

UNION OIL COMPANY OF CALIFORNIA - STATE No. 1-33

CORE AND D.S.T. DATA

DRILL STEM TESTS

D.S.T. No. 1: 9482-9555' Tool open 2 hours with good blow of air throughout test. Recovered 180' of heavily oil and gas cut mud and 240' of oil.

D.S.T. No. 2: 9742-9780' Tool open 1½ hours with no surface air blow. Recovered 10' drilling mud.

D.S.T. No. 3: 9798-9856' Tool open 2 hours and 10 minutes; gas to surface in 5 minutes, mud in 51 minutes, and oil in 53 minutes. Flowed 1 hour and 20 minutes at rate of 20 barrels of oil per hour, ½" surface choke, 5/8" bottom choke. F.P.: 290#.

D.S.T. No. 4: 9862-9945' Tool open 1 hour and 35 minutes; gas to surface in 5 minutes, oil in 15 minutes, flowed 18 barrels of oil per 35 minutes, 5/8" choke, F.P. 100-900#. Reversed out 98 barrels 42° Gr. oil, no water.

D.S.T. No. 5: 9948-9988' Tool open 2 hours and 36 minutes with mud to surface in 23 minutes and oil in 26 minutes. Flowed 64 barrels of oil in 2 hours through 24/64" choke. F.P. 980-1135#. Reversed out 96 barrels of oil and 2 barrels of mud cut oil.

D.S.T. No. 6: 9988-10,039' Tool open 2 hours; gas (TSTM) to surface in 41 minutes. Reversed out approximately 3375' of fluid, 36 barrels of oil, cut 15% water, and 12 barrels of salt water.

D.S.T. No. 7: 10148-10,161' Tool open 2 hours. Recovered 150' salt water.

D.S.T. No. 8: 10906-11,012' Tool open 2 hours with no surface blow. Recovered 110' of gas in drill pipe and 40' heavily oil cut mud.

D.S.T. No. 9: 11276-11,313' Tool open 2 hours with no surface blow. Recovered 10' of drilling mud.

D.S.T. No. 10: 13483-13502' Tool open 4 hours. Recovered 250' of gas cut mud and 6600' of gas cut salt water.

CORE DATA

Core No. 1: 9856-9903' Recovered 38.5' with closed fractures with show 9856.5' - 9869'.

Core No. 2: 9910-9945' Recovered 22' lime with vuggy porosity with fair to good show of oil.

Core No. 3: 9945-9948' Recovered 43' including 34.5' of lime with good to fair show with the entire core being vertically fractured.

Core No. 4: 9988-10,039' Recovered 51' with oil and gas shows from 9990.5-9993' and 10,004-10,007'.

Core No. 5: 13,470-13,502' Recovered 15' of shale and 13' of dolomite with vuggy porosity with spotty fluorescence.