

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. 30-015-39725							
		2. Well Name: RIGEL 20 FEDERAL COM #003H							
		3. Well Number: 003H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:L Lot:L Section:20 Township:19S Range:31E Feet from:1800 N/S Line:S Feet from:330 E/W Line:W							
		5. Bottom Hole Location: Unit:L Lot:L Section:20 Township:19S Range:31E Feet from:1800 N/S Line:S Feet from:330 E/W Line:W							
		6. Latitude: 32.6435774031567 longitude: -103.898979009254							
		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: 4/24/2012 Frac Performed by: Baker Hughes		12. Production Type: O							
13. Pool Code(s): 29345		14. Gross Fractured Interval: 9,050 ft to 13,234 ft							
15. True Vertical Depth (TVD): 8,889 ft		16. Total Volume of Fluid Pumped: 32,095 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%	83.04461%			
HCl, 5.1 - 7.5%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	7.5%	0.07232%			
			Water	7732-18-5	92.5%	0.89199%			
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.01114%			
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.00216%			
			Water	7732-18-5	97%	0.06974%			
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	60%	0.00399%			
			Crystalline Silica Quartz	14808-60-7	30%	0.00199%			
GBW-18	Baker Hughes	Breaker	Sodium Persulfate	7775-27-1	100%	0.00088%			
GBW-33D	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret	100%	0.00037%			
BC-3	Baker Hughes	Breaker Catalyst	No Hazardous Ingredients	Trade Secret	100%	0.00559%			
BF-9L, 300 gal tote	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.06531%			
			Potassium Hydroxide	1310-58-3	30%	0.03266%			
BF-9L, 55 gal drum	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.05564%			
			Potassium Hydroxide	1310-58-3	30%	0.02782%			
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.05772%			
			Water	7732-18-5	30%	0.02309%			
Clay Master-5C	Baker Hughes	Clay Control	Oxyakylated 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%	0.00063%			
			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%	0.01031%			
XLW-30G, tote	Baker Hughes	Crosslinker	Borate Suspension	Trade Secret	99.8%	0.05534%			
			Crystalline Silica Quartz	14808-60-7	0.2%	0.00011%			
FRW-14 (Small Tote)	Baker Hughes	Friction Reducer	No Hazardous Ingredients	N.A.	100%	0.00199%			
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	40%	0.17044%			
			Petroleum Distillates Blend	Trade Secret	70%	0.29827%			
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00197%			
			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%	0.00393%			
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	10.80078%			
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.41229%			
Super LC, 20/40	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00034%			
			P/F Resin	9003-35-4	5%	0.16971%			
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	3.29243%			
ES-4A, Greenskeeper Solvent	Baker Hughes	Solvent	Petroleum Distillates Blend	Trade Secret	100%	0.01627%			
Flo-Back 40, tote	Baker Hughes	Surfactant	Amphoteric Surfactant	Trade Secret	40%	0.00012%			
InFlo 250G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.01198%			
			Mixture of Surfactants	Trade Secret	50%	0.01996%			
			Water	7732-18-5	30%	0.01198%			
Ingredients shown above are subject to 29 CFR 1910			85% Phosphoric Acid, FG	10361-65-6	0%	0%			
			Acetyl Triethyl Citrate	77-89-4	0%	0.0055859%			
			Alcohols, C12-14, Ethoxylated Propoxylated	68439-51-0	0%	0.0213051%			
			Aliphatic Hydrocarbon	Trade Secret	0%	0.0004648%			
			Alkoxyated Amine	Trade Secret	0%	0.0078548%			
			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0089545%			
			Antifoam	Trade Secret	0%	1.57E-05%			
			Boric Acid	10043-35-3	0%	0%			
			Calcium Carbonate	471-34-1	0%	2.59E-05%			
			Calcium Chloride	10043-52-4	0%	1E-07%			
			Corn Meal	N.A.	0%	0.0003066%			
			Crystalline Silica, Quartz	14808-60-7	0%	0.0213051%			
			Cupric Sulfate 5 H2O, ACS	7758-99-8	0%	0%			
			Cured Acrylic Resin	Trade Secret	0%	0.001995%			
			D-Biotin ,USP	119616-38-5	0%	0%			
			Ferric Chloride, Hexahydrate	7705-08-0	0%	0%			
			Formaldehyde	50-00-0	0%	5.2E-06%			
			Glycerin	56-81-5	0%	0%			
			Isotridecanol, Ethoxylated (TDA-6)	9043-30-5	0%	0.0213051%			
			Isotridecanol, Ethoxylated (TDA-9)	9043-30-5	0%	0.0213051%			
			Linseed Meal	8001-26-1	0%	3.69E-05%			
			Magnesium Sulfate	7487-88-9	0%	0%			
			Mannan Endo-1,4-B-Mannosidase	37288-54-3	0%	4E-07%			
			Methanol	67-56-1	0%	9.29E-05%			
			Modified Thiourea Polymer	68527-49-1	0%	0.0001147%			
			Organic Sulfonic Acid	27176-87-0	0%	0.0001571%			
			Oxyalkylated Alcohol	Trade Secret	0%	3.59E-05%			
			Polyethylene Glycol	25322-68-3	0%	0%			
			Polyglycol	25322-68-3	0%	0.0014924%			
			Polyglycol Ester	Trade Secret	0%	1.6E-05%			
			Polyol Ester	Trade Secret	0%	2.19E-05%			
			Polyquaternary Amine	Trade Secret	0%	0.0009426%			
			Potassium Sulfate	7778-80-5	0%	0%			
			Quaternary Ammonium Compounds bis [Hydrogenated Tallow Alkyl] Dimethyl Salts With Bentonite	68953-58-2	0%	0.0213051%			
			Sodium Chloride	7647-14-5	0%	0.0001833%			
			Sodium Molybdate	7631-95-0	0%	0%			
			Soy Isoflavone	486-66-8	0%	0%			
			Thiamine-HCl	67-03-8	0%	0%			
			Vinyl Copolymer	Trade Secret	0%	0.0005506%			
			Water	7732-18-5	0%	0.2175558%			
			Yeast Extract	8013-01-2	0%	0%			
			Zinc Sulfate Heptahydrate	7446-19-7	0%	0%			
			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						

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