

ROTARY DRILLERS' LOG

OPERATOR: Graves Drilling Co., Inc. DRILLING COMMENCED: November 25, 1975
910 Union Center
Wichita, Kansas 67202

CONTRACTOR: Graves Drilling Co., Inc. DRILLING COMPLETED: December 6, 1975
910 Union Center
Wichita, Kansas 67202

CASING RECORD: 6 Jts. 240' of 8 5/8" LOCATION: Bumgarner No. 1
cemented with 225 sacks C SE NE
Section 19-32S-11W
Barber County, Kansas

0 - 240	Sand & redbed
240 - 540	Redbed, shale & shells
540 - 1425	Shale
1425 - 1715	Shale & shells
1715 - 1846	Lime & shale
1846 - 3170	Shale & lime
3170 - 3500	Lime shale & sand
3500 - 3568	Sand
3568 - 3600	Lime
3600 - 3725	Lime & shale
3725 - 3885	Lime
3885 - 4000	Lime & shale
4000 - 4195	Lime
4195 - 4280	Lime, shale, and chert
4280 - 4340	Lime & chert
4340	Lime and chert
4340	RTD

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

GRAVES DRILLING CO., INC.