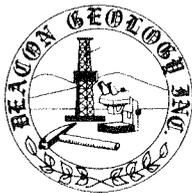


*George E. Petersen, c.p.g.s.
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*3223 Mc Clure Rd.
Topeka, Kansas 66614 913.272-4383*

Computer Inventoried

GEOLOGISTS REPORT

for

Strange #1-86

570' FSL, 1650' FWL, SW4, Sec. 4, T9S, R20E

Jefferson County, Kansas

February 1986

by

George E. Petersen C.P.G.S

DEACON GEOLOGY INC.



professional geologists

GEOLOGISTS REPORT

Strange #1-86

Feb. 11, 1986: Called to wellsite @ 2:30 AM.
Released from location @ 5 PM.

Elevation: 974 G.L. (Topo)

FORMATION TOPS	LOG DEPTH	DATUM	THICKNESS
Base KC	688	+286	
Marmaton	825	+149	91'
Cherokee	916	+58	490'
"U. McLouth Sd."	1,350	-376	7'
"M. McLouth Sd."	1,357	-383	7'
"L. McLouth Sd."	1,364	-390	20'
Burgess Sd.	1,398	-424	8'
Mississippian Lm.	1,406	-432	
RTD	1,424		
LTD	1,423		

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 above the "McLouth Sand".

CHEROKEE GROUP:

There were several sand intervals above the "McLouth Sands" in the Cherokee Group; however, as in the "McLouth" these sands were somewhat shaly in nature. There may be some gas in some of these intervals but since the well has been plugged, no further study of these zones is planned at the present time.

The "McLouth Sands" were reached at a log depth of 1350 feet and have been divided for correlation purposes into an upper sand(1350-57), middle sand (1357-64) and a lower sand (1364-84). There was a slight show of heavy dark brown oil present throughout the three sands; however, there was no noticeable

odor. The application of trichlorethane yielded bright streaming cuts and fluorescence. The sands varied from a medium to coarse grained quartz sand in the upper two zones to a coarse grained clear quartz sand in the lower portion.

Log calculations were prepared on location by Mr. Chuck Fitzgerald of Log Tech Inc. using the following values: $M=1.8$, $R_w=.2$.

Interval	\emptyset	Rt	Sw
1364-66	8	10	100
66-68	11	14	88
68-70	11	14	88
70-72	10	10	100
72-74	10	14	85
74-76	9	14	100
76-78	9	14	100
78-80	10	14	80
80-82	9	15	100
82-84	9	14	100

The calculations indicate that the interval is too wet to produce commercial quantities and thus the decision was made by Mr. Reese to plug the well.

BURGESS SAND:

The Burgess sand was reached at a log depth of 1398 feet (-424) where a clear coarse quartz sand containing some very heavy dark brown free oil was found. There was no apparent odor. This interval also appeared very wet and was abandoned.

MISSISSIPPIAN LIME:

The Mississippian was reached at a depth of 1406 feet (-432). Sample returns consisted of a white to light tan very coarsely crystalline to semi-lithographic limestone which contained a good show of heavy dark brown free oil. This oil was found

on fracture faces and in pinpoint porosity. There was a good petroleum odor.

As there is no interest at this time in producing oil from the Mississippian no log calculations were prepared for this interval.

CONCLUSIONS AND RECOMMENDATIONS:

Based on the shaly nature and the high Sw values for the "McLouth Sands" it was decided to plug this well. It should be recognized that the shaly nature caused lower ϕ readings and higher Sw values to be calculated from the logs. Should gas prices rise substantially, it may be feasible to reopen and test this zone at some future time.

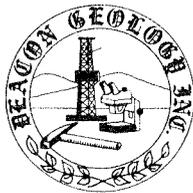
Should additional information be required, please contact me.

Respectfully submitted,

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

DEACON GEOLOGY INC.

*George E. Petersen, c.p.g.s.
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Computer Inventoried

GEOLOGISTS REPORT

for

Strange #2-86

API #15-087-20249

S2, NW4, SW4, Sec. 4, T9S, R20E

Jefferson County, Kansas

February 1986

by

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

DEACON GEOLOGY INC.



professional geologists

100% Sw values.

MISSISSIPPIAN LIME:

The Mississippian was reached at a log depth of 1466 feet (-424). Sample returns consisted of a white to light tan semi-lithographic limestone. There were no shows and no odor in this interval.

No production is expected from the Mississippian in this well.

CONCLUSIONS AND RECOMMENDATIONS:

Based on the absence of the "McLouth Sands" and the very shaly nature of the Burgess along with calculated water saturations of 100% it was decided to plug the well.

To enable accurate maps utilizing data from wells such as this, it is strongly recommended that surveyed elevations be obtained on all well locations.

Should additional information be required, please contact me.

Respectfully submitted,

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

DEACON GEOLOGY INC.

mrp/GEP

GEOLOGISTS REPORT

Strange #2-86

Elevation: 1042 G.L. (Topo)

FORMATION TOPS	LOG DEPTH	DATUM	THICKNESS
Base KC	751	+291	---
Marmaton	890	+152	92'
Cherokee	982	+60	484'
McLouth	ABSENT		
Burgess Sd.	1,454	12'	
Miss. Lm.	1,466	---	
RTD	1,496		
LTD	1,495		

Sample returns were examined microscopically from a log depth of 800 feet to TD for the presence of visible hydrocarbons. Formation tops and intervals for this report were picked from sample returns, the 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 above the Burgess Sand.

CHEROKEE GROUP:

There were several clean sand intervals scattered throughout the Cherokee Group that have good porosity and may contain unknown quantities of gas. These sands have not been tested in this area to date.

The "McLouth Sands" which were the primary objective in this well were absent, therefore, it was recommended that the well be plugged.

The Burgess Sand interval in this well (1454-66) was represented by a gray, shaly coarse grained quartz sand that contained a slight show of heavy dark brown oil. There was no apparent odor; however, applications of trichlorethane yielded good cuts and fluorescence. Calculations for this interval indicate