

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: 30-025-40611							
		2. Well Name: IRONHOUSE 20 STATE COM #001							
		3. Well Number: 001							
		4. Surface Hole Location: Unit:O Lot:O Section:20 Township:18S Range:35E Feet from:200 N/S Line:S Feet from:1980 E/W Line:E							
5. Bottom Hole Location: Unit:O Lot:O Section:20 Township:18S Range:35E Feet from:200 N/S Line:S Feet from:1980 E/W Line:E		6. latitude: longitude: 32.7265050313546 -							
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: 3/14/2013 Frac Performed by: BHI		12. Production Type: O							
13. Pool Code(s): 97930		14. Gross Fractured Interval: Confidential							
15. True Vertical Depth (TVD): 9,279 ft		16. Total Volume of Fluid Pumped: 1,674,540 gals							
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%	83.8173%			
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.20893%			
Superset-W, 330 gl tote	Baker Hughes	Activator	Water	7732-18-5	85%	1.18394%			
			Methanol	67-56-1	50%	0.01004%			
			Poly (Oxyethylene) Nonylphenol Ether	9016-45-9	50%	0.01004%			
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.01921%			
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.0015%			
Enzyme G HT-II	Baker Hughes	Breaker	Tryptone	73049-73-7	5%	0.00286%			
			Water	7732-18-5	100%	0.05721%			
			Yeast Extract	08013-01-2	5%	0.00286%			
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	60%	0.00324%			
BF-9L, 55 gal drum	Baker Hughes	Buffer	Crystalline Silica Quartz	14808-60-7	30%	0.00162%			
			Potassium Carbonate	584-08-7	60%	0.06229%			
			Potassium Hydroxide	1310-58-3	30%	0.03115%			
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.06389%			
			Water	7732-18-5	30%	0.02556%			
			Oxyakylated Amine Quat	138879-94-4	60%	0.00043%			
Cl-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00064%			
			Methanol	67-56-1	60%	0.00128%			
			Olefin	Trade Secret	5%	0.00011%			
			Polyoxyalkylenes	Trade Secret	30%	0.00064%			
			Propargyl Alcohol	107-19-7	10%	0.00021%			
			Thiourea Polymer	68527-49-1	30%	0.00064%			
			Sodium Tetraborate	1303-96-4	30%	0.01384%			
XLW-4	Baker Hughes	Crosslinker	Borate Suspension	Trade Secret	99.9%	0.0599%			
XLW-30G, tote	Baker Hughes	Crosslinker	Crystalline Silica Quartz	14808-60-7	1%	0.0006%			
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Aliphatic Hydrocarbon	Trade Secret	30%	0.00273%			
			Oxyalkylated Hydrocarbon	Trade Secret	5%	0.00046%			
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.28676%			
			Petroleum Distillate Blend (1)	64742-47-8	70%	0.33456%			
			Petroleum Distillate Blend (3)	8042-47-5	70%	0.33456%			
			Petroluem Distillate Blend (2)	64742-55-8	70%	0.33456%			
			Acrylic Polymers	26006-22-4	50%	0.00059%			
AG-12	Baker Hughes	Gelling Agent	Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	0.00025%			
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.0043%			
			Ammonium Hydroxide	1336-21-6	5%	0.00021%			
			Cupric Chloride	7447-39-4	5%	0.00021%			
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04198%			
			Propylene Glycol	57-55-6	30%	0.02519%			
Sand, White, 30/50	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	7.59787%			
Super LC, 20/40	Baker Hughes	Proppant	Hexamethylenetetramine	100-97-0	0.01%	0.00052%			
			P/F Resin	9003-35-4	5%	0.25819%			
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	5.00896%			
Flo-Back Prime (tote)	Baker Hughes	Surfactant	Essential Oils	Trade Secret	60%	0.02716%			
			Isopropanol	67-63-0	30%	0.01358%			
Ingredients shown above are subject to 29 CFR 1910			Anitfoam	Trade Secret	0%	1.14E-05%			
			Citrus Terpenes	94266-47-4	0%	0.0271624%			
			Cured Acrylic Resin	Trade Secret	0%	0.0016209%			
			Fatty Acid Esters	67701-32-0	0%	2.26E-05%			
			Fatty Acid Oxyalkylate	70142-34-6	0%	2.4E-06%			
			Formaldehyde	50-00-0	0%	1.1E-06%			
			Glutaraldehyde	111-30-8	0%	0.0076824%			
			Glycerol	56-81-5	0%	0.0008582%			
			Lactose	5989-81-1	0%	0.0005721%			
			Methanol	67-56-1	0%	6.4E-05%			
			Organic Polyol	112-27-6	0%	0.0045271%			
			Oxyalkylated Alkylphenol	9016-45-9	0%	2.14E-05%			
			Sodium Chloride	7647-14-5	0%	0.0068299%			
			Soy	8002-43-5	0%	2.29E-05%			
			Surfactants	Trade Secret	0%	0.0316895%			
			Water	7732-18-5	0%	0.0763145%			
			Xylene	1330-20-7	0%	7.1E-06%			
			diester of sulfosuccinic acid sodium salt	2673-22-5	0%	5.9E-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: 10/14/2013						
			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.