

JENNINGS DRILLING COMPANY

JOHN P. JENNINGS
President

P.O. Box 1340 • Lawrence, Kansas 66044
913-749-1581

Oil and Gas Production

April 17, 1984

Drilling Report

1 Frey NE SW NW 18-8S-22E
Leavenworth Co. Kansas

Friday, April 13 Moved in and started to drill surface hole at 5:00 PM
April 14 Set 40' of surface, and started to drill under surface
 after cement set up at 9:30 AM. Made 656' by 6:00 PM
April 15 Tops from samples:

| | <u>Depth</u> | <u>Datum</u> | <u># 1 Theis</u> | <u># 1 Hund</u> |
|--------------|--------------|--------------|------------------|-----------------|
| Base K.C. | 502 | (+397) | + 14 | -6 |
| Cherokee | 751 | (+148) | + 14 | -10 |
| Coal Marker | 1117 | (-218) | + 10 | +1 |
| Cherokee SS | 1124 | (-225) | | |
| U McLouth | 1220 | (-321) | +7 | - |
| Burgess | 1292 | (-393) | -7 | -23 |
| Miss St. L | 1297 | (-398) | -2 | -12 |
| Miss Spergen | 1300 | (-401) | DNP | DNP |
| RTD | 1312 | | | |

Lower Cherokee SS Whitemed grn quartz, good porosity, show tarry oil

Upper McLouth Fine increasing to medium grained, subangular,
1220-33 well sorted, pyrite & trace mica, very good porosity
 very good show of free oil. Oil circulated to pit.

1233-43 Mostly tight, w/ shal laminae, some with porosity
 and show of free oil

Miss Spergen Dolomite 1404-12 dolomite, pale green-gray, trace vuggy porosity
 with show of tar. The minus datum on the Spergen
 is about 20' higher than any of the Heintzelman
 well. Before we finish development we should consider
 taking one to the Osage porosity.

April 16 Ran 1277' of 4½" 9½# EW Range 1 casing. Had to wash down
 the last 800 feet with Dowell Pump truck and 160 Bls salt
 water. Could not circulate the shale to the surface.
 Because there had been 20' of shale caving in the hole
 when we laid down the drill pipe, I left out the last
 joint for fear I could not get it down or would plug up
 the shoe with shale. For this reason the log TD of 1256
 has not got all the gamma curve of the Lower McLouth sand.
 It looks to me like we have 8' of clean Upper McLouth and
 at least 8' of clean Lower McLouth. I think all of it
 should make oil.

Cemented the long string while rotating with 90 sacks
50% Poz 50% common, 6% D-20 & 2% salt. Taild in job
with 50 sacks RFC. Cement bridged 200 feet down from
surface.

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April 24, 1984

1 Frey, Completion Report

Great Guns on location at 9:00 AM. Their collar locator was up the hole six feet to our log. Checked half a dozen collars, and adjusted collar locator. I have much more faith in Great Guns than Gault, and am of the opinion that our log tops are 6' low.

TD 1248. Drove plug down with the gun to 1254. Shot 1244 to 1250 four SSB shots per foot in five hundred feet water. Had good show of oil in water last three pulls. Shot 1227-1233 four shots per foot dry. Had oil on gun. Ran swab. Good show of oil and gas. Shut down 1 hour. Pulled 1/3 B0 with gas natural. Put in 30 gallons 15% HCL acid, loaded hole with salt water, shut in with orbit.

April 25, 1984

Dowell on location at 8:30. Pulled swab twice after swabbing out the water. Got 1/2 Bls fluid each hour 1/2 oil & 1/2 acid water. Started frac at 11:00 AM Got 20 B1 pad on bottom, broke the formation down with the pad at 1000#, sand on bottom fed at 800#, put in 3000# of 10/20 sand, dropped 14 balls, when balls hit perfs. had instant pressure to 1300#. Pipe jumped and had gelled water flowing around the casing. Shut down. Bled off, and ran swab with no cups. Hit steel between estimated 150 and 200'. Worked casing with elevators and sledge. Got it back together. Ran bailer to bottom. Got sand and very oil cut water. Ran swab with no cups to bottom. No problem. Circulated water down the casing and tried to screw back together. Would turn, but not screw, or had split collar. Released crew at 4:00 PM.

April 26, 1984

Got Consolidated and Baker tool man on location at 11:00 PM. Consolidated was an hour late. Located hole in casing 123 to 125 ' by pumping down flag on wire line. Think collar and top of joint was split. Ran Baker bridge plug to 200' with tubing, set it and washed out tubing. Put 100# sand on top of plug. Pulled tubing. Cemented to surface with 30 sacks 50% common/50% posmix. Pumped wooden plug down to 100', following with wire line. Shut in manifold. Put crew to changing from swab to drilling tools with jars. Will drill out and wash out in the morning.

April 27, 1984. Started to drill out cement at 7:00 AM. Thru cement and found sand on plug at 9:30 AM. Consolidated pump and water truck, and Baker tool man on location at 10:00 AM. Washed sand off plug and retrieved it. Ran tubing to bottom. Had fifty feet of sand in hole. At the time the casing broke there was almost 2,000# of sand in gell in the casing which would have filled up about 200'. Some of this sand must have gone into the upper set of perforations. Washed out the sand to bottom. There was considerable pipe dope in the casing. We recovered several pounds circulating and recovering the tubing. Am investigating where this came from. Ran Tubbing and rods.

April 28, 1984 Putting on pump to test into swab tank.