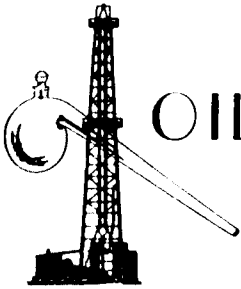


28-22-16E

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# OILFIELD RESEARCH LABORATORIES

P.O. BOX 647 - 536 N. HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

March 8, 1990

Lancer Oil, Inc.  
P. O. Box 34  
Piqua, KS 66761

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Crotts Lease, Well No. 7-W, located in Section 28, T22S, R16E, Coffey County, Kansas.

The core was sampled and sealed in plastic by a representative of the client and submitted to our laboratory on March 1, 1990.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*Alan M. Dunning*  
Alan M. Dunning

AMD:bl

5 c Piqua, KS

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STATE COMMISSION

- REGISTERED ENGINEERS -

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

LOGCompany Lancer Oil, Inc. Lease Crotts Well No. 7-WLOWER SQUIRREL SANDSTONE

| <u>Depth Interval,<br/>Feet</u> | <u>Description</u>                                                   |
|---------------------------------|----------------------------------------------------------------------|
| 1000.0 - 1000.2                 | Shale, gray with scattered brown sandstone partings.                 |
| 1000.2 - 1000.4                 | Sandstone, grayish brown, shaly with scattered shale partings.       |
| 1000.4 - 1001.0                 | Shale, gray with widely scattered shale partings.                    |
| 1001.0 - 1002.4                 | Sandstone, dark brown with scattered shale partings.                 |
| 1002.4 - 1003.7                 | Sandstone, dark brown, slightly shaly with scattered shale partings. |
| 1003.7 - 1007.1                 | Shale and sandstone, gray and brown, laminated.                      |
| 1007.1 - 1007.8                 | Sandstone and shale, brown and gray, laminated.                      |
| 1007.8 - 1008.8                 | Shale, gray.                                                         |

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## Oilfield Research Laboratories

## RESULTS OF SATURATION &amp; PERMEABILITY TESTS

TABLE 1

Company Lancer Oil, Inc. Lease Crotts Well No. 7-W

| Sample No. | Depth, Feet | Porosity Percent | Percent Saturation |       |       | Oil Content Bbls. / A. Ft. | Permeability, Millidarcys |
|------------|-------------|------------------|--------------------|-------|-------|----------------------------|---------------------------|
|            |             |                  | Oil                | Water | Total |                            |                           |
| 1          | 1000.3      | 14.7             | 43                 | 37    | 80    | 490                        | 1.4                       |
| 2          | 1001.5      | 19.3             | 64                 | 25    | 89    | 958                        | 100.                      |
| 3          | 1002.5      | 14.8             | 42                 | 41    | 83    | 482                        | 6.6                       |
| 4          | 1003.5      | 15.8             | 53                 | 45    | 98    | 650                        | 4.4                       |
| 5          | 1004.6      | 12.7             | 36                 | 53    | 89    | 355                        | 0.38                      |
| 6          | 1005.6      | 11.2             | 33                 | 64    | 97    | 287                        | 0.23                      |
| 7          | 1006.4      | 11.8             | 41                 | 53    | 94    | 375                        | 0.40                      |
| 8          | 1007.6      | 10.8             | 40                 | 57    | 97    | 335                        | 0.16                      |

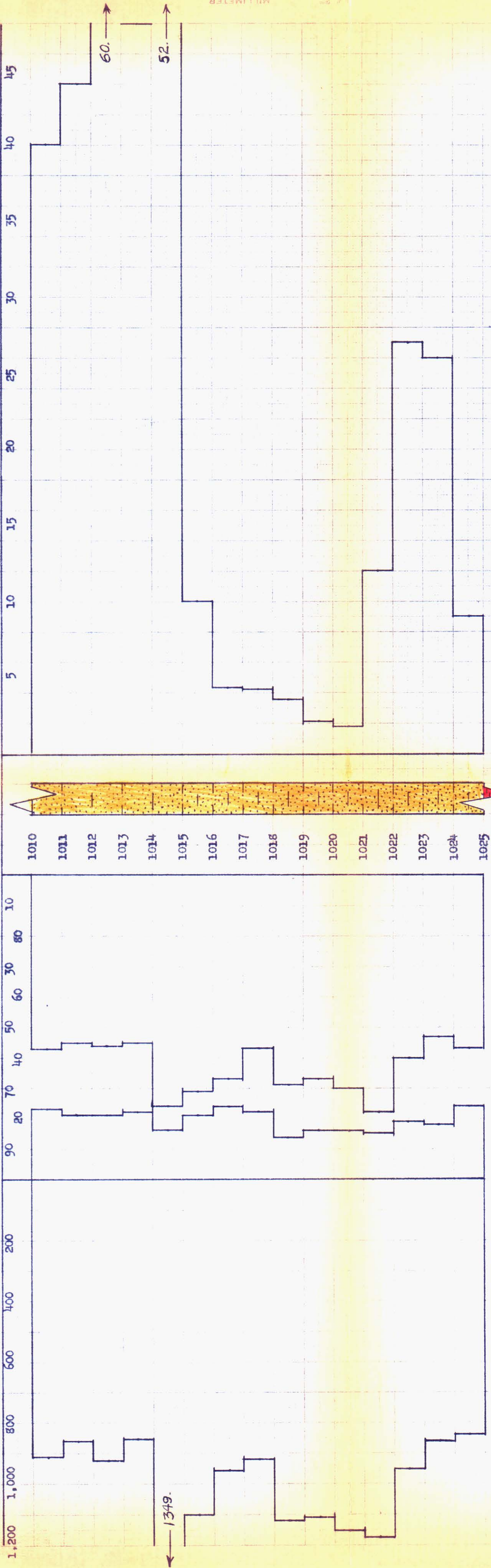
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OIL CONTENT.  
BBL./A. FT.

WATER SAT., PERCENT

← OIL SAT., PERCENT

AIR PERMEABILITY, IN MILLIDARCS



KEY:  
SHALY SANDSTONE

CARBONACEOUS SHALY SANDSTONE

SHALE

BMG, INC.

BEAVER LEASE WELL NO. 2  
COFFEY COUNTY, KANSAS

OILFIELD RESEARCH LABORATORIES  
GEAUTE, KANSAS  
FEBRUARY, 1976.