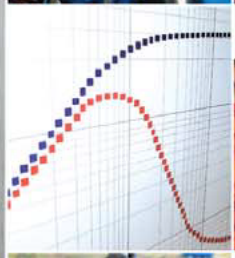


Testing Services Report

Oil Company : Origin Energy
Country : Australia
Field : Beetaloo
Well : Amungee NW-1H
Test Type : Extended Production Test
Test Date : 4 Oct to 30 Nov 2016
Report Number : 2016-10

Client Representative : [redacted]
Schlumberger Representative : [redacted]

origin energy

Schlumberger

Index

1. Job Information 4
1.1. Well Test Information 5
1.2. Equipment Information 6
1.3. Surface Layout 7
1.4. Piping and Instrumentation Diagram 8
1.5. Test Objectives 9
1.6. Test Procedure 10
1.7. Well Schematics 11
2. Sequence of Events 12
2.1. Sequence of Events 13
3. Summary of Results 64
3.1. Summary of Results 65
4. Main Results 66
4.1. FP #1 EPT Flow - Data 67
4.2. FP #2 EPT Flow - Data 136
4.3. FP #3 EPT Flow - Data 161
4.4. FP #4 EPT Flow - Data 254
4.5. FP #5 EPT Flow - Data 264
4.6. FP #6 EPT Flow - Data 267
4.7. FP #1 EPT Flow - Graph 290
4.8. FP #2 EPT Flow - Graph 291
4.9. FP #3 EPT Flow - Graph 292
4.10. FP #4 EPT Flow - Graph 293
4.11. FP #5 EPT Flow - Graph 294
4.12. FP #6 EPT Flow - Graph 295
5. Separator and Vx Results 296
5.1. FP #1 EPT Flow - Data 297
5.2. FP #2 EPT Flow - Data 358
5.3. FP #3 EPT Flow - Data 381
5.4. FP #4 EPT Flow - Data 462
5.5. FP #5 EPT Flow - Data 471

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Index

5.6. FP #6 EPT Flow - Data 473
5.7. FP #1 Separator - Graph (a) 493
5.8. FP #1 Separator - Graph (b) 494
5.9. FP #1 Separator - Graph (c) 495
5.10. FP #1 Separator - Graph (d) 496
5.11. FP #2 Separator - Graph 497
5.12. FP #3 Separator - Graph 498
5.13. FP #4 Separator - Graph 499
5.14. FP #5 Separator - Graph 500
5.15. FP #6 Separator - Graph 501
5.16. FP #1 Vx Flowing Condition - Graph 502
5.17. FP #1 Vx Flow Rates - Graph 503
5.18. FP #2 Vx Flowing Condition - Graph 504
5.19. FP #2 Vx Flow Rates - Graph 505
5.20. FP #3 Vx Flowing Condition - Graph 506
5.21. FP #3 Vx Flow Rates - Graph 507
5.22. FP #4 Vx Flowing Condition - Graph 508
5.23. FP #4 Vx Flow Rates - Graph 509
5.24. FP #5 Vx Flowing Condition - Graph 510
5.25. FP #5 Vx Flow Rates - Graph 511
5.26. FP #6 Vx Flowing Condition - Graph 512
5.27. FP #6 Vx Flow Rates - Graph 513

6. Annex 514

6.1. Gas Rate Formulas 515
6.2. Gas Sampling Information 517
6.3. Water Sampling Information 518
6.4. Nomenclature 519

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Schlumberger

origin energy

Job Information

Oil Company	: Origin Energy
Country	: Australia
Field	: Beetaloo
Well	: Amungee NW-1H
Test Type	: Extended Production Test
Test Date	: 4 Oct to 30 Nov 2016
Report Number	: 2016-10

Client Representative : [redacted]
Schlumberger Representative : [redacted]

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Well Test Information

General Information

Report Number	**: 2016-10**
Well	**: Amungee NW-1H**
Oil Company	**: Origin Energy**
Field	**: Beetaloo**
Country	**: Australia**
State / Province	**: Northen Territory**
Test Type	**: Extended Production Test**
Test Date	**: 4 Oct to 30 Nov 2016**
Rig / Installation	**: Rigless**
Client Representative	**:** [redacted]
Schlumberger Representative	**:** [redacted]

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Equipment Information

Downhole

Perforation	**: Wireline**

Well Head

Head	**: Wellhead**
Surface Safety Valve	**: SSV-GHC / 829**
ESD	**: ESD-CB / 846**
Choke	**: FMF-GHC / 850**

Multiphase Flowmeters

PhaseTester Vx size	**: 29 mm / 29**
PhaseTester Vx flow model	**: Wet Gas Mode**
PhaseTester Vx PVT model	**: Vx Fluids ID**

Separators

Separator A	**: SEP-C / 768**

Tanks

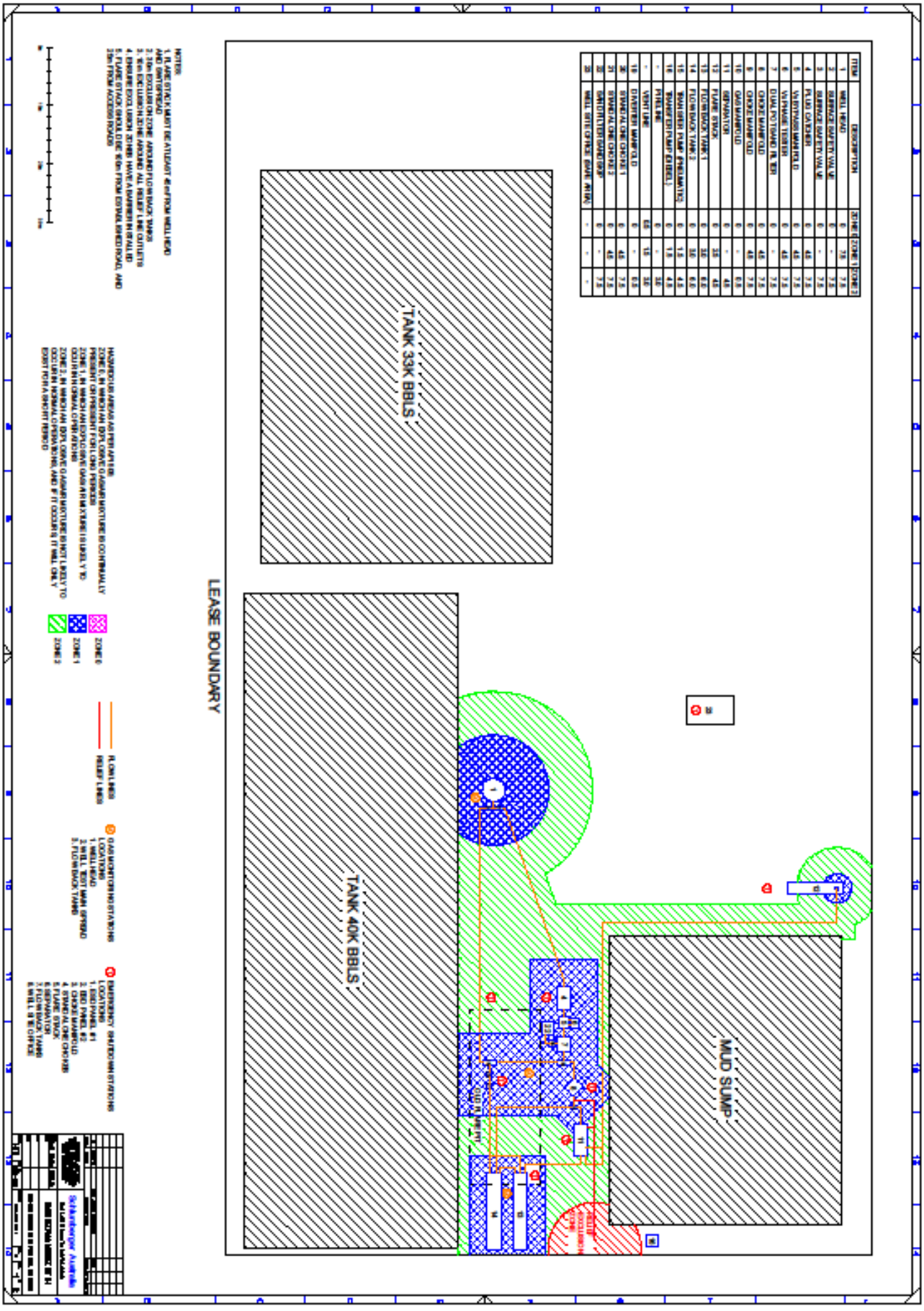
Tank	**: Grizzly / 01**
Tank	**: Grizzly / 02**

Other Equipment

Sand Filter / Desander	**: SFDP-ABB / 768**
Pump	**: PMP / 192264**

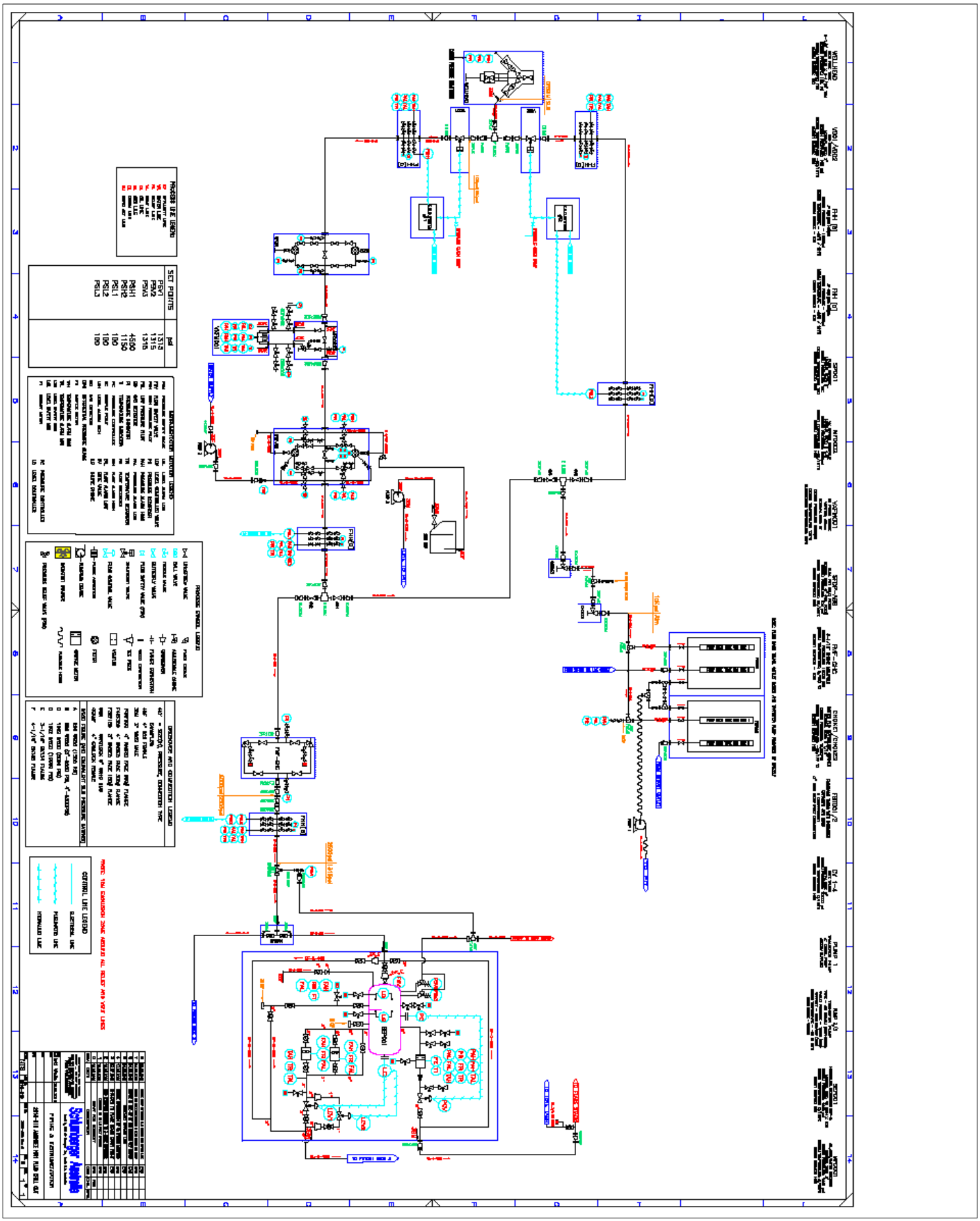
Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Surface Layout



Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Piping and Instrumentation Diagram



Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Test Objectives

The main objectives of the Extended Well Test operation are as follows :

1. Clean-up the well.
2. Conduct an extended production test to assess the deliverability of Amungee NW-1H.
3. Conduct an extended build-up post extendend production test to assess the reservoir.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Test Procedure

The test procedure following Clean Up Period is Extended Production Test as follows:

1. Open the well gradually and stay on 28/64" fixed choke.
2. Increase choke and flow the well on 32/64" fixed choke.
3. Increase choke and flow the well on 36/64" fixed choke.
4. Increase choke and flow the well on 40/64" fixed choke.
5. Observed the well behavior on fully open choke condition (128/64"). Decided to choke back to stay under critical flow condition for better rate measurement.
6. Decrease choke and flow the well on 48/64" fixed choke.
7. Shut in well on Wellhead Flow Wing valve for Extended Build Up.
8. Rig down Surface Well Test package.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Well Schematics

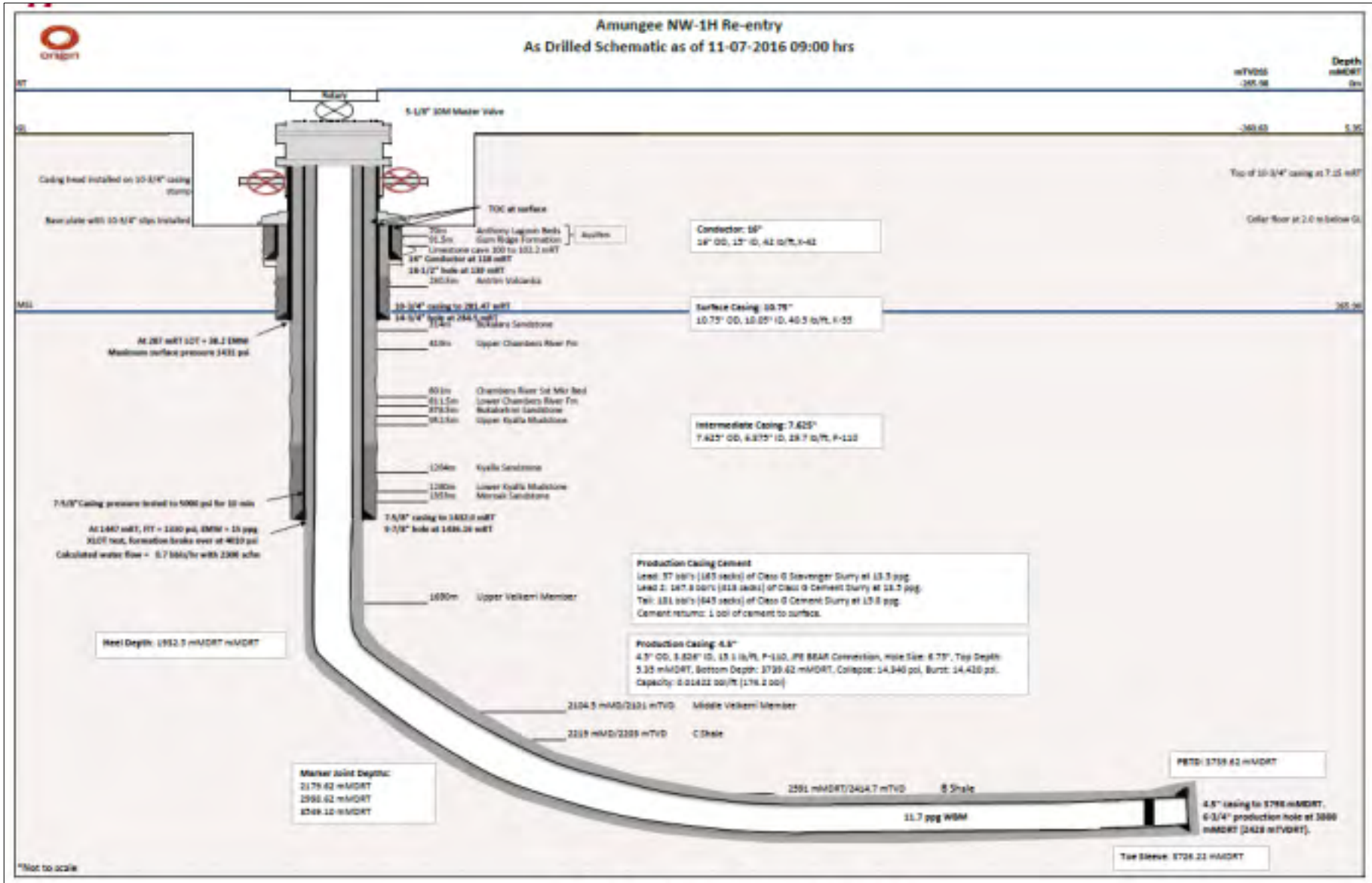


Figure 1: Current Downhole Diagram

Copyright © 2003-2014 Schlumberger. DART Version 2016.4

Schlumberger

origin energy

Sequence of Events

Oil Company	: Origin Energy
Country	: Australia
Field	: Beetaloo
Well	: Amungee NW-1H
Test Type	: Extended Production Test
Test Date	: 4 Oct to 30 Nov 2016
Report Number	: 2016-10

Client Representative [redacted]
Schlumberger Representative [redacted]

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

03-Oct-16 10:00:00	**Amungee NW-1H Extended Well Test Flow.**
03-Oct-16 10:00:00	Function tested high low pilots with Origin.
03-Oct-16 14:00:00	Function tested ESD stations: ESD panel 2 sec, Vx bypass manifold 2 sec, Choke manifold 2 sec, Separator 4 sec, Tank 5 sec, wellsite cabin 5 sec.
03-Oct-16 17:00:00	Rig commenced pressure testing X-mas tree.
03-Oct-16 18:30:00	Held PJSM prior to rigging up Slickline.
03-Oct-16 18:45:00	Slickline started rigging up.
03-Oct-16 20:00:00	Commenced pressure testing Slickline lubricator & BOP to 300/5000 psi. Good test.
03-Oct-16 20:30:00	Slickline RIH SB pulling tool.
03-Oct-16 21:15:00	Slickline POOH with Prong.
03-Oct-16 21:45:00	Slickline on surface. Rigged down Prong.
03-Oct-16 22:00:00	Slickline RIH SB pulling tool.
03-Oct-16 22:50:00	Slickline POOH with Plug.
03-Oct-16 23:25:00	Slickline on surface. Rigged down Plug.
03-Oct-16 23:45:00	Rigged down Slickline.
04-Oct-16 01:30:00	Rigged up upstream flowline from SSV to X-mas tree.
04-Oct-16 03:00:00	Commenced pressure testing upstream line against X-mas tree Master valve, Swab valve and SSV to 5000 psi for 5 mins. Good test.
04-Oct-16 09:30:00	Installed blind flange on X-mass tree.
04-Oct-16 10:53:00	Aligned valves on X-mas tree to to Choke manifold and opened Master valve to send pressure to Choke manifold.
04-Oct-16 10:54:00	**FP #1 Extended Production Test Flow on various choke sizes.**
04-Oct-16 10:54:00	Open well at Choke manifold on 8/64" adjustable choke through Seperator to Tank.
04-Oct-16 10:55:00	Increased adjustable choke to 10/64".
04-Oct-16 10:56:00	Put upstream lo-pilot on line.
04-Oct-16 11:30:00	Gas sample taken SG=0.638, CO2=3.2%, H2S=0ppm.
04-Oct-16 11:52:00	Rocked choke debris in choke.
04-Oct-16 12:00:00	Water slug on surface
04-Oct-16 12:02:00	Increased adjustable choke to 12/64".
04-Oct-16 12:05:00	Increased adjustable choke to 14/64".
04-Oct-16 12:45:00	BSW=100%, CO2=3.8%, H2S=0ppm.
04-Oct-16 13:10:00	Water slug on surface.
04-Oct-16 13:15:00	BSW=100% water, CO2=3.8%, H2S=0ppm, Gas SG=0.634.
04-Oct-16 14:00:00	BSW=100% water, pH=6, CO2=3.8%, H2S=0ppm, Gas SG=0.634.
04-Oct-16 14:00:00	Electrical Conductivity=20.64mS, Water Density=993.1 kg/m3 @36.7degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-354 mV2.
04-Oct-16 15:00:00	BSW=100% water, pH=6.5, CO2=4%, H2S=0ppm, Gas SG=0.636.
04-Oct-16 15:00:00	Electrical Conductivity=20.64mS, Water Density=1002.8 kg/m3 @30 degC, Dissolved Oxygen=0.8%S, Oxidation Reduction Potential=-382.6 mV2.
04-Oct-16 16:00:00	Took Isotube gas sample #16 @ 60 psi, 25 degC.
04-Oct-16 16:20:00	Increased adjustable choke to 15/64".
04-Oct-16 17:00:00	BSW=100% water, pH=7, CO2=3%, H2S=4ppm, Gas SG=0.638.
04-Oct-16 17:00:00	Electrical Conductivity=38.64mS, Water Density=1010.5 kg/m3 @29.4 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-211 mV2.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

04-Oct-16 17:50:00	Increased adjustable choke to 16/64".
04-Oct-16 18:00:00	BSW=100%, pH=7, CO2=3%, H2S=4ppm, Gas SG=0.638.
04-Oct-16 19:00:00	Started bleeding off casing pressure.
04-Oct-16 19:00:00	Electrical Conductivity=39.1mS, Water Density=1011.6 kg/m3 @27.6 degC, Dissolved Oxygen=0.3%S, Oxidation Reduction Potential=-198.3 mV2.
04-Oct-16 19:00:00	BSW=100%, pH=7, CO2=3%, H2S=2ppm, Gas SG=0.644.
04-Oct-16 19:03:00	Increased adjustable choke to 17/64".
04-Oct-16 19:10:00	Stopped bleeding off casing pressure.
04-Oct-16 20:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.644.
04-Oct-16 20:08:00	Increased adjustable choke to 18/64".
04-Oct-16 21:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.642.
04-Oct-16 21:00:00	Electrical Conductivity=22.24mS, Water Density=1016.3 kg/m3 @17 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-191.8 mV2.
04-Oct-16 21:06:00	Increased adjustable choke to 19/64".
04-Oct-16 22:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.642.
04-Oct-16 23:00:00	Gas Sample Taken CO2=2.5%, H2S=2ppm, Gas SG=0.642.
04-Oct-16 23:37:00	Decreased adjustable choke to 18/64".
04-Oct-16 23:38:00	Decreased adjustable choke to 17/64".
04-Oct-16 23:40:00	Decreased adjustable choke to 16/64".
04-Oct-16 23:42:00	Decreased adjustable choke to 15/64".
04-Oct-16 23:49:00	Started bleeding off casing pressure.
04-Oct-16 23:51:00	Decreased adjustable choke to 14/64".
05-Oct-16 00:00:00	Gas Sample Taken CO2=3%, H2S=2ppm, Gas SG=0.642.
05-Oct-16 00:18:00	Stopped bleeding off casing pressure.
05-Oct-16 00:36:00	Decreased adjustable choke to 13/64".
05-Oct-16 01:00:00	Gas Sample Taken CO2=3%, H2S=2ppm, Gas SG=0.643.
05-Oct-16 01:17:00	Decreased adjustable choke to 12/64".
05-Oct-16 02:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.643.
05-Oct-16 02:24:00	Decreased adjustable choke to 11/64".
05-Oct-16 03:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.
05-Oct-16 03:15:00	Decreased adjustable choke to 10/64".
05-Oct-16 04:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.
05-Oct-16 04:11:00	Increased adjustable choke to 12/64".
05-Oct-16 04:24:00	Decreased adjustable choke to 11/64".
05-Oct-16 04:37:00	Increased adjustable choke to 12/64".
05-Oct-16 05:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.
05-Oct-16 05:01:00	Increased adjustable choke to 13/64".
05-Oct-16 05:33:00	Increased adjustable choke to 14/64".
05-Oct-16 06:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.
05-Oct-16 06:34:00	Increased adjustable choke to 15/64".
05-Oct-16 07:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.
05-Oct-16 07:13:00	Increased adjustable choke to 16/64".
05-Oct-16 07:54:00	Switched flow to 16/64" fixed choke.
05-Oct-16 08:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.
05-Oct-16 09:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.
05-Oct-16 10:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

05-Oct-16 11:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.
05-Oct-16 12:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.
05-Oct-16 13:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640.
05-Oct-16 14:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640.
05-Oct-16 15:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640. Water Density=1012.5 kg/m3 @ 28.4degC.
05-Oct-16 16:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.
05-Oct-16 16:00:00	Took Isotube gas sample #17 @ 78 psi, 32 degC.
05-Oct-16 17:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.
05-Oct-16 17:17:00	Switched flow to 18/64" adjustable choke.
05-Oct-16 18:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.
05-Oct-16 18:24:00	Increased adjustable choke to 20/64".
05-Oct-16 19:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.
05-Oct-16 20:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.
05-Oct-16 20:07:00	Switched flow to 20/64" fixed choke.
05-Oct-16 20:30:00	Took ALS water samples set #2 at Separator.
05-Oct-16 21:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644. Water Density=1014.8 kg/m3 @ 21 degC.
05-Oct-16 21:54:00	**MP on 20/64" Fixed Choke.**
05-Oct-16 21:54:00	Lowered 1.75" orifice plate.
05-Oct-16 22:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.
05-Oct-16 23:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643.
06-Oct-16 00:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643. Water Density=1013.8 kg/m3 @ 24.2 degC.
06-Oct-16 01:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643. .
06-Oct-16 02:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.645. Water Density=1014.0 kg/m3 @ 23.4 degC.
06-Oct-16 03:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.645.
06-Oct-16 04:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644. Water Density=1013.9 kg/m3 @ 23.5 degC.
06-Oct-16 04:29:00	Lifted up orifice plate.
06-Oct-16 04:29:00	**End of MP.**
06-Oct-16 04:30:00	Switched flow to 20/64" adjustable choke.
06-Oct-16 04:31:00	Increased adjustable choke to 22/64".
06-Oct-16 05:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 06:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 06:00:00	Electrical Conductivity=40.28mS, Water Density=1014 kg/m3 @24.5 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-132.1 mV2.
06-Oct-16 08:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 08:01:00	Electrical Conductivity=37.7mS, Water Density=1012.3 kg/m3 @29.1 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-134.9.1 mV2.
06-Oct-16 09:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 09:03:00	Increased adjustable choke to 24/64".
06-Oct-16 10:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 10:29:00	Switched flow to 24/64" fixed choke.
06-Oct-16 11:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

06-Oct-16 12:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 12:00:00	Electrical Conductivity=47.3mS, Water Density=1014.3 kg/m3 @28.6 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-167.6 mV2.
06-Oct-16 13:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 14:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 15:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 16:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 16:00:00	Took Isotube gas sample #18 @ 84 psi, 39 degC.
06-Oct-16 16:01:00	Bled off casing pressure to 0 psi.
06-Oct-16 17:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 18:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 19:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 19:00:00	Electrical Conductivity=50.87mS, Water Density=1012 kg/m3 @32.8 degC, Dissolved Oxygen=2.4%S, Oxidation Reduction Potential=-220.9 mV2. Salinity=49000 ppm.
06-Oct-16 20:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
06-Oct-16 21:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.646. Water Density=1016.4 kg/m3 @23.3 degC
06-Oct-16 21:04:00	**MP on 24/64" Fixed Choke.**
06-Oct-16 21:04:00	Lowered 1.75" orifice plate.
06-Oct-16 22:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.646.
06-Oct-16 23:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.
06-Oct-16 23:00:00	Electrical Conductivity=43.09mS, Water Density=1015.7 kg/m3 @24.2 degC, Dissolved Oxygen=2.3%S, Oxidation Reduction Potential=-124.5 mV2. Salinity=49000 ppm.
07-Oct-16 00:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.
07-Oct-16 01:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.
07-Oct-16 01:00:00	Electrical Conductivity=42.54mS, Water Density=1015.7 kg/m3 @23.7 degC, Dissolved Oxygen=1.9%S, Oxidation Reduction Potential=-145.7 mV2. Salinity=41000 ppm.
07-Oct-16 02:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.
07-Oct-16 03:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
07-Oct-16 03:00:00	Electrical Conductivity=42.34mS, Water Density=1015.7 kg/m3 @22.8 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-173.6 mV2. Salinity=49000 ppm.
07-Oct-16 04:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
07-Oct-16 04:36:00	Lifted up orifice plate.
07-Oct-16 04:36:00	**End of MP**
07-Oct-16 04:37:00	Switched flow to 24/64" adjustable choke.
07-Oct-16 04:38:00	Increased adjustable choke to 26/64".
07-Oct-16 05:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
07-Oct-16 05:00:00	Electrical Conductivity=49.76mS, Water Density=1012.1 kg/m3 @31.6 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-218.1 mV2. Salinity=49000 ppm.
07-Oct-16 06:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.
07-Oct-16 08:05:00	Increased adjustable choke to 28/64"

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

07-Oct-16 08:20:00	BSW=100% (Trace Solids), Gas SG=0.644, Water Density=1012.6 kg/m3 @ 29.5 degC.
07-Oct-16 09:14:00	Switched flow to 28/64" fixed choke.
07-Oct-16 09:30:00	BSW=100% (Trace Solids), pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.
07-Oct-16 10:00:00	BSW=100% (Trace Solids), pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.
07-Oct-16 11:00:00	Electrical Conductivity=53.2mS, Water Density=1014.9 kg/m3 @27.3 degC, Dissolved Oxygen=0.3%S, Oxidation Reduction Potential=-266.7 mV2. Salinity=32000 ppm.
07-Oct-16 13:55:00	Set Separator porportional band to 25% to help stablize Separator during slugs pressure dropped moved porportional band back to 20%.
07-Oct-16 14:00:00	BSW=100% (0.01% Solids), pH=7, CO2=3%, H2S=3ppm, Gas SG=0.644.
07-Oct-16 14:00:00	Electrical Conductivity=54.6mS, Water Density=1014.5 kg/m3 @33.35 degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-267.4 mV2. Salinity=31000 ppm.
07-Oct-16 15:00:00	BSW=100% (Trace Solids); Gas SG 0.642, CO2 2.8%, H2S 3ppm.
07-Oct-16 15:00:00	Electrical Conductivity=51.78mS, Water Density=1012.6kg/m3 @33.7 degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-248mV2. Salinity=30000 ppm.
07-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.
07-Oct-16 16:00:00	Electrical Conductivity=51.8mS, Water Density=1012.1 kg/m3 @34.2 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-238mV2. Salinity=30000 ppm.
07-Oct-16 16:00:00	Took Isotube gas sample #19 @ 60 psi, 43 degC.
07-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.
07-Oct-16 17:00:00	Electrical Conductivity=51.8mS, Water Density=1012.1 kg/m3 @34.2 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-238mV2. Salinity=30000 ppm.
07-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.
07-Oct-16 18:20:00	Took ALS water samples set #3 at Separator. Electrical Conductivity=53.76mS, Water Density=1011.1 kg/m3 @35.3 degC.
07-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2.5%, H2S=3ppm.
07-Oct-16 19:00:00	Electrical Conductivity=49.67mS, Water Density=1011.2 kg/m3 @35.1 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-208.5mV2. Salinity=30000 ppm.
07-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2.5%, H2S=3ppm.
07-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.
07-Oct-16 21:00:00	Electrical Conductivity=46.56mS, Water Density=1013.9 kg/m3 @28 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-196.2mV2. Salinity=41000 ppm.
07-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.
07-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.
07-Oct-16 23:00:00	Electrical Conductivity=52.55mS, Water Density=1011.2 kg/m3 @34.2 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-175.8mV2. Salinity=42000 ppm.
08-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

08-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.
08-Oct-16 01:00:00	Electrical Conductivity=45.85mS, Water Density=1013.6 kg/m3 @27.7 degC, Dissolved Oxygen=0.8%S, Oxidation Reduction Potential=-246.1mV2. Salinity=41000 ppm.
08-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.
08-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.
08-Oct-16 03:00:00	Electrical Conductivity=44.22mS, Water Density=1014.9 kg/m3 @25.1 degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-250.6mV2. Salinity=41000 ppm.
08-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.
08-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.
08-Oct-16 05:00:00	Electrical Conductivity=42.96mS, Water Density=1015 kg/m3 @23.9 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-226.9mV2. Salinity=40000 ppm.
08-Oct-16 05:01:00	Switched flow to 28/64" adjustable choke.
08-Oct-16 05:02:00	Increased adjustable choke to 29/64".
08-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.
08-Oct-16 06:30:00	Bled off casing pressure to 0 psi.
08-Oct-16 08:00:00	Electrical Conductivity=53.35mS, Water Density=1013.5 kg/m3 @30.7 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-254.0mV2. Salinity=33000 ppm.
08-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.
08-Oct-16 10:00:00	Electrical Conductivity=52.49mS, Water Density=1012.2kg/m3 @33.2 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-266mV2. Salinity=30000 ppm.
08-Oct-16 10:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.
08-Oct-16 14:04:00	Switched flow to 28/64" fixed choke.
08-Oct-16 14:05:00	BSW=100% (0.05% solids), pH=7, Gas SG=0.644, CO2=2.5 %, H2S=3ppm.
08-Oct-16 14:48:00	Switched flow to 29/64" adjustable choke.
08-Oct-16 15:00:00	Electrical Conductivity=51.0mS, Water Density=1013.5kg/m3 @32.7 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-278mV2. Salinity=30000 ppm.
08-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 16:00:00	Electrical Conductivity=56.42mS, Water Density=1013.1kg/m3 @32.6 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-259mV2. Salinity=30000 ppm.
08-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 16:00:00	Took Isotube gas sample #20 @ 75 psi, 45 degC.
08-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 17:00:00	Electrical Conductivity=56.00mS, Water Density=1012.7kg/m3 @33.5 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-282mV2. Salinity=30000 ppm.
08-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 19:00:00	Electrical Conductivity=54.96mS, Water Density=1011.2kg/m3 @35 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-274.9mV2.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	Salinity=33000 ppm.
08-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 21:00:00	Electrical Conductivity=54.55mS, Water Density=1010.6kg/m3 @34.7 degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-291.8mV2. Salinity=33000 ppm.
08-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.
08-Oct-16 23:00:00	Electrical Conductivity=51.62mS, Water Density=1012.1kg/m3 @31.6 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-245.5mV2. Salinity=33000 ppm.
09-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 01:00:00	Electrical Conductivity=51.96mS, Water Density=1011.2kg/m3 @32.3 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-269.2mV2. Salinity=33000 ppm.
09-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3%, H2S=3ppm.
09-Oct-16 03:00:00	Electrical Conductivity=49.99mS, Water Density=1012.8kg/m3 @30 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-263.2mV2. Salinity=40000 ppm.
09-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3%, H2S=3ppm.
09-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 05:00:00	Electrical Conductivity=50.17mS, Water Density=1012.6kg/m3 @30.2 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-260.2mV2. Salinity=33000 ppm.
09-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 07:00:00	Electrical Conductivity=50.77mS, Water Density=1012.8kg/m3 @30.6 degC, Dissolved Oxygen=1.1%S, Oxidation Reduction Potential=-263.2mV2. Salinity=30000 ppm.
09-Oct-16 07:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 07:01:00	Pumped frac tank to pond.
09-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 09:00:00	Electrical Conductivity=51.2mS, Water Density=1012.7kg/m3 @30.8 degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-267mV2. Salinity=30000 ppm
09-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 10:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=3ppm.
09-Oct-16 11:00:00	Electrical Conductivity=48.9mS, Water Density=1012.6kg/m3 @32.7 degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-256mV2. Salinity=30000 ppm
09-Oct-16 11:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.
09-Oct-16 12:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=4.5ppm.
09-Oct-16 13:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.
09-Oct-16 14:00:00	Electrical Conductivity=55.8mS, Water Density=1012.7kg/m3 @33.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-268mV2. Salinity=30000 ppm

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

09-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.
09-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.
09-Oct-16 16:00:00	Electrical Conductivity=55.5mS, Water Density=1012.6kg/m3 @33.8degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-280mV2. Salinity=30000 ppm
09-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.
09-Oct-16 16:00:00	Took Isotube gas sample #21 @ 75 psi, 46 degC.
09-Oct-16 17:00:00	Pumped frac tank to pond.
09-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.
09-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.
09-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.
09-Oct-16 19:00:00	Electrical Conductivity=55.08mS, Water Density=1011.8kg/m3 @33.7degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-287.4mV2. Salinity=32000 ppm
09-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.
09-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3.5%, H2S=4ppm.
09-Oct-16 21:00:00	Electrical Conductivity=52.09mS, Water Density=1012.6kg/m3 @31degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-283.3mV2. Salinity=33000 ppm
09-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.
09-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.
09-Oct-16 23:00:00	Electrical Conductivity=49.31mS, Water Density=1013.5kg/m3 @28.6degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-272.6mV2. Salinity=33000 ppm
10-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.
10-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.
10-Oct-16 01:00:00	Electrical Conductivity=50.97mS, Water Density=1013kg/m3 @29.5degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-289.3mV2. Salinity=33000 ppm
10-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.
10-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.
10-Oct-16 03:00:00	Electrical Conductivity=50.06mS, Water Density=1013.1kg/m3 @29.2degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-288.4mV2. Salinity=36000 ppm
10-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.
10-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.
10-Oct-16 05:00:00	Electrical Conductivity=50.55mS, Water Density=1012.8kg/m3 @30degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-307.3mV2. Salinity=33000 ppm
10-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.
10-Oct-16 07:00:00	Electrical Conductivity=49.6mS, Water Density=1013.4kg/m3 @29.7degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-293.8mV2. Salinity=32000 ppm
10-Oct-16 07:00:00	Pumped Frac Tank into Pond
10-Oct-16 07:01:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3 %, H2S=4ppm.
10-Oct-16 08:00:00	BSW=100% (trace solids) , pH=7, Gas SG=0.644, CO2= 3 %, H2S=4ppm.
10-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=4ppm.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

10-Oct-16 10:00:00	Electrical Conductivity=54.6mS, Water Density=1012.8kg/m3 @29.7degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-303.0mV2. Salinity=32000 ppm
10-Oct-16 10:01:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3 %, H2S=3ppm.
10-Oct-16 10:23:00	WHP started to drop, well slugging
10-Oct-16 10:27:00	Pressure dropped to168psi, isolated Lo-Pilot to prevent ESD from tripping.
10-Oct-16 10:45:00	Rates stabilized, de-isolate lo-pilot, monitored well for further slugging.
10-Oct-16 10:46:00	BSW=100% (trace solids) , pH=7, Gas SG=0.644, CO2=2.5%, H2S=4ppm.
10-Oct-16 13:00:00	Electrical Conductivity=59mS, Water Density=1013.8kg/m3 @30.2degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-296.0mV2. Salinity=32000 ppm
10-Oct-16 13:10:00	WHP started to drop, well slugging.
10-Oct-16 13:15:00	Pressure dropped to127psi, isolated Lo-Pilot to prevent ESD from tripping.
10-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=3ppm.
10-Oct-16 15:00:00	Electrical Conductivity=61.1mS, Water Density=1014.5kg/m3 @29.3degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-291.0mV2. Salinity=30000 ppm
10-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.
10-Oct-16 16:00:00	Took Isotube gas sample #22 @ 65 psi, 46 degC.
10-Oct-16 17:00:00	Pumped Frac Tank into pond.
10-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.
10-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.
10-Oct-16 19:00:00	Electrical Conductivity=53.8mS, Water Density=1012.4kg/m3 @33degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-292.5mV2. Salinity=33000 ppm
10-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.
10-Oct-16 21:00:00	Electrical Conductivity=52.12mS, Water Density=1012.9kg/m3 @30.8degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-273.3mV2. Salinity=33000 ppm
10-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.
10-Oct-16 23:00:00	Electrical Conductivity=50.39mS, Water Density=1012.5kg/m3 @30.6degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-307.9mV2. Salinity=28000 ppm
11-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.
11-Oct-16 01:00:00	Electrical Conductivity=49.95mS, Water Density=1013.6kg/m3 @28.2degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-230.8mV2. Salinity=27000 ppm
11-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.
11-Oct-16 03:00:00	Electrical Conductivity=50.49mS, Water Density=1013.5kg/m3 @28.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-188.2mV2. Salinity=25000 ppm
11-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.
11-Oct-16 05:00:00	Electrical Conductivity=51.21mS, Water Density=1013.4kg/m3 @28.7degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-172.6mV2. Salinity=25000 ppm
11-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

11-Oct-16 09:00:00	Electrical Conductivity=54.3mS, Water Density=1013.4kg/m3 @29.3degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-180.6mV2. Salinity=27000 ppm
11-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=2.5ppm.
11-Oct-16 11:00:00	Electrical Conductivity=48mS, Water Density=1014.8kg/m3 @27.1degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-186.4mV2. Salinity=26000 ppm
11-Oct-16 12:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.
11-Oct-16 13:00:00	Electrical Conductivity=60mS, Water Density=1012.4kg/m3 @33.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-182mV2. Salinity=26000 ppm
11-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.
11-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.
11-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
11-Oct-16 16:00:00	Took Isotube gas sample #23 @ 65 psi, 46 degC.
11-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.
11-Oct-16 17:00:00	Electrical Conductivity=58.2mS, Water Density=1013.2kg/m3 @32.1degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-182.3mV2. Salinity=26000 ppm
11-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.
11-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.
11-Oct-16 19:00:00	Electrical Conductivity=54.9mS, Water Density=1012.8kg/m3 @31.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-158.9mV2. Salinity=25000 ppm
11-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
11-Oct-16 21:00:00	Electrical Conductivity=54.8mS, Water Density=1013.7kg/m3 @30.5degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-173.2mV2. Salinity=24000 ppm
11-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
11-Oct-16 23:00:00	Electrical Conductivity=53.2mS, Water Density=1013.8kg/m3 @29degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-151.7mV2. Salinity=22000 ppm
12-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
12-Oct-16 01:00:00	Electrical Conductivity=54.5mS, Water Density=1012.6kg/m3 @28.8degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-155.6mV2. Salinity=22000 ppm
12-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
12-Oct-16 03:00:00	Electrical Conductivity=52mS, Water Density=1014kg/m3 @27.6degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-173.2mV2. Salinity=19000 ppm
12-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
12-Oct-16 05:00:00	Electrical Conductivity=51.4mS, Water Density=1014.5kg/m3 @26.5degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-149.1mV2. Salinity=19000 ppm
12-Oct-16 06:56:00	WHP started to drop, well slugging.
12-Oct-16 07:06:00	Water at surface, collected sample BSW=100%, pH=7, Gas SG=0.65, CO2=4%, H2S=4ppm.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

12-Oct-16 07:06:00	Slug water results; BSW 100% Electrical Conductivity=54.1mS, Water Density=1014.6kg/m3 @26.1degC, Dissolved Oxygen=1.8%S, Oxidation Reduction Potential=-148.2mV2. Salinity=21600 ppm
12-Oct-16 07:20:00	Tried to capture another BSW, was not enough liquid at sample point. No sign of solids in sample.
12-Oct-16 07:22:00	Rates stabilized.
12-Oct-16 08:21:00	Pumped out frac tank to pond
12-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.
12-Oct-16 09:41:00	WHP started to drop, well slugging.
12-Oct-16 09:47:00	Water at surface, Collected Sample.
12-Oct-16 09:48:00	Slug water results: BSW 100% Electrical Conductivity=58.1mS, Water Density=1013.7kg/m3 @29.5degC, Dissolved Oxygen=1.9%S, Oxidation Reduction Potential=-156.7mV2. Salinity=20000 ppm
12-Oct-16 11:00:00	Instructed by client to bean up to 30/64" adjustable choke.
12-Oct-16 11:10:00	Lowerd Separator pressure to 60psig so that critical flow was maintained after choke was beaned up.
12-Oct-16 11:12:00	Increased Choke to 30/64" adjustable.
12-Oct-16 11:18:00	Re-adjusted separator pressure to 60psig.
12-Oct-16 12:52:00	Lower Separator Pressure to 60psig.
12-Oct-16 12:54:00	Lowerd Separator pressure to 50psig so that critical flow was maintained after choke was beaned up.
12-Oct-16 12:55:00	Increased choke to 32/64" adjustable.
12-Oct-16 13:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
12-Oct-16 13:22:00	Instructed by client to bean up to 40/64" adjustable choke.
12-Oct-16 13:50:00	Instructed by client to bean up to 64/64" adjustable choke.
12-Oct-16 13:53:51	Slowly beaned up choke to 56/64" adjustable in 2/64" increments.
12-Oct-16 14:24:00	Choke at 56/64" adjustable. Stopped increasing choke to maintain critical flow and separator operating pressure.
12-Oct-16 15:00:00	BSW=100% (trace solids), pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
12-Oct-16 15:01:00	Electrical Conductivity=61.5mS, Water Density=1014.6kg/m3 @33.0degC, Dissolved Oxygen=2.1%S, Oxidation Reduction Potential=-183.0mV2. Salinity=22000 ppm
12-Oct-16 16:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.
12-Oct-16 16:00:00	Took Isotube gas sample #23 @ 33psia 39degC
12-Oct-16 16:01:00	Electrical Conductivity 56.1 =mS, Water Density=1014.9kg/m3 @28.0degC, Dissolved Oxygen=2.4%S, Oxidation Reduction Potential=-183.0mV2. Salinity=21000 ppm
12-Oct-16 16:10:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.
12-Oct-16 16:40:00	WHP started to drop, well slugging
12-Oct-16 16:48:00	BSW=100% (trace solid), pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.
12-Oct-16 16:48:00	WHP restablized from water slug.
12-Oct-16 17:30:00	Dart crashed lost connection to Interact.
12-Oct-16 17:35:00	Re-established Dart and Interact connection.
12-Oct-16 17:41:00	Dart crashed lost connection to Interact.
12-Oct-16 17:43:00	Re-established Dart and Interact connection.
12-Oct-16 19:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=2%, H2S=4ppm.
12-Oct-16 19:00:00	Electrical Conductivity=57mS, Water Density=1013.1kg/m3 @30.3degC,

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-166.5mV2. Salinity=19000 ppm
12-Oct-16 21:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.
12-Oct-16 21:00:00	Electrical Conductivity=55.4mS, Water Density=1013.7kg/m3 @29.4degC, Dissolved Oxygen=2.0%S, Oxidation Reduction Potential=-173.2mV2. Salinity=18000 ppm
12-Oct-16 23:00:00	BSW=100% with trace of solids, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.
12-Oct-16 23:00:00	Electrical Conductivity=53.6mS, Water Density=1013.9kg/m3 @28.3degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-181.7mV2. Salinity=20000 ppm
12-Oct-16 23:44:00	Dart crashed lost connection to Interact.
12-Oct-16 23:46:00	Re-established Dart and Interact connection.
13-Oct-16 01:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.
13-Oct-16 01:00:00	Electrical Conductivity=53.9mS, Water Density=1014.1kg/m3 @27.6degC, Dissolved Oxygen=2.3%S, Oxidation Reduction Potential=-180.3mV2. Salinity=20000 ppm
13-Oct-16 02:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.
13-Oct-16 03:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.
13-Oct-16 03:00:00	Electrical Conductivity=51.9mS, Water Density=1014.5kg/m3 @26.4degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-182.0mV2. Salinity=20000 ppm
13-Oct-16 05:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.
13-Oct-16 05:00:00	Electrical Conductivity=52.0mS, Water Density=1015.8kg/m3 @24.6degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-176.2mV2. Salinity=19000 ppm
13-Oct-16 06:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.
13-Oct-16 07:00:00	Electrical Conductivity=52.0mS, Water Density=1014.7kg/m3 @26.0degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-172.02mV2. Salinity=19000 ppm
13-Oct-16 07:00:00	Reviewed rates over night, VX showed significant increase in water rate since bean up, tank straps showed no significant increase.
13-Oct-16 07:15:00	Uploaded flow periods and discussed rates issue with VX technical expert.
13-Oct-16 08:00:00	BSW=100% small trace solids, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.
13-Oct-16 09:00:00	Electrical Conductivity=51.3mS, Water Density=1014.6kg/m3 @25.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-155.2mV2. Salinity=19000 ppm
13-Oct-16 09:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.
13-Oct-16 10:00:00	Electrical Conductivity=56mS, Water Density=1013.8kg/m3 @32.5degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-179mV2. Salinity=17600 ppm
13-Oct-16 10:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.
13-Oct-16 10:14:00	VX technical expert concluded that VX was out of range, started to discuss solutions with town.
13-Oct-16 11:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.
13-Oct-16 11:00:00	Electrical Conductivity=57.6mS, Water Density=1014.5kg/m3 @32.8degC,

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-143.2mV2. Salinity=17000 ppm
13-Oct-16 13:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
13-Oct-16 13:00:00	Electrical Conductivity=58mS, Water Density=1013.9kg/m3 @32degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-152.2mV2. Salinity=16000 ppm
13-Oct-16 14:19:49	Started choking back to 18/64" adjustable in 2/64" increments to put VX back in range.
13-Oct-16 14:40:46	Choke at 18/64" adjustable, WHP 402 psia.
13-Oct-16 14:41:00	Increased separator pressure to 72 psia.
13-Oct-16 14:54:00	Stopped logging with VX, started import of wet gas license.
13-Oct-16 14:56:00	Restarted logging with VX.
13-Oct-16 16:00:00	Took Isotube gas sample #24 at separator.
13-Oct-16 16:37:00	WHP started to drop, well slugging.
13-Oct-16 16:47:00	Water slug at surface.
13-Oct-16 16:50:00	Gas at surface.
13-Oct-16 19:00:00	Not enough water at sample point to collect BSW.
13-Oct-16 19:00:00	Gas SG=0.65, CO2=3%, H2S=2ppm.
13-Oct-16 19:17:00	Dart crashed lost connection to Interact.
13-Oct-16 19:20:00	Re-established Dart and Interact connection.
13-Oct-16 21:00:00	BSW=100% dry, pH=7, Gas SG=0.645, CO2=3%, H2S=2ppm.
13-Oct-16 21:00:00	Electrical Conductivity=55.4mS, Water Density=1019.8kg/m3 @19degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-151.7mV2. Salinity=16000 ppm
13-Oct-16 23:00:00	BSW=100% dry, pH=7, Gas SG=0.645, CO2=3%, H2S=2ppm.
13-Oct-16 23:00:00	Electrical Conductivity=55.4mS, Water Density=1019.5kg/m3 @16.1degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-151.7mV2. Salinity=17000 ppm
14-Oct-16 00:21:00	**MP on 18/64" adjustable choke.**
14-Oct-16 00:21:00	Dropped orifice plate 1.500" diameter.
14-Oct-16 00:35:00	BSW=100% dry, pH=7, Gas SG=0.644, CO2=4%, H2S=4ppm.
14-Oct-16 00:57:00	**End of MP.**
14-Oct-16 00:58:00	Lifted 1.500" Orifice Plate.
14-Oct-16 01:00:00	BSW= dry, no solids, pH=7, Gas SG=0.644, CO2=4%, H2S=4ppm.
14-Oct-16 01:00:00	Electrical Conductivity=42.8mS, Water Density=1018.2kg/m3 @16.1degC, Dissolved Oxygen=1.7%S, Oxidation Reduction Potential=-142.5mV2. Salinity=16500 ppm
14-Oct-16 03:00:00	BSW= 100%, pH=7, Gas SG=0.642, CO2=4%, H2S=4ppm
14-Oct-16 03:00:00	Electrical Conductivity=47mS, Water Density=1015.7kg/m3 @22.3degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-152.6mV2. Salinity=17000 ppm
14-Oct-16 05:00:00	Gas SG=0.645, CO2=4%, H2S=4ppm.
14-Oct-16 05:00:00	Not enough water at choke sample point to collect BS&W.
14-Oct-16 05:08:00	Dart crashed lost connection to Interact.
14-Oct-16 05:11:00	Re-established Dart and Interact connection.
14-Oct-16 06:00:00	CO2=3%, H2S=4ppm, BSW dry, no solids.
14-Oct-16 07:00:00	Gas SG=0.644, BS&W dry no solids.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

14-Oct-16 07:44:00	Started Increaseing choke from 18/64" adjustable to maintain 300 psi on WHP in 2/64" incraments (as per WSR instruction).
14-Oct-16 07:53:00	Choke set at 26/64" adjustable to maintain 300 psi on WHP.
14-Oct-16 08:00:00	BSW dry, no solids.
14-Oct-16 09:00:00	Gas SG=0.644, BSW=100%, CO2=3.5%, H2S=4.5ppm.
14-Oct-16 09:00:00	Electrical Conductivity=51.1mS, Water Density=1013.3kg/m3 @28.2degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-159.5mV2.
14-Oct-16 10:00:00	BSW=100%, Gas SG 0.644.
14-Oct-16 11:00:00	Pumped out 65.8bbl from tank to pond.
14-Oct-16 11:00:00	Electrical Conductivity=53.7mS, Water Density=1015.4kg/m3 @26.1degC, Dissolved Oxygen=1.7%, Oxidation Reduction Potential=-163.2mV2.
14-Oct-16 11:00:00	BSW 100% no solids.
14-Oct-16 12:00:00	Electrical Conductivity=54.6mS, Water Density=1015.7kg/m3 @26.5degC, Dissolved Oxygen=1.7%S, Oxidation Reduction Potential=-160.1mV2.
14-Oct-16 12:00:00	BSW dry no solids, Gas SG=0.644, CO2=4%, H2S=5ppm
14-Oct-16 12:30:00	**MP on 26/64" adjustable choke.**
14-Oct-16 12:30:00	Lowered 1.75" orifice plate, checked for carry over, gas SG 0.644.
14-Oct-16 13:00:00	BSW dry no solids.
14-Oct-16 13:15:00	Raised 1.75" orifice plate.
14-Oct-16 13:15:00	**End of MP.**
14-Oct-16 14:00:00	Electrical Conductivity=53.7mS, Water Density=1015.6kg/m3 @27.2degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-172mV2.
14-Oct-16 14:10:00	BSW=100% no solids.
14-Oct-16 15:00:00	BSW=100% small trace of solids, H2S 4.5ppm, CO2 4%.
14-Oct-16 15:25:00	Lower Seperator Pressure to 36 psia.
14-Oct-16 15:32:00	Started to increase choke in 2/64" increments to maintain approximentely 100 psi WHP (as per WSR instruction).
14-Oct-16 15:36:00	Flare went out due to wind.
14-Oct-16 15:40:00	Re-lit flare then continued increasing choke.
14-Oct-16 16:20:00	Increased Choke to 52/64" adjustable, WHP 111.8 psia.
14-Oct-16 16:30:00	Took IsoTube Sample #26 from Separator at 32.1 psi 38.4 degC.
14-Oct-16 16:30:00	BSW=100% no solids, H2S 4ppm, CO2 2.5%.
14-Oct-16 17:00:00	Pumped out 39.25 bbls of fluid from frac tank to pond.
14-Oct-16 17:00:00	BSW=100% no solids.
14-Oct-16 18:00:00	BSW=100% no solids, H2S 4ppm CO2 3%.
14-Oct-16 18:47:00	Well started slugging.
14-Oct-16 19:00:00	BSW=100% no solids, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.
14-Oct-16 19:00:00	Electrical Conductivity=53.7mS, Water Density=1014.8kg/m3 @27.0degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-178.0mV2. Salinity=18000 ppm.
14-Oct-16 20:00:00	BSW 100% no solids.
14-Oct-16 21:00:00	BSW 100% no solids, pH=7, Gas SG=0.655, CO2=3.75%, H2S=4ppm.
14-Oct-16 21:00:00	Electrical Conductivity=52.3mS, Water Density=1014.3kg/m3 @27.8degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-175.3mV2. Salinity=18000 ppm.
14-Oct-16 22:00:00	BSW 100% no solids.
14-Oct-16 23:00:00	BSW 100% no solids, pH=7, Gas SG=0.65.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

14-Oct-16 23:00:00	Electrical Conductivity=50.8mS, Water Density=1014.7kg/m3 @26.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-157.8mV2. Salinity=28000 ppm.
15-Oct-16 00:00:00	BSW 100% no solids, 4ppm H2S 3.5% CO2 4%.
15-Oct-16 01:00:00	Electrical Conductivity=50.4mS, Water Density=1014.8kg/m3 @27degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-155.2mV2. Salinity=30000 ppm.
15-Oct-16 01:00:00	BSW 100% no solids, pH=7, Gas SG=0.65.
15-Oct-16 02:00:00	BSW 100% no solids.
15-Oct-16 03:00:00	BSW 100% no solids, pH=7, Gas SG=0.65, CO2=4%, H2S=5ppm.
15-Oct-16 03:00:00	Electrical Conductivity=49.3mS, Water Density=1015.3kg/m3 @23.6degC, Dissolved Oxygen=0.5%S, Oxidation Reduction Potential=-162.7mV2. Salinity=30000 ppm.
15-Oct-16 04:00:00	BSW 100% no solids.
15-Oct-16 04:43:00	Lowered 2.000" Orifice Plate.
15-Oct-16 04:44:00	**MP on 52/64" adjustable choke.**
15-Oct-16 04:48:01	BSW 100% clean, pH=7, Gas SG=0.65, CO2=4%, H2S=5ppm.
15-Oct-16 05:20:00	Lifted 2.000" Orifice Plate.
15-Oct-16 05:20:00	**End of MP.**
15-Oct-16 05:42:00	Decreased choke in 2/64" increments until 300 psi on WHP.
15-Oct-16 06:00:00	Choked down to 24/64" adjustable.
15-Oct-16 06:00:00	BSW 100% no solids, H2S 4ppm, CO2 3%.
15-Oct-16 07:00:00	BSW dry, no solids.
15-Oct-16 08:00:00	BSW dry, no solids.
15-Oct-16 09:00:00	BSW 100% no solids, Gas SG 0.644, H2S 4ppm, CO2 2.5%.
15-Oct-16 09:02:00	WHP started to drop, well slugging.
15-Oct-16 09:11:00	Water on surface, collected sample of slug.
15-Oct-16 09:13:00	Gas on surface, slug passing.
15-Oct-16 09:13:00	Slug sample BSW 100% pH 7 Electrical Conductivity=57.5mS, Water Density=1015.5kg/m3 @ 23.1degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-171.4mV2.
15-Oct-16 09:45:00	WHP unstable, well slugging.
15-Oct-16 10:00:00	BSW dry, no solids.
15-Oct-16 11:00:00	BSW dry, no solids, Gas SG 0.643.
15-Oct-16 11:45:00	Switched to 24/64 fixed choke.
15-Oct-16 11:55:00	Removed adjustable choke for inspection, found choke tip was eroded, swapped out adjustable choke.
15-Oct-16 12:00:00	BSW dry, no solids.
15-Oct-16 12:06:00	Well head pressure dropping, well slugging.
15-Oct-16 12:10:00	Wind picked up, increased propane to gas pilot to assist with keeping flare lit.
15-Oct-16 13:00:00	BSW 100% no solids, Gas SG 0.643, H2S 4.5ppm CO2 4%.
15-Oct-16 13:00:00	Pumped 53.9 bbls from tank to pond.
15-Oct-16 13:00:00	pH 7 Electrical Conductivity= 55.7mS@26.4degC, Water Density=1015.2kg/m3 @ 23.8degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-168.4mV2, Salinity 33000ppm.
15-Oct-16 14:00:00	BSW dry, no solids.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

15-Oct-16 15:00:00	BSW dry, no solids.
15-Oct-16 15:00:00	Switched to 24/64" adjustable choke.
15-Oct-16 15:03:00	Increased to 28/64" adjustable choke. Installed 28/64" choke bean.
15-Oct-16 15:04:00	Switched to 28/64" fixed choke.
15-Oct-16 15:05:00	BSW dry no solids.
15-Oct-16 15:14:00	Dart crashed lost connection to Interact.
15-Oct-16 15:17:00	Re-established Dart and Interact connection.
15-Oct-16 15:22:00	WHP unstable, well slugging.
15-Oct-16 16:00:00	Took Isotube sample #27 from Separator at 71psia, gas SG 0.643, 39.1 degC.
15-Oct-16 16:00:00	BSW = Dry no Solids CO2 4% H2S 4ppm.
15-Oct-16 16:56:00	WHP dropping, well slugging.
15-Oct-16 17:00:00	Water at surface, captured sample.
15-Oct-16 17:02:00	BSW 100% with trace of solids.
15-Oct-16 17:02:00	Slug Results =PH7 Electrical Conductivity= 52.4mS@29.6degC, Water Density=1014.2kg/m3 @ 28.8degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-176.2mV2, Salinity 33000ppm.
15-Oct-16 18:00:00	BSW dry no solids CO2 4% H2S 4ppm.
15-Oct-16 19:00:00	BSW dry no solids Gas SG=0.65.
15-Oct-16 20:00:00	BSW dry no solids.
15-Oct-16 21:00:00	BSW dry no solids Gas SG=0.65 CO2 4% H2S 4ppm.
15-Oct-16 22:00:00	BSW dry no solids.
15-Oct-16 22:21:00	WHP dropped, well started slugging.
15-Oct-16 23:00:00	BSW dry no solids Gas S.G.=0.646.
16-Oct-16 00:00:00	CO2 3% H2S 4ppm.
16-Oct-16 01:00:00	BSW dry no solids Gas SG=0.65 CO2 3% H2S 4ppm.
16-Oct-16 01:00:00	Pumped 60.25 bbls to pond.
16-Oct-16 02:00:00	BSW dry, no solids.
16-Oct-16 03:00:00	BSW dry no solids Gas SG=0.648 CO2 3% H2S 4ppm.
16-Oct-16 04:00:00	Electrical Conductivity=47.7mS, Water Density=1019.1kg/m3 @17.4degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-179.5mV2. Salinity=33000 ppm.
16-Oct-16 04:00:00	BSW=100% with traces of solids.
16-Oct-16 05:00:00	BSW dry no solids Gas SG=0.65.
16-Oct-16 07:00:00	BSW dry, no solids.
16-Oct-16 08:00:00	BSW dry, no solids, Gas SG 0.65.
16-Oct-16 09:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5%.
16-Oct-16 10:00:00	BSW dry, no solids, Gas SG 0.648.
16-Oct-16 11:00:00	BSW dry, no solids, gas SG 0.65.
16-Oct-16 11:15:00	Lowered 1.500" Orifice Plate
16-Oct-16 11:28:30	DART crashed, re-boot system
16-Oct-16 11:29:56	System back online, reconnected interact
16-Oct-16 11:35:00	Lifted 1.500" Orifice plate, separator too unstable for metering.
16-Oct-16 11:36:00	Adjusted proportional band on separator to 15%, monitor to se if stabalizes separator
16-Oct-16 12:00:00	Pumped 61.6 bbl from tank to pond.
16-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

16-Oct-16 13:00:00	BSW dry, no solids, Gas SG 0.65.
16-Oct-16 14:00:00	BSW dry, no solids.
16-Oct-16 15:00:00	BSW dry, no solids, Gas SG = 0.65.
16-Oct-16 16:00:00	Isotube sample #28 taken from Separator at Gas SG 0.650 Temp 37.9 degC Press 69.5 psia.
16-Oct-16 16:00:00	BSW dry, no solids., H2S 5ppm, CO2 4%, Gas SG= 0.648.
16-Oct-16 16:10:00	Lowered 1.750" orifice plate.
16-Oct-16 16:23:00	DART crashed when starting metering period.
16-Oct-16 16:25:00	**MP on 28/64" Fixed Choke.**
16-Oct-16 16:25:00	DART back online, reconnected interact.
16-Oct-16 17:00:00	BSW dry, no solids.
16-Oct-16 18:00:00	BSW dry, no solids, H2S 5ppm, CO2 4% Gas SG=0.65.
16-Oct-16 19:00:00	BSW dry, no solids, Gas SG=0.65.
16-Oct-16 20:00:00	BSW dry, no solids.
16-Oct-16 21:00:00	BSW dry, no solids, H2S 4.5ppm, CO2 4% Gas SG=0.644.
16-Oct-16 22:00:00	BSW dry, no solids.
16-Oct-16 23:00:00	BSW dry, no solids, Gas SG=0.65.
16-Oct-16 23:46:00	WHP dropping, well starting to slug
16-Oct-16 23:48:00	Lifted 1.750" Orifice Plate due to slugging.
16-Oct-16 23:48:00	**End of MP.**
17-Oct-16 00:00:00	Pumped 56.58 bbls from tank to the pond.
17-Oct-16 00:00:00	Sample from slug: Electrical Conductivity=53.0mS, Water Density=1013.6kg/m3 @28.4degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-127.5mV2. Salinity=37000 ppm.
17-Oct-16 00:00:00	Took gas sample H2S 5ppm, CO2 3%.
17-Oct-16 01:00:00	BSW dry, no solids, Gas SG=0.646.
17-Oct-16 02:00:00	BSW dry, no solids.
17-Oct-16 03:00:00	BSW dry, no solids, Gas SG=0.65 H2S 4ppm, CO2 4%.
17-Oct-16 04:00:00	BSW dry, no solids.
17-Oct-16 04:46:00	Lowered 1.750" Orifice Plate.
17-Oct-16 05:34:00	Well slugging, lifted 1.750" orifice plate.
17-Oct-16 05:35:00	Carrier plate jammed inside canalta chamber.
17-Oct-16 05:55:00	Bypass separator and bleed off pressure, flare watch in place.
17-Oct-16 06:00:00	Drained water from condensate trap on flare stack.
17-Oct-16 06:05:00	Opened canalta to check orifice plate.
17-Oct-16 06:19:00	Orifice plate carrier out and carrying out inspection of teeth.
17-Oct-16 06:24:00	Putting separator back online and closing bypass.
17-Oct-16 07:16:00	WHP dropping, well slugging.
17-Oct-16 07:16:00	Captured sample of slug, BSW 100% no solids.
17-Oct-16 07:30:00	Sample from slug: Electrical Conductivity=52.7mS@24.4dec, Water Density=1013.6kg/m3 @27.3degC, Dissolved Oxygen=1.1%S, Oxidation Reduction Potential=-135.0mV2. Salinity=31000 ppm.
17-Oct-16 08:30:00	WHP started to drop, well slugging.
17-Oct-16 09:00:00	BSW dry, no solids, H2S 5ppm, C02 4%, Gas SG 0.648.
17-Oct-16 09:13:53	DART crashed, rebooted system.
17-Oct-16 09:15:29	DART back online, reconnected interact.
17-Oct-16 09:40:00	Took ALS water sample from separator, sample EC 53.3mS@32.6degC,

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	pH7, water cumulative = 8849 bbls.
17-Oct-16 10:00:00	BSW dry, no solids.
17-Oct-16 11:00:00	BSW dry, no soilds, Gas SG= 0.648.
17-Oct-16 11:15:00	Pumped 60.5 bbls from tank to pond.
17-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%. SG= 0.648.
17-Oct-16 13:00:00	BSW dry, no solids.
17-Oct-16 13:22:00	**MP on 28/64" Fixed Choke.**
17-Oct-16 13:22:00	Lowered 1.75" Orifice Plate.
17-Oct-16 14:00:00	BSW dry, no solids, Gas SG= 0.648.
17-Oct-16 14:01:00	Carry over check at barton scrubber.
17-Oct-16 14:13:09	Computer crashed, disconnected and rebooted.
17-Oct-16 14:18:58	Reconnected to Interact.
17-Oct-16 15:00:00	BSW dry, no solids
17-Oct-16 16:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5% Gas SG0.648.
17-Oct-16 16:01:00	Took Isotube sample #28 from Separator at 94psia 36.7degC.
17-Oct-16 17:41:00	Dart crashed lost connection to Interact.
17-Oct-16 17:45:00	DART back online, reconnected to interact.
17-Oct-16 18:00:00	BSW dry, no solids CO2 3.5% H2S 5ppm Gass SG=0.646.
17-Oct-16 19:00:00	BSW dry, no solids.
17-Oct-16 19:28:00	Dart crashed lost connection to Interact.
17-Oct-16 19:31:00	DART back online, reconnected interact.
17-Oct-16 20:00:00	BSW dry, no solids Gas SG=0.646.
17-Oct-16 21:00:00	BSW dry, no solids CO2 3% H2S 4.5ppm.
17-Oct-16 21:42:00	Interact no longer updating data, stopped and restarted OPC causing DART to crash.
17-Oct-16 21:44:00	DART back online, Interact transmitting data again.
17-Oct-16 22:00:00	BSW dry, no solids.
17-Oct-16 23:00:00	BSW dry, no solids Gas SG=0.648.
18-Oct-16 00:00:00	BSW dry, no solids CO2 2.5% H2S 4ppm.
18-Oct-16 00:00:00	Pumped 61.18 bbls to the pond.
18-Oct-16 01:00:00	BSW dry, no solids Gas SG=0.646.
18-Oct-16 02:00:00	BSW dry, no solids.
18-Oct-16 03:00:00	BSW dry, no solids Gas SG=0.65 CO2 2.5% H2S 3.5ppm.
18-Oct-16 04:00:00	BSW dry, no solids.
18-Oct-16 05:00:00	BSW dry, no solids Gas SG=0.648.
18-Oct-16 05:45:00	Investigating possible causes of gas rate fluctuation.
18-Oct-16 06:13:00	**End of MP.**
18-Oct-16 06:18:00	Bypassed and bled off separator to check the orifice plate and chamber.
18-Oct-16 06:25:00	Separator pressure fully bled off.
18-Oct-16 06:36:00	Putting separator back online, closing bypass.
18-Oct-16 06:40:00	Separator back online.
18-Oct-16 06:53:00	Checking line up to put sand filter online.
18-Oct-16 06:55:00	Sand filter online.
18-Oct-16 06:55:00	Preparing to open new DART file and reconnect to InterAct.
18-Oct-16 06:55:00	Pass flow through sand filter.
18-Oct-16 07:00:00	BSW dry, trace of solids.
18-Oct-16 07:41:39	New DART file online, streaming data to InterAct.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

18-Oct-16 08:00:00	BSW dry, trace of solids.
18-Oct-16 09:00:00	BSW=100% no solids, H2S 5ppm, CO2 4%.
18-Oct-16 09:52:00	InterACT back online.
18-Oct-16 10:00:00	BSW dry, no solids.
18-Oct-16 11:00:00	BSW dry, no solids.
18-Oct-16 11:15:00	Pumped 56.81 bbls from tank to pond.
18-Oct-16 12:00:00	BSW dry, no solids, Gas SG 0.648.
18-Oct-16 13:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.
18-Oct-16 13:20:00	Lowered 1.75" Orifice Plate
18-Oct-16 13:21:00	**MP on 28/64" Fixed Choke.**
18-Oct-16 14:00:00	BSW dry, no solids, Gas SG= 0.648.
18-Oct-16 14:07:00	WHP started decreasing, well slugging.
18-Oct-16 14:09:00	Lifted up orifice plate from separator during slugging.
18-Oct-16 14:09:00	**End of MP.**
18-Oct-16 14:16:00	Slug on surface, capture sample, BSW 100%
18-Oct-16 14:16:00	Slug Results=Electrical Conductivity=63.78mS@33.7DegC,Water Density=1015.3kg/m3@27.1DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-180.9mV2, Salinity=23100ppm.
18-Oct-16 15:00:00	BSW=100%,
18-Oct-16 16:00:00	BSW=100% trace of solids, H2S 5ppm, CO2 4%.
18-Oct-16 16:00:00	Slug Results=Electrical Conductivity=55.5mS@25.8DegC,Water Density=1015.3kg/m3@27.3DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-177.5mV2, Salinity=37000ppm.
18-Oct-16 16:01:00	Took Isotube sample from separator at press 82.9psia, temp 35.6degC, Gas SG 0.648.
18-Oct-16 17:00:00	BSW dry, no solids.
18-Oct-16 17:34:00	Lowered 1.75" Orifice Plate, gas SG=0.648.
18-Oct-16 17:35:00	**MP on 28/64" Fixed Choke.**
18-Oct-16 18:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.
18-Oct-16 19:00:00	BSW dry, no solids.
18-Oct-16 20:00:00	Electrical Conductivity=52.1mS@23.2DegC,Water Density=1015.7kg/m3@25.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-198.6mV2, Salinity=37000ppm.
18-Oct-16 20:00:00	BSW=100% no solids.
18-Oct-16 21:00:00	BSW dry, no solids, H2S 6ppm, CO2 3%.
18-Oct-16 21:30:00	GasDP has started fluctuating affecting GasQA, this is a recurring event as shown from the night of the 17th October where the same effects occured.
18-Oct-16 22:00:00	BSW dry, no solids.
18-Oct-16 23:00:00	Electrical Conductivity=52.1mS@23.2DegC,Water Density=1015.7kg/m3@25.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-198.6mV2, Salinity=37000ppm
18-Oct-16 23:00:00	BSW=100% no solids, Gas SG=0.648
19-Oct-16 00:00:00	BSW=100% no solids, H2S 5.5ppm, CO2 4%
19-Oct-16 00:01:00	Pumped 66.7 bbls from tank to the pond.
19-Oct-16 01:00:00	BSW dry, no solids, Gas SG=0.646.
19-Oct-16 02:00:00	BSW dry, no solids.
19-Oct-16 03:00:00	BSW dry, no solids, H2S 6ppm, CO2 4%, Gas SG=0.646.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

19-Oct-16 03:00:00	BSW dry, no solids.
19-Oct-16 04:00:00	BSW=100%, no solids.
19-Oct-16 05:00:00	BSW dry, no solids.
19-Oct-16 05:40:00	Checked for carry over at barton scrubbers.
19-Oct-16 06:45:00	Checked for carry over at barton scrubbers.
19-Oct-16 07:00:00	BSW=100%, trace of solids.
19-Oct-16 08:01:00	Took ALS water sample from separator.
19-Oct-16 09:00:00	Gas SG=0.646.
19-Oct-16 09:10:00	Checked for carry over at barton scrubbers.
19-Oct-16 10:10:18	Checked for carry over at barton scrubbers.
19-Oct-16 10:46:23	Checked for carry over at barton scrubbers.
19-Oct-16 11:00:00	Gas SG=0.646.
19-Oct-16 11:06:03	Checked for carry over at barton scrubbers.
19-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5%.
19-Oct-16 12:02:00	Checked for carry over at barton scrubbers.
19-Oct-16 13:08:00	Checked for carry over at barton scrubbers.
19-Oct-16 13:08:00	Gas SG=0.646.
19-Oct-16 14:03:00	Checked for carry over at barton scrubbers.
19-Oct-16 14:10:00	Pumped out 59 bbls from tank to pond.
19-Oct-16 15:00:00	Gas SG=0.646.
19-Oct-16 15:38:48	WHP dropped, well slugging.
19-Oct-16 15:40:00	Lifted 1.75" Orifice Plate.
19-Oct-16 15:40:00	**End of MP.**
19-Oct-16 15:49:24	Water on surface, captured sample, BSW=100% with traces of solids.
19-Oct-16 15:58:00	Slug water results= Electrical Conductivity=68.78mS@37.3DegC,Water Density=1012.9kg/m3@34.6DegC, Dissolved Oxygen=3.3%, Oxidation Reduction Potential=-138.2mV2, Salinity=37000ppm.
19-Oct-16 17:00:00	BSW 100% with 0.25% solids, H2S 5ppm, CO2 3.5%, Gas SG=0.646.
19-Oct-16 17:00:20	BSW solids black in colour and flakey consistancy.
19-Oct-16 17:01:00	Took Isotube sample #31 from separator gas line at 83.8psia 36.5degC.
19-Oct-16 17:03:00	Observed 100psia differential across sand filter.
19-Oct-16 17:04:00	Dumped sand filter through adjustable choke to sand skip in attempt to clear.
19-Oct-16 17:07:00	Still observed differential pressure across sand filter, switched to LH side. Flushed RH side clean.
19-Oct-16 22:01:00	WHP dropping, well slugging.
19-Oct-16 22:05:00	Slug at surface, checked BSW=100% no solids.
19-Oct-16 23:00:00	BSW=100%, no solids, CO2=4% H2S=6ppm.
19-Oct-16 23:00:00	Water results= Electrical Conductivity=51.5mS@20.3DegC,Water Density=1016.8kg/m3@23.6DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-126.6mV2, Salinity=33000ppm.
20-Oct-16 03:00:00	Pumped 59.8 bbls from tank to the pond.
20-Oct-16 05:00:00	BSW 100% no solids, H2S 6ppm, CO2 4%, Gas SG=0.646.
20-Oct-16 05:00:00	Electrical Conductivity=51.5mS@21.5DegC,Water Density=1015.9kg/m3@23.5DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-169.4mV2, Salinity=33000ppm.
20-Oct-16 07:01:00	WHP started to drop, well slugging.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

20-Oct-16 07:08:00	Water on surface, took sample. BSW=100% no solids.
20-Oct-16 08:30:00	VX computer preparing forced re-boot, prepare back up laptop.
20-Oct-16 09:00:00	VX computer re-booting.
20-Oct-16 09:22:00	VX computer up and running, re-connect to interact.
20-Oct-16 09:48:00	Lowered 1.750" orifice plate.
20-Oct-16 09:49:00	**MP on 28/64" Fixed Choke.**
20-Oct-16 09:50:00	Gas SG = 0.646.
20-Oct-16 11:00:00	BSW dry, no solids, H2S 4ppm, CO2 3%, Gas SG= 0.640.
20-Oct-16 11:03:27	Checked barton scrubbers for carry over.
20-Oct-16 12:51:00	Raised 1.750" orifice plate.
20-Oct-16 12:51:00	**End of MP.**
20-Oct-16 12:52:00	Switched to 28/64" adjustable choke.
20-Oct-16 12:52:00	**End of FP #1.**
20-Oct-16 12:53:00	**FP #2 Extended Production Test Flow on 32/64" Fixed Choke.**
20-Oct-16 12:53:00	Increased to 30/64" adjustable choke.
20-Oct-16 13:51:00	Increased to 32/64" adjustable choke.
20-Oct-16 13:57:31	Switched to 32/64" fixed choke.
20-Oct-16 15:00:00	BSW dry no solids.
20-Oct-16 15:36:00	Lowered 1.750" Orifice Plate.
20-Oct-16 15:38:00	**MP on 32/64" Fixed Choke.**
20-Oct-16 15:40:00	32/64" Fixed Choke, 1.750" Orifice Plate, Gas SG=0.640.
20-Oct-16 16:10:00	Pumped 62.4 bbls from tank to pond.
20-Oct-16 17:00:00	BSW=100%, trace of solids, H2S 6ppm, CO2 4%, Gas SG = 0.642.
20-Oct-16 17:00:00	Checked for carry over at barton scrubbers.
20-Oct-16 17:01:00	Took Isotube Sample #32 from separator gas line at 86 psia 40degC.
20-Oct-16 17:01:00	Electrical Conductivity=62.58mS@31degC,Water Density=1014.5kg/m3@30.6DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-183.4mV2, Salinity=38000ppm.
20-Oct-16 19:01:00	Wellhead pressure dropping, slug coming.
20-Oct-16 19:02:00	Lifted 1.750" Orifice Plate.
20-Oct-16 19:02:00	**End of MP.**
20-Oct-16 19:03:00	Slug: BSW=100% no trace of solids, waiting for well stabilization.
20-Oct-16 23:00:00	BSW=100%, no trace, H2S 5ppm, CO2 3%, Gas SG = 0.644.
20-Oct-16 23:00:00	Electrical Conductivity=56.35mS@25.1degC,Water Density=1014.5kg/m3@28.6DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-161.1mV2, Salinity=30000ppm.
20-Oct-16 23:08:00	Lowered 1.750" Orifice Plate.
20-Oct-16 23:09:00	Orifice plate stuck in middle compartment.
20-Oct-16 23:24:00	Bypassing the separator.
20-Oct-16 23:30:00	Skew plate re-centred.
20-Oct-16 23:37:00	Putting separator back online, closing bypass.
20-Oct-16 23:39:00	Separator back online.
20-Oct-16 23:50:00	Flow stabilized, dropping 1.750" Orifice Plate.
20-Oct-16 23:55:00	**MP on 32/64" Fixed Choke.**
21-Oct-16 00:10:00	From Vx manifold: Gas SG = 0.644.
21-Oct-16 01:30:00	Checked for carry over at barton scrubbers.
21-Oct-16 05:00:00	BSW=100%, no trace, H2S 5ppm, CO2 3.5%, Gas SG = 0.644.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

21-Oct-16 05:00:00	Electrical Conductivity=54.55mS@23.8C,Water Density=1014.6kg/m3@27.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-158.7mV2, Salinity=30000ppm.
21-Oct-16 05:00:00	Pumped 62.24 bbls from tank to the pond.
21-Oct-16 05:08:36	Checked for carry over at barton scrubbers.
21-Oct-16 06:30:08	Checked for carry over at barton scrubbers.
21-Oct-16 07:01:58	Checked for carry over at barton scrubbers.
21-Oct-16 08:01:04	Checked for carry over at barton scrubbers.
21-Oct-16 08:58:08	Checked for carry over at barton scrubbers.
21-Oct-16 09:49:56	Checked for carry over at barton scrubbers.
21-Oct-16 10:00:00	Gas SG 0.640.
21-Oct-16 11:00:00	BSW dry, no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.
21-Oct-16 11:46:00	WHP dropping, well slugging.
21-Oct-16 11:48:00	Raised 1.75" orifice plate
21-Oct-16 11:48:00	**End of MP.**
21-Oct-16 15:00:00	Gas SG 0.640.
21-Oct-16 15:18:00	Lowered 1.75" Orifice Plate.
21-Oct-16 15:23:00	**MP on 32/64" Fixed Choke.**
21-Oct-16 16:10:00	Pumped 47.46 bbl from tank to pond.
21-Oct-16 17:00:00	Took Iso Sample#33 from separator gas line 90.9psia @ 38.7 degC.
21-Oct-16 17:00:01	Electrical Conductivity=62.73mS@27.5degC,Water Density=1015.6kg/m3@31DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-178mV2, Salinity=32000ppm.
21-Oct-16 17:01:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.
21-Oct-16 18:30:00	InterACT lost connection, stopping OPC.
21-Oct-16 19:00:00	Dart crashed, InterACT connection already lost.
21-Oct-16 19:01:00	Dart back online, InterACT connection re-established.
21-Oct-16 23:00:00	From Vx manifold: Electrical Conductivity=53.37mS@23degC,Water Density=1015.6kg/m3@25DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-168.4mV2, Salinity=25000ppm.
21-Oct-16 23:00:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.642.
21-Oct-16 23:20:00	Checked for carry over at barton scrubbers.
22-Oct-16 01:00:00	Changed propane gas bottle feeding the flare.
22-Oct-16 02:07:00	Checked for carry over at barton scrubbers.
22-Oct-16 03:45:00	Started raining outside.
22-Oct-16 03:55:00	Slug at surface.
22-Oct-16 05:00:00	From Vx manifold: Electrical Conductivity=54.17mS@23.3degC,Water Density=1015.4kg/m3@25.1DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-173.4mV2, Salinity=27000ppm.
22-Oct-16 05:00:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.642.
22-Oct-16 05:10:00	Pumped 58.88 bbls from tank to the pond.
22-Oct-16 07:00:42	Checked barton scrubbers for carry over.
22-Oct-16 08:00:00	Gas SG 0.640.
22-Oct-16 08:10:38	Checked for carry over on barton scrubbers.
22-Oct-16 09:05:18	Checked for carry over on barton scrubbers.
22-Oct-16 10:03:49	Checked for carry over on barton scrubbers.
22-Oct-16 11:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.640.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

22-Oct-16 11:00:01	Took ALS samples from separator oil line, PH 7, 26.6degC, Electrical Conductivity 57.14mS cumulative 8901bbls.
22-Oct-16 11:01:00	Water sample from VX=Electrical Conductivity=56.7mS@26degC,Water Density=1014kg/m3@29DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-125.9mV2, Salinity=25000ppm.
22-Oct-16 11:07:09	Checked for carry over on barton scrubbers.
22-Oct-16 11:59:08	Checked for carry over on barton scrubbers.
22-Oct-16 13:00:00	Gas SG 0.640.
22-Oct-16 13:01:05	Checked for carry over on barton scrubbers.
22-Oct-16 14:00:00	Checked for carry over on barton scrubbers.
22-Oct-16 15:00:00	Gas SG 0.640.
22-Oct-16 15:02:15	Checked for carry over on barton scrubbers.
22-Oct-16 16:03:11	Checked for carry over on barton scrubbers.
22-Oct-16 16:57:34	Checked for carry over on barton scrubbers.
22-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.
22-Oct-16 17:00:00	Took Isotube sample #34 from separator at 93psia 31degC.
22-Oct-16 17:00:00	Water sample from VX=Electrical Conductivity=54.38 mS@23.2degC,Water Density=1015kg/m3@Deg29.5C, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-196.6mV2, Salinity=25000ppm.
22-Oct-16 17:10:00	Pumped 56.58 bbl from tank to pond.
22-Oct-16 20:00:00	Checked for carry over on barton scrubbers.
22-Oct-16 21:00:00	Checked for carry over on barton scrubbers.
22-Oct-16 22:00:00	Checked for carry over on barton scrubbers.
22-Oct-16 22:30:00	Slug at surface.
22-Oct-16 23:00:00	Water sample from VX=Electrical Conductivity=55.68 mS@20.7degC,Water Density=1015.1kg/m3@Deg24.5C, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-198.1mV2, Salinity=27000ppm.
22-Oct-16 23:00:00	BSW 100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.
22-Oct-16 23:00:00	Checked for carry over on barton scrubbers.
23-Oct-16 00:00:00	Slug at surface.
23-Oct-16 00:05:00	Checked for carry over on barton scrubbers.
23-Oct-16 01:12:00	Checked for carry over on barton scrubbers.
23-Oct-16 02:02:00	Checked for carry over on barton scrubbers.
23-Oct-16 03:00:00	Checked for carry over on barton scrubbers.
23-Oct-16 04:03:00	Checked for carry over on barton scrubbers.
23-Oct-16 05:00:00	Water sample from VX=Electrical Conductivity=51.37mS@20.5degC,Water Density=1015.8kg/m3@Deg22.3C, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-182.3mV2, Salinity=27000ppm.
23-Oct-16 05:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.640.
23-Oct-16 05:01:00	Checked for carry over on barton scrubbers.
23-Oct-16 05:39:00	WHP dropping, well slugging. Raise Orifice Plate.
23-Oct-16 05:39:00	**End of MP.**
23-Oct-16 05:40:00	Slug at surface, collect sample.
23-Oct-16 05:49:00	Slug sample results BSW 100% no solids.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

23-Oct-16 07:10:00	Pumped 64.63 bbls from tank to pond.
23-Oct-16 11:05:00	Lowered orifice plate, carrier got jammed in Canalta.
23-Oct-16 11:10:00	Bypassed separator to flare, bled off separator pressure.
23-Oct-16 11:14:00	Removed jammed carrier.
23-Oct-16 11:26:00	Passed flow back through separator.
23-Oct-16 11:27:00	Drained liquid trap at base of flare stack.
23-Oct-16 11:30:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.638.
23-Oct-16 13:00:00	Weekley safety meeting.
23-Oct-16 14:00:00	**MP on 32/64" Fixed Choke.**
23-Oct-16 14:00:00	Lowered 1.75" Orifice Plate.
23-Oct-16 15:20:00	Well slugging, raise orifice plate.
23-Oct-16 15:20:00	**End of MP.**
23-Oct-16 15:58:00	Slug sample results BSW, 100% no solids.
23-Oct-16 17:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.638.
23-Oct-16 17:01:00	Water sample from VX=PH7, Electrical Conductivity=58.69mS@26.6degC,Water Density=1014.3kg/m3@Deg28.7C, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-230.4mV2, Salinity=24000ppm.
23-Oct-16 19:55:00	Well slugging, monitoring pressures.
23-Oct-16 20:00:00	Slug BSW, 100% no solids.
23-Oct-16 22:00:00	Pumped 62.56 bbls to the pond.
23-Oct-16 23:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.638.
23-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=52.92mS@21.9degC,Water Density=1015.2kg/m3@Deg24.4C, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-215.1mV2, Salinity=21000ppm.
24-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
24-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=52.47mS@21.4degC,Water Density=1015.2kg/m3@Deg23.8C, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-207.4mV2, Salinity=21000ppm.
24-Oct-16 05:30:00	**MP on 32/64" Fixed Choke.**
24-Oct-16 05:30:00	Lowered 1.750" Orifice Plate.
24-Oct-16 06:08:56	Checked for carry over on barton scrubbers.
24-Oct-16 06:53:46	Checked for carry over on barton scrubbers.
24-Oct-16 07:55:08	Checked for carry over on barton scrubbers.
24-Oct-16 08:31:17	Checked for carry over on barton scrubbers.
24-Oct-16 08:57:20	Checked for carry over on barton scrubbers.
24-Oct-16 09:30:07	Checked for carry over on barton scrubbers.
24-Oct-16 10:00:06	Checked for carry over on barton scrubbers.
24-Oct-16 10:57:52	Checked for carry over on barton scrubbers.
24-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4% Gas SG 0.640.
24-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=57.96mS@25.5degC,Water Density=1014.2kg/m3@27.9DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-230mV2, Salinity=20000ppm.
24-Oct-16 11:10:00	Pumped 51.6 bbl from tank to pond.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

24-Oct-16 11:32:08	Checked for carry over on barton scrubbers.
24-Oct-16 11:59:07	Checked for carry over on barton scrubbers.
24-Oct-16 12:30:20	Checked for carry over on barton scrubbers.
24-Oct-16 13:01:09	Checked for carry over on barton scrubbers.
24-Oct-16 14:01:57	Checked for carry over on barton scrubbers.
24-Oct-16 15:06:24	Checked for carry over on barton scrubbers.
24-Oct-16 16:00:00	VX water port plugged with debris. Used enerpac pump to clear port.
24-Oct-16 16:05:00	Flushed VX water port to remove all debris.
24-Oct-16 16:08:03	Checked for carry over on barton scrubbers.
24-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.
24-Oct-16 17:00:00	Water sample from VX: ph=7, Electrical Conductivity=61.05mS@28.5degC,Water Density=1013.8kg/m3@30.5DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-236.5mV2, Salinity=19000ppm.
24-Oct-16 17:20:57	WHP started to spike.
24-Oct-16 17:48:47	Opened barton bypass to protect it whilst WHP stabalises.
24-Oct-16 18:55:00	Checked for carry over on barton scrubbers.
24-Oct-16 20:04:00	Checked for carry over on barton scrubbers.
24-Oct-16 20:30:00	WHP started to spike, monitoring barton.
24-Oct-16 21:11:00	Checked for carry over on barton scrubbers.
24-Oct-16 22:04:00	Checked for carry over on barton scrubbers.
24-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=55.6mS@24.0degC,Water Density=1014.8kg/m3@25.9DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-207.5mV2, Salinity=14000ppm.
24-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.
24-Oct-16 23:06:00	Checked for carry over on barton scrubbers.
25-Oct-16 00:11:00	Checked for carry over on barton scrubbers.
25-Oct-16 01:00:00	Pumped 61.64 bbls from tank to the pond.
25-Oct-16 01:03:00	Checked for carry over on barton scrubbers.
25-Oct-16 03:06:00	Checked for carry over on barton scrubbers.
25-Oct-16 04:05:00	Checked for carry over on barton scrubbers.
25-Oct-16 04:06:00	WHP dropping, slug coming.
25-Oct-16 04:07:00	Lifted 1.750" orifice plate
25-Oct-16 04:07:00	**End of MP.**
25-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.
25-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.3mS@22.2degC,Water Density=1015.4kg/m3@24.0DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-219.0mV2, Salinity=14000ppm.
25-Oct-16 08:00:00	Gas SG 0.642.
25-Oct-16 08:20:00	Flush out barton liners.
25-Oct-16 08:40:00	Barton back online.
25-Oct-16 09:00:00	Lowered 1.75" plate, plate carrier jammed.
25-Oct-16 09:03:00	By-passed separaor, bled off pressure.
25-Oct-16 09:11:00	Remove jammed carrier, inspect teeth and carrier.
25-Oct-16 09:31:00	Passed flow back through separator.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

25-Oct-16 10:00:00	VSAT down for maintenance.
25-Oct-16 10:12:00	Attemped to lower 1.75" plate, plate jammed.
25-Oct-16 10:18:00	By-passed separator and bled off.
25-Oct-16 10:25:00	Remove jammed plate carrier.
25-Oct-16 10:25:00	Passed flow back through separator.
25-Oct-16 10:42:00	Powered down genarator for service, TDA running on UPS.
25-Oct-16 11:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.642.
25-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=61.07mS@27.9degC,Water Density=1013.7kg/m3@30.7DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-247.4mV2, Salinity=36000ppm.
25-Oct-16 11:15:00	Genarator back up and running, off of UPS.
25-Oct-16 12:00:00	VSAT back up and running.
25-Oct-16 14:00:00	Gas SG 0.642.
25-Oct-16 14:43:00	WHP dropping, well slugging.
25-Oct-16 14:45:00	Slug sample results BSW= 100% no solids.
25-Oct-16 15:00:00	Took ALS sample from separator. 9225 bbls, E.C 67.6mS @ 34.3degC, pH=7.
25-Oct-16 17:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.642.
25-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=62.36mS@29.2degC,Water Density=1013.7kg/m3@31.3DegC, Dissolved Oxygen=1.8%, Oxidation Reduction Potential=-240.5mV2, Salinity=36000ppm.
25-Oct-16 17:10:00	Pumped 62.64 bbl from tank to pond.
25-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
25-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.5mS@22.2degC,Water Density=1015.1kg/m3@24.9DegC, Dissolved Oxygen=2.0%, Oxidation Reduction Potential=-232.4mV2, Salinity=36000ppm.
26-Oct-16 00:25:00	Well slugging.
26-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.53mS@22degC,Water Density=1014.8kg/m3@24.3DegC, Dissolved Oxygen=1.7%, Oxidation Reduction Potential=-148.6mV2, Salinity=36000ppm.
26-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
26-Oct-16 06:11:00	WHP dropping, well slugging.
26-Oct-16 08:00:00	Gas SG 0.642.
26-Oct-16 08:10:00	Pumped 59.95 bbls from tank to pond.
26-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
26-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=64.36mS@29degC,Water Density=1013.1kg/m3@30DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-187.2mV2.
26-Oct-16 16:05:00	Switched to adjustable choke, increased to 34/64".
26-Oct-16 16:05:00	Waited for WHP to stabalize.
26-Oct-16 16:11:00	Lowered separator pressure to 75 psia.
26-Oct-16 16:30:00	Installed 36/64" choke bean witnessed by WSR.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

26-Oct-16 16:56:00	**End of FP #2.**
26-Oct-16 16:57:00	**FP #3 Extended Production Test Flow on 36/64" Fixed Choke.**
26-Oct-16 16:57:00	Increased to 36/64" adjustable choke, then diverted to 36/64" fixed choke.
26-Oct-16 16:59:00	Flowing well on 36/64" fixed choke.
26-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 3.5%, Gas SG 0.642.
26-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=62.33mS@28.2degC,Water Density=1013.9kg/m3@29.2DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-229mV2.
26-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.650.
26-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=61.13mS@27.8degC,Water Density=1012.8kg/m3@29.6DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-208.2mV2.
26-Oct-16 23:00:00	Pumped 59.8 bbls from tank to the ponds.
27-Oct-16 02:25:00	WHP dropping, well slugging.
27-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.650.
27-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=57.23mS@24.3degC,Water Density=1013.7kg/m3@26.4DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-225.8mV2.
27-Oct-16 08:00:00	Gas SG 0.642.
27-Oct-16 11:00:00	BSW 100% no solids, H2S9ppm, CO2 4%, Gas SG 0.642.
27-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=66.8mS@32.1degC,Water Density=1011kg/m3@34.4DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-230.9mV2.
27-Oct-16 14:00:00	Gas SG 0.644.
27-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4% Gas SG 0.646.
27-Oct-16 17:00:00	Took Isotube sample #35 from separator gas line at 40degC 79psia.
27-Oct-16 17:00:00	Water sample from VX: ph=7, Electrical Conductivity=68.78mS@34.2degC,Water Density=1011.6kg/m3@34.6DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-250.4mV2.
27-Oct-16 17:10:00	Pumped out 61.26 bbls from tank to pond.
27-Oct-16 23:00:00	BSW 100% no solids, H2S 9ppm, CO2 4% Gas SG 0.646.
27-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=60.40mS@26.4degC,Water Density=1013.1kg/m3@28.6DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-240.7mV2.
28-Oct-16 03:05:00	WHP dropping, well slugging.
28-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4% Gas SG 0.646.
28-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=57.36mS@24degC,Water Density=1013.4kg/m3@27.1DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-245.7mV2.
28-Oct-16 08:00:00	Gas SG 0.644.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

28-Oct-16 10:45:00	Flushed VX water port, removed all old debris.
28-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.
28-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=71.75mS@35.8degC,Water Density=1010.2kg/m3@37.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-248.9mV2.
28-Oct-16 11:15:00	Pumped out 69.54 bbls from tank to pond.
28-Oct-16 14:00:00	Gas SG 0.644.
28-Oct-16 16:33:00	Well slugging.
28-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%. Gas SG 0.642.
28-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=71.67mS@34.8degC,Water Density=1011.5kg/m3@35.5DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-259.7mV2.
28-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%. Gas SG 0.648.
28-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=62.34mS@27.5degC,Water Density=1012.6kg/m3@29.8DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-250.1mV2.
29-Oct-16 03:00:00	WHP dropping, well slugging.
29-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=58.49mS@24.4degC,Water Density=1013.1kg/m3@27.6DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-255.8mV2.
29-Oct-16 05:00:00	Pumped out 67.62bbls the ponds.
29-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%. Gas SG 0.648.
29-Oct-16 07:31:00	Well slugging.
29-Oct-16 08:00:00	Gas SG 0.642.
29-Oct-16 10:41:25	Well Slugging.
29-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
29-Oct-16 11:00:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.
29-Oct-16 11:01:00	Water sample from VX: pH=7, Electrical Conductivity=66.8mS@31.7degC,Water Density=1011kg/m3@33.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-218.8mV2.
29-Oct-16 14:00:00	Gas SG 0.642.
29-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
29-Oct-16 17:01:00	Water sample from VX: pH=7, Electrical Conductivity=68.98mS@33.5degC,Water Density=1011kg/m3@34.6DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-249.4mV2.
29-Oct-16 17:50:00	WHP dropping, well slugging.
29-Oct-16 22:45:00	WHP dropping, well slugging.
29-Oct-16 23:00:00	BSW 100% no solids, H2S 10ppm, CO2 4.5%, Gas SG 0.646.
29-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=64.76mS@29.0degC,Water

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	Density=1012.5kg/m3@31DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-232.5mV2.
29-Oct-16 23:00:00	Pumped 64.86 bbls from tank to the ponds.
30-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.646.
30-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=61.23mS@26.9degC,Water Density=1012.8kg/m3@28.4DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-244.2mV2.
30-Oct-16 08:00:00	Gas SG 0.644.
30-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.
30-Oct-16 11:00:00	Water sample from VX: pH=7, Electrical Conductivity=67.82mS@32.2degC,Water Density=1011.4kg/m3@33.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-253.8mV2.
30-Oct-16 11:00:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.
30-Oct-16 14:00:00	Gas SG 0.646.
30-Oct-16 16:00:00	Took ALS sample from Separator, cumulative=9682.7bbls, EC=70.8mS@34.2degC.
30-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.646.
30-Oct-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=68.35mS@32degC,Water Density=1012.2kg/m3@33.8DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-269mV2.
30-Oct-16 20:00:00	Gas SG 0.645.
30-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.646.
30-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=59.66mS@25.6degC,Water Density=1013.6kg/m3@27.2DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-205.8mV2.
31-Oct-16 02:00:00	Gas SG 0.644.
31-Oct-16 05:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.648.
31-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=59.99mS@25.7degC,Water Density=1013.2kg/m3@27.8DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-225.7mV2.
31-Oct-16 08:00:00	Gas SG=0.644.
31-Oct-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.
31-Oct-16 11:01:00	Water sample from VX: pH=7, Electrical Conductivity=66.3mS@31.6degC,Water Density=1011.2kg/m3@31.6DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-238.5mV2.
31-Oct-16 11:01:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.
31-Oct-16 11:15:00	Pumped 61.8 bbls from tank to pond.
31-Oct-16 14:00:00	Gas SG=0.644.
31-Oct-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

31-Oct-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=66.4mS@31.1degC,Water Density=1013.6kg/m3@31.1DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-222mV2.
31-Oct-16 17:01:00	**MP on 36/64" Fixed Choke.**
31-Oct-16 17:01:00	Lowered 1.75" Orifice Plate.
31-Oct-16 20:00:00	Gas SG=0.644.
31-Oct-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.
31-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=60.98mS@25.6degC,Water Density=1013.5kg/m3@27.5DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-287.5mV2.
01-Nov-16 02:00:00	Gas SG=0.646.
01-Nov-16 05:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.646.
01-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=57.45mS@23.6degC,Water Density=1013.8kg/m3@25.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-297mV2.
01-Nov-16 05:00:00	Pumped 61.64bbls from tank to pond.
01-Nov-16 08:00:00	Gas SG 0.644.
01-Nov-16 09:30:00	Started raining heavily, tank volumes may be slightly affected.
01-Nov-16 11:00:00	Electrical Storm in area, decided to stop climbing on top of tank for straps until it had passed.
01-Nov-16 11:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.08mS@21degC,Water Density=1014.7kg/m3@22.8DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-264.3mV2.
01-Nov-16 11:00:00	BSW 100% no solids. H2S 9ppm, CO2 4%, Gas SG 0.642.
01-Nov-16 11:05:00	Flushed VX water port, found approx. 2cc of sand in sample.
01-Nov-16 13:00:00	Observed an increase of around 1bbl per hour at tank since rain started.
01-Nov-16 13:30:00	Rain stopped.
01-Nov-16 14:00:00	Gas SG 0.644.
01-Nov-16 17:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.644.
01-Nov-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=55.55mS@24.4degC,Water Density=1014kg/m3@25.9DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-192.7mV2.
01-Nov-16 17:00:00	Took Isotube sample #36 from separator gas line at 82.5psia 31deg C.
01-Nov-16 20:00:00	Gas SG 0.644.
01-Nov-16 22:00:00	Pumped out 68 bbls from tank to pond.
01-Nov-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.
01-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.79mS@24.1degC,Water Density=1014.5kg/m3@25.2DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-204.6mV2.
02-Nov-16 02:00:00	Gas SG 0.644.
02-Nov-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.646.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

02-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.32mS@23degC,Water Density=1014.4kg/m3@25.1DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-224.4mV2.
02-Nov-16 06:42:41	Checked barton scrubbers for carry over.
02-Nov-16 08:00:00	Gas SG 0.642.
02-Nov-16 08:01:50	Checked barton scrubbers for carry over.
02-Nov-16 09:02:00	WHP dropping, well slugging.
02-Nov-16 09:06:00	Raised 1.75" Orifice Plate.
02-Nov-16 09:06:00	**End of MP.**
02-Nov-16 09:42:00	Separator pressure had been creeping up slightly over past 12 hours, started to slowly adjust back down to previous setting.
02-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=9911bbls, EC=61.07mS@29.7degC.
02-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 3.5%, Gas SG 0.642
02-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=60.53mS@28.8degC,Water Density=1012.8kg/m3@29.5DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-181mV2, Salinity 38000ppm
02-Nov-16 11:05:00	Went to flush VX water port after slug, found it plugged.
02-Nov-16 11:10:00	Used HP pump to clear VX water port.
02-Nov-16 11:15:00	Flushed VX water port, collected approx. 50cc of sand from port.
02-Nov-16 13:05:00	Separator pressure dropped 17psi to 73 psia whilst adjusting.
02-Nov-16 13:06:00	Started slowly increasing Separator pressure up to 80psia.
02-Nov-16 14:00:00	Gas SG 0.642.
02-Nov-16 14:03:00	**MP on 36/64" Fixed Choke.**
02-Nov-16 14:03:00	Lowered 1.75" Orifice Plate.
02-Nov-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.642.
02-Nov-16 17:00:00	Water sample from VX: pH=6.2, Electrical Conductivity=62.68mS@30.3degC, Water Density=1012.6kg/m3@31.6DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-134.9mV2, Salinity=38000ppm.
02-Nov-16 17:10:00	Pumped out 58 bbls from tank to pond.
02-Nov-16 20:00:00	Gas SG 0.644.
02-Nov-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.646.
02-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.91mS@23.73degC, Water Density=1014.4kg/m3@25.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-125.9mV2, Salinity=37000ppm.
03-Nov-16 01:46:28	Well slugging.
03-Nov-16 02:00:00	Gas SG 0.646.
03-Nov-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.646.
03-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=50.0mS@21.1degC, Water Density=1013.9kg/m3@23DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-110.4mV2, Salinity=36000ppm.
03-Nov-16 08:00:00	Gas SG 0.642.
03-Nov-16 08:01:43	Checked barton scrubbers for carry over.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

03-Nov-16 10:02:43	Flushed barton scrubbers.
03-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.
03-Nov-16 11:00:00	Water sample from VX: pH=6, Electrical Conductivity=62.35mS@29.8degC, Water Density=1012.8kg/m3@31DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-142.2mV2, Salinity=38000ppm.
03-Nov-16 11:01:00	Checked barton scrubbers for carry over.
03-Nov-16 11:15:00	Flushed VX liquid port, found trace of sand ~3cc.
03-Nov-16 12:48:00	WHP dropping, well slugging.
03-Nov-16 12:50:00	Lifted 1.75" Orifice Plate.
03-Nov-16 12:50:00	**End of MP.**
03-Nov-16 14:00:00	Gas SG=0.642
03-Nov-16 15:00:00	Pumped 66.8 bbls from tank to pond.
03-Nov-16 16:02:00	**MP on 36/64" Fixed Choke.**
03-Nov-16 16:02:00	Lowered 1.75" Orifice Plate.
03-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
03-Nov-16 17:01:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.391mS@30.3degC, Water Density=1013.1kg/m3@32.1DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-137.8mV2, Salinity=38000ppm.
03-Nov-16 20:00:00	Gas SG=0.642
03-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.
03-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.46mS@22.8degC, Water Density=1015kg/m3@24.7DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-109.4mV2, Salinity=38000ppm.
04-Nov-16 02:00:00	Gas SG=0.644
04-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.
04-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.81mS@22.6degC, Water Density=1015.2kg/m3@24.6DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-115.8mV2, Salinity=38000ppm.
04-Nov-16 08:00:00	Gas SG=0.640
04-Nov-16 10:00:00	Pumped 57.5 bbls from tank to pond.
04-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.
04-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.93mS@30.2degC, Water Density=1013kg/m3@31.5DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-134mV2, Salinity=38000ppm.
04-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand ~1cc and scales.
04-Nov-16 14:00:00	Gas SG=0.640
04-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
04-Nov-16 17:00:00	Water sample from VX: pH=6.2, Electrical Conductivity=63.63mS@31.1degC, Water Density=1012.7kg/m3@33.3DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-125.6mV2, Salinity=38000ppm.
04-Nov-16 20:00:00	Gas SG=0.644

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

04-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
04-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=54.38mS@22.4degC,Water Density=1015.1kg/m3@24.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-106.5mV2, Salinity=38000ppm.
05-Nov-16 02:00:00	Gas SG=0.642
05-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
05-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.77mS@22.7degC,Water Density=1014.8kg/m3@24.9DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-104.9mV2, Salinity=38000ppm.
05-Nov-16 07:00:00	Pumped 61.2 bbls from tank to pond.
05-Nov-16 08:00:00	Gas SG=0.640
05-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=10129bbls, EC=66.15mS@33.4degC, pH=6.1.
05-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=65.02mS@30.7degC,Water Density=1013.2kg/m3@32DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-145mV2, Salinity=39000ppm.
05-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
05-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.
05-Nov-16 14:00:00	Gas SG=0.640
05-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
05-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=66.96mS@33.3degC,Water Density=1012kg/m3@34.7DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-182mV2, Salinity=38000ppm.
05-Nov-16 20:00:00	Gas SG=0.642
05-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.
05-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=56.03mS@24.2degC,Water Density=1014.5kg/m3@25.7DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-180.8mV2, Salinity=38000ppm.
06-Nov-16 00:54:00	WHP dropping, well slugging.
06-Nov-16 01:12:00	Lifted 1.75" Orifice Plate.
06-Nov-16 01:12:00	**End of MP.**
06-Nov-16 02:00:00	Gas SG=0.644
06-Nov-16 02:16:00	**MP on 36/64" Fixed Choke.**
06-Nov-16 02:16:00	Lowered 1.75" Orifice Plate.
06-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.
06-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=55.63mS@23.4degC,Water Density=1015kg/m3@25.2DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-184mV2, Salinity=38000ppm.
06-Nov-16 05:01:00	Pumped 68 bbls from tank to pond.
06-Nov-16 08:00:00	Gas SG=0.642
06-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

06-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=64.74mS@29.4degC,Water Density=1014.3kg/m3@30DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-185mV2, Salinity=40000ppm.
06-Nov-16 11:00:00	Flushed VX liquid port, found trace of sand and scales.
06-Nov-16 14:00:00	Took Isotube sample #37 from separator gas line at 91.9psia 41.4deg C.
06-Nov-16 14:00:00	Gas SG=0.640
06-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
06-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=64.45mS@30.4degC,Water Density=1013.3kg/m3@32.3DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-192mV2, Salinity=39000ppm.
06-Nov-16 20:00:00	Gas SG=0.642
06-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
06-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=55.98mS@23.3degC,Water Density=1014.7kg/m3@25.3DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-237.6mV2, Salinity=39000ppm.
07-Nov-16 02:00:00	Gas SG=0.642
07-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.
07-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.07mS@21.7degC,Water Density=1015.3kg/m3@23.6DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-248.7mV2, Salinity=39000ppm.
07-Nov-16 05:01:00	Pumped 66 bbls from tank to pond.
07-Nov-16 06:25:00	DART computer crashed, needed to restart.
07-Nov-16 06:50:00	DART computer restarted, acquisition resumed.
07-Nov-16 08:00:00	Gas SG=0.640
07-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=3%, Gas SG=0.640.
07-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=66.1mS@31.3degC,Water Density=1012.8kg/m3@31.8DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-265.1mV2, Salinity=39000ppm.
07-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.
07-Nov-16 14:00:00	Gas SG=0.640
07-Nov-16 16:30:00	WHP dropping, well slugging.
07-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
07-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=63.25mS@28degC,Water Density=1014.7kg/m3@29.7DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-110mV2, Salinity=40000ppm.
07-Nov-16 20:00:00	Gas SG=0.642.
07-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.
07-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.17mS@23.5degC,Water Density=1014.7kg/m3@25.1DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-276.1mV2, Salinity=39000ppm.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

08-Nov-16 00:48:00	DART computer crashed, needed to restart.
08-Nov-16 02:43:00	DART computer restarted, acquisition resumed.
08-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.
08-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.36mS@21.4degC,Water Density=1015.3kg/m3@23.4DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-278.2mV2, Salinity=39000ppm.
08-Nov-16 05:01:00	Pumped 69.9 bbls from tank to pond.
08-Nov-16 08:00:00	Gas SG=0.640.
08-Nov-16 10:30:00	Took ALS sample from Separator. Cumulative=10334bbls, EC=65.6mS@31.1degC, pH=6.1.
08-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
08-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=63.2mS@28.4degC,Water Density=1013.4kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-226mV2, Salinity=40000ppm.
08-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.
08-Nov-16 14:00:00	Gas SG=0.640.
08-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
08-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=65.31mS@30degC,Water Density=1013.8kg/m3@31.3DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-250.3mV2, Salinity=40000ppm.
08-Nov-16 20:00:00	Gas SG=0.642.
08-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
08-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.06mS@23.8degC,Water Density=1015kg/m3@25.5DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-280.2mV2, Salinity=40000ppm.
09-Nov-16 02:00:00	Gas SG=0.642
09-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=3%, Gas SG=0.642.
09-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.06mS@22.6degC,Water Density=1015kg/m3@24.3DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-289.8mV2, Salinity=39000ppm.
09-Nov-16 05:01:00	Pumped 60.3 bbls from tank to pond.
09-Nov-16 08:00:00	Gas SG=0.640.
09-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
09-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=66mS@30degC,Water Density=1013.1kg/m3@31.1DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-252mV2, Salinity=40000ppm.
09-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.
09-Nov-16 14:00:00	Gas SG=0.640.
09-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
09-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.2mS@28.9degC,Water

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	Density=1013.8kg/m3@30.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-295.1mV2, Salinity=40000ppm.
09-Nov-16 20:00:00	Gas SG=0.642.
09-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
09-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=57.48mS@21.7degC,Water Density=1016.3kg/m3@23.6DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-263.8mV2, Salinity=41000ppm.
10-Nov-16 02:00:00	Gas SG=0.642.
10-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=3%, Gas SG=0.642.
10-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.18mS@21degC,Water Density=1016.3kg/m3@23.1DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-281.7mV2, Salinity=41000ppm.
10-Nov-16 08:00:00	Gas SG=0.640.
10-Nov-16 08:00:00	Pumped 65.3 bbls from tank to pond.
10-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
10-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.5mS@28.3degC,Water Density=1014.1kg/m3@29.8DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-260mV2, Salinity=41000ppm.
10-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.
10-Nov-16 14:00:00	Gas SG=0.640.
10-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
10-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=63.32mS@28.6degC,Water Density=1013.9kg/m3@29.9DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-241.5mV2, Salinity=40000ppm.
10-Nov-16 20:00:00	Gas SG=0.642.
10-Nov-16 20:40:00	DART computer crashed, needed to restart.
10-Nov-16 21:05:00	DART computer restarted, acquisition resumed.
10-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
10-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=56.31mS@21.7degC,Water Density=1015.5kg/m3@23.5DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-292.5mV2, Salinity=40000ppm.
11-Nov-16 00:55:00	DART computer crashed, needed to restart.
11-Nov-16 01:03:00	DART computer restarted, acquisition resumed.
11-Nov-16 02:00:00	Gas SG=0.642.
11-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
11-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.75mS@21.2degC,Water Density=1015.7kg/m3@23.2DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-189.1mV2, Salinity=40000ppm.
11-Nov-16 08:00:00	Gas SG=0.640.
11-Nov-16 08:00:00	Pumped 56.6 bbls from tank to pond.
11-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=10512bbls,

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	EC=67.14mS@31.2degC, pH=6.3.
11-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.8mS@27.8degC,Water Density=1014kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-230.1mV2, Salinity=41000ppm.
11-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
11-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.
11-Nov-16 14:00:00	Took Isotube sample #38, 69.5psia @ 40deg C.
11-Nov-16 14:00:00	Gas SG=0.640.
11-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
11-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=66mS@31degC,Water Density=1013.1kg/m3@33DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-150mV2, Salinity=40000ppm.
11-Nov-16 20:00:00	Gas SG=0.640.
11-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
11-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.06mS@22.4degC,Water Density=1015.4kg/m3@24.3DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-127.7mV2, Salinity=40000ppm.
12-Nov-16 02:00:00	Gas SG=0.642
12-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.644.
12-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.58mS@22degC,Water Density=1015.1kg/m3@24DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-153.1mV2, Salinity=39000ppm.
12-Nov-16 08:00:00	Gas SG=0.638. Pumped 55.7 bbls from tank to pond.
12-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
12-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=65.03mS@29.3degC,Water Density=1013.3kg/m3@31DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-192.7mV2, Salinity=40000ppm.
12-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.
12-Nov-16 14:00:00	Gas SG=0.640.
12-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=3.5%, Gas SG=0.638.
12-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=60.54mS@26.1degC,Water Density=1014.5kg/m3@28.2DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-201.2mV2, Salinity=40000ppm.
12-Nov-16 20:00:00	Gas SG=0.640.
12-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
12-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.45mS@23.7degC,Water Density=1014.4kg/m3@25.5DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-213.5mV2, Salinity=39000ppm.
13-Nov-16 02:00:00	Gas SG=0.642.
13-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

13-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.88mS@20.9degC,Water Density=1016.1kg/m3@22.9DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-197.6mV2, Salinity=40000ppm.
13-Nov-16 08:00:00	Gas SG=0.638.
13-Nov-16 10:00:00	Pumped 58.9 bbls from tank to pond.
13-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.
13-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=64.23mS@28.4degC,Water Density=1013.7kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-188.2mV2, Salinity=40000ppm.
13-Nov-16 11:10:00	Flushed VX liquid port, observed no sand.
13-Nov-16 14:00:00	Gas SG=0.642.
13-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=3.5%, Gas SG=0.638.
13-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.17mS@26.8degC,Water Density=1014.5kg/m3@28.6DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-190mV2, Salinity=40000ppm.
13-Nov-16 20:00:00	Gas SG=0.640.
13-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
13-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.71mS@20.8degC,Water Density=1015.8kg/m3@22.8DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-217.3mV2, Salinity=40000ppm.
14-Nov-16 02:00:00	Gas SG=0.642.
14-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
14-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=53.94mS@20.8degC,Water Density=1015.4kg/m3@22.8DegC, Dissolved Oxygen=2.5%, Oxidation Reduction Potential=-215.6mV2, Salinity=39000ppm.
14-Nov-16 08:00:00	Gas SG=0.638.
14-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.
14-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=59.95mS@25.1degC,Water Density=1014.3kg/m3@26.3DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-229.4mV2, Salinity=40000ppm.
14-Nov-16 11:10:00	Flushed VX liquid port, observed no sand.
14-Nov-16 13:00:00	Pumped 60.7 bbls from tank to pond.
14-Nov-16 14:00:00	Gas SG=0.638.
14-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.
14-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=61.48mS@26degC,Water Density=1014.7kg/m3@27.3DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-184.5mV2, Salinity=40000ppm.
14-Nov-16 20:00:00	Gas SG=0.642.
14-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
14-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	Conductivity=54.91mS@20.8degC,Water Density=1015.8kg/m3@22.8DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-241.2mV2, Salinity=40000ppm.
15-Nov-16 02:00:00	Gas SG=0.642.
15-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
15-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=52.55mS@19.6degC,Water Density=1015.4kg/m3@21.6DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-242.4mV2, Salinity=39000ppm.
15-Nov-16 08:00:00	Gas SG=0.642.
15-Nov-16 08:15:00	SGS took Gas Samples from Separator Gas Outlet and Water Samples from Separator Oil Outlet.
15-Nov-16 08:45:00	SGS completed taking samples.
15-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
15-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=63.04mS@27.1degC,Water Density=1014.1kg/m3@28.2DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-200.1mV2, Salinity=41000ppm.
15-Nov-16 11:10:00	Flushed VX liquid port, observed trace of sand.
15-Nov-16 14:00:00	Gas SG=0.640. Pumped 52 bbls from tank to pond.
15-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
15-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=62.57mS@26.8degC,Water Density=1014.3kg/m3@27.7DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-206.4mV2, Salinity=41000ppm.
15-Nov-16 20:00:00	Gas SG=0.642.
15-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
15-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=53.48mS@19.4degC,Water Density=1016.1kg/m3@21.5DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-226.4mV2, Salinity=40000ppm.
16-Nov-16 02:00:00	Gas SG=0.642.
16-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
16-Nov-16 05:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=51.68mS@18degC,Water Density=1015.9kg/m3@20.1DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-249.8mV2, Salinity=40000ppm.
16-Nov-16 08:00:00	Gas SG=0.640.
16-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
16-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=65.88mS@28.7degC,Water Density=1014kg/m3@29.2DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-200.8mV2, Salinity=41000ppm.
16-Nov-16 11:10:00	Flushed VX liquid port, observed trace of sand.
16-Nov-16 14:00:00	Gas SG=0.640.
16-Nov-16 16:00:00	Pumped 53.8 bbls from tank to pond.
16-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

16-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=67.24mS@30.5degC,Water Density=1013.4kg/m3@31DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-194.3mV2, Salinity=41000ppm.
16-Nov-16 17:05:00	Vx computer needed to be restarted due to force update from windows.
16-Nov-16 17:30:00	Vx computer back online and InterAct data resumed.
16-Nov-16 20:00:00	Gas SG=0.642.
16-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.
16-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=54.16mS@19.8degC,Water Density=1015.7kg/m3@21.7DegC, Dissolved Oxygen=2%, Oxidation Reduction Potential=-228.1mV2, Salinity=40000ppm.
17-Nov-16 02:00:00	Gas SG=0.644.
17-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.644.
17-Nov-16 05:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=52.75mS@19.2degC,Water Density=1015.5kg/m3@21.1DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-224.6mV2, Salinity=40000ppm.
17-Nov-16 08:00:00	Gas SG=0.638.
17-Nov-16 10:00:00	Took ALS water sample from Separator oil line. EC=61.46@26.4degC, PH=6.1, 10825 bbls returned
17-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=65.65mS@29degC,Water Density=1013.2kg/m3@30.6DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-207.6mV2, Salinity=41000ppm.
17-Nov-16 11:00:00	Gas SG=0.638, CO2=4%, H2S=6ppm.
17-Nov-16 14:00:00	Gas SG=0.640.
17-Nov-16 17:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.640.
17-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=62.86mS@26.1degC,Water Density=1014.6kg/m3@28.2DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-197.6mV2, Salinity=41000ppm.
17-Nov-16 17:00:02	Took ISO tube gas sample #39 from Separator gas line. 76 psia @ 39.3degC.
17-Nov-16 17:10:00	Pumped 56.12 bbls from tank to pond.
17-Nov-16 20:00:00	Gas SG=0.642.
17-Nov-16 23:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.642.
17-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.90mS@22.3degC,Water Density=1014.2kg/m3@24.1DegC, Dissolved Oxygen=2.5%, Oxidation Reduction Potential=-223.2mV2, Salinity=40000ppm.
18-Nov-16 02:00:00	Gas SG=0.642.
18-Nov-16 05:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.642.
18-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.88mS@21degC,Water Density=1014.9kg/m3@22.9DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-230.5mV2, Salinity=40000ppm.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

18-Nov-16 08:00:00	Gas SG=0.638.
18-Nov-16 11:00:00	BSW=100% no solids, CO2=4%, H2S=6ppm, Gas SG=0.640.
18-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=65.8mS@28.9degC,Water Density=1012.7kg/m3@31DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-223.1mV2, Salinity=41000ppm.
18-Nov-16 11:00:02	Drained VX liquid port, found trace of sand.
18-Nov-16 12:27:00	Discussed maintenance procedure with Cactus.
18-Nov-16 13:00:00	Cactus started maintenance on anulus access valves.
18-Nov-16 14:26:00	Lifted 1.75" Orifice plate.
18-Nov-16 14:26:00	**End of MP.**
18-Nov-16 14:28:00	Shut in well at choke manifold due to wellhead maintenance job.
18-Nov-16 14:29:00	Closed oil outlet on Separator.
18-Nov-16 14:30:00	Cactus started maintenance on tree, closed master valve.
18-Nov-16 14:35:00	By-passed sand filter to prevent screens getting plugged with valve grease when well is re-opened.
18-Nov-16 14:45:00	Pumped 36.34 bbls from tank to pond.
18-Nov-16 16:00:00	Cactus finished tree maintenance.
18-Nov-16 16:08:00	Opened MV to closed Choke manifold.
18-Nov-16 16:10:00	Pre-flow meeting.
18-Nov-16 16:30:00	Opened well on 10/64" adjustable choke through Separator to gas flare.
18-Nov-16 16:34:00	Increased to 12/64" adjustable choke.
18-Nov-16 16:36:00	Increased to 16/64" adjustable choke.
18-Nov-16 16:41:00	Increased to 20/64" adjustable choke.
18-Nov-16 16:48:00	Increased to 24/64" adjustable choke.
18-Nov-16 16:54:00	Increased to 28/64" adjustable choke.
18-Nov-16 17:00:00	WHP increasing, well slugging.
18-Nov-16 17:04:00	Increased to 32/64" adjustable choke.
18-Nov-16 17:12:00	Increased to 36/64" adjustable choke.
18-Nov-16 17:13:00	Switched to 36/64" fixed choke.
18-Nov-16 18:00:00	BSW=100% no solids, CO2=4%, H2S=6ppm.
18-Nov-16 21:00:00	Passed flow through sand filter.
18-Nov-16 22:57:00	**MP on 36/64" Fixed Choke.**
18-Nov-16 22:57:00	Lowered 1.75" Orifice plate.
18-Nov-16 23:00:00	BSW=100% no solids, CO2=4%, H2S=8ppm, Gas SG=0.644.
18-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.36mS@23.2degC,Water Density=1013.1kg/m3@25.2DegC, Dissolved Oxygen=2.9%, Oxidation Reduction Potential=-243.5mV2, Salinity=38000ppm.
19-Nov-16 02:00:00	Gas SG=0.642.
19-Nov-16 05:00:00	BSW=100% no solids, CO2=4%, H2S=7ppm, Gas SG=0.642.
19-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.11mS@20.9degC,Water Density=1014.8kg/m3@22.8DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-250.5mV2, Salinity=40000ppm.
19-Nov-16 08:00:00	Gas SG=0.638.
19-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

19-Nov-16 11:00:01	Drained VX liquid port, found trace of sand.
19-Nov-16 11:00:02	Water sample from VX: pH=6.5, Electrical Conductivity=63.94mS@28.8degC,Water Density=1012.38kg/m3@30DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-247.2mV2, Salinity=40000ppm.
19-Nov-16 14:00:00	Gas SG=0.640.
19-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
19-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=64.48mS@27.8degC,Water Density=1013.9kg/m3@29.1DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-242.5mV2, Salinity=41000ppm.
19-Nov-16 20:00:00	Gas SG=0.642.
19-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.
19-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.78mS@23.1degC,Water Density=1013.5kg/m3@25.1DegC, Dissolved Oxygen=2.9%, Oxidation Reduction Potential=-242.3mV2, Salinity=40000ppm.
20-Nov-16 02:00:00	Gas SG=0.642.
20-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.644.
20-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.18mS@21degC,Water Density=1014.6kg/m3@23DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-249.8mV2, Salinity=40000ppm.
20-Nov-16 05:01:00	Pumped 71.3 bbls from tank to pond.
20-Nov-16 08:00:00	Gas SG=0.638.
20-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
20-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=64.73mS@27.9degC,Water Density=1013.5kg/m3@29DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-270mV2, Salinity=41000ppm.
20-Nov-16 11:05:00	Took ALS sample from Separator oil line, PH 6.1, EC=65.84mS @30.5degC, 10958bbls.
20-Nov-16 14:00:00	Gas SG=0.640.
20-Nov-16 14:20:00	Electrical Storm in area.
20-Nov-16 15:27:00	Noticed smoke a few km's from well site, possible fire from lightning strike.
20-Nov-16 15:45:00	Discussed ER plan and how to secure well with WSR, in event fire starts to pose a threat to the wellsite.
20-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.
20-Nov-16 17:01:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.29mS@22.9degC,Water Density=1013.9kg/m3@24.9DegC, Dissolved Oxygen=3.5%, Oxidation Reduction Potential=-193mV2, Salinity=40000ppm.
20-Nov-16 20:00:00	Gas SG=0.642.
20-Nov-16 22:05:00	Shut in the well at Wellhead Master valve due to bushfire coming close to the wellsite.
20-Nov-16 22:06:00	Lifted 1.75" Orifice plate.
20-Nov-16 22:06:00	**End of MP.**

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

20-Nov-16 22:07:00	Closed Choke manifold.
20-Nov-16 22:08:00	Closed wellhead Wing valve.
20-Nov-16 22:09:00	Closed SSV.
20-Nov-16 22:28:40	1.0927E-087.28467E-1011258.494490.00268530.0001790258.064 59872-3.333316.6670.2144821.17833.88327.099
21-Nov-16 02:56:00	Opened SSV.
21-Nov-16 02:59:00	Opened wellhead Wing valve.
21-Nov-16 03:00:00	Opened wellhead Master valve.
21-Nov-16 03:16:00	Opened well on 10/64" adjustable choke through Separator to gas flare.
21-Nov-16 03:20:00	Increased to 12/64" adjustable choke.
21-Nov-16 03:25:00	Increased to 16/64" adjustable choke.
21-Nov-16 03:30:00	Increased to 20/64" adjustable choke.
21-Nov-16 03:35:00	Increased to 24/64" adjustable choke.
21-Nov-16 03:40:00	Increased to 28/64" adjustable choke.
21-Nov-16 03:45:00	Increased to 32/64" adjustable choke.
21-Nov-16 03:50:00	Increased to 36/64" adjustable choke.
21-Nov-16 03:52:00	Switched to 36/64" fixed choke.
21-Nov-16 04:15:00	Bypassed sand filter, LH filter plugged after slug.
21-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.644.
21-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=45.59mS@21.6degC,Water Density=1008.8kg/m3@23.4DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-286.8mV2, Salinity=32000ppm.
21-Nov-16 06:18:00	Lined up sand filter to RH filter, closed by-pass.
21-Nov-16 06:20:00	By-pass valve only closing 17 out of 19 turns, indicating debris is cavity.
21-Nov-16 07:10:00	Greased and cycled sand filter by-pass valve to clear debris from valve cavity.
21-Nov-16 07:31:00	Closed SF by-pass valve, flowing through RH screen.
21-Nov-16 07:39:00	Lowered 1.75" Orifice plate, differential pressure above 70% range, lifted 1.75" Orifice plate.
21-Nov-16 07:40:00	Changed to 2" Orifice plate.
21-Nov-16 07:55:00	**MP on 36/64" Fixed Choke.**
21-Nov-16 07:55:00	Lowered 2" Orifice plate.
21-Nov-16 08:00:00	Differential across sand filter slowly increasing, indicating RH screen is starting to plug.
21-Nov-16 08:00:00	Gas SG=0.640.
21-Nov-16 08:30:00	Flushed LH sand filter with fresh water.
21-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.
21-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=62.13mS@27.2degC,Water Density=1012.2kg/m3@29.2DegC, Dissolved Oxygen=2.7%, Oxidation Reduction Potential=-217.1mV2, Salinity=40000ppm.
21-Nov-16 11:00:00	Flushed VX liquid port, found trace of sand and black grease like substance.
21-Nov-16 12:42:00	Lifted 2.0" Orifice plate.
21-Nov-16 12:42:00	**End of MP.**
21-Nov-16 12:43:00	Switched to 36/64" adjustable choke.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

21-Nov-16 12:43:00	**End of FP #3.**
21-Nov-16 12:44:00	**FP #4 Extended Production Test Flow on 40/64" Fixed Choke.**
21-Nov-16 12:44:00	Increased adjustable choke to 40/64".
21-Nov-16 12:45:00	Installed 40/64" choke bean in manifold.
21-Nov-16 12:49:00	Switched to 40/64" fixed choke.
21-Nov-16 13:00:00	Continued to flush LH sand filer with fresh water. Black grease like substance being found in returns. Possible valve grease from tree.
21-Nov-16 14:00:00	LH sand screen clean.
21-Nov-16 14:00:00	Gas SG=0.640.
21-Nov-16 14:06:38	Switched from RH sand screen to LH screen.
21-Nov-16 14:07:00	Differential pressure across sand screen back to normal range.
21-Nov-16 14:10:00	Started flushing RH sand screen with fresh water.
21-Nov-16 15:12:00	**MP on 40/64" Fixed Choke.**
21-Nov-16 15:12:00	Lowered 2.0" Orifice plate.
21-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.
21-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=66.25mS@30.7degC,Water Density=1011.5kg/m3@31.5DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-227.1mV2, Salinity=42000ppm.
21-Nov-16 17:10:00	Pumped 54.28 bbls from tank to pond.
21-Nov-16 20:00:00	Gas SG=0.642
21-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
21-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=59.24mS@24.2degC,Water Density=1013.6kg/m3@26.2DegC, Dissolved Oxygen=5.6%, Oxidation Reduction Potential=-190.6mV2, Salinity=40000ppm.
21-Nov-16 23:32:00	Lifted 2.0" Orifice plate due to bushfire coming close to the wellsite.
21-Nov-16 23:32:00	**End of MP.**
21-Nov-16 23:45:00	Discussed with WSR, kept flowing well and monitoring the bushfire closely.
22-Nov-16 00:01:00	**MP on 40/64" Fixed Choke.**
22-Nov-16 00:01:00	Lowered 2.0" Orifice plate.
22-Nov-16 01:22:00	Lifted 2.0" Orifice plate.
22-Nov-16 01:22:00	**End of MP.**
22-Nov-16 01:23:00	Shut in the well at wellhead Master valve due to bushfire coming close to the wellsite.
22-Nov-16 01:25:00	Closed Choke manifold.
22-Nov-16 01:27:00	Closed wellhead Wing valve.
22-Nov-16 01:28:00	Closed SSV.
22-Nov-16 05:45:00	Opened SSV.
22-Nov-16 05:47:00	Opened wellhead Wing valve.
22-Nov-16 05:48:00	Opened wellhead Master valve.
22-Nov-16 05:50:00	Opened well on 10/64" adjustable choke through Separator to gas flare.
22-Nov-16 05:55:00	Increased to 12/64" adjustable choke.
22-Nov-16 06:00:00	Increased to 16/64" adjustable choke.
22-Nov-16 06:05:00	Increased to 20/64" adjustable choke.
22-Nov-16 06:10:00	Increased to 24/64" adjustable choke.
22-Nov-16 06:15:00	Increased to 28/64" adjustable choke.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

22-Nov-16 06:20:00	Increased to 32/64" adjustable choke.
22-Nov-16 06:25:00	Increased to 36/64" adjustable choke.
22-Nov-16 06:30:00	Increased to 40/64" adjustable choke.
22-Nov-16 06:32:00	Switched to 40/64" fixed choke.
22-Nov-16 06:34:00	Passed flow through LH sand screen.
22-Nov-16 06:35:00	Opened Separator oil outler to tank.
22-Nov-16 08:00:00	Gas SG=0.638.
22-Nov-16 10:45:00	**MP on 40/64" Fixed Choke.**
22-Nov-16 10:45:00	Lowered 2.0" Orifice plate.
22-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.
22-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=61.35mS@29.6degC,Water Density=1010.3kg/m3@30DegC, Dissolved Oxygen=4.2%, Oxidation Reduction Potential=-198.1mV2, Salinity=37000ppm.
22-Nov-16 11:00:02	Drained VX liquid port, found approx. 1cc of sand.
22-Nov-16 15:30:00	Separator pressure spiked 10psi, lifted 2.0" Orifice plate.
22-Nov-16 15:30:00	**End of MP.**
22-Nov-16 15:33:37	Adjusted Separator pressure to 65psia.
22-Nov-16 16:13:00	**MP on 40/64" Fixed Choke.**
22-Nov-16 16:13:00	Separator stable, lowered 2.0" Orifice plate.
22-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.
22-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=61.84mS@27degC,Water Density=1012.6kg/m3@28DegC, Dissolved Oxygen=3.9%, Oxidation Reduction Potential=-195.1mV2, Salinity=40000ppm.
22-Nov-16 20:00:00	Gas SG=0.642.
22-Nov-16 20:35:00	STAF was freezing.
22-Nov-16 22:10:00	Re-started STAF and data acquisition.
22-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
22-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.42mS@23.7degC,Water Density=1013.3kg/m3@25.2DegC, Dissolved Oxygen=5.2%, Oxidation Reduction Potential=-218.4mV2, Salinity=39000ppm.
23-Nov-16 02:00:00	Gas SG=0.642.
23-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
23-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.13mS@23.6degC,Water Density=1013.2kg/m3@25.7DegC, Dissolved Oxygen=5.1%, Oxidation Reduction Potential=-210.3mV2, Salinity=40000ppm.
23-Nov-16 07:25:00	Started raining at well site
23-Nov-16 08:00:00	Gas SG=0.638.
23-Nov-16 08:10:00	Pumped 58.8 bbls from tank to pond.
23-Nov-16 11:00:00	Took ALS samples from Separator oil line. PH 6.2, EC=61.438m/s @ 27.6deg C, 11071bbls returned.
23-Nov-16 11:00:00	BSW=100% no solids, H2S=9ppm, CO2=4.5%, Gas SG=0.638.
23-Nov-16 11:00:00	Attempted to flush VX liquid port, found plugged.
23-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	Conductivity=60.13mS@25.1degC,Water Density=1013.4kg/m3@27DegC, Dissolved Oxygen=5.0%, Oxidation Reduction Potential=-197mV2, Salinity=40000ppm.
23-Nov-16 12:00:00	Un-plugged VX liquid port and flushed. Found approx. 90cc of sand.
23-Nov-16 14:00:00	Gas SG=0.640.
23-Nov-16 17:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.640.
23-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=61.94mS@26.6degC,Water Density=1012.6kg/m3@27.5DegC, Dissolved Oxygen=4.9%, Oxidation Reduction Potential=-249mV2, Salinity=40000ppm.
23-Nov-16 19:42:00	Lifted 2.0" Orifice plate.
23-Nov-16 19:42:00	**End of MP.**
23-Nov-16 19:43:00	Switched to 40/64" adjustable choke.
23-Nov-16 19:44:00	**End of FP #4.**
23-Nov-16 19:45:00	**FP #5 Extended Production Test Flow on 128/64" Adjustable Choke.**
23-Nov-16 19:45:00	Increased to 44/64" adjustable choke.
23-Nov-16 19:48:00	Increased to 48/64" adjustable choke.
23-Nov-16 19:51:00	Increased to 52/64" adjustable choke.
23-Nov-16 19:55:00	Increased to 56/64" adjustable choke.
23-Nov-16 19:58:00	Increased to 60/64" adjustable choke.
23-Nov-16 20:01:00	Increased to 64/64" adjustable choke.
23-Nov-16 20:05:00	Increased to 68/64" adjustable choke.
23-Nov-16 20:10:00	Increased to 76/64" adjustable choke.
23-Nov-16 20:16:00	Increased to 84/64" adjustable choke.
23-Nov-16 20:20:00	Increased to 100/64" adjustable choke.
23-Nov-16 20:25:00	Increased to 128/64" adjustable choke.
23-Nov-16 20:31:00	**MP on 128/64" Adjustable Choke.**
23-Nov-16 20:31:00	Lowered 2.0" Orifice plate.
23-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=3%, Gas SG=0.642.
23-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=60.08mS@24.9degC,Water Density=1012.8kg/m3@26.9DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-233.4mV2, Salinity=40000ppm.
24-Nov-16 02:00:00	Gas SG=0.642
24-Nov-16 05:00:00	BSW=100% no solids, H2S=5ppm, CO2=3%, Gas SG=0.642.
24-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.92mS@24.2degC,Water Density=1013.2kg/m3@26.2DegC, Dissolved Oxygen=3.2%, Oxidation Reduction Potential=-235.6mV2, Salinity=40000ppm.
24-Nov-16 06:00:00	Discussed with client, informed them that at current choke size we are out of critical flow.
24-Nov-16 06:24:00	Lifted 2.0" Orifice plate.
24-Nov-16 06:24:00	**End of MP.**
24-Nov-16 06:25:00	Lowered Separator GasP from 64psia to 38psia.
24-Nov-16 06:26:00	Upstream choke pressure dropped with Separator pressure, confirming choke ineffective.
24-Nov-16 07:13:00	**End of FP #5.**

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

24-Nov-16 07:14:00	**FP #6 Extended Production Test Flow on 48/64" Fixed Choke.**
24-Nov-16 07:14:00	Started choking back to 48/64" adjustable choke.
24-Nov-16 07:28:00	Choke at 48/64" adjustable.
24-Nov-16 08:00:00	Gas SG=0.642
24-Nov-16 09:30:00	Installed 48/64" fixed choke bean.
24-Nov-16 09:40:00	Switched to 48/64" fixed choke.
24-Nov-16 10:10:00	**MP on 48/64" Fixed Choke.**
24-Nov-16 10:10:00	Lowered 2.0" Orifice plate.
24-Nov-16 11:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.638.
24-Nov-16 11:00:01	Water sample from VX: pH=6.6, Electrical Conductivity=63.07mS@27.3degC,Water Density=1012kg/m3@28DegC, Dissolved Oxygen=3.6%, Oxidation Reduction Potential=-183.3mV2, Salinity=40000ppm.
24-Nov-16 11:10:00	Pumped 55.5 bbls from tank to pond.
24-Nov-16 11:12:00	Flushed VX liquid port, found 230cc of sand.
24-Nov-16 14:00:00	Gas SG=0.640.
24-Nov-16 17:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.642.
24-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=65.24mS@28.4degC,Water Density=1012.4kg/m3@30DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-216mV2, Salinity=41000ppm.
24-Nov-16 20:00:00	Gas SG=0.642
24-Nov-16 23:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.642.
24-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.87mS@22degC,Water Density=1014.7kg/m3@24.3DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-215.5mV2, Salinity=42000ppm.
25-Nov-16 02:00:00	Gas SG=0.642
25-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
25-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.32mS@22.1degC,Water Density=1014.3kg/m3@24.1DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-205.7mV2, Salinity=41000ppm.
25-Nov-16 08:00:00	Gas SG=0.638.
25-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.
25-Nov-16 11:00:01	Water sample from VX: pH=6.6, Electrical Conductivity=68.03mS@30.5degC,Water Density=1012kg/m3@31DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-226mV2, Salinity=41000ppm.
25-Nov-16 11:10:00	Flushed VX liquid port, found 10cc of sand.
25-Nov-16 14:00:00	Gas SG=0.640.
25-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.
25-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=68.19mS@31.9degC,Water Density=1010.5kg/m3@32.5DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-231mV2, Salinity=40000ppm.
25-Nov-16 17:10:00	Pumped 52 bbls from tank to pond.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

25-Nov-16 20:00:00	Gas SG=0.642.
25-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
25-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=60.59mS@24.5degC,Water Density=1013.1kg/m3@26.6DegC, Dissolved Oxygen=5.1%, Oxidation Reduction Potential=-229.1mV2, Salinity=41000ppm.
26-Nov-16 02:00:00	Gas SG=0.642.
26-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.
26-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.17mS@24.1degC,Water Density=1012.2kg/m3@26.3DegC, Dissolved Oxygen=4.6%, Oxidation Reduction Potential=-235.7mV2, Salinity=40000ppm.
26-Nov-16 08:00:00	Gas SG=0.638.
26-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.
26-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.36mS@30.5degC,Water Density=1012.2kg/m3@31DegC, Dissolved Oxygen=2.7%, Oxidation Reduction Potential=-205.3mV2, Salinity=41000ppm.
26-Nov-16 11:00:01	Flushed VX liquid port, found 5cc of sand.
26-Nov-16 11:10:00	Took ALS sample bottles from Separator oil line, pH=6.3, EC=66.7m/S@29.6deg C, 11207 bbls returned.
26-Nov-16 14:00:00	Gas SG=0.638.
26-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.
26-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.68mS@32degC,Water Density=1010.7kg/m3@32.7DegC, Dissolved Oxygen=3.1%, Oxidation Reduction Potential=-200.3mV2, Salinity=40000ppm.
26-Nov-16 20:00:00	Gas SG=0.642.
26-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.
26-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=59.89mS@23.1degC,Water Density=1013.7kg/m3@25.4DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-225.9mV2, Salinity=41000ppm.
27-Nov-16 02:00:00	Gas SG=0.642.
27-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.
27-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.68mS@21.5degC,Water Density=1013.4kg/m3@23.8DegC, Dissolved Oxygen=4.8%, Oxidation Reduction Potential=-195.7mV2, Salinity=41000ppm.
27-Nov-16 05:10:00	Pumped 70.4 bbls from tank to pond.
27-Nov-16 08:00:00	Gas SG=0.640.
27-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2 4%, Gas SG=0.640.
27-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.55mS@30.5degC,Water Density=1011.4kg/m3@31DegC, Dissolved Oxygen=3.1%, Oxidation Reduction Potential=-220mV2, Salinity=41000ppm.
27-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

27-Nov-16 14:00:00	Gas SG=0.640.
27-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
27-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.22mS@31.4degC,Water Density=1010.8kg/m3@33DegC, Dissolved Oxygen=3.7%, Oxidation Reduction Potential=-226mV2, Salinity=41000ppm.
27-Nov-16 20:00:00	Gas SG=0.642.
27-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
27-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=60.14mS@24degC,Water Density=1012.8kg/m3@26.3DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-243.7mV2, Salinity=41000ppm.
28-Nov-16 02:00:00	Gas SG=0.640.
28-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.
28-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.87mS@20.8degC,Water Density=1014kg/m3@23.2DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-197.6mV2, Salinity=42000ppm.
28-Nov-16 08:00:00	Gas SG 0.638.
28-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.
28-Nov-16 11:00:10	Water sample from VX: pH=6.6 Electrical Conductivity=70.06mS@31degC,Water Density=1012.4kg/m3@31.4DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-209.3mV2, Salinity=42000ppm.
28-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.
28-Nov-16 13:05:00	Gas flare blown out by gust of wind.
28-Nov-16 13:10:00	Re-lit gas flare.
28-Nov-16 14:00:00	Gas SG 0.640.
28-Nov-16 16:00:00	Took ALS water sample from separator. PH 6.3, EC 73.77m/s @ 34.2 deg C 11296 bbls returned.
28-Nov-16 17:00:00	BSW 100% No Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
28-Nov-16 17:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=69.7mS@31.8degC,Water Density=1011.5kg/m3@32.5DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-195.1mV2, Salinity=41000ppm.
28-Nov-16 20:00:00	Gas SG 0.640.
28-Nov-16 23:00:00	BSW 100% Trace Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
28-Nov-16 23:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=59.42mS@23.9degC,Water Density=1012.5kg/m3@24.0DegC, Dissolved Oxygen=3.2%, Oxidation Reduction Potential=-258.4mV2, Salinity=41000ppm.
29-Nov-16 02:00:00	Pumped 43.7 bbls from tank to pond.
29-Nov-16 02:00:00	Gas SG 0.642.
29-Nov-16 05:00:00	BSW 100% Trace Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
29-Nov-16 05:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=59.30mS@24.1degC,Water Density=1012.5kg/m3@25.3DegC, Dissolved Oxygen=2.5%, Oxidation

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

	Reduction Potential=-231.9mV2, Salinity=41000ppm.
29-Nov-16 08:00:00	Gas SG 0.640.
29-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.
29-Nov-16 11:00:00	Flushed VX liquid port, found 1cc of sand.
29-Nov-16 11:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=70.08mS@31.2degC,Water Density=1011.4kg/m3@32DegC, Dissolved Oxygen=1.8%, Oxidation Reduction Potential=-231.4mV2, Salinity=41000ppm.
29-Nov-16 14:00:00	Gas SG 0.640.
29-Nov-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4.5%, Gas SG 0.642.
29-Nov-16 17:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=69.82mS@31.4degC,Water Density=1011.2kg/m3@33.2DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-232mV2, Salinity=42000ppm.
29-Nov-16 20:00:00	Gas SG 0.642.
29-Nov-16 23:00:00	BSW 100% no solids, H2S 10ppm, CO2 4%, Gas SG 0.642
29-Nov-16 23:00:01	Water sample from VX: pH=6.5 Electrical Conductivity=58.28mS@22.7degC,Water Density=1012.2kg/m3@25.1DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-209.7mV2, Salinity=41000ppm.
30-Nov-16 02:00:00	Gas SG 0.640.
30-Nov-16 03:00:00	Pumped 31.28 bbls from tank to pond.
30-Nov-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
30-Nov-16 05:00:01	Water sample from VX: pH=6.6 Electrical Conductivity=59.83mS@23.9degC,Water Density=1012.4kg/m3@26.5DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-191.7mV2, Salinity=41000ppm.
30-Nov-16 08:00:00	Gas SG 0.642.
30-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.
30-Nov-16 11:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=67.5.m/S@29.6degC,Water Density=1011.9kg/m3@29.9DegC, Dissolved Oxygen=2.1%, Oxidation Reduction Potential=-169.2mV2, Salinity=42000ppm.
30-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.
30-Nov-16 14:00:00	Gas SG 0.642.
30-Nov-16 15:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG0.642.
30-Nov-16 15:00:01	Took Isotube sample #40 from separator gas line at 44psia 38.5degC.
30-Nov-16 15:00:02	Took ALS sample from separator oil line, PH 6.3, EC 74.6m/s @ 35degC, 11369 bbls returned.
30-Nov-16 15:00:03	Water sample from VX: pH=6.6 Electrical Conductivity=69.8m/S@31.4degC,Water Density=1011.4kg/m3@33DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-223.1mV2, Salinity=42000ppm.
30-Nov-16 16:55:00	Raised 2" Orifice Plate.
30-Nov-16 16:55:00	**End of MP.**
30-Nov-16 17:02:28	Shut in well at production wing valve.
30-Nov-16 17:03:00	Inflow test production wing valve.

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Sequence of Events

30-Nov-16 17:03:00	**End of FP #6.**
30-Nov-16 17:21:00	Closed SSV.
02-Dec-16 06:28:00	Stopped monitoring casing pressure, shut down STAF.
02-Dec-16 06:30:00	**End of Test.**

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Summary of Results

Oil Company : Origin Energy
Country : Australia
Field : Beetaloo
Well : Amungee NW-1H
Test Type : Extended Production Test
Test Date : 4 Oct to 30 Nov 2016
Report Number : 2016-10

Client Representative : Edward Wong
Schlumberger Representative : Mark Robertson

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Summary of Results

Amungee NW-1H Extended Production Test

Period	Start Time	Duration	ChokeSize	Whp	Wht	Csgp	BSW	WhCO2	WhH2S	GasQ	qg_sc	qw_sc
			(1/64 in)	(psia)	(°F)	(psia)	(%)	(%)	(ppm)	(MMscf/d)	(MMscf/d)	(STB/d)
1	04-Oct-16 10:54:00	385h58'	Var-28	341	40	-2	100	3	4	0.964	1.000	113
2	20-Oct-16 12:53:00	148h03'	32	251	31	5	100	4	8	0.976	1.075	96
3	26-Oct-16 16:57:00	619h46'	36	188	40	-1	100	4	6	1.021	0.953	108
4	21-Nov-16 12:44:00	55h00'	40	166	30	10	100	4	9	1.100	1.093	93
5	23-Nov-16 19:45:00	11h28'	128	97	27	14	100	3	6	1.121	1.097	154
6	24-Nov-16 07:14:00	153h49'	48	133	39	5	100	4	8	1.085	1.048	104

Period	Flow Period Type
1	FP #1 Extended Production Test Flow on various choke sizes.
2	FP #2 Extended Production Test Flow on 32/64" Fixed Choke.
3	FP #3 Extended Production Test Flow on 36/64" Fixed Choke.
4	FP #4 Extended Production Test Flow on 40/64" Fixed Choke.
5	FP #5 Extended Production Test Flow on 128/64" Adjustable Choke.
6	FP #6 Extended Production Test Flow on 48/64" Fixed Choke.

Note:
All numbers are taken from the last 2 hrs from each flow period from where both Separator and Vx gas rate are available.

Note : Standard Conditions: 14.73 (psia) at 60 (°F).

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Main Results

Oil Company : Origin Energy
Country : Australia
Field : Beetaloo
Well : Amungee NW-1H
Test Type : Extended Production Test
Test Date : 4 Oct to 30 Nov 2016
Report Number : 2016-10

Client Representative : Edward Wong
Schlumberger Representative : Mark Robertson

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

FP #1 EPT Flow - Data

Flow on various choke sizes

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
04-Oct-16 10:54:00	FP #1 Extended Production Test Flow on various choke sizes.											
04-Oct-16 10:54:00	Open well at Choke manifold on 8/64" adjustable choke through Seperator to Tank.											
04-Oct-16 10:54:00	8	5.8	922	26	14							
04-Oct-16 10:55:00	Increased adjustable choke to 10/64".											
04-Oct-16 10:56:00	Put upstream lo-pilot on line.											
04-Oct-16 11:00:00	10	5.8	1612	27	17							
04-Oct-16 11:15:00	10	8.9	1335	30	44							
04-Oct-16 11:30:00	Gas sample taken SG=0.638, CO2=3.2%, H2S=0ppm.											
04-Oct-16 11:30:00	10	29.5	1113	31	40			3.20	0.0			
04-Oct-16 11:45:00	10	146.7	948	32	36			3.20	0.0			
04-Oct-16 11:52:00	Rocked choke debris in choke.											
04-Oct-16 12:00:00	Water slug on surface											
04-Oct-16 12:00:00	10	230.6	1063	32	14			3.20	0.0			
04-Oct-16 12:02:00	Increased adjustable choke to 12/64".											
04-Oct-16 12:05:00	Increased adjustable choke to 14/64".											
04-Oct-16 12:15:00	14	226.4	1355	30	44			3.20	0.0			
04-Oct-16 12:30:00	14	208.5	1581	31	43			3.20	0.0			6290.5
04-Oct-16 12:45:00	BSW=100%, CO2=3.8%, H2S=0ppm.											
04-Oct-16 12:45:00	14	264.5	1481	32	54	100		3.80	0.0			6291.8
04-Oct-16 13:00:00	14	367.5	1397	33	72	100		3.80	0.0			6293.1
04-Oct-16 13:10:00	Water slug on surface.											
04-Oct-16 13:15:00	BSW=100% water, CO2=3.8%, H2S=0ppm, Gas SG=0.634.											
04-Oct-16 13:15:00	14	434.7	1496	33	59	100		3.80	0.0			6294.4
04-Oct-16 13:30:00	14	427.9	1763	33	41	100		3.80	0.0			6295.7
04-Oct-16 13:45:00	14	399.2	1979	33	49	100		3.80	0.0			6296.9
04-Oct-16 14:00:00	BSW=100% water, pH=6, CO2=3.8%, H2S=0ppm, Gas SG=0.634.											
04-Oct-16 14:00:00	Electrical Conductivity=20.64mS, Water Density=993.1 kg/m3 @36.7degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-354 mV2.											
04-Oct-16 14:00:00	14	390.6	1965	34	70	100	6.0	3.80	0.0			6298.2
04-Oct-16 14:15:00	14	431.8	1827	34	77	100	6.0	3.80	0.0			6299.5
04-Oct-16 14:30:00	14	479.3	1857	34	73	100	6.0	3.80	0.0			6300.8
04-Oct-16 14:45:00	14	484.6	1931	34	76	100	6.0	3.80	0.0			6302.1
04-Oct-16 15:00:00	BSW=100% water, pH=6.5, CO2=4%, H2S=0ppm, Gas SG=0.636.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
04-Oct-16 15:00:00	Electrical Conductivity=20.64mS, Water Density=1002.8 kg/m3 @30 degC, Dissolved Oxygen=0.8%S, Oxidation Reduction Potential=-382.6 mV2.											
04-Oct-16 15:00:00	14	482.1	1954	34	76	100	6.5	4.00	0.0			6303.4
04-Oct-16 15:15:00	14	477.9	1981	34	78	100	6.5	4.00	0.0			6304.6
04-Oct-16 15:30:00	14	470.0	1989	34	78	100	6.5	4.00	0.0			6305.9
04-Oct-16 15:45:00	14	467.5	1987	34	76	100	6.5	4.00	0.0			6307.2
04-Oct-16 16:00:00	Took Isotube gas sample #16 @ 60 psi, 25 degC.											
04-Oct-16 16:00:00	14	467.1	1985	34	77	100	6.5	4.00	0.0			6308.5
04-Oct-16 16:15:00	14	464.1	1987	33	77	100	6.5	4.00	0.0			6309.8
04-Oct-16 16:20:00	Increased adjustable choke to 15/64".											
04-Oct-16 16:30:00	15	504.2	1824	33	82	100	6.5	4.00	0.0			6311.1
04-Oct-16 16:45:00	15	601.1	1786	33	65	100	6.5	4.00	0.0			6312.3
04-Oct-16 17:00:00	BSW=100% water, pH=7, CO2=3%, H2S=4ppm, Gas SG=0.638.											
04-Oct-16 17:00:00	Electrical Conductivity=38.64mS, Water Density=1010.5 kg/m3 @29.4 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-211 mV2.											
04-Oct-16 17:00:00	15	610.7	1889	33	86	100	7.0	3.00	4.0			6313.6
04-Oct-16 17:15:00	15	616.8	1854	32	89	100	7.0	3.00	4.0			6314.9
04-Oct-16 17:30:00	15	637.6	1879	32	83	100	7.0	3.00	4.0			6316.2
04-Oct-16 17:45:00	15	640.6	1894	31	87	100	7.0	3.00	4.0			6317.5
04-Oct-16 17:50:00	Increased adjustable choke to 16/64".											
04-Oct-16 18:00:00	BSW=100%, pH=7, CO2=3%, H2S=4ppm, Gas SG=0.638.											
04-Oct-16 18:00:00	16	681.9	1775	31	90	100	7.0	3.00	4.0			6318.8
04-Oct-16 18:15:00	16	737.0	1813	31	86	100	7.0	3.00	4.0			6320.0
04-Oct-16 18:30:00	16	734.3	1862	31	92	100	7.0	3.00	4.0			6321.3
04-Oct-16 18:45:00	16	737.2	1824	31	97	100	7.0	3.00	4.0			6322.6
04-Oct-16 19:00:00	Started bleeding off casing pressure.											
04-Oct-16 19:00:00	Electrical Conductivity=39.1mS, Water Density=1011.6 kg/m3 @27.6 degC, Dissolved Oxygen=0.3%S, Oxidation Reduction Potential=-198.3 mV2.											
04-Oct-16 19:00:00	BSW=100%, pH=7, CO2=3%, H2S=2ppm, Gas SG=0.644.											
04-Oct-16 19:00:00	16	734.2	1824	31	96	100	7.0	3.00	2.0			6323.9
04-Oct-16 19:03:00	Increased adjustable choke to 17/64".											
04-Oct-16 19:10:00	Stopped bleeding off casing pressure.											
04-Oct-16 19:15:00	17	94.2	1795	31	99	100	7.0	3.00	2.0			6325.2
04-Oct-16 19:30:00	17	117.4	1761	31	99	100	7.0	3.00	2.0			6326.5
04-Oct-16 19:45:00	17	132.0	1770	30	97	100	7.0	3.00	2.0			6327.7
04-Oct-16 20:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.644.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
04-Oct-16 20:00:00	17	144.3	1767	31	102	100	7.0	3.00	3.0			6329.0
04-Oct-16 20:08:00	Increased adjustable choke to 18/64".											
04-Oct-16 20:15:00	18	163.4	1684	31	99	100	7.0	3.00	3.0			6330.3
04-Oct-16 20:30:00	18	206.0	1703	31	97	100	7.0	3.00	3.0			6331.6
04-Oct-16 20:45:00	18	200.1	1767	31	105	100	7.0	3.00	3.0			6332.9
04-Oct-16 21:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.642.											
04-Oct-16 21:00:00	Electrical Conductivity=22.24mS, Water Density=1016.3 kg/m3 @17 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-191.8 mV2.											
04-Oct-16 21:00:00	18	188.0	1742	31	106	100	7.0	3.00	3.0			6334.1
04-Oct-16 21:06:00	Increased adjustable choke to 19/64".											
04-Oct-16 21:15:00	19	219.5	1571	31	102	100	7.0	3.00	3.0			6335.3
04-Oct-16 21:30:00	19	288.4	1614	31	100	100	7.0	3.00	3.0			6336.5
04-Oct-16 21:45:00	19	279.7	1684	31	105	100	7.0	3.00	3.0			6337.7
04-Oct-16 22:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.642.											
04-Oct-16 22:00:00	19	267.6	1656	31	109	100	7.0	3.00	3.0			6338.8
04-Oct-16 22:15:00	19	274.1	1640	31	105	100	7.0	3.00	3.0			6339.5
04-Oct-16 22:30:00	19	274.0	1634	31	105	100	7.0	3.00	3.0			6340.2
04-Oct-16 22:45:00	19	272.1	1610	30	105	100	7.0	3.00	3.0			6340.9
04-Oct-16 23:00:00	Gas Sample Taken CO2=2.5%, H2S=2ppm, Gas SG=0.642.											
04-Oct-16 23:00:00	19	276.7	1585	30	106	100	7.0	2.50	2.0			6341.6
04-Oct-16 23:15:00	19	285.3	1556	30	106	100	7.0	2.50	2.0			6342.4
04-Oct-16 23:30:00	19	299.8	1526	30	108	100	7.0	2.50	2.0			6343.3
04-Oct-16 23:37:00	Decreased adjustable choke to 18/64".											
04-Oct-16 23:38:00	Decreased adjustable choke to 17/64".											
04-Oct-16 23:40:00	Decreased adjustable choke to 16/64".											
04-Oct-16 23:42:00	Decreased adjustable choke to 15/64".											
04-Oct-16 23:45:00	15	317.5	1492	30	101	100	7.0	2.50	2.0			6344.2
04-Oct-16 23:49:00	Started bleeding off casing pressure.											
04-Oct-16 23:51:00	Decreased adjustable choke to 14/64".											
05-Oct-16 00:00:00	Gas Sample Taken CO2=3%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 00:00:00	14	218.0	1538	30	97	100	7.0	3.00	2.0			6345.1
05-Oct-16 00:15:00	14	117.6	1552	30	102	100	7.0	3.00	2.0			6345.7
05-Oct-16 00:18:00	Stopped bleeding off casing pressure.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
05-Oct-16 00:30:00	14	99.9	1517	30	102	100	7.0	3.00	2.0			6346.2
05-Oct-16 00:36:00	Decreased adjustable choke to 13/64".											
05-Oct-16 00:45:00	13	97.2	1527	29	97	100	7.0	3.00	2.0			6346.8
05-Oct-16 01:00:00	Gas Sample Taken CO2=3%, H2S=2ppm, Gas SG=0.643.											
05-Oct-16 01:00:00	13	91.2	1524	29	99	100	7.0	3.00	2.0			6347.4
05-Oct-16 01:15:00	13	83.5	1500	29	98	100	7.0	3.00	2.0			6348.1
05-Oct-16 01:17:00	Decreased adjustable choke to 12/64".											
05-Oct-16 01:30:00	12	74.2	1549	28	94	100	7.0	3.00	2.0			6348.8
05-Oct-16 01:45:00	12	59.4	1573	28	97	100	7.0	3.00	2.0			6349.5
05-Oct-16 02:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.643.											
05-Oct-16 02:00:00	12	47.8	1553	28	97	100	7.0	2.00	2.0			6350.1
05-Oct-16 02:15:00	12	42.8	1522	28	94	100	7.0	2.00	2.0			6350.8
05-Oct-16 02:24:00	Decreased adjustable choke to 11/64".											
05-Oct-16 02:30:00	11	39.0	1533	27	91	100	7.0	2.00	2.0			6351.5
05-Oct-16 02:45:00	11	30.4	1563	27	94	100	7.0	2.00	2.0			6352.2
05-Oct-16 03:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 03:00:00	11	27.0	1546	27	93	100	7.0	2.00	2.0			6352.9
05-Oct-16 03:15:00	Decreased adjustable choke to 10/64".											
05-Oct-16 03:15:00	10	24.2	1514	26	93	100	7.0	2.00	2.0			6353.2
05-Oct-16 03:30:00	10	21.1	1546	26	88	100	7.0	2.00	2.0			6353.6
05-Oct-16 03:45:00	10	17.8	1568	25	87	100	7.0	2.00	2.0			6354.0
05-Oct-16 04:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 04:00:00	10	15.5	1577	24	87	100	7.0	2.00	2.0			6354.3
05-Oct-16 04:11:00	Increased adjustable choke to 12/64".											
05-Oct-16 04:15:00	12	12.2	1488	24	99	100	7.0	2.00	2.0			6354.8
05-Oct-16 04:24:00	Decreased adjustable choke to 11/64".											
05-Oct-16 04:30:00	11	18.3	1324	25	88	100	7.0	2.00	2.0			6355.3
05-Oct-16 04:37:00	Increased adjustable choke to 12/64".											
05-Oct-16 04:45:00	12	18.6	1430	26	94	100	7.0	2.00	2.0			6355.8
05-Oct-16 05:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 05:00:00	12	18.3	1410	26	96	100	7.0	2.00	2.0			6356.3
05-Oct-16 05:01:00	Increased adjustable choke to 13/64".											
05-Oct-16 05:15:00	13	24.2	1285	26	93	100	7.0	2.00	2.0			6357.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
05-Oct-16 05:30:00	13	30.1	1371	27	94	100	7.0	2.00	2.0			6358.6
05-Oct-16 05:33:00	Increased adjustable choke to 14/64".											
05-Oct-16 05:45:00	14	33.0	1298	27	102	100	7.0	2.00	2.0			6359.8
05-Oct-16 06:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 06:00:00	14	42.0	1324	27	96	100	7.0	2.00	2.0			6361.0
05-Oct-16 06:15:00	14	42.0	1332	27	101	100	7.0	2.00	2.0			6362.1
05-Oct-16 06:30:00	14	42.0	1309	27	100	100	7.0	2.00	2.0			6363.3
05-Oct-16 06:34:00	Increased adjustable choke to 15/64".											
05-Oct-16 06:45:00	15	53.6	1232	28	100	100	7.0	2.00	2.0			6364.5
05-Oct-16 07:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 07:00:00	15	74.2	1244	29	99	100	7.0	3.50	3.5			6365.6
05-Oct-16 07:13:00	Increased adjustable choke to 16/64".											
05-Oct-16 07:15:00	16	77.2	1211	30	109	100	7.0	3.50	3.5			6366.6
05-Oct-16 07:30:00	16	108.6	1159	30	101	100	7.0	3.50	3.5			6367.6
05-Oct-16 07:45:00	16	120.2	1201	31	102	100	7.0	3.50	3.5			6368.6
05-Oct-16 07:54:00	Switched flow to 16/64" fixed choke.											
05-Oct-16 08:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 08:00:00	16	117.9	1230	31	91	100	7.0	3.50	3.5			6369.5
05-Oct-16 08:15:00	16	97.0	1298	32	91	100	7.0	3.50	3.5			6370.5
05-Oct-16 08:30:00	16	70.9	1273	32	97	100	7.0	3.50	3.5			6371.5
05-Oct-16 08:45:00	16	73.8	1184	32	95	100	7.0	3.50	3.5			6372.5
05-Oct-16 09:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 09:00:00	16	71.1	1222	32	86	100	7.0	3.50	3.5			6373.4
05-Oct-16 09:15:00	16	59.2	1215	32	89	100	7.0	3.50	3.5			6374.5
05-Oct-16 09:30:00	16	62.1	1180	32	83	100	7.0	3.50	3.5			6375.6
05-Oct-16 09:45:00	16	59.3	1197	33	81	100	7.0	3.50	3.5			6376.6
05-Oct-16 10:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 10:00:00	16	56.3	1175	33	86	100	7.0	3.50	3.5			6377.7
05-Oct-16 10:15:00	16	56.2	1167	34	80	100	7.0	3.50	3.5			6378.6
05-Oct-16 10:30:00	16	53.4	1177	34	81	100	7.0	3.50	3.5			6379.5
05-Oct-16 10:45:00	16	53.6	1152	35	80	100	7.0	3.50	3.5			6380.4
05-Oct-16 11:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 11:00:00	16	53.4	1166	35	75	100	7.0	3.50	3.5			6381.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
05-Oct-16 11:15:00	16	50.3	1149	35	81	100	7.0	3.50	3.5			6382.0
05-Oct-16 11:30:00	16	50.5	1145	35	77	100	7.0	3.50	3.5			6382.8
05-Oct-16 11:45:00	16	47.3	1144	36	78	100	7.0	3.50	3.5			6383.6
05-Oct-16 12:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 12:00:00	16	50.4	1133	36	76	100	7.0	3.50	3.5			6384.4
05-Oct-16 12:15:00	16	47.5	1138	36	77	100	7.0	3.50	3.5			6385.4
05-Oct-16 12:30:00	16	47.1	1124	36	77	100	7.0	3.50	3.5			6386.5
05-Oct-16 12:45:00	16	47.3	1120	36	77	100	7.0	3.50	3.5			6387.6
05-Oct-16 13:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640.											
05-Oct-16 13:00:00	16	44.0	1113	36	78	100	7.0	3.75	3.5			6388.6
05-Oct-16 13:15:00	16	47.2	1102	36	77	100	7.0	3.75	3.5			6389.7
05-Oct-16 13:30:00	16	47.8	1106	36	75	100	7.0	3.75	3.5			6390.7
05-Oct-16 13:45:00	16	44.0	1105	36	73	100	7.0	3.75	3.5			6391.7
05-Oct-16 14:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640.											
05-Oct-16 14:00:00	16	47.2	1106	36	69	100	7.0	3.75	3.5			6392.7
05-Oct-16 14:15:00	16	44.1	1098	37	74	100	7.0	3.75	3.5			6393.7
05-Oct-16 14:30:00	16	44.6	1094	37	72	100	7.0	3.75	3.5			6394.7
05-Oct-16 14:45:00	16	43.5	1092	36	76	100	7.0	3.75	3.5			6395.7
05-Oct-16 15:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640. Water Density=1012.5 kg/m3 @ 28.4degC.											
05-Oct-16 15:00:00	16	44.4	1083	36	74	100	7.0	3.75	3.5			6396.6
05-Oct-16 15:15:00	16	44.2	1081	36	74	100	7.0	3.75	3.5			6397.8
05-Oct-16 15:30:00	16	44.4	1085	36	72	100	7.0	3.75	3.5			6398.9
05-Oct-16 15:45:00	16	44.2	1074	36	72	100	7.0	3.75	3.5			6400.0
05-Oct-16 16:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.											
05-Oct-16 16:00:00	Took Isotube gas sample #17 @ 78 psi, 32 degC.											
05-Oct-16 16:00:00	16	44.4	1082	36	71	100	7.0	3.75	3.5			6401.1
05-Oct-16 16:15:00	16	44.4	1069	36	73	100	7.0	3.75	3.5			6402.2
05-Oct-16 16:30:00	16	44.4	1074	35	69	100	7.0	3.75	3.5			6403.3
05-Oct-16 16:45:00	16	44.4	1077	35	69	100	7.0	3.75	3.5			6404.3
05-Oct-16 17:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.											
05-Oct-16 17:00:00	16	44.6	1067	35	73	100	7.0	3.75	3.5			6405.4
05-Oct-16 17:15:00	16	44.6	1068	34	71	100	7.0	3.75	3.5			6406.2
05-Oct-16 17:17:00	Switched flow to 18/64" adjustable choke.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
05-Oct-16 17:30:00	18	67.0	969	34	77	100	7.0	3.75	3.5			6407.0
05-Oct-16 17:45:00	18	77.0	1049	33	78	100	7.0	3.75	3.5			6407.8
05-Oct-16 18:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.											
05-Oct-16 18:00:00	18	77.0	1001	33	83	100	7.0	3.75	3.5			6408.6
05-Oct-16 18:15:00	18	91.3	1005	33	80	100	7.0	3.75	3.5			6410.5
05-Oct-16 18:24:00	Increased adjustable choke to 20/64".											
05-Oct-16 18:30:00	18	109.7	892	33	92	100	7.0	3.75	3.5			6412.4
05-Oct-16 18:45:00	18	179.3	969	33	78	100	7.0	3.75	3.5			6414.4
05-Oct-16 19:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
05-Oct-16 19:00:00	18	149.8	987	33	95	100	7.0	3.50	3.0			6416.4
05-Oct-16 19:15:00	18	164.8	956	32	87	100	7.0	3.50	3.0			6417.7
05-Oct-16 19:30:00	18	158.9	955	32	92	100	7.0	3.50	3.0			6419.1
05-Oct-16 19:45:00	18	167.9	928	32	87	100	7.0	3.50	3.0			6420.4
05-Oct-16 20:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
05-Oct-16 20:00:00	18	170.8	921	32	90	100	7.0	3.50	3.0			6421.8
05-Oct-16 20:07:00	Switched flow to 20/64" fixed choke.											
05-Oct-16 20:15:00	20	191.7	878	31	89	100	7.0	3.50	3.0			6423.5
05-Oct-16 20:30:00	Took ALS water samples set #2 at Separator.											
05-Oct-16 20:30:00	20	203.2	891	32	92	100	7.0	3.50	3.0			6425.1
05-Oct-16 20:45:00	20	212.1	864	31	91	100	7.0	3.50	3.0			6426.8
05-Oct-16 21:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644. Water Density=1014.8 kg/m3 @ 21 degC.											
05-Oct-16 21:00:00	20	217.9	882	32	91	100	7.0	3.50	3.0			6428.4
05-Oct-16 21:15:00	20	223.9	858	31	90	100	7.0	3.50	3.0			6430.1
05-Oct-16 21:30:00	20	223.9	867	31	90	100	7.0	3.50	3.0			6431.8
05-Oct-16 21:45:00	20	230.1	850	31	88	100	7.0	3.50	3.0			6433.4
05-Oct-16 21:54:00	MP on 20/64" Fixed Choke.											
05-Oct-16 21:54:00	Lowered 1.75" orifice plate.											
05-Oct-16 22:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
05-Oct-16 22:00:00	20	232.7	847	31	93	100	7.0	3.50	3.0		1.289	6435.1
05-Oct-16 22:15:00	20	235.8	850	31	91	100	7.0	3.50	3.0		1.274	6436.6
05-Oct-16 22:30:00	20	238.7	842	31	92	100	7.0	3.50	3.0		1.267	6438.2
05-Oct-16 22:45:00	20	241.7	838	31	90	100	7.0	3.50	3.0		1.255	6439.8
05-Oct-16 23:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
05-Oct-16 23:00:00	20	241.6	833	31	93	100	7.0	3.50	3.0		1.246	6441.4
05-Oct-16 23:15:00	20	244.5	824	31	93	100	7.0	3.50	3.0		1.240	6442.9
05-Oct-16 23:30:00	20	247.2	828	31	88	100	7.0	3.50	3.0		1.224	6444.5
05-Oct-16 23:45:00	20	247.2	824	31	90	100	7.0	3.50	3.0		1.217	6446.1
06-Oct-16 00:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643. Water Density=1013.8 kg/m3 @ 24.2 degC.											
06-Oct-16 00:00:00	20	247.2	817	31	90	100	7.0	3.50	3.0		1.217	6447.6
06-Oct-16 00:15:00	20	250.6	817	31	88	100	7.0	3.50	3.0		1.197	6449.2
06-Oct-16 00:30:00	20	250.4	814	31	90	100	7.0	3.50	3.0		1.197	6450.7
06-Oct-16 00:45:00	20	253.3	804	31	89	100	7.0	3.50	3.0		1.193	6452.3
06-Oct-16 01:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643. .											
06-Oct-16 01:00:00	20	253.3	808	30	87	100	7.0	3.50	3.0		1.178	6453.9
06-Oct-16 01:15:00	20	253.1	801	30	90	100	7.0	3.50	3.0		1.172	6455.4
06-Oct-16 01:30:00	20	255.5	796	30	90	100	7.0	3.50	3.0		1.170	6457.0
06-Oct-16 01:45:00	20	256.3	802	30	86	100	7.0	3.50	3.0		1.162	6458.5
06-Oct-16 02:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.645. Water Density=1014.0 kg/m3 @ 23.4 degC.											
06-Oct-16 02:00:00	20	256.1	796	30	88	100	7.0	3.50	3.0		1.163	6460.1
06-Oct-16 02:15:00	20	259.0	793	30	88	100	7.0	3.50	3.0		1.155	6462.0
06-Oct-16 02:30:00	20	259.2	789	31	87	100	7.0	3.50	3.0		1.157	6464.0
06-Oct-16 02:45:00	20	259.2	793	31	88	100	7.0	3.50	3.0		1.147	6465.9
06-Oct-16 03:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.645.											
06-Oct-16 03:00:00	20	262.1	791	31	87	100	7.0	3.50	3.0		1.150	6467.9
06-Oct-16 03:15:00	20	259.4	794	31	89	100	7.0	3.50	3.0		1.145	6469.3
06-Oct-16 03:30:00	20	262.3	782	30	90	100	7.0	3.50	3.0		1.154	6470.6
06-Oct-16 03:45:00	20	259.4	782	30	91	100	7.0	3.50	3.0		1.139	6472.0
06-Oct-16 04:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644. Water Density=1013.9 kg/m3 @ 23.5 degC.											
06-Oct-16 04:00:00	20	262.1	779	30	90	100	7.0	3.50	3.0		1.140	6473.4
06-Oct-16 04:15:00	20	262.1	774	30	90	100	7.0	3.50	3.0		1.132	6475.6
06-Oct-16 04:29:00	Lifted up orifice plate.											
06-Oct-16 04:29:00	End of MP.											
06-Oct-16 04:30:00	Switched flow to 20/64" adjustable choke.											
06-Oct-16 04:30:00	20	262.1	771	29	91	100	7.0	3.50	3.0			6477.9
06-Oct-16 04:31:00	Increased adjustable choke to 22/64".											
06-Oct-16 04:45:00	22	329.1	647	30	92	100	7.0	3.50	3.0			6480.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
06-Oct-16 05:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 05:00:00	22	343.8	681	31	101	100	7.0	3.50	3.0			6482.5
06-Oct-16 05:15:00	22	355.6	682	31	102	100	7.0	3.50	3.0			6484.5
06-Oct-16 05:30:00	22	358.4	681	31	103	100	7.0	3.50	3.0			6486.4
06-Oct-16 05:45:00	22	361.5	679	31	102	100	7.0	3.50	3.0			6488.4
06-Oct-16 06:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 06:00:00	Electrical Conductivity=40.28mS, Water Density=1014 kg/m3 @24.5 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-132.1 mV2.											
06-Oct-16 06:00:00	22	367.4	667	31	102	100	7.0	3.50	3.0			6490.3
06-Oct-16 06:15:00	22	370.1	659	31	100	100	7.0	3.50	3.0			6492.3
06-Oct-16 06:30:00	22	373.3	659	31	100	100	7.0	3.50	3.0			6494.2
06-Oct-16 06:45:00	22	376.2	653	31	100	100	7.0	3.50	3.0			6496.2
06-Oct-16 07:00:00	22	381.7	652	32	99	100	7.0	3.50	3.0			6498.1
06-Oct-16 07:15:00	22	384.9	651	33	97	100	7.0	3.50	3.0			6500.1
06-Oct-16 07:30:00	22	387.8	644	33	98	100	7.0	3.50	3.0			6502.0
06-Oct-16 07:45:00	22	387.8	650	33	98	100	7.0	3.50	3.0			6504.0
06-Oct-16 08:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 08:00:00	22	387.6	640	34	95	100	7.0	3.50	3.0			6505.9
06-Oct-16 08:01:00	Electrical Conductivity=37.7mS, Water Density=1012.3 kg/m3 @29.1 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-134.9.1 mV2.											
06-Oct-16 08:15:00	22	390.4	642	34	96	100	7.0	3.50	3.0			6507.8
06-Oct-16 08:30:00	22	390.8	652	35	96	100	7.0	3.50	3.0			6509.7
06-Oct-16 08:45:00	22	388.2	643	35	95	100	7.0	3.50	3.0			6511.5
06-Oct-16 09:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 09:00:00	22	387.4	637	36	95	100	7.0	3.50	3.0			6513.4
06-Oct-16 09:03:00	Increased adjustable choke to 24/64".											
06-Oct-16 09:15:00	24	428.3	515	36	92	100	7.0	3.50	3.0			6515.9
06-Oct-16 09:30:00	24	458.5	549	37	98	100	7.0	3.50	3.0			6518.4
06-Oct-16 09:45:00	24	467.3	552	37	100	100	7.0	3.50	3.0			6521.0
06-Oct-16 10:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 10:00:00	24	473.0	547	37	95	100	7.0	4.00	3.0			6523.5
06-Oct-16 10:15:00	24	473.2	550	38	96	100	7.0	4.00	3.0			6525.8
06-Oct-16 10:29:00	Switched flow to 24/64" fixed choke.											
06-Oct-16 10:30:00	24	479.3	562	38	88	100	7.0	4.00	3.0			6528.0
06-Oct-16 10:45:00	24	452.6	625	38	92	100	7.0	4.00	3.0			6530.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
06-Oct-16 11:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 11:00:00	24	446.7	597	38	87	100	7.0	4.00	3.0			6532.5
06-Oct-16 11:15:00	24	435.3	596	39	87	100	7.0	4.00	3.0			6534.0
06-Oct-16 11:30:00	24	432.0	604	39	88	100	7.0	4.00	3.0			6535.6
06-Oct-16 11:45:00	24	432.0	592	39	87	100	7.0	4.00	3.0			6537.1
06-Oct-16 12:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 12:00:00	Electrical Conductivity=47.3mS, Water Density=1014.3 kg/m3 @28.6 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-167.6 mV2.											
06-Oct-16 12:00:00	24	429.0	593	39	89	100	7.0	4.00	3.0			6538.7
06-Oct-16 12:15:00	24	429.2	601	39	84	100	7.0	4.00	3.0			6540.6
06-Oct-16 12:30:00	24	426.1	600	39	88	100	7.0	4.00	3.0			6542.6
06-Oct-16 12:45:00	24	426.1	590	39	86	100	7.0	4.00	3.0			6544.5
06-Oct-16 13:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 13:00:00	24	423.0	602	40	84	100	7.0	4.00	3.0			6546.5
06-Oct-16 13:15:00	24	426.5	605	40	84	100	7.0	4.00	3.0			6548.4
06-Oct-16 13:30:00	24	423.1	596	40	84	100	7.0	4.00	3.0			6550.4
06-Oct-16 13:45:00	24	421.8	600	40	87	100	7.0	4.00	3.0			6552.3
06-Oct-16 14:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 14:00:00	24	423.1	590	40	84	100	7.0	4.00	3.0			6554.3
06-Oct-16 14:15:00	24	420.2	591	40	86	100	7.0	4.00	3.0			6556.2
06-Oct-16 14:30:00	24	420.4	597	40	84	100	7.0	4.00	3.0			6558.2
06-Oct-16 14:45:00	24	420.7	586	40	85	100	7.0	4.00	3.0			6560.1
06-Oct-16 15:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 15:00:00	24	416.9	591	40	86	100	7.0	4.00	3.0			6562.1
06-Oct-16 15:15:00	24	420.2	594	40	83	100	7.0	4.00	3.0			6564.1
06-Oct-16 15:30:00	24	420.2	585	40	85	100	7.0	4.00	3.0			6566.0
06-Oct-16 15:45:00	24	420.4	588	40	82	100	7.0	4.00	3.0			6568.0
06-Oct-16 16:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 16:00:00	Took Isotube gas sample #18 @ 84 psi, 39 degC.											
06-Oct-16 16:00:00	24	417.3	582	39	86	100	7.0	4.00	3.0			6570.0
06-Oct-16 16:01:00	Bled off casing pressure to 0 psi.											
06-Oct-16 16:15:00	24	11.8	586	39	83	100	7.0	4.00	3.0			6571.9
06-Oct-16 16:30:00	24	12.0	576	39	86	100	7.0	4.00	3.0			6573.7
06-Oct-16 16:45:00	24	12.0	587	39	84	100	7.0	4.00	3.0			6575.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
06-Oct-16 17:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 17:00:00	24	14.9	580	39	84	100	7.0	4.00	3.0			6577.4
06-Oct-16 17:15:00	24	15.1	585	38	83	100	7.0	4.00	3.0			6579.5
06-Oct-16 17:30:00	24	15.1	575	38	83	100	7.0	4.00	3.0			6581.5
06-Oct-16 17:45:00	24	15.1	576	37	85	100	7.0	4.00	3.0			6583.6
06-Oct-16 18:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 18:00:00	24	15.1	576	37	83	100	7.0	4.00	3.0			6585.6
06-Oct-16 18:15:00	24	18.2	580	37	83	100	7.0	4.00	3.0			6587.6
06-Oct-16 18:30:00	24	18.1	576	37	81	100	7.0	4.00	3.0			6589.5
06-Oct-16 18:45:00	24	15.6	555	36	84	100	7.0	4.00	3.0			6591.5
06-Oct-16 19:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 19:00:00	Electrical Conductivity=50.87mS, Water Density=1012 kg/m3 @32.8 degC, Dissolved Oxygen=2.4%S, Oxidation Reduction Potential=-220.9 mV2. Salinity=49000 ppm.											
06-Oct-16 19:00:00	24	121.9	767	36	92	100	7.0	4.00	3.0	49000		6593.4
06-Oct-16 19:15:00	24	27.3	631	38	101	100	7.0	4.00	3.0	49000		6595.3
06-Oct-16 19:30:00	24	24.2	516	36	81	100	7.0	4.00	3.0	49000		6597.2
06-Oct-16 19:45:00	24	18.3	597	36	86	100	7.0	4.00	3.0	49000		6599.1
06-Oct-16 20:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 20:00:00	24	18.1	556	36	83	100	7.0	4.00	3.0	49000		6601.1
06-Oct-16 20:15:00	24	18.3	561	36	84	100	7.0	4.00	3.0	49000		6602.9
06-Oct-16 20:30:00	24	19.8	564	36	84	100	7.0	4.00	3.0	49000		6604.8
06-Oct-16 20:45:00	24	21.2	555	36	84	100	7.0	4.00	3.0	49000		6606.6
06-Oct-16 21:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.646. Water Density=1016.4 kg/m3 @23.3 degC											
06-Oct-16 21:00:00	24	21.2	562	35	83	100	7.0	4.00	3.0	49000		6608.5
06-Oct-16 21:04:00	MP on 24/64" Fixed Choke.											
06-Oct-16 21:04:00	Lowered 1.75" orifice plate.											
06-Oct-16 21:15:00	24	21.1	563	35	83	100	7.0	4.00	3.0	49000	1.089	6610.4
06-Oct-16 21:30:00	24	21.0	564	35	84	100	7.0	4.00	3.0	49000	1.093	6612.4
06-Oct-16 21:45:00	24	21.2	561	35	86	100	7.0	4.00	3.0	49000	1.088	6614.3
06-Oct-16 22:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.646.											
06-Oct-16 22:00:00	24	21.1	560	35	83	100	7.0	4.00	3.0	49000	1.093	6616.3
06-Oct-16 22:15:00	24	21.0	551	35	87	100	7.0	4.00	3.0	49000	1.087	6618.1
06-Oct-16 22:30:00	24	21.1	561	35	81	100	7.0	4.00	3.0	49000	1.084	6620.0
06-Oct-16 22:45:00	24	21.0	556	35	83	100	7.0	4.00	3.0	49000	1.085	6621.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
06-Oct-16 23:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.											
06-Oct-16 23:00:00	Electrical Conductivity=43.09mS, Water Density=1015.7 kg/m3 @24.2 degC, Dissolved Oxygen=2.3%S, Oxidation Reduction Potential=-124.5 mV2. Salinity=49000 ppm.											
06-Oct-16 23:00:00	24	21.3	558	35	84	100	7.0	4.00	3.0	49000	1.075	6623.7
06-Oct-16 23:15:00	24	21.2	549	35	84	100	7.0	4.00	3.0	49000	1.084	6625.6
06-Oct-16 23:30:00	24	21.1	558	35	81	100	7.0	4.00	3.0	49000	1.075	6627.6
06-Oct-16 23:45:00	24	21.1	554	35	81	100	7.0	4.00	3.0	49000	1.081	6629.5
07-Oct-16 00:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.											
07-Oct-16 00:00:00	24	21.2	544	35	86	100	7.0	4.00	3.0	49000	1.075	6631.5
07-Oct-16 00:15:00	24	21.1	553	35	84	100	7.0	4.00	3.0	49000	1.066	6633.4
07-Oct-16 00:30:00	24	21.5	548	35	84	100	7.0	4.00	3.0	49000	1.078	6635.4
07-Oct-16 00:45:00	24	23.3	548	35	84	100	7.0	4.00	3.0	49000	1.072	6637.3
07-Oct-16 01:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.											
07-Oct-16 01:00:00	Electrical Conductivity=42.54mS, Water Density=1015.7 kg/m3 @23.7 degC, Dissolved Oxygen=1.9%S, Oxidation Reduction Potential=-145.7 mV2. Salinity=41000 ppm.											
07-Oct-16 01:00:00	24	24.0	540	35	84	100	7.0	4.00	3.0	41000	1.072	6639.3
07-Oct-16 01:15:00	24	24.2	552	35	82	100	7.0	4.00	3.0	41000	1.062	6641.1
07-Oct-16 01:30:00	24	24.2	541	34	84	100	7.0	4.00	3.0	41000	1.072	6643.0
07-Oct-16 01:45:00	24	24.3	543	35	84	100	7.0	4.00	3.0	41000	1.069	6644.8
07-Oct-16 02:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.											
07-Oct-16 02:00:00	24	24.5	540	34	84	100	7.0	4.00	3.0	41000	1.063	6646.7
07-Oct-16 02:15:00	24	24.2	548	35	83	100	7.0	4.00	3.0	41000	1.063	6648.6
07-Oct-16 02:30:00	24	24.2	546	35	83	100	7.0	4.00	3.0	41000	1.068	6650.6
07-Oct-16 02:45:00	24	24.2	546	34	82	100	7.0	4.00	3.0	41000	1.064	6652.5
07-Oct-16 03:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 03:00:00	Electrical Conductivity=42.34mS, Water Density=1015.7 kg/m3 @22.8 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-173.6 mV2. Salinity=49000 ppm.											
07-Oct-16 03:00:00	24	24.4	545	34	83	100	7.0	4.00	3.0	49000	1.064	6654.5
07-Oct-16 03:15:00	24	24.3	542	34	81	100	7.0	4.00	3.0	49000	1.067	6656.4
07-Oct-16 03:30:00	24	24.2	539	34	84	100	7.0	4.00	3.0	49000	1.060	6658.4
07-Oct-16 03:45:00	24	24.0	540	34	83	100	7.0	4.00	3.0	49000	1.063	6660.3
07-Oct-16 04:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 04:00:00	24	24.2	536	34	84	100	7.0	4.00	3.0	49000	1.065	6662.3
07-Oct-16 04:15:00	24	24.2	543	34	83	100	7.0	4.00	3.0	49000	1.057	6664.4
07-Oct-16 04:30:00	24	24.4	547	34	82	100	7.0	4.00	3.0	49000	1.063	6666.6
07-Oct-16 04:36:00	Lifted up orifice plate.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
07-Oct-16 04:36:00	End of MP											
07-Oct-16 04:37:00	Switched flow to 24/64" adjustable choke.											
07-Oct-16 04:38:00	Increased adjustable choke to 26/64".											
07-Oct-16 04:45:00	26	38.9	407	34	96	100	7.0	4.00	3.0	49000		6668.7
07-Oct-16 05:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 05:00:00	Electrical Conductivity=49.76mS, Water Density=1012.1 kg/m3 @31.6 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-218.1 mV2. Salinity=49000 ppm.											
07-Oct-16 05:00:00	26	80.3	431	35	97	100	7.0	4.00	3.0	49000		6670.9
07-Oct-16 05:15:00	26	94.3	425	35	96	100	7.0	4.00	3.0	49000		6672.9
07-Oct-16 05:30:00	26	101.0	419	35	96	100	7.0	4.00	3.0	49000		6675.0
07-Oct-16 05:45:00	26	106.0	420	35	95	100	7.0	4.00	3.0	49000		6677.0
07-Oct-16 06:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 06:00:00	26	108.9	417	35	96	100	7.0	4.00	3.0	49000		6679.1
07-Oct-16 06:15:00	26	111.7	413	35	96	100	7.0	4.00	3.0	49000		6681.4
07-Oct-16 06:30:00	26	114.8	413	35	94	100	7.0	4.00	3.0	49000		6683.7
07-Oct-16 06:45:00	26	114.7	408	36	95	100	7.0	4.00	3.0	49000		6686.1
07-Oct-16 07:00:00	26	117.5	413	36	93	100	7.0	4.00	3.0	49000		6688.4
07-Oct-16 07:15:00	26	117.4	403	37	94	100	7.0	4.00	3.0	49000		6690.6
07-Oct-16 07:30:00	26	117.5	403	37	92	100	7.0	4.00	3.0	49000		6692.7
07-Oct-16 07:45:00	26	117.2	403	37	94	100	7.0	4.00	3.0	49000		6694.8
07-Oct-16 08:00:00	26	120.3	413	37	93	100	7.0	4.00	3.0	49000		6697.0
07-Oct-16 08:05:00	Increased adjustable choke to 28/64"											
07-Oct-16 08:15:00	28	141.2	308	38	93	100	7.0	4.00	3.0	49000		6699.5
07-Oct-16 08:20:00	BSW=100% (Trace Solids), Gas SG=0.644, Water Density=1012.6 kg/m3 @ 29.5 degC.											
07-Oct-16 08:30:00	28	161.3	321	38	99	100	7.0	4.00	3.0	49000		6702.1
07-Oct-16 08:45:00	28	167.6	323	39	99	100	7.0	4.00	3.0	49000		6704.6
07-Oct-16 09:00:00	28	170.3	318	39	100	100	7.0	4.00	3.0	49000		6707.1
07-Oct-16 09:14:00	Switched flow to 28/64" fixed choke.											
07-Oct-16 09:15:00	28	173.5	341	39	87	100	7.0	4.00	3.0	49000		6708.6
07-Oct-16 09:30:00	BSW=100% (Trace Solids), pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 09:30:00	28	138.2	438	39	95	100	7.0	3.50	3.0	49000		6710.0
07-Oct-16 09:45:00	28	126.6	427	39	87	100	7.0	3.50	3.0	49000		6711.5
07-Oct-16 10:00:00	BSW=100% (Trace Solids), pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 10:00:00	28	114.3	422	39	86	100	7.0	3.50	3.0	49000		6712.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
07-Oct-16 10:15:00	28	108.5	416	39	89	100	7.0	3.50	3.0	49000		6714.9
07-Oct-16 10:30:00	28	108.4	417	40	87	100	7.0	3.50	3.0	49000		6716.8
07-Oct-16 10:45:00	28	105.6	423	40	88	100	7.0	3.50	3.0	49000		6718.8
07-Oct-16 11:00:00	Electrical Conductivity=53.2mS, Water Density=1014.9 kg/m3 @27.3 degC, Dissolved Oxygen=0.3%S, Oxidation Reduction Potential=-266.7 mV2. Salinity=32000 ppm.											
07-Oct-16 11:00:00	28	102.7	416	40	89	100	7.0	3.50	3.0	32000		6720.7
07-Oct-16 11:15:00	28	102.7	435	40	86	100	7.0	3.50	3.0	32000		6722.9
07-Oct-16 11:30:00	28	100.0	420	40	88	100	7.0	3.50	3.0	32000		6725.0
07-Oct-16 11:45:00	28	99.8	419	41	87	100	7.0	3.50	3.0	32000		6727.2
07-Oct-16 12:00:00	28	97.0	426	41	88	100	7.0	3.50	3.0	32000		6729.3
07-Oct-16 12:15:00	28	96.9	423	41	89	100	7.0	3.50	3.0	32000		6731.4
07-Oct-16 12:30:00	28	94.0	421	42	88	100	7.0	3.50	3.0	32000		6733.4
07-Oct-16 12:45:00	28	94.0	420	41	86	100	7.0	3.50	3.0	32000		6735.5
07-Oct-16 13:00:00	28	94.1	416	41	87	100	7.0	3.50	3.0	32000		6737.5
07-Oct-16 13:15:00	28	94.0	426	41	88	100	7.0	3.50	3.0	32000		6739.6
07-Oct-16 13:30:00	28	94.1	421	41	87	100	7.0	3.50	3.0	32000		6741.6
07-Oct-16 13:45:00	28	91.2	415	41	87	100	7.0	3.50	3.0	32000		6743.7
07-Oct-16 13:55:00	Set Separator porportional band to 25% to help stablize Separator during slugs pressure dropped moved porportional band back to 20%.											
07-Oct-16 14:00:00	BSW=100% (0.01% Solids), pH=7, CO2=3%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 14:00:00	Electrical Conductivity=54.6mS, Water Density=1014.5 kg/m3 @33.35 degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-267.4 mV2. Salinity=31000 ppm.											
07-Oct-16 14:00:00	28	91.2	409	41	81	100	7.0	3.00	3.0	31000		6745.7
07-Oct-16 14:15:00	28	91.1	418	41	82	100	7.0	3.00	3.0	31000		6747.7
07-Oct-16 14:30:00	28	91.3	417	41	83	100	7.0	3.00	3.0	31000		6749.8
07-Oct-16 14:45:00	28	91.2	410	41	84	100	7.0	3.00	3.0	31000		6751.8
07-Oct-16 15:00:00	BSW=100% (Trace Solids); Gas SG 0.642, CO2 2.8%, H2S 3ppm.											
07-Oct-16 15:00:00	Electrical Conductivity=51.78mS, Water Density=1012.6kg/m3 @33.7 degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-248mV2. Salinity=30000 ppm.											
07-Oct-16 15:00:00	28	90.9	423	41	81	100	7.0	2.80	3.0	30000		6753.9
07-Oct-16 15:15:00	28	88.7	414	40	83	100	7.0	2.80	3.0	30000		6756.1
07-Oct-16 15:30:00	28	91.0	422	41	83	100	7.0	2.80	3.0	30000		6758.3
07-Oct-16 15:45:00	28	88.4	417	41	83	100	7.0	2.80	3.0	30000		6760.6
07-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.											
07-Oct-16 16:00:00	Electrical Conductivity=51.8mS, Water Density=1012.1 kg/m3 @34.2 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-238mV2. Salinity=30000 ppm.											
07-Oct-16 16:00:00	Took Isotube gas sample #19 @ 60 psi, 43 degC.											
07-Oct-16 16:00:00	28	88.6	419	40	81	100	7.0	2.25	3.0	30000		6762.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
07-Oct-16 16:15:00	28	88.5	418	40	82	100	7.0	2.25	3.0	30000		6764.8
07-Oct-16 16:30:00	28	88.5	411	40	83	100	7.0	2.25	3.0	30000		6766.7
07-Oct-16 16:45:00	28	88.8	417	40	83	100	7.0	2.25	3.0	30000		6768.7
07-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.											
07-Oct-16 17:00:00	Electrical Conductivity=51.8mS, Water Density=1012.1 kg/m3 @34.2 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-238mV2. Salinity=30000 ppm.											
07-Oct-16 17:00:00	28	88.5	417	39	82	100	7.0	2.25	3.0	30000		6770.6
07-Oct-16 17:15:00	28	88.6	406	39	83	100	7.0	2.25	3.0	30000		6772.7
07-Oct-16 17:30:00	28	88.6	413	38	81	100	7.0	2.25	3.0	30000		6774.7
07-Oct-16 17:45:00	28	88.7	412	38	82	100	7.0	2.25	3.0	30000		6776.8
07-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.											
07-Oct-16 18:00:00	28	88.7	418	38	82	100	7.0	2.25	3.0	30000		6778.8
07-Oct-16 18:15:00	28	88.8	419	37	80	100	7.0	2.25	3.0	30000		6781.2
07-Oct-16 18:20:00	Took ALS water samples set #3 at Separator. Electrical Conductivity=53.76mS, Water Density=1011.1 kg/m3 @35.3 degC.											
07-Oct-16 18:30:00	28	88.7	418	37	81	100	7.0	2.25	3.0	30000		6783.7
07-Oct-16 18:45:00	28	132.0	382	37	82	100	7.0	2.25	3.0	30000		6786.1
07-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2.5%, H2S=3ppm.											
07-Oct-16 19:00:00	Electrical Conductivity=49.67mS, Water Density=1011.2 kg/m3 @35.1 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-208.5mV2. Salinity=30000 ppm.											
07-Oct-16 19:00:00	28	133.7	523	39	108	100	7.0	2.50	3.0	30000		6788.6
07-Oct-16 19:15:00	28	105.7	372	37	75	100	7.0	2.50	3.0	30000		6790.3
07-Oct-16 19:30:00	28	91.5	432	37	83	100	7.0	2.50	3.0	30000		6792.1
07-Oct-16 19:45:00	28	91.5	405	37	80	100	7.0	2.50	3.0	30000		6793.8
07-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2.5%, H2S=3ppm.											
07-Oct-16 20:00:00	28	88.8	408	36	85	100	7.0	2.50	3.0	30000		6795.6
07-Oct-16 20:15:00	28	88.8	398	36	85	100	7.0	2.50	3.0	30000		6797.5
07-Oct-16 20:30:00	28	88.9	410	36	86	100	7.0	2.50	3.0	30000		6799.5
07-Oct-16 20:45:00	28	88.6	404	36	85	100	7.0	2.50	3.0	30000		6801.4
07-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
07-Oct-16 21:00:00	Electrical Conductivity=46.56mS, Water Density=1013.9 kg/m3 @28 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-196.2mV2. Salinity=41000 ppm.											
07-Oct-16 21:00:00	28	91.5	406	36	85	100	7.0	2.00	3.0	41000		6803.4
07-Oct-16 21:15:00	28	89.3	405	35	87	100	7.0	2.00	3.0	41000		6805.4
07-Oct-16 21:30:00	28	91.5	408	36	85	100	7.0	2.00	3.0	41000		6807.5
07-Oct-16 21:45:00	28	91.6	399	35	87	100	7.0	2.00	3.0	41000		6809.5
07-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
07-Oct-16 22:00:00	28	88.8	401	35	87	100	7.0	2.00	3.0	41000		6811.6
07-Oct-16 22:15:00	28	88.6	400	35	86	100	7.0	2.00	3.0	41000		6814.2
07-Oct-16 22:30:00	28	88.5	412	36	83	100	7.0	2.00	3.0	41000		6816.9
07-Oct-16 22:45:00	28	65.7	344	36	78	100	7.0	2.00	3.0	41000		6819.6
07-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
07-Oct-16 23:00:00	Electrical Conductivity=52.55mS, Water Density=1011.2 kg/m3 @34.2 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-175.8mV2. Salinity=42000 ppm.											
07-Oct-16 23:00:00	28	158.6	545	38	112	100	7.0	2.00	3.0	42000		6822.3
07-Oct-16 23:15:00	28	111.7	362	36	86	100	7.0	2.00	3.0	42000		6824.1
07-Oct-16 23:30:00	28	97.4	407	35	95	100	7.0	2.00	3.0	42000		6826.0
07-Oct-16 23:45:00	28	91.5	400	36	87	100	7.0	2.00	3.0	42000		6827.8
08-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
08-Oct-16 00:00:00	28	88.8	402	36	85	100	7.0	2.00	3.0	42000		6829.7
08-Oct-16 00:15:00	28	86.0	398	36	87	100	7.0	2.00	3.0	42000		6831.7
08-Oct-16 00:30:00	28	86.0	402	35	87	100	7.0	2.00	3.0	42000		6833.8
08-Oct-16 00:45:00	28	86.0	399	35	84	100	7.0	2.00	3.0	42000		6835.8
08-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
08-Oct-16 01:00:00	Electrical Conductivity=45.85mS, Water Density=1013.6 kg/m3 @27.7 degC, Dissolved Oxygen=0.8%S, Oxidation Reduction Potential=-246.1mV2. Salinity=41000 ppm.											
08-Oct-16 01:00:00	28	86.0	397	35	88	100	7.0	2.00	3.0	41000		6837.9
08-Oct-16 01:15:00	28	87.8	397	35	87	100	7.0	2.00	3.0	41000		6839.8
08-Oct-16 01:30:00	28	85.9	399	35	87	100	7.0	2.00	3.0	41000		6841.8
08-Oct-16 01:45:00	28	86.0	389	34	88	100	7.0	2.00	3.0	41000		6843.7
08-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
08-Oct-16 02:00:00	28	89.0	401	34	86	100	7.0	2.00	3.0	41000		6845.7
08-Oct-16 02:15:00	28	88.8	401	34	84	100	7.0	2.00	3.0	41000		6847.5
08-Oct-16 02:30:00	28	88.7	398	34	87	100	7.0	2.00	3.0	41000		6849.4
08-Oct-16 02:45:00	28	85.8	395	34	87	100	7.0	2.00	3.0	41000		6851.2
08-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 03:00:00	Electrical Conductivity=44.22mS, Water Density=1014.9 kg/m3 @25.1 degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-250.6mV2. Salinity=41000 ppm.											
08-Oct-16 03:00:00	28	86.0	396	34	87	100	7.0	2.00	3.0	41000		6853.1
08-Oct-16 03:15:00	28	86.3	407	34	86	100	7.0	2.00	3.0	41000		6855.2
08-Oct-16 03:30:00	28	86.0	404	34	84	100	7.0	2.00	3.0	41000		6857.4
08-Oct-16 03:45:00	28	86.0	398	34	84	100	7.0	2.00	3.0	41000		6859.5
08-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
08-Oct-16 04:00:00	28	86.0	395	34	84	100	7.0	2.00	3.0	41000		6861.6
08-Oct-16 04:15:00	28	86.0	401	34	86	100	7.0	2.00	3.0	41000		6863.7
08-Oct-16 04:30:00	28	85.8	392	34	88	100	7.0	2.00	3.0	41000		6865.7
08-Oct-16 04:45:00	28	86.0	386	34	87	100	7.0	2.00	3.0	41000		6867.8
08-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 05:00:00	Electrical Conductivity=42.96mS, Water Density=1015 kg/m3 @23.9 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-226.9mV2. Salinity=40000 ppm.											
08-Oct-16 05:00:00	28	86.0	388	34	86	100	7.0	2.00	3.0	40000		6869.8
08-Oct-16 05:01:00	Switched flow to 28/64" adjustable choke.											
08-Oct-16 05:02:00	Increased adjustable choke to 29/64".											
08-Oct-16 05:15:00	29	132.6	275	35	90	100	7.0	2.00	3.0	40000		6872.6
08-Oct-16 05:30:00	29	150.2	273	35	96	100	7.0	2.00	3.0	40000		6875.3
08-Oct-16 05:45:00	29	156.1	281	35	99	100	7.0	2.00	3.0	40000		6878.0
08-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 06:00:00	29	162.1	268	35	97	100	7.0	2.00	3.0	40000		6880.8
08-Oct-16 06:15:00	29	164.8	280	35	96	100	7.0	2.00	3.0	40000		6883.5
08-Oct-16 06:30:00	Bled off casing pressure to 0 psi.											
08-Oct-16 06:30:00	29	164.9	273	35	97	100	7.0	2.00	3.0	40000		6886.3
08-Oct-16 06:45:00	29	18.3	275	35	99	100	7.0	2.00	3.0	40000		6889.1
08-Oct-16 07:00:00	29	18.4	277	36	96	100	7.0	2.00	3.0	40000		6891.9
08-Oct-16 07:15:00	29	18.1	276	37	96	100	7.0	2.00	3.0	40000		6893.4
08-Oct-16 07:30:00	29	18.2	278	38	96	100	7.0	2.00	3.0	40000		6894.8
08-Oct-16 07:45:00	29	18.1	282	38	96	100	7.0	2.00	3.0	40000		6896.3
08-Oct-16 08:00:00	Electrical Conductivity=53.35mS, Water Density=1013.5 kg/m3 @30.7 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-254.0mV2. Salinity=33000 ppm.											
08-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 08:00:00	29	15.0	269	39	96	100	7.0	2.00	3.0	33000		6897.8
08-Oct-16 08:15:00	29	15.1	272	39	95	100	7.0	2.00	3.0	33000		6899.9
08-Oct-16 08:30:00	29	15.1	266	39	96	100	7.0	2.00	3.0	33000		6902.1
08-Oct-16 08:45:00	29	15.1	266	39	96	100	7.0	2.00	3.0	33000		6904.3
08-Oct-16 09:00:00	29	14.9	269	39	96	100	7.0	2.00	3.0	33000		6906.4
08-Oct-16 09:15:00	29	17.0	265	39	96	100	7.0	2.00	3.0	33000		6908.4
08-Oct-16 09:30:00	29	15.0	268	40	93	100	7.0	2.00	3.0	33000		6910.3
08-Oct-16 09:45:00	29	17.9	274	40	96	100	7.0	2.00	3.0	33000		6912.3
08-Oct-16 10:00:00	Electrical Conductivity=52.49mS, Water Density=1012.2kg/m3 @33.2 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-266mV2. Salinity=30000 ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
08-Oct-16 10:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 10:00:00	29	15.1	267	40	96	100	7.0	2.00	3.0	30000		6914.2
08-Oct-16 10:15:00	29	15.2	272	40	95	100	7.0	2.00	3.0	30000		6916.3
08-Oct-16 10:30:00	29	17.7	260	40	94	100	7.0	2.00	3.0	30000		6918.4
08-Oct-16 10:45:00	29	15.0	269	41	96	100	7.0	2.00	3.0	30000		6920.4
08-Oct-16 11:00:00	29	18.4	264	41	92	100	7.0	2.00	3.0	30000		6922.5
08-Oct-16 11:15:00	29	14.9	263	41	93	100	7.0	2.00	3.0	30000		6924.8
08-Oct-16 11:30:00	29	15.2	267	41	96	100	7.0	2.00	3.0	30000		6927.1
08-Oct-16 11:45:00	29	15.5	260	41	97	100	7.0	2.00	3.0	30000		6929.4
08-Oct-16 12:00:00	29	15.2	263	41	95	100	7.0	2.00	3.0	30000		6931.7
08-Oct-16 12:15:00	29	15.2	258	41	95	100	7.0	2.00	3.0	30000		6934.1
08-Oct-16 12:30:00	29	14.7	261	41	93	100	7.0	2.00	3.0	30000		6936.6
08-Oct-16 12:45:00	29	15.3	263	41	95	100	7.0	2.00	3.0	30000		6939.0
08-Oct-16 13:00:00	29	15.1	262	41	97	100	7.0	2.00	3.0	30000		6941.4
08-Oct-16 13:15:00	29	15.2	261	42	95	100	7.0	2.00	3.0	30000		6943.8
08-Oct-16 13:30:00	29	15.5	270	41	93	100	7.0	2.00	3.0	30000		6946.2
08-Oct-16 13:45:00	29	15.1	259	42	95	100	7.0	2.00	3.0	30000		6948.7
08-Oct-16 14:00:00	29	13.9	251	41	95	100	7.0	2.00	3.0	30000		6951.1
08-Oct-16 14:04:00	Switched flow to 28/64" fixed choke.											
08-Oct-16 14:05:00	BSW=100% (0.05% solids), pH=7, Gas SG=0.644, CO2=2.5 %, H2S=3ppm.											
08-Oct-16 14:15:00	28	6.1	383	42	86	100	7.0	2.50	3.0	30000		6952.9
08-Oct-16 14:30:00	28	12.0	462	41	96	100	7.0	2.50	3.0	30000		6954.8
08-Oct-16 14:45:00	28	0.5	343	41	87	100	7.0	2.50	3.0	30000		6956.6
08-Oct-16 14:48:00	Switched flow to 29/64" adjustable choke.											
08-Oct-16 15:00:00	Electrical Conductivity=51.0mS, Water Density=1013.5kg/m3 @32.7 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-278mV2. Salinity=30000 ppm.											
08-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 15:00:00	28	3.2	255	42	86	100	7.0	3.00	3.0	30000		6958.4
08-Oct-16 15:15:00	28	9.4	255	41	90	100	7.0	3.00	3.0	30000		6960.9
08-Oct-16 15:30:00	28	9.1	261	41	90	100	7.0	3.00	3.0	30000		6963.3
08-Oct-16 15:45:00	28	9.1	251	41	90	100	7.0	3.00	3.0	30000		6965.7
08-Oct-16 16:00:00	Electrical Conductivity=56.42mS, Water Density=1013.1kg/m3 @32.6 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-259mV2. Salinity=30000 ppm.											
08-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 16:00:00	Took Isotube gas sample #20 @ 75 psi, 45 degC.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
08-Oct-16 16:00:00	28	11.9	263	41	92	100	7.0	3.00	3.0	30000		6968.1
08-Oct-16 16:15:00	28	12.4	252	40	89	100	7.0	3.00	3.0	30000		6970.3
08-Oct-16 16:30:00	28	12.2	255	41	92	100	7.0	3.00	3.0	30000		6972.5
08-Oct-16 16:45:00	28	12.4	250	40	89	100	7.0	3.00	3.0	30000		6974.7
08-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 17:00:00	Electrical Conductivity=56.00mS, Water Density=1012.7kg/m3 @33.5 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-282mV2. Salinity=30000 ppm.											
08-Oct-16 17:00:00	28	12.4	255	40	89	100	7.0	3.00	3.0	30000		6976.8
08-Oct-16 17:15:00	28	12.4	262	39	91	100	7.0	3.00	3.0	30000		6979.4
08-Oct-16 17:30:00	28	12.4	247	39	90	100	7.0	3.00	3.0	30000		6982.0
08-Oct-16 17:45:00	28	12.4	250	39	90	100	7.0	3.00	3.0	30000		6984.5
08-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 18:00:00	28	12.4	256	38	90	100	7.0	3.00	3.0	30000		6987.1
08-Oct-16 18:15:00	28	12.4	253	38	90	100	7.0	3.00	3.0	30000		6989.4
08-Oct-16 18:30:00	28	12.6	249	38	90	100	7.0	3.00	3.0	30000		6991.8
08-Oct-16 18:45:00	28	15.4	256	38	90	100	7.0	3.00	3.0	30000		6994.1
08-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 19:00:00	Electrical Conductivity=54.96mS, Water Density=1011.2kg/m3 @35 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-274.9mV2. Salinity=33000 ppm.											
08-Oct-16 19:00:00	28	15.5	255	38	89	100	7.0	3.00	3.0	33000		6996.5
08-Oct-16 19:15:00	28	15.2	253	38	90	100	7.0	3.00	3.0	33000		6998.3
08-Oct-16 19:30:00	28	15.7	246	37	90	100	7.0	3.00	3.0	33000		7000.2
08-Oct-16 19:45:00	28	15.6	245	37	90	100	7.0	3.00	3.0	33000		7002.0
08-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 20:00:00	28	15.1	247	37	89	100	7.0	3.00	3.0	33000		7003.9
08-Oct-16 20:15:00	28	62.5	321	37	106	100	7.0	3.00	3.0	33000		7006.1
08-Oct-16 20:30:00	28	27.3	251	38	83	100	7.0	3.00	3.0	33000		7008.4
08-Oct-16 20:45:00	28	18.4	253	37	86	100	7.0	3.00	3.0	33000		7010.6
08-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 21:00:00	Electrical Conductivity=54.55mS, Water Density=1010.6kg/m3 @34.7 degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-291.8mV2. Salinity=33000 ppm.											
08-Oct-16 21:00:00	28	15.5	251	37	86	100	7.0	3.00	3.0	33000		7012.8
08-Oct-16 21:15:00	28	15.3	249	37	86	100	7.0	3.00	3.0	33000		7015.0
08-Oct-16 21:30:00	28	15.5	241	37	84	100	7.0	3.00	3.0	33000		7017.1
08-Oct-16 21:45:00	28	15.5	251	36	86	100	7.0	3.00	3.0	33000		7019.3
08-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
08-Oct-16 22:00:00	28	15.5	250	36	84	100	7.0	3.00	3.0	33000		7021.4
08-Oct-16 22:15:00	28	15.5	247	36	85	100	7.0	3.00	3.0	33000		7023.4
08-Oct-16 22:30:00	28	15.3	248	36	85	100	7.0	3.00	3.0	33000		7025.3
08-Oct-16 22:45:00	28	18.3	240	37	86	100	7.0	3.00	3.0	33000		7027.3
08-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 23:00:00	Electrical Conductivity=51.62mS, Water Density=1012.1kg/m3 @31.6 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-245.5mV2. Salinity=33000 ppm.											
08-Oct-16 23:00:00	28	15.7	250	37	87	100	7.0	3.00	3.0	33000		7029.2
08-Oct-16 23:15:00	28	17.1	250	36	86	100	7.0	3.00	3.0	33000		7031.6
08-Oct-16 23:30:00	28	15.3	245	36	86	100	7.0	3.00	3.0	33000		7033.9
08-Oct-16 23:45:00	28	15.7	251	36	84	100	7.0	3.00	3.0	33000		7036.2
09-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 00:00:00	28	15.5	250	36	84	100	7.0	3.00	3.0	33000		7038.5
09-Oct-16 00:15:00	28	15.5	245	36	86	100	7.0	3.00	3.0	33000		7040.8
09-Oct-16 00:30:00	28	15.5	246	36	86	100	7.0	3.00	3.0	33000		7043.1
09-Oct-16 00:45:00	28	18.1	241	35	86	100	7.0	3.00	3.0	33000		7045.4
09-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 01:00:00	Electrical Conductivity=51.96mS, Water Density=1011.2kg/m3 @32.3 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-269.2mV2. Salinity=33000 ppm.											
09-Oct-16 01:00:00	28	18.5	240	35	86	100	7.0	3.00	3.0	33000		7047.7
09-Oct-16 01:15:00	28	18.3	248	35	86	100	7.0	3.00	3.0	33000		7049.9
09-Oct-16 01:30:00	28	18.5	242	35	92	100	7.0	3.00	3.0	33000		7052.1
09-Oct-16 01:45:00	28	18.5	240	36	93	100	7.0	3.00	3.0	33000		7054.3
09-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 02:00:00	28	18.3	248	36	93	100	7.0	3.00	3.0	33000		7056.5
09-Oct-16 02:15:00	28	18.5	243	35	92	100	7.0	3.00	3.0	33000		7058.8
09-Oct-16 02:30:00	28	18.3	243	35	88	100	7.0	3.00	3.0	33000		7061.1
09-Oct-16 02:45:00	28	18.5	241	35	92	100	7.0	3.00	3.0	33000		7063.4
09-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3%, H2S=3ppm.											
09-Oct-16 03:00:00	Electrical Conductivity=49.99mS, Water Density=1012.8kg/m3 @30 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-263.2mV2. Salinity=40000 ppm.											
09-Oct-16 03:00:00	28	18.3	249	35	92	100	7.0	3.00	3.0	40000		7065.7
09-Oct-16 03:15:00	28	18.5	240	35	91	100	7.0	3.00	3.0	40000		7067.5
09-Oct-16 03:30:00	28	18.5	241	35	90	100	7.0	3.00	3.0	40000		7069.4
09-Oct-16 03:45:00	28	18.5	248	35	95	100	7.0	3.00	3.0	40000		7071.2
09-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3%, H2S=3ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
09-Oct-16 04:00:00	28	15.5	230	35	89	100	7.0	3.00	3.0	40000		7073.0
09-Oct-16 04:15:00	28	18.5	239	35	100	100	7.0	3.00	3.0	40000		7075.6
09-Oct-16 04:30:00	28	18.5	248	35	96	100	7.0	3.00	3.0	40000		7078.1
09-Oct-16 04:45:00	28	18.5	247	34	96	100	7.0	3.00	3.0	40000		7080.6
09-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 05:00:00	Electrical Conductivity=50.17mS, Water Density=1012.6kg/m3 @30.2 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-260.2mV2. Salinity=33000 ppm.											
09-Oct-16 05:00:00	28	18.5	243	34	94	100	7.0	3.00	3.0	33000		7083.2
09-Oct-16 05:15:00	28	16.7	235	34	96	100	7.0	3.00	3.0	33000		7085.0
09-Oct-16 05:30:00	28	15.3	241	34	96	100	7.0	3.00	3.0	33000		7086.8
09-Oct-16 05:45:00	28	15.3	237	34	94	100	7.0	3.00	3.0	33000		7088.7
09-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 06:00:00	28	15.5	244	35	96	100	7.0	3.00	3.0	33000		7090.5
09-Oct-16 06:15:00	28	15.3	240	35	97	100	7.0	3.00	3.0	33000		7092.7
09-Oct-16 06:30:00	28	15.3	248	35	96	100	7.0	3.00	3.0	33000		7094.9
09-Oct-16 06:45:00	28	15.3	240	35	96	100	7.0	3.00	3.0	33000		7097.1
09-Oct-16 07:00:00	Electrical Conductivity=50.77mS, Water Density=1012.8kg/m3 @30.6 degC, Dissolved Oxygen=1.1%S, Oxidation Reduction Potential=-263.2mV2. Salinity=30000 ppm.											
09-Oct-16 07:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 07:00:00	28	15.3	247	36	93	100	7.0	3.00	3.0	30000		7099.3
09-Oct-16 07:01:00	Pumped frac tank to pond.											
09-Oct-16 07:15:00	28	15.1	244	36	95	100	7.0	3.00	3.0	30000		7101.5
09-Oct-16 07:30:00	28	15.1	242	37	96	100	7.0	3.00	3.0	30000		7103.7
09-Oct-16 07:45:00	28	12.4	241	37	96	100	7.0	3.00	3.0	30000		7105.9
09-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 08:00:00	28	12.2	241	37	96	100	7.0	3.00	3.0	30000		7108.1
09-Oct-16 08:15:00	28	12.4	246	38	95	100	7.0	3.00	3.0	30000		7110.2
09-Oct-16 08:30:00	28	12.0	246	38	95	100	7.0	3.00	3.0	30000		7112.2
09-Oct-16 08:45:00	28	12.2	242	38	96	100	7.0	3.00	3.0	30000		7114.3
09-Oct-16 09:00:00	Electrical Conductivity=51.2mS, Water Density=1012.7kg/m3 @30.8 degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-267mV2. Salinity=30000 ppm											
09-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 09:00:00	28	10.9	245	39	97	100	7.0	3.00	3.0	30000		7116.3
09-Oct-16 09:15:00	28	9.4	250	39	96	100	7.0	3.00	3.0	30000		7118.4
09-Oct-16 09:30:00	28	9.3	239	39	96	100	7.0	3.00	3.0	30000		7120.4
09-Oct-16 09:45:00	28	9.3	243	39	95	100	7.0	3.00	3.0	30000		7122.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
09-Oct-16 10:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=3ppm.											
09-Oct-16 10:00:00	28	8.9	240	39	95	100	7.0	2.50	3.0	30000		7124.5
09-Oct-16 10:15:00	28	9.4	242	40	95	100	7.0	2.50	3.0	30000		7126.5
09-Oct-16 10:30:00	28	9.1	248	40	96	100	7.0	2.50	3.0	30000		7128.4
09-Oct-16 10:45:00	28	9.1	242	40	96	100	7.0	2.50	3.0	30000		7130.4
09-Oct-16 11:00:00	Electrical Conductivity=48.9mS, Water Density=1012.6kg/m3 @32.7 degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-256mV2. Salinity=30000 ppm											
09-Oct-16 11:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 11:00:00	28	9.3	248	41	96	100	7.0	3.00	3.0	30000		7132.3
09-Oct-16 11:15:00	28	9.3	243	41	96	100	7.0	3.00	3.0	30000		7134.3
09-Oct-16 11:30:00	28	9.3	242	42	96	100	7.0	3.00	3.0	30000		7136.2
09-Oct-16 11:45:00	28	9.1	242	41	95	100	7.0	3.00	3.0	30000		7138.2
09-Oct-16 12:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=4.5ppm.											
09-Oct-16 12:00:00	28	9.3	243	41	98	100	7.0	2.50	4.5	30000		7140.1
09-Oct-16 12:15:00	28	7.2	249	41	98	100	7.0	2.50	4.5	30000		7142.1
09-Oct-16 12:30:00	28	6.3	239	41	96	100	7.0	2.50	4.5	30000		7144.0
09-Oct-16 12:45:00	28	9.0	247	42	95	100	7.0	2.50	4.5	30000		7146.0
09-Oct-16 13:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.											
09-Oct-16 13:00:00	28	5.9	245	42	96	100	7.0	2.50	5.0	30000		7147.9
09-Oct-16 13:15:00	28	6.5	248	41	98	100	7.0	2.50	5.0	30000		7149.9
09-Oct-16 13:30:00	28	6.0	244	42	98	100	7.0	2.50	5.0	30000		7151.9
09-Oct-16 13:45:00	28	9.3	253	42	93	100	7.0	2.50	5.0	30000		7153.9
09-Oct-16 14:00:00	Electrical Conductivity=55.8mS, Water Density=1012.7kg/m3 @33.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-268mV2. Salinity=30000 ppm											
09-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.											
09-Oct-16 14:00:00	28	7.0	245	42	96	100	7.0	2.50	5.0	30000		7155.9
09-Oct-16 14:15:00	28	6.5	248	42	98	100	7.0	2.50	5.0	30000		7157.8
09-Oct-16 14:30:00	28	6.1	240	42	96	100	7.0	2.50	5.0	30000		7159.7
09-Oct-16 14:45:00	28	6.3	248	42	96	100	7.0	2.50	5.0	30000		7161.6
09-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.											
09-Oct-16 15:00:00	28	6.3	242	42	96	100	7.0	2.50	5.0	30000		7163.5
09-Oct-16 15:15:00	28	6.3	245	41	95	100	7.0	2.50	5.0	30000		7165.7
09-Oct-16 15:30:00	28	6.5	240	42	96	100	7.0	2.50	5.0	30000		7167.8
09-Oct-16 15:45:00	28	6.5	248	41	96	100	7.0	2.50	5.0	30000		7170.0
09-Oct-16 16:00:00	Electrical Conductivity=55.5mS, Water Density=1012.6kg/m3 @33.8degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-280mV2. Salinity=30000 ppm											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
09-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
09-Oct-16 16:00:00	Took Isotube gas sample #21 @ 75 psi, 46 degC.											
09-Oct-16 16:00:00	28	6.3	244	41	98	100	7.0	3.00	4.0	30000		7172.2
09-Oct-16 16:15:00	28	6.3	238	41	95	100	7.0	3.00	4.0	30000		7174.2
09-Oct-16 16:30:00	28	6.7	248	41	96	100	7.0	3.00	4.0	30000		7176.1
09-Oct-16 16:45:00	28	6.5	247	41	96	100	7.0	3.00	4.0	30000		7178.1
09-Oct-16 17:00:00	Pumped frac tank to pond.											
09-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
09-Oct-16 17:00:00	28	6.5	244	40	95	100	7.0	3.00	4.0	30000		7180.0
09-Oct-16 17:15:00	28	6.5	245	40	96	100	7.0	3.00	4.0	30000		7181.9
09-Oct-16 17:30:00	28	6.5	238	39	96	100	7.0	3.00	4.0	30000		7183.9
09-Oct-16 17:45:00	28	6.9	243	39	96	100	7.0	3.00	4.0	30000		7185.8
09-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
09-Oct-16 18:00:00	28	6.7	242	39	96	100	7.0	3.00	4.0	30000		7187.7
09-Oct-16 18:15:00	28	6.5	250	38	97	100	7.0	3.00	4.0	30000		7189.5
09-Oct-16 18:30:00	28	9.3	245	38	98	100	7.0	3.00	4.0	30000		7191.3
09-Oct-16 18:45:00	28	9.6	239	38	98	100	7.0	3.00	4.0	30000		7193.1
09-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.											
09-Oct-16 19:00:00	Electrical Conductivity=55.08mS, Water Density=1011.8kg/m3 @33.7degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-287.4mV2. Salinity=32000 ppm											
09-Oct-16 19:00:00	28	9.6	245	37	99	100	7.0	3.00	4.0	32000		7194.9
09-Oct-16 19:15:00	28	9.3	238	37	96	100	7.0	3.00	4.0	32000		7197.0
09-Oct-16 19:30:00	28	9.7	241	37	95	100	7.0	3.00	4.0	32000		7199.2
09-Oct-16 19:45:00	28	9.8	242	36	96	100	7.0	3.00	4.0	32000		7201.3
09-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.											
09-Oct-16 20:00:00	28	12.2	231	36	94	100	7.0	3.00	4.0	32000		7203.5
09-Oct-16 20:15:00	28	12.6	235	36	96	100	7.0	3.00	4.0	32000		7205.5
09-Oct-16 20:30:00	28	12.6	233	36	96	100	7.0	3.00	4.0	32000		7207.6
09-Oct-16 20:45:00	28	12.5	243	36	96	100	7.0	3.00	4.0	32000		7209.6
09-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3.5%, H2S=4ppm.											
09-Oct-16 21:00:00	Electrical Conductivity=52.09mS, Water Density=1012.6kg/m3 @31degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-283.3mV2. Salinity=33000 ppm											
09-Oct-16 21:00:00	28	12.5	240	36	96	100	7.0	3.50	4.0	33000		7211.6
09-Oct-16 21:15:00	28	12.6	243	36	98	100	7.0	3.50	4.0	33000		7213.3
09-Oct-16 21:30:00	28	12.6	240	36	95	100	7.0	3.50	4.0	33000		7215.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
09-Oct-16 21:45:00	28	12.6	239	36	97	100	7.0	3.50	4.0	33000		7216.6
09-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
09-Oct-16 22:00:00	28	12.7	233	35	97	100	7.0	3.50	4.0	33000		7218.3
09-Oct-16 22:15:00	28	12.4	238	35	96	100	7.0	3.50	4.0	33000		7220.5
09-Oct-16 22:30:00	28	12.6	242	35	99	100	7.0	3.50	4.0	33000		7222.8
09-Oct-16 22:45:00	28	12.4	239	35	95	100	7.0	3.50	4.0	33000		7225.0
09-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
09-Oct-16 23:00:00	Electrical Conductivity=49.31mS, Water Density=1013.5kg/m3 @28.6degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-272.6mV2. Salinity=33000 ppm											
09-Oct-16 23:00:00	28	12.6	241	35	96	100	7.0	3.50	4.0	33000		7227.3
09-Oct-16 23:15:00	28	12.4	238	36	96	100	7.0	3.50	4.0	33000		7229.0
09-Oct-16 23:30:00	28	12.4	230	36	96	100	7.0	3.50	4.0	33000		7230.8
09-Oct-16 23:45:00	28	12.5	236	36	94	100	7.0	3.50	4.0	33000		7232.6
10-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
10-Oct-16 00:00:00	28	12.6	235	35	96	100	7.0	3.50	4.0	33000		7234.4
10-Oct-16 00:15:00	28	12.5	234	35	96	100	7.0	3.50	4.0	33000		7235.5
10-Oct-16 00:30:00	28	12.8	233	35	96	100	7.0	3.50	4.0	33000		7236.6
10-Oct-16 00:45:00	28	12.7	242	35	97	100	7.0	3.50	4.0	33000		7237.7
10-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
10-Oct-16 01:00:00	Electrical Conductivity=50.97mS, Water Density=1013kg/m3 @29.5degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-289.3mV2. Salinity=33000 ppm											
10-Oct-16 01:00:00	28	12.6	237	35	96	100	7.0	3.50	4.0	33000		7238.8
10-Oct-16 01:15:00	28	12.6	240	35	96	100	7.0	3.50	4.0	33000		7239.9
10-Oct-16 01:30:00	28	12.6	234	35	95	100	7.0	3.50	4.0	33000		7241.0
10-Oct-16 01:45:00	28	12.6	236	35	97	100	7.0	3.50	4.0	33000		7242.1
10-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
10-Oct-16 02:00:00	28	12.6	233	35	98	100	7.0	3.50	4.0	33000		7243.2
10-Oct-16 02:15:00	28	12.6	237	35	97	100	7.0	3.50	4.0	33000		7245.1
10-Oct-16 02:30:00	28	12.6	242	35	96	100	7.0	3.50	4.0	33000		7247.1
10-Oct-16 02:45:00	28	12.8	239	35	96	100	7.0	3.50	4.0	33000		7249.0
10-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.											
10-Oct-16 03:00:00	Electrical Conductivity=50.06mS, Water Density=1013.1kg/m3 @29.2degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-288.4mV2. Salinity=36000 ppm											
10-Oct-16 03:00:00	28	12.7	241	35	96	100	7.0	3.50	4.0	36000		7251.0
10-Oct-16 03:15:00	28	12.6	232	35	97	100	7.0	3.50	4.0	36000		7253.1
10-Oct-16 03:30:00	28	12.6	232	35	96	100	7.0	3.50	4.0	36000		7255.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
10-Oct-16 03:45:00	28	12.6	235	35	97	100	7.0	3.50	4.0	36000		7257.2
10-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.											
10-Oct-16 04:00:00	28	12.8	242	34	94	100	7.0	3.50	4.0	36000		7259.3
10-Oct-16 04:15:00	28	13.5	247	34	95	100	7.0	3.50	4.0	36000		7261.3
10-Oct-16 04:30:00	28	12.6	234	34	94	100	7.0	3.50	4.0	36000		7263.4
10-Oct-16 04:45:00	28	12.6	234	35	94	100	7.0	3.50	4.0	36000		7265.5
10-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.											
10-Oct-16 05:00:00	Electrical Conductivity=50.55mS, Water Density=1012.8kg/m3 @30degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-307.3mV2. Salinity=33000 ppm											
10-Oct-16 05:00:00	28	12.5	231	35	96	100	7.0	3.50	4.0	33000		7267.6
10-Oct-16 05:15:00	28	12.5	230	35	96	100	7.0	3.50	4.0	33000		7269.4
10-Oct-16 05:30:00	28	12.6	236	34	96	100	7.0	3.50	4.0	33000		7271.2
10-Oct-16 05:45:00	28	12.4	236	34	96	100	7.0	3.50	4.0	33000		7273.1
10-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.											
10-Oct-16 06:00:00	28	12.7	233	34	96	100	7.0	3.50	4.0	33000		7274.9
10-Oct-16 06:15:00	28	12.6	233	35	96	100	7.0	3.50	4.0	33000		7277.1
10-Oct-16 06:30:00	28	12.5	235	35	97	100	7.0	3.50	4.0	33000		7279.2
10-Oct-16 06:45:00	28	12.4	231	35	96	100	7.0	3.50	4.0	33000		7281.4
10-Oct-16 07:00:00	Electrical Conductivity=49.6mS, Water Density=1013.4kg/m3 @29.7degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-293.8mV2. Salinity=32000 ppm											
10-Oct-16 07:00:00	Pumped Frac Tank into Pond											
10-Oct-16 07:00:00	28	12.6	229	36	94	100	7.0	3.00	4.0	32000		7283.6
10-Oct-16 07:01:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3 %, H2S=4ppm.											
10-Oct-16 07:15:00	28	12.3	240	36	95	100	7.0	3.00	4.0	32000		7285.7
10-Oct-16 07:30:00	28	9.3	235	36	96	100	7.0	3.00	4.0	32000		7288.1
10-Oct-16 07:45:00	28	9.4	234	36	95	100	7.0	3.00	4.0	32000		7290.8
10-Oct-16 08:00:00	BSW=100% (trace solids) , pH=7, Gas SG=0.644, CO2= 3 %, H2S=4ppm.											
10-Oct-16 08:00:00	28	9.1	239	36	96	100	7.0	3.00	4.0	32000		7293.5
10-Oct-16 08:15:00	28	9.3	239	37	96	100	7.0	3.00	4.0	32000		7295.7
10-Oct-16 08:30:00	28	9.3	235	37	96	100	7.0	3.00	4.0	32000		7297.8
10-Oct-16 08:45:00	28	7.8	242	37	96	100	7.0	3.00	4.0	32000		7300.0
10-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=4ppm.											
10-Oct-16 09:00:00	28	9.1	242	38	96	100	7.0	2.50	4.0	32000		7302.2
10-Oct-16 09:15:00	28	6.3	235	38	96	100	7.0	2.50	4.0	32000		7304.3
10-Oct-16 09:30:00	28	6.5	236	39	96	100	7.0	2.50	4.0	32000		7306.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
10-Oct-16 09:45:00	28	6.3	248	39	96	100	7.0	2.50	4.0	32000		7308.6
10-Oct-16 10:00:00	Electrical Conductivity=54.6mS, Water Density=1012.8kg/m3 @29.7degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-303.0mV2. Salinity=32000 ppm											
10-Oct-16 10:00:00	28	6.3	243	40	96	100	7.0	3.00	3.0	32000		7310.8
10-Oct-16 10:01:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3 %, H2S=3ppm.											
10-Oct-16 10:15:00	28	6.5	239	40	96	100	7.0	3.00	3.0	32000		7312.7
10-Oct-16 10:23:00	WHP started to drop, well slugging											
10-Oct-16 10:27:00	Pressure dropped to168psi, isolated Lo-Pilot to prevent ESD from tripping.											
10-Oct-16 10:30:00	28	15.0	223	40	74	100	7.0	3.00	3.0	32000		7314.6
10-Oct-16 10:45:00	Rates stabilized, de-isolate lo-pilot, monitored well for further slugging.											
10-Oct-16 10:45:00	28	6.5	235	41	92	100	7.0	3.00	3.0	32000		7316.5
10-Oct-16 10:46:00	BSW=100% (trace solids) , pH=7, Gas SG=0.644, CO2=2.5%, H2S=4ppm.											
10-Oct-16 11:00:00	28	6.4	238	41	89	100	7.0	2.50	4.0	32000		7318.4
10-Oct-16 11:15:00	28	6.3	247	42	86	100	7.0	2.50	4.0	32000		7320.3
10-Oct-16 11:30:00	28	4.9	239	41	87	100	7.0	2.50	4.0	32000		7322.2
10-Oct-16 11:45:00	28	3.6	235	41	86	100	7.0	2.50	4.0	32000		7324.1
10-Oct-16 12:00:00	28	3.6	238	42	87	100	7.0	2.50	4.0	32000		7326.0
10-Oct-16 12:15:00	28	3.2	234	42	86	100	7.0	2.50	4.0	32000		7327.9
10-Oct-16 12:30:00	28	2.9	234	42	86	100	7.0	2.50	4.0	32000		7329.8
10-Oct-16 12:45:00	28	3.8	237	42	86	100	7.0	2.50	4.0	32000		7331.7
10-Oct-16 13:00:00	Electrical Conductivity=59mS, Water Density=1013.8kg/m3 @30.2degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-296.0mV2. Salinity=32000 ppm											
10-Oct-16 13:00:00	28	3.7	242	42	88	100	7.0	2.50	4.0	32000		7333.6
10-Oct-16 13:10:00	WHP started to drop, well slugging.											
10-Oct-16 13:15:00	Pressure dropped to127psi, isolated Lo-Pilot to prevent ESD from tripping.											
10-Oct-16 13:15:00	28	12.4	134	42	62	100	7.0	2.50	4.0	32000		7335.5
10-Oct-16 13:30:00	28	6.4	237	42	90	100	7.0	2.50	4.0	32000		7337.4
10-Oct-16 13:45:00	28	6.5	241	42	86	100	7.0	2.50	4.0	32000		7339.3
10-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=3ppm.											
10-Oct-16 14:00:00	28	3.4	241	42	84	100	7.0	3.50	3.0	32000		7341.3
10-Oct-16 14:15:00	28	3.6	240	42	86	100	7.0	3.50	3.0	32000		7342.2
10-Oct-16 14:30:00	28	3.4	236	42	86	100	7.0	3.50	3.0	32000		7343.1
10-Oct-16 14:45:00	28	3.7	240	42	85	100	7.0	3.50	3.0	32000		7344.0
10-Oct-16 15:00:00	Electrical Conductivity=61.1mS, Water Density=1014.5kg/m3 @29.3degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-291.0mV2. Salinity=30000 ppm											
10-Oct-16 15:00:00	28	3.8	236	42	86	100	7.0	3.50	3.0	30000		7345.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
10-Oct-16 15:15:00	28	3.6	238	41	86	100	7.0	3.50	3.0	30000		7345.9
10-Oct-16 15:30:00	28	3.8	232	42	84	100	7.0	3.50	3.0	30000		7346.8
10-Oct-16 15:45:00	28	3.6	238	41	86	100	7.0	3.50	3.0	30000		7347.7
10-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
10-Oct-16 16:00:00	Took Isotube gas sample #22 @ 65 psi, 46 degC.											
10-Oct-16 16:00:00	28	3.5	241	42	85	100	7.0	3.00	4.0	30000		7348.7
10-Oct-16 16:15:00	28	3.8	244	41	84	100	7.0	3.00	4.0	30000		7349.6
10-Oct-16 16:30:00	28	3.8	238	41	86	100	7.0	3.00	4.0	30000		7350.5
10-Oct-16 16:45:00	28	3.7	237	40	86	100	7.0	3.00	4.0	30000		7351.5
10-Oct-16 17:00:00	Pumped Frac Tank into pond.											
10-Oct-16 17:00:00	28	3.8	239	40	84	100	7.0	3.00	4.0	30000		7352.4
10-Oct-16 17:15:00	28	3.8	231	39	86	100	7.0	3.00	4.0	30000		7354.4
10-Oct-16 17:30:00	28	3.7	237	39	86	100	7.0	3.00	4.0	30000		7356.4
10-Oct-16 17:45:00	28	3.8	235	39	86	100	7.0	3.00	4.0	30000		7358.4
10-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
10-Oct-16 18:00:00	28	3.8	239	38	86	100	7.0	3.00	4.0	30000		7360.4
10-Oct-16 18:15:00	28	3.8	234	38	87	100	7.0	3.00	4.0	30000		7362.3
10-Oct-16 18:30:00	28	3.9	233	38	86	100	7.0	3.00	4.0	30000		7364.3
10-Oct-16 18:45:00	28	6.7	239	38	87	100	7.0	3.00	4.0	30000		7366.2
10-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
10-Oct-16 19:00:00	Electrical Conductivity=53.8mS, Water Density=1012.4kg/m3 @33degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-292.5mV2. Salinity=33000 ppm											
10-Oct-16 19:00:00	28	6.6	235	37	87	100	7.0	3.00	4.0	33000		7368.2
10-Oct-16 19:15:00	28	6.8	233	37	86	100	7.0	3.00	4.0	33000		7370.1
10-Oct-16 19:30:00	28	7.6	237	36	84	100	7.0	3.00	4.0	33000		7372.1
10-Oct-16 19:45:00	28	8.4	236	36	86	100	7.0	3.00	4.0	33000		7374.0
10-Oct-16 20:00:00	28	9.6	236	36	87	100	7.0	3.00	4.0	33000		7376.0
10-Oct-16 20:15:00	28	9.8	233	36	86	100	7.0	3.00	4.0	33000		7378.0
10-Oct-16 20:30:00	28	9.6	232	36	87	100	7.0	3.00	4.0	33000		7380.1
10-Oct-16 20:45:00	28	9.6	236	36	87	100	7.0	3.00	4.0	33000		7382.1
10-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
10-Oct-16 21:00:00	Electrical Conductivity=52.12mS, Water Density=1012.9kg/m3 @30.8degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-273.3mV2. Salinity=33000 ppm											
10-Oct-16 21:00:00	28	9.6	230	36	87	100	7.0	3.00	3.0	33000		7384.2
10-Oct-16 21:15:00	28	9.6	229	36	86	100	7.0	3.00	3.0	33000		7385.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
10-Oct-16 21:30:00	28	9.7	230	35	85	100	7.0	3.00	3.0	33000		7387.7
10-Oct-16 21:45:00	28	9.8	231	35	85	100	7.0	3.00	3.0	33000		7389.4
10-Oct-16 22:00:00	28	9.6	230	35	86	100	7.0	3.00	3.0	33000		7391.2
10-Oct-16 22:15:00	28	9.6	235	35	86	100	7.0	3.00	3.0	33000		7392.9
10-Oct-16 22:30:00	28	9.4	230	35	85	100	7.0	3.00	3.0	33000		7394.5
10-Oct-16 22:45:00	28	9.4	233	35	86	100	7.0	3.00	3.0	33000		7396.2
10-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
10-Oct-16 23:00:00	Electrical Conductivity=50.39mS, Water Density=1012.5kg/m3 @30.6degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-307.9mV2. Salinity=28000 ppm											
10-Oct-16 23:00:00	28	9.4	227	35	86	100	7.0	3.00	3.0	28000		7397.8
10-Oct-16 23:15:00	28	9.4	230	36	86	100	7.0	3.00	3.0	28000		7399.7
10-Oct-16 23:30:00	28	9.4	235	36	86	100	7.0	3.00	3.0	28000		7401.5
10-Oct-16 23:45:00	28	9.6	236	35	87	100	7.0	3.00	3.0	28000		7403.4
11-Oct-16 00:00:00	28	9.6	229	35	85	100	7.0	3.00	3.0	28000		7405.2
11-Oct-16 00:15:00	28	9.6	232	35	87	100	7.0	3.00	3.0	28000		7407.2
11-Oct-16 00:30:00	28	9.8	236	35	89	100	7.0	3.00	3.0	28000		7409.2
11-Oct-16 00:45:00	28	9.6	236	35	89	100	7.0	3.00	3.0	28000		7411.2
11-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
11-Oct-16 01:00:00	Electrical Conductivity=49.95mS, Water Density=1013.6kg/m3 @28.2degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-230.8mV2. Salinity=27000 ppm											
11-Oct-16 01:00:00	28	9.6	238	35	85	100	7.0	3.00	3.0	27000		7413.2
11-Oct-16 01:15:00	28	9.8	234	35	87	100	7.0	3.00	3.0	27000		7415.4
11-Oct-16 01:30:00	28	9.6	237	35	87	100	7.0	3.00	3.0	27000		7417.7
11-Oct-16 01:45:00	28	9.6	237	35	87	100	7.0	3.00	3.0	27000		7419.9
11-Oct-16 02:00:00	28	10.6	228	35	87	100	7.0	3.00	3.0	27000		7422.1
11-Oct-16 02:15:00	28	12.6	228	34	87	100	7.0	3.00	3.0	27000		7424.6
11-Oct-16 02:30:00	28	11.0	226	34	86	100	7.0	3.00	3.0	27000		7427.0
11-Oct-16 02:45:00	28	12.6	233	34	87	100	7.0	3.00	3.0	27000		7429.4
11-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
11-Oct-16 03:00:00	Electrical Conductivity=50.49mS, Water Density=1013.5kg/m3 @28.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-188.2mV2. Salinity=25000 ppm											
11-Oct-16 03:00:00	28	12.6	228	34	87	100	7.0	3.00	3.0	25000		7431.8
11-Oct-16 03:15:00	28	12.6	229	34	87	100	7.0	3.00	3.0	25000		7432.6
11-Oct-16 03:30:00	28	12.6	230	35	85	100	7.0	3.00	3.0	25000		7433.4
11-Oct-16 03:45:00	28	12.6	225	35	86	100	7.0	3.00	3.0	25000		7434.2
11-Oct-16 04:00:00	28	12.4	237	34	86	100	7.0	3.00	3.0	25000		7435.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
11-Oct-16 04:15:00	28	12.4	230	34	87	100	7.0	3.00	3.0	25000		7436.9
11-Oct-16 04:30:00	28	11.6	237	34	87	100	7.0	3.00	3.0	25000		7438.7
11-Oct-16 04:45:00	28	12.6	229	34	86	100	7.0	3.00	3.0	25000		7440.6
11-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
11-Oct-16 05:00:00	Electrical Conductivity=51.21mS, Water Density=1013.4kg/m3 @28.7degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-172.6mV2. Salinity=25000 ppm											
11-Oct-16 05:00:00	28	12.4	229	34	86	100	7.0	3.00	3.0	25000		7442.4
11-Oct-16 05:15:00	28	12.4	229	34	85	100	7.0	3.00	3.0	25000		7444.1
11-Oct-16 05:30:00	28	10.0	232	34	86	100	7.0	3.00	3.0	25000		7445.8
11-Oct-16 05:45:00	28	9.6	232	35	87	100	7.0	3.00	3.0	25000		7447.6
11-Oct-16 06:00:00	28	9.9	226	34	86	100	7.0	3.00	3.0	25000		7449.3
11-Oct-16 06:15:00	28	11.8	234	34	85	100	7.0	3.00	3.0	25000		7451.4
11-Oct-16 06:30:00	28	11.5	229	33	85	100	7.0	3.00	3.0	25000		7453.4
11-Oct-16 06:45:00	28	9.6	234	33	87	100	7.0	3.00	3.0	25000		7455.5
11-Oct-16 07:00:00	28	9.5	231	34	86	100	7.0	3.00	3.0	25000		7457.6
11-Oct-16 07:15:00	28	9.4	227	35	86	100	7.0	3.00	3.0	25000		7459.2
11-Oct-16 07:30:00	28	9.3	236	36	84	100	7.0	3.00	3.0	25000		7460.8
11-Oct-16 07:45:00	28	9.3	236	36	86	100	7.0	3.00	3.0	25000		7462.4
11-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
11-Oct-16 08:00:00	28	6.3	238	37	87	100	7.0	3.00	4.0	25000		7464.0
11-Oct-16 08:15:00	28	6.1	236	37	87	100	7.0	3.00	4.0	25000		7465.7
11-Oct-16 08:30:00	28	6.1	227	38	86	100	7.0	3.00	4.0	25000		7467.3
11-Oct-16 08:45:00	28	6.3	230	38	87	100	7.0	3.00	4.0	25000		7468.9
11-Oct-16 09:00:00	Electrical Conductivity=54.3mS, Water Density=1013.4kg/m3 @29.3degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-180.6mV2. Salinity=27000 ppm											
11-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=2.5ppm.											
11-Oct-16 09:00:00	28	6.5	231	38	86	100	7.0	3.00	2.5	27000		7470.5
11-Oct-16 09:15:00	28	6.3	236	38	86	100	7.0	3.00	2.5	27000		7472.3
11-Oct-16 09:30:00	28	6.3	241	38	86	100	7.0	3.00	2.5	27000		7474.0
11-Oct-16 09:45:00	28	6.5	239	39	87	100	7.0	3.00	2.5	27000		7475.8
11-Oct-16 10:00:00	28	6.3	232	39	86	100	7.0	3.00	2.5	27000		7477.5
11-Oct-16 10:15:00	28	6.1	236	39	87	100	7.0	3.00	2.5	27000		7479.3
11-Oct-16 10:30:00	28	6.1	233	40	86	100	7.0	3.00	2.5	27000		7481.1
11-Oct-16 10:45:00	28	5.7	241	40	86	100	7.0	3.00	2.5	27000		7482.8
11-Oct-16 11:00:00	Electrical Conductivity=48mS, Water Density=1014.8kg/m3 @27.1degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-186.4mV2. Salinity=26000 ppm											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
11-Oct-16 11:00:00	28	3.5	233	40	86	100	7.0	3.00	2.5	26000		7484.6
11-Oct-16 11:15:00	28	3.6	235	40	87	100	7.0	3.00	2.5	26000		7486.3
11-Oct-16 11:30:00	28	3.4	235	40	87	100	7.0	3.00	2.5	26000		7488.1
11-Oct-16 11:45:00	28	3.4	238	41	87	100	7.0	3.00	2.5	26000		7489.8
11-Oct-16 12:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.											
11-Oct-16 12:00:00	28	3.4	234	40	86	100	7.0	2.50	3.5	26000		7491.6
11-Oct-16 12:15:00	28	3.4	237	40	86	100	7.0	2.50	3.5	26000		7493.3
11-Oct-16 12:30:00	28	3.6	236	40	86	100	7.0	2.50	3.5	26000		7495.1
11-Oct-16 12:45:00	28	3.6	235	41	84	100	7.0	2.50	3.5	26000		7496.9
11-Oct-16 13:00:00	Electrical Conductivity=60mS, Water Density=1012.4kg/m3 @33.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-182mV2. Salinity=26000 ppm											
11-Oct-16 13:00:00	28	3.4	233	41	87	100	7.0	2.50	3.5	26000		7498.6
11-Oct-16 13:15:00	28	3.9	231	41	87	100	7.0	2.50	3.5	26000		7500.4
11-Oct-16 13:30:00	28	3.2	241	41	87	100	7.0	2.50	3.5	26000		7502.1
11-Oct-16 13:45:00	28	3.4	234	41	86	100	7.0	2.50	3.5	26000		7503.9
11-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.											
11-Oct-16 14:00:00	28	3.6	231	40	86	100	7.0	2.50	3.5	26000		7505.6
11-Oct-16 14:15:00	28	3.3	232	40	86	100	7.0	2.50	3.5	26000		7507.4
11-Oct-16 14:30:00	28	3.4	235	41	87	100	7.0	2.50	3.5	26000		7509.2
11-Oct-16 14:45:00	28	3.5	233	41	88	100	7.0	2.50	3.5	26000		7510.9
11-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.											
11-Oct-16 15:00:00	28	3.4	238	41	88	100	7.0	2.50	3.5	26000		7512.7
11-Oct-16 15:15:00	28	3.6	240	41	88	100	7.0	2.50	3.5	26000		7513.8
11-Oct-16 15:30:00	28	3.6	238	41	87	100	7.0	2.50	3.5	26000		7515.0
11-Oct-16 15:45:00	28	3.6	230	41	87	100	7.0	2.50	3.5	26000		7516.1
11-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
11-Oct-16 16:00:00	Took Isotube gas sample #23 @ 65 psi, 46 degC.											
11-Oct-16 16:00:00	28	3.6	231	41	87	100	7.0	3.00	4.0	26000		7517.3
11-Oct-16 16:15:00	28	3.6	232	40	87	100	7.0	3.00	4.0	26000		7518.1
11-Oct-16 16:30:00	28	3.7	239	39	89	100	7.0	3.00	4.0	26000		7519.0
11-Oct-16 16:45:00	28	3.6	232	39	87	100	7.0	3.00	4.0	26000		7519.9
11-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.											
11-Oct-16 17:00:00	Electrical Conductivity=58.2mS, Water Density=1013.2kg/m3 @32.1degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-182.3mV2. Salinity=26000 ppm											
11-Oct-16 17:00:00	28	3.6	234	38	87	100	7.0	3.00	4.0	26000		7520.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
11-Oct-16 17:15:00	28	3.6	232	38	87	100	7.0	3.00	4.0	26000		7521.6
11-Oct-16 17:30:00	28	3.9	234	38	87	100	7.0	3.00	4.0	26000		7522.5
11-Oct-16 17:45:00	28	3.8	234	37	89	100	7.0	3.00	4.0	26000		7523.4
11-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.											
11-Oct-16 18:00:00	28	4.1	236	37	89	100	7.0	2.50	4.0	26000		7524.3
11-Oct-16 18:15:00	28	5.5	238	37	86	100	7.0	2.50	4.0	26000		7525.9
11-Oct-16 18:30:00	28	5.1	230	37	87	100	7.0	2.50	4.0	26000		7527.6
11-Oct-16 18:45:00	28	6.5	230	37	87	100	7.0	2.50	4.0	26000		7529.3
11-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.											
11-Oct-16 19:00:00	Electrical Conductivity=54.9mS, Water Density=1012.8kg/m3 @31.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-158.9mV2. Salinity=25000 ppm											
11-Oct-16 19:00:00	28	6.7	232	36	87	100	7.0	2.50	4.0	25000		7531.0
11-Oct-16 19:15:00	28	6.7	231	36	87	100	7.0	2.50	4.0	25000		7532.8
11-Oct-16 19:30:00	28	6.7	231	36	86	100	7.0	2.50	4.0	25000		7534.5
11-Oct-16 19:45:00	28	6.7	229	36	87	100	7.0	2.50	4.0	25000		7536.3
11-Oct-16 20:00:00	28	6.7	234	36	87	100	7.0	2.50	4.0	25000		7538.0
11-Oct-16 20:15:00	28	6.7	227	36	87	100	7.0	2.50	4.0	25000		7539.8
11-Oct-16 20:30:00	28	6.7	227	36	86	100	7.0	2.50	4.0	25000		7541.5
11-Oct-16 20:45:00	28	6.5	228	36	87	100	7.0	2.50	4.0	25000		7543.3
11-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
11-Oct-16 21:00:00	Electrical Conductivity=54.8mS, Water Density=1013.7kg/m3 @30.5degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-173.2mV2. Salinity=24000 ppm											
11-Oct-16 21:00:00	28	6.9	233	36	87	100	7.0	3.00	4.0	24000		7545.1
11-Oct-16 21:15:00	28	6.7	235	36	87	100	7.0	3.00	4.0	24000		7546.7
11-Oct-16 21:30:00	28	6.5	228	35	86	100	7.0	3.00	4.0	24000		7548.4
11-Oct-16 21:45:00	28	6.7	230	35	87	100	7.0	3.00	4.0	24000		7550.0
11-Oct-16 22:00:00	28	6.9	234	35	86	100	7.0	3.00	4.0	24000		7551.7
11-Oct-16 22:15:00	28	6.9	232	34	87	100	7.0	3.00	4.0	24000		7553.4
11-Oct-16 22:30:00	28	6.7	232	34	86	100	7.0	3.00	4.0	24000		7555.2
11-Oct-16 22:45:00	28	6.7	228	34	86	100	7.0	3.00	4.0	24000		7556.9
11-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
11-Oct-16 23:00:00	Electrical Conductivity=53.2mS, Water Density=1013.8kg/m3 @29degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-151.7mV2. Salinity=22000 ppm											
11-Oct-16 23:00:00	28	6.7	229	34	87	100	7.0	3.00	4.0	22000		7558.7
11-Oct-16 23:15:00	28	6.9	228	34	87	100	7.0	3.00	4.0	22000		7560.4
11-Oct-16 23:30:00	28	6.9	231	34	86	100	7.0	3.00	4.0	22000		7562.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
11-Oct-16 23:45:00	28	6.7	228	34	86	100	7.0	3.00	4.0	22000		7563.7
12-Oct-16 00:00:00	28	6.9	231	34	87	100	7.0	3.00	4.0	22000		7565.3
12-Oct-16 00:15:00	28	6.7	231	35	86	100	7.0	3.00	4.0	22000		7567.1
12-Oct-16 00:30:00	28	7.3	234	35	86	100	7.0	3.00	4.0	22000		7568.9
12-Oct-16 00:45:00	28	8.7	224	35	86	100	7.0	3.00	4.0	22000		7570.6
12-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 01:00:00	Electrical Conductivity=54.5mS, Water Density=1012.6kg/m3 @28.8degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-155.6mV2. Salinity=22000 ppm											
12-Oct-16 01:00:00	28	9.6	226	34	87	100	7.0	3.00	4.0	22000		7572.4
12-Oct-16 01:15:00	28	9.6	234	33	89	100	7.0	3.00	4.0	22000		7574.3
12-Oct-16 01:30:00	28	9.6	227	34	87	100	7.0	3.00	4.0	22000		7576.2
12-Oct-16 01:45:00	28	8.7	232	34	89	100	7.0	3.00	4.0	22000		7578.2
12-Oct-16 02:00:00	28	9.6	229	34	87	100	7.0	3.00	4.0	22000		7580.1
12-Oct-16 02:15:00	28	9.7	227	33	87	100	7.0	3.00	4.0	22000		7581.7
12-Oct-16 02:30:00	28	9.6	227	33	87	100	7.0	3.00	4.0	22000		7583.2
12-Oct-16 02:45:00	28	9.6	233	33	88	100	7.0	3.00	4.0	22000		7584.8
12-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 03:00:00	Electrical Conductivity=52mS, Water Density=1014kg/m3 @27.6degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-173.2mV2. Salinity=19000 ppm											
12-Oct-16 03:00:00	28	9.6	228	34	88	100	7.0	3.00	4.0	19000		7586.4
12-Oct-16 03:15:00	28	9.8	228	33	87	100	7.0	3.00	4.0	19000		7588.0
12-Oct-16 03:30:00	28	9.6	225	33	87	100	7.0	3.00	4.0	19000		7589.6
12-Oct-16 03:45:00	28	9.8	234	32	87	100	7.0	3.00	4.0	19000		7591.2
12-Oct-16 04:00:00	28	9.6	226	32	87	100	7.0	3.00	4.0	19000		7592.8
12-Oct-16 04:15:00	28	9.8	230	32	86	100	7.0	3.00	4.0	19000		7594.6
12-Oct-16 04:30:00	28	9.8	226	33	87	100	7.0	3.00	4.0	19000		7596.5
12-Oct-16 04:45:00	28	9.4	229	32	87	100	7.0	3.00	4.0	19000		7598.3
12-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 05:00:00	Electrical Conductivity=51.4mS, Water Density=1014.5kg/m3 @26.5degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-149.1mV2. Salinity=19000 ppm											
12-Oct-16 05:00:00	28	9.4	230	32	87	100	7.0	3.00	4.0	19000		7600.2
12-Oct-16 05:15:00	28	9.8	225	32	87	100	7.0	3.00	4.0	19000		7602.0
12-Oct-16 05:30:00	28	9.6	226	32	87	100	7.0	3.00	4.0	19000		7603.8
12-Oct-16 05:45:00	28	9.6	219	32	84	100	7.0	3.00	4.0	19000		7605.7
12-Oct-16 06:00:00	28	9.6	226	32	87	100	7.0	3.00	4.0	20000		7607.5
12-Oct-16 06:15:00	28	9.8	227	32	87	100	7.0	3.00	4.0	20000		7609.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
12-Oct-16 06:30:00	28	9.6	228	32	87	100	7.0	3.00	4.0	20000		7611.0
12-Oct-16 06:45:00	28	9.6	225	32	87	100	7.0	3.00	4.0	20000		7612.7
12-Oct-16 06:56:00	WHP started to drop, well slugging.											
12-Oct-16 07:00:00	28	9.6	197	32	81	100	7.0	4.00	4.0	21600		7614.4
12-Oct-16 07:06:00	Water at surface, collected sample BSW=100%, pH=7, Gas SG=0.65, CO2=4%, H2S=4ppm.											
12-Oct-16 07:06:00	Slug water results; BSW 100% Electrical Conductivity=54.1mS, Water Density=1014.6kg/m3 @26.1degC, Dissolved Oxygen=1.8%S, Oxidation Reduction Potential=-148.2mV2. Salinity=21600 ppm											
12-Oct-16 07:15:00	28	9.6	235	33	103	100	7.0	4.00	4.0	21600		7616.1
12-Oct-16 07:20:00	Tried to capture another BSW, was not enough liquid at sample point. No sign of solids in sample.											
12-Oct-16 07:22:00	Rates stabilized.											
12-Oct-16 07:30:00	28	9.4	228	33	98	100	7.0	4.00	4.0	21600		7617.9
12-Oct-16 07:45:00	28	9.6	230	33	96	100	7.0	4.00	4.0	21600		7619.6
12-Oct-16 08:00:00	28	9.4	228	33	96	100	7.0	4.00	4.0	20000		7621.3
12-Oct-16 08:15:00	28	8.1	230	34	96	100	7.0	4.00	4.0	20000		7622.8
12-Oct-16 08:21:00	Pumped out frac tank to pond											
12-Oct-16 08:30:00	28	6.5	226	34	96	100	7.0	4.00	4.0	20000		7624.4
12-Oct-16 08:45:00	28	6.3	225	35	96	100	7.0	4.00	4.0	20000		7625.9
12-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.											
12-Oct-16 09:00:00	28	6.3	235	35	98	100	7.0	2.50	4.0	20000		7627.4
12-Oct-16 09:15:00	28	6.5	230	36	97	100	7.0	2.50	4.0	20000		7628.9
12-Oct-16 09:30:00	28	6.5	229	36	98	100	7.0	2.50	4.0	20000		7630.4
12-Oct-16 09:41:00	WHP started to drop, well slugging.											
12-Oct-16 09:45:00	28	6.3	174	36	78	100	7.0	2.50	4.0	20000		7632.0
12-Oct-16 09:47:00	Water at surface, Collected Sample.											
12-Oct-16 09:48:00	Slug water results: BSW 100% Electrical Conductivity=58.1mS, Water Density=1013.7kg/m3 @29.5degC, Dissolved Oxygen=1.9%S, Oxidation Reduction Potential=-156.7mV2. Salinity=20000 ppm											
12-Oct-16 10:00:00	28	9.4	250	37	102	100	7.0	2.50	4.0	20000		7633.5
12-Oct-16 10:15:00	28	6.3	234	37	92	100	7.0	2.50	4.0	20000		7635.0
12-Oct-16 10:30:00	28	6.3	234	38	92	100	7.0	2.50	4.0	20000		7636.5
12-Oct-16 10:45:00	28	6.3	228	38	90	100	7.0	2.50	4.0	20000		7638.1
12-Oct-16 11:00:00	Instructed by client to bean up to 30/64" adjustable choke.											
12-Oct-16 11:00:00	28	6.5	229	38	90	100	7.0	2.50	4.0	20000		7639.6
12-Oct-16 11:10:00	Lowerd Separator pressure to 60psig so that critical flow was maintained after choke was beaned up.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
12-Oct-16 11:12:00	Increased Choke to 30/64" adjustable.											
12-Oct-16 11:15:00	30	3.7	218	39	72	100	7.0	2.50	4.0	20000		7641.1
12-Oct-16 11:18:00	Re-adjusted separator pressure to 60psig.											
12-Oct-16 11:30:00	30	6.3	223	39	84	100	7.0	2.50	4.0	20000		7642.6
12-Oct-16 11:45:00	30	3.2	224	39	86	100	7.0	2.50	4.0	20000		7644.1
12-Oct-16 12:00:00	30	3.4	224	39	84	100	7.0	2.50	4.0	23000		7645.7
12-Oct-16 12:15:00	30	3.6	223	39	84	100	7.0	2.50	4.0	23000		7647.4
12-Oct-16 12:30:00	30	3.5	229	39	84	100	7.0	2.50	4.0	23000		7649.2
12-Oct-16 12:45:00	30	3.6	220	40	86	100	7.0	2.50	4.0	23000		7651.0
12-Oct-16 12:52:00	Lower Separator Pressure to 60psig.											
12-Oct-16 12:54:00	Lowerd Separator pressure to 50psig so that critical flow was maintained after choke was beaned up.											
12-Oct-16 12:55:00	Increased choke to 32/64" adjustable.											
12-Oct-16 13:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 13:00:00	32	3.6	207	41	77	100	7.0	3.00	4.0	23000		7652.8
12-Oct-16 13:15:00	32	3.4	204	40	77	100	7.0	3.00	4.0	23000		7654.6
12-Oct-16 13:22:00	Instructed by client to bean up to 40/64" adjustable choke.											
12-Oct-16 13:30:00	32	3.2	154	40	66	100	7.0	3.00	4.0	23000		7656.4
12-Oct-16 13:45:00	32	6.1	157	40	68	100	7.0	3.00	4.0	23000		7658.2
12-Oct-16 13:50:00	Instructed by client to bean up to 64/64" adjustable choke.											
12-Oct-16 13:53:51	Slowly beaned up choke to 56/64" adjustable in 2/64" increments.											
12-Oct-16 14:00:00	32	6.3	141	40	62	100	7.0	3.00	4.0	23000		7660.0
12-Oct-16 14:15:00	32	6.3	114	40	52	100	7.0	3.00	4.0	23000		7661.7
12-Oct-16 14:24:00	Choke at 56/64" adjustable. Stopped increasing choke to maintain critical flow and separator operating pressure.											
12-Oct-16 14:30:00	56	9.3	98	40	42	100	7.0	3.00	4.0	23000		7663.5
12-Oct-16 14:45:00	56	9.1	95	40	43	100	7.0	3.00	4.0	23000		7665.3
12-Oct-16 15:00:00	BSW=100% (trace solids), pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 15:00:00	56	9.4	99	39	44	100	7.0	3.00	4.0	22000		7667.1
12-Oct-16 15:01:00	Electrical Conductivity=61.5mS, Water Density=1014.6kg/m3 @33.0degC, Dissolved Oxygen=2.1%S, Oxidation Reduction Potential=-183.0mV2. Salinity=22000 ppm											
12-Oct-16 15:15:00	56	9.5	101	39	44	100	7.0	3.00	4.0	22000		7668.7
12-Oct-16 15:30:00	56	9.4	96	39	43	100	7.0	3.00	4.0	22000		7670.3
12-Oct-16 15:45:00	56	9.3	94	39	41	100	7.0	3.00	4.0	22000		7671.8
12-Oct-16 16:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
12-Oct-16 16:00:00	Took Isotube gas sample #23 @ 33psia 39degC											
12-Oct-16 16:00:00	56	9.4	97	39	43	100	7.0	3.00	3.0	21000		7673.4
12-Oct-16 16:01:00	Electrical Conductivity 56.1 =mS, Water Density=1014.9kg/m3 @28.0degC, Dissolved Oxygen=2.4%S, Oxidation Reduction Potential=-183.0mV2. Salinity=21000 ppm											
12-Oct-16 16:10:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
12-Oct-16 16:15:00	56	9.6	95	38	43	100	7.0	3.00	3.0	21000		7676.0
12-Oct-16 16:30:00	56	9.3	98	38	43	100	7.0	3.00	3.0	21000		7678.6
12-Oct-16 16:40:00	WHP started to drop, well slugging											
12-Oct-16 16:45:00	56	12.2	73	38	34	100	7.0	3.00	3.0	21000		7681.2
12-Oct-16 16:48:00	BSW=100% (trace solid), pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
12-Oct-16 16:48:00	WHP restablized from water slug.											
12-Oct-16 17:00:00	56	9.3	89	38	39	100	7.0	3.00	3.0	21000		7683.8
12-Oct-16 17:15:00	56	9.1	98	37	41	100	7.0	3.00	3.0	21000		7686.3
12-Oct-16 17:30:00	Dart crashed lost connection to Interact.											
12-Oct-16 17:30:00	56	9.9	94	37	40	100	7.0	3.00	3.0	21000		7688.9
12-Oct-16 17:35:00	Re-established Dart and Interact connection.											
12-Oct-16 17:41:00	Dart crashed lost connection to Interact.											
12-Oct-16 17:43:00	Re-established Dart and Interact connection.											
12-Oct-16 17:45:00	56	12.4	105	37	43	100	7.0	3.00	3.0	21000		7691.4
12-Oct-16 18:00:00	56	12.7	109	36	44	100	7.0	3.00	3.0	21000		7694.0
12-Oct-16 18:15:00	56	12.2	98	36	41	100	7.0	3.00	3.0	21000		7695.3
12-Oct-16 18:30:00	56	11.1	92	36	40	100	7.0	3.00	3.0	21000		7696.7
12-Oct-16 18:45:00	56	10.3	97	36	40	100	7.0	3.00	3.0	21000		7698.1
12-Oct-16 19:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=2%, H2S=4ppm.											
12-Oct-16 19:00:00	Electrical Conductivity=57mS, Water Density=1013.1kg/m3 @30.3degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-166.5mV2. Salinity=19000 ppm											
12-Oct-16 19:00:00	56	12.6	94	35	40	100	7.0	2.00	4.0	19000		7699.5
12-Oct-16 19:15:00	56	12.6	95	35	40	100	7.0	2.00	4.0	19000		7702.4
12-Oct-16 19:30:00	56	12.6	93	35	40	100	7.0	2.00	4.0	19000		7705.4
12-Oct-16 19:45:00	56	12.6	92	35	40	100	7.0	2.00	4.0	19000		7708.3
12-Oct-16 20:00:00	56	18.4	84	35	37	100	7.0	2.00	4.0	19000		7711.2
12-Oct-16 20:15:00	56	15.7	93	35	40	100	7.0	2.00	4.0	19000		7712.0
12-Oct-16 20:30:00	56	12.7	95	35	41	100	7.0	2.00	4.0	19000		7712.8
12-Oct-16 20:45:00	56	12.4	94	34	41	100	7.0	2.00	4.0	19000		7713.6
12-Oct-16 21:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
12-Oct-16 21:00:00	Electrical Conductivity=55.4mS, Water Density=1013.7kg/m3 @29.4degC, Dissolved Oxygen=2.0%S, Oxidation Reduction Potential=-173.2mV2. Salinity=18000 ppm											
12-Oct-16 21:00:00	56	12.8	93	34	40	100	7.0	3.00	3.0	18000		7714.3
12-Oct-16 21:15:00	56	12.6	89	34	40	100	7.0	3.00	3.0	18000		7360.4
12-Oct-16 21:30:00	56	12.6	102	34	43	100	7.0	3.00	3.0	18000		7006.5
12-Oct-16 21:45:00	56	12.6	96	34	41	100	7.0	3.00	3.0	18000		6652.6
12-Oct-16 22:00:00	56	12.7	93	34	41	100	7.0	3.00	3.0	18000		6298.7
12-Oct-16 22:15:00	56	12.6	91	33	40	100	7.0	3.00	3.0	18000		6655.8
12-Oct-16 22:30:00	56	12.5	93	33	40	100	7.0	3.00	3.0	18000		7013.0
12-Oct-16 22:45:00	56	12.6	90	33	40	100	7.0	3.00	3.0	18000		7370.1
12-Oct-16 23:00:00	BSW=100% with trace of solids, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
12-Oct-16 23:00:00	Electrical Conductivity=53.6mS, Water Density=1013.9kg/m3 @28.3degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-181.7mV2. Salinity=20000 ppm											
12-Oct-16 23:00:00	56	12.6	93	33	40	100	7.0	3.00	3.0	20000		7727.2
12-Oct-16 23:15:00	56	12.6	92	32	41	100	7.0	3.00	3.0	20000		7729.1
12-Oct-16 23:30:00	56	12.6	94	33	41	100	7.0	3.00	3.0	20000		7730.9
12-Oct-16 23:44:00	Dart crashed lost connection to Interact.											
12-Oct-16 23:45:00	56	12.8	93	33	41	100	7.0	3.00	3.0	20000		7732.8
12-Oct-16 23:46:00	Re-established Dart and Interact connection.											
13-Oct-16 00:00:00	56	12.6	87	33	40	100	7.0	3.00	3.0	20000		7734.6
13-Oct-16 00:15:00	56	12.8	89	32	40	100	7.0	3.00	3.0	20000		7736.9
13-Oct-16 00:30:00	56	12.8	88	32	40	100	7.0	3.00	3.0	20000		7739.2
13-Oct-16 00:45:00	56	14.9	92	33	41	100	7.0	3.00	3.0	20000		7741.4
13-Oct-16 01:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
13-Oct-16 01:00:00	Electrical Conductivity=53.9mS, Water Density=1014.1kg/m3 @27.6degC, Dissolved Oxygen=2.3%S, Oxidation Reduction Potential=-180.3mV2. Salinity=20000 ppm											
13-Oct-16 01:00:00	56	12.8	90	32	40	100	7.0	3.00	3.0	20000		7743.7
13-Oct-16 01:15:00	56	12.4	91	32	40	100	7.0	3.00	3.0	20000		7745.0
13-Oct-16 01:30:00	56	12.8	89	32	40	100	7.0	3.00	3.0	20000		7746.4
13-Oct-16 01:45:00	56	13.0	90	32	40	100	7.0	3.00	3.0	20000		7747.7
13-Oct-16 02:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
13-Oct-16 02:00:00	56	12.8	90	32	40	100	7.0	3.00	3.0	20000		7749.1
13-Oct-16 02:15:00	56	12.8	86	32	38	100	7.0	3.00	3.0	20000		7750.9
13-Oct-16 02:30:00	56	15.7	85	33	40	100	7.0	3.00	3.0	20000		7752.8
13-Oct-16 02:45:00	56	12.8	89	32	40	100	7.0	3.00	3.0	20000		7754.6
13-Oct-16 03:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
13-Oct-16 03:00:00	Electrical Conductivity=51.9mS, Water Density=1014.5kg/m3 @26.4degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-182.0mV2. Salinity=20000 ppm											
13-Oct-16 03:00:00	56	12.6	91	32	41	100	7.0	3.00	3.5	20000		7756.4
13-Oct-16 03:15:00	56	12.8	98	32	43	100	7.0	3.00	3.5	20000		7758.0
13-Oct-16 03:30:00	56	12.8	93	32	41	100	7.0	3.00	3.5	20000		7759.7
13-Oct-16 03:45:00	56	12.6	93	32	41	100	7.0	3.00	3.5	20000		7761.3
13-Oct-16 04:00:00	56	12.6	88	32	40	100	7.0	3.00	3.5	20000		7762.9
13-Oct-16 04:15:00	56	12.6	91	32	40	100	7.0	3.00	3.5	20000		7764.8
13-Oct-16 04:30:00	56	12.8	90	32	40	100	7.0	3.00	3.5	20000		7766.8
13-Oct-16 04:45:00	56	18.7	102	32	49	100	7.0	3.00	3.5	20000		7768.7
13-Oct-16 05:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.											
13-Oct-16 05:00:00	Electrical Conductivity=52.0mS, Water Density=1015.8kg/m3 @24.6degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-176.2mV2. Salinity=19000 ppm											
13-Oct-16 05:00:00	56	15.7	91	31	44	100	7.0	3.00	3.5	19000		7770.7
13-Oct-16 05:15:00	56	15.5	97	30	45	100	7.0	3.00	3.5	19000		7772.3
13-Oct-16 05:30:00	56	15.7	89	30	44	100	7.0	3.00	3.5	19000		7773.9
13-Oct-16 05:45:00	56	13.2	92	30	44	100	7.0	3.00	3.5	19000		7775.5
13-Oct-16 06:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.											
13-Oct-16 06:00:00	56	15.7	85	30	43	100	7.0	3.00	3.5	19000		7777.1
13-Oct-16 06:15:00	56	13.2	87	30	43	100	7.0	3.00	3.5	19000		7778.7
13-Oct-16 06:30:00	56	15.7	91	30	44	100	7.0	3.00	3.5	19000		7780.3
13-Oct-16 06:45:00	56	12.6	90	31	44	100	7.0	3.00	3.5	19000		7781.9
13-Oct-16 07:00:00	Electrical Conductivity=52.0mS, Water Density=1014.7kg/m3 @26.0degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-172.02mV2. Salinity=19000 ppm											
13-Oct-16 07:00:00	Reviewed rates over night, VX showed significant increase in water rate since bean up, tank straps showed no significant increase.											
13-Oct-16 07:00:00	56	12.6	91	32	44	100	7.0	3.00	3.5	19000		7783.5
13-Oct-16 07:15:00	Uploaded flow periods and discussed rates issue with VX technical expert.											
13-Oct-16 07:15:00	56	12.6	93	32	44	100	7.0	3.00	3.5	19000		7785.2
13-Oct-16 07:30:00	56	12.4	91	32	43	100	7.0	3.00	3.5	19000		7786.9
13-Oct-16 07:45:00	56	12.4	91	33	43	100	7.0	3.00	3.5	19000		7788.7
13-Oct-16 08:00:00	BSW=100% small trace solids, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.											
13-Oct-16 08:00:00	56	12.4	91	33	44	100	7.0	3.00	3.5	19000		7790.4
13-Oct-16 08:15:00	56	12.2	91	33	44	100	7.0	3.00	3.5	19000		7792.3
13-Oct-16 08:30:00	56	15.5	112	34	49	100	7.0	3.00	3.5	19000		7794.2
13-Oct-16 08:45:00	56	15.5	107	34	46	100	7.0	3.00	3.5	19000		7796.0
13-Oct-16 09:00:00	Electrical Conductivity=51.3mS, Water Density=1014.6kg/m3 @25.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-155.2mV2. Salinity=19000 ppm											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
13-Oct-16 09:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.											
13-Oct-16 09:00:00	56	12.2	85	35	41	100	7.0	3.75	3.0	19000		7797.9
13-Oct-16 09:15:00	56	9.3	91	35	44	100	7.0	3.75	3.0	19000		7799.4
13-Oct-16 09:30:00	56	9.4	91	35	43	100	7.0	3.75	3.0	19000		7800.8
13-Oct-16 09:45:00	56	9.4	89	36	43	100	7.0	3.75	3.0	19000		7802.3
13-Oct-16 10:00:00	Electrical Conductivity=56mS, Water Density=1013.8kg/m3 @32.5degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-179mV2. Salinity=17600 ppm											
13-Oct-16 10:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.											
13-Oct-16 10:00:00	56	9.3	87	36	41	100	7.0	3.75	3.0	17600		7803.8
13-Oct-16 10:14:00	VX technical expert concluded that VX was out of range, started to discuss solutions with town.											
13-Oct-16 10:15:00	56	9.6	103	37	46	100	7.0	3.75	3.0	17600		7805.5
13-Oct-16 10:30:00	56	9.8	93	37	44	100	7.0	3.75	3.0	17600		7807.3
13-Oct-16 10:45:00	56	9.6	98	37	44	100	7.0	3.75	3.0	17600		7809.0
13-Oct-16 11:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.											
13-Oct-16 11:00:00	Electrical Conductivity=57.6mS, Water Density=1014.5kg/m3 @32.8degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-143.2mV2. Salinity=17000 ppm											
13-Oct-16 11:00:00	56	9.6	94	38	44	100	7.0	3.75	3.0	17000		7810.8
13-Oct-16 11:15:00	56	6.7	94	38	43	100	7.0	3.75	3.0	17000		7812.3
13-Oct-16 11:30:00	56	6.3	89	38	43	100	7.0	3.75	3.0	17000		7813.7
13-Oct-16 11:45:00	56	6.5	89	38	43	100	7.0	3.75	3.0	17000		7815.2
13-Oct-16 12:00:00	56	6.7	90	38	43	100	7.0	3.75	3.0	17000		7816.7
13-Oct-16 12:15:00	56	5.9	93	39	43	100	7.0	3.75	3.0	17000		7818.4
13-Oct-16 12:30:00	56	6.3	93	39	44	100	7.0	3.75	3.0	17000		7820.2
13-Oct-16 12:45:00	56	6.5	89	39	42	100	7.0	3.75	3.0	17000		7821.9
13-Oct-16 13:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
13-Oct-16 13:00:00	Electrical Conductivity=58mS, Water Density=1013.9kg/m3 @32degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-152.2mV2. Salinity=16000 ppm											
13-Oct-16 13:00:00	56	7.9	95	39	46	100	7.0	3.00	4.0	16000		7823.7
13-Oct-16 13:15:00	56	6.5	97	39	44	100	7.0	3.00	4.0	16000		7825.3
13-Oct-16 13:30:00	56	6.5	92	39	44	100	7.0	3.00	4.0	16000		7827.0
13-Oct-16 13:45:00	56	6.3	92	39	44	100	7.0	3.00	4.0	16000		7828.6
13-Oct-16 14:00:00	56	6.3	91	39	43	100	7.0	3.00	4.0	16000		7830.3
13-Oct-16 14:15:00	56	6.3	92	39	44	100	7.0	3.00	4.0	16000		7831.6
13-Oct-16 14:19:49	Started choking back to 18/64" adjustable in 2/64" increments to put VX back in range.											
13-Oct-16 14:30:00	56	12.4	223	39	44	100	7.0	3.00	4.0	16000		7832.8
13-Oct-16 14:40:46	Choke at 18/64" adjustable, WHP 402 psia.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
13-Oct-16 14:41:00	Increased separator pressure to 72 psia.											
13-Oct-16 14:45:00	18	3.6	396	40	74	100	7.0	3.00	4.0	16000		7834.1
13-Oct-16 14:54:00	Stopped logging with VX, started import of wet gas license.											
13-Oct-16 14:56:00	Restarted logging with VX.											
13-Oct-16 15:00:00	18	0.6	434	40	81	100	7.0	3.00	4.0	16000		7835.4
13-Oct-16 15:15:00	18	-2.3	448	40	84	100	7.0	3.00	4.0	16000		7835.9
13-Oct-16 15:30:00	18	-2.5	433	40	81	100	7.0	3.00	4.0	16000		7836.4
13-Oct-16 15:45:00	18	-2.5	458	39	83	100	7.0	3.00	4.0	16000		7837.2
13-Oct-16 16:00:00	Took Isotube gas sample #24 at separator.											
13-Oct-16 16:00:00	18	-2.3	417	39	78	100	7.0	3.00	4.0	16000		7838.1
13-Oct-16 16:15:00	18	-2.3	440	39	78	100	7.0	3.00	4.0	16000		7838.8
13-Oct-16 16:30:00	18	-2.1	434	38	77	100	7.0	3.00	4.0	16000		7839.5
13-Oct-16 16:37:00	WHP started to drop, well slugging.											
13-Oct-16 16:45:00	18	-2.3	297	37	57	100	7.0	3.00	4.0	16000		7840.7
13-Oct-16 16:47:00	Water slug at surface.											
13-Oct-16 16:50:00	Gas at surface.											
13-Oct-16 17:00:00	18	-2.3	543	37	83	100	7.0	3.00	4.0	16000		7842.0
13-Oct-16 17:15:00	18	-2.3	537	37	83	100	7.0	3.00	4.0	16000		7843.1
13-Oct-16 17:30:00	18	-2.2	480	35	77	100	7.0	3.00	4.0	16000		7844.2
13-Oct-16 17:45:00	18	-2.3	496	34	80	100	7.0	3.00	4.0	16000		7845.2
13-Oct-16 18:00:00	18	-2.4	563	35	86	100	7.0	3.00	4.0	16000		7846.3
13-Oct-16 18:15:00	18	-2.3	515	34	83	100	7.0	3.00	4.0	16000		7847.3
13-Oct-16 18:30:00	18	-2.3	492	33	75	100	7.0	3.00	4.0	16000		7848.3
13-Oct-16 18:45:00	18	-0.3	350	32	63	100	7.0	3.00	4.0	16000		7849.3
13-Oct-16 19:00:00	Not enough water at sample point to collect BSW.											
13-Oct-16 19:00:00	Gas SG=0.65, CO2=3%, H2S=2ppm.											
13-Oct-16 19:00:00	18	0.7	587	34	93	100	7.0	3.00	2.0	16000		7850.3
13-Oct-16 19:15:00	18	0.8	561	33	92	100	7.0	3.00	2.0	16000		7851.5
13-Oct-16 19:17:00	Dart crashed lost connection to Interact.											
13-Oct-16 19:20:00	Re-established Dart and Interact connection.											
13-Oct-16 19:30:00	18	0.9	495	32	84	100	7.0	3.00	2.0	16000		7852.7
13-Oct-16 19:45:00	18	0.8	518	31	83	100	7.0	3.00	2.0	16000		7853.8
13-Oct-16 20:00:00	18	1.0	509	31	84	100	7.0	3.00	2.0	16000		7855.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
13-Oct-16 20:15:00	18	0.8	317	30	65	100	7.0	3.00	2.0	16000		7856.1
13-Oct-16 20:30:00	18	3.9	595	33	96	100	7.0	3.00	2.0	16000		7857.1
13-Oct-16 20:45:00	18	4.2	600	32	97	100	7.0	3.00	2.0	16000		7858.1
13-Oct-16 21:00:00	BSW=100% dry, pH=7, Gas SG=0.645, CO2=3%, H2S=2ppm.											
13-Oct-16 21:00:00	Electrical Conductivity=55.4mS, Water Density=1019.8kg/m3 @19degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-151.7mV2. Salinity=16000 ppm											
13-Oct-16 21:00:00	18	4.3	542	31	90	100	7.0	3.00	2.0	16000		7859.2
13-Oct-16 21:15:00	18	3.3	526	30	84	100	7.0	3.00	2.0	16000		7860.3
13-Oct-16 21:30:00	18	0.8	527	30	84	100	7.0	3.00	2.0	16000		7861.5
13-Oct-16 21:45:00	18	0.8	517	30	83	100	7.0	3.00	2.0	16000		7862.6
13-Oct-16 22:00:00	18	0.8	517	30	83	100	7.0	3.00	2.0	16000		7863.8
13-Oct-16 22:15:00	18	1.0	511	30	83	100	7.0	3.00	2.0	16000		7864.6
13-Oct-16 22:30:00	18	0.8	512	30	82	100	7.0	3.00	2.0	16000		7865.4
13-Oct-16 22:45:00	18	1.0	512	29	83	100	7.0	3.00	2.0	16000		7866.2
13-Oct-16 23:00:00	BSW=100% dry, pH=7, Gas SG=0.645, CO2=3%, H2S=2ppm.											
13-Oct-16 23:00:00	Electrical Conductivity=55.4mS, Water Density=1019.5kg/m3 @16.1degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-151.7mV2. Salinity=17000 ppm											
13-Oct-16 23:00:00	18	0.8	512	29	82	100	7.0	3.00	2.0	17000		7867.0
13-Oct-16 23:15:00	18	1.0	512	29	82	100	7.0	3.00	2.0	17000		7868.1
13-Oct-16 23:30:00	18	0.8	513	29	82	100	7.0	3.00	2.0	17000		7869.3
13-Oct-16 23:45:00	18	1.0	515	29	83	100	7.0	3.00	2.0	17000		7870.4
14-Oct-16 00:00:00	18	1.0	517	29	83	100	7.0	3.00	2.0	17000		7871.6
14-Oct-16 00:15:00	18	1.2	518	29	84	100	7.0	3.00	2.0	17000		7872.5
14-Oct-16 00:21:00	MP on 18/64" adjustable choke.											
14-Oct-16 00:21:00	Dropped orifice plate 1.500" diameter.											
14-Oct-16 00:30:00	18	0.8	513	29	84	100	7.0	3.00	2.0	17000	0.795	7873.4
14-Oct-16 00:35:00	BSW=100% dry, pH=7, Gas SG=0.644, CO2=4%, H2S=4ppm.											
14-Oct-16 00:45:00	18	3.9	519	29	86	100	7.0	3.00	2.0	17000	0.831	7874.3
14-Oct-16 00:57:00	End of MP.											
14-Oct-16 00:58:00	Lifted 1.500" Orifice Plate.											
14-Oct-16 01:00:00	BSW= dry, no solids, pH=7, Gas SG=0.644, CO2=4%, H2S=4ppm.											
14-Oct-16 01:00:00	Electrical Conductivity=42.8mS, Water Density=1018.2kg/m3 @16.1degC, Dissolved Oxygen=1.7%S, Oxidation Reduction Potential=-142.5mV2. Salinity=16500 ppm											
14-Oct-16 01:00:00	18	3.9	518	29	83	100	7.0	4.00	4.0	16500		7875.3
14-Oct-16 01:15:00	18	3.9	519	29	84	100	7.0	4.00	4.0	16500		7876.2
14-Oct-16 01:30:00	18	3.9	519	28	84	100	7.0	4.00	4.0	16500		7877.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
14-Oct-16 01:45:00	18	3.9	517	28	83	100	7.0	4.00	4.0	16500		7878.0
14-Oct-16 02:00:00	18	4.1	519	28	84	100	7.0	4.00	4.0	16500		7878.9
14-Oct-16 02:15:00	18	3.8	520	28	85	100	7.0	4.00	4.0	16500		7880.2
14-Oct-16 02:30:00	18	3.8	519	29	84	100	7.0	4.00	4.0	16500		7881.5
14-Oct-16 02:45:00	18	3.9	523	29	86	100	7.0	4.00	4.0	16500		7882.7
14-Oct-16 03:00:00	BSW= 100%, pH=7, Gas SG=0.642, CO2=4%, H2S=4ppm											
14-Oct-16 03:00:00	Electrical Conductivity=47mS, Water Density=1015.7kg/m3 @22.3degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-152.6mV2. Salinity=17000 ppm											
14-Oct-16 03:00:00	18	3.8	521	29	84	100	7.0	4.00	4.0	17000		7884.0
14-Oct-16 03:15:00	18	3.9	304	28	66	100	7.0	4.00	4.0	17000		7885.4
14-Oct-16 03:30:00	18	3.9	612	31	99	100	7.0	4.00	4.0	17000		7886.8
14-Oct-16 03:45:00	18	3.9	570	30	96	100	7.0	4.00	4.0	17000		7888.1
14-Oct-16 04:00:00	18	3.9	529	28	88	100	7.0	4.00	4.0	17000		7889.5
14-Oct-16 04:15:00	18	3.8	495	28	82	100	7.0	4.00	4.0	17000		7890.4
14-Oct-16 04:30:00	18	3.9	563	29	93	100	7.0	4.00	4.0	17000		7891.4
14-Oct-16 04:45:00	18	3.9	515	29	90	100	7.0	4.00	4.0	17000		7892.3
14-Oct-16 05:00:00	Gas SG=0.645, CO2=4%, H2S=4ppm.											
14-Oct-16 05:00:00	Not enough water at choke sample point to collect BS&W.											
14-Oct-16 05:00:00	18	4.1	523	28	89	100	7.0	4.00	4.0	17000		7893.2
14-Oct-16 05:08:00	Dart crashed lost connection to Interact.											
14-Oct-16 05:11:00	Re-established Dart and Interact connection.											
14-Oct-16 05:15:00	18	6.0	521	28	87	100	7.0	4.00	4.0	17000		7894.1
14-Oct-16 05:30:00	18	6.9	525	28	87	100	7.0	4.00	4.0	17000		7895.0
14-Oct-16 05:45:00	18	7.1	516	27	87	100	7.0	4.00	4.0	17000		7896.0
14-Oct-16 06:00:00	CO2=3%, H2S=4ppm, BSW dry, no solids.											
14-Oct-16 06:00:00	18	7.0	518	27	87	100	7.0	4.00	4.0	17000		7896.9
14-Oct-16 06:15:00	18	6.9	516	27	87	100	7.0	4.00	4.0	17000		7897.9
14-Oct-16 06:30:00	18	6.9	516	27	87	100	7.0	4.00	4.0	17000		7898.8
14-Oct-16 06:45:00	18	6.8	519	29	88	100	7.0	4.00	4.0	17000		7899.8
14-Oct-16 07:00:00	Gas SG=0.644, BS&W dry no solids.											
14-Oct-16 07:00:00	18	4.0	520	30	87	100	7.0	4.00	4.0	17000		7900.8
14-Oct-16 07:15:00	18	3.8	520	29	86	100	7.0	4.00	4.0	17000		7902.1
14-Oct-16 07:30:00	18	3.6	522	30	87	100	7.0	4.00	4.0	17000		7903.3
14-Oct-16 07:44:00	Started Increaseing choke from 18/64" adjustable to maintain 300 psi on WHP in 2/64" incraments (as per WSR instruction).											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
14-Oct-16 07:45:00	18	0.8	521	30	88	100	7.0	4.00	4.0	17000		7904.6
14-Oct-16 07:53:00	Choke set at 26/64" adjustable to maintain 300 psi on WHP.											
14-Oct-16 08:00:00	BSW dry, no solids.											
14-Oct-16 08:00:00	26	0.6	293	31	84	100	7.0	4.00	4.0	17000		7905.9
14-Oct-16 08:15:00	26	3.5	324	33	99	100	7.0	4.00	4.0	17000		7908.1
14-Oct-16 08:30:00	26	3.6	332	34	102	100	7.0	4.00	4.0	17000		7910.3
14-Oct-16 08:45:00	26	3.6	325	34	101	100	7.0	4.00	4.0	17000		7912.6
14-Oct-16 09:00:00	Gas SG=0.644, BSW=100%, CO2=3.5%, H2S=4.5ppm.											
14-Oct-16 09:00:00	Electrical Conductivity=51.1mS, Water Density=1013.3kg/m3 @28.2degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-159.5mV2.											
14-Oct-16 09:00:00	26	3.6	318	35	101	100	7.0	3.50	4.5	17000		7914.8
14-Oct-16 09:15:00	26	3.6	316	35	101	100	7.0	3.50	4.5	17000		7916.4
14-Oct-16 09:30:00	26	0.4	314	36	99	100	7.0	3.50	4.5	17000		7918.0
14-Oct-16 09:45:00	26	0.8	303	36	98	100	7.0	3.50	4.5	17000		7919.7
14-Oct-16 10:00:00	BSW=100%, Gas SG 0.644.											
14-Oct-16 10:00:00	26	0.6	299	37	97	100	7.0	3.50	4.5	17000		7921.3
14-Oct-16 10:15:00	26	0.3	298	36	96	100	7.0	3.50	4.5	17000		7922.8
14-Oct-16 10:30:00	26	-0.2	302	37	96	100	7.0	3.50	4.5	17000		7924.3
14-Oct-16 10:45:00	26	0.6	296	37	95	100	7.0	3.50	4.5	17000		7925.7
14-Oct-16 11:00:00	Pumped out 65.8bbl from tank to pond.											
14-Oct-16 11:00:00	Electrical Conductivity=53.7mS, Water Density=1015.4kg/m3 @26.1degC, Dissolved Oxygen=1.7%, Oxidation Reduction Potential=-163.2mV2.											
14-Oct-16 11:00:00	BSW 100% no solids.											
14-Oct-16 11:00:00	26	0.4	292	38	95	100	7.0	3.50	4.5	17000		7927.2
14-Oct-16 11:15:00	26	0.2	294	39	95	100	7.0	3.50	4.5	17000		7928.8
14-Oct-16 11:30:00	26	0.6	293	39	94	100	7.0	3.50	4.5	17000		7930.3
14-Oct-16 11:45:00	26	0.5	289	39	94	100	7.0	3.50	4.5	17000		7931.8
14-Oct-16 12:00:00	Electrical Conductivity=54.6mS, Water Density=1015.7kg/m3 @26.5degC, Dissolved Oxygen=1.7%S, Oxidation Reduction Potential=-160.1mV2.											
14-Oct-16 12:00:00	BSW dry no solids, Gas SG=0.644, CO2=4%, H2S=5ppm											
14-Oct-16 12:00:00	26	0.5	292	39	94	100	7.0	4.00	5.0	17000		7933.3
14-Oct-16 12:15:00	26	0.2	288	39	93	100	7.0	4.00	5.0	17000		7935.0
14-Oct-16 12:30:00	MP on 26/64" adjustable choke.											
14-Oct-16 12:30:00	Lowered 1.75" orifice plate, checked for carry over, gas SG 0.644.											
14-Oct-16 12:30:00	26	0.8	286	40	93	100	7.0	4.00	5.0	17000		7936.6
14-Oct-16 12:45:00	26	0.6	286	39	92	100	7.0	4.00	5.0	17000	1.073	7938.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
14-Oct-16 13:00:00	BSW dry no solids.											
14-Oct-16 13:00:00	26	0.8	290	39	92	100	7.0	4.00	5.0	17000	1.077	7939.8
14-Oct-16 13:15:00	Raised 1.75" orifice plate.											
14-Oct-16 13:15:00	26	0.6	289	39	93	100	7.0	4.00	5.0	17000	1.068	7941.5
14-Oct-16 13:15:00	End of MP.											
14-Oct-16 13:30:00	26	0.7	284	40	92	100	7.0	4.00	5.0	17000		7943.2
14-Oct-16 13:45:00	26	0.7	282	39	92	100	7.0	4.00	5.0	17000		7945.0
14-Oct-16 14:00:00	Electrical Conductivity=53.7mS, Water Density=1015.6kg/m3 @27.2degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-172mV2.											
14-Oct-16 14:00:00	26	0.5	282	39	91	100	7.0	4.00	5.0	17000		7946.7
14-Oct-16 14:10:00	BSW=100% no solids.											
14-Oct-16 14:15:00	26	0.5	287	39	92	100	7.0	4.00	5.0	17000		7948.1
14-Oct-16 14:30:00	26	0.5	286	40	92	100	7.0	4.00	5.0	17000		7949.6
14-Oct-16 14:45:00	26	0.4	286	40	91	100	7.0	4.00	5.0	17000		7951.0
14-Oct-16 15:00:00	BSW=100% small trace of solids, H2S 4.5ppm, CO2 4%.											
14-Oct-16 15:00:00	26	0.6	287	40	90	100	7.0	4.00	4.5	17000		7952.4
14-Oct-16 15:15:00	26	-1.0	284	39	90	100	7.0	4.00	4.5	17000		7955.1
14-Oct-16 15:25:00	Lower Seperator Pressure to 36 psia.											
14-Oct-16 15:30:00	26	0.5	285	39	49	100	7.0	4.00	4.5	17000		7957.8
14-Oct-16 15:32:00	Started to increase choke in 2/64" increments to maintain approximentely 100 psi WHP (as per WSR instruction).											
14-Oct-16 15:36:00	Flare went out due to wind.											
14-Oct-16 15:40:00	Re-lit flare then continued increasing choke.											
14-Oct-16 15:45:00	26	0.4	206	39	47	100	7.0	4.00	4.5	17000		7960.5
14-Oct-16 16:00:00	26	1.0	152	39	49	100	7.0	4.00	4.5	17000		7963.2
14-Oct-16 16:15:00	26	0.6	118	39	50	100	7.0	4.00	4.5	17000		7964.2
14-Oct-16 16:20:00	Increased Choke to 52/64" adjustable, WHP 111.8 psia.											
14-Oct-16 16:30:00	Took IsoTube Sample #26 from Separator at 32.1 psi 38.4 degC.											
14-Oct-16 16:30:00	BSW=100% no solids, H2S 4ppm, CO2 2.5%.											
14-Oct-16 16:30:00	52	3.8	108	38	42	100	7.0	2.50	4.0	17000		7965.2
14-Oct-16 16:45:00	52	3.8	113	38	43	100	7.0	2.50	4.0	17000		7966.2
14-Oct-16 17:00:00	Pumped out 39.25 bbls of fluid from frac tank to pond.											
14-Oct-16 17:00:00	BSW=100% no solids.											
14-Oct-16 17:00:00	52	3.7	107	38	42	100	7.0	2.50	4.0	17000		7967.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
14-Oct-16 17:15:00	52	3.2	105	37	41	100	7.0	2.50	4.0	17000		7969.1
14-Oct-16 17:30:00	52	3.2	105	36	41	100	7.0	2.50	4.0	17000		7971.0
14-Oct-16 17:45:00	52	4.5	107	36	41	100	7.0	2.50	4.0	17000		7973.0
14-Oct-16 18:00:00	BSW=100% no solids, H2S 4ppm CO2 3%.											
14-Oct-16 18:00:00	52	4.7	104	36	41	100	7.0	3.00	4.0	17000		7974.9
14-Oct-16 18:15:00	52	6.7	102	36	41	100	7.0	3.00	4.0	17000		7976.7
14-Oct-16 18:30:00	52	6.8	107	35	43	100	7.0	3.00	4.0	17000		7978.6
14-Oct-16 18:45:00	52	9.6	106	35	41	100	7.0	3.00	4.0	17000		7980.4
14-Oct-16 18:47:00	Well started slugging.											
14-Oct-16 19:00:00	BSW=100% no solids, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
14-Oct-16 19:00:00	Electrical Conductivity=53.7mS, Water Density=1014.8kg/m3 @27.0degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-178.0mV2. Salinity=18000 ppm.											
14-Oct-16 19:00:00	52	9.8	97	35	40	100	7.0	3.00	4.0	18000		7982.3
14-Oct-16 19:15:00	52	9.9	102	35	43	100	7.0	3.00	4.0	18000		7984.3
14-Oct-16 19:30:00	52	12.6	104	34	43	100	7.0	3.00	4.0	18000		7986.4
14-Oct-16 19:45:00	52	12.7	91	34	39	100	7.0	3.00	4.0	18000		7988.5
14-Oct-16 20:00:00	BSW 100% no solids.											
14-Oct-16 20:00:00	52	12.6	107	34	44	100	7.0	3.00	4.0	18000		7990.5
14-Oct-16 20:15:00	52	12.7	103	34	43	100	7.0	3.00	4.0	18000		7992.3
14-Oct-16 20:30:00	52	12.7	104	34	42	100	7.0	3.00	4.0	18000		7994.0
14-Oct-16 20:45:00	52	15.7	111	34	46	100	7.0	3.00	4.0	18000		7995.7
14-Oct-16 21:00:00	BSW 100% no solids, pH=7, Gas SG=0.655, CO2=3.75%, H2S=4ppm.											
14-Oct-16 21:00:00	Electrical Conductivity=52.3mS, Water Density=1014.3kg/m3 @27.8degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-175.3mV2. Salinity=18000 ppm.											
14-Oct-16 21:00:00	52	15.7	107	34	44	100	7.0	3.75	4.0	18000		7997.4
14-Oct-16 21:15:00	52	13.4	104	33	43	100	7.0	3.75	4.0	18000		7999.0
14-Oct-16 21:30:00	52	14.5	103	33	43	100	7.0	3.75	4.0	18000		8000.6
14-Oct-16 21:45:00	52	15.4	106	33	42	100	7.0	3.75	4.0	18000		8002.3
14-Oct-16 22:00:00	BSW 100% no solids.											
14-Oct-16 22:00:00	52	15.7	100	33	41	100	7.0	3.75	4.0	18000		8003.9
14-Oct-16 22:15:00	52	14.6	100	33	41	100	7.0	3.75	4.0	18000		8005.8
14-Oct-16 22:30:00	52	15.7	95	33	41	100	7.0	3.75	4.0	18000		8007.8
14-Oct-16 22:45:00	52	12.6	101	33	41	100	7.0	3.75	4.0	18000		8009.7
14-Oct-16 23:00:00	BSW 100% no solids, pH=7, Gas SG=0.65.											
14-Oct-16 23:00:00	Electrical Conductivity=50.8mS, Water Density=1014.7kg/m3 @26.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-157.8mV2. Salinity=28000 ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
14-Oct-16 23:00:00	52	12.6	106	32	42	100	7.0	3.75	4.0	28000		8011.7
14-Oct-16 23:15:00	52	12.5	100	32	41	100	7.0	3.75	4.0	28000		8013.4
14-Oct-16 23:30:00	52	12.5	99	33	41	100	7.0	3.75	4.0	28000		8015.1
14-Oct-16 23:45:00	52	12.6	100	33	41	100	7.0	3.75	4.0	28000		8016.9
15-Oct-16 00:00:00	BSW 100% no solids, 4ppm H2S 3.5% CO2 4%.											
15-Oct-16 00:00:00	52	12.6	96	32	40	100	7.0	4.00	3.5	28000		8018.6
15-Oct-16 00:15:00	52	12.6	103	32	41	100	7.0	4.00	3.5	28000		8020.2
15-Oct-16 00:30:00	52	12.4	98	33	41	100	7.0	4.00	3.5	28000		8021.8
15-Oct-16 00:45:00	52	12.6	99	33	41	100	7.0	4.00	3.5	28000		8023.4
15-Oct-16 01:00:00	Electrical Conductivity=50.4mS, Water Density=1014.8kg/m3 @27degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-155.2mV2. Salinity=30000 ppm.											
15-Oct-16 01:00:00	BSW 100% no solids, pH=7, Gas SG=0.65.											
15-Oct-16 01:00:00	52	12.5	114	33	44	100	7.0	4.00	3.5	30000		8025.0
15-Oct-16 01:15:00	52	12.7	98	33	41	100	7.0	4.00	3.5	30000		8026.8
15-Oct-16 01:30:00	52	12.7	95	33	40	100	7.0	4.00	3.5	30000		8028.5
15-Oct-16 01:45:00	52	15.7	89	33	38	100	7.0	4.00	3.5	30000		8030.2
15-Oct-16 02:00:00	BSW 100% no solids.											
15-Oct-16 02:00:00	52	12.7	97	33	41	100	7.0	4.00	3.5	30000		8031.9
15-Oct-16 02:15:00	52	14.9	107	33	44	100	7.0	4.00	3.5	30000		8033.7
15-Oct-16 02:30:00	52	12.7	104	33	43	100	7.0	4.00	3.5	30000		8035.4
15-Oct-16 02:45:00	52	12.8	96	33	41	100	7.0	4.00	3.5	30000		8037.1
15-Oct-16 03:00:00	BSW 100% no solids, pH=7, Gas SG=0.65, CO2=4%, H2S=5ppm.											
15-Oct-16 03:00:00	Electrical Conductivity=49.3mS, Water Density=1015.3kg/m3 @23.6degC, Dissolved Oxygen=0.5%S, Oxidation Reduction Potential=-162.7mV2. Salinity=30000 ppm.											
15-Oct-16 03:00:00	52	15.7	97	32	42	100	7.0	4.00	5.0	30000		8038.8
15-Oct-16 03:15:00	52	13.8	99	32	42	100	7.0	4.00	5.0	30000		8040.9
15-Oct-16 03:30:00	52	16.0	106	32	44	100	7.0	4.00	5.0	30000		8043.0
15-Oct-16 03:45:00	52	15.7	103	31	44	100	7.0	4.00	5.0	30000		8045.0
15-Oct-16 04:00:00	BSW 100% no solids.											
15-Oct-16 04:00:00	52	15.9	101	32	42	100	7.0	4.00	5.0	30000		8047.1
15-Oct-16 04:15:00	52	15.9	98	32	42	100	7.0	4.00	5.0	30000		8048.4
15-Oct-16 04:30:00	52	15.7	99	32	42	100	7.0	4.00	5.0	30000		8049.6
15-Oct-16 04:43:00	Lowered 2.000" Orifice Plate.											
15-Oct-16 04:44:00	MP on 52/64" adjustable choke.											
15-Oct-16 04:45:00	52	15.7	98	32	44	100	7.0	4.00	5.0	30000	1.082	8050.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
15-Oct-16 04:48:01	BSW 100% clean, pH=7, Gas SG=0.65, CO2=4%, H2S=5ppm.											
15-Oct-16 05:00:00	52	15.7	95	32	42	100	7.0	4.00	5.0	30000	1.066	8052.2
15-Oct-16 05:15:00	52	15.5	97	32	44	100	7.0	4.00	5.0	30000	1.088	8053.6
15-Oct-16 05:20:00	Lifted 2.000" Orifice Plate.											
15-Oct-16 05:20:00	End of MP.											
15-Oct-16 05:30:00	52	12.6	97	32	42	100	7.0	4.00	5.0	30000		8055.0
15-Oct-16 05:42:00	Decreased choke in 2/64" increments until 300 psi on WHP.											
15-Oct-16 05:45:00	52	12.6	133	32	39	100	7.0	4.00	5.0	30000		8056.5
15-Oct-16 06:00:00	Choked down to 24/64" adjustable.											
15-Oct-16 06:00:00	BSW 100% no solids, H2S 4ppm, CO2 3%.											
15-Oct-16 06:00:00	24	12.5	302	32	105	100	7.0	4.00	5.0	30000		8057.9
15-Oct-16 06:15:00	24	9.7	296	31	103	100	7.0	4.00	5.0	30000		8059.1
15-Oct-16 06:30:00	24	9.6	299	31	100	100	7.0	4.00	5.0	30000		8060.3
15-Oct-16 06:45:00	24	9.5	297	31	99	100	7.0	4.00	5.0	30000		8061.5
15-Oct-16 07:00:00	BSW dry, no solids.											
15-Oct-16 07:00:00	24	6.5	301	33	100	100	7.0	4.00	5.0	30000		8062.8
15-Oct-16 07:15:00	24	6.5	302	33	99	100	7.0	4.00	5.0	30000		8063.8
15-Oct-16 07:30:00	24	5.8	302	34	99	100	7.0	4.00	5.0	30000		8064.8
15-Oct-16 07:45:00	24	3.8	305	34	101	100	7.0	4.00	5.0	30000		8065.9
15-Oct-16 08:00:00	BSW dry, no solids.											
15-Oct-16 08:00:00	24	3.6	310	35	101	100	7.0	4.00	5.0	30000		8066.9
15-Oct-16 08:15:00	24	3.6	310	36	101	100	7.0	4.00	5.0	30000		8068.3
15-Oct-16 08:30:00	24	3.6	307	36	99	100	7.0	4.00	5.0	30000		8069.7
15-Oct-16 08:45:00	24	0.9	310	36	101	100	7.0	4.00	5.0	30000		8071.0
15-Oct-16 09:00:00	BSW 100% no solids, Gas SG 0.644, H2S 4ppm, CO2 2.5%.											
15-Oct-16 09:00:00	24	0.6	306	36	101	100	7.0	2.50	4.0	32000		8072.4
15-Oct-16 09:02:00	WHP started to drop, well slugging.											
15-Oct-16 09:11:00	Water on surface, collected sample of slug.											
15-Oct-16 09:13:00	Gas on surface, slug passing.											
15-Oct-16 09:13:00	Slug sample BSW 100% pH 7 Electrical Conductivity=57.5mS, Water Density=1015.5kg/m3 @ 23.1degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-171.4											
15-Oct-16 09:15:00	24	3.7	355	37	96	100	7.0	2.50	4.0	32000		8073.9
15-Oct-16 09:30:00	24	0.6	392	38	104	100	7.0	2.50	4.0	32000		8075.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
15-Oct-16 09:45:00	WHP unstable, well slugging.											
15-Oct-16 09:45:00	24	0.5	320	38	92	100	7.0	2.50	4.0	32000		8076.9
15-Oct-16 10:00:00	BSW dry, no solids.											
15-Oct-16 10:00:00	24	0.5	342	39	92	100	7.0	2.50	4.0	32000		8078.4
15-Oct-16 10:15:00	24	0.4	331	39	89	100	7.0	2.50	4.0	32000		8079.5
15-Oct-16 10:30:00	24	0.7	329	39	89	100	7.0	2.50	4.0	32000		8080.7
15-Oct-16 10:45:00	24	-1.3	327	40	89	100	7.0	2.50	4.0	32000		8081.8
15-Oct-16 11:00:00	BSW dry, no solids, Gas SG 0.643.											
15-Oct-16 11:00:00	24	-1.9	335	40	89	100	7.0	2.50	4.0	32000		8083.0
15-Oct-16 11:15:00	24	-2.3	330	40	89	100	7.0	2.50	4.0	32000		8084.3
15-Oct-16 11:30:00	24	-2.3	330	40	87	100	7.0	2.50	4.0	32000		8085.6
15-Oct-16 11:45:00	Switched to 24/64 fixed choke.											
15-Oct-16 11:45:00	24	-2.3	331	40	89	100	7.0	2.50	4.0	32000		8087.0
15-Oct-16 11:55:00	Removed adjustable choke for inspection, found choke tip was eroded, swapped out adjustable choke.											
15-Oct-16 12:00:00	BSW dry, no solids.											
15-Oct-16 12:00:00	24	-2.3	423	40	83	100	7.0	2.50	4.0	32000		8088.3
15-Oct-16 12:06:00	Well head pressure dropping, well slugging.											
15-Oct-16 12:10:00	Wind picked up, increased propane to gas pilot to assist with keeping flare lit.											
15-Oct-16 12:15:00	24	-2.3	411	40	86	100	7.0	2.50	4.0	32000		8089.1
15-Oct-16 12:30:00	24	-2.3	403	41	81	100	7.0	2.50	4.0	32000		8090.0
15-Oct-16 12:45:00	24	-2.3	416	40	83	100	7.0	2.50	4.0	32000		8090.9
15-Oct-16 13:00:00	BSW 100% no solids, Gas SG 0.643, H2S 4.5ppm CO2 4%.											
15-Oct-16 13:00:00	Pumped 53.9 bbls from tank to pond.											
15-Oct-16 13:00:00	pH 7 Electrical Conductivity= 55.7mS@26.4degC, Water Density=1015.2kg/m3 @ 23.8degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-168.4mV2, Salinity 33000ppm.											
15-Oct-16 13:00:00	24	-2.3	383	40	78	100	7.0	4.00	4.5	33000		8091.7
15-Oct-16 13:15:00	24	-2.3	467	40	89	100	7.0	4.00	4.5	33000		8093.4
15-Oct-16 13:30:00	24	-2.7	464	40	93	100	7.0	4.00	4.5	33000		8095.0
15-Oct-16 13:45:00	24	-4.4	388	40	87	100	7.0	4.00	4.5	33000		8096.6
15-Oct-16 14:00:00	BSW dry, no solids.											
15-Oct-16 14:00:00	24	-2.4	439	41	84	100	7.0	4.00	4.5	33000		8098.2
15-Oct-16 14:15:00	24	-5.1	414	40	84	100	7.0	4.00	4.5	33000		8099.2
15-Oct-16 14:30:00	24	-5.2	425	40	83	100	7.0	4.00	4.5	33000		8100.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
15-Oct-16 14:45:00	24	-5.3	420	40	84	100	7.0	4.00	4.5	33000		8101.0
15-Oct-16 15:00:00	BSW dry, no solids.											
15-Oct-16 15:00:00	Switched to 24/64" adjustable choke.											
15-Oct-16 15:00:00	24	-5.6	390	40	95	100	7.0	4.00	4.5	33000		8101.9
15-Oct-16 15:03:00	Increased to 28/64" adjustable choke. Installed 28/64" choke bean.											
15-Oct-16 15:04:00	Switched to 28/64" fixed choke.											
15-Oct-16 15:05:00	BSW dry no solids.											
15-Oct-16 15:14:00	Dart crashed lost connection to Interact.											
15-Oct-16 15:15:00	28	-5.4	352	39	70	100	7.0	4.00	4.5	33000		8103.5
15-Oct-16 15:17:00	Re-established Dart and Interact connection.											
15-Oct-16 15:22:00	WHP unstable, well slugging.											
15-Oct-16 15:30:00	28	-5.7	320	40	73	100	7.0	4.00	4.5	33000		8105.1
15-Oct-16 15:45:00	28	-5.7	382	40	84	100	7.0	4.00	4.5	33000		8106.8
15-Oct-16 16:00:00	Took Isotube sample #27 from Separator at 71psia, gas SG 0.643, 39.1 degC.											
15-Oct-16 16:00:00	BSW = Dry no Solids CO2 4% H2S 4ppm.											
15-Oct-16 16:00:00	28	-5.5	345	39	77	100	7.0	4.00	4.0	33000		8108.4
15-Oct-16 16:15:00	28	-5.3	353	39	80	100	7.0	4.00	4.0	33000		8109.6
15-Oct-16 16:30:00	28	-2.5	353	39	78	100	7.0	4.00	4.0	33000		8110.9
15-Oct-16 16:45:00	28	-5.3	348	39	80	100	7.0	4.00	4.0	33000		8112.2
15-Oct-16 16:56:00	WHP dropping, well slugging.											
15-Oct-16 17:00:00	Water at surface, captured sample.											
15-Oct-16 17:00:00	28	-2.5	251	39	59	100	7.0	4.00	4.0	33000		8113.4
15-Oct-16 17:02:00	BSW 100% with trace of solids.											
15-Oct-16 17:02:00	Slug Results =PH7 Electrical Conductivity= 52.4mS@29.6degC, Water Density=1014.2kg/m3 @ 28.8degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-176.2mV2, Salinity 33000ppm.											
15-Oct-16 17:15:00	28	-2.5	424	38	95	100	7.0	4.00	4.0	33000		8114.9
15-Oct-16 17:30:00	28	-2.1	324	37	83	100	7.0	4.00	4.0	33000		8116.4
15-Oct-16 17:45:00	28	-2.1	357	36	80	100	7.0	4.00	4.0	33000		8117.9
15-Oct-16 18:00:00	BSW dry no solids CO2 4% H2S 4ppm.											
15-Oct-16 18:00:00	28	-2.3	336	36	78	100	7.0	4.00	4.0	33000		8119.4
15-Oct-16 18:15:00	28	-1.9	345	36	80	100	7.0	4.00	4.0	33000		8120.8
15-Oct-16 18:30:00	28	0.6	341	35	78	100	7.0	4.00	4.0	33000		8122.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
15-Oct-16 18:45:00	28	1.2	346	35	78	100	7.0	4.00	4.0	33000		8123.5
15-Oct-16 19:00:00	BSW dry no solids Gas SG=0.65.											
15-Oct-16 19:00:00	28	1.0	333	34	78	100	7.0	4.00	4.0	33000		8124.9
15-Oct-16 19:15:00	28	1.0	338	34	78	100	7.0	4.00	4.0	33000		8126.2
15-Oct-16 19:30:00	28	3.9	331	33	84	100	7.0	4.00	4.0	33000		8127.4
15-Oct-16 19:45:00	28	3.9	343	33	86	100	7.0	4.00	4.0	33000		8128.7
15-Oct-16 20:00:00	BSW dry no solids.											
15-Oct-16 20:00:00	28	3.9	335	33	84	100	7.0	4.00	4.0	33000		8130.0
15-Oct-16 20:15:00	28	3.9	340	33	84	100	7.0	4.00	4.0	33000		8131.4
15-Oct-16 20:30:00	28	3.9	336	32	86	100	7.0	4.00	4.0	33000		8132.7
15-Oct-16 20:45:00	28	3.9	340	32	84	100	7.0	4.00	4.0	33000		8134.1
15-Oct-16 21:00:00	BSW dry no solids Gas SG=0.65 CO2 4% H2S 4ppm.											
15-Oct-16 21:00:00	28	4.1	336	32	84	100	7.0	4.00	4.0	33000		8135.5
15-Oct-16 21:15:00	28	3.9	332	32	86	100	7.0	4.00	4.0	33000		8136.9
15-Oct-16 21:30:00	28	3.9	339	33	83	100	7.0	4.00	4.0	33000		8138.3
15-Oct-16 21:45:00	28	3.9	340	33	84	100	7.0	4.00	4.0	33000		8139.6
15-Oct-16 22:00:00	BSW dry no solids.											
15-Oct-16 22:00:00	28	3.9	338	33	84	100	7.0	4.00	4.0	33000		8141.0
15-Oct-16 22:15:00	28	3.9	329	33	86	100	7.0	4.00	4.0	33000		8142.3
15-Oct-16 22:21:00	WHP dropped, well started slugging.											
15-Oct-16 22:30:00	28	6.9	372	33	96	100	7.0	4.00	4.0	33000		8143.6
15-Oct-16 22:45:00	28	3.8	381	34	103	100	7.0	4.00	4.0	33000		8144.8
15-Oct-16 23:00:00	BSW dry no solids Gas S.G.=0.646.											
15-Oct-16 23:00:00	28	3.9	333	33	87	100	7.0	4.00	4.0	33000		8146.1
15-Oct-16 23:15:00	28	3.9	345	33	92	100	7.0	4.00	4.0	33000		8147.6
15-Oct-16 23:30:00	28	3.8	337	33	89	100	7.0	4.00	4.0	33000		8149.1
15-Oct-16 23:45:00	28	4.1	337	32	90	100	7.0	4.00	4.0	33000		8150.6
16-Oct-16 00:00:00	CO2 3% H2S 4ppm.											
16-Oct-16 00:00:00	28	3.9	326	32	90	100	7.0	3.00	4.0	33000		8152.1
16-Oct-16 00:15:00	28	4.1	331	32	90	100	7.0	3.00	4.0	33000		8153.2
16-Oct-16 00:30:00	28	6.5	329	32	88	100	7.0	3.00	4.0	33000		8154.4
16-Oct-16 00:45:00	28	5.2	337	32	87	100	7.0	3.00	4.0	33000		8155.5
16-Oct-16 01:00:00	BSW dry no solids Gas SG=0.65 CO2 3% H2S 4ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
16-Oct-16 01:00:00	Pumped 60.25 bbls to pond.											
16-Oct-16 01:00:00	28	7.1	339	32	90	100	7.0	3.00	4.0	33000		8156.7
16-Oct-16 01:15:00	28	6.9	331	32	89	100	7.0	3.00	4.0	33000		8157.9
16-Oct-16 01:30:00	28	6.9	339	31	88	100	7.0	3.00	4.0	33000		8159.2
16-Oct-16 01:45:00	28	6.9	332	31	90	100	7.0	3.00	4.0	33000		8160.5
16-Oct-16 02:00:00	BSW dry, no solids.											
16-Oct-16 02:00:00	28	6.9	335	31	90	100	7.0	3.00	4.0	33000		8161.7
16-Oct-16 02:15:00	28	6.9	336	31	87	100	7.0	3.00	4.0	33000		8163.0
16-Oct-16 02:30:00	28	6.9	335	31	90	100	7.0	3.00	4.0	33000		8164.3
16-Oct-16 02:45:00	28	6.9	330	31	88	100	7.0	3.00	4.0	33000		8165.5
16-Oct-16 03:00:00	BSW dry no solids Gas SG=0.648 CO2 3% H2S 4ppm.											
16-Oct-16 03:00:00	28	6.7	340	31	90	100	7.0	3.00	4.0	33000		8166.8
16-Oct-16 03:15:00	28	6.9	332	31	90	100	7.0	3.00	4.0	33000		8168.0
16-Oct-16 03:30:00	28	6.9	338	31	90	100	7.0	3.00	4.0	33000		8169.3
16-Oct-16 03:45:00	28	6.9	337	31	88	100	7.0	3.00	4.0	33000		8170.6
16-Oct-16 04:00:00	Electrical Conductivity=47.7mS, Water Density=1019.1kg/m3 @17.4degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-179.5mV2. Salinity=33000 ppm.											
16-Oct-16 04:00:00	BSW=100% with traces of solids.											
16-Oct-16 04:00:00	28	6.9	338	31	90	100	7.0	3.00	4.0	33000		8171.8
16-Oct-16 04:15:00	28	6.7	334	31	88	100	7.0	3.00	4.0	33000		8173.2
16-Oct-16 04:30:00	28	6.9	337	31	90	100	7.0	3.00	4.0	33000		8174.6
16-Oct-16 04:45:00	28	6.7	334	31	90	100	7.0	3.00	4.0	33000		8176.0
16-Oct-16 05:00:00	BSW dry no solids Gas SG=0.65.											
16-Oct-16 05:00:00	28	7.1	335	31	90	100	7.0	3.00	4.0	33000		8177.4
16-Oct-16 05:15:00	28	6.9	340	31	88	100	7.0	3.00	4.0	33000		8178.7
16-Oct-16 05:30:00	28	6.9	337	31	90	100	7.0	3.00	4.0	33000		8180.1
16-Oct-16 05:45:00	28	6.7	280	31	79	100	7.0	3.00	4.0	33000		8181.5
16-Oct-16 06:00:00	28	6.7	423	32	108	100	7.0	3.00	4.0	33000		8182.9
16-Oct-16 06:15:00	28	6.7	343	33	102	100	7.0	3.00	4.0	33000		8184.3
16-Oct-16 06:30:00	28	4.5	343	31	93	100	7.0	3.00	4.0	33000		8185.6
16-Oct-16 06:45:00	28	3.9	339	31	94	100	7.0	3.00	4.0	33000		8187.0
16-Oct-16 07:00:00	BSW dry, no solids.											
16-Oct-16 07:00:00	28	3.9	333	31	92	100	7.0	3.00	4.0	33000		8188.4
16-Oct-16 07:15:00	28	3.7	340	32	91	100	7.0	3.00	4.0	33000		8189.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
16-Oct-16 07:30:00	28	3.8	333	32	91	100	7.0	3.00	4.0	33000		8190.7
16-Oct-16 07:45:00	28	3.7	333	33	92	100	7.0	3.00	4.0	33000		8191.9
16-Oct-16 08:00:00	BSW dry, no solids, Gas SG 0.65.											
16-Oct-16 08:00:00	28	0.5	337	34	91	100	7.0	3.00	4.0	33000		8193.0
16-Oct-16 08:15:00	28	0.6	336	34	90	100	7.0	3.00	4.0	33000		8194.4
16-Oct-16 08:30:00	28	0.6	340	34	90	100	7.0	3.00	4.0	33000		8195.8
16-Oct-16 08:45:00	28	0.7	342	35	90	100	7.0	3.00	4.0	33000		8197.1
16-Oct-16 09:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5%.											
16-Oct-16 09:00:00	28	0.6	343	35	90	100	7.0	3.50	5.0	33000		8198.5
16-Oct-16 09:15:00	28	0.6	335	36	92	100	7.0	3.50	5.0	33000		8199.8
16-Oct-16 09:30:00	28	0.6	339	36	92	100	7.0	3.50	5.0	33000		8201.1
16-Oct-16 09:45:00	28	0.8	342	37	90	100	7.0	3.50	5.0	33000		8202.3
16-Oct-16 10:00:00	BSW dry, no solids, Gas SG 0.648.											
16-Oct-16 10:00:00	28	0.8	343	37	90	100	7.0	3.50	5.0	33000		8203.6
16-Oct-16 10:15:00	28	-0.7	341	37	92	100	7.0	3.50	5.0	33000		8204.8
16-Oct-16 10:30:00	28	-2.5	340	38	90	100	7.0	3.50	5.0	33000		8206.1
16-Oct-16 10:45:00	28	-2.2	343	39	90	100	7.0	3.50	5.0	33000		8207.4
16-Oct-16 11:00:00	BSW dry, no solids, gas SG 0.65.											
16-Oct-16 11:00:00	28	-2.5	343	38	92	100	7.0	3.50	5.0	33000		8208.6
16-Oct-16 11:15:00	Lowered 1.500" Orifice Plate											
16-Oct-16 11:15:00	28	-2.4	340	38	93	100	7.0	3.50	5.0	33000		8210.0
16-Oct-16 11:28:30	DART crashed, re-boot system											
16-Oct-16 11:29:56	System back online, reconnected interact											
16-Oct-16 11:30:00	28	-2.5	340	38	93	100	7.0	3.50	5.0	33000		8211.4
16-Oct-16 11:35:00	Lifted 1.500" Orifice plate, separator too unstable for metering.											
16-Oct-16 11:36:00	Adjusted proportional band on separator to 15%, monitor to se if stabalizes separator											
16-Oct-16 11:45:00	28	-2.5	341	39	99	100	7.0	3.50	5.0	33000		8212.8
16-Oct-16 12:00:00	Pumped 61.6 bbl from tank to pond.											
16-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.											
16-Oct-16 12:00:00	28	-2.0	343	39	99	100	7.0	4.00	5.0	33000		8214.2
16-Oct-16 12:15:00	28	-2.5	342	39	101	100	7.0	4.00	5.0	33000		8215.4
16-Oct-16 12:30:00	28	-2.6	344	38	99	100	7.0	4.00	5.0	33000		8216.7
16-Oct-16 12:45:00	28	-1.7	343	39	101	100	7.0	4.00	5.0	33000		8218.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
16-Oct-16 13:00:00	BSW dry, no solids, Gas SG 0.65.											
16-Oct-16 13:00:00	28	-2.3	344	40	68	100	7.0	4.00	5.0	33000		8219.2
16-Oct-16 13:15:00	28	-2.5	335	39	87	100	7.0	4.00	5.0	33000		8220.5
16-Oct-16 13:30:00	28	-2.2	344	40	86	100	7.0	4.00	5.0	33000		8221.8
16-Oct-16 13:45:00	28	-2.7	345	41	86	100	7.0	4.00	5.0	33000		8223.0
16-Oct-16 14:00:00	BSW dry, no solids.											
16-Oct-16 14:00:00	28	-2.1	342	39	86	100	7.0	4.00	5.0	33000		8224.3
16-Oct-16 14:15:00	28	-5.3	349	40	86	100	7.0	4.00	5.0	33000		8225.5
16-Oct-16 14:30:00	28	-2.3	340	39	77	100	7.0	4.00	5.0	33000		8226.8
16-Oct-16 14:45:00	28	-2.3	342	39	77	100	7.0	4.00	5.0	33000		8228.1
16-Oct-16 15:00:00	BSW dry, no solids, Gas SG = 0.65.											
16-Oct-16 15:00:00	28	-3.2	336	40	77	100	7.0	4.00	5.0	33000		8229.3
16-Oct-16 15:15:00	28	-2.0	347	38	77	100	7.0	4.00	5.0	33000		8230.8
16-Oct-16 15:30:00	28	-2.1	340	39	77	100	7.0	4.00	5.0	33000		8232.3
16-Oct-16 15:45:00	28	-2.7	343	39	77	100	7.0	4.00	5.0	33000		8233.8
16-Oct-16 16:00:00	Isotube sample #28 taken from Separator at Gas SG 0.650 Temp 37.9 degC Press 69.5 psia.											
16-Oct-16 16:00:00	BSW dry, no solids., H2S 5ppm, CO2 4%, Gas SG= 0.648.											
16-Oct-16 16:00:00	28	-2.1	340	38	78	100	7.0	4.00	5.0	33000		8235.3
16-Oct-16 16:10:00	Lowered 1.750" orifice plate.											
16-Oct-16 16:15:00	28	-2.1	338	37	79	100	7.0	4.00	5.0	33000		8236.6
16-Oct-16 16:23:00	DART crashed when starting metering period.											
16-Oct-16 16:25:00	MP on 28/64" Fixed Choke.											
16-Oct-16 16:25:00	DART back online, reconnected interact.											
16-Oct-16 16:30:00	28	-2.1	340	38	78	100	7.0	4.00	5.0	33000		8237.8
16-Oct-16 16:45:00	28	-2.0	338	37	80	100	7.0	4.00	5.0	33000	0.926	8239.1
16-Oct-16 17:00:00	BSW dry, no solids.											
16-Oct-16 17:00:00	28	-2.1	340	37	79	100	7.0	4.00	5.0	33000	0.920	8240.4
16-Oct-16 17:15:00	28	-2.0	346	37	80	100	7.0	4.00	5.0	33000	0.919	8241.7
16-Oct-16 17:30:00	28	-2.3	339	37	80	100	7.0	4.00	5.0	33000	0.922	8243.0
16-Oct-16 17:45:00	28	-1.8	341	36	80	100	7.0	4.00	5.0	33000	0.913	8244.3
16-Oct-16 18:00:00	BSW dry, no solids, H2S 5ppm, CO2 4% Gas SG=0.65.											
16-Oct-16 18:00:00	28	-1.8	343	36	80	100	7.0	4.00	5.0	33000	0.922	8245.7
16-Oct-16 18:15:00	28	-2.0	341	36	80	100	7.0	4.00	5.0	33000	0.926	8247.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
16-Oct-16 18:30:00	28	-2.1	342	36	80	100	7.0	4.00	5.0	33000	0.929	8248.3
16-Oct-16 18:45:00	28	1.0	341	35	80	100	7.0	4.00	5.0	33000	0.924	8249.6
16-Oct-16 19:00:00	BSW dry, no solids, Gas SG=0.65.											
16-Oct-16 19:00:00	28	1.0	341	35	80	100	7.0	4.00	5.0	33000	0.933	8251.0
16-Oct-16 19:15:00	28	0.7	335	34	87	100	7.0	4.00	5.0	33000	0.943	8252.2
16-Oct-16 19:30:00	28	0.8	345	34	89	100	7.0	4.00	5.0	33000	0.959	8253.5
16-Oct-16 19:45:00	28	1.0	335	34	87	100	7.0	4.00	5.0	33000	0.966	8254.8
16-Oct-16 20:00:00	BSW dry, no solids.											
16-Oct-16 20:00:00	28	1.2	341	34	89	100	7.0	4.00	5.0	33000	0.958	8256.0
16-Oct-16 20:15:00	28	3.9	338	34	87	100	7.0	4.00	5.0	33000	0.968	8257.4
16-Oct-16 20:30:00	28	3.9	341	33	87	100	7.0	4.00	5.0	33000	0.964	8258.8
16-Oct-16 20:45:00	28	3.9	340	33	88	100	7.0	4.00	5.0	33000	0.966	8260.2
16-Oct-16 21:00:00	BSW dry, no solids, H2S 4.5ppm, CO2 4% Gas SG=0.644.											
16-Oct-16 21:00:00	28	4.1	344	33	88	100	7.0	4.00	4.5	33000	0.963	8261.5
16-Oct-16 21:15:00	28	3.8	337	33	88	100	7.0	4.00	4.5	33000	0.978	8262.8
16-Oct-16 21:30:00	28	3.9	337	33	89	100	7.0	4.00	4.5	33000	0.975	8264.1
16-Oct-16 21:45:00	28	3.9	340	33	88	100	7.0	4.00	4.5	33000	0.972	8265.3
16-Oct-16 22:00:00	BSW dry, no solids.											
16-Oct-16 22:00:00	28	3.8	338	33	88	100	7.0	4.00	4.5	33000	0.978	8266.6
16-Oct-16 22:15:00	28	3.9	343	33	89	100	7.0	4.00	4.5	33000	0.974	8268.0
16-Oct-16 22:30:00	28	3.9	340	33	88	100	7.0	4.00	4.5	33000	0.981	8269.4
16-Oct-16 22:45:00	28	3.9	343	33	88	100	7.0	4.00	4.5	33000	0.980	8270.7
16-Oct-16 23:00:00	BSW dry, no solids, Gas SG=0.65.											
16-Oct-16 23:00:00	28	4.1	341	33	87	100	7.0	4.00	4.5	33000	0.979	8272.1
16-Oct-16 23:15:00	28	3.8	340	33	89	100	7.0	4.00	4.5	33000	0.972	8273.4
16-Oct-16 23:30:00	28	3.9	345	33	87	100	7.0	4.00	4.5	33000	0.967	8274.7
16-Oct-16 23:45:00	28	3.9	303	33	81	100	7.0	4.00	4.5	33000	0.962	8275.9
16-Oct-16 23:46:00	WHP dropping, well starting to slug											
16-Oct-16 23:48:00	Lifted 1.750" Orifice Plate due to slugging.											
16-Oct-16 23:48:00	End of MP.											
17-Oct-16 00:00:00	Pumped 56.58 bbls from tank to the pond.											
17-Oct-16 00:00:00	Sample from slug: Electrical Conductivity=53.0mS, Water Density=1013.6kg/m3 @28.4degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-127.5mV2. Salinity=37000 ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
17-Oct-16 00:00:00	Took gas sample H2S 5ppm, CO2 3%.											
17-Oct-16 00:00:00	28	3.8	394	34	107	100	7.0	3.00	5.0	37000		8277.2
17-Oct-16 00:15:00	28	3.8	323	34	100	100	7.0	3.00	5.0	37000		8278.5
17-Oct-16 00:30:00	28	3.9	348	33	98	100	7.0	3.00	5.0	37000		8279.9
17-Oct-16 00:45:00	28	3.9	334	33	96	100	7.0	3.00	5.0	37000		8281.2
17-Oct-16 01:00:00	BSW dry, no solids, Gas SG=0.646.											
17-Oct-16 01:00:00	28	3.8	340	33	99	100	7.0	3.00	5.0	37000		8282.6
17-Oct-16 01:15:00	28	3.9	335	32	96	100	7.0	3.00	5.0	37000		8283.8
17-Oct-16 01:30:00	28	3.9	337	32	98	100	7.0	3.00	5.0	37000		8285.1
17-Oct-16 01:45:00	28	3.8	339	32	97	100	7.0	3.00	5.0	37000		8286.4
17-Oct-16 02:00:00	BSW dry, no solids.											
17-Oct-16 02:00:00	28	3.8	333	32	96	100	7.0	3.00	5.0	37000		8287.6
17-Oct-16 02:15:00	28	3.7	343	32	97	100	7.0	3.00	5.0	37000		8288.9
17-Oct-16 02:30:00	28	3.9	338	32	98	100	7.0	3.00	5.0	37000		8290.2
17-Oct-16 02:45:00	28	3.9	335	32	97	100	7.0	3.00	5.0	37000		8291.4
17-Oct-16 03:00:00	BSW dry, no solids, Gas SG=0.65 H2S 4ppm, CO2 4%.											
17-Oct-16 03:00:00	28	3.8	339	32	96	100	7.0	4.00	4.0	37000		8292.7
17-Oct-16 03:15:00	28	3.9	339	32	98	100	7.0	4.00	4.0	37000		8294.0
17-Oct-16 03:30:00	28	3.8	335	32	97	100	7.0	4.00	4.0	37000		8295.2
17-Oct-16 03:45:00	28	3.8	338	31	97	100	7.0	4.00	4.0	37000		8296.5
17-Oct-16 04:00:00	BSW dry, no solids.											
17-Oct-16 04:00:00	28	3.9	336	31	98	100	7.0	4.00	4.0	37000		8297.8
17-Oct-16 04:15:00	28	4.1	338	31	97	100	7.0	4.00	4.0	37000		8298.9
17-Oct-16 04:30:00	28	4.1	342	31	96	100	7.0	4.00	4.0	37000		8300.1
17-Oct-16 04:45:00	28	3.9	336	31	98	100	7.0	4.00	4.0	37000		8301.2
17-Oct-16 04:46:00	Lowered 1.750" Orifice Plate.											
17-Oct-16 05:00:00	28	3.9	337	31	98	100	7.0	4.00	4.0	37000		8302.4
17-Oct-16 05:15:00	28	4.0	337	31	99	100	7.0	4.00	4.0	37000		8303.5
17-Oct-16 05:30:00	28	3.9	335	31	98	100	7.0	4.00	4.0	37000		8304.7
17-Oct-16 05:34:00	Well slugging, lifted 1.750" orifice plate.											
17-Oct-16 05:35:00	Carrier plate jammed inside canalta chamber.											
17-Oct-16 05:45:00	28	3.9	379	31	104	100	7.0	4.00	4.0	37000		8305.8
17-Oct-16 05:55:00	Bypass separator and bleed off pressure, flare watch in place.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
17-Oct-16 06:00:00	Drained water from condensate trap on flare stack.											
17-Oct-16 06:00:00	28	3.8	364	32	33	100	7.0	4.00	4.0	37000		8307.0
17-Oct-16 06:05:00	Opened canalta to check orifice plate.											
17-Oct-16 06:15:00	28	3.9	335	31	31	100	7.0	4.00	4.0	37000		8308.1
17-Oct-16 06:19:00	Orifice plate carrier out and carrying out inspection of teeth.											
17-Oct-16 06:24:00	Putting separator back online and closing bypass.											
17-Oct-16 06:30:00	28	3.8	344	31	102	100	7.0	4.00	4.0	37000		8309.3
17-Oct-16 06:45:00	28	3.8	339	31	100	100	7.0	4.00	4.0	37000		8310.6
17-Oct-16 07:00:00	28	3.9	335	32	103	100	7.0	4.00	4.0	37000		8311.9
17-Oct-16 07:15:00	28	3.8	341	33	99	100	7.0	4.00	4.0	37000		8313.2
17-Oct-16 07:16:00	WHP dropping, well slugging.											
17-Oct-16 07:16:00	Captured sample of slug, BSW 100% no solids.											
17-Oct-16 07:30:00	Sample from slug: Electrical Conductivity=52.7mS@24.4dec, Water Density=1013.6kg/m3 @27.3degC, Dissolved Oxygen=1.1%S, Oxidation Reduction Potential=-135.0mV2. Salinity=31000 ppm.											
17-Oct-16 07:30:00	28	3.8	357	33	83	100	7.0	4.00	4.0	31000		8314.5
17-Oct-16 07:45:00	28	0.6	368	34	105	100	7.0	4.00	4.0	31000		8315.8
17-Oct-16 08:00:00	28	0.6	339	34	93	100	7.0	4.00	4.0	31000		8317.1
17-Oct-16 08:15:00	28	0.6	347	35	98	100	7.0	4.00	4.0	31000		8318.2
17-Oct-16 08:30:00	WHP started to drop, well slugging.											
17-Oct-16 08:30:00	28	0.6	339	35	95	100	7.0	4.00	4.0	31000		8319.4
17-Oct-16 08:45:00	28	0.6	380	35	99	100	7.0	4.00	4.0	31000		8320.5
17-Oct-16 09:00:00	BSW dry, no solids, H2S 5ppm, C02 4%, Gas SG 0.648.											
17-Oct-16 09:00:00	28	0.6	373	36	108	100	7.0	4.00	5.0	31000		8321.7
17-Oct-16 09:13:53	DART crashed, rebooted system.											
17-Oct-16 09:15:00	28	0.6	340	37	93	100	7.0	4.00	5.0	31000		8322.9
17-Oct-16 09:15:29	DART back online, reconnected interact.											
17-Oct-16 09:30:00	28	-1.4	349	37	99	100	7.0	4.00	5.0	31000		8324.2
17-Oct-16 09:40:00	Took ALS water sample from separator, sample EC 53.3mS@32.6degC, pH7, water cumulative = 8849 bbls.											
17-Oct-16 09:45:00	28	0.6	337	36	96	100	7.0	4.00	5.0	31000		8325.5
17-Oct-16 10:00:00	BSW dry, no solids.											
17-Oct-16 10:00:00	28	-2.3	343	37	96	100	7.0	4.00	5.0	31000		8326.7
17-Oct-16 10:15:00	28	-2.2	340	37	98	100	7.0	4.00	5.0	31000		8328.0
17-Oct-16 10:30:00	28	-2.3	338	38	98	100	7.0	4.00	5.0	31000		8329.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
17-Oct-16 10:45:00	28	-2.2	333	39	98	100	7.0	4.00	5.0	31000		8330.5
17-Oct-16 11:00:00	BSW dry, no soilds, Gas SG= 0.648.											
17-Oct-16 11:00:00	28	-2.3	345	39	96	100	7.0	4.00	5.0	31000		8331.8
17-Oct-16 11:15:00	Pumped 60.5 bbls from tank to pond.											
17-Oct-16 11:15:00	28	-2.5	335	38	98	100	7.0	4.00	5.0	31000		8333.1
17-Oct-16 11:30:00	28	-2.2	343	39	96	100	7.0	4.00	5.0	31000		8334.5
17-Oct-16 11:45:00	28	-2.4	339	38	98	100	7.0	4.00	5.0	31000		8335.8
17-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%. SG= 0.648.											
17-Oct-16 12:00:00	28	-2.3	336	37	98	100	7.0	4.00	5.0	31000		8337.2
17-Oct-16 12:15:00	28	-2.1	341	37	96	100	7.0	4.00	5.0	31000		8338.5
17-Oct-16 12:30:00	28	-2.3	343	38	96	100	7.0	4.00	5.0	31000		8339.7
17-Oct-16 12:45:00	28	-2.5	340	39	98	100	7.0	4.00	5.0	31000		8341.0
17-Oct-16 13:00:00	BSW dry, no solids.											
17-Oct-16 13:00:00	28	-2.5	344	37	96	100	7.0	4.00	5.0	31000		8342.3
17-Oct-16 13:15:00	28	-2.3	338	39	98	100	7.0	4.00	5.0	31000		8343.5
17-Oct-16 13:22:00	MP on 28/64" Fixed Choke.											
17-Oct-16 13:22:00	Lowered 1.75" Orifice Plate.											
17-Oct-16 13:30:00	28	-2.3	341	39	102	100	7.0	4.00	5.0	31000		8344.8
17-Oct-16 13:45:00	28	-2.0	345	39	101	100	7.0	4.00	5.0	31000	0.991	8346.0
17-Oct-16 14:00:00	BSW dry, no solids, Gas SG= 0.648.											
17-Oct-16 14:00:00	28	-2.2	344	40	104	100	7.0	4.00	5.0	31000	0.991	8347.3
17-Oct-16 14:01:00	Carry over check at barton scrubber.											
17-Oct-16 14:13:09	Computer crashed, disconnected and rebooted.											
17-Oct-16 14:15:00	28	-3.4	336	39	103	100	7.0	4.00	5.0	31000	1.000	8348.6
17-Oct-16 14:18:58	Reconnected to Interact.											
17-Oct-16 14:30:00	28	-2.2	338	37	104	100	7.0	4.00	5.0	31000	0.993	8349.8
17-Oct-16 14:45:00	28	-2.3	339	35	102	100	7.0	4.00	5.0	31000	0.999	8351.1
17-Oct-16 15:00:00	BSW dry, no solids											
17-Oct-16 15:00:00	28	-1.9	337	35	104	100	7.0	4.00	5.0	31000	0.997	8352.4
17-Oct-16 15:15:00	28	0.8	340	35	102	100	7.0	4.00	5.0	31000	0.995	8353.6
17-Oct-16 15:30:00	28	0.9	337	35	102	100	7.0	4.00	5.0	31000	1.002	8354.9
17-Oct-16 15:45:00	28	0.2	345	36	101	100	7.0	4.00	5.0	31000	0.993	8356.2
17-Oct-16 16:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5% Gas SG0.648.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
17-Oct-16 16:00:00	28	0.8	345	36	102	100	7.0	3.50	5.0	31000	0.999	8357.4
17-Oct-16 16:01:00	Took Isotube sample #28 from Separator at 94psia 36.7degC.											
17-Oct-16 16:15:00	28	-2.3	339	37	102	100	7.0	3.50	5.0	31000	1.001	8358.7
17-Oct-16 16:30:00	28	-2.3	344	36	102	100	7.0	3.50	5.0	31000	0.996	8360.0
17-Oct-16 16:45:00	28	-2.6	344	37	102	100	7.0	3.50	5.0	31000	1.000	8361.2
17-Oct-16 17:00:00	28	-2.3	339	37	102	100	7.0	3.50	5.0	31000	0.996	8362.5
17-Oct-16 17:15:00	28	-2.7	344	37	102	100	7.0	3.50	5.0	31000	0.994	8363.9
17-Oct-16 17:30:00	28	-2.1	342	35	102	100	7.0	3.50	5.0	31000	0.995	8365.3
17-Oct-16 17:41:00	Dart crashed lost connection to Interact.											
17-Oct-16 17:45:00	DART back online, reconnected to interact.											
17-Oct-16 17:45:00	28	-2.2	339	34	103	100	7.0	3.50	5.0	31000	1.004	8366.6
17-Oct-16 18:00:00	BSW dry, no solids CO2 3.5% H2S 5ppm Gass SG=0.646.											
17-Oct-16 18:00:00	28	1.1	343	34	102	100	7.0	3.50	5.0	31000	0.998	8368.0
17-Oct-16 18:15:00	28	1.2	340	34	101	100	7.0	3.50	5.0	31000	1.005	8369.2
17-Oct-16 18:30:00	28	0.9	346	33	103	100	7.0	3.50	5.0	31000	0.999	8370.3
17-Oct-16 18:45:00	28	0.9	339	33	104	100	7.0	3.50	5.0	31000	1.008	8371.5
17-Oct-16 19:00:00	BSW dry, no solids.											
17-Oct-16 19:00:00	28	0.9	336	32	103	100	7.0	3.50	5.0	31000	1.003	8372.6
17-Oct-16 19:15:00	28	0.9	342	32	102	100	7.0	3.50	5.0	31000	1.003	8373.9
17-Oct-16 19:28:00	Dart crashed lost connection to Interact.											
17-Oct-16 19:30:00	28	1.0	342	32	103	100	7.0	3.50	5.0	31000	1.007	8375.1
17-Oct-16 19:31:00	DART back online, reconnected interact.											
17-Oct-16 19:45:00	28	0.9	342	32	102	100	7.0	3.50	5.0	31000	1.010	8376.4
17-Oct-16 20:00:00	BSW dry, no solids Gas SG=0.646.											
17-Oct-16 20:00:00	28	0.9	336	32	102	100	7.0	3.50	5.0	31000	1.004	8377.7
17-Oct-16 20:15:00	28	0.9	341	32	102	100	7.0	3.50	5.0	31000	1.012	8378.9
17-Oct-16 20:30:00	28	0.9	336	32	103	100	7.0	3.50	5.0	31000	1.009	8380.2
17-Oct-16 20:45:00	28	0.8	340	32	100	100	7.0	3.50	5.0	31000	1.010	8381.5
17-Oct-16 21:00:00	BSW dry, no solids CO2 3% H2S 4.5ppm.											
17-Oct-16 21:00:00	28	1.0	337	32	103	100	7.0	3.00	4.5	31000	1.011	8382.7
17-Oct-16 21:15:00	28	0.8	339	32	103	100	7.0	3.00	4.5	31000	1.003	8383.9
17-Oct-16 21:30:00	28	1.0	338	32	103	100	7.0	3.00	4.5	31000	1.009	8385.0
17-Oct-16 21:42:00	Interact no longer updating data, stopped and restarted OPC causing DART to crash.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
17-Oct-16 21:44:00	DART back online, Interact transmitting data again.											
17-Oct-16 21:45:00	28	1.1	336	32	102	100	7.0	3.00	4.5	31000	1.010	8386.2
17-Oct-16 22:00:00	BSW dry, no solids.											
17-Oct-16 22:00:00	28	3.9	336	32	103	100	7.0	3.00	4.5	31000	1.009	8387.3
17-Oct-16 22:15:00	28	3.9	337	32	103	100	7.0	3.00	4.5	31000	1.009	8388.7
17-Oct-16 22:30:00	28	4.1	335	32	105	100	7.0	3.00	4.5	31000	1.010	8390.1
17-Oct-16 22:45:00	28	3.9	334	32	103	100	7.0	3.00	4.5	31000	1.009	8391.5
17-Oct-16 23:00:00	BSW dry, no solids Gas SG=0.648.											
17-Oct-16 23:00:00	28	3.9	334	33	103	100	7.0	3.00	4.5	31000	1.015	8392.9
17-Oct-16 23:15:00	28	3.9	337	32	100	100	7.0	3.00	4.5	31000	1.010	8394.0
17-Oct-16 23:30:00	28	3.8	336	32	105	100	7.0	3.00	4.5	31000	1.029	8395.2
17-Oct-16 23:45:00	28	3.8	337	32	103	100	7.0	3.00	4.5	31000	1.023	8396.3
18-Oct-16 00:00:00	BSW dry, no solids CO2 2.5% H2S 4ppm.											
18-Oct-16 00:00:00	Pumped 61.18 bbls to the pond.											
18-Oct-16 00:00:00	28	3.9	342	32	105	100	7.0	2.50	4.0	31000	1.030	8397.5
18-Oct-16 00:15:00	28	3.9	335	32	103	100	7.0	2.50	4.0	31000	1.039	8398.7
18-Oct-16 00:30:00	28	3.8	332	33	105	100	7.0	2.50	4.0	31000	1.033	8399.9
18-Oct-16 00:45:00	28	3.9	338	33	103	100	7.0	2.50	4.0	31000	1.025	8401.2
18-Oct-16 01:00:00	BSW dry, no solids Gas SG=0.646.											
18-Oct-16 01:00:00	28	3.9	338	33	102	100	7.0	2.50	4.0	31000	1.027	8402.4
18-Oct-16 01:15:00	28	4.1	337	33	103	100	7.0	2.50	4.0	31000	1.025	8403.7
18-Oct-16 01:30:00	28	3.9	338	32	104	100	7.0	2.50	4.0	31000	1.023	8405.0
18-Oct-16 01:45:00	28	4.0	333	32	103	100	7.0	2.50	4.0	31000	1.035	8406.2
18-Oct-16 02:00:00	BSW dry, no solids.											
18-Oct-16 02:00:00	28	4.0	338	32	103	100	7.0	2.50	4.0	31000	1.019	8407.5
18-Oct-16 02:15:00	28	3.9	330	32	104	100	7.0	2.50	4.0	31000	1.049	8409.1
18-Oct-16 02:30:00	28	3.9	338	32	103	100	7.0	2.50	4.0	31000	1.023	8410.7
18-Oct-16 02:45:00	28	3.9	332	32	103	100	7.0	2.50	4.0	31000	1.059	8412.3
18-Oct-16 03:00:00	BSW dry, no solids Gas SG=0.65 CO2 2.5% H2S 3.5ppm.											
18-Oct-16 03:00:00	28	4.1	344	32	103	100	7.0	2.50	3.5	31000	1.037	8413.9
18-Oct-16 03:15:00	28	3.8	333	32	103	100	7.0	2.50	3.5	31000	1.063	8415.1
18-Oct-16 03:30:00	28	3.9	340	32	102	100	7.0	2.50	3.5	31000	1.057	8416.2
18-Oct-16 03:45:00	28	3.9	341	32	102	100	7.0	2.50	3.5	31000	1.033	8417.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Oct-16 04:00:00	BSW dry, no solids.											
18-Oct-16 04:00:00	28	3.8	338	32	103	100	7.0	2.50	3.5	31000	1.028	8418.5
18-Oct-16 04:15:00	28	4.1	338	32	102	100	7.0	2.50	3.5	31000	1.042	8419.7
18-Oct-16 04:30:00	28	4.0	339	32	105	100	7.0	2.50	3.5	31000	1.027	8420.8
18-Oct-16 04:45:00	28	3.9	333	32	105	100	7.0	2.50	3.5	31000	1.045	8422.0
18-Oct-16 05:00:00	BSW dry, no solids Gas SG=0.648.											
18-Oct-16 05:00:00	28	3.9	333	32	105	100	7.0	2.50	3.5	31000	1.047	8423.1
18-Oct-16 05:15:00	28	4.1	337	32	103	100	7.0	2.50	3.5	31000	1.041	8424.2
18-Oct-16 05:30:00	28	3.9	345	32	102	100	7.0	2.50	3.5	31000	1.012	8425.2
18-Oct-16 05:45:00	Investigating possible causes of gas rate fluctuation.											
18-Oct-16 05:45:00	28	4.1	341	32	105	100	7.0	2.50	3.5	31000	1.040	8426.2
18-Oct-16 06:00:00	28	4.0	334	32	103	100	7.0	2.50	3.5	31000	1.033	8427.3
18-Oct-16 06:13:00	End of MP.											
18-Oct-16 06:15:00	28	3.9	334	32	102	100	7.0	2.50	3.5	31000		8428.5
18-Oct-16 06:18:00	Bypassed and bled off separator to check the orifice plate and chamber.											
18-Oct-16 06:25:00	Separator pressure fully bled off.											
18-Oct-16 06:30:00	28	3.8	338	31	32	100	7.0	2.50	3.5	31000		8429.8
18-Oct-16 06:36:00	Putting separator back online, closing bypass.											
18-Oct-16 06:40:00	Separator back online.											
18-Oct-16 06:45:00	28	3.9	335	31	106	100	7.0	2.50	3.5	31000		8431.1
18-Oct-16 06:53:00	Checking line up to put sand filter online.											
18-Oct-16 06:55:00	Sand filter online.											
18-Oct-16 06:55:00	Preparing to open new DART file and reconnect to InterAct.											
18-Oct-16 06:55:00	Pass flow through sand filter.											
18-Oct-16 07:00:00	BSW dry, trace of solids.											
18-Oct-16 07:00:00	28	3.8	339	31	108	100	7.0	2.50	3.5	31000		8432.3
18-Oct-16 07:15:00	28	3.6	333	32	104	100	7.0	2.50	3.5	31000		8433.6
18-Oct-16 07:30:00	28	3.9	338	32	105	100	7.0	2.50	3.5	31000		8434.9
18-Oct-16 07:41:39	New DART file online, streaming data to InterAct.											
18-Oct-16 07:45:00	28	3.8	336	32	103	100	7.0	2.50	3.5	31000		8436.1
18-Oct-16 08:00:00	BSW dry, trace of solids.											
18-Oct-16 08:00:00	28	3.5	336	32	104	100	7.0	2.50	3.5	31000		8437.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Oct-16 08:15:00	28	3.1	337	33	104	100	7.0	2.50	3.5	31000		8438.3
18-Oct-16 08:30:00	28	2.6	337	33	104	100	7.0	2.50	3.5	31000		8439.2
18-Oct-16 08:45:00	28	2.2	338	34	104	100	7.0	2.50	3.5	31000		8440.1
18-Oct-16 09:00:00	BSW=100% no solids, H2S 5ppm, CO2 4%.											
18-Oct-16 09:00:00	28	1.7	339	35	104	100	7.0	4.00	5.0	31000		8441.1
18-Oct-16 09:15:00	28	1.3	339	35	104	100	7.0	4.00	5.0	31000		8442.4
18-Oct-16 09:30:00	28	0.8	340	36	104	100	7.0	4.00	5.0	31000		8443.8
18-Oct-16 09:45:00	28	0.7	342	36	103	100	7.0	4.00	5.0	31000		8445.2
18-Oct-16 09:52:00	InterACT back online.											
18-Oct-16 10:00:00	BSW dry, no solids.											
18-Oct-16 10:00:00	28	0.8	341	37	105	100	7.0	4.00	5.0	31000		8446.6
18-Oct-16 10:15:00	28	-0.9	338	38	105	100	7.0	4.00	5.0	31000		8447.7
18-Oct-16 10:30:00	28	-2.1	328	38	101	100	7.0	4.00	5.0	31000		8448.9
18-Oct-16 10:45:00	28	-2.3	359	38	104	100	7.0	4.00	5.0	31000		8450.0
18-Oct-16 11:00:00	BSW dry, no solids.											
18-Oct-16 11:00:00	28	-2.3	335	38	98	100	7.0	4.00	5.0	31000		8451.2
18-Oct-16 11:15:00	Pumped 56.81 bbls from tank to pond.											
18-Oct-16 11:15:00	28	-2.2	341	39	101	100	7.0	4.00	5.0	31000		8452.4
18-Oct-16 11:30:00	28	-2.3	341	39	99	100	7.0	4.00	5.0	31000		8453.7
18-Oct-16 11:45:00	28	-2.1	341	39	99	100	7.0	4.00	5.0	31000		8455.0
18-Oct-16 12:00:00	BSW dry, no solids, Gas SG 0.648.											
18-Oct-16 12:00:00	28	-2.5	339	39	99	100	7.0	4.00	5.0	31000		8456.2
18-Oct-16 12:15:00	28	-2.5	337	40	99	100	7.0	4.00	5.0	31000		8457.5
18-Oct-16 12:30:00	28	-2.3	347	39	99	100	7.0	4.00	5.0	31000		8458.8
18-Oct-16 12:45:00	28	-2.1	340	37	99	100	7.0	4.00	5.0	31000		8460.0
18-Oct-16 13:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.											
18-Oct-16 13:00:00	28	-2.2	341	38	99	100	7.0	4.00	5.0	31000		8461.3
18-Oct-16 13:15:00	28	-2.5	339	38	101	100	7.0	4.00	5.0	31000		8462.6
18-Oct-16 13:20:00	Lowered 1.75" Orifice Plate											
18-Oct-16 13:21:00	MP on 28/64" Fixed Choke.											
18-Oct-16 13:30:00	28	-2.3	336	38	101	100	7.0	4.00	5.0	31000	0.981	8463.8
18-Oct-16 13:45:00	28	-2.3	340	38	101	100	7.0	4.00	5.0	31000	0.988	8465.1
18-Oct-16 14:00:00	BSW dry, no solids, Gas SG= 0.648.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Oct-16 14:00:00	28	-2.3	345	38	101	100	7.0	4.00	5.0	31000	0.981	8466.4
18-Oct-16 14:07:00	WHP started decreasing, well slugging.											
18-Oct-16 14:09:00	Lifted up orifice plate from separator during slugging.											
18-Oct-16 14:09:00	End of MP.											
18-Oct-16 14:15:00	28	-2.3	287	37	67	100	7.0	4.00	5.0	31000		8467.6
18-Oct-16 14:16:00	Slug on surface, capture sample, BSW 100%											
18-Oct-16 14:16:00	Slug Results=Electrical Conductivity=63.78mS@33.7DegC,Water Density=1015.3kg/m3@27.1DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-180.9mV2, Salinity=23100ppm.											
18-Oct-16 14:30:00	28	-2.3	407	37	105	100	7.0	4.00	5.0	23100		8468.9
18-Oct-16 14:45:00	28	-2.0	320	37	96	100	7.0	4.00	5.0	23100		8470.2
18-Oct-16 15:00:00	BSW=100%,											
18-Oct-16 15:00:00	28	-2.3	356	37	93	100	7.0	4.00	5.0	23100		8471.4
18-Oct-16 15:15:00	28	-2.0	334	36	92	100	7.0	4.00	5.0	23100		8472.7
18-Oct-16 15:30:00	28	-2.3	343	36	92	100	7.0	4.00	5.0	23100		8473.9
18-Oct-16 15:45:00	28	-2.5	343	36	92	100	7.0	4.00	5.0	23100		8475.2
18-Oct-16 16:00:00	BSW=100% trace of solids, H2S 5ppm, CO2 4%.											
18-Oct-16 16:00:00	Slug Results=Electrical Conductivity=55.5mS@25.8DegC,Water Density=1015.3kg/m3@27.3DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-177.5mV2, Salinity=37000ppm.											
18-Oct-16 16:00:00	28	-2.1	341	36	90	100	7.0	4.00	5.0	37000		8476.5
18-Oct-16 16:01:00	Took Isotube sample from separator at press 82.9psia, temp 35.6degC, Gas SG 0.648.											
18-Oct-16 16:15:00	28	-1.3	338	35	90	100	7.0	4.00	5.0	37000		8477.7
18-Oct-16 16:30:00	28	-1.8	342	35	92	100	7.0	4.00	5.0	37000		8478.9
18-Oct-16 16:45:00	28	-2.1	339	35	90	100	7.0	4.00	5.0	37000		8480.1
18-Oct-16 17:00:00	BSW dry, no solids.											
18-Oct-16 17:00:00	28	-1.9	339	35	92	100	7.0	4.00	5.0	37000		8481.3
18-Oct-16 17:15:00	28	-1.0	339	35	91	100	7.0	4.00	5.0	37000		8482.4
18-Oct-16 17:30:00	28	-2.0	340	35	90	100	7.0	4.00	5.0	37000		8483.6
18-Oct-16 17:34:00	Lowered 1.75" Orifice Plate, gas SG=0.648.											
18-Oct-16 17:35:00	MP on 28/64" Fixed Choke.											
18-Oct-16 17:45:00	28	-2.1	342	35	90	100	7.0	4.00	5.0	37000	0.959	8484.7
18-Oct-16 18:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.											
18-Oct-16 18:00:00	28	0.8	345	34	92	100	7.0	4.00	5.0	37000	0.968	8485.9
18-Oct-16 18:15:00	28	0.8	337	33	93	100	7.0	4.00	5.0	37000	0.971	8486.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Oct-16 18:30:00	28	1.2	337	33	92	100	7.0	4.00	5.0	37000	0.968	8488.0
18-Oct-16 18:45:00	28	1.0	339	33	92	100	7.0	4.00	5.0	37000	0.969	8489.0
18-Oct-16 19:00:00	BSW dry, no solids.											
18-Oct-16 19:00:00	28	0.7	335	33	92	100	7.0	4.00	5.0	37000	0.971	8490.0
18-Oct-16 19:15:00	28	1.0	338	33	93	100	7.0	4.00	5.0	37000	0.970	8491.3
18-Oct-16 19:30:00	28	0.8	337	33	93	100	7.0	4.00	5.0	37000	0.976	8492.5
18-Oct-16 19:45:00	28	0.8	338	33	92	100	7.0	4.00	5.0	37000	0.970	8493.8
18-Oct-16 20:00:00	Electrical Conductivity=52.1mS@23.2DegC,Water Density=1015.7kg/m3@25.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-198.6mV2, Salinity=37000											
18-Oct-16 20:00:00	BSW=100% no solids.											
18-Oct-16 20:00:00	28	1.2	342	33	92	100	7.0	4.00	5.0	37000	0.969	8495.1
18-Oct-16 20:15:00	28	0.8	339	33	91	100	7.0	4.00	5.0	37000	0.972	8496.3
18-Oct-16 20:30:00	28	0.8	341	33	92	100	7.0	4.00	5.0	37000	0.975	8497.6
18-Oct-16 20:45:00	28	0.8	338	33	93	100	7.0	4.00	5.0	37000	0.974	8498.9
18-Oct-16 21:00:00	BSW dry, no solids, H2S 6ppm, CO2 3%.											
18-Oct-16 21:00:00	28	0.8	340	33	93	100	7.0	3.00	6.0	37000	0.973	8500.1
18-Oct-16 21:15:00	28	0.8	342	32	92	100	7.0	3.00	6.0	37000	0.975	8501.4
18-Oct-16 21:30:00	GasDP has started fluctuating affecting GasQA, this is a recurring event as shown from the night of the 17th October where the same effects occured.											
18-Oct-16 21:30:00	28	1.0	340	32	92	100	7.0	3.00	6.0	37000	0.979	8502.7
18-Oct-16 21:45:00	28	4.1	338	32	91	100	7.0	3.00	6.0	37000	0.976	8503.9
18-Oct-16 22:00:00	BSW dry, no solids.											
18-Oct-16 22:00:00	28	3.9	341	32	92	100	7.0	3.00	6.0	37000	0.976	8505.2
18-Oct-16 22:15:00	28	3.8	338	32	93	100	7.0	3.00	6.0	37000	0.977	8506.5
18-Oct-16 22:30:00	28	3.9	341	33	94	100	7.0	3.00	6.0	37000	0.977	8507.7
18-Oct-16 22:45:00	28	3.8	338	33	94	100	7.0	3.00	6.0	37000	0.982	8509.0
18-Oct-16 23:00:00	Electrical Conductivity=52.1mS@23.2DegC,Water Density=1015.7kg/m3@25.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-198.6mV2, Salinity=37000											
18-Oct-16 23:00:00	BSW=100% no solids, Gas SG=0.648											
18-Oct-16 23:00:00	28	3.9	331	33	93	100	7.0	3.00	6.0	37000	0.986	8510.3
18-Oct-16 23:15:00	28	3.9	344	33	93	100	7.0	3.00	6.0	37000	0.978	8511.3
18-Oct-16 23:30:00	28	3.9	336	33	95	100	7.0	3.00	6.0	37000	0.993	8512.3
18-Oct-16 23:45:00	28	3.9	340	33	92	100	7.0	3.00	6.0	37000	0.982	8513.4
19-Oct-16 00:00:00	BSW=100% no solids, H2S 5.5ppm, CO2 4%											
19-Oct-16 00:00:00	28	3.9	339	33	93	100	7.0	4.00	5.5	37000	0.995	8514.4
19-Oct-16 00:01:00	Pumped 66.7 bbls from tank to the pond.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
19-Oct-16 00:15:00	28	4.1	335	32	92	100	7.0	4.00	5.5	37000	0.983	8515.7
19-Oct-16 00:30:00	28	3.9	339	32	93	100	7.0	4.00	5.5	37000	0.987	8516.9
19-Oct-16 00:45:00	28	3.9	333	32	93	100	7.0	4.00	5.5	37000	0.984	8518.2
19-Oct-16 01:00:00	BSW dry, no solids, Gas SG=0.646.											
19-Oct-16 01:00:00	28	3.9	340	33	93	100	7.0	4.00	5.5	37000	0.979	8519.5
19-Oct-16 01:15:00	28	3.8	337	33	93	100	7.0	4.00	5.5	37000	0.988	8520.6
19-Oct-16 01:30:00	28	3.9	341	33	93	100	7.0	4.00	5.5	37000	0.988	8521.8
19-Oct-16 01:45:00	28	3.8	337	33	94	100	7.0	4.00	5.5	37000	0.989	8522.9
19-Oct-16 02:00:00	BSW dry, no solids.											
19-Oct-16 02:00:00	28	4.1	341	33	94	100	7.0	4.00	5.5	37000	0.991	8524.1
19-Oct-16 02:15:00	28	3.9	336	33	94	100	7.0	4.00	5.5	37000	0.994	8525.2
19-Oct-16 02:30:00	28	3.9	340	33	94	100	7.0	4.00	5.5	37000	0.996	8526.4
19-Oct-16 02:45:00	28	3.8	334	33	94	100	7.0	4.00	5.5	37000	0.988	8527.5
19-Oct-16 03:00:00	BSW dry, no solids, H2S 6ppm, CO2 4%, Gas SG=0.646.											
19-Oct-16 03:00:00	BSW dry, no solids.											
19-Oct-16 03:00:00	28	3.9	340	33	93	100	7.0	4.00	6.0	37000	0.992	8528.7
19-Oct-16 03:15:00	28	3.8	339	33	95	100	7.0	4.00	6.0	37000	0.994	8529.7
19-Oct-16 03:30:00	28	3.9	337	33	93	100	7.0	4.00	6.0	37000	0.996	8530.7
19-Oct-16 03:45:00	28	3.9	337	32	93	100	7.0	4.00	6.0	37000	0.992	8531.8
19-Oct-16 04:00:00	BSW=100%, no solids.											
19-Oct-16 04:00:00	28	3.9	343	32	94	100	7.0	4.00	6.0	37000	0.986	8532.8
19-Oct-16 04:15:00	28	3.9	336	32	94	100	7.0	4.00	6.0	37000	0.997	8534.1
19-Oct-16 04:30:00	28	3.9	342	32	94	100	7.0	4.00	6.0	37000	0.992	8535.3
19-Oct-16 04:45:00	28	3.9	341	32	93	100	7.0	4.00	6.0	37000	0.999	8536.6
19-Oct-16 05:00:00	BSW dry, no solids.											
19-Oct-16 05:00:00	28	3.9	339	32	93	100	7.0	4.00	6.0	37000	1.005	8537.9
19-Oct-16 05:15:00	28	3.8	340	32	94	100	7.0	4.00	6.0	37000	0.997	8539.1
19-Oct-16 05:30:00	28	4.1	338	32	94	100	7.0	4.00	6.0	37000	1.001	8540.4
19-Oct-16 05:40:00	Checked for carry over at barton scrubbers.											
19-Oct-16 05:45:00	28	4.1	343	32	94	100	7.0	4.00	6.0	37000	1.002	8541.7
19-Oct-16 06:00:00	28	4.1	336	32	94	100	7.0	4.00	6.0	37000	0.998	8542.9
19-Oct-16 06:15:00	28	4.1	339	32	94	100	7.0	4.00	6.0	37000	0.988	8544.0
19-Oct-16 06:30:00	28	3.9	338	32	94	100	7.0	4.00	6.0	37000	0.996	8545.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
19-Oct-16 06:45:00	Checked for carry over at barton scrubbers.											
19-Oct-16 06:45:00	28	3.8	336	33	96	100	7.0	4.00	6.0	37000	0.994	8546.0
19-Oct-16 07:00:00	BSW=100%, trace of solids.											
19-Oct-16 07:00:00	28	3.6	341	33	95	100	7.0	4.00	6.0	37000	0.993	8547.1
19-Oct-16 07:15:00	28	3.8	341	34	95	100	7.0	4.00	6.0	37000	0.996	8548.4
19-Oct-16 07:30:00	28	0.4	335	35	95	100	7.0	4.00	6.0	37000	0.997	8549.8
19-Oct-16 07:45:00	28	0.8	341	35	95	100	7.0	4.00	6.0	37000	0.996	8551.2
19-Oct-16 08:00:00	28	0.6	339	36	95	100	7.0	4.00	6.0	37000	0.995	8552.6
19-Oct-16 08:01:00	Took ALS water sample from separator.											
19-Oct-16 08:15:00	28	0.8	341	36	95	100	7.0	4.00	6.0	37000	0.999	8553.7
19-Oct-16 08:30:00	28	0.4	337	36	95	100	7.0	4.00	6.0	37000	0.998	8554.9
19-Oct-16 08:45:00	28	-0.6	338	37	95	100	7.0	4.00	6.0	37000	0.988	8556.0
19-Oct-16 09:00:00	Gas SG=0.646.											
19-Oct-16 09:00:00	28	0.2	341	37	95	100	7.0	4.00	6.0	37000	1.004	8557.2
19-Oct-16 09:10:00	Checked for carry over at barton scrubbers.											
19-Oct-16 09:15:00	28	-2.1	341	38	95	100	7.0	4.00	6.0	37000	1.005	8558.3
19-Oct-16 09:30:00	28	-2.3	347	38	95	100	7.0	4.00	6.0	37000	0.983	8559.5
19-Oct-16 09:45:00	28	-2.1	342	38	95	100	7.0	4.00	6.0	37000	0.988	8560.6
19-Oct-16 10:00:00	28	-2.1	338	39	95	100	7.0	4.00	6.0	37000	0.987	8561.8
19-Oct-16 10:10:18	Checked for carry over at barton scrubbers.											
19-Oct-16 10:15:00	28	-2.3	341	39	95	100	7.0	4.00	6.0	37000	0.989	8562.8
19-Oct-16 10:30:00	28	-2.5	342	39	95	100	7.0	4.00	6.0	37000	0.982	8563.9
19-Oct-16 10:45:00	28	-1.9	342	40	96	100	7.0	4.00	6.0	37000	0.986	8564.9
19-Oct-16 10:46:23	Checked for carry over at barton scrubbers.											
19-Oct-16 11:00:00	Gas SG=0.646.											
19-Oct-16 11:00:00	28	-2.5	346	39	95	100	7.0	4.00	6.0	37000	0.978	8565.9
19-Oct-16 11:06:03	Checked for carry over at barton scrubbers.											
19-Oct-16 11:15:00	28	-2.1	340	39	96	100	7.0	4.00	6.0	37000	0.982	8567.2
19-Oct-16 11:30:00	28	-2.3	338	40	96	100	7.0	4.00	6.0	37000	0.985	8568.5
19-Oct-16 11:45:00	28	-2.1	343	40	96	100	7.0	4.00	6.0	37000	0.980	8569.7
19-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5%.											
19-Oct-16 12:00:00	28	-2.1	338	40	96	100	7.0	3.50	5.0	37000	0.985	8571.0
19-Oct-16 12:02:00	Checked for carry over at barton scrubbers.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
19-Oct-16 12:15:00	28	-2.1	342	40	98	100	7.0	3.50	5.0	37000	0.971	8572.1
19-Oct-16 12:30:00	28	-2.1	345	40	96	100	7.0	3.50	5.0	37000	0.985	8573.3
19-Oct-16 12:45:00	28	-2.3	338	40	96	100	7.0	3.50	5.0	37000	0.984	8574.4
19-Oct-16 13:00:00	28	-2.1	347	40	97	100	7.0	3.50	5.0	37000	0.980	8575.6
19-Oct-16 13:08:00	Checked for carry over at barton scrubbers.											
19-Oct-16 13:08:00	Gas SG=0.646.											
19-Oct-16 13:15:00	28	-2.1	341	40	98	100	7.0	3.50	5.0	37000	0.981	8576.6
19-Oct-16 13:30:00	28	-2.1	344	40	97	100	7.0	3.50	5.0	37000	0.981	8577.6
19-Oct-16 13:45:00	28	-3.7	342	40	96	100	7.0	3.50	5.0	37000	0.988	8578.7
19-Oct-16 14:00:00	28	-2.1	349	40	96	100	7.0	3.50	5.0	37000	0.974	8579.7
19-Oct-16 14:03:00	Checked for carry over at barton scrubbers.											
19-Oct-16 14:10:00	Pumped out 59 bbls from tank to pond.											
19-Oct-16 14:15:00	28	-5.1	342	40	98	100	7.0	3.50	5.0	37000	0.977	8580.9
19-Oct-16 14:30:00	28	-2.3	343	40	96	100	7.0	3.50	5.0	37000	0.980	8582.1
19-Oct-16 14:45:00	28	-3.9	344	39	96	100	7.0	3.50	5.0	37000	0.982	8583.2
19-Oct-16 15:00:00	Gas SG=0.646.											
19-Oct-16 15:00:00	28	-1.9	346	37	96	100	7.0	3.50	5.0	37000	0.979	8584.4
19-Oct-16 15:15:00	28	-2.1	337	39	98	100	7.0	3.50	5.0	37000	0.980	8586.0
19-Oct-16 15:30:00	28	-5.1	342	39	97	100	7.0	3.50	5.0	37000	0.979	8587.6
19-Oct-16 15:38:48	WHP dropped, well slugging.											
19-Oct-16 15:40:00	Lifted 1.75" Orifice Plate.											
19-Oct-16 15:40:00	End of MP.											
19-Oct-16 15:45:00	28	-2.1	208	38	64	100	7.0	3.50	5.0	37000		8589.2
19-Oct-16 15:49:24	Water on surface, captured sample, BSW=100% with traces of solids.											
19-Oct-16 15:58:00	Slug water results= Electrical Conductivity=68.78mS@37.3DegC,Water Density=1012.9kg/m3@34.6DegC, Dissolved Oxygen=3.3%, Oxidation Reduction Potential=-138.2mV2, Salinity=37000ppm.											
19-Oct-16 16:00:00	28	0.6	490	39	102	100	7.0	3.50	5.0	37000		8590.8
19-Oct-16 16:15:00	28	-2.1	480	40	102	100	7.0	3.50	5.0	37000		8591.9
19-Oct-16 16:30:00	28	-5.1	403	39	92	100	7.0	3.50	5.0	37000		8592.9
19-Oct-16 16:45:00	28	-5.1	411	38	84	100	7.0	3.50	5.0	37000		8593.9
19-Oct-16 17:00:00	BSW 100% with 0.25% solids, H2S 5ppm, CO2 3.5%, Gas SG=0.646.											
19-Oct-16 17:00:00	28	-1.9	414	37	87	100	7.0	3.50	5.0	37000		8595.0
19-Oct-16 17:00:20	BSW solids black in colour and flakey consistancy.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
19-Oct-16 17:01:00	Took Isotube sample #31 from separator gas line at 83.8psia 36.5degC.											
19-Oct-16 17:03:00	Observed 100psia differential across sand filter.											
19-Oct-16 17:04:00	Dumped sand filter through adjustable choke to sand skip in attempt to clear.											
19-Oct-16 17:07:00	Still observed differential pressure across sand filter, switched to LH side. Flushed RH side clean.											
19-Oct-16 17:15:00	28	-2.1	325	36	92	100	7.0	3.50	5.0	37000		8595.8
19-Oct-16 17:30:00	28	-1.9	344	36	89	100	7.0	3.50	5.0	37000		8596.6
19-Oct-16 17:45:00	28	-1.9	330	36	92	100	7.0	3.50	5.0	37000		8597.4
19-Oct-16 18:00:00	28	-2.1	340	36	90	100	7.0	3.50	5.0	37000		8598.2
19-Oct-16 18:15:00	28	-1.9	339	35	90	100	7.0	3.50	5.0	37000		8599.2
19-Oct-16 18:30:00	28	-1.9	340	35	89	100	7.0	3.50	5.0	37000		8600.3
19-Oct-16 18:45:00	28	-2.1	338	35	92	100	7.0	3.50	5.0	37000		8601.3
19-Oct-16 19:00:00	28	-2.1	341	35	90	100	7.0	3.50	5.0	37000		8602.3
19-Oct-16 19:15:00	28	-2.1	340	35	90	100	7.0	3.50	5.0	37000		8603.6
19-Oct-16 19:30:00	28	0.7	335	35	90	100	7.0	3.50	5.0	37000		8604.9
19-Oct-16 19:45:00	28	0.5	344	34	90	100	7.0	3.50	5.0	37000		8606.1
19-Oct-16 20:00:00	28	0.7	335	34	90	100	7.0	3.50	5.0	37000		8607.4
19-Oct-16 20:15:00	28	1.0	334	34	92	100	7.0	3.50	5.0	37000		8608.5
19-Oct-16 20:30:00	28	1.0	332	34	92	100	7.0	3.50	5.0	37000		8609.7
19-Oct-16 20:45:00	28	1.2	337	34	92	100	7.0	3.50	5.0	37000		8610.9
19-Oct-16 21:00:00	28	0.8	338	34	92	100	7.0	3.50	5.0	37000		8612.0
19-Oct-16 21:15:00	28	0.7	336	34	92	100	7.0	3.50	5.0	37000		8613.0
19-Oct-16 21:30:00	28	0.9	333	33	92	100	7.0	3.50	5.0	37000		8614.1
19-Oct-16 21:45:00	28	1.0	336	33	90	100	7.0	3.50	5.0	37000		8615.1
19-Oct-16 22:00:00	28	1.2	328	33	90	100	7.0	3.50	5.0	37000		8616.1
19-Oct-16 22:01:00	WHP dropping, well slugging.											
19-Oct-16 22:05:00	Slug at surface, checked BSW=100% no solids.											
19-Oct-16 22:15:00	28	2.9	380	33	105	100	7.0	3.50	5.0	37000		8617.5
19-Oct-16 22:30:00	28	0.8	384	34	111	100	7.0	3.50	5.0	37000		8618.9
19-Oct-16 22:45:00	28	1.2	306	33	98	100	7.0	3.50	5.0	37000		8620.3
19-Oct-16 23:00:00	BSW=100%, no solids, CO2=4% H2S=6ppm.											
19-Oct-16 23:00:00	Water results= Electrical Conductivity=51.5mS@20.3DegC,Water Density=1016.8kg/m3@23.6DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-126.6mV2, Salinity=33000ppm.											
19-Oct-16 23:00:00	28	0.8	346	33	100	100	7.0	4.00	6.0	33000		8621.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
19-Oct-16 23:15:00	28	1.0	331	33	96	100	7.0	4.00	6.0	33000		8622.9
19-Oct-16 23:30:00	28	1.2	339	33	96	100	7.0	4.00	6.0	33000		8624.2
19-Oct-16 23:45:00	28	0.8	330	33	96	100	7.0	4.00	6.0	33000		8625.5
20-Oct-16 00:00:00	28	1.3	333	33	96	100	7.0	4.00	6.0	33000		8626.7
20-Oct-16 00:15:00	28	4.0	335	33	96	100	7.0	4.00	6.0	33000		8627.9
20-Oct-16 00:30:00	28	4.1	329	32	96	100	7.0	4.00	6.0	33000		8629.0
20-Oct-16 00:45:00	28	3.9	334	32	96	100	7.0	4.00	6.0	33000		8630.2
20-Oct-16 01:00:00	28	4.1	333	32	96	100	7.0	4.00	6.0	33000		8631.3
20-Oct-16 01:15:00	28	4.3	337	32	96	100	7.0	4.00	6.0	33000		8632.4
20-Oct-16 01:30:00	28	4.3	329	32	97	100	7.0	4.00	6.0	33000		8633.4
20-Oct-16 01:45:00	28	4.1	332	32	96	100	7.0	4.00	6.0	33000		8634.4
20-Oct-16 02:00:00	28	4.2	336	32	94	100	7.0	4.00	6.0	33000		8635.5
20-Oct-16 02:15:00	28	4.1	336	31	94	100	7.0	4.00	6.0	33000		8636.5
20-Oct-16 02:30:00	28	4.2	335	31	96	100	7.0	4.00	6.0	33000		8637.5
20-Oct-16 02:45:00	28	4.3	332	31	96	100	7.0	4.00	6.0	33000		8638.6
20-Oct-16 03:00:00	Pumped 59.8 bbls from tank to the pond.											
20-Oct-16 03:00:00	28	4.1	329	31	96	100	7.0	4.00	6.0	33000		8639.6
20-Oct-16 03:15:00	28	3.9	332	31	96	100	7.0	4.00	6.0	33000		8640.6
20-Oct-16 03:30:00	28	4.1	329	31	97	100	7.0	4.00	6.0	33000		8641.7
20-Oct-16 03:45:00	28	4.1	334	31	96	100	7.0	4.00	6.0	33000		8642.7
20-Oct-16 04:00:00	28	4.1	337	31	96	100	7.0	4.00	6.0	33000		8643.7
20-Oct-16 04:15:00	28	4.0	336	31	96	100	7.0	4.00	6.0	33000		8645.1
20-Oct-16 04:30:00	28	4.1	331	31	96	100	7.0	4.00	6.0	33000		8646.5
20-Oct-16 04:45:00	28	5.4	333	31	96	100	7.0	4.00	6.0	33000		8647.9
20-Oct-16 05:00:00	BSW 100% no solids, H2S 6ppm, CO2 4%, Gas SG=0.646.											
20-Oct-16 05:00:00	Electrical Conductivity=51.5mS@21.5DegC,Water Density=1015.9kg/m3@23.5DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-169.4mV2, Salinity=33000											
20-Oct-16 05:00:00	28	4.4	332	31	97	100	7.0	4.00	6.0	33000		8649.3
20-Oct-16 05:15:00	28	3.9	332	31	96	100	7.0	4.00	6.0	33000		8650.4
20-Oct-16 05:30:00	28	6.9	334	31	96	100	7.0	4.00	6.0	33000		8651.6
20-Oct-16 05:45:00	28	6.9	332	30	97	100	7.0	4.00	6.0	33000		8652.7
20-Oct-16 06:00:00	28	6.9	327	31	97	100	7.0	4.00	6.0	33000		8653.9
20-Oct-16 06:15:00	28	6.7	330	31	97	100	7.0	4.00	6.0	33000		8655.0
20-Oct-16 06:30:00	28	6.9	337	31	96	100	7.0	4.00	6.0	33000		8656.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Oct-16 06:45:00	28	3.9	336	32	96	100	7.0	4.00	6.0	33000		8657.3
20-Oct-16 07:00:00	28	4.0	330	33	96	100	7.0	4.00	6.0	37000		8658.5
20-Oct-16 07:01:00	WHP started to drop, well slugging.											
20-Oct-16 07:08:00	Water on surface, took sample. BSW=100% no solids.											
20-Oct-16 07:15:00	28	3.6	388	34	106	100	7.0	4.00	6.0	37000		8660.0
20-Oct-16 07:30:00	28	3.7	375	35	109	100	7.0	4.00	6.0	37000		8661.5
20-Oct-16 07:45:00	28	0.6	330	35	93	100	7.0	4.00	6.0	37000		8662.9
20-Oct-16 08:00:00	28	0.7	342	36	99	100	7.0	4.00	6.0	37000		8664.4
20-Oct-16 08:15:00	28	0.5	339	36	95	100	7.0	4.00	6.0	37000		8665.4
20-Oct-16 08:30:00	VX computer preparing forced re-boot, prepare back up laptop.											
20-Oct-16 08:30:00	28	0.6	335	36	98	100	7.0	4.00	6.0	37000		8666.3
20-Oct-16 08:45:00	28	-2.0	338	37	95	100	7.0	4.00	6.0	37000		8667.2
20-Oct-16 09:00:00	VX computer re-booting.											
20-Oct-16 09:00:00	28	-2.6	336	38	96	100	7.0	4.00	6.0	37000		8668.1
20-Oct-16 09:15:00	28	-2.4	337	38	95	100	7.0	4.00	6.0	37000		8077.2
20-Oct-16 09:22:00	VX computer up and running, re-connect to interact.											
20-Oct-16 09:30:00	28	-2.1	339	38	98	100	7.0	4.00	6.0	37000		7486.3
20-Oct-16 09:45:00	28	-2.3	336	39	96	100	7.0	4.00	6.0	37000		6895.5
20-Oct-16 09:48:00	Lowered 1.750" orifice plate.											
20-Oct-16 09:49:00	MP on 28/64" Fixed Choke.											
20-Oct-16 09:50:00	Gas SG = 0.646.											
20-Oct-16 10:00:00	28	-2.1	342	39	99	100	7.0	4.00	6.0	37000	0.970	6304.6
20-Oct-16 10:15:00	28	-2.1	332	39	96	100	7.0	4.00	6.0	37000	0.971	6897.8
20-Oct-16 10:30:00	28	-2.1	341	39	95	100	7.0	4.00	6.0	37000	0.962	7490.9
20-Oct-16 10:45:00	28	-2.1	339	39	98	100	7.0	4.00	6.0	37000	0.966	8084.1
20-Oct-16 11:00:00	BSW dry, no solids, H2S 4ppm, CO2 3%, Gas SG= 0.640.											
20-Oct-16 11:00:00	28	-2.3	340	39	96	100	7.0	3.00	4.0	37000	0.964	8677.3
20-Oct-16 11:03:27	Checked barton scrubbers for carry over.											
20-Oct-16 11:15:00	28	-2.1	340	39	98	100	7.0	3.00	4.0	37000	0.961	8678.5
20-Oct-16 11:30:00	28	-2.1	338	39	98	100	7.0	3.00	4.0	37000	0.965	8679.6
20-Oct-16 11:45:00	28	-2.3	344	40	98	100	7.0	3.00	4.0	37000	0.962	8680.8
20-Oct-16 12:00:00	28	-2.1	342	40	98	100	7.0	3.00	4.0	37000	0.972	8681.9
20-Oct-16 12:15:00	28	-4.2	341	40	98	100	7.0	3.00	4.0	37000	0.957	8683.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Oct-16 12:30:00	28	-2.2	337	40	98	100	7.0	3.00	4.0	37000	0.968	8684.4
20-Oct-16 12:45:00	28	-2.1	344	40	99	100	7.0	3.00	4.0	37000	0.958	8685.7
20-Oct-16 12:51:00	Raised 1.750" orifice plate.											
20-Oct-16 12:51:00	End of MP.											
20-Oct-16 12:52:00	Switched to 28/64" adjustable choke.											
20-Oct-16 12:52:00	End of FP #1.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #2 EPT Flow - Data

Flow on 32/64" Fixed Choke

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Oct-16 12:53:00	FP #2 Extended Production Test Flow on 32/64" Fixed Choke.											
20-Oct-16 12:53:00	Increased to 30/64" adjustable choke.											
20-Oct-16 12:53:00	30	-5.1	342	40	97	100	7.0	3.00	4.0	37000		8686.4
20-Oct-16 13:00:00	30	-4.1	278	40	95	100	7.0	3.00	4.0	37000		8687.0
20-Oct-16 13:15:00	30	-1.9	286	40	94	100	7.0	3.00	4.0	37000		8688.2
20-Oct-16 13:30:00	30	-2.1	280	40	94	100	7.0	3.00	4.0	37000		8689.5
20-Oct-16 13:45:00	30	-2.1	286	40	95	100	7.0	3.00	4.0	37000		8690.8
20-Oct-16 13:51:00	Increased to 32/64" adjustable choke.											
20-Oct-16 13:57:31	Switched to 32/64" fixed choke.											
20-Oct-16 14:00:00	32	-1.9	266	40	94	100	7.0	3.00	4.0	37000		8692.0
20-Oct-16 14:15:00	32	-2.2	284	40	96	100	7.0	3.00	4.0	37000		8693.3
20-Oct-16 14:30:00	32	-2.1	270	40	95	100	7.0	3.00	4.0	37000		8694.6
20-Oct-16 14:45:00	32	-2.1	277	40	96	100	7.0	3.00	4.0	37000		8695.8
20-Oct-16 15:00:00	BSW dry no solids.											
20-Oct-16 15:00:00	32	-2.1	271	40	96	100	7.0	3.00	4.0	37000		8697.1
20-Oct-16 15:15:00	32	-2.1	274	40	95	100	7.0	3.00	4.0	37000		8698.3
20-Oct-16 15:30:00	32	-2.1	272	40	95	100	7.0	3.00	4.0	37000		8699.4
20-Oct-16 15:36:00	Lowered 1.750" Orifice Plate.											
20-Oct-16 15:38:00	MP on 32/64" Fixed Choke.											
20-Oct-16 15:40:00	32/64" Fixed Choke, 1.750" Orifice Plate, Gas SG=0.640.											
20-Oct-16 15:45:00	32	-2.1	273	39	97	100	7.0	3.00	4.0	37000	1.014	8700.6
20-Oct-16 16:00:00	32	-2.1	271	38	98	100	7.0	3.00	4.0	37000	1.021	8701.7
20-Oct-16 16:10:00	Pumped 62.4 bbls from tank to pond.											
20-Oct-16 16:15:00	32	-2.1	270	38	96	100	7.0	3.00	4.0	37000	1.022	8702.9
20-Oct-16 16:30:00	32	-2.3	269	38	96	100	7.0	3.00	4.0	37000	1.013	8704.0
20-Oct-16 16:45:00	32	-2.1	269	39	97	100	7.0	3.00	4.0	37000	1.016	8705.1
20-Oct-16 17:00:00	BSW=100%, trace of solids, H2S 6ppm, CO2 4%, Gas SG = 0.642.											
20-Oct-16 17:00:00	Checked for carry over at barton scrubbers.											
20-Oct-16 17:00:00	32	-1.9	266	38	98	100	7.0	4.00	6.0	38000	1.010	8706.3
20-Oct-16 17:01:00	Took Isotube Sample #32 from separator gas line at 86 psia 40degC.											
20-Oct-16 17:01:00	Electrical Conductivity=62.58mS@31degC,Water Density=1014.5kg/m3@30.6DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-183.4mV2, Salinity=38000p											
20-Oct-16 17:15:00	32	-1.9	263	37	98	100	7.0	4.00	6.0	38000	1.012	8707.6
20-Oct-16 17:30:00	32	-2.1	267	37	96	100	7.0	4.00	6.0	38000	1.008	8708.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Oct-16 17:45:00	32	-1.9	265	36	98	100	7.0	4.00	6.0	38000	1.019	8710.1
20-Oct-16 18:00:00	32	-1.9	264	36	98	100	7.0	4.00	6.0	38000	1.013	8711.4
20-Oct-16 18:15:00	32	-1.8	269	36	96	100	7.0	4.00	6.0	38000	1.013	8712.5
20-Oct-16 18:30:00	32	-1.7	267	36	98	100	7.0	4.00	6.0	38000	1.020	8713.7
20-Oct-16 18:45:00	32	0.9	264	35	96	100	7.0	4.00	6.0	38000	1.018	8714.8
20-Oct-16 19:00:00	32	1.0	269	35	96	100	7.0	4.00	6.0	38000	1.023	8716.0
20-Oct-16 19:01:00	Wellhead pressure dropping, slug coming.											
20-Oct-16 19:02:00	Lifted 1.750" Orifice Plate.											
20-Oct-16 19:02:00	End of MP.											
20-Oct-16 19:03:00	Slug: BSW=100% no trace of solids, waiting for well stabilization.											
20-Oct-16 19:15:00	32	1.0	243	34	83	100	7.0	4.00	6.0	38000		8717.2
20-Oct-16 19:30:00	32	0.8	285	34	104	100	7.0	4.00	6.0	38000		8718.5
20-Oct-16 19:45:00	32	1.1	267	34	95	100	7.0	4.00	6.0	38000		8719.8
20-Oct-16 20:00:00	32	1.4	263	34	96	100	7.0	4.00	6.0	38000		8721.0
20-Oct-16 20:15:00	32	1.0	264	34	95	100	7.0	4.00	6.0	38000		8722.1
20-Oct-16 20:30:00	32	1.0	263	34	95	100	7.0	4.00	6.0	38000		8723.1
20-Oct-16 20:45:00	32	1.0	265	34	95	100	7.0	4.00	6.0	38000		8724.1
20-Oct-16 21:00:00	32	1.0	260	34	95	100	7.0	4.00	6.0	38000		8725.2
20-Oct-16 21:15:00	32	1.0	266	34	95	100	7.0	4.00	6.0	38000		8726.4
20-Oct-16 21:30:00	32	1.2	261	33	95	100	7.0	4.00	6.0	38000		8727.7
20-Oct-16 21:45:00	32	0.9	263	33	95	100	7.0	4.00	6.0	38000		8729.0
20-Oct-16 22:00:00	32	1.1	269	33	95	100	7.0	4.00	6.0	38000		8730.2
20-Oct-16 22:15:00	32	1.0	263	33	94	100	7.0	4.00	6.0	38000		8731.5
20-Oct-16 22:30:00	32	0.8	262	33	95	100	7.0	4.00	6.0	38000		8732.8
20-Oct-16 22:45:00	32	1.1	263	33	95	100	7.0	4.00	6.0	38000		8734.0
20-Oct-16 23:00:00	BSW=100%, no trace, H2S 5ppm, CO2 3%, Gas SG = 0.644.											
20-Oct-16 23:00:00	Electrical Conductivity=56.35mS@25.1degC,Water Density=1014.5kg/m3@28.6DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-161.1mV2, Salinity=3000											
20-Oct-16 23:00:00	32	0.8	265	33	95	100	7.0	3.00	5.0	30000		8735.3
20-Oct-16 23:08:00	Lowered 1.750" Orifice Plate.											
20-Oct-16 23:09:00	Orifice plate stuck in middle compartment.											
20-Oct-16 23:15:00	32	2.3	268	33	93	100	7.0	3.00	5.0	30000		8736.2
20-Oct-16 23:24:00	Bypassing the separator.											
20-Oct-16 23:30:00	Skew plate re-centred.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Oct-16 23:30:00	32	2.0	264	33	33	100	7.0	3.00	5.0	30000		8737.1
20-Oct-16 23:37:00	Putting separator back online, closing bypass.											
20-Oct-16 23:39:00	Separator back online.											
20-Oct-16 23:45:00	32	4.1	263	33	106	100	7.0	3.00	5.0	30000		8738.0
20-Oct-16 23:50:00	Flow stabilized, dropping 1.750" Orifice Plate.											
20-Oct-16 23:55:00	MP on 32/64" Fixed Choke.											
21-Oct-16 00:00:00	32	4.0	263	32	107	100	7.0	3.00	5.0	30000	1.062	8739.0
21-Oct-16 00:10:00	From Vx manifold: Gas SG = 0.644.											
21-Oct-16 00:15:00	32	4.1	264	33	108	100	7.0	3.00	5.0	30000	1.069	8740.2
21-Oct-16 00:30:00	32	4.0	259	32	109	100	7.0	3.00	5.0	30000	1.073	8741.5
21-Oct-16 00:45:00	32	4.1	259	32	108	100	7.0	3.00	5.0	30000	1.073	8742.8
21-Oct-16 01:00:00	32	3.9	264	32	108	100	7.0	3.00	5.0	30000	1.063	8744.0
21-Oct-16 01:15:00	32	4.2	267	32	108	100	7.0	3.00	5.0	30000	1.066	8745.3
21-Oct-16 01:30:00	Checked for carry over at barton scrubbers.											
21-Oct-16 01:30:00	32	3.9	264	33	109	100	7.0	3.00	5.0	30000	1.071	8746.5
21-Oct-16 01:45:00	32	4.1	259	33	108	100	7.0	3.00	5.0	30000	1.067	8747.8
21-Oct-16 02:00:00	32	3.9	260	33	109	100	7.0	3.00	5.0	30000	1.071	8749.1
21-Oct-16 02:15:00	32	4.0	264	33	108	100	7.0	3.00	5.0	30000	1.069	8750.2
21-Oct-16 02:30:00	32	3.9	259	33	108	100	7.0	3.00	5.0	30000	1.072	8751.4
21-Oct-16 02:45:00	32	4.1	266	33	109	100	7.0	3.00	5.0	30000	1.072	8752.5
21-Oct-16 03:00:00	32	4.0	260	33	109	100	7.0	3.00	5.0	30000	1.072	8753.7
21-Oct-16 03:15:00	32	4.1	264	33	109	100	7.0	3.00	5.0	30000	1.074	8754.8
21-Oct-16 03:30:00	32	4.1	266	32	108	100	7.0	3.00	5.0	30000	1.069	8756.0
21-Oct-16 03:45:00	32	3.9	264	33	109	100	7.0	3.00	5.0	30000	1.075	8757.1
21-Oct-16 04:00:00	32	3.9	260	33	108	100	7.0	3.00	5.0	30000	1.071	8758.3
21-Oct-16 04:15:00	32	4.1	265	33	109	100	7.0	3.00	5.0	30000	1.071	8759.4
21-Oct-16 04:30:00	32	3.9	262	33	109	100	7.0	3.00	5.0	30000	1.068	8760.6
21-Oct-16 04:45:00	32	4.0	258	33	109	100	7.0	3.00	5.0	30000	1.072	8761.7
21-Oct-16 05:00:00	BSW=100%, no trace, H2S 5ppm, CO2 3.5%, Gas SG = 0.644.											
21-Oct-16 05:00:00	Electrical Conductivity=54.55mS@23.8C,Water Density=1014.6kg/m3@27.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-158.7mV2, Salinity=30000pp											
21-Oct-16 05:00:00	Pumped 62.24 bbls from tank to the pond.											
21-Oct-16 05:00:00	32	4.1	261	33	111	100	7.0	3.50	5.0	30000	1.066	8762.9
21-Oct-16 05:08:36	Checked for carry over at barton scrubbers.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
21-Oct-16 05:15:00	32	4.1	258	33	111	100	7.0	3.50	5.0	30000	1.066	8764.1
21-Oct-16 05:30:00	32	4.1	258	33	110	100	7.0	3.50	5.0	30000	1.065	8765.4
21-Oct-16 05:45:00	32	4.1	264	33	109	100	7.0	3.50	5.0	30000	1.066	8766.7
21-Oct-16 06:00:00	32	4.0	257	33	109	100	7.0	3.50	5.0	30000	1.069	8767.9
21-Oct-16 06:15:00	32	4.1	266	33	109	100	7.0	3.50	5.0	30000	1.065	8769.0
21-Oct-16 06:30:00	32	3.9	263	33	111	100	7.0	3.50	5.0	30000	1.071	8770.0
21-Oct-16 06:30:08	Checked for carry over at barton scrubbers.											
21-Oct-16 06:45:00	32	3.9	264	33	111	100	7.0	3.50	5.0	30000	1.055	8771.0
21-Oct-16 07:00:00	32	4.1	258	32	109	100	7.0	3.50	5.0	30000	1.052	8772.1
21-Oct-16 07:01:58	Checked for carry over at barton scrubbers.											
21-Oct-16 07:15:00	32	3.9	263	33	109	100	7.0	3.50	5.0	30000	1.050	8773.5
21-Oct-16 07:30:00	32	3.9	262	33	109	100	7.0	3.50	5.0	30000	1.052	8774.8
21-Oct-16 07:45:00	32	4.1	262	33	109	100	7.0	3.50	5.0	30000	1.055	8776.2
21-Oct-16 08:00:00	32	3.8	259	33	111	100	7.0	3.50	5.0	30000	1.056	8777.6
21-Oct-16 08:01:04	Checked for carry over at barton scrubbers.											
21-Oct-16 08:15:00	32	3.9	260	33	109	100	7.0	3.50	5.0	30000	1.047	8778.8
21-Oct-16 08:30:00	32	1.0	261	33	110	100	7.0	3.50	5.0	30000	1.052	8779.9
21-Oct-16 08:45:00	32	1.7	260	34	111	100	7.0	3.50	5.0	30000	1.056	8781.1
21-Oct-16 08:58:08	Checked for carry over at barton scrubbers.											
21-Oct-16 09:00:00	32	0.8	263	34	111	100	7.0	3.50	5.0	30000	1.033	8782.2
21-Oct-16 09:15:00	32	0.6	260	34	111	100	7.0	3.50	5.0	30000	1.055	8783.2
21-Oct-16 09:30:00	32	0.6	262	36	109	100	7.0	3.50	5.0	30000	1.051	8784.3
21-Oct-16 09:45:00	32	0.8	264	36	111	100	7.0	3.50	5.0	30000	1.052	8785.3
21-Oct-16 09:49:56	Checked for carry over at barton scrubbers.											
21-Oct-16 10:00:00	Gas SG 0.640.											
21-Oct-16 10:00:00	32	0.6	260	37	111	100	7.0	3.50	5.0	30000	1.047	8786.3
21-Oct-16 10:15:00	32	-1.0	266	38	111	100	7.0	3.50	5.0	30000	1.046	8787.6
21-Oct-16 10:30:00	32	-2.2	260	39	111	100	7.0	3.50	5.0	30000	1.050	8788.9
21-Oct-16 10:45:00	32	-2.3	263	39	111	100	7.0	3.50	5.0	30000	1.052	8790.1
21-Oct-16 11:00:00	BSW dry, no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.											
21-Oct-16 11:00:00	32	-2.1	265	39	110	100	7.0	4.00	6.0	30000	1.039	8791.4
21-Oct-16 11:15:00	32	-2.3	264	39	102	100	7.0	4.00	6.0	30000	1.040	8792.7
21-Oct-16 11:30:00	32	-2.2	264	40	104	100	7.0	4.00	6.0	30000	1.032	8793.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
21-Oct-16 11:45:00	32	-2.1	271	40	104	100	7.0	4.00	6.0	30000	1.031	8795.2
21-Oct-16 11:46:00	WHP dropping, well slugging.											
21-Oct-16 11:48:00	Raised 1.75" orifice plate											
21-Oct-16 11:48:00	End of MP.											
21-Oct-16 12:00:00	32	-2.3	306	40	103	100	7.0	4.00	6.0	30000		8796.5
21-Oct-16 12:15:00	32	-2.1	266	39	105	100	7.0	4.00	6.0	30000		8797.7
21-Oct-16 12:30:00	32	-2.1	272	39	99	100	7.0	4.00	6.0	30000		8799.0
21-Oct-16 12:45:00	32	-2.1	258	40	100	100	7.0	4.00	6.0	30000		8800.3
21-Oct-16 13:00:00	32	-2.3	264	40	99	100	7.0	4.00	6.0	30000		8801.5
21-Oct-16 13:15:00	32	-2.1	267	39	101	100	7.0	4.00	6.0	30000		8802.6
21-Oct-16 13:30:00	32	-2.1	262	39	99	100	7.0	4.00	6.0	30000		8803.6
21-Oct-16 13:45:00	32	-1.9	262	39	98	100	7.0	4.00	6.0	30000		8804.6
21-Oct-16 14:00:00	32	-2.1	267	39	99	100	7.0	4.00	6.0	30000		8805.7
21-Oct-16 14:15:00	32	-2.3	263	40	99	100	7.0	4.00	6.0	30000		8806.7
21-Oct-16 14:30:00	32	-2.1	266	39	99	100	7.0	4.00	6.0	30000		8807.8
21-Oct-16 14:45:00	32	-2.3	261	39	99	100	7.0	4.00	6.0	30000		8808.8
21-Oct-16 15:00:00	Gas SG 0.640.											
21-Oct-16 15:00:00	32	-2.2	268	39	98	100	7.0	4.00	6.0	30000		8809.8
21-Oct-16 15:15:00	32	-2.1	266	39	99	100	7.0	4.00	6.0	30000		8811.0
21-Oct-16 15:18:00	Lowered 1.75" Orifice Plate.											
21-Oct-16 15:23:00	MP on 32/64" Fixed Choke.											
21-Oct-16 15:30:00	32	-2.0	262	39	99	100	7.0	4.00	6.0	30000	1.033	8812.1
21-Oct-16 15:45:00	32	-2.1	263	40	99	100	7.0	4.00	6.0	30000	1.003	8813.3
21-Oct-16 16:00:00	32	-2.1	270	39	101	100	7.0	4.00	6.0	30000	1.011	8814.4
21-Oct-16 16:10:00	Pumped 47.46 bbl from tank to pond.											
21-Oct-16 16:15:00	32	-1.9	261	38	101	100	7.0	4.00	6.0	30000	1.011	8815.5
21-Oct-16 16:30:00	32	-1.9	264	38	101	100	7.0	4.00	6.0	30000	1.012	8816.5
21-Oct-16 16:45:00	32	-2.1	258	37	102	100	7.0	4.00	6.0	30000	1.019	8817.6
21-Oct-16 17:00:00	Took Iso Sample#33 from separator gas line 90.9psia @ 38.7 degC.											
21-Oct-16 17:00:00	32	-1.9	261	37	102	100	7.0	4.00	6.0	32000	1.016	8818.6
21-Oct-16 17:00:01	Electrical Conductivity=62.73mS@27.5degC,Water Density=1015.6kg/m3@31DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-178mV2, Salinity=32000pp											
21-Oct-16 17:01:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.											
21-Oct-16 17:15:00	32	-1.9	259	37	101	100	7.0	4.00	6.0	32000	1.012	8819.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
21-Oct-16 17:30:00	32	-1.8	262	37	102	100	7.0	4.00	6.0	32000	1.019	8820.7
21-Oct-16 17:45:00	32	-1.9	266	36	102	100	7.0	4.00	6.0	32000	1.017	8821.7
21-Oct-16 18:00:00	32	1.2	255	34	101	100	7.0	4.00	6.0	32000	1.028	8822.7
21-Oct-16 18:15:00	32	1.2	263	33	101	100	7.0	4.00	6.0	32000	1.025	8823.8
21-Oct-16 18:30:00	InterACT lost connection, stopping OPC.											
21-Oct-16 18:30:00	32	1.2	262	33	101	100	7.0	4.00	6.0	32000	1.028	8824.8
21-Oct-16 18:45:00	32	1.2	263	33	101	100	7.0	4.00	6.0	32000	1.027	8825.8
21-Oct-16 19:00:00	Dart crashed, InterACT connection already lost.											
21-Oct-16 19:00:00	32	1.1	260	32	101	100	7.0	4.00	6.0	32000	1.029	8826.9
21-Oct-16 19:01:00	Dart back online, InterACT connection re-established.											
21-Oct-16 19:15:00	32	4.1	255	33	100	100	7.0	4.00	6.0	32000	1.027	8828.3
21-Oct-16 19:30:00	32	4.0	258	33	100	100	7.0	4.00	6.0	32000	1.028	8829.6
21-Oct-16 19:45:00	32	1.8	263	32	101	100	7.0	4.00	6.0	32000	1.025	8831.0
21-Oct-16 20:00:00	32	4.3	259	32	101	100	7.0	4.00	6.0	32000	1.030	8832.4
21-Oct-16 20:15:00	32	4.0	261	32	102	100	7.0	4.00	6.0	32000	1.028	8833.5
21-Oct-16 20:30:00	32	4.3	254	31	102	100	7.0	4.00	6.0	32000	1.039	8834.7
21-Oct-16 20:45:00	32	4.1	258	31	100	100	7.0	4.00	6.0	32000	1.026	8835.9
21-Oct-16 21:00:00	32	3.8	255	31	102	100	7.0	4.00	6.0	32000	1.030	8837.0
21-Oct-16 21:15:00	32	3.9	260	32	101	100	7.0	4.00	6.0	32000	1.028	8838.1
21-Oct-16 21:30:00	32	4.1	261	32	100	100	7.0	4.00	6.0	32000	1.028	8839.3
21-Oct-16 21:45:00	32	4.2	259	31	101	100	7.0	4.00	6.0	32000	1.033	8840.5
21-Oct-16 22:00:00	32	4.2	256	31	102	100	7.0	4.00	6.0	32000	1.032	8841.6
21-Oct-16 22:15:00	32	4.0	259	31	101	100	7.0	4.00	6.0	32000	1.030	8842.8
21-Oct-16 22:30:00	32	4.1	258	31	100	100	7.0	4.00	6.0	32000	1.031	8843.9
21-Oct-16 22:45:00	32	4.5	251	29	102	100	7.0	4.00	6.0	32000	1.036	8845.1
21-Oct-16 23:00:00	From Vx manifold: Electrical Conductivity=53.37mS@23degC,Water Density=1015.6kg/m3@25DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-168.4mV2, Salinity=25000ppm.											
21-Oct-16 23:00:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.642.											
21-Oct-16 23:00:00	32	4.0	259	29	100	100	7.0	4.00	6.0	25000	1.030	8846.2
21-Oct-16 23:15:00	32	4.0	259	30	100	100	7.0	4.00	6.0	25000	1.021	8847.4
21-Oct-16 23:20:00	Checked for carry over at barton scrubbers.											
21-Oct-16 23:30:00	32	3.9	256	30	100	100	7.0	4.00	6.0	25000	1.028	8848.5
21-Oct-16 23:45:00	32	4.4	254	30	102	100	7.0	4.00	6.0	25000	1.028	8849.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Oct-16 00:00:00	32	4.0	254	30	101	100	7.0	4.00	6.0	25000	1.030	8850.8
22-Oct-16 00:15:00	32	4.4	257	30	101	100	7.0	4.00	6.0	25000	1.030	8851.9
22-Oct-16 00:30:00	32	4.1	255	30	101	100	7.0	4.00	6.0	25000	1.027	8853.1
22-Oct-16 00:45:00	32	4.1	255	30	102	100	7.0	4.00	6.0	25000	1.034	8854.3
22-Oct-16 01:00:00	Changed propane gas bottle feeding the flare.											
22-Oct-16 01:00:00	32	4.3	261	30	102	100	7.0	4.00	6.0	25000	1.028	8855.4
22-Oct-16 01:15:00	32	3.8	253	30	100	100	7.0	4.00	6.0	25000	1.036	8856.5
22-Oct-16 01:30:00	32	3.9	260	30	102	100	7.0	4.00	6.0	25000	1.030	8857.7
22-Oct-16 01:45:00	32	4.0	261	30	100	100	7.0	4.00	6.0	25000	1.035	8858.9
22-Oct-16 02:00:00	32	4.1	255	30	101	100	7.0	4.00	6.0	25000	1.035	8860.0
22-Oct-16 02:07:00	Checked for carry over at barton scrubbers.											
22-Oct-16 02:15:00	32	4.1	259	30	102	100	7.0	4.00	6.0	25000	1.011	8861.2
22-Oct-16 02:30:00	32	4.1	249	31	102	100	7.0	4.00	6.0	25000	1.039	8862.3
22-Oct-16 02:45:00	32	4.3	258	30	100	100	7.0	4.00	6.0	25000	1.029	8863.5
22-Oct-16 03:00:00	32	3.8	259	30	101	100	7.0	4.00	6.0	25000	1.034	8864.6
22-Oct-16 03:15:00	32	4.5	255	31	100	100	7.0	4.00	6.0	25000	1.034	8865.8
22-Oct-16 03:30:00	32	4.5	259	31	102	100	7.0	4.00	6.0	25000	1.034	8866.9
22-Oct-16 03:45:00	Started raining outside.											
22-Oct-16 03:45:00	32	4.1	260	30	102	100	7.0	4.00	6.0	25000	1.030	8868.1
22-Oct-16 03:55:00	Slug at surface.											
22-Oct-16 04:00:00	32	4.5	241	30	96	100	7.0	4.00	6.0	25000	1.010	8869.2
22-Oct-16 04:15:00	32	4.2	271	28	108	100	7.0	4.00	6.0	25000	1.053	8870.4
22-Oct-16 04:30:00	32	4.1	259	28	100	100	7.0	4.00	6.0	25000	1.052	8871.5
22-Oct-16 04:45:00	32	4.2	256	29	103	100	7.0	4.00	6.0	25000	1.050	8872.6
22-Oct-16 05:00:00	From Vx manifold: Electrical Conductivity=54.17mS@23.3degC,Water Density=1015.4kg/m3@25.1DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-173.4mV2, Salinity=27000ppm.											
22-Oct-16 05:00:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.642.											
22-Oct-16 05:00:00	32	6.3	254	30	102	100	7.0	4.00	6.0	27000	1.046	8873.8
22-Oct-16 05:10:00	Pumped 58.88 bbls from tank to the pond.											
22-Oct-16 05:15:00	32	4.1	263	30	101	100	7.0	4.00	6.0	27000	1.036	8874.9
22-Oct-16 05:30:00	32	4.2	254	31	102	100	7.0	4.00	6.0	27000	1.042	8876.1
22-Oct-16 05:45:00	32	4.5	255	30	103	100	7.0	4.00	6.0	27000	1.038	8877.3
22-Oct-16 06:00:00	32	3.8	254	30	102	100	7.0	4.00	6.0	27000	1.040	8878.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Oct-16 06:15:00	32	3.9	258	31	102	100	7.0	4.00	6.0	27000	1.031	8879.5
22-Oct-16 06:30:00	32	4.1	257	31	102	100	7.0	4.00	6.0	27000	1.040	8880.7
22-Oct-16 06:45:00	32	3.9	261	30	102	100	7.0	4.00	6.0	27000	1.036	8881.9
22-Oct-16 07:00:00	32	3.9	256	30	102	100	7.0	4.00	6.0	27000	1.041	8883.0
22-Oct-16 07:00:42	Checked barton scrubbers for carry over.											
22-Oct-16 07:15:00	32	4.2	251	28	103	100	7.0	4.00	6.0	27000	1.032	8884.2
22-Oct-16 07:30:00	32	4.1	259	28	102	100	7.0	4.00	6.0	27000	1.033	8885.3
22-Oct-16 07:45:00	32	6.8	258	28	100	100	7.0	4.00	6.0	27000	1.041	8886.5
22-Oct-16 08:00:00	Gas SG 0.640.											
22-Oct-16 08:00:00	32	6.9	258	28	103	100	7.0	4.00	6.0	27000	1.040	8887.6
22-Oct-16 08:10:38	Checked for carry over on barton scrubbers.											
22-Oct-16 08:15:00	32	7.0	253	29	101	100	7.0	4.00	6.0	27000	1.028	8888.8
22-Oct-16 08:30:00	32	4.3	254	30	103	100	7.0	4.00	6.0	27000	1.040	8889.9
22-Oct-16 08:45:00	32	4.3	255	31	102	100	7.0	4.00	6.0	27000	1.040	8891.1
22-Oct-16 09:00:00	32	4.2	252	30	103	100	7.0	4.00	6.0	27000	1.037	8892.2
22-Oct-16 09:05:18	Checked for carry over on barton scrubbers.											
22-Oct-16 09:15:00	32	4.1	254	30	103	100	7.0	4.00	6.0	27000	1.037	8893.2
22-Oct-16 09:30:00	32	4.1	252	31	102	100	7.0	4.00	6.0	27000	1.036	8894.3
22-Oct-16 09:45:00	32	3.9	258	31	102	100	7.0	4.00	6.0	27000	1.042	8895.3
22-Oct-16 10:00:00	32	3.9	257	31	102	100	7.0	4.00	6.0	27000	1.042	8896.4
22-Oct-16 10:03:49	Checked for carry over on barton scrubbers.											
22-Oct-16 10:15:00	32	4.3	257	32	100	100	7.0	4.00	6.0	27000	1.029	8897.6
22-Oct-16 10:30:00	32	3.8	263	32	103	100	7.0	4.00	6.0	27000	1.034	8898.9
22-Oct-16 10:45:00	32	3.8	261	33	103	100	7.0	4.00	6.0	27000	1.041	8900.2
22-Oct-16 11:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.640.											
22-Oct-16 11:00:00	32	3.9	255	33	102	100	7.0	4.00	7.0	25000	1.039	8901.4
22-Oct-16 11:00:01	Took ALS samples from separator oil line, PH 7, 26.6degC, Electrical Conductivity 57.14mS cumulative 8901bbls.											
22-Oct-16 11:01:00	Water sample from VX=Electrical Conductivity=56.7mS@26degC,Water Density=1014kg/m3@29DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-125.9mV2, Salinity=25000ppm.											
22-Oct-16 11:07:09	Checked for carry over on barton scrubbers.											
22-Oct-16 11:15:00	32	3.9	257	33	102	100	7.0	4.00	7.0	25000	1.012	8902.5
22-Oct-16 11:30:00	32	3.8	259	32	102	100	7.0	4.00	7.0	25000	1.038	8903.5
22-Oct-16 11:45:00	32	4.3	257	32	102	100	7.0	4.00	7.0	25000	1.038	8904.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Oct-16 11:59:08	Checked for carry over on barton scrubbers.											
22-Oct-16 12:00:00	32	3.6	260	32	103	100	7.0	4.00	7.0	25000	1.034	8905.6
22-Oct-16 12:15:00	32	3.9	257	32	103	100	7.0	4.00	7.0	25000	1.039	8906.7
22-Oct-16 12:30:00	32	3.3	257	32	103	100	7.0	4.00	7.0	25000	1.040	8907.9
22-Oct-16 12:45:00	32	3.9	252	32	103	100	7.0	4.00	7.0	25000	1.043	8909.0
22-Oct-16 13:00:00	Gas SG 0.640.											
22-Oct-16 13:00:00	32	3.9	257	31	103	100	7.0	4.00	7.0	25000	1.037	8910.2
22-Oct-16 13:01:05	Checked for carry over on barton scrubbers.											
22-Oct-16 13:15:00	32	3.9	254	32	103	100	7.0	4.00	7.0	25000	1.034	8911.3
22-Oct-16 13:30:00	32	3.9	257	32	103	100	7.0	4.00	7.0	25000	1.037	8912.5
22-Oct-16 13:45:00	32	3.9	260	32	105	100	7.0	4.00	7.0	25000	1.042	8913.6
22-Oct-16 14:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 14:00:00	32	3.9	254	32	103	100	7.0	4.00	7.0	25000	1.044	8914.8
22-Oct-16 14:15:00	32	4.1	258	31	103	100	7.0	4.00	7.0	25000	1.033	8915.9
22-Oct-16 14:30:00	32	3.9	255	31	102	100	7.0	4.00	7.0	25000	1.044	8917.1
22-Oct-16 14:45:00	32	3.9	263	31	103	100	7.0	4.00	7.0	25000	1.038	8918.2
22-Oct-16 15:00:00	Gas SG 0.640.											
22-Oct-16 15:00:00	32	3.9	253	30	103	100	7.0	4.00	7.0	25000	1.048	8919.4
22-Oct-16 15:02:15	Checked for carry over on barton scrubbers.											
22-Oct-16 15:15:00	32	4.1	258	30	103	100	7.0	4.00	7.0	25000	1.039	8920.5
22-Oct-16 15:30:00	32	4.1	259	30	103	100	7.0	4.00	7.0	25000	1.045	8921.7
22-Oct-16 15:45:00	32	4.1	253	30	103	100	7.0	4.00	7.0	25000	1.046	8922.8
22-Oct-16 16:00:00	32	4.3	261	28	103	100	7.0	4.00	7.0	25000	1.043	8924.0
22-Oct-16 16:03:11	Checked for carry over on barton scrubbers.											
22-Oct-16 16:15:00	32	4.5	254	30	104	100	7.0	4.00	7.0	25000	1.043	8925.1
22-Oct-16 16:30:00	32	3.9	261	31	102	100	7.0	4.00	7.0	25000	1.042	8926.3
22-Oct-16 16:45:00	32	4.1	259	32	103	100	7.0	4.00	7.0	25000	1.049	8927.4
22-Oct-16 16:57:34	Checked for carry over on barton scrubbers.											
22-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
22-Oct-16 17:00:00	Took Isotube sample #34 from separator at 93psia 31degC.											
22-Oct-16 17:00:00	Water sample from VX=Electrical Conductivity=54.38 mS@23.2degC,Water Density=1015kg/m3@Deg29.5C, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-196.6mV2, Salinity=25000ppm.											
22-Oct-16 17:00:00	32	4.1	255	32	102	100	7.0	4.00	8.0	25000	1.033	8928.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Oct-16 17:10:00	Pumped 56.58 bbl from tank to pond.											
22-Oct-16 17:15:00	32	3.9	262	32	105	100	7.0	4.00	8.0	25000	1.037	8929.7
22-Oct-16 17:30:00	32	3.9	253	32	103	100	7.0	4.00	8.0	25000	1.049	8930.9
22-Oct-16 17:45:00	32	3.9	258	32	105	100	7.0	4.00	8.0	25000	1.044	8932.0
22-Oct-16 18:00:00	32	3.9	259	32	105	100	7.0	4.00	8.0	25000	1.039	8933.2
22-Oct-16 18:15:00	32	3.9	252	31	104	100	7.0	4.00	8.0	25000	1.048	8934.2
22-Oct-16 18:30:00	32	3.9	251	31	105	100	7.0	4.00	8.0	25000	1.046	8935.3
22-Oct-16 18:45:00	32	3.9	254	31	105	100	7.0	4.00	8.0	25000	1.046	8936.3
22-Oct-16 19:00:00	32	3.9	259	30	103	100	7.0	4.00	8.0	25000	1.047	8937.3
22-Oct-16 19:15:00	32	3.9	255	30	105	100	7.0	4.00	8.0	25000	1.046	8938.6
22-Oct-16 19:30:00	32	3.9	258	30	102	100	7.0	4.00	8.0	25000	1.039	8939.9
22-Oct-16 19:45:00	32	3.9	250	30	104	100	7.0	4.00	8.0	25000	1.041	8941.1
22-Oct-16 20:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 20:00:00	32	3.9	258	30	103	100	7.0	4.00	8.0	25000	1.040	8942.4
22-Oct-16 20:15:00	32	3.9	255	30	105	100	7.0	4.00	8.0	25000	1.024	8943.5
22-Oct-16 20:30:00	32	4.1	254	30	103	100	7.0	4.00	8.0	25000	1.037	8944.7
22-Oct-16 20:45:00	32	4.0	255	30	105	100	7.0	4.00	8.0	25000	1.040	8945.8
22-Oct-16 21:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 21:00:00	32	4.1	251	30	103	100	7.0	4.00	8.0	25000	1.051	8947.0
22-Oct-16 21:15:00	32	3.9	262	30	103	100	7.0	4.00	8.0	25000	1.009	8948.1
22-Oct-16 21:30:00	32	3.9	254	30	103	100	7.0	4.00	8.0	25000	1.046	8949.3
22-Oct-16 21:45:00	32	3.9	255	30	105	100	7.0	4.00	8.0	25000	1.040	8950.4
22-Oct-16 22:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 22:00:00	32	3.9	251	30	103	100	7.0	4.00	8.0	25000	1.048	8951.6
22-Oct-16 22:15:00	32	3.9	253	29	103	100	7.0	4.00	8.0	25000	1.032	8952.8
22-Oct-16 22:30:00	Slug at surface.											
22-Oct-16 22:30:00	32	3.9	254	29	105	100	7.0	4.00	8.0	25000	1.035	8954.1
22-Oct-16 22:45:00	32	6.4	276	29	103	100	7.0	4.00	8.0	25000	1.000	8955.4
22-Oct-16 23:00:00	Water sample from VX=Electrical Conductivity=55.68 mS@20.7degC,Water Density=1015.1kg/m3@Deg24.5C, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-198.1mV2, Salinity=27000ppm.											
22-Oct-16 23:00:00	BSW 100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.											
22-Oct-16 23:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 23:00:00	32	4.1	243	29	105	100	7.0	4.00	6.0	27000	1.098	8956.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Oct-16 23:15:00	32	6.9	259	28	105	100	7.0	4.00	6.0	27000	1.020	8957.6
22-Oct-16 23:30:00	32	6.9	252	28	105	100	7.0	4.00	6.0	27000	1.054	8958.5
22-Oct-16 23:45:00	32	6.9	253	28	105	100	7.0	4.00	6.0	27000	1.042	8959.4
23-Oct-16 00:00:00	Slug at surface.											
23-Oct-16 00:00:00	32	7.0	240	28	100	100	7.0	4.00	6.0	27000	1.040	8960.3
23-Oct-16 00:05:00	Checked for carry over on barton scrubbers.											
23-Oct-16 00:15:00	32	6.9	269	28	109	100	7.0	4.00	6.0	27000	1.038	8961.5
23-Oct-16 00:30:00	32	6.9	246	28	102	100	7.0	4.00	6.0	27000	1.061	8962.6
23-Oct-16 00:45:00	32	6.9	254	27	103	100	7.0	4.00	6.0	27000	1.056	8963.8
23-Oct-16 01:00:00	32	6.9	250	27	103	100	7.0	4.00	6.0	27000	1.043	8964.9
23-Oct-16 01:12:00	Checked for carry over on barton scrubbers.											
23-Oct-16 01:15:00	32	6.9	256	28	103	100	7.0	4.00	6.0	27000	1.050	8966.1
23-Oct-16 01:30:00	32	7.0	259	27	102	100	7.0	4.00	6.0	27000	1.041	8967.2
23-Oct-16 01:45:00	32	7.0	250	27	103	100	7.0	4.00	6.0	27000	1.051	8968.4
23-Oct-16 02:00:00	32	6.9	251	27	103	100	7.0	4.00	6.0	27000	1.046	8969.5
23-Oct-16 02:02:00	Checked for carry over on barton scrubbers.											
23-Oct-16 02:15:00	32	6.9	252	27	103	100	7.0	4.00	6.0	27000	1.039	8970.7
23-Oct-16 02:30:00	32	6.9	254	27	102	100	7.0	4.00	6.0	27000	1.045	8971.8
23-Oct-16 02:45:00	32	6.9	256	27	103	100	7.0	4.00	6.0	27000	1.044	8973.0
23-Oct-16 03:00:00	Checked for carry over on barton scrubbers.											
23-Oct-16 03:00:00	32	6.9	253	27	103	100	7.0	4.00	6.0	27000	1.046	8974.1
23-Oct-16 03:15:00	32	7.1	254	27	103	100	7.0	4.00	6.0	27000	1.039	8975.3
23-Oct-16 03:30:00	32	6.9	251	28	103	100	7.0	4.00	6.0	27000	1.051	8976.4
23-Oct-16 03:45:00	32	7.1	252	28	103	100	7.0	4.00	6.0	27000	1.044	8977.6
23-Oct-16 04:00:00	32	7.1	251	28	103	100	7.0	4.00	6.0	27000	1.045	8978.7
23-Oct-16 04:03:00	Checked for carry over on barton scrubbers.											
23-Oct-16 04:15:00	32	7.0	255	28	105	100	7.0	4.00	6.0	27000	1.033	8979.9
23-Oct-16 04:30:00	32	6.9	248	27	103	100	7.0	4.00	6.0	27000	1.047	8981.0
23-Oct-16 04:45:00	32	6.9	249	27	105	100	7.0	4.00	6.0	27000	1.054	8982.2
23-Oct-16 05:00:00	Water sample from VX=Electrical Conductivity=51.37mS@20.5degC,Water Density=1015.8kg/m3@Deg22.3C, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-182.3mV2, Salinity=27000ppm.											
23-Oct-16 05:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.640.											
23-Oct-16 05:00:00	32	6.9	258	27	102	100	7.0	4.00	7.0	27000	1.048	8983.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Oct-16 05:01:00	Checked for carry over on barton scrubbers.											
23-Oct-16 05:15:00	32	6.9	253	27	105	100	7.0	4.00	7.0	27000	1.042	8984.4
23-Oct-16 05:30:00	32	6.9	251	27	103	100	7.0	4.00	7.0	27000	1.050	8985.4
23-Oct-16 05:39:00	WHP dropping, well slugging. Raise Orifice Plate.											
23-Oct-16 05:39:00	End of MP.											
23-Oct-16 05:40:00	Slug at surface, collect sample.											
23-Oct-16 05:45:00	32	6.7	213	27	88	100	7.0	4.00	7.0	27000		8986.4
23-Oct-16 05:49:00	Slug sample results BSW 100% no solids.											
23-Oct-16 06:00:00	32	6.6	305	28	115	100	7.0	4.00	7.0	27000		8987.5
23-Oct-16 06:15:00	32	6.4	242	28	109	100	7.0	4.00	7.0	27000		8988.6
23-Oct-16 06:30:00	32	6.2	257	27	106	100	7.0	4.00	7.0	27000		8989.8
23-Oct-16 06:45:00	32	6.0	247	28	103	100	7.0	4.00	7.0	27000		8990.9
23-Oct-16 07:00:00	32	5.8	256	28	103	100	7.0	4.00	7.0	27000		8992.1
23-Oct-16 07:10:00	Pumped 64.63 bbls from tank to pond.											
23-Oct-16 07:15:00	32	5.6	248	29	103	100	7.0	4.00	7.0	27000		8993.1
23-Oct-16 07:30:00	32	5.5	248	28	103	100	7.0	4.00	7.0	27000		8994.1
23-Oct-16 07:45:00	32	5.3	252	28	103	100	7.0	4.00	7.0	27000		8995.1
23-Oct-16 08:00:00	32	5.1	251	28	103	100	7.0	4.00	7.0	27000		8996.1
23-Oct-16 08:15:00	32	4.9	252	28	102	100	7.0	4.00	7.0	27000		8997.3
23-Oct-16 08:30:00	32	4.7	254	29	102	100	7.0	4.00	7.0	27000		8998.6
23-Oct-16 08:45:00	32	4.5	252	29	103	100	7.0	4.00	7.0	27000		8999.9
23-Oct-16 09:00:00	32	4.4	255	30	102	100	7.0	4.00	7.0	27000		9001.1
23-Oct-16 09:15:00	32	4.2	257	31	103	100	7.0	4.00	7.0	27000		9002.2
23-Oct-16 09:30:00	32	4.0	257	32	103	100	7.0	4.00	7.0	27000		9003.2
23-Oct-16 09:45:00	32	3.8	251	32	103	100	7.0	4.00	7.0	27000		9004.2
23-Oct-16 10:00:00	32	3.6	253	33	103	100	7.0	4.00	7.0	27000		9005.3
23-Oct-16 10:15:00	32	3.4	254	33	103	100	7.0	4.00	7.0	27000		9006.3
23-Oct-16 10:30:00	32	3.3	256	34	103	100	7.0	4.00	7.0	27000		9007.3
23-Oct-16 10:45:00	32	3.1	255	34	103	100	7.0	4.00	7.0	27000		9008.4
23-Oct-16 11:00:00	32	2.9	254	35	104	100	7.0	4.00	7.0	27000		9009.4
23-Oct-16 11:05:00	Lowered orifice plate, carrier got jammed in Canalta.											
23-Oct-16 11:10:00	Bypassed separator to flare, bled off separator pressure.											
23-Oct-16 11:14:00	Removed jammed carrier.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Oct-16 11:15:00	32	2.7	260	35	33	100	7.0	4.00	7.0	27000		9010.3
23-Oct-16 11:26:00	Passed flow back through separator.											
23-Oct-16 11:27:00	Drained liquid trap at base of flare stack.											
23-Oct-16 11:30:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.638.											
23-Oct-16 11:30:00	32	2.5	258	36	108	100	7.0	4.00	8.0	24000		9011.2
23-Oct-16 11:45:00	32	2.4	258	35	108	100	7.0	4.00	8.0	24000		9012.2
23-Oct-16 12:00:00	32	2.2	256	36	109	100	7.0	4.00	8.0	24000		9013.1
23-Oct-16 12:15:00	32	2.0	259	36	108	100	7.0	4.00	8.0	24000		9014.2
23-Oct-16 12:30:00	32	1.8	259	37	110	100	7.0	4.00	8.0	24000		9015.3
23-Oct-16 12:45:00	32	1.6	252	37	109	100	7.0	4.00	8.0	24000		9016.4
23-Oct-16 13:00:00	Weekley safety meeting.											
23-Oct-16 13:00:00	32	1.4	255	37	108	100	7.0	4.00	8.0	24000		9017.5
23-Oct-16 13:15:00	32	1.3	261	37	102	100	7.0	4.00	8.0	24000		9018.5
23-Oct-16 13:30:00	32	1.1	256	37	105	100	7.0	4.00	8.0	24000		9019.6
23-Oct-16 13:45:00	32	0.9	260	37	105	100	7.0	4.00	8.0	24000		9020.7
23-Oct-16 14:00:00	MP on 32/64" Fixed Choke.											
23-Oct-16 14:00:00	Lowered 1.75" Orifice Plate.											
23-Oct-16 14:00:00	32	0.7	258	37	104	100	7.0	4.00	8.0	24000		9021.8
23-Oct-16 14:15:00	32	0.5	259	38	105	100	7.0	4.00	8.0	24000	1.043	9023.0
23-Oct-16 14:30:00	32	0.3	260	38	105	100	7.0	4.00	8.0	24000	1.052	9024.1
23-Oct-16 14:45:00	32	0.6	258	38	105	100	7.0	4.00	8.0	24000	1.036	9025.3
23-Oct-16 15:00:00	32	0.6	260	38	107	100	7.0	4.00	8.0	24000	1.049	9026.4
23-Oct-16 15:15:00	32	0.6	269	37	104	100	7.0	4.00	8.0	24000	1.036	9027.5
23-Oct-16 15:20:00	Well slugging, raise orifice plate.											
23-Oct-16 15:20:00	End of MP.											
23-Oct-16 15:30:00	32	0.6	254	37	98	100	7.0	4.00	8.0	24000		9028.5
23-Oct-16 15:45:00	32	0.7	263	36	101	100	7.0	4.00	8.0	24000		9029.5
23-Oct-16 15:58:00	Slug sample results BSW, 100% no solids.											
23-Oct-16 16:00:00	32	0.7	293	36	99	100	7.0	4.00	8.0	24000		9030.6
23-Oct-16 16:15:00	32	0.7	275	37	105	100	7.0	4.00	8.0	24000		9031.6
23-Oct-16 16:30:00	32	0.4	247	36	99	100	7.0	4.00	8.0	24000		9032.6
23-Oct-16 16:45:00	32	0.6	257	36	98	100	7.0	4.00	8.0	24000		9033.7
23-Oct-16 17:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.638.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Oct-16 17:00:00	32	-1.4	255	36	96	100	7.0	4.00	7.0	24000		9034.7
23-Oct-16 17:01:00	Water sample from VX=PH7, Electrical Conductivity=58.69mS@26.6degC,Water Density=1014.3kg/m3@Deg28.7C, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-230.4mV2, Salinity=24000ppm.											
23-Oct-16 17:15:00	32	0.9	261	35	96	100	7.0	4.00	7.0	24000		9035.7
23-Oct-16 17:30:00	32	0.9	259	34	96	100	7.0	4.00	7.0	24000		9036.8
23-Oct-16 17:45:00	32	1.0	252	34	96	100	7.0	4.00	7.0	24000		9037.8
23-Oct-16 18:00:00	32	1.0	260	33	95	100	7.0	4.00	7.0	24000		9038.8
23-Oct-16 18:15:00	32	0.9	257	33	96	100	7.0	4.00	7.0	24000		9040.0
23-Oct-16 18:30:00	32	1.0	253	33	95	100	7.0	4.00	7.0	24000		9041.1
23-Oct-16 18:45:00	32	1.0	250	32	96	100	7.0	4.00	7.0	24000		9042.3
23-Oct-16 19:00:00	32	2.0	258	32	96	100	7.0	4.00	7.0	24000		9043.4
23-Oct-16 19:15:00	32	4.0	256	32	96	100	7.0	4.00	7.0	24000		9044.6
23-Oct-16 19:30:00	32	3.9	254	33	96	100	7.0	4.00	7.0	24000		9045.7
23-Oct-16 19:45:00	32	4.1	257	32	95	100	7.0	4.00	7.0	24000		9046.9
23-Oct-16 19:55:00	Well slugging, monitoring pressures.											
23-Oct-16 20:00:00	Slug BSW, 100% no solids.											
23-Oct-16 20:00:00	32	4.0	192	32	83	100	7.0	4.00	7.0	24000		9048.0
23-Oct-16 20:15:00	32	5.1	327	33	115	100	7.0	4.00	7.0	24000		9049.3
23-Oct-16 20:30:00	32	3.9	269	33	109	100	7.0	4.00	7.0	24000		9050.6
23-Oct-16 20:45:00	32	3.9	253	32	97	100	7.0	4.00	7.0	24000		9051.8
23-Oct-16 21:00:00	32	4.1	250	31	98	100	7.0	4.00	7.0	24000		9053.1
23-Oct-16 21:15:00	32	3.9	256	31	95	100	7.0	4.00	7.0	24000		9054.1
23-Oct-16 21:30:00	32	4.1	257	31	96	100	7.0	4.00	7.0	24000		9055.2
23-Oct-16 21:45:00	32	3.9	250	30	96	100	7.0	4.00	7.0	24000		9056.2
23-Oct-16 22:00:00	Pumped 62.56 bbls to the pond.											
23-Oct-16 22:00:00	32	3.9	255	30	94	100	7.0	4.00	7.0	24000		9057.2
23-Oct-16 22:15:00	32	4.0	254	30	95	100	7.0	4.00	7.0	24000		9058.0
23-Oct-16 22:30:00	32	3.9	253	30	93	100	7.0	4.00	7.0	24000		9058.9
23-Oct-16 22:45:00	32	4.1	247	30	94	100	7.0	4.00	7.0	24000		9059.7
23-Oct-16 23:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.638.											
23-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=52.92mS@21.9degC,Water Density=1015.2kg/m3@Deg24.4C, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-215.1mV2, Salinity=21000ppm.											
23-Oct-16 23:00:00	32	3.9	262	30	97	100	7.0	4.00	7.0	21000		9060.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Oct-16 23:15:00	32	4.1	251	30	93	100	7.0	4.00	7.0	21000		9061.7
23-Oct-16 23:30:00	32	4.1	256	30	94	100	7.0	4.00	7.0	21000		9063.0
23-Oct-16 23:45:00	32	4.1	255	30	94	100	7.0	4.00	7.0	21000		9064.3
24-Oct-16 00:00:00	32	4.1	252	30	95	100	7.0	4.00	7.0	21000		9065.5
24-Oct-16 00:15:00	32	4.1	251	30	94	100	7.0	4.00	7.0	21000		9066.6
24-Oct-16 00:30:00	32	4.1	255	29	94	100	7.0	4.00	7.0	21000		9067.6
24-Oct-16 00:45:00	32	4.0	251	29	94	100	7.0	4.00	7.0	21000		9068.6
24-Oct-16 01:00:00	32	4.1	249	29	93	100	7.0	4.00	7.0	21000		9069.7
24-Oct-16 01:15:00	32	4.1	258	29	94	100	7.0	4.00	7.0	21000		9070.7
24-Oct-16 01:30:00	32	4.1	251	29	94	100	7.0	4.00	7.0	21000		9071.7
24-Oct-16 01:45:00	32	4.1	250	29	94	100	7.0	4.00	7.0	21000		9072.8
24-Oct-16 02:00:00	32	3.9	251	30	96	100	7.0	4.00	7.0	21000		9073.8
24-Oct-16 02:15:00	32	4.1	250	30	94	100	7.0	4.00	7.0	21000		9074.8
24-Oct-16 02:30:00	32	4.1	249	30	96	100	7.0	4.00	7.0	21000		9075.9
24-Oct-16 02:45:00	32	6.9	255	30	94	100	7.0	4.00	7.0	21000		9076.9
24-Oct-16 03:00:00	32	5.7	253	30	94	100	7.0	4.00	7.0	21000		9077.9
24-Oct-16 03:15:00	32	7.1	254	29	94	100	7.0	4.00	7.0	21000		9079.1
24-Oct-16 03:30:00	32	6.9	256	29	94	100	7.0	4.00	7.0	21000		9080.2
24-Oct-16 03:45:00	32	7.0	253	29	94	100	7.0	4.00	7.0	21000		9081.4
24-Oct-16 04:00:00	32	7.1	258	29	94	100	7.0	4.00	7.0	21000		9082.5
24-Oct-16 04:15:00	32	6.9	253	29	94	100	7.0	4.00	7.0	21000		9083.6
24-Oct-16 04:30:00	32	6.9	254	28	94	100	7.0	4.00	7.0	21000		9084.6
24-Oct-16 04:45:00	32	7.0	248	28	95	100	7.0	4.00	7.0	21000		9085.6
24-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
24-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=52.47mS@21.4degC,Water Density=1015.2kg/m3@Deg23.8C, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-207.4mV2, Salinity=21000ppm.											
24-Oct-16 05:00:00	32	7.0	251	28	96	100	7.0	4.00	8.0	21000		9086.7
24-Oct-16 05:15:00	32	7.1	252	28	96	100	7.0	4.00	8.0	21000		9087.6
24-Oct-16 05:30:00	MP on 32/64" Fixed Choke.											
24-Oct-16 05:30:00	Lowered 1.750" Orifice Plate.											
24-Oct-16 05:30:00	32	7.1	247	28	96	100	7.0	4.00	8.0	21000		9088.5
24-Oct-16 05:45:00	32	7.1	248	28	96	100	7.0	4.00	8.0	21000	1.024	9089.4
24-Oct-16 06:00:00	32	7.1	251	28	96	100	7.0	4.00	8.0	21000	1.028	9090.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
24-Oct-16 06:08:56	Checked for carry over on barton scrubbers.											
24-Oct-16 06:15:00	32	7.1	249	28	96	100	7.0	4.00	8.0	21000	1.012	9091.5
24-Oct-16 06:30:00	32	6.9	249	28	95	100	7.0	4.00	8.0	21000	1.022	9092.7
24-Oct-16 06:45:00	32	6.9	249	29	96	100	7.0	4.00	8.0	21000	1.027	9093.8
24-Oct-16 06:53:46	Checked for carry over on barton scrubbers.											
24-Oct-16 07:00:00	32	6.9	256	29	94	100	7.0	4.00	8.0	21000	1.008	9095.0
24-Oct-16 07:15:00	32	6.3	254	29	96	100	7.0	4.00	8.0	21000	1.029	9096.0
24-Oct-16 07:30:00	32	3.9	253	29	96	100	7.0	4.00	8.0	21000	1.020	9097.0
24-Oct-16 07:45:00	32	3.8	250	30	96	100	7.0	4.00	8.0	21000	1.035	9098.1
24-Oct-16 07:55:08	Checked for carry over on barton scrubbers.											
24-Oct-16 08:00:00	32	3.9	253	31	95	100	7.0	4.00	8.0	21000	1.018	9099.1
24-Oct-16 08:15:00	32	3.8	255	31	96	100	7.0	4.00	8.0	21000	1.019	9100.3
24-Oct-16 08:30:00	32	3.9	259	32	95	100	7.0	4.00	8.0	21000	1.016	9101.4
24-Oct-16 08:31:17	Checked for carry over on barton scrubbers.											
24-Oct-16 08:45:00	32	3.6	257	32	96	100	7.0	4.00	8.0	21000	1.007	9102.6
24-Oct-16 08:57:20	Checked for carry over on barton scrubbers.											
24-Oct-16 09:00:00	32	3.8	254	33	96	100	7.0	4.00	8.0	21000	1.017	9103.7
24-Oct-16 09:15:00	32	3.7	253	33	95	100	7.0	4.00	8.0	21000	1.018	9104.7
24-Oct-16 09:30:00	32	2.4	254	34	95	100	7.0	4.00	8.0	21000	1.016	9105.8
24-Oct-16 09:30:07	Checked for carry over on barton scrubbers.											
24-Oct-16 09:45:00	32	0.8	255	34	96	100	7.0	4.00	8.0	21000	0.995	9106.8
24-Oct-16 10:00:00	32	0.7	260	35	96	100	7.0	4.00	8.0	21000	1.014	9107.8
24-Oct-16 10:00:06	Checked for carry over on barton scrubbers.											
24-Oct-16 10:15:00	32	0.8	257	36	98	100	7.0	4.00	8.0	21000	1.001	9108.9
24-Oct-16 10:30:00	32	0.8	260	36	96	100	7.0	4.00	8.0	21000	1.013	9109.9
24-Oct-16 10:45:00	32	0.7	256	36	98	100	7.0	4.00	8.0	21000	1.006	9110.9
24-Oct-16 10:57:52	Checked for carry over on barton scrubbers.											
24-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4% Gas SG 0.640.											
24-Oct-16 11:00:00	32	0.8	257	37	96	100	7.0	4.00	8.0	20000	1.002	9112.0
24-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=57.96mS@25.5degC,Water Density=1014.2kg/m3@27.9DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-230mV2, Salinity=20000ppm.											
24-Oct-16 11:10:00	Pumped 51.6 bbl from tank to pond.											
24-Oct-16 11:15:00	32	0.8	259	37	96	100	7.0	4.00	8.0	20000	1.009	9112.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
24-Oct-16 11:30:00	32	0.8	260	37	96	100	7.0	4.00	8.0	20000	1.011	9113.9
24-Oct-16 11:32:08	Checked for carry over on barton scrubbers.											
24-Oct-16 11:45:00	32	0.4	257	38	96	100	7.0	4.00	8.0	20000	1.009	9114.8
24-Oct-16 11:59:07	Checked for carry over on barton scrubbers.											
24-Oct-16 12:00:00	32	-2.1	254	38	98	100	7.0	4.00	8.0	20000	1.014	9115.7
24-Oct-16 12:15:00	32	0.6	262	39	96	100	7.0	4.00	8.0	20000	1.004	9116.7
24-Oct-16 12:30:00	32	-1.8	258	38	98	100	7.0	4.00	8.0	20000	1.014	9117.6
24-Oct-16 12:30:20	Checked for carry over on barton scrubbers.											
24-Oct-16 12:45:00	32	-2.1	259	39	99	100	7.0	4.00	8.0	20000	0.996	9118.5
24-Oct-16 13:00:00	32	-2.1	256	38	96	100	7.0	4.00	8.0	20000	1.008	9119.4
24-Oct-16 13:01:09	Checked for carry over on barton scrubbers.											
24-Oct-16 13:15:00	32	-2.3	262	39	96	100	7.0	4.00	8.0	20000	0.996	9120.8
24-Oct-16 13:30:00	32	-2.3	255	39	99	100	7.0	4.00	8.0	20000	1.016	9122.2
24-Oct-16 13:45:00	32	-2.4	258	39	98	100	7.0	4.00	8.0	20000	1.010	9123.6
24-Oct-16 14:00:00	32	-2.1	264	39	98	100	7.0	4.00	8.0	20000	1.014	9124.9
24-Oct-16 14:01:57	Checked for carry over on barton scrubbers.											
24-Oct-16 14:15:00	32	-2.1	256	39	99	100	7.0	4.00	8.0	20000	1.004	9126.0
24-Oct-16 14:30:00	32	-2.3	259	39	99	100	7.0	4.00	8.0	20000	1.011	9127.0
24-Oct-16 14:45:00	32	-2.3	256	39	99	100	7.0	4.00	8.0	20000	1.013	9128.0
24-Oct-16 15:00:00	32	-2.1	254	39	99	100	7.0	4.00	8.0	20000	1.020	9129.1
24-Oct-16 15:06:24	Checked for carry over on barton scrubbers.											
24-Oct-16 15:15:00	32	-2.1	252	39	99	100	7.0	4.00	8.0	20000	1.007	9130.3
24-Oct-16 15:30:00	32	-2.3	261	38	99	100	7.0	4.00	8.0	20000	1.007	9131.6
24-Oct-16 15:45:00	32	-2.1	260	38	98	100	7.0	4.00	8.0	20000	1.005	9132.9
24-Oct-16 16:00:00	VX water port plugged with debris. Used enerpac pump to clear port.											
24-Oct-16 16:00:00	32	-2.1	254	39	99	100	7.0	4.00	8.0	20000	1.005	9134.1
24-Oct-16 16:05:00	Flushed VX water port to remove all debris.											
24-Oct-16 16:08:03	Checked for carry over on barton scrubbers.											
24-Oct-16 16:15:00	32	-2.3	259	38	98	100	7.0	4.00	8.0	20000	1.001	9134.7
24-Oct-16 16:30:00	32	-2.1	262	37	99	100	7.0	4.00	8.0	20000	1.002	9135.3
24-Oct-16 16:45:00	32	-2.1	256	38	99	100	7.0	4.00	8.0	20000	1.013	9135.9
24-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
24-Oct-16 17:00:00	Water sample from VX: ph=7, Electrical Conductivity=61.05mS@28.5degC,Water Density=1013.8kg/m3@30.5DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-236.5mV2, Salinity=19000ppm.											
24-Oct-16 17:00:00	32	-2.1	256	37	99	100	7.0	4.00	8.0	19000	0.994	9136.4
24-Oct-16 17:15:00	32	-2.1	255	36	99	100	7.0	4.00	8.0	19000	1.006	9137.5
24-Oct-16 17:20:57	WHP started to spike.											
24-Oct-16 17:30:00	32	-2.1	252	35	99	100	7.0	4.00	8.0	19000	0.976	9138.5
24-Oct-16 17:45:00	32	-1.8	249	35	103	100	7.0	4.00	8.0	19000	1.036	9139.5
24-Oct-16 17:48:47	Opened barton bypass to protect it whilst WHP stabalises.											
24-Oct-16 18:00:00	32	-1.9	265	35	99	100	7.0	4.00	8.0	19000	0.822	9140.6
24-Oct-16 18:15:00	32	-0.2	255	35	99	100	7.0	4.00	8.0	19000	1.024	9141.7
24-Oct-16 18:30:00	32	1.2	258	34	101	100	7.0	4.00	8.0	19000	1.007	9142.9
24-Oct-16 18:45:00	32	1.1	248	34	100	100	7.0	4.00	8.0	19000	1.018	9144.0
24-Oct-16 18:55:00	Checked for carry over on barton scrubbers.											
24-Oct-16 19:00:00	32	1.2	255	33	99	100	7.0	4.00	8.0	19000	1.015	9145.2
24-Oct-16 19:15:00	32	1.2	251	33	100	100	7.0	4.00	8.0	19000	1.017	9146.3
24-Oct-16 19:30:00	32	2.8	251	33	99	100	7.0	4.00	8.0	19000	1.025	9147.5
24-Oct-16 19:45:00	32	4.2	253	32	99	100	7.0	4.00	8.0	19000	1.021	9148.6
24-Oct-16 20:00:00	32	3.9	253	32	100	100	7.0	4.00	8.0	19000	1.026	9149.8
24-Oct-16 20:04:00	Checked for carry over on barton scrubbers.											
24-Oct-16 20:15:00	32	4.1	254	32	100	100	7.0	4.00	8.0	19000	1.028	9150.9
24-Oct-16 20:30:00	WHP started to spike, monitoring barton.											
24-Oct-16 20:30:00	32	4.1	252	32	100	100	7.0	4.00	8.0	19000	1.015	9152.1
24-Oct-16 20:45:00	32	4.1	254	32	97	100	7.0	4.00	8.0	19000	1.042	9153.2
24-Oct-16 21:00:00	32	4.1	253	32	100	100	7.0	4.00	8.0	19000	1.022	9154.4
24-Oct-16 21:11:00	Checked for carry over on barton scrubbers.											
24-Oct-16 21:15:00	32	4.0	255	32	100	100	7.0	4.00	8.0	19000	1.031	9155.3
24-Oct-16 21:30:00	32	4.1	251	32	99	100	7.0	4.00	8.0	19000	1.027	9156.2
24-Oct-16 21:45:00	32	4.1	257	32	99	100	7.0	4.00	8.0	19000	1.031	9157.1
24-Oct-16 22:00:00	32	4.1	250	32	99	100	7.0	4.00	8.0	19000	1.029	9158.1
24-Oct-16 22:04:00	Checked for carry over on barton scrubbers.											
24-Oct-16 22:15:00	32	4.1	251	32	100	100	7.0	4.00	8.0	19000	1.007	9159.1
24-Oct-16 22:30:00	32	4.3	259	32	99	100	7.0	4.00	8.0	19000	1.006	9160.1
24-Oct-16 22:45:00	32	3.9	254	31	99	100	7.0	4.00	8.0	19000	1.006	9161.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
24-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=55.6mS@24.0degC,Water Density=1014.8kg/m3@25.9DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-207.5mV2, Salinity=14000ppm.											
24-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
24-Oct-16 23:00:00	32	4.1	251	31	100	100	7.0	4.00	8.0	14000	1.005	9162.2
24-Oct-16 23:06:00	Checked for carry over on barton scrubbers.											
24-Oct-16 23:15:00	32	4.2	254	31	99	100	7.0	4.00	8.0	14000	1.001	9163.2
24-Oct-16 23:30:00	32	4.1	256	31	97	100	7.0	4.00	8.0	14000	1.002	9164.3
24-Oct-16 23:45:00	32	4.3	255	31	100	100	7.0	4.00	8.0	14000	1.002	9165.3
25-Oct-16 00:00:00	32	4.3	251	31	99	100	7.0	4.00	8.0	14000	1.008	9166.3
25-Oct-16 00:11:00	Checked for carry over on barton scrubbers.											
25-Oct-16 00:15:00	32	3.9	250	31	100	100	7.0	4.00	8.0	14000	1.000	9167.4
25-Oct-16 00:30:00	32	3.8	259	31	99	100	7.0	4.00	8.0	14000	1.007	9168.4
25-Oct-16 00:45:00	32	4.1	253	31	99	100	7.0	4.00	8.0	14000	1.009	9169.4
25-Oct-16 01:00:00	Pumped 61.64 bbls from tank to the pond.											
25-Oct-16 01:00:00	32	4.4	254	31	99	100	7.0	4.00	8.0	14000	1.010	9170.5
25-Oct-16 01:03:00	Checked for carry over on barton scrubbers.											
25-Oct-16 01:15:00	32	4.5	257	31	99	100	7.0	4.00	8.0	14000	0.971	9171.5
25-Oct-16 01:30:00	32	4.3	248	31	99	100	7.0	4.00	8.0	14000	0.973	9172.5
25-Oct-16 01:45:00	32	4.0	256	31	99	100	7.0	4.00	8.0	14000	0.973	9173.6
25-Oct-16 02:00:00	32	4.0	246	31	99	100	7.0	4.00	8.0	14000	0.973	9174.6
25-Oct-16 02:15:00	32	4.1	253	31	100	100	7.0	4.00	8.0	14000	0.969	9175.8
25-Oct-16 02:30:00	32	4.3	254	31	100	100	7.0	4.00	8.0	14000	0.974	9176.9
25-Oct-16 02:45:00	32	4.3	251	31	99	100	7.0	4.00	8.0	14000	0.979	9178.1
25-Oct-16 03:00:00	32	4.1	251	31	101	100	7.0	4.00	8.0	14000	0.980	9179.2
25-Oct-16 03:06:00	Checked for carry over on barton scrubbers.											
25-Oct-16 03:15:00	32	4.1	249	31	100	100	7.0	4.00	8.0	14000	0.973	9180.3
25-Oct-16 03:30:00	32	7.2	250	30	99	100	7.0	4.00	8.0	14000	0.981	9181.3
25-Oct-16 03:45:00	32	7.3	257	30	100	100	7.0	4.00	8.0	14000	0.976	9182.3
25-Oct-16 04:00:00	32	7.0	247	30	100	100	7.0	4.00	8.0	14000	0.982	9183.4
25-Oct-16 04:05:00	Checked for carry over on barton scrubbers.											
25-Oct-16 04:06:00	WHP dropping, slug coming.											
25-Oct-16 04:07:00	Lifted 1.750" orifice plate											
25-Oct-16 04:07:00	End of MP.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
25-Oct-16 04:15:00	32	7.0	271	30	91	100	7.0	4.00	8.0	14000		9184.4
25-Oct-16 04:30:00	32	7.2	263	31	106	100	7.0	4.00	8.0	14000		9185.4
25-Oct-16 04:45:00	32	7.2	246	30	99	100	7.0	4.00	8.0	14000		9186.5
25-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
25-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.3mS@22.2degC,Water Density=1015.4kg/m3@24.0DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-219.0mV2, Salinity=14000ppm.											
25-Oct-16 05:00:00	32	7.1	252	30	101	100	7.0	4.00	8.0	14000		9187.5
25-Oct-16 05:15:00	32	7.1	249	30	96	100	7.0	4.00	8.0	14000		9188.4
25-Oct-16 05:30:00	32	6.9	259	30	99	100	7.0	4.00	8.0	14000		9189.3
25-Oct-16 05:45:00	32	6.7	249	30	99	100	7.0	4.00	8.0	14000		9190.3
25-Oct-16 06:00:00	32	6.2	253	30	99	100	7.0	4.00	8.0	14000		9191.2
25-Oct-16 06:15:00	32	6.4	250	30	100	100	7.0	4.00	8.0	14000		9192.2
25-Oct-16 06:30:00	32	6.9	251	30	99	100	7.0	4.00	8.0	14000		9193.3
25-Oct-16 06:45:00	32	4.1	254	31	99	100	7.0	4.00	8.0	14000		9194.3
25-Oct-16 07:00:00	32	3.9	256	31	97	100	7.0	4.00	8.0	14000		9195.3
25-Oct-16 07:15:00	32	3.8	253	32	99	100	7.0	4.00	8.0	14000		9196.1
25-Oct-16 07:30:00	32	3.8	251	32	99	100	7.0	4.00	8.0	14000		9196.9
25-Oct-16 07:45:00	32	3.7	254	33	99	100	7.0	4.00	8.0	14000		9197.7
25-Oct-16 08:00:00	Gas SG 0.642.											
25-Oct-16 08:00:00	32	0.8	255	34	98	100	7.0	4.00	8.0	14000		9198.5
25-Oct-16 08:15:00	32	0.8	252	34	97	100	7.0	4.00	8.0	14000		9199.4
25-Oct-16 08:20:00	Flush out barton liners.											
25-Oct-16 08:30:00	32	0.8	253	35	99	100	7.0	4.00	8.0	14000		9200.3
25-Oct-16 08:40:00	Barton back online.											
25-Oct-16 08:45:00	32	0.7	254	36	97	100	7.0	4.00	8.0	14000		9201.1
25-Oct-16 09:00:00	Lowered 1.75" plate, plate carrier jammed.											
25-Oct-16 09:00:00	32	0.8	252	36	101	100	7.0	4.00	8.0	14000		9202.0
25-Oct-16 09:03:00	By-passed separaor, bled off pressure.											
25-Oct-16 09:11:00	Remove jammed carrier, inspect teeth and carrier.											
25-Oct-16 09:15:00	32	0.7	256	36	33	100	7.0	4.00	8.0	14000		9202.9
25-Oct-16 09:30:00	32	-2.1	251	37	33	100	7.0	4.00	8.0	14000		9203.7
25-Oct-16 09:31:00	Passed flow back through separator.											
25-Oct-16 09:45:00	32	-0.5	255	37	110	100	7.0	4.00	8.0	14000		9204.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
25-Oct-16 10:00:00	VSAT down for maintenance.											
25-Oct-16 10:00:00	32	-1.6	255	38	110	100	7.0	4.00	8.0	14000		9205.4
25-Oct-16 10:12:00	Attemped to lower 1.75" plate, plate jammed.											
25-Oct-16 10:15:00	32	-2.1	255	38	111	100	7.0	4.00	8.0	14000		9206.3
25-Oct-16 10:18:00	By-passed separator and bled off.											
25-Oct-16 10:25:00	Remove jammed plate carrier.											
25-Oct-16 10:25:00	Passed flow back through separator.											
25-Oct-16 10:30:00	32	-2.1	256	38	33	100	7.0	4.00	8.0	14000		9207.2
25-Oct-16 10:42:00	Powered down genarator for service, TDA running on UPS.											
25-Oct-16 10:45:00	32	-2.1	254	38	107	100	7.0	4.00	8.0	14000		9208.0
25-Oct-16 11:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.642.											
25-Oct-16 11:00:00	32	-2.1	260	39	107	100	7.0	4.00	7.0	36000		9208.9
25-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=61.07mS@27.9degC,Water Density=1013.7kg/m3@30.7DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-247.4mV2, Salinity=36000ppm.											
25-Oct-16 11:15:00	Genarator back up and running, off of UPS.											
25-Oct-16 11:15:00	32	-2.1	259	39	108	100	7.0	4.00	7.0	36000		9209.8
25-Oct-16 11:30:00	32	-2.1	259	39	107	100	7.0	4.00	7.0	36000		9210.6
25-Oct-16 11:45:00	32	-1.9	259	39	108	100	7.0	4.00	7.0	36000		9211.5
25-Oct-16 12:00:00	VSAT back up and running.											
25-Oct-16 12:00:00	32	-1.9	257	40	108	100	7.0	4.00	7.0	36000		9212.3
25-Oct-16 12:15:00	32	-1.9	254	40	107	100	7.0	4.00	7.0	36000		9213.4
25-Oct-16 12:30:00	32	-1.9	255	40	104	100	7.0	4.00	7.0	36000		9214.4
25-Oct-16 12:45:00	32	-2.1	260	39	104	100	7.0	4.00	7.0	36000		9215.4
25-Oct-16 13:00:00	32	-2.0	252	40	105	100	7.0	4.00	7.0	36000		9216.5
25-Oct-16 13:15:00	32	-2.1	255	40	105	100	7.0	4.00	7.0	36000		9217.6
25-Oct-16 13:30:00	32	-2.1	253	39	105	100	7.0	4.00	7.0	36000		9218.8
25-Oct-16 13:45:00	32	-2.1	254	40	104	100	7.0	4.00	7.0	36000		9219.9
25-Oct-16 14:00:00	Gas SG 0.642.											
25-Oct-16 14:00:00	32	-1.9	259	39	105	100	7.0	4.00	7.0	36000		9221.1
25-Oct-16 14:15:00	32	-2.1	257	40	104	100	7.0	4.00	7.0	36000		9222.1
25-Oct-16 14:30:00	32	-2.1	255	40	105	100	7.0	4.00	7.0	36000		9223.1
25-Oct-16 14:43:00	WHP dropping, well slugging.											
25-Oct-16 14:45:00	Slug sample results BSW= 100% no solids.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
25-Oct-16 14:45:00	32	-2.0	235	40	96	100	7.0	4.00	7.0	36000		9224.2
25-Oct-16 15:00:00	Took ALS sample from separator. 9225 bbls, E.C 67.6mS @ 34.3degC, pH=7.											
25-Oct-16 15:00:00	32	-2.1	284	39	105	100	7.0	4.00	7.0	36000		9225.2
25-Oct-16 15:15:00	32	-2.1	237	40	99	100	7.0	4.00	7.0	36000		9226.0
25-Oct-16 15:30:00	32	-2.1	259	40	101	100	7.0	4.00	7.0	36000		9226.8
25-Oct-16 15:45:00	32	-2.0	251	39	98	100	7.0	4.00	7.0	36000		9227.6
25-Oct-16 16:00:00	32	-1.9	257	39	99	100	7.0	4.00	7.0	36000		9228.4
25-Oct-16 16:15:00	32	-1.9	251	39	98	100	7.0	4.00	7.0	36000		9229.5
25-Oct-16 16:30:00	32	-2.7	253	38	99	100	7.0	4.00	7.0	36000		9230.5
25-Oct-16 16:45:00	32	-2.1	249	38	99	100	7.0	4.00	7.0	36000		9231.5
25-Oct-16 17:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.642.											
25-Oct-16 17:00:00	32	-2.0	253	38	99	100	7.0	4.00	7.0	36000		9232.6
25-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=62.36mS@29.2degC,Water Density=1013.7kg/m3@31.3DegC, Dissolved Oxygen=1.8%, Oxidation Reduction Potential=-240.5mV2, Salinity=36000ppm.											
25-Oct-16 17:10:00	Pumped 62.64 bbl from tank to pond.											
25-Oct-16 17:15:00	32	-3.9	253	37	99	100	7.0	4.00	7.0	36000		9233.4
25-Oct-16 17:30:00	32	-1.9	258	36	99	100	7.0	4.00	7.0	36000		9234.2
25-Oct-16 17:45:00	32	-1.9	258	36	99	100	7.0	4.00	7.0	36000		9235.0
25-Oct-16 18:00:00	32	-1.8	253	35	99	100	7.0	4.00	7.0	36000		9235.8
25-Oct-16 18:15:00	32	-1.9	256	35	98	100	7.0	4.00	7.0	36000		9236.7
25-Oct-16 18:30:00	32	-1.7	250	35	99	100	7.0	4.00	7.0	36000		9237.6
25-Oct-16 18:45:00	32	0.1	258	34	98	100	7.0	4.00	7.0	36000		9238.6
25-Oct-16 19:00:00	32	1.2	256	34	99	100	7.0	4.00	7.0	36000		9239.5
25-Oct-16 19:15:00	32	1.2	258	34	98	100	7.0	4.00	7.0	36000		9240.7
25-Oct-16 19:30:00	32	1.2	251	33	99	100	7.0	4.00	7.0	36000		9242.0
25-Oct-16 19:45:00	32	1.2	250	33	99	100	7.0	4.00	7.0	36000		9243.3
25-Oct-16 20:00:00	32	4.0	257	33	97	100	7.0	4.00	7.0	36000		9244.5
25-Oct-16 20:15:00	32	4.1	253	33	99	100	7.0	4.00	7.0	36000		9245.5
25-Oct-16 20:30:00	32	4.1	250	32	97	100	7.0	4.00	7.0	36000		9246.4
25-Oct-16 20:45:00	32	4.1	252	32	97	100	7.0	4.00	7.0	36000		9247.3
25-Oct-16 21:00:00	32	4.1	249	32	97	100	7.0	4.00	7.0	36000		9248.2
25-Oct-16 21:15:00	32	4.0	256	32	98	100	7.0	4.00	7.0	36000		9249.3
25-Oct-16 21:30:00	32	3.5	254	32	99	100	7.0	4.00	7.0	36000		9250.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
25-Oct-16 21:45:00	32	0.9	254	32	99	100	7.0	4.00	7.0	36000		9251.3
25-Oct-16 22:00:00	32	1.5	251	32	99	100	7.0	4.00	7.0	36000		9252.4
25-Oct-16 22:15:00	32	2.2	256	32	96	100	7.0	4.00	7.0	36000		9253.4
25-Oct-16 22:30:00	32	3.9	247	32	99	100	7.0	4.00	7.0	36000		9254.4
25-Oct-16 22:45:00	32	4.0	254	32	97	100	7.0	4.00	7.0	36000		9255.5
25-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
25-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.5mS@22.2degC,Water Density=1015.1kg/m3@24.9DegC, Dissolved Oxygen=2.0%, Oxidation Reduction Potential=-232.4mV2, Salinity=36000ppm.											
25-Oct-16 23:00:00	32	4.0	253	31	99	100	7.0	4.00	8.0	36000		9256.5
25-Oct-16 23:15:00	32	3.9	254	31	99	100	7.0	4.00	8.0	36000		9257.4
25-Oct-16 23:30:00	32	4.1	248	31	98	100	7.0	4.00	8.0	36000		9258.3
25-Oct-16 23:45:00	32	3.9	250	31	99	100	7.0	4.00	8.0	36000		9259.3
26-Oct-16 00:00:00	32	4.1	255	31	98	100	7.0	4.00	8.0	36000		9260.2
26-Oct-16 00:15:00	32	4.1	250	32	95	100	7.0	4.00	8.0	36000		9261.2
26-Oct-16 00:25:00	Well slugging.											
26-Oct-16 00:30:00	32	3.9	268	32	100	100	7.0	4.00	8.0	36000		9262.3
26-Oct-16 00:45:00	32	4.1	251	31	96	100	7.0	4.00	8.0	36000		9263.3
26-Oct-16 01:00:00	32	4.1	256	31	99	100	7.0	4.00	8.0	36000		9264.3
26-Oct-16 01:15:00	32	4.1	247	32	98	100	7.0	4.00	8.0	36000		9265.4
26-Oct-16 01:30:00	32	4.1	252	31	99	100	7.0	4.00	8.0	36000		9266.4
26-Oct-16 01:45:00	32	4.1	249	31	100	100	7.0	4.00	8.0	36000		9267.4
26-Oct-16 02:00:00	32	4.1	254	31	99	100	7.0	4.00	8.0	36000		9268.5
26-Oct-16 02:15:00	32	4.1	255	31	99	100	7.0	4.00	8.0	36000		9269.5
26-Oct-16 02:30:00	32	4.1	250	31	99	100	7.0	4.00	8.0	36000		9270.5
26-Oct-16 02:45:00	32	4.1	250	31	99	100	7.0	4.00	8.0	36000		9271.6
26-Oct-16 03:00:00	32	4.1	257	31	99	100	7.0	4.00	8.0	36000		9272.6
26-Oct-16 03:15:00	32	5.3	248	31	99	100	7.0	4.00	8.0	36000		9273.5
26-Oct-16 03:30:00	32	5.5	252	30	98	100	7.0	4.00	8.0	36000		9274.4
26-Oct-16 03:45:00	32	5.4	250	30	98	100	7.0	4.00	8.0	36000		9275.4
26-Oct-16 04:00:00	32	6.8	249	30	99	100	7.0	4.00	8.0	36000		9276.3
26-Oct-16 04:15:00	32	6.3	250	30	99	100	7.0	4.00	8.0	36000		9277.2
26-Oct-16 04:30:00	32	4.1	251	31	99	100	7.0	4.00	8.0	36000		9278.1
26-Oct-16 04:45:00	32	4.1	250	31	99	100	7.0	4.00	8.0	36000		9279.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
26-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.53mS@22degC,Water Density=1014.8kg/m3@24.3DegC, Dissolved Oxygen=1.7%, Oxidation Reduction Potential=-148.6mV2, Salinity=36000ppm.											
26-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
26-Oct-16 05:00:00	32	6.1	261	30	97	100	7.0	4.00	8.0	36000		9280.0
26-Oct-16 05:15:00	32	6.2	246	31	98	100	7.0	4.00	8.0	36000		9281.0
26-Oct-16 05:30:00	32	5.7	256	31	99	100	7.0	4.00	8.0	36000		9282.0
26-Oct-16 05:45:00	32	6.9	244	30	97	100	7.0	4.00	8.0	36000		9283.1
26-Oct-16 06:00:00	32	6.9	254	30	99	100	7.0	4.00	8.0	36000		9284.1
26-Oct-16 06:11:00	WHP dropping, well slugging.											
26-Oct-16 06:15:00	32	6.9	239	30	93	100	7.0	4.00	8.0	36000		9285.1
26-Oct-16 06:30:00	32	7.1	266	30	105	100	7.0	4.00	8.0	36000		9286.2
26-Oct-16 06:45:00	32	5.3	251	31	96	100	7.0	4.00	8.0	36000		9287.2
26-Oct-16 07:00:00	32	3.9	252	32	101	100	7.0	4.00	8.0	36000		9288.2
26-Oct-16 07:15:00	32	3.8	252	33	99	100	7.0	4.00	8.0	36000		9289.2
26-Oct-16 07:30:00	32	3.8	252	34	98	100	7.0	4.00	8.0	36000		9290.1
26-Oct-16 07:45:00	32	0.6	257	34	99	100	7.0	4.00	8.0	36000		9291.0
26-Oct-16 08:00:00	Gas SG 0.642.											
26-Oct-16 08:00:00	32	0.6	247	35	98	100	7.0	4.00	8.0	36000		9291.9
26-Oct-16 08:10:00	Pumped 59.95 bbls from tank to pond.											
26-Oct-16 08:15:00	32	0.7	250	35	99	100	7.0	4.00	8.0	36000		9292.5
26-Oct-16 08:30:00	32	0.6	252	36	99	100	7.0	4.00	8.0	36000		9293.1
26-Oct-16 08:45:00	32	0.6	257	36	98	100	7.0	4.00	8.0	36000		9293.8
26-Oct-16 09:00:00	32	0.6	254	36	99	100	7.0	4.00	8.0	36000		9294.4
26-Oct-16 09:15:00	32	0.6	254	36	99	100	7.0	4.00	8.0	36000		9295.6
26-Oct-16 09:30:00	32	-2.0	256	37	99	100	7.0	4.00	8.0	36000		9296.9
26-Oct-16 09:45:00	32	-2.1	260	38	99	100	7.0	4.00	8.0	36000		9298.2
26-Oct-16 10:00:00	32	-2.3	254	38	98	100	7.0	4.00	8.0	36000		9299.4
26-Oct-16 10:15:00	32	-2.3	257	38	99	100	7.0	4.00	8.0	36000		9300.2
26-Oct-16 10:30:00	32	-2.1	251	39	99	100	7.0	4.00	8.0	36000		9301.0
26-Oct-16 10:45:00	32	-2.1	256	39	99	100	7.0	4.00	8.0	36000		9301.8
26-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
26-Oct-16 11:00:00	32	-2.1	255	39	101	100	7.0	4.00	8.0	39500		9302.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
26-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=64.36mS@29degC,Water Density=1013.1kg/m3@30DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-187.2mV2.											
26-Oct-16 11:15:00	32	-2.1	255	39	99	100	7.0	4.00	8.0	39500		9303.5
26-Oct-16 11:30:00	32	-2.1	256	40	99	100	7.0	4.00	8.0	39500		9304.3
26-Oct-16 11:45:00	32	-2.3	262	40	98	100	7.0	4.00	8.0	39500		9305.1
26-Oct-16 12:00:00	32	-2.1	255	37	101	100	7.0	4.00	8.0	39500		9305.9
26-Oct-16 12:15:00	32	-2.1	259	39	101	100	7.0	4.00	8.0	39500		9307.4
26-Oct-16 12:30:00	32	-2.1	255	39	99	100	7.0	4.00	8.0	39500		9308.9
26-Oct-16 12:45:00	32	-1.9	257	39	99	100	7.0	4.00	8.0	39500		9310.4
26-Oct-16 13:00:00	32	-2.1	258	38	99	100	7.0	4.00	8.0	39500		9311.9
26-Oct-16 13:15:00	32	-1.9	258	38	99	100	7.0	4.00	8.0	39500		9312.8
26-Oct-16 13:30:00	32	-2.1	254	39	99	100	7.0	4.00	8.0	39500		9313.7
26-Oct-16 13:45:00	32	-1.9	256	37	100	100	7.0	4.00	8.0	39500		9314.6
26-Oct-16 14:00:00	32	-2.1	257	38	98	100	7.0	4.00	8.0	39500		9315.5
26-Oct-16 14:15:00	32	-2.1	255	38	99	100	7.0	4.00	8.0	39500		9316.5
26-Oct-16 14:30:00	32	-2.1	263	39	99	100	7.0	4.00	8.0	39500		9317.4
26-Oct-16 14:45:00	32	-2.1	258	40	99	100	7.0	4.00	8.0	39500		9318.3
26-Oct-16 15:00:00	32	-4.2	256	40	99	100	7.0	4.00	8.0	39500		9319.2
26-Oct-16 15:15:00	32	-2.0	249	40	101	100	7.0	4.00	8.0	39500		9320.1
26-Oct-16 15:30:00	32	-1.9	250	38	101	100	7.0	4.00	8.0	39500		9321.0
26-Oct-16 15:45:00	32	-1.9	258	38	99	100	7.0	4.00	8.0	39500		9322.0
26-Oct-16 16:00:00	32	-1.9	248	38	101	100	7.0	4.00	8.0	39500		9322.9
26-Oct-16 16:05:00	Switched to adjustable choke, increased to 34/64".											
26-Oct-16 16:05:00	Waited for WHP to stabalize.											
26-Oct-16 16:11:00	Lowered separator pressure to 75 psia.											
26-Oct-16 16:15:00	32	-1.9	230	37	87	100	7.0	4.00	8.0	39500		9323.9
26-Oct-16 16:30:00	Installed 36/64" choke bean witnessed by WSR.											
26-Oct-16 16:30:00	32	-1.9	233	37	87	100	7.0	4.00	8.0	39500		9325.0
26-Oct-16 16:45:00	32	-1.9	227	38	87	100	7.0	4.00	8.0	39500		9326.0
26-Oct-16 16:56:00	End of FP #2.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #3 EPT Flow - Data

Flow on 36/64" Fixed Choke

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
26-Oct-16 16:57:00	FP #3 Extended Production Test Flow on 36/64" Fixed Choke.											
26-Oct-16 16:57:00	Increased to 36/64" adjustable choke, then diverted to 36/64" fixed choke.											
26-Oct-16 16:57:00	36	-2.4	230	38	87	100	7.0	4.00	8.0	39500		9326.8
26-Oct-16 16:59:00	Flowing well on 36/64" fixed choke.											
26-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 3.5%, Gas SG 0.642.											
26-Oct-16 17:00:00	36	-1.9	209	38	90	100	7.0	3.50	8.0	39000		9327.0
26-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=62.33mS@28.2degC,Water Density=1013.9kg/m3@29.2DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-229mV2.											
26-Oct-16 17:15:00	36	-1.9	208	37	87	100	7.0	3.50	8.0	39000		9328.1
26-Oct-16 17:30:00	36	-1.9	214	36	90	100	7.0	3.50	8.0	39000		9329.1
26-Oct-16 17:45:00	36	-1.7	208	36	88	100	7.0	3.50	8.0	39000		9330.1
26-Oct-16 18:00:00	36	-1.7	211	36	89	100	7.0	3.50	8.0	39000		9331.2
26-Oct-16 18:15:00	36	-1.7	208	35	89	100	7.0	3.50	8.0	39000		9332.3
26-Oct-16 18:30:00	36	-1.9	208	35	89	100	7.0	3.50	8.0	39000		9333.5
26-Oct-16 18:45:00	36	-0.6	208	35	89	100	7.0	3.50	8.0	39000		9334.6
26-Oct-16 19:00:00	36	1.2	208	34	89	100	7.0	3.50	8.0	39000		9335.8
26-Oct-16 19:15:00	36	1.2	214	34	90	100	7.0	3.50	8.0	39000		9336.8
26-Oct-16 19:30:00	36	1.2	206	33	87	100	7.0	3.50	8.0	39000		9337.8
26-Oct-16 19:45:00	36	1.3	207	33	89	100	7.0	3.50	8.0	39000		9338.9
26-Oct-16 20:00:00	36	1.9	211	33	89	100	7.0	3.50	8.0	39000		9339.9
26-Oct-16 20:15:00	36	4.2	210	33	89	100	7.0	3.50	8.0	39000		9340.8
26-Oct-16 20:30:00	36	4.2	211	33	90	100	7.0	3.50	8.0	39000		9341.8
26-Oct-16 20:45:00	36	4.3	203	33	89	100	7.0	3.50	8.0	39000		9342.7
26-Oct-16 21:00:00	36	4.3	202	33	89	100	7.0	3.50	8.0	39000		9343.6
26-Oct-16 21:15:00	36	4.1	203	33	89	100	7.0	3.50	8.0	39000		9344.6
26-Oct-16 21:30:00	36	4.3	205	32	89	100	7.0	3.50	8.0	39000		9345.7
26-Oct-16 21:45:00	36	4.2	206	32	89	100	7.0	3.50	8.0	39000		9346.7
26-Oct-16 22:00:00	36	4.1	203	32	89	100	7.0	3.50	8.0	39000		9347.7
26-Oct-16 22:15:00	36	4.1	206	32	89	100	7.0	3.50	8.0	39000		9348.8
26-Oct-16 22:30:00	36	4.1	206	32	89	100	7.0	3.50	8.0	39000		9349.8
26-Oct-16 22:45:00	36	4.1	201	32	88	100	7.0	3.50	8.0	39000		9350.8
26-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.650.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
26-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=61.13mS@27.8degC,Water Density=1012.8kg/m3@29.6DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-208.2mV2.											
26-Oct-16 23:00:00	Pumped 59.8 bbls from tank to the ponds.											
26-Oct-16 23:00:00	36	4.1	206	33	87	100	7.0	4.00	8.0	33000		9351.9
26-Oct-16 23:15:00	36	3.9	205	33	90	100	7.0	4.00	8.0	33000		9352.7
26-Oct-16 23:30:00	36	4.1	206	32	89	100	7.0	4.00	8.0	33000		9353.5
26-Oct-16 23:45:00	36	4.1	204	32	89	100	7.0	4.00	8.0	33000		9354.3
27-Oct-16 00:00:00	36	4.1	204	32	89	100	7.0	4.00	8.0	33000		9355.1
27-Oct-16 00:15:00	36	4.1	203	32	89	100	7.0	4.00	8.0	33000		9356.1
27-Oct-16 00:30:00	36	4.1	204	32	87	100	7.0	4.00	8.0	33000		9357.2
27-Oct-16 00:45:00	36	4.1	208	32	87	100	7.0	4.00	8.0	33000		9358.2
27-Oct-16 01:00:00	36	4.1	202	32	89	100	7.0	4.00	8.0	33000		9359.2
27-Oct-16 01:15:00	36	4.0	200	31	89	100	7.0	4.00	8.0	33000		9360.3
27-Oct-16 01:30:00	36	4.1	203	31	87	100	7.0	4.00	8.0	33000		9361.3
27-Oct-16 01:45:00	36	3.9	206	32	89	100	7.0	4.00	8.0	33000		9362.3
27-Oct-16 02:00:00	36	4.1	200	32	87	100	7.0	4.00	8.0	33000		9363.4
27-Oct-16 02:15:00	36	4.1	206	32	87	100	7.0	4.00	8.0	33000		9364.4
27-Oct-16 02:25:00	WHP dropping, well slugging.											
27-Oct-16 02:30:00	36	4.1	192	31	88	100	7.0	4.00	8.0	33000		9365.4
27-Oct-16 02:45:00	36	4.1	203	32	88	100	7.0	4.00	8.0	33000		9366.5
27-Oct-16 03:00:00	36	4.1	199	31	88	100	7.0	4.00	8.0	33000		9367.5
27-Oct-16 03:15:00	36	4.1	201	31	87	100	7.0	4.00	8.0	33000		9368.5
27-Oct-16 03:30:00	36	4.1	200	31	88	100	7.0	4.00	8.0	33000		9369.6
27-Oct-16 03:45:00	36	4.1	203	31	88	100	7.0	4.00	8.0	33000		9370.6
27-Oct-16 04:00:00	36	4.1	202	31	88	100	7.0	4.00	8.0	33000		9371.6
27-Oct-16 04:15:00	36	4.1	202	31	87	100	7.0	4.00	8.0	33000		9372.7
27-Oct-16 04:30:00	36	4.1	196	31	88	100	7.0	4.00	8.0	33000		9373.7
27-Oct-16 04:45:00	36	4.1	206	31	88	100	7.0	4.00	8.0	33000		9374.8
27-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.650.											
27-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=57.23mS@24.3degC,Water Density=1013.7kg/m3@26.4DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-225.8mV2.											
27-Oct-16 05:00:00	36	4.1	203	31	89	100	7.0	4.00	9.0	38000		9375.8
27-Oct-16 05:15:00	36	4.1	204	31	89	100	7.0	4.00	9.0	38000		9376.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
27-Oct-16 05:30:00	36	4.1	206	31	90	100	7.0	4.00	9.0	38000		9377.6
27-Oct-16 05:45:00	36	4.2	198	31	87	100	7.0	4.00	9.0	38000		9378.6
27-Oct-16 06:00:00	36	4.1	206	31	88	100	7.0	4.00	9.0	38000		9379.5
27-Oct-16 06:15:00	36	5.8	198	31	89	100	7.0	4.00	9.0	38000		9380.6
27-Oct-16 06:30:00	36	5.2	207	31	88	100	7.0	4.00	9.0	38000		9381.8
27-Oct-16 06:45:00	36	4.1	204	32	89	100	7.0	4.00	9.0	38000		9382.9
27-Oct-16 07:00:00	36	4.0	202	32	89	100	7.0	4.00	9.0	38000		9384.1
27-Oct-16 07:15:00	36	4.1	202	33	89	100	7.0	4.00	9.0	38000		9385.0
27-Oct-16 07:30:00	36	3.9	202	33	89	100	7.0	4.00	9.0	38000		9385.9
27-Oct-16 07:45:00	36	3.3	198	33	87	100	7.0	4.00	9.0	38000		9386.8
27-Oct-16 08:00:00	Gas SG 0.642.											
27-Oct-16 08:00:00	36	0.8	208	34	89	100	7.0	4.00	9.0	38000		9387.8
27-Oct-16 08:15:00	36	0.8	206	34	89	100	7.0	4.00	9.0	38000		9388.9
27-Oct-16 08:30:00	36	0.8	202	35	89	100	7.0	4.00	9.0	38000		9390.0
27-Oct-16 08:45:00	36	0.8	209	35	87	100	7.0	4.00	9.0	38000		9391.2
27-Oct-16 09:00:00	36	0.8	204	36	89	100	7.0	4.00	9.0	38000		9392.4
27-Oct-16 09:15:00	36	0.8	205	36	89	100	7.0	4.00	9.0	38000		9393.3
27-Oct-16 09:30:00	36	0.8	207	37	87	100	7.0	4.00	9.0	38000		9394.2
27-Oct-16 09:45:00	36	0.4	205	37	89	100	7.0	4.00	9.0	38000		9395.1
27-Oct-16 10:00:00	36	-0.0	206	38	89	100	7.0	4.00	9.0	38000		9396.0
27-Oct-16 10:15:00	36	-2.1	203	38	88	100	7.0	4.00	9.0	38000		9397.1
27-Oct-16 10:30:00	36	-2.1	216	39	89	100	7.0	4.00	9.0	38000		9398.1
27-Oct-16 10:45:00	36	-2.1	209	39	89	100	7.0	4.00	9.0	38000		9399.1
27-Oct-16 11:00:00	BSW 100% no solids, H2S9ppm, CO2 4%, Gas SG 0.642.											
27-Oct-16 11:00:00	36	-2.1	211	40	89	100	7.0	4.00	9.0	39000		9400.2
27-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=66.8mS@32.1degC,Water Density=1011kg/m3@34.4DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-230.9mV2.											
27-Oct-16 11:15:00	36	-2.1	211	40	89	100	7.0	4.00	9.0	39000		9401.3
27-Oct-16 11:30:00	36	-2.1	207	40	88	100	7.0	4.00	9.0	39000		9402.5
27-Oct-16 11:45:00	36	-2.1	209	41	87	100	7.0	4.00	9.0	39000		9403.7
27-Oct-16 12:00:00	36	-2.1	207	41	89	100	7.0	4.00	9.0	39000		9404.9
27-Oct-16 12:15:00	36	-1.9	206	40	89	100	7.0	4.00	9.0	39000		9406.0
27-Oct-16 12:30:00	36	-1.9	210	41	89	100	7.0	4.00	9.0	39000		9407.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
27-Oct-16 12:45:00	36	-1.9	210	41	89	100	7.0	4.00	9.0	39000		9408.3
27-Oct-16 13:00:00	36	-1.9	210	41	89	100	7.0	4.00	9.0	39000		9409.5
27-Oct-16 13:15:00	36	-1.9	212	40	89	100	7.0	4.00	9.0	39000		9410.4
27-Oct-16 13:30:00	36	-1.9	202	40	89	100	7.0	4.00	9.0	39000		9411.3
27-Oct-16 13:45:00	36	-1.9	208	39	89	100	7.0	4.00	9.0	39000		9412.2
27-Oct-16 14:00:00	Gas SG 0.644.											
27-Oct-16 14:00:00	36	-1.9	200	40	89	100	7.0	4.00	9.0	39000		9413.1
27-Oct-16 14:15:00	36	-1.9	209	41	87	100	7.0	4.00	9.0	39000		9414.2
27-Oct-16 14:30:00	36	-1.9	210	41	89	100	7.0	4.00	9.0	39000		9415.2
27-Oct-16 14:45:00	36	-1.9	208	40	89	100	7.0	4.00	9.0	39000		9416.2
27-Oct-16 15:00:00	36	-2.0	206	41	90	100	7.0	4.00	9.0	39000		9417.3
27-Oct-16 15:15:00	36	-1.9	201	40	89	100	7.0	4.00	9.0	39000		9418.3
27-Oct-16 15:30:00	36	-1.9	205	39	89	100	7.0	4.00	9.0	39000		9419.3
27-Oct-16 15:45:00	36	-1.9	205	39	91	100	7.0	4.00	9.0	39000		9420.4
27-Oct-16 16:00:00	36	-1.9	204	39	90	100	7.0	4.00	9.0	39000		9421.4
27-Oct-16 16:15:00	36	-1.9	203	40	89	100	7.0	4.00	9.0	39000		9422.2
27-Oct-16 16:30:00	36	-1.9	207	40	89	100	7.0	4.00	9.0	39000		9423.0
27-Oct-16 16:45:00	36	-4.7	205	39	90	100	7.0	4.00	9.0	39000		9423.8
27-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4% Gas SG 0.646.											
27-Oct-16 17:00:00	Took Isotube sample #35 from separator gas line at 40degC 79psia.											
27-Oct-16 17:00:00	Water sample from VX: ph=7, Electrical Conductivity=68.78mS@34.2degC,Water Density=1011.6kg/m3@34.6DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-250.4mV2.											
27-Oct-16 17:00:00	36	-1.9	203	37	89	100	7.0	4.00	8.0	38400		9424.6
27-Oct-16 17:10:00	Pumped out 61.26 bbls from tank to pond.											
27-Oct-16 17:15:00	36	-1.8	213	37	89	100	7.0	4.00	8.0	38400		9425.5
27-Oct-16 17:30:00	36	-1.9	204	37	90	100	7.0	4.00	8.0	38400		9426.5
27-Oct-16 17:45:00	36	-1.9	201	36	89	100	7.0	4.00	8.0	38400		9427.4
27-Oct-16 18:00:00	36	-1.7	209	36	90	100	7.0	4.00	8.0	38400		9428.3
27-Oct-16 18:15:00	36	-1.7	205	36	90	100	7.0	4.00	8.0	38400		9429.3
27-Oct-16 18:30:00	36	-1.7	204	35	90	100	7.0	4.00	8.0	38400		9430.4
27-Oct-16 18:45:00	36	-1.7	203	35	89	100	7.0	4.00	8.0	38400		9431.4
27-Oct-16 19:00:00	36	1.2	208	34	89	100	7.0	4.00	8.0	38400		9432.5
27-Oct-16 19:15:00	36	1.2	202	34	90	100	7.0	4.00	8.0	38400		9433.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
27-Oct-16 19:30:00	36	1.2	201	34	89	100	7.0	4.00	8.0	38400		9434.5
27-Oct-16 19:45:00	36	1.2	203	33	89	100	7.0	4.00	8.0	38400		9435.6
27-Oct-16 20:00:00	36	1.3	203	33	89	100	7.0	4.00	8.0	38400		9436.6
27-Oct-16 20:15:00	36	4.0	206	33	90	100	7.0	4.00	8.0	38400		9437.5
27-Oct-16 20:30:00	36	4.3	199	33	89	100	7.0	4.00	8.0	38400		9438.4
27-Oct-16 20:45:00	36	4.1	204	33	90	100	7.0	4.00	8.0	38400		9439.4
27-Oct-16 21:00:00	36	4.1	201	33	89	100	7.0	4.00	8.0	38400		9440.3
27-Oct-16 21:15:00	36	4.3	210	33	89	100	7.0	4.00	8.0	38400		8657.5
27-Oct-16 21:30:00	36	4.1	203	33	89	100	7.0	4.00	8.0	38400		7874.8
27-Oct-16 21:45:00	36	1.2	202	33	89	100	7.0	4.00	8.0	38400		7092.0
27-Oct-16 22:00:00	36	2.8	202	33	90	100	7.0	4.00	8.0	38400		6309.2
27-Oct-16 22:15:00	36	4.1	204	33	90	100	7.0	4.00	8.0	38400		7094.1
27-Oct-16 22:30:00	36	1.0	202	33	90	100	7.0	4.00	8.0	38400		7878.9
27-Oct-16 22:45:00	36	1.2	205	33	89	100	7.0	4.00	8.0	38400		8663.7
27-Oct-16 23:00:00	BSW 100% no solids, H2S 9ppm, CO2 4% Gas SG 0.646.											
27-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=60.40mS@26.4degC,Water Density=1013.1kg/m3@28.6DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-240.7mV2.											
27-Oct-16 23:00:00	36	1.0	199	33	89	100	7.0	4.00	9.0	39000		9448.5
27-Oct-16 23:15:00	36	3.8	205	33	89	100	7.0	4.00	9.0	39000		9449.5
27-Oct-16 23:30:00	36	1.8	199	33	89	100	7.0	4.00	9.0	39000		9450.4
27-Oct-16 23:45:00	36	4.3	200	33	89	100	7.0	4.00	9.0	39000		9451.3
28-Oct-16 00:00:00	36	4.1	196	33	89	100	7.0	4.00	9.0	39000		9452.2
28-Oct-16 00:15:00	36	4.3	208	32	89	100	7.0	4.00	9.0	39000		9453.1
28-Oct-16 00:30:00	36	4.1	197	33	90	100	7.0	4.00	9.0	39000		9454.1
28-Oct-16 00:45:00	36	4.3	198	32	89	100	7.0	4.00	9.0	39000		9455.0
28-Oct-16 01:00:00	36	4.1	203	32	89	100	7.0	4.00	9.0	39000		9455.9
28-Oct-16 01:15:00	36	4.3	198	32	89	100	7.0	4.00	9.0	39000		9456.8
28-Oct-16 01:30:00	36	4.2	201	32	89	100	7.0	4.00	9.0	39000		9457.8
28-Oct-16 01:45:00	36	4.2	203	32	90	100	7.0	4.00	9.0	39000		9458.7
28-Oct-16 02:00:00	36	4.1	207	32	90	100	7.0	4.00	9.0	39000		9459.6
28-Oct-16 02:15:00	36	4.1	198	32	90	100	7.0	4.00	9.0	39000		9460.6
28-Oct-16 02:30:00	36	4.1	201	32	89	100	7.0	4.00	9.0	39000		9461.7
28-Oct-16 02:45:00	36	4.3	205	32	89	100	7.0	4.00	9.0	39000		9462.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
28-Oct-16 03:00:00	36	4.1	196	31	89	100	7.0	4.00	9.0	39000		9463.7
28-Oct-16 03:05:00	WHP dropping, well slugging.											
28-Oct-16 03:15:00	36	4.3	223	32	92	100	7.0	4.00	9.0	39000		9464.7
28-Oct-16 03:30:00	36	4.1	184	32	89	100	7.0	4.00	9.0	39000		9465.6
28-Oct-16 03:45:00	36	4.1	204	32	90	100	7.0	4.00	9.0	39000		9466.5
28-Oct-16 04:00:00	36	4.3	206	31	89	100	7.0	4.00	9.0	39000		9467.4
28-Oct-16 04:15:00	36	4.1	195	32	90	100	7.0	4.00	9.0	39000		9468.3
28-Oct-16 04:30:00	36	4.1	194	31	89	100	7.0	4.00	9.0	39000		9469.3
28-Oct-16 04:45:00	36	4.1	198	31	90	100	7.0	4.00	9.0	39000		9470.2
28-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4% Gas SG 0.646.											
28-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=57.36mS@24degC,Water Density=1013.4kg/m3@27.1DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-245.7mV2.											
28-Oct-16 05:00:00	36	4.1	199	31	90	100	7.0	4.00	9.0	39000		9471.1
28-Oct-16 05:15:00	36	4.1	204	31	90	100	7.0	4.00	9.0	39000		9472.0
28-Oct-16 05:30:00	36	4.1	200	31	89	100	7.0	4.00	9.0	39000		9472.9
28-Oct-16 05:45:00	36	4.2	204	31	90	100	7.0	4.00	9.0	39000		9473.9
28-Oct-16 06:00:00	36	4.1	197	31	89	100	7.0	4.00	9.0	39000		9474.8
28-Oct-16 06:15:00	36	4.1	198	31	89	100	7.0	4.00	9.0	39000		9475.9
28-Oct-16 06:30:00	36	4.2	197	31	89	100	7.0	4.00	9.0	39000		9477.1
28-Oct-16 06:45:00	36	4.1	198	32	89	100	7.0	4.00	9.0	39000		9478.2
28-Oct-16 07:00:00	36	3.9	205	32	89	100	7.0	4.00	9.0	39000		9479.4
28-Oct-16 07:15:00	36	3.9	202	33	89	100	7.0	4.00	9.0	39000		9480.2
28-Oct-16 07:30:00	36	1.8	201	33	89	100	7.0	4.00	9.0	39000		9481.0
28-Oct-16 07:45:00	36	1.0	201	34	89	100	7.0	4.00	9.0	39000		9481.8
28-Oct-16 08:00:00	Gas SG 0.644.											
28-Oct-16 08:00:00	36	0.9	205	34	89	100	7.0	4.00	9.0	39000		9482.6
28-Oct-16 08:15:00	36	1.0	205	35	89	100	7.0	4.00	9.0	39000		9483.6
28-Oct-16 08:30:00	36	0.9	206	35	89	100	7.0	4.00	9.0	39000		9484.7
28-Oct-16 08:45:00	36	0.9	200	36	89	100	7.0	4.00	9.0	39000		9485.7
28-Oct-16 09:00:00	36	1.0	211	36	89	100	7.0	4.00	9.0	39000		9486.7
28-Oct-16 09:15:00	36	-1.4	200	37	89	100	7.0	4.00	9.0	39000		9487.6
28-Oct-16 09:30:00	36	-1.9	200	37	89	100	7.0	4.00	9.0	39000		9488.6
28-Oct-16 09:45:00	36	-1.9	205	38	89	100	7.0	4.00	9.0	39000		9489.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
28-Oct-16 10:00:00	36	-1.8	210	38	89	100	7.0	4.00	9.0	39000		9490.4
28-Oct-16 10:15:00	36	-1.9	207	39	89	100	7.0	4.00	9.0	39000		9491.2
28-Oct-16 10:30:00	36	-1.9	211	39	89	100	7.0	4.00	9.0	39000		9492.0
28-Oct-16 10:45:00	Flushed VX water port, removed all old debris.											
28-Oct-16 10:45:00	36	-1.9	205	40	90	100	7.0	4.00	9.0	39000		9492.8
28-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.											
28-Oct-16 11:00:00	36	-1.9	204	40	90	100	7.0	4.00	8.0	39400		9493.6
28-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=71.75mS@35.8degC,Water Density=1010.2kg/m3@37.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-248.9mV2.											
28-Oct-16 11:15:00	Pumped out 69.54 bbls from tank to pond.											
28-Oct-16 11:15:00	36	-1.9	204	40	89	100	7.0	4.00	8.0	39400		9494.4
28-Oct-16 11:30:00	36	-1.8	211	40	90	100	7.0	4.00	8.0	39400		9495.2
28-Oct-16 11:45:00	36	-1.7	204	40	90	100	7.0	4.00	8.0	39400		9496.0
28-Oct-16 12:00:00	36	-2.1	204	41	90	100	7.0	4.00	8.0	39400		9496.9
28-Oct-16 12:15:00	36	-1.7	208	40	88	100	7.0	4.00	8.0	39400		9497.8
28-Oct-16 12:30:00	36	-2.5	202	40	89	100	7.0	4.00	8.0	39400		9498.7
28-Oct-16 12:45:00	36	-1.9	204	40	89	100	7.0	4.00	8.0	39400		9499.6
28-Oct-16 13:00:00	36	-1.9	207	41	89	100	7.0	4.00	8.0	39400		9500.5
28-Oct-16 13:15:00	36	-1.7	211	41	89	100	7.0	4.00	8.0	39400		9501.6
28-Oct-16 13:30:00	36	-1.9	207	41	89	100	7.0	4.00	8.0	39400		9502.6
28-Oct-16 13:45:00	36	-1.9	210	40	89	100	7.0	4.00	8.0	39400		9503.6
28-Oct-16 14:00:00	Gas SG 0.644.											
28-Oct-16 14:00:00	36	-1.7	205	41	89	100	7.0	4.00	8.0	39400		9504.7
28-Oct-16 14:15:00	36	-2.6	208	41	90	100	7.0	4.00	8.0	39400		9505.5
28-Oct-16 14:30:00	36	-4.6	205	40	90	100	7.0	4.00	8.0	39400		9506.3
28-Oct-16 14:45:00	36	-1.9	206	40	89	100	7.0	4.00	8.0	39400		9507.1
28-Oct-16 15:00:00	36	-2.1	207	39	89	100	7.0	4.00	8.0	39400		9507.9
28-Oct-16 15:15:00	36	-1.7	206	39	91	100	7.0	4.00	8.0	39400		9509.0
28-Oct-16 15:30:00	36	-2.6	198	40	90	100	7.0	4.00	8.0	39400		9510.2
28-Oct-16 15:45:00	36	-4.9	203	40	90	100	7.0	4.00	8.0	39400		9511.3
28-Oct-16 16:00:00	36	-1.7	208	38	90	100	7.0	4.00	8.0	39400		9512.5
28-Oct-16 16:15:00	36	-1.9	202	38	92	100	7.0	4.00	8.0	39400		9513.1
28-Oct-16 16:30:00	36	-1.7	196	38	87	100	7.0	4.00	8.0	39400		9513.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
28-Oct-16 16:33:00	Well slugging.											
28-Oct-16 16:45:00	36	-1.7	221	39	95	100	7.0	4.00	8.0	39400		9514.2
28-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%. Gas SG 0.642.											
28-Oct-16 17:00:00	36	-1.7	197	38	89	100	7.0	4.00	8.0	40000		9514.8
28-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=71.67mS@34.8degC,Water Density=1011.5kg/m3@35.5DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-259.7mV2.											
28-Oct-16 17:15:00	36	-1.7	206	36	91	100	7.0	4.00	8.0	40000		9515.8
28-Oct-16 17:30:00	36	-1.7	205	36	90	100	7.0	4.00	8.0	40000		9516.9
28-Oct-16 17:45:00	36	-1.7	206	36	90	100	7.0	4.00	8.0	40000		9517.9
28-Oct-16 18:00:00	36	-1.7	202	36	90	100	7.0	4.00	8.0	40000		9518.9
28-Oct-16 18:15:00	36	-1.7	202	36	90	100	7.0	4.00	8.0	40000		9520.1
28-Oct-16 18:30:00	36	-1.7	208	35	92	100	7.0	4.00	8.0	40000		9521.2
28-Oct-16 18:45:00	36	-1.6	207	35	89	100	7.0	4.00	8.0	40000		9522.4
28-Oct-16 19:00:00	36	-1.6	201	35	90	100	7.0	4.00	8.0	40000		9523.5
28-Oct-16 19:15:00	36	1.2	204	35	90	100	7.0	4.00	8.0	40000		9524.3
28-Oct-16 19:30:00	36	1.2	208	34	89	100	7.0	4.00	8.0	40000		9525.1
28-Oct-16 19:45:00	36	1.4	201	34	90	100	7.0	4.00	8.0	40000		9525.9
28-Oct-16 20:00:00	36	1.2	205	34	92	100	7.0	4.00	8.0	40000		9526.8
28-Oct-16 20:15:00	36	1.2	202	34	92	100	7.0	4.00	8.0	40000		9527.8
28-Oct-16 20:30:00	36	1.3	207	34	92	100	7.0	4.00	8.0	40000		9528.8
28-Oct-16 20:45:00	36	1.2	198	34	90	100	7.0	4.00	8.0	40000		9529.9
28-Oct-16 21:00:00	36	1.2	207	34	91	100	7.0	4.00	8.0	40000		9530.9
28-Oct-16 21:15:00	36	1.2	198	33	92	100	7.0	4.00	8.0	40000		9531.8
28-Oct-16 21:30:00	36	1.2	198	33	90	100	7.0	4.00	8.0	40000		9532.7
28-Oct-16 21:45:00	36	1.2	202	33	92	100	7.0	4.00	8.0	40000		9533.6
28-Oct-16 22:00:00	36	1.2	202	33	90	100	7.0	4.00	8.0	40000		9534.6
28-Oct-16 22:15:00	36	1.2	191	33	90	100	7.0	4.00	8.0	40000		9535.5
28-Oct-16 22:30:00	36	1.2	205	33	90	100	7.0	4.00	8.0	40000		9536.4
28-Oct-16 22:45:00	36	1.2	196	33	90	100	7.0	4.00	8.0	40000		9537.3
28-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%. Gas SG 0.648.											
28-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=62.34mS@27.5degC,Water Density=1012.6kg/m3@29.8DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-250.1mV2.											
28-Oct-16 23:00:00	36	1.3	202	33	90	100	7.0	4.00	8.0	35000		9538.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
28-Oct-16 23:15:00	36	1.2	197	33	92	100	7.0	4.00	8.0	35000		9539.2
28-Oct-16 23:30:00	36	1.2	201	33	90	100	7.0	4.00	8.0	35000		9540.1
28-Oct-16 23:45:00	36	1.2	199	33	92	100	7.0	4.00	8.0	35000		9541.0
29-Oct-16 00:00:00	36	1.2	196	33	90	100	7.0	4.00	8.0	35000		9541.9
29-Oct-16 00:15:00	36	4.0	206	33	92	100	7.0	4.00	8.0	35000		9542.9
29-Oct-16 00:30:00	36	4.3	201	33	92	100	7.0	4.00	8.0	35000		9543.8
29-Oct-16 00:45:00	36	4.3	195	32	90	100	7.0	4.00	8.0	35000		9544.7
29-Oct-16 01:00:00	36	4.3	209	32	91	100	7.0	4.00	8.0	35000		9545.6
29-Oct-16 01:15:00	36	4.3	199	32	90	100	7.0	4.00	8.0	35000		9546.6
29-Oct-16 01:30:00	36	4.3	198	32	92	100	7.0	4.00	8.0	35000		9547.7
29-Oct-16 01:45:00	36	4.3	198	32	91	100	7.0	4.00	8.0	35000		9548.7
29-Oct-16 02:00:00	36	4.3	201	32	91	100	7.0	4.00	8.0	35000		9549.8
29-Oct-16 02:15:00	36	4.3	199	31	91	100	7.0	4.00	8.0	35000		9550.7
29-Oct-16 02:30:00	36	4.3	201	32	92	100	7.0	4.00	8.0	35000		9551.6
29-Oct-16 02:45:00	36	4.3	201	31	90	100	7.0	4.00	8.0	35000		9552.5
29-Oct-16 03:00:00	WHP dropping, well slugging.											
29-Oct-16 03:00:00	36	4.3	198	31	91	100	7.0	4.00	8.0	35000		9553.4
29-Oct-16 03:15:00	36	4.5	198	31	90	100	7.0	4.00	8.0	35000		9554.2
29-Oct-16 03:30:00	36	4.3	194	31	92	100	7.0	4.00	8.0	35000		9555.0
29-Oct-16 03:45:00	36	4.3	202	31	91	100	7.0	4.00	8.0	35000		9555.8
29-Oct-16 04:00:00	36	4.3	195	32	91	100	7.0	4.00	8.0	35000		9556.6
29-Oct-16 04:15:00	36	4.1	196	32	91	100	7.0	4.00	8.0	35000		9557.6
29-Oct-16 04:30:00	36	4.3	198	31	92	100	7.0	4.00	8.0	35000		9558.5
29-Oct-16 04:45:00	36	4.3	194	31	91	100	7.0	4.00	8.0	35000		9559.4
29-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=58.49mS@24.4degC,Water Density=1013.1kg/m3@27.6DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-255.8mV2.											
29-Oct-16 05:00:00	Pumped out 67.62bbls the ponds.											
29-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%. Gas SG 0.648.											
29-Oct-16 05:00:00	36	4.1	201	31	90	100	7.0	4.00	9.0	34000		9560.3
29-Oct-16 05:15:00	36	4.3	203	32	92	100	7.0	4.00	9.0	34000		9561.1
29-Oct-16 05:30:00	36	4.1	200	31	91	100	7.0	4.00	9.0	34000		9561.9
29-Oct-16 05:45:00	36	4.3	201	31	92	100	7.0	4.00	9.0	34000		9562.7
29-Oct-16 06:00:00	36	4.3	199	31	90	100	7.0	4.00	9.0	34000		9563.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
29-Oct-16 06:15:00	36	4.3	200	31	90	100	7.0	4.00	9.0	34000		9564.6
29-Oct-16 06:30:00	36	4.3	203	31	90	100	7.0	4.00	9.0	34000		9565.6
29-Oct-16 06:45:00	36	4.3	203	32	90	100	7.0	4.00	9.0	34000		9566.7
29-Oct-16 07:00:00	36	4.1	203	33	92	100	7.0	4.00	9.0	34000		9567.7
29-Oct-16 07:15:00	36	3.8	199	33	90	100	7.0	4.00	9.0	34000		9568.7
29-Oct-16 07:30:00	36	1.1	203	34	90	100	7.0	4.00	9.0	34000		9569.8
29-Oct-16 07:31:00	Well slugging.											
29-Oct-16 07:45:00	36	1.0	194	34	87	100	7.0	4.00	9.0	34000		9570.8
29-Oct-16 08:00:00	Gas SG 0.642.											
29-Oct-16 08:00:00	36	1.0	208	35	95	100	7.0	4.00	9.0	34000		9571.8
29-Oct-16 08:15:00	36	1.0	211	35	90	100	7.0	4.00	9.0	34000		9572.6
29-Oct-16 08:30:00	36	1.0	205	36	92	100	7.0	4.00	9.0	34000		9573.4
29-Oct-16 08:45:00	36	1.0	197	36	90	100	7.0	4.00	9.0	34000		9574.2
29-Oct-16 09:00:00	36	-1.9	207	37	92	100	7.0	4.00	9.0	34000		9575.0
29-Oct-16 09:15:00	36	-1.9	203	37	90	100	7.0	4.00	9.0	34000		9575.9
29-Oct-16 09:30:00	36	-1.9	203	38	91	100	7.0	4.00	9.0	34000		9576.7
29-Oct-16 09:45:00	36	-1.9	199	38	90	100	7.0	4.00	9.0	34000		9577.5
29-Oct-16 10:00:00	36	-1.9	204	39	90	100	7.0	4.00	9.0	34000		9578.3
29-Oct-16 10:15:00	36	-1.9	206	39	92	100	7.0	4.00	9.0	34000		9579.4
29-Oct-16 10:30:00	36	-1.9	205	39	90	100	7.0	4.00	9.0	34000		9580.6
29-Oct-16 10:41:25	Well Slugging.											
29-Oct-16 10:45:00	36	-1.9	230	40	93	100	7.0	4.00	9.0	34000		9581.7
29-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
29-Oct-16 11:00:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.											
29-Oct-16 11:00:00	36	-1.9	201	40	93	100	7.0	4.00	8.0	39000		9582.9
29-Oct-16 11:01:00	Water sample from VX: pH=7, Electrical Conductivity=66.8mS@31.7degC,Water Density=1011kg/m3@33.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-218.8mV2.											
29-Oct-16 11:15:00	36	-1.9	206	40	92	100	7.0	4.00	8.0	39000		9583.4
29-Oct-16 11:30:00	36	-1.9	199	40	90	100	7.0	4.00	8.0	39000		9584.0
29-Oct-16 11:45:00	36	-1.9	208	41	90	100	7.0	4.00	8.0	39000		9584.6
29-Oct-16 12:00:00	36	-1.9	200	41	92	100	7.0	4.00	8.0	39000		9585.2
29-Oct-16 12:15:00	36	-1.9	209	41	90	100	7.0	4.00	8.0	39000		9586.1
29-Oct-16 12:30:00	36	-1.8	204	41	90	100	7.0	4.00	8.0	39000		9587.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
29-Oct-16 12:45:00	36	-1.8	204	41	92	100	7.0	4.00	8.0	39000		9587.9
29-Oct-16 13:00:00	36	-1.8	202	41	92	100	7.0	4.00	8.0	39000		9588.9
29-Oct-16 13:15:00	36	-4.7	205	41	90	100	7.0	4.00	8.0	39000		9590.0
29-Oct-16 13:30:00	36	-1.7	200	41	92	100	7.0	4.00	8.0	39000		9591.2
29-Oct-16 13:45:00	36	-2.0	199	41	92	100	7.0	4.00	8.0	39000		9592.3
29-Oct-16 14:00:00	Gas SG 0.642.											
29-Oct-16 14:00:00	36	-3.0	207	40	92	100	7.0	4.00	8.0	39000		9593.5
29-Oct-16 14:15:00	36	-1.8	205	38	92	100	7.0	4.00	8.0	39000		9594.3
29-Oct-16 14:30:00	36	-1.7	201	39	92	100	7.0	4.00	8.0	39000		9595.1
29-Oct-16 14:45:00	36	-3.6	201	39	92	100	7.0	4.00	8.0	39000		9595.9
29-Oct-16 15:00:00	36	-1.7	202	38	92	100	7.0	4.00	8.0	39000		9596.7
29-Oct-16 15:15:00	36	-1.7	204	39	93	100	7.0	4.00	8.0	39000		9597.7
29-Oct-16 15:30:00	36	-1.8	199	39	92	100	7.0	4.00	8.0	39000		9598.7
29-Oct-16 15:45:00	36	-1.7	202	38	92	100	7.0	4.00	8.0	39000		9599.8
29-Oct-16 16:00:00	36	-1.7	203	37	90	100	7.0	4.00	8.0	39000		9600.8
29-Oct-16 16:15:00	36	-1.7	205	38	93	100	7.0	4.00	8.0	39000		9601.4
29-Oct-16 16:30:00	36	-1.7	199	38	92	100	7.0	4.00	8.0	39000		9602.0
29-Oct-16 16:45:00	36	-1.8	206	38	92	100	7.0	4.00	8.0	39000		9602.5
29-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
29-Oct-16 17:00:00	36	-1.7	202	38	92	100	7.0	4.00	8.0	39400		9603.1
29-Oct-16 17:01:00	Water sample from VX: pH=7, Electrical Conductivity=68.98mS@33.5degC,Water Density=1011kg/m3@34.6DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-249.4mV2.											
29-Oct-16 17:15:00	36	-1.7	203	37	93	100	7.0	4.00	8.0	39400		9604.1
29-Oct-16 17:30:00	36	-1.7	200	37	92	100	7.0	4.00	8.0	39400		9605.2
29-Oct-16 17:45:00	36	-1.7	207	37	92	100	7.0	4.00	8.0	39400		9606.2
29-Oct-16 17:50:00	WHP dropping, well slugging.											
29-Oct-16 18:00:00	36	-1.7	183	36	84	100	7.0	4.00	8.0	39400		9607.3
29-Oct-16 18:15:00	36	-1.7	222	36	99	100	7.0	4.00	8.0	39400		9608.2
29-Oct-16 18:30:00	36	-1.7	196	36	92	100	7.0	4.00	8.0	39400		9609.1
29-Oct-16 18:45:00	36	-1.5	204	35	94	100	7.0	4.00	8.0	39400		9610.0
29-Oct-16 19:00:00	36	-1.7	203	35	93	100	7.0	4.00	8.0	39400		9610.9
29-Oct-16 19:15:00	36	-1.4	197	35	93	100	7.0	4.00	8.0	39400		9612.1
29-Oct-16 19:30:00	36	1.3	195	34	93	100	7.0	4.00	8.0	39400		9613.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
29-Oct-16 19:45:00	36	1.4	202	34	92	100	7.0	4.00	8.0	39400		9614.4
29-Oct-16 20:00:00	36	1.4	200	34	92	100	7.0	4.00	8.0	39400		9615.5
29-Oct-16 20:15:00	36	1.4	205	34	92	100	7.0	4.00	8.0	39400		9616.3
29-Oct-16 20:30:00	36	1.4	198	33	92	100	7.0	4.00	8.0	39400		9617.1
29-Oct-16 20:45:00	36	1.4	203	33	92	100	7.0	4.00	8.0	39400		9617.9
29-Oct-16 21:00:00	36	1.4	196	33	92	100	7.0	4.00	8.0	39400		9618.8
29-Oct-16 21:15:00	36	4.3	202	32	91	100	7.0	4.00	8.0	39400		9619.4
29-Oct-16 21:30:00	36	1.4	198	33	92	100	7.0	4.00	8.0	39400		9620.1
29-Oct-16 21:45:00	36	1.2	201	33	93	100	7.0	4.00	8.0	39400		9620.8
29-Oct-16 22:00:00	36	1.2	202	33	92	100	7.0	4.00	8.0	39400		9621.5
29-Oct-16 22:15:00	36	1.4	204	33	92	100	7.0	4.00	8.0	39400		9622.4
29-Oct-16 22:30:00	36	1.2	201	33	91	100	7.0	4.00	8.0	39400		9623.4
29-Oct-16 22:45:00	WHP dropping, well slugging.											
29-Oct-16 22:45:00	36	1.3	197	33	92	100	7.0	4.00	8.0	39400		9624.3
29-Oct-16 23:00:00	BSW 100% no solids, H2S 10ppm, CO2 4.5%, Gas SG 0.646.											
29-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=64.76mS@29.0degC,Water Density=1012.5kg/m3@31DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-232.5mV2.											
29-Oct-16 23:00:00	Pumped 64.86 bbls from tank to the ponds.											
29-Oct-16 23:00:00	36	1.6	226	33	89	100	7.0	4.50	10.0	35000		9625.2
29-Oct-16 23:15:00	36	3.9	215	33	100	100	7.0	4.50	10.0	35000		9625.9
29-Oct-16 23:30:00	36	4.3	203	32	92	100	7.0	4.50	10.0	35000		9626.6
29-Oct-16 23:45:00	36	4.3	206	32	95	100	7.0	4.50	10.0	35000		9627.3
30-Oct-16 00:00:00	36	4.3	196	32	93	100	7.0	4.50	10.0	35000		9628.0
30-Oct-16 00:15:00	36	4.3	200	32	93	100	7.0	4.50	10.0	35000		9628.8
30-Oct-16 00:30:00	36	4.2	198	32	92	100	7.0	4.50	10.0	35000		9629.6
30-Oct-16 00:45:00	36	4.1	198	32	93	100	7.0	4.50	10.0	35000		9630.4
30-Oct-16 01:00:00	36	4.2	199	32	91	100	7.0	4.50	10.0	35000		9631.2
30-Oct-16 01:15:00	36	4.3	199	32	93	100	7.0	4.50	10.0	35000		9632.0
30-Oct-16 01:30:00	36	4.5	200	32	92	100	7.0	4.50	10.0	35000		9632.8
30-Oct-16 01:45:00	36	4.3	196	32	92	100	7.0	4.50	10.0	35000		9633.6
30-Oct-16 02:00:00	36	4.3	203	32	93	100	7.0	4.50	10.0	35000		9634.4
30-Oct-16 02:15:00	36	4.3	202	32	93	100	7.0	4.50	10.0	35000		9635.4
30-Oct-16 02:30:00	36	4.3	196	32	92	100	7.0	4.50	10.0	35000		9636.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
30-Oct-16 02:45:00	36	4.3	193	32	92	100	7.0	4.50	10.0	35000		9637.5
30-Oct-16 03:00:00	36	4.3	202	31	92	100	7.0	4.50	10.0	35000		9638.5
30-Oct-16 03:15:00	36	4.3	196	31	92	100	7.0	4.50	10.0	35000		9639.2
30-Oct-16 03:30:00	36	4.3	202	31	90	100	7.0	4.50	10.0	35000		9639.9
30-Oct-16 03:45:00	36	4.3	198	31	93	100	7.0	4.50	10.0	35000		9640.6
30-Oct-16 04:00:00	36	4.3	195	31	91	100	7.0	4.50	10.0	35000		9641.3
30-Oct-16 04:15:00	36	4.3	196	31	91	100	7.0	4.50	10.0	35000		9642.2
30-Oct-16 04:30:00	36	4.3	198	31	92	100	7.0	4.50	10.0	35000		9643.1
30-Oct-16 04:45:00	36	4.3	196	31	92	100	7.0	4.50	10.0	35000		9644.0
30-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.646.											
30-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=61.23mS@26.9degC,Water Density=1012.8kg/m3@28.4DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-244.2mV2.											
30-Oct-16 05:00:00	36	4.3	207	31	93	100	7.0	4.00	9.0	34000		9645.0
30-Oct-16 05:15:00	36	4.3	198	31	92	100	7.0	4.00	9.0	34000		9645.9
30-Oct-16 05:30:00	36	4.3	200	31	93	100	7.0	4.00	9.0	34000		9646.9
30-Oct-16 05:45:00	36	4.3	197	31	93	100	7.0	4.00	9.0	34000		9647.9
30-Oct-16 06:00:00	36	4.3	198	31	90	100	7.0	4.00	9.0	34000		9648.9
30-Oct-16 06:15:00	36	4.4	205	31	92	100	7.0	4.00	9.0	34000		9649.9
30-Oct-16 06:30:00	36	4.3	199	31	91	100	7.0	4.00	9.0	34000		9650.8
30-Oct-16 06:45:00	36	4.3	196	31	92	100	7.0	4.00	9.0	34000		9651.8
30-Oct-16 07:00:00	36	4.3	198	32	93	100	7.0	4.00	9.0	34000		9652.8
30-Oct-16 07:15:00	36	4.3	194	32	92	100	7.0	4.00	9.0	34000		9653.6
30-Oct-16 07:30:00	36	4.1	199	32	92	100	7.0	4.00	9.0	34000		9654.4
30-Oct-16 07:45:00	36	1.5	202	33	92	100	7.0	4.00	9.0	34000		9655.2
30-Oct-16 08:00:00	Gas SG 0.644.											
30-Oct-16 08:00:00	36	1.0	203	34	92	100	7.0	4.00	9.0	34000		9656.0
30-Oct-16 08:15:00	36	1.0	201	34	92	100	7.0	4.00	9.0	34000		9656.8
30-Oct-16 08:30:00	36	1.1	197	33	92	100	7.0	4.00	9.0	34000		9657.6
30-Oct-16 08:45:00	36	1.0	198	34	93	100	7.0	4.00	9.0	34000		9658.4
30-Oct-16 09:00:00	36	1.0	198	35	92	100	7.0	4.00	9.0	34000		9659.2
30-Oct-16 09:15:00	36	0.0	199	36	92	100	7.0	4.00	9.0	34000		9660.0
30-Oct-16 09:30:00	36	-1.5	199	37	92	100	7.0	4.00	9.0	34000		9660.8
30-Oct-16 09:45:00	36	-1.9	201	37	93	100	7.0	4.00	9.0	34000		9661.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
30-Oct-16 10:00:00	36	-1.9	204	38	92	100	7.0	4.00	9.0	34000		9662.5
30-Oct-16 10:15:00	36	-1.9	208	38	93	100	7.0	4.00	9.0	34000		9663.4
30-Oct-16 10:30:00	36	-1.9	201	39	93	100	7.0	4.00	9.0	34000		9664.3
30-Oct-16 10:45:00	36	-1.9	205	39	92	100	7.0	4.00	9.0	34000		9665.2
30-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.											
30-Oct-16 11:00:00	Water sample from VX: pH=7, Electrical Conductivity=67.82mS@32.2degC,Water Density=1011.4kg/m3@33.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-253.8mV2.											
30-Oct-16 11:00:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.											
30-Oct-16 11:00:00	36	-1.9	208	39	96	100	7.0	4.00	8.0	35000		9666.1
30-Oct-16 11:15:00	36	-1.9	199	39	92	100	7.0	4.00	8.0	35000		9666.9
30-Oct-16 11:30:00	36	-1.9	205	40	92	100	7.0	4.00	8.0	35000		9667.7
30-Oct-16 11:45:00	36	-1.9	202	40	92	100	7.0	4.00	8.0	35000		9668.5
30-Oct-16 12:00:00	36	-1.9	201	40	92	100	7.0	4.00	8.0	35000		9669.4
30-Oct-16 12:15:00	36	-2.1	199	40	94	100	7.0	4.00	8.0	35000		9670.3
30-Oct-16 12:30:00	36	-1.7	201	41	93	100	7.0	4.00	8.0	35000		9671.2
30-Oct-16 12:45:00	36	-1.7	203	40	92	100	7.0	4.00	8.0	35000		9672.1
30-Oct-16 13:00:00	36	-1.9	195	40	90	100	7.0	4.00	8.0	35000		9673.0
30-Oct-16 13:15:00	36	-1.7	218	41	96	100	7.0	4.00	8.0	35000		9673.8
30-Oct-16 13:30:00	36	-2.2	201	41	92	100	7.0	4.00	8.0	35000		9674.6
30-Oct-16 13:45:00	36	-3.3	208	42	95	100	7.0	4.00	8.0	35000		9675.4
30-Oct-16 14:00:00	Gas SG 0.646.											
30-Oct-16 14:00:00	36	-4.7	198	42	93	100	7.0	4.00	8.0	35000		9676.3
30-Oct-16 14:15:00	36	-1.7	215	41	93	100	7.0	4.00	8.0	35000		9677.1
30-Oct-16 14:30:00	36	-1.7	201	39	93	100	7.0	4.00	8.0	35000		9677.9
30-Oct-16 14:45:00	36	-1.5	198	39	93	100	7.0	4.00	8.0	35000		9678.7
30-Oct-16 15:00:00	36	-1.7	197	40	93	100	7.0	4.00	8.0	35000		9679.5
30-Oct-16 15:15:00	36	-4.7	194	41	93	100	7.0	4.00	8.0	35000		9680.3
30-Oct-16 15:30:00	36	-4.7	205	41	94	100	7.0	4.00	8.0	35000		9681.1
30-Oct-16 15:45:00	36	-4.7	202	40	93	100	7.0	4.00	8.0	35000		9681.9
30-Oct-16 16:00:00	Took ALS sample from Separator, cumulative=9682.7bbls, EC=70.8mS@34.2degC.											
30-Oct-16 16:00:00	36	-4.7	204	40	95	100	7.0	4.00	8.0	35000		9682.7
30-Oct-16 16:15:00	36	-4.7	202	39	95	100	7.0	4.00	8.0	35000		9683.7
30-Oct-16 16:30:00	36	-4.7	206	39	95	100	7.0	4.00	8.0	35000		9684.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
30-Oct-16 16:45:00	36	-4.7	195	39	93	100	7.0	4.00	8.0	35000		9685.8
30-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.646.											
30-Oct-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=68.35mS@32degC,Water Density=1012.2kg/m3@33.8DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-269mV2.											
30-Oct-16 17:00:00	36	-4.5	206	39	93	100	7.0	4.00	8.0	35000		9686.8
30-Oct-16 17:15:00	36	-3.2	206	37	95	100	7.0	4.00	8.0	35000		9687.4
30-Oct-16 17:30:00	36	-1.8	201	37	93	100	7.0	4.00	8.0	35000		9688.0
30-Oct-16 17:45:00	36	-1.5	199	37	93	100	7.0	4.00	8.0	35000		9688.6
30-Oct-16 18:00:00	36	-1.5	221	36	95	100	7.0	4.00	8.0	35000		9689.1
30-Oct-16 18:15:00	36	-1.5	185	36	93	100	7.0	4.00	8.0	35000		9690.0
30-Oct-16 18:30:00	36	-1.4	207	36	95	100	7.0	4.00	8.0	35000		9691.0
30-Oct-16 18:45:00	36	-1.5	194	35	93	100	7.0	4.00	8.0	35000		9691.9
30-Oct-16 19:00:00	36	-1.4	201	35	95	100	7.0	4.00	8.0	35000		9692.8
30-Oct-16 19:15:00	36	-1.5	205	35	93	100	7.0	4.00	8.0	35000		9693.6
30-Oct-16 19:30:00	36	-1.5	196	35	93	100	7.0	4.00	8.0	35000		9694.4
30-Oct-16 19:45:00	36	-1.2	201	35	95	100	7.0	4.00	8.0	35000		9695.2
30-Oct-16 20:00:00	Gas SG 0.645.											
30-Oct-16 20:00:00	36	-1.4	200	35	93	100	7.0	4.00	8.0	35000		9696.0
30-Oct-16 20:15:00	36	0.8	205	34	93	100	7.0	4.00	8.0	35000		9697.1
30-Oct-16 20:30:00	36	1.4	205	34	93	100	7.0	4.00	8.0	35000		9698.1
30-Oct-16 20:45:00	36	1.4	200	34	93	100	7.0	4.00	8.0	35000		9699.1
30-Oct-16 21:00:00	36	1.2	200	33	95	100	7.0	4.00	8.0	35000		9700.2
30-Oct-16 21:15:00	36	1.4	201	33	93	100	7.0	4.00	8.0	35000		9701.0
30-Oct-16 21:30:00	36	1.3	198	33	93	100	7.0	4.00	8.0	35000		9701.8
30-Oct-16 21:45:00	36	1.2	198	33	93	100	7.0	4.00	8.0	35000		9702.6
30-Oct-16 22:00:00	36	1.2	203	33	93	100	7.0	4.00	8.0	35000		9703.4
30-Oct-16 22:15:00	36	1.2	202	33	93	100	7.0	4.00	8.0	35000		9704.3
30-Oct-16 22:30:00	36	1.2	198	33	92	100	7.0	4.00	8.0	35000		9705.2
30-Oct-16 22:45:00	36	1.2	208	33	93	100	7.0	4.00	8.0	35000		9706.1
30-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.646.											
30-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=59.66mS@25.6degC,Water Density=1013.6kg/m3@27.2DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-205.8mV2.											
30-Oct-16 23:00:00	36	1.2	196	33	92	100	7.0	4.00	8.0	34000		9707.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
30-Oct-16 23:15:00	36	1.3	198	33	93	100	7.0	4.00	8.0	34000		9707.9
30-Oct-16 23:30:00	36	1.4	197	33	93	100	7.0	4.00	8.0	34000		9708.7
30-Oct-16 23:45:00	36	1.4	198	32	93	100	7.0	4.00	8.0	34000		9709.5
31-Oct-16 00:00:00	36	1.4	199	32	93	100	7.0	4.00	8.0	34000		9710.3
31-Oct-16 00:15:00	36	1.4	199	32	92	100	7.0	4.00	8.0	34000		9711.1
31-Oct-16 00:30:00	36	1.4	198	32	93	100	7.0	4.00	8.0	34000		9711.9
31-Oct-16 00:45:00	36	1.3	201	32	94	100	7.0	4.00	8.0	34000		9712.7
31-Oct-16 01:00:00	36	1.4	192	32	92	100	7.0	4.00	8.0	34000		9713.5
31-Oct-16 01:15:00	36	1.4	198	32	93	100	7.0	4.00	8.0	34000		9714.4
31-Oct-16 01:30:00	36	1.3	203	32	92	100	7.0	4.00	8.0	34000		9715.4
31-Oct-16 01:45:00	36	1.2	197	32	93	100	7.0	4.00	8.0	34000		9716.3
31-Oct-16 02:00:00	Gas SG 0.644.											
31-Oct-16 02:00:00	36	1.2	200	32	93	100	7.0	4.00	8.0	34000		9717.2
31-Oct-16 02:15:00	36	1.5	198	31	93	100	7.0	4.00	8.0	34000		9718.1
31-Oct-16 02:30:00	36	2.6	195	31	92	100	7.0	4.00	8.0	34000		9719.0
31-Oct-16 02:45:00	36	2.1	195	31	93	100	7.0	4.00	8.0	34000		9720.0
31-Oct-16 03:00:00	36	2.3	200	31	93	100	7.0	4.00	8.0	34000		9720.9
31-Oct-16 03:15:00	36	4.1	200	31	93	100	7.0	4.00	8.0	34000		9721.8
31-Oct-16 03:30:00	36	4.2	201	31	92	100	7.0	4.00	8.0	34000		9722.7
31-Oct-16 03:45:00	36	4.2	202	31	91	100	7.0	4.00	8.0	34000		9723.6
31-Oct-16 04:00:00	36	4.3	198	31	92	100	7.0	4.00	8.0	34000		9724.5
31-Oct-16 04:15:00	36	4.3	199	31	92	100	7.0	4.00	8.0	34000		9725.4
31-Oct-16 04:30:00	36	4.3	198	31	93	100	7.0	4.00	8.0	34000		9726.2
31-Oct-16 04:45:00	36	4.3	203	31	93	100	7.0	4.00	8.0	34000		9727.0
31-Oct-16 05:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.648.											
31-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=59.99mS@25.7degC,Water Density=1013.2kg/m3@27.8DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-225.7mV2.											
31-Oct-16 05:00:00	36	4.3	198	31	92	100	7.0	4.00	9.0	34000		9727.8
31-Oct-16 05:15:00	36	4.3	198	31	93	100	7.0	4.00	9.0	34000		9728.6
31-Oct-16 05:30:00	36	4.3	196	31	92	100	7.0	4.00	9.0	34000		9729.4
31-Oct-16 05:45:00	36	4.2	200	31	93	100	7.0	4.00	9.0	34000		9730.2
31-Oct-16 06:00:00	36	4.3	195	31	93	100	7.0	4.00	9.0	34000		9731.0
31-Oct-16 06:15:00	36	4.2	200	31	93	100	7.0	4.00	9.0	34000		9731.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
31-Oct-16 06:30:00	36	4.2	199	31	93	100	7.0	4.00	9.0	34000		9732.8
31-Oct-16 06:45:00	36	4.4	198	31	93	100	7.0	4.00	9.0	34000		9733.8
31-Oct-16 07:00:00	36	4.2	197	32	93	100	7.0	4.00	9.0	34000		9734.7
31-Oct-16 07:15:00	36	1.2	200	32	93	100	7.0	4.00	9.0	34000		9735.4
31-Oct-16 07:30:00	36	1.2	200	33	93	100	7.0	4.00	9.0	34000		9736.1
31-Oct-16 07:45:00	36	1.1	201	33	92	100	7.0	4.00	9.0	34000		9736.7
31-Oct-16 08:00:00	Gas SG=0.644.											
31-Oct-16 08:00:00	36	1.0	196	34	93	100	7.0	4.00	9.0	34000		9737.4
31-Oct-16 08:15:00	36	1.2	202	34	93	100	7.0	4.00	9.0	34000		9738.5
31-Oct-16 08:30:00	36	1.0	194	35	93	100	7.0	4.00	9.0	34000		9739.5
31-Oct-16 08:45:00	36	0.4	204	35	92	100	7.0	4.00	9.0	34000		9740.5
31-Oct-16 09:00:00	36	-1.5	199	36	93	100	7.0	4.00	9.0	34000		9741.6
31-Oct-16 09:15:00	36	-1.9	199	36	93	100	7.0	4.00	9.0	34000		9742.4
31-Oct-16 09:30:00	36	-1.9	205	37	93	100	7.0	4.00	9.0	34000		9743.2
31-Oct-16 09:45:00	36	-1.8	201	37	93	100	7.0	4.00	9.0	34000		9744.0
31-Oct-16 10:00:00	36	-1.8	199	38	92	100	7.0	4.00	9.0	34000		9744.8
31-Oct-16 10:15:00	36	-1.9	204	39	93	100	7.0	4.00	9.0	34000		9745.6
31-Oct-16 10:30:00	36	-1.9	202	39	93	100	7.0	4.00	9.0	34000		9746.4
31-Oct-16 10:45:00	36	-1.8	202	38	95	100	7.0	4.00	9.0	34000		9747.2
31-Oct-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
31-Oct-16 11:00:00	36	-1.7	199	39	94	100	7.0	4.00	8.0	35000		9748.0
31-Oct-16 11:01:00	Water sample from VX: pH=7, Electrical Conductivity=66.3mS@31.6degC,Water Density=1011.2kg/m3@31.6DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-238.5mV2.											
31-Oct-16 11:01:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.											
31-Oct-16 11:15:00	Pumped 61.8 bbls from tank to pond.											
31-Oct-16 11:15:00	36	-1.8	203	38	93	100	7.0	4.00	8.0	35000		9748.8
31-Oct-16 11:30:00	36	-1.7	200	38	95	100	7.0	4.00	8.0	35000		9749.6
31-Oct-16 11:45:00	36	-1.7	203	38	93	100	7.0	4.00	8.0	35000		9750.4
31-Oct-16 12:00:00	36	-1.8	202	39	95	100	7.0	4.00	8.0	35000		9751.2
31-Oct-16 12:15:00	36	-1.7	203	38	95	100	7.0	4.00	8.0	35000		9752.1
31-Oct-16 12:30:00	36	-1.8	203	40	95	100	7.0	4.00	8.0	35000		9753.1
31-Oct-16 12:45:00	36	-1.9	202	41	93	100	7.0	4.00	8.0	35000		9754.0
31-Oct-16 13:00:00	36	-2.7	202	41	94	100	7.0	4.00	8.0	35000		9754.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
31-Oct-16 13:15:00	36	-4.5	203	40	95	100	7.0	4.00	8.0	35000		9755.8
31-Oct-16 13:30:00	36	-1.7	202	38	95	100	7.0	4.00	8.0	35000		9756.8
31-Oct-16 13:45:00	36	-1.5	200	38	93	100	7.0	4.00	8.0	35000		9757.7
31-Oct-16 14:00:00	Gas SG=0.644.											
31-Oct-16 14:00:00	36	-1.8	201	41	95	100	7.0	4.00	8.0	35000		9758.6
31-Oct-16 14:15:00	36	-4.1	202	42	95	100	7.0	4.00	8.0	35000		9759.3
31-Oct-16 14:30:00	36	-4.7	200	41	95	100	7.0	4.00	8.0	35000		9760.0
31-Oct-16 14:45:00	36	-4.7	204	41	95	100	7.0	4.00	8.0	35000		9760.7
31-Oct-16 15:00:00	36	-3.2	201	38	95	100	7.0	4.00	8.0	35000		9761.4
31-Oct-16 15:15:00	36	-1.7	205	38	93	100	7.0	4.00	8.0	35000		9762.2
31-Oct-16 15:30:00	36	-1.6	206	38	95	100	7.0	4.00	8.0	35000		9763.0
31-Oct-16 15:45:00	36	-1.7	203	37	95	100	7.0	4.00	8.0	35000		9763.8
31-Oct-16 16:00:00	36	-1.5	195	36	95	100	7.0	4.00	8.0	35000		9764.6
31-Oct-16 16:15:00	36	-1.5	197	36	95	100	7.0	4.00	8.0	35000		9765.6
31-Oct-16 16:30:00	36	-1.5	201	36	93	100	7.0	4.00	8.0	35000		9766.6
31-Oct-16 16:45:00	36	-1.7	204	37	95	100	7.0	4.00	8.0	35000		9767.7
31-Oct-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
31-Oct-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=66.4mS@31.1degC,Water Density=1013.6kg/m3@31.1DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-222mV2.											
31-Oct-16 17:00:00	36	-1.6	195	36	93	100	7.0	4.00	8.0	39000		9768.7
31-Oct-16 17:01:00	MP on 36/64" Fixed Choke.											
31-Oct-16 17:01:00	Lowered 1.75" Orifice Plate.											
31-Oct-16 17:15:00	36	-1.5	206	36	95	100	7.0	4.00	8.0	39000	1.006	9769.6
31-Oct-16 17:30:00	36	-1.7	196	36	96	100	7.0	4.00	8.0	39000	1.013	9770.5
31-Oct-16 17:45:00	36	-1.7	200	36	96	100	7.0	4.00	8.0	39000	1.007	9771.5
31-Oct-16 18:00:00	36	-1.5	202	36	96	100	7.0	4.00	8.0	39000	1.015	9772.4
31-Oct-16 18:15:00	36	-1.5	196	35	96	100	7.0	4.00	8.0	39000	1.011	9773.2
31-Oct-16 18:30:00	36	-1.5	200	35	96	100	7.0	4.00	8.0	39000	1.009	9774.0
31-Oct-16 18:45:00	36	-1.5	206	35	96	100	7.0	4.00	8.0	39000	1.012	9774.8
31-Oct-16 19:00:00	36	-1.5	197	34	96	100	7.0	4.00	8.0	39000	1.011	9775.6
31-Oct-16 19:15:00	36	1.4	197	34	96	100	7.0	4.00	8.0	39000	1.011	9776.4
31-Oct-16 19:30:00	36	1.4	204	34	96	100	7.0	4.00	8.0	39000	1.007	9777.2
31-Oct-16 19:45:00	36	1.4	201	34	98	100	7.0	4.00	8.0	39000	1.011	9778.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
31-Oct-16 20:00:00	Gas SG=0.644.											
31-Oct-16 20:00:00	36	1.4	202	34	96	100	7.0	4.00	8.0	39000	1.006	9778.8
31-Oct-16 20:15:00	36	1.4	198	34	96	100	7.0	4.00	8.0	39000	1.010	9779.8
31-Oct-16 20:30:00	36	1.3	197	34	96	100	7.0	4.00	8.0	39000	1.005	9780.7
31-Oct-16 20:45:00	36	1.4	194	34	96	100	7.0	4.00	8.0	39000	1.010	9781.6
31-Oct-16 21:00:00	36	1.4	200	34	96	100	7.0	4.00	8.0	39000	1.008	9782.5
31-Oct-16 21:15:00	36	1.3	197	34	95	100	7.0	4.00	8.0	39000	1.013	9783.3
31-Oct-16 21:30:00	36	1.2	201	34	96	100	7.0	4.00	8.0	39000	1.010	9784.1
31-Oct-16 21:45:00	36	1.2	202	34	96	100	7.0	4.00	8.0	39000	1.015	9784.9
31-Oct-16 22:00:00	36	1.2	202	33	96	100	7.0	4.00	8.0	39000	1.011	9785.7
31-Oct-16 22:15:00	36	1.3	196	33	95	100	7.0	4.00	8.0	39000	1.013	9786.6
31-Oct-16 22:30:00	36	1.2	200	33	96	100	7.0	4.00	8.0	39000	1.007	9787.6
31-Oct-16 22:45:00	36	1.2	202	33	96	100	7.0	4.00	8.0	39000	1.010	9788.5
31-Oct-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
31-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=60.98mS@25.6degC,Water Density=1013.5kg/m3@27.5DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-287.5mV2.											
31-Oct-16 23:00:00	36	1.4	199	34	96	100	7.0	4.00	8.0	40000	1.016	9789.4
31-Oct-16 23:15:00	36	1.3	197	33	95	100	7.0	4.00	8.0	40000	1.003	9790.2
31-Oct-16 23:30:00	36	1.3	201	33	95	100	7.0	4.00	8.0	40000	1.017	9791.0
31-Oct-16 23:45:00	36	1.2	197	33	96	100	7.0	4.00	8.0	40000	1.011	9791.8
01-Nov-16 00:00:00	36	1.2	194	33	96	100	7.0	4.00	8.0	40000	1.012	9792.6
01-Nov-16 00:15:00	36	1.3	193	33	96	100	7.0	4.00	8.0	40000	1.012	9793.4
01-Nov-16 00:30:00	36	1.2	194	32	96	100	7.0	4.00	8.0	40000	1.010	9794.2
01-Nov-16 00:45:00	36	1.3	197	32	96	100	7.0	4.00	8.0	40000	1.009	9795.0
01-Nov-16 01:00:00	36	1.3	198	32	96	100	7.0	4.00	8.0	40000	1.013	9795.9
01-Nov-16 01:15:00	36	1.3	198	32	96	100	7.0	4.00	8.0	40000	1.012	9796.7
01-Nov-16 01:30:00	36	1.4	204	32	96	100	7.0	4.00	8.0	40000	1.009	9797.5
01-Nov-16 01:45:00	36	1.4	195	32	95	100	7.0	4.00	8.0	40000	1.014	9798.3
01-Nov-16 02:00:00	Gas SG=0.646.											
01-Nov-16 02:00:00	36	1.4	203	32	96	100	7.0	4.00	8.0	40000	1.010	9799.1
01-Nov-16 02:15:00	36	1.4	194	33	96	100	7.0	4.00	8.0	40000	1.009	9800.1
01-Nov-16 02:30:00	36	1.4	194	31	96	100	7.0	4.00	8.0	40000	1.012	9801.1
01-Nov-16 02:45:00	36	4.3	191	26	95	100	7.0	4.00	8.0	40000	1.008	9802.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
01-Nov-16 03:00:00	36	4.4	197	25	96	100	7.0	4.00	8.0	40000	1.007	9803.2
01-Nov-16 03:15:00	36	4.5	195	27	94	100	7.0	4.00	8.0	40000	1.009	9803.9
01-Nov-16 03:30:00	36	4.5	199	28	95	100	7.0	4.00	8.0	40000	1.008	9804.6
01-Nov-16 03:45:00	36	4.5	196	28	96	100	7.0	4.00	8.0	40000	1.010	9805.3
01-Nov-16 04:00:00	36	4.5	199	28	95	100	7.0	4.00	8.0	40000	1.013	9806.0
01-Nov-16 04:15:00	36	4.4	199	28	94	100	7.0	4.00	8.0	40000	1.012	9806.8
01-Nov-16 04:30:00	36	4.5	197	28	96	100	7.0	4.00	8.0	40000	1.011	9807.6
01-Nov-16 04:45:00	36	4.3	193	28	96	100	7.0	4.00	8.0	40000	1.012	9808.4
01-Nov-16 05:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.646.											
01-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=57.45mS@23.6degC,Water Density=1013.8kg/m3@25.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-297mV2.											
01-Nov-16 05:00:00	Pumped 61.64bbls from tank to pond.											
01-Nov-16 05:00:00	36	4.3	193	28	95	100	7.0	4.00	8.0	39000	1.011	9809.2
01-Nov-16 05:15:00	36	4.5	193	28	95	100	7.0	4.00	8.0	39000	1.014	9809.9
01-Nov-16 05:30:00	36	4.5	195	28	96	100	7.0	4.00	8.0	39000	1.007	9810.6
01-Nov-16 05:45:00	36	4.3	195	29	94	100	7.0	4.00	8.0	39000	1.010	9811.3
01-Nov-16 06:00:00	36	4.3	194	29	94	100	7.0	4.00	8.0	39000	1.007	9812.0
01-Nov-16 06:15:00	36	4.4	200	29	95	100	7.0	4.00	8.0	39000	1.007	9813.0
01-Nov-16 06:30:00	36	4.5	200	29	95	100	7.0	4.00	8.0	39000	1.009	9814.0
01-Nov-16 06:45:00	36	4.3	195	29	94	100	7.0	4.00	8.0	39000	1.014	9815.1
01-Nov-16 07:00:00	36	4.5	201	29	95	100	7.0	4.00	8.0	39000	1.011	9816.1
01-Nov-16 07:15:00	36	4.3	193	29	95	100	7.0	4.00	8.0	39000	1.013	9816.9
01-Nov-16 07:30:00	36	4.3	189	30	94	100	7.0	4.00	8.0	39000	1.011	9817.7
01-Nov-16 07:45:00	36	4.3	192	30	95	100	7.0	4.00	8.0	39000	1.009	9818.5
01-Nov-16 08:00:00	Gas SG 0.644.											
01-Nov-16 08:00:00	36	4.3	197	31	96	100	7.0	4.00	8.0	39000	1.011	9819.3
01-Nov-16 08:15:00	36	4.3	192	31	94	100	7.0	4.00	8.0	39000	1.011	9820.0
01-Nov-16 08:30:00	36	4.3	197	31	95	100	7.0	4.00	8.0	39000	1.015	9820.7
01-Nov-16 08:45:00	36	4.1	193	31	96	100	7.0	4.00	8.0	39000	1.015	9821.4
01-Nov-16 09:00:00	36	4.3	199	31	96	100	7.0	4.00	8.0	39000	1.008	9822.1
01-Nov-16 09:15:00	36	4.3	199	31	95	100	7.0	4.00	8.0	39000	1.013	9822.1
01-Nov-16 09:30:00	Started raining heavily, tank volumes may be slightly affected.											
01-Nov-16 09:30:00	36	4.3	195	25	95	100	7.0	4.00	8.0	39000	1.011	9822.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
01-Nov-16 09:45:00	36	4.5	191	21	95	100	7.0	4.00	8.0	39000	1.012	9822.1
01-Nov-16 10:00:00	36	4.4	190	21	94	100	7.0	4.00	8.0	39000	1.013	9822.1
01-Nov-16 10:15:00	36	4.4	194	22	94	100	7.0	4.00	8.0	39000	1.012	9824.3
01-Nov-16 10:30:00	36	4.3	199	22	96	100	7.0	4.00	8.0	39000	1.011	9826.4
01-Nov-16 10:45:00	36	4.5	194	23	94	100	7.0	4.00	8.0	39000	1.013	9828.6
01-Nov-16 11:00:00	Electrical Storm in area, decided to stop climbing on top of tank for straps until it had passed.											
01-Nov-16 11:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.08mS@21degC,Water Density=1014.7kg/m3@22.8DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-264.3mV2.											
01-Nov-16 11:00:00	BSW 100% no solids. H2S 9ppm, CO2 4%, Gas SG 0.642.											
01-Nov-16 11:00:00	36	4.5	192	22	94	100	7.0	4.00	9.0	39000	1.005	9830.8
01-Nov-16 11:05:00	Flushed VX water port, found approx. 2cc of sand in sample.											
01-Nov-16 11:15:00	36	4.5	198	22	96	100	7.0	4.00	9.0	39000	1.015	9830.8
01-Nov-16 11:30:00	36	4.5	191	22	94	100	7.0	4.00	9.0	39000	1.016	9830.8
01-Nov-16 11:45:00	36	4.5	191	21	94	100	7.0	4.00	9.0	39000	1.016	9830.8
01-Nov-16 12:00:00	36	4.5	191	22	94	100	7.0	4.00	9.0	39000	1.006	9830.8
01-Nov-16 12:15:00	36	4.3	193	24	96	100	7.0	4.00	9.0	39000	1.017	9833.5
01-Nov-16 12:30:00	36	4.3	190	24	94	100	7.0	4.00	9.0	39000	1.016	9836.1
01-Nov-16 12:45:00	36	4.4	191	24	95	100	7.0	4.00	9.0	39000	1.012	9838.7
01-Nov-16 13:00:00	Observed an increase of around 1bbl per hour at tank since rain started.											
01-Nov-16 13:00:00	36	4.5	197	24	94	100	7.0	4.00	9.0	39000	1.010	9841.4
01-Nov-16 13:15:00	36	4.3	193	25	94	100	7.0	4.00	9.0	39000	1.013	9842.1
01-Nov-16 13:30:00	Rain stopped.											
01-Nov-16 13:30:00	36	4.3	200	25	96	100	7.0	4.00	9.0	39000	1.013	9842.8
01-Nov-16 13:45:00	36	4.3	194	26	94	100	7.0	4.00	9.0	39000	1.015	9843.5
01-Nov-16 14:00:00	Gas SG 0.644.											
01-Nov-16 14:00:00	36	4.3	197	28	94	100	7.0	4.00	9.0	39000	1.014	9844.2
01-Nov-16 14:15:00	36	4.3	192	30	94	100	7.0	4.00	9.0	39000	1.017	9845.0
01-Nov-16 14:30:00	36	4.1	193	31	93	100	7.0	4.00	9.0	39000	1.013	9845.8
01-Nov-16 14:45:00	36	4.1	200	31	93	100	7.0	4.00	9.0	39000	1.017	9846.6
01-Nov-16 15:00:00	36	2.4	195	31	95	100	7.0	4.00	9.0	39000	1.017	9847.4
01-Nov-16 15:15:00	36	2.7	195	30	94	100	7.0	4.00	9.0	39000	1.016	9848.4
01-Nov-16 15:30:00	36	2.7	197	30	95	100	7.0	4.00	9.0	39000	1.007	9849.4
01-Nov-16 15:45:00	36	1.9	193	30	96	100	7.0	4.00	9.0	39000	1.022	9850.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
01-Nov-16 16:00:00	36	4.1	202	30	96	100	7.0	4.00	9.0	39000	1.017	9851.5
01-Nov-16 16:15:00	36	2.8	196	30	96	100	7.0	4.00	9.0	39000	1.017	9852.2
01-Nov-16 16:30:00	36	2.2	196	30	96	100	7.0	4.00	9.0	39000	1.011	9852.9
01-Nov-16 16:45:00	36	1.8	200	30	96	100	7.0	4.00	9.0	39000	1.016	9853.6
01-Nov-16 17:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.644.											
01-Nov-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=55.55mS@24.4degC,Water Density=1014kg/m3@25.9DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-192.7mV2.											
01-Nov-16 17:00:00	Took Isotube sample #36 from separator gas line at 82.5psia 31deg C.											
01-Nov-16 17:00:00	36	4.1	195	30	96	100	7.0	4.00	9.0	37000	1.009	9854.3
01-Nov-16 17:15:00	36	3.5	194	29	94	100	7.0	4.00	9.0	37000	1.018	9855.4
01-Nov-16 17:30:00	36	4.1	200	29	95	100	7.0	4.00	9.0	37000	1.006	9856.6
01-Nov-16 17:45:00	36	4.3	197	29	96	100	7.0	4.00	9.0	37000	1.012	9857.7
01-Nov-16 18:00:00	36	4.3	193	29	98	100	7.0	4.00	9.0	37000	1.020	9858.9
01-Nov-16 18:15:00	36	4.2	194	29	96	100	7.0	4.00	9.0	37000	1.011	9859.6
01-Nov-16 18:30:00	36	4.1	191	30	96	100	7.0	4.00	9.0	37000	1.011	9860.3
01-Nov-16 18:45:00	36	4.1	194	30	98	100	7.0	4.00	9.0	37000	1.015	9860.9
01-Nov-16 19:00:00	36	4.2	195	30	98	100	7.0	4.00	9.0	37000	1.010	9861.6
01-Nov-16 19:15:00	36	4.3	189	30	98	100	7.0	4.00	9.0	37000	1.016	9862.6
01-Nov-16 19:30:00	36	4.2	189	30	93	100	7.0	4.00	9.0	37000	1.001	9863.5
01-Nov-16 19:45:00	36	4.3	212	30	100	100	7.0	4.00	9.0	37000	1.006	9864.4
01-Nov-16 20:00:00	Gas SG 0.644.											
01-Nov-16 20:00:00	36	4.3	190	30	96	100	7.0	4.00	9.0	37000	1.032	9865.3
01-Nov-16 20:15:00	36	4.3	197	30	98	100	7.0	4.00	9.0	37000	1.016	9866.2
01-Nov-16 20:30:00	36	4.3	199	30	98	100	7.0	4.00	9.0	37000	1.014	9867.1
01-Nov-16 20:45:00	36	4.3	202	30	99	100	7.0	4.00	9.0	37000	1.017	9868.1
01-Nov-16 21:00:00	36	4.3	192	30	96	100	7.0	4.00	9.0	37000	1.014	9869.0
01-Nov-16 21:15:00	36	4.3	203	30	98	100	7.0	4.00	9.0	37000	1.012	9869.7
01-Nov-16 21:30:00	36	4.3	192	30	99	100	7.0	4.00	9.0	37000	1.017	9870.4
01-Nov-16 21:45:00	36	4.3	193	30	99	100	7.0	4.00	9.0	37000	1.012	9871.1
01-Nov-16 22:00:00	Pumped out 68 bbls from tank to pond.											
01-Nov-16 22:00:00	36	4.3	201	30	99	100	7.0	4.00	9.0	37000	1.011	9871.8
01-Nov-16 22:15:00	36	4.3	200	30	99	100	7.0	4.00	9.0	37000	1.014	9872.4
01-Nov-16 22:30:00	36	4.5	193	30	99	100	7.0	4.00	9.0	37000	1.015	9873.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
01-Nov-16 22:45:00	36	4.3	195	30	98	100	7.0	4.00	9.0	37000	1.011	9873.8
01-Nov-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.											
01-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.79mS@24.1degC,Water Density=1014.5kg/m3@25.2DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-204.6mV2.											
01-Nov-16 23:00:00	36	4.3	195	30	98	100	7.0	4.00	8.0	36000	1.016	9874.5
01-Nov-16 23:15:00	36	4.3	191	30	98	100	7.0	4.00	8.0	36000	1.011	9875.3
01-Nov-16 23:30:00	36	4.5	201	29	97	100	7.0	4.00	8.0	36000	1.006	9876.1
01-Nov-16 23:45:00	36	4.5	200	29	98	100	7.0	4.00	8.0	36000	1.011	9876.9
02-Nov-16 00:00:00	36	4.5	194	30	99	100	7.0	4.00	8.0	36000	1.017	9877.7
02-Nov-16 00:15:00	36	4.5	194	29	99	100	7.0	4.00	8.0	36000	1.016	9878.5
02-Nov-16 00:30:00	36	4.5	197	29	99	100	7.0	4.00	8.0	36000	1.010	9879.3
02-Nov-16 00:45:00	36	4.5	194	29	99	100	7.0	4.00	8.0	36000	1.017	9880.1
02-Nov-16 01:00:00	36	4.5	193	29	99	100	7.0	4.00	8.0	36000	1.005	9881.0
02-Nov-16 01:15:00	36	4.5	186	29	99	100	7.0	4.00	8.0	36000	1.027	9881.9
02-Nov-16 01:30:00	36	4.3	193	29	100	100	7.0	4.00	8.0	36000	1.013	9882.8
02-Nov-16 01:45:00	36	4.5	196	29	99	100	7.0	4.00	8.0	36000	1.019	9883.7
02-Nov-16 02:00:00	Gas SG 0.644.											
02-Nov-16 02:00:00	36	4.5	192	29	98	100	7.0	4.00	8.0	36000	1.011	9884.6
02-Nov-16 02:15:00	36	4.5	198	29	99	100	7.0	4.00	8.0	36000	1.014	9885.4
02-Nov-16 02:30:00	36	4.5	194	29	98	100	7.0	4.00	8.0	36000	1.016	9886.2
02-Nov-16 02:45:00	36	4.5	198	29	99	100	7.0	4.00	8.0	36000	1.011	9887.0
02-Nov-16 03:00:00	36	4.5	201	29	99	100	7.0	4.00	8.0	36000	1.015	9887.9
02-Nov-16 03:15:00	36	4.6	199	28	99	100	7.0	4.00	8.0	36000	1.012	9888.7
02-Nov-16 03:30:00	36	4.5	199	28	99	100	7.0	4.00	8.0	36000	1.013	9889.5
02-Nov-16 03:45:00	36	4.5	197	28	99	100	7.0	4.00	8.0	36000	1.012	9890.3
02-Nov-16 04:00:00	36	4.5	196	28	100	100	7.0	4.00	8.0	36000	1.016	9891.1
02-Nov-16 04:15:00	36	4.5	197	28	100	100	7.0	4.00	8.0	36000	1.018	9891.9
02-Nov-16 04:30:00	36	4.3	194	27	100	100	7.0	4.00	8.0	36000	1.017	9892.7
02-Nov-16 04:45:00	36	4.5	194	27	100	100	7.0	4.00	8.0	36000	1.014	9893.5
02-Nov-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.646.											
02-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.32mS@23degC,Water Density=1014.4kg/m3@25.1DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-224.4mV2.											
02-Nov-16 05:00:00	36	4.5	195	27	100	100	7.0	4.00	9.0	37000	1.012	9894.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
02-Nov-16 05:15:00	36	4.5	194	27	101	100	7.0	4.00	9.0	37000	1.012	9895.1
02-Nov-16 05:30:00	36	4.3	197	27	100	100	7.0	4.00	9.0	37000	1.013	9895.9
02-Nov-16 05:45:00	36	4.3	189	27	100	100	7.0	4.00	9.0	37000	1.015	9896.7
02-Nov-16 06:00:00	36	4.5	191	27	100	100	7.0	4.00	9.0	37000	1.009	9897.5
02-Nov-16 06:15:00	36	4.5	194	27	100	100	7.0	4.00	9.0	37000	1.012	9898.2
02-Nov-16 06:30:00	36	4.4	192	27	100	100	7.0	4.00	9.0	37000	1.013	9898.9
02-Nov-16 06:42:41	Checked barton scrubbers for carry over.											
02-Nov-16 06:45:00	36	4.3	197	27	102	100	7.0	4.00	9.0	37000	0.993	9899.6
02-Nov-16 07:00:00	36	4.3	196	28	100	100	7.0	4.00	9.0	37000	1.009	9900.3
02-Nov-16 07:15:00	36	4.1	198	28	101	100	7.0	4.00	9.0	37000	1.009	9901.2
02-Nov-16 07:30:00	36	4.1	196	29	100	100	7.0	4.00	9.0	37000	1.015	9902.1
02-Nov-16 07:45:00	36	4.1	199	30	101	100	7.0	4.00	9.0	37000	1.013	9903.0
02-Nov-16 08:00:00	Gas SG 0.642.											
02-Nov-16 08:00:00	36	4.1	197	30	101	100	7.0	4.00	9.0	37000	1.013	9904.0
02-Nov-16 08:01:50	Checked barton scrubbers for carry over.											
02-Nov-16 08:15:00	36	4.1	198	30	99	100	7.0	4.00	9.0	37000	1.009	9904.8
02-Nov-16 08:30:00	36	3.2	202	31	102	100	7.0	4.00	9.0	37000	1.017	9905.6
02-Nov-16 08:45:00	36	1.0	196	31	99	100	7.0	4.00	9.0	37000	1.019	9906.4
02-Nov-16 09:00:00	36	1.1	195	32	101	100	7.0	4.00	9.0	37000	1.018	9907.2
02-Nov-16 09:02:00	WHP dropping, well slugging.											
02-Nov-16 09:06:00	Raised 1.75" Orifice Plate.											
02-Nov-16 09:06:00	End of MP.											
02-Nov-16 09:15:00	36	1.5	221	32	99	100	7.0	4.00	9.0	37000		9908.1
02-Nov-16 09:30:00	36	1.0	210	33	108	100	7.0	4.00	9.0	37000		9909.0
02-Nov-16 09:42:00	Separator pressure had been creeping up slightly over past 12 hours, started to slowly adjust back down to previous setting.											
02-Nov-16 09:45:00	36	1.0	194	33	99	100	7.0	4.00	9.0	37000		9909.9
02-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=9911bbls, EC=61.07mS@29.7degC.											
02-Nov-16 10:00:00	36	1.0	202	34	101	100	7.0	4.00	9.0	37000		9910.9
02-Nov-16 10:15:00	36	1.1	199	34	101	100	7.0	4.00	9.0	37000		9911.4
02-Nov-16 10:30:00	36	1.2	197	35	99	100	7.0	4.00	9.0	37000		9912.0
02-Nov-16 10:45:00	36	1.1	200	35	99	100	7.0	4.00	9.0	37000		9912.6
02-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 3.5%, Gas SG 0.642											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
02-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=60.53mS@28.8degC,Water Density=1012.8kg/m3@29.5DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-181mV2, Salinity 38000ppm											
02-Nov-16 11:00:00	36	-0.0	198	35	99	100	6.3	3.50	8.0	38000		9913.1
02-Nov-16 11:05:00	Went to flush VX water port after slug, found it plugged.											
02-Nov-16 11:10:00	Used HP pump to clear VX water port.											
02-Nov-16 11:15:00	Flushed VX water port, collected approx. 50cc of sand from port.											
02-Nov-16 11:15:00	36	-0.6	196	36	99	100	6.3	3.50	8.0	38000		9914.0
02-Nov-16 11:30:00	36	-1.9	198	37	101	100	6.3	3.50	8.0	38000		9914.8
02-Nov-16 11:45:00	36	-1.7	195	37	99	100	6.3	3.50	8.0	38000		9915.6
02-Nov-16 12:00:00	36	-1.7	194	37	101	100	6.3	3.50	8.0	38000		9916.4
02-Nov-16 12:15:00	36	-1.8	192	37	99	100	6.3	3.50	8.0	38000		9917.2
02-Nov-16 12:30:00	36	-1.9	204	37	99	100	6.3	3.50	8.0	38000		9918.0
02-Nov-16 12:45:00	36	-1.9	194	37	99	100	6.3	3.50	8.0	38000		9918.8
02-Nov-16 13:00:00	36	-1.8	202	37	99	100	6.3	3.50	8.0	38000		9919.6
02-Nov-16 13:05:00	Separator pressure dropped 17psi to 73 psia whilst adjusting.											
02-Nov-16 13:06:00	Started slowly increasing Separator pressure up to 80psia.											
02-Nov-16 13:15:00	36	-1.9	196	38	84	100	6.3	3.50	8.0	38000		9920.4
02-Nov-16 13:30:00	36	-1.9	197	38	93	100	6.3	3.50	8.0	38000		9921.2
02-Nov-16 13:45:00	36	-1.9	199	38	93	100	6.3	3.50	8.0	38000		9922.0
02-Nov-16 14:00:00	Gas SG 0.642.											
02-Nov-16 14:00:00	36	-1.9	199	38	93	100	6.3	3.50	8.0	38000		9922.8
02-Nov-16 14:03:00	MP on 36/64" Fixed Choke.											
02-Nov-16 14:03:00	Lowered 1.75" Orifice Plate.											
02-Nov-16 14:15:00	36	-1.9	200	38	93	100	6.3	3.50	8.0	38000	1.016	9923.7
02-Nov-16 14:30:00	36	-1.9	200	38	93	100	6.3	3.50	8.0	38000	1.021	9924.6
02-Nov-16 14:45:00	36	-1.9	199	38	92	100	6.3	3.50	8.0	38000	1.022	9925.6
02-Nov-16 15:00:00	36	-1.8	204	38	93	100	6.3	3.50	8.0	38000	1.019	9926.5
02-Nov-16 15:15:00	36	-1.7	201	38	92	100	6.3	3.50	8.0	38000	1.018	9927.2
02-Nov-16 15:30:00	36	-1.7	198	38	93	100	6.3	3.50	8.0	38000	1.017	9927.9
02-Nov-16 15:45:00	36	-1.8	194	38	93	100	6.3	3.50	8.0	38000	1.029	9928.6
02-Nov-16 16:00:00	36	-1.7	202	37	92	100	6.3	3.50	8.0	38000	1.014	9929.3
02-Nov-16 16:15:00	36	-1.7	203	37	95	100	6.3	3.50	8.0	38000	1.020	9929.9
02-Nov-16 16:30:00	36	-1.7	196	37	93	100	6.3	3.50	8.0	38000	1.021	9930.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
02-Nov-16 16:45:00	36	-1.7	199	37	92	100	6.3	3.50	8.0	38000	1.022	9931.3
02-Nov-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.642.											
02-Nov-16 17:00:00	Water sample from VX: pH=6.2, Electrical Conductivity=62.68mS@30.3degC, Water Density=1012.6kg/m3@31.6DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-134.9mV2, Salinity=38000ppm.											
02-Nov-16 17:00:00	36	-1.7	197	36	93	100	6.2	4.00	8.0	38000	1.018	9932.0
02-Nov-16 17:10:00	Pumped out 58 bbls from tank to pond.											
02-Nov-16 17:15:00	36	-1.7	197	35	93	100	6.2	4.00	8.0	38000	1.024	9932.8
02-Nov-16 17:30:00	36	-1.7	196	35	93	100	6.2	4.00	8.0	38000	1.017	9933.6
02-Nov-16 17:45:00	36	-1.7	197	34	93	100	6.2	4.00	8.0	38000	1.018	9934.4
02-Nov-16 18:00:00	36	-1.5	200	34	93	100	6.2	4.00	8.0	38000	1.022	9935.2
02-Nov-16 18:15:00	36	-1.5	194	34	93	100	6.2	4.00	8.0	38000	1.020	9935.8
02-Nov-16 18:30:00	36	-0.4	198	34	93	100	6.2	4.00	8.0	38000	1.022	9936.4
02-Nov-16 18:45:00	36	1.4	196	33	92	100	6.2	4.00	8.0	38000	1.014	9937.0
02-Nov-16 19:00:00	36	1.4	196	33	93	100	6.2	4.00	8.0	38000	1.012	9937.5
02-Nov-16 19:15:00	36	1.5	198	33	93	100	6.2	4.00	8.0	38000	1.017	9938.3
02-Nov-16 19:30:00	36	1.6	197	32	92	100	6.2	4.00	8.0	38000	1.020	9939.1
02-Nov-16 19:45:00	36	1.4	195	32	92	100	6.2	4.00	8.0	38000	1.017	9939.9
02-Nov-16 20:00:00	Gas SG 0.644.											
02-Nov-16 20:00:00	36	1.4	196	32	93	100	6.2	4.00	8.0	38000	1.015	9940.8
02-Nov-16 20:15:00	36	1.4	193	32	92	100	6.2	4.00	8.0	38000	1.012	9941.4
02-Nov-16 20:30:00	36	1.8	196	32	93	100	6.2	4.00	8.0	38000	1.022	9942.1
02-Nov-16 20:45:00	36	4.3	191	32	92	100	6.2	4.00	8.0	38000	1.020	9942.8
02-Nov-16 21:00:00	36	4.3	194	32	91	100	6.2	4.00	8.0	38000	1.014	9943.5
02-Nov-16 21:15:00	36	4.2	193	32	92	100	6.2	4.00	8.0	38000	1.015	9944.2
02-Nov-16 21:30:00	36	4.3	194	31	93	100	6.2	4.00	8.0	38000	1.016	9944.9
02-Nov-16 21:45:00	36	4.3	192	31	92	100	6.2	4.00	8.0	38000	1.017	9945.6
02-Nov-16 22:00:00	36	4.3	195	31	93	100	6.2	4.00	8.0	38000	1.015	9946.3
02-Nov-16 22:15:00	36	4.5	196	31	93	100	6.2	4.00	8.0	38000	1.015	9947.1
02-Nov-16 22:30:00	36	4.5	202	31	93	100	6.2	4.00	8.0	38000	1.014	9947.9
02-Nov-16 22:45:00	36	4.5	194	31	93	100	6.2	4.00	8.0	38000	1.021	9948.7
02-Nov-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.646.											
02-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.91mS@23.73degC, Water Density=1014.4kg/m3@25.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-125.9mV2, Salinity=37000ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
02-Nov-16 23:00:00	36	4.3	196	31	93	100	7.0	4.00	8.0	37000	1.017	9949.5
02-Nov-16 23:15:00	36	4.4	195	31	92	100	7.0	4.00	8.0	37000	1.015	9950.4
02-Nov-16 23:30:00	36	4.3	197	31	93	100	7.0	4.00	8.0	37000	1.016	9951.3
02-Nov-16 23:45:00	36	4.5	197	31	92	100	7.0	4.00	8.0	37000	1.015	9952.3
03-Nov-16 00:00:00	36	4.5	193	31	92	100	7.0	4.00	8.0	37000	1.018	9953.2
03-Nov-16 00:15:00	36	4.4	192	31	93	100	7.0	4.00	8.0	37000	1.013	9954.1
03-Nov-16 00:30:00	36	4.5	197	31	93	100	7.0	4.00	8.0	37000	1.017	9955.0
03-Nov-16 00:45:00	36	4.5	193	31	93	100	7.0	4.00	8.0	37000	1.015	9955.9
03-Nov-16 01:00:00	36	4.3	197	30	93	100	7.0	4.00	8.0	37000	1.019	9956.9
03-Nov-16 01:15:00	36	4.3	192	30	92	100	7.0	4.00	8.0	37000	1.014	9957.5
03-Nov-16 01:30:00	36	4.3	194	30	92	100	7.0	4.00	8.0	37000	1.016	9958.2
03-Nov-16 01:45:00	36	4.4	189	31	92	100	7.0	4.00	8.0	37000	1.010	9958.9
03-Nov-16 01:46:28	Well slugging.											
03-Nov-16 02:00:00	Gas SG 0.646.											
03-Nov-16 02:00:00	36	4.3	199	31	94	100	7.0	4.00	8.0	37000	1.022	9959.6
03-Nov-16 02:15:00	36	4.3	191	31	92	100	7.0	4.00	8.0	37000	1.015	9960.5
03-Nov-16 02:30:00	36	4.4	187	30	89	100	7.0	4.00	8.0	37000	1.013	9961.5
03-Nov-16 02:45:00	36	4.5	210	30	95	100	7.0	4.00	8.0	37000	1.007	9962.4
03-Nov-16 03:00:00	36	4.5	189	30	92	100	7.0	4.00	8.0	37000	1.036	9963.3
03-Nov-16 03:15:00	36	4.4	200	30	93	100	7.0	4.00	8.0	37000	1.019	9964.0
03-Nov-16 03:30:00	36	4.5	191	30	92	100	7.0	4.00	8.0	37000	1.018	9964.7
03-Nov-16 03:45:00	36	4.5	193	30	93	100	7.0	4.00	8.0	37000	1.025	9965.4
03-Nov-16 04:00:00	36	4.5	196	30	92	100	7.0	4.00	8.0	37000	1.014	9966.0
03-Nov-16 04:15:00	36	4.5	181	30	89	100	7.0	4.00	8.0	37000	1.014	9966.9
03-Nov-16 04:30:00	36	4.5	219	30	99	100	7.0	4.00	8.0	37000	0.980	9967.7
03-Nov-16 04:45:00	36	4.5	180	30	96	100	7.0	4.00	8.0	37000	1.071	9968.5
03-Nov-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.646.											
03-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=50.0mS@21.1degC, Water Density=1013.9kg/m3@23DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-110.4mV2, Salinity=36000ppm.											
03-Nov-16 05:00:00	36	4.5	197	30	96	100	7.0	4.00	8.0	36000	1.001	9969.3
03-Nov-16 05:15:00	36	4.5	190	29	96	100	7.0	4.00	8.0	36000	1.025	9970.1
03-Nov-16 05:30:00	36	4.3	195	29	96	100	7.0	4.00	8.0	36000	1.004	9970.9
03-Nov-16 05:45:00	36	4.5	198	29	98	100	7.0	4.00	8.0	36000	1.027	9971.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
03-Nov-16 06:00:00	36	4.3	204	29	93	100	7.0	4.00	8.0	36000	0.998	9972.5
03-Nov-16 06:15:00	36	4.3	185	29	96	100	7.0	4.00	8.0	36000	1.041	9973.3
03-Nov-16 06:30:00	36	4.3	194	29	96	100	7.0	4.00	8.0	36000	1.012	9974.1
03-Nov-16 06:45:00	36	4.1	191	29	96	100	7.0	4.00	8.0	36000	1.021	9974.9
03-Nov-16 07:00:00	36	4.1	197	30	96	100	7.0	4.00	8.0	36000	1.013	9975.7
03-Nov-16 07:15:00	36	4.1	193	31	96	100	7.0	4.00	8.0	36000	1.016	9976.5
03-Nov-16 07:30:00	36	4.1	199	31	96	100	7.0	4.00	8.0	36000	1.008	9977.3
03-Nov-16 07:45:00	36	1.2	192	31	96	100	7.0	4.00	8.0	36000	1.017	9978.1
03-Nov-16 08:00:00	Gas SG 0.642.											
03-Nov-16 08:00:00	36	1.1	195	32	95	100	7.0	4.00	8.0	36000	1.017	9978.9
03-Nov-16 08:01:43	Checked barton scrubbers for carry over.											
03-Nov-16 08:15:00	36	1.0	195	33	95	100	7.0	4.00	8.0	36000	1.021	9979.7
03-Nov-16 08:30:00	36	1.0	194	33	95	100	7.0	4.00	8.0	36000	1.020	9980.5
03-Nov-16 08:45:00	36	1.1	201	34	95	100	7.0	4.00	8.0	36000	1.022	9981.3
03-Nov-16 09:00:00	36	1.2	194	34	96	100	7.0	4.00	8.0	36000	1.023	9982.1
03-Nov-16 09:15:00	36	1.1	196	35	96	100	7.0	4.00	8.0	36000	1.023	9982.8
03-Nov-16 09:30:00	36	1.2	196	35	95	100	7.0	4.00	8.0	36000	1.024	9983.5
03-Nov-16 09:45:00	36	1.0	195	36	96	100	7.0	4.00	8.0	36000	1.023	9984.2
03-Nov-16 10:00:00	36	-1.9	195	36	96	100	7.0	4.00	8.0	36000	1.027	9984.9
03-Nov-16 10:02:43	Flushed barton scrubbers.											
03-Nov-16 10:15:00	36	-1.8	198	37	98	100	7.0	4.00	8.0	36000	1.030	9985.6
03-Nov-16 10:30:00	36	-1.7	198	37	96	100	7.0	4.00	8.0	36000	1.017	9986.3
03-Nov-16 10:45:00	36	-1.7	196	37	98	100	7.0	4.00	8.0	36000	1.023	9987.0
03-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
03-Nov-16 11:00:00	Water sample from VX: pH=6, Electrical Conductivity=62.35mS@29.8degC, Water Density=1012.8kg/m3@31DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-142.2mV2, Salinity=38000ppm.											
03-Nov-16 11:00:00	36	-1.7	195	38	96	100	6.0	4.00	7.0	38000	1.014	9987.7
03-Nov-16 11:01:00	Checked barton scrubbers for carry over.											
03-Nov-16 11:15:00	Flushed VX liquid port, found trace of sand ~3cc.											
03-Nov-16 11:15:00	36	-1.7	203	38	96	100	6.0	4.00	7.0	38000	1.008	9988.5
03-Nov-16 11:30:00	36	-1.7	197	38	98	100	6.0	4.00	7.0	38000	1.023	9989.3
03-Nov-16 11:45:00	36	-1.7	202	39	98	100	6.0	4.00	7.0	38000	1.022	9990.1
03-Nov-16 12:00:00	36	-1.7	204	39	98	100	6.0	4.00	7.0	38000	1.021	9990.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
03-Nov-16 12:15:00	36	-1.7	204	39	98	100	6.0	4.00	7.0	38000	1.022	9991.7
03-Nov-16 12:30:00	36	-1.7	204	40	98	100	6.0	4.00	7.0	38000	1.021	9992.5
03-Nov-16 12:45:00	36	-1.7	196	39	99	100	6.0	4.00	7.0	38000	1.020	9993.3
03-Nov-16 12:48:00	WHP dropping, well slugging.											
03-Nov-16 12:50:00	Lifted 1.75" Orifice Plate.											
03-Nov-16 12:50:00	End of MP.											
03-Nov-16 13:00:00	36	-1.7	220	39	86	100	6.0	4.00	7.0	38000		9994.1
03-Nov-16 13:15:00	36	-1.7	238	39	113	100	6.0	4.00	7.0	38000		9994.9
03-Nov-16 13:30:00	36	-1.7	187	39	101	100	6.0	4.00	7.0	38000		9995.7
03-Nov-16 13:45:00	36	-1.7	203	40	101	100	6.0	4.00	7.0	38000		9996.5
03-Nov-16 14:00:00	Gas SG=0.642											
03-Nov-16 14:00:00	36	-1.7	192	40	98	100	6.0	4.00	7.0	38000		9997.3
03-Nov-16 14:15:00	36	-1.7	203	40	98	100	6.0	4.00	7.0	38000		9997.9
03-Nov-16 14:30:00	36	-1.9	199	39	98	100	6.0	4.00	7.0	38000		9998.5
03-Nov-16 14:45:00	36	-2.2	199	39	98	100	6.0	4.00	7.0	38000		9999.1
03-Nov-16 15:00:00	Pumped 66.8 bbls from tank to pond.											
03-Nov-16 15:00:00	36	-1.8	201	40	98	100	6.0	4.00	7.0	38000		9999.6
03-Nov-16 15:15:00	36	-4.5	195	39	96	100	6.0	4.00	7.0	38000		10000.4
03-Nov-16 15:30:00	36	-4.7	198	39	96	100	6.0	4.00	7.0	38000		10001.2
03-Nov-16 15:45:00	36	-4.7	198	39	97	100	6.0	4.00	7.0	38000		10002.0
03-Nov-16 16:00:00	36	-4.7	203	39	98	100	6.0	4.00	7.0	38000		10002.9
03-Nov-16 16:02:00	MP on 36/64" Fixed Choke.											
03-Nov-16 16:02:00	Lowered 1.75" Orifice Plate.											
03-Nov-16 16:15:00	36	-4.7	199	38	99	100	6.0	4.00	7.0	38000	1.013	10003.5
03-Nov-16 16:30:00	36	-3.1	197	38	99	100	6.0	4.00	7.0	38000	1.016	10004.2
03-Nov-16 16:45:00	36	-4.3	202	38	99	100	6.0	4.00	7.0	38000	1.018	10004.9
03-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
03-Nov-16 17:00:00	36	-3.0	197	37	98	100	6.0	4.00	7.0	38000	1.010	10005.6
03-Nov-16 17:01:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.391mS@30.3degC, Water Density=1013.1kg/m3@32.1DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-137.8mV2, Salinity=38000ppm.											
03-Nov-16 17:15:00	36	-1.5	199	36	99	100	6.0	4.00	7.0	38000	1.010	10006.4
03-Nov-16 17:30:00	36	-1.5	193	36	98	100	6.0	4.00	7.0	38000	1.013	10007.2
03-Nov-16 17:45:00	36	-1.5	197	35	98	100	6.0	4.00	7.0	38000	1.013	10008.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
03-Nov-16 18:00:00	36	-1.5	195	35	98	100	6.3	4.00	8.0	38000	1.014	10008.8
03-Nov-16 18:15:00	36	-1.5	200	35	98	100	6.3	4.00	8.0	38000	1.010	10009.6
03-Nov-16 18:30:00	36	-1.5	189	34	98	100	6.3	4.00	8.0	38000	1.015	10010.4
03-Nov-16 18:45:00	36	-1.3	192	33	98	100	6.3	4.00	8.0	38000	1.011	10011.2
03-Nov-16 19:00:00	36	1.6	196	33	96	100	6.3	4.00	8.0	38000	0.996	10012.1
03-Nov-16 19:15:00	36	1.4	205	33	100	100	6.3	4.00	8.0	38000	1.022	10012.9
03-Nov-16 19:30:00	36	1.4	199	32	98	100	6.3	4.00	8.0	38000	1.023	10013.7
03-Nov-16 19:45:00	36	1.4	195	32	99	100	6.3	4.00	8.0	38000	1.022	10014.5
03-Nov-16 20:00:00	Gas SG=0.642											
03-Nov-16 20:00:00	36	1.4	199	32	98	100	6.3	4.00	8.0	38000	1.016	10015.3
03-Nov-16 20:15:00	36	2.6	195	32	96	100	6.3	4.00	8.0	38000	1.019	10016.1
03-Nov-16 20:30:00	36	1.9	197	32	96	100	6.3	4.00	8.0	38000	1.014	10016.9
03-Nov-16 20:45:00	36	4.0	193	32	96	100	6.3	4.00	8.0	38000	1.015	10017.7
03-Nov-16 21:00:00	36	4.5	194	31	99	100	6.3	4.00	8.0	38000	1.010	10018.5
03-Nov-16 21:15:00	36	4.5	198	31	98	100	6.3	4.00	8.0	38000	1.016	10019.2
03-Nov-16 21:30:00	36	4.3	195	31	98	100	6.3	4.00	8.0	38000	1.015	10019.9
03-Nov-16 21:45:00	36	4.5	194	31	97	100	6.3	4.00	8.0	38000	1.009	10020.6
03-Nov-16 22:00:00	36	4.4	193	31	97	100	6.3	4.00	8.0	38000	1.012	10021.3
03-Nov-16 22:15:00	36	4.5	194	31	98	100	6.3	4.00	8.0	38000	1.014	10022.1
03-Nov-16 22:30:00	36	4.5	191	31	99	100	6.3	4.00	8.0	38000	1.019	10022.9
03-Nov-16 22:45:00	36	4.5	195	30	97	100	6.3	4.00	8.0	38000	1.008	10023.7
03-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
03-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.46mS@22.8degC, Water Density=1015kg/m3@24.7DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-109.4mV2, Salinity=38000ppm.											
03-Nov-16 23:00:00	36	4.3	194	31	97	100	7.0	4.00	8.0	38000	1.016	10024.5
03-Nov-16 23:15:00	36	4.3	192	31	97	100	7.0	4.00	8.0	38000	1.016	10025.2
03-Nov-16 23:30:00	36	4.5	195	31	97	100	7.0	4.00	8.0	38000	1.008	10025.8
03-Nov-16 23:45:00	36	4.5	193	31	96	100	7.0	4.00	8.0	38000	1.010	10026.5
04-Nov-16 00:00:00	36	4.5	194	30	99	100	7.0	4.00	8.0	38000	1.008	10027.2
04-Nov-16 00:15:00	36	4.5	193	30	97	100	7.0	4.00	8.0	38000	1.011	10027.9
04-Nov-16 00:30:00	36	4.5	195	30	99	100	7.0	4.00	8.0	38000	1.016	10028.6
04-Nov-16 00:45:00	36	4.5	191	30	97	100	7.0	4.00	8.0	38000	1.021	10029.3
04-Nov-16 01:00:00	36	4.3	189	30	97	100	7.0	4.00	8.0	38000	1.010	10030.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
04-Nov-16 01:15:00	36	4.3	192	30	98	100	7.0	4.00	8.0	38000	1.012	10030.8
04-Nov-16 01:30:00	36	4.4	196	30	97	100	7.0	4.00	8.0	38000	1.008	10031.6
04-Nov-16 01:45:00	36	4.5	196	30	97	100	7.0	4.00	8.0	38000	1.010	10032.4
04-Nov-16 02:00:00	Gas SG=0.644											
04-Nov-16 02:00:00	36	4.4	186	30	96	100	7.0	4.00	8.0	38000	1.017	10033.2
04-Nov-16 02:15:00	36	4.5	206	30	98	100	7.0	4.00	8.0	38000	1.007	10034.0
04-Nov-16 02:30:00	36	4.5	190	30	97	100	7.0	4.00	8.0	38000	1.025	10034.8
04-Nov-16 02:45:00	36	4.5	198	30	99	100	7.0	4.00	8.0	38000	1.015	10035.6
04-Nov-16 03:00:00	36	4.5	194	30	97	100	7.0	4.00	8.0	38000	1.017	10036.4
04-Nov-16 03:15:00	36	4.5	199	30	98	100	7.0	4.00	8.0	38000	1.016	10037.2
04-Nov-16 03:30:00	36	4.5	192	30	97	100	7.0	4.00	8.0	38000	1.019	10038.0
04-Nov-16 03:45:00	36	4.5	197	30	97	100	7.0	4.00	8.0	38000	1.008	10038.8
04-Nov-16 04:00:00	36	4.6	194	30	99	100	7.0	4.00	8.0	38000	1.016	10039.7
04-Nov-16 04:15:00	36	4.5	195	30	97	100	7.0	4.00	8.0	38000	1.019	10040.3
04-Nov-16 04:30:00	36	4.5	197	30	97	100	7.0	4.00	8.0	38000	1.011	10041.0
04-Nov-16 04:45:00	36	4.5	190	30	99	100	7.0	4.00	8.0	38000	1.018	10041.7
04-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
04-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.81mS@22.6degC, Water Density=1015.2kg/m3@24.6DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-115.8mV2, Salinity=38000ppm.											
04-Nov-16 05:00:00	36	4.7	192	30	98	100	7.0	4.00	8.0	38000	1.011	10042.4
04-Nov-16 05:15:00	36	4.5	190	30	98	100	7.0	4.00	8.0	38000	1.022	10043.2
04-Nov-16 05:30:00	36	4.6	189	30	97	100	7.0	4.00	8.0	38000	1.010	10044.0
04-Nov-16 05:45:00	36	4.5	191	30	99	100	7.0	4.00	8.0	38000	1.014	10044.8
04-Nov-16 06:00:00	36	4.5	186	30	99	100	7.0	4.00	8.0	38000	1.020	10045.6
04-Nov-16 06:15:00	36	4.5	197	30	100	100	7.0	4.00	8.0	38000	1.019	10046.4
04-Nov-16 06:30:00	36	4.5	196	30	97	100	7.0	4.00	8.0	38000	1.014	10047.2
04-Nov-16 06:45:00	36	4.4	195	31	98	100	7.0	4.00	8.0	38000	1.016	10048.0
04-Nov-16 07:00:00	36	4.3	194	32	98	100	7.0	4.00	8.0	38000	1.012	10048.9
04-Nov-16 07:15:00	36	1.3	192	32	98	100	7.0	4.00	8.0	38000	1.019	10049.5
04-Nov-16 07:30:00	36	1.2	197	33	98	100	7.0	4.00	8.0	38000	1.011	10050.2
04-Nov-16 07:45:00	36	1.2	201	34	98	100	7.0	4.00	8.0	38000	1.017	10050.9
04-Nov-16 08:00:00	Gas SG=0.640											
04-Nov-16 08:00:00	36	1.2	199	34	98	100	7.0	4.00	8.0	38000	1.016	10051.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
04-Nov-16 08:15:00	36	1.2	197	35	96	100	7.0	4.00	8.0	38000	1.020	10052.4
04-Nov-16 08:30:00	36	0.7	196	35	97	100	7.0	4.00	8.0	38000	1.016	10053.2
04-Nov-16 08:45:00	36	-1.7	195	36	98	100	7.0	4.00	8.0	38000	1.023	10054.0
04-Nov-16 09:00:00	36	-1.7	197	36	98	100	7.0	4.00	8.0	38000	1.017	10054.8
04-Nov-16 09:15:00	36	-1.7	204	37	99	100	7.0	4.00	8.0	38000	1.016	9119.9
04-Nov-16 09:30:00	36	-1.7	202	37	99	100	7.0	4.00	8.0	38000	1.016	8184.9
04-Nov-16 09:45:00	36	-1.7	198	37	99	100	7.0	4.00	8.0	38000	1.021	7250.0
04-Nov-16 10:00:00	Pumped 57.5 bbls from tank to pond.											
04-Nov-16 10:00:00	36	-1.7	203	38	99	100	7.0	4.00	8.0	38000	1.013	6315.0
04-Nov-16 10:15:00	36	-1.7	199	38	99	100	7.0	4.00	8.0	38000	1.025	7251.4
04-Nov-16 10:30:00	36	-1.7	195	38	100	100	7.0	4.00	8.0	38000	1.018	8187.7
04-Nov-16 10:45:00	36	-1.7	200	38	101	100	7.0	4.00	8.0	38000	1.024	9124.0
04-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
04-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.93mS@30.2degC, Water Density=1013kg/m3@31.5DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-134mV2, Salinity=38000ppm.											
04-Nov-16 11:00:00	36	-1.8	201	38	101	100	6.3	4.00	7.0	38000	1.010	10060.4
04-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand ~1cc and scales.											
04-Nov-16 11:15:00	36	-1.7	199	38	101	100	6.3	4.00	7.0	38000	1.015	10061.0
04-Nov-16 11:30:00	36	-1.7	198	39	101	100	6.3	4.00	7.0	38000	1.015	10061.7
04-Nov-16 11:45:00	36	-1.7	195	39	101	100	6.3	4.00	7.0	38000	1.014	10062.4
04-Nov-16 12:00:00	36	-1.9	204	39	101	100	6.3	4.00	7.0	38000	1.012	10063.1
04-Nov-16 12:15:00	36	-1.7	199	39	101	100	6.3	4.00	7.0	38000	1.023	10063.8
04-Nov-16 12:30:00	36	-1.7	197	39	101	100	6.3	4.00	7.0	38000	1.015	10064.5
04-Nov-16 12:45:00	36	-2.2	198	40	101	100	6.3	4.00	7.0	38000	1.015	10065.2
04-Nov-16 13:00:00	36	-2.5	196	40	102	100	6.3	4.00	7.0	38000	1.008	10065.9
04-Nov-16 13:15:00	36	-2.0	198	40	102	100	6.3	4.00	7.0	38000	1.012	10066.7
04-Nov-16 13:30:00	36	-1.7	193	39	102	100	6.3	4.00	7.0	38000	1.011	10067.5
04-Nov-16 13:45:00	36	-2.4	197	40	104	100	6.3	4.00	7.0	38000	1.027	10068.3
04-Nov-16 14:00:00	Gas SG=0.640											
04-Nov-16 14:00:00	36	-2.1	198	40	104	100	6.3	4.00	7.0	38000	1.011	10069.1
04-Nov-16 14:15:00	36	-2.1	203	40	104	100	6.3	4.00	7.0	38000	1.018	10069.8
04-Nov-16 14:30:00	36	-2.8	200	40	104	100	6.3	4.00	7.0	38000	1.015	10070.5
04-Nov-16 14:45:00	36	-3.1	199	40	104	100	6.3	4.00	7.0	38000	1.017	10071.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
04-Nov-16 15:00:00	36	-1.7	199	40	103	100	6.3	4.00	7.0	38000	1.013	10071.9
04-Nov-16 15:15:00	36	-4.7	188	40	99	100	6.3	4.00	7.0	38000	0.996	10072.7
04-Nov-16 15:30:00	36	-4.7	214	39	107	100	6.3	4.00	7.0	38000	1.014	10073.5
04-Nov-16 15:45:00	36	-1.8	192	39	101	100	6.3	4.00	7.0	38000	1.039	10074.3
04-Nov-16 16:00:00	36	-4.7	205	39	104	100	6.3	4.00	7.0	38000	1.004	10075.1
04-Nov-16 16:15:00	36	-4.5	206	39	105	100	6.3	4.00	7.0	38000	1.020	10075.6
04-Nov-16 16:30:00	36	-4.5	200	39	104	100	6.3	4.00	7.0	38000	1.022	10076.2
04-Nov-16 16:45:00	36	-4.6	196	38	104	100	6.3	4.00	7.0	38000	1.024	10076.8
04-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
04-Nov-16 17:00:00	Water sample from VX: pH=6.2, Electrical Conductivity=63.63mS@31.1degC, Water Density=1012.7kg/m3@33.3DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-125.6mV2, Salinity=38000ppm.											
04-Nov-16 17:00:00	36	-4.7	199	38	102	100	6.2	4.00	7.0	38000	1.013	10077.4
04-Nov-16 17:15:00	36	-4.4	193	37	102	100	6.2	4.00	7.0	38000	1.020	10078.3
04-Nov-16 17:30:00	36	-1.7	196	36	102	100	6.2	4.00	7.0	38000	1.015	10079.2
04-Nov-16 17:45:00	36	-2.3	201	36	101	100	6.2	4.00	7.0	38000	1.013	10080.1
04-Nov-16 18:00:00	36	-2.2	200	35	102	100	6.2	4.00	7.0	38000	1.013	10081.0
04-Nov-16 18:15:00	36	-1.4	200	35	102	100	6.2	4.00	7.0	38000	1.015	10082.0
04-Nov-16 18:30:00	36	-1.4	200	34	102	100	6.2	4.00	7.0	38000	1.017	10082.9
04-Nov-16 18:45:00	36	-1.4	195	34	102	100	6.2	4.00	7.0	38000	1.010	10083.8
04-Nov-16 19:00:00	36	1.6	198	33	101	100	6.2	4.00	7.0	38000	1.011	10084.7
04-Nov-16 19:15:00	36	1.6	194	33	101	100	6.2	4.00	7.0	38000	1.012	10085.5
04-Nov-16 19:30:00	36	1.6	190	32	101	100	6.2	4.00	7.0	38000	1.018	10086.3
04-Nov-16 19:45:00	36	1.6	192	32	101	100	6.2	4.00	7.0	38000	1.011	10087.1
04-Nov-16 20:00:00	Gas SG=0.644											
04-Nov-16 20:00:00	36	1.6	195	32	102	100	6.2	4.00	7.0	38000	1.016	10088.0
04-Nov-16 20:15:00	36	4.2	190	32	101	100	6.2	4.00	7.0	38000	1.012	10088.6
04-Nov-16 20:30:00	36	3.5	195	32	101	100	6.2	4.00	7.0	38000	1.012	10089.3
04-Nov-16 20:45:00	36	4.5	194	32	101	100	6.2	4.00	7.0	38000	1.010	10090.0
04-Nov-16 21:00:00	36	4.5	191	32	101	100	6.2	4.00	7.0	38000	1.014	10090.7
04-Nov-16 21:15:00	36	4.5	197	31	101	100	6.2	4.00	7.0	38000	1.010	10091.4
04-Nov-16 21:30:00	36	4.5	195	31	100	100	6.2	4.00	7.0	38000	1.012	10092.1
04-Nov-16 21:45:00	36	4.5	193	31	101	100	6.2	4.00	7.0	38000	1.013	10092.8
04-Nov-16 22:00:00	36	4.5	194	31	100	100	6.2	4.00	7.0	38000	1.003	10093.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
04-Nov-16 22:15:00	36	4.5	187	31	101	100	6.2	4.00	7.0	38000	1.022	10094.2
04-Nov-16 22:30:00	36	4.5	190	31	101	100	6.2	4.00	7.0	38000	1.010	10094.9
04-Nov-16 22:45:00	36	4.5	192	31	101	100	6.2	4.00	7.0	38000	1.021	10095.5
04-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
04-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=54.38mS@22.4degC,Water Density=1015.1kg/m3@24.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-106.5mV2, Salinity=38000ppm.											
04-Nov-16 23:00:00	36	4.4	190	31	99	100	6.4	4.00	8.0	38000	1.012	10096.2
04-Nov-16 23:15:00	36	4.5	191	31	99	100	6.4	4.00	8.0	38000	1.013	10096.9
04-Nov-16 23:30:00	36	4.5	195	31	99	100	6.4	4.00	8.0	38000	1.012	10097.6
04-Nov-16 23:45:00	36	4.3	195	31	100	100	6.4	4.00	8.0	38000	1.019	10098.3
05-Nov-16 00:00:00	36	4.3	195	31	101	100	6.4	4.00	8.0	38000	1.018	10099.0
05-Nov-16 00:15:00	36	4.4	186	31	96	100	6.4	4.00	8.0	38000	1.006	10099.7
05-Nov-16 00:30:00	36	4.5	209	31	102	100	6.4	4.00	8.0	38000	0.996	10100.4
05-Nov-16 00:45:00	36	4.5	179	30	99	100	6.4	4.00	8.0	38000	1.043	10101.1
05-Nov-16 01:00:00	36	4.5	198	30	100	100	6.4	4.00	8.0	38000	1.007	10101.8
05-Nov-16 01:15:00	36	4.3	193	30	101	100	6.4	4.00	8.0	38000	1.021	10102.6
05-Nov-16 01:30:00	36	4.5	185	30	98	100	6.4	4.00	8.0	38000	1.017	10103.4
05-Nov-16 01:45:00	36	4.5	204	30	100	100	6.4	4.00	8.0	38000	1.010	10104.2
05-Nov-16 02:00:00	Gas SG=0.642											
05-Nov-16 02:00:00	36	4.5	193	30	99	100	6.4	4.00	8.0	38000	1.030	10105.0
05-Nov-16 02:15:00	36	4.5	193	30	100	100	6.4	4.00	8.0	38000	1.014	10105.8
05-Nov-16 02:30:00	36	4.5	194	30	99	100	6.4	4.00	8.0	38000	1.017	10106.6
05-Nov-16 02:45:00	36	4.5	191	30	99	100	6.4	4.00	8.0	38000	1.012	10107.4
05-Nov-16 03:00:00	36	4.5	195	30	100	100	6.4	4.00	8.0	38000	1.012	10108.2
05-Nov-16 03:15:00	36	4.5	192	30	100	100	6.4	4.00	8.0	38000	1.014	10108.9
05-Nov-16 03:30:00	36	4.5	190	30	100	100	6.4	4.00	8.0	38000	1.015	10109.6
05-Nov-16 03:45:00	36	4.5	192	30	101	100	6.4	4.00	8.0	38000	1.016	10110.3
05-Nov-16 04:00:00	36	4.5	198	30	100	100	6.4	4.00	8.0	38000	1.016	10111.0
05-Nov-16 04:15:00	36	4.3	193	30	100	100	6.4	4.00	8.0	38000	1.014	10111.6
05-Nov-16 04:30:00	36	4.4	195	30	100	100	6.4	4.00	8.0	38000	1.015	10112.3
05-Nov-16 04:45:00	36	4.5	190	30	100	100	6.4	4.00	8.0	38000	1.015	10113.0
05-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
05-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.77mS@22.7degC,Water Density=1014.8kg/m3@24.9DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-104.9mV2, Salinity=38000ppm.											
05-Nov-16 05:00:00	36	4.5	192	30	100	100	6.3	4.00	8.0	38000	1.009	10113.7
05-Nov-16 05:15:00	36	4.5	195	30	102	100	6.3	4.00	8.0	38000	1.018	10114.4
05-Nov-16 05:30:00	36	4.5	195	30	100	100	6.3	4.00	8.0	38000	1.012	10115.1
05-Nov-16 05:45:00	36	4.5	186	30	100	100	6.3	4.00	8.0	38000	1.028	10115.8
05-Nov-16 06:00:00	36	4.5	193	30	100	100	6.3	4.00	8.0	38000	1.013	10116.5
05-Nov-16 06:15:00	36	4.5	187	30	100	100	6.3	4.00	8.0	38000	1.023	10117.3
05-Nov-16 06:30:00	36	4.4	194	30	102	100	6.3	4.00	8.0	38000	1.014	10118.1
05-Nov-16 06:45:00	36	4.3	193	31	101	100	6.3	4.00	8.0	38000	1.018	10118.9
05-Nov-16 07:00:00	Pumped 61.2 bbls from tank to pond.											
05-Nov-16 07:00:00	36	4.3	193	31	101	100	6.3	4.00	8.0	38000	1.017	10119.7
05-Nov-16 07:15:00	36	1.3	196	32	101	100	6.3	4.00	8.0	38000	1.014	10120.4
05-Nov-16 07:30:00	36	1.2	193	32	101	100	6.3	4.00	8.0	38000	1.021	10121.1
05-Nov-16 07:45:00	36	1.2	194	33	101	100	6.3	4.00	8.0	38000	1.015	10121.8
05-Nov-16 08:00:00	Gas SG=0.640											
05-Nov-16 08:00:00	36	1.2	195	33	99	100	6.3	4.00	8.0	38000	1.014	10122.5
05-Nov-16 08:15:00	36	1.2	199	34	101	100	6.3	4.00	8.0	38000	1.021	10123.2
05-Nov-16 08:30:00	36	1.2	196	35	101	100	6.3	4.00	8.0	38000	1.021	10123.9
05-Nov-16 08:45:00	36	-1.4	193	35	101	100	6.3	4.00	8.0	38000	1.018	10124.6
05-Nov-16 09:00:00	36	-1.7	197	36	99	100	6.3	4.00	8.0	38000	1.020	10125.3
05-Nov-16 09:15:00	36	-1.7	196	36	101	100	6.3	4.00	8.0	38000	1.016	10126.2
05-Nov-16 09:30:00	36	-1.7	202	37	102	100	6.3	4.00	8.0	38000	1.018	10127.1
05-Nov-16 09:45:00	36	-1.7	197	37	101	100	6.3	4.00	8.0	38000	1.023	10128.1
05-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=10129bbls, EC=66.15mS@33.4degC, pH=6.1.											
05-Nov-16 10:00:00	36	-1.7	199	38	102	100	6.3	4.00	8.0	38000	1.016	10129.0
05-Nov-16 10:15:00	36	-1.7	196	38	102	100	6.3	4.00	8.0	38000	1.016	10129.4
05-Nov-16 10:30:00	36	-1.7	198	38	102	100	6.3	4.00	8.0	38000	1.019	10129.9
05-Nov-16 10:45:00	36	-1.7	196	38	102	100	6.3	4.00	8.0	38000	1.012	10130.4
05-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=65.02mS@30.7degC,Water Density=1013.2kg/m3@32DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-145mV2, Salinity=39000ppm.											
05-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
05-Nov-16 11:00:00	36	-1.7	201	38	102	100	6.4	4.00	7.0	39000	1.015	10130.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
05-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
05-Nov-16 11:15:00	36	-1.7	201	38	102	100	6.4	4.00	7.0	39000	1.027	10131.7
05-Nov-16 11:30:00	36	-1.7	196	39	102	100	6.4	4.00	7.0	39000	1.017	10132.7
05-Nov-16 11:45:00	36	-1.7	199	39	104	100	6.4	4.00	7.0	39000	1.017	10133.6
05-Nov-16 12:00:00	36	-1.7	193	39	103	100	6.4	4.00	7.0	39000	1.016	10134.5
05-Nov-16 12:15:00	36	-1.7	203	39	107	100	6.4	4.00	7.0	39000	1.025	10135.3
05-Nov-16 12:30:00	36	-1.9	198	40	104	100	6.4	4.00	7.0	39000	1.018	10136.1
05-Nov-16 12:45:00	36	-1.7	202	40	105	100	6.4	4.00	7.0	39000	1.017	10136.9
05-Nov-16 13:00:00	36	-1.7	198	40	104	100	6.4	4.00	7.0	39000	1.019	10137.7
05-Nov-16 13:15:00	36	-3.5	200	40	105	100	6.4	4.00	7.0	39000	1.018	10138.5
05-Nov-16 13:30:00	36	-1.7	202	40	105	100	6.4	4.00	7.0	39000	1.020	10139.3
05-Nov-16 13:45:00	36	-3.9	199	40	105	100	6.4	4.00	7.0	39000	1.012	10140.1
05-Nov-16 14:00:00	Gas SG=0.640											
05-Nov-16 14:00:00	36	-2.3	203	40	107	100	6.4	4.00	7.0	39000	1.008	10140.9
05-Nov-16 14:15:00	36	-1.7	203	40	108	100	6.4	4.00	7.0	39000	1.006	10141.5
05-Nov-16 14:30:00	36	-1.9	202	40	107	100	6.4	4.00	7.0	39000	1.018	10142.1
05-Nov-16 14:45:00	36	-2.7	198	40	105	100	6.4	4.00	7.0	39000	1.016	10142.7
05-Nov-16 15:00:00	36	-3.4	200	40	108	100	6.4	4.00	7.0	39000	1.024	10143.2
05-Nov-16 15:15:00	36	-4.6	196	40	105	100	6.4	4.00	7.0	39000	1.011	10143.8
05-Nov-16 15:30:00	36	-3.3	201	40	108	100	6.4	4.00	7.0	39000	1.025	10144.4
05-Nov-16 15:45:00	36	-3.8	202	39	104	100	6.4	4.00	7.0	39000	1.017	10145.0
05-Nov-16 16:00:00	36	-3.4	201	39	107	100	6.4	4.00	7.0	39000	1.021	10145.5
05-Nov-16 16:15:00	36	-4.7	199	39	104	100	6.4	4.00	7.0	39000	1.018	10146.3
05-Nov-16 16:30:00	36	-4.0	197	38	105	100	6.4	4.00	7.0	39000	1.019	10147.1
05-Nov-16 16:45:00	36	-4.5	201	38	105	100	6.4	4.00	7.0	39000	1.015	10147.9
05-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
05-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=66.96mS@33.3degC,Water Density=1012kg/m3@34.7DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-182mV2, Salinity=38000ppm.											
05-Nov-16 17:00:00	36	-3.0	199	38	104	100	6.4	4.00	7.0	38000	1.016	10148.8
05-Nov-16 17:15:00	36	-4.5	199	37	104	100	6.4	4.00	7.0	38000	1.015	10149.4
05-Nov-16 17:30:00	36	-3.8	191	36	104	100	6.4	4.00	7.0	38000	1.006	10150.1
05-Nov-16 17:45:00	36	-3.8	205	35	105	100	6.4	4.00	7.0	38000	1.014	10150.8
05-Nov-16 18:00:00	36	-1.5	196	35	102	100	6.4	4.00	7.0	38000	1.015	10151.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
05-Nov-16 18:15:00	36	-1.5	197	35	105	100	6.4	4.00	7.0	38000	1.016	10152.2
05-Nov-16 18:30:00	36	-1.4	195	34	102	100	6.4	4.00	7.0	38000	1.014	10152.9
05-Nov-16 18:45:00	36	-1.4	196	33	102	100	6.4	4.00	7.0	38000	1.007	10153.6
05-Nov-16 19:00:00	36	0.2	195	33	104	100	6.4	4.00	7.0	38000	1.012	10154.3
05-Nov-16 19:15:00	36	1.6	191	33	103	100	6.4	4.00	7.0	38000	1.012	10155.0
05-Nov-16 19:30:00	36	1.6	195	32	104	100	6.4	4.00	7.0	38000	1.015	10155.7
05-Nov-16 19:45:00	36	1.6	193	32	103	100	6.4	4.00	7.0	38000	1.011	10156.3
05-Nov-16 20:00:00	Gas SG=0.642											
05-Nov-16 20:00:00	36	1.7	196	32	102	100	6.4	4.00	7.0	38000	1.010	10157.0
05-Nov-16 20:15:00	36	1.6	194	32	102	100	6.4	4.00	7.0	38000	1.011	10157.7
05-Nov-16 20:30:00	36	2.1	192	31	102	100	6.4	4.00	7.0	38000	1.014	10158.4
05-Nov-16 20:45:00	36	4.3	193	31	101	100	6.4	4.00	7.0	38000	1.006	10159.1
05-Nov-16 21:00:00	36	4.5	190	31	102	100	6.4	4.00	7.0	38000	1.011	10159.8
05-Nov-16 21:15:00	36	3.1	193	31	102	100	6.4	4.00	7.0	38000	1.016	10160.6
05-Nov-16 21:30:00	36	1.6	193	31	102	100	6.4	4.00	7.0	38000	1.013	10161.4
05-Nov-16 21:45:00	36	1.6	192	31	102	100	6.4	4.00	7.0	38000	1.015	10162.2
05-Nov-16 22:00:00	36	1.5	198	31	103	100	6.4	4.00	7.0	38000	1.008	10163.0
05-Nov-16 22:15:00	36	1.6	194	31	101	100	6.4	4.00	7.0	38000	1.018	10163.8
05-Nov-16 22:30:00	36	1.5	198	31	102	100	6.4	4.00	7.0	38000	1.005	10164.6
05-Nov-16 22:45:00	36	1.4	194	31	100	100	6.4	4.00	7.0	38000	1.014	10165.4
05-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
05-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=56.03mS@24.2degC,Water Density=1014.5kg/m3@25.7DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-180.8mV2, Salinity=38000ppm.											
05-Nov-16 23:00:00	36	1.5	193	31	102	100	6.3	4.00	8.0	38000	1.012	10166.2
05-Nov-16 23:15:00	36	1.4	193	31	100	100	6.3	4.00	8.0	38000	1.012	10166.9
05-Nov-16 23:30:00	36	1.6	194	31	102	100	6.3	4.00	8.0	38000	1.008	10167.6
05-Nov-16 23:45:00	36	1.6	199	31	101	100	6.3	4.00	8.0	38000	1.014	10168.3
06-Nov-16 00:00:00	36	2.1	196	31	102	100	6.3	4.00	8.0	38000	1.016	10169.0
06-Nov-16 00:15:00	36	2.7	189	31	101	100	6.3	4.00	8.0	38000	1.011	10169.7
06-Nov-16 00:30:00	36	2.6	200	31	103	100	6.3	4.00	8.0	38000	1.007	10170.4
06-Nov-16 00:45:00	36	4.5	192	30	100	100	6.3	4.00	8.0	38000	1.013	10171.1
06-Nov-16 00:54:00	WHP dropping, well slugging.											
06-Nov-16 01:00:00	36	4.4	164	30	87	100	6.3	4.00	8.0	38000	0.924	10171.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
06-Nov-16 01:12:00	Lifted 1.75" Orifice Plate.											
06-Nov-16 01:12:00	End of MP.											
06-Nov-16 01:15:00	36	4.5	227	30	111	100	6.3	4.00	8.0	38000		10172.6
06-Nov-16 01:30:00	36	4.5	182	31	102	100	6.3	4.00	8.0	38000		10173.4
06-Nov-16 01:45:00	36	4.5	197	31	102	100	6.3	4.00	8.0	38000		10174.2
06-Nov-16 02:00:00	Gas SG=0.644											
06-Nov-16 02:00:00	36	4.5	183	30	99	100	6.3	4.00	8.0	38000		10175.0
06-Nov-16 02:15:00	36	4.5	192	30	100	100	6.3	4.00	8.0	38000		10175.7
06-Nov-16 02:16:00	MP on 36/64" Fixed Choke.											
06-Nov-16 02:16:00	Lowered 1.75" Orifice Plate.											
06-Nov-16 02:30:00	36	4.7	186	30	102	100	6.3	4.00	8.0	38000		10176.4
06-Nov-16 02:45:00	36	4.7	196	29	100	100	6.3	4.00	8.0	38000	1.017	10177.0
06-Nov-16 03:00:00	36	4.7	189	29	100	100	6.3	4.00	8.0	38000	1.017	10177.7
06-Nov-16 03:15:00	36	4.7	193	29	102	100	6.3	4.00	8.0	38000	1.012	10178.5
06-Nov-16 03:30:00	36	4.7	190	29	100	100	6.3	4.00	8.0	38000	1.016	10179.3
06-Nov-16 03:45:00	36	4.5	191	29	102	100	6.3	4.00	8.0	38000	1.006	10180.1
06-Nov-16 04:00:00	36	4.7	194	29	100	100	6.3	4.00	8.0	38000	1.004	10181.0
06-Nov-16 04:15:00	36	4.5	186	29	102	100	6.3	4.00	8.0	38000	1.024	10181.8
06-Nov-16 04:30:00	36	4.5	189	29	100	100	6.3	4.00	8.0	38000	1.009	10182.6
06-Nov-16 04:45:00	36	4.5	193	29	100	100	6.3	4.00	8.0	38000	1.004	10183.4
06-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
06-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=55.63mS@23.4degC,Water Density=1015kg/m3@25.2DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-184mV2, Salinity=38000ppm.											
06-Nov-16 05:00:00	36	4.7	184	29	102	100	6.3	4.00	8.0	38000	1.025	10184.2
06-Nov-16 05:01:00	Pumped 68 bbls from tank to pond.											
06-Nov-16 05:15:00	36	4.5	193	29	102	100	6.3	4.00	8.0	38000	1.008	10184.9
06-Nov-16 05:30:00	36	4.6	195	29	103	100	6.3	4.00	8.0	38000	1.024	10185.6
06-Nov-16 05:45:00	36	4.5	187	29	100	100	6.3	4.00	8.0	38000	1.019	10186.2
06-Nov-16 06:00:00	36	4.5	194	29	102	100	6.3	4.00	8.0	38000	1.016	10186.9
06-Nov-16 06:15:00	36	4.5	190	29	102	100	6.3	4.00	8.0	38000	1.019	10187.6
06-Nov-16 06:30:00	36	4.5	197	29	102	100	6.3	4.00	8.0	38000	1.017	10188.3
06-Nov-16 06:45:00	36	4.5	189	30	102	100	6.3	4.00	8.0	38000	1.016	10189.0
06-Nov-16 07:00:00	36	4.5	191	31	102	100	6.3	4.00	8.0	38000	1.015	10189.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
06-Nov-16 07:15:00	36	4.5	189	31	101	100	6.3	4.00	8.0	38000	1.013	10190.5
06-Nov-16 07:30:00	36	4.3	192	32	101	100	6.3	4.00	8.0	38000	1.015	10191.3
06-Nov-16 07:45:00	36	1.2	195	33	100	100	6.3	4.00	8.0	38000	1.018	10192.1
06-Nov-16 08:00:00	Gas SG=0.642											
06-Nov-16 08:00:00	36	1.2	192	34	102	100	6.3	4.00	8.0	38000	1.019	10192.9
06-Nov-16 08:15:00	36	1.2	201	34	101	100	6.3	4.00	8.0	38000	1.013	10193.4
06-Nov-16 08:30:00	36	1.2	196	34	101	100	6.3	4.00	8.0	38000	1.019	10193.8
06-Nov-16 08:45:00	36	0.5	194	35	102	100	6.3	4.00	8.0	38000	1.016	10194.3
06-Nov-16 09:00:00	36	1.2	199	35	102	100	6.3	4.00	8.0	38000	1.014	10194.8
06-Nov-16 09:15:00	36	1.2	200	35	104	100	6.3	4.00	8.0	38000	1.019	10195.4
06-Nov-16 09:30:00	36	-1.7	193	36	102	100	6.3	4.00	8.0	38000	1.024	10196.1
06-Nov-16 09:45:00	36	-1.7	196	36	102	100	6.3	4.00	8.0	38000	1.015	10196.8
06-Nov-16 10:00:00	36	-1.7	193	37	102	100	6.3	4.00	8.0	38000	1.016	10197.5
06-Nov-16 10:15:00	36	-1.5	197	37	104	100	6.3	4.00	8.0	38000	1.016	10198.4
06-Nov-16 10:30:00	36	-1.6	202	38	104	100	6.3	4.00	8.0	38000	1.019	10199.4
06-Nov-16 10:45:00	36	-1.7	197	38	104	100	6.3	4.00	8.0	38000	1.023	10200.3
06-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
06-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=64.74mS@29.4degC,Water Density=1014.3kg/m3@30DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-185mV2, Salinity=40000ppm.											
06-Nov-16 11:00:00	Flushed VX liquid port, found trace of sand and scales.											
06-Nov-16 11:00:00	36	-1.7	168	38	82	100	6.4	4.00	7.0	40000	0.881	10201.2
06-Nov-16 11:15:00	36	-1.7	239	39	115	100	6.4	4.00	7.0	40000	0.992	10201.9
06-Nov-16 11:30:00	36	-1.5	192	39	110	100	6.4	4.00	7.0	40000	1.172	10202.6
06-Nov-16 11:45:00	36	-1.7	202	39	105	100	6.4	4.00	7.0	40000	1.041	10203.3
06-Nov-16 12:00:00	36	-1.7	197	39	105	100	6.4	4.00	7.0	40000	1.055	10204.0
06-Nov-16 12:15:00	36	-1.7	200	40	105	100	6.4	4.00	7.0	40000	1.030	10204.6
06-Nov-16 12:30:00	36	-1.9	200	40	106	100	6.4	4.00	7.0	40000	1.036	10205.3
06-Nov-16 12:45:00	36	-1.7	199	40	105	100	6.4	4.00	7.0	40000	1.026	10206.0
06-Nov-16 13:00:00	36	-1.7	195	40	104	100	6.4	4.00	7.0	40000	1.027	10206.7
06-Nov-16 13:15:00	36	-1.5	202	40	105	100	6.4	4.00	7.0	40000	1.013	10207.4
06-Nov-16 13:30:00	36	-1.7	192	40	107	100	6.4	4.00	7.0	40000	1.025	10208.1
06-Nov-16 13:45:00	36	-3.3	196	40	107	100	6.4	4.00	7.0	40000	1.015	10208.8
06-Nov-16 14:00:00	Took Isotube sample #37 from separator gas line at 91.9psia 41.4deg C.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
06-Nov-16 14:00:00	Gas SG=0.640											
06-Nov-16 14:00:00	36	-1.7	199	40	107	100	6.4	4.00	7.0	40000	1.012	10209.5
06-Nov-16 14:15:00	36	-1.7	198	40	107	100	6.4	4.00	7.0	40000	1.017	10209.9
06-Nov-16 14:30:00	36	-1.7	200	40	107	100	6.4	4.00	7.0	40000	1.014	10210.4
06-Nov-16 14:45:00	36	-3.1	198	40	107	100	6.4	4.00	7.0	40000	1.012	10210.9
06-Nov-16 15:00:00	36	-1.8	199	40	107	100	6.4	4.00	7.0	40000	1.017	10211.3
06-Nov-16 15:15:00	36	-2.5	195	40	107	100	6.4	4.00	7.0	40000	1.019	10212.1
06-Nov-16 15:30:00	36	-4.6	192	39	108	100	6.4	4.00	7.0	40000	1.012	10212.9
06-Nov-16 15:45:00	36	-4.5	200	39	107	100	6.4	4.00	7.0	40000	1.011	10213.7
06-Nov-16 16:00:00	36	-4.3	197	39	107	100	6.4	4.00	7.0	40000	1.015	10214.5
06-Nov-16 16:15:00	36	-4.4	193	38	107	100	6.4	4.00	7.0	40000	1.015	10215.2
06-Nov-16 16:30:00	36	-4.3	194	38	107	100	6.4	4.00	7.0	40000	1.017	10215.9
06-Nov-16 16:45:00	36	-4.5	196	38	105	100	6.4	4.00	7.0	40000	1.007	10216.6
06-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
06-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=64.45mS@30.4degC,Water Density=1013.3kg/m3@32.3DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-192mV2, Salinity=39000ppm.											
06-Nov-16 17:00:00	36	-1.7	197	37	107	100	6.5	4.00	7.0	39000	1.010	10217.3
06-Nov-16 17:15:00	36	-2.0	200	36	106	100	6.5	4.00	7.0	39000	1.013	10218.0
06-Nov-16 17:30:00	36	-3.1	201	36	105	100	6.5	4.00	7.0	39000	1.019	10218.7
06-Nov-16 17:45:00	36	-4.5	197	35	107	100	6.5	4.00	7.0	39000	1.018	10219.4
06-Nov-16 18:00:00	36	-3.9	196	35	107	100	6.5	4.00	7.0	39000	1.014	10220.0
06-Nov-16 18:15:00	36	-1.4	195	34	105	100	6.5	4.00	7.0	39000	1.008	10220.7
06-Nov-16 18:30:00	36	-1.4	192	33	107	100	6.5	4.00	7.0	39000	1.008	10221.4
06-Nov-16 18:45:00	36	0.2	198	33	105	100	6.5	4.00	7.0	39000	1.009	10222.1
06-Nov-16 19:00:00	36	1.8	192	32	107	100	6.5	4.00	7.0	39000	1.015	10222.8
06-Nov-16 19:15:00	36	1.7	194	32	105	100	6.5	4.00	7.0	39000	1.009	10223.5
06-Nov-16 19:30:00	36	1.9	192	31	105	100	6.5	4.00	7.0	39000	1.014	10224.2
06-Nov-16 19:45:00	36	4.7	194	31	105	100	6.5	4.00	7.0	39000	1.014	10224.9
06-Nov-16 20:00:00	Gas SG=0.642											
06-Nov-16 20:00:00	36	4.7	197	30	105	100	6.5	4.00	7.0	39000	1.010	10225.6
06-Nov-16 20:15:00	36	4.7	191	31	106	100	6.5	4.00	7.0	39000	1.015	10226.3
06-Nov-16 20:30:00	36	4.7	189	30	104	100	6.5	4.00	7.0	39000	1.016	10227.0
06-Nov-16 20:45:00	36	4.7	191	30	105	100	6.5	4.00	7.0	39000	1.011	10227.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
06-Nov-16 21:00:00	36	4.7	187	30	103	100	6.5	4.00	7.0	39000	1.014	10228.3
06-Nov-16 21:15:00	36	4.7	190	30	105	100	6.5	4.00	7.0	39000	1.010	10229.1
06-Nov-16 21:30:00	36	4.7	191	29	105	100	6.5	4.00	7.0	39000	1.016	10229.9
06-Nov-16 21:45:00	36	4.7	194	29	105	100	6.5	4.00	7.0	39000	1.013	10230.7
06-Nov-16 22:00:00	36	4.7	189	30	105	100	6.5	4.00	7.0	39000	1.013	10231.5
06-Nov-16 22:15:00	36	4.5	193	29	103	100	6.5	4.00	7.0	39000	1.013	10232.2
06-Nov-16 22:30:00	36	4.7	193	29	105	100	6.5	4.00	7.0	39000	1.012	10232.9
06-Nov-16 22:45:00	36	5.1	185	29	102	100	6.5	4.00	7.0	39000	1.005	10233.6
06-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
06-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=55.98mS@23.3degC,Water Density=1014.7kg/m3@25.3DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-237.6mV2, Salinity=39000ppm.											
06-Nov-16 23:00:00	36	7.1	200	29	105	100	6.4	4.00	8.0	39000	1.005	10234.3
06-Nov-16 23:15:00	36	6.7	199	29	103	100	6.4	4.00	8.0	39000	1.021	10235.0
06-Nov-16 23:30:00	36	7.7	190	29	105	100	6.4	4.00	8.0	39000	1.023	10235.7
06-Nov-16 23:45:00	36	7.7	195	29	103	100	6.4	4.00	8.0	39000	1.008	10236.4
07-Nov-16 00:00:00	36	7.7	189	29	106	100	6.4	4.00	8.0	39000	1.020	10237.1
07-Nov-16 00:15:00	36	7.7	192	28	105	100	6.4	4.00	8.0	39000	1.018	10237.9
07-Nov-16 00:30:00	36	7.6	195	29	105	100	6.4	4.00	8.0	39000	1.017	10238.7
07-Nov-16 00:45:00	36	7.7	185	29	105	100	6.4	4.00	8.0	39000	1.021	10239.5
07-Nov-16 01:00:00	36	7.7	190	29	105	100	6.4	4.00	8.0	39000	1.011	10240.3
07-Nov-16 01:15:00	36	6.8	187	29	105	100	6.4	4.00	8.0	39000	1.012	10241.0
07-Nov-16 01:30:00	36	7.1	191	29	104	100	6.4	4.00	8.0	39000	1.013	10241.7
07-Nov-16 01:45:00	36	7.5	192	29	105	100	6.4	4.00	8.0	39000	1.013	10242.4
07-Nov-16 02:00:00	Gas SG=0.642											
07-Nov-16 02:00:00	36	7.5	186	29	105	100	6.4	4.00	8.0	39000	1.015	10243.0
07-Nov-16 02:15:00	36	7.6	187	29	105	100	6.4	4.00	8.0	39000	1.014	10243.7
07-Nov-16 02:30:00	36	7.7	194	28	105	100	6.4	4.00	8.0	39000	1.011	10244.4
07-Nov-16 02:45:00	36	7.5	188	29	103	100	6.4	4.00	8.0	39000	1.017	10245.1
07-Nov-16 03:00:00	36	7.7	194	28	105	100	6.4	4.00	8.0	39000	1.009	10245.8
07-Nov-16 03:15:00	36	7.7	188	29	105	100	6.4	4.00	8.0	39000	1.022	10246.6
07-Nov-16 03:30:00	36	7.7	188	29	105	100	6.4	4.00	8.0	39000	1.010	10247.4
07-Nov-16 03:45:00	36	7.7	188	28	105	100	6.4	4.00	8.0	39000	1.014	10248.2
07-Nov-16 04:00:00	36	7.6	191	28	105	100	6.4	4.00	8.0	39000	1.015	10249.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
07-Nov-16 04:15:00	36	7.7	191	28	105	100	6.4	4.00	8.0	39000	1.014	10249.8
07-Nov-16 04:30:00	36	7.7	189	28	103	100	6.4	4.00	8.0	39000	1.009	10250.6
07-Nov-16 04:45:00	36	7.7	189	28	105	100	6.4	4.00	8.0	39000	1.014	10251.4
07-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
07-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.07mS@21.7degC,Water Density=1015.3kg/m3@23.6DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-248.7mV2, Salinity=39000ppm.											
07-Nov-16 05:00:00	36	7.7	192	29	105	100	6.3	4.00	8.0	39000	1.014	10252.3
07-Nov-16 05:01:00	Pumped 66 bbls from tank to pond.											
07-Nov-16 05:15:00	36	7.7	191	28	103	100	6.3	4.00	8.0	39000	1.011	10252.9
07-Nov-16 05:30:00	36	7.7	192	28	105	100	6.3	4.00	8.0	39000	1.017	10253.6
07-Nov-16 05:45:00	36	7.7	187	28	105	100	6.3	4.00	8.0	39000	1.014	10254.3
07-Nov-16 06:00:00	36	7.7	191	28	103	100	6.3	4.00	8.0	39000	1.011	10255.0
07-Nov-16 06:15:00	36	7.7	192	28	105	100	6.3	4.00	8.0	39000	1.009	10255.6
07-Nov-16 06:25:00	DART computer crashed, needed to restart.											
07-Nov-16 06:30:00	36	7.0	191	29	104	100	6.3	4.00	8.0	39000	1.022	10256.2
07-Nov-16 06:45:00	36	5.8	191	30	106	100	6.3	4.00	8.0	39000	1.040	10256.7
07-Nov-16 06:50:00	DART computer restarted, acquisition resumed.											
07-Nov-16 07:00:00	36	4.6	190	31	103	100	6.3	4.00	8.0	39000	1.019	10257.3
07-Nov-16 07:15:00	36	4.3	198	32	105	100	6.3	4.00	8.0	39000	1.014	10258.0
07-Nov-16 07:30:00	36	4.1	191	32	103	100	6.3	4.00	8.0	39000	1.015	10258.7
07-Nov-16 07:45:00	36	1.2	201	33	107	100	6.3	4.00	8.0	39000	1.013	10259.4
07-Nov-16 08:00:00	Gas SG=0.640											
07-Nov-16 08:00:00	36	1.2	192	33	105	100	6.3	4.00	8.0	39000	1.014	10260.1
07-Nov-16 08:15:00	36	1.2	196	33	107	100	6.3	4.00	8.0	39000	1.019	10260.8
07-Nov-16 08:30:00	36	1.2	198	34	103	100	6.3	4.00	8.0	39000	1.016	10261.4
07-Nov-16 08:45:00	36	1.2	192	34	105	100	6.3	4.00	8.0	39000	1.012	10262.1
07-Nov-16 09:00:00	36	1.1	199	35	105	100	6.3	4.00	8.0	39000	1.012	10262.8
07-Nov-16 09:15:00	36	-1.7	199	35	104	100	6.3	4.00	8.0	39000	1.020	10263.6
07-Nov-16 09:30:00	36	-1.7	197	36	93	100	6.3	4.00	8.0	39000	1.030	10264.4
07-Nov-16 09:45:00	36	-1.7	189	37	93	100	6.3	4.00	8.0	39000	1.027	10265.2
07-Nov-16 10:00:00	36	-1.7	198	38	94	100	6.3	4.00	8.0	39000	1.018	10266.0
07-Nov-16 10:15:00	36	-1.7	190	38	93	100	6.3	4.00	8.0	39000	1.017	10266.7
07-Nov-16 10:30:00	36	-1.5	193	39	95	100	6.3	4.00	8.0	39000	1.038	10267.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
07-Nov-16 10:45:00	36	-1.7	194	39	93	100	6.3	4.00	8.0	39000	1.023	10268.1
07-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=3%, Gas SG=0.640.											
07-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=66.1mS@31.3degC,Water Density=1012.8kg/m3@31.8DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-265.1mV2, Salinity=39000ppm.											
07-Nov-16 11:00:00	36	-2.1	196	39	95	100	6.4	3.00	7.0	39000	1.026	10268.8
07-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
07-Nov-16 11:15:00	36	-2.3	198	40	93	100	6.4	3.00	7.0	39000	1.022	10269.6
07-Nov-16 11:30:00	36	-4.0	198	40	96	100	6.4	3.00	7.0	39000	1.024	10270.4
07-Nov-16 11:45:00	36	-4.0	193	40	96	100	6.4	3.00	7.0	39000	1.028	10271.2
07-Nov-16 12:00:00	36	-4.5	197	41	96	100	6.4	3.00	7.0	39000	1.023	10272.0
07-Nov-16 12:15:00	36	-4.5	192	41	96	100	6.4	3.00	7.0	39000	1.028	10272.6
07-Nov-16 12:30:00	36	-4.6	193	41	96	100	6.4	3.00	7.0	39000	1.019	10273.2
07-Nov-16 12:45:00	36	-4.5	195	41	96	100	6.4	3.00	7.0	39000	1.017	10273.8
07-Nov-16 13:00:00	36	-4.3	195	41	98	100	6.4	3.00	7.0	39000	1.018	10274.3
07-Nov-16 13:15:00	36	-3.8	199	39	98	100	6.4	3.00	7.0	39000	1.022	10274.9
07-Nov-16 13:30:00	36	-4.5	201	40	98	100	6.4	3.00	7.0	39000	1.021	10275.5
07-Nov-16 13:45:00	36	-4.5	197	41	92	100	6.4	3.00	7.0	39000	1.031	10276.1
07-Nov-16 14:00:00	Gas SG=0.640											
07-Nov-16 14:00:00	36	-4.5	196	41	93	100	6.4	3.00	7.0	39000	1.023	10276.6
07-Nov-16 14:15:00	36	-4.5	198	41	93	100	6.4	3.00	7.0	39000	1.032	10277.3
07-Nov-16 14:30:00	36	-4.5	196	41	93	100	6.4	3.00	7.0	39000	1.026	10278.0
07-Nov-16 14:45:00	36	-4.5	199	41	93	100	6.4	3.00	7.0	39000	1.028	10278.7
07-Nov-16 15:00:00	36	-4.5	192	41	92	100	6.4	3.00	7.0	39000	1.033	10279.4
07-Nov-16 15:15:00	36	-4.5	196	40	91	100	6.4	3.00	7.0	39000	1.019	10280.0
07-Nov-16 15:30:00	36	-4.5	190	40	92	100	6.4	3.00	7.0	39000	1.037	10280.5
07-Nov-16 15:45:00	36	-4.5	196	40	92	100	6.4	3.00	7.0	39000	1.023	10281.1
07-Nov-16 16:00:00	36	-4.5	195	40	92	100	6.4	3.00	7.0	39000	1.029	10281.7
07-Nov-16 16:15:00	36	-4.3	197	39	91	100	6.4	3.00	7.0	39000	1.026	10282.4
07-Nov-16 16:30:00	WHP dropping, well slugging.											
07-Nov-16 16:30:00	36	-4.3	174	39	83	100	6.4	3.00	7.0	39000	1.011	10283.1
07-Nov-16 16:45:00	36	-4.5	226	39	95	100	6.4	3.00	7.0	39000	0.941	10283.8
07-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
07-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=63.25mS@28degC,Water Density=1014.7kg/m3@29.7DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-110mV2, Salinity=40000ppm.											
07-Nov-16 17:00:00	36	-4.5	199	38	89	100	6.5	4.00	7.0	40000	1.119	10284.5
07-Nov-16 17:15:00	36	-4.4	199	38	86	100	6.5	4.00	7.0	40000	1.040	10285.3
07-Nov-16 17:30:00	36	-4.3	194	37	86	100	6.5	4.00	7.0	40000	1.049	10286.1
07-Nov-16 17:45:00	36	-4.3	196	36	85	100	6.5	4.00	7.0	40000	1.020	10286.9
07-Nov-16 18:00:00	36	-4.3	198	36	87	100	6.5	4.00	7.0	40000	1.046	10287.7
07-Nov-16 18:15:00	36	-3.4	190	35	84	100	6.5	4.00	7.0	40000	1.028	10288.4
07-Nov-16 18:30:00	36	-1.4	197	35	86	100	6.5	4.00	7.0	40000	1.031	10289.1
07-Nov-16 18:45:00	36	-1.3	196	34	85	100	6.5	4.00	7.0	40000	1.026	10289.7
07-Nov-16 19:00:00	36	-1.1	194	33	84	100	6.5	4.00	7.0	40000	1.028	10290.4
07-Nov-16 19:15:00	36	1.8	193	33	83	100	6.5	4.00	7.0	40000	1.022	10291.1
07-Nov-16 19:30:00	36	1.8	193	32	84	100	6.5	4.00	7.0	40000	1.021	10291.8
07-Nov-16 19:45:00	36	1.6	182	32	84	100	6.5	4.00	7.0	40000	1.033	10292.5
07-Nov-16 20:00:00	Gas SG=0.642.											
07-Nov-16 20:00:00	36	1.6	195	31	83	100	6.5	4.00	7.0	40000	1.019	10293.2
07-Nov-16 20:15:00	36	1.6	187	31	83	100	6.5	4.00	7.0	40000	1.027	10293.9
07-Nov-16 20:30:00	36	4.7	190	31	83	100	6.5	4.00	7.0	40000	1.016	10294.6
07-Nov-16 20:45:00	36	4.7	191	31	84	100	6.5	4.00	7.0	40000	1.027	10295.3
07-Nov-16 21:00:00	36	4.7	192	31	84	100	6.5	4.00	7.0	40000	1.027	10296.0
07-Nov-16 21:15:00	36	4.7	189	30	84	100	6.5	4.00	7.0	40000	1.018	10296.6
07-Nov-16 21:30:00	36	4.7	194	30	83	100	6.5	4.00	7.0	40000	1.022	10297.3
07-Nov-16 21:45:00	36	4.7	188	30	84	100	6.5	4.00	7.0	40000	1.017	10298.0
07-Nov-16 22:00:00	36	4.7	193	30	84	100	6.5	4.00	7.0	40000	1.025	10298.7
07-Nov-16 22:15:00	36	4.6	191	30	84	100	6.5	4.00	7.0	40000	1.025	10299.5
07-Nov-16 22:30:00	36	4.5	195	30	84	100	6.5	4.00	7.0	40000	1.023	10300.3
07-Nov-16 22:45:00	36	4.4	196	30	84	100	6.5	4.00	7.0	40000	1.026	10301.1
07-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
07-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.17mS@23.5degC,Water Density=1014.7kg/m3@25.1DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-276.1mV2, Salinity=39000ppm.											
07-Nov-16 23:00:00	36	2.8	194	31	83	100	6.5	4.00	7.0	39000	1.026	10301.9
07-Nov-16 23:15:00	36	1.5	191	31	83	100	6.5	4.00	7.0	39000	1.028	10302.6
07-Nov-16 23:30:00	36	1.4	189	31	83	100	6.5	4.00	7.0	39000	1.019	10303.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
07-Nov-16 23:45:00	36	2.1	190	31	83	100	6.5	4.00	7.0	39000	1.021	10304.0
08-Nov-16 00:00:00	36	2.6	190	31	83	100	6.5	4.00	7.0	39000	1.024	10304.7
08-Nov-16 00:15:00	36	2.2	189	31	84	100	6.5	4.00	7.0	39000	1.025	10305.4
08-Nov-16 00:30:00	36	2.0	195	31	83	100	6.5	4.00	7.0	39000	1.023	10306.1
08-Nov-16 00:45:00	36	1.6	189	31	84	100	6.5	4.00	7.0	39000	1.034	10306.8
08-Nov-16 00:48:00	DART computer crashed, needed to restart.											
08-Nov-16 01:00:00	36	1.9	193	31	83	100	6.5	4.00	7.0	39000	1.009	10307.5
08-Nov-16 01:15:00	36	2.3	192	31	83	100	6.5	4.00	7.0	39000	1.005	10308.1
08-Nov-16 01:30:00	36	2.7	191	30	83	100	6.5	4.00	7.0	39000	1.005	10308.8
08-Nov-16 01:45:00	36	3.1	190	30	83	100	6.5	4.00	7.0	39000	1.005	10309.5
08-Nov-16 02:00:00	36	3.4	189	30	83	100	6.5	4.00	7.0	39000	1.005	10310.2
08-Nov-16 02:15:00	36	3.8	188	30	83	100	6.5	4.00	7.0	39000	1.005	10311.0
08-Nov-16 02:30:00	36	4.2	187	30	83	100	6.5	4.00	7.0	39000	1.005	10311.8
08-Nov-16 02:43:00	DART computer restarted, acquisition resumed.											
08-Nov-16 02:45:00	36	-7.7	189	30	83	100	6.5	4.00	7.0	39000	1.005	10312.6
08-Nov-16 03:00:00	36	-87.3	198	30	83	100	6.5	4.00	7.0	39000	1.025	10313.4
08-Nov-16 03:15:00	36	-166.9	193	30	84	100	6.5	4.00	7.0	39000	1.032	10314.1
08-Nov-16 03:30:00	36	4.6	189	30	83	100	6.5	4.00	7.0	39000	1.025	10314.8
08-Nov-16 03:45:00	36	4.7	189	30	84	100	6.5	4.00	7.0	39000	1.026	10315.5
08-Nov-16 04:00:00	36	4.5	183	30	83	100	6.5	4.00	7.0	39000	1.021	10316.2
08-Nov-16 04:15:00	36	4.5	194	30	84	100	6.5	4.00	7.0	39000	1.011	10316.9
08-Nov-16 04:30:00	36	4.6	185	30	84	100	6.5	4.00	7.0	39000	1.033	10317.6
08-Nov-16 04:45:00	36	4.7	188	30	84	100	6.5	4.00	7.0	39000	1.022	10318.3
08-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
08-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.36mS@21.4degC,Water Density=1015.3kg/m3@23.4DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-278.2mV2, Salinity=39000ppm.											
08-Nov-16 05:00:00	36	4.5	189	30	83	100	6.5	4.00	7.0	39000	1.028	10319.0
08-Nov-16 05:01:00	Pumped 69.9 bbls from tank to pond.											
08-Nov-16 05:15:00	36	4.7	194	30	84	100	6.5	4.00	7.0	39000	1.026	10319.6
08-Nov-16 05:30:00	36	4.7	193	30	83	100	6.5	4.00	7.0	39000	1.026	10320.3
08-Nov-16 05:45:00	36	4.5	195	29	84	100	6.5	4.00	7.0	39000	1.020	10321.0
08-Nov-16 06:00:00	36	4.7	192	30	84	100	6.5	4.00	7.0	39000	1.027	10321.7
08-Nov-16 06:15:00	36	4.5	188	30	83	100	6.5	4.00	7.0	39000	1.026	10322.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
08-Nov-16 06:30:00	36	4.5	188	30	83	100	6.5	4.00	7.0	39000	1.026	10323.1
08-Nov-16 06:45:00	36	4.5	186	31	83	100	6.5	4.00	7.0	39000	1.023	10323.8
08-Nov-16 07:00:00	36	2.9	189	32	83	100	6.5	4.00	7.0	39000	1.022	10324.5
08-Nov-16 07:15:00	36	1.4	193	32	83	100	6.5	4.00	7.0	39000	1.023	10325.0
08-Nov-16 07:30:00	36	1.4	187	32	84	100	6.5	4.00	7.0	39000	1.030	10325.6
08-Nov-16 07:45:00	36	1.4	190	32	83	100	6.5	4.00	7.0	39000	1.027	10326.2
08-Nov-16 08:00:00	Gas SG=0.640.											
08-Nov-16 08:00:00	36	1.3	194	33	84	100	6.5	4.00	7.0	39000	1.030	10326.8
08-Nov-16 08:15:00	36	1.4	191	34	83	100	6.5	4.00	7.0	39000	1.027	10327.5
08-Nov-16 08:30:00	36	1.4	194	34	83	100	6.5	4.00	7.0	39000	1.027	10328.2
08-Nov-16 08:45:00	36	0.9	197	34	84	100	6.5	4.00	7.0	39000	1.030	10328.8
08-Nov-16 09:00:00	36	-0.6	191	35	84	100	6.5	4.00	7.0	39000	1.033	10329.5
08-Nov-16 09:15:00	36	-1.5	188	35	83	100	6.5	4.00	7.0	39000	1.021	10330.2
08-Nov-16 09:30:00	36	-1.3	194	36	84	100	6.5	4.00	7.0	39000	1.025	10330.9
08-Nov-16 09:45:00	36	-1.7	194	37	83	100	6.5	4.00	7.0	39000	1.028	10331.6
08-Nov-16 10:00:00	36	-1.7	193	37	84	100	6.5	4.00	7.0	39000	1.027	10332.3
08-Nov-16 10:15:00	36	-1.7	194	38	83	100	6.5	4.00	7.0	39000	1.026	10333.0
08-Nov-16 10:30:00	Took ALS sample from Separator. Cumulative=10334bbls, EC=65.6mS@31.1degC, pH=6.1.											
08-Nov-16 10:30:00	36	-1.7	194	38	84	100	6.5	4.00	7.0	39000	1.028	10333.7
08-Nov-16 10:45:00	36	-1.7	195	38	84	100	6.5	4.00	7.0	39000	1.027	10334.4
08-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
08-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=63.2mS@28.4degC,Water Density=1013.4kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-226mV2, Salinity=40000ppm.											
08-Nov-16 11:00:00	36	-1.5	195	39	84	100	6.5	4.00	7.0	40000	1.031	10335.0
08-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
08-Nov-16 11:15:00	36	-1.5	190	39	84	100	6.5	4.00	7.0	40000	1.030	10335.7
08-Nov-16 11:30:00	36	-1.6	192	39	84	100	6.5	4.00	7.0	40000	1.030	10336.4
08-Nov-16 11:45:00	36	-1.5	192	39	84	100	6.5	4.00	7.0	40000	1.028	10337.1
08-Nov-16 12:00:00	36	-1.7	194	40	83	100	6.5	4.00	7.0	40000	1.028	10337.8
08-Nov-16 12:15:00	36	-1.5	191	40	84	100	6.5	4.00	7.0	40000	1.024	10338.5
08-Nov-16 12:30:00	36	-3.5	193	40	84	100	6.5	4.00	7.0	40000	1.026	10339.2
08-Nov-16 12:45:00	36	-4.4	198	40	84	100	6.5	4.00	7.0	40000	1.027	10339.9
08-Nov-16 13:00:00	36	-3.5	190	40	84	100	6.5	4.00	7.0	40000	1.030	10340.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
08-Nov-16 13:15:00	36	-2.1	198	40	84	100	6.5	4.00	7.0	40000	1.027	10341.0
08-Nov-16 13:30:00	36	-4.5	198	41	86	100	6.5	4.00	7.0	40000	1.038	10341.5
08-Nov-16 13:45:00	36	-4.5	194	40	84	100	6.5	4.00	7.0	40000	1.028	10342.0
08-Nov-16 14:00:00	Gas SG=0.640.											
08-Nov-16 14:00:00	36	-4.5	201	40	86	100	6.5	4.00	7.0	40000	1.027	10342.4
08-Nov-16 14:15:00	36	-4.5	195	40	86	100	6.5	4.00	7.0	40000	1.032	10343.0
08-Nov-16 14:30:00	36	-4.5	197	40	84	100	6.5	4.00	7.0	40000	1.024	10343.6
08-Nov-16 14:45:00	36	-2.0	196	38	85	100	6.5	4.00	7.0	40000	1.025	10344.1
08-Nov-16 15:00:00	36	-4.2	194	40	84	100	6.5	4.00	7.0	40000	1.038	10344.7
08-Nov-16 15:15:00	36	-4.5	194	41	85	100	6.5	4.00	7.0	40000	1.022	10345.5
08-Nov-16 15:30:00	36	-4.5	199	41	85	100	6.5	4.00	7.0	40000	1.030	10346.3
08-Nov-16 15:45:00	36	-4.4	196	41	85	100	6.5	4.00	7.0	40000	1.031	10347.1
08-Nov-16 16:00:00	36	-4.5	193	40	85	100	6.5	4.00	7.0	40000	1.030	10347.9
08-Nov-16 16:15:00	36	-4.4	195	39	85	100	6.5	4.00	7.0	40000	1.027	10348.6
08-Nov-16 16:30:00	36	-4.3	193	39	86	100	6.5	4.00	7.0	40000	1.024	10349.3
08-Nov-16 16:45:00	36	-4.3	198	39	85	100	6.5	4.00	7.0	40000	1.025	10350.0
08-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
08-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=65.31mS@30degC,Water Density=1013.8kg/m3@31.3DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-250.3mV2, Salinity=40000ppm.											
08-Nov-16 17:00:00	36	-4.3	195	38	84	100	6.5	4.00	6.0	40000	1.024	10350.7
08-Nov-16 17:15:00	36	-4.3	195	37	86	100	6.5	4.00	6.0	40000	1.028	10351.4
08-Nov-16 17:30:00	36	-4.3	195	36	86	100	6.5	4.00	6.0	40000	1.024	10352.1
08-Nov-16 17:45:00	36	-4.3	193	36	86	100	6.5	4.00	6.0	40000	1.025	10352.8
08-Nov-16 18:00:00	36	-4.2	192	36	86	100	6.5	4.00	6.0	40000	1.019	10353.5
08-Nov-16 18:15:00	36	-1.2	192	35	84	100	6.5	4.00	6.0	40000	1.019	10354.1
08-Nov-16 18:30:00	36	-1.2	200	35	86	100	6.5	4.00	6.0	40000	1.025	10354.8
08-Nov-16 18:45:00	36	-1.2	189	34	84	100	6.5	4.00	6.0	40000	1.030	10355.5
08-Nov-16 19:00:00	36	-1.2	195	33	86	100	6.5	4.00	6.0	40000	1.021	10356.2
08-Nov-16 19:15:00	36	1.8	188	33	86	100	6.5	4.00	6.0	40000	1.032	10356.8
08-Nov-16 19:30:00	36	1.8	193	33	84	100	6.5	4.00	6.0	40000	1.012	10357.4
08-Nov-16 19:45:00	36	1.8	189	32	86	100	6.5	4.00	6.0	40000	1.027	10357.9
08-Nov-16 20:00:00	Gas SG=0.642.											
08-Nov-16 20:00:00	36	1.8	190	32	85	100	6.5	4.00	6.0	40000	1.025	10358.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
08-Nov-16 20:15:00	36	1.8	193	32	85	100	6.5	4.00	6.0	40000	1.027	10359.1
08-Nov-16 20:30:00	36	1.8	189	32	86	100	6.5	4.00	6.0	40000	1.029	10359.7
08-Nov-16 20:45:00	36	1.8	190	31	84	100	6.5	4.00	6.0	40000	1.022	10360.2
08-Nov-16 21:00:00	36	1.8	188	32	84	100	6.5	4.00	6.0	40000	1.025	10360.8
08-Nov-16 21:15:00	36	1.8	191	31	84	100	6.5	4.00	6.0	40000	1.023	10361.5
08-Nov-16 21:30:00	36	1.8	191	31	84	100	6.5	4.00	6.0	40000	1.026	10362.2
08-Nov-16 21:45:00	36	1.8	190	31	84	100	6.5	4.00	6.0	40000	1.021	10362.9
08-Nov-16 22:00:00	36	4.6	190	31	85	100	6.5	4.00	6.0	40000	1.028	10363.6
08-Nov-16 22:15:00	36	1.6	193	31	84	100	6.5	4.00	6.0	40000	1.021	10364.1
08-Nov-16 22:30:00	36	1.6	190	31	84	100	6.5	4.00	6.0	40000	1.017	10364.7
08-Nov-16 22:45:00	36	1.4	190	31	83	100	6.5	4.00	6.0	40000	1.021	10365.3
08-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
08-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.06mS@23.8degC,Water Density=1015kg/m3@25.5DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-280.2mV2, Salinity=40000ppm.											
08-Nov-16 23:00:00	36	1.6	196	31	84	100	6.5	4.00	6.0	40000	1.022	10365.9
08-Nov-16 23:15:00	36	1.6	187	31	84	100	6.5	4.00	6.0	40000	1.027	10366.4
08-Nov-16 23:30:00	36	1.6	196	31	84	100	6.5	4.00	6.0	40000	1.019	10367.0
08-Nov-16 23:45:00	36	1.6	187	31	84	100	6.5	4.00	6.0	40000	1.024	10367.6
09-Nov-16 00:00:00	36	1.6	195	31	83	100	6.5	4.00	6.0	40000	1.017	10368.2
09-Nov-16 00:15:00	36	1.6	189	31	84	100	6.5	4.00	6.0	40000	1.021	10368.6
09-Nov-16 00:30:00	36	1.4	193	31	84	100	6.5	4.00	6.0	40000	1.021	10369.1
09-Nov-16 00:45:00	36	1.6	191	31	84	100	6.5	4.00	6.0	40000	1.024	10369.6
09-Nov-16 01:00:00	36	1.6	180	30	81	100	6.5	4.00	6.0	40000	1.025	10370.0
09-Nov-16 01:15:00	36	1.6	208	30	84	100	6.5	4.00	6.0	40000	0.979	10370.7
09-Nov-16 01:30:00	36	1.6	189	30	86	100	6.5	4.00	6.0	40000	1.068	10371.4
09-Nov-16 01:45:00	36	1.6	192	30	84	100	6.5	4.00	6.0	40000	1.023	10372.1
09-Nov-16 02:00:00	Gas SG=0.642											
09-Nov-16 02:00:00	36	1.5	189	30	85	100	6.5	4.00	6.0	40000	1.035	10372.8
09-Nov-16 02:15:00	36	1.6	186	30	83	100	6.5	4.00	6.0	40000	1.023	10373.5
09-Nov-16 02:30:00	36	1.6	187	30	84	100	6.5	4.00	6.0	40000	1.020	10374.2
09-Nov-16 02:45:00	36	1.6	194	30	84	100	6.5	4.00	6.0	40000	1.021	10374.8
09-Nov-16 03:00:00	36	1.6	186	30	84	100	6.5	4.00	6.0	40000	1.024	10375.5
09-Nov-16 03:15:00	36	1.6	189	30	84	100	6.5	4.00	6.0	40000	1.023	10376.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
09-Nov-16 03:30:00	36	1.6	190	30	83	100	6.5	4.00	6.0	40000	1.019	10376.9
09-Nov-16 03:45:00	36	1.8	200	30	84	100	6.5	4.00	6.0	40000	1.022	10377.6
09-Nov-16 04:00:00	36	1.6	190	30	83	100	6.5	4.00	6.0	40000	1.032	10378.3
09-Nov-16 04:15:00	36	1.8	191	30	84	100	6.5	4.00	6.0	40000	1.024	10379.1
09-Nov-16 04:30:00	36	1.8	190	30	83	100	6.5	4.00	6.0	40000	1.027	10379.9
09-Nov-16 04:45:00	36	1.6	190	30	83	100	6.5	4.00	6.0	40000	1.020	10380.7
09-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=3%, Gas SG=0.642.											
09-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.06mS@22.6degC,Water Density=1015kg/m3@24.3DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-289.8mV2, Salinity=39000ppm.											
09-Nov-16 05:00:00	36	2.0	187	30	83	100	6.5	3.00	6.0	39000	1.016	10381.5
09-Nov-16 05:01:00	Pumped 60.3 bbls from tank to pond.											
09-Nov-16 05:15:00	36	4.3	192	31	84	100	6.5	3.00	6.0	39000	1.026	10382.2
09-Nov-16 05:30:00	36	4.1	192	31	84	100	6.5	3.00	6.0	39000	1.017	10382.9
09-Nov-16 05:45:00	36	4.5	190	31	84	100	6.5	3.00	6.0	39000	1.025	10383.6
09-Nov-16 06:00:00	36	4.6	187	31	84	100	6.5	3.00	6.0	39000	1.028	10384.3
09-Nov-16 06:15:00	36	4.1	191	31	84	100	6.5	3.00	6.0	39000	1.024	10385.1
09-Nov-16 06:30:00	36	3.3	186	31	84	100	6.5	3.00	6.0	39000	1.024	10385.9
09-Nov-16 06:45:00	36	1.6	188	31	83	100	6.5	3.00	6.0	39000	1.015	10386.7
09-Nov-16 07:00:00	36	1.6	185	32	83	100	6.5	3.00	6.0	39000	1.025	10387.5
09-Nov-16 07:15:00	36	1.4	200	32	84	100	6.5	3.00	6.0	39000	1.020	10388.2
09-Nov-16 07:30:00	36	1.6	193	33	83	100	6.5	3.00	6.0	39000	1.032	10388.9
09-Nov-16 07:45:00	36	1.6	196	33	84	100	6.5	3.00	6.0	39000	1.019	10389.6
09-Nov-16 08:00:00	Gas SG=0.640.											
09-Nov-16 08:00:00	36	1.4	189	33	84	100	6.5	3.00	6.0	39000	1.027	10390.3
09-Nov-16 08:15:00	36	-0.3	191	34	83	100	6.5	3.00	6.0	39000	1.023	10390.8
09-Nov-16 08:30:00	36	-1.5	187	34	83	100	6.5	3.00	6.0	39000	1.025	10391.4
09-Nov-16 08:45:00	36	-1.5	194	35	84	100	6.5	3.00	6.0	39000	1.032	10392.0
09-Nov-16 09:00:00	36	-1.5	197	35	83	100	6.5	3.00	6.0	39000	1.029	10392.5
09-Nov-16 09:15:00	36	-1.7	196	36	84	100	6.5	3.00	6.0	39000	1.028	10393.1
09-Nov-16 09:30:00	36	-1.7	196	37	84	100	6.5	3.00	6.0	39000	1.028	10393.7
09-Nov-16 09:45:00	36	-1.5	197	37	84	100	6.5	3.00	6.0	39000	1.028	10394.3
09-Nov-16 10:00:00	36	-1.5	189	38	84	100	6.5	3.00	6.0	39000	1.031	10394.9
09-Nov-16 10:15:00	36	-1.6	191	38	84	100	6.5	3.00	6.0	39000	1.028	10395.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
09-Nov-16 10:30:00	36	-1.5	191	39	84	100	6.5	3.00	6.0	39000	1.028	10396.2
09-Nov-16 10:45:00	36	-1.5	196	39	84	100	6.5	3.00	6.0	39000	1.017	10396.9
09-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
09-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=66mS@30degC,Water Density=1013.1kg/m3@31.1DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-252mV2, Salinity=40000ppm.											
09-Nov-16 11:00:00	36	-1.5	196	39	86	100	6.6	4.00	6.0	40000	1.030	10397.6
09-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
09-Nov-16 11:15:00	36	-3.1	191	40	84	100	6.6	4.00	6.0	40000	1.024	10398.3
09-Nov-16 11:30:00	36	-4.5	194	40	86	100	6.6	4.00	6.0	40000	1.029	10399.0
09-Nov-16 11:45:00	36	-2.5	191	40	84	100	6.6	4.00	6.0	40000	1.030	10399.7
09-Nov-16 12:00:00	36	-4.5	190	40	86	100	6.6	4.00	6.0	40000	1.030	10400.4
09-Nov-16 12:15:00	36	-4.5	195	40	85	100	6.6	4.00	6.0	40000	1.028	10401.1
09-Nov-16 12:30:00	36	-4.3	193	41	86	100	6.6	4.00	6.0	40000	1.030	10401.8
09-Nov-16 12:45:00	36	-4.5	196	41	86	100	6.6	4.00	6.0	40000	1.024	10402.4
09-Nov-16 13:00:00	36	-4.5	198	41	86	100	6.6	4.00	6.0	40000	1.027	10403.1
09-Nov-16 13:15:00	36	-4.5	190	41	86	100	6.6	4.00	6.0	40000	1.034	10403.8
09-Nov-16 13:30:00	36	-4.5	195	40	87	100	6.6	4.00	6.0	40000	1.024	10404.5
09-Nov-16 13:45:00	36	-4.5	192	38	88	100	6.6	4.00	6.0	40000	1.028	10405.2
09-Nov-16 14:00:00	Gas SG=0.640.											
09-Nov-16 14:00:00	36	-3.1	195	38	87	100	6.6	4.00	6.0	40000	1.031	10405.9
09-Nov-16 14:15:00	36	-4.3	189	39	86	100	6.6	4.00	6.0	40000	1.027	10406.3
09-Nov-16 14:30:00	36	-3.1	199	39	86	100	6.6	4.00	6.0	40000	1.018	10406.8
09-Nov-16 14:45:00	36	-4.3	188	40	86	100	6.6	4.00	6.0	40000	1.033	10407.3
09-Nov-16 15:00:00	36	-4.5	200	40	86	100	6.6	4.00	6.0	40000	1.027	10407.7
09-Nov-16 15:15:00	36	-4.3	193	41	86	100	6.6	4.00	6.0	40000	1.030	10408.2
09-Nov-16 15:30:00	36	-4.3	191	40	86	100	6.6	4.00	6.0	40000	1.021	10408.7
09-Nov-16 15:45:00	36	-4.3	194	39	88	100	6.6	4.00	6.0	40000	1.024	10409.1
09-Nov-16 16:00:00	36	-4.3	196	39	88	100	6.6	4.00	6.0	40000	1.028	10409.6
09-Nov-16 16:15:00	36	-4.3	198	37	87	100	6.6	4.00	6.0	40000	1.024	10410.0
09-Nov-16 16:30:00	36	-1.2	188	36	86	100	6.6	4.00	6.0	40000	1.026	10410.5
09-Nov-16 16:45:00	36	-1.2	196	36	86	100	6.6	4.00	6.0	40000	1.018	10411.0
09-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
09-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.2mS@28.9degC,Water Density=1013.8kg/m3@30.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-295.1mV2, Salinity=40000ppm.											
09-Nov-16 17:00:00	36	-1.2	190	35	87	100	6.6	4.00	6.0	40000	1.027	10411.4
09-Nov-16 17:15:00	36	-1.2	195	35	86	100	6.6	4.00	6.0	40000	1.016	10412.0
09-Nov-16 17:30:00	36	-1.3	193	35	86	100	6.6	4.00	6.0	40000	1.025	10412.6
09-Nov-16 17:45:00	36	-1.2	190	35	86	100	6.6	4.00	6.0	40000	1.020	10413.1
09-Nov-16 18:00:00	36	-1.4	193	35	87	100	6.6	4.00	6.0	40000	1.026	10413.7
09-Nov-16 18:15:00	36	-1.3	189	34	85	100	6.6	4.00	6.0	40000	1.021	10414.4
09-Nov-16 18:30:00	36	-1.2	192	34	86	100	6.6	4.00	6.0	40000	1.014	10415.1
09-Nov-16 18:45:00	36	-1.4	192	34	86	100	6.6	4.00	6.0	40000	1.030	10415.8
09-Nov-16 19:00:00	36	-0.1	192	33	87	100	6.6	4.00	6.0	40000	1.019	10416.5
09-Nov-16 19:15:00	36	1.8	189	33	86	100	6.6	4.00	6.0	40000	1.024	10417.2
09-Nov-16 19:30:00	36	1.8	191	33	87	100	6.6	4.00	6.0	40000	1.019	10417.9
09-Nov-16 19:45:00	36	1.8	187	33	86	100	6.6	4.00	6.0	40000	1.025	10418.5
09-Nov-16 20:00:00	Gas SG=0.642.											
09-Nov-16 20:00:00	36	1.8	187	32	86	100	6.6	4.00	6.0	40000	1.022	10419.2
09-Nov-16 20:15:00	36	1.7	189	32	86	100	6.6	4.00	6.0	40000	1.018	10419.9
09-Nov-16 20:30:00	36	1.6	192	32	86	100	6.6	4.00	6.0	40000	1.016	10420.6
09-Nov-16 20:45:00	36	1.6	196	32	87	100	6.6	4.00	6.0	40000	1.022	10421.3
09-Nov-16 21:00:00	36	1.6	194	33	86	100	6.6	4.00	6.0	40000	1.016	10422.0
09-Nov-16 21:15:00	36	1.6	192	33	86	100	6.6	4.00	6.0	40000	1.023	10422.7
09-Nov-16 21:30:00	36	1.6	189	33	86	100	6.6	4.00	6.0	40000	1.019	10423.4
09-Nov-16 21:45:00	36	1.6	187	32	86	100	6.6	4.00	6.0	40000	1.024	10424.1
09-Nov-16 22:00:00	36	1.6	194	32	86	100	6.6	4.00	6.0	40000	1.011	10424.8
09-Nov-16 22:15:00	36	1.6	188	32	86	100	6.6	4.00	6.0	40000	1.026	10425.3
09-Nov-16 22:30:00	36	1.6	191	32	86	100	6.6	4.00	6.0	40000	1.016	10425.9
09-Nov-16 22:45:00	36	1.6	194	32	86	100	6.6	4.00	6.0	40000	1.018	10426.5
09-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
09-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=57.48mS@21.7degC,Water Density=1016.3kg/m3@23.6DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-263.8mV2, Salinity=41000ppm.											
09-Nov-16 23:00:00	36	1.6	186	32	86	100	6.6	4.00	6.0	41000	1.032	10427.0
09-Nov-16 23:15:00	36	1.6	193	31	85	100	6.6	4.00	6.0	41000	1.011	10427.6
09-Nov-16 23:30:00	36	1.6	188	31	86	100	6.6	4.00	6.0	41000	1.028	10428.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
09-Nov-16 23:45:00	36	1.6	191	31	86	100	6.6	4.00	6.0	41000	1.020	10428.8
10-Nov-16 00:00:00	36	1.6	190	31	86	100	6.6	4.00	6.0	41000	1.021	10429.4
10-Nov-16 00:15:00	36	1.6	192	31	86	100	6.6	4.00	6.0	41000	1.010	10429.9
10-Nov-16 00:30:00	36	1.6	190	31	87	100	6.6	4.00	6.0	41000	1.036	10430.5
10-Nov-16 00:45:00	36	1.6	188	31	86	100	6.6	4.00	6.0	41000	1.016	10431.1
10-Nov-16 01:00:00	36	1.6	186	31	86	100	6.6	4.00	6.0	41000	1.024	10431.7
10-Nov-16 01:15:00	36	1.6	190	30	86	100	6.6	4.00	6.0	41000	1.023	10432.2
10-Nov-16 01:30:00	36	1.6	190	31	86	100	6.6	4.00	6.0	41000	1.021	10432.8
10-Nov-16 01:45:00	36	1.6	188	30	86	100	6.6	4.00	6.0	41000	1.024	10433.4
10-Nov-16 02:00:00	Gas SG=0.642.											
10-Nov-16 02:00:00	36	1.8	192	31	85	100	6.6	4.00	6.0	41000	1.018	10434.0
10-Nov-16 02:15:00	36	1.6	189	30	86	100	6.6	4.00	6.0	41000	1.017	10434.5
10-Nov-16 02:30:00	36	1.7	191	30	86	100	6.6	4.00	6.0	41000	1.019	10435.1
10-Nov-16 02:45:00	36	1.6	192	30	86	100	6.6	4.00	6.0	41000	1.023	10435.7
10-Nov-16 03:00:00	36	1.6	189	30	86	100	6.6	4.00	6.0	41000	1.017	10436.3
10-Nov-16 03:15:00	36	1.7	191	30	86	100	6.6	4.00	6.0	41000	1.023	10437.1
10-Nov-16 03:30:00	36	1.8	187	30	86	100	6.6	4.00	6.0	41000	1.012	10437.9
10-Nov-16 03:45:00	36	1.7	181	30	86	100	6.6	4.00	6.0	41000	1.039	10438.7
10-Nov-16 04:00:00	36	1.8	190	30	85	100	6.6	4.00	6.0	41000	1.015	10439.5
10-Nov-16 04:15:00	36	1.6	186	30	86	100	6.6	4.00	6.0	41000	1.025	10440.2
10-Nov-16 04:30:00	36	1.6	190	30	86	100	6.6	4.00	6.0	41000	1.018	10440.9
10-Nov-16 04:45:00	36	1.8	190	30	86	100	6.6	4.00	6.0	41000	1.023	10441.5
10-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=3%, Gas SG=0.642.											
10-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.18mS@21degC,Water Density=1016.3kg/m3@23.1DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-281.7mV2, Salinity=41000ppm.											
10-Nov-16 05:00:00	36	1.6	190	30	86	100	6.5	3.00	6.0	41000	1.018	10442.2
10-Nov-16 05:15:00	36	1.7	188	30	86	100	6.5	3.00	6.0	41000	1.024	10442.9
10-Nov-16 05:30:00	36	1.8	188	31	86	100	6.5	3.00	6.0	41000	1.029	10443.6
10-Nov-16 05:45:00	36	1.8	187	31	86	100	6.5	3.00	6.0	41000	1.021	10444.3
10-Nov-16 06:00:00	36	1.8	190	31	86	100	6.5	3.00	6.0	41000	1.022	10445.0
10-Nov-16 06:15:00	36	1.8	187	31	86	100	6.5	3.00	6.0	41000	1.023	10445.7
10-Nov-16 06:30:00	36	1.8	188	31	86	100	6.5	3.00	6.0	41000	1.021	10446.4
10-Nov-16 06:45:00	36	1.6	188	32	86	100	6.5	3.00	6.0	41000	1.022	10447.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
10-Nov-16 07:00:00	36	1.6	185	32	86	100	6.5	3.00	6.0	41000	1.028	10447.8
10-Nov-16 07:15:00	36	1.6	189	33	85	100	6.5	3.00	6.0	41000	1.022	10448.3
10-Nov-16 07:30:00	36	1.6	190	33	84	100	6.5	3.00	6.0	41000	1.018	10448.9
10-Nov-16 07:45:00	36	1.4	191	33	86	100	6.5	3.00	6.0	41000	1.023	10449.5
10-Nov-16 08:00:00	Gas SG=0.640.											
10-Nov-16 08:00:00	Pumped 65.3 bbls from tank to pond.											
10-Nov-16 08:00:00	36	-0.1	193	34	86	100	6.5	3.00	6.0	41000	1.021	10450.0
10-Nov-16 08:15:00	36	0.1	195	34	86	100	6.5	3.00	6.0	41000	1.023	10450.7
10-Nov-16 08:30:00	36	-1.4	190	35	86	100	6.5	3.00	6.0	41000	1.030	10451.4
10-Nov-16 08:45:00	36	-1.5	192	35	86	100	6.5	3.00	6.0	41000	1.026	10452.1
10-Nov-16 09:00:00	36	-1.5	192	36	86	100	6.5	3.00	6.0	41000	1.024	10452.8
10-Nov-16 09:15:00	36	-1.5	188	36	86	100	6.5	3.00	6.0	41000	1.028	10453.5
10-Nov-16 09:30:00	36	-1.5	188	36	86	100	6.5	3.00	6.0	41000	1.021	10454.2
10-Nov-16 09:45:00	36	-1.5	194	37	86	100	6.5	3.00	6.0	41000	1.024	10454.9
10-Nov-16 10:00:00	36	-1.5	190	38	86	100	6.5	3.00	6.0	41000	1.023	10455.6
10-Nov-16 10:15:00	36	-1.5	195	38	86	100	6.5	3.00	6.0	41000	1.023	10455.9
10-Nov-16 10:30:00	36	-1.5	192	37	86	100	6.5	3.00	6.0	41000	1.030	10456.3
10-Nov-16 10:45:00	36	-1.5	189	38	86	100	6.5	3.00	6.0	41000	1.030	10456.6
10-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
10-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.5mS@28.3degC,Water Density=1014.1kg/m3@29.8DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-260mV2, Salinity=41000ppm.											
10-Nov-16 11:00:00	36	-1.5	195	37	87	100	6.6	4.00	6.0	41000	1.021	10457.0
10-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
10-Nov-16 11:15:00	36	-1.5	192	38	86	100	6.6	4.00	6.0	41000	1.030	10457.6
10-Nov-16 11:30:00	36	-1.8	196	38	86	100	6.6	4.00	6.0	41000	1.024	10458.3
10-Nov-16 11:45:00	36	-1.6	194	39	86	100	6.6	4.00	6.0	41000	1.030	10459.0
10-Nov-16 12:00:00	36	-4.5	190	40	86	100	6.6	4.00	6.0	41000	1.025	10459.7
10-Nov-16 12:15:00	36	-3.9	195	40	87	100	6.6	4.00	6.0	41000	1.026	10460.3
10-Nov-16 12:30:00	36	-4.5	193	40	87	100	6.6	4.00	6.0	41000	1.031	10460.9
10-Nov-16 12:45:00	36	-1.4	198	40	87	100	6.6	4.00	6.0	41000	1.024	10461.4
10-Nov-16 13:00:00	36	-4.5	190	40	87	100	6.6	4.00	6.0	41000	1.030	10462.0
10-Nov-16 13:15:00	36	-4.5	190	40	86	100	6.6	4.00	6.0	41000	1.026	10462.6
10-Nov-16 13:30:00	36	-2.3	191	38	86	100	6.6	4.00	6.0	41000	1.022	10463.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
10-Nov-16 13:45:00	36	-1.8	195	39	88	100	6.6	4.00	6.0	41000	1.028	10463.7
10-Nov-16 14:00:00	Gas SG=0.640.											
10-Nov-16 14:00:00	36	-4.5	194	40	86	100	6.6	4.00	6.0	41000	1.025	10464.3
10-Nov-16 14:15:00	36	-4.5	196	40	87	100	6.6	4.00	6.0	41000	1.028	10464.9
10-Nov-16 14:30:00	36	-3.1	189	38	87	100	6.6	4.00	6.0	41000	1.028	10465.5
10-Nov-16 14:45:00	36	-1.5	191	39	87	100	6.6	4.00	6.0	41000	1.028	10466.0
10-Nov-16 15:00:00	36	-4.3	191	38	87	100	6.6	4.00	6.0	41000	1.024	10466.6
10-Nov-16 15:15:00	36	-4.0	193	38	86	100	6.6	4.00	6.0	41000	1.018	10467.2
10-Nov-16 15:30:00	36	-1.4	197	36	88	100	6.6	4.00	6.0	41000	1.025	10467.8
10-Nov-16 15:45:00	36	-1.4	190	36	87	100	6.6	4.00	6.0	41000	1.023	10468.3
10-Nov-16 16:00:00	36	-1.4	197	38	88	100	6.6	4.00	6.0	41000	1.029	10468.9
10-Nov-16 16:15:00	36	-1.4	196	38	88	100	6.6	4.00	6.0	41000	1.029	10469.5
10-Nov-16 16:30:00	36	-3.0	196	38	87	100	6.6	4.00	6.0	41000	1.029	10470.1
10-Nov-16 16:45:00	36	-3.7	189	38	88	100	6.6	4.00	6.0	41000	1.026	10470.6
10-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
10-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=63.32mS@28.6degC,Water Density=1013.9kg/m3@29.9DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-241.5mV2, Salinity=40000ppm.											
10-Nov-16 17:00:00	36	-2.4	195	37	88	100	6.6	4.00	6.0	40000	1.026	10471.2
10-Nov-16 17:15:00	36	-2.0	191	37	87	100	6.6	4.00	6.0	40000	1.027	10471.8
10-Nov-16 17:30:00	36	-2.3	192	36	87	100	6.6	4.00	6.0	40000	1.022	10472.4
10-Nov-16 17:45:00	36	-4.3	194	36	87	100	6.6	4.00	6.0	40000	1.025	10472.9
10-Nov-16 18:00:00	36	-4.3	193	35	87	100	6.6	4.00	6.0	40000	1.019	10473.5
10-Nov-16 18:15:00	36	-1.4	190	35	87	100	6.6	4.00	6.0	40000	1.019	10474.3
10-Nov-16 18:30:00	36	-1.2	190	34	87	100	6.6	4.00	6.0	40000	1.020	10475.1
10-Nov-16 18:45:00	36	1.0	186	32	86	100	6.6	4.00	6.0	40000	1.025	10475.9
10-Nov-16 19:00:00	36	1.8	190	32	87	100	6.6	4.00	6.0	40000	1.017	10476.7
10-Nov-16 19:15:00	36	1.8	189	32	87	100	6.6	4.00	6.0	40000	1.021	10477.4
10-Nov-16 19:30:00	36	1.9	189	31	87	100	6.6	4.00	6.0	40000	1.027	10478.1
10-Nov-16 19:45:00	36	1.8	190	31	87	100	6.6	4.00	6.0	40000	1.023	10478.8
10-Nov-16 20:00:00	Gas SG=0.642.											
10-Nov-16 20:00:00	36	1.8	186	31	86	100	6.6	4.00	6.0	40000	1.024	10479.5
10-Nov-16 20:15:00	36	1.8	188	31	86	100	6.6	4.00	6.0	40000	1.014	10480.2
10-Nov-16 20:30:00	36	1.8	192	31	87	100	6.6	4.00	6.0	40000	1.019	10480.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
10-Nov-16 20:40:00	DART computer crashed, needed to restart.											
10-Nov-16 20:45:00	36	1.6	192	31	87	100	6.6	4.00	6.0	40000	1.021	10481.6
10-Nov-16 21:00:00	36	1.6	191	32	87	100	6.6	4.00	6.0	40000	1.024	10482.3
10-Nov-16 21:05:00	DART computer restarted, acquisition resumed.											
10-Nov-16 21:15:00	36	1.6	192	31	87	100	6.6	4.00	6.0	40000	1.020	10482.9
10-Nov-16 21:30:00	36	1.6	192	31	86	100	6.6	4.00	6.0	40000	1.022	10483.6
10-Nov-16 21:45:00	36	1.6	183	31	86	100	6.6	4.00	6.0	40000	1.021	10484.3
10-Nov-16 22:00:00	36	1.8	194	31	85	100	6.6	4.00	6.0	40000	1.018	10485.0
10-Nov-16 22:15:00	36	2.2	193	31	86	100	6.6	4.00	6.0	40000	1.022	10485.5
10-Nov-16 22:30:00	36	3.0	188	31	87	100	6.6	4.00	6.0	40000	1.025	10485.9
10-Nov-16 22:45:00	36	1.6	189	31	87	100	6.6	4.00	6.0	40000	1.018	10486.4
10-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
10-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=56.31mS@21.7degC,Water Density=1015.5kg/m3@23.5DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-292.5mV2, Salinity=40000ppm.											
10-Nov-16 23:00:00	36	1.6	187	31	86	100	6.6	4.00	6.0	40000	1.016	10486.9
10-Nov-16 23:15:00	36	1.6	190	31	86	100	6.6	4.00	6.0	40000	1.023	10487.4
10-Nov-16 23:30:00	36	1.6	185	31	84	100	6.6	4.00	6.0	40000	1.019	10488.0
10-Nov-16 23:45:00	36	1.6	195	31	86	100	6.6	4.00	6.0	40000	1.014	10488.6
11-Nov-16 00:00:00	36	1.5	187	31	85	100	6.6	4.00	6.0	40000	1.028	10489.2
11-Nov-16 00:15:00	36	1.6	188	31	87	100	6.6	4.00	6.0	40000	1.023	10489.7
11-Nov-16 00:30:00	36	1.6	187	31	86	100	6.6	4.00	6.0	40000	1.027	10490.3
11-Nov-16 00:45:00	36	1.4	183	31	86	100	6.6	4.00	6.0	40000	1.023	10490.9
11-Nov-16 00:55:00	DART computer crashed, needed to restart.											
11-Nov-16 01:00:00	36	1.5	188	31	86	100	6.6	4.00	6.0	40000	1.019	10491.5
11-Nov-16 01:03:00	DART computer restarted, acquisition resumed.											
11-Nov-16 01:15:00	36	1.6	189	31	86	100	6.6	4.00	6.0	40000	1.018	10491.9
11-Nov-16 01:30:00	36	1.6	189	30	86	100	6.6	4.00	6.0	40000	1.020	10492.4
11-Nov-16 01:45:00	36	1.6	184	30	86	100	6.6	4.00	6.0	40000	1.019	10492.8
11-Nov-16 02:00:00	Gas SG=0.642.											
11-Nov-16 02:00:00	36	1.6	189	30	86	100	6.6	4.00	6.0	40000	1.018	10493.3
11-Nov-16 02:15:00	36	1.6	187	30	87	100	6.6	4.00	6.0	40000	1.025	10493.8
11-Nov-16 02:30:00	36	1.6	187	30	86	100	6.6	4.00	6.0	40000	1.022	10494.2
11-Nov-16 02:45:00	36	1.6	191	30	86	100	6.6	4.00	6.0	40000	1.024	10494.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
11-Nov-16 03:00:00	36	1.6	172	30	80	100	6.6	4.00	6.0	40000	0.972	10495.1
11-Nov-16 03:15:00	36	1.6	217	30	93	100	6.6	4.00	6.0	40000	0.996	10495.8
11-Nov-16 03:30:00	36	1.6	184	30	89	100	6.6	4.00	6.0	40000	1.099	10496.5
11-Nov-16 03:45:00	36	1.8	186	30	87	100	6.6	4.00	6.0	40000	1.030	10497.2
11-Nov-16 04:00:00	36	1.6	184	30	87	100	6.6	4.00	6.0	40000	1.037	10497.9
11-Nov-16 04:15:00	36	2.8	186	30	87	100	6.6	4.00	6.0	40000	1.021	10498.5
11-Nov-16 04:30:00	36	2.9	186	30	86	100	6.6	4.00	6.0	40000	1.030	10499.0
11-Nov-16 04:45:00	36	2.2	187	30	86	100	6.6	4.00	6.0	40000	1.021	10499.6
11-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
11-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.75mS@21.2degC,Water Density=1015.7kg/m3@23.2DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-189.1mV2, Salinity=40000ppm.											
11-Nov-16 05:00:00	36	4.6	184	30	86	100	6.5	4.00	6.0	40000	1.020	10500.2
11-Nov-16 05:15:00	36	4.6	185	30	86	100	6.5	4.00	6.0	40000	1.012	10500.8
11-Nov-16 05:30:00	36	4.5	185	30	87	100	6.5	4.00	6.0	40000	1.024	10501.3
11-Nov-16 05:45:00	36	4.6	183	30	86	100	6.5	4.00	6.0	40000	1.013	10501.9
11-Nov-16 06:00:00	36	4.6	192	30	89	100	6.5	4.00	6.0	40000	1.028	10502.5
11-Nov-16 06:15:00	36	4.5	182	30	86	100	6.5	4.00	6.0	40000	1.027	10503.1
11-Nov-16 06:30:00	36	4.3	189	30	87	100	6.5	4.00	6.0	40000	1.021	10503.6
11-Nov-16 06:45:00	36	2.0	188	30	86	100	6.5	4.00	6.0	40000	1.023	10504.2
11-Nov-16 07:00:00	36	1.4	187	31	87	100	6.5	4.00	6.0	40000	1.028	10504.8
11-Nov-16 07:15:00	36	1.4	190	32	86	100	6.5	4.00	6.0	40000	1.019	10505.4
11-Nov-16 07:30:00	36	1.4	185	32	86	100	6.5	4.00	6.0	40000	1.025	10505.9
11-Nov-16 07:45:00	36	1.4	190	33	86	100	6.5	4.00	6.0	40000	1.023	10506.5
11-Nov-16 08:00:00	Gas SG=0.640.											
11-Nov-16 08:00:00	Pumped 56.6 bbls from tank to pond.											
11-Nov-16 08:00:00	36	1.4	186	34	86	100	6.5	4.00	6.0	40000	1.024	10507.1
11-Nov-16 08:15:00	36	1.4	186	34	86	100	6.5	4.00	6.0	40000	1.014	10507.7
11-Nov-16 08:30:00	36	-1.5	192	34	87	100	6.5	4.00	6.0	40000	1.033	10508.2
11-Nov-16 08:45:00	36	-1.7	189	35	84	100	6.5	4.00	6.0	40000	1.020	10508.8
11-Nov-16 09:00:00	36	-1.7	192	35	86	100	6.5	4.00	6.0	40000	1.023	10509.4
11-Nov-16 09:15:00	36	-1.7	192	36	87	100	6.5	4.00	6.0	40000	1.023	10510.0
11-Nov-16 09:30:00	36	-1.7	191	36	86	100	6.5	4.00	6.0	40000	1.028	10510.5
11-Nov-16 09:45:00	36	-1.7	188	37	86	100	6.5	4.00	6.0	40000	1.025	10511.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
11-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=10512bbls, EC=67.14mS@31.2degC, pH=6.3.											
11-Nov-16 10:00:00	36	-1.7	188	37	86	100	6.5	4.00	6.0	40000	1.025	10511.7
11-Nov-16 10:15:00	36	-1.7	191	38	87	100	6.5	4.00	6.0	40000	1.025	10512.3
11-Nov-16 10:30:00	36	-1.7	194	38	87	100	6.5	4.00	6.0	40000	1.025	10512.8
11-Nov-16 10:45:00	36	-1.7	189	39	87	100	6.5	4.00	6.0	40000	1.028	10513.4
11-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.8mS@27.8degC,Water Density=1014kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-230.1mV2, Salinity=41000ppm.											
11-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
11-Nov-16 11:00:00	36	-1.7	190	39	87	100	6.6	4.00	6.0	41000	1.028	10514.0
11-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
11-Nov-16 11:15:00	36	-1.7	189	39	87	100	6.6	4.00	6.0	41000	1.027	10514.6
11-Nov-16 11:30:00	36	-4.4	191	40	87	100	6.6	4.00	6.0	41000	1.022	10515.1
11-Nov-16 11:45:00	36	-1.8	192	39	88	100	6.6	4.00	6.0	41000	1.025	10515.7
11-Nov-16 12:00:00	36	-2.7	192	39	87	100	6.6	4.00	6.0	41000	1.024	10516.3
11-Nov-16 12:15:00	36	-4.7	192	40	88	100	6.6	4.00	6.0	41000	1.026	10516.9
11-Nov-16 12:30:00	36	-4.7	188	40	86	100	6.6	4.00	6.0	41000	1.023	10517.4
11-Nov-16 12:45:00	36	-4.5	188	40	87	100	6.6	4.00	6.0	41000	1.020	10518.0
11-Nov-16 13:00:00	36	-4.7	183	41	87	100	6.6	4.00	6.0	41000	1.034	10518.6
11-Nov-16 13:15:00	36	-4.7	196	41	87	100	6.6	4.00	6.0	41000	1.022	10519.2
11-Nov-16 13:30:00	36	-4.5	187	39	89	100	6.6	4.00	6.0	41000	1.036	10519.7
11-Nov-16 13:45:00	36	-4.5	195	40	89	100	6.6	4.00	6.0	41000	1.023	10520.3
11-Nov-16 14:00:00	Took Isotube sample #38, 69.5psia @ 40deg C.											
11-Nov-16 14:00:00	Gas SG=0.640.											
11-Nov-16 14:00:00	36	-4.3	190	39	88	100	6.6	4.00	6.0	41000	1.022	10520.9
11-Nov-16 14:15:00	36	-4.5	192	40	89	100	6.6	4.00	6.0	41000	1.018	10521.5
11-Nov-16 14:30:00	36	-3.7	191	39	87	100	6.6	4.00	6.0	41000	1.018	10522.0
11-Nov-16 14:45:00	36	-3.5	200	38	90	100	6.6	4.00	6.0	41000	1.022	10522.6
11-Nov-16 15:00:00	36	-4.5	190	38	86	100	6.6	4.00	6.0	41000	1.025	10523.2
11-Nov-16 15:15:00	36	-4.5	193	37	89	100	6.6	4.00	6.0	41000	1.018	10523.8
11-Nov-16 15:30:00	36	-1.4	191	36	89	100	6.6	4.00	6.0	41000	1.030	10524.3
11-Nov-16 15:45:00	36	-2.8	191	38	87	100	6.6	4.00	6.0	41000	1.026	10524.9
11-Nov-16 16:00:00	36	-4.5	190	38	89	100	6.6	4.00	6.0	41000	1.026	10525.5
11-Nov-16 16:15:00	36	-4.5	190	39	87	100	6.6	4.00	6.0	41000	1.024	10526.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
11-Nov-16 16:30:00	36	-4.5	188	38	86	100	6.6	4.00	6.0	41000	1.015	10526.6
11-Nov-16 16:45:00	36	-4.5	206	38	88	100	6.6	4.00	6.0	41000	1.003	10527.2
11-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
11-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=66mS@31degC,Water Density=1013.1kg/m3@33DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-150mV2, Salinity=40000ppm.											
11-Nov-16 17:00:00	36	-4.5	185	38	90	100	6.6	4.00	6.0	40000	1.048	10527.8
11-Nov-16 17:15:00	36	-4.5	191	37	89	100	6.6	4.00	6.0	40000	1.020	10528.4
11-Nov-16 17:30:00	36	-4.5	189	36	90	100	6.6	4.00	6.0	40000	1.030	10528.9
11-Nov-16 17:45:00	36	-4.5	194	36	88	100	6.6	4.00	6.0	40000	1.022	10529.5
11-Nov-16 18:00:00	36	-1.8	191	35	89	100	6.6	4.00	6.0	40000	1.020	10530.1
11-Nov-16 18:15:00	36	-1.4	191	35	89	100	6.6	4.00	6.0	40000	1.019	10530.7
11-Nov-16 18:30:00	36	-1.4	190	34	89	100	6.6	4.00	6.0	40000	1.021	10531.2
11-Nov-16 18:45:00	36	-1.4	192	34	89	100	6.6	4.00	6.0	40000	1.012	10531.8
11-Nov-16 19:00:00	36	-1.4	189	34	89	100	6.6	4.00	6.0	40000	1.025	10532.4
11-Nov-16 19:15:00	36	-1.4	191	34	89	100	6.6	4.00	6.0	40000	1.022	10533.0
11-Nov-16 19:30:00	36	-1.4	188	33	89	100	6.6	4.00	6.0	40000	1.021	10533.5
11-Nov-16 19:45:00	36	-0.3	187	33	89	100	6.6	4.00	6.0	40000	1.022	10534.1
11-Nov-16 20:00:00	Gas SG=0.640.											
11-Nov-16 20:00:00	36	1.6	189	32	88	100	6.6	4.00	6.0	40000	1.018	10534.7
11-Nov-16 20:15:00	36	1.6	190	32	87	100	6.6	4.00	6.0	40000	1.017	10535.3
11-Nov-16 20:30:00	36	1.8	184	32	88	100	6.6	4.00	6.0	40000	1.018	10535.8
11-Nov-16 20:45:00	36	1.6	189	32	88	100	6.6	4.00	6.0	40000	1.017	10536.4
11-Nov-16 21:00:00	36	1.6	181	31	87	100	6.6	4.00	6.0	40000	1.015	10537.0
11-Nov-16 21:15:00	36	1.6	186	31	89	100	6.6	4.00	6.0	40000	1.015	9482.7
11-Nov-16 21:30:00	36	1.6	185	31	88	100	6.6	4.00	6.0	40000	1.022	8428.4
11-Nov-16 21:45:00	36	1.6	187	32	87	100	6.6	4.00	6.0	40000	1.016	7374.0
11-Nov-16 22:00:00	36	1.6	194	32	87	100	6.6	4.00	6.0	40000	1.018	6319.7
11-Nov-16 22:15:00	36	1.6	190	32	89	100	6.6	4.00	6.0	40000	1.018	7375.3
11-Nov-16 22:30:00	36	1.6	191	31	89	100	6.6	4.00	6.0	40000	1.026	8430.9
11-Nov-16 22:45:00	36	1.6	187	31	87	100	6.6	4.00	6.0	40000	1.020	9486.5
11-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
11-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.06mS@22.4degC,Water Density=1015.4kg/m3@24.3DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-127.7mV2, Salinity=40000ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
11-Nov-16 23:00:00	36	1.6	190	31	89	100	6.5	4.00	6.0	40000	1.021	10542.0
11-Nov-16 23:15:00	36	1.6	184	31	87	100	6.5	4.00	6.0	40000	1.021	10542.6
11-Nov-16 23:30:00	36	1.6	184	31	87	100	6.5	4.00	6.0	40000	1.018	10543.2
11-Nov-16 23:45:00	36	1.6	186	31	87	100	6.5	4.00	6.0	40000	1.017	10543.8
12-Nov-16 00:00:00	36	1.6	191	31	87	100	6.5	4.00	6.0	40000	1.016	10544.4
12-Nov-16 00:15:00	36	2.2	186	31	87	100	6.5	4.00	6.0	40000	1.016	10544.9
12-Nov-16 00:30:00	36	1.8	188	31	87	100	6.5	4.00	6.0	40000	1.014	10545.5
12-Nov-16 00:45:00	36	1.6	191	31	87	100	6.5	4.00	6.0	40000	1.018	10546.1
12-Nov-16 01:00:00	36	1.4	187	31	87	100	6.5	4.00	6.0	40000	1.016	10546.7
12-Nov-16 01:15:00	36	1.4	187	31	87	100	6.5	4.00	6.0	40000	1.014	10547.2
12-Nov-16 01:30:00	36	1.4	191	31	89	100	6.5	4.00	6.0	40000	1.021	10547.8
12-Nov-16 01:45:00	36	1.4	185	31	87	100	6.5	4.00	6.0	40000	1.018	10548.4
12-Nov-16 02:00:00	Gas SG=0.642											
12-Nov-16 02:00:00	36	1.4	192	31	87	100	6.5	4.00	6.0	40000	1.013	10549.0
12-Nov-16 02:15:00	36	1.6	187	31	89	100	6.5	4.00	6.0	40000	1.022	10549.5
12-Nov-16 02:30:00	36	1.6	188	31	87	100	6.5	4.00	6.0	40000	1.019	10550.1
12-Nov-16 02:45:00	36	1.4	184	31	87	100	6.5	4.00	6.0	40000	1.019	10550.7
12-Nov-16 03:00:00	36	1.6	189	31	87	100	6.5	4.00	6.0	40000	1.014	10551.3
12-Nov-16 03:15:00	36	1.6	183	31	87	100	6.5	4.00	6.0	40000	1.010	10551.8
12-Nov-16 03:30:00	36	1.6	193	31	89	100	6.5	4.00	6.0	40000	1.021	10552.4
12-Nov-16 03:45:00	36	1.6	183	31	86	100	6.5	4.00	6.0	40000	1.025	10553.0
12-Nov-16 04:00:00	36	1.6	197	31	87	100	6.5	4.00	6.0	40000	1.013	10553.5
12-Nov-16 04:15:00	36	1.6	186	31	86	100	6.5	4.00	6.0	40000	1.031	10554.1
12-Nov-16 04:30:00	36	1.6	191	31	87	100	6.5	4.00	6.0	40000	1.016	10554.7
12-Nov-16 04:45:00	36	1.6	181	31	87	100	6.5	4.00	6.0	40000	1.027	10555.3
12-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.644.											
12-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.58mS@22degC,Water Density=1015.1kg/m3@24DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-153.1mV2, Salinity=39000ppm.											
12-Nov-16 05:00:00	36	3.0	175	31	83	100	6.5	4.00	6.0	39000	0.990	10555.9
12-Nov-16 05:15:00	36	4.7	206	31	90	100	6.5	4.00	6.0	39000	1.002	10556.4
12-Nov-16 05:30:00	36	4.7	179	31	89	100	6.5	4.00	6.0	39000	1.065	10557.0
12-Nov-16 05:45:00	36	4.7	188	31	89	100	6.5	4.00	6.0	39000	1.016	10557.6
12-Nov-16 06:00:00	36	4.7	186	30	87	100	6.5	4.00	6.0	39000	1.029	10558.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
12-Nov-16 06:15:00	36	4.7	186	31	88	100	6.5	4.00	6.0	39000	1.021	10558.7
12-Nov-16 06:30:00	36	4.7	184	31	87	100	6.5	4.00	6.0	39000	1.025	10559.3
12-Nov-16 06:45:00	36	1.6	191	32	89	100	6.5	4.00	6.0	39000	1.018	10559.9
12-Nov-16 07:00:00	36	1.4	190	32	87	100	6.5	4.00	6.0	39000	1.020	10560.5
12-Nov-16 07:15:00	36	1.4	188	33	87	100	6.5	4.00	6.0	39000	1.023	10561.0
12-Nov-16 07:30:00	36	1.4	188	33	86	100	6.5	4.00	6.0	39000	1.022	10561.6
12-Nov-16 07:45:00	36	0.5	191	33	87	100	6.5	4.00	6.0	39000	1.013	10562.2
12-Nov-16 08:00:00	Gas SG=0.638. Pumped 55.7 bbls from tank to pond.											
12-Nov-16 08:00:00	36	-0.2	188	34	87	100	6.5	4.00	6.0	39000	1.018	10562.8
12-Nov-16 08:15:00	36	-1.7	193	34	87	100	6.5	4.00	6.0	39000	1.027	10563.3
12-Nov-16 08:30:00	36	-1.5	186	35	86	100	6.5	4.00	6.0	39000	1.030	10563.9
12-Nov-16 08:45:00	36	-1.7	188	35	87	100	6.5	4.00	6.0	39000	1.022	10564.5
12-Nov-16 09:00:00	36	-1.7	189	35	86	100	6.5	4.00	6.0	39000	1.033	10565.0
12-Nov-16 09:15:00	36	-1.7	191	36	87	100	6.5	4.00	6.0	39000	1.025	10565.6
12-Nov-16 09:30:00	36	-1.7	191	36	87	100	6.5	4.00	6.0	39000	1.028	10566.2
12-Nov-16 09:45:00	36	-1.7	196	37	87	100	6.5	4.00	6.0	39000	1.021	10566.8
12-Nov-16 10:00:00	36	-1.7	186	38	87	100	6.5	4.00	6.0	39000	1.033	10567.4
12-Nov-16 10:15:00	36	-1.7	190	38	87	100	6.5	4.00	6.0	39000	1.019	10567.9
12-Nov-16 10:30:00	36	-1.7	191	38	87	100	6.5	4.00	6.0	39000	1.025	10568.5
12-Nov-16 10:45:00	36	-2.0	193	39	89	100	6.5	4.00	6.0	39000	1.025	10569.1
12-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
12-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=65.03mS@29.3degC,Water Density=1013.3kg/m3@31DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-192.7mV2, Salinity=40000ppm.											
12-Nov-16 11:00:00	36	-1.7	186	39	87	100	6.3	4.00	6.0	40000	1.023	10569.7
12-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
12-Nov-16 11:15:00	36	-1.7	194	39	87	100	6.3	4.00	6.0	40000	1.019	10570.2
12-Nov-16 11:30:00	36	-4.7	196	39	89	100	6.3	4.00	6.0	40000	1.028	10570.8
12-Nov-16 11:45:00	36	-1.7	190	38	89	100	6.3	4.00	6.0	40000	1.024	10571.4
12-Nov-16 12:00:00	36	-1.6	192	39	89	100	6.3	4.00	6.0	40000	1.026	10572.0
12-Nov-16 12:15:00	36	-1.7	191	39	87	100	6.3	4.00	6.0	40000	1.020	10572.5
12-Nov-16 12:30:00	36	-1.5	187	39	89	100	6.3	4.00	6.0	40000	1.030	10573.1
12-Nov-16 12:45:00	36	-2.5	191	39	89	100	6.3	4.00	6.0	40000	1.020	10573.7
12-Nov-16 13:00:00	36	-2.9	187	39	87	100	6.3	4.00	6.0	40000	1.022	10574.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
12-Nov-16 13:15:00	36	-3.5	196	38	88	100	6.3	4.00	6.0	40000	1.018	10574.8
12-Nov-16 13:30:00	36	-4.5	193	40	87	100	6.3	4.00	6.0	40000	1.027	10575.4
12-Nov-16 13:45:00	36	-4.5	193	41	87	100	6.3	4.00	6.0	40000	1.021	10576.0
12-Nov-16 14:00:00	Gas SG=0.640.											
12-Nov-16 14:00:00	36	-4.5	194	39	89	100	6.3	4.00	6.0	40000	1.029	10576.5
12-Nov-16 14:15:00	36	-4.5	190	40	89	100	6.3	4.00	6.0	40000	1.027	10577.1
12-Nov-16 14:30:00	36	-4.5	193	41	89	100	6.3	4.00	6.0	40000	1.024	10577.7
12-Nov-16 14:45:00	36	-4.5	190	41	89	100	6.3	4.00	6.0	40000	1.027	10578.3
12-Nov-16 15:00:00	36	-4.5	189	40	89	100	6.3	4.00	6.0	40000	1.019	10578.9
12-Nov-16 15:15:00	36	-4.5	188	39	89	100	6.3	4.00	6.0	40000	1.025	10579.4
12-Nov-16 15:30:00	36	-4.3	193	38	89	100	6.3	4.00	6.0	40000	1.017	10580.0
12-Nov-16 15:45:00	36	-1.6	194	37	90	100	6.3	4.00	6.0	40000	1.023	10580.6
12-Nov-16 16:00:00	36	-1.7	189	37	89	100	6.3	4.00	6.0	40000	1.024	10581.2
12-Nov-16 16:15:00	36	-4.3	191	38	89	100	6.3	4.00	6.0	40000	1.020	10581.7
12-Nov-16 16:30:00	36	-4.3	188	37	89	100	6.3	4.00	6.0	40000	1.026	10582.3
12-Nov-16 16:45:00	36	-3.3	190	36	89	100	6.3	4.00	6.0	40000	1.016	10582.9
12-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=3.5%, Gas SG=0.638.											
12-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=60.54mS@26.1degC,Water Density=1014.5kg/m3@28.2DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-201.2mV2, Salinity=40000ppm.											
12-Nov-16 17:00:00	36	-1.2	189	31	90	100	6.3	3.50	6.0	40000	1.023	10583.5
12-Nov-16 17:15:00	36	-1.1	189	33	89	100	6.3	3.50	6.0	40000	1.025	10584.0
12-Nov-16 17:30:00	36	-1.2	189	34	89	100	6.3	3.50	6.0	40000	1.017	10584.6
12-Nov-16 17:45:00	36	-1.4	187	34	89	100	6.3	3.50	6.0	40000	1.020	10585.2
12-Nov-16 18:00:00	36	-1.4	191	34	89	100	6.3	3.50	6.0	40000	1.019	10585.8
12-Nov-16 18:15:00	36	-1.2	188	33	90	100	6.3	3.50	6.0	40000	1.020	10586.3
12-Nov-16 18:30:00	36	-1.2	190	33	89	100	6.3	3.50	6.0	40000	1.018	10586.9
12-Nov-16 18:45:00	36	0.3	189	33	90	100	6.3	3.50	6.0	40000	1.018	10587.5
12-Nov-16 19:00:00	36	1.8	185	32	89	100	6.3	3.50	6.0	40000	1.022	10588.1
12-Nov-16 19:15:00	36	1.8	189	32	89	100	6.3	3.50	6.0	40000	1.018	10588.6
12-Nov-16 19:30:00	36	1.6	186	32	89	100	6.3	3.50	6.0	40000	1.020	10589.2
12-Nov-16 19:45:00	36	1.6	190	32	90	100	6.3	3.50	6.0	40000	1.022	10589.8
12-Nov-16 20:00:00	Gas SG=0.640.											
12-Nov-16 20:00:00	36	1.6	186	32	89	100	6.3	3.50	6.0	40000	1.023	10590.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
12-Nov-16 20:15:00	36	1.6	184	32	89	100	6.3	3.50	6.0	40000	1.015	10590.9
12-Nov-16 20:30:00	36	1.6	188	32	90	100	6.3	3.50	6.0	40000	1.029	10591.5
12-Nov-16 20:45:00	36	1.6	186	32	87	100	6.3	3.50	6.0	40000	1.020	10592.1
12-Nov-16 21:00:00	36	1.6	189	32	89	100	6.3	3.50	6.0	40000	1.022	10592.7
12-Nov-16 21:15:00	36	1.6	191	32	89	100	6.3	3.50	6.0	40000	1.020	10593.2
12-Nov-16 21:30:00	36	1.6	184	32	89	100	6.3	3.50	6.0	40000	1.022	10593.8
12-Nov-16 21:45:00	36	1.6	186	32	89	100	6.3	3.50	6.0	40000	1.020	10594.4
12-Nov-16 22:00:00	36	1.6	192	32	89	100	6.3	3.50	6.0	40000	1.020	10595.0
12-Nov-16 22:15:00	36	1.6	187	31	89	100	6.3	3.50	6.0	40000	1.020	10595.5
12-Nov-16 22:30:00	36	1.6	187	31	89	100	6.3	3.50	6.0	40000	1.022	10596.1
12-Nov-16 22:45:00	36	1.6	187	31	87	100	6.3	3.50	6.0	40000	1.022	10596.7
12-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
12-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.45mS@23.7degC,Water Density=1014.4kg/m3@25.5DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-213.5mV2, Salinity=39000ppm.											
12-Nov-16 23:00:00	36	1.6	187	31	89	100	6.5	4.00	6.0	39000	1.022	10597.3
12-Nov-16 23:15:00	36	1.6	186	32	87	100	6.5	4.00	6.0	39000	1.021	10597.8
12-Nov-16 23:30:00	36	1.6	184	31	89	100	6.5	4.00	6.0	39000	1.020	10598.4
12-Nov-16 23:45:00	36	1.6	189	31	89	100	6.5	4.00	6.0	39000	1.018	10599.0
13-Nov-16 00:00:00	36	1.6	189	31	89	100	6.5	4.00	6.0	39000	1.020	10599.5
13-Nov-16 00:15:00	36	1.6	187	31	89	100	6.5	4.00	6.0	39000	1.020	10600.1
13-Nov-16 00:30:00	36	1.6	185	31	89	100	6.5	4.00	6.0	39000	1.026	10600.7
13-Nov-16 00:45:00	36	1.6	188	31	89	100	6.5	4.00	6.0	39000	1.015	10601.3
13-Nov-16 01:00:00	36	1.6	184	31	89	100	6.5	4.00	6.0	39000	1.023	10601.9
13-Nov-16 01:15:00	36	1.6	187	31	88	100	6.5	4.00	6.0	39000	1.021	10602.4
13-Nov-16 01:30:00	36	1.6	190	31	87	100	6.5	4.00	6.0	39000	1.015	10603.0
13-Nov-16 01:45:00	36	1.6	186	31	89	100	6.5	4.00	6.0	39000	1.022	10603.6
13-Nov-16 02:00:00	Gas SG=0.642.											
13-Nov-16 02:00:00	36	1.6	185	31	89	100	6.5	4.00	6.0	39000	1.021	10604.2
13-Nov-16 02:15:00	36	1.6	191	31	89	100	6.5	4.00	6.0	39000	1.017	10604.6
13-Nov-16 02:30:00	36	1.6	183	31	88	100	6.5	4.00	6.0	39000	1.027	10605.1
13-Nov-16 02:45:00	36	1.6	191	31	89	100	6.5	4.00	6.0	39000	1.015	10605.5
13-Nov-16 03:00:00	36	1.6	184	31	87	100	6.5	4.00	6.0	39000	1.024	10606.0
13-Nov-16 03:15:00	36	1.6	185	30	87	100	6.5	4.00	6.0	39000	1.017	10606.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
13-Nov-16 03:30:00	36	1.6	183	30	89	100	6.5	4.00	6.0	39000	1.023	10606.9
13-Nov-16 03:45:00	36	1.6	187	30	88	100	6.5	4.00	6.0	39000	1.025	10607.4
13-Nov-16 04:00:00	36	1.6	182	30	87	100	6.5	4.00	6.0	39000	1.017	10607.8
13-Nov-16 04:15:00	36	1.6	190	30	89	100	6.5	4.00	6.0	39000	1.018	10608.4
13-Nov-16 04:30:00	36	1.6	186	31	89	100	6.5	4.00	6.0	39000	1.020	10609.0
13-Nov-16 04:45:00	36	1.6	189	31	89	100	6.5	4.00	6.0	39000	1.016	10609.6
13-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
13-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.88mS@20.9degC,Water Density=1016.1kg/m3@22.9DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-197.6mV2, Salinity=40000ppm.											
13-Nov-16 05:00:00	36	1.6	185	31	89	100	6.5	4.00	6.0	40000	1.019	10610.1
13-Nov-16 05:15:00	36	1.6	187	31	89	100	6.5	4.00	6.0	40000	1.015	10610.7
13-Nov-16 05:30:00	36	1.8	185	31	88	100	6.5	4.00	6.0	40000	1.018	10611.3
13-Nov-16 05:45:00	36	1.6	191	30	89	100	6.5	4.00	6.0	40000	1.015	10611.9
13-Nov-16 06:00:00	36	1.6	187	30	89	100	6.5	4.00	6.0	40000	1.026	10612.4
13-Nov-16 06:15:00	36	1.6	187	30	89	100	6.5	4.00	6.0	40000	1.017	10613.0
13-Nov-16 06:30:00	36	1.6	187	29	89	100	6.5	4.00	6.0	40000	1.018	10613.6
13-Nov-16 06:45:00	36	1.8	187	29	89	100	6.5	4.00	6.0	40000	1.019	10614.2
13-Nov-16 07:00:00	36	2.5	187	29	88	100	6.5	4.00	6.0	40000	1.017	10614.7
13-Nov-16 07:15:00	36	1.6	189	30	89	100	6.5	4.00	6.0	40000	1.016	10615.3
13-Nov-16 07:30:00	36	1.6	194	31	89	100	6.5	4.00	6.0	40000	1.018	10615.9
13-Nov-16 07:45:00	36	1.6	191	31	89	100	6.5	4.00	6.0	40000	1.023	10616.5
13-Nov-16 08:00:00	Gas SG=0.638.											
13-Nov-16 08:00:00	36	1.6	193	32	89	100	6.5	4.00	6.0	40000	1.025	10617.0
13-Nov-16 08:15:00	36	1.6	187	32	88	100	6.5	4.00	6.0	40000	1.025	10617.6
13-Nov-16 08:30:00	36	1.6	185	33	89	100	6.5	4.00	6.0	40000	1.030	10618.2
13-Nov-16 08:45:00	36	1.4	189	32	87	100	6.5	4.00	6.0	40000	1.022	10618.8
13-Nov-16 09:00:00	36	1.4	190	33	89	100	6.5	4.00	6.0	40000	1.025	10619.3
13-Nov-16 09:15:00	36	1.4	189	34	87	100	6.5	4.00	6.0	40000	1.023	10619.9
13-Nov-16 09:30:00	36	1.4	192	35	88	100	6.5	4.00	6.0	40000	1.022	10620.5
13-Nov-16 09:45:00	36	1.2	190	35	89	100	6.5	4.00	6.0	40000	1.022	10621.1
13-Nov-16 10:00:00	Pumped 58.9 bbls from tank to pond.											
13-Nov-16 10:00:00	36	-1.5	190	35	89	100	6.5	4.00	6.0	40000	1.030	10621.6
13-Nov-16 10:15:00	36	-0.2	188	36	88	100	6.5	4.00	6.0	40000	1.017	10622.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
13-Nov-16 10:30:00	36	-1.5	196	36	90	100	6.5	4.00	6.0	40000	1.033	10622.8
13-Nov-16 10:45:00	36	-1.5	191	37	89	100	6.5	4.00	6.0	40000	1.028	10623.4
13-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.											
13-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=64.23mS@28.4degC,Water Density=1013.7kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-188.2mV2, Salinity=40000ppm.											
13-Nov-16 11:00:00	36	-1.7	186	37	89	100	6.3	4.00	6.0	40000	1.020	10623.9
13-Nov-16 11:10:00	Flushed VX liquid port, observed no sand.											
13-Nov-16 11:15:00	36	-1.5	190	37	90	100	6.3	4.00	6.0	40000	1.034	10624.4
13-Nov-16 11:30:00	36	-1.5	192	38	89	100	6.3	4.00	6.0	40000	1.026	10624.9
13-Nov-16 11:45:00	36	-1.7	190	38	89	100	6.3	4.00	6.0	40000	1.028	10625.3
13-Nov-16 12:00:00	36	-1.5	190	38	89	100	6.3	4.00	6.0	40000	1.027	10625.8
13-Nov-16 12:15:00	36	-1.5	190	38	89	100	6.3	4.00	6.0	40000	1.022	10626.2
13-Nov-16 12:30:00	36	-1.7	193	38	89	100	6.3	4.00	6.0	40000	1.027	10626.7
13-Nov-16 12:45:00	36	-1.7	189	38	89	100	6.3	4.00	6.0	40000	1.026	10627.2
13-Nov-16 13:00:00	36	-1.5	188	38	89	100	6.3	4.00	6.0	40000	1.028	10627.6
13-Nov-16 13:15:00	36	-1.7	186	39	89	100	6.3	4.00	6.0	40000	1.026	10628.2
13-Nov-16 13:30:00	36	-1.7	187	39	89	100	6.3	4.00	6.0	40000	1.026	10628.8
13-Nov-16 13:45:00	36	-1.6	191	39	89	100	6.3	4.00	6.0	40000	1.030	10629.3
13-Nov-16 14:00:00	Gas SG=0.642.											
13-Nov-16 14:00:00	36	-1.5	188	39	90	100	6.3	4.00	6.0	40000	1.027	10629.9
13-Nov-16 14:15:00	36	-1.5	189	39	89	100	6.3	4.00	6.0	40000	1.019	10630.5
13-Nov-16 14:30:00	36	-3.1	191	38	90	100	6.3	4.00	6.0	40000	1.020	10631.1
13-Nov-16 14:45:00	36	-1.5	192	38	90	100	6.3	4.00	6.0	40000	1.019	10631.6
13-Nov-16 15:00:00	36	-1.5	194	38	90	100	6.3	4.00	6.0	40000	1.019	10632.2
13-Nov-16 15:15:00	36	-1.5	191	38	90	100	6.3	4.00	6.0	40000	1.024	10632.8
13-Nov-16 15:30:00	36	-1.9	192	39	89	100	6.3	4.00	6.0	40000	1.022	10633.4
13-Nov-16 15:45:00	36	-1.5	194	38	89	100	6.3	4.00	6.0	40000	1.021	10633.9
13-Nov-16 16:00:00	36	-2.1	191	38	90	100	6.3	4.00	6.0	40000	1.022	10634.5
13-Nov-16 16:15:00	36	-1.5	187	37	90	100	6.3	4.00	6.0	40000	1.025	10635.1
13-Nov-16 16:30:00	36	-1.5	190	37	90	100	6.3	4.00	6.0	40000	1.015	10635.7
13-Nov-16 16:45:00	36	-1.5	190	37	90	100	6.3	4.00	6.0	40000	1.025	10636.2
13-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=3.5%, Gas SG=0.638.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
13-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.17mS@26.8degC,Water Density=1014.5kg/m3@28.6DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-190mV2, Salinity=40000ppm.											
13-Nov-16 17:00:00	36	-1.5	180	36	86	100	6.3	3.50	6.0	40000	1.005	10636.8
13-Nov-16 17:15:00	36	-1.5	204	36	90	100	6.3	3.50	6.0	40000	0.969	10637.4
13-Nov-16 17:30:00	36	-1.5	199	35	93	100	6.3	3.50	6.0	40000	1.060	10638.0
13-Nov-16 17:45:00	36	-1.4	184	33	89	100	6.3	3.50	6.0	40000	1.048	10638.5
13-Nov-16 18:00:00	36	1.8	184	31	90	100	6.3	3.50	6.0	40000	1.028	10639.1
13-Nov-16 18:15:00	36	1.8	186	30	90	100	6.3	3.50	6.0	40000	1.025	10639.7
13-Nov-16 18:30:00	36	1.8	187	30	90	100	6.3	3.50	6.0	40000	1.032	10640.3
13-Nov-16 18:45:00	36	1.8	184	30	90	100	6.3	3.50	6.0	40000	1.026	10640.8
13-Nov-16 19:00:00	36	1.8	186	31	90	100	6.3	3.50	6.0	40000	1.027	10641.4
13-Nov-16 19:15:00	36	1.8	189	31	90	100	6.3	3.50	6.0	40000	1.023	10642.0
13-Nov-16 19:30:00	36	1.8	184	30	89	100	6.3	3.50	6.0	40000	1.023	10642.6
13-Nov-16 19:45:00	36	1.8	181	30	89	100	6.3	3.50	6.0	40000	1.024	10643.1
13-Nov-16 20:00:00	Gas SG=0.640.											
13-Nov-16 20:00:00	36	1.8	187	30	89	100	6.3	3.50	6.0	40000	1.021	10643.7
13-Nov-16 20:15:00	36	1.8	186	30	89	100	6.3	3.50	6.0	40000	1.023	10644.3
13-Nov-16 20:30:00	36	1.8	186	29	89	100	6.3	3.50	6.0	40000	1.016	10644.9
13-Nov-16 20:45:00	36	1.6	187	29	90	100	6.3	3.50	6.0	40000	1.023	10645.4
13-Nov-16 21:00:00	36	1.6	187	29	88	100	6.3	3.50	6.0	40000	1.019	10646.0
13-Nov-16 21:15:00	36	1.6	188	28	90	100	6.3	3.50	6.0	40000	1.021	10646.6
13-Nov-16 21:30:00	36	1.6	186	28	89	100	6.3	3.50	6.0	40000	1.022	10647.2
13-Nov-16 21:45:00	36	1.8	184	29	89	100	6.3	3.50	6.0	40000	1.017	10647.7
13-Nov-16 22:00:00	36	1.6	180	29	89	100	6.3	3.50	6.0	40000	1.021	10648.3
13-Nov-16 22:15:00	36	1.8	186	29	89	100	6.3	3.50	6.0	40000	1.018	10648.9
13-Nov-16 22:30:00	36	1.6	190	29	90	100	6.3	3.50	6.0	40000	1.024	10649.5
13-Nov-16 22:45:00	36	1.6	186	30	88	100	6.3	3.50	6.0	40000	1.025	10650.0
13-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
13-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.71mS@20.8degC,Water Density=1015.8kg/m3@22.8DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-217.3mV2, Salinity=40000ppm.											
13-Nov-16 23:00:00	36	1.8	183	30	89	100	6.3	4.00	6.0	40000	1.020	10650.6
13-Nov-16 23:15:00	36	1.6	183	30	89	100	6.3	4.00	6.0	40000	1.020	10651.2
13-Nov-16 23:30:00	36	1.6	187	30	89	100	6.3	4.00	6.0	40000	1.018	10651.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
13-Nov-16 23:45:00	36	1.6	181	30	89	100	6.3	4.00	6.0	40000	1.019	10652.3
14-Nov-16 00:00:00	36	2.8	187	30	89	100	6.3	4.00	6.0	40000	1.019	10652.9
14-Nov-16 00:15:00	36	3.0	183	30	88	100	6.3	4.00	6.0	40000	1.021	10653.5
14-Nov-16 00:30:00	36	4.6	183	30	89	100	6.3	4.00	6.0	40000	1.018	10654.1
14-Nov-16 00:45:00	36	4.6	186	30	89	100	6.3	4.00	6.0	40000	1.022	10654.6
14-Nov-16 01:00:00	36	4.7	184	30	89	100	6.3	4.00	6.0	40000	1.020	10655.2
14-Nov-16 01:15:00	36	4.7	185	30	89	100	6.3	4.00	6.0	40000	1.020	10655.8
14-Nov-16 01:30:00	36	1.9	182	28	89	100	6.3	4.00	6.0	40000	1.019	10656.4
14-Nov-16 01:45:00	36	4.7	186	25	89	100	6.3	4.00	6.0	40000	1.019	10656.9
14-Nov-16 02:00:00	Gas SG=0.642.											
14-Nov-16 02:00:00	36	4.7	183	25	89	100	6.3	4.00	6.0	40000	1.019	10657.5
14-Nov-16 02:15:00	36	4.7	184	27	89	100	6.3	4.00	6.0	40000	1.016	10658.0
14-Nov-16 02:30:00	36	4.7	183	27	89	100	6.3	4.00	6.0	40000	1.022	10658.4
14-Nov-16 02:45:00	36	4.7	184	27	87	100	6.3	4.00	6.0	40000	1.022	10658.9
14-Nov-16 03:00:00	36	4.7	183	28	89	100	6.3	4.00	6.0	40000	1.020	10659.4
14-Nov-16 03:15:00	36	4.7	185	28	87	100	6.3	4.00	6.0	40000	1.017	10659.8
14-Nov-16 03:30:00	36	4.7	184	29	89	100	6.3	4.00	6.0	40000	1.020	10660.3
14-Nov-16 03:45:00	36	4.7	184	29	89	100	6.3	4.00	6.0	40000	1.022	10660.7
14-Nov-16 04:00:00	36	4.7	186	29	90	100	6.3	4.00	6.0	40000	1.020	10661.2
14-Nov-16 04:15:00	36	4.7	185	29	89	100	6.3	4.00	6.0	40000	1.020	10661.7
14-Nov-16 04:30:00	36	4.7	182	29	89	100	6.3	4.00	6.0	40000	1.022	10662.1
14-Nov-16 04:45:00	36	4.7	187	29	89	100	6.3	4.00	6.0	40000	1.022	10662.6
14-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
14-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=53.94mS@20.8degC,Water Density=1015.4kg/m3@22.8DegC, Dissolved Oxygen=2.5%, Oxidation Reduction Potential=-215.6mV2, Salinity=39000ppm.											
14-Nov-16 05:00:00	36	4.7	185	29	89	100	6.3	4.00	6.0	39000	1.021	10663.0
14-Nov-16 05:15:00	36	4.5	184	29	89	100	6.3	4.00	6.0	39000	1.016	10663.6
14-Nov-16 05:30:00	36	4.5	185	30	90	100	6.3	4.00	6.0	39000	1.022	10664.2
14-Nov-16 05:45:00	36	4.6	187	30	89	100	6.3	4.00	6.0	39000	1.021	10664.8
14-Nov-16 06:00:00	36	4.7	185	30	88	100	6.3	4.00	6.0	39000	1.016	10665.3
14-Nov-16 06:15:00	36	4.5	183	30	89	100	6.3	4.00	6.0	39000	1.023	10665.9
14-Nov-16 06:30:00	36	4.7	185	30	90	100	6.3	4.00	6.0	39000	1.025	10666.5
14-Nov-16 06:45:00	36	4.7	187	30	89	100	6.3	4.00	6.0	39000	1.021	10667.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
14-Nov-16 07:00:00	36	4.5	186	30	89	100	6.3	4.00	6.0	39000	1.022	10667.6
14-Nov-16 07:15:00	36	4.5	184	30	89	100	6.3	4.00	6.0	39000	1.018	10668.2
14-Nov-16 07:30:00	36	4.5	182	30	89	100	6.3	4.00	6.0	39000	1.022	10668.8
14-Nov-16 07:45:00	36	4.5	182	30	89	100	6.3	4.00	6.0	39000	1.016	10669.4
14-Nov-16 08:00:00	Gas SG=0.638.											
14-Nov-16 08:00:00	36	4.5	182	30	89	100	6.3	4.00	6.0	39000	1.019	10669.9
14-Nov-16 08:15:00	36	2.3	184	30	89	100	6.3	4.00	6.0	39000	1.020	10670.5
14-Nov-16 08:30:00	36	1.6	184	30	89	100	6.3	4.00	6.0	39000	1.020	10671.1
14-Nov-16 08:45:00	36	1.4	189	31	89	100	6.3	4.00	6.0	39000	1.020	10671.7
14-Nov-16 09:00:00	36	1.4	186	31	90	100	6.3	4.00	6.0	39000	1.030	10672.2
14-Nov-16 09:15:00	36	1.4	188	31	89	100	6.3	4.00	6.0	39000	1.022	10672.8
14-Nov-16 09:30:00	36	1.4	187	31	89	100	6.3	4.00	6.0	39000	1.021	10673.4
14-Nov-16 09:45:00	36	1.4	184	32	88	100	6.3	4.00	6.0	39000	1.022	10674.0
14-Nov-16 10:00:00	36	1.4	196	34	87	100	6.3	4.00	6.0	39000	1.010	10674.5
14-Nov-16 10:15:00	36	-0.3	181	35	90	100	6.3	4.00	6.0	39000	1.048	10675.1
14-Nov-16 10:30:00	36	-0.0	183	35	89	100	6.3	4.00	6.0	39000	1.019	10675.7
14-Nov-16 10:45:00	36	-1.7	189	36	90	100	6.3	4.00	6.0	39000	1.023	10676.3
14-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.											
14-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=59.95mS@25.1degC,Water Density=1014.3kg/m3@26.3DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-229.4mV2, Salinity=40000ppm.											
14-Nov-16 11:00:00	36	-1.7	190	36	89	100	6.3	4.00	6.0	40000	1.030	10676.8
14-Nov-16 11:10:00	Flushed VX liquid port, observed no sand.											
14-Nov-16 11:15:00	36	-1.5	189	35	90	100	6.3	4.00	6.0	40000	1.027	10677.4
14-Nov-16 11:30:00	36	-1.7	184	35	90	100	6.3	4.00	6.0	40000	1.024	10678.0
14-Nov-16 11:45:00	36	-1.7	190	36	89	100	6.3	4.00	6.0	40000	1.020	10678.6
14-Nov-16 12:00:00	36	-1.7	186	36	90	100	6.3	4.00	6.0	40000	1.031	10679.1
14-Nov-16 12:15:00	36	-1.7	187	36	89	100	6.3	4.00	6.0	40000	1.028	10679.7
14-Nov-16 12:30:00	36	-1.7	186	37	90	100	6.3	4.00	6.0	40000	1.028	10680.3
14-Nov-16 12:45:00	36	-1.7	187	36	90	100	6.3	4.00	6.0	40000	1.028	10680.9
14-Nov-16 13:00:00	Pumped 60.7 bbls from tank to pond.											
14-Nov-16 13:00:00	36	-1.5	191	36	89	100	6.3	4.00	6.0	40000	1.022	10681.4
14-Nov-16 13:15:00	36	-1.7	187	37	90	100	6.3	4.00	6.0	40000	1.017	10682.0
14-Nov-16 13:30:00	36	-1.7	195	36	92	100	6.3	4.00	6.0	40000	1.027	10682.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
14-Nov-16 13:45:00	36	-1.7	186	37	90	100	6.3	4.00	6.0	40000	1.026	10683.2
14-Nov-16 14:00:00	Gas SG=0.638.											
14-Nov-16 14:00:00	36	-1.7	196	37	92	100	6.3	4.00	6.0	40000	1.022	10683.7
14-Nov-16 14:15:00	36	-1.5	188	38	90	100	6.3	4.00	6.0	40000	1.032	10684.3
14-Nov-16 14:30:00	36	-1.5	191	38	92	100	6.3	4.00	6.0	40000	1.023	10684.9
14-Nov-16 14:45:00	36	-1.5	185	38	90	100	6.3	4.00	6.0	40000	1.025	10685.5
14-Nov-16 15:00:00	36	-1.5	191	36	92	100	6.3	4.00	6.0	40000	1.024	10686.0
14-Nov-16 15:15:00	36	-1.7	187	36	90	100	6.3	4.00	6.0	40000	1.027	10686.6
14-Nov-16 15:30:00	36	-1.7	187	36	90	100	6.3	4.00	6.0	40000	1.021	10687.2
14-Nov-16 15:45:00	36	-1.5	190	38	90	100	6.3	4.00	6.0	40000	1.021	10687.8
14-Nov-16 16:00:00	36	-1.9	186	36	90	100	6.3	4.00	6.0	40000	1.024	10688.3
14-Nov-16 16:15:00	36	-1.5	186	35	89	100	6.3	4.00	6.0	40000	1.016	10688.9
14-Nov-16 16:30:00	36	-1.9	192	36	89	100	6.3	4.00	6.0	40000	1.024	10689.5
14-Nov-16 16:45:00	36	-1.5	186	35	89	100	6.3	4.00	6.0	40000	1.022	10690.1
14-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.											
14-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=61.48mS@26degC,Water Density=1014.7kg/m3@27.3DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-184.5mV2, Salinity=40000ppm.											
14-Nov-16 17:00:00	36	-1.5	187	35	90	100	6.3	4.00	6.0	40000	1.022	10690.6
14-Nov-16 17:15:00	36	-1.5	189	35	90	100	6.3	4.00	6.0	40000	1.027	10691.2
14-Nov-16 17:30:00	36	-1.5	189	33	91	100	6.3	4.00	6.0	40000	1.024	10691.8
14-Nov-16 17:45:00	36	-1.5	188	33	91	100	6.3	4.00	6.0	40000	1.023	10692.4
14-Nov-16 18:00:00	36	-1.4	183	33	89	100	6.3	4.00	6.0	40000	1.017	10692.9
14-Nov-16 18:15:00	36	-1.4	188	33	90	100	6.3	4.00	6.0	40000	1.020	10693.4
14-Nov-16 18:30:00	36	-1.4	186	33	89	100	6.3	4.00	6.0	40000	1.018	10693.9
14-Nov-16 18:45:00	36	-1.4	187	32	90	100	6.3	4.00	6.0	40000	1.025	10694.3
14-Nov-16 19:00:00	36	-0.4	185	32	89	100	6.3	4.00	6.0	40000	1.024	10694.8
14-Nov-16 19:15:00	36	-1.0	187	32	90	100	6.3	4.00	6.0	40000	1.023	10695.2
14-Nov-16 19:30:00	36	1.6	184	31	89	100	6.3	4.00	6.0	40000	1.018	10695.7
14-Nov-16 19:45:00	36	1.6	185	31	90	100	6.3	4.00	6.0	40000	1.021	10696.2
14-Nov-16 20:00:00	Gas SG=0.642.											
14-Nov-16 20:00:00	36	1.6	186	31	89	100	6.3	4.00	6.0	40000	1.019	10696.6
14-Nov-16 20:15:00	36	1.6	185	31	89	100	6.3	4.00	6.0	40000	1.018	10697.2
14-Nov-16 20:30:00	36	1.6	184	31	89	100	6.3	4.00	6.0	40000	1.016	10697.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
14-Nov-16 20:45:00	36	1.6	187	31	90	100	6.3	4.00	6.0	40000	1.020	10698.3
14-Nov-16 21:00:00	36	1.6	188	31	90	100	6.3	4.00	6.0	40000	1.016	10698.9
14-Nov-16 21:15:00	36	1.6	188	31	90	100	6.3	4.00	6.0	40000	1.023	10699.5
14-Nov-16 21:30:00	36	1.6	183	31	89	100	6.3	4.00	6.0	40000	1.019	10700.1
14-Nov-16 21:45:00	36	1.6	185	31	89	100	6.3	4.00	6.0	40000	1.015	10700.6
14-Nov-16 22:00:00	36	1.6	183	30	89	100	6.3	4.00	6.0	40000	1.015	10701.2
14-Nov-16 22:15:00	36	1.6	187	30	90	100	6.3	4.00	6.0	40000	1.020	10701.7
14-Nov-16 22:30:00	36	1.8	183	30	90	100	6.3	4.00	6.0	40000	1.023	10702.1
14-Nov-16 22:45:00	36	1.8	183	30	89	100	6.3	4.00	6.0	40000	1.015	10702.6
14-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
14-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.91mS@20.8degC,Water Density=1015.8kg/m3@22.8DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-241.2mV2, Salinity=40000ppm.											
14-Nov-16 23:00:00	36	1.6	185	30	90	100	6.3	4.00	6.0	40000	1.014	10703.0
14-Nov-16 23:15:00	36	1.8	185	30	90	100	6.3	4.00	6.0	40000	1.019	10703.6
14-Nov-16 23:30:00	36	3.0	184	30	89	100	6.3	4.00	6.0	40000	1.019	10704.2
14-Nov-16 23:45:00	36	2.1	183	30	90	100	6.3	4.00	6.0	40000	1.023	10704.8
15-Nov-16 00:00:00	36	4.7	185	29	90	100	6.3	4.00	6.0	40000	1.017	10705.4
15-Nov-16 00:15:00	36	4.7	186	29	90	100	6.3	4.00	6.0	40000	1.016	10705.9
15-Nov-16 00:30:00	36	4.7	188	29	90	100	6.3	4.00	6.0	40000	1.018	10706.5
15-Nov-16 00:45:00	36	4.5	185	29	89	100	6.3	4.00	6.0	40000	1.020	10707.1
15-Nov-16 01:00:00	36	4.3	184	29	89	100	6.3	4.00	6.0	40000	1.012	10707.7
15-Nov-16 01:15:00	36	4.7	185	29	89	100	6.3	4.00	6.0	40000	1.021	10708.2
15-Nov-16 01:30:00	36	4.7	183	29	89	100	6.3	4.00	6.0	40000	1.012	10708.8
15-Nov-16 01:45:00	36	4.7	180	29	89	100	6.3	4.00	6.0	40000	1.022	10709.4
15-Nov-16 02:00:00	Gas SG=0.642.											
15-Nov-16 02:00:00	36	4.7	189	29	90	100	6.3	4.00	6.0	40000	1.021	10710.0
15-Nov-16 02:15:00	36	4.7	183	29	88	100	6.3	4.00	6.0	40000	1.023	10710.5
15-Nov-16 02:30:00	36	4.6	183	29	90	100	6.3	4.00	6.0	40000	1.022	10711.1
15-Nov-16 02:45:00	36	4.7	185	29	88	100	6.3	4.00	6.0	40000	1.019	10711.7
15-Nov-16 03:00:00	36	4.7	186	29	89	100	6.3	4.00	6.0	40000	1.018	10712.3
15-Nov-16 03:15:00	36	4.7	183	29	88	100	6.3	4.00	6.0	40000	1.018	10712.8
15-Nov-16 03:30:00	36	4.5	182	28	88	100	6.3	4.00	6.0	40000	1.021	10713.4
15-Nov-16 03:45:00	36	4.5	183	28	88	100	6.3	4.00	6.0	40000	1.017	10714.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
15-Nov-16 04:00:00	36	4.5	181	29	89	100	6.3	4.00	6.0	40000	1.020	10714.5
15-Nov-16 04:15:00	36	4.7	184	29	89	100	6.3	4.00	6.0	40000	1.020	10715.0
15-Nov-16 04:30:00	36	4.7	184	28	90	100	6.3	4.00	6.0	40000	1.018	10715.5
15-Nov-16 04:45:00	36	4.7	184	28	90	100	6.3	4.00	6.0	40000	1.022	10715.9
15-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
15-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=52.55mS@19.6degC,Water Density=1015.4kg/m3@21.6DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-242.4mV2, Salinity=39000ppm.											
15-Nov-16 05:00:00	36	4.7	182	28	90	100	6.3	4.00	6.0	39000	1.021	10716.4
15-Nov-16 05:15:00	36	4.7	184	28	90	100	6.3	4.00	6.0	39000	1.019	10716.9
15-Nov-16 05:30:00	36	4.7	183	28	90	100	6.3	4.00	6.0	39000	1.019	10717.3
15-Nov-16 05:45:00	36	4.7	183	28	90	100	6.3	4.00	6.0	39000	1.024	10717.8
15-Nov-16 06:00:00	36	7.4	186	28	90	100	6.3	4.00	6.0	39000	1.019	10718.2
15-Nov-16 06:15:00	36	7.2	182	28	90	100	6.3	4.00	6.0	39000	1.023	10718.8
15-Nov-16 06:30:00	36	4.5	185	28	90	100	6.3	4.00	6.0	39000	1.019	10719.4
15-Nov-16 06:45:00	36	4.5	185	29	90	100	6.3	4.00	6.0	39000	1.027	10720.0
15-Nov-16 07:00:00	36	4.5	184	29	89	100	6.3	4.00	6.0	39000	1.020	10720.5
15-Nov-16 07:15:00	36	4.3	183	29	90	100	6.3	4.00	6.0	39000	1.022	10721.1
15-Nov-16 07:30:00	36	4.3	184	30	90	100	6.3	4.00	6.0	39000	1.024	10721.7
15-Nov-16 07:45:00	36	1.4	181	30	89	100	6.3	4.00	6.0	39000	1.023	10722.3
15-Nov-16 08:00:00	Gas SG=0.642.											
15-Nov-16 08:00:00	36	1.2	185	31	90	100	6.3	4.00	6.0	39000	1.021	10722.8
15-Nov-16 08:15:00	SGS took Gas Samples from Separator Gas Outlet and Water Samples from Separator Oil Outlet.											
15-Nov-16 08:15:00	36	1.2	186	32	89	100	6.3	4.00	6.0	39000	1.016	10723.4
15-Nov-16 08:30:00	36	1.2	189	32	90	100	6.3	4.00	6.0	39000	1.022	10724.0
15-Nov-16 08:45:00	SGS completed taking samples.											
15-Nov-16 08:45:00	36	1.4	190	33	90	100	6.3	4.00	6.0	39000	1.024	10724.6
15-Nov-16 09:00:00	36	1.2	185	33	89	100	6.3	4.00	6.0	39000	1.021	10725.1
15-Nov-16 09:15:00	36	1.2	188	33	90	100	6.3	4.00	6.0	39000	0.996	10725.7
15-Nov-16 09:30:00	36	1.2	187	34	89	100	6.3	4.00	6.0	39000	1.019	10726.3
15-Nov-16 09:45:00	36	-0.6	189	35	92	100	6.3	4.00	6.0	39000	1.023	10726.9
15-Nov-16 10:00:00	36	-1.3	184	35	90	100	6.3	4.00	6.0	39000	1.026	10727.4
15-Nov-16 10:15:00	36	-0.5	188	35	90	100	6.3	4.00	6.0	39000	1.022	10727.9
15-Nov-16 10:30:00	36	-1.7	185	36	90	100	6.3	4.00	6.0	39000	1.021	10728.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
15-Nov-16 10:45:00	36	-1.5	191	36	90	100	6.3	4.00	6.0	39000	1.021	10728.8
15-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
15-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=63.04mS@27.1degC,Water Density=1014.1kg/m3@28.2DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-200.1mV2, Salinity=41000ppm.											
15-Nov-16 11:00:00	36	-1.7	189	36	92	100	6.4	4.00	6.0	41000	1.024	10729.3
15-Nov-16 11:10:00	Flushed VX liquid port, observed trace of sand.											
15-Nov-16 11:15:00	36	-1.7	186	37	90	100	6.4	4.00	6.0	41000	1.021	10729.6
15-Nov-16 11:30:00	36	-1.7	192	38	91	100	6.4	4.00	6.0	41000	1.021	10730.0
15-Nov-16 11:45:00	36	-1.7	191	38	90	100	6.4	4.00	6.0	41000	1.020	10730.3
15-Nov-16 12:00:00	36	-1.7	189	38	92	100	6.4	4.00	6.0	41000	1.026	10730.7
15-Nov-16 12:15:00	36	-1.7	188	38	90	100	6.4	4.00	6.0	41000	1.022	10731.1
15-Nov-16 12:30:00	36	-1.7	191	38	92	100	6.4	4.00	6.0	41000	1.023	10731.6
15-Nov-16 12:45:00	36	-1.6	188	38	92	100	6.4	4.00	6.0	41000	1.024	10732.0
15-Nov-16 13:00:00	36	-1.7	187	39	92	100	6.4	4.00	6.0	41000	1.007	10732.5
15-Nov-16 13:15:00	36	-1.7	196	38	95	100	6.4	4.00	6.0	41000	1.029	10733.1
15-Nov-16 13:30:00	36	-1.5	186	38	92	100	6.4	4.00	6.0	41000	1.030	10733.6
15-Nov-16 13:45:00	36	-1.7	187	39	93	100	6.4	4.00	6.0	41000	1.025	10734.2
15-Nov-16 14:00:00	Gas SG=0.640. Pumped 52 bbls from tank to pond.											
15-Nov-16 14:00:00	36	-1.5	184	39	93	100	6.4	4.00	6.0	41000	1.024	10734.8
15-Nov-16 14:15:00	36	-1.7	190	39	94	100	6.4	4.00	6.0	41000	1.018	10735.3
15-Nov-16 14:30:00	36	-1.7	189	39	95	100	6.4	4.00	6.0	41000	1.025	10735.7
15-Nov-16 14:45:00	36	-1.5	187	39	93	100	6.4	4.00	6.0	41000	1.021	10736.2
15-Nov-16 15:00:00	36	-1.7	188	38	93	100	6.4	4.00	6.0	41000	1.017	10736.6
15-Nov-16 15:15:00	36	-1.6	187	38	93	100	6.4	4.00	6.0	41000	1.021	10737.1
15-Nov-16 15:30:00	36	-1.6	186	38	93	100	6.4	4.00	6.0	41000	1.023	10737.5
15-Nov-16 15:45:00	36	-2.4	188	38	93	100	6.4	4.00	6.0	41000	1.017	10738.0
15-Nov-16 16:00:00	36	-1.7	188	37	93	100	6.4	4.00	6.0	41000	1.021	10738.5
15-Nov-16 16:15:00	36	-1.7	189	37	94	100	6.4	4.00	6.0	41000	1.022	10739.0
15-Nov-16 16:30:00	36	-1.5	188	36	93	100	6.4	4.00	6.0	41000	1.021	10739.6
15-Nov-16 16:45:00	36	-1.5	186	36	93	100	6.4	4.00	6.0	41000	1.019	10740.2
15-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
15-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=62.57mS@26.8degC,Water Density=1014.3kg/m3@27.7DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-206.4mV2, Salinity=41000ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
15-Nov-16 17:00:00	36	-1.5	190	36	93	100	6.4	4.00	6.0	41000	1.018	10740.8
15-Nov-16 17:15:00	36	-1.5	189	35	93	100	6.4	4.00	6.0	41000	1.023	10741.2
15-Nov-16 17:30:00	36	-1.5	193	34	93	100	6.4	4.00	6.0	41000	1.017	10741.7
15-Nov-16 17:45:00	36	-1.5	191	34	93	100	6.4	4.00	6.0	41000	1.021	10742.2
15-Nov-16 18:00:00	36	-1.4	183	33	93	100	6.4	4.00	6.0	41000	1.018	10742.6
15-Nov-16 18:15:00	36	-1.5	185	33	93	100	6.4	4.00	6.0	41000	1.018	10743.2
15-Nov-16 18:30:00	36	-1.1	183	32	93	100	6.4	4.00	6.0	41000	1.024	10743.8
15-Nov-16 18:45:00	36	1.6	186	32	93	100	6.4	4.00	6.0	41000	1.017	10744.3
15-Nov-16 19:00:00	36	1.6	186	32	93	100	6.4	4.00	6.0	41000	1.024	10744.9
15-Nov-16 19:15:00	36	1.6	188	31	92	100	6.4	4.00	6.0	41000	1.015	10745.5
15-Nov-16 19:30:00	36	1.8	186	31	92	100	6.4	4.00	6.0	41000	1.017	10746.1
15-Nov-16 19:45:00	36	1.7	185	31	93	100	6.4	4.00	6.0	41000	1.018	10746.6
15-Nov-16 20:00:00	Gas SG=0.642.											
15-Nov-16 20:00:00	36	1.8	186	31	92	100	6.4	4.00	6.0	41000	1.017	10747.2
15-Nov-16 20:15:00	36	1.8	184	30	92	100	6.4	4.00	6.0	41000	1.013	10747.8
15-Nov-16 20:30:00	36	1.8	188	30	93	100	6.4	4.00	6.0	41000	1.018	10748.4
15-Nov-16 20:45:00	36	4.2	184	30	92	100	6.4	4.00	6.0	41000	1.017	10748.9
15-Nov-16 21:00:00	36	4.7	186	30	92	100	6.4	4.00	6.0	41000	1.014	10749.5
15-Nov-16 21:15:00	36	2.3	186	30	93	100	6.4	4.00	6.0	41000	1.017	10750.0
15-Nov-16 21:30:00	36	1.8	189	30	92	100	6.4	4.00	6.0	41000	1.008	10750.4
15-Nov-16 21:45:00	36	1.6	181	30	92	100	6.4	4.00	6.0	41000	1.024	10750.9
15-Nov-16 22:00:00	36	1.6	178	29	90	100	6.4	4.00	6.0	41000	1.018	10751.4
15-Nov-16 22:15:00	36	1.6	184	29	90	100	6.4	4.00	6.0	41000	1.015	10751.9
15-Nov-16 22:30:00	36	1.6	181	29	90	100	6.4	4.00	6.0	41000	1.015	10752.5
15-Nov-16 22:45:00	36	2.9	186	29	91	100	6.4	4.00	6.0	41000	1.020	10753.1
15-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
15-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=53.48mS@19.4degC,Water Density=1016.1kg/m3@21.5DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-226.4mV2, Salinity=40000ppm.											
15-Nov-16 23:00:00	36	4.7	183	29	90	100	6.4	4.00	6.0	40000	1.014	10753.7
15-Nov-16 23:15:00	36	4.7	187	29	91	100	6.4	4.00	6.0	40000	1.015	10754.2
15-Nov-16 23:30:00	36	4.9	180	29	91	100	6.4	4.00	6.0	40000	1.017	10754.8
15-Nov-16 23:45:00	36	4.7	189	29	91	100	6.4	4.00	6.0	40000	1.018	10755.4
16-Nov-16 00:00:00	36	4.7	181	29	92	100	6.4	4.00	6.0	40000	1.026	10756.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
16-Nov-16 00:15:00	36	4.7	184	28	92	100	6.4	4.00	6.0	40000	1.017	10756.4
16-Nov-16 00:30:00	36	4.7	183	29	91	100	6.4	4.00	6.0	40000	1.019	10756.9
16-Nov-16 00:45:00	36	4.7	183	28	91	100	6.4	4.00	6.0	40000	1.015	10757.3
16-Nov-16 01:00:00	36	4.7	185	28	90	100	6.4	4.00	6.0	40000	1.017	10757.8
16-Nov-16 01:15:00	36	4.7	186	28	92	100	6.4	4.00	6.0	40000	1.019	10758.3
16-Nov-16 01:30:00	36	4.7	183	28	91	100	6.4	4.00	6.0	40000	1.017	10758.7
16-Nov-16 01:45:00	36	4.7	184	28	91	100	6.4	4.00	6.0	40000	1.019	10759.2
16-Nov-16 02:00:00	Gas SG=0.642.											
16-Nov-16 02:00:00	36	4.7	180	28	91	100	6.4	4.00	6.0	40000	1.025	10759.6
16-Nov-16 02:15:00	36	4.7	184	28	91	100	6.4	4.00	6.0	40000	1.012	10760.1
16-Nov-16 02:30:00	36	4.7	183	28	91	100	6.4	4.00	6.0	40000	1.021	10760.6
16-Nov-16 02:45:00	36	4.7	184	28	91	100	6.4	4.00	6.0	40000	1.016	10761.0
16-Nov-16 03:00:00	36	4.7	180	28	92	100	6.4	4.00	6.0	40000	1.023	10761.5
16-Nov-16 03:15:00	36	4.8	181	28	90	100	6.4	4.00	6.0	40000	1.016	10761.9
16-Nov-16 03:30:00	36	7.7	180	28	91	100	6.4	4.00	6.0	40000	1.020	10762.4
16-Nov-16 03:45:00	36	7.7	183	27	91	100	6.4	4.00	6.0	40000	1.022	10762.9
16-Nov-16 04:00:00	36	7.7	183	27	91	100	6.4	4.00	6.0	40000	1.015	10763.3
16-Nov-16 04:15:00	36	7.7	190	27	93	100	6.4	4.00	6.0	40000	1.020	10763.8
16-Nov-16 04:30:00	36	7.7	180	27	91	100	6.4	4.00	6.0	40000	1.031	10764.2
16-Nov-16 04:45:00	36	7.7	181	27	91	100	6.4	4.00	6.0	40000	1.028	10764.7
16-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
16-Nov-16 05:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=51.68mS@18degC,Water Density=1015.9kg/m3@20.1DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-249.8mV2, Salinity=40000ppm.											
16-Nov-16 05:00:00	36	7.7	179	26	91	100	6.4	4.00	6.0	40000	1.025	10765.2
16-Nov-16 05:15:00	36	7.7	185	27	91	100	6.4	4.00	6.0	40000	1.023	10765.6
16-Nov-16 05:30:00	36	7.7	182	27	91	100	6.4	4.00	6.0	40000	1.023	10766.1
16-Nov-16 05:45:00	36	7.7	183	27	93	100	6.4	4.00	6.0	40000	1.027	10766.5
16-Nov-16 06:00:00	36	7.7	178	27	91	100	6.4	4.00	6.0	40000	1.026	10767.0
16-Nov-16 06:15:00	36	7.7	183	27	91	100	6.4	4.00	6.0	40000	1.018	10767.6
16-Nov-16 06:30:00	36	7.5	177	27	91	100	6.4	4.00	6.0	40000	1.026	10768.1
16-Nov-16 06:45:00	36	7.3	188	28	91	100	6.4	4.00	6.0	40000	1.015	10768.7
16-Nov-16 07:00:00	36	4.3	185	29	91	100	6.4	4.00	6.0	40000	1.028	10769.3
16-Nov-16 07:15:00	36	4.1	187	30	92	100	6.4	4.00	6.0	40000	1.021	10770.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
16-Nov-16 07:30:00	36	4.3	187	31	92	100	6.4	4.00	6.0	40000	1.032	10770.7
16-Nov-16 07:45:00	36	2.1	189	31	92	100	6.4	4.00	6.0	40000	1.023	10771.4
16-Nov-16 08:00:00	Gas SG=0.640.											
16-Nov-16 08:00:00	36	1.2	184	32	92	100	6.4	4.00	6.0	40000	1.024	10772.0
16-Nov-16 08:15:00	36	1.2	188	33	92	100	6.4	4.00	6.0	40000	1.025	10772.5
16-Nov-16 08:30:00	36	1.2	188	33	92	100	6.4	4.00	6.0	40000	1.024	10773.0
16-Nov-16 08:45:00	36	1.2	191	34	92	100	6.4	4.00	6.0	40000	1.024	10773.4
16-Nov-16 09:00:00	36	-1.6	189	35	92	100	6.4	4.00	6.0	40000	1.026	10773.9
16-Nov-16 09:15:00	36	-1.6	188	35	92	100	6.4	4.00	6.0	40000	1.023	10774.3
16-Nov-16 09:30:00	36	-1.7	187	35	92	100	6.4	4.00	6.0	40000	1.027	10774.8
16-Nov-16 09:45:00	36	-1.7	184	36	92	100	6.4	4.00	6.0	40000	1.023	10775.3
16-Nov-16 10:00:00	36	-1.7	188	36	92	100	6.4	4.00	6.0	40000	1.018	10775.7
16-Nov-16 10:15:00	36	-1.7	186	37	92	100	6.4	4.00	6.0	40000	1.022	10776.2
16-Nov-16 10:30:00	36	-1.6	185	37	92	100	6.4	4.00	6.0	40000	1.030	10776.7
16-Nov-16 10:45:00	36	-1.5	186	37	93	100	6.4	4.00	6.0	40000	1.021	10777.1
16-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
16-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=65.88mS@28.7degC,Water Density=1014kg/m3@29.2DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-200.8mV2, Salinity=41000ppm.											
16-Nov-16 11:00:00	36	-1.7	190	38	93	100	6.4	4.00	6.0	41000	1.022	10777.6
16-Nov-16 11:10:00	Flushed VX liquid port, observed trace of sand.											
16-Nov-16 11:15:00	36	-1.7	185	38	92	100	6.4	4.00	6.0	41000	1.019	10778.1
16-Nov-16 11:30:00	36	-1.6	197	38	93	100	6.4	4.00	6.0	41000	1.020	10778.7
16-Nov-16 11:45:00	36	-1.5	186	39	93	100	6.4	4.00	6.0	41000	1.031	10779.3
16-Nov-16 12:00:00	36	-1.5	189	39	93	100	6.4	4.00	6.0	41000	1.016	10779.9
16-Nov-16 12:15:00	36	-1.5	186	39	93	100	6.4	4.00	6.0	41000	1.025	10780.3
16-Nov-16 12:30:00	36	-1.7	192	39	95	100	6.4	4.00	6.0	41000	1.022	10780.8
16-Nov-16 12:45:00	36	-2.6	188	39	95	100	6.4	4.00	6.0	41000	1.025	10781.3
16-Nov-16 13:00:00	36	-1.7	183	39	95	100	6.4	4.00	6.0	41000	1.020	10781.7
16-Nov-16 13:15:00	36	-1.5	189	39	95	100	6.4	4.00	6.0	41000	1.018	10782.2
16-Nov-16 13:30:00	36	-1.7	184	39	95	100	6.4	4.00	6.0	41000	1.025	10782.6
16-Nov-16 13:45:00	36	-1.7	189	39	95	100	6.4	4.00	6.0	41000	1.016	10783.1
16-Nov-16 14:00:00	Gas SG=0.640.											
16-Nov-16 14:00:00	36	-1.7	193	39	96	100	6.4	4.00	6.0	41000	1.022	10783.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
16-Nov-16 14:15:00	36	-3.9	188	39	95	100	6.4	4.00	6.0	41000	1.020	10784.1
16-Nov-16 14:30:00	36	-4.5	192	39	97	100	6.4	4.00	6.0	41000	1.020	10784.7
16-Nov-16 14:45:00	36	-3.9	187	39	95	100	6.4	4.00	6.0	41000	1.022	10785.3
16-Nov-16 15:00:00	36	-4.6	188	39	97	100	6.4	4.00	6.0	41000	1.019	10785.9
16-Nov-16 15:15:00	36	-4.4	189	39	95	100	6.4	4.00	6.0	41000	1.020	10786.3
16-Nov-16 15:30:00	36	-4.3	190	39	95	100	6.4	4.00	6.0	41000	1.017	10786.8
16-Nov-16 15:45:00	36	-4.5	193	39	96	100	6.4	4.00	6.0	41000	1.020	10787.2
16-Nov-16 16:00:00	Pumped 53.8 bbls from tank to pond.											
16-Nov-16 16:00:00	36	-4.5	189	38	96	100	6.4	4.00	6.0	41000	1.026	10787.7
16-Nov-16 16:15:00	36	-4.5	188	38	95	100	6.4	4.00	6.0	41000	1.022	10788.2
16-Nov-16 16:30:00	36	-4.5	186	37	95	100	6.4	4.00	6.0	41000	1.021	10788.6
16-Nov-16 16:45:00	36	-4.5	185	37	95	100	6.4	4.00	6.0	41000	1.022	10789.1
16-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
16-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=67.24mS@30.5degC,Water Density=1013.4kg/m3@31DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-194.3mV2, Salinity=41000ppm.											
16-Nov-16 17:00:00	36	-4.5	188	37	95	100	6.4	4.00	6.0	41000	1.019	10789.5
16-Nov-16 17:05:00	Vx computer needed to be restarted due to force update from windows.											
16-Nov-16 17:15:00	36	-4.5	187	36	93	100	6.4	4.00	6.0	41000	1.023	10790.0
16-Nov-16 17:30:00	Vx computer back online and InterAct data resumed.											
16-Nov-16 17:30:00	36	-4.5	185	35	95	100	6.4	4.00	6.0	41000	1.016	10790.5
16-Nov-16 17:45:00	36	-4.5	156	34	81	100	6.4	4.00	6.0	41000	0.989	10790.9
16-Nov-16 18:00:00	36	-1.4	214	34	96	100	6.4	4.00	6.0	41000	0.903	10791.4
16-Nov-16 18:15:00	36	-1.4	200	34	101	100	6.4	4.00	6.0	41000	1.109	10791.9
16-Nov-16 18:30:00	36	-1.4	173	33	93	100	6.4	4.00	6.0	41000	1.070	10792.5
16-Nov-16 18:45:00	36	-1.4	183	33	96	100	6.4	4.00	6.0	41000	1.038	10793.1
16-Nov-16 19:00:00	36	-1.4	182	32	93	100	6.4	4.00	6.0	41000	1.033	10793.7
16-Nov-16 19:15:00	36	1.8	185	31	94	100	6.4	4.00	6.0	41000	1.022	10794.1
16-Nov-16 19:30:00	36	1.8	184	31	93	100	6.4	4.00	6.0	41000	1.030	10794.6
16-Nov-16 19:45:00	36	1.8	182	30	93	100	6.4	4.00	6.0	41000	1.023	10795.1
16-Nov-16 20:00:00	Gas SG=0.642.											
16-Nov-16 20:00:00	36	2.5	180	30	94	100	6.4	4.00	6.0	41000	1.026	10795.5
16-Nov-16 20:15:00	36	4.7	182	30	93	100	6.4	4.00	6.0	41000	1.019	10796.0
16-Nov-16 20:30:00	36	4.7	183	30	93	100	6.4	4.00	6.0	41000	1.017	10796.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
16-Nov-16 20:45:00	36	4.7	185	29	93	100	6.4	4.00	6.0	41000	1.017	10796.9
16-Nov-16 21:00:00	36	4.7	181	29	93	100	6.4	4.00	6.0	41000	1.019	10797.4
16-Nov-16 21:15:00	36	4.7	183	29	93	100	6.4	4.00	6.0	41000	1.017	10797.8
16-Nov-16 21:30:00	36	4.7	182	29	93	100	6.4	4.00	6.0	41000	1.017	10798.3
16-Nov-16 21:45:00	36	4.7	182	29	93	100	6.4	4.00	6.0	41000	1.016	10798.7
16-Nov-16 22:00:00	36	4.7	181	28	93	100	6.4	4.00	6.0	41000	1.015	10799.2
16-Nov-16 22:15:00	36	4.7	184	28	93	100	6.4	4.00	6.0	41000	1.014	10799.7
16-Nov-16 22:30:00	36	4.7	180	28	92	100	6.4	4.00	6.0	41000	1.021	10800.1
16-Nov-16 22:45:00	36	4.7	181	28	93	100	6.4	4.00	6.0	41000	1.013	10800.6
16-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
16-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=54.16mS@19.8degC,Water Density=1015.7kg/m3@21.7DegC, Dissolved Oxygen=2%, Oxidation Reduction Potential=-228.1mV2, Salinity=40000ppm.											
16-Nov-16 23:00:00	36	4.7	180	28	93	100	6.4	4.00	6.0	40000	1.017	10801.0
16-Nov-16 23:15:00	36	4.7	178	28	93	100	6.4	4.00	6.0	40000	1.015	10801.6
16-Nov-16 23:30:00	36	4.7	183	28	94	100	6.4	4.00	6.0	40000	1.019	10802.2
16-Nov-16 23:45:00	36	6.6	180	28	92	100	6.4	4.00	6.0	40000	1.020	10802.8
17-Nov-16 00:00:00	36	5.4	178	28	91	100	6.4	4.00	6.0	40000	1.013	10803.3
17-Nov-16 00:15:00	36	5.0	182	28	92	100	6.4	4.00	6.0	40000	1.018	10803.9
17-Nov-16 00:30:00	36	4.7	178	28	92	100	6.4	4.00	6.0	40000	1.021	10804.5
17-Nov-16 00:45:00	36	7.6	182	27	93	100	6.4	4.00	6.0	40000	1.018	10805.1
17-Nov-16 01:00:00	36	6.6	179	28	92	100	6.4	4.00	6.0	40000	1.022	10805.6
17-Nov-16 01:15:00	36	4.7	182	28	92	100	6.4	4.00	6.0	40000	1.011	10806.2
17-Nov-16 01:30:00	36	4.5	183	28	92	100	6.4	4.00	6.0	40000	1.020	10806.8
17-Nov-16 01:45:00	36	4.5	180	28	93	100	6.4	4.00	6.0	40000	1.022	10807.4
17-Nov-16 02:00:00	Gas SG=0.644.											
17-Nov-16 02:00:00	36	4.5	181	28	92	100	6.4	4.00	6.0	40000	1.017	10807.9
17-Nov-16 02:15:00	36	4.5	179	28	91	100	6.4	4.00	6.0	40000	1.021	10808.5
17-Nov-16 02:30:00	36	4.5	180	28	92	100	6.4	4.00	6.0	40000	1.018	10809.1
17-Nov-16 02:45:00	36	4.5	180	28	93	100	6.4	4.00	6.0	40000	1.017	10809.7
17-Nov-16 03:00:00	36	4.5	181	28	92	100	6.4	4.00	6.0	40000	1.014	10810.2
17-Nov-16 03:15:00	36	4.5	178	28	93	100	6.4	4.00	6.0	40000	1.017	10810.8
17-Nov-16 03:30:00	36	4.5	179	28	93	100	6.4	4.00	6.0	40000	1.016	10811.4
17-Nov-16 03:45:00	36	4.5	184	28	93	100	6.4	4.00	6.0	40000	1.014	10812.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
17-Nov-16 04:00:00	36	4.5	182	28	93	100	6.4	4.00	6.0	40000	1.019	10812.5
17-Nov-16 04:15:00	36	4.5	182	28	93	100	6.4	4.00	6.0	40000	1.015	10813.0
17-Nov-16 04:30:00	36	4.5	184	28	93	100	6.4	4.00	6.0	40000	1.015	10813.5
17-Nov-16 04:45:00	36	4.5	182	28	93	100	6.4	4.00	6.0	40000	1.015	10813.9
17-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.644.											
17-Nov-16 05:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=52.75mS@19.2degC,Water Density=1015.5kg/m3@21.1DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-224.6mV2, Salinity=40000ppm.											
17-Nov-16 05:00:00	36	4.7	179	28	93	100	6.4	4.00	6.0	40000	1.007	10814.4
17-Nov-16 05:15:00	36	4.7	179	28	93	100	6.4	4.00	6.0	40000	1.016	10814.9
17-Nov-16 05:30:00	36	4.6	180	27	93	100	6.4	4.00	6.0	40000	1.016	10815.5
17-Nov-16 05:45:00	36	4.6	181	27	92	100	6.4	4.00	6.0	40000	1.022	10816.1
17-Nov-16 06:00:00	36	4.5	183	27	93	100	6.4	4.00	6.0	40000	1.016	10816.7
17-Nov-16 06:15:00	36	4.5	182	28	93	100	6.4	4.00	6.0	40000	1.017	10817.2
17-Nov-16 06:30:00	36	4.5	184	28	93	100	6.4	4.00	6.0	40000	1.018	10817.8
17-Nov-16 06:45:00	36	4.5	184	28	93	100	6.4	4.00	6.0	40000	1.016	10818.4
17-Nov-16 07:00:00	36	4.5	184	29	93	100	6.4	4.00	6.0	40000	1.018	10819.0
17-Nov-16 07:15:00	36	4.3	183	30	93	100	6.4	4.00	6.0	40000	1.018	10819.4
17-Nov-16 07:30:00	36	2.1	186	30	93	100	6.4	4.00	6.0	40000	1.014	10819.9
17-Nov-16 07:45:00	36	1.3	184	31	93	100	6.4	4.00	6.0	40000	1.018	10820.4
17-Nov-16 08:00:00	Gas SG=0.638.											
17-Nov-16 08:00:00	36	1.3	184	31	93	100	6.4	4.00	6.0	40000	1.018	10820.8
17-Nov-16 08:15:00	36	1.2	184	32	93	100	6.4	4.00	6.0	40000	1.021	10821.4
17-Nov-16 08:30:00	36	1.2	182	33	92	100	6.4	4.00	6.0	40000	1.017	10822.0
17-Nov-16 08:45:00	36	1.4	185	34	93	100	6.4	4.00	6.0	40000	1.023	10822.5
17-Nov-16 09:00:00	36	-1.7	184	34	93	100	6.4	4.00	6.0	40000	1.023	10823.1
17-Nov-16 09:15:00	36	-1.7	185	35	93	100	6.4	4.00	6.0	40000	1.020	10823.6
17-Nov-16 09:30:00	36	-1.7	186	36	93	100	6.4	4.00	6.0	40000	1.022	10824.0
17-Nov-16 09:45:00	36	-1.7	185	36	93	100	6.4	4.00	6.0	40000	1.021	10824.5
17-Nov-16 10:00:00	Took ALS water sample from Separator oil line. EC=61.46@26.4degC, PH=6.1, 10825 bbls returned											
17-Nov-16 10:00:00	36	-1.7	184	37	94	100	6.4	4.00	6.0	40000	1.017	10825.0
17-Nov-16 10:15:00	36	-1.6	185	37	95	100	6.4	4.00	6.0	40000	1.020	10825.4
17-Nov-16 10:30:00	36	-1.7	191	37	95	100	6.4	4.00	6.0	40000	1.023	10825.9
17-Nov-16 10:45:00	36	-1.7	187	38	95	100	6.4	4.00	6.0	40000	1.023	10826.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
17-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=65.65mS@29degC,Water Density=1013.2kg/m3@30.6DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-207.6mV2, Salinity=41000ppm.											
17-Nov-16 11:00:00	Gas SG=0.638, CO2=4%, H2S=6ppm.											
17-Nov-16 11:00:00	36	-1.7	185	39	95	100	6.5	4.00	6.0	41000	1.024	10826.8
17-Nov-16 11:15:00	36	-1.7	186	38	95	100	6.5	4.00	6.0	41000	1.020	10827.1
17-Nov-16 11:30:00	36	-1.7	188	39	95	100	6.5	4.00	6.0	41000	1.017	10827.5
17-Nov-16 11:45:00	36	-4.7	190	39	95	100	6.5	4.00	6.0	41000	1.021	10827.8
17-Nov-16 12:00:00	36	-1.7	188	39	96	100	6.5	4.00	6.0	41000	1.021	10828.2
17-Nov-16 12:15:00	36	-4.0	188	39	96	100	6.5	4.00	6.0	41000	1.023	10828.7
17-Nov-16 12:30:00	36	-4.1	185	39	96	100	6.5	4.00	6.0	41000	1.019	10829.3
17-Nov-16 12:45:00	36	-4.6	186	39	96	100	6.5	4.00	6.0	41000	1.019	10829.9
17-Nov-16 13:00:00	36	-4.7	188	40	96	100	6.5	4.00	6.0	41000	1.021	10830.5
17-Nov-16 13:15:00	36	-4.5	186	40	95	100	6.5	4.00	6.0	41000	1.024	10831.0
17-Nov-16 13:30:00	36	-3.8	191	40	97	100	6.5	4.00	6.0	41000	1.018	10831.6
17-Nov-16 13:45:00	36	-3.6	186	40	96	100	6.5	4.00	6.0	41000	1.020	10832.2
17-Nov-16 14:00:00	Gas SG=0.640.											
17-Nov-16 14:00:00	36	-4.5	191	40	97	100	6.5	4.00	6.0	41000	1.017	10832.8
17-Nov-16 14:15:00	36	-4.3	188	40	97	100	6.5	4.00	6.0	41000	1.017	10833.1
17-Nov-16 14:30:00	36	-4.5	190	40	98	100	6.5	4.00	6.0	41000	1.013	10833.5
17-Nov-16 14:45:00	36	-4.5	188	40	96	100	6.5	4.00	6.0	41000	1.019	10833.8
17-Nov-16 15:00:00	36	-4.5	187	39	96	100	6.5	4.00	6.0	41000	1.016	10834.2
17-Nov-16 15:15:00	36	-4.4	186	39	97	100	6.5	4.00	6.0	41000	1.022	10834.8
17-Nov-16 15:30:00	36	-4.5	185	39	96	100	6.5	4.00	6.0	41000	1.020	10835.5
17-Nov-16 15:45:00	36	-4.5	186	39	98	100	6.5	4.00	6.0	41000	1.021	10836.2
17-Nov-16 16:00:00	36	-4.4	186	39	96	100	6.5	4.00	6.0	41000	1.019	10836.9
17-Nov-16 16:15:00	36	-4.5	187	38	97	100	6.5	4.00	6.0	41000	1.017	10837.4
17-Nov-16 16:30:00	36	-4.4	192	38	96	100	6.5	4.00	6.0	41000	1.019	10837.8
17-Nov-16 16:45:00	36	-4.5	184	38	96	100	6.5	4.00	6.0	41000	1.021	10838.3
17-Nov-16 17:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.640.											
17-Nov-16 17:00:00	36	-4.5	191	37	97	100	6.5	4.00	7.0	41000	1.016	10838.8
17-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=62.86mS@26.1degC,Water Density=1014.6kg/m3@28.2DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-197.6mV2, Salinity=41000ppm.											
17-Nov-16 17:00:02	Took ISO tube gas sample #39 from Separator gas line. 76 psia @ 39.3degC.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
17-Nov-16 17:10:00	Pumped 56.12 bbls from tank to pond.											
17-Nov-16 17:15:00	36	-4.3	186	36	96	100	6.5	4.00	7.0	41000	1.019	10839.3
17-Nov-16 17:30:00	36	-4.3	189	35	96	100	6.5	4.00	7.0	41000	1.013	10839.9
17-Nov-16 17:45:00	36	-3.3	185	35	96	100	6.5	4.00	7.0	41000	1.017	10840.5
17-Nov-16 18:00:00	36	-1.2	181	34	95	100	6.5	4.00	7.0	41000	0.989	10841.0
17-Nov-16 18:15:00	36	-1.2	195	34	99	100	6.5	4.00	7.0	41000	1.025	10841.5
17-Nov-16 18:30:00	36	-1.3	182	33	95	100	6.5	4.00	7.0	41000	1.030	10842.0
17-Nov-16 18:45:00	36	-1.4	184	33	96	100	6.5	4.00	7.0	41000	1.017	10842.4
17-Nov-16 19:00:00	36	-1.2	180	33	96	100	6.5	4.00	7.0	41000	1.015	10842.9
17-Nov-16 19:15:00	36	-1.3	179	32	96	100	6.5	4.00	7.0	41000	1.020	10843.4
17-Nov-16 19:30:00	36	0.7	185	32	95	100	6.5	4.00	7.0	41000	1.017	10843.8
17-Nov-16 19:45:00	36	1.6	183	32	95	100	6.5	4.00	7.0	41000	1.020	10844.3
17-Nov-16 20:00:00	Gas SG=0.642.											
17-Nov-16 20:00:00	36	1.8	184	32	95	100	6.5	4.00	7.0	41000	1.013	10844.7
17-Nov-16 20:15:00	36	1.8	187	31	96	100	6.5	4.00	7.0	41000	1.020	10845.2
17-Nov-16 20:30:00	36	1.8	186	31	95	100	6.5	4.00	7.0	41000	1.018	10845.7
17-Nov-16 20:45:00	36	1.7	183	31	96	100	6.5	4.00	7.0	41000	1.019	10846.1
17-Nov-16 21:00:00	36	1.8	182	31	95	100	6.5	4.00	7.0	41000	1.014	10846.6
17-Nov-16 21:15:00	36	1.8	182	31	96	100	6.5	4.00	7.0	41000	1.017	10847.1
17-Nov-16 21:30:00	36	1.8	186	31	96	100	6.5	4.00	7.0	41000	1.014	10847.7
17-Nov-16 21:45:00	36	1.8	183	31	95	100	6.5	4.00	7.0	41000	1.013	10848.3
17-Nov-16 22:00:00	36	1.8	188	31	95	100	6.5	4.00	7.0	41000	1.016	10848.9
17-Nov-16 22:15:00	36	1.8	183	31	94	100	6.5	4.00	7.0	41000	1.013	10849.3
17-Nov-16 22:30:00	36	1.6	181	30	95	100	6.5	4.00	7.0	41000	1.017	10849.8
17-Nov-16 22:45:00	36	1.6	175	30	93	100	6.5	4.00	7.0	41000	1.018	10850.3
17-Nov-16 23:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.642.											
17-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.90mS@22.3degC,Water Density=1014.2kg/m3@24.1DegC, Dissolved Oxygen=2.5%, Oxidation Reduction Potential=-223.2mV2, Salinity=40000ppm.											
17-Nov-16 23:00:00	36	1.6	179	30	95	100	6.5	4.00	7.0	40000	1.009	10850.7
17-Nov-16 23:15:00	36	1.8	177	30	95	100	6.5	4.00	7.0	40000	1.022	10851.2
17-Nov-16 23:30:00	36	1.8	179	30	95	100	6.5	4.00	7.0	40000	1.009	10851.6
17-Nov-16 23:45:00	36	1.6	187	30	94	100	6.5	4.00	7.0	40000	1.012	10852.1
18-Nov-16 00:00:00	36	1.8	190	30	93	100	6.5	4.00	7.0	40000	1.014	10852.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Nov-16 00:15:00	36	2.9	182	30	94	100	6.5	4.00	7.0	40000	1.029	10853.0
18-Nov-16 00:30:00	36	4.7	182	30	95	100	6.5	4.00	7.0	40000	1.014	10853.5
18-Nov-16 00:45:00	36	4.7	184	30	95	100	6.5	4.00	7.0	40000	1.015	10853.9
18-Nov-16 01:00:00	36	4.7	186	30	96	100	6.5	4.00	7.0	40000	1.025	10854.4
18-Nov-16 01:15:00	36	4.7	181	30	95	100	6.5	4.00	7.0	40000	1.020	10855.0
18-Nov-16 01:30:00	36	4.7	180	29	94	100	6.5	4.00	7.0	40000	1.019	10855.5
18-Nov-16 01:45:00	36	4.7	182	29	94	100	6.5	4.00	7.0	40000	1.017	10856.1
18-Nov-16 02:00:00	Gas SG=0.642.											
18-Nov-16 02:00:00	36	4.9	180	29	94	100	6.5	4.00	7.0	40000	1.021	10856.7
18-Nov-16 02:15:00	36	4.7	182	29	94	100	6.5	4.00	7.0	40000	1.018	10857.3
18-Nov-16 02:30:00	36	4.7	179	29	95	100	6.5	4.00	7.0	40000	1.019	10857.8
18-Nov-16 02:45:00	36	4.7	181	29	94	100	6.5	4.00	7.0	40000	1.018	10858.4
18-Nov-16 03:00:00	36	4.7	182	29	94	100	6.5	4.00	7.0	40000	1.015	10859.0
18-Nov-16 03:15:00	36	4.7	180	29	94	100	6.5	4.00	7.0	40000	1.019	10859.4
18-Nov-16 03:30:00	36	4.7	177	29	95	100	6.5	4.00	7.0	40000	1.018	10859.9
18-Nov-16 03:45:00	36	4.7	181	29	94	100	6.5	4.00	7.0	40000	1.013	10860.4
18-Nov-16 04:00:00	36	4.7	180	29	94	100	6.5	4.00	7.0	40000	1.018	10860.8
18-Nov-16 04:15:00	36	4.6	184	29	94	100	6.5	4.00	7.0	40000	1.015	10861.3
18-Nov-16 04:30:00	36	4.7	182	29	93	100	6.5	4.00	7.0	40000	1.021	10861.8
18-Nov-16 04:45:00	36	4.7	183	29	93	100	6.5	4.00	7.0	40000	1.016	10862.2
18-Nov-16 05:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.642.											
18-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.88mS@21degC,Water Density=1014.9kg/m3@22.9DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-230.5mV2, Salinity=40000ppm.											
18-Nov-16 05:00:00	36	4.7	185	29	94	100	6.5	4.00	7.0	40000	1.020	10862.7
18-Nov-16 05:15:00	36	4.7	184	28	93	100	6.5	4.00	7.0	40000	1.020	10863.1
18-Nov-16 05:30:00	36	4.7	181	28	94	100	6.5	4.00	7.0	40000	1.021	10863.6
18-Nov-16 05:45:00	36	4.7	181	28	93	100	6.5	4.00	7.0	40000	1.014	10864.1
18-Nov-16 06:00:00	36	4.7	185	29	95	100	6.5	4.00	7.0	40000	1.020	10864.5
18-Nov-16 06:15:00	36	4.7	180	29	93	100	6.5	4.00	7.0	40000	1.018	10865.1
18-Nov-16 06:30:00	36	4.7	182	29	95	100	6.5	4.00	7.0	40000	1.018	10865.7
18-Nov-16 06:45:00	36	4.7	182	30	93	100	6.5	4.00	7.0	40000	1.024	10866.2
18-Nov-16 07:00:00	36	4.5	186	30	95	100	6.5	4.00	7.0	40000	1.017	10866.8
18-Nov-16 07:15:00	36	2.0	182	31	93	100	6.5	4.00	7.0	40000	1.000	10867.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Nov-16 07:30:00	36	1.4	190	31	96	100	6.5	4.00	7.0	40000	1.027	10867.7
18-Nov-16 07:45:00	36	1.4	174	32	93	100	6.5	4.00	7.0	40000	1.031	10868.2
18-Nov-16 08:00:00	Gas SG=0.638.											
18-Nov-16 08:00:00	36	1.4	190	32	95	100	6.5	4.00	7.0	40000	1.016	10868.7
18-Nov-16 08:15:00	36	1.4	181	32	95	100	6.5	4.00	7.0	40000	1.032	10869.3
18-Nov-16 08:30:00	36	1.4	188	33	94	100	6.5	4.00	7.0	40000	1.020	10870.0
18-Nov-16 08:45:00	36	1.4	181	33	93	100	6.5	4.00	7.0	40000	1.029	10870.7
18-Nov-16 09:00:00	36	-0.4	182	34	94	100	6.5	4.00	7.0	40000	1.020	10871.4
18-Nov-16 09:15:00	36	-1.5	186	35	95	100	6.5	4.00	7.0	40000	1.019	10871.8
18-Nov-16 09:30:00	36	-1.5	186	35	95	100	6.5	4.00	7.0	40000	1.026	10872.1
18-Nov-16 09:45:00	36	-1.5	185	36	95	100	6.5	4.00	7.0	40000	1.021	10872.4
18-Nov-16 10:00:00	36	-1.5	184	36	95	100	6.5	4.00	7.0	40000	1.020	10872.8
18-Nov-16 10:15:00	36	-1.5	189	37	94	100	6.5	4.00	7.0	40000	1.010	10873.3
18-Nov-16 10:30:00	36	-1.6	188	37	96	100	6.5	4.00	7.0	40000	1.032	10873.7
18-Nov-16 10:45:00	36	-1.7	184	38	95	100	6.5	4.00	7.0	40000	1.023	10874.2
18-Nov-16 11:00:00	BSW=100% no solids, CO2=4%, H2S=6ppm, Gas SG=0.640.											
18-Nov-16 11:00:00	36	-1.5	190	38	95	100	6.5	4.00	6.0	41000	1.021	10874.6
18-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=65.8mS@28.9degC,Water Density=1012.7kg/m3@31DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-223.1mV2, Salinity=41000ppm.											
18-Nov-16 11:00:02	Drained VX liquid port, found trace of sand.											
18-Nov-16 11:15:00	36	-2.7	185	38	95	100	6.5	4.00	6.0	41000	1.019	10875.1
18-Nov-16 11:30:00	36	-1.5	187	39	95	100	6.5	4.00	6.0	41000	1.018	10875.5
18-Nov-16 11:45:00	36	-3.7	193	39	96	100	6.5	4.00	6.0	41000	1.020	10876.0
18-Nov-16 12:00:00	36	-2.4	184	39	96	100	6.5	4.00	6.0	41000	1.023	10876.5
18-Nov-16 12:15:00	36	-4.5	194	39	96	100	6.5	4.00	6.0	41000	1.016	10876.8
18-Nov-16 12:27:00	Discussed maintenance procedure with Cactus.											
18-Nov-16 12:30:00	36	-1.5	185	40	96	100	6.5	4.00	6.0	41000	1.026	10877.2
18-Nov-16 12:45:00	36	-3.6	188	39	96	100	6.5	4.00	6.0	41000	1.013	10877.5
18-Nov-16 13:00:00	Cactus started maintenance on anulus access valves.											
18-Nov-16 13:00:00	36	-1.5	192	39	98	100	6.5	4.00	6.0	41000	1.026	10877.9
18-Nov-16 13:15:00	36	-1.5	185	40	96	100	6.5	4.00	6.0	41000	1.024	10878.4
18-Nov-16 13:30:00	36	-1.5	188	41	96	100	6.5	4.00	6.0	41000	1.021	10879.0
18-Nov-16 13:45:00	36	-1.5	187	40	96	100	6.5	4.00	6.0	41000	1.022	10879.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Nov-16 14:00:00	36	-1.5	187	40	98	100	6.5	4.00	6.0	41000	1.021	10880.2
18-Nov-16 14:15:00	36	4.3	186	40	98	100	6.5	4.00	6.0	41000	1.016	10880.4
18-Nov-16 14:26:00	Lifted 1.75" Orifice plate.											
18-Nov-16 14:26:00	End of MP.											
18-Nov-16 14:28:00	Shut in well at choke manifold due to wellhead maintenance job.											
18-Nov-16 14:29:00	Closed oil outlet on Separator.											
18-Nov-16 14:30:00	Cactus started maintenance on tree, closed master valve.											
18-Nov-16 14:30:00	0	3.7	494	39	31	100	6.5	4.00	6.0	41000		10880.6
18-Nov-16 14:35:00	By-passed sand filter to prevent screens getting plugged with valve grease when well is re-opened.											
18-Nov-16 14:45:00	Pumped 36.34 bbls from tank to pond.											
18-Nov-16 14:45:00	0	4.5	603	39	31	100	6.5	4.00	6.0	41000		10880.8
18-Nov-16 15:00:00	0	4.5	605	39	31	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 15:15:00	0	4.6	607	40	31	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 15:30:00	0	4.5	608	41	32	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 15:45:00	0	4.5	609	41	31	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 16:00:00	Cactus finished tree maintenance.											
18-Nov-16 16:00:00	0	-4.3	609	41	32	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 16:08:00	Opened MV to closed Choke manifold.											
18-Nov-16 16:10:00	Pre-flow meeting.											
18-Nov-16 16:15:00	0	-4.5	927	41	32	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 16:30:00	Opened well on 10/64" adjustable choke through Separator to gas flare.											
18-Nov-16 16:30:00	10	-4.3	946	40	32	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 16:34:00	Increased to 12/64" adjustable choke.											
18-Nov-16 16:36:00	Increased to 16/64" adjustable choke.											
18-Nov-16 16:41:00	Increased to 20/64" adjustable choke.											
18-Nov-16 16:45:00	20	-4.5	775	41	92	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 16:48:00	Increased to 24/64" adjustable choke.											
18-Nov-16 16:54:00	Increased to 28/64" adjustable choke.											
18-Nov-16 17:00:00	WHP increasing, well slugging.											
18-Nov-16 17:00:00	28	-4.0	371	40	82	100	6.5	4.00	6.0	41000		10881.1
18-Nov-16 17:04:00	Increased to 32/64" adjustable choke.											
18-Nov-16 17:12:00	Increased to 36/64" adjustable choke.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Nov-16 17:13:00	Switched to 36/64" fixed choke.											
18-Nov-16 17:15:00	36	-1.4	322	36	98	100	6.5	4.00	6.0	41000		10881.8
18-Nov-16 17:30:00	36	-1.4	247	35	87	100	6.5	4.00	6.0	41000		10882.5
18-Nov-16 17:45:00	36	-1.4	255	34	85	100	6.5	4.00	6.0	41000		10883.1
18-Nov-16 18:00:00	BSW=100% no solids, CO2=4%, H2S=6ppm.											
18-Nov-16 18:00:00	36	-0.7	243	34	83	100	6.5	4.00	6.0	41000		10883.8
18-Nov-16 18:15:00	36	1.8	245	34	83	100	6.5	4.00	6.0	41000		10884.2
18-Nov-16 18:30:00	36	1.8	227	33	80	100	6.5	4.00	6.0	41000		10884.5
18-Nov-16 18:45:00	36	4.7	229	33	87	100	6.5	4.00	6.0	41000		10884.9
18-Nov-16 19:00:00	36	4.7	227	32	86	100	6.5	4.00	6.0	41000		10885.2
18-Nov-16 19:15:00	36	4.7	220	32	84	100	6.5	4.00	6.0	41000		10885.7
18-Nov-16 19:30:00	36	7.0	220	31	90	100	6.5	4.00	6.0	41000		10886.1
18-Nov-16 19:45:00	36	7.7	216	31	89	100	6.5	4.00	6.0	41000		10886.6
18-Nov-16 20:00:00	36	7.7	212	31	87	100	6.5	4.00	6.0	41000		10887.1
18-Nov-16 20:15:00	36	7.7	207	30	87	100	6.5	4.00	6.0	41000		10887.4
18-Nov-16 20:30:00	36	7.7	207	31	86	100	6.5	4.00	6.0	41000		10887.7
18-Nov-16 20:45:00	36	7.5	205	31	86	100	6.5	4.00	6.0	41000		10888.1
18-Nov-16 21:00:00	Passed flow through sand filter.											
18-Nov-16 21:00:00	36	7.5	203	31	84	100	6.5	4.00	6.0	41000		10888.4
18-Nov-16 21:15:00	36	7.5	200	31	87	100	6.5	4.00	6.0	41000		10888.8
18-Nov-16 21:30:00	36	7.5	199	31	86	100	6.5	4.00	6.0	41000		10889.1
18-Nov-16 21:45:00	36	7.5	198	30	86	100	6.5	4.00	6.0	41000		10889.5
18-Nov-16 22:00:00	36	7.5	202	30	84	100	6.5	4.00	6.0	41000		10889.8
18-Nov-16 22:15:00	36	7.5	202	30	85	100	6.5	4.00	6.0	41000		10890.3
18-Nov-16 22:30:00	36	7.5	195	30	85	100	6.5	4.00	6.0	41000		10890.7
18-Nov-16 22:45:00	36	7.5	197	30	84	100	6.5	4.00	6.0	41000		10891.2
18-Nov-16 22:57:00	MP on 36/64" Fixed Choke.											
18-Nov-16 22:57:00	Lowered 1.75" Orifice plate.											
18-Nov-16 23:00:00	BSW=100% no solids, CO2=4%, H2S=8ppm, Gas SG=0.644.											
18-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.36mS@23.2degC,Water Density=1013.1kg/m3@25.2DegC, Dissolved Oxygen=2.9%, Oxidation Reduction Potential=-243.5mV2, Salinity=38000ppm.											
18-Nov-16 23:00:00	36	7.5	198	30	90	100	6.5	4.00	8.0	38000		10891.7
18-Nov-16 23:15:00	36	7.5	194	30	90	100	6.5	4.00	8.0	38000	1.127	10892.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
18-Nov-16 23:30:00	36	7.5	196	30	90	100	6.5	4.00	8.0	38000	1.114	10892.8
18-Nov-16 23:45:00	36	7.5	194	30	90	100	6.5	4.00	8.0	38000	1.118	10893.4
19-Nov-16 00:00:00	36	8.1	197	29	89	100	6.5	4.00	8.0	38000	1.112	10894.0
19-Nov-16 00:15:00	36	7.5	192	29	90	100	6.5	4.00	8.0	38000	1.108	10894.4
19-Nov-16 00:30:00	36	9.5	194	29	90	100	6.5	4.00	8.0	38000	1.102	10894.9
19-Nov-16 00:45:00	36	10.6	197	29	89	100	6.5	4.00	8.0	38000	1.095	10895.3
19-Nov-16 01:00:00	36	10.5	194	29	89	100	6.5	4.00	8.0	38000	1.096	10895.8
19-Nov-16 01:15:00	36	10.4	195	29	89	100	6.5	4.00	8.0	38000	1.090	10896.3
19-Nov-16 01:30:00	36	10.6	192	29	89	100	6.5	4.00	8.0	38000	1.091	10896.7
19-Nov-16 01:45:00	36	10.6	197	29	89	100	6.5	4.00	8.0	38000	1.086	10897.2
19-Nov-16 02:00:00	Gas SG=0.642.											
19-Nov-16 02:00:00	36	10.6	191	29	89	100	6.5	4.00	8.0	38000	1.091	10897.6
19-Nov-16 02:15:00	36	10.5	190	29	88	100	6.5	4.00	8.0	38000	1.087	10898.1
19-Nov-16 02:30:00	36	10.5	192	29	89	100	6.5	4.00	8.0	38000	1.083	10898.5
19-Nov-16 02:45:00	36	10.6	192	29	88	100	6.5	4.00	8.0	38000	1.082	10899.0
19-Nov-16 03:00:00	36	10.6	186	29	87	100	6.5	4.00	8.0	38000	1.076	10899.5
19-Nov-16 03:15:00	36	10.6	192	29	89	100	6.5	4.00	8.0	38000	1.079	10899.9
19-Nov-16 03:30:00	36	10.6	190	29	87	100	6.5	4.00	8.0	38000	1.084	10900.4
19-Nov-16 03:45:00	36	10.6	190	28	88	100	6.5	4.00	8.0	38000	1.074	10900.9
19-Nov-16 04:00:00	36	10.6	184	28	87	100	6.5	4.00	8.0	38000	1.078	10901.3
19-Nov-16 04:15:00	36	10.6	192	28	87	100	6.5	4.00	8.0	38000	1.072	10901.7
19-Nov-16 04:30:00	36	10.6	187	29	87	100	6.5	4.00	8.0	38000	1.073	10902.0
19-Nov-16 04:45:00	36	10.6	192	29	87	100	6.5	4.00	8.0	38000	1.069	10902.3
19-Nov-16 05:00:00	BSW=100% no solids, CO2=4%, H2S=7ppm, Gas SG=0.642.											
19-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.11mS@20.9degC,Water Density=1014.8kg/m3@22.8DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-250.5mV2, Salinity=40000ppm.											
19-Nov-16 05:00:00	36	10.4	185	29	87	100	6.5	4.00	7.0	40000	1.074	10902.7
19-Nov-16 05:15:00	36	10.6	184	29	87	100	6.5	4.00	7.0	40000	1.070	10903.2
19-Nov-16 05:30:00	36	10.5	186	28	87	100	6.5	4.00	7.0	40000	1.067	10903.7
19-Nov-16 05:45:00	36	10.4	184	28	87	100	6.5	4.00	7.0	40000	1.070	10904.2
19-Nov-16 06:00:00	36	10.6	187	28	87	100	6.5	4.00	7.0	40000	1.067	10904.8
19-Nov-16 06:15:00	36	10.4	188	29	87	100	6.5	4.00	7.0	40000	1.068	10905.3
19-Nov-16 06:30:00	36	10.5	187	29	87	100	6.5	4.00	7.0	40000	1.065	10905.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
19-Nov-16 06:45:00	36	10.4	192	29	87	100	6.5	4.00	7.0	40000	1.064	10906.3
19-Nov-16 07:00:00	36	10.4	185	30	86	100	6.5	4.00	7.0	40000	1.063	10906.8
19-Nov-16 07:15:00	36	10.1	190	30	87	100	6.5	4.00	7.0	40000	1.062	10907.4
19-Nov-16 07:30:00	36	9.3	187	31	87	100	6.5	4.00	7.0	40000	1.061	10908.0
19-Nov-16 07:45:00	36	7.4	187	31	86	100	6.5	4.00	7.0	40000	1.062	10908.6
19-Nov-16 08:00:00	Gas SG=0.638.											
19-Nov-16 08:00:00	36	7.3	186	32	86	100	6.5	4.00	7.0	40000	1.057	10909.1
19-Nov-16 08:15:00	36	7.3	189	32	87	100	6.5	4.00	7.0	40000	1.066	10909.6
19-Nov-16 08:30:00	36	7.3	189	33	86	100	6.5	4.00	7.0	40000	1.067	10910.0
19-Nov-16 08:45:00	36	7.3	192	33	87	100	6.5	4.00	7.0	40000	1.062	10910.5
19-Nov-16 09:00:00	36	7.3	192	34	87	100	6.5	4.00	7.0	40000	1.064	10911.0
19-Nov-16 09:15:00	36	7.3	191	35	86	100	6.5	4.00	7.0	40000	1.059	10911.2
19-Nov-16 09:30:00	36	6.9	192	35	86	100	6.5	4.00	7.0	40000	1.062	10911.4
19-Nov-16 09:45:00	36	5.1	189	36	86	100	6.5	4.00	7.0	40000	1.064	10911.7
19-Nov-16 10:00:00	36	4.4	190	36	87	100	6.5	4.00	7.0	40000	1.061	10911.9
19-Nov-16 10:15:00	36	4.3	184	37	86	100	6.5	4.00	7.0	40000	1.066	10912.5
19-Nov-16 10:30:00	36	4.3	191	37	87	100	6.5	4.00	7.0	40000	1.056	10913.0
19-Nov-16 10:45:00	36	4.3	187	37	87	100	6.5	4.00	7.0	40000	1.061	10913.6
19-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
19-Nov-16 11:00:00	36	4.3	190	38	87	100	6.5	4.00	7.0	40000	1.052	10914.2
19-Nov-16 11:00:01	Drained VX liquid port, found trace of sand.											
19-Nov-16 11:00:02	Water sample from VX: pH=6.5, Electrical Conductivity=63.94mS@28.8degC,Water Density=1012.38kg/m3@30DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-247.2mV2, Salinity=40000ppm.											
19-Nov-16 11:15:00	36	4.3	189	37	87	100	6.5	4.00	7.0	40000	1.058	10914.7
19-Nov-16 11:30:00	36	4.3	184	37	86	100	6.5	4.00	7.0	40000	1.057	10915.1
19-Nov-16 11:45:00	36	4.3	190	37	86	100	6.5	4.00	7.0	40000	1.058	10915.6
19-Nov-16 12:00:00	36	4.3	191	38	87	100	6.5	4.00	7.0	40000	1.056	10916.0
19-Nov-16 12:15:00	36	4.3	187	37	87	100	6.5	4.00	7.0	40000	1.056	10916.6
19-Nov-16 12:30:00	36	4.3	193	38	87	100	6.5	4.00	7.0	40000	1.057	10917.2
19-Nov-16 12:45:00	36	4.3	194	40	87	100	6.5	4.00	7.0	40000	1.056	10917.8
19-Nov-16 13:00:00	36	4.3	195	39	87	100	6.5	4.00	7.0	40000	1.058	10918.3
19-Nov-16 13:15:00	36	4.3	192	39	87	100	6.5	4.00	7.0	40000	1.056	10918.8
19-Nov-16 13:30:00	36	4.3	192	39	87	100	6.5	4.00	7.0	40000	1.055	10919.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
19-Nov-16 13:45:00	36	4.3	189	38	87	100	6.5	4.00	7.0	40000	1.054	10919.7
19-Nov-16 14:00:00	Gas SG=0.640.											
19-Nov-16 14:00:00	36	4.3	191	39	87	100	6.5	4.00	7.0	40000	1.053	10920.2
19-Nov-16 14:15:00	36	4.3	187	40	87	100	6.5	4.00	7.0	40000	1.052	10920.6
19-Nov-16 14:30:00	36	4.3	194	40	89	100	6.5	4.00	7.0	40000	1.053	10921.1
19-Nov-16 14:45:00	36	1.8	193	40	88	100	6.5	4.00	7.0	40000	1.056	10921.6
19-Nov-16 15:00:00	36	4.5	188	39	88	100	6.5	4.00	7.0	40000	1.052	10922.0
19-Nov-16 15:15:00	36	4.5	188	37	87	100	6.5	4.00	7.0	40000	1.050	10922.2
19-Nov-16 15:30:00	36	4.5	192	38	88	100	6.5	4.00	7.0	40000	1.051	10922.5
19-Nov-16 15:45:00	36	4.5	188	39	87	100	6.5	4.00	7.0	40000	1.052	10922.7
19-Nov-16 16:00:00	36	1.7	190	39	87	100	6.5	4.00	7.0	40000	1.051	10922.9
19-Nov-16 16:15:00	36	3.2	189	38	87	100	6.5	4.00	7.0	40000	1.055	10923.4
19-Nov-16 16:30:00	36	3.5	188	38	87	100	6.5	4.00	7.0	40000	1.048	10923.9
19-Nov-16 16:45:00	36	4.5	191	38	89	100	6.5	4.00	7.0	40000	1.051	10924.3
19-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
19-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=64.48mS@27.8degC,Water Density=1013.9kg/m3@29.1DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-242.5mV2, Salinity=41000ppm.											
19-Nov-16 17:00:00	36	4.5	186	37	88	100	6.4	4.00	7.0	41000	1.046	10924.8
19-Nov-16 17:15:00	36	4.5	186	37	88	100	6.4	4.00	7.0	41000	1.046	10925.3
19-Nov-16 17:30:00	36	4.7	189	35	87	100	6.4	4.00	7.0	41000	1.048	10925.9
19-Nov-16 17:45:00	36	4.6	188	35	89	100	6.4	4.00	7.0	41000	1.045	10926.5
19-Nov-16 18:00:00	36	4.7	184	34	88	100	6.4	4.00	7.0	41000	1.046	10927.1
19-Nov-16 18:15:00	36	4.7	191	34	89	100	6.4	4.00	7.0	41000	1.042	10927.5
19-Nov-16 18:30:00	36	4.7	187	33	88	100	6.4	4.00	7.0	41000	1.045	10928.0
19-Nov-16 18:45:00	36	5.6	188	33	87	100	6.4	4.00	7.0	41000	1.042	10928.5
19-Nov-16 19:00:00	36	7.3	189	33	89	100	6.4	4.00	7.0	41000	1.047	10928.9
19-Nov-16 19:15:00	36	7.4	185	33	87	100	6.4	4.00	7.0	41000	1.045	10929.4
19-Nov-16 19:30:00	36	7.6	190	33	88	100	6.4	4.00	7.0	41000	1.043	10929.8
19-Nov-16 19:45:00	36	7.6	185	32	87	100	6.4	4.00	7.0	41000	1.047	10930.3
19-Nov-16 20:00:00	Gas SG=0.642.											
19-Nov-16 20:00:00	36	7.6	189	32	87	100	6.4	4.00	7.0	41000	1.041	10930.8
19-Nov-16 20:15:00	36	7.7	189	32	88	100	6.4	4.00	7.0	41000	1.041	10931.2
19-Nov-16 20:30:00	36	7.7	191	32	89	100	6.4	4.00	7.0	41000	1.041	10931.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
19-Nov-16 20:45:00	36	7.5	186	32	87	100	6.4	4.00	7.0	41000	1.042	10932.1
19-Nov-16 21:00:00	36	7.5	185	32	87	100	6.4	4.00	7.0	41000	1.042	10932.6
19-Nov-16 21:15:00	36	7.5	182	31	87	100	6.4	4.00	7.0	41000	1.044	10933.2
19-Nov-16 21:30:00	36	7.5	187	31	87	100	6.4	4.00	7.0	41000	1.036	10933.7
19-Nov-16 21:45:00	36	7.5	187	31	87	100	6.4	4.00	7.0	41000	1.044	10934.3
19-Nov-16 22:00:00	36	7.5	187	31	87	100	6.4	4.00	7.0	41000	1.040	10934.9
19-Nov-16 22:15:00	36	7.5	186	31	87	100	6.4	4.00	7.0	41000	1.041	10935.4
19-Nov-16 22:30:00	36	7.5	186	31	87	100	6.4	4.00	7.0	41000	1.037	10935.8
19-Nov-16 22:45:00	36	7.5	191	31	87	100	6.4	4.00	7.0	41000	1.037	10936.3
19-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
19-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.78mS@23.1degC,Water Density=1013.5kg/m3@25.1DegC, Dissolved Oxygen=2.9%, Oxidation Reduction Potential=-242.3mV2, Salinity=40000ppm.											
19-Nov-16 23:00:00	36	7.5	187	31	87	100	6.5	4.00	7.0	40000	1.039	10936.7
19-Nov-16 23:15:00	36	7.5	188	31	87	100	6.5	4.00	7.0	40000	1.034	10937.2
19-Nov-16 23:30:00	36	7.5	189	31	88	100	6.5	4.00	7.0	40000	1.040	10937.7
19-Nov-16 23:45:00	36	7.5	182	31	87	100	6.5	4.00	7.0	40000	1.041	10938.1
20-Nov-16 00:00:00	36	7.6	184	31	87	100	6.5	4.00	7.0	40000	1.037	10938.6
20-Nov-16 00:15:00	36	7.7	186	31	87	100	6.5	4.00	7.0	40000	1.034	10939.0
20-Nov-16 00:30:00	36	7.5	186	30	87	100	6.5	4.00	7.0	40000	1.039	10939.5
20-Nov-16 00:45:00	36	7.5	186	30	87	100	6.5	4.00	7.0	40000	1.039	10940.0
20-Nov-16 01:00:00	36	7.5	187	30	87	100	6.5	4.00	7.0	40000	1.035	10940.4
20-Nov-16 01:15:00	36	7.7	185	30	87	100	6.5	4.00	7.0	40000	1.037	10940.9
20-Nov-16 01:30:00	36	9.4	183	30	87	100	6.5	4.00	7.0	40000	1.041	10941.3
20-Nov-16 01:45:00	36	9.8	185	30	87	100	6.5	4.00	7.0	40000	1.034	10941.8
20-Nov-16 02:00:00	Gas SG=0.642.											
20-Nov-16 02:00:00	36	10.5	182	30	87	100	6.5	4.00	7.0	40000	1.037	10942.3
20-Nov-16 02:15:00	36	10.6	186	30	88	100	6.5	4.00	7.0	40000	1.036	10942.7
20-Nov-16 02:30:00	36	10.6	182	30	87	100	6.5	4.00	7.0	40000	1.040	10943.2
20-Nov-16 02:45:00	36	10.5	183	30	87	100	6.5	4.00	7.0	40000	1.037	10943.6
20-Nov-16 03:00:00	36	10.6	181	30	87	100	6.5	4.00	7.0	40000	1.037	10944.1
20-Nov-16 03:15:00	36	10.5	184	30	87	100	6.5	4.00	7.0	40000	1.038	10944.5
20-Nov-16 03:30:00	36	10.6	182	30	86	100	6.5	4.00	7.0	40000	1.037	10945.0
20-Nov-16 03:45:00	36	10.6	187	30	86	100	6.5	4.00	7.0	40000	1.036	10945.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Nov-16 04:00:00	36	10.4	180	30	87	100	6.5	4.00	7.0	40000	1.043	10945.9
20-Nov-16 04:15:00	36	10.6	185	30	87	100	6.5	4.00	7.0	40000	1.037	10946.4
20-Nov-16 04:30:00	36	10.6	184	30	87	100	6.5	4.00	7.0	40000	1.040	10946.9
20-Nov-16 04:45:00	36	10.6	186	30	87	100	6.5	4.00	7.0	40000	1.039	10947.3
20-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.644.											
20-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.18mS@21degC,Water Density=1014.6kg/m3@23DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-249.8mV2, Salinity=40000ppm.											
20-Nov-16 05:00:00	36	10.6	185	30	87	100	6.5	4.00	7.0	40000	1.036	10947.8
20-Nov-16 05:01:00	Pumped 71.3 bbls from tank to pond.											
20-Nov-16 05:15:00	36	10.6	187	29	87	100	6.5	4.00	7.0	40000	1.036	10948.2
20-Nov-16 05:30:00	36	10.4	184	29	87	100	6.5	4.00	7.0	40000	1.041	10948.7
20-Nov-16 05:45:00	36	10.5	187	29	87	100	6.5	4.00	7.0	40000	1.035	10949.1
20-Nov-16 06:00:00	36	10.6	186	29	87	100	6.5	4.00	7.0	40000	1.036	10949.5
20-Nov-16 06:15:00	36	10.4	183	29	87	100	6.5	4.00	7.0	40000	1.036	10950.0
20-Nov-16 06:30:00	36	10.5	185	29	87	100	6.5	4.00	7.0	40000	1.028	10950.4
20-Nov-16 06:45:00	36	10.5	187	29	87	100	6.5	4.00	7.0	40000	1.039	10950.9
20-Nov-16 07:00:00	36	10.6	182	29	86	100	6.5	4.00	7.0	40000	1.037	10951.3
20-Nov-16 07:15:00	36	10.6	183	29	87	100	6.5	4.00	7.0	40000	1.034	10951.7
20-Nov-16 07:30:00	36	10.4	183	30	87	100	6.5	4.00	7.0	40000	1.035	10952.2
20-Nov-16 07:45:00	36	10.4	186	30	87	100	6.5	4.00	7.0	40000	1.035	10952.6
20-Nov-16 08:00:00	Gas SG=0.638.											
20-Nov-16 08:00:00	36	7.6	185	31	87	100	6.5	4.00	7.0	40000	1.038	10953.0
20-Nov-16 08:15:00	36	7.3	186	32	87	100	6.5	4.00	7.0	40000	1.036	10953.5
20-Nov-16 08:30:00	36	7.5	187	33	87	100	6.5	4.00	7.0	40000	1.043	10953.9
20-Nov-16 08:45:00	36	7.3	183	34	86	100	6.5	4.00	7.0	40000	1.040	10954.4
20-Nov-16 09:00:00	36	7.3	190	34	87	100	6.5	4.00	7.0	40000	1.037	10954.8
20-Nov-16 09:15:00	36	7.3	186	34	86	100	6.5	4.00	7.0	40000	1.048	10955.3
20-Nov-16 09:30:00	36	7.3	188	35	87	100	6.5	4.00	7.0	40000	1.039	10955.7
20-Nov-16 09:45:00	36	6.7	189	35	87	100	6.5	4.00	7.0	40000	1.042	10956.1
20-Nov-16 10:00:00	36	4.3	184	36	87	100	6.5	4.00	7.0	40000	1.043	10956.6
20-Nov-16 10:15:00	36	5.0	188	36	89	100	6.5	4.00	7.0	40000	1.042	10957.0
20-Nov-16 10:30:00	36	4.3	188	37	87	100	6.5	4.00	7.0	40000	1.041	10957.5
20-Nov-16 10:45:00	36	4.3	189	37	87	100	6.5	4.00	7.0	40000	1.041	10957.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
20-Nov-16 11:00:00	36	4.3	191	37	87	100	6.5	4.00	7.0	41000	1.042	10958.3
20-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=64.73mS@27.9degC,Water Density=1013.5kg/m3@29DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-270mV2, Salinity=41000ppm.											
20-Nov-16 11:05:00	Took ALS sample from Separator oil line, PH 6.1, EC=65.84mS @30.5degC, 10958bbls.											
20-Nov-16 11:15:00	36	4.3	183	38	87	100	6.5	4.00	7.0	41000	1.036	10958.8
20-Nov-16 11:30:00	36	4.3	187	38	87	100	6.5	4.00	7.0	41000	1.036	10959.3
20-Nov-16 11:45:00	36	4.5	189	36	87	100	6.5	4.00	7.0	41000	1.041	10959.7
20-Nov-16 12:00:00	36	4.3	192	38	87	100	6.5	4.00	7.0	41000	1.036	10960.2
20-Nov-16 12:15:00	36	4.3	187	37	87	100	6.5	4.00	7.0	41000	1.040	10960.6
20-Nov-16 12:30:00	36	4.5	186	35	87	100	6.5	4.00	7.0	41000	1.038	10961.1
20-Nov-16 12:45:00	36	4.5	184	35	88	100	6.5	4.00	7.0	41000	1.037	10961.6
20-Nov-16 13:00:00	36	4.5	188	36	87	100	6.5	4.00	7.0	41000	1.039	10962.0
20-Nov-16 13:15:00	36	4.3	189	38	87	100	6.5	4.00	7.0	41000	1.035	10962.5
20-Nov-16 13:30:00	36	4.3	191	40	87	100	6.5	4.00	7.0	41000	1.039	10962.9
20-Nov-16 13:45:00	36	4.3	190	39	87	100	6.5	4.00	7.0	41000	1.039	10963.4
20-Nov-16 14:00:00	Gas SG=0.640.											
20-Nov-16 14:00:00	36	4.4	188	36	87	100	6.5	4.00	7.0	41000	1.034	10963.9
20-Nov-16 14:15:00	36	5.0	185	32	88	100	6.5	4.00	7.0	41000	1.036	10964.3
20-Nov-16 14:20:00	Electrical Storm in area.											
20-Nov-16 14:30:00	36	7.7	185	30	89	100	6.5	4.00	7.0	41000	1.036	10964.8
20-Nov-16 14:45:00	36	10.6	183	27	89	100	6.5	4.00	7.0	41000	1.033	10965.2
20-Nov-16 15:00:00	36	10.6	185	27	88	100	6.5	4.00	7.0	41000	1.034	10965.7
20-Nov-16 15:15:00	36	10.6	181	25	87	100	6.5	4.00	7.0	41000	1.033	10966.2
20-Nov-16 15:27:00	Noticed smoke a few km's from well site, possible fire from lightning strike.											
20-Nov-16 15:30:00	36	10.8	185	25	87	100	6.5	4.00	7.0	41000	1.033	10966.6
20-Nov-16 15:45:00	Discussed ER plan and how to secure well with WSR, in event fire starts to pose a threat to the wellsite.											
20-Nov-16 15:45:00	36	10.6	182	26	86	100	6.5	4.00	7.0	41000	1.038	10967.1
20-Nov-16 16:00:00	36	10.6	182	27	87	100	6.5	4.00	7.0	41000	1.033	10967.5
20-Nov-16 16:15:00	36	10.4	185	27	87	100	6.5	4.00	7.0	41000	1.035	10968.0
20-Nov-16 16:30:00	36	10.6	181	28	87	100	6.5	4.00	7.0	41000	1.036	10968.5
20-Nov-16 16:45:00	36	10.4	185	29	87	100	6.5	4.00	7.0	41000	1.033	10968.9
20-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Nov-16 17:00:00	36	7.3	187	31	87	100	6.5	4.00	7.0	40000	1.038	10969.4
20-Nov-16 17:01:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.29mS@22.9degC,Water Density=1013.9kg/m3@24.9DegC, Dissolved Oxygen=3.5%, Oxidation Reduction Potential=-193mV2, Salinity=40000ppm.											
20-Nov-16 17:15:00	36	7.3	184	31	87	100	6.5	4.00	7.0	40000	1.039	10969.9
20-Nov-16 17:30:00	36	7.3	185	31	87	100	6.5	4.00	7.0	40000	1.034	10970.5
20-Nov-16 17:45:00	36	7.3	187	31	88	100	6.5	4.00	7.0	40000	1.033	10971.1
20-Nov-16 18:00:00	36	7.3	187	31	87	100	6.5	4.00	7.0	40000	1.034	10971.7
20-Nov-16 18:15:00	36	7.3	187	31	87	100	6.5	4.00	7.0	40000	1.032	10972.2
20-Nov-16 18:30:00	36	7.3	185	31	88	100	6.5	4.00	7.0	40000	1.034	10972.8
20-Nov-16 18:45:00	36	7.5	182	31	88	100	6.5	4.00	7.0	40000	1.037	10973.4
20-Nov-16 19:00:00	36	7.5	183	30	88	100	6.5	4.00	7.0	40000	1.035	10974.0
20-Nov-16 19:15:00	36	10.2	183	30	89	100	6.5	4.00	7.0	40000	1.031	10974.5
20-Nov-16 19:30:00	36	10.4	183	30	88	100	6.5	4.00	7.0	40000	1.032	10975.1
20-Nov-16 19:45:00	36	10.4	186	30	87	100	6.5	4.00	7.0	40000	1.029	10975.7
20-Nov-16 20:00:00	Gas SG=0.642.											
20-Nov-16 20:00:00	36	10.4	186	30	88	100	6.5	4.00	7.0	40000	1.032	10976.3
20-Nov-16 20:15:00	36	10.4	184	30	87	100	6.5	4.00	7.0	40000	1.030	10976.7
20-Nov-16 20:30:00	36	10.6	187	30	87	100	6.5	4.00	7.0	40000	1.032	10977.2
20-Nov-16 20:45:00	36	10.5	182	30	87	100	6.5	4.00	7.0	40000	1.035	10977.7
20-Nov-16 21:00:00	36	10.6	185	29	89	100	6.5	4.00	7.0	40000	1.034	10978.1
20-Nov-16 21:15:00	36	10.4	180	29	87	100	6.5	4.00	7.0	40000	1.031	10978.6
20-Nov-16 21:30:00	36	10.6	185	29	89	100	6.5	4.00	7.0	40000	1.031	10979.0
20-Nov-16 21:45:00	36	10.4	182	29	89	100	6.5	4.00	7.0	40000	1.035	10979.5
20-Nov-16 22:00:00	36	10.4	183	29	88	100	6.5	4.00	7.0	40000	1.033	10980.0
20-Nov-16 22:05:00	Shut in the well at Wellhead Master valve due to bushfire coming close to the wellsite.											
20-Nov-16 22:06:00	Lifted 1.75" Orifice plate.											
20-Nov-16 22:06:00	End of MP.											
20-Nov-16 22:07:00	Closed Choke manifold.											
20-Nov-16 22:08:00	Closed wellhead Wing valve.											
20-Nov-16 22:09:00	Closed SSV.											
20-Nov-16 22:15:00	0	7.6	16	28	33	100	6.5	4.00	7.0	40000		10980.0
20-Nov-16 22:28:40	1.0927E-087.28467E-1011258.494490.00268530.0001790258.06459872-3.333316.6670.2144821.17833.88327.099											
20-Nov-16 22:30:00	0	7.7	16	28	34	100	6.5	4.00	7.0	40000		10980.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
20-Nov-16 22:45:00	0	4.7	16	27	32	100	6.5	4.00	7.0	40000		10980.0
20-Nov-16 23:00:00	0	4.7	16	26	33	100	6.5	4.00	7.0	40000		10980.0
20-Nov-16 23:15:00	0	4.7	16	25	33	100	6.5	4.00	7.0	40000		10980.0
20-Nov-16 23:30:00	0	4.7	16	25	34	100	6.5	4.00	7.0	40000		10980.0
20-Nov-16 23:45:00	0	4.7	16	24	33	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 00:00:00	0	4.7	16	24	33	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 00:15:00	0	4.7	16	23	34	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 00:30:00	0	4.3	16	23	33	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 00:45:00	0	3.7	16	22	33	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 01:00:00	0	3.1	16	22	33	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 01:15:00	0	2.6	16	22	33	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 01:30:00	0	1.6	16	21	33	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 01:45:00	0	1.8	16	21	16	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 02:00:00	0	1.8	16	21	16	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 02:15:00	0	1.8	16	21	16	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 02:30:00	0	1.7	16	20	16	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 02:45:00	0	1.7	16	20	17	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 02:56:00	Opened SSV.											
21-Nov-16 02:59:00	Opened wellhead Wing valve.											
21-Nov-16 03:00:00	Opened wellhead Master valve.											
21-Nov-16 03:00:00	0	1.8	990	20	16	100	6.5	4.00	7.0	40000		10980.0
21-Nov-16 03:15:00	0	1.8	1037	20	15	100	6.5	4.00	7.0	40000		10980.6
21-Nov-16 03:16:00	Opened well on 10/64" adjustable choke through Separator to gas flare.											
21-Nov-16 03:20:00	Increased to 12/64" adjustable choke.											
21-Nov-16 03:25:00	Increased to 16/64" adjustable choke.											
21-Nov-16 03:30:00	Increased to 20/64" adjustable choke.											
21-Nov-16 03:30:00	20	1.8	735	19	75	100	6.5	4.00	7.0	40000		10981.3
21-Nov-16 03:35:00	Increased to 24/64" adjustable choke.											
21-Nov-16 03:40:00	Increased to 28/64" adjustable choke.											
21-Nov-16 03:45:00	Increased to 32/64" adjustable choke.											
21-Nov-16 03:45:00	32	4.7	507	22	106	100	6.5	4.00	7.0	40000		10982.0
21-Nov-16 03:50:00	Increased to 36/64" adjustable choke.											
21-Nov-16 03:52:00	Switched to 36/64" fixed choke.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
21-Nov-16 04:00:00	36	4.7	350	28	109	100	6.5	4.00	7.0	40000		10982.7
21-Nov-16 04:15:00	Bypassed sand filter, LH filter plugged after slug.											
21-Nov-16 04:15:00	36	4.7	442	29	90	100	6.5	4.00	7.0	40000		10983.1
21-Nov-16 04:30:00	36	6.8	328	29	109	100	6.5	4.00	7.0	40000		10983.4
21-Nov-16 04:45:00	36	7.7	303	29	94	100	6.5	4.00	7.0	40000		10983.7
21-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.644.											
21-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=45.59mS@21.6degC,Water Density=1008.8kg/m3@23.4DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-286.8mV2, Salinity=32000ppm.											
21-Nov-16 05:00:00	36	7.5	294	29	106	100	6.5	4.00	7.0	32000		10984.1
21-Nov-16 05:15:00	36	7.5	278	29	100	100	6.5	4.00	7.0	32000		10984.4
21-Nov-16 05:30:00	36	7.5	282	29	102	100	6.5	4.00	7.0	32000		10984.8
21-Nov-16 05:45:00	36	10.5	265	29	97	100	6.5	4.00	7.0	32000		10985.1
21-Nov-16 06:00:00	36	10.6	264	29	96	100	6.5	4.00	7.0	32000		10985.5
21-Nov-16 06:15:00	36	10.6	256	29	95	100	6.5	4.00	7.0	32000		10985.8
21-Nov-16 06:18:00	Lined up sand filter to RH filter, closed by-pass.											
21-Nov-16 06:20:00	By-pass valve only closing 17 out of 19 turns, indicating debris is cavity.											
21-Nov-16 06:30:00	36	10.4	249	29	91	100	6.5	4.00	7.0	32000		10986.2
21-Nov-16 06:45:00	36	10.4	250	30	88	100	6.5	4.00	7.0	32000		10986.5
21-Nov-16 07:00:00	36	10.4	244	30	89	100	6.5	4.00	7.0	32000		10986.9
21-Nov-16 07:10:00	Greased and cycled sand filter by-pass valve to clear debris from valve cavity.											
21-Nov-16 07:15:00	36	10.4	239	31	86	100	6.5	4.00	7.0	32000		10987.2
21-Nov-16 07:30:00	36	10.2	235	31	84	100	6.5	4.00	7.0	32000		10987.5
21-Nov-16 07:31:00	Closed SF by-pass valve, flowing through RH screen.											
21-Nov-16 07:39:00	Lowered 1.75" Orifice plate, differential pressure above 70% range, lifted 1.75" Orifice plate.											
21-Nov-16 07:40:00	Changed to 2" Orifice plate.											
21-Nov-16 07:45:00	36	7.5	233	31	83	100	6.5	4.00	7.0	32000		10987.9
21-Nov-16 07:55:00	MP on 36/64" Fixed Choke.											
21-Nov-16 07:55:00	Lowered 2" Orifice plate.											
21-Nov-16 08:00:00	Differential across sand filter slowly increasing, indicating RH screen is starting to plug.											
21-Nov-16 08:00:00	Gas SG=0.640.											
21-Nov-16 08:00:00	36	7.3	238	32	84	100	6.5	4.00	7.0	32000		10988.2
21-Nov-16 08:15:00	36	7.3	231	32	81	100	6.5	4.00	7.0	32000	1.458	10988.5
21-Nov-16 08:30:00	Flushed LH sand filter with fresh water.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
21-Nov-16 08:30:00	36	7.3	235	33	81	100	6.5	4.00	7.0	32000	1.428	10988.7
21-Nov-16 08:45:00	36	7.3	229	33	80	100	6.5	4.00	7.0	32000	1.414	10988.9
21-Nov-16 09:00:00	36	7.3	234	34	79	100	6.5	4.00	7.0	32000	1.387	10989.2
21-Nov-16 09:15:00	36	7.3	232	34	78	100	6.5	4.00	7.0	32000	1.375	10989.5
21-Nov-16 09:30:00	36	7.3	231	35	77	100	6.5	4.00	7.0	32000	1.352	10989.8
21-Nov-16 09:45:00	36	7.3	234	35	77	100	6.5	4.00	7.0	32000	1.339	10990.2
21-Nov-16 10:00:00	36	7.2	236	36	76	100	6.5	4.00	7.0	32000	1.322	10990.5
21-Nov-16 10:15:00	36	7.1	234	36	76	100	6.5	4.00	7.0	32000	1.313	10990.9
21-Nov-16 10:30:00	36	7.2	234	37	76	100	6.5	4.00	7.0	32000	1.301	10991.2
21-Nov-16 10:45:00	36	4.4	231	37	74	100	6.5	4.00	7.0	32000	1.284	10991.6
21-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
21-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=62.13mS@27.2degC,Water Density=1012.2kg/m3@29.2DegC, Dissolved Oxygen=2.7%, Oxidation Reduction Potential=-217.1mV2, Salinity=40000ppm.											
21-Nov-16 11:00:00	Flushed VX liquid port, found trace of sand and black grease like substance.											
21-Nov-16 11:00:00	36	6.4	234	38	74	100	6.5	4.00	7.0	40000	1.270	10991.9
21-Nov-16 11:15:00	36	4.3	231	38	73	100	6.5	4.00	7.0	40000	1.260	10992.4
21-Nov-16 11:30:00	36	4.3	234	38	73	100	6.5	4.00	7.0	40000	1.248	10992.8
21-Nov-16 11:45:00	36	4.4	235	39	73	100	6.5	4.00	7.0	40000	1.237	10993.3
21-Nov-16 12:00:00	36	4.3	231	39	73	100	6.5	4.00	7.0	40000	1.233	10993.8
21-Nov-16 12:15:00	36	4.5	229	39	71	100	6.5	4.00	7.0	40000	1.219	10994.3
21-Nov-16 12:30:00	36	4.5	236	40	71	100	6.5	4.00	7.0	40000	1.208	10994.9
21-Nov-16 12:42:00	Lifted 2.0" Orifice plate.											
21-Nov-16 12:42:00	End of MP.											
21-Nov-16 12:43:00	Switched to 36/64" adjustable choke.											
21-Nov-16 12:43:00	End of FP #3.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #4 EPT Flow - Data

Flow on 40/64" Fixed Choke

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
21-Nov-16 12:44:00	FP #4 Extended Production Test Flow on 40/64" Fixed Choke.											
21-Nov-16 12:44:00	Increased adjustable choke to 40/64".											
21-Nov-16 12:44:00	40	4.4	233	40	71	100	6.5	4.00	7.0	40000		10995.4
21-Nov-16 12:45:00	Installed 40/64" choke bean in manifold.											
21-Nov-16 12:45:00	40	4.4	233	40	71	100	6.5	4.00	7.0	40000		10995.5
21-Nov-16 12:49:00	Switched to 40/64" fixed choke.											
21-Nov-16 13:00:00	Continued to flush LH sand filer with fresh water. Black grease like substance being found in returns. Possible valve grease from tree.											
21-Nov-16 13:00:00	40	4.3	206	38	70	100	6.5	4.00	7.0	40000		10996.0
21-Nov-16 13:15:00	40	4.5	217	39	70	100	6.5	4.00	7.0	40000		10996.4
21-Nov-16 13:30:00	40	4.4	213	38	70	100	6.5	4.00	7.0	40000		10996.7
21-Nov-16 13:45:00	40	4.5	214	39	70	100	6.5	4.00	7.0	40000		10997.1
21-Nov-16 14:00:00	LH sand screen clean.											
21-Nov-16 14:00:00	Gas SG=0.640.											
21-Nov-16 14:00:00	40	4.5	212	38	68	100	6.5	4.00	7.0	40000		10997.4
21-Nov-16 14:06:38	Switched from RH sand screen to LH screen.											
21-Nov-16 14:07:00	Differential pressure across sand screen back to normal range.											
21-Nov-16 14:10:00	Started flushing RH sand screen with fresh water.											
21-Nov-16 14:15:00	40	4.5	176	39	70	100	6.5	4.00	7.0	40000		10997.8
21-Nov-16 14:30:00	40	4.4	178	40	68	100	6.5	4.00	7.0	40000		10998.1
21-Nov-16 14:45:00	40	4.4	180	39	70	100	6.5	4.00	7.0	40000		10998.5
21-Nov-16 15:00:00	40	4.4	175	38	70	100	6.5	4.00	7.0	40000		10998.8
21-Nov-16 15:12:00	MP on 40/64" Fixed Choke.											
21-Nov-16 15:12:00	Lowered 2.0" Orifice plate.											
21-Nov-16 15:15:00	40	4.5	179	37	71	100	6.5	4.00	7.0	40000	1.187	10999.4
21-Nov-16 15:30:00	40	7.5	180	36	71	100	6.5	4.00	7.0	40000	1.191	11000.0
21-Nov-16 15:45:00	40	4.5	171	37	71	100	6.5	4.00	7.0	40000	1.196	11000.5
21-Nov-16 16:00:00	40	4.5	170	38	72	100	6.5	4.00	7.0	40000	1.186	11001.1
21-Nov-16 16:15:00	40	4.5	167	37	71	100	6.5	4.00	7.0	40000	1.189	11001.6
21-Nov-16 16:30:00	40	4.5	176	37	71	100	6.5	4.00	7.0	40000	1.178	11002.0
21-Nov-16 16:45:00	40	4.5	167	37	71	100	6.5	4.00	7.0	40000	1.182	11002.5
21-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
21-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=66.25mS@30.7degC,Water Density=1011.5kg/m3@31.5DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-227.1mV2, Salinity=42000ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
21-Nov-16 17:00:00	40	7.1	171	35	71	100	6.5	4.00	8.0	42000	1.172	11003.0
21-Nov-16 17:10:00	Pumped 54.28 bbls from tank to pond.											
21-Nov-16 17:15:00	40	7.6	167	35	70	100	6.5	4.00	8.0	42000	1.172	11003.3
21-Nov-16 17:30:00	40	7.5	168	34	70	100	6.5	4.00	8.0	42000	1.166	11003.6
21-Nov-16 17:45:00	40	7.5	166	34	70	100	6.5	4.00	8.0	42000	1.168	11004.0
21-Nov-16 18:00:00	40	7.7	170	34	70	100	6.5	4.00	8.0	42000	1.158	11004.3
21-Nov-16 18:15:00	40	7.6	171	34	70	100	6.5	4.00	8.0	42000	1.164	11004.9
21-Nov-16 18:30:00	40	7.7	170	34	69	100	6.5	4.00	8.0	42000	1.158	11005.5
21-Nov-16 18:45:00	40	7.7	166	33	68	100	6.5	4.00	8.0	42000	1.159	11006.1
21-Nov-16 19:00:00	40	7.7	169	33	70	100	6.5	4.00	8.0	42000	1.152	11006.6
21-Nov-16 19:15:00	40	7.6	170	33	75	100	6.5	4.00	8.0	42000	1.149	11007.1
21-Nov-16 19:30:00	40	7.5	165	33	75	100	6.5	4.00	8.0	42000	1.152	11007.5
21-Nov-16 19:45:00	40	7.7	167	32	76	100	6.5	4.00	8.0	42000	1.149	11008.0
21-Nov-16 20:00:00	Gas SG=0.642											
21-Nov-16 20:00:00	40	7.9	173	32	75	100	6.5	4.00	8.0	42000	1.149	11008.5
21-Nov-16 20:15:00	40	9.6	167	32	76	100	6.5	4.00	8.0	42000	1.145	11008.9
21-Nov-16 20:30:00	40	10.1	167	32	75	100	6.5	4.00	8.0	42000	1.149	11009.4
21-Nov-16 20:45:00	40	9.0	166	32	75	100	6.5	4.00	8.0	42000	1.143	11009.8
21-Nov-16 21:00:00	40	8.6	165	32	75	100	6.5	4.00	8.0	42000	1.145	11010.3
21-Nov-16 21:15:00	40	8.7	162	32	74	100	6.5	4.00	8.0	42000	1.141	11010.7
21-Nov-16 21:30:00	40	10.5	167	31	76	100	6.5	4.00	8.0	42000	1.138	11011.0
21-Nov-16 21:45:00	40	10.6	169	31	75	100	6.5	4.00	8.0	42000	1.140	11011.3
21-Nov-16 22:00:00	40	10.4	167	31	75	100	6.5	4.00	8.0	42000	1.141	11011.7
21-Nov-16 22:15:00	40	10.5	167	31	76	100	6.5	4.00	8.0	42000	1.141	11012.2
21-Nov-16 22:30:00	40	10.6	165	31	74	100	6.5	4.00	8.0	42000	1.137	11012.6
21-Nov-16 22:45:00	40	10.5	168	31	75	100	6.5	4.00	8.0	42000	1.132	11013.1
21-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
21-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=59.24mS@24.2degC,Water Density=1013.6kg/m3@26.2DegC, Dissolved Oxygen=5.6%, Oxidation Reduction Potential=-190.6mV2, Salinity=40000ppm.											
21-Nov-16 23:00:00	40	10.6	168	31	75	100	6.5	4.00	8.0	40000	1.133	11013.5
21-Nov-16 23:15:00	40	10.6	172	31	75	100	6.5	4.00	8.0	40000	1.132	11014.1
21-Nov-16 23:30:00	40	10.6	167	31	74	100	6.5	4.00	8.0	40000	1.134	11014.7
21-Nov-16 23:32:00	Lifted 2.0" Orifice plate due to bushfire coming close to the wellsite.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
21-Nov-16 23:32:00	End of MP.											
21-Nov-16 23:45:00	Discussed with WSR, kept flowing well and monitoring the bushfire closely.											
21-Nov-16 23:45:00	40	10.6	167	31	74	100	6.5	4.00	8.0	40000		11015.3
22-Nov-16 00:00:00	40	10.6	164	31	74	100	6.5	4.00	8.0	40000		11015.8
22-Nov-16 00:01:00	MP on 40/64" Fixed Choke.											
22-Nov-16 00:01:00	Lowered 2.0" Orifice plate.											
22-Nov-16 00:15:00	40	10.6	167	31	74	100	6.5	4.00	8.0	40000	1.127	11016.3
22-Nov-16 00:30:00	40	10.6	168	31	74	100	6.5	4.00	8.0	40000	1.129	11016.8
22-Nov-16 00:45:00	40	10.6	162	31	74	100	6.5	4.00	8.0	40000	1.130	11017.2
22-Nov-16 01:00:00	40	10.6	162	31	73	100	6.5	4.00	8.0	40000	1.124	11017.7
22-Nov-16 01:15:00	40	10.6	162	31	74	100	6.5	4.00	8.0	40000	1.126	11017.7
22-Nov-16 01:22:00	Lifted 2.0" Orifice plate.											
22-Nov-16 01:22:00	End of MP.											
22-Nov-16 01:23:00	Shut in the well at wellhead Master valve due to bushfire coming close to the wellsite.											
22-Nov-16 01:25:00	Closed Choke manifold.											
22-Nov-16 01:27:00	Closed wellhead Wing valve.											
22-Nov-16 01:28:00	Closed SSV.											
22-Nov-16 01:30:00	0	9.8	16	30	15	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 01:45:00	0	5.2	16	29	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 02:00:00	0	4.7	16	28	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 02:15:00	0	4.7	15	27	16	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 02:30:00	0	4.8	16	26	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 02:45:00	0	4.5	16	26	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 03:00:00	0	4.3	15	25	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 03:15:00	0	1.8	15	25	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 03:30:00	0	1.9	15	24	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 03:45:00	0	1.9	15	24	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 04:00:00	0	1.8	15	23	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 04:15:00	0	1.9	15	23	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 04:30:00	0	1.8	15	23	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 04:45:00	0	1.8	16	23	16	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 05:00:00	0	1.8	15	22	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 05:15:00	0	1.9	15	22	16	100	6.5	4.00	8.0	40000		11017.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Nov-16 05:30:00	0	1.9	15	22	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 05:45:00	Opened SSV.											
22-Nov-16 05:45:00	0	1.8	15	22	17	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 05:47:00	Opened wellhead Wing valve.											
22-Nov-16 05:48:00	Opened wellhead Master valve.											
22-Nov-16 05:50:00	Opened well on 10/64" adjustable choke through Separator to gas flare.											
22-Nov-16 05:55:00	Increased to 12/64" adjustable choke.											
22-Nov-16 06:00:00	Increased to 16/64" adjustable choke.											
22-Nov-16 06:00:00	16	1.8	1019	22	58	100	6.5	4.00	8.0	40000		11017.7
22-Nov-16 06:05:00	Increased to 20/64" adjustable choke.											
22-Nov-16 06:10:00	Increased to 24/64" adjustable choke.											
22-Nov-16 06:15:00	Increased to 28/64" adjustable choke.											
22-Nov-16 06:15:00	28	1.8	770	22	102	100	6.5	4.00	8.0	40000		11018.5
22-Nov-16 06:20:00	Increased to 32/64" adjustable choke.											
22-Nov-16 06:25:00	Increased to 36/64" adjustable choke.											
22-Nov-16 06:30:00	Increased to 40/64" adjustable choke.											
22-Nov-16 06:30:00	40	2.8	300	24	90	100	6.5	4.00	8.0	40000		11019.3
22-Nov-16 06:32:00	Switched to 40/64" fixed choke.											
22-Nov-16 06:34:00	Passed flow through LH sand screen.											
22-Nov-16 06:35:00	Opened Separator oil outler to tank.											
22-Nov-16 06:45:00	40	4.7	256	28	102	100	6.5	4.00	8.0	40000		11020.1
22-Nov-16 07:00:00	40	4.7	265	29	100	100	6.5	4.00	8.0	40000		11020.9
22-Nov-16 07:15:00	40	4.7	250	29	99	100	6.5	4.00	8.0	40000		11021.2
22-Nov-16 07:30:00	40	4.7	254	30	100	100	6.5	4.00	8.0	40000		11021.6
22-Nov-16 07:45:00	40	6.3	240	30	99	100	6.5	4.00	8.0	40000		11021.9
22-Nov-16 08:00:00	Gas SG=0.638.											
22-Nov-16 08:00:00	40	7.7	236	30	98	100	6.5	4.00	8.0	40000		11022.3
22-Nov-16 08:15:00	40	7.5	229	30	95	100	6.5	4.00	8.0	40000		11022.7
22-Nov-16 08:30:00	40	7.5	219	31	91	100	6.5	4.00	8.0	40000		11023.2
22-Nov-16 08:45:00	40	7.5	223	31	92	100	6.5	4.00	8.0	40000		11023.7
22-Nov-16 09:00:00	40	7.5	218	31	90	100	6.5	4.00	8.0	40000		11024.1
22-Nov-16 09:15:00	40	7.5	209	31	87	100	6.5	4.00	8.0	40000		11024.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Nov-16 09:30:00	40	7.5	207	32	86	100	6.5	4.00	8.0	40000		11024.8
22-Nov-16 09:45:00	40	7.5	208	32	85	100	6.5	4.00	8.0	40000		11025.1
22-Nov-16 10:00:00	40	7.5	202	32	83	100	6.5	4.00	8.0	40000		11025.5
22-Nov-16 10:15:00	40	7.5	201	33	81	100	6.5	4.00	8.0	40000		11025.9
22-Nov-16 10:30:00	40	7.5	197	34	80	100	6.5	4.00	8.0	40000		11026.4
22-Nov-16 10:45:00	MP on 40/64" Fixed Choke.											
22-Nov-16 10:45:00	Lowered 2.0" Orifice plate.											
22-Nov-16 10:45:00	40	7.5	199	34	80	100	6.5	4.00	8.0	40000		11026.9
22-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
22-Nov-16 11:00:00	40	7.3	195	35	80	100	6.5	4.00	8.0	37000	1.399	11027.3
22-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=61.35mS@29.6degC,Water Density=1010.3kg/m3@30DegC, Dissolved Oxygen=4.2%, Oxidation Reduction Potential=-198.1mV2, Salinity=37000ppm.											
22-Nov-16 11:00:02	Drained VX liquid port, found approx. 1cc of sand.											
22-Nov-16 11:15:00	40	7.3	195	36	78	100	6.5	4.00	8.0	37000	1.380	11027.7
22-Nov-16 11:30:00	40	7.2	190	36	78	100	6.5	4.00	8.0	37000	1.358	11028.0
22-Nov-16 11:45:00	40	7.3	192	37	78	100	6.5	4.00	8.0	37000	1.340	11028.4
22-Nov-16 12:00:00	40	7.3	192	37	77	100	6.5	4.00	8.0	37000	1.330	11028.7
22-Nov-16 12:15:00	40	7.3	191	38	75	100	6.5	4.00	8.0	37000	1.316	11029.1
22-Nov-16 12:30:00	40	6.0	181	38	75	100	6.5	4.00	8.0	37000	1.304	11029.4
22-Nov-16 12:45:00	40	4.3	185	38	74	100	6.5	4.00	8.0	37000	1.282	11029.7
22-Nov-16 13:00:00	40	5.0	184	38	75	100	6.5	4.00	8.0	37000	1.274	11030.1
22-Nov-16 13:15:00	40	5.8	182	38	73	100	6.5	4.00	8.0	37000	1.258	11030.5
22-Nov-16 13:30:00	40	4.3	175	38	73	100	6.5	4.00	8.0	37000	1.254	11031.0
22-Nov-16 13:45:00	40	7.3	179	37	73	100	6.5	4.00	8.0	37000	1.235	11031.5
22-Nov-16 14:00:00	40	4.6	180	37	73	100	6.5	4.00	8.0	37000	1.234	11031.9
22-Nov-16 14:15:00	40	5.8	179	38	71	100	6.5	4.00	8.0	37000	1.222	11032.3
22-Nov-16 14:30:00	40	4.5	177	37	71	100	6.5	4.00	8.0	37000	1.215	11032.6
22-Nov-16 14:45:00	40	5.9	180	36	71	100	6.5	4.00	8.0	37000	1.207	11033.0
22-Nov-16 15:00:00	40	7.3	177	35	71	100	6.5	4.00	8.0	37000	1.199	11033.3
22-Nov-16 15:15:00	40	7.4	180	35	71	100	6.5	4.00	8.0	37000	1.198	11033.7
22-Nov-16 15:30:00	Separator pressure sp ked 10psi, lifted 2.0" Orifice plate.											
22-Nov-16 15:30:00	40	7.4	174	34	79	100	6.5	4.00	8.0	37000		11034.0
22-Nov-16 15:30:00	End of MP.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Nov-16 15:33:37	Adjusted Separator pressure to 65psia.											
22-Nov-16 15:45:00	40	7.5	180	34	70	100	6.5	4.00	8.0	37000		11034.3
22-Nov-16 16:00:00	40	7.5	175	33	70	100	6.5	4.00	8.0	37000		11034.7
22-Nov-16 16:13:00	MP on 40/64" Fixed Choke.											
22-Nov-16 16:13:00	Separator stable, lowered 2.0" Orifice plate.											
22-Nov-16 16:15:00	40	7.5	175	33	71	100	6.5	4.00	8.0	37000		11035.3
22-Nov-16 16:30:00	40	7.4	173	33	70	100	6.5	4.00	8.0	37000	1.173	11035.8
22-Nov-16 16:45:00	40	7.5	172	33	70	100	6.5	4.00	8.0	37000	1.161	11036.4
22-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
22-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=61.84mS@27degC,Water Density=1012.6kg/m3@28DegC, Dissolved Oxygen=3.9%, Oxidation Reduction Potential=-195.1mV2, Salinity=40000ppm.											
22-Nov-16 17:00:00	40	7.5	171	33	70	100	6.5	4.00	8.0	40000	1.165	11037.0
22-Nov-16 17:15:00	40	7.5	172	32	69	100	6.5	4.00	8.0	40000	1.151	11037.3
22-Nov-16 17:30:00	40	10.4	173	31	70	100	6.5	4.00	8.0	40000	1.160	11037.7
22-Nov-16 17:45:00	40	10.4	169	31	70	100	6.5	4.00	8.0	40000	1.157	11038.0
22-Nov-16 18:00:00	40	10.4	176	30	71	100	6.5	4.00	8.0	40000	1.154	11038.4
22-Nov-16 18:15:00	40	10.6	170	31	70	100	6.5	4.00	8.0	40000	1.151	11038.9
22-Nov-16 18:30:00	40	10.4	170	31	70	100	6.5	4.00	8.0	40000	1.150	11039.5
22-Nov-16 18:45:00	40	10.5	174	31	70	100	6.5	4.00	8.0	40000	1.145	11040.1
22-Nov-16 19:00:00	40	10.4	170	31	70	100	6.5	4.00	8.0	40000	1.148	11040.7
22-Nov-16 19:15:00	40	10.4	172	31	70	100	6.5	4.00	8.0	40000	1.138	11041.2
22-Nov-16 19:30:00	40	10.4	172	31	69	100	6.5	4.00	8.0	40000	1.149	11041.8
22-Nov-16 19:45:00	40	10.6	164	31	68	100	6.5	4.00	8.0	40000	1.147	11042.4
22-Nov-16 20:00:00	Gas SG=0.642.											
22-Nov-16 20:00:00	40	10.4	168	31	70	100	6.5	4.00	8.0	40000	1.136	11043.0
22-Nov-16 20:15:00	40	10.4	168	31	68	100	6.5	4.00	8.0	40000	1.134	11043.4
22-Nov-16 20:30:00	40	10.4	169	31	68	100	6.5	4.00	8.0	40000	1.133	11043.9
22-Nov-16 20:35:00	STAF was freezing.											
22-Nov-16 20:45:00	40	10.4	169	31	69	100	6.5	4.00	8.0	40000	1.127	11044.4
22-Nov-16 21:00:00	40	10.6	169	31	68	100	6.5	4.00	8.0	40000	1.123	11044.8
22-Nov-16 21:15:00	40	10.4	169	31	68	100	6.5	4.00	8.0	40000	1.123	11045.3
22-Nov-16 21:30:00	40	10.6	169	31	68	100	6.5	4.00	8.0	40000	1.123	11045.7
22-Nov-16 21:45:00	40	10.5	168	31	68	100	6.5	4.00	8.0	40000	1.123	11046.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
22-Nov-16 22:00:00	40	10.4	168	31	68	100	6.5	4.00	8.0	40000	1.123	11046.7
22-Nov-16 22:10:00	Re-started STAF and data acquisition.											
22-Nov-16 22:15:00	40	10.5	167	31	68	100	6.5	4.00	8.0	40000	1.127	11047.1
22-Nov-16 22:30:00	40	10.4	169	31	68	100	6.5	4.00	8.0	40000	1.128	11047.6
22-Nov-16 22:45:00	40	10.4	169	31	68	100	6.5	4.00	8.0	40000	1.129	11048.0
22-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
22-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.42mS@23.7degC,Water Density=1013.3kg/m3@25.2DegC, Dissolved Oxygen=5.2%, Oxidation Reduction Potential=-218.4mV2, Salinity=39000ppm.											
22-Nov-16 23:00:00	40	10.5	168	31	68	100	6.5	4.00	8.0	39000	1.125	11048.5
22-Nov-16 23:15:00	40	10.4	169	31	68	100	6.5	4.00	8.0	39000	1.124	11048.9
22-Nov-16 23:30:00	40	10.4	172	31	69	100	6.5	4.00	8.0	39000	1.126	11049.4
22-Nov-16 23:45:00	40	10.4	173	31	69	100	6.5	4.00	8.0	39000	1.127	11049.9
23-Nov-16 00:00:00	40	10.5	168	30	68	100	6.5	4.00	8.0	39000	1.123	11050.3
23-Nov-16 00:15:00	40	10.5	169	30	68	100	6.5	4.00	8.0	39000	1.123	11050.8
23-Nov-16 00:30:00	40	10.4	167	31	68	100	6.5	4.00	8.0	39000	1.125	11051.3
23-Nov-16 00:45:00	40	10.4	166	31	68	100	6.5	4.00	8.0	39000	1.127	11051.7
23-Nov-16 01:00:00	40	10.5	168	31	68	100	6.5	4.00	8.0	39000	1.119	11052.2
23-Nov-16 01:15:00	40	10.6	168	31	68	100	6.5	4.00	8.0	39000	1.122	11052.6
23-Nov-16 01:30:00	40	10.6	170	31	68	100	6.5	4.00	8.0	39000	1.121	11053.1
23-Nov-16 01:45:00	40	10.4	167	31	68	100	6.5	4.00	8.0	39000	1.121	11053.6
23-Nov-16 02:00:00	Gas SG=0.642.											
23-Nov-16 02:00:00	40	10.5	165	30	68	100	6.5	4.00	8.0	39000	1.121	11054.0
23-Nov-16 02:15:00	40	10.4	164	30	68	100	6.5	4.00	8.0	39000	1.119	11054.5
23-Nov-16 02:30:00	40	10.5	165	30	68	100	6.5	4.00	8.0	39000	1.116	11054.9
23-Nov-16 02:45:00	40	10.4	165	30	68	100	6.5	4.00	8.0	39000	1.120	11055.4
23-Nov-16 03:00:00	40	10.5	169	30	68	100	6.5	4.00	8.0	39000	1.117	11055.9
23-Nov-16 03:15:00	40	10.5	165	30	68	100	6.5	4.00	8.0	39000	1.119	9873.4
23-Nov-16 03:30:00	40	10.5	165	30	68	100	6.5	4.00	8.0	39000	1.114	8690.9
23-Nov-16 03:45:00	40	10.4	163	30	67	100	6.5	4.00	8.0	39000	1.118	7508.4
23-Nov-16 04:00:00	40	10.5	165	30	68	100	6.5	4.00	8.0	39000	1.115	6326.0
23-Nov-16 04:15:00	40	10.5	166	30	68	100	6.5	4.00	8.0	39000	1.117	7509.6
23-Nov-16 04:30:00	40	10.5	169	30	68	100	6.5	4.00	8.0	39000	1.113	8693.2
23-Nov-16 04:45:00	40	10.6	165	31	67	100	6.5	4.00	8.0	39000	1.119	9876.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
23-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.13mS@23.6degC,Water Density=1013.2kg/m3@25.7DegC, Dissolved Oxygen=5.1%, Oxidation Reduction Potential=-210.3mV2, Salinity=40000ppm.											
23-Nov-16 05:00:00	40	10.6	165	30	68	100	6.5	4.00	8.0	40000	1.113	11060.5
23-Nov-16 05:15:00	40	10.6	165	30	66	100	6.5	4.00	8.0	40000	1.114	11060.9
23-Nov-16 05:30:00	40	10.5	166	30	68	100	6.5	4.00	8.0	40000	1.116	11061.4
23-Nov-16 05:45:00	40	10.6	165	30	67	100	6.5	4.00	8.0	40000	1.112	11061.8
23-Nov-16 06:00:00	40	10.5	166	30	68	100	6.5	4.00	8.0	40000	1.114	11062.3
23-Nov-16 06:15:00	40	10.6	169	30	68	100	6.5	4.00	8.0	40000	1.112	11062.8
23-Nov-16 06:30:00	40	10.6	166	30	68	100	6.5	4.00	8.0	40000	1.116	11063.2
23-Nov-16 06:45:00	40	10.4	166	30	68	100	6.5	4.00	8.0	40000	1.114	11063.7
23-Nov-16 07:00:00	40	10.6	166	30	68	100	6.5	4.00	8.0	40000	1.112	11064.1
23-Nov-16 07:15:00	40	10.6	163	30	67	100	6.5	4.00	8.0	40000	1.115	11064.5
23-Nov-16 07:25:00	Started raining at well site											
23-Nov-16 07:30:00	40	10.5	166	30	68	100	6.5	4.00	8.0	40000	1.110	11064.8
23-Nov-16 07:45:00	40	10.5	165	29	66	100	6.5	4.00	8.0	40000	1.114	11065.2
23-Nov-16 08:00:00	Gas SG=0.638.											
23-Nov-16 08:00:00	40	10.8	167	29	68	100	6.5	4.00	8.0	40000	1.107	11065.5
23-Nov-16 08:10:00	Pumped 58.8 bbls from tank to pond.											
23-Nov-16 08:15:00	40	10.6	167	29	68	100	6.5	4.00	8.0	40000	1.113	11065.9
23-Nov-16 08:30:00	40	10.7	164	28	68	100	6.5	4.00	8.0	40000	1.112	11066.2
23-Nov-16 08:45:00	40	11.3	167	28	68	100	6.5	4.00	8.0	40000	1.108	11066.5
23-Nov-16 09:00:00	40	11.4	167	30	68	100	6.5	4.00	8.0	40000	1.111	11066.9
23-Nov-16 09:15:00	40	10.6	163	30	67	100	6.5	4.00	8.0	40000	1.113	11067.2
23-Nov-16 09:30:00	40	10.4	165	31	67	100	6.5	4.00	8.0	40000	1.107	11067.6
23-Nov-16 09:45:00	40	10.5	166	31	68	100	6.5	4.00	8.0	40000	1.116	11067.9
23-Nov-16 10:00:00	40	10.4	165	31	68	100	6.5	4.00	8.0	40000	1.108	11068.3
23-Nov-16 10:15:00	40	10.4	165	31	68	100	6.5	4.00	8.0	40000	1.110	11069.0
23-Nov-16 10:30:00	40	10.4	169	31	68	100	6.5	4.00	8.0	40000	1.109	11069.7
23-Nov-16 10:45:00	40	10.4	167	31	67	100	6.5	4.00	8.0	40000	1.108	11070.3
23-Nov-16 11:00:00	Took ALS samples from Separator oil line. PH 6.2, EC=61.438m/s @ 27.6deg C, 11071bbls returned.											
23-Nov-16 11:00:00	BSW=100% no solids, H2S=9ppm, CO2=4.5%, Gas SG=0.638.											
23-Nov-16 11:00:00	Attempted to flush VX liquid port, found plugged.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=60.13mS@25.1degC,Water Density=1013.4kg/m3@27DegC, Dissolved Oxygen=5.0%, Oxidation Reduction Potential=-197mV2, Salinity=40000ppm.											
23-Nov-16 11:00:00	40	10.4	167	32	68	100	6.6	4.50	9.0	40000	1.108	11071.0
23-Nov-16 11:15:00	40	10.4	166	31	67	100	6.6	4.50	9.0	40000	1.106	11071.5
23-Nov-16 11:30:00	40	10.4	166	31	67	100	6.6	4.50	9.0	40000	1.107	11072.0
23-Nov-16 11:45:00	40	10.4	166	32	68	100	6.6	4.50	9.0	40000	1.108	11072.4
23-Nov-16 12:00:00	Un-plugged VX liquid port and flushed. Found approx. 90cc of sand.											
23-Nov-16 12:00:00	40	8.9	169	35	68	100	6.6	4.50	9.0	40000	1.106	11072.9
23-Nov-16 12:15:00	40	7.3	166	37	67	100	6.6	4.50	9.0	40000	1.109	11073.3
23-Nov-16 12:30:00	40	7.3	176	37	67	100	6.6	4.50	9.0	40000	1.108	11073.8
23-Nov-16 12:45:00	40	6.1	164	37	67	100	6.6	4.50	9.0	40000	1.112	11074.3
23-Nov-16 13:00:00	40	7.5	165	33	68	100	6.6	4.50	9.0	40000	1.108	11074.7
23-Nov-16 13:15:00	40	10.4	164	27	68	100	6.6	4.50	9.0	40000	1.106	11075.2
23-Nov-16 13:30:00	40	10.6	167	25	68	100	6.6	4.50	9.0	40000	1.108	11075.6
23-Nov-16 13:45:00	40	10.6	166	28	68	100	6.6	4.50	9.0	40000	1.105	11076.1
23-Nov-16 14:00:00	Gas SG=0.640.											
23-Nov-16 14:00:00	40	10.4	168	32	68	100	6.6	4.50	9.0	40000	1.107	11076.5
23-Nov-16 14:15:00	40	8.8	169	34	68	100	6.6	4.50	9.0	40000	1.102	11077.1
23-Nov-16 14:30:00	40	7.3	165	34	67	100	6.6	4.50	9.0	40000	1.105	11077.7
23-Nov-16 14:45:00	40	7.4	162	33	68	100	6.6	4.50	9.0	40000	1.105	11078.3
23-Nov-16 15:00:00	40	8.9	168	32	68	100	6.6	4.50	9.0	40000	1.101	11078.9
23-Nov-16 15:15:00	40	7.8	168	34	68	100	6.6	4.50	9.0	40000	1.103	11079.4
23-Nov-16 15:30:00	40	7.3	172	34	68	100	6.6	4.50	9.0	40000	1.103	11080.0
23-Nov-16 15:45:00	40	7.3	173	34	68	100	6.6	4.50	9.0	40000	1.107	11080.6
23-Nov-16 16:00:00	40	7.3	169	34	68	100	6.6	4.50	9.0	40000	1.105	11081.2
23-Nov-16 16:15:00	40	7.2	170	34	68	100	6.6	4.50	9.0	40000	1.104	11081.4
23-Nov-16 16:30:00	40	7.3	166	33	68	100	6.6	4.50	9.0	40000	1.105	11081.6
23-Nov-16 16:45:00	40	7.7	165	32	68	100	6.6	4.50	9.0	40000	1.102	11081.8
23-Nov-16 17:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.640.											
23-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=61.94mS@26.6degC,Water Density=1012.6kg/m3@27.5DegC, Dissolved Oxygen=4.9%, Oxidation Reduction Potential=-249mV2, Salinity=40000ppm.											
23-Nov-16 17:00:00	40	9.9	164	31	67	100	6.5	4.00	9.0	40000	1.103	11082.1
23-Nov-16 17:15:00	40	10.3	168	31	68	100	6.5	4.00	9.0	40000	1.097	11082.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Nov-16 17:30:00	40	10.4	165	31	68	100	6.5	4.00	9.0	40000	1.099	11083.0
23-Nov-16 17:45:00	40	10.4	165	31	68	100	6.5	4.00	9.0	40000	1.101	11083.5
23-Nov-16 18:00:00	40	10.4	167	30	68	100	6.5	4.00	9.0	40000	1.099	11083.9
23-Nov-16 18:15:00	40	10.4	167	30	68	100	6.5	4.00	9.0	40000	1.100	11084.4
23-Nov-16 18:30:00	40	10.6	167	29	68	100	6.5	4.00	9.0	40000	1.098	11084.8
23-Nov-16 18:45:00	40	10.5	167	30	68	100	6.5	4.00	9.0	40000	1.095	11085.3
23-Nov-16 19:00:00	40	10.6	164	30	68	100	6.5	4.00	9.0	40000	1.103	11085.8
23-Nov-16 19:15:00	40	10.5	166	30	68	100	6.5	4.00	9.0	40000	1.103	11086.3
23-Nov-16 19:30:00	40	10.4	163	30	68	100	6.5	4.00	9.0	40000	1.100	11086.9
23-Nov-16 19:42:00	Lifted 2.0" Orifice plate.											
23-Nov-16 19:42:00	End of MP.											
23-Nov-16 19:43:00	Switched to 40/64" adjustable choke.											
23-Nov-16 19:44:00	End of FP #4.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #5 EPT Flow - Data

Flow on 128/64" Adjustable Choke

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Nov-16 19:45:00	FP #5 Extended Production Test Flow on 128/64" Adjustable Choke.											
23-Nov-16 19:45:00	Increased to 44/64" adjustable choke.											
23-Nov-16 19:45:00	44	10.5	148	30	70	100	6.5	4.00	9.0	40000		11087.5
23-Nov-16 19:48:00	Increased to 48/64" adjustable choke.											
23-Nov-16 19:51:00	Increased to 52/64" adjustable choke.											
23-Nov-16 19:55:00	Increased to 56/64" adjustable choke.											
23-Nov-16 19:58:00	Increased to 60/64" adjustable choke.											
23-Nov-16 20:00:00	60	10.4	101	30	68	100	6.5	4.00	9.0	40000		11088.0
23-Nov-16 20:01:00	Increased to 64/64" adjustable choke.											
23-Nov-16 20:05:00	Increased to 68/64" adjustable choke.											
23-Nov-16 20:10:00	Increased to 76/64" adjustable choke.											
23-Nov-16 20:15:00	72	10.6	97	30	68	100	6.5	4.00	9.0	40000		11088.7
23-Nov-16 20:16:00	Increased to 84/64" adjustable choke.											
23-Nov-16 20:20:00	Increased to 100/64" adjustable choke.											
23-Nov-16 20:25:00	Increased to 128/64" adjustable choke.											
23-Nov-16 20:30:00	128	10.4	94	30	68	100	6.5	4.00	9.0	40000		11089.4
23-Nov-16 20:31:00	MP on 128/64" Adjustable Choke.											
23-Nov-16 20:31:00	Lowered 2.0" Orifice plate.											
23-Nov-16 20:45:00	128	10.5	94	30	70	100	6.5	4.00	9.0	40000	1.135	11090.1
23-Nov-16 21:00:00	128	10.7	96	30	71	100	6.5	4.00	9.0	40000	1.136	11090.8
23-Nov-16 21:15:00	128	10.4	98	30	71	100	6.5	4.00	9.0	40000	1.139	11091.2
23-Nov-16 21:30:00	128	10.6	95	30	69	100	6.5	4.00	9.0	40000	1.137	11091.5
23-Nov-16 21:45:00	128	12.2	97	30	71	100	6.5	4.00	9.0	40000	1.138	11091.8
23-Nov-16 22:00:00	128	13.4	93	29	70	100	6.5	4.00	9.0	40000	1.136	11092.2
23-Nov-16 22:15:00	128	13.5	96	29	71	100	6.5	4.00	9.0	40000	1.136	11092.7
23-Nov-16 22:30:00	128	13.4	93	29	69	100	6.5	4.00	9.0	40000	1.140	11093.1
23-Nov-16 22:45:00	128	13.5	95	29	69	100	6.5	4.00	9.0	40000	1.136	11093.6
23-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=3%, Gas SG=0.642.											
23-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=60.08mS@24.9degC,Water Density=1012.8kg/m3@26.9DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-233.4mV2, Salinity=40000ppm.											
23-Nov-16 23:00:00	128	13.5	96	29	71	100	6.5	3.00	7.0	40000	1.132	11094.0
23-Nov-16 23:15:00	128	13.6	95	30	70	100	6.5	3.00	7.0	40000	1.133	11094.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
23-Nov-16 23:30:00	128	13.6	97	30	71	100	6.5	3.00	7.0	40000	1.131	11095.0
23-Nov-16 23:45:00	128	13.4	98	29	71	100	6.5	3.00	7.0	40000	1.127	11095.4
24-Nov-16 00:00:00	128	13.6	98	30	71	100	6.5	3.00	7.0	40000	1.134	11095.9
24-Nov-16 00:15:00	128	13.6	96	30	70	100	6.5	3.00	7.0	40000	1.130	11096.4
24-Nov-16 00:30:00	128	13.6	96	30	71	100	6.5	3.00	7.0	40000	1.127	11097.0
24-Nov-16 00:45:00	128	13.6	97	30	71	100	6.5	3.00	7.0	40000	1.130	11097.6
24-Nov-16 01:00:00	128	13.5	97	29	71	100	6.5	3.00	7.0	40000	1.130	11098.2
24-Nov-16 01:15:00	128	13.6	99	29	72	100	6.5	3.00	7.0	40000	1.127	11098.7
24-Nov-16 01:30:00	128	13.6	96	29	71	100	6.5	3.00	7.0	40000	1.130	11099.3
24-Nov-16 01:45:00	128	13.6	97	29	71	100	6.5	3.00	7.0	40000	1.125	11099.9
24-Nov-16 02:00:00	Gas SG=0.642											
24-Nov-16 02:00:00	128	13.4	95	29	69	100	6.5	3.00	7.0	40000	1.128	11100.5
24-Nov-16 02:15:00	128	13.6	99	29	71	100	6.5	3.00	7.0	40000	1.117	11100.9
24-Nov-16 02:30:00	128	13.6	98	30	71	100	6.5	3.00	7.0	40000	1.134	11101.4
24-Nov-16 02:45:00	128	13.6	98	30	71	100	6.5	3.00	7.0	40000	1.124	11101.9
24-Nov-16 03:00:00	128	13.6	95	29	71	100	6.5	3.00	7.0	40000	1.129	11102.3
24-Nov-16 03:15:00	128	13.6	98	29	71	100	6.5	3.00	7.0	40000	1.118	11102.9
24-Nov-16 03:30:00	128	13.6	98	29	71	100	6.5	3.00	7.0	40000	1.126	11103.5
24-Nov-16 03:45:00	128	13.6	99	29	72	100	6.5	3.00	7.0	40000	1.126	11104.0
24-Nov-16 04:00:00	128	13.6	97	29	71	100	6.5	3.00	7.0	40000	1.130	11104.6
24-Nov-16 04:15:00	128	13.5	96	30	70	100	6.5	3.00	7.0	40000	1.123	11105.2
24-Nov-16 04:30:00	128	13.6	98	30	69	100	6.5	3.00	7.0	40000	1.123	11105.8
24-Nov-16 04:45:00	128	13.6	98	27	71	100	6.5	3.00	7.0	40000	1.121	11106.3
24-Nov-16 05:00:00	BSW=100% no solids, H2S=5ppm, CO2=3%, Gas SG=0.642.											
24-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.92mS@24.2degC,Water Density=1013.2kg/m3@26.2DegC, Dissolved Oxygen=3.2%, Oxidation Reduction Potential=-235.6mV2, Salinity=40000ppm.											
24-Nov-16 05:00:00	128	13.6	97	28	71	100	6.5	3.00	5.0	40000	1.121	11106.9
24-Nov-16 05:15:00	128	13.6	98	28	71	100	6.5	3.00	5.0	40000	1.123	11107.4
24-Nov-16 05:30:00	128	13.6	98	28	71	100	6.5	3.00	5.0	40000	1.118	11107.9
24-Nov-16 05:45:00	128	13.6	98	28	71	100	6.5	3.00	5.0	40000	1.122	11108.5
24-Nov-16 06:00:00	Discussed with client, informed them that at current choke size we are out of critical flow.											
24-Nov-16 06:00:00	128	13.6	97	26	71	100	6.5	3.00	5.0	40000	1.122	11109.0
24-Nov-16 06:15:00	128	13.6	96	22	70	100	6.5	3.00	5.0	40000	1.120	11109.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
24-Nov-16 06:24:00	Lifted 2.0" Orifice plate.											
24-Nov-16 06:24:00	End of MP.											
24-Nov-16 06:25:00	Lowered Separator GasP from 64psia to 38psia.											
24-Nov-16 06:26:00	Upstream choke pressure dropped with Separator pressure, confirming choke ineffective.											
24-Nov-16 06:30:00	128	13.6	72	22	41	100	6.5	3.00	5.0	40000		11110.0
24-Nov-16 06:45:00	128	13.6	73	23	41	100	6.5	3.00	5.0	40000		11110.5
24-Nov-16 07:00:00	128	13.6	72	23	41	100	6.5	3.00	5.0	40000		11111.0
24-Nov-16 07:13:00	End of FP #5.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #6 EPT Flow - Data

Flow on 48/64" Fixed Choke

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
24-Nov-16 07:14:00	FP #6 Extended Production Test Flow on 48/64" Fixed Choke.											
24-Nov-16 07:14:00	Started choking back to 48/64" adjustable choke.											
24-Nov-16 07:14:00	48	13.6	72	24	41	100	6.5	3.00	5.0	40000		11111.5
24-Nov-16 07:15:00	48	13.6	75	24	44	100	6.5	3.00	5.0	40000		11111.6
24-Nov-16 07:28:00	Choke at 48/64" adjustable.											
24-Nov-16 07:30:00	48	13.6	108	25	44	100	6.5	3.00	5.0	40000		11112.1
24-Nov-16 07:45:00	48	13.6	112	24	44	100	6.5	3.00	5.0	40000		11112.6
24-Nov-16 08:00:00	Gas SG=0.642											
24-Nov-16 08:00:00	48	13.6	110	25	44	100	6.5	3.00	5.0	40000		11113.1
24-Nov-16 08:15:00	48	13.5	113	26	44	100	6.5	3.00	5.0	40000		11113.6
24-Nov-16 08:30:00	48	13.6	111	26	44	100	6.5	3.00	5.0	40000		11114.2
24-Nov-16 08:45:00	48	13.6	114	28	44	100	6.5	3.00	5.0	40000		11114.7
24-Nov-16 09:00:00	48	13.6	115	28	44	100	6.5	3.00	5.0	40000		11115.2
24-Nov-16 09:15:00	48	13.4	116	29	44	100	6.5	3.00	5.0	40000		11115.8
24-Nov-16 09:30:00	Installed 48/64" fixed choke bean.											
24-Nov-16 09:30:00	48	13.5	115	29	44	100	6.5	3.00	5.0	40000		11116.3
24-Nov-16 09:40:00	Switched to 48/64" fixed choke.											
24-Nov-16 09:45:00	48	13.5	125	29	44	100	6.5	3.00	5.0	40000		11116.9
24-Nov-16 10:00:00	48	13.4	131	29	44	100	6.5	3.00	5.0	40000		11117.5
24-Nov-16 10:10:00	MP on 48/64" Fixed Choke.											
24-Nov-16 10:10:00	Lowered 2.0" Orifice plate.											
24-Nov-16 10:15:00	48	11.7	124	30	46	100	6.5	3.00	5.0	40000	1.098	11118.1
24-Nov-16 10:30:00	48	10.4	133	31	46	100	6.5	3.00	5.0	40000	1.100	11118.6
24-Nov-16 10:45:00	48	10.2	127	32	46	100	6.5	3.00	5.0	40000	1.100	11119.2
24-Nov-16 11:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.638.											
24-Nov-16 11:00:00	48	10.2	131	31	46	100	6.6	4.00	9.0	40000	1.103	11119.8
24-Nov-16 11:00:01	Water sample from VX: pH=6.6, Electrical Conductivity=63.07mS@27.3degC,Water Density=1012kg/m3@28DegC, Dissolved Oxygen=3.6%, Oxidation Reduction Potential=-183.3mV2, Salinity=40000ppm.											
24-Nov-16 11:10:00	Pumped 55.5 bbls from tank to pond.											
24-Nov-16 11:12:00	Flushed VX liquid port, found 230cc of sand.											
24-Nov-16 11:15:00	48	10.4	128	32	46	100	6.6	4.00	9.0	40000	1.105	11120.3
24-Nov-16 11:30:00	48	10.2	129	32	46	100	6.6	4.00	9.0	40000	1.102	11120.7
24-Nov-16 11:45:00	48	10.2	129	33	46	100	6.6	4.00	9.0	40000	1.104	11121.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
24-Nov-16 12:00:00	48	10.2	130	32	46	100	6.6	4.00	9.0	40000	1.099	11121.6
24-Nov-16 12:15:00	48	10.2	127	33	46	100	6.6	4.00	9.0	40000	1.104	11122.1
24-Nov-16 12:30:00	48	8.3	132	33	47	100	6.6	4.00	9.0	40000	1.111	11122.5
24-Nov-16 12:45:00	48	7.3	127	34	46	100	6.6	4.00	9.0	40000	1.101	11123.0
24-Nov-16 13:00:00	48	7.3	130	34	46	100	6.6	4.00	9.0	40000	1.104	11123.5
24-Nov-16 13:15:00	48	7.3	130	34	46	100	6.6	4.00	9.0	40000	1.110	11123.9
24-Nov-16 13:30:00	48	7.3	130	35	46	100	6.6	4.00	9.0	40000	1.106	11124.4
24-Nov-16 13:45:00	48	7.3	134	34	47	100	6.6	4.00	9.0	40000	1.102	11124.9
24-Nov-16 14:00:00	Gas SG=0.640.											
24-Nov-16 14:00:00	48	7.2	129	35	46	100	6.6	4.00	9.0	40000	1.104	11125.3
24-Nov-16 14:15:00	48	7.3	130	35	46	100	6.6	4.00	9.0	40000	1.099	11125.8
24-Nov-16 14:30:00	48	7.3	131	36	46	100	6.6	4.00	9.0	40000	1.104	11126.2
24-Nov-16 14:45:00	48	7.1	130	35	46	100	6.6	4.00	9.0	40000	1.099	11126.7
24-Nov-16 15:00:00	48	7.2	130	35	46	100	6.6	4.00	9.0	40000	1.104	11127.2
24-Nov-16 15:15:00	48	7.3	132	35	46	100	6.6	4.00	9.0	40000	1.099	11127.6
24-Nov-16 15:30:00	48	7.3	127	35	46	100	6.6	4.00	9.0	40000	1.108	11128.1
24-Nov-16 15:45:00	48	7.3	132	35	48	100	6.6	4.00	9.0	40000	1.101	11128.5
24-Nov-16 16:00:00	48	7.3	127	35	46	100	6.6	4.00	9.0	40000	1.102	11129.0
24-Nov-16 16:15:00	48	7.3	132	33	47	100	6.6	4.00	9.0	40000	1.104	11129.2
24-Nov-16 16:30:00	48	7.4	131	32	48	100	6.6	4.00	9.0	40000	1.103	11129.5
24-Nov-16 16:45:00	48	7.7	130	32	46	100	6.6	4.00	9.0	40000	1.101	11129.7
24-Nov-16 17:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.642.											
24-Nov-16 17:00:00	48	10.4	131	31	47	100	6.5	4.00	9.0	41000	1.107	11129.9
24-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=65.24mS@28.4degC,Water Density=1012.4kg/m3@30DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-216mV2, Salinity=41000ppm.											
24-Nov-16 17:15:00	48	10.4	128	30	46	100	6.5	4.00	9.0	41000	1.103	11130.5
24-Nov-16 17:30:00	48	10.4	127	31	46	100	6.5	4.00	9.0	41000	1.099	11131.1
24-Nov-16 17:45:00	48	10.4	130	31	46	100	6.5	4.00	9.0	41000	1.097	11131.6
24-Nov-16 18:00:00	48	10.4	132	31	47	100	6.5	4.00	9.0	41000	1.096	11132.2
24-Nov-16 18:15:00	48	10.4	128	31	46	100	6.5	4.00	9.0	41000	1.101	11132.6
24-Nov-16 18:30:00	48	10.4	136	31	47	100	6.5	4.00	9.0	41000	1.094	11132.9
24-Nov-16 18:45:00	48	10.4	130	31	47	100	6.5	4.00	9.0	41000	1.105	11133.2
24-Nov-16 19:00:00	48	10.4	129	31	46	100	6.5	4.00	9.0	41000	1.095	11133.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
24-Nov-16 19:15:00	48	10.6	129	31	46	100	6.5	4.00	9.0	41000	1.099	11133.9
24-Nov-16 19:30:00	48	10.5	129	30	46	100	6.5	4.00	9.0	41000	1.096	11134.3
24-Nov-16 19:45:00	48	10.5	131	30	47	100	6.5	4.00	9.0	41000	1.099	11134.6
24-Nov-16 20:00:00	Gas SG=0.642											
24-Nov-16 20:00:00	48	10.5	132	30	47	100	6.5	4.00	9.0	41000	1.101	11135.0
24-Nov-16 20:15:00	48	10.4	129	30	46	100	6.5	4.00	9.0	41000	1.099	11135.5
24-Nov-16 20:30:00	48	10.6	130	30	47	100	6.5	4.00	9.0	41000	1.100	11136.1
24-Nov-16 20:45:00	48	10.6	131	30	48	100	6.5	4.00	9.0	41000	1.098	11136.7
24-Nov-16 21:00:00	48	10.6	129	30	47	100	6.5	4.00	9.0	41000	1.097	11137.3
24-Nov-16 21:15:00	48	10.6	130	30	47	100	6.5	4.00	9.0	41000	1.097	11137.8
24-Nov-16 21:30:00	48	10.6	125	30	46	100	6.5	4.00	9.0	41000	1.100	11138.4
24-Nov-16 21:45:00	48	10.6	131	30	47	100	6.5	4.00	9.0	41000	1.098	11139.0
24-Nov-16 22:00:00	48	10.6	127	30	46	100	6.5	4.00	9.0	41000	1.100	11139.6
24-Nov-16 22:15:00	48	10.6	134	30	47	100	6.5	4.00	9.0	41000	1.097	11140.0
24-Nov-16 22:30:00	48	10.6	131	30	47	100	6.5	4.00	9.0	41000	1.102	11140.5
24-Nov-16 22:45:00	48	10.6	130	30	47	100	6.5	4.00	9.0	41000	1.100	11141.0
24-Nov-16 23:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.642.											
24-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.87mS@22degC,Water Density=1014.7kg/m3@24.3DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-215.5mV2, Salinity=42000ppm.											
24-Nov-16 23:00:00	48	10.6	134	30	47	100	6.5	4.00	9.0	42000	1.098	11141.4
24-Nov-16 23:15:00	48	10.5	129	30	46	100	6.5	4.00	9.0	42000	1.103	11141.9
24-Nov-16 23:30:00	48	10.6	130	30	46	100	6.5	4.00	9.0	42000	1.095	11142.3
24-Nov-16 23:45:00	48	10.6	130	30	47	100	6.5	4.00	9.0	42000	1.104	11142.8
25-Nov-16 00:00:00	48	10.6	130	30	46	100	6.5	4.00	9.0	42000	1.097	11143.3
25-Nov-16 00:15:00	48	10.5	128	30	46	100	6.5	4.00	9.0	42000	1.099	11143.7
25-Nov-16 00:30:00	48	10.5	133	30	47	100	6.5	4.00	9.0	42000	1.097	11144.2
25-Nov-16 00:45:00	48	10.6	131	30	46	100	6.5	4.00	9.0	42000	1.101	11144.6
25-Nov-16 01:00:00	48	10.5	130	30	46	100	6.5	4.00	9.0	42000	1.099	11145.1
25-Nov-16 01:15:00	48	10.5	129	30	46	100	6.5	4.00	9.0	42000	1.101	11145.6
25-Nov-16 01:30:00	48	10.6	131	29	47	100	6.5	4.00	9.0	42000	1.100	11146.0
25-Nov-16 01:45:00	48	10.6	129	29	46	100	6.5	4.00	9.0	42000	1.097	11146.5
25-Nov-16 02:00:00	Gas SG=0.642											
25-Nov-16 02:00:00	48	10.6	133	29	47	100	6.5	4.00	9.0	42000	1.095	11146.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
25-Nov-16 02:15:00	48	13.3	130	30	46	100	6.5	4.00	9.0	42000	1.097	11147.4
25-Nov-16 02:30:00	48	13.4	129	30	47	100	6.5	4.00	9.0	42000	1.097	11147.9
25-Nov-16 02:45:00	48	13.4	131	30	47	100	6.5	4.00	9.0	42000	1.102	11148.3
25-Nov-16 03:00:00	48	13.5	131	30	47	100	6.5	4.00	9.0	42000	1.098	11148.8
25-Nov-16 03:15:00	48	13.4	127	29	46	100	6.5	4.00	9.0	42000	1.101	11149.2
25-Nov-16 03:30:00	48	13.6	128	30	46	100	6.5	4.00	9.0	42000	1.097	11149.7
25-Nov-16 03:45:00	48	13.6	131	30	47	100	6.5	4.00	9.0	42000	1.096	11150.2
25-Nov-16 04:00:00	48	13.6	129	30	46	100	6.5	4.00	9.0	42000	1.099	11150.6
25-Nov-16 04:15:00	48	13.6	129	30	47	100	6.5	4.00	9.0	42000	1.104	11151.1
25-Nov-16 04:30:00	48	13.3	129	30	46	100	6.5	4.00	9.0	42000	1.100	11151.5
25-Nov-16 04:45:00	48	13.4	129	30	46	100	6.5	4.00	9.0	42000	1.097	11152.0
25-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
25-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.32mS@22.1degC,Water Density=1014.3kg/m3@24.1DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-205.7mV2, Salinity=41000ppm.											
25-Nov-16 05:00:00	48	12.9	132	30	47	100	6.5	4.00	8.0	41000	1.097	11152.5
25-Nov-16 05:15:00	48	13.4	128	30	46	100	6.5	4.00	8.0	41000	1.102	11152.9
25-Nov-16 05:30:00	48	12.7	126	30	46	100	6.5	4.00	8.0	41000	1.098	11153.4
25-Nov-16 05:45:00	48	13.6	128	30	46	100	6.5	4.00	8.0	41000	1.096	11153.8
25-Nov-16 06:00:00	48	12.9	128	30	46	100	6.5	4.00	8.0	41000	1.098	11154.3
25-Nov-16 06:15:00	48	13.2	129	30	47	100	6.5	4.00	8.0	41000	1.100	11154.9
25-Nov-16 06:30:00	48	13.4	127	30	46	100	6.5	4.00	8.0	41000	1.100	11155.4
25-Nov-16 06:45:00	48	11.4	128	30	46	100	6.5	4.00	8.0	41000	1.096	11156.0
25-Nov-16 07:00:00	48	11.2	131	30	47	100	6.5	4.00	8.0	41000	1.100	11156.6
25-Nov-16 07:15:00	48	10.4	130	30	46	100	6.5	4.00	8.0	41000	1.097	11156.9
25-Nov-16 07:30:00	48	10.4	129	31	46	100	6.5	4.00	8.0	41000	1.096	11157.3
25-Nov-16 07:45:00	48	10.4	131	30	46	100	6.5	4.00	8.0	41000	1.101	11157.6
25-Nov-16 08:00:00	Gas SG=0.638.											
25-Nov-16 08:00:00	48	10.4	132	30	47	100	6.5	4.00	8.0	41000	1.098	11158.0
25-Nov-16 08:15:00	48	10.4	130	31	46	100	6.5	4.00	8.0	41000	1.103	11158.5
25-Nov-16 08:30:00	48	10.4	129	31	46	100	6.5	4.00	8.0	41000	1.097	11159.1
25-Nov-16 08:45:00	48	10.2	129	32	46	100	6.5	4.00	8.0	41000	1.103	11159.7
25-Nov-16 09:00:00	48	10.2	132	32	46	100	6.5	4.00	8.0	41000	1.098	11160.3
25-Nov-16 09:15:00	48	10.4	132	32	46	100	6.5	4.00	8.0	41000	1.101	11160.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
25-Nov-16 09:30:00	48	10.3	133	32	46	100	6.5	4.00	8.0	41000	1.105	11161.2
25-Nov-16 09:45:00	48	9.6	133	33	46	100	6.5	4.00	8.0	41000	1.100	11161.7
25-Nov-16 10:00:00	48	7.3	132	34	46	100	6.5	4.00	8.0	41000	1.100	11162.1
25-Nov-16 10:15:00	48	7.3	134	35	47	100	6.5	4.00	8.0	41000	1.102	11162.5
25-Nov-16 10:30:00	48	7.3	132	36	46	100	6.5	4.00	8.0	41000	1.107	11162.8
25-Nov-16 10:45:00	48	7.2	132	37	46	100	6.5	4.00	8.0	41000	1.105	11163.1
25-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
25-Nov-16 11:00:00	48	7.3	131	37	46	100	6.6	4.00	8.0	41000	1.102	11163.5
25-Nov-16 11:00:01	Water sample from VX: pH=6.6, Electrical Conductivity=68.03mS@30.5degC,Water Density=1012kg/m3@31DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-226mV2, Salinity=41000ppm.											
25-Nov-16 11:10:00	Flushed VX liquid port, found 10cc of sand.											
25-Nov-16 11:15:00	48	7.3	131	37	46	100	6.6	4.00	8.0	41000	1.107	11164.0
25-Nov-16 11:30:00	48	7.3	131	38	46	100	6.6	4.00	8.0	41000	1.100	11164.4
25-Nov-16 11:45:00	48	7.3	133	38	46	100	6.6	4.00	8.0	41000	1.099	11164.9
25-Nov-16 12:00:00	48	7.0	131	38	46	100	6.6	4.00	8.0	41000	1.096	11165.3
25-Nov-16 12:15:00	48	6.6	130	37	46	100	6.6	4.00	8.0	41000	1.102	11165.7
25-Nov-16 12:30:00	48	6.4	133	35	47	100	6.6	4.00	8.0	41000	1.097	11166.0
25-Nov-16 12:45:00	48	7.3	132	35	46	100	6.6	4.00	8.0	41000	1.094	11166.4
25-Nov-16 13:00:00	48	7.3	134	36	47	100	6.6	4.00	8.0	41000	1.097	11166.7
25-Nov-16 13:15:00	48	7.3	136	38	48	100	6.6	4.00	8.0	41000	1.099	11167.4
25-Nov-16 13:30:00	48	7.4	131	35	46	100	6.6	4.00	8.0	41000	1.096	11168.1
25-Nov-16 13:45:00	48	7.5	132	34	47	100	6.6	4.00	8.0	41000	1.098	11168.8
25-Nov-16 14:00:00	Gas SG=0.640.											
25-Nov-16 14:00:00	48	7.5	129	35	46	100	6.6	4.00	8.0	41000	1.099	11169.5
25-Nov-16 14:15:00	48	7.5	132	35	46	100	6.6	4.00	8.0	41000	1.093	11169.8
25-Nov-16 14:30:00	48	7.5	131	36	46	100	6.6	4.00	8.0	41000	1.094	11170.2
25-Nov-16 14:45:00	48	7.3	133	37	46	100	6.6	4.00	8.0	41000	1.097	11170.5
25-Nov-16 15:00:00	48	7.3	134	35	46	100	6.6	4.00	8.0	41000	1.094	11170.9
25-Nov-16 15:15:00	48	7.5	129	35	46	100	6.6	4.00	8.0	41000	1.099	11171.2
25-Nov-16 15:30:00	48	7.3	136	36	47	100	6.6	4.00	8.0	41000	1.094	11171.5
25-Nov-16 15:45:00	48	7.2	130	37	46	100	6.6	4.00	8.0	41000	1.104	11171.9
25-Nov-16 16:00:00	48	4.3	133	37	48	100	6.6	4.00	8.0	41000	1.094	11172.2
25-Nov-16 16:15:00	48	4.3	135	37	48	100	6.6	4.00	8.0	41000	1.095	11172.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
25-Nov-16 16:30:00	48	7.2	131	36	48	100	6.6	4.00	8.0	41000	1.097	11173.4
25-Nov-16 16:45:00	48	7.3	136	36	48	100	6.6	4.00	8.0	41000	1.093	11174.0
25-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
25-Nov-16 17:00:00	48	4.9	131	36	47	100	6.5	4.00	8.0	40000	1.096	11174.5
25-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=68.19mS@31.9degC,Water Density=1010.5kg/m3@32.5DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-231mV2, Salinity=40000ppm.											
25-Nov-16 17:10:00	Pumped 52 bbls from tank to pond.											
25-Nov-16 17:15:00	48	7.3	133	36	48	100	6.5	4.00	8.0	40000	1.090	11174.9
25-Nov-16 17:30:00	48	6.7	134	35	48	100	6.5	4.00	8.0	40000	1.093	11175.2
25-Nov-16 17:45:00	48	7.5	133	34	47	100	6.5	4.00	8.0	40000	1.097	11175.6
25-Nov-16 18:00:00	48	7.5	133	34	48	100	6.5	4.00	8.0	40000	1.091	11175.9
25-Nov-16 18:15:00	48	7.5	130	33	48	100	6.5	4.00	8.0	40000	1.094	11176.3
25-Nov-16 18:30:00	48	7.5	131	33	48	100	6.5	4.00	8.0	40000	1.085	11176.6
25-Nov-16 18:45:00	48	7.7	133	33	47	100	6.5	4.00	8.0	40000	1.094	11176.9
25-Nov-16 19:00:00	48	7.6	131	32	48	100	6.5	4.00	8.0	40000	1.089	11177.3
25-Nov-16 19:15:00	48	7.8	130	32	48	100	6.5	4.00	8.0	40000	1.096	11177.6
25-Nov-16 19:30:00	48	10.0	131	32	47	100	6.5	4.00	8.0	40000	1.091	11178.0
25-Nov-16 19:45:00	48	10.6	131	31	48	100	6.5	4.00	8.0	40000	1.093	11178.3
25-Nov-16 20:00:00	Gas SG=0.642.											
25-Nov-16 20:00:00	48	10.6	131	31	47	100	6.5	4.00	8.0	40000	1.093	11178.7
25-Nov-16 20:15:00	48	10.6	128	31	47	100	6.5	4.00	8.0	40000	1.090	11179.0
25-Nov-16 20:30:00	48	10.6	131	31	48	100	6.5	4.00	8.0	40000	1.085	11179.4
25-Nov-16 20:45:00	48	10.6	132	31	47	100	6.5	4.00	8.0	40000	1.092	11179.7
25-Nov-16 21:00:00	48	10.6	130	31	48	100	6.5	4.00	8.0	40000	1.091	11180.0
25-Nov-16 21:15:00	48	10.6	130	31	47	100	6.5	4.00	8.0	40000	1.089	11180.6
25-Nov-16 21:30:00	48	10.6	131	31	47	100	6.5	4.00	8.0	40000	1.093	11181.2
25-Nov-16 21:45:00	48	10.5	132	31	47	100	6.5	4.00	8.0	40000	1.095	11181.8
25-Nov-16 22:00:00	48	10.6	128	31	46	100	6.5	4.00	8.0	40000	1.083	11182.4
25-Nov-16 22:15:00	48	10.6	135	31	47	100	6.5	4.00	8.0	40000	1.088	11182.9
25-Nov-16 22:30:00	48	10.4	132	31	47	100	6.5	4.00	8.0	40000	1.091	11183.5
25-Nov-16 22:45:00	48	10.4	132	31	47	100	6.5	4.00	8.0	40000	1.090	11184.1
25-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
25-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=60.59mS@24.5degC,Water Density=1013.1kg/m3@26.6DegC, Dissolved Oxygen=5.1%, Oxidation Reduction Potential=-229.1mV2, Salinity=41000ppm.											
25-Nov-16 23:00:00	48	10.5	129	30	47	100	6.5	4.00	8.0	41000	1.089	11184.7
25-Nov-16 23:15:00	48	10.6	130	30	47	100	6.5	4.00	8.0	41000	1.088	11185.1
25-Nov-16 23:30:00	48	10.6	134	30	47	100	6.5	4.00	8.0	41000	1.091	11185.6
25-Nov-16 23:45:00	48	10.5	127	30	48	100	6.5	4.00	8.0	41000	1.086	11186.0
26-Nov-16 00:00:00	48	10.6	136	30	48	100	6.5	4.00	8.0	41000	1.089	11186.5
26-Nov-16 00:15:00	48	10.6	130	30	47	100	6.5	4.00	8.0	41000	1.091	11187.0
26-Nov-16 00:30:00	48	10.6	130	30	47	100	6.5	4.00	8.0	41000	1.086	11187.4
26-Nov-16 00:45:00	48	10.6	131	30	47	100	6.5	4.00	8.0	41000	1.087	11187.9
26-Nov-16 01:00:00	48	10.6	133	30	47	100	6.5	4.00	8.0	41000	1.083	11188.3
26-Nov-16 01:15:00	48	10.6	132	30	47	100	6.5	4.00	8.0	41000	1.090	11188.8
26-Nov-16 01:30:00	48	10.6	131	30	47	100	6.5	4.00	8.0	41000	1.090	11189.3
26-Nov-16 01:45:00	48	10.6	133	30	47	100	6.5	4.00	8.0	41000	1.085	11189.7
26-Nov-16 02:00:00	Gas SG=0.642.											
26-Nov-16 02:00:00	48	10.6	132	30	47	100	6.5	4.00	8.0	41000	1.086	11190.2
26-Nov-16 02:15:00	48	10.6	132	30	47	100	6.5	4.00	8.0	41000	1.087	11190.6
26-Nov-16 02:30:00	48	10.6	129	30	47	100	6.5	4.00	8.0	41000	1.093	11191.1
26-Nov-16 02:45:00	48	10.6	130	30	47	100	6.5	4.00	8.0	41000	1.090	11191.6
26-Nov-16 03:00:00	48	10.6	131	30	47	100	6.5	4.00	8.0	41000	1.090	11192.0
26-Nov-16 03:15:00	48	10.6	131	30	47	100	6.5	4.00	8.0	41000	1.087	11192.5
26-Nov-16 03:30:00	48	10.8	134	30	48	100	6.5	4.00	8.0	41000	1.098	11192.9
26-Nov-16 03:45:00	48	10.6	129	30	47	100	6.5	4.00	8.0	41000	1.083	11193.4
26-Nov-16 04:00:00	48	10.6	133	30	47	100	6.5	4.00	8.0	41000	1.092	11193.9
26-Nov-16 04:15:00	48	12.6	133	30	47	100	6.5	4.00	8.0	41000	1.086	11194.3
26-Nov-16 04:30:00	48	12.5	131	30	47	100	6.5	4.00	8.0	41000	1.094	11194.8
26-Nov-16 04:45:00	48	10.6	133	30	47	100	6.5	4.00	8.0	41000	1.083	11195.2
26-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
26-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.17mS@24.1degC,Water Density=1012.2kg/m3@26.3DegC, Dissolved Oxygen=4.6%, Oxidation Reduction Potential=-235.7mV2, Salinity=40000ppm.											
26-Nov-16 05:00:00	48	10.6	132	30	47	100	6.5	4.00	8.0	40000	1.092	11195.7
26-Nov-16 05:15:00	48	10.6	131	30	47	100	6.5	4.00	8.0	40000	1.085	11196.4
26-Nov-16 05:30:00	48	10.6	128	30	47	100	6.5	4.00	8.0	40000	1.093	11197.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
26-Nov-16 05:45:00	48	10.6	132	30	47	100	6.5	4.00	8.0	40000	1.085	11197.8
26-Nov-16 06:00:00	48	10.6	131	30	47	100	6.5	4.00	8.0	40000	1.085	11198.5
26-Nov-16 06:15:00	48	10.6	133	30	47	100	6.5	4.00	8.0	40000	1.088	11198.8
26-Nov-16 06:30:00	48	10.4	131	30	47	100	6.5	4.00	8.0	40000	1.091	11199.1
26-Nov-16 06:45:00	48	10.6	130	30	47	100	6.5	4.00	8.0	40000	1.085	11199.5
26-Nov-16 07:00:00	48	10.5	130	30	47	100	6.5	4.00	8.0	40000	1.088	11199.8
26-Nov-16 07:15:00	48	10.6	128	31	46	100	6.5	4.00	8.0	40000	1.087	11200.3
26-Nov-16 07:30:00	48	10.6	132	31	47	100	6.5	4.00	8.0	40000	1.088	11200.8
26-Nov-16 07:45:00	48	10.4	134	31	47	100	6.5	4.00	8.0	40000	1.090	11201.2
26-Nov-16 08:00:00	Gas SG=0.638.											
26-Nov-16 08:00:00	48	10.4	131	31	47	100	6.5	4.00	8.0	40000	1.085	11201.7
26-Nov-16 08:15:00	48	10.4	132	32	47	100	6.5	4.00	8.0	40000	1.094	11202.0
26-Nov-16 08:30:00	48	10.4	134	32	47	100	6.5	4.00	8.0	40000	1.096	11202.4
26-Nov-16 08:45:00	48	10.3	133	32	47	100	6.5	4.00	8.0	40000	1.096	11202.7
26-Nov-16 09:00:00	48	9.6	132	33	46	100	6.5	4.00	8.0	40000	1.090	11203.0
26-Nov-16 09:15:00	48	7.3	134	34	47	100	6.5	4.00	8.0	40000	1.097	11203.6
26-Nov-16 09:30:00	48	7.3	132	33	48	100	6.5	4.00	8.0	40000	1.096	11204.2
26-Nov-16 09:45:00	48	7.1	131	33	47	100	6.5	4.00	8.0	40000	1.100	11204.8
26-Nov-16 10:00:00	48	7.3	133	33	47	100	6.5	4.00	8.0	40000	1.090	11205.4
26-Nov-16 10:15:00	48	7.3	131	34	46	100	6.5	4.00	8.0	40000	1.097	11205.7
26-Nov-16 10:30:00	48	7.3	132	34	46	100	6.5	4.00	8.0	40000	1.090	11206.0
26-Nov-16 10:45:00	48	7.3	135	35	47	100	6.5	4.00	8.0	40000	1.096	11206.4
26-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
26-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.36mS@30.5degC,Water Density=1012.2kg/m3@31DegC, Dissolved Oxygen=2.7%, Oxidation Reduction Potential=-205.3mV2, Salinity=41000ppm.											
26-Nov-16 11:00:00	48	7.1	133	37	47	100	6.6	4.00	8.0	41000	1.093	11206.7
26-Nov-16 11:00:01	Flushed VX liquid port, found 5cc of sand.											
26-Nov-16 11:10:00	Took ALS sample bottles from Separator oil line, pH=6.3, EC=66.7m/S@29.6deg C, 11207 bbls returned.											
26-Nov-16 11:15:00	48	7.2	137	38	48	100	6.6	4.00	8.0	41000	1.088	11207.1
26-Nov-16 11:30:00	48	7.2	133	38	48	100	6.6	4.00	8.0	41000	1.096	11207.4
26-Nov-16 11:45:00	48	7.1	131	37	48	100	6.6	4.00	8.0	41000	1.095	11207.8
26-Nov-16 12:00:00	48	7.1	133	38	48	100	6.6	4.00	8.0	41000	1.092	11208.1
26-Nov-16 12:15:00	48	7.3	134	38	48	100	6.6	4.00	8.0	41000	1.092	11208.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
26-Nov-16 12:30:00	48	7.3	134	39	48	100	6.6	4.00	8.0	41000	1.095	11209.0
26-Nov-16 12:45:00	48	7.0	134	39	47	100	6.6	4.00	8.0	41000	1.093	11209.5
26-Nov-16 13:00:00	48	6.7	132	39	47	100	6.6	4.00	8.0	41000	1.093	11210.0
26-Nov-16 13:15:00	48	4.3	132	39	47	100	6.6	4.00	8.0	41000	1.096	11210.3
26-Nov-16 13:30:00	48	5.6	135	40	48	100	6.6	4.00	8.0	41000	1.091	11210.6
26-Nov-16 13:45:00	48	5.3	135	40	48	100	6.6	4.00	8.0	41000	1.102	11211.0
26-Nov-16 14:00:00	Gas SG=0.638.											
26-Nov-16 14:00:00	48	4.4	131	39	48	100	6.6	4.00	8.0	41000	1.095	11211.3
26-Nov-16 14:15:00	48	4.3	131	39	48	100	6.6	4.00	8.0	41000	1.100	11211.7
26-Nov-16 14:30:00	48	4.5	134	40	47	100	6.6	4.00	8.0	41000	1.096	11212.0
26-Nov-16 14:45:00	48	4.5	132	40	48	100	6.6	4.00	8.0	41000	1.097	11212.4
26-Nov-16 15:00:00	48	4.5	132	40	48	100	6.6	4.00	8.0	41000	1.096	11212.7
26-Nov-16 15:15:00	48	4.5	131	39	48	100	6.6	4.00	8.0	41000	1.100	11213.3
26-Nov-16 15:30:00	48	4.5	132	39	48	100	6.6	4.00	8.0	41000	1.092	11213.9
26-Nov-16 15:45:00	48	4.5	139	39	49	100	6.6	4.00	8.0	41000	1.100	11214.4
26-Nov-16 16:00:00	48	4.5	133	38	49	100	6.6	4.00	8.0	41000	1.102	11215.0
26-Nov-16 16:15:00	48	4.5	134	38	49	100	6.6	4.00	8.0	41000	1.093	11215.5
26-Nov-16 16:30:00	48	4.5	134	38	48	100	6.6	4.00	8.0	41000	1.090	11215.9
26-Nov-16 16:45:00	48	4.5	134	37	49	100	6.6	4.00	8.0	41000	1.095	11216.4
26-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.											
26-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.68mS@32degC,Water Density=1010.7kg/m3@32.7DegC, Dissolved Oxygen=3.1%, Oxidation Reduction Potential=-200.3mV2, Salinity=40000ppm.											
26-Nov-16 17:00:00	48	4.7	134	37	49	100	6.6	4.00	8.0	40000	1.094	11216.9
26-Nov-16 17:15:00	48	4.6	132	37	48	100	6.6	4.00	8.0	40000	1.084	11217.3
26-Nov-16 17:30:00	48	4.7	133	35	49	100	6.6	4.00	8.0	40000	1.090	11217.8
26-Nov-16 17:45:00	48	7.7	135	34	49	100	6.6	4.00	8.0	40000	1.088	11218.2
26-Nov-16 18:00:00	48	7.5	130	34	49	100	6.6	4.00	8.0	40000	1.091	11218.7
26-Nov-16 18:15:00	48	7.4	131	34	49	100	6.6	4.00	8.0	40000	1.083	11219.2
26-Nov-16 18:30:00	48	7.5	131	34	49	100	6.6	4.00	8.0	40000	1.085	11219.6
26-Nov-16 18:45:00	48	7.7	132	33	49	100	6.6	4.00	8.0	40000	1.087	11220.1
26-Nov-16 19:00:00	48	7.6	133	33	49	100	6.6	4.00	8.0	40000	1.083	11220.5
26-Nov-16 19:15:00	48	7.7	131	32	49	100	6.6	4.00	8.0	40000	1.082	11221.0
26-Nov-16 19:30:00	48	8.1	135	32	49	100	6.6	4.00	8.0	40000	1.084	11221.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
26-Nov-16 19:45:00	48	10.6	135	31	49	100	6.6	4.00	8.0	40000	1.088	11221.9
26-Nov-16 20:00:00	Gas SG=0.642.											
26-Nov-16 20:00:00	48	10.6	130	31	49	100	6.6	4.00	8.0	40000	1.088	11222.4
26-Nov-16 20:15:00	48	10.8	135	31	49	100	6.6	4.00	8.0	40000	1.085	11222.8
26-Nov-16 20:30:00	48	10.6	131	30	49	100	6.6	4.00	8.0	40000	1.090	11223.3
26-Nov-16 20:45:00	48	10.7	134	30	49	100	6.6	4.00	8.0	40000	1.085	11223.8
26-Nov-16 21:00:00	48	10.6	130	30	49	100	6.6	4.00	8.0	40000	1.086	11224.2
26-Nov-16 21:15:00	48	10.6	131	30	49	100	6.6	4.00	8.0	40000	1.084	11224.6
26-Nov-16 21:30:00	48	10.6	131	30	49	100	6.6	4.00	8.0	40000	1.087	11224.9
26-Nov-16 21:45:00	48	10.6	132	30	47	100	6.6	4.00	8.0	40000	1.087	11225.2
26-Nov-16 22:00:00	48	10.6	132	30	49	100	6.6	4.00	8.0	40000	1.089	11225.6
26-Nov-16 22:15:00	48	10.6	129	30	47	100	6.6	4.00	8.0	40000	1.080	11226.0
26-Nov-16 22:30:00	48	10.6	128	30	47	100	6.6	4.00	8.0	40000	1.085	11226.5
26-Nov-16 22:45:00	48	10.6	132	30	47	100	6.6	4.00	8.0	40000	1.084	11227.0
26-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.											
26-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=59.89mS@23.1degC,Water Density=1013.7kg/m3@25.4DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-225.9mV2, Salinity=41000ppm.											
26-Nov-16 23:00:00	48	10.6	130	30	47	100	6.5	4.00	8.0	41000	1.084	11227.4
26-Nov-16 23:15:00	48	10.6	130	30	47	100	6.5	4.00	8.0	41000	1.086	11227.9
26-Nov-16 23:30:00	48	10.6	128	30	47	100	6.5	4.00	8.0	41000	1.085	11228.4
26-Nov-16 23:45:00	48	10.6	133	30	49	100	6.5	4.00	8.0	41000	1.084	11228.8
27-Nov-16 00:00:00	48	10.6	131	30	47	100	6.5	4.00	8.0	41000	1.088	11229.3
27-Nov-16 00:15:00	48	10.6	130	29	47	100	6.5	4.00	8.0	41000	1.085	11229.7
27-Nov-16 00:30:00	48	10.6	130	29	47	100	6.5	4.00	8.0	41000	1.089	11230.2
27-Nov-16 00:45:00	48	10.6	130	30	47	100	6.5	4.00	8.0	41000	1.081	11230.7
27-Nov-16 01:00:00	48	10.6	131	30	47	100	6.5	4.00	8.0	41000	1.089	11231.1
27-Nov-16 01:15:00	48	10.6	132	30	47	100	6.5	4.00	8.0	41000	1.082	11231.6
27-Nov-16 01:30:00	48	10.6	133	29	49	100	6.5	4.00	8.0	41000	1.088	11232.0
27-Nov-16 01:45:00	48	10.7	131	29	47	100	6.5	4.00	8.0	41000	1.084	11232.5
27-Nov-16 02:00:00	Gas SG=0.642.											
27-Nov-16 02:00:00	48	10.9	129	29	47	100	6.5	4.00	8.0	41000	1.088	11233.0
27-Nov-16 02:15:00	48	13.7	129	29	47	100	6.5	4.00	8.0	41000	1.083	11233.4
27-Nov-16 02:30:00	48	13.7	130	29	48	100	6.5	4.00	8.0	41000	1.084	11233.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
27-Nov-16 02:45:00	48	13.8	130	29	48	100	6.5	4.00	8.0	41000	1.086	11234.3
27-Nov-16 03:00:00	48	13.8	130	29	49	100	6.5	4.00	8.0	41000	1.085	11234.8
27-Nov-16 03:15:00	48	13.6	132	29	49	100	6.5	4.00	8.0	41000	1.093	11235.1
27-Nov-16 03:30:00	48	13.8	133	29	49	100	6.5	4.00	8.0	41000	1.086	11235.5
27-Nov-16 03:45:00	48	13.8	132	29	49	100	6.5	4.00	8.0	41000	1.088	11235.8
27-Nov-16 04:00:00	48	13.8	131	29	49	100	6.5	4.00	8.0	41000	1.089	11236.2
27-Nov-16 04:15:00	48	13.6	128	29	47	100	6.5	4.00	8.0	41000	1.088	11236.5
27-Nov-16 04:30:00	48	13.7	129	28	47	100	6.5	4.00	8.0	41000	1.083	11236.9
27-Nov-16 04:45:00	48	13.8	129	28	47	100	6.5	4.00	8.0	41000	1.091	11237.2
27-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.											
27-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.68mS@21.5degC,Water Density=1013.4kg/m3@23.8DegC, Dissolved Oxygen=4.8%, Oxidation Reduction Potential=-195.7mV2, Salinity=41000ppm.											
27-Nov-16 05:00:00	48	13.8	130	28	48	100	6.5	4.00	8.0	41000	1.091	11237.5
27-Nov-16 05:10:00	Pumped 70.4 bbls from tank to pond.											
27-Nov-16 05:15:00	48	13.8	131	28	47	100	6.5	4.00	8.0	41000	1.083	11238.0
27-Nov-16 05:30:00	48	13.8	130	28	48	100	6.5	4.00	8.0	41000	1.091	11238.5
27-Nov-16 05:45:00	48	13.8	127	28	47	100	6.5	4.00	8.0	41000	1.086	11238.9
27-Nov-16 06:00:00	48	13.8	131	28	48	100	6.5	4.00	8.0	41000	1.089	11239.4
27-Nov-16 06:15:00	48	13.6	130	28	47	100	6.5	4.00	8.0	41000	1.086	11240.0
27-Nov-16 06:30:00	48	13.6	132	28	48	100	6.5	4.00	8.0	41000	1.088	11240.5
27-Nov-16 06:45:00	48	13.6	132	30	48	100	6.5	4.00	8.0	41000	1.093	11241.1
27-Nov-16 07:00:00	48	13.3	133	31	47	100	6.5	4.00	8.0	41000	1.085	11241.7
27-Nov-16 07:15:00	48	10.2	136	32	47	100	6.5	4.00	8.0	41000	1.092	11242.3
27-Nov-16 07:30:00	48	10.2	131	32	47	100	6.5	4.00	8.0	41000	1.089	11242.8
27-Nov-16 07:45:00	48	10.2	132	33	47	100	6.5	4.00	8.0	41000	1.093	11243.4
27-Nov-16 08:00:00	Gas SG=0.640.											
27-Nov-16 08:00:00	48	9.4	134	33	47	100	6.5	4.00	8.0	41000	1.087	11244.0
27-Nov-16 08:15:00	48	7.3	134	33	47	100	6.5	4.00	8.0	41000	1.092	11244.3
27-Nov-16 08:30:00	48	7.3	135	34	47	100	6.5	4.00	8.0	41000	1.088	11244.7
27-Nov-16 08:45:00	48	7.3	134	35	47	100	6.5	4.00	8.0	41000	1.091	11245.0
27-Nov-16 09:00:00	48	7.3	133	35	47	100	6.5	4.00	8.0	41000	1.091	11245.4
27-Nov-16 09:15:00	48	7.3	132	36	47	100	6.5	4.00	8.0	41000	1.087	11245.8
27-Nov-16 09:30:00	48	7.3	133	36	47	100	6.5	4.00	8.0	41000	1.093	11246.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
27-Nov-16 09:45:00	48	7.1	130	37	47	100	6.5	4.00	8.0	41000	1.080	11246.8
27-Nov-16 10:00:00	48	7.2	128	37	46	100	6.5	4.00	8.0	41000	1.102	11247.2
27-Nov-16 10:15:00	48	7.3	134	38	47	100	6.5	4.00	8.0	41000	1.083	11247.7
27-Nov-16 10:30:00	48	7.3	128	38	47	100	6.5	4.00	8.0	41000	1.100	11248.1
27-Nov-16 10:45:00	48	7.3	134	38	48	100	6.5	4.00	8.0	41000	1.089	11248.6
27-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2 4%, Gas SG=0.640.											
27-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.55mS@30.5degC,Water Density=1011.4kg/m3@31DegC, Dissolved Oxygen=3.1%, Oxidation Reduction Potential=-220mV2, Salinity=41000ppm.											
27-Nov-16 11:00:00	48	7.3	137	38	47	100	6.6	4.00	8.0	41000	1.091	11249.1
27-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.											
27-Nov-16 11:15:00	48	7.3	133	39	48	100	6.6	4.00	8.0	41000	1.092	11249.4
27-Nov-16 11:30:00	48	6.3	134	39	47	100	6.6	4.00	8.0	41000	1.090	11249.7
27-Nov-16 11:45:00	48	4.8	136	39	47	100	6.6	4.00	8.0	41000	1.090	11250.1
27-Nov-16 12:00:00	48	4.3	136	39	48	100	6.6	4.00	8.0	41000	1.096	11250.4
27-Nov-16 12:15:00	48	4.5	135	40	48	100	6.6	4.00	8.0	41000	1.091	11250.8
27-Nov-16 12:30:00	48	4.8	133	39	48	100	6.6	4.00	8.0	41000	1.094	11251.1
27-Nov-16 12:45:00	48	4.7	133	40	47	100	6.6	4.00	8.0	41000	1.093	11251.5
27-Nov-16 13:00:00	48	4.3	136	40	47	100	6.6	4.00	8.0	41000	1.090	11251.8
27-Nov-16 13:15:00	48	4.5	136	40	49	100	6.6	4.00	8.0	41000	1.093	11252.3
27-Nov-16 13:30:00	48	4.5	134	39	48	100	6.6	4.00	8.0	41000	1.089	11252.7
27-Nov-16 13:45:00	48	4.4	137	39	49	100	6.6	4.00	8.0	41000	1.091	11253.2
27-Nov-16 14:00:00	Gas SG=0.640.											
27-Nov-16 14:00:00	48	4.4	136	40	49	100	6.6	4.00	8.0	41000	1.093	11253.7
27-Nov-16 14:15:00	48	4.5	137	40	49	100	6.6	4.00	8.0	41000	1.094	11254.1
27-Nov-16 14:30:00	48	4.5	134	40	49	100	6.6	4.00	8.0	41000	1.092	11254.6
27-Nov-16 14:45:00	48	4.5	133	41	48	100	6.6	4.00	8.0	41000	1.095	11255.0
27-Nov-16 15:00:00	48	4.5	134	41	49	100	6.6	4.00	8.0	41000	1.091	11255.5
27-Nov-16 15:15:00	48	4.5	131	40	48	100	6.6	4.00	8.0	41000	1.090	11255.7
27-Nov-16 15:30:00	48	4.5	131	39	49	100	6.6	4.00	8.0	41000	1.091	11256.0
27-Nov-16 15:45:00	48	4.5	136	39	49	100	6.6	4.00	8.0	41000	1.088	11256.2
27-Nov-16 16:00:00	48	4.5	131	38	49	100	6.6	4.00	8.0	41000	1.090	11256.4
27-Nov-16 16:15:00	48	4.7	136	38	49	100	6.6	4.00	8.0	41000	1.088	11256.9
27-Nov-16 16:30:00	48	4.7	133	37	49	100	6.6	4.00	8.0	41000	1.090	11257.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
27-Nov-16 16:45:00	48	4.6	132	37	49	100	6.6	4.00	8.0	41000	1.088	11257.8
27-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
27-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.22mS@31.4degC,Water Density=1010.8kg/m3@33DegC, Dissolved Oxygen=3.7%, Oxidation Reduction Potential=-226mV2, Salinity=41000ppm.											
27-Nov-16 17:00:00	48	4.7	132	37	49	100	6.6	4.00	8.0	41000	1.088	11258.3
27-Nov-16 17:15:00	48	4.7	135	37	49	100	6.6	4.00	8.0	41000	1.082	11258.8
27-Nov-16 17:30:00	48	4.7	133	36	49	100	6.6	4.00	8.0	41000	1.091	11259.4
27-Nov-16 17:45:00	48	4.7	132	36	49	100	6.6	4.00	8.0	41000	1.074	11260.0
27-Nov-16 18:00:00	48	4.7	134	35	49	100	6.6	4.00	8.0	41000	1.081	11260.5
27-Nov-16 18:15:00	48	5.7	135	34	49	100	6.6	4.00	8.0	41000	1.080	11261.0
27-Nov-16 18:30:00	48	7.7	133	34	49	100	6.6	4.00	8.0	41000	1.079	11261.5
27-Nov-16 18:45:00	48	7.7	134	33	49	100	6.6	4.00	8.0	41000	1.082	11261.9
27-Nov-16 19:00:00	48	7.7	135	33	50	100	6.6	4.00	8.0	41000	1.082	11262.4
27-Nov-16 19:15:00	48	7.9	133	33	49	100	6.6	4.00	8.0	41000	1.083	11262.7
27-Nov-16 19:30:00	48	7.7	130	32	49	100	6.6	4.00	8.0	41000	1.082	11263.1
27-Nov-16 19:45:00	48	7.7	133	32	49	100	6.6	4.00	8.0	41000	1.084	11263.4
27-Nov-16 20:00:00	Gas SG=0.642.											
27-Nov-16 20:00:00	48	10.6	129	31	49	100	6.6	4.00	8.0	41000	1.077	11263.8
27-Nov-16 20:15:00	48	10.6	128	31	49	100	6.6	4.00	8.0	41000	1.085	11264.1
27-Nov-16 20:30:00	48	10.6	132	31	49	100	6.6	4.00	8.0	41000	1.082	11264.5
27-Nov-16 20:45:00	48	10.6	132	31	49	100	6.6	4.00	8.0	41000	1.082	11264.8
27-Nov-16 21:00:00	48	10.5	132	31	49	100	6.6	4.00	8.0	41000	1.080	11265.2
27-Nov-16 21:15:00	48	10.6	128	31	49	100	6.6	4.00	8.0	41000	1.080	11265.6
27-Nov-16 21:30:00	48	10.4	132	31	49	100	6.6	4.00	8.0	41000	1.077	11266.1
27-Nov-16 21:45:00	48	10.4	133	31	49	100	6.6	4.00	8.0	41000	1.085	11266.5
27-Nov-16 22:00:00	48	10.4	133	31	49	100	6.6	4.00	8.0	41000	1.078	11267.0
27-Nov-16 22:15:00	48	10.4	129	31	49	100	6.6	4.00	8.0	41000	1.086	11267.4
27-Nov-16 22:30:00	48	10.4	131	31	49	100	6.6	4.00	8.0	41000	1.078	11267.9
27-Nov-16 22:45:00	48	10.4	130	31	48	100	6.6	4.00	8.0	41000	1.082	11268.4
27-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
27-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=60.14mS@24degC,Water Density=1012.8kg/m3@26.3DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-243.7mV2, Salinity=41000ppm.											
27-Nov-16 23:00:00	48	10.4	133	31	49	100	6.6	4.00	8.0	41000	1.079	11268.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
27-Nov-16 23:15:00	48	10.4	133	30	49	100	6.6	4.00	8.0	41000	1.080	11269.3
27-Nov-16 23:30:00	48	10.5	131	30	49	100	6.6	4.00	8.0	41000	1.079	11269.8
27-Nov-16 23:45:00	48	10.5	130	31	49	100	6.6	4.00	8.0	41000	1.080	11270.2
28-Nov-16 00:00:00	48	10.6	133	31	49	100	6.6	4.00	8.0	41000	1.077	11270.7
28-Nov-16 00:15:00	48	10.6	131	31	49	100	6.6	4.00	8.0	41000	1.083	11271.1
28-Nov-16 00:30:00	48	10.6	129	30	49	100	6.6	4.00	8.0	41000	1.083	11271.6
28-Nov-16 00:45:00	48	10.6	131	30	49	100	6.6	4.00	8.0	41000	1.082	11272.1
28-Nov-16 01:00:00	48	10.5	130	30	49	100	6.6	4.00	8.0	41000	1.077	11272.5
28-Nov-16 01:15:00	48	10.6	131	30	49	100	6.6	4.00	8.0	41000	1.081	11272.9
28-Nov-16 01:30:00	48	10.6	132	30	49	100	6.6	4.00	8.0	41000	1.078	11273.2
28-Nov-16 01:45:00	48	10.4	130	30	49	100	6.6	4.00	8.0	41000	1.083	11273.5
28-Nov-16 02:00:00	Gas SG=0.640.											
28-Nov-16 02:00:00	48	10.6	128	30	49	100	6.6	4.00	8.0	41000	1.082	11273.9
28-Nov-16 02:15:00	48	10.6	129	30	47	100	6.6	4.00	8.0	41000	1.086	11274.2
28-Nov-16 02:30:00	48	10.5	131	30	49	100	6.6	4.00	8.0	41000	1.080	11274.6
28-Nov-16 02:45:00	48	10.6	130	30	49	100	6.6	4.00	8.0	41000	1.085	11274.9
28-Nov-16 03:00:00	48	10.6	129	29	48	100	6.6	4.00	8.0	41000	1.085	11275.3
28-Nov-16 03:15:00	48	11.1	133	29	49	100	6.6	4.00	8.0	41000	1.080	11275.7
28-Nov-16 03:30:00	48	11.5	132	29	49	100	6.6	4.00	8.0	41000	1.089	11276.2
28-Nov-16 03:45:00	48	12.1	134	29	49	100	6.6	4.00	8.0	41000	1.085	11276.7
28-Nov-16 04:00:00	48	10.4	129	29	48	100	6.6	4.00	8.0	41000	1.082	11277.1
28-Nov-16 04:15:00	48	10.4	132	29	49	100	6.6	4.00	8.0	41000	1.083	11277.5
28-Nov-16 04:30:00	48	10.4	131	29	49	100	6.6	4.00	8.0	41000	1.080	11277.8
28-Nov-16 04:45:00	48	10.4	133	29	49	100	6.6	4.00	8.0	41000	1.084	11278.1
28-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
28-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.87mS@20.8degC,Water Density=1014kg/m3@23.2DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-197.6mV2, Salinity=42000ppm.											
28-Nov-16 05:00:00	48	10.4	129	29	49	100	6.5	4.00	8.0	42000	1.083	11278.5
28-Nov-16 05:15:00	48	13.2	131	29	49	100	6.5	4.00	8.0	42000	1.078	11278.8
28-Nov-16 05:30:00	48	12.3	132	29	49	100	6.5	4.00	8.0	42000	1.088	11279.2
28-Nov-16 05:45:00	48	13.4	129	29	49	100	6.5	4.00	8.0	42000	1.082	11279.5
28-Nov-16 06:00:00	48	13.4	130	29	49	100	6.5	4.00	8.0	42000	1.084	11279.9
28-Nov-16 06:15:00	48	13.4	130	29	49	100	6.5	4.00	8.0	42000	1.079	11280.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
28-Nov-16 06:30:00	48	13.2	131	30	49	100	6.5	4.00	8.0	42000	1.086	11281.0
28-Nov-16 06:45:00	48	11.1	131	30	49	100	6.5	4.00	8.0	42000	1.084	11281.6
28-Nov-16 07:00:00	48	10.2	130	31	49	100	6.5	4.00	8.0	42000	1.085	11282.2
28-Nov-16 07:15:00	48	10.2	133	32	49	100	6.5	4.00	8.0	42000	1.082	11282.4
28-Nov-16 07:30:00	48	10.0	134	32	49	100	6.5	4.00	8.0	42000	1.084	11282.6
28-Nov-16 07:45:00	48	8.2	133	33	49	100	6.5	4.00	8.0	42000	1.088	11282.9
28-Nov-16 08:00:00	Gas SG 0.638.											
28-Nov-16 08:00:00	48	7.1	136	34	49	100	6.5	4.00	8.0	42000	1.081	11283.1
28-Nov-16 08:15:00	48	7.3	133	34	48	100	6.5	4.00	8.0	42000	1.093	11283.7
28-Nov-16 08:30:00	48	7.3	133	34	48	100	6.5	4.00	8.0	42000	1.086	11284.2
28-Nov-16 08:45:00	48	7.3	132	35	47	100	6.5	4.00	8.0	42000	1.093	11284.8
28-Nov-16 09:00:00	48	7.3	132	35	48	100	6.5	4.00	8.0	42000	1.086	11285.4
28-Nov-16 09:15:00	48	7.3	134	36	49	100	6.5	4.00	8.0	42000	1.090	11285.8
28-Nov-16 09:30:00	48	7.3	133	37	48	100	6.5	4.00	8.0	42000	1.090	11286.3
28-Nov-16 09:45:00	48	7.3	134	37	48	100	6.5	4.00	8.0	42000	1.088	11286.8
28-Nov-16 10:00:00	48	7.3	135	37	49	100	6.5	4.00	8.0	42000	1.093	11287.2
28-Nov-16 10:15:00	48	7.3	135	38	49	100	6.5	4.00	8.0	42000	1.091	11287.8
28-Nov-16 10:30:00	48	6.4	135	38	49	100	6.5	4.00	8.0	42000	1.093	11288.4
28-Nov-16 10:45:00	48	7.4	137	38	49	100	6.5	4.00	8.0	42000	1.088	11289.0
28-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
28-Nov-16 11:00:00	48	5.3	131	39	48	100	6.6	4.00	8.0	42000	1.097	11289.5
28-Nov-16 11:00:10	Water sample from VX: pH=6.6 Electrical Conductivity=70.06mS@31degC,Water Density=1012.4kg/m3@31.4DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-209.3mV2, Salinity=42000ppm.											
28-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.											
28-Nov-16 11:15:00	48	5.0	130	39	48	100	6.6	4.00	8.0	42000	1.084	11289.9
28-Nov-16 11:30:00	48	4.6	133	39	49	100	6.6	4.00	8.0	42000	1.089	11290.2
28-Nov-16 11:45:00	48	6.4	135	39	49	100	6.6	4.00	8.0	42000	1.091	11290.6
28-Nov-16 12:00:00	48	4.5	133	40	49	100	6.6	4.00	8.0	42000	1.093	11290.9
28-Nov-16 12:15:00	48	4.5	133	40	49	100	6.6	4.00	8.0	42000	1.090	11291.3
28-Nov-16 12:30:00	48	4.5	135	40	49	100	6.6	4.00	8.0	42000	1.084	11291.6
28-Nov-16 12:45:00	48	4.5	130	40	49	100	6.6	4.00	8.0	42000	1.091	11291.9
28-Nov-16 13:00:00	48	4.7	130	41	48	100	6.6	4.00	8.0	42000	1.085	11292.3
28-Nov-16 13:05:00	Gas flare blown out by gust of wind.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
28-Nov-16 13:10:00	Re-lit gas flare.											
28-Nov-16 13:15:00	48	4.5	136	41	49	100	6.6	4.00	8.0	42000	1.086	11292.6
28-Nov-16 13:30:00	48	4.6	133	39	49	100	6.6	4.00	8.0	42000	1.086	11293.0
28-Nov-16 13:45:00	48	4.5	135	39	49	100	6.6	4.00	8.0	42000	1.089	11293.3
28-Nov-16 14:00:00	Gas SG 0.640.											
28-Nov-16 14:00:00	48	4.6	136	39	49	100	6.6	4.00	8.0	42000	1.086	11293.7
28-Nov-16 14:15:00	48	4.5	135	40	50	100	6.6	4.00	8.0	42000	1.094	11294.0
28-Nov-16 14:30:00	48	4.5	132	40	49	100	6.6	4.00	8.0	42000	1.084	11294.2
28-Nov-16 14:45:00	48	4.7	133	38	49	100	6.6	4.00	8.0	42000	1.089	11294.5
28-Nov-16 15:00:00	48	4.7	134	38	49	100	6.6	4.00	8.0	42000	1.086	11294.8
28-Nov-16 15:15:00	48	4.5	133	39	49	100	6.6	4.00	8.0	42000	1.088	11295.1
28-Nov-16 15:30:00	48	4.5	134	40	50	100	6.6	4.00	8.0	42000	1.088	11295.4
28-Nov-16 15:45:00	48	4.7	130	38	49	100	6.6	4.00	8.0	42000	1.084	11295.7
28-Nov-16 16:00:00	Took ALS water sample from separator. PH 6.3, EC 73.77m/s @ 34.2 deg C 11296 bbls returned.											
28-Nov-16 16:00:00	48	6.2	135	36	51	100	6.6	4.00	8.0	42000	1.086	11296.0
28-Nov-16 16:15:00	48	4.7	133	37	49	100	6.6	4.00	8.0	42000	1.088	11296.4
28-Nov-16 16:30:00	48	4.5	136	37	51	100	6.6	4.00	8.0	42000	1.081	11296.9
28-Nov-16 16:45:00	48	4.7	135	37	50	100	6.6	4.00	8.0	42000	1.082	11297.4
28-Nov-16 17:00:00	BSW 100% No Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
28-Nov-16 17:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=69.7mS@31.8degC,Water Density=1011.5kg/m3@32.5DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-195.1mV2, Salinity=41000ppm.											
28-Nov-16 17:00:00	48	4.7	133	37	50	100	6.6	4.00	8.0	41000	1.082	11297.8
28-Nov-16 17:15:00	48	4.7	133	37	51	100	6.6	4.00	8.0	41000	1.085	11298.3
28-Nov-16 17:30:00	48	4.7	135	36	51	100	6.6	4.00	8.0	41000	1.082	11298.7
28-Nov-16 17:45:00	48	4.7	132	35	51	100	6.6	4.00	8.0	41000	1.077	11299.2
28-Nov-16 18:00:00	48	4.7	134	35	51	100	6.6	4.00	8.0	41000	1.076	11299.7
28-Nov-16 18:15:00	48	4.6	135	34	51	100	6.6	4.00	8.0	41000	1.078	11300.0
28-Nov-16 18:30:00	48	7.3	129	34	51	100	6.6	4.00	8.0	41000	1.087	11300.3
28-Nov-16 18:45:00	48	7.7	130	33	51	100	6.6	4.00	8.0	41000	1.075	11300.7
28-Nov-16 19:00:00	48	7.7	129	33	50	100	6.6	4.00	8.0	41000	1.083	11301.0
28-Nov-16 19:15:00	48	7.7	131	32	51	100	6.6	4.00	8.0	41000	1.078	11301.4
28-Nov-16 19:30:00	48	7.7	134	32	50	100	6.6	4.00	8.0	41000	1.079	11301.7
28-Nov-16 19:45:00	48	10.6	131	31	50	100	6.6	4.00	8.0	41000	1.082	11302.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
28-Nov-16 20:00:00	Gas SG 0.640.											
28-Nov-16 20:00:00	48	10.6	130	31	50	100	6.6	4.00	8.0	41000	1.073	11302.4
28-Nov-16 20:15:00	48	10.8	131	31	50	100	6.6	4.00	8.0	41000	1.080	11302.8
28-Nov-16 20:30:00	48	10.6	134	30	50	100	6.6	4.00	8.0	41000	1.081	11303.1
28-Nov-16 20:45:00	48	10.8	131	30	50	100	6.6	4.00	8.0	41000	1.079	11303.4
28-Nov-16 21:00:00	48	10.6	131	30	50	100	6.6	4.00	8.0	41000	1.083	11303.8
28-Nov-16 21:15:00	48	10.6	130	30	50	100	6.6	4.00	8.0	41000	1.082	11304.1
28-Nov-16 21:30:00	48	10.6	129	30	50	100	6.6	4.00	8.0	41000	1.082	11304.5
28-Nov-16 21:45:00	48	10.8	128	30	50	100	6.6	4.00	8.0	41000	1.080	11304.8
28-Nov-16 22:00:00	48	11.2	129	30	50	100	6.6	4.00	8.0	41000	1.066	11305.2
28-Nov-16 22:15:00	48	10.6	137	30	52	100	6.6	4.00	8.0	41000	1.097	11305.7
28-Nov-16 22:30:00	48	10.6	131	30	50	100	6.6	4.00	8.0	41000	1.085	11306.3
28-Nov-16 22:45:00	48	10.4	131	30	50	100	6.6	4.00	8.0	41000	1.092	11306.9
28-Nov-16 23:00:00	BSW 100% Trace Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
28-Nov-16 23:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=59.42mS@23.9degC,Water Density=1012.5kg/m3@24.0DegC, Dissolved Oxygen=3.2%, Oxidation Reduction Potential=-258.4mV2, Salinity=41000ppm.											
28-Nov-16 23:00:00	48	10.4	130	30	49	100	6.5	4.00	8.0	41000	1.080	11307.5
28-Nov-16 23:15:00	48	10.4	131	30	49	100	6.5	4.00	8.0	41000	1.083	11307.8
28-Nov-16 23:30:00	48	10.4	133	30	50	100	6.5	4.00	8.0	41000	1.082	11308.2
28-Nov-16 23:45:00	48	10.4	129	30	49	100	6.5	4.00	8.0	41000	1.084	11308.5
29-Nov-16 00:00:00	48	10.4	131	30	50	100	6.5	4.00	8.0	41000	1.081	11308.9
29-Nov-16 00:15:00	48	10.4	130	30	49	100	6.5	4.00	8.0	41000	1.081	11309.3
29-Nov-16 00:30:00	48	10.6	133	30	50	100	6.5	4.00	8.0	41000	1.084	11309.8
29-Nov-16 00:45:00	48	10.4	130	30	49	100	6.5	4.00	8.0	41000	1.082	11310.2
29-Nov-16 01:00:00	48	10.4	132	30	50	100	6.5	4.00	8.0	41000	1.085	11310.7
29-Nov-16 01:15:00	48	10.5	134	30	50	100	6.5	4.00	8.0	41000	1.079	11311.0
29-Nov-16 01:30:00	48	11.9	133	29	50	100	6.5	4.00	8.0	41000	1.088	11311.4
29-Nov-16 01:45:00	48	10.6	131	29	50	100	6.5	4.00	8.0	41000	1.079	11311.7
29-Nov-16 02:00:00	Pumped 43.7 bbls from tank to pond.											
29-Nov-16 02:00:00	Gas SG 0.642.											
29-Nov-16 02:00:00	48	13.6	128	29	49	100	6.5	4.00	8.0	41000	1.083	11312.1
29-Nov-16 02:15:00	48	13.6	133	30	49	100	6.5	4.00	8.0	41000	1.081	11312.4
29-Nov-16 02:30:00	48	13.4	131	30	49	100	6.5	4.00	8.0	41000	1.087	11312.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
29-Nov-16 02:45:00	48	12.5	130	30	49	100	6.5	4.00	8.0	41000	1.082	11313.1
29-Nov-16 03:00:00	48	10.4	132	29	49	100	6.5	4.00	8.0	41000	1.080	11313.5
29-Nov-16 03:15:00	48	12.5	132	30	50	100	6.5	4.00	8.0	41000	1.085	11313.8
29-Nov-16 03:30:00	48	12.7	128	29	49	100	6.5	4.00	8.0	41000	1.082	11314.1
29-Nov-16 03:45:00	48	10.9	131	29	50	100	6.5	4.00	8.0	41000	1.084	11314.5
29-Nov-16 04:00:00	48	12.5	129	29	49	100	6.5	4.00	8.0	41000	1.085	11314.8
29-Nov-16 04:15:00	48	13.6	131	29	50	100	6.5	4.00	8.0	41000	1.086	11315.3
29-Nov-16 04:30:00	48	13.6	129	29	49	100	6.5	4.00	8.0	41000	1.083	11315.8
29-Nov-16 04:45:00	48	13.6	129	29	49	100	6.5	4.00	8.0	41000	1.080	11316.2
29-Nov-16 05:00:00	BSW 100% Trace Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
29-Nov-16 05:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=59.30mS@24.1degC,Water Density=1012.5kg/m3@25.3DegC, Dissolved Oxygen=2.5%, Oxidation Reduction Potential=-231.9mV2, Salinity=41000ppm.											
29-Nov-16 05:00:00	48	13.4	129	29	49	100	6.5	4.00	8.0	41000	1.082	11316.7
29-Nov-16 05:15:00	48	13.6	131	29	50	100	6.5	4.00	8.0	41000	1.083	11317.1
29-Nov-16 05:30:00	48	13.6	131	28	50	100	6.5	4.00	8.0	41000	1.084	11317.6
29-Nov-16 05:45:00	48	13.6	133	28	50	100	6.5	4.00	8.0	41000	1.085	11318.1
29-Nov-16 06:00:00	48	13.6	130	28	50	100	6.5	4.00	8.0	41000	1.093	11318.5
29-Nov-16 06:15:00	48	13.4	129	28	49	100	6.5	4.00	8.0	41000	1.082	11318.9
29-Nov-16 06:30:00	48	13.4	134	29	50	100	6.5	4.00	8.0	41000	1.086	11319.2
29-Nov-16 06:45:00	48	13.4	132	30	49	100	6.5	4.00	8.0	41000	1.087	11319.5
29-Nov-16 07:00:00	48	10.4	131	31	49	100	6.5	4.00	8.0	41000	1.086	11319.9
29-Nov-16 07:15:00	48	10.2	135	32	49	100	6.5	4.00	8.0	41000	1.083	11320.2
29-Nov-16 07:30:00	48	10.2	132	33	49	100	6.5	4.00	8.0	41000	1.092	11320.6
29-Nov-16 07:45:00	48	10.2	137	33	50	100	6.5	4.00	8.0	41000	1.084	11320.9
29-Nov-16 08:00:00	Gas SG 0.640.											
29-Nov-16 08:00:00	48	7.3	135	33	49	100	6.5	4.00	8.0	41000	1.092	11321.3
29-Nov-16 08:15:00	48	7.6	134	33	49	100	6.5	4.00	8.0	41000	1.087	11321.6
29-Nov-16 08:30:00	48	7.3	131	34	49	100	6.5	4.00	8.0	41000	1.087	11322.0
29-Nov-16 08:45:00	48	7.3	134	34	49	100	6.5	4.00	8.0	41000	1.086	11322.3
29-Nov-16 09:00:00	48	7.3	131	34	49	100	6.5	4.00	8.0	41000	1.086	11322.7
29-Nov-16 09:15:00	48	7.3	135	35	49	100	6.5	4.00	8.0	41000	1.085	11323.1
29-Nov-16 09:30:00	48	7.3	134	35	49	100	6.5	4.00	8.0	41000	1.089	11323.6
29-Nov-16 09:45:00	48	7.3	131	36	49	100	6.5	4.00	8.0	41000	1.084	11324.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
29-Nov-16 10:00:00	48	7.3	135	37	49	100	6.5	4.00	8.0	41000	1.090	11324.5
29-Nov-16 10:15:00	48	7.3	135	37	49	100	6.5	4.00	8.0	41000	1.087	11324.9
29-Nov-16 10:30:00	48	7.3	133	38	49	100	6.5	4.00	8.0	41000	1.089	11325.4
29-Nov-16 10:45:00	48	7.3	133	38	49	100	6.5	4.00	8.0	41000	1.091	11325.9
29-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
29-Nov-16 11:00:00	Flushed VX liquid port, found 1cc of sand.											
29-Nov-16 11:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=70.08mS@31.2degC,Water Density=1011.4kg/m3@32DegC, Dissolved Oxygen=1.8%, Oxidation Reduction Potential=-231.4mV2, Salinity=41000ppm.											
29-Nov-16 11:00:00	48	7.3	134	39	50	100	6.5	4.00	8.0	42000	1.086	11326.3
29-Nov-16 11:15:00	48	5.4	136	39	49	100	6.5	4.00	8.0	42000	1.086	11326.7
29-Nov-16 11:30:00	48	4.3	133	39	49	100	6.5	4.00	8.0	42000	1.089	11327.0
29-Nov-16 11:45:00	48	4.7	136	39	49	100	6.5	4.00	8.0	42000	1.084	11327.4
29-Nov-16 12:00:00	48	4.5	135	39	49	100	6.5	4.00	8.0	42000	1.090	11327.7
29-Nov-16 12:15:00	48	5.0	136	40	49	100	6.5	4.00	8.0	42000	1.093	11328.1
29-Nov-16 12:30:00	48	4.5	134	40	49	100	6.5	4.00	8.0	42000	1.086	11328.4
29-Nov-16 12:45:00	48	4.5	136	41	50	100	6.5	4.00	8.0	42000	1.088	11328.7
29-Nov-16 13:00:00	48	4.5	137	41	50	100	6.5	4.00	8.0	42000	1.085	11329.1
29-Nov-16 13:15:00	48	4.5	136	41	51	100	6.5	4.00	8.0	42000	1.089	11329.5
29-Nov-16 13:30:00	48	4.5	136	41	51	100	6.5	4.00	8.0	42000	1.087	11330.0
29-Nov-16 13:45:00	48	4.5	139	41	51	100	6.5	4.00	8.0	42000	1.089	11330.5
29-Nov-16 14:00:00	Gas SG 0.640.											
29-Nov-16 14:00:00	48	4.5	133	41	49	100	6.5	4.00	8.0	42000	1.087	11330.9
29-Nov-16 14:15:00	48	4.5	138	41	51	100	6.5	4.00	8.0	42000	1.086	11331.3
29-Nov-16 14:30:00	48	4.5	135	42	50	100	6.5	4.00	8.0	42000	1.091	11331.6
29-Nov-16 14:45:00	48	4.4	136	41	51	100	6.5	4.00	8.0	42000	1.089	11332.0
29-Nov-16 15:00:00	48	4.7	131	39	50	100	6.5	4.00	8.0	42000	1.091	11332.3
29-Nov-16 15:15:00	48	4.9	134	38	51	100	6.5	4.00	8.0	42000	1.086	11332.7
29-Nov-16 15:30:00	48	4.7	131	38	50	100	6.5	4.00	8.0	42000	1.092	11333.0
29-Nov-16 15:45:00	48	4.7	132	39	50	100	6.5	4.00	8.0	42000	1.087	11333.3
29-Nov-16 16:00:00	48	4.7	133	40	51	100	6.5	4.00	8.0	42000	1.088	11333.7
29-Nov-16 16:15:00	48	4.7	135	39	51	100	6.5	4.00	8.0	42000	1.088	11334.2
29-Nov-16 16:30:00	48	4.7	131	38	51	100	6.5	4.00	8.0	42000	1.087	11334.6
29-Nov-16 16:45:00	48	4.7	134	38	51	100	6.5	4.00	8.0	42000	1.082	11335.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
29-Nov-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4.5%, Gas SG 0.642.											
29-Nov-16 17:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=69.82mS@31.4degC,Water Density=1011.2kg/m3@33.2DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-232mV2, Salinity=42000ppm.											
29-Nov-16 17:00:00	48	4.7	133	38	51	100	6.6	4.50	8.0	42000	1.084	11335.5
29-Nov-16 17:15:00	48	4.7	135	37	50	100	6.6	4.50	8.0	42000	1.081	11335.9
29-Nov-16 17:30:00	48	4.7	132	37	51	100	6.6	4.50	8.0	42000	1.079	11336.2
29-Nov-16 17:45:00	48	4.9	134	36	51	100	6.6	4.50	8.0	42000	1.077	11336.6
29-Nov-16 18:00:00	48	6.7	133	35	51	100	6.6	4.50	8.0	42000	1.078	11336.9
29-Nov-16 18:15:00	48	4.9	132	35	51	100	6.6	4.50	8.0	42000	1.081	11337.4
29-Nov-16 18:30:00	48	6.3	132	35	51	100	6.6	4.50	8.0	42000	1.078	11337.8
29-Nov-16 18:45:00	48	7.7	135	34	52	100	6.6	4.50	8.0	42000	1.073	11338.3
29-Nov-16 19:00:00	48	7.9	134	33	51	100	6.6	4.50	8.0	42000	1.080	11338.8
29-Nov-16 19:15:00	48	7.9	134	32	52	100	6.6	4.50	8.0	42000	1.075	11339.1
29-Nov-16 19:30:00	48	7.8	133	32	52	100	6.6	4.50	8.0	42000	1.078	11339.4
29-Nov-16 19:45:00	48	7.9	131	32	50	100	6.6	4.50	8.0	42000	1.080	11339.8
29-Nov-16 20:00:00	Gas SG 0.642.											
29-Nov-16 20:00:00	48	10.8	132	31	50	100	6.6	4.50	8.0	42000	1.075	11340.1
29-Nov-16 20:15:00	48	10.8	131	31	50	100	6.6	4.50	8.0	42000	1.076	11340.5
29-Nov-16 20:30:00	48	10.6	130	31	50	100	6.6	4.50	8.0	42000	1.079	11340.8
29-Nov-16 20:45:00	48	10.8	133	30	51	100	6.6	4.50	8.0	42000	1.078	11341.2
29-Nov-16 21:00:00	48	10.6	133	30	52	100	6.6	4.50	8.0	42000	1.077	11341.5
29-Nov-16 21:15:00	48	10.6	131	30	50	100	6.6	4.50	8.0	42000	1.076	11341.9
29-Nov-16 21:30:00	48	10.6	135	30	52	100	6.6	4.50	8.0	42000	1.077	11342.2
29-Nov-16 21:45:00	48	10.6	132	30	50	100	6.6	4.50	8.0	42000	1.079	11342.5
29-Nov-16 22:00:00	48	10.6	129	30	50	100	6.6	4.50	8.0	42000	1.075	11342.9
29-Nov-16 22:15:00	48	11.0	129	29	50	100	6.6	4.50	8.0	42000	1.077	11343.2
29-Nov-16 22:30:00	48	13.6	128	29	50	100	6.6	4.50	8.0	42000	1.073	11343.6
29-Nov-16 22:45:00	48	13.6	128	29	50	100	6.6	4.50	8.0	42000	1.083	11343.9
29-Nov-16 23:00:00	BSW 100% no solids, H2S 10ppm, CO2 4%, Gas SG 0.642											
29-Nov-16 23:00:00	48	13.6	132	29	52	100	6.5	4.00	10.0	41000	1.076	11344.3
29-Nov-16 23:00:01	Water sample from VX: pH=6.5 Electrical Conductivity=58.28mS@22.7degC,Water Density=1012.2kg/m3@25.1DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-209.7mV2, Salinity=41000ppm.											
29-Nov-16 23:15:00	48	13.4	131	29	51	100	6.5	4.00	10.0	41000	1.080	11344.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
29-Nov-16 23:30:00	48	10.4	133	30	50	100	6.5	4.00	10.0	41000	1.082	11345.2
29-Nov-16 23:45:00	48	10.4	133	30	50	100	6.5	4.00	10.0	41000	1.073	11345.7
30-Nov-16 00:00:00	48	10.4	132	29	50	100	6.5	4.00	10.0	41000	1.076	11346.1
30-Nov-16 00:15:00	48	10.4	132	29	50	100	6.5	4.00	10.0	41000	1.080	11346.6
30-Nov-16 00:30:00	48	10.4	132	29	50	100	6.5	4.00	10.0	41000	1.078	11347.0
30-Nov-16 00:45:00	48	10.4	130	29	50	100	6.5	4.00	10.0	41000	1.075	11347.5
30-Nov-16 01:00:00	48	10.4	130	29	50	100	6.5	4.00	10.0	41000	1.080	11348.0
30-Nov-16 01:15:00	48	10.6	131	29	50	100	6.5	4.00	10.0	41000	1.078	11348.4
30-Nov-16 01:30:00	48	10.4	135	29	52	100	6.5	4.00	10.0	41000	1.077	11348.9
30-Nov-16 01:45:00	48	10.4	133	29	50	100	6.5	4.00	10.0	41000	1.080	11349.3
30-Nov-16 02:00:00	Gas SG 0.640.											
30-Nov-16 02:00:00	48	10.4	131	29	50	100	6.5	4.00	10.0	41000	1.082	11349.8
30-Nov-16 02:15:00	48	10.6	129	29	50	100	6.5	4.00	10.0	41000	1.078	11350.1
30-Nov-16 02:30:00	48	10.5	129	29	50	100	6.5	4.00	10.0	41000	1.084	11350.5
30-Nov-16 02:45:00	48	10.6	131	29	50	100	6.5	4.00	10.0	41000	1.082	11350.8
30-Nov-16 03:00:00	Pumped 31.28 bbls from tank to pond.											
30-Nov-16 03:00:00	48	10.4	131	29	50	100	6.5	4.00	10.0	41000	1.081	11351.2
30-Nov-16 03:15:00	48	10.4	132	29	50	100	6.5	4.00	10.0	41000	1.079	11351.6
30-Nov-16 03:30:00	48	10.6	131	29	50	100	6.5	4.00	10.0	41000	1.078	11352.1
30-Nov-16 03:45:00	48	10.6	132	29	50	100	6.5	4.00	10.0	41000	1.081	11352.6
30-Nov-16 04:00:00	48	10.6	130	29	50	100	6.5	4.00	10.0	41000	1.083	11353.0
30-Nov-16 04:15:00	48	10.6	131	29	50	100	6.5	4.00	10.0	41000	1.075	11353.5
30-Nov-16 04:30:00	48	10.6	130	29	50	100	6.5	4.00	10.0	41000	1.083	11353.9
30-Nov-16 04:45:00	48	10.6	130	29	50	100	6.5	4.00	10.0	41000	1.080	11354.4
30-Nov-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
30-Nov-16 05:00:00	48	10.6	132	28	50	100	6.6	4.00	8.0	41000	1.080	11354.9
30-Nov-16 05:00:01	Water sample from VX: pH=6.6 Electrical Conductivity=59.83mS@23.9degC,Water Density=1012.4kg/m3@26.5DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-191.7mV2, Salinity=41000ppm.											
30-Nov-16 05:15:00	48	10.6	129	29	50	100	6.6	4.00	8.0	41000	1.083	11355.2
30-Nov-16 05:30:00	48	10.6	133	29	50	100	6.6	4.00	8.0	41000	1.073	11355.5
30-Nov-16 05:45:00	48	10.7	133	29	50	100	6.6	4.00	8.0	41000	1.082	11355.9
30-Nov-16 06:00:00	48	12.4	131	29	50	100	6.6	4.00	8.0	41000	1.080	11356.2
30-Nov-16 06:15:00	48	12.9	133	29	50	100	6.6	4.00	8.0	41000	1.079	11356.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
30-Nov-16 06:30:00	48	10.4	131	29	50	100	6.6	4.00	8.0	41000	1.085	11356.9
30-Nov-16 06:45:00	48	10.6	132	30	50	100	6.6	4.00	8.0	41000	1.077	11357.3
30-Nov-16 07:00:00	48	10.4	133	30	50	100	6.6	4.00	8.0	41000	1.080	11357.6
30-Nov-16 07:15:00	48	10.4	133	30	51	100	6.6	4.00	8.0	41000	1.079	11358.0
30-Nov-16 07:30:00	48	10.4	135	31	50	100	6.6	4.00	8.0	41000	1.082	11358.3
30-Nov-16 07:45:00	48	10.3	134	32	49	100	6.6	4.00	8.0	41000	1.080	11358.6
30-Nov-16 08:00:00	Gas SG 0.642.											
30-Nov-16 08:00:00	48	10.2	134	32	50	100	6.6	4.00	8.0	41000	1.088	11359.0
30-Nov-16 08:15:00	48	7.6	131	32	49	100	6.6	4.00	8.0	41000	1.074	11359.5
30-Nov-16 08:30:00	48	8.0	130	33	49	100	6.6	4.00	8.0	41000	1.084	11359.9
30-Nov-16 08:45:00	48	7.3	134	33	50	100	6.6	4.00	8.0	41000	1.086	11360.4
30-Nov-16 09:00:00	48	7.3	129	34	49	100	6.6	4.00	8.0	41000	1.082	11360.8
30-Nov-16 09:15:00	48	7.3	131	35	49	100	6.6	4.00	8.0	41000	1.082	11361.3
30-Nov-16 09:30:00	48	7.3	136	35	50	100	6.6	4.00	8.0	41000	1.085	11361.8
30-Nov-16 09:45:00	48	7.3	134	35	50	100	6.6	4.00	8.0	41000	1.084	11362.2
30-Nov-16 10:00:00	48	7.3	136	36	50	100	6.6	4.00	8.0	41000	1.079	11362.7
30-Nov-16 10:15:00	48	7.3	135	37	50	100	6.6	4.00	8.0	41000	1.091	11362.9
30-Nov-16 10:30:00	48	7.5	133	37	51	100	6.6	4.00	8.0	41000	1.085	11363.1
30-Nov-16 10:45:00	48	7.3	133	37	50	100	6.6	4.00	8.0	41000	1.086	11363.4
30-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
30-Nov-16 11:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=67.5.m/S@29.6degC,Water Density=1011.9kg/m3@29.9DegC, Dissolved Oxygen=2.1%, Oxidation Reduction Potential=-169.2mV2, Salinity=42000ppm.											
30-Nov-16 11:00:00	48	7.5	134	37	50	100	6.6	4.00	8.0	42000	1.087	11363.6
30-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.											
30-Nov-16 11:15:00	48	7.3	133	38	49	100	6.6	4.00	8.0	42000	1.084	11363.9
30-Nov-16 11:30:00	48	7.2	131	38	51	100	6.6	4.00	8.0	42000	1.084	11364.3
30-Nov-16 11:45:00	48	6.2	133	39	49	100	6.6	4.00	8.0	42000	1.083	11364.6
30-Nov-16 12:00:00	48	4.7	134	39	50	100	6.6	4.00	8.0	42000	1.082	11365.0
30-Nov-16 12:15:00	48	4.8	134	39	51	100	6.6	4.00	8.0	42000	1.088	11365.3
30-Nov-16 12:30:00	48	4.5	135	39	51	100	6.6	4.00	8.0	42000	1.085	11365.7
30-Nov-16 12:45:00	48	4.5	134	40	51	100	6.6	4.00	8.0	42000	1.087	11366.0
30-Nov-16 13:00:00	48	4.5	135	40	51	100	6.6	4.00	8.0	42000	1.081	11366.4
30-Nov-16 13:15:00	48	4.5	135	39	51	100	6.6	4.00	8.0	42000	1.086	11366.7

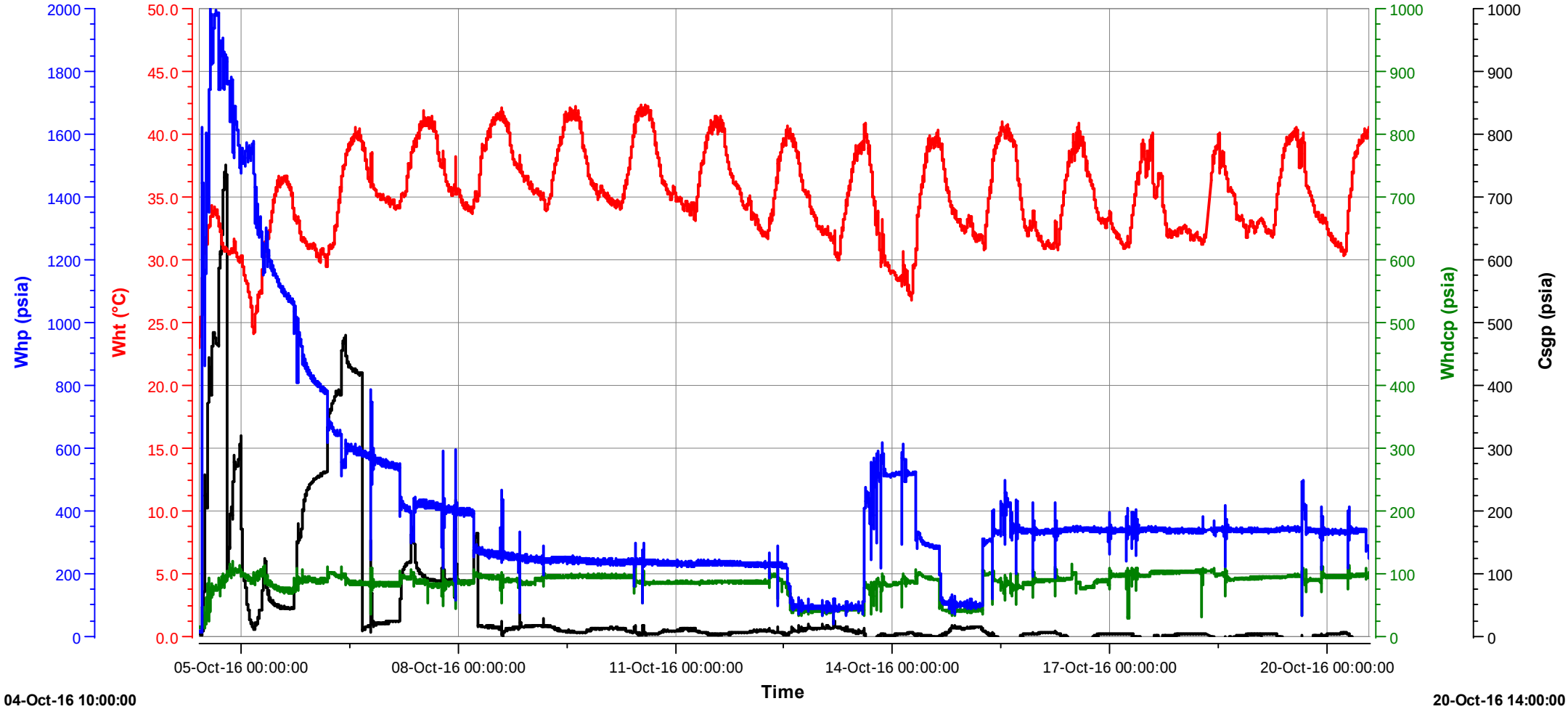
Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Date Time	ChokeSize	Csgp	Whp	Wht	Whdcp	BSW	PH	WhCO2	WhH2S	WhSalinity	GasQ	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(psia)	(°C)	(psia)	(%)		(%)	(ppm)	(ppm)	(MMscf/d)	(STB)
30-Nov-16 13:30:00	48	4.5	134	40	51	100	6.6	4.00	8.0	42000	1.086	11367.0
30-Nov-16 13:45:00	48	4.5	133	40	51	100	6.6	4.00	8.0	42000	1.087	11367.4
30-Nov-16 14:00:00	Gas SG 0.642.											
30-Nov-16 14:00:00	48	4.6	133	40	51	100	6.6	4.00	8.0	42000	1.088	11367.7
30-Nov-16 14:15:00	48	4.5	137	41	52	100	6.6	4.00	8.0	42000	1.083	11368.1
30-Nov-16 14:30:00	48	4.5	136	41	51	100	6.6	4.00	8.0	42000	1.086	11368.4
30-Nov-16 14:45:00	48	4.7	134	40	50	100	6.6	4.00	8.0	42000	1.088	11368.8
30-Nov-16 15:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG0.642.											
30-Nov-16 15:00:00	48	4.7	133	40	51	100	6.6	4.00	8.0	42000	1.085	11369.1
30-Nov-16 15:00:01	Took Isotube sample #40 from separator gas line at 44psia 38.5degC.											
30-Nov-16 15:00:02	Took ALS sample from separator oil line, PH 6.3, EC 74.6m/s @ 35degC, 11369 bbls returned.											
30-Nov-16 15:00:03	Water sample from VX: pH=6.6 Electrical Conductivity=69.8m/S@31.4degC,Water Density=1011.4kg/m3@33DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-223.1mV2, Salinity=42000ppm.											
30-Nov-16 15:15:00	48	4.7	132	39	51	100	6.6	4.00	8.0	42000	1.088	11369.7
30-Nov-16 15:30:00	48	4.7	129	39	51	100	6.6	4.00	8.0	42000	1.081	11370.3
30-Nov-16 15:45:00	48	4.7	131	39	51	100	6.6	4.00	8.0	42000	1.084	11370.8
30-Nov-16 16:00:00	48	4.7	132	39	51	100	6.6	4.00	8.0	42000	1.082	11371.4
30-Nov-16 16:15:00	48	4.7	136	39	52	100	6.6	4.00	8.0	42000	1.085	11371.6
30-Nov-16 16:30:00	48	4.7	133	38	52	100	6.6	4.00	8.0	42000	1.090	11371.9
30-Nov-16 16:45:00	48	4.7	136	38	52	100	6.6	4.00	8.0	42000	1.086	11372.1
30-Nov-16 16:55:00	Raised 2" Orifice Plate.											
30-Nov-16 16:55:00	End of MP.											
30-Nov-16 17:00:00	48	4.7	134	38	50	100	6.6	4.00	8.0	42000		11372.3
30-Nov-16 17:02:28	Shut in well at production wing valve.											
30-Nov-16 17:03:00	Inflow test production wing valve.											
30-Nov-16 17:03:00	End of FP #6.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #1 EPT Flow - Graph

Flow on various choke sizes

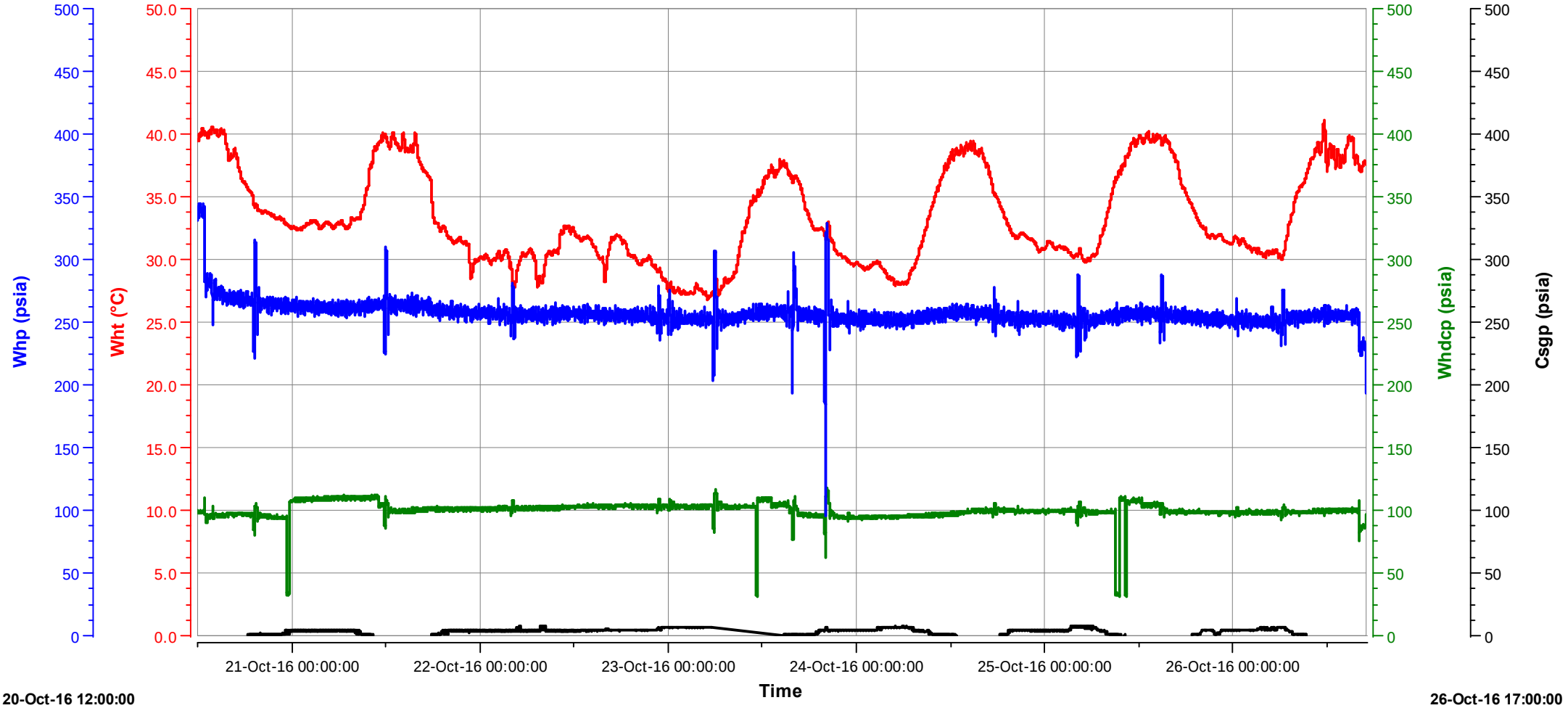


Whp [Range : (0 00 : 2000.00) (psia)]
Wht [Range : (0.00 : 50.00) (°C)]
Whdcp [Range : (0.00 : 1000 00) (psia)]
Csgp [Range : (-0.00 : 1000 00) (psia)]

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #2 EPT Flow - Graph

Flow on 32/64" Fixed Choke

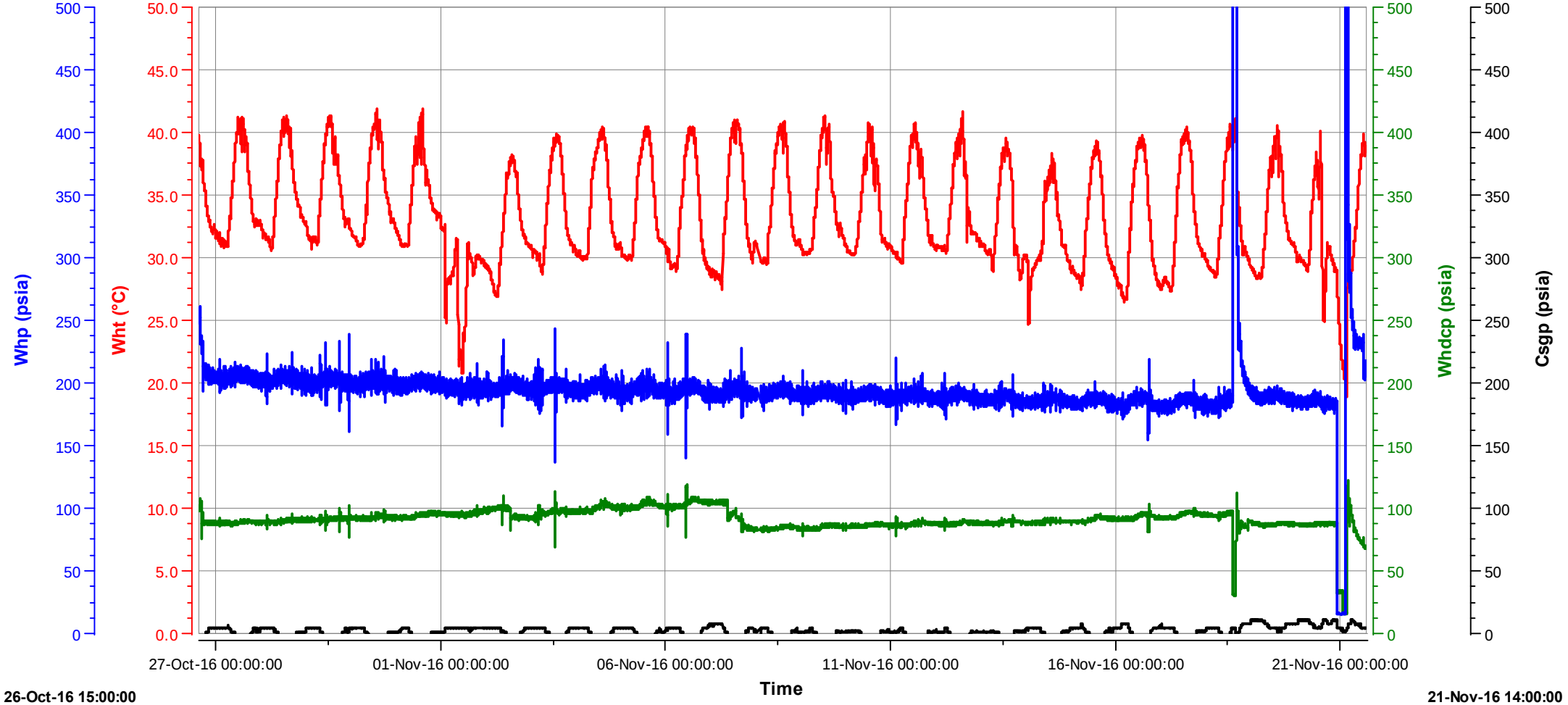


Whp [Range : (0 00 : 500.00) (psia)]
Wht [Range : (0.00 : 50.00) (°C)]
Whdcp [Range : (0.00 : 500.00) (psia)]
Csgp [Range : (0.00 : 500 00) (psia)]

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #3 EPT Flow - Graph

Flow on 36/64" Fixed Choke

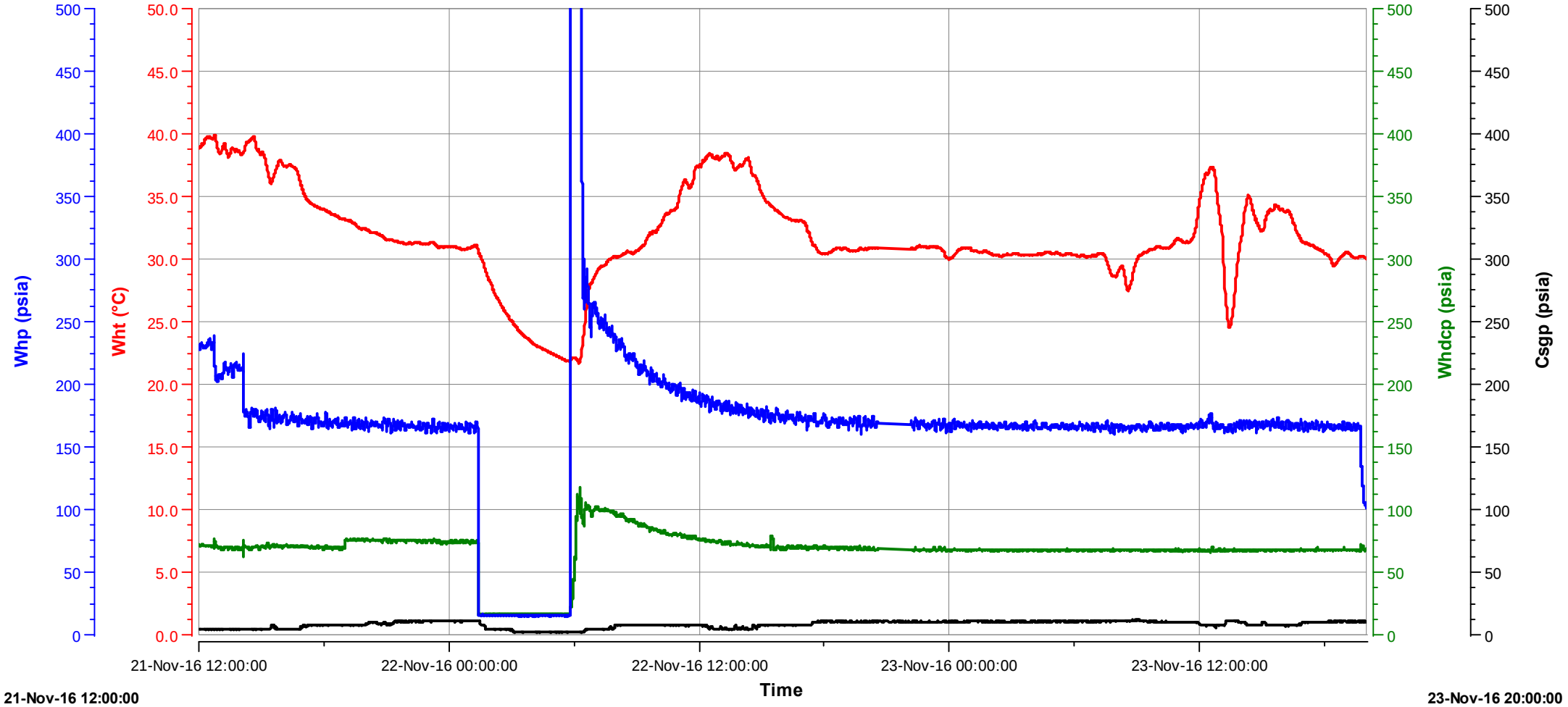


Whp [Range : (0 00 : 500.00) (psia)]
Wht [Range : (0.00 : 50.00) (°C)]
Whdcp [Range : (0.00 : 500.00) (psia)]
Csgp [Range : (-0.00 : 500 00) (psia)]

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #4 EPT Flow - Graph

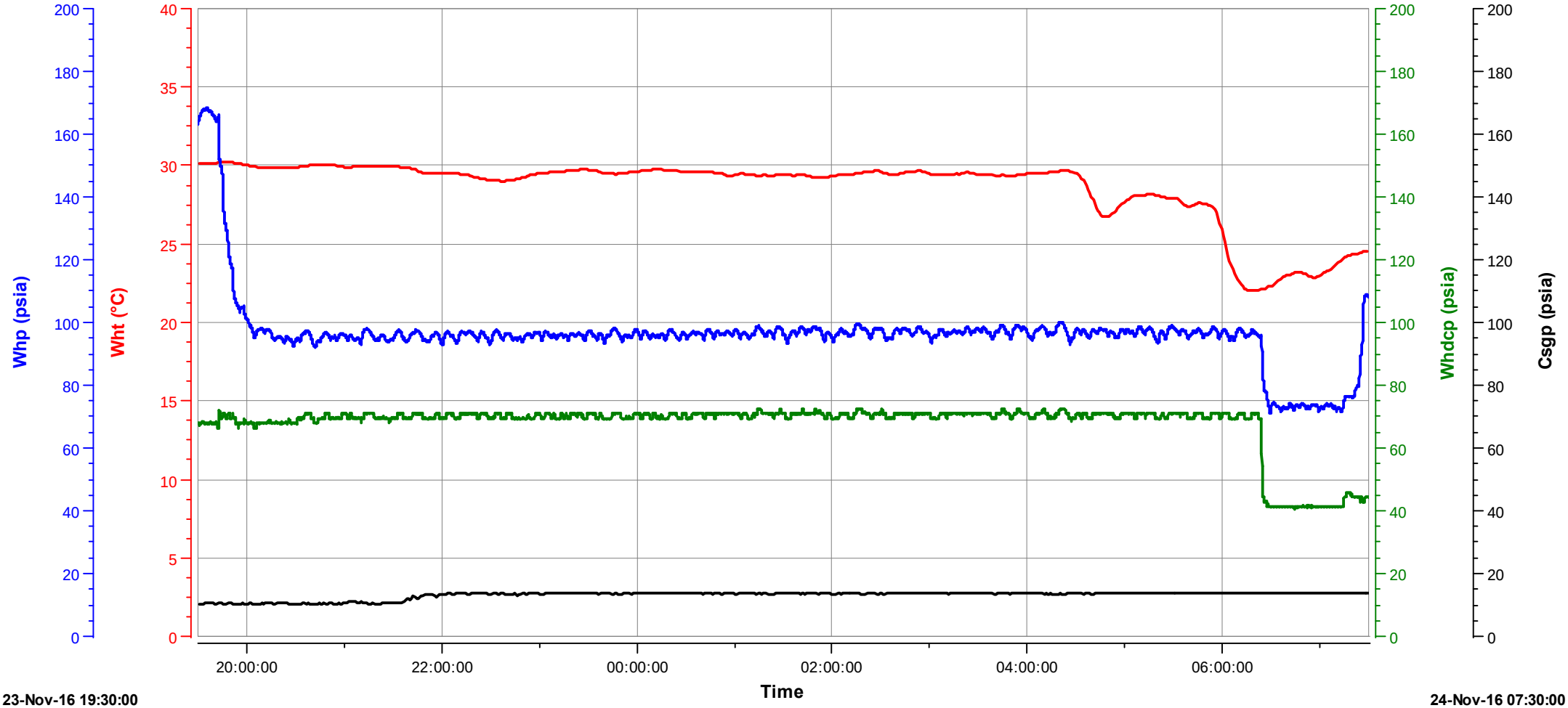
Flow on 40/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #5 EPT Flow - Graph

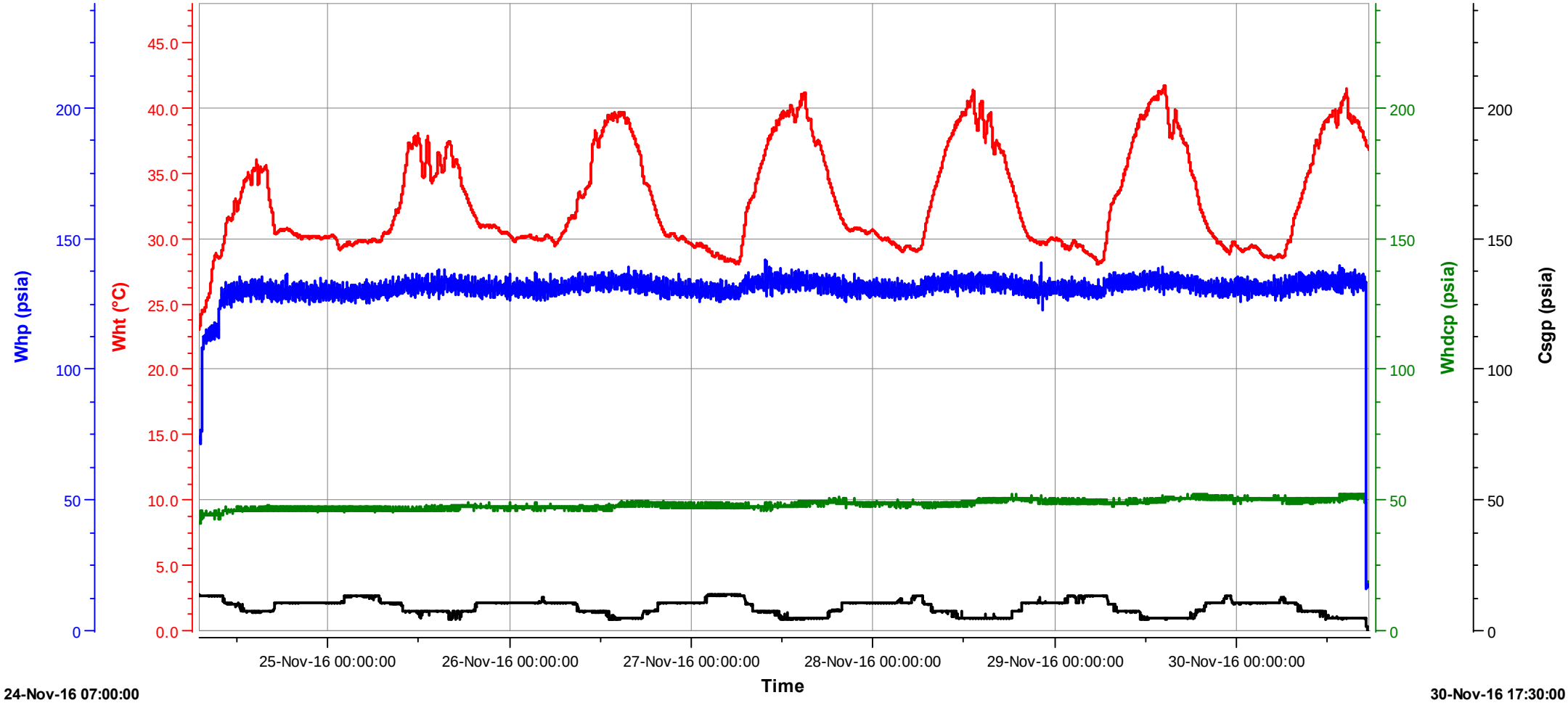
Flow on 128/64" Adjustable Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #6 EPT Flow - Graph

Flow on 48/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Separator and Vx Results

Oil Company : Origin Energy
Country : Australia
Field : Beetaloo
Well : Amungee NW-1H
Test Type : Extended Production Test
Test Date : 4 Oct to 30 Nov 2016
Report Number : 2016-10

Client Representative : Edward Wong
Schlumberger Representative : Mark Robertson

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

FP #1 EPT Flow - Data

Flow on various choke sizes

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
04-Oct-16 10:54:00	FP #1 Extended Production Test Flow on various choke sizes.											
04-Oct-16 10:54:00	Open well at Choke manifold on 8/64" adjustable choke through Seperator to Tank.											
04-Oct-16 10:54:00	8	14	27		997	36	4	0.550	0	6.64	6059.0	
04-Oct-16 10:55:00	Increased adjustable choke to 10/64".											
04-Oct-16 10:56:00	Put upstream lo-pilot on line.											
04-Oct-16 11:00:00	10	17	27		997	36	4	0.550	0	6.64	6059.0	
04-Oct-16 11:15:00	10	44	27		997	36	4	0.550	0	6.64	6059.0	
04-Oct-16 11:30:00	Gas sample taken SG=0.638, CO2=3.2%, H2S=0ppm.											
04-Oct-16 11:30:00	10	40	24		997	36	4	0.550	0	6.64	6059.0	
04-Oct-16 11:45:00	10	34	23		937	36	4	0.514	0	6.64	6059.0	
04-Oct-16 11:52:00	Rocked choke debris in choke.											
04-Oct-16 12:00:00	Water slug on surface											
04-Oct-16 12:00:00	10	14	23		1047	37	17	0.048	340	6.65	6060.4	
04-Oct-16 12:02:00	Increased adjustable choke to 12/64".											
04-Oct-16 12:05:00	Increased adjustable choke to 14/64".											
04-Oct-16 12:15:00	14	43	26		1340	37	20	0.176	553	6.65	6066.8	
04-Oct-16 12:30:00	14	42	27		1567	38	18	0.149	368	6.65	6071.4	6290.5
04-Oct-16 12:45:00	BSW=100%, CO2=3.8%, H2S=0ppm.											
04-Oct-16 12:45:00	14	54	30		1468	39	16	0.302	210	6.66	6072.6	6291.8
04-Oct-16 13:00:00	14	72	31		1380	39	8	0.828	4	6.66	6073.7	6293.1
04-Oct-16 13:10:00	Water slug on surface.											
04-Oct-16 13:15:00	BSW=100% water, CO2=3.8%, H2S=0ppm, Gas SG=0.634.											
04-Oct-16 13:15:00	14	59	30		1482	39	10	0.546	97	6.67	6075.5	6294.4
04-Oct-16 13:30:00	14	40	33		1749	39	15	0.305	249	6.67	6078.1	6295.7
04-Oct-16 13:45:00	14	48	34		1965	40	19	0.097	113	6.67	6080.1	6296.9
04-Oct-16 14:00:00	BSW=100% water, pH=6, CO2=3.8%, H2S=0ppm, Gas SG=0.634.											
04-Oct-16 14:00:00	Electrical Conductivity=20.64mS, Water Density=993.1 kg/m3 @36.7degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-354 mV2.											
04-Oct-16 14:00:00	14	69	33		1952	40	12	0.681	110	6.68	6082.1	6298.2
04-Oct-16 14:15:00	14	76	29		1815	40	13	0.706	125	6.68	6083.1	6299.5
04-Oct-16 14:30:00	14	72	28		1844	40	15	0.703	141	6.69	6084.4	6300.8
04-Oct-16 14:45:00	14	74	29		1917	40	16	0.672	168	6.70	6086.1	6302.1
04-Oct-16 15:00:00	BSW=100% water, pH=6.5, CO2=4%, H2S=0ppm, Gas SG=0.636.											
04-Oct-16 15:00:00	Electrical Conductivity=20.64mS, Water Density=1002.8 kg/m3 @30 degC, Dissolved Oxygen=0.8%S, Oxidation Reduction Potential=-382.6 mV2.											
04-Oct-16 15:00:00	14	75	28		1939	40	15	0.761	120	6.70	6087.6	6303.4
04-Oct-16 15:15:00	14	78	27		1966	40	14	0.767	97	6.71	6088.8	6304.6
04-Oct-16 15:30:00	14	77	25		1976	40	13	0.766	93	6.72	6089.9	6305.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
04-Oct-16 15:45:00	14	75	23		1974	40	12	0.837	68	6.73	6090.9	6307.2
04-Oct-16 16:00:00	Took Isotube gas sample #16 @ 60 psi, 25 degC.											
04-Oct-16 16:00:00	14	76	22		1970	40	14	0.780	99	6.74	6091.8	6308.5
04-Oct-16 16:15:00	14	76	21		1972	39	13	0.796	83	6.74	6092.8	6309.8
04-Oct-16 16:20:00	Increased adjustable choke to 15/64".											
04-Oct-16 16:30:00	15	79	20		1809	39	24	1.155	116	6.76	6093.9	6311.1
04-Oct-16 16:45:00	15	62	20		1768	39	26	0.896	235	6.77	6095.0	6312.3
04-Oct-16 17:00:00	BSW=100% water, pH=7, CO2=3%, H2S=4ppm, Gas SG=0.638.											
04-Oct-16 17:00:00	Electrical Conductivity=38.64mS, Water Density=1010.5 kg/m3 @29.4 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-211 mV2.											
04-Oct-16 17:00:00	15	84	24		1873	39	26	1.083	158	6.78	6096.9	6313.6
04-Oct-16 17:15:00	15	87	21		1840	38	22	1.231	80	6.79	6098.2	6314.9
04-Oct-16 17:30:00	15	80	20		1865	38	23	1.135	118	6.80	6099.5	6316.2
04-Oct-16 17:45:00	15	85	19		1882	38	24	1.187	104	6.81	6100.8	6317.5
04-Oct-16 17:50:00	Increased adjustable choke to 16/64".											
04-Oct-16 18:00:00	BSW=100%, pH=7, CO2=3%, H2S=4ppm, Gas SG=0.638.											
04-Oct-16 18:00:00	16	87	16		1764	38	31	1.518	91	6.83	6102.0	6318.8
04-Oct-16 18:15:00	16	83	18		1801	38	32	1.297	151	6.84	6103.4	6320.0
04-Oct-16 18:30:00	16	89	18		1850	38	29	1.330	116	6.86	6104.8	6321.3
04-Oct-16 18:45:00	16	95	14		1811	38	30	1.470	88	6.87	6105.5	6322.6
04-Oct-16 19:00:00	Started bleeding off casing pressure.											
04-Oct-16 19:00:00	Electrical Conductivity=39.1mS, Water Density=1011.6 kg/m3 @27.6 degC, Dissolved Oxygen=0.3%S, Oxidation Reduction Potential=-198.3 mV2.											
04-Oct-16 19:00:00	BSW=100%, pH=7, CO2=3%, H2S=2ppm, Gas SG=0.644.											
04-Oct-16 19:00:00	16	92	13		1818	38	33	1.307	157	6.88	6106.6	6323.9
04-Oct-16 19:03:00	Increased adjustable choke to 17/64".											
04-Oct-16 19:10:00	Stopped bleeding off casing pressure.											
04-Oct-16 19:15:00	17	96	13		1783	38	34	1.581	91	6.90	6107.7	6325.2
04-Oct-16 19:30:00	17	96	12		1752	38	36	1.608	102	6.91	6108.7	6326.5
04-Oct-16 19:45:00	17	95	12		1760	38	35	1.591	95	6.93	6109.8	6327.7
04-Oct-16 20:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.644.											
04-Oct-16 20:00:00	17	98	12		1757	38	36	1.643	97	6.95	6110.8	6329.0
04-Oct-16 20:08:00	Increased adjustable choke to 18/64".											
04-Oct-16 20:15:00	18	95	12		1674	38	46	1.869	83	6.97	6111.8	6330.3
04-Oct-16 20:30:00	18	95	13		1696	38	35	1.635	80	6.98	6112.8	6331.6
04-Oct-16 20:45:00	18	102	13		1757	38	37	1.639	97	7.00	6113.8	6332.9
04-Oct-16 21:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.642.											
04-Oct-16 21:00:00	Electrical Conductivity=22.24mS, Water Density=1016.3 kg/m3 @17 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-191.8 mV2.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
04-Oct-16 21:00:00	18	103	12		1729	38	38	1.788	72	7.02	6114.8	6334.1
04-Oct-16 21:06:00	Increased adjustable choke to 19/64".											
04-Oct-16 21:15:00	19	98	10		1559	38	49	2.288	33	7.04	6115.6	6335.3
04-Oct-16 21:30:00	19	96	14		1607	39	50	1.844	140	7.06	6116.6	6336.5
04-Oct-16 21:45:00	19	101	15		1675	39	46	1.956	81	7.08	6117.6	6337.7
04-Oct-16 22:00:00	BSW=100%, pH=7, CO2=3%, H2S=3ppm, Gas SG=0.642.											
04-Oct-16 22:00:00	19	106	12		1645	38	42	1.998	41	7.10	6118.3	6338.8
04-Oct-16 22:15:00	19	101	10		1630	38	42	1.938	68	7.12	6118.9	6339.5
04-Oct-16 22:30:00	19	102	11		1622	38	42	1.880	70	7.14	6119.5	6340.2
04-Oct-16 22:45:00	19	101	10		1599	38	41	2.083	24	7.16	6120.0	6340.9
04-Oct-16 23:00:00	Gas Sample Taken CO2=2.5%, H2S=2ppm, Gas SG=0.642.											
04-Oct-16 23:00:00	19	103	10		1573	38	45	2.065	54	7.19	6120.5	6341.6
04-Oct-16 23:15:00	19	103	11		1544	38	44	2.157	18	7.21	6120.9	6342.4
04-Oct-16 23:30:00	19	104	12		1515	38	48	2.109	62	7.23	6121.4	6343.3
04-Oct-16 23:37:00	Decreased adjustable choke to 18/64".											
04-Oct-16 23:38:00	Decreased adjustable choke to 17/64".											
04-Oct-16 23:40:00	Decreased adjustable choke to 16/64".											
04-Oct-16 23:42:00	Decreased adjustable choke to 15/64".											
04-Oct-16 23:45:00	15	97	13		1481	38	50	2.234	25	7.25	6121.9	6344.2
04-Oct-16 23:49:00	Started bleeding off casing pressure.											
04-Oct-16 23:51:00	Decreased adjustable choke to 14/64".											
05-Oct-16 00:00:00	Gas Sample Taken CO2=3%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 00:00:00	14	94	13									6345.1
05-Oct-16 00:15:00	14	98	12		1541	38	43	2.054	37	7.29	6122.6	6345.7
05-Oct-16 00:18:00	Stopped bleeding off casing pressure.											
05-Oct-16 00:30:00	14	98	11		1503	37	41	2.051	13	7.31	6122.9	6346.2
05-Oct-16 00:36:00	Decreased adjustable choke to 13/64".											
05-Oct-16 00:45:00	13	95	10		1512	37	38	1.930	29	7.33	6123.1	6346.8
05-Oct-16 01:00:00	Gas Sample Taken CO2=3%, H2S=2ppm, Gas SG=0.643.											
05-Oct-16 01:00:00	13	96	10		1510	37	37	2.059	7	7.36	6123.3	6347.4
05-Oct-16 01:15:00	13	95	9		1487	37	36	2.045	1	7.38	6123.5	6348.1
05-Oct-16 01:17:00	Decreased adjustable choke to 12/64".											
05-Oct-16 01:30:00	12	92	8		1536	36	26	1.572	35	7.39	6123.6	6348.8
05-Oct-16 01:45:00	12	95	8		1560	36	27	1.623	22	7.41	6123.9	6349.5
05-Oct-16 02:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.643.											
05-Oct-16 02:00:00	12	95	7		1539	36	26	1.560	22	7.43	6124.1	6350.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
05-Oct-16 02:15:00	12	93	6		1508	35	25	1.660	5	7.44	6124.2	6350.8
05-Oct-16 02:24:00	Decreased adjustable choke to 11/64".											
05-Oct-16 02:30:00	11	90	6		1520	35	19	1.404	8	7.46	6124.3	6351.5
05-Oct-16 02:45:00	11	92	6		1551	35	18	1.393	12	7.48	6124.6	6352.2
05-Oct-16 03:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 03:00:00	11	91	5		1533	34	19	1.356	20	7.49	6124.7	6352.9
05-Oct-16 03:15:00	Decreased adjustable choke to 10/64".											
05-Oct-16 03:15:00	10	91	4		1503	34	17	1.440	0	7.50	6124.8	6353.2
05-Oct-16 03:30:00	10	85	3		1533	33	12	1.192	0	7.52	6124.8	6353.6
05-Oct-16 03:45:00	10	84	2		1555	33	11	1.056	6	7.53	6124.9	6354.0
05-Oct-16 04:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 04:00:00	10	85	3		1565	32	11	1.006	13	7.54	6125.0	6354.3
05-Oct-16 04:11:00	Increased adjustable choke to 12/64".											
05-Oct-16 04:15:00	12	97	3		1475	32	23	1.560	11	7.55	6125.1	6354.8
05-Oct-16 04:24:00	Decreased adjustable choke to 11/64".											
05-Oct-16 04:30:00	11	87	4		1312	32	16	1.364	0	7.57	6125.2	6355.3
05-Oct-16 04:37:00	Increased adjustable choke to 12/64".											
05-Oct-16 04:45:00	12	93	8		1416	34	19	1.295	30	7.58	6126.0	6355.8
05-Oct-16 05:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 05:00:00	12	94	10		1397	34	18	1.407	5	7.59	6126.2	6356.3
05-Oct-16 05:01:00	Increased adjustable choke to 13/64".											
05-Oct-16 05:15:00	13	90	10		1272	34	27	1.370	63	7.61	6126.7	6357.4
05-Oct-16 05:30:00	13	93	15		1358	35	27	1.355	69	7.62	6127.6	6358.6
05-Oct-16 05:33:00	Increased adjustable choke to 14/64".											
05-Oct-16 05:45:00	14	100	15		1285	35	31	1.539	55	7.64	6128.3	6359.8
05-Oct-16 06:00:00	Gas Sample Taken CO2=2%, H2S=2ppm, Gas SG=0.642.											
05-Oct-16 06:00:00	14	93	16		1310	36	32	1.450	78	7.65	6129.0	6361.0
05-Oct-16 06:15:00	14	99	16		1319	36	30	1.601	32	7.67	6129.6	6362.1
05-Oct-16 06:30:00	14	97	15		1296	35	30	1.488	45	7.68	6130.0	6363.3
05-Oct-16 06:34:00	Increased adjustable choke to 15/64".											
05-Oct-16 06:45:00	15	98	16		1217	36	40	1.729	49	7.70	6130.6	6364.5
05-Oct-16 07:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 07:00:00	15	96	18		1227	37	43	1.701	78	7.72	6131.4	6365.6
05-Oct-16 07:13:00	Increased adjustable choke to 16/64".											
05-Oct-16 07:15:00	16	106	19		1191	38	54	1.946	79	7.74	6132.2	6366.6
05-Oct-16 07:30:00	16	98	20		1141	38	54	1.764	105	7.76	6132.9	6367.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
05-Oct-16 07:45:00	16	99	22		1184	39	50	1.906	64	7.78	6134.0	6368.6
05-Oct-16 07:54:00	Switched flow to 16/64" fixed choke.											
05-Oct-16 08:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 08:00:00	16	89	21		1213	39	29	1.593	13	7.79	6134.5	6369.5
05-Oct-16 08:15:00	16	89	20		1281	39	31	1.606	28	7.81	6134.8	6370.5
05-Oct-16 08:30:00	16	95	20		1256	39	31	1.649	14	7.83	6135.2	6371.5
05-Oct-16 08:45:00	16	93	18		1167	39	30	1.659	4	7.84	6135.3	6372.5
05-Oct-16 09:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 09:00:00	16	84	20		1206	39	29	1.499	26	7.86	6135.7	6373.4
05-Oct-16 09:15:00	16	87	21		1199	39	30	1.510	40	7.87	6136.1	6374.5
05-Oct-16 09:30:00	16	81	21		1164	39	28	1.443	32	7.89	6136.5	6375.6
05-Oct-16 09:45:00	16	80	22		1181	40	29	1.350	65	7.90	6137.0	6376.6
05-Oct-16 10:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 10:00:00	16	83	23		1160	40	29	1.414	37	7.92	6137.5	6377.7
05-Oct-16 10:15:00	16	78	24		1152	41	28	1.421	30	7.93	6138.0	6378.6
05-Oct-16 10:30:00	16	79	24		1162	41	29	1.435	39	7.95	6138.5	6379.5
05-Oct-16 10:45:00	16	79	25		1136	41	28	1.371	37	7.96	6139.0	6380.4
05-Oct-16 11:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 11:00:00	16	74	26		1152	42	28	1.194	89	7.98	6139.7	6381.2
05-Oct-16 11:15:00	16	79	26		1133	42	28	1.414	37	7.99	6140.2	6382.0
05-Oct-16 11:30:00	16	75	26		1130	42	29	1.288	71	8.00	6140.9	6382.8
05-Oct-16 11:45:00	16	76	27		1130	42	29	1.259	69	8.02	6141.5	6383.6
05-Oct-16 12:00:00	Gas Sample Taken CO2=3.5%, H2S=3.5ppm, Gas SG=0.642.											
05-Oct-16 12:00:00	16	74	27		1118	42	28	1.275	53	8.03	6142.1	6384.4
05-Oct-16 12:15:00	16	75	28		1124	43	28	1.273	61	8.04	6142.8	6385.4
05-Oct-16 12:30:00	16	75	28		1110	43	29	1.256	57	8.06	6143.4	6386.5
05-Oct-16 12:45:00	16	75	29		1107	43	28	1.305	57	8.07	6144.1	6387.6
05-Oct-16 13:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640.											
05-Oct-16 13:00:00	16	76	29		1101	42	29	1.254	76	8.08	6144.7	6388.6
05-Oct-16 13:15:00	16	76	29		1090	43	28	1.367	32	8.10	6145.4	6389.7
05-Oct-16 13:30:00	16	74	30		1094	43	28	1.317	40	8.11	6146.1	6390.7
05-Oct-16 13:45:00	16	72	30		1094	43	27	1.288	45	8.12	6146.8	6391.7
05-Oct-16 14:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640.											
05-Oct-16 14:00:00	16	68	30		1095	43	26	1.121	87	8.13	6147.5	6392.7
05-Oct-16 14:15:00	16	72	30		1087	43	29	1.198	84	8.15	6148.2	6393.7
05-Oct-16 14:30:00	16	69	30		1083	43	28	1.190	76	8.16	6148.8	6394.7
05-Oct-16 14:45:00	16	73	31		1081	43	28	1.220	71	8.17	6149.5	6395.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
05-Oct-16 15:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.640. Water Density=1012.5 kg/m3 @ 28.4degC.											
05-Oct-16 15:00:00	16	72	30		1071	43	27	1.177	67	8.19	6150.2	6396.6
05-Oct-16 15:15:00	16	72	30		1070	42	28	1.193	73	8.20	6150.9	6397.8
05-Oct-16 15:30:00	16	71	31		1073	42	27	1.223	54	8.21	6151.7	6398.9
05-Oct-16 15:45:00	16	71	30		1062	42	27	1.178	66	8.22	6152.4	6400.0
05-Oct-16 16:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.											
05-Oct-16 16:00:00	Took Isotube gas sample #17 @ 78 psi, 32 degC.											
05-Oct-16 16:00:00	16	69	30		1070	42	27	1.136	84	8.24	6153.2	6401.1
05-Oct-16 16:15:00	16	71	30		1057	42	28	1.235	61	8.25	6153.9	6402.2
05-Oct-16 16:30:00	16	67	30		1062	42	27	1.143	75	8.26	6154.6	6403.3
05-Oct-16 16:45:00	16	67	30		1064	41	26	1.177	64	8.27	6155.4	6404.3
05-Oct-16 17:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.											
05-Oct-16 17:00:00	16	71	30		1054	41	28	1.246	60	8.28	6156.2	6405.4
05-Oct-16 17:15:00	16	69	30		1056	40	27	1.195	69	8.30	6157.0	6406.2
05-Oct-16 17:17:00	Switched flow to 18/64" adjustable choke.											
05-Oct-16 17:30:00	18	75	30		959	40	35	1.220	98	8.31	6158.0	6407.0
05-Oct-16 17:45:00	18	75	31		1039	40	36	1.291	103	8.32	6159.4	6407.8
05-Oct-16 18:00:00	Gas Sample Taken CO2=3.75%, H2S=3.5ppm, Gas SG=0.644.											
05-Oct-16 18:00:00	18	80	30		991	40	35	1.338	76	8.34	6160.3	6408.6
05-Oct-16 18:15:00	18	77	29		995	40	38	1.300	103	8.35	6161.3	6410.5
05-Oct-16 18:24:00	Increased adjustable choke to 20/64".											
05-Oct-16 18:30:00	18	88	29		882	40	69	1.656	142	8.37	6162.7	6412.4
05-Oct-16 18:45:00	18	74	30		963	40	55	1.292	203	8.38	6164.5	6414.4
05-Oct-16 19:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
05-Oct-16 19:00:00	18	92	30		978	40	48	1.588	84	8.40	6165.8	6416.4
05-Oct-16 19:15:00	18	84	28		950	39	49	1.468	95	8.41	6166.5	6417.7
05-Oct-16 19:30:00	18	88	28		949	39	47	1.571	69	8.43	6167.4	6419.1
05-Oct-16 19:45:00	18	84	27		923	39	48	1.420	112	8.44	6168.5	6420.4
05-Oct-16 20:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
05-Oct-16 20:00:00	18	87	27		916	39	50	1.507	94	8.46	6169.5	6421.8
05-Oct-16 20:07:00	Switched flow to 20/64" fixed choke.											
05-Oct-16 20:15:00	20	85	27		874	39	55	1.479	117	8.47	6170.7	6423.5
05-Oct-16 20:30:00	Took ALS water samples set #2 at Separator.											
05-Oct-16 20:30:00	20	89	28		886	39	57	1.493	124	8.49	6171.9	6425.1
05-Oct-16 20:45:00	20	89	27		860	39	53	1.431	115	8.51	6172.9	6426.8
05-Oct-16 21:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644. Water Density=1014.8 kg/m3 @ 21 degC.											
05-Oct-16 21:00:00	20	88	27		878	39	55	1.500	111	8.52	6174.1	6428.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
05-Oct-16 21:15:00	20	86	27		854	39	51	1.535	60	8.54	6175.1	6430.1
05-Oct-16 21:30:00	20	86	27		864	39	52	1.413	111	8.55	6176.3	6431.8
05-Oct-16 21:45:00	20	85	27		845	39	52	1.437	104	8.57	6177.3	6433.4
05-Oct-16 21:54:00	MP on 20/64" Fixed Choke.											
05-Oct-16 21:54:00	Lowered 1.75" orifice plate.											
05-Oct-16 22:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
05-Oct-16 22:00:00	20	88	27	1.289	843	39	50	1.454	90	8.58	6178.5	6435.1
05-Oct-16 22:15:00	20	86	27	1.274	845	39	48	1.349	112	8.60	6179.6	6436.6
05-Oct-16 22:30:00	20	87	27	1.267	838	39	49	1.372	111	8.61	6180.6	6438.2
05-Oct-16 22:45:00	20	85	27	1.255	834	39	49	1.378	113	8.63	6181.8	6439.8
05-Oct-16 23:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643.											
05-Oct-16 23:00:00	20	87	27	1.246	829	39	49	1.290	123	8.64	6182.9	6441.4
05-Oct-16 23:15:00	20	87	27	1.240	821	39	49	1.290	135	8.65	6184.0	6442.9
05-Oct-16 23:30:00	20	84	27	1.224	823	39	47	1.255	127	8.67	6185.2	6444.5
05-Oct-16 23:45:00	20	84	27	1.217	819	39	47	1.363	93	8.68	6186.3	6446.1
06-Oct-16 00:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643. Water Density=1013.8 kg/m3 @ 24.2 degC.											
06-Oct-16 00:00:00	20	85	27	1.217								6447.6
06-Oct-16 00:15:00	20	84	27	1.197	811	39	48	1.332	102	8.71	6188.3	6449.2
06-Oct-16 00:30:00	20	85	27	1.197	810	39	45	1.328	87	8.72	6189.3	6450.7
06-Oct-16 00:45:00	20	85	27	1.193	800	39	46	1.321	96	8.73	6190.5	6452.3
06-Oct-16 01:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.643. .											
06-Oct-16 01:00:00	20	82	27	1.178	803	38	48	1.304	112	8.75	6191.7	6453.9
06-Oct-16 01:15:00	20	85	27	1.172	795	38	49	1.354	87	8.76	6192.8	6455.4
06-Oct-16 01:30:00	20	85	27	1.170	792	38	48	1.375	80	8.77	6193.9	6457.0
06-Oct-16 01:45:00	20	82	27	1.162	797	38	46	1.200	131	8.79	6195.2	6458.5
06-Oct-16 02:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.645. Water Density=1014.0 kg/m3 @ 23.4 degC.											
06-Oct-16 02:00:00	20	84	26	1.163	790	38	47	1.266	111	8.80	6196.3	6460.1
06-Oct-16 02:15:00	20	83	26	1.155	788	38	46	1.321	95	8.81	6197.5	6462.0
06-Oct-16 02:30:00	20	83	26	1.157	785	38	45	1.192	115	8.83	6198.7	6464.0
06-Oct-16 02:45:00	20	84	27	1.147	791	39	44	1.212	107	8.84	6199.8	6465.9
06-Oct-16 03:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.645.											
06-Oct-16 03:00:00	20	83	26	1.150	788	39	43	1.168	121	8.85	6201.0	6467.9
06-Oct-16 03:15:00	20	85	27	1.145	790	39	45	1.258	103	8.87	6202.1	6469.3
06-Oct-16 03:30:00	20	85	27	1.154	779	38	44	1.259	92	8.88	6203.2	6470.6
06-Oct-16 03:45:00	20	87	27	1.139	778	38	44	1.308	75	8.89	6204.3	6472.0
06-Oct-16 04:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644. Water Density=1013.9 kg/m3 @ 23.5 degC.											
06-Oct-16 04:00:00	20	86	27	1.140	775	38	45	1.256	94	8.90	6205.4	6473.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
06-Oct-16 04:15:00	20	86	27	1.132	770	38	45	1.221	103	8.92	6206.5	6475.6
06-Oct-16 04:29:00	Lifted up orifice plate.											
06-Oct-16 04:29:00	End of MP.											
06-Oct-16 04:30:00	Switched flow to 20/64" adjustable choke.											
06-Oct-16 04:30:00	20	88	26		762	38	64	1.280	177	8.93	6207.8	6477.9
06-Oct-16 04:31:00	Increased adjustable choke to 22/64".											
06-Oct-16 04:45:00	22	89	27		645	39	79	1.276	230	8.95	6209.6	6480.2
06-Oct-16 05:00:00	Gas Sample Taken CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 05:00:00	22	98	29		678	40	73	1.361	184	8.96	6211.6	6482.5
06-Oct-16 05:15:00	22	98	29		679	40	78	1.379	220	8.97	6213.4	6484.5
06-Oct-16 05:30:00	22	100	29		678	40	70	1.556	94	8.99	6214.7	6486.4
06-Oct-16 05:45:00	22	99	29		676	40	72	1.445	140	9.00	6216.2	6488.4
06-Oct-16 06:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 06:00:00	Electrical Conductivity=40.28mS, Water Density=1014 kg/m3 @24.5 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-132.1 mV2.											
06-Oct-16 06:00:00	22	98	29		664	40	65	1.365	138	9.02	6217.7	6490.3
06-Oct-16 06:15:00	22	97	29		656	40	68	1.422	135	9.03	6219.1	6492.3
06-Oct-16 06:30:00	22	97	29		655	40	71	1.391	136	9.05	6220.5	6494.2
06-Oct-16 06:45:00	22	97	29		648	40	67	1.302	163	9.06	6221.9	6496.2
06-Oct-16 07:00:00	22	96	29		644	40	70	1.268	169	9.08	6223.3	6498.1
06-Oct-16 07:15:00	22	94	30		642	41	70	1.330	158	9.09	6224.8	6500.1
06-Oct-16 07:30:00	22	95	30		634	41	68	1.323	154	9.11	6226.4	6502.0
06-Oct-16 07:45:00	22	95	31		643	41	71	1.282	184	9.12	6227.9	6504.0
06-Oct-16 08:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 08:00:00	22	93	31		633	42	67	1.319	135	9.13	6229.4	6505.9
06-Oct-16 08:01:00	Electrical Conductivity=37.7mS, Water Density=1012.3 kg/m3 @29.1 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-134.9.1 mV2.											
06-Oct-16 08:15:00	22	93	32		635	42	67	1.290	153	9.15	6231.0	6507.8
06-Oct-16 08:30:00	22	93	32		643	42	70	1.283	182	9.16	6232.4	6509.7
06-Oct-16 08:45:00	22	92	33		634	43	62	1.229	154	9.17	6233.9	6511.5
06-Oct-16 09:00:00	BSW=100%, pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 09:00:00	22	92	33		627	43	67	1.316	130	9.19	6235.2	6513.4
06-Oct-16 09:03:00	Increased adjustable choke to 24/64".											
06-Oct-16 09:15:00	24	88	34		505	43	116	1.343	282	9.20	6237.3	6515.9
06-Oct-16 09:30:00	24	95	36		538	44	103	1.399	226	9.22	6239.8	6518.4
06-Oct-16 09:45:00	24	97	36		540	44	104	1.466	180	9.23	6242.0	6521.0
06-Oct-16 10:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 10:00:00	24	92	36		535	44	94	1.379	189	9.25	6243.9	6523.5
06-Oct-16 10:15:00	24	93	36		537	45	99	1.496	154	9.26	6245.7	6525.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
06-Oct-16 10:29:00	Switched flow to 24/64" fixed choke.											
06-Oct-16 10:30:00	24	84	36		554	45	68	1.270	155	9.28	6247.7	6528.0
06-Oct-16 10:45:00	24	89	36		611	45	75	1.379	144	9.29	6249.2	6530.2
06-Oct-16 11:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 11:00:00	24	84	36		586	45	74	1.294	155	9.31	6250.6	6532.5
06-Oct-16 11:15:00	24	85	36		584	45	72	1.329	131	9.32	6252.0	6534.0
06-Oct-16 11:30:00	24	84	37		592	45	75	1.228	202	9.33	6253.6	6535.6
06-Oct-16 11:45:00	24	84	37		581	46	76	1.254	161	9.35	6255.1	6537.1
06-Oct-16 12:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 12:00:00	Electrical Conductivity=47.3mS, Water Density=1014.3 kg/m3 @28.6 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-167.6 mV2.											
06-Oct-16 12:00:00	24	86	37		583	46	78	1.287	169	9.36	6256.7	6538.7
06-Oct-16 12:15:00	24	82	37		590	46	73	1.277	165	9.37	6258.3	6540.6
06-Oct-16 12:30:00	24	85	38		590	46	80	1.227	238	9.39	6260.0	6542.6
06-Oct-16 12:45:00	24	83	38		581	46	73	1.260	166	9.40	6261.5	6544.5
06-Oct-16 13:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 13:00:00	24	81	38		592	46	73	1.303	141	9.41	6263.3	6546.5
06-Oct-16 13:15:00	24	81	38		594	46	72	1.199	203	9.43	6265.1	6548.4
06-Oct-16 13:30:00	24	82	39		585	46	70	1.303	126	9.44	6266.6	6550.4
06-Oct-16 13:45:00	24	85	39		589	46	68	1.281	142	9.45	6268.2	6552.3
06-Oct-16 14:00:00	BSW=100% (trace solids), pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 14:00:00	24	82	39		579	46	71	1.304	119	9.47	6269.8	6554.3
06-Oct-16 14:15:00	24	83	39		581	46	69	1.207	184	9.48	6271.5	6556.2
06-Oct-16 14:30:00	24	80	39		588	46	75	1.210	198	9.49	6273.2	6558.2
06-Oct-16 14:45:00	24	82	39		577	46	72	1.247	168	9.51	6274.8	6560.1
06-Oct-16 15:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 15:00:00	24	83	39		581	46	72	1.283	149	9.52	6276.4	6562.1
06-Oct-16 15:15:00	24	80	39		584	46	75	1.201	198	9.53	6278.1	6564.1
06-Oct-16 15:30:00	24	82	39		575	46	69	1.364	103	9.55	6279.6	6566.0
06-Oct-16 15:45:00	24	79	39		578	46	75	1.243	177	9.56	6281.4	6568.0
06-Oct-16 16:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 16:00:00	Took Isotube gas sample #18 @ 84 psi, 39 degC.											
06-Oct-16 16:00:00	24	83	39		573	46	71	1.321	126	9.57	6283.0	6570.0
06-Oct-16 16:01:00	Bled off casing pressure to 0 psi.											
06-Oct-16 16:15:00	24	80	39		578	46	72	1.267	156	9.58	6284.6	6571.9
06-Oct-16 16:30:00	24	83	38		567	45	69	1.274	119	9.60	6286.2	6573.7
06-Oct-16 16:45:00	24	82	38		577	45	70	1.204	179	9.61	6287.9	6575.6
06-Oct-16 17:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
06-Oct-16 17:00:00	24	81	38		570	45	71	1.234	143	9.62	6289.3	6577.4
06-Oct-16 17:15:00	24	79	38		576	44	69	1.195	164	9.64	6290.9	6579.5
06-Oct-16 17:30:00	24	80	38		568	44	72	1.307	133	9.65	6292.4	6581.5
06-Oct-16 17:45:00	24	82	38		567	44	69	1.187	170	9.66	6294.0	6583.6
06-Oct-16 18:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 18:00:00	24	79	37		568	43	68	1.180	166	9.68	6295.7	6585.6
06-Oct-16 18:15:00	24	80	37		572	43	72	1.195	179	9.69	6297.3	6587.6
06-Oct-16 18:30:00	24	78	36		571	43	73	1.150	212	9.70	6299.0	6589.5
06-Oct-16 18:45:00	24	80	36		547	43	70	1.203	154	9.72	6300.5	6591.5
06-Oct-16 19:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 19:00:00	Electrical Conductivity=50.87mS, Water Density=1012 kg/m3 @32.8 degC, Dissolved Oxygen=2.4%S, Oxidation Reduction Potential=-220.9 mV2. Salinity=49000 ppm.											
06-Oct-16 19:00:00	24	89	35		755	46	86	1.259	318	9.72	6303.3	6593.4
06-Oct-16 19:15:00	24	97	36		623	44	80	1.599	111	9.74	6305.0	6595.3
06-Oct-16 19:30:00	24	78	34		511	43	65	1.167	143	9.76	6305.8	6597.2
06-Oct-16 19:45:00	24	82	35		591	42	68	1.352	99	9.77	6307.0	6599.1
06-Oct-16 20:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
06-Oct-16 20:00:00	24	79	35		553	41	72	1.226	162	9.78	6308.2	6601.1
06-Oct-16 20:15:00	24	80	35		557	41	72	1.260	153	9.80	6309.8	6602.9
06-Oct-16 20:30:00	24	80	35		561	40	73	1.205	193	9.81	6311.2	6604.8
06-Oct-16 20:45:00	24	81	34		551	40	72	1.234	155	9.82	6312.7	6606.6
06-Oct-16 21:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.646. Water Density=1016.4 kg/m3 @23.3 degC											
06-Oct-16 21:00:00	24	79	34		557	40	70	1.200	170	9.84	6314.3	6608.5
06-Oct-16 21:04:00	MP on 24/64" Fixed Choke.											
06-Oct-16 21:04:00	Lowered 1.75" orifice plate.											
06-Oct-16 21:15:00	24	78	34	1.089	557	40	68	1.297	112	9.85	6315.9	6610.4
06-Oct-16 21:30:00	24	78	34	1.093	559	40	67	1.239	141	9.86	6317.5	6612.4
06-Oct-16 21:45:00	24	80	34	1.088	556	41	69	1.247	136	9.87	6319.0	6614.3
06-Oct-16 22:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.646.											
06-Oct-16 22:00:00	24	78	34	1.093	554	41	67	1.164	157	9.89	6320.6	6616.3
06-Oct-16 22:15:00	24	81	34	1.087	550	41	69	1.262	131	9.90	6322.2	6618.1
06-Oct-16 22:30:00	24	76	34	1.084	558	41	67	1.154	182	9.91	6323.9	6620.0
06-Oct-16 22:45:00	24	78	34	1.085	553	42	66	1.214	149	9.92	6325.5	6621.8
06-Oct-16 23:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.											
06-Oct-16 23:00:00	Electrical Conductivity=43.09mS, Water Density=1015.7 kg/m3 @24.2 degC, Dissolved Oxygen=2.3%S, Oxidation Reduction Potential=-124.5 mV2. Salinity=49000 ppm.											
06-Oct-16 23:00:00	24	79	34	1.075	556	42	69	1.162	174	9.94	6327.1	6623.7
06-Oct-16 23:15:00	24	79	34	1.084	548	42	70	1.239	145	9.95	6328.8	6625.6
06-Oct-16 23:30:00	24	76	34	1.075	555	42	68	1.159	165	9.96	6330.3	6627.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
06-Oct-16 23:45:00	24	76	34	1.081	552	42	65	1.178	142	9.97	6331.9	6629.5
07-Oct-16 00:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.											
07-Oct-16 00:00:00	24	80	34	1.075								6631.5
07-Oct-16 00:15:00	24	78	34	1.066	551	42	66	1.223	135	10.00	6334.7	6633.4
07-Oct-16 00:30:00	24	79	34	1.078	545	42	66	1.176	152	10.01	6336.3	6635.4
07-Oct-16 00:45:00	24	78	34	1.072	547	42	68	1.166	168	10.02	6337.9	6637.3
07-Oct-16 01:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.											
07-Oct-16 01:00:00	Electrical Conductivity=42.54mS, Water Density=1015.7 kg/m3 @23.7 degC, Dissolved Oxygen=1.9%S, Oxidation Reduction Potential=-145.7 mV2. Salinity=41000 ppm.											
07-Oct-16 01:00:00	24	78	33	1.072	539	42	64	1.158	145	10.03	6339.5	6639.3
07-Oct-16 01:15:00	24	77	33	1.062	550	42	68	1.157	163	10.05	6341.0	6641.1
07-Oct-16 01:30:00	24	79	33	1.072	541	42	63	1.104	181	10.06	6342.5	6643.0
07-Oct-16 01:45:00	24	79	33	1.069	543	42	67	1.268	111	10.07	6344.2	6644.8
07-Oct-16 02:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.645.											
07-Oct-16 02:00:00	24	78	33	1.063	539	42	65	1.113	151	10.08	6345.7	6646.7
07-Oct-16 02:15:00	24	78	33	1.063	546	42	64	1.226	126	10.10	6347.4	6648.6
07-Oct-16 02:30:00	24	78	33	1.068	543	42	62	1.101	150	10.11	6348.8	6650.6
07-Oct-16 02:45:00	24	78	33	1.064	546	42	63	1.152	139	10.12	6350.5	6652.5
07-Oct-16 03:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 03:00:00	Electrical Conductivity=42.34mS, Water Density=1015.7 kg/m3 @22.8 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-173.6 mV2. Salinity=49000 ppm.											
07-Oct-16 03:00:00	24	77	33	1.064	545	42	67	1.145	147	10.13	6351.9	6654.5
07-Oct-16 03:15:00	24	76	33	1.067	542	42	65	1.122	158	10.14	6353.5	6656.4
07-Oct-16 03:30:00	24	79	33	1.060	538	42	63	1.251	117	10.16	6355.1	6658.4
07-Oct-16 03:45:00	24	78	33	1.063	537	42	66	1.176	142	10.17	6356.8	6660.3
07-Oct-16 04:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 04:00:00	24	79	33	1.065	534	42	63	1.159	144	10.18	6358.3	6662.3
07-Oct-16 04:15:00	24	78	33	1.057	541	42	69	1.160	150	10.19	6359.9	6664.4
07-Oct-16 04:30:00	24	76	33	1.063	547	42	67	1.199	127	10.20	6361.3	6666.6
07-Oct-16 04:36:00	Lifted up orifice plate.											
07-Oct-16 04:36:00	End of MP											
07-Oct-16 04:37:00	Switched flow to 24/64" adjustable choke.											
07-Oct-16 04:38:00	Increased adjustable choke to 26/64".											
07-Oct-16 04:45:00	26	91	33		404	42	118	1.396	169	10.22	6363.3	6668.7
07-Oct-16 05:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 05:00:00	Electrical Conductivity=49.76mS, Water Density=1012.1 kg/m3 @31.6 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-218.1 mV2. Salinity=49000 ppm.											
07-Oct-16 05:00:00	26	92	35		432	43	122	1.357	220	10.23	6366.0	6670.9
07-Oct-16 05:15:00	26	92	35		423	43	114	1.371	178	10.25	6368.3	6672.9
07-Oct-16 05:30:00	26	91	35		417	43	114	1.450	149	10.26	6370.4	6675.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
07-Oct-16 05:45:00	26	91	35		419	43	119	1.373	201	10.27	6372.4	6677.0
07-Oct-16 06:00:00	BSW=100%, pH=7, CO2=4%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 06:00:00	26	91	35		417	43	118	1.385	168	10.29	6374.5	6679.1
07-Oct-16 06:15:00	26	91	35		412	43	116	1.331	187	10.30	6376.6	6681.4
07-Oct-16 06:30:00	26	89	35		411	43	117	1.401	150	10.32	6378.5	6683.7
07-Oct-16 06:45:00	26	91	35		405	43	114	1.373	185	10.33	6380.4	6686.1
07-Oct-16 07:00:00	26	88	36		408	44	118	1.289	243	10.34	6382.5	6688.4
07-Oct-16 07:15:00	26	91	36		397	44	111	1.267	186	10.36	6384.5	6690.6
07-Oct-16 07:30:00	26	89	37		395	44	114	1.290	180	10.37	6386.5	6692.7
07-Oct-16 07:45:00	26	90	37		396	45	111	1.250	190	10.38	6388.5	6694.8
07-Oct-16 08:00:00	26	89	37		407	45	125	1.323	216	10.40	6390.4	6697.0
07-Oct-16 08:05:00	Increased adjustable choke to 28/64"											
07-Oct-16 08:15:00	28	89	38		304	45	192	1.320	291	10.41	6392.5	6699.5
07-Oct-16 08:20:00	BSW=100% (Trace Solids), Gas SG=0.644, Water Density=1012.6 kg/m3 @ 29.5 degC.											
07-Oct-16 08:30:00	28	95	39		316	46	173	1.304	265	10.43	6394.9	6702.1
07-Oct-16 08:45:00	28	95	39		315	46	177	1.292	299	10.44	6397.6	6704.6
07-Oct-16 09:00:00	28	96	39		310	46	175	1.420	214	10.45	6400.1	6707.1
07-Oct-16 09:14:00	Switched flow to 28/64" fixed choke.											
07-Oct-16 09:15:00	28	82	40		339	46	95	1.152	150	10.47	6402.4	6708.6
07-Oct-16 09:30:00	BSW=100% (Trace Solids), pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 09:30:00	28	92	39		430	46	100	1.342	129	10.48	6403.9	6710.0
07-Oct-16 09:45:00	28	84	39		418	46	98	1.137	210	10.50	6405.4	6711.5
07-Oct-16 10:00:00	BSW=100% (Trace Solids), pH=7, CO2=3.5%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 10:00:00	28	83	39		412	46	98	1.154	184	10.51	6407.2	6712.9
07-Oct-16 10:15:00	28	86	39		408	46	95	1.248	143	10.52	6408.9	6714.9
07-Oct-16 10:30:00	28	84	39		410	46	103	1.238	177	10.53	6410.7	6716.8
07-Oct-16 10:45:00	28	84	39		416	46	98	1.194	181	10.55	6412.4	6718.8
07-Oct-16 11:00:00	Electrical Conductivity=53.2mS, Water Density=1014.9 kg/m3 @27.3 degC, Dissolved Oxygen=0.3%S, Oxidation Reduction Potential=-266.7 mV2. Salinity=32000 ppm.											
07-Oct-16 11:00:00	28	85	40		411	46	97	1.233	155	10.56	6414.2	6720.7
07-Oct-16 11:15:00	28	82	40		425	47	100	1.141	227	10.57	6416.1	6722.9
07-Oct-16 11:30:00	28	84	40		415	47	104	1.297	144	10.58	6417.8	6725.0
07-Oct-16 11:45:00	28	85	40		409	47	93	1.209	159	10.60	6419.8	6727.2
07-Oct-16 12:00:00	28	85	40		417	47	94	1.194	170	10.61	6421.7	6729.3
07-Oct-16 12:15:00	28	86	40		413	47	97	1.180	172	10.62	6423.5	6731.4
07-Oct-16 12:30:00	28	84	41		411	47	94	1.175	165	10.63	6425.2	6733.4
07-Oct-16 12:45:00	28	82	41		411	47	94	1.142	214	10.65	6427.1	6735.5
07-Oct-16 13:00:00	28	83	41		411	47	97	1.148	196	10.66	6428.8	6737.5
07-Oct-16 13:15:00	28	84	41		417	47	102	1.174	224	10.67	6430.9	6739.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
07-Oct-16 13:30:00	28	83	41		414	47	99	1.339	126	10.68	6432.8	6741.6
07-Oct-16 13:45:00	28	84	41		407	47	98	1.211	165	10.70	6434.6	6743.7
07-Oct-16 13:55:00	Set Separator porportional band to 25% to help stablize Separator during slugs pressure dropped moved porportional band back to 20%.											
07-Oct-16 14:00:00	BSW=100% (0.01% Solids), pH=7, CO2=3%, H2S=3ppm, Gas SG=0.644.											
07-Oct-16 14:00:00	Electrical Conductivity=54.6mS, Water Density=1014.5 kg/m3 @33.35 degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-267.4 mV2. Salinity=31000 ppm.											
07-Oct-16 14:00:00	28	78	41		404	47	95	1.194	163	10.71	6436.5	6745.7
07-Oct-16 14:15:00	28	78	41		411	47	102	1.212	166	10.72	6438.3	6747.7
07-Oct-16 14:30:00	28	79	41		411	47	100	1.275	149	10.73	6440.2	6749.8
07-Oct-16 14:45:00	28	81	41		403	47	94	1.246	150	10.75	6442.0	6751.8
07-Oct-16 15:00:00	BSW=100% (Trace Solids); Gas SG 0.642, CO2 2.8%, H2S 3ppm.											
07-Oct-16 15:00:00	Electrical Conductivity=51.78mS, Water Density=1012.6kg/m3 @33.7 degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-248mV2. Salinity=30000 ppm.											
07-Oct-16 15:00:00	28	76	41		416	47	96	1.110	215	10.76	6443.9	6753.9
07-Oct-16 15:15:00	28	80	41		406	47	95	1.263	135	10.77	6445.6	6756.1
07-Oct-16 15:30:00	28	79	41		414	47	93	1.197	171	10.78	6447.5	6758.3
07-Oct-16 15:45:00	28	80	41		407	47	97	1.279	141	10.80	6449.3	6760.6
07-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.											
07-Oct-16 16:00:00	Electrical Conductivity=51.8mS, Water Density=1012.1 kg/m3 @34.2 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-238mV2. Salinity=30000 ppm.											
07-Oct-16 16:00:00	Took Isotube gas sample #19 @ 60 psi, 43 degC.											
07-Oct-16 16:00:00	28	78	41		414	47	98	1.145	207	10.81	6451.1	6762.8
07-Oct-16 16:15:00	28	78	41		410	47	96	1.219	169	10.82	6453.0	6764.8
07-Oct-16 16:30:00	28	79	41		403	46	98	1.177	169	10.83	6455.0	6766.7
07-Oct-16 16:45:00	28	78	41		409	46	101	1.196	187	10.85	6457.0	6768.7
07-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.											
07-Oct-16 17:00:00	Electrical Conductivity=51.8mS, Water Density=1012.1 kg/m3 @34.2 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-238mV2. Salinity=30000 ppm.											
07-Oct-16 17:00:00	28	78	40		409	46	100	1.249	162	10.86	6458.9	6770.6
07-Oct-16 17:15:00	28	79	40		399	45	96	1.158	186	10.87	6460.9	6772.7
07-Oct-16 17:30:00	28	77	40		410	45	99	1.099	223	10.88	6462.8	6774.7
07-Oct-16 17:45:00	28	78	39		407	45	97	1.190	174	10.90	6464.7	6776.8
07-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.640, CO2=2.25%, H2S=3ppm.											
07-Oct-16 18:00:00	28	78	39		411	44	92	1.172	181	10.91	6466.5	6778.8
07-Oct-16 18:15:00	28	76	39		413	44	99	1.234	181	10.92	6468.3	6781.2
07-Oct-16 18:20:00	Took ALS water samples set #3 at Separator. Electrical Conductivity=53.76mS, Water Density=1011.1 kg/m3 @35.3 degC.											
07-Oct-16 18:30:00	28	76	38		412	44	99	1.098	253	10.93	6470.2	6783.7
07-Oct-16 18:45:00	28	81	38		376	44	84	0.871	254	10.94	6472.4	6786.1
07-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2.5%, H2S=3ppm.											
07-Oct-16 19:00:00	Electrical Conductivity=49.67mS, Water Density=1011.2 kg/m3 @35.1 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-208.5mV2. Salinity=30000 ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
07-Oct-16 19:00:00	28	103	39		515	46	123	1.634	179	10.96	6475.2	6788.6
07-Oct-16 19:15:00	28	70	37		370	44	89	1.181	121	10.97	6476.2	6790.3
07-Oct-16 19:30:00	28	78	37		428	44	97	1.303	142	10.98	6477.8	6792.1
07-Oct-16 19:45:00	28	75	37		403	42	97	1.164	205	11.00	6479.5	6793.8
07-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2.5%, H2S=3ppm.											
07-Oct-16 20:00:00	28	81	37		404	42	96	1.315	132	11.01	6481.2	6795.6
07-Oct-16 20:15:00	28	81	37		397	41	97	1.179	175	11.02	6482.9	6797.5
07-Oct-16 20:30:00	28	81	36		411	41	99	1.188	191	11.03	6484.9	6799.5
07-Oct-16 20:45:00	28	80	36		401	41	96	1.194	158	11.05	6486.6	6801.4
07-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
07-Oct-16 21:00:00	Electrical Conductivity=46.56mS, Water Density=1013.9 kg/m3 @28 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-196.2mV2. Salinity=41000 ppm.											
07-Oct-16 21:00:00	28	80	36		406	41	95	1.225	165	11.06	6488.4	6803.4
07-Oct-16 21:15:00	28	82	36		405	41	94	1.161	183	11.07	6490.1	6805.4
07-Oct-16 21:30:00	28	82	36		408	42	89	1.215	150	11.09	6491.8	6807.5
07-Oct-16 21:45:00	28	82	36		400	42	98	1.111	239	11.10	6493.7	6809.5
07-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
07-Oct-16 22:00:00	28	82	35		399	42	98	1.262	153	11.11	6495.6	6811.6
07-Oct-16 22:15:00	28	81	35		398	42	98	1.291	134	11.12	6497.3	6814.2
07-Oct-16 22:30:00	28	79	35		410	43	93	1.203	150	11.13	6499.1	6816.9
07-Oct-16 22:45:00	28	73	35		338	43	77	1.080	103	11.15	6500.8	6819.6
07-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
07-Oct-16 23:00:00	Electrical Conductivity=52.55mS, Water Density=1011.2 kg/m3 @34.2 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-175.8mV2. Salinity=42000 ppm.											
07-Oct-16 23:00:00	28	107	37		542	46	125	1.678	181	11.16	6504.3	6822.3
07-Oct-16 23:15:00	28	80	35		366	43	97	1.260	101	11.17	6505.4	6824.1
07-Oct-16 23:30:00	28	90	36		404	43	97	1.373	111	11.19	6507.1	6826.0
07-Oct-16 23:45:00	28	83	35		400	43	92	1.363	89	11.20	6508.6	6827.8
08-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
08-Oct-16 00:00:00	28	81	35									6829.7
08-Oct-16 00:15:00	28	83	35		396	43	92	1.244	139	11.22	6511.6	6831.7
08-Oct-16 00:30:00	28	83	35		402	43	92	1.122	197	11.23	6513.3	6833.8
08-Oct-16 00:45:00	28	80	35		399	43	93	1.098	217	11.25	6515.1	6835.8
08-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
08-Oct-16 01:00:00	Electrical Conductivity=45.85mS, Water Density=1013.6 kg/m3 @27.7 degC, Dissolved Oxygen=0.8%S, Oxidation Reduction Potential=-246.1mV2. Salinity=41000 ppm.											
08-Oct-16 01:00:00	28	83	35		397	43	92	1.155	168	11.26	6516.9	6837.9
08-Oct-16 01:15:00	28	82	35		398	43	94	1.096	216	11.27	6518.6	6839.8
08-Oct-16 01:30:00	28	83	35		401	42	92	1.069	231	11.28	6520.4	6841.8
08-Oct-16 01:45:00	28	84	34		389	42	89	1.202	140	11.29	6522.2	6843.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
08-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=2%, H2S=3ppm.											
08-Oct-16 02:00:00	28	81	34		400	42	92	1.189	169	11.31	6524.0	6845.7
08-Oct-16 02:15:00	28	79	34		403	42	88	1.030	233	11.32	6525.8	6847.5
08-Oct-16 02:30:00	28	83	34		399	42	95	1.275	130	11.33	6527.5	6849.4
08-Oct-16 02:45:00	28	83	34		395	42	90	1.161	147	11.34	6529.3	6851.2
08-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 03:00:00	Electrical Conductivity=44.22mS, Water Density=1014.9 kg/m3 @25.1 degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-250.6mV2. Salinity=41000 ppm.											
08-Oct-16 03:00:00	28	82	34		396	42	92	1.235	118	11.35	6531.0	6853.1
08-Oct-16 03:15:00	28	82	34		407	42	92	1.264	123	11.37	6532.5	6855.2
08-Oct-16 03:30:00	28	79	34		403	42	88	1.119	171	11.38	6534.3	6857.4
08-Oct-16 03:45:00	28	80	34		398	42	91	1.124	149	11.39	6535.8	6859.5
08-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 04:00:00	28	80	34		395	42	86	1.199	140	11.40	6537.6	6861.6
08-Oct-16 04:15:00	28	82	34		398	42	96	1.280	126	11.41	6539.2	6863.7
08-Oct-16 04:30:00	28	83	34		391	42	89	1.358	67	11.43	6540.7	6865.7
08-Oct-16 04:45:00	28	83	34		386	42	89	1.221	120	11.44	6542.3	6867.8
08-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 05:00:00	Electrical Conductivity=42.96mS, Water Density=1015 kg/m3 @23.9 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-226.9mV2. Salinity=40000 ppm.											
08-Oct-16 05:00:00	28	82	34		388	42	88	1.243	118	11.45	6544.0	6869.8
08-Oct-16 05:01:00	Switched flow to 28/64" adjustable choke.											
08-Oct-16 05:02:00	Increased adjustable choke to 29/64".											
08-Oct-16 05:15:00	29	86	34		275	43	181	1.188	271	11.46	6546.5	6872.6
08-Oct-16 05:30:00	29	92	35		275	43	178	1.255	259	11.48	6549.1	6875.3
08-Oct-16 05:45:00	29	94	36		281	43	171	1.493	149	11.49	6551.4	6878.0
08-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 06:00:00	29	93	36		270	43	169	1.248	232	11.51	6553.7	6880.8
08-Oct-16 06:15:00	29	91	36		280	43	172	1.222	288	11.52	6555.7	6883.5
08-Oct-16 06:30:00	Bled off casing pressure to 0 psi.											
08-Oct-16 06:30:00	29	93	36		272	43	155	1.315	162	11.53	6557.8	6886.3
08-Oct-16 06:45:00	29	94	36		274	44	159	1.483	106	11.55	6559.8	6889.1
08-Oct-16 07:00:00	29	91	36		272	44	165	1.279	214	11.56	6561.8	6891.9
08-Oct-16 07:15:00	29	92	37		270	45	170	1.207	244	11.57	6564.0	6893.4
08-Oct-16 07:30:00	29	92	38		269	45	169	1.185	271	11.59	6566.2	6894.8
08-Oct-16 07:45:00	29	93	38		275	45	173	1.222	281	11.60	6568.4	6896.3
08-Oct-16 08:00:00	Electrical Conductivity=53.35mS, Water Density=1013.5 kg/m3 @30.7 degC, Dissolved Oxygen=0.2%S, Oxidation Reduction Potential=-254.0mV2. Salinity=33000 ppm.											
08-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 08:00:00	29	92	39		262	46	160	1.278	196	11.61	6570.7	6897.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
08-Oct-16 08:15:00	29	92	39		265	46	165	1.165	260	11.62	6572.8	6899.9
08-Oct-16 08:30:00	29	92	39		260	46	168	1.183	261	11.64	6575.1	6902.1
08-Oct-16 08:45:00	29	93	40		259	46	161	1.263	147	11.65	6577.2	6904.3
08-Oct-16 09:00:00	29	92	40		260	46	160	1.243	199	11.66	6579.5	6906.4
08-Oct-16 09:15:00	29	92	40		257	46	164	1.280	188	11.68	6581.7	6908.4
08-Oct-16 09:30:00	29	90	40		259	46	168	1.204	241	11.69	6584.2	6910.3
08-Oct-16 09:45:00	29	91	41		263	47	169	1.197	243	11.70	6586.4	6912.3
08-Oct-16 10:00:00	Electrical Conductivity=52.49mS, Water Density=1012.2kg/m3 @33.2 degC, Dissolved Oxygen=0.1%S, Oxidation Reduction Potential=-266mV2. Salinity=30000 ppm.											
08-Oct-16 10:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2%, H2S=3ppm.											
08-Oct-16 10:00:00	29	93	41		256	47	164	1.272	186	11.71	6588.8	6914.2
08-Oct-16 10:15:00	29	91	41		261	47	171	1.241	240	11.73	6591.2	6916.3
08-Oct-16 10:30:00	29	90	41		250	47	166	1.284	187	11.74	6593.4	6918.4
08-Oct-16 10:45:00	29	92	41		256	47	165	1.178	242	11.75	6595.8	6920.4
08-Oct-16 11:00:00	29	88	42		254	47	169	1.303	171	11.76	6598.1	6922.5
08-Oct-16 11:15:00	29	90	42		254	47	167	1.320	160	11.78	6600.5	6924.8
08-Oct-16 11:30:00	29	92	42		257	48	170	1.229	211	11.79	6602.8	6927.1
08-Oct-16 11:45:00	29	93	42		249	48	159	1.255	180	11.80	6605.2	6929.4
08-Oct-16 12:00:00	29	90	42		253	48	164	1.163	239	11.81	6607.8	6931.7
08-Oct-16 12:15:00	29	91	42		250	48	163	1.117	260	11.83	6610.3	6934.1
08-Oct-16 12:30:00	29	89	42		254	48	172	1.143	267	11.84	6612.5	6936.6
08-Oct-16 12:45:00	29	91	42		253	48	160	1.214	205	11.85	6614.7	6939.0
08-Oct-16 13:00:00	29	93	43		253	48	160	1.205	214	11.86	6617.0	6941.4
08-Oct-16 13:15:00	29	90	43		253	48	161	1.205	228	11.88	6618.8	6943.8
08-Oct-16 13:30:00	29	90	43		263	48	178	1.260	238	11.89	6621.1	6946.2
08-Oct-16 13:45:00	29	91	43		252	48	164	1.173	228	11.90	6623.3	6948.7
08-Oct-16 14:00:00	29	92	43		243	48	152	1.184	166	11.91	6625.7	6951.1
08-Oct-16 14:04:00	Switched flow to 28/64" fixed choke.											
08-Oct-16 14:05:00	BSW=100% (0.05% solids), pH=7, Gas SG=0.644, CO2=2.5 %, H2S=3ppm.											
08-Oct-16 14:15:00	28	83	42		376	48	89	1.078	173	11.92	6627.4	6952.9
08-Oct-16 14:30:00	28	91	43		456	48	105	1.225	230	11.93	6629.5	6954.8
08-Oct-16 14:45:00	28	83	41		334	48	78	1.109	92	11.95	6630.8	6956.6
08-Oct-16 14:48:00	Switched flow to 29/64" adjustable choke.											
08-Oct-16 15:00:00	Electrical Conductivity=51.0mS, Water Density=1013.5kg/m3 @32.7 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-278mV2. Salinity=30000 ppm.											
08-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 15:00:00	28	81	42		248	47	177	1.104	278	11.96	6633.0	6958.4
08-Oct-16 15:15:00	28	85	43		248	47	162	1.314	157	11.97	6635.4	6960.9
08-Oct-16 15:30:00	28	86	43		252	47	165	1.117	277	11.99	6637.9	6963.3
08-Oct-16 15:45:00	28	86	43		245	47	170	1.211	220	12.00	6640.6	6965.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
08-Oct-16 16:00:00	Electrical Conductivity=56.42mS, Water Density=1013.1kg/m3 @32.6 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-259mV2. Salinity=30000 ppm.											
08-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 16:00:00	Took Isotube gas sample #20 @ 75 psi, 45 degC.											
08-Oct-16 16:00:00	28	88	43		254	47	160	1.156	229	12.01	6642.8	6968.1
08-Oct-16 16:15:00	28	85	42		244	47	155	1.172	195	12.02	6644.9	6970.3
08-Oct-16 16:30:00	28	87	42		246	47	161	1.163	210	12.04	6647.2	6972.5
08-Oct-16 16:45:00	28	85	42		245	47	167	1.148	243	12.05	6649.4	6974.7
08-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 17:00:00	Electrical Conductivity=56.00mS, Water Density=1012.7kg/m3 @33.5 degC, Dissolved Oxygen=0.4%S, Oxidation Reduction Potential=-282mV2. Salinity=30000 ppm.											
08-Oct-16 17:00:00	28	85	42		250	46	166	1.026	333	12.06	6652.1	6976.8
08-Oct-16 17:15:00	28	86	42		256	46	170	1.194	270	12.07	6654.5	6979.4
08-Oct-16 17:30:00	28	86	42		242	45	160	1.213	180	12.08	6656.7	6982.0
08-Oct-16 17:45:00	28	86	41		245	45	170	1.213	213	12.10	6659.0	6984.5
08-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 18:00:00	28	86	41		249	45	159	1.275	168	12.11	6661.1	6987.1
08-Oct-16 18:15:00	28	86	40		246	45	158	1.129	232	12.12	6663.2	6989.4
08-Oct-16 18:30:00	28	86	40		245	45	162	1.164	229	12.14	6665.4	6991.8
08-Oct-16 18:45:00	28	85	40		250	45	161	1.151	245	12.15	6667.9	6994.1
08-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 19:00:00	Electrical Conductivity=54.96mS, Water Density=1011.2kg/m3 @35 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-274.9mV2. Salinity=33000 ppm.											
08-Oct-16 19:00:00	28	84	40		250	45	161	1.160	230	12.16	6670.0	6996.5
08-Oct-16 19:15:00	28	86	40		248	45	159	1.111	245	12.17	6672.2	6998.3
08-Oct-16 19:30:00	28	85	39		242	45	155	1.154	209	12.19	6674.1	7000.2
08-Oct-16 19:45:00	28	85	39		242	44	169	1.220	207	12.20	6676.2	7002.0
08-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 20:00:00	28	84	39		246	44	171	1.220	202	12.21	6678.3	7003.9
08-Oct-16 20:15:00	28	100	39		317	46	230	1.429	323	12.22	6680.9	7006.1
08-Oct-16 20:30:00	28	77	39		251	45	170	1.240	201	12.24	6682.8	7008.4
08-Oct-16 20:45:00	28	80	39		251	44	163	1.315	155	12.25	6684.6	7010.6
08-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 21:00:00	Electrical Conductivity=54.55mS, Water Density=1010.6kg/m3 @34.7 degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-291.8mV2. Salinity=33000 ppm.											
08-Oct-16 21:00:00	28	81	39		249	44	162	1.220	206	12.26	6686.8	7012.8
08-Oct-16 21:15:00	28	81	38		246	44	156	1.298	143	12.27	6688.9	7015.0
08-Oct-16 21:30:00	28	79	38		241	44	160	1.197	223	12.29	6691.0	7017.1
08-Oct-16 21:45:00	28	80	38		249	44	158	1.180	201	12.30	6693.2	7019.3
08-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 22:00:00	28	79	38		247	44	158	1.246	179	12.31	6695.2	7021.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
08-Oct-16 22:15:00	28	80	38		245	44	156	1.207	190	12.32	6697.2	7023.4
08-Oct-16 22:30:00	28	80	38		246	44	165	1.309	156	12.34	6699.3	7025.3
08-Oct-16 22:45:00	28	80	38		240	44	164	1.303	151	12.35	6701.2	7027.3
08-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=3ppm.											
08-Oct-16 23:00:00	Electrical Conductivity=51.62mS, Water Density=1012.1kg/m3 @31.6 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-245.5mV2. Salinity=33000 ppm.											
08-Oct-16 23:00:00	28	82	37		247	44	159	1.322	141	12.36	6703.3	7029.2
08-Oct-16 23:15:00	28	80	37		250	44	165	1.081	279	12.38	6705.2	7031.6
08-Oct-16 23:30:00	28	80	37		244	44	155	1.222	177	12.39	6707.3	7033.9
08-Oct-16 23:45:00	28	79	37		249	43	165	1.235	211	12.40	6709.4	7036.2
09-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 00:00:00	28	79	37									7038.5
09-Oct-16 00:15:00	28	80	37		245	44	162	1.232	195	12.42	6713.1	7040.8
09-Oct-16 00:30:00	28	81	37		245	44	154	1.183	210	12.44	6715.2	7043.1
09-Oct-16 00:45:00	28	81	37		243	43	162	1.053	285	12.45	6717.5	7045.4
09-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 01:00:00	Electrical Conductivity=51.96mS, Water Density=1011.2kg/m3 @32.3 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-269.2mV2. Salinity=33000 ppm.											
09-Oct-16 01:00:00	28	80	37		239	43	149	1.144	187	12.46	6719.5	7047.7
09-Oct-16 01:15:00	28	81	37		246	43	152	1.174	189	12.47	6721.6	7049.9
09-Oct-16 01:30:00	28	86	36		241	43	150	1.158	163	12.49	6723.6	7052.1
09-Oct-16 01:45:00	28	87	36		242	43	157	1.235	169	12.50	6725.4	7054.3
09-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 02:00:00	28	88	36		248	43	156	1.217	173	12.51	6727.5	7056.5
09-Oct-16 02:15:00	28	86	36		243	43	157	1.166	203	12.52	6729.5	7058.8
09-Oct-16 02:30:00	28	84	36		245	43	165	1.152	203	12.54	6731.3	7061.1
09-Oct-16 02:45:00	28	86	36		243	43	158	1.111	236	12.55	6733.2	7063.4
09-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3%, H2S=3ppm.											
09-Oct-16 03:00:00	Electrical Conductivity=49.99mS, Water Density=1012.8kg/m3 @30 degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-263.2mV2. Salinity=40000 ppm.											
09-Oct-16 03:00:00	28	87	36		248	43	161	1.031	284	12.56	6735.4	7065.7
09-Oct-16 03:15:00	28	87	36		240	43	147	1.178	167	12.57	6737.1	7067.5
09-Oct-16 03:30:00	28	85	36		239	43	150	1.154	186	12.59	6738.9	7069.4
09-Oct-16 03:45:00	28	89	36		247	43	155	1.238	184	12.60	6741.1	7071.2
09-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3%, H2S=3ppm.											
09-Oct-16 04:00:00	28	84	36		228	43	142	1.279	88	12.61	6743.0	7073.0
09-Oct-16 04:15:00	28	95	36		238	43	144	1.300	96	12.62	6745.2	7075.6
09-Oct-16 04:30:00	28	90	36		248	43	158	1.259	157	12.64	6747.2	7078.1
09-Oct-16 04:45:00	28	91	36		247	42	158	1.208	208	12.65	6749.3	7080.6
09-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
09-Oct-16 05:00:00	Electrical Conductivity=50.17mS, Water Density=1012.6kg/m3 @30.2 degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-260.2mV2. Salinity=33000 ppm.											
09-Oct-16 05:00:00	28	90	35		242	42	153	1.111	215	12.66	6751.2	7083.2
09-Oct-16 05:15:00	28	90	35		235	42	152	1.205	167	12.67	6753.2	7085.0
09-Oct-16 05:30:00	28	92	35		240	42	149	1.177	207	12.68	6755.1	7086.8
09-Oct-16 05:45:00	28	90	35		239	42	158	1.170	186	12.70	6757.2	7088.7
09-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 06:00:00	28	90	35		241	43	150	1.101	231	12.71	6759.2	7090.5
09-Oct-16 06:15:00	28	92	36		238	43	145	1.328	58	12.72	6761.2	7092.7
09-Oct-16 06:30:00	28	91	36		246	43	158	1.422	89	12.73	6762.9	7094.9
09-Oct-16 06:45:00	28	91	36		239	43	158	1.089	232	12.75	6765.0	7097.1
09-Oct-16 07:00:00	Electrical Conductivity=50.77mS, Water Density=1012.8kg/m3 @30.6 degC, Dissolved Oxygen=1.1%S, Oxidation Reduction Potential=-263.2mV2. Salinity=30000 ppm.											
09-Oct-16 07:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 07:00:00	28	88	36		243	44	158	1.120	235	12.76	6767.1	7099.3
09-Oct-16 07:01:00	Pumped frac tank to pond.											
09-Oct-16 07:15:00	28	90	37		237	44	153	1.135	201	12.77	6769.3	7101.5
09-Oct-16 07:30:00	28	92	37		235	44	147	1.172	166	12.78	6771.4	7103.7
09-Oct-16 07:45:00	28	91	37		235	44	155	1.297	121	12.79	6773.4	7105.9
09-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 08:00:00	28	92	38		237	44	154	1.178	154	12.81	6775.3	7108.1
09-Oct-16 08:15:00	28	91	38		241	45	160	1.211	198	12.82	6777.4	7110.2
09-Oct-16 08:30:00	28	90	38		242	45	163	1.225	187	12.83	6779.4	7112.2
09-Oct-16 08:45:00	28	92	39		236	45	148	1.173	182	12.84	6781.3	7114.3
09-Oct-16 09:00:00	Electrical Conductivity=51.2mS, Water Density=1012.7kg/m3 @30.8 degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-267mV2. Salinity=30000 ppm											
09-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 09:00:00	28	93	39		238	45	147	1.095	221	12.85	6783.5	7116.3
09-Oct-16 09:15:00	28	93	39		241	46	151	1.147	196	12.87	6785.6	7118.4
09-Oct-16 09:30:00	28	92	40		230	46	143	1.013	253	12.88	6787.7	7120.4
09-Oct-16 09:45:00	28	90	40		235	46	154	1.204	162	12.89	6789.9	7122.5
09-Oct-16 10:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=3ppm.											
09-Oct-16 10:00:00	28	90	40		231	46	151	1.224	148	12.90	6792.1	7124.5
09-Oct-16 10:15:00	28	91	40		230	46	154	1.113	206	12.91	6794.2	7126.5
09-Oct-16 10:30:00	28	93	41		236	46	151	1.273	126	12.93	6796.1	7128.4
09-Oct-16 10:45:00	28	91	41		231	47	155	1.292	122	12.94	6798.4	7130.4
09-Oct-16 11:00:00	Electrical Conductivity=48.9mS, Water Density=1012.6kg/m3 @32.7 degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-256mV2. Salinity=30000 ppm											
09-Oct-16 11:00:00	BSW=100%, pH=7, Gas SG=0.642, CO2=3%, H2S=3ppm.											
09-Oct-16 11:00:00	28	92	41		235	47	151	1.071	239	12.95	6800.5	7132.3
09-Oct-16 11:15:00	28	92	42		231	47	156	1.077	249	12.96	6802.6	7134.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
09-Oct-16 11:30:00	28	92	42		232	47	156	1.161	148	12.97	6804.7	7136.2
09-Oct-16 11:45:00	28	90	42		233	47	162	1.190	186	12.98	6806.9	7138.2
09-Oct-16 12:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=4.5ppm.											
09-Oct-16 12:00:00	28	93	42		233	47	156	1.148	189	13.00	6809.0	7140.1
09-Oct-16 12:15:00	28	93	43		238	48	152	1.111	210	13.01	6811.2	7142.1
09-Oct-16 12:30:00	28	92	43		232	48	158	1.151	203	13.02	6813.2	7144.0
09-Oct-16 12:45:00	28	91	43		238	48	169	1.113	257	13.03	6815.1	7146.0
09-Oct-16 13:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.											
09-Oct-16 13:00:00	28	92	43		233	48	149	1.190	152	13.04	6817.2	7147.9
09-Oct-16 13:15:00	28	94	43		237	48	150	1.222	155	13.05	6819.5	7149.9
09-Oct-16 13:30:00	28	93	44		234	48	149	1.073	221	13.07	6821.7	7151.9
09-Oct-16 13:45:00	28	89	44		245	48	167	1.018	318	13.08	6823.9	7153.9
09-Oct-16 14:00:00	Electrical Conductivity=55.8mS, Water Density=1012.7kg/m3 @33.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-268mV2. Salinity=30000 ppm											
09-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.											
09-Oct-16 14:00:00	28	91	43		237	48	158	1.204	166	13.09	6826.0	7155.9
09-Oct-16 14:15:00	28	93	43		238	48	155	1.023	267	13.10	6828.3	7157.8
09-Oct-16 14:30:00	28	92	43		230	48	145	1.046	193	13.11	6830.3	7159.7
09-Oct-16 14:45:00	28	91	43		238	48	163	1.155	208	13.12	6832.6	7161.6
09-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=5ppm.											
09-Oct-16 15:00:00	28	92	44		233	48	156	1.097	226	13.14	6834.8	7163.5
09-Oct-16 15:15:00	28	90	43		240	47	159	1.067	252	13.15	6836.9	7165.7
09-Oct-16 15:30:00	28	92	43		233	47	153	1.160	172	13.16	6839.0	7167.8
09-Oct-16 15:45:00	28	92	43		239	47	156	1.069	241	13.17	6841.0	7170.0
09-Oct-16 16:00:00	Electrical Conductivity=55.5mS, Water Density=1012.6kg/m3 @33.8degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-280mV2. Salinity=30000 ppm											
09-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
09-Oct-16 16:00:00	Took Isotube gas sample #21 @ 75 psi, 46 degC.											
09-Oct-16 16:00:00	28	93	43		237	47	157	1.152	211	13.18	6843.1	7172.2
09-Oct-16 16:15:00	28	91	43		233	47	161	1.060	250	13.20	6845.2	7174.2
09-Oct-16 16:30:00	28	92	43		239	47	152	1.042	234	13.21	6847.4	7176.1
09-Oct-16 16:45:00	28	92	43		239	47	157	1.119	236	13.22	6849.5	7178.1
09-Oct-16 17:00:00	Pumped frac tank to pond.											
09-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
09-Oct-16 17:00:00	28	90	43		238	46	163	1.149	214	13.23	6851.7	7180.0
09-Oct-16 17:15:00	28	92	42		238	46	154	1.089	230	13.24	6854.1	7181.9
09-Oct-16 17:30:00	28	91	42		233	45	155	1.249	151	13.25	6856.2	7183.9
09-Oct-16 17:45:00	28	91	42		235	45	152	1.153	181	13.27	6858.5	7185.8
09-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
09-Oct-16 18:00:00	28	91	42		236	45	152	1.083	215	13.28	6860.7	7187.7
09-Oct-16 18:15:00	28	92	41		244	45	156	1.140	217	13.29	6863.0	7189.5
09-Oct-16 18:30:00	28	92	41		238	45	155	1.078	254	13.30	6865.1	7191.3
09-Oct-16 18:45:00	28	92	40		234	44	153	1.286	121	13.31	6867.2	7193.1
09-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.											
09-Oct-16 19:00:00	Electrical Conductivity=55.08mS, Water Density=1011.8kg/m3 @33.7degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-287.4mV2. Salinity=32000 ppm											
09-Oct-16 19:00:00	28	94	40		239	44	155	1.174	182	13.32	6869.2	7194.9
09-Oct-16 19:15:00	28	91	39		233	44	145	1.099	202	13.34	6871.0	7197.0
09-Oct-16 19:30:00	28	90	39		240	44	161	1.027	293	13.35	6873.2	7199.2
09-Oct-16 19:45:00	28	91	39		240	44	158	1.051	278	13.36	6875.2	7201.3
09-Oct-16 20:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.											
09-Oct-16 20:00:00	28	89	38		229	44	151	1.135	175	13.37	6877.1	7203.5
09-Oct-16 20:15:00	28	91	38		237	44	156	1.080	252	13.38	6879.2	7205.5
09-Oct-16 20:30:00	28	90	38		232	43	147	1.199	156	13.40	6881.2	7207.6
09-Oct-16 20:45:00	28	90	38		242	43	155	1.059	260	13.41	6883.1	7209.6
09-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3.5%, H2S=4ppm.											
09-Oct-16 21:00:00	Electrical Conductivity=52.09mS, Water Density=1012.6kg/m3 @31degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-283.3mV2. Salinity=33000 ppm											
09-Oct-16 21:00:00	28	91	38		238	43	149	1.289	126	13.42	6885.2	7211.6
09-Oct-16 21:15:00	28	92	38		243	43	157	1.053	249	13.43	6887.3	7213.3
09-Oct-16 21:30:00	28	90	37		240	43	156	1.229	160	13.45	6889.3	7215.0
09-Oct-16 21:45:00	28	92	37		236	43	146	1.112	190	13.46	6891.2	7216.6
09-Oct-16 22:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
09-Oct-16 22:00:00	28	91	37		233	43	148	1.116	207	13.47	6893.2	7218.3
09-Oct-16 22:15:00	28	90	37		238	43	154	1.217	157	13.48	6895.0	7220.5
09-Oct-16 22:30:00	28	93	37		240	43	149	1.216	145	13.49	6897.0	7222.8
09-Oct-16 22:45:00	28	89	37		240	43	157	1.153	217	13.51	6898.9	7225.0
09-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
09-Oct-16 23:00:00	Electrical Conductivity=49.31mS, Water Density=1013.5kg/m3 @28.6degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-272.6mV2. Salinity=33000 ppm											
09-Oct-16 23:00:00	28	91	37		239	43	151	1.079	192	13.52	6900.9	7227.3
09-Oct-16 23:15:00	28	91	37		238	43	153	1.189	164	13.53	6902.8	7229.0
09-Oct-16 23:30:00	28	90	37		229	43	146	1.085	185	13.54	6904.8	7230.8
09-Oct-16 23:45:00	28	89	37		238	43	155	1.095	228	13.55	6906.6	7232.6
10-Oct-16 00:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
10-Oct-16 00:00:00	28	90	37									7234.4
10-Oct-16 00:15:00	28	90	36		233	43	146	1.342	115	13.58	6910.1	7235.5
10-Oct-16 00:30:00	28	90	36		234	43	150	1.107	225	13.59	6912.1	7236.6
10-Oct-16 00:45:00	28	93	36		241	43	149	1.284	113	13.60	6914.0	7237.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
10-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
10-Oct-16 01:00:00	Electrical Conductivity=50.97mS, Water Density=1013kg/m3 @29.5degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-289.3mV2. Salinity=33000 ppm											
10-Oct-16 01:00:00	28	91	36		235	43	145	1.072	177	13.61	6915.6	7238.8
10-Oct-16 01:15:00	28	91	36		238	43	150	1.185	145	13.63	6917.5	7239.9
10-Oct-16 01:30:00	28	89	36		237	43	154	1.250	127	13.64	6919.3	7241.0
10-Oct-16 01:45:00	28	92	36		236	43	146	1.143	180	13.65	6921.3	7242.1
10-Oct-16 02:00:00	BSW=100%, pH=7, Gas SG=0.643, CO2=3.5%, H2S=4ppm.											
10-Oct-16 02:00:00	28	93	36		233	43	141	1.154	157	13.66	6923.4	7243.2
10-Oct-16 02:15:00	28	92	36		236	43	146	1.156	169	13.67	6925.3	7245.1
10-Oct-16 02:30:00	28	90	36		243	43	159	1.162	207	13.69	6927.2	7247.1
10-Oct-16 02:45:00	28	90	36		239	43	150	1.121	200	13.70	6929.1	7249.0
10-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.											
10-Oct-16 03:00:00	Electrical Conductivity=50.06mS, Water Density=1013.1kg/m3 @29.2degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-288.4mV2. Salinity=36000 ppm											
10-Oct-16 03:00:00	28	90	36		241	43	149	1.108	209	13.71	6931.0	7251.0
10-Oct-16 03:15:00	28	91	36		232	42	139	1.143	155	13.72	6932.6	7253.1
10-Oct-16 03:30:00	28	90	35		235	42	148	1.132	180	13.73	6934.3	7255.1
10-Oct-16 03:45:00	28	92	36		237	42	152	1.164	168	13.75	6936.3	7257.2
10-Oct-16 04:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.											
10-Oct-16 04:00:00	28	89	35		242	42	156	1.099	238	13.76	6938.1	7259.3
10-Oct-16 04:15:00	28	90	35		248	42	160	1.124	240	13.77	6939.8	7261.3
10-Oct-16 04:30:00	28	88	35		236	42	149	1.205	169	13.78	6941.6	7263.4
10-Oct-16 04:45:00	28	89	35		234	42	146	1.145	177	13.80	6943.4	7265.5
10-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.											
10-Oct-16 05:00:00	Electrical Conductivity=50.55mS, Water Density=1012.8kg/m3 @30degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-307.3mV2. Salinity=33000 ppm											
10-Oct-16 05:00:00	28	90	35		232	42	139	1.148	174	13.81	6945.4	7267.6
10-Oct-16 05:15:00	28	90	36		231	42	145	1.170	168	13.82	6947.2	7269.4
10-Oct-16 05:30:00	28	91	36		236	42	147	1.169	182	13.83	6949.2	7271.2
10-Oct-16 05:45:00	28	91	35		235	42	142	1.020	235	13.84	6951.1	7273.1
10-Oct-16 06:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=4ppm.											
10-Oct-16 06:00:00	28	91	35		233	42	142	1.106	193	13.85	6953.0	7274.9
10-Oct-16 06:15:00	28	91	35		231	43	140	1.081	186	13.87	6955.0	7277.1
10-Oct-16 06:30:00	28	92	36		234	43	143	1.206	143	13.88	6956.7	7279.2
10-Oct-16 06:45:00	28	91	36		230	43	144	1.154	165	13.89	6958.5	7281.4
10-Oct-16 07:00:00	Electrical Conductivity=49.6mS, Water Density=1013.4kg/m3 @29.7degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-293.8mV2. Salinity=32000 ppm											
10-Oct-16 07:00:00	Pumped Frac Tank into Pond											
10-Oct-16 07:00:00	28	90	36		229	43	153	1.117	182	13.90	6960.4	7283.6
10-Oct-16 07:01:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3 %, H2S=4ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
10-Oct-16 07:15:00	28	89	36		235	43	156	1.193	189	13.92	6962.3	7285.7
10-Oct-16 07:30:00	28	91	37		229	43	144	1.264	119	13.93	6964.2	7288.1
10-Oct-16 07:45:00	28	91	37		229	43	142	1.239	112	13.94	6966.1	7290.8
10-Oct-16 08:00:00	BSW=100% (trace solids) , pH=7, Gas SG=0.644, CO2= 3 %, H2S=4ppm.											
10-Oct-16 08:00:00	28	91	37		235	44	145	1.106	194	13.95	6967.7	7293.5
10-Oct-16 08:15:00	28	92	37		233	44	147	1.097	187	13.96	6969.3	7295.7
10-Oct-16 08:30:00	28	92	38		230	44	142	1.049	198	13.97	6971.3	7297.8
10-Oct-16 08:45:00	28	92	38		237	44	151	1.225	151	13.99	6973.3	7300.0
10-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=2.5%, H2S=4ppm.											
10-Oct-16 09:00:00	28	91	38		236	45	149	1.173	144	14.00	6974.9	7302.2
10-Oct-16 09:15:00	28	92	39		228	45	143	1.259	104	14.01	6976.8	7304.3
10-Oct-16 09:30:00	28	92	39		229	45	141	1.050	191	14.02	6978.6	7306.5
10-Oct-16 09:45:00	28	91	40		238	46	152	1.247	137	14.03	6980.4	7308.6
10-Oct-16 10:00:00	Electrical Conductivity=54.6mS, Water Density=1012.8kg/m3 @29.7degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-303.0mV2. Salinity=32000 ppm											
10-Oct-16 10:00:00	28	91	40		232	46	150	1.273	122	14.05	6982.3	7310.8
10-Oct-16 10:01:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3 %, H2S=3ppm.											
10-Oct-16 10:15:00	28	92	40		230	46	152	1.145	198	14.06	6984.3	7312.7
10-Oct-16 10:23:00	WHP started to drop, well slugging											
10-Oct-16 10:27:00	Pressure dropped to168psi, isolated Lo-Pilot to prevent ESD from tripping.											
10-Oct-16 10:30:00	28	69	40		215	46	170	0.931	317	14.07	6986.5	7314.6
10-Oct-16 10:45:00	Rates stabilized, de-isolate lo-pilot, monitored well for further slugging.											
10-Oct-16 10:45:00	28	87	41		224	47	139	1.031	217	14.08	6988.9	7316.5
10-Oct-16 10:46:00	BSW=100% (trace solids) , pH=7, Gas SG=0.644, CO2=2.5%, H2S=4ppm.											
10-Oct-16 11:00:00	28	83	41		226	47	142	1.212	130	14.09	6990.7	7318.4
10-Oct-16 11:15:00	28	81	42		234	47	151	1.153	192	14.10	6992.8	7320.3
10-Oct-16 11:30:00	28	83	42		227	47	145	1.157	135	14.12	6994.4	7322.2
10-Oct-16 11:45:00	28	81	42		226	47	148	1.144	170	14.13	6996.4	7324.1
10-Oct-16 12:00:00	28	82	42		227	47	146	1.033	220	14.14	6998.4	7326.0
10-Oct-16 12:15:00	28	81	42		222	48	142	1.056	175	14.15	7000.2	7327.9
10-Oct-16 12:30:00	28	81	43		221	48	141	1.088	182	14.16	7002.2	7329.8
10-Oct-16 12:45:00	28	81	43		226	48	147	1.044	228	14.17	7004.4	7331.7
10-Oct-16 13:00:00	Electrical Conductivity=59mS, Water Density=1013.8kg/m3 @30.2degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-296.0mV2. Salinity=32000 ppm											
10-Oct-16 13:00:00	28	82	43		232	48	149	1.069	225	14.18	7006.4	7333.6
10-Oct-16 13:10:00	WHP started to drop, well slugging.											
10-Oct-16 13:15:00	Pressure dropped to127psi, isolated Lo-Pilot to prevent ESD from tripping.											
10-Oct-16 13:15:00	28	57	42		140	48	264	0.621	524	14.19	7008.7	7335.5
10-Oct-16 13:30:00	28	86	43		225	48	137	1.256	80	14.21	7010.9	7337.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
10-Oct-16 13:45:00	28	81	43		232	48	149	1.057	238	14.22	7012.7	7339.3
10-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3.5%, H2S=3ppm.											
10-Oct-16 14:00:00	28	80	43		232	48	148	1.210	139	14.23	7014.4	7341.3
10-Oct-16 14:15:00	28	80	43		231	48	152	1.091	198	14.24	7016.2	7342.2
10-Oct-16 14:30:00	28	80	43		227	48	150	1.208	136	14.25	7018.0	7343.1
10-Oct-16 14:45:00	28	80	43		229	48	146	1.183	132	14.27	7019.8	7344.0
10-Oct-16 15:00:00	Electrical Conductivity=61.1mS, Water Density=1014.5kg/m3 @29.3degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-291.0mV2. Salinity=30000 ppm											
10-Oct-16 15:00:00	28	80	43		226	48	151	1.129	175	14.28	7021.6	7345.0
10-Oct-16 15:15:00	28	81	43		227	47	148	1.078	211	14.29	7023.4	7345.9
10-Oct-16 15:30:00	28	79	43		223	47	148	0.996	244	14.30	7025.5	7346.8
10-Oct-16 15:45:00	28	81	43		227	47	143	1.130	168	14.31	7027.6	7347.7
10-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
10-Oct-16 16:00:00	Took Isotube gas sample #22 @ 65 psi, 46 degC.											
10-Oct-16 16:00:00	28	80	43		232	47	154	1.195	158	14.32	7029.4	7348.7
10-Oct-16 16:15:00	28	80	43		234	47	154	1.092	202	14.34	7031.3	7349.6
10-Oct-16 16:30:00	28	80	43		229	47	148	1.218	142	14.35	7033.2	7350.5
10-Oct-16 16:45:00	28	80	42		229	46	142	1.097	190	14.36	7035.3	7351.5
10-Oct-16 17:00:00	Pumped Frac Tank into pond.											
10-Oct-16 17:00:00	28	79	42		231	46	152	1.176	140	14.37	7037.2	7352.4
10-Oct-16 17:15:00	28	80	42		224	45	145	1.183	125	14.38	7039.0	7354.4
10-Oct-16 17:30:00	28	81	42		228	45	146	1.150	174	14.39	7041.0	7356.4
10-Oct-16 17:45:00	28	80	41		227	45	147	1.123	179	14.41	7042.9	7358.4
10-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
10-Oct-16 18:00:00	28	81	41		231	45	147	1.212	137	14.42	7044.8	7360.4
10-Oct-16 18:15:00	28	81	41		228	45	149	1.172	167	14.43	7046.9	7362.3
10-Oct-16 18:30:00	28	80	40		229	44	150	1.187	159	14.44	7048.6	7364.3
10-Oct-16 18:45:00	28	81	40		232	44	146	1.149	173	14.45	7050.7	7366.2
10-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.644, CO2=3%, H2S=4ppm.											
10-Oct-16 19:00:00	Electrical Conductivity=53.8mS, Water Density=1012.4kg/m3 @33degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-292.5mV2. Salinity=33000 ppm											
10-Oct-16 19:00:00	28	81	40		231	44	147	1.140	179	14.46	7052.7	7368.2
10-Oct-16 19:15:00	28	80	39		227	44	146	1.242	116	14.48	7054.6	7370.1
10-Oct-16 19:30:00	28	78	39		236	44	161	1.129	244	14.49	7056.4	7372.1
10-Oct-16 19:45:00	28	80	38		233	43	149	1.321	98	14.50	7058.2	7374.0
10-Oct-16 20:00:00	28	81	38		232	43	148	1.044	231	14.51	7060.2	7376.0
10-Oct-16 20:15:00	28	80	38		231	43	148	1.096	204	14.52	7062.3	7378.0
10-Oct-16 20:30:00	28	80	38		229	43	145	1.177	147	14.54	7064.3	7380.1
10-Oct-16 20:45:00	28	81	38		234	43	149	1.144	163	14.55	7066.1	7382.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
10-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
10-Oct-16 21:00:00	Electrical Conductivity=52.12mS, Water Density=1012.9kg/m3 @30.8degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-273.3mV2. Salinity=33000 ppm											
10-Oct-16 21:00:00	28	80	37		230	43	148	1.151	174	14.56	7068.1	7384.2
10-Oct-16 21:15:00	28	79	37		229	43	151	1.026	247	14.57	7070.0	7385.9
10-Oct-16 21:30:00	28	80	37		231	43	146	1.068	208	14.58	7071.7	7387.7
10-Oct-16 21:45:00	28	79	37		230	43	143	1.095	186	14.60	7073.5	7389.4
10-Oct-16 22:00:00	28	80	37		229	43	147	1.351	83	14.61	7075.3	7391.2
10-Oct-16 22:15:00	28	80	36		232	42	149	1.138	197	14.62	7077.1	7392.9
10-Oct-16 22:30:00	28	80	36		229	42	143	1.092	195	14.63	7079.0	7394.5
10-Oct-16 22:45:00	28	80	36		233	42	152	1.127	196	14.64	7080.8	7396.2
10-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
10-Oct-16 23:00:00	Electrical Conductivity=50.39mS, Water Density=1012.5kg/m3 @30.6degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-307.9mV2. Salinity=28000 ppm											
10-Oct-16 23:00:00	28	79	36		227	43	145	1.052	230	14.66	7082.7	7397.8
10-Oct-16 23:15:00	28	80	36		232	43	152	1.073	225	14.67	7084.7	7399.7
10-Oct-16 23:30:00	28	80	36		233	43	148	1.100	214	14.68	7086.5	7401.5
10-Oct-16 23:45:00	28	81	36		235	43	147	1.255	112	14.69	7088.1	7403.4
11-Oct-16 00:00:00	28	79	36									7405.2
11-Oct-16 00:15:00	28	81	36		231	43	143	1.139	167	14.71	7091.6	7407.2
11-Oct-16 00:30:00	28	82	36		234	42	149	1.175	167	14.73	7093.3	7409.2
11-Oct-16 00:45:00	28	82	36		235	43	147	1.085	215	14.74	7095.1	7411.2
11-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
11-Oct-16 01:00:00	Electrical Conductivity=49.95mS, Water Density=1013.6kg/m3 @28.2degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-230.8mV2. Salinity=27000 ppm											
11-Oct-16 01:00:00	28	78	36		237	42	151	1.130	220	14.75	7096.8	7413.2
11-Oct-16 01:15:00	28	80	36		233	42	146	1.307	93	14.76	7098.6	7415.4
11-Oct-16 01:30:00	28	80	36		236	43	149	1.060	262	14.77	7100.3	7417.7
11-Oct-16 01:45:00	28	80	36		236	43	146	1.201	151	14.79	7102.0	7419.9
11-Oct-16 02:00:00	28	80	36		227	42	136	1.148	141	14.80	7103.6	7422.1
11-Oct-16 02:15:00	28	80	36		229	42	145	1.113	187	14.81	7105.5	7424.6
11-Oct-16 02:30:00	28	80	35		227	42	143	1.209	109	14.82	7107.5	7427.0
11-Oct-16 02:45:00	28	80	35		232	42	141	1.176	139	14.83	7109.0	7429.4
11-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
11-Oct-16 03:00:00	Electrical Conductivity=50.49mS, Water Density=1013.5kg/m3 @28.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-188.2mV2. Salinity=25000 ppm											
11-Oct-16 03:00:00	28	80	35		228	42	139	1.210	104	14.85	7110.8	7431.8
11-Oct-16 03:15:00	28	80	35		230	42	145	1.162	142	14.86	7112.2	7432.6
11-Oct-16 03:30:00	28	80	35		230	42	137	1.175	146	14.87	7114.0	7433.4
11-Oct-16 03:45:00	28	79	35		228	42	146	1.128	181	14.88	7115.6	7434.2
11-Oct-16 04:00:00	28	80	35		236	42	146	0.980	245	14.89	7117.5	7435.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
11-Oct-16 04:15:00	28	80	35		231	42	143	1.196	148	14.91	7119.2	7436.9
11-Oct-16 04:30:00	28	81	35		237	42	149	1.050	254	14.92	7120.9	7438.7
11-Oct-16 04:45:00	28	80	35		230	42	146	1.244	135	14.93	7122.5	7440.6
11-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
11-Oct-16 05:00:00	Electrical Conductivity=51.21mS, Water Density=1013.4kg/m3 @28.7degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-172.6mV2. Salinity=25000 ppm											
11-Oct-16 05:00:00	28	79	35		233	42	153	1.143	192	14.94	7124.2	7442.4
11-Oct-16 05:15:00	28	79	35		232	42	147	1.269	104	14.95	7125.8	7444.1
11-Oct-16 05:30:00	28	80	35		233	42	145	1.095	182	14.97	7127.5	7445.8
11-Oct-16 05:45:00	28	80	35		230	42	137	1.081	186	14.98	7129.2	7447.6
11-Oct-16 06:00:00	28	80	35		226	42	139	1.125	162	14.99	7130.9	7449.3
11-Oct-16 06:15:00	28	80	35		234	42	146	1.042	262	15.00	7132.7	7451.4
11-Oct-16 06:30:00	28	80	35		229	41	146	1.001	217	15.01	7134.4	7453.4
11-Oct-16 06:45:00	28	80	34		232	42	146	1.082	207	15.03	7136.3	7455.5
11-Oct-16 07:00:00	28	80	35		229	42	146	1.094	197	15.04	7137.9	7457.6
11-Oct-16 07:15:00	28	80	35		221	43	134	1.160	107	15.05	7139.4	7459.2
11-Oct-16 07:30:00	28	79	36		231	43	151	1.209	168	15.06	7141.1	7460.8
11-Oct-16 07:45:00	28	81	36		232	43	149	1.247	126	15.07	7142.8	7462.4
11-Oct-16 08:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
11-Oct-16 08:00:00	28	81	37		233	44	146	1.143	171	15.09	7144.7	7464.0
11-Oct-16 08:15:00	28	81	37		229	44	142	1.207	134	15.10	7146.5	7465.7
11-Oct-16 08:30:00	28	80	37		221	44	139	1.075	189	15.11	7148.3	7467.3
11-Oct-16 08:45:00	28	82	38		222	45	137	1.096	168	15.12	7150.1	7468.9
11-Oct-16 09:00:00	Electrical Conductivity=54.3mS, Water Density=1013.4kg/m3 @29.3degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-180.6mV2. Salinity=27000 ppm											
11-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=2.5ppm.											
11-Oct-16 09:00:00	28	80	38		229	45	159	1.162	174	15.13	7151.9	7470.5
11-Oct-16 09:15:00	28	79	38		232	45	152	1.227	127	15.14	7153.6	7472.3
11-Oct-16 09:30:00	28	81	39		234	45	149	1.050	226	15.16	7155.6	7474.0
11-Oct-16 09:45:00	28	81	39		231	45	146	1.231	130	15.17	7157.5	7475.8
11-Oct-16 10:00:00	28	80	39		223	46	142	1.049	190	15.18	7159.4	7477.5
11-Oct-16 10:15:00	28	82	40		226	46	148	1.157	164	15.19	7161.2	7479.3
11-Oct-16 10:30:00	28	81	40		223	46	143	1.100	177	15.20	7163.3	7481.1
11-Oct-16 10:45:00	28	81	40		230	46	149	1.310	98	15.21	7165.1	7482.8
11-Oct-16 11:00:00	Electrical Conductivity=48mS, Water Density=1014.8kg/m3 @27.1degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-186.4mV2. Salinity=26000 ppm											
11-Oct-16 11:00:00	28	81	40		224	46	143	1.065	188	15.22	7167.0	7484.6
11-Oct-16 11:15:00	28	82	41		225	46	141	1.151	156	15.24	7169.1	7486.3
11-Oct-16 11:30:00	28	82	41		225	46	145	1.163	147	15.25	7171.2	7488.1
11-Oct-16 11:45:00	28	82	41		227	47	146	1.123	188	15.26	7173.1	7489.8
11-Oct-16 12:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
11-Oct-16 12:00:00	28	81	41		224	47	141	1.194	120	15.27	7175.1	7491.6
11-Oct-16 12:15:00	28	81	41		228	47	144	1.268	94	15.28	7176.9	7493.3
11-Oct-16 12:30:00	28	80	41		228	47	149	1.177	160	15.29	7178.9	7495.1
11-Oct-16 12:45:00	28	79	42		227	47	150	1.208	134	15.30	7180.6	7496.9
11-Oct-16 13:00:00	Electrical Conductivity=60mS, Water Density=1012.4kg/m3 @33.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-182mV2. Salinity=26000 ppm											
11-Oct-16 13:00:00	28	81	42		227	47	152	1.055	230	15.32	7182.5	7498.6
11-Oct-16 13:15:00	28	82	42		220	47	137	1.091	168	15.33	7184.6	7500.4
11-Oct-16 13:30:00	28	82	42		233	47	146	1.047	219	15.34	7186.5	7502.1
11-Oct-16 13:45:00	28	81	42		225	47	145	1.146	156	15.35	7188.4	7503.9
11-Oct-16 14:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.											
11-Oct-16 14:00:00	28	81	42		223	47	138	1.005	214	15.36	7190.4	7505.6
11-Oct-16 14:15:00	28	80	42		224	47	143	1.138	139	15.37	7192.2	7507.4
11-Oct-16 14:30:00	28	83	42		225	47	141	1.160	127	15.38	7194.2	7509.2
11-Oct-16 14:45:00	28	82	42		226	47	143	1.230	114	15.40	7195.8	7510.9
11-Oct-16 15:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=3.5ppm.											
11-Oct-16 15:00:00	28	81	42		229	47	147	1.265	91	15.41	7197.7	7512.7
11-Oct-16 15:15:00	28	83	42		229	47	148	1.093	201	15.42	7199.7	7513.8
11-Oct-16 15:30:00	28	82	42		229	47	147	1.152	151	15.43	7201.4	7515.0
11-Oct-16 15:45:00	28	82	42		226	47	149	1.154	156	15.44	7203.2	7516.1
11-Oct-16 16:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
11-Oct-16 16:00:00	Took Isotube gas sample #23 @ 65 psi, 46 degC.											
11-Oct-16 16:00:00	28	82	42		222	47	141	1.085	185	15.45	7205.2	7517.3
11-Oct-16 16:15:00	28	82	42		225	46	145	1.040	202	15.46	7207.0	7518.1
11-Oct-16 16:30:00	28	83	42		231	45	140	1.092	191	15.48	7209.0	7519.0
11-Oct-16 16:45:00	28	82	41		227	45	148	1.055	210	15.49	7210.8	7519.9
11-Oct-16 17:00:00	BSW=100%, pH=7, Gas SG=0.645, CO2=3%, H2S=4ppm.											
11-Oct-16 17:00:00	Electrical Conductivity=58.2mS, Water Density=1013.2kg/m3 @32.1degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-182.3mV2. Salinity=26000 ppm											
11-Oct-16 17:00:00	28	81	41		227	45	146	1.236	117	15.50	7212.4	7520.8
11-Oct-16 17:15:00	28	82	41		228	45	150	1.137	175	15.51	7214.2	7521.6
11-Oct-16 17:30:00	28	81	40		226	44	146	1.075	215	15.52	7216.0	7522.5
11-Oct-16 17:45:00	28	83	40		226	44	144	1.259	108	15.53	7217.9	7523.4
11-Oct-16 18:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.											
11-Oct-16 18:00:00	28	82	40		230	44	147	1.106	212	15.55	7219.8	7524.3
11-Oct-16 18:15:00	28	80	39		231	44	150	1.237	112	15.56	7221.5	7525.9
11-Oct-16 18:30:00	28	81	39		225	43	149	1.118	184	15.57	7223.3	7527.6
11-Oct-16 18:45:00	28	81	39		225	43	146	1.019	211	15.58	7224.9	7529.3
11-Oct-16 19:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
11-Oct-16 19:00:00	Electrical Conductivity=54.9mS, Water Density=1012.8kg/m3 @31.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-158.9mV2. Salinity=25000 ppm											
11-Oct-16 19:00:00	28	81	39		225	43	141	1.158	142	15.59	7226.6	7531.0
11-Oct-16 19:15:00	28	81	38		224	43	141	1.130	159	15.61	7228.5	7532.8
11-Oct-16 19:30:00	28	80	38		229	43	155	1.118	200	15.62	7230.4	7534.5
11-Oct-16 19:45:00	28	81	38		223	43	139	1.152	136	15.63	7232.1	7536.3
11-Oct-16 20:00:00	28	82	38		228	43	144	1.194	133	15.64	7233.9	7538.0
11-Oct-16 20:15:00	28	80	38		222	43	144	1.067	203	15.65	7235.7	7539.8
11-Oct-16 20:30:00	28	80	37		223	43	141	1.143	118	15.66	7237.3	7541.5
11-Oct-16 20:45:00	28	81	37		223	43	140	1.185	131	15.68	7238.9	7543.3
11-Oct-16 21:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
11-Oct-16 21:00:00	Electrical Conductivity=54.8mS, Water Density=1013.7kg/m3 @30.5degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-173.2mV2. Salinity=24000 ppm											
11-Oct-16 21:00:00	28	81	37		229	43	145	1.083	195	15.69	7240.5	7545.1
11-Oct-16 21:15:00	28	80	37		230	43	143	1.122	167	15.70	7242.1	7546.7
11-Oct-16 21:30:00	28	80	37		224	42	143	1.270	99	15.71	7243.7	7548.4
11-Oct-16 21:45:00	28	80	37		226	42	145	1.188	138	15.72	7245.2	7550.0
11-Oct-16 22:00:00	28	80	37		230	42	150	1.191	161	15.74	7246.9	7551.7
11-Oct-16 22:15:00	28	80	36		228	42	143	1.136	164	15.75	7248.7	7553.4
11-Oct-16 22:30:00	28	80	36		228	42	143	1.157	157	15.76	7250.4	7555.2
11-Oct-16 22:45:00	28	80	36		231	42	150	1.139	217	15.77	7252.1	7556.9
11-Oct-16 23:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
11-Oct-16 23:00:00	Electrical Conductivity=53.2mS, Water Density=1013.8kg/m3 @29degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-151.7mV2. Salinity=22000 ppm											
11-Oct-16 23:00:00	28	81	36		226	42	140	1.122	170	15.78	7254.0	7558.7
11-Oct-16 23:15:00	28	81	36		224	42	136	1.147	147	15.80	7255.7	7560.4
11-Oct-16 23:30:00	28	80	36		230	42	142	1.120	176	15.81	7257.5	7562.0
11-Oct-16 23:45:00	28	79	35		226	42	140	1.051	206	15.82	7259.4	7563.7
12-Oct-16 00:00:00	28	81	35									7565.3
12-Oct-16 00:15:00	28	80	36		229	42	144	1.144	183	15.84	7262.7	7567.1
12-Oct-16 00:30:00	28	79	36		233	42	146	1.086	209	15.85	7264.4	7568.9
12-Oct-16 00:45:00	28	80	36		222	42	136	1.117	147	15.86	7266.2	7570.6
12-Oct-16 01:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 01:00:00	Electrical Conductivity=54.5mS, Water Density=1012.6kg/m3 @28.8degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-155.6mV2. Salinity=22000 ppm											
12-Oct-16 01:00:00	28	80	36		223	42	136	1.203	121	15.88	7267.9	7572.4
12-Oct-16 01:15:00	28	82	35		231	41	142	1.150	163	15.89	7269.6	7574.3
12-Oct-16 01:30:00	28	80	35		226	41	142	1.045	224	15.90	7271.6	7576.2
12-Oct-16 01:45:00	28	82	35		230	41	140	1.204	139	15.91	7273.2	7578.2
12-Oct-16 02:00:00	28	81	35		228	41	141	1.214	125	15.92	7274.7	7580.1
12-Oct-16 02:15:00	28	80	35		228	41	148	1.152	164	15.94	7276.3	7581.7
12-Oct-16 02:30:00	28	81	35		225	41	137	1.031	213	15.95	7278.0	7583.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
12-Oct-16 02:45:00	28	82	34		230	41	139	1.216	108	15.96	7279.6	7584.8
12-Oct-16 03:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 03:00:00	Electrical Conductivity=52mS, Water Density=1014kg/m3 @27.6degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-173.2mV2. Salinity=19000 ppm											
12-Oct-16 03:00:00	28	81	34		226	41	142	1.332	70	15.97	7281.2	7586.4
12-Oct-16 03:15:00	28	81	34		226	41	136	1.346	49	15.98	7282.7	7588.0
12-Oct-16 03:30:00	28	81	34		225	41	138	1.079	173	16.00	7284.3	7589.6
12-Oct-16 03:45:00	28	81	34		232	40	144	1.176	168	16.01	7285.9	7591.2
12-Oct-16 04:00:00	28	80	34		224	41	140	1.262	95	16.02	7287.4	7592.8
12-Oct-16 04:15:00	28	79	34		228	40	138	1.181	136	16.03	7289.0	7594.6
12-Oct-16 04:30:00	28	81	33		224	40	140	1.194	123	16.04	7290.9	7596.5
12-Oct-16 04:45:00	28	80	33		227	40	139	1.123	150	16.06	7292.6	7598.3
12-Oct-16 05:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 05:00:00	Electrical Conductivity=51.4mS, Water Density=1014.5kg/m3 @26.5degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-149.1mV2. Salinity=19000 ppm											
12-Oct-16 05:00:00	28	81	33		228	40	142	1.210	127	16.07	7294.0	7600.2
12-Oct-16 05:15:00	28	80	33		224	40	137	1.172	125	16.08	7295.7	7602.0
12-Oct-16 05:30:00	28	81	33		224	40	136	1.024	184	16.09	7297.5	7603.8
12-Oct-16 05:45:00	28	78	33		219	40	136	0.975	232	16.10	7299.2	7605.7
12-Oct-16 06:00:00	28	80	33		225	40	137	1.212	124	16.12	7300.7	7607.5
12-Oct-16 06:15:00	28	81	33		226	40	138	1.006	229	16.13	7302.2	7609.2
12-Oct-16 06:30:00	28	81	33		227	40	140	1.127	169	16.14	7303.8	7611.0
12-Oct-16 06:45:00	28	81	33		224	40	139	1.002	212	16.15	7305.3	7612.7
12-Oct-16 06:56:00	WHP started to drop, well slugging.											
12-Oct-16 07:00:00	28	76	33		192	41	117	0.979	139	16.16	7306.8	7614.4
12-Oct-16 07:06:00	Water at surface, collected sample BSW=100%, pH=7, Gas SG=0.65, CO2=4%, H2S=4ppm.											
12-Oct-16 07:06:00	Slug water results; BSW 100% Electrical Conductivity=54.1mS, Water Density=1014.6kg/m3 @26.1degC, Dissolved Oxygen=1.8%S, Oxidation Reduction Potential=-148.2mV2. Salinity=21600 ppm											
12-Oct-16 07:15:00	28	98	34		228	41	136	1.081	166	16.18	7308.8	7616.1
12-Oct-16 07:20:00	Tried to capture another BSW, was not enough liquid at sample point. No sign of solids in sample.											
12-Oct-16 07:22:00	Rates stabilized.											
12-Oct-16 07:30:00	28	92	34		222	41	134	1.132	154	16.19	7310.5	7617.9
12-Oct-16 07:45:00	28	91	34		226	41	141	1.055	218	16.20	7312.2	7619.6
12-Oct-16 08:00:00	28	90	34		224	41	135	1.083	189	16.21	7314.1	7621.3
12-Oct-16 08:15:00	28	91	35		226	42	137	1.181	151	16.22	7315.8	7622.8
12-Oct-16 08:21:00	Pumped out frac tank to pond											
12-Oct-16 08:30:00	28	91	35		221	42	133	1.067	141	16.23	7317.3	7624.4
12-Oct-16 08:45:00	28	90	35		221	42	132	1.209	90	16.25	7318.8	7625.9
12-Oct-16 09:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=2.5%, H2S=4ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
12-Oct-16 09:00:00	28	91	36		230	43	139	1.097	189	16.26	7320.3	7627.4
12-Oct-16 09:15:00	28	91	36		227	43	140	1.069	192	16.27	7322.2	7628.9
12-Oct-16 09:30:00	28	92	36		225	43	139	1.197	105	16.28	7323.8	7630.4
12-Oct-16 09:41:00	WHP started to drop, well slugging.											
12-Oct-16 09:45:00	28	73	37		164	44	102	0.843	117	16.29	7325.3	7632.0
12-Oct-16 09:47:00	Water at surface, Collected Sample.											
12-Oct-16 09:48:00	Slug water results: BSW 100% Electrical Conductivity=58.1mS, Water Density=1013.7kg/m3 @29.5degC, Dissolved Oxygen=1.9%S, Oxidation Reduction Potential=-156.7mV2. Salinity=20000 ppm											
12-Oct-16 10:00:00	28	96	38		241	45	144	1.275	126	16.30	7327.9	7633.5
12-Oct-16 10:15:00	28	87	38		226	44	138	1.135	155	16.32	7329.6	7635.0
12-Oct-16 10:30:00	28	86	38		224	45	137	1.209	117	16.33	7331.0	7636.5
12-Oct-16 10:45:00	28	85	38		218	45	134	1.085	156	16.34	7332.7	7638.1
12-Oct-16 11:00:00	Instructed by client to bean up to 30/64" adjustable choke.											
12-Oct-16 11:00:00	28	85	39		219	45	137	1.148	120	16.35	7334.2	7639.6
12-Oct-16 11:10:00	Lowerd Separator pressure to 60psig so that critical flow was maintained after choke was beaned up.											
12-Oct-16 11:12:00	Increased Choke to 30/64" adjustable.											
12-Oct-16 11:15:00	30	66	38		208	45	139	1.050	176	16.36	7335.9	7641.1
12-Oct-16 11:18:00	Re-adjusted separator pressure to 60psig.											
12-Oct-16 11:30:00	30	79	39		215	45	150	1.084	197	16.37	7337.7	7642.6
12-Oct-16 11:45:00	30	80	39		214	46	148	1.233	99	16.39	7339.3	7644.1
12-Oct-16 12:00:00	30	79	40		214	46	146	1.082	163	16.40	7341.2	7645.7
12-Oct-16 12:15:00	30	79	40		215	46	145	1.043	198	16.41	7343.1	7647.4
12-Oct-16 12:30:00	30	78	40		221	46	151	1.166	138	16.42	7344.8	7649.2
12-Oct-16 12:45:00	30	79	40		210	46	141	1.089	145	16.43	7346.4	7651.0
12-Oct-16 12:52:00	Lower Separator Pressure to 60psig.											
12-Oct-16 12:54:00	Lowerd Separator pressure to 50psig so that critical flow was maintained after choke was beaned up.											
12-Oct-16 12:55:00	Increased choke to 32/64" adjustable.											
12-Oct-16 13:00:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 13:00:00	32	71	40		196	46	165	1.074	197	16.44	7348.3	7652.8
12-Oct-16 13:15:00	32	71	41		199	46	178	1.004	284	16.45	7350.1	7654.6
12-Oct-16 13:22:00	Instructed by client to bean up to 40/64" adjustable choke.											
12-Oct-16 13:30:00	32	61	41		147	46	235	1.337	98	16.47	7352.4	7656.4
12-Oct-16 13:45:00	32	62	41		146	46	225	1.014	257	16.48	7355.1	7658.2
12-Oct-16 13:50:00	Instructed by client to bean up to 64/64" adjustable choke.											
12-Oct-16 13:53:51	Slowly beaned up choke to 56/64" adjustable in 2/64" increments.											
12-Oct-16 14:00:00	32	55	41		129	46	288	1.256	181	16.49	7357.6	7660.0
12-Oct-16 14:15:00	32	44	41		101	46	352	1.041	320	16.50	7360.0	7661.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
12-Oct-16 14:24:00	Choke at 56/64" adjustable. Stopped increasing choke to maintain critical flow and separator operating pressure.											
12-Oct-16 14:30:00	56	32	40		84	46	396	1.027	283	16.51	7362.8	7663.5
12-Oct-16 14:45:00	56	33	40		84	46	400	0.994	342	16.52	7365.9	7665.3
12-Oct-16 15:00:00	BSW=100% (trace solids), pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
12-Oct-16 15:00:00	56	34	40		87	45	405	1.162	295	16.54	7368.4	7667.1
12-Oct-16 15:01:00	Electrical Conductivity=61.5mS, Water Density=1014.6kg/m3 @33.0degC, Dissolved Oxygen=2.1%S, Oxidation Reduction Potential=-183.0mV2. Salinity=22000 ppm											
12-Oct-16 15:15:00	56	36	40		88	45	407	0.934	409	16.55	7371.1	7668.7
12-Oct-16 15:30:00	56	34	39		85	45	404	1.136	208	16.56	7373.7	7670.3
12-Oct-16 15:45:00	56	33	39		83	45	395	1.027	298	16.57	7376.2	7671.8
12-Oct-16 16:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
12-Oct-16 16:00:00	Took Isotube gas sample #23 @ 33psia 39degC											
12-Oct-16 16:00:00	56	33	39		85	45	402	1.094	277	16.58	7379.0	7673.4
12-Oct-16 16:01:00	Electrical Conductivity 56.1 =mS, Water Density=1014.9kg/m3 @28.0degC, Dissolved Oxygen=2.4%S, Oxidation Reduction Potential=-183.0mV2. Salinity=21000 ppm											
12-Oct-16 16:10:00	BSW=100%, pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
12-Oct-16 16:15:00	56	33	39		85	45	397	1.032	316	16.60	7381.8	7676.0
12-Oct-16 16:30:00	56	33	39		87	45	406	1.269	185	16.61	7384.6	7678.6
12-Oct-16 16:40:00	WHP started to drop, well slugging											
12-Oct-16 16:45:00	56	26	39		71	44	368	0.881	287	16.62	7387.4	7681.2
12-Oct-16 16:48:00	BSW=100% (trace solid), pH=7, Gas SG=0.65, CO2=3%, H2S=3ppm.											
12-Oct-16 16:48:00	WHP restablized from water slug.											
12-Oct-16 17:00:00	56	29	38		80	44	377	0.946	331	16.63	7390.2	7683.8
12-Oct-16 17:15:00	56	31	38		88	43	414	1.113	294	16.64	7392.8	7686.3
12-Oct-16 17:30:00	Dart crashed lost connection to Interact.											
12-Oct-16 17:30:00	56	30	38		84	43	393	1.226	198	16.65	7395.2	7688.9
12-Oct-16 17:35:00	Re-established Dart and Interact connection.											
12-Oct-16 17:41:00	Dart crashed lost connection to Interact.											
12-Oct-16 17:43:00	Re-established Dart and Interact connection.											
12-Oct-16 17:45:00	56	33	38		93	43	431	1.290	232	16.67	7398.6	7691.4
12-Oct-16 18:00:00	56	33	37		98	43	441	1.047	404	16.68	7401.1	7694.0
12-Oct-16 18:15:00	56	30	37		89	42	411	1.022	361	16.69	7403.3	7695.3
12-Oct-16 18:30:00	56	30	36		85	42	391	1.055	295	16.70	7405.8	7696.7
12-Oct-16 18:45:00	56	30	36		89	42	409	1.431	61	16.72	7408.0	7698.1
12-Oct-16 19:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=2%, H2S=4ppm.											
12-Oct-16 19:00:00	Electrical Conductivity=57mS, Water Density=1013.1kg/m3 @30.3degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-166.5mV2. Salinity=19000 ppm											
12-Oct-16 19:00:00	56	30	36		86	42	394	0.940	406	16.73	7410.3	7699.5
12-Oct-16 19:15:00	56	30	35		87	42	397	1.289	163	16.74	7412.9	7702.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
12-Oct-16 19:30:00	56	30	35		87	42	392	1.155	249	16.75	7415.7	7705.4
12-Oct-16 19:45:00	56	30	35		85	42	382	1.026	339	16.76	7418.8	7708.3
12-Oct-16 20:00:00	56	27	35		80	42	385	0.953	321	16.77	7421.1	7711.2
12-Oct-16 20:15:00	56	30	35		87	42	390	1.109	288	16.79	7424.1	7712.0
12-Oct-16 20:30:00	56	31	35		90	42	396	1.105	300	16.80	7426.7	7712.8
12-Oct-16 20:45:00	56	30	34		89	42	401	1.492	53	16.81	7428.9	7713.6
12-Oct-16 21:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
12-Oct-16 21:00:00	Electrical Conductivity=55.4mS, Water Density=1013.7kg/m3 @29.4degC, Dissolved Oxygen=2.0%S, Oxidation Reduction Potential=-173.2mV2. Salinity=18000 ppm											
12-Oct-16 21:00:00	56	30	34		88	41	387	1.132	240	16.82	7431.3	7714.3
12-Oct-16 21:15:00	56	30	34		84	41	364	1.007	347	16.84	7433.7	7360.4
12-Oct-16 21:30:00	56	31	34		96	41	429	1.014	385	16.85	7436.2	7006.5
12-Oct-16 21:45:00	56	31	34		91	41	402	1.054	351	16.86	7438.6	6652.6
12-Oct-16 22:00:00	56	30	34		88	41	389	1.069	290	16.87	7441.4	6298.7
12-Oct-16 22:15:00	56	30	33		87	41	387	1.022	364	16.88	7444.0	6655.8
12-Oct-16 22:30:00	56	30	33		88	41	390	1.329	115	16.90	7446.2	7013.0
12-Oct-16 22:45:00	56	30	33		85	41	371	1.165	209	16.91	7448.8	7370.1
12-Oct-16 23:00:00	BSW=100% with trace of solids, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
12-Oct-16 23:00:00	Electrical Conductivity=53.6mS, Water Density=1013.9kg/m3 @28.3degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-181.7mV2. Salinity=20000 ppm											
12-Oct-16 23:00:00	56	30	33		89	40	397	1.158	229	16.92	7451.4	7727.2
12-Oct-16 23:15:00	56	30	33		87	40	384	1.326	99	16.93	7453.1	7729.1
12-Oct-16 23:30:00	56	30	33		89	40	389	1.344	99	16.95	7455.4	7730.9
12-Oct-16 23:44:00	Dart crashed lost connection to Interact.											
12-Oct-16 23:45:00	56	30	33		87	40	386	1.303	136	16.96	7457.9	7732.8
12-Oct-16 23:46:00	Re-established Dart and Interact connection.											
13-Oct-16 00:00:00	56	29	32									7734.6
13-Oct-16 00:15:00	56	30	32		85	40	382	0.958	363	16.98	7462.5	7736.9
13-Oct-16 00:30:00	56	29	32		81	40	360	1.030	238	16.99	7464.9	7739.2
13-Oct-16 00:45:00	56	31	33		86	40	380	1.100	278	17.01	7467.6	7741.4
13-Oct-16 01:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
13-Oct-16 01:00:00	Electrical Conductivity=53.9mS, Water Density=1014.1kg/m3 @27.6degC, Dissolved Oxygen=2.3%S, Oxidation Reduction Potential=-180.3mV2. Salinity=20000 ppm											
13-Oct-16 01:00:00	56	30	32		85	40	381	1.366	76	17.02	7470.0	7743.7
13-Oct-16 01:15:00	56	30	32		86	40	377	0.928	384	17.03	7472.2	7745.0
13-Oct-16 01:30:00	56	30	32		84	40	366	1.101	229	17.04	7474.8	7746.4
13-Oct-16 01:45:00	56	30	32		86	40	380	1.274	149	17.05	7477.1	7747.7
13-Oct-16 02:00:00	BSW=100% clean, pH=7, Gas SG=0.645, CO2=3%, H2S=3ppm.											
13-Oct-16 02:00:00	56	30	32		87	40	392	1.148	242	17.07	7479.4	7749.1
13-Oct-16 02:15:00	56	29	32		81	40	354	1.210	147	17.08	7481.4	7750.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
13-Oct-16 02:30:00	56	30	32		80	40	346	1.377	20	17.09	7483.7	7752.8
13-Oct-16 02:45:00	56	30	32		86	40	374	1.281	132	17.10	7485.7	7754.6
13-Oct-16 03:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.											
13-Oct-16 03:00:00	Electrical Conductivity=51.9mS, Water Density=1014.5kg/m3 @26.4degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-182.0mV2. Salinity=20000 ppm											
13-Oct-16 03:00:00	56	30	32		88	40	389	0.962	387	17.12	7488.2	7756.4
13-Oct-16 03:15:00	56	32	32		93	40	409	1.204	283	17.13	7490.8	7758.0
13-Oct-16 03:30:00	56	30	32		88	40	394	1.223	206	17.14	7493.1	7759.7
13-Oct-16 03:45:00	56	30	32		89	40	395	1.041	291	17.15	7495.4	7761.3
13-Oct-16 04:00:00	56	30	32		88	40	398	1.165	276	17.17	7498.0	7762.9
13-Oct-16 04:15:00	56	30	32		88	40	384	1.190	226	17.18	7500.4	7764.8
13-Oct-16 04:30:00	56	30	31		86	40	379	1.150	210	17.19	7502.7	7766.8
13-Oct-16 04:45:00	56	39	33		98	41	418	1.240	293	17.20	7505.8	7768.7
13-Oct-16 05:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.											
13-Oct-16 05:00:00	Electrical Conductivity=52.0mS, Water Density=1015.8kg/m3 @24.6degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-176.2mV2. Salinity=19000 ppm											
13-Oct-16 05:00:00	56	35	32		88	39	379	1.262	171	17.21	7507.9	7770.7
13-Oct-16 05:15:00	56	35	31		94	39	416	1.122	342	17.23	7510.7	7772.3
13-Oct-16 05:30:00	56	35	31		86	39	370	1.289	120	17.24	7513.1	7773.9
13-Oct-16 05:45:00	56	35	31		90	39	390	1.334	130	17.25	7514.8	7775.5
13-Oct-16 06:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.											
13-Oct-16 06:00:00	56	33	31		82	39	353	1.088	215	17.26	7517.0	7777.1
13-Oct-16 06:15:00	56	34	31		86	39	375	1.035	300	17.28	7519.5	7778.7
13-Oct-16 06:30:00	56	35	31		89	39	385	1.348	127	17.29	7521.9	7780.3
13-Oct-16 06:45:00	56	34	31		87	39	382	1.023	307	17.30	7524.4	7781.9
13-Oct-16 07:00:00	Electrical Conductivity=52.0mS, Water Density=1014.7kg/m3 @26.0degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-172.02mV2. Salinity=19000 ppm											
13-Oct-16 07:00:00	Reviewed rates over night, VX showed significant increase in water rate since bean up, tank straps showed no significant increase.											
13-Oct-16 07:00:00	56	34	32		85	40	383	1.177	177	17.31	7526.7	7783.5
13-Oct-16 07:15:00	Uploaded flow periods and discussed rates issue with VX technical expert.											
13-Oct-16 07:15:00	56	35	32		85	40	383	1.106	247	17.32	7529.7	7785.2
13-Oct-16 07:30:00	56	34	32		84	41	386	1.231	166	17.33	7532.0	7786.9
13-Oct-16 07:45:00	56	34	33		87	41	399	0.963	340	17.35	7534.5	7788.7
13-Oct-16 08:00:00	BSW=100% small trace solids, pH=7, Gas SG=0.65, CO2=3%, H2S=3.5ppm.											
13-Oct-16 08:00:00	56	34	33		86	41	384	1.330	140	17.36	7536.7	7790.4
13-Oct-16 08:15:00	56	34	33		85	41	377	1.035	273	17.37	7539.0	7792.3
13-Oct-16 08:30:00	56	37	34		105	42	470	1.077	428	17.38	7541.7	7794.2
13-Oct-16 08:45:00	56	35	34		99	42	461	1.350	235	17.39	7543.9	7796.0
13-Oct-16 09:00:00	Electrical Conductivity=51.3mS, Water Density=1014.6kg/m3 @25.8degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-155.2mV2. Salinity=19000 ppm											
13-Oct-16 09:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
13-Oct-16 09:00:00	56	33	35		79	42	355	1.037	259	17.41	7546.2	7797.9
13-Oct-16 09:15:00	56	35	35		85	42	379	1.180	205	17.42	7548.7	7799.4
13-Oct-16 09:30:00	56	34	35		84	42	373	1.246	156	17.43	7550.5	7800.8
13-Oct-16 09:45:00	56	34	35		81	43	376	1.047	227	17.44	7553.2	7802.3
13-Oct-16 10:00:00	Electrical Conductivity=56mS, Water Density=1013.8kg/m3 @32.5degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-179mV2. Salinity=17600 ppm											
13-Oct-16 10:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.											
13-Oct-16 10:00:00	56	33	36		78	43	363	1.187	112	17.45	7555.3	7803.8
13-Oct-16 10:14:00	VX technical expert concluded that VX was out of range, started to discuss solutions with town.											
13-Oct-16 10:15:00	56	37	36		91	44	425	1.115	343	17.47	7557.9	7805.5
13-Oct-16 10:30:00	56	35	37		82	44	387	1.195	184	17.48	7560.2	7807.3
13-Oct-16 10:45:00	56	35	37		85	44	403	1.026	360	17.49	7563.3	7809.0
13-Oct-16 11:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3.75%, H2S=3ppm.											
13-Oct-16 11:00:00	Electrical Conductivity=57.6mS, Water Density=1014.5kg/m3 @32.8degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-143.2mV2. Salinity=17000 ppm											
13-Oct-16 11:00:00	56	35	37		82	44	394	1.127	256	17.50	7565.7	7810.8
13-Oct-16 11:15:00	56	35	37		82	44	386	1.075	261	17.51	7568.1	7812.3
13-Oct-16 11:30:00	56	34	38		77	44	369	0.872	362	17.52	7571.1	7813.7
13-Oct-16 11:45:00	56	34	38		77	45	360	0.974	259	17.53	7573.4	7815.2
13-Oct-16 12:00:00	56	34	38		80	45	392	1.007	284	17.54	7575.7	7816.7
13-Oct-16 12:15:00	56	34	38		83	45	390	1.167	153	17.56	7577.9	7818.4
13-Oct-16 12:30:00	56	35	38		81	45	382	0.988	287	17.57	7580.0	7820.2
13-Oct-16 12:45:00	56	33	38		77	45	378	0.986	270	17.58	7582.2	7821.9
13-Oct-16 13:00:00	BSW=100% clean, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
13-Oct-16 13:00:00	Electrical Conductivity=58mS, Water Density=1013.9kg/m3 @32degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-152.2mV2. Salinity=16000 ppm											
13-Oct-16 13:00:00	56	37	39		81	45	379	1.131	228	17.59	7584.7	7823.7
13-Oct-16 13:15:00	56	35	39		85	45	405	1.203	199	17.60	7586.8	7825.3
13-Oct-16 13:30:00	56	35	39		80	45	378	1.228	148	17.62	7588.8	7827.0
13-Oct-16 13:45:00	56	35	39		79	45	367	0.937	279	17.63	7591.1	7828.6
13-Oct-16 14:00:00	56	35	39		80	45	386	0.924	332	17.64	7593.3	7830.3
13-Oct-16 14:15:00	56	35	39		78	45	370	0.955	304	17.65	7596.5	7831.6
13-Oct-16 14:19:49	Started choking back to 18/64" adjustable in 2/64" increments to put VX back in range.											
13-Oct-16 14:30:00	56	35	39		218	46	178	1.242	197	17.66	7599.0	7832.8
13-Oct-16 14:40:46	Choke at 18/64" adjustable, WHP 402 psia.											
13-Oct-16 14:41:00	Increased separator pressure to 72 psia.											
13-Oct-16 14:45:00	18	70	38		390	46	32	0.794	55	17.67	7599.7	7834.1
13-Oct-16 14:54:00	Stopped logging with VX, started import of wet gas license.											
13-Oct-16 14:56:00	Restarted logging with VX.											
13-Oct-16 15:00:00	18	75	37		431	46	42	0.860	102	17.68	7600.1	7835.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
13-Oct-16 15:15:00	18	79	37									7835.9
13-Oct-16 15:30:00	18	76	37		427	46	34	0.940	26	17.69	7601.1	7836.4
13-Oct-16 15:45:00	18	78	37									7837.2
13-Oct-16 16:00:00	Took Isotube gas sample #24 at separator.											
13-Oct-16 16:00:00	18	73	37		410	45	33	0.915	23	17.70	7601.7	7838.1
13-Oct-16 16:15:00	18	72	37		432	45	38	0.867	81	17.71	7602.4	7838.8
13-Oct-16 16:30:00	18	72	37		426	44	37	0.917	57	17.72	7603.1	7839.5
13-Oct-16 16:37:00	WHP started to drop, well slugging.											
13-Oct-16 16:45:00	18	52	37									7840.7
13-Oct-16 16:47:00	Water slug at surface.											
13-Oct-16 16:50:00	Gas at surface.											
13-Oct-16 17:00:00	18	77	38									7842.0
13-Oct-16 17:15:00	18	77	37		532	43	33	0.892	78	17.73	7603.4	7843.1
13-Oct-16 17:30:00	18	71	35		479	42	28	0.828	57	17.74	7603.9	7844.2
13-Oct-16 17:45:00	18	74	35		483	41	46	0.806	156	17.74	7604.6	7845.2
13-Oct-16 18:00:00	18	80	36		558	41	36	0.924	88	17.75	7605.7	7846.3
13-Oct-16 18:15:00	18	77	34		513	40	29	0.864	39	17.76	7606.2	7847.3
13-Oct-16 18:30:00	18	69	32		486	39	33	0.810	86	17.77	7606.7	7848.3
13-Oct-16 18:45:00	18	57	32		356	39	21	0.609	48	17.78	7607.4	7849.3
13-Oct-16 19:00:00	Not enough water at sample point to collect BSW.											
13-Oct-16 19:00:00	Gas SG=0.65, CO2=3%, H2S=2ppm.											
13-Oct-16 19:00:00	18	87	34		579	41	43	0.983	111	17.79	7608.9	7850.3
13-Oct-16 19:15:00	18	86	32		561	40	34	1.020	49	17.80	7609.7	7851.5
13-Oct-16 19:17:00	Dart crashed lost connection to Interact.											
13-Oct-16 19:20:00	Re-established Dart and Interact connection.											
13-Oct-16 19:30:00	18	78	31		497	39	28	0.873	39	17.81	7610.0	7852.7
13-Oct-16 19:45:00	18	77	30		517	38	34	0.855	87	17.82	7610.6	7853.8
13-Oct-16 20:00:00	18	77	30		511	38	31	0.870	65	17.83	7611.3	7855.0
13-Oct-16 20:15:00	18	58	29		330	37	19	0.588	24	17.84	7611.9	7856.1
13-Oct-16 20:30:00	18	89	31		590	41	43	1.078	86	17.84	7613.9	7857.1
13-Oct-16 20:45:00	18	91	30		601	40	35	1.047	53	17.85	7614.7	7858.1
13-Oct-16 21:00:00	BSW=100% dry, pH=7, Gas SG=0.645, CO2=3%, H2S=2ppm.											
13-Oct-16 21:00:00	Electrical Conductivity=55.4mS, Water Density=1019.8kg/m3 @19degC, Dissolved Oxygen=1.5%S, Oxidation Reduction Potential=-151.7mV2. Salinity=16000 ppm											
13-Oct-16 21:00:00	18	84	29		545	38	30	1.003	33	17.86	7615.2	7859.2
13-Oct-16 21:15:00	18	78	28		524	37	32	0.830	98	17.87	7615.6	7860.3
13-Oct-16 21:30:00	18	78	28		526	38	33	0.871	88	17.88	7616.3	7861.5
13-Oct-16 21:45:00	18	77	28		512	37	32	0.930	53	17.89	7616.9	7862.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
13-Oct-16 22:00:00	18	77	28		514	37	31	0.917	37	17.90	7617.5	7863.8
13-Oct-16 22:15:00	18	76	28		509	37	32	0.892	55	17.91	7618.1	7864.6
13-Oct-16 22:30:00	18	76	28		510	37	31	0.880	58	17.92	7618.8	7865.4
13-Oct-16 22:45:00	18	76	28		510	37	31	0.811	81	17.93	7619.6	7866.2
13-Oct-16 23:00:00	BSW=100% dry, pH=7, Gas SG=0.645, CO2=3%, H2S=2ppm.											
13-Oct-16 23:00:00	Electrical Conductivity=55.4mS, Water Density=1019.5kg/m3 @16.1degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-151.7mV2. Salinity=17000 ppm											
13-Oct-16 23:00:00	18	76	27		511	37	33	0.886	62	17.94	7620.4	7867.0
13-Oct-16 23:15:00	18	76	27		509	37	32	0.854	76	17.95	7621.1	7868.1
13-Oct-16 23:30:00	18	76	27		512	36	32	0.827	91	17.96	7621.9	7869.3
13-Oct-16 23:45:00	18	77	27		514	36	31	0.812	93	17.97	7622.7	7870.4
14-Oct-16 00:00:00	18	76	27									7871.6
14-Oct-16 00:15:00	18	77	27		516	37	33	0.840	87	17.98	7624.1	7872.5
14-Oct-16 00:21:00	MP on 18/64" adjustable choke.											
14-Oct-16 00:21:00	Dropped orifice plate 1.500" diameter.											
14-Oct-16 00:30:00	18	76	27	0.795	512	36	33	0.919	58	17.99	7624.8	7873.4
14-Oct-16 00:35:00	BSW=100% dry, pH=7, Gas SG=0.644, CO2=4%, H2S=4ppm.											
14-Oct-16 00:45:00	18	77	27	0.831	518	37	34	0.855	94	18.00	7625.6	7874.3
14-Oct-16 00:57:00	End of MP.											
14-Oct-16 00:58:00	Lifted 1.500" Orifice Plate.											
14-Oct-16 01:00:00	BSW= dry, no solids, pH=7, Gas SG=0.644, CO2=4%, H2S=4ppm.											
14-Oct-16 01:00:00	Electrical Conductivity=42.8mS, Water Density=1018.2kg/m3 @16.1degC, Dissolved Oxygen=1.7%S, Oxidation Reduction Potential=-142.5mV2. Salinity=16500 ppm											
14-Oct-16 01:00:00	18	77	27		517	36	33	0.865	80	18.01	7626.3	7875.3
14-Oct-16 01:15:00	18	78	27		519	36	32	0.926	51	18.02	7627.2	7876.2
14-Oct-16 01:30:00	18	79	27		518	36	31	0.976	37	18.03	7627.9	7877.1
14-Oct-16 01:45:00	18	77	26		517	36	34	0.895	75	18.04	7628.6	7878.0
14-Oct-16 02:00:00	18	78	26		518	36	34	0.925	63	18.05	7629.4	7878.9
14-Oct-16 02:15:00	18	79	26		520	36	34	0.860	81	18.06	7630.2	7880.2
14-Oct-16 02:30:00	18	78	26		519	36	33	0.922	69	18.07	7630.9	7881.5
14-Oct-16 02:45:00	18	79	26		522	36	35	0.898	89	18.07	7631.7	7882.7
14-Oct-16 03:00:00	BSW= 100%, pH=7, Gas SG=0.642, CO2=4%, H2S=4ppm											
14-Oct-16 03:00:00	Electrical Conductivity=47mS, Water Density=1015.7kg/m3 @22.3degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-152.6mV2. Salinity=17000 ppm											
14-Oct-16 03:00:00	18	79	26		522	36	33	0.896	67	18.08	7632.4	7884.0
14-Oct-16 03:15:00	18	60	26		314	35	15	0.523	23	18.09	7633.0	7885.4
14-Oct-16 03:30:00	18	92	28		612	39	38	1.049	81	18.10	7634.9	7886.8
14-Oct-16 03:45:00	18	90	27		571	37	31	1.028	32	18.11	7635.5	7888.1
14-Oct-16 04:00:00	18	83	26		529	36	33	1.005	37	18.12	7635.9	7889.5
14-Oct-16 04:15:00	18	77	26		496	36	28	0.826	59	18.13	7636.5	7890.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
14-Oct-16 04:30:00	18	87	26		564	37	34	0.944	69	18.14	7637.5	7891.4
14-Oct-16 04:45:00	18	84	26		517	36	27	0.969	17	18.15	7637.9	7892.3
14-Oct-16 05:00:00	Gas SG=0.645, CO2=4%, H2S=4ppm.											
14-Oct-16 05:00:00	Not enough water at choke sample point to collect BS&W.											
14-Oct-16 05:00:00	18	82	25		526	36	33	0.861	88	18.16	7638.6	7893.2
14-Oct-16 05:08:00	Dart crashed lost connection to Interact.											
14-Oct-16 05:11:00	Re-established Dart and Interact connection.											
14-Oct-16 05:15:00	18	81	25		524	36	31	0.832	84	18.17	7639.3	7894.1
14-Oct-16 05:30:00	18	81	25		528	35	33	0.944	56	18.18	7640.0	7895.0
14-Oct-16 05:45:00	18	81	25		519	35	32	0.836	92	18.19	7640.8	7896.0
14-Oct-16 06:00:00	CO2=3%, H2S=4ppm, BSW dry, no solids.											
14-Oct-16 06:00:00	18	80	24		522	35	31	0.930	49	18.20	7641.5	7896.9
14-Oct-16 06:15:00	18	81	24		520	35	31	0.917	46	18.20	7642.2	7897.9
14-Oct-16 06:30:00	18	81	24		520	36	31	0.910	50	18.21	7642.9	7898.8
14-Oct-16 06:45:00	18	81	25		521	37	30	0.910	47	18.22	7643.6	7899.8
14-Oct-16 07:00:00	Gas SG=0.644, BS&W dry no solids.											
14-Oct-16 07:00:00	18	81	25		517	37	31	0.917	42	18.23	7644.4	7900.8
14-Oct-16 07:15:00	18	80	26		515	37	32	0.848	75	18.24	7645.1	7902.1
14-Oct-16 07:30:00	18	81	26		517	37	33	0.917	64	18.25	7645.8	7903.3
14-Oct-16 07:44:00	Started Increaseing choke from 18/64" adjustable to maintain 300 psi on WHP in 2/64" incraments (as per WSR instruction).											
14-Oct-16 07:45:00	18	83	27		518	37	36	0.910	71	18.26	7646.7	7904.6
14-Oct-16 07:53:00	Choke set at 26/64" adjustable to maintain 300 psi on WHP.											
14-Oct-16 08:00:00	BSW dry, no solids.											
14-Oct-16 08:00:00	26	77	29		287	39	137	1.043	261	18.27	7648.5	7905.9
14-Oct-16 08:15:00	26	93	32		322	41	128	1.286	178	18.28	7650.7	7908.1
14-Oct-16 08:30:00	26	96	33		327	41	131	1.403	123	18.30	7652.5	7910.3
14-Oct-16 08:45:00	26	95	33		318	41	122	1.205	174	18.31	7654.2	7912.6
14-Oct-16 09:00:00	Gas SG=0.644, BSW=100%, CO2=3.5%, H2S=4.5ppm.											
14-Oct-16 09:00:00	Electrical Conductivity=51.1mS, Water Density=1013.3kg/m3 @28.2degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-159.5mV2.											
14-Oct-16 09:00:00	26	94	34		311	42	118	1.275	126	18.32	7655.8	7914.8
14-Oct-16 09:15:00	26	94	34		310	42	114	1.290	97	18.33	7657.2	7916.4
14-Oct-16 09:30:00	26	94	35		308	43	115	1.270	107	18.35	7658.6	7918.0
14-Oct-16 09:45:00	26	92	35		297	43	106	1.148	130	18.36	7659.9	7919.7
14-Oct-16 10:00:00	BSW=100%, Gas SG 0.644.											
14-Oct-16 10:00:00	26	91	36		290	43	104	1.194	108	18.37	7661.3	7921.3
14-Oct-16 10:15:00	26	90	36		290	43	106	1.288	69	18.38	7662.6	7922.8
14-Oct-16 10:30:00	26	90	36		293	44	108	1.113	157	18.40	7664.1	7924.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
14-Oct-16 10:45:00	26	89	37		287	44	106	0.990	205	18.41	7665.5	7925.7
14-Oct-16 11:00:00	Pumped out 65.8bbl from tank to pond.											
14-Oct-16 11:00:00	Electrical Conductivity=53.7mS, Water Density=1015.4kg/m3 @26.1degC, Dissolved Oxygen=1.7%, Oxidation Reduction Potential=-163.2mV2.											
14-Oct-16 11:00:00	BSW 100% no solids.											
14-Oct-16 11:00:00	26	88	37		283	44	107	1.183	117	18.42	7666.9	7927.2
14-Oct-16 11:15:00	26	88	38		284	45	107	1.105	154	18.43	7668.4	7928.8
14-Oct-16 11:30:00	26	88	38		284	45	110	1.179	123	18.44	7669.8	7930.3
14-Oct-16 11:45:00	26	88	39		281	45	106	1.100	157	18.46	7671.4	7931.8
14-Oct-16 12:00:00	Electrical Conductivity=54.6mS, Water Density=1015.7kg/m3 @26.5degC, Dissolved Oxygen=1.7%S, Oxidation Reduction Potential=-160.1mV2.											
14-Oct-16 12:00:00	BSW dry no solids, Gas SG=0.644, CO2=4%, H2S=5ppm											
14-Oct-16 12:00:00	26	88	39		284	45	107	1.158	118	18.47	7672.9	7933.3
14-Oct-16 12:15:00	26	86	39		278	45	108	1.152	119	18.48	7674.2	7935.0
14-Oct-16 12:30:00	MP on 26/64" adjustable choke.											
14-Oct-16 12:30:00	Lowered 1.75" orifice plate, checked for carry over, gas SG 0.644.											
14-Oct-16 12:30:00	26	86	39		275	45	104	0.987	170	18.49	7675.9	7936.6
14-Oct-16 12:45:00	26	85	39	1.073	276	45	103	1.071	136	18.50	7677.5	7938.2
14-Oct-16 13:00:00	BSW dry no solids.											
14-Oct-16 13:00:00	26	85	39	1.077	280	46	109	1.169	111	18.51	7679.0	7939.8
14-Oct-16 13:15:00	Raised 1.75" orifice plate.											
14-Oct-16 13:15:00	26	86	40	1.068	280	46	107	1.075	164	18.52	7680.5	7941.5
14-Oct-16 13:15:00	End of MP.											
14-Oct-16 13:30:00	26	86	40		275	46	102	1.014	162	18.54	7681.9	7943.2
14-Oct-16 13:45:00	26	85	40		274	46	101	1.152	81	18.55	7683.2	7945.0
14-Oct-16 14:00:00	Electrical Conductivity=53.7mS, Water Density=1015.6kg/m3 @27.2degC, Dissolved Oxygen=1.6%S, Oxidation Reduction Potential=-172mV2.											
14-Oct-16 14:00:00	26	85	40		273	45	105	1.016	164	18.56	7684.7	7946.7
14-Oct-16 14:10:00	BSW=100% no solids.											
14-Oct-16 14:15:00	26	86	40		279	45	104	1.131	136	18.57	7686.1	7948.1
14-Oct-16 14:30:00	26	85	40		278	45	108	1.139	137	18.58	7687.5	7949.6
14-Oct-16 14:45:00	26	85	40		277	45	104	1.069	140	18.59	7688.6	7951.0
14-Oct-16 15:00:00	BSW=100% small trace of solids, H2S 4.5ppm, CO2 4%.											
14-Oct-16 15:00:00	26	85	40		276	45	111	1.105	149	18.61	7690.1	7952.4
14-Oct-16 15:15:00	26	84	40		274	45	110	1.023	177	18.62	7691.5	7955.1
14-Oct-16 15:25:00	Lower Seperator Pressure to 36 psia.											
14-Oct-16 15:30:00	26	39	39		278	45	105	1.150	113	18.63	7693.2	7957.8
14-Oct-16 15:32:00	Started to increase choke in 2/64" increments to maintain approximentely 100 psi WHP (as per WSR instruction).											
14-Oct-16 15:36:00	Flare went out due to wind.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
14-Oct-16 15:40:00	Re-lit flare then continued increasing choke.											
14-Oct-16 15:45:00	26	38	38		200	45	178	1.102	216	18.64	7695.3	7960.5
14-Oct-16 16:00:00	26	40	39		145	45	260	1.234	208	18.65	7697.6	7963.2
14-Oct-16 16:15:00	26	41	39		108	45	363	0.982	409	18.66	7700.6	7964.2
14-Oct-16 16:20:00	Increased Choke to 52/64" adjustable, WHP 111.8 psia.											
14-Oct-16 16:30:00	Took IsoTube Sample #26 from Separator at 32.1 psi 38.4 degC.											
14-Oct-16 16:30:00	BSW=100% no solids, H2S 4ppm, CO2 2.5%.											
14-Oct-16 16:30:00	52	32	38		99	45	368	1.144	261	18.68	7703.3	7965.2
14-Oct-16 16:45:00	52	33	38		103	44	382	1.251	188	18.69	7706.1	7966.2
14-Oct-16 17:00:00	Pumped out 39.25 bbls of fluid from frac tank to pond.											
14-Oct-16 17:00:00	BSW=100% no solids.											
14-Oct-16 17:00:00	52	32	38		98	44	363	1.043	339	18.70	7708.9	7967.1
14-Oct-16 17:15:00	52	32	38		95	43	356	1.055	309	18.71	7711.9	7969.1
14-Oct-16 17:30:00	52	31	37		95	43	357	0.934	381	18.72	7714.6	7971.0
14-Oct-16 17:45:00	52	32	37		98	43	368	1.249	189	18.73	7717.4	7973.0
14-Oct-16 18:00:00	BSW=100% no solids, H2S 4ppm CO2 3%.											
14-Oct-16 18:00:00	52	31	37									7974.9
14-Oct-16 18:15:00	52	31	36		93	42	351	1.211	179	18.76	7722.1	7976.7
14-Oct-16 18:30:00	52	32	36		99	42	367	1.388	121	18.77	7724.8	7978.6
14-Oct-16 18:45:00	52	31	35		98	42	368	1.091	307	18.78	7727.1	7980.4
14-Oct-16 18:47:00	Well started slugging.											
14-Oct-16 19:00:00	BSW=100% no solids, pH=7, Gas SG=0.65, CO2=3%, H2S=4ppm.											
14-Oct-16 19:00:00	Electrical Conductivity=53.7mS, Water Density=1014.8kg/m3 @27.0degC, Dissolved Oxygen=0.7%S, Oxidation Reduction Potential=-178.0mV2. Salinity=18000 ppm.											
14-Oct-16 19:00:00	52	30	35		91	42	331	1.042	251	18.79	7729.7	7982.3
14-Oct-16 19:15:00	52	32	35		97	42	344	0.971	344	18.80	7732.8	7984.3
14-Oct-16 19:30:00	52	32	34		99	41	352	1.156	227	18.82	7735.3	7986.4
14-Oct-16 19:45:00	52	29	34		88	41	312	1.103	182	18.83	7737.3	7988.5
14-Oct-16 20:00:00	BSW 100% no solids.											
14-Oct-16 20:00:00	52	34	34		104	42	365	1.241	250	18.84	7740.2	7990.5
14-Oct-16 20:15:00	52	32	34		100	41	355	0.915	457	18.85	7742.4	7992.3
14-Oct-16 20:30:00	52	32	33		102	41	351	1.173	238	18.87	7744.7	7994.0
14-Oct-16 20:45:00	52	34	34		109	42	385	1.464	162	18.88	7747.5	7995.7
14-Oct-16 21:00:00	BSW 100% no solids, pH=7, Gas SG=0.655, CO2=3.75%, H2S=4ppm.											
14-Oct-16 21:00:00	Electrical Conductivity=52.3mS, Water Density=1014.3kg/m3 @27.8degC, Dissolved Oxygen=1.0%S, Oxidation Reduction Potential=-175.3mV2. Salinity=18000 ppm.											
14-Oct-16 21:00:00	52	33	33		105	41	375	1.304	199	18.89	7750.2	7997.4
14-Oct-16 21:15:00	52	32	33		101	41	361	1.084	312	18.90	7752.9	7999.0
14-Oct-16 21:30:00	52	32	33		101	41	358	1.323	144	18.91	7755.4	8000.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
14-Oct-16 21:45:00	52	32	33		104	41	364	1.123	245	18.93	7757.3	8002.3
14-Oct-16 22:00:00	BSW 100% no solids.											
14-Oct-16 22:00:00	52	31	33		98	41	349	1.106	227	18.94	7759.7	8003.9
14-Oct-16 22:15:00	52	31	33		98	41	345	1.015	340	18.95	7762.1	8005.8
14-Oct-16 22:30:00	52	30	33		94	41	335	1.313	103	18.96	7764.5	8007.8
14-Oct-16 22:45:00	52	31	32		98	40	349	1.061	292	18.98	7766.8	8009.7
14-Oct-16 23:00:00	BSW 100% no solids, pH=7, Gas SG=0.65.											
14-Oct-16 23:00:00	Electrical Conductivity=50.8mS, Water Density=1014.7kg/m3 @26.4degC, Dissolved Oxygen=0.9%S, Oxidation Reduction Potential=-157.8mV2. Salinity=28000 ppm.											
14-Oct-16 23:00:00	52	32	32		101	40	369	1.173	254	18.99	7768.9	8011.7
14-Oct-16 23:15:00	52	31	32		96	40	336	1.022	311	19.00	7771.4	8013.4
14-Oct-16 23:30:00	52	31	32		96	40	339	1.484	33	19.01	7773.3	8015.1
14-Oct-16 23:45:00	52	30	32		96	40	345	1.081	276	19.03	7775.9	8016.9
15-Oct-16 00:00:00	BSW 100% no solids, 4ppm H2S 3.5% CO2 4%.											
15-Oct-16 00:00:00	52	31	32									8018.6
15-Oct-16 00:15:00	52	31	32		99	40	352	1.424	82	19.05	7780.2	8020.2
15-Oct-16 00:30:00	52	30	32		94	40	340	1.312	99	19.06	7782.1	8021.8
15-Oct-16 00:45:00	52	31	32		95	40	340	1.160	225	19.07	7784.6	8023.4
15-Oct-16 01:00:00	Electrical Conductivity=50.4mS, Water Density=1014.8kg/m3 @27degC, Dissolved Oxygen=0.6%S, Oxidation Reduction Potential=-155.2mV2. Salinity=30000 ppm.											
15-Oct-16 01:00:00	BSW 100% no solids, pH=7, Gas SG=0.65.											
15-Oct-16 01:00:00	52	33	32		110	41	403	1.224	296	19.09	7786.7	8025.0
15-Oct-16 01:15:00	52	31	32		95	41	337	1.168	202	19.10	7788.9	8026.8
15-Oct-16 01:30:00	52	30	32		93	40	328	0.997	298	19.11	7790.8	8028.5
15-Oct-16 01:45:00	52	28	32		87	40	303	0.937	255	19.12	7793.2	8030.2
15-Oct-16 02:00:00	BSW 100% no solids.											
15-Oct-16 02:00:00	52	30	32		92	41	325	1.253	84	19.14	7794.8	8031.9
15-Oct-16 02:15:00	52	34	33		106	41	365	1.302	188	19.15	7796.8	8033.7
15-Oct-16 02:30:00	52	32	32		103	40	357	1.164	266	19.16	7799.1	8035.4
15-Oct-16 02:45:00	52	31	32		97	40	332	1.246	128	19.17	7801.3	8037.1
15-Oct-16 03:00:00	BSW 100% no solids, pH=7, Gas SG=0.65, CO2=4%, H2S=5ppm.											
15-Oct-16 03:00:00	Electrical Conductivity=49.3mS, Water Density=1015.3kg/m3 @23.6degC, Dissolved Oxygen=0.5%S, Oxidation Reduction Potential=-162.7mV2. Salinity=30000 ppm.											
15-Oct-16 03:00:00	52	31	32		96	40	333	1.312	131	19.19	7803.4	8038.8
15-Oct-16 03:15:00	52	32	32		99	40	335	1.236	157	19.20	7805.0	8040.9
15-Oct-16 03:30:00	52	33	32		106	40	367	1.263	214	19.21	7806.8	8043.0
15-Oct-16 03:45:00	52	32	31		104	40	356	1.256	213	19.23	7809.3	8045.0
15-Oct-16 04:00:00	BSW 100% no solids.											
15-Oct-16 04:00:00	52	32	31		102	40	350	1.060	322	19.24	7811.2	8047.1
15-Oct-16 04:15:00	52	31	31		100	40	339	1.024	289	19.25	7812.9	8048.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
15-Oct-16 04:30:00	52	31	31		99	40	335	1.036	293	19.26	7815.3	8049.6
15-Oct-16 04:43:00	Lowered 2.000" Orifice Plate.											
15-Oct-16 04:44:00	MP on 52/64" adjustable choke.											
15-Oct-16 04:45:00	52	31	31	1.082	99	40	338	0.992	359	19.28	7817.2	8050.9
15-Oct-16 04:48:01	BSW 100% clean, pH=7, Gas SG=0.65, CO2=4%, H2S=5ppm.											
15-Oct-16 05:00:00	52	30	30	1.066	96	40	329	0.971	327	19.29	7819.4	8052.2
15-Oct-16 05:15:00	52	31	31	1.088	98	40	334	1.455	31	19.30	7821.5	8053.6
15-Oct-16 05:20:00	Lifted 2.000" Orifice Plate.											
15-Oct-16 05:20:00	End of MP.											
15-Oct-16 05:30:00	52	32	31		98	40	332	0.939	354	19.31	7823.7	8055.0
15-Oct-16 05:42:00	Decreased choke in 2/64" increments until 300 psi on WHP.											
15-Oct-16 05:45:00	52	30	31		131	40	215	1.042	192	19.33	7825.4	8056.5
15-Oct-16 06:00:00	Choked down to 24/64" adjustable.											
15-Oct-16 06:00:00	BSW 100% no solids, H2S 4ppm, CO2 3%.											
15-Oct-16 06:00:00	24	99	31		303	39	77	1.058	101	19.34	7826.4	8057.9
15-Oct-16 06:15:00	24	96	31		300	39	71	1.104	41	19.35	7827.2	8059.1
15-Oct-16 06:30:00	24	94	30		302	39	74	1.110	53	19.36	7827.9	8060.3
15-Oct-16 06:45:00	24	93	31		297	39	74	1.158	39	19.37	7828.7	8061.5
15-Oct-16 07:00:00	BSW dry, no solids.											
15-Oct-16 07:00:00	24	94	31		299	40	75	1.042	96	19.38	7829.8	8062.8
15-Oct-16 07:15:00	24	93	32		296	41	77	1.117	62	19.39	7830.8	8063.8
15-Oct-16 07:30:00	24	93	33		295	41	78	0.997	113	19.40	7832.0	8064.8
15-Oct-16 07:45:00	24	94	33		301	41	78	0.948	139	19.41	7833.2	8065.9
15-Oct-16 08:00:00	BSW dry, no solids.											
15-Oct-16 08:00:00	24	94	34		304	42	85	0.993	113	19.42	7834.2	8066.9
15-Oct-16 08:15:00	24	95	35		304	43	81	0.974	141	19.43	7835.4	8068.3
15-Oct-16 08:30:00	24	93	35		301	42	82	1.042	116	19.45	7836.7	8069.7
15-Oct-16 08:45:00	24	95	35		304	43	84	0.975	135	19.46	7838.0	8071.0
15-Oct-16 09:00:00	BSW 100% no solids, Gas SG 0.644, H2S 4ppm, CO2 2.5%.											
15-Oct-16 09:00:00	24	95	36		301	43	78	0.991	131	19.47	7839.3	8072.4
15-Oct-16 09:02:00	WHP started to drop, well slugging.											
15-Oct-16 09:11:00	Water on surface, collected sample of slug.											
15-Oct-16 09:13:00	Gas on surface, slug passing.											
15-Oct-16 09:13:00	Slug sample BSW 100% pH 7 Electrical Conductivity=57.5mS, Water Density=1015.5kg/m3 @ 23.1degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-171.4											
15-Oct-16 09:15:00	24	91	36		342	44	99	0.975	221	19.47	7841.0	8073.9
15-Oct-16 09:30:00	24	97	37		385	45	85	1.245	107	19.49	7842.7	8075.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
15-Oct-16 09:45:00	WHP unstable, well slugging.											
15-Oct-16 09:45:00	24	86	36		314	45	60	0.949	80	19.50	7843.5	8076.9
15-Oct-16 10:00:00	BSW dry, no solids.											
15-Oct-16 10:00:00	24	85	37		331	45	76	1.085	94	19.51	7844.5	8078.4
15-Oct-16 10:15:00	24	84	37		320	45	72	0.987	105	19.52	7845.4	8079.5
15-Oct-16 10:30:00	24	83	38		319	45	70	0.995	101	19.53	7846.5	8080.7
15-Oct-16 10:45:00	24	83	38		317	45	69	0.991	99	19.54	7847.6	8081.8
15-Oct-16 11:00:00	BSW dry, no solids, Gas SG 0.643.											
15-Oct-16 11:00:00	24	82	38		325	45	77	0.878	188	19.55	7848.8	8083.0
15-Oct-16 11:15:00	24	83	39		321	45	72	1.046	79	19.56	7849.9	8084.3
15-Oct-16 11:30:00	24	82	39		319	46	75	0.958	121	19.57	7851.0	8085.6
15-Oct-16 11:45:00	Switched to 24/64 fixed choke.											
15-Oct-16 11:45:00	24	84	39		321	46	77	1.018	98	19.58	7852.3	8087.0
15-Oct-16 11:55:00	Removed adjustable choke for inspection, found choke tip was eroded, swapped out adjustable choke.											
15-Oct-16 12:00:00	BSW dry, no solids.											
15-Oct-16 12:00:00	24	77	39		411	46	47	0.974	59	19.59	7853.0	8088.3
15-Oct-16 12:06:00	Well head pressure dropping, well slugging.											
15-Oct-16 12:10:00	Wind picked up, increased propane to gas pilot to assist with keeping flare lit.											
15-Oct-16 12:15:00	24	80	38		405	46	48	1.024	45	19.60	7853.9	8089.1
15-Oct-16 12:30:00	24	76	38		394	46	46	0.898	85	19.61	7854.7	8090.0
15-Oct-16 12:45:00	24	77	38		407	46	47	0.836	136	19.62	7855.6	8090.9
15-Oct-16 13:00:00	BSW 100% no solids, Gas SG 0.643, H2S 4.5ppm CO2 4%.											
15-Oct-16 13:00:00	Pumped 53.9 bbls from tank to pond.											
15-Oct-16 13:00:00	pH 7 Electrical Conductivity= 55.7mS@26.4degC, Water Density=1015.2kg/m3 @ 23.8degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-168.4mV2, Salinity 33000ppm.											
15-Oct-16 13:00:00	24	72	38		383	46	45	0.890	84	19.63	7856.5	8091.7
15-Oct-16 13:15:00	24	83	40		452	46	54	0.880	161	19.64	7857.8	8093.4
15-Oct-16 13:30:00	24	87	40		457	46	54	1.047	97	19.65	7859.0	8095.0
15-Oct-16 13:45:00	24	81	39		380	46	44	0.889	80	19.66	7859.7	8096.6
15-Oct-16 14:00:00	BSW dry, no solids.											
15-Oct-16 14:00:00	24	78	39		429	46	49	0.981	88	19.67	7860.7	8098.2
15-Oct-16 14:15:00	24	78	39		405	46	49	0.997	59	19.68	7861.6	8099.2
15-Oct-16 14:30:00	24	78	39		417	46	49	0.940	84	19.69	7862.5	8100.1
15-Oct-16 14:45:00	24	78	39		412	46	47	0.893	106	19.70	7863.4	8101.0
15-Oct-16 15:00:00	BSW dry, no solids.											
15-Oct-16 15:00:00	Switched to 24/64" adjustable choke.											
15-Oct-16 15:00:00	24	89	39		386	45	73	0.994	163	19.71	7864.4	8101.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
15-Oct-16 15:03:00	Increased to 28/64" adjustable choke. Installed 28/64" choke bean.											
15-Oct-16 15:04:00	Switched to 28/64" fixed choke.											
15-Oct-16 15:05:00	BSW dry no solids.											
15-Oct-16 15:14:00	Dart crashed lost connection to Interact.											
15-Oct-16 15:15:00	28	63	39		341	45	78	0.989	139	19.72	7865.9	8103.5
15-Oct-16 15:17:00	Re-established Dart and Interact connection.											
15-Oct-16 15:22:00	WHP unstable, well slugging.											
15-Oct-16 15:30:00	28	67	39		316	45	69	0.982	91	19.73	7867.3	8105.1
15-Oct-16 15:45:00	28	77	40		375	45	84	1.154	129	19.74	7869.0	8106.8
15-Oct-16 16:00:00	Took Isotube sample #27 from Separator at 71psia, gas SG 0.643, 39.1 degC.											
15-Oct-16 16:00:00	BSW = Dry no Solids CO2 4% H2S 4ppm.											
15-Oct-16 16:00:00	28	71	39		338	45	75	1.046	105	19.75	7870.2	8108.4
15-Oct-16 16:15:00	28	74	39		347	45	77	1.091	114	19.77	7871.3	8109.6
15-Oct-16 16:30:00	28	73	39		345	45	78	1.050	119	19.78	7872.5	8110.9
15-Oct-16 16:45:00	28	73	39		342	45	76	1.023	131	19.79	7873.8	8112.2
15-Oct-16 16:56:00	WHP dropping, well slugging.											
15-Oct-16 17:00:00	Water at surface, captured sample.											
15-Oct-16 17:00:00	28	53	38		252	44	53	0.740	96	19.80	7874.9	8113.4
15-Oct-16 17:02:00	BSW 100% with trace of solids.											
15-Oct-16 17:02:00	Slug Results =PH7 Electrical Conductivity= 52.4mS@29.6degC, Water Density=1014.2kg/m3 @ 28.8degC, Dissolved Oxygen=1.4%S, Oxidation Reduction Potential=-176.2mV2, Salinity 33000ppm.											
15-Oct-16 17:15:00	28	88	40		416	44	94	1.309	125	19.81	7876.3	8114.9
15-Oct-16 17:30:00	28	77	38		317	43	72	1.070	73	19.82	7877.3	8116.4
15-Oct-16 17:45:00	28	73	38		350	43	78	1.065	125	19.83	7878.5	8117.9
15-Oct-16 18:00:00	BSW dry no solids CO2 4% H2S 4ppm.											
15-Oct-16 18:00:00	28	72	37		329	42	74	1.084	89	19.84	7879.4	8119.4
15-Oct-16 18:15:00	28	72	37		338	42	77	1.009	128	19.85	7880.5	8120.8
15-Oct-16 18:30:00	28	71	36		336	42	76	1.107	93	19.87	7881.6	8122.2
15-Oct-16 18:45:00	28	71	36		341	41	81	1.082	117	19.88	7882.7	8123.5
15-Oct-16 19:00:00	BSW dry no solids Gas SG=0.65.											
15-Oct-16 19:00:00	28	71	35		330	41	75	1.037	105	19.89	7883.8	8124.9
15-Oct-16 19:15:00	28	71	34		334	41	76	1.101	96	19.90	7885.0	8126.2
15-Oct-16 19:30:00	28	77	34		328	40	75	1.156	60	19.91	7886.0	8127.4
15-Oct-16 19:45:00	28	78	34		342	40	78	1.091	114	19.92	7887.1	8128.7
15-Oct-16 20:00:00	BSW dry no solids.											
15-Oct-16 20:00:00	28	77	33		334	40	75	1.057	116	19.93	7888.2	8130.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
15-Oct-16 20:15:00	28	76	33		340	40	74	0.995	138	19.94	7889.3	8131.4
15-Oct-16 20:30:00	28	78	33		337	40	77	0.985	159	19.95	7890.4	8132.7
15-Oct-16 20:45:00	28	76	32		341	40	79	0.990	161	19.97	7891.6	8134.1
15-Oct-16 21:00:00	BSW dry no solids Gas SG=0.65 CO2 4% H2S 4ppm.											
15-Oct-16 21:00:00	28	77	32		335	40	77	0.975	148	19.98	7892.7	8135.5
15-Oct-16 21:15:00	28	78	32		331	39	78	1.088	109	19.99	7893.9	8136.9
15-Oct-16 21:30:00	28	76	32		337	40	74	0.994	150	20.00	7895.1	8138.3
15-Oct-16 21:45:00	28	77	32		338	40	73	0.992	132	20.01	7896.3	8139.6
15-Oct-16 22:00:00	BSW dry no solids.											
15-Oct-16 22:00:00	28	77	32		336	40	73	1.073	95	20.02	7897.7	8141.0
15-Oct-16 22:15:00	28	78	32		327	40	75	0.972	151	20.03	7898.9	8142.3
15-Oct-16 22:21:00	WHP dropped, well started slugging.											
15-Oct-16 22:30:00	28	89	32		373	40	86	0.863	269	20.04	7900.4	8143.6
15-Oct-16 22:45:00	28	96	33		379	41	86	1.213	107	20.05	7902.2	8144.8
15-Oct-16 23:00:00	BSW dry no solids Gas S.G.=0.646.											
15-Oct-16 23:00:00	28	80	32		331	40	74	0.977	140	20.06	7902.9	8146.1
15-Oct-16 23:15:00	28	85	32		343	40	77	1.158	81	20.08	7904.1	8147.6
15-Oct-16 23:30:00	28	81	32		335	40	75	1.024	120	20.09	7905.1	8149.1
15-Oct-16 23:45:00	28	83	32		336	40	72	1.044	100	20.10	7906.0	8150.6
16-Oct-16 00:00:00	CO2 3% H2S 4ppm.											
16-Oct-16 00:00:00	28	83	32									8152.1
16-Oct-16 00:15:00	28	83	32		331	39	73	1.037	99	20.12	7908.0	8153.2
16-Oct-16 00:30:00	28	81	32		328	39	73	1.202	47	20.13	7909.0	8154.4
16-Oct-16 00:45:00	28	80	31		337	39	74	1.045	112	20.14	7910.2	8155.5
16-Oct-16 01:00:00	BSW dry no solids Gas SG=0.65 CO2 3% H2S 4ppm.											
16-Oct-16 01:00:00	Pumped 60.25 bbls to pond.											
16-Oct-16 01:00:00	28	82	31		339	39	74	1.071	98	20.15	7911.3	8156.7
16-Oct-16 01:15:00	28	82	31		332	39	72	1.021	115	20.16	7912.4	8157.9
16-Oct-16 01:30:00	28	80	31		339	39	71	1.061	95	20.17	7913.5	8159.2
16-Oct-16 01:45:00	28	82	31		333	39	72	0.980	140	20.18	7914.6	8160.5
16-Oct-16 02:00:00	BSW dry, no solids.											
16-Oct-16 02:00:00	28	82	31		337	39	70	1.020	109	20.19	7915.7	8161.7
16-Oct-16 02:15:00	28	80	31		337	39	73	1.049	120	20.20	7916.6	8163.0
16-Oct-16 02:30:00	28	83	31		337	39	71	1.011	118	20.22	7917.8	8164.3
16-Oct-16 02:45:00	28	81	31		331	39	70	1.136	54	20.23	7918.8	8165.5
16-Oct-16 03:00:00	BSW dry no solids Gas SG=0.648 CO2 3% H2S 4ppm.											
16-Oct-16 03:00:00	28	82	30		342	39	72	1.024	128	20.24	7919.8	8166.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
16-Oct-16 03:15:00	28	82	30		333	39	71	1.041	101	20.25	7921.0	8168.0
16-Oct-16 03:30:00	28	83	30		339	39	72	1.068	100	20.26	7922.2	8169.3
16-Oct-16 03:45:00	28	81	30		338	39	71	1.056	83	20.27	7923.1	8170.6
16-Oct-16 04:00:00	Electrical Conductivity=47.7mS, Water Density=1019.1kg/m3 @17.4degC, Dissolved Oxygen=1.2%S, Oxidation Reduction Potential=-179.5mV2. Salinity=33000 ppm.											
16-Oct-16 04:00:00	BSW=100% with traces of solids.											
16-Oct-16 04:00:00	28	82	30		339	39	72	1.059	108	20.28	7924.3	8171.8
16-Oct-16 04:15:00	28	81	30		336	39	73	1.028	105	20.29	7925.2	8173.2
16-Oct-16 04:30:00	28	82	30		339	39	71	1.063	107	20.30	7926.2	8174.6
16-Oct-16 04:45:00	28	82	30		335	39	73	1.055	96	20.31	7927.2	8176.0
16-Oct-16 05:00:00	BSW dry no solids Gas SG=0.65.											
16-Oct-16 05:00:00	28	82	30		336	39	73	1.004	137	20.33	7928.4	8177.4
16-Oct-16 05:15:00	28	81	30		341	39	74	1.048	108	20.34	7929.5	8178.7
16-Oct-16 05:30:00	28	83	30		339	39	72	0.961	142	20.35	7930.5	8180.1
16-Oct-16 05:45:00	28	71	30		286	39	60	0.871	89	20.36	7931.6	8181.5
16-Oct-16 06:00:00	28	100	32									8182.9
16-Oct-16 06:15:00	28	95	31		344	40	75	1.249	44	20.38	7934.4	8184.3
16-Oct-16 06:30:00	28	86	31		341	39	73	1.056	101	20.39	7935.4	8185.6
16-Oct-16 06:45:00	28	87	31		336	38	72	1.129	68	20.40	7936.4	8187.0
16-Oct-16 07:00:00	BSW dry, no solids.											
16-Oct-16 07:00:00	28	85	30		330	38	70	0.993	103	20.41	7937.4	8188.4
16-Oct-16 07:15:00	28	85	31		336	39	76	1.009	123	20.42	7938.4	8189.5
16-Oct-16 07:30:00	28	84	31		328	39	71	0.972	127	20.43	7939.6	8190.7
16-Oct-16 07:45:00	28	85	32		330	40	70	1.059	103	20.44	7940.6	8191.9
16-Oct-16 08:00:00	BSW dry, no solids, Gas SG 0.65.											
16-Oct-16 08:00:00	28	85	32		334	40	74	1.049	94	20.45	7941.5	8193.0
16-Oct-16 08:15:00	28	84	33		330	41	72	0.991	130	20.47	7942.7	8194.4
16-Oct-16 08:30:00	28	83	33		335	41	72	1.106	69	20.48	7943.7	8195.8
16-Oct-16 08:45:00	28	83	34		336	42	73	1.075	84	20.49	7944.7	8197.1
16-Oct-16 09:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5%.											
16-Oct-16 09:00:00	28	84	34		337	42	76	1.017	128	20.50	7945.9	8198.5
16-Oct-16 09:15:00	28	86	35		330	42	70	0.939	139	20.51	7947.0	8199.8
16-Oct-16 09:30:00	28	85	35		332	43	72	1.065	83	20.52	7948.1	8201.1
16-Oct-16 09:45:00	28	84	35		335	43	71	0.948	143	20.53	7949.4	8202.3
16-Oct-16 10:00:00	BSW dry, no solids, Gas SG 0.648.											
16-Oct-16 10:00:00	28	84	36		334	43	74	0.946	160	20.54	7950.6	8203.6
16-Oct-16 10:15:00	28	85	36		333	44	73	1.103	74	20.55	7951.7	8204.8
16-Oct-16 10:30:00	28	84	37		330	44	74	0.980	123	20.56	7952.7	8206.1
16-Oct-16 10:45:00	28	84	37		333	44	72	0.950	139	20.57	7954.0	8207.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
16-Oct-16 11:00:00	BSW dry, no solids, gas SG 0.65.											
16-Oct-16 11:00:00	28	85	37		335	44	75	1.056	111	20.58	7955.1	8208.6
16-Oct-16 11:15:00	Lowered 1.500" Orifice Plate											
16-Oct-16 11:15:00	28	84	37		332	44	74	1.045	111	20.59	7956.3	8210.0
16-Oct-16 11:28:30	DART crashed, re-boot system											
16-Oct-16 11:29:56	System back online, reconnected interact											
16-Oct-16 11:30:00	28	85	37		332	44	76	1.164	64	20.60	7957.5	8211.4
16-Oct-16 11:35:00	Lifted 1.500" Orifice plate, separator too unstable for metering.											
16-Oct-16 11:36:00	Adjusted proportional band on separator to 15%, monitor to se if stabalizes separator											
16-Oct-16 11:45:00	28	93	38		332	45	75	1.006	124	20.62	7958.6	8212.8
16-Oct-16 12:00:00	Pumped 61.6 bbl from tank to pond.											
16-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.											
16-Oct-16 12:00:00	28	93	38		332	45	74	1.060	106	20.63	7959.8	8214.2
16-Oct-16 12:15:00	28	95	39		332	45	75	1.016	124	20.64	7961.0	8215.4
16-Oct-16 12:30:00	28	93	39		335	44	73	0.963	146	20.65	7962.1	8216.7
16-Oct-16 12:45:00	28	94	39		332	45	74	1.013	115	20.66	7963.2	8218.0
16-Oct-16 13:00:00	BSW dry, no solids, Gas SG 0.65.											
16-Oct-16 13:00:00	28	61	38		335	45	72	1.052	99	20.67	7964.3	8219.2
16-Oct-16 13:15:00	28	81	39		326	44	74	1.065	94	20.68	7965.4	8220.5
16-Oct-16 13:30:00	28	79	39		335	46	72	1.023	102	20.69	7966.5	8221.8
16-Oct-16 13:45:00	28	79	40		336	46	76	1.034	119	20.70	7967.6	8223.0
16-Oct-16 14:00:00	BSW dry, no solids.											
16-Oct-16 14:00:00	28	80	39		333	45	74	1.122	69	20.71	7968.8	8224.3
16-Oct-16 14:15:00	28	80	40		340	46	76	1.090	96	20.72	7969.8	8225.5
16-Oct-16 14:30:00	28	70	39		332	45	74	1.089	89	20.73	7971.1	8226.8
16-Oct-16 14:45:00	28	70	39		334	45	76	0.976	136	20.74	7972.3	8228.1
16-Oct-16 15:00:00	BSW dry, no solids, Gas SG = 0.65.											
16-Oct-16 15:00:00	28	70	39		328	45	73	1.008	115	20.76	7973.4	8229.3
16-Oct-16 15:15:00	28	69	39		338	44	75	1.126	66	20.77	7974.7	8230.8
16-Oct-16 15:30:00	28	70	38		332	44	74	0.986	142	20.78	7975.8	8232.3
16-Oct-16 15:45:00	28	71	39		336	44	74	1.109	81	20.79	7977.0	8233.8
16-Oct-16 16:00:00	Isotube sample #28 taken from Separator at Gas SG 0.650 Temp 37.9 degC Press 69.5 psia.											
16-Oct-16 16:00:00	BSW dry, no solids., H2S 5ppm, CO2 4%, Gas SG= 0.648.											
16-Oct-16 16:00:00	28	70	38		333	44	76	1.128	69	20.80	7978.2	8235.3
16-Oct-16 16:10:00	Lowered 1.750" orifice plate.											
16-Oct-16 16:15:00	28	70	38		331	43	72	1.094	76	20.81	7979.3	8236.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
16-Oct-16 16:23:00	DART crashed when starting metering period.											
16-Oct-16 16:25:00	MP on 28/64" Fixed Choke.											
16-Oct-16 16:25:00	DART back online, reconnected interact.											
16-Oct-16 16:30:00	28	70	37		334	44	73	1.014	121	20.82	7980.5	8237.8
16-Oct-16 16:45:00	28	71	37	0.926	331	43	76	1.073	100	20.83	7981.7	8239.1
16-Oct-16 17:00:00	BSW dry, no solids.											
16-Oct-16 17:00:00	28	70	37	0.920	332	43	80	1.129	89	20.84	7982.9	8240.4
16-Oct-16 17:15:00	28	70	37	0.919	338	43	78	1.097	110	20.85	7983.6	8241.7
16-Oct-16 17:30:00	28	71	37	0.922	333	43	73	1.023	120	20.86	7984.8	8243.0
16-Oct-16 17:45:00	28	71	37	0.913	335	42	74	1.029	119	20.87	7985.9	8244.3
16-Oct-16 18:00:00	BSW dry, no solids, H2S 5ppm, CO2 4% Gas SG=0.65.											
16-Oct-16 18:00:00	28	71	37	0.922	336	42	74	1.032	116	20.88	7987.1	8245.7
16-Oct-16 18:15:00	28	71	36	0.926	335	42	74	1.042	90	20.89	7988.3	8247.0
16-Oct-16 18:30:00	28	71	36	0.929	336	42	76	1.089	101	20.90	7989.5	8248.3
16-Oct-16 18:45:00	28	70	36	0.924	336	42	74	1.116	77	20.91	7990.7	8249.6
16-Oct-16 19:00:00	BSW dry, no solids, Gas SG=0.65.											
16-Oct-16 19:00:00	28	71	35	0.933	336	41	76	1.111	88	20.93	7991.8	8251.0
16-Oct-16 19:15:00	28	79	35	0.943	331	41	74	1.047	127	20.94	7992.9	8252.2
16-Oct-16 19:30:00	28	80	35	0.959	341	41	78	1.087	112	20.95	7994.0	8253.5
16-Oct-16 19:45:00	28	79	35	0.966	332	41	76	1.059	104	20.96	7995.0	8254.8
16-Oct-16 20:00:00	BSW dry, no solids.											
16-Oct-16 20:00:00	28	80	34	0.958	339	41	75	1.047	103	20.97	7996.2	8256.0
16-Oct-16 20:15:00	28	78	34	0.968	336	41	77	1.270	29	20.98	7997.3	8257.4
16-Oct-16 20:30:00	28	79	34	0.964	339	40	78	1.128	90	20.99	7998.3	8258.8
16-Oct-16 20:45:00	28	79	34	0.966	339	40	76	1.155	65	21.00	7999.3	8260.2
16-Oct-16 21:00:00	BSW dry, no solids, H2S 4.5ppm, CO2 4% Gas SG=0.644.											
16-Oct-16 21:00:00	28	79	33	0.963	343	40	75	0.942	166	21.02	8000.4	8261.5
16-Oct-16 21:15:00	28	79	33	0.978	335	40	76	1.082	105	21.03	8001.4	8262.8
16-Oct-16 21:30:00	28	79	33	0.975	336	40	73	1.071	101	21.04	8002.5	8264.1
16-Oct-16 21:45:00	28	79	33	0.972	338	40	76	1.058	117	21.05	8003.6	8265.3
16-Oct-16 22:00:00	BSW dry, no solids.											
16-Oct-16 22:00:00	28	79	33	0.978	336	40	76	1.062	100	21.06	8004.7	8266.6
16-Oct-16 22:15:00	28	80	33	0.974	342	40	74	1.071	105	21.07	8005.7	8268.0
16-Oct-16 22:30:00	28	79	33	0.981	338	40	77	1.060	125	21.08	8006.8	8269.4
16-Oct-16 22:45:00	28	79	33	0.980	341	40	73	1.048	111	21.09	8007.8	8270.7
16-Oct-16 23:00:00	BSW dry, no solids, Gas SG=0.65.											
16-Oct-16 23:00:00	28	78	33	0.979	339	40	73	1.031	92	21.11	8008.9	8272.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
16-Oct-16 23:15:00	28	79	33	0.972	338	40	75	1.036	129	21.12	8010.1	8273.4
16-Oct-16 23:30:00	28	79	33	0.967	342	40	74	1.126	69	21.13	8011.1	8274.7
16-Oct-16 23:45:00	28	72	33	0.962	303	40	67	0.902	115	21.14	8012.0	8275.9
16-Oct-16 23:46:00	WHP dropping, well starting to slug											
16-Oct-16 23:48:00	Lifted 1.750" Orifice Plate due to slugging.											
16-Oct-16 23:48:00	End of MP.											
17-Oct-16 00:00:00	Pumped 56.58 bbls from tank to the pond.											
17-Oct-16 00:00:00	Sample from slug: Electrical Conductivity=53.0mS, Water Density=1013.6kg/m3 @28.4degC, Dissolved Oxygen=1.3%S, Oxidation Reduction Potential=-127.5mV2. Salinity=37000 ppm.											
17-Oct-16 00:00:00	Took gas sample H2S 5ppm, CO2 3%.											
17-Oct-16 00:00:00	28	99	34									8277.2
17-Oct-16 00:15:00	28	94	33		322	41	71	1.090	69	21.16	8014.3	8278.5
17-Oct-16 00:30:00	28	91	33		345	40	76	1.062	119	21.17	8015.5	8279.9
17-Oct-16 00:45:00	28	89	33		330	40	74	1.081	107	21.18	8016.6	8281.2
17-Oct-16 01:00:00	BSW dry, no solids, Gas SG=0.646.											
17-Oct-16 01:00:00	28	91	33		338	40	73	1.064	87	21.19	8017.7	8282.6
17-Oct-16 01:15:00	28	89	32		333	39	73	0.991	115	21.20	8018.7	8283.8
17-Oct-16 01:30:00	28	91	32		334	40	74	1.119	81	21.21	8019.8	8285.1
17-Oct-16 01:45:00	28	90	32		337	39	74	1.081	97	21.23	8020.9	8286.4
17-Oct-16 02:00:00	BSW dry, no solids.											
17-Oct-16 02:00:00	28	89	32		331	39	76	1.015	115	21.24	8021.9	8287.6
17-Oct-16 02:15:00	28	90	32		341	39	75	1.039	130	21.25	8023.1	8288.9
17-Oct-16 02:30:00	28	90	32		336	39	73	0.982	133	21.26	8024.0	8290.2
17-Oct-16 02:45:00	28	90	32		332	39	72	1.114	74	21.27	8025.1	8291.4
17-Oct-16 03:00:00	BSW dry, no solids, Gas SG=0.65 H2S 4ppm, CO2 4%.											
17-Oct-16 03:00:00	28	89	32		337	39	74	1.104	84	21.28	8026.1	8292.7
17-Oct-16 03:15:00	28	90	32		336	39	75	1.080	109	21.29	8027.2	8294.0
17-Oct-16 03:30:00	28	90	32		333	39	73	1.205	43	21.30	8028.1	8295.2
17-Oct-16 03:45:00	28	90	32		334	39	75	1.128	77	21.31	8029.2	8296.5
17-Oct-16 04:00:00	BSW dry, no solids.											
17-Oct-16 04:00:00	28	90	31		334	39	73	0.977	139	21.33	8030.2	8297.8
17-Oct-16 04:15:00	28	89	31		335	39	73	1.185	50	21.34	8031.2	8298.9
17-Oct-16 04:30:00	28	89	31		339	38	75	0.987	144	21.35	8032.2	8300.1
17-Oct-16 04:45:00	28	90	31		334	38	73	0.967	146	21.36	8033.3	8301.2
17-Oct-16 04:46:00	Lowered 1.750" Orifice Plate.											
17-Oct-16 05:00:00	28	89	31		335	38	73	1.110	89	21.37	8034.3	8302.4
17-Oct-16 05:15:00	28	91	31		335	38	73	0.999	130	21.38	8035.3	8303.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
17-Oct-16 05:30:00	28	90	31		333	38	72	0.990	130	21.39	8036.4	8304.7
17-Oct-16 05:34:00	Well slugging, lifted 1.750" orifice plate.											
17-Oct-16 05:35:00	Carrier plate jammed inside canalta chamber.											
17-Oct-16 05:45:00	28	97	32		376	39	81	1.044	168	21.40	8037.8	8305.8
17-Oct-16 05:55:00	Bypass separator and bleed off pressure, flare watch in place.											
17-Oct-16 06:00:00	Drained water from condensate trap on flare stack.											
17-Oct-16 06:00:00	28	32	31		363	39	80	1.205	95	21.42	8039.0	8307.0
17-Oct-16 06:05:00	Opened canalta to check orifice plate.											
17-Oct-16 06:15:00	28	13	30									8308.1
17-Oct-16 06:19:00	Orifice plate carrier out and carrying out inspection of teeth.											
17-Oct-16 06:24:00	Putting separator back online and closing bypass.											
17-Oct-16 06:30:00	28	95	31		341	39	77	1.118	104	21.44	8040.7	8309.3
17-Oct-16 06:45:00	28	94	31		335	39	71	1.100	75	21.45	8041.7	8310.6
17-Oct-16 07:00:00	28	96	31		329	39	70	1.118	66	21.46	8042.8	8311.9
17-Oct-16 07:15:00	28	93	32		336	40	72	1.134	73	21.47	8043.7	8313.2
17-Oct-16 07:16:00	WHP dropping, well slugging.											
17-Oct-16 07:16:00	Captured sample of slug, BSW 100% no solids.											
17-Oct-16 07:30:00	Sample from slug: Electrical Conductivity=52.7mS@24.4dec, Water Density=1013.6kg/m3 @27.3degC, Dissolved Oxygen=1.1%S, Oxidation Reduction Potential=-135.0mV2. Salinity=31000 ppm.											
17-Oct-16 07:30:00	28	77	32		354	40	79	0.904	210	21.48	8045.0	8314.5
17-Oct-16 07:45:00	28	99	33		362	41	78	1.195	97	21.49	8046.2	8315.8
17-Oct-16 08:00:00	28	86	33		334	41	73	0.946	144	21.50	8047.1	8317.1
17-Oct-16 08:15:00	28	91	34		341	41	74	1.016	118	21.51	8048.1	8318.2
17-Oct-16 08:30:00	WHP started to drop, well slugging.											
17-Oct-16 08:30:00	28	88	34		333	42	72	0.983	129	21.53	8049.3	8319.4
17-Oct-16 08:45:00	28	93	35		375	42	80	0.976	204	21.53	8050.6	8320.5
17-Oct-16 09:00:00	BSW dry, no solids, H2S 5ppm, C02 4%, Gas SG 0.648.											
17-Oct-16 09:00:00	28	102	35		366	42	80	1.297	43	21.55	8051.9	8321.7
17-Oct-16 09:13:53	DART crashed, rebooted system.											
17-Oct-16 09:15:00	28	86	35		335	43	74	1.071	96	21.56	8052.7	8322.9
17-Oct-16 09:15:29	DART back online, reconnected interact.											
17-Oct-16 09:30:00	28	93	36		342	43	76	1.090	100	21.57	8053.9	8324.2
17-Oct-16 09:40:00	Took ALS water sample from separator, sample EC 53.3mS@32.6degC, pH7, water cumulative = 8849 bbls.											
17-Oct-16 09:45:00	28	89	35		328	42	71	0.956	140	21.58	8054.8	8325.5
17-Oct-16 10:00:00	BSW dry, no solids.											
17-Oct-16 10:00:00	28	89	36		334	43	73	1.005	126	21.59	8055.9	8326.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
17-Oct-16 10:15:00	28	91	36		331	43	72	1.012	108	21.60	8057.0	8328.0
17-Oct-16 10:30:00	28	91	37		329	44	74	1.100	75	21.61	8058.0	8329.3
17-Oct-16 10:45:00	28	91	37		324	44	72	1.076	85	21.62	8059.2	8330.5
17-Oct-16 11:00:00	BSW dry, no soilds, Gas SG= 0.648.											
17-Oct-16 11:00:00	28	89	38		335	45	75	1.005	122	21.63	8060.4	8331.8
17-Oct-16 11:15:00	Pumped 60.5 bbls from tank to pond.											
17-Oct-16 11:15:00	28	91	38		326	44	74	1.137	49	21.65	8061.5	8333.1
17-Oct-16 11:30:00	28	89	38		333	45	78	1.047	115	21.66	8062.5	8334.5
17-Oct-16 11:45:00	28	91	38		330	44	75	1.045	93	21.67	8063.4	8335.8
17-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%. SG= 0.648.											
17-Oct-16 12:00:00	28	90	38		329	43	72	1.087	77	21.68	8064.5	8337.2
17-Oct-16 12:15:00	28	89	37		335	43	75	0.936	160	21.69	8065.6	8338.5
17-Oct-16 12:30:00	28	90	37		335	43	75	1.042	116	21.70	8066.7	8339.7
17-Oct-16 12:45:00	28	91	38		332	44	76	1.008	133	21.71	8067.8	8341.0
17-Oct-16 13:00:00	BSW dry, no solids.											
17-Oct-16 13:00:00	28	90	38		337	43	74	1.086	86	21.72	8068.9	8342.3
17-Oct-16 13:15:00	28	91	38		329	45	74	1.006	128	21.73	8070.0	8343.5
17-Oct-16 13:22:00	MP on 28/64" Fixed Choke.											
17-Oct-16 13:22:00	Lowered 1.75" Orifice Plate.											
17-Oct-16 13:30:00	28	94	39		331	45	74	0.948	151	21.74	8071.1	8344.8
17-Oct-16 13:45:00	28	93	39	0.991	336	44	73	1.009	125	21.75	8072.2	8346.0
17-Oct-16 14:00:00	BSW dry, no solids, Gas SG= 0.648.											
17-Oct-16 14:00:00	28	95	39	0.991	335	46	72	1.139	76	21.77	8073.2	8347.3
17-Oct-16 14:01:00	Carry over check at barton scrubber.											
17-Oct-16 14:13:09	Computer crashed, disconnected and rebooted.											
17-Oct-16 14:15:00	28	95	39	1.000	332	45	74	1.057	110	21.78	8074.5	8348.6
17-Oct-16 14:18:58	Reconnected to Interact.											
17-Oct-16 14:30:00	28	95	39	0.993	332	43	73	1.080	87	21.79	8075.5	8349.8
17-Oct-16 14:45:00	28	94	38	0.999	334	42	72	1.098	87	21.80	8076.7	8351.1
17-Oct-16 15:00:00	BSW dry, no solids											
17-Oct-16 15:00:00	28	95	37	0.997	332	42	73	1.014	122	21.81	8077.9	8352.4
17-Oct-16 15:15:00	28	93	37	0.995	336	42	77	1.033	138	21.82	8079.1	8353.6
17-Oct-16 15:30:00	28	93	36	1.002	333	42	73	1.090	74	21.83	8080.2	8354.9
17-Oct-16 15:45:00	28	93	36	0.993	340	42	74	1.043	120	21.84	8081.3	8356.2
17-Oct-16 16:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5% Gas SG0.648.											
17-Oct-16 16:00:00	28	94	36	0.999	338	43	75	1.102	101	21.85	8082.4	8357.4
17-Oct-16 16:01:00	Took Isotube sample #28 from Separator at 94psia 36.7degC.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
17-Oct-16 16:15:00	28	94	37	1.001	332	43	75	1.126	72	21.86	8083.5	8358.7
17-Oct-16 16:30:00	28	94	37	0.996	337	43	74	0.955	154	21.87	8084.6	8360.0
17-Oct-16 16:45:00	28	93	37	1.000	336	43	74	1.002	131	21.89	8085.8	8361.2
17-Oct-16 17:00:00	28	94	37	0.996	332	43	73	1.166	60	21.90	8087.0	8362.5
17-Oct-16 17:15:00	28	95	37	0.994	336	43	74	1.015	120	21.91	8088.2	8363.9
17-Oct-16 17:30:00	28	94	37	0.995	337	42	75	1.050	107	21.92	8089.3	8365.3
17-Oct-16 17:41:00	Dart crashed lost connection to Interact.											
17-Oct-16 17:45:00	DART back online, reconnected to interact.											
17-Oct-16 17:45:00	28	94	36	1.004	335	41	75	1.039	93	21.93	8090.3	8366.6
17-Oct-16 18:00:00	BSW dry, no solids CO2 3.5% H2S 5ppm Gass SG=0.646.											
17-Oct-16 18:00:00	28	94	36	0.998	338	41	75	1.082	90	21.94	8091.3	8368.0
17-Oct-16 18:15:00	28	92	35	1.005	335	41	73	1.007	115	21.95	8092.3	8369.2
17-Oct-16 18:30:00	28	95	35	0.999	341	40	75	1.008	148	21.96	8093.4	8370.3
17-Oct-16 18:45:00	28	95	34	1.008	335	40	73	1.058	100	21.97	8094.6	8371.5
17-Oct-16 19:00:00	BSW dry, no solids.											
17-Oct-16 19:00:00	28	94	34	1.003	332	39	72	1.061	89	21.98	8095.6	8372.6
17-Oct-16 19:15:00	28	93	33	1.003	339	39	76	1.020	129	21.99	8096.6	8373.9
17-Oct-16 19:28:00	Dart crashed lost connection to Interact.											
17-Oct-16 19:30:00	28	94	33	1.007	339	39	73	1.098	86	22.01	8097.7	8375.1
17-Oct-16 19:31:00	DART back online, reconnected interact.											
17-Oct-16 19:45:00	28	94	33	1.010	339	39	75	0.982	144	22.02	8098.8	8376.4
17-Oct-16 20:00:00	BSW dry, no solids Gas SG=0.646.											
17-Oct-16 20:00:00	28	94	33	1.004	334	39	73	1.034	125	22.03	8100.1	8377.7
17-Oct-16 20:15:00	28	94	33	1.012	338	39	75	1.067	101	22.04	8101.1	8378.9
17-Oct-16 20:30:00	28	95	32	1.009	333	39	76	1.124	83	22.05	8102.1	8380.2
17-Oct-16 20:45:00	28	92	32	1.010	337	39	76	0.951	172	22.06	8103.5	8381.5
17-Oct-16 21:00:00	BSW dry, no solids CO2 3% H2S 4.5ppm.											
17-Oct-16 21:00:00	28	94	32	1.011	334	39	75	1.043	95	22.07	8104.3	8382.7
17-Oct-16 21:15:00	28	94	32	1.003	337	39	75	1.057	106	22.08	8105.4	8383.9
17-Oct-16 21:30:00	28	95	32	1.009	335	39	74	1.147	56	22.10	8106.3	8385.0
17-Oct-16 21:42:00	Interact no longer updating data, stopped and restarted OPC causing DART to crash.											
17-Oct-16 21:44:00	DART back online, Interact transmitting data again.											
17-Oct-16 21:45:00	28	94	32	1.010	334	39	72	0.972	143	22.11	8107.4	8386.2
17-Oct-16 22:00:00	BSW dry, no solids.											
17-Oct-16 22:00:00	28	96	32	1.009	333	39	73	1.103	79	22.12	8108.6	8387.3
17-Oct-16 22:15:00	28	95	32	1.009	334	39	73	1.029	122	22.13	8109.6	8388.7
17-Oct-16 22:30:00	28	96	32	1.010	332	39	72	1.127	66	22.14	8110.7	8390.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
17-Oct-16 22:45:00	28	95	32	1.009	332	39	72	1.008	121	22.15	8111.8	8391.5
17-Oct-16 23:00:00	BSW dry, no solids Gas SG=0.648.											
17-Oct-16 23:00:00	28	95	32	1.015	332	40	72	1.080	86	22.16	8112.7	8392.9
17-Oct-16 23:15:00	28	92	32	1.010	335	40	71	1.068	80	22.17	8113.7	8394.0
17-Oct-16 23:30:00	28	96	32	1.029	335	40	78	1.125	82	22.18	8114.8	8395.2
17-Oct-16 23:45:00	28	95	32	1.023	335	39	74	1.211	40	22.20	8115.8	8396.3
18-Oct-16 00:00:00	BSW dry, no solids CO2 2.5% H2S 4ppm.											
18-Oct-16 00:00:00	Pumped 61.18 bbls to the pond.											
18-Oct-16 00:00:00	28	96	32	1.030								8397.5
18-Oct-16 00:15:00	28	94	32	1.039	333	40	72	1.038	110	22.22	8117.6	8398.7
18-Oct-16 00:30:00	28	96	32	1.033	330	40	75	1.085	92	22.23	8118.5	8399.9
18-Oct-16 00:45:00	28	95	32	1.025	336	40	74	1.152	63	22.24	8119.5	8401.2
18-Oct-16 01:00:00	BSW dry, no solids Gas SG=0.646.											
18-Oct-16 01:00:00	28	94	32	1.027	335	40	73	1.031	114	22.25	8120.6	8402.4
18-Oct-16 01:15:00	28	95	33	1.025	336	40	72	0.969	156	22.26	8121.8	8403.7
18-Oct-16 01:30:00	28	95	32	1.023	336	40	73	1.152	65	22.27	8123.0	8405.0
18-Oct-16 01:45:00	28	95	32	1.035	331	40	72	0.972	144	22.28	8124.1	8406.2
18-Oct-16 02:00:00	BSW dry, no solids.											
18-Oct-16 02:00:00	28	95	32	1.019	335	39	73	1.045	114	22.29	8125.2	8407.5
18-Oct-16 02:15:00	28	95	32	1.049	328	39	75	1.076	80	22.30	8126.1	8409.1
18-Oct-16 02:30:00	28	94	32	1.023	335	40	75	1.037	122	22.31	8127.1	8410.7
18-Oct-16 02:45:00	28	95	32	1.059	329	39	74	1.085	93	22.33	8128.0	8412.3
18-Oct-16 03:00:00	BSW dry, no solids Gas SG=0.65 CO2 2.5% H2S 3.5ppm.											
18-Oct-16 03:00:00	28	95	32	1.037	341	39	74	1.115	105	22.34	8129.1	8413.9
18-Oct-16 03:15:00	28	95	32	1.063	331	39	71	1.091	79	22.35	8130.1	8415.1
18-Oct-16 03:30:00	28	92	32	1.057	337	39	75	0.995	125	22.36	8131.1	8416.2
18-Oct-16 03:45:00	28	94	32	1.033	337	39	73	1.035	117	22.37	8132.1	8417.4
18-Oct-16 04:00:00	BSW dry, no solids.											
18-Oct-16 04:00:00	28	95	32	1.028	336	39	74	1.129	84	22.38	8133.3	8418.5
18-Oct-16 04:15:00	28	94	32	1.042	335	39	72	1.024	95	22.39	8134.2	8419.7
18-Oct-16 04:30:00	28	96	32	1.027	337	39	73	0.956	149	22.40	8135.2	8420.8
18-Oct-16 04:45:00	28	96	32	1.045	331	39	71	1.094	70	22.41	8136.1	8422.0
18-Oct-16 05:00:00	BSW dry, no solids Gas SG=0.648.											
18-Oct-16 05:00:00	28	96	32	1.047	331	39	72	1.020	104	22.43	8137.2	8423.1
18-Oct-16 05:15:00	28	95	32	1.041	334	39	71	1.047	101	22.44	8138.1	8424.2
18-Oct-16 05:30:00	28	94	32	1.012	342	39	74	1.150	74	22.45	8139.1	8425.2
18-Oct-16 05:45:00	Investigating possible causes of gas rate fluctuation.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
18-Oct-16 05:45:00	28	96	32	1.040	339	39	72	1.000	114	22.46	8140.2	8426.2
18-Oct-16 06:00:00	28	95	32	1.033	331	39	71	1.099	72	22.47	8141.3	8427.3
18-Oct-16 06:13:00	End of MP.											
18-Oct-16 06:15:00	28	93	32		331	39	73	1.103	81	22.48	8142.3	8428.5
18-Oct-16 06:18:00	Bypassed and bled off separator to check the orifice plate and chamber.											
18-Oct-16 06:25:00	Separator pressure fully bled off.											
18-Oct-16 06:30:00	28	13	30		335	39	73	1.078	71	22.49	8143.3	8429.8
18-Oct-16 06:36:00	Putting separator back online, closing bypass.											
18-Oct-16 06:40:00	Separator back online.											
18-Oct-16 06:45:00	28	99	31		331	39	73	1.007	127	22.50	8144.4	8431.1
18-Oct-16 06:53:00	Checking line up to put sand filter online.											
18-Oct-16 06:55:00	Sand filter online.											
18-Oct-16 06:55:00	Preparing to open new DART file and reconnect to InterAct.											
18-Oct-16 06:55:00	Pass flow through sand filter.											
18-Oct-16 07:00:00	BSW dry, trace of solids.											
18-Oct-16 07:00:00	28	101	31		334	39	75	1.035	109	22.51	8145.3	8432.3
18-Oct-16 07:15:00	28	97	29		328	39	68	1.067	91	22.52	8146.3	8433.6
18-Oct-16 07:30:00	28	98	30		332	39	71	1.117	74	22.53	8147.5	8434.9
18-Oct-16 07:41:39	New DART file online, streaming data to InterAct.											
18-Oct-16 07:45:00	28	96	30		329	39	79	1.153	75	22.54	8148.5	8436.1
18-Oct-16 08:00:00	BSW dry, trace of solids.											
18-Oct-16 08:00:00	28	98	31		331	39	74	1.188	44	22.56	8149.6	8437.4
18-Oct-16 08:15:00	28	97	31		331	39	74	1.145	67	22.57	8150.5	8438.3
18-Oct-16 08:30:00	28	97	32		330	39	68	1.067	80	22.58	8151.6	8439.2
18-Oct-16 08:45:00	28	97	32		334	41	75	1.120	80	22.59	8152.5	8440.1
18-Oct-16 09:00:00	BSW=100% no solids, H2S 5ppm, CO2 4%.											
18-Oct-16 09:00:00	28	97	33		331	41	70	1.055	91	22.60	8153.5	8441.1
18-Oct-16 09:15:00	28	97	33		334	42	70	0.998	130	22.61	8154.5	8442.4
18-Oct-16 09:30:00	28	97	34		332	43	71	1.060	111	22.62	8155.6	8443.8
18-Oct-16 09:45:00	28	97	34		335	43	75	1.042	101	22.63	8156.6	8445.2
18-Oct-16 09:52:00	InterACT back online.											
18-Oct-16 10:00:00	BSW dry, no solids.											
18-Oct-16 10:00:00	28	99	35		331	43	71	1.024	110	22.64	8157.6	8446.6
18-Oct-16 10:15:00	28	98	35		329	44	72	1.061	78	22.65	8158.6	8447.7
18-Oct-16 10:30:00	28	94	36		317	44	67	0.940	116	22.67	8159.5	8448.9
18-Oct-16 10:45:00	28	97	37		350	44	76	1.120	92	22.68	8160.6	8450.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
18-Oct-16 11:00:00	BSW dry, no solids.											
18-Oct-16 11:00:00	28	91	37		325	45	70	1.083	79	22.69	8161.7	8451.2
18-Oct-16 11:15:00	Pumped 56.81 bbls from tank to pond.											
18-Oct-16 11:15:00	28	94	37		332	45	76	1.167	62	22.70	8162.7	8452.4
18-Oct-16 11:30:00	28	93	37		331	45	74	1.003	124	22.71	8163.7	8453.7
18-Oct-16 11:45:00	28	93	38		332	45	72	1.051	78	22.72	8164.5	8455.0
18-Oct-16 12:00:00	BSW dry, no solids, Gas SG 0.648.											
18-Oct-16 12:00:00	28	93	38		330	45	75	1.044	91	22.73	8165.5	8456.2
18-Oct-16 12:15:00	28	93	38		328	46	73	1.023	115	22.74	8166.7	8457.5
18-Oct-16 12:30:00	28	92	38		338	44	74	1.177	60	22.75	8167.7	8458.8
18-Oct-16 12:45:00	28	92	38		332	44	72	1.004	108	22.76	8168.7	8460.0
18-Oct-16 13:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.											
18-Oct-16 13:00:00	28	93	38		333	44	72	1.014	112	22.77	8169.8	8461.3
18-Oct-16 13:15:00	28	94	38		332	44	73	1.103	61	22.79	8170.9	8462.6
18-Oct-16 13:20:00	Lowered 1.75" Orifice Plate											
18-Oct-16 13:21:00	MP on 28/64" Fixed Choke.											
18-Oct-16 13:30:00	28	93	38	0.981	328	45	73	1.007	104	22.80	8171.9	8463.8
18-Oct-16 13:45:00	28	92	38	0.988	332	44	73	1.034	98	22.81	8172.8	8465.1
18-Oct-16 14:00:00	BSW dry, no solids, Gas SG= 0.648.											
18-Oct-16 14:00:00	28	92	38	0.981	338	44	72	1.105	78	22.82	8173.7	8466.4
18-Oct-16 14:07:00	WHP started decreasing, well slugging.											
18-Oct-16 14:09:00	Lifted up orifice plate from separator during slugging.											
18-Oct-16 14:09:00	End of MP.											
18-Oct-16 14:15:00	28	59	37		299	43	71	0.665	301	22.83	8174.8	8467.6
18-Oct-16 14:16:00	Slug on surface, capture sample, BSW 100%											
18-Oct-16 14:16:00	Slug Results=Electrical Conductivity=63.78mS@33.7DegC,Water Density=1015.3kg/m3@27.1DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-180.9mV2, Salinity=23100ppm.											
18-Oct-16 14:30:00	28	98	38		398	43	87	1.256	107	22.84	8176.4	8468.9
18-Oct-16 14:45:00	28	88	37		312	43	69	1.118	37	22.85	8177.2	8470.2
18-Oct-16 15:00:00	BSW=100%,											
18-Oct-16 15:00:00	28	86	37		348	43	76	1.128	95	22.86	8178.2	8471.4
18-Oct-16 15:15:00	28	85	36		327	42	69	1.005	109	22.87	8179.1	8472.7
18-Oct-16 15:30:00	28	84	36		337	42	73	0.953	161	22.89	8180.1	8473.9
18-Oct-16 15:45:00	28	84	36		336	42	71	1.081	98	22.90	8181.1	8475.2
18-Oct-16 16:00:00	BSW=100% trace of solids, H2S 5ppm, CO2 4%.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
18-Oct-16 16:00:00	Slug Results=Electrical Conductivity=55.5mS@25.8DegC,Water Density=1015.3kg/m3@27.3DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-177.5mV2, Salinity=37000ppm.											
18-Oct-16 16:00:00	28	83	36		335	42	73	1.059	106	22.91	8182.0	8476.5
18-Oct-16 16:01:00	Took Isotube sample from separator at press 82.9psia, temp 35.6degC, Gas SG 0.648.											
18-Oct-16 16:15:00	28	83	36		332	42	71	0.956	144	22.92	8183.2	8477.7
18-Oct-16 16:30:00	28	84	36		336	42	72	1.060	88	22.93	8184.3	8478.9
18-Oct-16 16:45:00	28	82	35		333	42	71	0.955	124	22.94	8185.2	8480.1
18-Oct-16 17:00:00	BSW dry, no solids.											
18-Oct-16 17:00:00	28	83	35		333	42	74	0.992	137	22.95	8186.4	8481.3
18-Oct-16 17:15:00	28	83	35		333	42	70	1.131	49	22.96	8187.3	8482.4
18-Oct-16 17:30:00	28	83	35		334	42	70	1.087	88	22.97	8188.3	8483.6
18-Oct-16 17:34:00	Lowered 1.75" Orifice Plate, gas SG=0.648.											
18-Oct-16 17:35:00	MP on 28/64" Fixed Choke.											
18-Oct-16 17:45:00	28	82	35	0.959	337	41	72	1.056	94	22.98	8189.3	8484.7
18-Oct-16 18:00:00	BSW dry, no solids, H2S 5ppm, CO2 4%.											
18-Oct-16 18:00:00	28	82	34	0.968	340	40	72	1.019	128	23.00	8190.4	8485.9
18-Oct-16 18:15:00	28	84	34	0.971	333	40	74	1.021	121	23.00	8191.2	8486.9
18-Oct-16 18:30:00	28	83	33	0.968	334	40	73	1.062	102	23.02	8192.3	8488.0
18-Oct-16 18:45:00	28	82	33	0.969	334	40	77	1.171	73	23.03	8193.4	8489.0
18-Oct-16 19:00:00	BSW dry, no solids.											
18-Oct-16 19:00:00	28	83	33	0.971	332	40	73	1.069	96	23.04	8194.5	8490.0
18-Oct-16 19:15:00	28	84	33	0.970	335	40	78	1.206	53	23.05	8195.4	8491.3
18-Oct-16 19:30:00	28	84	33	0.976	335	40	72	0.999	115	23.06	8196.4	8492.5
18-Oct-16 19:45:00	28	82	33	0.970	334	40	72	1.100	86	23.07	8197.5	8493.8
18-Oct-16 20:00:00	Electrical Conductivity=52.1mS@23.2DegC,Water Density=1015.7kg/m3@25.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-198.6mV2, Salinity=37000											
18-Oct-16 20:00:00	BSW=100% no solids.											
18-Oct-16 20:00:00	28	82	33	0.969	340	40	75	1.076	104	23.08	8198.5	8495.1
18-Oct-16 20:15:00	28	82	33	0.972	336	40	73	1.046	115	23.09	8199.6	8496.3
18-Oct-16 20:30:00	28	83	32	0.975	336	40	73	1.114	75	23.10	8200.8	8497.6
18-Oct-16 20:45:00	28	83	32	0.974	335	40	72	0.984	130	23.11	8201.8	8498.9
18-Oct-16 21:00:00	BSW dry, no solids, H2S 6ppm, CO2 3%.											
18-Oct-16 21:00:00	28	84	32	0.973	338	40	72	1.094	87	23.13	8202.9	8500.1
18-Oct-16 21:15:00	28	82	32	0.975	339	39	72	1.003	121	23.14	8203.9	8501.4
18-Oct-16 21:30:00	GasDP has started fluctuating affecting GasQA, this is a recurring event as shown from the night of the 17th October where the same effects occured.											
18-Oct-16 21:30:00	28	83	32	0.979	337	39	75	1.055	123	23.15	8205.0	8502.7
18-Oct-16 21:45:00	28	82	31	0.976	334	39	74	1.108	94	23.16	8205.9	8503.9
18-Oct-16 22:00:00	BSW dry, no solids.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
18-Oct-16 22:00:00	28	82	31	0.976	338	39	72	1.016	113	23.17	8206.8	8505.2
18-Oct-16 22:15:00	28	83	31	0.977	336	39	70	1.015	115	23.18	8207.9	8506.5
18-Oct-16 22:30:00	28	85	32	0.977	339	40	71	1.007	113	23.19	8208.9	8507.7
18-Oct-16 22:45:00	28	85	32	0.982	337	40	70	1.099	82	23.20	8210.0	8509.0
18-Oct-16 23:00:00	Electrical Conductivity=52.1mS@23.2DegC,Water Density=1015.7kg/m3@25.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-198.6mV2, Salinity=37000											
18-Oct-16 23:00:00	BSW=100% no solids, Gas SG=0.648											
18-Oct-16 23:00:00	28	84	32	0.986	327	40	72	0.995	121	23.21	8211.0	8510.3
18-Oct-16 23:15:00	28	84	32	0.978	342	40	73	1.039	120	23.23	8212.0	8511.3
18-Oct-16 23:30:00	28	85	32	0.993	334	40	71	1.102	75	23.24	8212.9	8512.3
18-Oct-16 23:45:00	28	83	32	0.982	337	40	72	1.039	108	23.25	8213.8	8513.4
19-Oct-16 00:00:00	BSW=100% no solids, H2S 5.5ppm, CO2 4%											
19-Oct-16 00:00:00	28	83	32	0.995								8514.4
19-Oct-16 00:01:00	Pumped 66.7 bbls from tank to the pond.											
19-Oct-16 00:15:00	28	83	32	0.983	332	39	70	1.006	101	23.27	8215.6	8515.7
19-Oct-16 00:30:00	28	84	32	0.987	335	39	73	0.989	123	23.28	8216.6	8516.9
19-Oct-16 00:45:00	28	84	31	0.984	331	40	70	1.067	83	23.29	8217.4	8518.2
19-Oct-16 01:00:00	BSW dry, no solids, Gas SG=0.646.											
19-Oct-16 01:00:00	28	84	32	0.979	337	40	76	1.166	70	23.30	8218.3	8519.5
19-Oct-16 01:15:00	28	84	32	0.988	333	40	71	1.079	90	23.31	8219.3	8520.6
19-Oct-16 01:30:00	28	84	32	0.988	338	40	70	1.078	78	23.32	8220.3	8521.8
19-Oct-16 01:45:00	28	85	32	0.989	333	40	72	1.036	112	23.34	8221.2	8522.9
19-Oct-16 02:00:00	BSW dry, no solids.											
19-Oct-16 02:00:00	28	85	32	0.991	338	40	76	1.083	99	23.35	8222.2	8524.1
19-Oct-16 02:15:00	28	85	32	0.994	332	40	75	1.089	81	23.36	8223.1	8525.2
19-Oct-16 02:30:00	28	85	32	0.996	337	40	72	1.072	100	23.37	8224.1	8526.4
19-Oct-16 02:45:00	28	85	32	0.988	330	40	69	1.070	80	23.38	8225.2	8527.5
19-Oct-16 03:00:00	BSW dry, no solids, H2S 6ppm, CO2 4%, Gas SG=0.646.											
19-Oct-16 03:00:00	BSW dry, no solids.											
19-Oct-16 03:00:00	28	85	32	0.992	337	40	73	0.951	143	23.39	8226.3	8528.7
19-Oct-16 03:15:00	28	86	32	0.994	337	40	70	1.071	91	23.40	8227.3	8529.7
19-Oct-16 03:30:00	28	85	32	0.996	334	40	70	1.047	95	23.41	8228.3	8530.7
19-Oct-16 03:45:00	28	85	32	0.992	335	40	71	1.120	74	23.42	8229.3	8531.8
19-Oct-16 04:00:00	BSW=100%, no solids.											
19-Oct-16 04:00:00	28	84	32	0.986	341	40	72	1.021	115	23.43	8230.4	8532.8
19-Oct-16 04:15:00	28	84	32	0.997	334	39	75	1.038	117	23.45	8231.4	8534.1
19-Oct-16 04:30:00	28	85	31	0.992	340	39	74	1.057	94	23.46	8232.4	8535.3
19-Oct-16 04:45:00	28	84	31	0.999	339	39	70	1.068	92	23.47	8233.3	8536.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
19-Oct-16 05:00:00	BSW dry, no solids.											
19-Oct-16 05:00:00	28	84	31	1.005	338	39	70	1.008	121	23.48	8234.5	8537.9
19-Oct-16 05:15:00	28	85	31	0.997	338	39	73	1.054	102	23.49	8235.4	8539.1
19-Oct-16 05:30:00	28	85	31	1.001	336	39	71	1.104	81	23.50	8236.4	8540.4
19-Oct-16 05:40:00	Checked for carry over at barton scrubbers.											
19-Oct-16 05:45:00	28	85	31	1.002	340	39	70	1.013	125	23.51	8237.5	8541.7
19-Oct-16 06:00:00	28	85	31	0.998	334	39	70	0.992	117	23.52	8238.5	8542.9
19-Oct-16 06:15:00	28	85	31	0.988	337	39	70	1.072	86	23.53	8239.4	8544.0
19-Oct-16 06:30:00	28	85	31	0.996	334	39	73	1.056	114	23.54	8240.5	8545.0
19-Oct-16 06:45:00	Checked for carry over at barton scrubbers.											
19-Oct-16 06:45:00	28	86	31	0.994	333	40	70	1.071	93	23.55	8241.4	8546.0
19-Oct-16 07:00:00	BSW=100%, trace of solids.											
19-Oct-16 07:00:00	28	85	31	0.993	334	40	70	1.023	108	23.56	8242.4	8547.1
19-Oct-16 07:15:00	28	86	32	0.996	334	41	68	1.210	27	23.57	8243.4	8548.4
19-Oct-16 07:30:00	28	86	32	0.997	326	41	73	1.097	93	23.59	8244.4	8549.8
19-Oct-16 07:45:00	28	86	33	0.996	334	42	71	1.027	107	23.60	8245.4	8551.2
19-Oct-16 08:00:00	28	86	34	0.995	331	42	70	1.058	84	23.61	8246.5	8552.6
19-Oct-16 08:01:00	Took ALS water sample from separator.											
19-Oct-16 08:15:00	28	87	34	0.999	334	42	70	1.015	107	23.62	8247.4	8553.7
19-Oct-16 08:30:00	28	86	35	0.998	329	43	71	1.041	91	23.63	8248.3	8554.9
19-Oct-16 08:45:00	28	87	35	0.988	331	43	68	1.025	92	23.64	8249.3	8556.0
19-Oct-16 09:00:00	Gas SG=0.646.											
19-Oct-16 09:00:00	28	86	35	1.004	332	43	78	1.141	82	23.65	8250.2	8557.2
19-Oct-16 09:10:00	Checked for carry over at barton scrubbers.											
19-Oct-16 09:15:00	28	85	36	1.005	334	44	70	0.905	166	23.66	8251.4	8558.3
19-Oct-16 09:30:00	28	86	36	0.983	339	44	73	1.070	101	23.67	8252.3	8559.5
19-Oct-16 09:45:00	28	87	37	0.988	333	44	70	1.032	104	23.68	8253.4	8560.6
19-Oct-16 10:00:00	28	87	37	0.987	328	44	71	0.963	125	23.69	8254.6	8561.8
19-Oct-16 10:10:18	Checked for carry over at barton scrubbers.											
19-Oct-16 10:15:00	28	86	37	0.989	330	45	69	0.879	175	23.70	8255.9	8562.8
19-Oct-16 10:30:00	28	87	38	0.982	331	45	68	1.091	50	23.71	8256.9	8563.9
19-Oct-16 10:45:00	28	87	38	0.986	330	45	73	0.962	146	23.73	8258.0	8564.9
19-Oct-16 10:46:23	Checked for carry over at barton scrubbers.											
19-Oct-16 11:00:00	Gas SG=0.646.											
19-Oct-16 11:00:00	28	87	38	0.978	334	45	73	0.997	127	23.74	8259.0	8565.9
19-Oct-16 11:06:03	Checked for carry over at barton scrubbers.											
19-Oct-16 11:15:00	28	88	38	0.982	330	45	70	0.946	142	23.75	8260.1	8567.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
19-Oct-16 11:30:00	28	87	38	0.985	328	45	72	1.023	99	23.76	8261.0	8568.5
19-Oct-16 11:45:00	28	87	39	0.980	333	45	74	0.971	145	23.77	8262.3	8569.7
19-Oct-16 12:00:00	BSW dry, no solids, H2S 5ppm, CO2 3.5%.											
19-Oct-16 12:00:00	28	87	39	0.985	327	46	71	1.104	63	23.78	8263.4	8571.0
19-Oct-16 12:02:00	Checked for carry over at barton scrubbers.											
19-Oct-16 12:15:00	28	88	39	0.971	331	46	73	1.085	83	23.79	8264.4	8572.1
19-Oct-16 12:30:00	28	88	39	0.985	335	45	69	1.074	70	23.80	8265.4	8573.3
19-Oct-16 12:45:00	28	88	39	0.984	328	46	71	1.000	109	23.81	8266.3	8574.4
19-Oct-16 13:00:00	28	88	39	0.980	337	46	72	1.023	100	23.82	8267.3	8575.6
19-Oct-16 13:08:00	Checked for carry over at barton scrubbers.											
19-Oct-16 13:08:00	Gas SG=0.646.											
19-Oct-16 13:15:00	28	89	40	0.981	331	46	74	1.166	61	23.83	8268.3	8576.6
19-Oct-16 13:30:00	28	89	40	0.981	334	46	74	0.994	130	23.84	8269.4	8577.6
19-Oct-16 13:45:00	28	88	40	0.988	332	46	72	0.988	119	23.85	8270.4	8578.7
19-Oct-16 14:00:00	28	88	40	0.974	339	46	71	0.969	135	23.87	8271.4	8579.7
19-Oct-16 14:03:00	Checked for carry over at barton scrubbers.											
19-Oct-16 14:10:00	Pumped out 59 bbls from tank to pond.											
19-Oct-16 14:15:00	28	89	40	0.977	334	46	70	1.050	83	23.88	8272.4	8580.9
19-Oct-16 14:30:00	28	87	40	0.980	332	45	77	1.085	103	23.89	8273.6	8582.1
19-Oct-16 14:45:00	28	88	39	0.982	336	45	71	1.077	83	23.90	8274.7	8583.2
19-Oct-16 15:00:00	Gas SG=0.646.											
19-Oct-16 15:00:00	28	87	39	0.979	338	43	71	1.111	56	23.91	8275.8	8584.4
19-Oct-16 15:15:00	28	88	39	0.980	327	44	73	1.050	102	23.92	8276.8	8586.0
19-Oct-16 15:30:00	28	88	39	0.979	334	45	72	1.061	94	23.93	8277.9	8587.6
19-Oct-16 15:38:48	WHP dropped, well slugging.											
19-Oct-16 15:40:00	Lifted 1.75" Orifice Plate.											
19-Oct-16 15:40:00	End of MP.											
19-Oct-16 15:45:00	28	56	38		206	43	40	0.615	65	23.94	8278.8	8589.2
19-Oct-16 15:49:24	Water on surface, captured sample, BSW=100% with traces of solids.											
19-Oct-16 15:58:00	Slug water results= Electrical Conductivity=68.78mS@37.3DegC,Water Density=1012.9kg/m3@34.6DegC, Dissolved Oxygen=3.3%, Oxidation Reduction Potential=-138.2mV2, Salinity=37000ppm.											
19-Oct-16 16:00:00	28	95	40		479	45	67	1.074	145	23.95	8281.3	8590.8
19-Oct-16 16:15:00	28	95	39		472	46	63	1.249	80	23.96	8282.2	8591.9
19-Oct-16 16:30:00	28	84	38		396	45	50	1.204	0	23.97	8282.8	8592.9
19-Oct-16 16:45:00	28	76	37		403	44	48	1.073	33	23.98	8283.3	8593.9
19-Oct-16 17:00:00	BSW 100% with 0.25% solids, H2S 5ppm, CO2 3.5%, Gas SG=0.646.											
19-Oct-16 17:00:00	28	79	37		408	43	55	1.077	67	23.99	8284.0	8595.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
19-Oct-16 17:00:20	BSW solids black in colour and flakey consistancy.											
19-Oct-16 17:01:00	Took Isotube sample #31 from separator gas line at 83.8psia 36.5degC.											
19-Oct-16 17:03:00	Observed 100psia differential across sand filter.											
19-Oct-16 17:04:00	Dumped sand filter through adjustable choke to sand skip in attempt to clear.											
19-Oct-16 17:07:00	Still observed differential pressure across sand filter, switched to LH side. Flushed RH side clean.											
19-Oct-16 17:15:00	28	84	36		318	42	70	1.082	59	24.01	8284.7	8595.8
19-Oct-16 17:30:00	28	81	36		336	42	76	1.087	90	24.02	8285.8	8596.6
19-Oct-16 17:45:00	28	83	36		324	42	72	1.045	84	24.03	8286.9	8597.4
19-Oct-16 18:00:00	28	82	36		333	42	78	0.982	137	24.04	8287.9	8598.2
19-Oct-16 18:15:00	28	82	36		333	42	73	1.035	111	24.05	8288.9	8599.2
19-Oct-16 18:30:00	28	81	36		332	42	73	1.081	84	24.06	8290.0	8600.3
19-Oct-16 18:45:00	28	83	36		332	42	73	1.014	108	24.07	8291.0	8601.3
19-Oct-16 19:00:00	28	81	35		335	41	75	1.025	127	24.08	8292.1	8602.3
19-Oct-16 19:15:00	28	82	35		334	41	73	1.081	98	24.09	8293.2	8603.6
19-Oct-16 19:30:00	28	82	35		329	41	74	1.087	91	24.10	8294.2	8604.9
19-Oct-16 19:45:00	28	81	34		337	41	75	1.095	105	24.11	8295.2	8606.1
19-Oct-16 20:00:00	28	82	34		330	41	71	1.042	105	24.12	8296.2	8607.4
19-Oct-16 20:15:00	28	83	34		330	40	73	1.073	88	24.14	8297.2	8608.5
19-Oct-16 20:30:00	28	83	34		330	40	71	1.112	71	24.15	8298.1	8609.7
19-Oct-16 20:45:00	28	83	34		333	40	73	1.183	39	24.16	8299.0	8610.9
19-Oct-16 21:00:00	28	83	33		335	40	75	1.039	121	24.17	8299.9	8612.0
19-Oct-16 21:15:00	28	83	33		333	40	74	1.105	84	24.18	8300.9	8613.0
19-Oct-16 21:30:00	28	83	33		331	40	71	1.106	71	24.19	8301.8	8614.1
19-Oct-16 21:45:00	28	82	33		332	40	76	1.104	81	24.20	8302.8	8615.1
19-Oct-16 22:00:00	28	81	33		326	40	71	1.081	71	24.21	8303.8	8616.1
19-Oct-16 22:01:00	WHP dropping, well slugging.											
19-Oct-16 22:05:00	Slug at surface, checked BSW=100% no solids.											
19-Oct-16 22:15:00	28	97	34		375	40	81	0.980	167	24.22	8305.2	8617.5
19-Oct-16 22:30:00	28	102	34		381	40	83	1.309	79	24.24	8306.7	8618.9
19-Oct-16 22:45:00	28	90	33		301	40	76	1.081	70	24.25	8307.3	8620.3
19-Oct-16 23:00:00	BSW=100%, no solids, CO2=4% H2S=6ppm.											
19-Oct-16 23:00:00	Water results= Electrical Conductivity=51.5mS@20.3DegC,Water Density=1016.8kg/m3@23.6DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-126.6mV2, Salinity=33000ppm.											
19-Oct-16 23:00:00	28	92	33		342	40	75	1.005	145	24.26	8308.4	8621.7
19-Oct-16 23:15:00	28	88	32		328	40	71	1.105	68	24.27	8309.4	8622.9
19-Oct-16 23:30:00	28	88	33		334	40	73	1.095	96	24.28	8310.3	8624.2
19-Oct-16 23:45:00	28	87	32		325	40	72	1.099	74	24.29	8311.1	8625.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
20-Oct-16 00:00:00	28	88	32									8626.7
20-Oct-16 00:15:00	28	88	32		333	40	72	1.132	65	24.31	8312.8	8627.9
20-Oct-16 00:30:00	28	87	32		327	39	71	1.036	97	24.33	8313.6	8629.0
20-Oct-16 00:45:00	28	87	32		332	39	69	1.058	87	24.34	8314.5	8630.2
20-Oct-16 01:00:00	28	88	31		332	39	72	1.130	62	24.35	8315.5	8631.3
20-Oct-16 01:15:00	28	87	31		335	39	70	1.033	105	24.36	8316.5	8632.4
20-Oct-16 01:30:00	28	88	31		329	39	71	1.054	93	24.37	8317.6	8633.4
20-Oct-16 01:45:00	28	87	31		330	39	72	1.202	34	24.38	8318.4	8634.4
20-Oct-16 02:00:00	28	86	31		335	39	73	1.028	112	24.39	8319.4	8635.5
20-Oct-16 02:15:00	28	86	31		334	39	71	1.041	94	24.40	8320.2	8636.5
20-Oct-16 02:30:00	28	88	31		334	39	70	1.020	107	24.42	8321.1	8637.5
20-Oct-16 02:45:00	28	87	31		331	39	76	1.101	95	24.43	8321.9	8638.6
20-Oct-16 03:00:00	Pumped 59.8 bbls from tank to the pond.											
20-Oct-16 03:00:00	28	88	30		328	39	71	1.033	98	24.44	8323.0	8639.6
20-Oct-16 03:15:00	28	87	30		332	39	71	1.076	74	24.45	8324.0	8640.6
20-Oct-16 03:30:00	28	88	30		329	39	73	1.070	104	24.46	8324.8	8641.7
20-Oct-16 03:45:00	28	87	30		333	39	71	1.018	118	24.47	8325.8	8642.7
20-Oct-16 04:00:00	28	87	30		336	39	72	1.135	71	24.48	8326.9	8643.7
20-Oct-16 04:15:00	28	88	30		336	39	71	1.048	88	24.49	8327.7	8645.1
20-Oct-16 04:30:00	28	87	30		331	39	70	1.065	88	24.50	8328.8	8646.5
20-Oct-16 04:45:00	28	87	30		332	38	70	1.067	79	24.52	8329.5	8647.9
20-Oct-16 05:00:00	BSW 100% no solids, H2S 6ppm, CO2 4%, Gas SG=0.646.											
20-Oct-16 05:00:00	Electrical Conductivity=51.5mS@21.5DegC,Water Density=1015.9kg/m3@23.5DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-169.4mV2, Salinity=33000											
20-Oct-16 05:00:00	28	89	30		332	38	72	1.133	73	24.53	8330.4	8649.3
20-Oct-16 05:15:00	28	88	30		333	38	70	1.183	36	24.54	8331.5	8650.4
20-Oct-16 05:30:00	28	87	30		334	38	71	1.072	101	24.55	8332.5	8651.6
20-Oct-16 05:45:00	28	88	30		333	38	70	1.154	47	24.56	8333.3	8652.7
20-Oct-16 06:00:00	28	89	29		328	38	72	0.983	130	24.57	8334.2	8653.9
20-Oct-16 06:15:00	28	89	29		331	38	67	1.106	57	24.58	8335.3	8655.0
20-Oct-16 06:30:00	28	88	29		337	39	70	1.047	84	24.59	8336.1	8656.2
20-Oct-16 06:45:00	28	88	30		334	39	71	0.968	135	24.60	8336.9	8657.3
20-Oct-16 07:00:00	28	87	30		324	40	71	0.946	132	24.61	8337.9	8658.5
20-Oct-16 07:01:00	WHP started to drop, well slugging.											
20-Oct-16 07:08:00	Water on surface, took sample. BSW=100% no solids.											
20-Oct-16 07:15:00	28	98	32		374	41	79	0.943	196	24.62	8339.0	8660.0
20-Oct-16 07:30:00	28	102	33		368	42	81	1.260	70	24.63	8340.3	8661.5
20-Oct-16 07:45:00	28	85	32		318	42	69	0.989	90	24.65	8341.2	8662.9
20-Oct-16 08:00:00	28	92	33		334	42	71	1.132	67	24.66	8342.2	8664.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
20-Oct-16 08:15:00	28	88	34		331	42	73	0.991	117	24.67	8343.2	8665.4
20-Oct-16 08:30:00	VX computer preparing forced re-boot, prepare back up laptop.											
20-Oct-16 08:30:00	28	91	34		329	43	68	1.014	97	24.68	8344.2	8666.3
20-Oct-16 08:45:00	28	88	35		330	43	70	0.999	121	24.69	8345.2	8667.2
20-Oct-16 09:00:00	VX computer re-booting.											
20-Oct-16 09:00:00	28	89	35									8668.1
20-Oct-16 09:15:00	28	87	36									8077.2
20-Oct-16 09:22:00	VX computer up and running, re-connect to interact.											
20-Oct-16 09:30:00	28	90	37		331	44	73	1.048	108	24.71	8346.6	7486.3
20-Oct-16 09:45:00	28	89	37		326	44	73	0.937	141	24.72	8347.6	6895.5
20-Oct-16 09:48:00	Lowered 1.750" orifice plate.											
20-Oct-16 09:49:00	MP on 28/64" Fixed Choke.											
20-Oct-16 09:50:00	Gas SG = 0.646.											
20-Oct-16 10:00:00	28	89	37	0.970	331	44	71	1.030	110	24.73	8348.6	6304.6
20-Oct-16 10:15:00	28	87	37	0.971	320	44	71	0.968	116	24.74	8349.6	6897.8
20-Oct-16 10:30:00	28	87	38	0.962	329	45	74	0.980	124	24.75	8350.6	7490.9
20-Oct-16 10:45:00	28	89	38	0.966	328	45	70	0.978	104	24.76	8351.8	8084.1
20-Oct-16 11:00:00	BSW dry, no solids, H2S 4ppm, CO2 3%, Gas SG= 0.640.											
20-Oct-16 11:00:00	28	87	38	0.964	328	45	71	0.932	146	24.77	8353.0	8677.3
20-Oct-16 11:03:27	Checked barton scrubbers for carry over.											
20-Oct-16 11:15:00	28	89	38	0.961	329	45	71	1.109	75	24.78	8354.0	8678.5
20-Oct-16 11:30:00	28	90	39	0.965	328	45	71	1.050	91	24.79	8354.9	8679.6
20-Oct-16 11:45:00	28	89	39	0.962	333	45	71	1.013	114	24.80	8356.0	8680.8
20-Oct-16 12:00:00	28	89	39	0.972	332	45	73	0.984	131	24.81	8357.0	8681.9
20-Oct-16 12:15:00	28	89	39	0.957	330	46	75	1.008	99	24.82	8358.0	8683.2
20-Oct-16 12:30:00	28	89	39	0.968	326	46	71	1.007	104	24.83	8359.0	8684.4
20-Oct-16 12:45:00	28	90	40	0.958	333	46	73	0.921	156	24.84	8360.1	8685.7
20-Oct-16 12:51:00	Raised 1.750" orifice plate.											
20-Oct-16 12:51:00	End of MP.											
20-Oct-16 12:52:00	Switched to 28/64" adjustable choke.											
20-Oct-16 12:52:00	End of FP #1.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #2 EPT Flow - Data

Flow on 32/64" Fixed Choke

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
20-Oct-16 12:53:00	FP #2 Extended Production Test Flow on 32/64" Fixed Choke.											
20-Oct-16 12:53:00	Increased to 30/64" adjustable choke.											
20-Oct-16 12:53:00	30	89	40		329	46	94	1.135	65	24.85	8360.6	8686.4
20-Oct-16 13:00:00	30	86	40		268	46	97	1.122	89	24.86	8361.2	8687.0
20-Oct-16 13:15:00	30	86	40		276	46	103	1.225	72	24.87	8362.7	8688.2
20-Oct-16 13:30:00	30	86	41		271	46	98	1.098	119	24.88	8364.2	8689.5
20-Oct-16 13:45:00	30	87	41		277	46	107	1.094	143	24.89	8365.5	8690.8
20-Oct-16 13:51:00	Increased to 32/64" adjustable choke.											
20-Oct-16 13:57:31	Switched to 32/64" fixed choke.											
20-Oct-16 14:00:00	32	86	41		258	46	100	1.089	94	24.90	8366.8	8692.0
20-Oct-16 14:15:00	32	89	41		276	46	107	1.153	126	24.91	8368.0	8693.3
20-Oct-16 14:30:00	32	87	41		261	46	105	1.057	127	24.92	8369.3	8694.6
20-Oct-16 14:45:00	32	88	41		269	46	103	1.084	137	24.94	8370.7	8695.8
20-Oct-16 15:00:00	BSW dry no solids.											
20-Oct-16 15:00:00	32	87	41		262	46	105	0.992	185	24.95	8372.0	8697.1
20-Oct-16 15:15:00	32	87	41		265	46	105	1.022	167	24.96	8373.1	8698.3
20-Oct-16 15:30:00	32	87	41		264	46	105	1.071	138	24.97	8374.5	8699.4
20-Oct-16 15:36:00	Lowered 1.750" Orifice Plate.											
20-Oct-16 15:38:00	MP on 32/64" Fixed Choke.											
20-Oct-16 15:40:00	32/64" Fixed Choke, 1.750" Orifice Plate, Gas SG=0.640.											
20-Oct-16 15:45:00	32	87	40	1.014	265	45	103	1.260	37	24.98	8375.6	8700.6
20-Oct-16 16:00:00	32	87	40	1.021	263	44	102	1.137	110	24.99	8376.8	8701.7
20-Oct-16 16:10:00	Pumped 62.4 bbls from tank to pond.											
20-Oct-16 16:15:00	32	87	40	1.022	262	44	106	1.003	169	25.00	8377.9	8702.9
20-Oct-16 16:30:00	32	87	40	1.013	261	44	102	1.096	124	25.02	8379.0	8704.0
20-Oct-16 16:45:00	32	87	40	1.016	261	44	106	1.177	89	25.03	8380.4	8705.1
20-Oct-16 17:00:00	BSW=100%, trace of solids, H2S 6ppm, CO2 4%, Gas SG = 0.642.											
20-Oct-16 17:00:00	Checked for carry over at barton scrubbers.											
20-Oct-16 17:00:00	32	88	40	1.010	259	44	105	1.115	111	25.04	8381.5	8706.3
20-Oct-16 17:01:00	Took Isotube Sample #32 from separator gas line at 86 psia 40degC.											
20-Oct-16 17:01:00	Electrical Conductivity=62.58mS@31degC,Water Density=1014.5kg/m3@30.6DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-183.4mV2, Salinity=38000p											
20-Oct-16 17:15:00	32	88	39	1.012	256	43	104	1.098	111	25.05	8382.6	8707.6
20-Oct-16 17:30:00	32	86	39	1.008	260	43	102	1.086	114	25.06	8383.8	8708.8
20-Oct-16 17:45:00	32	88	39	1.019	259	42	102	1.095	114	25.07	8385.2	8710.1
20-Oct-16 18:00:00	32	87	38	1.013	258	42	108	1.021	181	25.08	8386.3	8711.4
20-Oct-16 18:15:00	32	86	38	1.013	262	42	104	1.089	124	25.09	8387.5	8712.5
20-Oct-16 18:30:00	32	87	37	1.020	261	42	103	1.155	103	25.11	8388.7	8713.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
20-Oct-16 18:45:00	32	87	37	1.018	258	42	102	1.079	135	25.12	8390.0	8714.8
20-Oct-16 19:00:00	32	86	37	1.023	262	42	103	1.196	77	25.13	8391.3	8716.0
20-Oct-16 19:01:00	Wellhead pressure dropping, slug coming.											
20-Oct-16 19:02:00	Lifted 1.750" Orifice Plate.											
20-Oct-16 19:02:00	End of MP.											
20-Oct-16 19:03:00	Slug: BSW=100% no trace of solids, waiting for well stabilization.											
20-Oct-16 19:15:00	32	74	36		242	41	119	0.927	240	25.14	8392.5	8717.2
20-Oct-16 19:30:00	32	95	36		279	41	112	1.285	85	25.15	8394.0	8718.5
20-Oct-16 19:45:00	32	86	35		263	40	106	1.099	156	25.16	8395.1	8719.8
20-Oct-16 20:00:00	32	88	35		258	40	102	1.179	82	25.18	8396.2	8721.0
20-Oct-16 20:15:00	32	86	35		259	40	103	1.027	154	25.19	8397.5	8722.1
20-Oct-16 20:30:00	32	86	35		259	40	103	0.980	194	25.20	8398.8	8723.1
20-Oct-16 20:45:00	32	86	34		261	40	103	1.232	69	25.21	8399.8	8724.1
20-Oct-16 21:00:00	32	86	34		256	40	99	1.144	64	25.22	8400.6	8725.2
20-Oct-16 21:15:00	32	86	34		263	40	106	1.177	104	25.24	8401.8	8726.4
20-Oct-16 21:30:00	32	85	34		258	40	104	1.055	142	25.25	8402.7	8727.7
20-Oct-16 21:45:00	32	85	34		260	40	104	1.131	112	25.26	8403.9	8729.0
20-Oct-16 22:00:00	32	85	34		265	40	102	0.994	182	25.27	8405.2	8730.2
20-Oct-16 22:15:00	32	86	34		260	40	102	1.048	136	25.28	8406.3	8731.5
20-Oct-16 22:30:00	32	86	34		258	40	99	1.099	105	25.29	8407.5	8732.8
20-Oct-16 22:45:00	32	85	34		260	40	101	1.157	62	25.31	8408.5	8734.0
20-Oct-16 23:00:00	BSW=100%, no trace, H2S 5ppm, CO2 3%, Gas SG = 0.644.											
20-Oct-16 23:00:00	Electrical Conductivity=56.35mS@25.1degC,Water Density=1014.5kg/m3@28.6DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-161.1mV2, Salinity=3000											
20-Oct-16 23:00:00	32	86	34		260	40	102	1.114	82	25.32	8409.7	8735.3
20-Oct-16 23:08:00	Lowered 1.750" Orifice Plate.											
20-Oct-16 23:09:00	Orifice plate stuck in middle compartment.											
20-Oct-16 23:15:00	32	84	33		264	40	103	1.180	96	25.33	8410.7	8736.2
20-Oct-16 23:24:00	Bypassing the separator.											
20-Oct-16 23:30:00	Skew plate re-centred.											
20-Oct-16 23:30:00	32	20	32		261	40	101	1.307	32	25.34	8411.9	8737.1
20-Oct-16 23:37:00	Putting separator back online, closing bypass.											
20-Oct-16 23:39:00	Separator back online.											
20-Oct-16 23:45:00	32	98	33		261	39	102	1.015	171	25.35	8413.1	8738.0
20-Oct-16 23:50:00	Flow stabilized, dropping 1.750" Orifice Plate.											
20-Oct-16 23:55:00	MP on 32/64" Fixed Choke.											
21-Oct-16 00:00:00	32	97	33	1.062								8739.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
21-Oct-16 00:10:00	From Vx manifold: Gas SG = 0.644.											
21-Oct-16 00:15:00	32	98	33	1.069	262	39	101	1.084	127	25.37	8415.3	8740.2
21-Oct-16 00:30:00	32	99	33	1.073	257	39	103	0.989	160	25.39	8416.4	8741.5
21-Oct-16 00:45:00	32	97	33	1.073	256	39	102	1.089	117	25.40	8417.4	8742.8
21-Oct-16 01:00:00	32	98	33	1.063	262	39	101	1.041	138	25.41	8418.7	8744.0
21-Oct-16 01:15:00	32	98	33	1.066	264	39	101	1.239	53	25.42	8419.8	8745.3
21-Oct-16 01:30:00	Checked for carry over at barton scrubbers.											
21-Oct-16 01:30:00	32	99	33	1.071	262	40	103	1.027	159	25.43	8421.0	8746.5
21-Oct-16 01:45:00	32	98	33	1.067	258	40	98	1.086	115	25.44	8422.2	8747.8
21-Oct-16 02:00:00	32	100	33	1.071	258	40	102	1.152	77	25.46	8423.3	8749.1
21-Oct-16 02:15:00	32	98	33	1.069	261	40	104	1.115	124	25.47	8424.3	8750.2
21-Oct-16 02:30:00	32	98	33	1.072	258	40	98	1.030	125	25.48	8425.6	8751.4
21-Oct-16 02:45:00	32	100	33	1.072	264	40	102	1.134	105	25.49	8426.7	8752.5
21-Oct-16 03:00:00	32	99	33	1.072	258	40	99	1.236	48	25.50	8427.6	8753.7
21-Oct-16 03:15:00	32	98	33	1.074	261	40	104	1.056	139	25.51	8428.6	8754.8
21-Oct-16 03:30:00	32	98	33	1.069	264	40	103	1.166	85	25.53	8429.6	8756.0
21-Oct-16 03:45:00	32	100	33	1.075	262	40	102	1.034	156	25.54	8430.8	8757.1
21-Oct-16 04:00:00	32	98	33	1.071	258	40	102	1.015	168	25.55	8432.0	8758.3
21-Oct-16 04:15:00	32	99	33	1.071	263	40	101	1.087	128	25.56	8433.2	8759.4
21-Oct-16 04:30:00	32	99	33	1.068	260	40	100	1.152	106	25.57	8434.4	8760.6
21-Oct-16 04:45:00	32	99	33	1.072	256	40	105	1.147	92	25.58	8435.4	8761.7
21-Oct-16 05:00:00	BSW=100%, no trace, H2S 5ppm, CO2 3.5%, Gas SG = 0.644.											
21-Oct-16 05:00:00	Electrical Conductivity=54.55mS@23.8C,Water Density=1014.6kg/m3@27.4DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-158.7mV2, Salinity=30000pp											
21-Oct-16 05:00:00	Pumped 62.24 bbls from tank to the pond.											
21-Oct-16 05:00:00	32	100	33	1.066	260	40	100	1.326	32	25.60	8436.4	8762.9
21-Oct-16 05:08:36	Checked for carry over at barton scrubbers.											
21-Oct-16 05:15:00	32	101	33	1.066	257	40	105	1.196	77	25.61	8437.4	8764.1
21-Oct-16 05:30:00	32	100	33	1.065	258	40	98	1.236	48	25.62	8438.3	8765.4
21-Oct-16 05:45:00	32	99	33	1.066	262	40	103	1.180	80	25.63	8439.3	8766.7
21-Oct-16 06:00:00	32	100	33	1.069	254	40	103	0.953	190	25.64	8440.2	8767.9
21-Oct-16 06:15:00	32	100	33	1.065	264	40	101	1.070	151	25.65	8441.4	8769.0
21-Oct-16 06:30:00	32	101	33	1.071	261	40	101	1.141	99	25.66	8442.6	8770.0
21-Oct-16 06:30:08	Checked for carry over at barton scrubbers.											
21-Oct-16 06:45:00	32	101	33	1.055	262	40	100	1.099	121	25.68	8443.6	8771.0
21-Oct-16 07:00:00	32	99	33	1.052	256	39	99	0.976	173	25.69	8444.8	8772.1
21-Oct-16 07:01:58	Checked for carry over at barton scrubbers.											
21-Oct-16 07:15:00	32	100	33	1.050	259	39	102	1.176	79	25.70	8445.9	8773.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
21-Oct-16 07:30:00	32	100	33	1.052	258	40	100	1.031	147	25.71	8447.2	8774.8
21-Oct-16 07:45:00	32	100	33	1.055								8776.2
21-Oct-16 08:00:00	32	102	33	1.056	255	40	99	1.117	95	25.72	8448.0	8777.6
21-Oct-16 08:01:04	Checked for carry over at barton scrubbers.											
21-Oct-16 08:15:00	32	100	33	1.047	257	40	100	1.102	105	25.73	8449.0	8778.8
21-Oct-16 08:30:00	32	101	33	1.052	255	40	102	1.042	126	25.74	8450.1	8779.9
21-Oct-16 08:45:00	32	101	34	1.056	256	40	100	1.258	33	25.75	8451.1	8781.1
21-Oct-16 08:58:08	Checked for carry over at barton scrubbers.											
21-Oct-16 09:00:00	32	101	34	1.033	259	40	98	1.092	118	25.76	8452.3	8782.2
21-Oct-16 09:15:00	32	102	34	1.055	255	41	98	0.982	154	25.77	8453.5	8783.2
21-Oct-16 09:30:00	32	101	35	1.051	255	42	100	1.010	128	25.79	8454.7	8784.3
21-Oct-16 09:45:00	32	101	35	1.052	257	42	100	1.100	105	25.80	8455.9	8785.3
21-Oct-16 09:49:56	Checked for carry over at barton scrubbers.											
21-Oct-16 10:00:00	Gas SG 0.640.											
21-Oct-16 10:00:00	32	102	36	1.047	252	43	97	1.108	87	25.81	8456.9	8786.3
21-Oct-16 10:15:00	32	102	37	1.046	257	43	100	1.065	126	25.82	8458.2	8787.6
21-Oct-16 10:30:00	32	102	37	1.050	251	44	97	0.961	156	25.83	8459.3	8788.9
21-Oct-16 10:45:00	32	102	38	1.052	253	44	98	1.167	66	25.84	8460.4	8790.1
21-Oct-16 11:00:00	BSW dry, no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.											
21-Oct-16 11:00:00	32	101	39	1.039	253	45	104	1.062	142	25.85	8461.7	8791.4
21-Oct-16 11:15:00	32	93	39	1.040	254	45	100	1.039	135	25.86	8462.9	8792.7
21-Oct-16 11:30:00	32	94	39	1.032	254	45	101	1.051	123	25.87	8464.1	8793.9
21-Oct-16 11:45:00	32	95	40	1.031	261	46	102	1.112	107	25.89	8465.3	8795.2
21-Oct-16 11:46:00	WHP dropping, well slugging.											
21-Oct-16 11:48:00	Raised 1.75" orifice plate											
21-Oct-16 11:48:00	End of MP.											
21-Oct-16 12:00:00	32	96	40		295	46	114	1.041	216	25.90	8466.6	8796.5
21-Oct-16 12:15:00	32	97	40		259	45	100	1.119	99	25.91	8467.9	8797.7
21-Oct-16 12:30:00	32	91	40		263	45	104	1.048	140	25.92	8469.1	8799.0
21-Oct-16 12:45:00	32	92	40		250	45	99	1.221	44	25.93	8470.2	8800.3
21-Oct-16 13:00:00	32	92	40		256	46	101	1.204	66	25.94	8471.5	8801.5
21-Oct-16 13:15:00	32	92	40		259	45	101	1.093	90	25.95	8472.6	8802.6
21-Oct-16 13:30:00	32	91	40		254	45	99	1.039	118	25.97	8473.6	8803.6
21-Oct-16 13:45:00	32	90	40		254	44	98	0.976	161	25.98	8474.9	8804.6
21-Oct-16 14:00:00	32	91	40		259	44	102	1.136	102	25.99	8476.1	8805.7
21-Oct-16 14:15:00	32	91	40		256	46	102	1.080	114	26.00	8477.3	8806.7
21-Oct-16 14:30:00	32	90	40		257	44	100	1.111	85	26.01	8478.3	8807.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
21-Oct-16 14:45:00	32	91	40		253	44	101	1.048	135	26.02	8479.4	8808.8
21-Oct-16 15:00:00	Gas SG 0.640.											
21-Oct-16 15:00:00	32	89	40		259	44	102	1.090	114	26.03	8480.4	8809.8
21-Oct-16 15:15:00	32	91	40		259	45	101	1.096	115	26.04	8481.5	8811.0
21-Oct-16 15:18:00	Lowered 1.75" Orifice Plate.											
21-Oct-16 15:23:00	MP on 32/64" Fixed Choke.											
21-Oct-16 15:30:00	32	89	40	1.033	252	44	97	1.176	66	26.06	8482.7	8812.1
21-Oct-16 15:45:00	32	90	40	1.003	256	46	98	1.103	97	26.07	8483.8	8813.3
21-Oct-16 16:00:00	32	91	40	1.011	263	44	102	1.107	115	26.08	8485.1	8814.4
21-Oct-16 16:10:00	Pumped 47.46 bbl from tank to pond.											
21-Oct-16 16:15:00	32	90	40	1.011	253	44	99	1.000	133	26.09	8486.1	8815.5
21-Oct-16 16:30:00	32	91	39	1.012	258	43	101	1.196	72	26.10	8487.4	8816.5
21-Oct-16 16:45:00	32	92	39	1.019	252	43	97	1.065	117	26.11	8488.4	8817.6
21-Oct-16 17:00:00	Took Iso Sample#33 from separator gas line 90.9psia @ 38.7 degC.											
21-Oct-16 17:00:00	32	92	39	1.016	254	43	97	1.069	114	26.12	8489.5	8818.6
21-Oct-16 17:00:01	Electrical Conductivity=62.73mS@27.5degC,Water Density=1015.6kg/m3@31DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-178mV2, Salinity=32000pp											
21-Oct-16 17:01:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.											
21-Oct-16 17:15:00	32	91	38	1.012	252	43	100	1.007	129	26.13	8490.8	8819.6
21-Oct-16 17:30:00	32	92	38	1.019	257	43	98	1.064	107	26.15	8491.9	8820.7
21-Oct-16 17:45:00	32	92	38	1.017	260	42	102	1.177	85	26.16	8493.0	8821.7
21-Oct-16 18:00:00	32	91	37	1.028	251	40	99	1.058	115	26.17	8494.2	8822.7
21-Oct-16 18:15:00	32	91	36	1.025	260	39	100	1.024	152	26.18	8495.3	8823.8
21-Oct-16 18:30:00	InterACT lost connection, stopping OPC.											
21-Oct-16 18:30:00	32	90	35	1.028	259	39	103	1.124	107	26.19	8496.4	8824.8
21-Oct-16 18:45:00	32	91	35	1.027	260	39	102	1.181	77	26.20	8497.4	8825.8
21-Oct-16 19:00:00	Dart crashed, InterACT connection already lost.											
21-Oct-16 19:00:00	32	91	34	1.029	257	39	102	1.069	143	26.21	8498.5	8826.9
21-Oct-16 19:01:00	Dart back online, InterACT connection re-established.											
21-Oct-16 19:15:00	32	91	34	1.027	252	39	101	1.144	90	26.23	8499.5	8828.3
21-Oct-16 19:30:00	32	91	34	1.028	255	39	100	1.036	146	26.24	8500.8	8829.6
21-Oct-16 19:45:00	32	90	33	1.025	261	39	102	1.034	155	26.25	8502.0	8831.0
21-Oct-16 20:00:00	32	91	33	1.030	257	39	99	1.011	143	26.26	8503.1	8832.4
21-Oct-16 20:15:00	32	91	33	1.028	259	39	100	1.198	66	26.27	8504.3	8833.5
21-Oct-16 20:30:00	32	92	33	1.039	252	39	101	1.132	99	26.28	8505.3	8834.7
21-Oct-16 20:45:00	32	90	32	1.026	256	38	98	1.171	81	26.29	8506.4	8835.9
21-Oct-16 21:00:00	32	91	32	1.030	253	39	97	1.178	63	26.31	8507.4	8837.0
21-Oct-16 21:15:00	32	91	32	1.028	257	39	101	1.039	142	26.32	8508.5	8838.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
21-Oct-16 21:30:00	32	90	32	1.028	259	39	103	1.169	103	26.33	8509.6	8839.3
21-Oct-16 21:45:00	32	90	32	1.033	257	39	97	1.151	75	26.34	8510.6	8840.5
21-Oct-16 22:00:00	32	91	32	1.032	254	39	98	1.015	148	26.35	8511.8	8841.6
21-Oct-16 22:15:00	32	90	32	1.030	257	39	101	1.116	106	26.36	8512.9	8842.8
21-Oct-16 22:30:00	32	91	32	1.031	256	38	99	1.101	93	26.38	8513.9	8843.9
21-Oct-16 22:45:00	32	91	31	1.036	252	36	99	1.121	83	26.39	8514.8	8845.1
21-Oct-16 23:00:00	From Vx manifold: Electrical Conductivity=53.37mS@23degC,Water Density=1015.6kg/m3@25DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-168.4mV2, Salinity=25000ppm.											
21-Oct-16 23:00:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.642.											
21-Oct-16 23:00:00	32	90	30	1.030	259	37	100	1.110	112	26.40	8515.8	8846.2
21-Oct-16 23:15:00	32	90	30	1.021	259	37	101	1.044	143	26.41	8517.0	8847.4
21-Oct-16 23:20:00	Checked for carry over at barton scrubbers.											
21-Oct-16 23:30:00	32	91	30	1.028	254	38	102	1.064	118	26.42	8517.9	8848.5
21-Oct-16 23:45:00	32	91	30	1.028	252	37	101	1.165	79	26.43	8518.9	8849.6
22-Oct-16 00:00:00	32	91	30	1.030								8850.8
22-Oct-16 00:15:00	32	90	30	1.030	254	38	102	1.152	73	26.46	8521.0	8851.9
22-Oct-16 00:30:00	32	91	30	1.027	251	37	103	1.253	53	26.47	8522.1	8853.1
22-Oct-16 00:45:00	32	91	30	1.034	252	38	98	1.111	96	26.48	8523.1	8854.3
22-Oct-16 01:00:00	Changed propane gas bottle feeding the flare.											
22-Oct-16 01:00:00	32	91	30	1.028	257	38	99	1.081	112	26.49	8524.1	8855.4
22-Oct-16 01:15:00	32	90	30	1.036	250	37	101	1.043	125	26.50	8525.2	8856.5
22-Oct-16 01:30:00	32	91	30	1.030	257	37	100	1.069	127	26.51	8526.4	8857.7
22-Oct-16 01:45:00	32	91	30	1.035	258	37	100	1.086	125	26.52	8527.6	8858.9
22-Oct-16 02:00:00	32	90	30	1.035	253	37	101	1.065	103	26.54	8528.6	8860.0
22-Oct-16 02:07:00	Checked for carry over at barton scrubbers.											
22-Oct-16 02:15:00	32	91	30	1.011	256	38	97	1.171	66	26.55	8529.7	8861.2
22-Oct-16 02:30:00	32	92	30	1.039	247	38	93	1.136	66	26.56	8530.8	8862.3
22-Oct-16 02:45:00	32	91	30	1.029	256	38	101	1.191	62	26.57	8531.8	8863.5
22-Oct-16 03:00:00	32	91	30	1.034	256	38	99	1.152	71	26.58	8532.7	8864.6
22-Oct-16 03:15:00	32	90	30	1.034	251	38	98	1.149	76	26.59	8533.8	8865.8
22-Oct-16 03:30:00	32	91	30	1.034	256	38	100	1.227	53	26.60	8534.9	8866.9
22-Oct-16 03:45:00	Started raining outside.											
22-Oct-16 03:45:00	32	91	30	1.030	259	37	100	1.270	37	26.62	8536.1	8868.1
22-Oct-16 03:55:00	Slug at surface.											
22-Oct-16 04:00:00	32	86	30	1.010	240	37	92	1.006	123	26.63	8537.3	8869.2
22-Oct-16 04:15:00	32	98	30	1.053	273	36	101	1.107	116	26.64	8538.5	8870.4
22-Oct-16 04:30:00	32	90	29	1.052	261	36	98	1.062	116	26.65	8539.4	8871.5
22-Oct-16 04:45:00	32	92	29	1.050	257	37	99	1.180	72	26.66	8540.6	8872.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
22-Oct-16 05:00:00	From Vx manifold: Electrical Conductivity=54.17mS@23.3degC,Water Density=1015.4kg/m3@25.1DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-173.4mV2, Salinity=27000ppm.											
22-Oct-16 05:00:00	BSW=100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.642.											
22-Oct-16 05:00:00	32	91	29	1.046	254	38	96	1.046	134	26.67	8541.6	8873.8
22-Oct-16 05:10:00	Pumped 58.88 bbls from tank to the pond.											
22-Oct-16 05:15:00	32	91	29	1.036	263	38	99	1.035	138	26.68	8542.7	8874.9
22-Oct-16 05:30:00	32	91	30	1.042	253	38	97	1.216	46	26.70	8543.5	8876.1
22-Oct-16 05:45:00	32	92	30	1.038	254	38	97	1.104	106	26.71	8544.5	8877.3
22-Oct-16 06:00:00	32	91	30	1.040	253	38	103	1.122	93	26.72	8545.6	8878.4
22-Oct-16 06:15:00	32	92	30	1.031	257	38	97	1.185	57	26.73	8546.6	8879.5
22-Oct-16 06:30:00	32	92	30	1.040	255	38	98	1.075	126	26.74	8547.5	8880.7
22-Oct-16 06:45:00	32	92	30	1.036	260	38	97	1.041	130	26.75	8548.4	8881.9
22-Oct-16 07:00:00	32	92	30	1.041	255	38	95	1.027	138	26.76	8549.6	8883.0
22-Oct-16 07:00:42	Checked barton scrubbers for carry over.											
22-Oct-16 07:15:00	32	92	30	1.032	250	36	94	1.137	70	26.78	8550.7	8884.2
22-Oct-16 07:30:00	32	91	29	1.033	260	36	100	1.165	99	26.79	8551.9	8885.3
22-Oct-16 07:45:00	32	91	29	1.041	258	36	98	1.101	98	26.80	8553.2	8886.5
22-Oct-16 08:00:00	Gas SG 0.640.											
22-Oct-16 08:00:00	32	92	29	1.040	258	36	95	1.132	85	26.81	8554.3	8887.6
22-Oct-16 08:10:38	Checked for carry over on barton scrubbers.											
22-Oct-16 08:15:00	32	91	29	1.028	253	37	99	0.971	165	26.82	8555.2	8888.8
22-Oct-16 08:30:00	32	93	29	1.040	253	38	95	1.202	46	26.83	8556.3	8889.9
22-Oct-16 08:45:00	32	92	30	1.040	254	38	98	1.167	70	26.84	8557.1	8891.1
22-Oct-16 09:00:00	32	93	30	1.037	250	38	101	1.118	77	26.86	8558.1	8892.2
22-Oct-16 09:05:18	Checked for carry over on barton scrubbers.											
22-Oct-16 09:15:00	32	94	30	1.037	252	38	95	1.151	74	26.87	8559.3	8893.2
22-Oct-16 09:30:00	32	92	30	1.036	250	38	96	1.151	67	26.88	8560.3	8894.3
22-Oct-16 09:45:00	32	92	30	1.042	256	38	97	1.142	69	26.89	8561.2	8895.3
22-Oct-16 10:00:00	32	92	30	1.042	255	38	95	1.067	104	26.90	8562.2	8896.4
22-Oct-16 10:03:49	Checked for carry over on barton scrubbers.											
22-Oct-16 10:15:00	32	91	31	1.029	254	39	101	1.079	121	26.91	8563.1	8897.6
22-Oct-16 10:30:00	32	93	31	1.034	258	40	98	1.137	68	26.92	8564.2	8898.9
22-Oct-16 10:45:00	32	93	31	1.041	256	40	98	1.094	108	26.94	8565.3	8900.2
22-Oct-16 11:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.640.											
22-Oct-16 11:00:00	32	92	32	1.039	249	40	95	1.004	133	26.95	8566.2	8901.4
22-Oct-16 11:00:01	Took ALS samples from separator oil line, PH 7, 26.6degC, Electrical Conductivity 57.14mS cumulative 8901bbls.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
22-Oct-16 11:01:00	Water sample from VX=Electrical Conductivity=56.7mS@26degC,Water Density=1014kg/m3@29DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-125.9mV2, Salinity=25000ppm.											
22-Oct-16 11:07:09	Checked for carry over on barton scrubbers.											
22-Oct-16 11:15:00	32	92	32	1.012	253	40	100	1.109	108	26.96	8567.3	8902.5
22-Oct-16 11:30:00	32	93	32	1.038	255	39	99	1.188	46	26.97	8568.3	8903.5
22-Oct-16 11:45:00	32	92	32	1.038	252	39	98	0.986	140	26.98	8569.3	8904.5
22-Oct-16 11:59:08	Checked for carry over on barton scrubbers.											
22-Oct-16 12:00:00	32	93	32	1.034	256	39	96	1.065	106	26.99	8570.5	8905.6
22-Oct-16 12:15:00	32	93	32	1.039	253	39	97	0.989	144	27.00	8571.5	8906.7
22-Oct-16 12:30:00	32	93	32	1.040	253	39	97	1.123	101	27.01	8572.6	8907.9
22-Oct-16 12:45:00	32	94	32	1.043	248	38	100	1.100	84	27.03	8573.7	8909.0
22-Oct-16 13:00:00	Gas SG 0.640.											
22-Oct-16 13:00:00	32	93	32	1.037	253	39	96	1.011	134	27.04	8574.8	8910.2
22-Oct-16 13:01:05	Checked for carry over on barton scrubbers.											
22-Oct-16 13:15:00	32	93	32	1.034	250	39	103	1.005	138	27.05	8575.8	8911.3
22-Oct-16 13:30:00	32	93	32	1.037	254	39	94	1.042	103	27.06	8576.9	8912.5
22-Oct-16 13:45:00	32	95	32	1.042	256	39	97	1.237	38	27.07	8577.9	8913.6
22-Oct-16 14:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 14:00:00	32	93	32	1.044	250	39	96	1.049	111	27.08	8578.8	8914.8
22-Oct-16 14:15:00	32	93	31	1.033	255	38	96	1.078	104	27.09	8579.9	8915.9
22-Oct-16 14:30:00	32	92	31	1.044	253	38	96	1.033	116	27.11	8580.9	8917.1
22-Oct-16 14:45:00	32	94	31	1.038	261	38	100	1.128	76	27.12	8581.9	8918.2
22-Oct-16 15:00:00	Gas SG 0.640.											
22-Oct-16 15:00:00	32	93	31	1.048	251	38	94	1.111	75	27.13	8582.9	8919.4
22-Oct-16 15:02:15	Checked for carry over on barton scrubbers.											
22-Oct-16 15:15:00	32	93	30	1.039	256	37	100	1.152	86	27.14	8583.8	8920.5
22-Oct-16 15:30:00	32	93	30	1.045	257	37	98	1.121	78	27.15	8585.0	8921.7
22-Oct-16 15:45:00	32	93	30	1.046	252	36	96	1.119	78	27.16	8586.0	8922.8
22-Oct-16 16:00:00	32	93	30	1.043	260	36	98	1.127	86	27.17	8586.9	8924.0
22-Oct-16 16:03:11	Checked for carry over on barton scrubbers.											
22-Oct-16 16:15:00	32	94	30	1.043	252	38	97	1.132	70	27.19	8587.7	8925.1
22-Oct-16 16:30:00	32	92	30	1.042	259	38	95	1.124	84	27.20	8588.7	8926.3
22-Oct-16 16:45:00	32	93	30	1.049	256	39	97	1.082	114	27.21	8589.9	8927.4
22-Oct-16 16:57:34	Checked for carry over on barton scrubbers.											
22-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
22-Oct-16 17:00:00	Took Isotube sample #34 from separator at 93psia 31degC.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
22-Oct-16 17:00:00	Water sample from VX=Electrical Conductivity=54.38 mS@23.2degC,Water Density=1015kg/m3@Deg29.5C, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-196.6mV2, Salinity=25000ppm.											
22-Oct-16 17:00:00	32	92	31	1.033	253	39	98	1.111	118	27.22	8591.0	8928.6
22-Oct-16 17:10:00	Pumped 56.58 bbl from tank to pond.											
22-Oct-16 17:15:00	32	94	31	1.037	260	39	97	1.264	40	27.23	8592.2	8929.7
22-Oct-16 17:30:00	32	94	31	1.049	250	39	96	0.976	158	27.24	8593.3	8930.9
22-Oct-16 17:45:00	32	94	31	1.044	254	39	95	1.038	115	27.25	8594.0	8932.0
22-Oct-16 18:00:00	32	95	31	1.039	255	39	94	1.190	53	27.26	8595.1	8933.2
22-Oct-16 18:15:00	32	94	31	1.048	248	39	96	1.148	67	27.27	8596.2	8934.2
22-Oct-16 18:30:00	32	95	31	1.046	248	39	93	1.115	75	27.29	8597.2	8935.3
22-Oct-16 18:45:00	32	94	31	1.046	252	38	96	1.042	121	27.30	8598.2	8936.3
22-Oct-16 19:00:00	32	93	31	1.047	256	38	97	1.136	73	27.31	8599.3	8937.3
22-Oct-16 19:15:00	32	94	31	1.046	254	38	97	1.131	75	27.32	8600.2	8938.6
22-Oct-16 19:30:00	32	92	31	1.039	257	38	97	1.195	64	27.33	8601.4	8939.9
22-Oct-16 19:45:00	32	94	31	1.041	248	38	97	1.126	81	27.34	8602.5	8941.1
22-Oct-16 20:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 20:00:00	32	93	30	1.040	256	38	95	1.121	77	27.35	8603.7	8942.4
22-Oct-16 20:15:00	32	94	30	1.024	253	37	96	1.070	107	27.36	8604.7	8943.5
22-Oct-16 20:30:00	32	93	30	1.037	252	37	94	1.160	47	27.38	8605.6	8944.7
22-Oct-16 20:45:00	32	94	30	1.040	252	38	95	1.043	126	27.39	8606.7	8945.8
22-Oct-16 21:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 21:00:00	32	93	30	1.051	251	37	96	1.138	80	27.40	8607.9	8947.0
22-Oct-16 21:15:00	32	93	30	1.009	260	38	97	1.034	98	27.41	8608.7	8948.1
22-Oct-16 21:30:00	32	93	30	1.046	252	37	96	1.105	81	27.42	8609.7	8949.3
22-Oct-16 21:45:00	32	95	30	1.040	251	38	95	0.920	175	27.43	8610.9	8950.4
22-Oct-16 22:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 22:00:00	32	93	30	1.048	250	37	95	1.087	105	27.44	8611.8	8951.6
22-Oct-16 22:15:00	32	93	30	1.032	253	37	98	1.074	102	27.46	8612.8	8952.8
22-Oct-16 22:30:00	Slug at surface.											
22-Oct-16 22:30:00	32	94	29	1.035	251	37	99	1.056	103	27.47	8613.7	8954.1
22-Oct-16 22:45:00	32	93	29	1.000	274	37	103	1.214	81	27.48	8614.7	8955.4
22-Oct-16 23:00:00	Water sample from VX=Electrical Conductivity=55.68 mS@20.7degC,Water Density=1015.1kg/m3@Deg24.5C, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-198.1mV2, Salinity=27000ppm.											
22-Oct-16 23:00:00	BSW 100% no solids, H2S 6ppm, CO2 4%, Gas SG 0.640.											
22-Oct-16 23:00:00	Checked for carry over on barton scrubbers.											
22-Oct-16 23:00:00	32	95	29	1.098	240	37	91	1.030	97	27.49	8615.8	8956.6
22-Oct-16 23:15:00	32	94	29	1.020	258	36	96	1.111	119	27.50	8616.7	8957.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
22-Oct-16 23:30:00	32	94	28	1.054	250	36	94	1.043	107	27.51	8617.7	8958.5
22-Oct-16 23:45:00	32	94	28	1.042	253	36	101	1.214	59	27.52	8618.7	8959.4
23-Oct-16 00:00:00	Slug at surface.											
23-Oct-16 00:00:00	32	90	28	1.040	240	35	93	1.018	105	27.54	8619.6	8960.3
23-Oct-16 00:05:00	Checked for carry over on barton scrubbers.											
23-Oct-16 00:15:00	32	99	28	1.038	267	36	100	1.190	69	27.55	8620.6	8961.5
23-Oct-16 00:30:00	32	92	28	1.061	247	35	98	1.085	98	27.56	8621.6	8962.6
23-Oct-16 00:45:00	32	93	28	1.056	255	35	96	1.157	74	27.57	8622.6	8963.8
23-Oct-16 01:00:00	32	93	27	1.043	251	35	98	1.185	58	27.58	8623.5	8964.9
23-Oct-16 01:12:00	Checked for carry over on barton scrubbers.											
23-Oct-16 01:15:00	32	93	27	1.050	256	36	94	1.071	87	27.59	8624.5	8966.1
23-Oct-16 01:30:00	32	92	27	1.041	260	36	98	1.061	117	27.60	8625.6	8967.2
23-Oct-16 01:45:00	32	94	27	1.051	250	35	98	0.984	145	27.62	8626.4	8968.4
23-Oct-16 02:00:00	32	93	27	1.046	251	35	93	1.028	111	27.63	8627.3	8969.5
23-Oct-16 02:02:00	Checked for carry over on barton scrubbers.											
23-Oct-16 02:15:00	32	94	27	1.039	252	35	97	1.056	109	27.64	8628.5	8970.7
23-Oct-16 02:30:00	32	92	27	1.045	255	35	96	1.042	122	27.65	8629.5	8971.8
23-Oct-16 02:45:00	32	93	27	1.044	256	35	95	1.091	109	27.66	8630.4	8973.0
23-Oct-16 03:00:00	Checked for carry over on barton scrubbers.											
23-Oct-16 03:00:00	32	94	27	1.046	253	35	94	1.171	67	27.67	8631.4	8974.1
23-Oct-16 03:15:00	32	93	27	1.039	253	35	97	1.057	122	27.68	8632.4	8975.3
23-Oct-16 03:30:00	32	93	27	1.051	250	36	91	1.136	65	27.70	8633.3	8976.4
23-Oct-16 03:45:00	32	94	27	1.044	252	36	94	1.088	86	27.71	8634.2	8977.6
23-Oct-16 04:00:00	32	93	27	1.045	251	36	98	1.153	76	27.72	8635.1	8978.7
23-Oct-16 04:03:00	Checked for carry over on barton scrubbers.											
23-Oct-16 04:15:00	32	94	27	1.033	254	36	95	1.169	56	27.73	8636.1	8979.9
23-Oct-16 04:30:00	32	94	27	1.047	248	35	95	1.177	57	27.74	8637.2	8981.0
23-Oct-16 04:45:00	32	95	27	1.054	248	35	93	1.050	106	27.75	8638.4	8982.2
23-Oct-16 05:00:00	Water sample from VX=Electrical Conductivity=51.37mS@20.5degC,Water Density=1015.8kg/m3@Deg22.3C, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-182.3mV2, Salinity=27000ppm.											
23-Oct-16 05:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.640.											
23-Oct-16 05:00:00	32	92	27	1.048	258	35	97	1.217	55	27.76	8639.3	8983.3
23-Oct-16 05:01:00	Checked for carry over on barton scrubbers.											
23-Oct-16 05:15:00	32	94	27	1.042	252	35	94	1.031	117	27.78	8640.5	8984.4
23-Oct-16 05:30:00	32	94	27	1.050								8985.4
23-Oct-16 05:39:00	WHP dropping, well slugging. Raise Orifice Plate.											
23-Oct-16 05:39:00	End of MP.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
23-Oct-16 05:40:00	Slug at surface, collect sample.											
23-Oct-16 05:45:00	32	79	26		214	35	76	0.886	84	27.80	8642.4	8986.4
23-Oct-16 05:49:00	Slug sample results BSW 100% no solids.											
23-Oct-16 06:00:00	32	106	27		304	37	118	1.443	75	27.81	8643.9	8987.5
23-Oct-16 06:15:00	32	100	27		242	36	93	1.274	6	27.82	8645.0	8988.6
23-Oct-16 06:30:00	32	97	27		257	35	95	1.157	81	27.83	8646.0	8989.8
23-Oct-16 06:45:00	32	94	27		247	36	91	1.106	74	27.84	8646.9	8990.9
23-Oct-16 07:00:00	32	94	27		256	36	97	1.197	61	27.85	8647.7	8992.1
23-Oct-16 07:10:00	Pumped 64.63 bbls from tank to pond.											
23-Oct-16 07:15:00	32	95	27		246	37	94	1.167	48	27.86	8648.7	8993.1
23-Oct-16 07:30:00	32	95	27		248	36	98	0.973	142	27.88	8649.7	8994.1
23-Oct-16 07:45:00	32	95	27		250	36	96	1.122	67	27.89	8650.6	8995.1
23-Oct-16 08:00:00	32	94	27		249	36	95	1.048	114	27.90	8651.8	8996.1
23-Oct-16 08:15:00	32	93	28		250	37	95	1.129	72	27.91	8652.7	8997.3
23-Oct-16 08:30:00	32	94	28		251	37	97	1.039	134	27.92	8653.8	8998.6
23-Oct-16 08:45:00	32	94	28		248	37	94	1.078	101	27.93	8654.8	8999.9
23-Oct-16 09:00:00	32	93	28		250	38	94	0.976	118	27.94	8655.7	9001.1
23-Oct-16 09:15:00	32	94	29		255	39	98	1.191	63	27.95	8656.8	9002.2
23-Oct-16 09:30:00	32	94	30		254	40	94	1.016	118	27.97	8657.9	9003.2
23-Oct-16 09:45:00	32	95	31		245	40	92	0.951	141	27.98	8659.0	9004.2
23-Oct-16 10:00:00	32	95	31		246	40	97	1.121	83	27.99	8660.1	9005.3
23-Oct-16 10:15:00	32	95	32		245	41	93	1.178	38	28.00	8661.0	9006.3
23-Oct-16 10:30:00	32	94	32		248	41	95	1.041	97	28.01	8661.9	9007.3
23-Oct-16 10:45:00	32	95	33		246	41	95	1.047	101	28.02	8662.9	9008.4
23-Oct-16 11:00:00	32	95	33		245	42	97	1.088	88	28.03	8663.9	9009.4
23-Oct-16 11:05:00	Lowered orifice plate, carrier got jammed in Canalta.											
23-Oct-16 11:10:00	Bypassed separator to flare, bled off separator pressure.											
23-Oct-16 11:14:00	Removed jammed carrier.											
23-Oct-16 11:15:00	32	29	33		252	42	98	1.115	86	28.04	8664.9	9010.3
23-Oct-16 11:26:00	Passed flow back through separator.											
23-Oct-16 11:27:00	Drained liquid trap at base of flare stack.											
23-Oct-16 11:30:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.638.											
23-Oct-16 11:30:00	32	100	33		249	42	94	0.964	145	28.05	8666.1	9011.2
23-Oct-16 11:45:00	32	99	34		249	42	96	1.078	92	28.07	8667.1	9012.2
23-Oct-16 12:00:00	32	102	34		248	43	94	1.126	55	28.08	8668.1	9013.1
23-Oct-16 12:15:00	32	100	35		250	43	97	1.181	51	28.09	8668.9	9014.2
23-Oct-16 12:30:00	32	102	35		250	43	98	1.070	117	28.10	8670.1	9015.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
23-Oct-16 12:45:00	32	101	36		244	43	97	1.031	115	28.11	8671.1	9016.4
23-Oct-16 13:00:00	Weekley safety meeting.											
23-Oct-16 13:00:00	32	100	36		247	44	98	0.951	155	28.12	8672.0	9017.5
23-Oct-16 13:15:00	32	94	37		253	44	97	0.985	150	28.13	8673.1	9018.5
23-Oct-16 13:30:00	32	97	37		249	44	99	1.018	130	28.14	8674.1	9019.6
23-Oct-16 13:45:00	32	96	37		254	43	99	0.992	139	28.16	8675.2	9020.7
23-Oct-16 14:00:00	MP on 32/64" Fixed Choke.											
23-Oct-16 14:00:00	Lowered 1.75" Orifice Plate.											
23-Oct-16 14:00:00	32	95	37		252	44	98	1.055	120	28.17	8676.3	9021.8
23-Oct-16 14:15:00	32	96	37	1.043	251	44	95	1.230	29	28.18	8677.3	9023.0
23-Oct-16 14:30:00	32	96	38	1.052	253	44	95	1.036	118	28.19	8678.6	9024.1
23-Oct-16 14:45:00	32	95	38	1.036	251	44	100	1.206	58	28.20	8679.7	9025.3
23-Oct-16 15:00:00	32	97	38	1.049	252	43	96	1.063	98	28.21	8680.8	9026.4
23-Oct-16 15:15:00	32	95	38	1.036	262	43	100	1.065	124	28.22	8681.7	9027.5
23-Oct-16 15:20:00	Well slugging, raise orifice plate.											
23-Oct-16 15:20:00	End of MP.											
23-Oct-16 15:30:00	32	90	38		246	43	95	0.908	184	28.23	8683.0	9028.5
23-Oct-16 15:45:00	32	92	37		256	43	99	1.117	101	28.24	8684.2	9029.5
23-Oct-16 15:58:00	Slug sample results BSW, 100% no solids.											
23-Oct-16 16:00:00	32	91	38		286	43	110	1.106	160	28.25	8685.5	9030.6
23-Oct-16 16:15:00	32	97	38		267	43	102	1.130	118	28.27	8686.9	9031.6
23-Oct-16 16:30:00	32	91	37		240	43	92	1.085	74	28.28	8687.9	9032.6
23-Oct-16 16:45:00	32	89	37		251	43	99	1.154	71	28.29	8688.9	9033.7
23-Oct-16 17:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.638.											
23-Oct-16 17:00:00	32	87	37		249	42	101	1.113	109	28.30	8690.1	9034.7
23-Oct-16 17:01:00	Water sample from VX=PH7, Electrical Conductivity=58.69mS@26.6degC,Water Density=1014.3kg/m3@Deg28.7C, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-230.4mV2, Salinity=24000ppm.											
23-Oct-16 17:15:00	32	86	37		254	41	96	1.062	99	28.31	8690.8	9035.7
23-Oct-16 17:30:00	32	86	37		251	41	100	1.117	94	28.32	8692.0	9036.8
23-Oct-16 17:45:00	32	87	36		247	40	93	1.065	85	28.33	8693.1	9037.8
23-Oct-16 18:00:00	32	86	36		254	40	98	1.036	119	28.34	8694.3	9038.8
23-Oct-16 18:15:00	32	87	35		253	40	94	1.002	111	28.35	8695.3	9040.0
23-Oct-16 18:30:00	32	86	35		248	39	95	1.048	117	28.36	8696.2	9041.1
23-Oct-16 18:45:00	32	87	34		246	39	97	1.117	85	28.38	8697.5	9042.3
23-Oct-16 19:00:00	32	87	34		254	39	96	0.997	156	28.39	8698.5	9043.4
23-Oct-16 19:15:00	32	87	33		253	39	96	1.337	0	28.40	8699.6	9044.6
23-Oct-16 19:30:00	32	87	33		252	39	97	1.032	131	28.41	8700.7	9045.7
23-Oct-16 19:45:00	32	86	33		254	39	97	1.011	140	28.42	8701.8	9046.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
23-Oct-16 19:55:00	Well slugging, monitoring pressures.											
23-Oct-16 20:00:00	Slug BSW, 100% no solids.											
23-Oct-16 20:00:00	32	74	32		196	39	69	0.781	100	28.43	8702.9	9048.0
23-Oct-16 20:15:00	32	106	34		323	40	123	1.268	157	28.44	8704.8	9049.3
23-Oct-16 20:30:00	32	100	33		269	40	105	1.290	57	28.46	8705.7	9050.6
23-Oct-16 20:45:00	32	88	32		251	39	100	1.112	89	28.47	8706.5	9051.8
23-Oct-16 21:00:00	32	89	32		249	38	96	1.061	90	28.48	8707.5	9053.1
23-Oct-16 21:15:00	32	85	32		254	38	95	1.070	113	28.49	8708.4	9054.1
23-Oct-16 21:30:00	32	87	31		256	38	97	0.994	156	28.50	8709.4	9055.2
23-Oct-16 21:45:00	32	86	31		249	38	94	1.132	78	28.51	8710.2	9056.2
23-Oct-16 22:00:00	Pumped 62.56 bbls to the pond.											
23-Oct-16 22:00:00	32	85	31		254	38	97	1.050	122	28.53	8711.1	9057.2
23-Oct-16 22:15:00	32	85	31		253	38	95	1.129	80	28.54	8712.1	9058.0
23-Oct-16 22:30:00	32	85	30		250	37	95	1.217	37	28.55	8713.1	9058.9
23-Oct-16 22:45:00	32	85	30		246	37	92	1.075	102	28.56	8714.2	9059.7
23-Oct-16 23:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.638.											
23-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=52.92mS@21.9degC,Water Density=1015.2kg/m3@Deg24.4C, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-215.1mV2, Salinity=21000ppm.											
23-Oct-16 23:00:00	32	88	30		262	37	99	1.047	136	28.57	8715.3	9060.5
23-Oct-16 23:15:00	32	84	30		249	37	96	1.064	114	28.58	8716.5	9061.7
23-Oct-16 23:30:00	32	85	30		254	37	95	1.172	66	28.59	8717.6	9063.0
23-Oct-16 23:45:00	32	85	30		254	37	97	1.139	92	28.61	8718.5	9064.3
24-Oct-16 00:00:00	32	85	30		250	37	97	1.113	82	28.62	8719.4	9065.5
24-Oct-16 00:15:00	32	84	29		250	37	94	1.104	82	28.63	8720.5	9066.6
24-Oct-16 00:30:00	32	85	29		254	37	95	1.124	74	28.64	8721.5	9067.6
24-Oct-16 00:45:00	32	86	29		250	37	94	0.961	168	28.65	8722.6	9068.6
24-Oct-16 01:00:00	32	84	29		248	37	93	1.084	92	28.66	8723.7	9069.7
24-Oct-16 01:15:00	32	85	29		258	37	96	1.043	127	28.67	8724.8	9070.7
24-Oct-16 01:30:00	32	86	29		251	37	92	0.977	145	28.68	8725.8	9071.7
24-Oct-16 01:45:00	32	86	29		250	37	92	1.018	113	28.70	8726.8	9072.8
24-Oct-16 02:00:00	32	86	29		251	37	95	1.107	94	28.71	8727.9	9073.8
24-Oct-16 02:15:00	32	85	29		249	37	99	1.153	71	28.72	8728.9	9074.8
24-Oct-16 02:30:00	32	86	29		249	37	95	1.216	39	28.73	8729.9	9075.9
24-Oct-16 02:45:00	32	85	29		254	37	98	1.168	86	28.74	8730.7	9076.9
24-Oct-16 03:00:00	32	86	29		253	37	93	1.163	66	28.75	8731.8	9077.9
24-Oct-16 03:15:00	32	84	29		254	37	96	1.045	112	28.76	8732.7	9079.1
24-Oct-16 03:30:00	32	85	29		256	37	93	1.030	128	28.78	8733.7	9080.2
24-Oct-16 03:45:00	32	85	29		253	37	94	1.121	85	28.79	8734.6	9081.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
24-Oct-16 04:00:00	32	85	29		258	37	95	1.157	77	28.80	8735.6	9082.5
24-Oct-16 04:15:00	32	84	28		253	36	95	0.946	156	28.81	8736.6	9083.6
24-Oct-16 04:30:00	32	85	28		254	36	93	1.149	71	28.82	8737.6	9084.6
24-Oct-16 04:45:00	32	86	28		249	36	96	1.204	58	28.83	8738.8	9085.6
24-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
24-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=52.47mS@21.4degC,Water Density=1015.2kg/m3@Deg23.8C, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-207.4mV2, Salinity=21000ppm.											
24-Oct-16 05:00:00	32	86	28		251	36	93	1.073	104	28.84	8739.9	9086.7
24-Oct-16 05:15:00	32	86	28		253	36	94	1.046	109	28.85	8740.8	9087.6
24-Oct-16 05:30:00	MP on 32/64" Fixed Choke.											
24-Oct-16 05:30:00	Lowered 1.750" Orifice Plate.											
24-Oct-16 05:30:00	32	85	28									9088.5
24-Oct-16 05:45:00	32	86	27	1.024	249	36	97	1.089	84	28.88	8742.7	9089.4
24-Oct-16 06:00:00	32	85	28	1.028	251	36	90	1.143	43	28.89	8743.4	9090.4
24-Oct-16 06:08:56	Checked for carry over on barton scrubbers.											
24-Oct-16 06:15:00	32	85	27	1.012	249	36	93	1.156	62	28.90	8744.2	9091.5
24-Oct-16 06:30:00	32	85	27	1.022	248	36	95	1.125	93	28.91	8745.2	9092.7
24-Oct-16 06:45:00	32	85	28	1.027	246	37	97	1.096	84	28.92	8746.1	9093.8
24-Oct-16 06:53:46	Checked for carry over on barton scrubbers.											
24-Oct-16 07:00:00	32	85	28	1.008	253	37	95	1.083	103	28.93	8747.2	9095.0
24-Oct-16 07:15:00	32	85	28	1.029	248	37	94	0.956	161	28.94	8748.3	9096.0
24-Oct-16 07:30:00	32	85	29	1.020	248	38	92	1.120	70	28.96	8749.3	9097.0
24-Oct-16 07:45:00	32	86	29	1.035	248	38	95	0.999	137	28.97	8750.3	9098.1
24-Oct-16 07:55:08	Checked for carry over on barton scrubbers.											
24-Oct-16 08:00:00	32	85	29	1.018	249	38	93	1.056	103	28.98	8751.4	9099.1
24-Oct-16 08:15:00	32	85	30	1.019	251	39	95	1.079	95	28.99	8752.3	9100.3
24-Oct-16 08:30:00	32	85	30	1.016	255	39	96	1.105	96	29.00	8753.3	9101.4
24-Oct-16 08:31:17	Checked for carry over on barton scrubbers.											
24-Oct-16 08:45:00	32	86	31	1.007	253	40	95	1.271	25	29.01	8754.2	9102.6
24-Oct-16 08:57:20	Checked for carry over on barton scrubbers.											
24-Oct-16 09:00:00	32	86	31	1.017	251	40	95	1.187	49	29.02	8755.2	9103.7
24-Oct-16 09:15:00	32	85	32	1.018	250	40	94	1.159	42	29.03	8756.1	9104.7
24-Oct-16 09:30:00	32	85	32	1.016	249	41	93	1.001	129	29.05	8757.1	9105.8
24-Oct-16 09:30:07	Checked for carry over on barton scrubbers.											
24-Oct-16 09:45:00	32	86	33	0.995	249	41	100	1.151	79	29.06	8758.1	9106.8
24-Oct-16 10:00:00	32	86	33	1.014	251	42	96	1.069	85	29.07	8759.1	9107.8
24-Oct-16 10:00:06	Checked for carry over on barton scrubbers.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
24-Oct-16 10:15:00	32	87	34	1.001	247	42	96	1.044	110	29.08	8760.3	9108.9
24-Oct-16 10:30:00	32	86	34	1.013	250	42	93	1.073	91	29.09	8761.3	9109.9
24-Oct-16 10:45:00	32	88	35	1.006	247	43	102	1.245	29	29.10	8762.1	9110.9
24-Oct-16 10:57:52	Checked for carry over on barton scrubbers.											
24-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4% Gas SG 0.640.											
24-Oct-16 11:00:00	32	86	35	1.002	247	43	95	1.055	80	29.11	8763.0	9112.0
24-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=57.96mS@25.5degC,Water Density=1014.2kg/m3@27.9DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-230mV2, Salinity=20000ppm.											
24-Oct-16 11:10:00	Pumped 51.6 bbl from tank to pond.											
24-Oct-16 11:15:00	32	86	36	1.009	249	43	96	0.984	138	29.12	8764.0	9112.9
24-Oct-16 11:30:00	32	87	36	1.011	250	44	98	0.995	144	29.13	8765.0	9113.9
24-Oct-16 11:32:08	Checked for carry over on barton scrubbers.											
24-Oct-16 11:45:00	32	87	36	1.009	246	44	94	1.003	137	29.15	8766.0	9114.8
24-Oct-16 11:59:07	Checked for carry over on barton scrubbers.											
24-Oct-16 12:00:00	32	87	37	1.014	243	44	94	0.998	116	29.16	8767.0	9115.7
24-Oct-16 12:15:00	32	86	37	1.004	252	44	97	1.048	117	29.17	8768.2	9116.7
24-Oct-16 12:30:00	32	87	37	1.014	248	44	95	1.100	85	29.18	8769.3	9117.6
24-Oct-16 12:30:20	Checked for carry over on barton scrubbers.											
24-Oct-16 12:45:00	32	89	38	0.996	247	44	93	1.024	113	29.19	8770.6	9118.5
24-Oct-16 13:00:00	32	86	38	1.008	247	45	100	0.872	222	29.20	8771.7	9119.4
24-Oct-16 13:01:09	Checked for carry over on barton scrubbers.											
24-Oct-16 13:15:00	32	87	38	0.996	254	45	96	0.911	175	29.21	8773.0	9120.8
24-Oct-16 13:30:00	32	89	39	1.016	246	45	93	1.038	91	29.22	8774.0	9122.2
24-Oct-16 13:45:00	32	88	39	1.010	250	45	95	1.015	120	29.23	8775.2	9123.6
24-Oct-16 14:00:00	32	88	39	1.014	256	45	98	1.087	100	29.24	8776.1	9124.9
24-Oct-16 14:01:57	Checked for carry over on barton scrubbers.											
24-Oct-16 14:15:00	32	90	39	1.004	247	45	94	1.083	89	29.26	8777.2	9126.0
24-Oct-16 14:30:00	32	89	39	1.011	250	45	97	1.139	71	29.27	8778.4	9127.0
24-Oct-16 14:45:00	32	90	39	1.013	248	45	96	0.968	147	29.28	8779.6	9128.0
24-Oct-16 15:00:00	32	89	39	1.020	246	44	92	1.038	110	29.29	8781.0	9129.1
24-Oct-16 15:06:24	Checked for carry over on barton scrubbers.											
24-Oct-16 15:15:00	32	89	39	1.007	245	44	97	1.040	119	29.30	8782.0	9130.3
24-Oct-16 15:30:00	32	89	39	1.007	253	44	97	1.022	130	29.31	8783.2	9131.6
24-Oct-16 15:45:00	32	88	39	1.005	252	44	97	1.040	98	29.32	8784.2	9132.9
24-Oct-16 16:00:00	VX water port plugged with debris. Used enerpac pump to clear port.											
24-Oct-16 16:00:00	32	90	39	1.005	246	44	96	0.952	151	29.33	8785.3	9134.1
24-Oct-16 16:05:00	Flushed VX water port to remove all debris.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
24-Oct-16 16:08:03	Checked for carry over on barton scrubbers.											
24-Oct-16 16:15:00	32	88	39	1.001	251	44	96	1.067	108	29.34	8786.3	9134.7
24-Oct-16 16:30:00	32	89	39	1.002	255	44	97	1.149	64	29.35	8787.3	9135.3
24-Oct-16 16:45:00	32	89	39	1.013	249	43	95	1.053	109	29.36	8788.4	9135.9
24-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
24-Oct-16 17:00:00	Water sample from VX: ph=7, Electrical Conductivity=61.05mS@28.5degC,Water Density=1013.8kg/m3@30.5DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-236.5mV2, Salinity=19000ppm.											
24-Oct-16 17:00:00	32	89	39	0.994	249	43	97	1.021	119	29.38	8789.4	9136.4
24-Oct-16 17:15:00	32	89	38	1.006	247	42	96	1.003	133	29.39	8790.3	9137.5
24-Oct-16 17:20:57	WHP started to spike.											
24-Oct-16 17:30:00	32	89	38	0.976	246	42	100	1.083	112	29.40	8791.6	9138.5
24-Oct-16 17:45:00	32	92	38	1.036	242	41	94	1.066	99	29.41	8792.8	9139.5
24-Oct-16 17:48:47	Opened barton bypass to protect it whilst WHP stabalises.											
24-Oct-16 18:00:00	32	89	38	0.822	258	41	99	1.163	77	29.42	8793.7	9140.6
24-Oct-16 18:15:00	32	89	37	1.024	249	41	97	1.067	123	29.43	8794.8	9141.7
24-Oct-16 18:30:00	32	90	37	1.007	253	40	98	1.015	136	29.44	8795.9	9142.9
24-Oct-16 18:45:00	32	89	36	1.018	244	40	96	1.019	111	29.45	8797.0	9144.0
24-Oct-16 18:55:00	Checked for carry over on barton scrubbers.											
24-Oct-16 19:00:00	32	89	35	1.015	251	40	98	0.977	141	29.46	8798.1	9145.2
24-Oct-16 19:15:00	32	89	35	1.017	248	40	97	1.035	121	29.47	8799.1	9146.3
24-Oct-16 19:30:00	32	88	34	1.025	248	39	100	1.001	144	29.49	8800.2	9147.5
24-Oct-16 19:45:00	32	88	34	1.021	251	39	100	1.024	151	29.50	8801.2	9148.6
24-Oct-16 20:00:00	32	90	33	1.026	252	39	96	1.081	98	29.51	8802.4	9149.8
24-Oct-16 20:04:00	Checked for carry over on barton scrubbers.											
24-Oct-16 20:15:00	32	89	33	1.028	253	39	96	1.119	81	29.52	8803.3	9150.9
24-Oct-16 20:30:00	WHP started to spike, monitoring barton.											
24-Oct-16 20:30:00	32	89	33	1.015	251	39	102	1.060	120	29.53	8804.3	9152.1
24-Oct-16 20:45:00	32	86	32	1.042	253	39	100	1.074	83	29.54	8805.3	9153.2
24-Oct-16 21:00:00	32	89	32	1.022	252	39	98	1.039	128	29.55	8806.4	9154.4
24-Oct-16 21:11:00	Checked for carry over on barton scrubbers.											
24-Oct-16 21:15:00	32	90	32	1.031	255	39	97	1.225	47	29.57	8807.4	9155.3
24-Oct-16 21:30:00	32	89	32	1.027	248	39	94	1.189	41	29.58	8808.4	9156.2
24-Oct-16 21:45:00	32	88	32	1.031	255	39	96	1.034	139	29.59	8809.5	9157.1
24-Oct-16 22:00:00	32	88	32	1.029	249	39	96	1.122	57	29.60	8810.3	9158.1
24-Oct-16 22:04:00	Checked for carry over on barton scrubbers.											
24-Oct-16 22:15:00	32	89	32	1.007	250	39	97	0.992	142	29.61	8811.3	9159.1
24-Oct-16 22:30:00	32	88	32	1.006	257	39	96	1.135	82	29.62	8812.1	9160.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
24-Oct-16 22:45:00	32	88	32	1.006	252	38	94	1.050	92	29.63	8813.0	9161.2
24-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=55.6mS@24.0degC,Water Density=1014.8kg/m3@25.9DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-207.5mV2, Salinity=14000ppm.											
24-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
24-Oct-16 23:00:00	32	89	31	1.005	249	38	93	1.012	121	29.65	8814.0	9162.2
24-Oct-16 23:06:00	Checked for carry over on barton scrubbers.											
24-Oct-16 23:15:00	32	88	31	1.001	252	38	96	1.124	83	29.66	8815.0	9163.2
24-Oct-16 23:30:00	32	87	31	1.002	253	38	96	0.990	120	29.67	8816.0	9164.3
24-Oct-16 23:45:00	32	89	31	1.002	253	38	95	1.211	44	29.68	8817.1	9165.3
25-Oct-16 00:00:00	32	89	31	1.008	248	38	94	1.121	77	29.69	8818.2	9166.3
25-Oct-16 00:11:00	Checked for carry over on barton scrubbers.											
25-Oct-16 00:15:00	32	89	31	1.000	247	38	96	1.075	98	29.70	8819.0	9167.4
25-Oct-16 00:30:00	32	88	31	1.007	257	38	97	1.038	139	29.71	8819.9	9168.4
25-Oct-16 00:45:00	32	87	31	1.009	251	38	95	1.039	123	29.73	8820.9	9169.4
25-Oct-16 01:00:00	Pumped 61.64 bbls from tank to the pond.											
25-Oct-16 01:00:00	32	88	31	1.010	252	38	95	1.092	103	29.74	8822.0	9170.5
25-Oct-16 01:03:00	Checked for carry over on barton scrubbers.											
25-Oct-16 01:15:00	32	88	31	0.971	256	38	97	1.170	60	29.75	8823.0	9171.5
25-Oct-16 01:30:00	32	87	31	0.973	246	38	92	1.048	107	29.76	8824.1	9172.5
25-Oct-16 01:45:00	32	88	31	0.973	254	38	96	1.053	110	29.77	8825.1	9173.6
25-Oct-16 02:00:00	32	88	31	0.973	245	38	92	1.074	100	29.78	8826.1	9174.6
25-Oct-16 02:15:00	32	89	31	0.969	252	38	96	1.177	62	29.79	8827.1	9175.8
25-Oct-16 02:30:00	32	90	31	0.974	253	38	97	1.215	50	29.80	8828.1	9176.9
25-Oct-16 02:45:00	32	88	30	0.979	251	38	95	1.234	25	29.82	8828.9	9178.1
25-Oct-16 03:00:00	32	89	30	0.980	251	38	94	1.010	132	29.83	8830.0	9179.2
25-Oct-16 03:06:00	Checked for carry over on barton scrubbers.											
25-Oct-16 03:15:00	32	90	30	0.973	250	38	93	0.968	151	29.84	8831.2	9180.3
25-Oct-16 03:30:00	32	88	30	0.981	251	38	93	0.989	115	29.85	8832.0	9181.3
25-Oct-16 03:45:00	32	88	30	0.976	258	38	95	0.966	143	29.86	8832.9	9182.3
25-Oct-16 04:00:00	32	89	30	0.982	248	38	92	1.042	88	29.87	8833.8	9183.4
25-Oct-16 04:05:00	Checked for carry over on barton scrubbers.											
25-Oct-16 04:06:00	WHP dropping, slug coming.											
25-Oct-16 04:07:00	Lifted 1.750" orifice plate											
25-Oct-16 04:07:00	End of MP.											
25-Oct-16 04:15:00	32	82	30		273	38	103	1.042	140	29.88	8834.7	9184.4
25-Oct-16 04:30:00	32	96	30		263	38	99	1.325	14	29.90	8835.9	9185.4
25-Oct-16 04:45:00	32	89	30		246	38	90	1.072	78	29.91	8836.7	9186.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
25-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
25-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.3mS@22.2degC,Water Density=1015.4kg/m3@24.0DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-219.0mV2, Salinity=14000ppm.											
25-Oct-16 05:00:00	32	91	30		252	37	97	1.156	67	29.92	8837.5	9187.5
25-Oct-16 05:15:00	32	86	29		249	37	92	0.980	120	29.93	8838.4	9188.4
25-Oct-16 05:30:00	32	89	29									9189.3
25-Oct-16 05:45:00	32	89	29		249	37	98	1.167	77	29.95	8840.3	9190.3
25-Oct-16 06:00:00	32	89	29		252	38	94	1.058	115	29.96	8841.3	9191.2
25-Oct-16 06:15:00	32	90	29		249	38	93	1.101	80	29.97	8842.2	9192.2
25-Oct-16 06:30:00	32	89	30		249	38	95	1.088	87	29.98	8843.2	9193.3
25-Oct-16 06:45:00	32	89	30		249	38	94	1.016	129	30.00	8844.2	9194.3
25-Oct-16 07:00:00	32	88	30		249	39	92	1.070	93	30.01	8845.1	9195.3
25-Oct-16 07:15:00	32	89	31		246	39	96	1.156	64	30.02	8846.0	9196.1
25-Oct-16 07:30:00	32	90	31		244	40	93	1.200	22	30.03	8847.0	9196.9
25-Oct-16 07:45:00	32	89	32		249	40	92	1.155	45	30.04	8847.9	9197.7
25-Oct-16 08:00:00	Gas SG 0.642.											
25-Oct-16 08:00:00	32	89	32		249	41	95	0.990	133	30.05	8848.9	9198.5
25-Oct-16 08:15:00	32	89	33		244	41	91	1.048	91	30.06	8849.9	9199.4
25-Oct-16 08:20:00	Flush out barton liners.											
25-Oct-16 08:30:00	32	90	34		245	42	95	1.118	72	30.07	8850.8	9200.3
25-Oct-16 08:40:00	Barton back online.											
25-Oct-16 08:45:00	32	89	34		247	42	94	1.093	75	30.09	8851.9	9201.1
25-Oct-16 09:00:00	Lowered 1.75" plate, plate carrier jammed.											
25-Oct-16 09:00:00	32	92	35		246	43	93	1.061	100	30.10	8852.9	9202.0
25-Oct-16 09:03:00	By-passed separaor, bled off pressure.											
25-Oct-16 09:11:00	Remove jammed carrier, inspect teeth and carrier.											
25-Oct-16 09:15:00	32	13	34		250	43	96	1.055	110	30.11	8854.0	9202.9
25-Oct-16 09:30:00	32	13	33		243	43	97	1.073	98	30.12	8855.1	9203.7
25-Oct-16 09:31:00	Passed flow back through separator.											
25-Oct-16 09:45:00	32	101	35		245	43	95	1.117	63	30.13	8855.8	9204.6
25-Oct-16 10:00:00	VSAT down for maintenance.											
25-Oct-16 10:00:00	32	101	36		244	43	92	1.125	59	30.14	8856.9	9205.4
25-Oct-16 10:12:00	Attemped to lower 1.75" plate, plate jammed.											
25-Oct-16 10:15:00	32	102	37		244	44	96	1.082	73	30.15	8857.9	9206.3
25-Oct-16 10:18:00	By-passed separator and bled off.											
25-Oct-16 10:25:00	Remove jammed plate carrier.											
25-Oct-16 10:25:00	Passed flow back through separator.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
25-Oct-16 10:30:00	32	13	35		244	44	95	1.115	66	30.16	8858.9	9207.2
25-Oct-16 10:42:00	Powered down genarator for service, TDA running on UPS.											
25-Oct-16 10:45:00	32	98	37		242	44	94	1.069	94	30.17	8860.1	9208.0
25-Oct-16 11:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.642.											
25-Oct-16 11:00:00	32	98	38		249	44	94	1.137	56	30.18	8861.2	9208.9
25-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=61.07mS@27.9degC,Water Density=1013.7kg/m3@30.7DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-247.4mV2, Salinity=36000ppm.											
25-Oct-16 11:15:00	Genarator back up and running, off of UPS.											
25-Oct-16 11:15:00	32	99	38		248	45	95	0.995	118	30.20	8862.2	9209.8
25-Oct-16 11:30:00	32	99	39		248	45	95	1.101	76	30.21	8863.2	9210.6
25-Oct-16 11:45:00	32	100	39		249	45	96	0.980	121	30.22	8864.3	9211.5
25-Oct-16 12:00:00	VSAT back up and running.											
25-Oct-16 12:00:00	32	99	39		246	45	92	0.993	120	30.23	8865.2	9212.3
25-Oct-16 12:15:00	32	99	39		243	45	99	1.023	113	30.24	8866.1	9213.4
25-Oct-16 12:30:00	32	95	39		244	45	95	0.967	148	30.25	8867.3	9214.4
25-Oct-16 12:45:00	32	95	40		250	45	97	1.109	87	30.26	8868.2	9215.4
25-Oct-16 13:00:00	32	96	40		242	45	94	1.072	77	30.27	8869.3	9216.5
25-Oct-16 13:15:00	32	96	40		245	45	98	0.897	193	30.28	8870.4	9217.6
25-Oct-16 13:30:00	32	97	41		244	45	93	1.074	92	30.29	8871.5	9218.8
25-Oct-16 13:45:00	32	96	40		246	45	96	1.136	77	30.30	8872.8	9219.9
25-Oct-16 14:00:00	Gas SG 0.642.											
25-Oct-16 14:00:00	32	98	41		250	45	97	1.190	46	30.32	8873.8	9221.1
25-Oct-16 14:15:00	32	95	41		249	45	96	1.032	110	30.33	8874.9	9222.1
25-Oct-16 14:30:00	32	97	41		247	45	93	0.976	145	30.34	8875.9	9223.1
25-Oct-16 14:43:00	WHP dropping, well slugging.											
25-Oct-16 14:45:00	Slug sample results BSW= 100% no solids.											
25-Oct-16 14:45:00	32	88	41		226	45	85	0.881	124	30.35	8876.8	9224.2
25-Oct-16 15:00:00	Took ALS sample from separator. 9225 bbls, E.C 67.6mS @ 34.3degC, pH=7.											
25-Oct-16 15:00:00	32	97	41		275	45	107	1.191	103	30.36	8878.0	9225.2
25-Oct-16 15:15:00	32	90	40		230	45	98	1.098	69	30.37	8879.1	9226.0
25-Oct-16 15:30:00	32	91	40		251	45	96	1.072	83	30.38	8880.1	9226.8
25-Oct-16 15:45:00	32	90	40		244	45	98	1.006	112	30.39	8881.1	9227.6
25-Oct-16 16:00:00	32	91	40		249	45	96	1.029	113	30.40	8882.2	9228.4
25-Oct-16 16:15:00	32	90	40		243	44	97	1.186	49	30.42	8883.1	9229.5
25-Oct-16 16:30:00	32	91	40		247	44	98	0.955	169	30.43	8884.3	9230.5
25-Oct-16 16:45:00	32	91	40		242	44	98	0.989	114	30.44	8885.2	9231.5
25-Oct-16 17:00:00	BSW 100% no solids, H2S 7ppm, CO2 4%, Gas SG 0.642.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
25-Oct-16 17:00:00	32	90	40		247	43	99	1.089	97	30.45	8886.2	9232.6
25-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=62.36mS@29.2degC,Water Density=1013.7kg/m3@31.3DegC, Dissolved Oxygen=1.8%, Oxidation Reduction Potential=-240.5mV2, Salinity=36000ppm.											
25-Oct-16 17:10:00	Pumped 62.64 bbl from tank to pond.											
25-Oct-16 17:15:00	32	90	39		244	43	94	1.103	67	30.46	8887.1	9233.4
25-Oct-16 17:30:00	32	89	39		252	42	97	0.947	156	30.47	8888.2	9234.2
25-Oct-16 17:45:00	32	90	39		251	42	97	0.976	152	30.48	8889.2	9235.0
25-Oct-16 18:00:00	32	90	38		245	42	95	1.023	111	30.49	8890.1	9235.8
25-Oct-16 18:15:00	32	88	38		249	41	95	1.122	87	30.50	8891.2	9236.7
25-Oct-16 18:30:00	32	89	37		244	41	94	1.028	109	30.51	8892.5	9237.6
25-Oct-16 18:45:00	32	89	37		252	41	95	1.047	95	30.52	8893.6	9238.6
25-Oct-16 19:00:00	32	90	36		250	40	94	1.008	115	30.54	8894.7	9239.5
25-Oct-16 19:15:00	32	88	36		253	40	99	1.020	124	30.55	8896.0	9240.7
25-Oct-16 19:30:00	32	89	35		247	40	98	1.170	66	30.56	8897.0	9242.0
25-Oct-16 19:45:00	32	89	35		246	40	93	1.043	109	30.57	8897.9	9243.3
25-Oct-16 20:00:00	32	88	34		255	40	98	1.162	71	30.58	8899.1	9244.5
25-Oct-16 20:15:00	32	90	34		251	39	98	0.973	160	30.59	8900.0	9245.5
25-Oct-16 20:30:00	32	88	34		248	39	95	0.991	127	30.60	8900.9	9246.4
25-Oct-16 20:45:00	32	88	33		251	39	99	1.085	116	30.61	8901.8	9247.3
25-Oct-16 21:00:00	32	88	33		247	39	92	1.008	119	30.63	8903.0	9248.2
25-Oct-16 21:15:00	32	89	33		254	39	94	1.108	85	30.64	8904.0	9249.3
25-Oct-16 21:30:00	32	90	32		250	39	94	1.005	122	30.65	8904.9	9250.3
25-Oct-16 21:45:00	32	90	32		250	38	96	1.073	89	30.66	8905.8	9251.3
25-Oct-16 22:00:00	32	90	32		247	39	95	1.033	113	30.67	8906.7	9252.4
25-Oct-16 22:15:00	32	87	32		254	39	100	1.140	59	30.68	8907.6	9253.4
25-Oct-16 22:30:00	32	90	32		244	39	94	1.018	111	30.69	8908.4	9254.4
25-Oct-16 22:45:00	32	88	32		252	38	93	1.057	106	30.71	8909.4	9255.5
25-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
25-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.5mS@22.2degC,Water Density=1015.1kg/m3@24.9DegC, Dissolved Oxygen=2.0%, Oxidation Reduction Potential=-232.4mV2, Salinity=36000ppm.											
25-Oct-16 23:00:00	32	89	32		250	38	95	1.135	74	30.72	8910.4	9256.5
25-Oct-16 23:15:00	32	89	32		251	38	94	1.245	18	30.73	8911.2	9257.4
25-Oct-16 23:30:00	32	89	31		245	38	95	1.127	69	30.74	8912.2	9258.3
25-Oct-16 23:45:00	32	89	31		248	38	96	1.083	104	30.75	8913.1	9259.3
26-Oct-16 00:00:00	32	88	31		252	38	95	1.023	112	30.76	8914.2	9260.2
26-Oct-16 00:15:00	32	85	31		249	39	94	1.001	122	30.77	8915.2	9261.2
26-Oct-16 00:25:00	Well slugging.											
26-Oct-16 00:30:00	32	91	31		267	39	100	1.004	166	30.79	8916.3	9262.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
26-Oct-16 00:45:00	32	86	31		249	38	95	1.164	54	30.80	8917.2	9263.3
26-Oct-16 01:00:00	32	89	31		255	38	97	1.127	92	30.81	8918.0	9264.3
26-Oct-16 01:15:00	32	89	31		246	39	92	1.141	53	30.82	8919.0	9265.4
26-Oct-16 01:30:00	32	89	31		250	38	96	1.020	132	30.83	8920.1	9266.4
26-Oct-16 01:45:00	32	90	31		247	38	93	1.012	110	30.84	8921.0	9267.4
26-Oct-16 02:00:00	32	89	31		252	38	94	1.074	103	30.85	8922.0	9268.5
26-Oct-16 02:15:00	32	90	31		253	38	94	1.275	31	30.87	8923.0	9269.5
26-Oct-16 02:30:00	32	89	30		250	38	97	1.067	94	30.88	8923.8	9270.5
26-Oct-16 02:45:00	32	90	30		249	38	95	1.165	42	30.89	8924.6	9271.6
26-Oct-16 03:00:00	32	89	30		257	38	97	1.031	151	30.90	8925.6	9272.6
26-Oct-16 03:15:00	32	90	30		247	38	96	1.115	74	30.91	8926.6	9273.5
26-Oct-16 03:30:00	32	89	30		252	38	95	1.042	124	30.92	8927.6	9274.4
26-Oct-16 03:45:00	32	88	30		250	38	94	0.987	106	30.93	8928.4	9275.4
26-Oct-16 04:00:00	32	90	30		248	38	94	1.012	114	30.95	8929.3	9276.3
26-Oct-16 04:15:00	32	89	30		249	38	92	1.016	123	30.96	8930.2	9277.2
26-Oct-16 04:30:00	32	90	30		249	38	92	1.085	96	30.97	8931.3	9278.1
26-Oct-16 04:45:00	32	89	30		247	38	91	1.138	42	30.98	8932.2	9279.0
26-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=54.53mS@22degC,Water Density=1014.8kg/m3@24.3DegC, Dissolved Oxygen=1.7%, Oxidation Reduction Potential=-148.6mV2, Salinity=36000ppm.											
26-Oct-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
26-Oct-16 05:00:00	32	89	30		261	38	98	1.017	126	30.99	8933.1	9280.0
26-Oct-16 05:15:00	32	89	30		245	38	92	1.055	119	31.00	8934.2	9281.0
26-Oct-16 05:30:00	32	89	30									9282.0
26-Oct-16 05:45:00	32	88	30		245	38	100	1.034	104	31.02	8936.0	9283.1
26-Oct-16 06:00:00	32	89	30		254	38	95	1.209	43	31.03	8937.0	9284.1
26-Oct-16 06:11:00	WHP dropping, well slugging.											
26-Oct-16 06:15:00	32	84	29		240	37	89	0.960	118	31.05	8937.9	9285.1
26-Oct-16 06:30:00	32	95	30		266	38	98	1.112	127	31.06	8939.0	9286.2
26-Oct-16 06:45:00	32	87	30		247	38	92	1.099	74	31.07	8940.1	9287.2
26-Oct-16 07:00:00	32	91	30		245	39	93	1.178	45	31.08	8941.0	9288.2
26-Oct-16 07:15:00	32	90	31		244	40	96	0.974	151	31.09	8942.0	9289.2
26-Oct-16 07:30:00	32	89	32		244	40	93	1.003	103	31.10	8942.9	9290.1
26-Oct-16 07:45:00	32	90	32		251	41	94	1.107	73	31.11	8943.7	9291.0
26-Oct-16 08:00:00	Gas SG 0.642.											
26-Oct-16 08:00:00	32	90	33		239	41	95	1.031	109	31.12	8945.0	9291.9
26-Oct-16 08:10:00	Pumped 59.95 bbls from tank to pond.											
26-Oct-16 08:15:00	32	91	34		242	42	94	1.105	56	31.13	8946.2	9292.5
26-Oct-16 08:30:00	32	90	34		245	42	94	0.971	135	31.15	8947.2	9293.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
26-Oct-16 08:45:00	32	89	35		250	42	95	1.084	98	31.16	8948.1	9293.8
26-Oct-16 09:00:00	32	90	35		248	42	93	1.108	73	31.17	8949.0	9294.4
26-Oct-16 09:15:00	32	90	35		248	42	92	1.098	78	31.18	8950.2	9295.6
26-Oct-16 09:30:00	32	91	36		247	43	92	1.079	66	31.19	8951.2	9296.9
26-Oct-16 09:45:00	32	91	36		250	43	95	1.099	89	31.20	8952.3	9298.2
26-Oct-16 10:00:00	32	90	37		243	44	92	1.084	84	31.21	8953.3	9299.4
26-Oct-16 10:15:00	32	91	37		245	44	94	1.006	114	31.22	8954.2	9300.2
26-Oct-16 10:30:00	32	91	37		239	44	98	1.216	20	31.23	8955.3	9301.0
26-Oct-16 10:45:00	32	90	38		245	44	96	1.018	131	31.24	8956.7	9301.8
26-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
26-Oct-16 11:00:00	32	92	38		243	44	97	1.051	115	31.25	8957.8	9302.6
26-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=64.36mS@29degC,Water Density=1013.1kg/m3@30DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-187.2mV2.											
26-Oct-16 11:15:00	32	91	38		243	45	94	1.100	60	31.27	8958.9	9303.5
26-Oct-16 11:30:00	32	90	39		243	46	93	0.907	169	31.28	8960.1	9304.3
26-Oct-16 11:45:00	32	89	39		250	46	95	1.170	36	31.29	8960.9	9305.1
26-Oct-16 12:00:00	32	91	39		245	43	95	0.994	120	31.30	8962.0	9305.9
26-Oct-16 12:15:00	32	91	39		248	45	96	1.022	118	31.31	8963.0	9307.4
26-Oct-16 12:30:00	32	91	39		243	45	95	0.975	125	31.32	8964.1	9308.9
26-Oct-16 12:45:00	32	90	39		244	44	93	0.983	129	31.33	8965.1	9310.4
26-Oct-16 13:00:00	32	90	39		248	44	95	0.949	145	31.34	8966.1	9311.9
26-Oct-16 13:15:00	32	91	39		248	44	96	1.137	60	31.35	8966.8	9312.8
26-Oct-16 13:30:00	32	90	39		244	44	96	0.989	133	31.36	8968.0	9313.7
26-Oct-16 13:45:00	32	91	39		247	43	95	1.155	56	31.38	8969.0	9314.6
26-Oct-16 14:00:00	32	90	39		248	44	95	1.007	133	31.39	8970.2	9315.5
26-Oct-16 14:15:00	32	89	39		246	43	95	1.010	120	31.40	8971.2	9316.5
26-Oct-16 14:30:00	32	90	39		254	44	100	0.922	196	31.41	8972.4	9317.4
26-Oct-16 14:45:00	32	90	39		249	45	96	1.035	114	31.42	8973.4	9318.3
26-Oct-16 15:00:00	32	90	40		248	45	95	1.055	98	31.43	8974.4	9319.2
26-Oct-16 15:15:00	32	91	40		242	45	98	1.023	122	31.44	8975.5	9320.1
26-Oct-16 15:30:00	32	91	40		241	44	96	1.121	73	31.45	8976.7	9321.0
26-Oct-16 15:45:00	32	90	40		249	44	97	0.995	152	31.46	8977.9	9322.0
26-Oct-16 16:00:00	32	91	39		239	43	98	0.962	124	31.47	8978.9	9322.9
26-Oct-16 16:05:00	Switched to adjustable choke, increased to 34/64".											
26-Oct-16 16:05:00	Waited for WHP to stabalize.											
26-Oct-16 16:11:00	Lowered separator pressure to 75 psia.											
26-Oct-16 16:15:00	32	77	39		220	43	111	1.020	139	31.48	8980.3	9323.9
26-Oct-16 16:30:00	Installed 36/64" choke bean witnessed by WSR.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
26-Oct-16 16:30:00	32	78	39		223	43	113	1.111	87	31.49	8981.4	9325.0
26-Oct-16 16:45:00	32	78	39		218	44	111	1.063	92	31.51	8982.6	9326.0
26-Oct-16 16:56:00	End of FP #2.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #3 EPT Flow - Data

Flow on 36/64" Fixed Choke

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
26-Oct-16 16:57:00	FP #3 Extended Production Test Flow on 36/64" Fixed Choke.											
26-Oct-16 16:57:00	Increased to 36/64" adjustable choke, then diverted to 36/64" fixed choke.											
26-Oct-16 16:57:00	36	78	39		221	44	112	1.123	88	31.51	8983.7	9326.8
26-Oct-16 16:59:00	Flowing well on 36/64" fixed choke.											
26-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 3.5%, Gas SG 0.642.											
26-Oct-16 17:00:00	36	80	39		202	44	133	1.215	67	31.52	8983.9	9327.0
26-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=62.33mS@28.2degC,Water Density=1013.9kg/m3@29.2DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-229mV2.											
26-Oct-16 17:15:00	36	77	39		199	43	124	1.063	121	31.53	8985.0	9328.1
26-Oct-16 17:30:00	36	80	39		205	42	130	1.106	133	31.54	8986.4	9329.1
26-Oct-16 17:45:00	36	78	39		200	42	127	1.219	47	31.55	8987.5	9330.1
26-Oct-16 18:00:00	36	78	38		204	42	127	1.184	84	31.56	8988.7	9331.2
26-Oct-16 18:15:00	36	79	38		200	41	126	1.223	59	31.57	8990.0	9332.3
26-Oct-16 18:30:00	36	79	37		200	41	124	1.155	84	31.58	8991.4	9333.5
26-Oct-16 18:45:00	36	78	37		204	41	133	1.065	153	31.60	8992.7	9334.6
26-Oct-16 19:00:00	36	78	36		202	41	126	1.117	100	31.61	8993.6	9335.8
26-Oct-16 19:15:00	36	80	36		208	40	128	1.188	63	31.62	8994.8	9336.8
26-Oct-16 19:30:00	36	78	36		201	40	124	1.173	71	31.63	8996.0	9337.8
26-Oct-16 19:45:00	36	79	35		202	40	125	1.264	35	31.64	8997.1	9338.9
26-Oct-16 20:00:00	36	78	35		207	40	131	1.101	124	31.65	8998.3	9339.9
26-Oct-16 20:15:00	36	78	34		205	40	127	1.062	150	31.66	8999.8	9340.8
26-Oct-16 20:30:00	36	80	34		207	40	129	1.236	68	31.68	9001.1	9341.8
26-Oct-16 20:45:00	36	78	34		201	40	131	1.192	82	31.69	9002.2	9342.7
26-Oct-16 21:00:00	36	79	34		200	39	127	1.134	102	31.70	9003.5	9343.6
26-Oct-16 21:15:00	36	78	34		203	39	131	1.114	123	31.71	9004.5	9344.6
26-Oct-16 21:30:00	36	78	33		203	39	127	1.175	75	31.72	9005.4	9345.7
26-Oct-16 21:45:00	36	79	33		204	39	124	1.180	62	31.73	9006.5	9346.7
26-Oct-16 22:00:00	36	78	33		201	39	123	1.058	129	31.75	9007.6	9347.7
26-Oct-16 22:15:00	36	78	33		204	39	125	0.950	208	31.76	9008.8	9348.8
26-Oct-16 22:30:00	36	79	33		202	39	125	1.177	75	31.77	9009.8	9349.8
26-Oct-16 22:45:00	36	79	33		199	39	130	1.121	117	31.78	9010.7	9350.8
26-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.650.											
26-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=61.13mS@27.8degC,Water Density=1012.8kg/m3@29.6DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-208.2mV2.											
26-Oct-16 23:00:00	Pumped 59.8 bbls from tank to the ponds.											
26-Oct-16 23:00:00	36	77	33		203	39	126	1.132	79	31.79	9011.6	9351.9
26-Oct-16 23:15:00	36	79	33		202	39	121	0.964	180	31.81	9012.6	9352.7
26-Oct-16 23:30:00	36	79	33		203	39	123	1.195	68	31.82	9013.7	9353.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
26-Oct-16 23:45:00	36	79	33		201	39	126	1.161	82	31.83	9015.0	9354.3
27-Oct-16 00:00:00	36	78	32		201	39	127	1.096	103	31.84	9016.0	9355.1
27-Oct-16 00:15:00	36	78	32		201	38	126	1.262	38	31.85	9017.0	9356.1
27-Oct-16 00:30:00	36	77	32		201	39	123	1.036	127	31.86	9018.0	9357.2
27-Oct-16 00:45:00	36	77	32		206	39	127	1.214	63	31.88	9018.9	9358.2
27-Oct-16 01:00:00	36	78	32		200	39	123	1.199	52	31.89	9020.0	9359.2
27-Oct-16 01:15:00	36	79	32		198	39	126	0.962	181	31.90	9021.5	9360.3
27-Oct-16 01:30:00	36	77	32		201	38	124	1.016	139	31.91	9022.6	9361.3
27-Oct-16 01:45:00	36	78	32		204	39	125	1.227	66	31.92	9023.9	9362.3
27-Oct-16 02:00:00	36	77	32		198	38	126	1.109	99	31.93	9024.9	9363.4
27-Oct-16 02:15:00	36	77	32		203	39	124	1.130	85	31.95	9025.8	9364.4
27-Oct-16 02:25:00	WHP dropping, well slugging.											
27-Oct-16 02:30:00	36	78	32		191	38	128	1.119	98	31.96	9026.8	9365.4
27-Oct-16 02:45:00	36	79	32		200	38	123	1.024	140	31.97	9028.1	9366.5
27-Oct-16 03:00:00	36	79	31		199	38	130	1.078	144	31.98	9028.9	9367.5
27-Oct-16 03:15:00	36	77	31		201	38	125	1.066	117	31.99	9029.8	9368.5
27-Oct-16 03:30:00	36	78	31		198	38	121	1.120	85	32.00	9030.8	9369.6
27-Oct-16 03:45:00	36	78	31		200	38	124	1.202	54	32.02	9031.6	9370.6
27-Oct-16 04:00:00	36	78	31		202	38	125	1.076	134	32.03	9032.7	9371.6
27-Oct-16 04:15:00	36	77	31		200	38	123	1.008	147	32.04	9033.6	9372.7
27-Oct-16 04:30:00	36	79	31		195	38	127	1.045	140	32.05	9034.9	9373.7
27-Oct-16 04:45:00	36	78	31		203	38	127	1.121	92	32.06	9036.0	9374.8
27-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.650.											
27-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=57.23mS@24.3degC,Water Density=1013.7kg/m3@26.4DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-225.8mV2.											
27-Oct-16 05:00:00	36	78	31		201	38	126	1.024	167	32.07	9037.1	9375.8
27-Oct-16 05:15:00	36	78	31		202	38	122	1.123	94	32.09	9038.2	9376.7
27-Oct-16 05:30:00	36	80	31									9377.6
27-Oct-16 05:45:00	36	77	31		197	38	124	1.183	61	32.11	9040.1	9378.6
27-Oct-16 06:00:00	36	79	31		205	38	126	1.150	106	32.12	9041.1	9379.5
27-Oct-16 06:15:00	36	79	31		198	38	121	1.131	80	32.13	9042.0	9380.6
27-Oct-16 06:30:00	36	79	31		204	38	126	1.210	57	32.14	9043.0	9381.8
27-Oct-16 06:45:00	36	78	31		200	39	126	1.096	105	32.16	9044.0	9382.9
27-Oct-16 07:00:00	36	79	31		196	39	128	1.130	101	32.17	9045.0	9384.1
27-Oct-16 07:15:00	36	79	32		193	40	121	0.960	169	32.18	9046.1	9385.0
27-Oct-16 07:30:00	36	79	32		195	40	125	1.175	65	32.19	9047.4	9385.9
27-Oct-16 07:45:00	36	78	33		194	40	120	0.976	131	32.20	9048.5	9386.8
27-Oct-16 08:00:00	Gas SG 0.642.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
27-Oct-16 08:00:00	36	79	33		201	40	125	1.111	103	32.21	9049.8	9387.8
27-Oct-16 08:15:00	36	79	34		199	41	123	1.184	64	32.22	9050.7	9388.9
27-Oct-16 08:30:00	36	79	34		195	41	123	0.936	191	32.23	9051.9	9390.0
27-Oct-16 08:45:00	36	78	35		202	42	124	1.131	92	32.25	9053.0	9391.2
27-Oct-16 09:00:00	36	79	35		197	42	121	1.270	11	32.26	9054.0	9392.4
27-Oct-16 09:15:00	36	79	36		198	42	123	1.301	6	32.27	9055.0	9393.3
27-Oct-16 09:30:00	36	78	36		200	43	125	1.001	161	32.28	9056.0	9394.2
27-Oct-16 09:45:00	36	79	36		195	43	122	1.096	82	32.29	9057.0	9395.1
27-Oct-16 10:00:00	36	79	37		194	43	121	0.998	150	32.30	9058.3	9396.0
27-Oct-16 10:15:00	36	79	37		190	44	122	1.088	74	32.31	9059.6	9397.1
27-Oct-16 10:30:00	36	79	38		204	44	128	0.993	192	32.32	9061.0	9398.1
27-Oct-16 10:45:00	36	79	38		195	45	123	1.061	90	32.34	9061.9	9399.1
27-Oct-16 11:00:00	BSW 100% no solids, H2S9ppm, CO2 4%, Gas SG 0.642.											
27-Oct-16 11:00:00	36	79	39		197	45	126	0.894	208	32.35	9063.3	9400.2
27-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=66.8mS@32.1degC,Water Density=1011kg/m3@34.4DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-230.9mV2.											
27-Oct-16 11:15:00	36	79	39		198	45	126	1.069	96	32.36	9064.4	9401.3
27-Oct-16 11:30:00	36	78	40		194	45	121	1.050	89	32.37	9065.7	9402.5
27-Oct-16 11:45:00	36	78	40		196	46	126	1.024	129	32.38	9066.8	9403.7
27-Oct-16 12:00:00	36	79	40		193	46	124	1.066	112	32.39	9067.9	9404.9
27-Oct-16 12:15:00	36	79	40		196	46	130	1.128	101	32.40	9069.0	9406.0
27-Oct-16 12:30:00	36	79	41		197	46	125	1.019	134	32.41	9070.3	9407.1
27-Oct-16 12:45:00	36	79	41		196	46	126	1.020	139	32.42	9071.5	9408.3
27-Oct-16 13:00:00	36	78	41		197	46	125	1.051	129	32.43	9072.9	9409.5
27-Oct-16 13:15:00	36	79	41		200	45	125	1.057	124	32.45	9074.2	9410.4
27-Oct-16 13:30:00	36	79	41		190	46	121	1.004	134	32.46	9075.4	9411.3
27-Oct-16 13:45:00	36	79	41		200	44	125	1.059	93	32.47	9076.5	9412.2
27-Oct-16 14:00:00	Gas SG 0.644.											
27-Oct-16 14:00:00	36	79	41		191	46	129	1.185	54	32.48	9077.7	9413.1
27-Oct-16 14:15:00	36	78	41		199	46	126	1.027	135	32.49	9078.9	9414.2
27-Oct-16 14:30:00	36	79	41		201	46	126	1.097	94	32.50	9080.2	9415.2
27-Oct-16 14:45:00	36	78	42		198	46	122	1.119	77	32.51	9081.5	9416.2
27-Oct-16 15:00:00	36	80	42		197	46	128	1.154	79	32.52	9082.5	9417.3
27-Oct-16 15:15:00	36	79	41		191	45	124	1.041	131	32.53	9083.8	9418.3
27-Oct-16 15:30:00	36	79	41		195	45	126	1.052	93	32.55	9084.8	9419.3
27-Oct-16 15:45:00	36	79	41		194	44	124	1.045	121	32.56	9085.9	9420.4
27-Oct-16 16:00:00	36	80	41		194	45	128	1.009	152	32.57	9087.1	9421.4
27-Oct-16 16:15:00	36	80	41		194	45	127	0.973	157	32.58	9088.1	9422.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
27-Oct-16 16:30:00	36	79	41		198	45	124	1.057	122	32.59	9089.2	9423.0
27-Oct-16 16:45:00	36	80	41		196	44	124	1.056	76	32.60	9090.2	9423.8
27-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4% Gas SG 0.646.											
27-Oct-16 17:00:00	Took Isotube sample #35 from separator gas line at 40degC 79psia.											
27-Oct-16 17:00:00	Water sample from VX: ph=7, Electrical Conductivity=68.78mS@34.2degC,Water Density=1011.6kg/m3@34.6DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-250.4mV2.											
27-Oct-16 17:00:00	36	78	40		196	43	125	1.061	121	32.61	9091.5	9424.6
27-Oct-16 17:10:00	Pumped out 61.26 bbls from tank to pond.											
27-Oct-16 17:15:00	36	79	40		204	43	128	1.138	102	32.62	9092.4	9425.5
27-Oct-16 17:30:00	36	79	40		195	43	127	1.213	53	32.63	9093.3	9426.5
27-Oct-16 17:45:00	36	79	39		192	42	125	1.051	120	32.65	9094.5	9427.4
27-Oct-16 18:00:00	36	80	39		200	42	125	0.963	182	32.66	9095.7	9428.3
27-Oct-16 18:15:00	36	80	38		197	42	126	1.158	72	32.67	9096.9	9429.3
27-Oct-16 18:30:00	36	80	38		197	41	128	1.051	133	32.68	9098.1	9430.4
27-Oct-16 18:45:00	36	78	37		196	41	121	1.102	88	32.69	9099.1	9431.4
27-Oct-16 19:00:00	36	78	37		202	41	127	0.925	232	32.70	9100.3	9432.5
27-Oct-16 19:15:00	36	79	36		195	40	121	1.119	71	32.71	9101.4	9433.5
27-Oct-16 19:30:00	36	78	36		196	40	123	1.077	98	32.72	9102.6	9434.5
27-Oct-16 19:45:00	36	78	35		199	40	123	1.241	21	32.74	9103.6	9435.6
27-Oct-16 20:00:00	36	78	35		198	40	124	1.088	117	32.75	9104.5	9436.6
27-Oct-16 20:15:00	36	79	35		201	40	127	1.102	129	32.76	9105.7	9437.5
27-Oct-16 20:30:00	36	78	34		196	40	128	1.113	105	32.77	9106.6	9438.4
27-Oct-16 20:45:00	36	79	34		203	39	129	1.206	77	32.78	9107.8	9439.4
27-Oct-16 21:00:00	36	78	34		197	39	122	1.034	136	32.79	9109.0	9440.3
27-Oct-16 21:15:00	36	78	34		207	39	129	1.156	101	32.81	9110.1	8657.5
27-Oct-16 21:30:00	36	78	34		199	40	123	0.976	172	32.82	9111.4	7874.8
27-Oct-16 21:45:00	36	79	34		199	40	125	1.141	86	32.83	9112.6	7092.0
27-Oct-16 22:00:00	36	79	33		198	39	122	1.192	61	32.84	9113.6	6309.2
27-Oct-16 22:15:00	36	80	33		200	39	126	1.295	17	32.85	9114.5	7094.1
27-Oct-16 22:30:00	36	79	33		198	39	123	1.193	48	32.86	9115.5	7878.9
27-Oct-16 22:45:00	36	78	33		201	39	123	1.019	133	32.87	9116.6	8663.7
27-Oct-16 23:00:00	BSW 100% no solids, H2S 9ppm, CO2 4% Gas SG 0.646.											
27-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=60.40mS@26.4degC,Water Density=1013.1kg/m3@28.6DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-240.7mV2.											
27-Oct-16 23:00:00	36	77	33		198	39	126	1.132	86	32.89	9117.8	9448.5
27-Oct-16 23:15:00	36	78	33		202	39	124	1.060	116	32.90	9118.9	9449.5
27-Oct-16 23:30:00	36	79	33		197	39	129	1.097	125	32.91	9120.0	9450.4
27-Oct-16 23:45:00	36	79	33		196	39	122	1.126	89	32.92	9121.2	9451.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
28-Oct-16 00:00:00	36	78	33		194	39	125	1.044	118	32.93	9122.1	9452.2
28-Oct-16 00:15:00	36	78	33		205	39	125	1.099	122	32.94	9123.1	9453.1
28-Oct-16 00:30:00	36	79	33		195	39	127	1.114	95	32.96	9124.3	9454.1
28-Oct-16 00:45:00	36	78	33		196	39	126	1.022	156	32.97	9125.5	9455.0
28-Oct-16 01:00:00	36	78	32		202	39	128	1.071	150	32.98	9126.5	9455.9
28-Oct-16 01:15:00	36	78	32		196	39	125	1.200	59	32.99	9127.5	9456.8
28-Oct-16 01:30:00	36	78	32		198	39	120	0.998	145	33.00	9128.8	9457.8
28-Oct-16 01:45:00	36	79	32		200	39	123	1.131	95	33.01	9129.7	9458.7
28-Oct-16 02:00:00	36	79	32		204	39	126	1.202	73	33.02	9130.9	9459.6
28-Oct-16 02:15:00	36	79	32		196	39	128	1.060	142	33.04	9132.0	9460.6
28-Oct-16 02:30:00	36	78	32		200	39	123	1.180	73	33.05	9133.2	9461.7
28-Oct-16 02:45:00	36	78	32		203	39	122	1.164	82	33.06	9134.4	9462.7
28-Oct-16 03:00:00	36	78	32		191	39	115	1.084	94	33.07	9135.6	9463.7
28-Oct-16 03:05:00	WHP dropping, well slugging.											
28-Oct-16 03:15:00	36	81	32		220	39	134	1.194	108	33.08	9136.9	9464.7
28-Oct-16 03:30:00	36	78	32		184	38	125	1.008	142	33.09	9137.9	9465.6
28-Oct-16 03:45:00	36	80	32		201	39	123	1.133	82	33.10	9139.0	9466.5
28-Oct-16 04:00:00	36	78	31		204	38	125	0.950	176	33.12	9139.9	9467.4
28-Oct-16 04:15:00	36	79	32		193	38	122	1.120	96	33.13	9141.1	9468.3
28-Oct-16 04:30:00	36	79	31		192	38	125	1.201	61	33.14	9142.1	9469.3
28-Oct-16 04:45:00	36	79	31		198	38	128	1.219	72	33.15	9143.1	9470.2
28-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4% Gas SG 0.646.											
28-Oct-16 05:00:00	Water sample from VX: ph=7, Electrical Conductivity=57.36mS@24degC,Water Density=1013.4kg/m3@27.1DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-245.7mV2.											
28-Oct-16 05:00:00	36	79	31		196	38	122	1.095	111	33.16	9144.2	9471.1
28-Oct-16 05:15:00	36	79	31		202	38	124	1.156	101	33.17	9145.1	9472.0
28-Oct-16 05:30:00	36	78	31									9472.9
28-Oct-16 05:45:00	36	79	31		201	38	121	1.101	87	33.19	9147.2	9473.9
28-Oct-16 06:00:00	36	78	31		195	38	125	1.134	87	33.21	9148.3	9474.8
28-Oct-16 06:15:00	36	79	31		196	38	122	1.236	19	33.22	9149.3	9475.9
28-Oct-16 06:30:00	36	78	31		193	38	119	1.188	36	33.23	9150.1	9477.1
28-Oct-16 06:45:00	36	78	31		192	39	125	1.148	67	33.24	9151.4	9478.2
28-Oct-16 07:00:00	36	78	32		198	39	125	1.015	133	33.25	9152.5	9479.4
28-Oct-16 07:15:00	36	78	32		193	40	124	1.011	148	33.26	9153.7	9480.2
28-Oct-16 07:30:00	36	78	33		193	40	121	0.985	157	33.27	9154.8	9481.0
28-Oct-16 07:45:00	36	79	33		196	40	128	1.263	40	33.29	9156.0	9481.8
28-Oct-16 08:00:00	Gas SG 0.644.											
28-Oct-16 08:00:00	36	79	34		197	41	121	1.083	99	33.30	9157.3	9482.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
28-Oct-16 08:15:00	36	79	34		197	41	120	1.117	75	33.31	9158.3	9483.6
28-Oct-16 08:30:00	36	79	35		198	41	121	1.003	140	33.32	9159.7	9484.7
28-Oct-16 08:45:00	36	79	35		194	42	124	0.966	169	33.33	9161.0	9485.7
28-Oct-16 09:00:00	36	79	36		204	42	126	1.105	123	33.34	9162.2	9486.7
28-Oct-16 09:15:00	36	80	36		193	43	124	1.022	136	33.35	9163.3	9487.6
28-Oct-16 09:30:00	36	79	36		191	43	119	1.051	79	33.36	9164.3	9488.6
28-Oct-16 09:45:00	36	79	37		195	43	123	0.896	198	33.37	9165.7	9489.5
28-Oct-16 10:00:00	36	79	38		198	44	123	0.988	170	33.38	9167.1	9490.4
28-Oct-16 10:15:00	36	79	38		194	44	124	1.037	123	33.40	9168.4	9491.2
28-Oct-16 10:30:00	36	79	38		198	44	125	1.132	91	33.41	9169.6	9492.0
28-Oct-16 10:45:00	Flushed VX water port, removed all old debris.											
28-Oct-16 10:45:00	36	80	39		191	45	120	1.081	94	33.42	9170.7	9492.8
28-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.											
28-Oct-16 11:00:00	36	80	39		191	45	122	1.103	90	33.43	9171.8	9493.6
28-Oct-16 11:01:00	Water sample from VX: ph=7, Electrical Conductivity=71.75mS@35.8degC,Water Density=1010.2kg/m3@37.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-248.9mV2.											
28-Oct-16 11:15:00	Pumped out 69.54 bbls from tank to pond.											
28-Oct-16 11:15:00	36	78	40		193	45	124	1.030	132	33.44	9173.0	9494.4
28-Oct-16 11:30:00	36	80	40		198	46	125	1.181	55	33.45	9174.0	9495.2
28-Oct-16 11:45:00	36	80	40		192	46	121	1.076	106	33.46	9175.2	9496.0
28-Oct-16 12:00:00	36	80	41		191	46	120	1.066	118	33.47	9176.4	9496.9
28-Oct-16 12:15:00	36	78	41		198	46	124	1.121	90	33.48	9177.7	9497.8
28-Oct-16 12:30:00	36	79	41		191	45	127	1.020	142	33.49	9178.9	9498.7
28-Oct-16 12:45:00	36	79	41		192	46	126	1.099	81	33.50	9180.0	9499.6
28-Oct-16 13:00:00	36	78	41		195	46	121	1.017	134	33.52	9181.3	9500.5
28-Oct-16 13:15:00	36	79	41		201	46	128	1.049	145	33.53	9182.8	9501.6
28-Oct-16 13:30:00	36	79	42		196	46	124	0.956	167	33.54	9183.9	9502.6
28-Oct-16 13:45:00	36	79	42		201	46	125	0.950	184	33.55	9185.3	9503.6
28-Oct-16 14:00:00	Gas SG 0.644.											
28-Oct-16 14:00:00	36	79	42		195	46	124	1.078	101	33.56	9186.4	9504.7
28-Oct-16 14:15:00	36	79	42		198	46	124	1.097	74	33.57	9187.5	9505.5
28-Oct-16 14:30:00	36	80	42		195	46	122	1.188	54	33.58	9188.6	9506.3
28-Oct-16 14:45:00	36	79	42		196	46	123	1.054	103	33.59	9189.7	9507.1
28-Oct-16 15:00:00	36	79	41		199	45	124	1.059	111	33.60	9191.1	9507.9
28-Oct-16 15:15:00	36	80	41		197	45	120	1.002	134	33.61	9192.0	9509.0
28-Oct-16 15:30:00	36	80	41		188	46	118	1.105	56	33.63	9193.1	9510.2
28-Oct-16 15:45:00	36	79	41		197	45	122	1.054	101	33.64	9194.2	9511.3
28-Oct-16 16:00:00	36	80	41		198	44	124	0.934	190	33.65	9195.4	9512.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	**ChokeSize**	**GasP**	**GasT**	**GasQ**	**PL**	**TL**	**DPV**	**qg sc**	**qw sc**	**cum Gas**	**cum Wtr**	**TankVT**
dd-MMM-yy HH:mm:ss	**(1/64 in)**	**(psia)**	**(°C)**	**(MMscf/d)**	**(psia)**	**(°C)**	**(mbar)**	**(MMscf/d)**	**(STB/d)**	**(MMscf)**	**(STB)**	**(STB)**
28-Oct-16 16:15:00	36	81	41		192	44	120	1.129	74	33.66	9196.6	9513.1
28-Oct-16 16:30:00	36	77	40		187	44	116	0.952	139	33.67	9197.4	9513.6
28-Oct-16 16:33:00	Well slugging.											
28-Oct-16 16:45:00	36	84	41		209	44	131	1.132	125	33.68	9198.9	9514.2
28-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%. Gas SG 0.642.											
28-Oct-16 17:00:00	36	79	40		191	43	126	1.037	125	33.69	9200.1	9514.8
28-Oct-16 17:01:00	Water sample from VX: ph=7, Electrical Conductivity=71.67mS@34.8degC,Water Density=1011.5kg/m3@35.5DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-259.7mV2.											
28-Oct-16 17:15:00	36	80	39		197	42	121	1.120	89	33.70	9201.1	9515.8
28-Oct-16 17:30:00	36	79	39		199	42	124	1.181	58	33.71	9202.2	9516.9
28-Oct-16 17:45:00	36	79	39		198	42	125	0.968	188	33.72	9203.5	9517.9
28-Oct-16 18:00:00	36	79	38		193	42	121	1.218	36	33.74	9204.7	9518.9
28-Oct-16 18:15:00	36	80	38		194	42	126	1.121	90	33.75	9205.7	9520.1
28-Oct-16 18:30:00	36	81	38		199	41	124	1.102	94	33.76	9207.2	9521.2
28-Oct-16 18:45:00	36	78	37		202	41	125	1.112	105	33.77	9208.4	9522.4
28-Oct-16 19:00:00	36	80	37		192	41	121	1.118	85	33.78	9209.5	9523.5
28-Oct-16 19:15:00	36	79	37		196	41	122	1.075	102	33.79	9210.5	9524.3
28-Oct-16 19:30:00	36	78	36		203	41	125	1.052	146	33.80	9211.7	9525.1
28-Oct-16 19:45:00	36	79	36		196	40	128	1.158	74	33.81	9212.9	9525.9
28-Oct-16 20:00:00	36	81	36		198	40	123	1.138	89	33.82	9214.1	9526.8
28-Oct-16 20:15:00	36	80	36		195	40	122	1.127	80	33.84	9215.2	9527.8
28-Oct-16 20:30:00	36	80	35		199	40	123	1.026	127	33.85	9216.2	9528.8
28-Oct-16 20:45:00	36	79	35		195	40	124	1.252	33	33.86	9217.2	9529.9
28-Oct-16 21:00:00	36	80	35		202	40	124	1.073	122	33.87	9218.3	9530.9
28-Oct-16 21:15:00	36	80	35		192	40	123	1.079	98	33.88	9219.3	9531.8
28-Oct-16 21:30:00	36	78	35		195	40	121	0.995	152	33.89	9220.4	9532.7
28-Oct-16 21:45:00	36	80	34		195	40	123	1.069	122	33.90	9221.5	9533.6
28-Oct-16 22:00:00	36	79	34		197	40	124	1.100	80	33.92	9222.5	9534.6
28-Oct-16 22:15:00	36	79	34		191	40	122	1.130	77	33.93	9223.8	9535.5
28-Oct-16 22:30:00	36	78	34		200	39	124	0.965	185	33.94	9225.0	9536.4
28-Oct-16 22:45:00	36	79	34		193	39	124	1.048	124	33.95	9226.0	9537.3
28-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%. Gas SG 0.648.											
28-Oct-16 23:00:00	Water sample from VX: ph=7, Electrical Conductivity=62.34mS@27.5degC,Water Density=1012.6kg/m3@29.8DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-250.1mV2.											
28-Oct-16 23:00:00	36	79	34		200	39	124	1.192	46	33.96	9227.1	9538.3
28-Oct-16 23:15:00	36	81	34		192	39	119	1.124	76	33.97	9228.2	9539.2
28-Oct-16 23:30:00	36	79	34		197	39	123	0.999	137	33.98	9229.3	9540.1
28-Oct-16 23:45:00	36	80	33		194	39	121	1.226	32	34.00	9230.1	9541.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
29-Oct-16 00:00:00	36	79	33		193	39	124	1.147	65	34.01	9231.0	9541.9
29-Oct-16 00:15:00	36	80	33		203	39	124	1.156	73	34.02	9232.0	9542.9
29-Oct-16 00:30:00	36	80	33		199	39	129	1.047	155	34.03	9233.2	9543.8
29-Oct-16 00:45:00	36	78	33		194	39	119	1.023	124	34.04	9234.2	9544.7
29-Oct-16 01:00:00	36	80	33		207	39	128	1.129	106	34.05	9235.3	9545.6
29-Oct-16 01:15:00	36	78	33		197	39	122	0.895	223	34.06	9236.1	9546.6
29-Oct-16 01:30:00	36	79	32		197	39	123	1.097	103	34.08	9237.1	9547.7
29-Oct-16 01:45:00	36	80	32		197	39	122	1.104	60	34.09	9238.1	9548.7
29-Oct-16 02:00:00	36	80	32		200	39	125	1.217	59	34.10	9239.2	9549.8
29-Oct-16 02:15:00	36	80	32		198	38	121	1.019	128	34.11	9240.1	9550.7
29-Oct-16 02:30:00	36	80	32		200	38	122	1.041	149	34.12	9241.4	9551.6
29-Oct-16 02:45:00	36	79	32		199	38	121	0.959	170	34.13	9242.2	9552.5
29-Oct-16 03:00:00	WHP dropping, well slugging.											
29-Oct-16 03:00:00	36	80	32		197	38	120	1.001	126	34.15	9243.3	9553.4
29-Oct-16 03:15:00	36	79	31		197	38	120	1.036	102	34.16	9244.3	9554.2
29-Oct-16 03:30:00	36	80	31		193	38	119	0.932	142	34.17	9245.2	9555.0
29-Oct-16 03:45:00	36	80	31		201	38	123	1.017	132	34.18	9246.2	9555.8
29-Oct-16 04:00:00	36	79	31		193	38	117	1.117	75	34.19	9247.3	9556.6
29-Oct-16 04:15:00	36	80	32		194	38	123	1.205	28	34.20	9248.2	9557.6
29-Oct-16 04:30:00	36	81	31		196	38	119	1.024	104	34.22	9249.1	9558.5
29-Oct-16 04:45:00	36	80	31		192	38	117	1.097	89	34.23	9250.1	9559.4
29-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=58.49mS@24.4degC,Water Density=1013.1kg/m3@27.6DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-255.8mV2.											
29-Oct-16 05:00:00	Pumped out 67.62bbls the ponds.											
29-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%. Gas SG 0.648.											
29-Oct-16 05:00:00	36	79	31		199	38	122	1.023	147	34.24	9251.3	9560.3
29-Oct-16 05:15:00	36	80	31		201	38	122	1.043	136	34.25	9252.2	9561.1
29-Oct-16 05:30:00	36	80	31									9561.9
29-Oct-16 05:45:00	36	80	31		198	38	120	1.131	72	34.27	9254.1	9562.7
29-Oct-16 06:00:00	36	79	31		197	38	122	1.222	8	34.28	9255.0	9563.6
29-Oct-16 06:15:00	36	79	31		199	38	120	1.074	93	34.29	9256.1	9564.6
29-Oct-16 06:30:00	36	79	31		201	38	121	1.005	139	34.31	9257.2	9565.6
29-Oct-16 06:45:00	36	79	31		198	39	120	1.053	107	34.32	9258.2	9566.7
29-Oct-16 07:00:00	36	81	32		195	40	120	0.941	169	34.33	9259.4	9567.7
29-Oct-16 07:15:00	36	79	32		192	40	124	1.085	100	34.34	9260.5	9568.7
29-Oct-16 07:30:00	36	79	33		196	40	123	0.959	153	34.35	9261.7	9569.8
29-Oct-16 07:31:00	Well slugging.											
29-Oct-16 07:45:00	36	77	33		190	40	118	1.019	112	34.36	9262.6	9570.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
29-Oct-16 08:00:00	Gas SG 0.642.											
29-Oct-16 08:00:00	36	84	34		200	41	124	0.928	186	34.37	9263.8	9571.8
29-Oct-16 08:15:00	36	80	35		202	41	125	1.098	110	34.38	9264.7	9572.6
29-Oct-16 08:30:00	36	81	35		196	42	120	1.092	78	34.40	9265.9	9573.4
29-Oct-16 08:45:00	36	80	36		191	42	124	1.199	45	34.41	9267.1	9574.2
29-Oct-16 09:00:00	36	81	36		200	43	123	1.076	116	34.42	9268.2	9575.0
29-Oct-16 09:15:00	36	79	36		196	43	119	1.122	70	34.43	9269.2	9575.9
29-Oct-16 09:30:00	36	81	37		194	43	123	1.131	65	34.44	9270.1	9576.7
29-Oct-16 09:45:00	36	80	38		188	44	122	1.073	96	34.45	9271.2	9577.5
29-Oct-16 10:00:00	36	80	38		191	44	121	1.045	96	34.46	9272.4	9578.3
29-Oct-16 10:15:00	36	80	38		194	44	123	1.062	137	34.47	9273.6	9579.4
29-Oct-16 10:30:00	36	80	39		192	45	121	1.059	69	34.48	9274.7	9580.6
29-Oct-16 10:41:25	Well Slugging.											
29-Oct-16 10:45:00	36	82	39		217	45	140	1.119	155	34.49	9276.0	9581.7
29-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
29-Oct-16 11:00:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.											
29-Oct-16 11:00:00	36	83	40		187	45	120	0.997	118	34.51	9277.2	9582.9
29-Oct-16 11:01:00	Water sample from VX: pH=7, Electrical Conductivity=66.8mS@31.7degC,Water Density=1011kg/m3@33.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-218.8mV2.											
29-Oct-16 11:15:00	36	81	40		193	45	123	0.929	186	34.52	9278.3	9583.4
29-Oct-16 11:30:00	36	80	40		187	46	119	0.878	190	34.53	9279.6	9584.0
29-Oct-16 11:45:00	36	80	40		195	46	122	1.145	69	34.54	9280.8	9584.6
29-Oct-16 12:00:00	36	81	41		188	46	122	0.910	179	34.55	9282.0	9585.2
29-Oct-16 12:15:00	36	80	41		197	46	122	1.243	34	34.56	9283.2	9586.1
29-Oct-16 12:30:00	36	80	41		194	46	125	1.228	27	34.57	9284.1	9587.0
29-Oct-16 12:45:00	36	82	41		191	46	123	1.116	74	34.58	9285.3	9587.9
29-Oct-16 13:00:00	36	80	42		191	46	125	1.235	23	34.59	9286.4	9588.9
29-Oct-16 13:15:00	36	80	42		195	46	121	1.026	111	34.60	9287.6	9590.0
29-Oct-16 13:30:00	36	81	42		188	46	125	0.938	181	34.61	9288.8	9591.2
29-Oct-16 13:45:00	36	81	42		188	46	118	0.964	144	34.63	9290.0	9592.3
29-Oct-16 14:00:00	Gas SG 0.642.											
29-Oct-16 14:00:00	36	81	42		197	45	123	1.184	66	34.64	9291.5	9593.5
29-Oct-16 14:15:00	36	81	41		194	44	120	1.056	98	34.65	9292.5	9594.3
29-Oct-16 14:30:00	36	81	41		191	44	119	0.990	130	34.66	9293.6	9595.1
29-Oct-16 14:45:00	36	81	41		191	44	121	0.956	154	34.67	9294.9	9595.9
29-Oct-16 15:00:00	36	80	40		194	43	125	1.057	125	34.68	9296.1	9596.7
29-Oct-16 15:15:00	36	82	40		192	44	119	1.140	57	34.69	9297.1	9597.7
29-Oct-16 15:30:00	36	82	40		189	44	120	1.023	134	34.70	9298.2	9598.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
29-Oct-16 15:45:00	36	80	40		193	43	126	1.079	112	34.71	9299.2	9599.8
29-Oct-16 16:00:00	36	79	40		193	43	118	1.037	95	34.72	9300.1	9600.8
29-Oct-16 16:15:00	36	82	40		195	43	121	1.047	123	34.74	9301.3	9601.4
29-Oct-16 16:30:00	36	80	39		189	43	118	0.961	155	34.75	9302.6	9602.0
29-Oct-16 16:45:00	36	81	40		196	44	123	1.065	91	34.76	9303.8	9602.5
29-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
29-Oct-16 17:00:00	36	80	40		193	44	124	1.010	135	34.77	9304.8	9603.1
29-Oct-16 17:01:00	Water sample from VX: pH=7, Electrical Conductivity=68.98mS@33.5degC,Water Density=1011kg/m3@34.6DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-249.4mV2.											
29-Oct-16 17:15:00	36	81	40		193	43	124	0.964	166	34.78	9305.8	9604.1
29-Oct-16 17:30:00	36	81	40		191	42	121	1.049	112	34.79	9306.9	9605.2
29-Oct-16 17:45:00	36	80	39		198	42	124	1.018	130	34.80	9307.9	9606.2
29-Oct-16 17:50:00	WHP dropping, well slugging.											
29-Oct-16 18:00:00	36	73	39		176	42	110	0.939	114	34.81	9309.0	9607.3
29-Oct-16 18:15:00	36	88	39		212	42	134	1.155	103	34.82	9310.4	9608.2
29-Oct-16 18:30:00	36	80	38		189	41	118	1.064	88	34.83	9311.5	9609.1
29-Oct-16 18:45:00	36	82	38		196	41	121	1.143	65	34.85	9312.4	9610.0
29-Oct-16 19:00:00	36	81	37		195	41	121	0.932	175	34.86	9313.6	9610.9
29-Oct-16 19:15:00	36	81	37		190	41	117	1.101	76	34.87	9314.6	9612.1
29-Oct-16 19:30:00	36	81	36		188	40	121	1.137	43	34.88	9315.7	9613.2
29-Oct-16 19:45:00	36	80	36		196	40	124	1.055	136	34.89	9317.0	9614.4
29-Oct-16 20:00:00	36	79	36		196	40	122	1.112	98	34.90	9317.9	9615.5
29-Oct-16 20:15:00	36	80	35		198	40	124	0.990	148	34.91	9319.2	9616.3
29-Oct-16 20:30:00	36	80	35		196	40	128	1.145	82	34.92	9320.0	9617.1
29-Oct-16 20:45:00	36	80	35		199	40	123	1.093	103	34.94	9321.0	9617.9
29-Oct-16 21:00:00	36	80	34		193	39	123	1.050	105	34.95	9322.0	9618.8
29-Oct-16 21:15:00	36	79	34		202	39	124	1.212	51	34.96	9323.1	9619.4
29-Oct-16 21:30:00	36	80	34		192	39	120	1.042	124	34.97	9324.1	9620.1
29-Oct-16 21:45:00	36	81	34		197	39	126	1.160	68	34.98	9325.1	9620.8
29-Oct-16 22:00:00	36	80	34		199	39	124	1.072	109	34.99	9326.0	9621.5
29-Oct-16 22:15:00	36	80	34		199	39	125	1.120	111	35.01	9327.1	9622.4
29-Oct-16 22:30:00	36	79	34		197	39	127	1.112	105	35.02	9328.2	9623.4
29-Oct-16 22:45:00	WHP dropping, well slugging.											
29-Oct-16 22:45:00	36	80	34		194	39	123	1.131	89	35.03	9329.2	9624.3
29-Oct-16 23:00:00	BSW 100% no solids, H2S 10ppm, CO2 4.5%, Gas SG 0.646.											
29-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=64.76mS@29.0degC,Water Density=1012.5kg/m3@31DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-232.5mV2.											
29-Oct-16 23:00:00	Pumped 64.86 bbls from tank to the ponds.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
29-Oct-16 23:00:00	36	77	34		223	39	137	1.067	174	35.04	9330.6	9625.2
29-Oct-16 23:15:00	36	89	34		208	40	130	1.168	111	35.05	9331.7	9625.9
29-Oct-16 23:30:00	36	80	33		200	39	123	1.185	62	35.06	9332.5	9626.6
29-Oct-16 23:45:00	36	82	33		201	39	125	1.007	163	35.07	9333.5	9627.3
30-Oct-16 00:00:00	36	82	33		194	39	122	1.001	149	35.09	9334.5	9628.0
30-Oct-16 00:15:00	36	81	33		196	39	120	1.216	45	35.10	9335.6	9628.8
30-Oct-16 00:30:00	36	81	33		194	39	124	1.042	108	35.11	9336.8	9629.6
30-Oct-16 00:45:00	36	81	33		194	39	120	1.176	56	35.12	9337.7	9630.4
30-Oct-16 01:00:00	36	80	32		197	39	123	1.069	109	35.13	9338.6	9631.2
30-Oct-16 01:15:00	36	81	32		195	38	118	1.098	94	35.14	9339.5	9632.0
30-Oct-16 01:30:00	36	80	32		199	39	122	1.079	88	35.15	9340.4	9632.8
30-Oct-16 01:45:00	36	80	32		193	38	124	1.041	136	35.17	9341.5	9633.6
30-Oct-16 02:00:00	36	81	32		198	38	120	1.137	86	35.18	9342.3	9634.4
30-Oct-16 02:15:00	36	81	32		198	38	122	1.214	47	35.19	9343.3	9635.4
30-Oct-16 02:30:00	36	80	32		195	38	121	0.981	148	35.20	9344.2	9636.5
30-Oct-16 02:45:00	36	80	32		192	38	121	0.944	175	35.21	9345.2	9637.5
30-Oct-16 03:00:00	36	80	32		198	38	121	1.086	102	35.22	9346.3	9638.5
30-Oct-16 03:15:00	36	80	32		192	38	121	1.028	121	35.24	9347.3	9639.2
30-Oct-16 03:30:00	36	79	32		198	38	121	1.164	65	35.25	9348.4	9639.9
30-Oct-16 03:45:00	36	81	32		194	38	125	1.138	86	35.26	9349.4	9640.6
30-Oct-16 04:00:00	36	80	31		192	38	117	1.051	109	35.27	9350.5	9641.3
30-Oct-16 04:15:00	36	80	31		195	38	121	1.125	94	35.28	9351.5	9642.2
30-Oct-16 04:30:00	36	80	31		192	38	119	1.047	113	35.29	9352.7	9643.1
30-Oct-16 04:45:00	36	80	31		196	38	122	1.029	143	35.30	9353.8	9644.0
30-Oct-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.646.											
30-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=61.23mS@26.9degC,Water Density=1012.8kg/m3@28.4DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-244.2mV2.											
30-Oct-16 05:00:00	36	81	31		202	38	125	1.251	45	35.31	9354.9	9645.0
30-Oct-16 05:15:00	36	80	31		194	38	121	1.025	141	35.33	9355.8	9645.9
30-Oct-16 05:30:00	36	81	31									9646.9
30-Oct-16 05:45:00	36	81	31		193	38	118	1.065	84	35.35	9357.9	9647.9
30-Oct-16 06:00:00	36	79	31		194	38	119	1.212	35	35.36	9358.8	9648.9
30-Oct-16 06:15:00	36	80	31		201	38	122	1.074	121	35.37	9359.9	9649.9
30-Oct-16 06:30:00	36	80	31		194	38	118	1.058	107	35.38	9360.8	9650.8
30-Oct-16 06:45:00	36	81	31		191	38	123	1.139	42	35.39	9361.7	9651.8
30-Oct-16 07:00:00	36	82	32		191	38	120	1.065	113	35.40	9362.7	9652.8
30-Oct-16 07:15:00	36	81	32		190	38	123	0.995	160	35.41	9363.9	9653.6
30-Oct-16 07:30:00	36	80	32		194	38	119	1.031	128	35.43	9365.0	9654.4
30-Oct-16 07:45:00	36	80	32		196	39	119	1.039	125	35.44	9366.0	9655.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
30-Oct-16 08:00:00	Gas SG 0.644.											
30-Oct-16 08:00:00	36	81	33		196	40	122	1.152	66	35.45	9367.1	9656.0
30-Oct-16 08:15:00	36	80	33		194	40	119	0.946	177	35.46	9368.4	9656.8
30-Oct-16 08:30:00	36	80	34		191	40	125	1.056	127	35.47	9369.2	9657.6
30-Oct-16 08:45:00	36	82	34		192	41	122	0.953	185	35.48	9370.5	9658.4
30-Oct-16 09:00:00	36	81	34		191	41	118	1.047	110	35.49	9371.7	9659.2
30-Oct-16 09:15:00	36	81	35		191	42	122	1.040	110	35.50	9372.7	9660.0
30-Oct-16 09:30:00	36	81	36		189	43	118	0.950	164	35.51	9373.9	9660.8
30-Oct-16 09:45:00	36	82	37		190	43	120	0.991	137	35.52	9375.2	9661.6
30-Oct-16 10:00:00	36	80	37		193	43	120	1.083	98	35.54	9376.4	9662.5
30-Oct-16 10:15:00	36	82	37		196	44	123	1.006	141	35.55	9377.4	9663.4
30-Oct-16 10:30:00	36	82	38		187	44	117	0.944	153	35.56	9378.6	9664.3
30-Oct-16 10:45:00	36	81	38		192	44	122	1.052	116	35.57	9379.8	9665.2
30-Oct-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.											
30-Oct-16 11:00:00	Water sample from VX: pH=7, Electrical Conductivity=67.82mS@32.2degC,Water Density=1011.4kg/m3@33.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-253.8mV2.											
30-Oct-16 11:00:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.											
30-Oct-16 11:00:00	36	85	39		194	44	123	1.121	79	35.58	9380.9	9666.1
30-Oct-16 11:15:00	36	80	39		188	45	119	1.045	104	35.59	9382.2	9666.9
30-Oct-16 11:30:00	36	80	40		193	45	123	1.134	79	35.60	9383.3	9667.7
30-Oct-16 11:45:00	36	81	40		190	45	122	1.097	81	35.61	9384.4	9668.5
30-Oct-16 12:00:00	36	80	40		188	45	119	1.064	91	35.62	9385.7	9669.4
30-Oct-16 12:15:00	36	82	40		187	45	120	0.996	127	35.63	9386.7	9670.3
30-Oct-16 12:30:00	36	82	41		187	46	118	1.015	104	35.64	9387.9	9671.2
30-Oct-16 12:45:00	36	81	41		191	46	123	1.036	111	35.65	9389.0	9672.1
30-Oct-16 13:00:00	36	79	41		184	46	123	1.179	51	35.67	9390.3	9673.0
30-Oct-16 13:15:00	36	85	42		205	46	130	1.179	88	35.68	9391.6	9673.8
30-Oct-16 13:30:00	36	81	42		190	47	122	1.034	95	35.69	9392.7	9674.6
30-Oct-16 13:45:00	36	83	42		196	47	125	1.025	137	35.70	9393.8	9675.4
30-Oct-16 14:00:00	Gas SG 0.646.											
30-Oct-16 14:00:00	36	82	42		187	47	121	1.040	107	35.71	9394.8	9676.3
30-Oct-16 14:15:00	36	82	42		204	46	129	1.085	111	35.72	9396.1	9677.1
30-Oct-16 14:30:00	36	82	42		191	45	122	1.100	69	35.73	9397.3	9677.9
30-Oct-16 14:45:00	36	83	41		189	44	121	1.035	107	35.74	9398.7	9678.7
30-Oct-16 15:00:00	36	82	41		188	45	121	0.944	162	35.75	9399.9	9679.5
30-Oct-16 15:15:00	36	83	42		184	46	127	1.025	116	35.76	9401.0	9680.3
30-Oct-16 15:30:00	36	83	42		194	46	121	0.994	138	35.77	9402.1	9681.1
30-Oct-16 15:45:00	36	83	42		191	45	121	1.048	89	35.78	9403.3	9681.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
30-Oct-16 16:00:00	Took ALS sample from Separator, cumulative=9682.7bbls, EC=70.8mS@34.2degC.											
30-Oct-16 16:00:00	36	83	42		193	45	120	1.074	108	35.80	9404.5	9682.7
30-Oct-16 16:15:00	36	84	42		190	45	119	1.121	69	35.81	9405.6	9683.7
30-Oct-16 16:30:00	36	84	42		195	45	123	1.120	60	35.82	9406.7	9684.8
30-Oct-16 16:45:00	36	82	41		186	45	120	1.079	70	35.83	9407.8	9685.8
30-Oct-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.646.											
30-Oct-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=68.35mS@32degC,Water Density=1012.2kg/m3@33.8DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-269mV2.											
30-Oct-16 17:00:00	36	82	41		197	44	121	1.042	111	35.84	9409.1	9686.8
30-Oct-16 17:15:00	36	83	41		196	43	122	1.032	98	35.85	9410.0	9687.4
30-Oct-16 17:30:00	36	82	40		191	43	120	1.099	75	35.86	9411.1	9688.0
30-Oct-16 17:45:00	36	82	40		189	42	120	1.036	102	35.87	9412.3	9688.6
30-Oct-16 18:00:00	36	83	40		212	42	132	1.012	178	35.88	9413.7	9689.1
30-Oct-16 18:15:00	36	81	39		177	42	114	1.001	67	35.89	9414.9	9690.0
30-Oct-16 18:30:00	36	82	39		200	41	124	1.146	65	35.90	9416.0	9691.0
30-Oct-16 18:45:00	36	81	38		187	41	114	1.031	108	35.92	9417.0	9691.9
30-Oct-16 19:00:00	36	82	38		195	41	129	1.039	149	35.93	9418.3	9692.8
30-Oct-16 19:15:00	36	82	37		197	41	121	1.024	145	35.94	9419.5	9693.6
30-Oct-16 19:30:00	36	81	37		191	41	121	1.084	99	35.95	9420.5	9694.4
30-Oct-16 19:45:00	36	82	37		193	41	121	0.968	162	35.96	9421.7	9695.2
30-Oct-16 20:00:00	Gas SG 0.645.											
30-Oct-16 20:00:00	36	81	36		193	41	120	1.021	108	35.97	9422.8	9696.0
30-Oct-16 20:15:00	36	81	36		199	40	125	1.131	96	35.98	9423.7	9697.1
30-Oct-16 20:30:00	36	81	36		198	40	123	0.965	165	35.99	9424.8	9698.1
30-Oct-16 20:45:00	36	81	36		193	40	123	1.186	72	36.00	9425.9	9699.1
30-Oct-16 21:00:00	36	82	35		193	40	120	1.106	95	36.02	9427.0	9700.2
30-Oct-16 21:15:00	36	81	35		195	40	121	1.057	107	36.03	9428.1	9701.0
30-Oct-16 21:30:00	36	81	35		192	40	119	1.063	106	36.04	9429.2	9701.8
30-Oct-16 21:45:00	36	81	34		193	39	122	1.124	72	36.05	9430.2	9702.6
30-Oct-16 22:00:00	36	81	34		198	39	122	1.096	108	36.06	9431.3	9703.4
30-Oct-16 22:15:00	36	80	34		197	39	123	1.169	73	36.07	9432.4	9704.3
30-Oct-16 22:30:00	36	80	34		194	39	124	0.977	130	36.08	9433.4	9705.2
30-Oct-16 22:45:00	36	82	34		202	39	125	1.103	89	36.09	9434.5	9706.1
30-Oct-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.646.											
30-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=59.66mS@25.6degC,Water Density=1013.6kg/m3@27.2DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-205.8mV2.											
30-Oct-16 23:00:00	36	80	34		191	39	122	1.141	57	36.11	9435.5	9707.1
30-Oct-16 23:15:00	36	80	34		193	39	120	1.123	84	36.12	9436.5	9707.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
30-Oct-16 23:30:00	36	80	34		195	39	125	1.180	65	36.13	9437.5	9708.7
30-Oct-16 23:45:00	36	80	34		193	39	122	0.970	172	36.14	9438.8	9709.5
31-Oct-16 00:00:00	36	80	33		201	39	127	0.962	188	36.15	9439.9	9710.3
31-Oct-16 00:15:00	36	80	33		194	39	120	1.161	67	36.16	9441.1	9711.1
31-Oct-16 00:30:00	36	80	33		197	39	122	1.017	140	36.17	9442.3	9711.9
31-Oct-16 00:45:00	36	82	33		195	39	121	1.042	124	36.18	9443.3	9712.7
31-Oct-16 01:00:00	36	80	33		189	38	119	1.134	82	36.20	9444.5	9713.5
31-Oct-16 01:15:00	36	81	33		193	38	119	1.073	96	36.21	9445.5	9714.4
31-Oct-16 01:30:00	36	80	33		199	38	123	1.240	43	36.22	9446.6	9715.4
31-Oct-16 01:45:00	36	80	32		192	38	123	1.028	138	36.23	9447.7	9716.3
31-Oct-16 02:00:00	Gas SG 0.644.											
31-Oct-16 02:00:00	36	81	32		195	38	120	1.173	48	36.24	9448.7	9717.2
31-Oct-16 02:15:00	36	81	32		192	38	117	1.171	37	36.25	9449.8	9718.1
31-Oct-16 02:30:00	36	80	32		193	38	121	1.255	24	36.26	9450.6	9719.0
31-Oct-16 02:45:00	36	81	32		192	38	123	1.001	137	36.28	9451.6	9720.0
31-Oct-16 03:00:00	36	81	32		197	38	120	1.111	76	36.29	9452.4	9720.9
31-Oct-16 03:15:00	36	80	32		196	38	119	1.227	28	36.30	9453.5	9721.8
31-Oct-16 03:30:00	36	79	31		197	38	121	1.133	84	36.31	9454.4	9722.7
31-Oct-16 03:45:00	36	79	31		199	38	123	1.137	90	36.32	9455.3	9723.6
31-Oct-16 04:00:00	36	80	31		197	38	120	1.139	81	36.33	9456.3	9724.5
31-Oct-16 04:15:00	36	80	31		199	38	123	1.000	161	36.34	9457.4	9725.4
31-Oct-16 04:30:00	36	81	31		194	38	122	1.008	115	36.36	9458.2	9726.2
31-Oct-16 04:45:00	36	81	31		199	38	122	1.081	120	36.37	9459.0	9727.0
31-Oct-16 05:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.648.											
31-Oct-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=59.99mS@25.7degC,Water Density=1013.2kg/m3@27.8DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-225.7mV2.											
31-Oct-16 05:00:00	36	80	31		194	38	118	1.258	23	36.38	9460.1	9727.8
31-Oct-16 05:15:00	36	80	31		195	38	119	1.084	80	36.39	9461.2	9728.6
31-Oct-16 05:30:00	36	79	31									9729.4
31-Oct-16 05:45:00	36	81	31		196	38	119	0.979	147	36.41	9463.1	9730.2
31-Oct-16 06:00:00	36	81	31		192	38	118	1.298	13	36.42	9464.0	9731.0
31-Oct-16 06:15:00	36	80	31		197	38	120	1.242	30	36.43	9464.8	9731.9
31-Oct-16 06:30:00	36	81	31		196	38	121	1.109	84	36.45	9465.7	9732.8
31-Oct-16 06:45:00	36	81	31		192	38	119	1.092	87	36.46	9466.8	9733.8
31-Oct-16 07:00:00	36	81	31		190	38	119	1.091	67	36.47	9467.6	9734.7
31-Oct-16 07:15:00	36	81	32		191	39	117	1.068	107	36.48	9468.7	9735.4
31-Oct-16 07:30:00	36	80	32		192	39	120	0.978	158	36.49	9469.5	9736.1
31-Oct-16 07:45:00	36	80	33		196	39	120	0.999	144	36.50	9471.0	9736.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
31-Oct-16 08:00:00	Gas SG=0.644.											
31-Oct-16 08:00:00	36	81	33		188	40	122	1.067	95	36.51	9472.0	9737.4
31-Oct-16 08:15:00	36	81	34		194	40	120	1.061	108	36.52	9473.2	9738.5
31-Oct-16 08:30:00	36	81	34		188	41	122	1.098	68	36.54	9474.3	9739.5
31-Oct-16 08:45:00	36	81	35		196	41	121	1.130	92	36.55	9475.4	9740.5
31-Oct-16 09:00:00	36	82	35		192	42	120	0.982	151	36.56	9476.7	9741.6
31-Oct-16 09:15:00	36	81	36		191	42	118	0.906	185	36.57	9477.7	9742.4
31-Oct-16 09:30:00	36	82	36		195	43	121	1.024	109	36.58	9478.8	9743.2
31-Oct-16 09:45:00	36	81	37		191	43	121	1.060	111	36.59	9479.7	9744.0
31-Oct-16 10:00:00	36	80	37		188	43	117	0.981	131	36.60	9480.9	9744.8
31-Oct-16 10:15:00	36	81	38		190	44	121	1.108	80	36.61	9482.1	9745.6
31-Oct-16 10:30:00	36	81	38		189	44	120	1.017	110	36.62	9483.2	9746.4
31-Oct-16 10:45:00	36	83	38		191	43	125	1.165	47	36.63	9484.5	9747.2
31-Oct-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
31-Oct-16 11:00:00	36	82	39		186	45	119	1.061	96	36.64	9485.9	9748.0
31-Oct-16 11:01:00	Water sample from VX: pH=7, Electrical Conductivity=66.3mS@31.6degC,Water Density=1011.2kg/m3@31.6DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-238.5mV2.											
31-Oct-16 11:01:00	Flushed VX water port, observed approx. 2cc of sands accumulated over 24hours.											
31-Oct-16 11:15:00	Pumped 61.8 bbls from tank to pond.											
31-Oct-16 11:15:00	36	82	39		191	43	121	1.047	100	36.65	9487.1	9748.8
31-Oct-16 11:30:00	36	83	39		188	44	120	1.010	122	36.67	9488.1	9749.6
31-Oct-16 11:45:00	36	81	39		192	43	120	0.905	186	36.68	9489.2	9750.4
31-Oct-16 12:00:00	36	83	39		191	44	123	1.011	135	36.69	9490.3	9751.2
31-Oct-16 12:15:00	36	83	39		190	44	124	0.936	160	36.70	9491.7	9752.1
31-Oct-16 12:30:00	36	83	40		189	45	121	1.241	13	36.71	9492.6	9753.1
31-Oct-16 12:45:00	36	82	40		188	46	122	0.947	138	36.72	9493.8	9754.0
31-Oct-16 13:00:00	36	82	41		189	46	123	1.037	114	36.73	9495.1	9754.9
31-Oct-16 13:15:00	36	83	41		193	45	124	1.162	50	36.74	9496.2	9755.8
31-Oct-16 13:30:00	36	83	40		190	43	118	1.004	104	36.75	9497.5	9756.8
31-Oct-16 13:45:00	36	82	40		189	44	119	1.135	64	36.76	9498.4	9757.7
31-Oct-16 14:00:00	Gas SG=0.644.											
31-Oct-16 14:00:00	36	83	41		190	46	126	1.128	76	36.77	9499.6	9758.6
31-Oct-16 14:15:00	36	83	41		192	47	121	1.165	48	36.78	9500.7	9759.3
31-Oct-16 14:30:00	36	83	42		190	46	122	1.049	106	36.80	9501.9	9760.0
31-Oct-16 14:45:00	36	83	42		193	45	118	1.166	45	36.81	9503.1	9760.7
31-Oct-16 15:00:00	36	83	41		190	44	120	0.939	166	36.82	9504.2	9761.4
31-Oct-16 15:15:00	36	81	41		196	44	122	1.000	149	36.83	9505.7	9762.2
31-Oct-16 15:30:00	36	82	40		195	43	119	1.046	121	36.84	9506.6	9763.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
31-Oct-16 15:45:00	36	82	40		193	43	120	0.864	204	36.85	9507.6	9763.8
31-Oct-16 16:00:00	36	83	39		190	42	122	1.036	129	36.86	9508.7	9764.6
31-Oct-16 16:15:00	36	83	39		189	42	122	1.105	91	36.87	9509.8	9765.6
31-Oct-16 16:30:00	36	82	38		193	42	118	1.122	72	36.88	9510.9	9766.6
31-Oct-16 16:45:00	36	82	38		195	42	121	1.050	92	36.89	9511.8	9767.7
31-Oct-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
31-Oct-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=66.4mS@31.1degC,Water Density=1013.6kg/m3@31.1DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-222mV2.											
31-Oct-16 17:00:00	36	80	38		190	42	126	1.046	107	36.91	9512.7	9768.7
31-Oct-16 17:01:00	MP on 36/64" Fixed Choke.											
31-Oct-16 17:01:00	Lowered 1.75" Orifice Plate.											
31-Oct-16 17:15:00	36	80	38	1.006	199	42	123	1.075	116	36.92	9513.7	9769.6
31-Oct-16 17:30:00	36	82	38	1.013	191	42	122	1.157	58	36.93	9514.9	9770.5
31-Oct-16 17:45:00	36	83	38	1.007	194	42	125	1.172	61	36.94	9515.9	9771.5
31-Oct-16 18:00:00	36	83	38	1.015	193	41	121	1.013	133	36.95	9517.0	9772.4
31-Oct-16 18:15:00	36	83	37	1.011	190	41	125	1.100	98	36.96	9518.3	9773.2
31-Oct-16 18:30:00	36	82	37	1.009	191	41	122	1.169	48	36.97	9519.3	9774.0
31-Oct-16 18:45:00	36	83	37	1.012	199	41	123	1.119	95	36.98	9520.2	9774.8
31-Oct-16 19:00:00	36	82	37	1.011	191	40	123	1.136	62	36.99	9521.3	9775.6
31-Oct-16 19:15:00	36	83	36	1.011	189	40	117	1.026	115	37.00	9522.6	9776.4
31-Oct-16 19:30:00	36	82	36	1.007	197	40	122	1.016	141	37.01	9524.0	9777.2
31-Oct-16 19:45:00	36	83	36	1.011	193	40	120	1.057	99	37.03	9525.0	9778.0
31-Oct-16 20:00:00	Gas SG=0.644.											
31-Oct-16 20:00:00	36	82	36	1.006	196	40	120	0.964	168	37.04	9526.0	9778.8
31-Oct-16 20:15:00	36	82	35	1.010	191	40	121	1.111	83	37.05	9527.2	9779.8
31-Oct-16 20:30:00	36	81	35	1.005	193	40	122	1.091	82	37.06	9528.1	9780.7
31-Oct-16 20:45:00	36	83	35	1.010	189	40	123	1.063	107	37.07	9529.2	9781.6
31-Oct-16 21:00:00	36	82	35	1.008	194	40	121	0.968	132	37.08	9530.4	9782.5
31-Oct-16 21:15:00	36	81	35	1.013	191	40	117	1.105	62	37.09	9531.4	9783.3
31-Oct-16 21:30:00	36	82	35	1.010								9784.1
31-Oct-16 21:45:00	36	82	35	1.015	195	40	120	1.048	128	37.11	9533.3	9784.9
31-Oct-16 22:00:00	36	82	35	1.011	196	39	121	1.095	90	37.12	9534.4	9785.7
31-Oct-16 22:15:00	36	81	35	1.013	192	39	120	0.982	154	37.13	9535.5	9786.6
31-Oct-16 22:30:00	36	82	34	1.007	192	39	119	1.072	95	37.15	9536.5	9787.6
31-Oct-16 22:45:00	36	83	34	1.010	195	40	120	1.188	37	37.16	9537.4	9788.5
31-Oct-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
31-Oct-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=60.98mS@25.6degC,Water Density=1013.5kg/m3@27.5DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-287.5mV2.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
31-Oct-16 23:00:00	36	82	34	1.016	191	40	119	1.064	77	37.17	9538.2	9789.4
31-Oct-16 23:15:00	36	81	34	1.003	195	40	127	1.064	138	37.18	9539.2	9790.2
31-Oct-16 23:30:00	36	81	34	1.017	194	40	120	1.199	32	37.19	9540.0	9791.0
31-Oct-16 23:45:00	36	82	34	1.011	193	39	124	0.981	166	37.20	9541.2	9791.8
01-Nov-16 00:00:00	36	82	34	1.012	192	39	123	1.033	110	37.22	9541.9	9792.6
01-Nov-16 00:15:00	36	82	34	1.012	193	39	121	1.171	56	37.23	9542.8	9793.4
01-Nov-16 00:30:00	36	82	34	1.010	189	39	120	0.959	143	37.24	9543.8	9794.2
01-Nov-16 00:45:00	36	81	34	1.009	193	39	124	1.120	92	37.25	9544.9	9795.0
01-Nov-16 01:00:00	36	82	33	1.013	191	39	117	1.163	50	37.26	9545.9	9795.9
01-Nov-16 01:15:00	36	82	33	1.012	191	39	121	1.013	136	37.27	9547.1	9796.7
01-Nov-16 01:30:00	36	82	33	1.009	197	39	122	1.030	136	37.28	9548.1	9797.5
01-Nov-16 01:45:00	36	81	33	1.014	192	39	120	1.040	124	37.29	9549.1	9798.3
01-Nov-16 02:00:00	Gas SG=0.646.											
01-Nov-16 02:00:00	36	82	33	1.010	197	39	121	1.363	3	37.31	9550.1	9799.1
01-Nov-16 02:15:00	36	82	33	1.009	190	39	124	0.940	178	37.32	9551.0	9800.1
01-Nov-16 02:30:00	36	82	33	1.012	193	36	124	1.305	16	37.33	9552.0	9801.1
01-Nov-16 02:45:00	36	81	31	1.008	190	32	118	1.188	39	37.34	9552.8	9802.2
01-Nov-16 03:00:00	36	83	29	1.007	194	33	118	1.119	65	37.35	9553.7	9803.2
01-Nov-16 03:15:00	36	81	29	1.009	195	35	119	1.228	35	37.36	9554.5	9803.9
01-Nov-16 03:30:00	36	81	29	1.008	197	35	118	1.078	96	37.37	9555.3	9804.6
01-Nov-16 03:45:00	36	82	29	1.010	195	35	119	1.272	17	37.39	9556.2	9805.3
01-Nov-16 04:00:00	36	81	29	1.013	197	36	119	1.181	49	37.40	9557.1	9806.0
01-Nov-16 04:15:00	36	81	29	1.012	196	36	118	1.032	126	37.41	9558.0	9806.8
01-Nov-16 04:30:00	36	82	29	1.011	193	36	118	0.981	150	37.42	9559.1	9807.6
01-Nov-16 04:45:00	36	82	29	1.012	193	36	121	1.148	77	37.43	9560.2	9808.4
01-Nov-16 05:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.646.											
01-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=57.45mS@23.6degC,Water Density=1013.8kg/m3@25.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-297mV2.											
01-Nov-16 05:00:00	Pumped 61.64bbls from tank to pond.											
01-Nov-16 05:00:00	36	81	29	1.011	189	35	115	1.105	76	37.44	9561.2	9809.2
01-Nov-16 05:15:00	36	81	29	1.014	191	35	121	1.128	82	37.45	9562.3	9809.9
01-Nov-16 05:30:00	36	81	29	1.007								9810.6
01-Nov-16 05:45:00	36	80	29	1.010	192	36	118	1.105	92	37.47	9564.3	9811.3
01-Nov-16 06:00:00	36	81	29	1.007	191	36	118	1.079	98	37.49	9565.3	9812.0
01-Nov-16 06:15:00	36	80	29	1.007	198	36	121	0.983	173	37.50	9566.4	9813.0
01-Nov-16 06:30:00	36	81	29	1.009	196	36	121	1.011	162	37.51	9567.4	9814.0
01-Nov-16 06:45:00	36	81	29	1.014	193	36	118	0.936	188	37.52	9568.4	9815.1
01-Nov-16 07:00:00	36	81	29	1.011	198	36	119	1.145	69	37.53	9569.2	9816.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
01-Nov-16 07:15:00	36	80	29	1.013	191	37	115	1.067	70	37.54	9570.0	9816.9
01-Nov-16 07:30:00	36	81	29	1.011	187	37	119	1.107	72	37.55	9571.0	9817.7
01-Nov-16 07:45:00	36	81	30	1.009	191	37	123	1.228	34	37.57	9572.0	9818.5
01-Nov-16 08:00:00	Gas SG 0.644.											
01-Nov-16 08:00:00	36	82	30	1.011	192	38	117	1.035	102	37.58	9573.2	9819.3
01-Nov-16 08:15:00	36	81	30	1.011	187	38	120	1.127	70	37.59	9574.1	9820.0
01-Nov-16 08:30:00	36	82	31	1.015	192	38	122	0.992	145	37.60	9575.0	9820.7
01-Nov-16 08:45:00	36	82	31	1.015	188	38	116	1.007	109	37.61	9576.0	9821.4
01-Nov-16 09:00:00	36	83	31	1.008	193	38	118	1.109	70	37.62	9577.0	9822.1
01-Nov-16 09:15:00	36	81	31	1.013	193	37	116	1.012	91	37.63	9578.0	9822.1
01-Nov-16 09:30:00	Started raining heavily, tank volumes may be slightly affected.											
01-Nov-16 09:30:00	36	81	29	1.011	192	30	114	0.954	136	37.64	9578.9	9822.1
01-Nov-16 09:45:00	36	81	27	1.012	189	28	115	1.120	65	37.66	9579.6	9822.1
01-Nov-16 10:00:00	36	81	25	1.013	188	28	115	1.186	62	37.67	9580.7	9822.1
01-Nov-16 10:15:00	36	81	24	1.012	192	28	116	1.091	96	37.68	9581.7	9824.3
01-Nov-16 10:30:00	36	82	24	1.011	196	30	117	1.148	62	37.69	9582.6	9826.4
01-Nov-16 10:45:00	36	80	24	1.013	192	30	113	1.144	60	37.70	9583.6	9828.6
01-Nov-16 11:00:00	Electrical Storm in area, decided to stop climbing on top of tank for straps until it had passed.											
01-Nov-16 11:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.08mS@21degC,Water Density=1014.7kg/m3@22.8DegC, Dissolved Oxygen=1.3%, Oxidation Reduction Potential=-264.3mV2.											
01-Nov-16 11:00:00	BSW 100% no solids. H2S 9ppm, CO2 4%, Gas SG 0.642.											
01-Nov-16 11:00:00	36	80	24	1.005	190	29	115	1.062	91	37.71	9584.5	9830.8
01-Nov-16 11:05:00	Flushed VX water port, found approx. 2cc of sand in sample.											
01-Nov-16 11:15:00	36	82	24	1.015	195	30	120	1.022	131	37.72	9585.6	9830.8
01-Nov-16 11:30:00	36	80	24	1.016	191	28	115	1.220	6	37.74	9586.5	9830.8
01-Nov-16 11:45:00	36	81	23	1.016	189	28	115	0.927	175	37.75	9587.3	9830.8
01-Nov-16 12:00:00	36	81	23	1.006	191	29	120	1.018	138	37.76	9588.1	9830.8
01-Nov-16 12:15:00	36	81	23	1.017	193	31	119	1.179	56	37.77	9589.0	9833.5
01-Nov-16 12:30:00	36	81	24	1.016	187	30	114	1.028	97	37.78	9589.7	9836.1
01-Nov-16 12:45:00	36	81	24	1.012	190	31	117	1.005	138	37.79	9590.6	9838.7
01-Nov-16 13:00:00	Observed an increase of around 1bbl per hour at tank since rain started.											
01-Nov-16 13:00:00	36	81	24	1.010	194	31	117	0.968	168	37.80	9591.7	9841.4
01-Nov-16 13:15:00	36	81	25	1.013	190	32	115	1.159	61	37.82	9592.9	9842.1
01-Nov-16 13:30:00	Rain stopped.											
01-Nov-16 13:30:00	36	81	25	1.013	196	33	120	1.170	55	37.83	9593.8	9842.8
01-Nov-16 13:45:00	36	81	25	1.015	189	34	116	1.036	100	37.84	9594.8	9843.5
01-Nov-16 14:00:00	Gas SG 0.644.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
01-Nov-16 14:00:00	36	81	26	1.014	193	36	118	1.154	59	37.85	9595.7	9844.2
01-Nov-16 14:15:00	36	80	27	1.017	190	37	123	1.063	95	37.86	9596.7	9845.0
01-Nov-16 14:30:00	36	80	28	1.013	189	38	121	1.092	60	37.87	9597.4	9845.8
01-Nov-16 14:45:00	36	80	29	1.017	194	38	118	1.133	76	37.88	9598.6	9846.6
01-Nov-16 15:00:00	36	82	30	1.017	187	38	119	1.003	122	37.89	9599.6	9847.4
01-Nov-16 15:15:00	36	80	30	1.016	189	38	118	0.986	144	37.91	9600.6	9848.4
01-Nov-16 15:30:00	36	81	31	1.007	191	38	119	0.963	153	37.92	9601.8	9849.4
01-Nov-16 15:45:00	36	83	31	1.022	184	38	114	1.028	100	37.93	9602.9	9850.5
01-Nov-16 16:00:00	36	82	31	1.017	195	38	120	1.081	100	37.94	9603.8	9851.5
01-Nov-16 16:15:00	36	82	31	1.017	188	38	115	0.945	150	37.95	9604.6	9852.2
01-Nov-16 16:30:00	36	83	31	1.011	191	38	123	0.952	168	37.96	9605.6	9852.9
01-Nov-16 16:45:00	36	83	31	1.016	192	38	118	0.946	181	37.97	9606.8	9853.6
01-Nov-16 17:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.644.											
01-Nov-16 17:00:00	Water sample from VX: pH=7, Electrical Conductivity=55.55mS@24.4degC,Water Density=1014kg/m3@25.9DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-192.7mV2.											
01-Nov-16 17:00:00	Took Isotube sample #36 from separator gas line at 82.5psia 31deg C.											
01-Nov-16 17:00:00	36	82	31	1.009	188	37	117	1.023	116	37.98	9607.6	9854.3
01-Nov-16 17:15:00	36	82	31	1.018	188	37	115	1.155	54	37.99	9608.2	9855.4
01-Nov-16 17:30:00	36	81	31	1.006	195	37	119	0.966	144	38.00	9609.2	9856.6
01-Nov-16 17:45:00	36	82	30	1.012	192	37	118	0.940	163	38.02	9610.3	9857.7
01-Nov-16 18:00:00	36	84	30	1.020	187	37	116	1.055	85	38.03	9611.3	9858.9
01-Nov-16 18:15:00	36	82	30	1.011	189	37	116	0.964	141	38.04	9612.5	9859.6
01-Nov-16 18:30:00	36	83	30	1.011	186	37	115	1.058	95	38.05	9613.3	9860.3
01-Nov-16 18:45:00	36	84	31	1.015	187	37	115	1.027	107	38.06	9614.4	9860.9
01-Nov-16 19:00:00	36	83	31	1.010	192	37	120	1.007	121	38.07	9615.2	9861.6
01-Nov-16 19:15:00	36	84	31	1.016	184	37	116	1.054	77	38.08	9616.2	9862.6
01-Nov-16 19:30:00	36	80	31	1.001	185	37	112	1.127	37	38.09	9617.0	9863.5
01-Nov-16 19:45:00	36	87	31	1.006	206	38	127	1.004	188	38.11	9618.1	9864.4
01-Nov-16 20:00:00	Gas SG 0.644.											
01-Nov-16 20:00:00	36	82	31	1.032	187	37	115	0.983	119	38.12	9618.9	9865.3
01-Nov-16 20:15:00	36	85	31	1.016	192	37	120	1.140	67	38.13	9619.9	9866.2
01-Nov-16 20:30:00	36	84	31	1.014	194	37	118	1.137	74	38.14	9620.9	9867.1
01-Nov-16 20:45:00	36	85	31	1.017	197	37	119	1.142	66	38.15	9621.8	9868.1
01-Nov-16 21:00:00	36	83	31	1.014	190	37	121	1.038	127	38.16	9622.7	9869.0
01-Nov-16 21:15:00	36	84	31	1.012	197	37	119	1.094	108	38.17	9623.7	9869.7
01-Nov-16 21:30:00	36	85	31	1.017	189	37	121	1.115	100	38.18	9624.6	9870.4
01-Nov-16 21:45:00	36	85	31	1.012	187	37	115	1.161	33	38.20	9625.6	9871.1
01-Nov-16 22:00:00	Pumped out 68 bbls from tank to pond.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
01-Nov-16 22:00:00	36	85	31	1.011	195	37	116	1.087	82	38.21	9626.5	9871.8
01-Nov-16 22:15:00	36	85	31	1.014	195	37	117	1.005	127	38.22	9627.2	9872.4
01-Nov-16 22:30:00	36	85	31	1.015	188	37	113	0.948	147	38.23	9628.3	9873.1
01-Nov-16 22:45:00	36	84	31	1.011	191	37	117	1.088	85	38.24	9629.3	9873.8
01-Nov-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.644.											
01-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.79mS@24.1degC,Water Density=1014.5kg/m3@25.2DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-204.6mV2.											
01-Nov-16 23:00:00	36	84	31	1.016	191	37	117	0.974	140	38.25	9630.4	9874.5
01-Nov-16 23:15:00	36	84	31	1.011	188	37	116	1.071	87	38.26	9631.4	9875.3
01-Nov-16 23:30:00	36	84	30	1.006	199	37	119	0.949	176	38.27	9632.4	9876.1
01-Nov-16 23:45:00	36	84	30	1.011	197	37	120	1.105	101	38.29	9633.4	9876.9
02-Nov-16 00:00:00	36	86	30	1.017	190	37	118	1.023	116	38.30	9634.3	9877.7
02-Nov-16 00:15:00	36	85	30	1.016	189	37	114	1.144	53	38.31	9634.9	9878.5
02-Nov-16 00:30:00	36	86	30	1.010	192	37	115	1.118	77	38.32	9635.8	9879.3
02-Nov-16 00:45:00	36	85	30	1.017	189	37	114	1.149	47	38.33	9636.6	9880.1
02-Nov-16 01:00:00	36	85	30	1.005	189	37	115	0.983	130	38.34	9637.7	9881.0
02-Nov-16 01:15:00	36	85	30	1.027	184	37	121	1.036	111	38.35	9638.5	9881.9
02-Nov-16 01:30:00	36	86	30	1.013	190	37	114	1.223	24	38.37	9639.3	9882.8
02-Nov-16 01:45:00	36	86	30	1.019	192	37	114	1.030	115	38.38	9640.2	9883.7
02-Nov-16 02:00:00	Gas SG 0.644.											
02-Nov-16 02:00:00	36	84	30	1.011	190	37	119	1.022	122	38.39	9641.2	9884.6
02-Nov-16 02:15:00	36	86	30	1.014	195	37	117	1.097	92	38.40	9642.2	9885.4
02-Nov-16 02:30:00	36	84	30	1.016	192	37	115	1.226	20	38.41	9643.1	9886.2
02-Nov-16 02:45:00	36	85	30	1.011	196	37	118	0.978	153	38.42	9643.8	9887.0
02-Nov-16 03:00:00	36	85	30	1.015	198	37	120	1.180	49	38.43	9644.7	9887.9
02-Nov-16 03:15:00	36	85	30	1.012	197	36	120	1.040	127	38.45	9645.8	9888.7
02-Nov-16 03:30:00	36	86	30	1.013	197	36	118	1.043	111	38.46	9646.9	9889.5
02-Nov-16 03:45:00	36	85	29	1.012	194	36	117	1.102	73	38.47	9647.6	9890.3
02-Nov-16 04:00:00	36	86	29	1.016	195	36	119	1.137	71	38.48	9648.5	9891.1
02-Nov-16 04:15:00	36	87	29	1.018	194	36	115	1.098	87	38.49	9649.5	9891.9
02-Nov-16 04:30:00	36	87	29	1.017	190	36	114	1.210	35	38.50	9650.3	9892.7
02-Nov-16 04:45:00	36	86	29	1.014	191	36	117	0.958	160	38.51	9651.4	9893.5
02-Nov-16 05:00:00	BSW 100% no solids, H2S 9ppm, CO2 4%, Gas SG 0.646.											
02-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.32mS@23degC,Water Density=1014.4kg/m3@25.1DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-224.4mV2.											
02-Nov-16 05:00:00	36	86	29	1.012	191	35	114	1.131	48	38.52	9652.1	9894.3
02-Nov-16 05:15:00	36	87	29	1.012	191	35	115	1.041	115	38.54	9653.1	9895.1
02-Nov-16 05:30:00	36	87	28	1.013								9895.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
02-Nov-16 05:45:00	36	87	28	1.015	188	35	118	1.031	121	38.56	9655.0	9896.7
02-Nov-16 06:00:00	36	87	28	1.009	190	35	117	1.067	82	38.57	9655.9	9897.5
02-Nov-16 06:15:00	36	87	28	1.012	193	35	121	1.172	64	38.58	9656.7	9898.2
02-Nov-16 06:30:00	36	86	28	1.013	189	35	119	1.147	64	38.59	9657.6	9898.9
02-Nov-16 06:42:41	Checked barton scrubbers for carry over.											
02-Nov-16 06:45:00	36	88	28	0.993	191	36	115	1.126	78	38.60	9658.9	9899.6
02-Nov-16 07:00:00	36	87	28	1.009	190	36	116	1.005	118	38.61	9659.8	9900.3
02-Nov-16 07:15:00	36	88	29	1.009	189	37	116	1.017	107	38.62	9660.8	9901.2
02-Nov-16 07:30:00	36	87	29	1.015	188	37	117	0.932	166	38.63	9662.1	9902.1
02-Nov-16 07:45:00	36	88	30	1.013	193	38	117	1.096	69	38.65	9663.0	9903.0
02-Nov-16 08:00:00	Gas SG 0.642.											
02-Nov-16 08:00:00	36	87	31	1.013	190	38	121	0.987	152	38.66	9664.0	9904.0
02-Nov-16 08:01:50	Checked barton scrubbers for carry over.											
02-Nov-16 08:15:00	36	86	31	1.009	193	38	117	1.019	129	38.67	9665.0	9904.8
02-Nov-16 08:30:00	36	89	31	1.017	195	39	118	1.213	37	38.68	9666.0	9905.6
02-Nov-16 08:45:00	36	86	32	1.019	192	39	118	1.283	2	38.69	9666.9	9906.4
02-Nov-16 09:00:00	36	88	32	1.018	190	39	121	1.031	117	38.70	9667.9	9907.2
02-Nov-16 09:02:00	WHP dropping, well slugging.											
02-Nov-16 09:06:00	Raised 1.75" Orifice Plate.											
02-Nov-16 09:06:00	End of MP.											
02-Nov-16 09:15:00	36	87	33		217	40	132	1.104	150	38.71	9669.0	9908.1
02-Nov-16 09:30:00	36	96	34		202	40	126	1.104	101	38.72	9670.2	9909.0
02-Nov-16 09:42:00	Separator pressure had been creeping up slightly over past 12 hours, started to slowly adjust back down to previous setting.											
02-Nov-16 09:45:00	36	88	34		185	40	116	1.157	41	38.74	9671.0	9909.9
02-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=9911bbls, EC=61.07mS@29.7degC.											
02-Nov-16 10:00:00	36	89	34		191	41	120	1.191	40	38.75	9672.1	9910.9
02-Nov-16 10:15:00	36	89	34		187	41	116	1.143	62	38.76	9673.1	9911.4
02-Nov-16 10:30:00	36	88	35		184	41	116	0.952	135	38.77	9673.8	9912.0
02-Nov-16 10:45:00	36	87	35		188	42	116	1.039	95	38.78	9674.8	9912.6
02-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 3.5%, Gas SG 0.642											
02-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=60.53mS@28.8degC,Water Density=1012.8kg/m3@29.5DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-181mV2, Salinity 38000ppm											
02-Nov-16 11:00:00	36	87	36		187	42	117	1.080	73	38.79	9675.6	9913.1
02-Nov-16 11:05:00	Went to flush VX water port after slug, found it plugged.											
02-Nov-16 11:10:00	Used HP pump to clear VX water port.											
02-Nov-16 11:15:00	Flushed VX water port, collected approx. 50cc of sand from port.											
02-Nov-16 11:15:00	36	88	36		185	43	121	1.066	109	38.80	9676.8	9914.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
02-Nov-16 11:30:00	36	89	37		185	43	117	0.940	149	38.81	9677.9	9914.8
02-Nov-16 11:45:00	36	88	37		184	43	118	1.034	96	38.82	9678.7	9915.6
02-Nov-16 12:00:00	36	89	37		182	43	113	0.944	128	38.83	9679.8	9916.4
02-Nov-16 12:15:00	36	88	37		182	43	117	1.062	76	38.84	9681.0	9917.2
02-Nov-16 12:30:00	36	88	38		190	43	120	1.018	105	38.86	9682.1	9918.0
02-Nov-16 12:45:00	36	87	38		181	43	114	0.953	117	38.87	9683.2	9918.8
02-Nov-16 13:00:00	36	88	38		191	44	124	1.053	117	38.88	9684.3	9919.6
02-Nov-16 13:05:00	Separator pressure dropped 17psi to 73 psia whilst adjusting.											
02-Nov-16 13:06:00	Started slowly increasing Separator pressure up to 80psia.											
02-Nov-16 13:15:00	36	73	38		187	44	121	1.012	127	38.89	9685.2	9920.4
02-Nov-16 13:30:00	36	81	39		188	44	121	1.044	109	38.90	9686.2	9921.2
02-Nov-16 13:45:00	36	81	39		187	44	118	0.947	158	38.91	9687.2	9922.0
02-Nov-16 14:00:00	Gas SG 0.642.											
02-Nov-16 14:00:00	36	81	39		189	44	118	1.089	79	38.92	9688.2	9922.8
02-Nov-16 14:03:00	MP on 36/64" Fixed Choke.											
02-Nov-16 14:03:00	Lowered 1.75" Orifice Plate.											
02-Nov-16 14:15:00	36	79	39	1.016	191	44	121	1.092	106	38.93	9689.4	9923.7
02-Nov-16 14:30:00	36	79	39	1.021	189	44	118	1.075	86	38.94	9690.4	9924.6
02-Nov-16 14:45:00	36	79	39	1.022	190	44	118	1.159	46	38.95	9691.3	9925.6
02-Nov-16 15:00:00	36	80	39	1.019	194	44	121	0.976	172	38.96	9692.6	9926.5
02-Nov-16 15:15:00	36	79	39	1.018	192	44	119	1.084	82	38.97	9693.6	9927.2
02-Nov-16 15:30:00	36	80	39	1.017	190	43	122	0.989	146	38.99	9694.6	9927.9
02-Nov-16 15:45:00	36	80	39	1.029	185	43	117	0.931	154	39.00	9695.8	9928.6
02-Nov-16 16:00:00	36	79	39	1.014	193	43	119	1.180	53	39.01	9696.8	9929.3
02-Nov-16 16:15:00	36	81	39	1.020	192	43	119	1.002	128	39.02	9697.7	9929.9
02-Nov-16 16:30:00	36	80	39	1.021	185	43	117	1.170	15	39.03	9698.9	9930.6
02-Nov-16 16:45:00	36	79	39	1.022	190	43	118	1.040	113	39.04	9699.9	9931.3
02-Nov-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.642.											
02-Nov-16 17:00:00	Water sample from VX: pH=6.2, Electrical Conductivity=62.68mS@30.3degC, Water Density=1012.6kg/m3@31.6DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-134.9mV2, Salinity=38000ppm.											
02-Nov-16 17:00:00	36	79	38	1.018	190	42	124	1.045	113	39.05	9701.2	9932.0
02-Nov-16 17:10:00	Pumped out 58 bbls from tank to pond.											
02-Nov-16 17:15:00	36	80	38	1.024	186	42	118	0.896	179	39.06	9702.2	9932.8
02-Nov-16 17:30:00	36	79	38	1.017	188	41	126	1.006	138	39.07	9703.2	9933.6
02-Nov-16 17:45:00	36	79	38	1.018	187	41	116	1.076	81	39.08	9704.2	9934.4
02-Nov-16 18:00:00	36	79	37	1.022	190	40	118	1.169	28	39.09	9705.2	9935.2
02-Nov-16 18:15:00	36	79	37	1.020	185	40	117	1.134	42	39.10	9706.3	9935.8
02-Nov-16 18:30:00	36	79	36	1.022	190	40	115	1.112	68	39.12	9707.3	9936.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
02-Nov-16 18:45:00	36	77	36	1.014	190	39	119	1.170	49	39.13	9708.3	9937.0
02-Nov-16 19:00:00	36	79	35	1.012	188	39	117	1.016	134	39.14	9709.5	9937.5
02-Nov-16 19:15:00	36	78	35	1.017	192	39	116	1.041	99	39.15	9710.4	9938.3
02-Nov-16 19:30:00	36	78	34	1.020	193	39	120	0.996	137	39.16	9711.4	9939.1
02-Nov-16 19:45:00	36	77	34	1.017	191	39	117	1.119	82	39.17	9712.4	9939.9
02-Nov-16 20:00:00	Gas SG 0.644.											
02-Nov-16 20:00:00	36	78	34	1.015	194	39	121	1.073	122	39.18	9713.5	9940.8
02-Nov-16 20:15:00	36	78	33	1.012	188	38	118	1.121	72	39.19	9714.5	9941.4
02-Nov-16 20:30:00	36	78	33	1.022	191	38	117	1.110	80	39.20	9715.4	9942.1
02-Nov-16 20:45:00	36	78	33	1.020	187	38	117	1.119	66	39.22	9716.4	9942.8
02-Nov-16 21:00:00	36	77	33	1.014	193	38	117	1.130	75	39.23	9717.5	9943.5
02-Nov-16 21:15:00	36	78	33	1.015	193	38	125	1.124	87	39.24	9718.4	9944.2
02-Nov-16 21:30:00	36	78	32	1.016	190	38	115	1.177	34	39.25	9719.3	9944.9
02-Nov-16 21:45:00	36	77	32	1.017	189	38	113	0.971	106	39.26	9720.3	9945.6
02-Nov-16 22:00:00	36	79	32	1.015	191	38	116	1.043	117	39.27	9721.6	9946.3
02-Nov-16 22:15:00	36	78	32	1.015	193	38	117	1.066	93	39.28	9722.4	9947.1
02-Nov-16 22:30:00	36	78	32	1.014	199	38	120	1.156	57	39.29	9723.2	9947.9
02-Nov-16 22:45:00	36	78	32	1.021	190	38	117	1.087	89	39.31	9724.1	9948.7
02-Nov-16 23:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.646.											
02-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.91mS@23.73degC, Water Density=1014.4kg/m3@25.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-125.9mV2, Salinity=37000ppm.											
02-Nov-16 23:00:00	36	78	32	1.017	192	38	117	1.226	29	39.32	9725.1	9949.5
02-Nov-16 23:15:00	36	77	32	1.015	192	38	117	0.954	170	39.33	9726.3	9950.4
02-Nov-16 23:30:00	36	78	31	1.016	193	38	116	1.151	60	39.34	9727.3	9951.3
02-Nov-16 23:45:00	36	77	31	1.015	195	38	119	1.001	136	39.35	9728.2	9952.3
03-Nov-16 00:00:00	36	77	31	1.018	193	38	117	1.049	99	39.36	9729.1	9953.2
03-Nov-16 00:15:00	36	78	31	1.013	187	38	116	1.086	82	39.37	9730.1	9954.1
03-Nov-16 00:30:00	36	78	31	1.017	192	38	116	1.171	60	39.38	9731.1	9955.0
03-Nov-16 00:45:00	36	78	31	1.015	188	38	113	1.079	77	39.40	9732.0	9955.9
03-Nov-16 01:00:00	36	79	31	1.019	192	37	116	0.918	142	39.41	9732.9	9956.9
03-Nov-16 01:15:00	36	77	31	1.014	189	37	120	1.086	75	39.42	9733.8	9957.5
03-Nov-16 01:30:00	36	78	31	1.016	188	37	115	1.012	122	39.43	9734.8	9958.2
03-Nov-16 01:45:00	36	77	31	1.010	186	37	117	1.084	57	39.44	9735.8	9958.9
03-Nov-16 01:46:28	Well slugging.											
03-Nov-16 02:00:00	Gas SG 0.646.											
03-Nov-16 02:00:00	36	80	31	1.022	194	37	118	1.083	103	39.45	9736.6	9959.6
03-Nov-16 02:15:00	36	77	31	1.015	187	37	114	1.026	111	39.46	9737.4	9960.5
03-Nov-16 02:30:00	36	75	31	1.013	184	37	111	0.992	107	39.48	9738.4	9961.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
03-Nov-16 02:45:00	36	81	31	1.007	205	38	125	1.010	163	39.49	9739.7	9962.4
03-Nov-16 03:00:00	36	77	31	1.036	186	37	113	1.167	27	39.50	9740.6	9963.3
03-Nov-16 03:15:00	36	79	31	1.019	196	37	119	1.127	88	39.51	9741.5	9964.0
03-Nov-16 03:30:00	36	78	30	1.018	190	37	120	1.250	17	39.52	9742.3	9964.7
03-Nov-16 03:45:00	36	78	30	1.025	190	37	114	1.098	77	39.53	9743.4	9965.4
03-Nov-16 04:00:00	36	77	30	1.014	194	37	118	0.949	160	39.54	9744.4	9966.0
03-Nov-16 04:15:00	36	74	30	1.014	181	37	106	1.038	73	39.55	9745.2	9966.9
03-Nov-16 04:30:00	36	85	30	0.980	216	37	130	1.068	156	39.56	9746.4	9967.7
03-Nov-16 04:45:00	36	81	30	1.071	177	37	110	1.123	34	39.58	9747.2	9968.5
03-Nov-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas 0.646.											
03-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=50.0mS@21.1degC, Water Density=1013.9kg/m3@23DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-110.4mV2, Salinity=36000ppm.											
03-Nov-16 05:00:00	36	82	30	1.001	195	37	118	1.136	60	39.59	9748.1	9969.3
03-Nov-16 05:15:00	36	81	30	1.025	189	37	117	1.015	120	39.60	9749.0	9970.1
03-Nov-16 05:30:00	36	81	30	1.004								9970.9
03-Nov-16 05:45:00	36	84	30	1.027	194	36	117	1.113	81	39.62	9750.6	9971.7
03-Nov-16 06:00:00	36	78	30	0.998	204	36	123	1.107	98	39.63	9751.4	9972.5
03-Nov-16 06:15:00	36	82	30	1.041	182	36	111	1.044	71	39.64	9752.2	9973.3
03-Nov-16 06:30:00	36	82	29	1.012	190	36	117	1.041	109	39.65	9753.2	9974.1
03-Nov-16 06:45:00	36	82	30	1.021	186	37	121	1.158	57	39.67	9754.2	9974.9
03-Nov-16 07:00:00	36	82	30	1.013	188	37	117	1.023	123	39.68	9755.3	9975.7
03-Nov-16 07:15:00	36	82	30	1.016	186	38	117	0.984	140	39.69	9756.4	9976.5
03-Nov-16 07:30:00	36	81	31	1.008	191	38	118	1.015	122	39.70	9757.3	9977.3
03-Nov-16 07:45:00	36	82	31	1.017	188	38	123	1.048	104	39.71	9758.4	9978.1
03-Nov-16 08:00:00	Gas SG 0.642.											
03-Nov-16 08:00:00	36	81	32	1.017	187	39	115	1.057	82	39.72	9759.2	9978.9
03-Nov-16 08:01:43	Checked barton scrubbers for carry over.											
03-Nov-16 08:15:00	36	81	32	1.021	188	39	120	1.056	101	39.73	9760.4	9979.7
03-Nov-16 08:30:00	36	81	33	1.020	188	40	119	1.111	59	39.74	9761.3	9980.5
03-Nov-16 08:45:00	36	81	33	1.022	195	40	120	1.063	105	39.75	9762.2	9981.3
03-Nov-16 09:00:00	36	82	34	1.023	191	41	120	1.147	55	39.77	9763.0	9982.1
03-Nov-16 09:15:00	36	82	35	1.023	190	41	119	1.100	78	39.78	9763.9	9982.8
03-Nov-16 09:30:00	36	81	35	1.024	188	42	114	1.063	75	39.79	9764.6	9983.5
03-Nov-16 09:45:00	36	82	35	1.023	186	42	115	0.961	141	39.80	9765.5	9984.2
03-Nov-16 10:00:00	36	82	36	1.027	185	42	117	1.126	44	39.81	9766.4	9984.9
03-Nov-16 10:02:43	Flushed barton scrubbers.											
03-Nov-16 10:15:00	36	83	36	1.030	186	43	115	1.075	82	39.82	9767.4	9985.6
03-Nov-16 10:30:00	36	82	37	1.017	185	43	116	0.963	133	39.83	9768.4	9986.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
03-Nov-16 10:45:00	36	84	37	1.023	183	43	116	1.132	30	39.84	9769.5	9987.0
03-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
03-Nov-16 11:00:00	Water sample from VX: pH=6, Electrical Conductivity=62.35mS@29.8degC, Water Density=1012.8kg/m3@31DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-142.2mV2, Salinity=38000ppm.											
03-Nov-16 11:00:00	36	83	38	1.014	184	44	119	1.047	82	39.85	9770.7	9987.7
03-Nov-16 11:01:00	Checked barton scrubbers for carry over.											
03-Nov-16 11:15:00	Flushed VX liquid port, found trace of sand ~3cc.											
03-Nov-16 11:15:00	36	82	38	1.008	191	44	117	1.103	78	39.86	9771.8	9988.5
03-Nov-16 11:30:00	36	84	38	1.023	187	44	119	1.024	113	39.88	9772.7	9989.3
03-Nov-16 11:45:00	36	84	38	1.022	190	44	119	1.040	99	39.89	9773.9	9990.1
03-Nov-16 12:00:00	36	84	39	1.021	191	44	117	1.114	37	39.90	9775.0	9990.9
03-Nov-16 12:15:00	36	85	39	1.022	191	45	119	1.136	37	39.91	9775.9	9991.7
03-Nov-16 12:30:00	36	84	39	1.021	189	45	119	0.923	127	39.92	9776.8	9992.5
03-Nov-16 12:45:00	36	85	40	1.020	183	45	121	0.928	167	39.93	9778.0	9993.3
03-Nov-16 12:48:00	WHP dropping, well slugging.											
03-Nov-16 12:50:00	Lifted 1.75" Orifice Plate.											
03-Nov-16 12:50:00	End of MP.											
03-Nov-16 13:00:00	36	74	40		210	45	127	0.946	198	39.94	9779.3	9994.1
03-Nov-16 13:15:00	36	100	41		224	45	143	1.252	126	39.95	9781.1	9994.9
03-Nov-16 13:30:00	36	89	40		174	45	111	1.119	35	39.96	9781.9	9995.7
03-Nov-16 13:45:00	36	89	41		191	45	119	1.012	121	39.97	9783.2	9996.5
03-Nov-16 14:00:00	Gas SG=0.642											
03-Nov-16 14:00:00	36	86	41		184	45	124	1.071	98	39.98	9784.2	9997.3
03-Nov-16 14:15:00	36	85	41		193	45	120	1.120	77	39.99	9785.1	9997.9
03-Nov-16 14:30:00	36	86	41		188	45	116	1.145	48	40.01	9786.2	9998.5
03-Nov-16 14:45:00	36	86	41		189	45	116	1.053	86	40.02	9787.1	9999.1
03-Nov-16 15:00:00	Pumped 66.8 bbls from tank to pond.											
03-Nov-16 15:00:00	36	85	41		192	45	117	0.960	139	40.03	9788.2	9999.6
03-Nov-16 15:15:00	36	84	41		185	45	114	0.915	150	40.04	9789.5	10000.4
03-Nov-16 15:30:00	36	84	41		191	45	118	1.022	121	40.05	9790.7	10001.2
03-Nov-16 15:45:00	36	85	41		186	45	116	0.961	130	40.06	9791.7	10002.0
03-Nov-16 16:00:00	36	85	41		192	44	117	0.966	137	40.07	9793.1	10002.9
03-Nov-16 16:02:00	MP on 36/64" Fixed Choke.											
03-Nov-16 16:02:00	Lowered 1.75" Orifice Plate.											
03-Nov-16 16:15:00	36	85	40	1.013	188	44	122	1.086	88	40.08	9793.8	10003.5
03-Nov-16 16:30:00	36	85	41	1.016	186	44	116	1.036	91	40.09	9795.0	10004.2
03-Nov-16 16:45:00	36	85	40	1.018	191	44	117	1.004	130	40.10	9796.1	10004.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
03-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
03-Nov-16 17:00:00	36	83	40	1.010	186	43	115	1.065	86	40.11	9797.2	10005.6
03-Nov-16 17:01:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.391mS@30.3degC, Water Density=1013.1kg/m3@32.1DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-137.8mV2, Salinity=38000ppm.											
03-Nov-16 17:15:00	36	84	40	1.010	188	42	116	1.129	66	40.12	9798.2	10006.4
03-Nov-16 17:30:00	36	83	40	1.013	183	42	117	1.007	110	40.13	9799.2	10007.2
03-Nov-16 17:45:00	36	84	39	1.013	187	41	115	1.144	49	40.14	9800.1	10008.0
03-Nov-16 18:00:00	36	83	39	1.014	186	41	116	0.919	173	40.15	9801.2	10008.8
03-Nov-16 18:15:00	36	83	38	1.010	190	41	116	0.987	136	40.16	9802.4	10009.6
03-Nov-16 18:30:00	36	83	38	1.015	184	40	117	1.002	133	40.18	9803.3	10010.4
03-Nov-16 18:45:00	36	83	37	1.011	185	40	115	1.266	9	40.19	9804.2	10011.2
03-Nov-16 19:00:00	36	82	36	0.996	191	39	120	1.029	125	40.20	9805.2	10012.1
03-Nov-16 19:15:00	36	86	36	1.022	198	39	123	1.041	139	40.21	9806.2	10012.9
03-Nov-16 19:30:00	36	83	35	1.023	193	39	119	1.091	75	40.22	9807.1	10013.7
03-Nov-16 19:45:00	36	84	35	1.022	188	39	116	0.988	125	40.23	9808.0	10014.5
03-Nov-16 20:00:00	Gas SG=0.642											
03-Nov-16 20:00:00	36	83	34	1.016	193	38	120	1.108	92	40.24	9808.9	10015.3
03-Nov-16 20:15:00	36	81	34	1.019	191	38	117	1.061	106	40.26	9809.7	10016.1
03-Nov-16 20:30:00	36	81	33	1.014	194	38	120	1.217	39	40.27	9810.6	10016.9
03-Nov-16 20:45:00	36	81	33	1.015	189	38	120	1.169	53	40.28	9811.5	10017.7
03-Nov-16 21:00:00	36	83	33	1.010	192	38	119	1.272	1	40.29	9812.4	10018.5
03-Nov-16 21:15:00	36	83	33	1.016	195	38	120	1.027	134	40.30	9813.3	10019.2
03-Nov-16 21:30:00	36	83	32	1.015	195	38	120	1.092	83	40.31	9814.1	10019.9
03-Nov-16 21:45:00	36	82	32	1.009	190	38	116	1.165	44	40.32	9815.1	10020.6
03-Nov-16 22:00:00	36	83	32	1.012	189	38	117	1.173	43	40.34	9816.0	10021.3
03-Nov-16 22:15:00	36	83	32	1.014	190	38	120	1.105	89	40.35	9816.8	10022.1
03-Nov-16 22:30:00	36	83	32	1.019	186	38	115	1.042	99	40.36	9817.6	10022.9
03-Nov-16 22:45:00	36	83	32	1.008	191	37	118	1.212	25	40.37	9818.6	10023.7
03-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
03-Nov-16 23:00:00	Water sample from VX: pH=7, Electrical Conductivity=54.46mS@22.8degC, Water Density=1015kg/m3@24.7DegC, Dissolved Oxygen=0.1%, Oxidation Reduction Potential=-109.4mV2, Salinity=38000ppm.											
03-Nov-16 23:00:00	36	83	32	1.016	190	38	115	1.040	119	40.38	9819.7	10024.5
03-Nov-16 23:15:00	36	82	31	1.016	189	38	116	1.193	38	40.39	9820.8	10025.2
03-Nov-16 23:30:00	36	82	31	1.008	195	38	119	1.135	77	40.40	9821.7	10025.8
03-Nov-16 23:45:00	36	81	31	1.010	190	38	114	1.315	0	40.41	9822.7	10026.5
04-Nov-16 00:00:00	36	83	31	1.008	190	37	116	1.125	65	40.43	9823.4	10027.2
04-Nov-16 00:15:00	36	83	31	1.011	190	37	114	1.115	48	40.44	9824.2	10027.9
04-Nov-16 00:30:00	36	84	31	1.016	191	37	115	1.078	91	40.45	9825.1	10028.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
04-Nov-16 00:45:00	36	82	31	1.021	188	37	116	1.295	0	40.46	9825.9	10029.3
04-Nov-16 01:00:00	36	83	31	1.010	188	37	123	1.125	58	40.47	9826.6	10030.0
04-Nov-16 01:15:00	36	83	31	1.012	188	37	115	1.102	74	40.48	9827.3	10030.8
04-Nov-16 01:30:00	36	82	31	1.008	194	37	117	1.225	29	40.49	9828.2	10031.6
04-Nov-16 01:45:00	36	83	31	1.010	194	37	116	1.125	66	40.51	9829.3	10032.4
04-Nov-16 02:00:00	Gas SG=0.644											
04-Nov-16 02:00:00	36	82	31	1.017	185	37	119	0.978	130	40.52	9830.2	10033.2
04-Nov-16 02:15:00	36	83	31	1.007	203	37	122	1.022	157	40.53	9831.3	10034.0
04-Nov-16 02:30:00	36	83	31	1.025	187	37	112	1.002	122	40.54	9832.2	10034.8
04-Nov-16 02:45:00	36	83	30	1.015	196	37	119	1.220	57	40.55	9833.4	10035.6
04-Nov-16 03:00:00	36	82	30	1.017	194	37	116	1.006	119	40.56	9834.7	10036.4
04-Nov-16 03:15:00	36	83	30	1.016	197	37	118	1.011	120	40.57	9835.5	10037.2
04-Nov-16 03:30:00	36	83	30	1.019	190	37	116	1.077	76	40.58	9836.4	10038.0
04-Nov-16 03:45:00	36	83	30	1.008	194	37	117	1.218	40	40.59	9837.4	10038.8
04-Nov-16 04:00:00	36	84	30	1.016	190	37	115	1.098	97	40.61	9838.3	10039.7
04-Nov-16 04:15:00	36	82	30	1.019	194	37	115	1.112	69	40.62	9839.2	10040.3
04-Nov-16 04:30:00	36	83	30	1.011	195	37	116	1.043	99	40.63	9840.0	10041.0
04-Nov-16 04:45:00	36	84	30	1.018	188	37	113	1.084	78	40.64	9841.0	10041.7
04-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
04-Nov-16 05:00:00	Water sample from VX: pH=7, Electrical Conductivity=53.81mS@22.6degC, Water Density=1015.2kg/m3@24.6DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-115.8mV2, Salinity=38000ppm.											
04-Nov-16 05:00:00	36	83	30	1.011	189	37	113	0.997	123	40.65	9841.9	10042.4
04-Nov-16 05:15:00	36	83	30	1.022	191	37	118	1.136	67	40.66	9842.9	10043.2
04-Nov-16 05:30:00	36	82	30	1.010								10044.0
04-Nov-16 05:45:00	36	84	30	1.014	188	37	112	1.136	48	40.68	9844.3	10044.8
04-Nov-16 06:00:00	36	84	30	1.020	184	37	113	1.154	37	40.70	9845.1	10045.6
04-Nov-16 06:15:00	36	85	30	1.019	193	37	116	1.217	18	40.71	9846.0	10046.4
04-Nov-16 06:30:00	36	83	30	1.014	193	37	116	1.001	134	40.72	9846.7	10047.2
04-Nov-16 06:45:00	36	83	30	1.016	190	38	116	1.143	58	40.73	9847.5	10048.0
04-Nov-16 07:00:00	36	83	31	1.012	187	38	122	1.031	118	40.74	9848.4	10048.9
04-Nov-16 07:15:00	36	84	32	1.019	187	39	119	1.012	119	40.75	9849.4	10049.5
04-Nov-16 07:30:00	36	84	32	1.011	188	40	118	1.002	125	40.76	9850.2	10050.2
04-Nov-16 07:45:00	36	83	33	1.017	194	40	118	1.116	69	40.77	9851.1	10050.9
04-Nov-16 08:00:00	Gas SG=0.640											
04-Nov-16 08:00:00	36	84	33	1.016	191	40	120	1.202	41	40.79	9851.9	10051.6
04-Nov-16 08:15:00	36	83	34	1.020	187	41	115	1.089	80	40.80	9852.7	10052.4
04-Nov-16 08:30:00	36	83	35	1.016	191	42	121	1.087	80	40.81	9853.6	10053.2
04-Nov-16 08:45:00	36	84	35	1.023	185	42	114	1.071	74	40.82	9854.5	10054.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
04-Nov-16 09:00:00	36	84	36	1.017	189	42	115	1.079	83	40.83	9855.5	10054.8
04-Nov-16 09:15:00	36	84	36	1.016	195	43	119	0.946	155	40.84	9856.4	9119.9
04-Nov-16 09:30:00	36	85	37	1.016	191	43	118	1.046	111	40.85	9857.4	8184.9
04-Nov-16 09:45:00	36	86	37	1.021	186	43	118	0.958	136	40.86	9858.5	7250.0
04-Nov-16 10:00:00	Pumped 57.5 bbls from tank to pond.											
04-Nov-16 10:00:00	36	85	38	1.013	190	43	119	1.074	97	40.87	9859.7	6315.0
04-Nov-16 10:15:00	36	85	38	1.025	188	44	117	1.085	73	40.88	9860.6	7251.4
04-Nov-16 10:30:00	36	86	38	1.018	183	44	120	1.016	117	40.89	9861.6	8187.7
04-Nov-16 10:45:00	36	86	38	1.024	186	44	116	0.987	117	40.91	9862.6	9124.0
04-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
04-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.93mS@30.2degC, Water Density=1013kg/m3@31.5DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-134mV2, Salinity=38000ppm.											
04-Nov-16 11:00:00	36	87	39	1.010	188	44	117	1.048	100	40.92	9863.6	10060.4
04-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand ~1cc and scales.											
04-Nov-16 11:15:00	36	87	39	1.015	185	44	117	1.116	55	40.93	9864.6	10061.0
04-Nov-16 11:30:00	36	86	39	1.015	185	44	117	1.065	74	40.94	9865.7	10061.7
04-Nov-16 11:45:00	36	86	39	1.014	183	45	118	1.158	32	40.95	9866.7	10062.4
04-Nov-16 12:00:00	36	87	39	1.012	191	45	119	1.038	86	40.96	9867.9	10063.1
04-Nov-16 12:15:00	36	87	40	1.023	186	45	117	1.021	102	40.97	9868.8	10063.8
04-Nov-16 12:30:00	36	87	40	1.015	183	45	115	0.989	98	40.98	9869.8	10064.5
04-Nov-16 12:45:00	36	87	40	1.015	186	45	115	1.010	109	40.99	9871.0	10065.2
04-Nov-16 13:00:00	36	88	40	1.008	183	45	120	1.089	76	41.00	9871.8	10065.9
04-Nov-16 13:15:00	36	88	41	1.012	184	45	116	0.886	175	41.01	9873.0	10066.7
04-Nov-16 13:30:00	36	88	41	1.011	183	45	120	1.077	69	41.02	9873.9	10067.5
04-Nov-16 13:45:00	36	90	41	1.027	183	45	113	0.971	119	41.03	9874.9	10068.3
04-Nov-16 14:00:00	Gas SG=0.640											
04-Nov-16 14:00:00	36	89	41	1.011	186	45	119	1.063	95	41.04	9876.1	10069.1
04-Nov-16 14:15:00	36	90	41	1.018	192	45	116	0.950	149	41.05	9877.2	10069.8
04-Nov-16 14:30:00	36	90	41	1.015	188	45	116	1.011	117	41.06	9878.3	10070.5
04-Nov-16 14:45:00	36	90	41	1.017	187	45	115	1.018	101	41.07	9879.6	10071.2
04-Nov-16 15:00:00	36	88	41	1.013	187	45	113	1.076	70	41.09	9880.7	10071.9
04-Nov-16 15:15:00	36	85	41	0.996	178	45	113	0.896	144	41.10	9882.0	10072.7
04-Nov-16 15:30:00	36	92	42	1.014	203	45	124	1.068	104	41.11	9883.0	10073.5
04-Nov-16 15:45:00	36	86	41	1.039	182	44	113	1.039	81	41.12	9884.0	10074.3
04-Nov-16 16:00:00	36	89	41	1.004	193	45	122	1.032	104	41.13	9885.0	10075.1
04-Nov-16 16:15:00	36	91	41	1.020	193	45	119	1.283	11	41.14	9885.8	10075.6
04-Nov-16 16:30:00	36	89	41	1.022	188	44	116	0.970	135	41.15	9886.9	10076.2
04-Nov-16 16:45:00	36	89	41	1.024	184	44	115	1.019	90	41.16	9887.9	10076.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
04-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
04-Nov-16 17:00:00	Water sample from VX: pH=6.2, Electrical Conductivity=63.63mS@31.1degC, Water Density=1012.7kg/m3@33.3DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-125.6mV2, Salinity=38000ppm.											
04-Nov-16 17:00:00	36	87	41	1.013	192	44	116	1.102	77	41.17	9888.7	10077.4
04-Nov-16 17:15:00	36	87	41	1.020								10078.3
04-Nov-16 17:30:00	36	87	40	1.015	186	42	114	0.984	107	41.19	9890.5	10079.2
04-Nov-16 17:45:00	36	87	40	1.013	191	42	114	1.101	60	41.20	9891.4	10080.1
04-Nov-16 18:00:00	36	87	39	1.013	189	41	115	0.950	150	41.21	9892.6	10081.0
04-Nov-16 18:15:00	36	88	39	1.015	190	41	119	0.995	128	41.22	9893.6	10082.0
04-Nov-16 18:30:00	36	87	38	1.017	191	40	118	1.070	107	41.24	9894.7	10082.9
04-Nov-16 18:45:00	36	87	37	1.010	187	40	113	1.030	90	41.25	9895.4	10083.8
04-Nov-16 19:00:00	36	86	37	1.011	192	39	116	1.066	98	41.26	9896.4	10084.7
04-Nov-16 19:15:00	36	86	36	1.012	188	39	117	0.960	142	41.27	9897.5	10085.5
04-Nov-16 19:30:00	36	86	35	1.018	188	39	121	1.007	127	41.28	9898.6	10086.3
04-Nov-16 19:45:00	36	85	35	1.011	192	39	121	1.065	108	41.29	9899.4	10087.1
04-Nov-16 20:00:00	Gas SG=0.644											
04-Nov-16 20:00:00	36	86	34	1.016	191	38	118	1.104	81	41.30	9900.5	10088.0
04-Nov-16 20:15:00	36	86	34	1.012	190	38	125	1.107	84	41.31	9901.3	10088.6
04-Nov-16 20:30:00	36	86	34	1.012	190	38	116	1.051	86	41.32	9902.3	10089.3
04-Nov-16 20:45:00	36	85	33	1.010	190	38	116	1.219	17	41.34	9903.1	10090.0
04-Nov-16 21:00:00	36	86	33	1.014	189	38	120	0.978	143	41.35	9903.9	10090.7
04-Nov-16 21:15:00	36	85	33	1.010	193	38	117	1.024	124	41.36	9904.9	10091.4
04-Nov-16 21:30:00	36	86	33	1.012	190	38	115	1.050	99	41.37	9905.8	10092.1
04-Nov-16 21:45:00	36	86	32	1.013	188	38	115	1.024	108	41.38	9906.7	10092.8
04-Nov-16 22:00:00	36	84	32	1.003	190	37	115	1.114	66	41.39	9907.5	10093.5
04-Nov-16 22:15:00	36	85	32	1.022	182	37	113	1.039	75	41.40	9908.6	10094.2
04-Nov-16 22:30:00	36	85	32	1.010	188	37	122	1.106	88	41.42	9909.5	10094.9
04-Nov-16 22:45:00	36	86	32	1.021	187	38	114	0.936	122	41.43	9910.3	10095.5
04-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
04-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=54.38mS@22.4degC,Water Density=1015.1kg/m3@24.5DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-106.5mV2, Salinity=38000ppm.											
04-Nov-16 23:00:00	36	84	32	1.012	187	37	121	1.147	57	41.44	9911.1	10096.2
04-Nov-16 23:15:00	36	84	32	1.013	187	38	119	1.177	33	41.45	9912.0	10096.9
04-Nov-16 23:30:00	36	84	32	1.012	192	38	116	1.045	110	41.46	9912.8	10097.6
04-Nov-16 23:45:00	36	85	32	1.019	189	38	117	1.026	124	41.47	9913.7	10098.3
05-Nov-16 00:00:00	36	86	32	1.018	192	38	120	1.031	109	41.48	9914.5	10099.0
05-Nov-16 00:15:00	36	80	31	1.006	184	38	113	1.140	36	41.50	9915.5	10099.7
05-Nov-16 00:30:00	36	87	31	0.996	205	37	125	1.252	48	41.51	9916.5	10100.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
05-Nov-16 00:45:00	36	83	31	1.043	178	37	118	0.975	118	41.52	9917.3	10101.1
05-Nov-16 01:00:00	36	86	31	1.007	194	37	116	1.155	51	41.53	9918.2	10101.8
05-Nov-16 01:15:00	36	85	31	1.021	189	37	115	1.048	96	41.54	9919.0	10102.6
05-Nov-16 01:30:00	36	83	31	1.017	185	37	114	1.105	59	41.55	9919.8	10103.4
05-Nov-16 01:45:00	36	85	31	1.010	203	37	122	1.276	28	41.56	9920.6	10104.2
05-Nov-16 02:00:00	Gas SG=0.642											
05-Nov-16 02:00:00	36	84	30	1.030	189	37	114	1.046	87	41.58	9921.3	10105.0
05-Nov-16 02:15:00	36	85	30	1.014	193	37	117	0.977	147	41.59	9922.2	10105.8
05-Nov-16 02:30:00	36	83	30	1.017	192	37	119	1.117	72	41.60	9923.2	10106.6
05-Nov-16 02:45:00	36	84	30	1.012	188	37	115	1.150	50	41.61	9924.2	10107.4
05-Nov-16 03:00:00	36	85	30	1.012	192	37	116	1.127	62	41.62	9925.0	10108.2
05-Nov-16 03:15:00	36	85	30	1.014	193	37	117	1.142	60	41.63	9925.7	10108.9
05-Nov-16 03:30:00	36	86	30	1.015	190	37	116	1.067	97	41.64	9926.7	10109.6
05-Nov-16 03:45:00	36	86	30	1.016	189	37	116	1.054	109	41.65	9927.8	10110.3
05-Nov-16 04:00:00	36	85	30	1.016	195	37	117	1.075	111	41.66	9928.7	10111.0
05-Nov-16 04:15:00	36	85	30	1.014	188	37	113	1.041	91	41.68	9929.6	10111.6
05-Nov-16 04:30:00	36	85	30	1.015	191	37	115	1.246	14	41.69	9930.3	10112.3
05-Nov-16 04:45:00	36	85	30	1.015	188	37	116	0.926	175	41.70	9931.6	10113.0
05-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
05-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.77mS@22.7degC,Water Density=1014.8kg/m3@24.9DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-104.9mV2, Salinity=38000ppm.											
05-Nov-16 05:00:00	36	85	30	1.009	190	37	118	1.012	124	41.71	9932.6	10113.7
05-Nov-16 05:15:00	36	87	30	1.018	191	37	116	1.071	93	41.72	9933.6	10114.4
05-Nov-16 05:30:00	36	85	30	1.012								10115.1
05-Nov-16 05:45:00	36	86	30	1.028	182	37	112	1.117	35	41.74	9935.2	10115.8
05-Nov-16 06:00:00	36	85	30	1.013	191	37	115	1.148	48	41.75	9936.0	10116.5
05-Nov-16 06:15:00	36	86	30	1.023	183	37	112	1.050	71	41.76	9937.0	10117.3
05-Nov-16 06:30:00	36	86	30	1.014	188	37	114	1.060	87	41.78	9938.0	10118.1
05-Nov-16 06:45:00	36	85	30	1.018	186	38	114	1.039	95	41.79	9939.0	10118.9
05-Nov-16 07:00:00	Pumped 61.2 bbls from tank to pond.											
05-Nov-16 07:00:00	36	86	31	1.017	185	38	117	0.992	124	41.80	9939.8	10119.7
05-Nov-16 07:15:00	36	86	31	1.014	186	39	116	1.002	115	41.81	9940.7	10120.4
05-Nov-16 07:30:00	36	86	32	1.021	183	39	113	0.934	143	41.82	9941.8	10121.1
05-Nov-16 07:45:00	36	85	32	1.015	187	39	117	1.014	90	41.83	9942.6	10121.8
05-Nov-16 08:00:00	Gas SG=0.640											
05-Nov-16 08:00:00	36	85	33	1.014	187	40	117	1.083	80	41.84	9943.5	10122.5
05-Nov-16 08:15:00	36	86	33	1.021	189	40	116	1.209	27	41.85	9944.3	10123.2
05-Nov-16 08:30:00	36	85	34	1.021	188	41	115	1.011	91	41.86	9945.2	10123.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
05-Nov-16 08:45:00	36	86	35	1.018	185	41	117	0.973	135	41.87	9946.4	10124.6
05-Nov-16 09:00:00	36	85	35	1.020	192	42	117	0.999	127	41.89	9947.3	10125.3
05-Nov-16 09:15:00	36	87	36	1.016	188	42	119	0.968	134	41.90	9948.6	10126.2
05-Nov-16 09:30:00	36	87	37	1.018	191	43	118	1.102	71	41.91	9949.8	10127.1
05-Nov-16 09:45:00	36	86	37	1.023	186	43	116	1.131	48	41.92	9950.9	10128.1
05-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=10129bbls, EC=66.15mS@33.4degC, pH=6.1.											
05-Nov-16 10:00:00	36	87	37	1.016	185	43	117	1.037	73	41.93	9951.8	10129.0
05-Nov-16 10:15:00	36	87	38	1.016	185	43	116	0.890	155	41.94	9952.9	10129.4
05-Nov-16 10:30:00	36	87	38	1.019	185	44	114	1.060	76	41.95	9953.9	10129.9
05-Nov-16 10:45:00	36	87	38	1.012	183	44	114	0.979	120	41.96	9955.2	10130.4
05-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=65.02mS@30.7degC,Water Density=1013.2kg/m3@32DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-145mV2, Salinity=39000ppm.											
05-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
05-Nov-16 11:00:00	36	87	38	1.015	194	44	122	1.015	122	41.97	9956.1	10130.8
05-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
05-Nov-16 11:15:00	36	88	39	1.027	187	44	117	1.015	111	41.98	9956.8	10131.7
05-Nov-16 11:30:00	36	88	39	1.017	184	44	114	1.128	46	41.99	9957.8	10132.7
05-Nov-16 11:45:00	36	89	39	1.017	185	45	115	0.922	155	42.00	9958.9	10133.6
05-Nov-16 12:00:00	36	88	40	1.016	183	45	117	1.042	88	42.01	9960.1	10134.5
05-Nov-16 12:15:00	36	92	40	1.025	190	45	119	1.100	78	42.02	9961.3	10135.3
05-Nov-16 12:30:00	36	89	40	1.018	184	45	115	1.065	75	42.04	9962.2	10136.1
05-Nov-16 12:45:00	36	91	40	1.017	187	45	115	0.930	148	42.05	9963.3	10136.9
05-Nov-16 13:00:00	36	89	41	1.019	185	46	115	1.046	67	42.06	9964.2	10137.7
05-Nov-16 13:15:00	36	91	41	1.018	188	45	119	1.021	123	42.07	9965.3	10138.5
05-Nov-16 13:30:00	36	90	41	1.020	189	45	120	1.077	69	42.08	9966.2	10139.3
05-Nov-16 13:45:00	36	90	41	1.012	188	45	116	1.084	66	42.09	9967.3	10140.1
05-Nov-16 14:00:00	Gas SG=0.640											
05-Nov-16 14:00:00	36	93	42	1.008	191	45	117	1.002	127	42.10	9968.4	10140.9
05-Nov-16 14:15:00	36	94	42	1.006	191	45	119	1.015	115	42.11	9969.6	10141.5
05-Nov-16 14:30:00	36	91	42	1.018	191	45	116	1.106	82	42.12	9970.6	10142.1
05-Nov-16 14:45:00	36	90	42	1.016	188	45	117	1.073	71	42.13	9971.8	10142.7
05-Nov-16 15:00:00	36	93	42	1.024	188	45	117	1.062	86	42.14	9973.0	10143.2
05-Nov-16 15:15:00	36	90	42	1.011	184	45	113	1.120	43	42.15	9974.0	10143.8
05-Nov-16 15:30:00	36	93	42	1.025	189	45	116	0.978	125	42.16	9975.1	10144.4
05-Nov-16 15:45:00	36	90	41	1.017	191	45	116	1.031	93	42.18	9975.8	10145.0
05-Nov-16 16:00:00	36	92	41	1.021	188	45	115	0.998	118	42.19	9977.0	10145.5
05-Nov-16 16:15:00	36	89	41	1.018	190	44	115	1.028	87	42.20	9977.8	10146.3
05-Nov-16 16:30:00	36	90	41	1.019	187	44	115	0.982	122	42.21	9979.1	10147.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
05-Nov-16 16:45:00	36	90	41	1.015	192	44	120	1.079	97	42.22	9980.1	10147.9
05-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
05-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=66.96mS@33.3degC,Water Density=1012kg/m3@34.7DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-182mV2, Salinity=38000ppm.											
05-Nov-16 17:00:00	36	89	41	1.016	189	43	116	1.059	86	42.23	9981.2	10148.8
05-Nov-16 17:15:00	36	89	41	1.015	187	43	113	0.952	136	42.24	9982.1	10149.4
05-Nov-16 17:30:00	36	88	40	1.006	182	42	118	0.898	171	42.25	9983.1	10150.1
05-Nov-16 17:45:00	36	91	40	1.014	195	41	119	1.179	51	42.26	9984.2	10150.8
05-Nov-16 18:00:00	36	87	39	1.015	186	41	116	0.984	140	42.27	9985.1	10151.5
05-Nov-16 18:15:00	36	90	39	1.016	187	41	115	1.145	50	42.28	9986.2	10152.2
05-Nov-16 18:30:00	36	87	38	1.014	188	40	115	1.104	66	42.29	9987.2	10152.9
05-Nov-16 18:45:00	36	87	37	1.007	192	40	116	0.984	125	42.30	9988.4	10153.6
05-Nov-16 19:00:00	36	88	37	1.012	187	39	114	1.120	66	42.31	9989.4	10154.3
05-Nov-16 19:15:00	36	88	36	1.012	185	39	115	0.973	116	42.32	9990.4	10155.0
05-Nov-16 19:30:00	36	88	35	1.015	191	39	119	1.144	68	42.34	9991.5	10155.7
05-Nov-16 19:45:00	36	87	35	1.011	188	38	117	1.104	64	42.35	9992.4	10156.3
05-Nov-16 20:00:00	Gas SG=0.642											
05-Nov-16 20:00:00	36	86	34	1.010	192	38	116	1.153	54	42.36	9993.4	10157.0
05-Nov-16 20:15:00	36	87	34	1.011	190	38	118	1.147	67	42.37	9994.4	10157.7
05-Nov-16 20:30:00	36	86	34	1.014	187	38	116	1.098	77	42.38	9995.2	10158.4
05-Nov-16 20:45:00	36	84	33	1.006	192	38	117	1.130	70	42.39	9996.2	10159.1
05-Nov-16 21:00:00	36	86	33	1.011	191	38	123	1.005	151	42.40	9997.1	10159.8
05-Nov-16 21:15:00	36	87	33	1.016	188	38	114	1.145	48	42.41	9997.9	10160.6
05-Nov-16 21:30:00	36	87	33	1.013	188	38	114	1.132	45	42.43	9998.6	10161.4
05-Nov-16 21:45:00	36	86	33	1.015	188	38	117	1.101	82	42.44	9999.6	10162.2
05-Nov-16 22:00:00	36	87	33	1.008	194	38	119	1.166	57	42.45	10000.6	10163.0
05-Nov-16 22:15:00	36	85	32	1.018	188	38	115	1.084	81	42.46	10001.6	10163.8
05-Nov-16 22:30:00	36	86	32	1.005	192	38	118	1.179	44	42.47	10002.5	10164.6
05-Nov-16 22:45:00	36	85	32	1.014	191	38	116	1.087	96	42.48	10003.6	10165.4
05-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
05-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=56.03mS@24.2degC,Water Density=1014.5kg/m3@25.7DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-180.8mV2, Salinity=38000ppm.											
05-Nov-16 23:00:00	36	86	32	1.012	187	38	115	1.056	71	42.49	10004.4	10166.2
05-Nov-16 23:15:00	36	85	32	1.012	190	38	116	0.900	191	42.50	10005.6	10166.9
05-Nov-16 23:30:00	36	86	32	1.008	188	38	115	0.964	139	42.51	10006.7	10167.6
05-Nov-16 23:45:00	36	85	32	1.014	195	38	117	0.988	146	42.53	10007.8	10168.3
06-Nov-16 00:00:00	36	86	32	1.016								10169.0
06-Nov-16 00:15:00	36	85	32	1.011	186	37	115	1.076	83	42.55	10009.6	10169.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
06-Nov-16 00:30:00	36	87	32	1.007	196	37	119	1.065	110	42.56	10010.7	10170.4
06-Nov-16 00:45:00	36	85	31	1.013	188	37	116	1.044	90	42.57	10011.6	10171.1
06-Nov-16 00:54:00	WHP dropping, well slugging.											
06-Nov-16 01:00:00	36	71	31	0.924	161	37	94	0.940	51	42.58	10012.6	10171.8
06-Nov-16 01:12:00	Lifted 1.75" Orifice Plate.											
06-Nov-16 01:12:00	End of MP.											
06-Nov-16 01:15:00	36	96	32		221	37	136	1.216	112	42.59	10013.7	10172.6
06-Nov-16 01:30:00	36	87	31		177	37	110	0.973	118	42.60	10014.7	10173.4
06-Nov-16 01:45:00	36	88	31		193	37	123	1.074	118	42.61	10015.7	10174.2
06-Nov-16 02:00:00	Gas SG=0.644											
06-Nov-16 02:00:00	36	85	31		180	37	113	1.050	71	42.62	10016.5	10175.0
06-Nov-16 02:15:00	36	84	31		190	37	117	1.079	74	42.63	10017.5	10175.7
06-Nov-16 02:16:00	MP on 36/64" Fixed Choke.											
06-Nov-16 02:16:00	Lowered 1.75" Orifice Plate.											
06-Nov-16 02:30:00	36	86	30		185	36	115	1.055	103	42.65	10018.5	10176.4
06-Nov-16 02:45:00	36	85	30	1.017	195	36	120	0.982	159	42.66	10019.7	10177.0
06-Nov-16 03:00:00	36	85	30	1.017	190	36	119	1.083	84	42.67	10020.6	10177.7
06-Nov-16 03:15:00	36	86	30	1.012	192	36	116	1.000	133	42.68	10021.4	10178.5
06-Nov-16 03:30:00	36	84	29	1.016	189	36	112	1.089	61	42.69	10022.4	10179.3
06-Nov-16 03:45:00	36	86	29	1.006	188	36	115	1.061	81	42.70	10023.1	10180.1
06-Nov-16 04:00:00	36	85	29	1.004	193	36	115	1.008	137	42.71	10024.3	10181.0
06-Nov-16 04:15:00	36	86	30	1.024	184	36	112	1.002	107	42.72	10025.0	10181.8
06-Nov-16 04:30:00	36	84	29	1.009	189	36	114	1.063	113	42.74	10026.0	10182.6
06-Nov-16 04:45:00	36	84	29	1.004	192	36	116	0.985	144	42.75	10026.9	10183.4
06-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
06-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=55.63mS@23.4degC,Water Density=1015kg/m3@25.2DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-184mV2, Salinity=38000ppm.											
06-Nov-16 05:00:00	36	86	29	1.025	183	36	115	1.084	76	42.76	10027.8	10184.2
06-Nov-16 05:01:00	Pumped 68 bbls from tank to pond.											
06-Nov-16 05:15:00	36	86	29	1.008	191	36	114	1.098	68	42.77	10028.7	10184.9
06-Nov-16 05:30:00	36	87	29	1.024								10185.6
06-Nov-16 05:45:00	36	85	29	1.019	187	36	118	1.081	108	42.79	10030.5	10186.2
06-Nov-16 06:00:00	36	86	29	1.016	192	36	115	1.083	97	42.80	10031.3	10186.9
06-Nov-16 06:15:00	36	86	29	1.019	187	36	112	1.048	103	42.81	10032.2	10187.6
06-Nov-16 06:30:00	36	86	29	1.017	194	37	117	1.177	47	42.82	10033.1	10188.3
06-Nov-16 06:45:00	36	86	29	1.016	187	37	117	1.066	100	42.83	10034.2	10189.0
06-Nov-16 07:00:00	36	86	30	1.015	185	38	116	1.074	78	42.85	10035.1	10189.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
06-Nov-16 07:15:00	36	86	30	1.013	180	38	115	0.985	93	42.86	10035.9	10190.5
06-Nov-16 07:30:00	36	85	31	1.015	184	39	112	1.024	76	42.87	10036.6	10191.3
06-Nov-16 07:45:00	36	86	32	1.018	189	40	113	0.865	190	42.88	10037.8	10192.1
06-Nov-16 08:00:00	Gas SG=0.642											
06-Nov-16 08:00:00	36	86	33	1.019	182	40	111	1.083	50	42.89	10038.8	10192.9
06-Nov-16 08:15:00	36	86	33	1.013	191	40	117	1.231	8	42.90	10039.7	10193.4
06-Nov-16 08:30:00	36	86	34	1.019	188	41	115	0.933	152	42.91	10040.6	10193.8
06-Nov-16 08:45:00	36	87	34	1.016	188	41	115	1.101	52	42.92	10041.5	10194.3
06-Nov-16 09:00:00	36	87	35	1.014	191	41	115	1.043	109	42.93	10042.6	10194.8
06-Nov-16 09:15:00	36	88	35	1.019	191	41	115	0.939	157	42.94	10043.8	10195.4
06-Nov-16 09:30:00	36	87	35	1.024	183	42	114	0.825	215	42.95	10044.7	10196.1
06-Nov-16 09:45:00	36	87	36	1.015	184	42	117	1.073	83	42.97	10045.5	10196.8
06-Nov-16 10:00:00	36	87	36	1.016	182	43	120	0.965	144	42.98	10046.5	10197.5
06-Nov-16 10:15:00	36	88	37	1.016	186	43	121	1.016	116	42.99	10047.7	10198.4
06-Nov-16 10:30:00	36	88	37	1.019	187	44	118	1.010	113	43.00	10048.7	10199.4
06-Nov-16 10:45:00	36	88	38	1.023	183	44	117	0.994	118	43.01	10049.8	10200.3
06-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
06-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=64.74mS@29.4degC,Water Density=1014.3kg/m3@30DegC, Dissolved Oxygen=1.1%, Oxidation Reduction Potential=-185mV2, Salinity=40000ppm.											
06-Nov-16 11:00:00	Flushed VX liquid port, found trace of sand and scales.											
06-Nov-16 11:00:00	36	67	38	0.881	178	44	105	0.900	82	43.02	10050.8	10201.2
06-Nov-16 11:15:00	36	100	39	0.992	225	44	141	1.263	116	43.03	10052.2	10201.9
06-Nov-16 11:30:00	36	95	39	1.172	180	45	117	1.006	105	43.04	10053.4	10202.6
06-Nov-16 11:45:00	36	90	39	1.041	191	45	126	1.204	45	43.05	10054.3	10203.3
06-Nov-16 12:00:00	36	90	40	1.055	185	45	116	1.093	74	43.06	10055.3	10204.0
06-Nov-16 12:15:00	36	90	40	1.030	187	45	119	1.005	127	43.07	10056.2	10204.6
06-Nov-16 12:30:00	36	91	40	1.036	185	45	116	1.145	35	43.08	10057.2	10205.3
06-Nov-16 12:45:00	36	90	40	1.026	186	46	115	1.136	39	43.10	10058.0	10206.0
06-Nov-16 13:00:00	36	89	41	1.027	182	45	114	0.854	181	43.11	10059.0	10206.7
06-Nov-16 13:15:00	36	90	41	1.013	191	45	119	1.055	100	43.12	10060.1	10207.4
06-Nov-16 13:30:00	36	91	41	1.025	183	45	114	1.047	79	43.13	10061.2	10208.1
06-Nov-16 13:45:00	36	91	41	1.015	185	45	115	0.922	139	43.14	10062.3	10208.8
06-Nov-16 14:00:00	Took Isotube sample #37 from separator gas line at 91.9psia 41.4deg C.											
06-Nov-16 14:00:00	Gas SG=0.640											
06-Nov-16 14:00:00	36	92	41	1.012	187	45	116	1.099	68	43.15	10063.2	10209.5
06-Nov-16 14:15:00	36	92	41	1.017	189	45	117	1.089	70	43.16	10064.3	10209.9
06-Nov-16 14:30:00	36	92	41	1.014	191	45	118	0.952	146	43.17	10065.4	10210.4
06-Nov-16 14:45:00	36	92	42	1.012	187	45	116	0.913	157	43.18	10066.4	10210.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
06-Nov-16 15:00:00	36	92	42	1.017	187	45	115	1.110	59	43.19	10067.4	10211.3
06-Nov-16 15:15:00	36	92	42	1.019	184	45	113	1.137	40	43.20	10068.3	10212.1
06-Nov-16 15:30:00	36	92	41	1.012	188	45	119	1.024	122	43.21	10069.4	10212.9
06-Nov-16 15:45:00	36	91	41	1.011	190	45	116	1.057	67	43.22	10070.5	10213.7
06-Nov-16 16:00:00	36	92	41	1.015	189	44	117	0.982	129	43.23	10071.5	10214.5
06-Nov-16 16:15:00	36	91	41	1.015	184	44	114	0.967	123	43.24	10072.5	10215.2
06-Nov-16 16:30:00	36	92	41	1.017	184	44	114	0.943	125	43.26	10073.5	10215.9
06-Nov-16 16:45:00	36	90	41	1.007	189	44	117	1.126	60	43.27	10074.4	10216.6
06-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
06-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=64.45mS@30.4degC,Water Density=1013.3kg/m3@32.3DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-192mV2, Salinity=39000ppm.											
06-Nov-16 17:00:00	36	92	41	1.010	187	43	116	1.197	20	43.28	10075.3	10217.3
06-Nov-16 17:15:00	36	90	40	1.013	191	42	116	1.026	109	43.29	10076.1	10218.0
06-Nov-16 17:30:00	36	90	40	1.019	192	42	116	1.069	90	43.30	10077.1	10218.7
06-Nov-16 17:45:00	36	91	40	1.018	190	41	118	1.167	41	43.31	10077.9	10219.4
06-Nov-16 18:00:00	36	91	39	1.014	186	41	114	1.006	109	43.32	10078.9	10220.0
06-Nov-16 18:15:00	36	89	39	1.008	186	40	113	0.961	132	43.33	10079.8	10220.7
06-Nov-16 18:30:00	36	90	38	1.008	187	40	118	1.153	53	43.34	10080.8	10221.4
06-Nov-16 18:45:00	36	89	37	1.009	192	39	116	1.116	51	43.35	10081.7	10222.1
06-Nov-16 19:00:00	36	90	36	1.015	190	39	118	1.172	43	43.36	10082.7	10222.8
06-Nov-16 19:15:00	36	89	35	1.009	191	38	118	1.169	55	43.38	10083.6	10223.5
06-Nov-16 19:30:00	36	88	34	1.014	190	38	120	1.136	59	43.39	10084.4	10224.2
06-Nov-16 19:45:00	36	89	34	1.014	188	38	116	1.081	86	43.40	10085.4	10224.9
06-Nov-16 20:00:00	Gas SG=0.642											
06-Nov-16 20:00:00	36	88	33	1.010	193	37	117	1.081	95	43.41	10086.3	10225.6
06-Nov-16 20:15:00	36	89	33	1.015	187	37	114	1.164	23	43.42	10087.1	10226.3
06-Nov-16 20:30:00	36	88	32	1.016	189	37	115	0.999	90	43.43	10088.0	10227.0
06-Nov-16 20:45:00	36	88	32	1.011	188	37	116	1.008	131	43.44	10089.0	10227.6
06-Nov-16 21:00:00	36	87	32	1.014	185	37	113	1.053	63	43.45	10089.7	10228.3
06-Nov-16 21:15:00	36	88	31	1.010	191	37	120	1.120	78	43.47	10090.8	10229.1
06-Nov-16 21:30:00	36	89	31	1.016	188	36	118	1.080	90	43.48	10091.6	10229.9
06-Nov-16 21:45:00	36	88	31	1.013	191	36	115	1.073	94	43.49	10092.3	10230.7
06-Nov-16 22:00:00	36	88	30	1.013	188	36	115	1.048	95	43.50	10093.0	10231.5
06-Nov-16 22:15:00	36	87	30	1.013	194	36	116	1.051	109	43.51	10093.8	10232.2
06-Nov-16 22:30:00	36	88	30	1.012	192	36	117	1.061	94	43.52	10094.7	10232.9
06-Nov-16 22:45:00	36	86	30	1.005	187	36	119	1.131	59	43.53	10095.4	10233.6
06-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
06-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=55.98mS@23.3degC,Water Density=1014.7kg/m3@25.3DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-237.6mV2, Salinity=39000ppm.											
06-Nov-16 23:00:00	36	89	30	1.005	200	36	121	1.120	95	43.55	10096.5	10234.3
06-Nov-16 23:15:00	36	87	30	1.021	200	36	120	1.094	97	43.56	10097.4	10235.0
06-Nov-16 23:30:00	36	89	30	1.023	189	36	114	1.158	28	43.57	10098.2	10235.7
06-Nov-16 23:45:00	36	87	29	1.008	196	36	114	1.035	105	43.58	10099.4	10236.4
07-Nov-16 00:00:00	36	90	29	1.020	190	36	119	1.104	85	43.59	10100.4	10237.1
07-Nov-16 00:15:00	36	88	29	1.018	193	36	116	1.086	94	43.60	10101.2	10237.9
07-Nov-16 00:30:00	36	89	29	1.017	195	36	116	1.122	73	43.61	10101.9	10238.7
07-Nov-16 00:45:00	36	88	29	1.021	186	36	115	1.088	78	43.62	10102.9	10239.5
07-Nov-16 01:00:00	36	89	29	1.011	190	36	117	0.990	137	43.64	10103.8	10240.3
07-Nov-16 01:15:00	36	88	29	1.012	186	36	112	1.118	47	43.65	10104.5	10241.0
07-Nov-16 01:30:00	36	88	29	1.013	192	36	115	1.067	96	43.66	10105.3	10241.7
07-Nov-16 01:45:00	36	89	29	1.013	190	36	112	1.163	46	43.67	10106.0	10242.4
07-Nov-16 02:00:00	Gas SG=0.642											
07-Nov-16 02:00:00	36	88	29	1.015	186	36	112	1.177	24	43.68	10106.8	10243.0
07-Nov-16 02:15:00	36	89	29	1.014	187	36	115	0.950	157	43.69	10107.5	10243.7
07-Nov-16 02:30:00	36	88	28	1.011	193	36	114	1.049	111	43.70	10108.3	10244.4
07-Nov-16 02:45:00	36	87	28	1.017	186	36	111	1.077	81	43.72	10109.0	10245.1
07-Nov-16 03:00:00	36	88	28	1.009	193	36	115	1.241	18	43.73	10109.6	10245.8
07-Nov-16 03:15:00	36	89	28	1.022	190	36	113	1.077	85	43.74	10110.7	10246.6
07-Nov-16 03:30:00	36	88	28	1.010	187	36	111	1.068	83	43.75	10111.5	10247.4
07-Nov-16 03:45:00	36	89	28	1.014	189	36	116	1.074	94	43.76	10112.3	10248.2
07-Nov-16 04:00:00	36	88	28	1.015	192	36	116	1.175	39	43.77	10113.0	10249.0
07-Nov-16 04:15:00	36	88	28	1.014	190	36	112	1.169	40	43.78	10113.7	10249.8
07-Nov-16 04:30:00	36	87	28	1.009	191	36	114	1.084	78	43.80	10114.6	10250.6
07-Nov-16 04:45:00	36	89	28	1.014	191	36	116	1.039	121	43.81	10115.4	10251.4
07-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
07-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.07mS@21.7degC,Water Density=1015.3kg/m3@23.6DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-248.7mV2, Salinity=39000ppm.											
07-Nov-16 05:00:00	36	89	28	1.014	190	36	111	1.194	25	43.82	10116.3	10252.3
07-Nov-16 05:01:00	Pumped 66 bbls from tank to pond.											
07-Nov-16 05:15:00	36	88	28	1.011	191	35	113	1.132	41	43.83	10116.9	10252.9
07-Nov-16 05:30:00	36	89	28	1.017								10253.6
07-Nov-16 05:45:00	36	89	28	1.014	187	35	112	1.083	75	43.85	10118.4	10254.3
07-Nov-16 06:00:00	36	88	28	1.011	193	35	112	1.193	35	43.86	10119.2	10255.0
07-Nov-16 06:15:00	36	90	28	1.009	191	35	114	1.137	66	43.87	10119.9	10255.6
07-Nov-16 06:25:00	DART computer crashed, needed to restart.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
07-Nov-16 06:30:00	36	88	28	1.022	186	36	111	1.111	55	43.89	10120.7	10256.2
07-Nov-16 06:45:00	36	90	28	1.040	198	37	118	0.953	165	43.90	10121.5	10256.7
07-Nov-16 06:50:00	DART computer restarted, acquisition resumed.											
07-Nov-16 07:00:00	36	88	29	1.019	183	38	112	0.955	116	43.91	10122.1	10257.3
07-Nov-16 07:15:00	36	90	30	1.014	188	38	116	1.090	85	43.92	10123.3	10258.0
07-Nov-16 07:30:00	36	88	31	1.015	183	39	111	1.088	63	43.93	10124.1	10258.7
07-Nov-16 07:45:00	36	91	32	1.013	193	39	118	1.131	72	43.94	10125.3	10259.4
07-Nov-16 08:00:00	Gas SG=0.640											
07-Nov-16 08:00:00	36	90	32	1.014	183	39	113	1.132	39	43.95	10126.2	10260.1
07-Nov-16 08:15:00	36	91	33	1.019	187	40	114	1.206	12	43.96	10127.0	10260.8
07-Nov-16 08:30:00	36	89	33	1.016	190	40	115	1.061	98	43.97	10127.9	10261.4
07-Nov-16 08:45:00	36	89	34	1.012	184	40	111	1.013	79	43.98	10128.8	10262.1
07-Nov-16 09:00:00	36	90	34	1.012	192	41	115	1.075	66	44.00	10129.9	10262.8
07-Nov-16 09:15:00	36	87	35	1.020	190	41	116	1.211	22	44.01	10130.7	10263.6
07-Nov-16 09:30:00	36	77	35	1.030	186	42	116	1.152	41	44.02	10131.5	10264.4
07-Nov-16 09:45:00	36	77	35	1.027	178	42	113	0.921	144	44.03	10132.3	10265.2
07-Nov-16 10:00:00	36	78	36	1.018	183	43	114	1.056	71	44.04	10133.5	10266.0
07-Nov-16 10:15:00	36	77	36	1.017	175	43	110	1.051	58	44.05	10134.6	10266.7
07-Nov-16 10:30:00	36	80	37	1.038	176	44	113	1.037	67	44.06	10135.8	10267.4
07-Nov-16 10:45:00	36	78	38	1.023	181	44	116	0.954	125	44.07	10136.6	10268.1
07-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=3%, Gas SG=0.640.											
07-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=66.1mS@31.3degC,Water Density=1012.8kg/m3@31.8DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-265.1mV2, Salinity=39000ppm.											
07-Nov-16 11:00:00	36	79	38	1.026	181	45	117	1.021	101	44.08	10137.7	10268.8
07-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
07-Nov-16 11:15:00	36	78	39	1.022	185	45	115	0.981	128	44.09	10139.0	10269.6
07-Nov-16 11:30:00	36	79	39	1.024	186	45	117	1.086	82	44.10	10139.9	10270.4
07-Nov-16 11:45:00	36	80	39	1.028	178	45	114	0.996	97	44.11	10140.8	10271.2
07-Nov-16 12:00:00	36	80	40	1.023	182	46	115	1.015	107	44.12	10141.9	10272.0
07-Nov-16 12:15:00	36	80	40	1.028	178	46	113	0.978	108	44.13	10143.1	10272.6
07-Nov-16 12:30:00	36	80	40	1.019	178	46	115	1.058	64	44.14	10144.1	10273.2
07-Nov-16 12:45:00	36	80	41	1.017	182	46	118	0.953	136	44.15	10145.3	10273.8
07-Nov-16 13:00:00	36	82	41	1.018	180	46	114	0.917	157	44.17	10146.4	10274.3
07-Nov-16 13:15:00	36	82	41	1.022	187	44	117	0.940	161	44.18	10147.5	10274.9
07-Nov-16 13:30:00	36	82	41	1.021	188	45	118	1.145	50	44.19	10148.5	10275.5
07-Nov-16 13:45:00	36	76	41	1.031	184	46	116	1.043	95	44.20	10149.6	10276.1
07-Nov-16 14:00:00	Gas SG=0.640											
07-Nov-16 14:00:00	36	77	41	1.023	184	46	115	0.977	111	44.21	10150.7	10276.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
07-Nov-16 14:15:00	36	77	41	1.032	188	46	118	0.903	166	44.22	10152.0	10277.3
07-Nov-16 14:30:00	36	77	41	1.026	185	46	119	1.133	57	44.23	10152.8	10278.0
07-Nov-16 14:45:00	36	76	41	1.028	187	46	116	1.146	46	44.24	10153.7	10278.7
07-Nov-16 15:00:00	36	75	41	1.033	181	46	113	1.038	82	44.25	10154.9	10279.4
07-Nov-16 15:15:00	36	75	41	1.019	188	46	118	1.011	117	44.26	10155.9	10280.0
07-Nov-16 15:30:00	36	75	41	1.037	179	46	111	1.093	43	44.27	10157.2	10280.5
07-Nov-16 15:45:00	36	75	41	1.023	188	45	118	0.978	135	44.28	10158.3	10281.1
07-Nov-16 16:00:00	36	75	41	1.029	183	45	113	1.119	40	44.29	10159.3	10281.7
07-Nov-16 16:15:00	36	75	41	1.026	188	45	117	0.894	192	44.30	10160.5	10282.4
07-Nov-16 16:30:00	WHP dropping, well slugging.											
07-Nov-16 16:30:00	36	66	41	1.011	165	44	103	0.894	91	44.31	10161.4	10283.1
07-Nov-16 16:45:00	36	78	41	0.941	216	44	133	1.272	67	44.32	10162.5	10283.8
07-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
07-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=63.25mS@28degC,Water Density=1014.7kg/m3@29.7DegC, Dissolved Oxygen=1.6%, Oxidation Reduction Potential=-110mV2, Salinity=40000ppm.											
07-Nov-16 17:00:00	36	72	41	1.119	188	44	120	1.181	28	44.34	10163.6	10284.5
07-Nov-16 17:15:00	36	69	40	1.040	188	43	116	1.024	97	44.34	10164.5	10285.3
07-Nov-16 17:30:00	36	69	40	1.049	186	42	116	1.036	88	44.36	10165.3	10286.1
07-Nov-16 17:45:00	36	67	39	1.020	186	42	117	1.098	66	44.37	10166.2	10286.9
07-Nov-16 18:00:00	36	70	39	1.046	186	41	116	1.009	111	44.38	10166.9	10287.7
07-Nov-16 18:15:00	36	67	38	1.028	185	41	114	1.015	108	44.39	10168.0	10288.4
07-Nov-16 18:30:00	36	68	37	1.031	188	40	115	0.947	146	44.40	10169.3	10289.1
07-Nov-16 18:45:00	36	67	37	1.026	189	40	117	1.055	101	44.41	10170.4	10289.7
07-Nov-16 19:00:00	36	67	36	1.028	187	39	116	0.880	173	44.42	10171.4	10290.4
07-Nov-16 19:15:00	36	66	35	1.022	187	39	115	1.063	88	44.43	10172.5	10291.1
07-Nov-16 19:30:00	36	66	34	1.021	188	39	120	0.952	161	44.44	10173.5	10291.8
07-Nov-16 19:45:00	36	66	34	1.033	179	38	114	1.015	81	44.45	10174.4	10292.5
07-Nov-16 20:00:00	Gas SG=0.642.											
07-Nov-16 20:00:00	36	65	33	1.019	193	38	118	1.081	91	44.46	10175.2	10293.2
07-Nov-16 20:15:00	36	65	33	1.027	184	38	114	1.144	29	44.48	10176.1	10293.9
07-Nov-16 20:30:00	36	65	32	1.016	187	38	121	1.158	64	44.49	10176.7	10294.6
07-Nov-16 20:45:00	36	66	32	1.027	190	38	122	0.976	151	44.50	10177.7	10295.3
07-Nov-16 21:00:00	36	66	32	1.027	187	37	115	0.967	139	44.51	10178.6	10296.0
07-Nov-16 21:15:00	36	66	31	1.018	186	37	117	1.066	90	44.52	10179.5	10296.6
07-Nov-16 21:30:00	36	65	31	1.022	192	37	117	1.020	107	44.53	10180.4	10297.3
07-Nov-16 21:45:00	36	65	31	1.017	185	37	114	1.071	80	44.54	10181.2	10298.0
07-Nov-16 22:00:00	36	67	30	1.025	188	37	114	1.021	96	44.55	10182.2	10298.7
07-Nov-16 22:15:00	36	65	30	1.025	191	37	117	0.982	148	44.57	10183.2	10299.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
07-Nov-16 22:30:00	36	66	30	1.023	191	37	117	1.008	134	44.58	10184.0	10300.3
07-Nov-16 22:45:00	36	67	30	1.026	190	37	117	1.075	99	44.59	10184.7	10301.1
07-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
07-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.17mS@23.5degC,Water Density=1014.7kg/m3@25.1DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-276.1mV2, Salinity=39000ppm.											
07-Nov-16 23:00:00	36	65	30	1.026	188	37	117	1.050	108	44.60	10185.6	10301.9
07-Nov-16 23:15:00	36	65	30	1.028	185	37	113	1.125	55	44.61	10186.6	10302.6
07-Nov-16 23:30:00	36	65	30	1.019	185	38	115	1.022	106	44.62	10187.4	10303.3
07-Nov-16 23:45:00	36	65	30	1.021	185	38	113	0.843	196	44.63	10188.4	10304.0
08-Nov-16 00:00:00	36	65	30	1.024	187	38	113	1.056	85	44.64	10189.4	10304.7
08-Nov-16 00:15:00	36	66	31	1.025	182	38	111	0.953	133	44.65	10190.3	10305.4
08-Nov-16 00:30:00	36	65	31	1.023	190	38	116	1.029	115	44.67	10191.2	10306.1
08-Nov-16 00:45:00	36	66	30	1.034	183	37	113	0.933	158	44.68	10192.0	10306.8
08-Nov-16 00:48:00	DART computer crashed, needed to restart.											
08-Nov-16 01:00:00	36	65	30	1.009	190	37	115	1.237	11	44.69	10192.7	10307.5
08-Nov-16 01:15:00	36	65	30	1.005	185	37	115	1.015	117	44.70	10193.8	10308.1
08-Nov-16 01:30:00	36	65	30	1.005	187	37	112	1.127	61	44.71	10194.6	10308.8
08-Nov-16 01:45:00	36	65	30	1.005	185	37	117	1.010	130	44.72	10195.7	10309.5
08-Nov-16 02:00:00	36	65	30	1.005	197	37	121	1.073	117	44.73	10196.6	10310.2
08-Nov-16 02:15:00	36	65	30	1.005	185	37	115	1.060	76	44.74	10197.3	10311.0
08-Nov-16 02:30:00	36	64	29	1.005	194	36	117	1.300	12	44.76	10198.3	10311.8
08-Nov-16 02:43:00	DART computer restarted, acquisition resumed.											
08-Nov-16 02:45:00	36	65	29	1.005	184	36	113	1.117	57	44.77	10198.9	10312.6
08-Nov-16 03:00:00	36	65	29	1.025	193	36	119	1.167	52	44.78	10199.8	10313.4
08-Nov-16 03:15:00	36	66	29	1.032	187	36	114	1.025	121	44.79	10200.8	10314.1
08-Nov-16 03:30:00	36	66	29	1.025	184	36	113	1.136	35	44.80	10201.7	10314.8
08-Nov-16 03:45:00	36	66	29	1.026	182	36	112	1.177	26	44.81	10202.3	10315.5
08-Nov-16 04:00:00	36	65	29	1.021	178	36	110	0.917	141	44.82	10203.2	10316.2
08-Nov-16 04:15:00	36	66	29	1.011	189	37	115	1.042	113	44.83	10204.1	10316.9
08-Nov-16 04:30:00	36	66	29	1.033	179	37	110	1.064	72	44.84	10205.2	10317.6
08-Nov-16 04:45:00	36	66	29	1.022	183	37	114	1.146	40	44.86	10206.2	10318.3
08-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											
08-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.36mS@21.4degC,Water Density=1015.3kg/m3@23.4DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-278.2mV2, Salinity=39000ppm.											
08-Nov-16 05:00:00	36	65	29	1.028	187	37	116	1.103	63	44.87	10207.0	10319.0
08-Nov-16 05:01:00	Pumped 69.9 bbls from tank to pond.											
08-Nov-16 05:15:00	36	66	29	1.026	189	37	114	1.091	79	44.88	10207.9	10319.6
08-Nov-16 05:30:00	36	65	29	1.026								10320.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
08-Nov-16 05:45:00	36	66	29	1.020	191	37	116	1.132	52	44.90	10209.8	10321.0
08-Nov-16 06:00:00	36	67	29	1.027	187	37	114	1.129	53	44.91	10210.6	10321.7
08-Nov-16 06:15:00	36	65	29	1.026	184	37	112	1.041	89	44.92	10211.4	10322.4
08-Nov-16 06:30:00	36	65	29	1.026	186	37	115	0.958	140	44.93	10212.4	10323.1
08-Nov-16 06:45:00	36	65	29	1.023	180	38	119	1.021	112	44.94	10213.3	10323.8
08-Nov-16 07:00:00	36	66	30	1.022	179	38	115	0.954	127	44.95	10214.6	10324.5
08-Nov-16 07:15:00	36	65	30	1.023	183	39	116	0.990	126	44.96	10215.4	10325.0
08-Nov-16 07:30:00	36	66	31	1.030	179	38	113	1.074	64	44.97	10216.5	10325.6
08-Nov-16 07:45:00	36	65	31	1.027	185	39	114	0.894	181	44.99	10217.5	10326.2
08-Nov-16 08:00:00	Gas SG=0.640.											
08-Nov-16 08:00:00	36	67	32	1.030	184	39	113	1.089	76	45.00	10218.3	10326.8
08-Nov-16 08:15:00	36	65	32	1.027	184	40	115	1.077	77	45.01	10219.3	10327.5
08-Nov-16 08:30:00	36	66	33	1.027	187	40	114	1.099	57	45.02	10220.3	10328.2
08-Nov-16 08:45:00	36	67	33	1.030	188	41	115	1.056	65	45.03	10221.1	10328.8
08-Nov-16 09:00:00	36	67	34	1.033	186	41	115	1.082	46	45.04	10221.9	10329.5
08-Nov-16 09:15:00	36	66	34	1.021	182	41	116	1.172	25	45.05	10222.9	10330.2
08-Nov-16 09:30:00	36	67	34	1.025	186	42	118	1.121	56	45.06	10223.8	10330.9
08-Nov-16 09:45:00	36	66	35	1.028	184	42	115	1.090	69	45.07	10224.7	10331.6
08-Nov-16 10:00:00	36	67	35	1.027	179	43	113	1.162	16	45.08	10225.6	10332.3
08-Nov-16 10:15:00	36	66	36	1.026	182	43	116	0.958	126	45.09	10226.5	10333.0
08-Nov-16 10:30:00	Took ALS sample from Separator. Cumulative=10334bbls, EC=65.6mS@31.1degC, pH=6.1.											
08-Nov-16 10:30:00	36	67	36	1.028	179	43	115	0.984	110	45.11	10227.3	10333.7
08-Nov-16 10:45:00	36	67	37	1.027	181	44	115	0.990	104	45.12	10228.3	10334.4
08-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
08-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=63.2mS@28.4degC,Water Density=1013.4kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-226mV2, Salinity=40000ppm.											
08-Nov-16 11:00:00	36	68	37	1.031	180	44	117	0.993	104	45.13	10229.7	10335.0
08-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
08-Nov-16 11:15:00	36	67	37	1.030	176	44	120	1.036	81	45.14	10230.7	10335.7
08-Nov-16 11:30:00	36	67	38	1.030	178	44	119	1.127	28	45.15	10231.7	10336.4
08-Nov-16 11:45:00	36	67	38	1.028	178	45	116	1.025	81	45.16	10232.8	10337.1
08-Nov-16 12:00:00	36	66	38	1.028	180	45	114	1.012	52	45.17	10233.7	10337.8
08-Nov-16 12:15:00	36	67	38	1.024	177	45	114	0.884	149	45.18	10234.5	10338.5
08-Nov-16 12:30:00	36	67	39	1.026	177	45	114	0.957	113	45.19	10235.5	10339.2
08-Nov-16 12:45:00	36	67	39	1.027	183	45	114	1.131	41	45.20	10236.5	10339.9
08-Nov-16 13:00:00	36	67	39	1.030	176	45	113	0.989	74	45.21	10237.6	10340.6
08-Nov-16 13:15:00	36	68	40	1.027	184	45	117	1.173	25	45.22	10238.6	10341.0
08-Nov-16 13:30:00	36	69	40	1.038	183	46	117	1.031	90	45.23	10239.3	10341.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
08-Nov-16 13:45:00	36	67	40	1.028	182	45	114	0.982	117	45.24	10240.4	10342.0
08-Nov-16 14:00:00	Gas SG=0.640.											
08-Nov-16 14:00:00	36	68	40	1.027	190	45	118	1.138	57	45.25	10241.5	10342.4
08-Nov-16 14:15:00	36	68	40	1.032	184	45	114	0.862	173	45.26	10242.6	10343.0
08-Nov-16 14:30:00	36	67	40	1.024	187	45	115	0.915	169	45.27	10243.6	10343.6
08-Nov-16 14:45:00	36	67	40	1.025	192	43	120	1.097	99	45.28	10244.6	10344.1
08-Nov-16 15:00:00	36	67	40	1.038	183	45	114	1.074	64	45.30	10245.5	10344.7
08-Nov-16 15:15:00	36	68	40	1.022	187	45	118	0.957	141	45.31	10246.5	10345.5
08-Nov-16 15:30:00	36	68	40	1.030	187	45	116	0.969	153	45.32	10247.3	10346.3
08-Nov-16 15:45:00	36	68	40	1.031	183	45	112	0.844	188	45.33	10248.3	10347.1
08-Nov-16 16:00:00	36	67	40	1.030	182	45	115	0.905	144	45.34	10249.3	10347.9
08-Nov-16 16:15:00	36	67	40	1.027	183	45	113	0.915	122	45.35	10250.3	10348.6
08-Nov-16 16:30:00	36	68	40	1.024	182	45	117	1.006	108	45.36	10251.4	10349.3
08-Nov-16 16:45:00	36	67	40	1.025	188	44	115	1.037	97	45.37	10252.4	10350.0
08-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
08-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=65.31mS@30degC,Water Density=1013.8kg/m3@31.3DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-250.3mV2, Salinity=40000ppm.											
08-Nov-16 17:00:00	36	67	40	1.024	187	44	114	0.977	109	45.38	10253.5	10350.7
08-Nov-16 17:15:00	36	69	40	1.028	184	43	113	0.918	120	45.39	10254.5	10351.4
08-Nov-16 17:30:00	36	68	39	1.024	185	42	115	1.050	82	45.40	10255.4	10352.1
08-Nov-16 17:45:00	36	68	39	1.025	181	42	113	0.962	134	45.41	10256.2	10352.8
08-Nov-16 18:00:00	36	68	38	1.019	180	41	113	1.023	85	45.42	10257.3	10353.5
08-Nov-16 18:15:00	36	66	38	1.019	183	41	112	1.002	85	45.43	10258.1	10354.1
08-Nov-16 18:30:00	36	68	37	1.025	192	40	118	1.067	94	45.44	10259.2	10354.8
08-Nov-16 18:45:00	36	66	36	1.030	182	40	113	1.192	12	45.45	10259.8	10355.5
08-Nov-16 19:00:00	36	68	36	1.021	187	39	116	0.906	185	45.47	10260.8	10356.2
08-Nov-16 19:15:00	36	68	35	1.032	180	39	114	1.016	80	45.48	10261.9	10356.8
08-Nov-16 19:30:00	36	65	35	1.012	187	39	116	1.077	89	45.49	10263.0	10357.4
08-Nov-16 19:45:00	36	67	34	1.027	186	39	119	1.131	65	45.50	10263.9	10357.9
08-Nov-16 20:00:00	Gas SG=0.642.											
08-Nov-16 20:00:00	36	67	34	1.025	184	38	116	1.020	114	45.51	10264.6	10358.5
08-Nov-16 20:15:00	36	67	33	1.027	186	38	117	1.076	81	45.52	10265.3	10359.1
08-Nov-16 20:30:00	36	67	33	1.029	183	38	116	1.038	91	45.53	10266.1	10359.7
08-Nov-16 20:45:00	36	66	33	1.022	186	38	112	1.073	84	45.54	10266.8	10360.2
08-Nov-16 21:00:00	36	66	32	1.025	186	38	115	1.202	18	45.55	10267.9	10360.8
08-Nov-16 21:15:00	36	66	32	1.023	188	38	116	1.054	85	45.57	10268.4	10361.5
08-Nov-16 21:30:00	36	66	32	1.026	186	38	114	1.085	51	45.58	10269.3	10362.2
08-Nov-16 21:45:00	36	66	32	1.021	186	38	119	0.980	154	45.59	10270.3	10362.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
08-Nov-16 22:00:00	36	66	31	1.028	184	37	114	1.075	70	45.60	10271.2	10363.6
08-Nov-16 22:15:00	36	65	31	1.021	188	37	116	0.940	153	45.61	10272.3	10364.1
08-Nov-16 22:30:00	36	65	31	1.017	183	38	113	0.988	121	45.62	10273.3	10364.7
08-Nov-16 22:45:00	36	65	31	1.021	184	38	113	1.019	113	45.63	10274.1	10365.3
08-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
08-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.06mS@23.8degC,Water Density=1015kg/m3@25.5DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-280.2mV2, Salinity=40000ppm.											
08-Nov-16 23:00:00	36	67	31	1.022	189	38	116	1.081	68	45.64	10274.9	10365.9
08-Nov-16 23:15:00	36	65	31	1.027	181	38	113	0.858	187	45.65	10276.0	10366.4
08-Nov-16 23:30:00	36	66	31	1.019	190	38	118	1.057	123	45.67	10276.9	10367.0
08-Nov-16 23:45:00	36	66	31	1.024	182	37	114	0.988	96	45.68	10277.9	10367.6
09-Nov-16 00:00:00	36	65	31	1.017	190	37	116	1.108	64	45.69	10278.8	10368.2
09-Nov-16 00:15:00	36	66	31	1.021	182	37	112	1.005	121	45.70	10279.8	10368.6
09-Nov-16 00:30:00	36	65	31	1.021	186	37	114	1.101	67	45.71	10280.8	10369.1
09-Nov-16 00:45:00	36	65	31	1.024	185	37	113	1.114	60	45.72	10281.6	10369.6
09-Nov-16 01:00:00	36	63	31	1.025	171	37	105	0.985	74	45.73	10282.7	10370.0
09-Nov-16 01:15:00	36	65	31	0.979	204	37	123	0.979	183	45.74	10283.6	10370.7
09-Nov-16 01:30:00	36	67	31	1.068	183	37	114	0.940	151	45.75	10284.9	10371.4
09-Nov-16 01:45:00	36	66	30	1.023	186	37	114	1.069	82	45.76	10285.5	10372.1
09-Nov-16 02:00:00	Gas SG=0.642											
09-Nov-16 02:00:00	36	67	30	1.035	183	37	115	1.132	46	45.78	10286.3	10372.8
09-Nov-16 02:15:00	36	65	30	1.023	184	37	114	1.142	32	45.79	10287.1	10373.5
09-Nov-16 02:30:00	36	66	30	1.020	181	37	111	1.221	0	45.80	10288.1	10374.2
09-Nov-16 02:45:00	36	65	30	1.021	188	37	114	1.061	81	45.81	10289.0	10374.8
09-Nov-16 03:00:00	36	65	30	1.024	183	37	112	1.010	90	45.82	10290.1	10375.5
09-Nov-16 03:15:00	36	66	30	1.023	183	37	112	1.174	17	45.83	10291.0	10376.2
09-Nov-16 03:30:00	36	64	30	1.019	188	37	114	0.918	171	45.84	10291.9	10376.9
09-Nov-16 03:45:00	36	66	30	1.022	196	37	118	1.100	127	45.85	10292.9	10377.6
09-Nov-16 04:00:00	36	65	30	1.032	185	37	113	0.932	158	45.86	10293.7	10378.3
09-Nov-16 04:15:00	36	66	30	1.024	189	37	118	0.977	132	45.87	10294.6	10379.1
09-Nov-16 04:30:00	36	65	30	1.027	189	37	117	1.086	83	45.89	10295.3	10379.9
09-Nov-16 04:45:00	36	65	30	1.020	186	37	113	0.884	177	45.90	10296.2	10380.7
09-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=3%, Gas SG=0.642.											
09-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.06mS@22.6degC,Water Density=1015kg/m3@24.3DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-289.8mV2, Salinity=39000ppm.											
09-Nov-16 05:00:00	36	65	30	1.016	189	37	115	1.133	60	45.91	10297.1	10381.5
09-Nov-16 05:01:00	Pumped 60.3 bbls from tank to pond.											
09-Nov-16 05:15:00	36	66	30	1.026	187	37	114	1.015	96	45.92	10298.3	10382.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
09-Nov-16 05:30:00	36	66	30	1.017								10382.9
09-Nov-16 05:45:00	36	66	30	1.025	186	37	113	1.015	111	45.94	10299.9	10383.6
09-Nov-16 06:00:00	36	66	30	1.028	184	37	117	1.157	44	45.95	10300.8	10384.3
09-Nov-16 06:15:00	36	65	30	1.024	186	37	113	1.082	54	45.96	10301.6	10385.1
09-Nov-16 06:30:00	36	66	30	1.024	183	38	117	1.013	122	45.97	10302.6	10385.9
09-Nov-16 06:45:00	36	65	30	1.015	183	38	112	1.167	13	45.98	10303.6	10386.7
09-Nov-16 07:00:00	36	65	31	1.025	176	38	111	1.035	85	45.99	10304.5	10387.5
09-Nov-16 07:15:00	36	67	31	1.020	191	39	118	0.961	164	46.00	10305.4	10388.2
09-Nov-16 07:30:00	36	65	32	1.032	184	39	113	0.969	122	46.02	10306.6	10388.9
09-Nov-16 07:45:00	36	66	32	1.019	188	39	114	1.033	89	46.03	10307.3	10389.6
09-Nov-16 08:00:00	Gas SG=0.640.											
09-Nov-16 08:00:00	36	66	33	1.027	179	40	118	1.129	54	46.04	10308.2	10390.3
09-Nov-16 08:15:00	36	66	33	1.023	182	40	113	0.974	109	46.05	10309.3	10390.8
09-Nov-16 08:30:00	36	66	33	1.025	185	40	114	1.047	83	46.06	10310.2	10391.4
09-Nov-16 08:45:00	36	67	34	1.032	185	41	114	1.037	95	46.07	10311.0	10392.0
09-Nov-16 09:00:00	36	66	34	1.029	189	41	116	1.052	108	46.08	10312.1	10392.5
09-Nov-16 09:15:00	36	66	35	1.028	187	42	117	1.021	118	46.09	10313.0	10393.1
09-Nov-16 09:30:00	36	66	35	1.028	184	42	115	1.059	74	46.10	10313.9	10393.7
09-Nov-16 09:45:00	36	66	36	1.028	185	43	115	1.127	61	46.11	10315.0	10394.3
09-Nov-16 10:00:00	36	66	36	1.031	177	43	113	1.146	21	46.12	10316.0	10394.9
09-Nov-16 10:15:00	36	67	37	1.028	178	43	116	0.938	143	46.13	10317.0	10395.5
09-Nov-16 10:30:00	36	67	37	1.028	176	44	111	0.984	101	46.14	10318.0	10396.2
09-Nov-16 10:45:00	36	67	37	1.017	181	44	115	1.186	17	46.15	10319.1	10396.9
09-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
09-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=66mS@30degC,Water Density=1013.1kg/m3@31.1DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-252mV2, Salinity=40000ppm.											
09-Nov-16 11:00:00	36	69	38	1.030	180	44	115	1.036	88	46.17	10320.1	10397.6
09-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
09-Nov-16 11:15:00	36	67	38	1.024	176	45	113	0.950	114	46.18	10321.0	10398.3
09-Nov-16 11:30:00	36	68	39	1.029	183	45	121	1.074	84	46.19	10322.0	10399.0
09-Nov-16 11:45:00	36	67	39	1.030	177	45	113	0.994	97	46.20	10323.0	10399.7
09-Nov-16 12:00:00	36	68	39	1.030	177	45	113	0.992	97	46.21	10324.0	10400.4
09-Nov-16 12:15:00	36	67	39	1.028	183	46	116	1.065	75	46.22	10324.8	10401.1
09-Nov-16 12:30:00	36	68	40	1.030	178	46	113	1.030	49	46.23	10325.8	10401.8
09-Nov-16 12:45:00	36	68	40	1.024	179	46	114	0.892	162	46.24	10326.8	10402.4
09-Nov-16 13:00:00	36	68	40	1.027	183	46	114	1.041	84	46.25	10327.9	10403.1
09-Nov-16 13:15:00	36	69	41	1.034	176	46	111	0.892	141	46.26	10328.7	10403.8
09-Nov-16 13:30:00	36	69	41	1.024	183	45	117	0.942	140	46.27	10329.6	10404.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
09-Nov-16 13:45:00	36	69	40	1.028	181	43	116	1.151	36	46.28	10330.5	10405.2
09-Nov-16 14:00:00	Gas SG=0.640.											
09-Nov-16 14:00:00	36	69	40	1.031	182	44	114	0.950	133	46.29	10331.6	10405.9
09-Nov-16 14:15:00	36	68	40	1.027	178	44	111	1.070	55	46.30	10332.4	10406.3
09-Nov-16 14:30:00	36	68	40	1.018	188	44	116	1.033	99	46.31	10333.5	10406.8
09-Nov-16 14:45:00	36	68	40	1.033	178	45	112	0.948	115	46.32	10334.6	10407.3
09-Nov-16 15:00:00	36	69	40	1.027	189	45	119	1.055	81	46.33	10335.5	10407.7
09-Nov-16 15:15:00	36	68	40	1.030	182	46	113	1.038	85	46.34	10336.5	10408.2
09-Nov-16 15:30:00	36	68	41	1.021	181	45	115	0.890	162	46.35	10337.6	10408.7
09-Nov-16 15:45:00	36	69	41	1.024	183	45	116	0.987	113	46.36	10338.7	10409.1
09-Nov-16 16:00:00	36	70	40	1.028	185	44	116	1.005	94	46.37	10339.6	10409.6
09-Nov-16 16:15:00	36	69	39	1.024	187	42	115	1.032	103	46.39	10340.6	10410.0
09-Nov-16 16:30:00	36	68	39	1.026	178	42	113	0.951	106	46.40	10341.5	10410.5
09-Nov-16 16:45:00	36	67	38	1.018	186	41	116	1.082	76	46.41	10342.5	10411.0
09-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
09-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.2mS@28.9degC,Water Density=1013.8kg/m3@30.4DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-295.1mV2, Salinity=40000ppm.											
09-Nov-16 17:00:00	36	69	38	1.027	179	41	114	0.987	115	46.42	10343.6	10411.4
09-Nov-16 17:15:00	36	68	37	1.016	186	41	115	1.095	57	46.43	10344.6	10412.0
09-Nov-16 17:30:00	36	67	37	1.025	184	41	113	1.064	77	46.44	10345.4	10412.6
09-Nov-16 17:45:00	36	68	37	1.020	185	41	117	0.997	108	46.45	10346.4	10413.1
09-Nov-16 18:00:00	36	68	36	1.026	182	40	114	1.072	68	46.46	10347.3	10413.7
09-Nov-16 18:15:00	36	67	36	1.021	181	40	112	1.036	83	46.47	10348.3	10414.4
09-Nov-16 18:30:00	36	68	36	1.014	184	40	118	1.133	56	46.48	10349.0	10415.1
09-Nov-16 18:45:00	36	68	35	1.030	183	40	114	1.167	32	46.49	10350.1	10415.8
09-Nov-16 19:00:00	36	68	35	1.019	184	39	113	1.119	50	46.50	10350.9	10416.5
09-Nov-16 19:15:00	36	68	34	1.024	181	39	113	0.933	144	46.51	10351.9	10417.2
09-Nov-16 19:30:00	36	68	34	1.019	183	39	115	0.903	169	46.52	10352.9	10417.9
09-Nov-16 19:45:00	36	67	34	1.025	185	39	115	0.978	136	46.53	10353.9	10418.5
09-Nov-16 20:00:00	Gas SG=0.642.											
09-Nov-16 20:00:00	36	67	33	1.022	180	38	114	1.113	48	46.55	10354.7	10419.2
09-Nov-16 20:15:00	36	67	33	1.018	184	38	114	1.110	60	46.56	10355.6	10419.9
09-Nov-16 20:30:00	36	67	33	1.016	188	38	115	1.229	21	46.57	10356.5	10420.6
09-Nov-16 20:45:00	36	68	33	1.022	188	38	115	1.032	101	46.58	10357.3	10421.3
09-Nov-16 21:00:00	36	67	33	1.016	186	39	114	1.021	103	46.59	10358.4	10422.0
09-Nov-16 21:15:00	36	67	33	1.023	184	39	113	1.017	106	46.60	10359.5	10422.7
09-Nov-16 21:30:00	36	67	33	1.019	185	39	117	1.009	119	46.61	10360.2	10423.4
09-Nov-16 21:45:00	36	67	33	1.024	180	39	112	0.975	118	46.62	10361.1	10424.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
09-Nov-16 22:00:00	36	68	33	1.011	187	38	115	1.041	102	46.63	10362.0	10424.8
09-Nov-16 22:15:00	36	67	32	1.026	181	38	112	1.061	71	46.64	10362.9	10425.3
09-Nov-16 22:30:00	36	67	32	1.016	185	38	115	1.148	52	46.66	10363.7	10425.9
09-Nov-16 22:45:00	36	67	32	1.018	187	38	116	1.069	85	46.67	10364.5	10426.5
09-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
09-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=57.48mS@21.7degC,Water Density=1016.3kg/m3@23.6DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-263.8mV2, Salinity=41000ppm.											
09-Nov-16 23:00:00	36	67	32	1.032	178	38	115	1.107	41	46.68	10365.1	10427.0
09-Nov-16 23:15:00	36	66	32	1.011	187	38	115	0.931	157	46.69	10366.0	10427.6
09-Nov-16 23:30:00	36	67	32	1.028	181	38	115	1.097	67	46.70	10366.9	10428.2
09-Nov-16 23:45:00	36	67	32	1.020	185	37	117	1.106	71	46.71	10367.8	10428.8
10-Nov-16 00:00:00	36	67	31	1.021	183	37	111	1.130	43	46.72	10368.8	10429.4
10-Nov-16 00:15:00	36	66	31	1.010	186	38	114	1.231	13	46.73	10369.5	10429.9
10-Nov-16 00:30:00	36	68	31	1.036	183	38	115	1.039	104	46.74	10370.5	10430.5
10-Nov-16 00:45:00	36	67	31	1.016	186	37	113	1.020	99	46.75	10371.4	10431.1
10-Nov-16 01:00:00	36	67	31	1.024	181	37	114	1.020	79	46.77	10372.2	10431.7
10-Nov-16 01:15:00	36	67	31	1.023	184	37	113	1.060	82	46.78	10373.2	10432.2
10-Nov-16 01:30:00	36	67	31	1.021	184	37	114	1.179	24	46.79	10374.1	10432.8
10-Nov-16 01:45:00	36	67	31	1.024	183	37	113	1.063	84	46.80	10375.0	10433.4
10-Nov-16 02:00:00	Gas SG=0.642.											
10-Nov-16 02:00:00	36	67	31	1.018	186	37	113	1.039	86	46.81	10376.1	10434.0
10-Nov-16 02:15:00	36	67	30	1.017	184	37	114	1.080	80	46.82	10377.0	10434.5
10-Nov-16 02:30:00	36	68	30	1.019	185	37	114	0.992	119	46.83	10377.6	10435.1
10-Nov-16 02:45:00	36	68	30	1.023	185	37	113	1.215	0	46.84	10378.4	10435.7
10-Nov-16 03:00:00	36	67	30	1.017	183	37	112	1.114	56	46.85	10379.2	10436.3
10-Nov-16 03:15:00	36	66	30	1.023	184	37	111	1.032	85	46.86	10380.1	10437.1
10-Nov-16 03:30:00	36	66	30	1.012	190	37	118	0.985	134	46.87	10380.9	10437.9
10-Nov-16 03:45:00	36	67	30	1.039	175	37	114	1.154	19	46.88	10381.8	10438.7
10-Nov-16 04:00:00	36	66	30	1.015	185	37	113	1.093	64	46.89	10382.8	10439.5
10-Nov-16 04:15:00	36	67	30	1.025	184	37	115	0.952	150	46.91	10383.8	10440.2
10-Nov-16 04:30:00	36	67	30	1.018	184	37	113	1.140	53	46.92	10384.6	10440.9
10-Nov-16 04:45:00	36	67	30	1.023	185	37	112	1.095	58	46.93	10385.4	10441.5
10-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=3%, Gas SG=0.642.											
10-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.18mS@21degC,Water Density=1016.3kg/m3@23.1DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-281.7mV2, Salinity=41000ppm.											
10-Nov-16 05:00:00	36	67	30	1.018	184	37	114	1.111	56	46.94	10386.0	10442.2
10-Nov-16 05:15:00	36	67	30	1.024	184	37	114	0.993	119	46.95	10386.9	10442.9
10-Nov-16 05:30:00	36	68	30	1.029								10443.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
10-Nov-16 05:45:00	36	67	30	1.021	182	37	111	0.956	113	46.97	10388.5	10444.3
10-Nov-16 06:00:00	36	68	30	1.022	184	37	114	0.994	112	46.98	10389.4	10445.0
10-Nov-16 06:15:00	36	67	30	1.023	182	38	112	1.193	10	46.99	10390.1	10445.7
10-Nov-16 06:30:00	36	67	30	1.021	182	38	111	1.063	69	47.00	10391.0	10446.4
10-Nov-16 06:45:00	36	67	31	1.022	182	38	114	1.022	104	47.01	10391.9	10447.1
10-Nov-16 07:00:00	36	67	31	1.028	177	39	115	1.127	35	47.02	10392.8	10447.8
10-Nov-16 07:15:00	36	67	32	1.022	179	39	112	1.081	68	47.03	10393.7	10448.3
10-Nov-16 07:30:00	36	66	32	1.018	181	39	113	1.021	93	47.04	10394.7	10448.9
10-Nov-16 07:45:00	36	68	32	1.023	182	39	115	1.068	73	47.05	10395.6	10449.5
10-Nov-16 08:00:00	Gas SG=0.640.											
10-Nov-16 08:00:00	Pumped 65.3 bbls from tank to pond.											
10-Nov-16 08:00:00	36	67	33	1.021	183	40	113	1.174	28	47.07	10396.6	10450.0
10-Nov-16 08:15:00	36	68	33	1.023	185	40	116	1.151	44	47.08	10397.5	10450.7
10-Nov-16 08:30:00	36	67	34	1.030	180	41	116	0.985	125	47.09	10398.3	10451.4
10-Nov-16 08:45:00	36	67	34	1.026	184	41	115	1.009	110	47.10	10399.2	10452.1
10-Nov-16 09:00:00	36	67	35	1.024	183	41	115	1.111	57	47.11	10400.2	10452.8
10-Nov-16 09:15:00	36	67	35	1.028	178	42	111	0.983	105	47.12	10401.1	10453.5
10-Nov-16 09:30:00	36	67	35	1.021	179	42	113	0.881	171	47.13	10402.2	10454.2
10-Nov-16 09:45:00	36	67	36	1.024	184	43	113	0.996	106	47.14	10403.2	10454.9
10-Nov-16 10:00:00	36	68	36	1.023	177	43	114	0.980	79	47.15	10404.2	10455.6
10-Nov-16 10:15:00	36	68	37	1.023	181	43	115	0.964	123	47.16	10405.3	10455.9
10-Nov-16 10:30:00	36	68	37	1.030	179	42	113	0.904	152	47.17	10406.4	10456.3
10-Nov-16 10:45:00	36	68	37	1.030	175	44	111	0.912	129	47.18	10407.6	10456.6
10-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
10-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.5mS@28.3degC,Water Density=1014.1kg/m3@29.8DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-260mV2, Salinity=41000ppm.											
10-Nov-16 11:00:00	36	69	37	1.021	184	43	114	1.265	10	47.19	10408.4	10457.0
10-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
10-Nov-16 11:15:00	36	68	37	1.030	180	44	116	0.881	173	47.20	10409.6	10457.6
10-Nov-16 11:30:00	36	68	37	1.024	183	43	114	1.008	105	47.21	10410.6	10458.3
10-Nov-16 11:45:00	36	69	38	1.030	180	44	115	1.034	78	47.22	10411.5	10459.0
10-Nov-16 12:00:00	36	68	38	1.025	179	45	115	1.031	80	47.23	10412.3	10459.7
10-Nov-16 12:15:00	36	69	39	1.026	179	46	114	1.147	25	47.25	10413.3	10460.3
10-Nov-16 12:30:00	36	69	39	1.031	178	45	115	1.022	76	47.26	10414.3	10460.9
10-Nov-16 12:45:00	36	69	39	1.024	182	45	114	0.926	122	47.27	10415.3	10461.4
10-Nov-16 13:00:00	36	68	40	1.030	178	45	113	1.143	25	47.28	10416.4	10462.0
10-Nov-16 13:15:00	36	68	40	1.026	177	45	114	0.977	109	47.29	10417.6	10462.6
10-Nov-16 13:30:00	36	68	39	1.022	180	44	113	0.957	142	47.30	10418.5	10463.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
10-Nov-16 13:45:00	36	69	39	1.028	186	45	116	0.906	171	47.31	10419.6	10463.7
10-Nov-16 14:00:00	Gas SG=0.640.											
10-Nov-16 14:00:00	36	68	40	1.025	185	45	115	1.088	56	47.32	10420.5	10464.3
10-Nov-16 14:15:00	36	69	40	1.028	184	45	113	1.144	38	47.33	10421.6	10464.9
10-Nov-16 14:30:00	36	69	39	1.028	185	43	116	1.020	100	47.34	10422.6	10465.5
10-Nov-16 14:45:00	36	69	39	1.028	178	44	111	0.919	138	47.35	10423.6	10466.0
10-Nov-16 15:00:00	36	69	39	1.024	182	44	117	1.064	84	47.36	10424.8	10466.6
10-Nov-16 15:15:00	36	68	39	1.018	183	43	113	0.961	114	47.37	10425.9	10467.2
10-Nov-16 15:30:00	36	70	38	1.025	188	41	116	0.917	173	47.38	10427.0	10467.8
10-Nov-16 15:45:00	36	68	38	1.023	186	42	117	0.971	131	47.39	10427.7	10468.3
10-Nov-16 16:00:00	36	70	38	1.029	184	43	115	1.142	27	47.40	10428.5	10468.9
10-Nov-16 16:15:00	36	70	38	1.029	183	43	116	0.964	106	47.41	10429.6	10469.5
10-Nov-16 16:30:00	36	69	38	1.029	183	43	117	1.110	56	47.42	10430.5	10470.1
10-Nov-16 16:45:00	36	69	38	1.026	180	43	118	0.998	120	47.43	10431.4	10470.6
10-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
10-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=63.32mS@28.6degC,Water Density=1013.9kg/m3@29.9DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-241.5mV2, Salinity=40000ppm.											
10-Nov-16 17:00:00	36	69	38	1.026	183	43	114	1.008	102	47.45	10432.6	10471.2
10-Nov-16 17:15:00	36	69	38	1.027	180	42	112	0.974	97	47.45	10433.4	10471.8
10-Nov-16 17:30:00	36	69	38	1.022	183	42	116	0.955	144	47.47	10434.3	10472.4
10-Nov-16 17:45:00	36	69	38	1.025	183	42	113	1.005	101	47.48	10435.2	10472.9
10-Nov-16 18:00:00	36	69	38	1.019	182	41	113	0.955	122	47.49	10436.3	10473.5
10-Nov-16 18:15:00	36	68	37	1.019	180	41	110	0.896	151	47.50	10437.4	10474.3
10-Nov-16 18:30:00	36	68	36	1.020	186	39	116	1.083	79	47.51	10438.2	10475.1
10-Nov-16 18:45:00	36	68	35	1.025	182	38	115	0.958	115	47.52	10439.1	10475.9
10-Nov-16 19:00:00	36	69	34	1.017	183	38	113	1.139	54	47.53	10440.1	10476.7
10-Nov-16 19:15:00	36	69	34	1.021	186	38	116	1.119	68	47.54	10441.0	10477.4
10-Nov-16 19:30:00	36	69	33	1.027	182	38	114	0.945	133	47.55	10441.7	10478.1
10-Nov-16 19:45:00	36	68	33	1.023	184	38	115	1.156	31	47.56	10442.7	10478.8
10-Nov-16 20:00:00	Gas SG=0.642.											
10-Nov-16 20:00:00	36	67	33	1.024	183	38	112	1.085	70	47.57	10443.7	10479.5
10-Nov-16 20:15:00	36	67	32	1.014	184	38	118	1.169	44	47.58	10444.6	10480.2
10-Nov-16 20:30:00	36	68	32	1.019	186	38	113	1.112	59	47.60	10445.3	10480.9
10-Nov-16 20:40:00	DART computer crashed, needed to restart.											
10-Nov-16 20:45:00	36	68	32	1.021	180	38	115	1.116	56	47.61	10446.2	10481.6
10-Nov-16 21:00:00	36	68	32	1.024	182	38	115	1.235	3	47.62	10447.2	10482.3
10-Nov-16 21:05:00	DART computer restarted, acquisition resumed.											
10-Nov-16 21:15:00	36	68	32	1.020	186	38	115	1.151	31	47.63	10448.1	10482.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
10-Nov-16 21:30:00	36	67	32	1.022	187	38	115	1.017	98	47.64	10449.0	10483.6
10-Nov-16 21:45:00	36	67	31	1.021	181	37	114	1.000	117	47.65	10450.1	10484.3
10-Nov-16 22:00:00	36	66	31	1.018	190	37	115	1.105	70	47.66	10450.8	10485.0
10-Nov-16 22:15:00	36	67	31	1.022	190	37	113	1.054	72	47.67	10451.5	10485.5
10-Nov-16 22:30:00	36	68	31	1.025	183	37	114	1.114	42	47.68	10452.3	10485.9
10-Nov-16 22:45:00	36	68	31	1.018	183	37	113	0.902	163	47.69	10453.2	10486.4
10-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
10-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=56.31mS@21.7degC,Water Density=1015.5kg/m3@23.5DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-292.5mV2, Salinity=40000ppm.											
10-Nov-16 23:00:00	36	67	31	1.016	182	37	112	1.158	40	47.71	10454.1	10486.9
10-Nov-16 23:15:00	36	67	31	1.023	184	37	112	1.045	87	47.72	10454.9	10487.4
10-Nov-16 23:30:00	36	66	31	1.019	180	37	110	0.970	109	47.73	10455.7	10488.0
10-Nov-16 23:45:00	36	67	31	1.014	192	37	116	1.076	78	47.74	10456.4	10488.6
11-Nov-16 00:00:00	36	66	31	1.028	182	37	112	0.996	98	47.75	10457.4	10489.2
11-Nov-16 00:15:00	36	68	31	1.023	181	37	116	0.968	145	47.76	10458.3	10489.7
11-Nov-16 00:30:00	36	66	31	1.027	180	37	113	1.132	35	47.77	10459.1	10490.3
11-Nov-16 00:45:00	36	67	31	1.023	176	37	110	1.033	77	47.78	10460.1	10490.9
11-Nov-16 00:55:00	DART computer crashed, needed to restart.											
11-Nov-16 01:00:00	36	67	31	1.019	182	37	114	1.028	92	47.79	10461.0	10491.5
11-Nov-16 01:03:00	DART computer restarted, acquisition resumed.											
11-Nov-16 01:15:00	36	67	31	1.018	181	37	111	0.991	103	47.80	10461.7	10491.9
11-Nov-16 01:30:00	36	67	30	1.020	181	37	112	0.950	133	47.81	10462.7	10492.4
11-Nov-16 01:45:00	36	67	30	1.019	176	37	108	1.045	50	47.83	10463.6	10492.8
11-Nov-16 02:00:00	Gas SG=0.642.											
11-Nov-16 02:00:00	36	68	30	1.018	182	37	114	0.978	126	47.84	10464.4	10493.3
11-Nov-16 02:15:00	36	68	30	1.025	179	37	111	1.014	84	47.85	10465.4	10493.8
11-Nov-16 02:30:00	36	67	30	1.022	179	37	111	0.957	119	47.86	10466.4	10494.2
11-Nov-16 02:45:00	36	67	30	1.024	185	37	113	0.998	114	47.87	10467.2	10494.7
11-Nov-16 03:00:00	36	60	30	0.972	167	37	101	0.820	154	47.88	10468.1	10495.1
11-Nov-16 03:15:00	36	73	30	0.996	209	37	127	0.981	219	47.89	10469.5	10495.8
11-Nov-16 03:30:00	36	70	30	1.099	176	37	112	1.024	87	47.90	10470.4	10496.5
11-Nov-16 03:45:00	36	68	30	1.030	183	37	114	0.940	126	47.91	10471.2	10497.2
11-Nov-16 04:00:00	36	68	30	1.037	177	37	110	0.999	111	47.92	10471.9	10497.9
11-Nov-16 04:15:00	36	67	30	1.021	180	37	110	0.955	133	47.93	10472.9	10498.5
11-Nov-16 04:30:00	36	67	30	1.030	180	37	111	0.917	147	47.95	10473.8	10499.0
11-Nov-16 04:45:00	36	67	30	1.021	183	37	113	0.964	118	47.96	10474.6	10499.6
11-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
11-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.75mS@21.2degC,Water Density=1015.7kg/m3@23.2DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-189.1mV2, Salinity=40000ppm.											
11-Nov-16 05:00:00	36	67	30	1.020	182	36	113	1.036	94	47.97	10475.4	10500.2
11-Nov-16 05:15:00	36	67	29	1.012	181	36	114	1.032	86	47.98	10476.2	10500.8
11-Nov-16 05:30:00	36	68	29	1.024								10501.3
11-Nov-16 05:45:00	36	67	29	1.013	178	36	109	1.063	63	48.00	10477.6	10501.9
11-Nov-16 06:00:00	36	69	29	1.028	185	36	113	0.997	120	48.01	10478.5	10502.5
11-Nov-16 06:15:00	36	67	29	1.027	178	36	111	1.078	62	48.02	10479.2	10503.1
11-Nov-16 06:30:00	36	68	29	1.021	184	36	114	1.104	54	48.03	10480.0	10503.6
11-Nov-16 06:45:00	36	67	29	1.023	179	37	113	0.998	88	48.04	10480.8	10504.2
11-Nov-16 07:00:00	36	68	30	1.028	177	38	111	1.063	64	48.05	10481.7	10504.8
11-Nov-16 07:15:00	36	67	31	1.019	180	38	112	1.102	52	48.06	10482.6	10505.4
11-Nov-16 07:30:00	36	67	31	1.025	180	38	112	1.153	29	48.08	10483.5	10505.9
11-Nov-16 07:45:00	36	67	32	1.023	183	39	114	1.114	60	48.09	10484.4	10506.5
11-Nov-16 08:00:00	Gas SG=0.640.											
11-Nov-16 08:00:00	Pumped 56.6 bbls from tank to pond.											
11-Nov-16 08:00:00	36	68	32	1.024	178	40	114	0.963	129	48.10	10485.3	10507.1
11-Nov-16 08:15:00	36	68	33	1.014	178	40	114	1.032	82	48.11	10486.1	10507.7
11-Nov-16 08:30:00	36	69	33	1.033	182	40	113	0.938	134	48.12	10486.9	10508.2
11-Nov-16 08:45:00	36	67	34	1.020	180	41	111	0.973	111	48.13	10488.1	10508.8
11-Nov-16 09:00:00	36	68	34	1.023	182	41	113	0.981	107	48.14	10489.1	10509.4
11-Nov-16 09:15:00	36	68	34	1.023	183	42	114	0.934	143	48.15	10490.1	10510.0
11-Nov-16 09:30:00	36	67	35	1.028	182	42	112	1.044	77	48.16	10491.0	10510.5
11-Nov-16 09:45:00	36	68	35	1.025	176	42	114	1.048	74	48.17	10491.9	10511.1
11-Nov-16 10:00:00	Took ALS sample from Separator. Cumulative=10512bbls, EC=67.14mS@31.2degC, pH=6.3.											
11-Nov-16 10:00:00	36	67	36	1.025	177	43	111	1.052	68	48.18	10492.9	10511.7
11-Nov-16 10:15:00	36	68	36	1.025	176	43	112	0.941	120	48.19	10493.8	10512.3
11-Nov-16 10:30:00	36	68	37	1.025	181	44	114	0.886	149	48.20	10494.9	10512.8
11-Nov-16 10:45:00	36	69	37	1.028	174	44	111	0.843	151	48.21	10495.7	10513.4
11-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=64.8mS@27.8degC,Water Density=1014kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-230.1mV2, Salinity=41000ppm.											
11-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
11-Nov-16 11:00:00	36	69	38	1.028	181	44	115	0.974	118	48.22	10496.7	10514.0
11-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
11-Nov-16 11:15:00	36	68	38	1.027	176	44	111	0.998	89	48.23	10497.6	10514.6
11-Nov-16 11:30:00	36	69	38	1.022	179	45	114	0.989	103	48.25	10498.5	10515.1
11-Nov-16 11:45:00	36	70	38	1.025	179	44	114	1.059	65	48.26	10499.3	10515.7
11-Nov-16 12:00:00	36	69	39	1.024	178	45	113	0.954	122	48.27	10500.2	10516.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
11-Nov-16 12:15:00	36	69	39	1.026	178	45	111	0.979	105	48.28	10501.2	10516.9
11-Nov-16 12:30:00	36	68	39	1.023	176	45	115	1.017	88	48.29	10502.1	10517.4
11-Nov-16 12:45:00	36	69	39	1.020	182	45	117	0.906	165	48.30	10503.0	10518.0
11-Nov-16 13:00:00	36	69	40	1.034	172	46	117	1.010	90	48.31	10503.8	10518.6
11-Nov-16 13:15:00	36	69	40	1.022	183	46	116	1.056	81	48.32	10504.8	10519.2
11-Nov-16 13:30:00	36	70	40	1.036	178	44	115	1.010	85	48.33	10505.6	10519.7
11-Nov-16 13:45:00	36	70	40	1.023	182	45	114	0.991	96	48.34	10506.4	10520.3
11-Nov-16 14:00:00	Took Isotube sample #38, 69.5psia @ 40deg C.											
11-Nov-16 14:00:00	Gas SG=0.640.											
11-Nov-16 14:00:00	36	70	40	1.022	178	44	111	1.026	79	48.35	10507.5	10520.9
11-Nov-16 14:15:00	36	71	40	1.018	180	45	112	0.991	106	48.36	10508.5	10521.5
11-Nov-16 14:30:00	36	69	40	1.018	181	44	110	0.908	134	48.37	10509.6	10522.0
11-Nov-16 14:45:00	36	72	40	1.022	188	44	116	0.963	121	48.38	10510.7	10522.6
11-Nov-16 15:00:00	36	68	39	1.025	182	43	112	1.101	40	48.39	10511.4	10523.2
11-Nov-16 15:15:00	36	70	39	1.018	184	43	117	1.040	87	48.40	10512.4	10523.8
11-Nov-16 15:30:00	36	70	39	1.030	182	42	115	1.015	101	48.41	10513.4	10524.3
11-Nov-16 15:45:00	36	69	39	1.026	181	43	113	1.030	61	48.42	10514.4	10524.9
11-Nov-16 16:00:00	36	70	39	1.026	178	44	112	1.010	78	48.44	10515.4	10525.5
11-Nov-16 16:15:00	36	69	39	1.024	180	44	116	1.005	123	48.45	10516.5	10526.1
11-Nov-16 16:30:00	36	68	39	1.015	176	44	109	0.983	88	48.46	10517.3	10526.6
11-Nov-16 16:45:00	36	70	39	1.003	195	44	120	0.995	135	48.47	10518.3	10527.2
11-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
11-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=66mS@31degC,Water Density=1013.1kg/m3@33DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-150mV2, Salinity=40000ppm.											
11-Nov-16 17:00:00	36	71	39	1.048	173	43	115	1.106	44	48.48	10519.5	10527.8
11-Nov-16 17:15:00	36	71	39	1.020	180	43	114	1.059	57	48.49	10520.2	10528.4
11-Nov-16 17:30:00	36	71	39	1.030	178	42	113	1.021	86	48.50	10521.4	10528.9
11-Nov-16 17:45:00	36	69	39	1.022	184	41	112	1.122	30	48.51	10522.3	10529.5
11-Nov-16 18:00:00	36	70	38	1.020	180	41	113	0.984	96	48.52	10523.2	10530.1
11-Nov-16 18:15:00	36	70	38	1.019	181	40	112	0.994	97	48.53	10524.1	10530.7
11-Nov-16 18:30:00	36	70	37	1.021	179	40	111	1.087	51	48.54	10525.1	10531.2
11-Nov-16 18:45:00	36	70	37	1.012	181	40	112	1.028	72	48.55	10525.9	10531.8
11-Nov-16 19:00:00	36	70	36	1.025	179	40	111	1.076	50	48.56	10526.7	10532.4
11-Nov-16 19:15:00	36	70	36	1.022	181	39	113	0.989	129	48.57	10527.6	10533.0
11-Nov-16 19:30:00	36	70	35	1.021	178	39	113	0.975	104	48.58	10528.5	10533.5
11-Nov-16 19:45:00	36	69	35	1.022	178	39	113	1.006	85	48.59	10529.2	10534.1
11-Nov-16 20:00:00	Gas SG=0.640.											
11-Nov-16 20:00:00	36	68	34	1.018	181	39	113	1.160	32	48.60	10530.0	10534.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
11-Nov-16 20:15:00	36	68	34	1.017	183	38	111	1.107	56	48.62	10530.9	10535.3
11-Nov-16 20:30:00	36	69	33	1.018	178	38	111	1.152	24	48.63	10531.8	10535.8
11-Nov-16 20:45:00	36	69	33	1.017	183	38	111	1.006	99	48.64	10532.7	10536.4
11-Nov-16 21:00:00	36	68	33	1.015	178	38	117	1.008	122	48.65	10533.6	10537.0
11-Nov-16 21:15:00	36	68	32	1.015	182	38	111	1.000	101	48.66	10534.8	9482.7
11-Nov-16 21:30:00	36	68	32	1.022	180	38	113	1.105	46	48.67	10535.7	8428.4
11-Nov-16 21:45:00	36	68	32	1.016	185	38	115	1.080	34	48.68	10536.2	7374.0
11-Nov-16 22:00:00	36	68	32	1.018	188	38	115	1.002	117	48.69	10537.3	6319.7
11-Nov-16 22:15:00	36	68	32	1.018	184	38	113	1.197	23	48.70	10538.1	7375.3
11-Nov-16 22:30:00	36	69	32	1.026	185	38	114	0.986	129	48.71	10538.9	8430.9
11-Nov-16 22:45:00	36	68	32	1.020	182	38	113	1.052	83	48.72	10539.7	9486.5
11-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
11-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.06mS@22.4degC,Water Density=1015.4kg/m3@24.3DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-127.7mV2, Salinity=40000ppm.											
11-Nov-16 23:00:00	36	69	31	1.021	186	37	113	1.032	80	48.74	10540.5	10542.0
11-Nov-16 23:15:00	36	68	31	1.021	182	37	115	1.042	92	48.75	10541.4	10542.6
11-Nov-16 23:30:00	36	68	31	1.018	184	37	113	1.116	50	48.76	10542.2	10543.2
11-Nov-16 23:45:00	36	68	31	1.017	181	37	112	0.999	102	48.77	10543.3	10543.8
12-Nov-16 00:00:00	36	68	31	1.016	186	37	114	0.985	118	48.78	10544.3	10544.4
12-Nov-16 00:15:00	36	67	31	1.016	183	37	111	1.122	60	48.79	10545.0	10544.9
12-Nov-16 00:30:00	36	68	31	1.014	183	37	113	1.106	56	48.80	10545.8	10545.5
12-Nov-16 00:45:00	36	68	31	1.018	184	37	111	0.996	109	48.81	10546.5	10546.1
12-Nov-16 01:00:00	36	68	31	1.016	182	37	114	0.942	142	48.82	10547.3	10546.7
12-Nov-16 01:15:00	36	68	31	1.014	181	37	113	1.203	4	48.83	10548.2	10547.2
12-Nov-16 01:30:00	36	69	31	1.021	184	37	116	1.008	118	48.85	10549.2	10547.8
12-Nov-16 01:45:00	36	68	31	1.018	178	37	112	0.981	115	48.86	10550.1	10548.4
12-Nov-16 02:00:00	Gas SG=0.642											
12-Nov-16 02:00:00	36	68	31	1.013	185	37	112	1.002	101	48.87	10551.3	10549.0
12-Nov-16 02:15:00	36	69	31	1.022	180	37	110	1.121	37	48.88	10552.2	10549.5
12-Nov-16 02:30:00	36	68	31	1.019	181	37	111	1.174	22	48.89	10553.1	10550.1
12-Nov-16 02:45:00	36	67	31	1.019	178	37	111	0.989	102	48.90	10553.9	10550.7
12-Nov-16 03:00:00	36	68	31	1.014	186	37	114	1.026	99	48.91	10554.9	10551.3
12-Nov-16 03:15:00	36	67	31	1.010	177	37	110	1.027	90	48.92	10555.6	10551.8
12-Nov-16 03:30:00	36	69	31	1.021	186	37	114	1.130	43	48.93	10556.3	10552.4
12-Nov-16 03:45:00	36	67	31	1.025	177	37	108	0.947	120	48.94	10557.3	10553.0
12-Nov-16 04:00:00	36	68	30	1.013	191	37	115	1.165	60	48.95	10558.2	10553.5
12-Nov-16 04:15:00	36	67	30	1.031	179	37	111	0.904	154	48.96	10559.2	10554.1
12-Nov-16 04:30:00	36	68	30	1.016	185	37	111	0.978	123	48.98	10560.1	10554.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
12-Nov-16 04:45:00	36	68	30	1.027	176	37	112	0.946	126	48.99	10561.1	10555.3
12-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.644.											
12-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.58mS@22degC,Water Density=1015.1kg/m3@24DegC, Dissolved Oxygen=0.3%, Oxidation Reduction Potential=-153.1mV2, Salinity=39000ppm.											
12-Nov-16 05:00:00	36	64	30	0.990	172	37	107	1.069	33	49.00	10561.8	10555.9
12-Nov-16 05:15:00	36	71	30	1.002	201	37	124	1.148	93	49.01	10562.7	10556.4
12-Nov-16 05:30:00	36	69	30	1.065								10557.0
12-Nov-16 05:45:00	36	69	30	1.016	185	37	113	1.030	91	49.03	10563.9	10557.6
12-Nov-16 06:00:00	36	68	30	1.029	182	37	112	0.914	158	49.04	10564.9	10558.2
12-Nov-16 06:15:00	36	68	30	1.021	182	37	114	1.138	44	49.05	10565.7	10558.7
12-Nov-16 06:30:00	36	68	30	1.025	180	37	109	1.099	49	49.06	10566.4	10559.3
12-Nov-16 06:45:00	36	68	30	1.018	183	38	112	1.071	73	49.07	10567.3	10559.9
12-Nov-16 07:00:00	36	68	31	1.020	181	38	112	1.099	53	49.08	10568.1	10560.5
12-Nov-16 07:15:00	36	68	31	1.023	183	39	113	1.091	57	49.09	10569.1	10561.0
12-Nov-16 07:30:00	36	67	32	1.022	180	39	111	1.123	48	49.11	10570.0	10561.6
12-Nov-16 07:45:00	36	68	32	1.013	182	40	112	1.011	100	49.12	10570.7	10562.2
12-Nov-16 08:00:00	Gas SG=0.638. Pumped 55.7 bbls from tank to pond.											
12-Nov-16 08:00:00	36	68	33	1.018	182	40	113	1.136	24	49.13	10571.8	10562.8
12-Nov-16 08:15:00	36	69	33	1.027	183	40	113	1.046	83	49.14	10572.8	10563.3
12-Nov-16 08:30:00	36	67	33	1.030	178	40	111	1.017	85	49.15	10573.8	10563.9
12-Nov-16 08:45:00	36	68	34	1.022	183	41	113	0.930	148	49.16	10575.2	10564.5
12-Nov-16 09:00:00	36	67	34	1.033	183	41	111	0.982	115	49.17	10576.3	10565.0
12-Nov-16 09:15:00	36	68	35	1.025	185	42	117	1.046	92	49.18	10577.3	10565.6
12-Nov-16 09:30:00	36	68	35	1.028	180	42	112	0.987	109	49.19	10578.1	10566.2
12-Nov-16 09:45:00	36	68	35	1.021	184	42	114	1.072	62	49.20	10579.1	10566.8
12-Nov-16 10:00:00	36	69	36	1.033	174	43	114	1.077	51	49.21	10580.0	10567.4
12-Nov-16 10:15:00	36	69	36	1.019	176	43	113	0.985	85	49.22	10580.8	10567.9
12-Nov-16 10:30:00	36	69	37	1.025	176	43	110	1.123	43	49.23	10581.8	10568.5
12-Nov-16 10:45:00	36	69	37	1.025	177	44	113	1.056	62	49.24	10582.8	10569.1
12-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
12-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=65.03mS@29.3degC,Water Density=1013.3kg/m3@31DegC, Dissolved Oxygen=0.2%, Oxidation Reduction Potential=-192.7mV2, Salinity=40000ppm.											
12-Nov-16 11:00:00	36	69	37	1.023	175	44	111	1.049	60	49.25	10583.7	10569.7
12-Nov-16 11:10:00	Flushed VX liquid port, found trace of sand and scales.											
12-Nov-16 11:15:00	36	68	38	1.019	181	44	114	1.011	97	49.26	10584.9	10570.2
12-Nov-16 11:30:00	36	70	38	1.028	182	44	115	1.073	73	49.27	10585.9	10570.8
12-Nov-16 11:45:00	36	69	38	1.024	177	44	114	0.987	102	49.28	10586.9	10571.4
12-Nov-16 12:00:00	36	69	38	1.026	178	43	113	1.063	67	49.29	10587.7	10572.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
12-Nov-16 12:15:00	36	69	38	1.020	176	45	113	0.888	157	49.30	10588.8	10572.5
12-Nov-16 12:30:00	36	69	39	1.030	172	44	111	1.096	42	49.31	10589.8	10573.1
12-Nov-16 12:45:00	36	69	39	1.020	176	44	113	0.969	118	49.33	10590.8	10573.7
12-Nov-16 13:00:00	36	69	39	1.022	173	44	112	0.876	160	49.34	10592.0	10574.3
12-Nov-16 13:15:00	36	69	39	1.018	182	44	113	1.007	110	49.35	10592.8	10574.8
12-Nov-16 13:30:00	36	68	39	1.027	180	45	114	1.034	83	49.36	10593.6	10575.4
12-Nov-16 13:45:00	36	69	40	1.021	182	45	113	0.910	140	49.37	10594.6	10576.0
12-Nov-16 14:00:00	Gas SG=0.640.											
12-Nov-16 14:00:00	36	71	40	1.029	181	44	113	0.986	118	49.38	10595.6	10576.5
12-Nov-16 14:15:00	36	70	40	1.027	178	45	116	1.073	61	49.39	10596.6	10577.1
12-Nov-16 14:30:00	36	70	40	1.024	181	46	116	0.907	171	49.40	10597.6	10577.7
12-Nov-16 14:45:00	36	70	41	1.027	177	46	114	0.933	134	49.41	10598.7	10578.3
12-Nov-16 15:00:00	36	70	41	1.019	178	45	112	0.963	105	49.42	10599.7	10578.9
12-Nov-16 15:15:00	36	70	40	1.025	179	45	112	1.023	90	49.43	10600.5	10579.4
12-Nov-16 15:30:00	36	70	40	1.017	184	43	113	0.947	116	49.44	10601.4	10580.0
12-Nov-16 15:45:00	36	71	39	1.023	182	42	112	1.021	68	49.45	10602.0	10580.6
12-Nov-16 16:00:00	36	70	39	1.024	176	43	110	1.001	78	49.46	10602.8	10581.2
12-Nov-16 16:15:00	36	70	39	1.020	180	43	113	0.952	125	49.47	10603.7	10581.7
12-Nov-16 16:30:00	36	70	38	1.026	178	42	111	1.016	89	49.48	10604.4	10582.3
12-Nov-16 16:45:00	36	70	38	1.016	179	40	110	1.111	37	49.49	10605.2	10582.9
12-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=3.5%, Gas SG=0.638.											
12-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=60.54mS@26.1degC,Water Density=1014.5kg/m3@28.2DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-201.2mV2, Salinity=40000ppm.											
12-Nov-16 17:00:00	36	70	36	1.023	183	38	114	0.965	134	49.51	10606.1	10583.5
12-Nov-16 17:15:00	36	70	36	1.025	180	39	112	1.045	82	49.51	10607.1	10584.0
12-Nov-16 17:30:00	36	69	36	1.017	179	40	111	0.941	121	49.52	10608.0	10584.6
12-Nov-16 17:45:00	36	70	36	1.020	177	40	110	0.912	148	49.54	10609.0	10585.2
12-Nov-16 18:00:00	36	70	35	1.019	181	40	113	1.083	58	49.55	10609.9	10585.8
12-Nov-16 18:15:00	36	70	35	1.020	179	39	113	1.100	47	49.56	10610.6	10586.3
12-Nov-16 18:30:00	36	69	35	1.018	181	39	113	1.000	95	49.57	10611.5	10586.9
12-Nov-16 18:45:00	36	70	34	1.018	181	39	111	1.066	77	49.58	10612.4	10587.5
12-Nov-16 19:00:00	36	69	34	1.022	179	38	112	0.937	146	49.59	10613.4	10588.1
12-Nov-16 19:15:00	36	69	34	1.018	181	38	111	1.054	78	49.60	10614.4	10588.6
12-Nov-16 19:30:00	36	70	33	1.020	179	38	111	1.108	42	49.61	10615.3	10589.2
12-Nov-16 19:45:00	36	70	33	1.022	182	38	113	0.953	118	49.62	10615.9	10589.8
12-Nov-16 20:00:00	Gas SG=0.640.											
12-Nov-16 20:00:00	36	68	33	1.023	181	38	113	0.976	119	49.63	10616.8	10590.4
12-Nov-16 20:15:00	36	68	33	1.015	177	38	110	1.113	34	49.64	10617.6	10590.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
12-Nov-16 20:30:00	36	70	33	1.029	179	38	111	1.045	76	49.66	10618.4	10591.5
12-Nov-16 20:45:00	36	68	33	1.020	181	38	114	1.019	98	49.67	10619.2	10592.1
12-Nov-16 21:00:00	36	69	32	1.022	183	38	113	1.124	42	49.68	10620.1	10592.7
12-Nov-16 21:15:00	36	69	32	1.020	184	38	114	0.983	126	49.69	10621.2	10593.2
12-Nov-16 21:30:00	36	69	32	1.022	178	38	110	1.038	63	49.70	10622.1	10593.8
12-Nov-16 21:45:00	36	69	32	1.020	179	38	112	1.025	94	49.71	10622.9	10594.4
12-Nov-16 22:00:00	36	68	32	1.020	188	38	114	1.093	83	49.72	10623.8	10595.0
12-Nov-16 22:15:00	36	69	32	1.020	182	38	113	1.128	30	49.73	10624.5	10595.5
12-Nov-16 22:30:00	36	69	32	1.022	181	38	113	1.002	108	49.74	10625.5	10596.1
12-Nov-16 22:45:00	36	68	32	1.022	182	38	111	1.134	34	49.75	10626.5	10596.7
12-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
12-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.45mS@23.7degC,Water Density=1014.4kg/m3@25.5DegC, Dissolved Oxygen=1.0%, Oxidation Reduction Potential=-213.5mV2, Salinity=39000ppm.											
12-Nov-16 23:00:00	36	68	32	1.022	182	38	110	1.034	84	49.76	10627.3	10597.3
12-Nov-16 23:15:00	36	68	32	1.021	181	38	113	0.921	140	49.77	10628.3	10597.8
12-Nov-16 23:30:00	36	68	31	1.020	180	37	112	1.147	34	49.78	10629.1	10598.4
12-Nov-16 23:45:00	36	69	31	1.018	183	37	112	1.138	31	49.80	10629.9	10599.0
13-Nov-16 00:00:00	36	69	31	1.020	183	37	110	1.165	24	49.81	10630.6	10599.5
13-Nov-16 00:15:00	36	69	31	1.020	181	38	110	0.976	94	49.82	10631.2	10600.1
13-Nov-16 00:30:00	36	69	31	1.026	178	38	110	1.053	70	49.83	10632.1	10600.7
13-Nov-16 00:45:00	36	69	31	1.015	182	38	112	0.884	167	49.84	10632.8	10601.3
13-Nov-16 01:00:00	36	69	31	1.023	182	37	113	0.962	146	49.85	10633.7	10601.9
13-Nov-16 01:15:00	36	68	31	1.021	185	37	112	1.071	75	49.86	10634.7	10602.4
13-Nov-16 01:30:00	36	68	31	1.015	185	37	112	1.076	74	49.87	10635.6	10603.0
13-Nov-16 01:45:00	36	69	31	1.022	181	37	112	1.036	84	49.88	10636.4	10603.6
13-Nov-16 02:00:00	Gas SG=0.642.											
13-Nov-16 02:00:00	36	69	31	1.021	179	37	112	1.094	57	49.89	10637.4	10604.2
13-Nov-16 02:15:00	36	69	31	1.017	185	37	112	1.052	88	49.91	10638.2	10604.6
13-Nov-16 02:30:00	36	69	31	1.027	176	37	107	0.930	124	49.92	10639.0	10605.1
13-Nov-16 02:45:00	36	69	31	1.015	184	37	112	0.923	131	49.93	10639.8	10605.5
13-Nov-16 03:00:00	36	68	31	1.024	180	37	114	1.033	96	49.94	10640.7	10606.0
13-Nov-16 03:15:00	36	67	31	1.017	179	37	108	0.980	103	49.95	10641.6	10606.4
13-Nov-16 03:30:00	36	69	31	1.023	180	37	117	1.095	65	49.96	10642.3	10606.9
13-Nov-16 03:45:00	36	68	30	1.025	181	37	111	1.097	67	49.97	10643.3	10607.4
13-Nov-16 04:00:00	36	68	30	1.017	181	37	113	1.064	74	49.98	10644.1	10607.8
13-Nov-16 04:15:00	36	69	30	1.018	183	37	111	1.091	43	49.99	10644.8	10608.4
13-Nov-16 04:30:00	36	68	30	1.020	181	37	112	1.106	52	50.00	10645.9	10609.0
13-Nov-16 04:45:00	36	69	30	1.016	183	37	112	0.953	118	50.01	10646.7	10609.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
13-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
13-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.88mS@20.9degC,Water Density=1016.1kg/m3@22.9DegC, Dissolved Oxygen=0.6%, Oxidation Reduction Potential=-197.6mV2, Salinity=40000ppm.											
13-Nov-16 05:00:00	36	69	30	1.019	180	37	110	1.028	86	50.02	10647.4	10610.1
13-Nov-16 05:15:00	36	68	30	1.015	180	37	110	1.006	100	50.04	10648.1	10610.7
13-Nov-16 05:30:00	36	68	30	1.018								10611.3
13-Nov-16 05:45:00	36	69	30	1.015	186	37	113	1.063	72	50.06	10650.0	10611.9
13-Nov-16 06:00:00	36	69	30	1.026	180	36	112	1.141	40	50.07	10650.8	10612.4
13-Nov-16 06:15:00	36	69	30	1.017	183	36	114	1.040	113	50.08	10651.6	10613.0
13-Nov-16 06:30:00	36	69	30	1.018	181	36	110	1.132	33	50.09	10652.4	10613.6
13-Nov-16 06:45:00	36	69	30	1.019	180	36	112	0.979	118	50.10	10653.1	10614.2
13-Nov-16 07:00:00	36	68	30	1.017	180	36	113	1.118	56	50.11	10654.1	10614.7
13-Nov-16 07:15:00	36	69	30	1.016	181	37	111	1.047	83	50.12	10654.9	10615.3
13-Nov-16 07:30:00	36	69	30	1.018	187	37	114	1.119	65	50.13	10655.7	10615.9
13-Nov-16 07:45:00	36	69	31	1.023	184	38	113	1.096	69	50.14	10656.5	10616.5
13-Nov-16 08:00:00	Gas SG=0.638.											
13-Nov-16 08:00:00	36	69	31	1.025	185	38	113	1.117	40	50.15	10657.4	10617.0
13-Nov-16 08:15:00	36	69	31	1.025	181	39	113	1.173	25	50.16	10658.2	10617.6
13-Nov-16 08:30:00	36	69	32	1.030	178	39	110	1.022	76	50.18	10659.0	10618.2
13-Nov-16 08:45:00	36	68	32	1.022	181	39	111	0.929	132	50.19	10659.8	10618.8
13-Nov-16 09:00:00	36	69	32	1.025	183	40	111	1.032	58	50.20	10660.5	10619.3
13-Nov-16 09:15:00	36	69	33	1.023	183	40	114	1.061	71	50.21	10661.4	10619.9
13-Nov-16 09:30:00	36	68	33	1.022	184	41	111	0.960	124	50.22	10662.2	10620.5
13-Nov-16 09:45:00	36	70	34	1.022	178	41	111	1.048	70	50.23	10663.0	10621.1
13-Nov-16 10:00:00	Pumped 58.9 bbls from tank to pond.											
13-Nov-16 10:00:00	36	70	34	1.030	179	42	113	0.975	98	50.24	10664.0	10621.6
13-Nov-16 10:15:00	36	69	35	1.017	179	42	116	1.024	94	50.25	10665.0	10622.2
13-Nov-16 10:30:00	36	71	35	1.033	183	42	115	1.040	90	50.26	10666.0	10622.8
13-Nov-16 10:45:00	36	70	35	1.028	177	43	112	1.013	85	50.27	10666.7	10623.4
13-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.											
13-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=64.23mS@28.4degC,Water Density=1013.7kg/m3@29.7DegC, Dissolved Oxygen=0.4%, Oxidation Reduction Potential=-188.2mV2, Salinity=40000ppm.											
13-Nov-16 11:00:00	36	69	36	1.020	173	43	108	0.994	70	50.28	10667.7	10623.9
13-Nov-16 11:10:00	Flushed VX liquid port, observed no sand.											
13-Nov-16 11:15:00	36	71	36	1.034	176	43	110	1.050	59	50.29	10668.5	10624.4
13-Nov-16 11:30:00	36	69	36	1.026	179	43	112	0.906	154	50.30	10669.3	10624.9
13-Nov-16 11:45:00	36	70	37	1.028	179	44	114	0.900	154	50.32	10670.2	10625.3
13-Nov-16 12:00:00	36	70	37	1.027	176	44	112	1.129	26	50.33	10670.9	10625.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
13-Nov-16 12:15:00	36	70	37	1.022	178	44	114	1.018	89	50.34	10671.6	10626.2
13-Nov-16 12:30:00	36	70	38	1.027	181	44	113	0.977	107	50.35	10672.5	10626.7
13-Nov-16 12:45:00	36	70	38	1.026	175	44	110	0.967	108	50.36	10673.4	10627.2
13-Nov-16 13:00:00	36	70	38	1.028	175	44	112	0.942	123	50.37	10674.4	10627.6
13-Nov-16 13:15:00	36	70	38	1.026	176	44	114	1.023	87	50.38	10675.5	10628.2
13-Nov-16 13:30:00	36	70	39	1.026	177	45	114	1.031	67	50.39	10676.4	10628.8
13-Nov-16 13:45:00	36	71	39	1.030	180	45	114	0.902	133	50.40	10677.2	10629.3
13-Nov-16 14:00:00	Gas SG=0.642.											
13-Nov-16 14:00:00	36	71	39	1.027	177	45	113	1.016	82	50.41	10678.1	10629.9
13-Nov-16 14:15:00	36	71	39	1.019	181	45	116	1.008	102	50.42	10679.0	10630.5
13-Nov-16 14:30:00	36	71	39	1.020	182	44	110	1.226	0	50.43	10679.8	10631.1
13-Nov-16 14:45:00	36	71	39	1.019	182	44	114	0.954	124	50.44	10680.7	10631.6
13-Nov-16 15:00:00	36	71	39	1.019	184	44	116	0.952	138	50.45	10681.6	10632.2
13-Nov-16 15:15:00	36	71	39	1.024	181	44	112	0.984	89	50.46	10682.6	10632.8
13-Nov-16 15:30:00	36	71	39	1.022	183	44	113	1.033	103	50.47	10683.5	10633.4
13-Nov-16 15:45:00	36	70	39	1.021	184	44	114	1.023	96	50.48	10684.5	10633.9
13-Nov-16 16:00:00	36	71	39	1.022	179	44	111	1.014	88	50.49	10685.4	10634.5
13-Nov-16 16:15:00	36	71	39	1.025	175	43	110	1.031	55	50.51	10686.1	10635.1
13-Nov-16 16:30:00	36	71	39	1.015	179	43	112	0.965	105	50.52	10686.8	10635.7
13-Nov-16 16:45:00	36	71	38	1.025	179	43	114	0.943	125	50.53	10687.8	10636.2
13-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=3.5%, Gas SG=0.638.											
13-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=62.17mS@26.8degC,Water Density=1014.5kg/m3@28.6DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-190mV2, Salinity=40000ppm.											
13-Nov-16 17:00:00	36	66	38	1.005	171	42	106	0.928	101	50.54	10688.7	10636.8
13-Nov-16 17:15:00	36	70	38	0.969	197	41	121	1.089	104	50.55	10689.8	10637.4
13-Nov-16 17:30:00	36	73	38	1.060	189	41	118	1.127	64	50.56	10690.7	10638.0
13-Nov-16 17:45:00	36	69	36	1.048	177	39	108	1.008	75	50.57	10691.6	10638.5
13-Nov-16 18:00:00	36	70	35	1.028	177	37	109	1.042	81	50.58	10692.5	10639.1
13-Nov-16 18:15:00	36	71	34	1.025	180	37	111	1.059	52	50.59	10693.1	10639.7
13-Nov-16 18:30:00	36	71	33	1.032	182	37	113	1.032	86	50.60	10693.9	10640.3
13-Nov-16 18:45:00	36	71	32	1.026	181	37	116	1.035	91	50.61	10694.6	10640.8
13-Nov-16 19:00:00	36	70	32	1.027	182	37	114	1.126	52	50.62	10695.5	10641.4
13-Nov-16 19:15:00	36	70	32	1.023	182	37	113	1.040	91	50.63	10696.3	10642.0
13-Nov-16 19:30:00	36	69	31	1.023	179	37	109	1.061	67	50.65	10697.2	10642.6
13-Nov-16 19:45:00	36	70	31	1.024	179	37	114	1.095	63	50.66	10698.0	10643.1
13-Nov-16 20:00:00	Gas SG=0.640.											
13-Nov-16 20:00:00	36	69	31	1.021	184	37	113	1.018	95	50.67	10698.9	10643.7
13-Nov-16 20:15:00	36	69	31	1.023	180	36	110	1.017	99	50.68	10699.7	10644.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
13-Nov-16 20:30:00	36	69	30	1.016	185	36	114	1.184	13	50.69	10700.7	10644.9
13-Nov-16 20:45:00	36	70	30	1.023	180	36	109	0.996	106	50.70	10701.6	10645.4
13-Nov-16 21:00:00	36	69	30	1.019	183	35	111	1.096	58	50.71	10702.5	10646.0
13-Nov-16 21:15:00	36	70	29	1.021	183	35	112	1.222	17	50.72	10703.3	10646.6
13-Nov-16 21:30:00	36	69	29	1.022	181	35	111	1.191	17	50.73	10704.1	10647.2
13-Nov-16 21:45:00	36	69	29	1.017	179	35	109	1.021	65	50.74	10704.5	10647.7
13-Nov-16 22:00:00	36	69	29	1.021	177	35	114	1.038	59	50.75	10705.3	10648.3
13-Nov-16 22:15:00	36	69	29	1.018	181	36	110	0.943	127	50.77	10706.3	10648.9
13-Nov-16 22:30:00	36	70	29	1.024	184	36	112	0.993	96	50.78	10707.0	10649.5
13-Nov-16 22:45:00	36	68	29	1.025	181	36	111	0.964	105	50.79	10708.0	10650.0
13-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
13-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.71mS@20.8degC,Water Density=1015.8kg/m3@22.8DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-217.3mV2, Salinity=40000ppm.											
13-Nov-16 23:00:00	36	68	29	1.020	180	36	113	0.942	135	50.80	10708.8	10650.6
13-Nov-16 23:15:00	36	69	29	1.020	179	37	112	1.029	69	50.81	10709.8	10651.2
13-Nov-16 23:30:00	36	69	29	1.018	182	37	110	0.987	109	50.82	10710.7	10651.8
13-Nov-16 23:45:00	36	68	29	1.019	179	37	112	1.035	82	50.83	10711.3	10652.3
14-Nov-16 00:00:00	36	69	29	1.019	181	36	110	1.067	44	50.84	10712.1	10652.9
14-Nov-16 00:15:00	36	68	29	1.021	179	36	113	1.087	63	50.85	10712.9	10653.5
14-Nov-16 00:30:00	36	68	29	1.018	180	36	110	0.987	116	50.86	10713.8	10654.1
14-Nov-16 00:45:00	36	69	29	1.022	181	36	113	0.975	100	50.87	10714.6	10654.6
14-Nov-16 01:00:00	36	69	29	1.020	179	36	113	1.062	79	50.89	10715.3	10655.2
14-Nov-16 01:15:00	36	69	29	1.020	181	36	111	1.027	72	50.90	10716.1	10655.8
14-Nov-16 01:30:00	36	69	29	1.019	178	34	108	1.049	66	50.91	10717.2	10656.4
14-Nov-16 01:45:00	36	69	28	1.019	182	32	110	1.152	30	50.92	10718.1	10656.9
14-Nov-16 02:00:00	Gas SG=0.642.											
14-Nov-16 02:00:00	36	68	27	1.019	181	33	113	1.102	65	50.93	10719.0	10657.5
14-Nov-16 02:15:00	36	69	27	1.016	181	34	110	1.126	38	50.94	10719.7	10658.0
14-Nov-16 02:30:00	36	69	27	1.022	180	35	110	0.939	124	50.95	10720.3	10658.4
14-Nov-16 02:45:00	36	68	27	1.022	181	35	110	1.058	72	50.96	10721.3	10658.9
14-Nov-16 03:00:00	36	69	27	1.020	180	35	111	1.104	51	50.97	10722.0	10659.4
14-Nov-16 03:15:00	36	68	27	1.017	183	35	111	1.069	68	50.98	10722.9	10659.8
14-Nov-16 03:30:00	36	69	28	1.020	185	36	112	1.027	102	50.99	10723.7	10660.3
14-Nov-16 03:45:00	36	68	28	1.022	182	36	110	1.249	0	51.01	10724.4	10660.7
14-Nov-16 04:00:00	36	69	28	1.020	181	36	109	0.917	140	51.02	10725.2	10661.2
14-Nov-16 04:15:00	36	69	28	1.020	181	36	112	1.186	20	51.03	10725.9	10661.7
14-Nov-16 04:30:00	36	69	28	1.022	183	36	111	1.055	88	51.04	10726.6	10662.1
14-Nov-16 04:45:00	36	68	28	1.022	182	36	110	1.030	93	51.05	10727.5	10662.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
14-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
14-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=53.94mS@20.8degC,Water Density=1015.4kg/m3@22.8DegC, Dissolved Oxygen=2.5%, Oxidation Reduction Potential=-215.6mV2, Salinity=39000ppm.											
14-Nov-16 05:00:00	36	69	28	1.021	181	36	110	1.090	44	51.06	10728.2	10663.0
14-Nov-16 05:15:00	36	69	28	1.016	180	36	110	1.019	55	51.07	10728.5	10663.6
14-Nov-16 05:30:00	36	70	29	1.022								10664.2
14-Nov-16 05:45:00	36	69	29	1.021	182	36	109	1.058	66	51.09	10730.1	10664.8
14-Nov-16 06:00:00	36	69	29	1.016	181	36	110	1.120	43	51.10	10730.8	10665.3
14-Nov-16 06:15:00	36	70	29	1.023	179	36	111	1.067	71	51.11	10731.7	10665.9
14-Nov-16 06:30:00	36	70	29	1.025	179	37	108	1.010	95	51.13	10732.6	10666.5
14-Nov-16 06:45:00	36	69	29	1.021	181	37	111	1.108	52	51.14	10733.3	10667.1
14-Nov-16 07:00:00	36	69	29	1.022	179	37	110	1.171	15	51.15	10734.1	10667.6
14-Nov-16 07:15:00	36	69	29	1.018	178	37	109	1.057	66	51.16	10734.9	10668.2
14-Nov-16 07:30:00	36	69	29	1.022	175	37	111	1.083	53	51.17	10735.7	10668.8
14-Nov-16 07:45:00	36	69	29	1.016	176	37	110	1.055	50	51.18	10736.3	10669.4
14-Nov-16 08:00:00	Gas SG=0.638.											
14-Nov-16 08:00:00	36	69	30	1.019	175	37	113	1.036	77	51.19	10737.3	10669.9
14-Nov-16 08:15:00	36	69	30	1.020	179	37	111	1.028	63	51.20	10737.9	10670.5
14-Nov-16 08:30:00	36	69	30	1.020	178	37	110	0.960	105	51.21	10738.8	10671.1
14-Nov-16 08:45:00	36	69	30	1.020	181	38	112	1.045	85	51.22	10739.7	10671.7
14-Nov-16 09:00:00	36	70	30	1.030	177	38	110	1.136	24	51.23	10740.4	10672.2
14-Nov-16 09:15:00	36	69	31	1.022	181	38	111	0.999	111	51.24	10741.2	10672.8
14-Nov-16 09:30:00	36	70	31	1.021	179	38	109	1.044	68	51.25	10742.3	10673.4
14-Nov-16 09:45:00	36	68	31	1.022	176	38	108	0.939	117	51.27	10743.2	10674.0
14-Nov-16 10:00:00	36	67	32	1.010	189	41	116	0.978	134	51.28	10744.2	10674.5
14-Nov-16 10:15:00	36	71	33	1.048	169	41	109	0.924	124	51.29	10745.1	10675.1
14-Nov-16 10:30:00	36	69	33	1.019	172	41	108	0.943	109	51.30	10746.0	10675.7
14-Nov-16 10:45:00	36	71	34	1.023	177	42	112	0.962	120	51.31	10746.7	10676.3
14-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.											
14-Nov-16 11:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=59.95mS@25.1degC,Water Density=1014.3kg/m3@26.3DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-229.4mV2, Salinity=40000ppm.											
14-Nov-16 11:00:00	36	70	34	1.030	178	42	117	0.973	96	51.32	10747.5	10676.8
14-Nov-16 11:10:00	Flushed VX liquid port, observed no sand.											
14-Nov-16 11:15:00	36	71	35	1.027	178	41	112	1.181	25	51.33	10748.3	10677.4
14-Nov-16 11:30:00	36	71	35	1.024	175	41	116	0.960	108	51.34	10749.1	10678.0
14-Nov-16 11:45:00	36	70	35	1.020	178	42	111	0.882	114	51.35	10750.1	10678.6
14-Nov-16 12:00:00	36	71	35	1.031	175	42	109	0.991	76	51.36	10751.1	10679.1
14-Nov-16 12:15:00	36	71	35	1.028	176	42	112	0.990	87	51.37	10751.9	10679.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
14-Nov-16 12:30:00	36	71	36	1.028	176	43	109	0.891	154	51.38	10752.8	10680.3
14-Nov-16 12:45:00	36	71	36	1.028	176	42	110	1.051	65	51.39	10753.8	10680.9
14-Nov-16 13:00:00	Pumped 60.7 bbls from tank to pond.											
14-Nov-16 13:00:00	36	70	36	1.022	180	42	111	0.954	129	51.40	10754.8	10681.4
14-Nov-16 13:15:00	36	70	36	1.017	175	43	111	1.068	53	51.41	10755.7	10682.0
14-Nov-16 13:30:00	36	73	37	1.027	182	43	114	1.076	56	51.42	10756.5	10682.6
14-Nov-16 13:45:00	36	71	37	1.026	175	43	109	0.908	129	51.43	10757.3	10683.2
14-Nov-16 14:00:00	Gas SG=0.638.											
14-Nov-16 14:00:00	36	72	37	1.022	185	43	116	1.157	37	51.45	10758.2	10683.7
14-Nov-16 14:15:00	36	71	37	1.032	177	44	110	1.052	44	51.46	10758.9	10684.3
14-Nov-16 14:30:00	36	72	38	1.023	180	43	113	1.064	72	51.47	10759.9	10684.9
14-Nov-16 14:45:00	36	71	38	1.025	176	43	111	1.044	65	51.48	10760.5	10685.5
14-Nov-16 15:00:00	36	72	37	1.024	179	42	110	1.035	71	51.49	10761.4	10686.0
14-Nov-16 15:15:00	36	71	37	1.027	177	42	111	0.845	178	51.50	10762.3	10686.6
14-Nov-16 15:30:00	36	71	37	1.021	176	42	110	1.165	8	51.51	10763.2	10687.2
14-Nov-16 15:45:00	36	71	37	1.021	178	43	113	0.917	137	51.52	10764.5	10687.8
14-Nov-16 16:00:00	36	70	37	1.024	179	42	112	1.055	69	51.53	10765.2	10688.3
14-Nov-16 16:15:00	36	70	37	1.016	179	41	111	0.987	86	51.54	10766.0	10688.9
14-Nov-16 16:30:00	36	70	37	1.024	184	42	112	0.978	118	51.55	10767.0	10689.5
14-Nov-16 16:45:00	36	69	36	1.022	177	41	113	1.005	90	51.56	10768.0	10690.1
14-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.638.											
14-Nov-16 17:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=61.48mS@26degC,Water Density=1014.7kg/m3@27.3DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-184.5mV2, Salinity=40000ppm.											
14-Nov-16 17:00:00	36	71	37	1.022	179	41	116	0.850	194	51.57	10768.8	10690.6
14-Nov-16 17:15:00	36	71	36	1.027	180	40	110	0.916	122	51.58	10769.6	10691.2
14-Nov-16 17:30:00	36	71	36	1.024	179	40	111	1.112	38	51.59	10770.5	10691.8
14-Nov-16 17:45:00	36	71	36	1.023	179	39	111	0.952	102	51.60	10771.5	10692.4
14-Nov-16 18:00:00	36	70	35	1.017	177	39	111	1.040	67	51.61	10772.1	10692.9
14-Nov-16 18:15:00	36	70	35	1.020	181	39	114	1.049	79	51.62	10773.3	10693.4
14-Nov-16 18:30:00	36	69	35	1.018	178	39	110	0.972	109	51.63	10774.2	10693.9
14-Nov-16 18:45:00	36	70	34	1.025	183	39	112	0.971	109	51.65	10775.0	10694.3
14-Nov-16 19:00:00	36	69	34	1.024	178	38	114	0.913	158	51.66	10776.0	10694.8
14-Nov-16 19:15:00	36	70	34	1.023	182	38	112	1.122	46	51.67	10776.8	10695.2
14-Nov-16 19:30:00	36	69	33	1.018	176	37	109	1.006	63	51.68	10777.5	10695.7
14-Nov-16 19:45:00	36	70	33	1.021	177	37	109	0.990	85	51.69	10778.4	10696.2
14-Nov-16 20:00:00	Gas SG=0.642.											
14-Nov-16 20:00:00	36	68	32	1.019	185	37	113	0.937	154	51.70	10779.3	10696.6
14-Nov-16 20:15:00	36	69	32	1.018	182	37	111	0.975	88	51.71	10780.2	10697.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
14-Nov-16 20:30:00	36	69	32	1.016	178	37	109	1.006	88	51.72	10780.9	10697.8
14-Nov-16 20:45:00	36	70	32	1.020	180	37	111	0.984	102	51.73	10781.7	10698.3
14-Nov-16 21:00:00	36	69	31	1.016	183	37	110	0.876	170	51.74	10782.6	10698.9
14-Nov-16 21:15:00	36	69	31	1.023	184	37	111	0.939	140	51.75	10783.5	10699.5
14-Nov-16 21:30:00	36	69	31	1.019	178	37	110	1.081	54	51.76	10784.3	10700.1
14-Nov-16 21:45:00	36	69	31	1.015	182	37	112	1.147	42	51.77	10785.2	10700.6
14-Nov-16 22:00:00	36	69	31	1.015	182	37	113	1.135	36	51.79	10785.8	10701.2
14-Nov-16 22:15:00	36	70	31	1.020	182	37	112	0.947	137	51.80	10786.8	10701.7
14-Nov-16 22:30:00	36	70	30	1.023	177	37	107	1.071	47	51.81	10787.4	10702.1
14-Nov-16 22:45:00	36	69	30	1.015	179	36	109	1.078	56	51.82	10788.2	10702.6
14-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
14-Nov-16 23:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=54.91mS@20.8degC,Water Density=1015.8kg/m3@22.8DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-241.2mV2, Salinity=40000ppm.											
14-Nov-16 23:00:00	36	70	30	1.014	182	36	111	1.165	35	51.83	10789.0	10703.0
14-Nov-16 23:15:00	36	69	30	1.019	181	36	109	1.002	97	51.84	10789.7	10703.6
14-Nov-16 23:30:00	36	69	30	1.019	181	36	109	1.105	40	51.85	10790.6	10704.2
14-Nov-16 23:45:00	36	69	30	1.023	179	36	109	1.062	67	51.86	10791.3	10704.8
15-Nov-16 00:00:00	36	69	30	1.017	180	36	110	1.002	99	51.87	10792.4	10705.4
15-Nov-16 00:15:00	36	69	29	1.016	181	36	110	1.073	34	51.88	10793.1	10705.9
15-Nov-16 00:30:00	36	70	29	1.018	183	36	111	1.087	73	51.89	10793.9	10706.5
15-Nov-16 00:45:00	36	69	29	1.020	181	36	110	1.002	98	51.91	10794.8	10707.1
15-Nov-16 01:00:00	36	69	29	1.012	180	36	109	1.084	44	51.92	10795.5	10707.7
15-Nov-16 01:15:00	36	69	29	1.021	181	36	110	1.153	3	51.93	10796.3	10708.2
15-Nov-16 01:30:00	36	69	29	1.012	183	36	111	1.096	46	51.94	10797.0	10708.8
15-Nov-16 01:45:00	36	69	29	1.022	180	36	112	1.070	55	51.95	10797.8	10709.4
15-Nov-16 02:00:00	Gas SG=0.642.											
15-Nov-16 02:00:00	36	70	28	1.021	184	36	113	1.127	49	51.96	10798.8	10710.0
15-Nov-16 02:15:00	36	69	28	1.023	180	36	110	1.076	75	51.97	10799.6	10710.5
15-Nov-16 02:30:00	36	70	28	1.022	182	35	111	0.938	140	51.98	10800.5	10711.1
15-Nov-16 02:45:00	36	69	28	1.019	183	35	110	1.071	62	51.99	10801.3	10711.7
15-Nov-16 03:00:00	36	69	28	1.018	182	35	111	1.014	104	52.00	10802.4	10712.3
15-Nov-16 03:15:00	36	68	28	1.018	181	35	109	1.025	69	52.01	10803.1	10712.8
15-Nov-16 03:30:00	36	69	28	1.021	182	35	109	0.954	113	52.02	10804.0	10713.4
15-Nov-16 03:45:00	36	69	28	1.017	179	35	109	1.026	66	52.04	10804.7	10714.0
15-Nov-16 04:00:00	36	69	28	1.020	179	35	109	1.206	0	52.05	10805.3	10714.5
15-Nov-16 04:15:00	36	69	28	1.020	181	35	111	1.061	64	52.06	10806.0	10715.0
15-Nov-16 04:30:00	36	70	28	1.018	181	35	110	1.124	22	52.07	10806.7	10715.5
15-Nov-16 04:45:00	36	70	28	1.022	181	35	109	1.098	53	52.08	10807.4	10715.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
15-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
15-Nov-16 05:00:00	Water sample from VX: pH=6.3, Electrical Conductivity=52.55mS@19.6degC,Water Density=1015.4kg/m3@21.6DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-242.4mV2, Salinity=39000ppm.											
15-Nov-16 05:00:00	36	69	28	1.021	181	35	110	1.196	10	52.09	10808.1	10716.4
15-Nov-16 05:15:00	36	69	27	1.019	182	35	110	1.048	75	52.10	10809.0	10716.9
15-Nov-16 05:30:00	36	70	27	1.019								10717.3
15-Nov-16 05:45:00	36	70	27	1.024	181	35	108	1.076	69	52.12	10810.5	10717.8
15-Nov-16 06:00:00	36	69	27	1.019	187	35	112	1.062	74	52.13	10811.1	10718.2
15-Nov-16 06:15:00	36	69	27	1.023	184	35	110	1.159	25	52.14	10811.9	10718.8
15-Nov-16 06:30:00	36	69	27	1.019	183	36	111	1.145	37	52.16	10812.7	10719.4
15-Nov-16 06:45:00	36	69	27	1.027	180	36	109	0.989	91	52.17	10813.7	10720.0
15-Nov-16 07:00:00	36	70	28	1.020	177	36	109	0.965	119	52.18	10814.6	10720.5
15-Nov-16 07:15:00	36	70	28	1.022	175	36	111	0.951	122	52.19	10815.3	10721.1
15-Nov-16 07:30:00	36	70	28	1.024	178	37	112	1.062	67	52.20	10816.1	10721.7
15-Nov-16 07:45:00	36	70	29	1.023	177	37	110	1.172	11	52.21	10816.8	10722.3
15-Nov-16 08:00:00	Gas SG=0.642.											
15-Nov-16 08:00:00	36	70	30	1.021	177	38	108	1.159	13	52.22	10817.6	10722.8
15-Nov-16 08:15:00	SGS took Gas Samples from Separator Gas Outlet and Water Samples from Separator Oil Outlet.											
15-Nov-16 08:15:00	36	70	30	1.016	179	39	110	1.093	40	52.23	10818.3	10723.4
15-Nov-16 08:30:00	36	71	31	1.022	181	39	110	1.006	85	52.24	10819.0	10724.0
15-Nov-16 08:45:00	SGS completed taking samples.											
15-Nov-16 08:45:00	36	71	31	1.024	183	39	111	1.085	75	52.25	10820.0	10724.6
15-Nov-16 09:00:00	36	70	32	1.021	179	40	110	1.080	57	52.26	10821.0	10725.1
15-Nov-16 09:15:00	36	71	32	0.996	181	40	111	1.070	65	52.27	10821.8	10725.7
15-Nov-16 09:30:00	36	70	33	1.019	179	40	110	1.052	63	52.28	10822.7	10726.3
15-Nov-16 09:45:00	36	72	33	1.023	178	41	111	0.977	104	52.30	10823.4	10726.9
15-Nov-16 10:00:00	36	71	34	1.026	174	41	113	0.925	128	52.31	10824.2	10727.4
15-Nov-16 10:15:00	36	71	34	1.022	176	41	109	0.975	97	52.32	10825.0	10727.9
15-Nov-16 10:30:00	36	71	34	1.021	175	42	112	0.930	135	52.33	10826.0	10728.4
15-Nov-16 10:45:00	36	71	35	1.021	179	42	111	0.925	132	52.34	10826.9	10728.8
15-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
15-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=63.04mS@27.1degC,Water Density=1014.1kg/m3@28.2DegC, Dissolved Oxygen=0.9%, Oxidation Reduction Potential=-200.1mV2, Salinity=41000ppm.											
15-Nov-16 11:00:00	36	72	35	1.024	177	42	113	0.908	143	52.35	10827.9	10729.3
15-Nov-16 11:10:00	Flushed VX liquid port, observed trace of sand.											
15-Nov-16 11:15:00	36	71	36	1.021	177	43	114	1.136	26	52.36	10828.7	10729.6
15-Nov-16 11:30:00	36	72	36	1.021	179	43	112	1.010	89	52.37	10829.7	10730.0
15-Nov-16 11:45:00	36	71	36	1.020	179	44	113	0.944	124	52.38	10830.6	10730.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
15-Nov-16 12:00:00	36	72	37	1.026	177	44	111	1.001	95	52.39	10831.5	10730.7
15-Nov-16 12:15:00	36	72	37	1.022	176	44	112	1.049	57	52.40	10832.6	10731.1
15-Nov-16 12:30:00	36	73	37	1.023	177	44	112	1.098	37	52.41	10833.4	10731.6
15-Nov-16 12:45:00	36	73	37	1.024	173	44	112	0.993	87	52.42	10834.5	10732.0
15-Nov-16 13:00:00	36	73	38	1.007	172	44	109	1.118	9	52.43	10835.4	10732.5
15-Nov-16 13:15:00	36	75	38	1.029	181	44	114	0.969	103	52.44	10836.2	10733.1
15-Nov-16 13:30:00	36	73	38	1.030	173	44	109	1.028	76	52.45	10837.2	10733.6
15-Nov-16 13:45:00	36	74	39	1.025	177	44	113	0.981	99	52.46	10838.0	10734.2
15-Nov-16 14:00:00	Gas SG=0.640. Pumped 52 bbls from tank to pond.											
15-Nov-16 14:00:00	36	73	39	1.024	176	44	111	1.069	63	52.47	10838.9	10734.8
15-Nov-16 14:15:00	36	75	39	1.018	179	44	114	1.024	84	52.48	10839.8	10735.3
15-Nov-16 14:30:00	36	75	39	1.025	178	44	111	0.927	137	52.49	10840.5	10735.7
15-Nov-16 14:45:00	36	75	39	1.021	178	44	109	1.045	55	52.50	10841.2	10736.2
15-Nov-16 15:00:00	36	75	39	1.017	177	44	109	0.917	126	52.51	10842.3	10736.6
15-Nov-16 15:15:00	36	75	39	1.021	177	44	111	1.037	72	52.52	10843.1	10737.1
15-Nov-16 15:30:00	36	74	39	1.023	175	44	110	1.051	62	52.54	10844.1	10737.5
15-Nov-16 15:45:00	36	74	39	1.017	177	44	111	1.132	26	52.55	10845.1	10738.0
15-Nov-16 16:00:00	36	74	39	1.021	177	43	112	1.031	63	52.56	10845.9	10738.5
15-Nov-16 16:15:00	36	75	39	1.022	177	43	111	0.979	98	52.57	10846.9	10739.0
15-Nov-16 16:30:00	36	74	38	1.021	177	43	114	1.019	71	52.58	10847.7	10739.6
15-Nov-16 16:45:00	36	74	38	1.019	176	42	112	0.912	111	52.59	10848.2	10740.2
15-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
15-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=62.57mS@26.8degC,Water Density=1014.3kg/m3@27.7DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-206.4mV2, Salinity=41000ppm.											
15-Nov-16 17:00:00	36	73	38	1.018	182	42	112	0.976	108	52.60	10849.1	10740.8
15-Nov-16 17:15:00	36	74	38	1.023	179	41	111	1.034	84	52.61	10849.9	10741.2
15-Nov-16 17:30:00	36	73	37	1.017	183	40	112	1.180	18	52.62	10850.9	10741.7
15-Nov-16 17:45:00	36	73	37	1.021	181	40	112	1.101	44	52.63	10851.7	10742.2
15-Nov-16 18:00:00	36	73	36	1.018	176	39	110	1.045	64	52.64	10852.6	10742.6
15-Nov-16 18:15:00	36	73	36	1.018	178	39	118	1.107	56	52.65	10853.3	10743.2
15-Nov-16 18:30:00	36	73	35	1.024	176	38	109	1.073	51	52.66	10854.2	10743.8
15-Nov-16 18:45:00	36	73	35	1.017	180	38	111	1.079	73	52.67	10855.0	10744.3
15-Nov-16 19:00:00	36	73	34	1.024	177	38	108	0.937	130	52.68	10856.1	10744.9
15-Nov-16 19:15:00	36	72	33	1.015	182	37	112	1.028	66	52.69	10857.0	10745.5
15-Nov-16 19:30:00	36	72	33	1.017	179	37	110	1.094	57	52.70	10858.0	10746.1
15-Nov-16 19:45:00	36	72	33	1.018	179	37	110	1.085	55	52.71	10858.9	10746.6
15-Nov-16 20:00:00	Gas SG=0.642.											
15-Nov-16 20:00:00	36	72	32	1.017	180	37	110	0.969	119	52.72	10860.2	10747.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
15-Nov-16 20:15:00	36	72	32	1.013	180	37	110	1.062	74	52.74	10860.8	10747.8
15-Nov-16 20:30:00	36	73	31	1.018	183	37	111	1.035	87	52.75	10861.7	10748.4
15-Nov-16 20:45:00	36	72	31	1.017	180	36	110	0.984	112	52.76	10862.4	10748.9
15-Nov-16 21:00:00	36	71	31	1.014	183	36	110	1.000	104	52.77	10863.3	10749.5
15-Nov-16 21:15:00	36	72	31	1.017	182	36	110	1.049	66	52.78	10864.3	10750.0
15-Nov-16 21:30:00	36	71	30	1.008	184	36	112	0.980	125	52.79	10865.2	10750.4
15-Nov-16 21:45:00	36	71	30	1.024	174	36	108	0.983	104	52.80	10866.1	10750.9
15-Nov-16 22:00:00	36	70	30	1.018	174	36	109	1.073	65	52.81	10867.1	10751.4
15-Nov-16 22:15:00	36	70	30	1.015	181	36	111	0.995	111	52.82	10868.1	10751.9
15-Nov-16 22:30:00	36	70	30	1.015	176	36	111	0.994	97	52.83	10868.8	10752.5
15-Nov-16 22:45:00	36	71	30	1.020	183	36	110	0.948	125	52.84	10869.6	10753.1
15-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
15-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=53.48mS@19.4degC,Water Density=1016.1kg/m3@21.5DegC, Dissolved Oxygen=0.7%, Oxidation Reduction Potential=-226.4mV2, Salinity=40000ppm.											
15-Nov-16 23:00:00	36	70	29	1.014	181	36	110	1.077	62	52.85	10870.4	10753.7
15-Nov-16 23:15:00	36	71	29	1.015	183	36	111	1.043	83	52.86	10871.5	10754.2
15-Nov-16 23:30:00	36	71	29	1.017	179	36	109	1.073	51	52.88	10872.2	10754.8
15-Nov-16 23:45:00	36	72	29	1.018	185	36	112	1.088	67	52.89	10873.1	10755.4
16-Nov-16 00:00:00	36	71	29	1.026	180	35	110	0.969	111	52.90	10873.9	10756.0
16-Nov-16 00:15:00	36	71	29	1.017	181	35	110	1.140	26	52.91	10874.7	10756.4
16-Nov-16 00:30:00	36	71	28	1.019	179	35	112	1.031	85	52.92	10875.5	10756.9
16-Nov-16 00:45:00	36	71	28	1.015	182	35	108	0.911	140	52.93	10876.4	10757.3
16-Nov-16 01:00:00	36	71	28	1.017	183	35	109	1.055	76	52.94	10877.4	10757.8
16-Nov-16 01:15:00	36	72	28	1.019	184	35	109	1.173	26	52.95	10878.1	10758.3
16-Nov-16 01:30:00	36	71	27	1.017	182	35	110	1.130	39	52.96	10878.8	10758.7
16-Nov-16 01:45:00	36	71	27	1.019	183	35	113	1.064	83	52.97	10879.4	10759.2
16-Nov-16 02:00:00	Gas SG=0.642.											
16-Nov-16 02:00:00	36	71	27	1.025	179	35	109	1.039	75	52.98	10880.1	10759.6
16-Nov-16 02:15:00	36	71	27	1.012	183	35	111	1.263	0	53.00	10880.7	10760.1
16-Nov-16 02:30:00	36	71	27	1.021	182	35	109	1.109	45	53.01	10881.4	10760.6
16-Nov-16 02:45:00	36	71	27	1.016	182	35	110	0.969	127	53.02	10882.3	10761.0
16-Nov-16 03:00:00	36	71	27	1.023	178	35	107	0.981	95	53.03	10882.9	10761.5
16-Nov-16 03:15:00	36	70	27	1.016	182	35	109	0.925	123	53.04	10883.6	10761.9
16-Nov-16 03:30:00	36	71	27	1.020	180	34	110	0.993	106	53.05	10884.3	10762.4
16-Nov-16 03:45:00	36	71	27	1.022	187	34	112	1.119	60	53.06	10885.2	10762.9
16-Nov-16 04:00:00	36	71	26	1.015	183	34	109	0.941	135	53.07	10886.0	10763.3
16-Nov-16 04:15:00	36	73	26	1.020	189	34	111	1.136	46	53.08	10886.8	10763.8
16-Nov-16 04:30:00	36	71	26	1.031	180	34	109	1.041	74	53.10	10887.6	10764.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
16-Nov-16 04:45:00	36	72	26	1.028	181	34	108	1.071	60	53.11	10888.4	10764.7
16-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
16-Nov-16 05:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=51.68mS@18degC,Water Density=1015.9kg/m3@20.1DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-249.8mV2, Salinity=40000ppm.											
16-Nov-16 05:00:00	36	71	26	1.025	180	34	109	1.059	66	53.12	10889.1	10765.2
16-Nov-16 05:15:00	36	72	26	1.023	185	34	109	1.072	70	53.13	10890.0	10765.6
16-Nov-16 05:30:00	36	71	26	1.023								10766.1
16-Nov-16 05:45:00	36	72	26	1.027	184	34	109	1.043	74	53.15	10891.3	10766.5
16-Nov-16 06:00:00	36	71	26	1.026	177	34	107	1.021	90	53.16	10891.9	10767.0
16-Nov-16 06:15:00	36	72	26	1.018	182	34	109	0.975	118	53.17	10892.6	10767.6
16-Nov-16 06:30:00	36	72	26	1.026	176	34	109	1.035	71	53.18	10893.2	10768.1
16-Nov-16 06:45:00	36	72	26	1.015	182	35	110	1.095	47	53.19	10894.0	10768.7
16-Nov-16 07:00:00	36	72	27	1.028	175	36	110	0.964	107	53.20	10894.9	10769.3
16-Nov-16 07:15:00	36	72	28	1.021	176	37	108	0.902	137	53.21	10895.6	10770.0
16-Nov-16 07:30:00	36	73	29	1.032	176	37	109	1.035	75	53.23	10896.4	10770.7
16-Nov-16 07:45:00	36	72	29	1.023	181	38	111	1.051	80	53.24	10897.4	10771.4
16-Nov-16 08:00:00	Gas SG=0.640.											
16-Nov-16 08:00:00	36	72	30	1.024	179	38	111	0.941	89	53.25	10898.2	10772.0
16-Nov-16 08:15:00	36	72	31	1.025	179	39	110	1.089	43	53.26	10899.2	10772.5
16-Nov-16 08:30:00	36	72	32	1.024	178	40	109	0.911	133	53.27	10900.1	10773.0
16-Nov-16 08:45:00	36	72	32	1.024	182	40	111	0.908	149	53.28	10900.9	10773.4
16-Nov-16 09:00:00	36	72	33	1.026	181	41	111	1.060	58	53.29	10901.6	10773.9
16-Nov-16 09:15:00	36	72	34	1.023	179	41	109	0.930	126	53.30	10902.6	10774.3
16-Nov-16 09:30:00	36	72	34	1.027	175	42	107	0.993	93	53.31	10903.8	10774.8
16-Nov-16 09:45:00	36	72	35	1.023	173	42	109	1.056	45	53.32	10904.8	10775.3
16-Nov-16 10:00:00	36	72	35	1.018	175	42	110	0.987	86	53.33	10905.6	10775.7
16-Nov-16 10:15:00	36	73	36	1.022	173	43	111	0.769	216	53.34	10906.6	10776.2
16-Nov-16 10:30:00	36	72	36	1.030	173	43	109	1.020	70	53.35	10907.5	10776.7
16-Nov-16 10:45:00	36	73	36	1.021	173	43	108	1.037	57	53.36	10908.5	10777.1
16-Nov-16 11:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
16-Nov-16 11:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=65.88mS@28.7degC,Water Density=1014kg/m3@29.2DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-200.8mV2, Salinity=41000ppm.											
16-Nov-16 11:00:00	36	74	37	1.022	176	43	112	1.066	56	53.37	10909.3	10777.6
16-Nov-16 11:10:00	Flushed VX liquid port, observed trace of sand.											
16-Nov-16 11:15:00	36	73	37	1.019	173	44	109	0.947	102	53.38	10910.5	10778.1
16-Nov-16 11:30:00	36	74	37	1.020	183	44	114	1.117	52	53.39	10911.4	10778.7
16-Nov-16 11:45:00	36	74	37	1.031	172	44	107	0.919	105	53.40	10912.3	10779.3
16-Nov-16 12:00:00	36	75	38	1.016	178	44	112	1.060	52	53.41	10913.0	10779.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
16-Nov-16 12:15:00	36	75	38	1.025	174	45	112	1.089	43	53.42	10914.0	10780.3
16-Nov-16 12:30:00	36	75	38	1.022	177	45	113	1.002	100	53.43	10915.0	10780.8
16-Nov-16 12:45:00	36	75	39	1.025	174	45	112	0.873	160	53.44	10916.1	10781.3
16-Nov-16 13:00:00	36	75	39	1.020	173	45	110	0.940	110	53.45	10916.9	10781.7
16-Nov-16 13:15:00	36	75	39	1.018	176	45	110	0.938	121	53.46	10917.9	10782.2
16-Nov-16 13:30:00	36	76	39	1.025	177	45	113	0.878	155	53.47	10918.9	10782.6
16-Nov-16 13:45:00	36	76	39	1.016	176	45	113	0.904	146	53.48	10920.0	10783.1
16-Nov-16 14:00:00	Gas SG=0.640.											
16-Nov-16 14:00:00	36	77	39	1.022	181	44	113	0.944	126	53.49	10920.9	10783.5
16-Nov-16 14:15:00	36	76	39	1.020	177	45	110	1.050	62	53.50	10921.7	10784.1
16-Nov-16 14:30:00	36	77	40	1.020	180	45	113	1.018	102	53.51	10922.8	10784.7
16-Nov-16 14:45:00	36	76	40	1.022	176	45	111	1.162	4	53.52	10923.7	10785.3
16-Nov-16 15:00:00	36	77	40	1.019	177	44	109	1.088	42	53.53	10924.6	10785.9
16-Nov-16 15:15:00	36	76	40	1.020	180	44	110	0.971	85	53.54	10925.5	10786.3
16-Nov-16 15:30:00	36	76	40	1.017	180	44	111	0.917	140	53.55	10926.3	10786.8
16-Nov-16 15:45:00	36	77	40	1.020	181	44	112	1.158	18	53.57	10927.1	10787.2
16-Nov-16 16:00:00	Pumped 53.8 bbls from tank to pond.											
16-Nov-16 16:00:00	36	77	40	1.026	177	44	109	1.050	63	53.58	10928.1	10787.7
16-Nov-16 16:15:00	36	75	39	1.022	177	44	110	1.062	53	53.59	10929.0	10788.2
16-Nov-16 16:30:00	36	76	39	1.021	176	43	114	1.078	58	53.60	10929.9	10788.6
16-Nov-16 16:45:00	36	75	39	1.022	176	43	108	1.075	53	53.61	10930.5	10789.1
16-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
16-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=67.24mS@30.5degC,Water Density=1013.4kg/m3@31DegC, Dissolved Oxygen=0.8%, Oxidation Reduction Potential=-194.3mV2, Salinity=41000ppm.											
16-Nov-16 17:00:00	36	76	39	1.019	177	43	109	1.113	47	53.62	10931.5	10789.5
16-Nov-16 17:05:00	Vx computer needed to be restarted due to force update from windows.											
16-Nov-16 17:15:00	36	74	39	1.023								10790.0
16-Nov-16 17:30:00	Vx computer back online and InterAct data resumed.											
16-Nov-16 17:30:00	36	75	39	1.016	179	41	109	0.999	74	53.62	10931.7	10790.5
16-Nov-16 17:45:00	36	62	38	0.989	147	40	95	0.796	85	53.63	10932.4	10790.9
16-Nov-16 18:00:00	36	75	38	0.903	208	40	127	1.079	118	53.64	10933.4	10791.4
16-Nov-16 18:15:00	36	80	37	1.109	189	40	118	1.050	121	53.65	10934.4	10791.9
16-Nov-16 18:30:00	36	73	36	1.070	179	39	110	1.053	57	53.66	10935.2	10792.5
16-Nov-16 18:45:00	36	76	35	1.038	175	39	111	1.060	66	53.67	10936.1	10793.1
16-Nov-16 19:00:00	36	73	35	1.033	177	38	109	1.022	96	53.69	10936.8	10793.7
16-Nov-16 19:15:00	36	74	34	1.022	180	38	114	1.001	105	53.70	10937.7	10794.1
16-Nov-16 19:30:00	36	73	33	1.030	178	37	110	0.876	158	53.71	10938.5	10794.6
16-Nov-16 19:45:00	36	73	33	1.023	179	37	111	1.060	71	53.72	10939.0	10795.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
16-Nov-16 20:00:00	Gas SG=0.642.											
16-Nov-16 20:00:00	36	74	32	1.026	175	37	111	1.034	76	53.73	10939.8	10795.5
16-Nov-16 20:15:00	36	73	32	1.019	178	36	108	1.108	32	53.74	10940.6	10796.0
16-Nov-16 20:30:00	36	73	31	1.017	181	36	110	1.052	58	53.75	10941.4	10796.4
16-Nov-16 20:45:00	36	73	31	1.017	182	36	110	1.051	82	53.76	10942.0	10796.9
16-Nov-16 21:00:00	36	72	30	1.019	177	36	113	1.147	30	53.77	10942.7	10797.4
16-Nov-16 21:15:00	36	72	30	1.017	180	36	109	1.163	29	53.78	10943.6	10797.8
16-Nov-16 21:30:00	36	72	30	1.017	179	36	109	1.063	65	53.80	10944.4	10798.3
16-Nov-16 21:45:00	36	73	29	1.016	178	35	112	0.904	132	53.81	10945.1	10798.7
16-Nov-16 22:00:00	36	72	29	1.015	179	35	107	1.098	50	53.82	10946.0	10799.2
16-Nov-16 22:15:00	36	72	29	1.014	181	35	108	1.035	92	53.83	10946.8	10799.7
16-Nov-16 22:30:00	36	72	29	1.021	181	35	112	1.010	104	53.84	10947.6	10800.1
16-Nov-16 22:45:00	36	72	28	1.013	182	35	115	1.043	98	53.85	10948.6	10800.6
16-Nov-16 23:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.642.											
16-Nov-16 23:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=54.16mS@19.8degC,Water Density=1015.7kg/m3@21.7DegC, Dissolved Oxygen=2%, Oxidation Reduction Potential=-228.1mV2, Salinity=40000ppm.											
16-Nov-16 23:00:00	36	72	28	1.017	182	35	111	0.935	121	53.86	10949.6	10801.0
16-Nov-16 23:15:00	36	72	28	1.015	182	35	111	1.108	53	53.87	10950.4	10801.6
16-Nov-16 23:30:00	36	73	28	1.019	180	35	110	1.049	62	53.88	10951.2	10802.2
16-Nov-16 23:45:00	36	72	28	1.020	180	35	108	0.964	128	53.89	10952.1	10802.8
17-Nov-16 00:00:00	36	72	27	1.013	182	35	109	0.942	134	53.90	10953.0	10803.3
17-Nov-16 00:15:00	36	72	27	1.018	181	35	108	1.098	44	53.91	10953.6	10803.9
17-Nov-16 00:30:00	36	72	27	1.021	176	35	106	1.012	79	53.93	10954.4	10804.5
17-Nov-16 00:45:00	36	73	27	1.018	181	34	110	1.174	14	53.94	10955.1	10805.1
17-Nov-16 01:00:00	36	71	27	1.022	179	34	107	1.006	97	53.95	10955.9	10805.6
17-Nov-16 01:15:00	36	72	27	1.011	180	35	111	0.987	112	53.96	10956.6	10806.2
17-Nov-16 01:30:00	36	72	27	1.020	182	35	111	0.969	127	53.97	10957.7	10806.8
17-Nov-16 01:45:00	36	72	27	1.022	176	35	107	1.048	68	53.98	10958.6	10807.4
17-Nov-16 02:00:00	Gas SG=0.644.											
17-Nov-16 02:00:00	36	71	27	1.017	180	35	111	0.974	112	53.99	10959.5	10807.9
17-Nov-16 02:15:00	36	71	27	1.021	178	35	108	1.101	52	54.00	10960.2	10808.5
17-Nov-16 02:30:00	36	71	27	1.018	182	35	109	1.156	35	54.01	10961.0	10809.1
17-Nov-16 02:45:00	36	72	27	1.017	176	35	107	1.002	69	54.02	10961.8	10809.7
17-Nov-16 03:00:00	36	72	27	1.014	179	35	112	1.255	0	54.03	10962.5	10810.2
17-Nov-16 03:15:00	36	73	27	1.017	178	35	114	0.997	98	54.05	10963.3	10810.8
17-Nov-16 03:30:00	36	72	27	1.016	177	35	113	0.977	119	54.06	10964.1	10811.4
17-Nov-16 03:45:00	36	73	27	1.014	180	35	109	1.044	55	54.07	10964.8	10812.0
17-Nov-16 04:00:00	36	73	27	1.019	179	35	111	1.047	79	54.08	10965.6	10812.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
17-Nov-16 04:15:00	36	73	27	1.015	179	35	109	1.071	54	54.09	10966.1	10813.0
17-Nov-16 04:30:00	36	72	27	1.015	183	35	111	1.051	76	54.10	10966.8	10813.5
17-Nov-16 04:45:00	36	73	27	1.015	177	35	108	0.958	113	54.11	10967.6	10813.9
17-Nov-16 05:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.644.											
17-Nov-16 05:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=52.75mS@19.2degC,Water Density=1015.5kg/m3@21.1DegC, Dissolved Oxygen=0.5%, Oxidation Reduction Potential=-224.6mV2, Salinity=40000ppm.											
17-Nov-16 05:00:00	36	73	27	1.007	179	35	107	1.141	25	54.12	10968.5	10814.4
17-Nov-16 05:15:00	36	73	27	1.016	176	35	109	0.960	73	54.13	10969.1	10814.9
17-Nov-16 05:30:00	36	73	27	1.016								10815.5
17-Nov-16 05:45:00	36	72	27	1.022	180	34	111	1.095	59	54.15	10970.4	10816.1
17-Nov-16 06:00:00	36	72	27	1.016	181	34	108	1.099	39	54.16	10971.1	10816.7
17-Nov-16 06:15:00	36	73	27	1.017	179	35	108	1.109	44	54.18	10971.9	10817.2
17-Nov-16 06:30:00	36	72	27	1.018	180	35	110	1.026	64	54.19	10972.5	10817.8
17-Nov-16 06:45:00	36	72	27	1.016	180	35	110	1.039	93	54.20	10973.2	10818.4
17-Nov-16 07:00:00	36	73	27	1.018	177	36	113	1.134	30	54.21	10974.3	10819.0
17-Nov-16 07:15:00	36	73	28	1.018	174	36	112	0.984	97	54.22	10974.9	10819.4
17-Nov-16 07:30:00	36	73	28	1.014	178	37	111	0.946	130	54.23	10975.8	10819.9
17-Nov-16 07:45:00	36	73	29	1.018	178	37	109	0.951	130	54.24	10976.9	10820.4
17-Nov-16 08:00:00	Gas SG=0.638.											
17-Nov-16 08:00:00	36	73	30	1.018	177	38	113	1.021	69	54.25	10977.8	10820.8
17-Nov-16 08:15:00	36	73	30	1.021	177	38	109	1.038	68	54.26	10978.5	10821.4
17-Nov-16 08:30:00	36	72	31	1.017	174	39	114	1.156	20	54.27	10979.3	10822.0
17-Nov-16 08:45:00	36	73	32	1.023	180	40	110	0.961	116	54.28	10980.2	10822.5
17-Nov-16 09:00:00	36	73	33	1.023	176	40	107	0.967	98	54.29	10981.1	10823.1
17-Nov-16 09:15:00	36	73	33	1.020	176	41	109	1.039	65	54.30	10982.0	10823.6
17-Nov-16 09:30:00	36	74	34	1.022	176	42	115	1.110	45	54.31	10983.1	10824.0
17-Nov-16 09:45:00	36	74	35	1.021	172	42	110	0.962	97	54.32	10983.9	10824.5
17-Nov-16 10:00:00	Took ALS water sample from Separator oil line. EC=61.46@26.4degC, PH=6.1, 10825 bbls returned											
17-Nov-16 10:00:00	36	74	35	1.017	173	42	110	0.979	110	54.33	10984.8	10825.0
17-Nov-16 10:15:00	36	75	36	1.020	172	43	114	0.963	94	54.34	10985.8	10825.4
17-Nov-16 10:30:00	36	76	36	1.023	177	43	112	1.075	38	54.36	10986.6	10825.9
17-Nov-16 10:45:00	36	75	37	1.023	176	44	111	0.915	127	54.37	10987.5	10826.3
17-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=65.65mS@29degC,Water Density=1013.2kg/m3@30.6DegC, Dissolved Oxygen=1.2%, Oxidation Reduction Potential=-207.6mV2, Salinity=41000ppm.											
17-Nov-16 11:00:00	Gas SG=0.638, CO2=4%, H2S=6ppm.											
17-Nov-16 11:00:00	36	75	37	1.024	172	44	112	1.015	75	54.38	10988.4	10826.8
17-Nov-16 11:15:00	36	75	38	1.020	173	44	113	0.960	104	54.39	10989.3	10827.1
17-Nov-16 11:30:00	36	76	38	1.017	174	45	109	1.022	66	54.40	10990.3	10827.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
17-Nov-16 11:45:00	36	75	38	1.021	176	45	112	1.029	71	54.41	10991.1	10827.8
17-Nov-16 12:00:00	36	76	39	1.021	178	45	112	0.941	120	54.42	10992.1	10828.2
17-Nov-16 12:15:00	36	76	39	1.023	175	45	111	0.953	110	54.43	10993.3	10828.7
17-Nov-16 12:30:00	36	76	39	1.019	172	45	111	1.100	31	54.44	10994.0	10829.3
17-Nov-16 12:45:00	36	76	39	1.019	171	45	110	1.057	42	54.45	10995.0	10829.9
17-Nov-16 13:00:00	36	77	40	1.021	173	45	110	0.977	91	54.46	10996.0	10830.5
17-Nov-16 13:15:00	36	76	40	1.024	173	45	110	0.949	105	54.47	10997.2	10831.0
17-Nov-16 13:30:00	36	77	40	1.018	179	45	111	1.107	35	54.48	10998.1	10831.6
17-Nov-16 13:45:00	36	76	40	1.020	176	45	109	0.919	120	54.49	10999.1	10832.2
17-Nov-16 14:00:00	Gas SG=0.640.											
17-Nov-16 14:00:00	36	77	40	1.017	179	45	114	0.988	117	54.50	10999.8	10832.8
17-Nov-16 14:15:00	36	77	40	1.017	178	45	113	1.044	76	54.51	11000.8	10833.1
17-Nov-16 14:30:00	36	78	40	1.013	178	45	112	0.926	121	54.52	11001.8	10833.5
17-Nov-16 14:45:00	36	77	40	1.019	177	45	112	0.995	77	54.53	11002.9	10833.8
17-Nov-16 15:00:00	36	77	40	1.016	176	45	112	0.949	118	54.54	11003.9	10834.2
17-Nov-16 15:15:00	36	77	40	1.022	176	45	114	0.877	151	54.55	11004.7	10834.8
17-Nov-16 15:30:00	36	77	40	1.020	175	45	108	0.878	153	54.56	11005.7	10835.5
17-Nov-16 15:45:00	36	77	40	1.021	178	44	110	1.010	78	54.57	11006.6	10836.2
17-Nov-16 16:00:00	36	77	40	1.019	178	44	111	0.985	85	54.58	11007.4	10836.9
17-Nov-16 16:15:00	36	77	40	1.017	175	44	112	0.870	156	54.59	11008.3	10837.4
17-Nov-16 16:30:00	36	76	40	1.019	180	44	115	0.947	127	54.60	11009.3	10837.8
17-Nov-16 16:45:00	36	76	40	1.021	172	43	112	0.996	74	54.61	11010.2	10838.3
17-Nov-16 17:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.640.											
17-Nov-16 17:00:00	36	77	40	1.016	179	43	111	0.973	91	54.62	11011.0	10838.8
17-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=62.86mS@26.1degC,Water Density=1014.6kg/m3@28.2DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-197.6mV2, Salinity=41000ppm.											
17-Nov-16 17:00:02	Took ISO tube gas sample #39 from Separator gas line. 76 psia @ 39.3degC.											
17-Nov-16 17:10:00	Pumped 56.12 bbls from tank to pond.											
17-Nov-16 17:15:00	36	76	39	1.019	176	42	109	0.997	83	54.63	11011.7	10839.3
17-Nov-16 17:30:00	36	76	39	1.013	181	41	110	0.913	134	54.64	11012.6	10839.9
17-Nov-16 17:45:00	36	75	38	1.017	176	40	110	1.149	13	54.65	11013.7	10840.5
17-Nov-16 18:00:00	36	75	37	0.989	174	40	109	1.107	28	54.66	11014.3	10841.0
17-Nov-16 18:15:00	36	79	37	1.025	185	40	114	1.134	47	54.68	11015.0	10841.5
17-Nov-16 18:30:00	36	74	36	1.030	173	39	107	0.924	116	54.69	11015.7	10842.0
17-Nov-16 18:45:00	36	76	36	1.017	175	39	108	1.002	96	54.70	11016.4	10842.4
17-Nov-16 19:00:00	36	75	35	1.015	172	39	111	1.071	63	54.71	11017.4	10842.9
17-Nov-16 19:15:00	36	75	35	1.020	174	38	109	0.975	108	54.72	11018.2	10843.4
17-Nov-16 19:30:00	36	75	34	1.017	177	38	111	0.935	129	54.73	11019.1	10843.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
17-Nov-16 19:45:00	36	73	34	1.020	177	38	109	0.918	126	54.74	11019.7	10844.3
17-Nov-16 20:00:00	Gas SG=0.642.											
17-Nov-16 20:00:00	36	75	33	1.013	181	38	112	1.017	104	54.75	11020.5	10844.7
17-Nov-16 20:15:00	36	75	33	1.020	179	37	113	1.105	42	54.76	11021.2	10845.2
17-Nov-16 20:30:00	36	75	33	1.018	179	37	110	1.012	76	54.77	11022.0	10845.7
17-Nov-16 20:45:00	36	75	33	1.019	176	37	111	0.988	101	54.78	11022.7	10846.1
17-Nov-16 21:00:00	36	74	32	1.014	177	37	110	0.963	127	54.79	11023.6	10846.6
17-Nov-16 21:15:00	36	75	32	1.017	174	37	108	0.901	144	54.80	11024.5	10847.1
17-Nov-16 21:30:00	36	75	32	1.014	179	37	110	0.887	141	54.82	11025.4	10847.7
17-Nov-16 21:45:00	36	73	32	1.013	179	37	114	1.152	7	54.83	11026.0	10848.3
17-Nov-16 22:00:00	36	74	32	1.016	181	37	111	1.096	59	54.84	11026.7	10848.9
17-Nov-16 22:15:00	36	73	31	1.013	178	37	116	1.055	59	54.85	11027.5	10849.3
17-Nov-16 22:30:00	36	74	31	1.017	179	37	108	1.097	57	54.86	11028.3	10849.8
17-Nov-16 22:45:00	36	73	31	1.018	174	36	110	1.177	13	54.87	11029.0	10850.3
17-Nov-16 23:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.642.											
17-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.90mS@22.3degC,Water Density=1014.2kg/m3@24.1DegC, Dissolved Oxygen=2.5%, Oxidation Reduction Potential=-223.2mV2, Salinity=40000ppm.											
17-Nov-16 23:00:00	36	73	31	1.009	176	36	110	1.054	70	54.88	11029.9	10850.7
17-Nov-16 23:15:00	36	74	31	1.022	171	37	108	0.953	116	54.89	11030.8	10851.2
17-Nov-16 23:30:00	36	74	31	1.009	176	37	113	1.107	45	54.90	11031.7	10851.6
17-Nov-16 23:45:00	36	73	31	1.012	182	37	111	1.191	9	54.91	11032.7	10852.1
18-Nov-16 00:00:00	36	73	30	1.014	187	37	114	1.127	52	54.92	11033.4	10852.5
18-Nov-16 00:15:00	36	74	30	1.029	178	36	111	1.027	76	54.93	11034.2	10853.0
18-Nov-16 00:30:00	36	73	30	1.014	181	36	112	1.035	64	54.95	11035.0	10853.5
18-Nov-16 00:45:00	36	74	30	1.015	181	36	111	1.114	51	54.96	11035.9	10853.9
18-Nov-16 01:00:00	36	75	30	1.025	180	36	111	0.981	116	54.97	11036.6	10854.4
18-Nov-16 01:15:00	36	73	30	1.020	178	36	108	1.116	33	54.98	11037.3	10855.0
18-Nov-16 01:30:00	36	73	30	1.019	178	36	114	0.964	117	54.99	11038.1	10855.5
18-Nov-16 01:45:00	36	73	29	1.017	180	36	111	1.072	45	55.00	11038.8	10856.1
18-Nov-16 02:00:00	Gas SG=0.642.											
18-Nov-16 02:00:00	36	73	29	1.021	179	36	110	1.101	54	55.01	11039.4	10856.7
18-Nov-16 02:15:00	36	73	29	1.018	181	36	112	1.036	89	55.02	11040.1	10857.3
18-Nov-16 02:30:00	36	74	29	1.019	177	36	109	1.080	35	55.03	11040.9	10857.8
18-Nov-16 02:45:00	36	74	29	1.018	180	36	112	1.140	43	55.04	11041.8	10858.4
18-Nov-16 03:00:00	36	73	29	1.015	179	36	110	1.096	51	55.05	11042.7	10859.0
18-Nov-16 03:15:00	36	74	29	1.019	174	36	110	1.146	10	55.07	11043.2	10859.4
18-Nov-16 03:30:00	36	73	29	1.018	173	36	106	1.036	60	55.08	11044.0	10859.9
18-Nov-16 03:45:00	36	73	29	1.013	178	36	110	0.860	178	55.09	11044.8	10860.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
18-Nov-16 04:00:00	36	73	29	1.018	175	36	110	1.136	26	55.10	11045.6	10860.8
18-Nov-16 04:15:00	36	73	29	1.015	180	36	110	1.080	53	55.11	11046.3	10861.3
18-Nov-16 04:30:00	36	72	29	1.021	180	36	112	1.104	49	55.12	11046.9	10861.8
18-Nov-16 04:45:00	36	73	28	1.016	183	36	114	1.044	75	55.13	11047.5	10862.2
18-Nov-16 05:00:00	BSW=100% no solids. CO2=4%, H2S=7ppm, Gas SG=0.642.											
18-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=54.88mS@21degC,Water Density=1014.9kg/m3@22.9DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-230.5mV2, Salinity=40000ppm.											
18-Nov-16 05:00:00	36	73	28	1.020	182	35	110	1.096	56	55.14	11048.2	10862.7
18-Nov-16 05:15:00	36	73	28	1.020	180	35	110	0.990	108	55.15	11049.0	10863.1
18-Nov-16 05:30:00	36	73	28	1.021								10863.6
18-Nov-16 05:45:00	36	73	28	1.014	177	35	109	1.025	76	55.17	11050.3	10864.1
18-Nov-16 06:00:00	36	74	28	1.020	181	35	112	1.002	93	55.18	11050.9	10864.5
18-Nov-16 06:15:00	36	72	28	1.018	179	35	110	0.984	99	55.20	11051.8	10865.1
18-Nov-16 06:30:00	36	73	28	1.018	178	36	114	1.001	116	55.21	11052.6	10865.7
18-Nov-16 06:45:00	36	73	28	1.024	175	36	110	0.985	91	55.22	11053.3	10866.2
18-Nov-16 07:00:00	36	74	29	1.017	179	36	113	0.967	51	55.23	11054.2	10866.8
18-Nov-16 07:15:00	36	73	29	1.000	175	37	106	1.109	31	55.24	11054.9	10867.3
18-Nov-16 07:30:00	36	76	30	1.027	182	37	114	1.038	84	55.25	11055.8	10867.7
18-Nov-16 07:45:00	36	73	30	1.031	170	38	110	1.002	93	55.26	11056.7	10868.2
18-Nov-16 08:00:00	Gas SG=0.638.											
18-Nov-16 08:00:00	36	74	31	1.016	183	38	113	1.071	57	55.27	11057.4	10868.7
18-Nov-16 08:15:00	36	74	31	1.032	173	38	106	0.994	89	55.28	11058.3	10869.3
18-Nov-16 08:30:00	36	74	32	1.020	181	39	111	1.044	88	55.29	11059.2	10870.0
18-Nov-16 08:45:00	36	74	32	1.029	174	39	114	0.952	127	55.30	11060.1	10870.7
18-Nov-16 09:00:00	36	74	33	1.020	174	40	109	1.177	14	55.31	11060.7	10871.4
18-Nov-16 09:15:00	36	74	33	1.019	176	40	109	1.114	35	55.32	11061.6	10871.8
18-Nov-16 09:30:00	36	75	34	1.026	175	41	108	1.110	33	55.33	11062.5	10872.1
18-Nov-16 09:45:00	36	74	34	1.021	176	41	110	1.125	20	55.34	11063.5	10872.4
18-Nov-16 10:00:00	36	75	35	1.020	175	42	111	0.953	113	55.35	11064.4	10872.8
18-Nov-16 10:15:00	36	74	35	1.010	178	42	111	1.078	45	55.37	11065.1	10873.3
18-Nov-16 10:30:00	36	76	36	1.032	176	43	109	0.963	108	55.38	11066.0	10873.7
18-Nov-16 10:45:00	36	74	36	1.023	172	43	113	0.920	118	55.39	11066.9	10874.2
18-Nov-16 11:00:00	BSW=100% no solids, CO2=4%, H2S=6ppm, Gas SG=0.640.											
18-Nov-16 11:00:00	36	75	37	1.021	178	43	113	1.031	92	55.40	11068.0	10874.6
18-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=65.8mS@28.9degC,Water Density=1012.7kg/m3@31DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-223.1mV2, Salinity=41000ppm.											
18-Nov-16 11:00:02	Drained VX liquid port, found trace of sand.											
18-Nov-16 11:15:00	36	75	37	1.019	173	44	111	1.108	19	55.41	11068.6	10875.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
18-Nov-16 11:30:00	36	76	37	1.018	176	44	112	0.950	127	55.42	11069.6	10875.5
18-Nov-16 11:45:00	36	76	38	1.020	181	44	114	0.985	105	55.43	11070.5	10876.0
18-Nov-16 12:00:00	36	75	38	1.023	173	45	110	0.983	82	55.44	11071.3	10876.5
18-Nov-16 12:15:00	36	76	39	1.016	181	45	114	0.898	167	55.45	11072.6	10876.8
18-Nov-16 12:27:00	Discussed maintenance procedure with Cactus.											
18-Nov-16 12:30:00	36	76	39	1.026	173	45	110	0.929	124	55.46	11073.5	10877.2
18-Nov-16 12:45:00	36	76	39	1.013	179	44	113	0.973	98	55.47	11074.5	10877.5
18-Nov-16 13:00:00	Cactus started maintenance on anulus access valves.											
18-Nov-16 13:00:00	36	77	39	1.026	179	45	115	0.947	120	55.48	11075.5	10877.9
18-Nov-16 13:15:00	36	76	40	1.024	176	45	110	0.886	124	55.49	11076.5	10878.4
18-Nov-16 13:30:00	36	76	40	1.021	176	46	114	0.963	103	55.50	11077.4	10879.0
18-Nov-16 13:45:00	36	76	40	1.022	173	45	109	0.990	91	55.51	11078.5	10879.6
18-Nov-16 14:00:00	36	77	40	1.021	173	45	108	0.922	100	55.52	11079.5	10880.2
18-Nov-16 14:15:00	36	77	40	1.016	173	45	112	1.073	46	55.53	11080.5	10880.4
18-Nov-16 14:26:00	Lifted 1.75" Orifice plate.											
18-Nov-16 14:26:00	End of MP.											
18-Nov-16 14:28:00	Shut in well at choke manifold due to wellhead maintenance job.											
18-Nov-16 14:29:00	Closed oil outlet on Separator.											
18-Nov-16 14:30:00	Cactus started maintenance on tree, closed master valve.											
18-Nov-16 14:30:00	0	12	39		487	46	-8	0.000	0	55.54	11081.1	10880.6
18-Nov-16 14:35:00	By-passed sand filter to prevent screens getting plugged with valve grease when well is re-opened.											
18-Nov-16 14:45:00	Pumped 36.34 bbls from tank to pond.											
18-Nov-16 14:45:00	0	12	41		591	44	-8	0.000	0	55.54	11081.1	10880.8
18-Nov-16 15:00:00	0	12	41		592	43	-7	0.000	0	55.54	11081.1	10881.1
18-Nov-16 15:15:00	0	12	43		594	43	-7	0.000	0	55.54	11081.1	10881.1
18-Nov-16 15:30:00	0	12	44		595	42	-7	0.000	0	55.54	11081.1	10881.1
18-Nov-16 15:45:00	0	12	45		596	42	-7	0.000	0	55.54	11081.1	10881.1
18-Nov-16 16:00:00	Cactus finished tree maintenance.											
18-Nov-16 16:00:00	0	12	46		596	42	-7	0.000	0	55.54	11081.1	10881.1
18-Nov-16 16:08:00	Opened MV to closed Choke manifold.											
18-Nov-16 16:10:00	Pre-flow meeting.											
18-Nov-16 16:15:00	0	12	46		915	43	-7	0.000	0	55.54	11081.1	10881.1
18-Nov-16 16:30:00	Opened well on 10/64" adjustable choke through Separator to gas flare.											
18-Nov-16 16:30:00	10	12	46		938	44	1	0.148	1	55.54	11081.1	10881.1
18-Nov-16 16:34:00	Increased to 12/64" adjustable choke.											
18-Nov-16 16:36:00	Increased to 16/64" adjustable choke.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
18-Nov-16 16:41:00	Increased to 20/64" adjustable choke.											
18-Nov-16 16:45:00	20	74	39		734	46	28	1.308	0	55.55	11081.2	10881.1
18-Nov-16 16:48:00	Increased to 24/64" adjustable choke.											
18-Nov-16 16:54:00	Increased to 28/64" adjustable choke.											
18-Nov-16 17:00:00	WHP increasing, well slugging.											
18-Nov-16 17:00:00	28	60	34		378	44	118	1.375	146	55.56	11081.7	10881.1
18-Nov-16 17:04:00	Increased to 32/64" adjustable choke.											
18-Nov-16 17:12:00	Increased to 36/64" adjustable choke.											
18-Nov-16 17:13:00	Switched to 36/64" fixed choke.											
18-Nov-16 17:15:00	36	77	37		311	41	209	1.806	157	55.58	11083.3	10881.8
18-Nov-16 17:30:00	36	67	36		237	40	165	1.638	25	55.60	11084.2	10882.5
18-Nov-16 17:45:00	36	65	35		247	40	167	1.478	81	55.61	11085.4	10883.1
18-Nov-16 18:00:00	BSW=100% no solids, CO2=4%, H2S=6ppm.											
18-Nov-16 18:00:00	36	62	34		236	40	159	1.385	141	55.63	11086.3	10883.8
18-Nov-16 18:15:00	36	62	34		239	40	163	1.644	22	55.64	11087.3	10884.2
18-Nov-16 18:30:00	36	60	33		224	39	157	1.445	59	55.66	11088.1	10884.5
18-Nov-16 18:45:00	36	68	33		223	39	153	1.458	61	55.67	11089.0	10884.9
18-Nov-16 19:00:00	36	66	32		222	38	151	1.337	114	55.69	11089.7	10885.2
18-Nov-16 19:15:00	36	64	32		216	38	145	1.364	73	55.70	11090.8	10885.7
18-Nov-16 19:30:00	36	70	32		216	38	146	1.476	22	55.72	11091.5	10886.1
18-Nov-16 19:45:00	36	68	31		212	37	143	1.246	128	55.73	11092.3	10886.6
18-Nov-16 20:00:00	36	67	31		211	37	144	1.221	131	55.74	11093.1	10887.1
18-Nov-16 20:15:00	36	66	31		209	37	140	1.222	107	55.76	11093.8	10887.4
18-Nov-16 20:30:00	36	66	30		205	37	137	1.283	63	55.77	11094.5	10887.7
18-Nov-16 20:45:00	36	65	30		203	37	138	1.214	109	55.78	11095.4	10888.1
18-Nov-16 21:00:00	Passed flow through sand filter.											
18-Nov-16 21:00:00	36	64	30		204	37	136	1.252	82	55.80	11096.2	10888.4
18-Nov-16 21:15:00	36	67	30		198	37	134	1.185	109	55.81	11097.0	10888.8
18-Nov-16 21:30:00	36	66	30		199	37	134	1.288	51	55.82	11097.7	10889.1
18-Nov-16 21:45:00	36	66	30		198	37	137	1.190	100	55.84	11098.5	10889.5
18-Nov-16 22:00:00	36	65	30		202	37	134	1.279	57	55.85	11099.2	10889.8
18-Nov-16 22:15:00	36	65	30		200	37	131	1.208	101	55.86	11100.2	10890.3
18-Nov-16 22:30:00	36	65	30		194	36	127	1.233	61	55.88	11100.9	10890.7
18-Nov-16 22:45:00	36	64	30		195	36	127	1.287	34	55.89	11101.7	10891.2
18-Nov-16 22:57:00	MP on 36/64" Fixed Choke.											
18-Nov-16 22:57:00	Lowered 1.75" Orifice plate.											
18-Nov-16 23:00:00	BSW=100% no solids, CO2=4%, H2S=8ppm, Gas SG=0.644.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
18-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.36mS@23.2degC,Water Density=1013.1kg/m3@25.2DegC, Dissolved Oxygen=2.9%, Oxidation Reduction Potential=-243.5mV2, Salinity=38000ppm.											
18-Nov-16 23:00:00	36	68	30		199	36	129	1.125	118	55.90	11102.3	10891.7
18-Nov-16 23:15:00	36	68	30	1.127	195	36	127	1.203	61	55.91	11103.2	10892.2
18-Nov-16 23:30:00	36	68	30	1.114	197	36	132	1.187	85	55.93	11104.1	10892.8
18-Nov-16 23:45:00	36	68	29	1.118	195	36	127	1.228	15	55.94	11104.9	10893.4
19-Nov-16 00:00:00	36	67	29	1.112	198	36	127	1.303	32	55.95	11105.4	10894.0
19-Nov-16 00:15:00	36	67	29	1.108	193	36	126	1.091	113	55.96	11106.2	10894.4
19-Nov-16 00:30:00	36	68	29	1.102	194	36	123	1.375	0	55.98	11106.8	10894.9
19-Nov-16 00:45:00	36	67	29	1.095	198	36	126	1.326	0	55.99	11107.4	10895.3
19-Nov-16 01:00:00	36	67	29	1.096	194	36	126	1.138	92	56.00	11108.4	10895.8
19-Nov-16 01:15:00	36	66	29	1.090	197	36	128	1.296	27	56.01	11109.0	10896.3
19-Nov-16 01:30:00	36	66	29	1.091	195	36	125	1.223	56	56.03	11109.8	10896.7
19-Nov-16 01:45:00	36	66	28	1.086	198	36	126	1.253	49	56.04	11110.4	10897.2
19-Nov-16 02:00:00	Gas SG=0.642.											
19-Nov-16 02:00:00	36	66	28	1.091	191	35	123	1.164	68	56.05	11111.2	10897.6
19-Nov-16 02:15:00	36	66	28	1.087	192	35	123	1.100	106	56.06	11112.1	10898.1
19-Nov-16 02:30:00	36	66	28	1.083	192	35	122	1.245	39	56.07	11113.2	10898.5
19-Nov-16 02:45:00	36	66	28	1.082	193	35	124	1.076	113	56.09	11113.9	10899.0
19-Nov-16 03:00:00	36	65	28	1.076	191	35	126	1.098	88	56.10	11114.7	10899.5
19-Nov-16 03:15:00	36	66	28	1.079	195	35	125	1.241	31	56.11	11115.4	10899.9
19-Nov-16 03:30:00	36	65	28	1.084	192	35	122	1.112	75	56.12	11116.4	10900.4
19-Nov-16 03:45:00	36	66	28	1.074	191	35	124	1.270	16	56.13	11117.2	10900.9
19-Nov-16 04:00:00	36	65	28	1.078	187	35	123	1.095	93	56.15	11117.9	10901.3
19-Nov-16 04:15:00	36	66	28	1.072	193	35	123	1.187	69	56.16	11118.8	10901.7
19-Nov-16 04:30:00	36	65	28	1.073	192	35	122	1.123	98	56.17	11119.6	10902.0
19-Nov-16 04:45:00	36	65	28	1.069	194	35	123	1.108	104	56.18	11120.2	10902.3
19-Nov-16 05:00:00	BSW=100% no solids, CO2=4%, H2S=7ppm, Gas SG=0.642.											
19-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.11mS@20.9degC,Water Density=1014.8kg/m3@22.8DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-250.5mV2, Salinity=40000ppm.											
19-Nov-16 05:00:00	36	65	28	1.074	186	35	127	1.250	19	56.19	11120.9	10902.7
19-Nov-16 05:15:00	36	65	28	1.070	188	35	118	1.089	111	56.21	11121.7	10903.2
19-Nov-16 05:30:00	36	65	28	1.067								10903.7
19-Nov-16 05:45:00	36	65	27	1.070	187	35	124	1.242	31	56.23	11123.1	10904.2
19-Nov-16 06:00:00	36	65	27	1.067	188	35	124	1.044	125	56.24	11123.9	10904.8
19-Nov-16 06:15:00	36	66	27	1.068	188	35	120	1.117	80	56.25	11124.5	10905.3
19-Nov-16 06:30:00	36	64	27	1.065	190	35	126	1.231	43	56.27	11125.2	10905.8
19-Nov-16 06:45:00	36	65	28	1.064	191	36	123	1.137	84	56.28	11126.0	10906.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg sc	qw sc	cum Gas	cum Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
19-Nov-16 07:00:00	36	63	28	1.063	189	36	122	1.033	144	56.29	11126.9	10906.8
19-Nov-16 07:15:00	36	66	29	1.062	189	37	123	1.211	38	56.30	11127.9	10907.4
19-Nov-16 07:30:00	36	65	29	1.061	185	37	122	1.174	30	56.31	11128.4	10908.0
19-Nov-16 07:45:00	36	65	30	1.062	187	37	123	0.976	160	56.32	11129.5	10908.6
19-Nov-16 08:00:00	Gas SG=0.638.											
19-Nov-16 08:00:00	36	64	30	1.057	186	38	123	1.077	102	56.34	11130.5	10909.1
19-Nov-16 08:15:00	36	65	31	1.066	186	38	124	1.067	113	56.35	11131.4	10909.6
19-Nov-16 08:30:00	36	65	31	1.067	188	39	120	1.227	13	56.36	11132.3	10910.0
19-Nov-16 08:45:00	36	65	32	1.062	188	39	123	1.188	49	56.37	11133.4	10910.5
19-Nov-16 09:00:00	36	65	32	1.064	186	40	124	1.176	53	56.38	11134.2	10911.0
19-Nov-16 09:15:00	36	65	33	1.059	188	40	125	1.117	64	56.39	11134.7	10911.2
19-Nov-16 09:30:00	36	65	33	1.062	188	41	121	0.989	143	56.40	11135.6	10911.4
19-Nov-16 09:45:00	36	65	34	1.064	186	41	121	0.991	124	56.42	11136.5	10911.7
19-Nov-16 10:00:00	36	65	34	1.061	183	42	122	1.176	47	56.43	11137.3	10911.9
19-Nov-16 10:15:00	36	65	35	1.066	184	42	123	1.016	128	56.44	11138.3	10912.5
19-Nov-16 10:30:00	36	66	35	1.056	187	42	120	1.025	125	56.45	11139.1	10913.0
19-Nov-16 10:45:00	36	66	36	1.061	180	42	123	1.118	35	56.46	11139.7	10913.6
19-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
19-Nov-16 11:00:00	36	65	36	1.052	185	43	120	1.089	90	56.47	11140.4	10914.2
19-Nov-16 11:00:01	Drained VX liquid port, found trace of sand.											
19-Nov-16 11:00:02	Water sample from VX: pH=6.5, Electrical Conductivity=63.94mS@28.8degC,Water Density=1012.38kg/m3@30DegC, Dissolved Oxygen=1.4%, Oxidation Reduction Potential=-247.2mV2, Salinity=40000ppm.											
19-Nov-16 11:15:00	36	65	36	1.058	182	43	121	1.038	98	56.48	11141.4	10914.7
19-Nov-16 11:30:00	36	65	36	1.057	182	42	127	1.086	105	56.49	11142.5	10915.1
19-Nov-16 11:45:00	36	65	36	1.058	186	43	123	1.051	104	56.51	11143.3	10915.6
19-Nov-16 12:00:00	36	66	37	1.056	185	43	120	1.206	30	56.52	11144.4	10916.0
19-Nov-16 12:15:00	36	66	37	1.056	184	42	120	1.116	72	56.53	11145.3	10916.6
19-Nov-16 12:30:00	36	66	37	1.057	187	44	119	1.044	94	56.54	11146.2	10917.2
19-Nov-16 12:45:00	36	66	37	1.056	185	44	124	1.139	53	56.55	11146.9	10917.8
19-Nov-16 13:00:00	36	67	38	1.058	188	44	122	1.100	81	56.56	11147.7	10918.3
19-Nov-16 13:15:00	36	66	38	1.056	186	44	120	1.147	60	56.57	11148.6	10918.8
19-Nov-16 13:30:00	36	66	38	1.055	186	44	121	1.043	106	56.59	11149.5	10919.3
19-Nov-16 13:45:00	36	65	38	1.054	183	44	120	1.132	62	56.60	11150.4	10919.7
19-Nov-16 14:00:00	Gas SG=0.640.											
19-Nov-16 14:00:00	36	66	39	1.053	184	45	120	1.101	64	56.61	11151.1	10920.2
19-Nov-16 14:15:00	36	66	39	1.052	183	45	124	1.154	49	56.62	11152.1	10920.6
19-Nov-16 14:30:00	36	67	39	1.053	186	45	121	1.037	120	56.63	11153.1	10921.1
19-Nov-16 14:45:00	36	67	39	1.056	184	45	125	1.139	70	56.64	11153.8	10921.6

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
19-Nov-16 15:00:00	36	66	39	1.052	182	44	118	0.987	143	56.65	11154.7	10922.0
19-Nov-16 15:15:00	36	66	38	1.050	183	42	123	1.122	79	56.67	11155.6	10922.2
19-Nov-16 15:30:00	36	66	38	1.051	186	43	122	1.041	101	56.68	11156.5	10922.5
19-Nov-16 15:45:00	36	66	38	1.052	183	44	120	1.111	67	56.69	11157.4	10922.7
19-Nov-16 16:00:00	36	66	39	1.051	184	44	120	1.164	55	56.70	11158.3	10922.9
19-Nov-16 16:15:00	36	65	39	1.055	185	44	124	0.961	154	56.71	11159.3	10923.4
19-Nov-16 16:30:00	36	66	39	1.048	181	44	123	1.048	108	56.72	11160.4	10923.9
19-Nov-16 16:45:00	36	67	39	1.051	183	43	121	1.030	129	56.73	11161.4	10924.3
19-Nov-16 17:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
19-Nov-16 17:00:00	Water sample from VX: pH=6.4, Electrical Conductivity=64.48mS@27.8degC,Water Density=1013.9kg/m3@29.1DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-242.5mV2, Salinity=41000ppm.											
19-Nov-16 17:00:00	36	66	39	1.046	181	43	120	1.157	34	56.74	11162.2	10924.8
19-Nov-16 17:15:00	36	66	38	1.046	182	42	124	1.207	12	56.75	11162.7	10925.3
19-Nov-16 17:30:00	36	66	38	1.048	183	41	118	1.044	109	56.76	11163.4	10925.9
19-Nov-16 17:45:00	36	67	37	1.045	183	40	118	1.030	117	56.77	11164.3	10926.5
19-Nov-16 18:00:00	36	65	36	1.046	180	40	120	1.144	50	56.78	11165.0	10927.1
19-Nov-16 18:15:00	36	67	36	1.042	185	39	123	1.097	82	56.80	11166.0	10927.5
19-Nov-16 18:30:00	36	66	35	1.045	187	39	124	1.086	93	56.81	11166.9	10928.0
19-Nov-16 18:45:00	36	66	35	1.042	185	39	123	1.083	84	56.82	11167.8	10928.5
19-Nov-16 19:00:00	36	66	35	1.047	186	39	124	1.133	70	56.83	11168.6	10928.9
19-Nov-16 19:15:00	36	65	34	1.045	183	39	119	1.093	71	56.84	11169.5	10929.4
19-Nov-16 19:30:00	36	66	34	1.043	186	39	119	1.136	65	56.85	11170.5	10929.8
19-Nov-16 19:45:00	36	65	33	1.047	184	38	122	1.089	68	56.86	11171.3	10930.3
19-Nov-16 20:00:00	Gas SG=0.642.											
19-Nov-16 20:00:00	36	65	33	1.041	187	38	119	1.053	99	56.88	11172.3	10930.8
19-Nov-16 20:15:00	36	65	33	1.041	186	38	124	1.190	33	56.89	11173.3	10931.2
19-Nov-16 20:30:00	36	66	33	1.041	187	38	119	1.151	62	56.90	11174.0	10931.7
19-Nov-16 20:45:00	36	64	32	1.042	184	38	123	1.002	130	56.91	11175.0	10932.1
19-Nov-16 21:00:00	36	65	32	1.042	184	38	122	1.089	93	56.92	11176.0	10932.6
19-Nov-16 21:15:00	36	65	32	1.044	183	38	120	0.941	179	56.93	11176.9	10933.2
19-Nov-16 21:30:00	36	65	32	1.036	184	37	118	1.086	91	56.94	11177.9	10933.7
19-Nov-16 21:45:00	36	65	32	1.044	183	37	120	0.962	146	56.95	11178.9	10934.3
19-Nov-16 22:00:00	36	65	32	1.040	184	37	119	1.041	111	56.97	11179.8	10934.9
19-Nov-16 22:15:00	36	65	32	1.041	186	37	118	1.204	26	56.98	11180.5	10935.4
19-Nov-16 22:30:00	36	65	31	1.037	185	37	122	1.052	92	56.99	11181.2	10935.8
19-Nov-16 22:45:00	36	65	31	1.037	190	37	121	1.298	7	57.00	11182.1	10936.3
19-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.642.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
19-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.78mS@23.1degC,Water Density=1013.5kg/m3@25.1DegC, Dissolved Oxygen=2.9%, Oxidation Reduction Potential=-242.3mV2, Salinity=40000ppm.											
19-Nov-16 23:00:00	36	64	31	1.039	185	37	121	1.154	60	57.01	11182.9	10936.7
19-Nov-16 23:15:00	36	65	31	1.034	186	37	119	1.109	80	57.02	11183.8	10937.2
19-Nov-16 23:30:00	36	65	31	1.040	187	37	121	1.016	119	57.04	11184.5	10937.7
19-Nov-16 23:45:00	36	65	31	1.041	184	37	118	1.057	104	57.05	11185.4	10938.1
20-Nov-16 00:00:00	36	65	31	1.037	186	37	116	1.099	97	57.06	11186.3	10938.6
20-Nov-16 00:15:00	36	65	31	1.034	185	37	119	1.122	68	57.07	11187.1	10939.0
20-Nov-16 00:30:00	36	65	31	1.039	187	37	123	1.161	60	57.08	11188.1	10939.5
20-Nov-16 00:45:00	36	65	30	1.039	185	36	118	1.112	64	57.09	11188.8	10940.0
20-Nov-16 01:00:00	36	65	30	1.035	184	36	117	1.204	27	57.10	11189.5	10940.4
20-Nov-16 01:15:00	36	65	30	1.037	189	36	121	1.212	45	57.12	11190.4	10940.9
20-Nov-16 01:30:00	36	65	30	1.041	183	36	120	1.192	28	57.13	11191.1	10941.3
20-Nov-16 01:45:00	36	65	30	1.034	186	36	124	1.169	50	57.14	11191.7	10941.8
20-Nov-16 02:00:00	Gas SG=0.642.											
20-Nov-16 02:00:00	36	65	30	1.037	187	36	121	1.092	76	57.15	11192.3	10942.3
20-Nov-16 02:15:00	36	66	30	1.036	185	36	117	1.228	21	57.16	11193.1	10942.7
20-Nov-16 02:30:00	36	65	30	1.040	184	37	121	1.159	68	57.18	11193.8	10943.2
20-Nov-16 02:45:00	36	65	30	1.037	182	36	122	0.987	142	57.19	11194.6	10943.6
20-Nov-16 03:00:00	36	64	29	1.037	185	36	122	1.082	89	57.20	11195.6	10944.1
20-Nov-16 03:15:00	36	65	29	1.038	183	36	119	1.273	0	57.21	11196.5	10944.5
20-Nov-16 03:30:00	36	64	29	1.037	180	36	117	1.126	60	57.22	11197.3	10945.0
20-Nov-16 03:45:00	36	64	29	1.036	187	36	122	1.134	75	57.23	11198.2	10945.5
20-Nov-16 04:00:00	36	64	29	1.043	181	36	124	1.100	91	57.24	11199.0	10945.9
20-Nov-16 04:15:00	36	64	29	1.037	186	36	116	1.098	86	57.26	11200.0	10946.4
20-Nov-16 04:30:00	36	64	29	1.040	187	36	119	1.155	56	57.27	11200.9	10946.9
20-Nov-16 04:45:00	36	65	29	1.039	184	36	121	1.005	136	57.28	11201.5	10947.3
20-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.644.											
20-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=55.18mS@21degC,Water Density=1014.6kg/m3@23DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-249.8mV2, Salinity=40000ppm.											
20-Nov-16 05:00:00	36	65	29	1.036	185	36	117	1.127	58	57.29	11202.3	10947.8
20-Nov-16 05:01:00	Pumped 71.3 bbls from tank to pond.											
20-Nov-16 05:15:00	36	65	29	1.036	187	36	117	1.095	83	57.30	11203.0	10948.2
20-Nov-16 05:30:00	36	65	29	1.041								10948.7
20-Nov-16 05:45:00	36	65	29	1.035	187	36	120	1.219	23	57.32	11204.5	10949.1
20-Nov-16 06:00:00	36	65	29	1.036	185	36	115	1.145	53	57.34	11205.1	10949.5
20-Nov-16 06:15:00	36	64	29	1.036	186	36	116	1.074	103	57.35	11205.9	10950.0
20-Nov-16 06:30:00	36	64	28	1.028	185	35	117	1.208	23	57.36	11206.8	10950.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
20-Nov-16 06:45:00	36	64	28	1.039	188	35	121	1.140	81	57.37	11207.7	10950.9
20-Nov-16 07:00:00	36	64	28	1.037	181	36	116	1.236	0	57.38	11208.3	10951.3
20-Nov-16 07:15:00	36	64	28	1.034	186	36	120	1.048	124	57.39	11209.0	10951.7
20-Nov-16 07:30:00	36	65	29	1.035	184	36	118	1.077	83	57.40	11209.7	10952.2
20-Nov-16 07:45:00	36	65	29	1.035	185	36	121	1.141	77	57.42	11210.3	10952.6
20-Nov-16 08:00:00	Gas SG=0.638.											
20-Nov-16 08:00:00	36	65	29	1.038	182	37	117	1.293	0	57.43	11211.1	10953.0
20-Nov-16 08:15:00	36	65	30	1.036	184	38	120	1.047	111	57.44	11212.0	10953.5
20-Nov-16 08:30:00	36	65	31	1.043	184	39	116	1.019	102	57.45	11212.9	10953.9
20-Nov-16 08:45:00	36	64	32	1.040	181	40	119	1.198	25	57.46	11213.6	10954.4
20-Nov-16 09:00:00	36	66	32	1.037	185	40	122	0.984	144	57.47	11214.5	10954.8
20-Nov-16 09:15:00	36	65	33	1.048	186	40	119	0.983	108	57.48	11215.5	10955.3
20-Nov-16 09:30:00	36	65	33	1.039	183	41	117	1.072	90	57.50	11216.4	10955.7
20-Nov-16 09:45:00	36	65	34	1.042	184	41	118	1.014	129	57.51	11217.2	10956.1
20-Nov-16 10:00:00	36	65	34	1.043	179	41	121	1.103	71	57.52	11217.9	10956.6
20-Nov-16 10:15:00	36	67	35	1.042	181	42	119	1.024	101	57.53	11218.8	10957.0
20-Nov-16 10:30:00	36	66	35	1.041	183	42	118	1.126	50	57.54	11219.6	10957.5
20-Nov-16 10:45:00	36	66	36	1.041	185	42	119	1.021	117	57.55	11220.7	10957.9
20-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
20-Nov-16 11:00:00	36	66	36	1.042	185	42	122	1.129	57	57.56	11221.4	10958.3
20-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=64.73mS@27.9degC,Water Density=1013.5kg/m3@29DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-270mV2, Salinity=41000ppm.											
20-Nov-16 11:05:00	Took ALS sample from Separator oil line, PH 6.1, EC=65.84mS @30.5degC, 10958bbls.											
20-Nov-16 11:15:00	36	65	36	1.036	183	43	122	1.036	98	57.58	11222.3	10958.8
20-Nov-16 11:30:00	36	66	36	1.036	182	44	124	0.950	150	57.59	11223.4	10959.3
20-Nov-16 11:45:00	36	66	36	1.041	183	42	122	0.998	122	57.60	11224.4	10959.7
20-Nov-16 12:00:00	36	66	36	1.036	184	43	118	1.039	114	57.61	11225.2	10960.2
20-Nov-16 12:15:00	36	66	36	1.040	181	42	119	1.048	92	57.62	11226.0	10960.6
20-Nov-16 12:30:00	36	66	36	1.038	181	41	120	1.072	62	57.63	11226.8	10961.1
20-Nov-16 12:45:00	36	66	36	1.037	182	41	123	1.051	101	57.64	11227.8	10961.6
20-Nov-16 13:00:00	36	66	36	1.039	183	42	122	1.120	79	57.65	11228.7	10962.0
20-Nov-16 13:15:00	36	66	36	1.035	183	43	120	0.999	124	57.66	11229.5	10962.5
20-Nov-16 13:30:00	36	66	37	1.039	187	45	119	1.016	146	57.68	11230.4	10962.9
20-Nov-16 13:45:00	36	66	38	1.039	184	44	122	1.059	108	57.69	11231.3	10963.4
20-Nov-16 14:00:00	Gas SG=0.640.											
20-Nov-16 14:00:00	36	66	37	1.034	184	42	125	1.158	48	57.70	11232.4	10963.9
20-Nov-16 14:15:00	36	66	36	1.036	183	39	117	0.977	114	57.71	11233.3	10964.3
20-Nov-16 14:20:00	Electrical Storm in area.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
20-Nov-16 14:30:00	36	66	34	1.036	185	37	120	1.076	70	57.72	11234.2	10964.8
20-Nov-16 14:45:00	36	66	32	1.033	185	34	119	1.041	119	57.73	11235.0	10965.2
20-Nov-16 15:00:00	36	66	31	1.034	185	34	119	1.156	48	57.74	11235.9	10965.7
20-Nov-16 15:15:00	36	65	30	1.033	183	32	117	1.235	5	57.75	11236.5	10966.2
20-Nov-16 15:27:00	Noticed smoke a few km's from well site, possible fire from lightning strike.											
20-Nov-16 15:30:00	36	66	29	1.033	184	33	122	1.113	82	57.77	11237.3	10966.6
20-Nov-16 15:45:00	Discussed ER plan and how to secure well with WSR, in event fire starts to pose a threat to the wellsite.											
20-Nov-16 15:45:00	36	64	28	1.038	184	34	118	1.250	31	57.78	11238.2	10967.1
20-Nov-16 16:00:00	36	65	28	1.033	183	35	123	1.037	122	57.79	11239.0	10967.5
20-Nov-16 16:15:00	36	65	28	1.035	186	35	122	1.040	107	57.80	11239.8	10968.0
20-Nov-16 16:30:00	36	65	28	1.036	183	35	117	1.178	43	57.81	11240.6	10968.5
20-Nov-16 16:45:00	36	65	29	1.033	182	37	119	1.139	50	57.82	11241.3	10968.9
20-Nov-16 17:00:00	BSW=100% no solids, H2S=6ppm, CO2=4%, Gas SG=0.640.											
20-Nov-16 17:00:00	36	65	30	1.038	185	38	118	1.231	21	57.83	11242.2	10969.4
20-Nov-16 17:01:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.29mS@22.9degC,Water Density=1013.9kg/m3@24.9DegC, Dissolved Oxygen=3.5%, Oxidation Reduction Potential=-193mV2, Salinity=40000ppm.											
20-Nov-16 17:15:00	36	66	30	1.039	181	38	121	1.102	73	57.84	11243.0	10969.9
20-Nov-16 17:30:00	36	66	31	1.034	182	38	118	1.155	37	57.86	11243.7	10970.5
20-Nov-16 17:45:00	36	66	31	1.033	186	38	118	0.980	143	57.87	11244.6	10971.1
20-Nov-16 18:00:00	36	65	31	1.034	187	38	125	1.051	127	57.88	11245.2	10971.7
20-Nov-16 18:15:00	36	65	31	1.032	186	37	122	1.073	93	57.89	11246.1	10972.2
20-Nov-16 18:30:00	36	66	31	1.034	182	37	115	0.979	114	57.90	11247.1	10972.8
20-Nov-16 18:45:00	36	65	31	1.037	185	37	118	1.074	65	57.91	11248.0	10973.4
20-Nov-16 19:00:00	36	66	31	1.035	181	37	115	1.027	107	57.92	11249.0	10974.0
20-Nov-16 19:15:00	36	66	30	1.031	183	37	119	1.105	72	57.93	11249.9	10974.5
20-Nov-16 19:30:00	36	65	30	1.032	184	37	117	1.130	56	57.95	11250.7	10975.1
20-Nov-16 19:45:00	36	65	30	1.029	186	36	119	1.143	44	57.96	11251.5	10975.7
20-Nov-16 20:00:00	Gas SG=0.642.											
20-Nov-16 20:00:00	36	66	30	1.032	186	37	118	1.222	26	57.97	11252.0	10976.3
20-Nov-16 20:15:00	36	65	30	1.030	186	36	117	1.159	41	57.98	11252.7	10976.7
20-Nov-16 20:30:00	36	65	29	1.032	187	36	121	1.045	113	57.99	11253.5	10977.2
20-Nov-16 20:45:00	36	65	29	1.035	184	36	119	1.181	42	58.00	11254.3	10977.7
20-Nov-16 21:00:00	36	66	29	1.034	185	36	119	1.054	95	58.02	11255.2	10978.1
20-Nov-16 21:15:00	36	65	29	1.031	185	36	121	1.020	101	58.03	11256.0	10978.6
20-Nov-16 21:30:00	36	66	29	1.031	184	36	120	1.028	104	58.04	11256.7	10979.0
20-Nov-16 21:45:00	36	66	29	1.035	182	36	118	1.118	67	58.05	11257.5	10979.5
20-Nov-16 22:00:00	36	65	29	1.033	186	36	116	1.151	41	58.06	11258.2	10980.0
20-Nov-16 22:05:00	Shut in the well at Wellhead Master valve due to bushfire coming close to the wellsite.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
20-Nov-16 22:06:00	Lifted 1.75" Orifice plate.											
20-Nov-16 22:06:00	End of MP.											
20-Nov-16 22:07:00	Closed Choke manifold.											
20-Nov-16 22:08:00	Closed wellhead Wing valve.											
20-Nov-16 22:09:00	Closed SSV.											
20-Nov-16 22:15:00	0	13	27		21	35	-1	0.000	0	58.06	11258.5	10980.0
20-Nov-16 22:28:40	1.0927E-087.28467E-1011258.494490.00268530.0001790258.06459872-3.333316.6670.2144821.17833.88327.099											
20-Nov-16 22:30:00	0	13	27		21	34	0	0.000	0	58.06	11258.5	10980.0
20-Nov-16 22:45:00	0	13	27		21	33	0	0.000	0	58.06	11258.5	10980.0
20-Nov-16 23:00:00	0	13	27		21	32	0	0.000	0	58.06	11258.5	10980.0
20-Nov-16 23:15:00	0	13	27		21	31	-0	0.000	0	58.06	11258.5	10980.0
20-Nov-16 23:30:00	0	13	27		21	31	0	0.000	0	58.06	11258.5	10980.0
20-Nov-16 23:45:00	0	13	26		21	30	0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 00:00:00	0	13	26		21	30	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 00:15:00	0	13	26		21	29	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 00:30:00	0	13	26		21	29	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 00:45:00	0	13	25		21	29	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 01:00:00	0	13	25		22	28	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 01:15:00	0	13	25		21	28	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 01:30:00	0	13	25		21	28	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 01:45:00	0	13	25		21	27	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 02:00:00	0	13	25		21	27	-1	0.000	0	58.06	11258.5	10980.0
21-Nov-16 02:15:00	0	13	25		21	27	-1	0.000	0	58.06	11258.5	10980.0
21-Nov-16 02:30:00	0	13	25		21	27	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 02:45:00	0	13	25		21	27	-0	0.000	0	58.06	11258.5	10980.0
21-Nov-16 02:56:00	Opened SSV.											
21-Nov-16 02:59:00	Opened wellhead Wing valve.											
21-Nov-16 03:00:00	Opened wellhead Master valve.											
21-Nov-16 03:00:00	0	13	25		1003	29	-0	0.000	0	58.07	11258.6	10980.0
21-Nov-16 03:15:00	0	13	25		1030	27	1	0.000	0	58.07	11258.6	10980.6
21-Nov-16 03:16:00	Opened well on 10/64" adjustable choke through Separator to gas flare.											
21-Nov-16 03:20:00	Increased to 12/64" adjustable choke.											
21-Nov-16 03:25:00	Increased to 16/64" adjustable choke.											
21-Nov-16 03:30:00	Increased to 20/64" adjustable choke.											
21-Nov-16 03:30:00	20	73	23		646	26	36	1.392	0	58.07	11258.6	10981.3
21-Nov-16 03:35:00	Increased to 24/64" adjustable choke.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
21-Nov-16 03:40:00	Increased to 28/64" adjustable choke.											
21-Nov-16 03:45:00	Increased to 32/64" adjustable choke.											
21-Nov-16 03:45:00	32	102	21		459	33	218	1.959	239	58.09	11259.8	10982.0
21-Nov-16 03:50:00	Increased to 36/64" adjustable choke.											
21-Nov-16 03:52:00	Switched to 36/64" fixed choke.											
21-Nov-16 04:00:00	36	106	24		436	35	434	2.666	288	58.11	11260.9	10982.7
21-Nov-16 04:15:00	Bypassed sand filter, LH filter plugged after slug.											
21-Nov-16 04:15:00	36	89	24		425	34	163	2.109	16	58.14	11261.1	10983.1
21-Nov-16 04:30:00	36	106	25		322	34	225	2.204	65	58.16	11261.8	10983.4
21-Nov-16 04:45:00	36	88	26		289	35	203	1.984	68	58.18	11262.4	10983.7
21-Nov-16 05:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.644.											
21-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=45.59mS@21.6degC,Water Density=1008.8kg/m3@23.4DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-286.8mV2, Salinity=32000ppm.											
21-Nov-16 05:00:00	36	103	27		295	35	206	1.940	67	58.20	11263.1	10984.1
21-Nov-16 05:15:00	36	98	27		280	36	196	1.817	97	58.22	11263.9	10984.4
21-Nov-16 05:30:00	36	100	27									10984.8
21-Nov-16 05:45:00	36	96	27		266	36	187	1.807	63	58.26	11265.0	10985.1
21-Nov-16 06:00:00	36	94	27		269	36	187	1.895	17	58.28	11265.7	10985.5
21-Nov-16 06:15:00	36	91	27		253	36	176	1.732	66	58.30	11266.2	10985.8
21-Nov-16 06:18:00	Lined up sand filter to RH filter, closed by-pass.											
21-Nov-16 06:20:00	By-pass valve only closing 17 out of 19 turns, indicating debris is cavity.											
21-Nov-16 06:30:00	36	89	27		250	36	173	1.872	0	58.32	11267.0	10986.2
21-Nov-16 06:45:00	36	86	28		248	36	171	1.549	105	58.33	11267.7	10986.5
21-Nov-16 07:00:00	36	86	28		240	37	168	1.494	118	58.35	11268.4	10986.9
21-Nov-16 07:10:00	Greased and cycled sand filter by-pass valve to clear debris from valve cavity.											
21-Nov-16 07:15:00	36	84	29		232	37	167	1.518	91	58.37	11269.1	10987.2
21-Nov-16 07:30:00	36	82	28		235	37	163	1.606	18	58.38	11269.8	10987.5
21-Nov-16 07:31:00	Closed SF by-pass valve, flowing through RH screen.											
21-Nov-16 07:39:00	Lowered 1.75" Orifice plate, differential pressure above 70% range, lifted 1.75" Orifice plate.											
21-Nov-16 07:40:00	Changed to 2" Orifice plate.											
21-Nov-16 07:45:00	36	81	28		235	38	160	1.457	93	58.40	11270.5	10987.9
21-Nov-16 07:55:00	MP on 36/64" Fixed Choke.											
21-Nov-16 07:55:00	Lowered 2" Orifice plate.											
21-Nov-16 08:00:00	Differential across sand filter slowly increasing, indicating RH screen is starting to plug.											
21-Nov-16 08:00:00	Gas SG=0.640.											
21-Nov-16 08:00:00	36	80	29		239	38	157	1.537	54	58.41	11271.4	10988.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
21-Nov-16 08:15:00	36	78	29	1.458	228	38	152	1.339	128	58.43	11272.0	10988.5
21-Nov-16 08:30:00	Flushed LH sand filter with fresh water.											
21-Nov-16 08:30:00	36	78	30	1.428	234	39	154	1.520	36	58.44	11272.8	10988.7
21-Nov-16 08:45:00	36	76	30	1.414	226	39	144	1.287	115	58.46	11273.6	10988.9
21-Nov-16 09:00:00	36	75	31	1.387	232	39	145	1.338	114	58.47	11274.4	10989.2
21-Nov-16 09:15:00	36	74	31	1.375	227	40	136	1.321	93	58.49	11275.1	10989.5
21-Nov-16 09:30:00	36	74	32	1.352	228	40	138	1.435	37	58.50	11275.8	10989.8
21-Nov-16 09:45:00	36	73	32	1.339	229	41	136	1.274	103	58.52	11276.6	10990.2
21-Nov-16 10:00:00	36	73	33	1.322	230	42	133	1.542	6	58.53	11277.2	10990.5
21-Nov-16 10:15:00	36	72	33	1.313	227	42	126	1.321	53	58.54	11278.0	10990.9
21-Nov-16 10:30:00	36	72	34	1.301	227	42	126	1.453	10	58.56	11278.5	10991.2
21-Nov-16 10:45:00	36	70	34	1.284	223	43	122	1.271	53	58.57	11279.1	10991.6
21-Nov-16 11:00:00	BSW=100% no solids, H2S=7ppm, CO2=4%, Gas SG=0.640.											
21-Nov-16 11:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=62.13mS@27.2degC,Water Density=1012.2kg/m3@29.2DegC, Dissolved Oxygen=2.7%, Oxidation Reduction Potential=-217.1mV2, Salinity=40000ppm.											
21-Nov-16 11:00:00	Flushed VX liquid port, found trace of sand and black grease like substance.											
21-Nov-16 11:00:00	36	70	35	1.270	228	43	124	1.320	45	58.58	11279.8	10991.9
21-Nov-16 11:15:00	36	69	35	1.260	225	43	126	1.302	52	58.60	11280.7	10992.4
21-Nov-16 11:30:00	36	69	35	1.248	226	44	119	1.293	49	58.61	11281.5	10992.8
21-Nov-16 11:45:00	36	69	36	1.237	227	44	117	1.186	75	58.62	11282.3	10993.3
21-Nov-16 12:00:00	36	69	36	1.233	222	44	113	1.312	13	58.64	11283.0	10993.8
21-Nov-16 12:15:00	36	68	36	1.219	222	44	114	1.206	71	58.65	11283.8	10994.3
21-Nov-16 12:30:00	36	67	37	1.208	229	45	114	1.221	62	58.66	11284.7	10994.9
21-Nov-16 12:42:00	Lifted 2.0" Orifice plate.											
21-Nov-16 12:42:00	End of MP.											
21-Nov-16 12:43:00	Switched to 36/64" adjustable choke.											
21-Nov-16 12:43:00	End of FP #3.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #4 EPT Flow - Data

Flow on 40/64" Fixed Choke

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
21-Nov-16 12:44:00	FP #4 Extended Production Test Flow on 40/64" Fixed Choke.											
21-Nov-16 12:44:00	Increased adjustable choke to 40/64".											
21-Nov-16 12:44:00	40	68	37		219	45	136	1.357	40	58.67	11285.4	10995.4
21-Nov-16 12:45:00	Installed 40/64" choke bean in manifold.											
21-Nov-16 12:45:00	40	68	37		207	45	135	1.400	8	58.67	11285.4	10995.5
21-Nov-16 12:49:00	Switched to 40/64" fixed choke.											
21-Nov-16 13:00:00	Continued to flush LH sand filer with fresh water. Black grease like substance being found in returns. Possible valve grease from tree.											
21-Nov-16 13:00:00	40	67	38		201	44	128	1.060	136	58.69	11286.3	10996.0
21-Nov-16 13:15:00	40	67	38		209	44	126	1.259	50	58.70	11287.2	10996.4
21-Nov-16 13:30:00	40	67	38		209	44	130	1.278	34	58.71	11287.9	10996.7
21-Nov-16 13:45:00	40	67	38		209	44	127	1.145	112	58.72	11288.9	10997.1
21-Nov-16 14:00:00	LH sand screen clean.											
21-Nov-16 14:00:00	Gas SG=0.640.											
21-Nov-16 14:00:00	40	66	38		206	44	120	1.116	95	58.73	11289.8	10997.4
21-Nov-16 14:06:38	Switched from RH sand screen to LH screen.											
21-Nov-16 14:07:00	Differential pressure across sand screen back to normal range.											
21-Nov-16 14:10:00	Started flushing RH sand screen with fresh water.											
21-Nov-16 14:15:00	40	67	38		172	44	157	1.130	136	58.75	11290.6	10997.8
21-Nov-16 14:30:00	40	66	39		171	45	153	1.169	100	58.76	11291.8	10998.1
21-Nov-16 14:45:00	40	68	39		173	44	158	1.397	2	58.77	11293.2	10998.5
21-Nov-16 15:00:00	40	67	39		172	44	156	1.129	91	58.78	11294.3	10998.8
21-Nov-16 15:12:00	MP on 40/64" Fixed Choke.											
21-Nov-16 15:12:00	Lowered 2.0" Orifice plate.											
21-Nov-16 15:15:00	40	68	39	1.187	172	43	160	1.171	94	58.80	11295.4	10999.4
21-Nov-16 15:30:00	40	67	38	1.191	172	42	156	1.160	117	58.81	11296.3	11000.0
21-Nov-16 15:45:00	40	67	38	1.196	164	43	159	1.202	88	58.82	11297.5	11000.5
21-Nov-16 16:00:00	40	67	38	1.186	166	43	159	1.082	150	58.83	11298.7	11001.1
21-Nov-16 16:15:00	40	67	38	1.189	166	43	152	1.089	124	58.84	11299.8	11001.6
21-Nov-16 16:30:00	40	67	38	1.178	168	43	153	1.060	161	58.85	11300.6	11002.0
21-Nov-16 16:45:00	40	67	38	1.182	162	42	152	1.127	90	58.87	11301.8	11002.5
21-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
21-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=66.25mS@30.7degC,Water Density=1011.5kg/m3@31.5DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-227.1mV2, Salinity=42000ppm.											
21-Nov-16 17:00:00	40	66	38	1.172	166	41	151	1.007	174	58.88	11302.7	11003.0
21-Nov-16 17:10:00	Pumped 54.28 bbls from tank to pond.											
21-Nov-16 17:15:00	40	66	37	1.172	166	40	155	1.251	62	58.89	11303.8	11003.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
21-Nov-16 17:30:00	40	65	36	1.166	164	40	149	1.144	101	58.90	11304.7	11003.6
21-Nov-16 17:45:00	40	66	36	1.168	164	40	153	1.033	152	58.91	11305.8	11004.0
21-Nov-16 18:00:00	40	65	36	1.158	165	40	145	1.075	131	58.92	11306.9	11004.3
21-Nov-16 18:15:00	40	65	35	1.164	169	39	153	1.203	84	58.94	11307.8	11004.9
21-Nov-16 18:30:00	40	65	35	1.158	165	39	149	1.182	80	58.95	11308.9	11005.5
21-Nov-16 18:45:00	40	64	35	1.159	163	39	150	1.282	34	58.96	11309.8	11006.1
21-Nov-16 19:00:00	40	65	34	1.152	167	39	154	1.108	130	58.97	11311.1	11006.6
21-Nov-16 19:15:00	40	72	34	1.149	167	39	148	1.141	94	58.98	11312.2	11007.1
21-Nov-16 19:30:00	40	72	34	1.152	162	39	148	1.062	132	59.00	11313.2	11007.5
21-Nov-16 19:45:00	40	71	34	1.149	165	39	148	1.015	172	59.01	11314.2	11008.0
21-Nov-16 20:00:00	Gas SG=0.642											
21-Nov-16 20:00:00	40	71	34	1.149	170	38	151	1.063	159	59.02	11315.3	11008.5
21-Nov-16 20:15:00	40	71	34	1.145	167	38	151	1.172	87	59.03	11316.1	11008.9
21-Nov-16 20:30:00	40	72	33	1.149	166	38	153	1.205	83	59.04	11317.1	11009.4
21-Nov-16 20:45:00	40	71	33	1.143	163	38	146	1.198	63	59.06	11318.0	11009.8
21-Nov-16 21:00:00	40	71	33	1.145	161	38	141	1.099	95	59.07	11319.2	11010.3
21-Nov-16 21:15:00	40	70	33	1.141	162	38	149	1.053	133	59.08	11320.0	11010.7
21-Nov-16 21:30:00	40	71	33	1.138	165	37	146	1.142	92	59.09	11320.8	11011.0
21-Nov-16 21:45:00	40	71	33	1.140	165	37	144	1.114	103	59.10	11321.9	11011.3
21-Nov-16 22:00:00	40	71	32	1.141	166	37	147	1.113	94	59.12	11322.8	11011.7
21-Nov-16 22:15:00	40	71	32	1.141	166	37	151	1.089	142	59.13	11323.7	11012.2
21-Nov-16 22:30:00	40	70	32	1.137	163	37	142	1.288	11	59.14	11324.6	11012.6
21-Nov-16 22:45:00	40	70	32	1.132	166	37	146	0.995	180	59.15	11325.5	11013.1
21-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
21-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=59.24mS@24.2degC,Water Density=1013.6kg/m3@26.2DegC, Dissolved Oxygen=5.6%, Oxidation Reduction Potential=-190.6mV2, Salinity=40000ppm.											
21-Nov-16 23:00:00	40	71	32	1.133	166	37	147	1.256	39	59.16	11326.4	11013.5
21-Nov-16 23:15:00	40	71	32	1.132	170	37	150	1.247	61	59.18	11327.2	11014.1
21-Nov-16 23:30:00	40	70	32	1.134	168	37	148	1.159	98	59.19	11328.2	11014.7
21-Nov-16 23:32:00	Lifted 2.0" Orifice plate due to bushfire coming close to the wellsite.											
21-Nov-16 23:32:00	End of MP.											
21-Nov-16 23:45:00	Discussed with WSR, kept flowing well and monitoring the bushfire closely.											
21-Nov-16 23:45:00	40	71	32		164	37	141	1.148	83	59.20	11329.0	11015.3
22-Nov-16 00:00:00	40	70	32		162	37	143	1.230	42	59.21	11329.9	11015.8
22-Nov-16 00:01:00	MP on 40/64" Fixed Choke.											
22-Nov-16 00:01:00	Lowered 2.0" Orifice plate.											
22-Nov-16 00:15:00	40	70	32	1.127	167	37	148	1.163	87	59.22	11330.9	11016.3
22-Nov-16 00:30:00	40	70	32	1.129	166	37	144	1.084	137	59.24	11332.2	11016.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
22-Nov-16 00:45:00	40	70	31	1.130	162	37	144	1.104	104	59.25	11332.9	11017.2
22-Nov-16 01:00:00	40	69	31	1.124	164	37	151	1.137	101	59.26	11333.8	11017.7
22-Nov-16 01:15:00	40	69	31	1.126	162	37	145	1.068	120	59.27	11334.6	11017.7
22-Nov-16 01:22:00	Lifted 2.0" Orifice plate.											
22-Nov-16 01:22:00	End of MP.											
22-Nov-16 01:23:00	Shut in the well at wellhead Master valve due to bushfire coming close to the wellsite.											
22-Nov-16 01:25:00	Closed Choke manifold.											
22-Nov-16 01:27:00	Closed wellhead Wing valve.											
22-Nov-16 01:28:00	Closed SSV.											
22-Nov-16 01:30:00	0	13	30		19	36	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 01:45:00	0	13	30		20	35	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 02:00:00	0	13	30		20	34	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 02:15:00	0	13	29		20	33	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 02:30:00	0	13	29		20	32	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 02:45:00	0	13	29		20	31	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 03:00:00	0	13	28		20	31	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 03:15:00	0	13	28		20	30	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 03:30:00	0	13	28		20	30	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 03:45:00	0	13	28		21	30	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 04:00:00	0	13	28		21	29	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 04:15:00	0	13	27		20	29	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 04:30:00	0	13	27		21	29	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 04:45:00	0	13	27		20	29	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 05:00:00	0	13	27		21	29	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 05:15:00	0	13	27		21	28	-0	0.000	0	59.28	11335.1	11017.7
22-Nov-16 05:30:00	0	13	27									11017.7
22-Nov-16 05:45:00	Opened SSV.											
22-Nov-16 05:45:00	0	13	27		21	28	-1	0.000	0	59.28	11335.1	11017.7
22-Nov-16 05:47:00	Opened wellhead Wing valve.											
22-Nov-16 05:48:00	Opened wellhead Master valve.											
22-Nov-16 05:50:00	Opened well on 10/64" adjustable choke through Separator to gas flare.											
22-Nov-16 05:55:00	Increased to 12/64" adjustable choke.											
22-Nov-16 06:00:00	Increased to 16/64" adjustable choke.											
22-Nov-16 06:00:00	16	56	28		1012	28	2	0.368	0	59.28	11335.1	11017.7
22-Nov-16 06:05:00	Increased to 20/64" adjustable choke.											
22-Nov-16 06:10:00	Increased to 24/64" adjustable choke.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
22-Nov-16 06:15:00	Increased to 28/64" adjustable choke.											
22-Nov-16 06:15:00	28	98	20		683	28	165	3.043	0	59.30	11335.1	11018.5
22-Nov-16 06:20:00	Increased to 32/64" adjustable choke.											
22-Nov-16 06:25:00	Increased to 36/64" adjustable choke.											
22-Nov-16 06:30:00	Increased to 40/64" adjustable choke.											
22-Nov-16 06:30:00	40	87	20		276	32	285	2.035	141	59.32	11335.8	11019.3
22-Nov-16 06:32:00	Switched to 40/64" fixed choke.											
22-Nov-16 06:34:00	Passed flow through LH sand screen.											
22-Nov-16 06:35:00	Opened Separator oil outler to tank.											
22-Nov-16 06:45:00	40	97	25		247	34	233	1.817	77	59.34	11337.1	11020.1
22-Nov-16 07:00:00	40	97	27		262	35	244	1.957	91	59.36	11338.6	11020.9
22-Nov-16 07:15:00	40	95	27		251	36	234	1.913	99	59.38	11339.5	11021.2
22-Nov-16 07:30:00	40	98	28		246	36	229	1.814	105	59.39	11340.1	11021.6
22-Nov-16 07:45:00	40	96	28		236	36	221	1.837	66	59.41	11341.1	11021.9
22-Nov-16 08:00:00	Gas SG=0.638.											
22-Nov-16 08:00:00	40	94	29		228	36	214	1.774	71	59.43	11341.9	11022.3
22-Nov-16 08:15:00	40	92	29		231	36	220	1.914	24	59.45	11342.6	11022.7
22-Nov-16 08:30:00	40	89	29		220	37	214	1.654	104	59.47	11343.6	11023.2
22-Nov-16 08:45:00	40	88	29		218	37	202	1.657	71	59.49	11344.3	11023.7
22-Nov-16 09:00:00	40	87	30		215	37	200	1.636	78	59.50	11345.2	11024.1
22-Nov-16 09:15:00	40	84	30		208	37	195	1.435	151	59.52	11346.1	11024.5
22-Nov-16 09:30:00	40	83	30		205	38	192	1.573	69	59.54	11346.8	11024.8
22-Nov-16 09:45:00	40	82	30		200	38	185	1.523	61	59.55	11347.7	11025.1
22-Nov-16 10:00:00	40	80	31		200	38	186	1.626	19	59.57	11348.6	11025.5
22-Nov-16 10:15:00	40	78	31		202	39	188	1.418	127	59.58	11349.6	11025.9
22-Nov-16 10:30:00	40	77	32		195	39	181	1.510	52	59.60	11350.5	11026.4
22-Nov-16 10:45:00	MP on 40/64" Fixed Choke.											
22-Nov-16 10:45:00	Lowered 2.0" Orifice plate.											
22-Nov-16 10:45:00	40	76	32		191	40	179	1.226	187	59.61	11351.4	11026.9
22-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
22-Nov-16 11:00:00	40	75	33	1.399	193	40	176	1.520	24	59.63	11352.2	11027.3
22-Nov-16 11:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=61.35mS@29.6degC,Water Density=1010.3kg/m3@30DegC, Dissolved Oxygen=4.2%, Oxidation Reduction Potential=-198.1mV2, Salinity=37000ppm.											
22-Nov-16 11:00:02	Drained VX liquid port, found approx. 1cc of sand.											
22-Nov-16 11:15:00	40	74	33	1.380	191	41	174	1.208	194	59.64	11353.4	11027.7
22-Nov-16 11:30:00	40	74	34	1.358	187	41	169	1.381	65	59.65	11354.7	11028.0
22-Nov-16 11:45:00	40	73	34	1.340	186	42	175	1.339	106	59.67	11355.5	11028.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
22-Nov-16 12:00:00	40	72	35	1.330	185	43	169	1.199	151	59.68	11356.5	11028.7
22-Nov-16 12:15:00	40	72	36	1.316	181	43	166	1.323	71	59.69	11357.6	11029.1
22-Nov-16 12:30:00	40	71	36	1.304	172	43	164	1.148	148	59.71	11358.6	11029.4
22-Nov-16 12:45:00	40	71	36	1.282	177	43	159	1.172	129	59.72	11359.5	11029.7
22-Nov-16 13:00:00	40	71	37	1.274	178	43	164	1.250	91	59.73	11360.5	11030.1
22-Nov-16 13:15:00	40	69	37	1.258	180	44	160	1.348	56	59.75	11361.7	11030.5
22-Nov-16 13:30:00	40	68	37	1.254	172	43	160	1.182	132	59.76	11362.6	11031.0
22-Nov-16 13:45:00	40	68	37	1.235	178	42	159	1.148	159	59.77	11363.5	11031.5
22-Nov-16 14:00:00	40	68	37	1.234	177	43	157	1.165	120	59.78	11364.3	11031.9
22-Nov-16 14:15:00	40	67	37	1.222	173	43	162	1.322	35	59.80	11365.0	11032.3
22-Nov-16 14:30:00	40	67	37	1.215	171	42	158	1.035	174	59.81	11366.0	11032.6
22-Nov-16 14:45:00	40	66	37	1.207	176	42	154	1.176	116	59.82	11367.1	11033.0
22-Nov-16 15:00:00	40	67	36	1.199	170	41	152	1.143	110	59.83	11368.1	11033.3
22-Nov-16 15:15:00	40	67	36	1.198	173	40	148	1.121	119	59.85	11369.0	11033.7
22-Nov-16 15:30:00	Separator pressure sp ked 10psi, lifted 2.0" Orifice plate.											
22-Nov-16 15:30:00	40	75	36		170	40	153	1.188	98	59.86	11370.0	11034.0
22-Nov-16 15:30:00	End of MP.											
22-Nov-16 15:33:37	Adjusted Separator pressure to 65psia.											
22-Nov-16 15:45:00	40	67	35		175	40	150	1.254	65	59.87	11371.1	11034.3
22-Nov-16 16:00:00	40	66	35		169	39	146	1.199	53	59.88	11371.9	11034.7
22-Nov-16 16:13:00	MP on 40/64" Fixed Choke.											
22-Nov-16 16:13:00	Separator stable, lowered 2.0" Orifice plate.											
22-Nov-16 16:15:00	40	66	34		170	39	146	1.315	19	59.90	11373.0	11035.3
22-Nov-16 16:30:00	40	66	34	1.173	168	39	146	1.078	134	59.91	11374.1	11035.8
22-Nov-16 16:45:00	40	65	34	1.161	171	39	152	1.115	122	59.92	11375.1	11036.4
22-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
22-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=61.84mS@27degC,Water Density=1012.6kg/m3@28DegC, Dissolved Oxygen=3.9%, Oxidation Reduction Potential=-195.1mV2, Salinity=40000ppm.											
22-Nov-16 17:00:00	40	65	34	1.165	170	39	151	1.102	129	59.93	11376.2	11037.0
22-Nov-16 17:15:00	40	64	33	1.151	172	38	148	1.235	60	59.94	11377.0	11037.3
22-Nov-16 17:30:00	40	65	33	1.160	175	37	152	1.175	90	59.95	11377.9	11037.7
22-Nov-16 17:45:00	40	65	32	1.157	169	37	150	1.189	77	59.97	11378.6	11038.0
22-Nov-16 18:00:00	40	66	32	1.154	172	37	146	1.043	155	59.98	11379.6	11038.4
22-Nov-16 18:15:00	40	64	31	1.151	169	37	145	1.228	33	59.99	11380.3	11038.9
22-Nov-16 18:30:00	40	64	31	1.150	168	37	148	1.068	128	60.00	11381.4	11039.5
22-Nov-16 18:45:00	40	65	31	1.145	171	37	146	1.208	69	60.02	11382.3	11040.1
22-Nov-16 19:00:00	40	64	31	1.148	170	37	147	1.123	113	60.03	11383.1	11040.7
22-Nov-16 19:15:00	40	64	31	1.138	172	37	145	1.084	143	60.04	11384.1	11041.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
22-Nov-16 19:30:00	40	65	31	1.149	172	37	148	1.225	81	60.05	11385.0	11041.8
22-Nov-16 19:45:00	40	64	31	1.147	160	37	140	1.287	6	60.06	11385.8	11042.4
22-Nov-16 20:00:00	Gas SG=0.642.											
22-Nov-16 20:00:00	40	64	31	1.136	165	37	141	1.098	80	60.08	11386.9	11043.0
22-Nov-16 20:15:00	40	63	31	1.134	167	37	142	1.009	165	60.09	11387.7	11043.4
22-Nov-16 20:30:00	40	63	31	1.133	169	37	149	1.121	91	60.10	11388.5	11043.9
22-Nov-16 20:35:00	STAF was freezing.											
22-Nov-16 20:45:00	40	64	31	1.127	173	37	148	1.310	32	60.11	11389.6	11044.4
22-Nov-16 21:00:00	40	64	31	1.123	171	37	145	1.227	57	60.12	11390.6	11044.8
22-Nov-16 21:15:00	40	63	31	1.123	167	37	141	1.127	89	60.14	11391.6	11045.3
22-Nov-16 21:30:00	40	63	31	1.123	172	37	144	1.176	68	60.15	11392.4	11045.7
22-Nov-16 21:45:00	40	63	31	1.123	169	37	146	1.117	113	60.16	11393.6	11046.2
22-Nov-16 22:00:00	40	63	31	1.123	168	37	142	1.267	28	60.17	11394.4	11046.7
22-Nov-16 22:10:00	Re-started STAF and data acquisition.											
22-Nov-16 22:15:00	40	63	31	1.127	166	37	141	1.071	92	60.18	11395.4	11047.1
22-Nov-16 22:30:00	40	63	31	1.128	166	37	136	0.945	191	60.20	11396.4	11047.6
22-Nov-16 22:45:00	40	63	30	1.129	171	37	144	1.293	36	60.21	11397.6	11048.0
22-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
22-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.42mS@23.7degC,Water Density=1013.3kg/m3@25.2DegC, Dissolved Oxygen=5.2%, Oxidation Reduction Potential=-218.4mV2, Salinity=39000ppm.											
22-Nov-16 23:00:00	40	64	30	1.125	167	37	141	1.247	33	60.22	11398.5	11048.5
22-Nov-16 23:15:00	40	64	30	1.124	170	37	147	1.168	100	60.23	11399.5	11048.9
22-Nov-16 23:30:00	40	64	30	1.126	170	37	140	1.169	40	60.24	11400.3	11049.4
22-Nov-16 23:45:00	40	64	30	1.127	172	37	145	1.131	113	60.26	11401.3	11049.9
23-Nov-16 00:00:00	40	63	30	1.123	168	37	144	1.043	145	60.27	11401.8	11050.3
23-Nov-16 00:15:00	40	64	30	1.123	165	37	135	1.238	22	60.28	11402.7	11050.8
23-Nov-16 00:30:00	40	63	30	1.125	167	37	145	1.162	86	60.29	11403.7	11051.3
23-Nov-16 00:45:00	40	63	30	1.127	165	37	139	1.135	57	60.30	11404.5	11051.7
23-Nov-16 01:00:00	40	63	30	1.119	166	37	137	1.214	41	60.32	11405.3	11052.2
23-Nov-16 01:15:00	40	63	30	1.122	168	37	143	1.338	25	60.33	11406.2	11052.6
23-Nov-16 01:30:00	40	63	30	1.121	168	37	139	1.205	44	60.34	11407.0	11053.1
23-Nov-16 01:45:00	40	63	30	1.121	169	37	143	1.131	107	60.35	11408.0	11053.6
23-Nov-16 02:00:00	Gas SG=0.642.											
23-Nov-16 02:00:00	40	63	30	1.121	166	37	142	1.185	74	60.36	11409.1	11054.0
23-Nov-16 02:15:00	40	63	30	1.119	166	37	143	1.075	100	60.37	11410.1	11054.5
23-Nov-16 02:30:00	40	63	30	1.116	167	37	143	1.073	99	60.39	11411.2	11054.9
23-Nov-16 02:45:00	40	63	30	1.120	165	37	140	1.144	78	60.40	11412.1	11055.4
23-Nov-16 03:00:00	40	63	30	1.117	167	37	138	1.197	39	60.41	11413.0	11055.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
23-Nov-16 03:15:00	40	63	30	1.119	166	37	143	1.346	0	60.42	11413.8	9873.4
23-Nov-16 03:30:00	40	63	30	1.114	164	37	143	1.196	55	60.43	11414.6	8690.9
23-Nov-16 03:45:00	40	62	30	1.118	165	37	140	1.192	51	60.45	11415.4	7508.4
23-Nov-16 04:00:00	40	63	30	1.115	164	37	138	0.984	167	60.46	11416.4	6326.0
23-Nov-16 04:15:00	40	63	30	1.117	164	37	135	1.071	124	60.47	11417.6	7509.6
23-Nov-16 04:30:00	40	63	30	1.113	167	37	137	0.982	162	60.48	11418.6	8693.2
23-Nov-16 04:45:00	40	63	30	1.119	165	37	142	1.174	80	60.49	11419.5	9876.8
23-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
23-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.13mS@23.6degC,Water Density=1013.2kg/m3@25.7DegC, Dissolved Oxygen=5.1%, Oxidation Reduction Potential=-210.3mV2, Salinity=40000ppm.											
23-Nov-16 05:00:00	40	63	30	1.113	165	37	139	1.196	52	60.50	11420.1	11060.5
23-Nov-16 05:15:00	40	62	30	1.114	164	37	137	1.060	120	60.52	11421.1	11060.9
23-Nov-16 05:30:00	40	63	30	1.116								11061.4
23-Nov-16 05:45:00	40	63	30	1.112	167	37	142	1.207	58	60.54	11422.7	11061.8
23-Nov-16 06:00:00	40	63	30	1.114	167	37	140	1.128	100	60.55	11423.6	11062.3
23-Nov-16 06:15:00	40	63	30	1.112	169	37	140	1.193	51	60.56	11424.6	11062.8
23-Nov-16 06:30:00	40	63	30	1.116	165	37	139	1.029	138	60.57	11425.5	11063.2
23-Nov-16 06:45:00	40	63	30	1.114	165	37	135	1.233	27	60.58	11426.4	11063.7
23-Nov-16 07:00:00	40	63	30	1.112	166	37	140	1.183	52	60.60	11427.3	11064.1
23-Nov-16 07:15:00	40	62	30	1.115	165	37	138	1.050	119	60.61	11428.2	11064.5
23-Nov-16 07:25:00	Started raining at well site											
23-Nov-16 07:30:00	40	63	30	1.110	166	36	142	1.273	21	60.62	11428.8	11064.8
23-Nov-16 07:45:00	40	62	29	1.114	168	35	143	1.035	152	60.63	11429.7	11065.2
23-Nov-16 08:00:00	Gas SG=0.638.											
23-Nov-16 08:00:00	40	63	29	1.107	166	35	141	1.092	111	60.64	11430.9	11065.5
23-Nov-16 08:10:00	Pumped 58.8 bbls from tank to pond.											
23-Nov-16 08:15:00	40	63	29	1.113	167	36	138	1.172	52	60.66	11431.9	11065.9
23-Nov-16 08:30:00	40	63	29	1.112	165	34	135	0.986	167	60.67	11432.8	11066.2
23-Nov-16 08:45:00	40	63	29	1.108	167	36	137	1.150	67	60.68	11433.7	11066.5
23-Nov-16 09:00:00	40	63	29	1.111	168	37	141	1.240	15	60.69	11434.6	11066.9
23-Nov-16 09:15:00	40	62	29	1.113	163	37	137	1.093	92	60.70	11435.6	11067.2
23-Nov-16 09:30:00	40	63	29	1.107	166	37	141	1.170	66	60.71	11436.3	11067.6
23-Nov-16 09:45:00	40	63	30	1.116	166	37	140	1.160	63	60.73	11437.1	11067.9
23-Nov-16 10:00:00	40	63	30	1.108	164	37	141	1.194	45	60.74	11438.0	11068.3
23-Nov-16 10:15:00	40	63	30	1.110	165	37	138	1.123	87	60.75	11438.8	11069.0
23-Nov-16 10:30:00	40	64	30	1.109	167	37	137	1.307	0	60.76	11439.6	11069.7
23-Nov-16 10:45:00	40	62	30	1.108	167	38	141	1.233	52	60.77	11440.4	11070.3
23-Nov-16 11:00:00	Took ALS samples from Separator oil line. PH 6.2, EC=61.438m/s @ 27.6deg C, 11071bbls returned.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
23-Nov-16 11:00:00	BSW=100% no solids, H2S=9ppm, CO2=4.5%, Gas SG=0.638.											
23-Nov-16 11:00:00	Attempted to flush VX liquid port, found plugged.											
23-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=60.13mS@25.1degC,Water Density=1013.4kg/m3@27DegC, Dissolved Oxygen=5.0%, Oxidation Reduction Potential=-197mV2, Salinity=40000ppm.											
23-Nov-16 11:00:00	40	63	30	1.108	164	38	138	1.039	136	60.78	11441.5	11071.0
23-Nov-16 11:15:00	40	63	31	1.106	165	38	137	1.137	82	60.80	11442.4	11071.5
23-Nov-16 11:30:00	40	63	31	1.107	165	38	139	1.072	123	60.81	11443.2	11072.0
23-Nov-16 11:45:00	40	63	31	1.108	164	38	136	1.092	99	60.82	11444.2	11072.4
23-Nov-16 12:00:00	Un-plugged VX liquid port and flushed. Found approx. 90cc of sand.											
23-Nov-16 12:00:00	40	63	32	1.106	166	41	142	1.169	58	60.83	11445.3	11072.9
23-Nov-16 12:15:00	40	63	33	1.109	163	42	141	1.133	81	60.84	11446.1	11073.3
23-Nov-16 12:30:00	40	62	34	1.108	168	43	136	1.032	123	60.85	11447.3	11073.8
23-Nov-16 12:45:00	40	62	34	1.112	164	42	140	1.141	70	60.86	11448.4	11074.3
23-Nov-16 13:00:00	40	63	34	1.108	165	39	138	1.090	82	60.88	11449.4	11074.7
23-Nov-16 13:15:00	40	63	33	1.106	165	34	134	1.158	58	60.89	11450.3	11075.2
23-Nov-16 13:30:00	40	64	31	1.108	166	32	134	1.027	134	60.90	11451.3	11075.6
23-Nov-16 13:45:00	40	63	30	1.105	169	36	139	1.049	139	60.91	11452.1	11076.1
23-Nov-16 14:00:00	Gas SG=0.640.											
23-Nov-16 14:00:00	40	64	31	1.107	164	39	138	0.955	172	60.92	11453.2	11076.5
23-Nov-16 14:15:00	40	64	32	1.102	166	41	141	1.265	26	60.93	11454.1	11077.1
23-Nov-16 14:30:00	40	64	33	1.105	165	41	139	1.032	122	60.95	11455.0	11077.7
23-Nov-16 14:45:00	40	63	33	1.105	163	40	138	1.104	79	60.96	11456.0	11078.3
23-Nov-16 15:00:00	40	63	33	1.101	166	39	138	1.104	92	60.97	11457.0	11078.9
23-Nov-16 15:15:00	40	64	34	1.103	164	41	140	1.175	51	60.98	11457.7	11079.4
23-Nov-16 15:30:00	40	63	34	1.103	167	41	139	1.067	111	60.99	11458.7	11080.0
23-Nov-16 15:45:00	40	64	34	1.107	167	41	137	1.007	149	61.00	11459.8	11080.6
23-Nov-16 16:00:00	40	64	34	1.105	162	41	135	1.131	66	61.01	11460.9	11081.2
23-Nov-16 16:15:00	40	64	35	1.104	164	41	137	1.069	80	61.02	11462.1	11081.4
23-Nov-16 16:30:00	40	64	34	1.105	164	39	136	1.088	99	61.04	11463.3	11081.6
23-Nov-16 16:45:00	40	63	34	1.102	161	38	141	1.178	36	61.05	11464.1	11081.8
23-Nov-16 17:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.640.											
23-Nov-16 17:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=61.94mS@26.6degC,Water Density=1012.6kg/m3@27.5DegC, Dissolved Oxygen=4.9%, Oxidation Reduction Potential=-249mV2, Salinity=40000ppm.											
23-Nov-16 17:00:00	40	63	33	1.103	162	38	135	1.001	117	61.06	11465.1	11082.1
23-Nov-16 17:15:00	40	63	33	1.097	165	38	135	1.157	58	61.07	11465.9	11082.5
23-Nov-16 17:30:00	40	63	32	1.099	163	37	132	0.997	135	61.08	11466.6	11083.0
23-Nov-16 17:45:00	40	63	32	1.101	166	37	136	1.216	34	61.09	11467.5	11083.5
23-Nov-16 18:00:00	40	63	32	1.099	165	37	133	1.074	107	61.10	11468.5	11083.9

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
23-Nov-16 18:15:00	40	63	31	1.100	165	36	137	1.232	21	61.12	11469.3	11084.4
23-Nov-16 18:30:00	40	63	31	1.098	164	36	135	1.077	97	61.13	11470.2	11084.8
23-Nov-16 18:45:00	40	63	31	1.095	166	37	137	1.148	67	61.14	11471.0	11085.3
23-Nov-16 19:00:00	40	63	31	1.103	165	37	137	1.007	156	61.15	11472.2	11085.8
23-Nov-16 19:15:00	40	64	31	1.103	165	37	133	0.982	135	61.16	11473.1	11086.3
23-Nov-16 19:30:00	40	63	30	1.100	166	37	137	1.112	82	61.17	11474.2	11086.9
23-Nov-16 19:42:00	Lifted 2.0" Orifice plate.											
23-Nov-16 19:42:00	End of MP.											
23-Nov-16 19:43:00	Switched to 40/64" adjustable choke.											
23-Nov-16 19:44:00	End of FP #4.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #5 EPT Flow - Data

Flow on 128/64" Adjustable Choke

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
23-Nov-16 19:45:00	FP #5 Extended Production Test Flow on 128/64" Adjustable Choke.											
23-Nov-16 19:45:00	Increased to 44/64" adjustable choke.											
23-Nov-16 19:45:00	44	65	30		131	37	197	1.254	78	61.18	11475.1	11087.5
23-Nov-16 19:48:00	Increased to 48/64" adjustable choke.											
23-Nov-16 19:51:00	Increased to 52/64" adjustable choke.											
23-Nov-16 19:55:00	Increased to 56/64" adjustable choke.											
23-Nov-16 19:58:00	Increased to 60/64" adjustable choke.											
23-Nov-16 20:00:00	60	65	31		97	36	260	1.052	164	61.20	11476.2	11088.0
23-Nov-16 20:01:00	Increased to 64/64" adjustable choke.											
23-Nov-16 20:05:00	Increased to 68/64" adjustable choke.											
23-Nov-16 20:10:00	Increased to 76/64" adjustable choke.											
23-Nov-16 20:15:00	72	65	32		93	36	274	1.256	64	61.21	11477.5	11088.7
23-Nov-16 20:16:00	Increased to 84/64" adjustable choke.											
23-Nov-16 20:20:00	Increased to 100/64" adjustable choke.											
23-Nov-16 20:25:00	Increased to 128/64" adjustable choke.											
23-Nov-16 20:30:00	128	64	32		93	36	276	1.154	122	61.22	11479.1	11089.4
23-Nov-16 20:31:00	MP on 128/64" Adjustable Choke.											
23-Nov-16 20:31:00	Lowered 2.0" Orifice plate.											
23-Nov-16 20:45:00	128	64	32	1.135	93	36	278	1.059	204	61.23	11480.7	11090.1
23-Nov-16 21:00:00	128	65	32	1.136	93	36	269	1.030	158	61.24	11482.2	11090.8
23-Nov-16 21:15:00	128	66	32	1.139	94	36	273	1.209	95	61.26	11483.7	11091.2
23-Nov-16 21:30:00	128	64	32	1.137	94	36	274	1.120	149	61.27	11485.0	11091.5
23-Nov-16 21:45:00	128	66	32	1.138	95	36	275	1.327	33	61.28	11486.0	11091.8
23-Nov-16 22:00:00	128	64	32	1.136	93	36	276	1.138	144	61.29	11487.1	11092.2
23-Nov-16 22:15:00	128	65	32	1.136	95	36	276	1.153	139	61.30	11488.8	11092.7
23-Nov-16 22:30:00	128	64	32	1.140	94	36	273	0.972	261	61.32	11490.2	11093.1
23-Nov-16 22:45:00	128	65	32	1.136	93	36	265	1.122	131	61.33	11491.9	11093.6
23-Nov-16 23:00:00	BSW=100% no solids, H2S=7ppm, CO2=3%, Gas SG=0.642.											
23-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=60.08mS@24.9degC,Water Density=1012.8kg/m3@26.9DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-233.4mV2, Salinity=40000ppm.											
23-Nov-16 23:00:00	128	66	32	1.132	93	36	257	1.307	12	61.34	11493.2	11094.0
23-Nov-16 23:15:00	128	65	32	1.133	94	36	269	1.325	24	61.35	11494.8	11094.5
23-Nov-16 23:30:00	128	65	32	1.131	95	36	271	1.177	118	61.36	11496.7	11095.0
23-Nov-16 23:45:00	128	66	32	1.127	97	36	275	1.393	13	61.37	11497.8	11095.4
24-Nov-16 00:00:00	128	66	32	1.134	95	36	259	1.233	84	61.39	11499.3	11095.9
24-Nov-16 00:15:00	128	65	32	1.130	94	36	256	1.035	171	61.40	11500.7	11096.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
24-Nov-16 00:30:00	128	66	32	1.127	94	36	263	1.201	112	61.41	11502.2	11097.0
24-Nov-16 00:45:00	128	66	32	1.130	95	36	256	1.225	62	61.42	11503.3	11097.6
24-Nov-16 01:00:00	128	66	32	1.130	96	36	262	1.107	152	61.43	11504.5	11098.2
24-Nov-16 01:15:00	128	67	32	1.127	96	36	262	1.094	167	61.45	11505.6	11098.7
24-Nov-16 01:30:00	128	66	32	1.130	94	36	251	1.307	8	61.46	11507.1	11099.3
24-Nov-16 01:45:00	128	66	32	1.125	96	36	260	1.359	0	61.47	11508.6	11099.9
24-Nov-16 02:00:00	Gas SG=0.642											
24-Nov-16 02:00:00	128	65	32	1.128	93	36	256	1.192	83	61.48	11510.1	11100.5
24-Nov-16 02:15:00	128	67	32	1.117	98	36	268	1.365	19	61.49	11511.5	11100.9
24-Nov-16 02:30:00	128	67	32	1.134	96	36	254	0.867	302	61.50	11512.9	11101.4
24-Nov-16 02:45:00	128	67	32	1.124	96	36	259	1.185	108	61.52	11513.9	11101.9
24-Nov-16 03:00:00	128	65	32	1.129	93	36	250	1.021	185	61.53	11515.4	11102.3
24-Nov-16 03:15:00	128	66	32	1.118	96	36	255	1.063	134	61.54	11516.6	11102.9
24-Nov-16 03:30:00	128	67	32	1.126	96	36	253	1.030	161	61.55	11518.1	11103.5
24-Nov-16 03:45:00	128	67	32	1.126	96	36	253	1.143	90	61.56	11519.5	11104.0
24-Nov-16 04:00:00	128	66	32	1.130	94	36	249	1.200	69	61.57	11520.7	11104.6
24-Nov-16 04:15:00	128	65	32	1.123	95	36	256	1.112	136	61.59	11522.2	11105.2
24-Nov-16 04:30:00	128	65	32	1.123	97	36	259	1.048	204	61.60	11523.9	11105.8
24-Nov-16 04:45:00	128	66	31	1.121	97	34	253	1.044	163	61.61	11525.3	11106.3
24-Nov-16 05:00:00	BSW=100% no solids, H2S=5ppm, CO2=3%, Gas SG=0.642.											
24-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.92mS@24.2degC,Water Density=1013.2kg/m3@26.2DegC, Dissolved Oxygen=3.2%, Oxidation Reduction Potential=-235.6mV2, Salinity=40000ppm.											
24-Nov-16 05:00:00	128	66	31	1.121	97	35	259	1.190	102	61.62	11526.6	11106.9
24-Nov-16 05:15:00	128	66	31	1.123	97	35	255	0.981	231	61.63	11527.9	11107.4
24-Nov-16 05:30:00	128	66	31	1.118								11107.9
24-Nov-16 05:45:00	128	66	30	1.122	98	35	255	1.139	127	61.65	11530.4	11108.5
24-Nov-16 06:00:00	Discussed with client, informed them that at current choke size we are out of critical flow.											
24-Nov-16 06:00:00	128	65	30	1.122	98	32	257	1.294	57	61.67	11531.8	11109.0
24-Nov-16 06:15:00	128	65	29	1.120	97	30	247	0.969	211	61.68	11532.9	11109.5
24-Nov-16 06:24:00	Lifted 2.0" Orifice plate.											
24-Nov-16 06:24:00	End of MP.											
24-Nov-16 06:25:00	Lowered Separator GasP from 64psia to 38psia.											
24-Nov-16 06:26:00	Upstream choke pressure dropped with Separator pressure, confirming choke ineffective.											
24-Nov-16 06:30:00	128	36	27		74	30	357	1.435	0	61.69	11534.6	11110.0
24-Nov-16 06:45:00	128	36	26		73	30	355	1.115	167	61.70	11536.4	11110.5
24-Nov-16 07:00:00	128	36	26		73	30	349	1.190	112	61.71	11537.9	11111.0
24-Nov-16 07:13:00	End of FP #5.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #6 EPT Flow - Data

Flow on 48/64" Fixed Choke

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
24-Nov-16 07:14:00	FP #6 Extended Production Test Flow on 48/64" Fixed Choke.											
24-Nov-16 07:14:00	Started choking back to 48/64" adjustable choke.											
24-Nov-16 07:14:00	48	36	25		76	31	349	1.079	217	61.73	11539.0	11111.5
24-Nov-16 07:15:00	48	39	25		76	31	348	1.150	163	61.73	11539.1	11111.6
24-Nov-16 07:28:00	Choke at 48/64" adjustable.											
24-Nov-16 07:30:00	48	39	25		110	32	212	0.957	228	61.74	11540.3	11112.1
24-Nov-16 07:45:00	48	40	25		112	32	208	1.129	100	61.75	11541.4	11112.6
24-Nov-16 08:00:00	Gas SG=0.642											
24-Nov-16 08:00:00	48	39	25		112	32	208	1.117	115	61.76	11542.5	11113.1
24-Nov-16 08:15:00	48	40	25		116	33	213	1.065	158	61.77	11543.8	11113.6
24-Nov-16 08:30:00	48	39	25		113	34	206	1.044	141	61.79	11545.1	11114.2
24-Nov-16 08:45:00	48	40	25		112	35	206	1.095	119	61.80	11546.0	11114.7
24-Nov-16 09:00:00	48	40	26		112	36	199	1.249	14	61.81	11546.7	11115.2
24-Nov-16 09:15:00	48	40	27		113	36	201	1.020	128	61.82	11548.1	11115.8
24-Nov-16 09:30:00	Installed 48/64" fixed choke bean.											
24-Nov-16 09:30:00	48	40	27		115	35	209	1.044	163	61.83	11549.2	11116.3
24-Nov-16 09:40:00	Switched to 48/64" fixed choke.											
24-Nov-16 09:45:00	48	39	27		124	35	188	1.208	49	61.85	11550.0	11116.9
24-Nov-16 10:00:00	48	40	27		127	36	184	1.083	135	61.86	11550.9	11117.5
24-Nov-16 10:10:00	MP on 48/64" Fixed Choke.											
24-Nov-16 10:10:00	Lowered 2.0" Orifice plate.											
24-Nov-16 10:15:00	48	39	27	1.098	124	37	183	1.123	87	61.87	11551.7	11118.1
24-Nov-16 10:30:00	48	40	28	1.100	129	38	185	1.176	67	61.88	11552.8	11118.6
24-Nov-16 10:45:00	48	40	29	1.100	125	38	184	0.911	223	61.89	11554.1	11119.2
24-Nov-16 11:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.638.											
24-Nov-16 11:00:00	48	40	29	1.103	128	38	183	1.048	143	61.90	11555.3	11119.8
24-Nov-16 11:00:01	Water sample from VX: pH=6.6, Electrical Conductivity=63.07mS@27.3degC,Water Density=1012kg/m3@28DegC, Dissolved Oxygen=3.6%, Oxidation Reduction Potential=-183.3mV2, Salinity=40000ppm.											
24-Nov-16 11:10:00	Pumped 55.5 bbls from tank to pond.											
24-Nov-16 11:12:00	Flushed VX liquid port, found 230cc of sand.											
24-Nov-16 11:15:00	48	40	30	1.105	122	38	180	1.109	76	61.91	11556.3	11120.3
24-Nov-16 11:30:00	48	40	30	1.102	125	39	181	1.155	64	61.92	11557.1	11120.7
24-Nov-16 11:45:00	48	40	31	1.104	123	40	184	1.170	53	61.93	11558.2	11121.2
24-Nov-16 12:00:00	48	39	31	1.099	128	39	182	1.089	119	61.95	11559.2	11121.6
24-Nov-16 12:15:00	48	40	31	1.104	125	39	189	0.937	228	61.96	11560.4	11122.1
24-Nov-16 12:30:00	48	40	32	1.111	124	40	177	1.130	85	61.97	11561.3	11122.5
24-Nov-16 12:45:00	48	40	32	1.101	125	41	184	1.053	129	61.98	11562.8	11123.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
24-Nov-16 13:00:00	48	40	33	1.104	124	41	180	0.921	215	61.99	11564.1	11123.5
24-Nov-16 13:15:00	48	40	33	1.110	123	41	180	1.100	83	62.00	11565.3	11123.9
24-Nov-16 13:30:00	48	40	34	1.106	123	42	180	0.938	184	62.01	11566.7	11124.4
24-Nov-16 13:45:00	48	41	34	1.102	127	41	183	1.211	46	62.02	11567.8	11124.9
24-Nov-16 14:00:00	Gas SG=0.640.											
24-Nov-16 14:00:00	48	40	34	1.104	124	41	180	1.072	120	62.03	11569.1	11125.3
24-Nov-16 14:15:00	48	41	34	1.099	127	42	185	1.158	78	62.05	11570.3	11125.8
24-Nov-16 14:30:00	48	40	34	1.104	124	42	179	1.033	139	62.06	11571.6	11126.2
24-Nov-16 14:45:00	48	40	34	1.099	125	41	185	1.293	4	62.07	11572.7	11126.7
24-Nov-16 15:00:00	48	40	34	1.104	123	41	178	0.953	175	62.08	11573.9	11127.2
24-Nov-16 15:15:00	48	40	34	1.099	129	41	185	1.227	56	62.09	11575.1	11127.6
24-Nov-16 15:30:00	48	40	35	1.108	125	41	189	1.067	142	62.10	11576.4	11128.1
24-Nov-16 15:45:00	48	41	35	1.101	125	42	178	0.936	206	62.11	11577.4	11128.5
24-Nov-16 16:00:00	48	40	35	1.102	125	41	189	1.164	79	62.12	11578.4	11129.0
24-Nov-16 16:15:00	48	41	34	1.104	126	39	179	1.034	136	62.14	11579.6	11129.2
24-Nov-16 16:30:00	48	41	33	1.103	125	39	175	1.165	46	62.15	11580.9	11129.5
24-Nov-16 16:45:00	48	40	33	1.101	129	38	184	1.095	119	62.16	11581.8	11129.7
24-Nov-16 17:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.642.											
24-Nov-16 17:00:00	48	41	32	1.107	128	37	179	0.948	176	62.17	11582.6	11129.9
24-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=65.24mS@28.4degC,Water Density=1012.4kg/m3@30DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-216mV2, Salinity=41000ppm.											
24-Nov-16 17:15:00	48	40	31	1.103	128	37	183	1.296	34	62.18	11583.5	11130.5
24-Nov-16 17:30:00	48	40	31	1.099	128	37	184	1.019	168	62.19	11584.7	11131.1
24-Nov-16 17:45:00	48	40	31	1.097	129	37	182	1.077	119	62.20	11585.9	11131.6
24-Nov-16 18:00:00	48	41	30	1.096	130	37	178	1.114	113	62.21	11587.0	11132.2
24-Nov-16 18:15:00	48	40	30	1.101	128	37	180	1.096	112	62.23	11588.1	11132.6
24-Nov-16 18:30:00	48	41	30	1.094	134	37	185	1.077	149	62.24	11589.3	11132.9
24-Nov-16 18:45:00	48	40	30	1.105	128	37	177	1.107	86	62.25	11590.3	11133.2
24-Nov-16 19:00:00	48	40	30	1.095	126	37	178	1.025	142	62.26	11591.4	11133.6
24-Nov-16 19:15:00	48	40	30	1.099	126	37	175	1.021	125	62.27	11592.6	11133.9
24-Nov-16 19:30:00	48	40	30	1.096	129	37	180	1.050	143	62.28	11593.6	11134.3
24-Nov-16 19:45:00	48	40	29	1.099	128	37	175	1.081	86	62.29	11594.5	11134.6
24-Nov-16 20:00:00	Gas SG=0.642											
24-Nov-16 20:00:00	48	40	29	1.101	129	37	177	1.048	140	62.31	11595.8	11135.0
24-Nov-16 20:15:00	48	40	29	1.099	127	37	176	0.854	267	62.32	11597.3	11135.5
24-Nov-16 20:30:00	48	40	29	1.100	128	36	178	1.020	145	62.33	11598.5	11136.1
24-Nov-16 20:45:00	48	40	29	1.098	129	36	176	1.182	61	62.34	11599.6	11136.7
24-Nov-16 21:00:00	48	40	29	1.097	129	37	177	0.989	169	62.35	11600.7	11137.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
24-Nov-16 21:15:00	48	40	29	1.097	128	37	177	1.140	84	62.36	11601.9	11137.8
24-Nov-16 21:30:00	48	39	29	1.100	128	37	184	1.072	134	62.37	11602.8	11138.4
24-Nov-16 21:45:00	48	40	29	1.098	131	37	180	1.275	16	62.39	11603.8	11139.0
24-Nov-16 22:00:00	48	40	29	1.100	126	37	176	1.167	41	62.40	11605.0	11139.6
24-Nov-16 22:15:00	48	40	29	1.097	132	37	181	1.145	84	62.41	11606.3	11140.0
24-Nov-16 22:30:00	48	40	29	1.102	128	37	174	1.143	67	62.42	11607.3	11140.5
24-Nov-16 22:45:00	48	40	29	1.100	128	36	180	1.221	25	62.43	11608.6	11141.0
24-Nov-16 23:00:00	BSW=100% no solids, H2S=9ppm, CO2=4%, Gas SG=0.642.											
24-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.87mS@22degC,Water Density=1014.7kg/m3@24.3DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-215.5mV2, Salinity=42000ppm.											
24-Nov-16 23:00:00	48	41	29	1.098	131	36	178	1.124	74	62.44	11609.3	11141.4
24-Nov-16 23:15:00	48	40	29	1.103	127	37	179	1.006	149	62.45	11610.4	11141.9
24-Nov-16 23:30:00	48	40	29	1.095	131	37	179	1.169	73	62.47	11611.6	11142.3
24-Nov-16 23:45:00	48	40	29	1.104	127	37	173	1.071	87	62.48	11612.7	11142.8
25-Nov-16 00:00:00	48	40	28	1.097	128	37	176	1.235	26	62.49	11613.6	11143.3
25-Nov-16 00:15:00	48	40	29	1.099	127	37	176	1.200	32	62.50	11614.6	11143.7
25-Nov-16 00:30:00	48	40	29	1.097	133	37	179	1.301	22	62.51	11615.8	11144.2
25-Nov-16 00:45:00	48	40	29	1.101	132	37	184	1.165	86	62.52	11616.6	11144.6
25-Nov-16 01:00:00	48	40	29	1.099	130	37	177	1.109	99	62.54	11617.6	11145.1
25-Nov-16 01:15:00	48	40	28	1.101	128	36	180	1.193	63	62.55	11618.4	11145.6
25-Nov-16 01:30:00	48	40	28	1.100	128	36	173	1.060	114	62.56	11619.4	11146.0
25-Nov-16 01:45:00	48	40	28	1.097	130	36	180	1.122	101	62.57	11620.4	11146.5
25-Nov-16 02:00:00	Gas SG=0.642											
25-Nov-16 02:00:00	48	40	28	1.095	132	36	178	1.292	8	62.58	11621.3	11146.9
25-Nov-16 02:15:00	48	40	28	1.097	130	36	178	1.055	136	62.59	11622.6	11147.4
25-Nov-16 02:30:00	48	40	28	1.097	133	36	182	1.093	125	62.61	11623.6	11147.9
25-Nov-16 02:45:00	48	40	28	1.102	131	36	177	1.229	64	62.62	11624.2	11148.3
25-Nov-16 03:00:00	48	40	28	1.098	132	36	180	1.007	147	62.63	11625.4	11148.8
25-Nov-16 03:15:00	48	40	28	1.101	127	36	175	1.222	27	62.64	11626.3	11149.2
25-Nov-16 03:30:00	48	40	28	1.097	128	36	175	1.104	89	62.65	11627.0	11149.7
25-Nov-16 03:45:00	48	40	28	1.096	129	36	174	1.204	51	62.66	11628.0	11150.2
25-Nov-16 04:00:00	48	40	28	1.099	130	36	178	1.079	98	62.68	11629.0	11150.6
25-Nov-16 04:15:00	48	40	28	1.104	130	36	177	1.054	128	62.69	11629.9	11151.1
25-Nov-16 04:30:00	48	40	28	1.100	127	36	177	1.268	5	62.70	11630.9	11151.5
25-Nov-16 04:45:00	48	40	28	1.097	127	36	173	1.136	92	62.71	11632.0	11152.0
25-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
25-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.32mS@22.1degC,Water Density=1014.3kg/m3@24.1DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-205.7mV2, Salinity=41000ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
25-Nov-16 05:00:00	48	40	28	1.097	130	36	176	0.984	119	62.72	11633.1	11152.5
25-Nov-16 05:15:00	48	40	28	1.102	127	36	178	0.940	202	62.73	11634.1	11152.9
25-Nov-16 05:30:00	48	40	28	1.098								11153.4
25-Nov-16 05:45:00	48	40	28	1.096	129	36	179	1.104	108	62.76	11636.0	11153.8
25-Nov-16 06:00:00	48	40	28	1.098	127	36	173	1.167	65	62.77	11637.1	11154.3
25-Nov-16 06:15:00	48	40	28	1.100	128	36	177	1.059	123	62.78	11638.3	11154.9
25-Nov-16 06:30:00	48	40	28	1.100	129	36	177	1.254	30	62.79	11639.1	11155.4
25-Nov-16 06:45:00	48	40	28	1.096	127	36	171	0.883	224	62.80	11640.3	11156.0
25-Nov-16 07:00:00	48	40	28	1.100	128	36	173	1.030	141	62.81	11641.2	11156.6
25-Nov-16 07:15:00	48	40	28	1.097	128	37	173	1.102	70	62.83	11642.4	11156.9
25-Nov-16 07:30:00	48	40	28	1.096	127	37	176	1.175	52	62.84	11643.4	11157.3
25-Nov-16 07:45:00	48	40	29	1.101	128	37	174	0.956	182	62.85	11644.7	11157.6
25-Nov-16 08:00:00	Gas SG=0.638.											
25-Nov-16 08:00:00	48	40	29	1.098	129	37	176	1.035	144	62.86	11646.1	11158.0
25-Nov-16 08:15:00	48	40	29	1.103	128	37	177	1.135	76	62.87	11647.4	11158.5
25-Nov-16 08:30:00	48	40	29	1.097	128	37	177	1.057	113	62.88	11648.6	11159.1
25-Nov-16 08:45:00	48	40	29	1.103	128	38	177	1.230	22	62.89	11649.5	11159.7
25-Nov-16 09:00:00	48	40	29	1.098	129	38	175	0.975	182	62.90	11650.4	11160.3
25-Nov-16 09:15:00	48	40	30	1.101	131	38	179	0.973	185	62.92	11651.2	11160.7
25-Nov-16 09:30:00	48	40	30	1.105	128	39	175	1.116	81	62.93	11652.4	11161.2
25-Nov-16 09:45:00	48	40	30	1.100	129	39	179	1.099	113	62.94	11653.6	11161.7
25-Nov-16 10:00:00	48	40	31	1.100	126	40	176	1.153	70	62.95	11655.0	11162.1
25-Nov-16 10:15:00	48	41	32	1.102	126	41	177	1.131	56	62.96	11656.2	11162.5
25-Nov-16 10:30:00	48	40	32	1.107	128	42	183	1.030	138	62.97	11657.0	11162.8
25-Nov-16 10:45:00	48	40	33	1.105	124	43	174	1.083	79	62.98	11658.2	11163.1
25-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
25-Nov-16 11:00:00	48	40	34	1.102	127	42	184	1.054	131	62.99	11659.3	11163.5
25-Nov-16 11:00:01	Water sample from VX: pH=6.6, Electrical Conductivity=68.03mS@30.5degC,Water Density=1012kg/m3@31DegC, Dissolved Oxygen=1.9%, Oxidation Reduction Potential=-226mV2, Salinity=41000ppm.											
25-Nov-16 11:10:00	Flushed VX liquid port, found 10cc of sand.											
25-Nov-16 11:15:00	48	41	34	1.107	125	43	181	1.059	146	63.01	11660.4	11164.0
25-Nov-16 11:30:00	48	40	35	1.100	122	43	171	1.039	92	63.02	11661.5	11164.4
25-Nov-16 11:45:00	48	40	35	1.099	127	43	179	1.063	122	63.03	11662.7	11164.9
25-Nov-16 12:00:00	48	40	35	1.096	127	43	182	0.938	214	63.04	11663.5	11165.3
25-Nov-16 12:15:00	48	40	35	1.102	126	42	182	1.078	135	63.05	11664.5	11165.7
25-Nov-16 12:30:00	48	41	35	1.097	127	41	176	0.940	186	63.06	11665.6	11166.0
25-Nov-16 12:45:00	48	40	35	1.094	128	41	179	0.944	178	63.07	11666.6	11166.4
25-Nov-16 13:00:00	48	41	35	1.097	125	42	182	1.147	71	63.08	11667.4	11166.7

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
25-Nov-16 13:15:00	48	41	35	1.099	128	43	176	1.131	74	63.09	11668.6	11167.4
25-Nov-16 13:30:00	48	40	35	1.096	126	41	178	0.913	215	63.10	11669.9	11168.1
25-Nov-16 13:45:00	48	40	35	1.098	126	40	176	1.078	97	63.11	11671.1	11168.8
25-Nov-16 14:00:00	Gas SG=0.640.											
25-Nov-16 14:00:00	48	40	34	1.099	123	40	172	0.981	152	63.13	11672.0	11169.5
25-Nov-16 14:15:00	48	40	34	1.093	126	40	174	0.937	171	63.14	11673.4	11169.8
25-Nov-16 14:30:00	48	40	34	1.094	127	41	177	1.070	101	63.15	11674.4	11170.2
25-Nov-16 14:45:00	48	40	35	1.097	128	42	182	1.148	96	63.16	11675.7	11170.5
25-Nov-16 15:00:00	48	41	35	1.094	129	41	180	1.102	114	63.17	11676.8	11170.9
25-Nov-16 15:15:00	48	40	34	1.099	125	41	177	0.965	165	63.18	11678.1	11171.2
25-Nov-16 15:30:00	48	41	35	1.094	127	42	179	1.001	128	63.19	11679.1	11171.5
25-Nov-16 15:45:00	48	40	35	1.104	124	43	178	1.187	33	63.20	11680.1	11171.9
25-Nov-16 16:00:00	48	41	36	1.094	128	43	181	1.186	61	63.22	11681.1	11172.2
25-Nov-16 16:15:00	48	41	36	1.095	130	43	178	1.055	125	63.23	11682.3	11172.8
25-Nov-16 16:30:00	48	41	36	1.097	126	41	180	1.194	29	63.24	11683.4	11173.4
25-Nov-16 16:45:00	48	41	36	1.093	129	42	179	1.008	150	63.25	11684.5	11174.0
25-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
25-Nov-16 17:00:00	48	41	36	1.096	125	42	181	0.985	166	63.26	11685.5	11174.5
25-Nov-16 17:00:01	Water sample from VX: pH=6.5, Electrical Conductivity=68.19mS@31.9degC,Water Density=1010.5kg/m3@32.5DegC, Dissolved Oxygen=3.4%, Oxidation Reduction Potential=-231mV2, Salinity=40000ppm.											
25-Nov-16 17:10:00	Pumped 52 bbls from tank to pond.											
25-Nov-16 17:15:00	48	41	36	1.090	127	41	177	0.985	164	63.27	11686.3	11174.9
25-Nov-16 17:30:00	48	41	35	1.093	129	40	179	1.129	85	63.28	11687.7	11175.2
25-Nov-16 17:45:00	48	41	35	1.097	125	40	173	1.070	112	63.29	11689.2	11175.6
25-Nov-16 18:00:00	48	41	35	1.091	126	40	173	1.128	63	63.30	11690.3	11175.9
25-Nov-16 18:15:00	48	41	34	1.094	123	39	170	0.964	159	63.31	11691.4	11176.3
25-Nov-16 18:30:00	48	41	34	1.085	126	39	179	1.064	111	63.32	11692.4	11176.6
25-Nov-16 18:45:00	48	41	33	1.094	128	39	174	1.007	140	63.34	11693.4	11176.9
25-Nov-16 19:00:00	48	41	33	1.089	129	38	179	1.151	98	63.35	11694.7	11177.3
25-Nov-16 19:15:00	48	40	32	1.096	125	38	171	1.061	110	63.36	11695.8	11177.6
25-Nov-16 19:30:00	48	41	32	1.091	125	38	171	1.128	41	63.37	11696.8	11178.0
25-Nov-16 19:45:00	48	41	31	1.093	127	38	175	0.904	216	63.38	11698.0	11178.3
25-Nov-16 20:00:00	Gas SG=0.642.											
25-Nov-16 20:00:00	48	41	31	1.093	126	37	171	1.020	132	63.39	11699.0	11178.7
25-Nov-16 20:15:00	48	40	31	1.090	127	37	175	0.958	170	63.40	11700.2	11179.0
25-Nov-16 20:30:00	48	40	31	1.085	131	37	179	1.150	71	63.41	11701.1	11179.4
25-Nov-16 20:45:00	48	41	30	1.092	129	37	175	1.030	140	63.42	11702.4	11179.7
25-Nov-16 21:00:00	48	40	30	1.091	128	37	170	1.129	70	63.43	11703.3	11180.0

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
25-Nov-16 21:15:00	48	40	30	1.089	130	37	181	1.085	94	63.45	11704.3	11180.6
25-Nov-16 21:30:00	48	40	30	1.093	129	37	176	1.060	144	63.46	11705.4	11181.2
25-Nov-16 21:45:00	48	41	30	1.095	127	37	171	1.039	100	63.47	11706.6	11181.8
25-Nov-16 22:00:00	48	40	30	1.083	127	37	180	1.255	24	63.48	11707.6	11182.4
25-Nov-16 22:15:00	48	41	30	1.088	131	37	174	1.037	133	63.49	11708.8	11182.9
25-Nov-16 22:30:00	48	40	30	1.091	130	37	175	1.077	127	63.50	11709.7	11183.5
25-Nov-16 22:45:00	48	40	30	1.090	131	37	176	1.021	143	63.51	11710.7	11184.1
25-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
25-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=60.59mS@24.5degC,Water Density=1013.1kg/m3@26.6DegC, Dissolved Oxygen=5.1%, Oxidation Reduction Potential=-229.1mV2, Salinity=41000ppm.											
25-Nov-16 23:00:00	48	40	30	1.089	128	37	176	1.181	53	63.53	11711.6	11184.7
25-Nov-16 23:15:00	48	40	30	1.088	127	37	170	1.115	60	63.54	11712.5	11185.1
25-Nov-16 23:30:00	48	41	29	1.091	128	37	170	1.033	144	63.55	11713.6	11185.6
25-Nov-16 23:45:00	48	40	29	1.086	131	37	177	1.088	117	63.56	11714.7	11186.0
26-Nov-16 00:00:00	48	41	29	1.089	134	37	178	1.058	133	63.57	11715.6	11186.5
26-Nov-16 00:15:00	48	40	29	1.091	128	36	174	1.188	49	63.58	11716.8	11187.0
26-Nov-16 00:30:00	48	40	29	1.086	128	36	173	1.186	41	63.59	11717.7	11187.4
26-Nov-16 00:45:00	48	40	29	1.087	129	36	171	1.096	78	63.61	11718.5	11187.9
26-Nov-16 01:00:00	48	40	29	1.083	133	36	179	1.062	133	63.62	11719.6	11188.3
26-Nov-16 01:15:00	48	40	29	1.090	130	36	171	0.993	149	63.63	11720.5	11188.8
26-Nov-16 01:30:00	48	40	29	1.090	129	36	171	1.011	159	63.64	11721.6	11189.3
26-Nov-16 01:45:00	48	40	29	1.085	131	36	172	1.101	77	63.65	11722.5	11189.7
26-Nov-16 02:00:00	Gas SG=0.642.											
26-Nov-16 02:00:00	48	40	29	1.086	130	37	172	1.137	68	63.66	11723.6	11190.2
26-Nov-16 02:15:00	48	40	29	1.087	130	36	175	1.175	64	63.67	11724.5	11190.6
26-Nov-16 02:30:00	48	40	29	1.093	131	36	178	1.226	50	63.69	11725.6	11191.1
26-Nov-16 02:45:00	48	40	29	1.090	131	37	175	0.999	169	63.70	11726.9	11191.6
26-Nov-16 03:00:00	48	40	29	1.090	133	36	177	1.049	125	63.71	11728.0	11192.0
26-Nov-16 03:15:00	48	40	28	1.087	132	36	175	1.034	140	63.72	11729.0	11192.5
26-Nov-16 03:30:00	48	41	28	1.098	131	36	169	1.112	93	63.73	11730.0	11192.9
26-Nov-16 03:45:00	48	40	28	1.083	129	36	169	1.092	102	63.74	11730.8	11193.4
26-Nov-16 04:00:00	48	40	28	1.092	133	36	176	1.095	113	63.75	11731.9	11193.9
26-Nov-16 04:15:00	48	40	28	1.086	132	36	174	0.987	184	63.77	11733.0	11194.3
26-Nov-16 04:30:00	48	40	28	1.094	130	36	175	0.924	207	63.78	11734.0	11194.8
26-Nov-16 04:45:00	48	40	28	1.083	131	36	171	1.129	81	63.79	11735.1	11195.2
26-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.644.											
26-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=58.17mS@24.1degC,Water Density=1012.2kg/m3@26.3DegC, Dissolved Oxygen=4.6%, Oxidation Reduction Potential=-235.7mV2, Salinity=40000ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
26-Nov-16 05:00:00	48	40	28	1.092	132	37	173	1.184	55	63.80	11736.0	11195.7
26-Nov-16 05:15:00	48	40	28	1.085	130	36	174	0.936	206	63.81	11737.2	11196.4
26-Nov-16 05:30:00	48	40	28	1.093								11197.1
26-Nov-16 05:45:00	48	40	28	1.085	133	36	174	1.298	0	63.83	11738.8	11197.8
26-Nov-16 06:00:00	48	40	28	1.085	133	36	175	1.199	46	63.84	11739.8	11198.5
26-Nov-16 06:15:00	48	41	28	1.088	130	36	170	1.013	136	63.86	11740.9	11198.8
26-Nov-16 06:30:00	48	40	28	1.091	131	36	173	1.109	69	63.87	11741.7	11199.1
26-Nov-16 06:45:00	48	40	28	1.085	131	36	174	1.096	33	63.88	11742.5	11199.5
26-Nov-16 07:00:00	48	40	28	1.088	129	37	170	1.053	112	63.89	11743.8	11199.8
26-Nov-16 07:15:00	48	40	28	1.087	131	37	174	0.988	171	63.90	11745.0	11200.3
26-Nov-16 07:30:00	48	40	29	1.088	130	37	175	1.181	36	63.91	11745.9	11200.8
26-Nov-16 07:45:00	48	41	29	1.090	129	37	168	1.207	31	63.92	11746.7	11201.2
26-Nov-16 08:00:00	Gas SG=0.638.											
26-Nov-16 08:00:00	48	40	29	1.085	130	38	175	1.101	99	63.93	11747.7	11201.7
26-Nov-16 08:15:00	48	40	30	1.094	129	38	175	1.096	68	63.95	11748.7	11202.0
26-Nov-16 08:30:00	48	41	30	1.096	130	38	173	1.012	163	63.96	11749.9	11202.4
26-Nov-16 08:45:00	48	40	30	1.096	129	38	171	0.977	171	63.97	11751.1	11202.7
26-Nov-16 09:00:00	48	40	31	1.090	130	39	177	1.190	56	63.98	11752.1	11203.0
26-Nov-16 09:15:00	48	41	31	1.097	127	40	167	1.161	42	63.99	11753.4	11203.6
26-Nov-16 09:30:00	48	40	31	1.096	128	39	172	1.053	119	64.00	11754.6	11204.2
26-Nov-16 09:45:00	48	40	32	1.100	127	39	171	1.128	73	64.01	11755.9	11204.8
26-Nov-16 10:00:00	48	40	32	1.090	126	40	173	0.904	202	64.02	11757.2	11205.4
26-Nov-16 10:15:00	48	40	32	1.097	129	40	177	1.191	40	64.03	11758.3	11205.7
26-Nov-16 10:30:00	48	40	32	1.090	129	40	175	0.975	173	64.05	11759.3	11206.0
26-Nov-16 10:45:00	48	41	33	1.096	129	41	172	1.018	127	64.06	11760.5	11206.4
26-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.640.											
26-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.36mS@30.5degC,Water Density=1012.2kg/m3@31DegC, Dissolved Oxygen=2.7%, Oxidation Reduction Potential=-205.3mV2, Salinity=41000ppm.											
26-Nov-16 11:00:00	48	40	34	1.093	126	43	173	1.020	130	64.07	11761.5	11206.7
26-Nov-16 11:00:01	Flushed VX liquid port, found 5cc of sand.											
26-Nov-16 11:10:00	Took ALS sample bottles from Separator oil line, pH=6.3, EC=66.7m/S@29.6deg C, 11207 bbls returned.											
26-Nov-16 11:15:00	48	41	34	1.088	129	43	178	0.952	183	64.08	11762.6	11207.1
26-Nov-16 11:30:00	48	40	35	1.096	125	43	171	0.928	159	64.09	11763.6	11207.4
26-Nov-16 11:45:00	48	41	35	1.095	126	42	173	1.278	0	64.10	11764.8	11207.8
26-Nov-16 12:00:00	48	41	35	1.092	128	43	176	1.066	115	64.11	11766.2	11208.1
26-Nov-16 12:15:00	48	41	36	1.092	125	43	177	1.153	53	64.12	11767.2	11208.6
26-Nov-16 12:30:00	48	41	36	1.095	126	44	174	1.176	41	64.13	11768.3	11209.0
26-Nov-16 12:45:00	48	41	36	1.093	126	44	173	1.086	92	64.14	11769.6	11209.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
26-Nov-16 13:00:00	48	41	37	1.093	124	45	176	1.113	70	64.15	11771.0	11210.0
26-Nov-16 13:15:00	48	40	37	1.096	126	45	179	1.004	147	64.17	11772.1	11210.3
26-Nov-16 13:30:00	48	41	37	1.091	126	45	180	1.080	104	64.18	11773.4	11210.6
26-Nov-16 13:45:00	48	41	38	1.102	126	45	172	0.898	185	64.19	11774.7	11211.0
26-Nov-16 14:00:00	Gas SG=0.638.											
26-Nov-16 14:00:00	48	41	38	1.095	125	45	177	0.934	195	64.20	11775.9	11211.3
26-Nov-16 14:15:00	48	41	38	1.100	126	44	174	1.063	102	64.21	11777.1	11211.7
26-Nov-16 14:30:00	48	41	38	1.096	125	44	173	0.990	134	64.22	11778.3	11212.0
26-Nov-16 14:45:00	48	41	38	1.097	123	44	169	1.134	39	64.23	11779.4	11212.4
26-Nov-16 15:00:00	48	42	38	1.096	125	44	177	0.884	216	64.24	11780.5	11212.7
26-Nov-16 15:15:00	48	41	38	1.100	126	44	175	1.023	115	64.25	11781.5	11213.3
26-Nov-16 15:30:00	48	42	38	1.092	127	44	176	1.071	89	64.26	11783.1	11213.9
26-Nov-16 15:45:00	48	43	38	1.100	129	44	177	1.002	144	64.27	11784.0	11214.4
26-Nov-16 16:00:00	48	42	38	1.102	124	44	172	0.876	197	64.29	11785.4	11215.0
26-Nov-16 16:15:00	48	42	38	1.093	125	44	172	0.919	197	64.30	11786.8	11215.5
26-Nov-16 16:30:00	48	42	38	1.090	129	43	181	1.033	137	64.31	11788.2	11215.9
26-Nov-16 16:45:00	48	42	38	1.095	126	43	175	1.252	5	64.32	11788.8	11216.4
26-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.											
26-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.68mS@32degC,Water Density=1010.7kg/m3@32.7DegC, Dissolved Oxygen=3.1%, Oxidation Reduction Potential=-200.3mV2, Salinity=40000ppm.											
26-Nov-16 17:00:00	48	42	38	1.094	127	43	174	0.951	187	64.33	11789.9	11216.9
26-Nov-16 17:15:00	48	42	37	1.084	130	42	180	1.160	71	64.34	11790.7	11217.3
26-Nov-16 17:30:00	48	42	37	1.090	128	41	176	1.018	146	64.35	11791.8	11217.8
26-Nov-16 17:45:00	48	42	36	1.088	130	40	177	1.007	149	64.36	11792.8	11218.2
26-Nov-16 18:00:00	48	42	36	1.091	123	40	166	1.057	76	64.37	11794.0	11218.7
26-Nov-16 18:15:00	48	42	36	1.083	126	40	172	1.101	95	64.38	11795.5	11219.2
26-Nov-16 18:30:00	48	42	35	1.085	125	39	167	1.005	112	64.39	11796.7	11219.6
26-Nov-16 18:45:00	48	42	35	1.087	128	39	172	1.053	100	64.40	11798.0	11220.1
26-Nov-16 19:00:00	48	42	34	1.083	126	39	170	1.091	86	64.41	11799.1	11220.5
26-Nov-16 19:15:00	48	41	33	1.082	126	38	166	0.974	138	64.42	11800.3	11221.0
26-Nov-16 19:30:00	48	42	33	1.084	130	38	175	1.035	126	64.43	11801.4	11221.5
26-Nov-16 19:45:00	48	41	32	1.088	131	38	173	1.082	106	64.45	11802.4	11221.9
26-Nov-16 20:00:00	Gas SG=0.642.											
26-Nov-16 20:00:00	48	41	32	1.088	126	37	165	1.116	58	64.46	11803.3	11222.4
26-Nov-16 20:15:00	48	41	31	1.085	133	37	176	1.254	20	64.47	11804.2	11222.8
26-Nov-16 20:30:00	48	41	31	1.090	130	37	173	1.054	100	64.48	11805.3	11223.3
26-Nov-16 20:45:00	48	41	30	1.085	133	37	178	1.203	56	64.49	11806.2	11223.8
26-Nov-16 21:00:00	48	41	30	1.086	129	37	169	1.082	77	64.50	11807.1	11224.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
26-Nov-16 21:15:00	48	41	30	1.084	131	37	177	0.926	222	64.51	11808.4	11224.6
26-Nov-16 21:30:00	48	41	30	1.087	130	37	169	1.136	66	64.53	11809.5	11224.9
26-Nov-16 21:45:00	48	40	30	1.087	132	37	175	1.082	115	64.54	11810.5	11225.2
26-Nov-16 22:00:00	48	41	30	1.089	129	36	171	1.095	86	64.55	11811.6	11225.6
26-Nov-16 22:15:00	48	40	29	1.080	130	36	174	0.977	168	64.56	11812.8	11226.0
26-Nov-16 22:30:00	48	40	29	1.085	131	36	177	1.163	67	64.57	11813.7	11226.5
26-Nov-16 22:45:00	48	40	29	1.084	130	36	169	1.004	149	64.58	11815.0	11227.0
26-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.											
26-Nov-16 23:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=59.89mS@23.1degC,Water Density=1013.7kg/m3@25.4DegC, Dissolved Oxygen=4.4%, Oxidation Reduction Potential=-225.9mV2, Salinity=41000ppm.											
26-Nov-16 23:00:00	48	40	29	1.084	129	36	172	1.097	83	64.59	11815.8	11227.4
26-Nov-16 23:15:00	48	40	29	1.086	132	36	176	1.121	104	64.60	11816.9	11227.9
26-Nov-16 23:30:00	48	40	29	1.085	128	36	169	0.997	152	64.62	11818.0	11228.4
26-Nov-16 23:45:00	48	41	29	1.084	131	36	169	1.017	134	64.63	11819.2	11228.8
27-Nov-16 00:00:00	48	40	29	1.088	132	36	173	0.964	188	64.64	11820.4	11229.3
27-Nov-16 00:15:00	48	40	29	1.085	131	36	173	1.142	78	64.65	11821.6	11229.7
27-Nov-16 00:30:00	48	40	28	1.089	131	36	172	1.036	128	64.66	11822.5	11230.2
27-Nov-16 00:45:00	48	40	28	1.081	131	36	170	1.140	71	64.67	11823.4	11230.7
27-Nov-16 01:00:00	48	41	28	1.089	131	36	174	1.233	25	64.68	11824.2	11231.1
27-Nov-16 01:15:00	48	40	28	1.082	134	36	175	1.101	128	64.70	11825.5	11231.6
27-Nov-16 01:30:00	48	41	28	1.088	131	36	168	1.010	143	64.71	11826.6	11232.0
27-Nov-16 01:45:00	48	40	28	1.084	132	36	170	1.146	76	64.72	11827.7	11232.5
27-Nov-16 02:00:00	Gas SG=0.642.											
27-Nov-16 02:00:00	48	40	28	1.088	130	36	167	1.118	72	64.73	11828.4	11233.0
27-Nov-16 02:15:00	48	40	28	1.083	130	36	166	1.091	86	64.74	11829.2	11233.4
27-Nov-16 02:30:00	48	40	28	1.084	132	36	171	1.112	79	64.75	11830.3	11233.9
27-Nov-16 02:45:00	48	40	27	1.086	131	35	167	1.009	147	64.77	11831.4	11234.3
27-Nov-16 03:00:00	48	40	27	1.085	134	35	173	1.206	64	64.78	11832.5	11234.8
27-Nov-16 03:15:00	48	41	27	1.093	133	35	166	1.011	129	64.79	11833.6	11235.1
27-Nov-16 03:30:00	48	41	27	1.086	134	35	171	0.963	161	64.80	11834.5	11235.5
27-Nov-16 03:45:00	48	41	27	1.088	133	35	173	1.303	15	64.81	11835.4	11235.8
27-Nov-16 04:00:00	48	41	27	1.089	132	35	167	1.028	142	64.82	11836.3	11236.2
27-Nov-16 04:15:00	48	40	27	1.088	130	35	169	1.154	73	64.83	11837.4	11236.5
27-Nov-16 04:30:00	48	40	27	1.083	132	35	169	1.229	18	64.85	11838.3	11236.9
27-Nov-16 04:45:00	48	40	27	1.091	134	35	174	1.092	108	64.86	11839.4	11237.2
27-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%. Gas SG=0.642.											
27-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=56.68mS@21.5degC,Water Density=1013.4kg/m3@23.8DegC, Dissolved Oxygen=4.8%, Oxidation Reduction Potential=-195.7mV2, Salinity=41000ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
27-Nov-16 05:00:00	48	41	27	1.091	131	35	164	1.112	61	64.87	11840.3	11237.5
27-Nov-16 05:10:00	Pumped 70.4 bbls from tank to pond.											
27-Nov-16 05:15:00	48	40	27	1.083	133	35	170	1.041	135	64.88	11841.4	11238.0
27-Nov-16 05:30:00	48	41	26	1.091								11238.5
27-Nov-16 05:45:00	48	40	26	1.086	132	35	169	1.106	81	64.90	11843.1	11238.9
27-Nov-16 06:00:00	48	40	26	1.089	132	35	169	1.199	44	64.91	11844.2	11239.4
27-Nov-16 06:15:00	48	40	26	1.086	133	35	171	0.983	175	64.92	11845.1	11240.0
27-Nov-16 06:30:00	48	40	26	1.088	133	35	172	1.173	73	64.93	11846.1	11240.5
27-Nov-16 06:45:00	48	40	27	1.093	133	36	170	0.931	197	64.95	11847.1	11241.1
27-Nov-16 07:00:00	48	40	27	1.085	131	37	172	1.260	10	64.96	11848.1	11241.7
27-Nov-16 07:15:00	48	41	28	1.092	131	38	170	1.059	120	64.97	11849.0	11242.3
27-Nov-16 07:30:00	48	40	29	1.089	133	38	179	1.150	99	64.98	11849.9	11242.8
27-Nov-16 07:45:00	48	40	30	1.093	129	39	169	1.037	126	64.99	11851.0	11243.4
27-Nov-16 08:00:00	Gas SG=0.640.											
27-Nov-16 08:00:00	48	41	30	1.087	131	39	175	1.114	101	65.00	11852.2	11244.0
27-Nov-16 08:15:00	48	41	31	1.092	128	39	167	1.091	83	65.01	11853.2	11244.3
27-Nov-16 08:30:00	48	41	31	1.088	130	40	172	1.074	78	65.02	11854.1	11244.7
27-Nov-16 08:45:00	48	40	32	1.091	129	40	169	1.254	9	65.04	11855.4	11245.0
27-Nov-16 09:00:00	48	40	32	1.091	129	41	176	1.024	143	65.05	11856.5	11245.4
27-Nov-16 09:15:00	48	40	33	1.087	128	41	174	1.015	132	65.06	11857.7	11245.8
27-Nov-16 09:30:00	48	40	33	1.093	124	42	166	1.017	106	65.07	11858.7	11246.3
27-Nov-16 09:45:00	48	40	34	1.080	128	42	183	1.123	85	65.08	11859.5	11246.8
27-Nov-16 10:00:00	48	40	34	1.102	126	42	169	1.027	135	65.09	11860.7	11247.2
27-Nov-16 10:15:00	48	41	35	1.083	127	43	173	1.159	49	65.10	11861.8	11247.7
27-Nov-16 10:30:00	48	40	35	1.100	126	43	176	0.801	277	65.11	11863.0	11248.1
27-Nov-16 10:45:00	48	41	35	1.089	125	43	172	0.971	166	65.12	11864.0	11248.6
27-Nov-16 11:00:00	BSW=100% no solids, H2S=8ppm, CO2 4%, Gas SG=0.640.											
27-Nov-16 11:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.55mS@30.5degC,Water Density=1011.4kg/m3@31DegC, Dissolved Oxygen=3.1%, Oxidation Reduction Potential=-220mV2, Salinity=41000ppm.											
27-Nov-16 11:00:00	48	41	36	1.091	129	44	174	1.013	135	65.14	11865.1	11249.1
27-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.											
27-Nov-16 11:15:00	48	41	36	1.092	125	44	171	1.139	65	65.15	11866.3	11249.4
27-Nov-16 11:30:00	48	41	36	1.090	128	44	177	1.087	100	65.16	11868.0	11249.7
27-Nov-16 11:45:00	48	41	37	1.090	127	44	176	0.909	185	65.17	11868.9	11250.1
27-Nov-16 12:00:00	48	41	37	1.096	127	44	175	1.068	95	65.18	11870.3	11250.4
27-Nov-16 12:15:00	48	41	37	1.091	127	45	174	0.994	150	65.19	11871.5	11250.8
27-Nov-16 12:30:00	48	41	37	1.094	128	45	178	0.914	213	65.20	11872.8	11251.1
27-Nov-16 12:45:00	48	41	37	1.093	126	45	179	1.227	36	65.21	11873.7	11251.5

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
27-Nov-16 13:00:00	48	41	38	1.090	126	45	172	1.041	105	65.22	11874.9	11251.8
27-Nov-16 13:15:00	48	42	38	1.093	125	45	169	1.076	86	65.23	11875.9	11252.3
27-Nov-16 13:30:00	48	41	38	1.089	126	44	172	1.111	59	65.24	11876.8	11252.7
27-Nov-16 13:45:00	48	42	38	1.091	128	44	174	0.945	196	65.25	11878.1	11253.2
27-Nov-16 14:00:00	Gas SG=0.640.											
27-Nov-16 14:00:00	48	41	38	1.093	128	45	175	1.087	94	65.27	11879.3	11253.7
27-Nov-16 14:15:00	48	42	39	1.094	127	45	169	1.129	53	65.28	11880.3	11254.1
27-Nov-16 14:30:00	48	42	39	1.092	125	45	169	1.006	117	65.29	11881.2	11254.6
27-Nov-16 14:45:00	48	42	39	1.095	126	46	172	0.830	248	65.30	11882.6	11255.0
27-Nov-16 15:00:00	48	42	39	1.091	123	46	169	0.961	142	65.31	11883.8	11255.5
27-Nov-16 15:15:00	48	42	39	1.090	126	44	182	1.141	78	65.32	11885.0	11255.7
27-Nov-16 15:30:00	48	42	39	1.091	126	44	172	0.871	207	65.33	11886.2	11256.0
27-Nov-16 15:45:00	48	42	39	1.088	128	44	174	0.935	190	65.34	11887.5	11256.2
27-Nov-16 16:00:00	48	42	38	1.090	125	43	174	1.313	0	65.35	11888.5	11256.4
27-Nov-16 16:15:00	48	42	38	1.088	127	43	170	1.190	25	65.36	11889.7	11256.9
27-Nov-16 16:30:00	48	42	38	1.090	126	43	173	0.960	164	65.37	11891.3	11257.3
27-Nov-16 16:45:00	48	42	38	1.088	127	43	174	1.035	134	65.38	11892.7	11257.8
27-Nov-16 17:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
27-Nov-16 17:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=68.22mS@31.4degC,Water Density=1010.8kg/m3@33DegC, Dissolved Oxygen=3.7%, Oxidation Reduction Potential=-226mV2, Salinity=41000ppm.											
27-Nov-16 17:00:00	48	42	38	1.088	129	43	176	1.048	94	65.40	11893.7	11258.3
27-Nov-16 17:15:00	48	42	38	1.082	129	42	175	1.119	112	65.40	11894.8	11258.8
27-Nov-16 17:30:00	48	42	37	1.091	124	42	166	1.024	103	65.42	11896.1	11259.4
27-Nov-16 17:45:00	48	42	37	1.074	128	41	174	1.159	53	65.43	11897.3	11260.0
27-Nov-16 18:00:00	48	42	37	1.081	129	41	173	1.089	90	65.44	11898.4	11260.5
27-Nov-16 18:15:00	48	42	36	1.080	130	40	174	0.912	204	65.45	11899.6	11261.0
27-Nov-16 18:30:00	48	42	36	1.079	128	40	177	1.078	119	65.46	11900.9	11261.5
27-Nov-16 18:45:00	48	42	35	1.082	130	39	174	0.979	157	65.47	11902.2	11261.9
27-Nov-16 19:00:00	48	42	34	1.082	131	39	177	0.907	241	65.48	11903.6	11262.4
27-Nov-16 19:15:00	48	42	34	1.083	128	38	173	1.055	121	65.49	11904.8	11262.7
27-Nov-16 19:30:00	48	42	33	1.082	130	38	173	1.058	111	65.50	11906.0	11263.1
27-Nov-16 19:45:00	48	42	33	1.084	129	38	170	0.984	142	65.51	11907.2	11263.4
27-Nov-16 20:00:00	Gas SG=0.642.											
27-Nov-16 20:00:00	48	41	32	1.077	128	38	168	1.042	86	65.52	11908.3	11263.8
27-Nov-16 20:15:00	48	41	32	1.085	131	37	174	1.120	89	65.54	11909.4	11264.1
27-Nov-16 20:30:00	48	41	31	1.082	130	37	172	1.094	100	65.55	11910.6	11264.5
27-Nov-16 20:45:00	48	41	31	1.082	129	37	170	1.278	2	65.56	11911.5	11264.8
27-Nov-16 21:00:00	48	41	31	1.080	128	37	166	1.043	116	65.57	11912.6	11265.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
27-Nov-16 21:15:00	48	41	30	1.080	131	37	174	1.062	124	65.58	11913.6	11265.6
27-Nov-16 21:30:00	48	41	30	1.077	130	37	170	0.981	165	65.59	11914.4	11266.1
27-Nov-16 21:45:00	48	41	30	1.085	132	37	174	1.064	127	65.60	11915.8	11266.5
27-Nov-16 22:00:00	48	41	30	1.078	131	37	176	1.091	116	65.61	11916.9	11267.0
27-Nov-16 22:15:00	48	40	30	1.086	128	37	163	1.067	92	65.63	11917.9	11267.4
27-Nov-16 22:30:00	48	41	30	1.078	128	37	169	0.955	163	65.64	11919.0	11267.9
27-Nov-16 22:45:00	48	40	30	1.082	131	37	174	1.188	63	65.65	11920.1	11268.4
27-Nov-16 23:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
27-Nov-16 23:00:00	Water sample from VX: pH=6.6, Electrical Conductivity=60.14mS@24degC,Water Density=1012.8kg/m3@26.3DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-243.7mV2, Salinity=41000ppm.											
27-Nov-16 23:00:00	48	41	30	1.079	130	37	170	0.993	151	65.66	11921.2	11268.8
27-Nov-16 23:15:00	48	41	30	1.080	129	37	168	1.177	25	65.67	11922.4	11269.3
27-Nov-16 23:30:00	48	41	30	1.079	130	37	171	0.880	227	65.68	11923.7	11269.8
27-Nov-16 23:45:00	48	41	30	1.080	129	37	172	1.071	110	65.69	11924.7	11270.2
28-Nov-16 00:00:00	48	41	30	1.077	131	37	171	1.249	15	65.70	11925.4	11270.7
28-Nov-16 00:15:00	48	41	30	1.083	131	37	174	1.123	82	65.72	11926.6	11271.1
28-Nov-16 00:30:00	48	41	30	1.083	130	36	173	1.136	98	65.73	11927.2	11271.6
28-Nov-16 00:45:00	48	41	29	1.082	128	36	165	1.026	124	65.74	11928.1	11272.1
28-Nov-16 01:00:00	48	41	29	1.077	131	36	171	1.133	69	65.75	11929.0	11272.5
28-Nov-16 01:15:00	48	41	29	1.081	129	36	165	0.954	94	65.76	11930.0	11272.9
28-Nov-16 01:30:00	48	41	29	1.078	130	36	164	1.048	122	65.77	11931.2	11273.2
28-Nov-16 01:45:00	48	41	29	1.083	129	36	169	0.978	155	65.78	11932.3	11273.5
28-Nov-16 02:00:00	Gas SG=0.640.											
28-Nov-16 02:00:00	48	41	29	1.082	131	36	170	0.939	192	65.80	11933.5	11273.9
28-Nov-16 02:15:00	48	40	29	1.086	130	36	167	1.254	9	65.81	11934.5	11274.2
28-Nov-16 02:30:00	48	41	29	1.080	130	36	165	1.026	138	65.82	11935.5	11274.6
28-Nov-16 02:45:00	48	41	28	1.085	130	36	167	1.091	66	65.83	11936.3	11274.9
28-Nov-16 03:00:00	48	40	28	1.085	131	36	170	1.152	70	65.84	11937.4	11275.3
28-Nov-16 03:15:00	48	41	28	1.080	134	36	175	1.081	103	65.85	11938.4	11275.7
28-Nov-16 03:30:00	48	41	28	1.089	132	36	170	1.086	95	65.86	11939.5	11276.2
28-Nov-16 03:45:00	48	41	28	1.085	132	36	168	1.083	98	65.88	11940.4	11276.7
28-Nov-16 04:00:00	48	40	28	1.082	132	36	171	1.147	79	65.89	11941.3	11277.1
28-Nov-16 04:15:00	48	41	28	1.083	132	36	170	1.129	72	65.90	11942.3	11277.5
28-Nov-16 04:30:00	48	40	28	1.080	133	36	171	1.145	73	65.91	11943.2	11277.8
28-Nov-16 04:45:00	48	41	28	1.084	132	36	170	1.214	44	65.92	11944.0	11278.1
28-Nov-16 05:00:00	BSW=100% no solids, H2S=8ppm, CO2=4%, Gas SG=0.642.											
28-Nov-16 05:00:00	Water sample from VX: pH=6.5, Electrical Conductivity=57.87mS@20.8degC,Water Density=1014kg/m3@23.2DegC, Dissolved Oxygen=4.5%, Oxidation Reduction Potential=-197.6mV2, Salinity=42000ppm.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
28-Nov-16 05:00:00	48	40	28	1.083	132	36	172	1.030	137	65.93	11945.1	11278.5
28-Nov-16 05:15:00	48	41	28	1.078	134	36	174	1.127	104	65.95	11946.1	11278.8
28-Nov-16 05:30:00	48	41	28	1.088								11279.2
28-Nov-16 05:45:00	48	41	28	1.082	132	36	171	1.325	21	65.97	11947.6	11279.5
28-Nov-16 06:00:00	48	40	28	1.084	132	36	168	1.184	52	65.98	11948.9	11279.9
28-Nov-16 06:15:00	48	40	27	1.079	133	36	173	1.029	116	65.99	11949.7	11280.4
28-Nov-16 06:30:00	48	41	28	1.086	131	36	166	1.217	36	66.00	11950.8	11281.0
28-Nov-16 06:45:00	48	41	28	1.084	128	37	162	1.013	137	66.01	11951.7	11281.6
28-Nov-16 07:00:00	48	41	28	1.085	128	37	170	1.124	75	66.02	11953.0	11282.2
28-Nov-16 07:15:00	48	41	29	1.082	130	38	168	0.958	174	66.04	11954.0	11282.4
28-Nov-16 07:30:00	48	41	30	1.084	131	38	168	1.267	11	66.05	11954.7	11282.6
28-Nov-16 07:45:00	48	41	30	1.088	127	39	162	1.050	89	66.06	11955.8	11282.9
28-Nov-16 08:00:00	Gas SG 0.638.											
28-Nov-16 08:00:00	48	41	31	1.081	130	39	168	0.990	154	66.07	11956.8	11283.1
28-Nov-16 08:15:00	48	40	31	1.093	128	40	165	1.058	85	66.08	11958.0	11283.7
28-Nov-16 08:30:00	48	41	32	1.086	130	40	172	1.277	21	66.09	11959.0	11284.2
28-Nov-16 08:45:00	48	41	32	1.093	127	41	171	1.170	43	66.10	11960.1	11284.8
28-Nov-16 09:00:00	48	40	33	1.086	127	41	167	1.161	38	66.11	11961.1	11285.4
28-Nov-16 09:15:00	48	41	33	1.090	127	42	172	1.059	114	66.13	11962.0	11285.8
28-Nov-16 09:30:00	48	41	34	1.090	125	42	167	1.055	93	66.14	11962.8	11286.3
28-Nov-16 09:45:00	48	41	34	1.088	129	42	176	0.878	250	66.15	11964.1	11286.8
28-Nov-16 10:00:00	48	41	35	1.093	126	43	170	1.078	80	66.16	11965.3	11287.2
28-Nov-16 10:15:00	48	41	35	1.091	128	43	171	0.896	234	66.17	11966.7	11287.8
28-Nov-16 10:30:00	48	41	36	1.093	126	43	169	0.916	158	66.18	11967.9	11288.4
28-Nov-16 10:45:00	48	42	36	1.088	129	44	174	1.107	84	66.19	11969.1	11289.0
28-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
28-Nov-16 11:00:00	48	41	36	1.097	124	44	176	1.004	140	66.20	11970.4	11289.5
28-Nov-16 11:00:10	Water sample from VX: pH=6.6 Electrical Conductivity=70.06mS@31degC,Water Density=1012.4kg/m3@31.4DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-209.3mV2, Salinity=42000ppm.											
28-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.											
28-Nov-16 11:15:00	48	41	37	1.084	127	44	174	1.045	113	66.21	11971.7	11289.9
28-Nov-16 11:30:00	48	41	37	1.089	125	44	170	1.099	75	66.22	11972.7	11290.2
28-Nov-16 11:45:00	48	41	37	1.091	129	45	173	1.055	120	66.23	11974.0	11290.6
28-Nov-16 12:00:00	48	41	37	1.093	126	45	169	0.977	138	66.25	11975.2	11290.9
28-Nov-16 12:15:00	48	41	37	1.090	123	45	168	1.013	107	66.26	11976.3	11291.3
28-Nov-16 12:30:00	48	42	38	1.084	126	45	171	1.049	91	66.27	11977.5	11291.6
28-Nov-16 12:45:00	48	41	38	1.091	123	45	172	0.923	149	66.28	11978.9	11291.9
28-Nov-16 13:00:00	48	41	38	1.085	125	45	174	1.036	96	66.29	11980.2	11292.3

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
28-Nov-16 13:05:00	Gas flare blown out by gust of wind.											
28-Nov-16 13:10:00	Re-lit gas flare.											
28-Nov-16 13:15:00	48	42	39	1.086	125	46	169	1.002	115	66.30	11981.3	11292.6
28-Nov-16 13:30:00	48	41	39	1.086	127	44	177	0.999	148	66.31	11982.6	11293.0
28-Nov-16 13:45:00	48	42	38	1.089	128	44	173	1.070	96	66.32	11983.6	11293.3
28-Nov-16 14:00:00	Gas SG 0.640.											
28-Nov-16 14:00:00	48	42	38	1.086	127	44	175	1.024	128	66.33	11984.7	11293.7
28-Nov-16 14:15:00	48	42	39	1.094	127	45	175	1.231	13	66.34	11985.6	11294.0
28-Nov-16 14:30:00	48	42	39	1.084	128	45	174	1.219	28	66.35	11986.6	11294.2
28-Nov-16 14:45:00	48	42	38	1.089	127	43	171	0.888	223	66.36	11987.8	11294.5
28-Nov-16 15:00:00	48	42	38	1.086	128	43	172	1.111	51	66.37	11989.2	11294.8
28-Nov-16 15:15:00	48	42	38	1.088	127	44	176	0.962	164	66.39	11990.4	11295.1
28-Nov-16 15:30:00	48	42	38	1.088	127	44	171	1.022	100	66.40	11991.6	11295.4
28-Nov-16 15:45:00	48	42	38	1.084	127	43	171	1.089	71	66.41	11992.8	11295.7
28-Nov-16 16:00:00	Took ALS water sample from separator. PH 6.3, EC 73.77m/s @ 34.2 deg C 11296 bbls returned.											
28-Nov-16 16:00:00	48	42	37	1.086	129	42	173	0.926	209	66.42	11994.0	11296.0
28-Nov-16 16:15:00	48	42	38	1.088	125	43	172	1.126	58	66.43	11995.0	11296.4
28-Nov-16 16:30:00	48	42	37	1.081	129	43	173	1.089	82	66.44	11996.2	11296.9
28-Nov-16 16:45:00	48	43	37	1.082	127	42	172	1.124	71	66.45	11997.4	11297.4
28-Nov-16 17:00:00	BSW 100% No Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
28-Nov-16 17:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=69.7mS@31.8degC,Water Density=1011.5kg/m3@32.5DegC, Dissolved Oxygen=2.3%, Oxidation Reduction Potential=-195.1mV2, Salinity=41000ppm.											
28-Nov-16 17:00:00	48	42	37	1.082	128	42	170	1.121	69	66.46	11998.3	11297.8
28-Nov-16 17:15:00	48	43	37	1.085	127	42	170	1.002	129	66.47	11999.3	11298.3
28-Nov-16 17:30:00	48	43	37	1.082	128	41	171	1.074	98	66.48	12000.5	11298.7
28-Nov-16 17:45:00	48	42	37	1.077	127	41	171	0.937	183	66.49	12001.5	11299.2
28-Nov-16 18:00:00	48	43	37	1.076	127	40	171	1.002	136	66.50	12002.9	11299.7
28-Nov-16 18:15:00	48	43	36	1.078	131	40	172	1.005	131	66.51	12004.0	11300.0
28-Nov-16 18:30:00	48	42	36	1.087	126	40	174	0.953	154	66.53	12005.2	11300.3
28-Nov-16 18:45:00	48	42	35	1.075	128	39	169	0.924	195	66.54	12006.3	11300.7
28-Nov-16 19:00:00	48	42	34	1.083	128	39	172	1.063	82	66.55	12007.7	11301.0
28-Nov-16 19:15:00	48	42	34	1.078	127	38	167	1.106	78	66.56	12008.7	11301.4
28-Nov-16 19:30:00	48	42	33	1.079	130	38	172	0.941	172	66.57	12009.8	11301.7
28-Nov-16 19:45:00	48	42	33	1.082	127	37	167	1.081	91	66.58	12011.0	11302.1
28-Nov-16 20:00:00	Gas SG 0.640.											
28-Nov-16 20:00:00	48	42	32	1.073	130	37	169	1.142	64	66.59	12012.0	11302.4
28-Nov-16 20:15:00	48	41	31	1.080	129	37	167	1.270	0	66.60	12013.0	11302.8
28-Nov-16 20:30:00	48	42	31	1.081	131	37	171	1.147	58	66.61	12014.2	11303.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
28-Nov-16 20:45:00	48	42	31	1.079	128	36	165	1.123	60	66.63	12015.1	11303.4
28-Nov-16 21:00:00	48	42	30	1.083	127	36	163	1.155	66	66.64	12016.4	11303.8
28-Nov-16 21:15:00	48	41	30	1.082	129	36	166	1.143	48	66.65	12017.2	11304.1
28-Nov-16 21:30:00	48	42	30	1.082	129	36	170	1.138	70	66.66	12017.9	11304.5
28-Nov-16 21:45:00	48	42	29	1.080	128	36	164	1.093	81	66.67	12019.0	11304.8
28-Nov-16 22:00:00	48	41	29	1.066	131	36	174	0.991	169	66.68	12020.0	11305.2
28-Nov-16 22:15:00	48	43	29	1.097	134	36	166	0.965	174	66.69	12021.0	11305.7
28-Nov-16 22:30:00	48	41	29	1.085	129	36	163	1.046	117	66.70	12022.4	11306.3
28-Nov-16 22:45:00	48	41	29	1.092	131	36	167	0.994	156	66.72	12023.5	11306.9
28-Nov-16 23:00:00	BSW 100% Trace Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
28-Nov-16 23:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=59.42mS@23.9degC,Water Density=1012.5kg/m3@24.0DegC, Dissolved Oxygen=3.2%, Oxidation Reduction Potential=-258.4mV2, Salinity=41000ppm.											
28-Nov-16 23:00:00	48	41	29	1.080	129	36	171	1.193	38	66.73	12024.6	11307.5
28-Nov-16 23:15:00	48	41	29	1.083	134	36	173	1.134	90	66.74	12025.8	11307.8
28-Nov-16 23:30:00	48	41	29	1.082	133	36	168	1.152	69	66.75	12026.6	11308.2
28-Nov-16 23:45:00	48	41	29	1.084	131	36	172	1.121	87	66.76	12027.4	11308.5
29-Nov-16 00:00:00	48	41	29	1.081	129	36	164	1.222	9	66.77	12028.2	11308.9
29-Nov-16 00:15:00	48	41	29	1.081	130	36	164	1.283	0	66.78	12029.1	11309.3
29-Nov-16 00:30:00	48	42	28	1.084	132	36	166	1.084	90	66.80	12030.2	11309.8
29-Nov-16 00:45:00	48	41	28	1.082	132	36	168	1.199	32	66.81	12031.1	11310.2
29-Nov-16 01:00:00	48	42	28	1.085	130	36	167	1.119	72	66.82	12032.2	11310.7
29-Nov-16 01:15:00	48	41	28	1.079	134	36	171	1.145	98	66.83	12033.4	11311.0
29-Nov-16 01:30:00	48	42	28	1.088	131	36	166	1.019	130	66.84	12034.3	11311.4
29-Nov-16 01:45:00	48	41	28	1.079	132	36	165	1.086	99	66.85	12035.1	11311.7
29-Nov-16 02:00:00	Pumped 43.7 bbls from tank to pond.											
29-Nov-16 02:00:00	Gas SG 0.642.											
29-Nov-16 02:00:00	48	41	28	1.083	131	36	168	1.101	118	66.86	12036.4	11312.1
29-Nov-16 02:15:00	48	41	28	1.081	136	36	173	1.133	101	66.88	12037.4	11312.4
29-Nov-16 02:30:00	48	41	28	1.087	132	36	169	1.260	59	66.89	12038.0	11312.8
29-Nov-16 02:45:00	48	41	28	1.082	130	36	166	1.013	130	66.90	12038.6	11313.1
29-Nov-16 03:00:00	48	41	28	1.080	133	36	167	1.020	140	66.91	12039.5	11313.5
29-Nov-16 03:15:00	48	41	28	1.085	131	36	164	1.077	78	66.92	12040.5	11313.8
29-Nov-16 03:30:00	48	41	28	1.082	133	36	170	0.989	150	66.93	12041.7	11314.1
29-Nov-16 03:45:00	48	41	28	1.084	131	36	167	1.075	97	66.95	12042.7	11314.5
29-Nov-16 04:00:00	48	41	28	1.085	132	36	169	1.138	97	66.96	12043.9	11314.8
29-Nov-16 04:15:00	48	41	28	1.086	131	36	164	1.274	0	66.97	12044.6	11315.3
29-Nov-16 04:30:00	48	41	27	1.083	129	35	163	1.156	46	66.98	12045.6	11315.8
29-Nov-16 04:45:00	48	41	27	1.080	130	35	162	1.051	115	66.99	12046.3	11316.2

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
29-Nov-16 05:00:00	BSW 100% Trace Solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
29-Nov-16 05:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=59.30mS@24.1degC,Water Density=1012.5kg/m3@25.3DegC, Dissolved Oxygen=2.5%, Oxidation Reduction Potential=-231.9mV2, Salinity=41000ppm.											
29-Nov-16 05:00:00	48	41	27	1.082	131	35	171	0.968	176	67.00	12047.6	11316.7
29-Nov-16 05:15:00	48	41	27	1.083	133	35	165	1.167	55	67.01	12048.4	11317.1
29-Nov-16 05:30:00	48	41	27	1.084								11317.6
29-Nov-16 05:45:00	48	41	27	1.085	137	35	171	1.165	62	67.04	12050.4	11318.1
29-Nov-16 06:00:00	48	41	27	1.093	133	35	167	0.984	170	67.05	12051.6	11318.5
29-Nov-16 06:15:00	48	41	27	1.082	133	35	168	1.001	148	67.06	12052.7	11318.9
29-Nov-16 06:30:00	48	42	27	1.086	133	36	167	1.018	152	67.07	12053.6	11319.2
29-Nov-16 06:45:00	48	41	27	1.087	132	36	165	1.105	84	67.08	12054.7	11319.5
29-Nov-16 07:00:00	48	41	28	1.086	132	37	166	1.089	97	67.09	12055.9	11319.9
29-Nov-16 07:15:00	48	41	28	1.083	131	38	166	1.204	25	67.10	12056.7	11320.2
29-Nov-16 07:30:00	48	41	29	1.092	130	38	170	0.996	156	67.11	12057.8	11320.6
29-Nov-16 07:45:00	48	42	30	1.084	133	39	170	1.091	97	67.13	12059.0	11320.9
29-Nov-16 08:00:00	Gas SG 0.640.											
29-Nov-16 08:00:00	48	42	30	1.092	129	39	166	1.096	80	67.14	12060.0	11321.3
29-Nov-16 08:15:00	48	41	31	1.087	130	39	167	0.994	135	67.15	12061.0	11321.6
29-Nov-16 08:30:00	48	41	31	1.087	128	39	172	1.008	142	67.16	12062.0	11322.0
29-Nov-16 08:45:00	48	42	32	1.086	129	40	168	1.108	77	67.17	12062.9	11322.3
29-Nov-16 09:00:00	48	41	32	1.086	131	40	172	1.126	84	67.18	12064.0	11322.7
29-Nov-16 09:15:00	48	41	33	1.085	129	41	167	1.039	116	67.19	12064.9	11323.1
29-Nov-16 09:30:00	48	42	33	1.089	126	41	163	1.132	38	67.20	12066.1	11323.6
29-Nov-16 09:45:00	48	41	33	1.084	130	42	173	1.027	140	67.21	12067.1	11324.0
29-Nov-16 10:00:00	48	42	34	1.090	126	42	165	0.844	225	67.23	12068.3	11324.5
29-Nov-16 10:15:00	48	42	34	1.087	125	42	162	1.068	71	67.24	12069.5	11324.9
29-Nov-16 10:30:00	48	42	35	1.089	125	43	170	1.175	39	67.25	12070.4	11325.4
29-Nov-16 10:45:00	48	42	35	1.091	124	43	170	1.230	4	67.26	12071.3	11325.9
29-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.640.											
29-Nov-16 11:00:00	Flushed VX liquid port, found 1cc of sand.											
29-Nov-16 11:00:00	Water sample from VX: pH=6.5 Electrical Conductivity=70.08mS@31.2degC,Water Density=1011.4kg/m3@32DegC, Dissolved Oxygen=1.8%, Oxidation Reduction Potential=-231.4mV2, Salinity=41000ppm.											
29-Nov-16 11:00:00	48	42	36	1.086	125	44	167	1.026	85	67.27	12072.2	11326.3
29-Nov-16 11:15:00	48	42	36	1.086	128	44	173	1.056	112	67.28	12073.4	11326.7
29-Nov-16 11:30:00	48	42	36	1.089	128	44	171	0.870	195	67.29	12074.6	11327.0
29-Nov-16 11:45:00	48	41	37	1.084	131	44	174	0.924	189	67.30	12076.0	11327.4
29-Nov-16 12:00:00	48	42	37	1.090	127	45	168	1.057	89	67.31	12077.0	11327.7
29-Nov-16 12:15:00	48	42	37	1.093	127	45	169	0.898	218	67.32	12078.3	11328.1

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
29-Nov-16 12:30:00	48	41	38	1.086	126	45	170	1.004	125	67.33	12079.3	11328.4
29-Nov-16 12:45:00	48	42	38	1.088	126	45	172	0.957	157	67.35	12080.5	11328.7
29-Nov-16 13:00:00	48	42	38	1.085	126	45	170	1.074	79	67.36	12081.7	11329.1
29-Nov-16 13:15:00	48	42	38	1.089	125	45	166	1.124	53	67.37	12083.0	11329.5
29-Nov-16 13:30:00	48	43	39	1.087	125	46	168	1.025	94	67.38	12084.1	11330.0
29-Nov-16 13:45:00	48	43	39	1.089	129	46	170	0.985	138	67.39	12085.2	11330.5
29-Nov-16 14:00:00	Gas SG 0.640.											
29-Nov-16 14:00:00	48	42	39	1.087	126	46	175	1.140	58	67.40	12086.0	11330.9
29-Nov-16 14:15:00	48	43	40	1.086	131	46	177	1.209	40	67.41	12087.4	11331.3
29-Nov-16 14:30:00	48	43	40	1.091	128	46	172	1.071	106	67.42	12088.9	11331.6
29-Nov-16 14:45:00	48	43	40	1.089	129	45	173	1.101	82	67.43	12089.8	11332.0
29-Nov-16 15:00:00	48	43	39	1.091	125	44	171	0.999	128	67.44	12091.2	11332.3
29-Nov-16 15:15:00	48	43	39	1.086	128	43	171	0.992	148	67.45	12092.4	11332.7
29-Nov-16 15:30:00	48	43	38	1.092	125	43	166	0.972	119	67.46	12093.6	11333.0
29-Nov-16 15:45:00	48	43	38	1.087	127	44	174	1.062	94	67.47	12094.8	11333.3
29-Nov-16 16:00:00	48	43	38	1.088	126	44	169	1.122	57	67.48	12096.2	11333.7
29-Nov-16 16:15:00	48	43	38	1.088	127	44	168	1.158	40	67.50	12097.3	11334.2
29-Nov-16 16:30:00	48	43	39	1.087	123	44	166	0.954	146	67.51	12098.1	11334.6
29-Nov-16 16:45:00	48	43	38	1.082	127	43	169	0.975	160	67.52	12099.4	11335.1
29-Nov-16 17:00:00	BSW 100% no solids, H2S 8ppm, CO2 4.5%, Gas SG 0.642.											
29-Nov-16 17:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=69.82mS@31.4degC,Water Density=1011.2kg/m3@33.2DegC, Dissolved Oxygen=1.5%, Oxidation Reduction Potential=-232mV2, Salinity=42000ppm.											
29-Nov-16 17:00:00	48	43	38	1.084	127	43	176	1.168	28	67.53	12100.4	11335.5
29-Nov-16 17:15:00	48	43	38	1.081	127	43	169	1.171	37	67.54	12101.3	11335.9
29-Nov-16 17:30:00	48	43	38	1.079	127	42	169	1.104	96	67.55	12102.6	11336.2
29-Nov-16 17:45:00	48	43	38	1.077	128	42	170	0.901	194	67.56	12103.9	11336.6
29-Nov-16 18:00:00	48	43	37	1.078	130	41	172	1.066	99	67.57	12104.7	11336.9
29-Nov-16 18:15:00	48	43	37	1.081	127	40	172	1.137	72	67.58	12105.7	11337.4
29-Nov-16 18:30:00	48	43	36	1.078	128	40	172	0.952	170	67.59	12107.0	11337.8
29-Nov-16 18:45:00	48	43	35	1.073	130	39	170	1.064	108	67.60	12108.2	11338.3
29-Nov-16 19:00:00	48	43	35	1.080	129	39	170	1.074	92	67.61	12109.6	11338.8
29-Nov-16 19:15:00	48	43	34	1.075	126	38	163	0.938	172	67.62	12110.8	11339.1
29-Nov-16 19:30:00	48	43	33	1.078	129	38	168	1.052	114	67.64	12111.8	11339.4
29-Nov-16 19:45:00	48	42	33	1.080	129	38	167	1.133	70	67.65	12112.8	11339.8
29-Nov-16 20:00:00	Gas SG 0.642.											
29-Nov-16 20:00:00	48	42	32	1.075	131	37	167	1.193	37	67.66	12113.9	11340.1
29-Nov-16 20:15:00	48	42	32	1.076	131	37	172	1.158	66	67.67	12114.9	11340.5
29-Nov-16 20:30:00	48	42	31	1.079	129	37	168	0.983	156	67.68	12116.0	11340.8

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
29-Nov-16 20:45:00	48	42	31	1.078	129	37	165	1.160	56	67.69	12116.9	11341.2
29-Nov-16 21:00:00	48	42	31	1.077	132	37	169	1.276	19	67.70	12117.8	11341.5
29-Nov-16 21:15:00	48	42	30	1.076	128	36	163	1.014	92	67.71	12118.8	11341.9
29-Nov-16 21:30:00	48	42	30	1.077	132	36	167	1.105	103	67.73	12119.9	11342.2
29-Nov-16 21:45:00	48	42	30	1.079	130	36	168	1.025	153	67.74	12120.8	11342.5
29-Nov-16 22:00:00	48	42	29	1.075	130	36	166	1.061	116	67.75	12122.1	11342.9
29-Nov-16 22:15:00	48	41	29	1.077	131	36	172	1.002	169	67.76	12122.9	11343.2
29-Nov-16 22:30:00	48	42	29	1.073	134	36	172	1.113	108	67.77	12123.8	11343.6
29-Nov-16 22:45:00	48	42	29	1.083	131	36	167	1.042	128	67.78	12124.8	11343.9
29-Nov-16 23:00:00	BSW 100% no solids, H2S 10ppm, CO2 4%, Gas SG 0.642											
29-Nov-16 23:00:00	48	42	28	1.076	134	36	168	1.021	149	67.79	12125.8	11344.3
29-Nov-16 23:00:01	Water sample from VX: pH=6.5 Electrical Conductivity=58.28mS@22.7degC,Water Density=1012.2kg/m3@25.1DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-209.7mV2, Salinity=41000ppm.											
29-Nov-16 23:15:00	48	42	28	1.080	131	36	169	1.012	127	67.81	12126.5	11344.7
29-Nov-16 23:30:00	48	42	29	1.082	133	36	167	1.092	96	67.82	12127.5	11345.2
29-Nov-16 23:45:00	48	42	29	1.073	132	36	167	1.030	132	67.83	12128.4	11345.7
30-Nov-16 00:00:00	48	42	29	1.076	131	36	167	1.154	58	67.84	12129.5	11346.1
30-Nov-16 00:15:00	48	42	29	1.080	129	35	164	0.940	158	67.85	12130.4	11346.6
30-Nov-16 00:30:00	48	42	29	1.078	127	35	161	1.028	117	67.86	12131.2	11347.0
30-Nov-16 00:45:00	48	42	29	1.075	130	35	166	1.198	37	67.87	12132.3	11347.5
30-Nov-16 01:00:00	48	42	29	1.080	129	35	170	1.081	98	67.89	12133.2	11348.0
30-Nov-16 01:15:00	48	42	29	1.078	131	35	167	0.998	149	67.90	12134.3	11348.4
30-Nov-16 01:30:00	48	42	28	1.077	134	35	168	1.194	50	67.91	12135.3	11348.9
30-Nov-16 01:45:00	48	42	28	1.080	131	36	164	1.146	60	67.92	12136.2	11349.3
30-Nov-16 02:00:00	Gas SG 0.640.											
30-Nov-16 02:00:00	48	42	28	1.082	129	36	162	1.067	86	67.93	12137.2	11349.8
30-Nov-16 02:15:00	48	41	28	1.078	130	36	166	1.149	71	67.94	12138.2	11350.1
30-Nov-16 02:30:00	48	42	28	1.084	131	36	165	1.012	125	67.95	12139.1	11350.5
30-Nov-16 02:45:00	48	42	28	1.082	131	36	167	1.216	36	67.96	12140.3	11350.8
30-Nov-16 03:00:00	Pumped 31.28 bbls from tank to pond.											
30-Nov-16 03:00:00	48	42	28	1.081	129	35	164	1.215	19	67.98	12141.2	11351.2
30-Nov-16 03:15:00	48	42	28	1.079	130	35	165	1.004	134	67.99	12142.1	11351.6
30-Nov-16 03:30:00	48	42	28	1.078	131	35	166	1.199	36	68.00	12143.0	11352.1
30-Nov-16 03:45:00	48	42	28	1.081	131	35	166	1.284	0	68.01	12143.9	11352.6
30-Nov-16 04:00:00	48	42	28	1.083	129	35	163	1.043	106	68.02	12144.8	11353.0
30-Nov-16 04:15:00	48	42	28	1.075	131	35	167	1.239	23	68.03	12145.7	11353.5
30-Nov-16 04:30:00	48	42	28	1.083	133	35	165	1.022	148	68.04	12146.7	11353.9
30-Nov-16 04:45:00	48	41	28	1.080	131	35	168	1.206	38	68.06	12147.6	11354.4

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
30-Nov-16 05:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
30-Nov-16 05:00:00	48	41	27	1.080	136	35	172	1.115	102	68.07	12148.7	11354.9
30-Nov-16 05:00:01	Water sample from VX: pH=6.6 Electrical Conductivity=59.83mS@23.9degC,Water Density=1012.4kg/m3@26.5DegC, Dissolved Oxygen=2.4%, Oxidation Reduction Potential=-191.7mV2, Salinity=41000ppm.											
30-Nov-16 05:15:00	48	41	27	1.083	129	35	163	0.914	201	68.08	12149.9	11355.2
30-Nov-16 05:30:00	48	42	27	1.073								11355.5
30-Nov-16 05:45:00	48	42	27	1.082	133	35	169	0.932	188	68.10	12151.6	11355.9
30-Nov-16 06:00:00	48	42	27	1.080	132	35	164	1.117	83	68.11	12152.6	11356.2
30-Nov-16 06:15:00	48	41	27	1.079	133	35	165	1.053	100	68.12	12153.4	11356.6
30-Nov-16 06:30:00	48	42	27	1.085	129	36	163	1.077	107	68.13	12154.5	11356.9
30-Nov-16 06:45:00	48	42	28	1.077	129	36	162	1.091	80	68.14	12155.3	11357.3
30-Nov-16 07:00:00	48	42	28	1.080	131	36	164	1.026	104	68.16	12156.3	11357.6
30-Nov-16 07:15:00	48	41	28	1.079	130	36	161	1.091	87	68.17	12157.4	11358.0
30-Nov-16 07:30:00	48	42	29	1.082	132	37	166	0.965	162	68.18	12158.2	11358.3
30-Nov-16 07:45:00	48	41	29	1.080	133	38	169	1.279	7	68.19	12158.8	11358.6
30-Nov-16 08:00:00	Gas SG 0.642.											
30-Nov-16 08:00:00	48	42	30	1.088	130	38	165	1.049	92	68.20	12159.8	11359.0
30-Nov-16 08:15:00	48	41	30	1.074	130	39	166	0.933	187	68.21	12161.0	11359.5
30-Nov-16 08:30:00	48	41	31	1.084	132	39	173	1.064	115	68.22	12161.7	11359.9
30-Nov-16 08:45:00	48	42	31	1.086	130	39	167	1.083	93	68.24	12162.6	11360.4
30-Nov-16 09:00:00	48	41	32	1.082	129	40	169	0.901	201	68.25	12163.9	11360.8
30-Nov-16 09:15:00	48	41	32	1.082	129	40	170	1.139	62	68.26	12165.0	11361.3
30-Nov-16 09:30:00	48	42	33	1.085	131	41	171	1.063	105	68.27	12166.0	11361.8
30-Nov-16 09:45:00	48	42	33	1.084	127	41	166	1.017	119	68.28	12167.1	11362.2
30-Nov-16 10:00:00	48	42	34	1.079	131	41	179	1.175	73	68.29	12168.2	11362.7
30-Nov-16 10:15:00	48	42	34	1.091	125	42	164	0.992	126	68.30	12169.2	11362.9
30-Nov-16 10:30:00	48	42	34	1.085	125	43	164	1.063	78	68.31	12170.2	11363.1
30-Nov-16 10:45:00	48	42	35	1.086	126	42	171	1.224	3	68.32	12171.1	11363.4
30-Nov-16 11:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG 0.642.											
30-Nov-16 11:00:00	Water sample from VX: pH=6.6 Electrical Conductivity=67.5.m/S@29.6degC,Water Density=1011.9kg/m3@29.9DegC, Dissolved Oxygen=2.1%, Oxidation Reduction Potential=-169.2mV2, Salinity=42000ppm.											
30-Nov-16 11:00:00	48	42	35	1.087	125	43	168	1.113	63	68.34	12171.8	11363.6
30-Nov-16 11:10:00	Flushed VX liquid port, found 1cc of sand.											
30-Nov-16 11:15:00	48	42	35	1.084	126	43	169	1.038	104	68.35	12172.8	11363.9
30-Nov-16 11:30:00	48	42	36	1.084	127	43	174	1.047	112	68.36	12174.1	11364.3
30-Nov-16 11:45:00	48	42	36	1.083	127	44	177	1.028	129	68.37	12175.0	11364.6
30-Nov-16 12:00:00	48	42	37	1.082	128	44	172	1.255	7	68.38	12175.9	11365.0
30-Nov-16 12:15:00	48	42	37	1.088	126	44	174	0.848	226	68.39	12176.9	11365.3

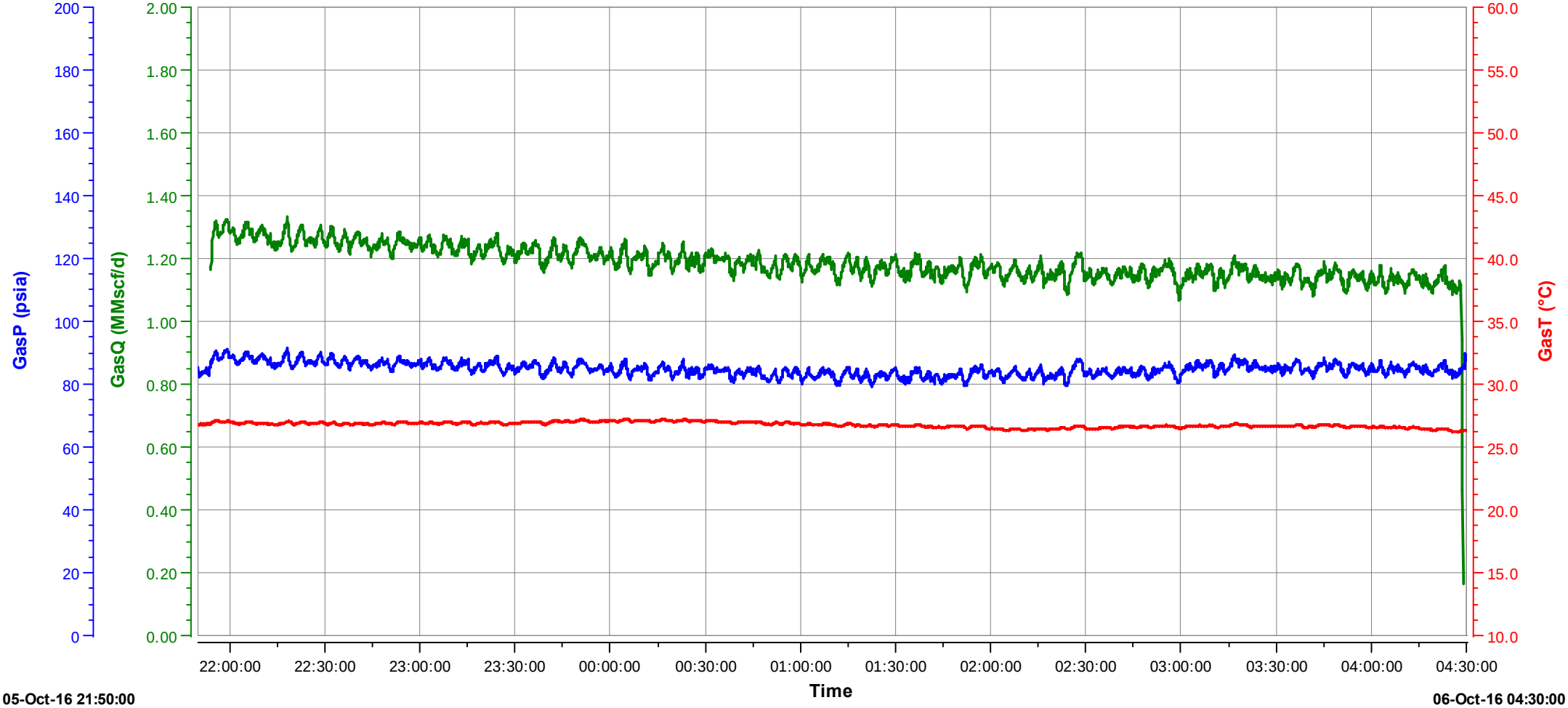
Copyright © 2003-2014 Schlumberger. DART Version 2015 3

		Separator Results			Vx Results					Cumulatives		
Date Time	ChokeSize	GasP	GasT	GasQ	PL	TL	DPV	qg_sc	qw_sc	cum_Gas	cum_Wtr	TankVT
dd-MMM-yy HH:mm:ss	(1/64 in)	(psia)	(°C)	(MMscf/d)	(psia)	(°C)	(mbar)	(MMscf/d)	(STB/d)	(MMscf)	(STB)	(STB)
30-Nov-16 12:30:00	48	43	37	1.085	126	44	168	1.085	72	68.40	12178.2	11365.7
30-Nov-16 12:45:00	48	42	37	1.087	127	45	168	1.042	92	68.41	12179.4	11366.0
30-Nov-16 13:00:00	48	42	38	1.081	125	45	165	0.930	181	68.42	12180.6	11366.4
30-Nov-16 13:15:00	48	42	38	1.086	128	44	169	0.986	139	68.43	12182.1	11366.7
30-Nov-16 13:30:00	48	43	38	1.086	123	45	164	1.001	103	68.44	12183.3	11367.0
30-Nov-16 13:45:00	48	43	38	1.087	122	45	161	1.065	65	68.45	12184.2	11367.4
30-Nov-16 14:00:00	Gas SG 0.642.											
30-Nov-16 14:00:00	48	43	39	1.088	123	45	163	0.980	137	68.47	12185.2	11367.7
30-Nov-16 14:15:00	48	44	39	1.083	127	46	167	1.130	53	68.48	12186.0	11368.1
30-Nov-16 14:30:00	48	43	39	1.086	125	46	168	1.093	83	68.49	12187.4	11368.4
30-Nov-16 14:45:00	48	43	39	1.088	125	45	167	1.041	106	68.50	12188.4	11368.8
30-Nov-16 15:00:00	BSW 100% no solids, H2S 8ppm, CO2 4%, Gas SG0.642.											
30-Nov-16 15:00:00	48	43	39	1.085	125	45	173	1.070	77	68.51	12189.5	11369.1
30-Nov-16 15:00:01	Took Isotube sample #40 from separator gas line at 44psia 38.5degC.											
30-Nov-16 15:00:02	Took ALS sample from separator oil line, PH 6.3, EC 74.6m/s @ 35degC, 11369 bbls returned.											
30-Nov-16 15:00:03	Water sample from VX: pH=6.6 Electrical Conductivity=69.8m/S@31.4degC,Water Density=1011.4kg/m3@33DegC, Dissolved Oxygen=2.2%, Oxidation Reduction Potential=-223.1mV2, Salinity=42000ppm.											
30-Nov-16 15:15:00	48	43	39	1.088	123	44	164	1.100	43	68.52	12190.3	11369.7
30-Nov-16 15:30:00	48	43	39	1.081	123	44	170	1.074	74	68.53	12191.4	11370.3
30-Nov-16 15:45:00	48	43	39	1.084	125	44	171	1.058	101	68.54	12192.6	11370.8
30-Nov-16 16:00:00	48	43	39	1.082	128	44	170	0.977	156	68.55	12193.7	11371.4
30-Nov-16 16:15:00	48	44	39	1.085	129	44	169	1.260	12	68.56	12194.7	11371.6
30-Nov-16 16:30:00	48	43	39	1.090	128	44	172	0.993	141	68.57	12196.0	11371.9
30-Nov-16 16:45:00	48	44	39	1.086	127	43	168	0.858	222	68.58	12197.4	11372.1
30-Nov-16 16:55:00	Raised 2" Orifice Plate.											
30-Nov-16 16:55:00	End of MP.											
30-Nov-16 17:00:00	48	43	39		128	43	169	1.118	66	68.60	12198.5	11372.3
30-Nov-16 17:02:28	Shut in well at production wing valve.											
30-Nov-16 17:03:00	Inflow test production wing valve.											
30-Nov-16 17:03:00	End of FP #6.											

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #1 Separator - Graph (a)

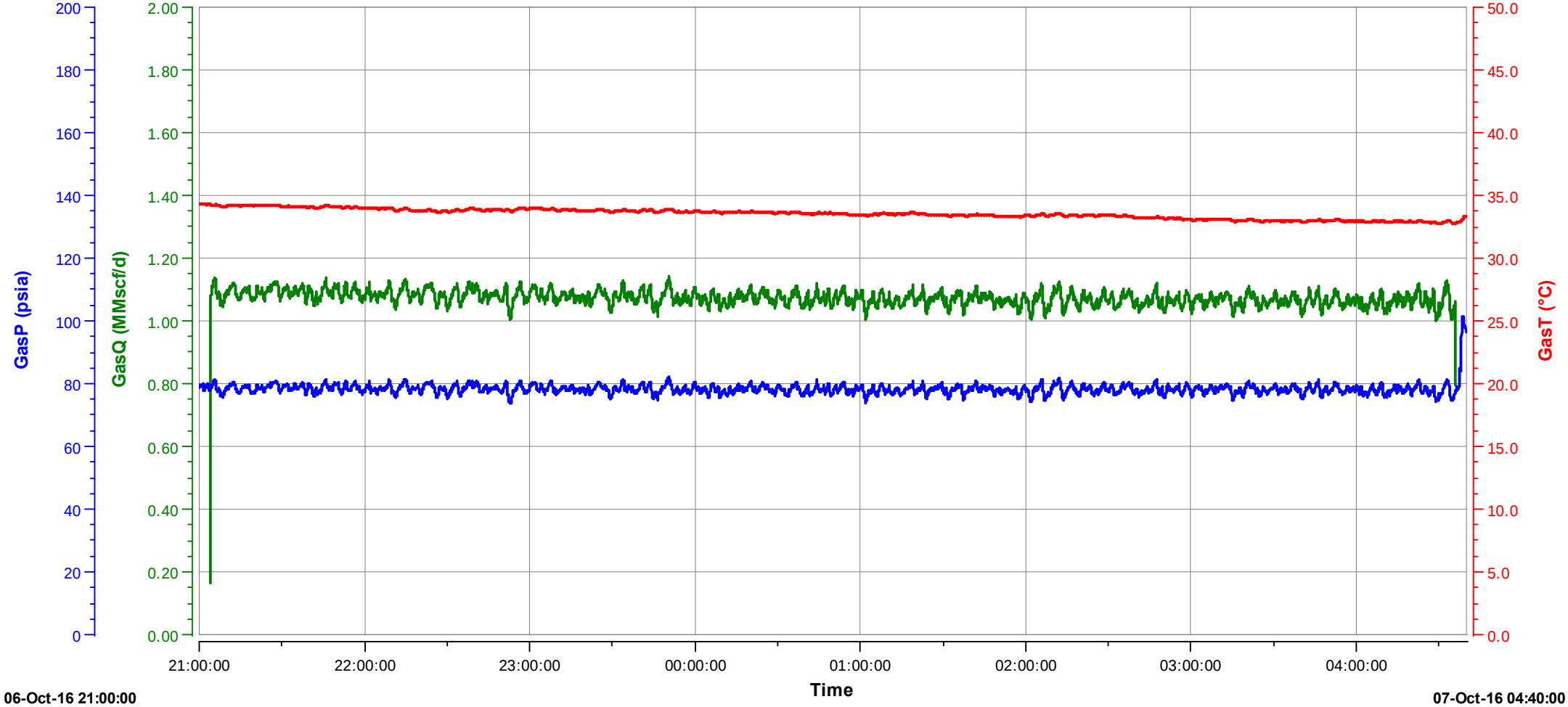
Flow on various choke sizes



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #1 Separator - Graph (b)

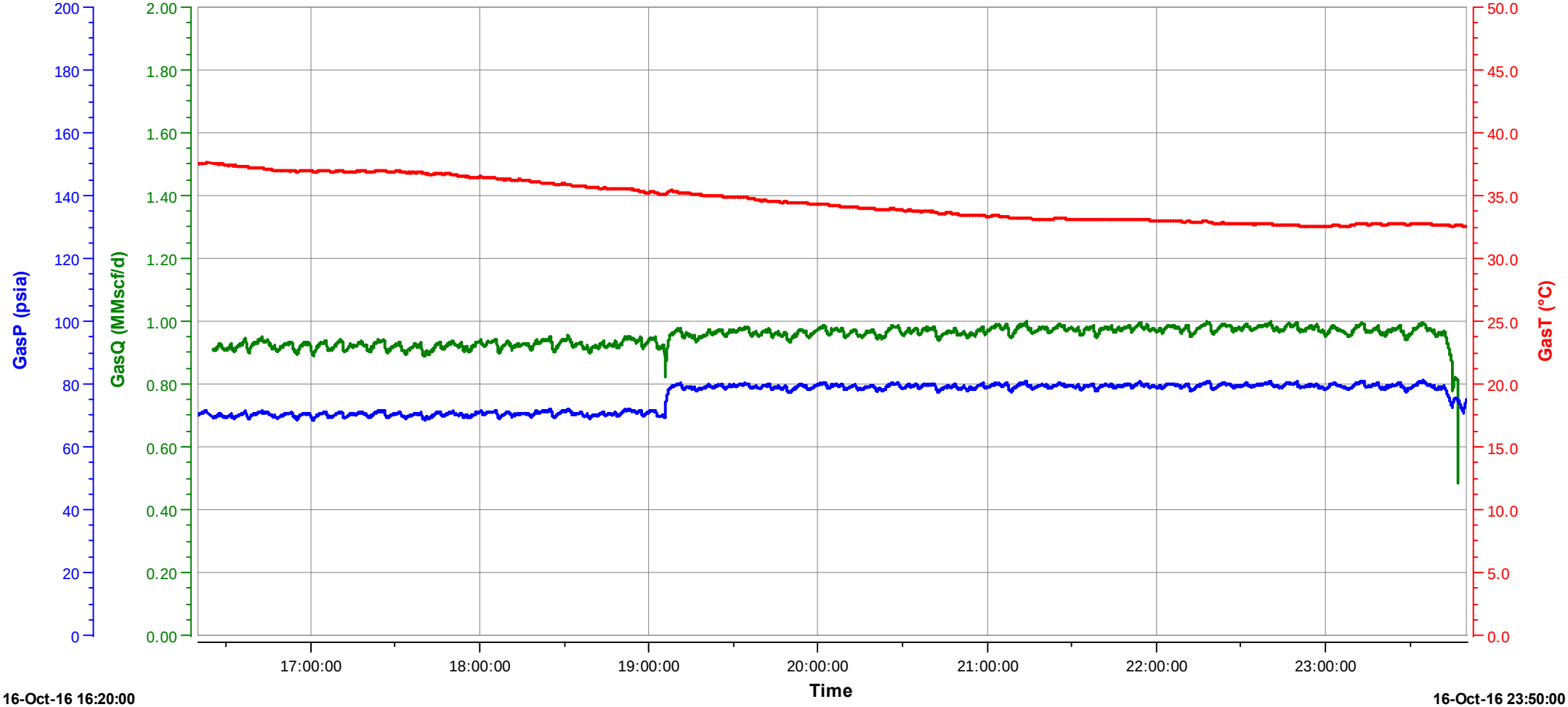
Flow on various choke sizes



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #1 Separator - Graph (c)

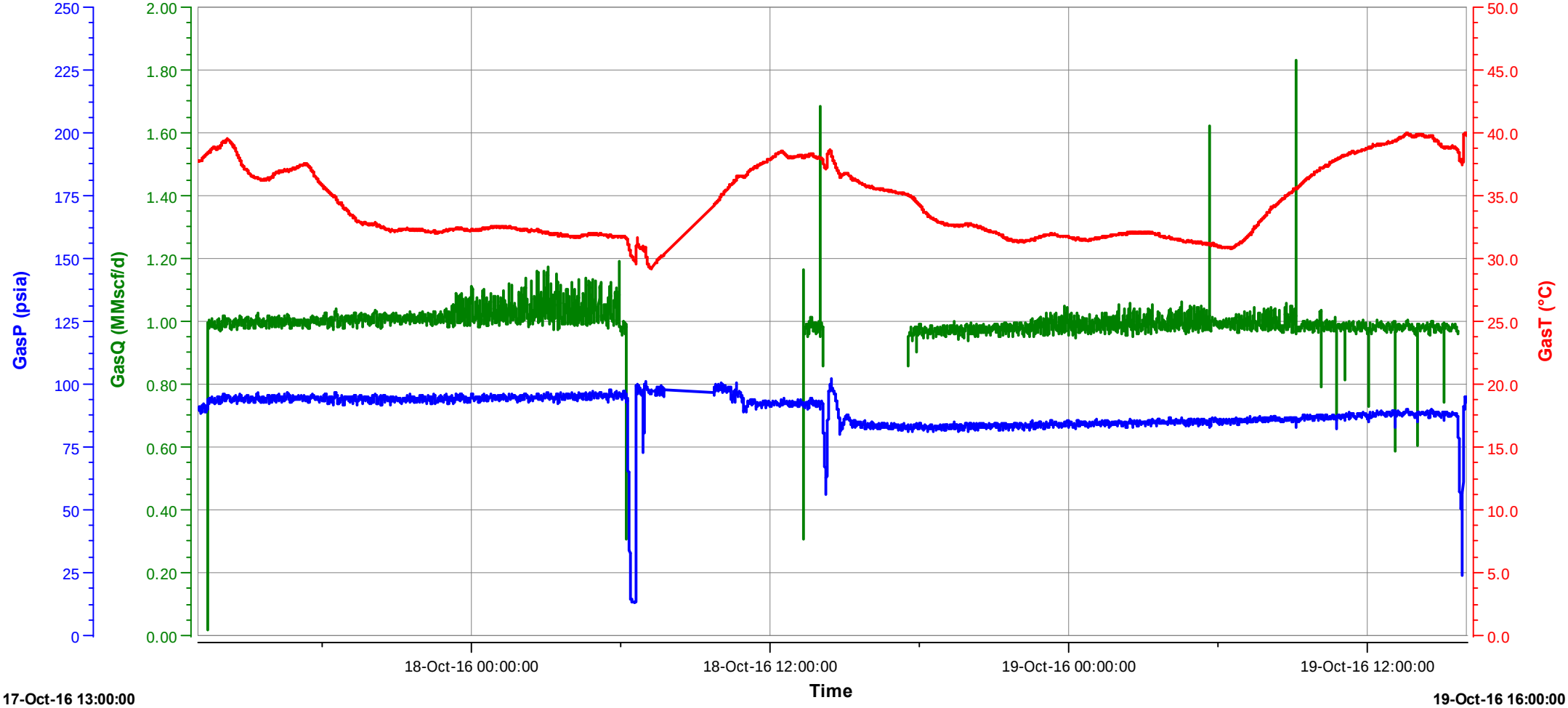
Flow on various choke sizes



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #1 Separator - Graph (d)

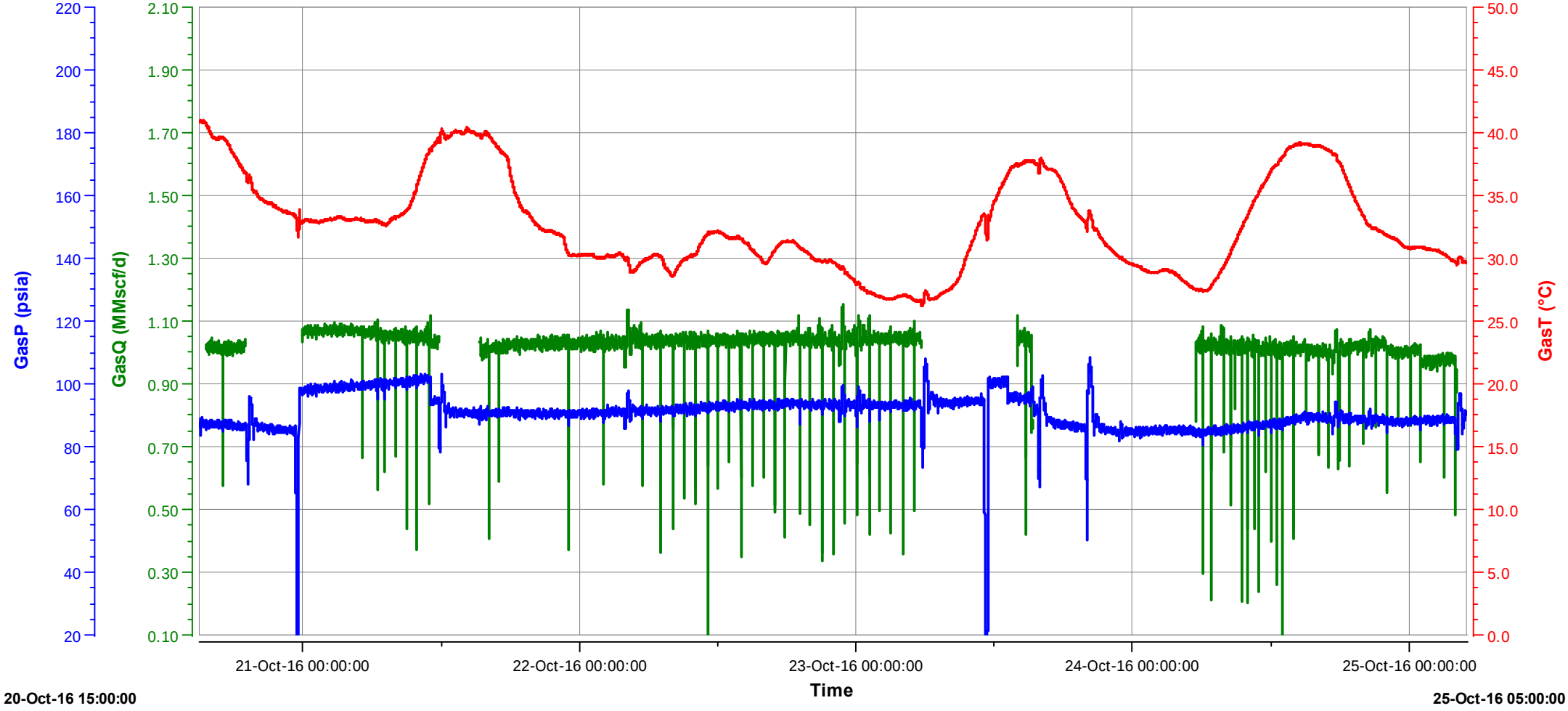
Flow on various choke sizes



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #2 Separator - Graph

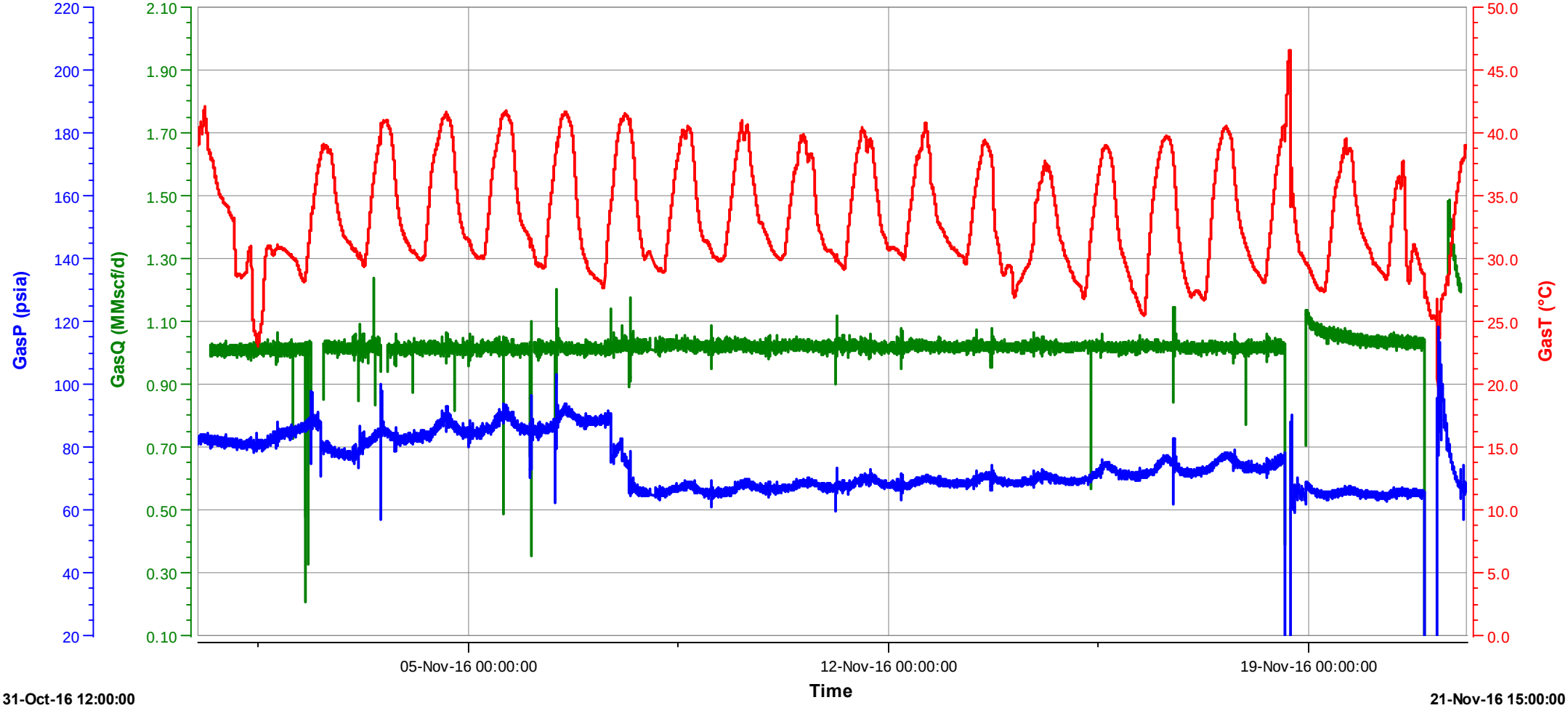
Flow on 32/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #3 Separator - Graph

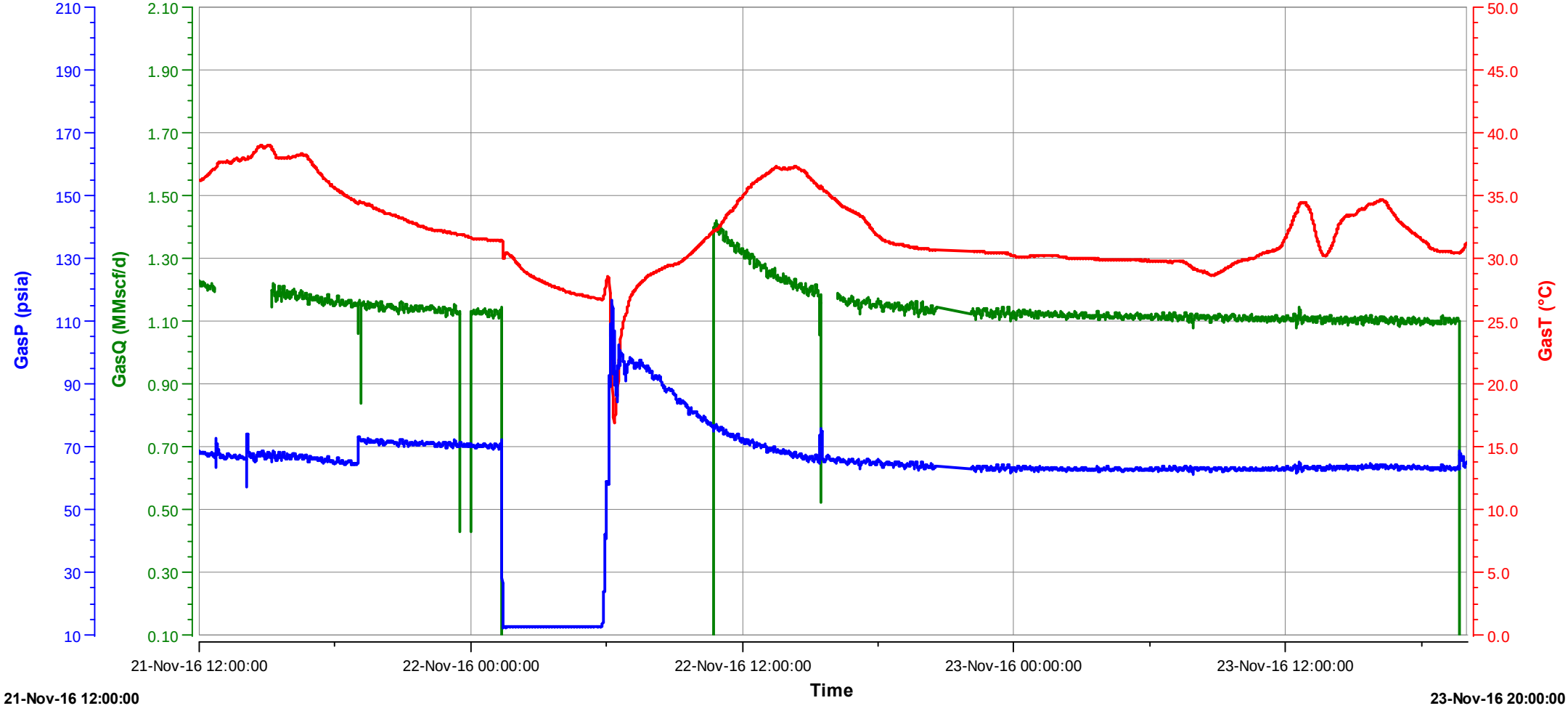
Flow on 36/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #4 Separator - Graph

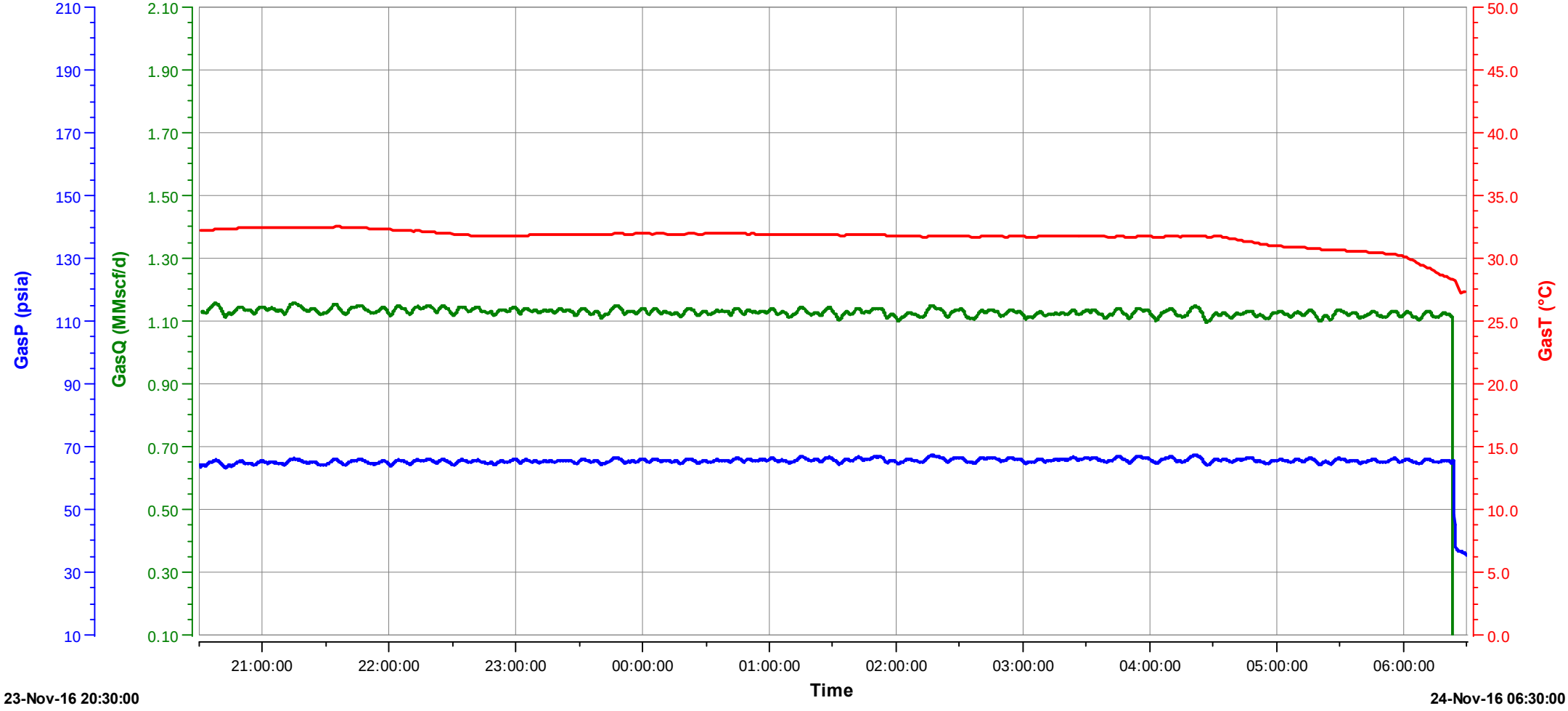
Flow on 40/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #5 Separator - Graph

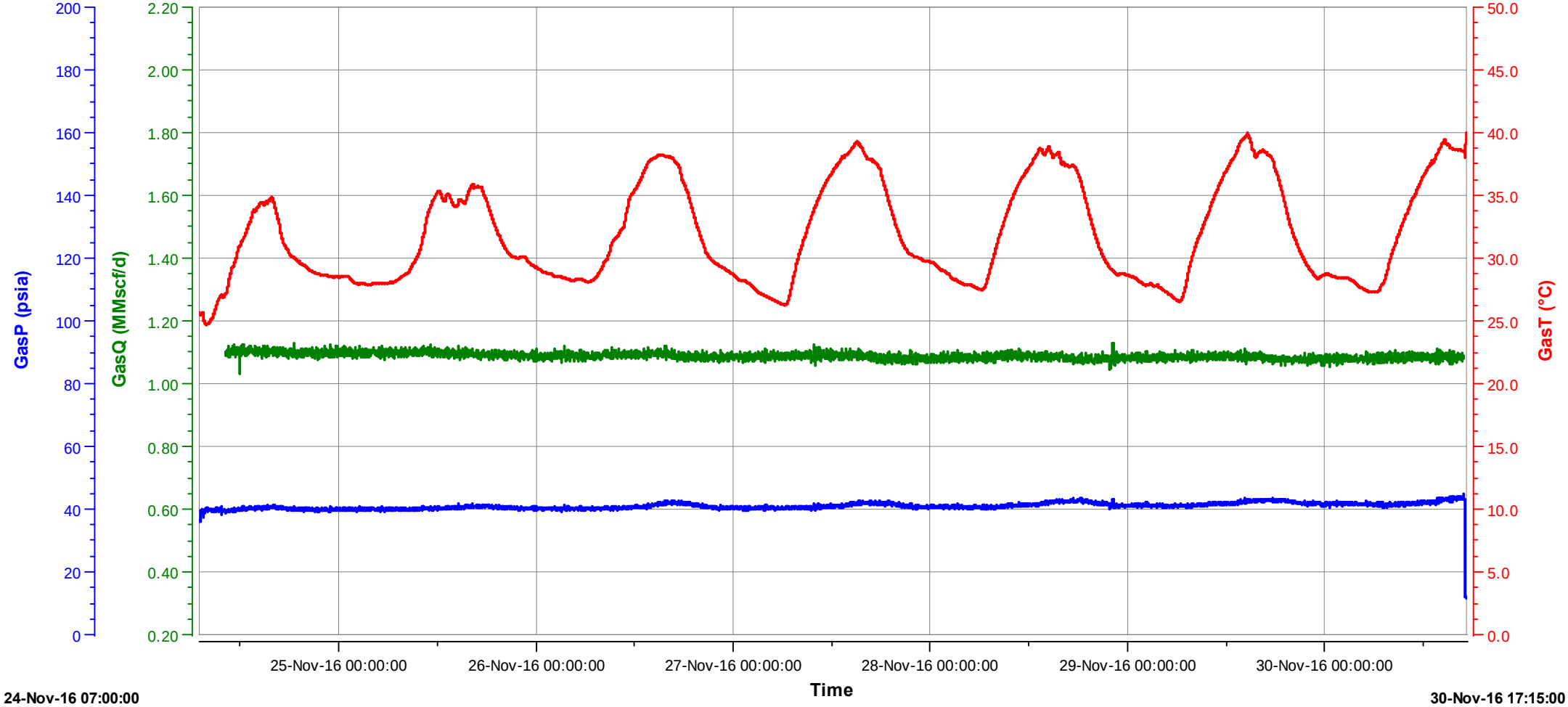
Flow on 128/64" Adjustable Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #6 Separator - Graph

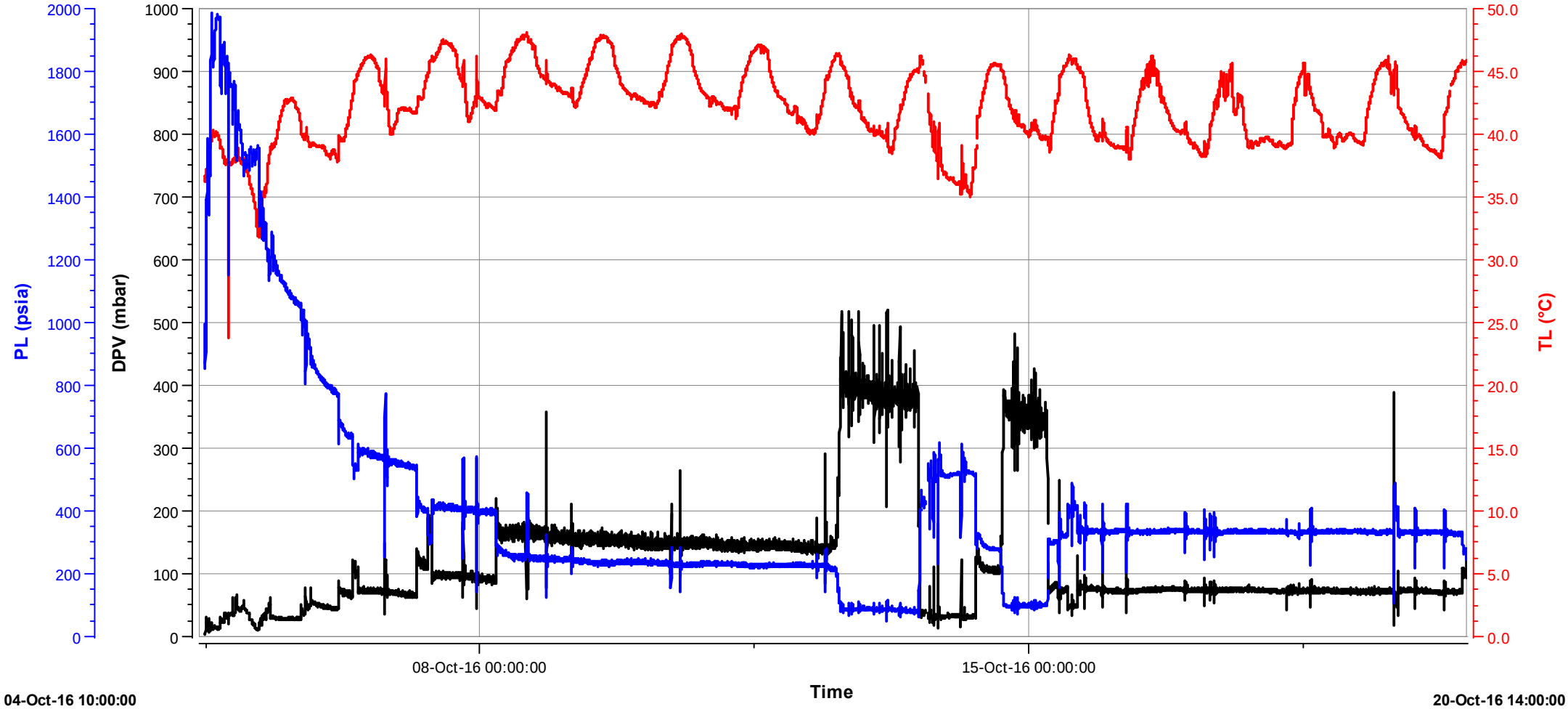
Flow on 48/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #1 Vx Flowing Condition - Graph

Flowing on various choke sizes

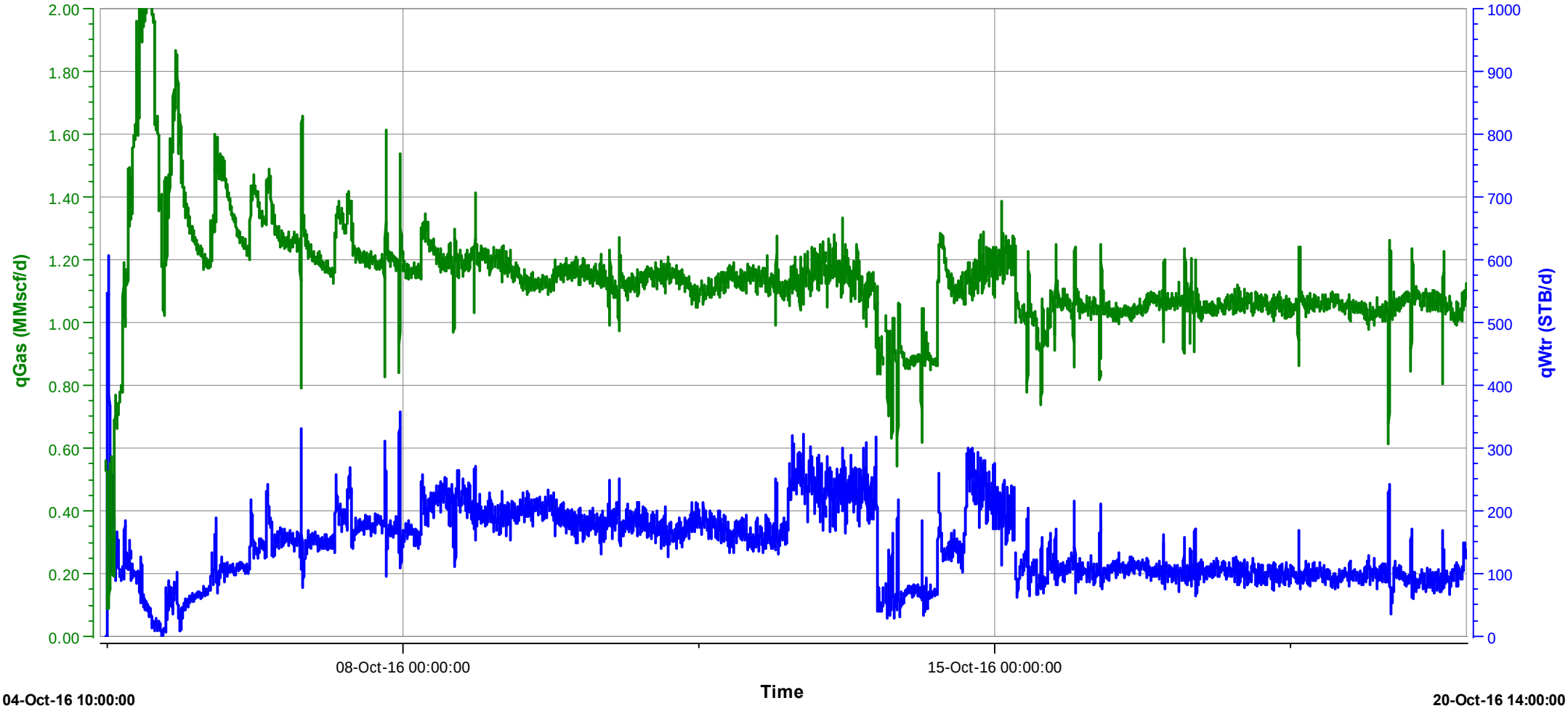


PL [Range : (0.00 : 2000 00) (psia)]
DPV [Range : (0 00 : 1000.00) (mbar)]
TL [Range : (0.00 : 50 00) (°C)]

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #1 Vx Flow Rates - Graph

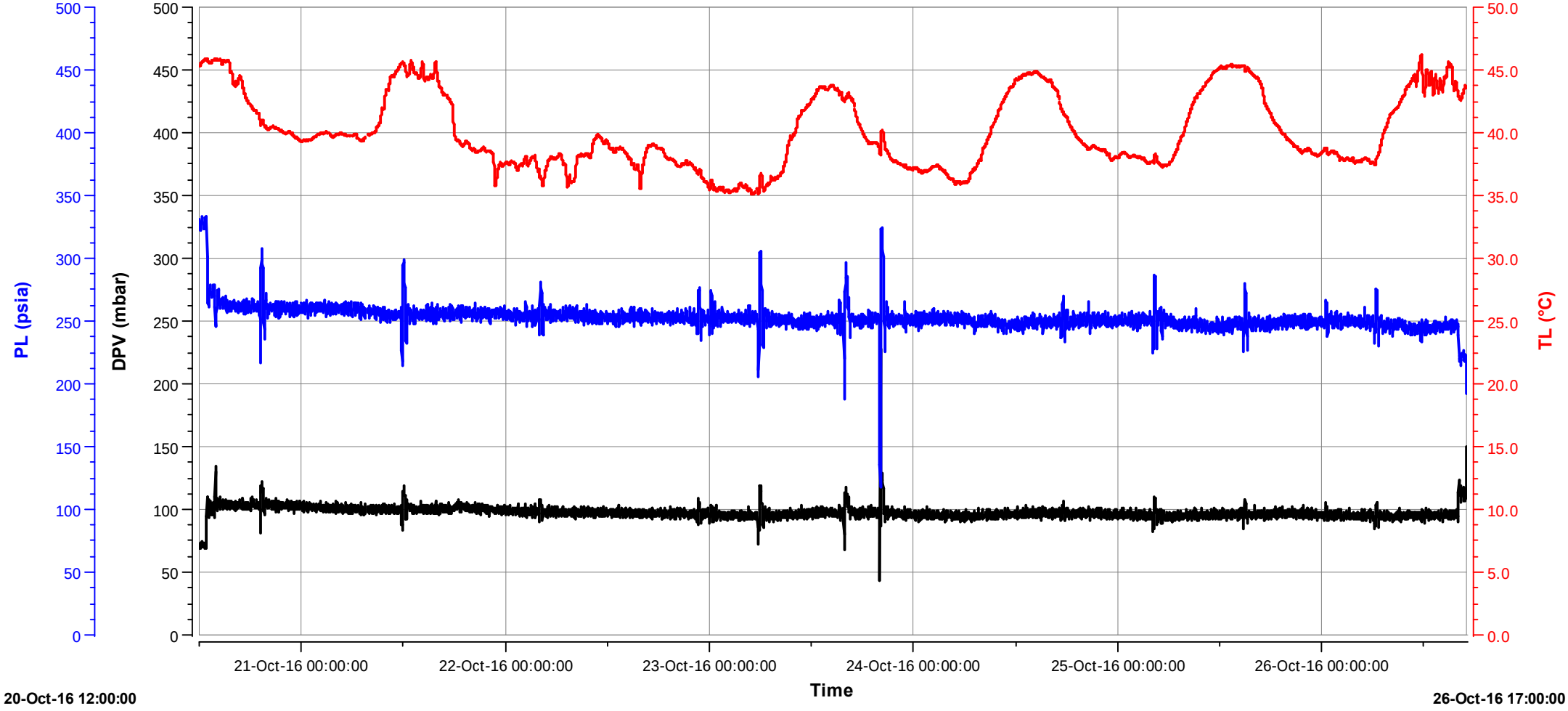
Flowing on various choke sizes



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #2 Vx Flowing Condition - Graph

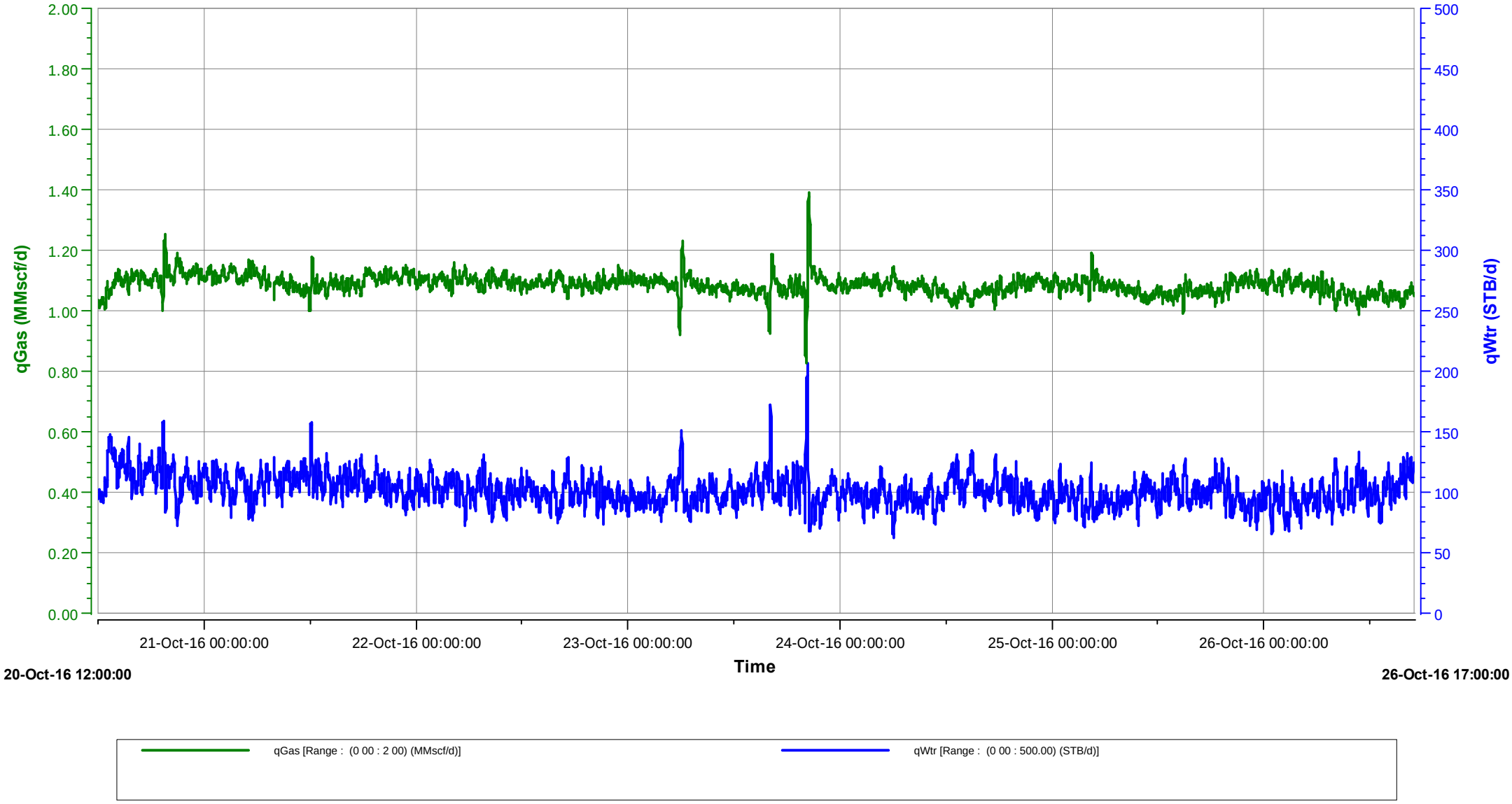
Flowing on 32/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #2 Vx Flow Rates - Graph

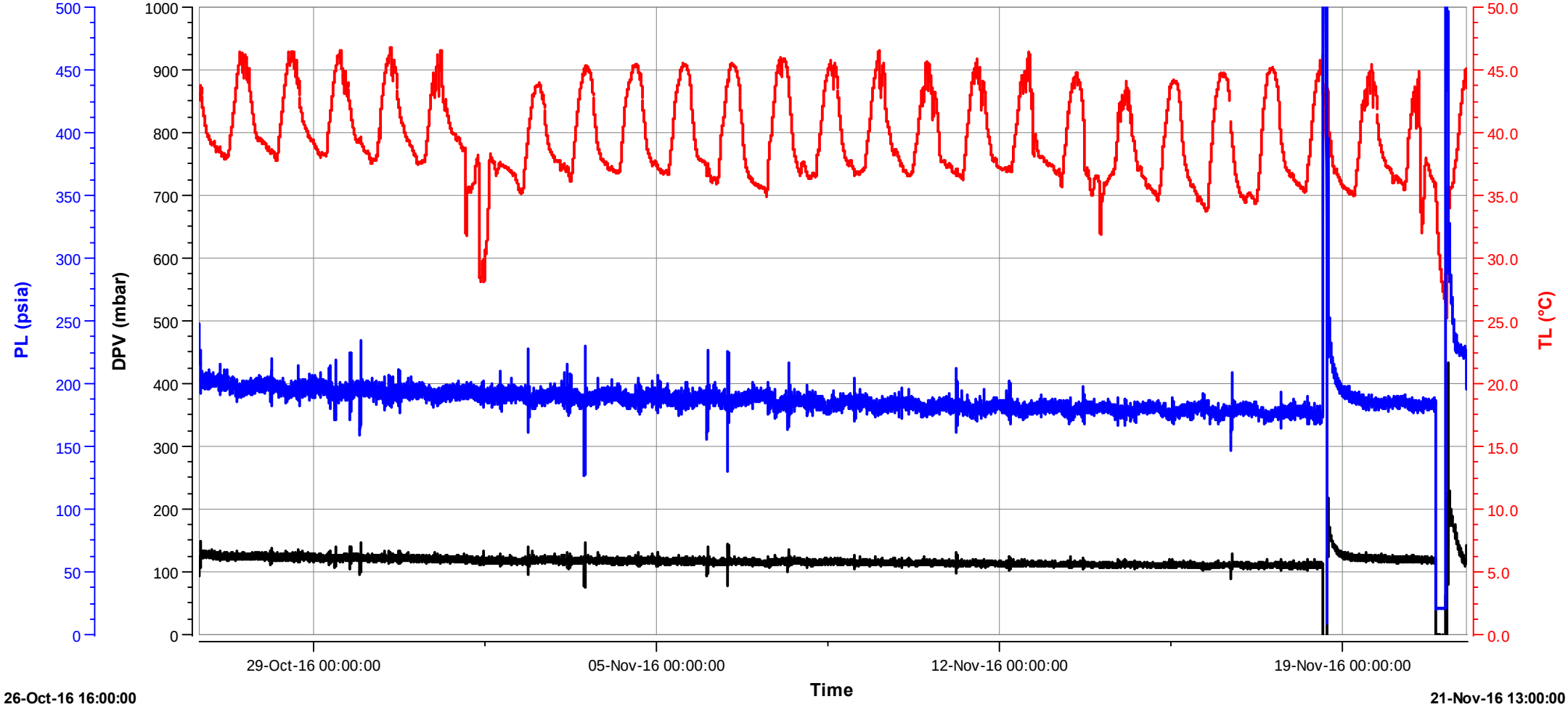
Flowing on 32/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #3 Vx Flowing Condition - Graph

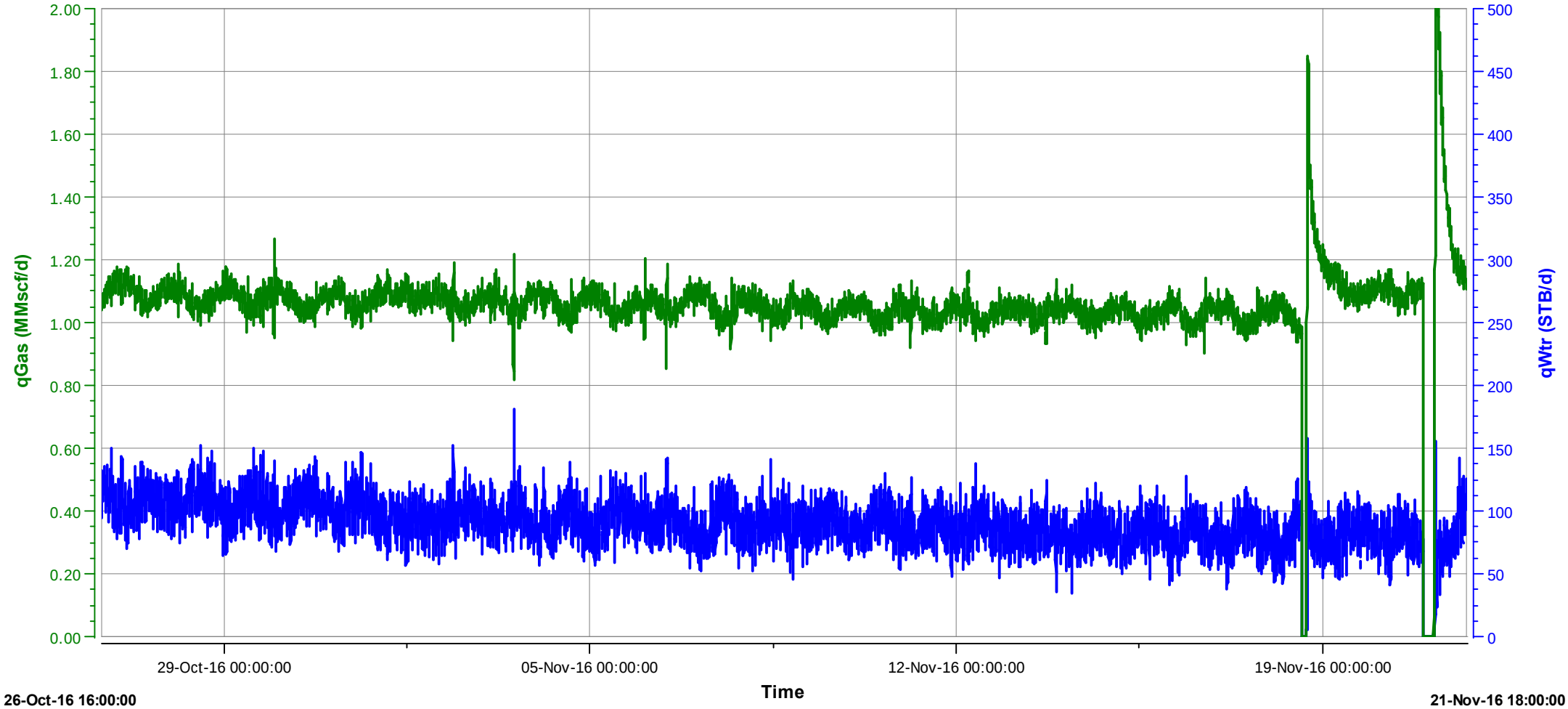
Flowing on 36/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #3 Vx Flow Rates - Graph

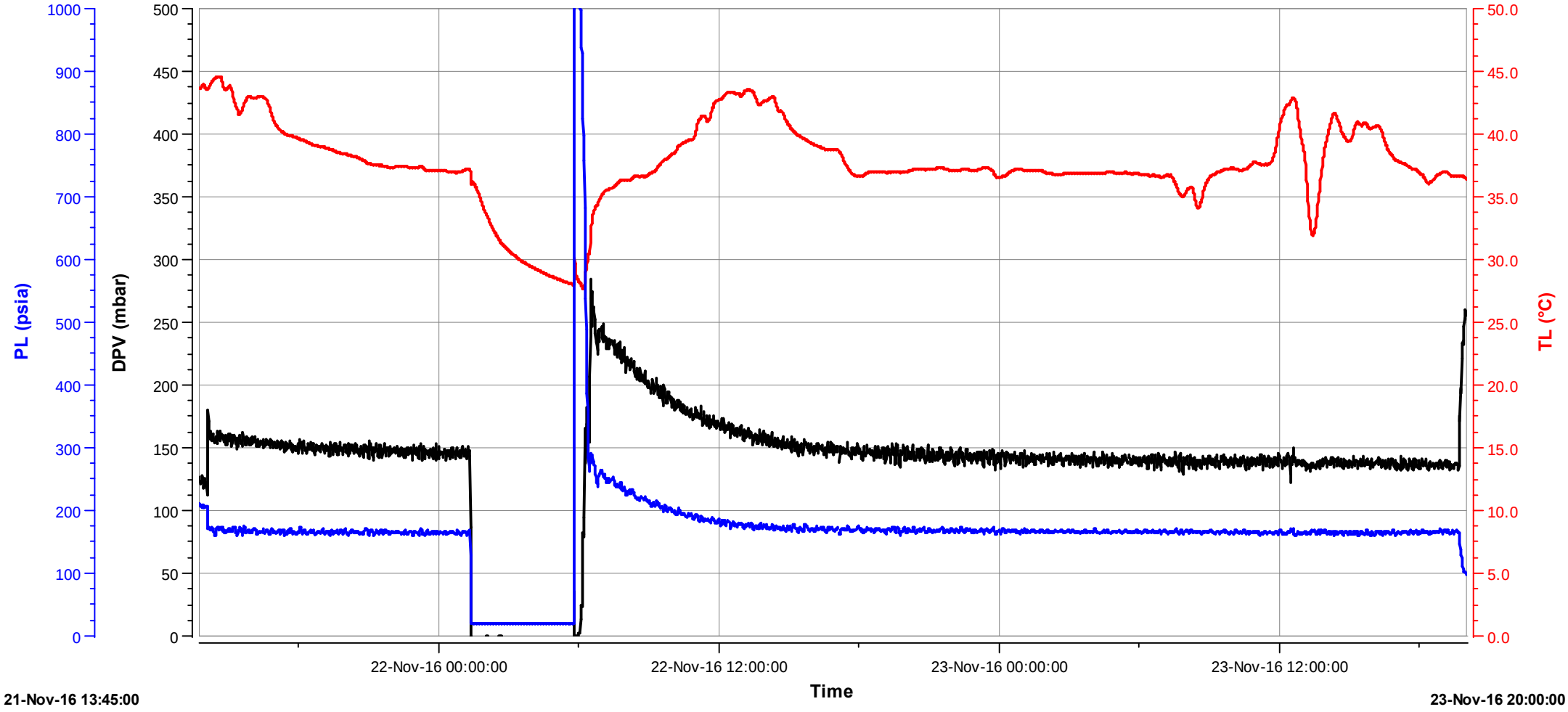
Flowing on 36/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #4 Vx Flowing Condition - Graph

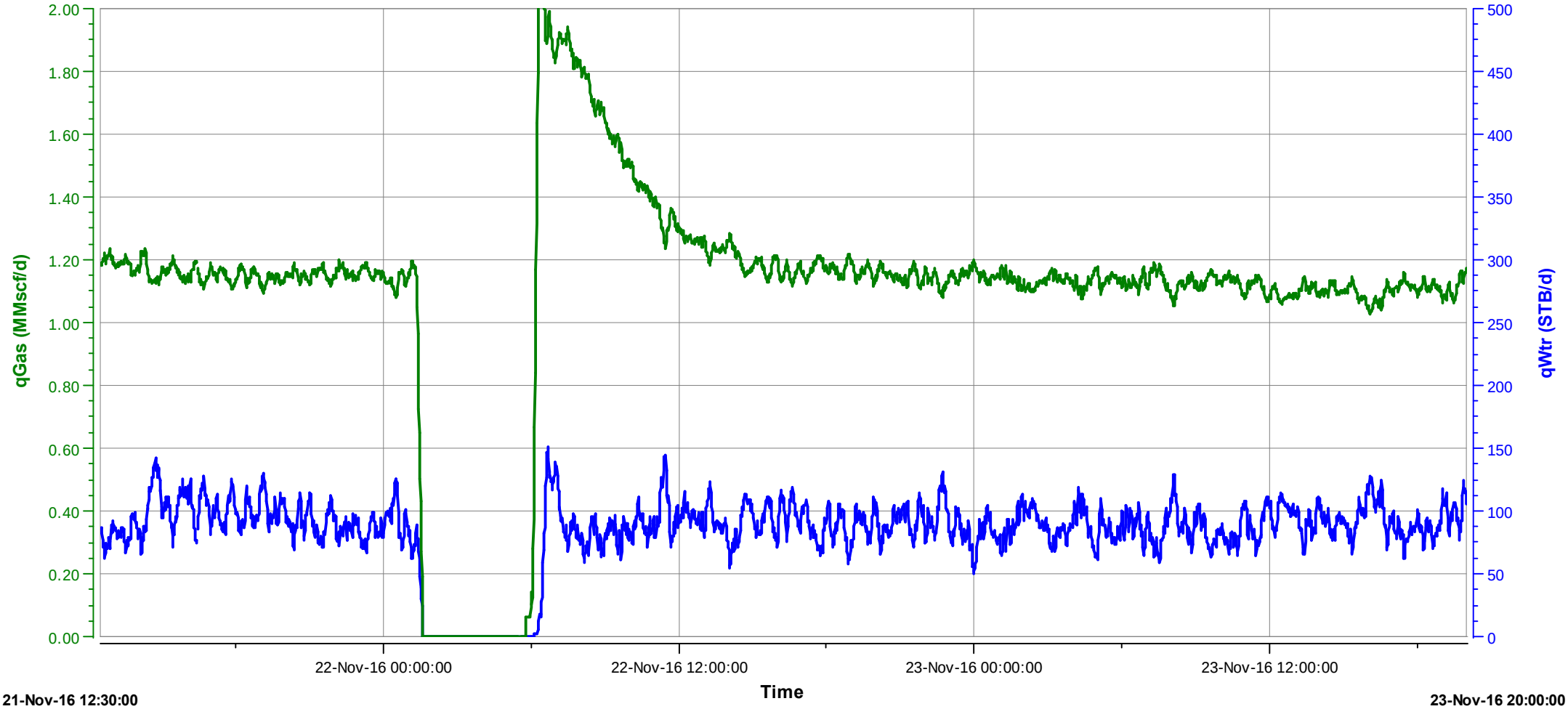
Flowing on 40/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #4 Vx Flow Rates - Graph

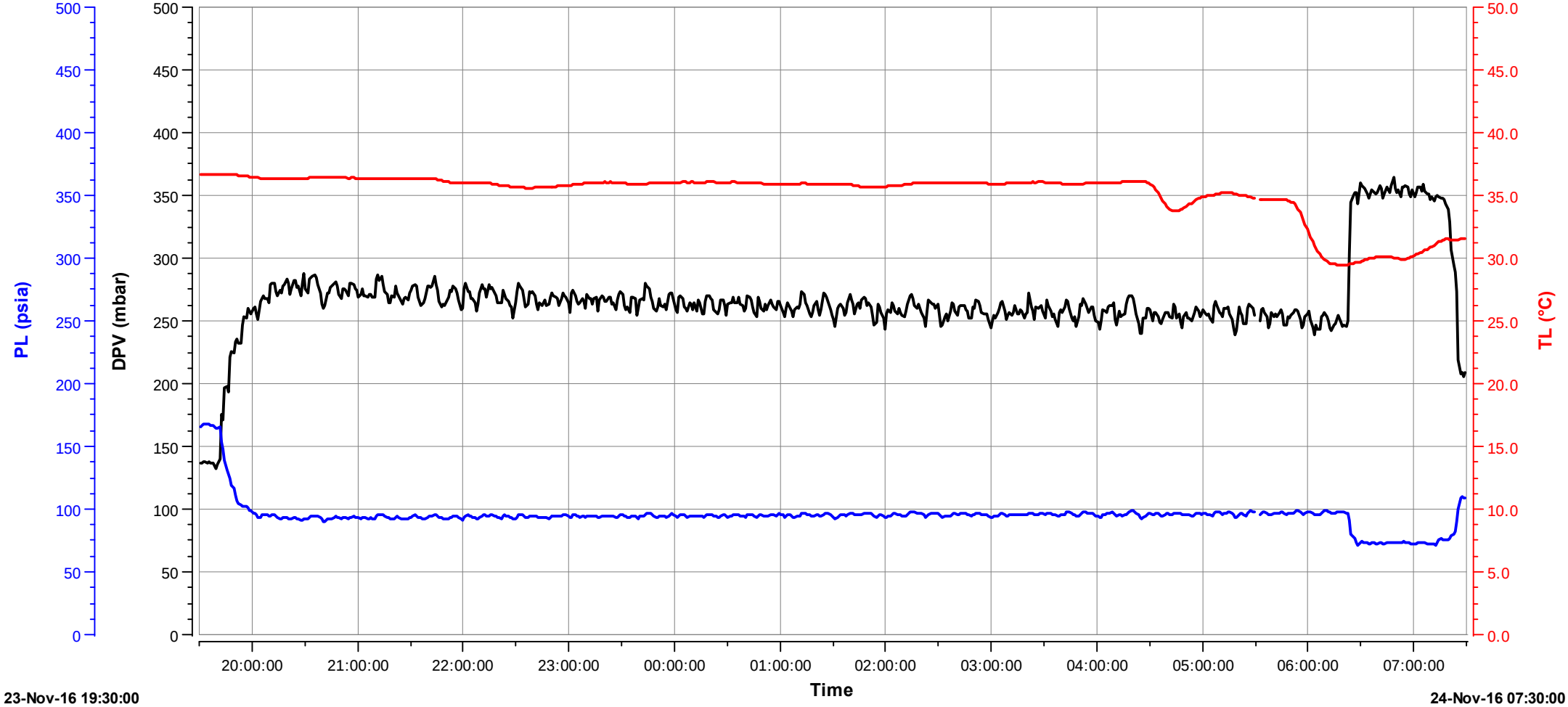
Flowing on 40/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #5 Vx Flowing Condition - Graph

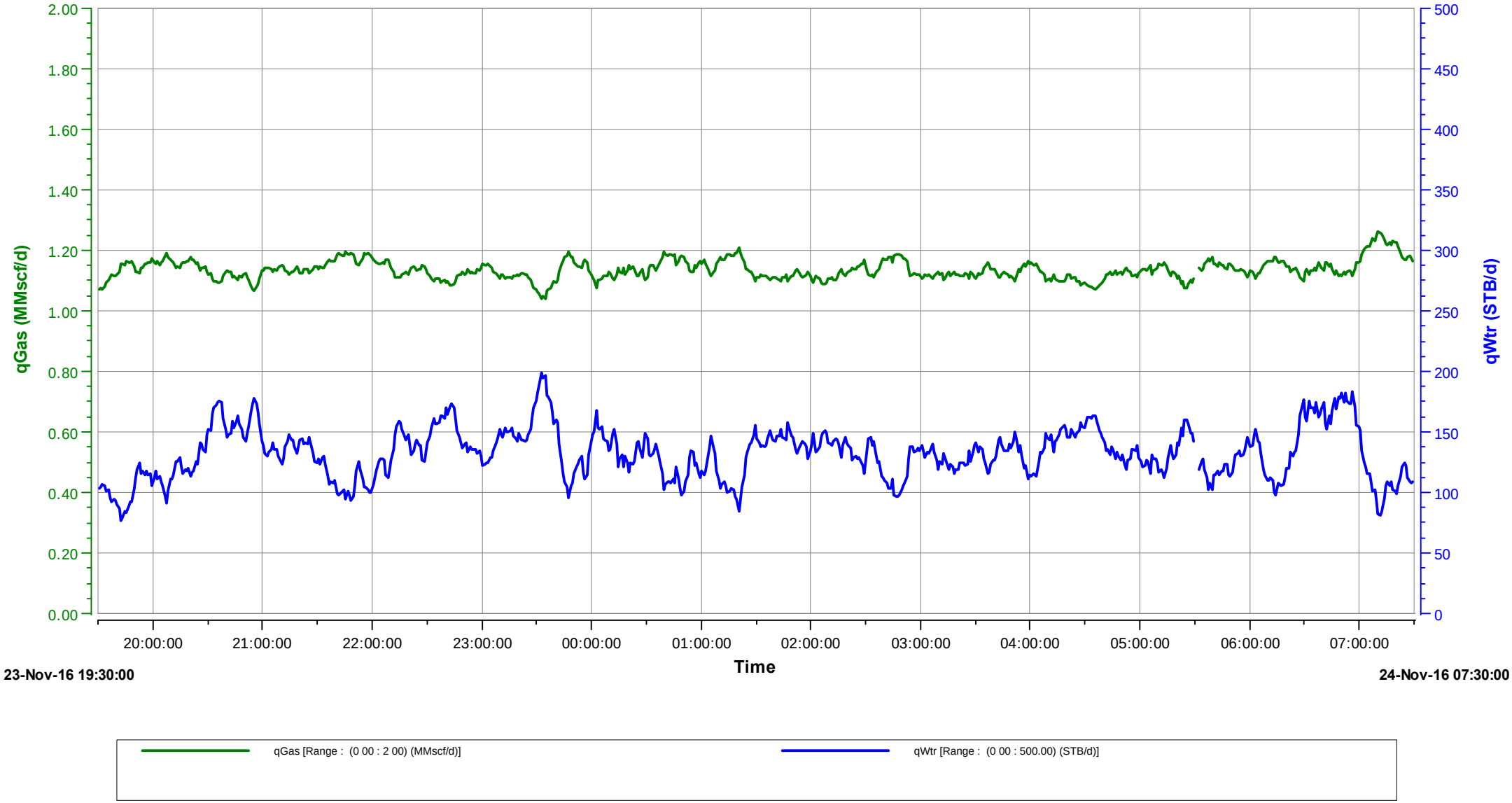
Flowing on 128/64" Adjustable Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #5 Vx Flow Rates - Graph

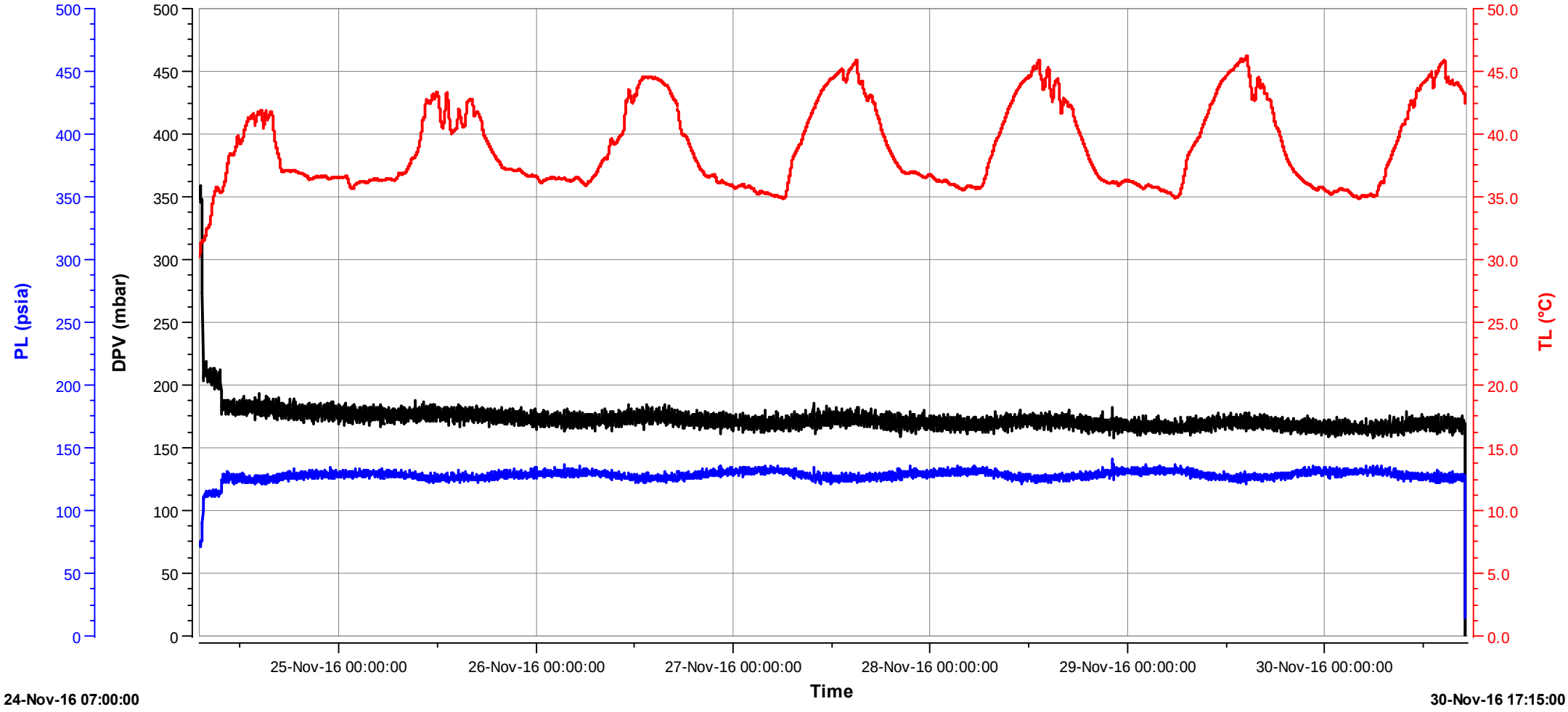
Flowing on 128/64" Adjustable Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #6 Vx Flowing Condition - Graph

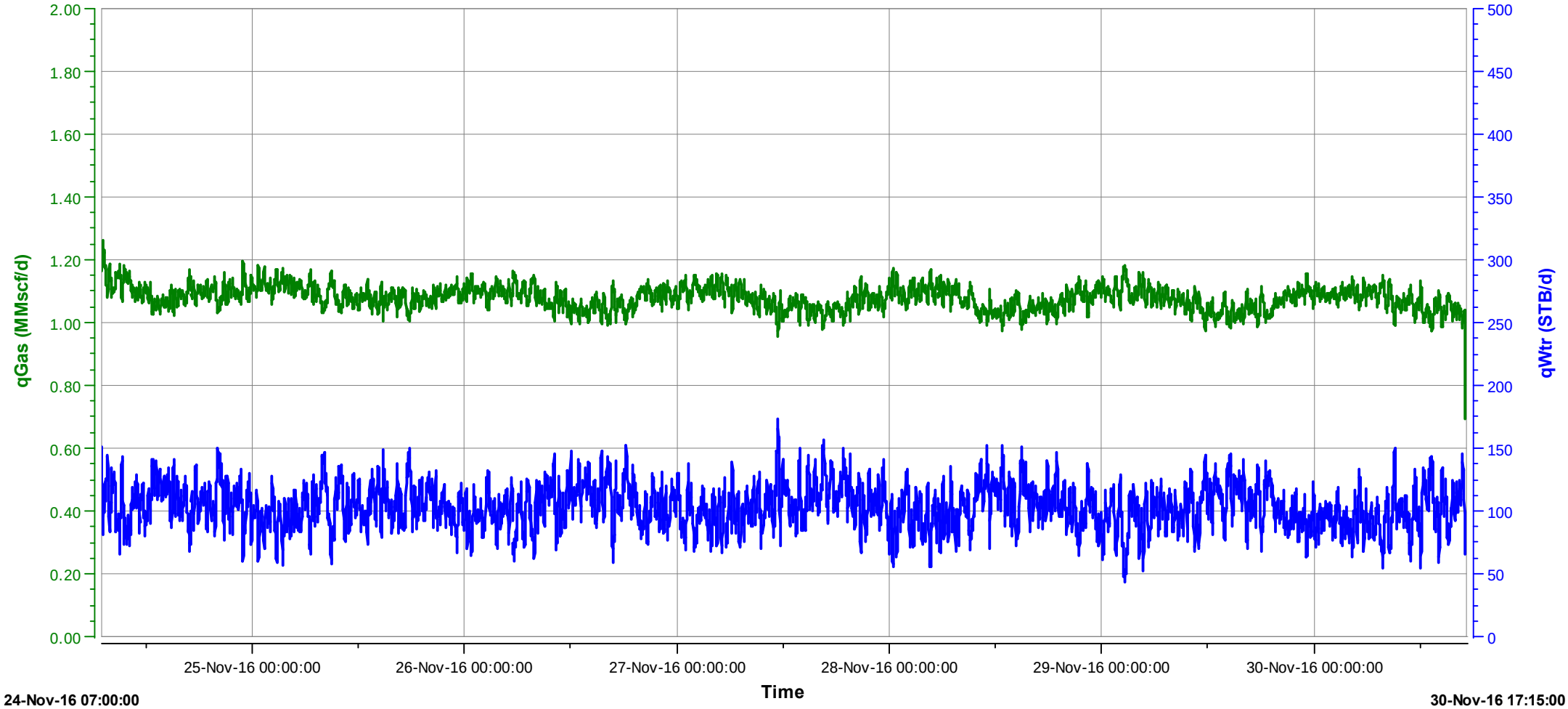
Flowing on 48/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

FP #6 Vx Flow Rates - Graph

Flowing on 48/64" Fixed Choke



Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Annex

Oil Company : Origin Energy
Country : Australia
Field : Beetaloo
Well : Amungee NW-1H
Test Type : Extended Production Test
Test Date : 4 Oct to 30 Nov 2016
Report Number : 2016-10

Client Representative : Edward Wong
Schlumberger Representative : Mark Robertson

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Gas Rate Formulas

GAS PRODUCTION MEASUREMENT INFORMATION

I. Flow Rate Measurements and Calculation

Gas rates are computed by the equation set out by the AGA Report No.3, Orifice Metering of Natural Gas.

$$\mathbf{GasQ = Fpb \times Ftb \times Fu \times Fb \times Ftf \times Fg \times Fpv \times Y \times \sqrt{GasP \times GasDP}}$$

GasQ : Gas flow rate at standard conditions (60 degF & 14.73 psi)
Fpb : Pressure base factor
Ftb : Temperature base factor
Fu : Unit factor
Fb : Basic orifice factor
Ftf : Flowing temperature factor
Fg : Specific gravity factor
Fpv : Supercompressibilty factor (variation from the ideal gas laws)
Y : Expansion factor (change in gas density across the orifice)
GasP : Gas pressure downstream the orifice plate (psia)
GasDP : Gas differential pressure across the orifice plate (inches of water, 60degF)

Remarks
Fpb = 1 when the rates are reported at standard conditions
Ftb = 1 when the rates are reported at standard conditions

TABLE of Fu FACTOR				
UNITS	**REFERENCE CONDITIONS**			
	60 degF	0 degC	15 degC	15 degC
	14.73 psia	760 mm Hg*	760 mm Hg*	750 mm Hg*
ft3 / hr	**1**	0.9483	1.0004	1.0137
ft3 / D	**24**	22.76	24.009	24.329
m3 / hr	**0.02832**	0.02685	0.02833	0.0287
m3 / D	**0.6796**	0.6445	0.6799	0.6889

* mercury at 32 F

II. Volume Calculation

The volume of gas at standard conditions is deduced from the rate as follows:

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Gas Rate Formulas

$$GasV(t) = GasV(t - \Delta t) + [\, GasQ(t) * \Delta t \,]$$

III. Meter Data

ID of meter tube : 5.761

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Gas Sampling Information

Sample #	Sample Date	Sample Time	Sample Nature	Chamber S/N	Sampling Point	Opening Pressure (psia @ °C)		Transfer Conditions (psig @ °C)		Final Pressure (psig @ °C)		Bottle Serial Number	Bottle Type	Sample Volume (cc)	Comments
16	04-Oct-16	16:00	Gas		Separator Gas line	60 psi	25 degC						Gas Isotube		Extended Well Test
17	05-Oct-16	16:00	Gas		Separator Gas line	78 psi	32 degC						Gas Isotube		Extended Well Test
18	06-Oct-16	16:00	Gas		Separator Gas line	84 psi	39 degC						Gas Isotube		Extended Well Test
19	07-Oct-16	16:00	Gas		Separator Gas line	60 psi	43 degC						Gas Isotube		Extended Well Test
20	08-Oct-16	16:00	Gas		Separator Gas line	75 psi	45 degC						Gas Isotube		Extended Well Test
21	09-Oct-16	16:00	Gas		Separator Gas line	75 psi	46 degC						Gas Isotube		Extended Well Test
22	10-Oct-16	16:00	Gas		Separator Gas line	65 psi	46 degC						Gas Isotube		Extended Well Test
23	11-Oct-16	16:00	Gas		Separator Gas line	65 psi	46 degC						Gas Isotube		Extended Well Test
24	12-Oct-16	16:00	Gas		Separator Gas line	33 psi	39 degC						Gas Isotube		Extended Well Test
25	13-Oct-16	16:00	Gas		Separator Gas line	70 psi	36 degC						Gas Isotube		Extended Well Test
26	14-Oct-16	16:00	Gas		Separator Gas line	32.1psi	38.4 degC						Gas Isotube		Extended Well Test
27	15-Oct-16	16:00	Gas		Separator Gas line	71 psi	39.1 degC						Gas Isotube		Extended Well Test
28	16-Oct-16	16:00	Gas		Separator Gas line	69.5 psi	37.9 degC						Gas Isotube		Extended Well Test
29	17-Oct-16	16:00	Gas		Separator Gas line	94 psi	36.7 degC						Gas Isotube		Extended Well Test
30	18-Oct-16	16:00	Gas		Separator Gas line	82.9 psi	35.6 degC						Gas Isotube		Extended Well Test
31	19-Oct-16	16:00	Gas		Separator Gas line	83.8 psi	36.5 degC						Gas Isotube		Extended Well Test
32	20-Oct-16	16:00	Gas		Separator Gas line	86 psi	40 degC						Gas Isotube		Extended Well Test
33	21-Oct-16	16:00	Gas		Separator Gas line	90.9 psi	38.7 degC						Gas Isotube		Extended Well Test
34	22-Oct-16	16:00	Gas		Separator Gas line	93 psi	31 degC						Gas Isotube		Extended Well Test
35	27-Oct-16	17:00	Gas		Separator Gas line	79.8 psi	40 degC						Gas Isotube		Extended Well Test
36	01-Nov-16	17:00	Gas		Separator Gas line	82.5 psi	31 degC						Gas Isotube		Extended Well Test
37	06-Nov-16	14:00	Gas		Separator Gas line	91.9 psi	41.4 degC						Gas Isotube		Extended Well Test
38	11-Nov-16	14:00	Gas		Separator Gas line	69.5 psi	40 degC						Gas Isotube		Extended Well Test
39	17-Nov-16	17:00	Gas		Separator Gas line	76psia	39.3degC						Gas Isotube		Extended Well Test
40	30-Nov-16	15:00	Gas		Separator Gas line	44psi	38.5degC						Gas Isotube		Extended Well Test

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Water Sampling Information

Sample #	Sample Date	Sample Time	Sample Nature	Chamber S/N	Sampling Point	Opening Pressure (psig @ °C)	Transfer Conditions (psig @ °C)	Final Pressure (psig @ °C)	Bottle Serial Number	Bottle Type	Sample Volume (cc)	Comments
2	05-Oct-16	20:30	Water	Set#2	Separator Oil line					ALS bottle		Extended Well Test
3	07-Oct-16	18:20	Water	Set#3	Separator Oil line					ALS bottle		Extended Well Test
4	19-Oct-18	8:00	Water	Set#4	Separator Oil line					ALS bottle		Extended Well Test
5	22-Oct-16	11:00	Water	Set#5	Separator Oil line					ALS bottle		Extended Well Test
6	25-Oct-16	15:00	Water	Set#6	Separator Oil line					ALS bottle		Extended Well Test
7	30-Oct-16	16:00	Water	Set#7	Separator Oil line					ALS bottle		Extended Well Test
8	02-Nov-16	10:00	Water	Set#8	Separator Oil line					ALS bottle		Extended Well Test, 9911bbl, PH 6.26, EC 61.07mS @ 29.7degC
9	05-Nov-16	10:00	Water	Set#9	Separator Oil line					ALS bottle		Extended Well Test, 10129bbl, PH 6.1, EC 66.15mS @ 33.4degC
10	08-Nov-16	10:30	Water	Set#10	Separator Oil line					ALS bottle		Extended Well Test, 10334bbl, PH 6.1, EC 65.6mS @ 31.1degC
11	11-Nov-16	10:00	Water	Set#11	Separator Oil line					ALS bottle		Extended Well Test, 10512bbl, PH 6.3, EC 67.14mS @ 31.2degC
12	17-Nov-16	10:00	Water	Set#12	Separator Oil line					ALS bottle		Extended Well Test, 10825bbl, PH 6.1, EC 61.46mS @ 26.4degC
13	20-Nov-16	11:00	Water	Set#13	Separator Oil line					ALS bottle		Extended Well Test, 10958bbl, PH 6.1, EC 65 846mS @ 30.4degC
14	23-Nov-16	11:00	Water	Set#14	Separator Oil line					ALS bottle		Extended Well Test, 110712bbl, PH 6., EC 61.438mS @ 27.6degC
15	26-Nov-16	11:00	Water	Set#15	Separator Oil line					ALS bottle		Extended Well Test, 112072bbl, PH 6.6, EC 66.7mS @ 29.6degC
16	28-Nov-16	16:00	Water	Set#16	Separator Oil line					ALS bottle		Extended Well Test, 11296bbl, PH 6.3, EC 73.77mS @ 34.2degC
17	30-Nov-16	15:00	Water	Set#17	Separator Oil line					ALS bottle		Extended Well Test, 11369bbl, PH 6.3, EC 74.6mS @ 35degC

Copyright © 2003-2014 Schlumberger. DART Version 2015 3

Nomenclature

CU VAR	Clean Up on Various choke sizes
APIGR	Oil gravity in degrees
BSW	Base Sediment and Water
CHOKE	Well Head Choke Diameter
CO2	CO2 in gas
DEPTH	Depth into well from the reference
GASGR	Gas Gravity
GASDP	Differential Pressure across the Daniel orifice
GASP	Gas pressure downstream the Daniel orifice
GASQ	Gas flow rate at Standard Conditions
GAST	Gas temperature at the Daniel Gas Meter
GASV	Cumulative gas production at Standard Conditions
GOR	Gas to Oil Ratio at Standard Conditions
H2S	H2S in gas
OILQ	Oil flow rate at Standard Conditions
OILSG	Oil Specific Gravity
OILSGT	Oil Specific Gravity Temperature
OILSG60	Oil Specific Gravity at 60 degF
OILT	Oil Temperature measured at separator oil line
OILV	Cumulative oil production at Standard Conditions
OILV1	Cumulative oil production from the Floco Meter at Standard Conditions
OILV2	Cumulative oil production from the Rotron Meter at Standard Conditions
ORMDIAM	Orifice Diameter In Daniel Gas Meter
PIPEDIAM	Internal Diameter of pipe on Daniel Gas Meter
SHR	Shrinkage
SHRK	Shrinkage Factor
SHRT	Shrinkage Temperature
WHDCP	Well Head Down Choke Pressure
WHP	Well Head Pressure
WHT	Well Head Temperature
CSGP	Casing Pressure
Ucp	Upstream Choke Pressure
Uct	Upstream Choke Temperature
Dct	Downstream Choke Temperature
UpSand	Upstream Sandfilter Pressure
SWT	Surface Well Testing
CM	Choke Manifold
WCT	Well Test Choke Manifold
ID	Internal Diameter
OD	Outside Diameter
FP	Flow Period
POOH	Pull Out Of Hole
RIH	Run In Hole
STAN	Surface Testing Acquisition Network
STAF	Surface Testing Acquisition Front End
CT	Coiled Tubing
SSV	Surface Safety Valve
PCE	Pressure Control Equipment

Copyright © 2003-2014 Schlumberger. DART Version 2015.3

Nomenclature

BOP	Blow Out Preventer
TBT	Tool Box Talk
JSA	Job Safety Analysis
PJSM	Pre Job Safety Meeting
DFIT	Diagnostic Fracture Injection Test
FPDO	Frac Plug Drill Out
LP	Low Pressure
HP	High Pressure
LHS	Left Hand Side
RHS	Right Hand Side
HMV	Hydraulic Master Valve
WH	Well Head
BPH	Barrel Per Hour
BPD	Barrel Per Day

Copyright © 2003-2014 Schlumberger. DART Version 2015.3