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.
30-015-41623

2. Well Name:
EAST SHUGART DELAWARE UNIT #033

3. Well Number:
033

## HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:G Lot:G Section:24 Township:18S Range:31E
Feet from:2080 N/S Line:N
Feet from:1935 E/W Line:E

5. Bottom Hole Location:
Unit:G Lot:G Section:24 Township:18S Range:31E
Feet from:2080 N/S Line:N
Feet from:1935 E/W Line:E

6. latitude: 32.7346348635507 longitude: -103.820743066117

7. County:
Eddy

8. Operator Name and Address:
SM ENERGY COMPANY
3300 N. A Street, Bldg. #7
Suite 200
Midland 79705

9. OGRID: 154903

10. Phone Number: 432-688-1789

11. Last Fracture Date: 10/25/2013 Frac Performed by: CUDD ENERGY SERVICES

12. Production Type:
O

13. Pool Code(s):
56419

14. Gross Fractured Interval:
5,064 ft to 5,159 ft

15. True Vertical Depth (TVD):
5,514 ft

16. Total Volume of Fluid Pumped:
43,681 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% | 80.50724% |
| Sand | | Proppant | Silicon Dioxide | 14808-60-7 | 100% | 9.00955% |
| Super DC/LC TLC/THS Opti RCS | Sandtrol | Proppant | Silicon Dioxide | 14808-60-7 | 97% | 6.45143% |
| | | | P/F Novolak Resin | 9003-35-4 | 5% | 0.33255% |
| | | | Hexamethylenetetramine | 1009-7-0 | 1% | 0.06651% |
| B-15 | Water Science Tech | Biocide | Tetrakis (hydroxymethyl) phosphonium sulfate | 55566-30-8 | 20% | 0.00281% |
| | | | Water | 7732-18-5 | 80% | 0.01125% |
| 15% Hydrochloric Acid | Reagent | Scale Dissolver | 37% Hydrochloric Acid | 7647-01-0 | 15% | 0.44575% |
| | | | Water | 7732-18-5 | 85% | 2.52592% |
| I-112 | Chemplex,L.C. | Acid Corrosion Inhibitor | Methanol | 67-56-1 | 49.6% | 0.00229% |
| | | | Propargyl Alcohol | 107-19-7 | 4% | 0.00018% |
| SG-15G | PfP Technology | Polymer | Guar Gum | 9000-30-0 | 50% | 0.18062% |
| | | | Petroleum Distillate (Mineral Oil) | 64742-47-8 | 55% | 0.19868% |
| | | | Bentonite Clay | 14808-60-7 | 2% | 0.00722% |
| | | | Surfactant | 68439-51-0 | 2% | 0.00722% |
| XL-335 | ASK | Crosslinker | Ethylene Glycol | 107-21-1 | 25% | 0.02084% |
| | | | Potassium Hydroxide | 1310-58-3 | 25% | 0.02084% |
| | | | Proprietary | Proprietary | 25% | 0.02084% |
| | | | Proprietary | Proprietary | 15% | 0.0125% |
| | | | Proprietary | Proprietary | 10% | 0.00833% |
| GB-2 | Fritz Industries, Inc. | Breaker | Ammonium Persulfate | 7727-54-0 | 99.9% | 0.00443% |
| GB-150 | Chemplex, L.C. | Breaker | Non-hazardous ingredients | NA | 100% | 0.03041% |
| NE-217 | Chemplex, L.C. | Non-emulsifier | Methanol | 67-56-1 | 50% | 0.00245% |
| NE-227 | CESI | Non-emulsifier | Isopropanol | 67-63-0 | 15% | 0.00672% |
| | | | Methanol | 67-56-1 | 15% | 0.00672% |
| | | | Ethoxylated Nonylphenol | 9016-45-9 | 20% | 0.00896% |
| FE-4 | Chemplex, L.C. | Iron Control Additive | Citric Acid Anhydrous | 77-92-9 | 55% | 0.0096% |
| | | | Water | 7732-18-5 | 55% | 0.0096% |
| SI-625 | Keltech | Scale Inhibitor | Methanol | 67-56-1 | 19.9% | 0.04176% |
| Superset W | Santrol | Resin Activator | Methanol | 67-56-1 | 50% | 0.04277% |
| | | | Poly(oxyethylene) nonyphenol ether | 9016-45-9 | 54% | 0.04619% |

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: Vickie Martinez Title: Engineering Tech

Date: 11/14/2013

E-mail Address: vmartinez@sm-energy.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.