



1235384

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: 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

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 065054

Federal Tax I.D. # 20-8651475

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

NOV 21 2014 SERVICE POINT:
MED LODGEKS

DATE <u>10-31-14</u>	SEC. <u>10</u>	TWP. <u>32</u>	RANGE <u>7A</u>	CALLED OUT <u>3:00 P.M</u>	ON LOCATION <u>6:30 P.M</u>	JOB START <u>9:45</u>	JOB FINISH <u>11:15</u>
LEASE <u>Cunningham</u>		WELL # <u>#7</u>	LOCATION <u>ML West to Woodward Rd</u>		COUNTY <u>Garrett</u>	STATE <u>KI</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1/2 South W' N into</u>				

CONTRACTOR Fossil #3
 TYPE OF JOB SURFACE
 HOLE SIZE 17 1/2 T.D. 234
 CASING SIZE 13 3/8 DEPTH 234
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 20'
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 38 1/2 Bbl

OWNER Woodsey OPER
 CEMENT AMOUNT ORDERED 300x CLASS A
2% GEL 3% CL
 COMMON 300x @ 17.90 5370.00
 POZMIX @ 2
 GEL 564 # @ .50 282.00
 CHLORIDE 846 # @ 1.10 930.60
 ASC @ _____

EQUIPMENT

PUMP TRUCK CEMENTER T. SEBA
 # 892-555 HELPER T.J. GIBSON
 BULK TRUCK # 364 DRIVER WAYNE R
 BULK TRUCK # _____ DRIVER _____

HANDLING @ _____
 MILEAGE @ _____
 20% 1316.52 TOTAL 6582.60

WELL FILL

Regulatory @ _____
 Orig? Comp @ _____
 Tests / Meter @ _____
 Correspondence @ _____
 Workovers @ _____
 Operations @ _____

REMARKS:

Run 6 3/4" 13 3/8 40' csg set @ 234'
Psi test Link 500'
Pump 5 Bbl H2O
Misc Pump 300x CLASS A 2% GEL 3% CL
0.15 2 1/4 gal
Disp 32 1/2 Bbl total
Close Valve on Csg 150'
Good Old New Job CRL CNT TO P.T

SERVICE

DEPTH OF JOB 234
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE 2 @ 440 880
 MILEAGE 2 @ 770 1540
 MANIFOLD @ _____
321.18 @ 2.48 796.54
44.41 @ 2.75 122.14

CHARGE TO: Woodsey OPER
 STREET _____
 CITY _____ STATE _____ ZIP _____

20%: 49103 TOTAL 2455.13

PLUG & FLOAT EQUIPMENT

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 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 9037.73
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME MIKE THARP
 SIGNATURE Mike Tharp

NET 7230.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.

10-32s-12w Barber Co., KS

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

Cunningham 7

Job Ticket: 59924

DST#: 1

ATTN: Bill Klaver

Test Start: 2014.11.07 @ 20:42:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 00:47:00

Time Test Ended: 05:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 68

Interval: 4481.00 ft (KB) To 4615.00 ft (KB) (TVD)

Reference Elevations: 1524.00 ft (KB)

Total Depth: 4615.00 ft (KB) (TVD)

1512.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8790

Inside

Press@RunDepth: 55.78 psig @ 4488.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.07

End Date:

2014.11.08

Last Calib.:

2014.11.08

Start Time:

20:42:05

End Time:

05:35:00

Time On Btm:

2014.11.07 @ 23:12:15

Time Off Btm:

2014.11.08 @ 03:21:45

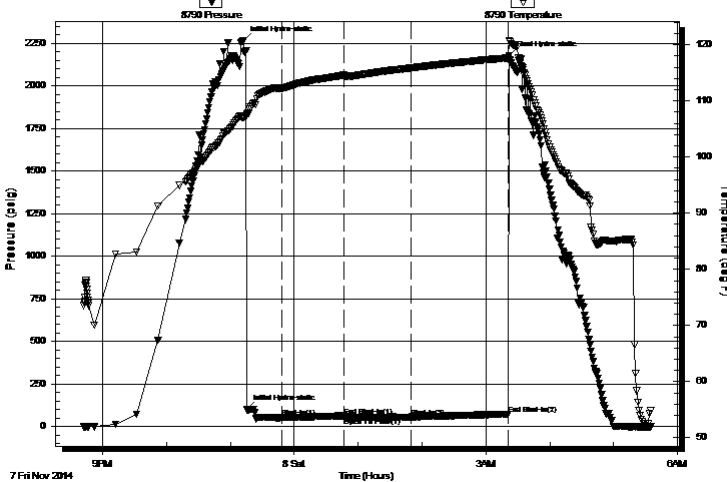
TEST COMMENT: IF: Strong blow . BOB @ 9min.

IS: No blow

FF: Weak blow . surf. - 2"

FS: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.05	107.05	Initial Hydro-static
4	98.11	107.44	Initial Hydro-static
36	51.93	112.27	Shut-In(1)
94	62.12	114.56	End Shut-In(1)
95	52.63	114.51	Open To Flow (1)
158	55.78	115.86	Shut-In(2)
249	72.36	117.62	End Shut-In(2)
250	2176.20	120.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Drig mud 100%m	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC.

10-32s-12w Barber Co., KS

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

Cunningham 7

Job Ticket: 59924

DST#: 1

ATTN: Bill Klaver

Test Start: 2014.11.07 @ 20:42:00

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:

6000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.05 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Drig mud 100%m	0.443

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:

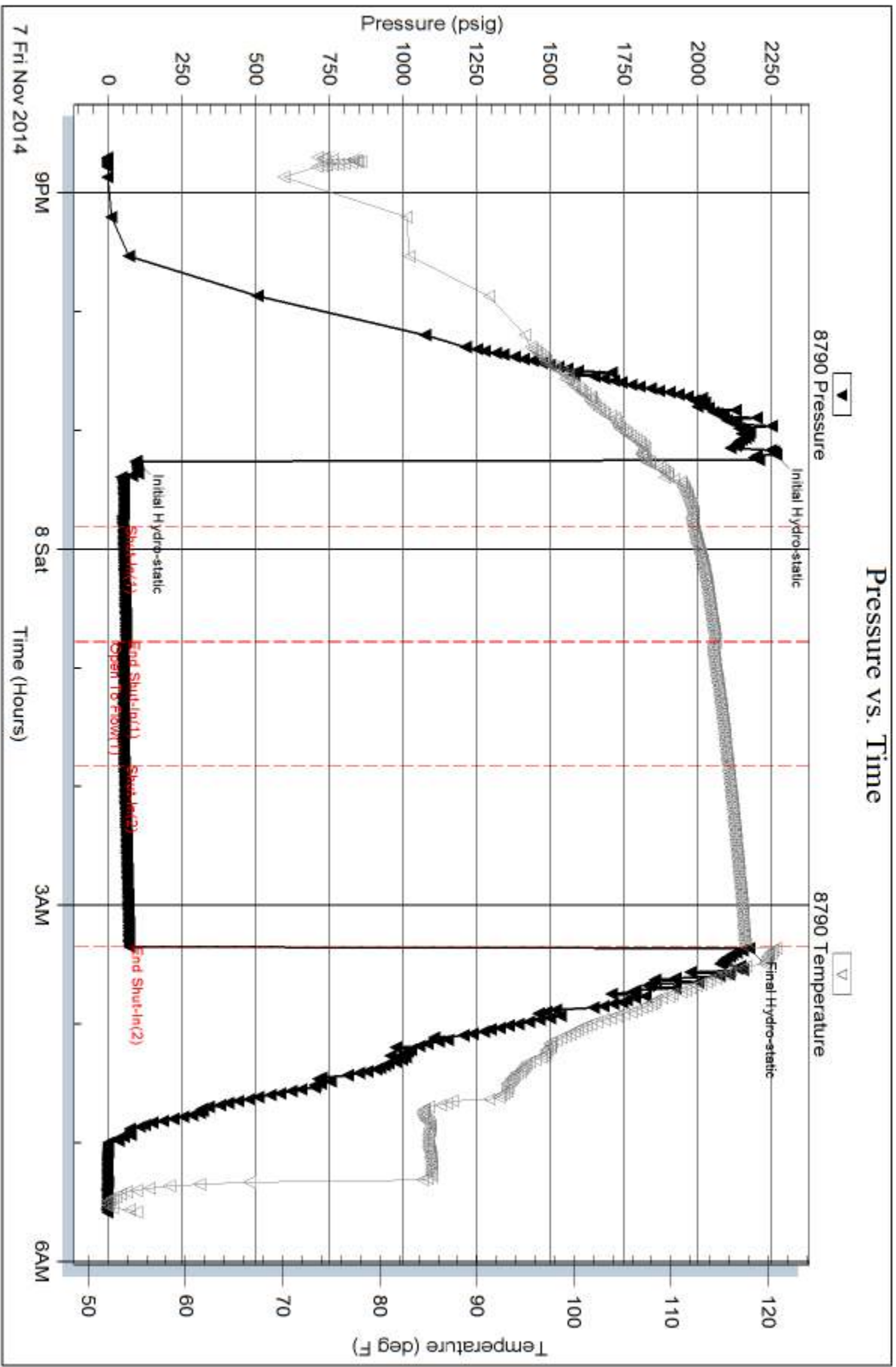
Serial #: 8790

Inside

Woodsey Oper. Co. LLC.

Cunningham 7

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59924

Printed: 2014.11.08 @ 12:09:15



Woolsey Operating Company, LLC

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

Well Name: CUNNINGHAM #7
Location: Section 10 - Township 32 South - Range 12 West
License Number: 15-007-24232-00-00 Region: Barber County, Kansas
Spud Date: October 31, 2014 Drilling Completed: November 9, 2014
Surface Coordinates: 405' FSL and 810' FEL
Apx. NE SW SE SE

Bottom Hole
Coordinates:
Ground Elevation (ft): 1512' K.B. Elevation (ft): 1524'
Logged Interval (ft): 3600' To: 4770' Total Depth (ft): 4770'
Formation: Toronto ----> Simpson Group
Type of Drilling Fluid: Chemical Mud, displaced at 3199'

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 1:40 pm on 10/31/2014. Ran 5 joints of 13 3/8" X 48#/ft casing to 234' KB, cemented with 300 sx Class A, 2% gel, 3% cc. Plug down 10:30 pm. Cement did circulate.

Production Casing: None OBM

Deviation Surveys: 3/4 at 234', 3/4 at 1012', 1 at 1414', 1/4 at 1896', 1/2 at 2501', 1 at 3008', 3/4 at 3515', 1/4 at 3990', 3/4 at 4498', 1 at 4615', 2 at 4770'.

Pipe Strap @ 4615'

Fossil Drilling Rig #3 Bit Record

1) 17 1/2" Smith RR, in at 0' out at 234', 3 hours.

2) 7 7/8" Varel HE-21 in at 234' out at 4615', 123 3/4 hours

3) 7 7/8" Varel HE-29 RR in at 4615', out at 4770'

Gas Detector: Woolsey Operating Co. Gas Shack #2

Mud System: Chemical Mud, Brad Bortz, Terry Ison Engineers

Company Man: Mike Tharp, Woolsey Operating Co.

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

Pipe Strap at 4616', Board: 4625.06', Strap: 4623.93'. Strap 1.13' short, no corrections were made to the board.


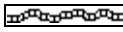
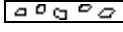
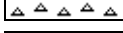




DSTs






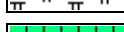


DST #1 Viola, 4481'-4615', 30"-60"-60"-90", FB BOB 9 minutes into IFP, Weak 2" blow during FFP. Recovered: 90' Mud. IHP 2266, IFP 98-51, ISIP 62, FFP 52-55, FSIP 72, FHP 72. BHT 121.





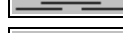
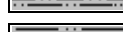
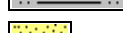
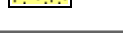
CREWS

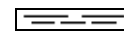







Jim Wenrick, Tool Pusher
 Daniel Orrantia, Daylights
 Ron Burns, Evening
 Kirk Shuman, Morning
 Chris Slatts, Relief

ROCK TYPES

-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst
-  Coal
-  Congl
-  Sdy dolo

-  Shy dolo
-  Dol
-  Gyp
-  Sdy lmst
-  Lmst
-  Mrlst
-  Salt
-  Shale

-  Slstst
-  Ss
-  Black sh
-  Gry sh
-  Shale
-  Shyslstst
-  Sltysh
-  Ss 2

-  Shale 3
-  Silty dol
-  Dol lmst
-  Dol 2
-  Granite wash
-  Lmst
-  Calc dol
-  Shale 3

ACCESSORIES

MINERAL

- Anhy
- Arg
- Bent
- Bit
- Brechfrag
- 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

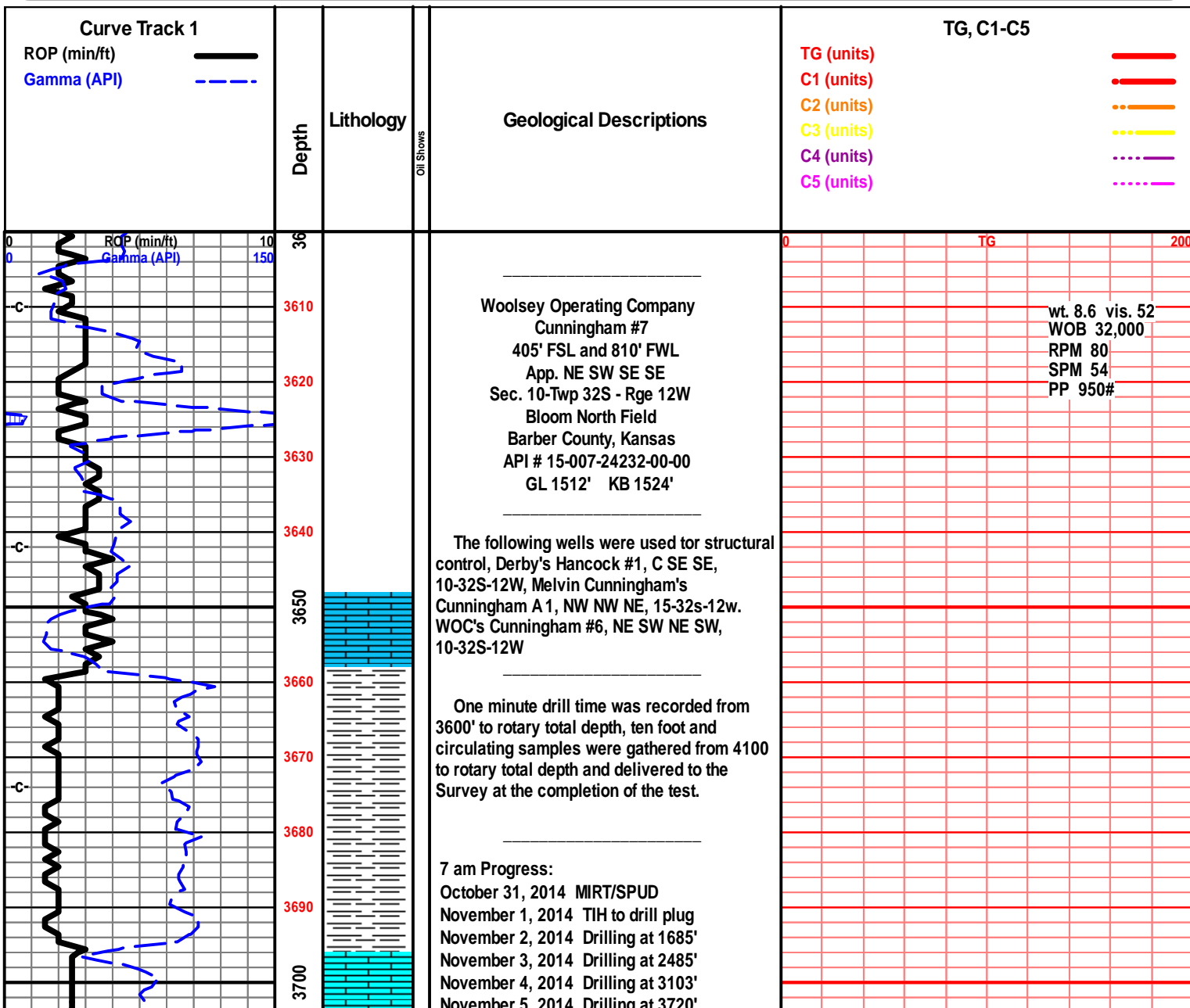
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

STRINGER

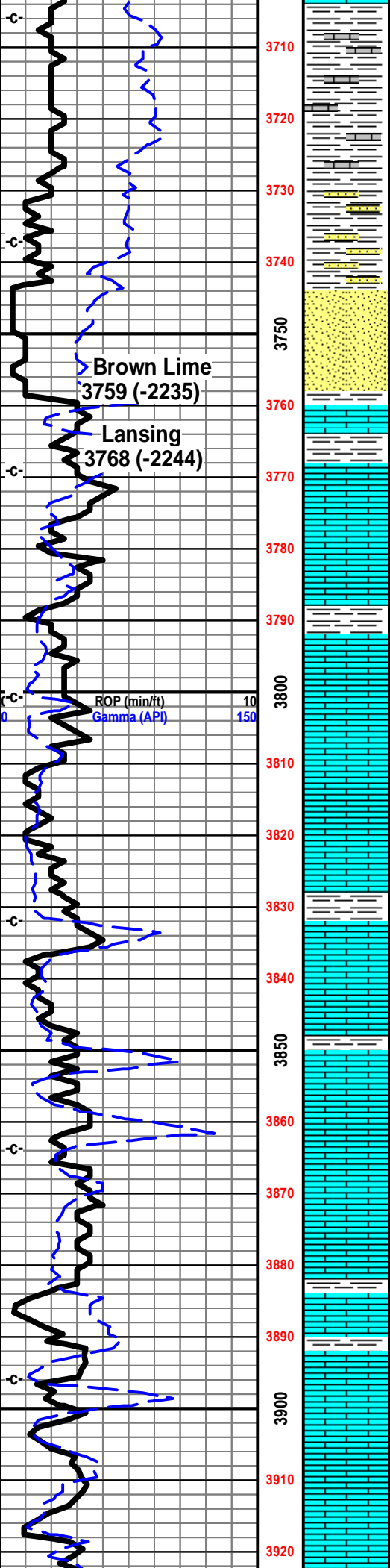
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol

TEXTURE

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



November 6, 2014 Drilling at 4196'
 November 7, 2014 Drilling at 4484'
 November 8, 2014 TIH/bit at 4615'
 November 9, 2014 Logging at 4770'



- E-Log Tops:**
- Herington 1813 (-289)
 - Onaga 2615 (-1091)
 - Wabaunsee 2675 (-1151)
 - Stotler 2820 (-1296)
 - Topeka 3084 (-1560)
 - LeCompton 3375 (-1851)
 - Kanwaka 3431 (-1907)
 - Elgin Sand 3438 (-1914)
 - Heebner 3580 (-2056)
 - Toronto 3603 (-2079)
 - Douglas Group 3604 (-2080)
 - Douglas Shl 3659 (-2135)
 - Brown Lime 3760 (-2236)
 - Lansing 3767 (-2243)
 - Iola 4002 (-2478)
 - Drum 4073 (-2549)
 - Dennis 4109 (-2585)
 - Stark 4140 (-2616)
 - Swope 4147 (-2623)
 - Hushpuckney 4176 (-2652)
 - Hertha 4186 (-2662)
 - B/Kansas City 4230 (-2706)
 - Pawnee 4314 (-2790)
 - Mississippi 4322 (-2798)
 - Miss Ero-Rework 4323 (-2799)
 - Northview Shale 4422 (-2898)
 - Compton 4433 (-2909)
 - Kinderhook 4484 (-2960)
 - Woodford 4560 (-3036)
 - Viola 4596 (-3072)
 - Simpson Group 4684 (-3160)
 - Wilcox 4720 (-3196)
 - LTD 4770 (-3246)

wt. 9.0 vis 47

wt. 9.0 vis. 46

Scale Change
TG

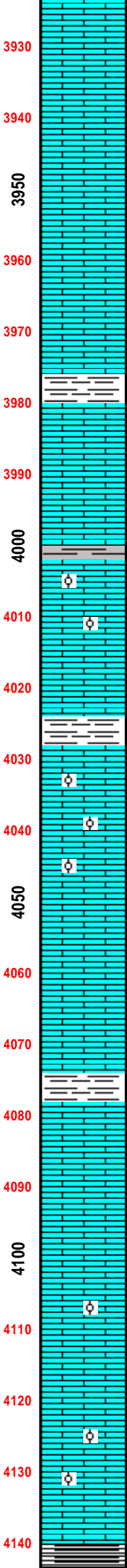
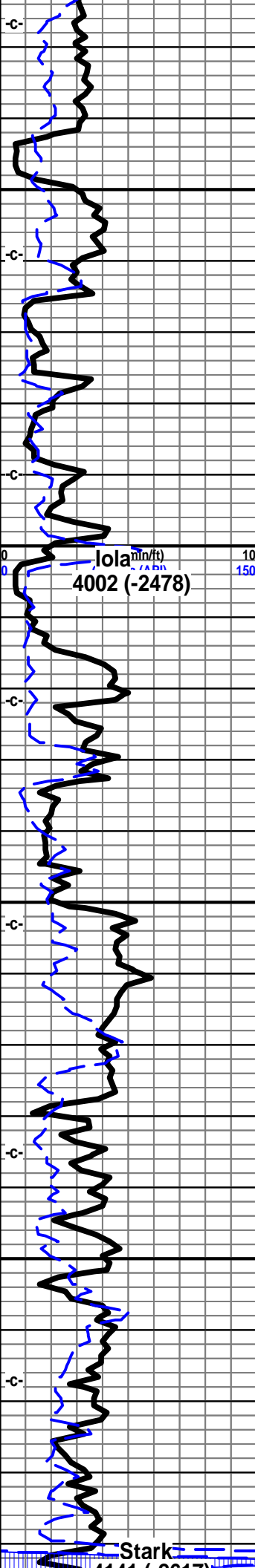
wt. 9.0 vis 45

Mud-Co. 3851'
 wt. 8.9 vis. 45
 w/ 9.2 chl. 2,000
 "Brad" Check

Geo on location
 2 pm @ 3860'
 Nov. 5, 2014

3885' Geolograph/ Tooke

wt. 9.0 vis. 46



Ist crm tan lt gry f xln gran soft in prt, sli chlky, foss frags, calc xln fill

Ist crm lt gry tan f xln blk ang hrd dns, sli chlky, tr foss frags, arg in prt,

Ist crm tan lt gry, off wht f sli med xln gran soft sub chlky foss frags, pp foss mold por calc xln fill

Ist crm gry tan f xln dns hrd blk ang sli foss mold por, calc xln fill, foss frags

shl gry dkr gry, Ist gry tan off wht f xln gran soft sub chlky foss frags, calc xln fill foss mold por

Ist crm tan off wht lt gry f xln gran sli soft, sub chlky foss frags, foss mold inter xln por, calc xln fill

Ist crm tan off wht f xln gran soft sub chlky foss frags, foss mold por, inter xln fill

Ist crm lt gry tan f vf xln dns hrd sli chlky, micro foss frags, calc xln fill

Ist crm tan off wht, lt gry f vf xln dns hrd blk ang sli chlky, foss frags, calc xln fill,

Ist lt gry tan f vf xln dns hrd blk ang sli sub chlky, foss frags, foss mold por, calc xln fill

Ist crm lgr tan f xln dns blk ang hrd, micro foss frags, inter xln por, calc xln fill, sub chlky in prt

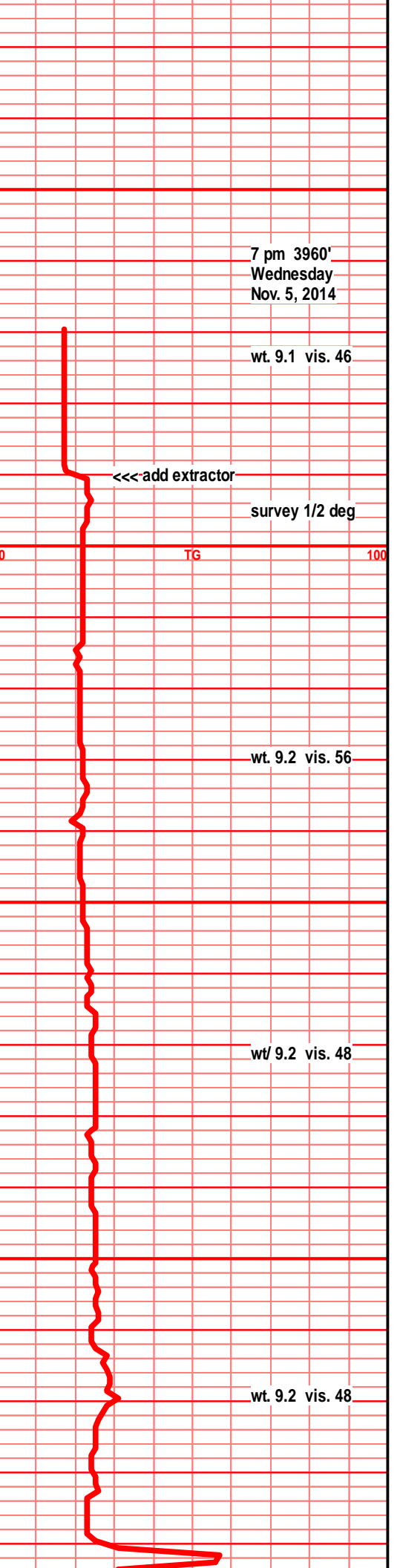
Ist crm buff tan tr lt gry f xln gran blk ang pcs, sub chlky in prt, micro foss frags,

Ist crm buff drk tan f xln blk ang sli sub chlky micro foss frags, gran soft in prt, calc xln fill

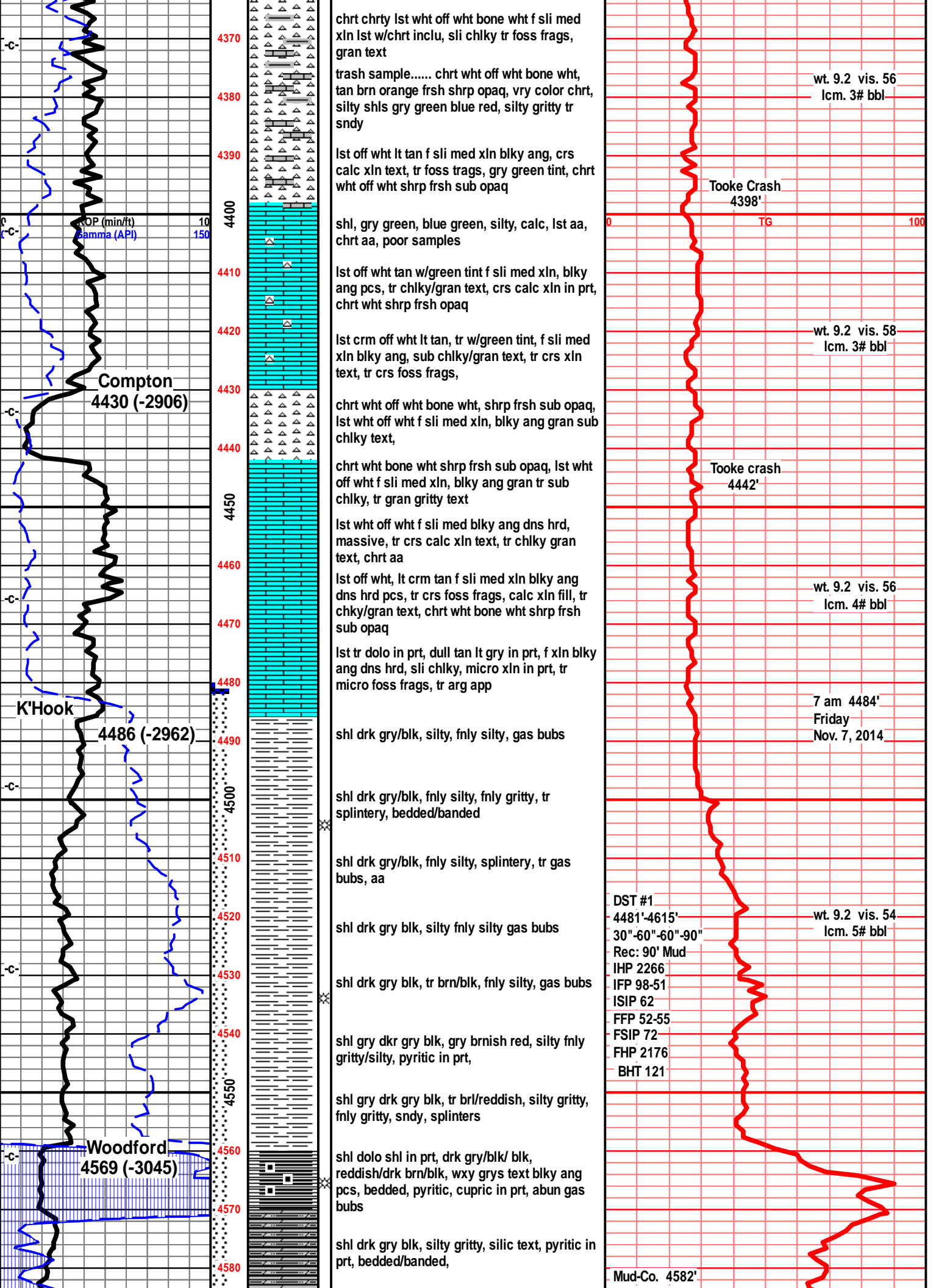
Ist buff tan mstly lt gry f vf xln dns hrd blk pcs, sli chlky in prt, micro foss frags,

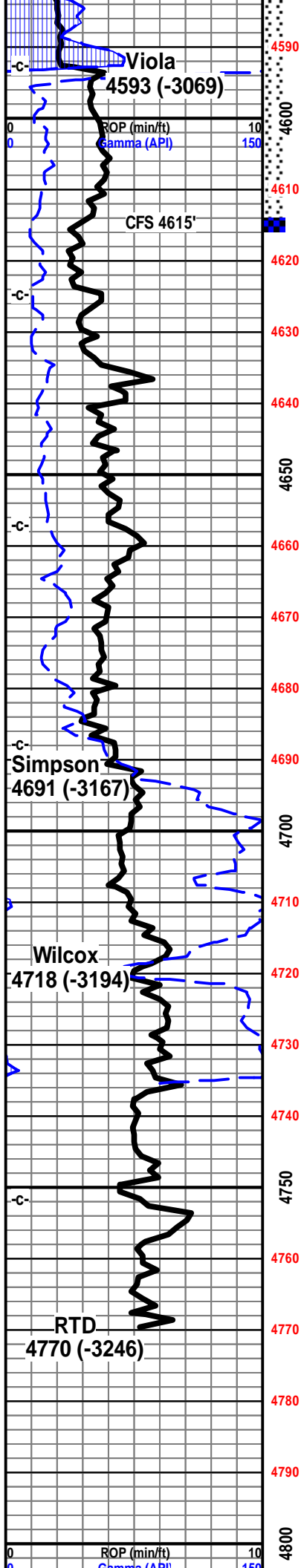
Ist buff tan, mstly lt gry f vf xln gran sub chlky, foss frags, micro foss frags, calc xln fill, some soft

Ist tan buff lt gry f vf xln dns hrd blk ang pcs, sli sub chlky, sli chlky in prt, micro foss frags,



Stark
41 5 4 224 7





shl gry drk blk, silty in prt, sndy gritty, fnly silty/silic text, tr bry reddish brn color, tr carb wxy grsy text, abun gas bubs

Ist crm tan f med xln blk ang pcs, crs calc xln in prt, crs foss frags, inter xln por, filmy RBSFO/brk, fair gas bubs on brk, nodor, dull UV (4-5 pcs only), Ist off wht tan lt gry mott, lt gry tint in prt, f med xln, blk ang pcs, crs foss frags, crs calc xln, tr pyritic, inter xln por, chrt wht shrp frsh sub opa

Ist off wht lt gry tint, f sli med xln blk ang dns tr sub chlky, calc xstls, tr crs foss frags, inter xln por, chrt wht shrp frsh, Ist dolo in prt, f xln tan dull tan lt gry f vf xln dns hrd sub chlky, tr gran gritty sndy text, chrt tan shrp frsh sub opa

Ist dolo in prt, off wht tan lt brn f sli med xln, gran, sndy, sli sucr text, soft sub chlky in prt, tr chrty, chrt wht dull tan shrp frsh sub opa

Ist dolo in prt, crm tan lt brn f xln dns gran sli chlky text, sli sndy sucr text, blk ang dns pcs, chrt in prt, chrt tan dull tan shrp frsh sub opa

Ist, dolo in prt, drk tan brn f vf xln dns blk ang hrd, tr sndy text, chrty, chrt drk tan dull brn shrp frsh sub opa

Ist dolo in prt, drk tan brn f vf xln dns hrd blk ang pcs, tr sli chlky/gran, tr sndy text, chrty chrt dull tan brn shrp frsh sub opa

Ist, dolo in prt, tan drk tan brn f vf xln, sli chlky/gran text, sndy text, chrty, chrt dull tan brn shrp frsh sub opa

shl drk gry/green, teal green wxy, grsy, sst gry green clstrs, f grnd, sub ang, prly srtd, vw cem, pyritic, clay fill NS

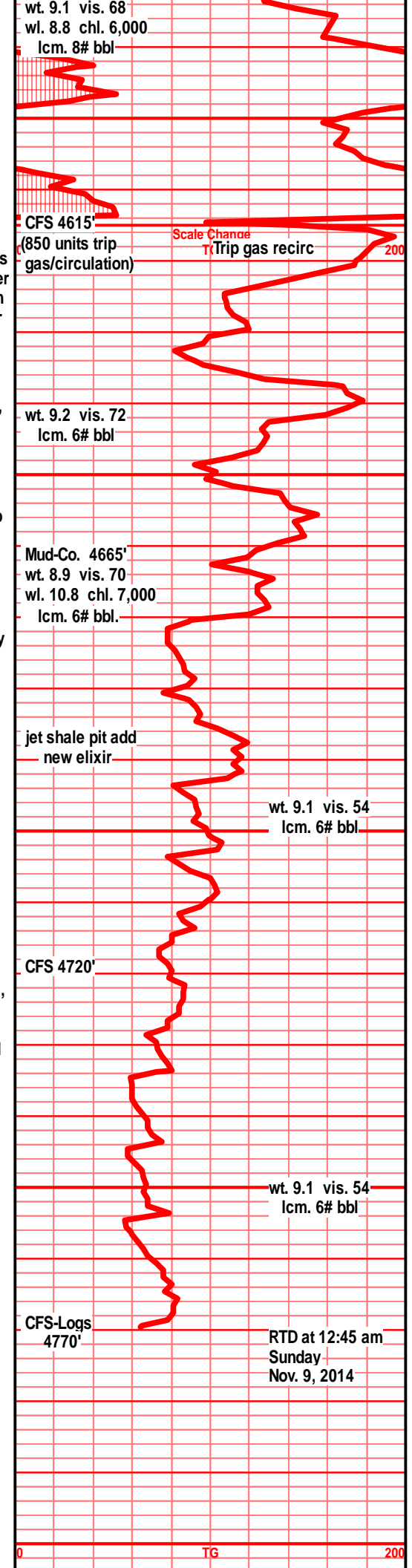
shl gry drk green, teal green, sndy pyritic, wxy grsy text, sst clstrs aa, sst gry med/drk gry f grnd, sub ang, prly srtd, sub frai to hrd blk ang clstrs, pyritic, hvy silic fill, NS NVP

sst lt gry, gry green clstrs, f grnd, sub ang, prly srtd, w/cem, sub fria, blk ang hrd clstrs, pyritic, silic fill, sst 6-8 clstrs, wht tan f grnd sub rded grns, w/srtd, prly cem, fria, inter gran por, silic cem abun loose clr/frsted rded snd grns in spl tray

shl drk gry green, teal green, wxy grsy "slick" text. pyritic, snd grn inclu

shl drk gry/green, teal green silty, wxy grsy text, pyritic, snd grn inclu

shl drk gry, drk gry green, teal green, fnly silty in prt, wxy grsy text, pyritic, snd grn inclu



wt. 9.1 vis. 68
wl. 8.8 chl. 6,000
lcm. 8# bbl

CFS 4615'
(850 units trip gas/circulation)

Scale Change
T, Trip gas recirc

wt. 9.2 vis. 72
lcm. 6# bbl

Mud-Co. 4665'
wt. 8.9 vis. 70
wl. 10.8 chl. 7,000
lcm. 6# bbl.

jet shale pit add
new elixir

wt. 9.1 vis. 54
lcm. 6# bbl

CFS 4720'

wt. 9.1 vis. 54
lcm. 6# bbl

CFS-Logs
4770'

RTD at 12:45 am
Sunday
Nov. 9, 2014

4810
4820
4830
4840
4850
4860
4870
4880
4890
00

Woolsey Operating Company
Cunningham #7
405' FSL and 810' FWL
Approx: NE SW SE SE
Sec. 10 - T32S - Rge 12W
Bloom North Field
Barber County, Kansas
API # 15-007-24232-00-00
GL 1512' KB 1524'

