

Sterling Drilling Company, Rig #4

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SAMPLE LOG

Rugan "G" 1-2

LOCATION: 200' N. & 90' W. of C Se Nw Sw Section 2 T 21s R 11w
API: 15-185-230920000 Stafford County, Kansas

OWNER: F.G. Holl Company, L.L.C.
CONTRACTOR: Sterling Drilling Company, Rig #4

COMMENCED: 12-Dec-99
COMPLETED: 20-Dec-99

TOTAL DEPTH: **DRILLER** 3500 FEET
LOGGER 3492 FEET

Ground Elevation: 1752
KB Elevation: 1761

LOG

0 -	175 FEET	Top Soil and Sand
175 -	462 FEET	Shale
462 -	494 FEET	Anhydrite
494 -	3500 FEET	Limestone, Shale and Dolomite

CASING RECORDS

Surface Casing Data:

Spud @ 8:45 am on 12-12-99. Drilled 12-1/4" hole to 225'. Ran 5 joints of 8-5/8" surface casing 210.22' set at 222' KB. Cemented with 225 sacks 60/40 Poz, 2% Gel, 3% CC, 1/4 Flowseal. Plug down at 12:45 am on 12-12-99 by Acid Service. Good returns. Ticket # 02290.

Production Casing:

Ran 83 joints of 5-1/2" casing. Set at 3485' KB. Cemented with 175 sacks 50/50 Poz and 50 sacks lite. Plugged rathole with 15 sacks and mousehole with 10 sacks. Plug down at 2:30am on 12-20-1999 by Acid Services. Ticket # 1853. Centralizers on jts # 3,4,5,7,8,11. Plugged 67' water well with 10 sacks cement and cut-off 3' below ground level.

DEVIATION SURVEYS

Missurn	degree(s) at	225	feet
2	degree(s) at	3045	feet
3-1/4	degree(s) at	3140	feet
2	degree(s) at	3355	feet
2	degree(s) at	3385	feet
1-3/4	degree(s) at	3500	feet