

May 4, 1967

GEOLOGICAL WELL REPORT

Kantor Oil Co. #9 Neufeld,
SW SE NW Section 8-T22S-R3W,
Hollow-Nikkel Area, Harvey County,
Kansas.

Contractor: Blackstone Drilling, Inc.

Spud: April 19, 1967

Surface Casing: 13" @ 306'

Casing: 7" @ 3780+

Rotary Completion: May 3, 1967

Total Depth: 4371'

Kantor Oil Company
1720 First National Bank Building
Tulsa, Oklahoma

Gentlemen:

Listed below are the pertinent geological tops below 3100 feet, and an evaluation of the porosities encountered. No drill stem tests were made and the hole was not logged electrically being cased for salt water disposal. Samples were examined from 3150-4371 T.D.

I witnessed the drilling at intervals during the drilling of Pre-Mississippian, rocks including Hunton, upper Simpson, upper Arbuckle and basal Arbuckle-Granite wash.

Enclosed herewith is a copy of the plotted drilling time log from 3100 to T.D., which also includes lithology, geological tops, porous zones and other pertinent data.

SAMPLE TOPS

ELEVATION:	1456 K.B. (Est.)
MISSISSIPPIAN "Chat"	3168 (-1712)
3173-89	Chert, white tripolitic, porous, with scattered oil stains, minor tan, sucrosic dolomite.
KINDERHOOK SHALE	3358 (-1602)
MISENER SAND	3467 (-2011)

HUNTON	3470 (-2014)	
	3490-3500	Dolomite, tan, sucrosic to medium crystalline, some good cavernous porosity, well oil stained, good odor.
MAGUOKETA	3501 (-2045)	
VIOLA	3610 (-2154)	
SIMPSON	3630 (-2174)	
SIMPSON SAND	3637 (-2181)	
	3637-57	Sandstone, medium grained, rounded, clean, porous, no show.
	3685-3714	Sandstone, medium coarse, loose to loosely cemented, good porosity, no show. Thin green shales in basal portion.
ARBUCKLE	3714 (-2258)	
	3714-73	Dolomite, tan to buff, medium to coarsely crystalline and dense. Streaks of good cavernous porosity, no shows.
	3841-50	Coarsely crystalline, buff dolomite, with streaks of cavernous porosity.
	3960-4036	Dolomite, tan coarsely crystalline, cherty zones, streaks of good cavernous porosity. Zone 4027-36 oolitic and very porous.
	4125-4238	Dolomite, light tan, cherty and sandy in streaks, coarsely crystalline, thick zones of excellent cavernous porosity.
	4348-4302	Light colored, coarsely crystalline dolomite, in part sandy. Thick zones of good porosity.
	4302-44	Primarily rounded medium coarse sandstone, porous.
	4344-73	Granite wash, angular sands and arkose. Probably porous.
TOTAL DEPTH	4371	

CONCLUSIONS AND RECOMMENDATIONS

From sample analysis of the Arbuckle and older rocks, as above described it would appear that sufficient porous sections exist to furnish an adequate salt water disposal facility.

It was recommended that 7" casing be cemented within the interval 3755-88.

Yours very truly,

T. G. WRIGHT

BIT RECORD

Hughes	OWVJ Retip	560- 940
Reed	YM Retip	940-1135
Security	S4J Retip	1135-1618
Reed	YSIJ Retip	1618-2010
Hughes	OWVJ Retip	2010-2250
Security	M4NJ Retip	2250-2670
Security	M4NJ Retip	2670-2850
Security	M4N	2850-3030
Button Bit Repaired		3030-3188
Reed	YS1G	3188-3302
Reed	YS1	3302-3385
Reed	YVWG	3385-3612
Security	H7G	3612-3656
Security	H7G	3656-3689
Security	H7G	3689-3811
Security	H7G	3811-3939
Security	H7G	3939-4005
Security	H7G	4005-4148
Security	H7G	4148-4319
Security	H7G	4319-4371 T.D.

DRILLING PROGRESS

4/19	Spud
4/20	690
4/21	1620
4/22	2285
4/23	2800
4/24	3095
4/25	3312
4/26	3547
4/27	3632
4/28	3811
4/29	3939
4/30	4005
5/1	4148
5/2	4316
5/3	4371 Run casing