

STERLING DRILLING CO.

BOX 129

STERLING, KANSAS 67579

WELL LOG - - - - - DUTTON #4-17

Located: SE SW NE, Section 17-24S-16W, Edwards County,
Kansas

OWNER: F. G. Holl

ROTARY DRILLING CONTRACTOR: Sterling Drilling Company

COMMENCED: November 14, 1984

COMPLETED: November 20, 1984

TOTAL DEPTH: 4384'

<u>LOG</u>	<u>CASING RECORD</u>
0 - 90 Surface Soil and Sand	Ran 7 joints new 8 5/8", 23# casing. 285.96' pipe set at 298' K.B.
90 - 301 Clay - Shale	Cemented with 225 sacks 60/40 Pozmix with 3% cc. Plug down at 12:30 PM, 11-14-84, by Howco.
301 - 680 Shale and Sands	
680 - 1099 Shale	
1099 - 1111 Anhydrite	
1111 - 2089 Shale and Lime Stringers	
2089 - 4384 Lime and Shale	Ran 107 joints 4 1/2" OD casing. 4371.72' pipe set at 4382' K.B. Cemented with 100 sacks Howco Lite and 125 sacks 50/50 Pozmix plus our regular additives. Plugged rathole. Plug down at 5:15 AM, 11-20-84, by Howco.

Deviation Surveys: 1 1/2° at 2089'
1° at 4281'