

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: 30-015-40042					
		2. Well Name: GRIZZLY BEAR STATE COM #002H					
		3. Well Number: 002H					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: L Lot: 12 Section: 1 Township: 17S Range: 28E Feet from: 1550 N/S Line: S Feet from: 150 E/W Line: E					
		5. Bottom Hole Location: Unit: L Lot: 12 Section: 1 Township: 17S Range: 28E Feet from: 1623 N/S Line: S Feet from: 377 E/W Line: W					
		6. Latitude: 32.8620981866726 longitude: -104.121833744896					
		7. County: Eddy					
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: 8/31/2012 Frac Performed by: Baker Hughes				12. Production Type: O			
13. Pool Code(s): 96210				14. Gross Fractured Interval: 4,081 ft to 8,404 ft			
15. True Vertical Depth (TVD): 3,974 ft				16. Total Volume of Fluid Pumped: 51,927 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%	89.84407%	
HCl, 15.1 - 20%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	20%	0.42082%	
			Water	7732-18-5	80%	1.68327%	
Superset-U, tote	Baker Hughes	Activator	Denatured Ethanol	64-17-5	45%	0.00919%	
			Di (Ethylene Glycol) Ethyl Ether Acetate	112-15-2	55%	0.01123%	
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00418%	
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00258%	
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.00087%	
			Water	7732-18-5	97%	0.02813%	
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03465%	
			Water	7732-18-5	30%	0.01386%	
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00046%	
			Methanol	67-56-1	60%	0.00092%	
			Olefin	Trade Secret	5%	8E-05%	
			Polyoxyalkylenes	Trade Secret	30%	0.00046%	
			Propargyl Alcohol	107-19-7	10%	0.00015%	
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.01999%	
			Sodium Hydroxide	1310-73-2	10%	0.00666%	
			Sodium Tetraborate	1330-43-4	30%	0.01999%	
FRW-18	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	0.00292%	
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.19041%	
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.19041%	
			Petroleum Distillate	64742-47-8	60%	0.19041%	
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00678%	
			Ammonium Hydroxide	1336-21-6	5%	0.00034%	
			Cupric Chloride	7447-39-4	5%	0.00034%	
NE-945, tote	Baker Hughes	Non-emulsifier	Oxyalkylated alcohol	Trade Secret	5%	9E-05%	
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	5.34363%	
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.27402%	
Super LC, 20/40	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00013%	
			P/F Resin	9003-35-4	5%	0.06464%	
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	1.25398%	
Flo-Back Prime (tote)	Baker Hughes	Surfactant	Essential Oils	Trade Secret	60%	0.07261%	
			Isopropanol	67-63-0	30%	0.0363%	
Ingredients shown above are subject to 29 CFR 1910			Alkoxylated Amine	Trade Secret	0%	0.0001753%	
			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0001999%	
			Antifoam	Trade Secret	0%	4E-07%	
			Citrus Terpenes	94266-47-4	0%	0.0726062%	
			Ethoxylated Alcohol	Trade Secret	0%	0.0001944%	
			Formaldehyde	50-00-0	0%	7.7E-06%	
			Methanol	67-56-1	0%	3.49E-05%	
			Modified Thiourea Polymer	68527-49-1	0%	0.0001685%	
			Organic Polyol	112-27-6	0%	0.012101%	
			Organic Sulfonic Acid	27176-87-0	0%	3.5E-06%	
			Poly (acrylamide-co-acrylic acid)	Trade Secret	0%	0.0029155%	
			Polyglycol	25322-68-3	0%	3.33E-05%	
			Polyquaternary Amine	Trade Secret	0%	2.1E-05%	
			Salt	Trade Secret	0%	0.0004859%	
			Sodium Chloride	7647-14-5	0%	0.0181592%	
			Sorbitan Monooleate	Trade Secret	0%	0.0004859%	
			Surfactants	Trade Secret	0%	0.0847073%	
						Water	7732-18-5
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: Cindy Cottrell Title: Regulatory Coordinator							
Date: 9/14/2012							
E-mail Address: ccottrell@jdmii.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.							