

JAMES I. DANIELS
PETROLEUM GEOLOGIST

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205 BROWN BUILDING
WICHITA, KANSAS
AMHERST 5-0614

JAMES R. DANIELS
GEOLOGICAL ENGINEER

October 1, 1958

Dunne-Gardner Drilling Company
Wichita, Kansas

Re: Dunne-Gardner Drilling Company
Law No. 1
SW-SW-EE Sec. 2-T10S-R23W
Graham County, Kansas

Gentlemen:

Herewith is a report based on the examination of the cuttings from the well captioned above. I have examined all of the cuttings from 3400 to the total depth and was present at the well during the drilling from 3490 to the total depth.

Note: All depths were measured from the Kelly bushing which was 3 feet above the rig floor and 5 feet above ground level.

Elevation: 2442 Kelly bushing.

3497 (-1055) Top of Topeka Lime

3528 to 3540 - Fine granular limestone with microscopic porosity and no oil stain.

3546 to 3560 - Fine granular limestone with minute porosity and no oil stain.

3713 (-1271) Top of Heebner Black Shale

3733 (-1291) Top of Toronto Limestone

3748 (-1306) Top of Lansing-Kansas City Lime

3751 to 3755 - Limestone, oolitic and slightly oolitic with very poor porosity and no oil stain.

3827 to 3832 - Limestone with a little oolitic porosity and spotted stain of black, low gravity oil. (This zone has been drill-stem tested in nearby wells at a higher structural elevation and water was recovered.)

3904 to 3910 - Limestone with a few small vugs with a slight stain of brown oil.

3918 to 3922 - Limestone, with fair to poor minute to microscopic porosity and a little free oil in the pores.

3922 to 3927 - Limestone, with a little spotted, poor porosity and a slight oil stain.

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<u>Drill Stem Test No. 1</u>	3895 to 3940
Open:	44 minutes
Blow:	Very weak for 11 minutes and then quit.
Recovered:	7 feet of drilling mud with no oil or water.
Flow Pressures:	11 pounds to 16 pounds.
Initial Shut-in Pressure:	55 pounds in 30 minutes.
Final Shut-in Pressure:	71 pounds in 30 minutes.
Temperature:	108 degrees.

3942 to 3945 - Limestone with microscopic porosity and some stain of black, low gravity oil.

3968 (-1526) Base of Kansas City Limestone

4070 (-1628) Top of "Marmaton Conglomerate"

4070 to 4101 - Light, cream colored chert and some limestone. There was a little red chert right at the top of this section.

There was no Cherokee Sand present.

4174 Total Depth

A Gamma Ray-Laterlog-Sonic log was run at 4174, and the data from this record and the sample examination indicated that there were no zones worthy of further testing.

It was recommended that the well be abandoned.

Respectfully submitted,

James I. Daniels
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DRILLING TIME LOG

Dunne-Gardner Drilling Company
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 Graham County, Kansas

Location: SW-SW-SE
 Bushing 3 feet above rig floor &
 5 feet above ground level.

Depth	Time in minutes	Remarks
3400-10	10-10-14-16-11-10-8-9-10-9	
3410-20	7-8-8-10-9-6-6-6-7-7	
3420-30	6-9-9-8-8-9-10-9-9-8	
3430-40	8-10-10-8-8-10-10-10-8-7	
3440-50	7-8-4-3-4-3-2-2-3-4	
3450-60	4-5-9-7-9-8-8-7-7-6	
3460-70	4-3-2-2-2-4-3-5-5-5	
3470-80	2-2-2-3-2-2-3-2-3-2	
3480-90	2-3-3-2-3-4-4-4-5-4	
3490-3500	4-4-4-4-5-6-6-9-8-9	
3500-10	10-11-9-8-11-10-6-11-11-9	
3510-20	9-8-8-9-10-9-8-8-8-7	
3520-30	8-9-9-7-9-10-10-16-9-7	
3530-40	8-5-5-4-4-4-5-4-5-5	
3540-50	9-11-9-10-16-14-6-7-8-5	
3550-60	7-7-5-3-2-3-5-5-6-7	
3560-70	12-12-10-10-6-5-9-9-6-7	
3570-80	8-7-8-8-12-11-12-12-12-5	Trip @ 3579 - SV-2 Bit.
3580-90	3-5-5-5-6-5-5-5-4-4	
3590-3600	3-2-2-4-6-7-8-8-7-5	
3600-10	5-6-7-6-5-5-6-8-8-7	
3610-20	6-6-9-7-7-6-6-4-4-4	
3620-30	3-2-4-4-5-6-6-5-7-8	
3630-40	8-8-10-14-11-12-4-4-5-4	
3640-50	4-4-4-3-3-3-4-2-2-4	
3650-60	4-5-5-6-9-5-4-4-4-4	
3660-70	4-5-4-2-2-6-4-5-5-8	
3670-80	11-12-10-9-6-4-4-2-2-2	
3680-90	2-1-2-6-7-5-5-5-5-5	
3690-3700	5-5-5-5-6-7-8-6-7-7	
3700-10	7-9-7-5-6-9-9-8-7-7	
3710-20	8-10-11-7-5-7-9-14-24-15	
3720-30	9-9-6-6-5-5-5-6-8-8	
3730-40	7-6-7-9-9-10-10-10-9-10	
3740-50	11-14-20-15-7-6-7-8-10-13	
3750-60	10-7-6-6-6-9-8-10-8-7	
3760-70	8-9-9-6-7-9-9-10-6-10	
3770-80	11-12-12-9-12-10-13-13-10-7	
3780-90	7-7-7-8-6-9-8-12-12-13	Trip @ 3790 - SV-2 Bit.
3790-3800	7-9-8-6-6-5-6-12-12-14	

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Depth	Time in minutes	Remarks
3800-10	7-13-10-8-8-9-6-7-8-7	
3810-20	7-7-7-8-7-7-4-6-9-8	
3820-30	5-4-5-5-8-10-8-6-5-6	
3830-40	5-5-6-6-5-5-5-5-5-5	
3840-50	4-6-8-6-4-5-5-8-7-10	
3850-60	11-7-8-8-9-9-8-9-10-9	
3860-70	9-10-10-10-17-6-10-13-10-12	
3870-80	10-4-15-10-11-11-6-7-7-7	
3880-90	7-5-7-12-11-8-10-8-16-13	
3890-3900	15-15-15-8-15-17-12-13-15-18	
3900-10	7-8-7-6-11-10-9-9-10-10	
3910-20	15-12-12-9-6-7-6-7-8-8	
3920-30	9-8-15-12-10-10-10-11-10-9	
3930-40	9-8-6-8-7-8-10-7-10-8	
3940-50	7-7-4-3-5-7-8-9-9-14	
3950-60	7-9-6-5-5-5-7-6-8-8	
3960-70	6-6-10-5-9-10-11-12-7-6	
3970-80	10-8-9-7-4-6-7-7-4-5	
3980-90	3-6-7-4-3-3-4-4-2-3	
3990-4000	4-2-3-3-4-4-3-6-5-6	
4000-10	4-5-5-9-8-10-10-6-6-3	
4010-20	5-5-5-8-5-4-3-5-6-6-8	
4020-30	7-7-7-7-8-8-7-9-10-8	
4030-40	8-10-8-8-7-9-8-10-8-6	
4040-50	8-10-9-8-8-10-10-10-7-7	
4050-60	9-12-18-10-12-12-10-13-9-8	
4060-70	9-8-10-10-11-10-8-13-15-10	
4070-80	6-8-8-9-10-7-7-7-7-5-8	
4080-90	5-8-6-8-6-8-4-8-6-8-7-13-12-17	
4090-4100	23-17-9-8-9-10-13-13-11-11	
4100-10	12-18-23-27-27-7-8-10-10-9-9	
4110-20	9-9-12-10-9-8-8-9-8-8	
4120-30	7-6-10-11-9-12-8-10-8-11	
4130-40	9-10-10-11-9-10-9-7-10-10	
4140-50	11-10-10-8-8-9-9-9-9-9	
4150-60	9-11-12-12-10-12-9-10-9-11	
4160-70	10-10-10-11-14-10-11-10-11-11	
4170-74	10-10-13-10	
		Total Depth 4174.
		DET #1 3895 to 3940. Circ. @ 3940. Trip @ 3940 (M-4-N)
		Trip @ 4053 (W-7). Lost returns at 4054.
		Trip @ 4105. (OWV). Repair Torque Converter at 4105.