

OILFIELD RESEARCH LABORATORIES

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

March 3, 1981

H & W Oil
1109 South Allen
Chanute, Kansas 66720

Gentlemen:

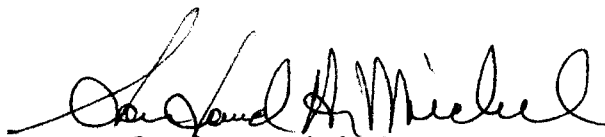
Attached hereto are the results of tests run on the rotary core taken from the Bannion Lease, Well No. 1, located in the Southeast $\frac{1}{4}$ in Section 1, T-27S, R-19E, in Neosho County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on February 25, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/kas

5 c to Chanute, Kansas

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LOGName H & W Oil Lease Bannion Well No. 1

| <u>Depth Interval, Feet</u> | <u>Description</u> |
|---------------------------------|---|
| | <u>TUCKER SAND</u> |
| 802.0 - 808.3 | Grayish light brown conglomeratic shaly sandstone. |
| 808.3 - 809.0 | Light brown sandstone. |
| 809.0 - 810.3 | Light brown and gray laminated sandstone and shale. |
| 810.3 - 812.8 | Light brown sandstone. |
| 812.8 - 819.4 | Brown sandstone. |
| 819.4 - 820.2 | Brown and gray laminated sandstone and shale. |
| 820.2 - 826.3 | Brown sandstone. |
| 826.3 - 827.3 | Light brown shaly sandstone. |

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company H & W Oil Lease Bannion Well No. 1

| Sample No. | Depth, Feet | Porosity Percent | Percent Saturation | | | Oil Content Bbls. / A Ft. | Perm., Mill. |
|------------|-------------|------------------|--------------------|-------|-------|---------------------------|--------------|
| | | | Oil | Water | Total | | |
| 1 | 802.5 | 19.2 | 11 | 44 | 55 | 164 | 13.0 |
| 2 | 803.6 | 17.7 | 10 | 64 | 74 | 137 | 4.3 |
| 3 | 804.5 | 17.6 | 20 | 73 | 93 | 273 | 8.9 |
| 4 | 805.6 | 9.4 | 28 | 70 | 98 | 204 | Imp. |
| 5 | 806.7 | 10.1 | 30 | 60 | 90 | 235 | 0.38 |
| 6 | 807.6 | 7.5 | 31 | 61 | 92 | 180 | Imp. |
| 7 | 808.6 | 20.1 | 13 | 51 | 64 | 203 | 68. |
| 8 | 809.6 | 17.4 | 28 | 52 | 80 | 378 | 0.76 |
| 9 | 810.7 | 21.5 | 14 | 51 | 65 | 234 | 130. |
| 10 | 811.6 | 19.2 | 23 | 46 | 69 | 343 | 41. |
| 11 | 812.6 | 21.1 | 37 | 36 | 73 | 606 | 94. |
| 12 | 813.5 | 20.3 | 27 | 37 | 64 | 425 | 108. |
| 13 | 814.5 | 22.1 | 35 | 25 | 60 | 600 | 94. |
| 14 | 815.4 | 24.3 | 37 | 26 | 63 | 698 | 314. |
| 15 | 816.5 | 22.8 | 42 | 27 | 69 | 743 | 54. |
| 16 | 817.5 | 23.2 | 40 | 27 | 67 | 720 | 149. |
| 17 | 818.5 | 20.1 | 48 | 29 | 77 | 749 | 43. |
| 18 | 819.6 | 15.6 | 42 | 53 | 95 | 508 | 1.2 |
| 19 | 820.4 | 18.6 | 49 | 36 | 85 | 707 | 14. |
| 20 | 821.5 | 21.7 | 37 | 29 | 66 | 623 | 113. |
| 21 | 822.5 | 21.6 | 34 | 32 | 66 | 570 | 101. |
| 22 | 823.5 | 21.7 | 39 | 26 | 65 | 657 | 94. |
| 23 | 824.5 | 18.5 | 40 | 39 | 79 | 574 | 19. |
| 24 | 825.5 | 19.6 | 34 | 41 | 75 | 517 | 29. |
| 25 | 826.6 | 12.3 | 34 | 57 | 91 | 324 | 2.7 |