

# 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. 15, 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

SAM/mkf

7 c to Bronson, Ks.

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

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

Elevation, Feet .....

Name of Sand .....

UPPER SQUIRREL

Top of Core .....

1108.0

Bottom of Core .....

1119.7

Top of Sand .....

1108.0

Bottom of Sand .....

1119.7

Total Feet of Permeable Sand .....

11.7

### Distribution of Permeable Sand: Permeability Range Millidarcys

Feet

Cum. Ft.

0 - 30

6.0

6.0

30 - 60

1.5

7.5

60 - 100

4.2

11.7

Average Permeability Millidarcys .....

46.1

Average Percent Porosity .....

21.4

Average Percent Oil Saturation .....

44.1

Average Percent Water Saturation .....

31.9

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

728.

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

8,521.

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## LOG

Name Pancana Resources, Ltd. Lease Gordon Well No. 15

Depth Interval,  
Feet

Description

1108.0 - 1116.0

Brown sandstone.

1116.0 - 1119.7

Dark brown sandstone.

**Oilfield Research Laboratories**  
**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE I-B**

Company Pancana Resources, Ltd. Lease Gordon Well No. 15

| 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          | 1108.6      | 21.6                       | 33                 | 39    | 72    | 553                       | 15.          | 1.0          | 1.0      | 553               | 15.00                    |
| 2          | 1109.8      | 21.3                       | 31                 | 43    | 74    | 512                       | 25.          | 1.0          | 2.0      | 512               | 25.00                    |
| 3          | 1110.7      | 22.1                       | 31                 | 44    | 75    | 532                       | 24.          | 1.5          | 3.5      | 798               | 36.00                    |
| 4          | 1112.2      | 22.0                       | 41                 | 34    | 75    | 700                       | 22.          | 1.5          | 5.0      | 1050              | 33.00                    |
| 5          | 1113.4      | 22.1                       | 46                 | 28    | 74    | 789                       | 68.          | 1.5          | 6.5      | 1184              | 102.00                   |
| 6          | 1114.6      | 20.6                       | 52                 | 24    | 76    | 831                       | 42.          | 1.5          | 8.0      | 1247              | 63.00                    |
| 7          | 1116.4      | 20.4                       | 45                 | 27    | 72    | 712                       | 94.          | 1.0          | 9.0      | 712               | 94.00                    |
| 8          | 1117.5      | 19.7                       | 59                 | 26    | 85    | 902                       | 25.          | 1.0          | 10.0     | 902               | 25.00                    |
| 9          | 1118.6      | 22.1                       | 50                 | 30    | 80    | 857                       | 83.          | 1.0          | 11.0     | 857               | 83.00                    |
| 10         | 1119.4      | 21.3                       | 61                 | 18    | 79    | 1008                      | 90.          | 0.7          | 11.7     | 706               | 63.00                    |

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

| Company                 |                          | Pancana Resources, Ltd.        |                                         | Lease                                  | Gordon                                | Well No.                           | 15 |
|-------------------------|--------------------------|--------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------|------------------------------------|----|
| Depth Interval,<br>Feet | Feet of Core<br>Analyzed | Feet of Core<br>Analyzed       | Average<br>Permeability,<br>Millidarcys | Permeability<br>Capacity<br>Ft. x Md.  |                                       |                                    |    |
| 1108.0 - 1119.7         | 11.7                     | 11.7                           | 46.1                                    | 539.00                                 |                                       |                                    |    |
| Depth Interval,<br>Feet | Feet of Core<br>Analyzed | Average<br>Percent<br>Porosity | Average<br>Percent Oil<br>Saturation    | Average<br>Percent Water<br>Saturation | Average<br>Oil Content<br>Bbl./A. Ft. | Total Oil<br>Content<br>Bbls./Acre |    |
| 1108.0 - 1119.7         | 11.7                     | 21.4                           | 44.1                                    | 31.9                                   | 728                                   | 8,521                              |    |

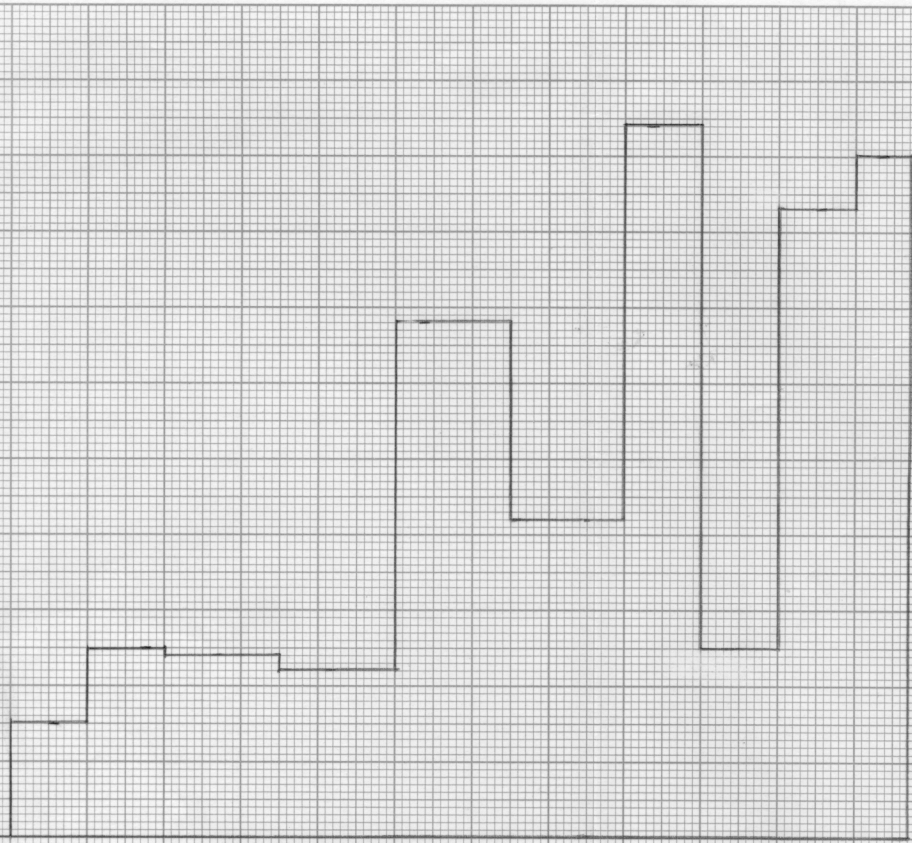
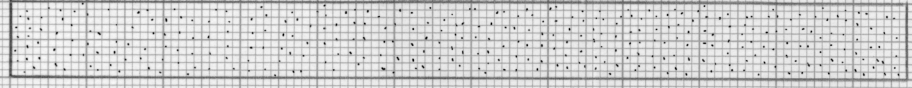
WATER SAT., PERCENT

WATER SAT., PERCENT

→ ← OIL SAT., PERCENT

90 70 20 40 50 60 30 80 10

1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119



KEY:

SANDSTONE

# PANCANA RESOURCES, LTD.

GORDON LEASE

WELL NO. 15

WOODSON COUNTY, KANSAS

| DEPTH INTERVAL,<br>FEET | FEET OF CORE<br>ANALYZED | AVERAGE<br>PERCENT<br>POROSITY | AVG. OIL<br>SATURATION<br>PERCENT | AVG. WATER<br>SATURATION<br>PERCENT | AVERAGE<br>PERMEABILITY,<br>MILLIDARCYS |
|-------------------------|--------------------------|--------------------------------|-----------------------------------|-------------------------------------|-----------------------------------------|
|-------------------------|--------------------------|--------------------------------|-----------------------------------|-------------------------------------|-----------------------------------------|

1108.0 - 1119.7 11.7

21.4

44.1

31.9

46.1

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CHANUTE, KANSAS  
OCTOBER, 1981

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