

KESSLER & THIER, INC.  
Gustafson No. 1.

SEC. 27 T.20 R.16W  
SWc SW  
330' fr WL 440' N SL

County. Pawnee

Total Depth. 4140'  
Comm. 7-16-36 Comp. 8-26-36  
Shot or Treated.  
Contractor.  
Issued. 9-12-36

# Rotary Tools.

## CASING:

16 " 135' Left in.  
10 $\frac{3}{4}$ " 775' " " "

Elevation. 2033

Production. Dry

Figures Indicate Bottom of Formations.

|                       |      |                          |      |
|-----------------------|------|--------------------------|------|
| red rock              | 60   | anhydrite                | 1490 |
| sand water            | 105  | shale blue               | 1540 |
| red rock              | 160  | shale & salt             | 1860 |
| sand                  | 200  | anhydrite & salt         | 1870 |
| red rock              | 230  | anhydrite                | 1900 |
| sand                  | 250  | anhydrite & shale        | 1995 |
| sand & red rock       | 260  | red rock                 | 2000 |
| sand                  | 270  | lime                     | 2010 |
| sand & red rock       | 280  | shale blue               | 2030 |
| sand & brkn shale     | 290  | lime & shale             | 2085 |
| sand                  | 300  | brkn red rock & shale    |      |
| red rock              | 310  | blue                     | 2115 |
| sdv shale             | 340  | lime Ft. Riley           | 2135 |
| shale blue            | 355  | red rock                 | 2140 |
| brkn lime             | 363  | brkn lime                | 2155 |
| shale blue            | 370  | lime                     | 2218 |
| sdv lime              | 385  | shale blue               | 2225 |
| sdv shale             | 390  | Florence Flint           |      |
| lime                  | 400  | cherty lime              | 2260 |
| sdv shale             | 432  | red rock & lime          | 2290 |
| sand Artesian water   | 490  | shale blue               | 2297 |
| shale red             | 500  | lime                     | 2315 |
| sand                  | 520  | red rock                 | 2320 |
| lime                  | 525  | lime                     | 2340 |
| sand Artesian water   | 589  | brkn lime & shale        | 2350 |
| red rock              | 630  | lime                     | 2395 |
| sand                  | 650  | brkn lime & shale        | 2665 |
| shale blue            | 660  | shale blue               | 2865 |
| shale red             | 690  | shale blue & lime        | 2915 |
| shale red & sand      | 700  | shale blue               | 2945 |
| sdv shale red         | 770  | lime & shale             | 2960 |
| red rock & shale blue | 800  | shale blue               | 3045 |
| red rock & sand       | 820  | lime & shale             | 3175 |
| red rock              | 880  | brkn lime                | 3335 |
| red rock & sand       | 890  | lime                     | 3400 |
| red rock              | 920  | lime & shale             | 3470 |
| red rock & sand       | 960  | lime                     | 3483 |
| red rock              | 1000 | shale blue               | 3488 |
| red rock & sand       | 1030 | Top Lansing.             |      |
| red rock              | 1048 | lime                     | 3555 |
| anhydrite             | 1085 | lime Cored(3555-73)      | 3663 |
| red rock              | 1115 | lime & shale             | 3705 |
| anhydrite             | 1118 | red & green shale &      |      |
| red rock              | 1145 | chat conglomerate        | 3809 |
| anhydrite             | 1148 | dolomite & lime          | 3834 |
| red rock              | 1170 | porous dolomite(No show) |      |
| red rock & anhydrite  | 1180 |                          | 3849 |
| anhydrite             | 1190 | lime                     | 4090 |
| shale blue & red rock | 1210 | sdv dolomite             | 4140 |
| red rock              | 1250 | Total Depth.             |      |
| gyp shells            | 1280 |                          |      |
| shale blue            | 1290 |                          |      |
| red rock              | 1310 |                          |      |
| shale blue            | 1322 |                          |      |
| anhydrite             | 1330 |                          |      |
| shale blue            | 1350 |                          |      |
| gyp shells            | 1370 |                          |      |
| shale blue            | 1470 |                          |      |

## LOCATIONS OF VARIOUS FORMATIONS

Artesian water sand,  
First Break 432-589  
Red Shale 589-634  
brkn artesian  
sand 634-650

Anhydrite Top 1048  
Ft. Riley Top 2110  
Base Florence Flint 2260  
Lansing Top 3488  
Base 3705  
Conglomerate Top 3705  
Base 3808  
Arbuckle(Siliceous)  
Top 3808  
Sdy Dolomite Top 4090  
Still in same formation  
at total depth of 4140

## CORING RECORD

Cored- 3555-73 7' Rec.  
Very porous lime,  
salt water  
3817-27 8 $\frac{1}{2}$ ' Rec.  
Porous lime  
3834-49 6' Rec.  
Dolomite & chert

3608  
3488  
320