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Amarillo-Gulf "11" No. 1 - Drill Stem Test Summary

- 6-24-73 DST # 1, 4150-4209'. Tool open initially 15 mins., GTS in 9 mins. - TSTM. SI 1 hr., gas blow diminished. Reopened 1½ hrs. w/good blow. SI 3 hrs., pulled test tool. Recovered 210' of black 30 deg. API 0 60 deg. oil, & 120' formation water cut with drlg. water. Top water sample - 4950 PPM NaCl, bottom water sample - 11,550 PPM NaCl, pit water - 1650 PPM NaCl. IHP 1795, Preflow & ISIP - failed to record, IFP 115, FFP 149 in 90 mins., FSIP 1082 in 180 mins. & building slowly, FHP 1795.
- DST # 2, 9320-9374'. Opened test tool for 20 mins. w/weak blow increasing to good blow. SI 1½ hrs. Reopened w/weak blow inc. now & continuing test. Tool open 2 hrs. w/weak blow increasing to fair, continued steady throughout test. Shut in 4 hrs. Recovered 3400' of gas in drill pipe, and 5380' of salt water with sulphur odor. Chlorides 64,000 PPM, drilling fluid chlorides 15,000 PPM. IHP 4190, PFP 203 to 679, ISIP 3712 in 1½ hrs., IFP 748, FFP 2528, FSIP 3712 in 4 hrs., FHP 4190.
- 7-25 Corrected T.D. 11,259'. Ran DST # 3, 10,994-11,036', straddle test in morrow. Recovered 6710' slightly gas cut formation water & 472' slightly gascut & water cut drlg. mud. Pulled & cleaned test tool. Now in hole prep to run DST # 4, 10,862'-10,913'. Details for DST # 3 Tool open for 10 mins. w/weak blow increasing to good blow with GTS in 2 hrs. SI 1½ hrs. Recovered 6710' slightly gas cut formation water & 472' slightly gas cut and water cut drlg. mud. IHP 5314, PFP 366, at end of 10 mins. 1000, ISIP 4394 (1 hr.), IFP 3141 in 150 mins., FSIP 4394 in 90 mins., FHP 5177. Preliminary test of water in PPM of NaCl: Top of fluid 18,500, mid-point 31,000, top of drill collar 31,000, top of test tool 35,000. Spent 1½ hr. finishing logging and 22½ hrs. running drill stem tests.
- 7-26 T.D. 11,259'. Pulling test tool after running DST # 6. DST # 4, 5, & 6 were consecutive straddle packer tests without pulling tool. DST # 4 straddle test, 10,862'-10,913'. Tool open w/very weak blow increasing to good blow in 5 mins. Initial opening 10 mins., SI 1 hr., reopened tool w/weak blow increasing immediately to very good blow. Put on ½" choke to pit with no surface pressure, blows started decreasing after 45 mins., dead after 90 mins. SI tool for 3 hrs., no gas to surface. IHP 5549, 10 min. IPF - 126, FPF - 126 after 10 mins., ISIP 1104 after 60 mins., IFP 95 & FFP 95 in 90 mins., FSIP 4171 after 1S0 mins., FHP 5253.

