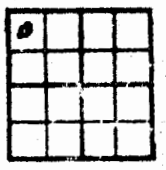
KANSAS GEOLOGICAL SOCIETY
Wichita, Kansas

6-33-9W
NW NW

KANSAS



API # 15-077-20,215

ROTARY DRILLERS' LOG

OPERATOR: Clinton Oil Company
217 North Water
Wichita, Kansas 67202

DRILLING COMMENCED: October 3, 1973

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

DRILLING COMPLETED: October 13, 1973

CASING RECORD: 7 Jts. 262' 8-5/8"
cemented with 225 sacks
108 Jts. 4341' 5-1/2"
cemented with 150 sacks

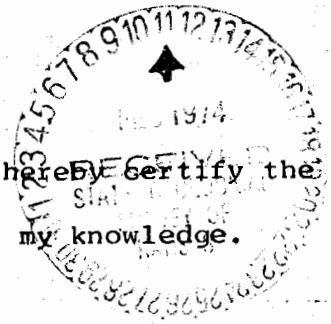
LOCATION: J. C. Hoath No. 1
NW NW
Section 6-33S-9W
Harper County, Kansas

ELEVATION: 1386 kb

0 -	10	Top soil & sand
10 -	262	Red rock & shale
262 -	1320	Shale & shells
1320 -	1595	Shale & lime
1595 -	1795	Lime & shale
1795 -	2170	Lime
2170 -	3385	Shale & lime
3385 -	3500	Sand & shale
3500 -	3540	Lime & shale
3540 -	3810	Shale & lime
3810 -	4075	Lime
4075 -	4180	Lime & shale streaks
4180 -	4320	Lime & shale
4320 -	4333	Lime
4333 -	4344	Chert
	4344	Rotary Total Depth

Log Tops

oread	3296
stal	3713
stal sd	3721
kc	3884
stak	4040
bkc	4105
cher	4250
miss ch	4321
miss sh	4337
por an	4339
td	4344



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

GRAVES DRILLING CO., INC.