

OILFIELD RESEARCH LABORATORIES

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

March 12, 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. 1-C, 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 27, 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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

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

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	1010.0
Bottom of Core	1030.6
Top of Sand	1010.0
Bottom of Sand	1030.6
Total Feet of Permeable Sand	20.1

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
1 - 10	7.5	7.5
10 - 20	7.8	15.3
20 - 35	4.8	20.1

Average Permeability Millidarcys	12.9
Average Percent Porosity	16.5
Average Percent Oil Saturation	24.7
Average Percent Water Saturation	45.5
Average Oil Content, Bbls./A. Ft.	314.
Total Oil Content, Bbls./Acre	6,307.

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LOG

Name Ponderay International, Inc. Lease Wiltse Well No. 1-C

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
1010.0 - 1011.8	Brown shaly sandstone.
1011.8 - 1013.3	Brown sandstone.
1013.3 - 1015.0	Brown shaly sandstone.
1015.0 - 1018.1	Light brown sandstone.
1018.1 - 1019.4	Brown and gray laminated sandstone and shale.
1019.4 - 1019.9	Brown slightly shaly sandstone.
1019.9 - 1020.4	Brown and gray laminated sandstone and shale.
1020.4 - 1022.2	Brown sandstone.
1022.2 - 1023.3	Brown and gray laminated sandstone and shale.
1023.3 - 1027.3	Brown sandstone.
1027.3 - 1027.9	Brown shaly sandstone.
1027.9 - 1030.1	Brown sandstone.
1030.1 - 1030.6	Brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Ponderay International, Inc. Lease Wiltse Well No. 1-C

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1010.5	17.7	22	53	75	302	3.8	1.0	1.0	302	3.80
2	1011.5	15.0	33	38	71	384	3.1	0.8	1.8	307	2.48
3	1012.5	17.3	25	44	69	336	12.	1.5	3.3	504	18.00
4	1013.5	14.1	22	54	76	241	2.8	0.7	4.0	169	1.96
5	1014.6	14.8	32	54	86	367	1.3	1.0	5.0	367	1.30
6	1015.7	16.2	21	46	67	264	16.	1.0	6.0	264	16.00
7	1016.6	18.8	18	43	61	263	20.	1.0	7.0	263	20.00
8	1017.5	16.5	12	46	58	154	19.	1.1	8.1	169	20.90
9	1018.5	14.1	32	45	77	350	1.9	1.3	9.4	455	2.47
10	1019.5	18.8	22	45	67	321	9.6	0.5	9.9	161	4.80
11	1020.5	16.4	23	48	71	293	22.	0.8	10.7	234	17.60
12	1021.5	17.0	33	37	70	435	13.	1.0	11.7	435	13.00
13	1022.5	16.1	23	50	73	287	6.7	1.1	12.8	316	7.37
14	1023.5	17.4	28	38	66	378	10.	1.0	13.8	378	10.00
15	1024.5	17.0	23	47	70	303	26.	1.0	14.8	303	26.00
16	1025.5	16.3	21	49	70	266	10.	1.0	15.8	266	10.00
17	1026.5	17.8	26	45	71	359	33.	1.0	16.8	359	33.00
18	1027.6	14.9	27	54	81	312	6.4	0.6	17.4	187	3.84
19	1028.5	18.4	20	44	64	286	29.	1.0	18.4	286	29.00
20	1029.5	16.8	26	37	63	339	13.	1.2	19.6	407	15.60
21	1030.4	14.5	31	44	75	349	5.2	0.5	20.1	175	2.60

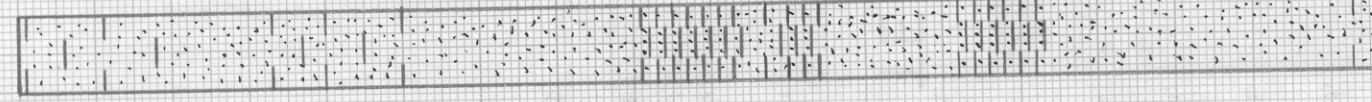
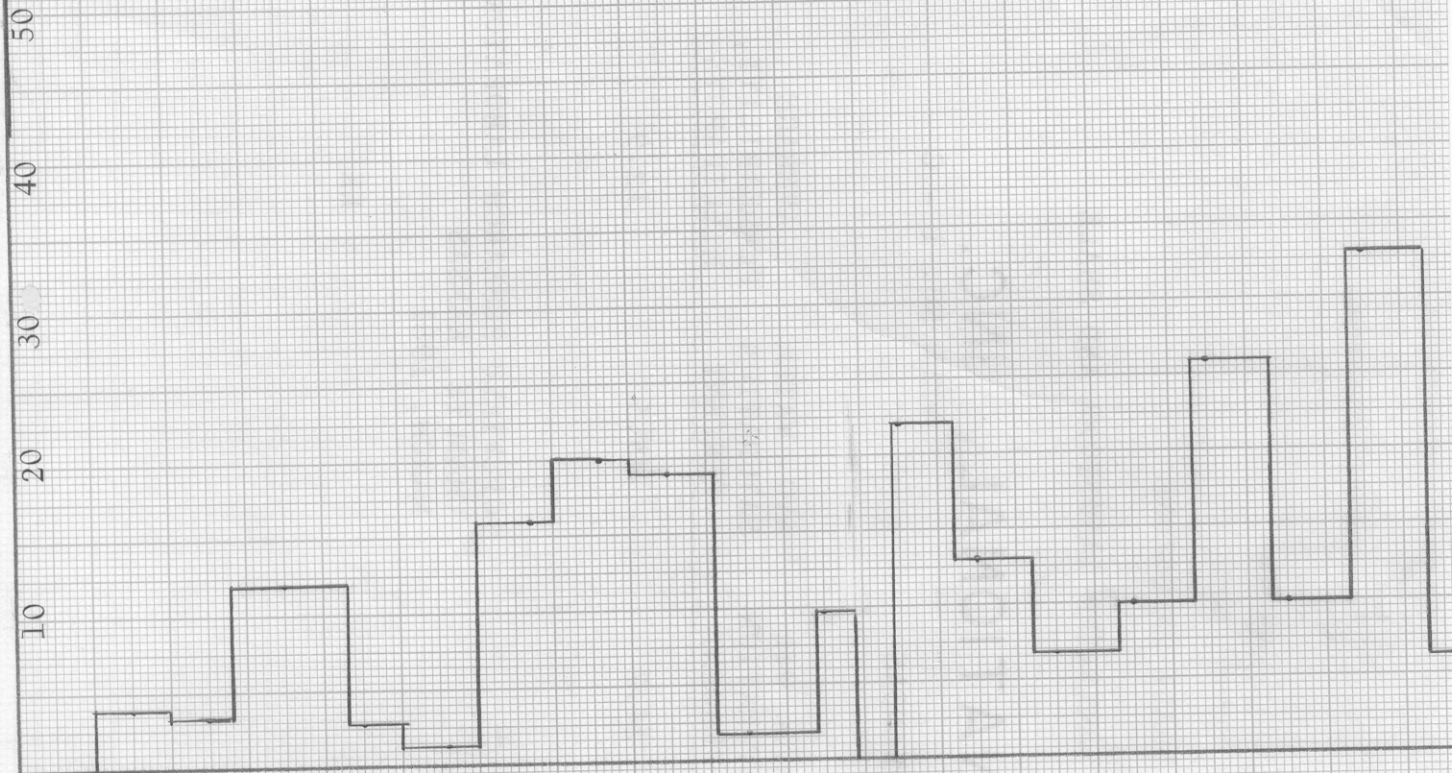
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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Ponderay International, Inc.	Lease	Wiltse	Well No.	1-C	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	Depth Interval, Feet	Average Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	1010.0 - 1030.6	20.1	24.7	45.5	314	6,307
	1010.0 - 1030.6	20.1	16.5	24.7	314	6,307

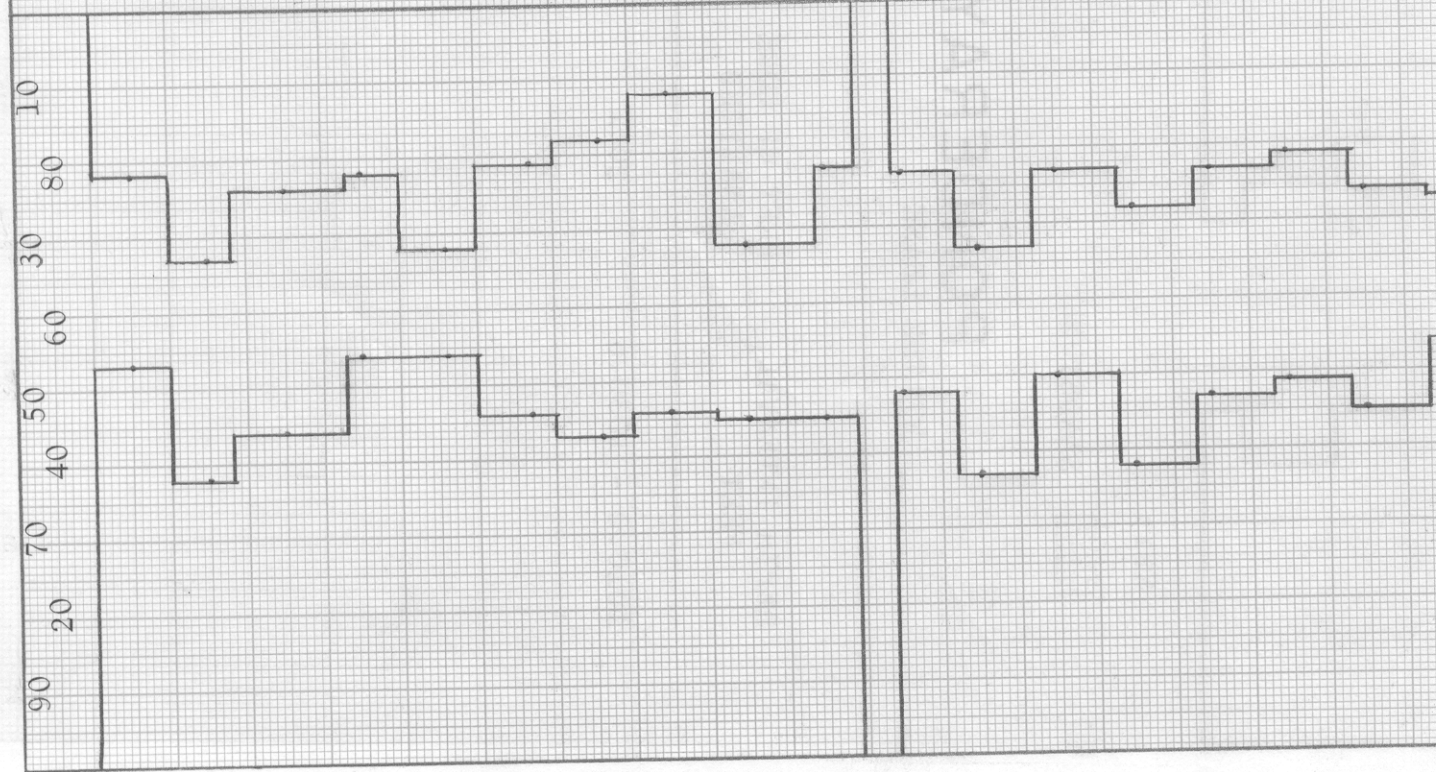
PERMEABILITY, IN MILLIDARCYS

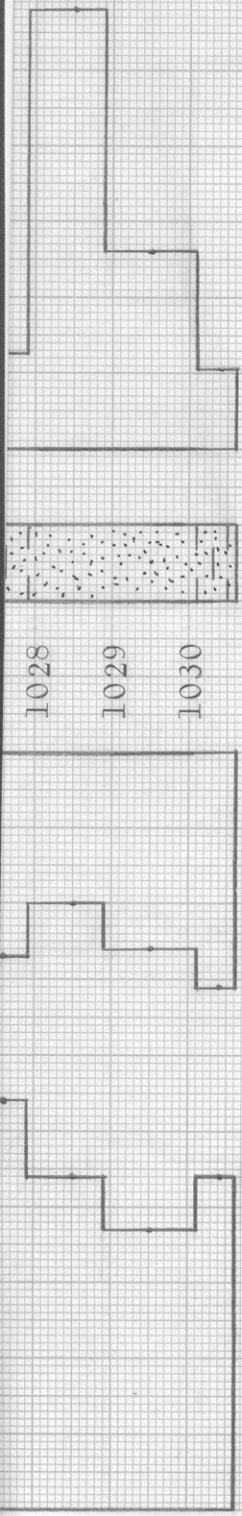


1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
1020
1021
1022
1023
1024
1025
1026
1027


WATER SAT., PERCENT


← OIL SAT., PERCENT →





KEY:

 SANDSTONE

 SHALY SANDSTONE

 LAMINATED SANDSTONE AND SHALE

PONDERAY INTERNATIONAL, INC.

WILTSE LEASE

WELL NO. 1 - C

WILSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE		AVG. OIL		AVG. WATER		AVERAGE	
		POROSITY	PERCENT	SATURATION	PERCENT	SATURATION	PERCENT	PERMEABILITY,	PERCENT
									MILLIDARCYS
1010.0 - 1030.6	20.1	16.5	24.7	45.5	12.9				

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 CHANUTE, KANSAS
 MARCH, 1981

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