

Computer Integrated

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GEOLOGISTS REPORT

for

Dale Saylor #1-86

API #15-087-20238

2190' FEL, 3030' FSL, Sec. 5, T9S, R20E

Jefferson County, Kansas

February 1986

by

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

DEACON GEOLOGY INC.



*professional geologists*

# GEOLOGISTS REPORT

Dale Sayler #1-86

Feb. 14, 1986: Checked location throughout day.

Feb. 14, 1986: Completed logging 12:30 PM.

Elevation: 1020 G.L. (Topo)

Formation Tops	Log Depth	Datum	Thickness
Base KC	751	+285	
Marmaton	892	+142	92'
Cherokee	984	+50	494'
McLouth Sand	ABSENT		
Burgess	1,470	-436	8'
Mississippian Lime	1,478	-444	
RTD	1,496		
LTD	1,503		

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 above the lower Cherokee in this well.

## CHEROKEE GROUP:

There were three sand intervals found between 1236 and 1250; 1254 and 1264 and 1273 to 1288. The upper two sands were relatively clean, medium to coarse grained, quartz sands and the lower sand was similar except for a higher shale content. The upper two sands have very good porosity and quick look calculations indicate Sw values in the 55 to 65% range. A detailed analysis was not done, as these sands have not yet been produced in the area.

At such time as production can be established in the area from these sands, a more thorough evaluation can be prepared.

The "McLouth Sand" interval was absent in this well. The interval normally occupied by the sands is occupied by a dark gray to black shale.

The Burgess Sand was topped at a log depth of 1470 feet. Sample returns consisted of a clear, coarse grained, quartz sand that appeared shaly on the logs. There was a slight show of heavy dark brown oil. There was no odor. Porosity values were very low and water saturations were calculated at 90 to 100% water. There was no evidence of the presence of gas in this zone.

Based on the log analysis and sample returns, there appears to be no potential for the production of commercial quantities of gas from the Cherokee in this well.

#### MISSISSIPPIAN LIME:

The top of the Mississippian was reached at a log depth of 1478' (-444). Sample returns consisted of a white to tan, semi-lithographic to very coarsely crystalline limestone. There was a slight show of dark brown heavy oil on fracture faces. There was no odor. It is very doubtful if the commercial production of oil or gas is possible from the upper Mississippian in this well.

#### CONCLUSIONS AND RECOMMENDATIONS:

Based on the absence of the "McLouth Sands" and the lack of favorable evidence of the presence of gas or oil in the "Burgess" it was recommended that this well be plugged.

Should additional information be required, please contact  
me.

Respectfully submitted,

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

DEACON GEOLOGY INC.

mrp/GEP