



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: GRESS-DAWSON #2
Location: APPROX SW NE SW SE
License Number: API: 15-007-24024-00-00
Spud Date: May 16, 2013
Surface Coordinates: Section 35-T31S-R12W, 930' FSL, 1675' FEL
Pike South
Bottom Hole Vertical Hole
Coordinates:
Ground Elevation (ft): 1560 K.B. Elevation (ft): 1572
Logged Interval (ft): 3200 To: RTD Total Depth (ft): 4785
Formation: Simpson
Type of Drilling Fluid: Chemical Mud, Displace at 3381'.
Region: Barber County, Kansas
Drilling Completed: May 24, 2013
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
LECOMPTON	3396(-1824)	3396(-1824)
KANWAKA	3421(-1849)	3420(-1848)
HEEBNER	3575(-2003)	3575(-2003)
M. DOUGLAS SAND	3716(-2144)	3715(-2143)
BROWN LIME	3756(-2184)	3756(-2184)
LANSING	3766(-2194)	3768(-2196)
STARK SHALE	4136(-2564)	4134(-2562)
HUSHPUCKNEY SHALE	4172(-2600)	4172(-2600)
B/KC	4238(-2666)	4237(-2665)
PAWNEE	4297(-2725)	4297(-2725)
MISSISSIPPIAN	4318(-2746)	4318(-2746)
KINDERHOOK SHALE	4485(-2913)	4485(-2913)
WOODFORD SHALE	4570(-2998)	4570(-2998)
VIOLA	4604(-3032)	4605(-3033)
SIMPSON SHALE	4709(-3137)	4709(-3137)
SIMPSON SAND	4740(-3168)	4740(-3168)
RTD	4785(-3213)	
LTD		4785(-3213)

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 217' with 200 sxs Class A, 2% gel, 3% cc, plug down at 8:00 pm on May 16, 2013. Cement did Circulate.

Production Casing: Ran 4 1/2 Casing

Deviation Surveys: 1/2 - 217', 1/2 - 908', 1/4 1763'. 1/4 2271, 3/4 - 2747', 1 - 3286', 3/4 - 3794', 1 - 4350', 3/4 - 4785,

Contractor Bit Record:

1- 14 3/4" out at 217'.

2- 7 7/8" out at 4350'.

3- 7 7/8" out at 4785'.

Pipe Strap at 4350' - 1.35' long to board.

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: Trilobite Testing, Randy Williams

Logged by Nabors Completion and Production Services

LTD - 4785

DSTs

DST #1 4320 to 4350 - Mississippi

Times 30-60-60-120

1st Opening - Strong Blow BOB in 30 seconds, blow back BOB

2nd Opening- Strong Blow BOB at Open, blow back, BOB GTS 16 minutes.

Recovery: 4250' GIP, 114' Drilling Mud (100% M), 121' GOWM (40% G, 10% O, 5% W, 45% M)

IFP 101-112# FFP 74-120#

ISIP 1461# FSIP 1457#

IHP 2135# FHP 2089#

Temp 122

Note - Tool partly plugged - cuttings.

CREWS

Fossil Drilling, Inc Rig #3

Tool Pusher - Jim Wenrich


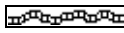
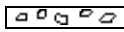
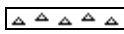
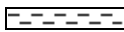








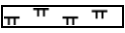

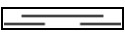







Drillers - Days - Daniel Orranta

Evening - Edward Raney















































































Morning - Andres Maestas









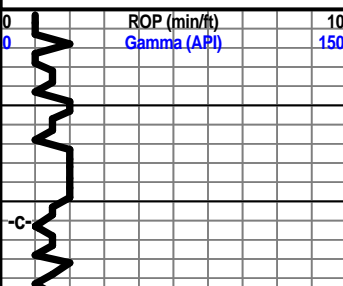
Relief - Allen Collins

ROCK TYPES

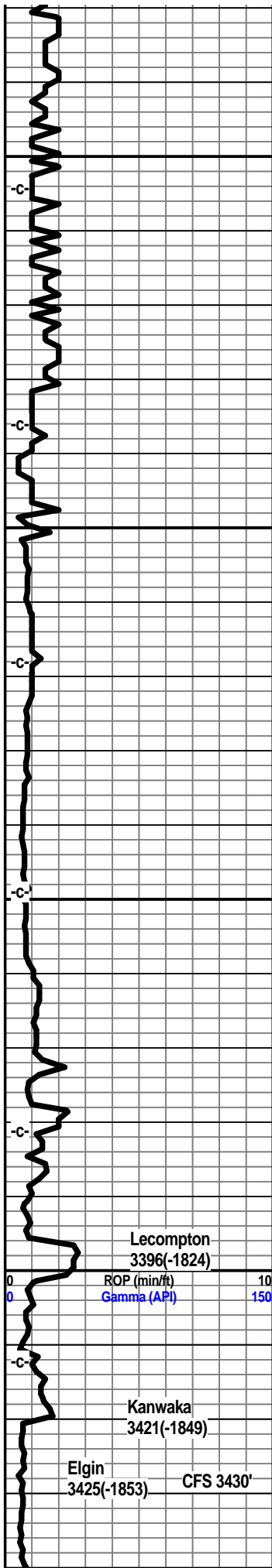
 Anhy  Bent  Brec  Cht  Clyst  Coal	 Congl  Sdy dolo  Shy dolo  Dol  Gyp  Sdy lmst	 Lmst  Mrlst  Salt  Shale  Sltst  Ss	 Black sh  Gry sh  Shale  Shyslstst  Sltysh
--	---	---	--

ACCESSORIES

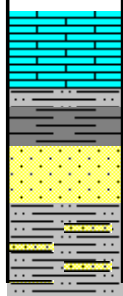
MINERAL  Anhy  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Ferrpel  Ferr  Glau  Gyp  Marl  Nodule  Phos  Pyr  Salt  Sandy  Silt	 Chlorite  Dol  Sand  Sltly FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pellet  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
--	--	---	---

Curve Track 1	Depth	Lithology	Geological Descriptions	TG, C1-C5
ROP (min/ft)  Gamma (API) 				TG (units)  C1 (units)  C2 (units)  C3 (units)  C4 (units)  C5 (units) 
	32		Drilling Progress May 16, 2013 MIRT Spud May 17, 2013 275' @ 7:00 am May 18, 2013 1900' @ 7:00 am May 19, 2013 2460' @ 7:00 am May 20, 2013 2860' @ 7:00 am May 21, 2013 3667' @ 7:00 am	TG 100

May 22, 2013 4280' @ 7:00 am
 May 23, 2013 4415' @ 7:00 am
 May 24, 2013 4785' @ 7:00 am

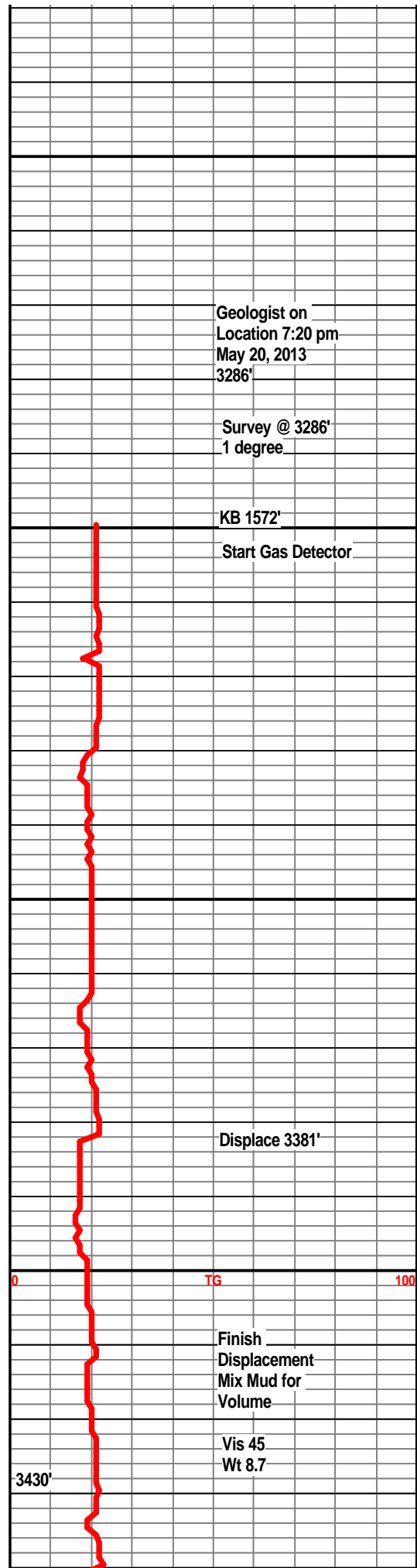


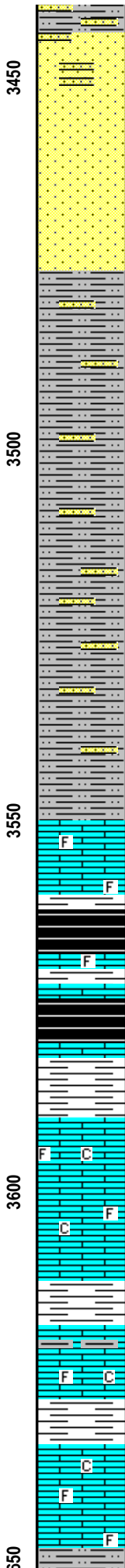
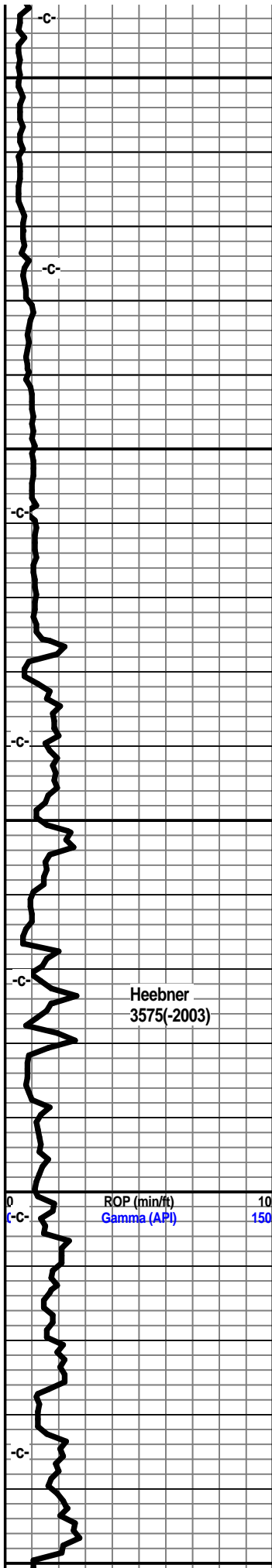
3250
 3300
 3350
 3400



Limestone, tan, buff, crystalline, dense, trace fossils.

Sandstone, clear to grey-white, fine grained, very silty, mica, mostly friable, some grey shales, no visible shows, no odor, no kick.





Sandstone, clear to grey-white, fine grained, very silty, mica, friable, no visible shows, trace scattered dull fluor, mineral.

Shale, light grey, very silty to sandy, abundant silty sand clusters, fine grained, friable in part, mica, no visible shows.

Limestone, tan, crystalline, dense, trace of fossils, no visible shows.

Shale, grey-black, trace gas bubbles.

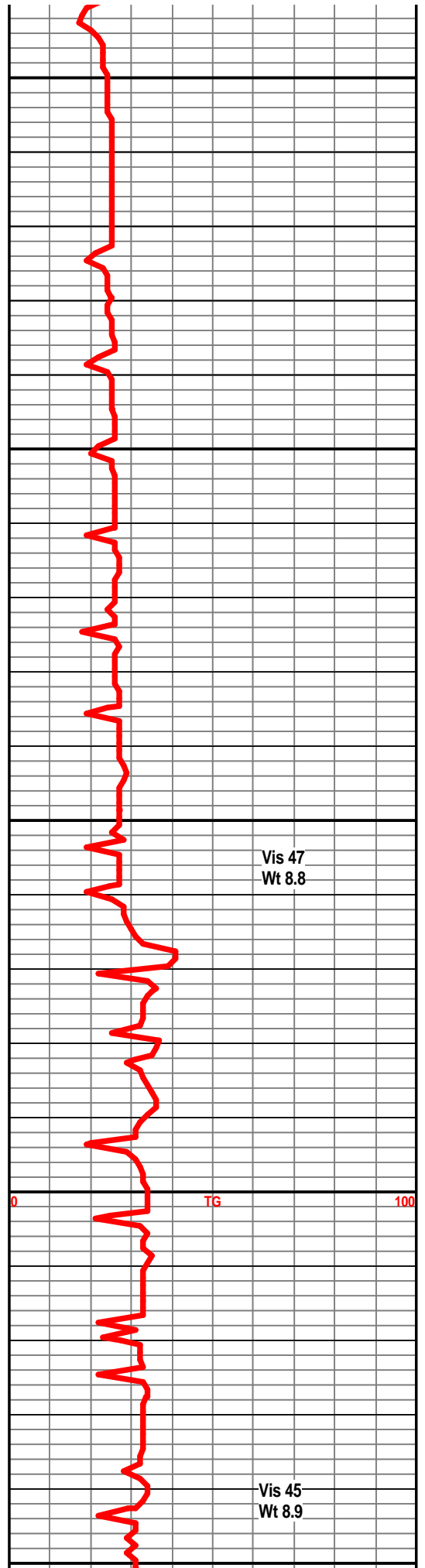
Limestone, cream, tan, crystalline, trace fossils.

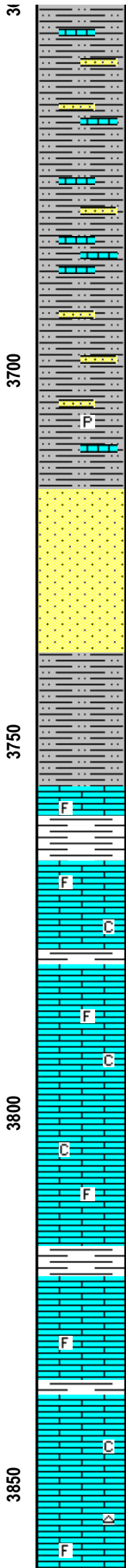
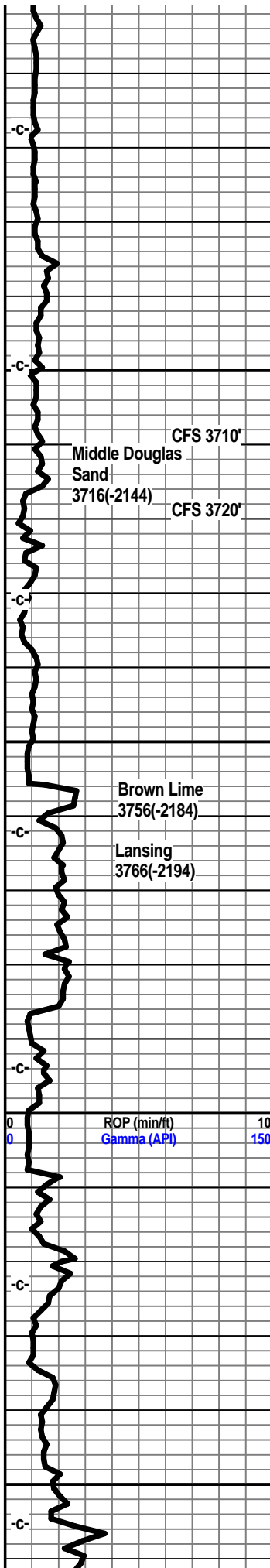
Shale, grey, grey-black, trace gas bubbles.

Limestone, tan, buff, cream, crystalline, trace fossils, subchalky in part, no visible shows.

Limestone, cream-white, light grey, finely crystalline, subchalky, trace fossils.

Limestone, tan-brown, tan, buff, crystalline, fossils, slightly subchalky.





Shale, light grey, grey, silty, few sandstone clusters, limestone frags.

Shale, grey, light grey, very silty to sandy, few sand clusters, slightly friable, tan-brown limestone frags, no visible shows.

Shale, light grey, grey, very silty, trace sand clusters, friable, some tan-brown limestone frags, fossils, no visible shows.

Sandstone, clear to grey-white, fine grained, friable, mica, sa to sr, slightly silty, no visible shows, no odor, no fluor.

Sandstone, clear to grey-white, very fine grained, silty in part, fraible, sa to sr, trace pyrite, glauc, no visible shows.

Shale, light grey, very silty to slightly sandy in part.

Limestone, tan-brown, crystalline, dense, fossils.

Limestone, cream, tan fine crystalline, dense, subchalky, fossils, trace crystalline porosity, no visible shows.

Shale, light grey.

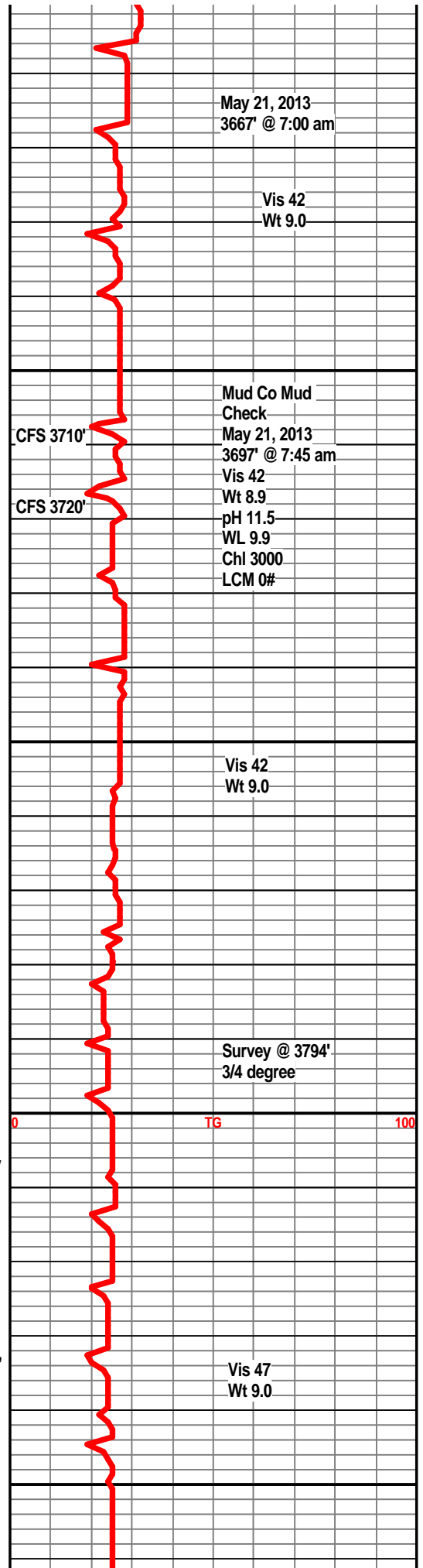
Limestone, cream, buff, crystalline, partly dense, fossiliferous porosity, trace crystalline porosity, chalky in part, no visible shows.

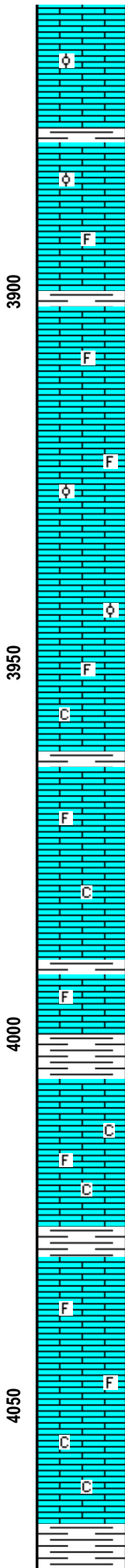
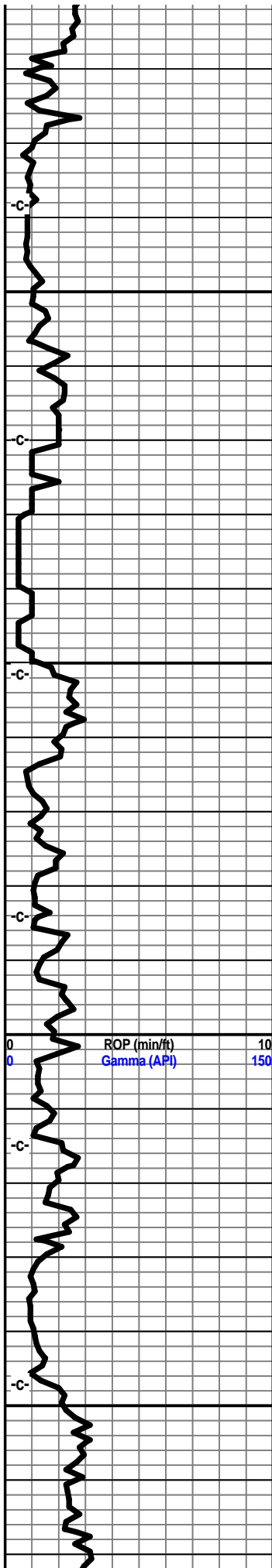
Limestone, tan, buff, crystalline, fossils, chalky in part, no visible shows.

Shale, light grey.

Limestone, buff, cream, crystalline, crystalline porosity, trace fossils, trace oolites, subchalky, no visible shows.

Limestone, tan, light grey, crystalline, dense in part, trace grey-tan chert, slightly foss, subchalky in part, no visible shows.





Limestone, tan, cream, oolitic in part, fossils, no visible shows.

Limestone, tan, buff, fine to medium crystalline, fossiliferous in part, traces oolite, no vis shows.

Shale, light grey.

Limestone, tan, buff, crystalline, slightly foss, dense in part.

Limestone, cream, buff, crystalline, chalky, fossiliferous porosity, oolitic, some crystalline porosity, barron, no visible shows.

Limestone, cream, tan, partly dense, subchalky, fossils, no shows.

Limestone, tan, buff-white, crystalline, dense in part, traces of crystalline porosity, slightly fossiliferous, subchalky in part.

Limestone, tan, crystalline, partly dense, fossils, no shows.

Shale, grey.

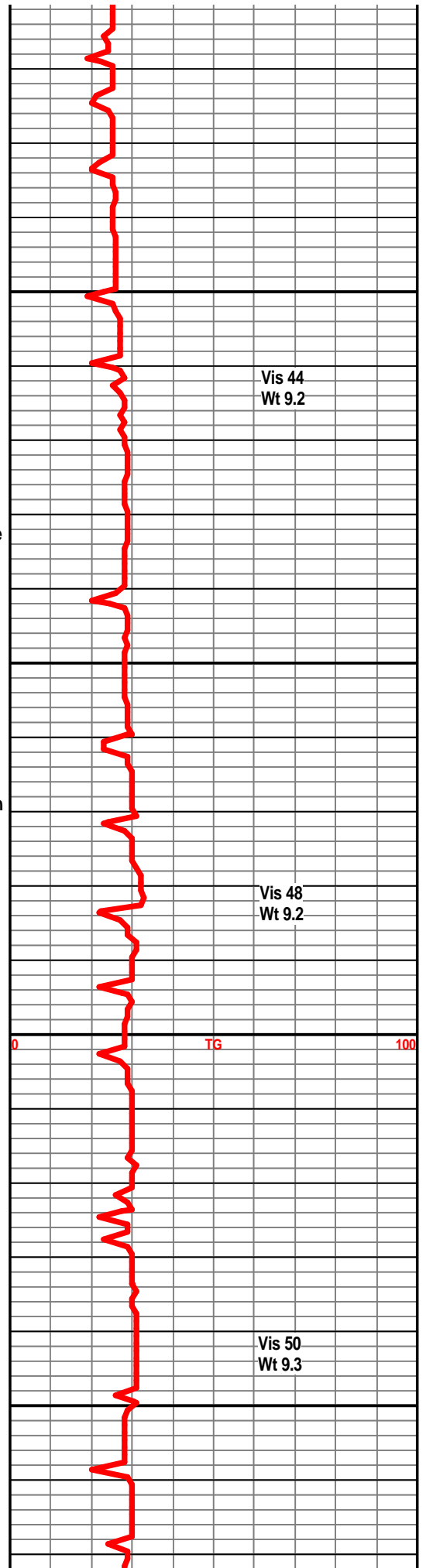
Limestone, cream, tan, crystalline, partly dense, trace fossils, subchalky, no shows.

Shale, light grey.

Limestone, tan, buff, cream, partly dense, fossiliferous porosity, traces of crystalline porosity, barron, no odor, no shows.

Limestone, buff, tan partly dense, chalky.

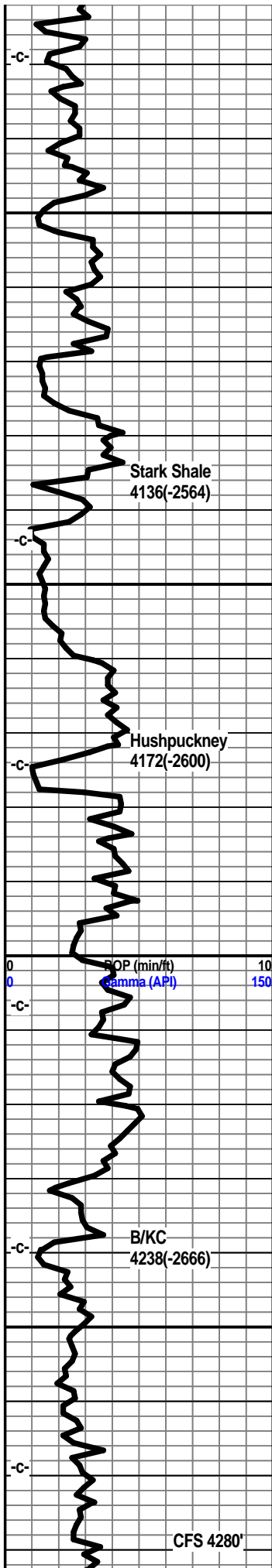
Shale, grey-green.



Vis 44
Wt 9.2

Vis 48
Wt 9.2

Vis 50
Wt 9.3



Limestone, tan, buff, cream, crystalline, partly dense, trace fossils, mottled, subchalky, trace tan chert, no visible shows.

Limestone, cream, buff, partly dense, trace crystalline porosity, no visible shows.

Shale, light grey.

Limestone, tan, buff, crystalline, partly dense, trace oolites, oolmoldic porosity, barron, no shows.

Shale, grey-black.

Limestone, tan, buff, crystalline, oolimoldic porosity, trace crystalline porosity, barron, no visible shows.

Limestone, buff, tan, crystalline, partly dense, fossils, trace tan chert.

Shale, grey-black, trace gas bubbles.

Limestone, tan, buff, crystalline, dense, trace fossils, subchalky in part.

Shale, grey.

Limestone, tan, grey, dense, fossils, traces tan-grey chert, no visible shows.

Shale, grey.

Limestone, tan, tan-brown, grey, crystalline, dense, fossils, traces tan-grey chert.

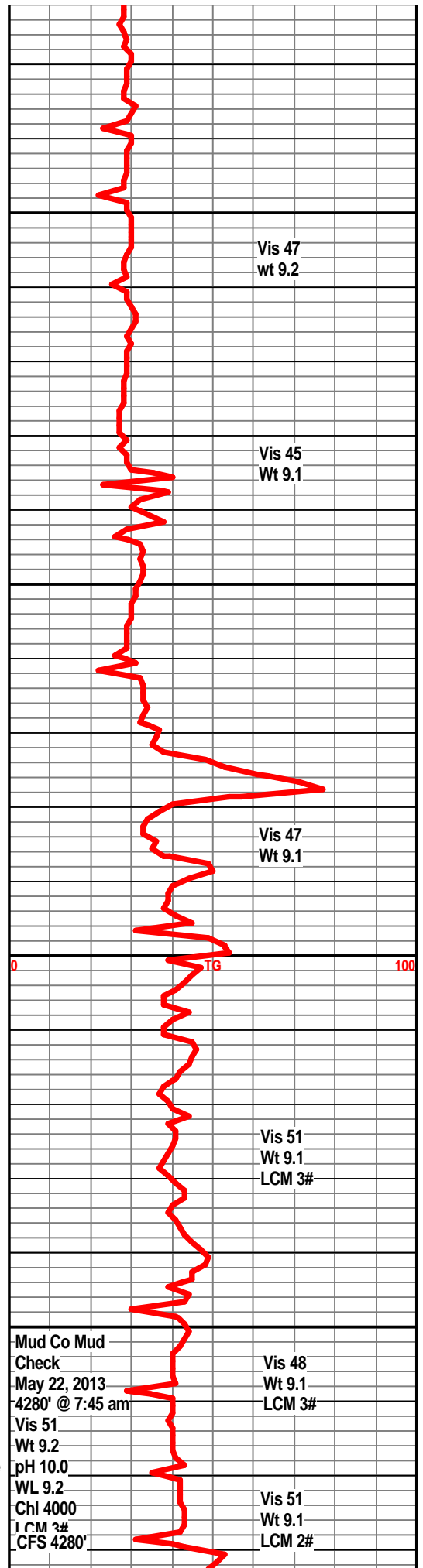
Shale, grey-green, calcitic.

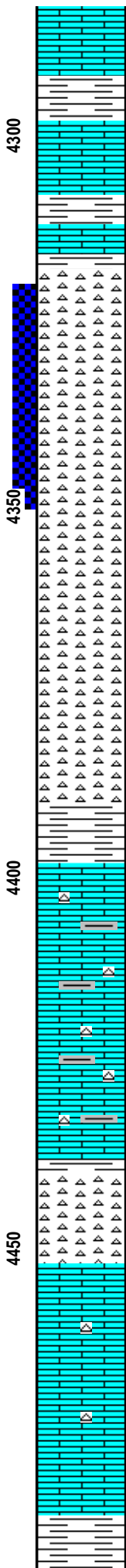
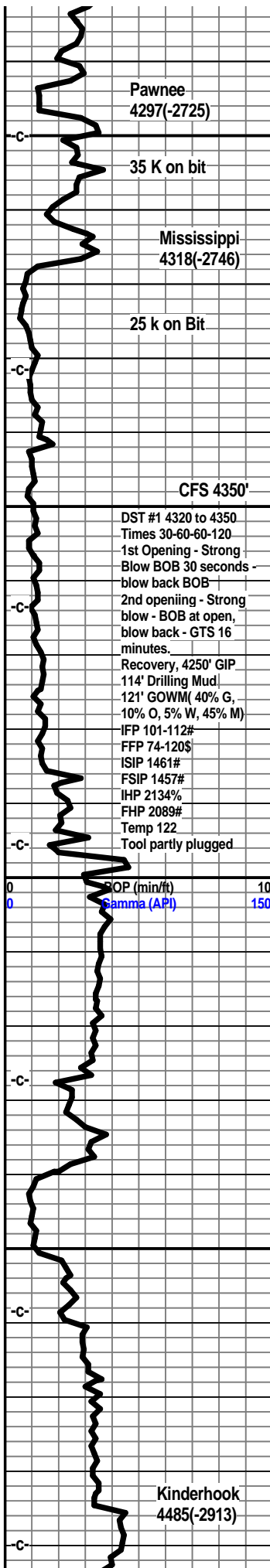
Limestone, cream, buff, pale green, crystalline, dense.

Shale, grey, pale green.

Limestone, cream, tan, crystalline, dense, trace fossils, tan chert.

Limestone, tan, cream, crystalline, dense,





subchalky, trace fossils, tan chert.

Shale, grey

Limestone, buff, cream, crystalline, trace crystalline porosity, subchalky, trace fossils, spotty black asphaltic stain, no odor, no kick.

Shale, grey.

Limestone, tan-white, dense.

Chert, tan, off-white, weathered, some sharp, pin point porosity, few small scattered vugs, scattered golden stain, few pieces saturated stain, light odor, spotty fluor, f-g show bleeding gas and oil, free oil in tray, good gas kick.

Chert, tan to off-white, sharp to weathered, scattered pin point porosity, very few small vugs, fair odor, scattered staining, some edge stain, fair show light oil, spotty fluor.

Chert, off-white, some tan, mostly sharp, few weathered with pin point porosity, trace few small scattered vugs, light odor, scattered staining, traces of edge staining, light show free oil, dull spotty fluor.

Chert, off-white, bone-white, fresh, sharp, trace weathered, trace pin point porosity, scattered edge staining, trace small vugs, very faint odor, trace oil, dull spotty fluor.

Chert, a/a, dark asphaltic staining, mostly fresh sharp, trace show oil.

Shale, grey-green.

Limestone, tan, cream, crystalline, cherty, shaley in part(abundant chert from above in tray)

Limestone, tan, reddish brown, shaley, abundant cherts.

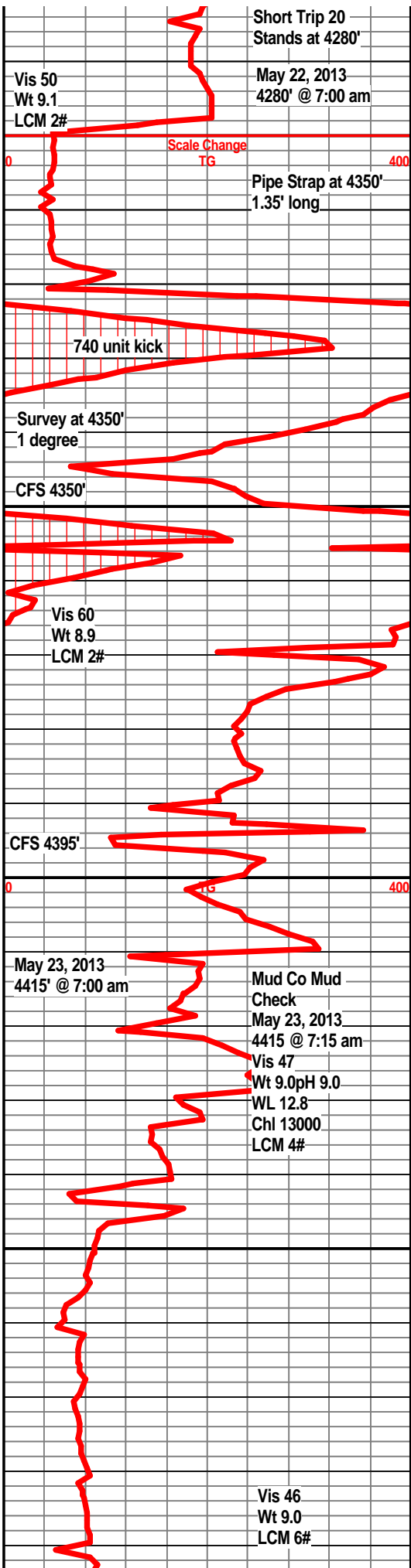
Limestone, tan, reddish brown, shaley, abundant cherts, some with asphaltic stain(from above?).

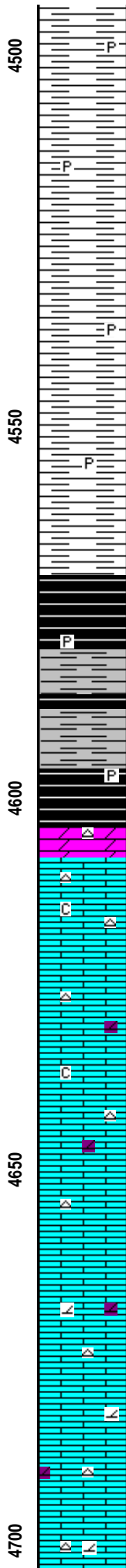
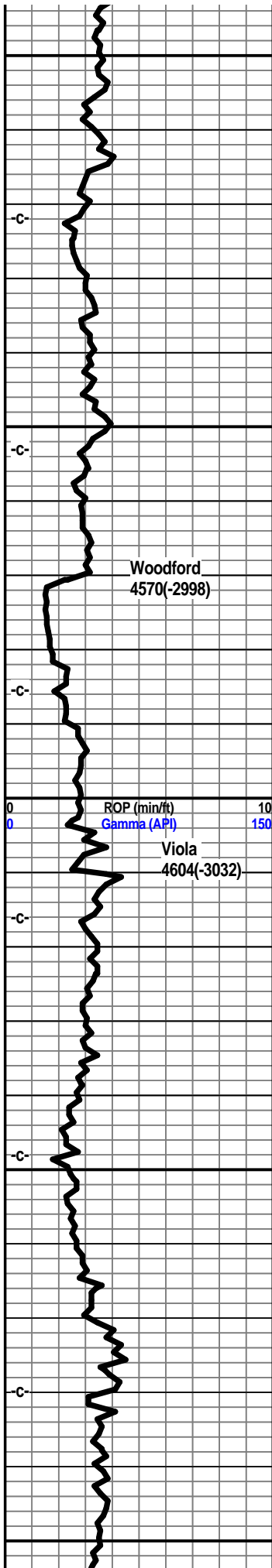
Shale, grey-green.

Chert, bone-white, fresh, sharp,

Limestone, cream, tan, crystalline, dense, tan cherts, some grey-green shales.

Limestone, tan, tan-white, crystalline, tan cherts, subchalky in part.





Shale, grey-dark grey, silty, ls fragments, trace pyrite.

Shale, grey, dark-grey, silty, splintery, pyrite.

Shale, dark-grey, pyritic.

Shale, dark grey, grey, splintery, pyritic.

Shale, grey-black, trace gas bubbles, pyrite.

Shale dark grey, black.

Shale, dark grey, black, carb, spores, traces of pyrite.

Dolomite, tan, very fine grained, sandy texture, trace white chert, no visible shows, no odor.

Limestone, tan-white, grey-white fine to medium crystalline, chalky in part, traces of white to tan cherts, no odor, no visible shows.

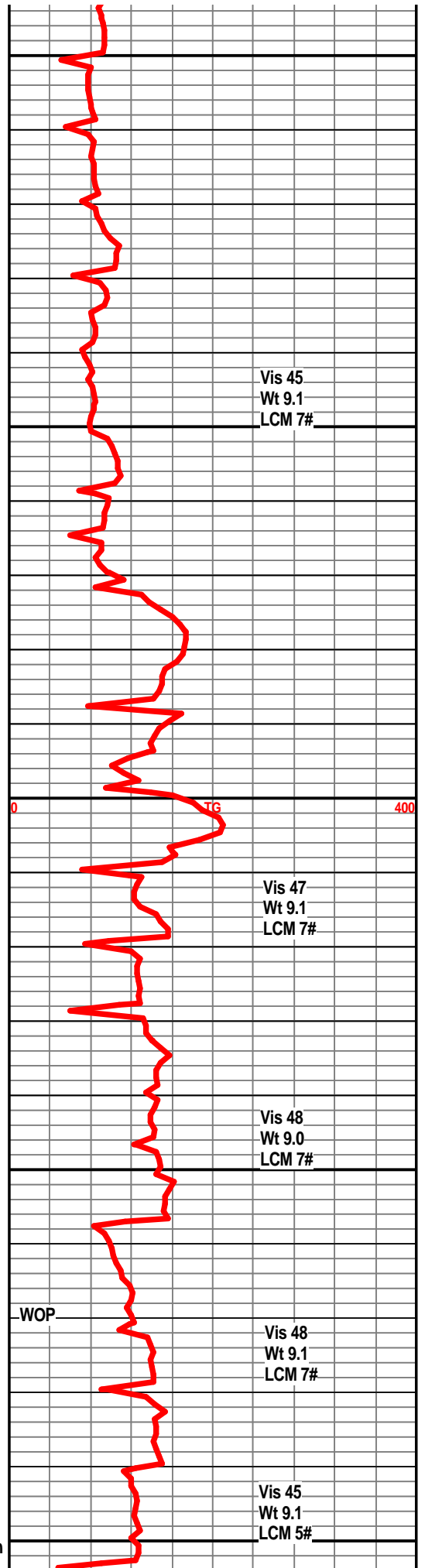
Limestone, tan, grey-white, crystalline, dense, tan sharp cherts, slightly dolo in part, no visible shows.

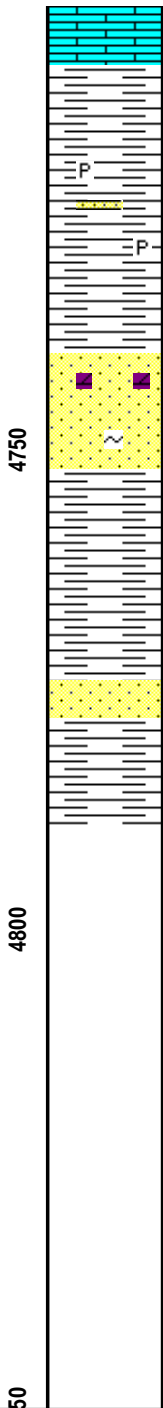
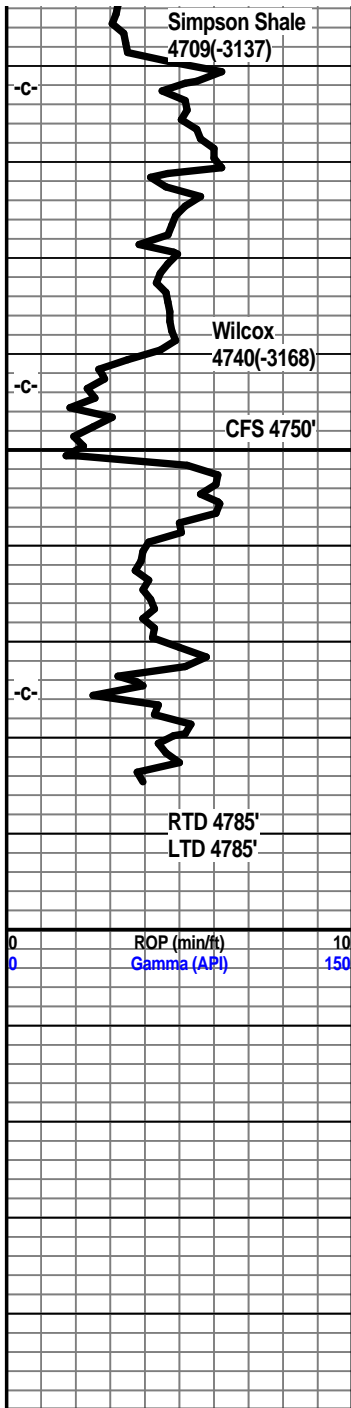
Limestone, tan, tan-white, crystalline, dolo in part, fine grained, sharp tan cherts, no visible shows.

Limestone, tan, buff, crystalline, dense, subchalky in part, dolo, tan sharp cherts.

Limestone, tan, buff-white, crystalline, dense, subchalky, tan sharp cherts, slightly dolo in part.

Limestone, tan, buff, granular, dense, sharp tan cherts, slightly dolo in part.





Shale, slightly dol. in part.

Shale, teal green, firm, waxey, trace pyrite.

Shale, teal green, dark green, firm, few sand clusters.

Sandstone, clear to grey white SA to SR, poor sorting, some well cemented, tite, few friable, trace gluac, trace gil, dolo in part, no visible shows, no odor, no fluor.

Shale, dark green, teal, trace of pyrite.

Sandstone, grey-white, clear, well cemented, sa to sr, trace friable, gluac, no visible shows.

Shale, dark green, teal, firm.

