

- 12/ 1/62 D 3551', lime. Mud weight, 8.9#; viscosity, 31 sec; filler, 6#; chlorides, 9000 ppm. Oil, 3%. Straight-hole test: 1° at 3193'. Tops: Chase, 2656'; Council Grove, 3022'.
- 12/ 2/62 D 4027', lime. Mud weight, 8.8#; viscosity, 31 sec; water loss, 80 cc. Oil, 5%. Straight-hole test: 3/4° at 4005'.
- 12/ 3/62 D 4358', lime. Mud weight, 8.8#; viscosity, 35 sec; water loss, 68 cc. Oil, 8%. Straight-hole test: 3/4° at 4102'.
- 12/ 4/62 D 4609', lime. Mud weight, 9#; viscosity, 34 sec; water loss, 52 cc; chlorides, 3500 ppm. Oil, 6%. Straight-hole test: 1/2° at 4558'.
- 12/ 5/62 D 4778', lime. Mud weight, 9#; viscosity, 31 sec; water loss, 62 cc; chlorides, 3000 ppm. Oil, 5%. Straight-hole test: 1/2° at 4558'.
- 12/ 6/62 D 5003'. Mud weight, 9.1#; viscosity, 34 sec; water loss, 66 cc; filter cake, 3/32"; chlorides, 2800 ppm. Tops: Lansing, 4376'; Toronto (corrected), 4262'.
- 12/ 7/62 D 5270', lime. Mud weight, 9#; viscosity, 35 sec; water loss, 17 cc; filter cake, 2/32"; chlorides, 2000 ppm. Oil, 5%. Straight-hole test: 1/2° at 4978'. Top: Marmaton, 5002'.
- 12/ 8/62 D 5509', lime. Mud weight, 9.2#; viscosity, 35 sec; water loss, 14.4 cc; filter cake, 2/32"; chlorides, 1400 ppm. Oil, 4%. Tops: Cherokee, 5140'. Show in Marmaton, 5070-5080' (50 additional units of gas). Straight-hole test: 1-1/4° at 5278'.
- 12/ 9/62 D 5753', shale and lime. Mud weight, 9.2#; water loss, 14 cc; chlorides, 1100 ppm. Top: Morrow shale, 5496'.
- 12/10/62 D 5900', lime. Mud weight, 9.4#; viscosity, 40 sec; water loss, 84 cc; chlorides, 1100 ppm. Oil, 2%. Tops: Chester, 5596'; St. Genevieve, 5791'. 125 Unit gas kick, 5464-5473'. Straight-hole test: 1° at 5754'.
- 12/11/62 TD 6046'. REACHED AT _____. Mud weight, 9.2#; viscosity, 52 sec; water loss, 8.4 cc; chlorides, 1000 ppm. Oil, 2%. Top: St. Louis, 5846'. Circulating to run logs.
- 12/12/62 TD 6046'. Ran wire line tests as follows:
Wire Line Test #1: 5558-5560 1/2' - IBHSIP, 1450# (65 mins.)
FBHSIP, 1450# (35 mins.). Tool open 90 mins. Recovered no gas, no condensate, 2300 cc highly fluorescent filtrate water
Schlumberger thinks well may make oil by fracing.

Wire Line Test #2: 5069-5071 $\frac{1}{2}$ ' - IBHSIP, 1700# (45 mins.)
FBHSIP, less than 50# (30 mins.) Tool open 105 mins.
Recovered 350 cc filtrate water only. Schlumberger thinks
too tight to produce.

Preparing to straddle-pack drill stem test, 5900-5930',
St. Louis.

12/13/62 Drill-stem Test #1 - Straddle pack, 5900-5935': Tool
open at 7:15 a.m. 1" top and 3/4" bottom chokes. Initial
hydrostatic pressure, 2862#. Initial bottom-hole shut-in
pressure, 1886# (30 mins.) Initial Flow Pressure, 62#;
Final Flow Pressure, 72#. Tool open 2 hours 6 mins. Final
Bottom-Hole Shut-in Pressure, 1345# (30 mins.) Weak blow
throughout test; no gas to surface. Recovered 100' of heavy
oil-cut mud, 90' of gas immediately above oil-cut mud on
drill string.

12/14/62 TD 6046'. Ran and set 4-1/2" OD, 10.50#, J-55, LT&C casing
as follows:

181 Joints	5651.00'
Guide Shoe	<u>1.50'</u>
	5652.50'
Less above KB	<u>1.50'</u>
Seat	5651.00' RKB

Cemented with 100 sacks Pozmix. Plug down at 2:00 a.m.,
12/14/62. Waiting on cement.

12/15/62 Waiting on cement. Moving out rig.

12/16/62 TD 6046'. Moving in completion rig. To run and correlate
collar log and perforate 4-1/2" casing, 5556-5563' (Upper
Morrow).

12/17/62 TD 6046'. Perforated, 5556-5563', 4 ball jet shots/foot.
Ran tubing and test packer. Swabbed dry; no show. Spotted
and pumped in 500 gallons DBA acid. Breakdown pressure, 500#.
Pumped in at 2800#; injection rate, 3 barrels/minute. Immed.
SIP, 800#; 20 mins., vacuum. Swabbed down to 4000'. Shut-in
over night.

12/18/62 Shut-in pressure, 275#. Fluid level, 3500'. Had show of
black oil with acid water on first swab run. Swabbed down
to bottom with small gas blow at surface. To continue
swabbing to evaluate. Plan to rig up for sandfrac in a.m.

12/18/62 TD 6046'. Swabbed from bottom all day. Showed small amount
Contd. of gas - enough to burn.

12/19/62 TD 6046'. Preparing to sandfrac with 10,000# sand.

Sandfrac'd, 5556-5563' (Upper Morrow). Breakdown pressure, 2530#. Pumped 10,000#, 30-40 Ottawa sand into formation via open casing at 2300#; injection rate, 22 barrels/min. Immediate SIP, 1200#; 15 minutes, 800#; 30 minutes, 0. Job complete at 10:45 a.m., 12/19/62. Ran 2" tubing with test packer. Swabbed dry. Had very small flare to pit. Shut-in over night.

12/20/62 TD 6046'. Shut-in pressure, 1000#. Bleeding pressure to pit.

12/21/62 Flowed to pit overnight, 1/4" choke, 50# (95,500 CF/D. Went in hole with swab and found scattered spent acid water from 3000' to 5525' (2525'). To discontinue completion effort. To plug and abandon as noncommercial. To pull and recover 4-1/2" casing down to top of cement.

12/22/62 Pulled 2" tubing and test packer. Released completion rig.

12/23/62 Waiting on casing pulling rig and approval from Corporation Commission to plug and abandon.

12/26/62 Moving in casing pullers to plug and abandon.

12/27/62 Rigging up casing pullers.

12/28/62 To shoot 4-1/2" casing at nearest point above cement and recover.