

23-17-9W

LEE H. CORNELL

Petroleum Geologist

TELEPHONE AMHERST 2-3921

ORPHEUM BUILDING

WICHITA, KANSAS, 67202

August 25, 1964

Northeastern Petroleum
2400 N. Main St.
Hutchinson, Kansas

Re: No. 1 Dees
SW SW NW 23-17-9W
Ellsworth County, Kansas

Gentlemen:

Drilling progress at the captioned well was observed from 2660 to 3220', total depth. One foot drilling time was kept from 2600' to total depth and five foot samples were saved and examined from 2700' to total depth. Samples were delivered to the Kansas Well Sample Bureau in Wichita.

MISCELLANEOUS DATA

Contractor: Triple D Drilling.
Surface Casing: 8 5/8" set at 232', cemented with 150 sacks.
Oil String: 4 1/2" set at 3219', cemented with 125 sacks.
Centralizers at: Top for 1st and 3rd Joints from bottom.

Pipe Strap at 2714

Strap 2720.39
Board 2719.47
Difference .92
(no correction made)

FORMATION TOPS (by Electra)

Elevation 1769 KB

Heebner	2718	(- 949)
Iatan	2836	(-1067)
Lansing	2855	(-1086)
Simpson Shale	3178	(-1409)
Simpson Sand	3185	(-1416)
Arbuckle	3189	(-1420)
Total Depth	3220	(-1451)

Note: Electric log tops are used for all measurements and depths in this report.

Structural Position

On top of the Arbuckle (-1420) No. 1 Dees is from 10 to 15 feet lower than the nearest old Arbuckle producers in the NW/4 of section 23; it is from 26 to 30 feet lower than the nearest Arbuckle producers 1/2 mile southwest in the SE/4 of section 22 (See structure map with this report).

Lansing Section

- 2887-92 "30 Foot Zone" Limestone, oolitic, no odor, no free oil, no stain. 7½ to 10% porosity, 63 to 70% water saturation by Electra. Zone of no value.
- 2958-70 "90 Foot Zone" Limestone, highly oolitic, no odor, no free oil, no stain. 30% porosity, 32 to 48% water saturation by Electra. Zone of no value.
- 3050-52 Dennis Limestone Zone. Limestone, oolitic, fair show of free oil, possible faint odor, partial to complete staining. 12% porosity, 55% water saturation, no permeability by Electra.

Miller DST No. 1, 3031-50: Open 35 min., no blow, recovered 10 feet of mud with occasional spots of oil.

ICIP 980#/30 min.; FCIP 695#/30 min.; IFP 40#, FFP 60#.

Note: A zone of low porosity limestone with a very small of dark free oil from 3031-36 was covered in DST #1.

Neither of the two zones above have sufficient porosity and permeability to warrant testing.

Simpson Section

- 3172-85 Shale, bright green.
- 3185-87 Sandstone, medium grained, angular, friable, good odor, small show of free oil, good staining. 29% porosity, 25% water saturation by Electra.
- 3187-89 Green shale.

Arbuckle Section

3189-91 Dolomite, medium crystalline, trace white tripolitic chert, trace oolitic chert. Good odor, small show of live, free oil, fair staining. 12% porosity, 55% water saturation by Electra.

Miller DST No. 2, 3177-91: Open 1 hour, weak blow increasing to strong blow. Recovered 600' of gas in pipe, 480' of clean oil, 180' of muddy oil, no water. ICIP 1070#/30 min., FCIP 960#/30 min., IFP 40#, FFP 220#. Gravity of oil 45 at 59 degrees.

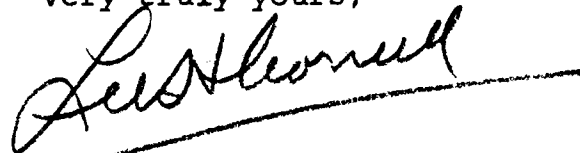
3191-3220 Dolomite, medium to coarse crystalline, scattered show of free oil, scattered light stains, diminishing with depth. Porosity varied from 9% to 21% and water saturation from 20 to 50% by Electra.

After the recovery of oil in DST #2, it was recommended that No. 1 Dees be drilled through the pay section and that casing be set 1 foot off bottom and the well be completed through perforations.

It is recommended that the Simpson Sandstone from 3185-87 be perforated with 4 shots per foot and tested. If sufficient oil is found in the Simpson Sandstone to make a commercial well, it is recommended that the well be completed without perforating the Arbuckle. If the Arbuckle is perforated in the original completion or at a later date, it is recommended that only the top 2 feet from 3189-91' be perforated with 4 shots per foot. This recommendation is made due to the low structural position of the Arbuckle and the probable proximity to Arbuckle water.

It is further recommended that No. 1 Dees be tested for a period of 30 to 60 days before an additional well is drilled on this lease.

Very truly yours,



LEE H. CORNELL,
Petroleum Geologist.

LHC/mlb
encls.

Northeastern Petroleum - No. 1 Dees

page two

2900 - 2910 9-8-9-4-3-3-10-7-6-7
 2920 7-8-7-5-10-10-5-6-6-4
 2930 4-4-9-12-10-10-9-7-8-7
 2940 4-3-3-3-2-2-4-3-6-3
 2950 5-4-8-8-10-11-11-9-9-10
 2960 7-5-10-8-1-1-1-1-1-1
 2970 1-1-1-1-1-1-1-1-2-3-3 *Circ. 72 mins @ 2965
 2980 9-5*-10-10-9-10-8-11-9-10 *SR at 2972
 2990 10-10-9-9-10-9-9-8-7-8
 3000 9-10-10-8-8-12-4-6-11*-5 *Trip, 2999 OWV1
 Note: It appears that 5' to 6' of hole was made
 and not recorded after trip at 2999'
 3000 - 3010 5-7-6-5-3*-7-4-6-9-8 *SR, 3005
 3020 8-8-6-6-3-4-8-7-3-3* *SR, 3020
 3030 4-4-4-5-6-5-7-5-7-7
 3040 6-6-7-8-8-4*-3*-9-8-6 *SR, 3036-37
 3050 5-6-5-5-5-2-2-3-7-7
 3060 4-4-5-5*-8-9-7-7-5-8 *Circ. 1 hr & DST #1 @ 3054
 3070 6-7-7-6-6-6-8-6-5-6
 3080 6-6-5-3*-3*-4-2*-4-5-6 *SR @ 3074-75; SR @ 3077
 3090 6-6-7-7-6*-8-6-8-8-7 *SR @ 3085
 3100 8-8-6-4-5-8-9-6-8-7
 3100 - 3110 9-6-6-6-5-5-5-5-6-4
 3120 6-5-3*-6-6-8-6-9-7-6 *SR @ 3113
 3130 9-7-9-8-7-8-7-7-7-10
 3140 8-8-8-8-5-5-6-8-4-5
 3150 10-9-12-10-8-9-8-8-8-9
 3160 8-5*-5*-5-6-5-7-6*6-4 *SR @ 3152-53; SR @ 3158
 3170 4-4-4-4-4-4-3-6-6-8* *Circ. 38 min. @ 3170
 3180 8-8-5*-5*-5*-4-4-5*-5-5* *SR @ 3173, 74, 75; Circ. 78 min.
 @ 3175; SR, 3178;
 Circ. 67 min. @ 3180
 3190 3-2*-4-6-8*-2-3-5-3-3 VSR @ 3182; Circ. 1 hr &
 DST#2, 3185; YSi retip
 3200 4-4-5-4-5*-4-4-5-3-3 *Circ. 30 min. @ 3195
 3200 - 3210 2-5-5-4*-6-6-6-5-5-3
 3210 - 3215 5-3-2-4-6* (Circ. 1 hr @ 3215
 RTD

Note: Electric log TD 3220'.
 Difference probably due to 5 feet of
 unrecorded hole made after trip at 2999'

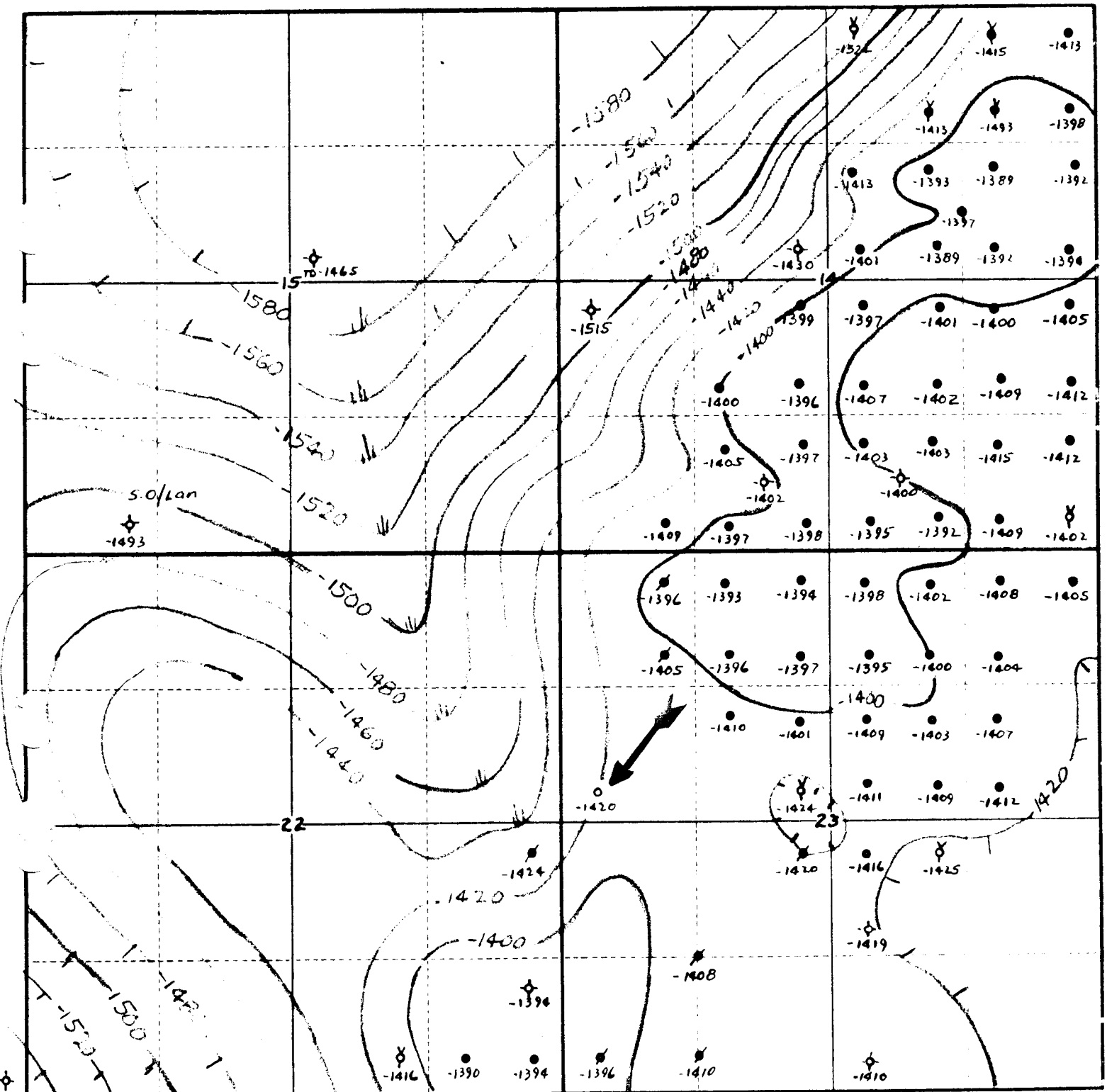
23-17-9w

Northeastern Petroleum
 No. 1 Dees
 SW SW NW 23-17-9W
 Ellsworth Co., Kansas
 Elevation: 1769' KB

		<u>TIME LOG</u>	<u>Remarks:</u>
<u>FROM</u>	<u>TO</u>		
2600	- 2610	5-7-6-6-7-7-7-6-7	
	2620	7-7-8-10-8-8-8-6-5-6	
	2630	7-9-9-8-9-7-6-6-6-7	
	2640	7-5-5-4-4-3-3-6-7-6	
	2650	8-8-6-6-6-5-6-8-7-4	
	2660	5-4-5-4-6-5-7-5-5-4	
	2670	6-8-5-6-6-8-6-9-5-3	
	2680	3-4-4-6-8-4-4-5-6-7	
	2690	6-9-9-9-10-8-10-10-8-8	
	2700	9-6-7-7-6-6-9-6-6-6	
2700	- 2710	7-7-5-6-6-5-8-7-8-7*	*Trip 2710 YSlR
	2720	9-10-13-16-4-4-4-2-3-7	<u>Pipe Strap</u> Strap 2720.39
			Board 2719.47
			Difference .92
			(no correction made)
			*SR @ 2722, 24, 25
	2730	7-5*-6-5*-5*-3-4-4-4-5	
	2740	5-6-5-4-5-4-4-4-6-5	
	2750	5-7-4-3-4-6-7-5-5-4	
	2760	5-5-4-5-3-4-4-4-4-4	
	2770	3-4-4-3-3-3-3-3-3-3	
	2780	3-3-3-3-3-3-3-3-3-3	
	2790	2-2-2-3-3-3-3-2-4-3	
	2800	3-3-2-3-3-2-2-3-2-2	
2800	- 2810	3-4-5-5-4-4-4-3-3-2	
	2820	2-3-3-2-3-3-2-3-3-2	
	2830	3-3-3-3-3-3-3-2-3-2	
	2840	3-3-2-8-12-6-6-5-5-4	
	2850	5-4-5-5-4-3-4-4-4-5	
	2860	4-4*-5-6-4-4-5-4-5-4	*SR, 2752
	2870	9-7-6-7-8-7-7-8-8-6	
	2880	6-6-5-3-5-9-9-4-4-4	
	2890	4-5-6-4-4-4-4-3-5-8*	*Circ. 36 min. at 2890
	2900	11-10-9-12-9-9-8-5-3-5	

17-9W

Township 17s Range 9w County Ellsworth State Kansas



FORM 45

Top of the Arbuckle
Contour Interval - 20ft.

Lee H. Horner