

July 20, 1973

GEOLOGICAL WELL REPORT

Brunson-Spines #1 Fellers,
NW NW NW Section 36-T18S-R15E,
Wildcat, Osage County, Kansas
Contractor: Jackman & Jackman Drig. Co.
Spud: July 12, 1973
8 5/8" Surface Casing @ 106
Completed as dry hole July 17, 1973
Total Depth 2144'

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

Gentlemen:

Listed below are the pertinent geological tops and an evaluation of the porosities encountered. No drill stem tests were taken and the hole was not logged mechanically before being abandoned.

I arrived at the location at a depth of 950 and witnessed the drilling from that point to T.D. 2144. Samples were examined from 0-2144 - Total Depth.

Enclosed herewith is a copy of the plotted drilling time log from 0-2144 - Total Depth which also includes lithology, porous zones, tops, and other pertinent data.

SAMPLE TOPS

ELEVATION	1100 KB (From topog sheet)
DOUGLAS	230 (+870) 480-530 Sandstone, medium fine, gray to white, clean, clustered, good porosity, no show.
LANSING	550 (+550)
BASE OF KANSAS CITY	927 (+173) 970-1070 Sandstone, gray, medium fine, dirty and calcareous to fairly clean. Possible porosity, no show.
ALTAMOUNT	1060 (+ 40)

J. G. WRIGHT DONATION

1995

PAWNEE	1110 (+ 40)
FT. SCOTT	1150 (- 50)
CHEROKEE	1250 (-150)
	1545-63 Sandstone, white, medium grained, clean, clustered. Good porosity, no show.
MISSISSIPPIAN LIMESTONE	1604 (-504)
	1608-36 & 1641-56 Dolomite and dolomitic limestone, medium crystalline to sucrosic, tan to buff. Zones of fair to good cavernous and inter crystalline porosity, no show.
OSAGE	1746 (-646)
CHOTEAU	1801 (-701)
KINDERHOOK SHALE	1960-(-860)
CHATTANOOGA SHALE	1992 (-892)
VIOLA	2043 (-943)
	2044-52 Dolomite, white, medium crystalline. Good cavernous porosity, no show.
SIMPSON	2058 (-958)
	2062-92 & 2104-2112 Sandstone, white to gray, rounded, medium grained, loosely cemented to loose grains. Good porosity, no show.
ARBUCKLE	2112 (-1012)
	2118-44 Dolomite tan to buff & brown, medium to coarsely crystalline, cherty streaks. Zones of excellent porosity, no show.
TOTAL DEPTH	2144

Conclusions and Recommendations

In a comparison of the structural relationships of this well to dry holes in the area the subject well checks normally with dry holes east and west on Pennsylvanian markers being 44 feet lower than a dry hole 2½ miles east and 56 feet higher than a dry hole 4 miles west on the base of The Kansas City. However, due to thinning in the older Pennsylvanian, at the top of the Mississippian Limestone the test is only 17' lower than the dry hole 2½ miles east and 35 feet higher than the dry hole 4 miles west. On the top of the Mississippian Limestone the subject well appears higher than normal. Unfortunately the total Mississippian section thickened in this well so that at the top of the Viola we were 30 feet lower than the dry hole 2½ miles east and 27 feet higher than the dry hole 4 miles west.

At this point the structural comparison must be referred to a dry hole 6 miles northeast in Section 5-T18S-R16E. At the Arbuckle the subject well checks 8 feet higher than the dry hole 6 miles northeast after being 26 feet lower on the Mississippian Limestone. This reversal of relationship is due to thinning in the Viola and Simpson sections in this well. On the Arbuckle the subject well appears considerably higher than normal structurally. However no shows of oil were observed and the well was recommended plugged as a dry hole.

Yours very truly,

T. G. Wright

TGW:jad

BIT RECORD

Security	M 4 NJ (Retip)	106 - 748
Smith	CP ES2GJ (Retip)	748 -1225
Smith	DTJ (Retip)	1225 -1621
Smith	MEJ Burton (rerun)	1621 -1962
Reed	OCR410J1	1962 -2144 T.D.

DRILLING PROGRESS

7-12-73	Spud		
7-13	90		
7-14	715		
7-15	1390		
7-16	1800		
7-17	2144	TD	D&A

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Wichita, Kansas 67202

Re: Brunson-Spines #1 Fellers,
NW NW NW Section 36-T.18S-R.15E,
Osage County, Kansas

S T A T E M E N T

4 days @ \$125.	\$ 500.00
498 miles @ 12¢	59.76
Meals & lodging	<u>45.00</u>
	\$ 604.76