

# OILFIELD RESEARCH LABORATORIES

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

October 23, 1981

Pancana Resources, Ltd.  
Box 112  
Bronson, Kansas 66716

Gentlemen:

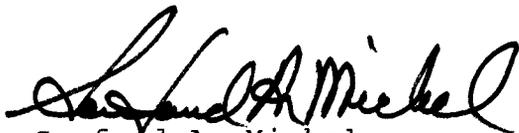
Enclosed herewith are the results of tests run on the rotary core taken from the Gordon Lease, Well No. 11, located in Woodson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on October 19, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/kas

7 c to Bronson, Kansas

**Oilfield Research Laboratories**  
**GENERAL INFORMATION & SUMMARY**

Company Pancana Resources, Ltd. Lease Gordon Well No. 11  
 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 ..... 1119.0  
 Top of Sand ..... 1099.8  
 Bottom of Sand ..... 1119.0  
 Total Feet of Permeable Sand ..... 15.9

**Distribution of Permeable Sand:**  
 Permeability Range  
 Millidarcys

Permeability Range Millidarcys	Feet	Cum. Ft.
1 - 10	5.1	5.1
10 - 20	2.9	8.0
20 - 35	5.9	13.9
85 & Above	2.0	15.9

Average Permeability Millidarcys ..... 26.8  
 Average Percent Porosity ..... 19.5  
 Average Percent Oil Saturation ..... 48.1  
 Average Percent Water Saturation ..... 32.5  
 Average Oil Content, Bbls./A. Ft. .... 733.  
 Total Oil Content, Bbls./Acre ..... 11,647.

## OILFIELD RESEARCH LABORATORIES

LOGName Pancana Resources, Ltd. Lease Gordon Well No. 11

<u>Depth Interval, Feet</u>	<u>Description</u>
1099.0 - 1099.8	Gray limestone.
1099.8 - 1100.5	Grayish brown shaly sandstone.
1100.5 - 1104.0	Brown sandstone.
1104.0 - 1106.6	Grayish light brown shaly sandstone.
1106.6 - 1108.0	Brown sandstone.
1108.0 - 1111.0	Grayish brown shaly sandstone.
1111.0 - 1112.0	Brown sandstone with some fine shale partings.
1112.0 - 1112.8	Brown sandstone with shale partings.
1112.8 - 1116.7	Brown sandstone.
1116.7 - 1119.0	Brown sandstone with shale partings.

## RESULTS OF SATURATION &amp; PERMEABILITY TESTS

TABLE 1-B

Company Pancana Resources, Ltd.Lease GordonWell No. 11

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	1100.3	20.8	25	48	73	1.9	0.7	0.7	282	1.33
2	1101.9	19.9	28	47	75	20.	1.5	2.2	648	30.00
3	1102.4	20.1	50	26	76	27.	1.0	3.2	780	27.00
4	1103.6	18.0	46	42	88	12.	1.0	4.2	642	12.00
5	1104.4	17.3	58	30	88	2.6	1.0	5.2	778	2.60
6	1105.3	17.5	51	34	85	5.7	1.6	6.8	1107	9.12
7	1106.7	18.5	34	36	70	20.	1.4	8.2	699	28.00
8	1108.4	18.2	34	40	74	8.6	1.0	9.2	480	8.60
9	1111.6	18.9	49	29	78	26.	1.0	10.2	719	26.00
10	1112.6	17.8	71	27	98	3.6	0.8	11.0	785	2.88
11	1113.5	19.2	43	34	77	11.	0.9	11.9	577	9.90
12	1114.4	18.0	54	30	84	13.	1.0	12.9	754	13.00
13	1115.4	22.8	57	23	80	87.	1.0	13.9	1008	87.00
14	1116.5	21.7	71	24	95	32.	1.0	14.9	1195	32.00
15	1118.4	24.8	62	12	74	137.	1.0	15.9	1193	137.00

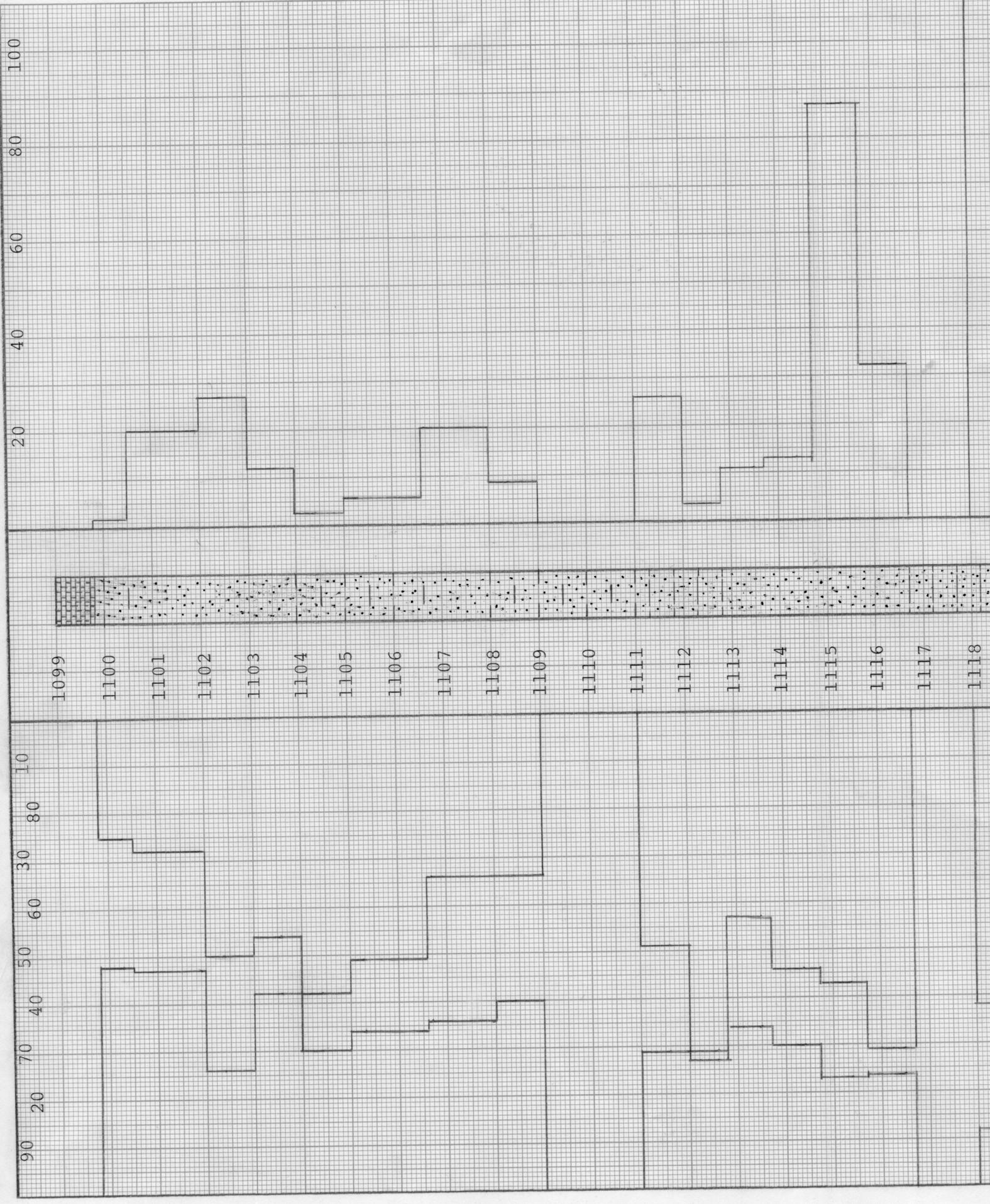
# Oilfield Research Laboratories

## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Gordon	Well No.	
Pancana Resources, Ltd.				11
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
1099.8 - 1119.0	15.9	26.8	426.43	
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
1099.8 - 1119.0	15.9	48.1	32.5	733
				Total Oil Content Bbls./Acre
				11,647

PERCENT ← PERCENT



1119

KEY:

 LIMESTONE

 SANDSTONE

 SHALY SANDSTONE

 SANDSTONE WITH SHALE PARTINGS

# PANCANA RESOURCES LTD.

GORDON LEASE

WELL NO. 11

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 - 1119.0

15.9

19.5

48.1

32.5

26.8

OILFIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS  
OCTOBER, 1981

MKF