

MAY 9 1970

21-14-10W  
W/2 NE SW  
21-14-10W

DRILLERS LOG  
VOPAT "A" NO. 2

CASING RECORD:  
8-5/8" @ 296'  
w/175 sax cement  
TOTAL DEPTH:  
2905'

OPERATOR: Will P. Ash  
CONTRACTOR: Sage Drilling Co., Inc.  
COMMENCED: January 9, 1970  
COMPLETED: January 17, 1970

DESCRIPTION:  
W $\frac{1}{2}$  NE SW  
Sec. 21-14S-10W  
Ellsworth Co., Kansas  
ELEVATION: 1688 KB  
PMP 99 BOPD, NW  
GR 37

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Shale & Sand	0	43	
Shale, Sand & Shells	43	302	
Shale	302	322	
Pyrite	322	323	✓
Shale	323	369	
Sand & Pyrite	369	371	✓
Shale	371	497	
Anhydrite	497	529	
Shale	529	565	
Shale, Shells & Lime	565	1280	
Lime & Shale	1280	1330	
Shale, Salt & Lime	1330	1540	
Shale & Lime	1540	1740	
Lime & Shale	1740	1940	
Shale & Lime	1940	2170	
Lime	2170	2176	
Lime & Shale	2176	2215	
Shale & Lime	2215	2380	
Lime & Shale	2380	2645	
Lime	2645	2905	5 $\frac{1}{2}$ " @ 2903' w/165 sax

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

SAGE DRILLING CO., INC.

By Wayne W. Kahmeyer  
Wayne W. Kahmeyer



Subscribed and sworn to before me this 20th day of January, 1970.