DRILL STEN TESTS

L.W.Ward #1

- DST No.1 From 9425' to 9648', no test. Opened tool at 9:12 P.M. Packers failed to hold Re-set tool 3 times and packers failed to hold. Came out of hole with test tool and found circulating sub broken. Left 1/3 of upper rubber and pieces of lower packer in hole. Recovered 465' of drilling mud below circulating sub.
- DST No.2 From 9417' to 9640', 5 Hr. and 24 Min.Test, 4-1/2" drill pipe, 5/8" bottom and 1" top choke, used 501' water blanket. Opened tool at 3:36 P.M. with fair blow of air. Gas to suface in 20 Min. Gas Vol. at 5:00 P.M. 60,300 cu.ft. per day, at 6:00 P.M. 38,400 cu. ft. per day., at 7:00 P.M. 21,900 cu. ft. per day. Estimated 21, 900 cu. ft. per day through out test. Fluid to surface in 3 Hr. & 46 Min. Unloaded water and blanket and mud to pits for 38 Min. Turned to tanks at 8:00 P.M. Flowed \$2.52 Bbls. 011, 3.05 Bbls. BS & Mud, No water in one hour. Flowing pressure 105#, Gravity 41.2 Corrected. Reversed out 64.19 Bbls. 011 cut 10.6% BS,7% Mud and 6% water. Recovered 30' oil cut 2.5% BS& Mud and 5% water from above tool. Closed tool at 9:00 P.M.
- DST No.3 From 9640' to 9724', 1 Hr. and 37 Min. test, 4-1/2" drill pipe, 5-/8" Bottom and 1" top choke. Used 585' water blanket. Opened tool at 3:10 A.M. with good blow of air which gradually deminished and died at 3:47 A.M. Closed tool at 4:47 A.M. Recovered 8893' dry pipe, 313' water blanket cut 15 oil 219' drilling mud cut with slight trace oil. Est. 15 oil, gas and water cut, Est. 30 water. Water will turn coin.
- DST No.4 From 10, 821' to 10,950', 4-1/2" drill pipe, 5/8" bottom and 1" top choke. Used 1815' water blanket. Opened toel at 7:43 A.M. with weak blow of air which died at 8:35 A.M. Closed tool at 9:35 A.M. Recovered 8765' dry pipe, 62' mad cut with Est. 3% Oil 17755 water blanket cut with gas, 218' mad cut with Est. 1% Oil and Gas.
- DST No.5 From 11,828' to 11,890', 4 Hr. test, 4-1/2" drill pipe 5-/8" bottom and 1" top chokes, used 2759' water blanket. Opened tool at 3:16 P.M. with weak blow of air, increasing to fair blow at 4:00 P.M. Closed tool at 7:16 P.M. Rec. 6882' dry pipe, 3069' oil cut 35% water blanket, 930' water blanket with 20% mud trace of oil, Est. 1% Oil, and 935' water blanket.