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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: 30-015-41920 | | | | |
| | | 2. Well Name: LOST RIVER FEE #001 | | | | |
| | | 3. Well Number: 001 | | | | |
| HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment | | 4. Surface Hole Location: Unit:P Lot:P Section:23 Township:23S Range:27E Feet from:990 N/S Line:S Feet from:990 E/W Line:E | | | | |
| | | 5. Bottom Hole Location: Unit:P Lot:P Section:23 Township:23S Range:27E Feet from:990 N/S Line:S Feet from:990 E/W Line:E | | | | |
| | | 6. latitude: 32.2859901256742 longitude: -104.155783931067 | | | | |
| | | 7. County: Eddy | | | | |
| | | | | | | |
| 8. Operator Name and Address: MACK ENERGY CORP PO Box 960 11344 Lovington Hwy Artesia 88211 | | 9. OGRID: 13837 | 10. Phone Number: 575-748-1288 | | | |
| 11. Last Fracture Date: 12/1/2014 Frac Performed by: Elite Well Services | | 12. Production Type: O | | | | |
| 13. Pool Code(s): 10380 | | 14. Gross Fractured Interval: 6,834 ft to 9,273 ft | | | | |
| 15. True Vertical Depth (TVD): 9,126 ft | | 16. Total Volume of Fluid Pumped: 2,838,612 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 | Customer | Carrier/Base Fluid | Water | 7732-18-5 | 100% | 95.58445% |
| Sand (Proppant) | US Silica | Proppant | Silica Substrate | 14808-60-7 | 100% | 4.05346% |
| RCS (Proppant) | Momentive | Proppant | Silica Substrate | 14808-60-7 | 100% | 0% |
| Hydrochloric Acid | CNR | Acidizing | Hydrochloric Acid | 7647-01-0 | 38.8% | 0.09172% |
| Claymax | Chemplex | Clay Stabilizer | Choline Chloride | 67-48-1 | 62% | 0% |
| 4-N-1 Plus | Chemplex | Iron Contol, Corr Inhib | Acetic Acid | 64-19-7 | 80% | 0.00143% |
| | | | Methanol | 67-56-1 | 10% | 0.00018% |
| Plexcide 24B | Chemplex | Biocide | Tetrahydro-3 Dimethyl- 2H | 533-74-4 | 24% | 0.00664% |
| Plexset 730 | Chemplex | Activator | Secondary Alcohol Ethoxylate | 84133-50-6 | 50% | 0% |
| Plexsurf 580 ME | Chemplex | Surfactant | Methyl Alcohol | 67-56-1 | 10% | 0% |
| | | | 2-Butoxyethanol | 111-76-2 | 50% | 0% |
| Plexslick 953 | Chemplex | Friction Reducer | Alcohol Ethoxylate Surfactants | Proprietary | 8% | 0.00613% |
| | | | Hydrotreated Petroleum Distillate | 64742-47-8 | 30% | 0.02299% |
| | | | Polyacrylamide-CO-Acrylic Acid | 9003-06-9 | 31% | 0.02376% |
| AMA 398 | Chemplex | Biocide | Tetrahydro-3 Dimethyl 2H | 533-74-4 | 98% | 0% |
| Plexgel 907 LE | Chemplex | Poylmer | Guar Gum | 9000-30-0 | 50% | 0% |
| | | | Mineral Oil | 64742-47-8 | 55% | 0% |
| | | | Bentonite Clay | 14808-60-7 | 2% | 0% |
| | | | Surfactant | 68439-51-0 | 2% | 0% |
| Plexbor 101 | Chemplex | Crosslinker | Ethylene Glycol | 107-21-1 | 9.99% | 0% |
| | | | Potassium Metaborate | 13709-94-9 | 30% | 0% |
| | | | Potassium Hydroxide | 1310-58-3 | 5% | 0% |
| Plexgel Breaker 10L | Chemplex | Gel Breaker | Mannanase Enzymes | Proprietary | 2% | 0% |
| | | | Sodium Chloride | 7647-14-5 | 15% | 0% |
| Sodium Persulfate | Chemplex | Gel Breaker | Sodium Persulfate | 7775-27-1 | 98% | 0% |
| Buffer 11 | Chemplex | PH Control | Potassium Hydroxide | 1310-58-3 | 23% | 0% |
| Greenhib 679 | Chemplex | Scale Inhibitor | Glycerine | 56-81-5 | 35% | 0.00687% |
| | | | Proprietary | Proprietary | 35% | 0.00687% |
| | | | Water | 7732-18-5 | 30% | 0.00589% |
| Scalesorb 3 | Baker Hughes | Scale Inhibitor | Diatomaceous Earth, Calcined | 91053-39-3 | 69% | 0% |
| | | | Amino Alkyl Phosphonic Acid | Proprietary | 30% | 0% |
| | | | Phosphonic Acid | 13598-36-2 | 1% | 0% |
| | | | Ctystalline Silica: Quartz (SiO2) | 14808-60-7 | 1% | 0% |
| Plexgel Breaker XPA | Chemplex | Gel Breaker | Hydrogen Peroxide | 7722-84-1 | 7% | 0% |
| 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: Deana Weaver | | Title: Production Clerk | | |
| Date: 12/4/2014 | | | | | | |
| E-mail Address: deanap@mackenergycorp.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.