

STERLING DRILLING COMPANY  
P. O. Box 129  
Sterling, Kansas 67579

WELL LOG ..... HAWLEY "B" 1-13  
Located: 440' FNL; 440' FWL, NW/4, Section 13-24S-17W,  
Edwards County, Kansas

OWNER: F. G. Holl  
ROTARY DRILLING CONTRACTOR: Sterling Drilling Company

COMMENCED: May 27, 1980  
COMPLETED: June 2, 1980

TOTAL DEPTH: 4420'

<u>LOG</u>	<u>CASING RECORD</u>
0 - 80 Sand, Soil, Clay	Ran 6 joints new 8 5/8" casing. 261.27' set at 273' K.B. with 225 sacks 60/40
80 - 276 Shale	Pozmix with 3% cc. Plug down at 11:30 PM, 5-27-80, by Howco.
276 - 1082 Red Beds and Sand	
1082 - 1096 Anhydrite	
1096 - 1540 Shale	
1540 - 2125 Shale and Shells	
2125 - 3700 Lime and Shale	
3700 - 3915 Lime	
3915 - 4299 Lime and Shale	
4299 - 4322 Miss. Chert	
4322 - 4420 Lime	Ran 7 joints used 10.5#, 4 1/2' OD casing and 111 joints new 10.5#, 4 1/2" OD casing. 4409.43' set at 4418' K.B. Cemented with 175 sacks Regular Mix. Plug down at 11:00 PM, 6-2-80, by Howco.

Deviation Surveys: 1 1/4° at 2142'  
1 1/2° at 4322'