

13-12-31W
C NE SW

13-12-31W

DRILLERS LOG

KNAPP "A" #1

API # 15-063-20,193

CASING RECORD:	OPERATOR: Pickrell Drilling Co.	DESCRIPTION:
282' w/8-5/8"	CONTRACTOR: John O. Farmer, Inc.	C NE SW
Cemented w/160 sx.	COMMENCED: August 22, 1973	Sec. 13-12-31
TOTAL DEPTH:	COMPLETED: September 1, 1973	Gove County, Ks.
4230'		ELEVATION: 2909'

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Shale	282	975	
Shale & Sand	975	2100	
Red bed	2100	2230	
Anhydrite	2400	2440	
Shale & Shells	2440	2605	
Shale	2605	2755	
Shale & Lime	2755	3725	
Lime & Shale	3725	3825	
Shale & Lime	3825	3910	
Lime & Shale	3910	3960	
Lime	3960	4230	
Total Depth	4230		



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

JOHN O. FARMER, INC.

By John O. Farmer

Witnessed and sworn to before me this 6th day of September 1973