

OILFIELD RESEARCH LABORATORIES

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

October 30, 1981

Pancana Resources, Ltd.
Box 112
Bronson, Kansas 66716

Gentlemen:

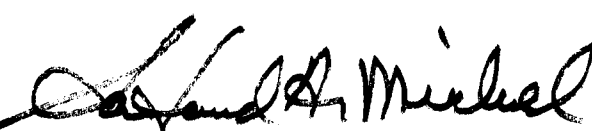
Enclosed herewith are the results of tests run on the rotary core taken from the Gordon Lease, Well No. 13, located in Woodson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on October 26, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

7 c to Bronson, Ks.

SAM/mkf

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GENERAL INFORMATION & SUMMARY

Company Pancana Resources, Ltd. Lease Gordon Well No. 13
 Location NW $\frac{1}{4}$, SE $\frac{1}{4}$
 Section 13 Twp. 24S Rge. 15E County Woodson State Kansas

Elevation, Feet

Name of Sand.....

UPPER SQUIRREL

Top of Core

1082.0

Bottom of Core

1094.0

Top of Sand

1082.0

Bottom of Sand (Tested)

1093.6

Total Feet of Permeable Sand

8.9

Distribution of Permeable Sand: Permeability Range Millidarcys

Feet

Cum. Ft.

1 - 10

2.3

2.3

14 - 36

3.0

5.3

40 - 50

2.0

7.3

80 - 120

1.6

8.9

Average Permeability Millidarcys

38.2

Average Percent Porosity

19.7

Average Percent Oil Saturation

27.6

Average Percent Water Saturation.....

38.6

Average Oil Content, Bbls./A. Ft.....

421.

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

3,745.

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LOGName Pancana Resources, Ltd. Lease Gordon Well No. 13

<u>Depth Interval, Feet</u>	<u>Description</u>
	UPPER SQUIRREL
1082.0 - 1084.0	Grayish brown shaly sandstone.
1084.0 - 1085.3	Brown sandstone.
1085.3 - 1086.6	Grayish brown shaly sandstone.
1086.6 - 1087.3	Grayish brown calcareous sandstone.
1087.3 - 1087.6	Brown sandstone..
1087.6 - 1089.6	Grayish brown slightly calcareous sandstone.
1089.6 - 1093.6	Brown sandstone.
1093.6 - 1094.0	Brown sandstone with shale partings.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Pancana Resources, Ltd. Lease Gordon Well No. 13

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	1082.3	19.9	26	53	79	401	8.0	1.0	1.0	401	8.00
2	1084.5	22.2	22	47	69	379	14.	1.3	2.3	493	18.20
3	1085.7	18.8	18	62	80	263	4.7	1.3	3.6	342	6.11
4	1087.5	18.5	30	38	68	431	35.	0.3	3.9	129	10.50
5	1088.8	16.2	32	22	54	402	118.	1.0	4.9	402	118.00
6	1090.4	19.0	25	32	57	369	28.	1.4	6.3	5.7	39.20
7	1091.5	20.9	38	27	65	616	44.	1.0	7.3	616	44.00
8	1092.5	21.2	32	29	61	526	47.	1.0	8.3	526	47.00
9	1093.5	19.0	36	24	60	531	82.	0.6	8.9	319	49.20

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SUMMARY OF PERMEABILITY & SATURATION TESTS

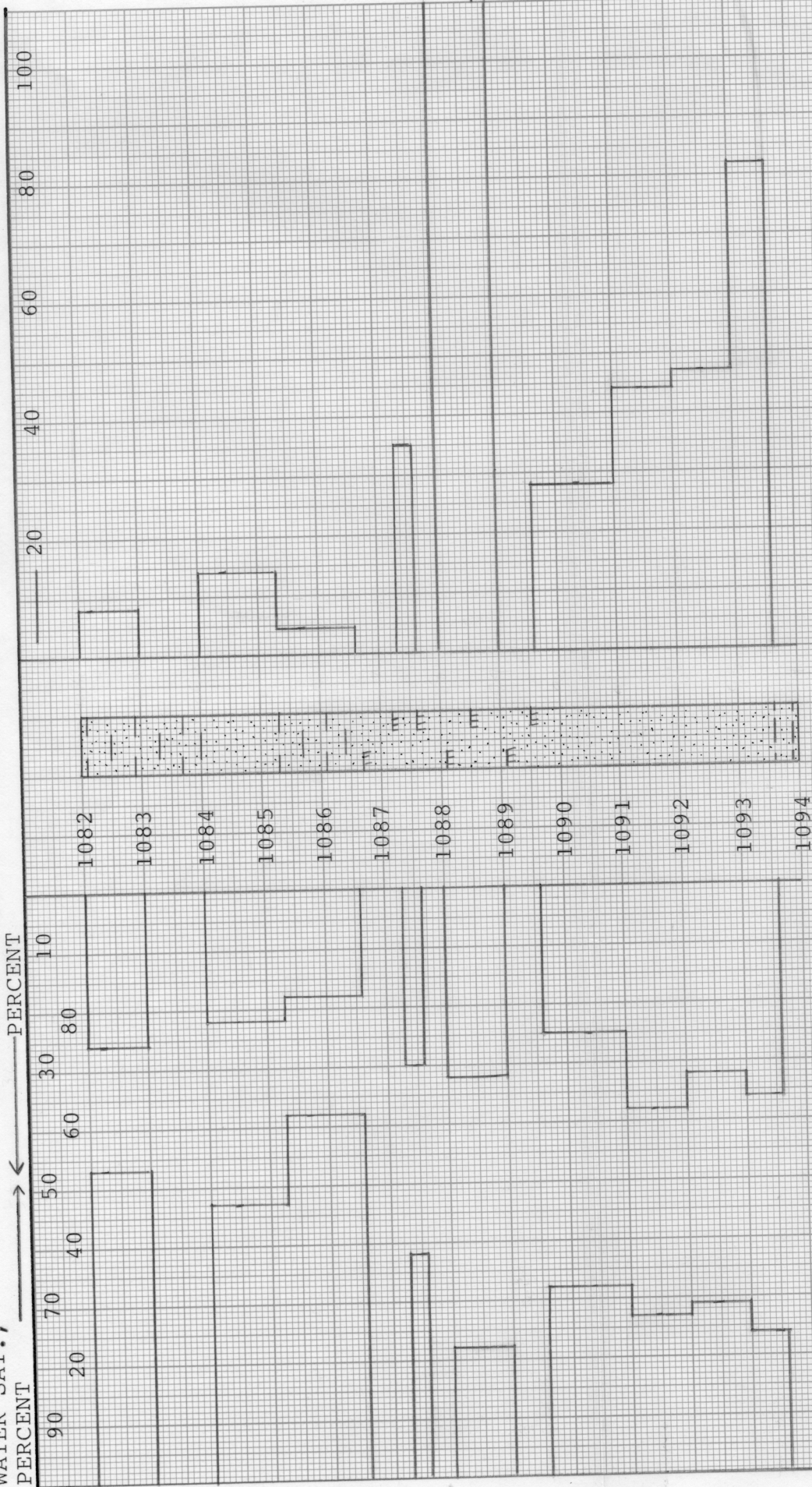
TABLE III

Company		Pancana Resources, Ltd.		Lease	Gordon	Well No.	
						13	
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
1082.0 - 1086.6	3.6	20.3	21.7	54.1	9.0	32.31	1,236
1087.3 - 1093.6	5.3	19.2	31.6	28.0	58.1	307.90	2,509
1082.0 - 1093.6	8.9	19.7	27.6	38.6	38.2	340.21	3,745

PERMEABILITY, IN MILLIDARCYS

WATER SAT., PERCENT

OIL SAT., PERCENT



KEY:

SANDSTONE

SHALY SANDSTONE

CALCAREOUS SANDSTONE

SANDSTONE WITH SHALE PARTINGS

PANCANA RESOURCES, LTD.

GORDON LEASE

WELL NO. 13

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
1082.0 - 1086.6	3.6	20.3	21.7	54.1	9.0
1087.3 - 1093.6	5.3	19.2	31.6	28.0	58.1
1082.0 - 1093.6	8.9	19.7	27.6	38.6	38.2

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CHANUTE, KANSAS
OCTOBER, 1981
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