

ATTACHMENT

AMTAC OIL & GAS COMPANY AND DELHI-TAYLOR OIL CORP. State LW #1

Drill Stem Tests

DST #1 - August 6, 1956; Interval from 9620 feet to 9675 feet; Tool open for 2 1/2 hours; Gas to surface in 11 minutes; Mud to surface in 27 minutes; Flow rates as follows:

- End of 1 hour flowing mud, oil, and water at 30 bbl/hour.
- End of 1 1/2 hours flowing 70% oil and 30% salt water at a rate of 24.5 bbl/hour.
- End of 2 hours flowing 50% oil and 50% water at a rate of 21.5 bbl/hour.
- End of 2 1/2 hours flowing 50% oil and 50% water at a rate of 20 bbl/hour.

Initial Flowing Pressure, 1793 psi; Final Flowing Pressure, 3394 psi; 30 minute Shut-in Pressure 3474 psi.

DST #2 - August 7, 1956; Interval from 9663 feet to 9675 feet; Tool open for 2 hours and 45 minutes; Gas to surface in 8 minutes; Fluid to surface in 1 hour. Final flowing rate of 25 bbl/hour with 40% being oil and 60% water. Initial Flowing Pressure 1843 psi; Final Flowing Pressure 3175 psi; 30 minute Shut-in Pressure 3389 psi.

Completion Procedure

The section from 9806 feet to 9812 feet was perforated, and only water was swabbed. That section was plugged off, and the casing perforated from 9653 feet to 9690 feet. The fluid produced from that zone was a mixture of oil and water, so it was squeezed with 35 sacks of slow set cement. Then the well was perforated from 9661 feet to 9676 feet, and water continued to be produced with the oil. Another squeeze job was performed, using 40 sacks and the casing re-perforated from 9655 feet to 9665 feet. The well continued to produce salt water, but the percentage of oil was high enough that it was felt feasible to continue producing the well without further squeezing operations.