



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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 Bbbs.	Gas Mcf	Water Bbbs.	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 (Specify) _____ <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

June 30, 2011

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

Re: ACO1
API 15-007-23655-00-00
MILLER C 2
NW/4 Sec.10-35S-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 PATTIOSSON

ALLIED CEMENTING CO., LLC. 040044

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Med. Clinic Lubec, KS

DATE <u>3-7-2011</u>	SEC. <u>10</u>	TWP. <u>35S</u>	RANGE <u>12W</u>	CALLED OUT <u>6:00 pm</u>	ON LOCATION <u>9:00 pm</u>	JOB START <u>9:30 pm</u>	JOB FINISH <u>10:00 pm</u>
LEASE <u>M. Miller C</u>		WELL # <u>2</u>	LOCATION <u>Herndon Cr 1 east</u>		COUNTY <u>Berner</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>3/4 north el. into</u>				

CONTRACTOR A2 #3
 TYPE OF JOB Surf ace
 HOLE SIZE 14 3/4 T.D. 218'
 CASING SIZE 10 3/4 DEPTH 202'
 TUBING SIZE 8 5/8 LT DEPTH 12'
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 20'
 PERFS. _____
 DISPLACEMENT 19 bbls fresh water

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 240 sy Class A + 30% add
20% gel

EQUIPMENT
 PUMP TRUCK CEMENTER Darin F
 # 414-302 HELPER Ron G
 BULK TRUCK
 # 364 DRIVER Carl B.
 BULK TRUCK
 # _____ DRIVER _____

WELL FILE

Regulatory Correspondence	_____	_____
<u>Drig</u> Comp Workovers	_____	_____
Tests / Meters Operations	_____	_____
COMMON <u>A 240 sy @ 15.45</u>	<u>3708.00</u>	
POZMIX _____	@ _____	
GEL <u>5 sy @ 20.80</u>	<u>104.00</u>	
CHLORIDE <u>8 sy @ 58.20</u>	<u>465.60</u>	
ASC _____	@ _____	
HANDLING <u>253 @ 2.40</u>	<u>607.20</u>	
MILEAGE <u>253 / 10 / 15</u>	<u>379.50</u>	
TOTAL		<u>5264.30</u>

REMARKS:

Pipes on bottom & broke circulation
Pump 3 bbls water shear, mix 240 sy
of cement, displace 19 bbls fresh water
Shut in, cement did circulate

SERVICE

DEPTH OF JOB <u>214'</u>		
PUMP TRUCK CHARGE <u>1018.00</u>		
EXTRA FOOTAGE _____	@ _____	
MILEAGE <u>30 @ 7.00</u>	<u>210.00</u>	
MANIFOLD _____	@ _____	
<u>Swager & Valve</u>	@ _____	
TOTAL		<u>1228.00</u>

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

PLUG & FLOAT EQUIPMENT

_____	@ _____	
_____	@ _____	
<u>none</u>	@ _____	
_____	@ _____	
_____	@ _____	
TOTAL		_____

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

PRINTED NAME X MIKE THARP

SIGNATURE X Mike Tharp

Thank you!!!

SALES TAX (If Any) _____
 TOTAL CHARGES 5264.30
 DISCOUNT 0.00 IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 040048

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Medicine Lodge, KS

DATE <u>3-17-2011</u>	SEC. <u>10</u>	TWP. <u>35S</u>	RANGE <u>12W</u>	3-16 CALLED OUT <u>10:00 pm</u>	3-17 ON LOCATION <u>12:30 AM</u>	3-17 JOB START <u>3:30 AM</u>	3-17 JOB FINISH <u>6:30 AM</u>
LEASE <u>M. Miller C</u>			WELL # <u>2</u>	LOCATION <u>H. Grattan, KS 1 east</u>		COUNTY <u>B. Greer</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)			<u>3/4 north, e into</u>				

CONTRACTOR H2 #3
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5480'
 CASING SIZE 5 1/2 DEPTH 5335'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 39'
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 128 bbls of 29% KCL water

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 755x 60:40:490601
1755x C1955 B + 10% G + 10% OSEIT
6# Kalseal + 8% FL160 + 1/4# Floseal
13551s Clepro
 COMMON 45 SX @ 15.45 693.25
 POZMIX 30 SX @ 8.00 240.00
 GEL 3 SX @ 20.80 62.40
 CHLORIDE @
 ASC @
H 175 SX @ 16.75 2931.25
Gypseal 17 SX @ 29.20 496.40
Salt 19 SX @ 12.00 228.00
Kalseal 1050 @ .89 934.50
FL-160 131.6 @ 13.30 1750.28
Floseal 43.75 @ 2.50 109.37
Clepro 13 Gals @ 31.25 406.25
 HANDLING 315 @ 2.40 756.00
 MILEAGE 315/20/.10 630.00
 TOTAL 9239.68

EQUIPMENT

PUMP TRUCK CEMENTER Darin F
 # 360-265 HELPER Tyson T
 BULK TRUCK
 # 421-252 DRIVER Raymond R
 BULK TRUCK
 # DRIVER

WELL FILE

Regulatory Correspondence
 Drig / Comp Workovers
 REMARKS: s / Meters Operations

Pipe on bottom & break circulation
 mix 255x for R4 hole, mix 505x 505x
 cement, mix 1755x fill cement, shut down
 wash pump & lines, Release plug, start displacement
 Lift pressure at 85 bbls, slow rate to
 3 bpm at 120 bbls, Bump plug at 128
 bbls 1,000-1200 psi, float did hold

SERVICE

DEPTH OF JOB 5335'
 PUMP TRUCK CHARGE 2185.00
 EXTRA FOOTAGE @
 MILEAGE 20 @ 7.00 140.00
 MANIFOLD @
Head rental @ 100.00
 TOTAL 2425.00

CHARGE TO: Woolsey Operating
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

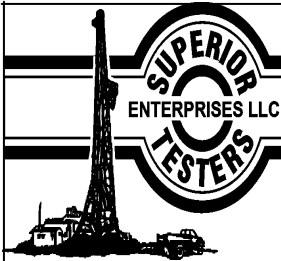
5 1/2
 1-BFU float shoe @ 214.20
 1-Latch Down plug @ 163.80
 12-Turbolizers @ 40.60 487.20
 24-Scratchers @ 23.94 574.56
 TOTAL 1439.76

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 ~~9239.68~~
 DISCOUNT ~~1000.00~~ IF PAID IN 30 DAYS

PRINTED NAME X MIKE THORP
 SIGNATURE X Mike Thorp

Thank you!!!



DRILL STEM TEST REPORT

woolsey Operating Company

Miller c # 2

125 North Market Suite 1000
Wichita, Kansas 67202-1729

10-35s-12w Barber

Job Ticket: 15776

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.03.14 @ 09:45:00

GENERAL INFORMATION:

Formation: **Cherokee-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-

Interval: 4742.00 ft (KB) To 4880.00 ft (KB) (TVD)

Reference Elevations: 1426.00 ft (KB)

Total Depth: 4880.00 ft (KB) (TVD)

1417.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8525

Inside

Press @ Run Depth: 1353.57 psia @ 4875.92 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.13

End Date:

2011.03.13

Last Calib.:

2011.03.14

Start Time: 09:45:00

End Time:

19:58:30

Time On Btm:

2011.03.13 @ 12:31:00

Time Off Btm:

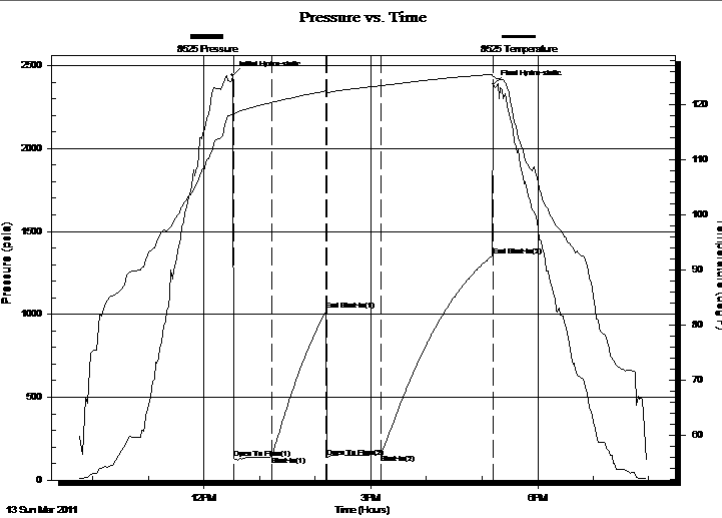
2011.03.13 @ 17:12:30

TEST COMMENT: 1st Opening 30 Minutes Fair blow built to the bottom of a 5 gallon bucket in 21 minutes

1st Shut-In 60 Minutes-w eak 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- Weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2442.64	118.34	Initial Hydro-static
1	130.28	118.03	Open To Flow (1)
43	141.20	120.42	Shut-In(1)
102	1025.04	122.51	End Shut-In(1)
102	135.47	122.19	Open To Flow (2)
161	153.70	123.48	Shut-In(2)
281	1353.57	125.52	End Shut-In(2)
282	2388.21	125.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface 55 minutes on 2nd flow	0.00
125.00	Drilling Mud	0.61
0.00	There w as a show of oil betw een the	0.00
0.00	Shut-In and Hydraulic tools	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

w oolsey Operating Company

Miller c # 2

125 North Market Suite 1000
Wichita, Kansas 67202-1729

10-35s-12w Barber

Job Ticket: 15776

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.03.14 @ 09:45:00

Tool Information

Drill Pipe:	Length: 4375.00 ft	Diameter: 3.80 inches	Volume: 61.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 286.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 358.00 ft	Diameter: 2.25 inches	Volume: 1.76 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 63.13 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4742.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	137.92 ft			
Tool Length:	166.92 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4714.00	
Shut-In Tool	5.00			4719.00	
Hydroic Tool	5.00			4724.00	
Jars	6.00			4730.00	
Safety Joint	2.00			4732.00	
Packer	5.00			4737.00	29.00 Bottom Of Top Packer
Packer	5.00			4742.00	
Perforations	10.00			4752.00	
Change Over Sub	0.75			4752.75	
Drill Pipe	94.42			4847.17	
Change Over Sub	0.75			4847.92	
Perforations	27.00			4874.92	
Recorder	1.00	8525	Inside	4875.92	
Recorder	1.00	95712	Outside	4876.92	
Bullnose	3.00			4879.92	137.92 Bottom Packers & Anchor

Total Tool Length: 166.92



DRILL STEM TEST REPORT

FLUID SUMMARY

w oolsey Operating Company

Miller c # 2

125 North Market Suite 1000
Wichita, Kansas 67202-1729

10-35s-12w Barber

Job Ticket: 15776

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.03.14 @ 09:45:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 3500.00 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
0.00	Gas to surface 55 minutes on 2nd flow	0.000
125.00	Drilling Mud	0.615
0.00	There w as a show of oil betw een the	0.000
0.00	Shut-In and Hydrolic tools	0.000

Total Length: 125.00 ft Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8525

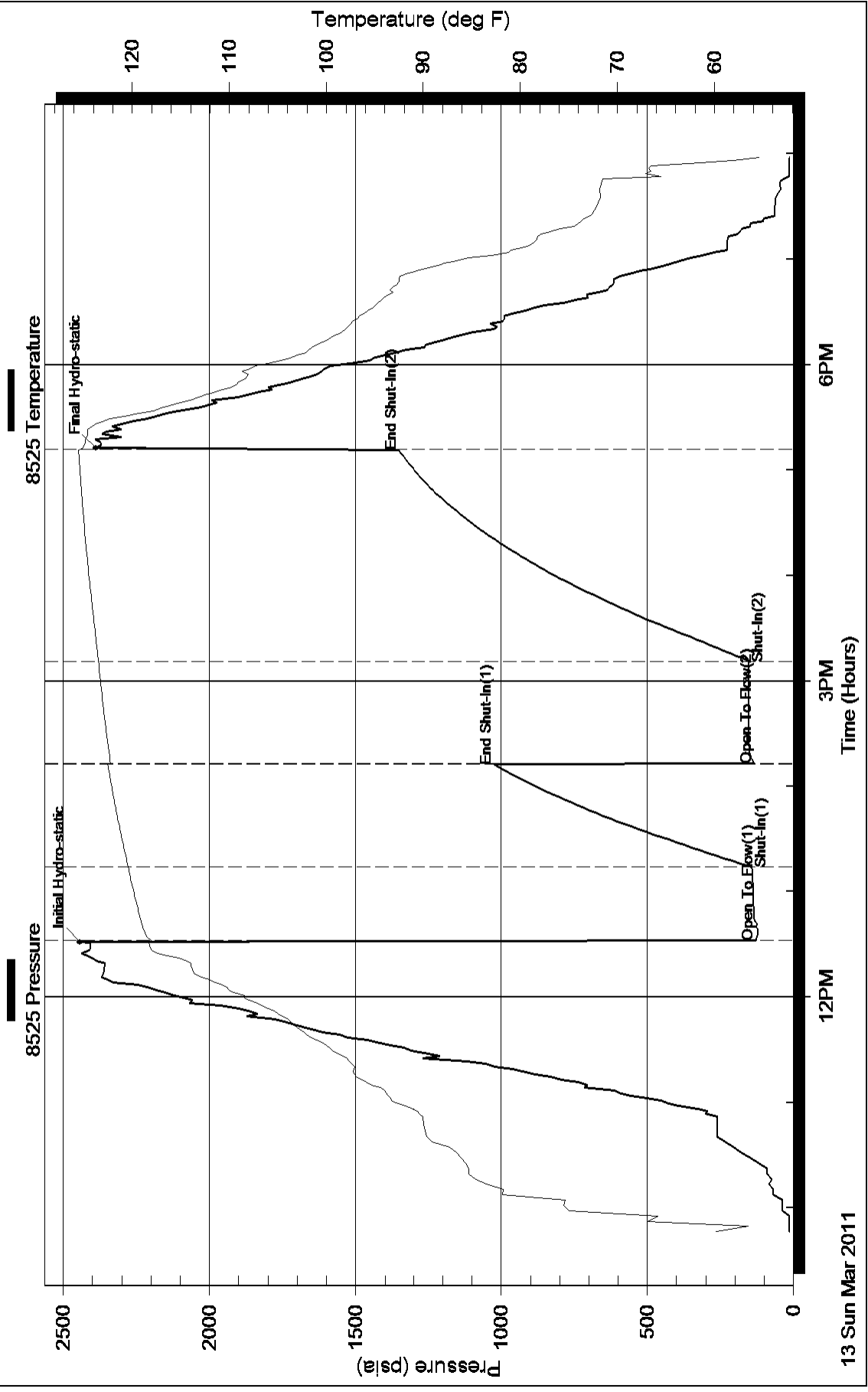
Inside

Woodsey Operating Company

10-35s-12w Barber

DST Test Number: 1

Pressure vs. Time



13 Sun Mar 2011



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Miller #C-2

Location: E/2 NW NW NW

License Number: API: 15-007-23655-00-00

Spud Date: March 7, 2011

Surface Coordinates: 330' FNL, 595' FWL Section 10-Twp 35 South - Rge 12 West

Hartner Pool

Bottom Hole Coordinates: Vertical Hole

Region: Barber County, Kansas

Drilling Completed: March 16, 2011

Ground Elevation (ft): 1417

K.B. Elevation (ft): 1426

Logged Interval (ft): 4200 To: 5480 Total Depth (ft): 5480

Formation: McLish Shale

Type of Drilling Fluid: Chemical Mud, Displace at 3350'.

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	4588(-3162)	4586(-3160)
B/KC	4637(-3211)	4635(-3209)
PAWNEE	4733(-3307)	4732(-3306)
CHEROKEE GROUP	4780(-3354)	4778(-3352)
CHEROKEE SAND	4805(-3379)	4804(-3378)
MISSISSIPPIAN	4826(-3400)	4826(-3400)
KINDERHOOK SHALE	5105(-3679)	5106(-3680)
WOODFORD SHALE	5173(-3747)	5180(-3754)
MISNER SAND	5202(-3776)	5208(-3782)
VIOLA	5214(-3788)	5238(-2812)
SIMPSON GROUP	5352(-3926)	5354(-3928)
SIMPSON WILCOX	5365(-3939)	5368(-3942)
MCLISH SHALE	5446(-4020)	5442(-4016)
MCLISH SAND	NDE	NDE
RTD	5480(-4054)	
LTD		5482(-4056)

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 214' with 240 sxs Class A, 2% gel, 3% cc, plug down at 10:15 pm on March 7, 2011. Cement did Circulate.

Production Casing: Ran 5 1/2" Casing.

Deviation Surveys: 218' 1/4, 1531' 1/4, 2073' 1/4, 2578 1/4, 3148' 1/4, 3752' 1/2, 3911' 1, 4102' 1/2, 4609' 1/2, 4880' 1, 5480' 1.

Contractor Bit Record: 1- 14 3/4" out at 218'.

2- 7 7/8" out at 4880'.

3 - 7 7/8" out at 5480'.

Gas Detector: Woolsey Operating Company, Trailer #2

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: Superior Testing Company

Logged By Superior Well Services, Inc

LTD 5482'

DSTs

DST #1 4742 to 4880' Times 30-60-60-120

IF - Fair Blow BOB in 21 minutes, weak 1/4 to 1/2" blow back

FF- Good blow, BOB 1 minute, GTS in 55 minutes, TSTM, weak 1/4 to 1/2" blow back.

IHP 2442#

FHP 2388#

IFP 130-141#

FFP 135-153#

ISIP 1025#

FSIP 1353#

(Both shut-in pressures still building)


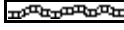
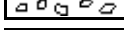
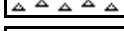
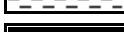








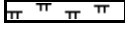






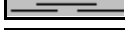
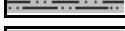

Recovery 125' Drilling Mud

(Slight show of oil between the shut-in tool and hydrolic tool)















































































CREWS

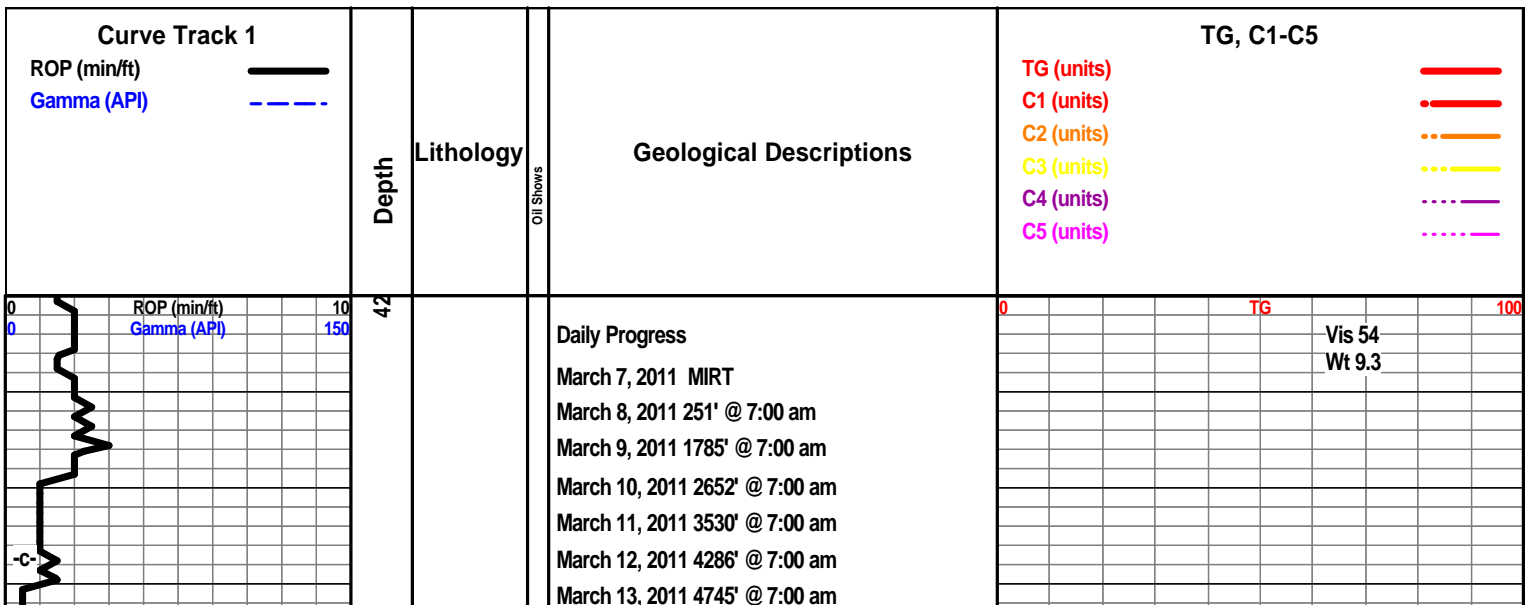
H2 Drilling Rig #3
 Tool Pusher - Randy Smith
 Drillers - Gary Axtell
 Cain Charles
 Luis Marquez

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  Sltsh
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ACCESSORIES

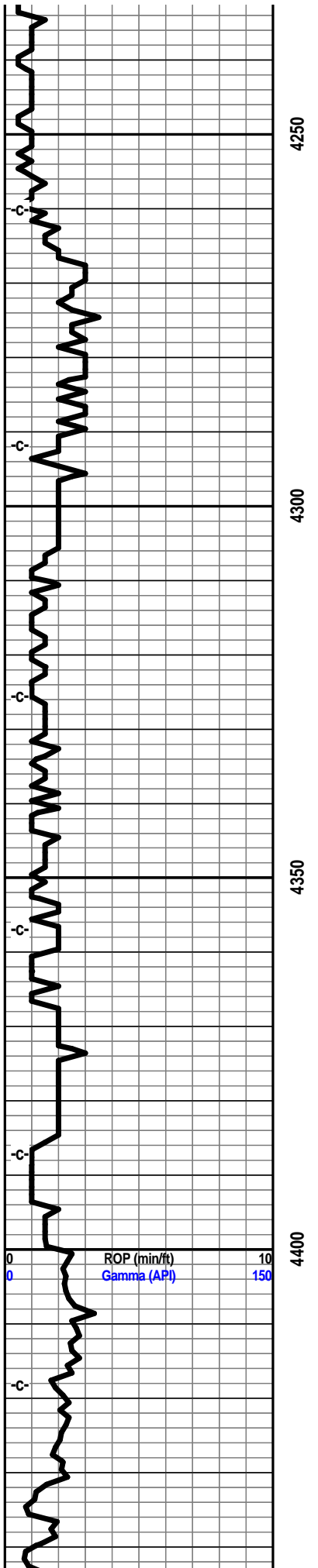
MINERAL  Anhy  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Ferrpel  Ferr  Glau  Gyp  Marl  Nodule  Phos  Pyr  Salt  Sandy  Silt	 Chlorite  Dol  Sand  Sltly FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pellet  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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March 14, 2011 4980' @ 7:00 am

March 15, 2011 5185' @ 7:00 am

March 16, 2011 5480' @ 7:00 am



4250

4300

4350

4400

ROP (min/ft)

Gamma (API)

10

150

3-12-2011
4286' @ 7:00 am

Vis 48
Wt 9.3

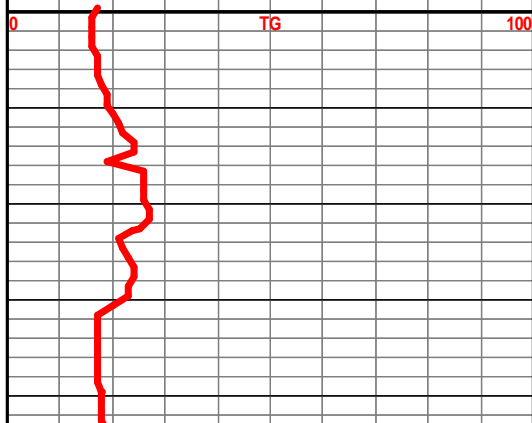
Geologist on
Location 4387'
10:15 am 3-12-2011

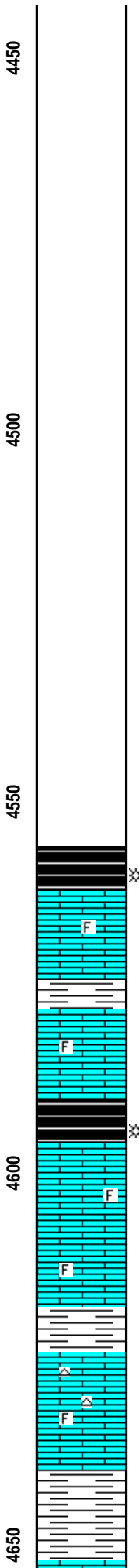
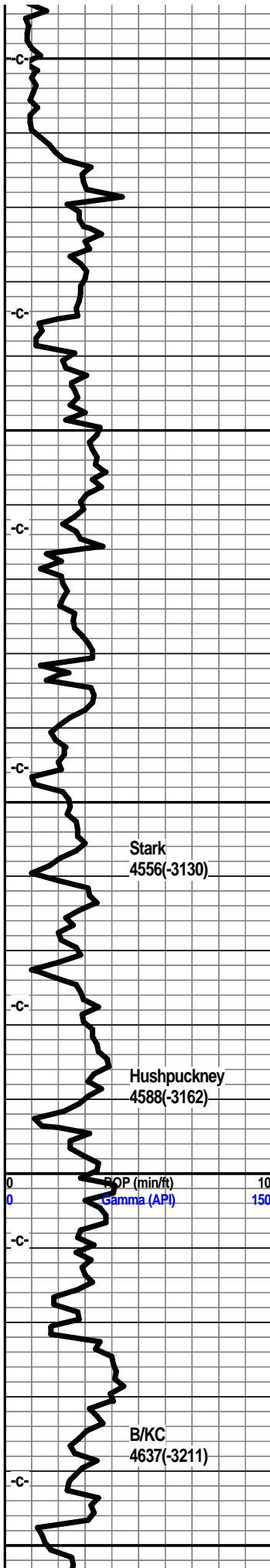
Start Gas Trailer

0

TG

100





Shale, grey-black, carb.

Limestone, cream-white, fxln, trace of foss., slightly chalky.

Shale, grey.

Limestone, cream, buff-white, xln, trace of grey chert.

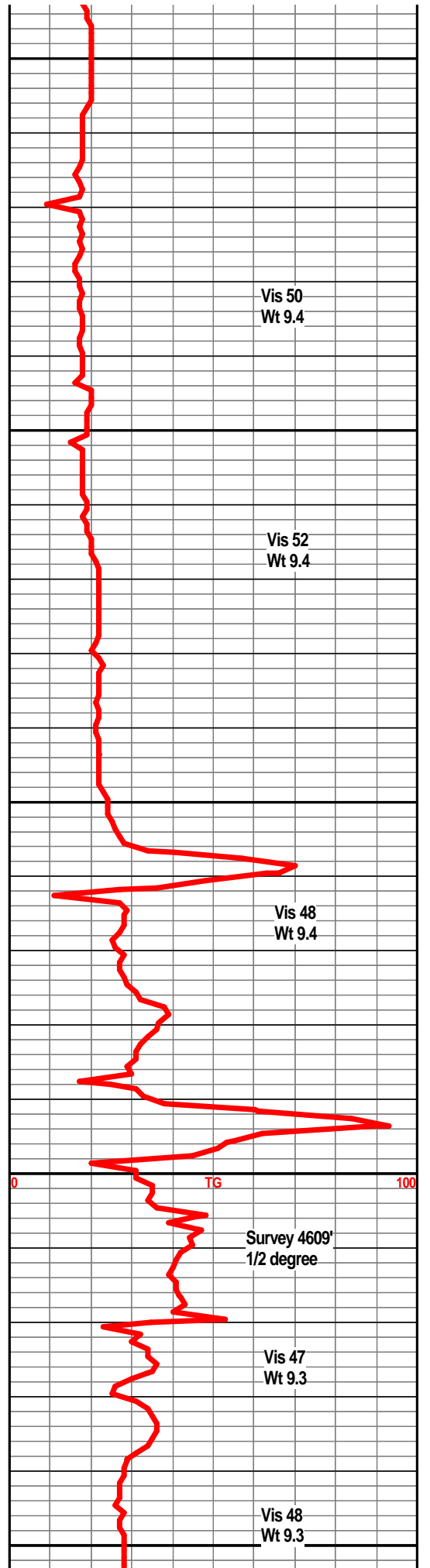
Shale, grey-black, carb.

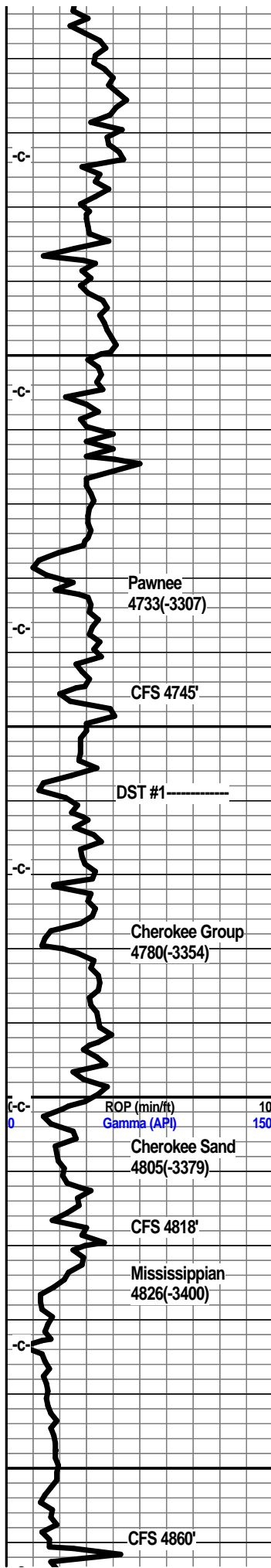
Limestone, cream, tan, fxln, partly dense, trace of foss, sub-chalky in part.

Shale, dark grey.

Limestone, tan-white, fxln, foss., sub-chalky, trace of grey cherts.

Shale, grey-green, slightly calcitic in part.





Limestone, cream, tan, xln, foss., in part, slightly shaley.

Shale, grey-green.

Limestone, cream, tan-white, fxln, slightly foss, shaley in part.

Shale, grey-green.

Limestone, cream, tan, xln, dense, slightly foss, traces of chert.

Limestone, tan, buff-white, xln, shaley towards base, slightly foss, trace of grey chert.

Shale, grey-black, carb.

Limestone, tan-white, cream, xln, slightly foss, trace xln porosity, dull fluor., no visible shows.

Limestone, cream-white, xln, partly dense, sub-chalky, foss. in part.

Shale, grey-black.

Limestone, cream, tan, xln, slightly foss.

Shale, grey-black, carb.

Limestone, tan, some buff-tan, fxln, dense, slightly foss.

Shale, grey-black, carb in part.

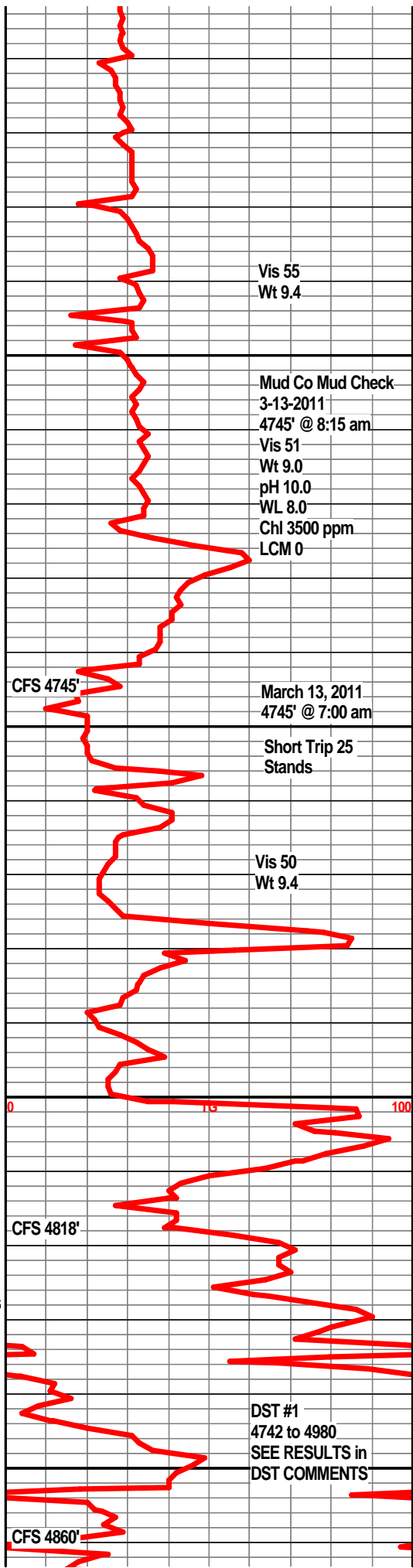
Sandstone, clear to grey-white, fine grained, fair sorting, fair even staining, friable in part, some well cemented, fair odor, some free oil in tray, trace of bleeding gas.

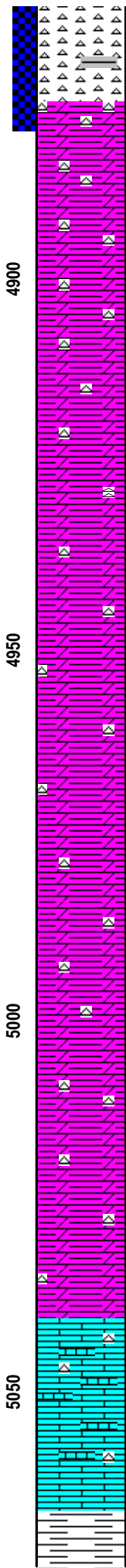
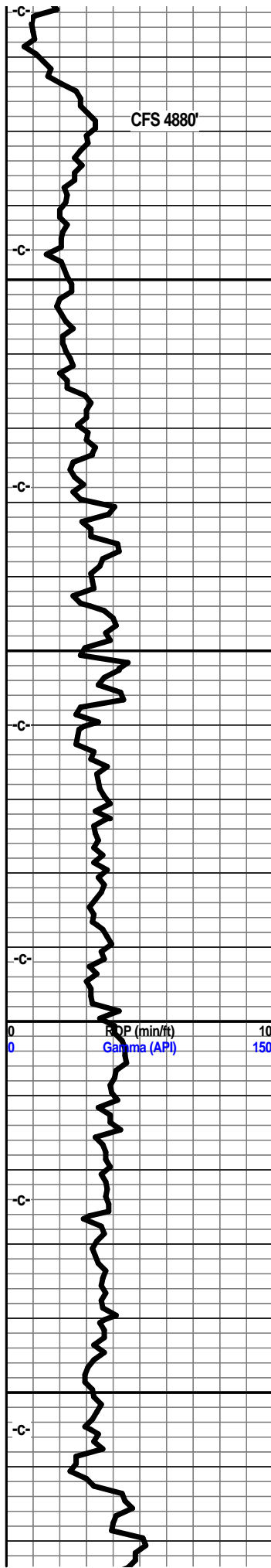
Shale, grey-green, vari-colored cherts, some sand stringers, trace pale green ls.

Chert, white to off-white, bone, sharp, few pieces weathered, some dark staining along edges, scattered weatered cherts with trace pin point porosity, faint odor, very slight show of oil, trace gas, dull fluor.

Chert, white to off-white, fresh, increasing weathered, pin point porosity, scattered very small vugs, fair odor, fair show of oil, trace of bleeding gas, spotted staining throughout, dull fluor, good gas indication.

Chert white off-white sharp fresh some





Chert, white, or white, sharp, fresh, some weathered chert with small scattered vug porosity, weathered chert has fair staining, sharp chert has fair staining along edges, faint odor, slight show gas, good gas indication, dull floor.

Dolo, tan-grey, xln, grey-green shales, trace of pyrite, cherty in part, with light staining.

Dolo., tan-grey, light grey, xln, grey green shales, cherty with light staining, no odor.

Dolo, grey-white, xln, dense, traces of sharp chert with edge staining, trace of weathered cherts with light uneven staining, grey-green splintery shales.

Dolo., light grey-grey, xln, dense, grey-green firm shales, some sharp cherts with edge staining, trace of weathered chert with uneven staining.

Dolo., light grey-white to grey, xln, traces of fresh chert, very small amount of light staining, abundant grey-green splintery shales.

Dolo., grey-white, xln, some fresh sharp cherts, grey-green shales.

Dolo, grey, light grey, xln, green-grey shales, increasing amounts of shales, trace of fresh chert.

Dolo, grey, xln, abundant grey-green shales, traces of fresh sharp chert.

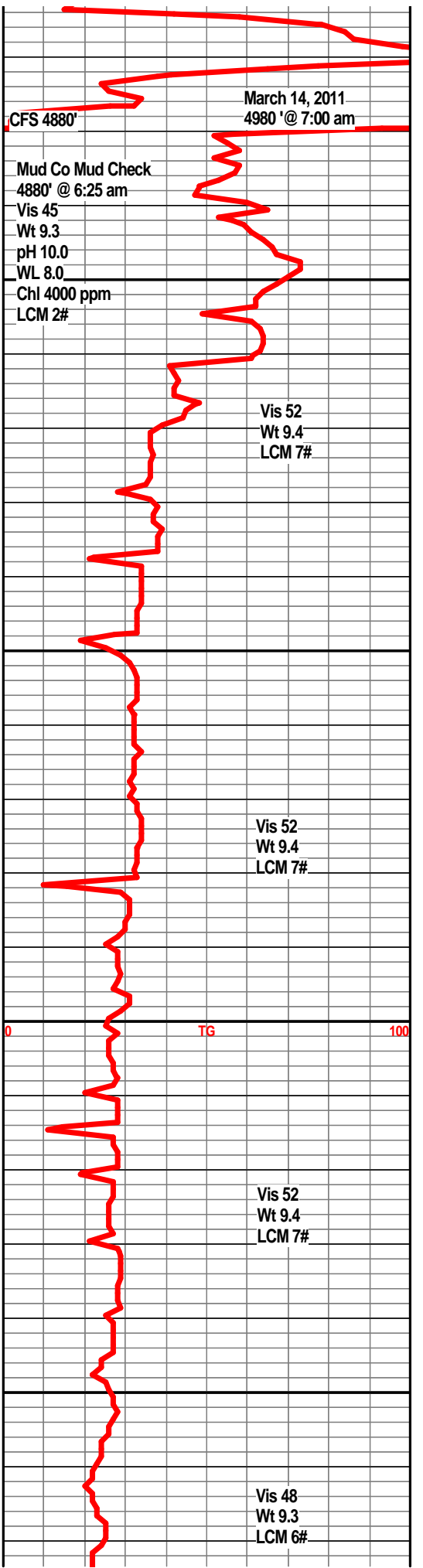
Dolo, grey, some light grey, grey-green splintery shales.

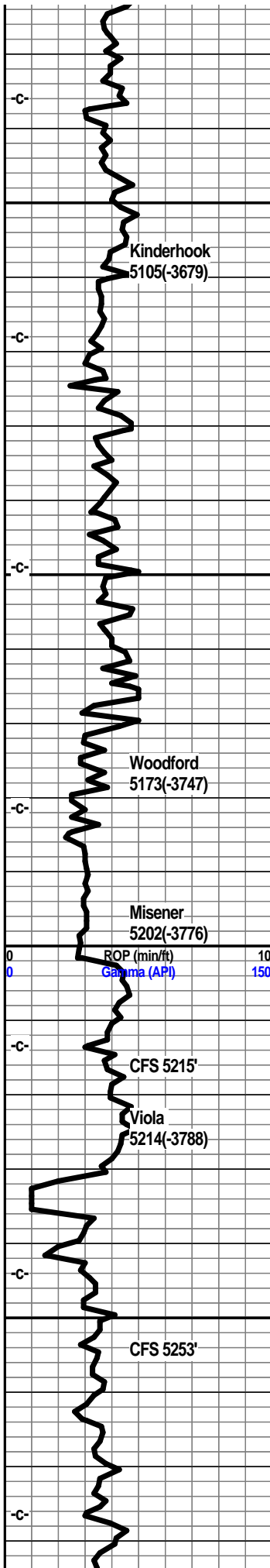
Dolo, grey, light grey, xln, trace of fresh sharp white cherts, grey-green splintery shales.

Dolo, grey, xln, green-grey shales.

Limestone, tan, tan-white, xln, dense, slightly cherty, sub-chalky in part.

Shale, grey-green.





Shale, pale green, dark green.

Limestone, buff, tan-white, xln, dense, foss, chaky in part.

Shale, grey-green, trace of pyrite.

Shale, grey, silty.

Shale, grey, dk grey.

Shale, grey-black, some coffee brown, carb.

Shale, grey-black, carb, traces of pyrite.

Sandstone, tan, tan-brown, very fine grained, poor sorting, well cemented, ?? brown staining, no odor, no gas indication, traces of pyrite.

Shale, pale green-grey.

Dolo., Grey-white, soft, xln, fine grained.

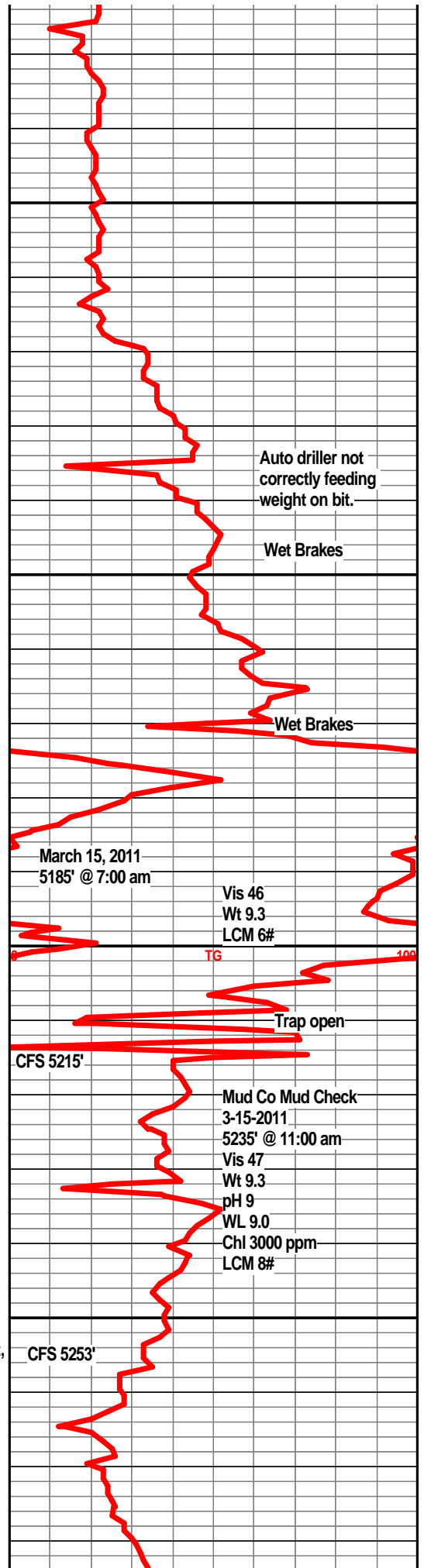
Dolo., Light grey-white, xln, soft, very fine grained.

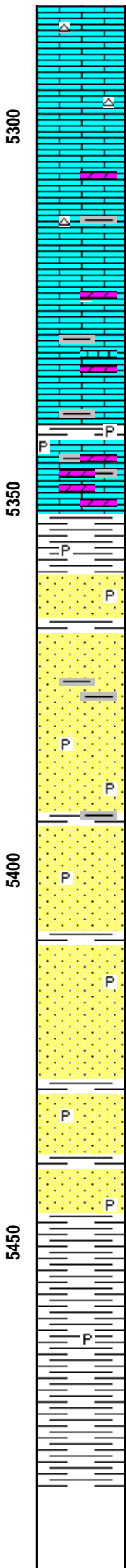
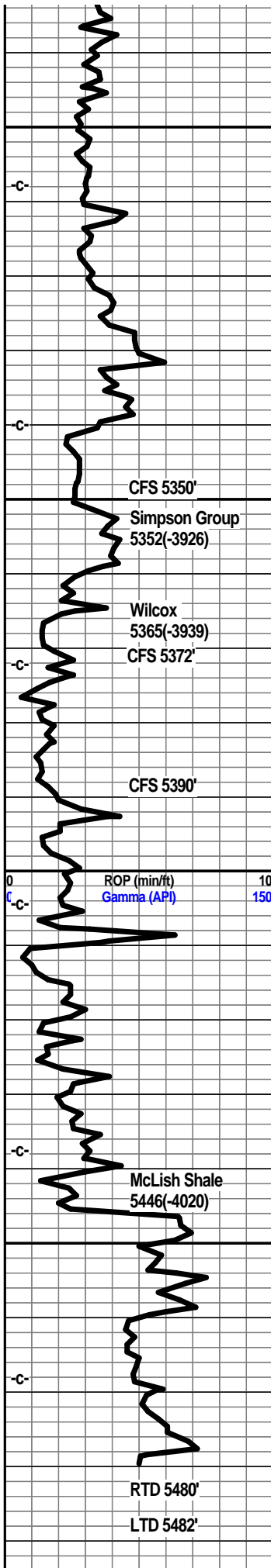
Dolo, grey-white, xln, fine grained, chalky, soft.

Dolo, grey-white, fine grained, chalky, soft.

Dolo. grey-white, xln, fine grained, chalky in part, soft.

Limestone, grey-white, tan, mxln, xln porosity, traces of tan chert, no visible shows, no odor.





Limestone, tan-white, grey, xln, xln porosity, granular texture, traces of tan-white chert, no visible shows.

Limestone, grey, tan-white, xln, dolo in part, tan cherts, granular to sandy texture.

Limestone, tan-white, xln, tan cherts, grey-green shales. Dolo in part.

Limestone, tan-white, xln, traces of tan cherts, some shale stringers, slightly dolo in part, no visible porosity, no odor, no visible shows.

Limestone, tan. xln, very dolomitic, granular, well cemented, some shale inclusions. Slight show oil and gas, no odor, dull fluor.

Shale, pale green to dark green, trace pyrite.

Sandstone, clear to grey-white, SA to SR, fair sorting, few friable, some well cemented, trace of slight light brown staining.

Sandstone, clear to white, SA to SR, good sorting, very friable, glauc, no visible staining, no odor, free grains scattered in tray, very dull fluor.

Sandstone, clear to grey-white, sa to sr, friable, loose grains in tray, glauc, no visible staining, very slight show light oil under UV light, no odor, very dull fluor.

Sandstone, clear to white, sa to sr friable, glauc, spotty slight show under uv light, no odor, some interbedded shales, spotty fluor., traces of pyrite. ??? gas indication.

Shale, grey-green.

Sandstone, clear to grey-white, fair sorting, some dirty, glauc, pyrite, friable in part, dull spotty fluor, no odor.

Sandstone, clear, grey-white, fair sorting, friable, galuc, shaley in part, pyrite.

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

Shale, green, dark grey-green, firm, pyritic.

