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September 30, 1971

GEOLOGICAL WELL REPORT
Brunson-Spines #4 Lane
NW NE NE Section 26-T24S-
R12E, Virgil Area, Greenwood
County, Kansas.
Contractor: Mark Kilby Drilling
Spud: September 23, 1971
7" Surface Casing @ 451'
4½" Oil String @ 1704'.
Total Depth: 1719'.

Brunson-Spines
800 Vickers-KSB&T Building
Wichita, Kansas 67202

Gentlemen:

Following are the pertinent geological tops, an evaluation of the porosities below the Ft. Scott, and a description of a Bartlesville core.

I arrived at the location at a depth of 1680' and witnessed the operation to T.D. 1719. Samples were examined from 1300-1719 T.D. The hole was not logged electrically before being cased.

Enclosed herewith is a copy of the plotted drilling time from 1300-1719 T.D. which also includes lithology and other pertinent data.

SAMPLE TOPS

ELEVATION	1114 K.B.
FT. SCOTT	1403 (- 289)
PRUE SAND	1497 (- 383)
BARTLESVILLE SAND	1703 (- 589)
TOTAL DEPTH	1719'

DIAMOND CORE #1

1700-1719

Full Recovery

1700-02	Shale, dark gray, compact in part slickensided.
1702-03	Shale, dark gray, slightly sandy.
1703-04	Sandstone, coarse, irregular, friable, subangular to rounded, well cemented but apparent good cavernous type porosity. Finely crystalline, brown, non-calcareous filling material within the porosity. Completely oil saturated, good odor. 4 to 6 inches of hard, compact, brecciated clay stone.
1704-16	Sandstone as above, good porosity, completely oil saturated. Thin black shale seam @ 1712'. Thin coal 1713-15.
1716-17	Conglomeratic shale pebbles, coal inclusions, sandy streaks.
1717-19	Shale, dark gray, hard, compact.

NOTE: The sand section 1703-16 appears visibly to have consistent porosity and permeability, however the bottom 4 feet appeared somewhat less porous than that above.

CONCLUSIONS AND RECOMMENDATIONS

This well is 3 feet higher on the Bartlesville Sand than the west offsetting #2 Lane. The Bartlesville reservoir looks very favorable on the basis of core taken. Porosities and permeabilities appear good and the sand is relatively thick and well saturated.

It was recommended that the hole be cased to test the Bartlesville.

Yours very truly,

T. G. Wright

TGW:wlr

BIT RECORD

Security	S4J	Retip	45-739
Williams	W3		739-1021
Security	S4J		1021-1700
Core			1700-1718

DRILLING PROGRESS

9/23/71	Spud
9/24/71	660
9/25/71	SD 739
9/26/71	800
9/27/71	1250
9/28/71	1500
9/29/71	WOC