

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: 30-015-44042				
		2. Well Name: MAD RIVER 13 STATE COM #004H				
		3. Well Number: 004H				
HYDRAULIC FRACTURING FLUID DISCLOSURE  <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit: I    Lot: I    Section: 13    Township: 24S    Range: 27E Feet from: 1987    N/S Line: S Feet from: 100    E/W Line: E				
		5. Bottom Hole Location: Unit: I    Lot: I    Section: 13    Township: 24S    Range: 27E Feet from: 2054    N/S Line: S Feet from: 411    E/W Line: W				
		6. latitude:    longitude: 32.215719    -104.135331				
		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: 4/2/2017    Frac Performed by: Liberty Oilfield Services		12. Production Type: G				
13. Pool Code(s): 98220		14. Gross Fractured Interval: 9,712 ft to 13,977 ft				
15. True Vertical Depth (TVD): 9,155 ft		16. Total Volume of Fluid Pumped: 5,626,856 gals				
17. Total Volume of Re-Use Water Pumped: N/A		18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed				
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	Operator	Carrier	Water	7732-18-5	100%	82.70914%
FRP-E3-8	Liberty Oilfield Services	Friction reduction	Distillates (petroleum), hydrotreated light	64742-47-8	45%	0.00523%
			Alcohols, C12-16, ethoxylated propoxylated	68213-24-1	5%	0.00058%
			CSA-23	Liberty Oilfield Services	Permanent clay stabilizer	Trade Secret
Bioclear 5000	Lubrizol	Biocide	2,2-dibromo-3-nitriopropionamide	10222-01-2	10%	0.00214%
SAFE-BFH	Liberty Oilfield Services	High pH Buffer	Trade Secret	Proprietary	100%	0.04777%
XLB-88	Liberty Oilfield Services	Crosslinker	Ethylene glycol	107-21-1	55%	0.04227%
			Water	7732-18-5	75%	0.05764%
			Borate Salt	1303-96-4	30%	0.02306%
BLE-18	Liberty Oilfield Services	Gel Breaker	Ammonium Persulfate	7732-18-5	75%	0.0041%
			Acrylic Copolymer	Proprietary	20%	0.00109%
			Proprietary	Proprietary	6%	0.00033%
			Diethylene Glycol Monobutyl Ether	112-34-5	5%	0.00027%
HCL-15	Liberty Oilfield Services	Solvent	Hydrochloric Acid	7732-18-5	15%	0.05235%
			Water	7732-18-5	85%	0.29663%
ACI-97	Liberty Oilfield Services	Corrosion Inhibitor	Ethylene glycol	107-21-1	40%	0.00027%
			Dipropylene glycol, monomethyl ether	34590-94-8	20%	0.00014%
			Ethoxylated alcohol	Proprietary	10%	7E-05%
			Formic acid	64-18-6	10%	7E-05%
			Tar bases, quinoline derivs., benzyl chloride-quaternized	72480-70-7	10%	7E-05%
			Cinnamaldehyde	104-55-2	10%	7E-05%
			Isopropyl alcohol	Isopropyl alcohol	5%	3E-05%
			ASF-67	Liberty Oilfield Services	Nonionic Non-Emulsifier	Methanol
ICI-5L	Liberty Oilfield Services	Iron Sequestering Agent	Citric acid	77-92-9	60%	0.00045%
LGA-3J	Liberty Oilfield Services	Guar Slurry	Petroleum Distillates Blend	Proprietary	65%	0.02592%
PGA-4045	Liberty Oilfield Services	Guar	Guar Gum	9000-30-0	100%	0.11574%
Liberty Clean Out Fluid	Liberty Oilfield Services	Cleanup Solution	Naphtha (petroleum) hydrotreated heavy	64742-96-7	100%	0.00023%
Santrol RCS / Santrol	Liberty Oilfield Services	Proppant	Crystalline Silica (quartz)	14808-60-7	97%	1.89297%
			Phenol-Formaldehyde Novolak Resin	9003-35-4	5%	0.09758%
			Hexamethyleneteramine	100-97-0	1%	0.01952%
Crystalline Silica, Quartz / Unimin Corp	Liberty Oilfield Services	Sand	Crystalline Silica in the form of Quartz	14808-60-7	99.9%	14.55702%
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: 4/28/2017						
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.