

**PETROLEUM INC.**

Box 280

Liberal, Kansas 67901

Hawkyard #1 - Drilling Report
Elevation Ground Level 2759'
C SW NE
Sec. 15-34S-32W
Seward County, Kansas

8-4-77

Build location; Moving in and rigging up Rotary.

8-5-77

Spudded @ 2:00 a.m., 8-5-77. Drilg. @ 451'.

8-6-77

T.D.P. - 1570'. Prep to run 8 5/8" surface casing.

8-7-77

Set 8 5/8" surface casing @ 1569' w/650 sx Halco Lite,
with 2% cact and 1/4#/bbl flo seal and 150 sx class H common
cement with 3% cact. Cement circulated P.D. 10:15 a.m. 8-6-77.
Drilling @ 1780'.

8-8-77

Drilling @ 2736'.

8-9-77

Drilling @ 3448'.

8-10-77

Drilling @ 4051'.

8-11-77

Drilling @ 4570'.

8-12-77

Drilling @ 4997'

8-13-77

Drilling @ 5358'.

8-14-77

Drilling @ 5618'.

8-15-77

Drilling @ 6006'.

8-16-77

Morrow Sand 5970-80'

Top Chester 5985'

Chester Porosity 6000-15'

DST 5965-6050.

20 min preflow - strong blow, flow pressure - 171# - 329#.
Shut in 40 min. - 1698#, open flow, fair blow - gas. To
surface in 30 min, too small to measure. Flow pressure, 395=-
659#. Final shut in 2 hrs - 1698#. Hydrostatic pressure 3007#-
2994#. Recovered 180' gassy drlg mud and 1095' gassy salt water.

Drilling @ 6087'.

8-17-77

Drilling @ 6360'.

8-18-77

Reached T.D. of 6457'. Started running electric logs.

8-19-77

Finished running electric logs. Straddle D.S.T. #2, Chester
@ 5995' to 6025'. 20 min pre flow, no blow. Initial flow
pressure 86#, final flow pressure 86#. 30 min shut in.
SIP 969#. Initial hydrostatic pressure 2863#, final hydrostatic
pressure 2863#. Recovered 100' drlg mud. No shows.

Straddle DST #3, St. Louis @ 6410' to 6440'. 20 min preflow,
no blow, 30 min shut in. Initial flow pressure, 86#, final

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final flow pressure 86#, SIP 2100#. Initial Hydrostatic pressure 3071#, Final hydrostatic pressure 3071#. Recovered 80 ft drlg mud. No shows.

Straddle DST #4, Lansing @ 4580' to 4610'. 20 min pre flow-weak blow increasing to strong blow. Initial flow pressure 147#, final flow pressure 117#. Initial shut in 45 min. SIP 1342#. Open flow 60 min., weak blow increasing to strong blow. Initial flow pressure 117#, final flow pressure 235#. Final shut in 60 min, 1255#. Initial hydrostatic pressure, 2268#, final hydrostatic pressure 2211#. Recovered 250' slightly oil and gas cut drlg mud and 350' salt water.

Plugged well according to Kansas State Corporation Commission specifications and released drilling rig.

Final report.