

November 27, 1951

Well: Elliott #1

Location: 660' from south line and 660' from west line, Section 1, SW $\frac{1}{4}$ , T21S, R-37E, NMPM, N.M., Lea County, New Mexico.

Subject: Drill Stem Tests

D.S.T. #1: Zone 4130-4194'.

Sep 22, 51

5/8" x 1" choke. Recovered 30' drilling mud. No shows. Tool open 30 minutes with slight blow for 3 minutes and died. Unseated packer and opened for additional 20 minutes w/slight blow for 2 minutes and died. Shut in for 15 minutes for pressure build-up. BHFP 0#, BHSIP 0#, Hydrostatic 2350#. Test OK, tool did not plug.

D.S.T. #2 Zone 4192-4248'.

Sep 22, 51

5/8" x 1" choke. Open one hour 15 minutes with good blow for 1 hour. Slightly decreasing at last. Shut-in 20 minutes for pressure build-up. Recovered 100' slightly oil cut mud (oil was black and dead), 90' brackish sulphur water cut mud and 180' brackish sulphur water. BHFP 0# up to 100#, BHSIP 1325#. Hydrostatic head 2150#

D.S.T. #3:  
Oct 2, 51

Zone 5330-5370'. Tool open 1 hour 15 minutes. Recovered 105' slightly oil cut mud with small amount of dead, black oil on top of test. No gas. BHFP 0#. 15 minutes BHSIP 800#. Hydrostatic head pressure 2100#.

D.S.T. #4:  
Oct 3, 51

Zone 5397-5502'. Tool open 1 1/2 hours. Very strong blow for 1 hour, slightly decreasing last 30 minutes. Recovered 240' heavily oil and gas cut drilling mud. Hydrostatic head pressure 2925#, flow pressure 125#. Shut in 15 minutes for build-up, no reading. Now going in hole to drill ahead. Good permeability 5408-5502'.

D.S.T. #5:  
Oct 8, 51

Zone 5800-5893'. Tool open 1 1/2 hours, strong blow throughout test. Gas to surface in 7 minutes. Recovered 825' fluid, top 60' oil cut mud, 675' clean oil and 90' drilling mud on bottom of test. BHFP 425#. 15 minutes shut-in, BHSIP 2325#. Hydrostatic head pressure 3325#. Chlorides in mud 5000 P.P.M. Top of Clearfork 5790'.

D.S.T. #6:  
Oct 9, 51

Zone 5893-5954'. Open 1 hour, light decreasing blow throughout test. Recovered 65' oil cut mud. BHFP 0#, BHSIP 0#, Hydrostatic head pressure 3375#.

D.S.T. #7:  
Oct 12, 51

Zone 6185-6240'. Slight blow, slowly decreasing. Dead at end of 1 hour. Falled out of hole. Recovered 20' of drilling mud. No pressures.

D.S.T. #8:  
Oct 23, 51

Zone 6808-6912'. Tool open 45 minutes. Slight blow diminishing for 10 minutes to 0#. 15 minutes shut-in for pressure build-up. Recovered 20' of drilling mud with slight gaseous smell. BHSIP 0#. Hydrostatic head pressure 3525#.

