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| 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: 30-025-42357 | | | | |
| | | 2. Well Name: IGLOO 19 STATE #003H | | | | |
| | | 3. Well Number: 003H | | | | |
| HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment | | 4. Surface Hole Location: Unit:O Lot:O Section:19 Township:20S Range:35E Feet from:200 N/S Line:S Feet from:1800 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:1800 E/W Line:E | | | | |
| | | 6. latitude: longitude: 32.551936424 -103.4938656 | | | | |
| | | 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: 10/26/2016 Frac Performed by: Liberty Frac | | 12. Production Type: O | | | | |
| 13. Pool Code(s): 37580 | | 14. Gross Fractured Interval: 12,083 ft to 16,075 ft | | | | |
| 15. True Vertical Depth (TVD): 11,620 ft | | 16. Total Volume of Fluid Pumped: 48,726,532 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% |
| FRP-E3-8 | Liberty | Friction reducer | Distillates (petroleum), hydrotreated light | 64742-47-8 | 45% | 0.02354% |
| | | | Alcohols, C12-16, ethoxylated propoxylated | 68213-24-1 | 5% | 0.00262% |
| | | | CSA-23 | Liberty | Permanent clay stabilizer | Trade Secret |
| Bioclear 5000 | Lubrizol | Biocide | 2,2-dibromo-3- nitrilopropionamide | 10222-01-2 | 10% | 0.00234% |
| SAFE-BFH | Liberty Oilfield Services | High pH Buffer | Proprietary | 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% |
| | | | Borate Salt | 1303-96-4 | 30% | 0.01667% |
| Breaker-2B | Liberty Oilfield Services | Breaker | Ammonium persulfate | 7727-54-0 | 100% | 0.00346% |
| | | | Silica, crystalline - quartz | 14808-60-7 | 10% | 0.00035% |
| BLR-18 | Liberty Oilfield Services | Powder Breaker | Ammonium Persulfate | 7727-54-0 | 99% | 0.00138% |
| HCL-15 | Liberty Oilfield Services | Solvent | Hydrochloric Acid | 7647-01-0 | 30% | 0.41619% |
| | | | Water | 7732-18-5 | 70% | 0.9711% |
| WG-10BL | Liberty Oilfield Services | Guar Slurry | Distillates Petroleum, Hydro Treated | 64742-47-8 | 55% | 0.135% |
| | | | Guar Gum | 9000-30-0 | 55% | 0.135% |
| | | | Suspending Agent | Proprietary | 5% | 0.01227% |
| Carbo Econoprop / Carbo Ceramics | Liberty Oilfield Services | Proppant | Silicon Dioxide (Amorphous as glass) | 7631-86-9 | 35% | 0.42628% |
| | | | Mullite | 1302-93-8 | 85% | 1.03525% |
| | | | Silica Crystalline- Cristbalite | 14464-46-1 | 20% | 0.24359% |
| EL-Prop / Imerys | Liberty Oilfield Services | Proppant | 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.