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| Submit within 45 days of well completion | State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 | Revised November 6, 2013 1. WELL API NO. 30-025-43109 2. Well Name: FLAT HEAD FEDERAL COM #025H 3. Well Number: 025H |
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| HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment | HOBBS OCD MAY 01 2017 RECEIVED | 4. Surface Hole Location: Unit:B Lot:B Section:14 Township:17S Range:32E Feet from:1015 N/S Line:N Feet from:2310 E/W Line:E 5. Bottom Hole Location: Unit:B Lot:B Section:14 Township:17S Range:32E Feet from:1015 N/S Line:N Feet from:2310 E/W Line:E 6. latitude: longitude: 32.83901162 -103.7360187 7. County: Lea |
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| 8. Operator Name and Address: COG OPERATING LLC | 9. OGRID: 229137 | 10. Phone Number: 432-685-4332 |
| 11. Last Fracture Date: 3/4/2017 Frac Performed by: PumpCo Services | 12. Production Type: O | |
| 13. Pool Code(s): 44500 | 14. Gross Fractured Interval: 6,845 ft to 12,486 ft | |
| 15. True Vertical Depth (TVD): 6,550 ft | 16. Total Volume of Fluid Pumped: 6,148,506 gals | |
| 17. Total Volume of Re-Use Water Pumped: 0 gals | 18. Percent of Re-Use Water in Fluid Pumped: % | |

| 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 | Operator | Carrier/Base Fluid | Water | 7732-18-5 | 100% | 88.25828% |
| Sand | TSS | Proppant | Silica Substrate | 14808-60-7 | 100% | 9.62501% |
| 15% HCL | Reagent | Acidizing | Hydrochloric Acid | 7647-01-0 | 15% | 0.28702% |
| Chemplex 4-N-1 | Chemplex | Combination/Iron Control | 2-Ethylhexanol | 104-76-7 | 10% | 0.00219% |
| | | | Acetic Acid | 64-19-7 | 85% | 0.0186% |
| | | | Alcohol Ethoxylate Surfactants | Proprietary | 2% | 0.00044% |
| | | | Cocamide Diethanolamine Salt | 68603-42-9 | 2% | 0.00044% |
| | | | Diethanolamine | 111-42-2 | 2% | 0.00044% |
| | | | Methyl Alcohol | 67-56-1 | 10% | 0.00219% |
| | | | n-olefins | Proprietary | 1% | 0.00022% |
| | | | Propargyl Alcohol | 107-19-7 | 1% | 0.00022% |
| | | | thiourea-formaldehyde copolymer | 68527-49-1 | 2% | 0.00044% |
| Plexgel Breaker XPA | Chemplex | Breaker | Hydrogen Peroxide | 7722-84-1 | 7% | 0.0031% |
| Plexslick 957 | Chemplex | Friction Reducer | Ammonium Chloride | 12125-02-9 | 5% | 0.00462% |
| | | | Nonionic Surfactants | Proprietary | 1.5% | 0.00139% |
| | | | Paraffinic, Naphtehenic Solvent | 64742-47-8 | 30% | 0.02773% |

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|---------------|----------|----------------------|--|-------------|--|-----|----------|
| | | | Poly (acrylamide-co-acrylic acid), partial sodium salt | 62649-23-4 | | 35% | 0.03235% |
| Plexsurf 240E | Chemplex | Non Ionic Surfactant | Methyl Alcohol | 67-56-1 | | 20% | 0.00891% |
| | | | Alcohol Alkoxylate | Proprietary | | 20% | 0.00891% |
| | | | | | | 0% | 0% |
| | | | | | | 0% | 0% |
| | | | | | | 0% | 0% |
| | | | | | | 0% | 0% |

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: _____ Printed Name: _____ Title: _____
 Date: _____
 E-mail Address: _____

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.