

R O T A R Y D R I L L E R S ' L O G

OPERATOR: Graves Drilling Co., Inc. DRILLING COMMENCED: June 17, 1977
910 Union Center
Wichita, Kansas 67202

CONTRACTOR: Graves Drilling Co., Inc. DRILLING COMPLETED: June 24, 1977
910 Union Center
Wichita, Kansas 67202

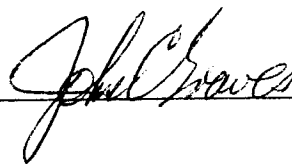
CASING RECORD: 5 Jts. 215' used 8-5/8" 28# LOCATION: Whelan No. 2
cemented with 175 sacks. W/2 SE NE
Section 29-31S-11W
Barber County, Kansas

0 - 215	Red bed
215 - 523	Red bed & shale
523 - 1530	Shale
1530 - 4222	Shale & lime
4222 - 4345	Lime
4345 - 4410	Lime & shale
4410 - 4420	Lime
4420	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)
)
SEDGWICK COUNTY)

ss.

Subscribed and sworn to before me, a Notary Public, this 28th day of June, 1977.


Betty Brandt

Notary Public

My commission expires:
May 9, 1979