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. 30-043-21136
2. Well Name: CHACO 2306 19E #188H
3. Well Number: 188H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location: Unit:E Lot:2 Section:19 Township:23N Range:06W; Feet from:1779 N/S Line:N; Feet from:302 E/W Line:W
5. Bottom Hole Location: Unit:D Lot: Section:24 Township:23N Range:07W; Feet from:926 N/S Line:N; Feet from:230 E/W Line:W
6. latitude: 36.2132986149868 longitude: -107.517349363713
7. County: Sandoval

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: 9/4/2014 Frac Performed by: Halliburton
12. Production Type: O
13. Pool Code(s): 42289
14. Gross Fractured Interval: 5,948 ft to 10,865 ft
15. True Vertical Depth (TVD): 5,479 ft
16. Total Volume of Fluid Pumped: 825,459 gals
17. Total Volume of Re-Use Water Pumped: 288,911 gals
18. Percent of Re-Use Water in Fluid Pumped: 35%

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	Base Fluid	Water	7732-18-5	100%	52.61187%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	24.74028%
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.13027%
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.13027%
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00023%
			Ethanol	64-17-5	60%	0.01368%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00684%
			Naphthalene	91-20-3	5%	0.00114%
			Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl) -omega-hydroxy-, branched	127087-87-0	5%	0.00114%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.01995%
HC-2	Halliburton	Additive	Inner salt of alkyl amines	Confidential Business Information	30%	0.03345%
			Sodium chloride	7647-14-5	30%	0.03345%
POTASSIUM CHLORIDE	Halliburton	Additive	Potassium chloride	7447-40-7	100%	0.92513%
BC-140	Halliburton	Crosslinker	Ethylene glycol	107-21-1	30%	0.00347%
			Monoethanolamine borate	26038-87-9	60%	0.00694%
SandWedge® NT	Halliburton	Conductivity Enhancer	Dipropylene glycol monomethyl ether	34590-94-8	60%	0.03034%
			Heavy aromatic petroleum naphtha	64742-94-5	10%	0.00506%
ER-25	Halliburton	Resin	Bisphenol A / Epichlorohydrin resin	25068-38-6	30%	0.00554%
			Butyl glycidyl ether	2426-08-6	5%	0.00092%
			Dipropylene glycol monomethyl ether	34590-94-8	100%	0.01847%
BA-40L BUFFERING AGENT	Halliburton	Buffer	Potassium carbonate	584-08-7	60%	0.00042%
GBW-30 BREAKER	Halliburton	Breaker	Hemicellulase enzyme	9012-54-8	30%	0.00084%
			Carbohydrates	Confidential Business Information	100%	0.0028%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00079%
			Walnut hulls	Mixture	100%	0.00263%
NITROGEN LIQUEFIED	Halliburton	Fluid	Nitrogen	7727-37-9	100%	21.25134%
Ingredients Listed Below This Line Are Part of the			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			C.I. Pigment Red 5	6410-41-9	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Epichlorohydrin	106-89-8	0%	0%
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%
			Glycerine	56-81-5	0%	0%
			Methanol	67-56-1	0%	0%
			Naphthalene	91-20-3	0%	0%
			Oxyalkylated phenolic resin	Confidential Business Information	0%	0%
			Oxyalkylated phenolic resin	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary ammonium compound	Confidential Business Information	0%	0%
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl) dimethyl,salts with bentonite	68953-58-2	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Water	7732-18-5	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: 10/22/2014

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.