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.
30-025-41264

2. Well Name:
COTTON DRAW 33 4 FEDERAL COM #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:C Lot:C Section:33 Township:24S Range:32E
Feet from:330 N/S Line:N
Feet from:1345 E/W Line:W

5. Bottom Hole Location:
Unit:C Lot:C Section:33 Township:24S Range:32E
Feet from:330 N/S Line:N
Feet from:1345 E/W Line:W

6. latitude: 32.1802653685078 longitude: -103.68381278868

7. County:
Lea

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: 3/3/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
49490

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
8,428 ft

16. Total Volume of Fluid Pumped:
2,692,388 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)
Fresh Water	Operator	Base Fluid	Fresh Water	7732-18-5	100%	5.772807%
Lease Water	Operator	Base Fluid	Lease Water	NA	100%	83.34628%
FE Acid < 10%	Halliburton	Acid	Hydrochloric acid	7647-01-0	100%	1.3775547%
100 Mesh	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	3.9430828%
Premium White 40/70	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	5.3888445%
PermVis VFR-10	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.0205969%
OILPERM FMM-7, BULK	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.0006176%
			Ethanol	64-17-5	60%	0.0370585%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.0185292%
			Naphthalene	91-20-3	5%	0.0030882%
			Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl) -omega-hydroxy-, branched	127087-87-0	5%	0.0030882%
Cla-Web(TM)	Halliburton	Additive	Ammonium salt	Confidential	60%	0.0026963%
SandWedge(R) NT	Halliburton	Conductivity Enhancer	Dipropylene glycol monomethyl ether	34590-94-8	60%	0.0148097%
			Heavy aromatic petroleum naphtha	64742-94-5	10%	0.0024683%
ISOPROPYL ALCOHOL	Halliburton	Solvent	Isopropanol	67-63-0	100%	0.0030978%
OptiKleen-WF(TM)	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.0087353%
Ingredients Listed Below This Line Are Part of the			Alcohols ethoxylated	Confidential	0%	0.0027266%
			Amide	Confidential	0%	0.0027266%
			Amine salts	Confidential	0%	4.7E-06%
			Ammonium chloride	12125-02-9	0%	0.0027266%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	8.38E-05%
			Crystalline Silica, Quartz	14808-60-7	0%	1.7E-06%
			Cured acrylic resin	Confidential	0%	7.32E-05%
			Methanol	67-56-1	0%	0.0001594%
			Naphthalene	91-20-3	0%	1.6E-06%
			Oxyalkylated phenolic resin	Confidential	0%	0.0050088%
			Oxyalkylated phenolic resin	Confidential	0%	0.0150263%
			Polyacrylamide copolymer	Confidential	0%	0.0163596%
			Quaternary amine	Confidential	0%	0.0002325%
			Quaternary amine	Confidential	0%	4.65E-05%
			Quaternary amine	Confidential	0%	4.7E-06%
			Quaternary ammonium compound	Confidential	0%	0.0015936%
			Silica gel	112926-00-8	0%	1.68E-05%
			Sodium chloride	7647-14-5	0%	0.0029591%
			Sodium sulfate	7757-82-6	0%	0%
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	0%	0.0005453%
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	0%	0.0005453%
			Surfactant mixture	Confidential	0%	1.68E-05%
			Surfactant mixture	Confidential	0%	1.68E-05%
			Water	7732-18-5	0%	0.0358816%

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: Sara Cook Title: Regulatory Associate

Date: 3/24/2015

E-mail Address: sara.cook@dvn.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.