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.
30-045-30910

2. Well Name:
FEDERAL A #001M

3. Well Number:
001M

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:G Lot:7 Section:27 Township:30N Range:11W
Feet from:1555 N/S Line:N
Feet from:1845 E/W Line:E

5. Bottom Hole Location:
Unit:G Lot:7 Section:27 Township:30N Range:11W
Feet from:1555 N/S Line:N
Feet from:1845 E/W Line:E

6. latitude: 36.7863381049752 longitude: -107.975803679386

7. County:
San Juan

8. Operator Name and Address:
BURLINGTON RESOURCES OIL & GAS COMPANY LP
3401 E. 30TH STREET
FARMINGTON 87402

9. OGRID: 14538

10. Phone Number: 505-326-9518

11. Last Fracture Date: 12/21/2013 Frac Performed by: BAKER HUGHES

12. Production Type:
G

13. Pool Code(s):
71599, 72319

14. Gross Fractured Interval:
4,320 ft to 4,846 ft

15. True Vertical Depth (TVD):
6,973 ft

16. Total Volume of Fluid Pumped:
168,638 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%	77.67278%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.10093%
			Water	7732-18-5	85%	0.57196%
Alpha 1427	Baker Hughes	Biocide	Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.00532%
			Ethanol	64-17-5	5%	0.00266%
			Glutaraldehyde	111-30-8	30%	0.01595%
			Quaternary Ammonium Compound	68424-85-1	5%	0.00266%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.00884%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00074%
			Methanol	67-56-1	60%	0.00148%
			Olefin	Trade Secret	5%	0.00012%
			Polyoxyalkylenes	Trade Secret	30%	0.00074%
			Propargyl Alcohol	107-19-7	10%	0.00025%
			Thiourea Polymer	68527-49-1	30%	0.00074%
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	9046-01-9	10%	0.00207%
			Crystalline Silica: Quartz	14808-60-7	1%	0.00021%
			Ethylene Glycol	107-21-1	1%	0.00021%
			Quaternary Ammonium Compound	61789-71-7	30%	0.00621%
FAW-22	Baker Hughes	Foamer	Alkyl Sulfate (1 of 3)	Trade Secret	1%	0.00111%
			Alkyl Sulfate (2 of 3)	Trade Secret	1%	0.00111%
			Alkyl Sulfate (3 of 3)	Trade Secret	1%	0.00111%
			Ammonium Alkyl Ether Sulfate	Trade Secret	10%	0.01106%
			Isopropanol	67-63-0	30%	0.03318%
			Sodium Sulfonate	68439-57-6	30%	0.03318%
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Oxyalkylated Alcohol	Trade Secret	5%	0.00279%
			Petroleum Distillates	64742-47-8	30%	0.01672%
			Polyacrylate	Trade Secret	60%	0.03345%
			Sodium Chloride	7647-14-5	3%	0.00167%
Ferrotrol 300L	Baker Hughes	Iron Control	Citric Acid	77-92-9	60%	0.00313%
Nitrogen	Baker Hughes	Nitrogen	Liquid Nitrogen	7727-37-9	100%	10.80068%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	10.59302%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.00497%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00017%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.01657%
			Phosphonic Acid	13598-36-2	1%	0.00017%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.0248%
			Oxyalkylated Alkylphenol (1)	Trade Secret	10%	0.00827%
			Oxyalkylated Alkylphenol (2)	Trade Secret	10%	0.00827%
			Oxyalkylated Amine	Trade Secret	3%	0.00248%
			Polyoxyalkylene	Trade Secret	10%	0.00827%
					0%	0%
					0%	0%
					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: Signed Electronically Printed Name: Arleen R Kellywood Title: Regulatory Technician

Date: 4/15/2014

E-mail Address: Arleen.R.Kellywood@conocophillips.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.