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, 2017

1. WELL API NO: 30-015-41296
2. Well Name: TRANQUIL 13 STATE #004H
3. Well Number: 004H
4. Surface Hole Location: Unit D Lot D Section 13 Township 25S Range 27E; Feet from: 330 N/S Line N; Feet from: 660 E/W Line W
5. Bottom Hole Location: Unit D Lot D Section 13 Township 25S Range 27E; Feet from: 330 N/S Line N; Feet from: 660 E/W Line W
6. latitude: 32.136419632717 longitude: -104.150350246909
7. County: Eddy

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original
☐ Amendment

8. Operator Name and Address:
DEVON ENERGY PRODUCTION COMPANY, LP
333 W. Sheridan Avenue
Oklahoma City 73102

9. OGRID: 6137
10. Phone Number: 405-228-8588

11. Last Fracture Date: 5/13/2015 Frac Performed by: FTSI
12. Production Type: O
13. Pool Code(s): 96210
14. Gross Fractured Interval: 7,755 ft - 17,656 ft
15. True Vertical Depth (TVD): 7,755 ft
16. Total Volume of Fluid Pumped: 4,795,602 gals
17. Total Volume of Re-Use Water Pumped: 0 bbls
18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed

☒ **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%	81.48277559%
30/50 White	FTSI	Proppant	Silica, Quartz	14808-60-7	100%	15.3858091%
20/40 White	FTSI	Proppant	Silica, Quartz	14808-60-7	100%	1.91129686%
Hydrochloric Acid (HCl)	FTSI	Acid	Water	7732-18-5	63%	0.57182175%
			Hydrogen Chloride	7647-01-0	37%	0.335832%
NE-100	FTSI	Non-emulsifier	Water	7732-18-5	90%	0.07122987%
			2-Propanol	67-63-0	10%	0.00791143%
			2-Butoxyethanol	111-76-2	10%	0.00791143%
			Dodecylbenzenesulfonic acid	27176-87-0	5%	0.00395711%
			Benzene, C10-16 Alkyl Derivatives	68648-87-3	0.04%	3.32E-05%
			Unsulphonated Matter	Proprietary	0.03%	2.22E-05%
			Sulfuric Acid	7664-93-9	0.01%	1.11E-05%
			Sulfur Dioxide	2025584	0%	1.1E-06%
B-10	FTSI	High pH Buffer	Water	7732-18-5	55%	0.03134299%
			Potassium carbonate	584-08-7	45%	0.02725358%
			Potassium hydroxide	1310-58-3	20%	0.0113974%
BXL-3	FTSI	Crosslinker	Water	7732-18-5	60%	0.00462509%
			Borate Salt	1319-33-1	40%	0.00308339%
			Potassium Formate	590-29-4	30%	0.012412%
			Hydrated aluminum-magnesium silicate magnesium	12174-11-7	5%	0.00206697%
			Sodium Sulfate	7757-82-6	0.1%	4.14E-05%
			Sodium Chloride	7647-14-5	0.1%	4.14E-05%
			Crystalline Silica, Quartz	14808-60-7	0.1%	4.14E-05%
BXL-2	FTSI	Borate Crosslinker	Water	7732-18-5	75%	0.00579974%
			Sodium metaborate	10555-76-7	25%	0.00859999%
			Boric acid	10043-35-3	15%	0.00515999%
			Potassium hydroxide	1310-58-3	12%	0.00412799%
FRW-200	FTSI	Friction reducer	Water	7732-18-5	46%	0.0095195%
			Copolymer of acrylamide and sodium acrylate	25987-30-8	33%	0.00682009%
			Petroleum distillate hydrotreated light	64742-47-8	26%	0.00488556%
			Acrylamide PW acrylic acid, ammonium salt	26100-47-0	25%	0.00469977%
			Ammonium Chloride	12125-02-9	12%	0.00225499%
			Surfactant	Proprietary	7%	0.00131515%
			Hydrotreated heavy paraffinic	64742-54-7	5%	0.00093955%
			Alcohols (C12-C16), ethoxylated	68551-12-2	4%	0.00075164%
			Alcohols (C12-C14), ethoxylated	68439-50-9	4%	0.00075164%
			Alcohols (C10-C16), ethoxylated	68002-97-1	4%	0.00075164%
			Sorbitan Monoleate	1338-43-8	3%	0.00056373%
			Polyethylene glycol monooleate	9004-96-0	3%	0.00056373%
			Sorbitol Tetraoleate	61723-83-9	2%	0.00037582%
			Dewaxed heavy paraffinic	64742-65-0	1.5%	0.00028179%
			Alkylaryloxypolyethyleneoxyethanol	64133-50-6	1%	0.0001879%
			Ammonium Acrylate	10604-69-0	0.5%	9.4E-05%
			Isopropanol	67-63-0	0.3%	5.64E-05%
			Acrylamide	79-06-1	0.1%	1.88E-05%
LTB-1	FTSI	Breaker	Cured acrylic resin	Proprietary	100%	0.00034515%
			Ammonium Persulfate	7727-54-0	100%	0.00034515%
			Cured acrylic resin	Proprietary	25%	0.00033635%
			Silica, Crystalline-Quartz	14808-60-7	16%	0.00016052%
			Silica, Crystalline- Quartz	14808-60-7	10%	0.00009455%
CS POLYBREAK 210	FTSI	Polymer breaker	Water	7732-18-5	95%	0.01669445%
			Sodium chlorite	7758-19-2	5%	0.00089451%
			Sodium Hydroxide	1310-73-2	0%	1E-07%
FE-200L	FTSI	Iron Control	Water	7732-18-5	60%	0.0012997%
			Tetrasodium EDTA	64-02-8	41%	0.00088826%
			Sodium Hydroxide	1310-73-2	2%	4.23E-06%
			Thiodiacetic Acid/diacetic acid	1622-67-7	1%	2.12E-06%
			Sodium glycolate	2836-32-0	1.5%	3.18E-06%
			Hydroxyacetic/diacetic/acid trisodium salt	139019-43-3	0.5%	1.06E-06%
			Sodium formate	141-53-7	0.6%	1.27E-06%
			Iminodiacetate disodium salt	17593-73-8	0.2%	4.2E-06%
APB-1	FTSI	Gel breaker	Ammonium Persulfate	7727-54-0	100%	0.00024171%
CI-150	FTSI	Acid Corrosion Inhibitor	Ethylene Glycol	107-21-1	30%	0.00048111%
			Organic amine resin salt	Proprietary	30%	0.00048111%
			Isopropanol	67-63-0	30%	0.00048111%
			Dimethylformamide	68-12-2	10%	0.00016044%
			Alkylene Oxide Block Polymer	Proprietary	10%	0.00016044%
			Aromatic aldehyde	Proprietary	10%	0.00016044%
			Quaternary ammonium compound	Proprietary	10%	0.00016044%
			Water	7732-18-5	5%	8.02E-05%
			Diethylene glycol	111-46-6	1%	1.6E-05%
			Fatty Acid Salt	Proprietary	0.1%	1.6E-06%
			Fatty Acid	Proprietary	0.1%	1.6E-06%
			Aliphatic alcohol	Proprietary	0.1%	1.6E-06%

30. 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: Sara Cook
Title: Regulatory Associate
Date: 6/3/2015
E-mail Address: sara.cook@dvn.com

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