

AUSTIN B. KLAUS



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

Well Name: Hageman #1 Location: Rooks County

License Number: API #15-163-24,274-0000 Region: Kansas

Spud Date: 11/14/14 Drilling Completed: 11/24/14

Surface Coordinates: Section 36 - Township 8 South - Range 18 West

1,710' FSL & 570' FWL

Bottom Hole Vertical well with minimal deviation, same as above

Coordinates:

Ground Elevation (ft): 2,019'

Logged Interval (ft): 2,900'

To: RTD

K.B. Elevation (ft): 2,024'

Total Depth (ft): 3,510'

Formation: LKC, Arbuckle
Type of Drilling Fluid: Chemical (Andy's)

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

OPERATOR

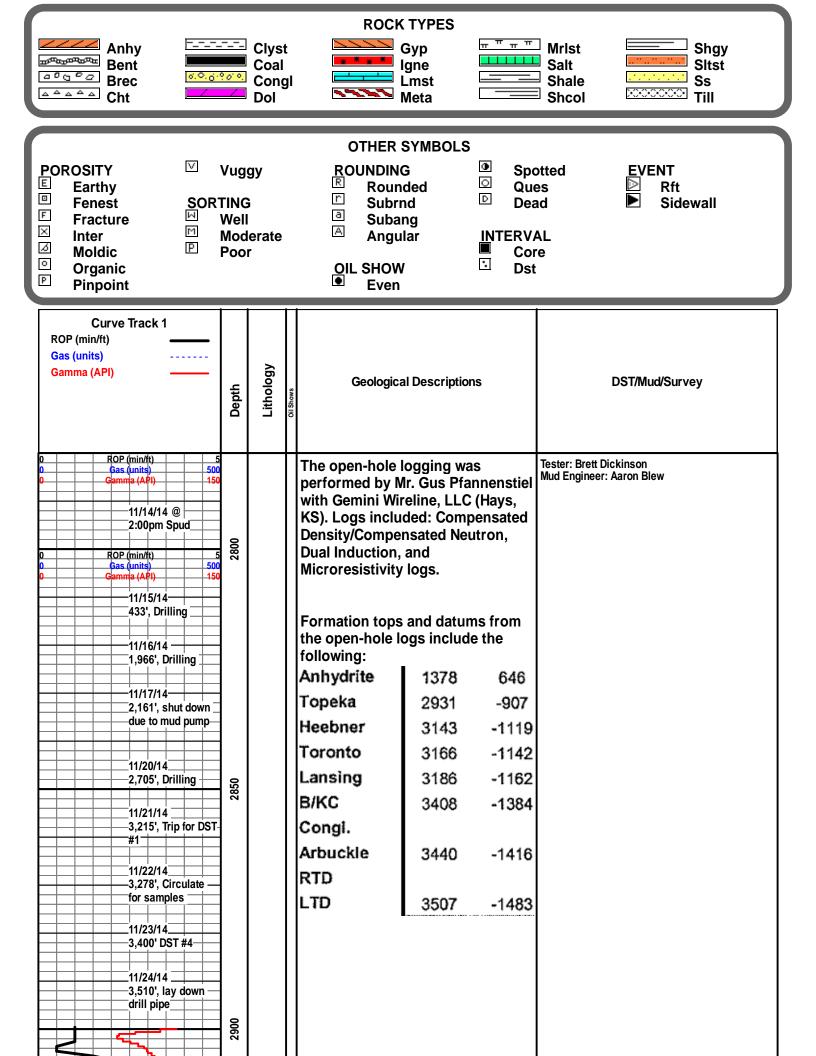
Company: John O. Farmer, Inc Address: 370 W. Wichita Ave

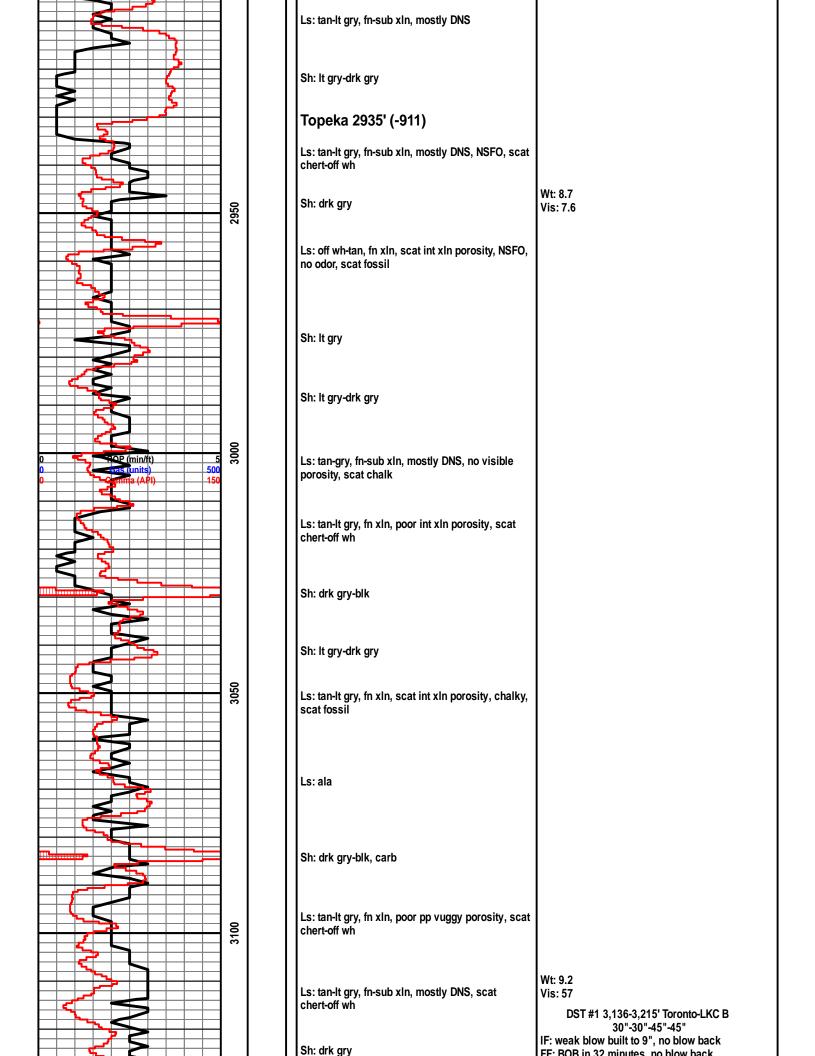
Russell, KS 67665

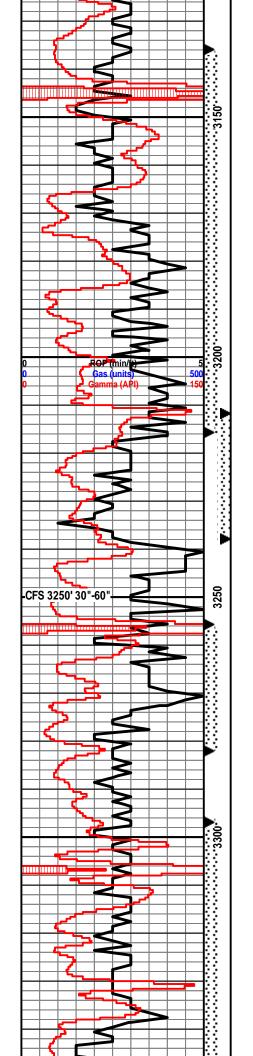
Comments

The Hageman #1 well was drilled by WW Rig #6 (Tool Pusher: Mark Biggie).

The location for the Hageman #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,900'-3,510'. Structurally, the Hageman #1 ran 19' high to our correlation well, Hageman #1 (G-D Oil Operations), at the Lansing. A bottom-hole test was conducted covering Toronto - LKC B, yielding positive results. Three additional tests were conducted in the LKC C, E-F, & H-K respectively, with the Lansing H-K test being the only one yielding positive results. The Arbuckle horizon was picked 8' high to our previously drilled Weigel Unit #1, 3,000' to the north. Upon completion of the logging operation a straddle test was conducted in the Arbuckle, yielding negative results. Upon completion of the drill stem test, the decision was made to set 5 1/2" production casing to further evaluate the Hageman #1 well on 11/24/14.







Ls: off wh-tan, fn xln, scat int xln & pp vuggy porosity, scat oil st, SSFO, sl odor

Heebner 3147' (-1123)

Sh: blk, carb, fissile

Sh: drk gry-brn

Toronto 3170' (-1146)

Ls: off wh-tan, fn xln, scat pp vuggy porosity, scat dead oil st, NSFO, no odor

Sh: It gry-drk gry

Lansing 3188' (-1164)

Ls: off wh-tan, fn xln, fossil, poor-fair int fossil porosity, fair oil sat, SSFO, sl odor

Ls: off wh-tan, fn xln, poor int xln & pp vuggy porosity, fair oil st, VSSFO, sl odor, scat chert-off wh

Sh: drk gry

Ls: off wh-tan, fn xln, poor int xln porosity, scat oil sat, SSFO, sl odor

Sh: drk gry-blk

Ls: off wh-tan, fn xln, fossil, poor int xln porosity, DNS, NSFO

Sh: drk gry-blk

Ls: off wh-tan, fn xln, scat int xln & pp vuggy porosity, scat oil st, VSSFO, sl odor

Ls: off wh-tan, fn xln, fair int xln porosity, fair oil sat, SSFO, sl chalky

Sh: drk gry

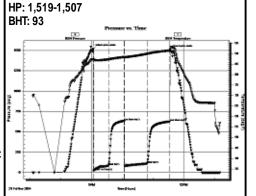
Sh: drk gry-blk

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

Ls: off wh-tan, fn xln, scat int xln porosity, hvy chert-off wh, chalky, NSFO

Sh: drk gry

Ls: off wh-tan, fn-md xln, fair int xln & pp vuggy porosity, fair-good oil sat, FSFO, fair odor, scat chert-off wh, chalky



Rec: 185' SGMO (5% G, 20% M, 75% O), 90' HOCM

DST #2 3,212-3,238' LKC C 30"-30"-30"-30"

IF: weak blow built to 1.5" FF: weak surface blow Rec: 65' MW (30% M, 70% W)

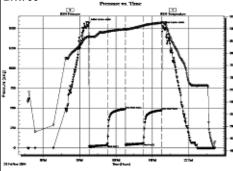
FP: 14-38, 38-56# SIP: 489-474# HP: 1,564-1,529#

(25% O, 75% M)

SIP: 635-627#

FP: 20-83, 82-110#

BHT: 93



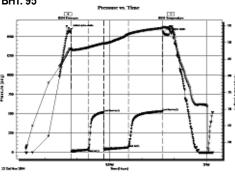
DST #3 3,256-3,282' LKC E-F 30"-30"-45"-45"

IF: weak blow built to .25" FF: weak blow built to .25"

Rec: 1' CO, 69' MW (40% M, 60% W)

FP: 14-36, 40-64# SIP: 523-533# HP: 1,595-1,548#

BHT: 95



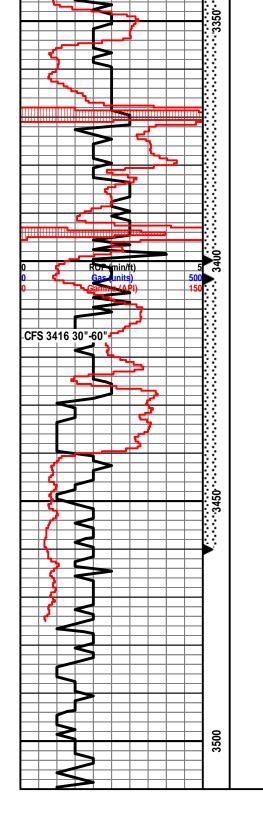
Wt: 9.2 Vis: 45

> DST #4 3,297-3,400' LKC H-K 30"-30"-60"-60"

IF: BOB in 17 minutes, .25" blow back FF: BOB in 15 minutes, 1" blow back Rec: 190' GMO (35% G, 65% O), 125' OCWM (10% O, 30% W, 60% M), 125' SOCMW (3% O, 20% M, 77% W)

FP: 21-111, 114-194# HP: 1,617-1,602#

SIP: 493-490#



Sh: drk gry

Ls: off wh-tan, fn xln, scat fossil, fair int xln porosity, sl-fair oil sat, SSFO, sl odor, chalky

Sh: drk gry-blk

Ls: off wh-tan, fn xln, scat int xln porosity, sl oil sat, NSFO, no odor

Sh: drk gry

Ls: off wh-tan, fn xln, poor int xln porosity, NSFO

BKC 3411' (1387)

Sh: drk gry-brn

Sh: It gry-drk gry-brn

Ls: tan-brn, fn-md xln, scat int xln porosity, scat oil st, NSFO

Arbuckle 3441' (-1417)

Dolo: off wh-tan, fn-md xln, fair sucrosic xln porosity, fair oil sat, SSFO, sl-fair odor

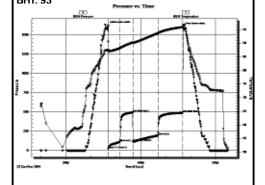
Dolo: off wh-tan, fn-md xIn, poor-fair int xIn porosity, fair-good oil sat, SSFO, fair odor, hvy chert-off wh

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

Dolo: off wh-tan, fn-crs xln, ool, poor int xln & oom porosity, fair oil sat, VSSFO, sl-fair odor

Dolo: off wh-tan, fn-crs xln, poor int xln porosity, scat oil st, NSFO, no odor

Dolo: ala



Wt: 9 Vis: 47

DST #5 3,404-3,460' Top 20' of Arbuckle 30"-30"-30"-30"

IF: weak blow built to .25"

FF: no blow Rec: 5' Mud FP: 17-21, 22-22# SIP: 39-31# HP: 1,702-1,651#

BHT: 98

