

On location at 11:10 am @ 3006 ft. 9/9/2019

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY Darrah Oil  
 LEASE Sandy 280 (#1)  
 FIELD \_\_\_\_\_  
 LOCATION NE/SW/SW  
 SEC 28 TWP 20S RGE 13W  
 COUNTY Barton STATE Kansas  
 CONTRACTOR Murfin #108 (WV #8)  
 SPUD 9/6/2019 COMP 9/12/2019  
 RTD 3660 LTD \_\_\_\_\_  
 MUD UP \_\_\_\_\_ TYPE MUD Chemical

ELEVATIONS  
 KB 1892  
 DF \_\_\_\_\_  
 GL 1887  
 Measurements Are All  
 From KB

CASING  
 SURFACE 865 @ 302'  
 PRODUCTION None  
 ELECTRICAL SURVEYS  
GRN, DF, Micro, Sonic

### FORMATION TOPS AND STRUCTURAL POSITION

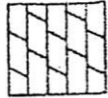
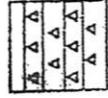
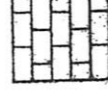

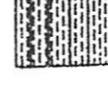
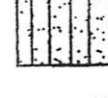
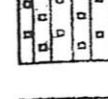
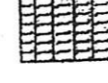
| FORMATION | SAMPLE TOP | ELECTRIC LOG TOP | SUB-SEA DATUM | STRUCTURAL POSITION |   |   |
|-----------|------------|------------------|---------------|---------------------|---|---|
|           |            |                  |               | A                   | B | C |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |
|           |            |                  |               |                     |   |   |

### REFERENCE WELLS FOR STRUCTURE

A \_\_\_\_\_  
 B \_\_\_\_\_  
 C \_\_\_\_\_

REMARKS

### LEGEND

-  Dolomite
-  Chert
-  Ool. Lime
-  Limestone
-  Carb sh
-  Shale
-  Sandstone
-  Salt
-  Anhydrite

REMARKS

OIL SHOWS

SAMPLE DESCRIPTIONS

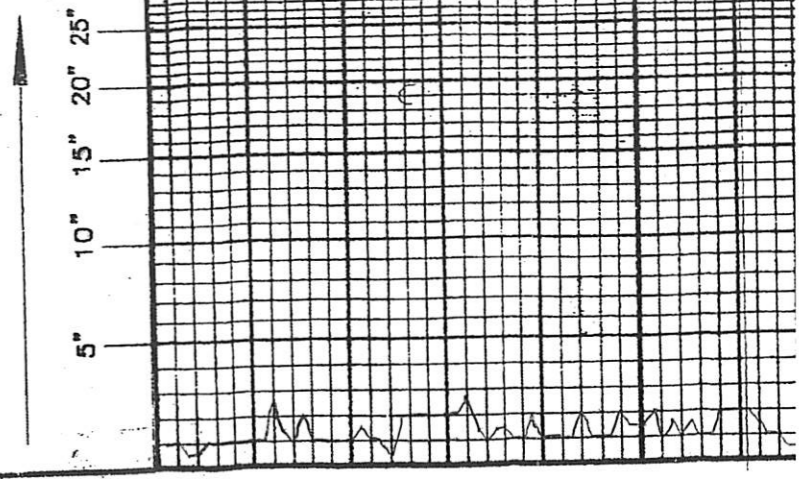
LITHOLOGY

DEPTH

2700'

DRILLING TIME IN MINUTES PER FOOT

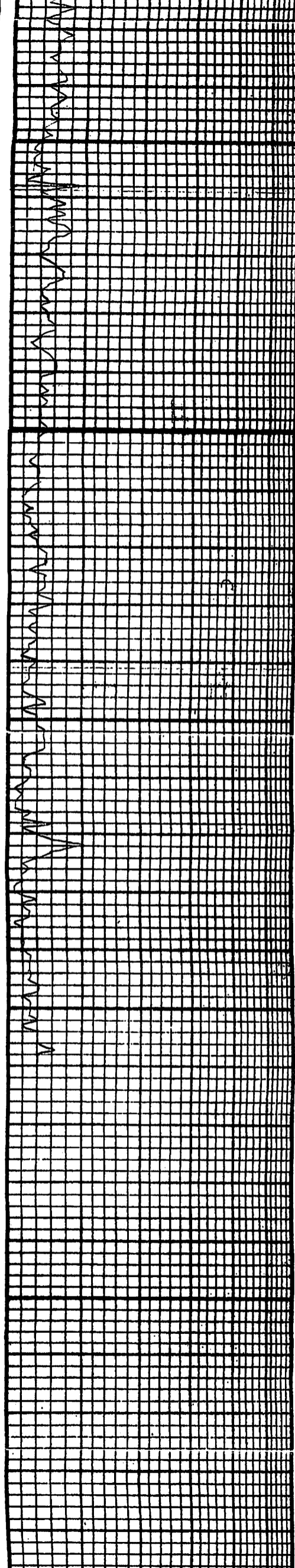
Rate of Penetration Decreases



50







3500'

CFS

50

CFS

CFS

CFS

CFS

3600'

50

CFS

Pore - 100 ft

Handwritten geological notes in the central column, including descriptions of shale, dolomite, and limestone layers.

Handwritten geological notes in the right column, providing further details and observations about the rock formations.