

OILFIELD RESEARCH LABORATORIES

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

January 25, 1980

Larry Huckleberry
P.O. Box 786
Olathe, Kansas 66061

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Harvey Lease, Well No. 3, Bourbon County, Kansas, and submitted to our laboratory on January 18, 1980.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem
5 c to Olathe, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Larry Huckleberry Lease Harvey Well No. 3

Location SW $\frac{1}{4}$ SE $\frac{1}{4}$

Section 4 Twp. 24S Rge. 27E County Bourbon State Kansas

Elevation, Feet 22E

Name of Sand Bartlesville

Top of Core 484.0

Bottom of Core 503.0

Top of Sand 484.0

Bottom of Sand 497.9

Total Feet of Permeable Sand 13.9

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 20	3.4	3.4
20 - 40	2.5	5.9
95 - 200	4.0	9.9
500 - 700	3.0	12.9
1000 & Above	1.0	13.9

Average Permeability Millidarcys 254.1

Average Percent Porosity 20.0

Average Percent Oil Saturation 24.9

Average Percent Water Saturation 62.1

Average Oil Content, Bbls./A. Ft. 375.

Total Oil Content, Bbls./Acre 5,212.

OILFIELD RESEARCH LABORATORIES

LOGName Larry Huckleberry Lease Harvey Well No. 3Depth Interval,
FeetDescription

484.0 - 484.7	Light brown slightly shaly sandstone.
484.7 - 490.7	Very light brown sandstone.
490.7 - 493.8	Brown sandstone.
493.8 - 496.2	Dark brown sandstone.
496.2 - 497.9	Brown slightly shaly sandstone.
497.9 - 498.0	Coal.
498.0 - 503.0	Gray shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Larry Huckleberry Lease Harvey Well No. 3

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	484.5	18.7	26	56	82	377	12.	0.7	0.7	264	8.40
2	485.5	18.1	14	78	92	197	188.	1.0	1.7	197	188.00
3	486.5	23.9	15	80	95	278	1019.	1.0	2.7	278	1019.00
4	487.5	20.4	16	80	96	253	664.	1.0	3.7	253	664.00
5	488.5	21.3	12	82	94	198	556.	1.0	4.7	198	556.00
6	489.5	23.2	12	82	94	216	611.	1.0	5.7	216	611.00
7	490.5	20.7	13	73	86	209	145.	1.0	6.7	209	145.00
8	491.5	18.6	29	62	91	419	32.	1.1	7.8	461	35.20
9	492.5	21.2	20	65	85	329	113.	1.0	8.8	329	113.00
10	493.5	20.6	21	59	80	336	99.	1.0	9.8	336	99.00
11	494.5	20.3	45	32	77	709	19.	1.0	10.8	709	19.00
12	495.5	19.0	43	36	79	634	37.	1.4	12.2	888	51.80
13	496.5	16.1	37	41	78	462	15.	0.8	13.0	370	12.00
14	497.5	17.2	42	46	88	560	12.	0.9	13.9	504	10.80

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

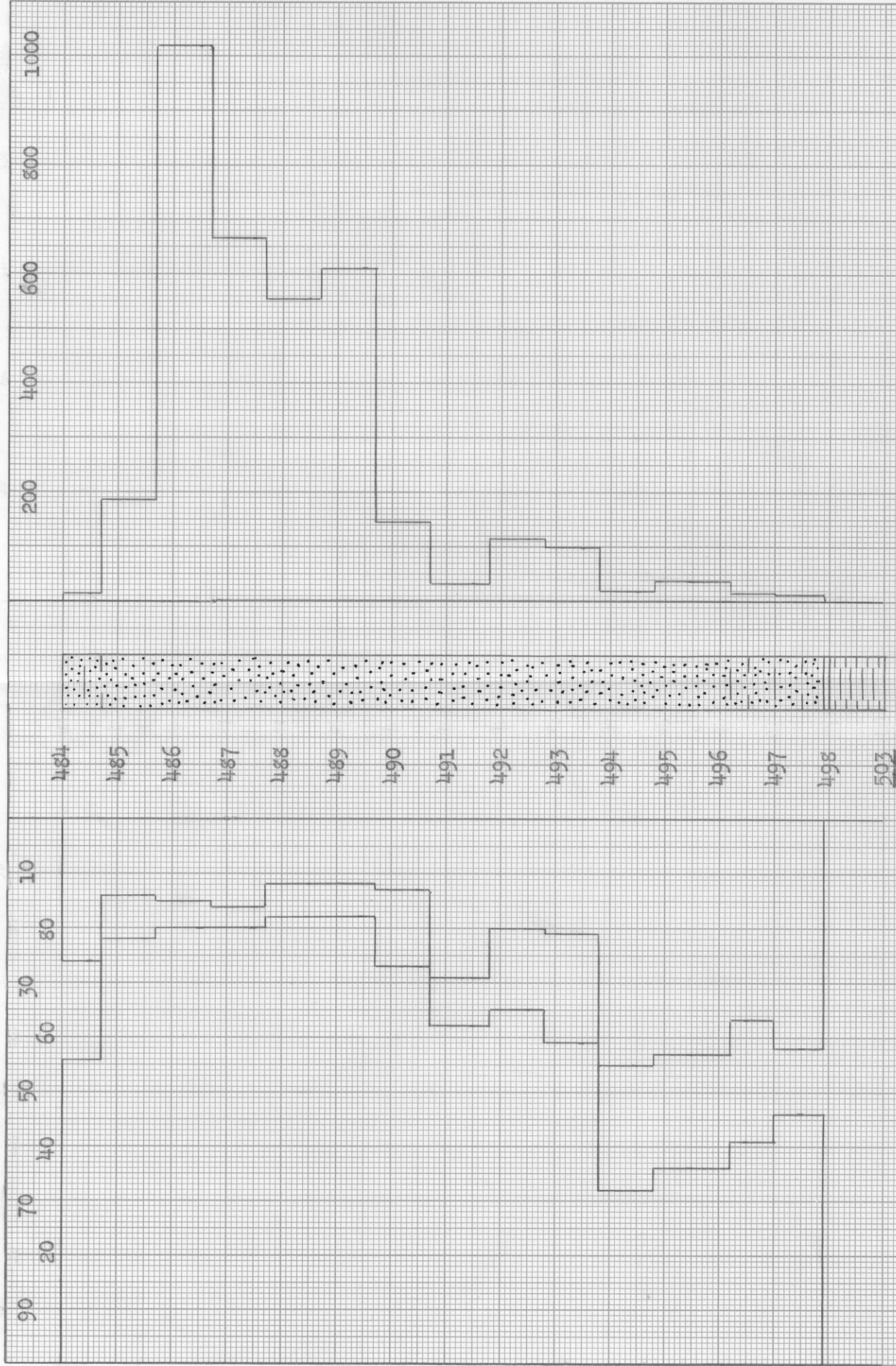
TABLE III

Company	Larry Huckleberry	Lease	Harvey	Well No.	3
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
484.0 - 490.7	6.7	476.3	3191.40		
490.7 - 497.9	7.2	47.3	340.80		
484.0 - 497.9	13.9	254.1	3532.20		

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbl./Acre
484.0 - 490.7	6.7	21.0	15.0	76.7	241	1,615
490.7 - 497.9	7.2	19.1	34.1	48.4	500	3,597
484.0 - 497.9	13.9	20.0	24.9	62.1	375	5,212

WATER SAT., PERCENT → OIL SAT., PERCENT ←

PERMEABILITY, IN MILLIDARCS



KEY:

SANDSTONE
SHALE

SHALY SANDSTONE
COAL

KEY:

SANDSTONE

SHALY SANDSTONE

SHALE

COAL

LARRY HUCKLEBERRY

HARVEY LEASE

WELL NO. 3

BOURBON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE		AVG. OIL		AVG. WATER		AVERAGE	
		POROSITY	PERCENT	SATURATION	PERCENT	SATURATION	PERCENT	PERMEABILITY,	MILLIDARCS
484.0 - 490.7	6.7	21.0		15.0		76.7		476.3	
490.7 - 497.9	7.2	19.1		34.1		48.4		47.3	
484.0 - 497.9	13.9	20.0		24.9		62.1		254.1	

OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 JANUARY, 1980 HR