

# OILFIELD RESEARCH LABORATORIES

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

February 13, 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, 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 9, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/kas

5 c to Chanute, Kansas

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

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

Elevation, Feet . . . . .	-
Name of Sand . . . . .	Squirrel
Top of Core . . . . .	874.0
Bottom of Core . . . . .	894.8
Top of Sand . . . . .	874.0
Bottom of Sand . . . . .	881.2
Total Feet of Permeable Sand . . . . .	4.6

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.5	2.5
1 - 15	1.6	4.1
40 & Above	0.5	4.6

Average Permeability Millidarcys . . . . .	7.1
Average Percent Porosity . . . . .	14.8
Average Percent Oil Saturation . . . . .	43.2
Average Percent Water Saturation . . . . .	24.7
Average Oil Content, Bbls./A. Ft. . . . .	478.
Total Oil Content, Bbls./Acre . . . . .	2,679.

## OILFIELD RESEARCH LABORATORIES

LOGName Ponderay International, Inc. Lease Wiltse Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
874.0 - 874.9	Hard brown calcareous fossiliferous sandstone.
874.9 - 875.6	Brown and gray laminated sandstone and shale.
875.6 - 876.7	Brown sandstone.
876.7 - 879.8	Brown and gray laminated sandstone and shale.
879.8 - 880.7	Gray sandy shale.
880.7 - 881.2	Brown and gray laminated sandstone and shale.
881.2 - 894.8	Gray sandy shale.

## RESULTS OF SATURATION &amp; PERMEABILITY TESTS

TABLE I-B

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	874.4	9.3	64	18	82	462	0.16	0.9	0.9	416	0.14
2	875.7	17.5	46	16	62	625	41.	0.5	1.4	313	20.50
3	876.5	17.6	43	22	65	587	13.	0.6	2.0	352	7.80
4	877.5	14.4	36	48	84	402	Imp.	1.0	3.0	402	0.00
5	878.5	16.7	42	30	72	544	3.3	1.0	4.0	544	3.30
6	879.5	15.1	29	46	75	340	0.29	1.1	5.1	374	0.31
7	880.9	14.5	51	35	86	574	0.78	0.5	5.6	278	0.39

Company

Ponderay International, Inc.

Lease

Wiltse

Well No. 1

# Oilfield Research Laboratories

## SUMMARY OF PERMEABILITY & SATURATION TESTS

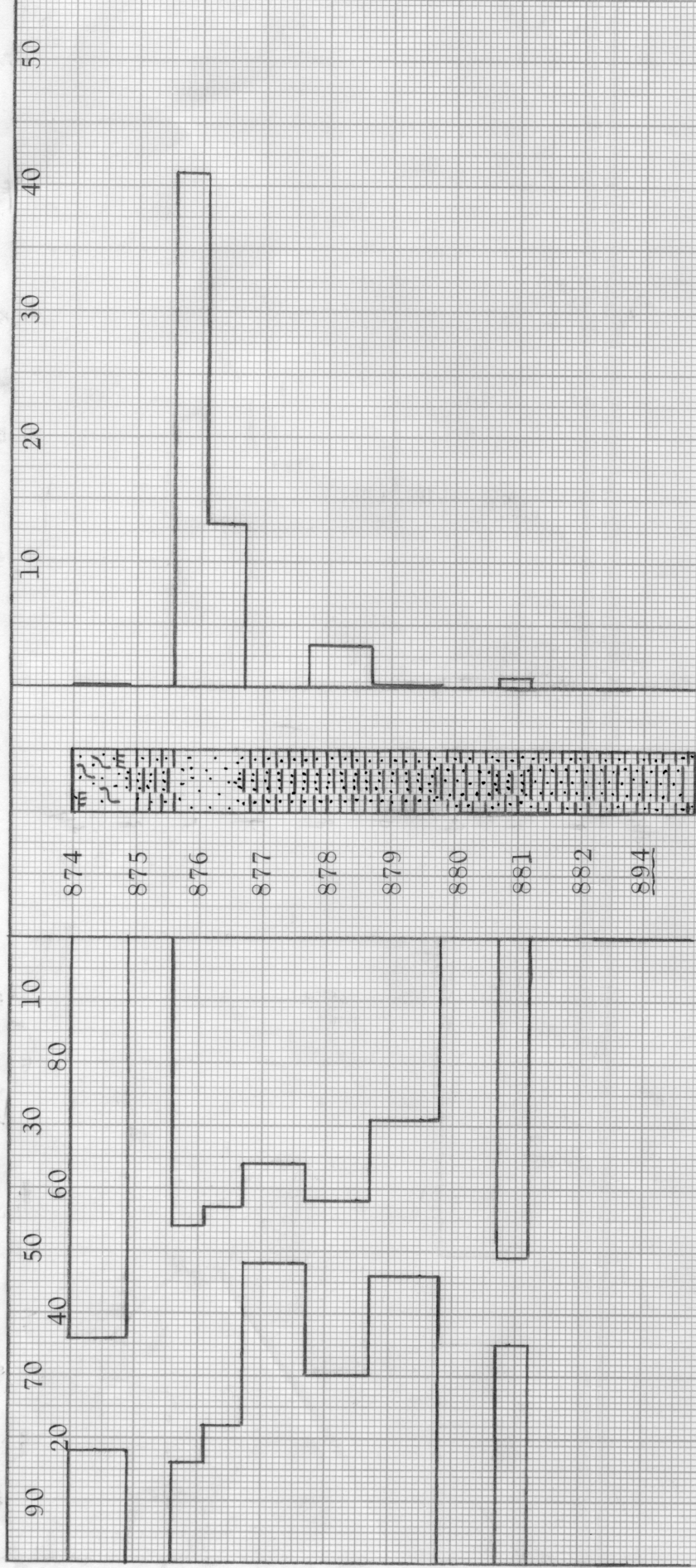
TABLE III

Company		Lease		Well No.		
Ponderay International, Inc.		Wiltse		1		
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
874.0 - 881.2	4.6	7.1	32.44	43.2	24.7	478
874.0 - 881.2	5.6			14.8		2,679




WATER SAT., PERCENT

OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCYS



KEY:

-  CALCAREOUS FOSSILIFEROUS SANDSTONE
-  SANDSTONE
-  SANDSTONE

LAMINATED SANDSTONE & SHALE

SANDY SHALE

# PONDERAY INTERNATIONAL, INC.

WILTSE LEASE

WELL NO. 1

WILSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCS
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874.0 - 881.2

5.6

14.8

43.2

24.7

7.1

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CHANUTE, KANSAS  
FEBRUARY, 1981

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