

July 30, 1965

Re: GEOLOGICAL WELL REPORT

Kantor Oil Co. #3 Duerksen
C E/2 NE SW Section 5-T22S-R3W
Hollow-Nikkel Pool
Harvey County, Kansas
Contractor: Blackstone Drilling, Inc.
Spud: July 21, 1965
13" Surface casing @ 249'
5½" Production casing
Rotary Completion: July 29, 1965
Total Depth: 3811'

I. G. WRIGHT DONATION

1995

Kantor Oil Company
1720 First National Bank Building
Tulsa, Oklahoma 74103

Gentlemen:

Following are the pertinent geological tops, an evaluation of the porosities encountered and a record of all tests made at the captioned well.

I arrived at the location at a depth of 3415 feet and witnessed the drilling to 3538 feet where I left the well and returned at intervals to total depth 3811 feet. Samples were examined from 3100 feet to total depth. The hole was not logged electrically before being cased.

Enclosed herewith is a copy of the plotted drilling time log from 3100' to 3811 feet total depth, which also includes, lithology and other pertinent data.

Geological Tops ← CAPS

ELEVATION: 1461 K.B.

MISSISSIPPIAN LIMESTONE 3169 (-1708)

3169-3250 Primarily a chert section, tripolitic to fresh chert, with zones of minor porosity and staining. Also zones of white chalky to calcitic limestone. There are no zones of staining considered economic.

KINDERHOOK SHALE	3356 (-1895)	
MISENER SAND	3480 (-2019)	
3480-82		Clean, clustered, rounded, porous sand with oil staining in part.
HUNTON	3482 (-2021)	
3487-3509		Dolomite, tan to buff, medium to coarsely crystalline and sucrosic. Zones of good to excellent cavernous porosity, well oil stained and carrying good odor. Porosity and staining decreases toward base of zone.
DRILL STEM TEST #1	3484-91, 5 minutes pre-flow, weak blow, shut in 20 minutes. Open 1 hr., weak blow throughout. Shut in 20 minutes. Recovered 25 feet of heavy rotary mud, no show of oil, gas, or water. IFP 35#, FFP 17#, IBHP 647#/20 minutes, FBHP 647#/20 minutes.	
NOTE:		Bottom chart in tool plugged at approximately 650#, and remained plugged during entire test. Test considered to be a misrun.
MAQUOKETA	3515 (-2054)	
VIOLA	3609 (-2148)	
SIMPSON	3627 (-2166)	
3641-62 & 3672-96,		Clean, clustered, loosely cemented to loose sandstone, good porosity, no shows.
ARBUCKLE	3705 (-2244)	
3707-38		Dolomite, tan to buff, coarsely crystalline, good to excellent cavernous and inter-crystalline porosity. No shows.
3748-84		Dolomite, tan, medium crystalline, good cavernous porosity, no show.
3784-3811		Dolomite, buff, dense to coarsely crystalline, streaks of good porosity.
TOTAL DEPTH	3811	

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Conclusions and Recommendations

Structurally, at the top of the Hunton the subject well is perhaps slightly lower than expected. However, the structural position is considered adequate within the "flood area". The porosities are excellent and of sufficient thickness. It is recommended that after a radio-active logging program the porous section within the Hunton be evaluated on the basis of the sample analysis and the mechanical log, but that perforations be restricted to the upper 8 to 10 feet of Hunton porosity.

The hole was drilled to Arbuckle porosity in the event it might at a later date be converted to salt water disposal.

It was recommended that production casing be landed in the upper portion of the Arbuckle.

Yours very truly,

T. G. Wright

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Drilling Progress

7-21	Spud
7-22	1830' <i>For</i>
7-23	2555' <i>Set</i>
7-24	2880' <i>Run</i>
7-25	3250' <i>run</i>
7-26	3410'
7-27	3590'
7-28	3677'
7-29	3811' TD, Running casing

Bit Record

Reed	YT1A	245- 945
Reed	YHG	945-1220
Reed	YT1A	1220-1780
Hughes	OWV	1780-1980
Security	M4N	1980-2200
Security	M4N	2200-2565
Reed	YM	2565-2850
Reed	YSI	2850-3180
Reed	YHWG	3180-3262
Reed	YHG	3262-3310
Reed	YHG	3310-3362
Reed	YTL	3362-3491
Reed	YTL	3491-3643
Reed	YHG	3643-3660
Reed	YH	3660-3695
Reed	YH	3695-3811 TD