

OILFIELD RESEARCH LABORATORIES

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

October 22, 1981

Pancana Resources, Ltd.
Box 112
Bronson, Kansas 66716

Gentlemen:

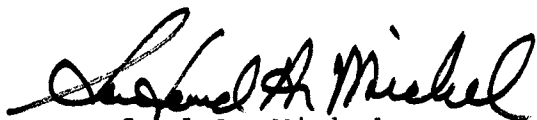
Enclosed herewith are the results of tests run on the rotary core taken from the Gordon Lease, Well No. 12, located in Woodson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on October 15, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

A handwritten signature in black ink, appearing to read "Sanford A. Michel". The signature is fluid and cursive, with the first name "Sanford" and last name "Michel" clearly distinguishable.

Sanford A. Michel

SAM/kas

7 c to Bronson, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Pancana Resources, Ltd. Lease Gordon Well No. 12
 Location _____
 Section 13 Twp. 24S Rge. 15E County Woodson State Kansas

Elevation, Feet

Name of Sand.....

Upper Squirrel

Top of Core

1099.0

Bottom of Core

1111.1

Top of Sand

1099.0

Bottom of Sand

1111.1

Total Feet of Permeable Sand

12.1

Distribution of Permeable Sand: Permeability Range Millidarcys

Feet

Cum. Ft.

1 - 5

2.3

2.3

20 - 25

2.3

4.6

50 - 65

4.6

9.2

75 - 100

2.9

12.1

Average Permeability Millidarcys

47.1

Average Percent Porosity

20.1

Average Percent Oil Saturation

44.7

Average Percent Water Saturation

29.9

Average Oil Content, Bbls./A. Ft.

706.

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

8,540.

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LOGName Pancana Resources, Ltd. Lease Gordon Well No. 12

<u>Depth Interval, Feet</u>	<u>Description</u>
1099.0 - 1100.8	Brown shaly sandstone.
1100.8 - 1102.6	Brown slightly calcareous sandstone.
1102.6 - 1103.6	Brown shaly sandstone.
1103.6 - 1105.8	Brown slightly calcareous sandstone.
1105.8 - 1111.1	Dark brown slightly calcareous sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company		Lease		Well No.	
Pancana Resources, Ltd.		Gordon		12	

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	1099.4	18.2	40	44	84	565	1.7	1.3	1.3	735	2.21
2	1101.6	19.6	31	42	73	471	24.	1.4	2.7	659	33.60
3	1102.5	19.2	46	31	77	685	23.	0.9	3.6	617	20.70
4	1103.5	15.0	41	40	81	477	2.5	1.0	4.6	477	2.50
5	1104.6	21.1	39	23	62	638	99.	1.2	5.8	766	118.80
6	1105.4	20.9	36	32	68	584	51.	1.0	6.8	584	51.00
7	1106.5	21.6	47	22	69	788	62.	1.8	8.6	1418	111.60
8	1108.3	20.9	43	25	68	697	79.	1.7	10.3	1185	134.30
9	1109.5	22.1	68	20	88	1166	53.	1.8	12.1	2099	95.40

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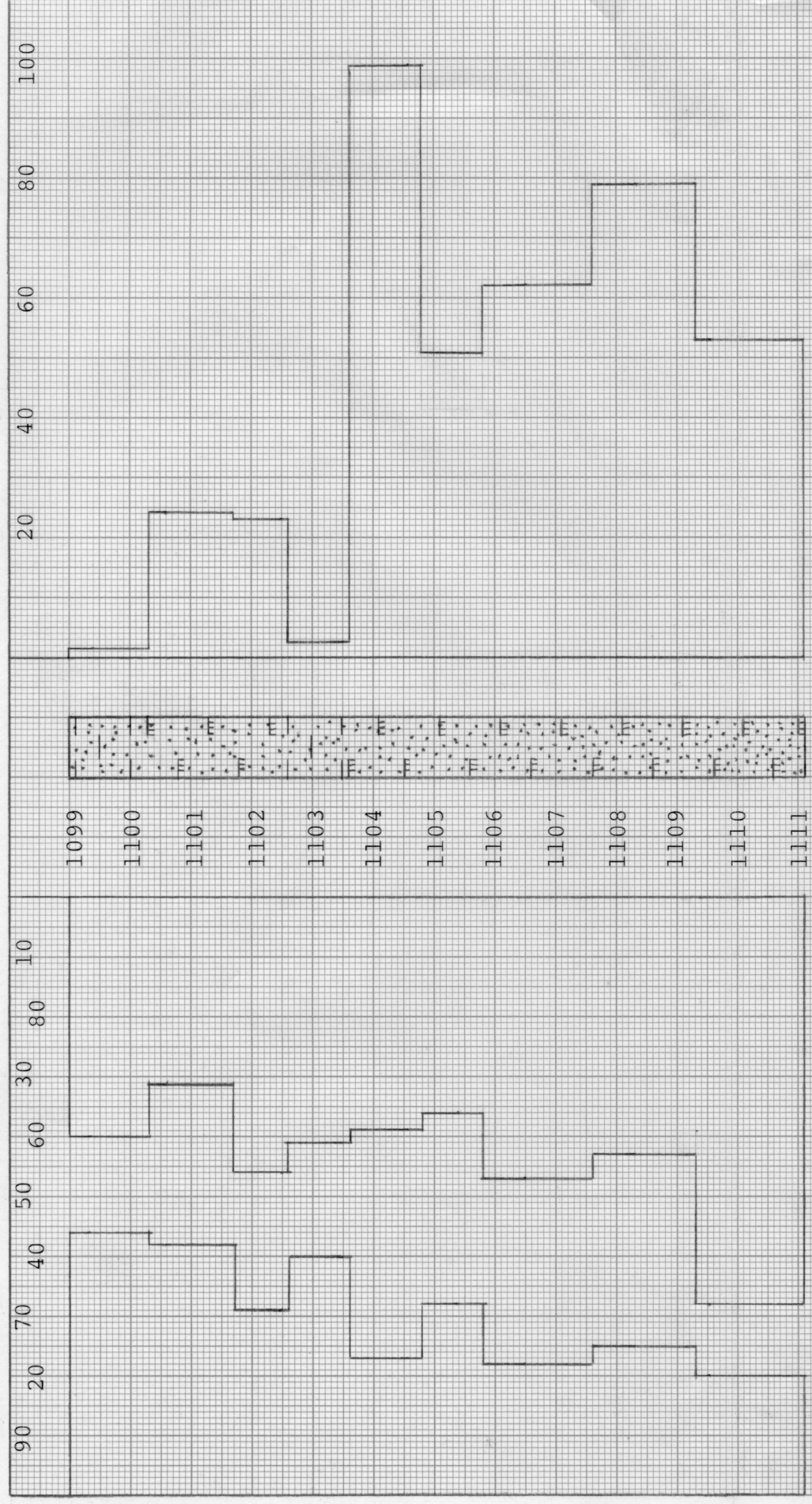
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Pancana Resources, Ltd.		Lease		Gordon		Well No.		12
Depth Interval, Feet		Feet of Core Analyzed		Average Permeability, Millidarcys		Permeability Capacity, Ft. x Md.				
1099.0 - 1103.6		4.6		12.8		59.01				
1103.6 - 1111.1		7.5		68.1		511.10				
1099.0 - 1111.1		12.1		47.1		570.11				
Depth Interval, Feet		Feet of Core Analyzed		Average Percent Porosity		Average Percent Oil Saturation		Average Percent Water Saturation		Total Oil Content Bbls./Acre
1099.0 - 1103.6		4.6		18.1		38.7		40.0		2,488
1103.6 - 1111.1		7.5		21.4		48.4		23.7		6,052
1099.0 - 1111.1		12.1		20.1		44.7		29.9		8,540

WATER SAT., PERCENT ———> OIL SAT., PERCENT <——

———— PERMEABILITY, IN MILLIDARCY



KEY:

SHALY SANDSTONE

CALCAREOUS SANDSTONE

PANCANA RESOURCES, LTD.

GORDON LEASE

WELL NO. 12

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCS
1099.0 - 1103.6	4.6	18.1	38.7	40.0	12.8
1103.6 - 1111.1	7.5	21.4	48.4	23.7	68.1
1099.0 - 1111.1	12.1	20.1	44.7	29.9	47.1

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
OCTOBER, 1981

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