

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 February 15, 2012

1. WELL API NO.
30-015-37065

2. Well Name:
BLACK JACK 1 FEDERAL #004H

3. Well Number:
004H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:N Lot:N Section:1 Township:24S Range:30E
Feet from:330 N/S Line:S
Feet from:2230 E/W Line:W

5. Bottom Hole Location:
Unit:N Lot:N Section:1 Township:24S Range:30E
Feet from:330 N/S Line:S
Feet from:2230 E/W Line:W

6. latitude:32.2405799853399 longitude:-103.835714231733

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:
405-228-8588

11. Last Fracture Date: 6/5/2012 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
53818

14. Gross Fractured Interval:
8,282 ft to 12,282 ft

15. True Vertical Depth (TVD):
7,948 ft

16. Total Volume of Fluid Pumped:
36,267 bbls

17. 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%	83.32224%
HCl, 5.1 - 7.5%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	7.5%	0.04281%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	7732-18-5	92.5%	0.52801%
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.00239%
High Perm CRB	Baker Hughes	Breaker	Water	7732-18-5	97%	0.0772%
			Ammonium Persulphate	7727-54-0	60%	0.00374%
			Crystalline Silica Quartz	14808-60-7	30%	0.00187%
GBW-33D	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret	100%	0.00118%
BC-3	Baker Hughes	Breaker Catalyst	No Hazardous Ingredients	Trade Secret	100%	0.00508%
BF-9L, 55 gal drum	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.05606%
			Potassium Hydroxide	1310-58-3	30%	0.02803%
ClayCare, tote	Baker Hughes	Clay	Choline Chloride	67-48-1	75%	0.06051%
		Control	Water	7732-18-5	30%	0.02421%
Clay Master-5C	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60%	0.00023%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00026%
			Methanol	67-56-1	60%	0.00053%
			Olefin	Trade Secret	5%	4E-05%
			Polyoxyalkylenes	Trade Secret	30%	0.00026%
			Propargyl Alcohol	107-19-7	10%	9E-05%
XLW-4	Baker Hughes	Crosslinker	Sodium Borate Decahydrate	1303-96-4	30%	0.01181%
XLW-30G, drum	Baker Hughes	Crosslinker	Borate Suspension	Trade Secret	99.8%	0.05324%
			Crystalline Silica Quartz	14808-60-7	0.2%	0.00011%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.35859%
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.35859%
			Petroleum Distillate	64742-47-8	60%	0.35859%
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	50%	0.0003%
			Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	0.00012%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00181%
			Ammonium Hydroxide	1336-21-6	5%	9E-05%
			Cupric Chloride	7447-39-4	5%	9E-05%
NE-945, tote	Baker Hughes	Non-emulsifier	Oxyalkylated alcohol	Trade Secret	5%	0.00352%
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	10.9789%
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.6995%
Super LC, 20/40	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00027%
			P/F Resin	9003-35-4	5%	0.13703%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.65844%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.0012%
			Ethylene Glycol	107-21-1	30%	0.00723%
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.01224%
			Mixture of Surfactants	Trade Secret	50%	0.0204%
			Water	7732-18-5	30%	0.01224%
Ingredients shown above are subject to 29 CFR 1910			85% Phosphoric Acid, FG	10361-65-6	0%	1E-07%
			Acetyl Triethyl Citrate	77-89-4	0%	0.0050839%
			Alkoxyated Amine	Trade Secret	0%	0.0070358%
			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0080208%
			Antifoam	Trade Secret	0%	1.41E-05%
			Boric Acid	10043-35-3	0%	1E-07%
			Calcium Carbonate	471-34-1	0%	8.27E-05%
			Calcium Chloride	10043-52-4	0%	2E-07%
			Corn Meal	N.A.	0%	0.0009802%
			Cupric Sulfate 5 H2O, ACS	7758-99-8	0%	1E-07%
			Cured Acrylic Resin	Trade Secret	0%	0.0018698%
			D-Biotin ,USP	119616-38-5	0%	1E-07%
			Fatty Acid Esters	67701-32-0	0%	1.12E-05%
			Fatty Acid Oxyalkylate	70142-34-6	0%	1.2E-06%
			Ferric Chloride, Hexahydrate	7705-08-0	0%	1E-07%
			Formaldehyde	50-00-0	0%	4.4E-06%
			Glycerin	56-81-5	0%	0%
			Linseed Meal	8001-26-1	0%	0.0001181%
			Magnesium Sulfate	7487-88-9	0%	1E-07%
			Mannan Endo-1,4-B-Mannosidase	37288-54-3	0%	1.3E-06%
			Methanol	67-56-1	0%	6.22E-05%
			Modified Thiourea Polymer	68527-49-1	0%	9.65E-05%
			Organic Sulfonic Acid	27176-87-0	0%	0.0001407%
			Oxyalkylated Alkylphenol	9016-45-9	0%	1.06E-05%
			Polyacrylate	Trade Secret	0%	0.004817%
			Polyethylene Glycol	25322-68-3	0%	1E-07%
			Polyglycol	25322-68-3	0%	0.0013368%
			Polyquaternary Amine	Trade Secret	0%	0.0008443%
			Potassium Chloride	7447-40-7	0%	1.2E-05%
			Potassium Sulfate	7778-80-5	0%	1E-07%
			Sodium Chloride	7647-14-5	0%	4.7E-05%
			Sodium Molybdate	7631-95-0	0%	1E-07%
			Soy Isoflavone	486-66-8	0%	1E-07%
			Thiamine-HCl	67-03-8	0%	1E-07%
			Water	7732-18-5	0%	0.1328478%
			Xylene	1330-20-7	0%	3.5E-06%
			Yeast Extract	8013-01-2	0%	1E-07%
			Zinc Sulfate Heptahydrate	7446-19-7	0%	1E-07%
			diester of sulfosuccinic acid sodium salt	2673-22-5	0%	3E-06%

18. 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: Derek Berg

Title: Engineering Technician

Date: 11/6/2012

E-mail Address: derek.berg@dm.com

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.