

T. G. WRIGHT

Consulting Geologist

805 VICKERS - KSB&T BLDG.

WICHITA, KANSAS 67202

January 13, 1975

GEOLOGICAL WELL REPORT

Gear Operating Co. #1 Wilson
NE SE SE Section 23-T21S-R13E
Coffey County, Kansas
Contractor: Triangle Drilling Co.
Spud: January 2, 1975
8 5/8" Surface Casing @ 59'
Completed as dry hole: January 10, 1975
Total Depth: 2283'

Gear Operating Co.
514 Union Center
Wichita, Kansas 67202

Gentlemen:

Listed below are the pertinent geological tops, an evaluation of the porosities encountered, and a record of all drill stem tests. The hole was logged by GRN Log 0-2278, through drill pipe, that data included herein.

I arrived at the location at a depth of approximately 1200' and witnessed the drilling from that point to TD 2283. Samples were examined from 600-2283 TD.

Enclosed herewith is a copy of the plotted drilling time log from 70-2283 TD which also includes lithology, geologic tops, porous zones and other pertinent data.

GRN LOG TOPS

ELEVATION	1168 KB
HEEBNER	395 (+ 773)
DOUGLAS	433 (+ 735)
LANSING-KANSAS CITY	715 (+ 453)
KANSAS CITY	1008 (+ 160)
BASE OF KANSAS CITY	1130 (+ 38)
ALTAMONT	1305 (- 137)
PAWNEE	1369 (- 201)

T. G. WRIGHT LOGS

1305

CHEROKEE

1420 (- 252)

NOTE: No Squirrel Sand Development

BURGESS SAND

1777 (- 609)

1777-83 Sandstone, white, fine to medium grained, angular, loosely cemented to clustered porous, no stain, no odor.

1783-90 Sandstone, loose, clean, medium coarse, good porosity, no stain or odor.

MISSISSIPPIAN LIMESTONE

1790 (- 622)

1811-18, 1822-25, 1831-34

Limestone, and dolomitic limestone, finely crystalline to sucrosic, fair porosity, no show.

OSAGE

1939 (- 771)

CHOTEAU

2031 (- 863)

KINDERHOOK SHALE

2144 (- 976)

BASE OF CHATTANOOGA SHALE-SIMPSON SAND

2219 (-1051)

2219-28 Sandstone, clean, clustered, friable, medium grained, rounded, part of sand with good oil staining, trace of free oil when wet, good odor. Much of sand white and barren.

DRILL STEM TEST #1 AT 2217-25

Tool open 30 mins., weak blow throughout, shut in 30 mins.
Tool open 30 mins., weak blow throughout, shut in 30 mins.

Recovered: 30 feet of muddy water with floating specks of dark oil, no free oil, water almost fresh.

First Open FP 20#
IBHP 760#/30 mins.
BH Temperature 98 °F

Second Open FP 40#
FBHP 750#/30 mins.

DRILL STEM TEST #2 AT 2220-28

Tool open 30 mins., weak blow throughout, shut in 30 mins.
Tool open 1 hour, weak blow throughout, shut in 30 mins.

Recovered: 115 feet of watery mud, slightly salty taste,
few specks dark oil.

First Open FP 22#-30#
IBHP 740#/30 mins.

Second Open 59#-65#
FBHP 711#/1 hour

2228-68 Sandstone, loose to loosely cemented, medium grained, white.
Apparent good porosity, no show.

ARBUCKLE

2268 (-1110)

2268-83 Dolomite, brown, crystalline to dense, cherty, trace oolitic chert.
No apparent porosity, no show.

TOTAL DEPTH

2283 (Rotary)
GRN Log to 2278 through drill pipe

Conclusions and Recommendations

The subject well is located approximately 3/4 mile southeast of a recent dry hole drilled in the NW NW NE of Section 23, known as #1 Gasche. Structural comparisons are referred to this dry hole.

At the base of the Kansas City the subject well checked 8 feet higher than the #1 Gasche, at the Mississippi Lime the #1 Wilson is flat with the #1 Gasche. At the top of the Kinderhook Shale this well is 11 feet higher than the #1 Gasche and at the unconformity at the base of the Chattanooga Shale the #1 Wilson is 15 feet higher than the #1 Gasche. Due to a 6-foot Viola wedge in the #1 Gasche the #1 Wilson is 21 feet higher than the #1 Gasche on the top of the Simpson Sand. In the Simpson we encountered an excellent sand body carrying considerable staining of light brown oil with good odor, 2219-28. Visually the porosity and quality of "show" was encouraging, however due to poor reservoir conditions we recovered no free oil and cannot prove the existence of any amount of water in the sand tested. The section below 2228 is absolutely barren.

Up the hole, in the Burgess Sand we encountered a good sand reservoir which was not expected. No shows were observed.

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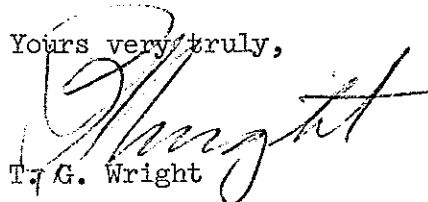
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January 13, 1975

In general, the #1 Wilson appears anomalous structurally although the Simpson reservoir obviously lacks permeability which may be a very local condition.

Since all "shows of oil" holding economic possibilities were tested with negative results the well was recommended abandoned as a dry hole.

Yours very truly,

A handwritten signature in cursive script, appearing to read "T. G. Wright", is written over the typed name.

T. G. Wright

TGW:bf

BIT RECORD

SECURITY S-84 (Reran)	59-1796
SECURITY S-88 (Rebuilt)	1796-2101
SECURITY S-88 (Rebuilt)	2101-2283 TD

DRILLING PROGRESS

1/2/75	Spud
1/3	55
1/4	59 WOC
1/5	1045
1/6	1690
1/7	1917
1/8	2067
1/9	2225
1/10	2283 TD D&A