



OILFIELD RESEARCH LABORATORIES

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

July 11, 1980

Michael Ebers
1215 South Rutter
Chanute, Kansas 66720

Gentlemen:

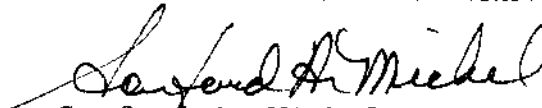
Enclosed herewith are the results of tests run on the rotary cores taken from the McClintick Lease, Well No. 2, Crawford County, Kansas, and submitted to our laboratory on June 20, 1980.

The cores were 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

1 c to Chanute, Kansas
1 c to James Ralston, Wichita, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Michael Ebers Lease McClintick Well No. 2
 Location SE SE SE
 Section 32 Twp. 27S Rge. 22E County Crawford State Kansas

Elevation, Feet	Upper Sand	Tucker Sand
Name of Sand		
Top of Core	295.0	603.0
Bottom of Core	297.8	614.0
Top of Sand	295.0	603.0
Bottom of Sand	297.8	614.0
Total Feet of Permeable Sand	2.8	7.2

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	<u>Feet</u>	<u>Cum. Ft.</u>
	<u>UPPER SAND</u>	
0 - 10	2.8	2.8
	<u>TUCKER SAND</u>	
0 - 10	1.6	1.6
10 - 40	2.8	4.4
115 & Above	2.8	7.2

Average Permeability Millidarcys	8.0	90.2
Average Percent Porosity	17.6	19.4
Average Percent Oil Saturation	15.8	43.8
Average Percent Water Saturation	34.1	30.2
Average Oil Content, Bbls./A. Ft.	226.	650.
Total Oil Content, Bbls./Acre	634.	5,332.

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LOGName Michael Ebers Lease McClintick Well No. 2Depth Interval,
FeetDescriptionUPPER SAND

295.0 - 296.1

Gray shaly sandstone.

296.1 - 297.8

Light brown shaly sandstone.

TUCKER SAND

603.0 - 603.8

Brown and gray laminated sandstone and shale.

603.8 - 606.6

Dark brown slightly calcareous sandstone.

606.6 - 608.6

Brown and gray laminated sandstone and shale.

608.6 - 609.2

Gray shaly carbonaceous sandstone.

609.2 - 612.0

Brown and gray laminated sandstone and shale.

612.0 - 614.0

Brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Michael Ebers Lease McClintick 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	295.2	16.2	2	46	48	<u>UPPER SAND</u> 25	6.7	1.1	1.1	28	7.37
2	296.3	18.4	26	31	57	371	8.5	1.0	2.1	371	8.50
3	297.6	18.8	23	20	43	336	9.4	0.7	2.8	235	6.58
<u>TUCKER SAND</u>											
4	603.5	16.2	35	50	85	440	32.	0.8	0.8	352	25.60
5	604.5	22.5	50	20	70	873	325.	1.0	1.8	873	325.00
6	605.8	22.1	49	23	72	840	117.	1.1	2.9	924	128.70
7	606.3	19.7	55	17	72	841	144.	0.7	3.6	589	100.80
8	607.4	15.8	32	44	76	392	Imp.	1.0	4.6	392	0.00
9	608.8	19.9	64	21	85	988	3.3	0.6	5.2	593	1.98
10	611.5	14.6	25	46	71	283	5.3	1.0	6.2	283	5.30
11	612.5	17.9	49	23	72	681	23.	1.0	7.2	681	23.00
12	613.7	18.9	44	25	69	645	39.	1.0	8.2	645	39.00

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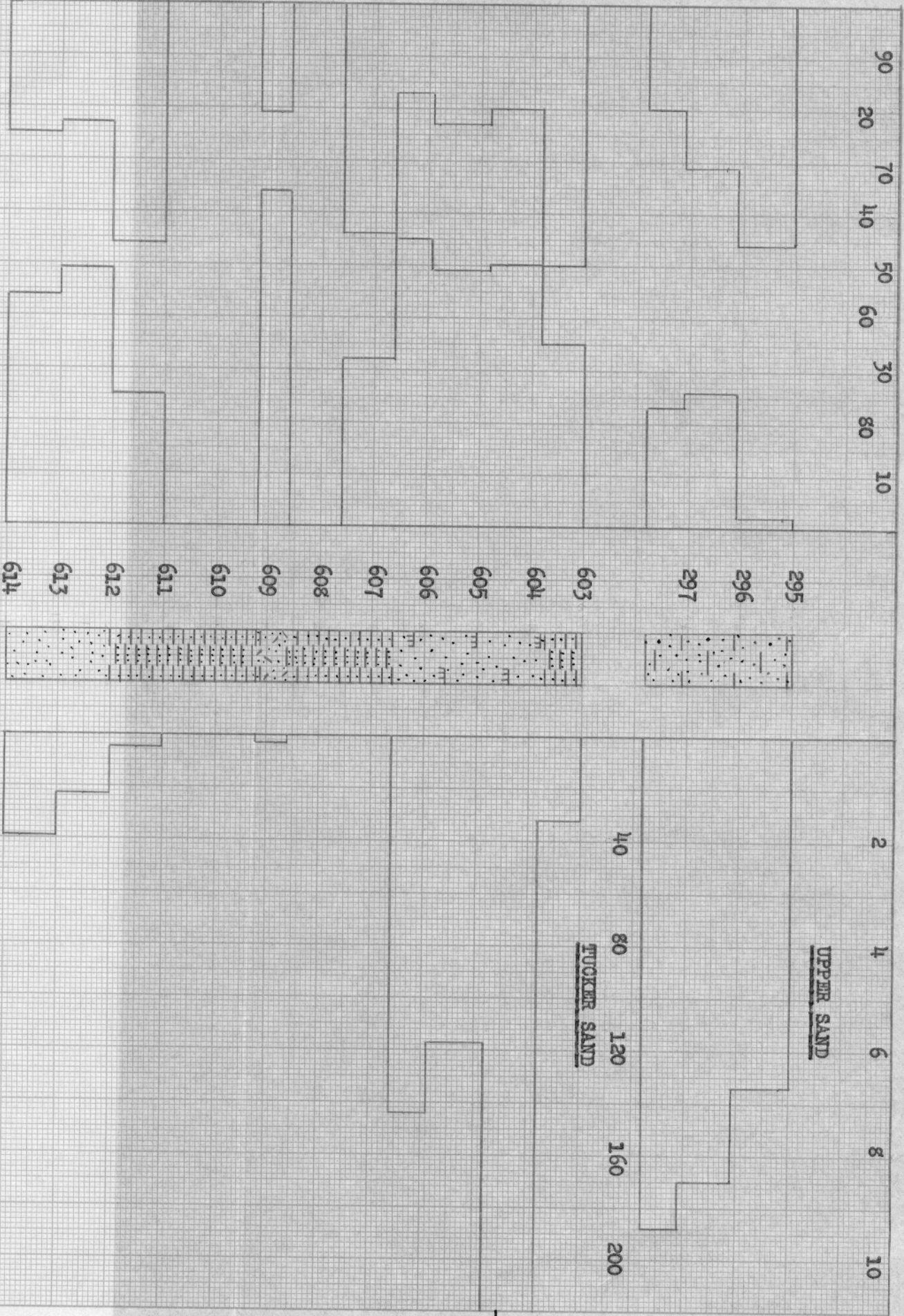
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Michael Ebers	Lease	McClintick	Well No.	2
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
			<u>UPPER SAND</u>		
	295.0 - 297.8	2.8	8.0	22.45	
			<u>TUCKER SAND</u>		
	603.0 - 614.0	7.2	90.2	649.38	

WATER SAT., ———→ OIL SAT.,
PERCENT PERCENT

PERMEABILITY, IN MILLIDARCYs



KEY:



SHALY SANDSTONE



CALCAREOUS SANDSTONE



SANDSTONE



LAMINATED SANDSTONE & SHALE



CARBONACEOUS SHALY SANDSTONE

MICHAEL EBERS

MC CLINTOCK LEASE
CRAWFORD COUNTY, KANSAS

WELL NO. 2

DEPTH INTERVAL,
FEET

FEET OF CORE
ANALYZED

AVERAGE
PERCENT
POROSITY

AVG. OIL
SATURATION
PERCENT

AVG. WATER
SATURATION
PERCENT

AVERAGE
PERMEABILITY,
MILLIDARCS

UPPER SAND

295.0 - 297.8

2.8

17.6

15.8

34.1

8.0

LOWER SAND

603.0 - 614.0

8.2

19.4

43.8

30.2

90.2