



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1214690
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: _____

1214690

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: 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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 063217

Federal Tax I.D. # 20-8651475

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

AUG 20 2014

SERVICE POINT:
Medicine Lodge Ks

DATE <u>7-19-14</u>	SEC. <u>19</u>	TWP. <u>32s</u>	RANGE <u>12w</u>	CALLED OUT	ON LOCATION <u>10:00P</u>	JOB START <u>11:45P</u>	JOB FINISH <u>12:15A</u>
Warren Fee LEASE	WELL# <u>11</u>		LOCATION <u>Gyp Hills Rd 4s to GG outside Barber</u>			COUNTY <u>Barber</u>	STATE <u>Ks</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)			Follows White Rock lease Rd				

CONTRACTOR Fossil Drilling OWNER Woolsey

TYPE OF JOB Surface
 HOLE SIZE 17 1/2 T.D. 235
 CASING SIZE 13 3/8 48# DEPTH 235
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 20'

CEMENT LEFT IN CSG. 20'
 PERFS. _____
 DISPLACEMENT 32 1/4

EQUIPMENT

PUMP TRUCK CEMENTER Jack Heard
 # 548/545 HELPER Justin Bower
 BULK TRUCK
 # 381 DRIVER Robert Johnson
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

On Location Safety Meeting
Rig up Safety meeting P Test
Pump Spacer mixt pump cmt
Start Displacement Slow Rate
Stop Shut in Release pressure

Cmt D:d circ

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

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.

PRINTED NAME MIKE TEARP
 SIGNATURE [Signature]

CEMENT
 AMOUNT ORDERED 300 sx Class A +
2 1/2 Gel + 3 1/2 cc

COMMON A 300 sx @ 17.90 5370.00
 POZMIX _____ @ _____
 GEL 564 @ .50 282.00
 CHLORIDE 846 @ 1.10 930.60
 ASC _____ @ _____

WELL FILE

Regulatory
 Drilling
 Tests / Meter
 Correspondence
 Workovers
 Operations

HANDLING _____ @ _____
 MILEAGE 20% = 1316.52 TOTAL 6582.60

SERVICE

DEPTH OF JOB 235
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE 20 12 @ 4.40 52.80
 MILEAGE 12 @ 7.70 92.40
 MANIFOLD _____ @ _____
Handling 315 @ 2.48 781.20
Mileage 177.66 @ 2.75 488.56
20% = 585.44 TOTAL 2927.21

PLUG & FLOAT EQUIPMENT

TOTAL _____
 SALES TAX (If Any) _____
 TOTAL CHARGES 9509.81
 DISCOUNT _____ IF PAID IN 30 DAYS
Net 7607.84

ALLIED OIL & GAS SERVICES, LLC 063147

Federal Tax I.D. # 20-8661475

AUG 27 2014

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

SERVICE POINT:
MEDICINE LODGE 1CS

DATE 7-27-14	SEC. 19	TWP. 32 S	RANGE 12 W	CALLED OUT 9:00 AM	ON LOCATION 12:00 PM	JOB START 3:25 PM	JOB FINISH 4:10 PM
LEASE WARREN FEB	WELL# 11	LOCATION 160 GYP HILL RD 4.5 TO CG.		COUNTY BARBER	STATE ICS		
OLD OR NEW (Circle one)		ON WEST SIDE STAY ON MAIN LEASE RD					

CONTRACTOR <u>Fossil</u>	OWNER <u>WOOLSEY ENERGY</u>
TYPE OF JOB <u>PRODUCTION</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4906</u>
CASING SIZE <u>4 1/2</u>	DEPTH <u>4738</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>2500#</u>	MINIMUM
MEAS. LINE	SHOE JOINT <u>33</u>
CEMENT LEFT IN CSG. <u>33 FT</u>	
PERFS.	
DISPLACEMENT <u>73 BBL FRESH H2O</u>	

EQUIPMENT

PUMP TRUCK CEMENTER <u>SCOTT FRIDY</u>	
# <u>892/553</u> HELPER <u>JASON THIMISCH</u>	
BULK TRUCK	
# <u>819/823</u> DRIVER <u>RON GILLEY</u>	
BULK TRUCK	
#	DRIVER

CEMENT	AMOUNT ORDERED <u>90SK 60'40:4% GEL</u>
	<u>100SK CLASS H 10% EYP 10% SALT</u>
	<u>6' Kaseal .890 PL-160 1/4" Plossgal</u>
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
Class H 100 SK	@ 25.28 2528.00
Gyoscal 940 "	@ .88 827.20
SALT 540 "	@ .68 367.20
Kaseal 600 "	@ .98 588.00
PL-160 75.2 "	@ 18.90 1421.28
Plossgal 25 "	@ 2.97 74.25
Allied 60'40:4 90 SK	@ 18.92 1702.80
Clapes 8.5 qnl	@ 344.0 292.40
HANDLING	@
MILEAGE	
20% = 1560.23	TOTAL 7801.13

REMARKS:

ON LOCATION / RUN CASING
SAFELY MOUNTING, SPOT IN RIG UP
PRESSURE TEST PUMP SPACER, PLUG
RAY HOLE, PLUG MOUSE HOLE, PUMP
CEMENT, SHUT DOWN CLEAN LINES
START DISPLACEMENT, SLOW RATE 1000
OUT BUMP PLUG, RELEASE PRESSURE
FLOYD DID HOLD

SERVICE

DEPTH OF JOB <u>4738</u>	
PUMP TRUCK CHARGE	<u>2765.75</u>
EXTRA FOOTAGE <u>12</u>	@ 4.40 52.80
MILEAGE <u>12</u>	@ 7.70 92.40
MANIFOLD <u>1 HEAD</u>	@ 275.00
Handling <u>226.24</u>	@ 2.48 561.09
Mileage <u>113.92</u>	@ 2.75 318.78
20% = 813.16	TOTAL 4065.81

CHARGE TO: WOOLSEY ENERGY

STREET WELL FILE
CITY STATE ZIP

Regulatory Correspondence
Drift Comp Workovers
Tests / Meters Operations

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.

PLUG & FLOAT EQUIPMENT

<u>4 1/2</u>	
1 LD Baffle Plug	@ 655.00
1 AFU Float shoe	@ 425 425.00
16 Reap Scrubbers	@ 86.00 1376.00
8 Turbochargers	@ 90.00 720.00
	@
	TOTAL 3176.00

SALES TAX (If Any) _____
TOTAL CHARGES 15,042.94
DISCOUNT 12,669.55 IF PAID IN 30 DAYS

PRINTED NAME MIKE THARP

SIGNATURE Mike Tharp



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woosley Operating Co. LLC.

19-32s-12w Barber,KS

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Warren Fee #11

Job Ticket: 54159

DST#: 1

ATTN: Bill Klaver

Test Start: 2014.07.24 @ 23:00:59

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:15:14

Time Test Ended: 07:38:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 68

Interval: 4445.00 ft (KB) To 4505.00 ft (KB) (TVD)

Reference Elevations: 1656.00 ft (KB)

Total Depth: 4505.00 ft (KB) (TVD)

1644.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8790

Inside

Press@RunDepth: 48.05 psig @ 4449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.24

End Date:

2014.07.25

Last Calib.:

2014.07.25

Start Time: 23:01:04

End Time:

07:38:29

Time On Btm:

2014.07.25 @ 01:10:44

Time Off Btm:

2014.07.25 @ 05:48:29

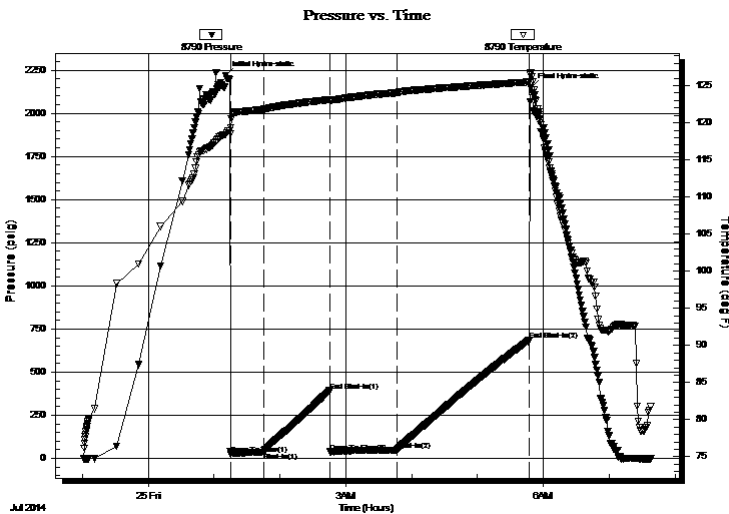
TEST COMMENT: IF: Strong blow . BOB @ 4 1/2 min.

IS: No blow

FF: Fair blow . 4 - 6".

FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.16	118.44	Initial Hydro-static
5	25.80	119.31	Open To Flow (1)
35	38.16	121.82	Shut-In(1)
95	391.99	123.13	End Shut-In(1)
95	38.09	122.95	Open To Flow (2)
156	48.05	124.04	Shut-In(2)
277	683.71	125.50	End Shut-In(2)
278	2150.29	126.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 2%, 98% m	0.44
0.00	555' GIP	0.00
0.00	Hvy OsptdM in Hyd. Tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woosley Operating Co. LLC.

19-32s-12w Barber,KS

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Warren Fee #11

Job Ticket: 54159

DST#: 1

ATTN: Bill Klaver

Test Start: 2014.07.24 @ 23:00:59

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:

4000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.08 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	OCM 2%o, 98%m	0.443
0.00	555' GIP	0.000
0.00	Hvy OsptdM in Hyd. Tool	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

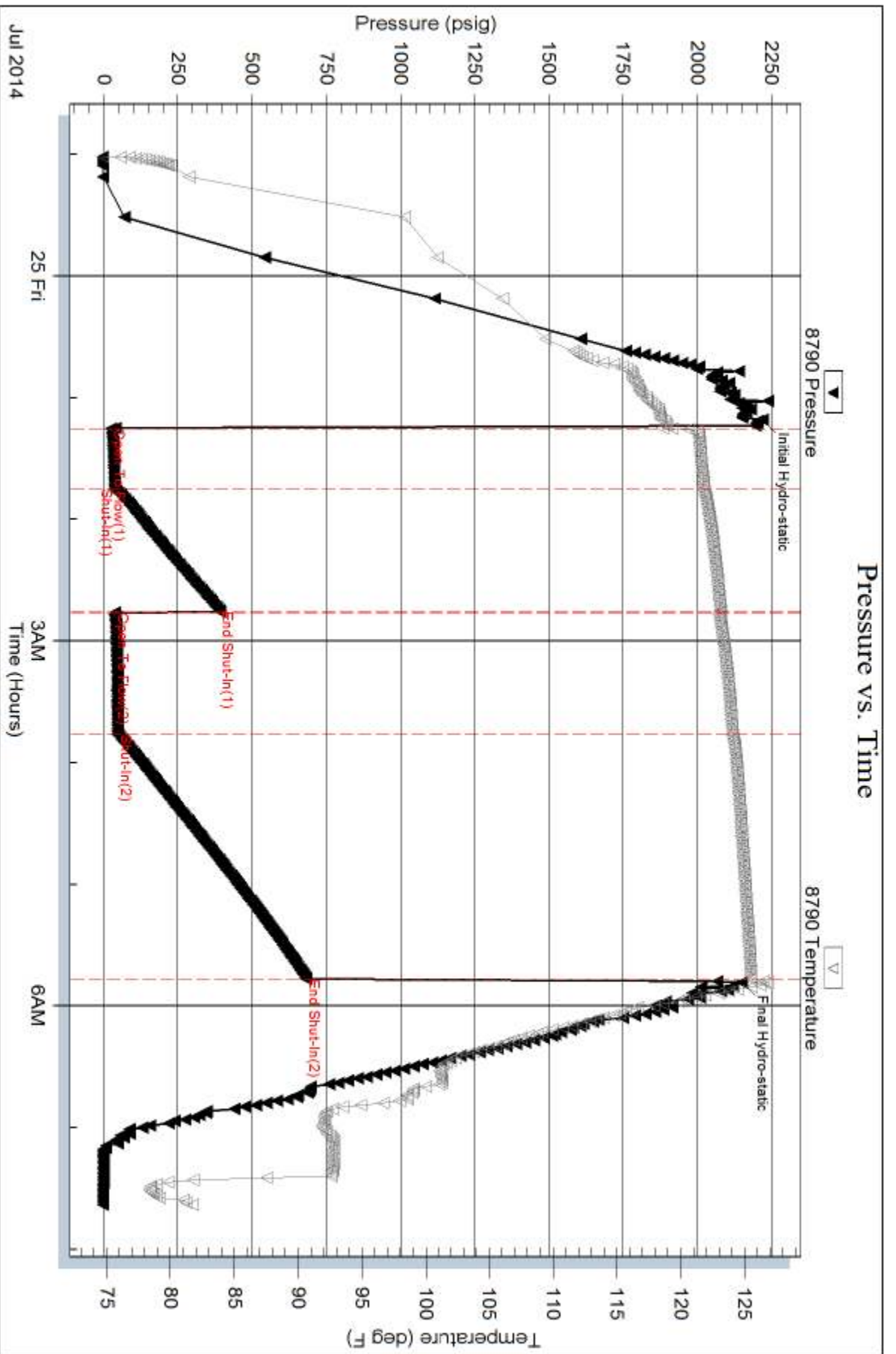
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





Woolsey Operating Company, LLC

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

Well Name: Warren Fee #11
Location: Section 19 - Township 32 South - Range 12 West
License Number: 15-007-24190-00-00 Region: Barber County, Kansas
Spud Date: July 19, 2014 Drilling Completed: July 26, 2014
Surface Coordinates: 1900' FNL and 1950' FWL
App. SE NW SE NW
Bottom Hole Coordinates:
Ground Elevation (ft): 1644' K.B. Elevation (ft): 1656'
Logged Interval (ft): 3600' To: 4905' Total Depth (ft): 4905'
Formation: Lansing/Kansas City ----> Simpson Group
Type of Drilling Fluid: Chemical Mud

Printed by MUD.LOG 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: Bill Klaver
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Spud at 5 pm on July 19, 2014, set 5 joints of 13 3/8" X 48#/ft new surface casing at 235' KB (tally 219.9). Cemented with 300 sx Class A, 2% gel, 3% cc (by Allied). Plug down at 12:15 am on July 20, 2014. Cement did circulate.

Production Casing: 4 1/2" X 10.5#/ft

Deviation Surveys: 1 at 235', 1/4 at 1015', 3/4 at 1520', 3/4 at 2026', 3/4 at 2501', 1/4 at 3008', 1/2 at 3515', 1/2 at 3990', 1 at 4505', 1 at 4905'.

Pipe Strap @ 4505', Strap: 4530.44', Board: 4527.95'. Strap 2.49' long. No correction was made to the board.

Fossil Drilling Co. Rig #3 Bit Record:

- 1) 17 1/2" Smith RR in at 0' out at 234'. 3.5 hours
- 2) 7 7/8" Varel HE-21 in at 234', out at 4505', 84 hours
- 3) 7 7/8" Varel HE-29 RR in at 4505' out at 4905', 29 1/2 hours.

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud System: Mud-Co. Brad Bortz, Engineer

DSTs: Trilobite Testing, Ryan Reynolds, Tester

E-Logs: Pioneer Wireline Services, Dual Compensated Porosity, Dual Induction, Caliper, Gamma Ray, PE.

Doug Kerr, Engineer




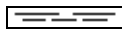
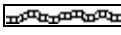



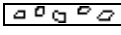



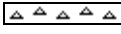



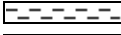




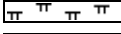







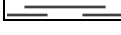


DSTs

DST #1 4445'-4505', 30"-60"-60"-120". SB BOB in 4 1/2 minutes, weak 6" blow throughout the 2nd flow period.
 Rec: 555' GIP, 90' SOCM (2%Oil, 98%Mud). IHP 2220, IFP 25-38, ISIP 391, FFP 38-48, FSIP 683, FHP 2150. BHT 126 degrees.

CREWS

Jim Wenrich (Part Time) Tool Pusher
 Daniel Orrantea, Daylights
 Ron Burns, Evening
 Jimmie Holt, Morning
 Chris Statts, Relief

ROCK TYPES

	Anhy		Shy dolo		Siltst		Shale 3
	Bent		Dol		Ss		Silty dol
	Brec		Gyp		Black sh		Dol lmst
	Cht		Sdy lmst		Gry sh		Dol 2
	Clyst		Lmst		Shale		Granite wash
	Coal		Mrlst		Shysiltst		Lmst
	Congl		Salt		Sltlysh		Calc dol
	Sdy dolo		Shale		Ss 2		Shale 3

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

-
-

- Fuss
- Oomoldic

MINERAL

- Anhy
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Ferrpel
- Ferr
- Glau
- Gyp
- Marl
- Nodule
- Phos
- Pyr

-
-
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-
-

- Salt
- Sandy
- Silt
- Chlorite
- Dol
- Sand
- Slty

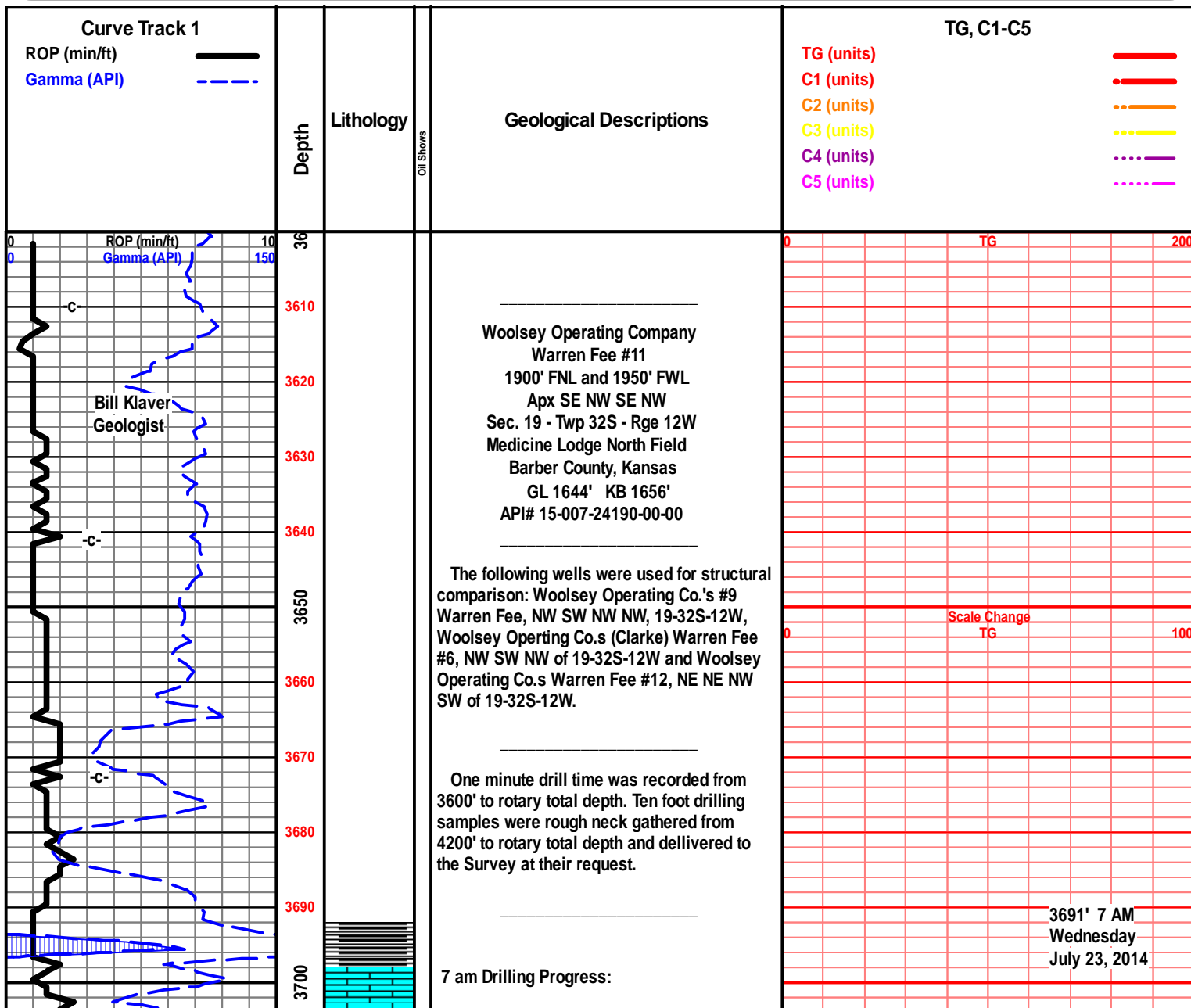
STRINGER

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

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

TEXTURE

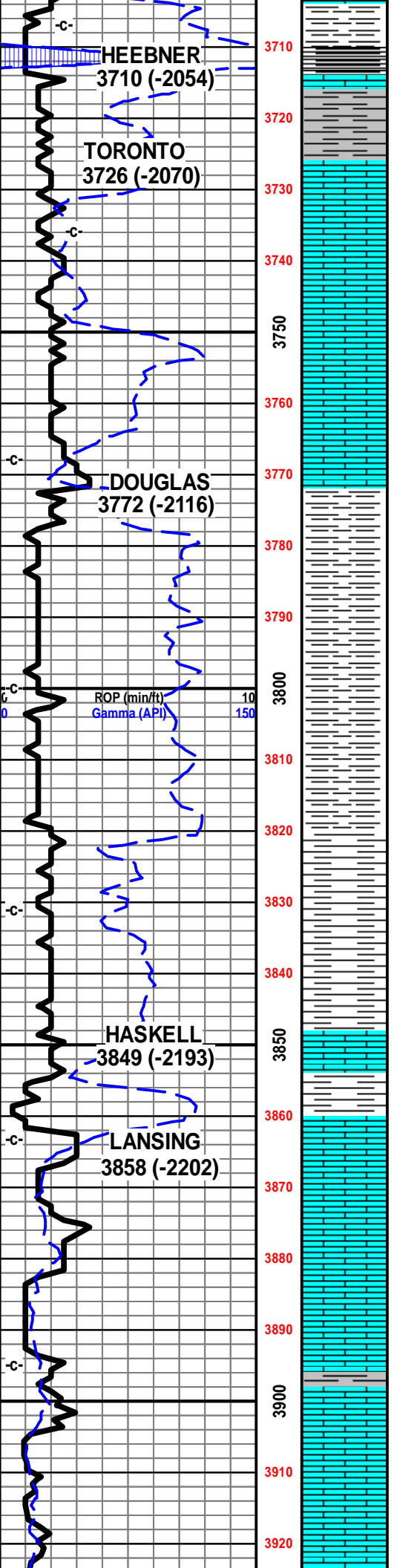
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest



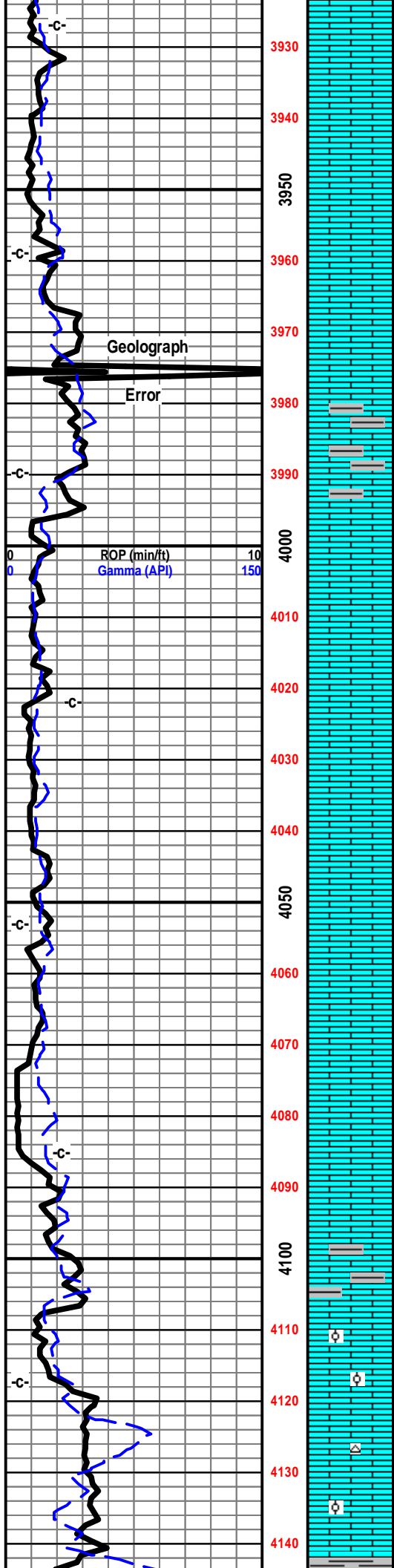
July 19, 2014 MIRT/SPUD
 July 20, 2014 WOC (drill plug 8:15 am)
 July 21, 2014 Drilling at 1840'
 July 22, 2014 Drilling at 2780'
 July 23, 2014 Drilling at 3691'
 July 24, 2014 Drilling at 4328'
 July 25, 2014 TOO H w/DST #1 at 4505'
 July 26, 2014 Drilling at 4750'
 July 27, 2014 E-logs out 5 am

E-Log Tops

- Herrington 1961 (-305)
- Onaga 2778 (-1122)
- Wabaunsee 2834 (-1178)
- LeCompton 3503 (-1847)
- Kanwaka 3547 (-1891)
- Elgin Sand DND
- Heebner 3708 (-2052)
- Toronto 3731 (-2075)
- Douglas Group 3749 (-2093)
- Douglas Shale 3777 (-2121)
- Brown Lime 3852 (-2196)
- Lansing 3862 (-2206)
- Iola 4147 (-2491)
- Dennis 4245 (-2589)
- Stark 4276(-2620)
- Swope 4282 (-2626)
- Hushpuckney 4314 (-2658)
- Hertha 4324 (-2668)
- B/Kansas City 4370 (-2714)
- Pawnee 4422 (-2766)
- Mississippi 4444 (-2788)
- Keokuk Porosity 4444 (-2788)
- Keokuk Porosity Base 4463 (-2807)
- Compton 4560 (-2904)
- Kingerhook 4626 (-2970)
- Woodford 4693 (-3037)
- Viola 4724 (-3068)
- Simpson 4817 (-3161)
- Wilcox 4847 (-3191)
- McLish Shale 4861 (-3205)
- LTD 4908 (-3252)



0 TG 100



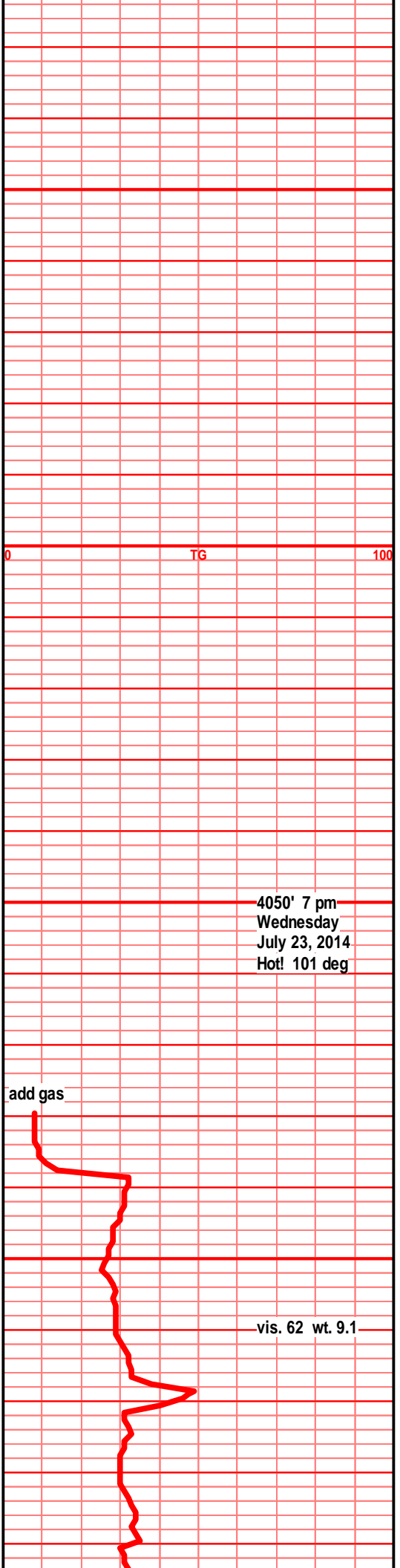
1st crm off wht lt gry f xln gran soft sub chlky, foss frags, foss ool, inter ool por, pelletal, calc xln fill

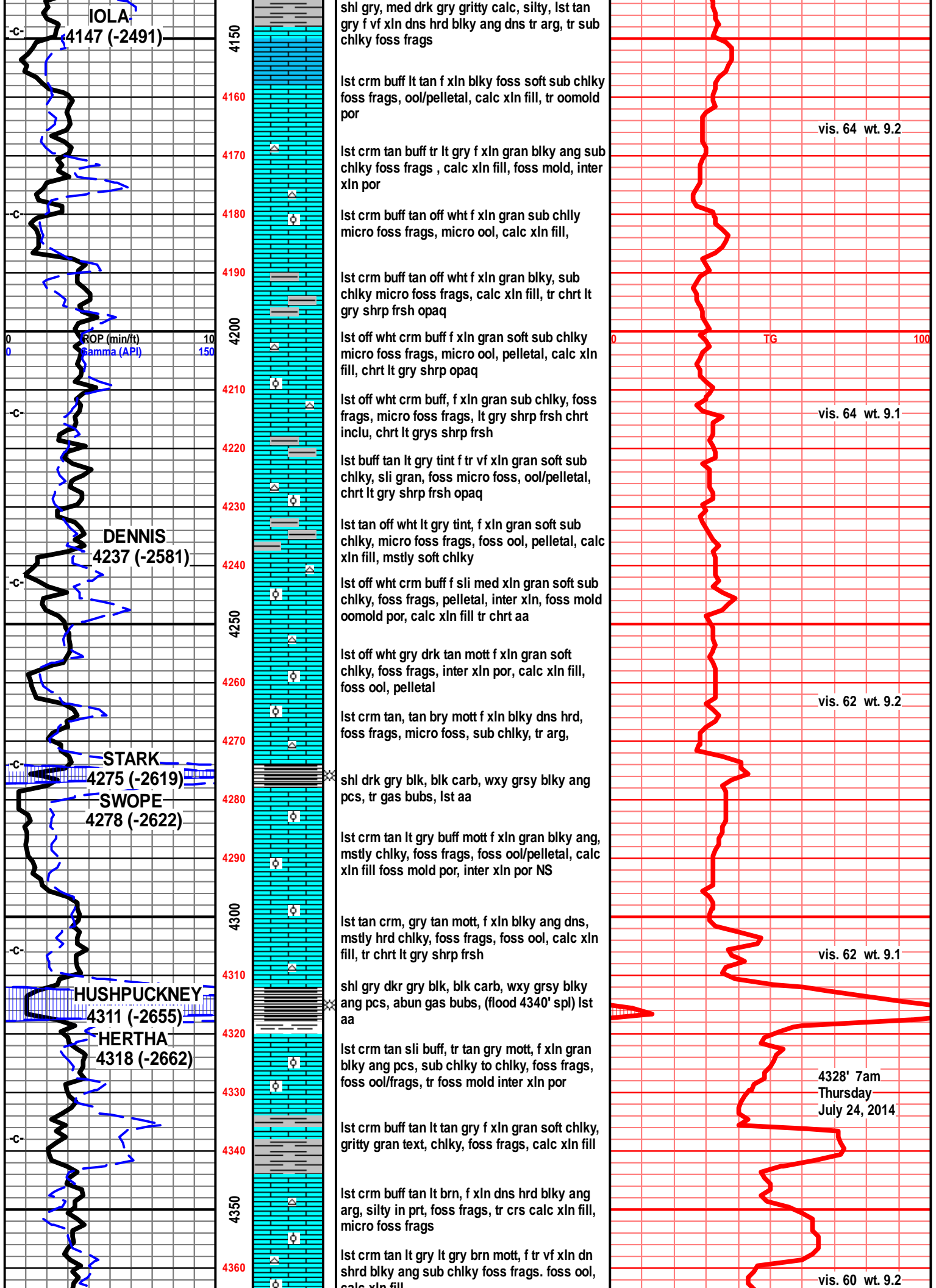
1st crm tan off wht lt gry f xln gran sub chlky, foss frags, calc xln fill, foss ool/pelletal

1st wht off wht lf lt gry f xln gran soft sub chlky, foss frags, foss ool, calc xln fill,

1st off wht lt tan buff f xln gran blkly dns sub chlky foss frags, foss ool/pelletal calc xln fill

1st tan buff off wht f xln gran sub chlky foss frags, ool'pelletal, inter xln por, calc xln fill,





Calc xln m

shls gry med drk gry, green, silty gritty, calc is some, 1st tan tan/gry brn mott f xln gran gritty silty arg tr foss frags, chrt lt gry shrp frsh opa

1st tan, drk tan gry tan mott f xln dns hrd blkly ang gritty arg, silty, sub chlky, foss frags, ool, chrt gry tan shrp frsh opa

1st crm buff tan, tr lt gry, f xln gran blkly sub chlky, gritty, tr sndy in prt, foss frags, micro ool, tr chrt, lt gry shrp frsh

shls gry green, med gry green, silty gritty calc, 1st tan gry f xln dns hrd blkly ang chlky gran gritty, arg in prt.

shls gry green, red brn silty gritty calc, 1st tan gry, gry brn mott f xln gran blkly ang dns, arg, silty, sub chlky, tr micro foss frags,

1st crm/gry mott, f xln blkly ang dns hrd, silty gritty, arg, sub chlky, micro foss frags, tr chrt tan clr opa shrp frsh blkly ang pcs, mucho shls aa

chrt wht off wht tr bone wht, tr lt gry, shrp frsh sub opa, blkly ang shards. chrt crm tan brn mott, tr frsh with weath gran trip text edge, chrt wht tan brn mott, spongy gran trip text, gd moldic, pp por, gd vis por, good odor, abun gas bubs, fair stain, SFO, filmy SFO on spl wtr,

chrt wht off wht, bone wht, lt smokey gry, tr tan lt brn shrp frsh sub opa w/ tan brn tr blk stained weath sli trip text edges, tr chrt with wht tan spongy text, pp moldic por, vug por along edge, SFO, fair odor, gas bubs, oil droplets

chrt wht off wht, lt gry tan in prt, tr tan yellow tint, shrp frsh sub opa, with weath text edges, trip text, some wht tan brn w/weath spongy text, gd vis por, tan brn stain, SFO, filmy SFO on spl wtr gas bubs, fair odor

chrt wht off wht lt smokey gry, shrp, sub opa, frsh blkly ang shards w/ drk brn blk stained sli weath trip text edges, drk brn blk stain, sli odor, gas bubs, SSFO

1st crm buff tan tr lt gry tint f vf xln dns hrd blkly ang pcs, tr chrt, tr chrt inclu,

1st crm buff tan, tr tan/off wht lt grn, f vf xln dns hrd blkly ang, chrt in prt, chrt inclu shrp wht frsh sub opa

1st crm buff drk tan, tr w/lt gry green tint, f vf xln blkly dns hrd, chrt, wht shrp frsh inclu,

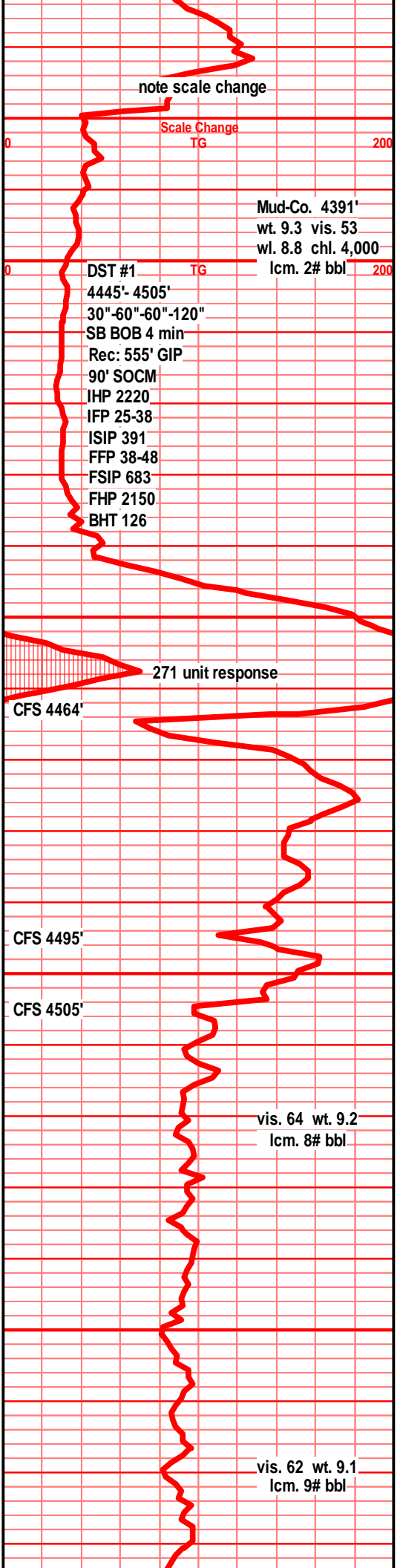
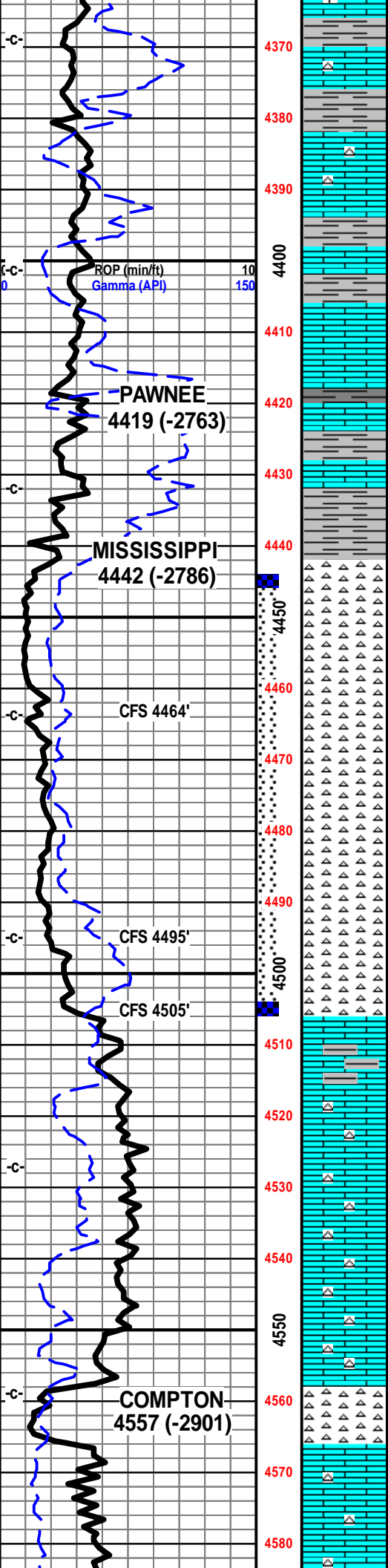
1st crm buff lt gry green in prt, f vf xln, sub chlky in prt, chrt, chrt wht off wht shrp frsh sub opa, blkly ang shrds

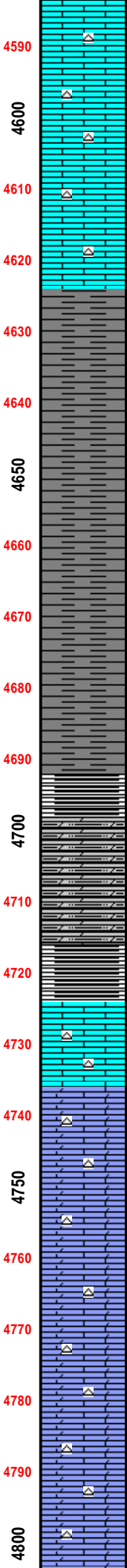
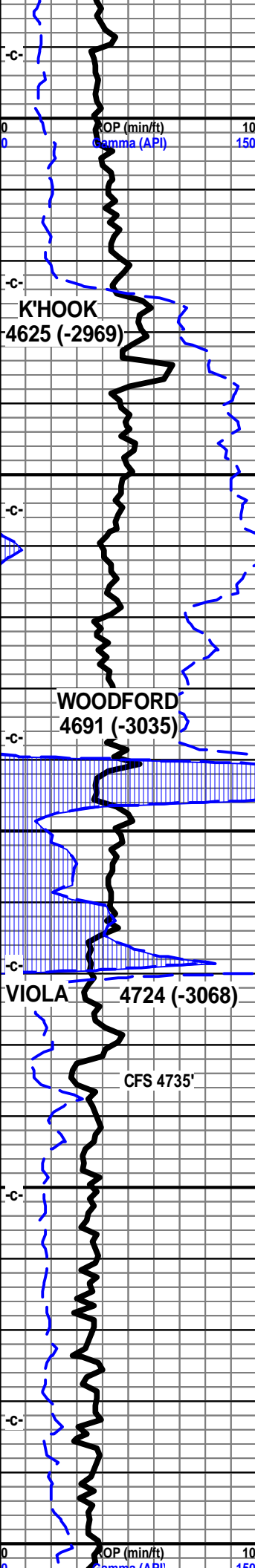
1st crm buff tan f vf xln dns hrd blkly sub chlky, 1st brn reddish f xln gran gritty arg silty

chrt wht off wht, vry lt gry, shrp frsh blkly ang shrp shards, tr with hvy blk edge stain, nodor, nsfo

1st wht off wht, lt tan to tan, f mic xln dns blkly ang hrd, tr sub chlky to firm micro foss frags chrt dull tan/gry shrp

1st off wht drk tan f mic xln dns hrd blkly tr sub





chlky micro foss frags, chrt dull tan/gry shrp frsh sub opa

lst off wht drk tan, f mic xln dns hrd sub chlky, micro foss frags, chrt, chrt dull tan/gry shrp frsh sub opa

lst off wht, tan, drk tan, f mic xln, blk ang dns hrd, micro foss frags, chrt, chrt dull gry/tan shrp frsh sub opa

lst wht off wht tan f mic xln dns hrd blk ang tr sub chlky, micro foss frags, tr calc fill, chrt chrt dull tan/gry shrp frsh sub opa, chrt inclu

shl gry drk med drk gry, bedded, platey, pyritic streaks, silty sli gritty

shl gry med drk gry tr blk, blk ang pcs, bedded, tr pyritic bands, silty gritty

shl drk gry, gry/reddish tint, blk, silty gritty in prt, pyritic, gas bubs

shl gry drk gry blk, drk blk/brn/reddish tint, pyritic in prt, bedded, silty gritty, tr gas bubs

shl gry med gry/blk, tr drk brnsh tint, silty fnly gritty, tr beds, pyritic, gas bubs

shl drk gry blk, tr brn tint, silty fnly gritty, pyritic

shl gry dkr gry blk, silty, gritty bedded

shl blk carb text, dolo silty shly dolo, drk gry reddish blk, blk ang pcs, silty gritty, snd grn inclu, pyritic, abun gas bubs, filmy cond sheen

dolo silty/shly dolo, drk gry med gry/blk, fnly silty gritty tr sli calc, pyritic tr gas

dolo silty dolo drk gry, gry blk, fnly silty tr gritty, tr calc, pyritic

dolo silty dolo, drk gry/blk, reddish blk, blk carb text, silty gritty, tr pyritic, abun gas bubs

lst, dolo in prt, wht off wht lt crm, f med xln tr crs calc xstls, blk ang, gd inter xln por, lt transl SFO, gas bubs, nodor?, blk dead flky stain, tr crsly sucr text, chrt lt gry off wht shrp sub opa,

lst wht gry mott f med xln tr crs xln, blk dns hrd pyritic, chrt, inter xln por, chrt wht off wht tan shrp frsh sub opa

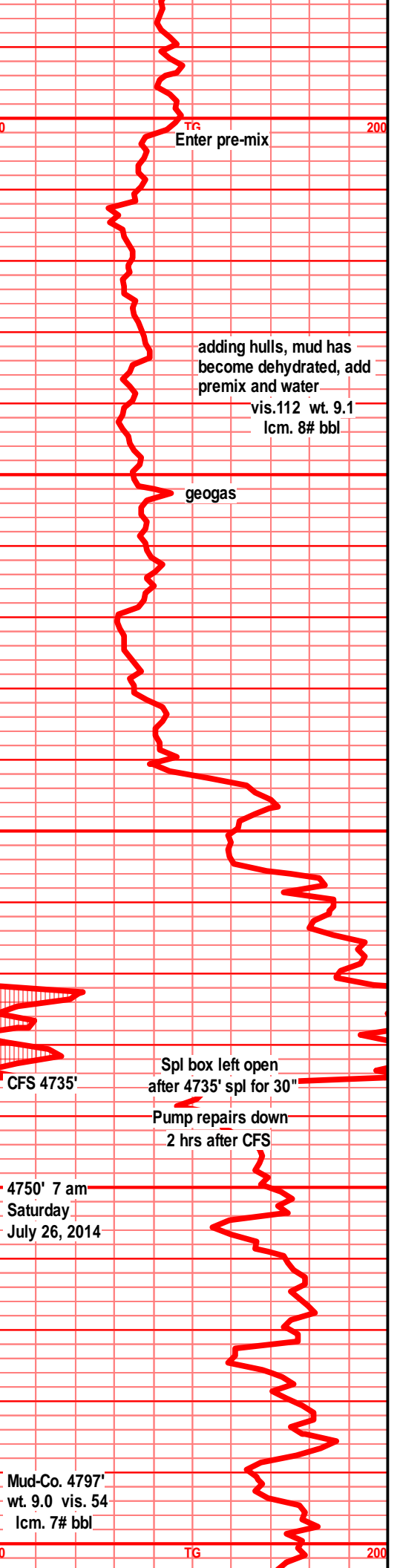
lst/dolo in prt, crm tan lt brn f xln, micro sucr in prt, dns ang hrd pcs, gran gritty tr sndy text, chrt dull tan lt brn shrp frsh sub opa

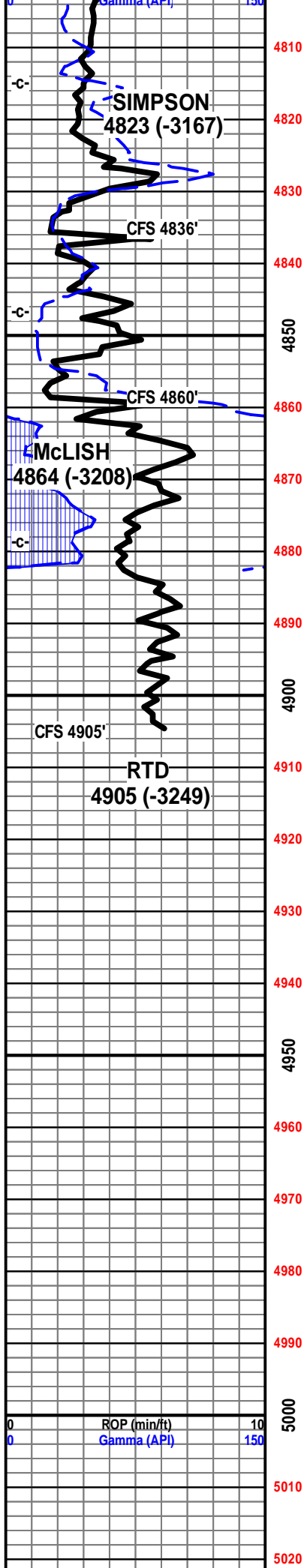
dolo/lst crm tan lt gry/brn f xln, gran, sli sucr sndy text, chrt, chrt dull tan brn shrp frsh sub opa

lst/dolo crm tan brn f vf xln dns blk ang, micro sucr, sndy gritty text, pyritic in prt, chrt, chrt dull tan shrp frsh

lst/dolo crm tan brn f vf xln blk ang hrd pcs, tr sub chlky, micro sucr, gran gritty sli sndy text chrt, chrt dull tan lt brn shrp frsh sub opa

dolo, lst in prt, crm tan dull tan tr drk tan brn f





4810 vln xin blkly ang dns hrd, sli sucr fnly sndy text, chrty, chrty dull tan brn shrp frsh sub opaq

4820 dolo, lst in prt, crm tan dull tan brn, f mic xln dns hrd blkly, sli sucr fnly sndy text, mstly hrd dns, vry chrt, mucho chrt, dull tan brn shrp frsh sub opaq

4830 shl gry green, blue gry teal green slick wxy grsy text, sst gry, gry green, f grnd, sub ang to ang grns, dolo in prt, vry well cem, silic cem, prly srtd, pyritic, hrd blkly ang clstrs NS

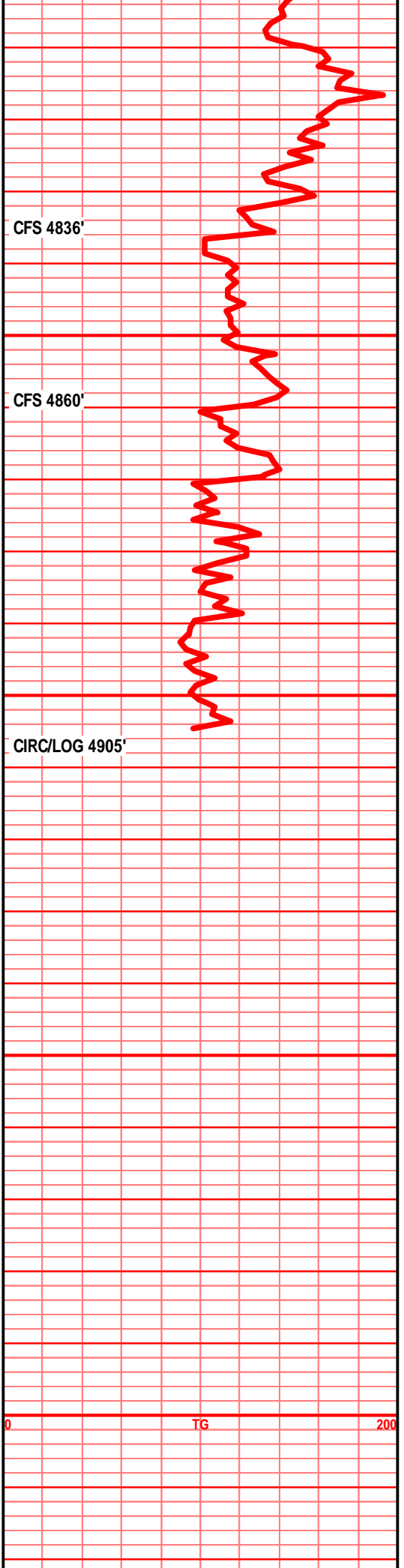
4840 sst gry lt gry tr tan clstrs, f grnd sub ang grnd, fair srtd, w/cem, silic cem, sub fria, blkly ang hrd clstrs, tr clay fill, tr pyritic

4850 sst off wht tan blkly ang clstrs, fn grnd, sub ang grns, fair sorting, f to well cem, silic cem, sub fria in prt, tr inter gran por, tr clay/pyritic fill, much glau in prt

4860 shl drk gry, drk gry green, teal green, slick wxy grsy pcs, pyritic, tr glau

4870 shl gry green teal green, silty gritty in prt, tr snd grn inclu, pyritic, wxy grsy text, blkly ang pcs

4880 shl gry drk gry teal green, slick wxy grsy blkly ang pcs, tr silty gritty, tr snd grn inclu, pyritic,



BILL KLAVER

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Woolsey Operating Company
Warren Fee #11
1900' FNL and 1900' FWL
Apx. SE NW SE NW
Sec. 19 - Twp 32S - Rge 12W
Medicine Lodge North Field
Barber County, Kansas
GL 1644' KB 1656'
API# 15-007-24190-00-00

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