

**EARLOUGH ENGINEERING**  
**CORE SUMMARY**

Company Kewanee Oil Company Lease Daniels Well No. 108

Location 1715 feet west, 550 feet south of northeast corner

Section 4 Twp. 21-S Rge. 21-E County Anderson State Kansas

Formation Cored Bartlesville Sand Type Core No. 6 Baker Barrel

Date Cored 12-8-47 Date Shot \_\_\_\_\_ Date Completed \_\_\_\_\_

**Depths:**

|                             |           |
|-----------------------------|-----------|
| Started coring, sandy shale | 603.5 ft. |
| Top of oil sand             | 615.1 "   |
| Bottom of oil sand          | 639.8 "   |
| Net feet of oil sand        | 16.6 "    |
| Bottom of core, shale, SIM  | 643.4 "   |
| Total cored                 | 39.9 "    |
| Feet analyzed               | 26.0 "    |

**Shot Record:**

Set Packer 619.0 Feet

Plug back to 640.0 ft.

| Depth, Feet |      | Feet | Shell<br>Diameter | Quarts<br>Per Foot | Quarts<br>Total |
|-------------|------|------|-------------------|--------------------|-----------------|
| From        | To   |      |                   |                    |                 |
| 622.        | 639. | 17.  | 4-1/2"            | 3.2                | 54.4            |

**Completion Data:**

Hrs. well stood after coring \_\_\_\_\_; Feet Fluid in Hole \_\_\_\_\_ (Oil \_\_\_\_\_ Water \_\_\_\_\_)

Clean-out time, hrs. \_\_\_\_\_; Initial production, bbls. day \_\_\_\_\_ (Oil \_\_\_\_\_ Water \_\_\_\_\_)

**Remarks:**

Net feet of sand is 16.6 feet which is summarized in two sections on the basis of oil saturation. The top 6.1 net feet between depths 615.1 and 624.6 feet is broken sand and shale with relatively low oil saturation. The bottom 10.5 net feet between depths 626.4 and 639.8 feet is rich, brown oil sand and relatively free of shale.

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PERMEABILITY Average permeability is 12 millidarcys and values range from 0.5 to 36 millidarcys. Permeability capacity is 206 foot millidarcys. The top 6.1 net feet of sand has an average permeability of 6.7 millidarcys and the bottom 10.5 net feet 16 millidarcys.

POROSITY Average porosity is 19.3 percent. The top 6.1 net feet averages 17.9 percent and the bottom 10.5 feet 20.1 percent.

PERCENT SATURATION The average oil saturation of the top 5.5 feet is 28 percent and average core water saturation 51 percent. The bottom 10.5 net feet of sand has an average oil saturation of 46 percent and average core water saturation 43 percent. The lower oil saturation in the top section may be due to the shaly nature of the sand. Over-all average oil saturation is 40 percent.

OIL CONTENT Average oil content of the upper 6.1 net feet of sand is 395 barrels per acre foot, and of the bottom 10.5 net feet 712 barrels per acre foot. Over-all average oil content is 596 barrels per acre foot.

LABORATORY FLOODING TESTS Laboratory flooding tests yielded an average oil recovery of 70 barrels per acre foot from the top 6.1 net feet of sand, and 378 barrels per acre foot from the bottom 10.5 net feet. Average residual oil saturation in the upper section was 17 percent, and in the lower section 23 percent.

#### CONCLUSIONS

1. Net feet of sand is 16.6 feet, of which the bottom 10.5 net feet represents the main oil pay section.

2. This well is located near the west edge of the sand stringer and the core indicates that the upper part of the sand is shaling out in this area.
3. Oil saturation is relatively low in the upper 6.1 net feet of sand; however, it was recommended it be left open in the hole in view of the fact that this zone carries better oil saturation in wells to the east.
4. Estimated oil recovery by water flooding is 314 barrels per acre foot, or 3,300 barrels per acre, based on only the lower 10.5 net feet of sand. An additional recovery of approximately 500 barrels per acre may be obtained from the upper 6.1 net feet of sand from the area of which this core is representative.

Respectfully submitted

EARLOUGHER ENGINEERING



J. M. Robinson, Engineer

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# EARLOUGH ENGINEERING

## RESULTS OF SATURATION TESTS

COMPANY Kewanee Oil Company

WELL Daniels No. 108

| Sat.<br>No. | Depth<br>Feet | Porosity<br>Per Cent | PER CENT SAT. |       |       | Avg. Oil<br>Content<br>Bbls./A. Ft. | FT. OF SAND |      | Total Oil<br>Content<br>Bbls./Acre |
|-------------|---------------|----------------------|---------------|-------|-------|-------------------------------------|-------------|------|------------------------------------|
|             |               |                      | Oil           | Water | Total |                                     | Ft.         | Cum. |                                    |
| 1           | 607.6         | 12.2                 | 23.           | 77.   | 100.  | 220.                                | 1.0*        |      |                                    |
| A           | 608.6         | 10.6                 | 35.           | 65.   | 100.  | 290.                                | 1.3*        |      |                                    |
| B           | 610.3         | 13.6                 | 18.           | 67.   | 85.   | 190.                                | 2.5*        |      |                                    |
| C           | 612.9         | 20.8                 | 24.           | 34.   | 58.   | 380.                                | 1.5*        |      |                                    |
| 2           | 614.4         | 14.4                 | 40.           | 60.   | 100.  | 450.                                | 1.8*        |      |                                    |
| 3           | 615.8         | 18.0                 | 24.           | 57.   | 81.   | 330.                                | 1.1         | 1.1  | 360.                               |
| 4           | 617.0         | 23.4                 | 34.           | 39.   | 73.   | 610.                                | 0.7         | 1.8  | 430.                               |
| 5           | 617.8         | 21.0                 | 23.           | 43.   | 66.   | 380.                                | 0.4         | 2.2  | 150.                               |
| F- 1        | 620.0         | 18.5                 | 22.           | --    | --    | 310.                                | 0.7         | 2.9  | 220.                               |
| 6           | 620.5         | 13.6                 | 49.           | 51.   | 100.  | 520.                                | 0.4         | 3.3  | 210.                               |
| 7           | 621.4         | 22.4                 | 20.           | 39.   | 59.   | 350.                                | 0.9         | 4.2  | 320.                               |
| 8           | 622.2         | 12.7                 | 37.           | 63.   | 100.  | 360.                                | 0.9         | 5.1  | 320.                               |
| 9           | 624.5         | 14.7                 | 35.           | 65.   | 100.  | 400.                                | 1.0         | 6.1  | 400.                               |
| 10          | 626.1         | 12.0                 | 26.           | 74.   | 100.  | 240.                                | 0.9*        |      |                                    |
| 11          | 627.7         | 21.8                 | 36.           | 36.   | 72.   | 610.                                | 1.6         | 7.7  | 980.                               |
| 12          | 628.6         | 21.9                 | 32.           | 46.   | 78.   | 550.                                | 0.7         | 8.4  | 390.                               |
| 13          | 629.8         | 21.1                 | 46.           | 38.   | 84.   | 760.                                | 1.2         | 9.6  | 910.                               |
| 14          | 631.3         | 17.8                 | 48.           | 50.   | 98.   | 660.                                | 1.5         | 11.1 | 990.                               |
| 15          | 632.5         | 17.6                 | 52.           | 48.   | 100   | 710.                                | 0.8         | 11.9 | 570.                               |
| 16          | 636.1         | 22.2                 | 49.           | 41.   | 90.   | 840.                                | 1.7         | 13.6 | 1,430.                             |
| 17          | 637.6         | 19.7                 | 54.           | 38.   | 92.   | 820.                                | 1.1         | 14.7 | 900.                               |
| 18          | 638.2         | 19.7                 | 43.           | 44.   | 87.   | 660.                                | 0.8         | 15.5 | 530.                               |
| F-19        | 639.0         | 18.1                 | 50.           | 44.   | 94.   | 710.                                | 1.1         | 16.6 | 780.                               |
| 20          | 640.0         | 21.4                 | 23.           | 42.   | 65.   | 380.                                | 0.4*        |      |                                    |

\* Not included in cumulative feet of sand.

### SUMMARY

| DEPTH FEET |       | FEET<br>OF SAND | AVG.<br>POROSITY | AVG. OIL<br>SAT. | AVG. WATER<br>SAT. | AVG. OIL CONTENT<br>BBLs./A. FT. | TOTAL OIL CONTENT<br>BBLs./ACRE |
|------------|-------|-----------------|------------------|------------------|--------------------|----------------------------------|---------------------------------|
| FROM       | TO    |                 |                  |                  |                    |                                  |                                 |
| 615.1      | 624.6 | 6.1             | 17.9             | 28.              | 51.                | 395.                             | 2,410.                          |
| 626.4      | 639.8 | 10.5            | 20.1             | 46.              | 43.                | 712.                             | 7,480.                          |
| 615.1      | 639.8 | 16.6            | 19.3             | 40.              | 46.                | 596.                             | 9,890.                          |

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# EARLOUGHER ENGINEERING

## RESULTS OF PERMEABILITY TESTS

COMPANY **Kewanee Oil Company**

WELL

**Daniels No. 108**

| Sample No. | Depth Feet | Permeability Millidarcys | FEET OF SAND |          | Capacity Ft. X Md. | Sample No. | Depth Feet | Permeability Millidarcys | FEET OF SAND |          | Capacity Ft. X Md. |
|------------|------------|--------------------------|--------------|----------|--------------------|------------|------------|--------------------------|--------------|----------|--------------------|
|            |            |                          | Ft.          | Cum. Ft. |                    |            |            |                          | Ft.          | Cum. Ft. |                    |
| 1          | 603.6      | 0.4                      | 1.0*         |          |                    | 36         | 628.3      | 0.5                      | 0.3*         |          |                    |
| 2          | 607.0      | -0-                      | 0.3*         |          |                    | 37         | 629.1      | 19.                      | 0.7          | 8.4      | 13.                |
| 3          | 607.5      | -0-                      | 0.4*         |          |                    | 38         | 630.1      | 11.                      | 1.2          | 9.6      | 13.                |
| 4          | 607.8      | -0-                      | 0.3*         |          |                    | 39         | 630.6      | 33.                      | 1.1          | 10.7     | 36.                |
| 5          | 608.4      | -0-                      | 0.7*         |          |                    | 40         | 630.7      | 8.3                      | 0.4          | 11.1     | 3.3                |
| 6          | 608.9      | -0-                      | 0.6*         |          |                    | 41         | 632.2      | 0.7                      | 0.8          | 11.9     | 0.6                |
| 7          | 609.5      | -0-                      | 0.6*         |          |                    | 42         | 633.0      | 0.8                      | 1.3*         |          |                    |
| 8          | 610.0      | -0-                      | 0.4*         |          |                    | 43         | 634.2      | 0.8                      | 1.3*         |          |                    |
| 9          | 610.6      | -0-                      | 0.9*         |          |                    | 44         | 635.6      | 24.                      | 0.7          | 12.6     | 17.                |
| 10         | 611.5      | 1.6                      | 0.6*         |          |                    | 45         | 636.0      | 18.                      | 0.4          | 13.0     | 7.2                |
| 11         | 612.5      | 6.4                      | 1.5*         |          |                    | 46         | 636.4      | 36.                      | 0.6          | 13.6     | 22.                |
| 12         | 613.4      | 0.5                      | 0.5*         |          |                    | 47         | 637.0      | 16.                      | 0.4          | 14.0     | 6.4                |
| 13         | 614.1      | -0-                      | 0.7*         |          |                    | 48         | 637.4      | 12.                      | 0.7          | 14.7     | 8.4                |
| 14         | 614.9      | 0.2                      | 0.6*         |          |                    | 49         | 638.0      | 13.                      | 0.3          | 15.0     | 3.9                |
| 15         | 615.4      | 18.                      | 0.4          | 0.4      | 7.2                | 50         | 638.5      | 12.                      | 0.5          | 15.5     | 6.0                |
| 16         | 616.0      | 4.7                      | 0.7          | 1.1      | 3.3                | 51         | 638.8      | 6.5                      | 0.3          | 15.8     | 2.0                |
| 17         | 616.7      | -0-                      | 0.3*         |          |                    | 52         | 639.2      | 12.                      | 0.3          | 16.1     | 3.6                |
| 18         | 617.3      | 24.                      | 0.7          | 1.8      | 17.                | 53         | 639.5      | 19.                      | 0.5          | 16.6     | 9.5                |
| 19         | 617.6      | 12.                      | 0.4          | 2.2      | 4.8                | 54         | 639.8      | 19.                      | 0.4*         |          |                    |
| 20         | 618.5      | -0-                      | 1.5*         |          |                    | 55         | 640.3      | 1.2                      | 0.7*         |          |                    |
| 21         | 619.7      | 1.2                      | 0.4          | 2.6      | 0.5                | 56         | 641.1      | Cracked                  | 0.4*         |          |                    |
| 22         | 620.1      | 1.8                      | 0.3          | 2.9      | 0.5                |            |            |                          |              |          |                    |
| 23         | 620.7      | 3.7                      | 0.4          | 3.3      | 1.5                |            |            |                          |              |          |                    |
| 24         | 621.2      | 6.4                      | 0.6          | 3.9      | 3.8                |            |            |                          |              |          |                    |
| 25         | 621.7      | -0-                      | 0.3          | 4.2      | -0-                |            |            |                          |              |          |                    |
| 26         | 622.0      | 0.5                      | 0.9          | 5.1      | 0.5                |            |            |                          |              |          |                    |
| 27         | 623.6      | 2.9                      | 0.6          | 5.7      | 1.7                |            |            |                          |              |          |                    |
| 28         | 624.3      | 0.6                      | 0.4          | 6.1      | 0.2                |            |            |                          |              |          |                    |
| 29         | 624.9      | -0-                      | 0.4*         |          |                    |            |            |                          |              |          |                    |
| 30         | 625.3      | -0-                      | 0.5*         |          |                    |            |            |                          |              |          |                    |
| 31         | 625.7      | 1.2                      | 0.4*         |          |                    |            |            |                          |              |          |                    |
| 32         | 626.3      | -0-                      | 0.5*         |          |                    |            |            |                          |              |          |                    |
| 33         | 626.7      | 0.6                      | 0.2*         |          |                    |            |            |                          |              |          |                    |
| 34         | 627.4      | 9.7                      | 1.1          | 7.2      | 11.                |            |            |                          |              |          |                    |
| 35         | 627.9      | 4.1                      | 0.5          | 7.7      | 2.1                |            |            |                          |              |          |                    |

\* Not included in cumulative feet of sand.

### SUMMARY

| DEPTH FEET |       | FEET OF SAND | AVERAGE PERMEABILITY | CAPACITY FT. X MD. |
|------------|-------|--------------|----------------------|--------------------|
| FROM       | TO    |              |                      |                    |
| 615.1      | 624.6 | 6.1          | 6.7                  | 41.                |
| 626.4      | 639.8 | 10.5         | 16.                  | 165.               |
| 615.1      | 639.8 | 16.6         | 12.                  | 206.               |

COMPANY

| Depth<br>Feet | Sample<br>No. |
|---------------|---------------|
| 603.8         | 1             |
| 604.0         | 2             |
| 604.2         | 3             |
| 604.4         | 4             |
| 604.6         | 5             |
| 604.8         | 6             |
| 605.0         | 7             |
| 605.2         | 8             |
| 605.4         | 9             |
| 605.6         | 10            |
| 605.8         | 11            |
| 606.0         | 12            |
| 606.2         | 13            |
| 606.4         | 14            |
| 606.6         | 15            |
| 606.8         | 16            |
| 607.0         | 17            |
| 607.2         | 18            |
| 607.4         | 19            |
| 607.6         | 20            |
| 607.8         | 21            |
| 608.0         | 22            |
| 608.2         | 23            |
| 608.4         | 24            |
| 608.6         | 25            |
| 608.8         | 26            |
| 609.0         | 27            |
| 609.2         | 28            |
| 609.4         | 29            |
| 609.6         | 30            |
| 609.8         | 31            |
| 610.0         | 32            |
| 610.2         | 33            |
| 610.4         | 34            |
| 610.6         | 35            |
| 610.8         | 36            |
| 611.0         | 37            |
| 611.2         | 38            |
| 611.4         | 39            |
| 611.6         | 40            |
| 611.8         | 41            |
| 612.0         | 42            |
| 612.2         | 43            |
| 612.4         | 44            |
| 612.6         | 45            |
| 612.8         | 46            |
| 613.0         | 47            |
| 613.2         | 48            |
| 613.4         | 49            |
| 613.6         | 50            |
| 613.8         | 51            |
| 614.0         | 52            |
| 614.2         | 53            |
| 614.4         | 54            |
| 614.6         | 55            |
| 614.8         | 56            |
| 615.0         | 57            |
| 615.2         | 58            |
| 615.4         | 59            |
| 615.6         | 60            |
| 615.8         | 61            |
| 616.0         | 62            |
| 616.2         | 63            |
| 616.4         | 64            |
| 616.6         | 65            |
| 616.8         | 66            |
| 617.0         | 67            |
| 617.2         | 68            |
| 617.4         | 69            |
| 617.6         | 70            |
| 617.8         | 71            |
| 618.0         | 72            |
| 618.2         | 73            |
| 618.4         | 74            |
| 618.6         | 75            |
| 618.8         | 76            |
| 619.0         | 77            |
| 619.2         | 78            |
| 619.4         | 79            |
| 619.6         | 80            |
| 619.8         | 81            |
| 620.0         | 82            |
| 620.2         | 83            |
| 620.4         | 84            |
| 620.6         | 85            |
| 620.8         | 86            |
| 621.0         | 87            |
| 621.2         | 88            |
| 621.4         | 89            |
| 621.6         | 90            |
| 621.8         | 91            |
| 622.0         | 92            |
| 622.2         | 93            |
| 622.4         | 94            |
| 622.6         | 95            |
| 622.8         | 96            |
| 623.0         | 97            |
| 623.2         | 98            |
| 623.4         | 99            |
| 623.6         | 100           |
| 623.8         | 101           |
| 624.0         | 102           |
| 624.2         | 103           |
| 624.4         | 104           |
| 624.6         | 105           |
| 624.8         | 106           |
| 625.0         | 107           |
| 625.2         | 108           |
| 625.4         | 109           |
| 625.6         | 110           |
| 625.8         | 111           |
| 626.0         | 112           |
| 626.2         | 113           |
| 626.4         | 114           |
| 626.6         | 115           |
| 626.8         | 116           |
| 627.0         | 117           |
| 627.2         | 118           |
| 627.4         | 119           |
| 627.6         | 120           |
| 627.8         | 121           |
| 628.0         | 122           |
| 628.2         | 123           |
| 628.4         | 124           |
| 628.6         | 125           |
| 628.8         | 126           |
| 629.0         | 127           |
| 629.2         | 128           |
| 629.4         | 129           |
| 629.6         | 130           |
| 629.8         | 131           |
| 630.0         | 132           |
| 630.2         | 133           |
| 630.4         | 134           |
| 630.6         | 135           |
| 630.8         | 136           |
| 631.0         | 137           |
| 631.2         | 138           |
| 631.4         | 139           |
| 631.6         | 140           |
| 631.8         | 141           |
| 632.0         | 142           |
| 632.2         | 143           |
| 632.4         | 144           |
| 632.6         | 145           |
| 632.8         | 146           |
| 633.0         | 147           |
| 633.2         | 148           |
| 633.4         | 149           |
| 633.6         | 150           |
| 633.8         | 151           |
| 634.0         | 152           |
| 634.2         | 153           |
| 634.4         | 154           |
| 634.6         | 155           |
| 634.8         | 156           |
| 635.0         | 157           |
| 635.2         | 158           |
| 635.4         | 159           |
| 635.6         | 160           |
| 635.8         | 161           |
| 636.0         | 162           |
| 636.2         | 163           |
| 636.4         | 164           |
| 636.6         | 165           |
| 636.8         | 166           |
| 637.0         | 167           |
| 637.2         | 168           |
| 637.4         | 169           |
| 637.6         | 170           |
| 637.8         | 171           |
| 638.0         | 172           |
| 638.2         | 173           |
| 638.4         | 174           |
| 638.6         | 175           |
| 638.8         | 176           |
| 639.0         | 177           |
| 639.2         | 178           |
| 639.4         | 179           |
| 639.6         | 180           |
| 639.8         | 181           |
| 640.0         | 182           |
| 640.2         | 183           |
| 640.4         | 184           |
| 640.6         | 185           |
| 640.8         | 186           |
| 641.0         | 187           |
| 641.2         | 188           |
| 641.4         | 189           |
| 641.6         | 190           |
| 641.8         | 191           |
| 642.0         | 192           |
| 642.2         | 193           |
| 642.4         | 194           |
| 642.6         | 195           |
| 642.8         | 196           |
| 643.0         | 197           |
| 643.2         | 198           |
| 643.4         | 199           |
| 643.6         | 200           |
| 643.8         | 201           |
| 644.0         | 202           |
| 644.2         | 203           |
| 644.4         | 204           |
| 644.6         | 205           |
| 644.8         | 206           |
| 645.0         | 207           |
| 645.2         | 208           |
| 645.4         | 209           |
| 645.6         | 210           |
| 645.8         | 211           |
| 646.0         | 212           |
| 646.2         | 213           |
| 646.4         | 214           |
| 646.6         | 215           |
| 646.8         | 216           |
| 647.0         | 217           |
| 647.2         | 218           |
| 647.4         | 219           |
| 647.6         | 220           |
| 647.8         | 221           |
| 648.0         | 222           |
| 648.2         | 223           |
| 648.4         | 224           |
| 648.6         | 225           |
| 648.8         | 226           |
| 649.0         | 227           |
| 649.2         | 228           |
| 649.4         | 229           |
| 649.6         | 230           |
| 649.8         | 231           |
| 650.0         | 232           |
| 650.2         | 233           |
| 650.4         | 234           |
| 650.6         | 235           |
| 650.8         | 236           |
| 651.0         | 237           |
| 651.2         | 238           |
| 651.4         | 239           |
| 651.6         | 240           |
| 651.8         | 241           |
| 652.0         | 242           |
| 652.2         | 243           |
| 652.4         | 244           |
| 652.6         | 245           |
| 652.8         | 246           |
| 653.0         | 247           |
| 653.2         | 248           |
| 653.4         | 249           |
| 653.6         | 250           |
| 653.8         | 251           |
| 654.0         | 252           |
| 654.2         | 253           |
| 654.4         | 254           |
| 654.6         | 255           |
| 654.8         | 256           |
| 655.0         | 257           |
| 655.2         | 258           |
| 655.4         | 259           |
| 655.6         | 260           |
| 655.8         | 261           |
| 656.0         | 262           |
| 656.2         | 263           |
| 656.4         | 264           |
| 656.6         | 265           |
| 656.8         | 266           |
| 657.0         | 267           |
| 657.2         | 268           |
| 657.4         | 269           |
| 657.6         | 270           |
| 657.8         | 271           |
| 658.0         | 272           |
| 658.2         | 273           |
| 658.4         | 274           |
| 658.6         | 275           |
| 658.8         | 276           |
| 659.0         | 277           |
| 659.2         | 278           |
| 659.4         | 279           |
| 659.6         | 280           |
| 659.8         | 281           |
| 660.0         | 282           |
| 660.2         | 283           |
| 660.4         | 284           |
| 660.6         | 285           |
| 660.8         | 286           |
| 661.0         | 287           |
| 661.2         | 288           |
| 661.4         | 289           |
| 661.6         | 290           |
| 661.8         | 291           |
| 662.0         | 292           |
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