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|--|---|---|--|-------------------------------------|--|--|
| Submit within 45 days of well completion | <div>State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505</div> | Revised November 6, 2013 | | | | |
| | | 1. WELL API NO: 30-015-42061 | | | | |
| | | 2. Well Name: CEDAR CANYON 16 STATE #009H | | | | |
| | | 3. Well Number: 009H | | | | |
| <div>HYDRAULIC FRACTURING FLUID DISCLOSURE</div> <div><input checked="" type="checkbox"/> Original</div> <div><input type="checkbox"/> Amendment</div> | | 4. Surface Hole Location: Unit:D Lot:D Section:16 Township:24S Range:29E Feet from:224 N/S Line:N Feet from:350 E/W Line:W | | | | |
| | | 5. Bottom Hole Location: Unit:M Lot:M Section:16 Township:24S Range:29E Feet from:125 N/S Line:S Feet from:336 E/W Line:W | | | | |
| | | 6. latitude: 32.2242699 longitude: -103.9969101 | | | | |
| | | 7. County: Eddy | | | | |
| | | | | | | |
| 8. Operator Name and Address: OXY USA INC PO Box 4294 Houston 77210 | | 9. OGRID: 16696 | 10. Phone Number: 713-366-5069 | | | |
| 11. Last Fracture Date: 8/30/2015 Frac Performed by: C&J ENERGY SERVICES | | 12. Production Type: O | | | | |
| 13. Pool Code(s): 96473 | | 14. Gross Fractured Interval: 10,083 ft to 14,262 ft | | | | |
| 15. True Vertical Depth (TVD): 9,828 ft | | 16. Total Volume of Fluid Pumped: 3,607,158 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 | OCCIDENTAL PETROLEUM | Water | Water | 7732-18-5 | 100% | 81.02506% |
| TX Specific 20/40 mesh Sand | C&J Well Services | Sand - Bulk - Texas | Aluminum Oxide | 1344-28-1 | 1.1% | 0.00622% |
| | | | Crystalline Silica, quartz | 14808-60-7 | 99.9% | 0.56503% |
| | | | Iron Oxide | 1309-37-1 | 0.1% | 0.00057% |
| | | | Titanium Oxide | 13463-67-7 | 0.1% | 0.00057% |
| TX Specific 30/50 mesh Sand | C&J Well Services | Sand - Bulk - Texas | Aluminum Oxide | 1344-28-1 | 1.1% | 0.18622% |
| | | | Crystalline Silica, quartz | 14808-60-7 | 99.9% | 16.91186% |
| | | | Iron Oxide | 1309-37-1 | 0.1% | 0.01693% |
| | | | Titanium Oxide | 13463-67-7 | 0.1% | 0.01693% |
| AQUACAR 742 | C&J Well Services | Biocides | Ethanol | 64-17-5 | 1% | 1E-05% |
| | | | Glutaraldehyde | 111-30-8 | 42% | 0.00039% |
| | | | Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides | 68424-85-1 | 7.5% | 7E-05% |
| | | | | | | |
| FR-15 | C&J Well Services | Friction Reducer | Distillates (Petroleum), Hydrotreated Light | 64742-47-8 | 60% | 0.0186% |
| | | | Polyacrilamide Copolymer | Proprietary | 40% | 0.0124% |
| | | | Surfactant Blend | Proprietary | 6% | 0.00186% |
| CS-3 | C&J Well Services | Clay Control Additives | Choline Chloride ((2-Hydroxyethyl) trimethyl ammonium chloride) | 67-48-1 | 80% | 0.06931% |
| CI-3 | C&J Well Services | Acid Corrosion Inhibitors | 1-DECANOL | 112-30-1 | 5% | 0.0001% |
| | | | 1-OCTANOL | 111-87-5 | 2.5% | 5E-05% |
| | | | 2-Butoxyethanol | 111-76-2 | 15% | 0.00029% |
| | | | Cinnamaldehyde | 104-55-2 | 15% | 0.00029% |
| | | | Dimethylformamide | 68-12-2 | 20% | 0.00038% |
| | | | Ethylene Glycol | 107-21-1 | 40% | 0.00077% |
| | | | Isopropyl Alcohol | 67-63-0 | 2.5% | 5E-05% |
| | | | Nonyphenol (branched), ethoxylated | 127087-87-0 | 5% | 0.0001% |
| | | | Tar bases, quinoline derivs, benzyl chloride-quaternized | 72480-70-7 | 15% | 0.00029% |
| | | | Triethyl Phosphate | 78-40-0 | 2.5% | 5E-05% |
| | | | ICA-2 | C&J Well Services | Iron Control Additives | Citric Acid |
| XL-3 | C&J Well Services | Cross-linkers | Ethylene Glycol | 107-21-1 | 70% | 0.07306% |
| | | | Potassium Hydroxide | 1310-58-3 | 5% | 0.00522% |
| BR-2 | C&J Well Services | Gel Breakers | Sodium Hydroxide | 1310-73-2 | 5% | 0.00522% |
| | | | Ammonium Persulfate | 7727-54-0 | 76% | 0.0759% |
| BR-7 | C&J Well Services | Gel Breakers | Cured Resin | Proprietary | 24% | 0.02397% |
| SI-4 | C&J Well Services | Paraffin & Scale Additives | Hemicellulase | 9025-56-3 | 100% | 0.00313% |
| SU-2 | C&J Well Services | Surfactants & Foamers | Proprietary (methylene phosphonic acid)) | Proprietary | 10% | 0.00207% |
| | | | Alcohols, C10-14, ethoxylated | 66455-15-0 | 30% | 0.02434% |
| | | | Amorphous Silica | 7631-86-9 | 10% | 0.00811% |
| | | | Glycerides, C14-18 Mono- And Di- | 67701-33-1 | 15% | 0.01217% |
| | | | Hydroxyethylcellulose | 9004-62-0 | 15% | 0.01217% |
| | | | Polydimethyl siloxane | 63148-62-9 | 15% | 0.01217% |
| | | | Propylene Glycol | 57-55-6 | 10% | 0.00811% |
| | | | 2-Butoxyethanol | 111-76-2 | 5% | 4E-05% |
| | | | Ethoxylated Alcohols Phosphate Ether | 68130-47-2 | 2.5% | 2E-05% |
| | | | Isopropanol | 67-63-0 | 40% | 0.00028% |
| GA-7 | C&J Well Services | Gelling Agents | Methanol | 67-56-1 | 15% | 0.00011% |
| | | | N-Cocoamidopropyl-N,N-dimethyl-N-2-hydroxypropylsulfobetaineE | 68139-30-0 | 15% | 0.00011% |
| HC-7.5 | C&J Well Services | Bulk Acid | Distillates (Petroleum), Hydrotreated Light | 64742-47-8 | 60% | 0.14455% |
| | | | Guar Gum | 9000-30-0 | 55% | 0.13251% |
| SV-1 | C&J Well Services | Paraffin & Scale Additives | Hydrochloric Acid | 7647-01-0 | 7.5% | 0.06014% |
| | | | Alkanes, C10-24 branched and linear | 848301-67-7 | 90% | 0.00443% |
| | | | Dodecane | 112-40-3 | 40% | 0.00197% |
| | | | Hydrocarbons | Proprietary | 25% | 0.00123% |
| | | | Tetradecane | 629-59-4 | 30% | 0.00148% |
| | | | Tridecane | Proprietary | 30% | 0.00148% |
| | | | Undecane | 1120-21-4 | 30% | 0.00148% |
| 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: David Stewart Title: Sr. Regulatory Advisor | | | | | | |
| Date: 9/25/2015 | | | | | | |
| E-mail Address: david_stewart@oxy.com | | | | | | |

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