

August 2, 1973

GEOLOGICAL WELL REPORT

Brunson-Spines #4 Thomsen "B"  
SE NW NE Section 10-T21S-R14E  
Thomsen Pool, Coffey County, Kansas  
Contractor: Jackman & Jackman  
Spud: July 28, 1973  
8 5/8" Surface Casing @ 106'  
5 1/2" Production Casing @ 1942  
Rotary Completion: Aug. 1, 1973  
Total Depth: 1944' (Rotary)

Brunson-Spines  
800 Vickers-KSB&T Building  
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 cased.

I arrived at the location at a depth of 1825 and witnessed the drilling from that point to 1944 T.D. Samples were examined from 1200-1944 T.D.

Enclosed herewith is a copy of the plotted drilling time log from 400' to 144' T.D. which also includes lithology, porous zones, geologic tops and other pertinent data.

SAMPLE TOPS

ELEVATION	1123 KB
LANSING	560 (+ 563)
BASE OF KANSAS CITY	965 (+ 158)
CHEROKEE	1210 (- 87)
SQUIRREL SAND	1275 (- 152)

1275-85 Sandstone, medium grained, dirty, slightly oil stained.

MISSISSIPPIAN LIMESTONE	1625 (- 502)
OSAGE	1662 (- 539)
CHOTEAU	1738 (- 615)
Kinderhook Shale	1869 (- 746)
BASE OF CHATTANOOGA-VIOLA	1941 (- 818)

1941-44 T.D. Trace of pyritic sandstone, much pyrite, some chert, tan, sub-vitreous, fractured, oil staining and trace of free oil.

TOTAL DEPTH 1944'

*Cable Tool T.D. 1952 in sand. T.S. imp. 1946*

#### Conclusions and Recommendations

The subject well 12 feet lower than your #1 Thomsen "B" less than one location northeast on the top of the Mississippi Lime. At the base of the Chattanooga unconformity, this well checks 1 foot higher than the #1, however, no sand was observed.

In my best judgment the well is 3 feet in the unconformity and probably has penetrated the Viola at 1944 T.D.

The hole was cased to 1942 and will be drilled in with cable tools. There is considered to be no "pay" at T.D. 1944.

Very truly yours,

T. G. Wright

TGW;wlr

BIT RECORD

Smith	DTJ	(Retip)	105 - 855
Smith	DTJ	(Retip)	855 -1145
Hughes	OSC3AJ		1145 -1420
Hughes	OSC3AJ		1420 -1625
Hughes	J88MX	(Rerun)	1625 -1789
Reed	OCR355J	(Repaired)	1789 -1944 TD

DRILLING PROGRESS

7/28/73	Spud		
7/29/73	690		870 Fri
7/30/73	1295		1400 Sat
7/31/73	1777		1800 Sun
8/1/73	1944 TD	WOC	5-1/2"