



# OILFIELD RESEARCH LABORATORIES

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

June 25, 1990

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

API 15-205-25754

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Glades Lease, Well No. 20-W, located in Section 28, T22S, R16E, Coffey County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on June 20, 1990.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*Alan M. Dunning*  
Alan M. Dunning

AMD:bl

5 c Piqua, KS

9-24-16E

20-W

Glades

COPY

LOGCompany Lancer Oil, Inc. Lease Glades Well No. 20-WLOWER SQUIRREL SANDSTONE

| <u>Depth Interval,<br/>Feet</u> | <u>Description</u>                                                                                |
|---------------------------------|---------------------------------------------------------------------------------------------------|
| 1024.0 - 1025.1                 | Shale, gray with widely scattered brown sandstone inclusions.                                     |
| 1025.1 - 1025.4                 | Shale, gray.                                                                                      |
| 1025.4 - 1026.5                 | Shale, gray with widely scattered brown sandstone inclusions.                                     |
| 1026.5 - 1026.9                 | Sandstone, brown.                                                                                 |
| 1026.9 - 1027.1                 | Shale, gray with scattered brown sandstone partings.                                              |
| 1027.1 - 1028.2                 | Sandstone, brown.                                                                                 |
| 1028.2 - 1030.0                 | Sandstone, brown with very widely scattered shale and mica inclusions.                            |
| 1030.0 - 1030.7                 | Sandstone, grayish brown, very shaly with scattered shale and mica partings.                      |
| 1030.7 - 1032.0                 | Sandstone, dark brown with widely scattered shale and mica partings.                              |
| 1032.0 - 1033.0                 | Sandstone, dark brown.                                                                            |
| 1033.0 - 1034.7                 | Sandstone, grayish brown, very shaly, slightly calcareous with scattered shale and mica partings. |
| 1034.7 - 1035.1                 | Shale, gray with widely scattered brown sandstone inclusions.                                     |
| 1035.1 - 1036.0                 | Shale, gray.                                                                                      |

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

**TABLE 1**

Company Lancer Oil, Inc. Lease Glades Well No. 20-W

| Sample No. | Depth, Feet | Porosity Percent | Percent Saturation |       |       | Oil Content Bbls. / A. Ft. | Permeability, Millidarcys |
|------------|-------------|------------------|--------------------|-------|-------|----------------------------|---------------------------|
|            |             |                  | Oil                | Water | Total |                            |                           |
| 1          | 1026.7      | 19.8             | 34                 | 27    | 61    | 522                        | 31.                       |
| 2          | 1027.5      | 19.9             | 39                 | 29    | 68    | 602                        | 58.                       |
| 3          | 1028.5      | 19.4             | 47                 | 30    | 77    | 707                        | 45.                       |
| 4          | 1029.5      | 19.6             | 43                 | 27    | 70    | 654                        | 39.                       |
| 5          | 1030.6      | 13.6             | 27                 | 65    | 92    | 285                        | 0.13                      |
| 6          | 1031.6      | 16.7             | 62                 | 27    | 89    | 803                        | 14.                       |
| 7          | 1032.5      | 19.5             | 51                 | 22    | 73    | 772                        | 38.                       |
| 8          | 1033.4      | 15.7             | 32                 | 45    | 77    | 390                        | 1.7                       |
| 9          | 1034.4      | 14.9             | 48                 | 44    | 92    | 555                        | 0.52                      |

API: 15-207- 25,753

## WELL RECORD

Well No. 17W Farm Glades Producer Lancer Oil Inc.

Location 2145FSL 2805fel NENESW Sec. 9 Twp. 24 Rg. 16 **E**

Elevation State Kansas County Woodson

Kind (Oil, Gas, Water, Dry Hole) Contractor Fleming Drilling Inc.

Producing formation Top Bottom

Shot with qts. from to

Packer Set at Kind Size

Liner from to Perforated from to

## LOG

| Thick-<br>ness | Strata             | Depth | Thick-<br>ness | Strata       | Depth |
|----------------|--------------------|-------|----------------|--------------|-------|
| 2              | top soil           | 2     | 2              | shale        | 981   |
| 20             | clay and sandstone | 22    |                | Drilled:     |       |
| 20             | shale, surface     | 42    | 30             | shale        | 1011  |
| 120            | shale              | 162   | 1              | lime         | 1012  |
| 100            | lime               | 262   |                | Cored:       |       |
| 175            | lime               | 437   | 2              | shale        | 1014  |
| 59             | shale              | 496   | 1              | lime         | 1015  |
| 66             | lime               | 562   | 5              | lam oil sand | 1020  |
| 67             | lime               | 629   | 9              | oil sand     | 1029  |
| 60             | shale              | 789   | 2              | sand, shaldy | 1031  |
| 26             | lime & shale       | 815   |                | Drilled:     |       |
| 9              | lime               | 824   | 49             | shale        | 1080  |
| 57             | shale              | 881   |                |              |       |
| 2              | lime, 40'          | 883   |                |              |       |
| 5              | shale              | 888   |                |              |       |
| 4              | lime               | 892   |                |              |       |
| 7              | shale              | 899   |                |              |       |
| 10             | lime & shale       | 909   |                |              |       |
| 3              | lime               | 912   |                |              |       |
| 3              | shale              | 915   |                |              |       |
| 4              | lime               | 919   |                |              |       |
| 3              | shale              | 922   |                |              |       |
| 8              | shale              | 930   |                |              |       |
| 17             | lime, 20'          | 947   |                |              |       |
| 4              | shale              | 951   |                |              |       |
| 5              | lime, 5'           | 956   |                |              |       |
| 10             | shale              | 966   |                |              |       |
| 1.5            | shale, core        | 967.5 |                |              |       |
| 1.5            | lam oil sand       | 969   |                |              |       |
| 10             | oil sand           | 979   |                |              |       |

Total Depth 1080'

Open Hole 42' of 7" pipe set with 8

Casing sacks cement at

Casing at

Casing at

Cement Ran 1073 of 2 7/8" pipe with

Tubing floatshoe on bottom. SN# 1011'

Rods Cent# 1st., 3rd, 5th and 8th jt.

## Additional Information

Started 8/21/90

Completed 8/28/90

Date Completed

O. K.

Superintendent

COPY

WELL NO. 17W

STATE Kansas

DRILL PIPE

LENGTH STROKE

core No# 2

[illegible]