

OILFIELD RESEARCH LABORATORIES

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

November 7, 1981

Pancana Industries, Ltd.
Box 112
Bronson, Kansas 66716

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Weston Lease, Well No. 22-A, located in Woodson County, Kansas.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/mkf

7 c to Bronson, Ks.

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GENERAL INFORMATION & SUMMARY

Company Pancana Industries, Ltd. Lease Weston Well No. 22-A

Location _____

Section 13 Twp. 24S Rge. 15E County Woodson State Kansas

Elevation, Feet

Name of Sand.....

UPPER SQUIRREL

Top of Core

1086.0

Bottom of Core

1101.0

Top of Sand (Tested)

1087.0

Bottom of Sand (Tested)

1099.5

Total Feet of Permeable Sand

12.5

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 4

4.0

4.0

12 - 20

3.8

7.8

25 - 36

4.7

12.5

Average Permeability Millidarcys

16.9

Average Percent Porosity

16.7

Average Percent Oil Saturation

52.3

Average Percent Water Saturation.....

31.3

Average Oil Content, Bbls./A. Ft.

675.

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

8,434.

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LOGName Pancana Industries, Ltd. Lease Weston Well No. 22-A

Depth Interval, <u>Feet</u>	<u>Description</u>
1086.0 - 1087.0	Gray and brown laminated shale and sandstone.
1087.0 - 1088.2	Brown sandstone with fine shale partings.
1088.2 - 1089.0	Gray and brown laminated shale and sandstone.
1089.0 - 1091.6	Brown sandstone.
1091.6 - 1094.8	Grayish brown shaly sandstone with some shale partings.
1094.8 - 1099.5	Brown sandstone.
1099.5 - 1101.0	Alternate layers of gray and dark brown shale and sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

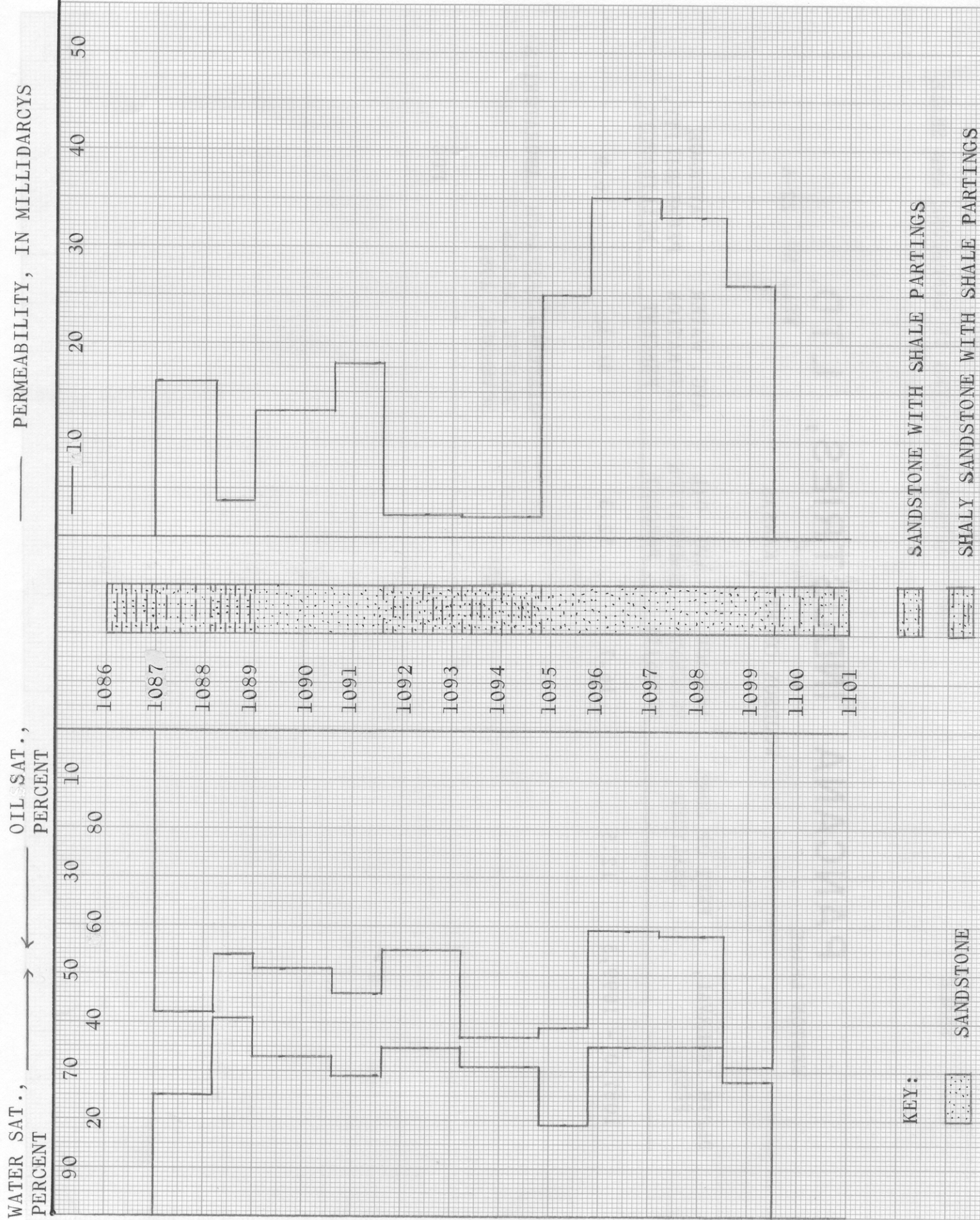
Company Pancana Industries, Ltd. Lease Weston Well No. 22-A

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	Total			Ft.	Cum. Ft.		
1	1087.1	18.3	58	25	83	823	16.	1.2	1.2	988	19.20
2	1088.4	16.4	46	41	87	585	3.8	0.8	2.0	468	3.04
3	1089.6	17.2	49	33	82	654	13.	1.6	3.6	1046	20.80
4	1091.5	19.2	54	29	83	804	18.	1.0	4.6	804	18.00
5	1092.5	14.6	45	35	80	510	2.3	1.6	6.2	816	3.68
6	1094.6	12.3	63	31	94	601	2.2	1.6	7.8	962	3.52
7	1095.3	17.2	61	19	80	814	25.	1.0	8.8	814	25.00
8	1096.7	18.3	41	35	76	582	35.	1.4	10.2	815	49.00
9	1098.1	16.5	42	35	77	538	33.	1.3	11.5	699	42.90
10	1099.4	19.1	69	28	97	1022	26.	1.0	12.5	1022	26.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Pancana Industries, Ltd.	Lease	Weston	Well No.	22-A	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	1087.0 - 1099.5	12.5	16.9	211.14		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbbl./Acre
	1087.0 - 1099.5	12.5	16.7	52.3	31.3	675
						8,434





SHALE



ALTERNATE LAYERS OF SANDSTONE AND SHALE

PANCANA INDUSTRIES, LTD.

WESTON LEASE

WELL NO. 22-A

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
1087.0 - 1099.5	12.5	16.7	52.3	31.3	16.9

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CHANUTE, KANSAS
NOVEMBER, 1981

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