OILFIELD RESEARCH LABORATORIES

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

May 22, 1980

Wright Energy Mid-West, Inc.
305 South Main Mall
Tulsa, Oklahoma 74101

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Pickell Lease, Well No. WE-10, Wilson County, Kansas, and submitted to our laboratory on May 7, 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

5 c to Tulsa, Oklahoma

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Wright Energy Mid-West, Inc. Lease Pickell Well No. WE-10

Location NW SE SE

Section 33 Twp. 28S Rge. 13E County Wilson State Kansas

Elevation, Feet	
Name of Formation	New Albany
Top of Core	614.0
Bottom of Core	653.3
Top of Formation Analyzed	619.5
Bottom of Sand	653.3
Total Feet of Permeable Formation	20.5

Distribution Of Permeable Formation

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 15	4.8	4.8
25 - 50	4.4	9.2
50 - 75	4.3	13.5
75 - 100	2.5	16.0
110 & Above	4.5	20.5

Average Permeability Millidarcys	63.5
Average Percent Porosity	21.2
Average Percent Oil Saturation	23.7
Average Percent Water Saturation	55.2
Average Oil Content, Bbls./A. Ft.	393.
Total Oil Content, Bbls./Acre	9,126.

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LOG

Name Wright Energy Mid-West, Inc. Lease Pickell Well No. WE-10

Depth Interval, Feet	Description
614.0 - 619.5	Hard gray limestone.
619.5 - 620.6	Hard gray calcareous fossiliferous sandy shale.
620.6 - 624.5	Gray conglomeratic sandy shale.
624.5 - 632.0	Gray sandy shale.
632.0 - 632.6	Grayish brown shaly sandstone.
632.6 - 633.0	Brown sandstone.
633.0 - 636.8	Grayish brown shaly sandstone.
636.8 - 653.3	Brown slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Wright Energy Mid-West, Incorporated Lease Pickell Well No. WE-10

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	619.7	9.9	10	80	90	77	Imp.	1.1	1.1	85	0.00
2	623.0	15.2	12	75	87	142	0.43	1.0	2.1	142	0.43
3	624.3	13.9	6	92	98	65	Imp.	1.0	3.1	65	0.00
4	632.2	19.1	27	50	77	400	Imp.	0.6	3.7	240	0.00
5	632.8	19.6	27	45	72	411	25.	0.4	4.1	164	10.00
6	633.5	20.7	33	47	80	530	6.2	1.0	5.1	530	6.20
7	634.9	23.5	22	51	73	403	12.	1.0	6.1	403	12.00
8	636.5	23.2	32	49	81	576	4.8	1.8	7.9	1037	8.64
9	638.1	23.9	27	49	76	501	91.	1.0	8.9	501	91.00
10	639.5	21.0	34	42	76	554	48.	1.5	10.4	831	72.00
11	641.1	23.5	27	44	71	492	46.	1.5	11.9	738	69.00
12	642.5	23.3	28	46	74	506	68.	1.5	13.4	759	102.00
13	644.2	24.6	32	39	71	611	114.	1.5	14.9	917	171.00
14	645.5	23.6	25	46	71	458	154.	1.5	16.4	687	231.00
15	646.9	22.5	32	41	73	559	133.	1.5	17.9	639	199.50
16	648.6	19.1	34	42	76	504	52.	1.5	19.4	756	78.00
17	650.1	22.9	18	60	78	320	84.	1.5	20.9	480	126.00
18	651.5	23.1	5	86	91	90	68.	1.3	22.2	117	88.40
19	653.2	22.6	2	90	92	35	37.	1.0	23.2	35	37.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Wright Energy Mid-West, Incorporated Lease Pickell Well No. WE-10

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
619.5 - 624.5	1.0	0.43	0.43
632.0 - 651.0	17.2	68.4	1176.34
651.0 - 653.3	2.3	54.5	125.40
619.5 - 653.3	20.5	63.5	1302.17

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
619.5 - 624.5	3.1	12.9	9.4	82.3	94	292
632.0 - 651.0	17.8	22.5	28.7	46.2	488	8,682
651.0 - 653.3	2.3	22.9	3.7	87.7	66	152
619.5 - 653.3	23.2	21.2	23.7	55.2	393	9,126

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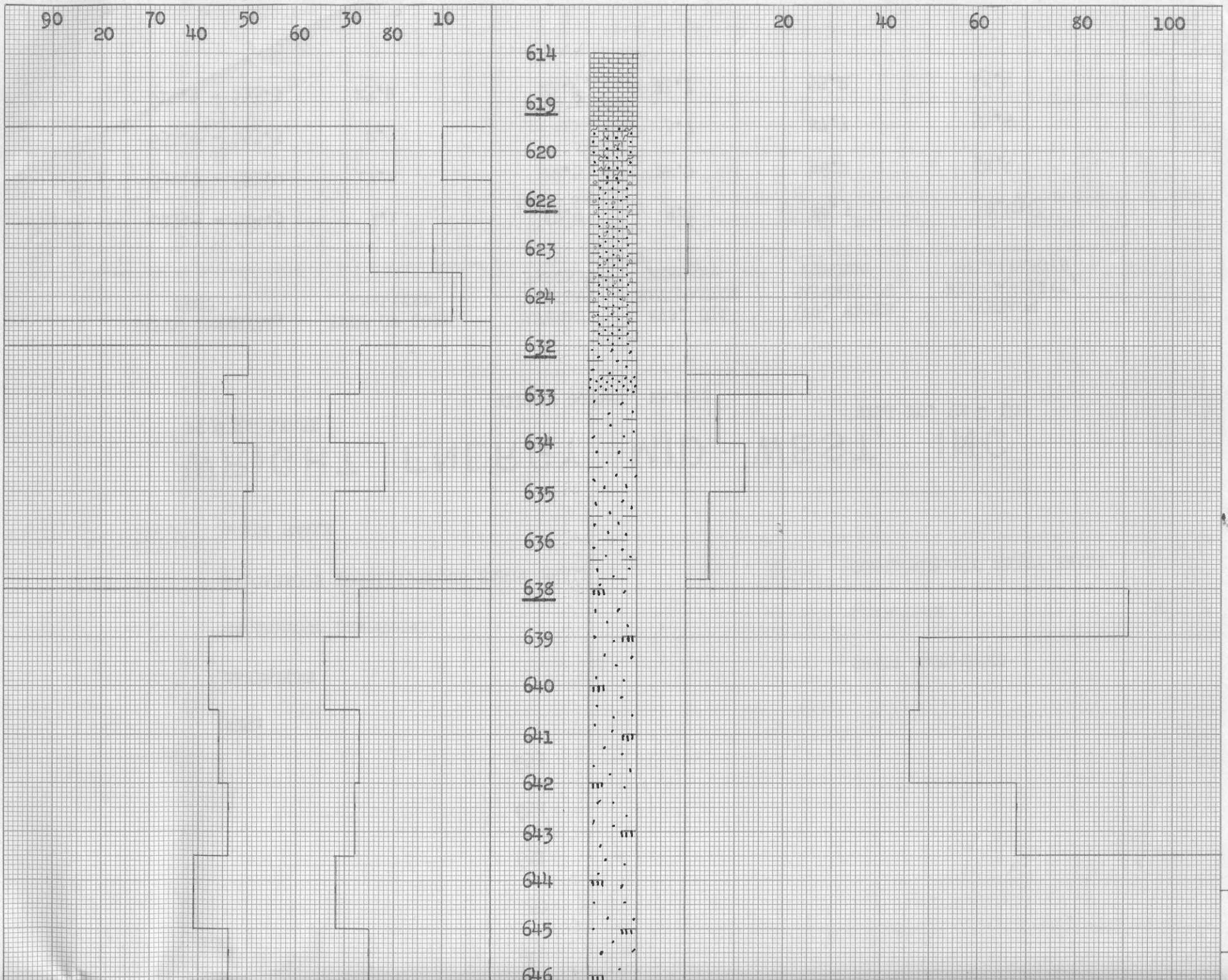

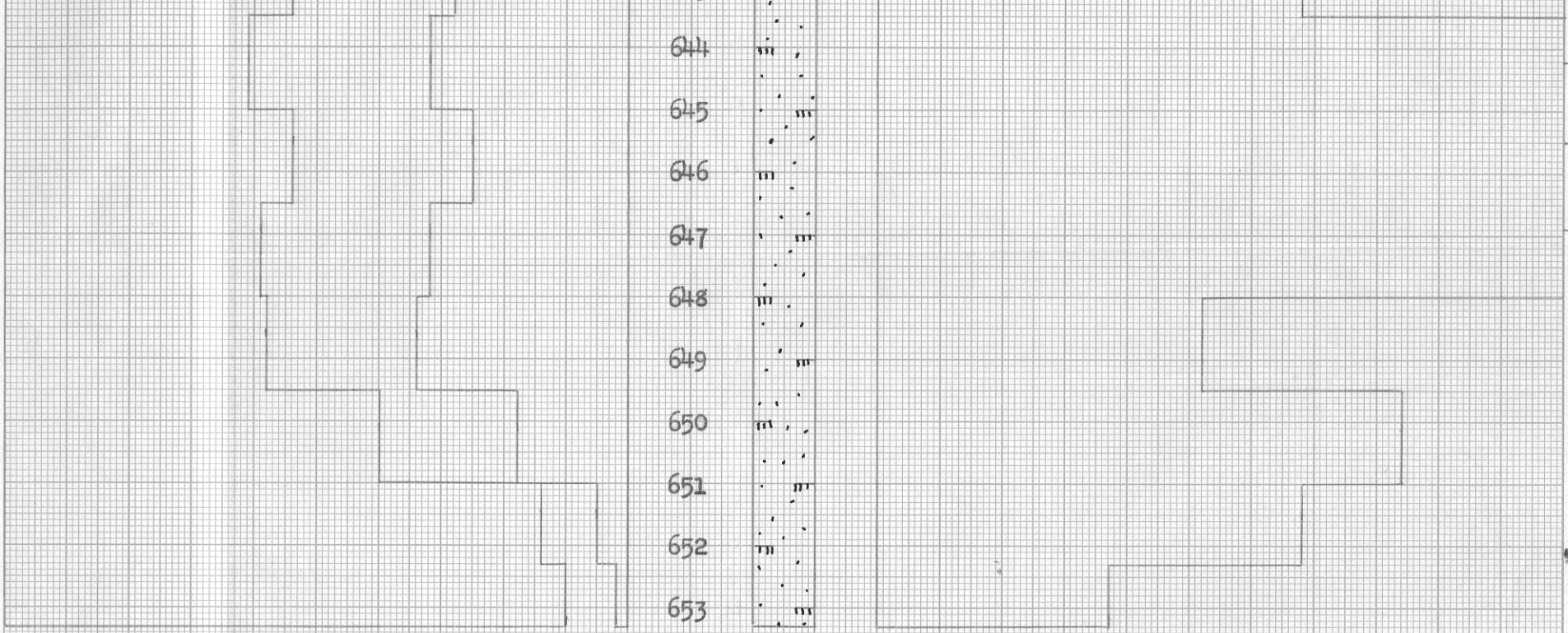

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KEY:

SANDSTONE

CALCAREOUS SANDSTONE

CALCAREOUS FOSSILIFEROUS SANDY SHALE

SANDY SHALE

SHALY SANDSTONE

LIMESTONE

CONGLOMERATIC SANDY SHALE

WRIGHT ENERGY MID-WEST, INC.

PICKELL LEASE

WELL NO. WE - 10

WILSON COUNTY, KANSAS

CALCAREOUS FOSSILIFEROUS SANDY SHALE

CONGLOMERATIC SANDY SHALE

SANDY SHALE

WRIGHT ENERGY MID-WEST, INC.

PICKELL LEASE — WELL NO. WE - 10

WILSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
619.5 - 624.5	3.1	12.9	9.4	82.3	0.43
632.0 - 651.0	17.8	22.5	28.7	46.2	68.4
651.0 - 653.3	2.3	22.9	3.7	87.7	54.5
619.5 - 653.3	23.2	21.2	23.7	55.2	63.5

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CHANUTE, KANSAS
MAY, 1980. HR