

State Geological Survey
WICHITA, BRANCH

DRILLERS' WELL LOG

DATE COMMENCED: December 12, 1973
DATE COMPLETED: December 17, 1973

0 - 40' Clay & Post Rock
40 - 100' Clay & Sand
100 - 115' Shale
115 - 212' Red Bed
212 - 427' Shale
427 - 430' Hard Sand
430 - 542' Red Bed
542 - 570' Anhydrite
570 - 718' Red Bed
718 - 1190' Shale
1190 - 1358' Shale & Lime
1358 - 1765' Lime & Shale
1765 - 2448' Shale
2448 - 2736' Lime
2736 - 2740' Shale
2740 - 2755' Shale & Lime
2755 - 2770' Lime
2770 - 2831' Shale
2831 - 3000' Lime

16-14-10W
15-053-20353
National Development Co.

HLAUS A-1

SE SE NE

Sec. 16-T14S-R10 W

Ellsworth County, Ks.

ELEVATION: 1745 K.B.

FORMATION DATA

ANHYDRITE	542
GRAND HAVEN LIME	2114
TARKIO	2196
ELMONT	2262
BURLINGAME	2338
HOWARD	2408
TOPEKA	2448
HEEBNER	2736
TORONTO	2755
DOUGLAS	2770
BROWN LIME	2831
KANSAS CITY	2850
RTD	3000

SURFACE PIPE: Set used 8-5/8"
28# pipe at 212' with 160 sacks
common, 2% gel and 3% cc.

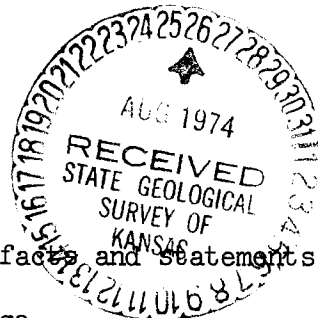
PRODUCTION CASING: Set used
4 1/2", 9.5# casing at 2999' with
250 sacks 50/50 pozmix, 18% salt.

RECEIVED
STATE CORPORATION COMMISSION
JUL 25 1974
CONSERVATION DIVISION
Wichita, Kansas

A F F I D A V I T

STATE OF KANSAS
COUNTY OF BARTON) ss.

Larry Curtis of lawful age does swear and state that the facts and statements
herein contained are true and correct to the best of his knowledge.



Subscribed and sworn to before me this 20th day of December 1973.

My Comm. Expires:

April 11, 1974

Larry Curtis
Notary Public