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RIDER CONSULTING PETROLEUM GEOLOGISTS

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June 4, 1984

GEOLOGIC REPORT

MWM L-6
SE SE NE Sec. 24-7S-18W
Rooks County, KS
Commenced: 5-24-84
Completed: 5-31-84

Pipe Record:
8 5/8" @ 1198' w/325 sks
60-40 Pos, 3% CC, 2% Gel, 75 sk Com
Anhydrite: 1195' (+582)
Drilled by: Pioneer Drlg., Rig #2

Elevation 1777 K. B.
1772 G. L. 1775 D. F.

Formation Data
(Corrected to R. A. Log)

FORMATION	DEPTH	MINUS DATA
Anhydrite	1193	+ 584
Topeka	2705	- 928
Heebner	2914	-1137
Toronto	2940	-1163
Lansing K. C.	2957	-1180
Base K. C.	3180	-1403
Marmaton	3185	-1408
Arbuckle	3256	-1479
RTD	3271	-1494
LTD	**3271**	**-1494**

Cores: None
Drill Stem Tests: None
Electric Logs: Welex (R.A. Guard Log)

Log Comparison Minus Data

FORMATION	19-7-17W #2 Chaffin	24-7-18W #1 St.IND.DEV.	24-7-18W #1-6 MWM
Anhydrite	+____	+ 585	+____
Topeka	-____	- 933	- 933
Heebner	-1154	-1139	-1145
Toronto	-1178	-1165	-1168
Lansing K. C.	-1198	-1185	-1187
Base K. C.	-____	-1410	-1413
Arbuckle	-1514	-1491	-1474

FORMATION DESCRIPTIONS

TOPEKA 2705-2914:

This formation had a trace to very minor show of free oil and stain in a white to off-white fine crystalline, chalky to cherty limestone with intercrystalline and pinpoint vugular porosities. Log calculations 2914-18 with 8% porosity and 50-51% water saturation. This should be tested before abandoning this well.

TORONTO 2940-2952:

This formation had no shows.

LANSING K. C. 2957-3180:

A, B Benches 2957-2983; These benches had a trace of free oil and stain in an off-white to tan, fine crystalline, slightly chalky, fossiliferous limestone with intercrystalline and oolicastic porosities. Log calculations 2964-68 with 5% porosity and 57% water saturation.

C, D Benches 2984-3024; These benches had a trace to very minor show of free oil and stain in a white to tan, fine crystalline, dense, chalky to cherty limestone with pinpoint vugular and oolicastic porosities. Log calculations 3002-04 with 9% porosity and 43% water saturation. This should be tested before abandoning this well.

E, F, G Benches 3027-3066; These benches had a very minor to minor show of free oil and stain with slight odor in an off-white, fine crystalline, oolitic limestone with oolicastic and vugular porosities. Log calculations 3031 with 9% porosity and 43% water saturation. Log calculations 3051-59 with 8-12% porosity and 23-35% water saturation. This should be tested before abandoning this well.

H, I, J Benches 3084-3138; These benches had a fair to good show of light gassy oil with a faint odor in an off-white, fine crystalline, slightly chalky limestone with pinpoint and vugular porosities. Log calculations 3094-98 with 6.5-7% porosity and 51-54% water saturation. Log calculations 3109-13 with 10-12% porosity and 30-35% water saturation. This should be tested before abandoning this well.

K, L Benches 3141-3180; These benches had a trace of free oil and stain in an off-white, fine crystalline, dense, cherty limestone with vugular porosities. Log calculations 3151-53 with 7-8% porosity and 33-37% water saturation. Log calculations 3101-03 with 6% porosity and 46-65% water saturation. This should be tested before abandoning this well.

MARMATON 3185-3250:

This formation had a trace to very minor show of free oil and stain in an off-white to tan, fine crystalline, very dense, cherty limestone with intercrystalline, vugular and fractured porosities. Some dead oil staining was also present. Log calculations 3240-3250 with 9-14% porosities and 41-57% water saturation. This should be tested before abandoning this well.

REWORKED ARBUCKLE 3251-56:

This formation had a good show of free oil and stain and good odor in a medium crystalline, reworked dolomite with intercrystalline and vugular porosities. Log calculations 3252-3256 with 26-35% porosities and 31-40% water saturation. This should be tested before abandoning this well.

ARBUCKLE 3256-3271:

This formation had a good show of free oil and stain with a good odor in a medium crystalline, rhombic, dolomite with intercrystalline and vugular porosities. Log calculations not available.

RECOMMENDATIONS

It was recommended and confirmed by all parties concerned to set pipe and further test this well. Primary zones of interest are the Arbuckle, Marmaton and G & I Zones of the Kansas City.

Respectfully submitted,

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