

L O G

COMPANY: EMPIRE DRILLING COMPANY
 CONTRACTOR: EMPIRE DRILLING COMPANY
 WELL: HICKMAN #3
 LOCATION: S/2 NE NE, SEC. 17-8-22
 GRAHAM COUNTY, KANSAS
 COMMENCED: 8-16-55
 COMPLETED: 8-22-55

0	TO	195	SURFACE
195	TO	1460	SHALE AND SAND
1460	TO	1716	SHALE AND SHELLS
1716	TO	1747	ANHYDRITE
1747	TO	2345	SHALE AND SHELLS
2345	TO	2675	SHALE AND LIME
2675	TO	2850	SHALE AND SHELLS
2850	TO	3405	LIME AND SHALE
3405	TO	3528	LIME
3528			R.T.D.

SET 8 5/8" SURFACE CASING AT 171' WITH 115 SACKS OF CEMENT.

ELEVATION: 2099 K.B.

TOPS: ANHYDRITE 1716'; HEEBNER 3316'; TORONTO 3335'; LANSING 3352'; R.T.D. 3528'.

D.S.T. #1 3512' TO 3528'.

RAN 5 1/2" CASING AT 3523' WITH 75 SACKS OF CEMENT.

C E R T I F I C A T I O N

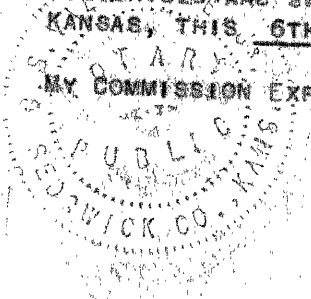
I, DAN J. KORNFELD, DO HEREBY CERTIFY THAT THE ABOVE AND FOREGOING IS A TRUE AND CORRECT COPY OF THE LOG ON THE HICKMAN #3, S/2 NE NE, SECTION 17, TOWNSHIP 8 SOUTH, RANGE 22 WEST, GRAHAM COUNTY, KANSAS, AS REFLECTED BY THE FILES OF THE EMPIRE DRILLING COMPANY.

Dan J. Kornfeld
 DAN J. KORNFELD

SUBSCRIBED AND SWORN TO BEFORE ME A NOTARY PUBLIC WITHIN AND FOR SEDGWICK COUNTY, KANSAS, THIS 6TH DAY OF SEPTEMBER, 1955.

MY COMMISSION EXPIRES DECEMBER 10, 1956

[Signature]
 NOTARY PUBLIC



JAN 21, 1956