

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 8, 2013							
		1. WELL API NO: 30-025-41087							
		2. Well Name: JACKSON UNIT #017H							
		3. Well Number: 017H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: A Lot: A Section: 15 Township: 24S Range: 33E Feet from: 200 N/S Line: N Feet from: 970 E/W Line: E							
		5. Bottom Hole Location: Unit: P Lot: 16 Section: 15 Township: 24S Range: 33E Feet from: 330 N/S Line: S Feet from: 930 E/W Line: E							
		6. Latitude: 32.2243352308316 Longitude: -103.554789564554							
		7. County: Lea							
8. Operator Name and Address: MURCHISON OIL & GAS INC 1100 Mira Vista Blvd. Plano 75093		9. OGRID: 15363	10. Phone Number: 972-931-0700						
11. Last Fracture Date: 4/26/2014 Frac Performed by: Baker Hughes		12. Production Type: O							
13. Pool Code(s): 96674		14. Gross Fractured Interval: Confidential							
15. True Vertical Depth (TVD): 11,186 ft		16. Total Volume of Fluid Pumped: 3,362,310 gals							
17. Total Volume of Re-Use Water Pumped: N/A		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%	86.01123%			
HCl, 7.6 - 10%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	10%	0.11864%			
Activator, 330 gal tote	Baker Hughes	Activator	Water	7732-18-5	90%	1.06778%			
			Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70%	0.02139%			
			Methanol	67-56-1	50%	0.01528%			
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.01747%			
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.00598%			
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00353%			
BF-9L, 55 gal drum	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.0525%			
			Potassium Hydroxide	1310-58-3	30%	0.02625%			
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.08364%			
Clay Master-5C	Baker Hughes	Clay Control	Water	7732-18-5	30%	0.03346%			
			Oxyalkylated Amine Quat	Trade Secret	60%	0.03064%			
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00027%			
			Methanol	67-56-1	60%	0.00055%			
			Olefin	Trade Secret	5%	5E-05%			
			Polyoxyalkylenes	Trade Secret	30%	0.00027%			
			Propargyl Alcohol	107-19-7	10%	9E-05%			
			Thiourea Polymer	68527-49-1	30%	0.00027%			
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.0322%			
			Sodium Hydroxide	1310-73-2	10%	0.01073%			
			Sodium Tetraborate Decahydrate	1303-96-4	30%	0.0322%			
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Oxyalkylated Alcohol	Trade Secret	5%	0.00032%			
			Petroleum Distillates	64742-47-8	30%	0.00192%			
			Polyacrylate	Trade Secret	60%	0.00383%			
			Sodium Chloride	7647-14-5	3%	0.00019%			
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.02026%			
			Petroleum Distillate Blend (1)	64742-47-8	70%	0.02364%			
			Petroleum Distillate Blend (3)	8042-47-5	70%	0.02364%			
			Petroluerm Distillate Blend (2)	64742-55-8	70%	0.02364%			
GW-4	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	100%	0.19512%			
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	50%	0.00365%			
			Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	0.00154%			
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04593%			
Parasorb 5000, bag	Baker Hughes	Paraffin Inhibitor	Propylene Glycol	57-55-6	30%	0.02756%			
			Calcined Diatomaceous Earth	91053-39-3	60%	0.01473%			
			Silica, Crystalline-Quartz	14808-60-7	1%	0.00025%			
Sand, White, 30/50	Baker Hughes	Proppant	White Mineral Oil	8042-47-5	30%	0.00736%			
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	9.82968%			
OilPlus Bulk (30/50)	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.32098%			
OilPlus Bulk (30/50)	Baker Hughes	Proppant	Quartz (Silica)	14808-60-7	100%	1.75132%			
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00146%			
Ingredients shown above are subject to 29 CFR 1910			Ethylene Glycol	107-21-1	30%	0.00875%			
			Cured Resin	Trade Secret	0%	0.0008468%			
			Fatty Acid Esters	67701-32-0	0%	0.0001386%			
			Fatty Acid Oxyalkylate	70142-34-6	0%	1.46E-05%			
			Formaldehyde	50-00-0	0%	5E-07%			
			Glutaraldehyde	111-30-8	0%	0.006989%			
			Methanol	67-56-1	0%	5.82E-05%			
			Oleate Ester	1338-43-8	0%	0.0001915%			
			Oxyalkylated Alkylphenol	9016-45-9	0%	0.0001313%			
			Polyacrylate	Trade Secret	0%	0.0058326%			
			Polysorbate	9005-65-6	0%	0.0001915%			
			Potassium Chloride	7447-40-7	0%	1.46E-05%			
			Sodium Chloride	7647-14-5	0%	0.0011879%			
			Vinyl Acetate	24937-78-8	0%	0.0049089%			
			Ethalene Copolymer						
			Water	7732-18-5	0%	0.1092295%			
			Xylene	1330-20-7	0%	4.38E-05%			
			diester of sulfosuccinic acid sodium salt	2673-22-5	0%	3.65E-05%			
			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: <u>Signed Electronically</u> Printed Name: <u>Cindy Cottrell</u> Title: <u>Regulatory Coordinator</u>						
			Date: <u>5/20/2014</u>						
			E-mail Address: <u>ccottrell@dmii.com</u>						

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.