



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

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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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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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

September 29, 2011

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

Re: ACO1
API 15-007-23710-00-00
MILLER D 1
NW/4 Sec.14-34S-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. 040092

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Melvin College KS

DATE <u>06-03-11</u>	SEC. <u>14</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>4:30 AM</u>
LEASE <u>Miller D</u> WELL # <u>1</u>			LOCATION <u>Gerlane & Bethel Rds, 2s,</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			3/4 w, spinto				

CONTRACTOR H-2 #3
 TYPE OF JOB Surface
 HOLE SIZE 14 3/4 T.D. 220
 CASING SIZE 10 3/4 + 8 5/8 DEPTH 202 + 13
 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 19 1/2 Bbls Fresh H2O

OWNER Woolsey
 CEMENT
 AMOUNT ORDERED 240s x class A + 3% cc + 2% gel

COMMON <u>Class A 240</u>	@	<u>16.25</u>	<u>3900.00</u>
POZMIX _____	@		
GEL <u>5 sy</u>	@	<u>21.25</u>	<u>106.25</u>
CHLORIDE <u>9 sy</u>	@	<u>58.20</u>	<u>523.80</u>
ASC _____	@		

WELL FILE

- Regulatory Correspondence
- Drill Comp
- Tests / Meters
- Workovers
- Operations

HANDLING <u>254</u>	@	<u>2.25</u>	<u>571.50</u>
MILEAGE <u>15/.11 / 254</u>			<u>419.10</u>
			TOTAL <u>5520.65</u>

EQUIPMENT

PUMP TRUCK CEMENTER D. Felio
 #471-302 HELPER D. West
 BULK TRUCK
 #364 DRIVER D. Felio
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Popeon BHM Break Circ. w/ truck
 mix 240sx cement, start disp w/
 Fresh H2O, wash up truck, see in-
 crease in PST slow Rate, stop
 Pump at 19 1/2 Bbls total Disp.,
 Shut in, cement did circ.

SERVICE

DEPTH OF JOB <u>215</u>			
PUMP TRUCK CHARGE _____		<u>1125.00</u>	
EXTRA FOOTAGE _____	@		
MILEAGE <u>30</u>	@	<u>7.00</u>	<u>210.00</u>
MANIFOLD _____	@	<u>NC</u>	
<u>Light Vehicle 30</u>	@	<u>4.00</u>	<u>120.00</u>
			TOTAL <u>1455.00</u>

CHARGE TO: Woolsey
 STREET _____
 CITY _____ STATE _____ ZIP _____

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.

SALES TAX (If Any) _____
 TOTAL CHARGES ~~975.00~~
 DISCOUNT ~~60.00~~ IF PAID IN 30 DAYS ~~915.00~~

PRINTED NAME _____
 SIGNATURE M. Felio

ALLIED CEMENTING CO., LLC. 040217

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge

DATE <u>6-12-11</u>	SEC. <u>14</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	CALLED OUT <u>1:30 pm</u>	ON LOCATION <u>2:30 pm</u>	JOB START <u>3:30 pm</u>	JOB FINISH <u>6:30 pm</u>
LEASE <u>Miller D</u>	WELL # <u>1</u>	LOCATION <u>Gerlsin & Berner Rd</u>			COUNTY <u>Berber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>23, 3/4W, Sinto</u>					

CONTRACTOR <u>H2 #3</u>	OWNER <u>Woolsey Operating</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>5225'</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>5040'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42'</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>120 bbls of 29% KCL water</u>	

CEMENT			
AMOUNT ORDERED <u>75s @ 60:40:40 G01</u>			
<u>140s @ Class H + 10% 3S1 + 10% 6V</u>			
<u>6# Kalsec + 8% FL160 + 1/4# Flosec</u>			
COMMON	<u>45</u>	@	<u>16.25</u> <u>731.25</u>
POZMIX	<u>30</u>	@	<u>8.50</u> <u>255.00</u>
GEL	<u>3</u>	@	<u>21.25</u> <u>63.75</u>
CHLORIDE		@	
ASC		@	
<u>Class H</u>	<u>140 sx</u>	@	<u>19.25</u> <u>2695.00</u>
<u>Gypseal</u>	<u>14 sx</u>	@	<u>34.20</u> <u>478.80</u>
<u>Salt</u>	<u>15 sx</u>	@	<u>23.95</u> <u>359.25</u>
<u>Kalsec</u>	<u>840 #</u>	@	<u>.89</u> <u>748.60</u>
<u>FL-160</u>	<u>105 #</u>	@	<u>17.20</u> <u>1806.00</u>
<u>Flosec</u>	<u>35 #</u>	@	<u>2.70</u> <u>94.50</u>
<u>Clapro</u>	<u>12 Gals</u>	@	<u>31.25</u> <u>375.00</u>
		@	
HANDLING	<u>270</u>	@	<u>2.25</u> <u>607.50</u>
MILEAGE	<u>15/270/.11</u>		<u>445.50</u>
			TOTAL <u>8659.15</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Derin F</u>
# <u>360-265</u>	HELPER <u>Jason T.</u>
BULK TRUCK	
# <u>364</u>	DRIVER <u>Derin F</u>
BULK TRUCK	
#	DRIVER

WELL FILE

Regulatory Correspondence
Drig Comp Workovers
Tests / Meters Operations

REMARKS:

Pipe on bottom & break circulation, mix 25s cement for rethor, mix 50s of scovensen mix 140s oil cement, shut down wssh pump & lines, Release plug, Start displacement lift pressure 9+75 bbls, slow rate to 3bpm 9+110 bbls, bump plug 9+120 bbls 1,000 1700 psi, float did hold

SERVICE

DEPTH OF JOB	<u>5040'</u>		
PUMP TRUCK CHARGE			<u>2695.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>15</u>	@	<u>7.00</u> <u>105.00</u>
MANIFOLD		@	
	<u>Head renter</u>	@	<u>200.00</u>
	<u>light vehicle</u>	@	<u>4.00</u> <u>60.00</u>
			TOTAL <u>3060.00</u>

PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>			
1- AFU Float shoe	@	<u>349.00</u>	<u>349.00</u>
1- Latch down plug	@		<u>277.00</u>
10- Turnholizers	@	<u>80.00</u>	<u>800.00</u>
20- Scrappers	@	<u>76.00</u>	<u>1520.00</u>
			TOTAL <u>2946.00</u>

CHARGE TO: Woolsey Operating

STREET _____

CITY _____ STATE _____ ZIP _____

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 X MIKE THARP

SIGNATURE X Mike Tharp
Tharp

SALES TAX (If Any) _____

TOTAL CHARGES 124,665.15

DISCOUNT 20% IF PAID IN 30 DAYS

Net 11,732.12



DRILL STEM TEST REPORT

Woolsey Operating Company L.L.C.

Miller D # 1

125 North Market Suite 1000
Wichita, Kansas 67202-1729

14-34s-11w Barber

Job Ticket: 16553

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.06.09 @ 01:00:00

GENERAL INFORMATION:

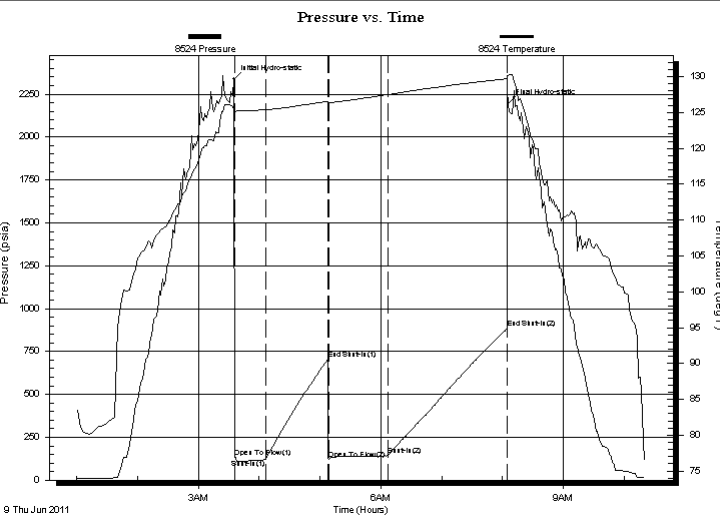
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335-106
 Interval: **4524.00 ft (KB) To 4640.00 ft (KB) (TVD)** Reference Elevations: 1384.00 ft (KB)
 Total Depth: 4640.00 ft (KB) (TVD) 1375.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8524

Inside

Press @ Run Depth: 884.08 psia @ 4635.65 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.06.09 End Date: 2011.06.09 Last Calib.: 2011.06.09
 Start Time: 01:00:00 End Time: 10:21:00 Time On Btm: 2011.06.09 @ 03:35:00
 Time Off Btm: 2011.06.09 @ 08:05:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 minutes
 1st Shut-In 60 Minutes-No blow back
 2nd Opening 60 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute and decreased
 2nd Shut-In 120 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2337.43	125.53	Initial Hydro-static
1	131.43	125.08	Open To Flow (1)
32	119.78	125.39	Shut-In(1)
93	703.34	126.59	End Shut-In(1)
94	121.87	126.41	Open To Flow (2)
152	142.62	127.49	Shut-In(2)
270	884.08	129.71	End Shut-In(2)
271	2195.56	130.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drilling Mud 100% Mud	0.34
60.00	Drilling Mud with a very slight show	0.30
0.00	1/2% Oil 99 1/2% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company L.L.C.

Miller D # 1

125 North Market Suite 1000
Wichita, Kansas 67202-1729

14-34s-11w Barber

Job Ticket: 16553

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.06.09 @ 01:00:00

Tool Information

Drill Pipe:	Length: 4277.00 ft	Diameter: 3.80 inches	Volume: 60.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.86 inches	Volume: - 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: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4524.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.65 ft			
Tool Length:	143.65 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4501.00	
Hydraulic Tool	5.00			4506.00	
Jars	6.00			4512.00	
Safety Joint	2.00			4514.00	
Packer	5.00			4519.00	28.00 Bottom Of Top Packer
Packer	5.00			4524.00	
Anchor	5.00			4529.00	
Change Over Sub	0.75			4529.75	
Drill Pipe	93.15		Outside	4622.90	
Change Over Sub	0.75		Outside	4623.65	
Anchor	11.00			4634.65	
Recorder	1.00	8524	Inside	4635.65	
Recorder	1.00	8525	Outside	4636.65	
Bullnose	3.00			4639.65	115.65 Bottom Packers & Anchor

Total Tool Length: 143.65



DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company L.L.C.

Miller D # 1

125 North Market Suite 1000
Wichita, Kansas 67202-1729

14-34s-11w Barber

Job Ticket: 16553

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.06.09 @ 01:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 9.59 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Drilling Mud 100% Mud	0.344
60.00	Drilling Mud with a very slight show	0.295
0.00	1/2% Oil 99 1/2% Mud	0.000

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8524

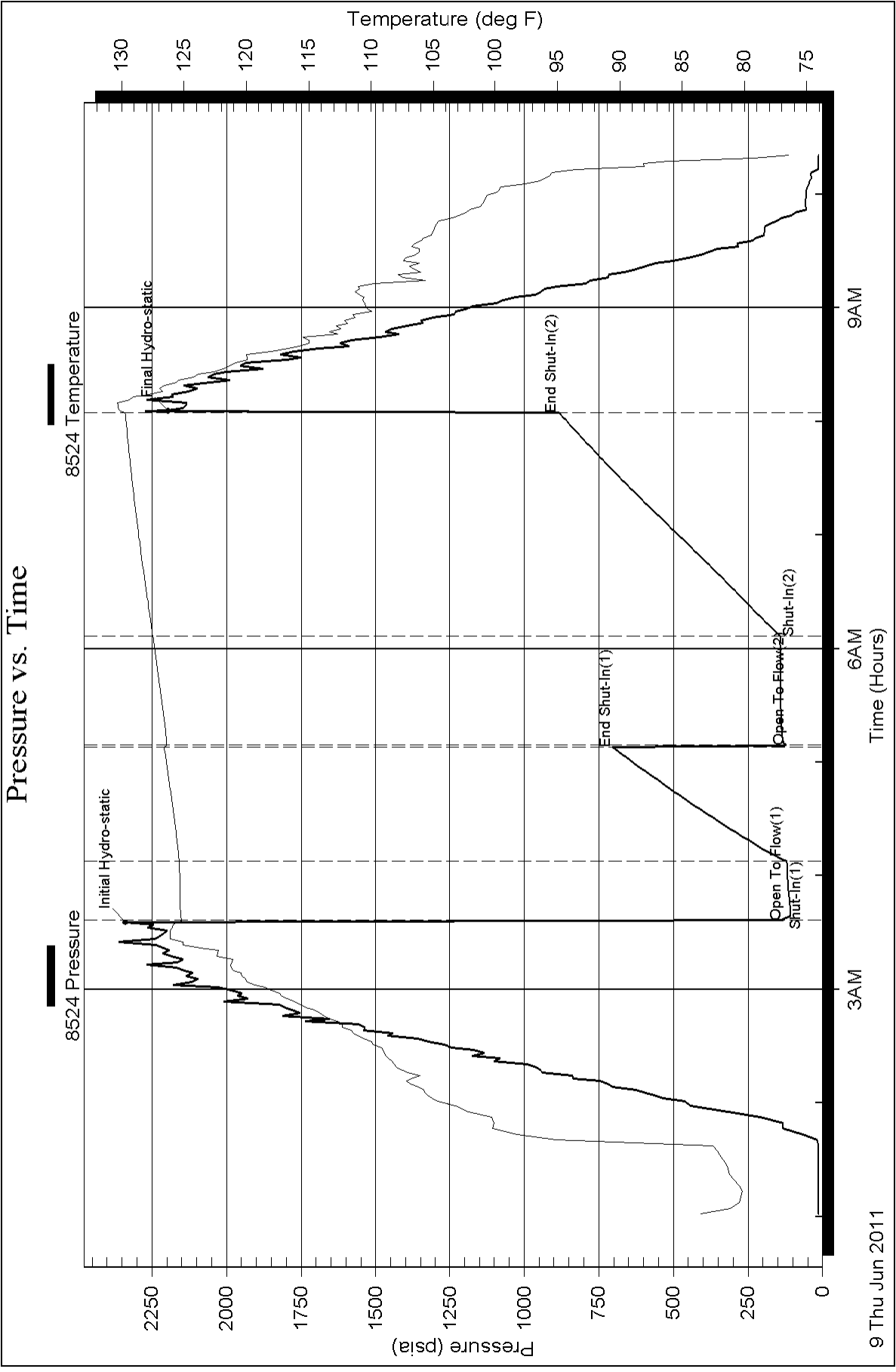
Inside

Woolsey Operating Company L.L.C.

14-34s-11w Barber

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Woolsey Operating Company L.L.C.

Miller D # 1

125 North Market Suite 1000
Wichita, Kansas 67202-1729

14-34s-11w Barber

Job Ticket: 16554

DST#: 2

ATTN: Scott Alberg

Test Start: 2011.06.10 @ 08:00:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335 -106 pratt

Interval: 4648.00 ft (KB) To 4690.00 ft (KB) (TVD)

Reference Elevations: 1384.00 ft (KB)

Total Depth: 4690.00 ft (KB) (TVD)

1375.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8524 Inside

Press @ Run Depth: 591.18 psia @ 4686.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.06.10

End Date: 2011.06.10

Last Calib.: 2011.06.10

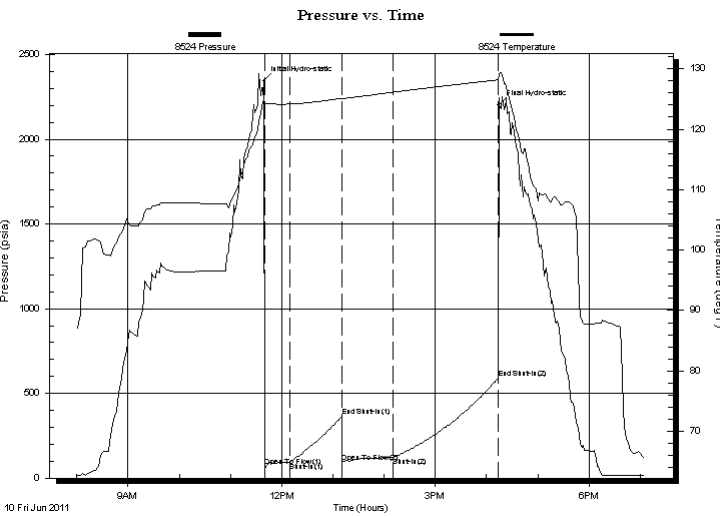
Start Time: 08:00:00

End Time: 19:05:00

Time On Btm: 2011.06.10 @ 11:39:30

Time Off Btm: 2011.06.10 @ 16:14:30

TEST COMMENT: 1st Opening 30 Minutes-Weak building blow built to 6 1/2 inches into the water
1st Shut-In 60 Minutes-No blow back
2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 11 minutes
2nd Shut-In 120 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2345.19	124.70	Initial Hydro-static
1	69.67	124.14	Open To Flow (1)
31	94.40	124.17	Shut-In(1)
91	363.20	125.12	End Shut-In(1)
91	92.68	125.07	Open To Flow (2)
151	121.67	126.13	Shut-In(2)
274	591.18	128.18	End Shut-In(2)
275	2204.32	129.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drilling mud	0.34
60.00	Slightt oil cut mud	0.30
0.00	5%Gas 5%Oil 90%Mud	0.00
0.00	Areal good show of oil betw een the tools	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Company L.L.C.

Miller D # 1

125 North Market Suite 1000
Wichita, Kansas 67202-1729

14-34s-11w Barber

Job Ticket: 16554

DST#: 2

ATTN: Scott Alberg

Test Start: 2011.06.10 @ 08:00:00

Tool Information

Drill Pipe:	Length: 4398.00 ft	Diameter: 3.80 inches	Volume: 61.69 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 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: 74000.00 lb
			<u>Total Volume: 62.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4648.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4625.00	
Hydraulic Tool	5.00			4630.00	
Jars	6.00			4636.00	
Safety Joint	2.00			4638.00	
Packer	5.00			4643.00	28.00 Bottom Of Top Packer
Packer	5.00			4648.00	
Anchor	37.00			4685.00	
Recorder	1.00	8524	Inside	4686.00	
Recorder	1.00	8525	Outside	4687.00	
Bullnose	3.00			4690.00	42.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company L.L.C.

Miller D # 1

125 North Market Suite 1000
Wichita, Kansas 67202-1729

14-34s-11w Barber

Job Ticket: 16554

DST#: 2

ATTN: Scott Alberg

Test Start: 2011.06.10 @ 08:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 9.00 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Drilling mud	0.344
60.00	Slightlt oil cut mud	0.295
0.00	5%Gas 5%Oil 90%Mud	0.000
0.00	Areal good show of oil betwe en the tools	0.000

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

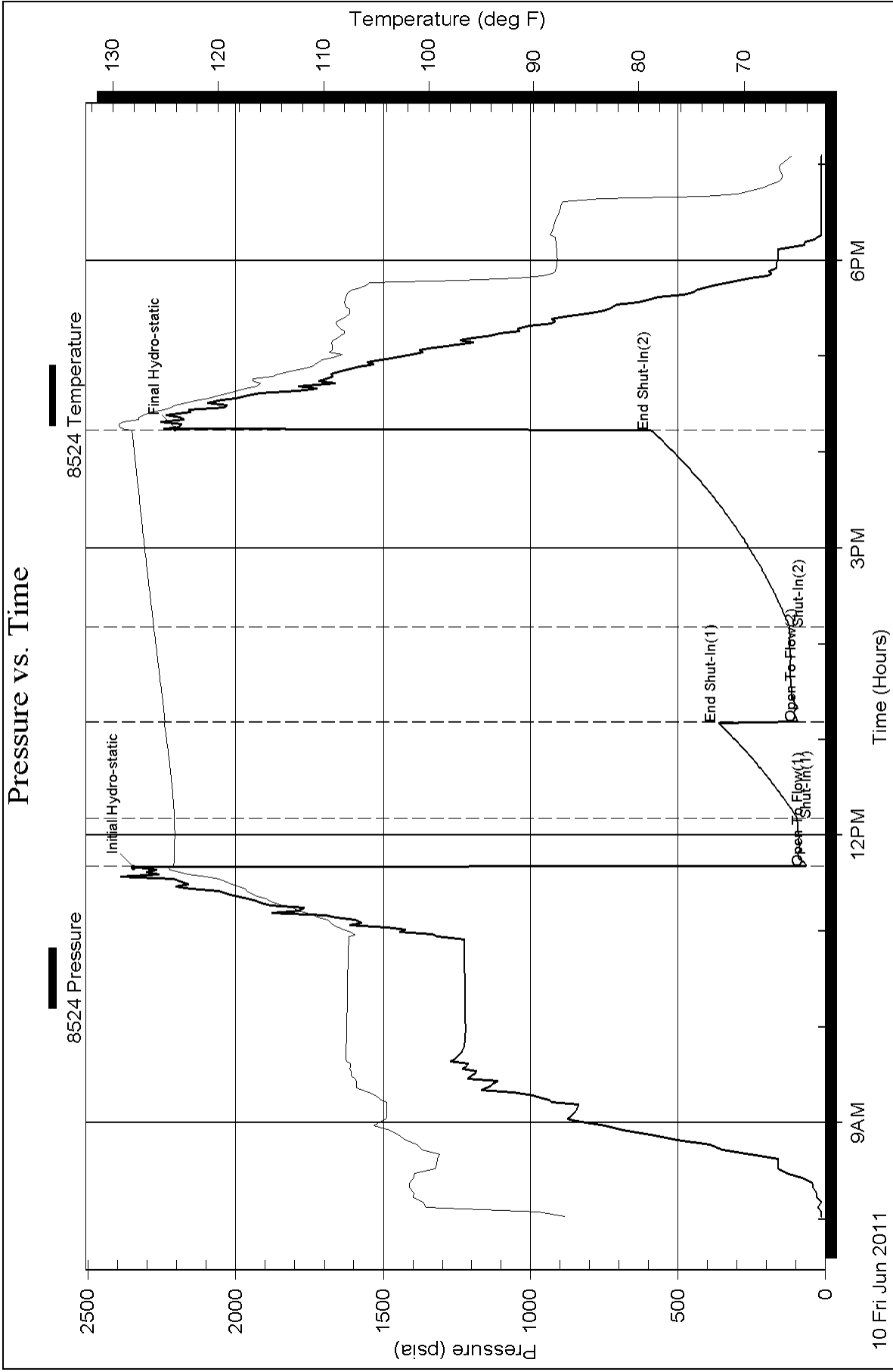
Serial #: 8524

Inside

Woolsey Operating Company L.L.C.

14-34s-11w Barber

DST Test Number: 2





Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Miller D #1
Location: E2 NW NW NW
License Number: API: 15-007-23710-00-00
Spud Date: June 2, 2011
Surface Coordinates: 330' FNL & 500' FWL Section 14-Twp 34 South - Rge 11 West
Wildcat
Bottom Hole Vertical Hole
Coordinates:
Ground Elevation (ft): 1375 K.B. Elevation (ft): 1384
Logged Interval (ft): 3000 To: RTD Total Depth (ft): 5225
Formation: McLish Shale
Type of Drilling Fluid: Chemical Mud, Displace at 3429'

Region: Barber County, Kansas
Drilling Completed: June 12, 2011

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
LECOMPTON	3435(-2051)	3429(-2045)
HEEBNER	3653(-2269)	3648(-2264)
DOUGLAS	3690(-2306)	3684(-2300)
HASKELL	4077(-2693)	4072(-2688)
QUINDARO SHALE	4153(-2769)	4148(-2764)
HUSHPUCKNEY SHALE	4366(-2982)	4360(-2976)
B/KC	4415(-3031)	4411(-3027)
PAWNEE	4514(-3130)	4508(-3125)
CHEROKEE GROUP	4561(-3177)	4556(-3172)
MISSISSIPPIAN	4598(-3214)	4595(-3211)
KINDERHOOK SHALE	4788(-3404)	4784(-3400)
WOODFORD SHALE	4871(-3487)	4867(-3483)
VIOLA	4902(-3518)	4899(-3515)
SIMPSON GROUP	5021(-3637)	5016(-3632)
SIMPSON SAND	5034(-3650)	5030(-3646)
MCLISH SHALE	5094(-3710)	5087(-3703)
MCLISH SAND	5190(-3806)	5186(-3802)
RTD	5225(-3841)	
LTD		5218(-3834)

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 214' with 240 sxs Class A, 2% gel, 3% cc, plug down at 4:30 am on June 3, 2011. Cement did Circulate.

Production Casing: Ran 5 1/2" Casing.

Deviation Surveys: 1 1/2- 220', 1 - 1229', 1/2-1763', 1 1/4-2201, 3/4 - 2705', 1 - 3209', 1/2 - 3618', 1 1/2 - 3806, 1 - 3899', 3/4 - 4023', 1/4 - 4149', 3/4 - 4640', 1 - 5225'

Contractor Bit Record:

- 1- 14 3/4" out at 220'.
- 2 - 7 7/8" out at 4640'.
- 3 - 7 7/8" out at 5225'.

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Aaron Rush, Brad Bortz, Engineers

DSTs: Two Tessts by Superior Testers Enterprises, LLC

Logged by Superior Well Services

LTD - 5218'.

DST'S

DST #1 4524 to 4640 Times 30-60-60-120

1st Opening - BOB in 5 minutes, no blow back

2nd Opening - BOB in 1 minute, no blow back

Recovery: 70' Drilling Mud, 60' Mud with slight show of oil, (1/2% oil, 99 1/2% Mud), No GIP.

IHP 2337 FHP 2195

IFP 131-119 FFP 121-142

ISIP 703 FSIP 884

DST #2 4648 to 4690' Times 30-60-60-120

1st Opening - Weak blow building to 6 1/2" in bucket

2nd opening - Fair blow built to BOB on 11 minutes

Recovery: 70' Drilling Mud, 60' SOCM (5% oil, 5% gas, 90% Mud)

IHP 2347 FHP 2337

IFP 61-93 FFP 91-120

ISIP 360 FSIP 587

CREWS

H2 Drilling Rig #3


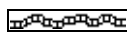
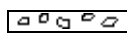

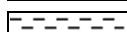

Tool Pusher - Randy Smith







Drillers - Gary Axtell


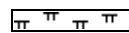




Luis Marquez






Cain Charles

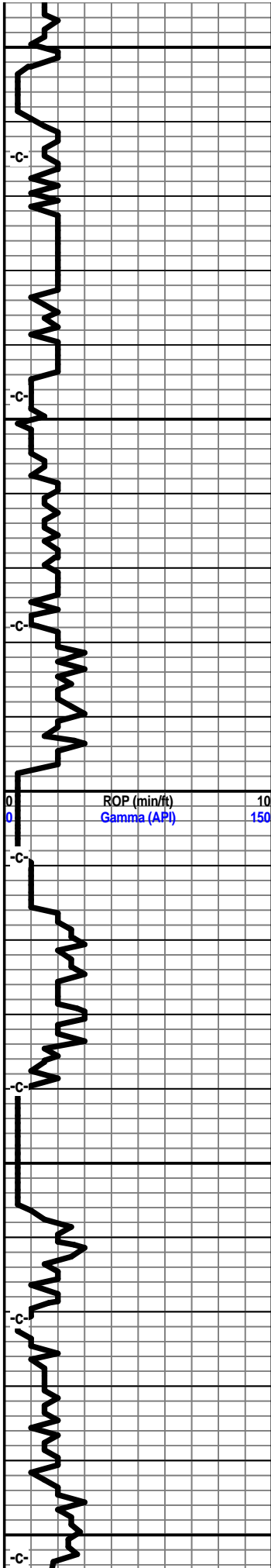
ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal

	Congl
	Sdy dolo
	Shy dolo
	Dol
	Gyp
	Sdy lmst

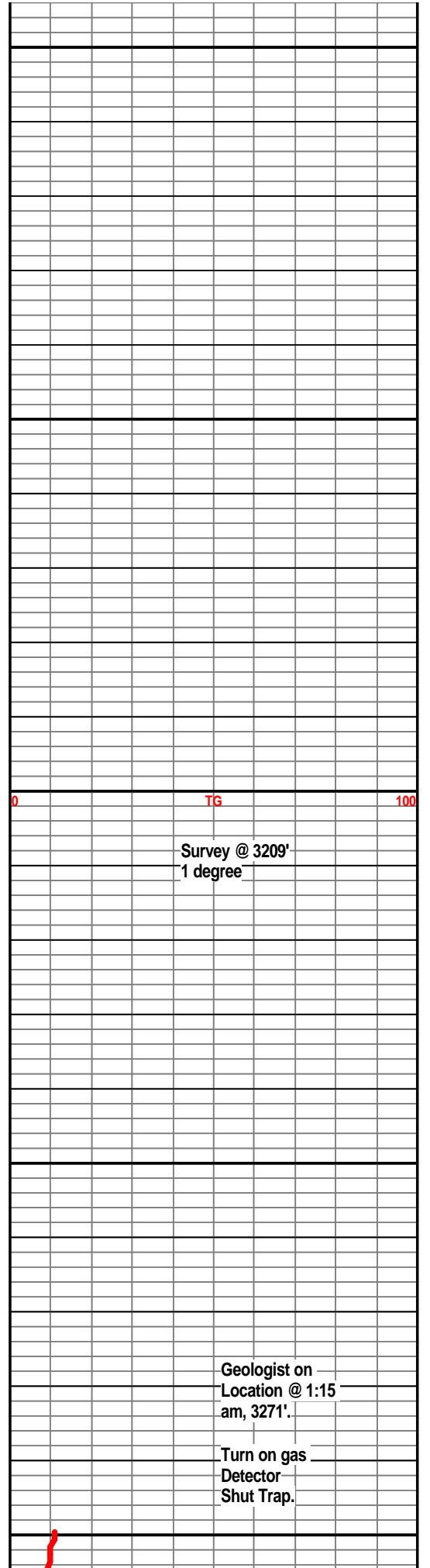
	Lmst
	Mrlst
	Salt
	Shale
	Sltst
	Ss

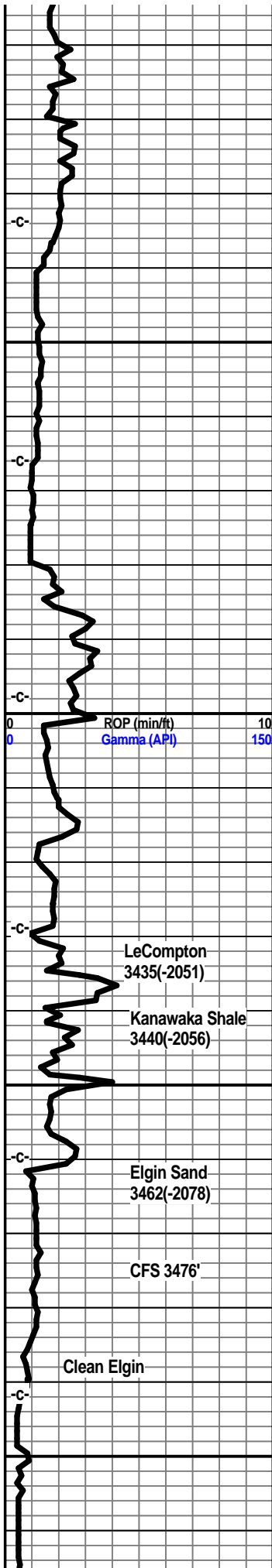
	Black sh
	Gry sh
	Shale
	Shyslts
	Sltys



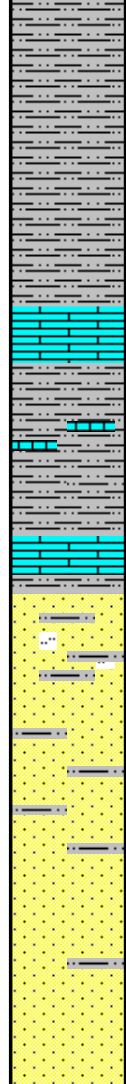
3300 3250 3200 3150 3100

3300 3250 3200 3150 3100

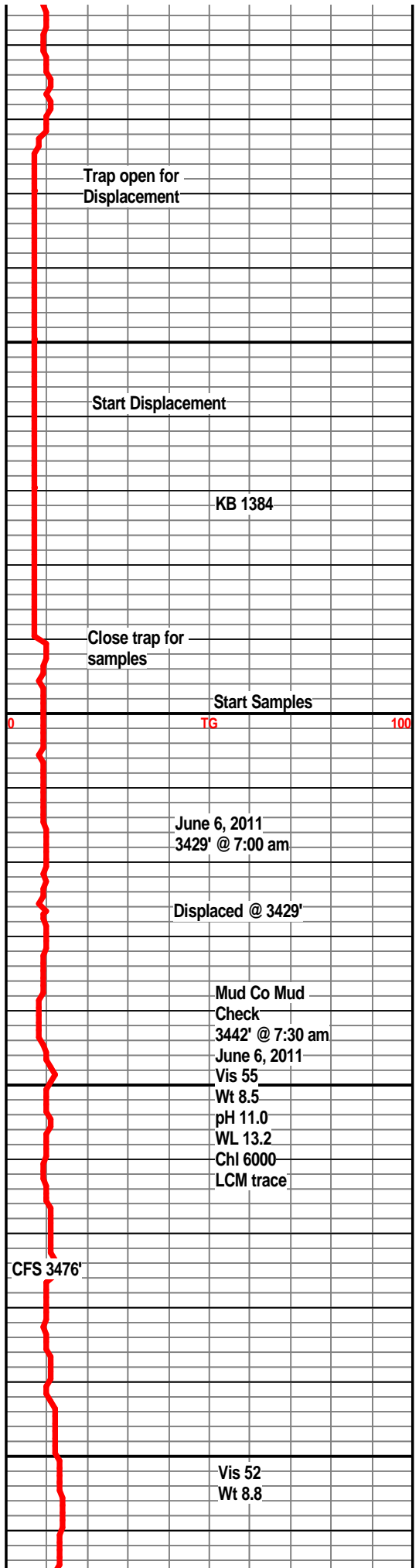




3350
3400
3450
3500



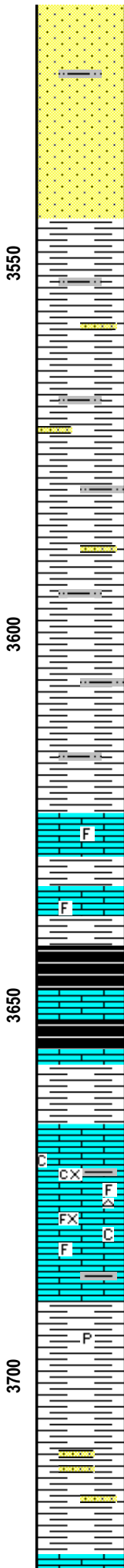
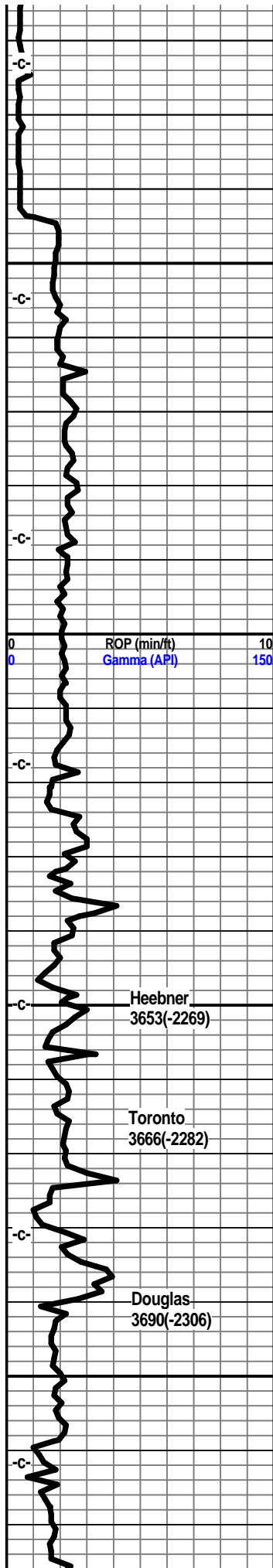
Poor Samples.
 Shale, lt grey, silty, uphole cuttings.
 Shale, Lt grey, silty.
 Limestone, tan-white, xln, dense, foss. in part.
 Shale, grey, silty, trace limestone.
 Limestone, cream-white, xln, dense, trace foss.
 Sandstone, lt grey, very fn grained, very silty, mica, no visible shows, no kick.
 Sandstone, clear to white, very fn grained, silty, friable in part, mica, cleaner sand than above, no visible shows, no odor, no kick.
 Sandstone, clear to grey-white, fn grained, friable. silty in part. mica. no visible shows.



0 TG 100

Mud Co Mud Check
 3442' @ 7:30 am
 June 6, 2011
 Vis 55
 Wt 8.5
 pH 11.0
 WL 13.2
 Chl 6000
 LCM trace

Vis 52
 Wt 8.8



Sandstone, clear to white, fn grained, friable, silty, no visible shows.

Shale, Lt grey, very silty to sandy, soft.

Shale, lt grey, silty to sandy, trace tan limestone fragments.

Shale, lt grey, silty to sandy.

Shale, Lt grey silty to sandy.

Shale, lt grey.

Limestone, tan, xln dense, foss.

Shale, grey-green

Limestone, grey-brown, fn xln, dense, sl foss.

Shale, grey-black.

Limestone, cream-tan, xln, dense.

Shale, grey-black.

Limestone, tan-brown, xln dense.

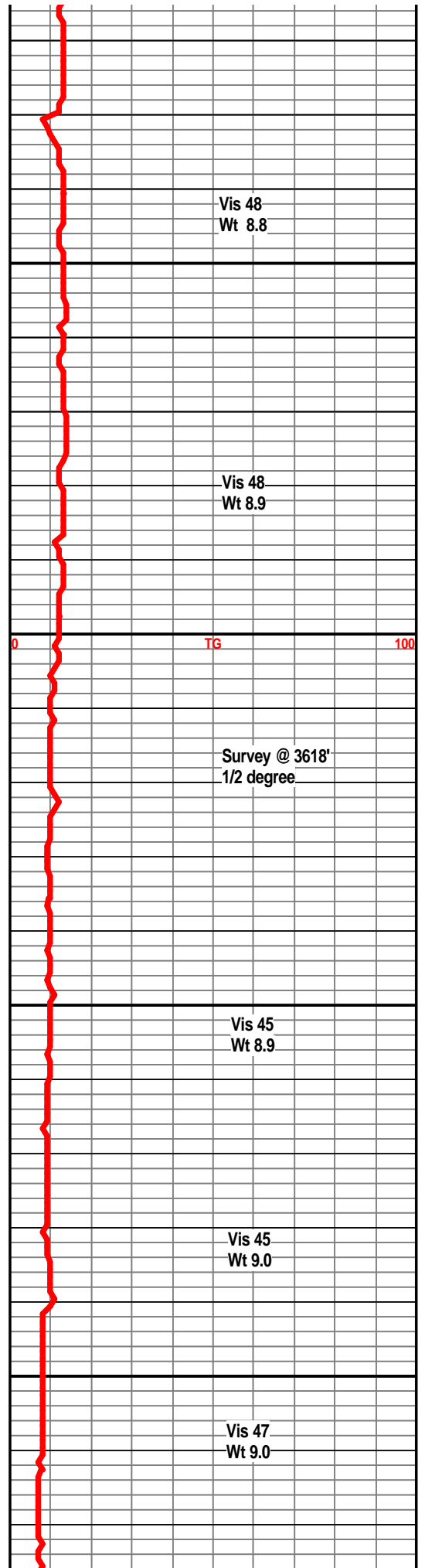
Shale, lt grey, silty.

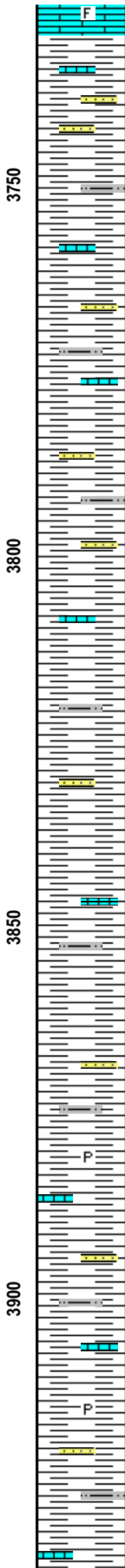
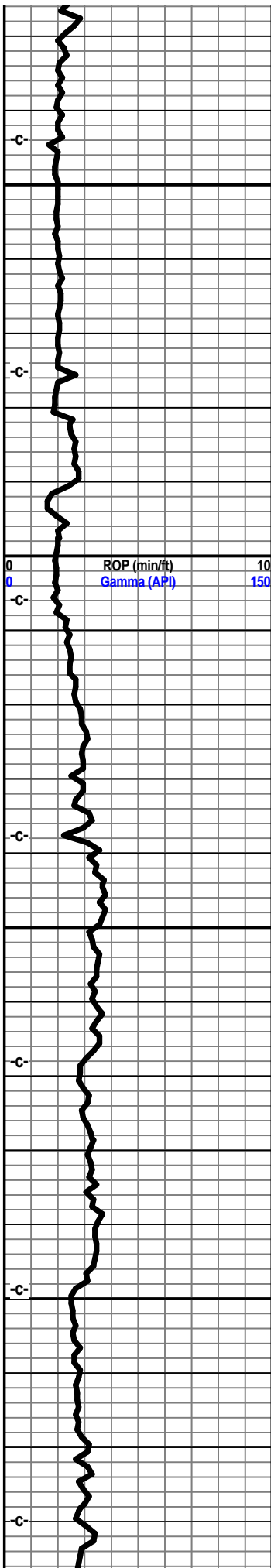
Limestone, tan-white, xln, slightly foss, subchalky, trace shale stringer.

Limestone, cream-white, tan, fxln, trace xln porosity, foss in part, subchalky, traces of white chert, no visible shows.

Shale, grey, silty, trace pyritic.

Shale, lt grey, traces of sandstone, well cemented, fn grained, mica, poorly sorted, no visible shows.





Limestone, tan-brown, mxln, dense, slightly foss.

Shale, Lt grey, light grey-green, silty to sandy, some interbedded lime stringers.

Shale, lt grey, silty, traces of sandstone clusters, some tan-brown interbedded ls.

Shale, grey to light grey, silty, sandy in part, traces of tan ls fragments.

Shale, light grey, silty, sandy and some ls frags.

Shale, Light grey, silty, some sand clusters and tan limestone fragments.

Shale, grey, silty, sst & tan-brown ls interbedded.

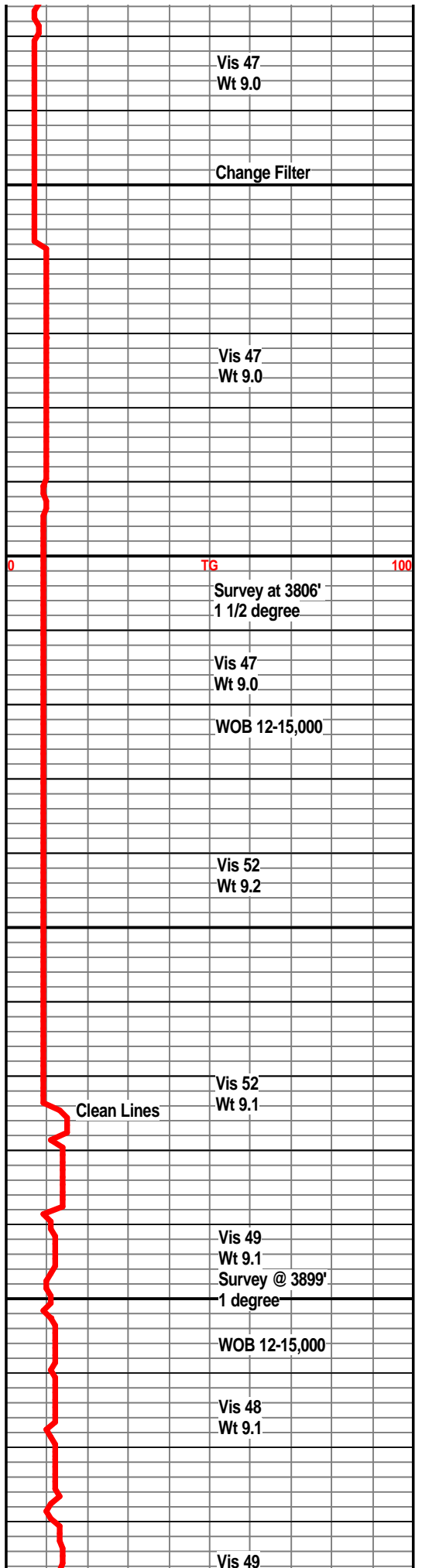
Shale, light grey, silty.

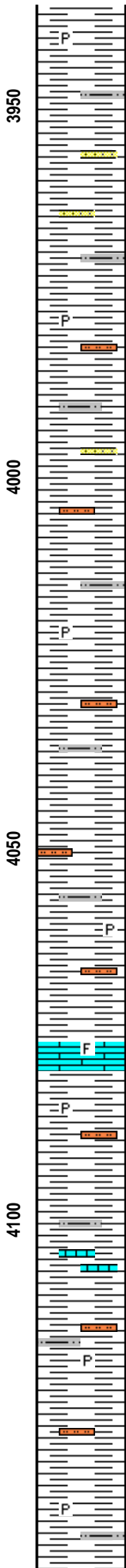
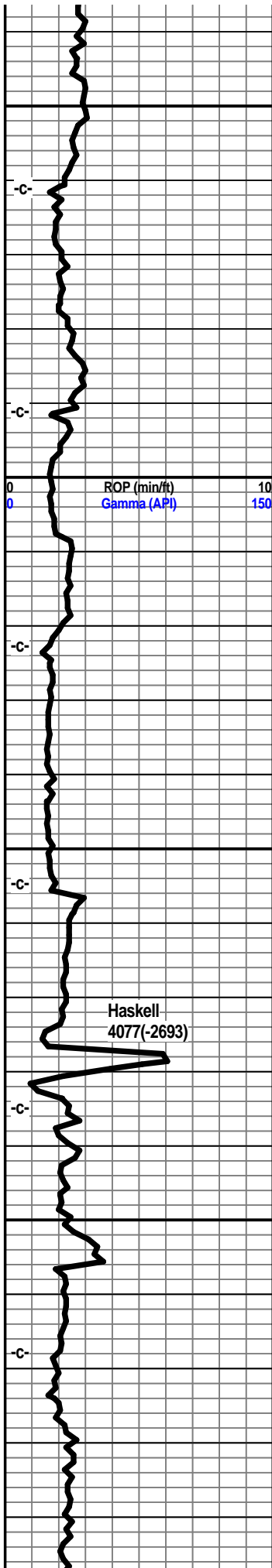
Shale, light grey, silty, sandy with limestone.

Shale, grey, silty, traces of sand, traces of limestone.

Shale, light grey to green, silty, traces of pyrite, sand and limestone.

Shale, light grey-green, silty, sand and limestone fragments.





Shale, light grey to green, silty.

Shale, light grey to grey, silty, traces of sandstone clusters, some tan-brown limestone.

Shale, light grey to grey, silty, trace pyrite.

Shale, grey, soft, silty, traces of sand.

Shale, grey to light grey, silty, traces of pyrite, slightly sandy in part.

Shale, grey, silty to sandy.

Shale, grey, dark grey, traces of pyrite.

Limestone, tan-brown, xln, dense, trace foss.

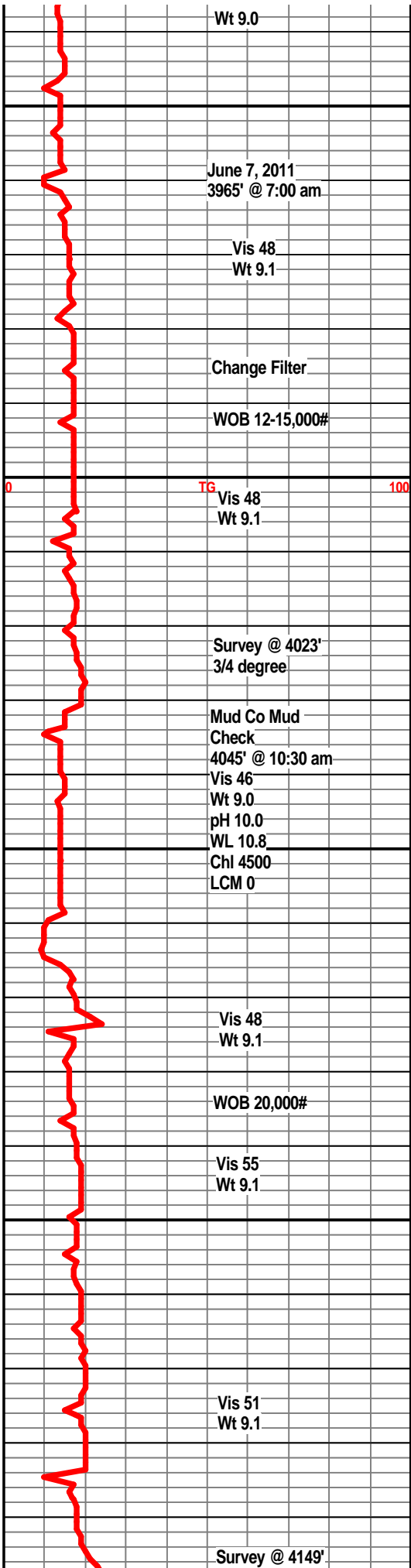
Shale, dark grey, silty.

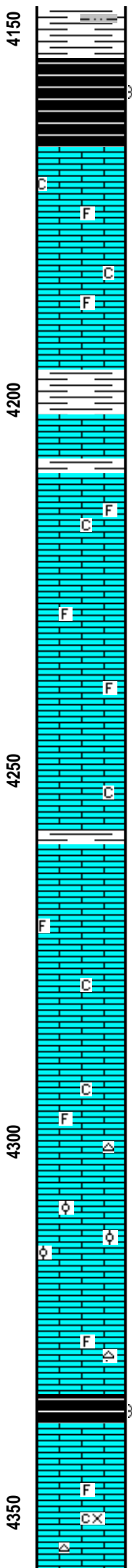
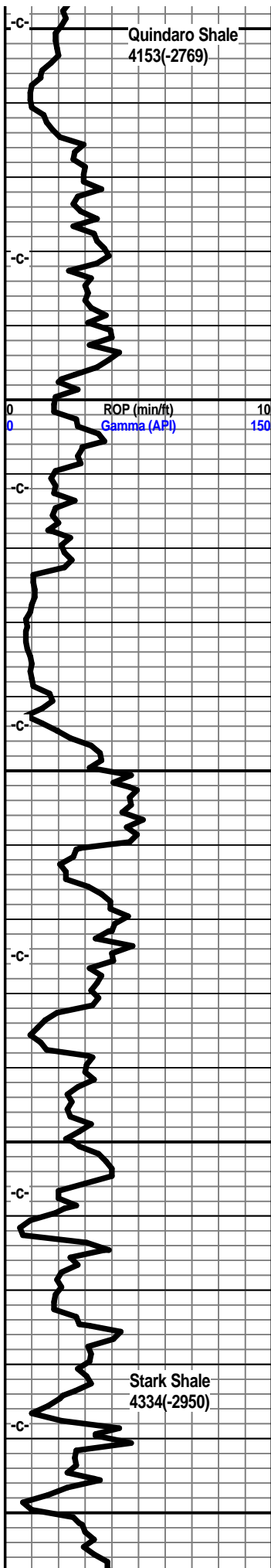
Shale, dark grey to grey, silty, trace pyrite.

Shale, dark grey, silty, traces of brown limestone, dense.

Shale, grey to dark grey, silty, traces of pyrite inclusions.

Shale, dark grey, silty.





Shale, grey-black, slightly carb.

Limestone, cream, grey-white, fxln, dense, slightly shaley, foss, subchalky in part.

Limestone, cream, tan-white, fxln, dense, slightly foss, slightly chalky.

Shale, light grey.

Limestone, tan-brown, xln, dense

Limestone, cream-tan, xln, slight foss. chalky.

Limestone, cream-white, xln, foss fragments, foss porosity, xln porosity.

Limestone, cream-tan, xln, partly dense, foss in part.

Shale, light grey.

Limestone, cream-tan, xln, foss frags, foss porosity.

Limestone, cream-tan, xln, xln porosity, foss porosity, slightly chalky.

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

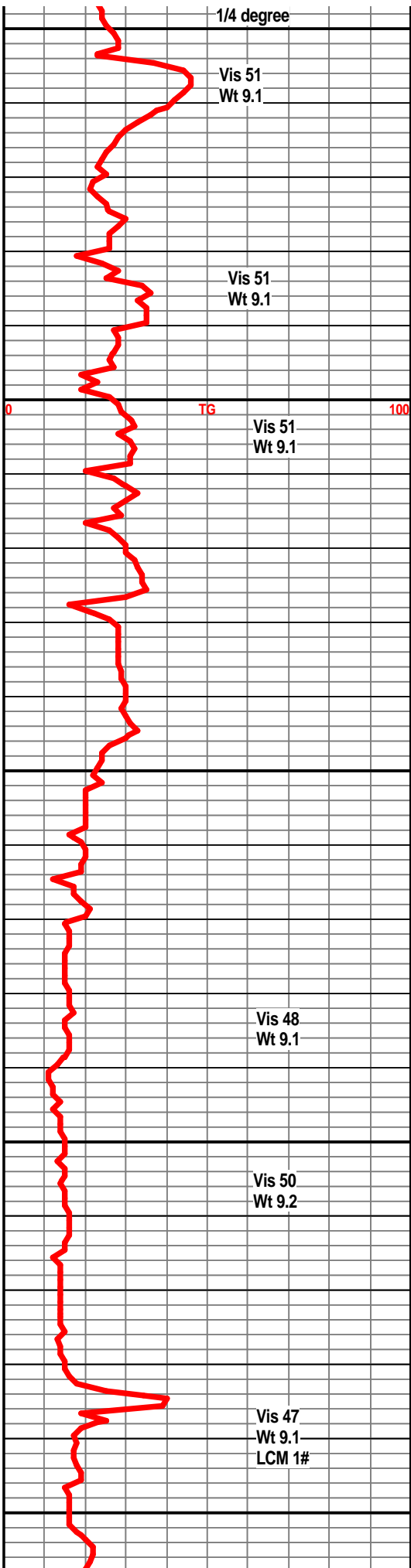
Limestone, tan-white, xln, dense, oolitic, oolimidic porosity.

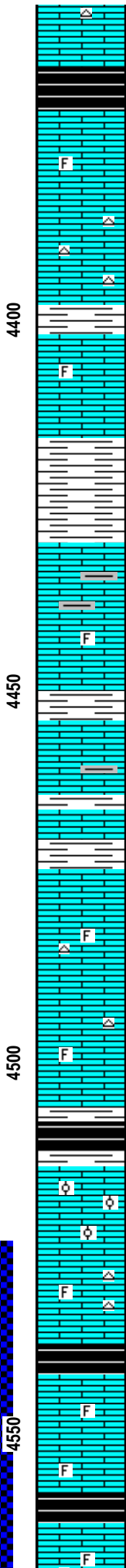
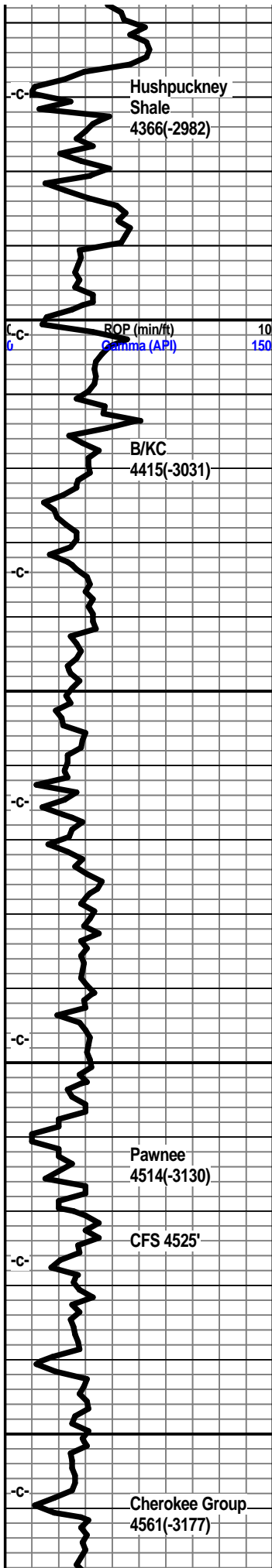
Limestone, tan-white, xln, partly dense, slightly foss, cherty in part.

Shale, grey-black, slightly carb.

Limestone, tan, cream-white, fxln, foss. traces of xln porosity, fsoss porosity, no visible shows, no odor.

Limestone, tan-white, fxln, partly dense, traces





of tan-grey chert.

Shale, dark grey-black, carb.

Limestone, cream-tan, xln, slightly foss, traces of foss porosity, no visible shows.

Limestone, tan-white, xln, slight foss, trace tan chert.

Shale, dark grey.

Limestone tan-white, tan, xln dense, trace foss porosity, no shows.

Shale, lt grey to grey-green.

Limestone, grey to light grey, xln shaley in part, light grey-green.

Shale, light grey-green.

Limestone, buff to cream-white, some pale green, xln, shaley in part.

Shale, grey.

Limestone, tan-white, xln dense, trace of foss, traces of tan cherts.

Limestone, tan-white, xln dense, foss in part, tan cherts.

Shale, grey-black, dark grey, slight show of gas.

Limestone, cream-white, fxln, foss, oolitic in part, traces of xln porosity, trace foss porosity, no visible shows, no odor.

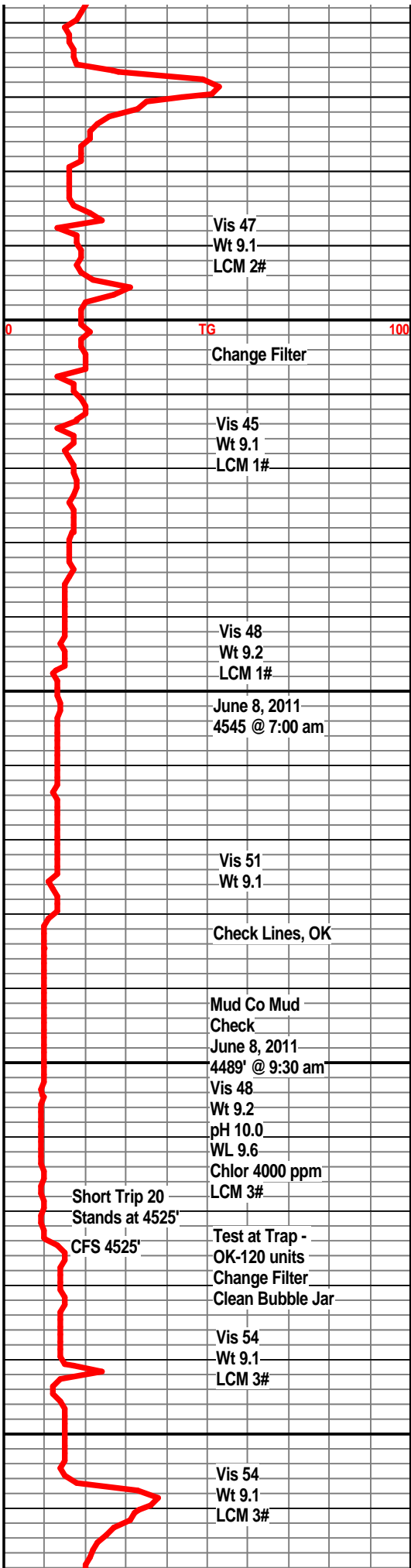
Limestone, cream-white, xln, dense, slight foss, traces of tan chert, subchalky in part.

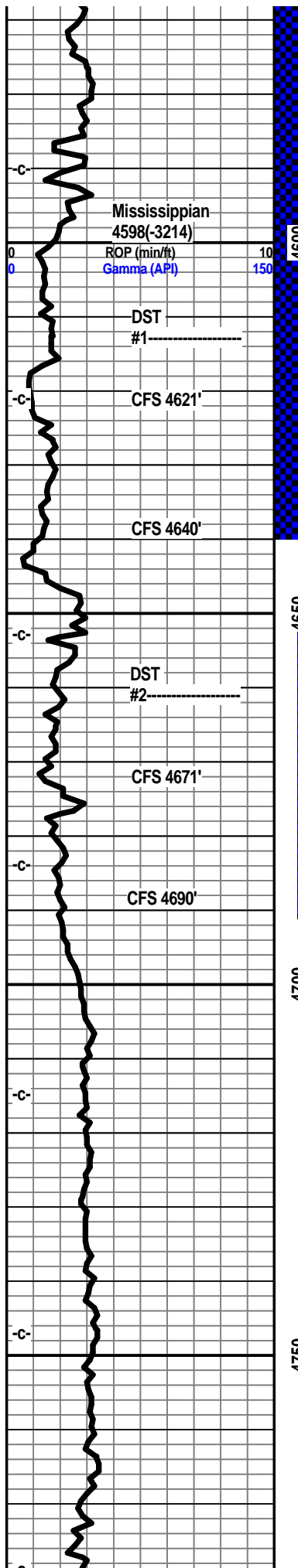
Shale, grey-black, carb.

Limestone, grey-white, fxln, partly dense, traces of foss, subchalky, traces of tan chert.

Shale, grey-black, carb.

Limestone, grey-white, cream-white, fxl





Limestone, grey-white, cream-white, xln, dense, foss, trace of tan-grey chert.

Limestone, tan-white, xln, dense, slightly foss, some granular texture, questionable asphaltic stain, traces of tan chert.

Shale, grey, grey-black, some light grey.

Limestone, cream-white, tan, xln, cherty in part, some weathered chert, pp porosity, slight show of light oil, faint odor, dull fluor.

Chert, off-white, tan, weathered in part, pp porosity, traces of fresh sharp chert, some limey in part, faint odor, slight show of light oil, dull fluor.

Chert, tan-white to grey-white, weathered, pp porosity, traces of scattered small vugs, light brown scattered staining, some dark black staining, fair odor, light show of oil and gas, dull fluor.

Chert, off-white to tan, weathered, pp porosity, some small scattered vugs, light staining, fresh sharp chert, limey in part, fair odor, fair scattered show light oil and gas, dull fluor.

Chert, white to off-white, weathered, scattered pp and vug porosity, fair odor, scattered show light oil and gas, sharp white cherts, dull fluor.

Chert, white to off-white, tan, weathered, pp porosity, fair odor, traces of light green shale, sharp off-white to white tan chert, dull fluor.

Chert, off-white to tan, weathered, some sharp fresh, fair odor, light brown staining, dolo to limey in part, show of bleeding oil and gas, some free oil in tray, dull fluor.

Chert, white, off-white, tan, weathered, pp porosity, fair odor, show light oil and gas, scattered staining, some tan-white dolo w/ gil specks, pale light green shale, very dull fluor.

Dolo, grey-white, xln, abundant weathered cherts, traces of pp porosity, poor odor, slight show oil and gas, slight brown staining, some fresh sharp cherts, grey-green shales.

Dolo, grey-white, xln, abundant cherts, trace shows light oil, light staining, poor odor, grey-green shales, some sharp cherts.

Dolo, grey-white, xln, cherts decreasing, still some with scattered light brown staining, no odor, very dull fluor, grey-green splintery shales.

Dolo, grey-white, tan-white, xln, some off-white to translucent chert, sharp, very seldom stain on chert, grey-green splintery shales, no odor, no free oil.

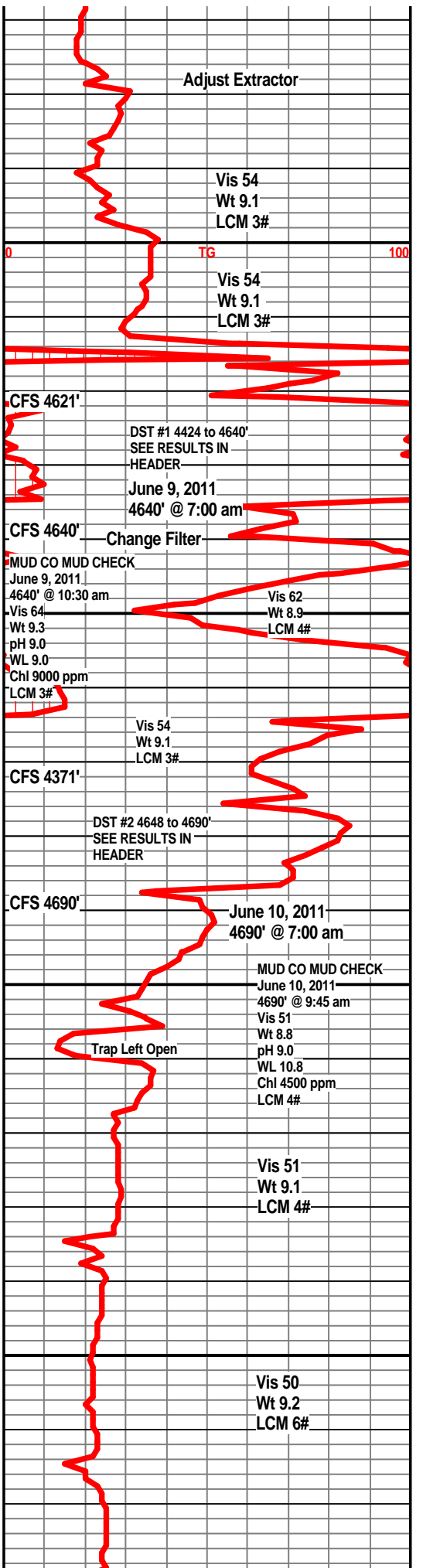
Dolo, grey-white, xln, dense, traces of chert, traces of grey-green shales, no odor, no shows.

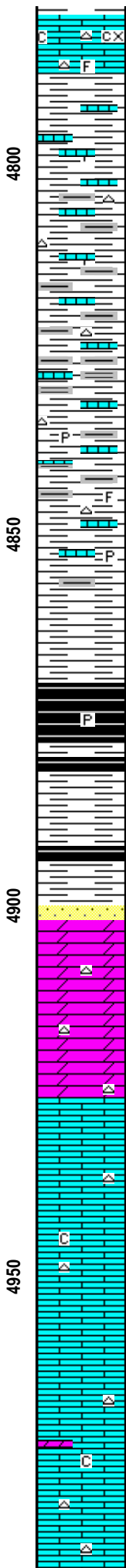
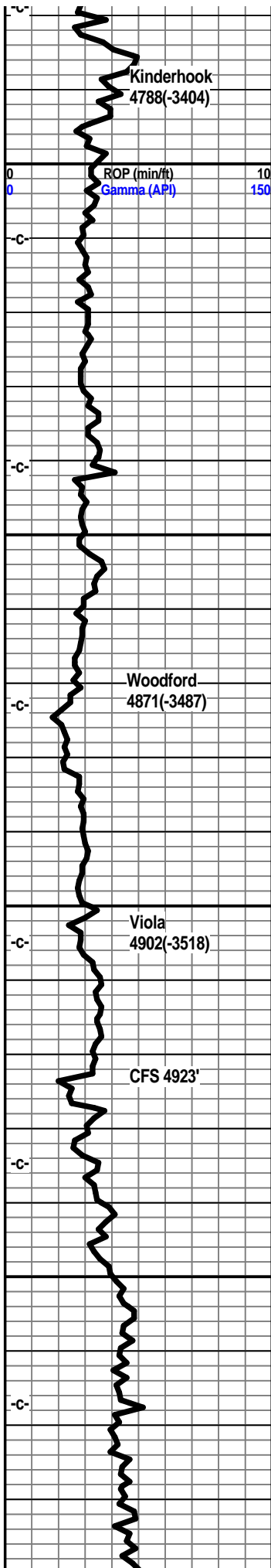
Dolo, tan-white, xln, dense, traces of tan chert, traces of light grey shale, no visible shows.

Dolo, tan, grey-white, xln dense, traces of white chert, some grey-green shales.

Dolo, grey-white, xln, dense, white chert, grey-green shales.

Dolo, grey-white, xln, dense, traces of white to trans chert, trace grey and green shales.





Limestone, cream-white to tan, fxln, foss in part, subchalky, trace of off-white chert.

Shale, pale green, traces of pyrite.

Shale, grey-green, abundant limestone, cream to tan, fxln, dense, traces of imbedded pyrite, traces of off-white chert with slight staining.

Shale, grey-green, abundant limestone, tan-white, fxln, dense, traces of glauconite, some off-white chert.

Shale, grey, abundant limestone, tan-white, xln, traces of pyrite, traces of tan-white cherts.

Shale, grey, abundant limestone, grey-white, tan, fxln, traces of pyrite, slightly foss., some scattered glauconite.

Shale, grey-green, splintery.

Shale, grey-black, pyritic, slightly carb.

Shale, grey, dark grey-black, carb, pyritic.

Shale, dark grey, coffee brown, pyritic.

Sandstone, clear to grey white, poorly sorted, sa to sr, gil, some shale inclusions, most well cemented, few friable, faint odor, slight show of oil under uv, scattered show, traces of pyrite.

Dolo, grey-white, xln, traces of off-white chert.

Dolo, grey-white, xln, traces of chert.

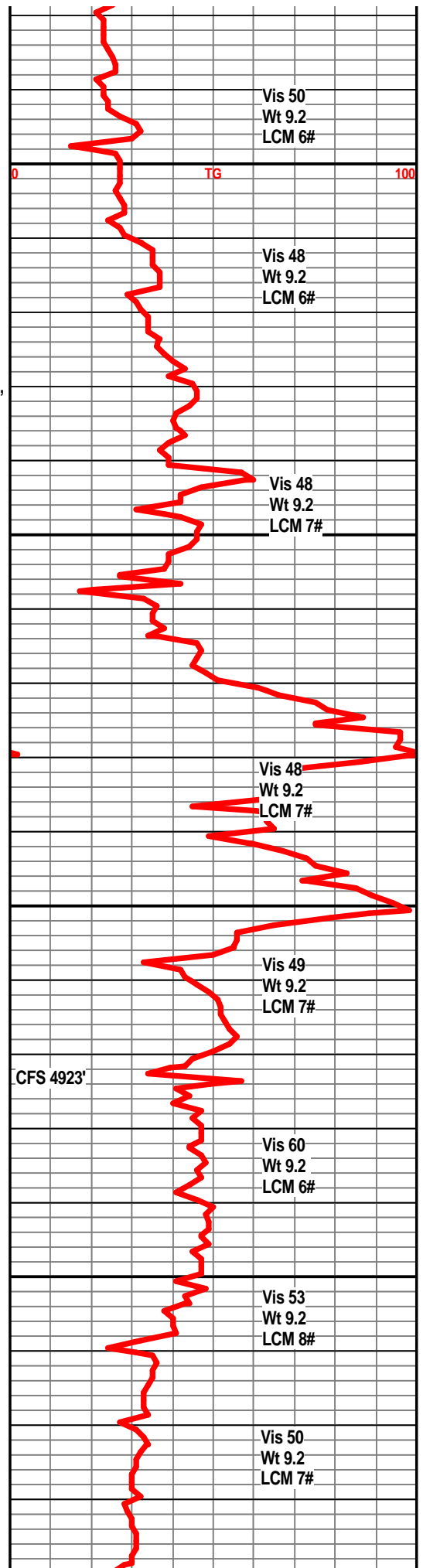
Dolo, light grey, xln, traces of white chert.

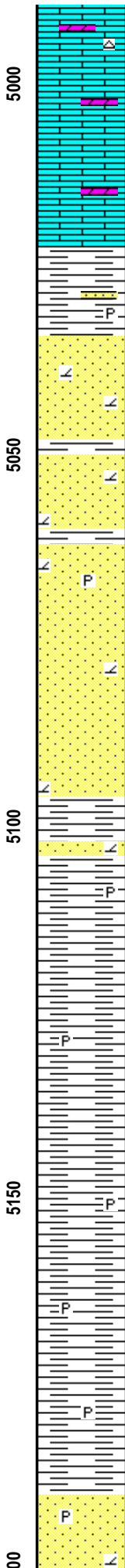
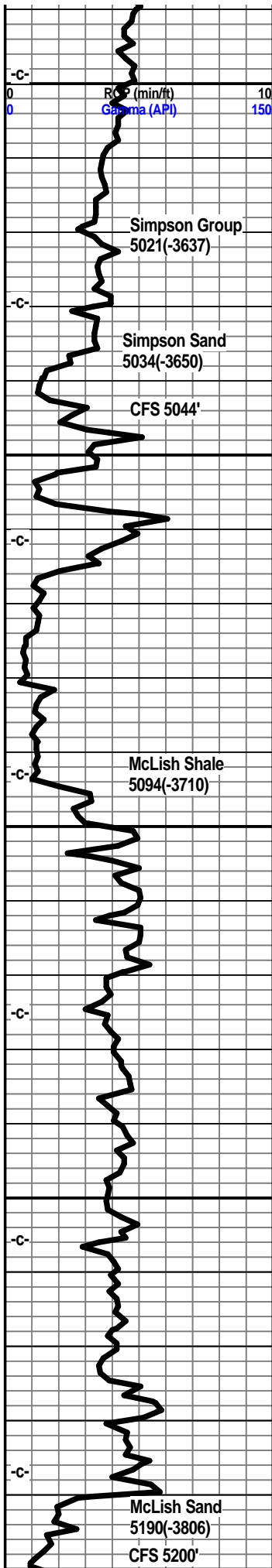
Limestone, cream-white to white, xln, traces of xln porosity, off-white chert, subchalky in part, questionable scattered staining.

Limestone, off-white, tan, xln, dense, traces of tan chert.

Limestone, off-white, tan-white, xln, dense, tan cherts.

Limestone, tan-white, xln dense, tan chert, sharp, specked, subchalky in part.





Limestone, tan-white, fxl, dense, tan sharp chert, slightly dolo in part.

Limestone, tan-white, tan, fxl, dense, dolo, tan sharp cherts.

Limestone, tan-white, fxl, dense, tan sharp cherts, slightly dolomitic.

Shale, dark green, firm, waxey, trace of sand clusters.

Sandstone, clear to white, SA to SR, friable in part, dolo in part, glauc, traces of light stain, no show free oil, no odor, no kick

Sandstone, clear to white, SA to SR, fair sorting, friable in part, traces of glauc, trace of pyrite, some green shales, some well cemented, dolo streaks. no visible shows, questionable light stain.

Sandstone, clear to frosted white, SA to SR, friable, good sorting, clean, some glauc, traces of pyrite, traces of green firm shales, no visible shows, no odor, no fluor.

Sandstone, clear to white, some tanish-white, SA to SR friable in part, friable, fair sorting, glauc, some gil, no visible shows, no odr, no fluor.

Shale, dark green, firm, waxey, traces of sand clusters imbedded, trace pyrite.

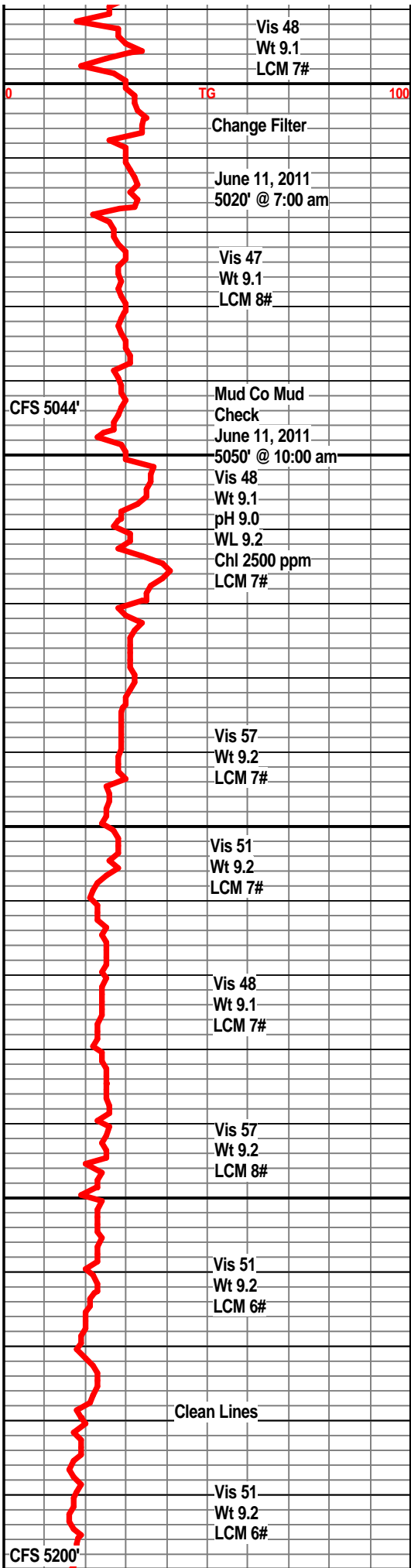
Shale, dark green, firm, traces of pyrite, few scattered sand clusters.

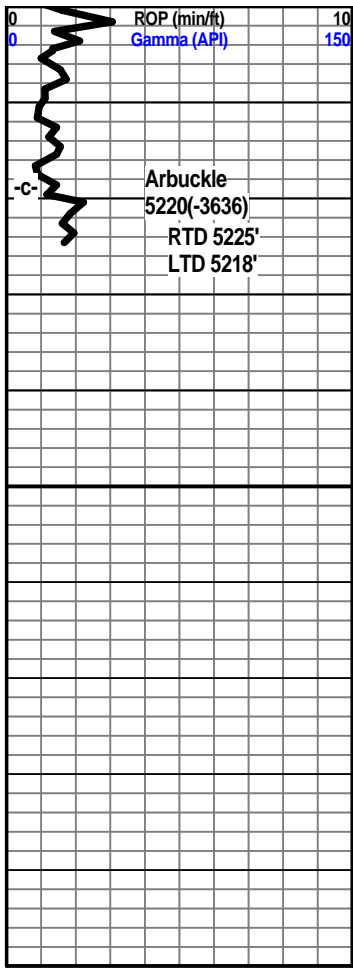
Shale, dark green, firm, traces of pyrite inclusions.

Shale, dark green, firm, waxey, pyrite.

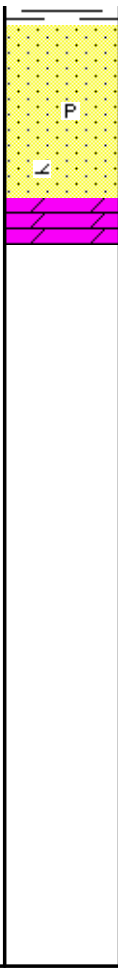
Shale, dark green, green, firm, traces of pyrite inclusions.

Sandstone, clear to frsted white, SA to SR, Friable, fair sorting, traces of glauc, some gil, dolo in part, n odor, no visible shows, traces of





52
5250
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pyrite.

Sandstone, clear to white, SA to SR, friable, some well cemented, fair sorting, trace glauc, trace pryite, dolomitic in part.

Dolomite, tan-white, xln, succ, dull fluor., no visible shows, no odor.

