McKay-Shell Federal %'1 NW SW Section 3-19S-32E Lea County, New Mexico

12/06 9925' preparing to run DST #3. 145' progress. MW 9.8, Vis 31, WL 15.

12/07 9925' trip. MW 9.9, Vis 31, WL 13. DST #3 9877-9925, 5/8" BHC, 1" SC, Op 15", SI 60", Op 134", SI 98", GTS/7", 1.9 MMCFPD @ 60# in 10", 1.6 MMCFPD in 15", Gas 8# to TSTM in 50" on 2nd flow. Rec 15' oil, 60' wtr. Rev out 8009' VHGCO & wtr emulsion, 30% oil, 70% wtr. MFE 2.8 cf, 390 cc oil, 1510 cc wtr, 108,000 Cl, Res. 0.1 @ 68° F, drilling fluid 135,000 Cl, Res. 0.1 @ 56° F. HH 5052-5052, IFP 1060-2086, FFP 2086-3354, SIP 3607 (bldg) -3632 (bldg.)

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- 12/08 9970' POH. MW 9.7, Vis 31, W1 13. <u>DST #4 9938-9970</u>, Op 10, SI 60, Op 90, SI 90, GTS/20", TSTM. Rev. out 7500' sli oil heavy GC drilling fluid.
- 12/09 10,040' drlg., 1m. DST #4, ISIP 3784, IFP 1174-2289, FFP 2441-3772, FSIP 3784. BHT 142°, MFE Rec. 2450 cc drlg fluid & 110,000 ppm Cl. Res. 0.14 @ 58° + .1 cf gas @ 75 psi.
- 12/10 10,233' drlg, 1m. 193' progress. MW 9.3, Vis 31, WL 17, pH 8.
- 12/11 10,426' 1m, sh, & sd. 193' progress. MW 9.2, Vis 30, WL 18, pH 9.
- 12/12 10,458' testing. 32' progress.
- 12/13 10496' drlg., lm. & sh. De. 2° at 10450'.
- 12/14 10671' drlg., 1m. & sh.

12/15 10816' drlg., lm. & sh. DST #5, 10424' - 10458', Op 15" = SI 90", Op 120" - GI 240" - GTO / 8", incr to 925 MGFTD in 15", decr throughout 2nd flow, dropped bars, circ valves would not open. Ran Dia - Log. perf 2 holes @ 9230' tools stuck, pulled loose. Circ out
20 bbls oil. Pulled out of hole. Top circ sleeve plugged w/LCM 14th DC off bottom also plugged, pressure trapped below. Total Recovery 25 BO, MFE recov. 3.6 c.f. gas at 100# 1100 CC oil 42 API, BHT 149° F.

HH 5065 - 5065, IF 287 - 313, ISI 2442, FF 287 - 794, FSI 1935.