

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:
30-025-43187

2. Well Name:
MORAB 29 20 FEDERAL COM #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:E Lot:E Section:29 Township:25S Range:32E
Feet from:2440 N/S Line:N
Feet from:660 E/W Line:W

5. Bottom Hole Location:
Unit:D Lot:E Section:20 Township:25S Range:32E
Feet from:433 N/S Line:N
Feet from:678 E/W Line:W

6. latitude:
32.1018807 longitude:
-103.7037373

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:
405-552-6559

11. Last Fracture Date:
3/15/2017 Frac Performed by:
FTSI

12. Production Type:
O

13. Pool Code(s):
96641

14. Gross Fractured Interval:
10,699 ft to 17,447 ft

15. True Vertical Depth (TVD):
10,411 ft

16. Total Volume of Fluid Pumped:
78,380,712 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		
10.1%-15.0% HCL	FTSI	Acid	Hydrogen Chloride	7647-01-0	15%	86.1806996%
			Water	7732-18-5	85%	0.0248355%
AQUACAR 714	FTSI	Biocide	Glutaraldehyde	111-30-8	14%	0.1407346%
			Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	2.5%	0.0031261%
			Ethanol	64-17-5		0.0005582%
			Water	7732-18-5	0.3%	6.7E-05%
B-5	FTSI	Low pH buffer	Acetic acid	64-19-7	83%	0.0185331%
			Water	7732-18-5	80%	0.0040332%
			Water	7732-18-5	35%	0.0017645%
CI-150	FTSI	Acid Corrosion Inhibitor	Isopropanol	67-63-0	60%	0.0002636%
			Dimethylformamide	68-12-2	10%	4.39E-05%
			Organic amine resin salt	Proprietary	30%	0.0001318%
			Quaternary ammonium compound	Proprietary	10%	4.39E-05%
			Aromatic aldehyde	Proprietary	30%	0.0001318%
			Ethylene Glycol	107-21-1	30%	0.0001318%
			Methanol	67-58-1	60%	0.0002636%
			Aromatic Ketone compound	Proprietary	30%	0.0001318%
			Aromatic Aldehyde	Proprietary	10%	4.39E-05%
			Ethoxylated Alcohols	Proprietary	10%	4.39E-05%
			Oxyalkylated Alcohol	Proprietary	5%	2.2E-05%
			Acetic Acid	64-19-7	5%	2.2E-05%
			Acetophenone	98-86-2	5%	2.2E-05%
			Oxyalkylated Fatty Amine	Proprietary	5%	2.2E-05%
			Formaldehyde	50-00-0	5%	2.2E-05%
			Fatty amino compound salt	Proprietary	30%	0.0001318%
			Ethoxylated fatty alcohol	Proprietary	30%	0.0001318%
			Water	7732-18-5	30%	0.0001318%
			Fatty Acid	Proprietary	0.1%	4E-07%
			Fatty Acid Salt	Proprietary	0.1%	4E-07%
			Aliphatic alcohol	Proprietary	0.1%	4E-07%
			Alkyene Oxide Block Polymer	Proprietary	10%	4.39E-05%
			Polyalkylene glycol	Proprietary	10%	4.39E-05%
			Diethylene glycol	111-46-6	1%	4.4E-06%
FE-200L	FTSI	Iron Control	Tetrasodium EDTA	64-02-8	41%	0.0002377%
			Sodium Hydroxide	1310-73-2	2%	1.16E-05%
			Trisodium Nitriotriacetic acid	5064-31-3	2%	1.16E-05%
			Ethylenediaminetriacetic acid, trisodium salt	19019-43-3	0.8%	4.6E-06%
			Water	7732-18-5	65%	0.0003769%
			Sodium formate	141-53-7	0.6%	3.5E-06%
			Sodium glycolate	2836-32-0	1.5%	8.7E-06%
			Iminodiacetate disodium salt	17593-73-6	0.2%	1.2E-06%
FRW-920	FTSI	Friction Reducer - Zwitter ionic	Copolymer of 2-Propenamide	69418-26-4	30%	0.0103767%
			Hydrotreated Petroleum Distillate	64742-47-8	25%	0.0086472%
			Alcohol Ethoxylate Surfactants	Trade Secret	2%	0.0006918%
			Oleic Acid Diethanolamide	93-83-4	2%	0.0006918%
			Water	7732-18-5	50%	0.0172945%
			Ammonium Chloride	12125-02-9	1%	0.0003459%
HVG-1 4.0	FTSI	Water gelling agent	Guar gum	9000-30-0	55%	0.082116%
			Raffinates, Sorption Process	64741-85-1	55%	0.082116%
			Quartz	14808-60-7	4%	0.0059721%
			Isotridecanol, ethoxylated	9043-30-5	2%	0.002986%
			Petroleum Distillate	64742-47-8	55%	0.082116%
			Suspending Agent	1302-78-9	5%	0.0074651%
LTB-1	FTSI	Breaker	Ammonium Persulfate	7727-54-0	84%	0.0019004%
			Cured acrylic resin	25085-19-2	22%	0.0004715%
			Talc	14807-96-6	0.6%	1.29E-05%
NE-100W	FTSI	Non-emulsifier	Methanol	67-56-1	15%	0.012531%
			2-Butoxyethanol	111-76-2	10%	0.008354%
			2-Propanol	67-63-0	10%	0.008354%
			Dodecylbenzenesulfonic acid	27176-87-0	5%	0.004177%
NE-100	FTSI	Non-emulsifier	Water	7732-18-5	80%	0.0668318%
			2-Butoxyethanol	111-76-2	10%	1.37E-05%
			2-Propanol	67-63-0	10%	1.37E-05%
			Dodecylbenzenesulfonic acid	27176-87-0	5%	6.8E-06%
LEB-1	FTSI	Breaker	Water	7732-18-5	90%	0.0001233%
			Water	7732-18-5	90%	0.0001099%
			Ethylene glycol	107-21-1	5%	6.1E-06%
			Mannanase Enzymes	Proprietary	2%	2.4E-06%
			Sodium Chloride	7647-14-5	15%	1.83E-05%
30/50 White	FTSI	proppant	Silica, Quartz	14808-60-7	100%	13.3555077%

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:
3/21/2017
linda.good@dvn.com

Signed Electronically
Printed Name: Linda Good

Regulatory Compliance
Title: Professional

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