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.
30-025-42577

2. Well Name:
PERLA NEGRA FEDERAL COM #004H

3. Well Number:
004H

## HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:25 Township:19S Range:34E
Feet from:298 N/S Line:N
Feet from:485 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:A Section:25 Township:19S Range:34E
Feet from:298 N/S Line:N
Feet from:485 E/W Line:E

6. latitude: 32.6378626453483 longitude: -103.506900899911

7. County:
Lea

8. Operator Name and Address:
XTO ENERGY, INC
XTO Energy, Inc.
PO Box 6501
Englewood 80155

9. OGRID: 5380

10. Phone Number: 303-397-3715

11. Last Fracture Date: 9/3/2015 Frac Performed by: Cudd

12. Production Type:
O

13. Pool Code(s):
37570

14. Gross Fractured Interval:
11,300 ft to 15,845 ft

15. True Vertical Depth (TVD):
10,860 ft

16. Total Volume of Fluid Pumped:
3,349,072 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% | 82.47306% |
| Sand | | Proppant | Silicon Dioxide | 14808-60-7 | 100% | 11.59031% |
| Super DC/LC TLC/THS Opti RCS | Sandtrol | Proppant | Silicon Dioxide | 14808-60-7 | 97% | 4.88772% |
| | | | P/F Novolak Resin | 9003-35-4 | 5% | 0.25194% |
| | | | Hexamethylenetetramine | 1009-7-0 | 1% | 0.05039% |
| B-15 | Brenntag | Biocide | Tetrakis (hydroxymethyl) phosphonium sulfate | 55566-30-8 | 20% | 0.00201% |
| | | | Water | 7732-18-5 | 80% | 0.00803% |
| FR-601 | SNF | Friction Reducer | Copolymer of acrylamide and sodium acrylate | 25987-30-8 | 10% | 0.00642% |
| | | | Isoparaffinic Solvent | 64742-47-8 | 10% | 0.00642% |
| | | | Water | 7732-18-5 | 60% | 0.03852% |
| | | | Nonylphenol | 9016-45-9 | 10% | 0.00642% |
| | | | Sorbitan Monooleate | 1338-43-8 | 10% | 0.00642% |
| 10.0% Hydrochloric Acid | Reagent | Scale Dissolver | 37% Hydrochloric Acid | 7647-01-0 | 10% | 0.05585% |
| | | | Water | 7732-18-5 | 90% | 0.50261% |
| I-122 | Chemplex,L.C. | Acid Corrosion Inhibitor | Methonol | 67-56-1 | 70% | 0.00037% |
| | | | Propargyl alcohol | 107-19-7 | 8% | 7E-05% |
| | | | Alcohol Ethoxylate Surfactants | Trade Secret | 30% | 0.00028% |
| | | | n-olefins | Trade Secret | 10% | 9E-05% |
| | | | thiourea-formaldehyde copolymer | 68527-49-1 | 30% | 0.00028% |
| SG-15G | PfP Technology | Polymer | Guar Gum | 9000-30-0 | 50% | 0.07043% |
| | | | Petroleum Distillate (Mineral Oil) | 64742-47-8 | 55% | 0.07747% |
| | | | Bentonite Clay | 14808-60-7 | 2% | 0.00282% |
| | | | Surfactant | 68439-51-0 | 2% | 0.00282% |
| XL-335 | PfP Technology | Crosslinker | Sodium Metaborate | 7775-19-1 | 40% | 0.01554% |
| | | | Glycerol | 56-81-5 | 45% | 0.01748% |
| GB-2 | Multiple Suppliers | Breaker | Ammonium Persulfate | 7727-54-0 | 99.9% | 0.00139% |
| EGB-16HT | Fritz Industries, Inc. | Breaker | Ammonium Persulfate | 7727-54-0 | 99.9% | 0.00159% |
| | | | Silica, Crystalline-Quartz | 14808-60-7 | 10% | 0.00016% |
| NE-217 | Chemplex, L.C. | Non-emulsifier | Methanol | 67-56-1 | 60% | 0.00029% |
| FE-4 | Multiple Suppliers | Iron Control Additive | Citric Acid Anhydrous | 77-92-9 | 55% | 0.00173% |
| | | | Water | 7732-18-5 | 55% | 0.00173% |
| S-222 | Chemplex, L.C. | Flouro Surfactant | Methanol | 67-56-1 | 100% | 0.0778% |

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: Patty Urias Title: Production Analyst

Date: 10/6/2015

E-mail Address: Patty_Urias@xtoenergy.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.