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. 30-015-41514
2. Well Name: RIGEL 20 FEDERAL COM #005H
3. Well Number: 005H
4. Surface Hole Location: Unit A Lot A Section 19 Township 19S Range 31E; Feet from 480 N/S Line N; Feet from 190 E/W Line E
5. Bottom Hole Location: Unit A Lot A Section 19 Township 19S Range 31E; Feet from 480 N/S Line N; Feet from 190 E/W Line E
6. latitude: 32.6518356389931 longitude: -103.900705564012
7. County: Eddy

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original
☐ Amendment

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: 5/10/2014 Frac Performed by: BHI
12. Production Type: O
13. Pool Code(s): 97056
14. Gross Fractured Interval: 8,235 ft to 12,767 ft
15. True Vertical Depth (TVD): 8,022 ft
16. Total Volume of Fluid Pumped: 1,973,832 gals
17. Total Volume of Re-Use Water Pumped: 768
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%	88.83847%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.23444%
			Water	7732-18-5	85%	1.33073%
Superset-W, 55 gal drum	Baker Hughes	Activator	Methanol	67-56-1	50%	0.0086%
			Poly (Oxyethylene) Nonylphenol Ether	9016-45-9	50%	0.0086%
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.1195%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.0135%
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%	0.00486%
GBW-33D	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret	100%	0.00027%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.0899%
			Water	7732-18-5	30%	0.03232%
Clay Master-5C	Baker Hughes	Clay Control	Oxyalkylated Amine Quat	Trade Secret	60%	0.00048%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00072%
			Methanol	67-56-1	60%	0.00144%
			Olefin	Trade Secret	5%	0.00012%
			Polyoxylkylenes	Trade Secret	30%	0.00072%
			Propargyl alcohol	107-19-7	10%	0.00024%
			Thiourea Polymer	68527-49-1	30%	0.00072%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.02892%
			Sodium Hydroxide	1310-73-2	10%	0.00964%
			Sodium Tetraborate Decahydrate	1303-96-4	30%	0.02892%
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Oxyalkylated Alcohol	Trade Secret	5%	0.00514%
			Petroleum Distillates	64742-47-8	30%	0.03085%
			Polyacrylate	Trade Secret	60%	0.06169%
			Sodium Chloride	7647-14-5	3%	0.00308%
CIR-4	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	100%	0.10378%
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	50%	0.0009%
			Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	0.00038%
Ferrotrol 290L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00446%
			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%	0.02431%
			Propylene Glycol	57-55-6	30%	0.01459%
Parasorb 5000, bag	Baker Hughes	Paraffin Inhibitor	Calcined Diatomaceous Earth	91053-39-3	60%	0.01019%
			Silica, Crystalline-Quartz	14808-60-7	1%	0.00027%
			White Mineral Oil	8042-47-5	30%	0.0081%
Sand, White, 40/70	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	4.73039%
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	1.22912%
Super LC, 20/40	Baker Hughes	Proppant	Hexamethylenetetramine	100-97-0	0.01%	0.00027%
			PIF Resin	9003-35-4	5%	0.135%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.61961%
			Essential Oils	Trade Secret	60%	0.00532%
Flo-Back Prime (tote)	Baker Hughes	Surfactant	Isopropanol	67-63-0	30%	0.02765%
Ingredients shown above are subject to 29 CFR 1910			85% Phosphoric Acid, Acid	1091-65-6	0%	0%
			Water		0%	0%
			Boric Acid	10043-35-3	0%	0%
			Calcium Carbonate	471-34-1	0%	1.89E-05%
			Calcium Chloride	10043-52-4	0%	1E-07%
			Citrus Terpenes	94266-47-4	0%	0.00531167%
			Corn Meal	N/A	0%	0.0002242%
			Cupric Sulfate 5 H2O, Acid	7758-99-8	0%	0%
			Cured Resin	Trade Secret	0%	0.001556%
			D-Biotin USP	119516-38-5	0%	0%
			Fatty Acid Esters	67701-32-0	0%	3.42E-05%
			Fatty Acid Oxyalkylate	79142-34-5	0%	3.6E-06%
			Ferric Chloride, Hexahydrate	7705-08-0	0%	0%
			Formaldehyde	50-00-0	0%	1.2E-06%
			Glutaraldehyde	111-30-8	0%	0.00793396%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	0.0005941%
			Linseed Meal	8001-26-1	0%	2.7E-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%	6.53E-05%
			Oleate Ester	1338-43-8	0%	0.00308445%
			Organic Pabol	112-27-6	0%	0.00927168%
			Oxyalkylated Alkylphenol	9016-45-9	0%	3.24E-05%
			Polyethylene Glycol	25322-68-3	0%	0%
			Polysorbate	9005-65-6	0%	0.00308445%
			Potassium Sulfate	7778-80-5	0%	0%
			Sodium Chloride	7647-14-5	0%	0.0138851%
			Sodium Molybdate	7631-95-0	0%	0%
			Sou Isoflavone	485-66-8	0%	0%
			Surfactants	Trade Secret	0%	0.0545355%
			Thiamine-HCl	67-03-8	0%	0%
			Vinyl Acetate Ethylene Copolymer	24937-78-8	0%	0.0053361%
			Water	7732-18-5	0%	0.12294837%
			Xylene	1330-20-7	0%	1.08E-05%
			Yeast Extract	8013-01-2	0%	0%
			Zinc Sulfate Heptahydrate	7446-19-7	0%	0%
			diester of sulfosuccinic acid sodium salt	2673-22-5	0%	9E-06%

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: Breanna Knight Title: Production Technologist

Date: 6/18/2014

E-mail Address: Breanna.Knight@dvn.com

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