

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:
30-025-41794

2. Well Name:
THISTLE UNIT #053H

3. Well Number:
053H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:B Lot:B Section:28 Township:23S Range:33E
Feet from:200 N/S Line:N
Feet from:2030 E/W Line:E

5. Bottom Hole Location:
Unit:B Lot:B Section:28 Township:23S Range:33E
Feet from:200 N/S Line:N
Feet from:2030 E/W Line:E

6. latitude: longitude:
32.2824235198814 -103.575338925832

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: 11/28/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
59900

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
11,203 ft

16. Total Volume of Fluid Pumped:
3,868,242 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%	88.37787%
FE ACID - <10% HCL	Halliburton	Acid	Hydrochloric acid	7647-01-0	10%	0.08052%
100 Mesh	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.08977%
Premium White - 30/50	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	6.24874%
CRC 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	3.30438%
			Hexamethylenetetramine	100-97-0	2%	0.06609%
			Phenol / formaldehyde resin	9003-35-4	5%	0.16522%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00249%
Iosurf-360w	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), alpha -isodecyl- omega -hydroxy- Glycerine	61827-42-7	30%	0.09456%
			Complex alkylamine	56-81-5	10%	0.03152%
				Confidential Business Information	5%	0.01576%
Cia-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02214%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.00739%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00085%
			Potassium metaborate	13709-94-9	60%	0.01015%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.01237%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00257%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.00264%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.00264%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.08793%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00393%
			Crystalline silica, quartz	14808-60-7	30%	0.00118%
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.0036%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00022%
Ingredients Listed Below This Line Are Part of the			Acrylate polymer	Confidential Business Information	0%	0%
			Alcohols, C12-16, ethoxylated	68551-12-2	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Ammonium chloride	12125-02-9	0%	0%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Borate salts	Confidential Business Information	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Fatty acid tall oil amide	Confidential Business Information	0%	0%
			Polyacrylamide copolymer	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%
			Silica gel	112926-00-8	0%	0%
			Sodium carboxymethyl cellulose	9004-32-4	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycolate	2836-32-0	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Sorbitan monooleate	9005-65-6	0%	0%
			polyoxyethylene derivative			
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Surfactant mixture	Confidential Business Information	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: Sara Cook Title: Regulatory Associate

Date: 12/22/2014

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.