



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Spicer G.U. C #4
Location: Apx E/2 E/2 SW SE
License Number: API: 15-007-23715-00-00
Spud Date: June 13, 2011
Surface Coordinates: 660' FSL & 1340 FEL Section 28-Twp 33 South - Rge 10 West
Bottom Hole Coordinates: Vertical Hole
Ground Elevation (ft): 1405
Logged Interval (ft): 4000 To: RTD
Formation: McLish Shale
Type of Drilling Fluid: Chemical Mud, Displace at 3390'

Region: Barber County, Kansas

Drilling Completed: June 22, 2011

K.B. Elevation (ft): 1414

Total Depth (ft): 5065'

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	4295(-2881)	4290(-2876)
B/KC	4350(-2936)	4346(-2932)
PAWNEE	4438(-3024)	4435(-3021)
CHEROKEE GROUP	4488(-3074)	4486(-3072)
MISSISSIPPIAN	4538(-3124)	4535(-3121)
KINDERHOOK SHALE	4752(-3338)	4754(-3340)
WOODFORD SHALE	4823(-3409)	4824(-3410)
VIOLA	4850(-3436)	4851(-3437)
SIMPSON GROUP	4949(-3535)	4948(-3534)
SIMPSON SAND	4952(-3538)	4951(-3537)
MCLISH SHALE	5029(-3615)	5026(-3612)
RTD	5065(-3651)	
LTD		5064(-3650)

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 215' with 240 sxs Class A, 2% gel, 3% cc, plug down at 10:45 pm on June 13, 2011. Cement did Circulate.

Production Casing: 5 1/2" Casing Ran.

Deviation Surveys: 3/4- 220', 1 - 1225', 3/4 - 1729', 1 -2262', 1/4 - 2765', 3/4 -3263', 1/4 - 3735', 1 - 3861', 3/4 - 3989', 3/4 - 4113', 1 1/4 - 4565', 1 1/4 - 5065'.

Contractor Bit Record:

1- 14 3/4" out at 220'.

2- 7 7/8" out at 5065'.

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: Trilobite Testing, Inc

Logged by Superior Well Services

LTD - 5064'

DSTs

DST #1 4457 - 4565 Mississippian

Times 30-60-60-120

1st Opening BOB 3 minutes, no blow back

2nd Opening, BOB 20 Seconds, no blow back

Recovery: 3860' GIP

300' GCM (20% Gas, 80% Mud)

60' Mud

IHP 2208# FHP 2125#


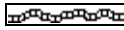
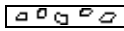
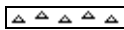
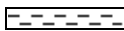








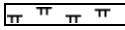

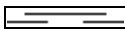







IFP 57-102 FFP 103-157

ISIP 933 FSIP 1016















































































CREWS

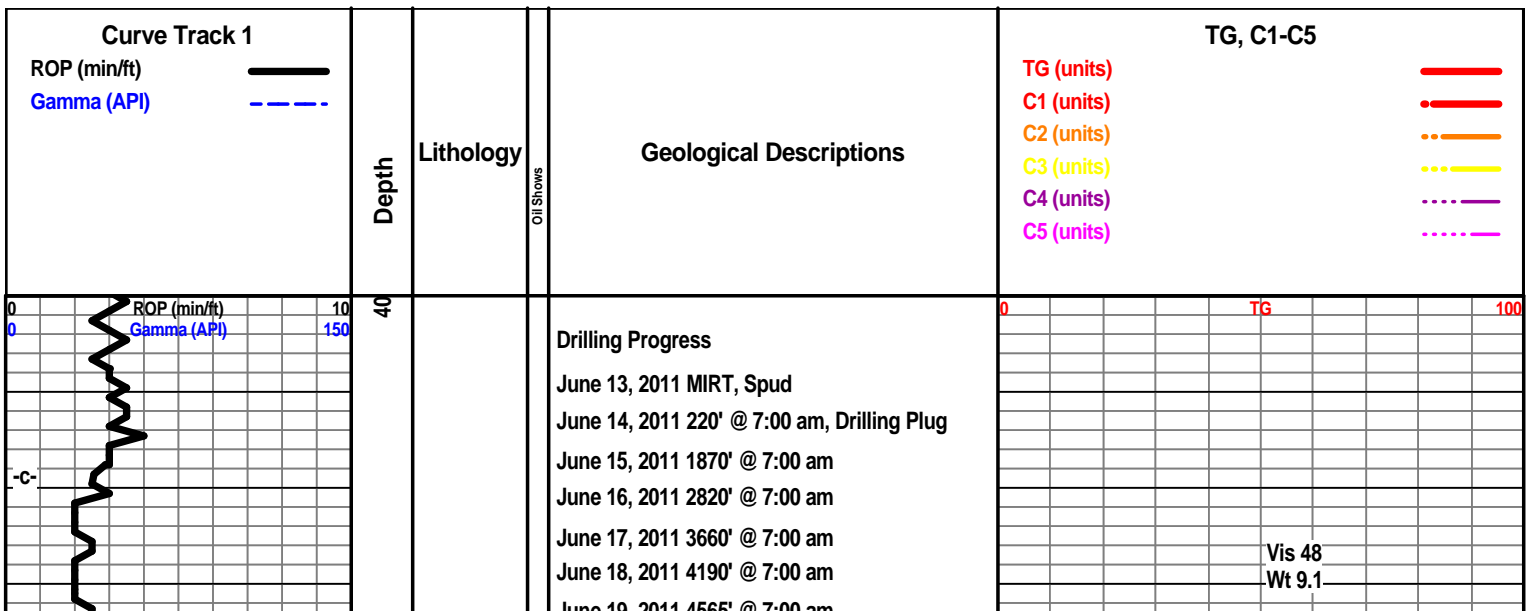
H2 Drilling Rig #3
 Tool Pusher - Randy Smith
 Drillers - Gary Axtell
 Luis Marquez
 Cain Charles

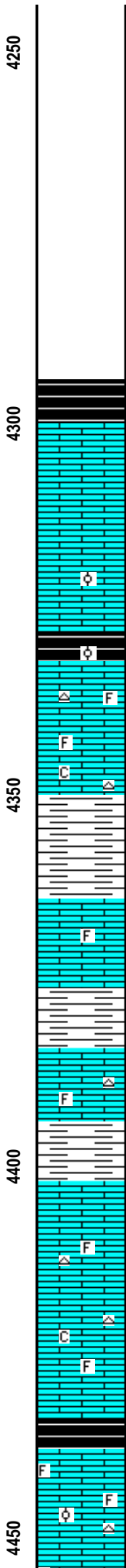
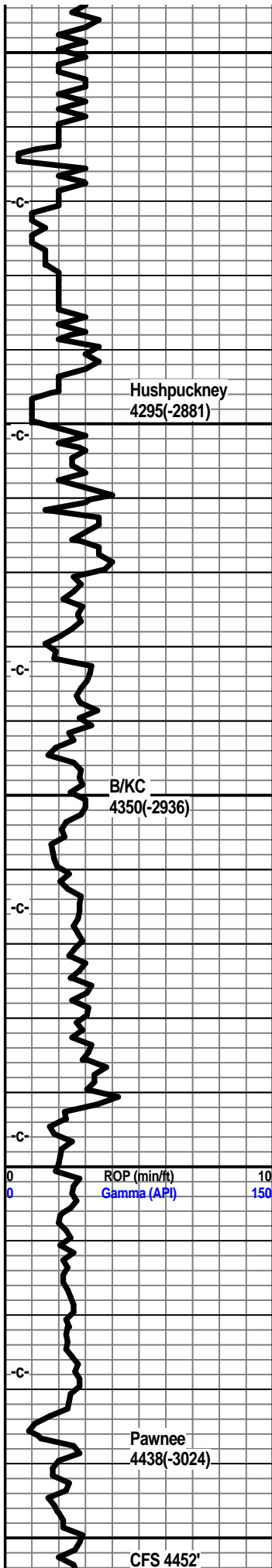
ROCK TYPES

 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  Sltys
--	---	---	---

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
--	--	--	---





4250

4300 Shale, grey-black, carb.

Limestone, cream, tan-brown, xln, subchalky, slightly oolitic, some fossil frags, no visible shows.

4350 Shale, grey-black, carb

Limestone, tan, grey-white, xln, dense, trace foss, subchalky in part, trace of tan cherts.

4400 Shale, light grey, green, silty texture.

Limestone, tan, light grey, xln, foss in part.

Shale, grey-green, slightly calcitic.

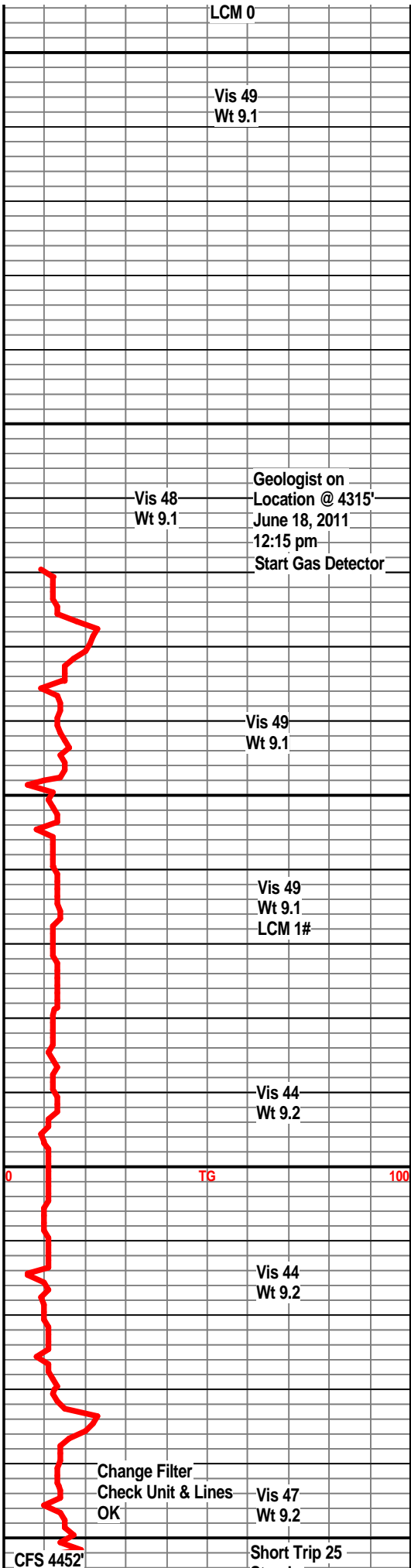
Limestone, cream, tan, xln, dense, slightly foss, trace chalky.

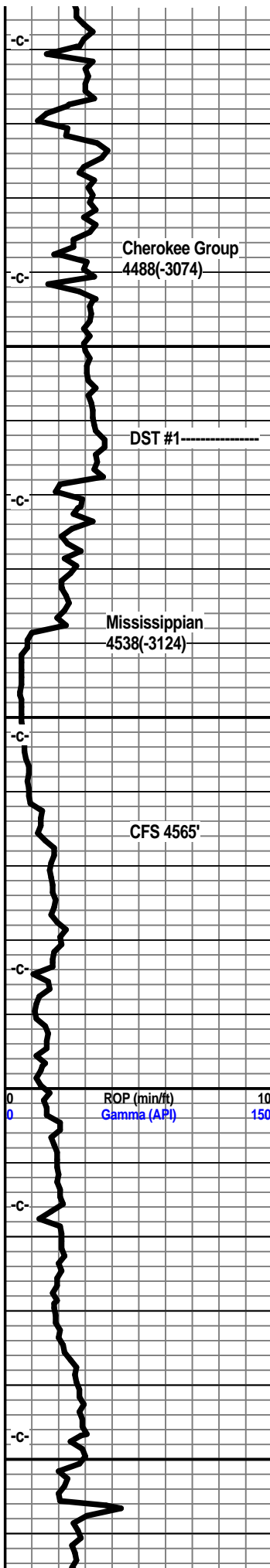
4450 Shale, light grey.

Limestone, cream, tan-buff, xln, dense, traces of tan chert, slightly foss in part, subchalky in part.

Shale, grey-black, carb.

Limestone, cream-white, tan, xln, oolitic, trace xln porosity, no odor, no visible shows.





Limestone, cream-white, xln, dense, trace chert, slightly foss.

Shale, Grey-black, carb

Limestone, tan, tan-white, xln, dense, traces of tan chert. slightly foss.

Shale, grey-black, carb.

Limestone, tan, tan-brown, xln, dense, foss in part, trace of tan chert.

Limestone, grey-white, tan, xln, slightly foss, subchalky in part, traces of tan chert.

Shale, light grey-green.

Shale, light grey, some light grey dense limestone, traces of tan to white cherts.

Chert, off-white to tan, weathered in part, pp porosity, scattered small vugs, light brown staining, fair odor, show of free oil in tray, traces of bleeding gas, dull fluor.

Chert, white to off-white, weathered, pp porosity, scattered vug porosity, show of free oil, bleeding gas, fair odor, dull fluor., light brown spotty stain, some fresh white sharp chert.

Dolo, grey-white, tan-white, xln, weathered cherts, pp porosity, slight lt brown staining, slight show oil & gas, faint odor, fresh white to off-white chert, sharp, grey-green shales.

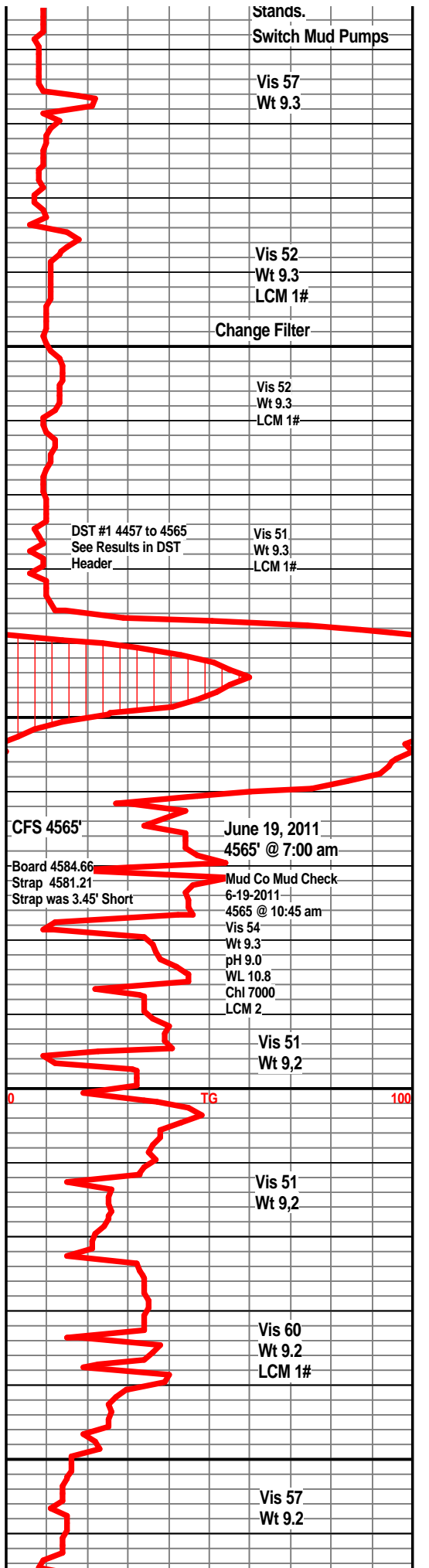
Dolo, grey-white to tan-white, xln, weathered chert with lt brown staining, scattered pp porosity, grey-green shales, sharp off-white cherts, scattered shows of oil & gas, dull fluor, faint odor.

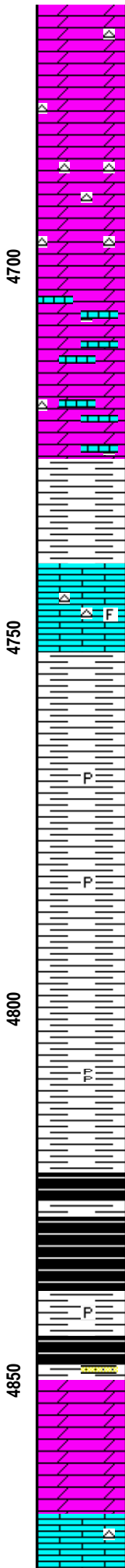
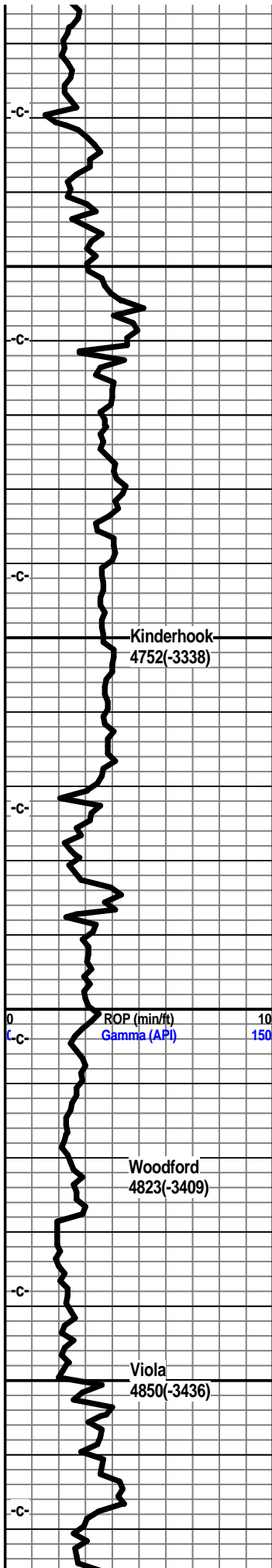
Dolo, grey-white, tan-white, xln, weathered chert, slight staining, scattered pp porosity, grey-green shales, some fresh sharp chert. decreasing amounts of staining.

Dolo, grey-white, tan, xln, off-white chert, few weathered, grey-green shales.

Dolo, grey-white, xln, off-white cherts, sharp, few weathered, grey-green splintery shales.

Dolo, grey-white, xln, sharp off-white chert, smaller amounts of shale.





Dolo, light grey, xln, fn grained, traces of off-white chert, small amount of grey-green shales.

Dolo, light grey, xln, off-white cherts, questionable staining, no odor, no visible shows.

Dolo, light grey-white, off-white cherts, grey-green shales, ls stringers, no visible shows.

Dolo, light grey, tan, xln, limestone, stringers, trace foss.

Shale, green, calcitic in part.

Limestone, cream, tan-white, xln, foss in part, subchalky, traces of chert.

Shale, grey-black, some silty, trace pyrite, traces of limestone fragments.

Shale, dark grey, grey-black, silty in part, trace of pyrite.

Shale, grey-black, carb.

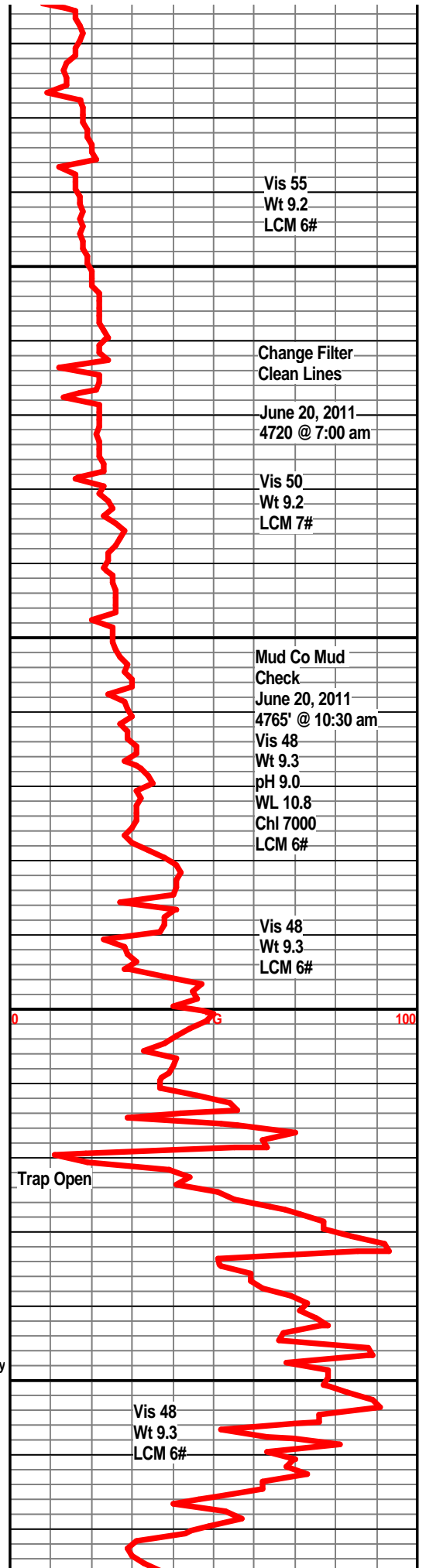
Shale, grey, dark grey-black, some coffee brown, carb

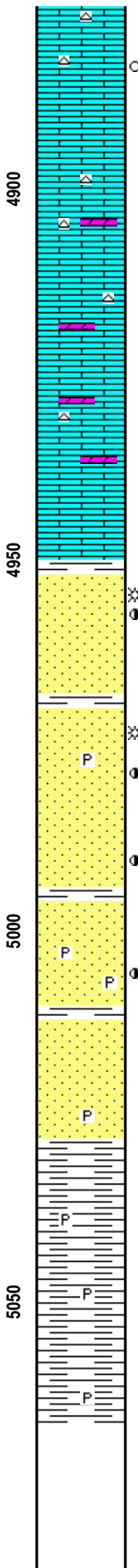
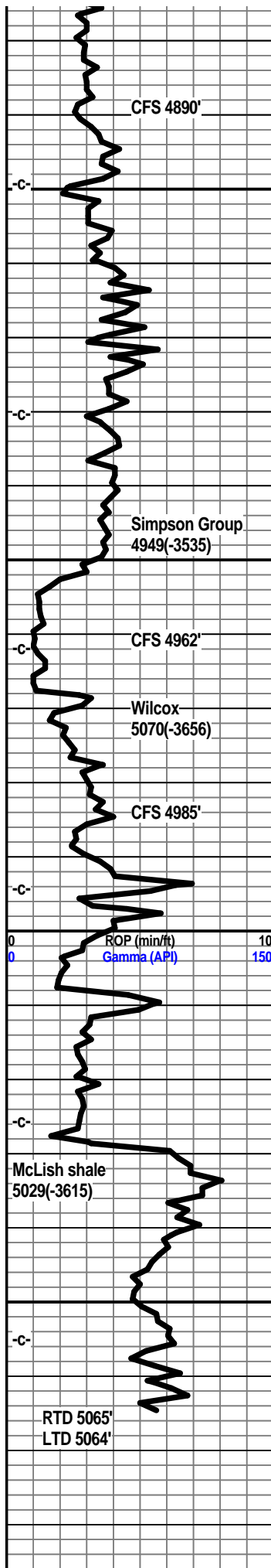
Trace sandstone,(very few clusters) no visible shows, dirty in appearance.

Dolo, light grey-white, xln, soft.

Dolo, Light grey, xln, soft.

Limestone, cream-white, tan-white, xln, trace of xln porosity, subchalky in part, off-white cherts, questionable scattered light stain on chert





Scattered light stain on surface.

Limestone, cream-white to tan, xln, traces of xln porosity, subchalky in part, traces of off-white chert, one piece had a very slight show of light oil under UV, another had some scattered vacant vugs with some very light staining, no odor, no gas indication.

Limestone, off-white to tan, xln, dense, tan sharp chert, slightly dolo in part.

Limestone, tan-white, xln, dense, granular texture, dolo in part, sharp tan cherts.

Limestone, tan, xln, dense, dolo in part, granular texture, tan sharp cherts.

Shale, dark grey-green.

Sandstone, clear to grey-white, SA to SR, slightly dolomitic, poor to fair sorting, friable in part, some well cemented, glauc, slight show oil under uv, very faint odor, slight gas indication.

Sandstone, grey-white to clear, SA to SR, well cemented, dolo in part, some friable, scattered show of light oil under uv light, very faint odor, gil, glauc, traces of pyrite, some interbedded shale stringers.

Sandstone, clear to white, SA to SR, fair sorting, dolo in part, friable in part, tite, slight staining, scattered light show oil, slight odor when clusters broken, scattered fluor., some green shale inclusions, traces of pyrite.

Sandstone, clear to white, SA to SR, fair sorting, cleaner, glauc, gil, friable in part, well cemented in part, shale inclusions, scattered light show oil, scattered fluor.,

Sandstone, clear to white frosted, SA to SR, some friable, some well cemented, fair sorting, gil, glauc, scattered show light oil, dull scattered fluor., traces of pyrite.

Shale, dark grey-green, trace of pyrite.

Shale, dark-green, firm, waxey, traces of pyrite.

