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.
30-015-25017

2. Well Name:
MONCRIEF STATE #001

3. Well Number:
001

## HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:L Lot:L Section:23 Township:17S Range:28E
Feet from:1650 N/S Line:S
Feet from:330 E/W Line:W

5. Bottom Hole Location:
Unit:L Lot:L Section:23 Township:17S Range:28E
Feet from:1650 N/S Line:S
Feet from:330 E/W Line:W

6. latitude: 32.8174285274167 longitude: -104.15406981372

7. County:
Eddy

8. Operator Name and Address:
COG OPERATING LLC
One Concho Center
600 W. Illinois Ave
Midland 79701

9. OGRID: 229137

10. Phone Number: 432-685-4332

11. Last Fracture Date: 10/15/2012 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
96210

14. Gross Fractured Interval:
3,580 ft to 4,870 ft

15. True Vertical Depth (TVD):
5,140 ft

16. Total Volume of Fluid Pumped:
478,380 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 | Operator | Carrier | Water | 7732-18-5 | 100% | 82.57493% |
| HCl, 10.1 - 15% | Baker Hughes | Acidizing | Hydrochloric Acid | 7647-01-0 | 15% | 0.37526% |
| | | | Water | 7732-18-5 | 85% | 2.1265% |
| Activator, 330 gal tote | Baker Hughes | Activator | Alcohols, C12-14-Secondary, Ethoxylated | 84133-50-6 | 70% | 0.022% |
| | | | Methanol | 67-56-1 | 50% | 0.01572% |
| X-Cide 207 | Baker Hughes | Biocide | 2-Methyl-4-Isothiazolin-3-One | 2682-20-4 | 5% | 0.00017% |
| | | | 5-Chloro-2-Methyl-4-Isothiazolin-3-One | 26172-55-4 | 10% | 0.00035% |
| | | | Crystalline Silica: Cristobalite | 14464-46-1 | 1% | 3E-05% |
| | | | Crystalline Silica: Quartz (SiO2) | 14808-60-7 | 1% | 3E-05% |
| | | | Diatomaceous Earth, Calcined | 91053-39-3 | 60% | 0.00209% |
| | | | Magnesium Chloride | 7786-30-3 | 5% | 0.00017% |
| | | | Magnesium Nitrate | 10377-60-3 | 10% | 0.00035% |
| Enzyme G-I | Baker Hughes | Breaker | Hemicellulase Enzyme Concentrate | 9025-56-3 | 3% | 0.00117% |
| | | | Water | 7732-18-5 | 97% | 0.03767% |
| CI-27 | Baker Hughes | Corrosion Inhibitor | Fatty Acids | Trade Secret | 30% | 0.0006% |
| | | | Methanol | 67-56-1 | 60% | 0.0012% |
| | | | Olefin | Trade Secret | 5% | 0.0001% |
| | | | Polyoxyalkylenes | Trade Secret | 30% | 0.0006% |
| | | | Propargyl Alcohol | 107-19-7 | 10% | 0.0002% |
| XLW-10A | Baker Hughes | Crosslinker | Ethylene Glycol | 107-21-1 | 30% | 0.03019% |
| | | | Sodium Hydroxide | 1310-73-2 | 10% | 0.01006% |
| | | | Sodium Tetraborate | 1330-43-4 | 30% | 0.03019% |
| BioSealers MR | Baker Hughes | Degradable Sealers | Non-Hazardous Ingredient | Trade Secret | 100% | 0.00273% |
| FRW-18 | Baker Hughes | Friction Reducer | Petroleum Distillates | 64742-47-8 | 30% | 0.0006% |
| GW-4LDF | Baker Hughes | Gelling Agent | Guar Gum | 9000-30-0 | 60% | 0.26057% |
| | | | Paraffinic Petroleum Distillate | 64742-55-8 | 60% | 0.26057% |
| | | | Petroleum Distillate | 64742-47-8 | 60% | 0.26057% |
| Ferrotrol 280L | Baker Hughes | Iron Control | 2-Mercaptoethanol | 60-24-2 | 100% | 0.01425% |
| | | | Ammonium Hydroxide | 1336-21-6 | 5% | 0.00071% |
| | | | Cupric Chloride | 7447-39-4 | 5% | 0.00071% |
| NE-35, 330 gl tote | Baker Hughes | Non-emulsifier | Mixture of Surfactants | Trade Secret | 50% | 0.04109% |
| | | | Propylene Glycol | 57-55-6 | 30% | 0.02466% |
| Sand, Brown, 16/30 | Baker Hughes | Proppant | Crystalline Silica (Quartz) | 14808-60-7 | 100% | 11.6075% |
| SiberProp, 16/30 | Baker Hughes | Proppant | Quartz (SiO2) | 14808-60-7 | 100% | 2.1746% |
| Scaletrol 721, tote | Baker Hughes | Scale Inhibitor | Diethylene Glycol | 111-46-6 | 1% | 0.00033% |
| | | | Ethylene Glycol | 107-21-1 | 15% | 0.00491% |
| | | | Synthetic Polymer | Trade Secret | 15% | 0.00491% |
| InFlo 250G, 330 gl tote | Baker Hughes | Surfactant | Methanol | 67-56-1 | 30% | 0.02392% |
| | | | Mixture of Surfactants | Trade Secret | 50% | 0.03987% |
| | | | Water | 7732-18-5 | 30% | 0.02392% |

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: Chasity Jackson Title: Regulatory Analyst

Date: 11/21/2013

E-mail Address: cjackson@conchoresources.com

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.