

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: 30-025-41030							
		2. Well Name: BRININSTOOL 4 STATE #003H							
		3. Well Number: 003H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:M Lot:M Section:4 Township:24S Range:33E Feet from:200 N/S Line:S Feet from:150 E/W Line:W							
		5. Bottom Hole Location: Unit:D Lot:4 Section:4 Township:24S Range:33E Feet from:337 N/S Line:N Feet from:351 E/W Line:W							
		6. latitude: 32.2400148998792 longitude: -103.585284063364							
		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: 6/6/2013 Frac Performed by: Baker Hughes			12. Production Type: O						
13. Pool Code(s): 59900			14. Gross Fractured Interval: Confidential						
15. True Vertical Depth (TVD): 11,210 ft			16. Total Volume of Fluid Pumped: 80,585 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%	85.48416%			
HCl, 7.6 - 10%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	10%	0.22848%			
Superset-U, tote	Baker Hughes	Activator	Water	7732-18-5	90%	2.05634%			
			Denatured Ethanol	64-17-5	45%	0.01878%			
			Di (Ethylene Glycol) Ethyl Ether Acetate	112-15-2	55%	0.02295%			
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100%	0.00473%			
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.06862%			
Clay Master-5C	Baker Hughes	Clay Control	Water	7732-18-5	30%	0.02745%			
			Oxyakylated Amine Quat	138879-94-4	60%	0.03884%			
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00053%			
			Methanol	67-56-1	60%	0.00105%			
			Olefin	Trade Secret	5%	9E-05%			
			Polyoxyalkylenes	Trade Secret	30%	0.00053%			
			Propargyl Alcohol	107-19-7	10%	0.00018%			
			Thiourea Polymer	68527-49-1	30%	0.00053%			
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.02495%			
			Sodium Hydroxide	1310-73-2	10%	0.00832%			
			Sodium Tetraborate Decahydrate	1303-96-4	30%	0.02495%			
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Aliphatic Hydrocarbon	Trade Secret	30%	0.00912%			
			Oxyalkylated Alcohol	Trade Secret	5%	0.00152%			
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.21597%			
			Petroleum Distillate Blend	8042-47-5	70%	0.50394%			
			Petroleum Distillate Blend	64742-55-8	70%	0.25197%			
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	50%	0.00106%			
			Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	0.00045%			
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.03063%			
			Propylene Glycol	57-55-6	30%	0.01838%			
Parasorb 5000, bag	Baker Hughes	Paraffin Inhibitor	Calcined Diatomaceous Earth	91053-39-3	65%	0.0127%			
			Proprietary Paraffin Inhibitor	Trade Secret	25%	0.00488%			
			Silica, Crystalline-Quartz	14808-60-7	5%	0.00098%			
			White Mineral Oil	8042-47-5	30%	0.00586%			
			Crystalline Silica (Quartz)	14808-60-7	100%	6.65034%			
Sand, White, 30/50	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.31065%			
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.31065%			
OilPlus Bulk (30/50)	Baker Hughes	Proppant	Quartz (Silica)	14808-60-7	100%	3.89164%			
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00096%			
			Ethylene Glycol	107-21-1	30%	0.00574%			
Ingredients shown above are subject to 29 CFR 1910			Anionic Terpolymer	Trade Secret	0%	0.018235%			
			EDTA	64-02-8	0%	1.52E-05%			
			Fatty Acid Esters	67701-32-0	0%	4.04E-05%			
			Fatty Acid Oxyalkylate	70142-34-6	0%	4.3E-06%			
			Formaldehyde	50-00-0	0%	8.8E-06%			
			Inorganic Salt	7647-14-5	0%	0.0015196%			
			Oxyalkylated Alkylphenol	9016-45-9	0%	3.83E-05%			
			Oxyalkylated Fatty Acid Derivative	Trade Secret	0%	0.0015196%			
			Polyacrylate	Trade Secret	0%	0.003827%			
			Polylol Ester	Trade Secret	0%	0.0015196%			
			Potassium Chloride	7447-40-7	0%	9.6E-06%			
			Sodium Chloride	7647-14-5	0%	1.45E-05%			
			Vinyl Acetate Ethalene Copolymer	24937-78-8	0%	0%			
			Water	7732-18-5	0%	0.0449654%			
			Xylene	1330-20-7	0%	1.28E-05%			
			diester of sulfosuccinic acid sodium salt	2673-22-5	0%	1.06E-05%			
			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: <u>Signed Electronically</u>		Printed Name: <u>Cindy Cottrell</u>		Title: <u>Regulatory Coordinator</u>		
			Date: <u>7/9/2013</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.