



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1202613
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: _____

1202613

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	KIRKBRIDE A 1
Doc ID	1202613

Tops

Name	Top	Datum
CHASE	1882	-291
ONAGA	2705	-1114
HEEBNER	3483	-1892
DOUGLAS	3720	-2129
LANSING A	3851	-2260
HERTHA LS	4258	-2712
MISSISSIPPIAN	4386	-2795
VIOLA	4654	-3063
SIMPSON	4760	-3169

ALLIED OIL & GAS SERVICES, LLC 062424

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge, KS

DATE <i>1-7-2014</i>	SEC. <i>21</i>	TWP. <i>32 S</i>	RANGE <i>12 W</i>	CALLED OUT <i>1:00 AM</i>	ON LOCATION <i>2:00 AM</i>	JOB START AM <i>5:45 AM</i>	JOB FINISH <i>6:15 AM</i>
LEASE <i>Kirkbride</i>	WELL# <i>A-1</i>	LOCATION <i>160 + 64th Hill Rd.</i>			COUNTY <i>Barber</i>	STATE <i>Kansas</i>	
OLD OR NEW (Circle one)		<i>2 south / east south into</i>					

CONTRACTOR *Fossil #3*

TYPE OF JOB *surface*

HOLE SIZE *17 1/2* T.D.

CASING SIZE *13 5/8* DEPTH *222'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX *300* MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT *30 Bbls Water*

EQUIPMENT

PUMP TRUCK CEMENTER *Carl Balding*

471-265 HELPER *Ron Gilley*

BULK TRUCK

364 DRIVER *James Bowden*

BULK TRUCK

DRIVER

OWNER *Woolsey Operating*

CEMENT AMOUNT ORDERED

300 sk Class A + 37.00 + 27.60

COMMON	<i>300 sk</i>	@ <i>17.90</i>	<i>5370.00</i>
POZMIX		@	
GEL	<i>6 sk</i>	@ <i>23.40</i>	<i>140.40</i>
CHLORIDE	<i>11 sk</i>	@ <i>64.00</i>	<i>704.00</i>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>324.50</i>	@ <i>2.48</i>	<i>804.76</i>
MILEAGE	<i>14.80 / 5 / 2.60</i>		<i>192.46</i>
TOTAL			<i>7211.62</i>

REMARKS:

*Run 222' 13 5/8 casing
Break circulation with Rig
Pump 5 Bbls Freshwater.
Mix 300 sk Displace with
30 Bbls Freshwater, Leave
20' cement in pipe + shut in.
Cement did circulate*

SERVICE

DEPTH OF JOB	<i>222'</i>		
PUMP TRUCK CHARGE	<i>1512</i>	²³	
EXTRA FOOTAGE		@	
MILEAGE	<i>5</i>	@ <i>7.70</i>	<i>38.50</i>
MANIFOLD		@	
<i>LV 5</i>		@ <i>4.40</i>	<i>22.00</i>
		@	

TOTAL *1573.25*

CHARGE TO: *Woolsey Operating*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

WELL FILE

Regulatory Correspondence	_____
<input checked="" type="checkbox"/> Comp	<i>W@kovers</i>
Tests / Motors	<i>Operations</i>
	@ _____

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 *8784.87*

DISCOUNT _____ IF PAID IN 30 DAYS

(NET) *7027.89*

PRINTED NAME *MIKE THARP*

SIGNATURE *[Signature]*

ALLIED OIL & GAS SERVICES, LLC 062430

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge, KS

DATE <u>1-17-2014</u>	SEC. <u>21</u>	TWP. <u>32s</u>	RANGE <u>12W</u>	CALLED OUT <u>9:00am</u>	ON LOCATION <u>1:00pm</u>	JOB START <u>8:00pm</u>	JOB FINISH <u>9:00pm</u>
LEASE <u>Kirkbride</u>		WELL # <u>A-1</u>		LOCATION <u>1600 Gyphill Rd, 2 south</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)		Location <u>1 east, S1 into</u>					

CONTRACTOR <u>Fossil Drilling</u>	OWNER <u>Woolsey Operations</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4840'</u>
CASING SIZE <u>5 1/2 18.5#</u>	DEPTH <u>4827'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>45'</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>114 bbls 2% KCL water</u>	
EQUIPMENT	

PUMP TRUCK # <u>558-555</u>	CEMENTER <u>Darin F.</u>
BULK TRUCK # <u>364</u>	HELPER <u>Davis F., Darr F.</u>
BULK TRUCK #	DRIVER <u>CJ</u>
BULK TRUCK #	DRIVER

CEMENT	AMOUNT ORDERED		
	<u>90.5x60'40' 4% 60</u>		
	<u>100.5x C195.5 + 10% 55.2 + 10% 6yp</u>		
	<u>6 # Kolses 1 + 8% FL160 + 1/4 # 110seal</u>		
COMMON	<u>A 54 sx</u>	@ <u>17.90</u>	<u>966.60</u>
POZMIX	<u>36 sx</u>	@ <u>9.35</u>	<u>336.60</u>
GEL	<u>3 sx</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE		@	
ASC		@	
	<u>H 100 sx</u>	@ <u>21.20</u>	<u>2120.00</u>
	<u>Gyp seal 10</u>	@ <u>37.60</u>	<u>376.00</u>
	<u>Salt 11</u>	@ <u>26.35</u>	<u>289.85</u>
	<u>Kol Seal 600#</u>	@ <u>.98</u>	<u>588.00</u>
	<u>Fl-160 75#</u>	@ <u>18.90</u>	<u>1417.50</u>
	<u>Flo Seal 25</u>	@ <u>2.97</u>	<u>74.25</u>
	<u>Clapro 13 Gals</u>	@ <u>34.40</u>	<u>447.20</u>
		@	
HANDLING	<u>130.94</u>	@ <u>2.48</u>	<u>324.73</u>
MILEAGE	<u>9.81 / 7/2.60 (mi)</u>		<u>380.00</u>
			TOTAL <u>7390.93</u>

REMARKS:

Pipe on bottom & break circulation, mix 25sx Res hole, mix 15sx mouse hole, mix 50sx lead cement, mix 100sx TSA cement. Shut down, Release plug, 50sx displacement. Lift pressure 9+ 74 bbls, slow rate to 3bpm 9+104 bbls, bump plug 9, 114 bbls 900 1600 psi, floe & hold

SERVICE

DEPTH OF JOB	<u>4827'</u>		
PUMP TRUCK CHARGE	<u>2765</u>		
EXTRA FOOTAGE		@	
MILEAGE	<u>7</u>	@ <u>7.70</u>	<u>53.90</u>
MANIFOLD <u>Heard center</u>		@	<u>275.00</u>
<u>LU 7</u>		@ <u>4.40</u>	<u>30.80</u>
		@	

TOTAL 3125.45

CHARGE TO: Woolsey Operations
STREET _____
CITY WELL FILE STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>			
<u>1-BPV Floe + Shoe</u>	@		<u>408.33</u>
<u>1- Latch Down Plus Assy</u>	@		<u>324.09</u>
<u>8-Turbolizers</u>	@	<u>93.60</u>	<u>748.80</u>
<u>20- Reg. Protection SCRSICM</u>	@	<u>88.92</u>	<u>1778.40</u>
	@		

TOTAL 3259.62

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 13,776.60
DISCOUNT _____ IF PAID IN 30 DAYS
Net 11,672.80

PRINTED NAME x MIKE THARP
SIGNATURE x Mike Tharp



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co. LLC

21-32s-12w Barber Ks

125 N. Market Suite 1000
Wichita Ks 67202

Kirkbride A-1

Job Ticket: 51842

DST#: 1

ATTN: Joel Gearhart

Test Start: 2014.01.13 @ 05:57:05

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:29:05

Time Test Ended: 15:11:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 53

Interval: 4394.00 ft (KB) To 4428.00 ft (KB) (TVD)

Reference Elevations: 1591.00 ft (KB)

Total Depth: 4428.00 ft (KB) (TVD)

1579.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6773 Outside

Press @ Run Depth: 63.76 psig @ 4395.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.13

End Date: 2014.01.13

Last Calib.: 2014.01.13

Start Time: 05:57:10

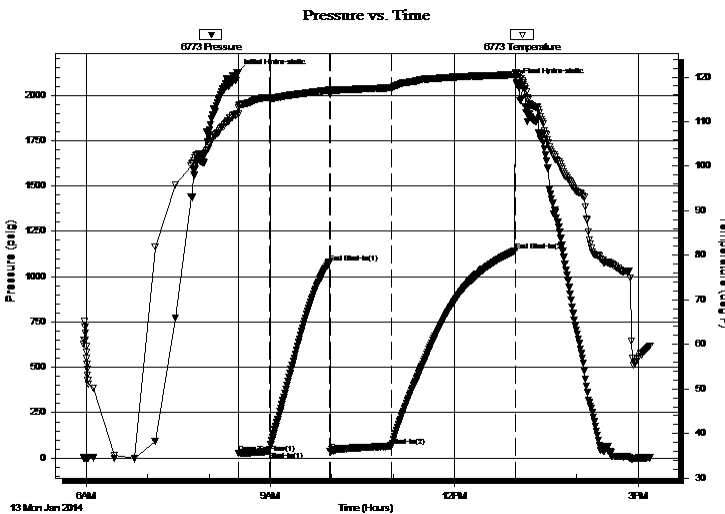
End Time: 15:11:20

Time On Btm: 2014.01.13 @ 08:27:35

Time Off Btm: 2014.01.13 @ 13:01:05

TEST COMMENT: IF: Strong blow . B.O.B in 6 1/2 mins.
IS: Weak blow . 1/4 to 1/2".
FF: Strong blow . B.O.B. in 5 sec.
FS: Weak blow . 1/4 to 3/4".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.34	111.67	Initial Hydro-static
2	27.88	113.15	Open To Flow (1)
31	36.37	115.44	Shut-In(1)
90	1078.42	117.08	End Shut-In(1)
91	35.41	116.09	Open To Flow (2)
151	63.76	117.64	Shut-In(2)
272	1142.92	120.54	End Shut-In(2)
274	2069.24	120.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GM&WCO 36%g 14%m 17%w 33%o	0.30
70.00	GOCM 23%g 35%o 42%m	0.34
0.00	1790 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co. LLC

21-32s-12w Barber Ks

125 N. Market Suite 1000
Wichita Ks 67202

Kirkbride A-1

Job Ticket: 51842

DST#: 1

ATTN: Joel Gearhart

Test Start: 2014.01.13 @ 05:57:05

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:

4000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GM&WCO 36%g 14%m 17%w 33%o	0.295
70.00	GOCM 23%g 35%o 42%m	0.344
0.00	1790 ft.of GIP	0.000

Total Length: 130.00 ft

Total Volume: 0.639 bbl

Num Fluid Samples: 0

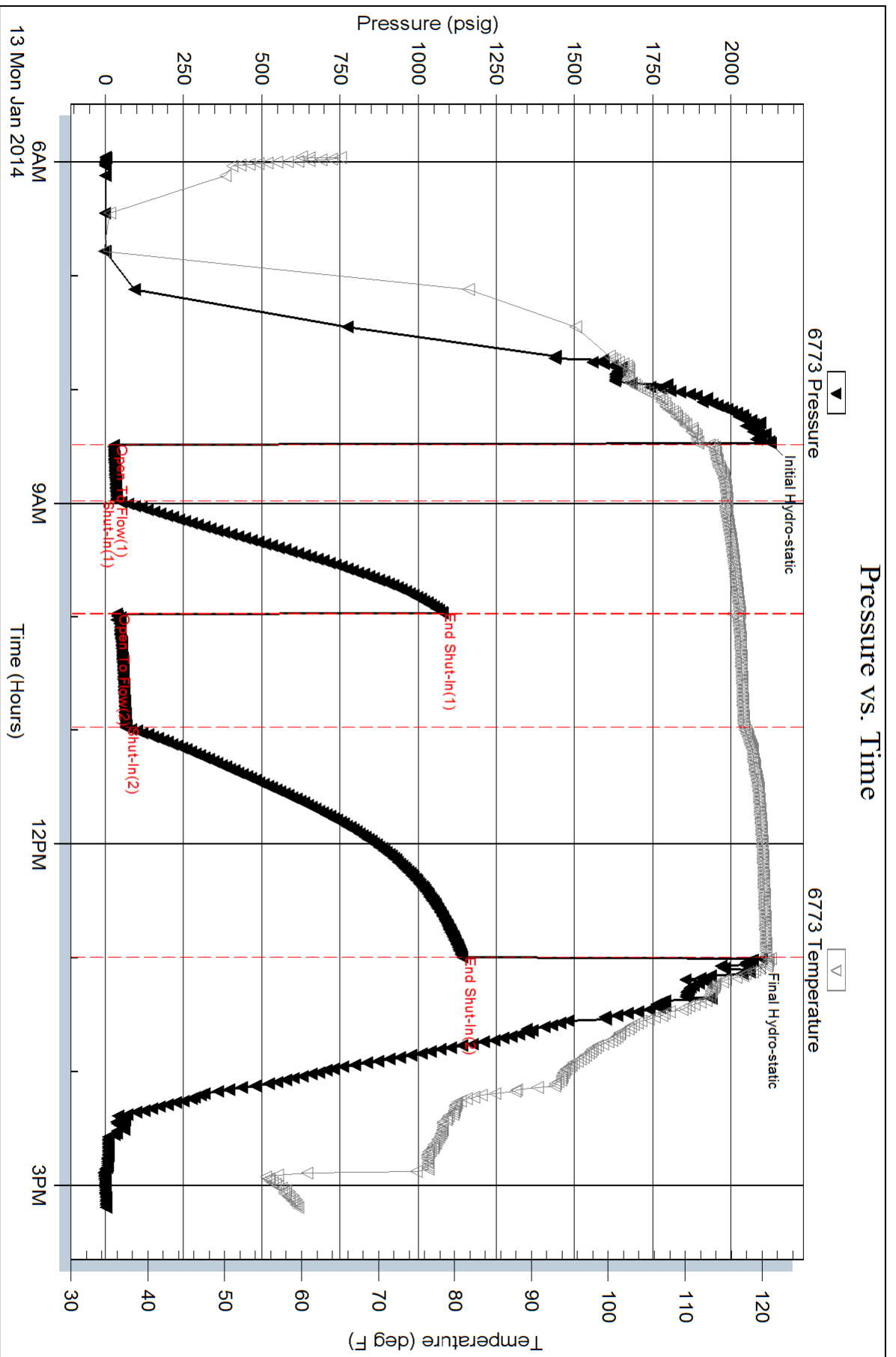
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co. LLC

21-32s-12w Barber Ks

125 N. Market Suite 1000
Wichita Ks 67202

Kirkbride A-1

Job Ticket: 51843

DST#: 2

ATTN: Joel Gearhart

Test Start: 2014.01.14 @ 00:20:52

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:42:07

Time Test Ended: 10:09:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 53

Interval: 4394.00 ft (KB) To 4454.00 ft (KB) (TVD)

Reference Elevations: 1591.00 ft (KB)

Total Depth: 4454.00 ft (KB) (TVD)

1579.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6719 Outside

Press @ Run Depth: 63.74 psig @ 4395.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.14

End Date:

2014.01.14

Last Calib.:

2014.01.14

Start Time:

00:20:57

End Time:

10:09:07

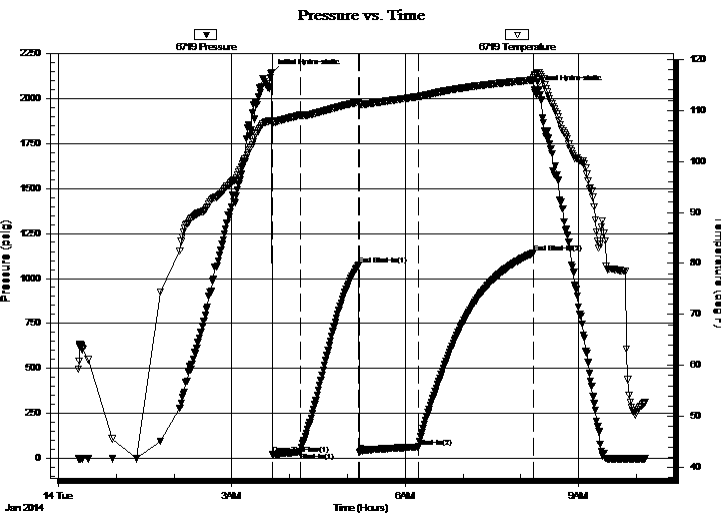
Time On Btm:

2014.01.14 @ 03:40:52

Time Off Btm:

2014.01.14 @ 08:14:07

TEST COMMENT: IF: Strong blow . B.O.B. in 12 mins.
IS: Weak blow . 1/4" - 1/2".
FF: Strong blow . B.O.B. in 30 sec.
FS: Weak blow (surface) dead in 15 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.34	108.00	Initial Hydro-static
2	23.50	107.60	Open To Flow (1)
30	36.66	109.04	Shut-In(1)
91	1074.95	111.62	End Shut-In(1)
92	33.91	111.31	Open To Flow (2)
153	63.74	112.69	Shut-In(2)
273	1142.65	115.97	End Shut-In(2)
274	2047.75	116.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GM&WCO 34%g 18%m 18%w 30%o	0.30
65.00	GOCM 11%g 40%o 49%m	0.32
0.00	1470 ft.GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co. LLC

21-32s-12w Barber Ks

125 N. Market Suite 1000
Wichita Ks 67202

Kirkbride A-1

Job Ticket: 51843

DST#: 2

ATTN: Joel Gearhart

Test Start: 2014.01.14 @ 00:20:52

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4454.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GM&WCO 34%g 18%m 18%w 30%o	0.295
65.00	GOCM 11%g 40%o 49%m	0.320
0.00	1470 ft.GIP	0.000

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 0

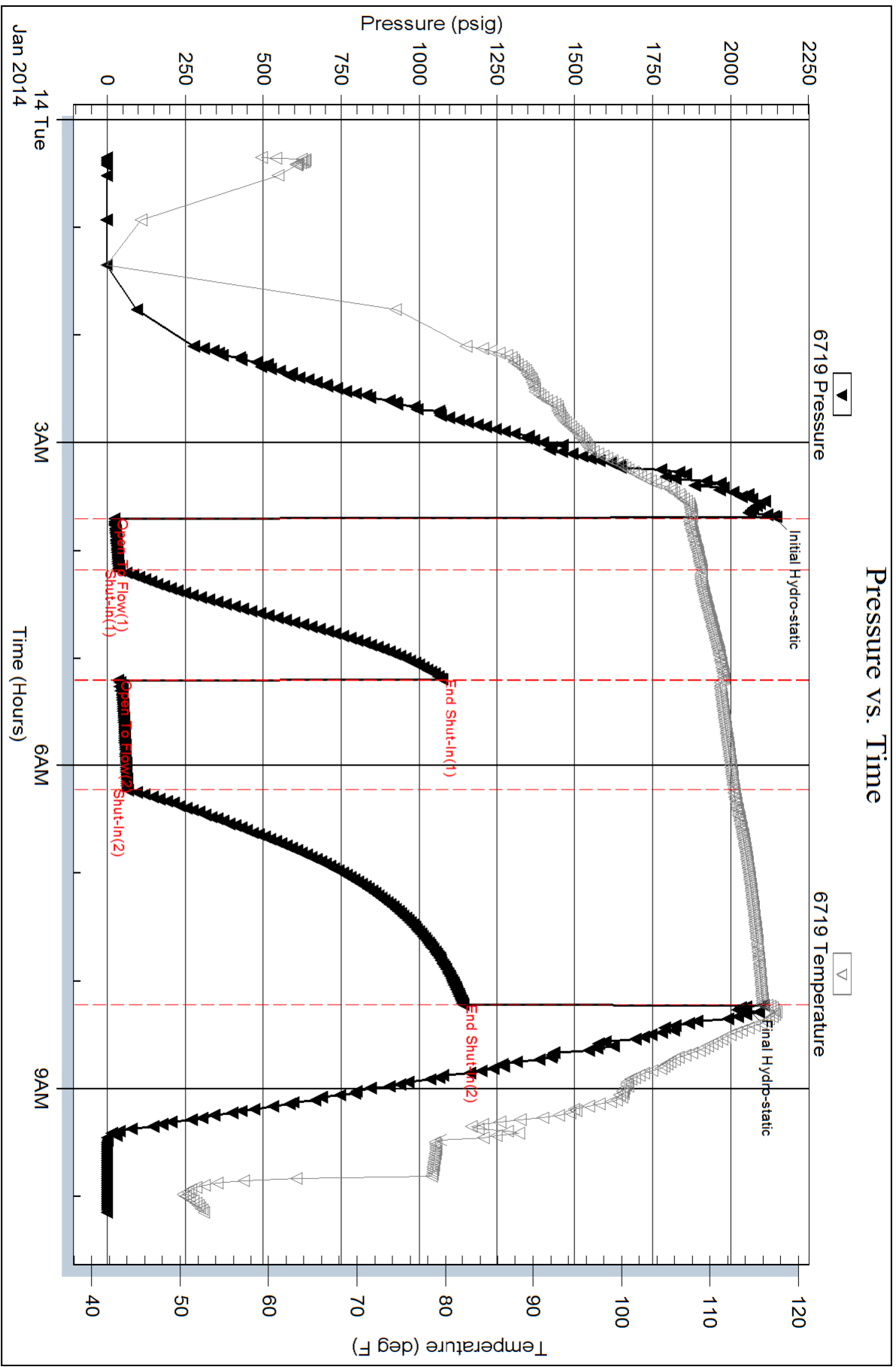
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co. LLC

21-32s-12w Barber Ks

125 N. Market Suite 1000
Wichita Ks 67202

Kirkbride A-1

Job Ticket: 51844

DST#: 3

ATTN: Bill Klaver

Test Start: 2014.01.15 @ 13:36:45

GENERAL INFORMATION:

Formation: **Misener/Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:00:45

Time Test Ended: 23:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 53

Interval: 4550.00 ft (KB) To 4685.00 ft (KB) (TVD)

Reference Elevations: 1591.00 ft (KB)

Total Depth: 4685.00 ft (KB) (TVD)

1579.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6719 Outside

Press @ Run Depth: 56.61 psig @ 4551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.15 End Date: 2014.01.15

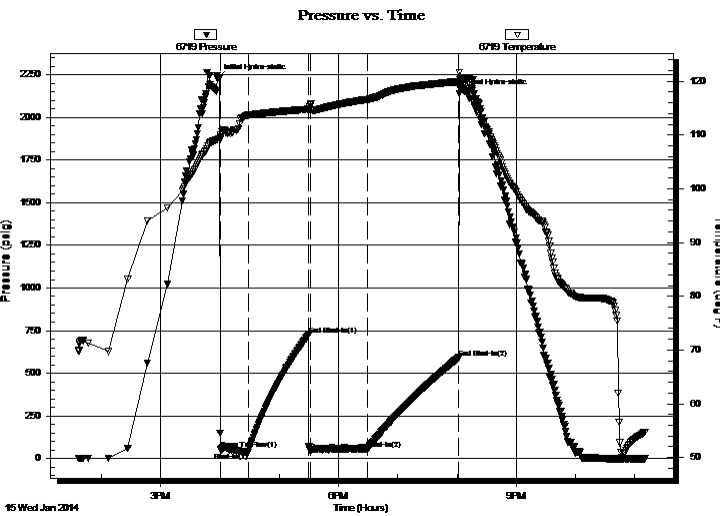
Last Calib.: 2014.01.15

Start Time: 13:36:50 End Time: 23:10:30

Time On Btm: 2014.01.15 @ 15:57:45

Time Off Btm: 2014.01.15 @ 20:02:30

TEST COMMENT: IF: Strong blow . B.O.B. in 40 secs.
 IS: Weak blow . 1/4" or less.
 FF: Strong blow . B.O.B. in 5 - 10 secs. GTS in 22 mins. TSTM.
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.43	109.21	Initial Hydro-static
3	53.02	109.74	Open To Flow (1)
32	37.67	113.73	Shut-In(1)
92	725.33	114.83	End Shut-In(1)
94	43.26	115.60	Open To Flow (2)
152	56.61	116.64	Shut-In(2)
244	591.16	119.81	End Shut-In(2)
245	2139.40	121.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Drilling mud /w few o specs	0.49

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co. LLC

21-32s-12w Barber Ks

125 N. Market Suite 1000
Wichita Ks 67202

Kirkbride A-1

Job Ticket: 51844

DST#: 3

ATTN: Bill Klaver

Test Start: 2014.01.15 @ 13:36:45

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
100.00	Drilling mud /w few o specs	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbf

Num Fluid Samples: 0

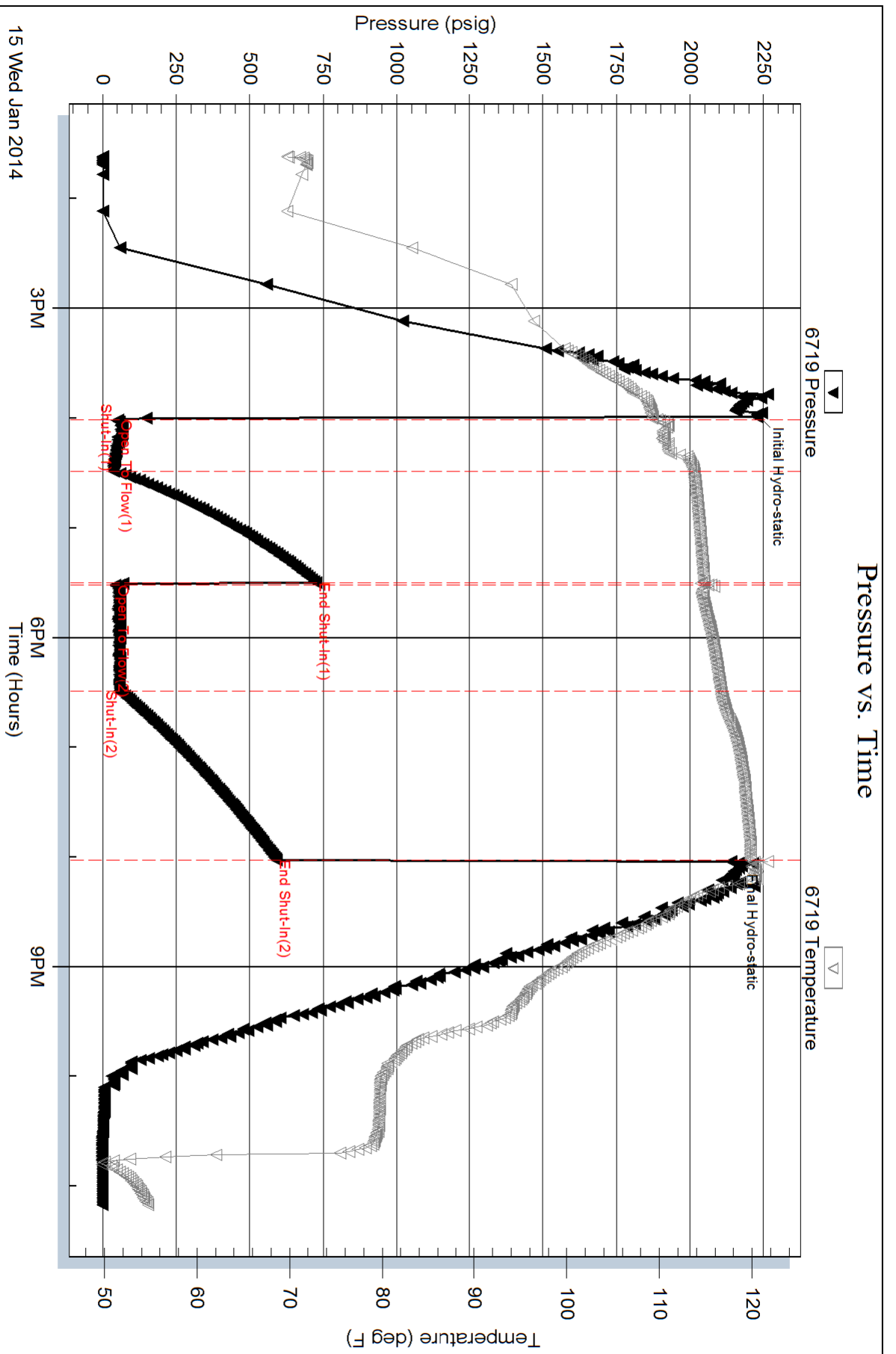
Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:





Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: KIRKBRIDE A-1
Location: Section 21 - Township 32 South - Range 12 West
License Number: 15-007-24121-00-00 **Region:** Barber County, Kansas
Spud Date: January 6, 2014 **Drilling Completed:** January 16, 2014
Surface Coordinates: 330' FNL & 582' FWL
N 1/2 NW NW
Bottom Hole Coordinates:
Ground Elevation (ft): 1579' **K.B. Elevation (ft):** 1591'
Logged Interval (ft): 3000' **To:** 4840' **Total Depth (ft):** 4840'
Formation: Topeka ----> Simpson Group
Type of Drilling Fluid: Chemical Mud, Displaced at 3300'
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Joel Gearhart
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Spud at 6 pm on January 6, 2014, set 5 joints of 13 3/8" X 48#/ft new casing at 222' KB (tally 209.14') with 300 sx 60/40 poz mix, 2% gel, 3% cc. (Cement by Allied) Plug down at 6 am January 7, 2014, cement did circulate.

Production Casing:

Deviation Surveys: 2 at 224', 3/4 at 730', 1/2 at 1238', 1/4 at 1748', 1/2 at 2250', 1/2 at 2758', 1/2 at 3200', 1 at 3738', 1 at 4248', 1 1/2 at 4428'

Pipe Strap @ 4428', Strap; 4439.15', Board; 4437.82', Strap 1.33' long. No corrections were made to the board.

Fossil Drilling Rig 3 Bit Record:

- 1) 17 1/2" Reed RT RR in at 0', out at 224'. 4.5 hours
- 2) 7 7/8" Varel HE-21 in at 222', out at 4428', 103 1/4 hours
- 3) 7 7/8" Varel he-29 RR in at 4428' out at 4685'
- 4) 7 7/8" HTC GX 20 C RR in at 4685' out at 4840'

Gas Detector: Woolsey Operating Company, Gas Shack #2

Mud System: Mud-Co. Brad Bortz, Engineer

DSTs: Trilobite Testing, Gary Pevoteaux, Tester

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

DSTs

DST #1

Mississippi 4394'-4428', 30-60-60-120

(1) SB BOB 6.5">WB 1/4-1/2", (2) SB BOB 5 sec.>WB 1/4-3/4", 1790' GIP, 70 GOCM (23%G 35%O 42%M), 60 GM&WCO (36%G 33%O 17%W 14%M), IHP 2122, FHP 2069, ISIP 1078, FSIP 1143, IFP 28-36, FFP 35-64, BHT 121

DST #2

Mississippi 4394'-4454', 30-60-60-120

(1) SB BOB 12"> WB 1/4"-12", (2) SB BOB 30 sec>WB SURFACE DIED IN 15", 1470' GIP, 65' GOCM (11%G 18%W 18%M), 60' GM&WCO (34%G 30%O 18%W 18%M), IHP 2137, FHP 2048, IFP 24-37, FFP 34-64, ISIP 1075, FSIP 1143, BHT 116

DST #3 Misener/Viola 4550'-4685', SB BOB in 20 seconds, GTS 22 minutes into 2nd flow period, TSTM.

Recovered: 100' Drilling Mud w/ a few oil specks. IHP 2227, IFP 53-37, ISIP 725, FFP 43-56, FSIP 591, FHP 2139. BHT 120 degrees.

SECTION 21 - TWP 26S - R06E 12W
 MEDICINE LODGE NORTH FIELD
 BARBER COUNTY, KANSAS
 API# 15-007-24121-00-00

Offset comparison wells for structural control included Dixon Energy's Lonker #1, SW SW SW, 16-32S-12W, American Energies Snyder #2, E 1/2 NW NE NE, 21-32S-12W.

One minute drill time was recorded from 3000' to rotary total depth. Ten foot and circulating samples were gathered from 3400' to rotary total depth. All samples were delivered to the Survey at the completion of the test.

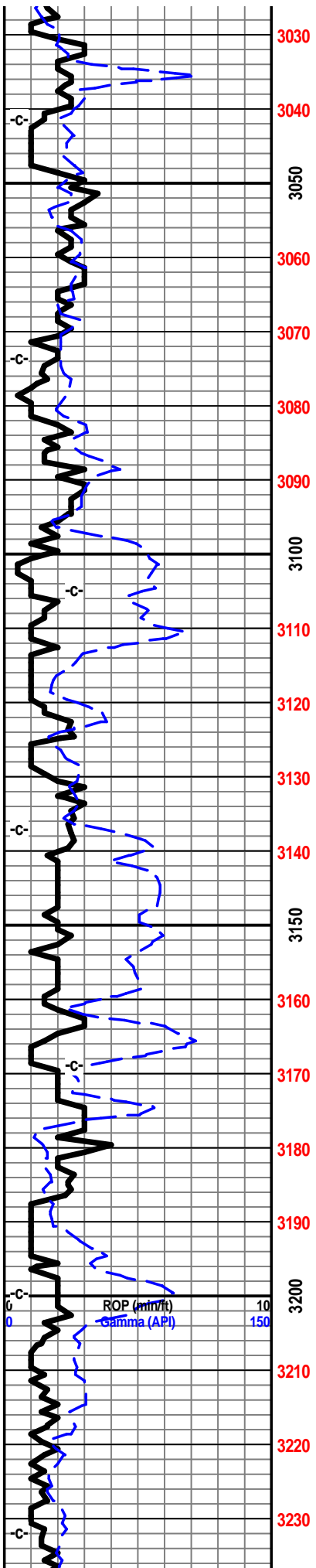
7 am Progress:

- January 6, 2014 MIRT/SPUD cold -5 deg
- January 7, 2014 WOC, plug down 6 am
- January 8, 2014 Drilling at 1430'
- January 9, 2014 Drilling at 2357'
- January 10, 2014 Drilling at 3158'
- January 11, 2014 Drilling at 3764', Joel G. relieves Bill @ 8:00 am
- January 12, 2014 Drilling at 3994'
- January 13, 2014 DST, at 4428'
- January 14, 2014 DST, at 4454'
- January 15, 2014 Drilling at 4633'
- January 16, 2014 Drilling at 4732'

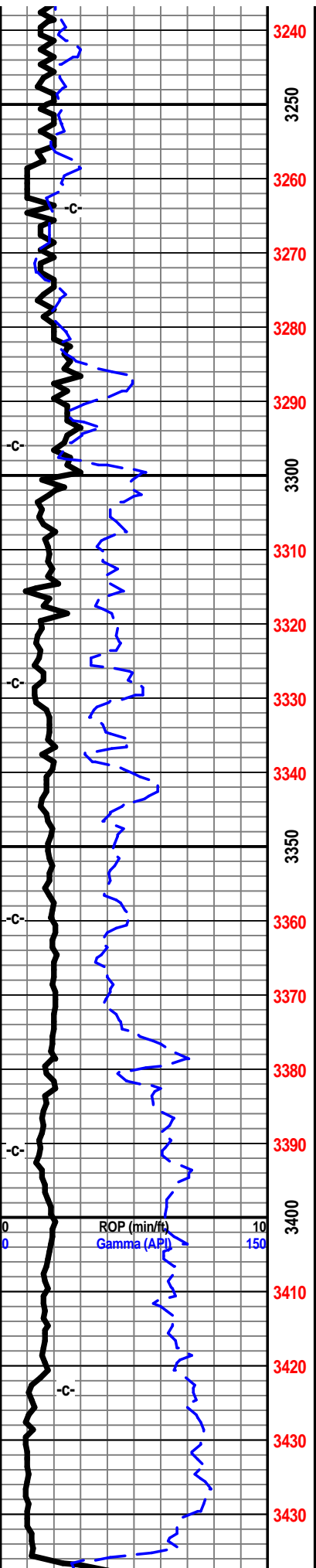
January 17, 2014

E-log Tops:

- Herington
- Onaga
- Wabaunsee
- LeCompton
- Kanwaka
- Elgin Sand
- Heebner
- Synderville
- Toronto
- Douglas Grp
- Douglas Shale
- Brown Lime
- Lansing
- Kansas City 'Iola'
- Kansas City 'Drum'
- Kansas City 'Dennis'
- Stark Shale
- Kansas City 'Swope'
- Hushnucknev



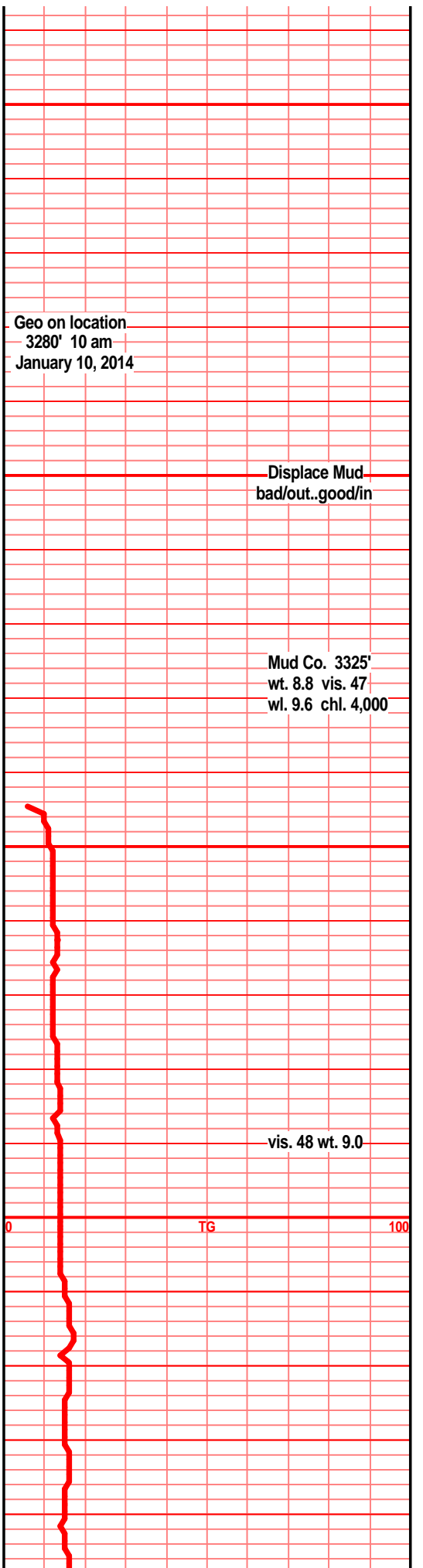
Scale Change
 TG 0 100

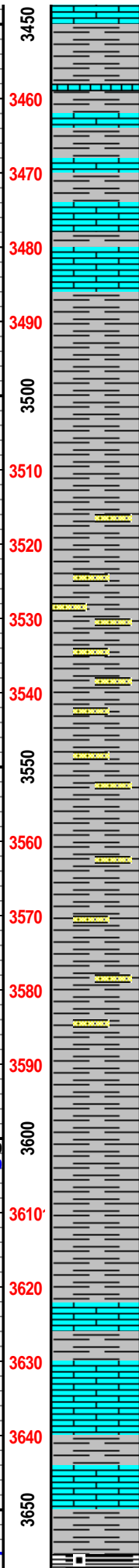
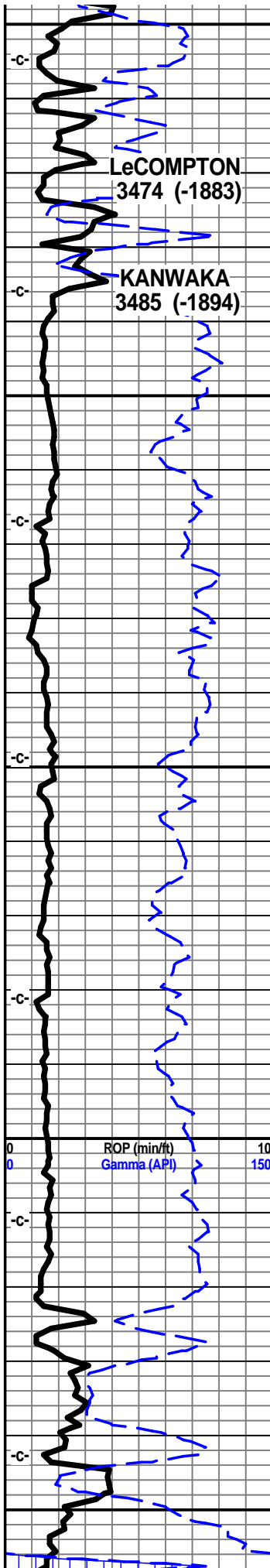


Kansas City "Hertha"
 B/Kansas City
 Cherokee Group
 Mississippian
 Miss Osage
 Compton
 Kinderhook
 Woodford
 Viola
 Simpson Group
 Wilcox
 McLish Shale

Oil and Gas Show Legend
 ☒ Gas
 ● Even Stain/Saturation
 ● Spotted Stain/Saturation
 ○ Questionable Show
 □ Dead/Gilsonitic

shl gry drk gry, drk gry/brnsh gry, silty gritty, calc text
 shl calc shl, drk gry, drk gry brn silty gritty
 shl drk gry, drk gry/brn silty gritty, calc text,
 shl gry drk gry, drk brnsh gry, silty gritty, calc text.
 shl drk gry, gry blk, tr blk semi carb text, gran soft to blk ang hrd pcs





shls, drk gry blk, tr blk carb text, lst tan gry, drk brn f mic xln, dns hrd blk arg, arg, silty gritty, tr sndy text,

lst tan drk tan gry brn f vf xln dns hrd blk arg arg, tr sub chlky, tr calc fill, sndy gritty text, arg in most, tr foss frags, calc filled voids

shl gry med lt gry, silty sndy gritty, sst shly sst, f grnd, sub ang grns, prly srted, mic, blk carb flks

shl, silty sndy shl, gritty, f grnd sub ang grns, prly srted, sub fria, arg, silty, blk carb flks

shl gry lt gry silty gritty sndy, sst lt gry, wht/gry f grnd sub ang, prly srted, sub fria, to blk arg clstrs, arg, silty, mic, blk carb flx

shl gry lt gry silty sndy gritty, sst off wht lt gry f grnd sub ang grns prly srted, sub fria, mic, arg, blk carb flxs,

sh gr med lt med gry silty gritty, sst off wht lt gry/tan, fgrnd, sub ang/ang grns, prly srted, sub fria to tite blk arg arg silty clstrs

shl gry lt med gry soft silty, tr gritty,

shl gry med gry soft gran muddy, spls wsh med/drk gry

lst drk gry, drk tan mstly grn, fn sli med xln, gran blk arg arg, calc frags, tr crs foss frags, tr sub chlky

shl gry gritty gran calc, lst drk tan brn f sli med xln gran blk arg sub chlky, calc frags, arg silty in prt

shl gry blk, drk gry blk, carb, wxy grsy text, blk arg arg arg blk

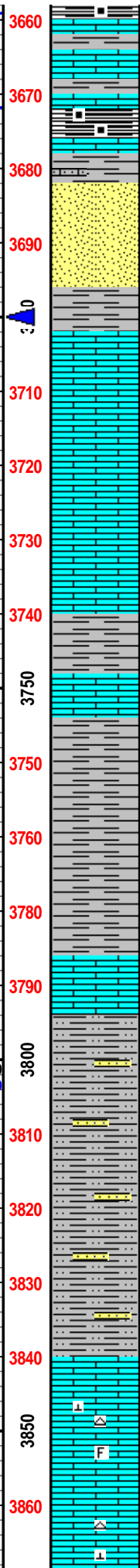
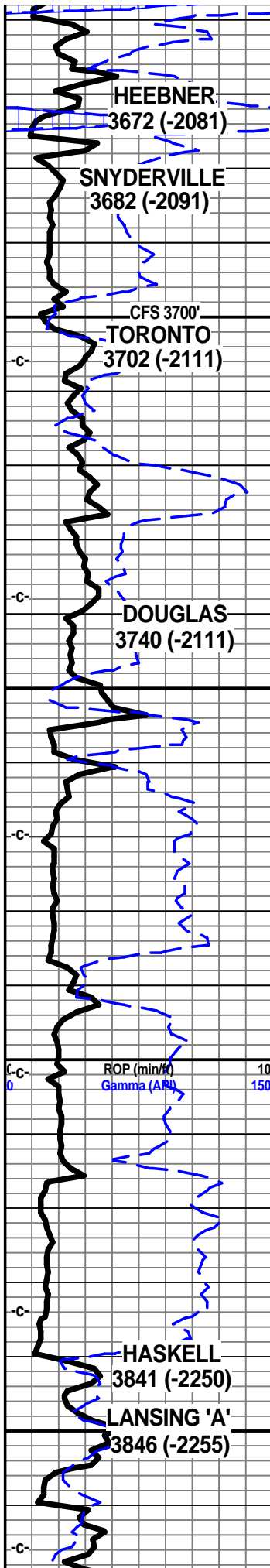
wt. 9.0 vis. 50

3520' 7 pm
Friday
January 10, 2014

wt. 8.9 vis. 50

wt. 9.0 vis. 52

TG



dky ang pcs, gas bubs

lst drk tan brn f vf xln dns hrd blkly ang tr arg, calc frags, tr foss frags, arg, silty tr gritty text

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

sst off wht tan clstrs, f vf grnd, sub ang/ang grns, fairly srtd, w/cem, calc cem, non fria, firm, blkly ang dns gran clstrs NVP NS

shl gry lt gry, off wht lt gry, silty gritty, soft gran, tr sm clr sub ang prly srtd snd grn inclu, blk soft sli carb shl beds

lst crm off wht tan, tr buff, f xln, gran, soft, sub chlky, tr micro foss frags,

lst wht off wht tan f xln gran soft, sub chlky, tr foss frags, tr calc xln fill,, micro foss frags,

shl gry, med gry soft calc, lst tan off wht f xln gran arg sub chlky foss frags, micro xln in prt, calc xln fill

gry-drk gry shl, mica, brittle, blkly

gry shl, soft, lam of blk shl, tabular

shl gry-drk gry, micas, brittle, lst tan, sub ang, xln, foss frags, calc fill, hrd, lttl chlky

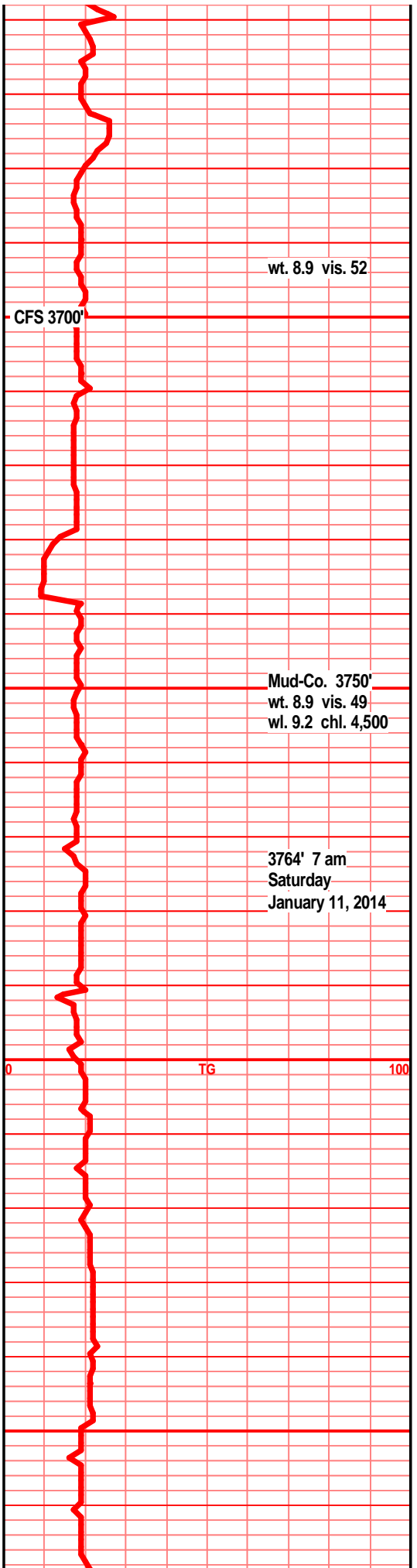
gry-drk gry shl, very mica, hrd

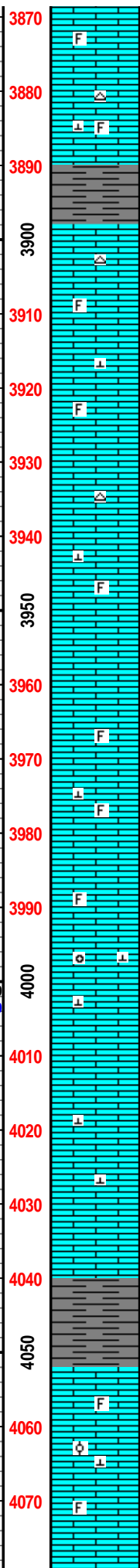
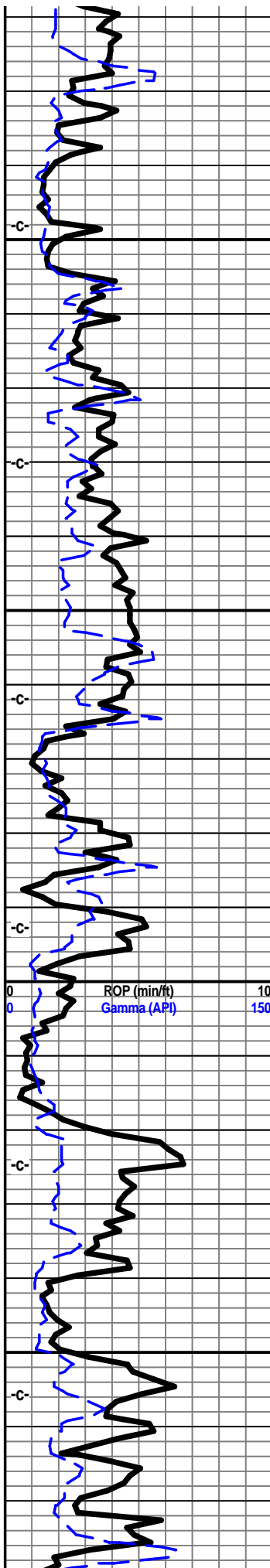
gry shl, very mica, soft, gritty texture, silty-vfn sand, sub ang, blkly

gry silty shl, micas, blkly, soft, vfn sand inclusions, pyritic

lt brn-brn lst, ang, blkly, xln, hrd, foss frags, calc fill, off wt lst, xln, sub ang, chlky, hrd

gry-drk gry shl, micas, tabular, pyritic, sub ang





off-wt lst, xln, chlky, chrty, sub ang, soft, drk
brn tan lst, ang, blk, hrd, foss frags, calc fill,
hard

lt gry lst, hrd, sub ang, blk, xln, foss frags,
calc fill, ltlt chrty, off wt lstn, chlky, sub ang,
calc xls

lt crmy tan lst, aub ang, hrd, foss frags, calc
fill, hrd, ltlt chrty, lt gry shl, pyritic, tabular,
waxy on break

tan lst, xln, sub ang, ltlt chl, calc xls, foss
frags w/ calc fill, hrd, lt brn lst, hrd, blk, sub
ang, xln, foss frags, pyritic, ltlt micas, calc fill,
ltlt chrty

tan lstn, xln, sub ang, lots of foss frags, calc
fill, hrd, brittle, lt tan lst, calc xls, foss frags w/
calc fill, sub ang, hrd, ltlt chrty

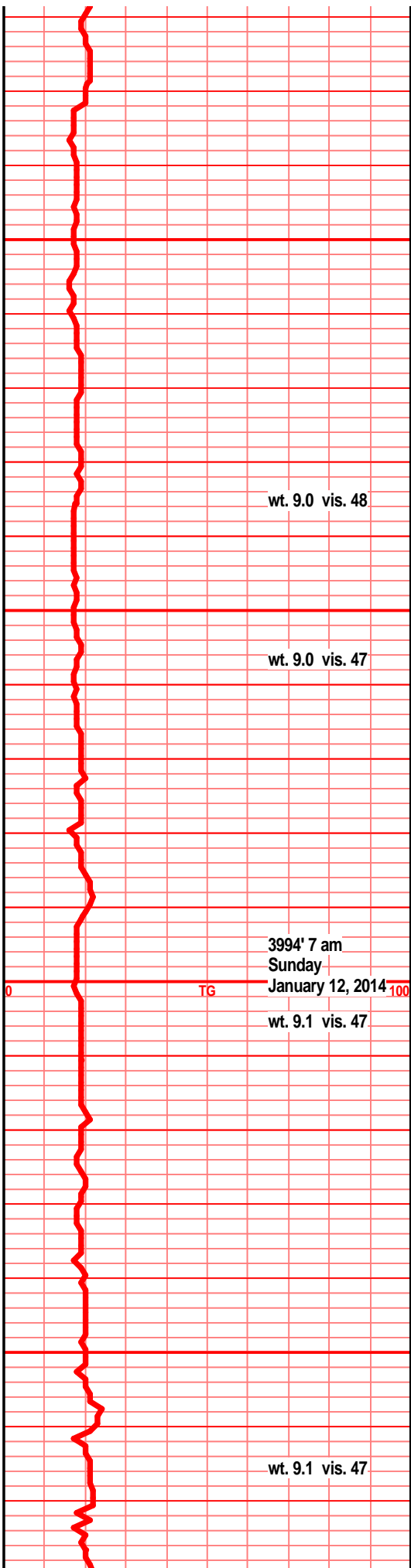
tan-brn lst, lots of foss frags, oolmoldic, sub
ang, hrd, calc fill and xln, ltlt chrty, lt gry-tan
lst, sub ang, ltlt micas, ltlt pyritic, hrd, ltlt chrty

tan lst, xln, hrd, vltlt micas, calc xls, sub ang,
blk, gry shl, tabular, waxy on brk, hrd, blk shl
lam, lt tan-off wt lstn, soft, xln, chrty, sub ang

gry-drk gry shl, tabular, sub ang, brittle, pyritic

lt brn-tan lst, xln, sub ang, hrd, calc xls, ltlt
chrty, pyritic, ltlt micas, foss frags, oolitic

arv-drk arv siltv shl. tabular. brittle. pyritic. sub

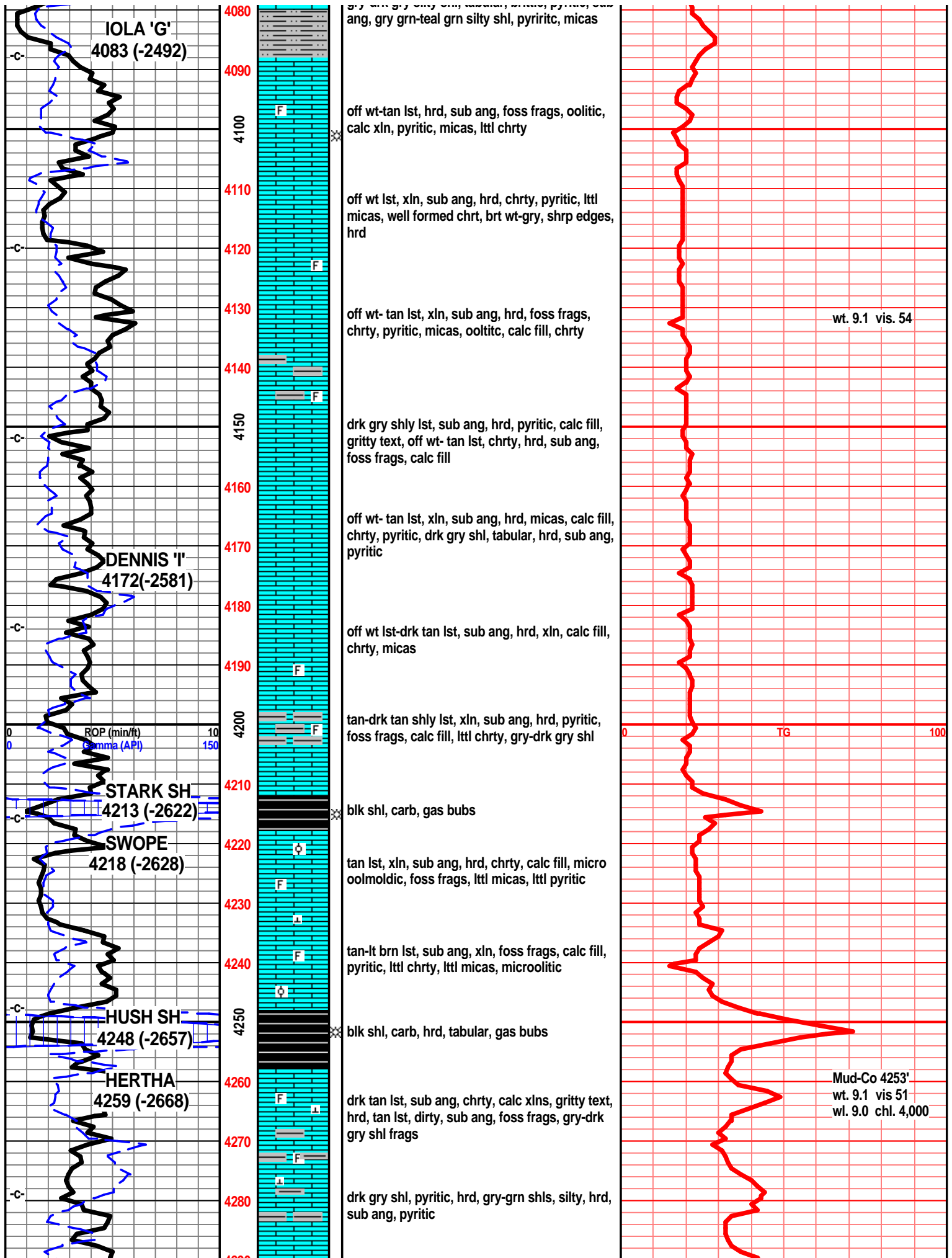


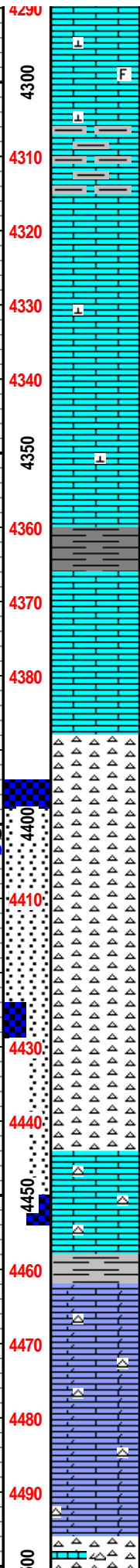
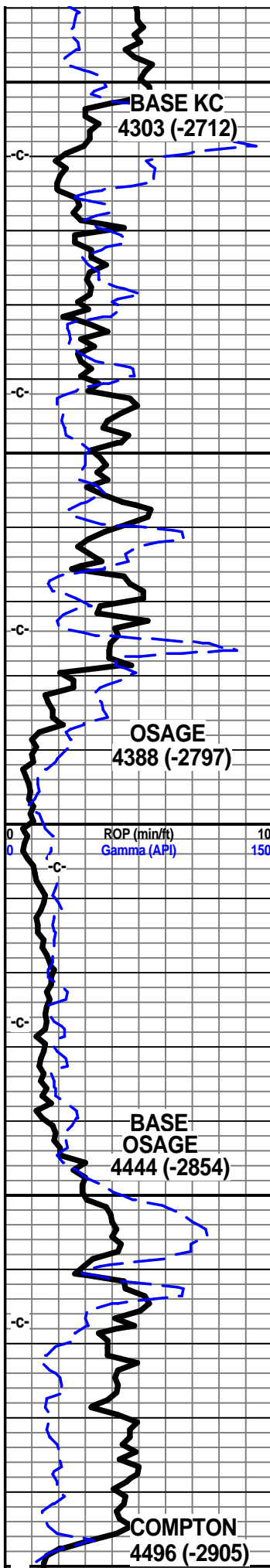
wt. 9.0 vis. 48

wt. 9.0 vis. 47

3994' 7 am
Sunday
January 12, 2014 100
wt. 9.1 vis. 47

wt. 9.1 vis. 47





tan-gry lst, sub ang, xln, brt wt chrt, hrd, foss frags, calc fill, lttl micas, lttl pyritic, gritty text

tan gry- drk tan gry lst, sub ang, xln, hrd, calc fill, pyritic, micas, gritty-dirty text, gry-drk shls, pyritic, tabular, hrd

lt tan lst, sub ang, soft, lttl chrty, chlky, fn xln, calc fill, brks into mush

tan-lt tan lst, sub ang, fn xln, lttl calc fill, chrty, chlky on brk, gry shl, sub ang, blkly, gritty text, micas

gry-drk gry shl, tabular, pyritic

lt tan- tan lst, rough gritty weathered text, sub ang, hrd, calc xln, lttl chrty, oil stain, gas bubs

lt tan chrt, brt wt on brk, calc, hrd, shrp edges on brk, show of free flowing oil, oil stain, gas bubs on brk, good odor

brt wt chrt, weathered spongy text, sub ang, drk oil stain, sfo, gas bubs, spits oil w/ gas bubs, good strong odor

brt wt chrt, sub ang, weathered text, glauc, hrd, drk oil stain, strong odor, gas bubs on brk, sfo, wt-lt tan chrt, ang, shrp edges, smooth text, xln, brn oil stain

wt chrt, sub ang, hrd, rough weathered text, spongy por, drk brn oil stain, lttl gas bubs, sfo, good odor, wt-lt tan chrt, smooth, shrp edges, ang

gry wt-lt grn cht, shrp edges, sub ang, spotted drk brn oil stn, no sfo, no gas bubs, almost tar like

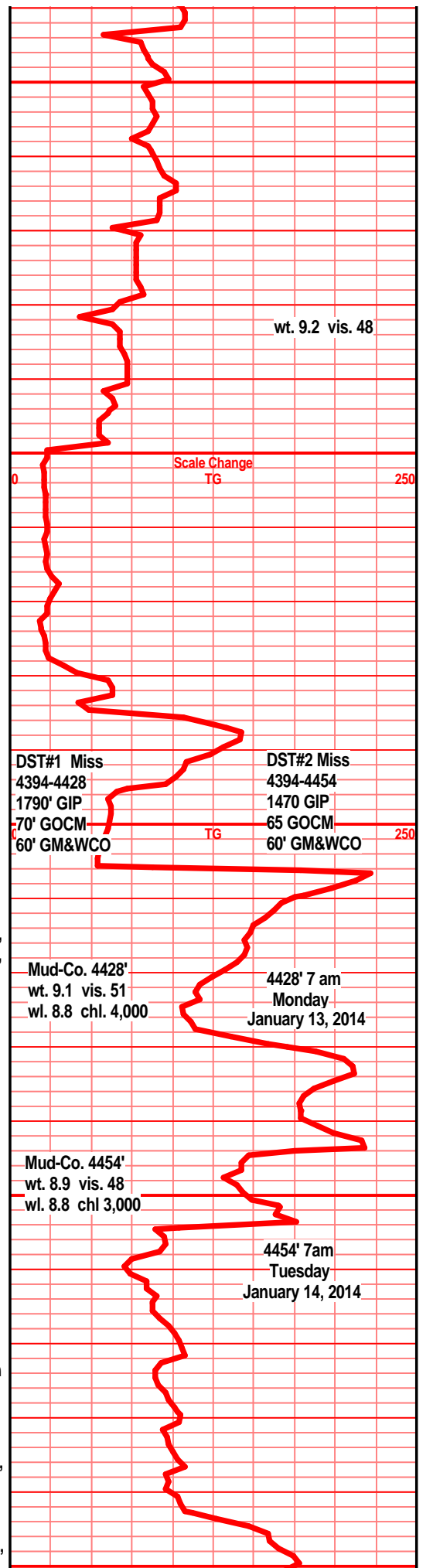
lt tan chrty lst, xln, sub ang, hrd, lt tan-brn transparent chrt on edges, brt wt on brk

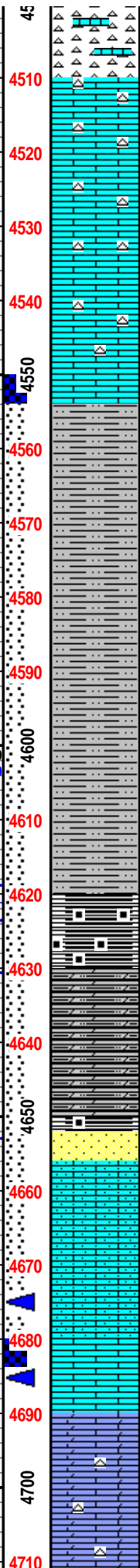
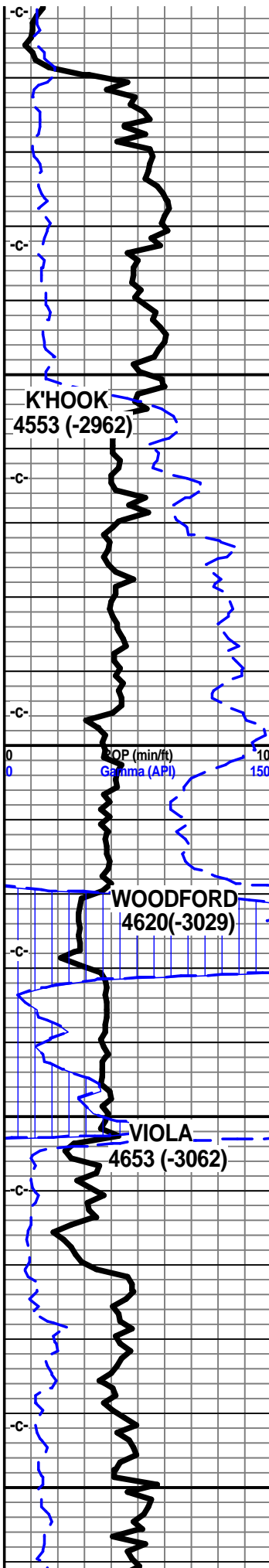
grn-grn gry shl, lttl pyritic, lams of black shl, sub ang, tabular, lt grn-teal green shl, waxy look, soft, sub ang, tabular

tan dolomitic lst, xln, sub ang, hrd, calc fill, brn chrt, golden brn edges, sub ang, little transparent, brks into brt wt pieces

tan brn-lt brn dolomitic lst, fn xln, hrd, sub ang, lttl chrty looking edges on break

wt-lt blu/wt chrt, sub ang, weathered, crumbles, lt brn-drk brn stain, nsfo, no odor, no gas





wt-blue wt lst, xln, chrty, hrd, sub ang, weathered mottled text, drk oil stain, nsfo, no gas, no odor, tar like stains

tan-off wt lst, fn xln, lttl trace foss, sub ang, hrd, rough gritty text, interbedded chrt, tan-lt brn, transparent, shrp edges, hrd, w/ well developed shrp blk pieces of chrt

some wt-off wt chrt, hrd, ang, shrp edges

tan-gry tan lst, chrty, hrd, xln, sub ang, tan-dirty brn chrt, shrp edges, ang, hrd, lttl transparent, dirty look

drk gry shl, silty, gritty, pyritic, sub ang, tabluar, gry shl, silty, w/ blk shl lams

drk gry shl, reddish hue, silty, gritty, tabular, sub ang, gry shl, silty w/ blk shl lams

drk gry shl, reddish hue, silty, gritty, w/ lam of blk shl, pyritic, sub ang, gry shl, silty, w/ blk lams

blk shl, silty, pyritic, tabular, sub ang

drk gry shl, silty, silt bedding, stingers of vfn sand, pyritic, blk shl lams

drk gry shl, silty, reddish hue, gry shl, silty, blk shl lams, blk shl, silty, pyritic

blk shl, carb, hrd, sub ang, tabular

blk silty dolomite, carb, reddish tint, pyritic, shly lams on brk, lttl bedded wt chrt inclus

lt brn sst, hrd, ang, dnse clusters, blk poorly sortd, pyritic, clay nodules, dead filmy show oil, occasional gas bub, no odor, brn stain

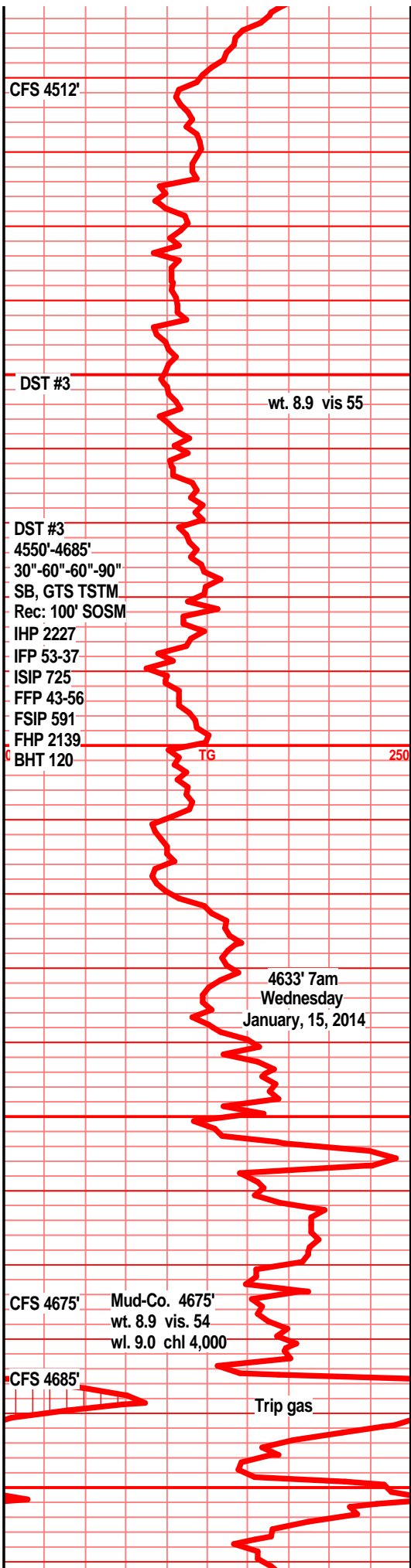
off wt-lt gry brn sndy lst, fn-med xln lst, hrd, sub ang, blk, hrd, dnse clusters, fn grn, occassional gas bub, lt brn stain, slight odor, intercrystalline porosity, light translucent show free oil

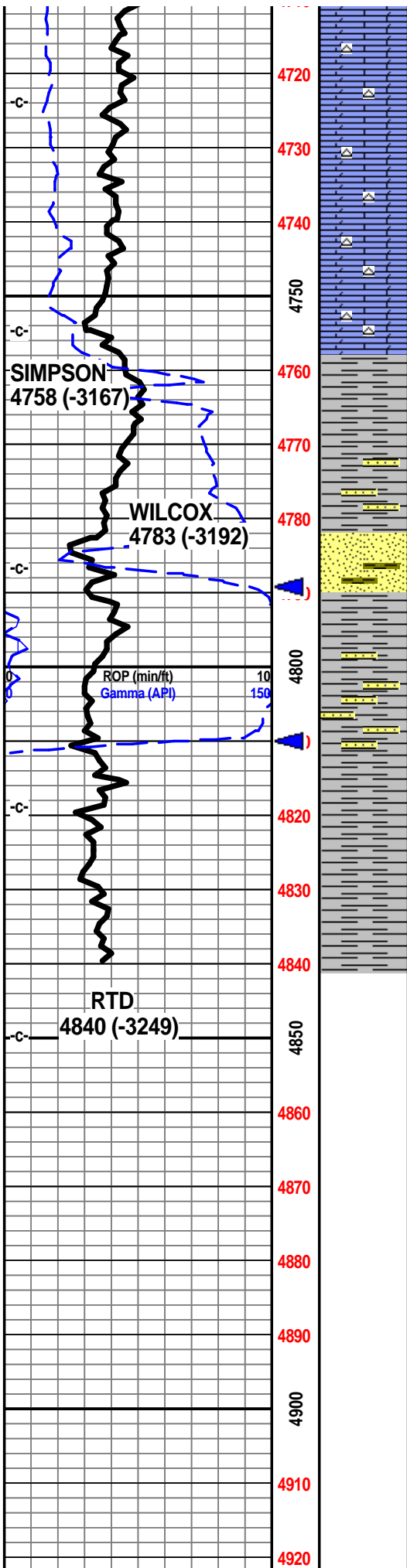
wt gry-grn gry lst, sub ang, vfn-fn sand inclus, hrd, dnse clusters

off wt lst, xln, lttl chlky, brittle, micas, quartz xln

lst off wht lt gry, gry/wht mott, f sli med xln, blk ang, tr foss frags, tr pyritic, crs calc xln in prt

lst aa inc ls, tr dolo text, t tan dull tan lt brn f xln gran gritty, sndy text, blk ang dns tr sub chlky text, chrty in prt, chrt dull tan lt brn shrp frsh opa, pyritic





lst, dolo in prt, dull tan brn f xln gran gritty sndy text, tr chlky gran text, chrt in prt, chrt dull tan brn shrp frsh opa

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

lst/dolo drk tan dull brn f vf xln dns hrd blk ang, chrty, incr chrt, drk tan dull brn shrp frsh sub opa,

lst/dolo drk brn f mic xln gritty sndy, dns hrd blk, much chrt, drk brn shrp frsh blk ang sub opa

shl drk gry green, blue gry teal green, some w/clr f grnd sub ang snd grn inclu, pyritic, silic cem/contact

shl aa, w/gry green f grnd sst inclu, sub ang, prly srtd w/cem, pyritic, silic, dns, hrd, arg, clay fill, sst drk gry blue/green, f grnd sub ang prly srtd, pyritic, hrd

sst tan lt brn clstrs, f grnd, sub ang grns, fair srtd, fair cem, sub fria, inter gran por, filmy oil smears, tr hvy blk stain, nodor

shl drk gry, drk gry green, blue green, gritty pyritic, w/sst inclu, clr grns, f grnd, prly srtd, pyritic, sub fria to tite, glau in prt, mstly hrd blk ang arg pyritic clstrs

shl drk gry green, drk blue green, silty gritty, sndy, w/sd grn and sd clstrs inclusions aa

shl gry green, blue green, teal green silty gritty, snd grn inclu, pyritic, bedded, tr sst wht off wht clstrs, f grnd, sub ang/sub rd, prly srtd, w/cem, sub fria, arg, clay clasts, pyritic,

shl gry green deep gry green teal blue gry green silty gritty sndy, pyritic, sst clstrs aa

7 am 4732'
Thursday
January 16, 2014

CFS 4789'

Mud Co. 4789'
wt. 9.0 vis. 55
wl. 9.0 chl. 5,000
lcm. 7# bbl

CFS 4810'

RTD 4840'

A grid with a vertical axis on the right side. The axis is labeled with the following values from top to bottom: 4930, 4940, 4950, 4960, 4970, 4980, 4990, and 00. The grid consists of 10 columns and 100 rows.

WOOLSEY OPERATING COMPANY
KIRKBRIDE 1-1
330' FNL & 582' FWL
N 1/2 NW NW
SEC 21 - TWP 32S - RGE 12W
MEDICINE LODGE NORTH FIELD
BARBER COUNTY, KANSAS
API# 15-007-24121-00-00

A grid with a red border and red grid lines. A single horizontal red line is drawn across the grid, approximately halfway down. The grid consists of 10 columns and 100 rows.