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.
30-015-39814

2. Well Name:
PATTON 5 FEE #001H

3. Well Number:
001H

## HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:D Lot:4 Section:5 Township:19S Range:26E
Feet from:380 N/S Line:N
Feet from:330 E/W Line:W

5. Bottom Hole Location:
Unit:A Lot:1 Section:5 Township:19S Range:26E
Feet from:401 N/S Line:N
Feet from:342 E/W Line:E

6. latitude: 32.6961489071791 longitude: -104.412025555805

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: 5/13/2013 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
3250

14. Gross Fractured Interval:
3,170 ft to 7,200 ft

15. True Vertical Depth (TVD):
3,033 ft

16. Total Volume of Fluid Pumped:
1,808,616 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) |
|---|---|---|---|---|---|---|
| HYDROCHLORIC ACID 10-30% | Halliburton | | Hydrochloric acid | 7647-01-0 | 30% | 0.30101% |
| | | | Hydrochloric acid | 7647-01-0 | 30% | 0.28249% |
| Fresh Water | Operator | | | | 100% | 84.64733% |
| 100 Mesh | Halliburton | | | | 100% | 0.26916% |
| Premium Brown - 20/40 | Halliburton | | | | 100% | 10.99859% |
| CRC 16/30 | Halliburton | | | | 100% | 1.81885% |
| BC-140 X2 | Halliburton | Initiator | Ethylene glycol | 107-21-1 | 30% | 0.0165% |
| | | | Monoethanolamine borate | 26038-87-9 | 100% | 0.05501% |
| LOSURF-360W | Halliburton | | | | 100% | 0% |
| BE-7™ | Halliburton | Biocide | Sodium hydroxide | 1310-73-2 | 2% | 0.00099% |
| | | | Sodium hypochlorite | 7681-52-9 | 30% | 0.01492% |
| HpH BREAKER | Halliburton | Breaker | Sodium chloride | 7647-14-5 | 30% | 0.00011% |
| SUPERSET W | Halliburton | Activator | Methanol | 67-56-1 | 60% | 0.01685% |
| | | | Ethoxylated nonylphenol | Confidential Business Information | 60% | 0.01685% |
| FR-38 | Halliburton | Friction Reducer | Acetic acid | 64-19-7 | 5% | 0.00054% |
| | | | Ammonium sulfate Inorganic Salt | Confidential Business Information | 30% | 0.00325% |
| CAD-1 | Halliburton | Dispersant | Sodium 2-ethylhexyl sulfate | 126-92-1 | 39% | 0.01057% |
| BE-6 MICROBIOCIDE | Halliburton | Biocide | 2-Bromo-2-nitro-1,3-propanediol | 52-51-7 | 100% | 0.00151% |
| WG-36 GELLING AGENT | Halliburton | Gelling Agent | Guar gum | 9000-30-0 | 100% | 0.12829% |
| OPTIFLO-HTE | Halliburton | Breaker | Crystalline silica, quartz | 14808-60-7 | 30% | 0.00124% |
| | | | Walnut hulls | Mixture | 100% | 0.00412% |
| Scalechek® SCP-2 Scale Inhibitor | Halliburton | Scale Preventer | Glassy calcium magnesium phosphate | 65997-17-3 | 100% | 0.01513% |
| OptiKleen-WF™ | Halliburton | Concentrate | Sodium perborate tetrahydrate | 10486-00-7 | 100% | 0.00091% |

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: 11/14/2013

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.