



# OILFIELD RESEARCH LABORATORIES

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

July 19, 1982

Big E Drilling  
R. R. # 1  
Centerville, Kansas 66014

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Epps Lease, Well No. 6, located in the Southwest  $\frac{1}{4}$ , of Section 9, T-24S, R-25E, of Bourbon County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on July 16, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/dlb

5 c to Centerville, Kansas

LOGName Big E Drilling Lease Epps Well No. 6

| <u>Depth Interval,<br/>Feet</u> | <u>Description</u>                                                                |
|---------------------------------|-----------------------------------------------------------------------------------|
| 295.0 - 298.0                   | Alternate layers gray shale and light brown sandstone (ground up).                |
| 298.0 - 299.0                   | Light brown slightly calcareous very shaly sandstone.                             |
| 299.0 - 300.0                   | Light brown slightly calcareous shaly sandstone.                                  |
| 300.0 - 302.2                   | Light brown slightly shaly sandstone slightly calcareous.                         |
| 302.2 - 303.5                   | Grayish brown slightly calcareous very shaly sandstone (ground up).               |
| 303.5 - 304.7                   | Light brown slightly calcareous slightly shaly sandstone.                         |
| 304.7 - 307.3                   | Light brown slightly calcareous sandstone.                                        |
| 307.3 - 307.8                   | Light brown slightly calcareous sandstone with gray shale and micaceous partings. |
| 307.8 - 310.0                   | Light brown slightly calcareous sandstone.                                        |
| 310.0 - 310.7                   | Light brown slightly calcareous shaly sandstone.                                  |
| 310.7 - 314.2                   | Light brown slightly calcareous sandstone.                                        |
| 314.2 - 315.0                   | Light brown slightly calcareous slightly shaly sandstone.                         |
| 315.0 - 319.6                   | Light brown slightly calcareous sandstone.                                        |
| 319.6 - 319.9                   | Grayish brown very shaly sandstone.                                               |
| 319.9 - 321.0                   | Brown slightly calcareous sandstone.                                              |
| 321.0 - 324.0                   | Light brown slightly calcareous sandstone.                                        |
| 324.0 - 325.7                   | Light brown slightly calcareous sandstone with scattered gray shale partings.     |
| 325.7 - 330.5                   | Light brown slightly calcareous sandstone.                                        |
| 330.5 - 332.0                   | Grayish black slightly calcareous slightly shaly sandstone.                       |
| 332.0 - 333.8                   | Grayish black slightly calcareous shaly sandstone.                                |

continued .

# OILFIELD RESEARCH LABORATORIES

## LOG

Name Big E Drilling Lease Epps Well No. 6

| <u>Depth Interval,<br/>Feet</u> | <u>Description</u> |
|---------------------------------|--------------------|
|---------------------------------|--------------------|

|               |       |
|---------------|-------|
| 333.8 - 334.8 | Coal. |
|---------------|-------|

|               |             |
|---------------|-------------|
| 334.8 - 335.0 | Gray shale. |
|---------------|-------------|

# Oilfield Research Laboratories

## RESULTS OF SATURATION & PERMEABILITY TESTS

### TABLE 1

Company Big E Drilling Lease Epps Well No. 6

| Sample No. | Depth, Feet | Porosity Percent | Percent Saturation |       |       | Oil Content Bbla. / A Ft. | Perm., Mill. |
|------------|-------------|------------------|--------------------|-------|-------|---------------------------|--------------|
|            |             |                  | Oil                | Water | Total |                           |              |
| 1          | 296.4       | 17.1             | 2                  | 92    | 94    | 27                        | Imp.         |
| 2          | 297.4       | 17.5             | 5                  | 79    | 84    | 68                        | 0.22         |
| 3          | 298.4       | 17.6             | 13                 | 67    | 80    | 178                       | 0.43         |
| 4          | 299.2       | 17.4             | 16                 | 62    | 78    | 216                       | 1.1          |
| 5          | 300.5       | 17.9             | 4                  | 63    | 67    | 56                        | 6.3          |
| 6          | 301.6       | 18.5             | 6                  | 61    | 67    | 86                        | 8.3          |
| 7          | 303.8       | 19.3             | 2                  | 71    | 73    | 30                        | 8.9          |
| 8          | 304.5       | 17.6             | 12                 | 70    | 82    | 164                       | 7.2          |
| 9          | 305.5       | 18.4             | 17                 | 73    | 90    | 243                       | 25.          |
| 10         | 306.5       | 19.3             | 11                 | 59    | 70    | 165                       | 54.          |
| 11         | 307.5       | 19.9             | 21                 | 57    | 78    | 324                       | 6.1          |
| 12         | 308.5       | 20.2             | 22                 | 49    | 71    | 345                       | 15.          |
| 13         | 309.5       | 20.4             | 28                 | 46    | 74    | 443                       | 12.          |
| 14         | 310.6       | 19.3             | 11                 | 63    | 74    | 165                       | 2.8          |
| 15         | 311.6       | 20.3             | 14                 | 65    | 79    | 221                       | 17.          |
| 16         | 312.4       | 21.5             | 24                 | 54    | 78    | 400                       | 13.          |
| 17         | 313.5       | 18.9             | 23                 | 47    | 70    | 337                       | 12.          |
| 18         | 314.6       | 19.6             | 32                 | 49    | 81    | 487                       | 8.7          |
| 19         | 315.5       | 21.2             | 24                 | 45    | 69    | 395                       | 18.          |
| 20         | 316.5       | 21.0             | 36                 | 39    | 75    | 587                       | 44.          |
| 21         | 317.5       | 19.8             | 30                 | 46    | 76    | 461                       | 43.          |
| 22         | 318.5       | 20.8             | 21                 | 42    | 63    | 339                       | 44.          |
| 23         | 319.4       | 20.2             | 32                 | 38    | 70    | 502                       | 15.          |
| 24         | 320.5       | 21.4             | 33                 | 37    | 70    | 548                       | 153.         |
| 25         | 321.6       | 21.6             | 25                 | 49    | 74    | 419                       | 203.         |
| 26         | 322.5       | 21.6             | 13                 | 55    | 68    | 218                       | 127.         |
| 27         | 323.5       | 22.3             | 20                 | 47    | 67    | 346                       | 153.         |
| 28         | 324.4       | 20.7             | 23                 | 46    | 69    | 369                       | 108.         |
| 29         | 325.6       | 22.8             | 22                 | 43    | 65    | 389                       | 89.          |
| 30         | 326.4       | 21.0             | 21                 | 41    | 62    | 342                       | 127.         |
| 31         | 327.5       | 21.9             | 17                 | 45    | 62    | 289                       | 62.          |
| 32         | 328.6       | 20.2             | 24                 | 47    | 71    | 376                       | 52.          |
| 33         | 329.5       | 21.9             | 23                 | 42    | 65    | 391                       | 39.          |
| 34         | 330.4       | 20.1             | 26                 | 42    | 68    | 405                       | 28.          |
| 35         | 331.5       | 20.8             | 15                 | 43    | 58    | 242                       | 6.0          |
| 36         | 332.7       | 19.6             | 13                 | 42    | 55    | 198                       | 2.4          |
| 37         | 333.6       | 19.4             | 27                 | 35    | 62    | 406                       | 2.2          |