

ROTARY DRILLERS' LOG

OPERATOR: Graves Drilling Co., Inc.
910 Union Center
Wichita, Kansas 67202

DRILLING COMMENCED: 29 Sept. 1976

CONTRACTOR: Graves Drilling Co., Inc.
910 Union Center
Wichita, Kansas 67202

DRILLING COMPLETED: 6 Oct. 1976

CASING RECORD: 6 Jts. 226' of used 8-5/8"
cemented with 220 sacks;
144 Jts. 4518' of new 4-1/2"
cemented with 75 sacks

LOCATION: Warwick No. 2
C NE SW
Section 29-32S-12W
Barber County, Kansas

0 - 226 Red bed

226 - 1350 Red bed & shale

1350 - 1870 Shale

1870 - 2232 Shale & shells

2232 - 2440 Shale

2440 - 2660 Shale & shells

2660 - 3530 Shale & lime

3530 - 3827 Lime & shale

3827 - 3878 Shale & lime

3878 - 4240 Lime & shale

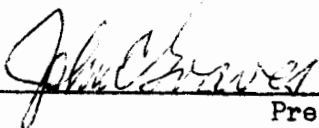
4240 - 4528 Lime

APR 07 1977

4528 RTD

I hereby certify the foregoing statements to be true and correct to
the best of my knowledge.

GRAVES DRILLING CO., INC.

By 
President

STATE OF KANSAS)
)
) SS:
WEDGWICK COUNTY)