

J. R. GREEN ELECTRIC LOG
JERRY GREEN

State Geological Survey
WICHITA BRANCH

GREEN & GREEN
CONSULTING PETROLEUM GEOLOGISTS
P. O. BOX 503 309 WEST 6th STREET
HAYS, KANSAS 67801

AREA CODE 913
625-9023 OR 625-5155

24-12-23w

August 25, 1981

GEOLOGIC REPORT

Ram Petroleum No. 1 Riedel
SE NW NW 24-12-23w
Trego County, Kansas
Commenced: 8/14/81
Completed: 8/25/81

Pipe Record:
8 5/8 @ 258' w/185 sacks
D & A: Cherokee 4130
Anhydrite: 1848-90
Drilled by: J. O. Farmer
Rig #4

2419 Ground ELEVATION 2424 K.B. 2421 D.F.

FORMATION DATA
(Corrected to Radiation Guard Log)

| <u>FORMATION</u> | <u>SUB-SEA DATA</u> | <u>DEPTH</u> |
|----------------------------|---------------------|--------------|
| TOPEKA | -1016 | 3440 |
| HEEBNER | -1232 | 3656 |
| TORONTO | -1254 | 3678 |
| LANSING-K.C. | -1270 | 3694 |
| KANSAS CITY BASE | -1510 | 3934 |
| MARMATON CHERT | -1579 | 4003 |
| CHEROKEE SAND | -1666 | 4090 |
| R.T. DEPTH | -1706 | 4130 |

NOTICE: The only positive calculations in this hole above the Cherokee are above the Topeka. Future drilling in this area should include sample examination of these positive calculating benches.

Cores: None.
Drill Stem Tests: Four, see below.
Electric Logs: Electra Radiation Guard Log.

FORMATION DESCRIPTIONS

TOPEKA 3440-3656:
This series of benches were made up of barren fossiliferous and fine crystalline limestone and shale.

TORONTO 3678-88:
There were no oil shows in this limestone.

LANSING-KANSAS CITY 3694-3934:

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A, B Bench 3694-3720 There were thin streaks of barren medium to coarse crystalline dolomitic limestone with excellent porosity, interbedded in firm fine crystalline limestone.

C Bench 3734-42 Very minor oolitic and fossiliferous porosity with traces of medium crystalline as above with minor free oil. This was condemned by D.S.T. No. 1 and log calculations.

D Bench 3748-60 Very minor fossiliferous limestone porosity with free oil. Condemned by D.S.T. No. 1 and log calculations.

DRILL STEM TEST No. 1 3718-63:

Open 30 minutes, weak blow that died, flushed tool, recovered 10 feet oil specked mud, flow pressure 48-59, 30 minute final bottom hole pressure 1080 pounds.

E, F Bench 3768-84 and G Bench 3787-3817 Ample free oil in a medium crystalline dolomitic limestone grading to fine crystalline tight limestone with poor to excellent porosity. This was condemned by D.S.T. No. 2 and the log.

DRILL STEM TEST No. 2 3762-3795:

Open 150 minutes, recovered 800 feet of salt water with a few oil specks, flow pressure 60 to 476 pounds, 30 minute initial bottom hole pressure 1068, 30 minute final bottom hole pressure 1033 pounds.

H Bench 3831-48 Minor to adequate, free oil in a tight pin point vugular and fossiliferous limestone. Condemned by D.S.T. No. 3 and the log.

I Bench 3852-66 Adequate free oil in a fine to medium crystalline tight to friable limestone. This was condemned by D.S.T. No. 3 and the log.

J Bench 3868-84 Adequate free oil in a tight pin point vugular and vugular limestone. Condemned by D.S.T. No. 3 and the log.

K Bench 3891-3910 Minor free oil and ample lignite laced pin point vugular porosity that was condemned by D.S.T. No. 3 and the log.

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DRILL STEM TEST No. 3 3804-3910:

Open 150 minutes, recovered 10 feet of mud, flow pressure 83 to 95 pounds, 30 minute initial bottom hole pressure 690 pounds, 30 minute final bottom hole pressure 321 pounds.

L Bench 3914-34 No oil shows, included in D.S.T. No. 4.

MARMATON CHERT 4003-74:

The 4010-15 sample had ample Marmaton Chert but the oil shows in this section developed below 4027 where there was ample free oil in a chert studded, fossiliferous and friable fine crystalline limestone, condemned by D.S.T. No. 4 and the log.

DRILL STEM TEST No. 4 3999-4055: Mis-run.

DRILL STEM TEST No. 4 3910-4060:

Open 150 minutes, recovered 65 feet of mud, flow pressures 119 to 143 pounds, 30 minute initial bottom hole pressure 832 pounds, 30 minute final bottom hole pressure 654 pounds.

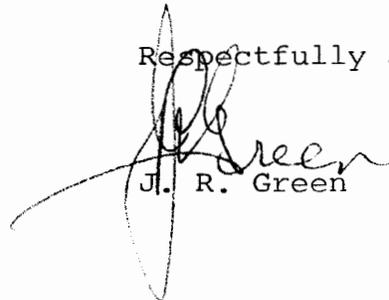
CHEROKEE SAND 4090-4130:

4090-96 was a barren, dirty, micaceous, fine grained sandstone with some chalk matrix, that calculates 20 to 25% porosity and 46 to 48% water. This was condemned by the samples. The sandstones stringer that developed below 4100 were made up of medium to coarse sand grains, that were tight to friable poor to excellent porosity. Below 4120 the sandstone gave way to yellow, tan, offwhite, barren cherts.

RECOMMENDATIONS

It was recommended and confirmed by all parties concerned to plug this hole.

Respectfully submitted,



J. R. Green

JRG/gc