

AUSTIN B. KLAUS



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

Well Name: Patterson C #1
Location: Russell County

License Number: API #15-167-23978-00-00 Region: Kansas

Spud Date: 6/27/14 Drilling Completed: 7/3/14

Surface Coordinates: Section 35 - Township 13 South - Range 15 West

330' FNL & 1,160' FEL

Bottom Hole Vertical well with minimal deviation, same as above

Coordinates:

Ground Elevation (ft): 1,884'

Logged Interval (ft): 2,550'

To: RTD

K.B. Elevation (ft): 1,892'

Total Depth (ft): 3,380'

Formation: LKC, Arbuckle 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.

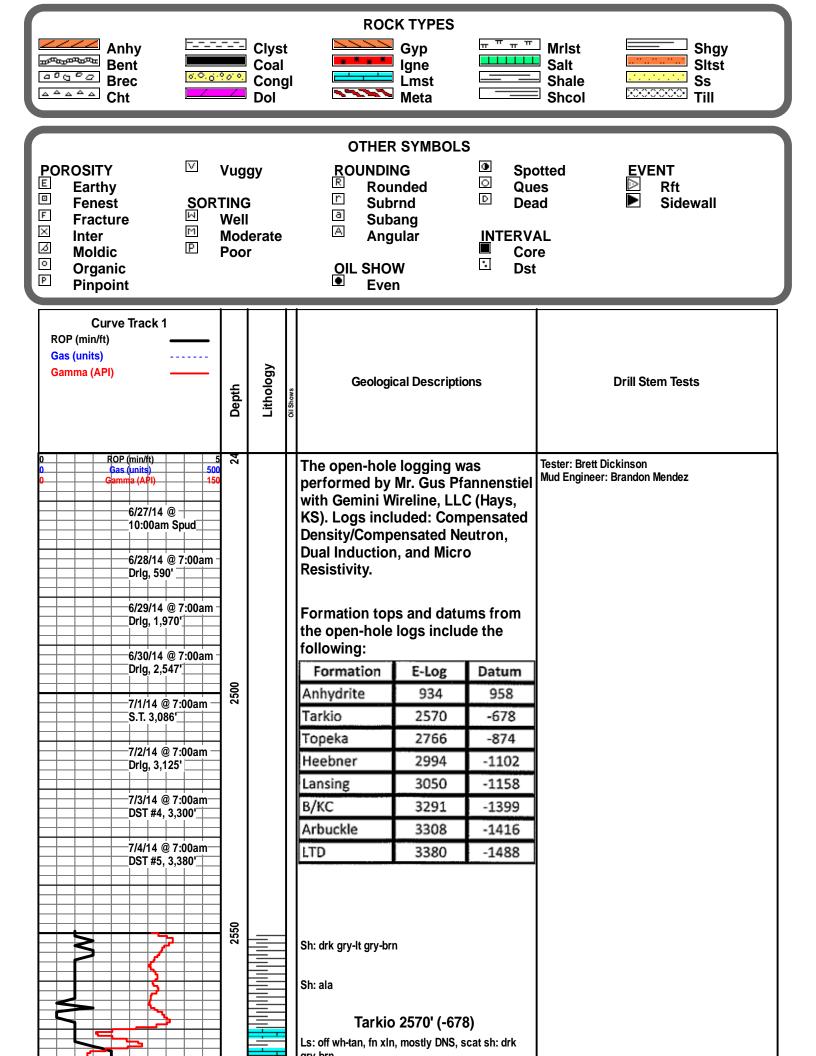
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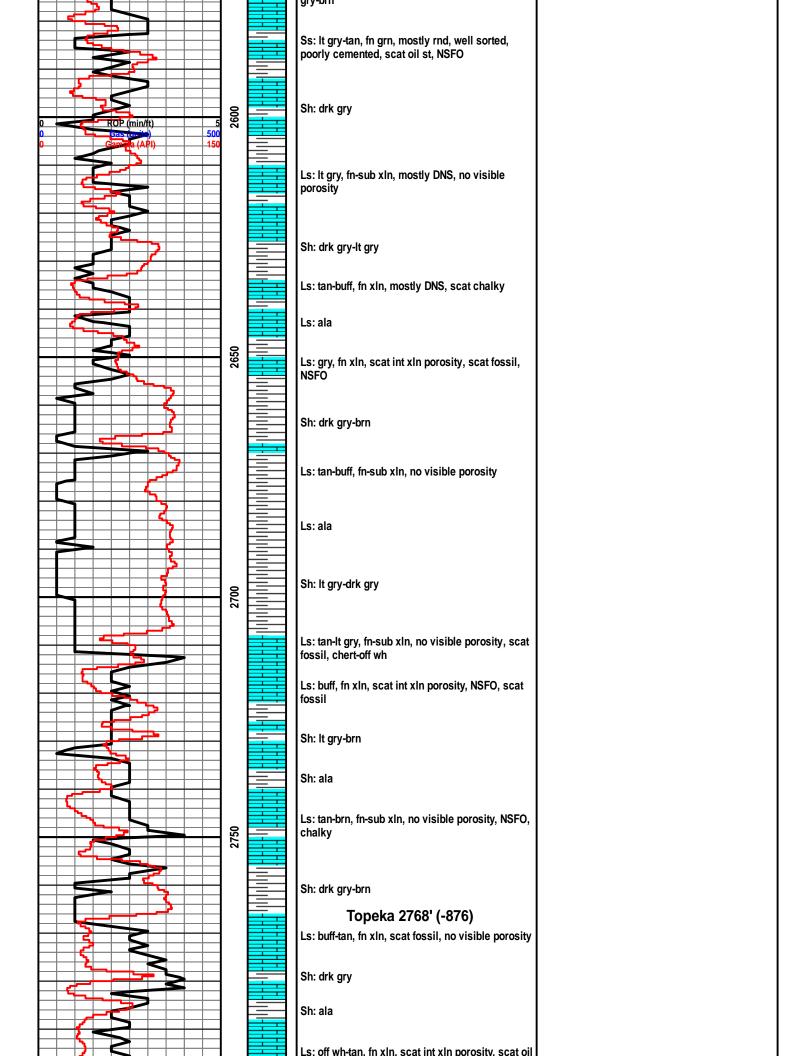
Russell, KS 67665-0352

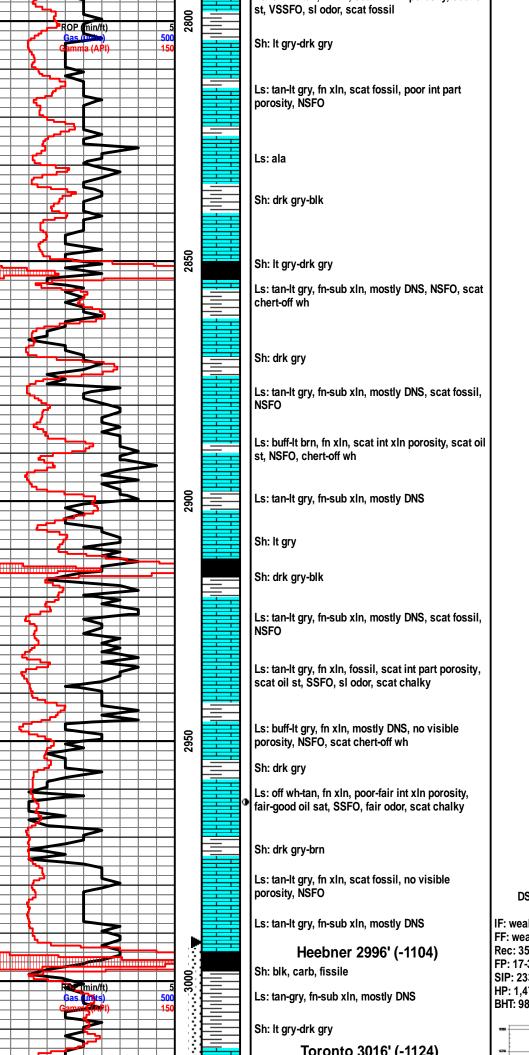
Comments

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

The location for the Patterson C #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,550'-3,380'. Structurally, the Patterson C #1 ran 13' high to our correlation well at the Lansing. Four bottom-hole tests were conducted in the Lansing, with the C-D test yielding the only positive results. The Arbuckle horizon was 8' high to the nearest Arbuckle well. Upon completion of the logging operation, a straddle tested was conducted, covering the top 12' of the Arbuckle. 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 7/4/14 to further evaluate the Patterson C #1 well.





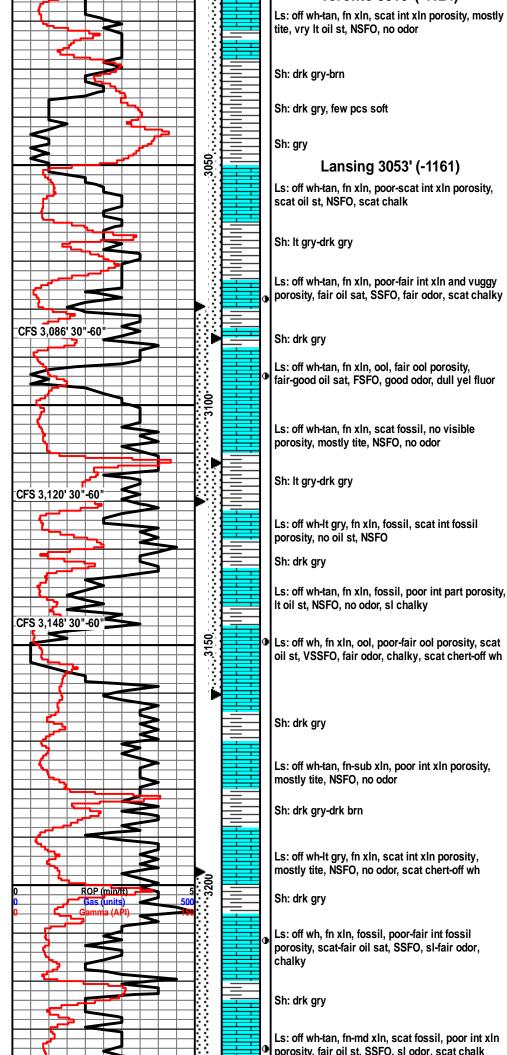


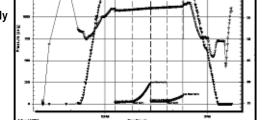
DST #1 2,993-3,086' (Toronto-LKC B) 30"-30"-30"-30" IF: weak blow built to 1" FF: weak surface blow

Rec: 35' Mud FP: 17-30, 31-33 # SIP: 233-95#

SIP: 233-95# HP: 1,475-1,433# BHT: 98

Pressure vs. Time





Vis: 57 Wt: 8.9

> DST #2 3,079-3,120' (LKC C-D) 30"-30"-60"-60"

IF: BOB in 7.5 minutes, no blow back FF: BOB in 11 minutes, surface blow back

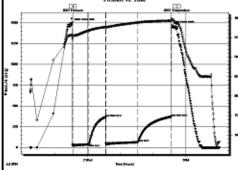
Rec: 300' Gas in pipe

20' GO (5% G, 95% O), 30' HOCM (30% O, 70% M). 65' MW (20% M, 80% W)

FP: 21-39, 42-65# SIP: 366-372#

HP: 1.495-1.469#

BHT: 100



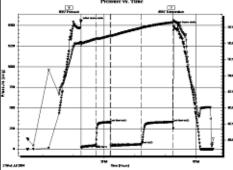
Vis: 51 Wt: 9.1

> DST #3 3,112-3,160' (LKC E-G) 30"-30"-30"-30"

IF: weak blow, built to 1.5" FF: weak blow built to 1.25" Rec: 85' SWCM (5% W, 95% M)

FP: 19-44, 41-60# SIP: 328-329# HP: 1,540-1,494#

BHT: 99



DST #4 3,197-3,300' (LKC I-L) 30"-30"-30"-30"

IF: weak blow, built to 1" FF: weak surface blow

Rec: 35' Mud FP: 17-26, 29-32# SIP: 519-144# HP: 1,609-1,594#

BHT: 99

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

Ls: off wh-lt gry, fn xln, scat int xln porosity,

porosity, scat-fair oil sat, SSFO, sl-fair odor,

Ls: off wh-tan, fn-md xln, scat fossil, poor int xln

