



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Landis #3

Location: N/2 SW SW NW

License Number: API: 15-007-23627-00-00

Spud Date: November 22, 2010

Region: Barber County, Kansas

Drilling Completed: December 1, 2010

Surface Coordinates: 2160' FNL, 330' FWL Section 16-Twp 34 South - Rge 11 West
Schuplach Southwest Pool

Bottom Hole Coordinates: Vertical Hole

Ground Elevation (ft): 1369

K.B. Elevation (ft): 1378

Logged Interval (ft): 3600 To: 5150 Total Depth (ft): 5150

Formation: McLish Shale

Type of Drilling Fluid: Chemical Mud, Displace at 3400'

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 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
HUSHPUCKNEY SHALE	4370(-2992)	4368(-2990)
B/KC	4423(-3045)	4418(-3040)
PAWNEE	4513(-3135)	4512(-3134)
CHEROKEE GROUP	4564(-3186)	4562(-3184)
CHEROKEE SAND	4588(-3210)	4584(-3206)
MISSISSIPPIAN	4615(-3237)	4613(-3235)
COMPTON LIMESTONE	4798(-3420)	4797(-3419)
KINDERHOOK SHALE	4810(-3432)	4810(-3432)
WOODFORD SHALE	4890(-3512)	4890(-3512)
VIOLA	4915(-3537)	4918(-3540)
SIMPSON GROUP	5042(-3664)	5042(-3664)
SIMPSON WILCOX	5064(-3686)	4068(-3690)
MCLISH SHALE	5112(-3734)	5112(-3734)
MCLISH SAND		
RTD	5150(-3772)	
LTD		5151(-3773)

COMMENTS

Surface Casing: Set 6 joints 10 3/4" at 231' with 230 sxs Class A, 2% gel, 3% cc, plug down at 1:00 am on November 23, 2010. Cement did Circulate.
Production Casing: 5 1/2" Casing Ran.
Deviation Surveys: 230' 3/4, 1254' 3/4, 1794' 1, 2303' 1/4, 2841' 1, 3256' 3/4, 3256' 3/4, 3734' 3/4, 3957' 2, 4028' 2, 4082' 3/4, 4114' 3/4, 4593' 1, 5150' 3 (Dropped w/o crows foot & float)
Contractor Bit Record: 1- 14 3/4" out at 240'.
2- 7 7/8" out at 5150'.

Gas Detector: Woolsey Operating Company, Trailer #2
Mud System: Mud Co, Brad Bortz, Engineer
Logged By Superior Well Services

LTD 5151'


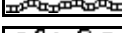
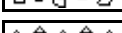
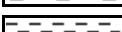
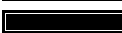















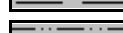


DSTs

No DST's Ran on this well.





























































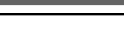

















CREWS

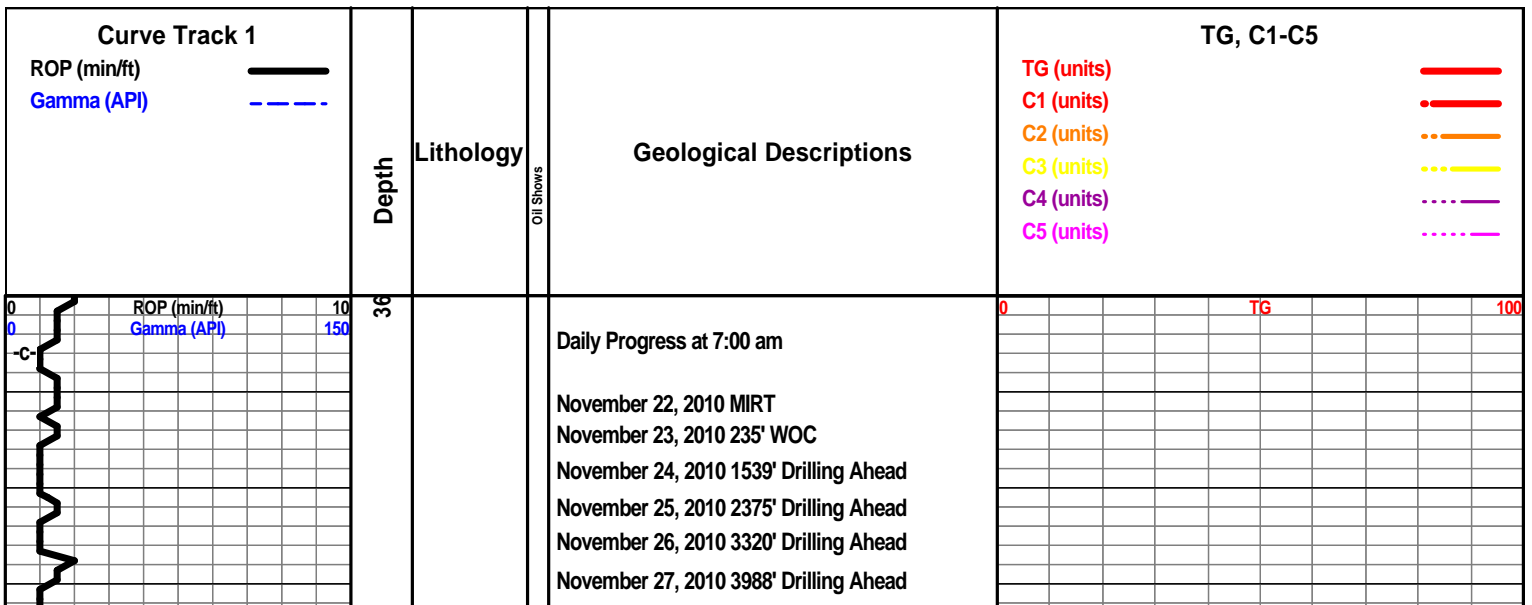
H2 Drilling Rig #3
 Tool Pusher - Randy Smith
 Drillers - Mark Staats
 Gary Axtell
 Cesar Regalado

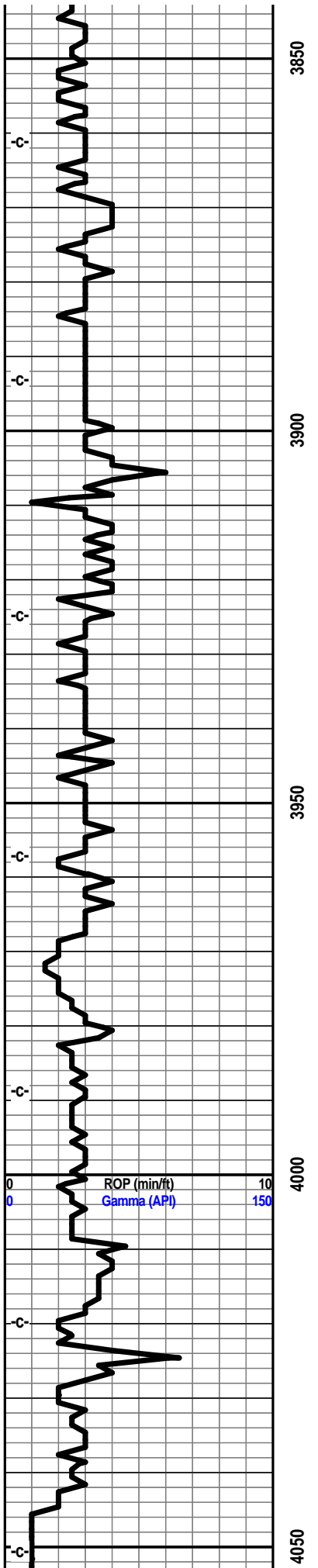
ROCK TYPES

 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  Shyslstst  Sltysh
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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  Silty 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  Gryslt  Lms  Sandylms  Sh  Sltstn TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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RPM 90
WOB 25,000#

Vis 52
Wt 9.1

3957'
Survey 2 degrees

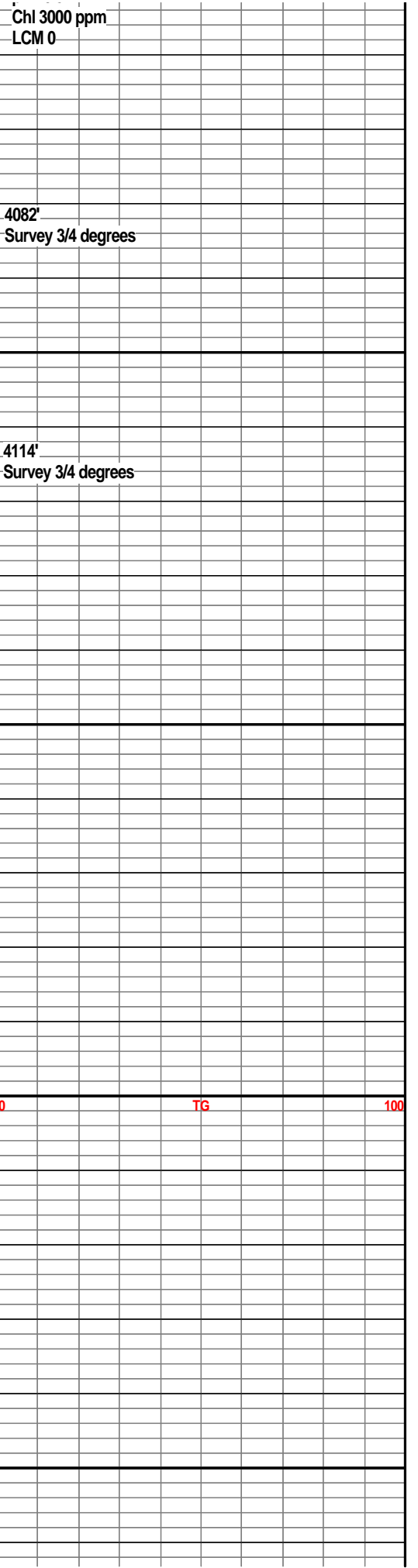
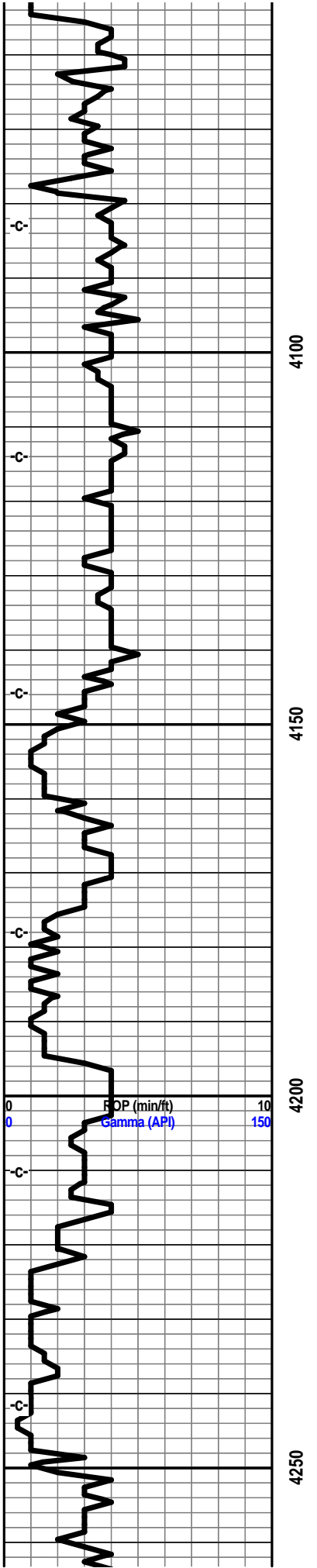
RPM 120
WOB 18-19,000#

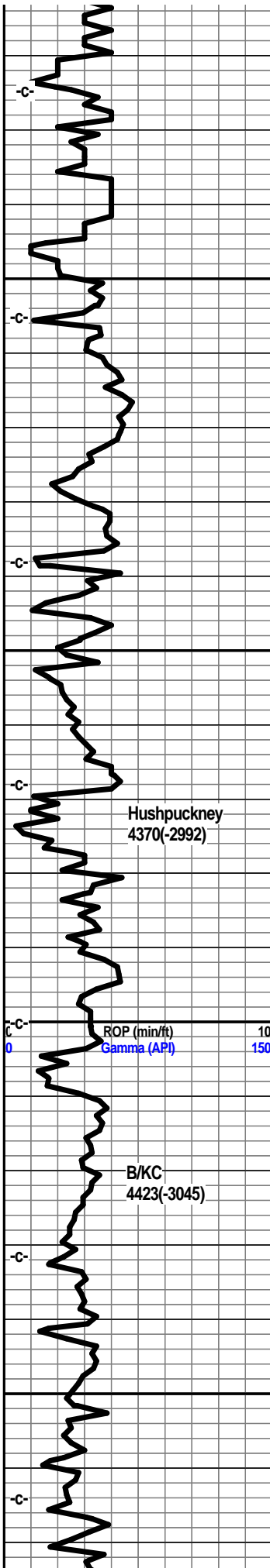
November 27, 2010
3988' @ 7:00 am
Drilling Ahead

0 TG 100

4028'
Survey 2 degrees

Mud Co Mud Check
4041'
November 27, 2010
@ 10:30 am
Vis 47
Wt 9.2
WL 9.2
pH 10.5





4300

4350

4400

4450

Hushpuckney
4370(-2992)

B/KC
4423(-3045)



Shale, Grey-black, carb.

Limestone, cream-white, fxln, sl foss, sub chalky in part.

Limestone, cream, tan-white, foss., chalky.

Shale, grey-black, carb.

Limestone, cream-white, xln, foss in part, sub-chalky, traces of chert.

Shale, grey, lt grey, sl limey.

Limestone, cream, tan, tan-white, fmxln, foss., trace of tan cherts.

Shale, grey-black, silty.

Limestone, tan, tan-white, xln, dense, trace of shale stringers, foss in part.

Shale, grey, lt grey.

Geologist on location at 4265'.
November 27, 2010
10:30 pm

Start
Tooke DAQ at 4275'

Vis 48
Wt 9.2+

Vis 52
Wt 9.3

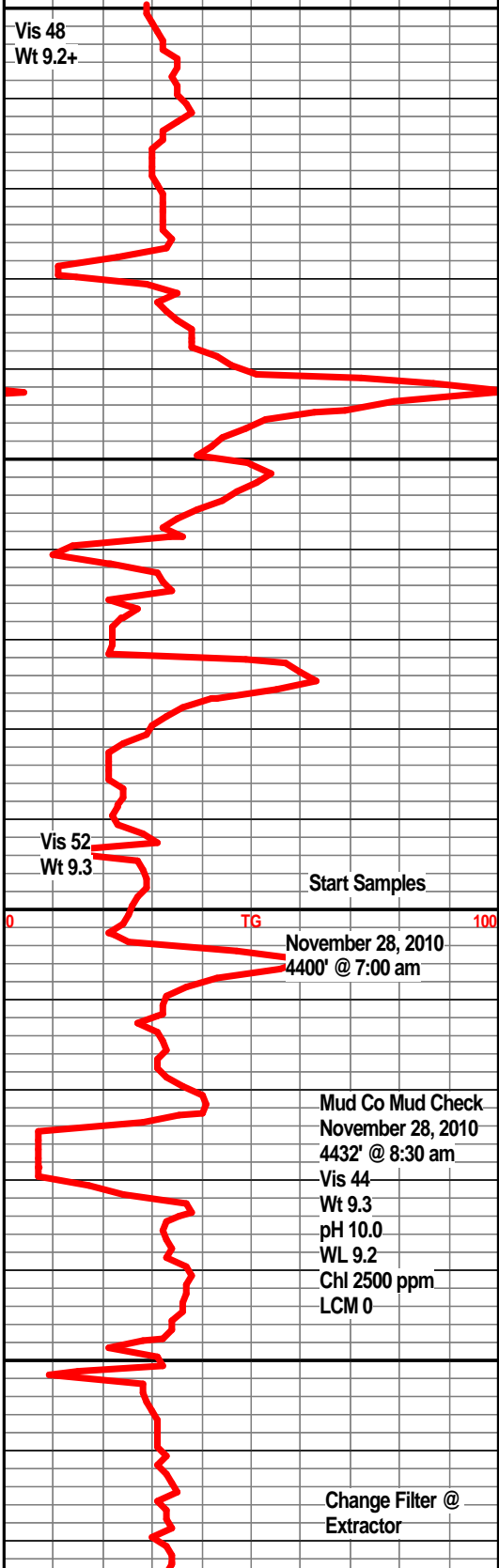
Start Samples

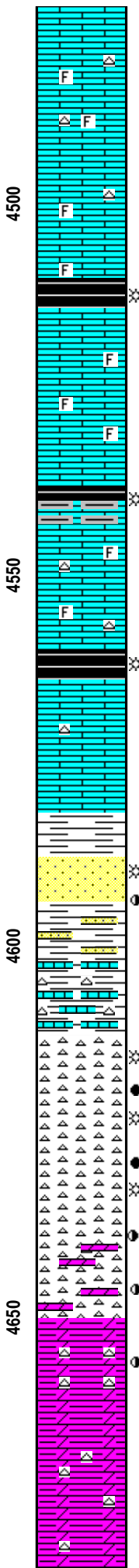
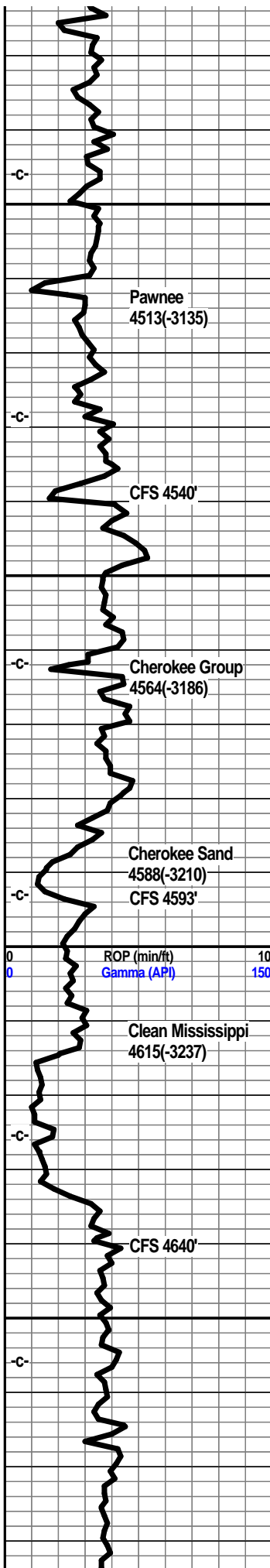
November 28, 2010
4400' @ 7:00 am

Mud Co Mud Check
November 28, 2010
4432' @ 8:30 am

Vis 44
Wt 9.3
pH 10.0
WL 9.2
Chl 2500 ppm
LCM 0

Change Filter @
Extractor





Limestone, tan-white, xln, foss frags,

Limestone, cream, tan, fxln, foss in part, sub chalky, traces of chert.

Limestone, cream-white, xln, dense, foss frags, sub chalky, some chert.

Limestone, cream, tan-white, xln, dense, foss., sub chalky.

Shale, grey-black, carb.

Limestone, cream-white, xln, foss frags, some pp porosity, sub chalky, no visible show.

Limestone, cream-white, xln, foss, sub chalky, trace of tan chert.

Shale, grey-black, sl carb.

Limestone, cream-white, xln, dense, sl foss, traces of tan chert, sub chalky in part.

Shale, grey-black, sl carb.

Limestone, tan, xln, foss, chalky, cherty, shaley in part.

Limestone, cream-white, fxln, foss, chalky.

Shale, lt grey, silty.

Sst, tan, fine grained, sa to sr, well cemented, not very friable, fair sorting, fair odor, show of bleeding gas, show of lt oil, trace of free oil in 60 min sample, good gas kick.

Shale, green, traces of green limestone, some sandy shale, yellow chlky limestone, traces of scattered chert.

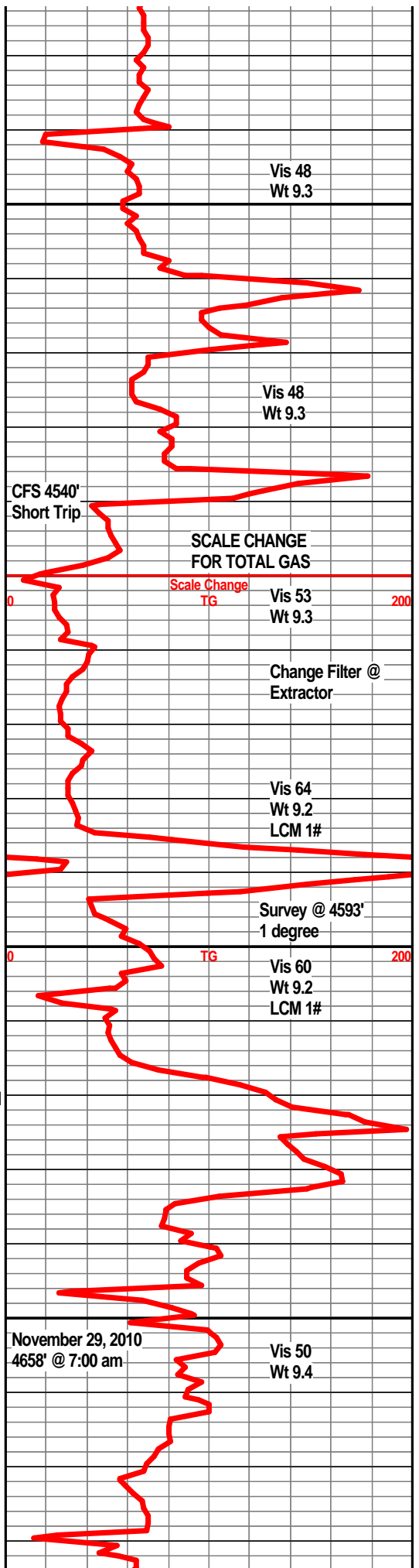
Chert, white to bone-white, translucent, some pale green-whote, sharp, some weathered, scattered vugs, show free oil in tray, faint odor, slight show bleeding gas, good gas indication, sl scattered fluor.

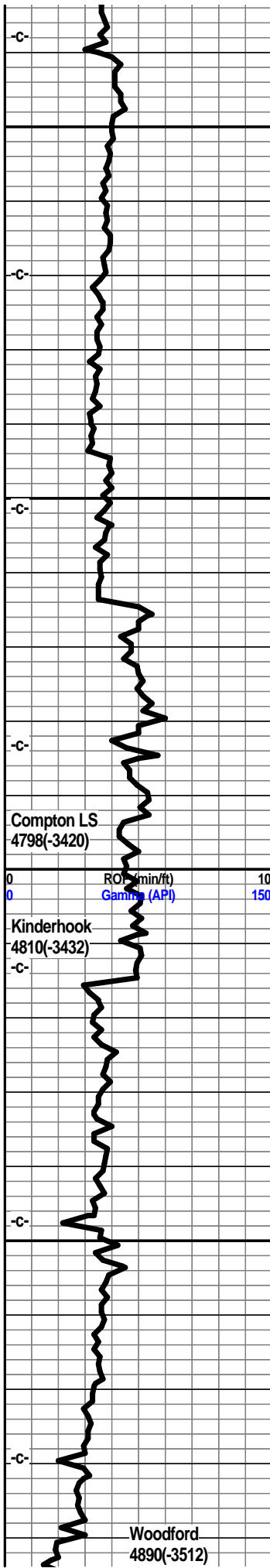
Chert, white, off-white, sharp, weathered, scattered vugs, pp porosity, fair staining, show of free oil in tray, some bleeding gas, fair odor, dull fluor, good gas indication.

Chert, white, off-white, grey dolo shales, chert is weathered with fair staining and show of oil.

Dolo, grey-white, abundant grey shales, off-white cherts with fair staining, slight odor, trace of free oil.

Dolo, grey-white, lt grey shales, scattered off-white cherts with light staining, decreasing shows.





Dolo, grey-white, xln, trace of foss, light grey shales, off-white chert with very slight stain.

Dolo, grey-white, xln, fn grained, grey shales.

Dolo, light grey-grey, fxln, fine grained, abundant grey shales, traces of off-white cherts.

Dolo, lt grey, fine grained, grey shales, cherty in part.

Dolo, grey, lt grey, fxln, grey shales, cherts.

Dolo, lt grey, tan, xln, fine grained, shales, some cherts.

Dolo, lt grey, xln, fine grained, traces of ls.

Shale, lt green to grey.
Limestone, cream-white, fxln, trace of gil flakes.

Shale, green.
Limestone, cream-white, xln, sl foss, sub chalky.

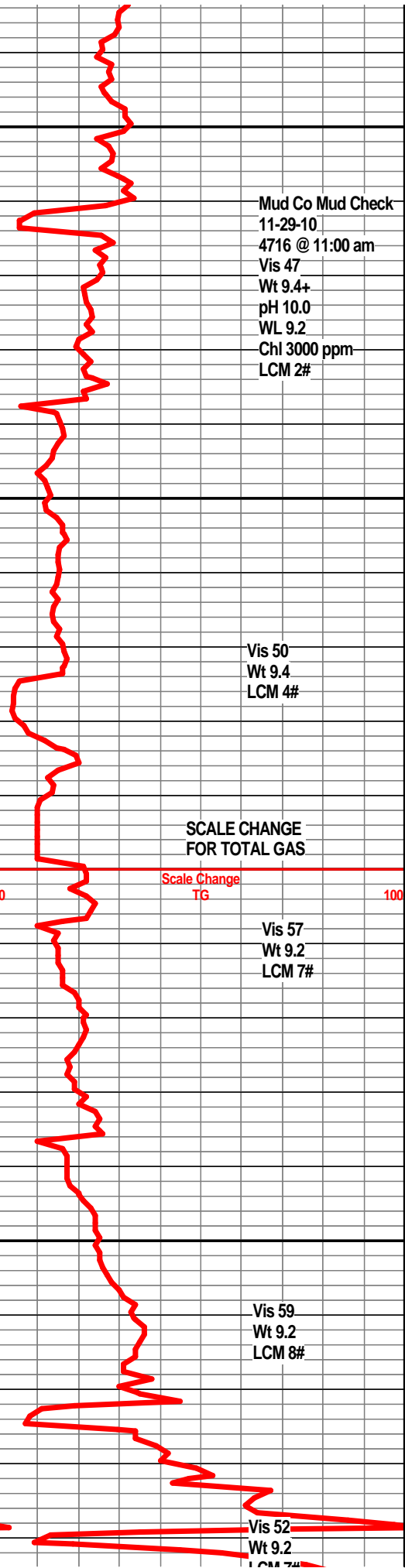
Shale, grey, dk grey, blk.

Shale, grey, dk grey, blk, trace pyrite.

Shale, grey, blk.

Shale, grey, grey-brown, silty.

Shale, grey, dk grey, some lt coffee brown, silty, show gas, trace of pyrite.



Mud Co Mud Check
11-29-10
4716 @ 11:00 am
Vis 47
Wt 9.4+
pH 10.0
WL 9.2
Chl 3000 ppm
LCM 2#

Vis 50
Wt 9.4
LCM 4#

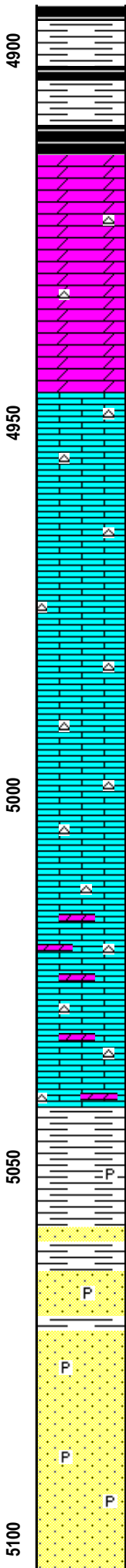
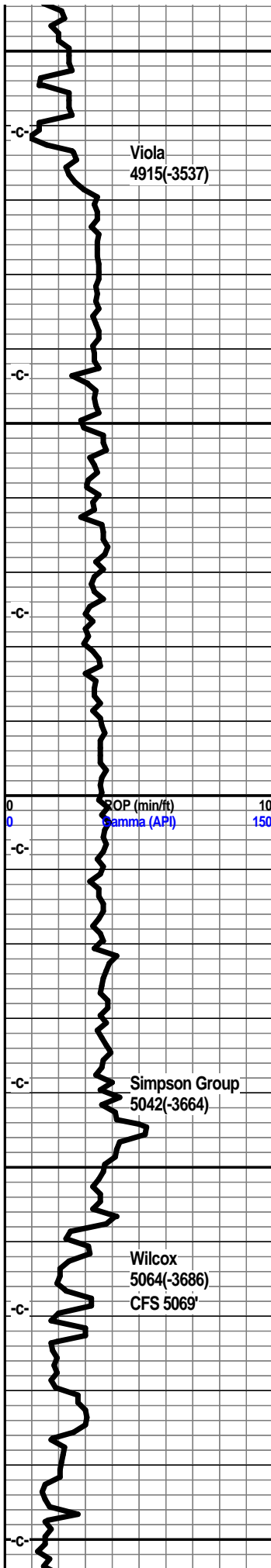
SCALE CHANGE
FOR TOTAL GAS

Scale Change
TG

Vis 57
Wt 9.2
LCM 7#

Vis 59
Wt 9.2
LCM 8#

Vis 52
Wt 9.2
LCM 7#



Shale, grey to dk grey-black, show of bleeding gas.

Shale, grey to a coffee-brown, silty, carb, show of bleeding gas.

Dolo, grey-white, xln, fine grained.

Dolo, grey-white, xln, fine grained, soft.

Limestone, white, off-white, xln, chalky.

Limestone, white, off-white, xln, sub-chalky, some white to tan-white cherts.

Limestone, xln, dense, chalky, tan-white cherts, sharp.

Limestone, off-white to tan-white, xln, sub chalky, tan cherts, sharp.

Limestone, tan-white, xln, dense, sub chalky, tan cherts.

Limestone, tan-white, xln, chalky, trace of tan chert, sharp.

Limestone, tan, tan-white, xln, dolo in part, sub chalky, tan to tan-grey cherts, sharp.

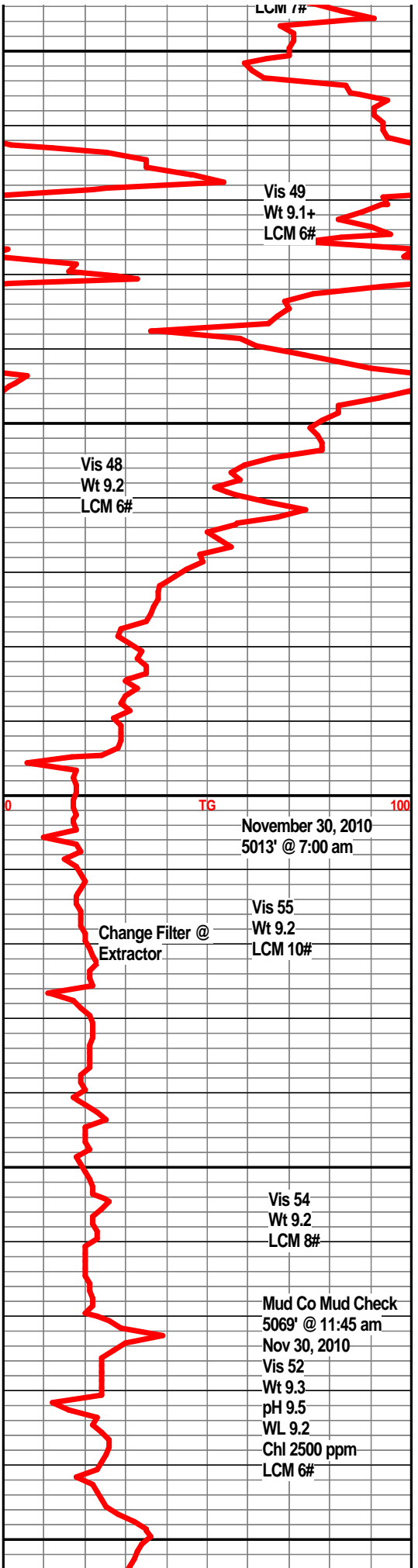
Limestone, tan-white, xln, dolo in part, sandy texture, tan cherts.

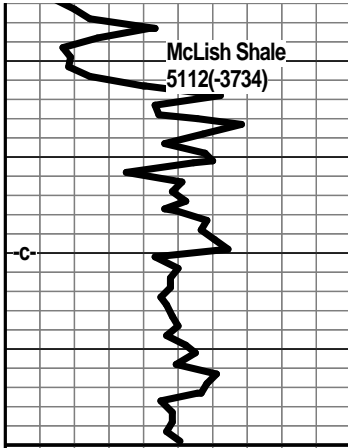
Shale, pale green, dk green, traces of pyrite, some interbedded sand grains.

Sst, clear to tan, poorly sorted, sa to sr, some loose sand grains in sample tray, some well cemented clusters, dirty in appearance, no visible shows.

Sst. clear to white, sa, fair sorting, some well cemented, friable in part, sl pyritic, glauc flakes, very faint show of gas bubbles, no odor, very faint scattered show of oil, no fluor.

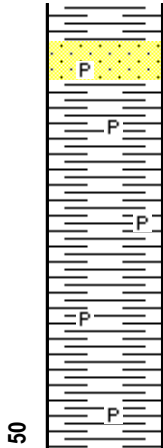
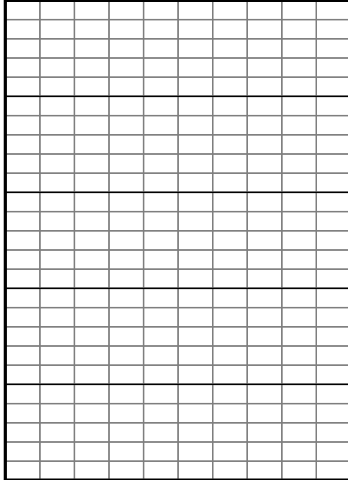
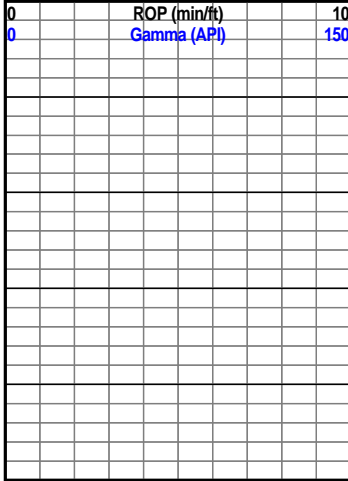
Sst, clear to white, sa, fair sorting, friable in part, glauc flakes, pyritic in part, no odor, no fluor., no visible shows.





RTD 5150' @
5:07 pm

LTD 5151'



5150

5200

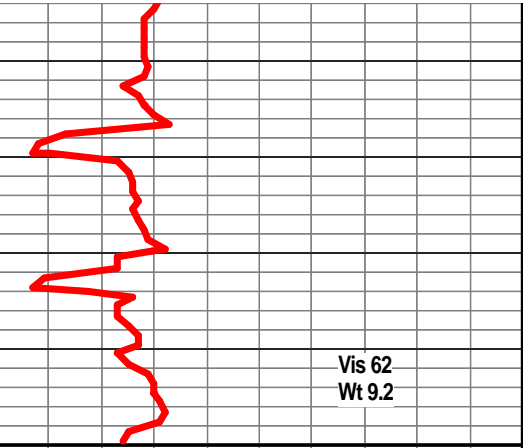
5250

Shale, dk green, waxy, races of imbedded sand grains.
Sst, clear to white, sa, fair sorting, friable in part, glauc flakes, no odor, shaley in part, no visible shows.

Shale, grey-green, trace pyrite, few scattered sand stringers.

Shale, grey-green, trace pyrite.

Shale, grey-green, firm.



Vis 62
Wt 9.2

