

TMBR/SHARP DRILLING, INC.

Angel "13" State No. 2
2310' FNL & 2310' FEL
Sec. 13, T-17S, R-35E
Lea County, NM

- 10/17/00 RU Pool Well Service. Spot pipe racks, unload 229 jts new 2 $\frac{7}{8}$ " 6.5# J-55 tbg. Install 11" 3000 x 7 $\frac{1}{16}$ " 3000 tbg head. Test seals to 1000 psi, ok. NU BOP. RU tongs & floor. Secure well. SD @ 6:15 PM.
- 10/18/00 PU 4 $\frac{3}{4}$ " bit & csg scraper. Start in hole. Tbg collars hanging on 5 $\frac{1}{2}$ " csg. Wait on stripper guide. Install stripper guide. GIH w/2 $\frac{7}{8}$ " tbg to 7253'. RU Petroplex acidizing. Pickle tbg w/500 gal xylene & 500 gal 15% HCL acid. Circ hole w/2% KCL FW. Press csg & BOP to 1000 psi, ok. Spot 1000 gal 10% acetic acid. RD Petroplex. POH w/tbg. RU Apollo wireline. Run Bond Log CCL from 7248' to 5248'. Weak bond 7050' to 6600', micro annulus, good bond rest of log. TOC 3000'. Secure well. SD @ 8:30 PM.
- 10/19/00 GIH w/4" perf gun. **Perf w/HP jet charge from 7160-7180', 2 JSPF, 40 holes.** RD Apollo. PU Baker Model "R", test tbg to 6000 psi, ok. RU Petroplex, reverse acetic acid into tbg. Set pkr @ 7006', test to 1000 psi, ok. Break formation 3880 psi, 1 $\frac{1}{4}$ BPM, flush acid to top perf. Avg 3800 psi, avg rate 1.4 BPM. ISIP 3520 psi, 5 min 3165 psi, 10 min 2970 psi, 15 min 2830 psi. Flow 10 BBL, died. RU swab. Made 6 runs, dry @ 7000'. Secure well. SD @ 7:00 PM. Rec 43 BBL, all wtr, 26 BLWTR of 69 BBL load.
- 10/20/00 SITP 0 psi. GIH w/swab. Fluid @ 6600'. Swab dry. RU Petroplex Acid. Pump 1000 gal 15% NEFE acid w/60 - 7 $\frac{1}{8}$ " balls. Avg rate 30 BPM, avg press 390 psi. No ball action. ISIP 3350 psi, 5 min 2925 psi, 10 min 2840 psi, 15 min 2796 psi. Flowed 12 BBL. RU swab. Swab down in 7 runs, 10% oil last 2 runs, good gas blow. Wait 1 hr. Fluid 6500', 55% oil. Secure well. SD @ 6:00 PM. Rec 57 BBL of 100 total BBL load wtr, 39 BLWTR.
- 10/21/00 SITP 20 psi. Bled well down. 1st swab run FL 5900', strong gas blow, 50% oil. 2nd run 6800', 55% oil, strong gas blow. 3rd run 6950', 40% oil, strong gas ahead. Load tbg w/2% KCL, release pkr. POH. Install Guardian frac valve & csg saver. Wait on BJ 4 hrs. BJ arrived on location. Start RU, blender locked up. Secure well. SD @ 8:00 PM.
- 10/22/00 SICP 0. RU BJ, test lines to 5000 psi. Pump 83 BBL Prepad @ 21 BPM. Pump liner pad w/100 mesh. SD 4000 psi @ 21 BPM. ISIP 3200 psi, 5 min 3120 psi, 10 min 2960 psi, 15 min 2840 psi. Wait on perforators. RU Black Warrior Wireline. **GIH w/4" select fire, shot 2 SPF or 7226', 7222', 7209', 7165', 7161', 7146', 7142', 7130', 7110', 7102', 7099', 7089', 7085' (26 holes).** RU tree saver. RU BJ, test lines to 5500 psi. Pump 2500 gal 15% NEFE acid, prepad of 2976#, sand slug, x-link pad of 215 BBL. Start 2 ppg 20/40, increase to 4 ppg 20/40, increase to 5 ppg 20/40, flush to top perf. Avg press 4280 psi, avg rate 3.1 BPM. ISDP 3730 psi. Open well $\frac{1}{2}$ hr, flow 20 BBL. SI, remove tree saver, RU flow back manifold. SITP 2600 psi @ 12:00 midnight.
- 10/23/00 Total fluid pumped on frac 1052 BBL, 54,000# sand. Open well on 8/64" ck 2 12:19 PM. SITP 2650 psi. Flow 2 hrs, open to 14/64" ck, flowing press 2450 psi. Flow 6 hrs, press 1550 psi, made 163 BBL. 12:00 noon, 500 psi, 275 BBL total. 3:00 PM 300 psi, 308 BBL total. 6:00 PM 150 psi, 329 BBL total. 9:30 PM 50 psi, 341 BBL total, trace oil.
- 10/24/00 Flowed well until 7:30 AM, died. Rec 355 BBL, trace oil. RD well testers & frac valve. GIH w/1 jt 2 $\frac{7}{8}$ " tbg w/notched collar on btm, SN, 6 jts 2 $\frac{7}{8}$ " tbg, TAC, remaining tbg. Tag sand @ 7156'. RU Pool pump, wash sand @ 7253'. Circ clean. POH 180', wait $\frac{1}{2}$ hr. GIH, no fill. ND BOP. Set TAC w/12,000# tension @ 6974'. Install tbg flange, RU master valve. Swab 6 runs, FL standing 1000'. Rec 60 BBL. Secure well & SD @ 6:30 PM. Rec 415 BBL of 1052 BBL, 637 BLWTR.
- 10/25/00 SITP 50 psi, SICP 0 psi. Bled down. RU swab, FL @ 100', 10% oil, go 1000' below fluid. 2nd run FL 500', 2% oil. 3rd run FL 800', 100% wtr. 4th run FL 1100'. 5th & 6th runs FL 1400' & 1800', 100% wtr. 7th - 10th runs, FL 2300', 100% wtr. 11th run FL 2300' 10% oil. 12th-17th runs, FL 2400', 10% oil, strong gas blow. 18th run FL 2600', 15% oil, strong gas blow. Made