RECORD OF DRILL STEM TESTS

5-16-50

DST. #1 from 4095' to 4150', 1-7" OD. Packer & Safety joint, 3½" Mod. D.P., 4½" H-90 D.C. Packer set at 4095', per . from 4096' to 4097' to 4147', 5/8" Bottom & 1" Top chokes, tool open at 7:05 AM With strong blow of air which gradually decreased to weak blow at end of test. Closed tool at 11:05 AM for ¼ hr. BUP. Rec. 2590' of Slightly gas cut salt water. No oil shows. Howco. Hydro. press. in 2150# out 2150#, initial F.P. 0# final 1200#, no BUP. Amerada Hydro. press. in 2085# out 1975#, initial flow press. 55# final 1190#, No BUP.

7-14-50

DST. #2 from 8569' to 8660' with 2-7" OD Packers and Safety joint, on 3½" Mod. D.P. and 4" H-90 D.C. Set packer three times at 7:15, 7:25 & 7:40 P.M. and failed, packers were set at 8561' & 8569', Rec. 630' Ø mud, Howco . Hydro. in 4825# out 4700# B.T. Chart Hydro. in 4975# out 4815#

7-15-50

DST #3 from 8550' to 8660', 2-7" OD Packers & Safety joint on 3½" Mod. D.P. & 4" H-90 D.C. Packers set at 8542' & 8550', 5/8" bottom & 1" Top chokes, perf. from 8550' to 51' & 8644' to 8657', Opened tool at 2:45 PM and packer leaked. Closed & re-opened tool at 2:50 PM W/Slight blow air for 20 mins. & died, let set 1 Hr. Closed & re-opened tool at 4:10 PM, W/few bubbles for 3 mins. & died. closed tool at 4:30 PM for ¼ Hr. BUP. (1 hr and 40 mins. test.) Rec. 420' Ø mud W/no shows of oil or gas. Howco. Chart in 4800# out 4725#, initial F.P. 900# final 1100#, no buil up, Amerada Hydro in 4865# out 4815#, Initial F.P. 215# final 215# No build up.

7-21-50

BST. #4 from 8750' to 8982', 2-7" OD Packers & Safety joint & Bowen Jars, W/1" I.D. bore on 3½" Mod. D.P. & 4½" H-90 D.C. Packers set at 8743' & 8750', perf. from 8750' to 8765' & from 8970' to 8979' on 5/8" Bottom & 1" Top chokes, opend tool at 11:25 PM. W/lig ht blow air, decreasing to very slight blow at end of 4 hrs. Closed tool at 3:25 AM for ¼ hr. BUP. Rec. 115' Ø mud, no oil, water or gas. Howco. Hydro . press. in 4975# out 4950#, I.F.P. 325# F.F.P. 325#, ¼ hr. BUP 0#, Amerada Hydro. in 4900# out 4870#, I.F.P. 60#, final 60#, ¼ hr. BUP. 140#

9-17-50

DST. #5 from 11018' to 11045', 2-7" OD packers, & Safety joint, 2000' water blanket, packers at 11018' & 11010', 3½" Mod D.P. Perf. from 11019' to 11041' on 5/8" bottom & 1" top chokes, opened tool at 11:35 PM. W/strong blow of air, which continued for 4 hrs., gradually decreasing to weak blow at end of test. Closed tool at 3:35 AM for ¼ hr. BUP. Pulled 1840' D.P. , recovered 2000' water blanket, 7178' of Salty Sulphur water, now show of oil or gas. Howco. Hydro. in 6000# out 5850#, I.F.P. 3825# final 4350#, ¼ hr. BUP failed. Amerada Hydro. in 6065# out 5825#, I.F.P. 1115# final 4195#, ¼ hr. BUP 4340# .

9-26-50

DST. #6 from 11300' to 11395#, 2-7" OD Packers & Safety joint, 3½" Mod. D.P. & H-90 D.C. Packers set at 11294' & 11300' Perf. from 11301' to 11306' & 11368' to 11392' , 5/8" Bottom & 1" top chokes, Opend tool at 2:25 AM. (2400' Water Blanket) W/strong blow of air, gradually decreasing to very light blow at 5:00 A.M. Closed tool at 6:25 AM.

9-30-50

DST #7, from 11467' to 11534', 2-7" OD Packers & Safety Joint on 3½" Mod. D.P. & 5½" H-90 D.C. 2540' Water blanket, Packers at 11461' & 11467', Perf. 11468' to 69' & 11502' to 31' 5/8" bottom & 1" Top chokes. Opened tool at 2:44 AM. W/Very Weak blow for 30 mins. & died, left tool open 1 hr.. Closed & Re-opened tool, got very few bubbles, closed tool at 4:30 A.M. for ¼ hr. BUP. Rec. 2540' Water Blanket, 350' Slightly gas & water cut mud, very little Sulphur gas, no trace of oil, Howco. Hydro. in 6200# out 6100#, I.F.P. 4000# final 3200#, ¼ hr. BUP. 3300# Amerada Chart Hydro. in 6050# out 6065#, I.F.P. 1240# final 1455#, ¼ hr. BUP. 2910#