

# HELMERICH & PAYNE, INC.

TULOMA BUILDING  
TULSA, OKLAHOMA

April 10, 1928.

Mid-Continent Oil Company,  
Cosden Building,  
Tulsa, Oklahoma.

Gentlemen:

Following is a log of our Melick Well No. 1, located  
in the Northeast Corner of Section 21, Township 33 South, Range  
2 East, Sumner County, Kansas;

|     |   |     |                     |     |   |     |             |
|-----|---|-----|---------------------|-----|---|-----|-------------|
| 0   | - | 10  | Surface Cellar      | 310 | - | 425 | Broken Lime |
| 10  | - | 40  | Blue Shale          | 425 | - | 450 | Lime        |
| 40  | - | 75  | Yellow Shale        | 450 | - | 455 | Red Rock    |
| 75  | - | 85  | Sandy Lime - Water  | 455 | - | 490 | Lime        |
|     |   |     | 8 Bailleurs Per Hr. | 490 | - | 495 | Red Rock    |
| 85  | - | 90  | Broken Shale & Lime | 495 | - | 535 | Lime        |
| 90  | - | 95  | Blue Slate          | 535 | - | 550 | Slate       |
| 95  | - | 100 | Slate               | 550 | - | 560 | Red Rock    |
| 100 | - | 110 | Lime                | 560 | - | 565 | Lime        |
| 110 | - | 140 | Shale               | 565 | - | 570 | Shale       |
| 140 | - | 150 | Lime                | 570 | - | 580 | Lime        |
| 150 | - | 240 | Shale               | 580 | - | 585 | Black Slate |
| 240 | - | 265 | Lime                | 585 | - | 635 | White Lime  |
| 265 | - | 270 | Slate               | 635 | - | 645 | White Shale |
| 270 | - | 310 | Lime                |     |   |     |             |

Respectfully submitted,

HELMERICH & PAYNE, INC.

BY

W. H. Helmerich

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HELMERICH & PAYNE, INC.

TULOMA BUILDING

TULSA, OKLAHOMA

April 23, 1928.

Mid-Continent Oil Company,  
Cosden Building,  
Tulsa, Oklahoma.

Gentlemen:

Following is a continuation of the log of our Melick  
Well No. 1, located in the Northeast Corner of Section 21, Town-  
ship 33 South, Range 2 East, Sumner County, Kansas:

|           |             |             |                |
|-----------|-------------|-------------|----------------|
| 645 - 680 | Lime        | 980 - 1035  | Blue slate     |
| 680 - 700 | Red rock    | 1035 - 1038 | Red rock       |
| 700 - 715 | Brown shale | 1038 - 1040 | Blue slate     |
| 715 - 720 | Blue shale  | 1040 - 1042 | Lime shell     |
| 720 - 730 | Lime white  | 1042 - 1050 | Blue slate     |
| 730 - 735 | Lime        | 1050 - 1070 | Blue slate     |
| 735 - 750 | Blue slate  |             | and shells     |
| 750 - 775 | Brown slate | 1070 - 1085 | Sandy lime     |
| 775 - 830 | Lime        | 1085 - 1090 | Blue shale     |
| 830 - 835 | Blue slate  | 1090 - 1130 | Lime           |
| 835 - 845 | White lime  | 1130 - 1135 | Blue shale     |
| 845 - 850 | Slate black | 1135 - 1140 | White shale    |
| 850 - 875 | Lime        | 1140 - 1155 | White slate    |
| 875 - 885 | Blue slate  | 1155 - 1170 | White lime     |
| 885 - 890 | Lime        | 1170 - 1180 | Black slate    |
| 890 - 900 | Slate       | 1180 - 1190 | Lime slate     |
| 900 - 965 | Sandy lime  | 1190 - 1200 | Blue shale     |
| 945       | 20 B. W.    | 1200 - 1215 | Lime grey hard |
| 955       | H. F. W.    | 1215 - 1225 | Lime white     |
| 965 - 980 | Slate       | 1225 - 1245 | Gray lime      |

Respectfully submitted,

HELMERICH & PAYNE, INC.

BY

*W. H. Helmerich*

HELMERICH & PAYNE, INC.

TULOMA BUILDING  
TULSA, OKLAHOMA

April 30, 1928.

Mid-continent Oil Company,  
Cosden Building,  
Tulsa, Oklahoma.

Gentlemen:

Following is a continuation of the log of our Helick  
Well No. 1, located in the Northeast Corner of Section 21, Town-  
ship 33 South, Range 2 East, Sumner County, Kansas:

|             |                   |             |                  |
|-------------|-------------------|-------------|------------------|
| 1245 - 1260 | gray lime         | 1400 - 1420 | sandy lime       |
| 1260 - 1270 | white lime        | 1420 - 1430 | lime             |
| 1270 - 1275 | blue slate        | 1430 - 1440 | brown sandy lime |
| 1275 - 1285 | pink slate        |             | H. F. W.         |
| 1285 - 1290 | hard lime         | 1440 - 1485 | blue shale       |
| 1290 - 1315 | blue shale        | 1485 - 1495 | blue slate       |
| 1315 - 1325 | white shale       | 1495 - 1510 | blue shale       |
| 1325 - 1330 | blue slate        | 1510 - 1525 | blue slate       |
| 1330 - 1335 | pink shale        | 1525 - 1530 | hard lime        |
| 1335 - 1345 | lime              | 1530 - 1550 | blue shale       |
| 1345 - 1370 | brown sandy shale | 1550 - 1570 | hard lime        |
|             | 4 B. W.           | 1570 - 1585 | white lime       |
| 1370 - 1400 | slate             | 1585 - 1600 | lime hard        |

Respectfully submitted,

HELMERICH & PAYNE, INC.

BY

W. H. Helmerich

HELMERICH & PAYNE, INC.

TULOMA BUILDING  
TULSA, OKLAHOMA

May 8, 1928.

Midcontinent Petroleum Corporation,  
Cosden Building,  
Tulsa, Oklahoma.

Gentlemen:

Following is a continuation of the log of our  
Hellick Well No. 1, located in the Northeast Corner of  
Section 21, Township 33 South, Range 2 East, Sumner  
County, Kansas;

|             |                      |
|-------------|----------------------|
| 1600 - 1615 | white lime           |
| 1615 - 1630 | slate                |
| 1630 - 1645 | sandy lime           |
| 1645 - 1650 | blue shale           |
| 1650 - 1660 | blue shale           |
| 1660 - 1675 | hard lime dark       |
| 1675 - 1685 | slate                |
| 1685 - 1690 | lime                 |
| 1690 - 1705 | lime                 |
| 1705 - 1745 | white lime           |
| 1745 - 1770 | lime white           |
| 1770 - 1785 | lime grey hard       |
| 1785 - 1805 | shale sandy          |
| 1805 - 1810 | sandy lime           |
| 1810 - 1825 | lime                 |
| 1825 - 1830 | black slate          |
| 1830 - 1845 | sandy slate          |
| 1845 - 1865 | sand H.F.W. 1845-52  |
| 1865 - 1870 | blue shale           |
| 1870 - 1880 | sand                 |
| 1880 - 1895 | blue shale           |
| 1895 - 1900 | slate Under-reaming. |

Respectfully submitted,

HELMERICH & PAYNE, INC.

BY

*W. H. Helmerich*

Tulsa, Oklahoma.  
May 15, 1928.

Midcontinent Petroleum Corporation,  
Cosden Building,  
Tulsa, Oklahoma.

Gentlemen:

Following is a continuation of the log of our  
Melick Well No. 1, located in the Northeast Coener of Section 21,  
Township 33 South, Range 2 East, Summer County, Kansas;

|             |                    |
|-------------|--------------------|
| 1900 - 1910 | blue shale         |
| 1910 - 1920 | lime               |
| 1920 - 1985 | blue shale         |
| 1985 - 2010 | gray shale caving  |
| 2010 - 2035 | broken lime        |
| 2035 - 2050 | blue slate         |
| 2050 - 2065 | blue slate         |
| 2065 - 2075 | blue shale         |
| 2075 - 2095 | lime               |
| 2075 - 2085 | l B. W.            |
| 2095 - 2180 | blue slate         |
| 2180 - 2193 | sand dry           |
| 2193 - 2240 | blue shale         |
| 2240 - 2243 | lime               |
| 2243 - 2290 | blue shale         |
| 2290 - 2330 | sand H. F. W. 2310 |

Respectfully submitted,

HELMERICH & PAYNE, INC.

BY

W. H. Helmerich

Tulsa, Oklahoma.  
May 24, 1928.

Mid-Continent Petroleum Corporation,  
Cosden Building,  
Tulsa, Oklahoma.

Gentlemen:

Following is a continuation of the log of our Melick  
Well No. 1, located in the Northeast Corner of Section 21,  
Township 33 South, Range 2 East, Sumner County, Kansas:

|             |                                       |
|-------------|---------------------------------------|
| 2380 - 2370 | sand                                  |
| 2370 - 2405 | blue slate                            |
| 2405 - 2435 | blue shale                            |
| 2435 - 2475 | blue slate                            |
| 2475 - 2555 | blue shale                            |
| 2555 - 2645 | blue slate                            |
| 2645 - 2690 | blue shale                            |
| 2690 - 2775 | Layton sand                           |
|             | Good show oil and<br>gas at 2710      |
| 2735 - 2750 | 5 Bailer wtr. per hr.                 |
| 2775 - 2790 | sandy shale                           |
| 2790 - 2840 | black slate                           |
| 2840 - 2850 | lime                                  |
| 2850 - 2860 | gray <del>lime</del> <sup>black</sup> |
| 2860 - 2865 | rainbow show of oil                   |
| 2860 - 2875 | white lime                            |
| 2875 - 2877 | blue shale                            |
| 2877 - 2895 | lime                                  |
| 2895 - 2900 | sandy lime H.F.W.                     |

Respectfully submitted,

HELMERICH & PAYNE, INC.

BY

*W. H. Helmerich*

Tulsa, Oklahoma.  
May 31, 1928.

Mid-continent Petroleum Corporation,  
Cosden Building,  
Tulsa, Oklahoma.

Gentlemen;

Following is a continuation of the log of our Melick  
Well No. 1, located in the Northeast Corner of Section 21,  
Township 33 South, Range 2 East, Sumner County, Kansas:

|             |                  |
|-------------|------------------|
| 2900 - 2925 | sand hard        |
| 2925 - 2945 | gray lime        |
| 2945 - 2960 | lime             |
| 2960 - 2970 | lime hard        |
| 2970 - 2985 | white lime sandy |
| 2985 - 3005 | lime             |
| 3005 - 3010 | blue shale       |
| 3010 - 3025 | blue slate       |
| 3025 - 3035 | blue shale       |
| 3035 - 3045 | slate            |
| 3045 - 3055 | lime             |

Respectfully submitted,

HELMERICH & PAYNE, INC.

BY

H. H. Helmerich

Tulsa, Oklahoma.  
June 9, 1928.

Midcontinent Petroleum Corporation,  
Cosden Building,  
Tulsa, Oklahoma.

Gentlemen:

Following is a continuation of the log of our Melick  
Well No. 1, located in the Northeast Corner of Section 21,  
Township 33 South, Range 2 East, Summer County, Kansas;

|             |                    |
|-------------|--------------------|
| 3055 - 3065 | lime bailing water |
| 3065 - 3075 | black slate        |
| 3075 - 3110 | lime               |
| 3110 - 3135 | broken lime        |
| 3135 - 3150 | black shale        |
| 3150 - 3155 | lime hard          |
| 3155 - 3215 | slate              |
| 3215 - 3225 | lime               |
| 3225 - 3265 | black shale        |
| 3265 - 3285 | white lime         |
| 3285 - 3290 | show of oil        |
| 3285 - 3310 | chat               |
| 3310 - 3345 | lime               |
| 3345 - 3360 | lime hard          |

Respectfully submitted,

HELMERICH & PAYNE, INC.

BY W. H. Helmerich