

OILFIELD RESEARCH LABORATORIES

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

February 26, 1981

Ponderay International, Inc.
Drawer "D"
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Wiltse Lease, Well No. 2-A, located in Wilson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on February 21, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Chanute, Kansas.

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company Ponderay International, Inc. Lease Wiltse Well No. 2-A
 Location NE $\frac{1}{4}$
 Section 11 Twp. 28S Rge. 16E County Wilson State Kansas

Elevation, Feet	-
Name of Sand	Squirrel
Top of Core	774.0
Bottom of Core	786.4
Top of Sand	774.0
Bottom of Sand	782.1
Total Feet of Permeable Sand	1.1

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 0.50	1.1	1.1

Average Permeability Millidarcys	0.42
Average Percent Porosity	7.8
Average Percent Oil Saturation	23.0
Average Percent Water Saturation	67.1
Average Oil Content, Bbls./A. Ft.	171.
Total Oil Content, Bbls./Acre	874.

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Name Ponderay International, Inc. Lease Wiltse Well No. 2-A

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
774.0 - 774.6	Hard light brown limestone.
774.6 - 776.8	Gray laminated sandstone and shale.
776.8 - 778.1	Hard brown limestone.
778.1 - 779.9	Gray sandy shale.
779.9 - 782.1	Light brown and gray laminated sandstone and shale.
782.1 - 786.4	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Ponderay International, Inc. Lease Wiltse Well No. 2-A

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			Ft.	Cum. Ft.		
1	874.5	3.3	5	80	13	Imp.	0.6	0.6	7	0.00
2	876.6	3.9	12	81	36	Imp.	1.0	1.6	36	0.00
3	877.5	6.4	16	71	79	Imp.	1.3	2.9	103	0.00
4	880.7	12.2	19	70	180	0.42	1.1	4.0	198	0.46
5	881.5	11.3	55	40	482	Imp.	1.1	5.1	530	0.00

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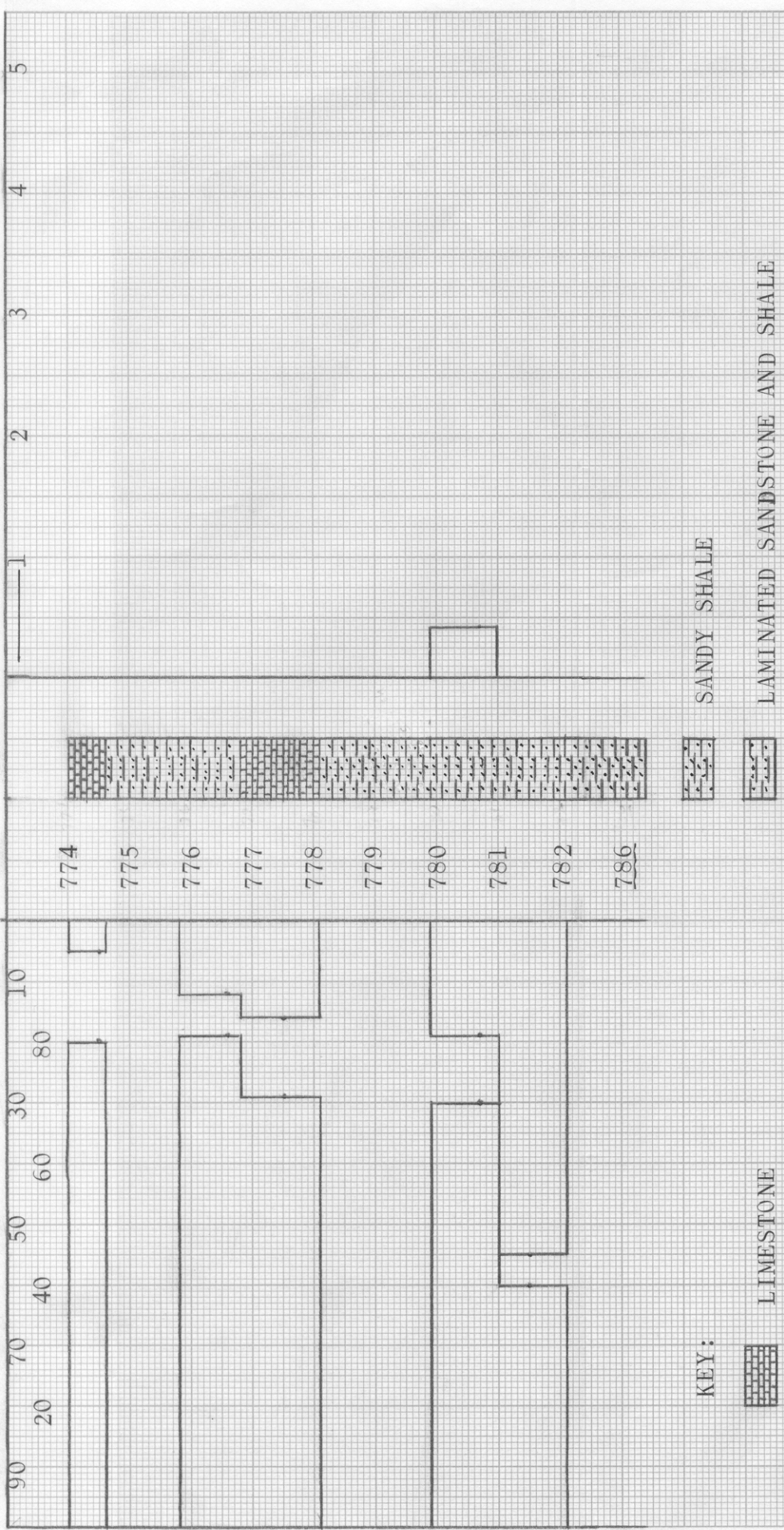
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Wiltse	Well No.
Ponderay International, Inc.			2-A
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
774.0 - 782.1	1.1	0.42	0.46
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation
774.0 - 782.1	5.1	7.8	23.0
			Average Oil Content Bbl./A. Ft.
			Total Oil Content Bbls./Acre
			171
			67.1
			874

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

PERMEABILITY, IN MILLIDARCYS



PONDERAY INTERNATIONAL, INC.

WILTSE LEASE
 WILSON COUNTY, KANSAS
 WELL NO. 2 - A

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVERAGE OIL SATURATION PERCENT	AVERAGE WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
0 - 10	10	10	10	10	0.2
10 - 30	20	8	10	10	0.2
30 - 40	10	7	10	10	0.2
40 - 50	10	6	10	10	0.2
50 - 60	10	5	10	10	0.2
60 - 70	10	4	10	10	0.2
70 - 80	10	3	10	10	0.2
80 - 90	10	2	10	10	0.2

PONDERAY INTERNATIONAL, INC.

WILTSE LEASE

WELL NO. 2 - A

WILSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCY
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774.0 - 782.1

5.1

7.8

23.0

67.1

0.42

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CHANUTE, KANSAS
FEBRUARY, 1981

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