

MAY 19 1972

SE NE SW

34-8-19W

API # 15-163-20,431



DRILLER'S LOG

COMPANY: F & M Oil Co., Inc., 603 Union Center Bldg., Wichita, Kansas 67202  
 CONTRACTOR: Hellar Drilling Company, Inc., 339 Union Center Bldg., Wichita, Ks. 67202  
 LEASE: #1 Cerrow  
 LOCATION: SE NE SW 34-8S-19W, Rooks County, Kansas  
 COMMENCED: April 17, 1972  
 COMPLETED: April 25, 1972  
 CASING: Set 8 5/8" Surface Casing @ 218' w/150 sacks cement

DRY/ARB  
Elevation: 1992' KB

|           |  |
|-----------|--|
| 0-220     | Surface Soil & Post Rock                       |
| 220-1250  | Shale & Red Bed & Shells & Sand                |
| 1250-1615 | Shale & Red Bed & Shells & Sand - Salt Section |
| 1615-1865 | Shale & Lime                                   |
| 1865-1987 | Salt Section                                   |
| 1987-2030 | Lime & Shale (Ft. Riley)                       |
| 2030-2245 | Lime & Shale                                   |
| 2245-2455 | Shale & Lime                                   |
| 2455-2955 | Lime & Shale                                   |
| 2955-3184 | Lime (Topeka)                                  |
| 3184-3425 | Lime   |
| 3425-3445 | Cong. & Arbuckle                               |
| 3445-3460 | Lime   |
| 3460-3473 | Arbuckle                                       |
| 3473      | Rotary Total Depth                             |

LOG TOPS:

|              |      |
|--------------|------|
| Stone Corral | 1414 |
| Topeka       | 2942 |
| Heebner      | 3147 |
| Lansing      | 3188 |
| Atbuckle     | 3431 |

D & A

DST # 1 3157.3200  
 DST # 2 3215.3281  
 DST # 3 3325.3390

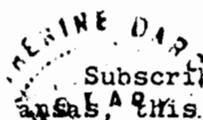
STATE OF KANSAS )  
 ) SS  
 COUNTY OF SEDGWICK )



I, D. L. Hellar, do hereby certify that the above and foregoing is a true and correct copy of the log of the #1 Cerrow, located in SE NE SW 34-8S-19W, Rooks County, Kansas, as reflected by the files of the Hellar Drilling Company, Inc.

HELLAR DRILLING COMPANY, INC.

By D. L. Hellar  
 President - D. L. Hellar



Subscribed and sworn to before me, a Notary Public, in and for Sedgwick County, Kansas, this 2nd day of May, 1972.