

**From:** Bob Pearson  
**To:** [fracking inquiry](#)  
**Subject:** NT Frac Enquiry  
**Date:** Sunday, 30 April 2017 12:11:51 PM

---

Dear Panel

My name is Robert (Bob) M. Pearson RPEQ an CPEng.

I submit the following submission for your consideration in you enquiry into the use of hydraulic fracturing in the development of Tight and Unconventional Gas in the Northern Territory.

There have been many Inquiries on this and similar subjects around the world and in Australia in recent times.

Virtually all credible (non-politically motivated) Inquiries have arrived at similar conclusions, in that exploring for and developing gas and oil from unconventional sources (shale) with the use of hydraulic fracturing (fracking) is unlikely to pose any significant risk to groundwater (aquifers) or to human health, providing that:

- the wells are properly cemented
- the pay zone is more than 200m below any usable aquifers;
- appropriate robust regulations (including environmental aspects) are in place, which are adhered to and enforced.

I would refer you and your scientific advisors to the technical papers written by George King of Apache, including:

- Hydraulic Fracturing 101: What Every Representative, Environmentalist, Regulator, Reporter, Investor, University Researcher, Neighbour and Engineer should know about Hydraulic Fracture Risk, SPE JPT, April 2012.
- Estimating Frac Risk and Improving Frac Performance in Unconventional Gas and Oil Wells, SPE 152596, 2012
- 30 Years of Gas Shale Fracturing: What have we Learned? SPE 133456, 2010

Thank you for allowing interested parties to make these recommendations.

Yours sincerely

Bob Pearson

[REDACTED]

[REDACTED]

[REDACTED]

References :

- 1) Energy Institute and The University of Texas in Austin,  
Assessing the Perceived and Real Environmental Consequences of Shale Gas Development

2) Royal Society report on fracking in the UK

Independent report by the Royal Society and Institute of Engineers in the UK re shale gas production and fracking.

<http://royalsociety.org/policy/projects/shale-gas-extraction/report/>

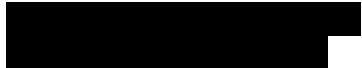
3) Australian Council of Learned Academies (ACOLA) "Engineering Energy: Unconventional Gas Production A Study of Shale Gas in Australia" Final Report.

<http://www.appea.com.au/wp-content/uploads/2013/07/ACOLA-Final-Report-Engineering-Energy-June-2013.pdf>

**Bob Pearson**  
Technical Director



ABN 58 155 911 256



W: [www.tacticalgas.com.au](http://www.tacticalgas.com.au)