



## **Woolsey Operating Company, LLC**

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

**Well Name:** Miller C #3

**Location:** Section 10 - Township 35 South - Range 11 West

**License Number:** 15-007-23714-0000

**Region:** Barber County, KS.

**Spud Date:** June 2, 2011

**Drilling Completed:** June 13, 2011

**Surface Coordinates:** 1980' FNL, 730' FWL or App W 1/2 E 1/2 SW NW

Hardtner Field

**Bottom Hole Coordinates:** Verticle Hole

**Ground Elevation (ft):** 1396'

**K.B. Elevation (ft):** 1407'

**Logged Interval (ft):** 4000'      To: 5485'      **Total Depth (ft):** 5485'

**Formation:** Kansas City Group ----> Simpson Group

**Type of Drilling Fluid:** Chemical Mud Displaced at 3213'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### **OPERATOR**

**Company:** Woolsey Operating Company,LLC

**Address:** 125 N. Market, Suite 1000

Wichita, KS 67202

### **GEOLOGIST**

**Name:** Bill Klaver

**Company:** Woolsey Operating Co. LLC

**Address:** 125 N. Market, Wichita Kansas, 67202

## COMMENTS

Surface Casing: Set 6 joints new 10 3/4" X 32.75#/ft casing at 247' KB (tally 234') w/240 sx Class A, 2% gel, 3% cc. Cement did circulate. Plug down 2:15 am on June 3, 2011.

Production Casing: 5 1/2" X 16.5#/ft

Deviation Surveys: 1/2 at 249', 1/4 at 1206', 1/4 at 1737', 1/2 at 2708', 1/2 at 3307', 1/4 at 3708', 1/2 at 4207', 1 at 4709', 1/2 at 4882',

Pipe Strap @ 4882', Strap: 4895.62', Board: 4895.64', strap .02' short to the board, no changes made to the board.

Duke Drilling Co. Rig 10 Bit Record:

#1 14 3/4" HTC RR in at 0' out at 249'. 249' in 2.5 hours.

#2 7 7/8" HTC GX-23 in at 249', out at 5344'. 5095'/159 hours

#3 7 7/8" Varel HE-29 RR in at 5344', out at 5485'

Gas Detector: Woolsey Operating Company, Gas Trailer #2

Mud System: Mud-Co. Brad Bortz, Engineer

DSTs: Trilobite Testing, Chris Staatz, Tester

OH Logs: Superior Well Service. Dual Induction Laterolog w/SP, CNL-FDC w/PE, GR and Caliper.

Note: Log Depths

## DSTs

DST #1 Cherokee Sand-Mississippi, 4740'-4882'. 30"-60"-60"-120", Fair blow, BOB 8" into IFP. SB BOB 30 seconds into FFP. Rec: 900' GIP, 150' Drilling mud. IHP 2233, IFP 21-50, ISIP 554, FFP 29-121, FSIP 904, FHP 2215. BHT 122 degrees.

## CREWS

Joe Livingston, Tool Pusher

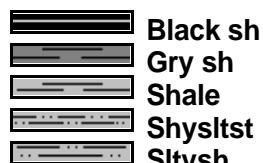
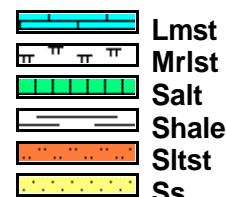
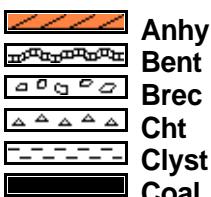
Scott Edwards, Days

Colby Crawford, Evening

Alex Ordonez, Morning

Ron Burns, Relief

## ROCK TYPES



## ACCESSORIES

**MINERAL**

- Anhy
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Ferrpel
- Ferr
- Glau
- Gyp
- Marl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt

Chlorite  
 Dol  
 Sand  
 Silt

**FOSSIL**

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra

Pelec  
 Pellet  
 Pisolite  
 Plant  
 Strom  
 Fuss  
 Oomoldic

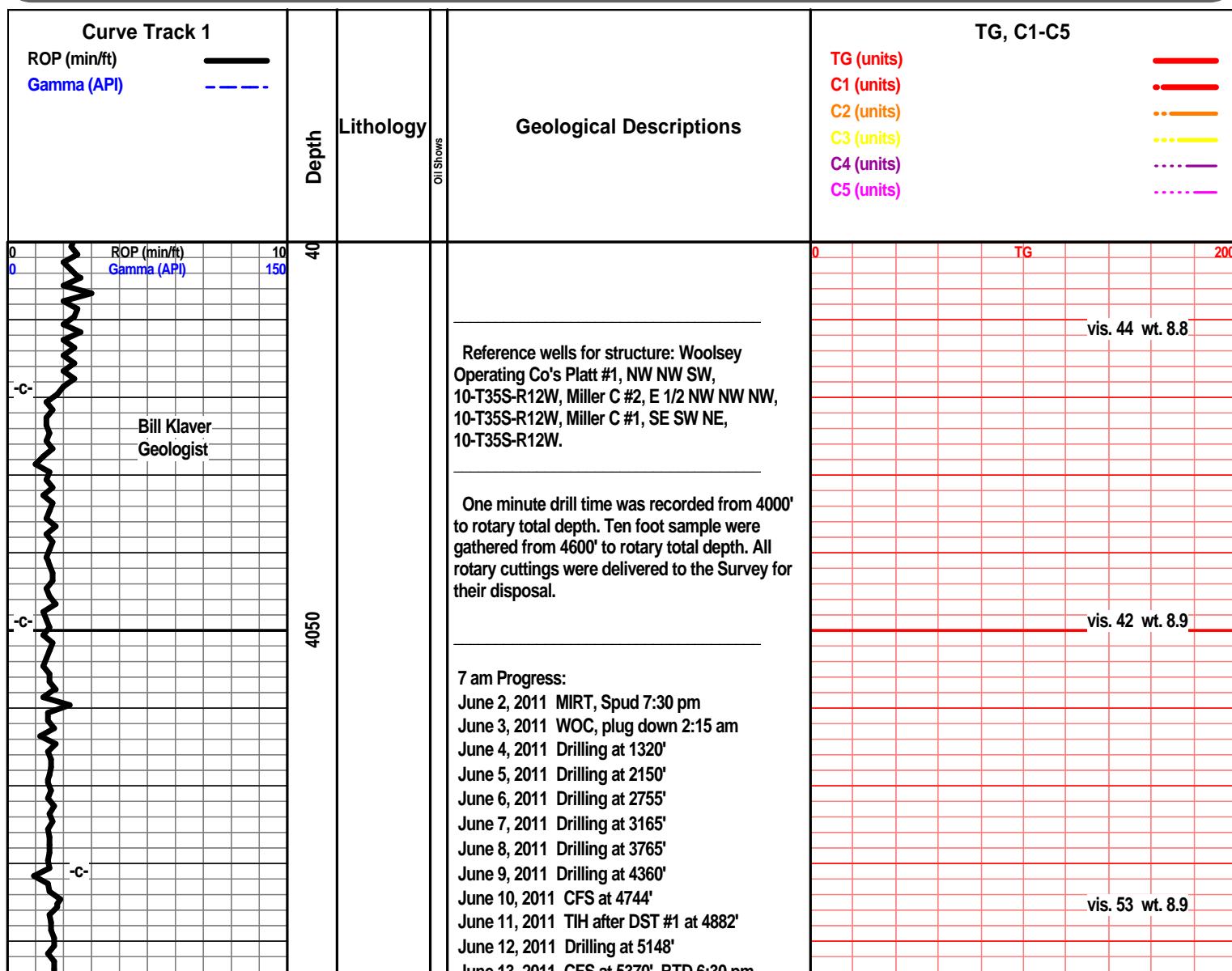
**STRINGER**

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol

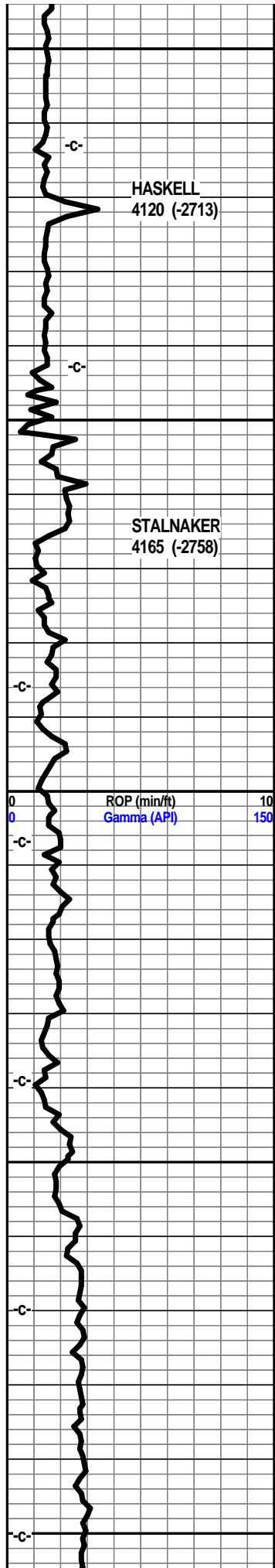
Grysh  
 GrysIt  
 Lms  
 Sandylms  
 Sh  
 Sltstn

**TEXTURE**

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest



June 13, 2011 CFS at 3370, RTD 0.00 ppm  
June 14, 2011 E-Logs out 2 am



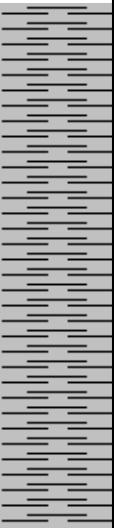
4100

4150

4200

4250

4300



E-log Top Picks:

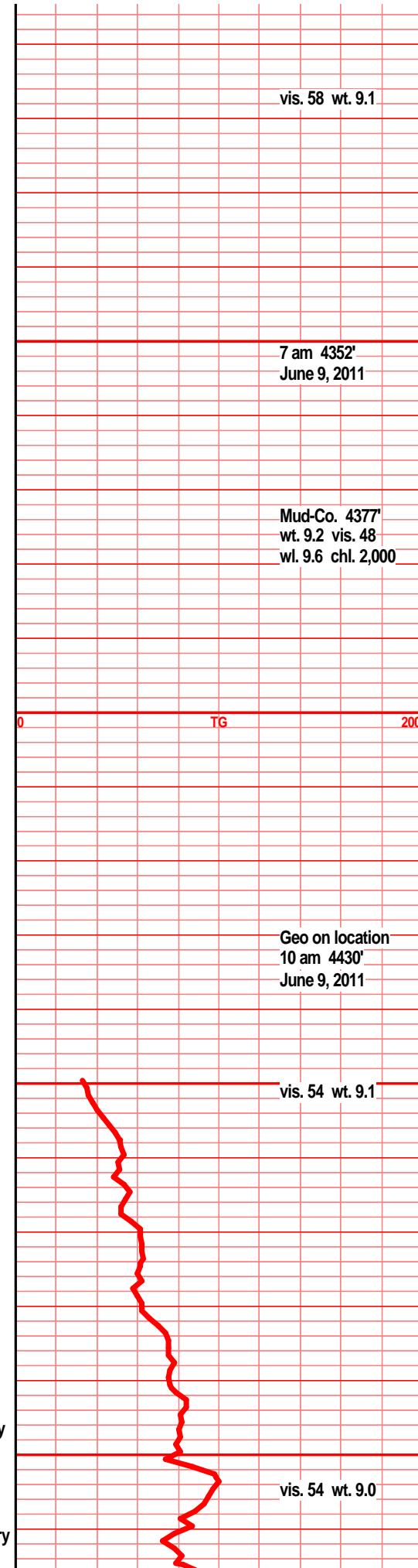
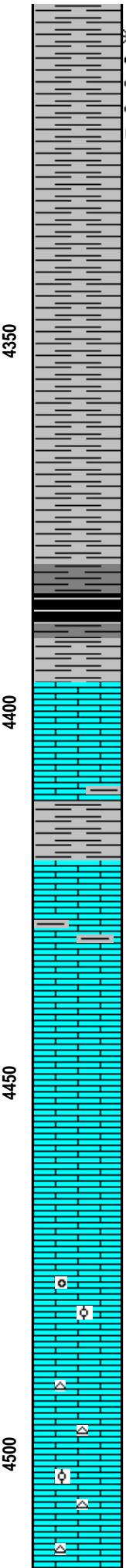
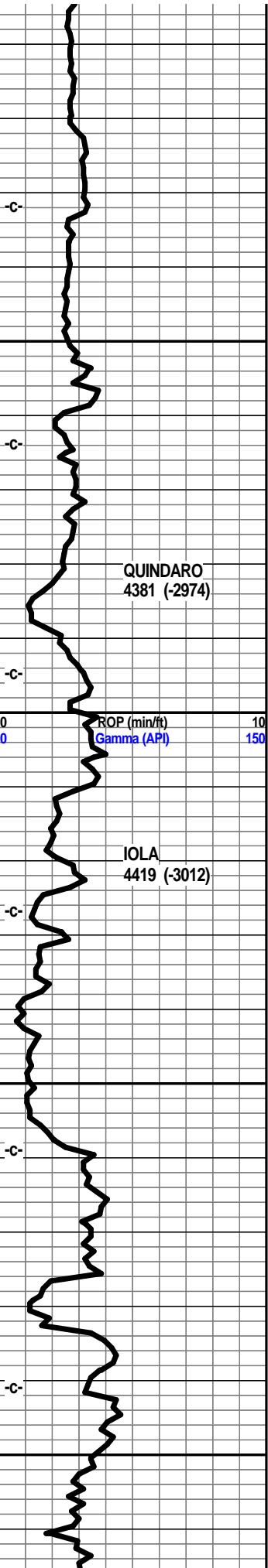
Herington  
Onaga  
Wabaunsee  
Stotler  
Topeka  
LeCompton  
Kanwaka  
Elgin Sd  
Heebner  
Toronto  
Douglas Grp  
Douglas Shl  
Haskell  
Stalnaker  
Quindaro  
Kansas City 'F'  
Kansas City 'G'  
Kansas City 'H'  
Kansas City 'I'  
Stark  
Swope  
Hushpuckney  
Hertha  
B/Kansas City  
Pawnee  
Cherokee Grp  
Cherokee Sd  
Mississippi  
C3  
C2A  
C2  
C1  
Osage  
Northview Shl  
Compton  
Kinderhook  
Woodford  
Misener Sd  
Viola  
Simpson Grp  
Wilcox  
McLish Shl  
LTD

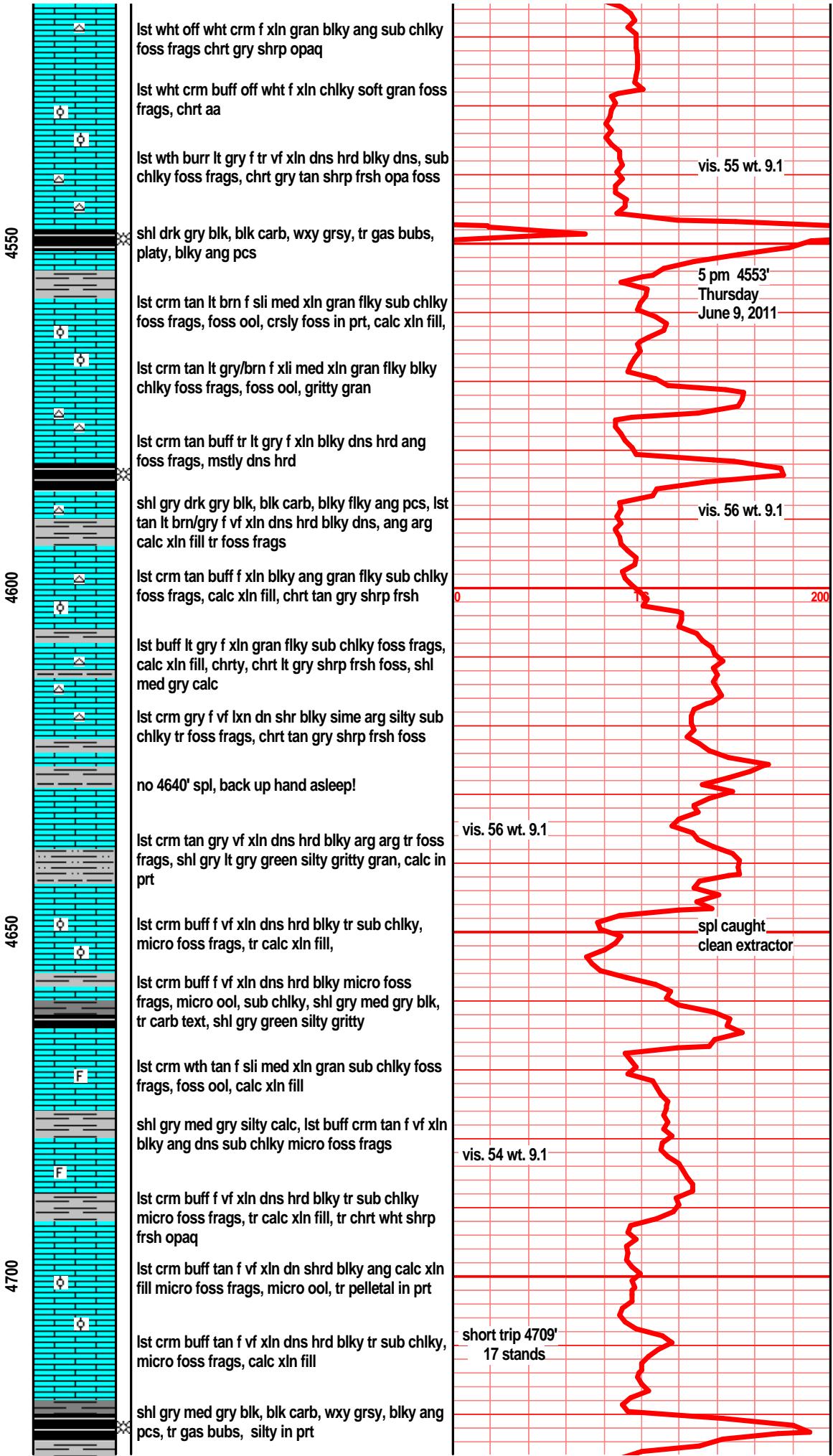
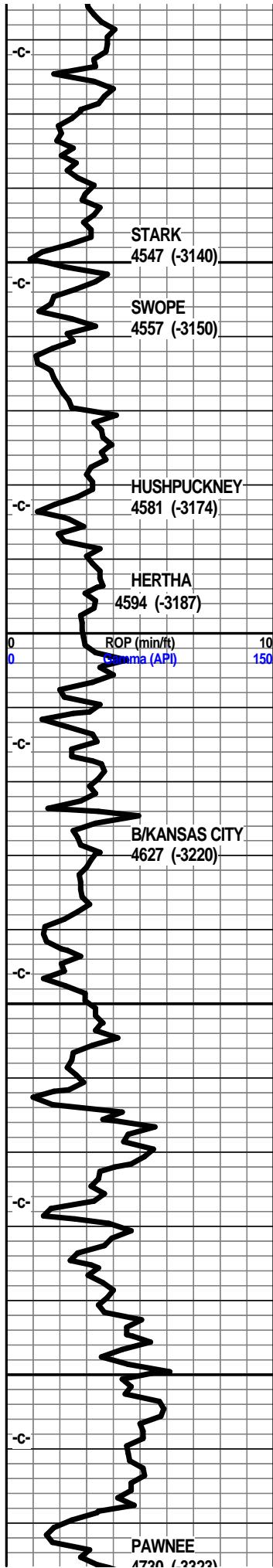
vis. 55 wt. 9.0

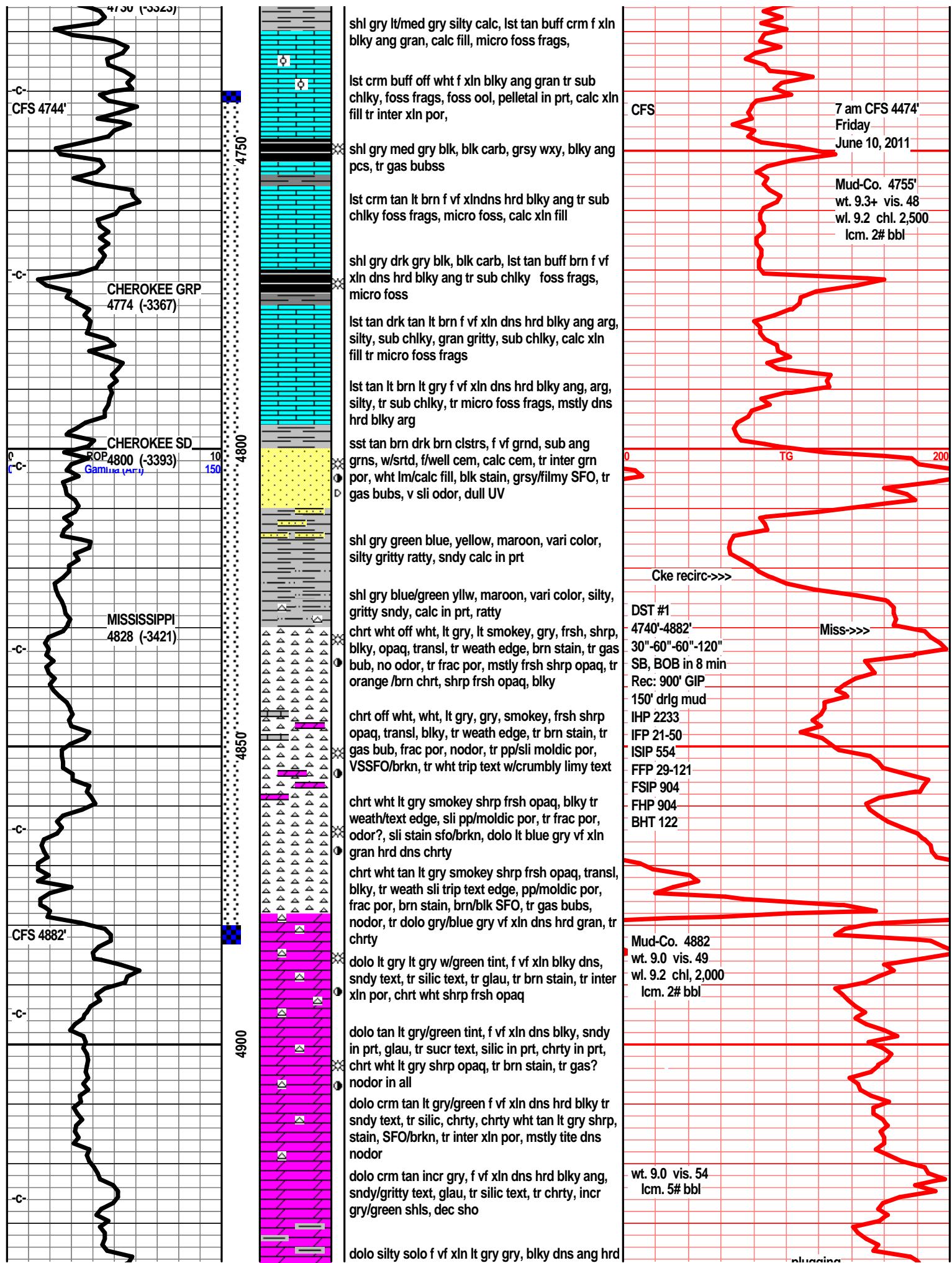
0 TG 200

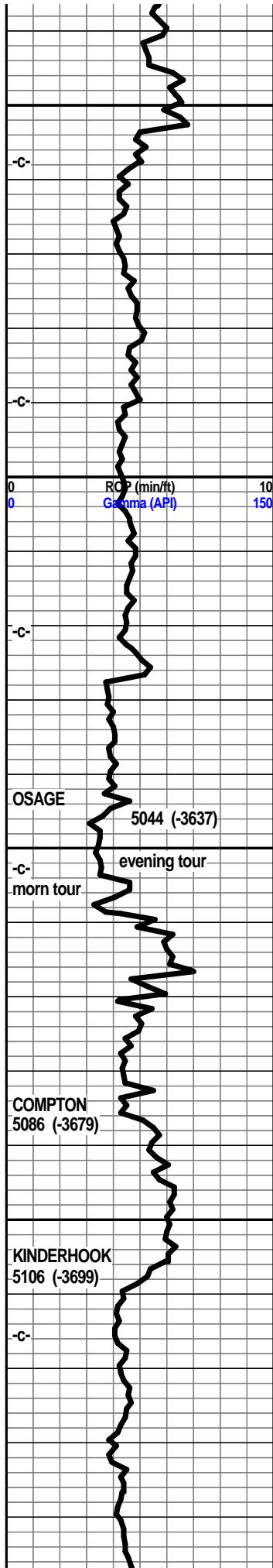
vis. 58 wt. 9.1

vis. 56 wt. 9.0



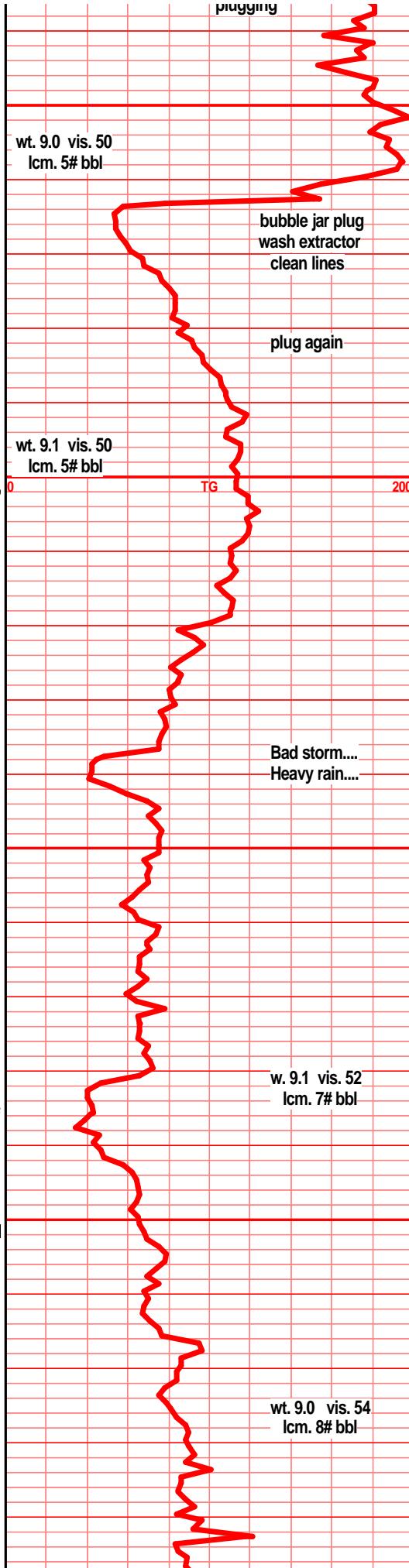


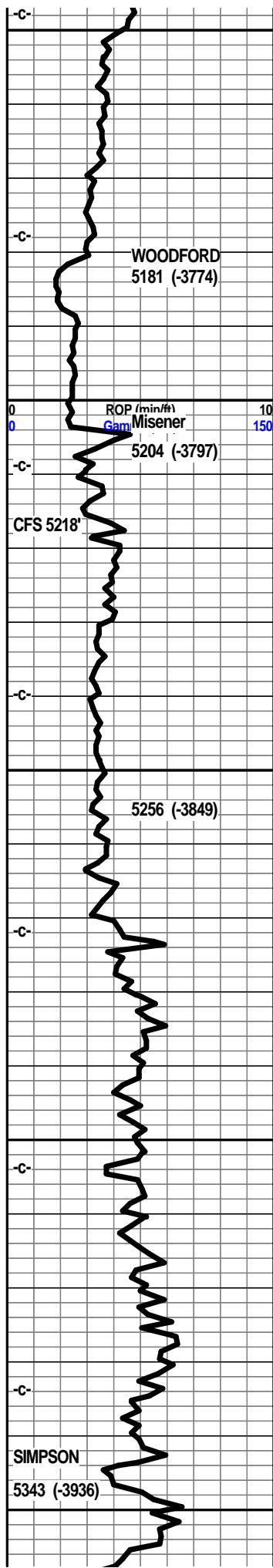




4950

tr silic text, silty arg, abun gry drk gry dolo shls  
dolo silty dolo, gry lt gry f vf xln gran dns hrd,  
silic silty text, shls gry drk med gry silty dolo,  
silic text  
dolo gry med gry, dolo siltstn calc in prt silic  
text, blk f vfn xln blk dns hrd gritty silty  
dolo silty dolo, grn med gry f vf xln gran blk  
gran dns tr silic text, hrd, shls gry med/drk gry,  
calc in prt silty  
dolo silty dolo gry med gry f vf xln gra blk dns  
hrd, tr silic text, shl med gry silty calc dol  
dolo, shly, silty calc in prt gry med gry vf xln  
gran gritty silty blk dns hrd  
dolo, silstn, silty dolo, gry med gry f vf xn dn  
shrd blk ang gran gritty silty, tr silic text, pyritic,  
dolo silty calc dolstn silty, shly, gritty gran  
pyritic, vf xln hrd blk arg silty  
dolo silty dolo, f vf xln dns hrd blk ang dns  
gritty, silic text in prt, chrt wht lt gry shrp frsh,  
vit, transl  
dolo, calc dolstn, vf xln gran gritty silty tr silic  
text, blk dns arg pcs, chrt lt gry shrp frsh transl,  
dolo, calc dolostn, vf xln gran gritty silty gran,  
arg tr silic text, blk dns hrd  
dolo, silty shly dolo aa, lsr wht f sli med xln blk  
ang filky, chrt, chrt wht shrp frsh opaq  
lsr wth off wht f vf xln dn shrd blk ang, tr chrt,  
chrt wht shrp opaq  
lsr crm tan off wht f vf xln dns hrd blk massive,  
chrt wht shrp opaq  
shl gry drk med gry, green silty gritty, calc in prt,  
shl gry gry/green/blue silty slick gritty, lsr wht off  
wht f sli med xln gran gritty in prt, filky sub chlk  
tr glau, tr pyritic  
lsr wht off wht f sli med xln blk ang filky tr sub  
chlk, micro foss, foss frags, chrt wht shrp, opaq  
foss  
shl gry, med gry/brn, silty gritty pyritic  
shl gry med gry, gry green/brn silty gritty pyritic  
shl gry gry brn blk, silty gritty, gran pyritic  
shl gry drk gry brn gritty silty





shl gry dkr gry gry/brn gritty silty pyritic

shl gry drk gry, gry/brn silty gritty, pyritic, bedded, tr gas bubs

shl gry drk gry blk/brn, silty soft gritty gran pyritic, gas bubs

shl drk gry/brn, blk, blk carb, wxy grsy, blky ang pcs, abun gas bubs

shl drk gry/brn, blk, blk carb, wxy, grsy abun gas bubs

shl blk, drk brn/red blk, blk carb, wxy, grsy, gas bubs

sst clr gry lt blk clstrs, f grnd sub ang to ang grns, (xstl faces) fair/prly srted, sub fria to tite hrds clstrs, calc cem, tr silic cem, clay clasts, tr clay fill, tr pyritic NS, sst clr tan clstrs, f sli med grnd sub ang/ang grns f/srted w/cem hrds quartitic text, clay fill, clasts, pyritic

dolo, dolo shl tan gry lt brn f xlн gran soft, lst wht off wht f med xlн blky filky sub chiky soft, marl

lst/marl, wht f xlн gran soft, crumbly, dolo/shly dolo gry tan lt brn vf xlн gran soft arg gran gritty

lst/marl wht off wht f vf xlн gran soft crumbly, shly dolo lst gry grn off wht f xlн soft gritty

lst wht off wht lt gry mott, f med xlн blky ang pcs, inter xlн por, pyritic, dolo tan lt brn vf xlн dns hrds, chrt wht opaq shrp frsh

lst wht off wht lt gry mott, f med xlн, tr crs xlн text, inter xlн por, pyritic fill, chrt in prt, chrt wht opaq transl, dolo tan dull gry vf xlн silic text, dns hrds

90° recirc spls—spl poor

lst wht off wht lt gry f sli med xlн blky ang filky tr sub chiky tr foss frags, chrt, chrt wht shrp frsh, chrt dull tan gry shrp frsh foss

lst aa, lst/dolo in prt gry tan vf xlн dns hrds blky tr silic text, gran, gritty, chrt, chrt dull tan gry shrp frsh foss

lst dolo in prt tan crm brn mott in prt, f vf xlн silic in prt, dns hrds blky, chrt, chrt dull tan shrp frsh blky foss

lst-dolo in prt tan brn, f vf xlн dns hrds blky, sub chiky, tr foss frags, chrt, chrt dull tan gry shrp frsh opaq

lst/dolo tan lt brn f vf xlн dns hrds blky gran, chrt, chrt dull tan/gry shrp frsh opaq, blky foss

lst/dolo aa, chrt dull tan shrp frsh opaq, shl gry, green teal green silty, wxy, tr silty, dolo tan brn vf xlн snyd gritty, blky hrds, tr drk brn stain, odor/brkn?

dolo snyd dolo tan brn f grnd/xln blky ang inter xlн por, brn stain SSFO nodor, sst lt gry green

