

**T. G. WRIGHT**

*Consulting Geologist*

620 FOURTH FINANCIAL CENTER

WICHITA, KANSAS 67202

December 1, 1975

GEOLOGICAL WELL REPORT

William Gruenerwald & Associates, Inc.

#7 Gibbons, N/2 SW SW Section 36-T27S-R13W

Rolingson Pool, Pratt County, Kansas

Contractor: Damac Drilling Co., Inc.

Spud: November 12, 1975

13 3/8" @ 191'

5 1/2" @ 4380'

Rotary Completion: November 21, 1975

Total Depth: 4385' (Rotary) 4379' (E. Log)

William Gruenerwald & Associates, Inc.

P. O. Box 909

Colorado Springs, Colorado 80901

Gentlemen:

Listed below are the pertinent geological tops and an evaluation of the porosities encountered. No drill stem tests were taken. The hole was logged electrically before being cased, electric log data included herein.

I arrived at the location at a depth of 2065' and witnessed the drilling at intervals from that point to T.D. 4385'. Samples were examined from 1900-2800 and 3700-4385 T.D.

Enclosed herewith is a copy of the plotted drilling time log which also includes tops, porous zones, and other pertinent data.

ELECTRIC LOG TOPS

ELEVATION 1885 KB (Estimated)

RED EAGLE LIMESTONE POROUS ZONE 2622-28

NOTE: Believed to be "gas pay" in offsetting lease.

HEEBNER SHALE 3564 (-1679)

BROWN LIME 3746 (-1861)

LANSING-KANSAS CITY 3764 (-1879)

BASE OF KANSAS CITY 4116 (-2231)

William Gruenerwald & Associates, Inc.  
#7 Gibbons

-2-

December 1, 1975

MISSISSIPPIAN CHERT	4217	(-2332)
VIOLA CHERT	4264	(-2379)
SIMPSON SHALE	4316	(2431)
Sand	4346	(-2461)
4346-58	Sandstone, clean, clustered, medium grained, friable. Good porosity completely oil stained.	
TOTAL DEPTH	4385	(Rotary) 4379 (Electric Log)

#### CONCLUSIONS AND RECOMMENDATIONS

The subject well, using an estimated surface elevation correlates well structurally with other wells on the lease and appears normal. The Simpson Sand is well developed but I feel the effective sand is limited to the interval 4346-58 and perforations should be restricted to 4346-51 in my opinion.

The up-the-hole gas section being produced in the Hillard lease offsetting you to the south is in the Red Eagle Limestone of the Council Grove Group in the lower Permian. It appears a correlative zone 2622-28 occurs in this well. Before testing the zone we should research this further. 5 1/2" casing was landed at 4380 to test the Simpson Sand and possibly the Red Eagle Lime.

Yours very truly,

T. G. Wright

TGW:bf

BIT RECORD

SMITH DT2	191-1960	
SMITH F3	1960-4385	TD

DRILLING PROGRESS

11-12	SPUD	
11-13	575	
11-14	1960	
11-15	2580	
11-16	3120	
11-17	3650	
11-18	4040	
11-19	4318	
11-20	4385	TD Logging
11-21	4385	TD WOC 5 1/2"

# Log Analysis

3-11-75

COMPANY  
Wm Gruenewald & Associates Inc.

WELL  
Gibbons #7

FIELD  
Rollinson

COUNTY  
Pratt

STATE  
Kansas

DEPTH	Rt	Rw	$\Phi_D$	$\Phi_N$	$\Phi_S$	% POROSITY	% WATER	REMARKS
2186-90	2	0.07	20	26	17.3	23	61	
622-28	12-25	"	18-7	24-14	17.3-9.22	10.5	21-100	
136-49	25-11	"	4-11	16-15	5-11.4	7-10	40-46	Tite at top
132-34	10	0.05	16	19	7.8	17.5	40	
34-36	19	"	14	12	6.3	13	39	
972-74	7	"	11	11	5	11	77	
982-86	12-5	"	16	16	6.3	16	46-63	
86-90	5-10	"	14-10	14-10	6.3	14-10	71	
1010-14	9-2	"	18	20	13.6	19	39-83	
9164-66	15	"	4	4	4	4	100	
66-68	60	"	11	7	5	9	32	
68-73	40-15	"	12	10	8.3	11	32-52	
73-80	15-5	"	10	14	12	12	48-80	
1218-26	20	"	14	10	10.7	12	42	
26-30	18	"	11	11	10	11	48	
30-40	19	"	8	11	10	9.5	51	
1266-70	10	"	5	5	5	5	100	
70-74	8	"	12	12	13.6	12	66	
74-76	6	"	10	18	14	14	65	
76-82	6	"	14	14	13.6	14	65	
82-85	6	"	17	17	18	17	54	
85-88	5	"	18	20	18	19	53	
88-90	4.5	"	20	22	20	21	50	
90-94	4	"	16	19	16.5	17.5	64	
94-98	5	"	13	16	13.6	14.5	69	
98-4302	4.5	"	19	20	16.5	19.5	54	
346-50	30	0.06	12	4	4.8	8	50	Gas effect
50-54	15	"	16	7	7.1	11	52	" "
54-60	15	"	12	6	5.6	9	63	
60-66	21	"	8	4	4.1	6	80	Tite

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

DATE  
11-21-75

LOCATION  
Wichita, KS

ENGINEER  
Langenbuch