

*NOTE:*  
*TOP ARBUCKLE*  
*3160 feet*

# CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT CORE SUMMARY

|                                                                                      |                                                                       |                                                                                   |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Operator <u>Conoco</u>                                                               | Date <u>March 9, 1948</u>                                             | Research Lab. No. <u>AE</u>                                                       |
| Well <u>W.S.Pickerill "A" No.10</u>                                                  | Date samples received <u>2/1 - 15/49</u>                              | Analysts: <u>Swearingen</u>                                                       |
| Field <u>Geneseo</u>                                                                 | Date analysis completed <u>2/18/49</u>                                | <u>Finley</u>                                                                     |
| County <u>Rice</u>                                                                   | Reported by <u>R. R. Newton</u>                                       | Checked by <u>Cavanaugh</u>                                                       |
| State <u>Kansas</u>                                                                  | To <u>T. C. Davis</u> <u>by phone</u> <u>2/13/49</u>                  | Distribution: _____                                                               |
| Location <u>1320'S, 990'E, N 1/4</u><br><u>Corner, Sec 24, T 18S,</u><br><u>R 8W</u> |                                                                       |                                                                                   |
| Elev. <u>1726</u>                                                                    | <u>G*DF-RE</u>                                                        | Conventional <input type="checkbox"/> Diamond <input checked="" type="checkbox"/> |
| Drilling Mud Data                                                                    |                                                                       |                                                                                   |
| Weight <u>10.4</u> #/ <u>Gallon</u>                                                  | Wire line <input type="checkbox"/> Side Wall <input type="checkbox"/> | Received in <u>Boxes and Foil</u>                                                 |
| Visc. <u>35</u> MARSH Sec.                                                           |                                                                       |                                                                                   |
| Water loss <u>75</u> cc/                                                             |                                                                       |                                                                                   |
| pH <u>5</u>                                                                          |                                                                       |                                                                                   |
| Chlorides <u>98,000</u> ppm                                                          |                                                                       |                                                                                   |

### CORE RECORD:

Formation cored Lansing Sand and  
Arbuckle Lime

Depths:

Started coring 2788 ft.

Top of section \_\_\_\_\_ ft.

Bottom of section \_\_\_\_\_ ft.

Bottom of core 3210 ft.

Total cored 422 ft.

Core recovered 381.1 ft.

Analyzed 121.9 ft.

### REMARKS:

Attention is called to those samples which show a total fluid content of more than 100%. As is the practice in most core analysis methods, the quantity of fluid in the core was determined from one portion of the sample and the porosity from another, and the combined results used to calculate the per cent of oil and water saturation. Any difference in rock structure between these portions of sample would give an erroneous oil and water saturation.

### COMPLETION DATA:

3-49  
DDPct. 5-15-50 3000  
1125 -

### PRODUCTION DATA:

Submitted by R. Cavanaugh  
PAGE 1 OF 9

## CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT

## RESULTS OF SATURATION TESTS

Conoco

Pickerill "A" No. 10

AE

OPERATOR

WELL

RESEARCH LAB. No.

| SAMPLE NO. | DEPTH FEET | POROSITY % | SATURATION % PORE SPACE |       |        | CONNATE WATER % PORE SPACE (1) | FEET OF SAND |      | A.P.I. GRAVITY | RESIDUAL CHLORIDES PPM | REMARKS |
|------------|------------|------------|-------------------------|-------|--------|--------------------------------|--------------|------|----------------|------------------------|---------|
|            |            |            | OIL                     | WATER | VACANT |                                | FEET         | CUM. |                |                        |         |
| 1          | 2800.0     | 32.1       | 2 ✓                     | 32 ✓  | 66 ✓   | 100                            |              |      |                |                        |         |
| 2          | 2801.0     | 22.2       | 6                       | 17    | 77     |                                |              |      |                |                        |         |
| 3          | 2802.0     | 21.7       | 10                      | 17    | 73     |                                |              |      |                |                        |         |
| 4          | 2803.5     | 19.6       | 12                      | 17    | 71     |                                |              |      |                |                        |         |
| 5          | 2804.7     | 20.1       | 5                       | 9     | 86     |                                |              |      |                |                        |         |
| 6          | 2806.2     | 19.9       | 4                       | 16    | 80     |                                |              |      |                |                        |         |
| 7          | 2807.2     | 14.7       | 8                       | 22    | 70     |                                |              |      |                |                        |         |
| 8          | 2808.2     | 17.8       | 9                       | 27    | 64     |                                |              |      |                |                        |         |
| 9          | 2809.2     | 16.0       | 10                      | 17    | 73     |                                |              |      |                |                        |         |
| 10         | 2840.6     | 3.1        | 9                       | 190   | -99    |                                |              |      |                |                        |         |
| 11         | 2856.5     | 4.0        | 8                       | 41    | 51     |                                |              |      |                |                        |         |
| 12         | 2858.7     | 5.1        | 7                       | 214   | -121   |                                |              |      |                |                        |         |
| 13         | 2859.7     | 20.5       | 22                      | 48    | 30     |                                |              |      |                |                        |         |
| 14         | 2860.5     | 20.8       | 19                      | 40    | 41     |                                |              |      |                |                        |         |
| 61         | 2880.5     | 24.5       | 5                       | 52    | 43     |                                |              |      |                |                        |         |
| 62         | 2882.5     | 22.7       | 4                       | 45    | 51     |                                |              |      |                |                        |         |
| 63         | 2883.8     | 23.5       | 0                       | 81    | 19     |                                |              |      |                |                        |         |
| 64         | 2884.8     | 7.2        | 0                       | 97    | 33     |                                |              |      |                |                        |         |
| 65         | 2886.6     | 23.9       | 0.3                     | 65    | 35     |                                |              |      |                |                        |         |
| 66         | 2888.0     | 26.4       | 0                       | 78    | 22     |                                |              |      |                |                        |         |
| 67         | 2889.0     | 26.7       | 0                       | 72    | 28     |                                |              |      |                |                        |         |
| 68         | 2943.0     | 8.1        | 9                       | 52    | 39     |                                |              |      |                |                        |         |
| 69         | 2945.0     | 5.6        | 4                       | 43    | 53     |                                |              |      |                |                        |         |
| 70         | 2946.1     | 4.2        | 1                       | 59    | 40     |                                |              |      |                |                        |         |
| 71         | 2948.4     | 14.6       | 7                       | 23    | 70     |                                |              |      |                |                        |         |
| 72         | 2958.3     | 12.4       | 2                       | 90    | 8      |                                |              |      |                |                        |         |
| 73         | 2960.4     | 14.1       | 12                      | 62    | 26     |                                |              |      |                |                        |         |
| 74         | 2961.5     | 12.8       | 15                      | 62    | 23     |                                |              |      |                |                        |         |
| 15         | 2981.0     | 7.9        | NS                      | NS    | NS     |                                |              |      |                |                        |         |
| 16         | 2988.5     | 4.7        | 11                      | 82    | 7      |                                |              |      |                |                        |         |
| 17         | 3007.0     | 9.6        | 15                      | 54    | 31     |                                |              |      |                |                        |         |
| 18         | 3008.0     | 15.7       | 16                      | 49    | 35     |                                |              |      |                |                        |         |
| 19         | 3009.2     | 19.0       | 10                      | 59    | 31     |                                |              |      |                |                        |         |
| 20         | 3010.2     | 19.4       | 3                       | 6     | 91     |                                |              |      |                |                        |         |
| 21         | 3011.0     | 2.6        | 15                      | 113   | -28    |                                |              |      |                |                        |         |
| 22         | 3013.0     | 2.2        | 13                      | 151   | -64    |                                |              |      |                |                        |         |

## SUMMARY

| DEPTH FEET<br>FROM | TO | FEET OF<br>SAND | AVG.<br>POROSITY | AVG. OIL<br>SATURATION | AVG. WATER<br>SATURATION | AVG. CONNATE<br>WATER |
|--------------------|----|-----------------|------------------|------------------------|--------------------------|-----------------------|
|--------------------|----|-----------------|------------------|------------------------|--------------------------|-----------------------|

(1) LABORATORY DETERMINATION BY CAPILLARITY UNLESS OTHERWISE NOTED. (NS) NO SAMPLE.

## CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT

## RESULTS OF SATURATION TESTS

OPERATOR Conoco WELL Pickertill HAN No. 10 RESEARCH LAB. No. AE

| SAMPLE NO. | DEPTH FEET | POROSITY % | SATURATION % PORE SPACE |       |        | CONNATE WATER % PORE SPACE (1) | FEET OF SAND |      | A.P.I. GRAVITY | RESIDUAL CHLORIDES PPM | REMARKS |
|------------|------------|------------|-------------------------|-------|--------|--------------------------------|--------------|------|----------------|------------------------|---------|
|            |            |            | OIL                     | WATER | VACANT |                                | FEET         | CUM. |                |                        |         |
| 23         | 3030.8     | 2.3        | 2                       | 39    | 59     |                                |              |      |                |                        |         |
| 24         | 3035.5     | 2.6        | 14                      | 85    | 1      |                                |              |      |                |                        |         |
| 25         | 3050.2     | 3.1        | 4                       | 96    | 0      |                                |              |      |                |                        |         |
| 26         | 3051.8     | 3.7        | 2                       | 111   | -13    |                                |              |      |                |                        |         |
| 27         | 3053.3     | 5.3        | 3                       | 18    | 79     |                                |              |      |                |                        |         |
| 28         | 3062.0     | 2.4        | 19                      | 58    | 23     |                                |              |      |                |                        |         |
| 29         | 3066.5     | 2.3        | NS                      | NS    | NS     |                                |              |      |                |                        |         |
| 30         | 3160.2     | 6.0        | 66                      | 42    | -8     |                                |              |      |                |                        |         |
| 31         | 3162.8     | 15.3       | 1                       | 78    | 21     |                                |              |      |                |                        |         |
| 32         | 3164.8     | 8.1        | 48                      | 78    | -26    |                                |              |      |                |                        |         |
| 33         | 3166.0     | 14.0       | 2                       | 96    | 2      |                                |              |      |                |                        |         |
| 34         | 3168.0     | 17.6       | 14                      | 12    | 74     |                                |              |      |                |                        |         |
| 35         | 3169.6     | 24.0       | 15                      | 29    | 56     |                                |              |      |                |                        |         |
| 36         | 3170.4     | 22.3       | 17                      | 27    | 56     |                                |              |      |                |                        |         |
| 37         | 3173.8     | 20.6       | 22                      | 36    | 42     |                                |              |      |                |                        |         |
| 38         | 3174.5     | 18.0       | 25                      | 28    | 47     |                                |              |      |                |                        |         |
| 39         | 3175.6     | 24.4       | 20                      | 26    | 54     |                                |              |      |                |                        |         |
| 40         | 3176.6     | 14.3       | 38                      | 43    | 19     |                                |              |      |                |                        |         |
| 41         | 3177.4     | 12.3       | 33                      | 27    | 40     |                                |              |      |                |                        |         |
| 42         | 3178.4     | 13.3       | 33                      | 30    | 27     |                                |              |      |                |                        |         |
| 43         | 3179.4     | 23.9       | 19                      | 28    | 53     |                                |              |      |                |                        |         |
| 44         | 3180.5     | 21.3       | 20                      | 31    | 49     |                                |              |      |                |                        |         |
| 45         | 3181.5     | 12.5       | 14                      | 23    | 63     |                                |              |      |                |                        |         |
| 46         | 3182.7     | 6.0        | 2                       | 124   | -26    |                                |              |      |                |                        |         |
| 47         | 3183.7     | 17.3       | 2                       | 27    | 71     |                                |              |      |                |                        |         |
| 48         | 3184.7     | 4.8        | 36                      | 39    | 25     |                                |              |      |                |                        |         |
| 49         | 3185.7     | 2.6        | 8                       | 34    | 58     |                                |              |      |                |                        |         |
| 50         | 3186.3     | 3.0        | 32                      | 179   | -111   |                                |              |      |                |                        |         |
| 51         | 3192.2     | 7.3        | 14                      | 36    | 50     |                                |              |      |                |                        |         |
| 52         | 3193.8     | 6.2        | 18                      | 53    | 29     |                                |              |      |                |                        |         |
| 53         | 3194.9     | 13.2       | 16                      | 69    | 15     |                                |              |      |                |                        |         |
| 54         | 3198.6     | 7.6        | 10                      | 49    | 41     |                                |              |      |                |                        |         |
| 55         | 3200.2     | 10.8       | 21                      | 45    | 34     |                                |              |      |                |                        |         |
| 56         | 3202.0     | 22.8       | 14                      | 27    | 59     |                                |              |      |                |                        |         |
| 57         | 3203.8     | 17.1       | 35                      | 49    | 16     |                                |              |      |                |                        |         |

## SUMMARY

| DEPTH FEET FROM | TO | FEET OF SAND | AVG. POROSITY | AVG. OIL SATURATION | AVG. WATER SATURATION | AVG. CONNATE WATER |
|-----------------|----|--------------|---------------|---------------------|-----------------------|--------------------|
|-----------------|----|--------------|---------------|---------------------|-----------------------|--------------------|

# CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT

## RESULTS OF SATURATION TESTS

OPERATOR Conoco WELL Pickerill "A" No. 10 RESEARCH LAB. No. AE

| SAMPLE NO. | DEPTH FEET | POROSITY % | SATURATION % PORE SPACE |       |        | CONNATE WATER % PORE SPACE (1) | FEET OF SAND |      | A.P.I. GRAVITY | RESIDUAL CHLORIDES PPM | REMARKS |
|------------|------------|------------|-------------------------|-------|--------|--------------------------------|--------------|------|----------------|------------------------|---------|
|            |            |            | OIL                     | WATER | VACANT |                                | FEET         | CUM. |                |                        |         |
| 58         | 3205.3     | 5.8        | 16                      | 49    | 35     |                                |              |      |                |                        |         |
| 59         | 3206.6     | 8.9        | 49                      | 70    | -19    |                                |              |      |                |                        |         |
| 60         | 3209.4     | 8.2        | 3                       | 97    | 0      |                                |              |      |                |                        |         |

## SUMMARY

| DEPTH FEET |    | FEET OF SAND | AVG. POROSITY | AVG. OIL SATURATION | AVG. WATER SATURATION | AVG. CONNATE WATER |
|------------|----|--------------|---------------|---------------------|-----------------------|--------------------|
| FROM       | TO |              |               |                     |                       |                    |

## CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT

## RESULTS OF PERMEABILITY TESTS

OPERATOR ConocoWELL Pickerill "A" No. 10RESEARCH LAB. No. AE

| SAMPLE NO. | DEPTH FEET | POROSITY %<br>PORE SPACE | PERMEABILITY TO AIR<br>MILLIDARCYS |          | FEET OF SAND |          | CAPACITY<br>FT. X MD. | REMARKS |
|------------|------------|--------------------------|------------------------------------|----------|--------------|----------|-----------------------|---------|
|            |            |                          | HORIZONTAL                         | VERTICAL | FEET         | CUM. FT. |                       |         |
| 1          | 2799.7     | 23.1                     | *                                  |          |              |          |                       |         |
| 2          | 2800.2     | 32.1                     | *                                  |          |              |          |                       |         |
| 3          | 2800.8     | 22.2                     | *                                  |          |              |          |                       |         |
| 4          | 2801.2     | 12.2                     | *                                  |          |              |          |                       |         |
| 5          | 2801.8     | 21.7                     | *                                  |          |              |          |                       |         |
| 6          | 2802.2     | 21.6                     | 78                                 |          |              |          |                       |         |
| 7          | 2802.7     | 31.6                     | 15                                 |          |              |          |                       |         |
| 8          | 2803.4     | 19.6                     | 17                                 |          |              |          |                       |         |
| 9          | 2803.7     | 35.2                     | 58                                 |          |              |          |                       |         |
| 10         | 2804.5     | 20.1                     | 62                                 |          |              |          |                       |         |
| 11         | 2804.8     | 16.0                     | *                                  |          |              |          |                       |         |
| 12         | 2805.7     | 6.5                      | *                                  |          |              |          |                       |         |
| 13         | 2806.1     | 19.9                     | 12                                 |          |              |          |                       |         |
| 14         | 2806.5     | 9.3                      | *                                  |          |              |          |                       |         |
| 15         | 2807.0     | 14.7                     | 10                                 |          |              |          |                       |         |
| 16         | 2807.2     | 11.5                     | *                                  |          |              |          |                       |         |
| 17         | 2807.6     | 17.8                     | 4                                  |          |              |          |                       |         |
| 18         | 2808.8     | 16.6                     | *                                  |          |              |          |                       |         |
| 19         | 2809.6     | 16.0                     | *                                  |          |              |          |                       |         |
| 20         | 2812.4     | 6.1                      | *                                  |          |              |          |                       |         |
| 21         | 2840.2     | 2.6                      | *                                  |          |              |          |                       |         |
| 22         | 2840.8     | 3.1                      | *                                  |          |              |          |                       |         |
| 23         | 2841.5     | 2.9                      | *                                  |          |              |          |                       |         |
| 24         | 2856.1     | 4.0                      | *                                  |          |              |          |                       |         |
| 25         | 2856.8     | 3.2                      | *                                  |          |              |          |                       |         |
| 26         | 2858.2     | 5.1                      | *                                  |          |              |          |                       |         |
| 27         | 2858.8     | 5.0                      | *                                  |          |              |          |                       |         |
| 28         | 2859.7     | 20.5                     | 169                                |          |              |          |                       |         |
| 29         | 2860.5     | 20.8                     | 803                                |          |              |          |                       |         |
| 117        | 2877.8     | 10.5                     | *                                  |          |              |          |                       |         |
| 118        | 2878.2     | 15.4                     | *                                  |          |              |          |                       |         |
| 119        | 2878.7     | 22.2                     | 10                                 |          |              |          |                       |         |
| 120        | 2879.1     | 14.9                     | *                                  |          |              |          |                       |         |
| 121        | 2880.1     | 33.9                     | 2                                  |          |              |          |                       |         |
| 122        | 2880.5     | 24.5                     | *                                  |          |              |          |                       |         |

## SUMMARY

| DEPTH FEET |    | FEET OF SAND | AVERAGE HORIZONTAL PERMEABILITY | CAPACITY FT. X MD. |
|------------|----|--------------|---------------------------------|--------------------|
| FROM       | TO |              |                                 |                    |

## CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT

## RESULTS OF PERMEABILITY TESTS

OPERATOR Conoco WELL Pickerill "A" No. 10 RESEARCH LAB. NO. AE

| SAMPLE NO. | DEPTH FEET | POROSITY %<br>PORE SPACE | PERMEABILITY TO AIR<br>MILLIDARCS |          | FEET OF SAND |          | CAPACITY<br>FT. X MD. | REMARKS |
|------------|------------|--------------------------|-----------------------------------|----------|--------------|----------|-----------------------|---------|
|            |            |                          | HORIZONTAL                        | VERTICAL | FEET         | CUM. FT. |                       |         |
| 123        | 2881.3     | 22.5                     | *                                 |          |              |          |                       |         |
| 124        | 2881.8     | 22.6                     | 4                                 |          |              |          |                       |         |
| 125        | 2882.3     | 19.7                     | 2                                 |          |              |          |                       |         |
| 126        | 2882.6     | 22.7                     | 4                                 |          |              |          |                       |         |
| 127        | 2883.5     | 23.5                     | 3                                 |          |              |          |                       |         |
| 128        | 2884.7     | 6.9                      | *                                 |          |              |          |                       |         |
| 129        | 2885.0     | 7.2                      | *                                 |          |              |          |                       |         |
| 130        | 2885.7     | 18.5                     | *                                 |          |              |          |                       |         |
| 131        | 2886.2     | 13.1                     | *                                 |          |              |          |                       |         |
| 132        | 2886.6     | 16.6                     | *                                 |          |              |          |                       |         |
| 133        | 2886.9     | 31.3                     | 9                                 |          |              |          |                       |         |
| 134        | 2887.6     | 16.2                     | *                                 |          |              |          |                       |         |
| 135        | 2888.0     | 13.7                     | *                                 |          |              |          |                       |         |
| 136        | 2888.3     | 26.4                     | *                                 |          |              |          |                       |         |
| 137        | 2889.0     | 26.7                     | 3                                 |          |              |          |                       |         |
| 138        | 2889.8     | 22.0                     | 4                                 |          |              |          |                       |         |
| 139        | 2890.3     | 23.1                     | *                                 |          |              |          |                       |         |
| 140        | 2890.8     | 20.0                     | *                                 |          |              |          |                       |         |
| 141        | 2891.4     | 31.9                     | 3                                 |          |              |          |                       |         |
| 142        | 2892.0     | 30.2                     | 2                                 |          |              |          |                       |         |
| 143        | 2892.5     | 30.2                     | NS                                |          |              |          |                       |         |
| 144        | 2893.0     | 29.1                     | 3                                 |          |              |          |                       |         |
| 145        | 2893.5     | 28.7                     | 8                                 |          |              |          |                       |         |
| 146        | 2894.0     | 9.3                      | *                                 |          |              |          |                       |         |
| 147        | 2895.2     | 12.2                     | *                                 |          |              |          |                       |         |
| 148        | 2941.2     | 5.0                      | *                                 |          |              |          |                       |         |
| 149        | 2941.8     | 6.7                      | *                                 |          |              |          |                       |         |
| 150        | 2942.3     | 13.5                     | *                                 |          |              |          |                       |         |
| 151        | 2942.7     | 8.1                      | *                                 |          |              |          |                       |         |
| 152        | 2943.4     | 4.5                      | *                                 |          |              |          |                       |         |
| 153        | 2944.1     | 8.4                      | *                                 |          |              |          |                       |         |
| 154        | 2945.0     | 5.6                      | *                                 |          |              |          |                       |         |
| 155        | 2945.4     | 5.2                      | *                                 |          |              |          |                       |         |
| 156        | 2946.1     | 4.0                      | *                                 |          |              |          |                       |         |
| 157        | 2946.4     | 5.6                      | *                                 |          |              |          |                       |         |
| 158        | 2947.5     | 4.0                      | *                                 |          |              |          |                       |         |

## SUMMARY

| DEPTH FEET |    | FEET OF SAND | AVERAGE HORIZONTAL PERMEABILITY | CAPACITY FT. X MD. |
|------------|----|--------------|---------------------------------|--------------------|
| FROM       | TO |              |                                 |                    |

## CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT

## RESULTS OF PERMEABILITY TESTS

Conoco

Pickerill "A" # 10

AE

OPERATOR

WELL

RESEARCH LAB. No.

| SAMPLE NO. | DEPTH FEET | POROSITY % PORE SPACE | PERMEABILITY TO AIR MILLIDARCYS |          | FEET OF SAND |          | CAPACITY FT. X MD. | REMARKS |
|------------|------------|-----------------------|---------------------------------|----------|--------------|----------|--------------------|---------|
|            |            |                       | HORIZONTAL                      | VERTICAL | FEET         | CUM. FT. |                    |         |
| 159        | 2948.4     | 4.2                   | *                               |          |              |          |                    |         |
| 160        | 2948.7     | 4.2                   | *                               |          |              |          |                    |         |
| 161        | 2958.3     | 14.6                  | *                               |          |              |          |                    |         |
| 162        | 2960.3     | 12.4                  | *                               |          |              |          |                    |         |
| 163        | 2961.5     | 14.1                  | *                               |          |              |          |                    |         |
| 164        | 2962.0     | 12.8                  | *                               |          |              |          |                    |         |
| 165        | 2963.0     | 7.9                   | *                               |          |              |          |                    |         |
| 33         | 2981.2     | 4.9                   | *                               |          |              |          |                    |         |
| 32         | 2981.9     | 2.8                   | *                               |          |              |          |                    |         |
| 31         | 2988.3     | 4.7                   | *                               |          |              |          |                    |         |
| 30         | 2988.8     | 3.5                   | *                               |          |              |          |                    |         |
| 34         | 3007.0     | 9.6                   | *                               |          |              |          |                    |         |
| 35         | 3007.8     | 15.7                  | *                               |          |              |          |                    |         |
| 36         | 3009.2     | 19.0                  | *                               |          |              |          |                    |         |
| 37         | 3010.2     | 19.4                  | *                               |          |              |          |                    |         |
| 38         | 3011.0     | 2.6                   | *                               |          |              |          |                    |         |
| 39         | 3013.0     | 2.2                   | *                               |          |              |          |                    |         |
| 40         | 3030.8     | 2.3                   | *                               |          |              |          |                    |         |
| 41         | 3035.5     | 2.6                   | *                               |          |              |          |                    |         |
| 42         | 3050.2     | 3.1                   | *                               |          |              |          |                    |         |
| 43         | 3051.8     | 3.7                   | *                               |          |              |          |                    |         |
| 44         | 3053.3     | 5.3                   | *                               |          |              |          |                    |         |
| 45         | 3062.0     | 2.4                   | *                               |          |              |          |                    |         |
| 46         | 3066.5     | 2.3                   | *                               |          |              |          |                    |         |
| 48         | 3159.9     | 3.1                   | *                               |          |              |          |                    |         |
| 49         | 3160.4     | 6.0                   | *                               |          |              |          |                    |         |
| 50         | 3161.3     | 4.5                   | *                               |          |              |          |                    |         |
| 51         | 3162.1     | 15.3                  | 317                             |          |              |          |                    |         |
| 52         | 3163.0     | 10.6                  | *                               |          |              |          |                    |         |
| 53         | 3163.8     | 13.7                  | 119                             |          |              |          |                    |         |
| 54         | 3164.7     | 5.5                   | *                               |          |              |          |                    |         |
| 55         | 3165.1     | 8.1                   | 31                              |          |              |          |                    |         |
| 56         | 3165.7     | 14.0                  | 37                              |          |              |          |                    |         |
| 57         | 3166.2     | 5.7                   | *                               |          |              |          |                    |         |
| 58         | 3167.9     | 4.5                   | *                               |          |              |          |                    |         |
| 59         | 3168.3     | 17.6                  | 1056                            |          |              |          |                    |         |
| 60         | 3168.9     | 18.2                  | 807                             |          |              |          |                    |         |

C1 3167.2 4.2

## SUMMARY

DEPTH FEET  
FROM TOFEET OF  
SANDAVERAGE  
HORIZONTAL  
PERMEABILITYCAPACITY  
FT. X MD.

## CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT

## RESULTS OF PERMEABILITY TESTS

OPERATOR Conoco WELL W.S. Pickerill "A" #10 RESEARCH LAB. NO. AE

| SAMPLE NO. | DEPTH FEET | POROSITY %<br>PORE SPACE | PERMEABILITY TO AIR<br>MILLIDARCYS |          | FEET OF SAND |          | CAPACITY<br>FT. X MD. | REMARKS |
|------------|------------|--------------------------|------------------------------------|----------|--------------|----------|-----------------------|---------|
|            |            |                          | HORIZONTAL                         | VERTICAL | FEET         | CUM. FT. |                       |         |
| 61         | 3169.2     | 25.2                     | 2463                               |          |              |          |                       |         |
| 62         | 3169.7     | 24.0                     | 1789                               |          |              |          |                       |         |
| 63         | 3170.3     | 22.7                     | 1405                               |          |              |          |                       |         |
| 64         | 3170.7     | 22.3                     | 1817                               |          |              |          |                       |         |
| 65         | 3173.2     | 19.8                     | 919                                |          |              |          |                       |         |
| 66         | 3173.5     | 19.5                     | 612                                |          |              |          |                       |         |
| 67         | 3174.0     | 20.6                     | 648                                |          |              |          |                       |         |
| 68         | 3174.7     | 18.0                     | 654                                |          |              |          |                       |         |
| 69         | 3175.2     | 18.0                     | 303                                |          |              |          |                       |         |
| 70         | 3175.5     | 20.8                     | 1620                               |          |              |          |                       |         |
| 71         | 3175.9     | 24.4                     | 2859                               |          |              |          |                       |         |
| 72         | 3176.4     | 14.3                     | 2290                               |          |              |          |                       |         |
| 73         | 3176.7     | 11.1                     | 233                                |          |              |          |                       |         |
| 74         | 3177.3     | 15.8                     | 785                                |          |              |          |                       |         |
| 75         | 3177.7     | 12.3                     | 501                                |          |              |          |                       |         |
| 76         | 3178.1     | 13.3                     | 100                                |          |              |          |                       |         |
| 77         | 3178.5     | 22.5                     | 1333                               |          |              |          |                       |         |
| 78         | 3179.1     | 20.2                     | 1278                               |          |              |          |                       |         |
| 79         | 3179.6     | 23.9                     | 3259                               |          |              |          |                       |         |
| 80         | 3180.2     | 21.3                     | 2088                               |          |              |          |                       |         |
| 81         | 3180.6     | 16.5                     | 310                                |          |              |          |                       |         |
| 82         | 3181.3     | 13.1                     | 52                                 |          |              |          |                       |         |
| 83         | 3181.7     | 11.1                     | 123                                |          |              |          |                       |         |
| 84         | 3182.3     | 12.5                     | 13                                 |          |              |          |                       |         |
| 85         | 3182.8     | 6.0                      | *                                  |          |              |          |                       |         |
| 86         | 3183.2     | 18.7                     | 183                                |          |              |          |                       |         |
| 87         | 3183.6     | 17.3                     | 7                                  |          |              |          |                       |         |
| 88         | 3184.2     | 4.8                      | 4                                  |          |              |          |                       |         |
| 89         | 3184.8     | 1.9                      | *                                  |          |              |          |                       |         |
| 90         | 3185.2     | 2.4                      | *                                  |          |              |          |                       |         |
| 91         | 3185.6     | 2.6                      | *                                  |          |              |          |                       |         |
| 92         | 3185.9     | 1.9                      | *                                  |          |              |          |                       |         |
| 93         | 3186.4     | 3.0                      | *                                  |          |              |          |                       |         |
| 94         | 3190.8     | 5.5                      | *                                  |          |              |          |                       |         |
| 95         | 3191.4     | 5.2                      | *                                  |          |              |          |                       |         |
| 96         | 3192.0     | 4.4                      | *                                  |          |              |          |                       |         |

## SUMMARY

| DEPTH FEET |    | FEET OF SAND | AVERAGE HORIZONTAL PERMEABILITY | CAPACITY FT. X MD. |
|------------|----|--------------|---------------------------------|--------------------|
| FROM       | TO |              |                                 |                    |

## CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT

## RESULTS OF PERMEABILITY TESTS

OPERATOR ConocoWELL Pickerill "A" No. 10RESEARCH LAB. NO. AE

| SAMPLE NO. | DEPTH FEET | POROSITY %<br>PORE SPACE | PERMEABILITY TO AIR<br>MILLIDARCYs |          | FEET OF SAND |          | CAPACITY<br>FT. X MD. | REMARKS |
|------------|------------|--------------------------|------------------------------------|----------|--------------|----------|-----------------------|---------|
|            |            |                          | HORIZONTAL                         | VERTICAL | FEET         | CUM. FT. |                       |         |
| 97         | 3192.4     | 7.3                      | *                                  |          |              |          |                       |         |
| 98         | 3192.9     | 4.6                      | *                                  |          |              |          |                       |         |
| 99         | 3193.6     | 6.2                      | *                                  |          |              |          |                       |         |
| 100        | 3194.3     | 14.0                     | 47                                 |          |              |          |                       |         |
| 101        | 3195.2     | 13.2                     | 132                                |          |              |          |                       |         |
| 102        | 3195.7     | 6.1                      | *                                  |          |              |          |                       |         |
| 103        | 3198.8     | 7.6                      | *                                  |          |              |          |                       |         |
| 104        | 3199.4     | 13.8                     | 3                                  |          |              |          |                       |         |
| 105        | 3200.4     | 10.8                     | 25                                 |          |              |          |                       |         |
| 106        | 3201.7     | 4.5                      | *                                  |          |              |          |                       |         |
| 107        | 3202.2     | 22.8                     | 92                                 |          |              |          |                       |         |
| 108        | 3203.2     | 11.8                     | *                                  |          |              |          |                       |         |
| 109        | 3203.7     | 17.1                     | 815                                |          |              |          |                       |         |
| 110        | 3204.3     | 19.3                     | 1369                               |          |              |          |                       |         |
| 111        | 3205.5     | 5.8                      | *                                  |          |              |          |                       |         |
| 112        | 3206.0     | 5.9                      | *                                  |          |              |          |                       |         |
| 113        | 3206.7     | 8.9                      | *                                  |          |              |          |                       |         |
| 114        | 3207.6     | 13.3                     | 5                                  |          |              |          |                       |         |
| 115        | 3208.8     | 7.8                      | 13                                 |          |              |          |                       |         |
| 116        | 3209.7     | 8.2                      | *                                  |          |              |          |                       |         |

\* Less than 0.1 Md.

## SUMMARY

| DEPTH FEET |    | FEET OF SAND | AVERAGE HORIZONTAL PERMEABILITY | CAPACITY FT. X MD. |
|------------|----|--------------|---------------------------------|--------------------|
| FROM       | TO |              |                                 |                    |