



# OILFIELD RESEARCH LABORATORIES

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

July 16, 1980

Triangle Petroleum Company, Inc.  
Box 1047  
Independence, Kansas 67301

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Edds Lease, Well No. 8, Montgomery County, Kansas, and submitted to our laboratory on June 20, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

  
Sanford A. Michel

SAM/kas

20 c to Independence, Kansas

- REGISTERED ENGINEERS -

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

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Triangle Petroleum Company, Inc. Lease Edds Well No. 8

Location -

Section 27 Twp. 33<sup>33</sup>34S Rge. 14<sup>14</sup>15E County Montgomery State Kansas

|  |         |
|--|---------|
| Elevation, Feet . . . . .              |         |
| Name of Sand . . . . .                 | Wayside |
| Top of Core . . . . .                  | 695.0   |
| Bottom of Core . . . . .               | 721.0   |
| Top of Sand . . . . .                  | 695.0   |
| Bottom of Sand . . . . .               | 721.0   |
| Total Feet of Permeable Sand . . . . . | 26.0    |

| Distribution of Permeable Sand:<br>Permeability Range<br>Millidarcys | Feet | Cum. Ft. |
|--|------|----------|
| 0 - 4  | 7.7  | 7.7      |
| 4 - 8  | 8.2  | 15.9     |
| 8 - 12   | 2.4  | 18.3     |
| 12 - 14  | 6.2  | 24.5     |
| 14 & Above   | 1.5  | 26.0     |

|  |        |
|--|--------|
| Average Permeability Millidarcys . . . . . | 6.5    |
| Average Percent Porosity . . . . .         | 17.1   |
| Average Percent Oil Saturation . . . . .   | 21.6   |
| Average Percent Water Saturation . . . . . | 54.2   |
| Average Oil Content, Bbls./A. Ft. . . . .  | 288.   |
| Total Oil Content, Bbls./Acre . . . . .    | 7,491. |

LOGName Triangle Petroleum Company, Inc. Lease Edds Well No. 8

| <u>Depth Interval,<br/>Feet</u> | <u>Description</u>                    |
|---------------------------------|---------------------------------------|
| 695.0 - 695.9                   | Light brown shaly sandstone.          |
| 695.9 - 697.2                   | Brown sandstone.                      |
| 697.2 - 697.8                   | Light brown slightly shaly sandstone. |
| 697.8 - 699.1                   | Light brown sandstone.                |
| 699.1 - 702.6                   | Brown shaly sandstone.                |
| 702.6 - 703.7                   | Brown sandstone.                      |
| 703.7 - 709.2                   | Brown very shaly sandstone.           |
| 709.2 - 709.9                   | Brown shaly sandstone.                |
| 709.9 - 711.9                   | Brown very shaly sandstone.           |
| 711.9 - 713.2                   | Brown sandstone.                      |
| 713.2 - 714.0                   | Light brown slightly shaly sandstone. |
| 714.0 - 714.7                   | Brown shaly sandstone.                |
| 714.7 - 718.3                   | Light brown sandstone.                |
| 718.3 - 721.0                   | Grayish brown shaly sandstone.        |

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Triangle Petroleum Company, Inc. Lease Edds

Well No. 8

| Sample No. | Depth, Feet | Effective Porosity Percent | Percent Saturation |       | Oil Content Bbbs. / A Ft. | Perm., Mill. | Feet of Sand |          | Total Oil Content | Perm. Capacity Ft. X md. |
|------------|-------------|----------------------------|--------------------|-------|---------------------------|--------------|--------------|----------|-------------------|--------------------------|
|            |             |                            | Oil                | Water |                           |              | Ft.          | Cum. Ft. |                   |                          |
| 1          | 695.5       | 15.8                       | 15                 | 60    | 184                       | 4.3          | 0.9          | 0.9      | 166               | 3.87                     |
| 2          | 696.5       | 19.1                       | 21                 | 55    | 311                       | 13.9         | 1.3          | 2.2      | 404               | 16.90                    |
| 3          | 697.5       | 9.7                        | 17                 | 77    | 128                       | 9.9          | 0.6          | 2.8      | 77                | 5.94                     |
| 4          | 698.5       | 14.1                       | 17                 | 63    | 186                       | 12.          | 1.3          | 4.1      | 242               | 15.60                    |
| 5          | 699.5       | 17.5                       | 20                 | 53    | 272                       | 0.24         | 1.0          | 5.1      | 272               | 0.24                     |
| 6          | 700.5       | 17.9                       | 18                 | 53    | 250                       | 4.1          | 1.0          | 6.1      | 250               | 4.10                     |
| 7          | 701.5       | 19.3                       | 22                 | 45    | 329                       | 6.1          | 1.0          | 7.1      | 329               | 6.10                     |
| 8          | 702.5       | 17.5                       | 18                 | 55    | 244                       | 8.5          | 0.5          | 7.6      | 122               | 4.25                     |
| 9          | 703.5       | 15.6                       | 22                 | 58    | 266                       | 5.8          | 1.1          | 8.7      | 293               | 6.38                     |
| 10         | 704.5       | 18.3                       | 15                 | 53    | 213                       | 19.7         | 1.5          | 10.2     | 320               | 9.50                     |
| 11         | 705.5       | 15.2                       | 35                 | 50    | 413                       | 1.7          | 1.0          | 11.2     | 413               | 1.70                     |
| 12         | 706.5       | 16.7                       | 40                 | 45    | 518                       | 1.6          | 1.0          | 12.2     | 518               | 1.60                     |
| 13         | 707.3       | 16.0                       | 28                 | 58    | 348                       | 4.3          | 1.0          | 13.2     | 348               | 4.30                     |
| 14         | 708.5       | 16.2                       | 41                 | 48    | 515                       | 3.4          | 1.0          | 14.2     | 515               | 3.40                     |
| 15         | 709.5       | 17.3                       | 30                 | 47    | 403                       | 6.0          | 0.7          | 14.9     | 282               | 4.20                     |
| 16         | 710.3       | 18.1                       | 30                 | 46    | 421                       | 0.88         | 1.0          | 15.9     | 421               | 0.88                     |
| 17         | 711.7       | 20.6                       | 38                 | 40    | 607                       | 1.4          | 1.0          | 16.9     | 607               | 1.40                     |
| 18         | 712.4       | 17.5                       | 22                 | 46    | 299                       | 11.8         | 1.3          | 18.2     | 389               | 14.30                    |
| 19         | 713.8       | 19.9                       | 9                  | 58    | 139                       | 7.8          | 0.8          | 19.0     | 111               | 6.24                     |
| 20         | 714.6       | 18.5                       | 27                 | 47    | 388                       | 3.8          | 0.7          | 19.7     | 272               | 2.66                     |
| 21         | 715.5       | 17.6                       | 16                 | 53    | 219                       | 13.          | 1.0          | 20.7     | 219               | 13.00                    |
| 22         | 716.5       | 19.4                       | 17                 | 49    | 256                       | 13.          | 1.0          | 21.7     | 256               | 13.00                    |
| 23         | 717.5       | 17.7                       | 18                 | 55    | 247                       | 13.          | 1.6          | 23.3     | 395               | 20.80                    |
| 24         | 718.5       | 17.9                       | 7                  | 57    | 97                        | 0.87         | 1.0          | 24.3     | 97                | 0.87                     |
| 25         | 719.5       | 13.2                       | 10                 | 75    | 102                       | 4.3          | 1.7          | 26.0     | 173               | 7.31                     |

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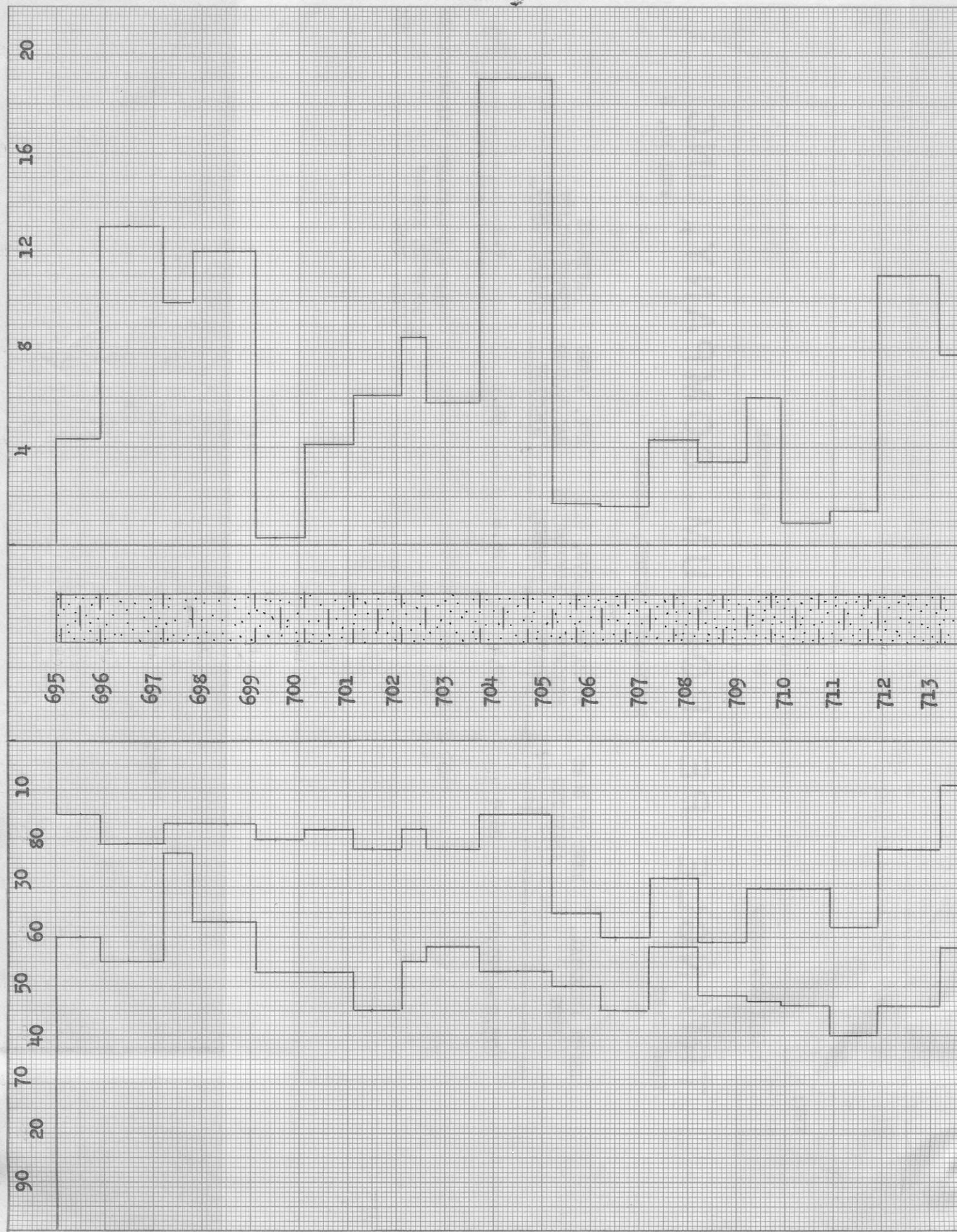
## SUMMARY OF PERMEABILITY & SATURATION TESTS

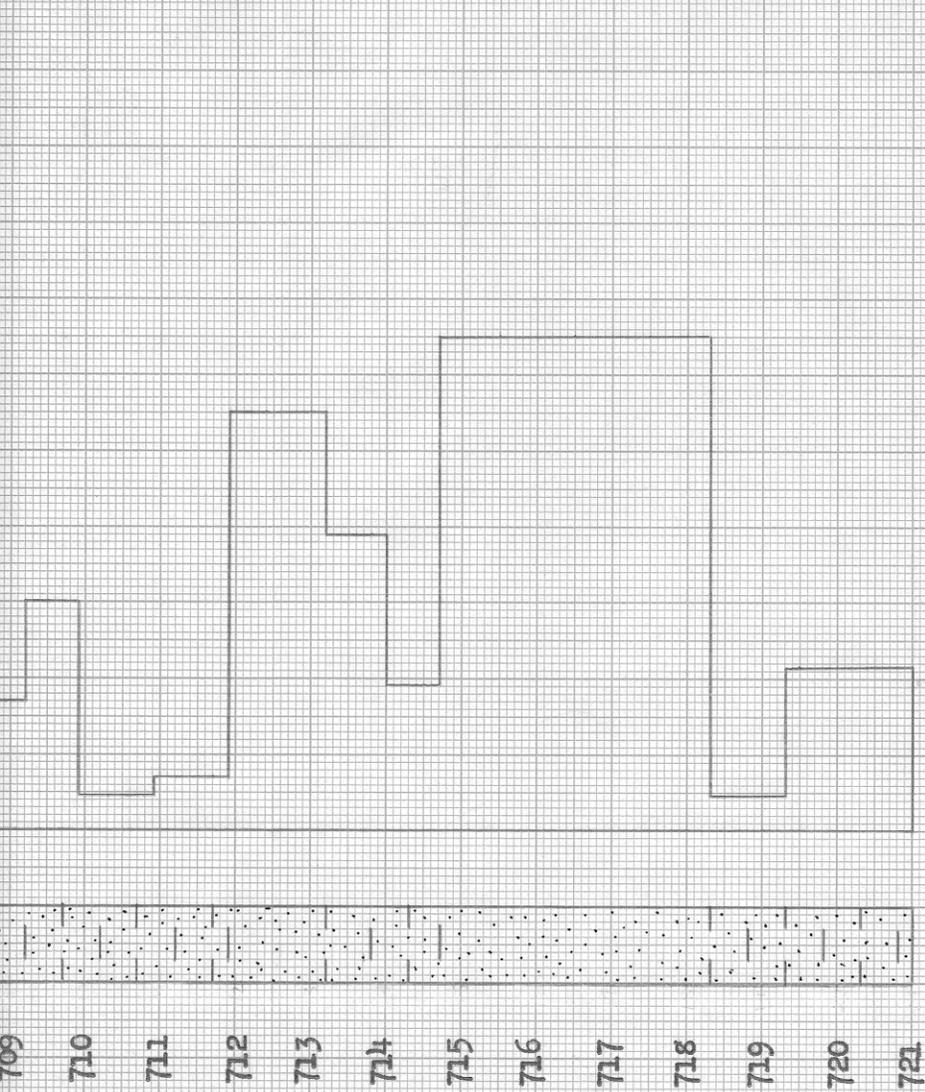
TABLE III

| Company                 |                          | Lease                                   | Edds                                  | Well No.                              | 8                                  |
|-------------------------|--------------------------|---|---------------------------------------|---------------------------------------|------------------------------------|
| Depth Interval,<br>Feet | Feet of Core<br>Analyzed | Average<br>Permeability,<br>Millidarcys | Permeability<br>Capacity<br>Ft. x Md. | Average<br>Oil Content<br>Bbl./A. Ft. | Total Oil<br>Content<br>Bbls./Acre |
| 695.0 - 721.0           | 26.0                     | 6.5                                     | 168.54                                | 54.2                                  | 288                                |
| 695.0 - 721.0           | 26.0                     | 17.1                                    | 21.6                                  | 54.2                                  | 7,491                              |

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WATER SAT., PERCENT → PERMEABILITY, MIN MILLIDARCY ←





KEY:



SHALY SANDSTONE



SANDSTONE

# TRIANGLE PETROLEUM COMPANY, INC.

EDDS LEASE WELL NO. 8

MONTGOMERY COUNTY, KANSAS

| DEPTH INTERVAL,<br>FEET | FEET OF CORE<br>ANALYZED | AVERAGE             |         | AVG. OIL              |         | AVG. WATER            |                               | AVERAGE |  |
|-------------------------|--------------------------|---------------------|---------|-----------------------|---------|-----------------------|-------------------------------|---------|--|
|                         |                          | PERCENT<br>POROSITY | PERCENT | SATURATION<br>PERCENT | PERCENT | SATURATION<br>PERCENT | PERMEABILITY,<br>MILLIDARCOYS |         |  |
| 695.0 - 721.0           | 26.0                     | 17.1                | 21.6    | 54.2                  | 6.5     |                       |                               |         |  |