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|--|---|---|--|-------------------------------------|--|--|
| Submit within 45 days of well completion | <div>State of New Mexico</div> <div>Energy, Minerals and Natural Resources</div> <div>Oil Conservation Division</div> <div>1220 S. St Francis Dr.</div> <div>Santa Fe, NM 87505</div> | Revised November 6, 2013 | | | | |
| | | 1. WELL API NO. 30-025-38010 | | | | |
| | | 2. Well Name: ELLIOTT B 17 FEDERAL #009 | | | | |
| | | 3. Well Number: 009 | | | | |
| <div>HYDRAULIC FRACTURING FLUID DISCLOSURE</div> <div><input checked="" type="checkbox"/>Original</div> <div><input type="checkbox"/>Amendment</div> | | 4. Surface Hole Location: Unit:A Lot:A Section:17 Township:22S Range:37E Feet from:910 N/S Line:N Feet from:990 E/W Line:E | | | | |
| | | 5. Bottom Hole Location: Unit:A Lot:A Section:17 Township:22S Range:37E Feet from:910 N/S Line:N Feet from:990 E/W Line:E | | | | |
| | | 6. latitude: longitude: 32.3965906922443 - 103.179707452849 | | | | |
| | | 7. County: Lea | | | | |
| | | | | | | |
| 8. Operator Name and Address: VANGUARD PERMIAN, LLC 5847 San Felipe, Suite 3000 Houston 77057 | | 9. OGRID: 258350 | 10. Phone Number: 832-327-2252 | | | |
| 11. Last Fracture Date: 11/8/2013 Frac Performed by: CUDD | | 12. Production Type: O | | | | |
| 13. Pool Code(s): 50350 | | 14. Gross Fractured Interval: 3,658 ft to 3,730 ft | | | | |
| 15. True Vertical Depth (TVD): 4,300 ft | | 16. Total Volume of Fluid Pumped: 61,829 gals | | | | |
| 17. Total Volume of Re-Use Water Pumped: N/A | | 18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed | | | | |
| 19. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION: | | | | | | |
| Trade Name | Supplier | Purpose | Ingredients | (CAS #) Chemical Abstract Service # | Maximum Ingredient Concentration in Additive (% by mass) | Maximum Ingredient Concentration in HF Fluid (% by mass) |
| Water | | Carrier / Base Fluid | | 7732-18-5 | 100% | 81.98388% |
| Sand | | Proppant | Silicon Dioxide | 14808-60-7 | 100% | 9.17833% |
| B-15 | Water Science Tech | Biocide | Tetrakis (hydroxymethyl) phosphonium sulfate | 55566-30-8 | 20% | 0.00173% |
| 15% Hydrochloric Acid | Reagent | Scale Dissolver | Water | 7732-18-5 | 80% | 0.00694% |
| | | | 37% Hydrochloric Acid | 7647-01-0 | 15% | 0.53448% |
| | | | Water | 7732-18-5 | 85% | 3.02873% |
| I-122 | Chemplex,L.C. | Acid Corrosion Inhibitor | Methanol | 67-56-1 | 70% | 0.00137% |
| | | | Propargyl alcohol | 107-19-7 | 8% | 0.00027% |
| | | | Alcohol Ethoxylate Surfactants | Trade Secret | 30% | 0.00103% |
| | | | n-olefins | Trade Secret | 10% | 0.00034% |
| | | | thiourea-formaldehyde copolymer | 68527-49-1 | 30% | 0.00103% |
| SG-15G | PIP Technology | Polymer | Guar Gum | 9000-30-0 | 50% | 0.19306% |
| | | | Petroleum Distillate (Mineral Oil) | 64742-47-8 | 55% | 0.21237% |
| | | | Bentonite Clay | 14808-60-7 | 2% | 0.00772% |
| | | | Surfactant | 68439-51-0 | 2% | 0.00772% |
| XL-335 | ASK | Crosslinker | Ethylene Glycol | 107-21-1 | 25% | 0.01675% |
| | | | Potassium Hydroxide | 1310-58-3 | 25% | 0.01675% |
| | | | Proprietary | Proprietary | 25% | 0.01675% |
| | | | Proprietary | Proprietary | 15% | 0.01005% |
| | | | Proprietary | Proprietary | 10% | 0.0067% |
| BC-1 | Benchmark | Breaker Catalyst | Triethanolamine | 102-71-6 | 100% | 0.03924% |
| | | | Diethanolamine | 111-42-2 | 30% | 0.01177% |
| GB-2 | Fritz Industries, Inc. | Breaker | Ammonium Persulfate | 7727-54-0 | 99.9% | 0.00716% |
| NE-227 | CESI | Non-emulsifier | Isopropanol | 67-63-0 | 15% | 0.01083% |
| | | | Methanol | 67-56-1 | 15% | 0.01083% |
| | | | Ethoxylated Nonylphenol | 9016-45-9 | 20% | 0.01444% |
| | | | | | | |
| FE-4 | Chemplex, L.C. | Iron Control Additive | Citric Acid Anhydrous | 77-92-9 | 55% | 0.01122% |
| | | | Water | 7732-18-5 | 55% | 0.01122% |
| Garnett,Pearl RCS | Preferred Sands | RCS Proppants | Quartz(SiO2) | 14808-60-7 | 98% | 4.57694% |
| | | | Polyurethane Resin | Proprietary | 5% | 0.23352% |
| | | | Colorant | Proprietary | 1% | 0.0467% |
| 20. I, as Operator, hereby certify that the information shown on this disclosure form is true and complete to the best of my knowledge and belief. | | | | | | |
| Signature: Signed Electronically Printed Name: Randall Hicks | | Title: Sr Operations Engineer | | | | |
| Date: 3/25/2014 | | | | | | |
| E-mail Address: rhicks@vnrlc.com | | | | | | |

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