

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

CORE AND D.S.T. DATA - MAY, 1960

DRILL STEM TESTS

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

D.S.T. No. 2: 9742-9780' Tool open 1-1/2 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 bbls. oil per hour, 1/2" surface choke, 5/8" bottom choke. FP: 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 bbls. oil per 35 minutes, 5/8" choke, FP: 100-900#. Reversed out 98 bbls. 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 bbls. oil in 2 hours through 2 1/2" choke. FP: 980-1135# Reversed out 96 bbls. oil and 2 bbls. 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 feet of fluid, 36 bbls. of oil, cut 15% water and 12 bbls. of salt water.

D.S.T. No. 7: 10,148-10,161' Tool open 2 hours. Recovered 150' salt water.

D.S.T. No. 8: 10,906-11,012' Tool open 2 hours with no surface blow. Recovered 110' gas in drill pipe and 40' heavily oil-cut mud.

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'.