

RECORD OF DRILL STEM TESTS

- 1-6,7-48 7981' Total Depth, Ran DST with packer set at 7957', 5/8" bottom and 1" top chokes, perforations: 7958'-7978'. Tool open at 9:40PM with light blow of air that decreased to very slight blow of air at end of 4hr. test. Tool closed at 1:40AM for 15 min build up. Recovered 15' oil, 90' oil cut mud. Flow press. 0#, Hydro press 3790#, 15 min. build up pressure 0#. Amerada Bomb: Hydro in 3750#, hydro out 3725#, flow 50#, build up 50#.
- 1-7-48 8001' Total Depth, Ran DST with 2 packers set at 7973' and 7980', 5/8" bottom and 1" top chokes. Perforations 7981'-7998'. Tool open at 7:10PM with very slight blow of air immediately that continued throughout 4 hr. test. Tool closed at 11:10PM for 15 min build. Recovered 590' sulphur water, no oil, no gas. Hydro press. 3750#, flow press 210#, 15 min build up pressure. 3100#.
- 1-8-48 8570' Total Depth, Ran DST with packer set at 8553', 5/8" bottom and 3/8" top chokes, perforations: 8554'-8567'. Tool open at 12:02AM with good blow of air immediately. Gas in 6 mins. Gas decreased rapidly the first hour and was a very slight blow at end of 4 hour test. Tool closed at 4:02AM for 15 min. build up. Recovered 40' of oil and gas cut mud and 5 gallons of heavy oil. Hydro press. 4150# and out 4190#, flow press. 200# dropping to 50#; no build up pressure. Amerada Bomb: Hydro in-4050#, out 4035#, flow 95# dropped to 50#, no build up pressure.
- 1-21-48 8601' Total Depth. Ran DST with packer set at 8570', perforations: 8571'-8598', 5/8" bottom and 1" top chokes. Tool open at 7:29AM with gas to surface in 5 mins. Steady blow at rate of 2,800 cu. ft. per day that decreased slightly at end of 5hr test. Tool closed at 12:45PM. Recovered 282' of oil slightly out with mud, 180' heavy mud cut with oil and gas, 210' of this mud cut with oil and gas and with possible shot of formation water. Hydro press. 3900#, Flow press. 100#, did not take any build up press. Gravity 33.5 corrected.
- 1-22-48 8621' Total Depth, Ran DST with packer set at 8600', perforations: 8601'-8617', 3/8" bottom and 1" top chokes. Tool open at 2PM with very slight blow of air immediately that stopped in 30 mins. No gas. Tool closed at 3:34PM for 15 min. build up pressure. Recovered 30' good drilling mud, 30' discolored mud. Hydro press. 4125#, flow press. 0#, 15 min build up pressure 0#.
- 1-24-48 8690' Total Depth, Ran DST with packer set at 8621', perforations: 8622'-8687', 5/8" bottom and 1" top chokes. Tool open at 7:35PM with light blow of air immediately that stopped in 45 mins. Tool closed at 9:35PM for 15 mins. build up. Recovered 155' drilling mud, 25' black mud and water. Hydro press. 4000#, flow press. 200#, 15 min build up press. 1200#.
- 1-27-48 8785' Total Depth, Ran DST with packer set at 8735', perforations: 8736'-37', 8764'-82', 5/8" bottom and 1" top chokes. Tool open at 5:45PM with very light blow of air for 6 mins. Tool closed and opened at 6:00PM with very light blow of air and also at 6:25PM with same results. Tool closed at 7:45PM for 15 min build up. Recovered 90' mud and 6' sulphur water. Hydro press. 4200#, Flow press. 600# to 50#, 15 min build up press. 2500#
- 3-6-48 10641' Total Depth. Ran DST with packers set at 10579'-10587', perforations from 10588' - 10610', 5/8" bottom and 1" top chokes. Tool open at 4:42PM with good blow of air immediately that gradually decreased to very light blow at end of 1/2 hr. test. Tool closed 8:42PM for 15 min build up. Recovered 225' drilling mud. Hydro press. 4900#, flow press. 150#, 15 min. build up pressure 82#.

REPORT ON THE TESTS

1-1-33

1000' Total Depth, and the air pressure set at 1000', perforation 1000' - 1000'. Top of the 1000' zone was reached at 1000' and the air pressure was set at 1000'. The air pressure was set at 1000' and the air pressure was set at 1000'.

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1000' Total Depth, and the air pressure set at 1000', perforation 1000' - 1000'. Top of the 1000' zone was reached at 1000' and the air pressure was set at 1000'. The air pressure was set at 1000' and the air pressure was set at 1000'.

1-1-33

1000' Total Depth, and the air pressure set at 1000', perforation 1000' - 1000'. Top of the 1000' zone was reached at 1000' and the air pressure was set at 1000'. The air pressure was set at 1000' and the air pressure was set at 1000'.

1-1-33

1000' Total Depth, and the air pressure set at 1000', perforation 1000' - 1000'. Top of the 1000' zone was reached at 1000' and the air pressure was set at 1000'. The air pressure was set at 1000' and the air pressure was set at 1000'.

1-1-33

1000' Total Depth, and the air pressure set at 1000', perforation 1000' - 1000'. Top of the 1000' zone was reached at 1000' and the air pressure was set at 1000'. The air pressure was set at 1000' and the air pressure was set at 1000'.