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 5, 2013

1. WELL API NO.
30-015-43923

2. Well Name:
COTTON DRAW UNIT #278H

3. Well Number:
278H

4. Surface Hole Location:
Unit A: Lot A: Section: 13 Township: 25S Range: 31E
Feet from: 200 N/S Line: N
Feet from: 670 E/W Line: E

5. Bottom Hole Location:
Unit A: Lot A: Section: 13 Township: 25S Range: 31E
Feet from: 200 N/S Line: N
Feet from: 670 E/W Line: E

6. latitude: 32.1375735 longitude: -103.7230053

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: 405-552-6559

11. Last Fracture Date: 12/12/2017 Frac Performed by: FTSI

12. Production Type:
Oil

13. Pool Code(s):
96757

14. Gross Fractured Interval:
8,332 ft to 13,040 ft

15. True Vertical Depth (TVD):
8,121 ft

16. Total Volume of Fluid Pumped:
26,387,153 gals

17. Total Volume of Re-Use Water Pumped:

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%	81.33018996%
B-3	FTSI	Low pH buffer	Diethylenetriamine	111-40-0	100%	0.0002404%
			Methanol	67-56-1	50%	0.00012002%
			Proprietary	Proprietary	0%	0%
15.1%-20% HCL	FTSI	Acid	Hydrogen Chloride	7647-01-0	20%	0.09062505%
			Water	7732-18-5	80%	0.03625002%
CI-150	FTSI	Acid Corrosion Inhibitor	Isopropanol	67-63-0	60%	9.32E-05%
			Dimethylformamide	68-12-2	10%	1.55E-05%
			Organic amine resin salt	Proprietary	30%	4.66E-05%
			Quaternary ammonium compound	Proprietary	10%	1.55E-05%
			Aromatic aldehyde	Proprietary	30%	4.66E-05%
			Ethylene Glycol	107-21-1	30%	4.66E-05%
			Methanol	67-56-1	60%	9.32E-05%
			Aromatic Ketone compound	Proprietary	30%	4.66E-05%
			Aromatic Aldehyde	Proprietary	10%	1.55E-05%
			Ethoxylated Alcohols	Proprietary	10%	1.55E-05%
			Fatty acid tetraethyl ester	Proprietary	5%	7.8E-06%
			Acetic Acid	64-19-7	5%	7.8E-06%
			Acetophenone	98-86-2	5%	7.8E-06%
			Cinnamaldehyde	Proprietary	5%	7.8E-06%
			Formaldehyde	50-00-0	5%	7.8E-06%
			Fatty amino compound salt	Proprietary	30%	4.66E-05%
			Ethoxylated fatty alcohol	Proprietary	30%	4.66E-05%
			Water	7732-18-5	30%	4.66E-05%
			Fatty Acid	Proprietary	0.1%	2E-07%
			Fatty Acid Salt	Proprietary	0.1%	2E-07%
			Aliphatic alcohol	Proprietary	0.1%	2E-07%
			Alkylene Oxide Block Polymer	Proprietary	10%	1.55E-05%
			Polyalkylene glycol	Proprietary	10%	1.55E-05%
			Diethylene glycol	111-46-6	1%	1.6E-06%
CS POLYBREAK 2100W	FTSI	Polymer breaker	Sodium chloride	7647-14-5	20%	0.00029952%
			Sodium chlorite	7758-19-2	5%	0.00007338%
			Water	7732-18-5	90%	0.01213253%
			Stabilized Aqueous Chlorine Dioxide	10049-04-4	5%	0.00007338%
			Sodium Hydroxide	1310-73-2	0.5%	6.74E-05%
FE-200L	FTSI	Iron Control	Tetrasodium EDTA	64-02-8	41%	8.41E-06%
			Sodium Hydroxide	1310-73-2	2%	4.1E-06%
			Trisodium Nitrilotriacetic acid	5064-31-3	2%	4.1E-06%
			Ethylenediaminetetraacetic acid	19019-43-3	0.5%	1.6E-06%
			Potassium salt			
			Water	7732-18-5	65%	0.00013335%
			Sodium formate	141-53-7	0.6%	1.2E-06%
			Sodium gluconate	2836-32-0	1.5%	3.1E-06%
			Immodiacetate disodium salt	17593-73-6	0.2%	4E-07%
FRW-900	FTSI	Friction Reducer - Zwitter ionic	Copolymer of 2-Propenamide	69418-26-4	30%	0.00403435%
			Hydrotreated Petroleum Distillate	64742-47-8	25%	0.00336536%
			Alcohol Ethoxylate Surfactants	Trade Secret	2%	0.00029237%
			Oleic Acid Diethanolamide	93-83-4	2%	0.00029237%
			Water	7732-18-5	50%	0.00730711%
			Ammonium Chloride	12125-02-9	1%	0.00014611%
NE-100W	FTSI	Non-emulsifier	Methanol	67-56-1	15%	0.01163451%
			2-Butoxyethanol	111-76-2	15%	0.01163451%
			2-Propanol	67-63-0	10%	0.00775634%
			Dodecylbenzenesulfonic acid	27176-87-0	5%	0.00387817%
			Water	7732-18-5	80%	0.06205093%
AQUCAR 714	FTSI	Biocide	Glutaraldehyde	111-30-8	14%	0.00310484%
			Quaternary ammonium compounds, benzyl-(C12-C16-alkyldimethyl), chlorides	68424-85-1	2.5%	0.00055444%
			Ethanol	64-17-5	0.3%	6.65E-05%
			Water	7732-18-5	83%	0.01840462%
APB-1	FTSI	Gel breaker	Ammonium Persulfate	7727-54-0	100%	0.00064411%
LTB-1	FTSI	Breaker	Ammonium Persulfate	7727-54-0	84%	0.00271363%
			Cured acrylic resin	25085-19-2	22%	0.00071257%
			Talc	14807-96-6	0.6%	1.91E-05%
B-5	FTSI	Low pH buffer	Acetic acid	64-19-7	50%	0.01125275%
			Water	7732-18-5	35%	0.00580093%
BXL-5	FTSI	Instant Borate Crosslinker	Potassium Metaborate	1332-77-0	20%	0.02157176%
			Potassium Hydroxide	1310-58-3	60%	0.06455293%
			Water	7732-18-5	30%	0.03227646%
CS-250 SI	FTSI	Scale Inhibitor	Ethylene glycol	107-21-1	13%	0.00828984%
			Water	7732-18-5	55%	0.03507115%
			Sodium chloride	7647-14-5	10%	0.00131417%
			Sodium Polyacrylate	9003-04-7	10%	0.00131417%
HVG-1 4.0	FTSI	Water gelling agent	Guar gum	9000-30-0	55%	0.08859372%
			Naphthenic, Sorption Process	64741-85-1	55%	0.08859372%
			Quartz	14808-60-7	4%	0.00644364%
			Isotridecanol, ethoxylated	9043-30-5	2%	0.00322171%
			Petroleum Distillate	64742-47-8	55%	0.08859372%
			Suspending Agent	1302-78-9	5%	0.00805429%
30/50 White	FTSI	proppant	Silica, Quartz	14808-60-7	100%	6.01379297%
20/40 White	FTSI	proppant	Silica, Quartz	14808-60-7	100%	12.0769375%

30. List 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: Linda Good Title: Regulatory Compliance Professional

Date: 2/2/2017

E-mail Address: linda.good@dvn.com

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