

Completed and recorded

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GEOLOGISTS REPORT

for

Garrett #1-86

API #15-087-20243

C, NE, SE, Sec. 8, T9S, R20E

Jefferson County, Kansas

February 1986

by

George E. Petersen C.P.G.S.

DEACON GEOLOGY INC.



professional geologists

GEOLOGISTS REPORT

Garrett 1-86

- Feb. 10, 1986: Checked Location @ 2PM. Rig moving in. Location staked in wrong location, called dozer and moved location to correct spot.
- Feb. 11, 1986: Checked Rig @ 12:30PM, setting surface.
- Feb. 12, 1986: Checked rig (down with mechanical problems).
- Feb. 13, 1986: Checked rig (little progress, problems with circulation swivel).
- Feb. 14, 1986: Called Buck Dozer Service to finish pits.
- Feb. 15, 1986: Checked rig @ 1:30 AM, drlg. at 1210'. Returned to location @ 4PM.
- Feb. 16, 1986: Completed logging, made plugging arrangements, left location at 9:30 AM.

Elevation: 1025 G.L. (Topo)

FORMATION TOPS	Log depth	Datum	Thickness
Based KC	744	+281	
Marmaton	890	+135	96
Cherokee	986	+39	492
"McLouth Sands"	ABSENT		
Mississippian Lm.	1,478	-453	
RTD	1,493		
LTD	1,485		

Sample returns were examined from a drilled depth of 800 feet to TD for the presence of visible hydrocarbons. Formation tops and intervals for this report were picked from sample returns, drilling time log and the Neutron-Density Porosity Log. There was no visible evidence of the presence of oil or oil staining in any of the geologic units examined in this well.

CHEROKEE GROUP:

There were three sand intervals between 1260 and 1370 that may have some gas present in them. These sands have not yet been tested in this area and thus their true potential is not known. Log calculations were prepared on location By Mr. Glenn Schmeidler of Log-Tech Inc. for these three intervals using the following values; M=1.8, Rw=.2.

<u>Interval</u>	<u>Ø</u>	<u>Rt</u>	<u>Sw</u>
1262-64	18	13	58
64-66	18	12	60
66-68	17	12	65
68-70	16	12	72
70-72	16	12	72
1308-10	17	12	65
10-12	17	10	70
12-14	17	16	56
14-16	16	16	58
16-18	8	12	100
1364-66	13	20	61
66-68	12	30	58

Although the logs indicate semi-favorable Sw values and there is some slight gas effect on the log, no further study of these zones is planned in this well since it has been plugged. Should wells on adjoining leases or another well on this lease prove productive from these zones, this well can be re-entered and tested.

The "McLouth Sand" interval was absent in this well. Preliminary evaluation of the logs, along with comparison to logs of adjoining wells suggest that a fault may be present and as much as 40 feet of the lower Cherokee is probably missing.

Based on the absence of the "McLouth" interval and the untested potential of the upper sands, there appears to be no potential for the commercial production of gas at this time.

MISSISSIPPIAN LIME:

The Mississippian Lime was reached at a log depth of 1478' (-453). Sample returns consisted of a tan coarsely crystalline limestone. There were no visible traces of oil

or oil staining on the samples from the drilled interval. There is no potential for the production of oil or gas from the drilled interval in this well.

CONCLUSIONS AND RECOMMENDATIONS:

Based on the absence of the "McLouth Sand" interval, it was decided to plug this well as the upper sands are as yet unproven in this area. There appears to be a major fault at this location as evidenced by the absence of 40 some odd feet of the lower Cherokee Section where the "McLouth Sands" are normally found. The fact that the sands are absent in this well does not condemn the other locations on this lease.

Although there were several problems encountered in the drilling of this well, the rig and drilling crews do appear to be competent and can be recommended for future use. The mechanical problems are being corrected prior to the beginning of drilling on the next well.

Should additional information be required, please contact me.

Respectfully submitted,

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mrp/GEP