

# Sterling Drilling Company, Rig #4

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## SAMPLE LOG

## Lemon Trust 1-16

**LOCATION:** Sw Ne Section 16 T 30s R 13w  
**API:** 15-007-22708-0000 Barber County, Kansas

**OWNER:** F.G. Holl Company, L.L.C.

**COMMENCED:** 03-Jun-02

**CONTRACTOR:** Sterling Drilling Company, Rig #4

**COMPLETED:** 14-Jun-02

**TOTAL DEPTH:** **DRILLER** 4795 **FEET**  
**LOGGER** 4794 **FEET**

**Ground Elevation:** 1837

**KB Elevation:** 1846

## LOG

0 -	2 FEET	Top Soil
2 -	17 FEET	Clay
17 -	23 FEET	Fine Sand
23 -	25 FEET	Clay
25 -	71 FEET	Sand and Gravel
71 -	82 FEET	Clay
82 -	786 FEET	Redbeds
786 -	803 FEET	Anhydrite
803 -	2068 FEET	Redbeds, Shales and Salt
2068 -	2068 FEET	Limestone, Shale and Dolomite
2068 -	4795 FEET	Arbuckle

## CASING RECORDS

### Conductor Casing-13-3/8"

Spud @ 7:15 am on 06/03/02. Drilled 17-1/4" hole to 100'. Ran 2 joints of new 48# 13-3/8" conductor casing, tally 84.31' set at 95.31' KB. Cemented with 125 sx 60/40 Poz, 3% CC, and 1/4# Celloflake. Cement did circulate. Plug down at 9:45 am on 06/03/02. Acid Services ticket # 4881.

### Surface Casing-8-5/8"

Drilled out from under 13-3/8" casing with 12-1/4" bit to 1015'. Ran 22 joints of new 23# 8-5/8" surface casing, tally 998.15' set at 1009.15' KB. Cemented with 215 sx A-Con, 3% CC, 1/4# Cello-flake/sx, and 200 sacks common, 3% CC, 1/4# Cello-flake/sx. Plug down at 3:45 pm on 06/04/02 by Acid Services. Ticket # 4929. Cement did circulate.

### Production Casing

Ran 112 joints of used 10.5# 4-1/2" casing. Tallied 4769.27' + 9' landing jt. set at 4778.27' KB. Cemented with 125 sacks A-Serv light and 150 sacks of 50/50 Poz. Plug down at 11:45 pm on 6/14/02 by Acid Services. Ticket # 4934. Plugged rathole with 15 sx, mousehole 10sx using A-Serv-Lite. Scratchers on #7,8,9,16,17,18. Basket on # 5,6,7,8,9,13,15,16,17,18. Cement basket on #4 4624'.

## DEVIATION SURVEYS

1/4 degree(s) at	100	feet
1 degree(s) at	1015	feet
1/8 degree(s) at	4150	feet
1 degree(s) at	4300	feet
1 degree(s) at	4403	feet
1/2 degree(s) at	4685	feet