| Submit within 45 days of well completion | | State of New Mexico | | | | Revised November 6, 2013 1. WELL API NO. | | | |
|---|--------------------------------------|---|---|---|-------------------|--|--------------------------------|---|--|
| | | | | | uroco | 30 | -015-43482 | | |
| | | Energy, Minerals and Natural Resources | | | | 2. Well Name: HUMMINGBIRD FEDERAL COM #017H | | | |
| | | Oil Con | Oil Conservation Division | | | 3. Well Number: | | | |
| 1220 S. St Francis Dr. | | | | | | 017H | | | |
| | | Sant | a Fe, NM 875 | 505 | | | | | |
| HYDRAULIC FI | RACTUR | ING FLUID | | | | 4. Surface Ho | | | |
| DISCLOSURE | | | | | | Feet from:43 | 30 N/ | wnship:17S Range:31E S Line:N | |
| ⊠ Original | | | | | | Feet from:10 | | W Line:W | |
| □ Amendment | | | | | | Unit:D Lo | t:4 Section:1 To | wnship:17S Range:31E | |
| | | | | | | Feet from:43 Feet from:10 | | S Line:N W Line:W | |
| | | | | | | 6. latitude: | 2.86975288 | ongitude: -103.8314056 | |
| | | | | | | 7. County: | | -100.0014000 | |
| | | | | | | Ed | ldy | | |
| 8. Operator Name and Address APACHE CORP 303 Veterans Airp Suite 3000 Midland 79705 | | | 9. OGRID: | 873 | 10. Phone Number: | 432-818-1801 | | | |
| 11. Last Fracture Date: 7/7/2017 Frac Performed by: PUMPCO | | | | | | n Type: | 1 | | |
| 13. Pool Code(s): | | | | | | O 4. Gross Fractured Interval: | | | |
| 26770 15. True Vertical Depth (TVD): | | 6,198 ft to 10,429 ft 16. Total Volume of Fluid Pumped: | | | | | | | |
| 5,930 ft | | 3,4 | | | 405,936 gals | | | | |
| 17. Total Volume of Re-Use Wa | | | | f Re-Use Water in Fluid Pumped: of Disclosed | | | | | |
| 19. HYDRAULIC FLUID | COMPOS | SITION AND CONCENTRA | TION: | | • | | | | |
| Trade Name | Supplier | Purpose | Ingredients | (CAS #) Chemi Service # | cal Abstract | Maximum Ing Concentratio | redient n in Additive (% by | Maximum Ingredient Concentration in HF Fluid (% by | |
| Water | Customer | Carrier/Base Fluid | Water | 7732-18-5 | | mass) | 100% | mass) 84.07207% | |
| Sand (Proppant) | US Silica | Proppant | Silica Substrate | 14808-60-7 | | | 100% | 12.51497% | |
| RCS (Proppant) Hydrochloric Acid (15%) | Momentive | Proppant Acidizing | Silica Substrate Hydrochloric Acid | 14808-60-7 7647-01-0 | | 100% 38.8% | | 0% 1.24123% | |
| 4-N-1 Plus | Chemplex | Š | Acetic Acid | 64-19-7 | | | 80% | 0.01934% | |
| Discride 041 | Observation | Inhib,Surfactant | Methanol | 67-56-1 | | | 10% | 0.00242% | |
| Plexcide 24L | Chemplex | Biocide | Tetrahydro- 3,Dimethyl-2H | 533-74-4 | | | 24% | 0% | |
| Plexset 730 | Chemplex | Activator | Secondary Alcohol Ethoxylate | 84133-50-6 | | | 50% | 0% | |
| Plexsurf 240 E | Chemplex | Surfactant | Methyl Alcohol | 67-56-1 | -56-1 | | 10% | 0.00826% | |
| Diagolist 052 | Champles | Frieties Baduses | 2-Butoxyethanol | 111-76-2 | | | 50% | 0.04131% | |
| Plexslick 953 | Chemplex | Friction Reducer | Alcohol Ethoxylate Surfactants | Proprietary | | | 8% | 0.00538% | |
| | | | Hydrotreated Petroleum Distillate | 64742-47-8 | | | 25% | 0.01683% | |
| | | | Polyacrylamide-co- | 9003-06-9 | | | 31% | 0.02087% | |
| Plexgel 907 LE | Chemplex | Polymer | Acrytic Acid Guar Gum | 9000-30-0 | | | 50% | 0% | |
| Flexyel 907 LE | Chemplex | Folymer | Mineral Oil | 64742-47-8 | | | 55% | 0% | |
| | | | Bentonite Clay | 14808-60-7 | | | 2% | 0% | |
| Plexbor 101 | Chemplex | Crosslinker | Surfactant Ethylene Glycol | 68439-51-0 107-21-1 | | | 2% 9.99% | 0% | |
| | | | Potssium Metaborate | | | | 30% | 0% | |
| Plexgel Breaker 10L | Chemplex | Gel Breaker | Potassium Hydroxide Mannanase | Proprietary | | | 5% 2% | 0% 0% | |
| · · · · · · · · · · · · · · · · · · · | , ,,,,, | | Enzymes | | | | | | |
| Sodium Persulfate | Chemplex | Gel Breaker | Sodium Chloride Sodium Persulfate | 7647-14-5 7775-27-1 | | | 15% 98% | 0% | |
| Plexaid TDS | Chemplex | PH Control | Diaminodiethylamine | 111-40-0 | | | 90% | 0% | |
| Greenhib 679 | Chemplex | Scale Inhibitor | Glycerine Proprietary | 56-81-5 Proprietary | | | 35% 35% | 0.0082% 0.0082% | |
| | | | Water | 7732-18-5 | | | 30% | 0.00703% | |
| Clayplex 650 | Chemplex | Clay Stabilizer | Water Ethanaminium, 2- | 7732-18-5 67-48-1 | | | 60% 35% | 0.00802% 0.00468% | |
| | | | hydroxy-N,N,N- | 01-40-1 | | | 30% | 0.00408% | |
| Plexcide 15G | Chemplex | , LC Biocide | trimethyl-, chloride Glutaraldehyde | 111-30-8 | | | 14% | 0.00042% | |
| I ICAGIGE TOO | Shemplex | , LO DIOCIUE | Didecyl dimethyl | 7173-51-5 | | | 3% | 9E-05% | |
| | | | ammonium chloride Alkyl dimethyl benzyl | 68424-85-1 | | | 3% | 9E-05% | |
| | | | ammonium chloride | | | | | | |
| Pleyhor 100 | Champles | Crosslinkrer | Ethanol | 64-17-5 12174-11-7 | | | 3% 5% | 9E-05% 0% | |
| Plexbor 108 | Chemplex | Grossiinkrer | Hydrated Aluminmagnesium | 12114-17-1 | 121/4-11-/ | | 5% | 0% | |
| | | | Silicate | 111 20 0 | | | 407 | 00/ | |
| | | | Glutaraldehyde Crystalline Slilca | 111-30-8 14808-60-7 | | | 1% 1% | 0% | |
| Buffer 11 | Chemplex | | Potassium Hydroxide | 1310-58-3 | | , | 23% | 0% | |
| | fy that the inforr Electronically | nation shown on this disclosure form Printed Name: Emily | | best of my knowl | edge and belie | | rod Dept Asst | | |
| Date: 8/14/201 | | i inted Name. Littliy | | | | . me. <u>oi F</u> | . 14 2 opt 1100t | - | |
| | llis@apached | orp.com | | | | | | | |
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