

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-D15-42082

2. Well Name: ARK 36 STATE #001H

3. Well Number: 001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit/M Lot/M Section:36 Township:22S Range:31E
Feet from:200 N/S Line:S
Feet from:795 E/W Line:W

5. Bottom Hole Location:
Unit/M Lot/M Section:36 Township:22S Range:31E
Feet from:200 N/S Line:S
Feet from:795 E/W Line:W

6. latitude: 32.3411484286002 longitude: -103.7375075598366

7. County: Eddy

8. Operator Name and Address:
DEVON ENERGY PRODUCTION COMPANY, LP
333 W. Sheridan Avenue
Oklahoma City 73102

9. OGRID: 6137 10. Phone Number: 405-228-8558

11. Last Fracture Date: 6/12/2014 Frac Performed by: Baker Hughes

12. Production Type: O

13. Pool Code(s): 39350

14. Gross Fractured Interval: Confidential

15. True Vertical Depth (TVD): 10,423 ft

16. Total Volume of Fluid Pumped: 5,255,922 galls

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		85.14851%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.14566%
Superset-W, 55 gal drum	Baker Hughes	Activator	Methanol	67-56-1	50%	0.00647%
			Poly (Oxyethylene) tonyphenol Ether	9016-45-9	50%	0.00647%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00666%
GBW-5	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00767%
Enzyme G-I	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in the non-MSDS section of the report	NA	0%	0%
High Perm CRB GBW-33D	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00256%
	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret	100%	0.00013%
BF-9L, 55 gal drum	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.02176%
			Potassium Hydroxide	1310-58-3	30%	0.01088%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.06412%
			Water	7732-18-5	30%	0.02665%
Clay Master-5C	Baker Hughes	Clay Control	Oxyalkylated Amine Quat	Trade Secret	60%	0.00029%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00046%
			Methanol	67-56-1	60%	0.00093%
			Olefin	Trade Secret	5%	8E-05%
			Polyoxyalkylenes	Trade Secret	30%	0.00048%
			Propargyl Alcohol	107-19-7	10%	0.00015%
			Thiourea Polymer	68527-49-1	30%	0.00046%
XLW-4	Baker Hughes	Crosslinker	Sodium Tetraborate	1303-96-4	30%	0.00994%
XLW-30G, tote	Baker Hughes	Crosslinker	2-methyl-4-isothiazolin-3-one	Trade Secret	0%	0%
			5-Chloro-2-methyl-3(2H)-isothiazolone	Trade Secret	0%	0%
			Acrylamide-acrylic acid copolymer, sulfomethylated,	Trade Secret	1%	0.00034%
			Cellulose	Trade Secret	2%	0.00068%
			Clay	Trade Secret	3%	0.00102%
			Crystalline Silica Quartz	14808-60-7	1%	0.00034%
			Magnesium chloride	Trade Secret	0%	0%
			Magnesium nitrate	Trade Secret	0%	0%
			Potassium formate	Trade Secret	30%	0.01019%
			Sodium bisulfate	Trade Secret	1%	0.00034%
			Sodium chloride	Trade Secret	1%	0.00034%
			Sodium formaldehyde bisulfate	Trade Secret	1%	0.00034%
			Sodium glycolate	Trade Secret	1%	0.00034%
			Ulexite Mineral	Trade Secret	40%	0.01357%
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Water	Trade Secret	60%	0.02035%
			1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino], polymer with 2-propanamide, sodium	Trade Secret	60%	0.03834%
			Hydrotreated Light Distillate	64742-47-8	30%	0.01917%
			Oxyalkylated alcohol	Trade Secret	5%	0.0032%
			Sodium Chloride	7647-14-5	5%	0.0002%
GW-4	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	100%	0.07139%
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	Trade Secret	60%	0.00054%
			Hydrotreated Light Distillate	64742-47-8	30%	0.00027%
Ferrotrol 280L	Baker Hughes	Iron Control	Oxyalkylated Alkylphenol	Trade Secret	5%	4E-05%
			2-Mercaptoethanol	60-24-2	100%	0.00282%
			Ammonium Hydroxide	1336-21-6	5%	0.00014%
			Cupric Chloride	7447-39-4	0%	0.00014%
NE-35, 330 gal tote	Baker Hughes	Non-emulsifier	Propylene Glycol	57-55-6	15%	0.00713%
			Water	Trade Secret	80%	0.03805%
Parasorb 5000, bag	Baker Hughes	Paraffin inhibitor	Acetic acid ethenyl ester, polymer with ethene	Trade Secret	15%	0.00187%
			Crystalline Silica (Cristoballite)	14484-46-1	1%	0.00012%
			Crystalline Silica (Quartz)	14808-60-7	1%	0.00012%
			Diatomaceous Earth, Calcined (kieselguhr)	91053-39-3	70%	0.0087%
			Diatomaceous Earth, Natural (kieselguhr)	61790-53-2	10%	0.00124%
			Mineral Oil	14808-60-7	15%	0.00187%
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	2.85736%
Super LC, 20/40	Baker Hughes	Proppant	Hyrcemethylenetetramine	109-97-0	0.01%	0.00029%
			Pi/C Resin	9003-35-4	5%	0.14502%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.81344%
Arizona sand 40/70 Flo-Back Prime (tote)	Baker Hughes	Proppant	Crystalline Silica: Quartz	14808-60-7	100%	7.3701%
	Baker Hughes	Surfactant	Isopropanol	67-43-0	20%	0.01951%
Ingredients shown above are subject to 29 CFR 1910			85% Phosphoric Acid, FG	10361-65-6	0%	0%
			Benzenesulfonic acid, hexadecyl(sulfophenoxy)-, disodium salt	Trade Secret	0%	0.00095%
			Boric Acid	10043-35-3	0%	0%
			Calcium Carbonate	471-34-1	0%	1E-05%
			Calcium Chloride	10043-52-4	0%	0.0002%
			Citrus Terpenes	94286-47-4	0%	0.01951%
			Cocamidopropyl Betaine	Trade Secret	0%	0.00975%
			Corn Meal	NA	0%	0.0001%
			Cupric Sulfate 5 H2O, ACS	7759-99-8	0%	0%
			D-Biotin USP	119616-38-5	0%	0%
			Fatty Acid Esters	67701-32-0	0%	2E-05%
			Fatty Acid Oxyalkylate	70142-34-6	0%	0%
			Ferric Chloride, Hexahydrate	7705-08-0	0%	0%
			Formaldehyde	50-00-0	0%	0%
			Glycerol	56-81-5	0%	0.0009%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	0.0004%
			Hydrated Magnesium Silicate	Trade Secret	0%	3E-05%
			Linseed Meal	8001-26-1	0%	1E-05%
			Magnesium Sulfate	7487-88-9	0%	0%
			Mannan Endo-1,4-B-Mannosidase	37288-54-3	0%	0%
			Methanol	67-56-1	0%	0.00555%
			Nonionic glycol ester	Trade Secret	0%	1.18902%
			Poly (Tetrafluoroethylene)	Trade Secret	0%	0.00128%
			Polyethylene Glycol	25322-68-3	0%	0%
			Polyoxyethylene sorbitan monooleate	9005-65-6	0%	0.31952%
			Potassium Sulfate	7779-80-5	0%	0%
			Propylene glycol	Trade Secret	0%	0.97549%
			Sodium Chloride	7647-14-5	0%	1.46548%
			Sodium Molybdate	7631-95-0	0%	0%
			Sodium laurimniodipropionate	Trade Secret	0%	0.04756%
			Sodium octylimodipropionate	Trade Secret	0%	0.14268%
			Sorbitan, mono-(82)-9-octadecenoate	1338-43-8	0%	0.31952%
			Soy isoflavone	486-66-8	0%	0%
			Surfactant	Trade Secret	0%	2.92645%
			Thiamine-HCl	67-03-8	0%	0%
			Triethylene glycol	112-27-8	0%	0.97549%
			Vinylidene Chloride-Methyl Acrylate Polymer	Trade Secret	0%	0.06412%
			Water	7732-18-5	0%	97.26815%
			Xylene	1330-20-7	0%	0.00054%
			Yeast Extract	8013-01-2	0%	0%
			Zinc Sulfate	7446-19-7	0%	0%
			Heptahydrate	2673-22-5	0%	0.00045%
			diester of sulfosuccinic acid sodium salt		0%	0.00045%

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

Regulatory Compliance Associate

Date: 11/24/2014

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

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