

State Geological Survey
WICHITA, BRANCH

DRILLERS LOG

No. 1 Smith

19-31-7W
API# 15-077-20,187

CASING RECORD:

8 5/8" @ 240'
w/175 sx cement

4 1/2" @ 4779.25'
w/225 sx cement

COMPANY: John E. Loughran

CONTRACTOR: Red Tiger Drilling Co.

COMMENCED: April 6, 1973

COMPLETED: April 21, 1973

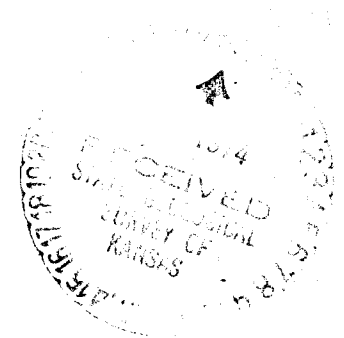
DESCRIPTION:

NW SE NE
19-31S-7W
Harper County,
Kansas

TOTAL DEPTH: 4787'

ELEVATION:

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Sand	0	55	
Redbed	55	350	
Shale & Shells	350	675	
Shale	675	1135	
Lime & Shale	1135	2683	
Shale & Lime Streaks	2683	2875	
Lime & Shale	2875	3638	
Sandy Lime & Shale	3638	3675	
Sand & Shale	3675	3735	
Shale & Lime	3735	3775	
Shale	3775	3875	
Lime	3875	4106	
Lime & Shale	4106	4135	
Lime	4135	4245	
Lime & Shale	4245	4300	
Lime	4300	4355	
Lime & Shale	4355	4380	
Mississippi	4380	4590	
Lime & Shale	4590	4621	
Mississippi	4621	4653	
Lime	4653	4675	
Shale & Lime	4675	4740	
Simpson Dolomite	4740	4750	
Shale	4750	4761	
Simpson Dolomite & Chert	4761	4775	
Dolomite	4775	4787	



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

RED TIGER DRILLING COMPANY

Alvin L. Bennett