



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Miller #C-2

Location: E/2 NW NW NW

License Number: API: 15-007-23655-00-00

Spud Date: March 7, 2011

Region: Barber County, Kansas

Drilling Completed: March 16, 2011

Surface Coordinates: 330' FNL, 595' FWL Section 10-Twp 35 South - Rge 12 West

Hartner Pool

Bottom Hole Coordinates: Vertical Hole

Ground Elevation (ft): 1417

K.B. Elevation (ft): 1426

Logged Interval (ft): 4200 To: 5480

Total Depth (ft): 5480

Formation: McLish Shale

Type of Drilling Fluid: Chemical Mud, Displace at 3350'.

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	4588(-3162)	4586(-3160)
B/KC	4637(-3211)	4635(-3209)
PAWNEE	4733(-3307)	4732(-3306)
CHEROKEE GROUP	4780(-3354)	4778(-3352)
CHEROKEE SAND	4805(-3379)	4804(-3378)
MISSISSIPPIAN	4826(-3400)	4826(-3400)
KINDERHOOK SHALE	5105(-3679)	5106(-3680)
WOODFORD SHALE	5173(-3747)	5180(-3754)
MISNER SAND	5202(-3776)	5208(-3782)
VIOLA	5214(-3788)	5238(-2812)
SIMPSON GROUP	5352(-3926)	5354(-3928)
SIMPSON WILCOX	5365(-3939)	5368(-3942)
MCLISH SHALE	5446(-4020)	5442(-4016)
MCLISH SAND	NDE	NDE
RTD	5480(-4054)	
LTD		5482(-4056)

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 214' with 240 sxs Class A, 2% gel, 3% cc, plug down at 10:15 pm on March 7, 2011. Cement did Circulate.

Production Casing: Ran 5 1/2" Casing.

Deviation Surveys: 218' 1/4, 1531' 1/4, 2073' 1/4, 2578 1/4, 3148' 1/4, 3752' 1/2, 3911' 1, 4102' 1/2, 4609' 1/2, 4880' 1, 5480' 1.

Contractor Bit Record: 1- 14 3/4" out at 218'.

2- 7 7/8" out at 4880'.

3 - 7 7/8" out at 5480'.

Gas Detector: Woolsey Operating Company, Trailer #2

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: Superior Testing Company

Logged By Superior Well Services, Inc

LTD 5482'

DSTs

DST #1 4742 to 4880' Times 30-60-60-120

IF - Fair Blow BOB in 21 minutes, weak 1/4 to 1/2" blow back

FF- Good blow, BOB 1 minute, GTS in 55 minutes, TSTM, weak 1/4 to 1/2" blow back.

IHP 2442#

FHP 2388#

IFP 130-141#

FFP 135-153#

ISIP 1025#

FSIP 1353#

(Both shut-in pressures still building)


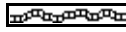
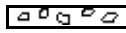










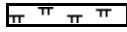
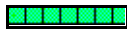
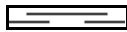




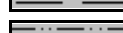


Recovery 125' Drilling Mud

(Slight show of oil between the shut-in tool and hydrolic tool)















































































CREWS

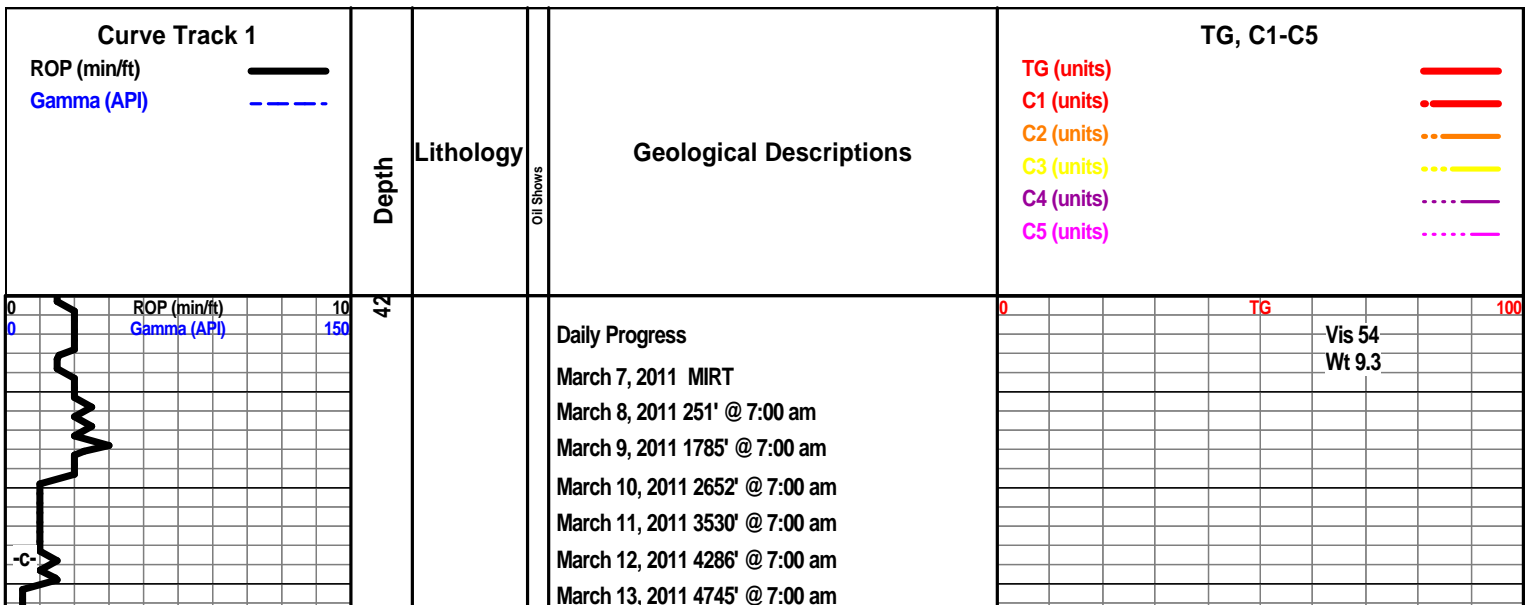
H2 Drilling Rig #3
 Tool Pusher - Randy Smith
 Drillers - Gary Axtell
 Cain Charles
 Luis Marquez

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  Sltys
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ACCESSORIES

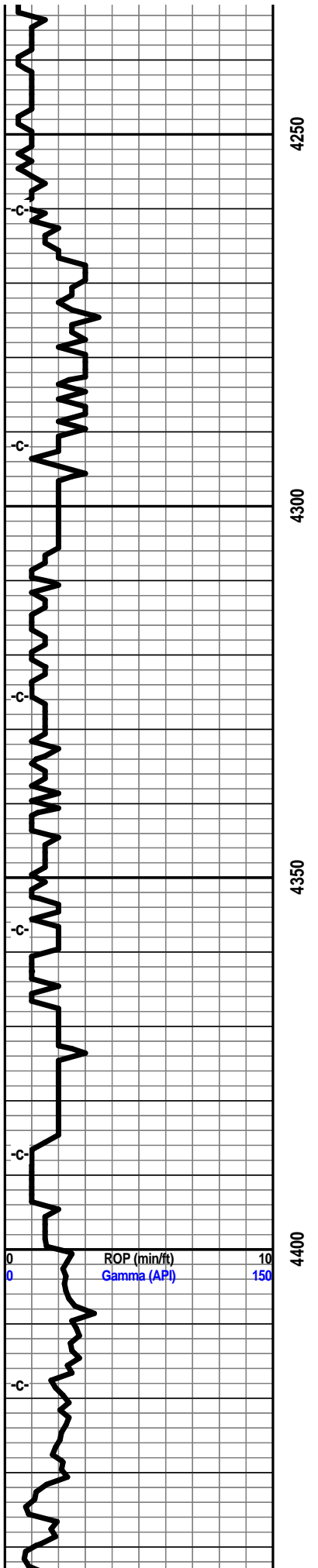
MINERAL  Anhy  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Ferrpel  Ferr  Glau  Gyp  Marl  Nodule  Phos  Pyr  Salt  Sandy  Silt	 Chlorite  Dol  Sand  Sltly FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pellet  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
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March 14, 2011 4980' @ 7:00 am

March 15, 2011 5185' @ 7:00 am

March 16, 2011 5480' @ 7:00 am

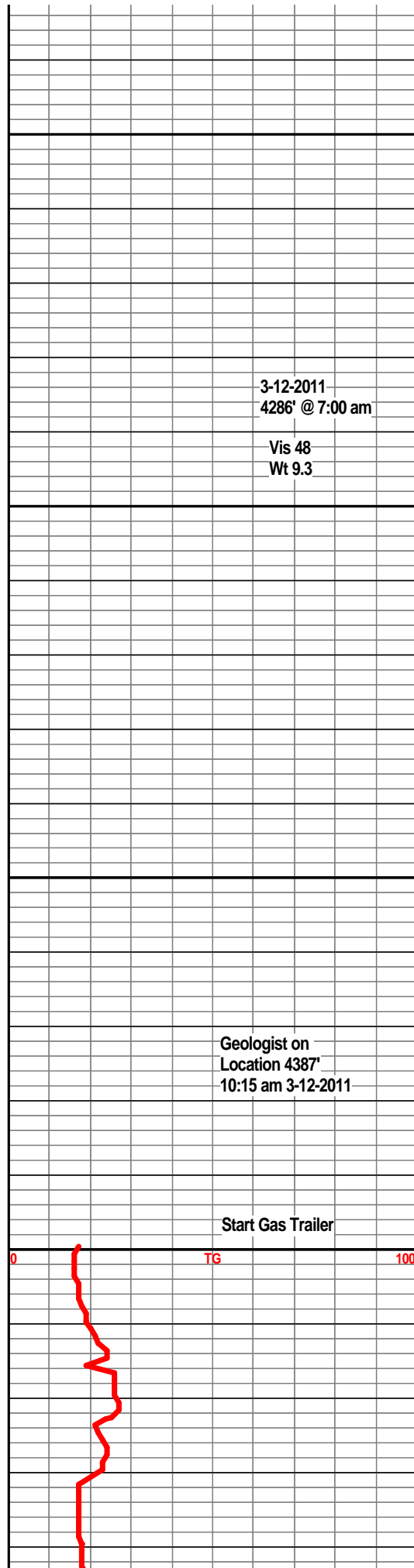


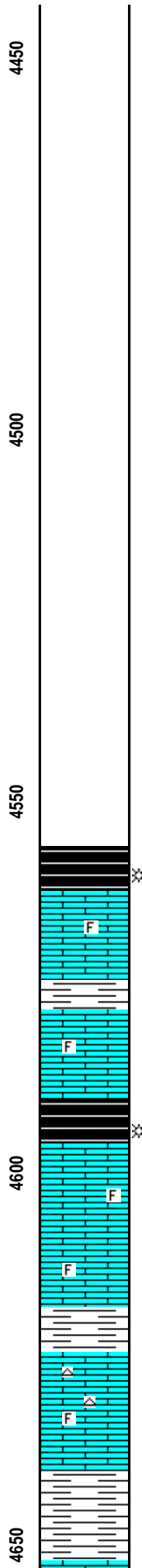
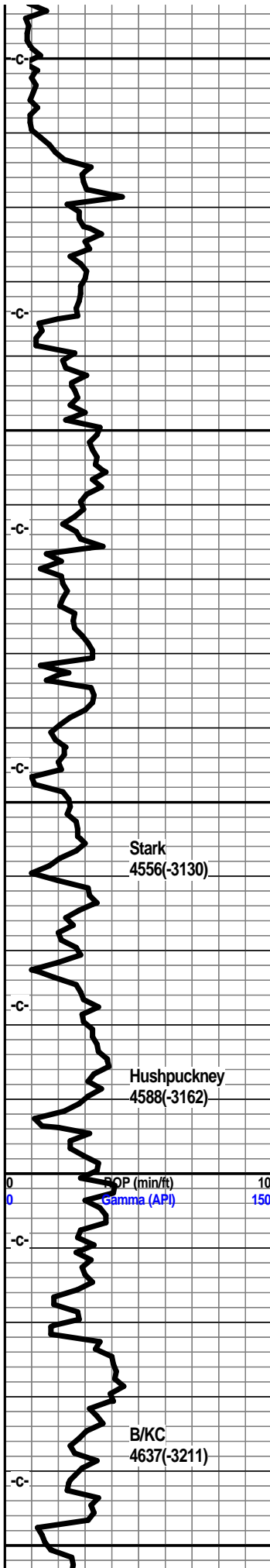
3-12-2011
4286' @ 7:00 am

Vis 48
Wt 9.3

Geologist on
Location 4387'
10:15 am 3-12-2011

Start Gas Trailer





Shale, grey-black, carb.

Limestone, cream-white, fxln, trace of foss., slightly chalky.

Shale, grey.

Limestone, cream, buff-white, xln, trace of grey chert.

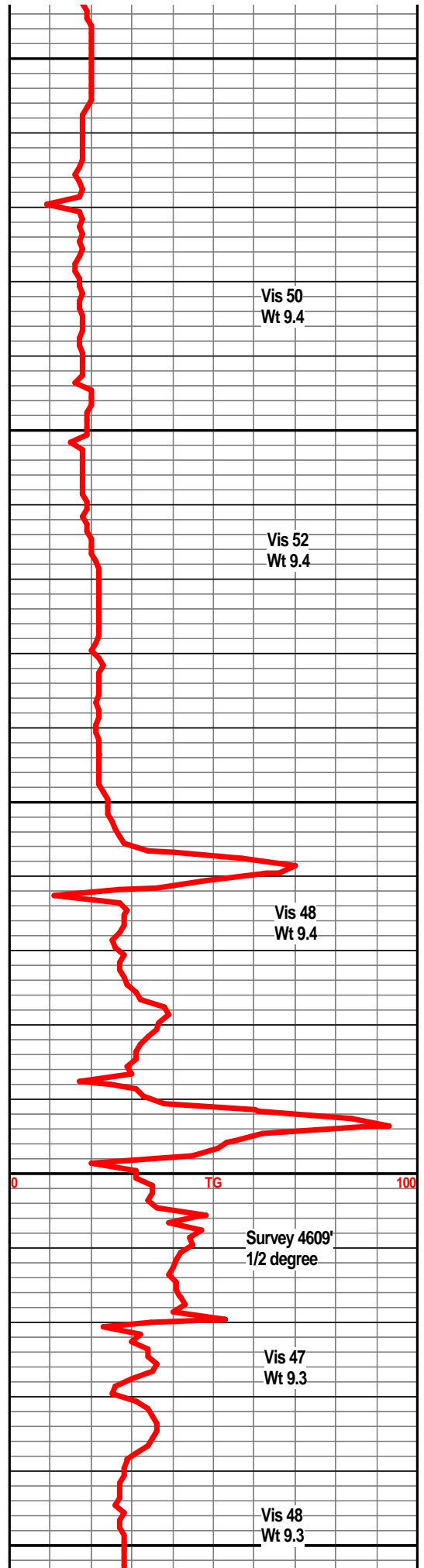
Shale, grey-black, carb.

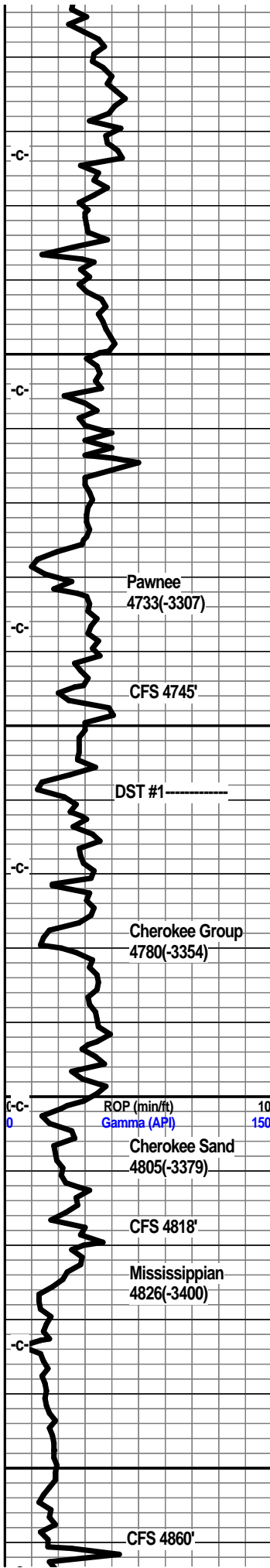
Limestone, cream, tan, fxln, partly dense, trace of foss, sub-chalky in part.

Shale, dark grey.

Limestone, tan-white, fxln, foss., sub-chalky, trace of grey cherts.

Shale, grey-green, slightly calcitic in part.





Limestone, cream, tan, xln, foss., in part, slightly shaley.

Shale, grey-green.

Limestone, cream, tan-white, fxln, slightly foss, shaley in part.

Shale, grey-green.

Limestone, cream, tan, xln, dense, slightly foss, traces of chert.

Limestone, tan, buff-white, xln, shaley towards base, slightly foss, trace of grey chert.

Shale, grey-black, carb.

Limestone, tan-white, cream, xln, slightly foss, trace xln porosity, dull fluor., no visible shows.

Limestone, cream-white, xln, partly dense, sub-chalky, foss. in part.

Shale, grey-black.

Limestone, cream, tan, xln, slightly foss.

Shale, grey-black, carb.

Limestone, tan, some buff-tan, fxln, dense, slightly foss.

Shale, grey-black, carb in part.

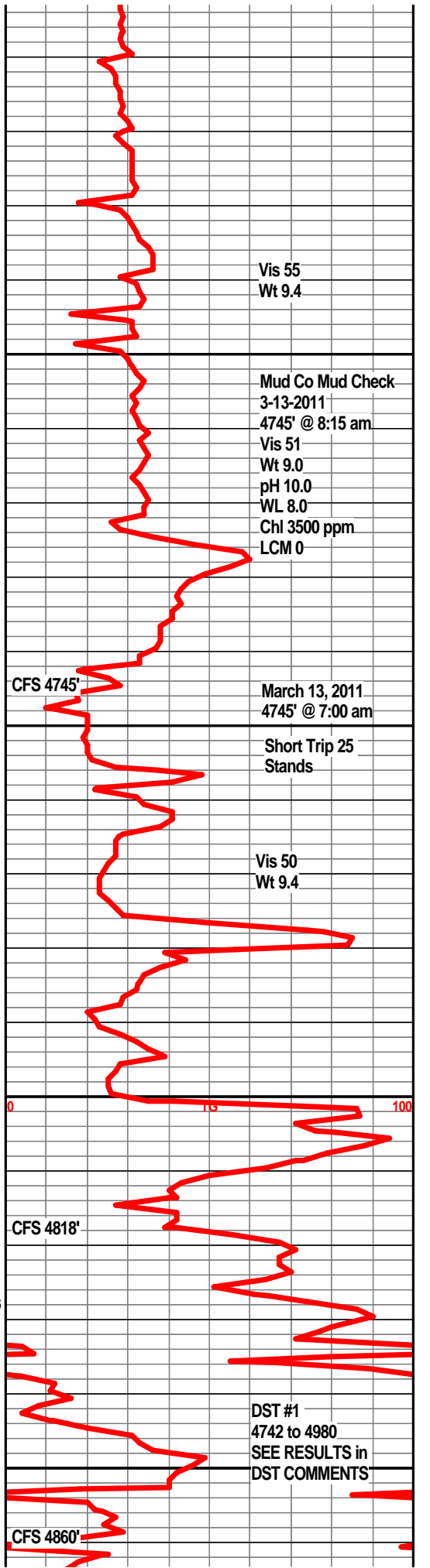
Sandstone, clear to grey-white, fine grained, fair sorting, fair even staining, friable in part, some well cemented, fair odor, some free oil in tray, trace of bleeding gas.

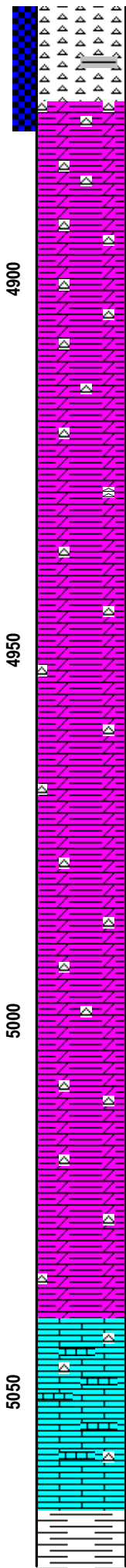
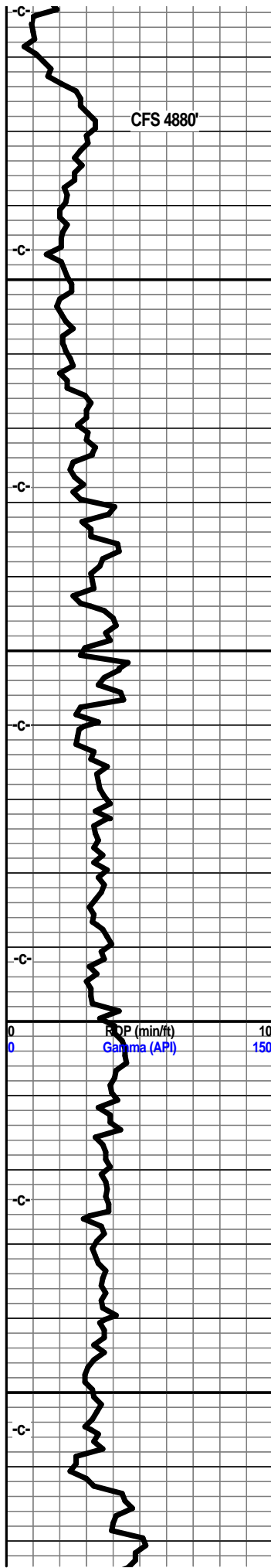
Shale, grey-green, vari-colored cherts, some sand stringers, trace pale green ls.

Chert, white to off-white, bone, sharp, few pieces weathered, some dark staining along edges, scattered weatered cherts with trace pin point porosity, faint odor, very slight show of oil, trace gas, dull fluor.

Chert, white to off-white, fresh, increasing weathered, pin point porosity, scattered very small vugs, fair odor, fair show of oil, trace of bleeding gas, spotted staining throughout, dull fluor, good gas indication.

Chert white off-white sharn fresh some





Chert, white, or white, sharp, fresh, some weathered chert with small scattered vug porosity, weathered chert has fair staining, sharp chert has fair staining along edges, faint odor, slight show gas, good gas indication, dull floor.

Dolo, tan-grey, xln, grey-green shales, trace of pyrite, cherty in part, with light staining.

Dolo., tan-grey, light grey, xln, grey green shales, cherty with light staining, no odor.

Dolo, grey-white, xln, dense, traces of sharp chert with edge staining, trace of weathered cherts with light uneven staining, grey-green splintery shales.

Dolo., light grey-grey, xln, dense, grey-green firm shales, some sharp cherts with edge staining, trace of weathered chert with uneven staining.

Dolo., light grey-white to grey, xln, traces of fresh chert, very small amount of light staining, abundant grey-green splintery shales.

Dolo., grey-white, xln, some fresh sharp cherts, grey-green shales.

Dolo, grey, light grey, xln, green-grey shales, increasing amounts of shales, trace of fresh chert.

Dolo, grey, xln, abundant grey-green shales, traces of fresh sharp chert.

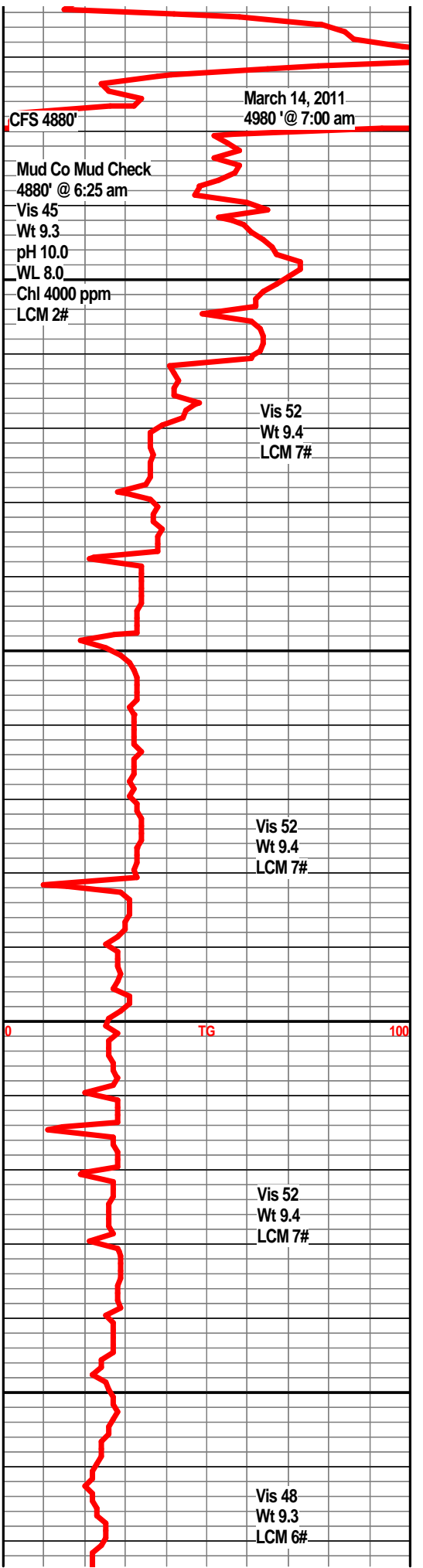
Dolo, grey, some light grey, grey-green splintery shales.

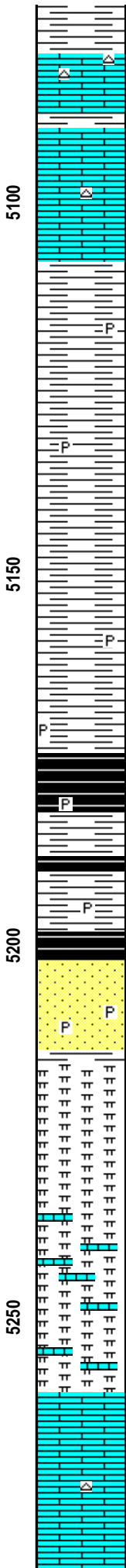
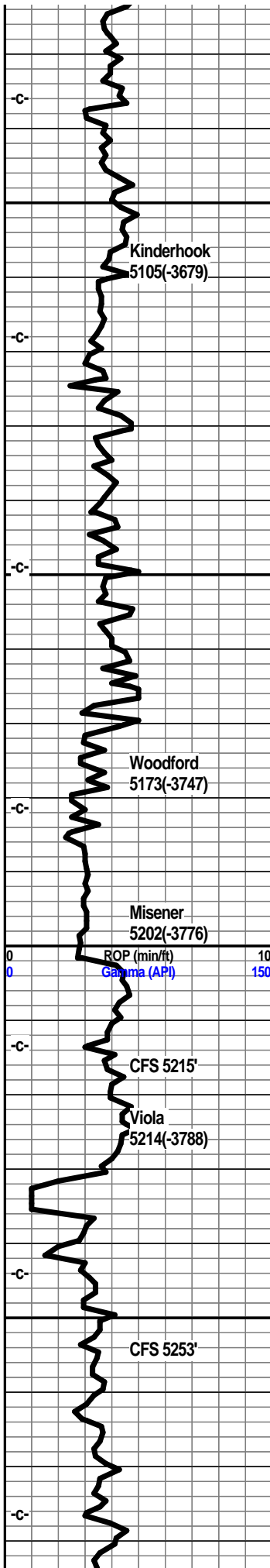
Dolo, grey, light grey, xln, trace of fresh sharp white cherts, grey-green splintery shales.

Dolo, grey, xln, green-grey shales.

Limestone, tan, tan-white, xln, dense, slightly cherty, sub-chalky in part.

Shale, grey-green.





Shale, pale green, dark green.

Limestone, buff, tan-white, xln, dense, foss, chaky in part.

Shale, grey-green, trace of pyrite.

Shale, grey, silty.

Shale, grey, dk grey.

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

Shale, grey-black, carb, traces of pyrite.

Sandstone, tan, tan-brown, very fine grained, poor sorting, well cemented, ?? brown staining, no odor, no gas indication, traces of pyrite.

Shale, pale green-grey.

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

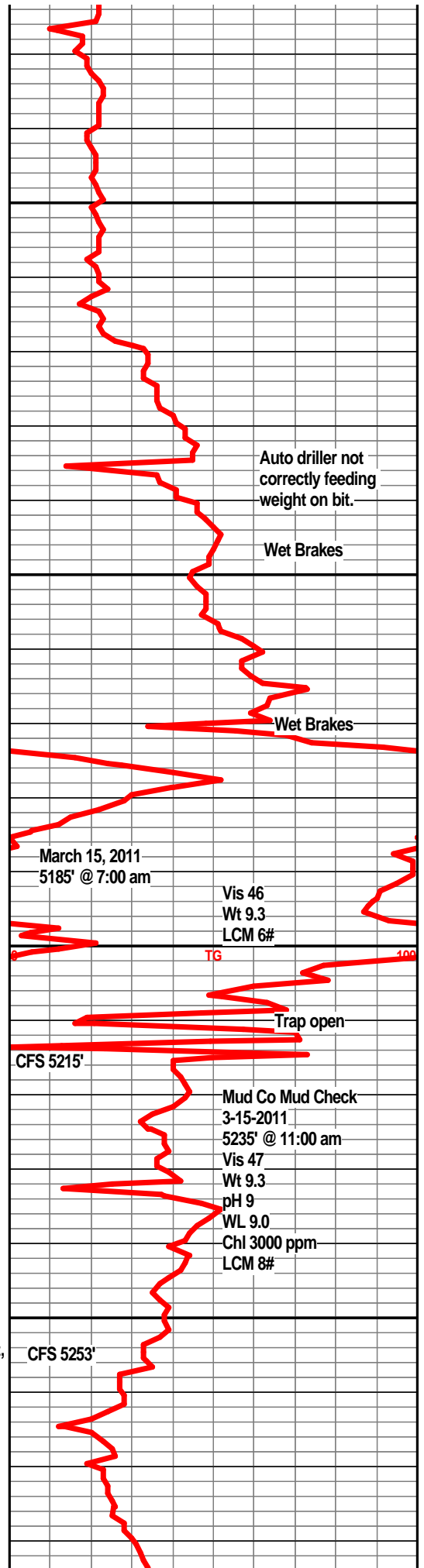
Dolo., Light grey-white, xln, soft, very fine grained.

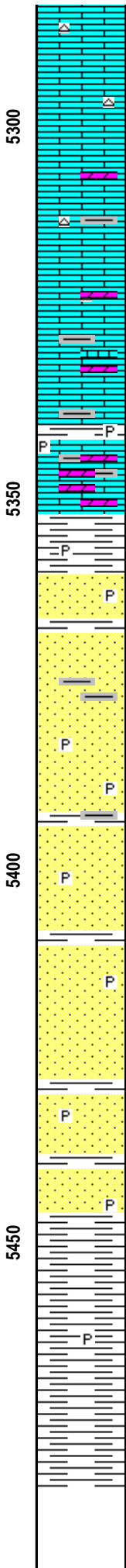
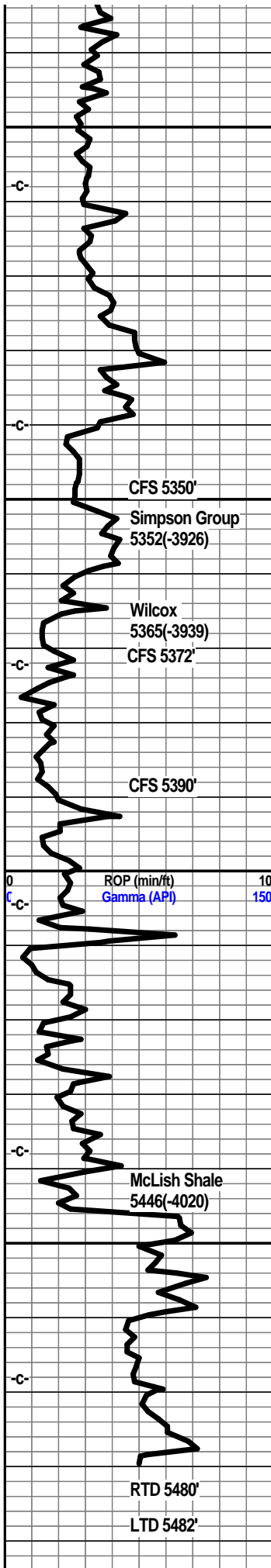
Dolo, grey-white, xln, fine grained, chalky, soft.

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

Dolo. grey-white, xln, fine grained, chalky in part, soft.

Limestone, grey-white, tan, mxln, xln porosity, traces of tan chert, no visible shows, no odor.





Limestone, tan-white, grey, xln, xln porosity, granular texture, traces of tan-white chert, no visible shows.

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

Limestone, tan-white, xln, tan cherts, grey-green shales. Dolo in part.

Limestone, tan-white, xln, traces of tan cherts, some shale stringers, slightly dolo in part, no visible porosity, no odor, no visible shows.

Limestone, tan. xln, very dolomitic, granular, well cemented, some shale inclusions. Slight show oil and gas, no odor, dull fluor.

Shale, pale green to dark green, trace pyrite.

Sandstone, clear to grey-white, SA to SR, fair sorting, few friable, some well cemented, trace of slight light brown staining.

Sandstone, clear to white, SA to SR, good sorting, very friable, glauc, no visible staining, no odor, free grains scattered in tray, very dull fluor.

Sandstone, clear to grey-white, sa to sr, friable, loose grains in tray, glauc, no visible staining, very slight show light oil under UV light, no odor, very dull fluor.

Sandstone, clear to white, sa to sr friable, glauc, spotty slight show under uv light, no odor, some interbedded shales, spotty fluor., traces of pyrite. ??? gas indication.

Shale, grey-green.

Sandstone, clear to grey-white, fair sorting, some dirty, glauc, pyrite, friable in part, dull spotty fluor, no odor.

Sandstone, clear, grey-white, fair sorting, friable, galuc, shaley in part, pyrite.

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

Shale, green, dark grey-green, firm, pyritic.

