## STERLING DRILLING CO.

## BOX 129

## STERLING, KANSAS 67579

WELL LOG - - - - - MALM #4-14

Located: NE NW NE, Section 14-24S-17W, Edwards County,

Kansas

OWNER: F. G. Holl

ROTARY DRILLING CONTRACTOR: Sterling Drilling Company

COMMENCED: July 26, 1984 COMPLETED: August 1, 1984

TOTAL DEPTH: 4485'

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0 - 90 Surface Soil and Sand

90 - 268 Clay and Shale

268 - 578 Shale and Sand

578 - 1110 Shale, Sand and Red Bed

1110 - 1127 Anhydrite

1127 - 1650 Shales

1650 - 4260 Lime and Shale

4260 - 4365 Chert, Lime

4365 - 4485 Lime and Shale

## CASING RECORD

Ran 6 joints new 8 5/8", 23# casing. 252.95' pipe set at 265' K.B. Cemented with 210 sacks 60/40 Pozmix plus 3% cc. Plug down at 1:00 PM, 7-26-84, by Howco.

Ran 109 joints 4 1/2", 10.5# casing. 11 joints were used. 4461.55' pipe set at 4471' K.B. 10 ft. off bottom. Cemented with 100 sacks Howco Lite, followed with 125 sacks 50/50-Pozmix, plus our regular additives. Plugged rathole with 15 sacks and water well with 5 sacks. Plug down at 5:15 AM, 8-1-84, by Howco.

Deviation Surveys: 1° at 2194' 1 1/4° at 4365'