

WILLIAMS-SOFTS, INC.  
801 West Murdock  
Wichita, Kansas

AUG 1 1970

GARDNER-JONES, INC.  
WICHITA, KANSAS  
DRILLERS' WELL LOG

29-13-20W  
C NW SW

SAUER #1

C NW SW Section 29-13-20W  
Ellis County, Kansas

Commenced: April 10, 1970  
Completed: April 18, 1970

Elev. 2325' KB

P. 2000 + 40% out  
air

OPERATOR - Alpina Drilling Co., Inc.

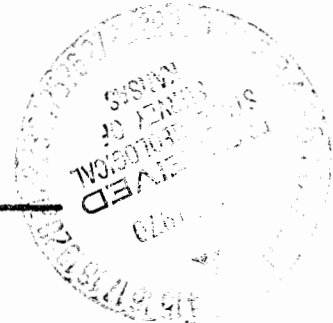
DEPTH		FORMATION	REMARKS
From	To		
0	150	Clay and shale	Ran 12 joints 8-5/8" casing, set @ 241' w/175 sacks cement. <i>Spanky 1656</i>
150	241	Shale	
241	930	Shale	<i>Lansing 3626</i>
930	1370	Shale and sand	
1370	1656	Red bed	<i>BKC 3876</i>
1656	1703	Anhydrite	
1703	2080	Shale and shells	<i>Arbuckle 3973</i>
2080	3620	Shale and lime	
3620	3975	Lime	Ran 175 joints 5-1/2" casing, set @ 3974-1/2" w/150 sacks cement. DV tool @ 1667' pumped in 150 sacks gel and 60 barrels oil.
3975	TD		

No. 1 Sauer

29-13-20W  
C NW SW

I, E. E. HALL certify this is a correct copy of the Driller's Log for the well drilled in the C NW SW Section 29-13-20W, Ellis County, Kansas, to the best of my knowledge and belief.

*E. E. Hall*  
E. E. HALL



STATE OF KANSAS )  
                          ) SS  
COUNTY OF SEDGWICK )

Before me, the undersigned, a Notary Public within and for said County and State, on this 20 day of April, 1970, personally appeared E. E. Hall to me personally known to be