



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1231927
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: _____

1231927

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 063227

Federal Tax I.D. # 20-8651475

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

AUG 27 2014 SERVICE POINT: Medicine Lodge Ks

DATE <u>8-6-14</u>	SEC. <u>19</u>	TWP. <u>32</u>	RANGE <u>12</u>	CALLED OUT	ON LOCATION <u>12:00 Am</u>	JOB START <u>4:35A</u>	JOB FINISH <u>5:45A</u>
LEASE <u>Union Fee</u>		WELL # <u>13</u>		LOCATION <u>Gyp Hills Rd 45 to</u>		COUNTY <u>Barber</u>	STATE <u>Ks</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)		Location <u>White Rock Lease Rd Follow</u>					

CONTRACTOR Fossil
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 4910
 CASING SIZE 4 1/2 11.6# DEPTH 4756
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 31.40'
 CEMENT LEFT IN CSG. 31.40'

OWNER Woolsey
 CEMENT
 AMOUNT ORDERED 90sx 60:40:4% Gel
Sx Class Ht 10% Gyp + 10% Salt +
1qt Kolseal + .8% Fl-160 + 1/4 # Fl-500

PERFS.
 DISPLACEMENT 73.5 2% Kcl water
 EQUIPMENT

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
Class H	100 Sx	@ 25.28	2528.00
Gyp	940#	@ .88	827.20
Salt	540 #	@ .68	367.20
Kolseal	600#	@ .98	588.00
Fl-160	25# 75.24	@ 18.90	1421.28
Allied 60:40:4 90sx		@ 18.92	1702.80
Fl-500	25#	@ 2.97	74.25
Clpro	8.5 Gal	@ 34.40	292.40
HANDLING	@		

PUMP TRUCK CEMENTER Jake Heard
 # 548/545 HELPER Justin Bower
 BULK TRUCK
 # 702/643 DRIVER Ken Jack - Yukon
 BULK TRUCK
 # DRIVER

MILEAGE
 20% = 1560.23 TOTAL 7801.13

REMARKS:

On Location Safety Meeting
Spot in Rig up Run casing
Pressure Test Pump Spacer
Mix + pump Rate Mosaic Holes
Mix + pump Sparger + Tail Cmt
Wash pump lines Release plug
Displace See Lift Slow Rate
Comp plug

SERVICE

DEPTH OF JOB	<u>4756</u>		
PUMP TRUCK CHARGE			<u>2765.75</u>
EXTRA FOOTAGE	<u>12</u>	@ <u>4.40</u>	<u>52.80</u>
MILEAGE	<u>12</u>	@ <u>7.70</u>	<u>92.40</u>
MANIFOLD + Head		@	<u>275.00</u>
Handling	<u>226.24</u>	@ <u>2.48</u>	<u>561.08</u>
Damage	<u>113.92</u>	@ <u>2.75</u>	<u>318.78</u>

20% = 813.10 TOTAL 4065.81

CHARGE TO: Woolsey
 STREET

WELL FILE STATE _____ ZIP _____

Regulatory Correspondence
 Drg / 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

1 LD Plug	@		<u>655.00</u>
1 AFU Float shoe	@		<u>425.00</u>
15 Recip. Scratchers	@	<u>86.00</u>	<u>1290.00</u>
9 Turbalizers	@	<u>90.00</u>	<u>810.00</u>

Ø TOTAL 3180.00

SALES TAX (If Any)

TOTAL CHARGES 15046.94

DISCOUNT (12673.55) IF PAID IN 30 DAYS

PRINTED NAME X MIKE THARP

SIGNATURE X Mike Tharp



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co
 125 N Market Ste 1000
 Wichita, KS 67202
 ATTN: Bill Klaver

19-32S-12W Barber
Warren Fee 13
 Job Ticket: 51819 **DST#: 1**
 Test Start: 2014.08.03 @ 07:57:05

GENERAL INFORMATION:

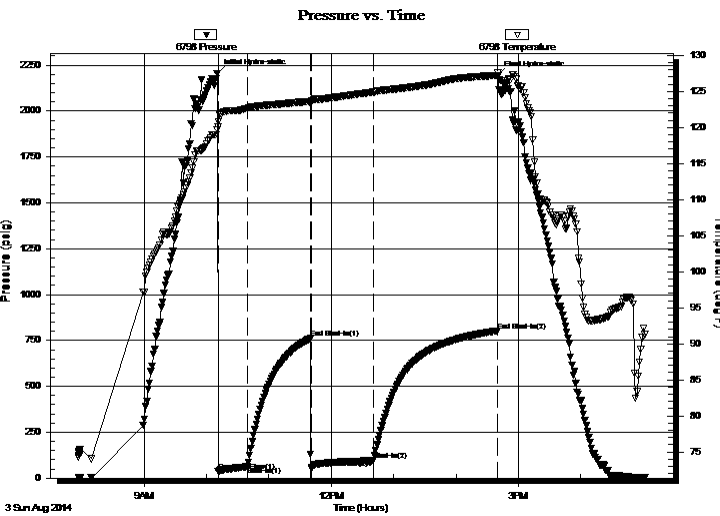
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 10:11:20 Tester: Leal Cason
 Time Test Ended: 17:01:35 Unit No: 74
 Interval: **4434.00 ft (KB) To 4480.00 ft (KB) (TVD)** Reference Elevations: 1649.00 ft (KB)
 Total Depth: 4480.00 ft (KB) (TVD) 1637.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 96.46 psig @ 4435.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.03 End Date: 2014.08.03 Last Calib.: 2014.08.03
 Start Time: 07:57:06 End Time: 17:01:35 Time On Btm: 2014.08.03 @ 10:10:20
 Time Off Btm: 2014.08.03 @ 14:40:20

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
 IS: 1/2 inch Blow Back
 FF: Strong Blow , BOB in 10 seconds
 FS: 1/2 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.87	119.65	Initial Hydro-static
1	36.96	120.07	Open To Flow (1)
30	62.67	122.67	Shut-In(1)
90	760.90	123.62	End Shut-In(1)
91	53.82	123.52	Open To Flow (2)
150	96.46	124.87	Shut-In(2)
270	802.66	127.20	End Shut-In(2)
270	2191.14	127.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	504 GIP	0.00
180.00	GCM 5%G 95%M	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

19-32S-12W Barber

125 N Market Ste 1000
Wichita, KS 67202

Warren Fee 13

Job Ticket: 51819

DST#: 1

ATTN: Bill Klaver

Test Start: 2014.08.03 @ 07:57:05

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:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	504 GIP	0.000
180.00	GCM 5%G 95%M	0.885

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

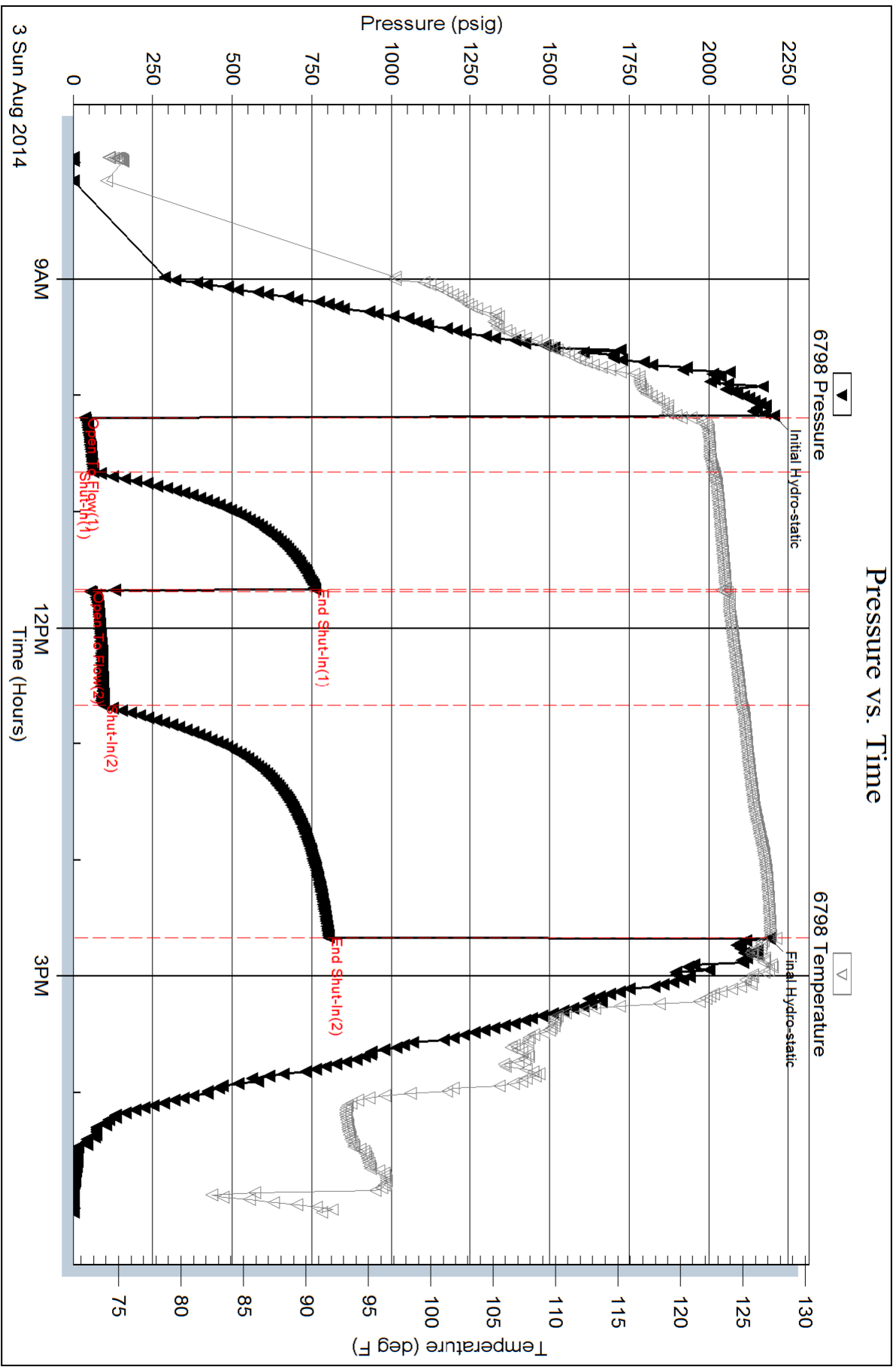
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Woolsey Operating Company, LLC

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

Well Name: **WARREN FEE #13**
Location: **Section 19 - Township 32 South - Range 12 West**
License Number: **15-007-24192-0000** Region: **Barber County, Kansas**
Spud Date: **July 28, 2014** Drilling Completed: **August 5, 2014**
Surface Coordinates: **1380 FSL and 1000' FWL**
App. SE SE NW SW

Bottom Hole
Coordinates:
Ground Elevation (ft): **1637'** K.B. Elevation (ft): **1649'**
Logged Interval (ft): **3600'** To: **4910'** Total Depth (ft): **4910'**
Formation: **Lansing/Kansas City ----> Simpson Group**
Type of Drilling Fluid: **Chemical Mud, displaced at 3419'**

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

Surface Casing: Spud at 2:45 pm on July 28, 2014, Ran 5 joints of new 13 3/8" X 48#/ft casing to 235' KB (tally 220.7). Cemented with 235 sx Class A, 2% gel, 3% cc (by Allied). Plug down at 10:15 pm on July 28, 2014. Cement did circulate.

Production Casing: 4 1/2" X 10/5#/ft

Deviation Surveys: 1 at 235', 1/2 at 1012', 1 at 1518', 1/2 at 2027', 1/4 at 3038', 1 at 3514', 3/4 at 3992', 1 at 4480', 1/2 at 4910'

Pipe Strap @ 4480', Strap: 4498.02', Board: 4498.04'. Strap .02' short to the board, no corrections made to the board.

Fossil Drilling Rig #3 Bit Record:

1) 10 17 1/2" Smith RR in a 0' out at 235', 4 hours.

2) 7 7/8" Varel HE-21 in at 235' out at 4480', 92 3/4 hours

3) 7 7/8" Varel HE-29 RR in at 4480' out at 4910', 29 3/4 hours

Gas Detector: Woolsey Operating Company, Gas Shack #2

Mud System: Mud-Co., Brad Bortz, Engineer

DSTs: Trilobite Testing, Leal Cason, Tester

E-logs: Nabors Completion and Production Services, Dual Induction Laterolog w/SP, CNL/FDC w/PE, Gamma Ray and Caliper. Ian Mabb, Engineer.

DSTs

DST #1 Mississippian, 4434'-4480', 30"-60"-60"-120", SB BOB in 1 minute. Rec: 504' GIP, 180' GCM (5%Gas, 95% Mud). IHP 2205, IFP 36-62, ISIP 760, FFP 53-96, FSIP 802, FHP 2191. BHT 129 degrees

CREWS

Jim (when at the rig) Wenrich, Toolpusher

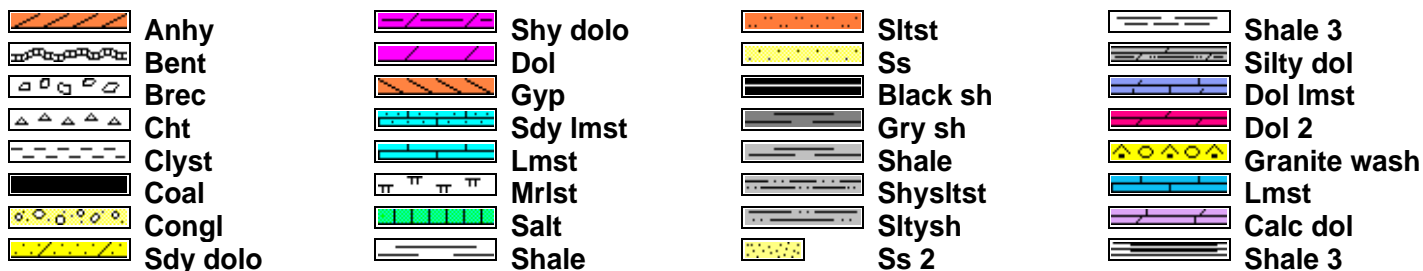
Daniel Orrantea, Days

Ron Burns, Evening

Jimmie Holt, Morning

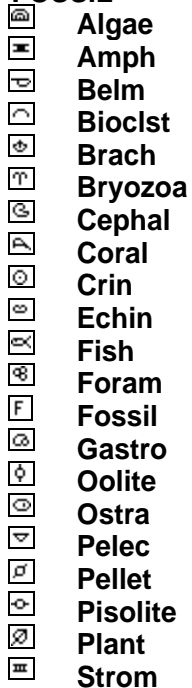
Chris Statts, Relief

ROCK TYPES

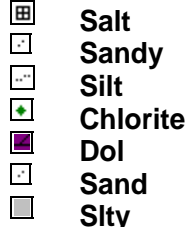
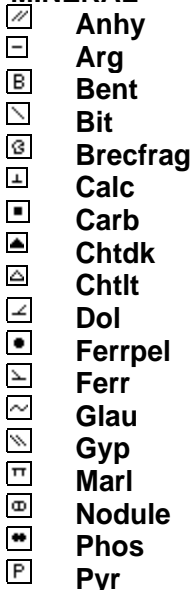


ACCESSORIES

FOSSIL



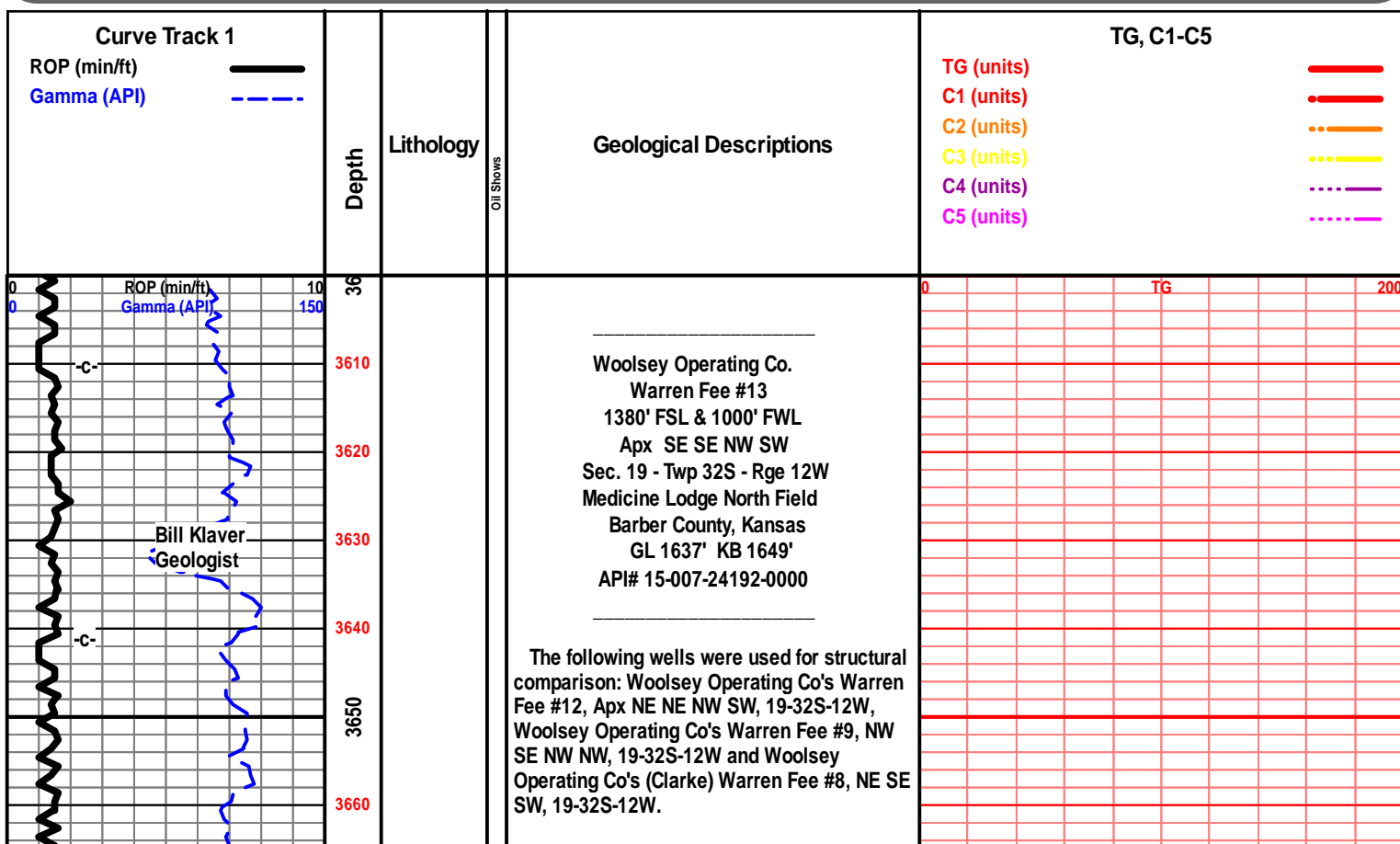
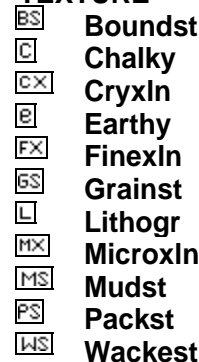
MINERAL



STRINGER



TEXTURE



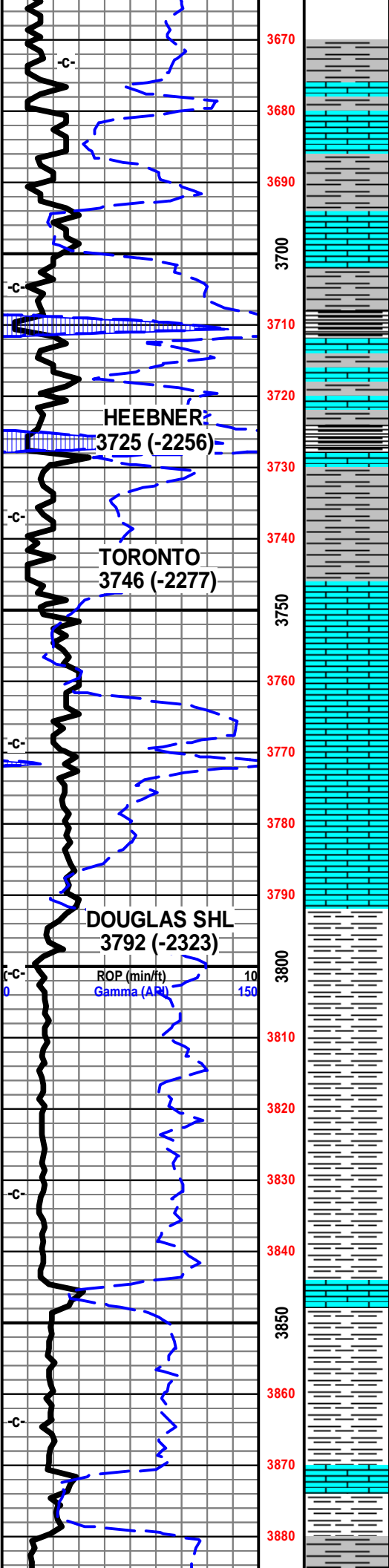
One minute drill time was recorded from 3600' to rotary total depth. Ten foot drilling and circulation samples were roughneck gathered from 4200' to rotary total depth. All samples were delivered to the Survey at the end of the test.

7 am Drilling Progress:

July 28, 2014 MIRT/SPUD
 July 29, 2014 Drilling at 282'
 July 30, 2014 Drilling at 1840'
 July 31, 2014 Drilling at 2674'
 August 1, 2014 Drilling at 3485'
 August 2, 2014 Drilling at 4162'
 August 3, 2014 DST #1 at 4880'
 August 4, 2014 Drilling at 4625'
 August 5, 2014 Drilling at 4890'
 E-logs out 5 pm on August 5, 2014

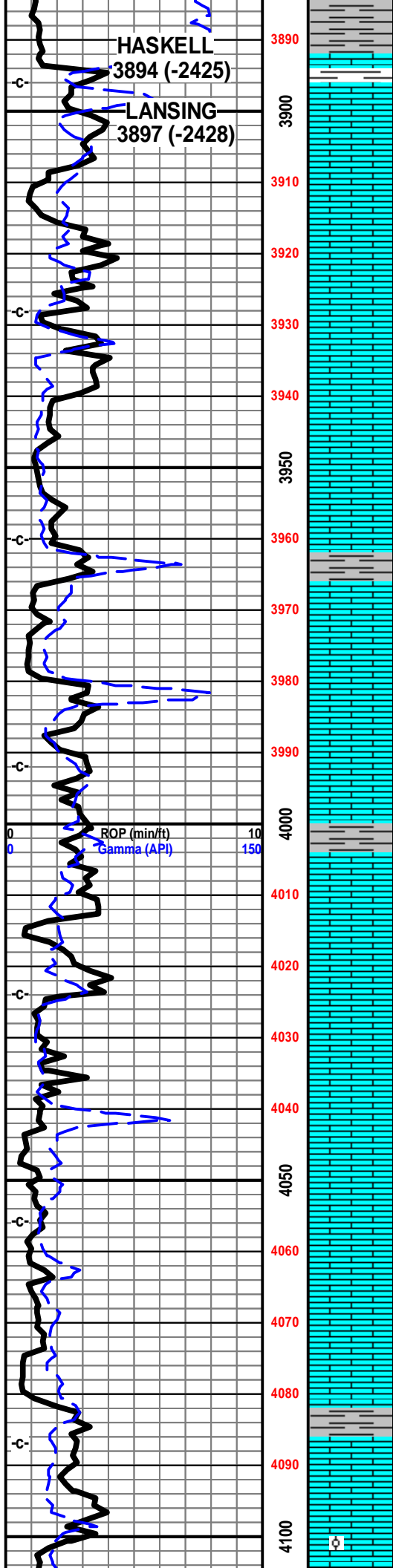
E-Log Tops:

Herrington 1963 (-314)
 Onaga 2778 (-1129)
 Wabaussee 2834 (-1185)
 Stotler 2974 (-1325)
 Topeka 3233 (-1584)
 LeCompton 3500 (-1851)
 Kanwaka 3538 (-1889)
 Heebner 3722 (-2073)
 Toronto 3754 (-2097)
 Douglas Shl 3789 (-2140)
 Haskell 3891 (-2242)
 Lansing 3897 (-2248)
 Iola 4152 (-2503)
 Dennis 4241 (-2592)
 Stark 4268 (-2619)
 Swope 4275 (-2626)
 Hushpuckney 4306 (-2657)
 Hertha 4318 (-2669)
 B/Kansas City 4363 (-2714)
 Pawnee 4414 (-2765)
 Mississippi 4430 (-2781)
 Keokuk Porosity 4461 (-2812)
 Keokuk Porosity Base 4487 (-2838)
 Compton 4561 (-2912)
 Kinderhook 4626 (-2977)
 Woodford 4691 (-3042)
 Viola 4723 (-3074)
 Simpson Group 4818 (-3169)
 Simpson 'D' Sand 4837 (-3188)
 Wilcox 4850 (-3201)
 McLish 4864 (-3215)
 LTD 4908 (-3259)



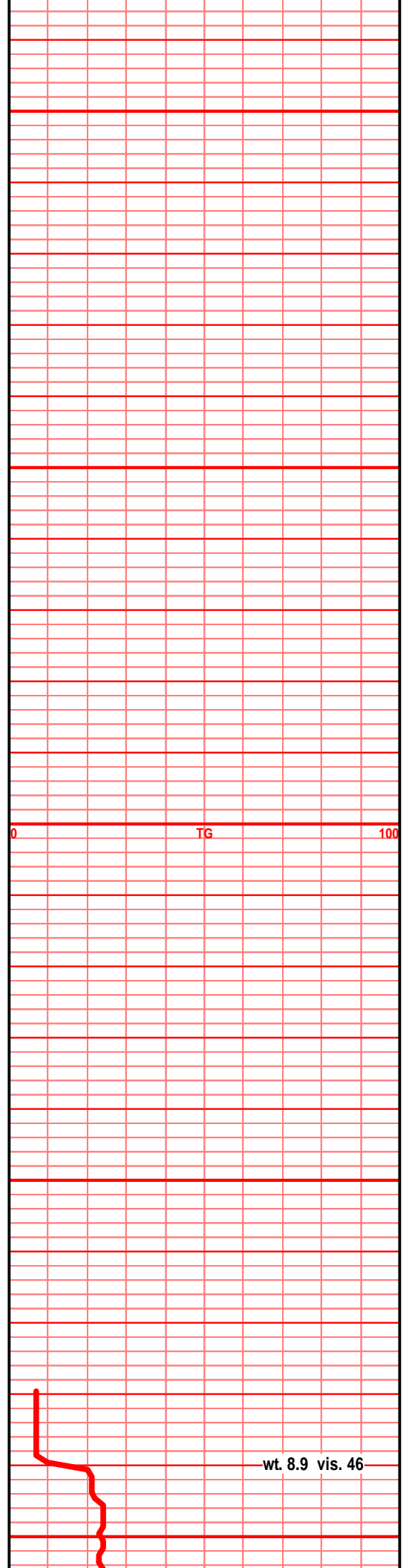
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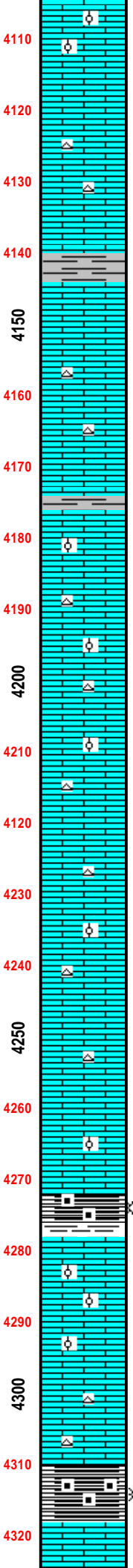
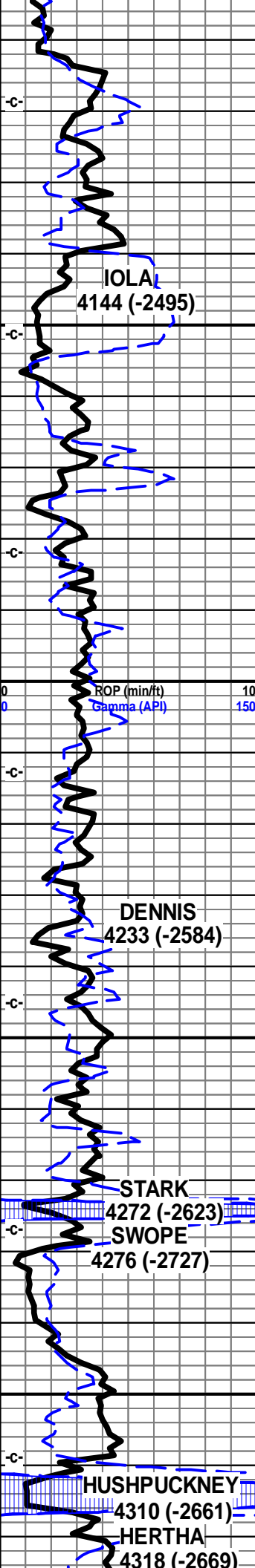
0 TG 100



1st crm off wht tan f xln gran foss frags, foss
 ool, pelletal, calc xln fill

1st crm off wth tan f xln gran soft sub chlky
 foss frags, foss ool pelletal calc xln fill





lst wht crm tan f xln gran soft sub chlky foss frags, foss ool, pelletal, inter xln por, calc xln fill

lt crm tan lt gry f xln gran sub chlky foss frags, calc xln fill, foss ool, pelletal, inter xln por

lst crm tan lt gry f xln blkly ang dns sub chlky foss frags, gran calc xln fill, foss ool, pelletal tr chrt wht lt gry shrp

shl gry calc lst wht tan f xln blkly ang sub chlky foss frags, foss ool, pelletal, calc xln fill, inter foss mold por, inter xln por

lsr crm wht off tan f xln gran soft sub chlky foss frags, foss ool, pelletal, inter xln, foss mold por, soft

lst crm tan lt gry f xln blkly ang bec hrd dns sub chlky foss frags micro foss, pelletal calc xln fill

shl gr drk gry, lst tan lt gry f xln gran arg sub chlky foss frags, calc xln fill

lst crm off wht buff f xln gran soft sub chky, foss frags, calc xln fill, inter xln por,

lst crm buff tan off wht f xln blkly ang sub chlky, foss frags, foss ool, pelletal, calc xln fill, inter xln por

lst crm buff tan f xln gran blkly ang sli sub chlky, foss frags, calc xln fill tr chrt gry shrp frsh opa

lst crm buff tan lt gry f xln gran soft sli arg, sub chlky foss frags, calc xln fill, tr chrt lt gry shrp frsh opa

lst crm gry buff tan f xln gran sub chikly soft, calc xln fill, foss frags, micro foss, inter xln por, chrt gry shrp frsh

lst crm buff tan tr lt gry f xln gran blkly dns soft sub chlky foss frags, calc fill, chrt dull gry shrp frsh

lst tan buff gry f xln dns blkly gran soft sub chlky foss frags calc xln fill, inter xln por

lst buff tan gry f xln gran soft sub chlky foss frags, foss ool, pelletal calc xln fill, foss ool pelletal, chrt lt gry shrp frsh

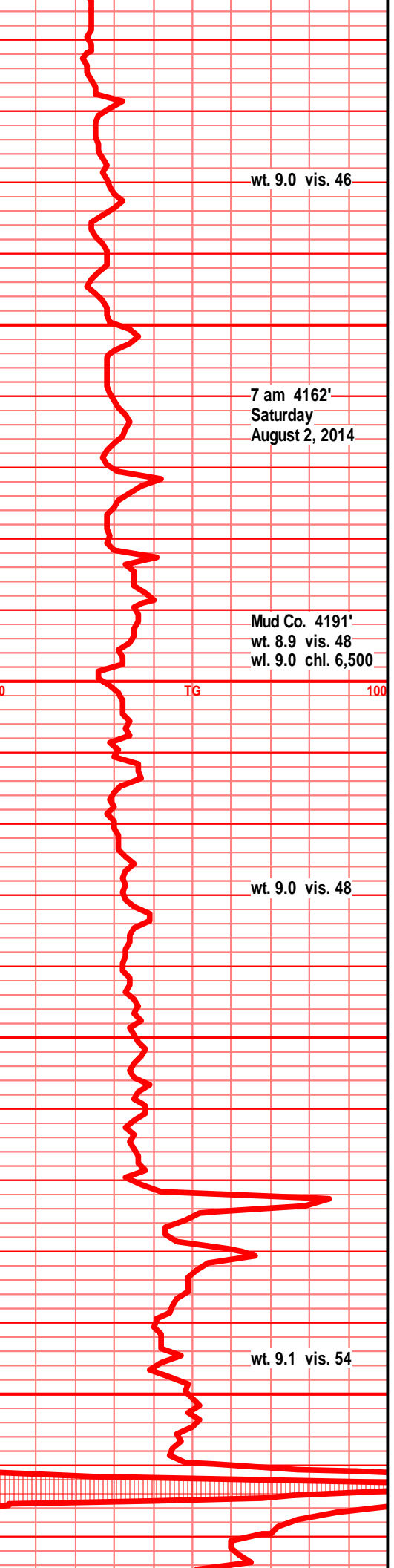
shl drk gry blk, blik carb, wxy grsy text, blkly ang pcs, "spitting" gas, tr filmy cond

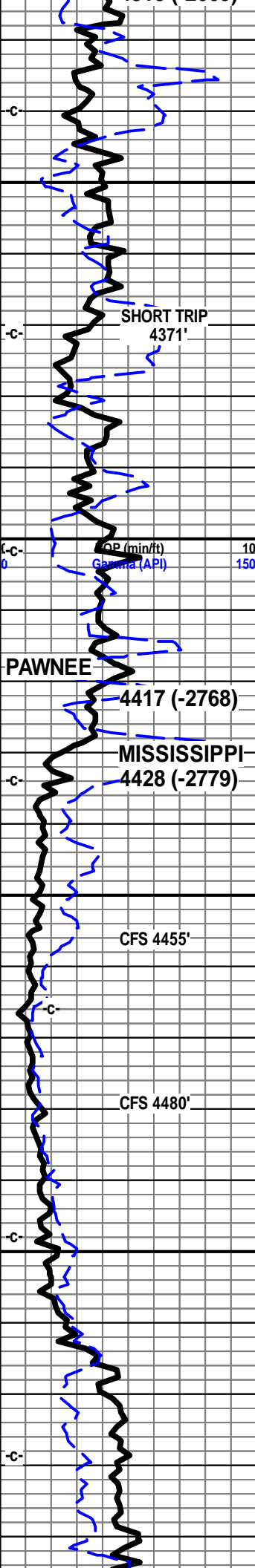
lst crm tan off wht, tr lt gry, f xln gran soft sub chlky foss frags, foss oo/pelletal, foss mold, inter xln por, much calc xln fill, NS

lst crm buff tan, tr off wht f xln gran soft sub chlky, foss frags, ool, pelletal, inter xln por, mstly vry chlky, pp por, calc xln fill

lst crm buff tan lt gry f xln blkly dns hrd sub chlky foss frags, micro foss, and shl drk gry blk, blk carb, wxy grsy text, abun gas bubs

lst crm buff tan tr lt gry f v f xln dns hrd blkly ang sub chlky, foss frags, inter xln por.





ing, calc, tan, buff, sh, mstly soft chlky, calc xln fill, flood blk carb shl in this spl

1st crm gry tan mott f xln blk ang dns hrd, sub chlky, mstly dns, foss frags micro foss calc xln fill

1st crm gry buff f xln dns hrd blk ang, sub chlky micro foss frags, foss ool tr pelletal, tr chrt lt gry shrp frsh opa

lsr crm tan, gry tan mott, f xln dns hrd blk sub chlky, micro foss frags, foss ool, micro pelletal, calc xln fill, chrt gry shrp frsh

1st drk gry brn f vf xln gran gritty vry arg silty, calc fill, shls gry drk brn silty calc inclu, gritty

1st drk gry brn f vf xln dns hrd blk ang vry arg silty gritty, shl brn brn silty gritty calc, calc inclu

aa, 1st gry tan lt gry brn mott f vf xln dns hrd blk ang tr arg, micro foss frags, shl gry drk gry blk silty gritty calc in prt

1st crm buff tan f vf xln blk ang dns sub chlky in prt, foss frags, micro foss frag, ool, pelletal, calc xln fill

shl gry blk, brn blk, 1st tan buff crm f vf xln dns hrd blk ang, tr sub chlky, micro foss frags, ool/pelletal calc xln fill

1st crm buff tan f vf xln dns hrd blk ang dns, arg sub chlky, shl gry green silty gritty,

chrt wht, off wht, bone wht, tr lt gry, shrp frsh sub opa, blk ang shards, w/ tr tan brn edge stain, sli odor, gas bubs, tr pp, sli frac por, mstly barren

chrt wht off wht, bone wht, tr lt smokey gry shrp frsh opa, blk ang shrp shards, tr tan brns edge stain aa, chrt wht off wht tan mott, w/sli spongy weath sli trip text edge, moldic, pp por, tan brn stain, gas bubs, sli odor

chrt wht off wht bone wht, tr lt gry smokey tint, sub opa, shrp blk ang sharp shards, 80% frsh, 20% with tan brn stained sli weath edge, pp por, chrt wht tan brn mott sli gran spongy text, weath sli trip text, tan brn stained, sli odor, SSFO, gas bubs, pp moldic por, vug por

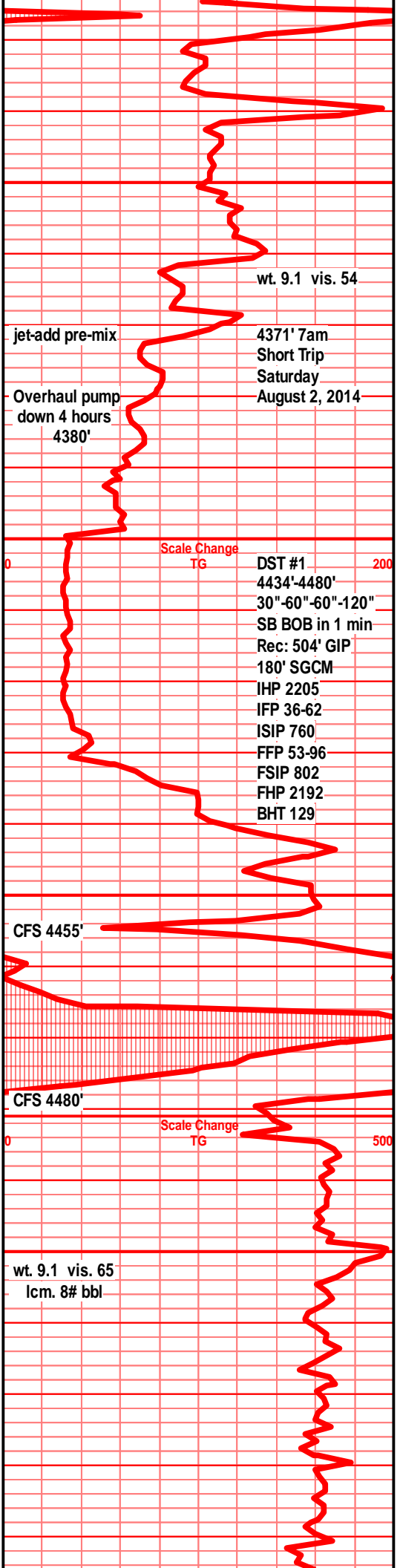
chrt wht off wht, tr lt gry smokey, tr tan, shrp, frsh sub opa, ang sharp shrds, w/tan brn sli weath edge stain, chrt wht tan lt brn mott, spongy weath gran sli trip text, pp moldic por, sli odor, ssfo, gas bubs

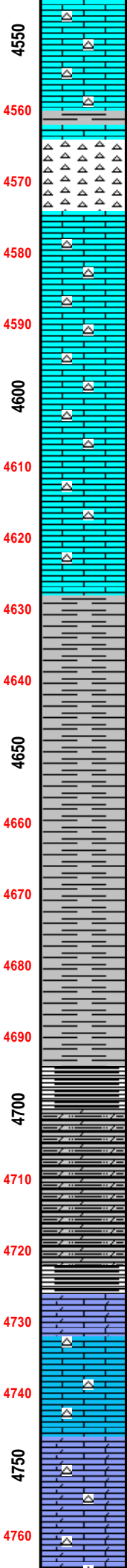
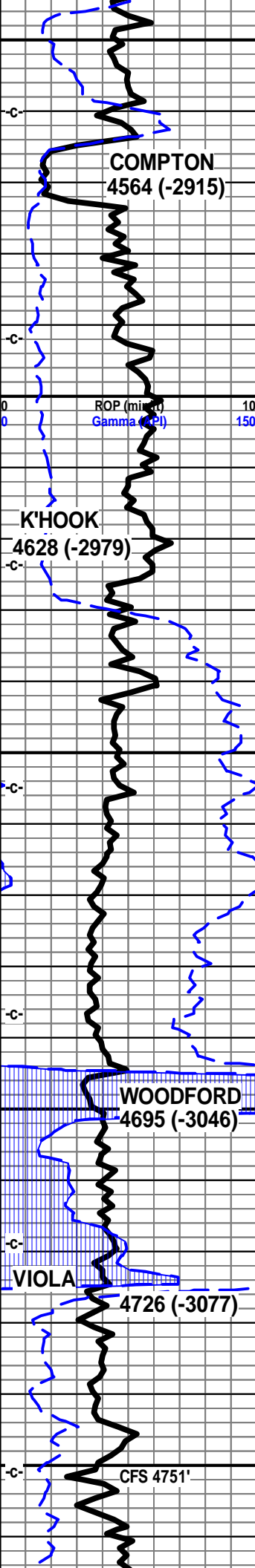
chrt aa bec wht off wht, frsh blk shrp ang shrds, tr w/sli weath tan brn edge stain, tr pp moldic por, mstly wht off wht shrp frsh ang shrds, sub opa tr w/drck blk stain, tr hvly blk stain

1st crm tan lt gry/green tint, f vf xln blk dns ang hrd, chrt, chrt wht shrp frsh opa, tr transl, tr sub opa

1st crm tan tr gry lt green f mic xln dns hrd blk ang, tr sli sub chlky, fnly gran in prt, chrt, chrt wht shrp frsh sub opa

1st crm off wht tan, tr lt gry/green tint, f vf xln sli gran text, blk ang dns hrd, sli chlky, chrt, chrt wht sub opa shrp frsh





chrt, chrt wht sub opa, shrp frsh

4550 Ist aa, lst drk brn reddish, f vf xln dns hrd blk ang gran arg silty gritty,

4560 Ist drk brn reddish, f vf xln blk ang dns gran gritty, arg silty, lst tan lt gry/green tint, f vf xln dns hrd blk chrt

4570 chrt wht off wht bone wht shrp frsh, sub opa, blk ang shrp shrd

4580 Ist off wht dull tan, tan f vf xln, tr micro xln dns hrd blk ang pcs, mstly dns, tr sub chlky, chrt dull tan shrp frsh sub opa

4590 Ist off wht crm f vf xln dns hrd, tr micro foss frags, chrt crm dull tan shrp frsh sub opa

4600 Ist off wht tan lt crm, f vf xln dns hrd blk micro foss frags, chrt tan dull tan shrp frsh, shl lt blue green silty, clays

4610 Ist off wht dull tan crm, f vf xln dn shrd blk, tr micro foss frags, sli tite sub chlky, chrt crm dull tan shrp frsh

4620 Ist crm tan dull tan f vf xln dns blk ang, micro foss frags, sli fnly chlky, chrt off wht dull tan shrp frsh opa

4630

4640 shl gry drk gry, gritty silty, bedded, fnly gran in prt, tr pyritic, tr gas bubs

4650 shl gry drk gry, tr gry blk, silty gritty, sli gran text, tr pyritic, tr gas bubs

4660 shl gry drk gry tr blk/reddish tint, silty gritty, gran/grain inclu, tr pyritic, tr gas bubs

4670 shl gry drk gry blk, tr blk/brn/reddish tint, silty gritty, pyritic in prt, gas bubs

4680 shl drk gry, gry blk, blk/reddish tint, silty gritty, bedded, pyritic, vry small rded snd grn inclu, gas bubs

4690 shl aa, no change, gry lt green, silty girty pyritic, bedded

4700 shl silty dolo shl in prt, blk carb text, blk ang pcs, brownish streak on break, silty gritty, pyritic, cupric in prt, abun gas bub break and "spitting" gas tr filmy cond

4710 shl, dolo shls, drk gry, med blk, silty fnly gritty gran, calc in prt, tr vry fn rded snd grain inclu

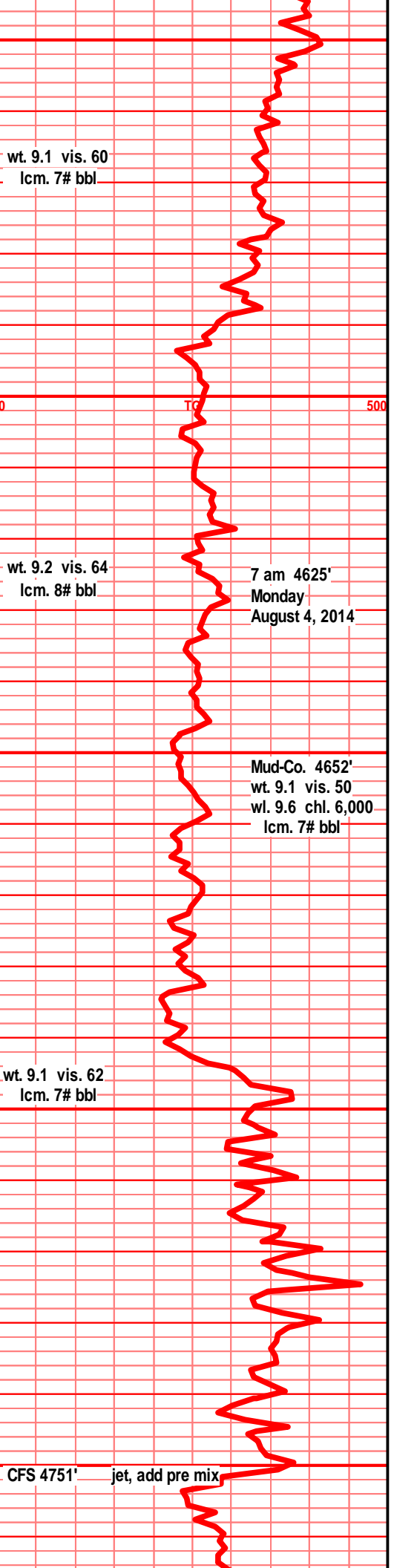
4720 shl, dolo shl, med gry, drk gry, lt blk, fnly silty/gran text, tr pyritic, tr calc tr gas bubs, tr sndy/gritty aa

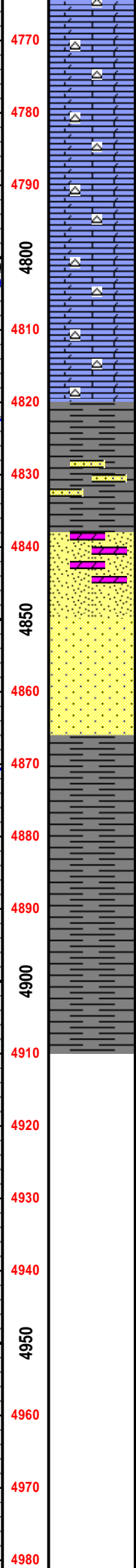
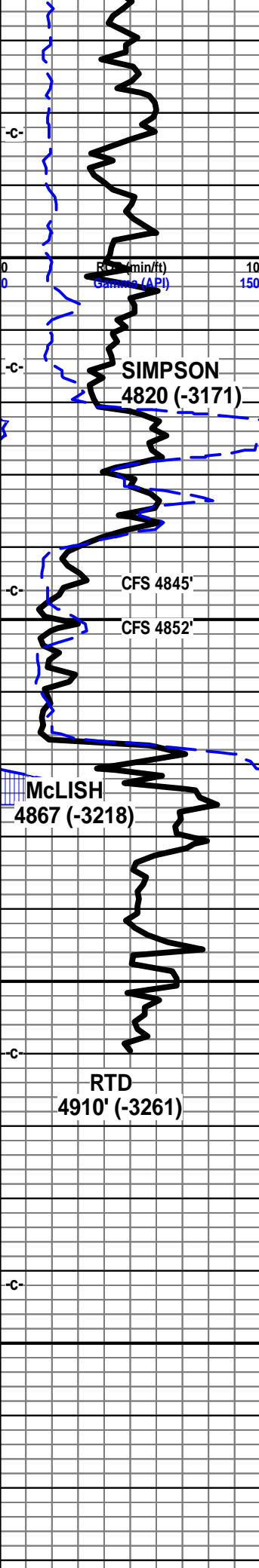
4730 Ist crm wht tan buff f sli med xln, dolo suc text in prt, blk ang gran pcs, foss frags, foss mold, inter xln por, blk stain, tr filmy SFO on break, tr gas bub, nodor

4740 Ist, dolo in prt, wht off wht crm tan, tr gry tan mott f sli med xln blk ang, foss frags, foss mold, inter xln por, drk blk stain, filmy SFO on break, tr gas nodor, poor slight show1

4750

4760 Ist/dolo dull tan brn f vf xln blk ang hrd dns, sli suc text, gran sndy gritty in part, chrt, chrt dull tan brn shrp frsh





dolo 1st tan dull tan brn f vf xln dns hrd blkly tr
suc chlky, calc, sli suc text, gran sndy text
chrty, chrt dull tan brn shrp frsh sub opa

dolo 1st tan brn bec drk brn f vf xln dns hrd
blkly, sli suc text, sli chlky text, tr sndy, chrty,
chrt dull tan brn shrp frsh

dolo 1st drk tan brn f mic xln hrd dns blkly ang
sli suc pcs, chrty, much chrt dull tan msly
brn shrp frsh sub opa

dolo 1st tan drk brn f micro xln gran blkly, tr sli
chlky, sli suc text, gran sndy text, chrty, chrt
dull tan brn shrp frsh sub opa

1st, dolo 1st drk tan msly brn f vf xln blkly ang
dns hard,, sli chlky, gran gritty, sli snd suc
text, chrty, much chrt-dull tan brn drk brn shrp
frsh sub opa

shl gry, drk gry green, fnly silty, w/ gry green f
grnd rded snd grn inclu, pyritic

sst clr, mstly gry green tint, f grnd, sub ang
grns, well srtd, w/cem, very well cem, silic
cem, non fria, pyritic, blkly ang hrd tite clstrs

sst clr tan clstrs f grnd, sub ang, sub rded
grns, w srtd, pr to fairly cem, sub fria, silic
cem, tr calc, inter gran por,
sst off wht lt tan and clr semi frosted clstrs, f
grnd, sub rded, tr sub ang, fair to well srtd,
pr to fair cem, sub fria to fria, silic cem, tr min
fill, tr dead gilson stain, NSFO, NODOR

shl drk gry green, fnly silty, tr with wxy grsy
text, min snd grn inclu, pyritic

shl dry gry green, teal green, fnly silty, wxy
grsy text, min snd grn inclu, tr glau, tr pyritic

shl drk gry green, tr teal green silty, fnly
gritty, tr grsy wxy text, snd grn inclu, tr pyritic,
tr glau

