

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: 30-025-42358				
		2. Well Name: IGLOO 19 STATE #004H				
		3. Well Number: 004H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:O Lot:O Section:19 Township:20S Range:35E Feet from:200 N/S Line:S Feet from:1850 E/W Line:E				
		5. Bottom Hole Location: Unit:O Lot:O Section:19 Township:20S Range:35E Feet from:200 N/S Line:S Feet from:1850 E/W Line:E				
		6. latitude: longitude: 32.55193 -103.494041				
		7. County: Lea				
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: 10/22/2016 Frac Performed by: Liberty Oilfield Services		12. Production Type: O				
13. Pool Code(s): 37580		14. Gross Fractured Interval: 11,292 ft to 15,281 ft				
15. True Vertical Depth (TVD): 11,441 ft		16. Total Volume of Fluid Pumped: 3,774,330 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%	85.02536%
FRP-E3-8	Liberty Oilfield Services	Friction reduction	Distillates (petroleum), hydrotreated light	64742-47-8	45%	0.02354%
			Alcohols, C12-16, ethoxylated propoxylated	68213-24-1	5%	0.00262%
CSA-23	Liberty Oilfield Services	Permanent clay stabilizer	Trade Secret	Proprietary	100%	0.10506%
Bioclear 5000	Lubrizol	Biocide	2,2-dibromo-3-nitrilopropionamide	10222-01-2	10%	0.00234%
SAFE-BFH	Liberty Oilfield Services	High pH Buffer	Proprietary / Trade Secret	Proprietary	100%	0.05537%
XLB-88	Liberty Oilfield Services	Crosslinker	Ethylene glycol	107-21-1	55%	0.03056%
			Water	7732-18-5	75%	0.04167%
Breaker-2B	Liberty Oilfield Services	Breaker	Borate Salt	1303-96-4	30%	0.01667%
			Ammonium persulfate	7727-54-0	100%	0.00346%
BLR-18	Liberty Oilfield Services	Powder Breaker	Silica, crystalline - quartz	14808-60-7	10%	0.00035%
HCL-15	Liberty Oilfield Services	Solvent	Ammonium Persulfate	7727-54-0	99%	0.00138%
			Hydrochloric Acid	7647-01-0	30%	0.41619%
WG-10BL	Liberty Oilfield Services	Guar Slurry	Water	7732-18-5	70%	0.9711%
			Distillates Petroleum, Hydro Treated	64742-47-8	55%	0.135%
Carbo Econoprop / Carbo Ceramics	Liberty Oilfield Services	Proppant	Guar Gum	9000-30-0	55%	0.135%
			Suspending Agent	Proprietary	5%	0.01227%
			Silicon Dioxide (Amorphous as glass)	7631-86-9	35%	0.42628%
EL-Prop / Imerys	Liberty Oilfield Services	Proppant	Mullite	1302-93-8	85%	1.03525%
			Silica Crystalline-Cristbalite	14464-46-1	20%	0.24359%
			Mullite (Aluminum Silicate)	1302-93-8	60%	6.73082%
			Amorphous silica	7631-86-9	35%	3.92631%
			Christobalite	14464-64-1	5%	0.5609%
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: 11/17/2016 _____						
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.