15-065-21039
Released 11/2/80
21-7S-22W

State Geological Survey
WICHITA BRANCH

CONFIDENTIAL

DRILLERS LOG

No. 1-21 Worcester

CASING RECORD:

8 5/8" @ 315'
w/180 sx cement

4 1/2" @ 3,905'
w/125 sx cement

COMPANY: Graham-Michaelis Corporation

CONTRACTOR: Red Tiger Drilling Company

COMMENCED: July 18, 1978

COMPLETED: July 30, 1978

DESCRIPTION:

C SE/4 NW/4
Sec. 21-T7S-R22W
Graham County, Kansas

TOTAL DEPTH: 3,905'

ELEVATION: 2,313' KB

FORMATION	FROM	TO	REMARKS
ale	0	1360	
Shale & Red Bed	1360	1480	
Sand	1480	1695	
Shale	1695	1954	
Anhydrite	1954	1983	
Shale	1983	2263	
Shale w/Lime Streaks	2263	2540	
Shale & Lime	2540	2815	
Li & Shale	2815	3150	
Li	3150	3905	
RTD		3905	

I certify that this is a true and correct copy of the above log to the best of my knowledge.

RED TIGER DRILLING COMPANY

Gloria Fawcett
Gloria Fawcett

Subscribed and sworn to before me this 31st day of July, 1978.

Joyce A Hagermann
Notary Public

Joyce A. Hagermann
NOTARY PUBLIC
Sedgwick County, Kansas

RECEIVED