

ROTARY DRILLERS' LOG

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

DRILLING COMMENCED: August 20, 1981

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

DRILLING COMPLETED: August 26, 1981

CASING RECORD: 10 Jts. 422' of new 8-5/8"  
cemented with 275 sacks.  
  
112 Jts. 4323' of new 4 1/2"  
cemented with 75 sacks.

LOCATION: Cunningham No. 1  
NE SE NE  
Section 10-32S-12W  
Barber County, Kansas

0 - 70 Sand  
70 - 785 Red bed & shale  
785 - 1550 Red bed  
1550 - 1784 Lime & shale  
1784 - 4325 Shale & lime  
4325 Rotary Total Depth

RECEIVED  
STATE CORPORATION COMMISSION  
SEP 10 1981  
CONSERVATION DIVISION  
Wichita, Kansas

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

Copy sent to:  
State Corporation Commission  
Kansas Geological Society  
Kansas Geological Survey

GRAVES DRILLING CO., INC.

By Petty Brandt  
Secretary-Treasurer

STATE OF KANSAS     )  
                              ) ss.  
SEDGWICK COUNTY    )

Subscribed and sworn to before me, a Notary Public, this 9th day of September, 1981.

Rebecca L. Matthews  
Rebecca L. Matthews     Notary Public

My commission expires: May 17, 1983.