orp Energy Company

# Current Schematic

ell Name: MARX FEDERAL #1

| API / UWI | Surface Legal Location | Field Name | License No. | State/Province | Well Configuration Type |
|---|---|---|---|---|---|
| 3004511898 | 020-030N-011W-P | DK | | NEW MEXICO | Vertical |

| Ground Elevation (ft) | Original KB/RT Elevation (ft) | KB-Ground Distance (ft) | KB-Casing Flange Distance (ft) | KB-Tubing Hanger Distance (ft) |
|---|---|---|---|---|
| 5,786.00 | 5,798.00 | 12.00 | 5,786.00 | 5,788.00 |

Vertical, Original Hole, 8/27/2018 2:33:23 PM

| MD (ftKB) | TVD (ftKB) | Vertical schematic (actual) |
|---|---|---|
| 10.2 | | Tubing Hanger; 7 in; 10.0 ftKB; 10.7 ftKB |
| 10.8 | | |
| 12.1 | | Cement; 12.0-311.0; 1/11/1967; Cemented w/ 175 sxs reg cmt. Circ cmt. |
| 290.0 | | |
| 310.0 | | |
| 311.0 | | 1; Surface; 8.63 in; 8.10 in; 12.0 ftKB; Adjusted 13' KB to Prod 12' KB.; 311.0 ftKB |
| 312.0 | | Cement; 290.0-2,314.0; 1/21/1967; 3rd stg: 500 sxs 50/50 pozmix Class C cmt thru DV tool @ 2307'. TOC @ 290' by CBL (6/19/18) |
| 1,824.1 | | KIRTLAND (final) |
| 2,078.1 | | PICTURED CLIFFS (final) |
| 2,210.0 | | LEWIS (final) |
| 2,307.1 | | DV Tool @ 2307' |
| 2,308.7 | | |
| 2,314.0 | | |
| 2,862.9 | | Herfanito Benonite (final) |
| 3,069.9 | | Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 10.7 ftKB; 6,664.4 ftKB |
| 3,710.0 | | Cement; 3,070.0-4,870.0; 1/21/1967; 2nd Stg: 250 sxs 50/50 pozmix Class C cmt thru DV tool @ 4824'. TOC @ 3070' by CBL (6/19/18) |
| 3,883.9 | | MENEFEE (final) |
| 4,034.1 | | Perf; 4,034.0-4,488.0; 7/19/2018 |
| 4,146.0 | | PERF - MENEFEE; 4,146.0-4,392.0; 7/20/2018 |
| 4,378.9 | | POINT |
| 4,392.1 | | Hydraulic Frac; 8/14/2018; BROKE DOWN WELL WITH WATER AND 1000 GAL 15% HCL. FOAM FRAC'D MESAVERDE WITH 300,500 LBS 20/40 AND 72,293 GAL SLICKWATER AND 2.54 MILLION SCF N2. 70 QUALITY. AVG RATE = 55 BPM, AVG PSI = 4611. ISIP WAS 2200 PSI (FOAM FLUSH). DROPPED 15 BIO-BALLS WITH 1/2 OF SAND PUMPED. |
| 4,434.1 | | |
| 4,487.9 | | PERF - POINT LOOKOUT; 4,434.0-4,662.0; 7/20/2018 |
| 4,662.1 | | |
| 4,750.0 | | MANCOS (final) |
| 4,824.1 | | DV Tool @ 4824' |
| 4,825.8 | | |
| 4,870.1 | | |
| 5,215.9 | | |
| 5,683.1 | | GALLUP (final) |
| 6,415.0 | | GREENHORN (final) |
| 6,487.9 | | GRANEROS SHALE (final) |
| 6,549.9 | | GRANEROS SAND (final) |
| 6,556.1 | | PERF - DAKOTA; 6,556.0-6,628.0; 2/14/1967 |
| 6,604.0 | | DAKO TUBING PERFS; 6,646.0; 8/31/2015 |
| 6,628.0 | | Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 6,664.3 ftKB; 6,666.4 ftKB |
| 6,645.0 | | |
| 6,646.0 | | PERF - DAKOTA; 6,646.0-6,718.0; 2/13/1967 |
| 6,664.4 | | Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 6,666.4 ftKB; 6,698.9 ftKB |
| 6,666.3 | | |
| 6,698.8 | | Seating Nipple; 2 3/8 in; 6,698.9 ftKB; 6,700.1 ftKB |
| 6,700.1 | | Expendable Check (MS Cut); 2 3/8 in; 6,700.1 ftKB; 6,700.9 ftKB |
| 6,700.8 | | |
| 6,717.8 | | |
| 6,734.9 | | |
| 6,757.5 | | 2; Production1; 4 1/2 in; 4.05 in; 12.0 ftKB; J-55 10.5 # STEC; 6,760.0 ftKB |
| 6,759.8 | | |

Cement; 5,216.0-6,760.0; 1/21/1967; 1st Stg: 175 sxs 50/50 pozmix followed by 100 sxs reg. cmt. TOC @ 5216' by CBL (6/19/18)

Fracture; 2/14/1967; Frac w/ 34,340 G treat water & 25,000# 20/40 & 9,400# 10/20 sd.

Fracture; 2/13/1967; Frac w/ 44,150 G treat water & 25,000# 20/40 & 8,000# 10/20 sd.

Cement (plug); 6,735.0-6,760.0; 1/21/1967; 1st Stg: 175 sxs 50/50 pozmix followed by 100 sxs reg. cmt. TOC @ 5216' by CBL (6/19/18)

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DISTRICT III