



OILFIELD RESEARCH LABORATORIES

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

March 5, 1981

Ponderay International, Inc.
Drawer "D"
Chanute, Kansas 66720

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Stirewalt Lease, Well No. C-1, located in Section 17, T-29S, R-19E, Neosho County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on February 23, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/mkf

5 c to Chanute, Ks.

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

OILFIELD RESEARCH LABORATORIES

LOGName Ponderay International, Inc. Lease Stirewalt Well No. C-1

| <u>Depth Interval, Feet</u> | <u>Description</u> | <u>BARTLESVILLE SAND</u> |
|---------------------------------|---|------------------------------|
| 750.0 - 753.0 | Gray sandy shale. | |
| 753.0 - 760.0 | Loss. | |
| 762.0 - 763.0 | Light brown shaly sandstone. | |
| 764.0 - 766.3 | Gray sandy shale. | |
| 766.3 - 767.0 | Brown sandstone. | |
| 767.0 - 768.3 | Gray sandy shale. | |
| 768.3 - 772.0 | Brown and gray laminated sandstone and shale. | |
| 772.0 - 772.7 | Brown sandstone. | |
| 772.7 - 774.2 | Brown and gray laminated sandstone and shale. | |
| 774.2 - 774.8 | Brown sandstone. | |
| 774.8 - 776.1 | Brown and gray laminated sandstone and shale. | |
| 776.1 - 777.0 | Brown sandstone. | |
| 777.0 - 779.1 | Brown and gray laminated sandstone and shale. | |
| 779.1 - 780.0 | Brown slightly shaly sandstone. | |
| 780.0 - 780.3 | Gray sandy shale. | |
| 780.3 - 780.8 | Brown sandstone. | |
| 780.8 - 781.0 | Gray shale. | |

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Ponderay International, Inc. ~~Leads~~ Stirewalt Well No. C-1

| Sample No. | Depth, Feet | Porosity Percent | Percent Saturation | | | Oil Content Bbls. / A Ft. | Perm., Mill. |
|------------|-------------|------------------|--------------------|-------|-------|---------------------------|--------------|
| | | | Oil | Water | Total | | |
| 1 | 762.6 | 16.9 | 29 | 2 | 31 | 380 | 7.4 |
| 2 | 766.5 | 17.8 | 29 | 2 | 31 | 401 | 16. |
| 3 | 768.6 | 16.9 | 23 | 32 | 55 | 302 | 4.2 |
| 4 | 769.3 | 10.6 | 39 | 50 | 89 | 321 | Imp. |
| 5 | 770.3 | 16.8 | 50 | 21 | 71 | 652 | Imp. |
| 6 | 771.6 | 11.0 | 46 | 40 | 86 | 393 | Imp. |
| 7 | 772.6 | 17.8 | 34 | 11 | 45 | 470 | 22. |
| 8 | 773.7 | 17.3 | 45 | 20 | 65 | 604 | 7.2 |
| 9 | 774.7 | 18.2 | 44 | 18 | 62 | 621 | 26. |
| 10 | 775.5 | 15.9 | 18 | 38 | 56 | 222 | 6.8 |
| 11 | 776.4 | 18.4 | 53 | 12 | 65 | 757 | 11. |
| 12 | 777.5 | 14.5 | 50 | 28 | 78 | 563 | 1.5 |
| 13 | 778.6 | 15.3 | 54 | 22 | 76 | 641 | 2.5 |
| 14 | 779.6 | 16.9 | 64 | 3 | 67 | 839 | 8.0 |
| 15 | 780.6 | 14.5 | 57 | 21 | 78 | 641 | 16. |