

OILFIELD RESEARCH LABORATORIES

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

November 18, 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 Peutz Lease, Well No. 28, 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 16, 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 Peutz Well No. 28
 Location SW $\frac{1}{4}$, SW $\frac{1}{4}$
 Section 13 Twp. 24S Rge. 15E County Woodson State Kansas

Elevation, Feet

Name of Sand.....

UPPER SQUIRREL

Top of Core

1093.0

Bottom of Core

1108.0

Top of Sand (Tested)

1093.7

Bottom of Sand

1108.0

Total Feet of Permeable Sand

12.8

Distribution of Permeable Sand: Permeability Range Millidarcys

Feet

Cum. Ft.

0 - 10

1.8

1.8

10 - 25

3.4

5.2

25 - 51

5.6

10.8

140 - 676

2.0

12.8

Average Permeability Millidarcys

85.9

Average Percent Porosity

18.8

Average Percent Oil Saturation

48.2

Average Percent Water Saturation

29.6

Average Oil Content, Bbls./A. Ft.

704.

Total Oil Content, Bbls./Acre

9,016.

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LOG

Name Pancana Industries, Ltd. Lease Peutz Well No. 28

Depth Interval, <u>Feet</u>	<u>Description</u>
1093.0 - 1093.7	Grayish brown slightly calcareous shaly sandstone.
1093.7 - 1101.0	Brown sandstone.
1101.0 - 1101.5	Light brown sandstone with micaceous partings.
1101.5 - 1107.0	Brown sandstone.
1107.0 - 1108.0	Dark brown slightly carbonaceous.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Pancana Industries, Ltd. Lease Peutz Well No. 28

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	1094.7	17.2	40	39	79	534	7.5	1.3	1.3	694	9.75
2	1095.4	19.3	51	29	80	764	21.	1.3	2.6	993	27.30
3	1096.4	19.0	42	30	72	619	26.	1.1	3.7	681	28.60
4	1097.5	18.8	44	25	69	642	24.	1.1	4.8	706	26.40
5	1098.7	19.9	59	18	77	911	140.	1.0	5.8	911	140.00
6	1099.6	19.5	48	25	73	726	39.	1.5	7.3	1089	58.50
7	1101.3	17.5	39	42	81	530	8.9	0.5	7.8	265	4.45
8	1102.4	18.9	39	35	74	572	34.	1.0	8.8	572	34.00
9	1104.6	17.2	48	37	85	641	14.	1.0	9.8	641	14.00
10	1105.8	18.7	66	32	98	958	50.	1.0	10.8	958	50.00
11	1106.8	18.9	48	30	78	704	32.	1.0	11.8	704	32.00
12	1107.4	19.5	53	20	73	802	675.	1.0	12.8	802	675.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Pancana Industries, Ltd.		Lease	Peutz	Well No.		28
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys		Permeability Capacity Ft. x Md.				
1093.7 - 1108.0	12.8	85.9		1100.00				
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation		Average Percent Water Saturation		Average Oil Content Bbl./A. Ft.		Total Oil Content Bbls./Acre
1093.7 - 1108.0	12.8	48.2		29.6		704		9,016

WATER SAT.,
PERCENT

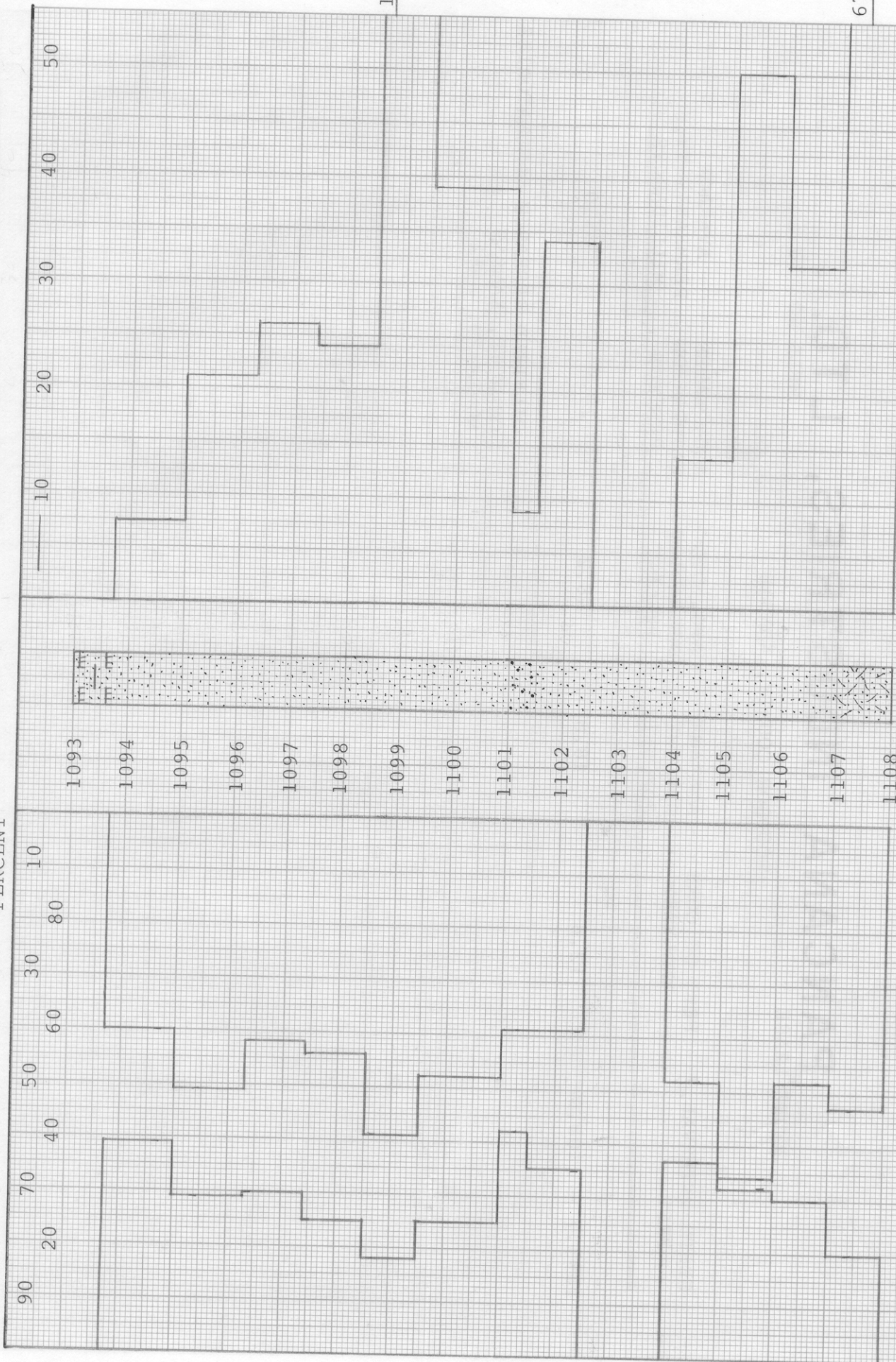
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OIL SAT.,
PERCENT

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PERMEABILITY, IN MILLIDARCYS

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KEY:

CARBONACEOUS SANDSTONE

SANDSTONE

MICACEOUS SANDSTONE

SHALY CALCAREOUS SANDSTONE

PANCANA INDUSTRIES, LTD.

PEUTZ LEASE

WELL NO. 28

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
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1093.7 - 1108.0

12.8

18.8

48.2

29.6

85.9

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CHANUTE, KANSAS
NOVEMBER, 1981

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