DRILLER'S LOG

State Geological Survey
WICHITA

COMPANY: Abraxas Petroleum Corporation

SEC. 28 T. 12S R. 14W

LOC. NW SW SE

WELL NAME: Hopper #1

COUNTY: Russell

RIG NO. #4

TOTAL DEPTH 3120'

ELEVATION

COMMENCED: 12-20-78 COMPLETED: 1-2-79

CONTRACTOR: Rains & Williamson Oil Co., Inc.

CASING RECORD:

SURFACE: 8 5/8" @ 209' w/150 sx. common, 2% gel, 3% cc.

PRODUCTION: D&A

LOG

(Figures Indicate Bottom of Formations)

Sand & Shale	155
Shale, Sand & Shale	219
Shale & Redbed	640
Redbed	676
Redbed & Shale	1030
Shale	1485
Shale & Lime	1690
Lime & Shale	1890
Shale & Lime	2270
Lime	2590
Lime & Shale	2715
Shale	2945
Lime	3120
ROTARY TOTAL DEPTH	3120

STATE OF Kansas)
SS:
COUNTY OF Sedgwick)