

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 6, 2013				
		1. WELL API NO: 30-015-43898				
		2. Well Name: MAD RIVER 13 STATE COM #003H				
		3. Well Number: 003H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:P Lot:P Section:13 Township:24S Range:27E Feet from:330 N/S Line:S Feet from:100 E/W Line:E				
		5. Bottom Hole Location: Unit:P Lot:P Section:13 Township:24S Range:27E Feet from:330 N/S Line:S Feet from:100 E/W Line:E				
		6. Latitude: 32.211285 longitude: -104.135825				
		7. County: Eddy				
8. Operator Name and Address: CAZA OPERATING, LLC 200 N LORAIN STE 1550 MIDLAND 79701		9. OGRID: 249099		10. Phone Number: 432-682-7424		
11. Last Fracture Date: 12/18/2016 Frac Performed by: Liberty Frac		12. Production Type: O				
13. Pool Code(s): 98189		14. Gross Fractured Interval: 9,296 ft to 9,331 ft				
15. True Vertical Depth (TVD): 9,296 ft		16. Total Volume of Fluid Pumped: 5,537,011 gals				
17. Total Volume of Re-Use Water Pumped: 0 gals		18. Percent of Re-Use Water in Fluid Pumped: %				
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	Caza	Carrier	Water	7732-18-5	100%	82.24%
FRP-E3-8	Liberty	Friction Reducer	Distillates, hydrotreated light Alcohols, C12-16, Ethoxylated propoxylated	64742-47-8 68213-24-1	45% 5%	0.00456% 0.00051%
CSA-23	Liberty	Clay Stabilizer	Trade Secret	Proprietary	100%	0.09051%
Bioclear 5000	Lubrizol	Biocide	2,2 Dibromo-3 nitiopropionamide	10222-01-2	10%	0.0208%
SAFE-BFH	Liberty	High pH buffer	proprietary	proprietary	100%	0.03304%
XLB-88	Liberty	Crosslinker	Ethylene glycol	107-21-1	55%	0.0450568%
			Water	7732-18-5	75%	0.0614411%
			Borate Salt	1303-96-4	30%	0.0245764%
BHE-18	Liberty	Gel Breaker	Ammonium Persulfate	7727-54-0	75%	0.0028186%
			Acrylic Copolymer	Proprietary	30%	0.0011274%
			Proprietary	Proprietary	7.5%	0.0002819%
			Diethylene Glycol Monobutyl Ether	112-34-5	5%	0.0001879%
BLR-18	Liberty	Powder Breaker	Ammonium Persulfate	7727-54-0	99%	0.0008446%
HCL-15	Liberty	Solvent	Hydrochloric Acid	7647-01-0	30%	0.305381%
			Water	7732-18-5	70%	0.71256%
ACI-97	Liberty	Corrosion Inhibitor	Ethylene glycol	107-21-1	40%	0.0007913%
			Dipropylene glycol, monomethyl ether	34590-94-8	20%	0.0004%
			Ethoxylated alcohol	Proprietary	10%	0.0002%
			Formic acid	64-18-6	10%	0.0002%
			Tar bases, quinoline derivs., benzyl chloride-quaternized	72480-70-7	10%	0.0002%
			Cinnamaldehyde	72480-70-7	10%	0.0002%
			Isopropyl alcohol	67-63-0	5%	0.0001%
ASF-67	Liberty	Nonionic Non-Emulsifier	Methanol	67-56-1	50%	0.00041%
ICI-5L	Liberty	Iron Sequestering Agent	Citric acid	77-92-9	60%	0.00131%
LGA-3J	Liberty	Guar Slurry	Petroleum Distillates Blend	Proprietary	65%	0.00996%
PGA-4045	Liberty	Guar	Guar Gum	9000-30-0	100%	0.12725%
Liberty Clean Out Fluid	Liberty	Cleanup Solution	Naphtha (petroleum) hydrotreated heavy	64742-96-7	100%	0.00179%
Propstar / Unimin	Liberty	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	98%	1.69153%
			Phenol-Formaldehyde Resin	9003-35-4	4%	0.06904%
Crystalline Silica, Quartz / Unimin Corp	Liberty	Sand	Crystalline Silica in the form of Quartz	14808-60-7	99.9%	14.56324%
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: Signed Electronically		Printed Name: Steve Morris		Title: _____		
Date: 1/18/2017						
E-mail Address: steve.morris@mojoenergy.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.