

GEOLOGICAL REPORT

LEBEN DRILLING, INC.

NO. 1 C. JONES

NW NW NE 22-7E-26N

SHERIDAN COUNTY, KANSAS

C. W. SMITH

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PETROLEUM GEOLOGIST

May 29, 1958

Leben Drilling, Inc.
905 Central Building
Wichita, Kansas

Re: Leben Drilling, Inc.
No. 1 C. Jones
NW NW NE 22-7E-20N
Sheridan County, Kansas

Gentlemen:

The following is a Geological Report, with a Time Log attached, on the above captioned well.

I was present during the drilling from 3680' to 4080', rotary total depth. Samples were examined from 3500' to rotary total depth.

All formation tops and zones of porosity and staining are based on rotary bushing measurements.

Elevation	2626' DF — 2629 RB
Anhydrite	2325 (+ 304)
Heebner	3822 (-1193)
Toronto	3846 (-1217)
Lansing-Kansas City	3866 (-1237)
Base of Kansas City	4074 (-1445)
Rotary Total Depth	4080 (-1451)

Structurally, the Leben No. 1 C. Jones ran 17' lower than the Anschutz No. 1 Webb, dry hole in Section 21, and 3' lower than the J.B. & F. No. 1 Barnett, dry hole in Section 24.

ZONES OF INTEREST

LANSING-KANSAS CITY

There were no shows of oil in the Lansing-Kansas City formation. The following is a lithological description of zones of porosity noted on the electric log.

- 3958-3960 White to gray, finely crystalline limestone with barren, pinpoint porosity. Log calculates 11% porosity, and 51% water saturation.
- 3992-3996 Buff dense limestone with scattered, vugular, barren porosity. Log calculates 9 1/2% porosity and 56% water saturation.

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4046-4048 Buff dense limestone. Trace of barren vugular porosity. Log calculates 8½% porosity, 50% water saturation.

After a Schlumberger ES-Micro lateral-Induction Log was run, and the above calculations were made, it was recommended that the well be plugged and abandoned.

Sincerely,


C. W. Smith

CWS:bfs

DRILLING INFORMATION ON THE NO. 1 C. JONES

Contractor: Leben Drilling, Inc.

Toel Pusher: Dan Helmer

Drillers: Neal

Stanley

Wallace

Spud Date: Surface Set Ahead

Date of RTD: 5-29-58

Surface Pipe: 8 5/8" @ 233'

Casing: None

TOTAL FOOTAGE DRILLED PER DAY

Under surface at 6:00 a.m. on 5-21-58

310'	at	7:30 a.m.	on	5-21-58
1797'	"	"	"	5-22-58
2290'	"	"	"	5-23-58
2920'	"	"	"	5-24-58
3270'	"	"	"	5-25-58
3520'	"	"	"	5-26-58
3795'	"	"	"	5-27-58
3940'	"	"	"	5-28-58
4080'	"	"	"	5-29-58

BIT RECORD

<u>Bits</u>	<u>Type</u>	<u>Footage</u>
1	Sec. S3-J Retip	233-1300
2	Sec. S-6 Retip	1300-1797
3	Sec. M4N Retip	1797-2330
4	Sec. M4N	2330-2885
5	Smith SV2	2885-3195
6	HTC OWV	3195-3340
7	HTC OWV	3340-3705
8	Reed ISI	3705-3943
9	HTC OWV	3943-4080

DRILLING TIME LOG

Leben Drilling, Inc.
No. 1 C. Jones

NW NW NE 22-7S-26W
Sheridan County, Kansas

Elevation: 2626 DF
2629 RB

DEPTH	MINUTES	REMARKS
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1 Foot Drilling Time from 3500' to RTD

3501-3510	5-3-4-5-5-3-3-4-5-3
3520	3-3-3-2-3-5-5-4-4-4
3530	5-5-4-5-4-3-3-4-4-3
3540	4-4-4-4-3-3-2-2-5-6
3550	4-5-3-3-1-2-3-4-5-5
3560	4-4-5-5-5-4-5-6-4-4
3570	3-5-4-2-2-2-2-3-6-6
3580	6-7-6-7-6-5-5-5-5-5
3590	4-4-5-5-4-5-6-6-6-7
3591-3600	8-8-7-7-7-7-6-5-3-3
3610	4-6-5-5-5-7-6-6-5-5
3620	5-5-6-6-6-4-3-3-3-4
3630	4-6-6-5-6-6-5-6-6-7
3640	7-8-5-1-1-3-5-6-8-9
3650	8-9-9-7-5-5-4-5-5-4
3660	3-4-4-3-3-4-6-8-9-8
3670	4-5-6-6-6-8-6-6-6-5
3680	5-4-3-3-3-4-3-5-4-3
3690	3-3-3-4-4-5-4-3-4-3
3691-3700	2-3-3-3-2-3-3-4-5-3
3710	3-3-5-5-10-5-5-4-5-5
3720	5-5-5-6-5-4-3-3-2-3
3730	2-1-2-1-1-2-1-1-1-2
3740	1-1-1-1-1-1-1-1-2-2
3750	1-1-4-5-6-5-5-4-5-4
3760	3-2-2-2-2-3-4-5-6-5
3770	5-4-4-4-5-4-5-4-4-4
3780	4-3-5-5-6-5-5-4-4-4
3790	6-6-4-3-4-6-4-3-2-3
3791-3800	2-2-3-7-8-8-10-10-8-6
3810	4-4-4-3-2-2-2-4-4-2
3820	2-4-10-7-8-6-4-4-4-4
3830	6-5-3-4-6-6-8-6-7-6
3840	6-11-7-8-7-7-7-5-7-9
3850	9-9-9-11-12-10-12-10-4-4
3860	4-5-4-4-8-8-8-10-13-12
3870	12-15-12-12-11-8-8-5-9-9
3880	8-9-8-7-7-7-5-5-4-5
3890	8-9-10-11-7-7-9-10-9-9
3891-3900	8-9-10-9-9-8-9-5-9-11
3910	12-6-5-5-5-7-7-7-8-10
3920	10-7-8-10-11-11-11-10-9-8

Circ. @ 3874' for 1 hour

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DRILLING TIME LOG

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No. 1 C. Jones

NW NW NE 20-7S-26W
Sheridan County, Kansas

Elevation: 2626 DF
2629 RB

DEPTH	MINUTES	REMARKS
3921-3930	10-12-12-12-12-11-12-12-10-11	
3940	12-12-13-10-11-11-11-11-11-9	
3950	12-12-12-7-6-6-4-4-3-3	Trip @ 3943'
3960	4-8-7-7-6-5-4-4-4-4	
3970	4-3-3-3-4-4-4-5-7-5	
3980	4-4-4-6-5-8-9-5-6-10	
3990	9-9-8-8-8-8-8-8-8-8	
3991-4000	7-8-6-5-5-6-6-8-12-9	
4010	9-11-11-11-10-10-11-10-12-13	
4020	11-10-8-8-7-7-7-9-9-9	
4030	9-7-6-8-5-8-8-10-10-9	
4040	8-10-10-8-9-8-8-7-7-7	
4050	7-7-8-7-8-8-6-7-8-8	
4060	10-9-8-6-9-10-8-8-9-9	
4070	9-10-6-6-7-6-5-9-9-9	
4080	9-6-7-9-7-9-7-9-8-8	

Rotary Total Depth - 4080'