

CONTRACTOR'S WELL LOG

OPERATOR: Kansas Oil Corporation
 CONTRACTOR: Spartan Drilling Corporation
 WELL NAME: #1 D. Hillman
 LOCATION: NW NW NE Sec. 26-T11S-R22W Trego County, Ks.
 API NO.: 15-195-20,778
 COMMENCED: March 21, 1981
 COMPLETED: April 1, 1981

Drilled 313' of 12 1/4" hole. Ran 7 joints of 8 5/8" new 20# casing. Set at 306' with 190 sacks of common cement, 2% gel - 3% CaCl. Cement did circulate. Plug was down at 7:45 pm, March 21, 1981.

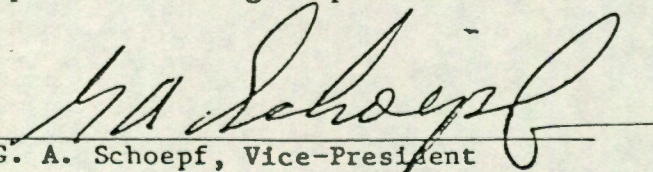
| FORMATION | TOP' | BOTTOM' |
|----------------|------|---------|
| Sand and Shale | 0 | 313 |
| Shale | 313 | 1476 |
| Shale and Sand | 1476 | 1724 |
| Lime and Shale | 1724 | 2367 |
| Shale | 2367 | 2905 |
| Shale and Lime | 2905 | 3368 |
| Lime and Shale | 3368 | 3620 |
| Lime | 3620 | 3787 |
| Lime and Shale | 3787 | 3910 |
| Lime | 3910 | 4025 |

RTD 4025'. Set 1st plug at 1250' with 70 sacks, 2nd plug at 300' with 30 sacks, 3rd plug at 40' solid bridge with 10 sacks, mousehole with 5 sacks, rathole with 5 sacks. Cemented with 50/50 pozmix, 4% gel - 2% CaCl. Plug was down at 7:00 p.m. April 1, 1981.

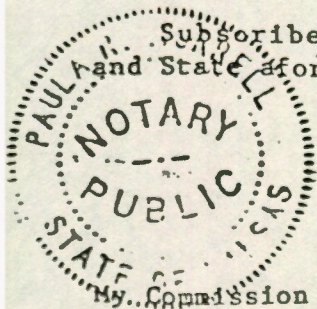
STATE OF KANSAS, COUNTY OF SEDGWICK, SS:

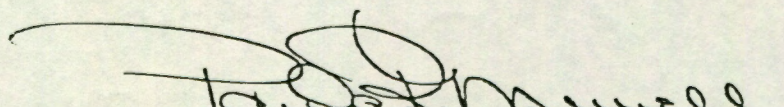
I, G. A. Schoepf, Vice-President, Spartan Drilling Corporation, do hereby state that the above is a true and correct copy of the Driller's Log for the #1 D. Hillman located in Trego County, Kansas.

Spartan Drilling Corporation


 G. A. Schoepf, Vice-President

Subscribed and sworn to before me, a Notary Public, in and for the County and State aforesaid, as of this 21st day of April, 1981.




 Paula R. Murrell - Notary Public

March 16, 1985