

DST #13, from 8540' to 8735', tool open 4 hrs with fair blow for 20 mins and weak blow remainder of test, No gas or oil to surface. Rec 540' DM, 30-MISI-3905, HI-3905, HO-3905, 30-MFSI-3045, IF-330, FF-460, T-125. Job complete 6:30 A.M., 8-13-59.

Core #6, from 9195' to 9220', rec 25' lime and sand, 100% recovery.

DST #14, from 9480' to 9620', tool open 3 hrs with weak blow of air increasing to fair blow thruout test, no show of oil or gas to surface. Rec 120' of heavy oil cut DM, no wtr, 30-MISI-310, HI-4340, HO-4325, 30-MFSI-315, IF-110, FF-125, T-136, Job complete 7:00 A.M., 8-24-59.

DST #15, from 9960' to 10,160', tool open 30 mins with weak blow of air for 3 min & died, no show of gas or oil, rec 50' DM, 30-MISI-270, IF-240, FF-255, 30-MFSI-255, HI-4595, HO-4555, T-135, Job complete 11:30 A.M., 8-30-59.

DST #16, from 10,520' to 10,634', tool open 2 hrs with good blow of air thruout test. Rec 640' O&GDM. 30-MISI-no record, IF-1250, FF-260, 30-MFSI-4410, HI-4975, HO-4975, T-147, Job complete 3:15 P.M., 9-6-59.

DST #17, from 12,395' to 12,436', tool open 45 mins with few bubbles air and died. Rec 3000' WB & 30' DM. No show, 30-MISI-1970, IF-1496, FF-1496, 30-MFSI-1685, HI-6085, HO-6085, T-145, Job complete 4:00 P.M., 10-2-59.

Ran 11,400' of 7" O.D. casing and cemented at 11,422' with 325 sx 2% gel and 200 sx slow set cement 1st stage, 125 sx 2% gel 2nd stage. Top of cement by temperature survey 7,775', Plug at 8,715', Tested before and after drilling plug with 1500 PSI for 30 minutes. Tested O.K. Job complete 6:00 A.M., 10-27-59.

Ran cementon & Gamma Ray Neutron logs, top of cement at 9560', October 28, 1959.

Core #7, from 13,112' to 13,136', Rec 24', 9' dolo & lime and 15' black shale, 100% rec.

Core #8, from 13,136' to 13,181', rec 40½' black shale & 4½' hard sand, 100% recovery.

Core #9, from 13,181' to 13,207', Rec 26' sand & shale, 100% recovery.

Core #10, from 13,207' to 13,209'. Failure.

Core #11, from 13,209' to 13,254', rec 41' sand & shale, no show, 100% recovery.

Core #12, from 13,254' to 13,279', rec 25' sand & shale, no show, 100% recovery.

Core #13, from 13,279' to 13,293', rec 11½' sand & shale, no show 100% recovery.

Core #14, from 13,293' to 13,294', no recovery.

Core #15, from 13,294' to 13,296', rec 3¼" sand, 10% recovery.

Core #16, from 13,319' to 13,358', rec 36' lime & sand, 92% recovery.

Core #17, from 13,358' to 13,387', rec 29' lime & shale, 100% recovery.

Set whipstock at 14,555', unable to work.

Ran electric logs from 11,422' to 14,753', March 3, 1960.

Tested 7" O.D. casing with 4000 PSI from surface to 11,704' for 30 minutes. Tested O.K. Ran 3420' of 5" O.D. flush joint liner, and hung in 7" O.D. casing at 11,304' and set at 14,724'. Cemented with 400 sx 2% gel slosset. Plug at 14,722'. Ran temperature survey. Found top of cement at 11,740'. Cement top of liner with 200 sx slosset cement. Tested liner with 2000 PSI for 30 minutes with 2000 PSI. Tested O.K. Job complete 1:30 P.M., March 9, 1960.

DST #18, from 14,724' to 14,775', tool open 3 hrs with good blow of air thruout test. Rec 1740' HGDM, 30-MISI-7000, IF-1700, HI-6700, 30-MFSI-5225, FF-1990, HO-6600, T-208, Job complete 5:30 P.M., 3-11-60.

DST #19, Misrun, packer failure.

DST #20, from 14,724' to 14,816', tool open 5 hrs & 15 mins, good blow of air thruout test. Rec 720' DM & 180' brackish wtr, 30-MISI-4615, IF-1600, HI-6800, T-208, 30 MFSI-2870, FF-1890, HO-6700, Job complete 6:30 A.M., March 14, 1960.

Ran radio activity logs, March 14, 1960.