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 8, 2013

1. WELL API NO.
30-039-23040

2. Well Name:
APACHE FEDERAL #000E

3. Well Number:
#000

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit A: Lot A: Section 8: Township: 24N: Range: 05W
N/S Line N: E/W Line E:
Feet from: 955: Feet from: 1005:
Latitude: 36.33146: Longitude: -107.37778

5. Bottom Hole Location:
Unit A: Lot A: Section 8: Township: 24N: Range: 05W
N/S Line N: E/W Line E:
Feet from: 955: Feet from: 1005:
Latitude: Longitude:

7. County:
Rio Arriba

8. Operator Name and Address:
XTO ENERGY, INC.
XTO Energy, Inc.
382 Road 3100
Aztec 87410

9. OGRID: 5380: 10. Phone Number: 505-333-3143

11. Last Fracture Date: 7/10/2014 Frac Performed by: Halliburton

12. Production Type:
G

13. Pool Code(s):
45409

14. Gross Fractured Interval:
5,651 ft to 5,868 ft

15. True Vertical Depth (TVD):
5,868 ft

16. Total Volume of Fluid Pumped:
34,383 Gals

17. Total Volume of Re-Use Water Pumped:
0 bbl

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)
Fresh Water	Operator	Base Fluid	Fresh Water	7732-18-5	100%	55.38483%
Hydrochloric Acid	Halliburton	Solvent	Water	7732-18-5	65%	35.97014%
Sand - Premium White	Halliburton	Proppant	Crystalline Silica, Quartz	14808-60-7	100%	23.21756%
Hydrochloric Acid 10-30%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	30%	8.35163%
Hydrochloric Acid	Halliburton	Solvent	Hydrochloric acid	7647-01-0	60%	0.30064%
LDC-36 UC	Halliburton	Gelling Agent	Guar Gum	9000-30-0	60%	0.13246%
			Hydrotreated Heavy Oil			
			Guar Gum	9000-30-0	60%	0.13246%
Parascotl 5005	Baker Hughes	Paraffin Inhibitor	Naphthalene	91-20-3	1%	0.00774%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00774%
			Diatomaceous Earth, Calcined		40%	0.30962%
			Complex Ester	Proprietary	30%	0.23232%
			Heavy Aromatic Naphtha	64742-94-5	10%	0.00077%
			Ethylene-Vinyl Acetate Copolymer	Proprietary	5%	0.04039%
			Mineral Oil	8042-47-5	5%	0.04039%
HC	Halliburton	Additive	Sodium Chloride	7647-14-5	30%	0.05664%
			Alkyl Salt of Alkyl Ammonium	Confidential	30%	0.05664%
EC-200 UC	Halliburton	Crosslinker	Modified Alkane	Confidential	60%	0.05973%
OilPerm A	Halliburton	Non-ionic Surfactant	Ethanol	64-17-5	30%	0.03074%
			Heavy Aromatic Petroleum Naphtha	64742-94-5	30%	0.01037%
			Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-,branched	127087-87-0	5%	0.00173%
			Naphthalene	91-20-3	5%	0.00173%
			1,2,4 Trimethylbenzene	95-63-6	1%	0.00035%
OilPerm B	Halliburton	Surfactant	Isopropanol	67-63-0	30%	0.01084%
			Alkyl Alcohol Component	Confidential	30%	0.01084%
			Terpenes and Terpenoids, Sweet Orange-Oil	68647-72-3	30%	0.01084%
Cla-Web	Halliburton	Additive	Sodium Chloride Salt	Confidential	60%	0.23110%
Scalesorb 3	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Confidential	30%	0.09931%
			Diatomaceous Earth, Calcined	61790-53-2	100%	0.30334%
			Phosphonic Acid	13598-36-2	1%	0.00003%
			Crystalline silica Quartz (SiO2)	14808-60-7	1%	0.00003%
CL-31 Crosslinker	Halliburton	Crosslinker	Potassium Metaborate	13709-94-9	60%	0.09284%
			Potassium Metaborate	1310-58-3	5%	0.00774%
Optiflo-II Delayed Release Breaker	Halliburton	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00054%
			Crystalline Silica, Quartz	14808-60-7	30%	0.00162%
SP Breaker	Halliburton	Breaker	Sodium Persulfate	7775-27-1	100%	0.00675%
BE-9	Halliburton	Microbiocide	2,Bromo-2-Nitro-1,3-propanediol	52-51-7	100%	0.00162%
OptiFlo-II 1100	Halliburton	Non-ionic Surfactant	Ethanol	64-17-5	30%	0.00025%
			Isopropanol	67-63-0	10%	0.00021%
			Methanol	67-56-1	10%	0.00021%
			Terpenes and Terpenoids, Sweet Orange-Oil	68647-72-3	5%	0.00011%
HAI-OS Acid Inhibitor	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.0006%
			Propargyl Alcohol	107-19-7	10%	0.0001%
		Other Ingredient(s)	Water	7732-18-5	0%	0.379187%
		Other Ingredient(s)	Organic Salt	Confidential	0%	0.12396%
		Other Ingredient(s)	Sodium Carbonate	497-19-8	0%	0.02995%
		Other Ingredient(s)	Quaternary Ammonium Compounds, bis (hydrogenated tallow alkyl) dimethyl salts with bentonite	68953-58-2	0%	0.01112%
		Other Ingredient(s)	Ethoxylated Fatty Acid	Confidential	0%	0.01105%
		Other Ingredient(s)	Alcohols, C12-16, Ethoxylated	61791-08-0	0%	0.01084%
		Other Ingredient(s)	Cocyalkylated Phenolic Resin	Confidential	0%	0.01037%
		Other Ingredient(s)	Glycerol	56-81-5	0%	0.00975%
		Other Ingredient(s)	Modified Bentonite	Confidential	0%	0.00468%
		Other Ingredient(s)	Terpenes and Terpenoids	Confidential	0%	0.00372%
		Other Ingredient(s)	Cocyalkylated Phenolic resin	Confidential	0%	0.00348%
		Other Ingredient(s)	Cinnamaldehyde	104-55-2	0%	0.00255%
		Other Ingredient(s)	Quaternary Amine	7647-14-5	0%	0.00255%
		Other Ingredient(s)	Sodium Carbonate	497-19-8	0%	0.02995%
		Other Ingredient(s)	Fatty Alcohol Polyglycol Ether Surfactant	68951-67-7	0%	0.01112%
		Other Ingredient(s)	Modified Starch resin	Confidential	0%	0.00102%
		Other Ingredient(s)	Propylene Carbonate	108-32-7	0%	0.001%
		Other Ingredient(s)	Organic Salt	Confidential	0%	0.001%
		Other Ingredient(s)	Propylene Glycol	57-55-6	0%	0.1971%
		Other Ingredient(s)	2-Ethyl Hexanol	104-76-7	0%	0.001%
		Other Ingredient(s)	Quaternary Amine	Confidential	0%	0.00255%
		Other Ingredient(s)	Crystalline Silica, Quartz	14808-60-7	0%	0.00653%
		Other Ingredient(s)	Fatty Acids, Tall Oil	Confidential	0%	0.0002%
		Other Ingredient(s)	Alcohols, C14-C15, Ethoxylated	68951-67-7	0%	0.0003%
		Other Ingredient(s)	Reaction Product of Acetophenone, Formaldehyde, Thiourea and Oleic Acid in Dimethyl Formamide	68527-49-1	0%	0.0003%
		Other Ingredient(s)	Ethoxylated Fatty Acid	Confidential	0%	0.00021%
		Other Ingredient(s)	Ethoxylated Fatty Acid	Confidential	0%	0.00011%
		Other Ingredient(s)	Methanol	67-56-1	0%	0.0001%
		Other Ingredient(s)	Butyl Alcohol	71-36-3	0%	0.0001%
		Other Ingredient(s)	Amine Salts	Confidential	0%	5E-05%
		Other Ingredient(s)	Amine Salts	Confidential	0%	5E-05%
		Other Ingredient(s)	Quaternary Amine	Confidential	0%	5E-05%
		Other Ingredient(s)	Olefins	Confidential	0%	5E-05%
		Other Ingredient(s)	Olefins	Confidential	0%	5E-05%
		Other Ingredient(s)	Methyl Isobutyl Ketone	108-10-1	0%	2E-08%
		Other Ingredient(s)	Olefins	Confidential	0%	1E-05%
		Other Ingredient(s)	Olefins	Confidential	0%	1E-05%
		Other Ingredient(s)	Sodium Sulfate	7757-82-6	0%	1E-05%

20. I, as Operator, hereby verify 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: Sherry Morrow
Title: Regulatory Analyst
Date: 9/11/2014
E-mail Address: Sherry_morrow@xtoenergy.com

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