Hydraulic Fracturing Fluid Product Component Information Disclosure

| Fracture Date: | 2/23/2012 |
|----------------------------|-------------------|
| State: | CO |
| County: | Weld |
| API Number: | 05-123-33217 |
| Operator Name: | Noble Energy Inc |
| Well Name and Number: | Sylvester F31-20D |
| Longitude: | -104.713048 |
| Latitude: | 40.354357 |
| Long/Lat Projection: | NAD83 |
| Production Type: | Gas |
| True Vertical Depth (TVD): | 7,291 |
| Total Water Volume (gal)*: | 9,621 |

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 |
|-------------------------|-------------|----------------------|--|--|--|--|-----------------|
| Fresh Water | Operator | | | | 100.00% | 10.22370% | Density = 8.300 |
| Clay Web | Halliburton | Additive | Proprietary | | 60.00% | 0.00784% | Density = 9.160 |
| HCL Acid | Halliburton | | | | 100.00% | 0.02572% | Density = 9.0 |
| Fresh Water | Operator | | | | 100.00% | 10.36317% | Density = 8.340 |
| SAND - PREMIUM WHITE | Halliburton | Proppant | Crystalline silica, quartz | 14808-60-7 | 100.00% | 77.18318% | |
| GasPerm 1100 | Halliburton | Non-ionic Surfactant | Ethanol | 64-17-5 | 60.00% | 0.72516% | |
| | | | Terpenes and Terpenoids, sweet orange-oil | 68647-72-3 | 5.00% | 0.06043% | |
| FR-66 | Halliburton | Friction Reducer | Hydrotreated light petroleum distillate | 64742-47-8 | 30.00% | 0.27937% | |
| LoSurf-300D | Halliburton | Surfactant | 1,2,4 Trimethylbenzene | 95-63-6 | 1.00% | 0.00002% | |
| | | | Ethanol | 64-17-5 | 60.00% | 0.00116% | |
| | | | Heavy aromatic petroleum naphtha | 64742-94-5 | 30.00% | 0.00058% | |
| | | | Naphthalene | 91-20-3 | 5.00% | 0.00010% | |
| | | | Poly(oxy-1,2-ethanediyl),alpha-(4-nonylphenyl)-o mega-hydroxy-, branched | 127087-87-0 | 5.00% | 0.00010% | |
| HAI-404M™ | Halliburton | Corrosion Inhibitor | 1-(Benzyl)quinolinium chloride | 15619-48-4 | 10.00% | 0.00064% | |
| | | | Aldehyde | Confidential Business Information | 30.00% | 0.00191% | |
| | | | Isopropanol | 67-63-0 | 30.00% | 0.00191% | |
| | | | Methanol | 67-56-1 | 30.00% | 0.00191% | |
| OptiKleen-WF™ | Halliburton | Surfactant | Sodium perborate tetrahydrate | 10486-00-7 | 100.00% | 0.05145% | |
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^{*} 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%