

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:
30-025-41595

2. Well Name:
IRONHOUSE 24 STATE COM #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:O Lot:O Section:24 Township:18S Range:34E
Feet from:200 N/S Line:S
Feet from:1980 E/W Line:E

5. Bottom Hole Location:
Unit:O Lot:O Section:24 Township:18S Range:34E
Feet from:200 N/S Line:S
Feet from:1980 E/W Line:E

6. latitude:
32.7266408938473 longitude:
-103.511852820899

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: 5/1/2014 Frac Performed by: BHI

12. Production Type:
O

13. Pool Code(s):
97930

14. Gross Fractured Interval:
O
9,956 ft to 14,116 ft

15. True Vertical Depth (TVD):
9,856 ft

16. Total Volume of Fluid Pumped:
2,588,137 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		85.78396%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.25364%
			Water	7732-18-5	85%	1.43731%
Superset-W, 330 gl tote	Baker Hughes	Activator	Methanol	67-56-1		0.00498%
			Poly (Oxyethylene)	9016-45-9	50%	0.00498%
			Nonylphenol Ether			
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.0185%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.01451%
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	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00437%
GBW-33D	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret	100%	0.00025%
Clay Master-5C (Tote)	Baker Hughes	Clay Control	Oxyalkylated Amine Quat	Trade Secret	60%	0.00047%
ClayCare, ClayTreat-2C, 330 gl tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.05398%
			Water	7732-18-5	30%	0.02559%
Cl-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00052%
			Methanol	67-56-1	60%	0.00104%
			Olefin	Trade Secret	5%	9E-05%
			Polyoxyalkylenes	Trade Secret	30%	0.00052%
			Propargyl Alcohol	107-19-7	10%	0.00017%
			Thiourea Polymer	68527-49-1	30%	0.00052%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.02918%
			Sodium Hydroxide	1310-73-2	10%	0.00973%
			Sodium Tetraborate Decahydrate	1303-96-4	30%	0.02918%
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Oxyalkylated Alcohol	Trade Secret	5%	0.00405%
			Petroleum Distillates	64742-47-8	30%	0.02428%
			Polycrylate	Trade Secret	60%	0.04856%
			Sodium Chloride	7647-14-5	3%	0.00243%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.10842%
			Petroleum Distillate Blend (1)	64742-47-8	70%	0.12649%
			Petroleum Distillate Blend (3)	8042-47-5	70%	0.12649%
			Petroleum Distillate Blend (2)	64742-55-8	70%	0.12649%
GW-4	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	100%	0.06899%
AG-12, 330 gl tote	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	60%	0.00088%
			Distillates, Petroleum, Hydrotreated middle	64742-47-8	30%	0.00044%
Ferrotrol 280L , 330 gl tote	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00449%
			Ammonium Hydroxide	1336-21-6	5%	0.00022%
			Cupric Chloride	7447-39-4	5%	0.00022%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.02538%
			Propylene Glycol	57-55-6	30%	0.01523%
Sand, White, 30/50	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	6.60882%
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	1.35318%
Super LC, 20/40	Baker Hughes	Proppant	Hexamethylenetetramine	100-97-0	0.01%	0.00033%
			P/F Resin	9003-35-4	5%	0.16345%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	3.17088%
Flo-Back Prime (tote)	Baker Hughes	Surfactant	Essential Oils	Trade Secret		0.0519%
			Isopropanol	67-63-0	30%	0.02595%
Ingredients shown above are subject to 29 CFR 1910			85% Phosphoric Acid, FG	10361-65-6	0%	0%
			Boric Acid	10043-35-3	0%	0%
			Calcium Carbonate	471-34-1	0%	1.78E-05%
			Calcium Chloride	10043-52-4	0%	1E-07%
			Citrus Terpenes	94266-47-4	0%	0.0518971%
			Corn Meal	N.A.	0%	0.0002112%
			Cupric Sulfate 5 H2O, ACS	7758-99-8	0%	0%
			Cured Resin	Trade Secret	0%	0.0010495%
			D-Biotin, USP	119616-38-5	0%	0%
			Diester of Sulfosuccinic Acid Sodium Salt	2673-22-5	0%	1.47E-05%
			Fatty Acid Esters	67701-32-0	0%	2.94E-05%
			Fatty Acid Oxyalkylate	70142-34-6	0%	1.47E-05%
			Ferric Chloride, Hexahydrate	7705-08-0	0%	0%
			Formaldehyde	50-00-0	0%	9E-07%
			Glutaraldehyde	111-30-8	0%	0.0073986%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	0.0005817%
			Linseed Meal	8001-26-1	0%	2.54E-05%
			Magnesium Sulfate	7487-88-9	0%	0%
			Mannan Endo-1,4-B-Mannosidase	37288-54-3	0%	3E-07%
			Methanol	67-56-1	0%	6.17E-05%
			Oleate Ester	1338-43-8	0%	0.0024281%
			Organic Polyol	112-27-6	0%	0.0086495%
			Oxyalkylated alkylphenol	9016-45-9	0%	2.94E-05%
			Polyethylene Glycol	25322-68-3	0%	0%
			Polysorbate	9005-65-6	0%	0.0024281%
			Potassium Sulfate	7778-80-5	0%	0%
			Sodium Chloride	7647-14-5	0%	0.0130086%
			Sodium Molybdate	7631-95-0	0%	0%
			Soy Isoflavone	486-66-8	0%	0%
			Surfactants	Trade Secret	0%	0.0605467%
			Thiamine-HCl	67-03-8	0%	0%
			Water	7732-18-5	0%	0.1105154%
			Xylene	1330-20-7	0%	1.47E-05%
			Yeast Extract	8013-01-2	0%	0%
			Zinc Sulfate	7446-19-7	0%	0%
			Heptahydrate			

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: Breanne Knight

Production Title: Technologist

Date: 5/18/2014

E-mail Address: Breanne.Knight@dm.com

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