

HALE FEDERAL #1
J. C. RYAN & C. C. MALONEY
LEA COUNTY, NEW MEXICO

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- 12/22/82 Day 17, drlg, 7384'-7848', made 464', drlg through lime and sand.
- 12/23/82 Day 18, drlg at 8288', drlg from 7848-8288', 440', through lime and sand, at 8088' dev of $\frac{1}{2}^{\circ}$, bit #6 7-7/8" Hughes, J-55, drld 1365' in 66 hrs, drlg w/45m weight, at 46 rpm, MW FW 8.5, Visc. 28, ph 9.5, pump liner 5 $\frac{1}{2}$ " 18", pp 1700 psi, csg 8-5/8", cmt at 3700'.
- 12/24/82 Day 19, trip for DST #1, drlg from 8288-8589', made 301', lime and sand, Bit #6, WOB 45m lbs, MW 8.5, Visc. 28, ph 9.5, FW.
- 12/25/82 Day 20, drlg from 8589-8645', 56', lime and sand, WOB 45m lbs, MW 8.5, Visc. 29, ph 9.5,
- 12/26/82 Day 21, now in the hole for DST #2, drlg 8645'-8867', 222', lime and sand, 45m lbs WOB, drlg w/FW, MW 8.5, Visc. 28, ph 9.5.
DST #2 Bone Springs, rec 7354' of formation wtr, no gas to surface, ISIP 60" 3522 psi, IFP 2826, FFP 3468, FSIP 120" 3522, BHT 131 F,
- NOTE:
- ✓ DST #1 run 12/25/82 Day 20. 8465-8587', rec 348' DF, 100' of free oil, ISIP 60" 2361 psi, FSIP 120" 3270, BHT 123 $^{\circ}$ F. Sample chamber rec. 1600 cc's oil & 300 cc's DF @ 100# sq. in.
- 12/27/82 Day 22, drlg 8867-9077', made 210', lime and sand, 45m lbs WOB, drlg w/FW MW 8.5, Visc. 28, ph 9.5.
- 12/28/82 Day 23, drlg, 9077-9459', made 382', 24 hrs drlg, 1 hr other, lime and sand, MW 8.5 FW, Visc. 28, ph 9.0, bit #7 7-7/8" Hughes J-55, WOB 45m lbs, displace w/10# brine at 9500'.
- 12/29/82 Day 24, drlg, from 9459-9708', made 249', lime and sand, bit #7, making a trip to change bits this AM, drlg w/brine 10#, Visc. 29, ph 9.5, WOB 45m.
- 12/30/82 Day 25, trip out of hole for DST #3, drlg from 9708-9886', made 178', lime and sand, bit #8 7-7/8" Hughes J-55, drlg w/45mlbs WOB, brine wtr, 9.9#, Visc. 29, ph 9.5, drlg break 9816-9829', 9837-9857'.
- 12/31/82 ✓ Day 26, drlg @ 9951', lime and shale, DST #3: 9800'-9886', Wolfcamp, recov. 2304' of formation wtr w/trace of oil in top 30' (don't have pressures now, will give Monday).
- 1/1/83 Day 27, drld from 9951'-10,365', 414', lime & shale, bit #8 7-7/8" Hughes J-55, in @ 9709', WOB 45m lbs, MW 9.9, Visc. 28, ph 9.5.
- 1/2/83 Day 28, drld from 10,365-10,735', 370', lime & shale, WOB 45m lbs, MW 9.9, Visc. 28, ph 9.5.
- 1/3/83 Day 29, POH for trip to change bit, drld from 10,735-11,024', 289', lime & shale, bit OOH at 11,024', made 1315', in 79 $\frac{1}{2}$ hrs, MW 9.9, Visc. 28, ph 9.5.