



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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.): \_\_\_\_\_

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	DIEL D 3
Doc ID	1049870

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	52.75	42	grout	4	4 yds (not sx) grout
Surface	14.75	10.75	32.75	243	Class A	230	2% gel, 3% cc
Production	7.875	5.5	15.5	4947	60/40 poz	50	4% gel, 1/4# Celoflake
Production	7.875	5.5	15.5	4947	Class H	130	10% salt, 10% Gypseal, 6# Kolseal, 1/4# Celoflake, .8% fluid loss

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



phone: 316-337-6200  
fax: 316-337-6211  
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman  
Vice President, Conservation

Corporation Commission

Sam Brownback, Governor

January 25, 2011

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

Re: ACO1  
API 15-007-23597-00-00  
DIEL D 3  
NE/4 Sec.16-34S-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. 042229

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
*Medicine Lodge Ks*

DATE <i>10-8-2010</i>	SEC. <i>16</i>	TWP. <i>34S</i>	RANGE <i>11W</i>	CALLED OUT <i>12:00 pm</i>	ON LOCATION <i>12:30 pm</i>	JOB START <i>4:30 pm</i>	JOB FINISH <i>5:30 pm</i>
LEASE <i>Dee D</i>	WELL # <i>3</i>	LOCATION <i>Medicine Lodge Ks South</i>			COUNTY <i>Barber</i>	STATE <i>Ks</i>	
OLD OR NEW (Circle one)			<i>to Scott Canyon Rd, 3 E, South 11W</i>				

CONTRACTOR *H 2 # 3*  
 TYPE OF JOB *Production*  
 HOLE SIZE *7 7/8* T.D. *5200'*  
 CASING SIZE *5 7/8* DEPTH *4947'*  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT *41*  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT *117 bbls of Fresh water*

OWNER *Woolsey Operating*  
 CEMENT  
 AMOUNT ORDERED *75 sx 60' 40' 490 60'*  
*130sx Class # + 10% spill + 10% Exp*  
*6 # Koseal + 4 # Floseal + 8% FL 160*

EQUIPMENT  
 PUMP TRUCK CEMENTER *Derin F*  
 # *352* HELPER *Dave F, Matt T*  
 BULK TRUCK  
 # *381-290* DRIVER *Jason T*  
 BULK TRUCK  
 # DRIVER *Tom B*

COMMON <i>A</i>	<i>45 sx</i>	@ <i>15.45</i>	<i>695.25</i>
POZMIX	<i>30 sx</i>	@ <i>8.00</i>	<i>240.00</i>
GEL	<i>3 sx</i>	@ <i>20.80</i>	<i>62.40</i>
CHLORIDE		@	
ASC	<i>Kolyal 780#</i>	@ <i>.89</i>	<i>694.20</i>
	<i>H 130 sx</i>	@ <i>16.75</i>	<i>2177.50</i>
	<i>Bypseal 13 sx</i>	@ <i>29.20</i>	<i>379.60</i>
	<i>Half 14 sx</i>	@ <i>12.00</i>	<i>168.00</i>
	<i>Floseal 32.5#</i>	@ <i>2.50</i>	<i>81.25</i>
	<i>FL-160 97.76</i>	@ <i>13.30</i>	<i>1300.20</i>
	<i>Clapro 12 Gals</i>	@ <i>31.25</i>	<i>375.00</i>
		@	
		@	
HANDLING	<i>242</i>	@ <i>2.40</i>	<i>580.80</i>
MILEAGE	<i>242.70/15</i>		<i>363.00</i>

REMARKS:

*Pipe on bottom & back circulation*  
*mix 35sx for Paramaseals, mix 50sx*  
*of seawater cement, mix 130sx of oil*  
*Cement, shut down, wash pump & lines*  
*Release plug, start displacement, lift pressure*  
*at 75 bbls, slow rate to 3 bpm ca*  
*110 bbls, Bump plug ca 117 bbls*  
*800-1500 PSI, float did hold*

Regulatory Correspondence  
 Orig/Comp Workovers  
 Tests / Meters Operations

TOTAL *2177.20*

SERVICE

DEPTH OF JOB *4947'*  
 PUMP TRUCK CHARGE *2185.00*  
 EXTRA FOOTAGE @  
 MILEAGE *15* @ *7.00* *105.00*  
 MANIFOLD @  
*Hes rental* @

CHARGE TO: *Woolsey Operating*  
 STREET  
 CITY STATE ZIP

TOTAL *2290.00*

PLUG & FLOAT EQUIPMENT

*5 1/2*  
 1-AFU Float shoe @ *214.20*  
 1-latch Down plug @ *163.80*  
 12-Turbolizers @ *40.60* *487.20*  
 18-Scrapers @ *23.94* *430.92*

TOTAL *1296.12*

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  
 DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME *X MIKE THARP*

SIGNATURE *X Mike Tharp*

*Thank you!!!*

# ALLIED CEMENTING CO., LLC. 042215

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
*Medicine Lodge KS*

DATE <i>092810</i>	SEC. <i>16</i>	TWP. <i>34s</i>	RANGE <i>11w</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Diel/D</i>	WELL # <i>3</i>	LOCATION <i>201 &amp; <del>Pa</del> Scott Canyon Rd,</i>			COUNTY <i>Barber</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)		<i>3E, S &amp; w into</i>					

CONTRACTOR *H-2*

TYPE OF JOB *Surface*

HOLE SIZE *14 3/4* T.D. *246*

CASING SIZE *10 3/4* DEPTH *241*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX *250* MINIMUM *-*

MEAS. LINE SHOE JOINT *N/A*

CEMENT LEFT IN CSG. *20'*

PERFS.

DISPLACEMENT *2 1/4 Bbls Fresh H<sub>2</sub>O*

**EQUIPMENT**

PUMP TRUCK CEMENTER *D. Felio*

# *360-265* HELPER *M. Thimesch*

BULK TRUCK

# *364* DRIVER *R. Gilley*

BULK TRUCK

# DRIVER

OWNER *Woolsey*

CEMENT

AMOUNT ORDERED *230sx class "A" + 3% cc + 2% gel*

COMMON	<i>A 230 sx @ 15.45</i>	<i>3553.50</i>
POZMIX	@	
GEL	<i>5 @ 20.80</i>	<i>104.00</i>
CHLORIDE	<i>8 @ 58.20</i>	<i>465.60</i>
ASC	@	

**WELL FILL**

Regulatory Correspondence @

Drill Comp Workover @

Tests / Motors Operations @

Handling *243 @ 2.40 583.20*

Mileage *243 / 10 / 15 364.50*

TOTAL *5070.80*

**REMARKS:**

*Pipe on Bttm, Break Circ., Pump & 3 Bbls Fresh H<sub>2</sub>O Spacer, Mix 230sx "A" 3% cement = 55 Bbls Slurry, Start Disp. w/ Fresh H<sub>2</sub>O, Wash up truck & lines, See Steady increase in PSI. Slow Rate at 15 Bbls, Stop Pump at 2 1/4 Bbls total Disp., Shut in, Cement Did Circ.*

**SERVICE**

DEPTH OF JOB *241*

PUMP TRUCK CHARGE *1018.00*

EXTRA FOOTAGE @

MILEAGE *15 @ 7.00 105.00*

MANIFOLD *N/A @*

CHARGE TO: *Woolsey Oper.*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL *1123.00*

**PLUG & FLOAT EQUIPMENT**

*None*

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

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.

PRINTED NAME *Scott Alberg*

SIGNATURE *[Signature]*

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES *[Crossed out]*

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

*[Crossed out]*



**Woolsey Operating Company, LLC**

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

Measured Depth Log

Well Name: Diel #D 3

Location: NW SE SE NE

License Number: API: 15-007-23597-00-00

Spud Date: September 27, 2010

Region: Barber County, Kansas

Drilling Completed: October 7, 2010

Surface Coordinates: 2100' FNL, 365' FEL Section 16-Twp 34 South - Rge 11 West  
Field Schupach Southwest

Bottom Hole Coordinates: Vertical Hole

Ground Elevation (ft): 1331'

K.B. Elevation (ft): 1340'

Logged Interval (ft): 3600 To: 5190 Total Depth (ft): 5190

Formation: McLish Sand

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

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://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	4327 (-2987)	4334 (-2994)
B/KC	4378 (-3038)	4384 (-3044)
PAWNEE	4470 (-3130)	4481 (-3141)
CHEROKEE GROUP	4522 (-3182)	4528 (-3188)
CHEROKEE SAND	4549 (-3209)	4555 (-3215)
MISSISSIPPIAN	4564 (-3224)	4570 (-3230)
COWLEY C2 A	4575 (-4335)	4588 (-3248)
COMPTON LIMESTONE	4754 (-3414)	4762 (-3422)
KINDERHOOK SHALE	4762 (-3422)	4769 (-3429)
WOODFORD SHALE	4845 (-3505)	4854 (-3514)
MAQUOKETA	4872 (-3532)	4882 (-3542)
VIOLA	4900 (-3570)	4909 (-3579)
SIMPSON GROUP	4992 (-3652)	5000 (-3660)
SIMPSON WILCOX	5011 (-3671)	5018 (-3688)
MCLISH SHALE	5062 (-3722)	5073 (-3733)
MCLISH SAND	5152 (-3812)	5259 (-3819)
RTD	5190 (-3850)	
LTD		5200 (-3860)

Sample tops are approximately 7 to 10' shallow to log tops. LTD was 10' deeper than RTD.

### COMMENTS

Surface Casing: Set 6 joints 10 3/4" at 242' (tally 230') with 230 sxs Class A, 2% gel, 3% cc, plug down at 5:00 am on September 28, 2010. Cement did Circulate.

Production Casing: Run 5 1/2 Casing

Deviation Surveys: 246' 3/4, 773' 1, 1313' 1, 1854' 1, 2329' 1, 2836' 1, 3343' missrun, 3343' 1/2, 3343 3/4, 3852' 1 1/4, 4392' 1 3/4, 4555 1 1/4, 5190 3/4

Contractor Bit Record: 1- 14 3/4" out at 246'

2- 7 7/8" out at 5190'.

Gas Detector: Woolsey Operating Company, Trailer #2

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: No DST's ran.

### CREWS

H2 Drilling Rig #3


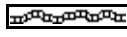
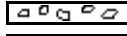
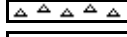


Tool Pusher - James Schultz







Drillers - Mark Staats


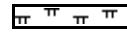




Gary Axtell






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  
 Shyslst  
 Sltlysh



## 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

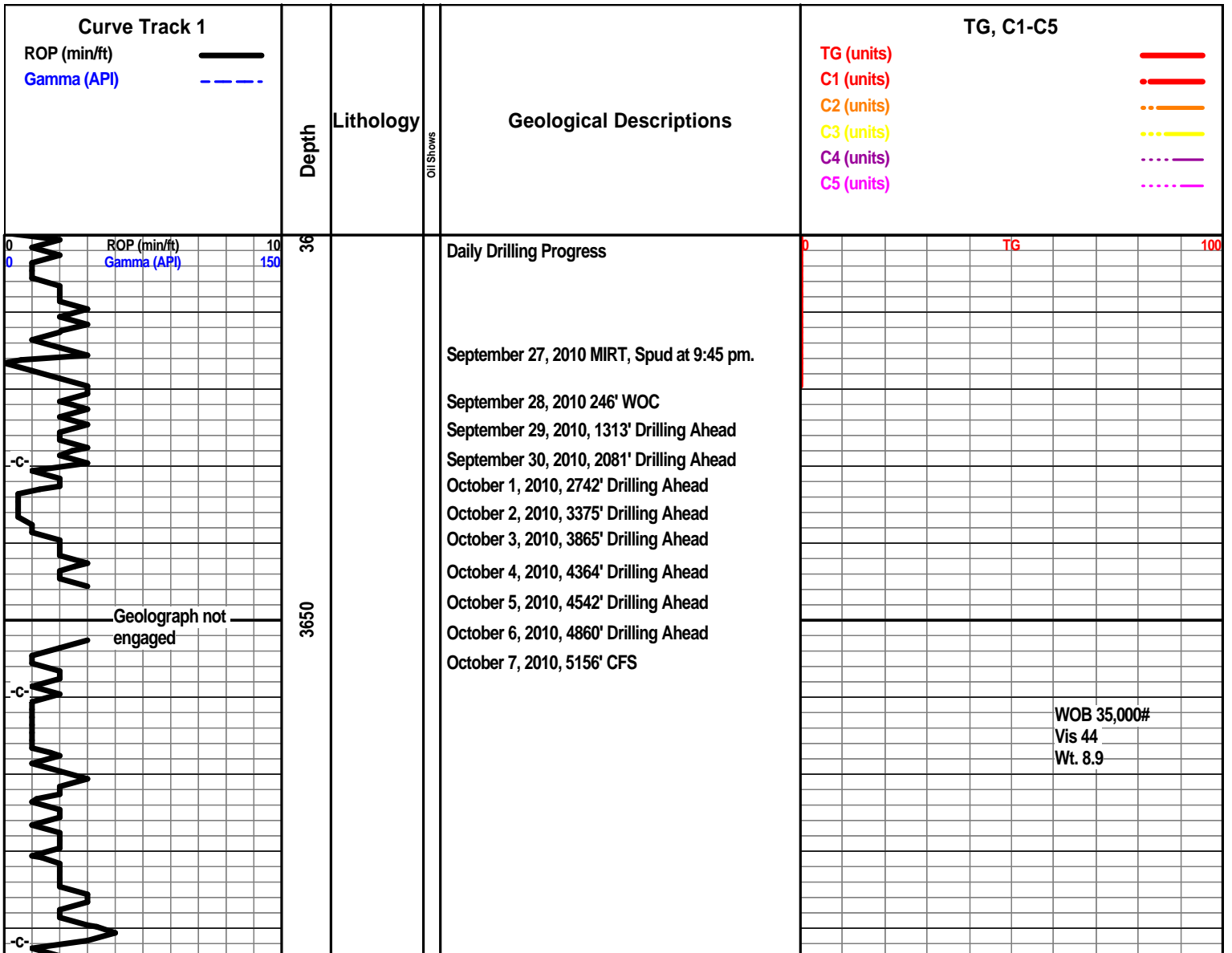
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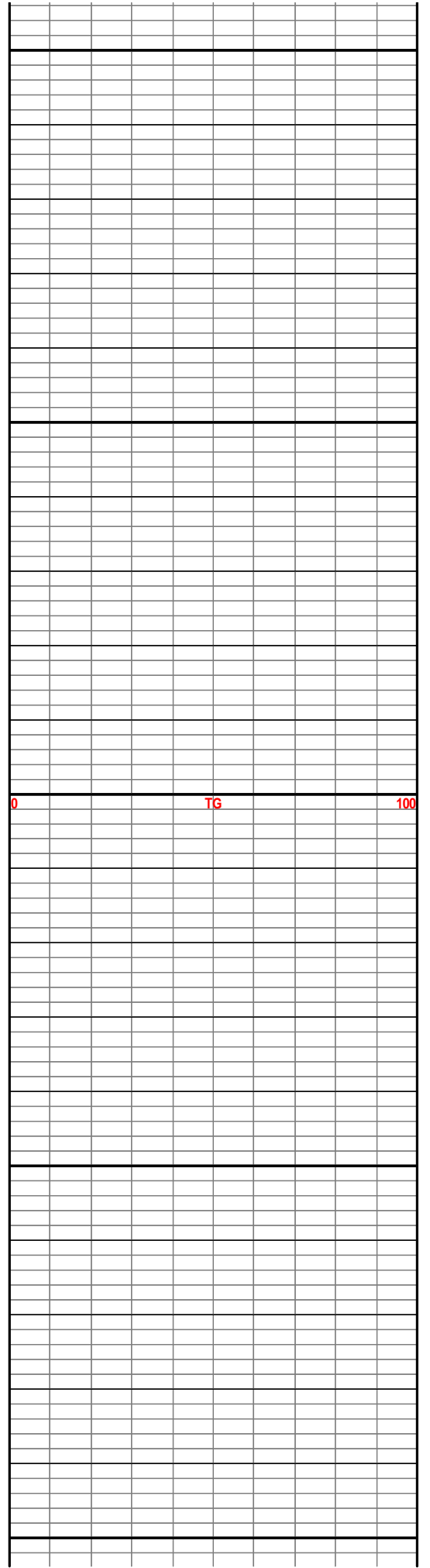
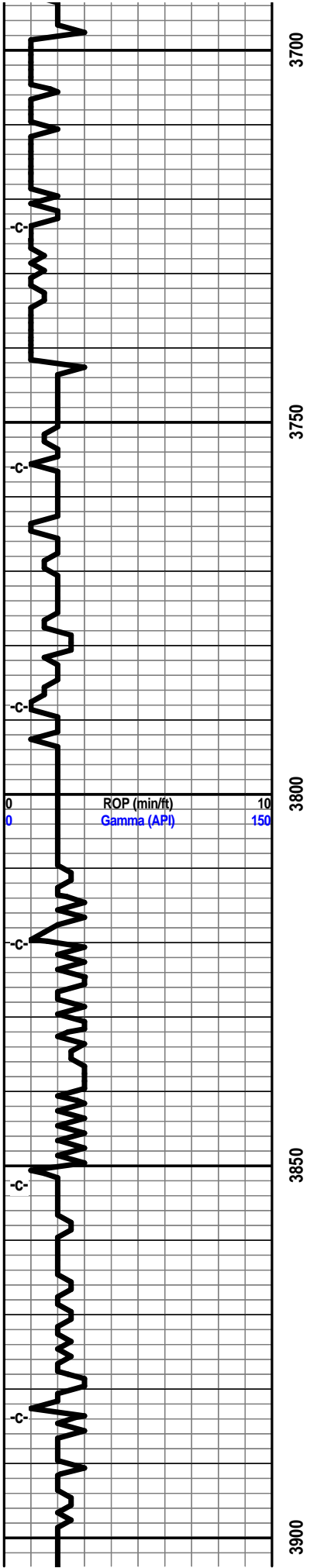
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slststrg
- Ssstrg
- Carbsh
- Clystn
- Dol

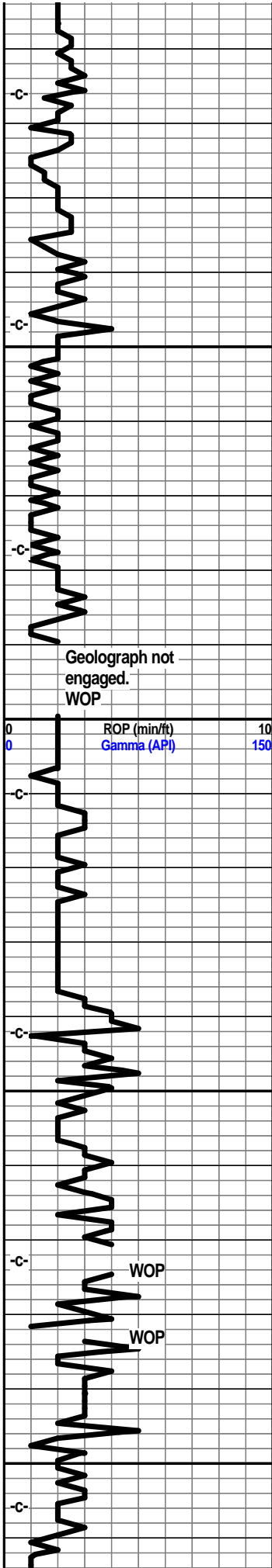
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Slststn

### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest





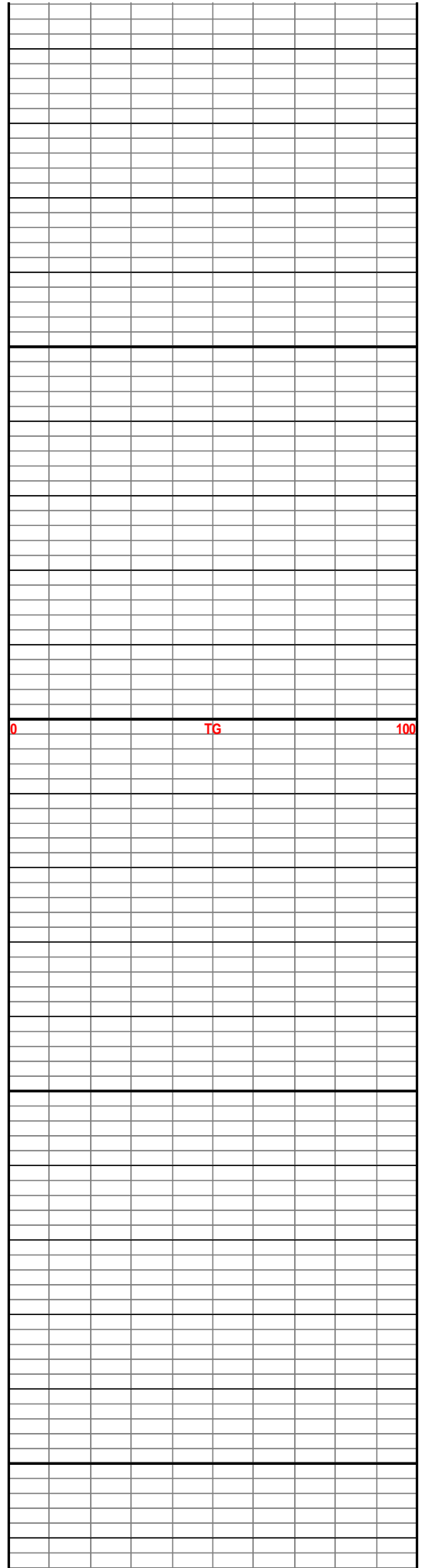


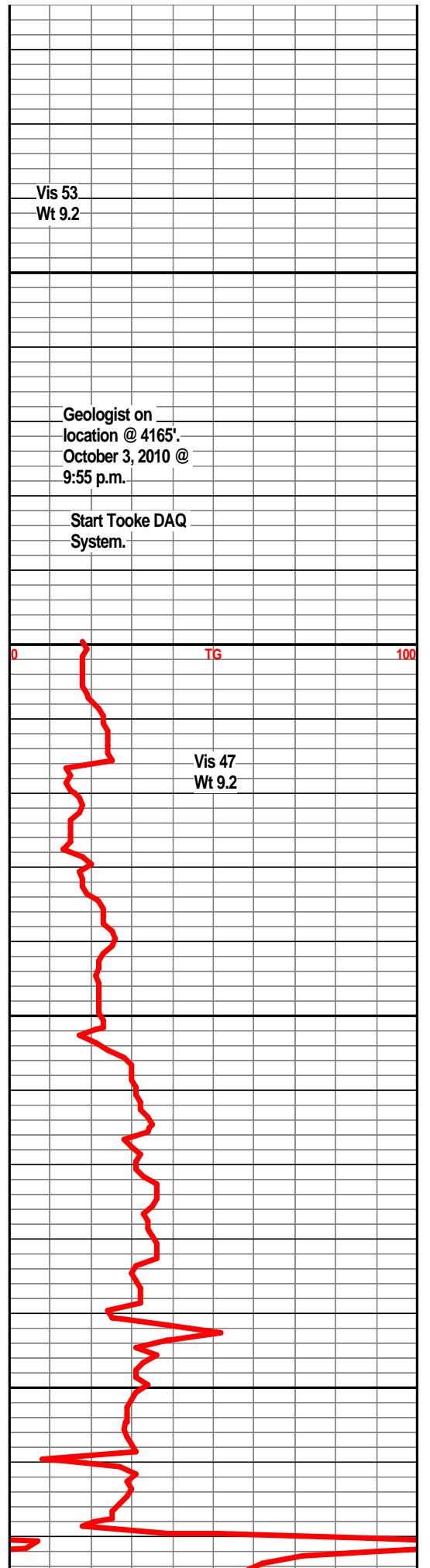
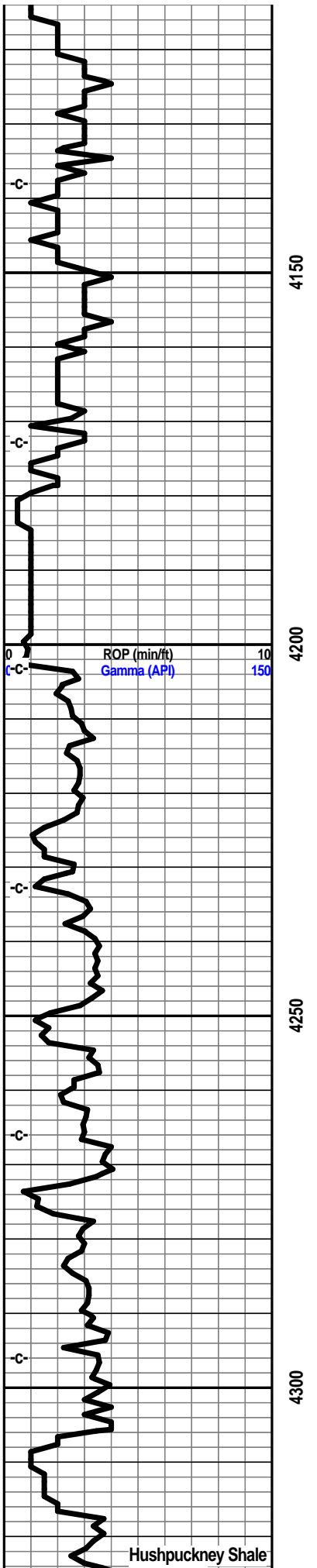
3950

4000

4050

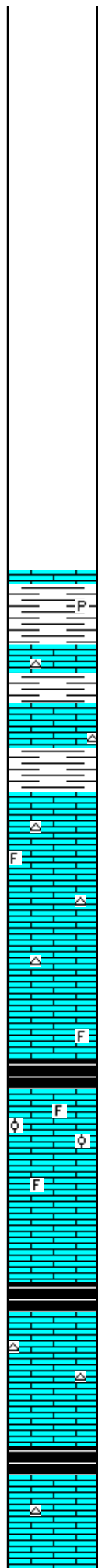
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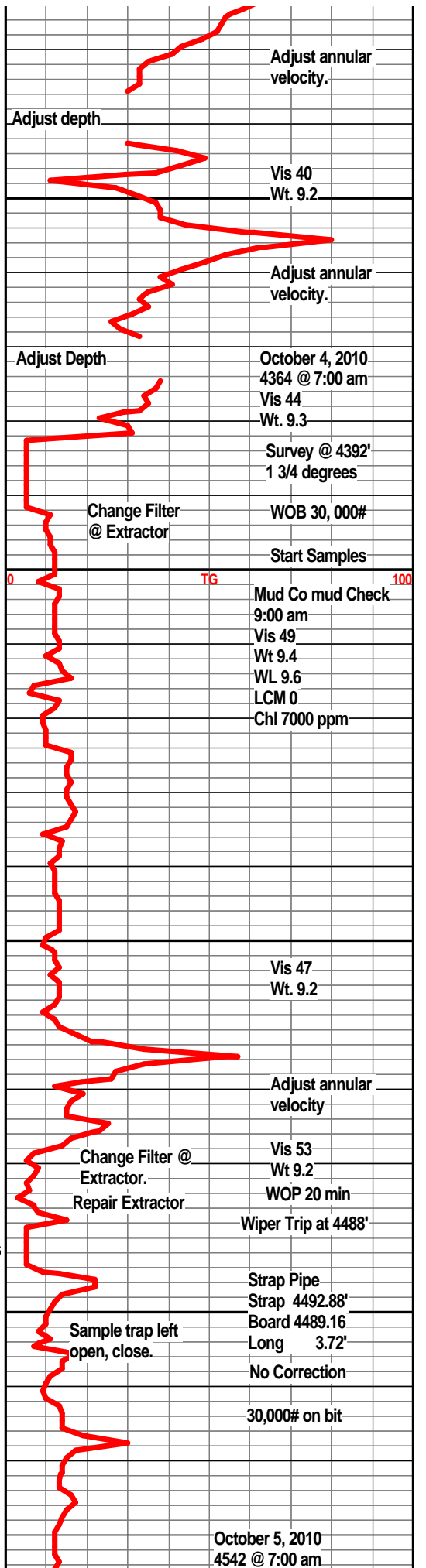


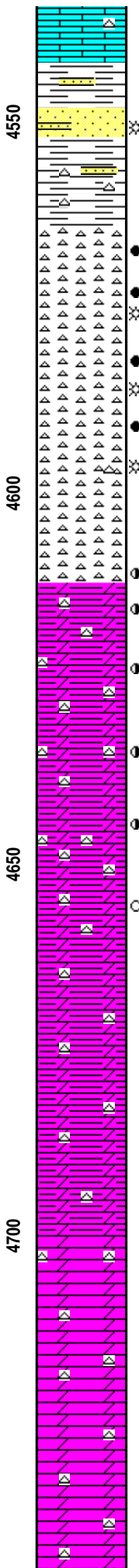
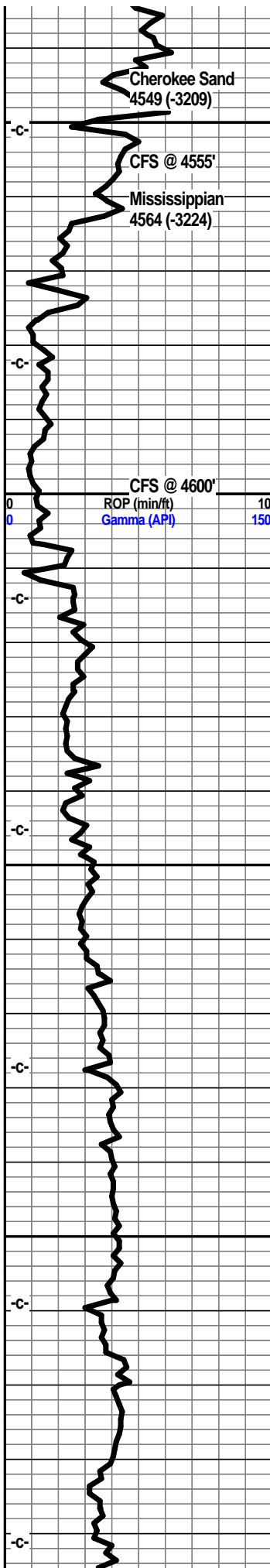


4350  
4400  
4450  
4500



Limestone, tan, cream-white, fxln, dense, trace foss frags.  
Shale, grey-green, trace pyrite.  
Limestone, cream, green-white, fxln, dense, trace of chert.  
Shale, lt grey-green.  
Limestone, tan, tan-white, fxln traces of tan chert.  
Shale, grey.  
Limestone, cream-white to tan, fxln, slightly foss, dense, slightly chalky, traces of chert.  
Limestone, cream-white to tan, fxln, dense, trace of foss frags, trace of tan chert.  
Limestone, cream-white, fxln, dense, cherty in part.  
Shale, grey-black, slightly carb, slight show of gas bubbles.  
Limestone, cream-white to off-white, some tan, fxln, slightly chaky, oolitic in part, traces of foss frags, very faint show of gas bubbles, very poor show light oil, some mineral fluor, no odor.  
Limestone, cream, tan-white, fxln, dense, trace of foss frags, some scattered xln porosity, traces of tan chert.  
Shale, grey-black.  
Limestone, cream, tan, fxln, sub chalky, slightly foss, cherty in part.  
Shale, grey-black  
Limestone, cream-white, fxln, subchalky, traces of scattered chert.





Shale, grey, few sst stringers.

Sst, grey, some light brown cluster, well cemented, v. fine grained, SA, silty, traces of dark staining, v. slight show of gas bubbles, no odor, no fluor, v few pieces friable.

Shale, grey-green, trace of chert.

Chert, white, off-white, sharp, fresh, slightly weathered in part, some light staining along edges, v. faint show of oil, very faint odor, dull fluor.

Chert, white to off-white, fresh, sharp, some translucent, weathered in part, few scattered vugs, light brown staining, some edge staining, dull fluor, slight show of oil.

Chert, white, off-white, some translucent, weatered, sharp, light brown staining, few scattered vugs, trace of free oil in tray, slight show gas bubbles, v faint odor.

Dolo, cream, tan, xln, cherty, fresh, sharp, slight light brown staining, trace show of oil, no odor, abundant grey, dk grey shales, firm, splintery.

Dolo, lt grey, cream-tan, xln, very cherty, weathered, light brown staining, some with pin point porosity, faint show of oil, no odor, shaley, grey, dk grey shales.

Dolo, grey, dk grey, some cherts with weathering, light staining, no odor, dark grey blk shales.

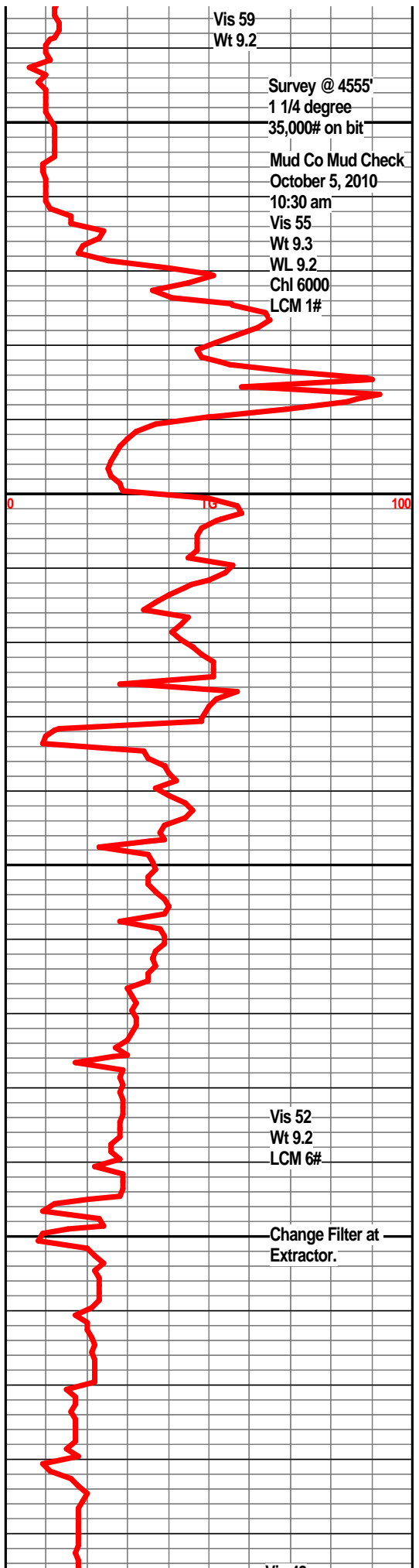
Dolo, cream to grey white, some darker grey, xln, cherty, sharp, weathered, light brown staining, decreasing amounts of staining, grey to dk grey shales.

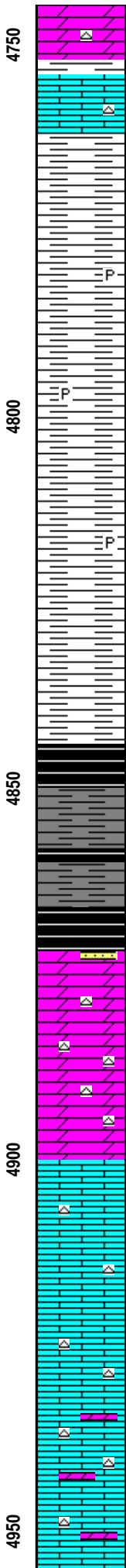
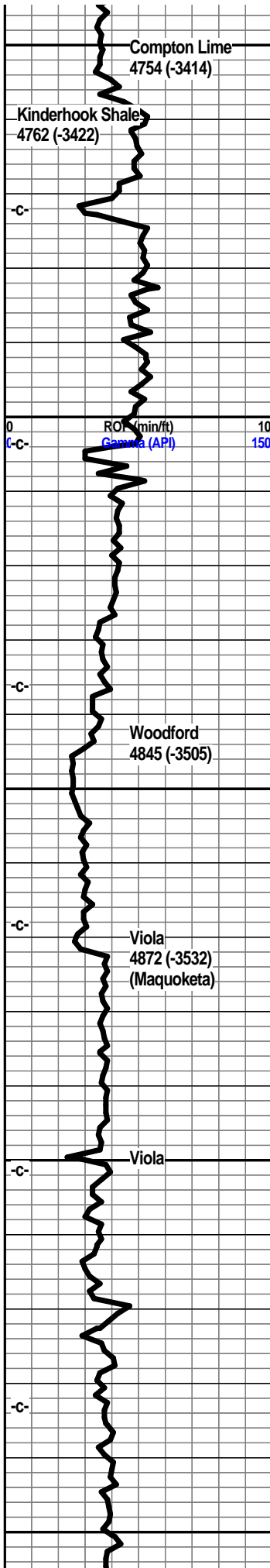
Dolo, grey-white, xln, cherty, fresh, sharp, some weathered, light staining, dk grey to grey shales.

Dolo, grey to cream, xln, cherty in part, grey to dk grey shales.

Dolo, lt grey to grey, some cream, xln, cherty, slightly shaley in part.

Dolo, grey, light grey, xln, cherty, traces of lt





grey shale.

Limestone, cream-white, fxl, foss fragments, slightly cherty.

Shale, dk grey, grey, silty, firm.

Shale, dk grey to grey, trace pyrite.

Shale, dk grey to grey.

Shale, grey, lt grey, silty.

Shale, grey, coffee brown, trace pyrite.

Shale, grey-black, brown, carb in part.

Shale, grey, dk grey, sl. carb

Shale, dk grey-black, coffee brown, show of bleeding gas.

Dolo, light grey to off-white, xln, silty, arg, trace of chert, slight trace of sst, tite clusters, SA, no visible shows, silty.

Dolo, grey, light grey, xln, silty, arg, trace of chert.

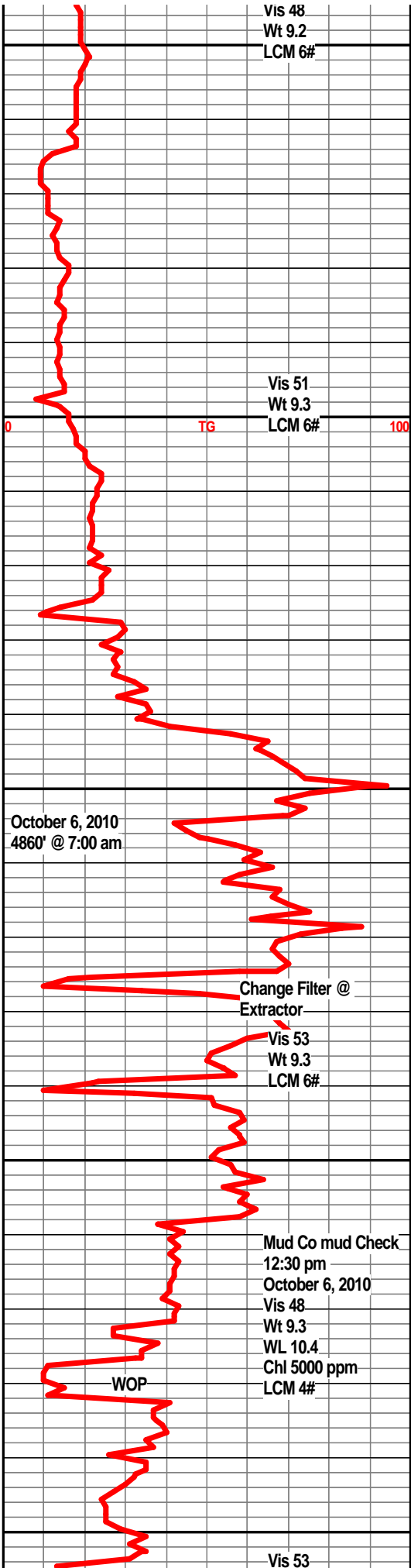
Limestone, white to off-white, xln, subchalky, trace foss frags, cherty.

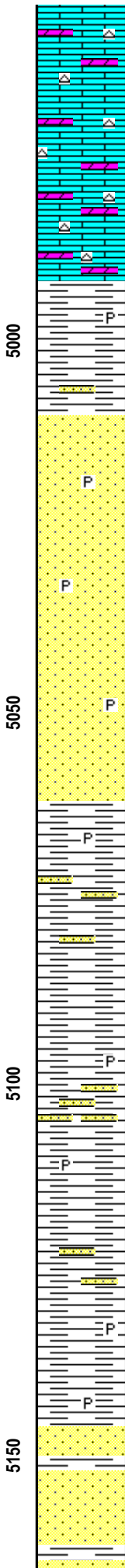
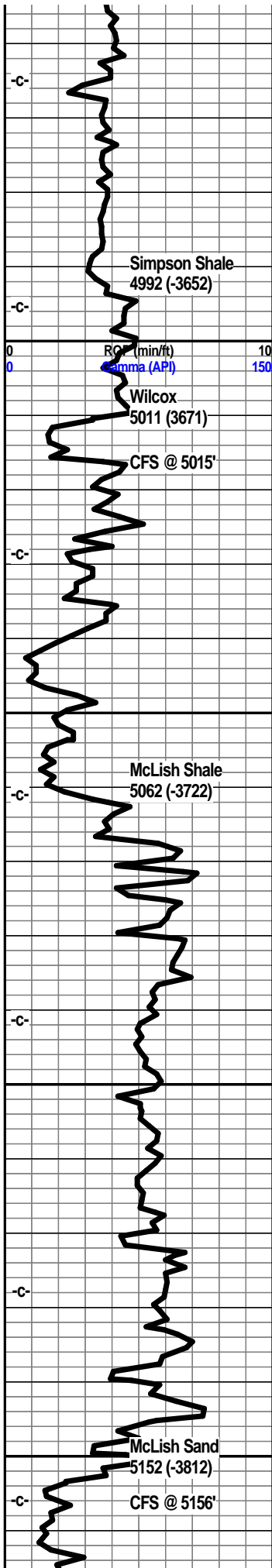
Limestone, white, off-white some tan, xln, chert in part, some chaky ls.

Limestone, tan, tan-brown, xln, dense, traces of tan-brown cherts, sharp.

Limestone, tan, slightly dolo, xln, cherty.

Limestone, tan, off-white, dolo, cherty, xln.





Limestone, tan, tan-white, xln, dolo, cherty.

Limestone, tan, tan-white, xln, cherty, traces of pyrite.

Shale, pale green to apple green, firm, waxey, traces of pyrite.

Shale a/a, traces of tite sand clusters.

Sst, clear to grey-white, SR to SA quartz grains, upper portion very well cemented becoming more friable with depth, slight show few oil droplets, some pyrite, no odor, no fluor., possible 3-4 unit increase in gas background.

Sst, clear to light grey frosted qtz grains, SA to SR, friable in part, some very well cemented, tite, glauc, some mica, traces of pyrite, some small shale inclusions, no odor, no fluor., some possible very light staining.

Sst, a/a, friable, SR fair sorting, no visible shows.

Shale, green, pale green, waxey.

Shale, green, apple green, firm, embedded sand grains, some sand stringers.

Shale, grey-green, firm, traces of pyrite, some sand inclusions.

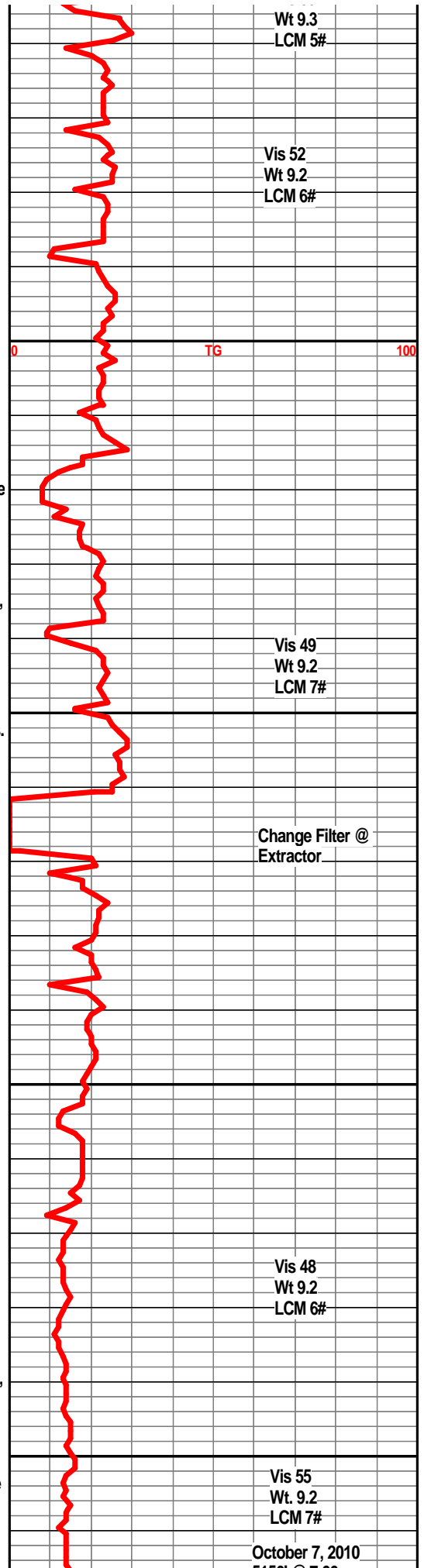
Shale, grey-green, firm, pyritic in part, scattered sand stringers.

Shale a/a

Shale, green, firm, waxey, some sand inclusions, trace pyrite.

Sst, grey to light grey-white, tite, dirty, well cemented, glauc, traces of pyrite.

Sst, clear to white frosted, SR, fair sorting, some glauc, friable in part, no visible shows, no odor, traces of pyrite.



Wt 9.3  
LCM 5#

Vis 52  
Wt 9.2  
LCM 6#

Vis 49  
Wt 9.2  
LCM 7#

Change Filter @  
Extractor.

Vis 48  
Wt 9.2  
LCM 8#

Vis 55  
Wt 9.2  
LCM 7#

October 7, 2010



Sst., clear to white, some lt grey frosted, well cemented, glauc., traces of pyrite, some interbedded shales.

Sst. clear to white, some light brown clusters, well cemented, fair sorting, friable in part, glauc, pyrite. no odor. no fluor.

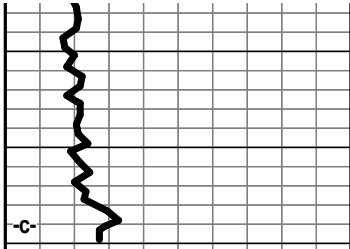
Shale, green, dk green.

5156' @ 7:00 am

Mud Co Mud Check  
October 7, 2010  
11:00 am  
Vis 48  
Wt 9.3  
WL 9.2  
Chl 4000 ppm  
LCM 6#

Survey @ 5190 3/4 degree.

RTD at 9:15 am  
October 7, 2010



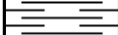
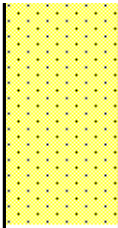
RTD 5190'  
LTD 5200'

ROP (min/ft) 10  
Gamma (API) 150

5200

5250

00



TG

100