

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: 30-015-39543							
		2. Well Name: ROCK RIDGE FEDERAL #003H							
		3. Well Number: 003H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:H Lot:H Section:30 Township:24S Range:29E Feet from:1520 N/S Line:N Feet from:350 E/W Line:E							
		5. Bottom Hole Location: Unit:E Lot:5 Section:30 Township:24S Range:29E Feet from:1661 N/S Line:N Feet from:341 E/W Line:W							
		6. latitude: longitude: 32.1916054730873 - 104.016329024073							
		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: 10/4/2012 Frac Performed by: Baker Hughes				12. Production Type: O					
13. Pool Code(s): 96671				14. Gross Fractured Interval: 6,956 ft to 11,300 ft					
15. True Vertical Depth (TVD): 7,196 ft				16. Total Volume of Fluid Pumped: 97,081 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%	88.22273%			
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.14945%			
			Water	7732-18-5	85%	0.84688%			
Activator, 330 gal tote	Baker Hughes	Activator	Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70%	0.00807%			
			Methanol	67-56-1	50%	0.00576%			
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00718%			
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	60%	0.00258%			
			Crystalline Silica Quartz	14808-60-7	30%	0.00129%			
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.07574%			
			Water	7732-18-5	30%	0.0303%			
Clay Master-5C	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60%	0.02928%			
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%	0.03121%			
			Sodium Hydroxide	1310-73-2	10%	0.0104%			
			Sodium Tetraborate	1330-43-4	30%	0.03121%			
FRW-18	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	0.00599%			
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.15365%			
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.15365%			
			Petroleum Distillate	64742-47-8	60%	0.15365%			
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	50%	0.00014%			
			Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	6E-05%			
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00378%			
			Ammonium Hydroxide	1336-21-6	5%	0.00019%			
			Cupric Chloride	7447-39-4	5%	0.00019%			
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%	8.47081%			
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.58612%			
SB Excel 20/40	Baker Hughes	Proppant	Quartz (SiO2)	14808-60-7	100%	0.82339%			
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00136%			
			Ethylene Glycol	107-21-1	30%	0.00819%			
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02851%			
			Mixture of Surfactants	Trade Secret	50%	0.04752%			
			Water	7732-18-5	30%	0.02851%			
			Alkoxylated Amine	Trade Secret	0%	0.0001753%			
Ingredients shown above are subject to 29 CFR 1910			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0001998%			
			Antifoam	Trade Secret	0%	4E-07%			
			Cured Acrylic Resin	Trade Secret	0%	0.0012915%			
			Ethoxylated Alcohol	Trade Secret	0%	0.0003994%			
			Fatty Acid Esters	67701-32-0	0%	5.4E-06%			
			Fatty Acid Oxyalkylate	70142-34-6	0%	6E-07%			
			Formaldehyde	50-00-0	0%	7.7E-06%			
			Methanol	67-56-1	0%	5.98E-05%			
			Modified Thiourea Polymer	68527-49-1	0%	0.0001684%			
			Organic Sulfonic Acid	27176-87-0	0%	3.5E-06%			
			Oxyalkylated Alkylphenol	9016-45-9	0%	5.1E-06%			
			Poly (acrylamide -co-acrylic acid)	Trade Secret	0%	0.0059906%			
			Polyacrylate	Trade Secret	0%	0.0054571%			
			Polyglycol	25322-68-3	0%	3.33E-05%			
			Polyquaternary Amine	Trade Secret	0%	2.1E-05%			
			Potassium Chloride	7447-40-7	0%	1.36E-05%			
			Salt	Trade Secret	0%	0.0009984%			
			Sodium Chloride	7647-14-5	0%	1.58E-05%			
			Sorbitan Monooleate	Trade Secret	0%	0.0009984%			
			Water	7732-18-5	0%	0.0641808%			
			Xylene	1330-20-7	0%	1.7E-06%			
			diester of sulfosuccinic acid sodium salt	2673-22-5	0%	1.4E-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: Cindy Cottrell Title: Regulatory Coordinator						
			Date: 11/12/2012						
			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.