



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1071118
OIL & GAS CONSERVATION DIVISION

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 # _____

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
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1071118

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <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 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	FORESTER F 1
Doc ID	1071118

Tops

Name	Top	Datum
CHASE	1794	-321
ONAGA	2640	-1167
KANWAKA	3444	-1971
DOUGLAS	3672	-2199
LANSING A	3832	-2359
PAWNEE	4465	-2992
MISSISSIPPIAN	4519	-3046
SIMPSON	4940	-3467

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/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

December 30, 2011

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

Re: ACO1
API 15-007-23759-00-00
FORESTER F 1
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. 040254

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
med. circ lease ks

DATE <i>9-3-2011</i>	SEC. <i>26</i>	TWP. <i>33S</i>	RANGE <i>11W</i>	CALLED OUT <i>7:00 pm</i>	ON LOCATION <i>8:00 pm</i>	JOB START <i>9:00 pm</i>	JOB FINISH <i>9:30 pm</i>
LEASE <i>Foraker F</i>	WELL # <i>1</i>	LOCATION <i>281 & Garlin Rd, 3 ess 2</i>			COUNTY <i>Berber</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)			<i>South into</i>				

CONTRACTOR *H2 #3*

TYPE OF JOB *Surface*

HOLE SIZE *14 3/4* T.D. *225*

CASING SIZE *10 3/4* DEPTH *209'*

TUBING SIZE *8 5/8 L.J.* DEPTH *13'*

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *20'*

PERFS.

DISPLACEMENT *20 bbls of freshwater*

OWNER *Woolsey Operating*

CEMENT

AMOUNT ORDERED *2405y class B*
3% gel + 2% gel

COMMON <i>Class B 2405y</i>	@ <i>16.25</i>	<i>3900.00</i>
POZMIX	@	
GEL <i>58x</i>	@ <i>21.25</i>	<i>106.25</i>
CHLORIDE <i>96x</i>	@ <i>58.20</i>	<i>523.80</i>
ASC	@	

EQUIPMENT

PUMP TRUCK CEMENTER *Darin E.*

360-265 HELPER *Jason T.*

BULK TRUCK

364 DRIVER *Dustin*

BULK TRUCK

DRIVER

WELL FILE

Regulatory Correspondence	@	
Drig / Comp	@	
Tests / Meters	@	
Worcovers	@	
Operations	@	
	@	
	@	
	@	
HANDLING <i>254</i>	@ <i>2.25</i>	<i>571.50</i>
MILEAGE <i>254/1.11/20</i>		<i>558.80</i>
		TOTAL <i>566.35</i>

REMARKS:

*Pipe on bottom & break circulation
pump 3 bbls water ahead, mix 2405y
of cement, displace 20 bbls of
fresh water, shut in, cement did
circulate*

CHARGE TO: *Woolsey Operating*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <i>222'</i>		
PUMP TRUCK CHARGE		<i>1125.00</i>
EXTRA FOOTAGE	@	
MILEAGE <i>40</i>	@ <i>7.00</i>	<i>280.00</i>
MANIFOLD <i>Swedge & Uslive</i>	@	
<i>Light beh. etc 40</i>	@ <i>4.00</i>	<i>160.00</i>
	@	
		TOTAL <i>1565.00</i>

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.

PLUG & FLOAT EQUIPMENT

<i>none</i>	@	
	@	
	@	
	@	
	@	
		TOTAL _____

PRINTED NAME *X MIKE THARP*

SIGNATURE *X Mike Tharp*

Thank you!!!

SALES TAX (If Any) _____

TOTAL CHARGES *7225.35*

DISCOUNT _____ IF PAID IN 30 DAYS

Net \$ 5780.28

ALLIED CEMENTING CO., LLC. 040258

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge Ks

DATE <u>9-11-2011</u>	SEC <u>26</u>	TWP <u>33S</u>	RANGE <u>11W</u>	CALLED OUT <u>1:00 pm</u>	ON LOCATION <u>6:00 pm</u>	JOB START <u>10:00 pm</u>	JOB FINISH <u>11:00 pm</u>
Forester LEASE <u>F</u>	WELL# <u>1</u>	LOCATION <u>281 & Green Rd 3 1/2 ess</u>		COUNTY <u>Barber</u>	STATE <u>Ks</u>		
OLD OR NEW (Circle one) <u>NEW</u>			<u>S/h + 0</u>				

CONTRACTOR H2 #3
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5045'
 CASING SIZE 5 1/2 IS 5# DEPTH 5923'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 45'
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 110 bbls of 2% KCL water

OWNER Woolsey Operating

CEMENT
 AMOUNT ORDERED 1005.00 C155 H + 10% Gyp + 10% SS1 + 6% Kolses + 8% FL/LO
1/4 # Floscal, 755 = 60:40:4% 6c1

EQUIPMENT

PUMP TRUCK CEMENTER Darin F
 # 414-302 HELPER Jason T.
 BULK TRUCK
 # 364 DRIVER Adam m.
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>A 45 sx</u>	@	<u>16.28</u>	<u>731.25</u>
POZMIX	<u>30 sx</u>	@	<u>8.50</u>	<u>255.00</u>
GEL	<u>3 sx</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE		@		
ASC		@		
H	<u>100 sx</u>	@	<u>22.15</u>	<u>2215.00</u>
Gypscat	<u>10 sx</u>	@	<u>34.20</u>	<u>1034.20</u>
Salt	<u>11 sx</u>	@	<u>12.00</u>	<u>132.00</u>
Kolscal	<u>600 #</u>	@	<u>.89</u>	<u>534.00</u>
FL-160	<u>75 #</u>	@	<u>17.20</u>	<u>1290.00</u>
Floscal	<u>25 #</u>	@	<u>2.70</u>	<u>67.50</u>
Clapco	<u>12 Ects</u>	@	<u>31.25</u>	<u>375.00</u>
		@		
HANDLING	<u>23</u>	@	<u>2.25</u>	<u>47.25</u>
MILEAGE	<u>11/15/213</u>			<u>351.45</u>
TOTAL				<u>7528.40</u>

REMARKS:

Pipe on bottom break circulation, mix 255# for rest hole, mix 505# of 505# cement, mix 1005# of 100# cement, shut down, wash pump lines, Release plug 90 bbls, slow rate to 30pm 9+105 bbls, bump plug 9+116 bbls 200-1400 ps, float did hold

SERVICE

DEPTH OF JOB	<u>51923</u>		
PUMP TRUCK CHARGE	<u>2405.00</u>		
EXTRA FOOTAGE	@		
MILEAGE	<u>30</u>	@	<u>7.00</u> <u>210.00</u>
MANIFOLD Hosa rental	@		<u>200.00</u>
light vehicle	<u>30</u>	@	<u>4.00</u> <u>120.00</u>
		@	

CHARGE TO: Woolsey Operating

STREET _____
 CITY WELL FILE STATE _____ ZIP _____

OCT 21 2011

TOTAL 2935.00

Regulatory Correspondence
 Drig / Comp Workovers
 Tests / Meters Operations

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.

PLUG & FLOAT EQUIPMENT

<u>5%</u>			
1-BFU Float shoe	@		<u>349.00</u>
1-25 ton Down Plug	@		<u>277.00</u>
9-Turbolizers	@	<u>80.00</u>	<u>720.00</u>
20-Searchers	@	<u>76.00</u>	<u>1520.00</u>
	@		

TOTAL 2866.00

PRINTED NAME X MIKE THARP

SIGNATURE X Mike Tharp

Thank you!!!

SALES TAX (If Any) _____
 TOTAL CHARGES 13,329.40
 DISCOUNT 20% IF PAID IN 30 DAYS
Net 10,663.52



DRILL STEM TEST REPORT

Woolsey Operating Company L.L.C

Forester F #1

125 N Market STE 1000 Wichita KS 67202+1729

26-33s-11w Barber

ATTN: Scott Alberg

Job Ticket: 18632

DST#: 1

Test Start: 2011.09.09 @ 05:53:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:52:00

Time Test Ended: 15:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-110

Interval: 4485.00 ft (KB) To 4548.00 ft (KB) (TVD)

Reference Elevations: 1473.00 ft (KB)

Total Depth: 4548.00 ft (KB) (TVD)

1464.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8419

Inside

Press @ Run Depth: 95.64 psia @ 4544.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.09.09

End Date:

2011.09.09

Last Calib.:

2011.09.09

Start Time:

05:53:00

End Time:

15:39:30

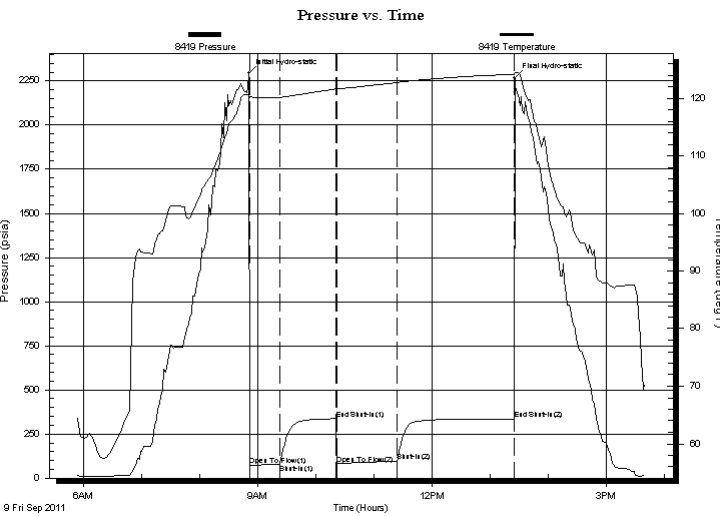
Time On Btm:

2011.09.09 @ 08:51:00

Time Off Btm:

2011.09.09 @ 13:25:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 11 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 1 minutes
 2nd Shut-in 120 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2293.94	120.55	Initial Hydro-static
1	75.64	120.28	Open To Flow (1)
32	80.06	120.14	Shut-In(1)
90	336.70	121.60	End Shut-In(1)
91	78.97	121.56	Open To Flow (2)
153	95.64	122.70	Shut-In(2)
274	335.66	124.16	End Shut-In(2)
275	2268.58	124.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud	0.44

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company L.L.C

Forester F #1

125 N Market STE 1000 Wichita KS 67202+1729

26-33s-11w Barber

Job Ticket: 18632

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.09.09 @ 05:53:00

Tool Information

Drill Pipe:	Length: 4183.00 ft	Diameter: 3.80 inches	Volume: 58.68 bbl	Tool Weight:	1000.00 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: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose:	67000.00 lb
			<u>Total Volume: 60.16 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4485.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	63.00 ft				
Tool Length:	91.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4462.00	
Hydraulic Tool	5.00			4467.00	
Jars	6.00			4473.00	
Safety Joint	2.00			4475.00	
Packer	5.00			4480.00	28.00 Bottom Of Top Packer
Packer	5.00			4485.00	
Anchor	0.00			4485.00	
Change Over Sub	0.75			4485.75	
Drill Pipe	31.50		Outside	4517.25	
Change Over Sub	0.75		Outside	4518.00	
Anchor	25.00			4543.00	
Recorder	1.00	8419	Inside	4544.00	
Recorder	1.00	8524	Outside	4545.00	
Bullnose	3.00			4548.00	63.00 Bottom Packers & Anchor

Total Tool Length: 91.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company L.L.C

Forester F #1

125 N Market STE 1000 Wichita KS 67202+1729

26-33s-11w Barber

Job Ticket: 18632

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.09.09 @ 05:53:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mud	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

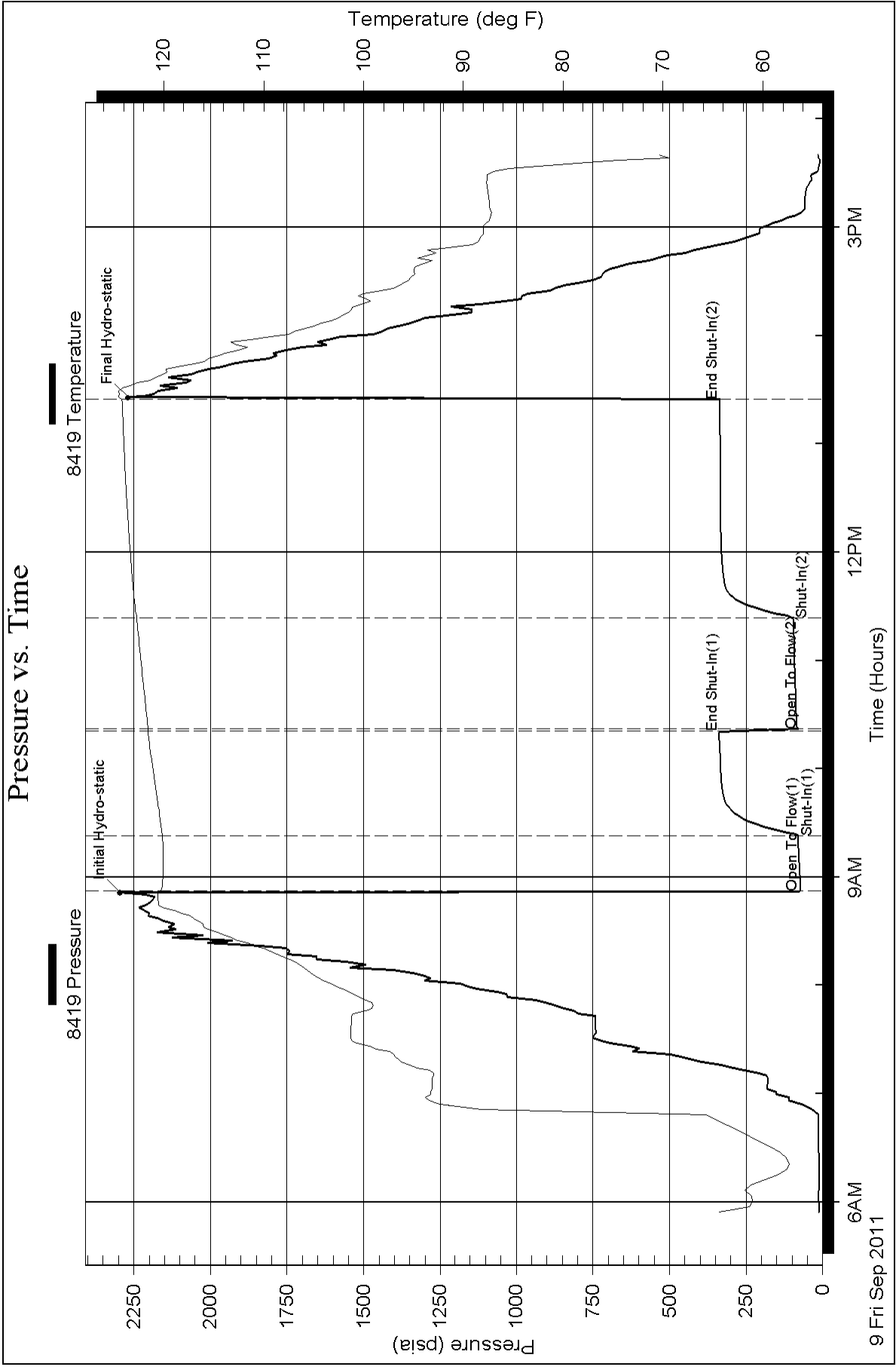
Serial #: 8419

Inside

Woolsey Operating Company L.L.C

26-33s-11w Barber

DST Test Number: 1





Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Forester F-1
Location: NW NW NW
License Number: API: 15-007-23759-00-00
Spud Date: September 3, 2011
Surface Coordinates: 330' FNL, 330' FWL Section 26-Twp 33 South - Rge 11 West
Roundup South Pool
Bottom Hole Coordinates: Vertical Hole
Ground Elevation (ft): 1464
Logged Interval (ft): 4000 To: 5045
Formation: McLish Shale
Type of Drilling Fluid: Chemical Mud, Displace at 3390'

Region: Barber County, Kansas

Drilling Completed: September 11, 2011

K.B. Elevation (ft): 1473

Total Depth (ft): 5045

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
STARK SHALE	4299(-2826)	4293(-2820)
HUSHPUCKNEY SHALE	4328(-2855)	4323(-2850)
B/KC	4384(-2911)	4379(-2906)
PAWNEE	4467(-2994)	4465(-2992)
MISSISSIPPIAN	4524(-3051)	4520(-3047)
KINDERHOOK SHALE	4733(-3260)	4734(-3261)
WOODFORD SHALE	4817(-3344)	4813(-3340)
VIOLA	4857(-3384)	4853(-3380)
SIMPSON GROUP	4948(-3475)	4946(-3473)
SIMPSON WILCOX	4974(-3501)	4974(-3501)
MCLISH SHALE	5006(-3533)	5002(-3529)
RTD	5045(-3572)	
LTD		5045(-3572)

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 221' with 240 sxs Class A, 2% gel, 3% cc, plug down at 9:30 pm on September 3, 2011. Cement did Circulate.

Production Casing: 5 1/2" Ran.

Deviation Surveys: 225' 1/4, 1197' 1/4, 1700' 3/4, 2203' 1/2, 2705 1/4, 3208' 1/2, 3802' 1/4, 3895' 3/4, 4020' 3/4 degree, 4115' 1/4, 4548' 1, 5045' 1.

Contractor Bit Record: 1- 14 3/4" out at 225'.

2- 7 7/8" out at 4548'.

3 -7 7/8" out at 5045'.

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: One DST by Superior Testers Enterprises, LLC

Logged by Superior Well Services

LTD 5045'.

DSTs

DST #1 4485 to 4548'

Times 30-60-60-120

1st Opening - Strong Blow, BOB 11 Minutes

2nd Opening - Strong Blow, BOB 1 Minute

Recovery, 90' Drilling Mud

IFP 75 to 80# FFP 78 to 95#


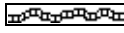
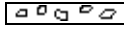










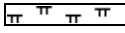

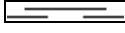







ISIP 336# FSIP 335#

IHP 2293# FHP 2268#















































































CREWS









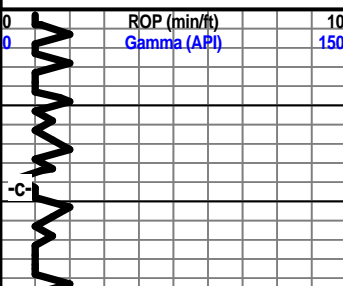
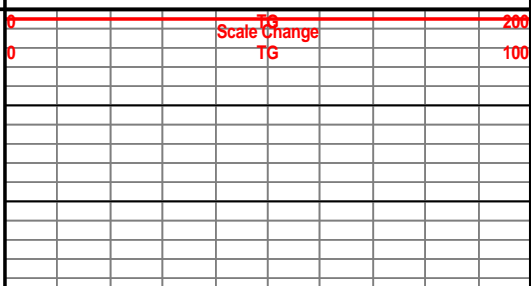
H2 Drilling Rig #3
 Tool Pusher - Randy Smith
 Drillers - Gary Axtell
 Luis Marquez
 Cesar Regalado
 Cain Charles

ROCK TYPES

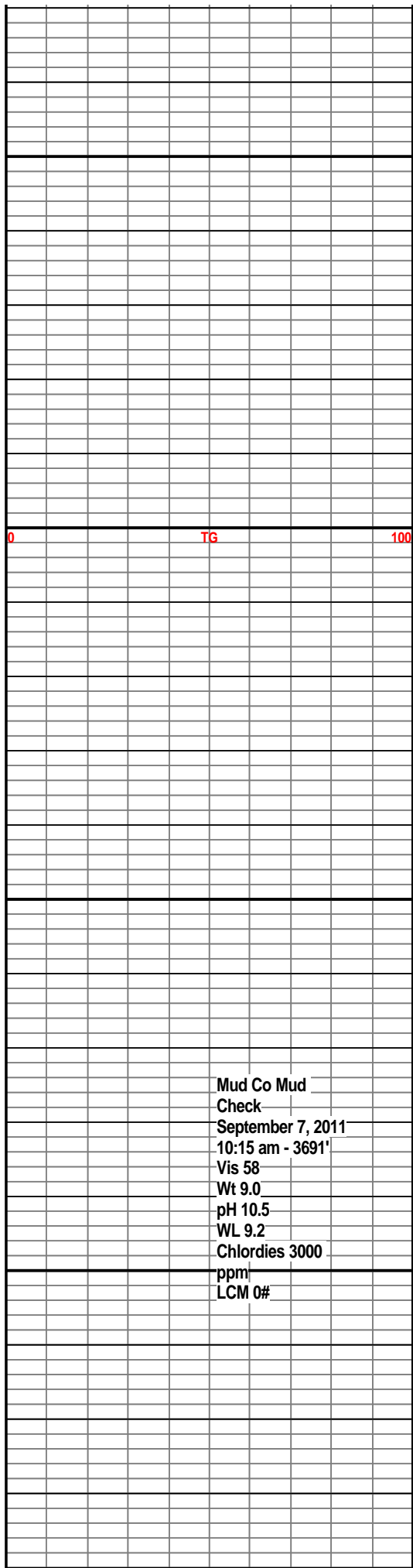
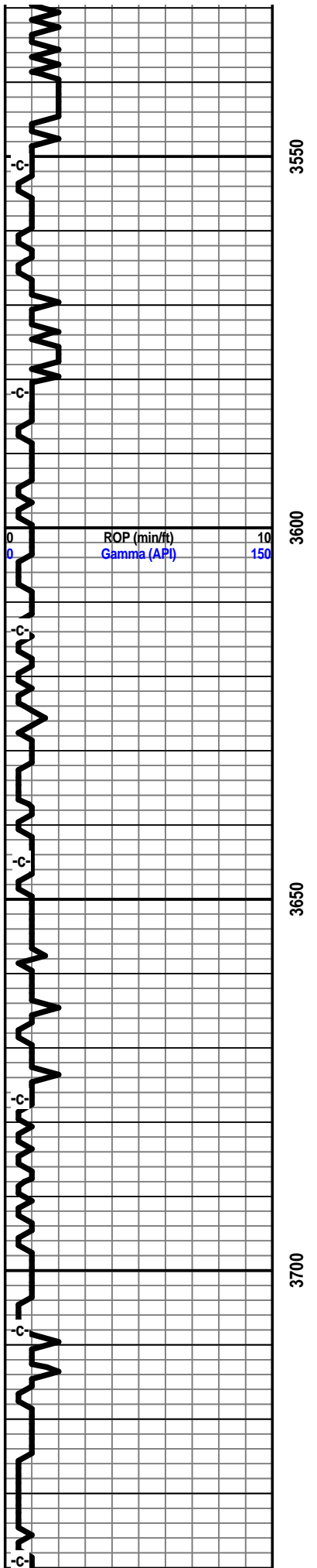
 Anhy  Bent  Brec  Cht  Clyst  Coal	 Congl  Sdy dolo  Shy dolo  Dol  Gyp  Sdy lmst	 Lmst  Mrlst  Salt  Shale  Sltst  Ss	 Black sh  Gry sh  Shale  Shyslstst  Sltysh
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ACCESSORIES

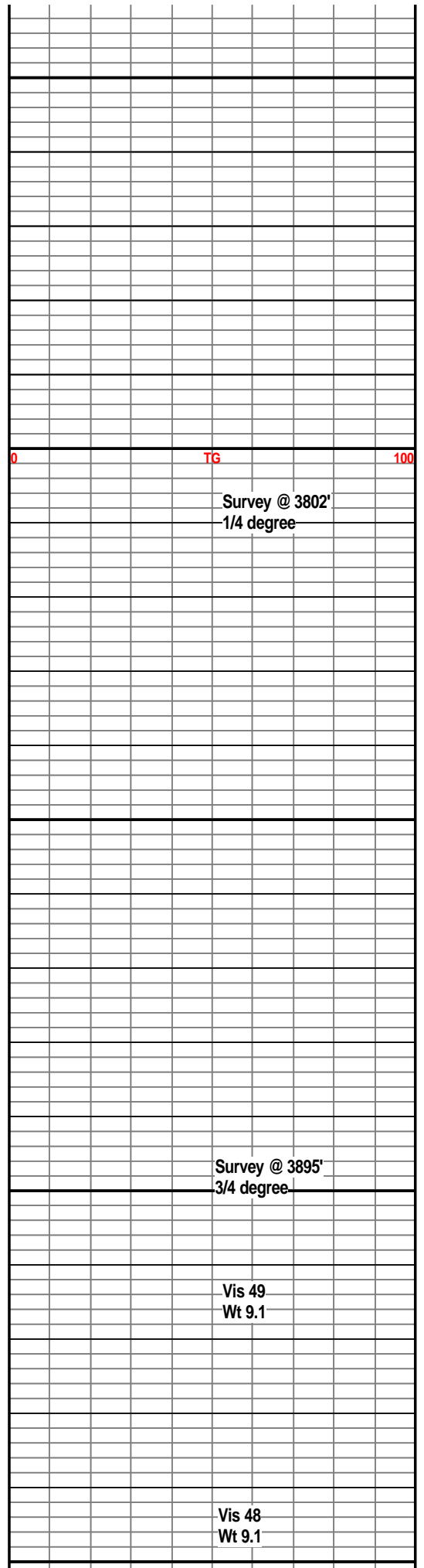
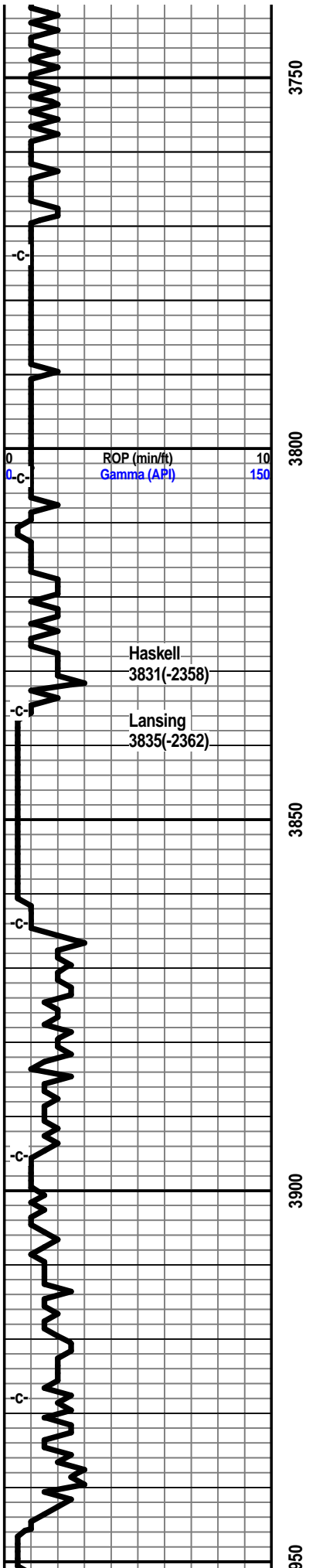
MINERAL  Anhy  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Ferrpel  Ferr  Glau  Gyp  Marl  Nodule  Phos  Pyr  Salt  Sandy  Silt	 Chlorite  Dol  Sand  Sltly FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pellet  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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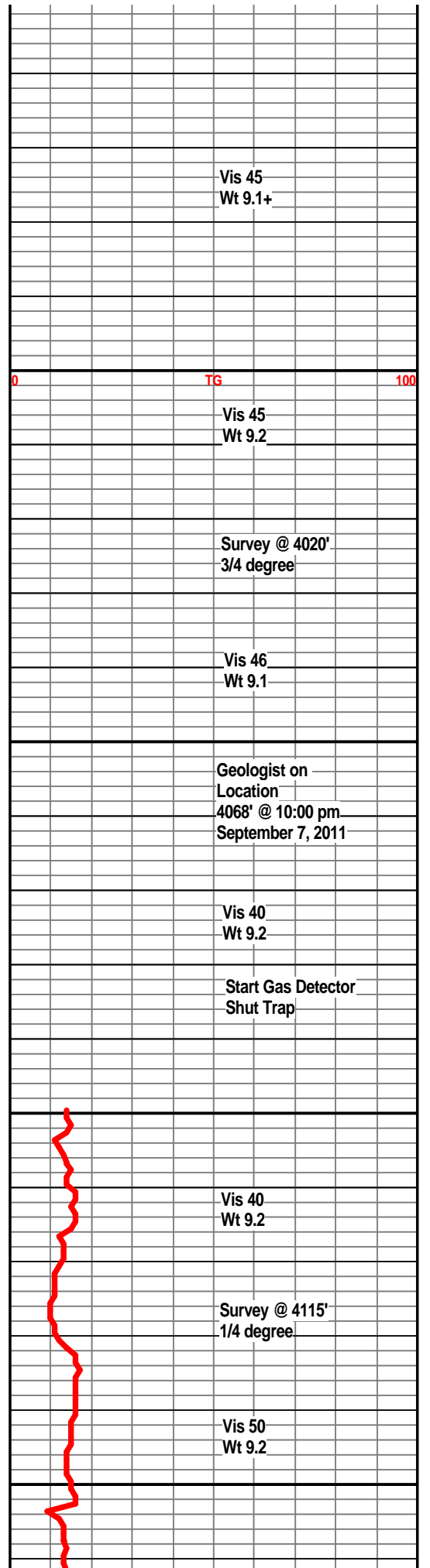
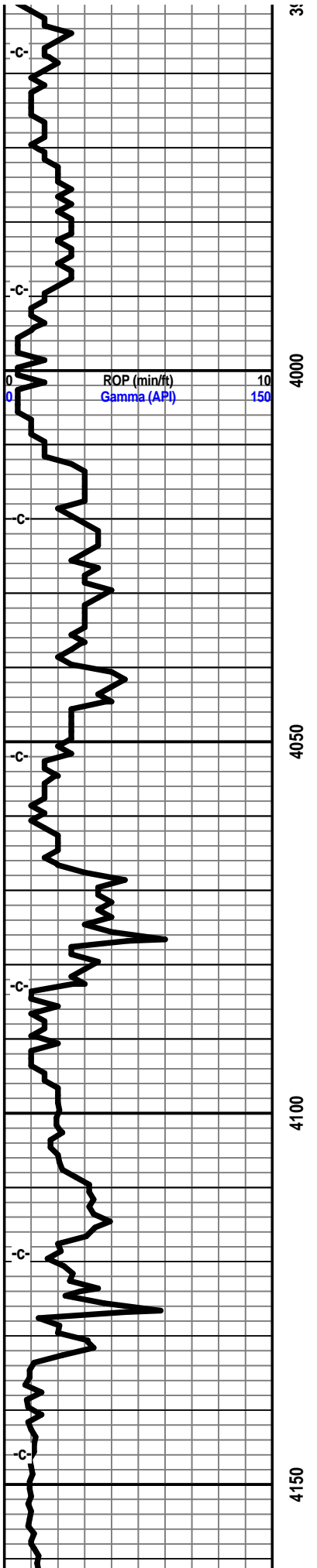
Curve Track 1	Depth	Lithology	Geological Descriptions	TG, C1-C5
ROP (min/ft)  Gamma (API) 				TG (units)  C1 (units)  C2 (units)  C3 (units)  C4 (units)  C5 (units) 
	35		Drilling Progress September 3, 2011 MIRT September 4, 2011 291' @ 7:00 am September 5, 2011 1880' @ 7:00 am September 6, 2011 2768' @ 7:00 am September 7, 2011 3551' @ 7:00 am September 8, 2011 4285' @ 7:00 am	

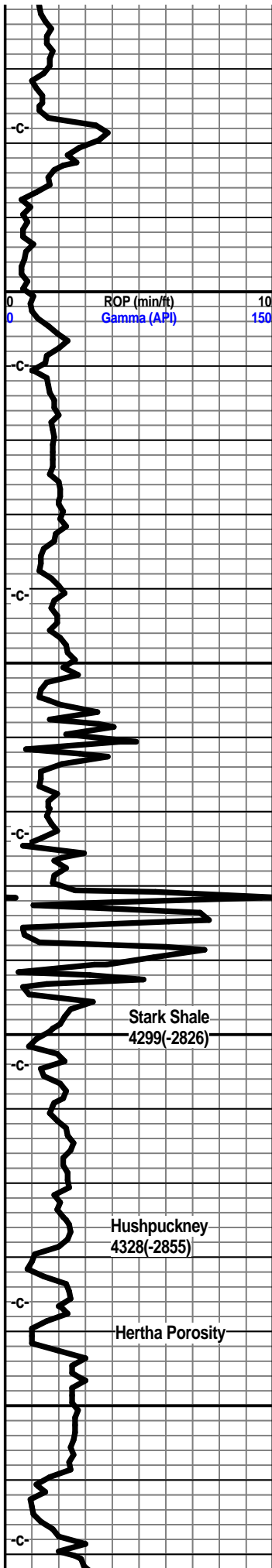
September 8, 2011 4285 @ 7:00 am
September 9, 2011 4548' @ 7:00 am
September 10, 2011 4730' @ 7:00 am
September 11, 2011 5045' @ 7:00 am



Mud Co Mud
Check
September 7, 2011
10:15 am - 3691'
Vis 58
Wt 9.0
pH 10.5
WL 9.2
Chlordies 3000
ppm
LCM 0#





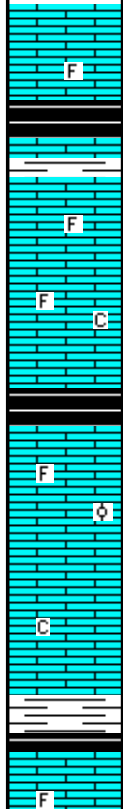


4200

4250

4300

4350



Limestone, buff, tan, grey, fxln, slightly foss.

Shale, grey, black, carb.

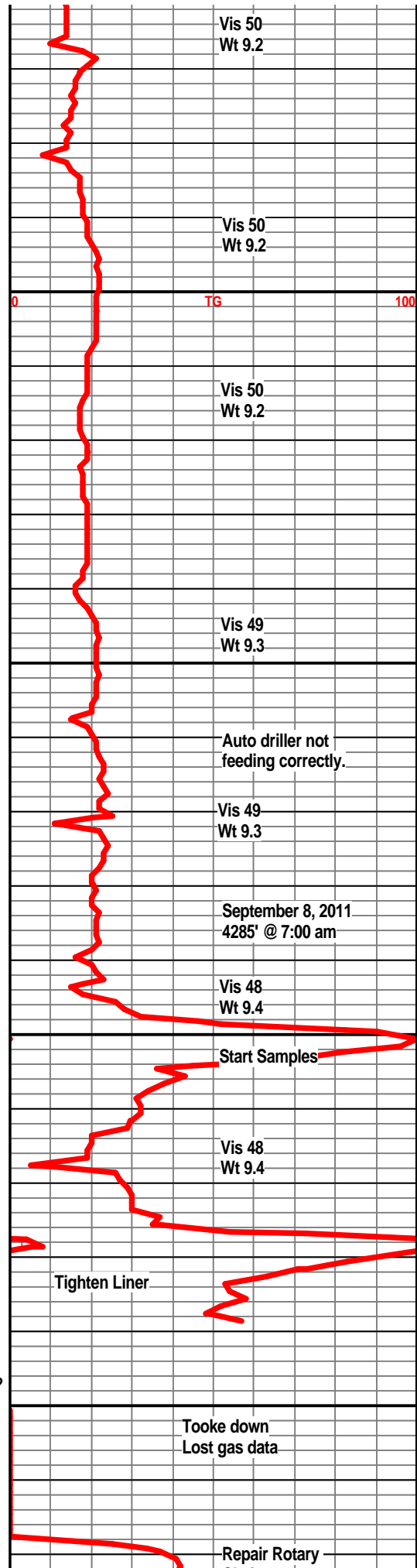
Limestone, cream-white, grey, fxln, dense, trace of fossils, slightly chalky in part.

Shale, grey-black, carb.

Limestone, buff, grey-white, xln, foss. in part, trace xln porosity, few scattered vugs, trace oolites, no odor, no fluor, possible gas kick???

Shale, grey, some grey-black, slightly carb.

Limestone, grey-white, xln, dense, foss, chalky in part



Vis 50
Wt 9.2

Vis 50
Wt 9.2

Vis 50
Wt 9.2

Vis 49
Wt 9.3

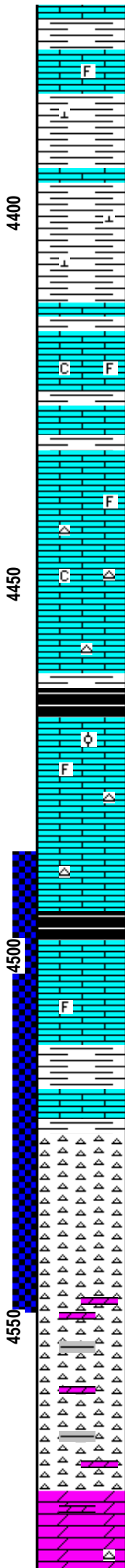
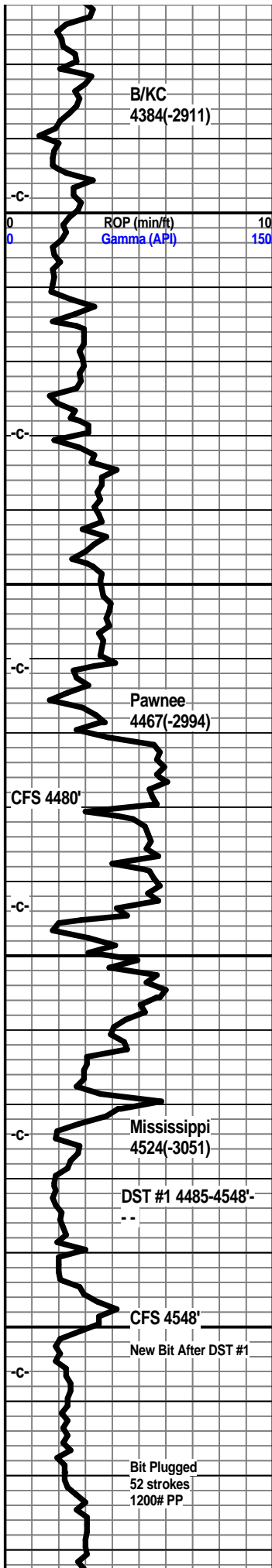
Vis 49
Wt 9.3

Vis 48
Wt 9.4

Vis 48
Wt 9.4

Tooke down
Lost gas data

Repair Rotary



Shale, light grey, soft.

Limestone, grey-white, xln, chalky, trace of fossils.

Shale, grey-green, calcitic.

Shale, grey-green, calcitic, few grey lime streaks.

Limestone, grey, tan-brown, some fossils, chalky and shaley in part.

Shale, grey.

Limestone, cream, buff-white, fxln, dense, trace fossils, some tan cherts, slightly subchalky.

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

Shale, grey-black, carb.

Limestone, cream, tan, fxln, oolitic in part, traces of xln & pin point porosity, dull min fluor, no visible shows of oil, questionable gas bubbles, no odor.

Limestone, cream-white, xln, dense, traces of chert, fossils.

Limestone, buf, tan, xln, fossils, some oolites, traces of tan chert.

Shale, grey-black, carb.

Limestone, buff, tan, xln, dense, slightly foss.

Shale, grey, dark grey.

Limestone, cream, buff, fxln, dense, trace chalky, trace sand.

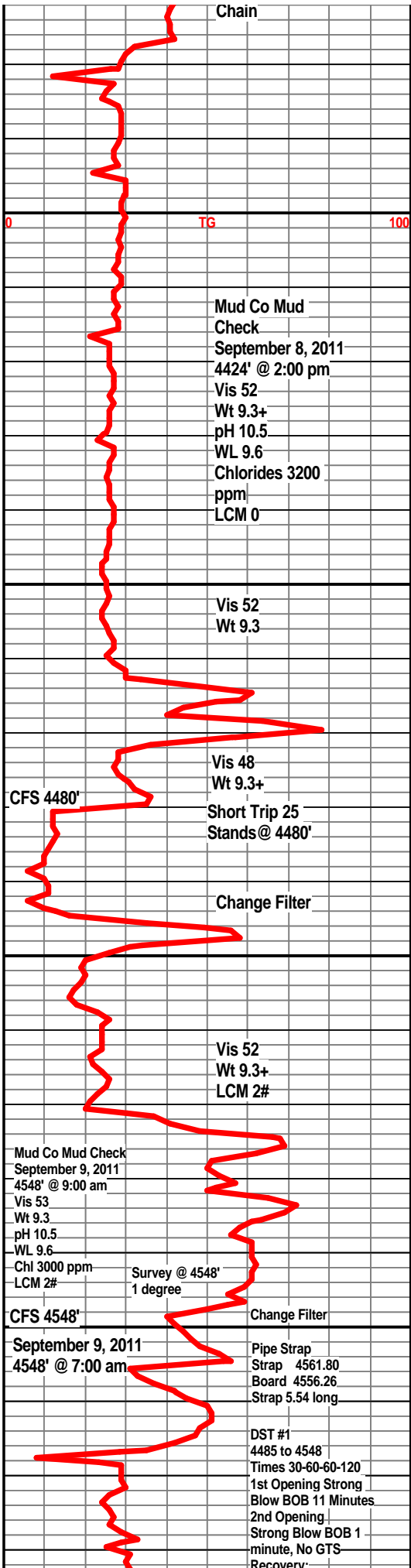
Chert, white to off-white, some translucent, weathered in part, some light brown staining, poor odor, small pp porosity, dull fluor.

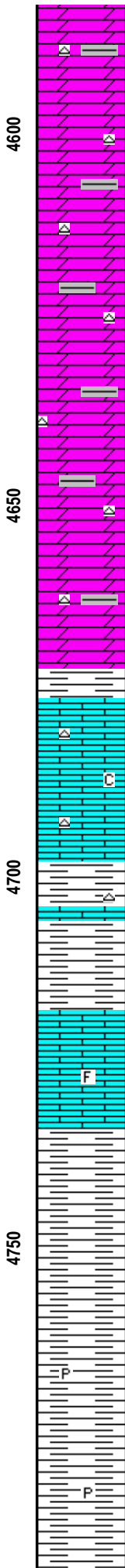
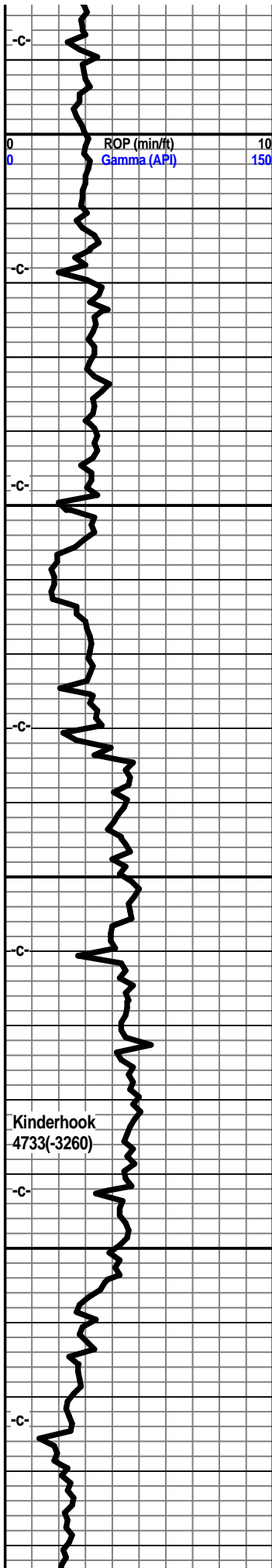
30 min- Chert, off-white, some tan, translucent, sharp, some weathered, trace pp porosity, scattered light brown staining, trace show oil under UV light, p-f odor, dull fluor.

60 min- Chert, off-white, tan, translucent, some sharp, scattered pp porosity, fair odor, slight show of oil, most under UV light, scattered light staining, dull scattered fluor.

Chert, white, grey-white, dolo in part, some light grey-green shale stringers, light scattered staining, p-f odor, dull fluor, some scattered pp porosity, questionable light show oil.

Dolo, light grey-white, xln, dense, traces of weathered cherts, some scattered light





staining, p odor, dull fluor, some grey-green shales.

Dolo, light grey-white, xln, granular, dense, traces of weathered cherts, slight scattered staining, faint to poor odor, grey-green splintery shales, dull fluor.

Dolo, light grey, xln, dense, traces of sharp cherts, shaley in part.

Dolo, grey to light grey, xln, granular, dense, cherty in part, grey green shales.

Dolo, grey to grey-white, xln, dense, cherty, grey-green shales.

Dolo, grey-white to grey, xln, dense, cherty, increasing shales.

Dolo, grey-white, dense, xln, cherty, shaley.

Shale, pale grey-green.

Limestone, cream-white, xln, dense, traces of chert, slightly foss., chalky in part.

Shale, grey-green.

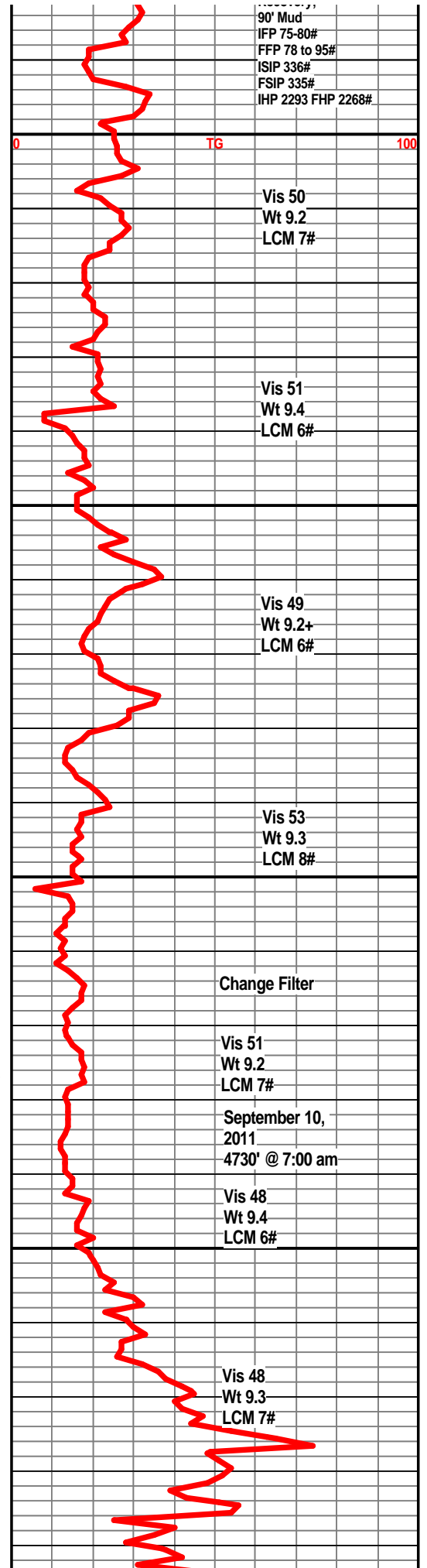
Limestone, buff, cream-white, xln, dense, trace foss.

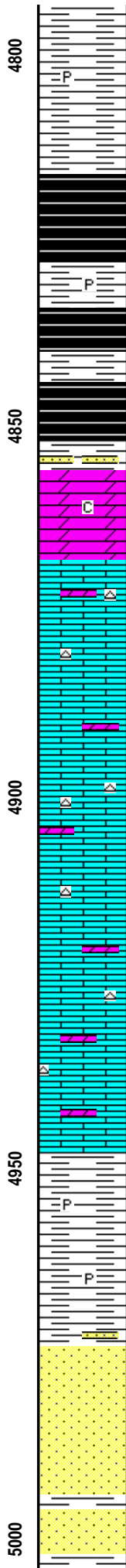
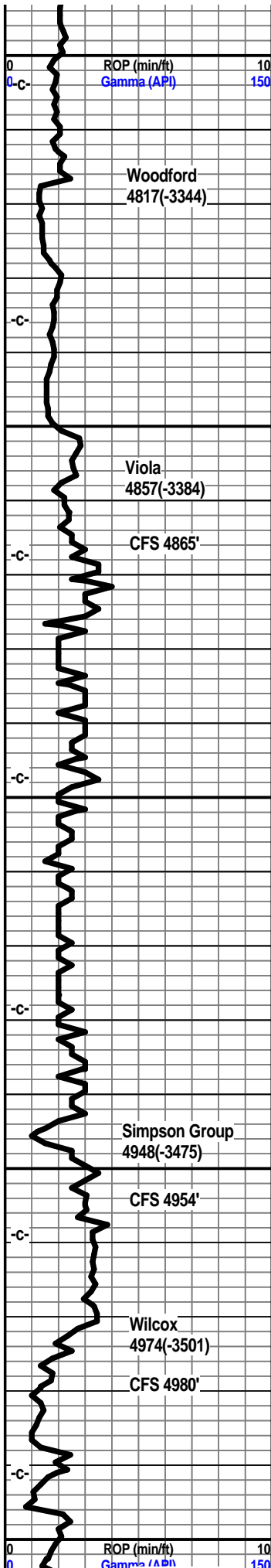
Shale, grey, splintery, silty.

Shale, dark grey, silty.

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

Shale, dark grey, slightly carb.





Shale, dark grey.

Shale, grey-black, dark brown, carb.

Shale, grey-black, coffee brown, carb

Shale, grey-black, coffee brown,

Shale, dark grey, some grey fn grained sand clusters interbedded, well cemented, traces of pyrite, no visible shows, no odor, no fluor.

Dolo, grey-white, xln, fn grained, granular, chalky in part, trace of xln porosity, no odor, no visible shows.

Limestone, cream, buff, light grey, xln, dense in part, dolo in part, trace xln porosity, trace white chert, no visible shows.

Limestone, buff, tan, xln, dense, tan cherts, trace chalk, no visible shows.

Limestone, grey, tan, buff, xln dense, tan sharp cherts, dolo in part, no shows.

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

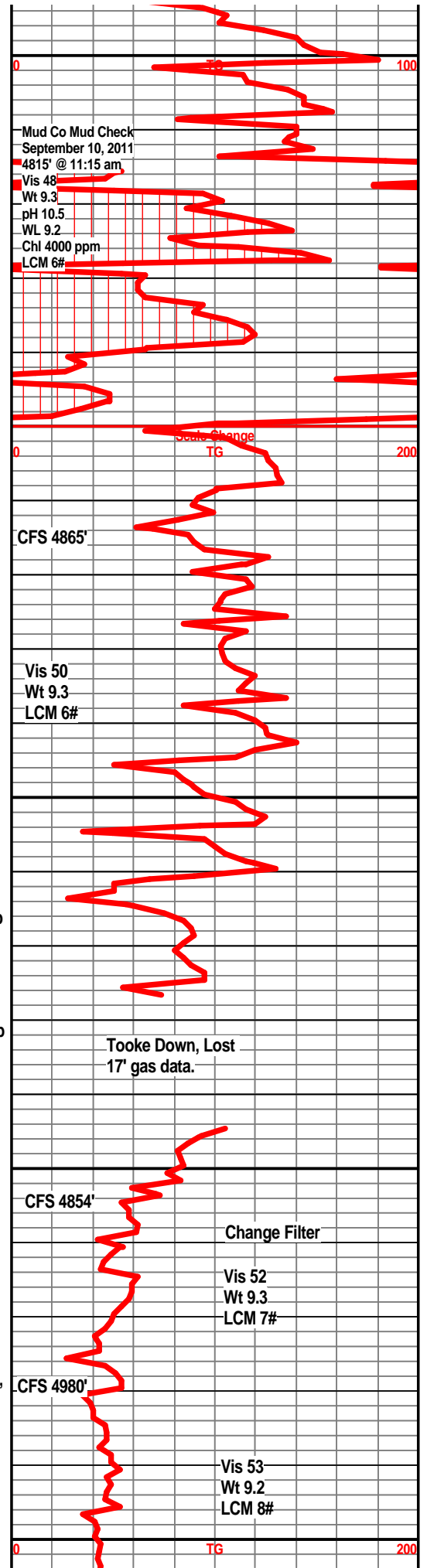
Limestone, tan, buff-white, xln, traces of xln porosity, dolo in part, no odor, no visible shows, very dull fluor.

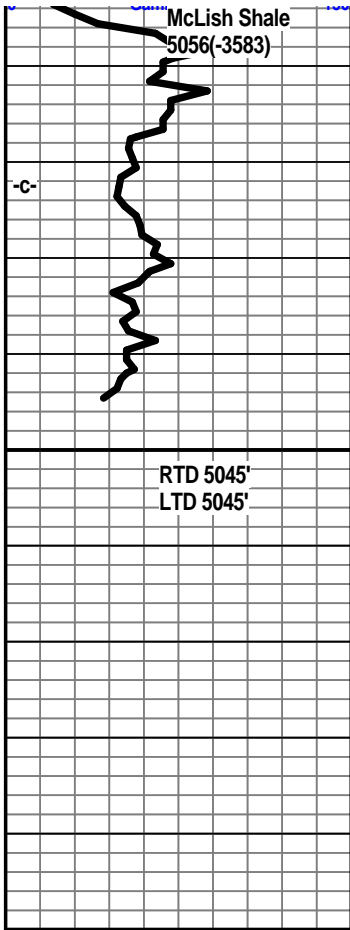
Shale, green, firm, trace pyrite.

Shale, a/a, some interbedded sand grains.

Sandstone, grey-white to frosted, some tan, sa, fair sorting, well cemented at top, friable in part, no visible shows, no odor.

Sandstone, clear to grey-white, well sorted, sa, friable, gluac, no visible shows, no odor.





5050

00



Shale, dark green, firm, traces of pyrite.

Shale, dark green to green, firm.

