



AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

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

Well Name: Reif #1
Location: Barton County
License Number: API #15-009-26,270-0000
Spud Date: 9/12/2019
Surface Coordinates: Section 13, Township 16 South, Range 14 West
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above
Ground Elevation (ft): 1,930
Logged Interval (ft): 2,800
Formation: LKC-Arbuckle
Type of Drilling Fluid: Chemical (Andy's Mud)

Region: Kansas
Drilling Completed: 9/20/2019
882' FSL & 1,968' FWL
K.B. Elevation (ft): 1,938
Total Depth (ft): 3,438
To: RTD

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OPERATOR

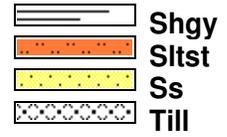
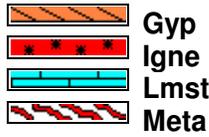
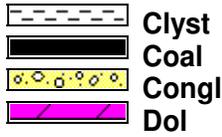
Company: John O. Farmer, Inc.
Address: 370 W. Wichita Ave.
Russell, KS 67665

Comments

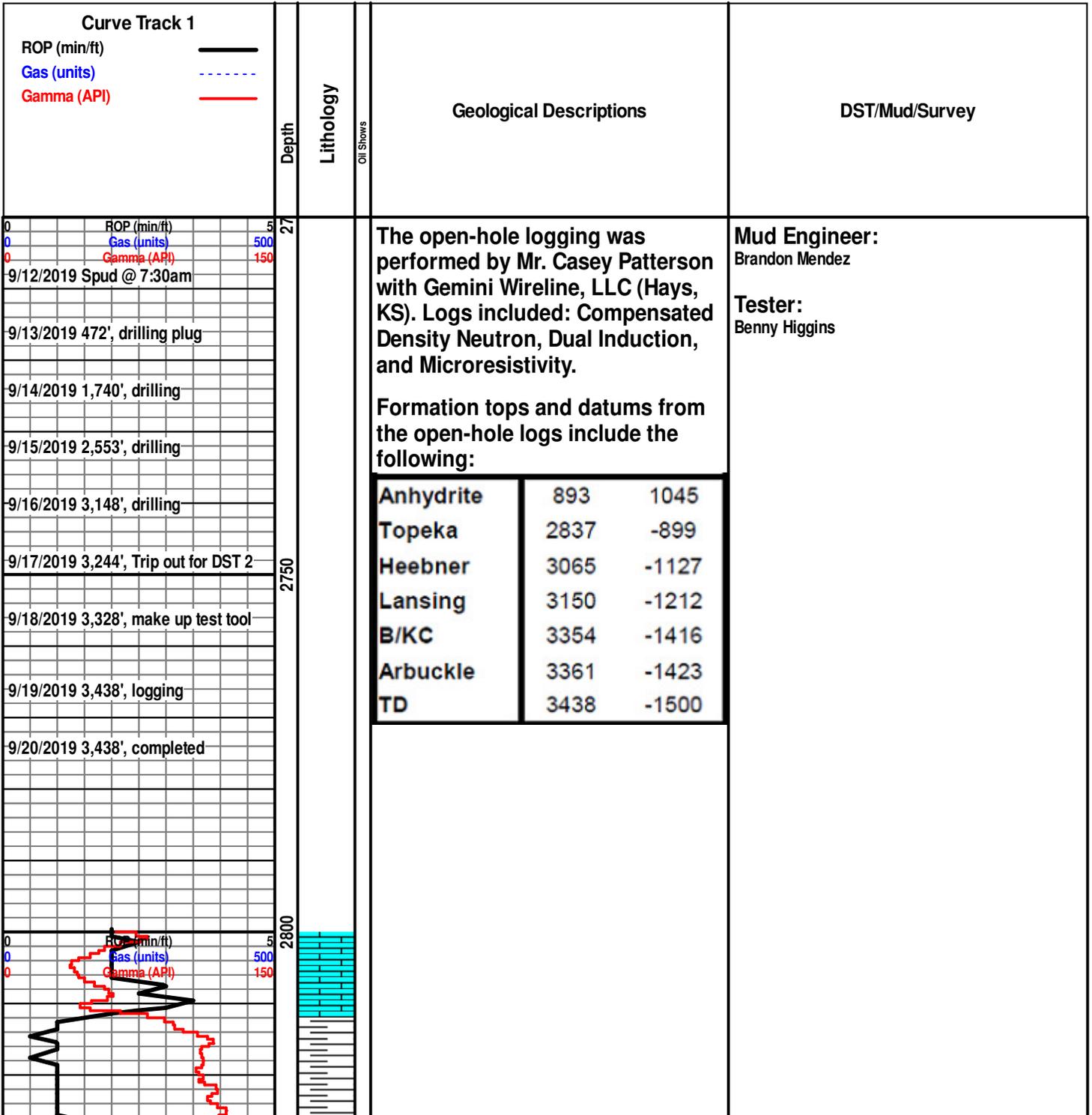
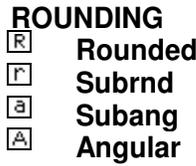
The Reif #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

The location for the Reif #1 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 2,800' - 3,438'. Oil shows were encountered in the LKC A,B,C,E,J, & Arbuckle. Structurally, the Lansing top was picked 16' high to the comparison well, Eckart #1 (Shell Oil Co.). Structural thinning occurred throughout the LKC and below, which resulted in the Arbuckle being picked 25' high to the comparison well. Three bottom-hole tests were conducted over the Lansing, all yielding negative results. Two straddle tests were conducted over the Arbuckle, which were also negative. After evaluation of all oil shows, drill stem test results, & electric logs, the decision was made to plug and abandon the Reif #1 on 9/20/2019.

ROCK TYPES



OTHER SYMBOLS



Topeka 2838' (-900)

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

Sh: lt-drk gry

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

Ls: off wh-tan-lt gry, fn xln, scat foss, poor-fair int xln porosity, scat dead oil stn, NSFO

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

Ls: ala

Sh: drk gry-blk

Ls: tan-gry, fn-sub xln, mostly DNS

Sh: lt-drk gry-brn

Ls: tan-lt gry, fn xln, scat foss, poor-fair int xln porosity, scat edge stn, NSFO, scat chalk

Sh: lt-drk gry

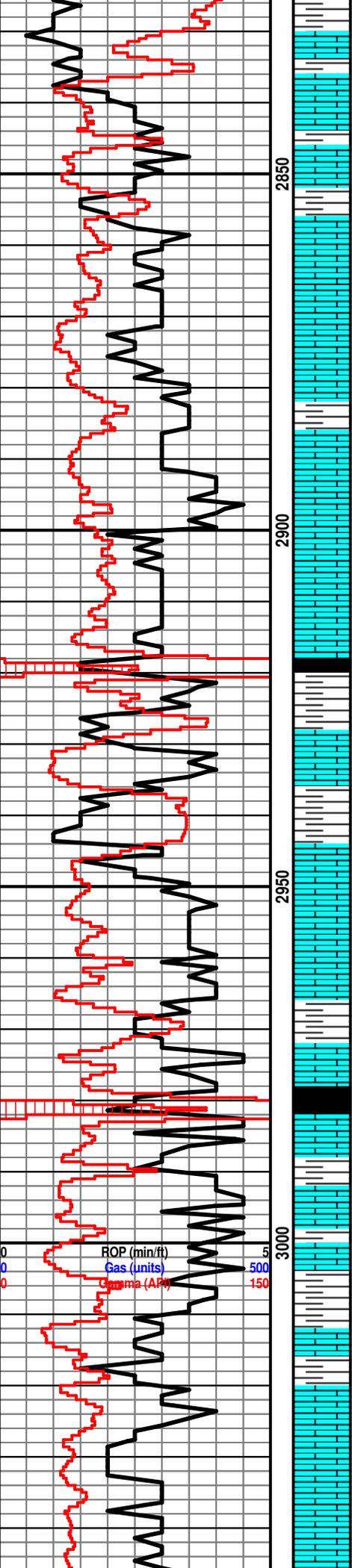
Sh: drk gry-blk

Ls: off wh-tan-gry, fn xln, scat foss, scat fair int xln & pp vuggy porosity, NSFO, scat chert-off wh

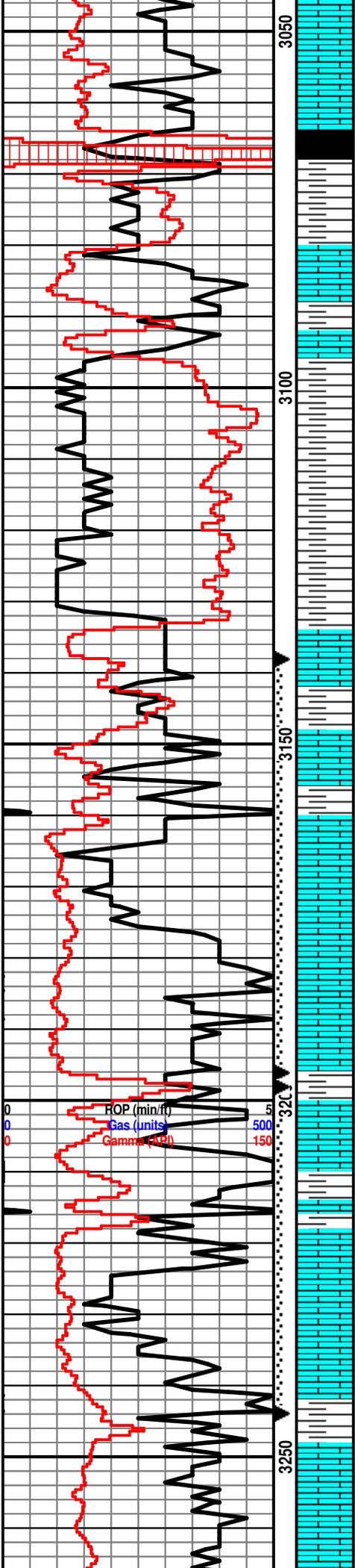
Sh: lt-drk gry

Ls: tan-gry, fn xln, poor int xln porosity, NSFO

Ls: off wh-tan-lt gry, fn xln, poor-fair int xln porosity, NSFO, scat chalk



ROP (min/ft) 5
Gas (units) 500
Gamma (API) 150



Ls: ala

Heebner 3064' (-1126)

Sh: blk, carb, fissile

Sh: lt gry-brn

Ls:

Sh: lt gry, soft

Sh: ala

Ls:

Sh: lt-drk gry

Lansing 3150' (-1212)

Ls: off wh-tan, fn xln, poor-fair int xln porosity, sl edge stn, VSSFO, scat chalk

Ls: off wh-tan, fn xln, foss, poor, scat fair int xln porosity, scat oil stn, VSSFO, scat chert-off wh

Ls: off wh-tan, fn xln, ool, few rxns w/ fair oom porosity, scat edge stn, vry fnt odor

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO

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

Sh: lt-drk gry

Ls: off wh-tan, fn xln, scat foss, poor int xln & scat int foss porosity, fair oil stn, VSSFO, sl odor

Sh: lt-drk gry

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

Ls: off wh-tan, fn xln, ool, fair oom & scat ool porosity, mostly barren

Ls: off wh-tan, fn xln, mostly DNS, NSFO

Sh: lt-drk gry

Ls: off wh-tan, fn xln, mostly DNS, NSFO

DST #1 3,138-3,196' (LKC A-D)

30"-30"-30"-30"

IF: weak blow built to .75"

FF: no blow

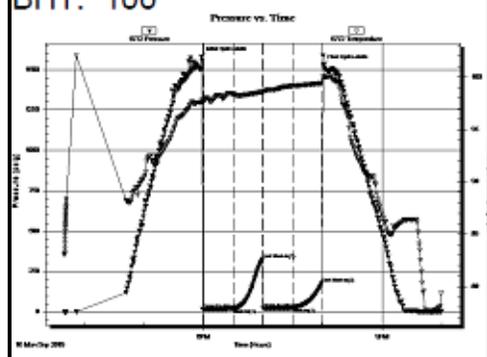
Rec: 10' Mud

FP: 17-21, 21-25#

SIP: 326-179#

HP: 1,580- 1,530#

BHT: 100°



DST #2 3,198-3,244' (LKC E-G)

30"-30"-30"-30"

IF: weak surface blow

FF: no blow

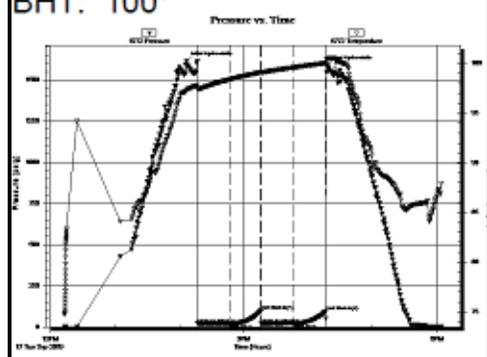
Rec: 2' Mud

FP: 21-20, 20-21#

SIP: 100-95#

HP: 1,612- 1,588#

BHT: 100°



DST #3 3,270-3,328' (LKC H-J)

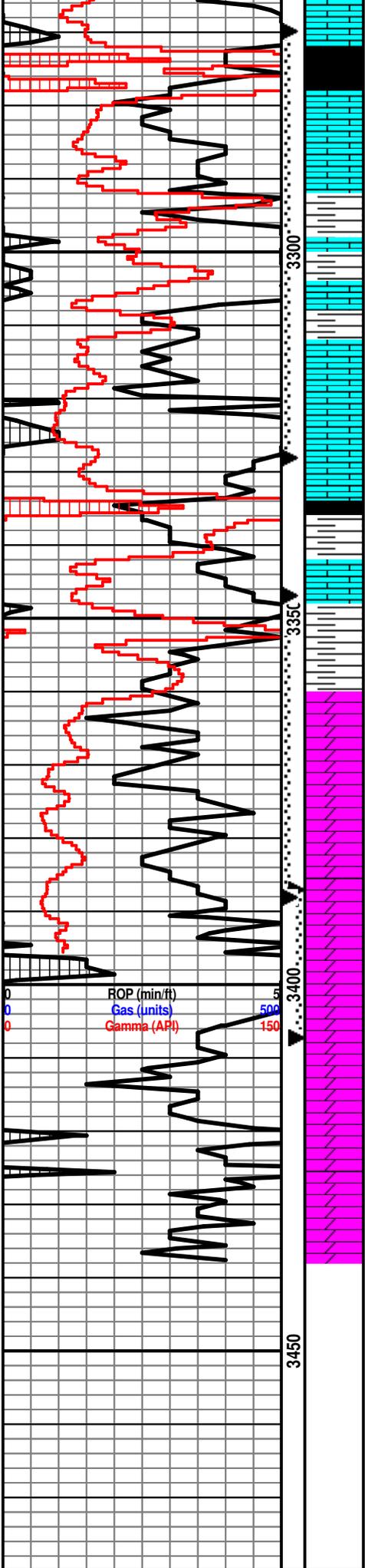
30"-30"-30"-30"

IF: weak blow built to .5"

FF: surface blow died in 9 minutes

Rec: 30' Slight Oil Cut Mud (2% O, 98% M)

FP: 17-22, 24-25#



Sh: drk gry-blk

Ls: tan-lt gry, fn-sub xln, mostly DNS, barren, scat chert-off wh

Sh: lt-drk gry

Ls: off wh-tan, fn xln, poor int xln & scat pp vuggy porosity, fair oil sat in few rxns, VSSFO, sl odor

Sh: lt-drk gry

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

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO

Sh: lt-drk gry-brn

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

B/KC 3354' (-1416)

Sh: lt-drk gry-grn

Arbuckle 3361' (-1423)

Dolo: off wh-tan, fn xln, poor int xln porosity, sl oil stn, VSSFO, fnt odor

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

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

Dolo: off wh-tan, fn-md xln, poor-fair int xln porosity, scat-fair oil sat, SSFO, fnt odor, scat chert-off wh

Dolo: off wh-tan, md-crs xln, poor-fair int xln & scat vuggy porosity, sl-fair oil sat, SSFO, sl odor

Dolo: off wh, md-crs xln, fair int xln porosity, mostly barren

Dolo: ala

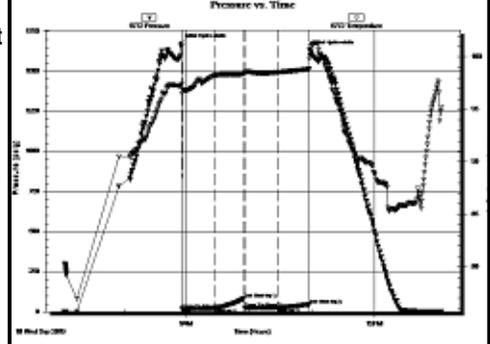
RTD @ 3,438'

SIP: 82-47#

BHT: 97°

HP: 1,675- 1,633#

BHT: 100°



DST #4 3,347-3,388' (Top 27' of Arbuckle)

30"-30"-30"-30"

IF: weak surface blow built to .5"

FF: no blow

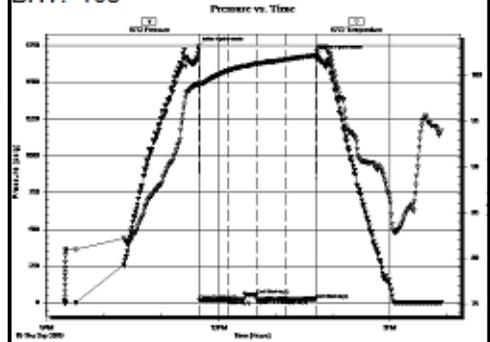
Rec: 30' Mud

FP: 19-22, 24-26#

SIP: 55-26#

HP: 1,741- 1,686#

BHT: 103°



DST #5 3,387-3,407' (26-46' into Arbuckle)

30"-30"-30"-30"

IF: BOB in 18 minutes, no blow on shut in

FF: BOB in 23 minutes, no blow back on shut in

Rec: 10' Clean Oil

240' Mud Cut Water (40% M, 60% W)

120' Mud Cut Water (20% M, 80% W)

370' Total Fluid Recovery

FP: 24-126, 132-185#

SIP: 1,117-1,113#

HP: 1,782- 1,713#

BHT: 108°

