



Client: Origin
 Well: Amungee NW-1H STAGE 1
 Basin/Field: Northern Territory
 State: Northern Territory
 County/Parish: 6896332
 Case: Post-Job
 Disclosure Type: 8/26/2016
 Stage Completed: 9/6/2016 1:06 PM
 Date Prepared: RPT-44406
 Report ID:

Fluid Description(s)	
Slickwater and Gel Flush	191,940 Gal Contains: Water, Surfactant F112, Acid H015, Gelling Agent J580, Friction Reducer J609W, Scale Inhibitor L065, Clay Control Agent L071, Bactericide M275, Propping Agent S012, Fluid Loss Additive S100

The total volume listed in the tables above represents the summation of water and additives. Water is supplied by client.

CAS Number	Chemical Name	Mass Fraction	Mass (kg)	Volume (L)	Volume
-	Water (Including Mix Water Supplied by Client)*	93.14867%	724,450.44	724,449.62	97.10031%
57-13-6	Urea	0.00064%	4.98	5.79	0.00078%
64-02-8	Tetrasodium ethylenediaminetetraacetate	0.00002%	0.16	0.12	0.00002%
67-48-1	2-hydroxy-N,N,N-trimethylethanaminium chloride	0.14004%	1,089.14	990.13	0.13271%
67-63-0	Propan-2-ol	0.00016%	1.24	1.58	0.00021%
79-06-1	2-Propenamid (impurity)	0.00003%	0.23	0.21	0.00003%
107-21-1	Ethylene glycol	0.01005%	78.16	87.92	0.01178%
111-46-6	2,2''-oxydiethanol (impurity)	0.00010%	0.78	0.48	0.00006%
540-97-6	Dodecamethylcyclohexasiloxane	0.00001%	0.08	0.04	0.00000%
541-02-6	Decamethyl cyclopentasiloxane	0.00001%	0.08	0.04	0.00000%
556-67-2	Octamethylcyclotetrasiloxane	0.00001%	0.08	0.04	0.00000%
1310-73-2	Sodium hydroxide (impurity)	0.00005%	0.39	0.18	0.00002%
2682-20-4	2-methyl-2h-isothiazol-3-one	0.00011%	0.86	0.68	0.00009%
7447-40-7	Potassium chloride (impurity)	0.00003%	0.23	0.12	0.00002%
7631-86-9	Non-crystalline silica (impurity)	0.00015%	1.17	0.49	0.00007%
7647-01-0	Hydrochloric acid	0.05413%	420.99	350.82	0.04702%
7647-14-5	Sodium chloride	0.00190%	14.78	6.83	0.00091%
7757-82-6	Sodium sulfate	0.00015%	1.17	0.59	0.00008%
7758-98-7	Copper(II) sulfate	0.00001%	0.08	0.04	0.00001%
7783-20-2	Ammonium sulfate	0.01328%	103.28	102.26	0.01371%
7786-30-3	Magnesium chloride	0.00035%	2.72	1.17	0.00016%
9000-30-0	Guar gum	0.00587%	45.65	65.22	0.00874%
10043-52-4	Calcium Chloride	0.00096%	7.47	5.22	0.00070%
10377-60-3	Magnesium nitrate	0.00071%	5.52	6.21	0.00083%
14464-46-1	Cristobalite	0.00007%	0.54	0.21	0.00003%
14808-60-7	Quartz, Crystalline silica	6.58792%	51,236.60	19,706.36	2.64131%
26172-55-4	5-chloro-2-methyl-2h-isothiazol-3-one	0.00038%	2.96	2.36	0.00032%
31726-34-8	Polyethylene glycol monoethyl ether	0.01903%	148.00	144.82	0.01941%
38193-60-1	Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	0.00980%	76.22	57.18	0.00766%
61789-77-3	Dicoco dimethyl quaternary ammonium chloride	0.00079%	6.14	6.14	0.00082%
63148-62-9	Dimethyl siloxanes and silicones	0.00001%	0.08	0.08	0.00001%
67762-90-7	Siloxanes and silicones, dimethyl, reaction products with silica	0.00001%	0.08	0.10	0.00001%
91053-39-3	Diatomaceous earth, calcined	0.00353%	27.45	58.41	0.00783%
129898-01-7	2-Propenoic acid, polymer with sodium phosphinate	0.00940%	73.11	28.12	0.00377%
136793-29-8	Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	0.00105%	8.17	4.19	0.00056%
		100%			100%

* Mix water is supplied by the client. Schlumberger has performed no analysis of the water and cannot provide a breakdown of components that may have been added to the water by third-parties.

* The evaluation of attached document is performed based on the composition of the identified products to the extent that such compositional information was known to GRC-Chemicals as of the date of the document was produced. Any new updates will not be reflected in this document.