



OILFIELD RESEARCH LABORATORIES

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

April 23, 1982

Iona- Unruh
705 Cheyenne
Coffeyville, Kansas 67337

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Krusky-Monroe Lease, Well No. 5, located in Section 18, T-32S, R-13E, in Chautauqua County, Kansas.

The core was sampled by a representative of Oilfield Research Laboratories and was received in our laboratory on April 21, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/pdc

5 c to Coffeyville, Kansas

- REGISTERED ENGINEERS -

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

OILFIELD RESEARCH LABORATORIES

LOGName Iona - Unruh Lease Krusky-Monroe Well No. 5

| <u>Depth Interval,</u> <u>Feet</u> | <u>Description</u> |
|---------------------------------------|--|
| | Wiser Sand |
| 1049.0 - 1051.0 | Brown slightly shaly sandstone. |
| 1051.0 - 1051.8 | Light brown shaly sandstone. |
| 1051.8 - 1053.0 | Light brown sandstone. |
| 1053.0 - 1053.8 | Light brown slightly shaly sandstone. |
| 1053.8 - 1054.7 | Light brown shaly sandstone. |
| 1054.7 - 1058.3 | Light brown sandstone. |
| 1058.3 - 1060.0 | Light brown sandstone with scattered gray shale partings containing a vertical fracture. |
| 1060.0 - 1062.0 | Light brown sandstone containing a vertical fracture. |
| 1062.0 - 1063.0 | Grayish light brown shaly sandstone containing a vertical fracture. |
| 1063.0 - 1064.6 | Brown sandstone containing a vertical fracture. |
| 1064.6 - 1068.3 | Grayish brown shaly sandstone. |

Oilfield Research Laboratories
RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Iona - Unruh Lease Krusky-Monroe Well No. 5

| Sample No. | Depth, Feet | Porosity Percent | Percent Saturation | | | Oil Content Bbls. / A Ft. | Perm., Mill. |
|------------|-------------|------------------|--------------------|-------|-------|---------------------------|--------------|
| | | | Oil | Water | Total | | |
| 1 | 1049.5 | 14.3 | 31 | 57 | 88 | 344 | 6.3 |
| 2 | 1050.5 | 15.2 | 27 | 62 | 89 | 318 | 6.8 |
| 3 | 1051.6 | 15.5 | 22 | 62 | 84 | 264 | 4.3 |
| 4 | 1052.4 | 14.4 | 32 | 52 | 84 | 358 | 11. |
| 5 | 1053.5 | 16.0 | 26 | 61 | 87 | 323 | 6.4 |
| 6 | 1054.5 | 15.5 | 45 | 45 | 90 | 541 | 2.8 |
| 7 | 1055.5 | 15.1 | 54 | 26 | 80 | 633 | 13. |
| 8 | 1056.6 | 19.0 | 31 | 47 | 78 | 457 | 14. |
| 9 | 1057.6 | 17.0 | 25 | 61 | 86 | 330 | 13. |
| 10 | 1058.6 | 16.7 | 18 | 55 | 73 | 233 | 13. |
| 11 | 1059.7 | 19.2 | 20 | 56 | 76 | 298 | 28. |
| 12 | 1060.6 | 18.1 | 26 | 52 | 78 | 365 | 18. |
| 13 | 1061.5 | 17.4 | 19 | 68 | 87 | 256 | 21. |
| 14 | 1062.5 | 16.5 | 11 | 70 | 81 | 141 | 5.2 |
| 15 | 1063.5 | 17.3 | 28 | 50 | 78 | 376 | 11. |
| 16 | 1064.4 | 17.8 | 16 | 62 | 78 | 221 | 23. |
| 17 | 1065.4 | 14.0 | 29 | 57 | 86 | 315 | 3.7 |
| 18 | 1066.5 | 15.4 | 20 | 67 | 87 | 239 | 4.9 |
| 19 | 1067.4 | 15.5 | 16 | 71 | 87 | 192 | 2.8 |