

508 East Murdock
Wichita, Kansas

OCT 25 1969

ROTARY DRILLING LOG

34-9S-19W

15-103-20245

Operator: Patton Oil Co.
SPARKS #1
SE NE SW Sec. 34-9S-19W
Rooks County, Kansas

Contractor: Rains & Williamson
Oil Co., Inc.
Commenced: 9-4-69
Completed: 9-12-69
Casing: 8-5/8"/214'/150 sx.

Formations

Dry

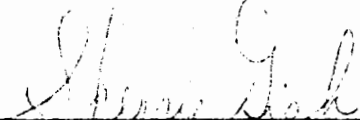
Surface Dirt	21'
Water Sand	75'
Shale with Lime Streaks	221'
Shale and Shells	660'
Sand	695'
Shale	860'
Shale with Sand	982'
Shale w/Sand Streaks	1020'
Dakota Sand	1245'
Shale with Shells	1575'
Anhydrite	1596'
Shale with Shells	1867'
Shale with Lime Streaks	2235'
Shale and Lime	2507'
Shale	2760'
Lime and Shale	3268'
Lime	3310'
Lime and Shale	3400'
Lime	3680'
Chert, Lime, Shale	3710'
Rotary Total Depth (D & A)	3710'

We certify the above log is true and correct to the best of our knowledge and belief.

RAINS & WILLIAMSON OIL CO., INC.


Wilson Rains

Subscribed and sworn to before me, a Notary Public within and for the State of Kansas, County of Sedgwick, this 15th day of September, 1969.


Sherry Gish Notary Public