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June 24, 1969

T. G. WRIGHT DONATION
1995

GEOLOGICAL WELL REPORT

Brunson-Spines #1 Thomsen
SW NW NE Section 8-T.21S.-R.14E,
Wildcat, Coffey County, Kansas
Contractor: D. D. Sandlin Drilling Co.
Spud: May 31, 1969
7" Surface Casing @ 87'
Completed as dry hole: June 17, 1969
Total Depth: 2127'

Brunson-Spines
800 Wichita Plaza
Wichita, Kansas 67202

Gentlemen:

Listed below are the pertinent geological tops, and an evaluation of the porosities encountered in the captioned well. No drill stem tests were run and the hole was not logged electrically before abandonment.

I witnessed the drilling from 1366 - 1785', and 1920 - 2051'. I was not on location from 2051 - 2127 TD but have examined samples to 2127 TD, where the hole was abandoned.

Enclosed herewith is a copy of the plotted drilling time from 1200 - 2127 TD which also includes lithology, porous zones, geological tops and other pertinent data.

SAMPLE TOPS

ELEVATION	1175 KB
MARMATON SAND	1353 (- 178)
	1353-62 Sandstone, gray, dirty, fine, poor porosity. Slight odor of oil, gilsonitic, no free oil.
SQUIRREL SAND	1397 (- 222)
	1397-1413 Sandstone, fine, clustered, fairly clean, gilsonitic, no show of oil.
NO BARTLESVILLE SAND	developed.

MISSISSIPPIAN LIMESTONE 1690 (- 515)

OSAGE 1767 (- 592)

1767-1845 Primarily a chert section with zones of porous dolomite. Streaks of porosity throughout. No show of oil or gas.

KINDERHOOK SHALE 1970 (- 795)

SIMPSON 2038 (- 863)

2038-2040 Sandstone, medium coarse, clean, porous, in part dark oil stained. Good odor. Scattered coarsely crystalline, white dolomite.

2040-2051 See core description below.

2051-2118 Primarily a rounded, loose to loosely cemented, white sandstone, varying degrees of porosity. No shows.

ARBUCKLE 2118 (- 943)

2123-2127 TD Dolomite, gray to brown, medium to coarsely crystalline. Some good, cavernous porosity. No shows.

TOTAL DEPTH: 2127 (- 952)

Core #1 2040-51 Recovered 9-1/2/11

2040-2041 Dolomite, light gray, very coarsely crystalline, occasional very coarse vugs, filled with druzy dolomite, free very dark oil.

2041-2042 As above, very cavernous. Large piece of pure asphalt in cavern.

2042-2045 Dolomite, light gray, extremely coarsely crystalline, occasional small vugs, vertically fractured, dark oil in fractures.

2045-2046 Sandstone, medium coarse, angular, clean, porous, gilsonitic.

2046-2047 Core lost.

2047-2048 Sandstone, white, greenish cast, coarse to medium coarse, rounded, porous, extremely friable, no show.

2048-2051 Sandstone as above except finer, less porous and friable, and whiter.

Conclusion and Recommendations

From available subsurface information, which is sparse and not always reliable, it appears that the subject well is located on a strong Pre-Mississippian fold.

This well is almost 200 feet higher on the Arbuckle than a dry hole 2-1/2 miles west, and shows more than 50 feet of truncation of the Mississippian Limestone at the basal Pennsylvanian unconformity, another indication of favorable structure. In spite of this favorable structural relationship, the Simpson reservoir is full of water with only asphaltic residue in evidence in the upper 7 or 8 feet. The Arbuckle is also judged as water bearing, with no show of oil. Excellent porosities exist in Simpson and Arbuckle.

From the favorable structural position of the well, it would seem advisable to plan future exploratory effort in the immediate area.

It was recommended that the well be abandoned as a dry hole.

Yours very truly,

T. G. Wright

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