

AUSTIN B. KLAUS



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Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Gage #1

Location: Russell County

License Number: API # 15-167-23,930-0000 Region: Kansas Spud Date: 12/18/13 Drilling Completed: 1/9/14

Spud Date: 12/18/13 Drilling Completed Surface Coordinates: Section 1 Township 15 South Range 14 West

695' FSL & 690' FEL

Bottom Hole Vertical well with minimal deviation, same as above

Coordinates:

Ground Elevation (ft): 1,862'

Logged Interval (ft): 2,300'

To: RTD

K.B. Elevation (ft): 1,870'

Total Depth (ft): 3,400'

Formation: Lansing

Type of Drilling Fluid: Chemical (Andy's)

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: John O. Farmer, Inc.

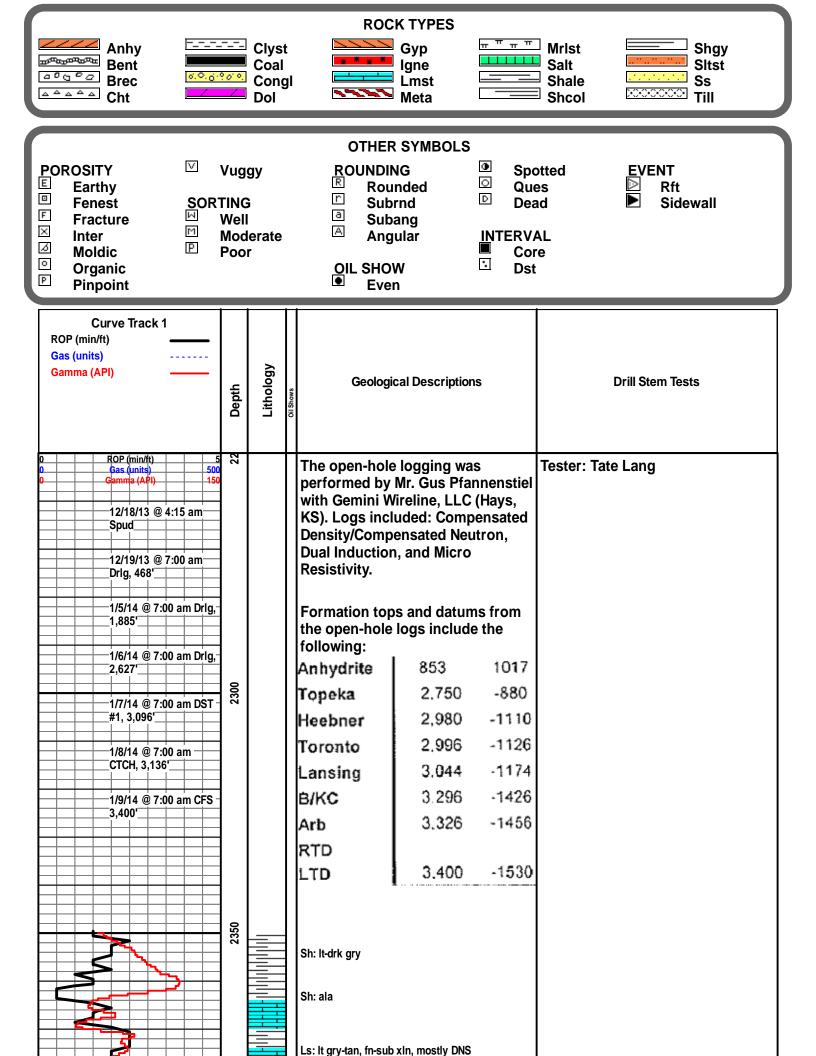
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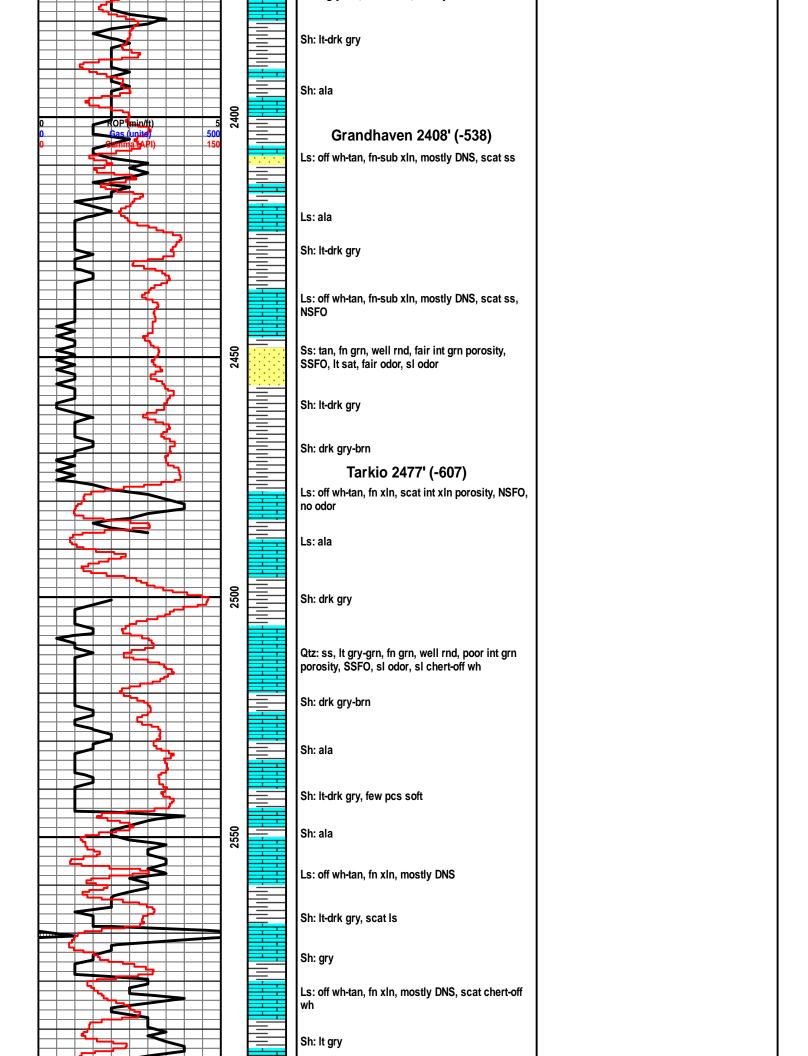
Russell, KS 67665-0352

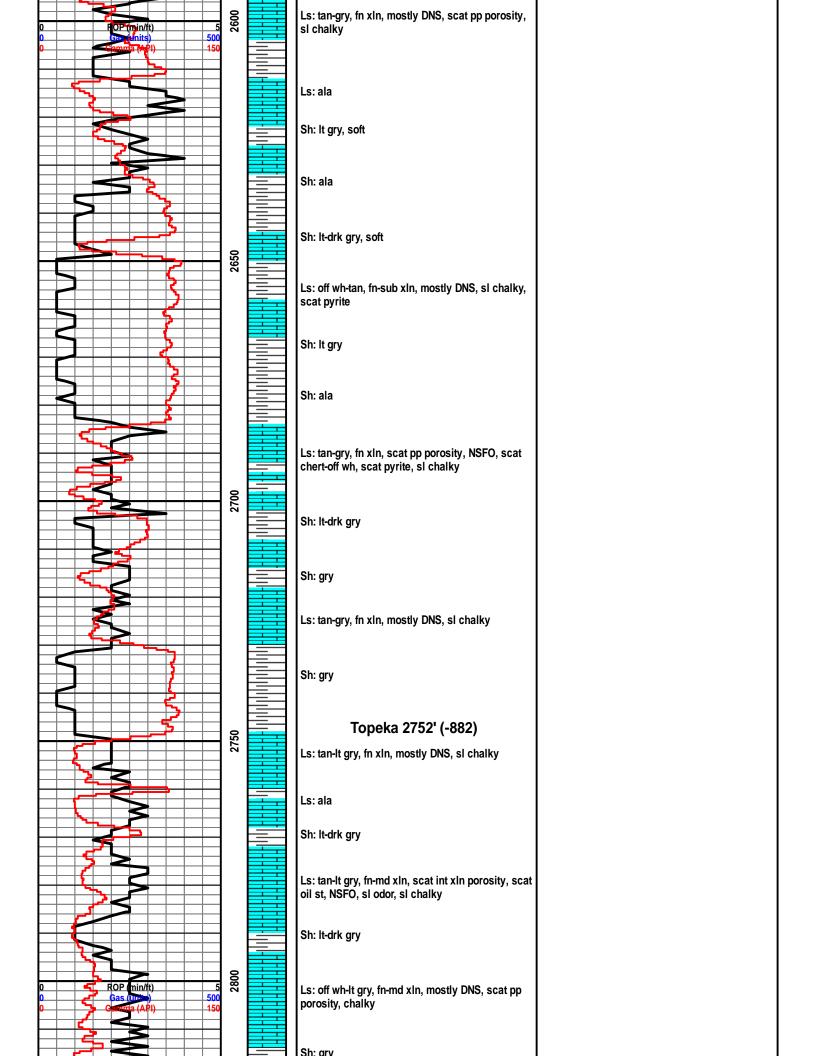
Comments

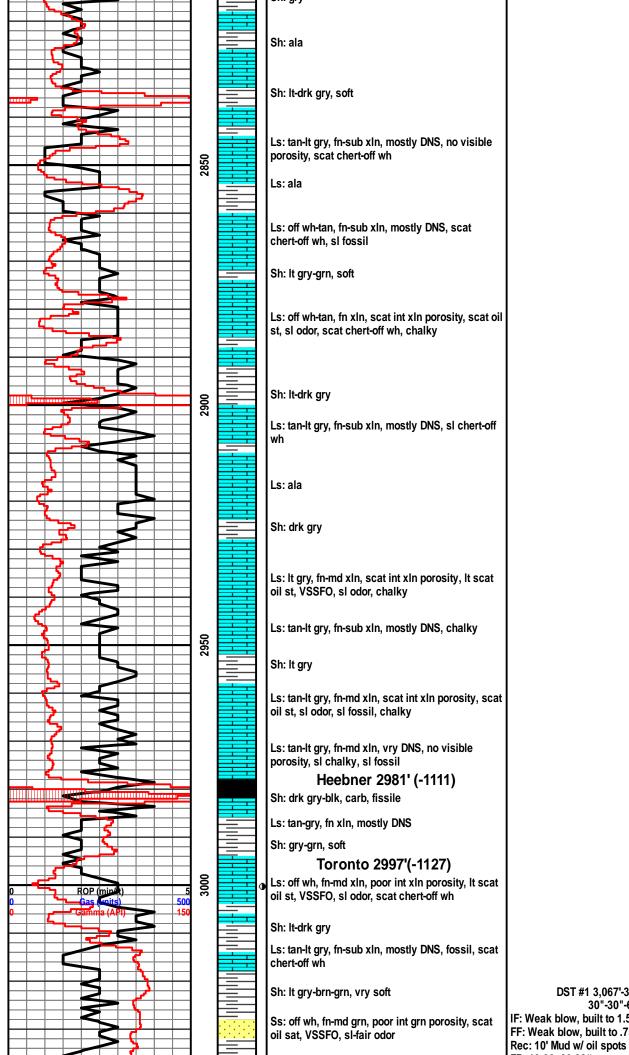
The Gage #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

The location for the Gage #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,350'-3,400'. Structurally, the Gage #1 ran 10' high to our correlation well at the LNSG. Three bottom-hole tests were conducted in the LNSG, all of which yielded negative results. The Arbuckle horizon was 6' high to the comparison well. Upon completion of the logging operation, a straddle tested was conducted across top 4-14' of ABCK. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to run 5 1/2" production casing on 1/10/13 to further evaluate the Arbuckle in the Gage #1 well.

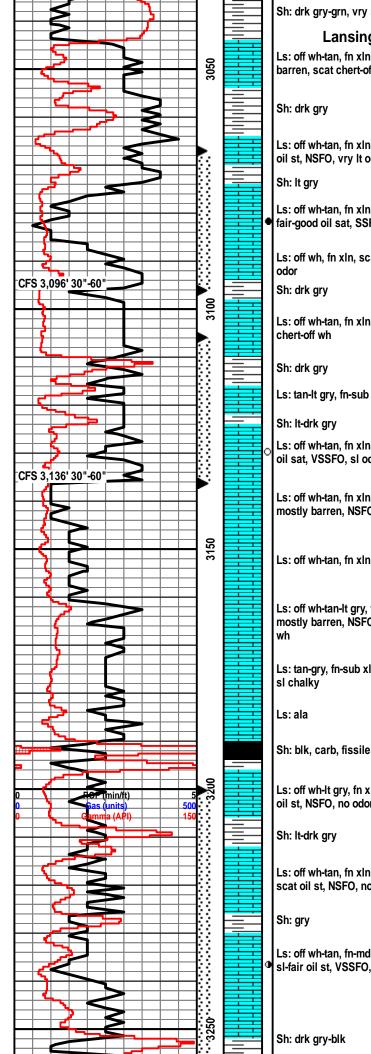








DST #1 3,067'-3,096' LKC "C" 30"-30"-60"-60" IF: Weak blow, built to 1.5" FF: Weak blow, built to .75"



Sh: drk gry-grn, vry soft

Lansing 3048' (-1178)

Ls: off wh-tan, fn xln, scat int xln porosity, mostly barren, scat chert-off wh

Ls: off wh-tan, fn xln, poor int xln porosity, vry It oil st, NSFO, vry It odor

Ls: off wh-tan, fn xln, ool, fair oomoldic porosity, fair-good oil sat, SSFO, fair odor, sI chert-off wh

Ls: off wh, fn xln, scat int xln porosity, NSFO, no

Ls: off wh-tan, fn xln, mostly DNS, chalky, sl

Ls: tan-lt gry, fn-sub xIn, mostly DNS,

Ls: off wh-tan, fn xln, ool, poor oom porosity, fair oil sat, VSSFO, sl odor

Ls: off wh-tan, fn xln, ool, good oom porosity, mostly barren, NSFO, chalky, sI chert-off wh

Ls: off wh-tan, fn xln, mostly DNS, sl chalky

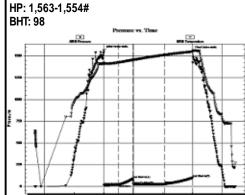
Ls: off wh-tan-It gry, fn xln, ool, fair oom porosity, mostly barren, NSFO, vry chalky, scat chert-off

Ls: tan-gry, fn-sub xIn, vry DNS, hvy chert-off wh,

Ls: off wh-lt gry, fn xln, poor int xln porosity, scat oil st, NSFO, no odor, scat chert-off wh

Ls: off wh-tan, fn xln, poor int xln porosity, vry It scat oil st, NSFO, no odor, vry chalky

Ls: off wh-tan, fn-md xln, poor-fair int xln porosity, sl-fair oil st, VSSFO, sl odor, sl chalky, fossil



DST #2 3,106'-3,136' LKC "E & F" 30"-30"-60"-60"

IF: Weak blow, built to 5" FF: Weak blow, built to 6.5"

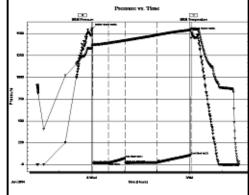
Rec: 30' GIP, 30' OCM (8% O, 92% M)

FP: 14-20, 16-23# SIP: 72-108# HP: 1,559-1,513#

FP: 13-22, 26-28#

SIP: 90-99#

BHT: 96



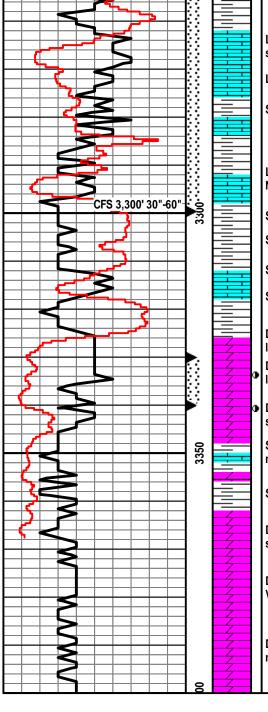
DST #3 3,200'-3,300' LKC "I-L" 30"-30"-30"-30"

IF: Weak blow, built to 1" FF: Weak surface blow Rec: 10' Mud w/ oil spots FP: 15-19, 20-22#

SIP: 134-61# HP: 1,631-1,606#

BHT: 94





Ls: tan-lt gry, fn xln, scat int xln porosity, scat oil st, NSFO, no odor, sl chalky

Ls: ala

Sh: gry, scat blk

Ls: off wh-tan-gry, fn-md xln, poor int xln porosity, NSFO, no odor, sl fossil

B/KC 3298' (-1428)

Sh: It-drk gry-grn, soft

Sh: It-drk gry-brn, soft, earthy

Sh: drk gry-brn-grn, vry soft

Sh: ala

Arbuckle 3326' (-1456)

Dolo: off wh, fn-md xln, fair-good int xln porosity, It oil sat, VSSFO, sl-fair odor

Dolo: off wh, fn-md xln, poor-fair int xln porosity, lt-fair oil sat, SSFO, good-strong odor

Dolo: off wh, fn-md xln, poor int xln porosity, lt oil sat, VSSFO, fair-good odor

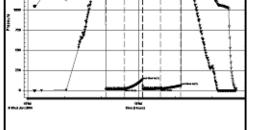
Sh: drk gry-brn, scat ls: off wh-tan, fn-sub xln, mostly DNS

Sh: ala

Dolo: off wh, fn-md xln, fair int xln porosity, fair oil sat, SSFO, good-strong odor

Dolo: wh, fn-md xln, fair int xln porosity, It oil st, VSSFO, strong odor, chalky, scat sh: drk gry

Dolo: wh, md xln, fair-good int xln porosity, mostly barren, strong odor, scat chalk



DST #4 3,330-3,340' Top 4-14' Arbuckle 30"-30"-30"-30"

IF: BOB in 11 minutes, .5" blow back on shut in FF: BOB in 30 minutes, surface blow back on

Rec: 270' GIP, 150' GO (20% G, 80% O), 60' G&OCWM (5% G, 5% O, 30% W, 60% M)

FP: 29-65, 75-95# SIP: 620-498# HP: 1,742-1,765#

BHT: 109

