

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

OPERATOR: Graves Drilling Co., Inc. DRILLING COMMENCED: December 9, 1980
910 Union Center
Wichita, Kansas 67202

CONTRACTOR: Graves Drilling Co., Inc. DRILLING COMPLETED: December 17, 1980
910 Union Center
Wichita, Kansas 67202

CASING RECORD: 5 Jts. 218' of used 8-5/8" LOCATION: Rider Unit No. 1
cemented with 200 sacks. SW SW NW
Section 12-32S-12W
131 Jts. 4328' of new 4½" Barber County, Kansas
cemented with 75 sacks.

0 - 60 Red bed and sand

60 - 642 Red bed

642 - 1393 Red bed & shale

1393 - 3017 Shale & lime

3017 - 3188 Lime & shale

3188 - 3549 Shale & lime

3549 - 3747 Lime & shale

3747 - 4083 Shale & lime

4083 - 4135 Lime & shale

4135 - 4320 Shale & lime

4320 - 4359 Lime & shale

4359 Rotary Total Depth

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 Betty Brandt
Secretary-Treasurer