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.
30-039-29982

2. Well Name:
ROSA UNIT #077C

3. Well Number:
077C

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:P Lot:P Section:33 Township:31N Range:05W
Feet from:660 N/S Line:S
Feet from:540 E/W Line:E

5. Bottom Hole Location:
Unit:P Lot: Section:33 Township:31N Range:05W
Feet from:714 N/S Line:S
Feet from:540 E/W Line:E

6. latitude: 36.8506584 longitude: -107.3604431

7. County:
Rio Arriba

8. Operator Name and Address:
WPX ENERGY PRODUCTION, LLC
PO Box 640
721 South Main
Aztec 87410

9. OGRID: 120782

10. Phone Number: 505-333-1801

11. Last Fracture Date: 9/16/2015 Frac Performed by: Baker Hughes

12. Production Type:
G

13. Pool Code(s):
71599, 72319

14. Gross Fractured Interval:
5,510 ft to 8,090 ft

15. True Vertical Depth (TVD):
8,225 ft

16. Total Volume of Fluid Pumped:
507,234 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%	89.653%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Listed with Chemicals in Ingredients	N/A	0%	0.5834%
GBW-5	Baker Hughes	Breaker	Listed with Chemicals in Ingredients	N/A	0%	0.0098%
CI-27	Baker Hughes	Corrosion Inhibitor	Listed with Chemicals in Ingredients	N/A	0%	0.0014%
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Listed with Chemicals in Ingredients	N/A	0%	0.046%
Ferrotrol 300L	Baker Hughes	Iron Control	Listed with Chemicals in Ingredients	N/A	0%	0.002%
Sand, White, 100 mesh	Baker Hughes	Proppant	Listed with Chemicals in Ingredients	N/A	0%	0.1709%
Sand, Brown, 30/70	Baker Hughes	Proppant	Listed with Chemicals in Ingredients	N/A	0%	1.3385%
Sand, AZ Silica, 20/40	Baker Hughes	Proppant	Listed with Chemicals in Ingredients	N/A	0%	8.1642%
GasFlo G2	Baker Hughes	Surfactant	Listed with Chemicals in Ingredients	N/A	0%	0.0006%
Chemical Ingredients	Baker Hughes	Treatment System	1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl) amino]-, polymer with 2-propenamide, sodium salt	83446-68-8	60%	0.0276%
			Ammonium Persulphate	7727-54-0	100%	0.009751%
			Citric Acid	77-92-9	60%	0.001203%
			Cocamidopropyl Betaine	61789-40-0	20%	0.000126%
			Cocamidopropylamide Oxide	68155-09-9	20%	0.000126%
			Crystalline Silica (Quartz)	14808-60-7	100%	9.670332%
			Fatty Acids	61790-12-3	30%	0.000425%
			Formaldehyde	50-00-0	0.05%	1E-06%
			Glycerol	56-81-5	1%	6E-06%
			Hydrochloric Acid	7647-01-0	15%	0.087476%
			Hydrotreated Light Distillate	64742-47-8	30%	0.0138%
			Methanol	67-56-1	60%	0.000849%
			Olefin	64743-02-8	5%	7.1E-05%
			Oxyalkylated alcohol	78330-21-9	5%	0.0023%
			Polyoxyalkylenes	68951-67-7	30%	0.000425%
			Polyoxyethylene sorbitan monooleate	9005-65-6	5%	0.0023%
			Propargyl Alcohol	107-19-7	10%	0.000142%
			Sodium Chloride	7647-14-5	30%	0.002495%
			Sorbitan, mono-(9Z) -9-octadecenoate	1338-43-8	5%	0.0023%
			Thiourea Polymer	68527-49-1	30%	0.000425%
			Water	7732-18-5	85%	0.524814%
Ingredients shown above are subject to 29 CFR 1910					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: Lila Miller Title: Engineering Tech II

Date: 11/18/2015

E-mail Address: Lila.Miller@wpxenergy.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.