Hydraulic Fracturing Fluid Product Component Information Disclosure

| Fracture Date | 4/22/2011 | |
|----------------------------|--------------|-----------------------------|
| State: | Colorado | |
| County: | Weld | |
| API Number: | 05-123-26124 | |
| Operator Name: | | Encana Oil & Gas (USA) Inc. |
| Well Name and Number: | | Aristocrat Angus 6-8-4 |
| Longitude: | -104.665573 | |
| Latitude: | 40.248762 | |
| Long/Lat Projection: | NAD83 | |
| Production Type: | Gas | |
| True Vertical Depth (TVD): | 7,765 | |
| Total Water Volume (gal)*: | 248,514 | |

Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|---------------------------|-----------------------------|------------------|-------------------------------------|--|--|--|---------------|
| Water | Ensign Well Services Inc | Base Fluid | Water | | 100.00% | 79.93159% | Fresh |
| Frac Sand (All Meshes) | BJ Services Company | Proppant | Crystalline silica (quartz) | 14808-60-7 | 99.90% | 19.24586% | |
| BC-3 | BJ Services Company | Breaker catalyst | Non-hazardous | | 100.00% | 0.05072% | |
| BF-9L | BJ Services Company | Buffer | Potassium hydroxide | 1310-58-3 | 15.00% | 0.00287% | |
| Flo-Back 40 | BJ Services Company | Surfactant | Amphoteric surfactant | NA | 100.00% | 0.07856% | % Proprietary |
| | BJ Services Company | Non-emulsifier | Methanol | 67-56-1 | 60.00% | 0.01172% | |
| | | | 2-ethylhexanol | 104-76-7 | 10.00% | 0.00195% | |
| | | | Isopropanol | 67-63-0 | 10.00% | 0.00195% | |
| | | | Heavy aromatic naphtha | 64742-94-5 | 5.00% | 0.00098% | |
| | | | Polyethylene glycol | 25322-68-3 | 5.00% | 0.00098% | |
| | | | EO-C7-9-iso-, C8 rich-alcohols | 78330-19-5 | 5.00% | 0.00098% | |
| | | | EO-C9-11-iso-, C10-rich alcohols | 78330-20-8 | 5.00% | 0.00098% | |
| | | | Naphthalene | 91-20-3 | 1.00% | 0.00020% | |
| | BJ Services Company | Breaker - Water | Magnesium Peroxide | 014452-57-4 | 30.00% | 0.00174% | |
| | | | Magnesium oxide | 001309-48-4 | 60.00% | 0.00347% | |
| GBW-5 | BJ Services Company | Breaker - Water | Ammonium persulfate | 7727-54-0 | 100.00% | 0.00309% | |
| GW-45LF | BJ Services Company | Gellant - Water | Carboxymethyl guar gum, sodium salt | 39346-76-4 | 50.00% | 0.21799% | |
| | | | Hydrotreated light distillate | 64742-47-8 | 100.00% | 0.43597% | |
| High Perm CRB | BJ Services Company | Breaker - Water | Ammonium persulphate | 7727-54-0 | 100.00% | 0.01196% | |

| | | | Crystalline silica quartz | 14808-60-7 | 15.00% | 0.00179% | |
|---------------|------------------------|------------------------|--|-------------|---------|----------|--------|
| XLW-14 | BJ Services Company | Crosslinker | Triethanolamine | 102-71-6 | 65.00% | 0.04882% | |
| | | | N-propanol | 71-23-8 | 22.00% | 0.01652% | |
| | | | N-propyl zirconate | N.E. | 18.00% | 0.01352% | |
| Clay Treat-3C | BJ Services Company | Clay Control - KCl sub | Tetramethyl ammonium chloride | 75-57-0 | 60.00% | 0.04920% | |
| FRW-14 | BJ Services Company | Friction Reducer | Hydrotreated light distillate | 64742-47-8 | 40.00% | 0.00283% | |
| | | | Ethoxylated alcohol | 68439-50-9 | 5.00% | 0.00035% | |
| GS-1A | BJ Services Company | Gel stabilizer | No hazardous ingredients | N.A. | 100.00% | 0.00193% | % N.A. |
| XLW- 22C | BJ Services Company | Crosslinker | Triisopropanolamine | 122-20-3 | 7.00% | 0.00087% | |
| | | | Ammonium hydroxide | 1336-21-6 | 5.00% | 0.00062% | |
| | | | Zirconium sodium hydroxy lactate complex | 113184-20-6 | 60.00% | 0.00748% | |

^{*} Total Water Volume sources may include fresh water, produced water, and/or recycled water

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

^{**} Information is based on the maximum potential for concentration and thus the total may be over 100%