

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:
30-025-42486

2. Well Name:
THISTLE UNIT #072H

3. Well Number:
072H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:O Lot:O Section:27 Township:23S Range:33E
Feet from:330 N/S Line:S
Feet from:2630 E/W Line:E

5. Bottom Hole Location:
Unit:O Lot:O Section:27 Township:23S Range:33E
Feet from:330 N/S Line:S
Feet from:2630 E/W Line:E

6. latitude:
32.26935636 longitude:
-103.56018586

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:
8/9/2015 Frac Performed by:
FTS International Services

12. Production Type:
O

13. Pool Code(s):
59900

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
10,990 ft

16. Total Volume of Fluid Pumped:
42,949,442 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)
Water	Operator	Carrier	Water	7732-18-5		84.5897754%
APB-1	FTSI	Gel breaker	Ammonium Persulfate	7727-54-0		0.0015204%
B-10	FTSI	High pH buffer	Potassium carbonate	584-08-7		0.0272626%
			Potassium hydroxide	1310-58-3		0.0113594%
			Water	7732-18-5		0.0312394%
BXL-2	FTSI	Borate crosslinker	Sodium metaborate	10555-76-7		0.0105671%
			Boric acid	10043-35-3		0.0063403%
			Potassium hydroxide	1310-58-3		0.0050722%
BXL-3	FTSI	Crosslinker	Water	7732-18-5		0.0317013%
			proprietary (borate) Salt	1319-33-1		0.0197928%
			Hydrated aluminium-magnesium silicate (polygorskite)	12174-11-7		0.0024741%
			calcium carbonate	1317-65-3		0.0024741%
			polyanionic cellulose	9004-32-4		0.0004948%
			modified polyacrylate	trade secret		0.0004948%
			magnesium	16389-88-1		0.0004948%
			water	7732-18-5		0.0247411%
			potassium formate	590-29-4		0.0173187%
			crystalline silica, quartz	14808-60-7		2.47E-05%
CI-150	FTSI	Acid Corrosion Inhibitor	sodium chloride	7647-14-5		2.5E-06%
			Isopropanol	67-63-0		0.0002406%
			Dimethylformamide	68-12-2		8.02E-05%
			Organic amine resin salt	Proprietary		0.0002406%
			Quaternary ammonium compound	Proprietary		8.02E-05%
			Aromatic aldehyde	Proprietary		8.02E-05%
			Ethylene Glycol	107-21-1		0.0002406%
			Water	7732-18-5		4.01E-05%
			Fatty Acid	Proprietary		8E-07%
			Fatty Acid Salt	Proprietary		8E-07%
			Aliphatic alcohol	Proprietary		8E-07%
			Alkylene Oxide Block Polymer	Proprietary		8.02E-05%
CS POLYBREAK 210	FTSI	Polymer breaker	Diethylene glycol	111-46-6		8E-06%
			Sodium chloride	7758-19-2		0.0014712%
			Water	7732-18-5		0.0279522%
FE-200L	FTSI	Iron Control	Sodium Hydroxide	1310-73-2		0%
			Tetrasodium EDTA	64-02-8		0.0004338%
			Sodium Hydroxide	1310-73-2		2.12E-05%
			Trisodium Nitrotriacetic acid	5064-31-3		2.12E-05%
			Ethylenediaminetriacetic acid, trisodium salt	19019-43-3		8.5E-06%
			Water	7732-18-5		0.0006349%
			Sodium formate	141-53-7		6.3E-06%
			Sodium glycolate	2836-32-0		1.59E-05%
			Iminodiacetate disodium salt	17593-73-6		2.1E-06%
LTB-1	FTSI	Breaker	Ammonium Persulfate	7727-54-0		0.0235259%
			Cured acrylic resin	Proprietary		0.0235259%
			Silica, Crystalline- Quartz	14808-60-7		0.0023526%
			Proprietary	Proprietary		0%
FRW-200	FTSI	Friction reducer	Petroleum distillate	64742-47-8		0.0079973%
			Hydrotreated light	26100-47-0		0.0076898%
			Acrylamide P/W acrylic acid, ammonium salt			
			Water	7732-18-5		0.0147643%
			Sorbitan Monooleate	1338-43-8		0.0009228%
			Alcohols (C12-C14), ethoxylated	68439-50-9		0.0012304%
			Alcohols (C12-C16), ethoxylated	68551-12-2		0.0012304%
			Alcohols (C10-C16), ethoxylated	68002-97-1		0.0012304%
			Acrylamide	79-06-1		3.08E-05%
			Dewaxed heavy paraffinic	64742-65-0		0.0004614%
			Ammonium Acrylate	10604-69-0		0.0001538%
			Ammonium Chloride	12125-02-9		0.0036911%
			Polyethylene glycol monooleate	9004-96-0		0.0009228%
			Alkylpolyethyleneoxyethanol	84133-50-6		0.0003076%
			Sorbitol Tetraoleate	61723-83-9		0.0006152%
			Copolymer of acrylamide and sodium acrylate	25987-30-8		0.0101505%
			Surfactant	Proprietary		0.0021531%
			Hydrotreated heavy paraffinic	64742-54-7		0.001538%
HVG-14.0	FTSI	Water gelling agent	Isopropanol	67-63-0		9.23E-05%
			Guar gum	9000-30-0		0.1110151%
			Raffinates, Sorption Process	64741-85-1		0.1221166%
			Quartz	14808-60-7		0.0088812%
ICI-3240	FTSI	Biocide	Isotridecanol, ethoxylated	9043-30-5		0.0044406%
			Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.	533-74-4		0.0059217%
			Sodium Hydroxide	1310-73-2		0.005675%
LTB-1	FTSI	Breaker	Water	7732-18-5		0.0135706%
			Ammonium Persulfate	7727-54-0		0.0108293%
			Cured acrylic resin	Proprietary		0.0108293%
			Silica, Crystalline- Quartz	14808-60-7		0.0010829%
NE-100	FTSI	Non-emulsifier	Proprietary	Proprietary		0%
			2-Butoxyethanol	111-76-2		0.0082872%
			2-Propanol	67-63-0		0.0082872%
			Dodecylbenzenesulfonic acid	27176-87-0		0.0041436%
			Water	7732-18-5		0.074565%
			Sulfuric Acid	7664-43-9		1.16E-05%
			Sulfur Dioxide	7446-09-5		1.2E-06%
			Benzene, C10-16 Alkyl Derivatives	68648-87-3		3.48E-05%
			Unsulphonated Matter	Proprietary		2.32E-05%
40/70 White	FTSI	proppant	Silica, Quartz	14808-60-7		1.4917421%
30/50 White	FTSI	proppant	Silica, Quartz	14808-60-7		8.5522543%
20/40 White	FTSI	proppant	Silica, Quartz	14808-60-7		4.5101519%

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:
3/2/2016
rebecca.deal@dev.com

Printed Name:
Rebecca Deal

Title:
Regulatory Professional

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