

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				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		1. WELL API NO: 30-015-39394				
		2. Well Name: RIGEL 20 FEDERAL COM #002H				
		3. Well Number: 002H				
		4. Surface Hole Location: Unit:E Lot:E Section:20 Township:19S Range:31E Feet from:1850 N/S Line:N Feet from:330 E/W Line:W				
		5. Bottom Hole Location: Unit:E Lot:E Section:20 Township:19S Range:31E Feet from:1850 N/S Line:N Feet from:330 E/W Line:W				
		6. Latitude: 32.648073949528 Longitude: -103.898994781734				
		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: 3/20/2012 Frac Performed by: Baker Hughes		12. Production Type: O				
13. Pool Code(s): 97020		14. Gross Fractured Interval: 9,100 ft to 13,045 ft				
15. True Vertical Depth (TVD): 8,899 ft		16. Total Volume of Fluid Pumped: 26,053 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%	83.82202%
HCl, 5.1 - 7.5%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	7.5%	0.04996%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	7732-18-5	92.5%	0.61619%
				111-30-8	30%	0.00655%
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.00187%
			Water	7732-18-5	97%	0.06056%
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	60%	0.00248%
			Crystalline Silica Quartz	14808-60-7	30%	0.00124%
GBW-18	Baker Hughes	Breaker	Sodium Persulfate	7775-27-1	100%	0.00051%
GBW-33D	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret	100%	0.00029%
BF-9L, 55 gal drum	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.06047%
			Potassium Hydroxide	1310-58-3	30%	0.03024%
ClayCare, tote	Baker Hughes	Clay	Choline Chloride	67-48-1	75%	0.06607%
		Control	Water	7732-18-5	30%	0.02643%
Clay Master-5C	Baker Hughes	Clay Control	Oxyalkylated Amine Quat	138879-94-4	60%	0.00022%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00031%
			Methanol	67-56-1	60%	0.00061%
			Olefin	Trade Secret	5%	5E-05%
			Polyoxyalkylenes	Trade Secret	30%	0.00031%
			Propargyl Alcohol	107-19-7	10%	0.0001%
XLW-4	Baker Hughes	Crosslinker	Sodium Borate Decahydrate	1303-96-4	30%	0.00945%
XLW-30G, tote	Baker Hughes	Crosslinker	Borate Suspension	Trade Secret	99.8%	0.05872%
			Crystalline Silica Quartz	14808-60-7	0.2%	0.00012%
FRW-14 (Small Tote)	Baker Hughes	Friction Reducer	No Hazardous Ingredients	N.A.	100%	0.00595%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	40%	0.23255%
			Petroleum Distillates Blend	Trade Secret	70%	0.40695%
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	60%	0.0005%
			Distillates, Petroleum, Hydrotreated Middle	64742-47-8	30%	0.00025%
			Nonylphenol Ethoxylate	64742-46-7	5%	4E-05%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00194%
			Ammonium Hydroxide	1336-21-6	5%	0.0001%
			Cupric Chloride	7447-39-4	5%	0.0001%
NE-945, tote	Baker Hughes	Non-emulsifier	Oxyalkylated alcohol	Trade Secret	5%	0.00405%
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	10.65112%
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.43255%
Super LC, 20/40	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.0003%
			P/F Resin	9003-35-4	5%	0.15011%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.91206%
ES-4A, Greenskeeper Solvent	Baker Hughes	Solvent	Petroleum Distillates Blend	Trade Secret	100%	0.00674%
Flo-Back Prime (tote)	Baker Hughes	Surfactant	Essential Oils	Trade Secret	60%	0.00019%
			Isopropanol	67-63-0	30%	0.0001%
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.01278%
			Mixture of Surfactants	Trade Secret	50%	0.0213%
			Water	7732-18-5	30%	0.01278%
Ingredients shown above are subject to 29 CFR 1910			85% Phosphoric Acid, FG	10361-65-6	0%	0%
			Alcohols, C12-14, Ethoxylated Propoxylated	68439-51-0	0%	0.0290682%
			Aliphatic Hydrocarbon	Trade Secret	0%	0.0013872%
			Alkoxylated Amine	Trade Secret	0%	0.0081027%
			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0092371%
			Antifoam	Trade Secret	0%	1.62E-05%
			Boric Acid	10043-35-3	0%	0%
			Calcium Carbonate	471-34-1	0%	2.06E-05%
			Calcium Chloride	10043-52-4	0%	1E-07%
			Citrus Terpenes	94266-47-4	0%	0.0001907%
			Corn Meal	N.A.	0%	0.000244%
			Crystalline Silica, Quartz	14808-60-7	0%	0.0290682%
			Cupric Sulfate 5 H2O, ACS	7758-99-8	0%	0%
			Cured Acrylic Resin	Trade Secret	0%	0.0012403%
			D-Biotin, USP	119616-38-5	0%	0%
			Ferric Chloride, Hexahydrate	7705-08-0	0%	0%
			Formaldehyde	50-00-0	0%	5.1E-06%
			Glycerin	56-81-5	0%	0%
			Isotridecanol, Ethoxylated (TDA-6)	9043-30-5	0%	0.0290682%
			Isotridecanol, Ethoxylated (TDA-9)	9043-30-5	0%	0.0290682%
			Linseed Meal	8001-26-1	0%	2.94E-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%	5.46E-05%
			Modified Thiourea Polymer	68527-49-1	0%	0.0001126%
			Organic Polyol	112-27-6	0%	3.18E-05%
			Organic Sulfonic Acid	27176-87-0	0%	0.0001621%
			Oxyalkylated Alcohol	Trade Secret	0%	0.0001072%
			Polyethylene Glycol	25322-68-3	0%	0%
			Polyglycol	25322-68-3	0%	0.0015395%
			Polyglycol Ester	Trade Secret	0%	4.76E-05%
			Polyol Ester	Trade Secret	0%	6.55E-05%
			Polyquaternary Amine	Trade Secret	0%	0.0009723%
			Potassium Sulfate	7778-80-5	0%	0%
			Quaternary Ammonium Compounds bis [l-Hydrogenated Tallow Alkyl] Dimethyl Salts With Bentonite	68953-58-2	0%	0.0290682%
			Sodium Chloride	7647-14-5	0%	0.0002998%
			Sodium Molybdate	7631-95-0	0%	0%
			Soy Isoflavone	486-66-8	0%	0%
			Surfactants	Trade Secret	0%	0.0002225%
			Thiamine-HCl	67-03-8	0%	0%
			Vinyl Copolymer	Trade Secret	0%	0.0016432%
			Water	7732-18-5	0%	0.1617307%
			Yeast Extract	8013-01-2	0%	0%
			Zinc Sulfate	7446-19-7	0%	0%
			Heptahydrate			
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.