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

June 15, 1981

EOR Petroleum Company
Suite P-300
1777 South Harrison
Denver, Colorado 80210

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Odaffer Lease, Well No. N-5A, located in Anderson County, Kansas.

The core was sampled in the laboratory after being received on June 10, 1981.

The client reported that the core had been out of the ground 6 hours before being sampled.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Denver, Colorado

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company EOR Petroleum Co. Lease Odaffer Well No. N-5A

Location 165' FWL & 440' FNL

Section 14 Twp. 21S Rge. 20E County Anderson State Kansas

Elevation, Feet	
Name of Sand	Bush City Squirrel
Top of Core	766.0
Bottom of Core	805.0
Top of Sand	766.0
Bottom of Sand	805.0
Total Feet of Permeable Sand	36.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 4	9.3	9.3
4 - 8	9.2	18.5
8 - 12	4.8	23.3
12 - 24	5.7	29.0
24 - 36	3.0	32.0
36 - 45	2.0	34.0
62 - 195	2.0	36.0

Average Permeability Millidarcys	17.0
Average Percent Porosity	15.9
Average Percent Oil Saturation	32.3
Average Percent Water Saturation	44.1
Average Oil Content, Bbls./A. Ft.	414.
Total Oil Content, Bbls./Acre	15,745.

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LOG

Name EOR Petroleum Co. Lease Odaffer Well No. N-5A

Depth Interval, Feet	Description
766.0 - 769.0	Brown and gray laminated sandstone and shale.
769.0 - 770.2	Brown shaly sandstone.
770.2 - 776.8	Brown and gray laminated sandstone and shale.
776.8 - 778.7	Brown sandstone.
778.7 - 784.0	Brown and gray laminated sandstone and shale.
784.0 - 785.0	Loss. No core.
785.0 - 805.0	Brown and gray laminated sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company EOR Petroleum Co. Lease Odaffer Well No. N-5A

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	766.5	13.5	30	33	63	314	*	1.0	1.0	314	-
2	767.6	12.3	33	28	61	315	*	1.0	2.0	315	-
3	768.4	19.0	28	31	59	413	17.	1.0	3.0	413	17.00
4	769.6	14.2	35	50	85	386	6.6	1.2	4.2	463	7.92
5	770.6	16.7	28	40	68	363	11.	1.0	5.2	363	11.00
6	771.6	14.1	38	27	65	416	190.	1.0	6.2	416	190.00
7	772.4	19.4	28	43	71	421	30.	1.0	7.2	421	30.00
8	773.5	12.9	35	60	95	350	1.9	1.0	8.2	350	1.90
9	774.6	9.0	25	69	94	175	62.	1.0	9.2	175	62.00
10	775.5	14.8	20	59	79	230	8.4	0.8	10.0	184	6.72
11	776.5	19.6	28	33	61	426	19.	0.8	10.8	341	15.20
12	777.6	16.3	29	42	71	367	19.	0.9	11.7	330	17.10
13	778.4	18.8	35	37	72	511	16.	1.0	12.7	511	16.00
14	779.4	15.3	20	40	60	237	2.5	1.3	14.0	308	3.25
15	780.6	18.1	29	36	65	407	25.	1.0	15.0	407	25.00
16	781.7	19.2	29	34	63	432	13.	1.0	16.0	432	13.00
17	782.5	14.8	18	50	68	207	4.4	1.0	17.0	207	4.40
18	783.6	13.4	26	52	78	270	4.8	1.0	18.0	270	4.80
19	785.6	18.7	21	43	64	305	38.	1.0	19.0	305	38.00
20	786.6	21.6	43	52	95	721	42.	1.0	20.0	721	42.00
21	787.6	20.4	36	44	80	570	15.	1.0	21.0	570	15.00
22	788.6	18.1	44	45	89	618	4.7	1.0	22.0	618	4.70
23	789.6	16.8	43	38	81	560	4.2	1.0	23.0	560	4.20
24	790.7	11.6	21	62	83	189	1.6	1.0	24.0	189	1.60

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company EOR Petroleum Co. Lease Odaffer Well No. N-5A

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.		
25	791.5	13.3	35	58	93	361	4.0	1.0	25.0	361	4.00
26	792.5	17.4	16	51	67	216	27.	1.0	26.0	216	27.00
27	793.6	12.0	34	58	92	317	0.22	1.0	27.0	317	0.22
28	794.5	15.0	44	38	82	512	3.0	1.0	28.0	512	3.00
29	795.5	17.1	34	50	84	451	8.6	1.0	29.0	451	8.60
30	796.5	16.3	25	55	80	816	4.5	1.0	30.0	816	4.50
31	797.5	17.3	46	31	77	617	7.5	1.0	31.0	617	7.50
32	798.6	15.2	40	47	87	472	0.64	1.0	32.0	472	0.64
33	799.6	15.4	47	32	79	562	1.3	1.0	33.0	562	1.30
34	800.4	18.9	50	23	73	733	8.0	1.0	34.0	733	8.00
35	801.5	11.6	26	62	88	234	1.7	1.0	35.0	234	1.70
36	802.7	13.3	32	48	80	330	9.0	1.0	36.0	330	9.00
37	803.4	15.8	47	29	76	576	6.3	1.0	37.0	576	6.30
38	804.3	16.8	28	48	76	365	0.82	1.0	38.0	365	0.82

NOTE: * Permeability samples unobtainable.

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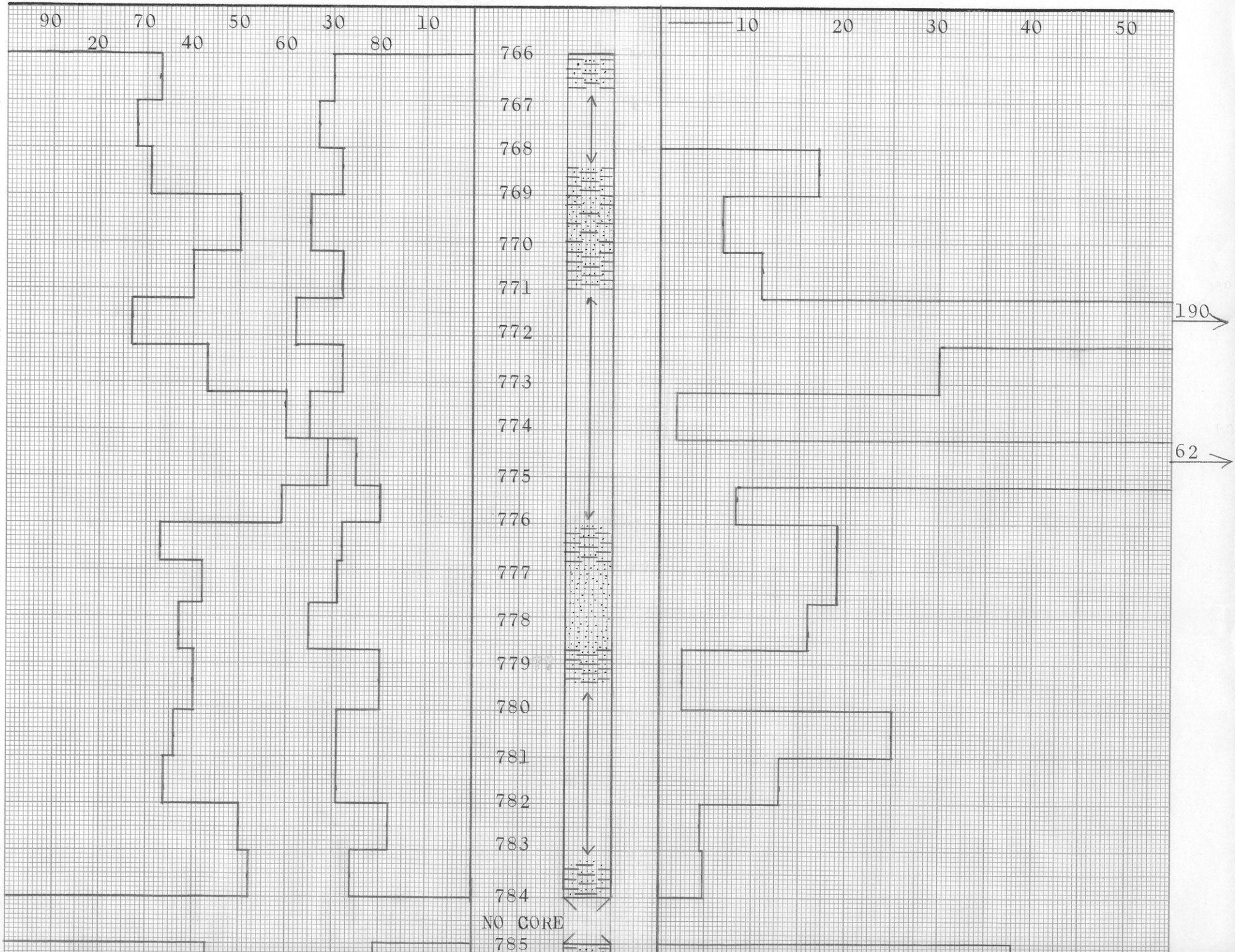
SUMMARY OF PERMEABILITY & SATURATION TESTS

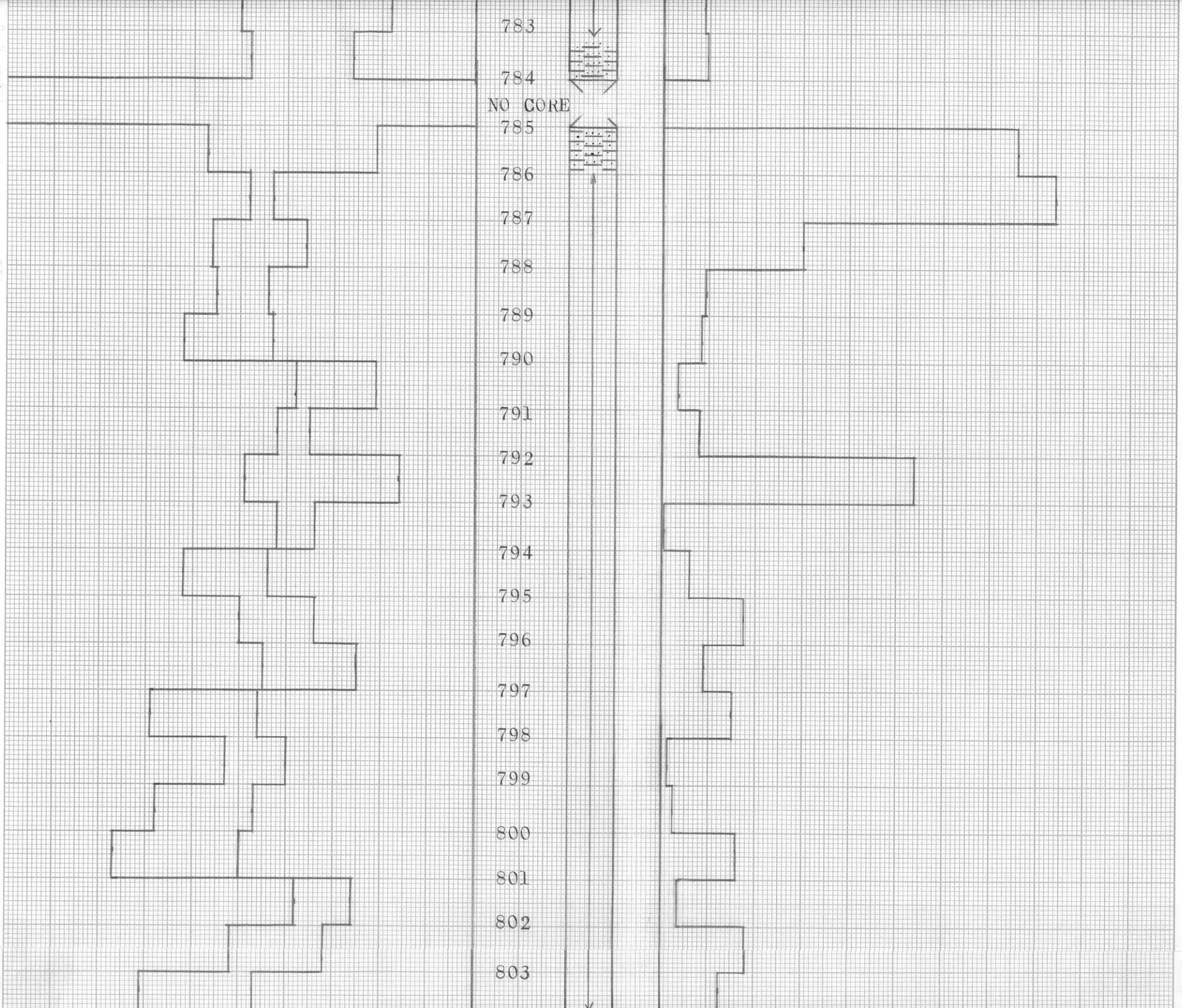
TABLE III

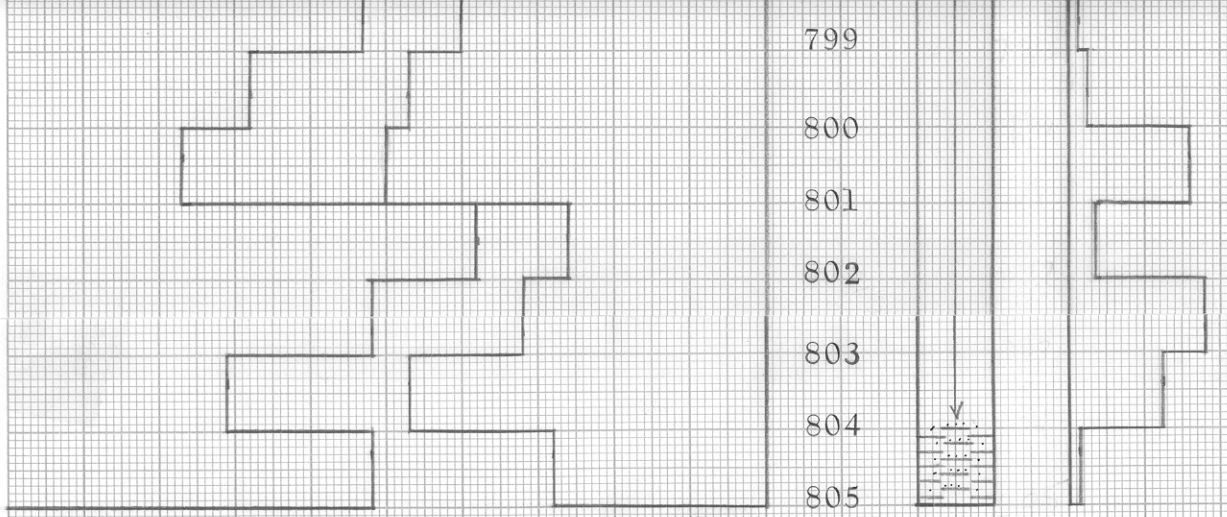
Company EOR Petroleum Co. Lease Odaffer Well No. N-5A

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
766.0 - 805.0	36.0	17.0	613.37

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 Bbls./Acre
766.0 - 805.0	38.0	15.9	32.3	44.1	414	15,745


WATER SAT., PERCENT
OIL SAT., PERCENT
PERMEABILITY, IN MILLIDARCYS
90
70
50
30
10
20
40
60
80
10
20
30
40
50
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
NO CORE
785
190
62


783
784
NO CORE
785
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KEY:

SANDSTONE

SHALY SANDSTONE

LAMINATED SANDSTONE AND SHALE

LOSS

EOR PETROLEUM COMPANY

ODAFFER LEASE WELL NO. N-5A

ANDERSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
766.0 - 805.0	38.0	15.9	32.3	44.1	17.0

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CHANUTE, KANSAS
JUNE, 1981

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