



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1222630
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: _____

1222630

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> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 063182

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge Ks

DATE <u>5-14-14</u>	SEC. <u>13</u>	TWP. <u>34S</u>	RANGE <u>11 W</u>	CALLED OUT	ON LOCATION <u>9:00pm</u>	JOB START <u>10:55P</u>	JOB FINISH <u>11:30P</u>
LEASE <u>Ricke A</u>		WELL# <u>2</u>		LOCATION <u>Garland + Bethel Rd 2.55</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)				E into			

CONTRACTOR Fossil
 TYPE OF JOB Surface
 HOLE SIZE 17 1/2 T.D. 225'
 CASING SIZE 13 3/8 DEPTH 225'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 250 MINIMUM
 MEAS. LINE SHOE JOINT 20
 CEMENT LEFT IN CSG. 20'
 PERFS.
 DISPLACEMENT 30.3/4

OWNER Woolsey
 CEMENT
 AMOUNT ORDERED 300 sx Class A + 3% CC + 2% Gel
 COMMON A 300 sx @ 17.90 5370.00
 POZMIX @
 GEL 6 sx @ 23.40 140.40
 CHLORIDE 11 @ 64.00 704.00
 ASC @

WELL FILE

Regulatory Correspondence
 (Circled) Comp Workovers
 Tests / Meters Operations
 @
 @
 @
 @
 HANDLING @
 MILEAGE @

EQUIPMENT
 PUMP TRUCK CEMENTER Jake Heard
 # 892-555 HELPER CJ Rackley
 BULK TRUCK
 # 381-252 DRIVER Hector TWS
 BULK TRUCK
 # DRIVER

REMARKS:

On Location Safety Meeting Rig up
 Safety meeting Break circ pressure
 Test pump spacer mix + pump
 Cmt. Stop Start Disp Washup
 Shut in Release pressure.

1242.88 20% TOTAL 6214.40

SERVICE

DEPTH OF JOB 225'
 PUMP TRUCK CHARGE 1512.75
 EXTRA FOOTAGE LV 20 @ 4.40 88.00
 MILEAGE 20 @ 7.70 154.00
 MANIFOLD @
Handling 324.40 @ 2.48 804.51
Mileage 296.1 @ 2.60 769.86
665.82 20% TOTAL 3329.12

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

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 9543.52
 DISCOUNT _____ IF PAID IN 30 DAYS
NET 7634.81

PRINTED NAME X MIKE THARP
 SIGNATURE X Mike Tharp

JUN 11 2014

ALLIED OIL & GAS SERVICES, LLC 063187

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Madrina Lodge Ks

DATE <u>5-24-14</u>	SEC <u>13</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT	ON LOCATION <u>1:00A</u>	JOB START <u>5:30A</u>	JOB FINISH <u>7:00A</u>
LEASE <u>Ricke</u>	WELL# <u>A 2</u>	LOCATION <u>Garlane + Bethel 2.5 s</u>			COUNTY <u>Barber</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			F into				

CONTRACTOR Fossil Drilling
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5210
 CASING SIZE 5 1/2 DEPTH 5026
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 45.50
 CEMENT LEFT IN CSG. 45.50
 PERFS.
 DISPLACEMENT 120 BBL 2% KCL
 EQUIPMENT

OWNER Woolsey
 CEMENT
 AMOUNT ORDERED 90 sx 60:40:4% Gel
100sx Class H + 10% Gyp + 10% Salt +
6# Kolseal + .8% FH60 + 1/4# Floseal
 COMMON A 54 sx @ 17.90 966.60
 POZMIX 36 sx @ 9.35 336.60
 GEL 3 sx @ 23.40 70.20
 CHLORIDE @
 ASC @
 H 100 sx @ 21.20 2120.00
Gypseal 10 sx @ 37.60 376.00
Salt 11 @ 26.35 289.85
Kolseal 600# @ .98 588.00
Fl-160 75# @ 18.90 1417.50
Floseal 25 @ 2.97 74.25
Claprov 13 bbls @ 34.40 447.20
 HANDLING @
 MILEAGE @
1337.24 = 20% TOTAL 6,686.20

PUMP TRUCK CEMENTER Jake Heard Dustin Smith
 # 548/545 HELPER Justin Bower
 BULK TRUCK
 # 819/823 DRIVER Michale Swiney James Bower
 BULK TRUCK
 # DRIVER

REMARKS
WELL FILE
 Regulatory Correspondence
 Drig / Comp Workovers
 Tests / Meters Operations

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

SERVICE
 DEPTH OF JOB 5026
 PUMP TRUCK CHARGE 2765.75
20 @ 4.40 88.00
 MILEAGE 20 @ 7.70 154.00
 MANIFOLD @ 275.00
Handling 225.94 @ 2.48 560.33
Drage 9.81/20/2.60 @ 510.35
870.68 = 20% TOTAL 4353.43

PLUG & FLOAT EQUIPMENT
1 AFU Float Shoe @ 408.33
20 Recip Scratchers @ 88.92 1778.40
9 Turbolizers @ 93.60 842.40
1 LDP Assmb. @ 324.09
 TOTAL 3353.22

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 X MIKE TARP
 SIGNATURE X Mike Tarp

SALES TAX (If Any) _____
 TOTAL CHARGES 14,392.85
 DISCOUNT _____ IF PAID IN 30 DAYS
NET 12,184.92



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N Market Ste 1000
Wichita, KS 67202

ATTN: Bill Klaver

Ricke A #2

13-34S-11W Barber,KS

Start Date: 2014.05.20 @ 20:37:29

End Date: 2014.05.21 @ 06:20:59

Job Ticket #: 58990 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.21 @ 11:49:11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

13-34S-11W Barber,KS

Ricke A #2

Job Ticket: 58990

DST#: 1

Test Start: 2014.05.20 @ 20:37:29

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:29:14

Time Test Ended: 06:20:59

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 4570.00 ft (KB) To 4722.00 ft (KB) (TVD)

Reference Elevations: 1408.00 ft (KB)

Total Depth: 4722.00 ft (KB) (TVD)

1396.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 137.81 psig @ 4571.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.20

End Date:

2014.05.21

Last Calib.:

2014.05.21

Start Time: 20:37:30

End Time:

06:20:59

Time On Btm:

2014.05.20 @ 23:20:44

Time Off Btm:

2014.05.21 @ 04:04:59

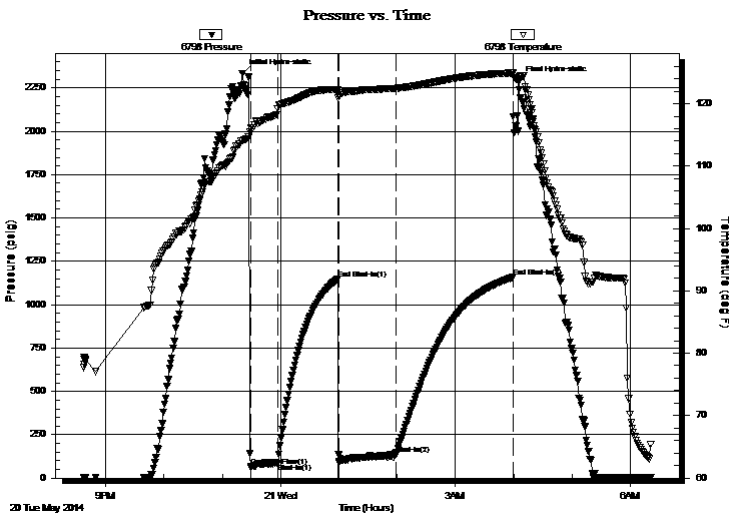
TEST COMMENT: IF: Strong Blow , BOB in 90 seconds

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 25 minutes, TSTM, Caught Sample

FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2333.91	114.08	Initial Hydro-static
9	66.86	116.13	Open To Flow (1)
37	85.01	119.25	Shut-In(1)
98	1147.91	122.30	End Shut-In(1)
100	91.39	121.12	Open To Flow (2)
159	137.81	122.45	Shut-In(2)
279	1158.28	124.93	End Shut-In(2)
285	2289.98	124.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4311 GIP	0.00
261.00	GCM 10%G 90% M	1.56

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

13-34S-11W Barber, KS

Ricke A #2

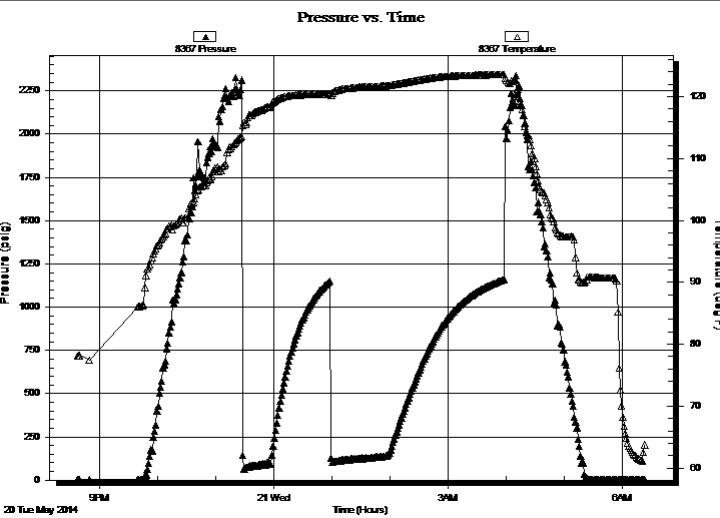
Job Ticket: 58990 **DST#: 1**
 Test Start: 2014.05.20 @ 20:37:29

GENERAL INFORMATION:

Formation: Mississippi			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 23:29:14		Tester: Leal Cason	
Time Test Ended: 06:20:59		Unit No: 74	
Interval: 4570.00 ft (KB) To 4722.00 ft (KB) (TVD)		Reference Elevations: 1408.00 ft (KB)	
Total Depth: 4722.00 ft (KB) (TVD)		1396.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 12.00 ft	

Serial #: 8367	Outside		
Press@RunDepth: psig @ 4571.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2014.05.20	End Date: 2014.05.21	Last Calib.: 2014.05.21	
Start Time: 20:37:30	End Time: 06:23:29	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
 IS: No Blow Back
 FF: Strong Blow , BOB immediate, GTS in 25 minutes, TSTM, Caught Sample
 FS: No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	4311 GIP	0.00
261.00	GCM 10%G 90% M	1.56

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

13-34S-11W Barber,KS

125 N Market Ste 1000
Wichita, KS 67202

Ricke A #2

Job Ticket: 58990

DST#: 1

ATTN: Bill Klaver

Test Start: 2014.05.20 @ 20:37:29

Tool Information

Drill Pipe:	Length: 4341.00 ft	Diameter: 3.80 inches	Volume: 60.89 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 231.00 ft	Diameter: 2.25 inches	Volume: 1.14 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 62.03 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4570.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	152.00 ft			
Tool Length:	178.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4549.00	
Hydraulic tool	5.00			4554.00	
Jars	5.00			4559.00	
Safety Joint	2.00			4561.00	
Packer	5.00			4566.00	26.00 Bottom Of Top Packer
Packer	4.00			4570.00	
Stubb	1.00			4571.00	
Recorder	0.00	6798	Inside	4571.00	
Recorder	0.00	8367	Outside	4571.00	
Perforations	4.00			4575.00	
Change Over Sub	1.00			4576.00	
Drill Pipe	127.00			4703.00	
Change Over Sub	1.00			4704.00	
Perforations	15.00			4719.00	
Bullnose	3.00			4722.00	152.00 Bottom Packers & Anchor

Total Tool Length: 178.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

13-34S-11W Barber,KS

125 N Market Ste 1000
Wichita, KS 67202

Ricke A #2

Job Ticket: 58990

DST#: 1

ATTN: Bill Klaver

Test Start: 2014.05.20 @ 20:37:29

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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4311 GIP	0.000
261.00	GCM 10%G 90% M	1.557

Total Length: 261.00 ft Total Volume: 1.557 bbl

Num Fluid Samples: 0

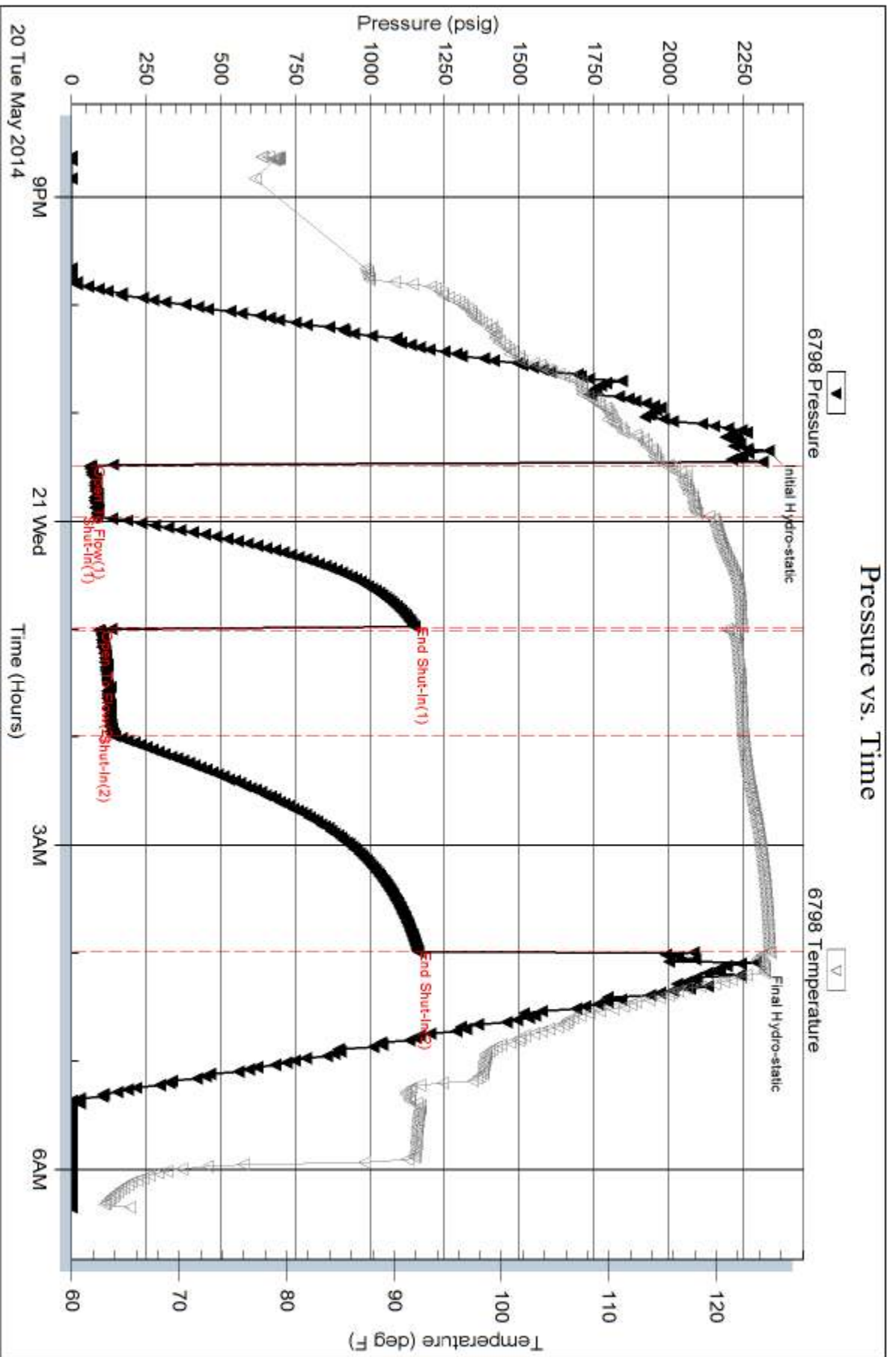
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

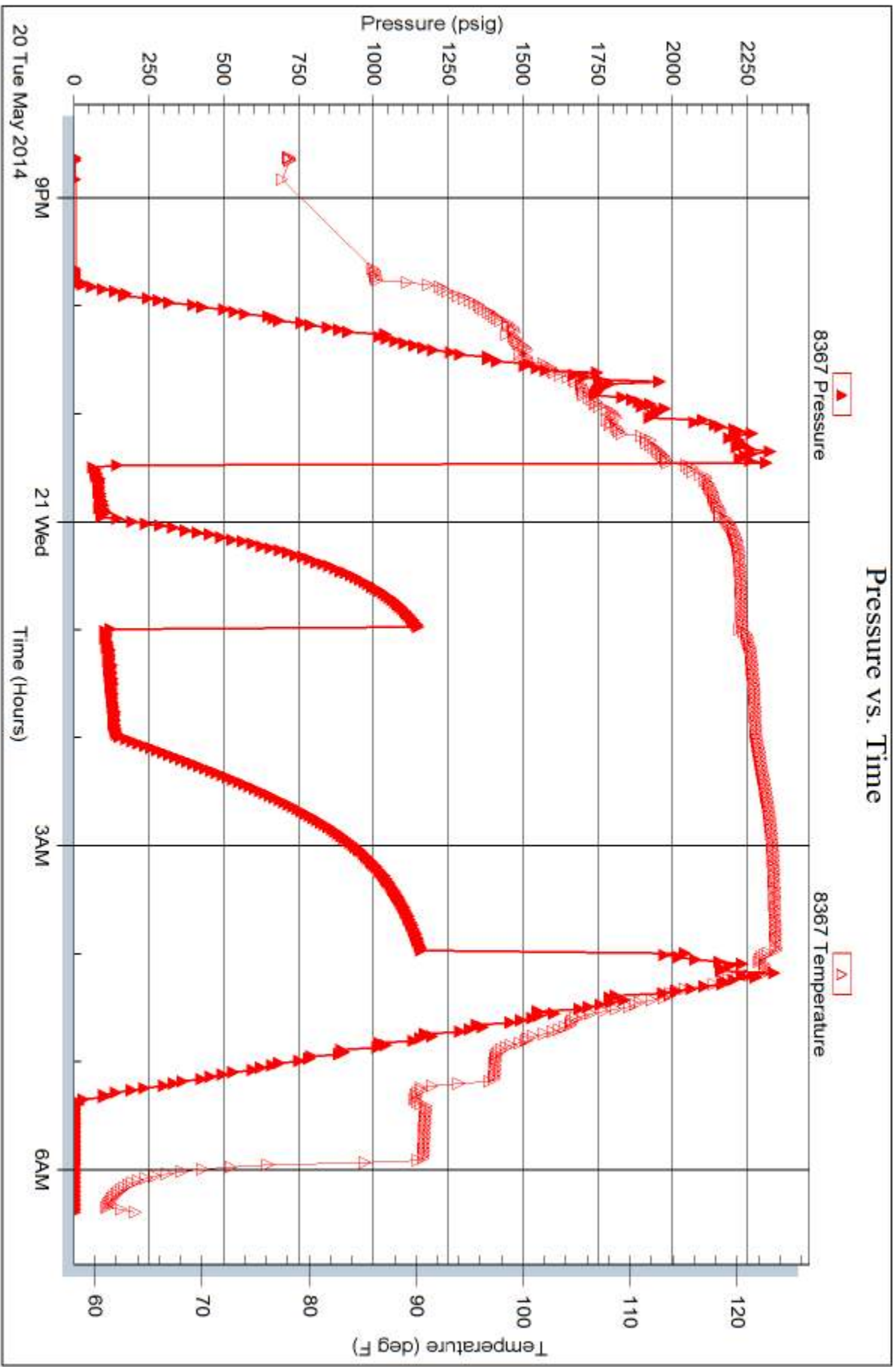


Serial #: 8367

Outside Woodsey Operating Co

Ricke A #2

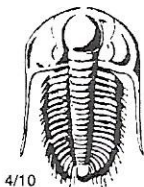
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58990

Printed: 2014.05.21 @ 11:49:12



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58990

Well Name & No. Ricke A-1 Test No. 1 Date 05/20/14
 Company Woolsey Operating CO Elevation 1408 KB 1396 GL
 Address 125 N. Market Ste 1000 Wichita, KS 67202
 Co. Rep / Geo. Bill Klaver Rig Fossil 3
 Location: Sec. 13 Twp. 34S Rge. 11W Co. Barber State KS

Interval Tested 4570 - 4722 Zone Tested Mississippi
 Anchor Length 152 Drill Pipe Run 4341 Mud Wt. 9.1
 Top Packer Depth 4565 Drill Collars Run 231 Vis 54
 Bottom Packer Depth 4570 Wt. Pipe Run 0 WL 9.6
 Total Depth 4722 Chlorides 6000 ppm System LCM 3

Blow Description IF: strong blow, BOB in 90 seconds
ISI: NO Blow Back
FF: strong blow, BOB immediate, GTS in 25 minutes, TSTM, caught sample
FST: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>4311</u>	<u>GTP</u>				
<u>261</u>	<u>GCM</u>	<u>10%</u>			<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 261 BHT 125 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 2334 Test 1250 T-On Location 19:30
 (B) First Initial Flow 67 Jars 250 T-Started 20:37
 (C) First Final Flow 85 Safety Joint 75 T-Open 23:29
 (D) Initial Shut-In 1148 Circ Sub _____ T-Pulled 03:58
 (E) Second Initial Flow 91 Hourly Standby 1 T-Out 06:20
 (F) Second Final Flow 138 Mileage 1109 170.50
 (G) Final Shut-In 1158 Sampler _____
 (H) Final Hydrostatic 2290 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 120
 Sub Total 1745.50
 Total 1745.50
 MP/DST Disc't _____

Approved By Bill Klaver Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Ricke A #2

Location: Section 13 - Township 34 South - Range 11 West

License Number: 15-007-24171-0000

Region: Barber County, Kansas

Spud Date: May 14, 2014

Drilling Completed: May 23, 2014

Surface Coordinates: 1980' FNL & 330' FWL
W 1/2 SW 1/4 NW 1/4

Bottom Hole Coordinates:

Ground Elevation (ft): 1396' K.B. Elevation (ft): 1408'

Logged Interval (ft): 4000' To: 5210' Total Depth (ft): 5210'

Formation: Kansas City Group ----> Simpson Group

Type of Drilling Fluid: Chemical Mud, displaced at 3232'

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 3 pm on May 14, 2014, ran 5 joints of new 13 3/4" X 45#/ft casing to 225' KB (tally 210') with 300 sx Class A, 2% gel, 3% cc. Plug down 11:30 pm, cement did circulate.
Production Casing: 5 1/2" X 10.5#/ft

Deviation Surveys: 1 at 217', 3/4 at 1009', 1/4 at 1518', 1/2 at 2023', 1/2 at 2500', 3/4 at 3006', 1/4 at 3543', 1 1/4 at 4018', 1 3/4 at 4208', 1 at 4336', 3/4 at 4525', 1 @ 4722', 1 at 5210'.

Pipe Strap @ 4722', Board: 4747.68', Strap: 4744.43. Strap 3.25' short. No corrections were made to the board.

Fossil Drilling Company Rig #3 Bit Record:

- 1) 17 1/4" Varel RR-RT in at 0' out at 225', 2.5 hours
 - 2) 7 7/8" Varel HE-21 in at 225' out at 4722', 99 1/2 hours
 - 3) 7 7/8" Varel HE-32 RR in at 4722', out at 5210', 40 1/4 hours
- Bit #2 averaged 45'/hour, #3 averaged 12.1'/hour.

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud System: Mud Co./Service Mud. 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

DSTs

DST #1, Mississippi, 4570'-4722', 30"-60"-60"-120", SB BOB in 1 1/2 minutes, GTS in 25 minutes into 2nd flow, TSTM. Recovered: 4311' GIP, 261' GCM (10% Gas, 90% Mud). IHP 2333, IFP 66-85, ISIP 1147, FFP 91-137, FSIP 1158, FHP 2289. BHT 125 deg.

CREWS

Jim Wenrich, (Part Time) Tool Pusher

Daniel Orrantea, Daylights

Ron Burns, Evening

Colter Fishgrab, Morning

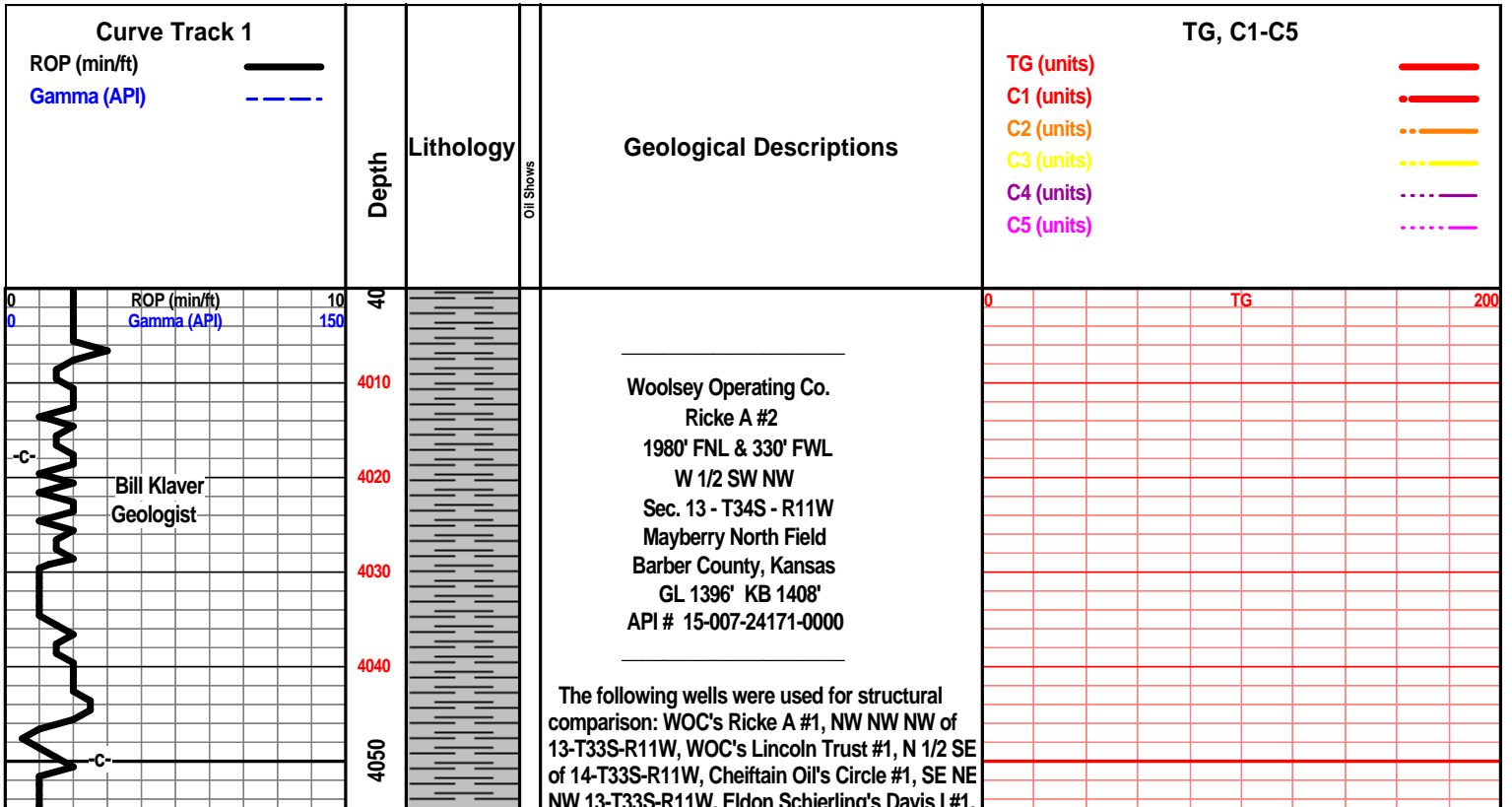
Chris Statts, Relief

ROCK TYPES

	Anhy		Shy dolo		Sltst		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		Shyslts		Lmst
	Congl		Salt		Sltys		Calc dol
	Sdy dolo		Shale		Ss 2		Shale 3

ACCESSORIES

MINERAL		Chlorite		Pelec		Grysh	
	Anhy		Dol		Gryslt		
	Arg		Sand		Lms		
	Bent		Silty		Sandylms		
	Bit	FOSSIL		Plant		Sh	
	Brecfrag		Algae		Strom		Sltstn
	Calc		Amph		Fuss	TEXTURE	
	Carb		Belm		Oomoldic		Boundst
	Chtdk		Bioclst	STRINGER		Chalky	
	Chtlt		Brach		Anhy		Cryxln
	Dol		Bryozoa		Arg		Earthy
	Ferrpel		Cephal		Coal		Finexln
	Ferr		Coral		Dol		Grainst
	Glau		Crin		Gyp		Lithogr
	Gyp		Echin		Ls		Microxln
	Marl		Fish		Mrst		Mudst
	Nodule		Foram		Sltstrg		Packst
	Phos		Fossil		Ssstrg		Wackest
	Pyr		Gastro		Carbsh		
	Salt		Oolite		Clystn		
	Sandy		Ostra		Dol		
	Silt						



C SW NE, 11 T33S-R11W.

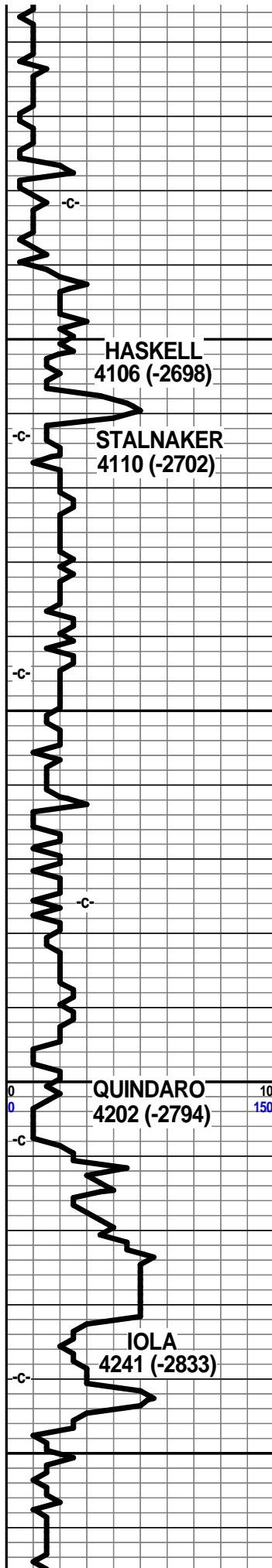
One minute drill time was recorded from 4000' to rotary total depth. Ten foot samples and circulating samples were roughneck gathered from 4400' to rotary total depth and delivered to the Survey at the completion of the test.

7 am Daily Progress:

- May 14, 2014 MIRT/SPUD
 - May 15, 2014 WOC at 225'
 - May 16, 2014 Drilling at 1615'
 - May 17, 2014 Drilling at 2550'
 - May 18, 2014 Drilling at 3400'
 - May 19, 2014 Drilling at 4195'
 - May 20, 2014 Drilling at 4558'
 - May 21, 2014 DST #1 at 4722'
 - May 22, 2104 Drilling at 4964'
 - May 23, 2014 Drilling at 5195'
- Logging by 2 pm

E-Log Tops:

- Herington
- Onaga
- Wabaunsee
- LeCompton
- Kanwaka
- Elgin Sand
- Heebner
- Toronto
- Douglas Group
- Amazonia
- Douglas Sand
- Haskell
- Lansing
- Kansas City 'G'
- Kansas City 'H'
- Kansas City 'I'
- Stark
- Swope
- Hushpuckney
- Hertha
- B/Kansas City
- Altamont
- Pawnee
- Cherokee Group
- Mississippi
- C3
- C2A
- C2
- Osage
- Northview Shale
- Compton
- Kinderhook
- Woodford
- Misener Sand
- Viola
- Simpson Group
- Wilcox Sand



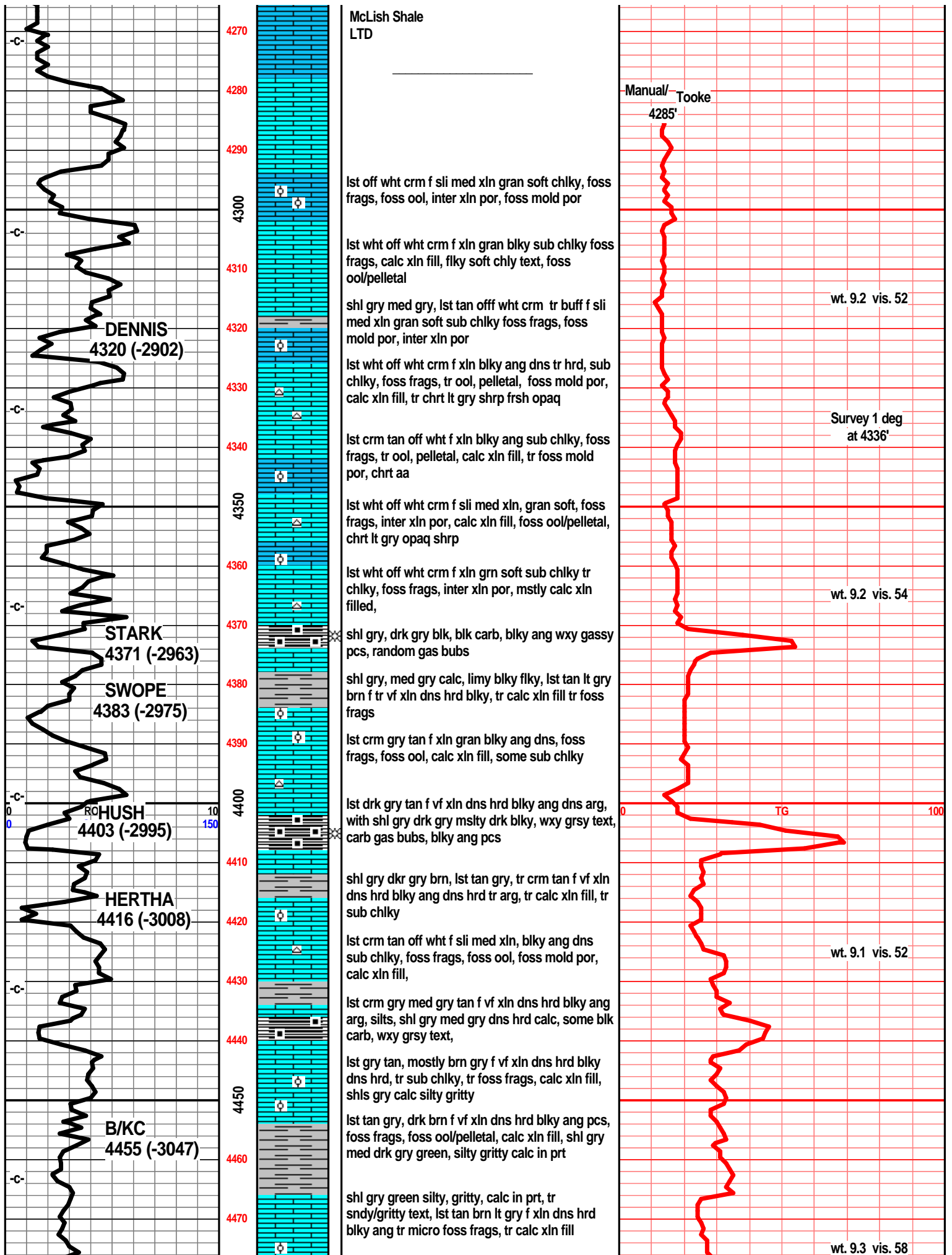
4060
4070
4080
4090
4100
4110
4120
4130
4140
4150
4160
4170
4180
4190
4200
4210
4220
4230
4240
4250
4260

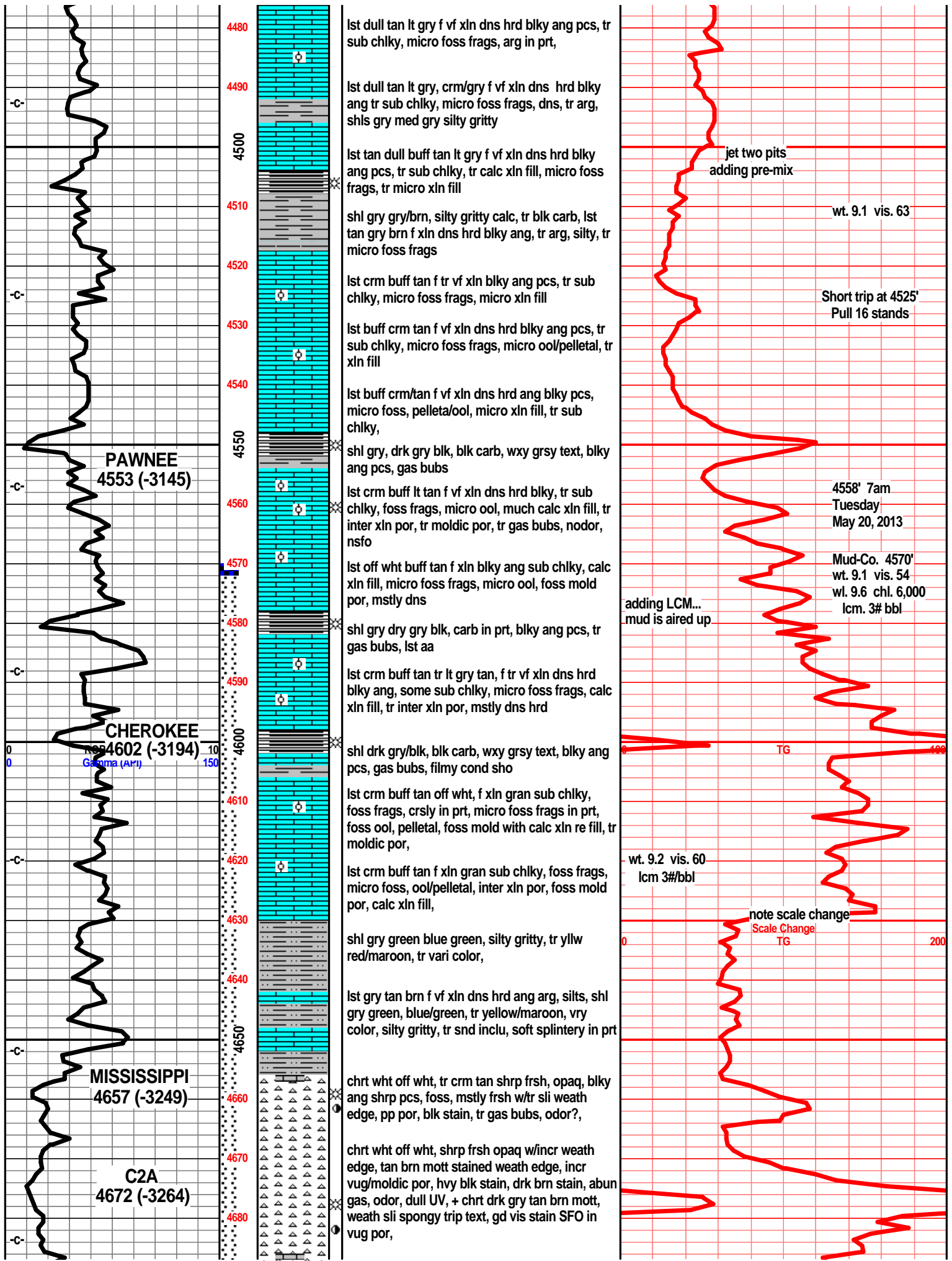
Scale Change
TG 0 100

At call geologist
of 4200' at 7:15 am
May 19, 2014

Mud Co. 4241'
wt. 9.1 vis. 52
wl. 9.0 chl. 6,500

Geo on loc 4245'
9:30 am
May 19, 2014





chrt wht off wht drk brn/blk mott, sli spongy trip weath text, mosly soft, fair to good vug/moldic por, gd stain, SFO in/around vugs, fair to good odor, incr gas bubs, dull UV + chrt off wht lt gry speckled/mott, frsh shrp blk ang sub opa, w/sli weath edges, w/blk stain, gas bubs

chrt wht off wht, lt gry, shrp frsh opa, w/off wht brn mott weath edge/sli spongy trip text, vug moldic por, drk brn stain/SFO fair/gd odor, gas bubs,

dolo crm tan lt tan gry f vf xln blk ang dns tr sub chiky, tr gran/sucr text, tr inter xln por, tr h lt gry blue frsh shrp chrt inclu, tr tan lt brn stain, nodor, tr glau fill

chrt dolo, tan crm off wht dolo, f vf xln gran sub sucr text, inter xln por, w/chrt inclu, gry tan brn, tr weath text edges, vug moldic por, drk brn stain SFO, gas bubs, sli odor, tr glau, weath chrt with dolo edges

dolo crm tan, lt gry tan f vf lxn gran sli sucr text, sub chiky, soft in prt, glau, iinter xln por, tan brn stain, chrt dolo, tan buff, tan gry f xln blk ang sub chiky, w/tan wht gry chert inclu, tr w/weath sli spongy trip text, pp moldic, tr vug por, tr stain, some gas bubs, nodor

dolo lst tan buff, tan gry f vf xln dns hrd blk ang, tr gran sub sucr text, tr inter xln por, msly hard dns, tr glau, tr chrt wht lt gry frsh shrp opa nodor

dolo, silty limy dolo, tan crm, tan gry mott, f vf xln dns hrd blk ang tr soft, tr gran sub sucr text, glau, chrt inclu, wht lt gry shrp frsh opa

dolo tan gry tan f vf xln gran blk ang dns hrd, tr softer gran sub sucr text, chrt in prt, wht lt gry shrp frsh chrt inclu

dolo gry tan f vf xln gran blk ang hrd dns, sub chiky, sli gran sub sucr text, wht lt gry shrp frsh chrt inclu

dolo aa, lst tan off wht lt gry green tint, blk ang hrd dns tr foss frags, chrt aa

dolo crm gry med gry f vf xln dns hrd blk ang, gran arg in prt, silty gritty, tr gran sub sucr text.

dolo lt tr med gry f vf xln gran blk ang dns arg, tr silty gritty, tr gran sub sucr text, shls gry blk blk ang hard gritty

shl gry drk gryblk, silty gritty, dolo, gry med gry f vf xln dns hrd blk ang dns arg silty gritty

dolo gry f vf xln gran blk ang dns hrd arg, sli sucr text, tr chrt wht lt gry shrp opa

lst wht off wht crm f vf xln dns hrd massive, tr glau, tr sub chiky, tr pyritic fill, dolo aa

shl gry, gry med gry, tr greenish silty gritty

shl gry drk gry silty gritty bedded platey

CFS 4722'
DST #1
4570'-4722'
30"-60"-60"-120"
SB, GTS, TSTM
Rec: 4311' GIP
261' GCM 10%G
IHP 2333
IFP 66-85
ISIP 1147
FFP 91-137
FSIP 1158
FHP 2289
BHT 121 deg

Mud-Co. 4725'
wt. 8.8 vis. 64
wl. 9.6 chl. 8,000
lcm. 3# bbl

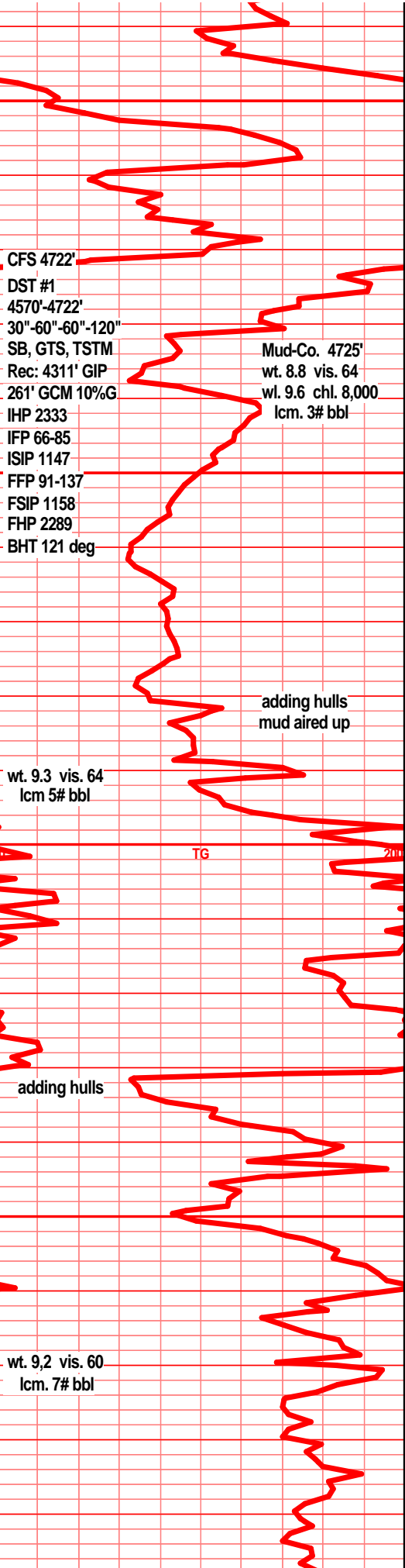
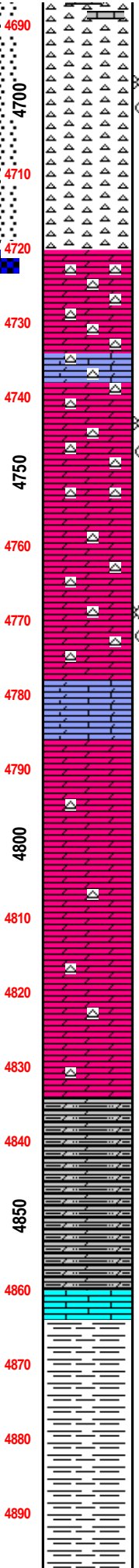
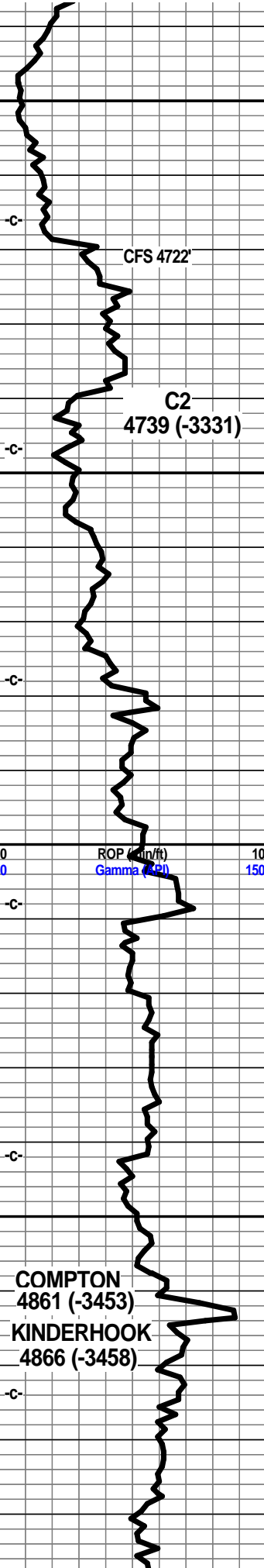
adding hulls
mud aired up

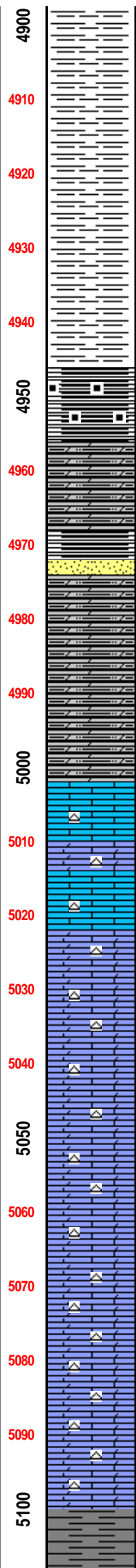
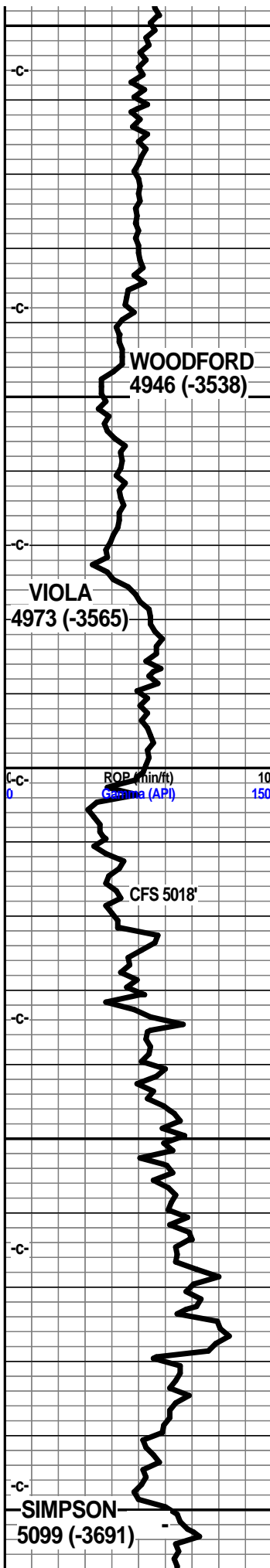
wt. 9.3 vis. 64
lcm 5# bbl

TG

adding hulls

wt. 9,2 vis. 60
lcm. 7# bbl





shl gry drk gry greenish silty gritty

shl mde gry gry brn blk silty gritty

Samples very poor at this point, mud is heavy combined with a very poorly designed sample box. Box is to wide, to short and to shallow.

shl dolo shls drk gry blk, blk w/reddish tint blkly ang hrd pcs, abun gas bubs cupric, pyritic

silty dolo, brn blk, red brn tint, fnly silty, gritty, tr gas bubs

silty shly dolo, drk brn/blk, reddish tint, fnly silty gritty, tr w/carb text, abun gas bubs.

sst wht tan tr clr clstrs, f grnd, sub ang grns, fair to well sorted, mstly vry well cem, silic cem, sub fria to dns hrd qrtzitic text, abun min fill, pyritic, clay clasts, tr gas bubs, sli film on brk, nodor, NSFO

dolo silty dolo, lt gry, gry, tr med gry, f xln silty gritty gran, tr soft, gas bubs

dolo silty dolo, gry med gry, f xln, gritty gran soft, tr mushy, gas bubs

lst wht off wht lt crm, wht gry mott, f sli med xln, blkly ang, tr sub chiky, foss frags, crs calc xln text, inter xln por, chrt wht shrp frsh opa, sub opa, foss, tr gas bubs, filmy SFO on break (rare) nodor

lst wht off wht, wht gry mott f sli med xln, gran blkly tr sub chiky, foss frags, crs calc xstls, pyritic, crs foss in prt, chrt wht shrp frsh opa

lst aa, incr lst/dolo, tan off wht crm drk tan f xln blkly ang dns hrd, gran, vry sli sucr text, chrt tan gry shrp frsh opa, dolo tan lt brn f sli med xln gran sndy gritty text, tr foss, sub chiky gran text

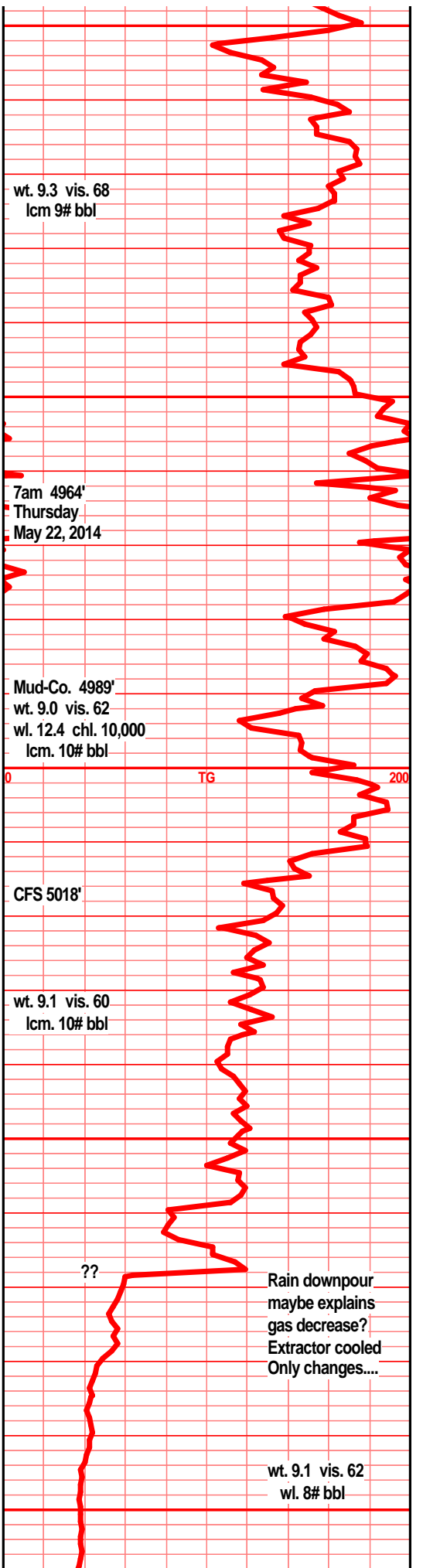
lst/dolo dull tan f vf xln gran sndy gritty sub sucr text, hrd blkly ang pcs, chrt dull tan brn shrp frsh sub opa, tr lst crm wht off wht mott f med xln blkly ang dns tr sub chiky, lrg calc xstl inclu, pyritic

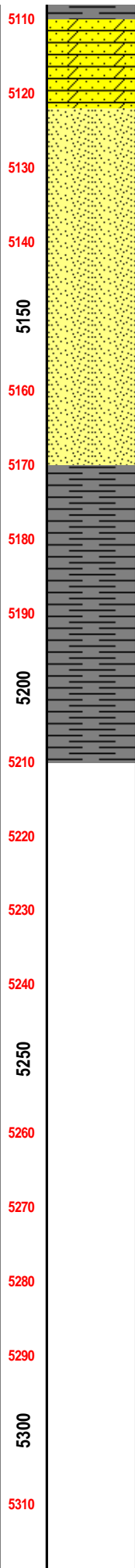
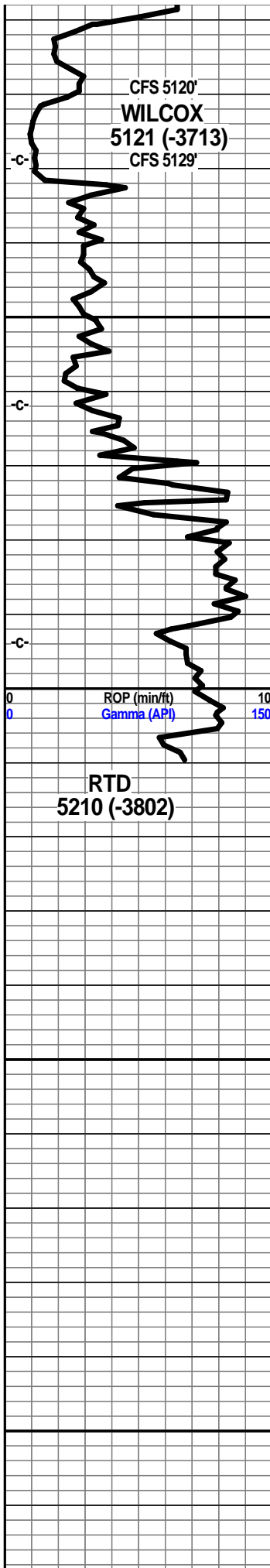
lst/dolo tan, tan lt brn f vf xln gran blkly dna hrd, tr sub chiky, sli sucr text, chrt, chrt dull tan brn shrp frsh sub opa

lst/dolo tan drk tan brn f vf xln dns hrd blkly ang sli gran chiky, sli sub sucr text, chrt, chrt dull tan brn shrp frsh sub opa

lst/dolo tan drk crm brn f vf xln dns hrd blkly ang sli chiky gran sub sucr pcs, foss frags, chrt, chrt dull drk tan brn shrp frsh sub opa

shl gry green drk gry green silty slick, wih snd grn inclu





sst/sndy dolo, sst clstrs, gry off wht tr green tint, f grnd, sub ang tr sub rded grns, prly srtd, w/cem, blkly ang dns hrd clstrs, pyritic, gry green clay fill

sst clr wht clstrs, f grnd, sub ang/sub rded grns, fair to well srtd, sub fria and tite, poorly cem, silic cem, gd inter grn por,

sst wht off wht clr tr lt tan clstrs, f grnd, sub ang/sub rded grns, well srtd, sub fria and tite, poorly cem, silic cem, dolo text in some, tr clay min fill, tr dead gilsonitic flky stain, tr filmy RBSO on spl water

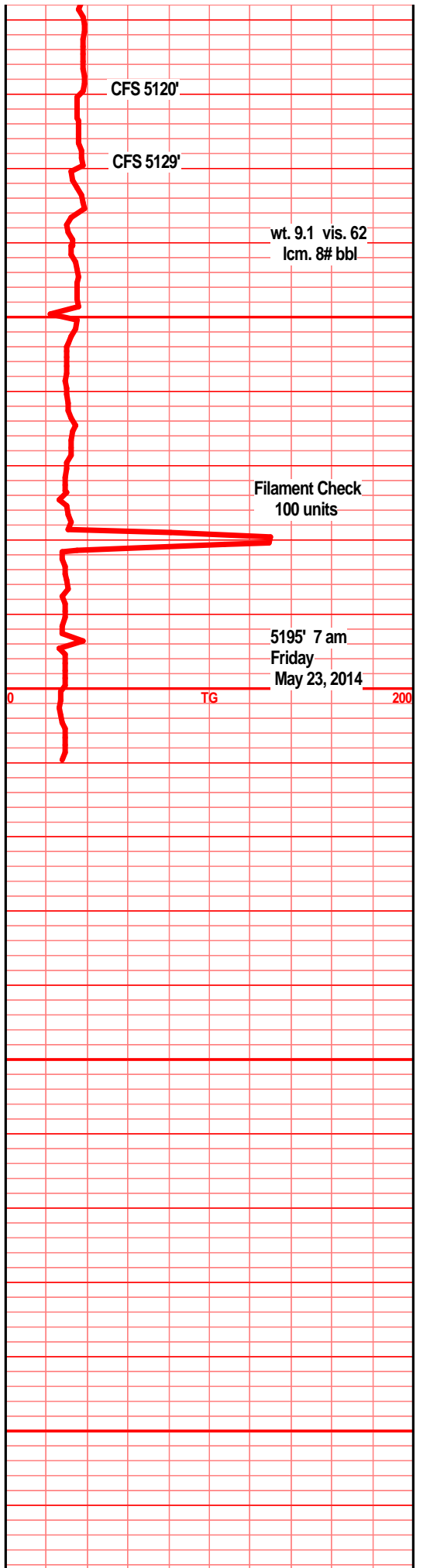
sst lt tan crm off wht clstrs, f grnd, sub ang/sub rded grns, well srtd, soft fria to tite sub fria, silic cem, drker tan dolo text in some, dead flky gilsonitic stain, tr clay min fill

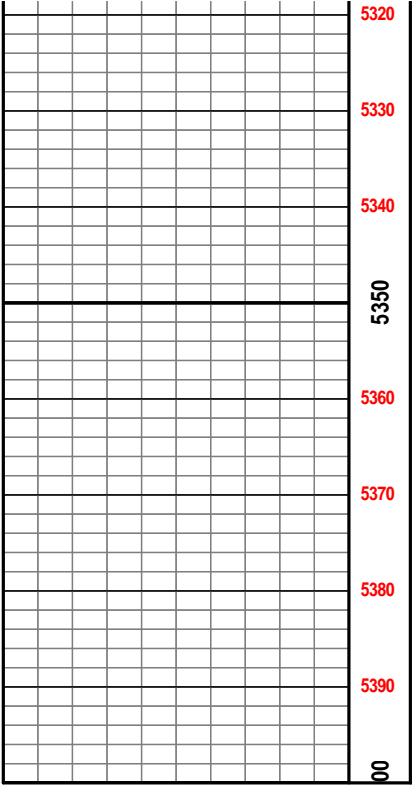
sst off wht tan clstrs, f grnd sub ang/sub fred grains, w to fairly well sorted, soft to mostly fria, gd inter grn por, dead flky gilsonitic stain, tr clay mineral fill

shl drk gry green drk teal green, silty, snd grn inclu, pyritic bands,

shl gry drk gry green, deep teal green, silty, tiny snd grn inclu, pyritic bands

shl gry drk gry, gry green, silty gritty, slick, hrd, snd grn inclu, pyritic bands.





Woolsey Operating Co.
Ricke A #1
1980' FNL & 330' FWL
W 1/2 SW NW
Sec. 13 -Twp 34S - Rge 11
Mayberry North Field
Barber County, Kansas
API # 15-007-24171-0000
GL 1396' KB 1408'

