

OILFIELD RESEARCH LABORATORIES

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

March 5, 1980

Harold Erbert
Rural Route 2
Iola, Kansas 66749

Gentlemen:

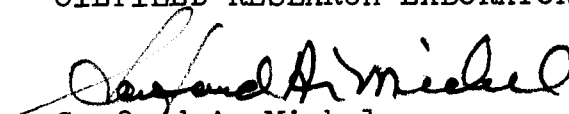
Enclosed herewith are the results of tests run on the rotary core taken from the Davis Lease, Well No. 2, Bourbon County, Kansas, and submitted to our laboratory on February 25, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem
4 c to Iola, Kansas

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GENERAL INFORMATION & SUMMARY

Company Harold Erbert Lease Davis Well No. 2

Location 165' FEL & 670' FSL SE $\frac{1}{4}$

Section 31 Twp. 23S Rge. 22E County Bourbon State Kansas

Elevation, Feet

Name of Sand

Bartlesville

Top of Core

652.0

Bottom of Core

670.0

Top of Sand

652.0

Bottom of Sand

670.0

Total Feet of Permeable Sand

14.0

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 100

3.0

3.0

100 - 200

4.6

7.6

200 - 300

2.0

9.6

300 - 400

3.4

13.0

400 & Above

1.0

14.0

Average Permeability Millidarcys

217.0

Average Percent Porosity

20.6

Average Percent Oil Saturation

20.5

Average Percent Water Saturation

41.8

Average Oil Content, Bbls./A. Ft.

316.

Total Oil Content, Bbls./Acre

4,424.

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LOG

Name Harold Erbert Lease Davis Well No. 2

Depth Interval,
Feet

Description

652.0 - 658.1

Gray sandstone.

658.1 - 658.9

Gray shaly sandstone.

658.9 - 664.1

Very light brown sandstone.

664.1 - 665.4

Brown sandstone.

665.4 - 670.0

Dark brown carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

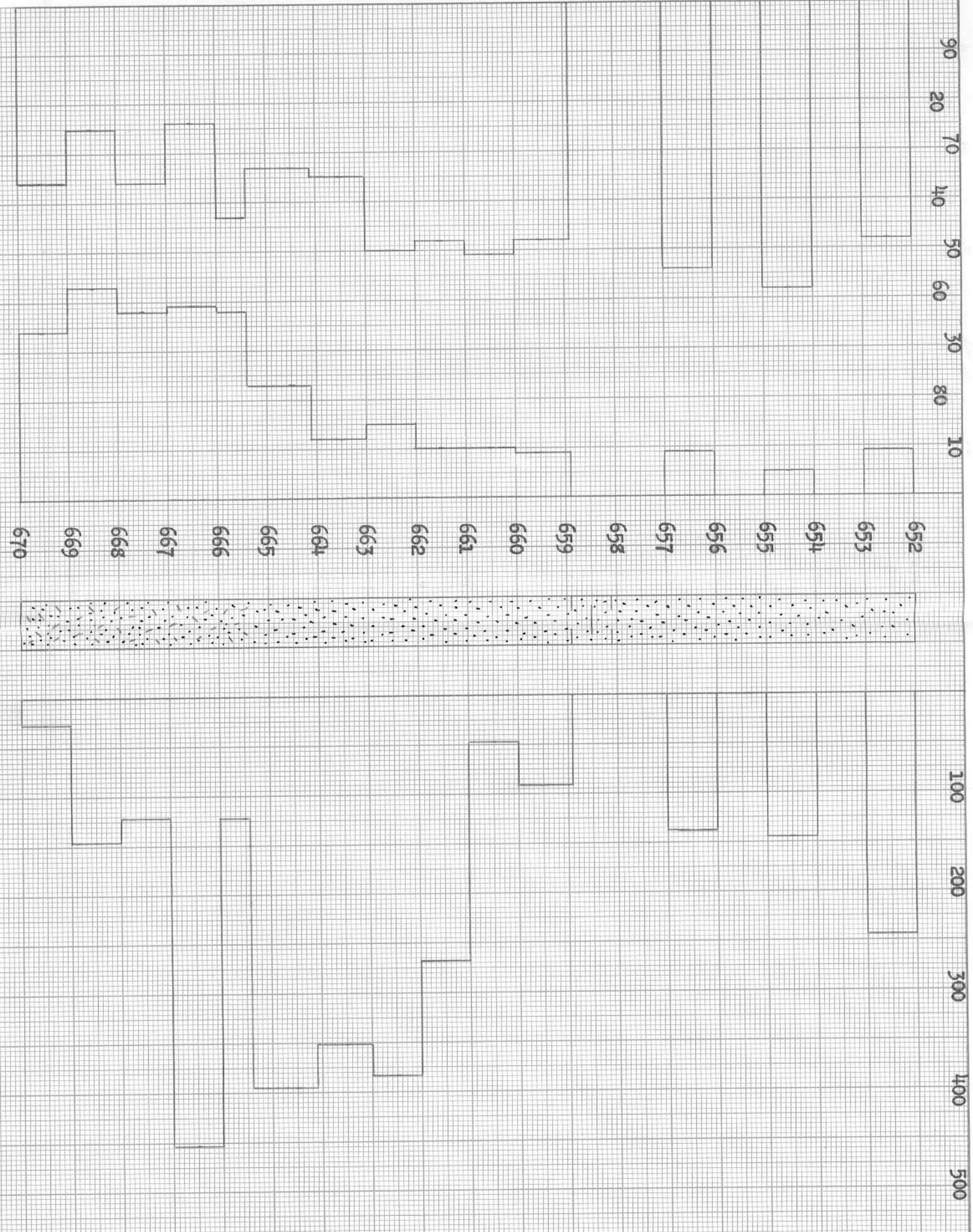
Company Harold Erbert Lease Davis Well No. 2

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	652.5	23.1	9	48	57	161	244.	1.0	1.0	161	244.00
2	654.5	21.9	5	58	63	85	145.	1.0	2.0	85	145.00
3	656.5	21.8	9	54	63	152	136.	1.0	3.0	152	136.00
4	659.5	21.4	9	48	57	145	92.	1.0	4.0	145	92.00
5	660.5	19.4	10	51	61	151	47.	1.0	5.0	151	47.00
6	661.5	23.1	10	48	58	179	269.	1.0	6.0	179	269.00
7	662.5	18.3	15	50	65	213	384.	1.0	7.0	213	384.00
8	663.5	21.6	12	35	47	201	352.	1.1	8.1	221	387.20
9	664.5	21.6	23	33	56	385	395.	1.3	9.4	501	513.50
10	665.5	17.6	38	43	81	519	123.	0.6	10.0	311	73.80
11	666.5	19.5	39	24	63	590	453.	1.0	11.0	590	453.00
12	667.5	19.4	38	36	74	572	122.	1.0	12.0	572	122.00
13	668.5	20.1	43	25	68	671	146.	1.0	13.0	671	146.00
14	669.5	17.9	34	36	70	472	26.	1.0	14.0	472	26.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lease		Well No.		2	
Harold Erbert		Davis					
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.				
652.0 - 665.4	9.4	235.9	2217.70				
665.4 - 670.0	4.6	178.4	820.80				
652.0 - 670.0	14.0	217.0	3038.50				
			</				



KEY:

SANDSTONE

CARBONACEOUS SANDSTONE

SHALY SANDSTONE

HAROLD ERBERT

DAVIS LEASE

WELL NO. 2

BOURBON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
652.0 - 665.4	9.4	21.4	11.7	46.6	235.9
665.4 - 670.0	4.6	19.0	38.4	31.9	178.4
652.0 - 670.0	14.0	20.6	20.5	41.8	217.0