

SUMMARY OF DRILL STEM TESTS

Lea County, New Mexico
Great Western Drilling Company No. 1 Lowe-State

DST No. 1 11,238-11,396'

15 min. preflow - weak blow of air.

Shut in 1 hour.

Reopened for 3 hours, weak blow air increasing to strong in 5 min., gas to surface in 1 hour 5 min. - too small to measure.

Recovered: 60 ft. oil (Grav. 42° @ 60° F), 30 ft. oil and gas cut mud, 590 ft. mud - slight gas and oil cut.

Sample chamber recovery 1600 cc mud cut oil at 50 psi. Bottom hole temp. - 156° F.

Int. Hyd. Press. 5289 psi.

1st Flow Period IFP 2672 psi, FFP 3182 psi (tool plugged). 1 Hour ISIP 5244 psi.

2nd Flow Period IFP 332 psi, FFP 332 psi (tool plugging).

2 Hour FSIP 1135 psi (pressure building, curve did not break).

Final Hyd. Press. 5289 psi.

DST No. 2 12,423-12,576 (Welex Measurement)

30 Min. preflow, gas to surface 23 min., 280 psi

Surface flowing pressure in 30 min. on 1/4" choke, rate 411, 600 CFGPD.

Shut in 1 hour. Reopened for 2 hours.

Gas rates on 1/4" choke.

30 min. 250 psi. 367,800 CFGPD

60 min. 340 psi. 499,800 CFGPD

90 min. 300 psi. 558,600 CFGPD

120 min. 303 psi. 570,360 CFGPD

Recovered: 1379 feet heavily gas cut mud.

Bottom hole temp. 198° F

Sample chamber recovery:

200 cc condensate and mud. (most of sample lost.) Pressure 250 psi.

Condensate gravity 45° @ 60° F

Int. Hyd. press. 6842 psi.

1st Flow period IFP 829 psi, FFP 995 psi

1 Hour ISIP 6282 psi

2nd Flow Period IFP 663 psi, FFP 1228 psi.

2 Hour FSIP 6282 psi

Final Hyd. Press. 6842 psi