ROTARY DRILLERS' LOG

2-31-9W
15-077-20,325

OPERATOR: Edmiston Oil Company
First National Bank Building
Wichita, Kansas 67202

DRILLING COMMENCED: August 15, 1975

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

DRILLING COMPLETED: August 23, 1975

CASING RECORD: 5 JTs 215' 8-5/8"
cemented with 225 sacks
137 Jts 4489' 4½"
cemented with 125 sacks.

LOCATION: Miller Estate No. 1
NW SE SW
Section 2-31S-9W
Harper County, Kansas

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0 - 214	Red bed
214 - 1417	Shale & shells
1417 - 2000	Lime, shale & sand
2000 - 2240	Lime
2240 - 2580	Lime, shale & sand
2580 - 3120	Lime & shale
3120 - 3470	Lime, shale & sand
3470 - 3930	Lime
3930 - 4090	Lime & shale
4090 - 4352	Lime
4352 - 4380	Shale & lime
4380 - 4490	Chert
4490	Rotary Total Depth

RECEIVED
STATE GEOLOGICAL SURVEY OF KANSAS

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

GRAVES DRILLING CO., INC.

By Jack Graves
President

STATE OF KANSAS)
) SS
SEDGWICK COUNTY)

Subscribed and sworn to before me, a Notary Public, this 27th day of August, 1975

commission expires: May 9, 1979