



## Woolsey Operating Company, LLC

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

Well Name: Forester F-2  
Location: E/2 NE NW  
License Number: API: 15-007-23760-00-00  
Spud Date: September 13, 2011  
Surface Coordinates: 660' FNL, 2310' FWL Section 26-Twp 33 South - Rge 11 West  
Roundup South Pool  
Bottom Hole Coordinates: Vertical Hole  
Region: Barber County, Kansas  
Drilling Completed: September , 2011  
Ground Elevation (ft): 1477' K.B. Elevation (ft): 1486'  
Logged Interval (ft): 4000' To: 5065' Total Depth (ft): 5065'  
Formation: McLish Shale  
Type of Drilling Fluid: Chemical Mud, Displace at 3400'.  
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: W. Scott Alberg  
Company: Alberg Petroleum, LLC  
Address: 609 Meadowlark Lane  
Pratt, Kansas 67124

## FORMATION TOPS

	SAMPLE TOPS	LOG TOPS
STARK SHALE	4309(-2823)	
HUSHPUCKNEY SHALE	4339(-2853)	
B/KC	4398(-2912)	
PAWNEE	4487(-3001)	
MISSISSIPPIAN	4537(-3051)	
KINDERHOOK SHALE	4754(-3268)	
WOODFORD SHALE	4830(-3344)	
VIOLA	4869(-3383)	
SIMPSON GROUP	4966(-3480)	
SIMPSON WILCOX	4992(-3506)	
MCLISH SHALE	5026(-3540)	
RTD	5065(-3579)	

## COMMENTS

Surface Casing: Set 6 joints 10 3/4" at 246' with 240 sxs Class A, 2% gel, 3% cc, plug down at 9:45 pm on September 13, 2011. Cement did Circulate.

Production Casing:

Deviation Surveys: 250' 3/4, 1228' 3/4, 1698' 3/4, 2228' 1, 2693' 3/4, 3201' 1, 3703' 3/4, 3891' 1, 4017' 1 1/4, 4111' 2, 4142' 1, 4558' 1 1/4,

Contractor Bit Record: 1- 14 3/4" out at 250'.

2- 7 7/8" out at 4964' (Varrel HE-21)

3 -7 7/8" out at 5065' (Varrel A2 29 RR)

Pipe strap at 4558', Strap: 4550.97', Board: 4550.06', Strap .91' long.

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Brad Bortz, Justin Whiting, Engineers

DSTs: Superior Testing

Logged by Superior Well Services

LTD

## DSTs

DST #1 4550 to 4558'

Times 30-60-60-120

1st Opening, Weak blow to 1 1/2 inches in bucket.

2nd Opening No blow, flushed tool, no help.

Recovery: 10' Drilling Mud

IFP 63-81 FFP 74-165



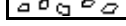

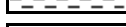










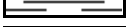







ISIP 113 FSIP 226

IHP 2177 2164















































































## CREWS

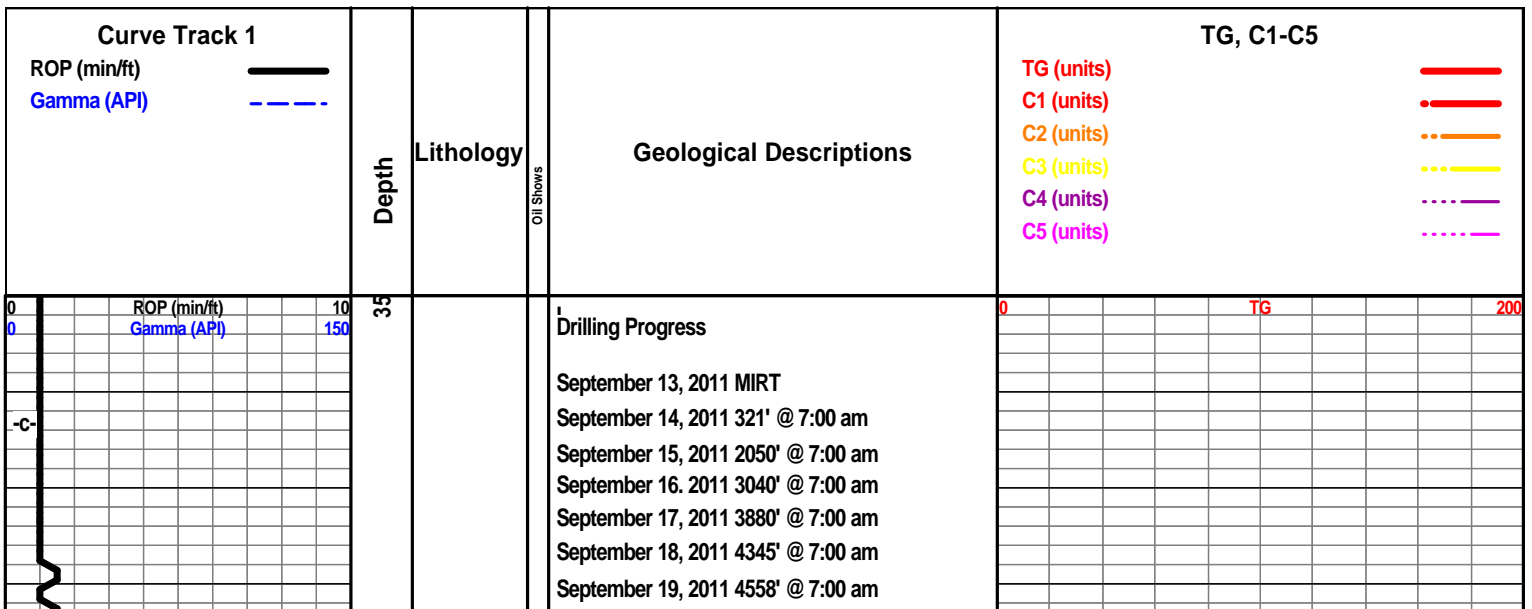
H2 Drilling Rig #3  
 Tool Pusher - Randy Smith  
 Drillers - Gary Axtell  
 Luis Marquez

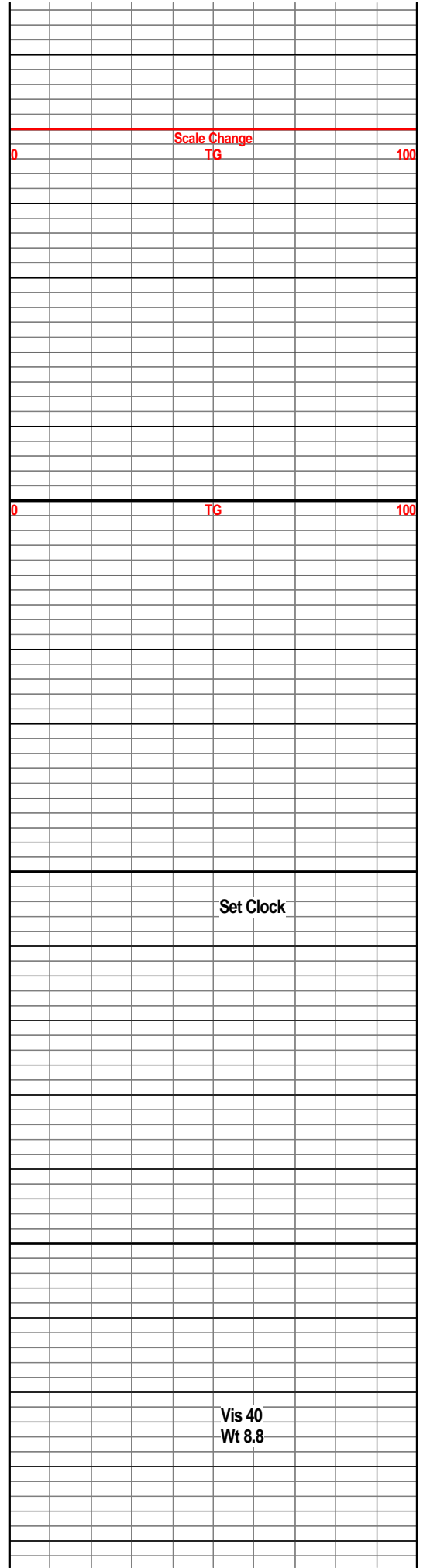
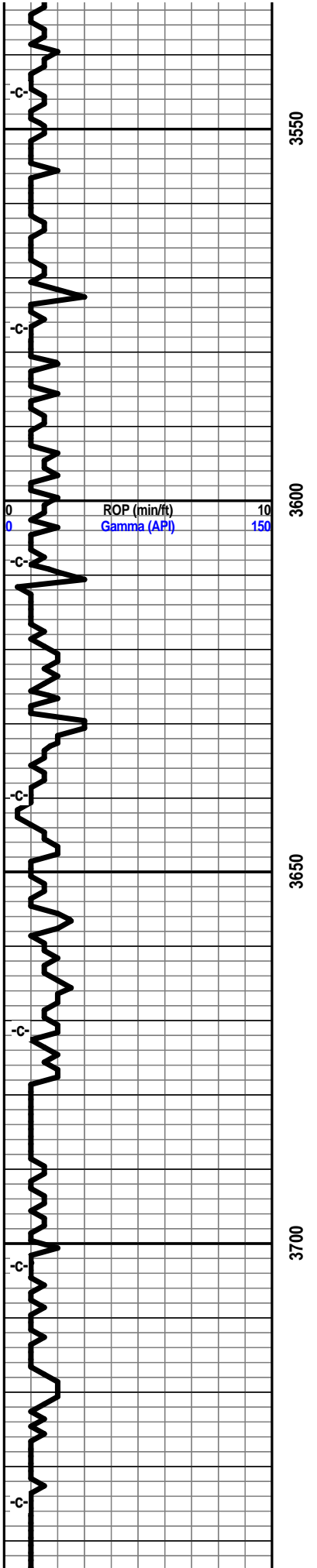
## ROCK TYPES

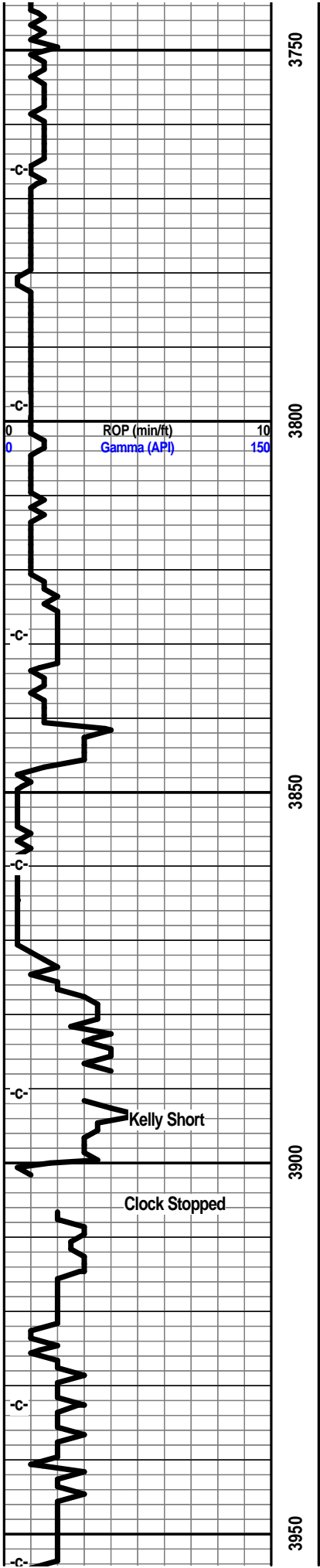
 Anhy  Bent  Brec  Cht  Clyst  Coal	 Congl  Sdy dolo  Shy dolo  Dol  Gyp  Sdy lmst	 Lmst  Mrlst  Salt  Shale  Sltst  Ss	 Black sh  Gry sh  Shale  Shyslts  Sltsh
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## ACCESSORIES

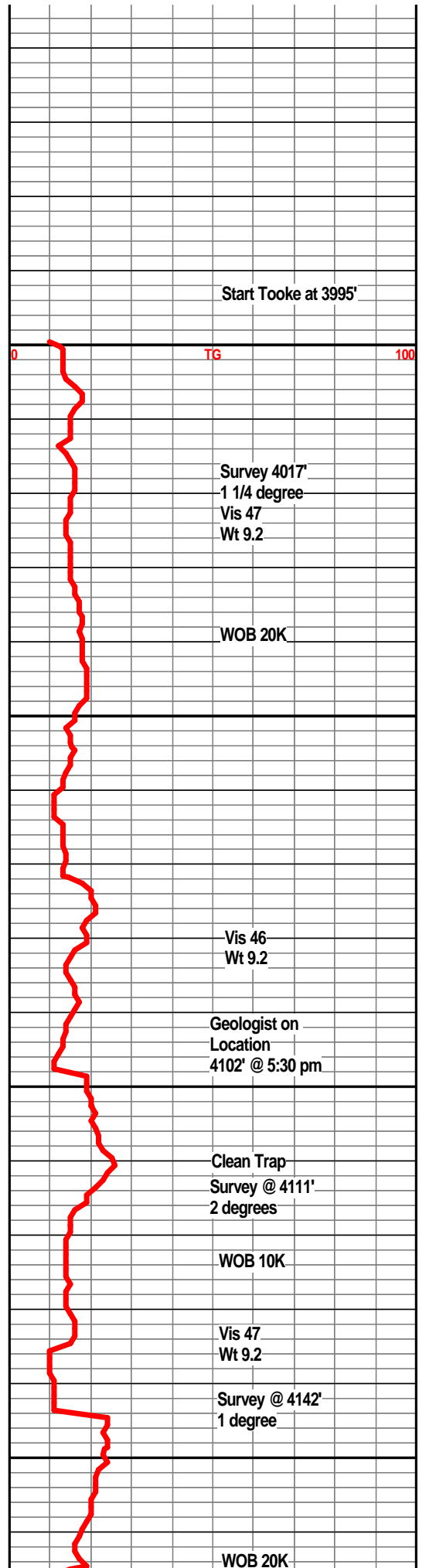
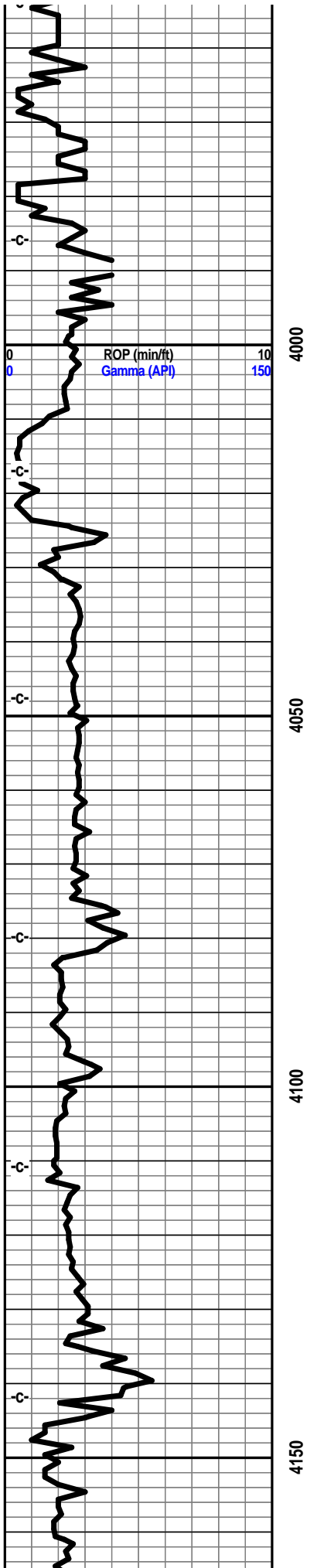
<b>MINERAL</b>  Anhy  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Ferrpel  Ferr  Glau  Gyp  Marl  Nodule  Phos  Pyr  Salt  Sandy  Silt	 Chlorite  Dol  Sand  Sltly  <b>FOSSIL</b>  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pellet  Pisolite  Plant  Strom  Fuss  Oomoldic  <b>STRINGER</b>  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst  Sltstrg  Ssstrg  Carbsh  Clystn  Dol	 Grysh  Gryslt  Lms  Sandylms  Sh  Sltstn  <b>TEXTURE</b>  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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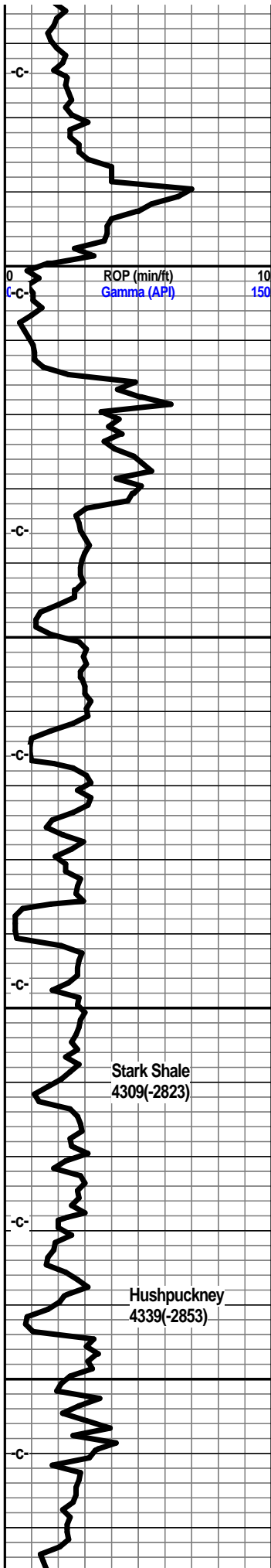






0	<b>TG</b>	100
Vis 42 Wt 8.8		
Vis 41 Wt 9.1		
September 17, 2011 3880' @ 7:00 am		
Survey 3891' 1 degree		
Mud Co Mud Check September 17, 2011 3922' @ 8:50 am Vis 46 Wt 9.05 pH 11.0 WL 9.6 Chl 3100 ppm LCM trace		



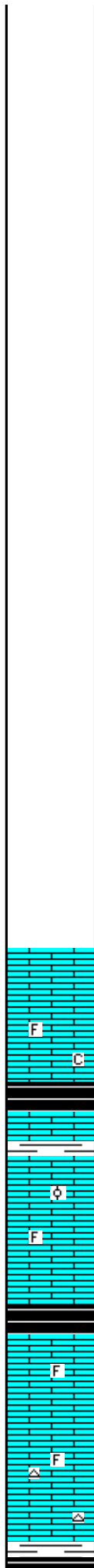


4200

4250

4300

4350



Limestone, tan-white, brown, xln, foss., fossil frags, some cast porosity, chalky in part.

Shale, grey-black, carb.

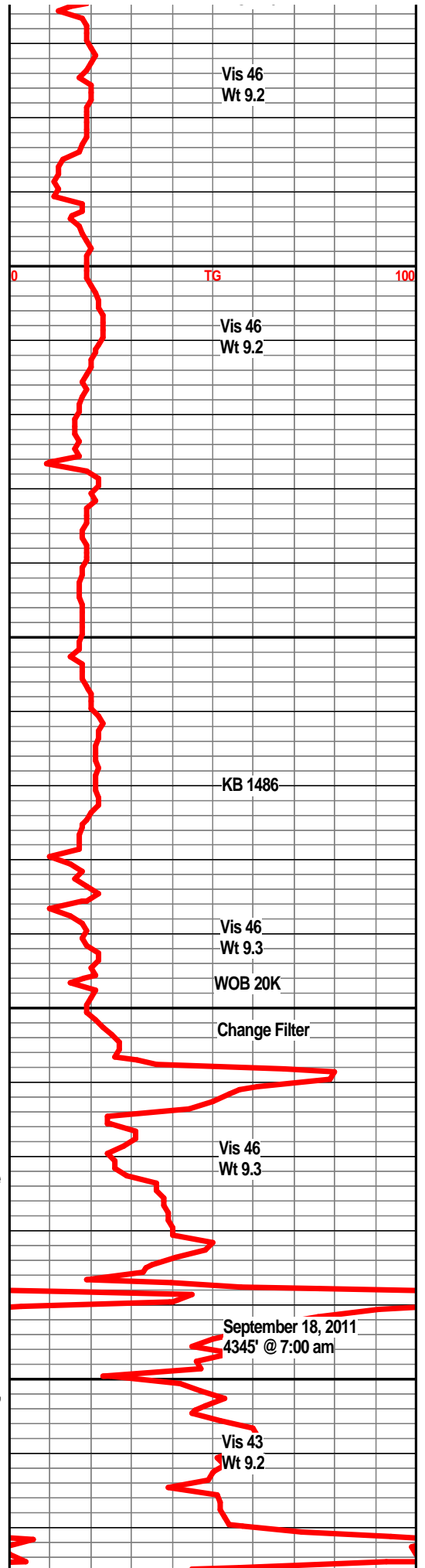
Limestone, cream-white, xln, trace oolities some oolitic porosity, trace xln porosity, no visible shows.

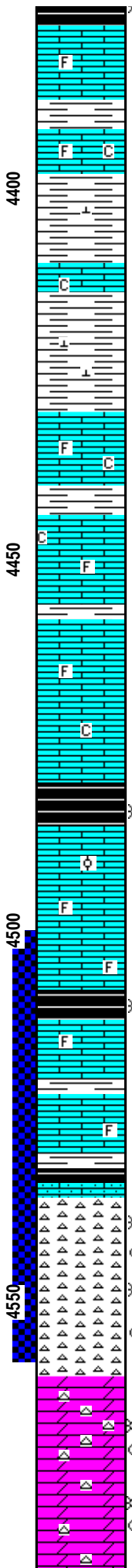
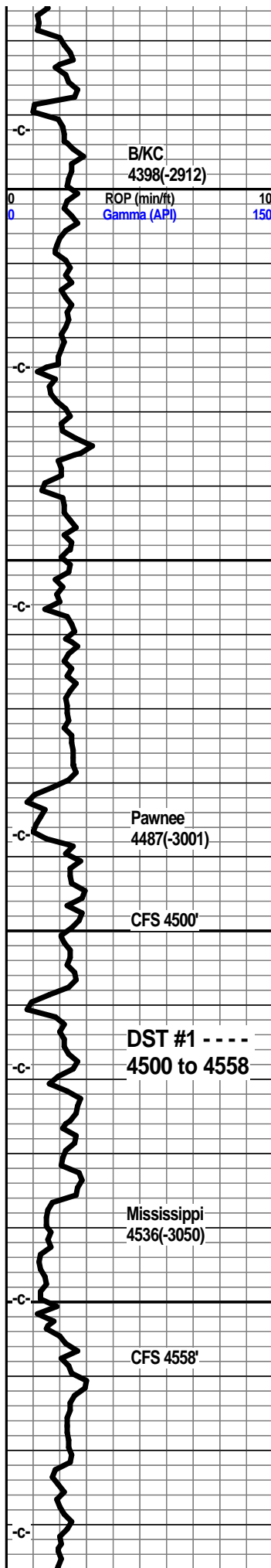
Shale, grey-black, carb.

Limestone, cream-white, tan, brown, xln, fossils, foss porosity, some xln porosity, no visible shows.

Limestone, a/a more brown, trace tan-brown chert.

Shale, grey-black, carb.





Shale, grey-black, carb.

Limestone, tan, tan-grey, xln, dense, trace foss., no visible shows.

Shale, grey.

Limestone, grey-white, xln, foss, slightly chalky.

Shale, grey-green, calcitic, foss.

Limestone, grey-green, xln, shaley.

Shale, grey-green, maroon, calcitic, some lime streaks.

Limestone, cream, tan, xln, dense, trace foss, slightly chalky in part.

Shale, light grey.

Limestone, grey-white, buff, xln, dense, trace foss, trace chalky.

Shale, light grey.

Limestone, cream, buff, xln, dense, trace foss, traces of tan cherts, slightly subchalky.

Shale, grey-black, carb

Limestone, cream, buff-white, xln, trace oolites, scattered xln porosity, dull min. fluor., very slight trace gas, no odor, no visible show of oil, slightly foss.

Shale, grey-black, carb.

Limestone, buff, tan, xln, dense, slightly foss.

Shale, grey.

Limestone, cream, tan, xln, dense, slightly foss.

Shale, dark grey.

Limestone, grey-white, tan, some green, xln, sandy, dense, no visible shows.

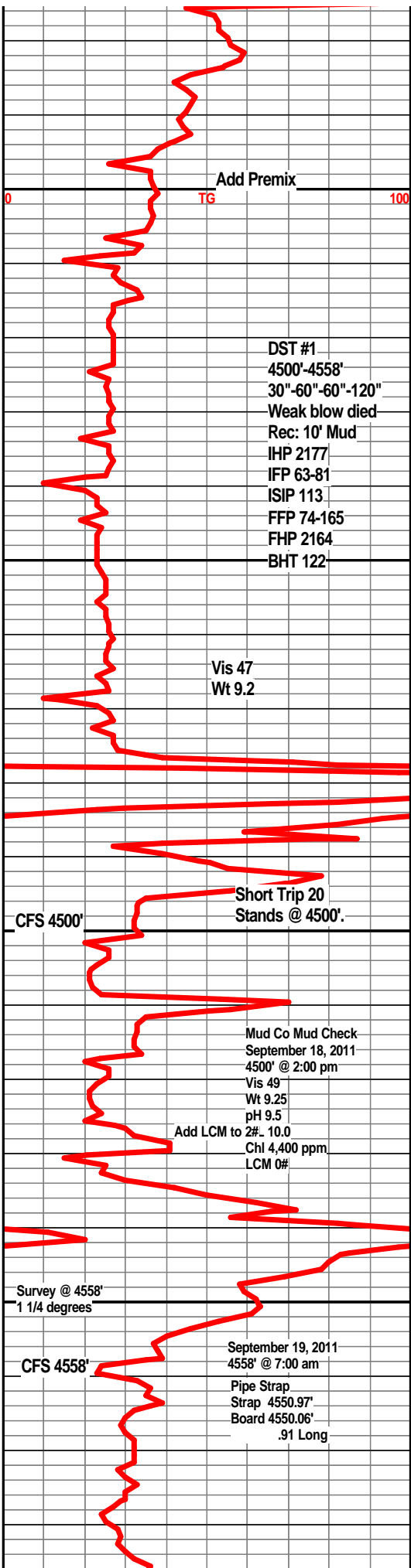
Chert, off-white, tan, buff, translucent, weathered in part, small scattered vugs & pin point porosity, fair odor, slight show gas bubbles, light show oil under uv light, light brown golden scattered staining.

Chert, off-white, translucent, sharp, weathered, fair odor, small scattered pin point porosity, slight show light oil and gas bubbles, scattered bright fluor., light brown staining.

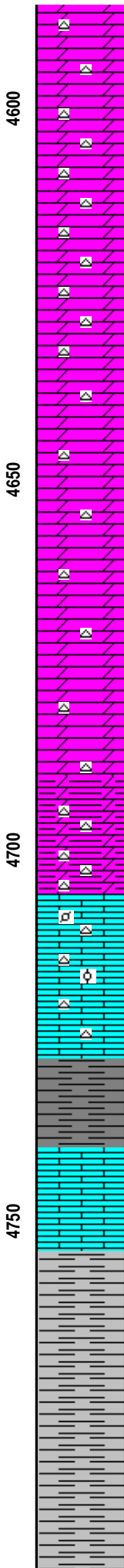
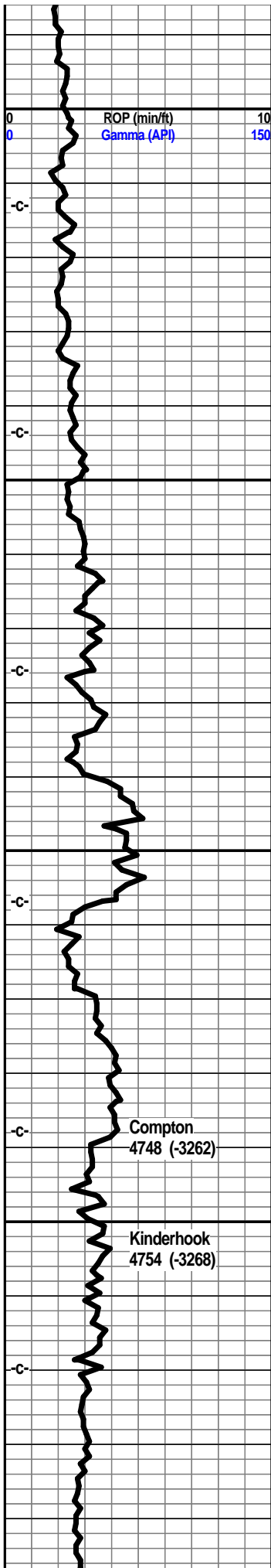
dolo lt gry lt grn tint, f vfxln blkly ang dns hrd silic text, tr glau, tr brn stain, tr gas bubs, sli odor, chrt wht off wht tr lt gry, shrp frsh, tr dolo edge, tr stain, vsli odor

dolo lt tan, w/gry lt grn tint, f vf xln blkly ang dns pcs, silic text, tr sli inter xln por, lt tan stain, gas bubs, lt filmy SFO, faint odor, tr wht off wht opa q frsh chrt

dolo off wht lt arv. arn tint. f vf xln dns blkv pcs.







dolo tan lt gry, grn silty, tr silic text, chrt in prt, chrt wht lt gry shrp frsh opa, dec sho

dolo, calc in prt, lt off wht lt gry green tint, f vfxln blkly dns hrd, silic in prt, chrt, chrt wht lt gry shrp frsh tr stain nodor, dec sho w/depth

dolo off wht tan green tint f vf xln dns hrd blkly pcs, tr silic text, tr glau, tr lt tan stain, nodor, chrt in prt, chrt wht shrp frsh opa

dolo off wht lt gry/grn tint f vf xln dns hrd blk ang pcs, tr glau, chrt in prt, chrt wht lt gry shrp frsh opa

dolo tan bec lt gry gry f vfxln dns hrd gran, bec silty, gritty, tr silic text, tr chrt wht gry shrp frsh

dolo drk tan lt gry f vf xln gran gritty silty calc in prt, dns hrd, tr chrt wht gry shrp frsh

dolo lt gry gry f vf xln gran silty gritty arg in prt, tr silic text, chrt wht lt gry shrp frsh

dolo drk tan /lt gry gry f vfxln dns hrd blkly silty gritty gran silic text in prt, chrt lt gry shrp frsh opa

dolo lt gry, incr gry w/depth, f vf xln dns hrd, gran, gritty in prt, arg silty, chrt aa

dolo gry med gry vf xln dn shrd gritty gran silty arg, tr chrt lt gry shrp frsh opa

dolo gry med gry f vf lxn dns gran gritty silty, tr silic text, gry med gry silty dolo tr calc shls

dolo lt tan/lt gry f vf xln gran gritty, tr silty, arg, silic in prt, chrt wht lt gry shrp frsh opa, tr gas bubs

lst wht off wht f sli med xln blk ang pcs, tr foss frags, foss ool, chrt in prt, chrt wht shrp frsh foss opa

lst wht lt crm f sli med xln blkly ang tr sub chlky, foss pelletal, tr ool/frags, chrt, chrt wht shrp frsh foss opa

shl gry, drk gry green silty gritty, tr calc/dolo in prt,

shl drk gry/green silty gritty, soft gran calc in prt

lst crm off wht tan f vf xln blkly ang sub chlky, tr foss frags, tr calc fill, spl wsh wht,

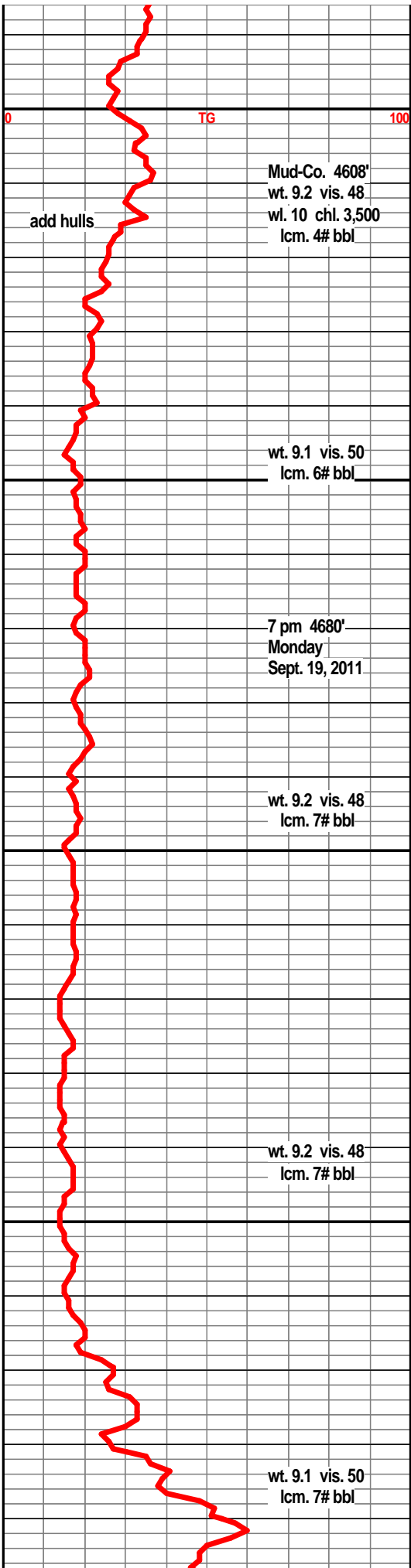
shl gry med/drk gry silty gritty,

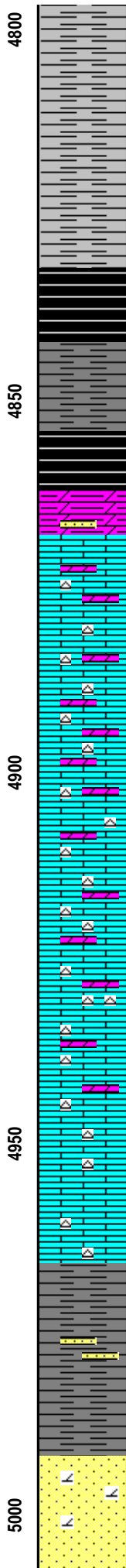
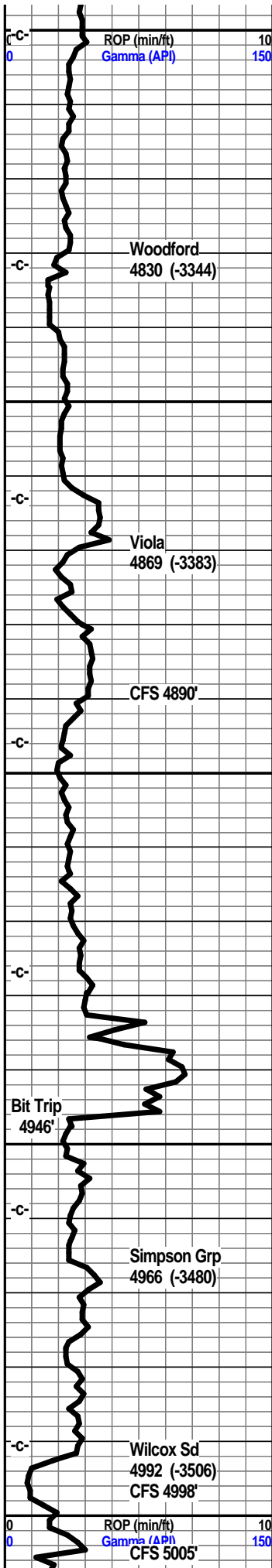
shl gry med/drk gry silty

shl gry, drk gry, silty gritty, gran in prt

shl gry drk gry silty gritty, tr pyritic, tr gas bubs

shl drk gry/blk, drk red blk, silty gritty, blkly ang





shl drk gry blk, blk, platey, silty, gritty, blkly ang pcs, tr gas bubs

shl gry drk gry, gry blk, silty, gritty, blkly ang platey pcs, tr pyritic, tr gas bubs

shl drk gry, drk gry blk, silty, gritty, tr pyritic beds, tr gas bubs

shl gry drk gry blk, blk sub carb, gas bubs, pyritic bands

shl drk brn/reddish blk, blk, platey blkly pcs, sub carb, wxy, grsy, abun gas bubs

shl gry drk gry blk, dark brn/red blk, pyritic inclu, sub carb in prt, abun gas bubs

shl gry brn, silty, gritty, silty sst, brn f grnd, sub ang, prly srted, v/pyritic, mstly gry dolo shl w/snd grn inclu, tr gas bubs

dolo wht gry vf xln dns hrd, sli suc text, 1st wht off wht tr wht/lt gry mott, f sli med xln, tr foss frags, sub chlky, inter xln por, tr blk flky dead stain, sli gas bubs, filmy SFO as bubs break, nodor, chrty in prt, chrt wht shrp frsh opa q foss frags

1st off wht lt gry mott, f sli med xln blkly ang, sub chlky, tr foss frags, tr pyritic, inter xln por, chrty, chrt wht opa q frsh, dolo tan vf xln dns hrd, silic text, chrty, chrt dull tan shrp frsh foss

1st wht off wht gry mott f sli med xln, flky, blkly sub chlky, tr foss frags, pyritic, inter xln por, chrty, dolo tan lt brn vf xln dns hrd, tr suc text, chrty, tr foss frags, chrt dull tan shrp frsh blkly

1st, dolo in prt, tan dull tan, f vfxln gran dns hrd blkly, tr suc text, chrty, chrt tan dull tan shrp frsh foss

1st dolo in prt, wht lt gry mott, f sli med xln blkly ang flky sub chlky, tr foss, chrt wht shrp frsh, dolo tan lt brn f vf xln dns hrd blkly tr suc text, chrty, pyritic, chrt dull gry/tan shrp frsh foss

1st dolo in prt, crm tan lt dull brn vf xln dns hrd blkly pcs, chrty, chrt dull tan gry shrp frsh opa q foss

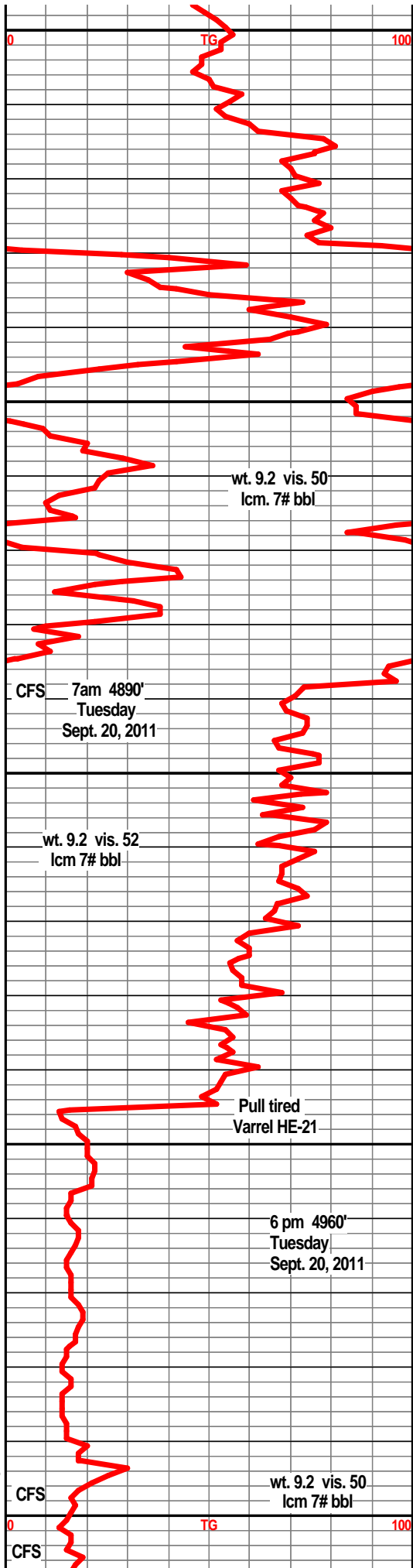
1st dolo in prt, tan crm lt brn, tan brn mott, f vf xln gran sub chlky tr suc text, chrty, much chrty, dull tan brn shrp frsh opa q

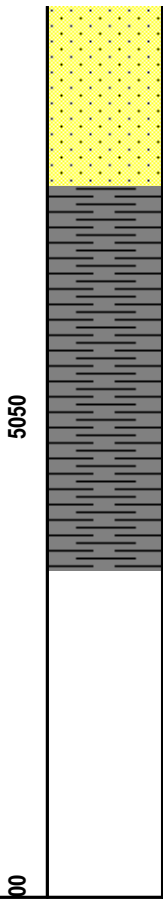
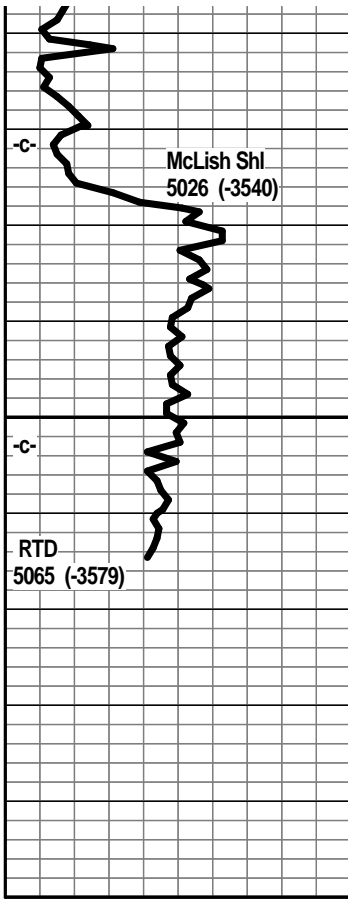
shl gry green, teal green, wxy grsy, silty, tr sst gry, dolomitic, f grnd sub ang grms, prly srted, w/cem, pyritic, hrd dns clstrs, min fill,

shl drk gry/green, deep teal green, silty, wxy, grsy, snd grn inclu, pyritic, bedded

sst drk tan clstrs, f grnd, sub ang grms, prly srted, w/cem, dolomitic, silic cem, hrd ang clstrs, tr gas bubs, VSSFO, mstly brn oil smears w/brkn, nodor

sst wht clr clstrs, f grnd, sub rded grns, w/srted, prly cem, blkly ang clstrs, prly to fair cem, min





fill, dolo fill, NS

sst clr lt tan clstrs, f grnd, sub rded grns, fairly srted, pr to fair cem, silic cem, tr calc, sub fria, min fill, tr pyritic, mstly blk ang hrd clstrs in spls, tr loose grns in tray

shl drk gry green, blue gry wxy grsy

shl gry/green, teal green silty, wxy grsy

shl gry drk gry green, teal green, silty, wxy grsy, pyritic, snd grn inclu

shl gry green, teal green, silty, slick, wxy grsy, snd grn inclu, pyritic

