

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

1. WELL API NO:
30-025-42681

2. Well Name:
THISTLE UNIT #124H

3. Well Number:
124H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit/D: Lot/D: Section: 22 Township: 23S Range: 33E
Feet from: 250 N/S Line: N
Feet from: 400 E/W Line: W

5. Bottom Hole Location:
Unit/D: Lot/D: Section: 22 Township: 23S Range: 33E
Feet from: 250 N/S Line: N
Feet from: 400 E/W Line: W

6. latitude: 32.295787 longitude: -103.5674649

7. County:
LBS

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: 8/30/2016 Frac Performed by: FTSI

12. Production Type:
O

13. Pool Code(s):
59900

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
9,777 ft

16. Total Volume of Fluid Pumped:
74,559,319 gals

17. Total Volume of Re-Use Water Pumped:
N/A

18. Percent of Re-Use Water in Fluid Pumped:
Not Disclosed

10. 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		85.2509254%
Hydrochloric Acid (HCl)	FTSI	Acid	Hydrogen Chloride	7647-01-0		0.0801614%
			Water	7732-18-5		0.136461%
CI-150	FTSI	Acid Corrosion Inhibitor	Isopropanol	67-63-0		0.0001353%
			Dimethylformamide	68-12-2		4.51E-05%
			Organic amine resin salt	Proprietary		0.0001353%
			Quaternary ammonium compound	Proprietary		4.51E-05%
			Aromatic aldehyde	Proprietary		0.0001353%
			Ethylene Glycol	107-21-1		0.0001353%
			Methanol	67-56-1		0.0002705%
			Aromatic Ketone compound	Proprietary		0.0001353%
			Aromatic Aldehyde	Proprietary		4.51E-05%
			Ethoxylated Alcohol	Proprietary		4.51E-05%
			Oxyalkylated Alcohol	Proprietary		2.25E-05%
			Acetic Acid	64-19-7		2.25E-05%
			Acetophenone	98-38-7		2.25E-05%
			Oxyalkylated Fatty Amine	Proprietary		2.25E-05%
			Formaldehyde	50-00-0		2.25E-05%
			Water	7732-18-5		4.51E-05%
			Fatty Acid	Proprietary		5E-07%
			Fatty Acid Salt	Proprietary		5E-07%
			Aliphatic alcohol	Proprietary		5E-07%
			Alkylene Oxide Block Polymer	Proprietary		4.51E-05%
			Polyalkylene glycol	Proprietary		4.51E-05%
NE-100	FTSI	Non-emulsifier	Diethylene glycol	111-76-2		4.5E-06%
			2-Butoxyethanol	117-75-2		0.0001836%
			Dodecylbenzenesulfonic acid	27176-87-0		0.0081836%
			Water	7732-18-5		0.0736527%
FE-200L	FTSI	Iron Control	Tetrasodium EDTA	64-02-8		0.0002439%
			Sodium hydroxide	1310-73-2		1.19E-05%
			Trisodium Nitrotriacetic acid	5064-31-3		1.19E-05%
			Ethylenediaminetriacetic acid, trisodium salt	19019-43-3		0.8%
			Water	7732-18-5		0.0003667%
			Sugar	141-53-7		3.8E-06%
			Sodium formate	2836-32-0		8.9E-06%
			Sodium glycolate	17593-73-6		1.2E-06%
			Iminodiacetate disodium salt	64742-47-8		0.0081616%
FRW-200	FTSI	Friction reducer	Petroleum distillate			
			hydroreated light			
			Oleic Acid Diethanolamide	93-83-4		0.0004081%
			Acrylamide FW acrylic acid, ammonium salt	26100-47-0		0.0068013%
			Water	7732-18-5		
			Sorbitan Monoleate	1338-43-8		0.0163232%
			Alcohols (C12-C14), ethoxylated	68439-50-9		0.0008163%
			Alcohols (C12-C16), ethoxylated	68551-12-2		0.0010882%
			Alcohols (C10-C16), ethoxylated	68002-97-1		0.0010882%
			Acrylamide	79-06-1		2.72E-05%
			Dewaxed heavy paraffinic	64742-85-0		0.0004081%
			Ammonium Acrylate	10604-69-0		0.0001363%
			Ammonium Chloride	12125-02-9		0.0032646%
			Polyethylene glycol monooleate	9004-96-0		0.0008162%
			Alkylloxypolyethyleneoxyethanol	84133-50-6		0.0002721%
			Sorbitol Tetraoleate	61723-83-9		0.0005441%
			Copolymer of acrylamide and sodium acrylate	25967-30-8		0.0089777%
			Surfactant	Proprietary		7%
			Hydroreated heavy paraffinic	64742-54-7		0.0019044%
			Sorbitan, monooctadecanoate, poly(oxy-1,2-ethanediyl) derivs	9005-67-8		0.0013603%
CS POLYBREAK 210	FTSI	Polymer breaker	Isopropanol	67-63-0		8.16E-06%
			Sodium chlorite	7758-19-2		0.030877%
			Water	7732-18-5		0.0244462%
			Sodium Hydroxide	1310-73-2		2E-07%
KCLS-4	FTSI	Clay Control	Chlorine Dioxide	10049-04-4		3E-07%
			No hazardous materials	Not applicable.		0%
			Water	7732-18-5		0.0276229%
HVG-1 4.0	FTSI	Water gelling agent	Choline Chloride	67-48-1		0.0690571%
			Guar gum	9000-30-0		0.0706566%
			Raffinates, Sorption Process	64741-85-1		0.0706566%
			Quartz	14808-50-7		0.0051387%
			Isotriecanol, ethoxylated	9043-30-5		0.0025603%
			Petroleum Distillate	64742-47-8		0.0706566%
			Suspending Agent	1302-78-9		0.0064233%
APB-1	FTSI	Gel breaker	Ammonium Persulfate	7727-54-0		0.0012071%
B-10	FTSI	High pH buffer	Potassium carbonate	584-08-7		0.0177579%
			Potassium hydroxide	1310-58-3		20%
			Water	7732-18-5		0.0258969%
BXL-2	FTSI	Borate crosslinker	Potassium metaborate	16481-66-6		0.007432%
			Boric acid	10043-35-3		0.0014864%
			Potassium hydroxide	1310-58-3		0.0044592%
			Water	7732-18-5		0.022266%
BXL-3	FTSI	Crosslinker	proprietary (borate) Salt	1319-33-1		0.0293737%
			Hydrated aluminum-magnesium silicate (polygyskite)	12174-11-7		0.0036717%
			Calcium carbonate	1317-85-3		5%
			Ethane-1,2-Diol	107-21-1		0%
			Sodium Borate	1303-96-4		0%
			Acrylic Polymer	9003-04-7		0.000609%
			Polysaccharide	11138-06-2		0.0001469%
			polyanionic cellulose	9004-32-4		0.0007343%
			modified polyacrylate	trade secret		0.0007343%
			magnesium	16389-88-1		0.0007343%
			water	7732-18-5		0.0367171%
			potassium formate	590-29-4		0.025703%
			crystalline silica, quartz	14808-60-7		3.67E-05%
			sodium chloride	7647-14-5		0.01%
LTB-1	FTSI	Breaker	Ammonium Persulfate	7727-54-0		0.001121%
			Cured acrylic resin	25085-19-2		0.0002936%
			Talc	14807-96-6		8E-06%
ICI-3240	FTSI	Biocide	Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione, Sodium Hydroxide	533-74-4		0.0058023%
			Water	1310-73-2		23%
			Sodium Hydroxide	7732-18-5		55%
100 Mesh Sand	FTSI	proppant	Silica, Quartz	14808-60-7		2.3887557%
40/70 White	FTSI	proppant	Silica, Quartz	14808-60-7		2.897505%
30/50 White	FTSI	proppant	Silica, Quartz	14808-60-7		8.722923%

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: Rebecca Deal

Title: Regulatory Professional

Date: 9/29/2016

E-mail Address: rebecca.deal@dvn.com

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