

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 8, 2013

1. WELL API NO:
30-025-40986

2. Well Name:
MONK 21 STATE COM #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:D Lot:D Section:21 Township:21S Range:34E
Feet from:330 N/S Line:N
Feet from:460 E/W Line:W

5. Bottom Hole Location:
Unit:D Lot:D Section:21 Township:21S Range:34E
Feet from:330 N/S Line:N
Feet from:460 E/W Line:W

6. latitude: longitude:
32.4706939973396 -103.481885312941

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:
405-228-8589

11. Last Fracture Date:
3/3/2015 Frac Performed by: FTSI

12. Production Type:
O

13. Pool Code(s):
90660

14. Gross Fractured Interval:
11,021 ft to 15,172 ft

15. True Vertical Depth (TVD):
10,943 ft

16. Total Volume of Fluid Pumped:
4,579,092 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	100%	84.749647%
Hydrochloric Acid (HCl)	FTSI	Acid	Hydrogen Chloride	7647-01-0	37%	0.2669795%
100 Mesh Sand	FTSI	Proppant	Silica, Quartz	14808-60-7	100%	2.7063785%
30/50 White	FTSI	Proppant	Silica, Quartz	14808-60-7	100%	8.9383234%
20/40 Super LC	FTSI	Proppant	Crystalline Silica (quartz)	14808-60-7	97%	2.2289357%
			Phenol-Formaldehyde Novolak Resin	9003-35-4	5%	0.1148936%
B-10	FTSI	High pH buffer	Hexamethylenetetramine	100-97-0	1%	0.0229787%
			Potassium carbonate	584-08-7	46%	0.0150012%
			Potassium hydroxide	1310-58-3	20%	0.0062505%
BXL-2	FTSI	Borate crosslinker	Water	7732-18-5	55%	0.0171889%
			Sodium metaborate	10555-76-7	25%	0.0063524%
			Boric acid	10043-35-3	15%	0.0038174%
			Potassium hydroxide	1310-58-3	12%	0.0030539%
			Water	7732-18-5	75%	0.0190872%
BXL-3	FTSI	Crosslinker	Crystalline Silica, Quartz	14808-60-7	0.1%	3.82E-05%
			Borate Salt	1319-33-1	40%	0.0152823%
			Potassium Formate	590-29-4	30%	0.0114618%
			Hydrated aluminium-magnesium silicate (palygorskite)	12174-11-7	5%	0.0019103%
			Sodium Sulfate	7757-82-6	0.1%	3.82E-05%
			Sodium Chloride	7647-14-5	0.1%	3.82E-05%
APB-1	FTSI	Gel breaker	Water	7732-18-5	60%	0.0229235%
CI-150	FTSI	Acid Corrosion Inhibitor	Ammonium Persulfate	7727-54-0	100%	0.0031268%
			Isopropanol	67-63-0	30%	0.0003821%
			Dimethylformamide	68-12-2	10%	0.0001274%
			Organic amine resin salt	Proprietary	30%	0.0003821%
			Quaternary ammonium compound	Proprietary	10%	0.0001274%
			Aromatic aldehyde	Proprietary	10%	0.0001274%
			Ethylene Glycol	107-21-1	30%	0.0003821%
			Water	7732-18-5	5%	6.37E-05%
			Fatty Acid	Proprietary	0.1%	1.3E-06%
			Fatty Acid Salt	Proprietary	0.1%	1.3E-06%
			Aliphatic alcohol	Proprietary	0.1%	1.3E-06%
			Alkylene Oxide Block Polymer	Proprietary	10%	0.0001274%
			Diethylene glycol	111-46-6	1%	1.27E-05%
CS POLYBREAK 210W	FTSI	Polymer breaker	Sodium chloride	7647-14-5	15%	0.0036329%
			Sodium chlorite	7758-19-2	5%	0.001211%
			Water	7732-18-5	80%	0.0193753%
FE-200L	FTSI	Iron Control	Sodium Hydroxide	1310-73-2	0%	2E-07%
			Tetrasodium EDTA	64-02-8	41%	0.0006801%
			Sodium Hydroxide	1310-73-2	2%	3.36E-05%
			Trisodium Nitrotriacetate acid	5064-31-3	2%	3.36E-05%
			Ethylenediaminetriacetic acid, trisodium salt	19019-43-3	0.8%	1.34E-05%
			Water	7732-18-5	60%	0.0010085%
			Sodium formate	141-53-7	0.6%	1.01E-05%
			Sodium glycolate	2836-32-0	1.5%	2.52E-05%
			Iminodiacetate disodium salt	17593-73-6	0.2%	3.4E-06%
HVG-1	FTSI	Water Gelling Agent	Guar Gum	9000-30-0	55%	0.1170189%
			Petroleum Distillate	64742-47-8	55%	0.1170189%
			Raffinates (Petroleum), Sorption Process	64741-85-1	50%	0.1063808%
			Clay	14808-60-7	2%	0.0042552%
			Clay	1302-78-9	5%	0.0106381%
			Surfactant	24938-91-8	1%	0.0021276%
			Surfactant	154518-36-2	1%	0.0021276%
			Surfactant	9043-30-5	1%	0.0021276%
KCLS-4	FTSI	Clay Control	Surfactant	Proprietary	2%	0.0042552%
			Water	7732-18-5	30%	0.0270979%
NE-100W	FTSI	Non-emulsifier	Choline Chloride	67-48-1	75%	0.0677448%
			Methanol	67-56-1	15%	0.0124045%
			2-Butoxyethanol	111-76-2	10%	0.0082697%
			z-Propanol	67-63-0	10%	0.0082697%
			Dodecylbenzenesulfonic acid	27176-87-0	15%	0.0041348%
			Water	7732-18-5	80%	0.0661573%
			Sulfuric Acid	7664-93-9	0.01%	1.16E-05%
			Sulfur Dioxide	7446-09-5	0%	1.2E-06%
			Benzene, C10-16 Alkyl Derivatives	68648-87-3	0.04%	3.47E-05%
Superset W	FTSI	Resin Coated Proppant Activator	Unsulphonated Matter	Proprietary	0.03%	2.32E-05%
			Methanol	67-56-1	50%	0.0096304%
			Poly(oxyethylene)nonylphenol ether	9016-45-9	50%	0.0096304%
FRW-200	FTSI	Friction reducer	Petroleum distillate hydrotreated light	64742-47-8	26%	0.0069944%
			Acrylamide PIW acrylic acid, ammonium salt	26100-47-0	25%	0.0067254%
			Water	7732-18-5	48%	0.0129127%
			Sorbitan Monooleate	1338-43-8	3%	0.000807%
			Alcohols (C12-C14), ethoxylated	68439-50-9	4%	0.0010761%
			Alcohols (C12-C16), ethoxylated	68551-12-2	4%	0.0010761%
			Alcohols (C10-C16), ethoxylated	68002-97-1	4%	0.0010761%
			Acrylamide	79-06-1	0.1%	2.69E-05%
			Deoaxed heavy paraffinic	64742-65-0	15%	0.0004035%
			Ammonium Acrylate	10604-69-0	0.5%	0.0001345%
			Ammonium Chloride	12125-02-9	12%	0.0032282%
			Polyethylene glycol monooleate	9004-96-0	3%	0.000807%
			Alkylloxypolyethyleneoxyethanol	84133-50-6	1%	0.000269%
			Sorbitol Tetraoleate	61723-83-9	2%	0.000538%
			Copolymer of acrylamide and sodium acrylate	25987-30-8	33%	0.0088775%
			Surfactant	Proprietary	7%	0.0018831%
			Hydrotreated heavy paraffinic	64742-54-7	5%	0.0013451%
			Isopropanol	67-63-0	0.3%	8.07E-05%
ICI-3240	FTSI	Biocide	Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione	533-74-4	24%	0.0057829%
			Sodium Hydroxide	1310-73-2	23%	0.005542%
			Water	7732-18-5	55%	0.0132525%
HTB-1	FTSI	Breaker	Ammonium Persulfate	7727-54-0	60%	0.0029773%
			Cured acrylic resin	Proprietary	25%	0.0012405%
			Silica, Crystalline-Quartz	14808-60-7	16%	0.0007839%

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Signature: Signed Electronically Printed Name: Sara Cook Title: Regulatory Associate

Date: 4/27/2015

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

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