

OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

April 9, 1980

Harold Erbert
Rural Route 2
Iola, Kansas 66749

Gentlemen:

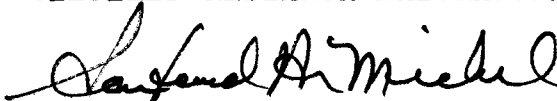
Enclosed herewith are the results of tests run on the rotary core taken from the Lickteig Lease, Well No. 3, Bourbon County, Kansas, and submitted to our laboratory on March 26, 1980.

The core was sampled by a representative of Oilfield Research Laboratories after it was received in the laboratory. The core had been out of the well and exposed to air approximately twenty hours before being sampled.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem
4 c to Iola, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Harold Erbert Lease Lickteig Well No. 3
 Location 165' FWL & 670' ESL SW
 Section 32 Twp. 23S Rge. 22E County Bourbon State Kansas

Elevation, Feet	
Name of Sand	Bartlesville
Top of Core	648.0
Bottom of Core	669.0
Top of Sand	648.0
Bottom of Sand	667.0
Total Feet of Permeable Sand	15.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 30	3.0	3.0
30 - 100	4.3	7.3
100 - 200	3.1	10.4
200 - 250	2.8	13.2
250 & Above	1.8	15.0

Average Permeability Millidarcys	126.8
Average Percent Porosity	20.0
Average Percent Oil Saturation	14.4
Average Percent Water Saturation	38.6
Average Oil Content, Bbls./A. Ft.	222.
Total Oil Content, Bbls./Acre	3,323.

OILFIELD RESEARCH LABORATORIES

LOG

Name Harold Erbert Lease Lickteig Well No. 3

Depth Interval,
Feet

Description

648.0 - 660.8

Grayish light brown sandstone.

660.8 - 661.6

Brown sandstone.

661.6 - 662.7

Grayish brown sandstone.

662.7 - 667.0

Brown sandstone.

667.0 - 669.0

Gray sandy shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Harold Erbert

Lickteig

Lease

Well No. 3

Company

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	649.5	21.5	10	39	49	167	56.	1.0	1.0	167	56.00
2	652.5	20.8	4	50	54	65	90.	1.0	2.0	65	90.00
3	654.5	19.4	9	46	55	136	145.	1.0	3.0	136	145.00
4	655.7	19.5	12	48	60	182	241.	1.0	4.0	182	241.00
5	656.5	20.2	11	36	47	172	110.	1.0	5.0	172	110.00
6	657.5	21.6	16	32	48	268	99.	1.0	6.0	268	99.00
7	658.5	23.8	12	37	49	222	253.	1.0	7.0	222	253.00
8	659.5	19.8	15	44	59	230	212.	1.0	8.0	230	212.00
9	660.5	21.8	12	28	40	203	296.	0.8	8.8	162	236.80
10	661.5	18.5	24	42	66	345	212.	0.8	9.6	276	169.60
11	662.5	21.3	8	38	46	132	137.	1.1	10.7	145	150.70
12	663.8	18.4	32	29	61	457	56.	1.3	12.0	594	72.80
13	664.5	16.9	6	44	50	79	23.	1.0	13.0	79	23.00
14	665.5	19.7	31	23	54	474	17.	1.0	14.0	474	17.00
15	666.5	17.7	11	45	56	151	26.	1.0	15.0	151	26.00

Oilfield Research Laboratories

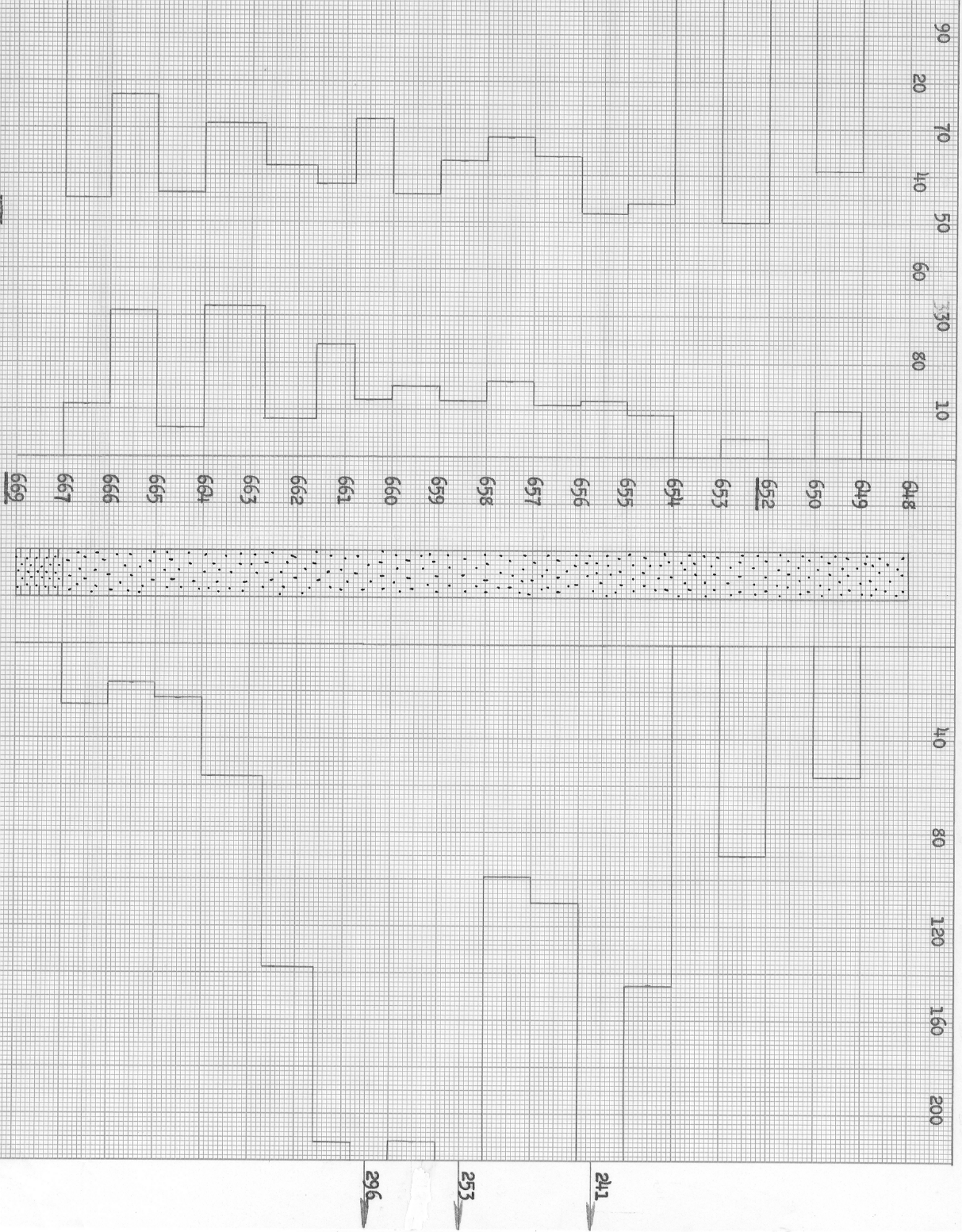
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Harold Erbert Lease Lickteig Well No. 3

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
649.0 - 667.0	15.0	126.8	1901.90

Depth Interval, Feet	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbl./Acre
649.0 - 667.0	20.0	14.4	38.6	222	3,323



KEY:

SANDSTONE

SANDY SHALE

HAROLD ERBERT

LICKFELG LEASE

WELL NO. 3

BOURBON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARQTS
649.0 - 667.0	15.0	20.0	14.4	38.6	126.8

OILFIELD RESEARCH LABORATORIES
 CHANDLER, KANSAS
 APRIL, 1980.

HR