Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1071426

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33168
Name: Woolsey Operating Company, LLC
Address 1: 125 N MARKET STE 1000
Address 2:
City: WICHITA State: KS Zip: 67202 + 1729
Contact Person: DEAN PATTISSON
Phone: (316) 267-4379
CONTRACTOR: License # 33793
Name: H2 Drilling LLC
Wellsite Geologist: SCOTT ALBERG
Purchaser: PLAINS MARKETING / BLUESTEM GAS MARKETING

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☑ Other *(Core, Expl., etc.)*: SI WOPL

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

09/13/2011 — Spud Date or Recompletion Date
09/21/2011 — Date Reached TD
11/14/2011 — Completion Date or Recompletion Date

API No. 15 - 15-007-23760-00-00
Spot Description:
_ E2 _ NE _ NW Sec. 26 Twp. 33 S. R. 11 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
2310 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barber
Lease Name: FORESTER F Well #: 2
Field Name: ROUNDUP SOUTH
Producing Formation: MISSISSIPPIAN
Elevation: Ground: 1481 Kelly Bushing: 1486
Total Vertical Depth: 5065 Plug Back Total Depth: 4904
Amount of Surface Pipe Set and Cemented at: 246 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 32000 ppm Fluid volume: 1800 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 01/11/2012
☑ **Confidential Release Date:** 01/10/2014
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/12/2012

1071426

Operator Name: Woolsey Operating Company, LLC Lease Name: FORESTER F Well #: 2

Sec. 26 Twp. 33 S. R. 11 ☐ East ☑ West County: Barber

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Compensated Density/Comp Neutron PE
Dual Induction

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	14.75	10.75	32.75	246	CLASS A	240	2% gel, 3% cc
PRODUCTION	7.875	5.5	15.5	4950	60/40 POZMIX	50	4% gel, 1/4# Celoflake
PRODUCTION	7.875	5.5	15.5	4950	CLASS H	100	10% salt, 10% Gypseal, 6# Kolseal, 1/4#

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	4538-4556	3950 gal 10% MIRA acid	4538-4615 OA
2	4558-4615	462,100 gal treated 2% KCl wtr, 138,000# 30/70 sd,	
		60,800# 16/30 sd & 17,500# 16/30 resin coated sd	4538-4615 OA

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL: 4538-4615 OA

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	FORESTER F 2
Doc ID	1071426

Tops

Name	Top	Datum
CHASE	1800	-314
ONAGA	2653	-1167
HEEBNER	3648	-2162
DOUGLAS	3677	-2191
LANSING A	3849	-2363
PAWNEE LS	4484	-2998
MISSISSIPPIAN	4538	-3052
KINDERHOOK	4755	-3269
SIMPSON	4967	-3481

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

January 06, 2012

DEAN PATTISSON
Woolsey Operating Company, LLC
125 N MARKET STE 1000
WICHITA, KS 67202-1729

Re: ACO1
API 15-007-23760-00-00
FORESTER F 2
NW/4 Sec.26-33S-11W
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
DEAN PATTISSON

ALLIED CEMENTING CO., LLC. 037732

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Medicine Lodge

DATE 9-13-11	SEC. 26	TWP. 33s	RANGE 11w	CALLED OUT	ON LOCATION	JOB START 9:00pm	JOB FINISH 9:30pm
LEASE Forrester	WELL # 2		LOCATION Gerlane 3W top, East to stoplight			COUNTY Barber	STATE KS
OLD OR NEW (Circle one)			East around curves North then E into				

CONTRACTOR H-2 Rig #3
TYPE OF JOB Surface
HOLE SIZE 14 3/4 T.D. 250'
CASING SIZE 10 3/4 DEPTH 234'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 300psi MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 20'
PERFS.
DISPLACEMENT 23 bbls H2O

OWNER Woolsey Operating

CEMENT
AMOUNT ORDERED 240sx A + 3%cc + 2% gel

EQUIPMENT

PUMP TRUCK CEMENTER Matt Wiesch
414/302 HELPER Ron Bailey
BULK TRUCK
364 DRIVER Austin Elam
BULK TRUCK
DRIVER

COMMON A	240 sx	@ 16.25	3900.00
POZMIX		@	
GEL	5 sx	@ 21.25	106.25
CHLORIDE	9 sx	@ 58.20	523.80
ASC		@	
HANDLING	254	@ 2.25	571.50
MILEAGE	15/-11/254		419.10
		TOTAL	5520.65

REMARKS:

Brk circ.
pump 3 bbls H2O ahead
mix 240sx cement
disp 23 bbls H2O shut in.
cement did circulate

SERVICE

DEPTH OF JOB	234'		
PUMP TRUCK CHARGE			1625.00
EXTRA FOOTAGE		@	
MILEAGE	30	@ 7.00	210.00
MANIFOLD		@	
Light Vehicle	30	@ 4.00	120.00
		@	
		TOTAL	1955.00

CHARGE TO: Woolsey Operating
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 6975.65
DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Mike Tharp
SIGNATURE

OCT 21 2011

ALLIED CEMENTING CO., LLC. 037736

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Med Lodge KS

DATE 9-21-11	SEC. 26	TWP. 33S	RANGE 11W	CALLED OUT	ON LOCATION	JOB START 9:30pm	JOB FINISH 10:30pm
LEASE Forrester	WELL # 2		LOCATION Cedar BlkTop E to stop sign			COUNTY Barber	STATE KS
OLD OR NEW (Circle one)			Ecround curves N+E into				

CONTRACTOR H-2 Rig #3
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 5063'
CASING SIZE 5 1/2 DEPTH 4950'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 1500 psi MINIMUM
MEAS. LINE SHOE JOINT 44'
CEMENT LEFT IN CSG. 44'
PERFS.
DISPLACEMENT 117 1/2 bbls 2% KCL

OWNER Woolsey Operating

EQUIPMENT

PUMP TRUCK CEMENTER Matt Thompson
414/362 HELPER Ron Gilley
BULK TRUCK
421/252 DRIVER Adam Miller
BULK TRUCK
DRIVER

REMARKS:

Brk circ. pump ball through
mix 25sx for Rathole
mix 50 sx Scavenger cement
mix 100sx cement
Shut down, wash pump + lines
Release plug disp. 2% KCL
117 1/2 bbls bump plug 800psi to 1500psi

CEMENT

AMOUNT ORDERED 75sx 60:40:4%-gel
100 sx class A + 10% Gypseal + 10% Salt
+ 6# Kolseal + .8% FL-160 + 1/4# Floseal
12 gal Clapro

COMMON	45 sx	@ 16.25	731.25
POZMIX	30 sx	@ 8.50	255.00
GEL	3 sx	@ 21.25	63.75
CHLORIDE		@	
ASC		@	
H	100 sx	@ 22.15	2215.00
Gypseal	10 sx	@ 34.20	1034.20
Salt	11 sx	@ 12.00	132.00
Kolseal	600 #	@ .89	534.00
FL-160	75 #	@ 17.20	1290.00
Floseal	25 #	@ 2.70	67.50
Clapro	12 Gals	@ 31.25	375.00
		@	
HANDLING	213	@ 2.25	479.25
MILEAGE	213/.11/15		351.45
		TOTAL	7528.40

SERVICE

DEPTH OF JOB 4950'
PUMP TRUCK CHARGE 2405.00
EXTRA FOOTAGE @
MILEAGE 30 @ 7.00 210.00
MANIFOLD Head Rental @ 200.00
Light Vehicle 30 @ 4.00 120.00
@
TOTAL 2935.00

CHARGE TO: Woolsey Operating
STREET
CITY STATE ZIP

Woolsey Operating (IC?)
Approved
Date 10/31/11

5 1/2 PLUG & FLOAT EQUIPMENT

1- AFU guide Shoe	@	349.00
1- Latch down plug Assy	@	277.00
20- Scratchers	@ 76.00	1520.00
8- turbolizers	@ 80.00	640.00
	@	
	TOTAL	2786.00

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 13,249.40
DISCOUNT 20% IF PAID IN 30 DAYS
NET 10,599.52

PRINTED NAME Mike Thorp
SIGNATURE

WELL FILE
Regulatory Correspondence
Drlg Comp Workovers
Tests / Meters Operations
OCT 27 2011

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

125 North Market
Suite 100
Wichita, Kansas 67202+1729
ATTN: Scott Alberg

Forester F #2

26/33S/11W/Barber

Job Ticket: 15847 **DST#: 1**

Test Start: 2011.09.18 @ 23:19:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:13:30
Time Test Ended: 09:06:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Pratt/90

Interval: 4500.00 ft (KB) To 4558.00 ft (KB) (TVD)
Total Depth: 4558.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

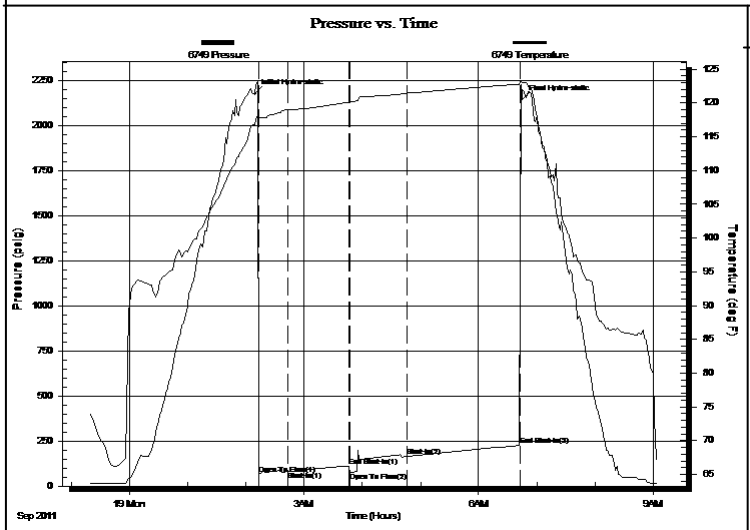
Reference Elevations: 1486.00 ft (KB)
1477.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6749 **Inside**

Press@RunDepth: 226.41 psig @ 4554.06 ft (KB)
Start Date: 2011.09.18 End Date: 2011.09.19
Start Time: 23:19:00 End Time: 09:05:30

Capacity: 5000.00 psig
Last Calib.: 2011.09.19
Time On Btm: 2011.09.19 @ 02:09:30
Time Off Btm: 2011.09.19 @ 06:44:30

TEST COMMENT:
1ST Open 30 Minutes/Weak blow /Blow built to 1 1/2 inches
1ST Shut In 60 Minutes/No blow back
2ND Open 60 Minutes/No blow /Flush tool/Didnt help
2ND Shut In 120 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.64	116.87	Initial Hydro-static
4	67.71	117.90	Open To Flow (1)
34	80.02	119.08	Shut-In(1)
97	112.77	120.11	End Shut-In(1)
98	74.30	120.18	Open To Flow (2)
157	164.72	121.47	Shut-In(2)
273	226.41	122.80	End Shut-In(2)
275	2143.07	123.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company LLC

125 North Market
Suite 100
Wichita, Kansas 67202+1729
ATTN: Scott Alberg

Forester F #2

26/33S/11W/Barber

Job Ticket: 15847 **DST#: 1**

Test Start: 2011.09.18 @ 23:19:00

Tool Information

Drill Pipe:	Length:	4235.00 ft	Diameter:	3.88 inches	Volume:	61.93 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	247.00 ft	Diameter:	2.25 inches	Volume:	1.21 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	63.14 bbl	Tool Chased		2.00 ft
Drill Pipe Above KB:		10.75 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		4500.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		58.06 ft							
Tool Length:		86.81 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-in tool	5.00			4476.25		
Hydrolic tool	5.00			4481.25		
Change over sub	0.75			4482.00		
Jars	6.00			4488.00		
Safety Joint	2.00			4490.00		
Packer	5.00			4495.00	28.75	Bottom Of Top Packer
Packer	5.00			4500.00		
Anchor	5.00			4505.00		
change over sub	0.75			4505.75		
drill pipe	31.56			4537.31		
change over sub	0.75			4538.06		
anchor	15.00			4553.06		
Recorder	1.00	6749	Inside	4554.06		
Recorder	1.00	6748	Outside	4555.06		
bull plug	3.00			4558.06	58.06	Bottom Packers & Anchor
Total Tool Length:	**86.81**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company LLC

125 North Market
Suite 100
Wichita, Kansas 67202+1729
ATTN: Scott Alberg

Forester F #2

26/33S/11W/Barber

Job Ticket: 15847 **DST#: 1**

Test Start: 2011.09.18 @ 23:19:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.00 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

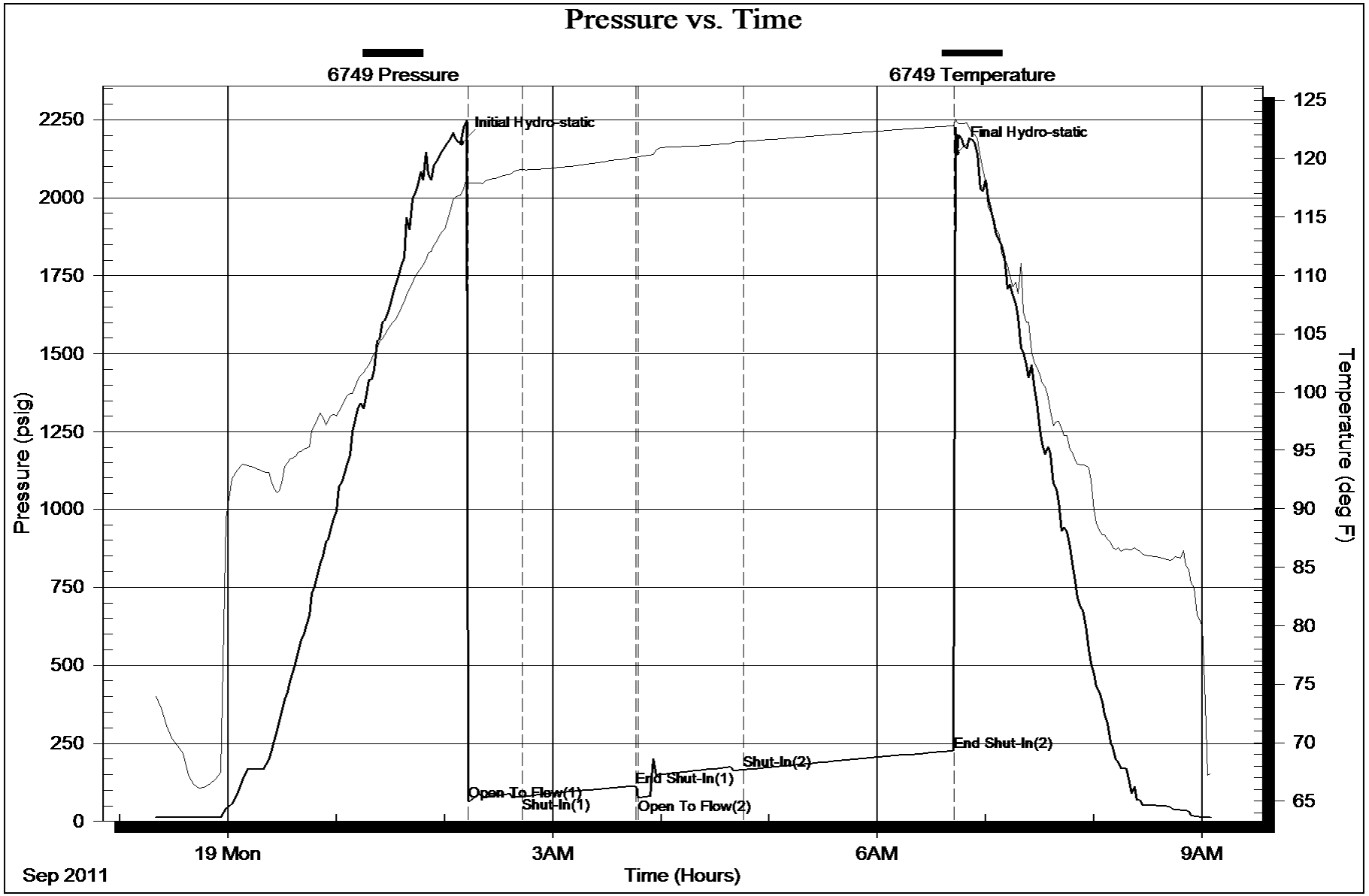
Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6749 **Inside** Woolsey Operating Company LLC 26/33S/11W/Barber DST Test Number: 1



Superior Testers Enterprises LLC Ref. No: 15847 Printed: 2011.09.19 @ 07:22:07

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**	**Region:**	**Barber County, Kansas**
Spud Date:	**September 13, 2011**	**Drilling Completed:**	**September , 2011**
Surface Coordinates:	**660' FNL, 2310' FWL Section 26-Twp 33 South - Rge 11 West**		
	Roundup South Pool		
Bottom Hole Coordinates:	**Vertical Hole**		
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'.**		

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

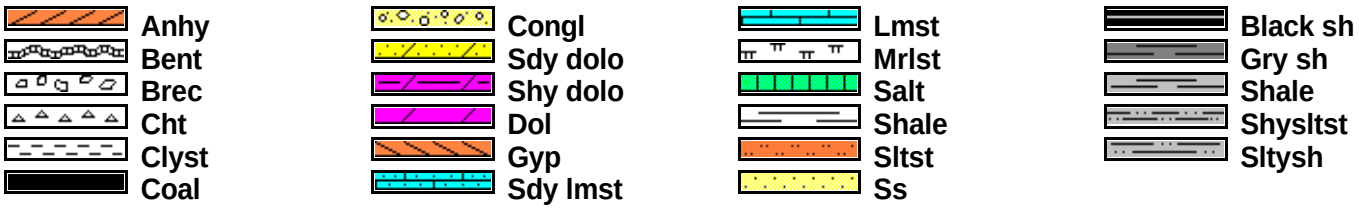
DSTs

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



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
Slty

FOSSIL

Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra

Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomoldic

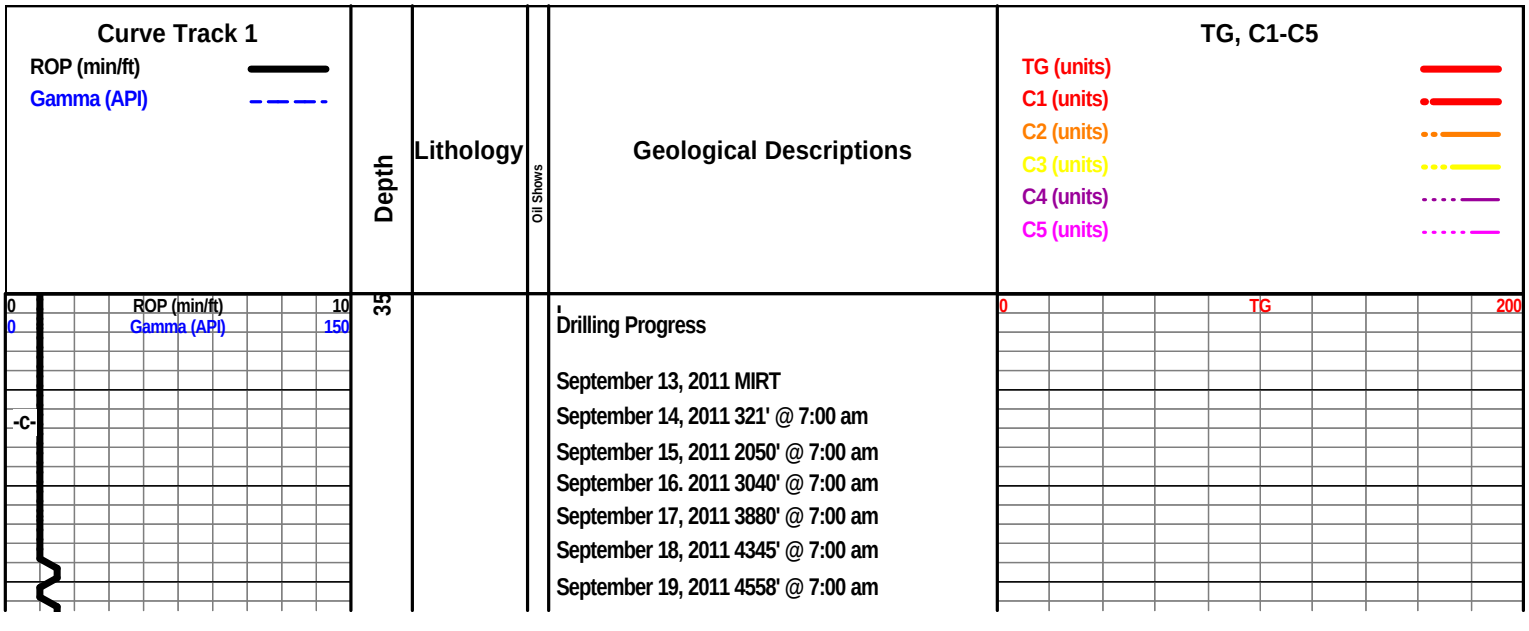
STRINGER

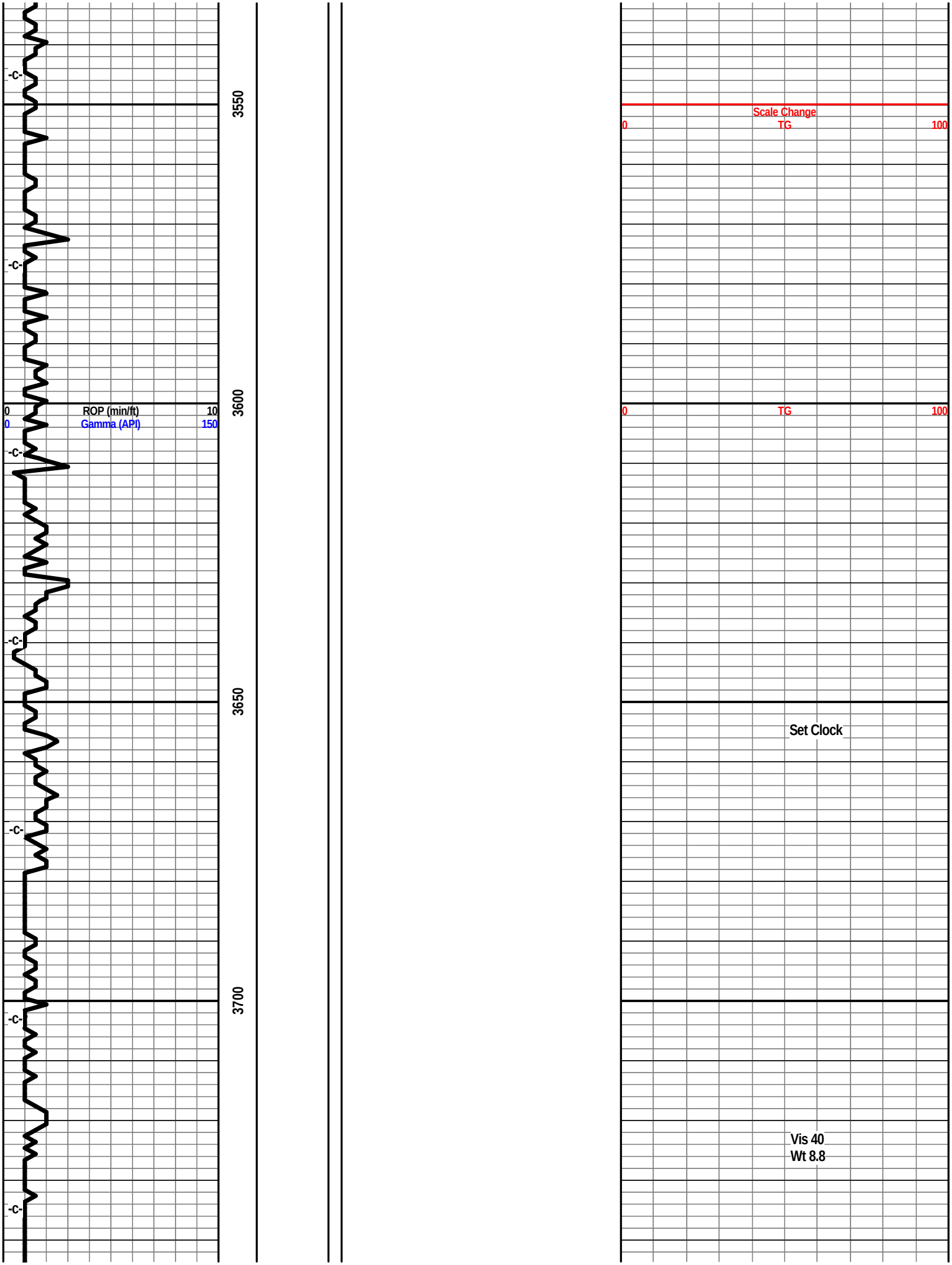
Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh
Clystn
Dol

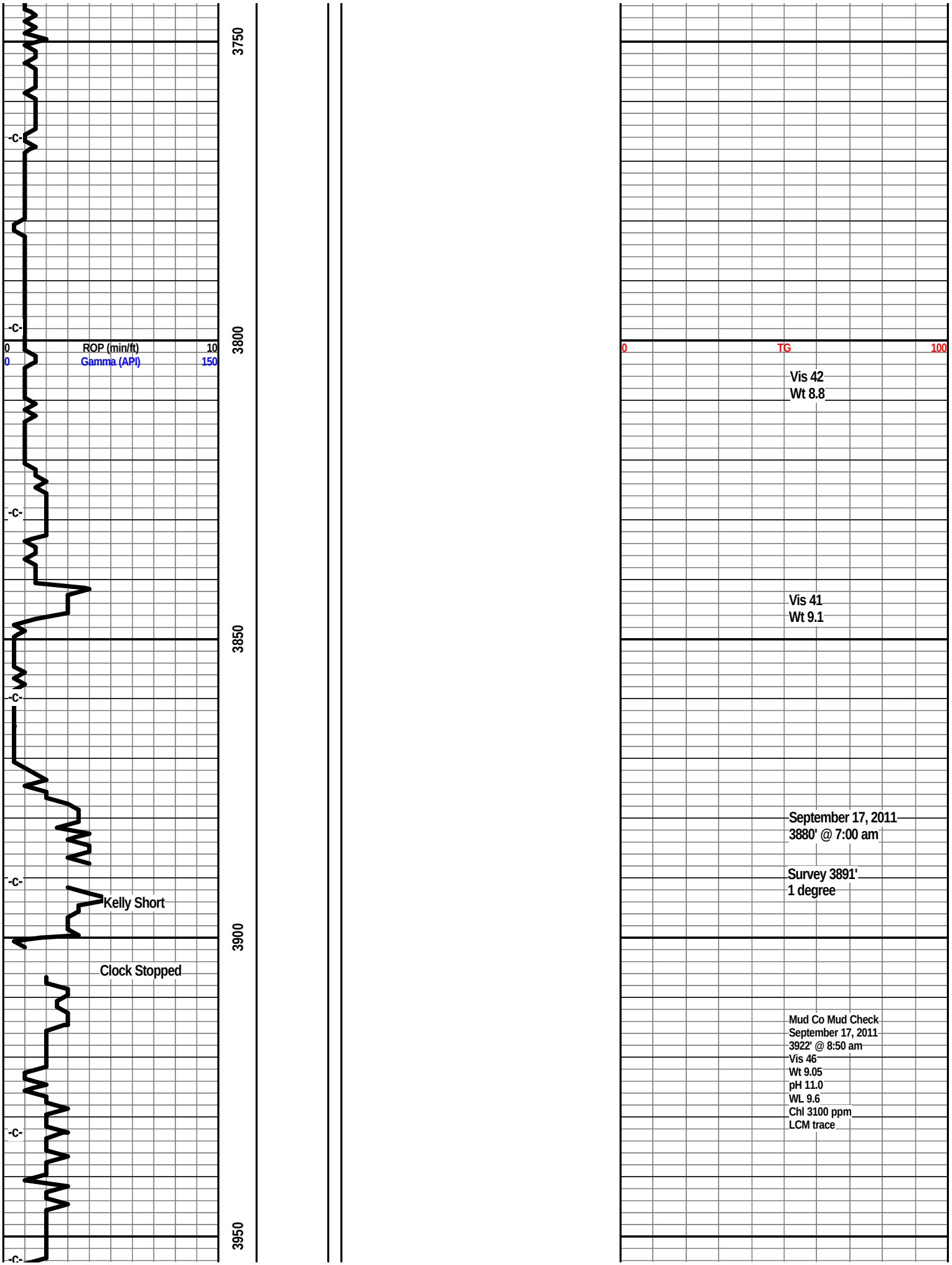
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

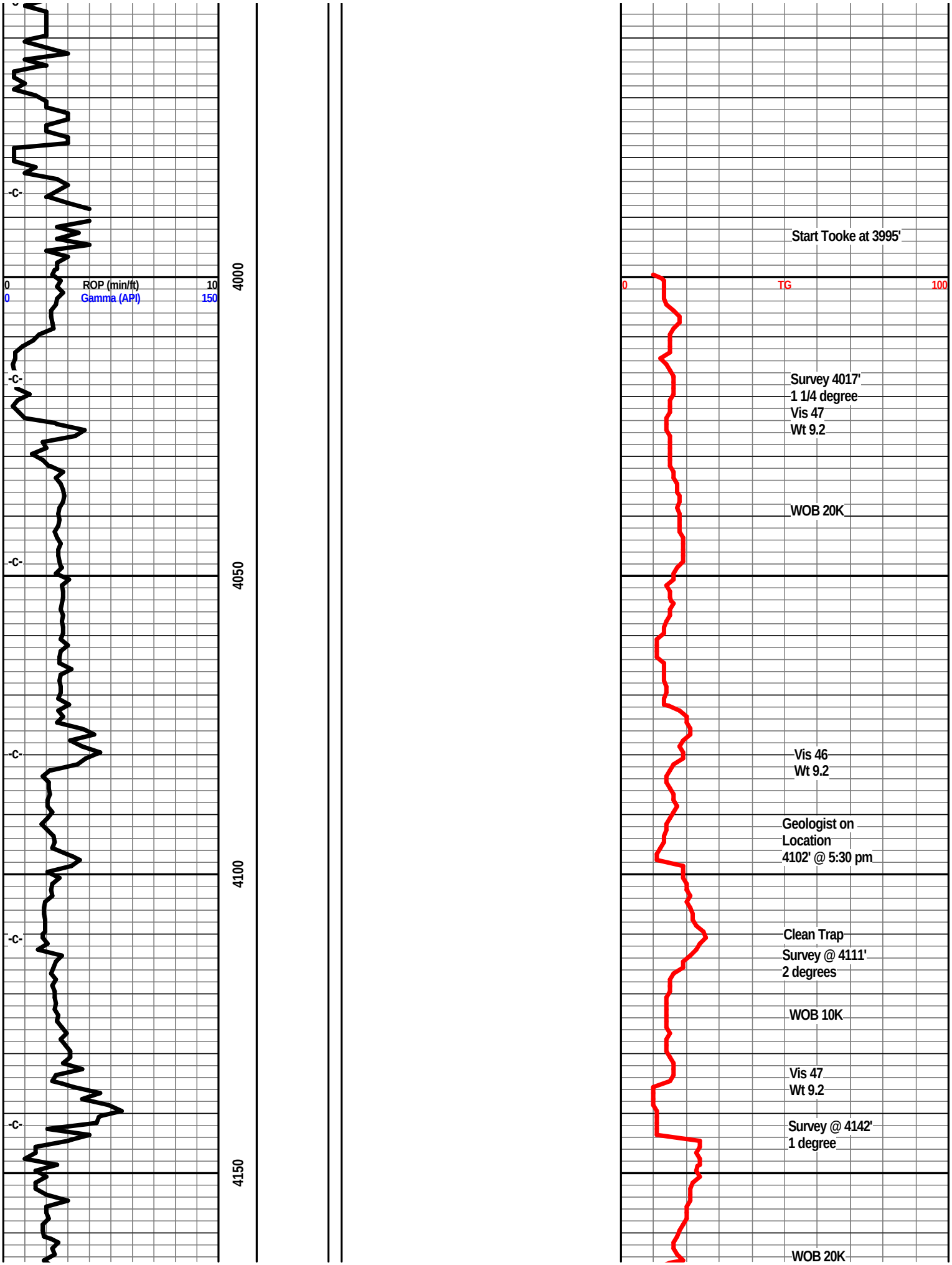
TEXTURE

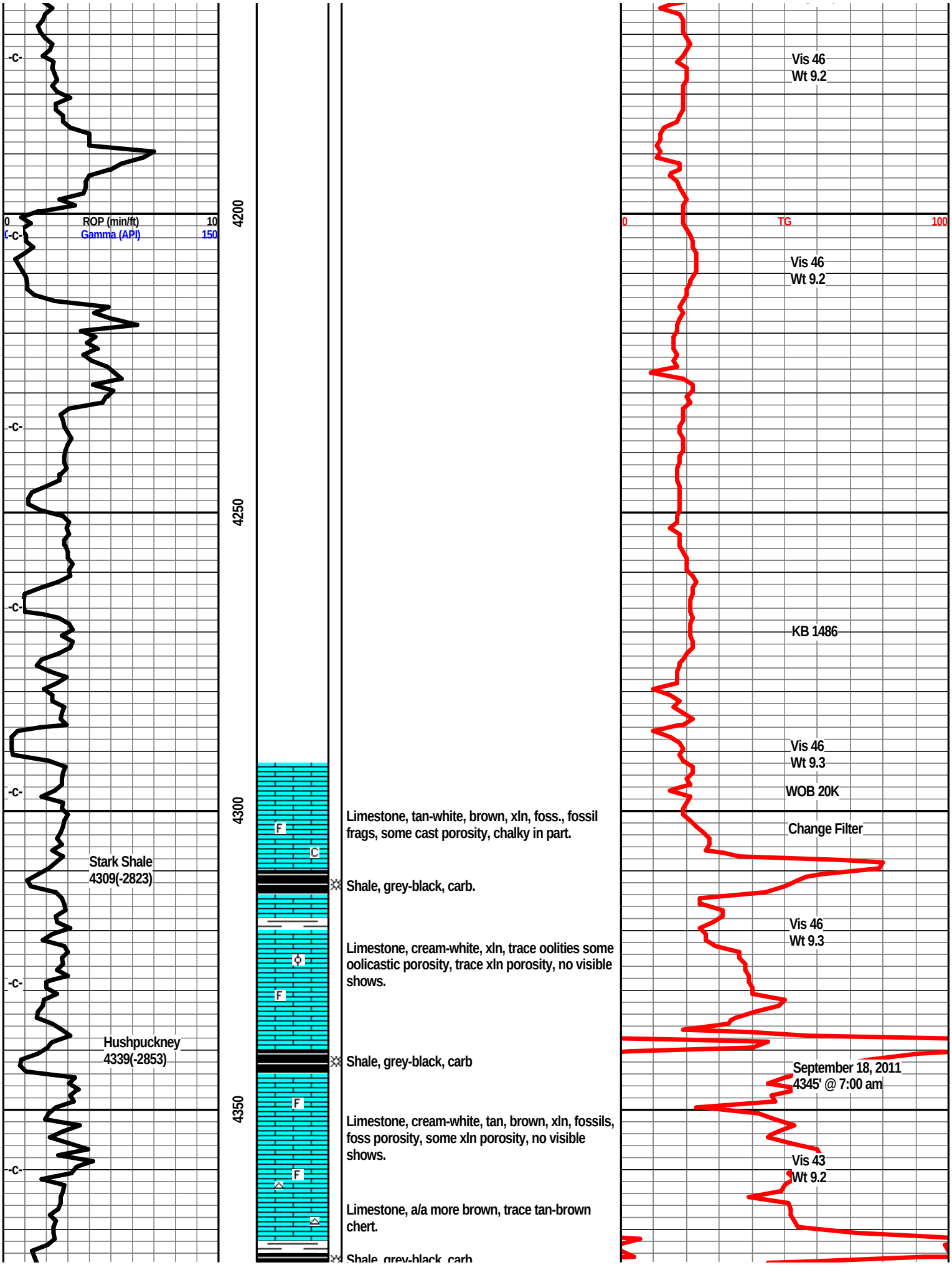
BS Boundst
C Chalky
CX Cryxln
E Earthy
FX Finexln
GS Grainst
L Lithogr
MX Microxln
MS Mudst
PS Packst
WS Wackest

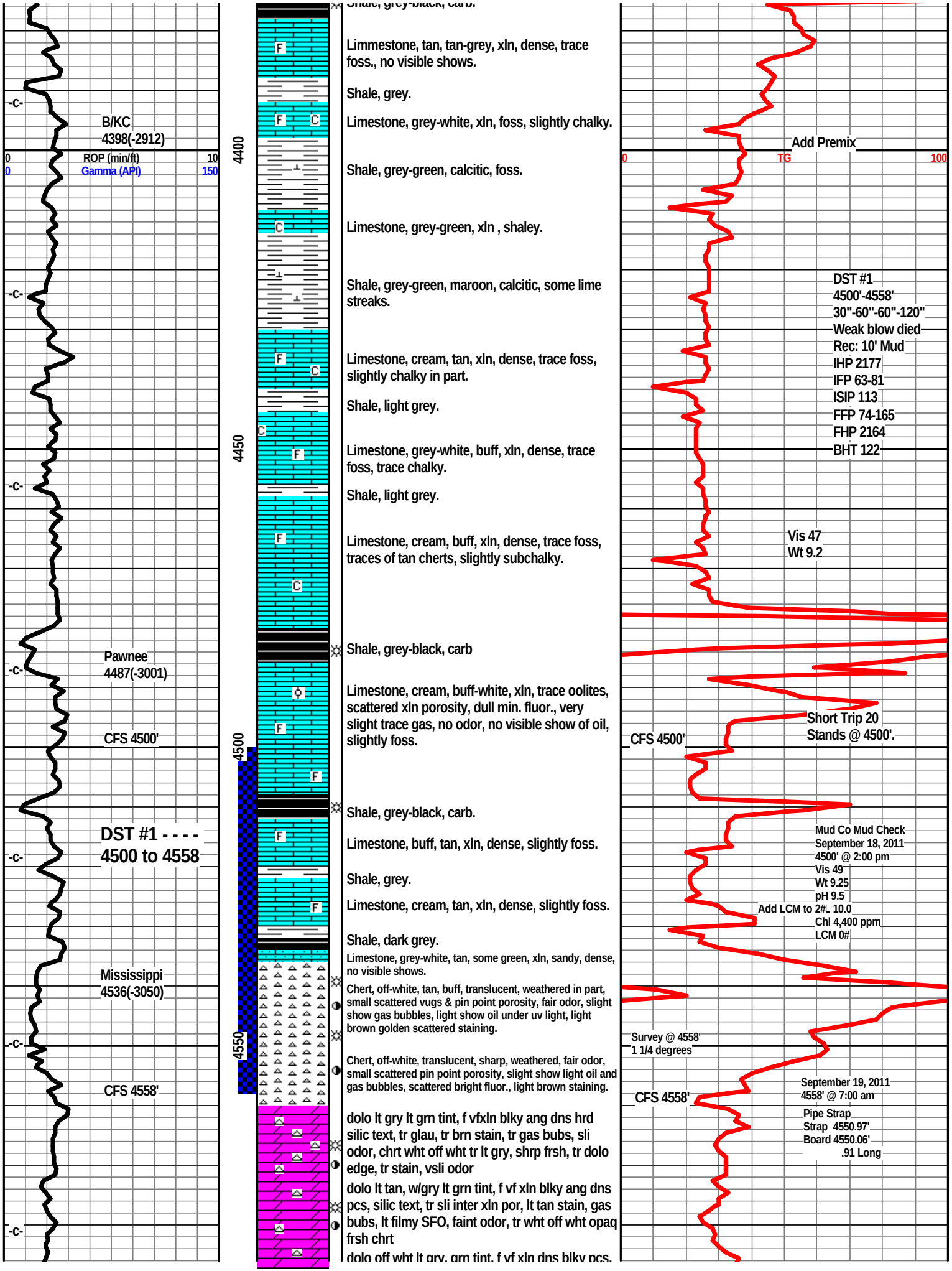


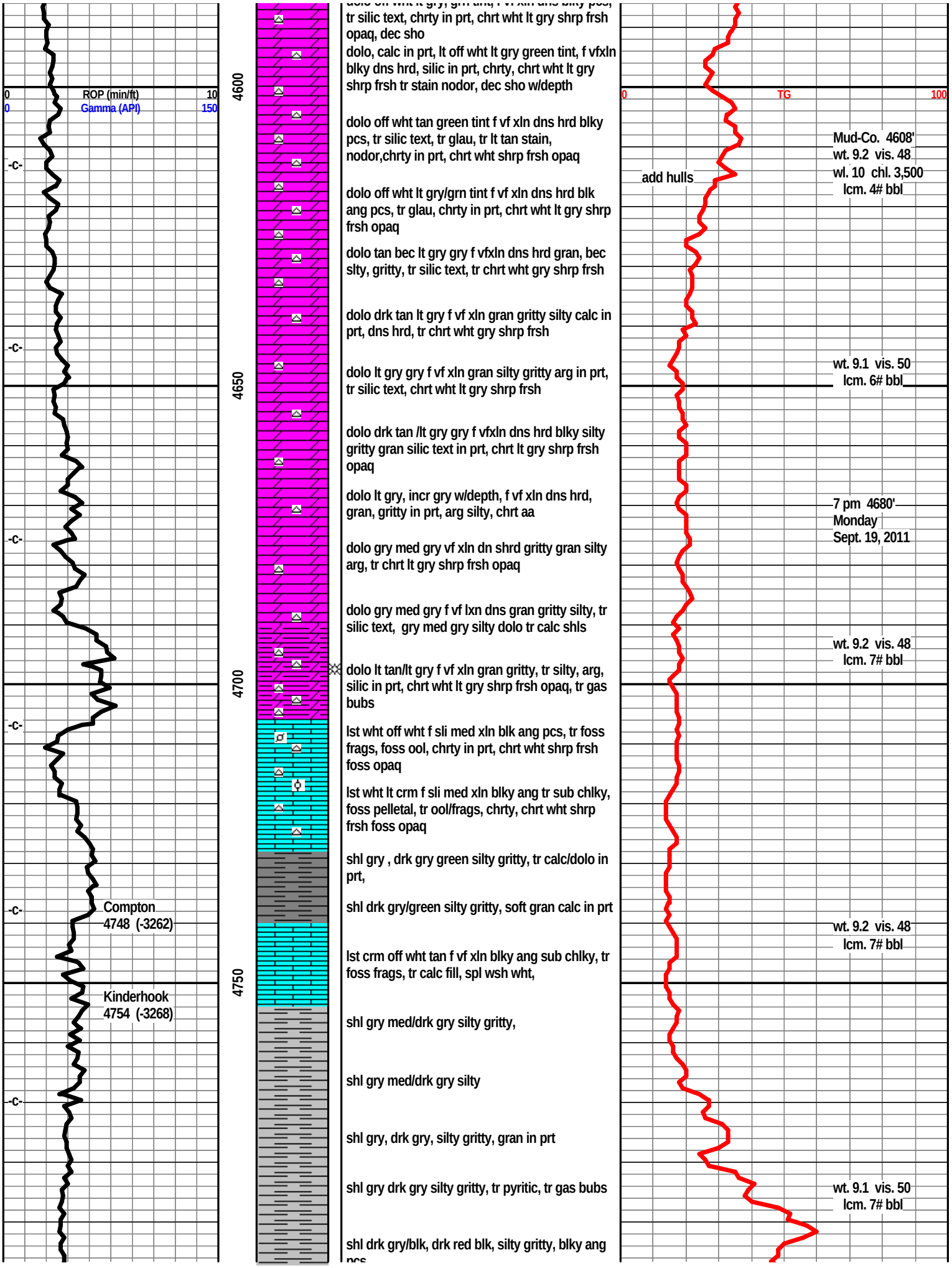

3550
3600
3650
3700
0
ROP (min/ft)
10
0
Gamma (API)
150
Scale Change
0
TG
100
0
TG
100
Set Clock
Vis 40
Wt 8.8

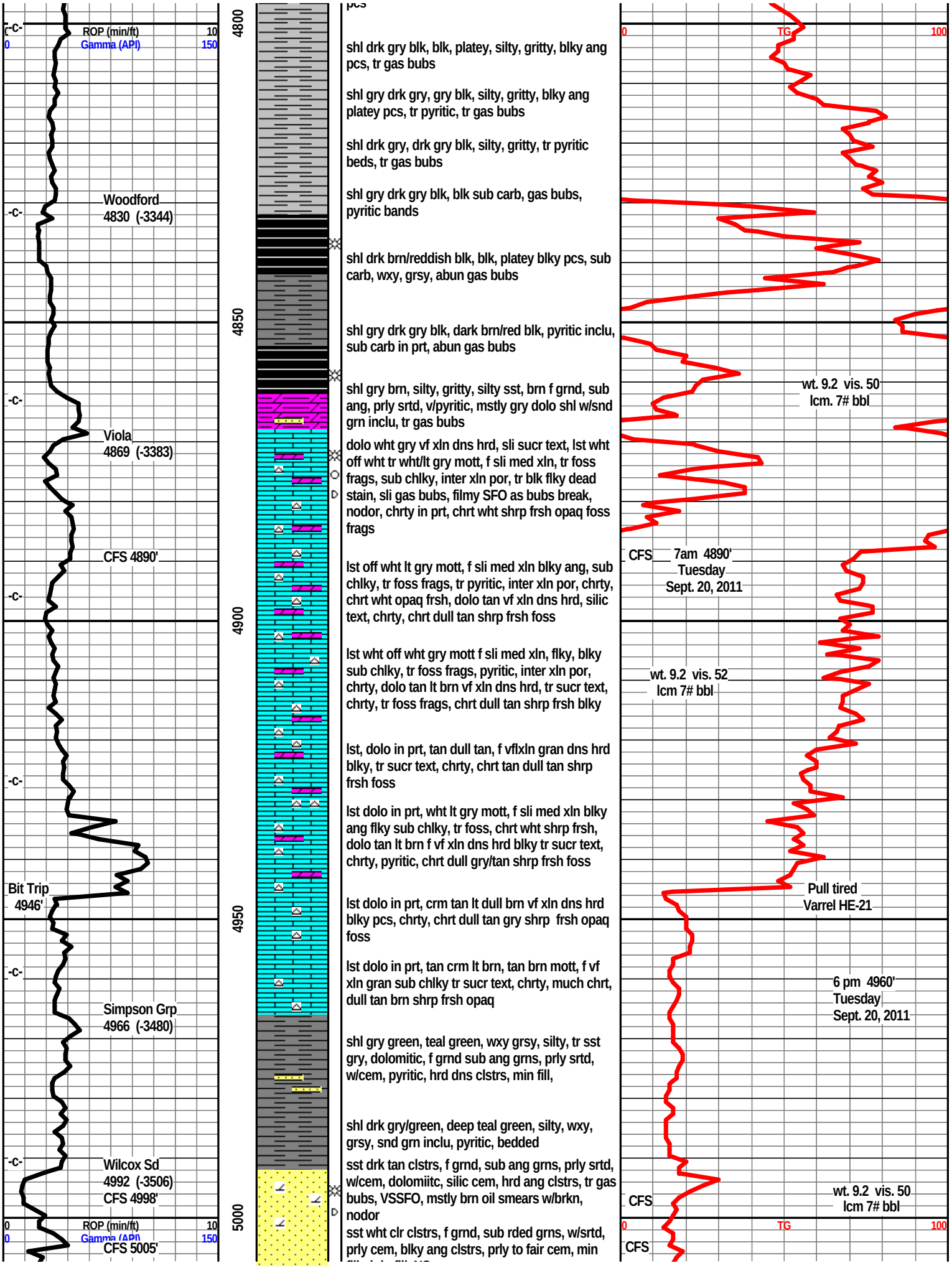

3750
3800
3850
3900
3950
0
ROP (min/ft)
10
0
Gamma (API)
150
0
TG
100
Vis 42
Wt 8.8
Vis 41
Wt 9.1
Kelly Short
Clock Stopped
September 17, 2011
3880' @ 7:00 am
Survey 3891'
1 degree
Mud Co Mud Check
September 17, 2011
3922' @ 8:50 am
Vis 46
Wt 9.05
pH 11.0
WL 9.6
Chl 3100 ppm
LCM trace

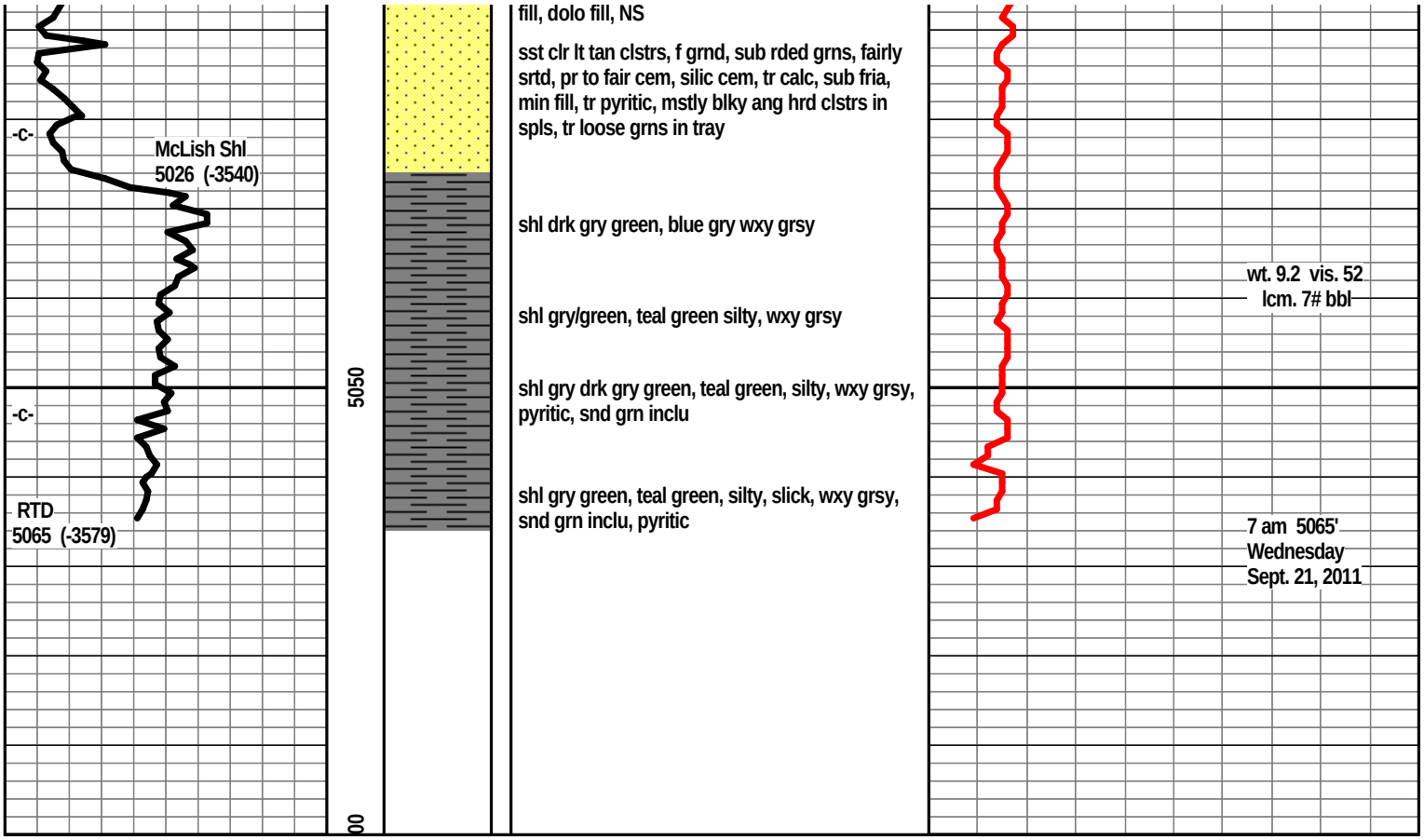

0
ROP (min/ft)
10
0
Gamma (API)
150
-C-
-C-
-C-
-C-
-C-
-C-
4000
4050
4100
4150
Start Tooke at 3995'
0
TG
100
Survey 4017'
1 1/4 degree
Vis 47
Wt 9.2
WOB 20K
Vis 46
Wt 9.2
Geologist on
Location
4102' @ 5:30 pm
Clean Trap
Survey @ 4111'
2 degrees
WOB 10K
Vis 47
Wt 9.2
Survey @ 4142'
1 degree
WOB 20K


0
ROP (min/ft)
10
Gamma (API)
150
4200
4250
4300
4350
Stark Shale
4309(-2823)
Hushpuckney
4339(-2853)
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 oolicastic 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
0
TG
100
Vis 46
Wt 9.2
Vis 46
Wt 9.2
KB 1486
Vis 46
Wt 9.3
WOB 20K
Change Filter
Vis 46
Wt 9.3
September 18, 2011
4345' @ 7:00 am
Vis 43
Wt 9.2


B/KC
4398(-2912)
0
ROP (min/ft)
10
0
Gamma (API)
150
Pawnee
4487(-3001)
CFS 4500'
DST #1 - - - -
4500 to 4558
Mississippi
4536(-3050)
CFS 4558'
4400
4450
4500
4550
Shale, grey-black, carb.
Limmestone, 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 blky 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 blky ang dns pcs, silic text, tr sli inter xln por, lt tan stain, gas bubs, lt filmy SFO, faint odor, tr wht off wht opaq frsh chrt
dolo off wht lt gry, grn tint, f vf xln dns blky pcs,
Add Premix
0
TG
100
DST #1
4500'-4558'
30"-60"-60"-120"
Weak blow died
Rec: 10' Mud
IHP 2177
IFP 63-81
ISIP 113
FFP 74-165
FHP 2164
BHT 122
Vis 47
Wt 9.2
Short Trip 20
Stands @ 4500'.
CFS 4500'
Mud Co Mud Check
September 18, 2011
4500' @ 2:00 pm
Vis 49
Wt 9.25
pH 9.5
Add LCM to 2#- 10.0
Chl 4,400 ppm
LCM 0#
Survey @ 4558'
1 1/4 degrees
CFS 4558'
September 19, 2011
4558' @ 7:00 am
Pipe Strap
Strap 4550.97'
Board 4550.06'
.91 Long


0
ROP (min/ft)
10
0
Gamma (API)
150
-c-
-c-
-c-
-c-
-c-
Compton
4748 (-3262)
Kinderhook
4754 (-3268)
4600
4650
4700
4750
tr silic text, chrty in prt, chrt wht lt gry shrp frsh opaq, dec sho
dolo, calc in prt, lt off wht lt gry green tint, f vfxln blky dns hrd, silic in prt, chrty, chrt wht lt gry shrp frsh tr stain nodor, dec sho w/depth
dolo off wht tan green tint f vf xln dns hrd blky pcs, tr silic text, tr glau, tr lt tan stain, nodor,chrty in prt, chrt wht shrp frsh opaq
dolo off wht lt gry/grn tint f vf xln dns hrd blk ang pcs, tr glau, chrty in prt, chrt wht lt gry shrp frsh opaq
dolo tan bec lt gry gry f vfxln dns hrd gran, bec slty, 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 blky silty gritty gran silic text in prt, chrt lt gry shrp frsh opaq
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 opaq
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 opaq, tr gas bubs
lst wht off wht f sli med xln blk ang pcs, tr foss frags, foss ool, chrty in prt, chrt wht shrp frsh foss opaq
lst wht lt crm f sli med xln blky ang tr sub chlky, foss pelletal, tr ool/frags, chrty, chrt wht shrp frsh foss opaq
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 blky 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, blky ang
0
TG
100
add hulls
Mud-Co. 4608'
wt. 9.2 vis. 48
wl. 10 chl. 3,500
lcm. 4# bbl
wt. 9.1 vis. 50
lcm. 6# bbl
7 pm 4680'
Monday
Sept. 19, 2011
wt. 9.2 vis. 48
lcm. 7# bbl
wt. 9.2 vis. 48
lcm. 7# bbl
wt. 9.1 vis. 50
lcm. 7# bbl


ROP (min/ft)
Gamma (API)
0
10
150
Woodford
4830 (-3344)
Viola
4869 (-3383)
CFS 4890'
Bit Trip
4946'
Simpson Grp
4966 (-3480)
Wilcox Sd
4992 (-3506)
CFS 4998'
CFS 5005'
4800
4850
4900
4950
5000
pcs
shl drk gry blk, blk, platey, silty, gritty, blky ang pcs, tr gas bubs
shl gry drk gry, gry blk, silty, gritty, blky 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 blky 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 srtd, v/pyritic, mstly gry dolo shl w/snd grn inclu, tr gas bubs
dolo wht gry vf xln dns hrd, sli sucr text, lst 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 opaq foss frags
lst off wht lt gry mott, f sli med xln blky ang, sub chlky, tr foss frags, tr pyritic, inter xln por, chrty, chrt wht opaq frsh, dolo tan vf xln dns hrd, silic text, chrty, chrt dull tan shrp frsh foss
lst wht off wht gry mott f sli med xln, flky, blky sub chlky, tr foss frags, pyritic, inter xln por, chrty, dolo tan lt brn vf xln dns hrd, tr sucr text, chrty, tr foss frags, chrt dull tan shrp frsh blky
lst, dolo in prt, tan dull tan, f vflxln gran dns hrd blky, tr sucr text, chrty, chrt tan dull tan shrp frsh foss
lst dolo in prt, wht lt gry mott, f sli med xln blky ang flky sub chlky, tr foss, chrt wht shrp frsh, dolo tan lt brn f vf xln dns hrd blky tr sucr text, chrty, pyritic, chrt dull gry/tan shrp frsh foss
lst dolo in prt, crm tan lt dull brn vf xln dns hrd blky pcs, chrty, chrt dull tan gry shrp frsh opaq foss
lst dolo in prt, tan crm lt brn, tan brn mott, f vf xln gran sub chlky tr sucr text, chrty, much chrt, dull tan brn shrp frsh opaq
shl gry green, teal green, wxy grsy, silty, tr sst gry, dolomitic, f grnd sub ang grns, prly srtd, 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 grns, prly srtd, w/cem, dolomiitc, 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/srtd, prly cem, blky ang clstrs, prly to fair cem, min
0
TG
100
wt. 9.2 vis. 50
lcm. 7# bbl
CFS
7am 4890'
Tuesday
Sept. 20, 2011
wt. 9.2 vis. 52
lcm 7# bbl
Pull tired
Varrel HE-21
6 pm 4960'
Tuesday
Sept. 20, 2011
wt. 9.2 vis. 50
lcm 7# bbl
CFS
0
TG
100
CFS


-c-
McLish Shl
5026 (-3540)
-c-
RTD
5065 (-3579)
5050
00
fill, dolo fill, NS
sst clr lt tan clstrs, f grnd, sub rded grns, fairly srtd, pr to fair cem, silic cem, tr calc, sub fria, min fill, tr pyritic, mstly blky 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
wt. 9.2 vis. 52
lcm. 7# bbl
7 am 5065'
Wednesday
Sept. 21, 2011