



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1202699  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

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

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

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

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

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

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

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

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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

1202699

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

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

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ALLIED OIL & GAS SERVICES, LLC 062431

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Medicine Lodge, KS

DATE <u>1-19-2014</u>	SEC <u>17</u>	TWP <u>35S</u>	RANGE <u>12W</u>	1-18 CALLED OUT <u>10:00 pm</u>	1-19 ON LOCATION <u>12:00 AM</u>	JOB START <u>2:00 pm</u>	JOB FINISH <u>2:30 AM</u>
LEASE <u>M 111125</u>		WELL # <u>1</u>	LOCATION <u>Agroton, KS 1/2 South</u>	COUNTY <u>Borner</u>	STATE <u>KS</u>		
OLD OR (NEW) (Circle one)			<u>W 11120</u>				

CONTRACTOR Fossil  
 TYPE OF JOB Surfing  
 HOLE SIZE 17 1/2 T.D. 226'  
 CASING SIZE 13 3/4 DEPTH 211'  
 TUBING SIZE 8 5/8 25 DEPTH 15'  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 20'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 31 bbls fresh water

OWNER Woolsey Operating  
 CEMENT AMOUNT ORDERED 3000 lbs Class 6 + 3% cc 2061  
 COMMON Class A 300 @ 17.90 5370.00  
 POZMIX @ \_\_\_\_\_  
 GEL 6 sk @ 23.90 143.40  
 CHLORIDE 11 sk @ 64.00 704.00  
 ASC @ \_\_\_\_\_  
 HANDLING 320 @ 2.48 793.60  
 MILEAGE 14.38 / 26 / 2.60 972.22  
 TOTAL 7983.22

EQUIPMENT  
 PUMP TRUCK CEMENTER D Grin F  
 # 471-265 HELPER Rong  
 BULK TRUCK  
 # 364 DRIVER Tony (hus)  
 BULK TRUCK  
 # 673 DRIVER D Grin F

REMARKS:  
Pipe on bottom & break circulation  
Pump 3 bbls water, mix 3000  
Cement & displ 31 bbls water  
Shut in 15 min + 2 1/2 Circulation

**WELL FILE**  
 Regulatory Correspondence  
 (Orig) Comp Workovers  
 Tests / Meters Operations

CHARGE TO: Woolsey Operating  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE  
 DEPTH OF JOB 226'  
 PUMP TRUCK CHARGE 1512.25  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 26 @ 7.70 200.20  
 MANIFOLD @ \_\_\_\_\_  
LU 26 @ 4.40 114.40  
 TOTAL 1827.35

PLUG & FLOAT EQUIPMENT  
 @ \_\_\_\_\_  
none @ \_\_\_\_\_  
 @ FFR 25 2014  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, 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 9810.57  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
Net 7848.45

PRINTED NAME X MICHAEL THARP  
 SIGNATURE X M. Tharp

# ALLIED OIL & GAS SERVICES, LLC 062372

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

DATE <u>01/29/14</u>	SEC. <u>17</u>	TWP. <u>35s</u>	RANGE <u>12w</u>	CALLED OUT	ON LOCATION <u>1/29/14</u> <u>7:00 PM</u>	JOB START <u>1/30/14</u> <u>3:00 AM</u>	JOB FINISH <u>1/30/14</u> <u>4:00 AM</u>
LEASE <u>Mikita</u>				WELL # <u>1</u>	LOCATION <u>Hardtner KS, 1/2 South, West into</u>	COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)							

CONTRACTOR Fossil  
 TYPE OF JOB Production  
 HOLE SIZE 7 7/8 T.D. 5535  
 CASING SIZE 5 1/2 DEPTH 5518  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 1600 MINIMUM  
 MEAS. LINE SHOE JOINT 39  
 CEMENT LEFT IN CSG. 39  
 PERFS.  
 DISPLACEMENT 131 BBLs 2% KCL H<sub>2</sub>O

OWNER Woolsey  
 CEMENT  
 AMOUNT ORDERED 90 ex 60:40:4% Gel,  
125 sx Class H 10% Salt + 10% Gyp + 6#  
Kalseal + .8% FL-160 + 4# Floseal, 14 Gal KCL

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thinesch  
 # 1471/2655 HELPER Justin Bowers/David Felix  
 BULK TRUCK  
 # 364 DRIVER TWS Tony  
 BULK TRUCK  
 # 391/ DRIVER Joe

COMMON <u>Class A 545x</u>	@	<u>17.90</u>	<u>966.60</u>
POZMIX <u>365x</u>	@	<u>9.35</u>	<u>366.60</u>
GEL <u>35x</u>	@	<u>23.40</u>	<u>70.20</u>
CHLORIDE	@		
ASC	@		
<u>Class H</u>	@	<u>21.20</u>	<u>2650.00</u>
<u>Salt</u>	@	<u>26.35</u>	<u>342.55</u>
<u>Kalseal</u>	@	<u>.98</u>	<u>735.00</u>
<u>Gyp Seal</u>	@	<u>37.60</u>	<u>864.80</u>
<u>Floseal</u>	@	<u>2.97</u>	<u>95.01</u>
<u>FL-160</u>	@	<u>18.90</u>	<u>1776.60</u>
<u>KCL</u>	@	<u>34.40</u>	<u>481.60</u>

HANDLING 265 ft<sup>3</sup> @ 2.48 = 657.20  
 MILEAGE 11.31 @ 25 = 282.75  
 TOTAL 9770.65

REMARKS:

Pay Rig time 130 AM to 330 AM  
Truck Detax = 2 hrs at 375.00

WELL FILE

Regulatory Correspondence  
 Drig / Comp Workovers  
 Tests / Meters Operations

FEB 13 2014

CHARGE TO: Woolsey  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB <u>5518</u>			
PUMP TRUCK CHARGE			<u>2765.75</u>
EXTRA FOOTAGE	@		
MILEAGE <u>26</u>	@	<u>7.70</u>	<u>200.00</u>
MANIFOLD	@		<u>275.00</u>
<u>Light Vehicle</u> <u>26</u>	@	<u>4.40</u>	<u>114.40</u>

TOTAL 3354.55

PLUG & FLOAT EQUIPMENT

<u>Turbolizers</u> <u>13</u>	@	<u>89.00</u>	<u>1157.00</u>
<u>Recip scratchers</u> <u>24</u>	@	<u>95.00</u>	<u>2280.00</u>
<u>AFU Float Shoe</u> <u>1</u>	@		<u>545.00</u>
<u>Latch down Plug</u> <u>1</u>	@		<u>660.00</u>

TOTAL 4642.00

To: Allied Oil & Gas Services, 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) 17,767.20

TOTAL CHARGES \_\_\_\_\_

PRINTED NAME MIKE THARP

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

SIGNATURE Mike Tharp

net. 15142.16  
 Rig time - 750.00  
 total 14392.11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Woolsey Operating Co.

**17-35s-12w Barber Co.**

125 N. Market Suite 1000  
Wichita, Ks. 67202

**Mikita #1**

Job Ticket: 51928

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2014.01.25 @ 20:34:14

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 00:42:59

Time Test Ended: 07:40:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 53

**Interval: 4758.00 ft (KB) To 4896.00 ft (KB) (TVD)**

Reference Elevations: 1421.00 ft (KB)

Total Depth: 4896.00 ft (KB) (TVD)

1409.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 6719 Outside**

Press @ Run Depth: 95.59 psig @ 4759.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.25

End Date:

2014.01.26

Last Calib.:

2014.01.26

Start Time: 20:34:19

End Time:

07:40:29

Time On Btm:

2014.01.26 @ 00:41:59

Time Off Btm:

2014.01.26 @ 05:15:44

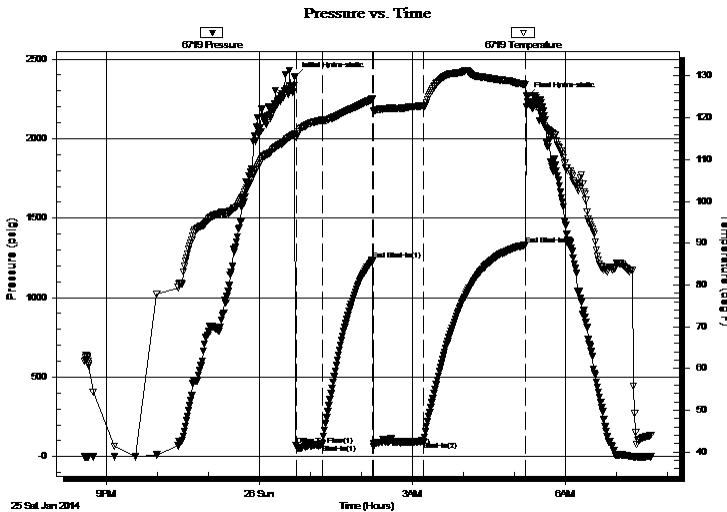
**TEST COMMENT:** IF: Strong blow . B.O.B. in 2 1/2 mins.

IS: No blow .

FF: Strong blow . B.O.B. in 30 secs. G.T.S. in 13 mins. ( see gas flow report)

FS: No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2389.96	116.07	Initial Hydro-static
1	69.29	115.50	Open To Flow (1)
33	79.86	119.53	Shut-In(1)
91	1234.08	124.45	End Shut-In(1)
93	66.46	121.61	Open To Flow (2)
152	95.59	122.88	Shut-In(2)
271	1331.44	127.97	End Shut-In(2)
274	2263.41	123.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 4%g 1%o 95%m	0.30
180.00	GCM/w o specs 10%g 90%m	1.43

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.00	32.36
Last Gas Rate	0.25	2.50	26.81
Max. Gas Rate	0.25	6.00	32.36





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Woolsey Operating Co.

**17-35s-12w Barber Co.**

125 N. Market Suite 1000  
Wichita, Ks.67202

**Mikita #1**

Job Ticket: 51928

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2014.01.25 @ 20:34:14

## 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:

5000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 4%g 1%o 95%m	0.295
180.00	GCM/w o specs 10%g 90%m	1.432

Total Length: 240.00 ft

Total Volume: 1.727 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: ms-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Woolsey Operating Co.

**17-35s-12w Barber Co.**

125 N. Market Suite 1000  
Wichita, Ks.67202

**Mikita #1**

Job Ticket: 51928

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2014.01.25 @ 20:34:14

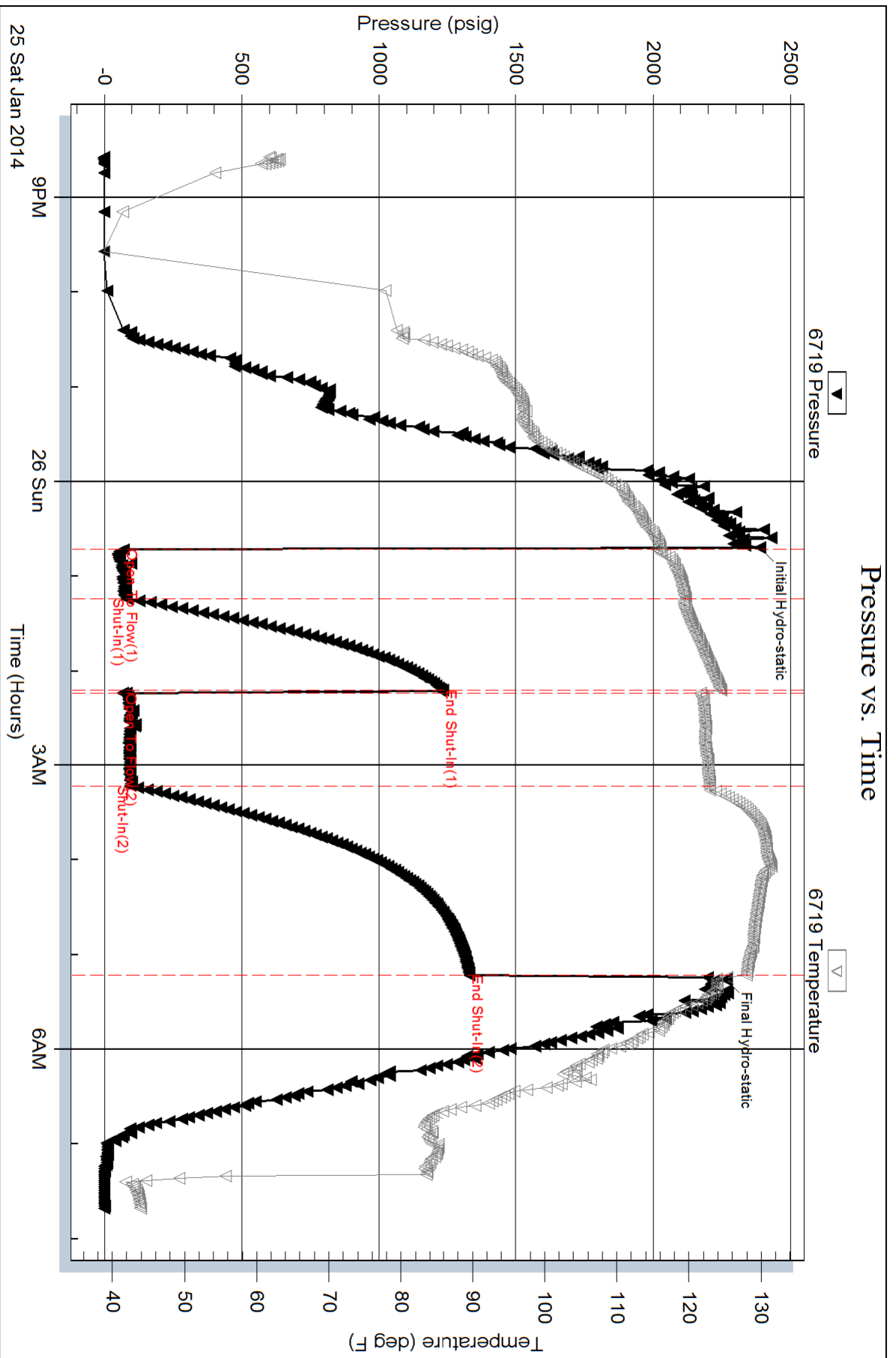
### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	20	0.25	6.00	32.36
2	20	0.25	6.00	32.36
2	30	0.25	3.00	27.60
2	40	0.25	3.00	27.60
2	50	0.25	2.50	26.81

# Pressure vs. Time

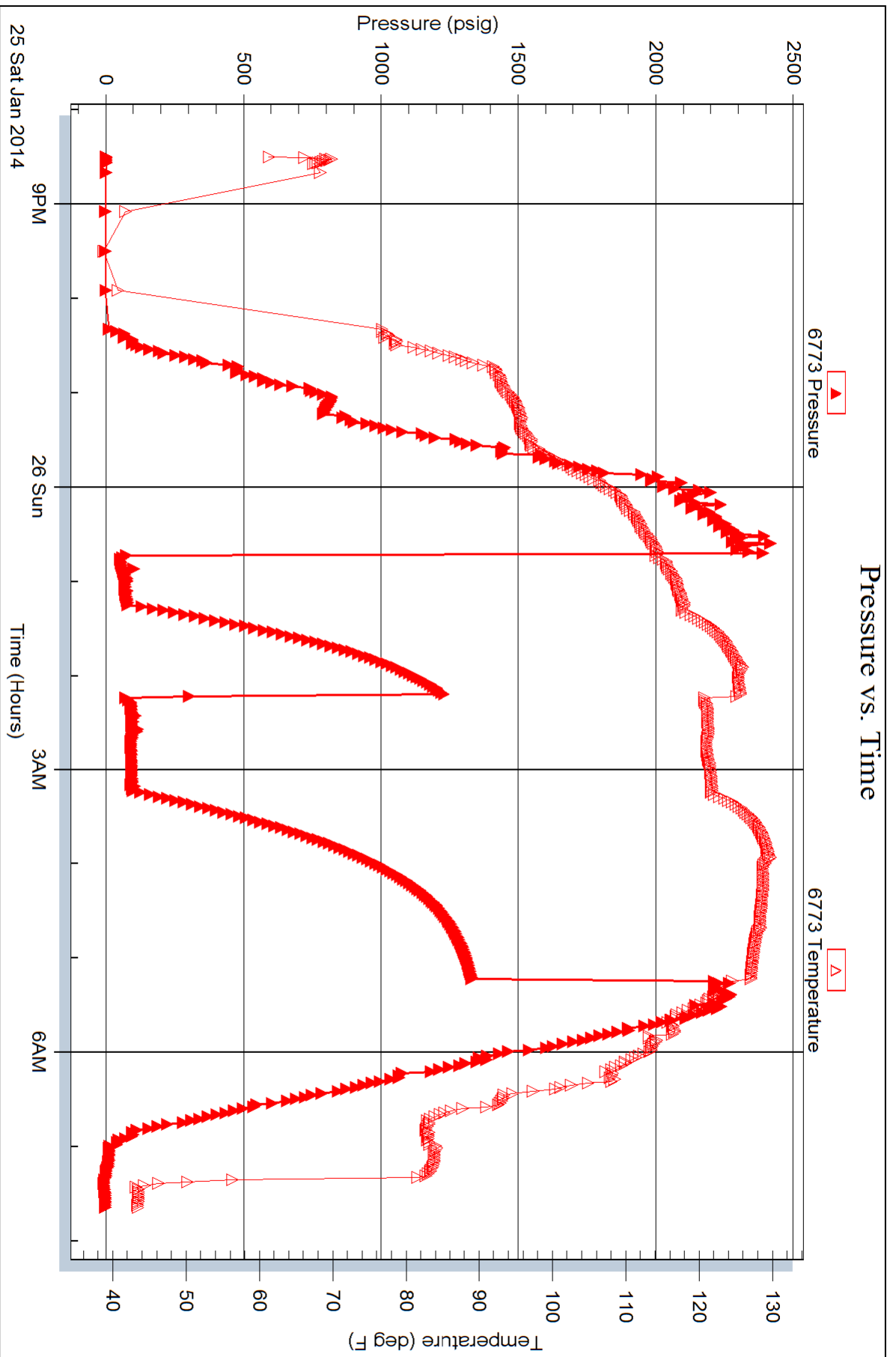


Serial #: 6773

Outside Woodsey Operating Co.

Mkita #1

DST Test Number: 1





**Woolsey Operating Company, LLC**

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

Measured Depth Log

**Well Name:** Mikita #1  
**Location:** Section 17 - Township 35 South - Range 12 West  
**License Number:** 15-007-24124-0000  
**Spud Date:** January 18, 2014  
**Surface Coordinates:** 600' FNL & 2,300' FWL  
Irregular Section  
**Bottom Hole Coordinates:**  
**Ground Elevation (ft):** 1408' **K.B. Elevation (ft):** 1421'  
**Logged Interval (ft):** 4000' **To:** 5535' **Total Depth (ft):** 5535'  
**Formation:** Kansas City Group ---> Simpson Group  
**Type of Drilling Fluid:** Chemical Mud, Displaced at 3320'  
**Region:** Barber County, Kansas  
**Drilling Completed:** January 29, 2014  
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

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

**GEOLOGIST**

**Name:** Bill Klaver  
**Company:** Woolsey Operating Co. LLC  
**Address:** 125 N. Market, Wichita Kansas, 67202

## COMMENTS

Surface Casing: Spudded test at 5:30 pm on January 18, 2014, set 5 joints of new 13 3/8" X 48#/ft casing to 223' KB (tally 211.05') with 300 sx Class A, 2% gel, 3% cc (by Allied). Plug down at 2:15 am on January 19, 2014. Cement did circulate.

Production Casing: 5 1/2" X 16.5#/ft

Deviation Surveys: 1 @ 226', 1/2 @ 1523', 1 @ 1998', 3/4 @ 2506', 3/4 @ 3009', 3/4 @ 3516', 3/4 @ 3992', 3/4 @ 4499', 1 @ 4896', 1/2 @ 5535'

Pipe Strap @ 4896', Strap: 4913.57', Board: 4914.05'. Strap .48' short. No corrections were made to the board.

Fossil Drilling Rig 3 Bit Record:

- 1) 17 1/2" HTC RT RR in at 0' out at 226', 2.75 hours
- 2) 7 7/8" Varel HE-21 in at 226' out at 4896', 4670' in 115 3/4 hrs
- 3) 7 7/8" Hughes SE-95 RR in at 4896', 50 1/2 hours

Gas Detector: Woolsey Operating Company, Gas Trailer #2

Mud System: Mud Co. Brad Bortz, Engineer

DSTs: Trilobite Testing, Gary Pevoteaux, Master Tester

E-Logs: Nabors Completion and Production Services, Dual Induction Laterolog w/SP, CNL-FDC w/PE, Gamma Ray and Caliper. Jeff Luebbers, Open Hole Engineer.

## DSTs

DST #1 Cherokee/Mississippian, 4760'-4896', SB BOB 2 minutes into initial flow period. GTS 13 minutes into second flow period. Flow rates of FFP: 20" 30.4 MCF, 30" 25.9 MCF, 40" 25.9 MCF, 50" 25.2 MCF, 60" 24.5 MCF. Rec:180' GCM w/oil specks (10% Gas, 90% Mud), 60' GOCM (4% Gas, 1% Oil, 95% Mud) IHP 2389, IFP 69-79, ISIP 1234, FFP 66-95, FSIP 1331, FHP 2263. BHT 128 degrees. Note: A good show of oil was pumped from the hole after the test. Partially covered the working pits.

## CREWS

Jim Wenrich, Tool Pusher

Daniel Orrantea, Days

Ron Burns, Evening

Andy Maestas, Morning

Terry Christenson, Relief



Sec. 9-35S-R12W and Woolsey Operating Co's  
Weckworth #4, Sec. 9-T35S-R12W.

4060' 6 pm  
Thursday  
January 23, 2014  
10 degrees!

One minute drill time was recorded from 4000' to rotary total depth. Ten foot rotary samples and circulating samples were collected from 4600' to rotary total depth. All samples were delivered to the survey at the completion of the test.

7 am Progress:  
January 18, 2014 MIRT/SPUD  
January 19, 2014 WOC  
January 20, 2014 Drilling at 1365'  
January 21, 2014 Drilling at 2200'  
January 22, 2014 Drilling at 3001'  
January 23, 2014 Drilling at 3720'  
January 24, 2014 Drilling at 4425'  
January 25, 2014 Drilling at 4780'  
January 26, 2014 DST #1 at 4896'  
January 27, 2014 Lost Circ at 5140'  
January 28, 2014 Drilling at 5365'  
January 29, 2014 TOOH for log at 5535'

Oil and Gas Show Legend

- ⊗ Gas
- Even Stain/Saturation
- ◐ Spotted Stain/Saturation
- Questionable
- ◻ Dead/Gilsonitic

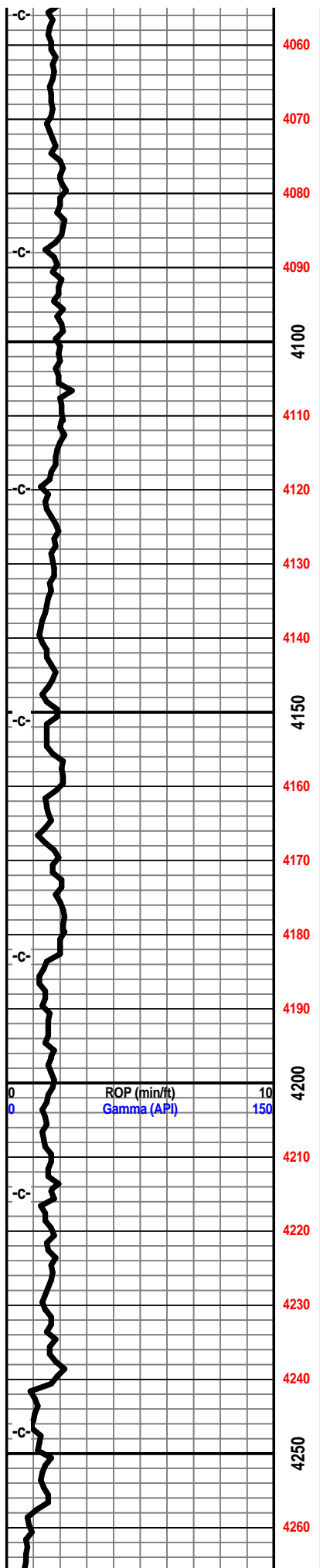
E-log Tops:  
Herington 1961 (-540)  
Onaga 2830 (-1409)  
Wabaunsee 2889 (-1468)  
LeCompton 3641 (-2220)  
Kanwaka 3665 (-2244)  
Elgin Sand 3737 (-2316)  
Heebner 3875 (-2454)  
Toronto 3894 (-2473)  
Douglas Grp 3937 (-2516)  
Douglas Shale 3963 (-2542)  
Haskell DND  
Stalnaker 4242 (-2821)  
Quindaro Shale 4395 (-2974)  
Kansas City 'F' 4411 (-2990)  
Kansas City 'G' (Iola) 4436 (-3015)  
Kansas City 'H' (Drum) 4489 (-3068)  
Kansas City 'I' (Dennis) 4524 (-3103)  
Stark 4563 (-3142)  
Kansas City 'J' (Swope) 4573 (-3152)  
Hushpuckney 4591 (-3170)  
Kansas City 'K' (Hertha) 4607 (-3186)

wt. 8.9 vis. 54

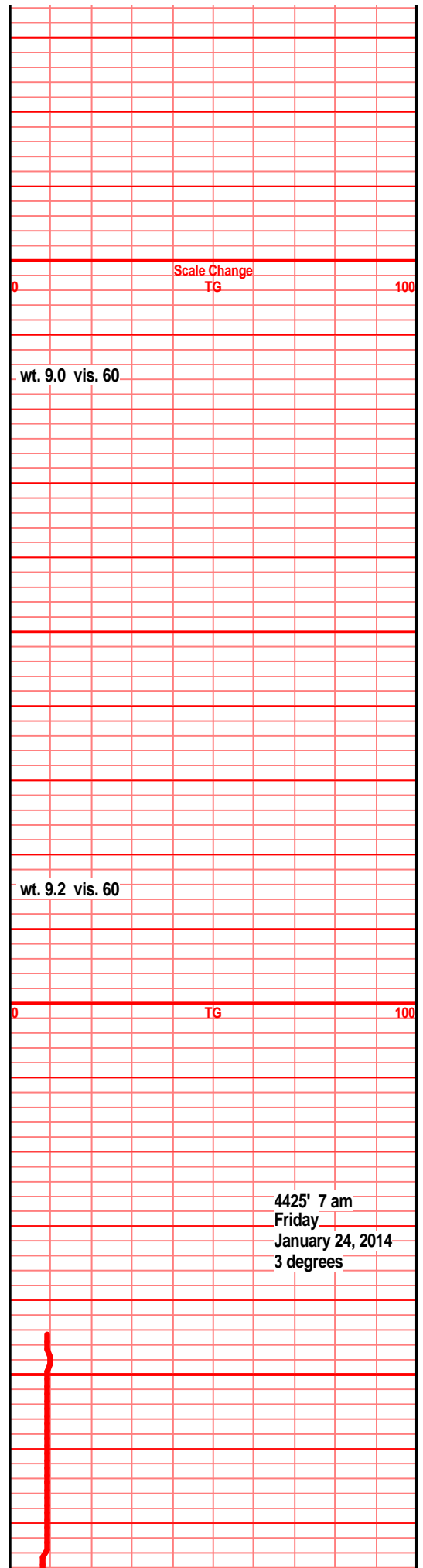
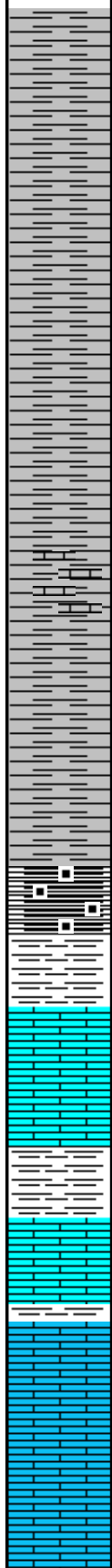
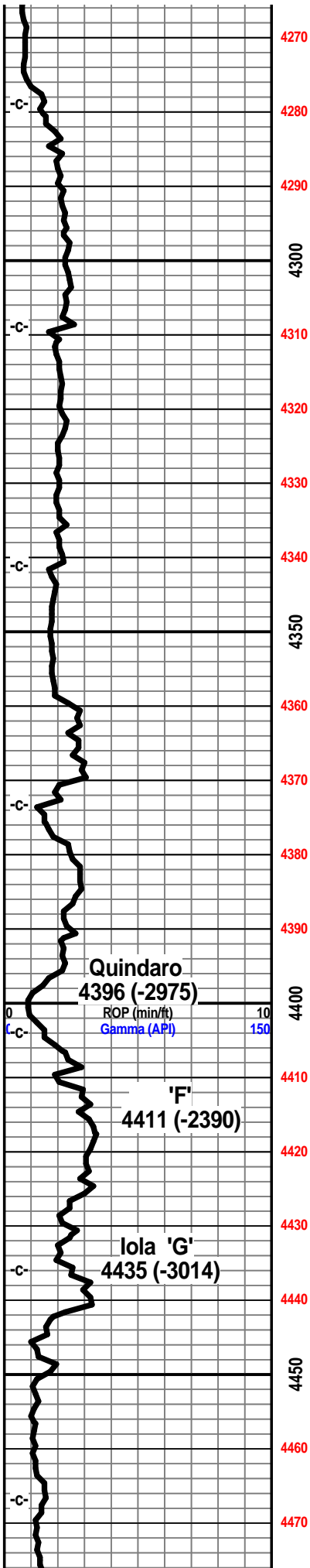
wt. 9.1 vis. 56

0 TG 300

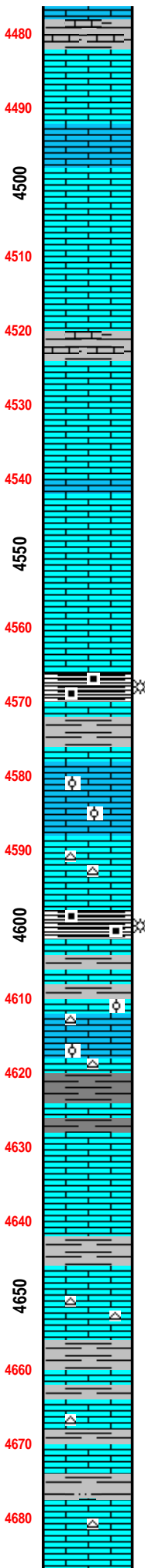
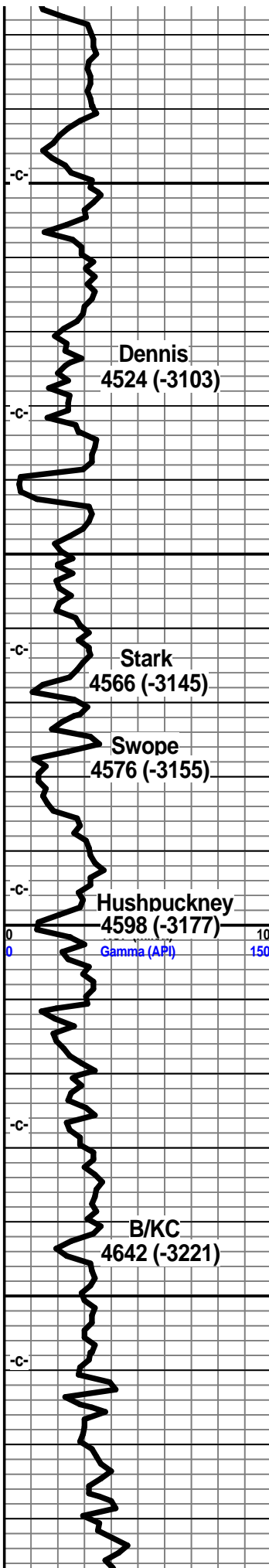
wt. 9.0 vis. 58



B/Kansas City 4637 (-3216)  
 Pawnee 4736 (-3315)  
 Cherokee Grp 4781 (-3360)  
 Cherokee Sand 4805 (-3384)  
 Mississippi Unc. 4850 (-3429)  
 C3 4850 (-3429)  
 C2A 4857 (-3436)  
 C2 4889 (-3468)  
 C1 4974 4974 (-3553)  
 Osage 5039 (-3618)  
 Northview Shale 5108 (-3687)  
 Compton 5127 (-3706)  
 Kinderhook 5146 (-3725)  
 Woodford5217 (-3706)  
 Misener Sand 5243 (-3822)  
 Viola 5301 (-3880)  
 Simpson Group 5399 (-3978)  
 Simpson 'F' DND  
 Simpson 'Wilcox' Sand 5419 (-3998)  
 McLish Shale 5480 (-4059)  
 LTD 5522 (-4101)







shl gry calc, tr blk wxy grsy carb chunks, 1st tan lt gry tan f xln gran sub chlky, foss frags calc xln fill

1st buff lt gry tan f sli med xln blk ang gran sub chlky, foss frag, calc xln fill, foss ool, pelletal, tr chrt lt gry wht shrp frsh opa

shl drk gry blk, blk grsy wxy carb, gas bubs, blk ang pcs

1st crm tan lt gry in prt, f sli med xln, gran sub chlky, foss frags, tr arg, foss ool, calc xln fill, tr chrt wht lt gry shrp frsh opa

shl gry med gry silty gritty, calc, 1st dull tan lt gry f xln blk and dns, sub chlky, foss frags, calc xln fill

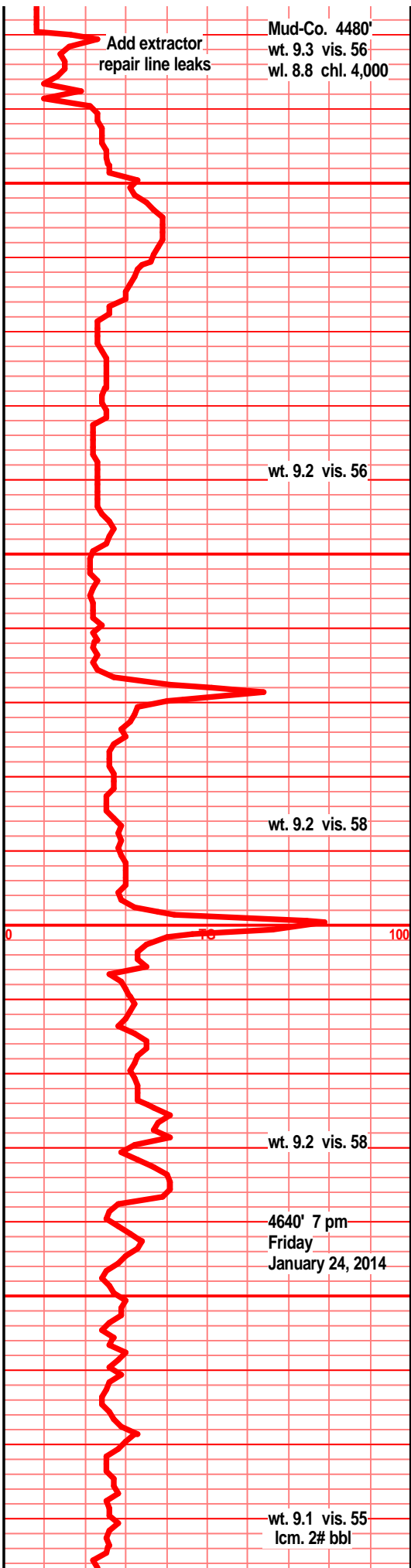
1st buff gry tan f vf xln blk dns hrd, sub chlky, foss frags, arg silty gritty in prt, calc xln fill,

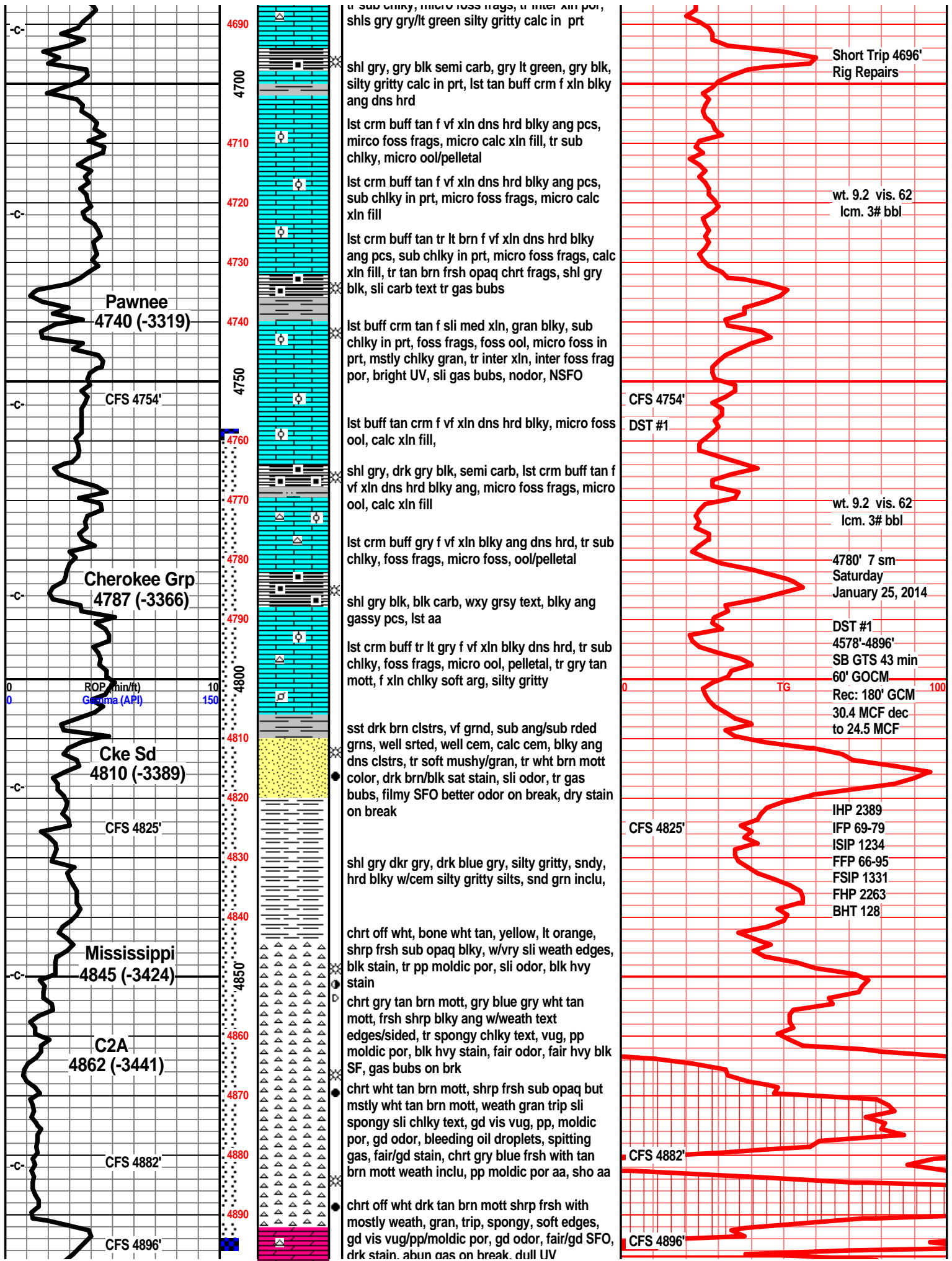
shl gry blk, gry brn, silty gritty calc, 1st dull gry tan lt brn f xln dns hrd ang arg, sub chlky

shl drk gry, gry drk green tr rd, silty gritty calc in prt, 1st buff tan gry f xln dns hrd blk ang tr chlky tr foss frags, chrt tan brn shrp frsh opa

shl gry lt green, silty gritty, tr sndy text, 1st buff tan tr brn f vf xln dns hrd blk ang tr arg, silty, chrt tan brn shrp frsh opa

1st buff tan drk gry/crm f xln blk ang hrd dns, tr sub chlky, micro foss frags, tr inter xln por





tr sub chky, micro foss frags, tr inter xln por, shls gry gry/lt green silty gritty calc in prt

shl gry, gry blk semi carb, gry lt green, gry blk, silty gritty calc in prt, 1st tan buff crm f xln blkly ang dns hrd

1st crm buff tan f vf xln dns hrd blkly ang pcs, mirco foss frags, micro calc xln fill, tr sub chlky, micro ool/pelletal

1st crm buff tan f vf xln dns hrd blkly ang pcs, sub chlky in prt, micro foss frags, micro calc xln fill

1st crm buff tan tr lt brn f vf xln dns hrd blkly ang pcs, sub chlky in prt, micro foss frags, calc xln fill, tr tan brn frsh opa q chrt frags, shl gry blk, sli carb text tr gas bubs

1st buff crm tan f sli med xln, gran blkly, sub chlky in prt, foss frags, foss ool, micro foss in prt, mstly chlky gran, tr inter xln, inter foss frag por, bright UV, sli gas bubs, nodor, NSFO

1st buff tan crm f vf xln dns hrd blkly, micro foss ool, calc xln fill,

shl gry, drk gry blk, semi carb, 1st crm buff tan f vf xln dns hrd blkly ang, micro foss frags, micro ool, calc xln fill

1st crm buff gry f vf xln blkly ang dns hrd, tr sub chlky, foss frags, micro foss, ool/pelletal

shl gry blk, blk carb, wxy grsy text, blkly ang gassy pcs, 1st aa

1st crm buff tr lt gry f vf xln blkly dns hrd, tr sub chlky, foss frags, micro ool, pelletal, tr gry tan mott, f xln chlky soft arg, silty gritty

sst drk brn clstrs, vf grnd, sub ang/sub rded grns, well srted, well cem, calc cem, blkly ang dns clstrs, tr soft mushy/gran, tr wht brn mott color, drk brn/blk sat stain, sli odor, tr gas bubs, filmy SFO better odor on break, dry stain on break

shl gry dkr gry, drk blue gry, silty gritty, sndy, hrd blkly w/cem silty gritty silts, snd grn inclu,

chrt off wht, bone wht tan, yellow, lt orange, shrp frsh sub opa q blkly, w/vry sli weath edges, blk stain, tr pp moldic por, sli odor, blk hvy stain

chrt gry tan brn mott, gry blue gry wht tan mott, frsh shrp blkly ang w/weath text edges/sided, tr spongy chlky text, vug, pp moldic por, blk hvy stain, fair odor, fair hvy blk SF, gas bubs on brk

chrt wht tan brn mott, shrp frsh sub opa q but mstly wht tan brn mott, weath gran trip sli spongy sli chlky text, gd vis vug, pp, moldic por, gd odor, bleeding oil droplets, spitting gas, fair/gd stain, chrt gry blue frsh with tan brn mott weath inclu, pp moldic por aa, sho aa

chrt off wht drk tan brn mott shrp frsh with mostly weath, gran, trip, spongy, soft edges, gd vis vug/pp/moldic por, gd odor, fair/gd SFO, drk stain. abun gas on break. dull UV

Short Trip 4696'  
Rig Repairs

wt. 9.2 vis. 62  
lcm. 3# bbl

CFS 4754'  
DST #1

wt. 9.2 vis. 62  
lcm. 3# bbl

4780' 7 sm  
Saturday  
January 25, 2014

DST #1  
4578'-4896'  
SB GTS 43 min  
60' GOCM  
Rec: 180' GCM  
30.4 MCF dec  
to 24.5 MCF

CFS 4825'

IHP 2389  
IFP 69-79  
ISIP 1234  
FFP 66-95  
FSIP 1331  
FHP 2263  
BHT 128

CFS 4882'

CFS 4896'

Pawnee  
4740 (-3319)

CFS 4754'

Cherokee Grp  
4787 (-3366)

Cke Sd  
4810 (-3389)

CFS 4825'

Mississippi  
4845 (-3424)

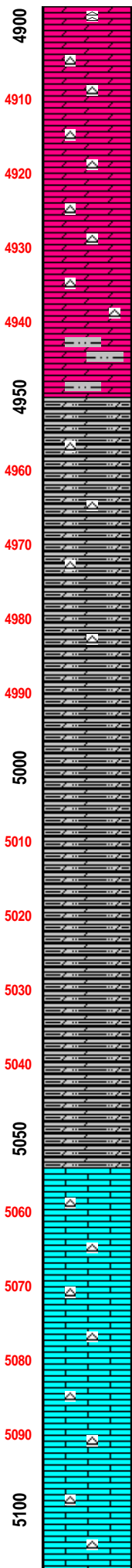
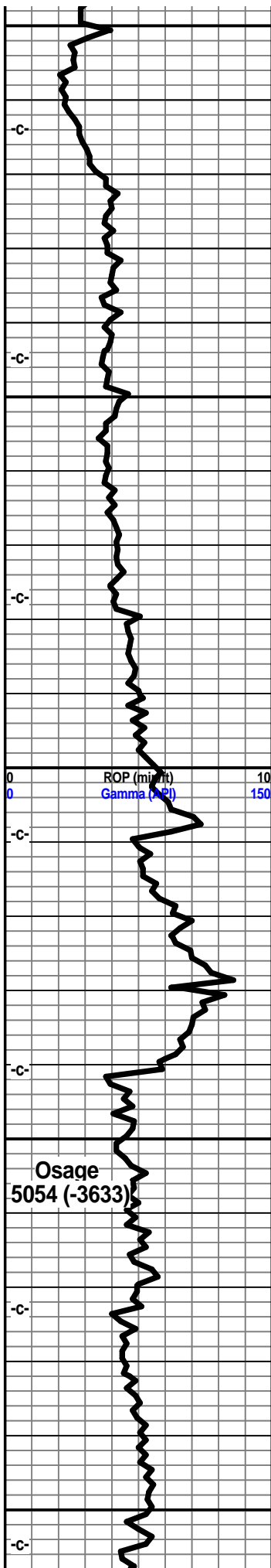
C2A  
4862 (-3441)

CFS 4882'

CFS 4896'

ROP (min/ft)  
Gamma (API)

TG



dolo crm tan tr lt gry/green, f vf xln, gran, sndy gritty text, snd grn inclu, tr sli inter xln por, mstly tite dns, fair to gd stain sat, SSFO/brkn, tr gas bubs, chrt, chrty dolo, crm tan with blue gry shrp frsh chrt inclu, tr weath chrt with pp moldic vug por, stain, SSFO, sli to fair odor in all

dolo crm tan, lt gry/brn f vf xln dns hrd blk ang, silic, sndy text, snd grn inclu, tr inter xln por, off wht lt gry chrt inclu, brn blk stain along chrt/dolo contact, tr weath chrt, pp moldic por

dolo tan bec gry, drker gry f micro xln, dns hrd, silic text, tr sndy/snd grn inclu, chrt wht bone wht gry shrp frsh sub opa

dolo gry drk gry, f micro xln dns hrd blk ang bec arg, silty, silic text, chrt off wht bone wht lt gry shrp frsh sub opa

dolo silty dolo, med, drk gry, f vf xln gran gritty silty, dolo drk tan grn f micro xln silic text, tr sndy text, snd grn inclu, tr chrt wht, bone wht shrp frsh

dolo drk tan gry, f micro xln, arg silty silic text, tr sndy text, drk gry silty dolostn, f vf xln gran gritty

dolo silty dolo, med to drk gry, f vry fn xln dns hrd silty gritty, arg, silic text, tr chrt wht off wht shrp frsh sub opa

dolo, silty shly dolostn, f vf xln gran gritty shly silic text, arg

dolo, silty shly dolostn, f vf xln dns hrd blk ang arg, silty gritty silic text

dolo silty dolo, med drk gry, f vf xln gran gritty, silty, silic text

dolo, silty gritty shly dolostn, drk med drk gry, f vf xln, silic text, arg

dolo, silty dolo, med/drk gry, f vf xln dns hrd blk gritty, silic, shly

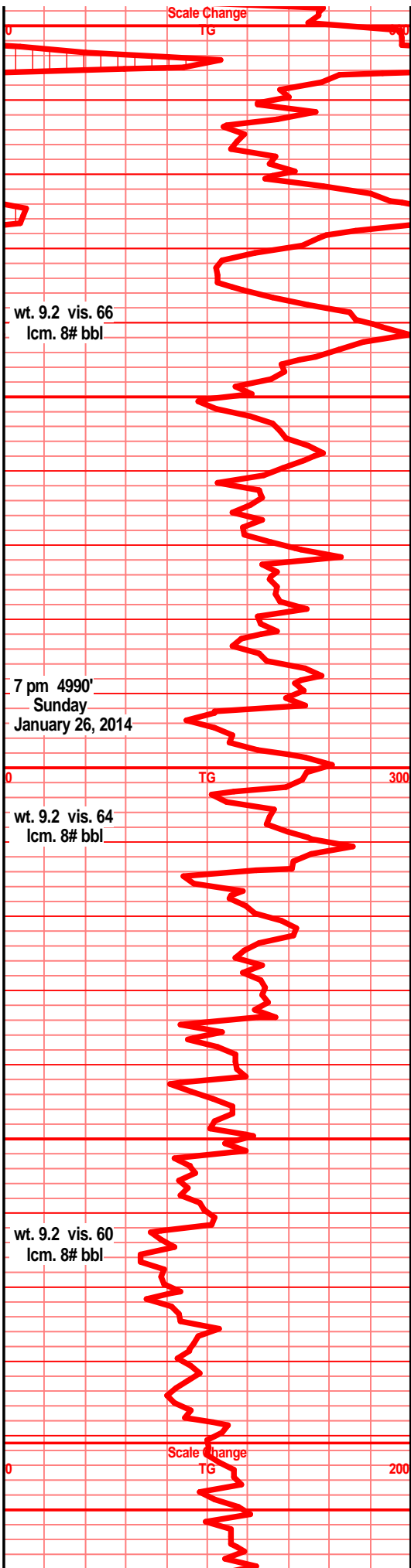
dolo f vf xln, drk gry, silty, silic text, dns shly

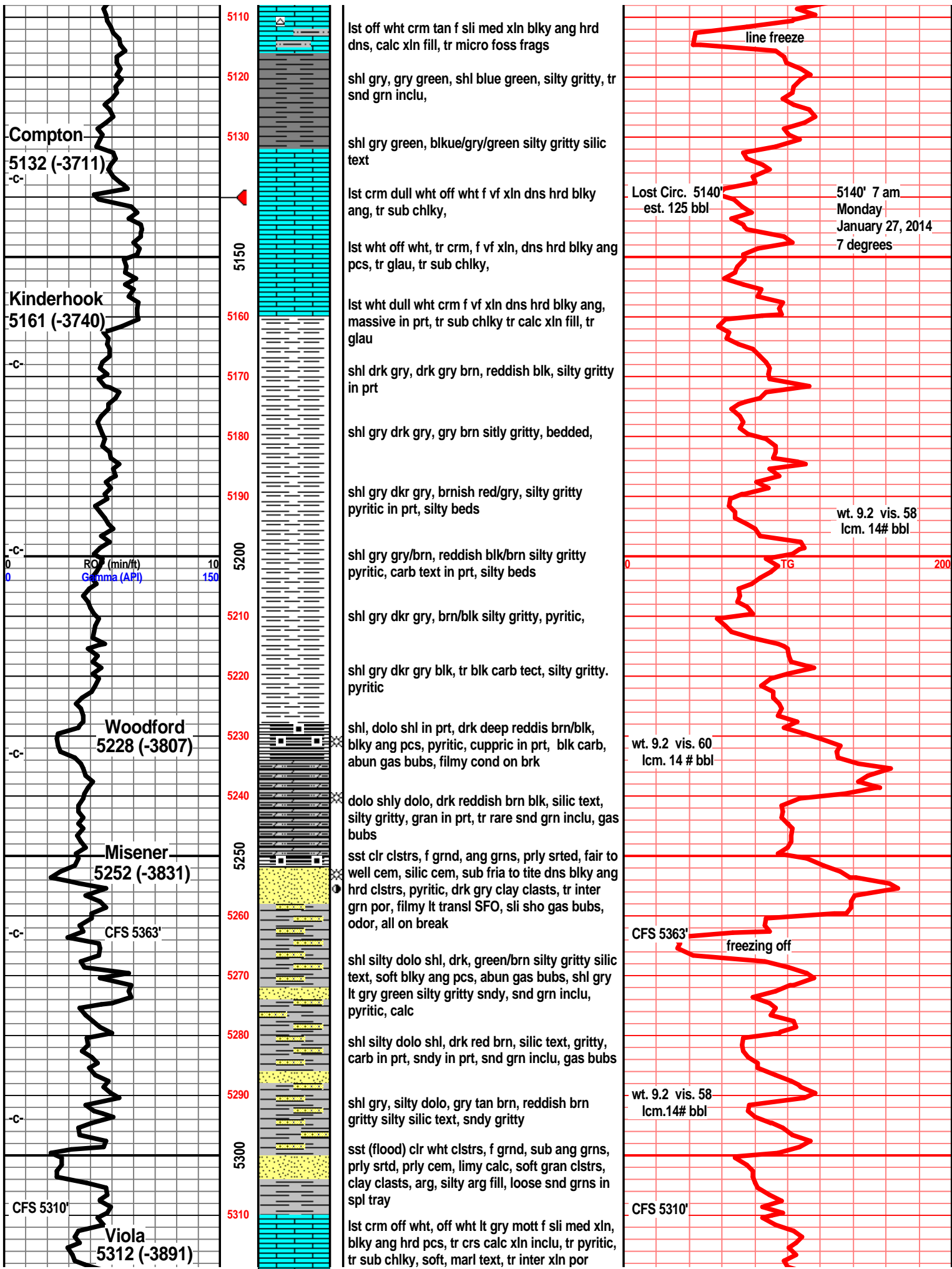
lst wht off wht, f sli med xln, blk ang dns tr sub chlky, chrt wht off wht sub opa, shrp frsh

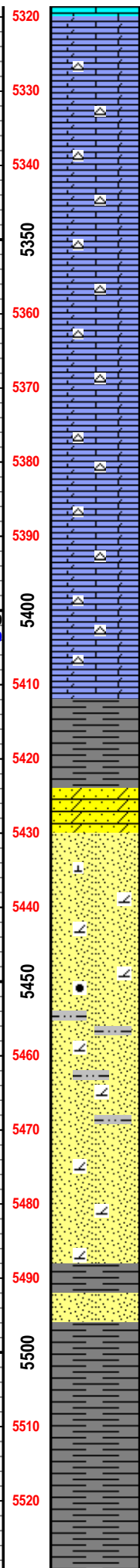
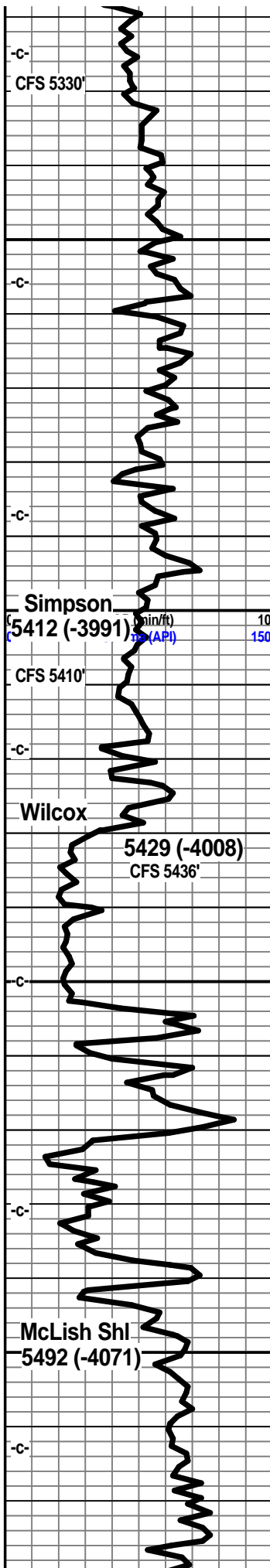
lst crm tan f sli med xln, blk ang dns hrd, tr sub chlky, tr crs calc xstls, chrt wht opa shrp frsh

lst wht crm tan f sli med xln, blk ang dns hrd, tr sub chlky, calc xln fill chrt aa

lst wht off wht crm f sli med xln, blk dns ang, tr sub chlky, calc xln fill/xstls, chrt wht shrp frsh opa







lst off wht gry mott f sli med xln, blkly ang tr sub chlky, inter xln por, tr crs calc xln inclu, tr foss frags. pyritic, dolo gry tan f xln dns hrd gran gritty to soft chlky

lst crm tan, dolo in prt, tr gry tan mott, f sli med xln blkly ang sub chlky, foss frags, tr crs calc xstls inclu, chrty, chrt wht off wht shrp frsh opa, pyritic in ptr

lst/dolo, crm tan lt brn, f xln blkly ang gran pcs, tr sub chlky, tr foss frags, chrty, chrt dull tan brn shrp frsh sub opa

lst dolo drk tan dull tan brn f vf xln blkly ang dns hrd, chrty, tr sub chlky/gran text, chrt dull tan brn shrp frsh sub opa

lst/dolo drk tan brn, f vf xln dns hrd blkly ang, tr sub chlky/gran text, tr foss frags, chrty, chrt dull tan brn shrp frsh sub opa

lst/dolo drk tan crm, lt brn f vf xln, dns, sub chlky gran, silic in prt, chrty in prt, much dull tan brn shrp sub opa chrt

lst/dolo drk crm dull tan brn f vf xln gran tr sub chlky, silic, chrty, tr sndy text, chrt dull tan brn shrp frsh sub opa

lst, dolo drk tan brn, tr drk brn f vf xln gran blkly dns silic, tr chlky soft gran, sndy text, tr inter xln por, tr brn stain, filmy SFO, nodor, dull UV (2-3 pcs), 60" spl-shl, drk gry green blue teal green, slick grsy wxy test.

sst drk gry green f grnd, sub ang grnd, prly srtd pyritic, well cem, silic cem dns blkly ang clstrs

sst off wth tan f grnd, sub ang/ang grns, w/srtd, prly cem, inter grain por, fria soft, tr arg clay fill, sli odor, lt transl SFO, brn oil smears, tr gas bubs

sst off wht wht lt tan clstrs f grnd, sub ang/sub rded, w/srtd, msly w/cem, calc and silic cem, sub fria, tr pyritic, clay clasts, tr arg,

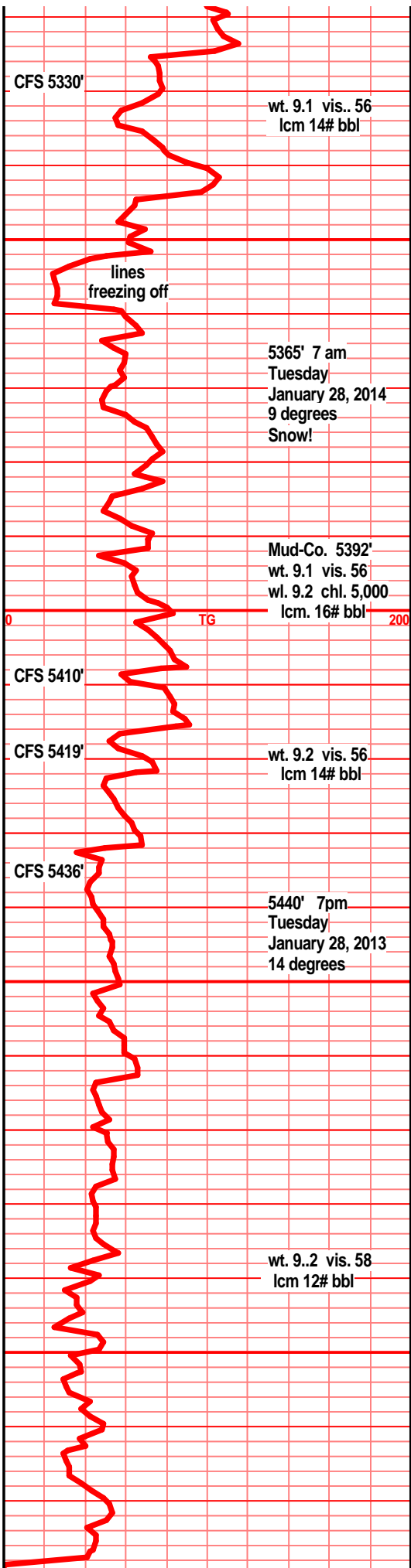
shl gry green teal green w/snd grn inclu, sst wht off wht lt tan f tr vf grnd, sub ang to sub rded grns, fair to prly strd, well cem, silic cem, sub fria, tr pyritic, clay clasts, tr clay fill, tr arg/prt

sst off wht lt gry clstrs, f grnd, sub ang/sub rded grns, fair to w/srtd, v/well cem, silic cem, non-fria, blkly ang dns hrd clstrs, pyritic, clay clasts, arg in prt

shl gry teal green wxy grsy test, sst dull tan lt gry clstrs, f grnd, sub ang/sub rded grns, fair to well srtd, v/well cem, silic cem, dolo text, sub fria, blkly ang dns hrd clstrs, tr clay clasts, drk min specks, tr silts, arg in some

shl gry, dkr gry-green, teal green, fnly silty, snd grn inclu, pyritic bands

shl gry, drk gry-green blue/green teal green wxy grsy text, snd grn inclu, pyritic bands,



wt. 9.1 vis.. 56 lcm 14# bbl


5365' 7 am Tuesday January 28, 2014 9 degrees Snow!

Mud-Co. 5392' wt. 9.1 vis. 56 wt. 9.2 chl. 5,000 lcm. 16# bbl

wt. 9.2 vis. 56 lcm 14# bbl

5440' 7pm Tuesday January 28, 2013 14 degrees

wt. 9..2 vis. 58 lcm 12# bbl

	RTD 5535 (-4114)						
-c-							
0	ROP (min/ft)	10		0			
	Gamma (API)	150					
Bill Klaver				Geologist			

5530

5540

5550

5560

5570

5580

5590

5600

5610

5620

5630

5640

5650

5660

5670

5680

5690

00

shl gry dkdr gry green, blue gry teal green,  
wxy grsy text, pyritic bands, sand grn inclu

E-log total depth was 12' shallow to rotary  
depth. Difference in formation tops beteen  
rotary sample tops and e-log tops increase  
from 1 foot at the Stark Shale to 12 feet at the  
top of the Simpson. Error not explained.

Woolsey Operating Company  
Mikita #1  
600' FNL & 2310' FWL  
Irregular Section  
Sec 17-T35S-R12W  
Hardtner Field  
Barber County, Kansas  
API # 15-007-24124-00-00

Circ/E-log 5535'			RTD 3 am 5535' Wednesday
0	TG	200	
Bill Klaver			Geologist