

JAMES E. GUINOTTE
December 3, 1973

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P & G Oil Company
510 North Main
Yates Center, Kansas

Re: P & G Oil Co. #8 1st Nat'l. Bk.
SW NW NW Section 31-11S-9E
Riley County, Kansas

Gentlemen:

Ten (10) foot samples were caught at 1450' to R. T. D., 1720' and one (1) foot drilling time kept and plotted from 1450' to R. T. D.. All measurements used in this report are from ground level 1345' above sea level. There were no logs run on the open hole nor drill stem tests made on this well.

Comm. drlg.: November 27, 1973
Comp. drlg.: December 1, 1973

Elevation
1345' Grd. level

Contractor

Alec Drilling Company
Iola, Kansas

Casing

7" @ 200' w/60 sax
4½" @ 1724' w/30 sax

GEOLOGICAL TOPS

Kansas City Group
Kansas City Lime
Base Kansas City
Cherokee
Cherokee Sand
Base Cherokee Sand
Hunton
R. T. D.
Casing T. D.

TIME LOG AND SAMPLES

1261	(	4	84	)
1286	(	4	59	)
1485	(	-	140	)
1598	(	-	248	)
1658	(	-	313	)
1666	(	-	321	)
1679	(	-	334	)
1720	(	-	375	)
1724.9	(	-	379.9	)

POROUS ZONES, STAINING AND CORES

Cherokee Sand

1658 - 1660 Gray to buff to tan fine grained sand and clusters with nodules of white sand clusters, good porosity, good oil stain, free oil in samples. Good odor, dull fluorescence.

Core No. 1

1660 - 1668
Recovered 7.1'

1660 - 1666 Gray to tan fine grained sand and sand clusters with nodules of white tight sand clusters scattered throughout the core. Good porosity, good oil stain throughout core. Good odor, dull fluorescence.

1666 - 1667.1 Red and green shale

1667.1 - 1668 Loss

Hunton Dolomite

1679 - 1693 Vari-colored shales, maroon, gray, yellow, green, with traces of white dolomite and chert. Dolomite had pin point porosity with spotted stains. No odor, very slight spotted fluorescence.

1693 - 1697 White to buff to tan dolomite, very faint odor. Very slight pin point stain and porosity. No free oil in samples. Very slight spotted fluorescence.

1701 - 1707 Gray to buff crystalline dolomite, fair to good porosity with green splintery shale. Very slight odor, very faint spotted staining, pin point stains, no fluorescence.

1707 - 1716 White to yellow dolomite, possible water stains. Fair to good porosity, some chert. Very faint odor, some green shale. No stain, no fluorescence.

R. T. D. 1720 Buff to cream colored dolomite and chert, water
Csg. T. D. 1725 stained.

CONCLUSIONS AND RECOMMENDATIONS

It appears that the top of the Hunton from 1679' to 1693' shaled out with dolomite and chert interbedded with vari-colored shales. The Hunton zones from 1693' to 1697' were tight and the zone from 1701' to 1716' had good porosity, but low for commercial oil and contained water. The Hunton appears to be risky for production, but should be logged inside the casing and evaluated from the log.

The Cherokee Sand zone from 1658' - 1666' appears to be excellent for commercial production and this zone should be logged, perforated, and stimulated.

The rig measurements were 4.9 feet deeper, when casing was run than drill pipe measurements and the strip log should be correlated with

Casing log before perforating the Cherokee Sand zone.

Submitted by,

JAMES E. GUINOTTE,
Petroleum Geologist

JEG/gd