

OILFIELD RESEARCH LABORATORIES

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

July 8, 1981

Prairie Petroleum
P. O. Box 284
Nowata, Oklahoma 74048

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Winans Lease, Well No. 2, located in Neosho County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on July 2, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Nowata, Oklahoma

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GENERAL INFORMATION & SUMMARY

Company Prairie Petroleum Lease Winans Well No. 2
 Location _____
 Section 7 Twp. 27S Rge. 20E County Neosho State Kansas

Elevation, Feet

Name of Sand.....

Bartlesville

Top of Core

752.0

Bottom of Core

766.0

Top of Sand

752.0

Bottom of Sand

766.0

Total Feet of Permeable Sand

11.0

Distribution of Permeable Sand: Permeability Range Millidarcys

Feet

Cum. Ft.

0 - 1

3.8

3.8

1 - 5

2.3

6.1

20 - 80

2.5

8.6

125 - 170

2.4

11.0

Average Permeability Millidarcys

45.7

Average Percent Porosity

15.2

Average Percent Oil Saturation

26.9

Average Percent Water Saturation.....

42.9

Average Oil Content, Bbls./A. Ft.

324.

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

4,539.

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LOGName Prairie Petroleum Lease Winans Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
752.0 - 753.6	Light brown slightly calcareous sandstone containing a vertical fracture.
753.6 - 760.1	Grayish light brown slightly calcareous shaly sand- stone.
760.1 - 761.2	Brown sandstone.
761.2 - 762.5	Grayish light brown shaly sandstone.
762.5 - 764.7	Brown sandstone.
764.7 - 766.0	Grayish light brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Prairie Petroleum Lease Winans 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	752.5	16.2	31	23	54	390	42.	1.0	1.0	390	42.00
2	753.4	13.3	33	45	78	341	163.	0.6	1.6	205	97.80
3	754.5	11.5	12	70	82	107	Imp.	1.0	2.6	107	0.00
4	755.6	14.9	15	50	65	173	0.21	1.1	3.7	190	0.23
5	756.5	11.9	22	66	88	203	Imp.	1.0	4.7	203	0.00
6	757.5	19.8	20	48	68	307	1.2	1.0	5.7	307	1.20
7	758.4	12.6	14	56	70	137	Imp.	1.0	6.7	137	0.00
8	759.4	11.6	27	57	84	243	0.26	1.4	8.1	340	0.36
9	760.4	20.7	34	24	58	546	169.	1.1	9.2	601	185.90
10	761.5	12.4	33	42	75	318	4.9	1.3	10.5	413	6.37
11	762.6	20.4	33	13	46	522	78.	0.8	11.3	418	62.40
12	763.5	21.5	39	21	60	651	128.	0.7	12.0	456	89.60
13	764.5	16.7	26	32	58	337	22.	0.7	12.7	236	15.40
14	765.5	13.6	39	36	75	412	0.87	1.3	14.0	536	1.13

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SUMMARY OF PERMEABILITY & SATURATION TESTS

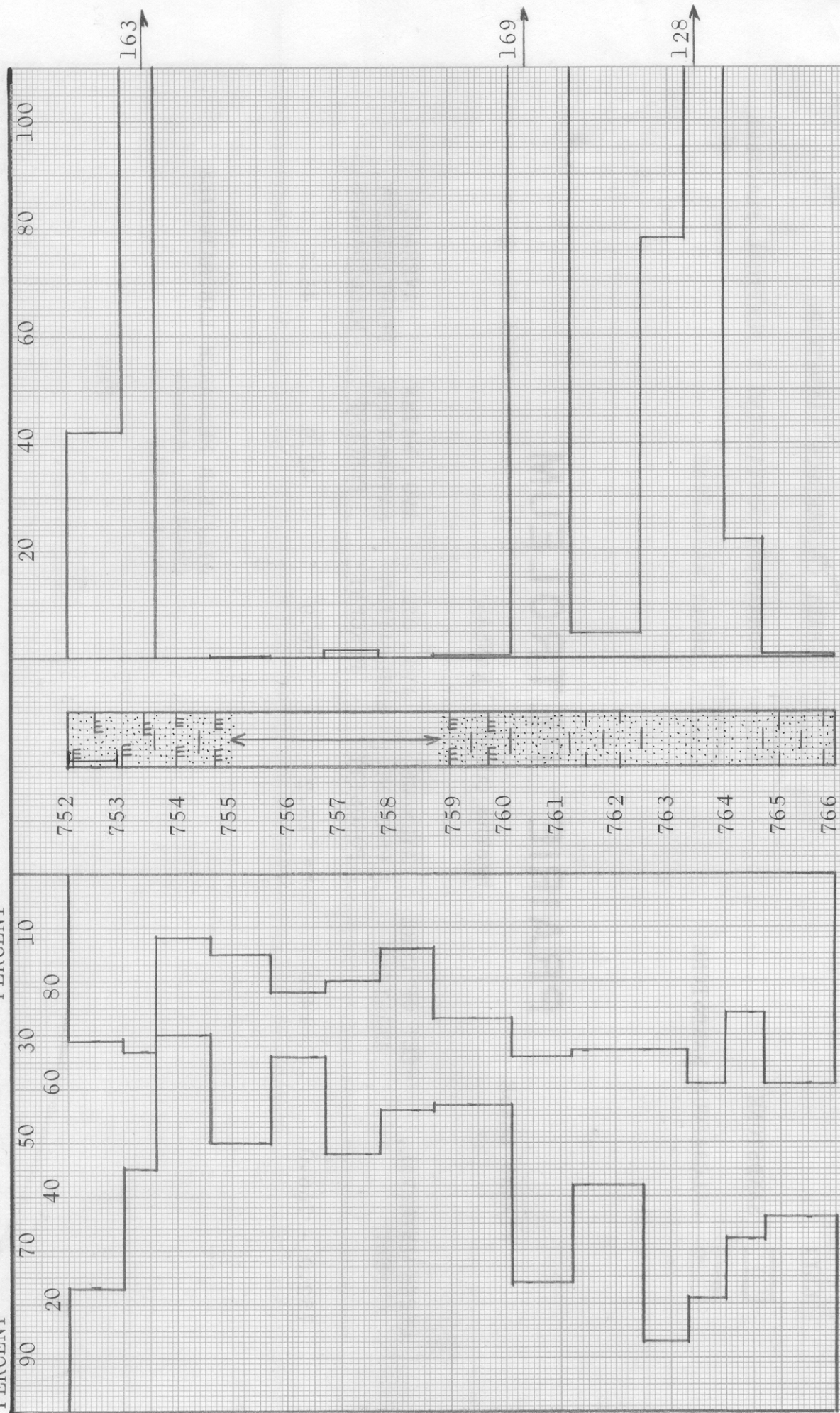
TABLE III

Company	Prairie Petroleum	Lease	Winans	Well No.	2
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
752.0 - 766.0	11.0	45.7	502.39		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
752.0 - 766.0	14.0	15.2	26.9	42.9	324
					4,539

WATER SAT., ———→
PERCENT

OIL SAT., ———←
PERCENT

———— PERMEABILITY, IN MILLIDARCY



KEY:



SANDSTONE



CALCAREOUS SANDSTONE



SHALY CALCAREOUS SANDSTONE



FORMATION CONTAINING A VERTICAL FRACTURE



SHALY SANDSTONE

PRAIRIE PETROLEUM

WINANS LEASE

WELL NO. 2

NEOSH0 COUNTY, KANSAS

DEPTH INTERVAL,
FEET

FEET OF CORE
ANALYZED

AVERAGE
PERCENT
POROSITY

AVG. OIL
SATURATION
PERCENT

AVG. WATER
SATURATION
PERCENT

AVERAGE
PERMEABILITY,
MILLIDARCS

752.0 - 766.0

14.0

15.2

26.9

42.9

45.7

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CHANUTE, KANSAS
JULY, 1981

PDC