

OILFIELD RESEARCH LABORATORIES

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

October 28, 1981

Pancana Resources, Ltd.
Box 112
Bronson, Kansas 66716

Gentlemen:

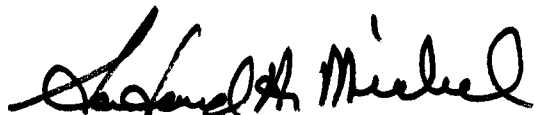
Enclosed herewith are the results of tests run on the rotary core taken from the Gordon Lease, Well No. 14, located in Woodson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on October 21, 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. 14
 Location _____
 Section 13 Twp. 24S Rge. 15E County Woodson State Kansas

Elevation, Feet

Name of Sand

Upper Squirrel

Top of Core

1079.0

Bottom of Core

1088.0

Top of Sand

1079.0

Bottom of Sand

1088.0

Total Feet of Permeable Sand

9.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	2.8	2.8
10 - 30	3.2	6.0
30 - 50	3.0	9.0

Average Permeability Millidarcys

20.3

Average Percent Porosity

18.1

Average Percent Oil Saturation

43.6

Average Percent Water Saturation

32.7

Average Oil Content, Bbls./A. Ft.

614.

Total Oil Content, Bbls./Acre

5,527.

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LOG

Name Pancana Resources, Ltd. Lease Gordon Well No. 14

<u>Depth Interval, Feet</u>	<u>Description</u>
1079.0 - 1084.0	Light brown sandstone.
1084.0 - 1084.8	Grayish brown slightly shaly sandstone.
1084.8 - 1087.0	Grayish brown sandstone with shale partings.
1087.0 - 1088.0	Grayish brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Pancana Resources, Ltd. Lease Gordon Well No. 14

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	1079.5	17.4	34	37	71	459	38.	1.5	1.5	689	57.00
2	1081.6	20.4	55	29	84	870	31.	1.5	3.0	1305	46.50
3	1082.3	21.0	40	29	69	652	25.	1.0	4.0	652	25.00
4	1083.3	18.1	42	28	70	590	17.	1.0	5.0	590	17.00
5	1084.2	16.7	40	38	78	518	8.5	0.8	5.8	414	6.80
6	1085.2	17.6	40	38	78	546	15.	1.2	7.0	655	18.00
7	1086.2	18.1	47	30	77	660	9.6	1.0	8.0	660	9.60
8	1087.2	14.5	50	32	82	562	2.8	1.0	9.0	562	2.80

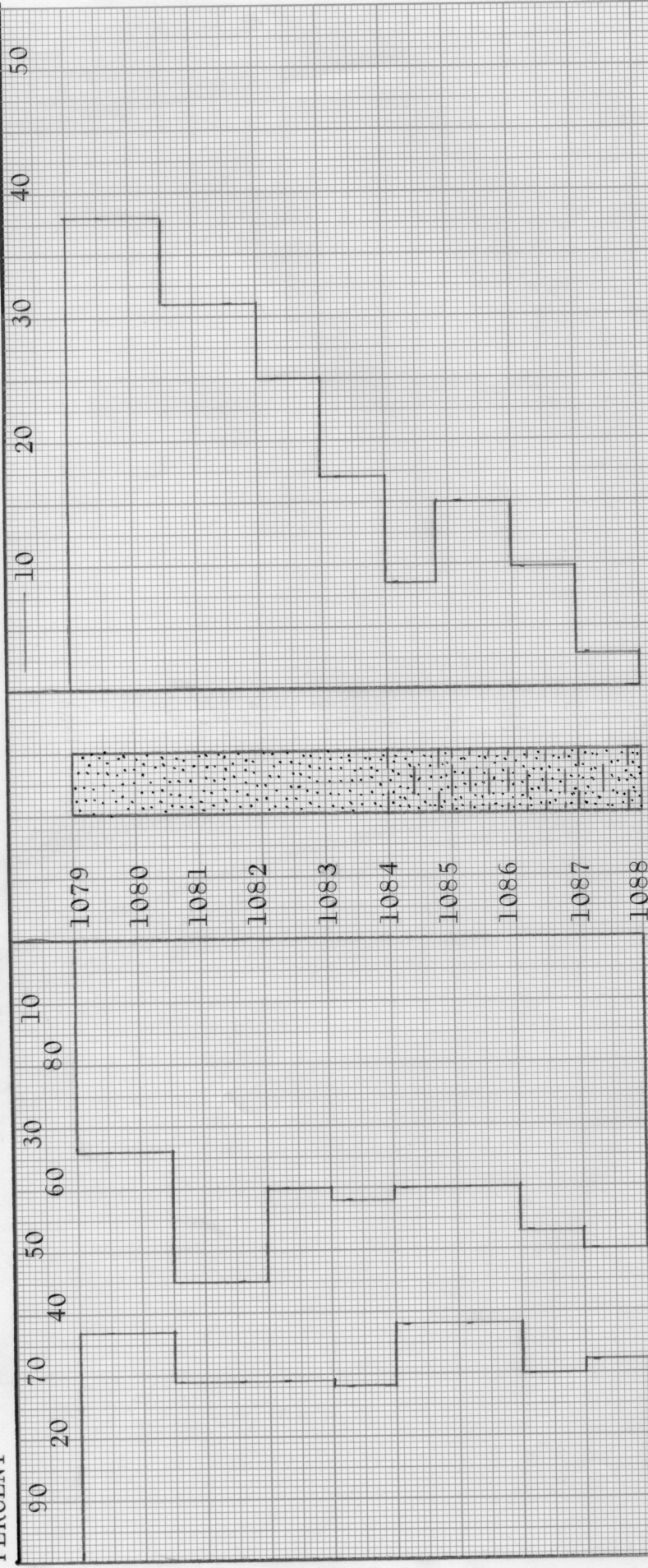
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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Pancana Resources, Ltd.		Lease		Gordon		Well No.		14			
Depth Interval, Feet		Feet of Core Analyzed		Average Permeability, Millidarcys		Permeability Capacity Ft. x Md.							
1079.0 - 1088.0		9.0		20.3		182.70							
Depth Interval, Feet		Feet of Core Analyzed		Average Percent Porosity		Average Percent Oil Saturation		Average Percent Water Saturation		Average Oil Content Bbl./A. Ft.		Total Oil Content Bbbs./Acre	
1079.0 - 1088.0		9.0		18.1		43.6		32.7		614		5,527	

WATER SAT., —————→ OIL SAT.,
PERCENT PERCENT

————— PERMEABILITY, IN MILLIDARCYS



KEY:

SHALY SANDSTONE

SANDSTONE

SANDSTONE WITH SHALE PARTINGS

PANCANA RESOURCES, LTD.

GORDON LEASE

WELL NO. 14

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVG. OIL		AVG. WATER		AVERAGE PERMEABILITY, MILLIDARCS
		AVERAGE PERCENT POROSITY	SATURATION PERCENT	SATURATION PERCENT	PERMEABILITY, MILLIDARCS	

1079.0 - 1088.0	9.0	18.1	43.6	32.7	20.3
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OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
OCTOBER, 1981

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