

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: 30-015-40589						
		2. Well Name: VANDIVER FEE #001H						
		3. Well Number: 001H						
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:E Lot:E Section:17 Township:18S Range:26E Feet from:2472 N/S Line:N Feet from:265 E/W Line:W						
		5. Bottom Hole Location: Unit:H Lot:8 Section:17 Township:18S Range:26E Feet from:2262 N/S Line:N Feet from:333 E/W Line:E						
		6. Latitude: 32.7490335755755 longitude: -104.396396564641						
		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: 8/16/2013 Frac Performed by: Baker Hughes		12. Production Type: O						
13. Pool Code(s): 96210		14. Gross Fractured Interval: Confidential						
15. True Vertical Depth (TVD): 2,426 ft		16. Total Volume of Fluid Pumped: 4,061,148 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%	87.18228%		
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.18668%		
Superset-U, tote	Baker Hughes	Activator	Water	7732-18-5	85%	1.05786%		
			Denatured Ethanol	64-17-5	45%	0.01798%		
			Di (Ethylene Glycol)	112-15-2	55%	0.02197%		
			Ethyl Ether Acetate					
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100%	0.00644%		
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00386%		
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.0322%		
			Water	7732-18-5	30%	0.01288%		
Clay Master-5C	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60%	0.00386%		
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00057%		
			Methanol	67-56-1	60%	0.00115%		
			Olefin	Trade Secret	5%	0.0001%		
			Polyoxyalkylenes	Trade Secret	30%	0.00057%		
			Propargyl Alcohol	107-19-7	10%	0.00019%		
			Thiourea Polymer	68527-49-1	30%	0.00057%		
			Ethylene Glycol	107-21-1	30%	0.02393%		
XLW-10A	Baker Hughes	Crosslinker	Sodium Hydroxide	1310-73-2	10%	0.00798%		
			Sodium Tetraborate	1303-96-4	30%	0.02393%		
			Decahydrate					
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Aliphatic Hydrocarbon	Trade Secret	30%	0.00627%		
			Oxyalkylated Hydrocarbon	Trade secret	5%	0.00104%		
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.22355%		
			Petroleum Distillate Blend (1)	64742-47-8	70%	0.26081%		
			Petroleum Distillate Blend (3)	8042-47-5	70%	0.26081%		
			Petroluem Distillate Blend (2)	64742-55-8	70%	0.26081%		
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	50%	0.00044%		
			Distillates, Petroleum, Hydroreated Middle	64742-47-8	21.1%	0.00019%		
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00473%		
			Ammonium Hydroxide	1336-21-6	5%	0.00024%		
			Cupric Chloride	7447-39-4	5%	0.00024%		
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04039%		
			Propylene Glycol	57-55-6	30%	0.02423%		
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	7.95976%		
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.38713%		
BDX93148 Oil Plus, 20/40, bulk	Baker Hughes	Proppant	Quartz (SiO2)	14808-60-7	100%	1.94174%		
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00118%		
			Ethylene Glycol	107-21-1	30%	0.0071%		
			Cured Resin	Trade Secret	0%	0.0009269%		
			Fatty Acid Esters	67701-32-0	0%	1.67E-05%		
			Fatty Acid Oxyalkylate	70142-34-6	0%	1.8E-06%		
			Formaldehyde	50-00-0	0%	9.6E-06%		
			Oxyalkylated Alkylphenol	9016-45-9	0%	1.59E-05%		
			Polyacrylate	Trade Secret	0%	0.0047363%		
			Potassium Chloride	7447-40-7	0%	1.18E-05%		
			Sodium Chloride	7647-14-5	0%	1.67E-05%		
			Water	7732-18-5	0%	0.0285934%		
			Xylene	1330-20-7	0%	5.3E-06%		
			diester of sulfosuccinic acid sodium salt	2673-22-5	0%	4.4E-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: 9/17/2013					
			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.