



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1055179

Form ACO-1

June 2009

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
- ☐ 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: _____

1055179

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 <div style="display: flex; justify-content: space-between;"> Name Top Datum </div>
---	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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. <i>(Submit ACO-5)</i> <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

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
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 04, 2011

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

Re: ACO1
API 15-007-23632-00-00
PLATT GU 3
SE/4 Sec.09-35S-12W
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. 040633

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

med the code

DATE <u>1-6-14</u>	SEC <u>9</u>	TWP. <u>35 s</u>	RANGE <u>12 w</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 am</u>	JOB FINISH <u>1:30 am</u>
LEASE <u>Platt 60</u>	WELL # <u>3</u>	LOCATION <u>1 1/2 E of Hardtner</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>South into</u>			

CONTRACTOR H-2 drilling RB#3

TYPE OF JOB surface

HOLE SIZE 14 1/4 T.D. 250'

CASING SIZE 10 3/4 DEPTH 224'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 350 psi MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20'

PERFS.

DISPLACEMENT 20 bbls H2O

EQUIPMENT

PUMP TRUCK CEMENTER mtt Thimesh

414/302 HELPER Ron Gilley

BULK TRUCK

356/250 DRIVER Jason Thimesh

BULK TRUCK

DRIVER

REMARKS:

Back circulation with Rts

mix 230 sx A + 3% cc + 2% gel

displace 20 bbls H2O

leave 20' cement in casing

cement did circulate SHUT IN.

CHARGE TO: Woolsey

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 MIKE THARP

SIGNATURE [Signature]

OWNER Woolsey operating

CEMENT

AMOUNT ORDERED 230 sx class A +

3% cc + 2% gel

COMMON A 230 sx @ 15 45 3553 50

POZMIX @

GEL 5 sx @ 20 80 104 00

CHLORIDE 8 sx @ 58 80 465 60

ASC @

WELL FILE

Regulatory Correspondence @

Drilling / Comp Workovers @

Tests / Meters Operations @

HANDLING 243 @ 2 40 583 00

MILEAGE 243/-10/20 486 00

FEB 21 2011 TOTAL 5192 30

SERVICE

DEPTH OF JOB 224'

PUMP TRUCK CHARGE 1018 00

EXTRA FOOTAGE @

MILEAGE 20 @ 7 00 140 00

MANIFOLD @

TOTAL 1158 00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES [Crossed out]

DISCOUNT IF PAID IN 30 DAYS [Crossed out]

ALLIED CEMENTING CO., LLC. 040637

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge

DATE <u>1-17-11</u>	SEC <u>9</u>	TWP. <u>35S</u>	RANGE <u>12W</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30pm</u>	JOB FINISH <u>6:30pm</u>
LEASE <u>Plot</u>	WELL # <u>6U</u>	LOCATION <u>Hardner, KS, 1 1/2 East South 10th</u>				COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR H-2 drilling Rig #3
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 5510'
CASING SIZE 5 1/2 DEPTH 5494
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 41'
CEMENT LEFT IN CSG. 41'
PERFS.
DISPLACEMENT 131 bbls 2% KCL

EQUIPMENT
PUMP TRUCK CEMENTER not Thimesch
360/265 HELPER Jason Thimesch
BULK TRUCK
356/250 DRIVER Raymond R.
BULK TRUCK
DRIVER

REMARKS:

BK Circ. with Rig pump ball through
mix 25sx 6046 4 for Rat hole
mix 50sx 6046 4 for scavenger
mix 150 sx class H. Shut down wash pump & lines
drop 131 bbls 2% KCL bump plug 1200-1900, plug held

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 MIKE THARP

SIGNATURE Mike Tharp

OWNER Woolsey operating

CEMENT
AMOUNT ORDERED 75 sx 60:40:4% gel
150 sx class H + 10% Gypseal + 10% salt
+ 6" Kolseal + .8% FL 160 + 1/4" Floseal

COMMON	<u>A</u>	<u>45 sx</u>	@ <u>15 41</u>	<u>695 25</u>
POZMIX		<u>30 sx</u>	@ <u>8 00</u>	<u>240 00</u>
GEL		<u>3 sx</u>	@ <u>20 20</u>	<u>62 40</u>
CHLORIDE			@	
ASC			@	
Class H		<u>150 sx</u>	@ <u>16 75</u>	<u>2512 50</u>
Gypseal		<u>14 sx</u>	@ <u>29 20</u>	<u>408 80</u>
Salt		<u>16 sx</u>	@ <u>12 00</u>	<u>192 00</u>
Kolseal		<u>900 #</u>	@ <u>.89</u>	<u>801 00</u>
FL-160		<u>112.8 #</u>	@ <u>13. 30</u>	<u>1500 24</u>
Floseal		<u>37.5 #</u>	@ <u>2.50</u>	<u>93 75</u>
Clapro		<u>13 Gals</u>	@ <u>31 25</u>	<u>406 25</u>
			@	
HANDLING		<u>280</u>	@ <u>2. 40</u>	<u>672 00</u>
MILEAGE	<u>280 x .10 / 20</u>			<u>560 00</u>
TOTAL				<u>8144 19</u>

SERVICE

DEPTH OF JOB 5494'
PUMP TRUCK CHARGE 2185 00
EXTRA FOOTAGE @
MILEAGE 20 @ 7 00 140 00
MANIFOLD @
@
@

TOTAL 2325 00

PLUG & FLOAT EQUIPMENT

5 1/2
1-AFU float shoe @ 214 20
1-Latch down plug @ 163 80
11-turbosizers @ 40 60 446 60
28-Scraper bars @ 23 24 670 32
@

TOTAL 1494 92

SALES TAX (If Any)

TOTAL CHARGES 9969 51

DISCOUNT IF PAID IN 30 DAYS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co.LLC

125 N.Market, Ste.1000
Wichita Ks.67202

ATTN: Scott Alberg

Platt Gas Unit#3

9-35s-12w Barber Ks.

Job Ticket: 041601

DST#: 1

Test Start: 2011.01.14 @ 01:50:44

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:16:14

Time Test Ended: 11:35:29

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 4763.00 ft (KB) To 4918.00 ft (KB) (TVD)

Reference Elevations: 1428.00 ft (KB)

Total Depth: 4918.00 ft (KB) (TVD)

1417.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8167 Inside

Press @RunDepth: 106.00 psig @ 4764.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.14

End Date:

2011.01.14

Last Calib.: 2011.01.14

Start Time: 01:50:49

End Time:

11:35:29

Time On Btm: 2011.01.14 @ 04:11:59

Time Off Btm: 2011.01.14 @ 08:49:29

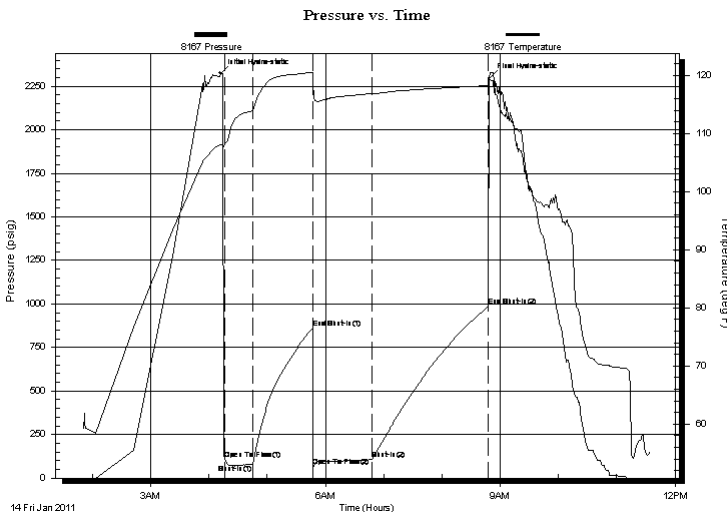
TEST COMMENT: IF:Strong blow . B.O.B. in 3 mins.GTS in 13 mins.(see gas flow report)

IS:No blow .

FF:Strong blow . (sae gas flow report)

FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2323.78	108.07	Initial Hydro-static
5	109.65	108.17	Open To Flow (1)
34	80.88	113.99	Shut-In(1)
95	863.08	120.51	End Shut-In(1)
96	68.12	118.96	Open To Flow (2)
157	106.00	116.89	Shut-In(2)
276	985.65	118.25	End Shut-In(2)
278	2299.07	120.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GCM 7%g 93%m	0.30
120.00	SO&GCM 1%o 9%g 90%m	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	5.00	30.78



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co.LLC

Platt Gas Unit#3

125 N.Market,Ste.1000
Wichita Ks.67202

9-35s-12w Barber Ks.

Job Ticket: 041601

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.01.14 @ 01:50:44

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:

3000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GCM 7%g 93%m	0.295
120.00	SO&GCM 1%o 9%g 90%m	0.590

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co.LLC

Platt Gas Unit#3

125 N.Market, Ste.1000
Wichita Ks.67202

9-35s-12w Barber Ks.

Job Ticket: 041601

DST#: 1

ATTN: Scott Alberg

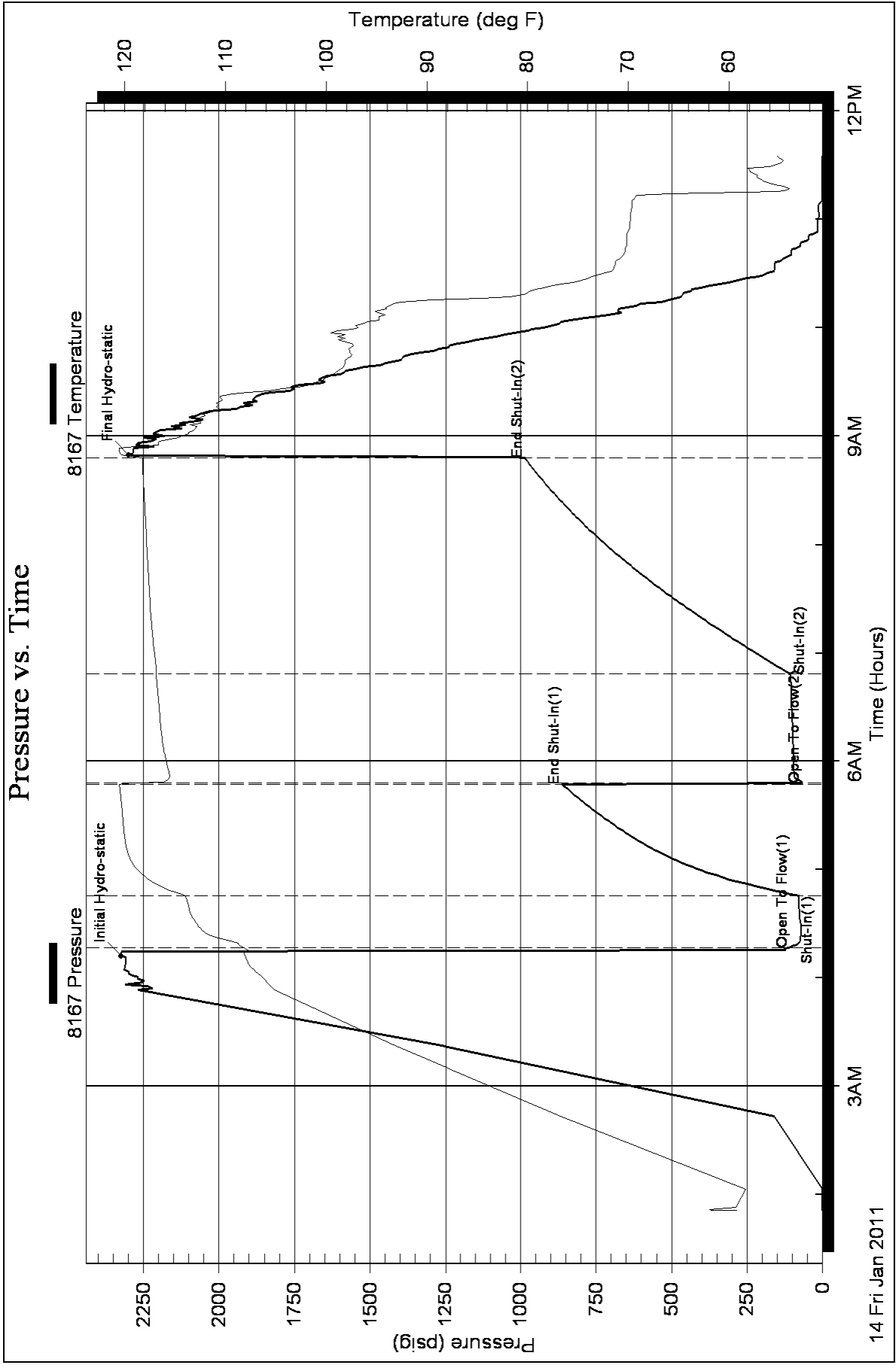
Test Start: 2011.01.14 @ 01:50:44

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	20	0.25	3.00	27.60
1	30	0.25	3.50	28.40
2	10	0.25	5.00	30.78
2	20	0.25	3.00	27.60
2	30	0.25	1.00	24.43





Woolsey Operating Company, LLC

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

Well Name: Platt GU #3
Location: S/2 NE SE
License Number: API: 15-007-23632-00-00
Spud Date: January 6, 2011
Surface Coordinates: 1650' FSL, 660' FEL Section 9-Twp 35 South - Rge 12 West
Bottom Hole Coordinates: Vertical Hole
Hartner
Region: Barber County, Kansas
Drilling Completed: January 16, 2011
Ground Elevation (ft): 1419
K.B. Elevation (ft): 1428
Logged Interval (ft): 4300 To: 5510
Total Depth (ft): 5510
Formation: McLish Shale
Type of Drilling Fluid: Chemical Mud, Displace at 3400'
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Woolsey Operating Company, LLC
Address: 125 N. Market, Suite 1000
Wichita, KS 67202

GEOLOGIST

Name: W. Scott Alberg
Company: Alberg Petroleum, LLC
Address: 609 Meadowlark Lane
Pratt, Kansas 67124

FORMATION TOPS

	SAMPLE TOPS	LOG TOPS
HUSHPUCKNEY SHALE	4601(-3173)	4596(-3168)
B/KC	4649(-3233)	4644(-3228)
PAWNEE	4748(-3320)	4645(-3317)
CHEROKEE GROUP	4796(-3368)	4792(-3364)
CHEROKEE SAND	4825(-3397)	4818(-3390)
MISSISSIPPIAN	4846(-3418)	4841(-3413)
COMPTON LIMESTONE	5116(-3688)	5114(-3686)
KINDERHOOK SHALE	5136(-3708)	5135(-3707)
WOODFORD SHALE	5212(-3784)	5210(-3782)
MISNER SAND	5235(-3807)	5232(-3804)
VIOLA	5266(-3838)	5263(-3835)
SIMPSON GROUP	5380(-3952)	5374(-3946)
SIMPSON WILCOX	5393(-3965)	5388(-3960)
MCLISH SHALE	5466(-4038)	5459(-4031)
MCLISH SAND	NDE	NDE
RTD	5510(-4082)	
LTD		5509(-4081)

COMMENTS

Surface Casing: Set joints 10 3/4" at 223' with 230 sxs Class A, 2% gel, 3% cc, plug down at 1:30 am on January 7, 2011. Cement did Circulate.

Production Casing: Ran 5 1/2" Casing.

Deviation Surveys: 224' 3/4, 1028' 1 3/4, 1249' 1/2, 1738' 1, 2269 1/2, 2745' 1, 3191' 3/4, 3700 1/4, 3794 1/4, 3985' 1, 4142' 1 1/2, 4363 1 1/4, 4615' 2, 4709' 3/4, 4918" 1 3/4, 5510'

Contractor Bit Record: 1- 14 3/4" out at 224'.

2- 7 7/8" out at RTD..

Gas Detector: Woolsey Operating Company, Trailer #2

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: Ran 1 DST By Trilobite Testing. See Results Below.

Logged By Superior Well Services, Inc

LTD 5509'

DSTs

DST #1 4763 to 4918' Times 30-60-60-120

Strong Blow BOB in 3 minutes, GTS in 13 Minutes(see gas below). ISI No blow Back; Second Opening, Strong Blow GTS, FSI No Blow Back.

**1st Opening: 20 min 26 mcfpd
30 min 27 mcfpd**

**2nd Opening 10 min 29 mcfpd
20 min 26 mcfpd
30 min 23 mcfpd
40 min TSTM
50 min TSTM
60 Min TSTM**

Recovery: 60' GCM(7% Gas, 93% Mud)

120' SO&GCM(1% Oil, 9% Gas, 90% Mud)

Pressures: IHP 2324# FHP 2299#

IFP 110-81# FFF 68-106#

ISIP 863# FSIP 986#

CREWS

H2 Drilling Rig #3

Tool Pusher - Randy Smith

Drillers - Mark Staats

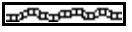
Gary Axtell

Martin Tinoco

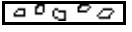
ROCK TYPES



Anhy



Bent



Brec



Cht



Clyst



Coal



Congl



Sdy dolo



Shy dolo



Dol



Gyp



Sdy lmst



Lmst



Mrlst



Salt



Shale



Slstst



Ss



Black sh



Gry sh



Shale











Shyslts



Sltysh

MINERAL

- | | |
|---|----------|
|  | Anhy |
|  | Arg |
|  | Bent |
|  | Bit |
|  | Brecfrag |
|  | Calc |
|  | Carb |
|  | Chtdk |
|  | Chtlit |
|  | Dol |
|  | Ferrpel |
|  | Ferr |
|  | Glau |
|  | Gyp |
|  | Marl |
|  | Nodule |
|  | Phos |
|  | Pyr |
|  | Salt |
|  | Sandy |
|  | Silt |










-  Chlorite
 -  Dol
 -  Sand
 -  Slty

FOSSIL

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

	Pelec
	Pellet
	Pisolite
	Plant
	Strom
	Fuss
	Oomoldic

STRINGER

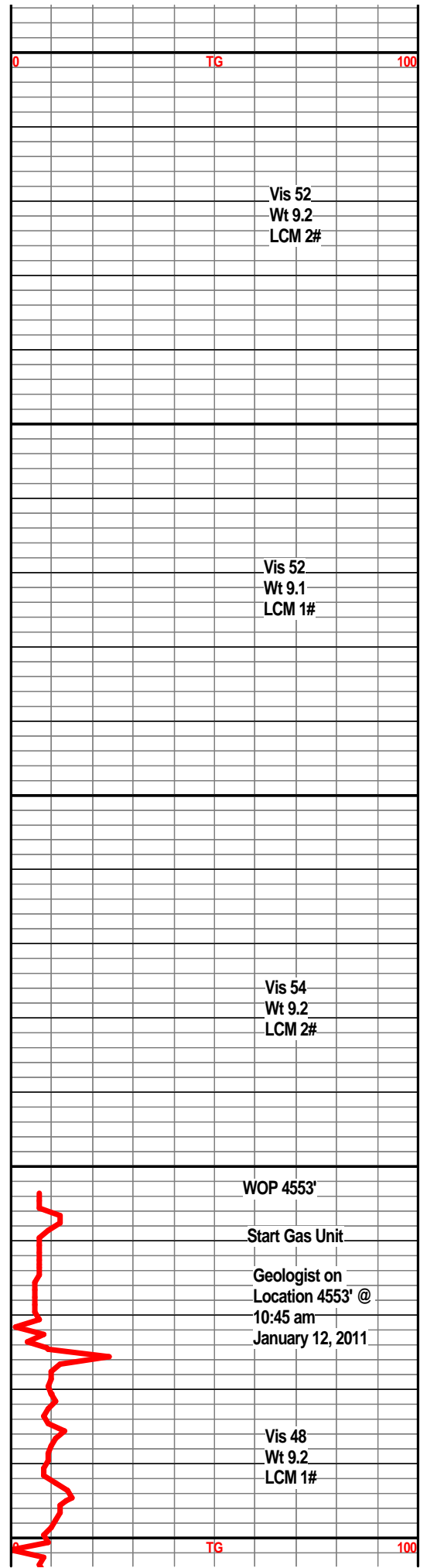
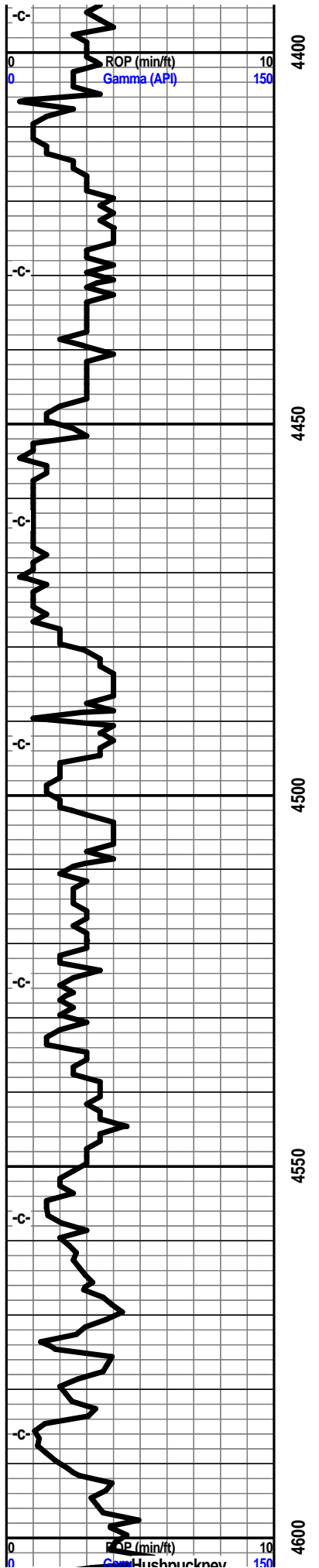
-  Anhy
 Arg
 Bent
 Coal
 Dol
 Gyp
 Ls
 Mrst
 Siltstrg
 Ssstrg
 Carbsh
 Clystn
 Dol

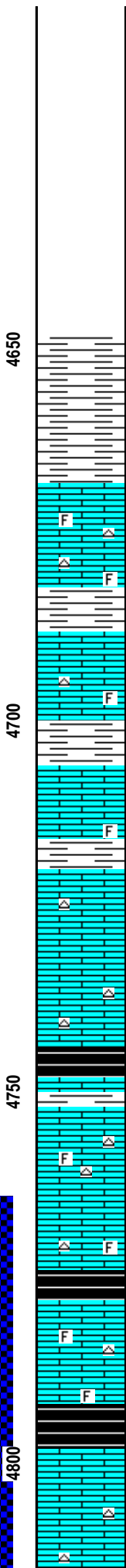
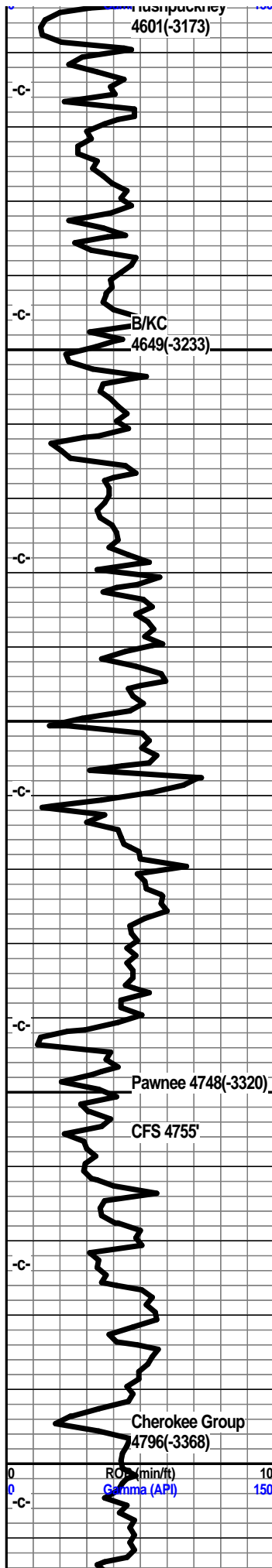
-  **Grysh**
 **Gryslt**
 **Lms**
 **Sandylms**
 **Sh**
 **Sltstn**

TEXTURE

- | | |
|-----------|-----------------|
| BS | Boudst |
| C | Chalkst |
| CX | Cryxln |
| E | Earthy |
| FX | Finexln |
| GS | Grainst |
| L | Lithogr |
| MX | Microxln |
| MS | Mudst |
| PS | Packst |
| WS | Wackest |

Curve Track 1		Depth	Lithology	Oil Shows	Geological Descriptions	TG, C1-C5			
ROP (min/ft)	Gamma (API)					TG (units)	C1 (units)	C2 (units)	C3 (units)
		43			Daily Drilling Progress January 6, 2011 MIRT January 7, 2011 224' WOC January 8, 2011 1662' @ 7:00 am January 9, 2011 2468' @ 7:00 am January 10, 2011 3329' @ 7:00 am January 11, 2011 3962' @ 7:00 am January 12, 2011 4505' @ 7:00 am January 13, 2011 4755' @ 7:00 am January 14, 2011 4918' @ 7:00 am January 15, 2011 5101' @ 7:00 am January 16, 2011 5390' @ 7:00 am January 17, 2011 5510' @ 7:00 am Running 5 1/2" Casing	0	TG	Vis 70 Wt 9.2 LCM 1#	100
		4350						Survey 1 3/4 Vis 53 Wt 9.3 LCM 0#	





Shale, grey, Light Grey, silty

Limestone, crm-white, xln, dense, slightly foss, slightly cherty,

Shale, Light grey-green.

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

Shale, grey, dk grey

Limestone, cream to tan-white, xln slightly foss.

Shale, dk grey

Limestone, cream-tan, xln, sub chalky, traces of tan chert.

a/a

Shale, grey-black.

Limestone, cream-tan, xln, slight foss, poor porosity, no vis show.

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

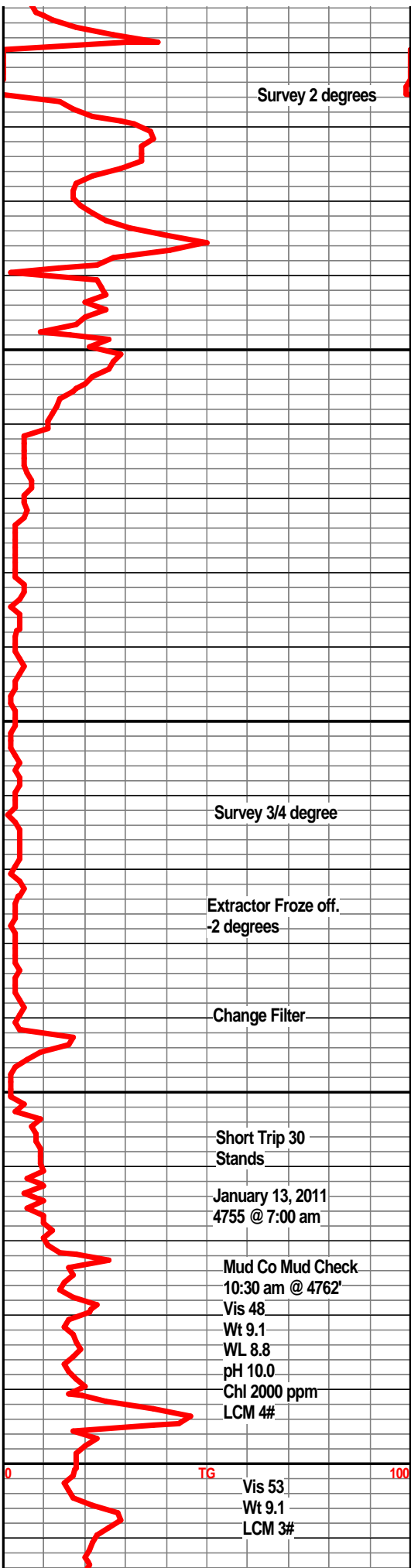
Shale, grey-black, slightly carb.

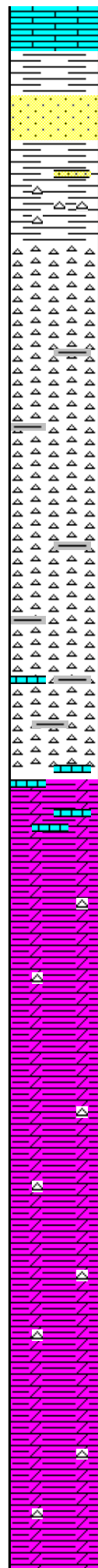
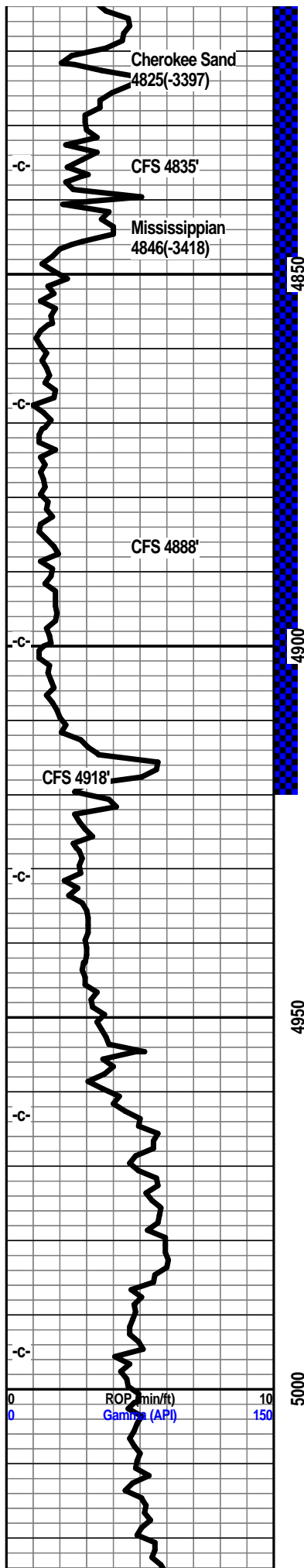
Limestone, tan-white, fxln, partly dense, slightly foss., trace tan chert.

Shale, grey-black, carb.

Limestone, cream-tan, off-white, xln, some tan chert.

Limestone, tan-white, xln, dense, trace tan chert,





sl. foss.

Shale, grey, dark grey.

Sst, tan, grey, lt. grey, fine grained, angular grains, friable, some well cemented, very faint flour, slight show gas bubbles, no visible show of free oil, some scattered light brown staining, some clusters with good staining.

Shale, grey, green, dark green, some reds, trace chert.

Chert, white to off-white, opaque, translucent, some imbedded fossils, fresh, sharp, some weathered with light brown staining on edges, very faint odor, dull fluor., trace of gas bubbles.

Chert, white, off-white, some pale green, sharp, some weathered with small pp porosity, fossil frags imbedded, light brown scattered staining, some dk residual staining, very faint odor, trace of gas bubbles, dull fluor., good gas indication.

Chert, off-white, tan-white, sharp, increasing amounts of weathering, slight show of free oil, dull fluor, gas bubbles more evident, more even bwn staining, faint odor, good gas indication.

Chert, off-white, tan-white, opaque, some tan ls frags, chert sharp fresh with some weathering, slight show of free oil w/ few gas bubbles, dull fluor.

Chert a/a with more tan-white limestone and grey shale.

Limestone, tan-white, fxln, abundant chert, dark grey-green shales, Very dolomitic.

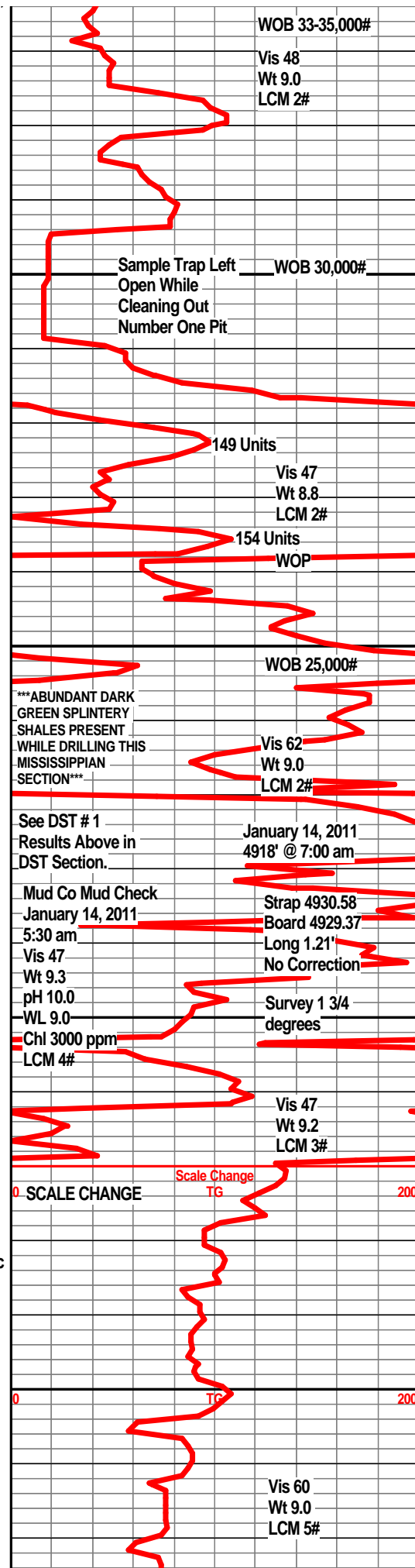
Dolo., Light grey, to tan or light brown, xln, dark grey silty shales, calcitic, some weathered and fresh chert, some very light staining on weathered cherts, no odor.

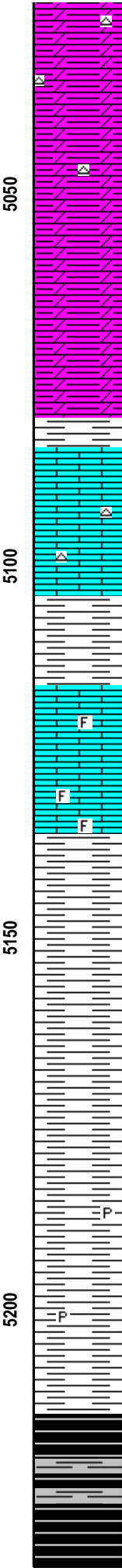
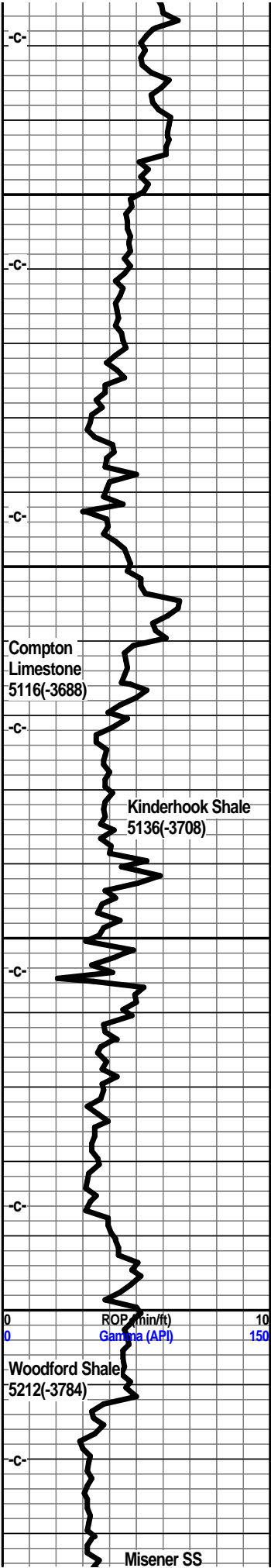
Dolo, Light Grey, xln, dark grey calcitic shales with traces of weathered cherts, no odor

Dolo, Light grey, some tan, xln, grey silty calcitic shales, no odor

Dolo, Light grey, xln, grey silty calcitic shales, firm, traces of weathered chert, no visible shows.

Dolo, a/a, increasing amounts of shales.





Dolo., Light rey to tan grey, xln, grey calcitic shales, traces if chert.

Dolo., Light grey to grey, xln, silty, grey shales, traces of chert.

Limestone, off-white to tan, xln, some very chalky soft, trace of chert.

Shale, green, Light grey.

Limestone, cream to grey-white, xln, dense, mottled in part, sub-chalky, trace foss.

Shale, grey, dark grey.

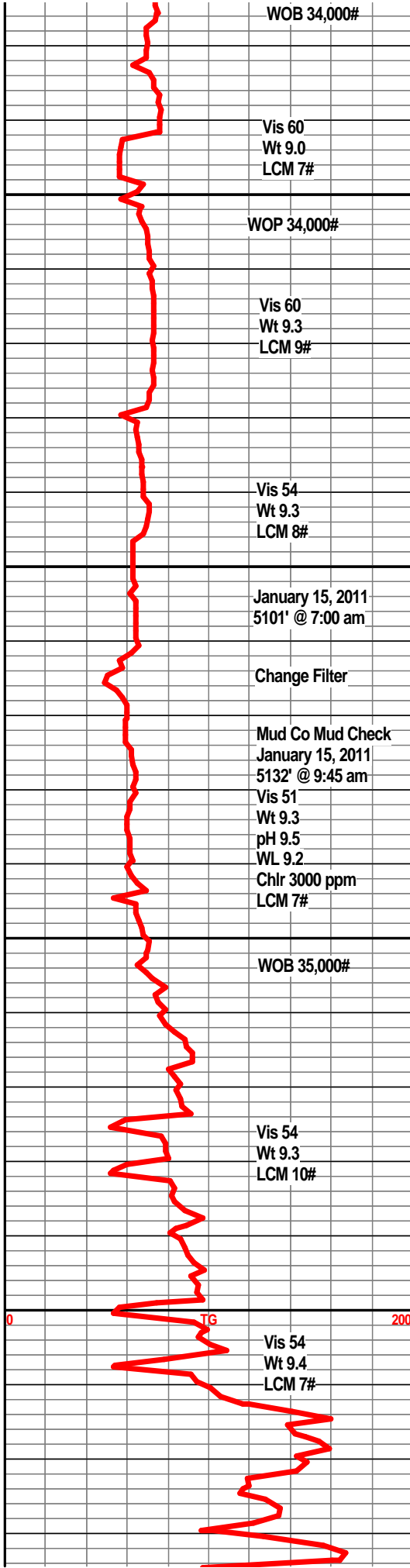
Shale, Grey, dark grey, splintery, firm.

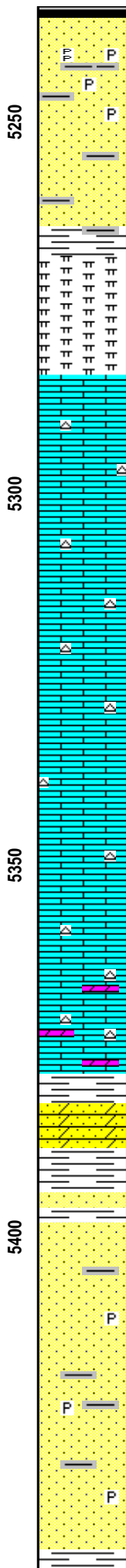
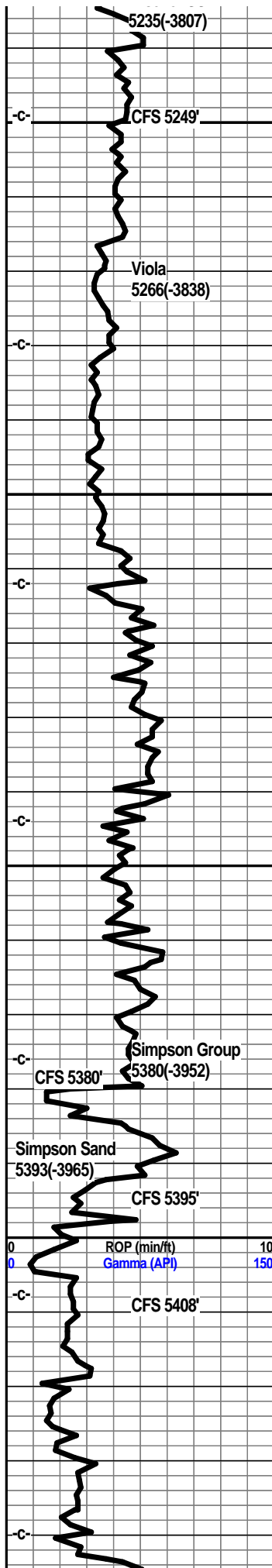
Shale, grey, dark grey, silty.

Shale, grey, dark grey, traces of pyrite.

Shale, Grey-black to a coffee brown, carb.

Shale, Grey-black, brown, show bleeding gas, carb.





Sst., clear to grey-white, subangular, poorly sorted, well cemented, traces of pyrite inclusions, no odor, no flour., no visible shows. Few pcs friable.

A/a, except tight with a spotty flour and slight show of oil in few clusters, very tight, no odor. very well cemented.

Shale, pale green to a dark green.

Dolo, light grey, soft, very fine grained.

Limestone, white to off-white, xln, chalky, traces of white chert, no vis por.

Limestone, off-white, light grey, mxln, traces of off-white chert, chalky in part.

Limestone, cream-tan, off-white, fxln, dense, tan cherts, sharp.

Limestone, tan-whie, fxln, dense, cherty.

Limestone, tan-white, fxln, fine grained, slight sandy texture, tan cherts, sharp.

Limestone, tan-white, some dark brown, xln, sandy in part, dolomitic in part, tan cherts, sharp, some dark green shales, trace of pyrite, no visible shows, no flour., no odor.

Dolomite, tan-brown, xln, very sandy texture, some trace pp porosity, xln porosity, fair odor, light show of oil, show gas bubbles bleeding from samples, dark brown staining, gas increase, fair flour.

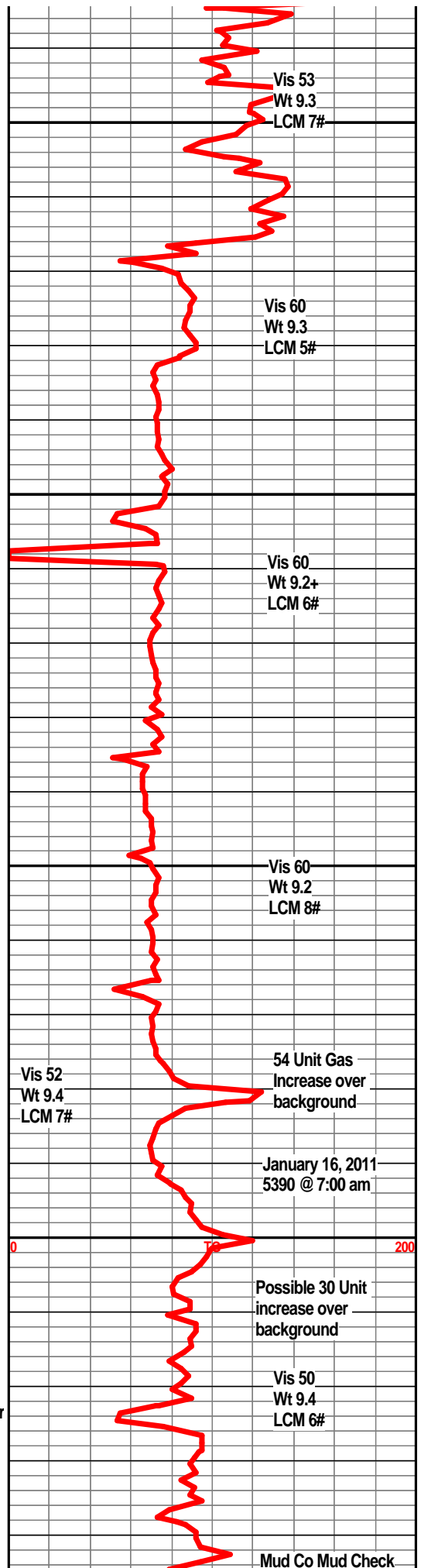
Shale, pale to dk green.

Sst, clear to frosted white med. grained, subangular, friable in part, very slight show of oil, sl. flour.,v. ft. odor

SSst,clear to frosted, med grained, subangular, poor sorting, friable in part, slight show of light oil, dull flour., faint odor, probable 30 unit increase in gas over background.

Sst. clear to frosted grains, subangular, friable for the most part, some well cementedd, glauc. flakes, some traces of pyrite inclusions, scattered flour., no odor.

Shale. green. waxev. firm.



Sst, grey, sandy, silty

Sst, grey-white to clear, med grained, angular, poorly sorted, glauc. flakes, traces of pyrite, some interbedded shale stringers, no visible shows, no odor, no gas increase.

a/a, abundant shales

Shale, dark green, firm, pyrite.

5462' @ 1:00 pm
Vis 52
Wt 9.3
pH 9.0
WL 10.4
Chl 2000 ppm
LCM 4#

