



March 15, 1947

DRILLING LOG

Gulf Oil Corporation  
P.O. Box 661  
Tulsa 2, Oklahoma

Berwick, Spruill, Harms, Inc.  
Box 184  
Great Bend, Kansas

Lease: Tammen #1

County: Pawnee, Kansas  
Section: 9-20-16  
Location: NE 1/4 NE 1/4 NE 1/4

Elevation: 2026  
Lansing: 3443  
Con: 3711  
Arbuckle: 3754

Total Depth: 3819'

Comm: February 18, 1947

Comp: March 4, 1947

Casing 8 5/8" 1060'

Contractor: Berwick, Spruill, Harms, Inc.  
Box 184  
Great Bend, Kansas

Rotary T.D.: 3819'

Figures indicate bottom of formations:

0	to	80	Surface Clay & Shale
80		475	Shale
475		595	Sand
595		765	Shale & Shells
765		865	Sand & Shale
865		1055	Shale & Shells
1055		1090	Anhydrite
1090		1325	Shale & Shells
1325		1345	Salt
1345		1910	Lime & Shale
1910		1975	Sand & Lime
1975		2030	Sand
2030		2230	Shale & Shells
2230		2295	Lime
2295		2495	Lime & Shale
2495		2620	Broken Lime
2620		2765	Lime & Shale
2765		2670	Shale
2870		3275	Lime & Shale
3275		3309	Broken Lime
3309		3330	Sand & Lime
3330		3455	Lime & Shale
3455		3492	Lime
3492		3748	Lime & Shale
3748		3819	Lime



STATE OF KANSAS )  
COUNTY OF BARTON)

I, the undersigned, being duly sworn on oath state that the above statement and log is true and correct record and log of the well drilled at the location above described.

BERWICK, SPRUILL, HARMS, INC.

By *M. Harms*

Subscribed and sworn to before me this 27th day of April 1947.

*David Smith*

My Commission Expires:

December 4, 1950

**PLUGGING**  
FILE SEC 9 T 20 R 16 W  
BOOK PAGE 101 LINE 36