

OILFIELD RESEARCH LABORATORIES

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

November 10, 1981

Pancana Resources, 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. 21, 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 6, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

A handwritten signature in cursive script that reads "Sanford A. Michel". The signature is fluid and somewhat stylized, with the first and last names being the most prominent.

Sanford A. Michel

SAM/mkf

7 c to Bronson, Ks.

- REGISTERED ENGINEERS -

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

Offield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Pancana Resources, Ltd. Lease Weston Well No. 21
 Location _____
 Section 13 Twp. 24S Rge. 15E County Woodson State Kansas

Elevation, Feet
 Name of Sand UPPER SQUIRREL
 Top of Core 1090.0
 Bottom of Core 1102.7
 Top of Sand 1090.0
 Bottom of Sand 1102.7
 Total Feet of Permeable Sand 10.5

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 11	1.2	1.2
30 - 50	5.8	7.0
60 - 138	3.5	10.5

Average Permeability Millidarcys 52.7
 Average Percent Porosity 20.6
 Average Percent Oil Saturation 47.9
 Average Percent Water Saturation 25.8
 Average Oil Content, Bbls./A. Ft. 762.
 Total Oil Content, Bbls./Acre 7,999.

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LOG

Name Pancana Resources, Ltd. Lease Weston Well No. 21

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
1090.0 - 1096.5	Brown sandstone.
1096.5 - 1098.0	Grayish brown shaly sandstone.
1098.0 - 1099.5	Brown sandstone.
1099.5 - 1100.2	Grayish brown shaly sandstone.
1100.2 - 1102.7	Dark brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Pancana Resources, Ltd. Lease Weston Well No. 21

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	1090.6	23.2	44	30	74	792	137.	1.2	1.2	950	164.40
2	1092.4	22.0	48	25	73	819	60.	1.3	2.5	1065	78.00
3	1093.3	20.6	43	25	68	687	45.	1.1	3.6	756	49.50
4	1094.4	21.5	51	17	68	851	79.	1.0	4.6	851	79.00
5	1095.5	17.7	56	28	84	769	34.	1.0	5.6	769	34.00
6	1096.3	20.4	60	16	76	950	31.	0.9	6.5	855	27.90
7	1098.6	20.3	44	30	74	693	35.	1.5	8.0	1040	52.50
8	1100.4	21.8	45	24	69	761	43.	1.3	9.3	989	55.90
9	1102.3	16.9	46	33	79	603	10.	1.2	10.5	724	12.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Pancana Resources, Ltd. Lease Weston Well No. 21

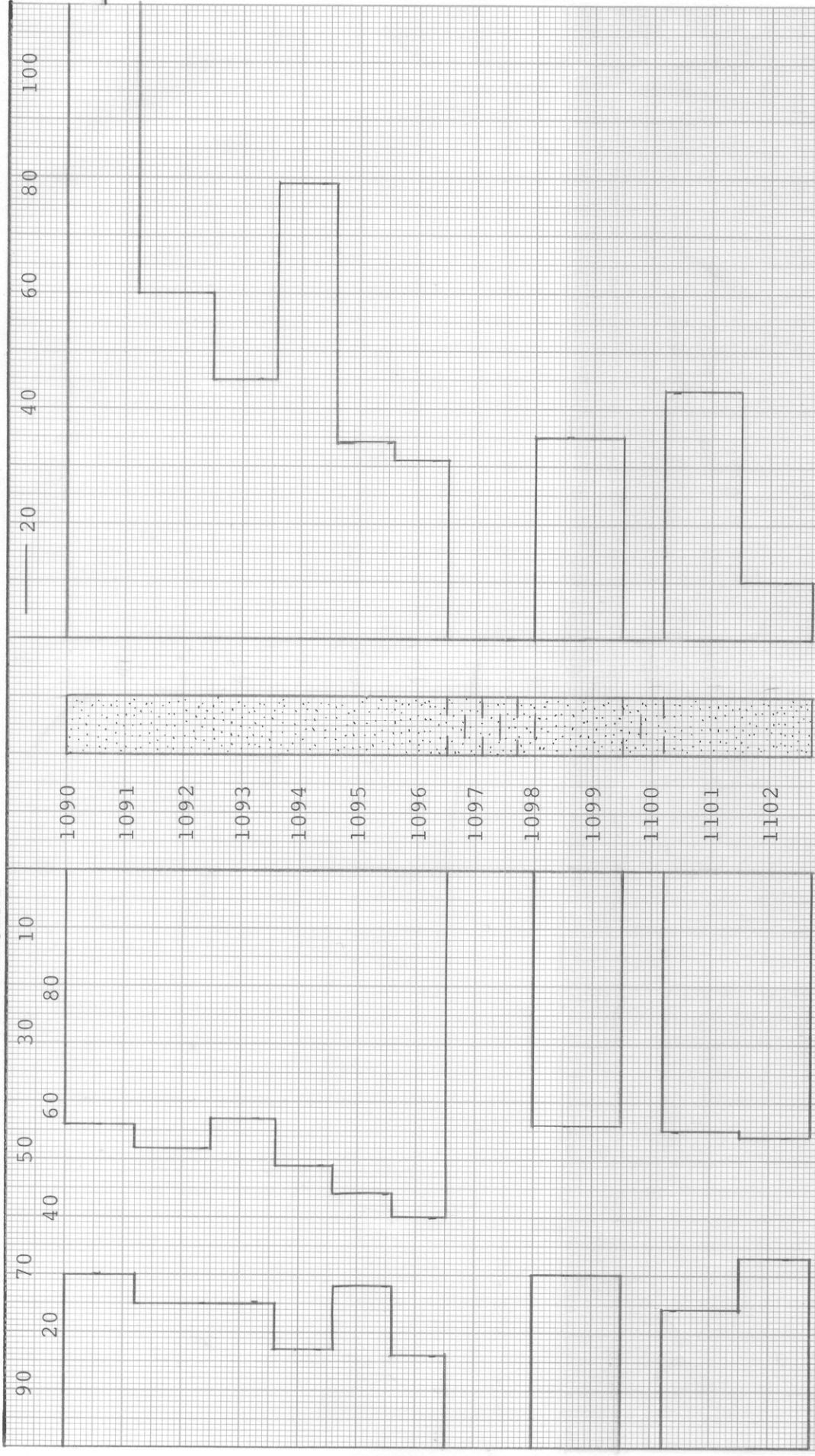
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
1090.0 - 1102.7	10.5	52.7	553.20

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
1090.0-1102.7	10.5	47.9	25.8	762	7,999

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

PERMEABILITY, IN MILLIDARCYS



KEY:



SANDSTONE



SHALY SANDSTONE

PANCANA RESOURCES, LTD.

WESTON LEASE

WOODSON COUNTY, KANSAS

WELL NO. 21

