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

Well Name:	**McCall B#1**		
Location:	**Graham County**		
License Number:	**API #15-065-24,096-0000**	**Region:**	**Kansas**
Spud Date:	**1/28/15**	**Drilling Completed:**	**2/4/15**
Surface Coordinates:	**Section 16, Township 9 South, Range 22 West 2,310' FSL & 665' FEL**		
Bottom Hole Coordinates:	**Vertical well with minimal deviation, same as above**		
Ground Elevation (ft):	**2,328'**	**K.B. Elevation (ft):**	**2,333'**
Logged Interval (ft):	**3,300' To: RTD**	**Total Depth (ft):**	**4,010'**
Formation:	**LKC, Arbuckle**		
Type of Drilling Fluid:	**Chemical (Mud Co.)**		

OPERATOR

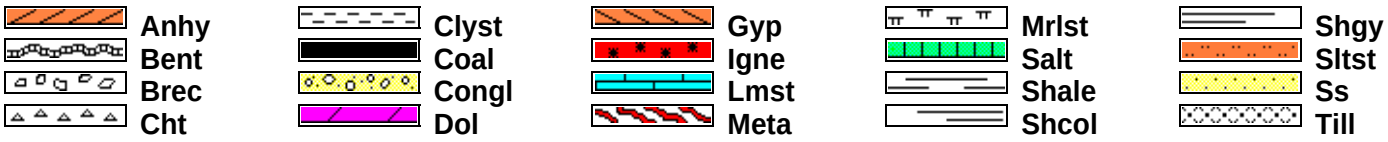
Company: John O. Farmer, Inc.
Address: 370 W. Wichita Ave
Russell, KS 67665

Comments

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

The location for the McCall B #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 3,300'-4,010'. Structurally, the McCall B #1 ran 20' high to our correlation well, Walker #2 (Peel Hardman), at the Lansing. Two bottom-hole tests were attempted in the LKC C-D, packer failures occured during each test. Two additional bottom-hole tests were conducted in the LKC F & H-K, both yielding negative results. The Arbuckle horizon was picked 29' high to the Walker #2, 1,850' to the northwest. 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 plug and abandon the McCall B #1 well on 2/4/15.

ROCK TYPES



OTHER SYMBOLS

POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

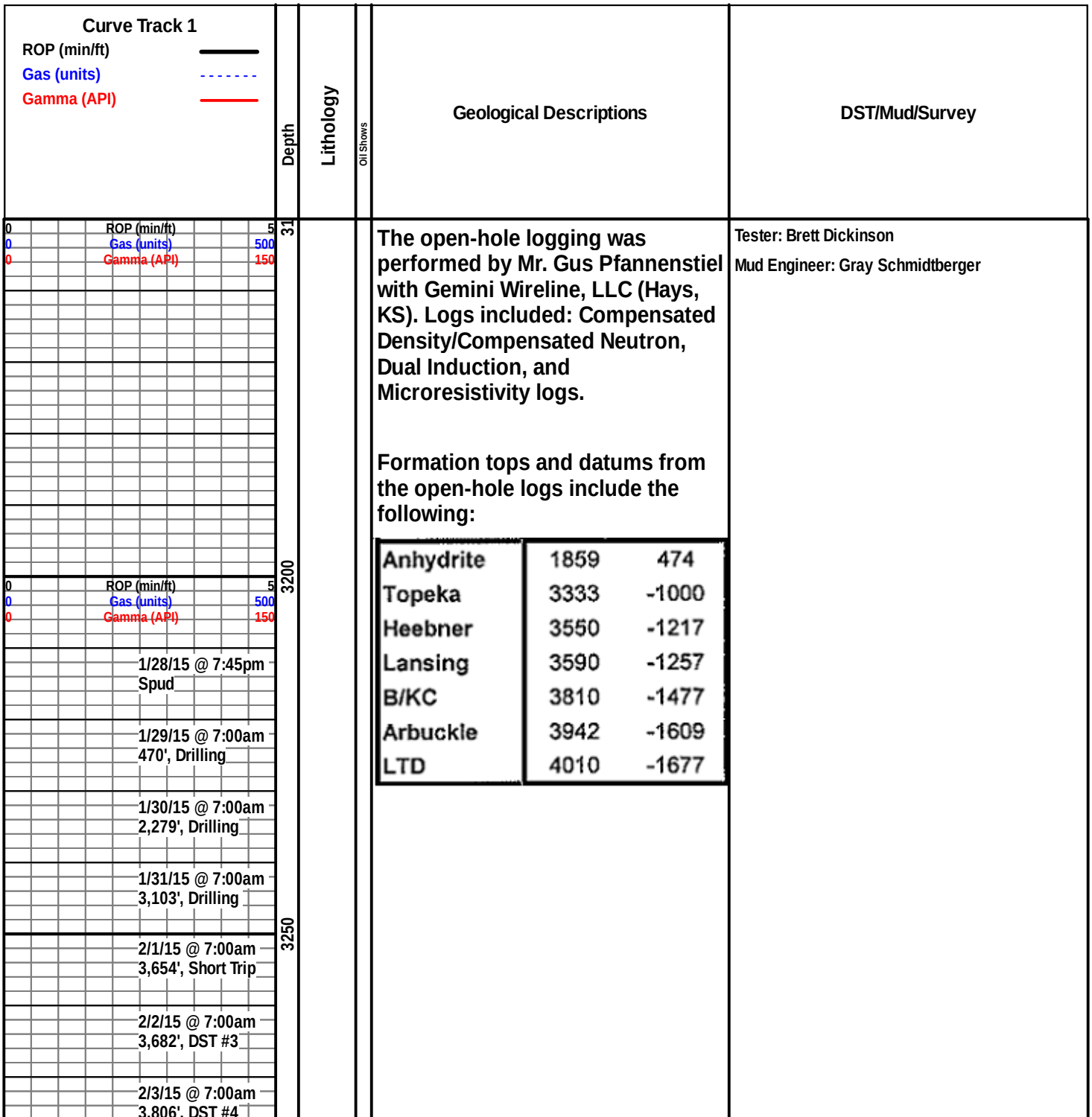
SORTING
- Well
- Moderate
- Poor

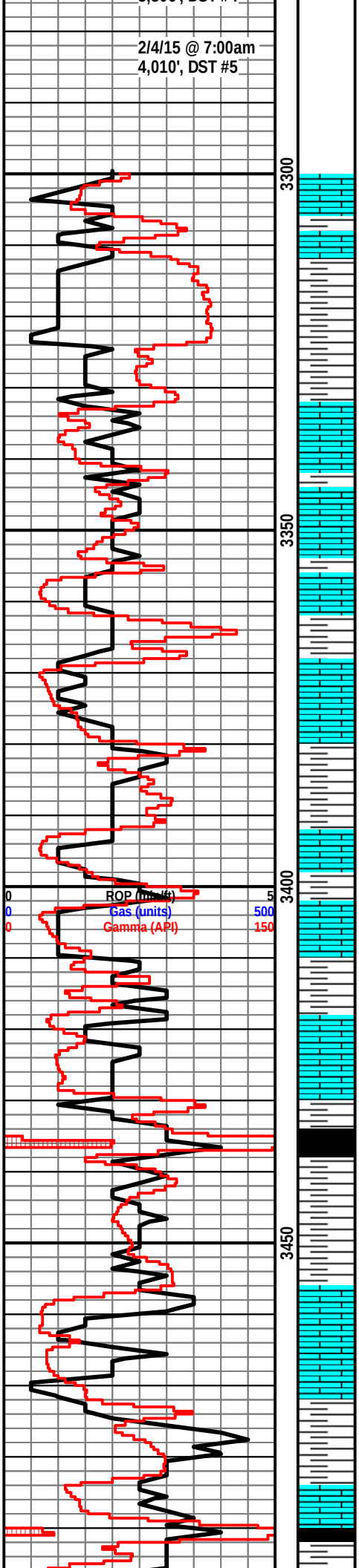
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

OIL SHOW
- Even
- Spotted
- Ques
- Dead

INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall





Ls: tan-lt brn, fn xln, fossil, DNS, scat pyrite

Ls: ala

Sh: drk gry-brn

Topeka 3333' (-1000)

Ls: tan-gry, fn xln, no visible porosity, scat chert-off wh

Ls: ala

Ls: tan-brn, fn xln, mostly DNS

Sh: gry-brn

Ls: tan-lt brn, fn xln, scat int xln porosity, mostly barren, no odor, scat chert-off wh-gry

Sh: drk gry-brn

Ls: tan-brn, fn xln, fossil, mostly DNS

Sh: lt gry-drk gry-brn

Sh: gry

Ls: tan-lt brn-gry, fn xln, DNS, scat chalky

Ls: ala

Sh: blk, carb

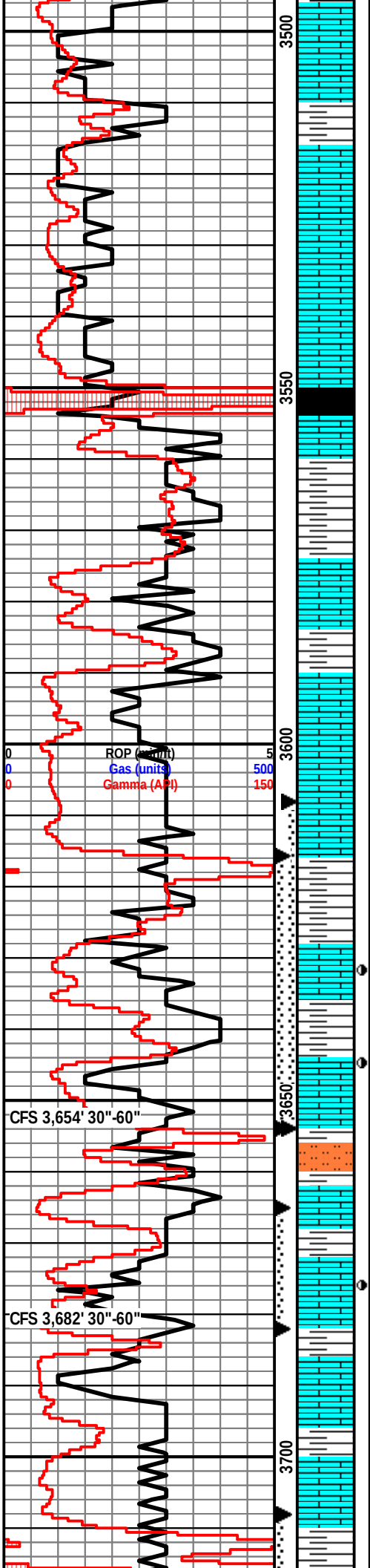
Sh: gry-brn-grn

Ls: tan-brn-gry, fn xln, DNS

Sh: drk gry-brn

Ls: tan-lt brn, fn xln, scat pp vuggy porosity, mostly barren, scat chert-off wh

Sh: blk, carb



Ls: brn-gry, fn xln, mostly DNS

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

Ls: brn-tan, fn xln, fossil, mostly DNS, chalky

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

Ls: ala

Heebner 3554' (-1221)

Sh: blk, carb, fissile

Ls: tan-brn, fn xln, DNS, chalky

Sh, Sltst: gry-brn-grn

Toronto 3577' (-1244)

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

Lansing 3591' (-1258)

Ls: tan-brn, fn xln, fossil ool, poor ool porosity, mostly barren, scat chalky

Ls: off wh-tan, fn-md xln, vry DNS, no visible porosity, scat chert-off wh, chalky

Sh: drk gry-blk

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

Sh: drk gry-brn

Ls: off wh-tan, fn xln, poor-fair int xln & vuggy porosity, scat-fair oil st, NSFO, no odor, chalky

Sh, Sltst: gry-brn-grn, soft

Ls: tan-brn, fn xln, DNS

Sh: drk gry-brn

Ls: off wh-tan, fn xln, fair vuggy & int xln porosity, fair oil st in porosity, SSFO, sl odor, dull yel fluor

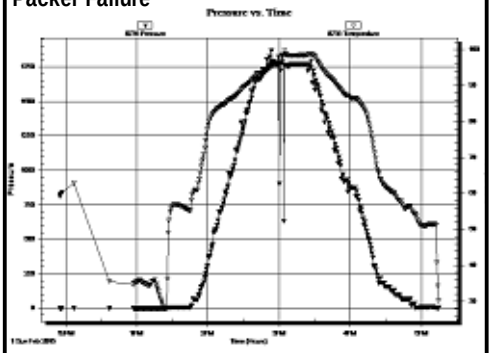
Ls: off wh-tan-lt gry, fn-md xln, vry DNS, no visible porosity, hvy chert-off wh

Sh: scat drk gry-brn-grn

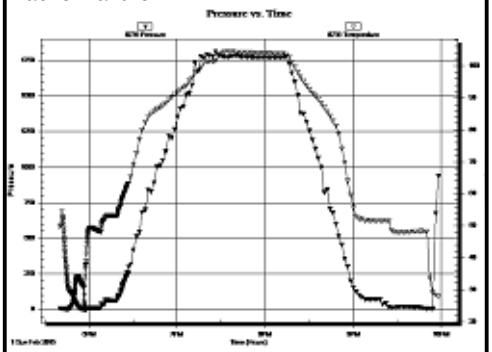
Ls: tan-lt gry, fn-md xln, mostly DNS, scat chert-off wh-gry

Sh: blk, carb, fissile

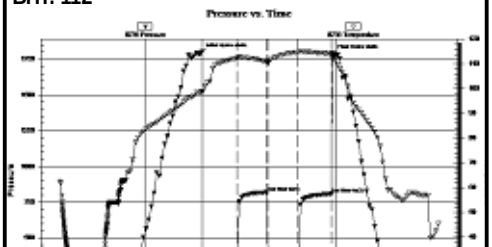
DST #1 3,616'-3,654' (LKC C-D)
Packer Failure

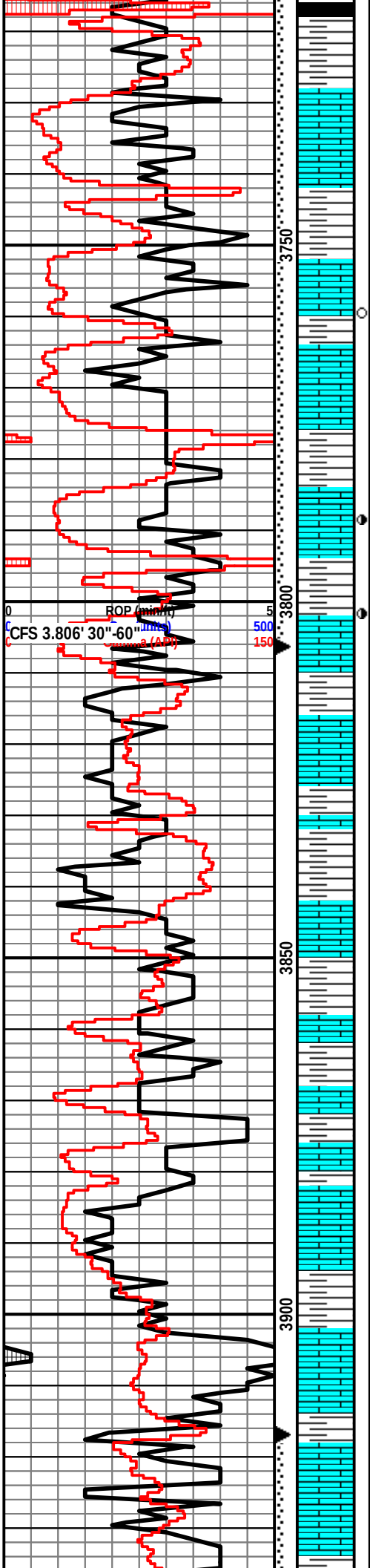


DST #2 3,608'-3,654' (LKC C-D)
Packer Failure



DST #3 3,665'-3,682' (LKC F)
30"-30"-30"-30"
IF: BOB in 29 minutes, no blow back
FF: weak blow built to 8", no blow back
Rec: 250' MCW (5% M, 95% W)
FP: 21-99, 102-137#
SIP: 818-809#
HP: 1,792-1,785#
BHT: 112





Sh: blk, carb, fissile

Sh: drk gry-brn-grn

Ls: off wh-tan, fn-md xln, poor int xln porosity, NSFO, no odor, mostly DNS, hvy chert-off wh

Sh: lt gry-drk gry

Ls: tan-lt brn, fn-md xln, fossil, ool, scat ool porosity, sl oil st in porosity, NSFO, no odor

Ls: tan-lt gry-brn, fn xln, scat pp vuggy porosity, sl oil st in porosity, NSFO, no odor

Sh: drk gry-brn

Ls: off wh-tan, fn-md xln, fossil, ool, fair ool porosity, fair-good sat in porosity, FSFO, fair-good odor

Ls: off wh-tan, fn xln, fossil, ool, poor-fair ool porosity, fair oil sat in porosity, SSFO, vry lt odor

B/KC 3811' (-1479)

Sh: gry-brn-grn

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

Sh: drk gry-brn-grn, soft

Ls: tan-drk brn, fn xln, DNS, hvy chert-off wh

Ls: ala, sl fossil

Ls: ala, mottled, DNS

Ls: tan-drk brn-gry, fn xln, DNS

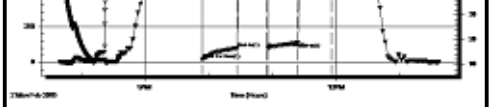
Sh: drk gry

Ls: off wh-tan, fn xln, vry DNS, orange

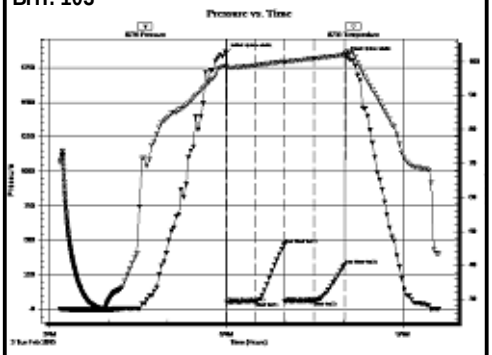
Sh: drk brn-rd

Ls: tan-brn, fn xln, vry DNS, hvy chert-off wh

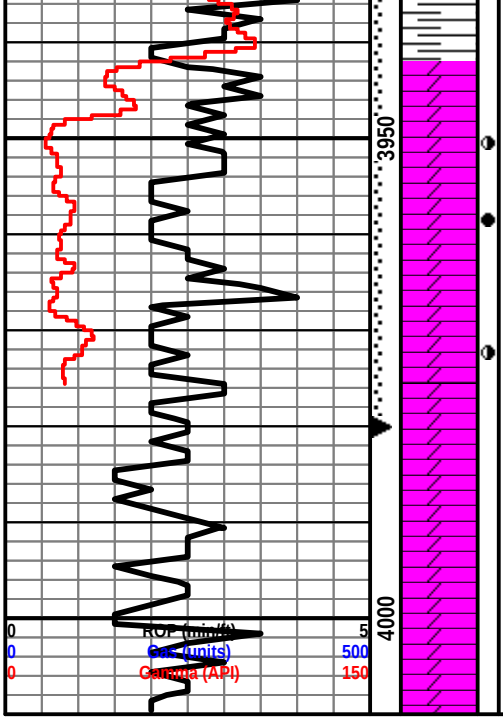
Ls: ala



DST #4 3,708'-3,806' (LKC H-K)
30"-30"-30"-30"
IF: weak blow built to 1.75"
FF: weak surface blow
Rec: 15' Mud
FP: 51-54, 56-58#
SIP: 474-320#
HP: 1,857-1,835#
BHT: 103



DST #5 3,917'-3,980' (Top 32' Arbuckle)
15"-15"-15"-15"
IF: BOB in 1.5 minutes, surface blow back
FF: BOB in 1.5 minutes, no blow back
Rec: 1,325' MCW (30% Mud, 70% W) - cl 25,000 ppm



Sh: drk gry-brn-grn

Arbuckle 3945' (-1612)

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

Dolo: off wh-tan-brn, fn-md xln, poor-fair int xln porosity, good oil sat, GSFO, good odor, fair yel fluor

Dolo: off wh-tan, fn-md xln, poor int xln porosity, good oil sat, FSFO, good odor, dull yel fluor

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

Dolo: ala

ppm
FP: 129-486, 498-1,149#
SIP: 1,135-1,149#
HP: 2,005-1,961#
BHT: 122