



KANSAS CORPORATION COMMISSION 1110816
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1110816

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

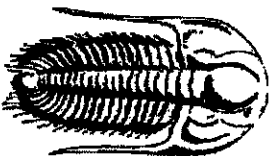
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **R & B Oil & Gas**

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Colborn A-1

23-33s-12w Barber,KS

Start Date: 2012.09.29 @ 18:17:37

End Date: 2012.09.30 @ 01:04:07

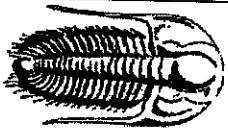
Job Ticket #: 49680 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.03 @ 10:36:56



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

R & B Oil & Gas
PO Box 195
Attica, KS 67009
ATTN: Tim Pierce

23-33s-12w Barber, KS

Colborn A-1

Job Ticket: 49680

DST#: 1

Test Start: 2012.09.29 @ 18:17:37

GENERAL INFORMATION:

Formation: **Swope & Hertha**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 20:00:22
Time Test Ended: 01:04:07
Interval: **4337.00 ft (KB) To 4434.00 ft (KB) (TVD)**
Total Depth: **4434.00 ft (KB) (TVD)**
Hole Diameter: **7.88** Inches Hole Condition: **Good**

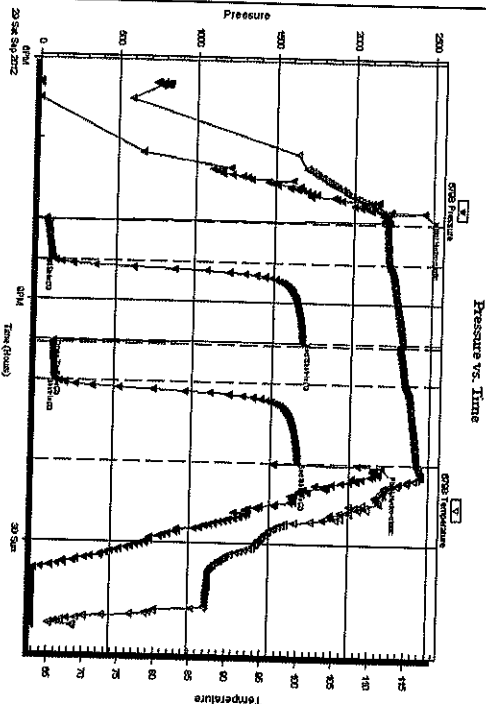
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Leal Cason**
Unit No: **45**
Reference Elevations: **1498.00 ft (KB)**
1488.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 Inside
Press@RunDepth: **126.19 psig @ 4338.00 ft (KB)**
Start Date: **2012.09.29** End Date:
Start Time: **18:17:38** End Time:

Capacity: **8000.00 psig**
Last Callb.: **2012.09.30**
Time On Btm: **2012.09.29 @ 19:52:22**
Time Off Btm: **2012.09.29 @ 23:02:22**

TEST COMMENT: FF: Weak Blow, 3/4 inch

SI: No Blow Back
FF: Weak Surface Blow
FSI: No Blow Back



PRESSURE SUMMARY

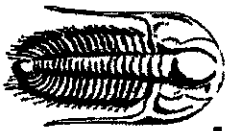
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2448.65	110.98	Initial Hydro-static
8	54.24	111.30	Open To Flow (1)
39	100.31	112.09	Shut-In(1)
98	1689.97	114.25	End Shut-In(1)
100	111.48	113.80	Open To Flow (2)
128	126.19	114.64	Shut-In(2)
188	1671.56	116.45	End Shut-In(2)
190	2205.04	116.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
60.00	MCM 30%M 70%AW	0.30
65.00	WCM 40%AW 60%M	0.37

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

R & B Oil & Gas

23-33s-12w Barber, KS

PO Box 195
Attica, KS 67009

Colborn A-1

Job Ticket: 49680

DST#: 1

ATTN: Tim Perce

Test Start: 2012.09.29 @ 18:17:37

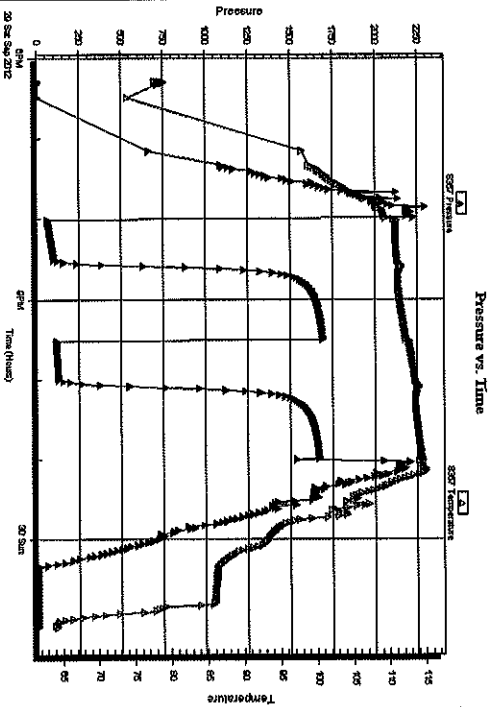
GENERAL INFORMATION:

Formation: **Swope & Hertha**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:00:22
 Time Test Ended: 01:04:07
 Interval: **4337.00 ft (KB) To 4434.00 ft (KB) (TVD)**
 Total Depth: **4434.00 ft (KB) (TVD)**
 Hole Diameter: **7.88** Inches-Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: **1498.00 ft (KB)**
1488.00 ft (CF)
10.00 ft
 KB to GR/CF:

Serial #: 8367 Outside
 Press@RunDepth: psig @ 4338.00 ft (KB)
 Start Date: 2012.09.29 End Date: 2012.09.30
 Start Time: 18:17:38 End Time: 01:05:52
 Capacity: 8000.00 psig
 Last Calib.: 2012.09.30
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak Blow, 3/4 inch
 IS: No Blow Back
 FF: Weak Surface Blow
 FSI: No Blow Back



PRESSURE SUMMARY

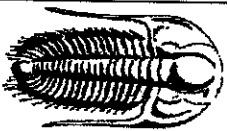
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 30%M 70%W	0.30
65.00	WCM 40%W 60%M	0.37

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (M/cfd)



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas
PO Box 195
Attica, KS 67009

23-33s-12w Barber, KS

Colborn A-1

Job Ticket: 49680

DST#: 1

ATTN: Tim Pierce

Test Start: 2012.09.29 @ 18:17:37

Tool Information

Drill Pipe:	Length: 4209.00 ft	Diameter: 3.80 Inches	Volume: 59.04 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: 119.00 ft	Diameter: 2.25 Inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
		<u>Total Volume:</u>	59.63 bbl	Tool Chased ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4337.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	97.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4322.00	
Hydraulic tool	5.00			4327.00	
Packer	5.00			4332.00	20.00
Packer	5.00			4337.00	Bottom Of Top Packer
Stubb	1.00			4338.00	
Recorder	0.00	6798	Inside	4338.00	
Recorder	0.00	8367	Outside	4338.00	
Perforations	8.00			4346.00	
Change Over Sub	1.00			4347.00	
Drill Pipe	63.00			4410.00	
Change Over Sub	1.00			4411.00	
Perforations	20.00			4431.00	
Bullnose	3.00			4434.00	97.00
					Bottom Packers & Anchor
Total Tool Length:	117.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

R & B Oil & Gas
PO Box 195
Attica, KS 67009
ATTN: Tim Ferce

23-33s-12w Barber, KS
Colborn A-1
Job Ticket: 49680
DST#: 1
Test Start: 2012.09.29 @ 18:17:37

Mud and Cushion Information

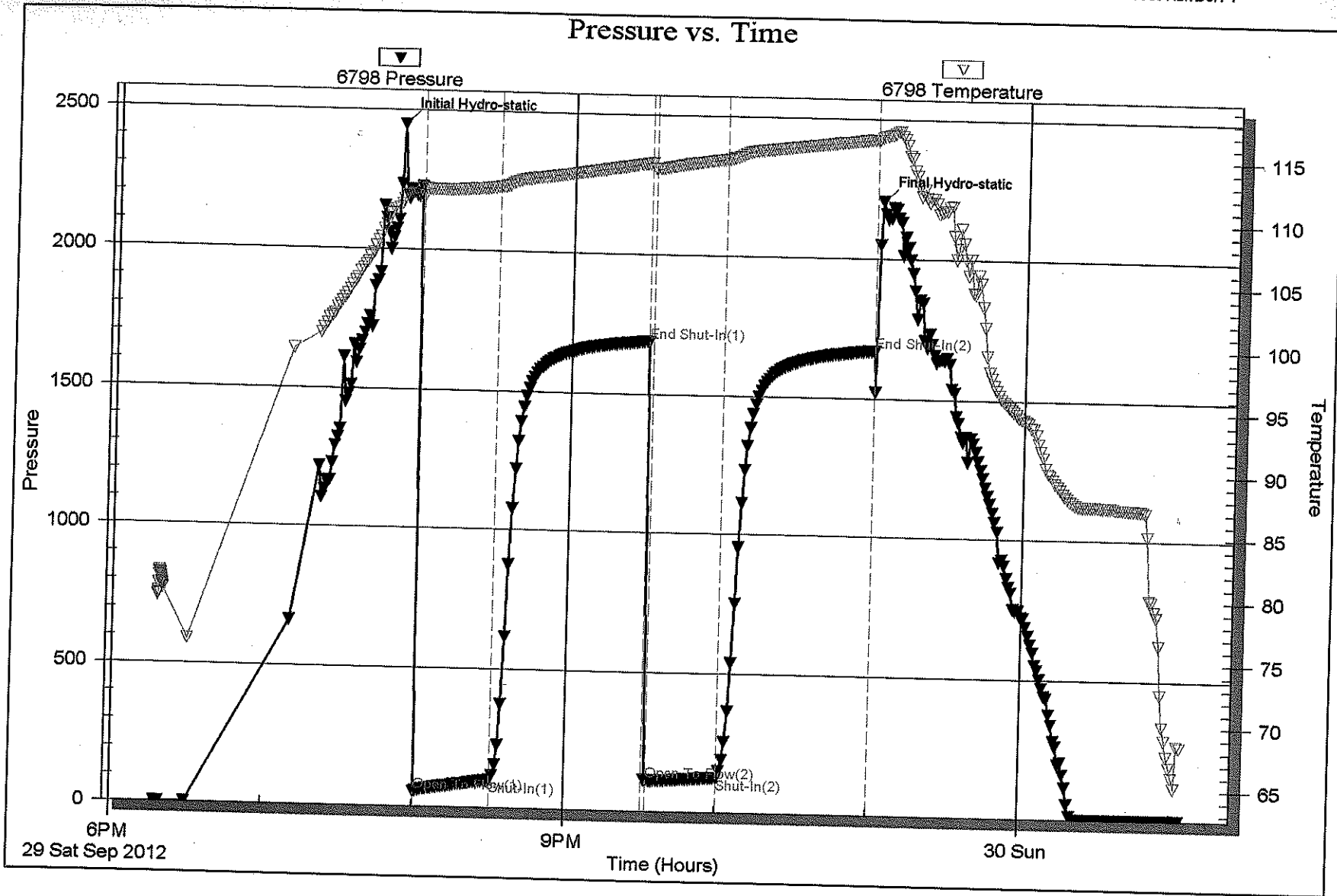
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	126000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume:		bbl
Water Loss: 8.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		psig
Salinity: 4500.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCM 30%M 70%W	0.295
65.00	WCM 40%W 60%M	0.374

Total Length: 125.00 ft Total Volume: 0.669 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .065 @ 72 degrees

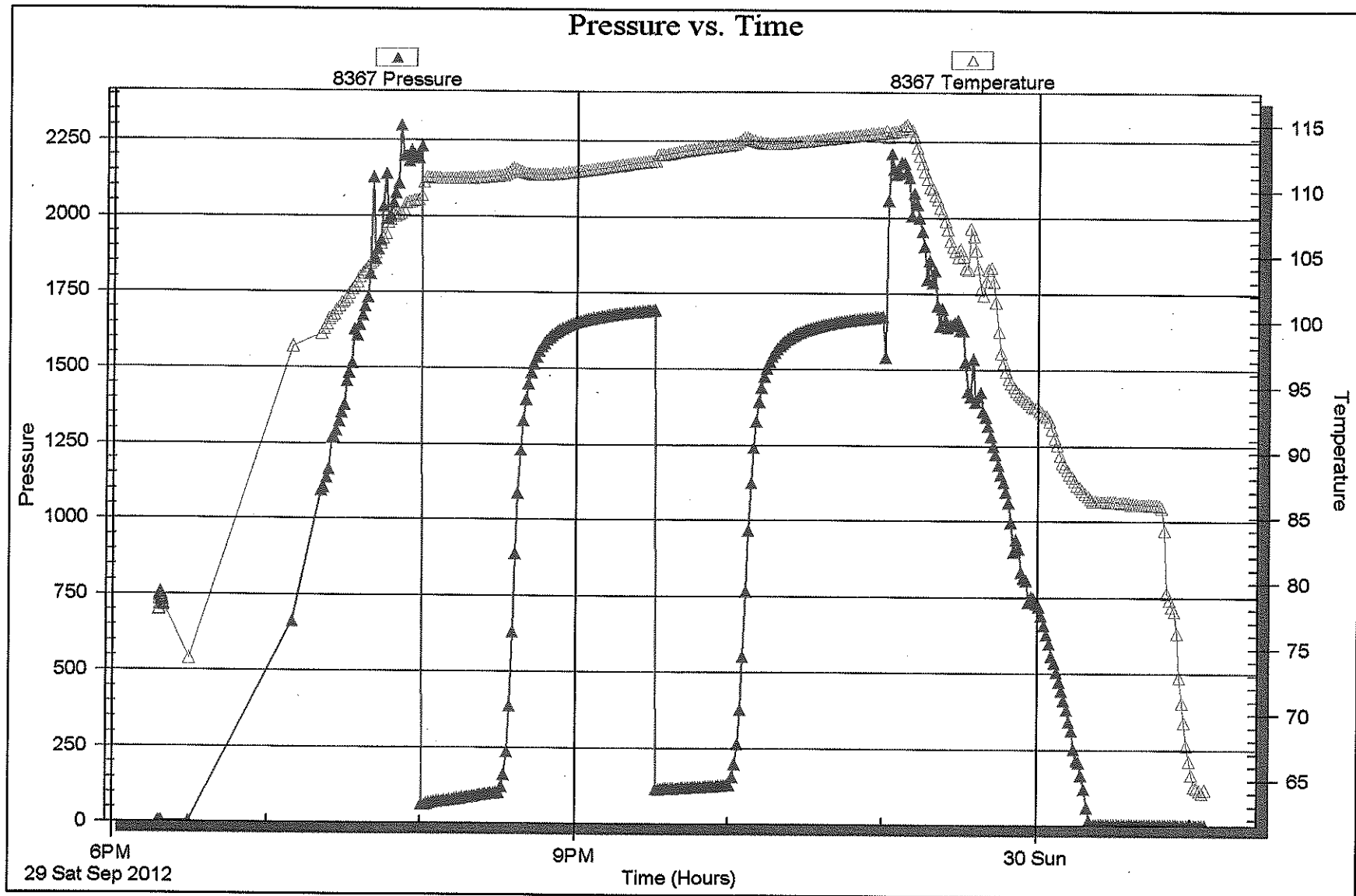


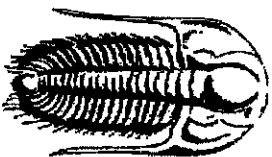
Serial #: 8367

Outside R & B Oil & Gas

Colborn A-1

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **R & B Oil & Gas**

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Colborn A-1

23-33s-12w Barber,KS

Start Date: 2012.09.30 @ 10:43:51

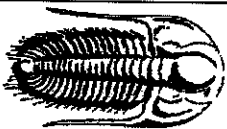
End Date: 2012.09.30 @ 20:27:21

Job Ticket #: 49681 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

R & B Oil & Gas

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

23-33s-12w Barber, KS

Colborn A-1

Job Ticket: 49681

DST#: 2

Test Start: 2012.09.30 @ 10:43:51

GENERAL INFORMATION:

Formation: Mississippi
Deviated: No
Whipstock: No
Time Tool Opened: 12:42:06
Time Test Ended: 20:27:21

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 4520.00 ft (KB) To 4610.00 ft (KB) (TVD)
Total Depth: 4610.00 ft (KB) (TVD)
Hole Diameter: 7.88 incheshole Condition: Good

Reference Elevations: 1498.00 ft (KB)

1488.00 ft (CF)

KB to GRCF: 10.00 ft

Serial #: 6798

Inside

Press@RunDepth: 429.33 psig @ 4521.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.30

2012.09.30

Last Callb.: 2012.09.30

Start Time: 10:43:52

End Date: 20:27:21

Time On Btm: 2012.09.30 @ 12:32:06

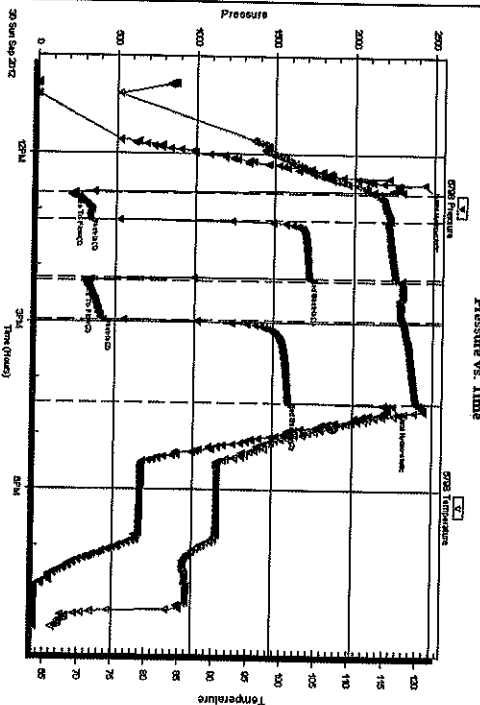
Time Off Btm: 2012.09.30 @ 16:28:36

TEST COMMENT: IF: Strong Blow, BOB in 15 seconds, GTS in 7 minutes, Gauged Gas

ISI: No Blow Back

FF: Strong Blow, BOB & GTS immediate, Gauged Gas

FSI: 1 1/2 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2443.38	109.35	Initial Hydro-static
10	240.57	113.90	Open To Flow (1)
39	338.08	115.73	Shut-In(1)
101	1720.30	116.57	End Shut-In(1)
104	299.76	117.43	Open To Flow (2)
146	429.33	117.66	Shut-In(2)
235	1594.89	119.70	End Shut-In(2)
237	2250.57	120.32	Final Hydro-static

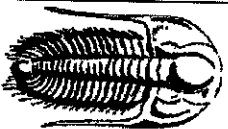
Recovery

Length (ft)	Description	Volume (bbl)
0.00	3248 GIP	0.00
1240.00	Gsy Oil 10%G 90%O	16.31
20.00	OCM 20%O 80%M	0.28

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	46.00	95.82
Last Gas Rate	0.50	20.00	232.05
Max. Gas Rate	0.25	92.00	168.79



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

R & B Oil & Gas

23-33s-12w Barber, KS

PO Box 195
Attica, KS 67009

Colborn A-1

Job Ticket: 49681

DST#: 2

ATTN: Tim Perce

Test Start: 2012.09.30 @ 10:43:51

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 12:42:06
Time Test Ended: 20:27:21

Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Leal Cason**
Unit No: **45**

Interval: **4520.00 ft (KB) To 4610.00 ft (KB) (TVD)**
Total Depth: **4610.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

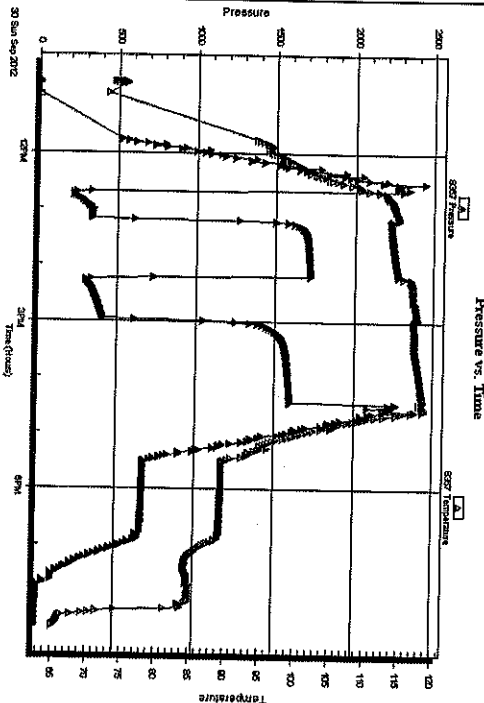
Reference Elevations: **1498.00 ft (KB)**
1488.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8367 **Outside**
Press@RunDepth: **psig @ 4521.00 ft (KB)**
Start Date: **2012.09.30** End Date: **2012.09.30**
Start Time: **10:43:52** End Time: **20:27:06**

Capacity: **8000.00 psig**
Last Callb.: **2012.09.30**
Time On Blm: **Time Off Blm:**

TEST COMMENT: IF: Strong Blow , BOB in 15 seconds, GTS in 7 minutes, Gauged Gas

ISI: No Blow Back
FF: Strong Blow, BOB & GTS Immediate, Gauged Gas
FSI: 1 1/2 Inch Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3248 GP	0.00
1240.00	Gsy Oil 10% G 90% O	16.31
20.00	OCM 20% O 80% M	0.28

Gas Rates

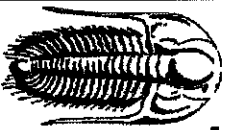
Choke (Inches)	Pressure (psig)	Gas Rate (M/d)
0.25	46.00	95.82
0.50	20.00	232.05
0.25	92.00	168.79

* Recovery from multiple tests

TriLOBITE Testing, Inc

Ref. No: 49681

Printed: 2012.10.03 @ 10:36:00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas

23-33s-12w Barber,KS

PO Box 195

Colborn A-1

Atlica, KS 67009

Job Ticket: 49681

DST#:2

ATTN: Tim Pierce

Test Start: 2012.09.30 @ 10:43:51

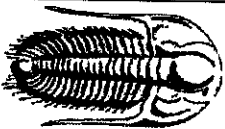
Tool Information

Drill Pipe:	Length: 4398.00 ft	Diameter: 3.80 inches	Volume: 61.69 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 62.28 bbl	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4520.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4505.00	
Hydraulic tool	5.00			4510.00	
Packer	5.00			4515.00	20.00
Packer	5.00			4520.00	Bottom Of Top Packer
Stub	1.00			4521.00	
Recorder	0.00	6798	Inside	4521.00	
Recorder	0.00	8367	Outside	4521.00	
Perforations	2.00			4523.00	
Change Over Sub	1.00			4524.00	
Drill Pipe	62.00			4586.00	
Change Over Sub	1.00			4587.00	
Perforations	20.00			4607.00	
Bullnose	3.00			4610.00	90.00
					Bottom Packers & Anchor
Total Tool Length:	110.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

R & B Oil & Gas
PO Box 195
Attica, KS 67009
ATTN: Tim Pierce

23-33s-12w Barber, KS
Colborn A-1
Job Ticket: 49681
DST#: 2
Test Start: 2012.09.30 @ 10:43:51

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	16.8 deg AP
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume:	Gas Cushion Pressure:	psig
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m			
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3248 GIP	0.000
1240.00	Gas Oil 10%G 90%O	16.310
20.00	OCM 20%O 80%M	0.281

Total Length: 1260.00 ft Total Volume: 16.591 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gravity Was 19.2 @ 84 degrees



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

R & B Oil & Gas

23-33s-12w Barber,KS

PO Box 195

Colborn A-1

Attica, KS 67009

Job Ticket: 49681

DST#: 2

ATTN: Tim Perce

Test Start: 2012.09.30 @ 10:43:51

Gas Rates Information

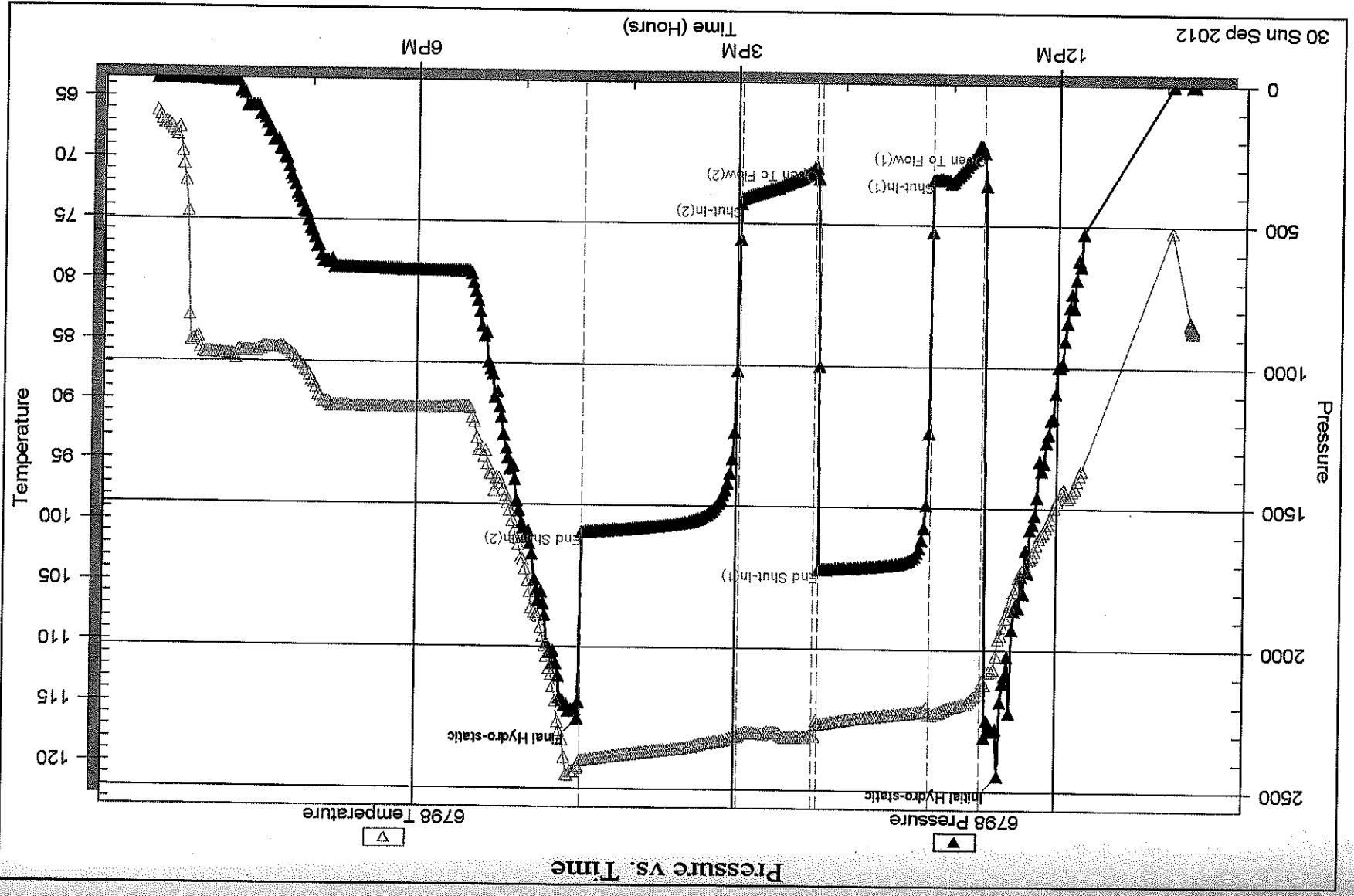
Temperature: 59 (deg F)

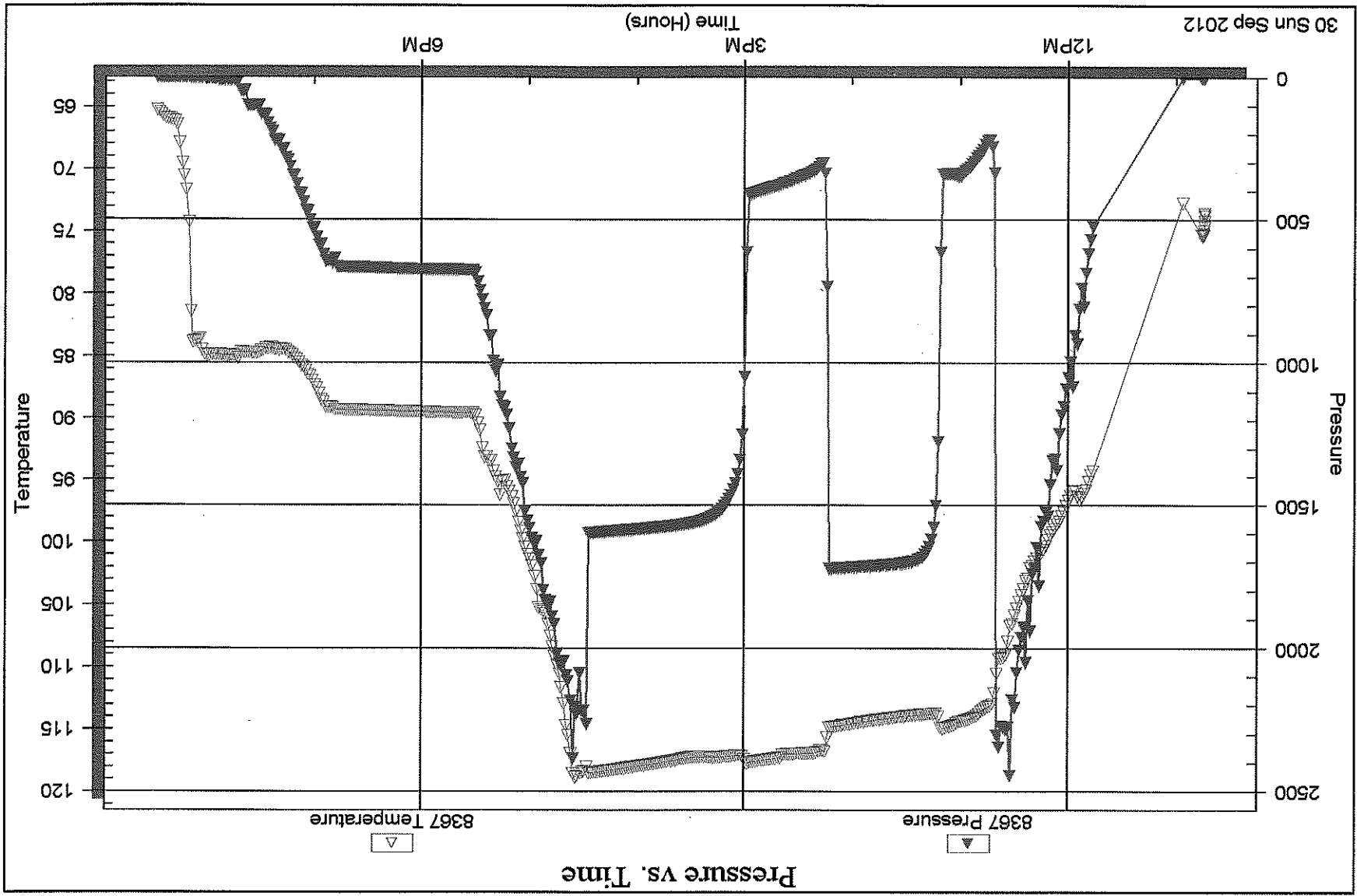
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.25	46.00	95.82
1	20	0.25	92.00	168.79
1	30	0.50	50.00	434.42
2	10	0.50	41.00	373.71
2	20	0.50	41.00	373.71
2	30	0.50	31.00	306.25
2	40	0.50	23.00	252.29
2	45	0.50	20.00	232.05





Serial #: 8367 Outside R & B Oil & Gas Colborn A-1 DST Test Number: 2

Pressure vs. Time



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **R & B Oil & Gas**

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Colborn A-1

23-33s-12w Barber,KS

Start Date: 2012.10.01 @ 18:24:13

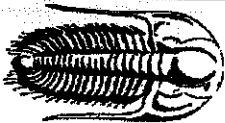
End Date: 2012.10.02 @ 02:16:43

Job Ticket #: 49682 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

R & B Oil & Gas
PO Box 195
Attica, KS 67009
ATTN: Tim Pierce

23-33s-12w Barber, KS
Colborn A-1
Job Ticket: 49682
DST#: 3
Test Start: 2012.10.01 @ 18:24:13

GENERAL INFORMATION:

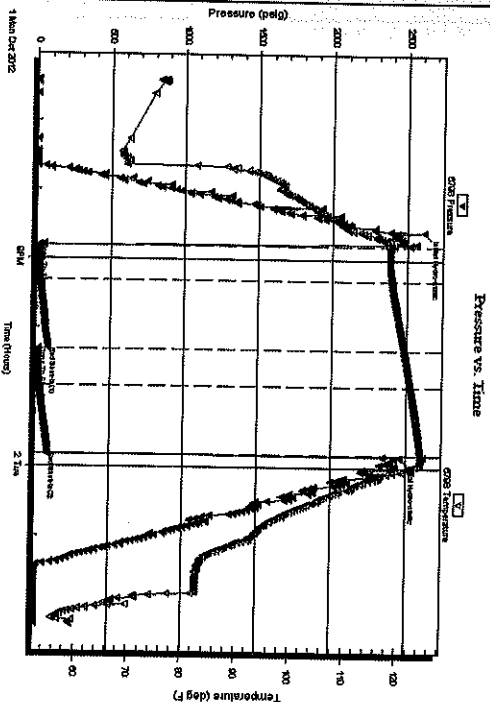
Formation: Viola
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:48:13
Time Test Ended: 02:16:43
Interval: 4929.00 ft (KB) To 4940.00 ft (KB) (TVD)
Total Depth: 4940.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches-Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1498.00 ft (KB)
1488.00 ft (CF)
10.00 ft
KB to GR/CF:

Serial #: 6798 Inside
Press@RunDepth: 20.61 psig @ 4930.00 ft (KB)
Start Date: 2012.10.01 End Date: 2012.10.02
Start Time: 18:24:14 End Time: 02:16:43

Capacity: 8000.00 psig
Last Calib.: 2012.10.02
Time On Btmr: 2012.10.01 @ 20:35:58
Time Off Btmr: 2012.10.01 @ 23:50:43

TEST COMMENT: IF: Weak Surface Blow
ISI: No Blow Back
FF: Weak Blow, 1/2 inch
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2614.34	112.77	Initial Hydro-static
13	15.93	118.63	Open To Flow (1)
43	21.85	118.76	Shut-In(1)
102	84.22	121.14	Open To Flow (1)
103	16.58	121.13	Open To Flow (2)
134	20.61	122.37	Shut-In(2)
194	85.34	124.43	End Shut-In(2)
195	2460.88	124.45	Final Hydro-static

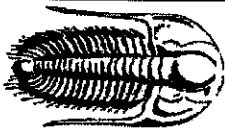
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



TRIBOLITE
TESTING, INC.

DRILL STEM TEST REPORT

R & B Oil & Gas

23-33s-12w Barber, KS

PO Box 195

Colborn A-1

Attica, KS 67009

Job Ticket: 49682

DST#: 3

ATTN: Tim Pierce

Test Start: 2012.10.01 @ 18:24:13

GENERAL INFORMATION:

Formation: Viola
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:48:13
 Time Test Ended: 02:16:43
 Interval: 4929.00 ft (KB) To 4940.00 ft (KB) (TVD)
 Total Depth: 4940.00 ft (KB) (TVD)
 Hole Diameter: 7.88 Inch-Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1498.00 ft (KB)
 1488.00 ft (CF)
 KB to GRVCF: 10.00 ft

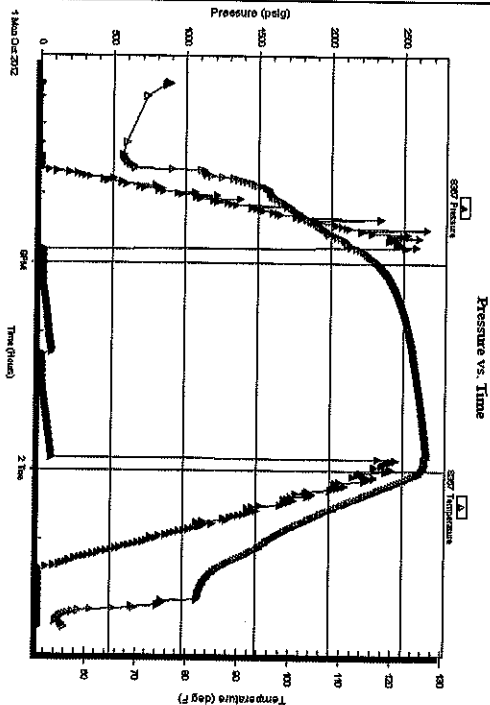
Serial #: 8367 Outside

Press.@RunDepth: psig @ 4930.00 ft (KB)
 Start Date: 2012.10.01 End Date:
 Start Time: 18:24:14 End Time:

Capacity: 8000.00 psig
 Last Calib.: 2012.10.02
 Time On Btm:
 Time Off Btm:

TEST COMMENT: FF: Weak Surface Blow

ISI: No Blow Back
 FF: Weak Blow, 1/2 inch
 FSI: No Blow Back



PRESSURE SUMMARY

Time (Mfn.)	Pressure (psig)	Temp (deg F)	Annotation

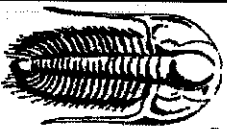
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas
PO Box 195
Attica, KS 67009
ATTN: Tim Pierce

23-33s-12w Barber, KS
Colborn A-1
Job Ticket: 49682
DST#: 3
Test Start: 2012.10.01 @ 18:24:13

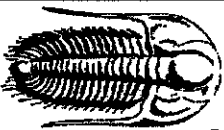
Tool Information

Drill Pipe:	Length: 4802.00 ft	Diameter: 3.80 inches	Volume: 67.36 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 95000.00 lb
		<u>Total Volume:</u>	67.95 bbl	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4929.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description **Length (ft)** **Serial No.** **Position** **Depth (ft)** **Accum. Lengths**

Shut In Tool	5.00			4914.00	
Hydraulic tool	5.00			4919.00	
Packer	5.00			4924.00	20.00
Packer	5.00			4929.00	Bottom Of Top Packer
Stub	1.00			4930.00	
Recorder	0.00	6798	Inside	4930.00	
Recorder	0.00	8367	Outside	4930.00	
Perforations	7.00			4937.00	
Bullnose	3.00			4940.00	11.00
					Bottom Packers & Anchor
Total Tool Length:	31.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

R & B Oil & Gas
PO Box 195
Attila, KS 67009
ATTN: Tim Perce

23-33s-12w Barber, KS
Colborn A-1
Job Ticket: 49682

DST# 3

Test Start: 2012.10.01 @ 18:24:13

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 10.79 in³
Resistivity: ohm.m
Salinity: 7000.00 ppm
Filter Cake: 0.02 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

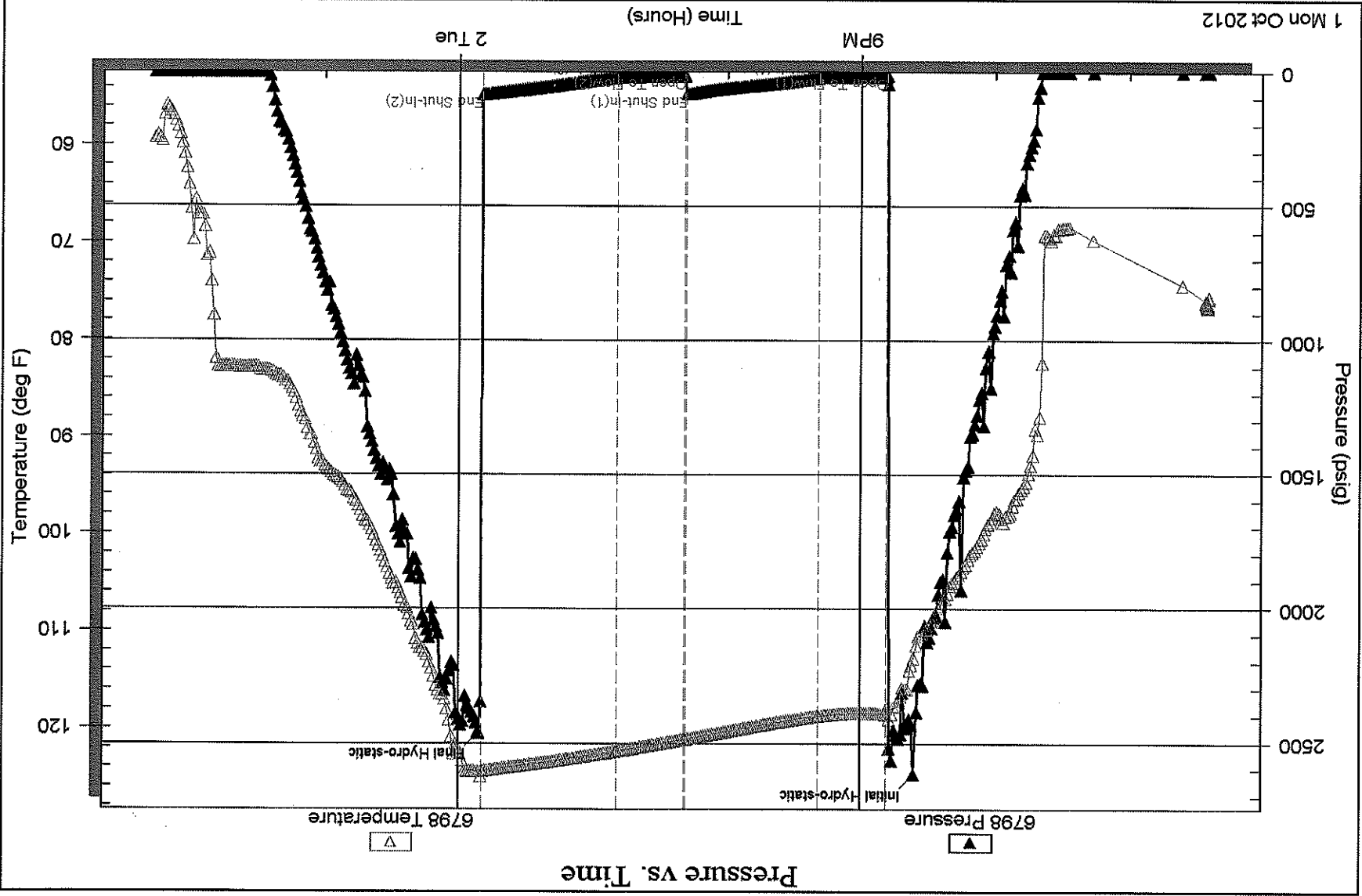
Oil API:
Water Salinity: ppm
deg AR

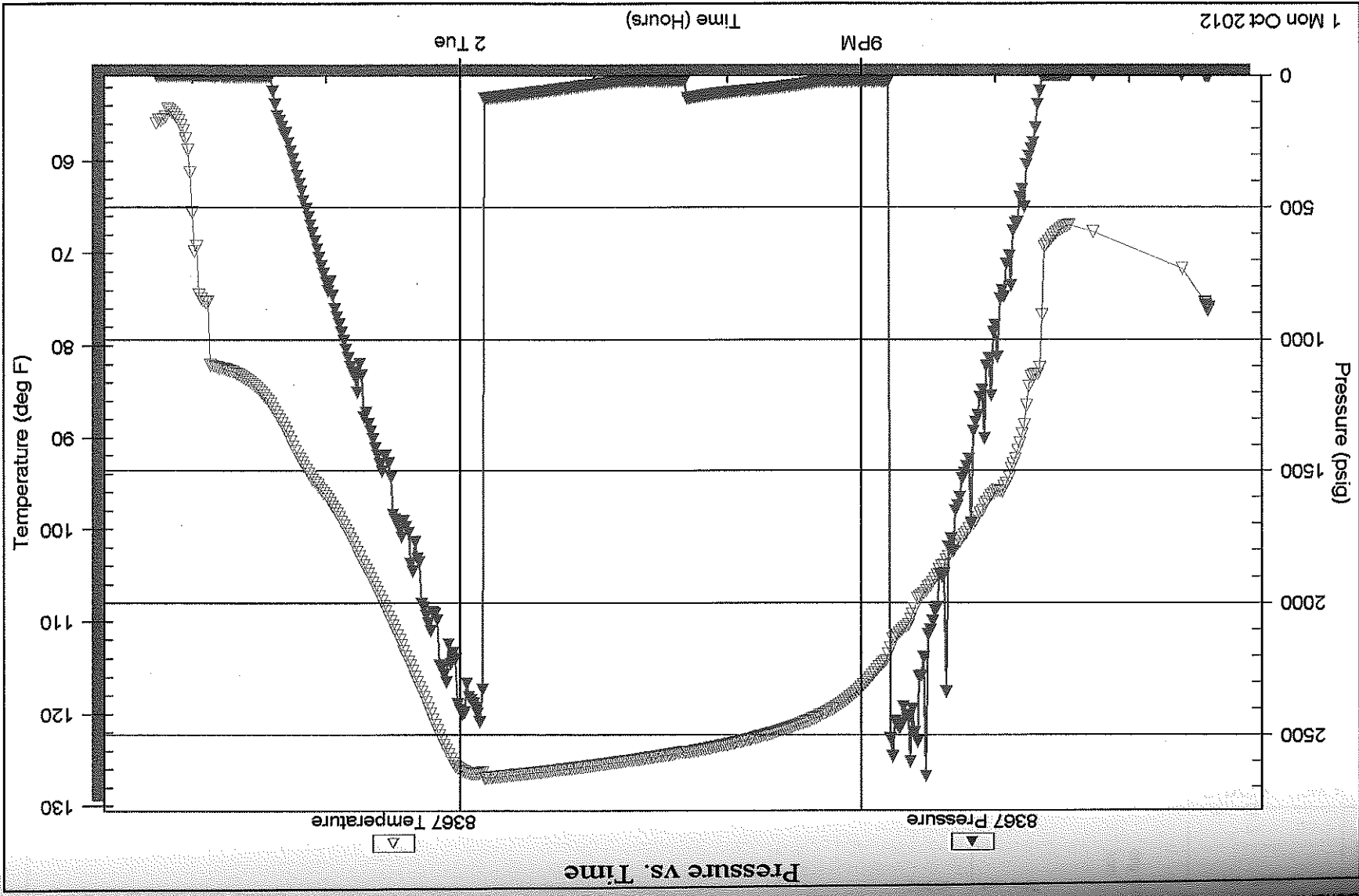
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





ALLIED OIL & GAS SERVICES, LLC 053994

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Medicine Lodge 14

Colborn A 1

DATE <u>9.24.2011</u>	SEC. <u>23</u>	TWP. <u>33S</u>	RANGE <u>12W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00pm</u>	JOB FINISH <u>3:00pm</u>
LEASE <u>Colborn A</u>	WELL # <u>1</u>	LOCATION <u>Hickory street & 281</u>			COUNTY <u>Baker</u>	STATE <u>Ks</u>	
OLD OR NEW? (Circle one) <u>NEW</u>				OWNER <u>Hewitt, South inc</u>			

CONTRACTOR <u>Hgrat #1</u>	OWNER <u>P&B Oil & Gas</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>265'</u>
CASING SIZE <u>8 7/8</u>	DEPTH <u>265'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>20'</u>	
PERFS.	
DISPLACEMENT <u>15% bbls fresh water</u>	

CEMENT AMOUNT ORDERED 2255yr 60140r 39000
2% G.I.

COMMON	<u>A 135</u> sx @ <u>17.90</u>	<u>2416.50</u>
POZMIX	<u>90</u> sx @ <u>9.35</u>	<u>841.50</u>
GEL	<u>4</u> sx @ <u>23.40</u>	<u>93.60</u>
CHLORIDE	<u>8</u> sx @ <u>64.00</u>	<u>512.00</u>
ASC	@	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Don F</u>
# <u>558</u> EYS	HELPER <u>Carl B</u>
BULK TRUCK	
# <u>356</u> ASC	DRIVER <u>Troy L</u> <u>3</u>
BULK TRUCK	
#	DRIVER

HANDLING	<u>243.08</u>	@ <u>2.48</u>	<u>602.83</u>
MILEAGE	<u>10.15/10/</u>	<u>260</u>	<u>263.90</u>
	<u>101.50</u>		<u>TOTAL 4730.33</u>

REMARKS:

Pipe on bottom & break circulation
Done 3 bbls water chgd, mix 2255yr
of cement displace 15% bbl water
shut in, cement in circulation

SERVICE

DEPTH OF JOB	<u>265</u>	
PUMP TRUCK CHARGE	<u>1512.00</u>	
EXTRA FOOTAGE	@	
MILEAGE	<u>10</u>	@ <u>7.70</u> <u>77.00</u>
MANIFOLD	<u>Shoes & UO</u>	@
light vehicle	<u>10</u>	@ <u>4.40</u> <u>44.00</u>

CHARGE TO: P&B Oil & Gas

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1633.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
<u>None</u>	@	
	@	
	@	

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

SIGNATURE X Scott Colborn

TOTAL	
SALES TAX (if Any)	<u>282.04</u>
TOTAL CHARGES	<u>6363.33</u>
DISCOUNT	<u>23% 1463.57</u> IF PAID IN 30 DAYS
	<u>(Net) 4899.76</u>

Thank you!!!

ALLIED OIL & GAS SERVICES, LLC 054049

Federal Tax I.D.# 20-5976804

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge, KS

DATE <u>10-2-12</u>	SEC <u>28</u>	TWR <u>335</u>	RANGE <u>12W</u>	CALLED OUT <u>1:00 pm</u>	ON LOCATION <u>1:30 PM</u>	JOB START <u>3:00 PM</u>	JOB FINISH <u>4:00 PM</u>
LEASE <u>Albora</u>	WELL <u>A-1</u>	LOCATION <u>281 + Hardt well, Shortcut</u>			COUNTY <u>Barber</u>	STATE <u>Kansas</u>	
OLD OR NEW (Circle one)			<u>1 West + south into</u>			<u>1.02</u>	<u>7.3</u>

CONTRACTOR Hardt #1
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 TD _____
 CASING SIZE 5 1/2 x 14" DEPTH 4921'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1100 MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 43-24'
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 120 Bbls 27 KPL

EQUIPMENT

PUMP TRUCK CEMENTER Carrie Baldwin
1360-265 HELPER Ken Gilley / Denny White
 BULK TRUCK 3
1355-280 DRIVER Tony Lewis / Ryan Reeves
 BULK TRUCK 4 DRIVER _____

OWNER: R+B Oil + Gas
 CEMENT
 AMOUNT ORDERED 40 5x 60:40: 406C + 40 SMS
125 5x Class H + 10K salt + 5" Koseal
14 Bbls clapper 500 Bbls ASF

COMMON	"8" 2Hx @	17.90	499.60
POZMIX	1105x @	9.35	149.00
GEL	28x @	23.40	46.80
CHLORIDE	@		
ASC	@		
Sodium 100s	14# @	3.30	46.20
CLASS H	1255x @	21.20	2650.00
Salt	75x @	2.35	184.45
Polysol	1635# @	.98	162.50
CLAMP	14mts @	34.40	481.60
ASF	12 Bbls @	58.70	704.40

HANDLING 189.58 x 248 @ 470.110
 MILEAGE 8.30 x 10 x 21.00 215.80
93. TOTAL 5991.11

REMARKS:

Thank You

SERVICE

DEPTH OF JOB	<u>4921'</u>	
PUMP TRUCK CHARGE		<u>2765.75</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>10 @ 7.70</u>	<u>77.00</u>
MANIFOLD	@	
	<u>10 @ 4.40</u>	<u>44.00</u>

TOTAL \$2886.75

CHARGE TO: R+B Oil + Gas
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>1 Reg Guide shoe</u>	@	<u>280.80</u>
<u>1 AFU insert</u>	@	<u>321.62</u>
<u>10 Reg scratchers</u>	@	<u>88.92</u>
<u>8 Centralizers</u>	@	<u>57.33</u>
<u>1 Rubber Plug</u>	@	<u>85.41</u>

TOTAL \$9048.67

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) 536.82
 TOTAL CHARGES \$10,926.53
 DISCOUNT 2185.31 IF PAID IN 30 DAYS

PRINTED NAME TIM PIERCE
 SIGNATURE Tim Pierce

Net \$8,741.22

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY R & B Oil and Gas, Inc.

LEASE Colborn 'A' #1

FIELD Wildcat

LOCATION 2285' FSL & 1320' FWL

SEC 23 TWP 33S RGE 12W

COUNTY Barber STATE Kansas

CONTRACTOR Hardt Drilling Rig #1

SPUD 9-24-2012 COMP 10-02-2012

RTD 4940 LTD 4941

MUD UP 2960 TYPE MUD Chemical

SAMPLES SAVED FROM 2600 TO RTD

DRILLING TIME KEPT FROM 2600 TO RTD

SAMPLES EXAMINED FROM 2600 TO RTD

GEOLOGICAL SUPERVISION FROM 2475 TO RTD

GEOLOGIST ON WELL Tim Pierce

ELEVATIONS

KB 1498'

DF _____

GL 1488'

Measurements Are All
From Kelly Bushing

CASING

CONDUCTOR _____

SURFACE 8-5/8" at 263'

PRODUCTION 5-1/2" at 4932'

ELECTRICAL SURVEYS

DIL / CN-CD

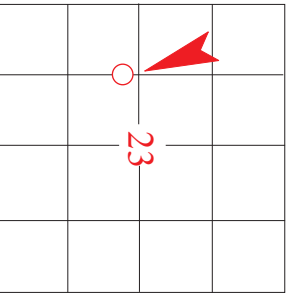
Pioneer Energy Svcs

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Onaga Sh.	2693 (-1195)	2693 (-1195)
Heebner Sh.	3708 (-2210)	3707 (-2209)
Lansing	3885 (-2387)	3884 (-2386)
Stark Sh.	4330 (-2832)	4330 (-2832)
Cherokee Sh.	4538 (-3040)	4544 (-3046)
Mississippi	4580 (-3082)	4580 (-3082)
Viola	NA	4927 (-3429)



API # 15-007-23,945

REMARKS 5-1/2" casing was set to produce the Mississippi.

Shows in the KC Swope and Hertha, and the Viola were evaluated with DST with negative results

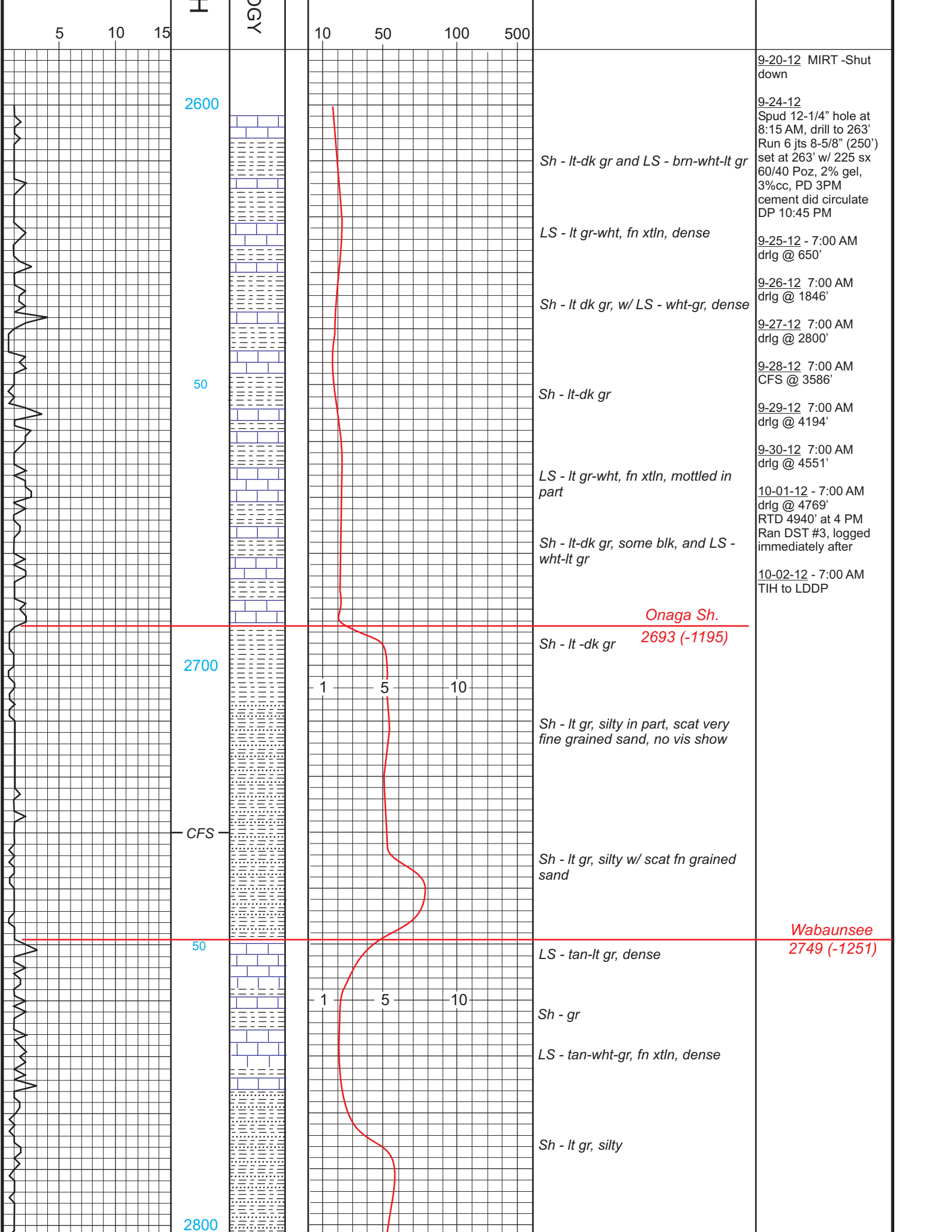
No other zones of interest were indicated by logs or samples

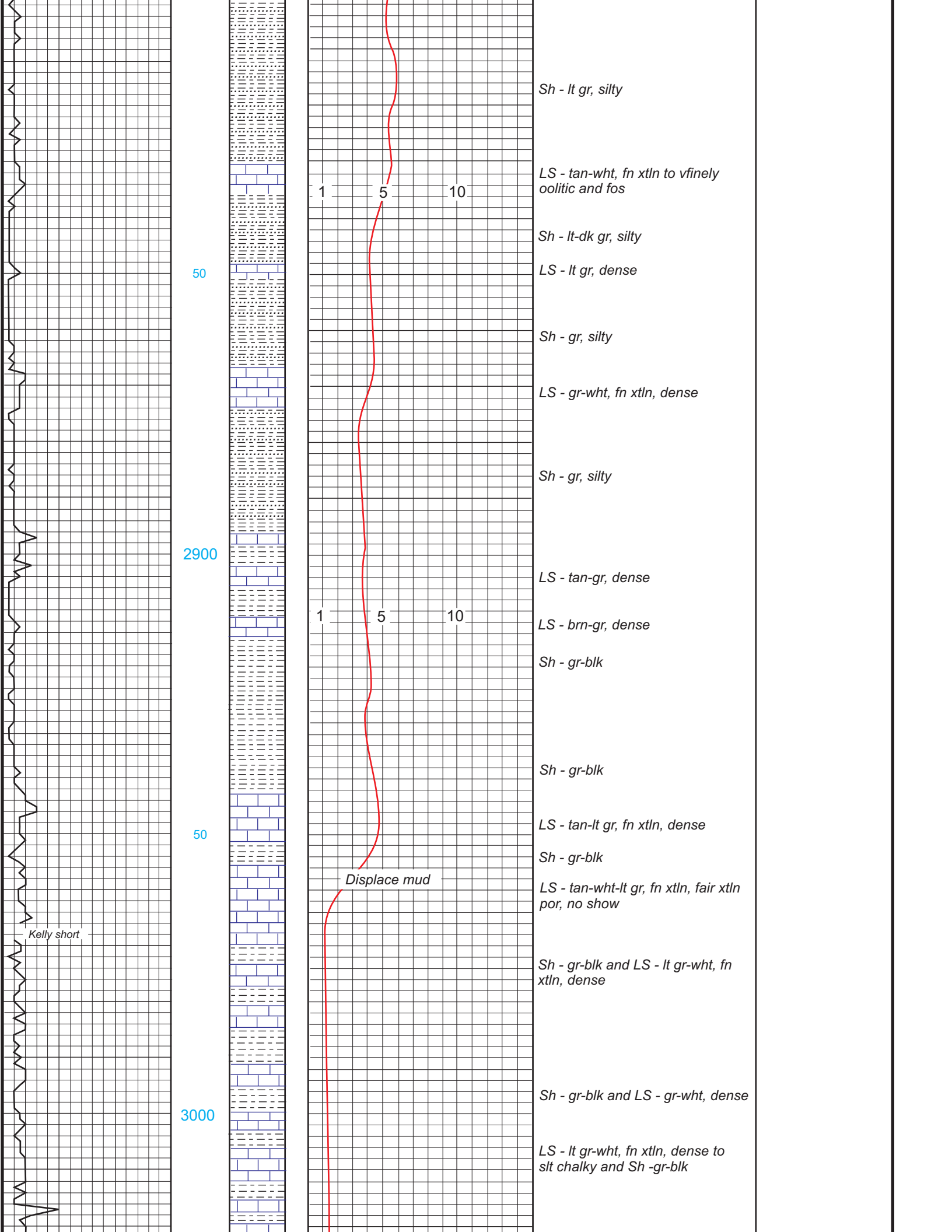
Timothy G. Pierce

LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases →	DEPTH	LITHOLOG	GAS SCALE	SAMPLE DESCRIPTION	REMARKS
--	-------	----------	-----------	--------------------	---------





50

2900

50

3000

1 5 10

1 5 10

Displace mud

Kelly short

Sh - lt gr, silty

LS - tan-wht, fn xtln to vfinely oolitic and fos

Sh - lt-dk gr, silty

LS - lt gr, dense

Sh - gr, silty

LS - gr-wht, fn xtln, dense

Sh - gr, silty

LS - tan-gr, dense

LS - brn-gr, dense

Sh - gr-blk

Sh - gr-blk

LS - tan-lt gr, fn xtln, dense

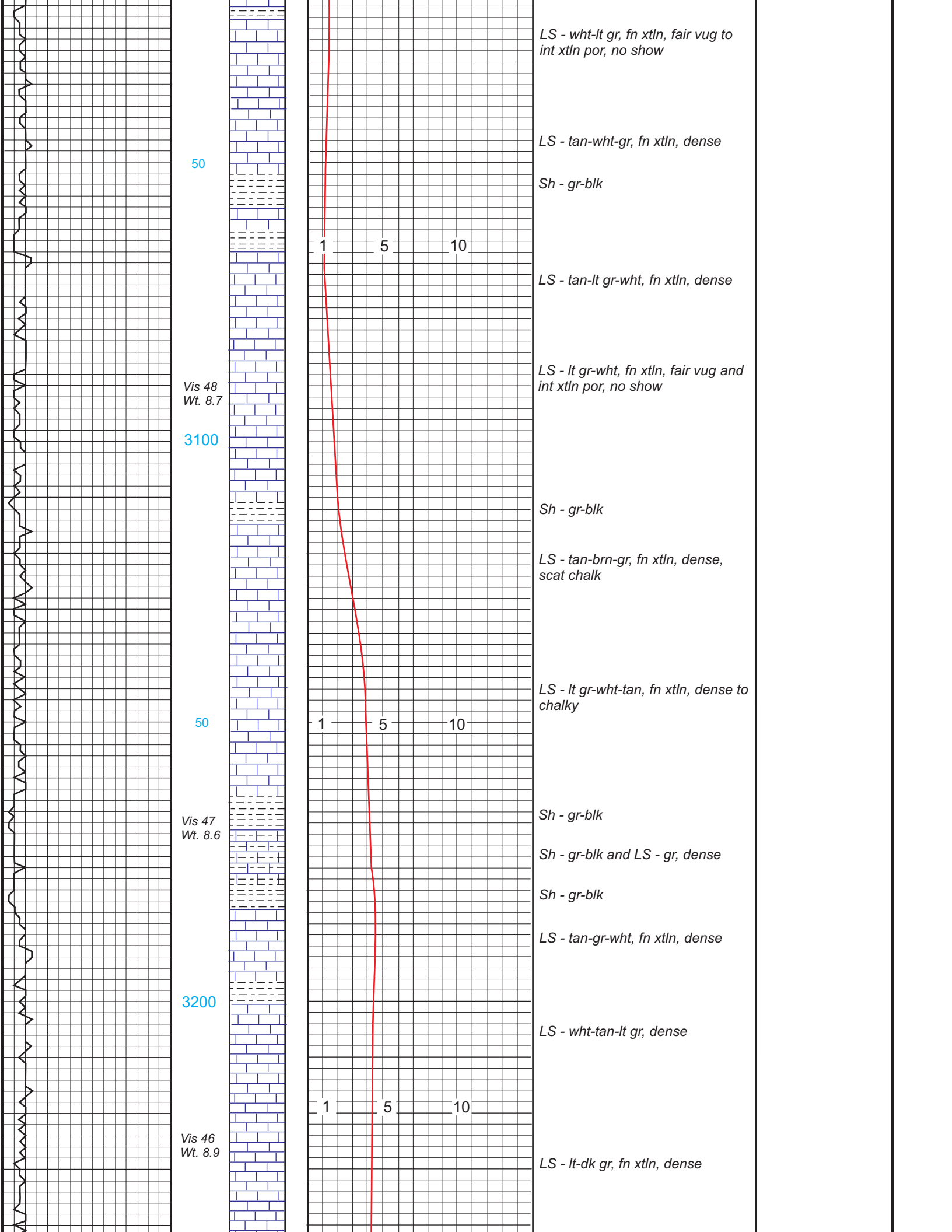
Sh - gr-blk

LS - tan-wht-lt gr, fn xtln, fair xtln por, no show

Sh - gr-blk and LS - lt gr-wht, fn xtln, dense

Sh - gr-blk and LS - gr-wht, dense

LS - lt gr-wht, fn xtln, dense to slt chalky and Sh -gr-blk



LS - wht-lt gr, fn xtln, fair vug to int xtln por, no show

LS - tan-wht-gr, fn xtln, dense

Sh - gr-blk

LS - tan-lt gr-wht, fn xtln, dense

LS - lt gr-wht, fn xtln, fair vug and int xtln por, no show

Sh - gr-blk

LS - tan-brn-gr, fn xtln, dense, scat chalk

LS - lt gr-wht-tan, fn xtln, dense to chalky

Sh - gr-blk

Sh - gr-blk and LS - gr, dense

Sh - gr-blk

LS - tan-gr-wht, fn xtln, dense

LS - wht-tan-lt gr, dense

LS - lt-dk gr, fn xtln, dense

50

Vis 48
Wt. 8.7

3100

50

Vis 47
Wt. 8.6

3200

Vis 46
Wt. 8.9

1

5

10

1

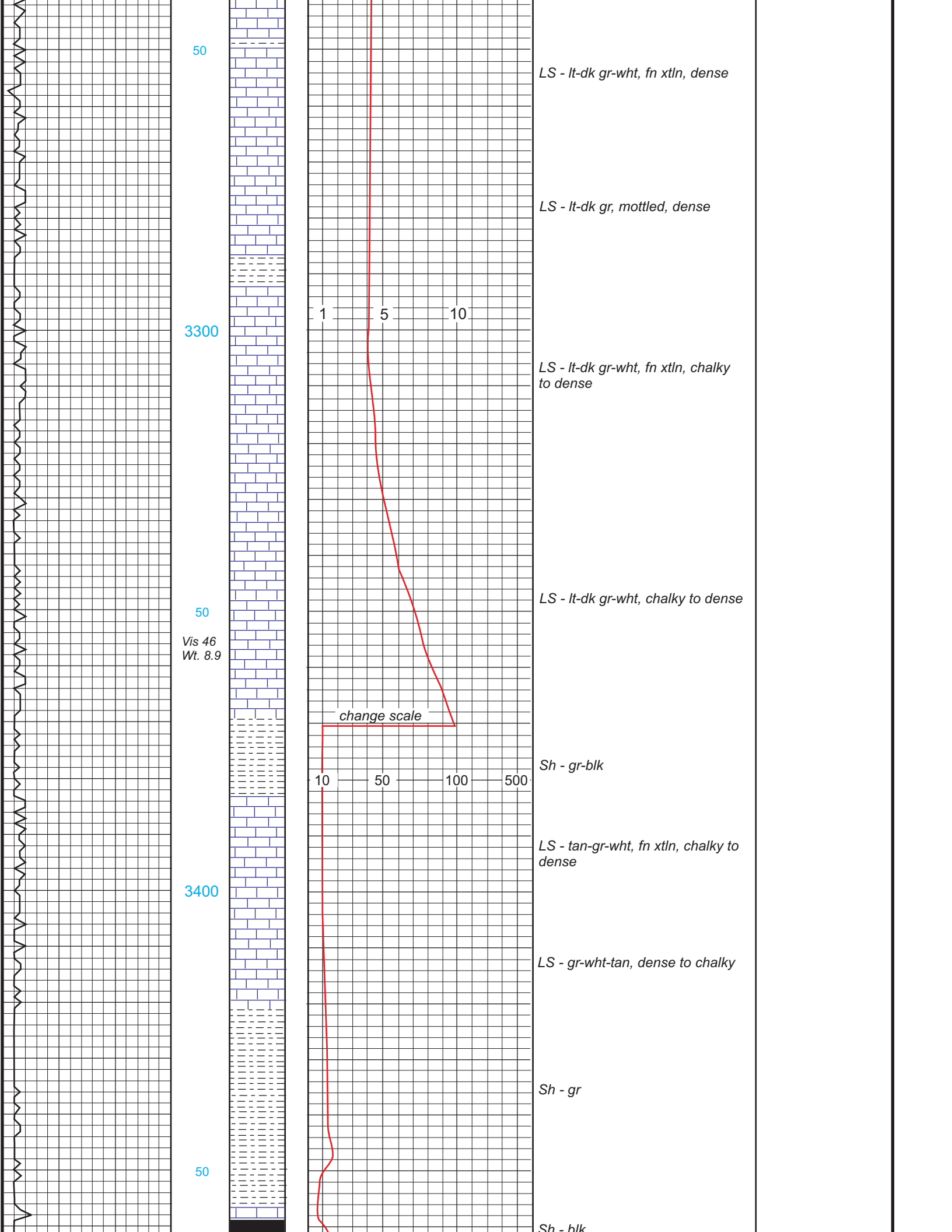
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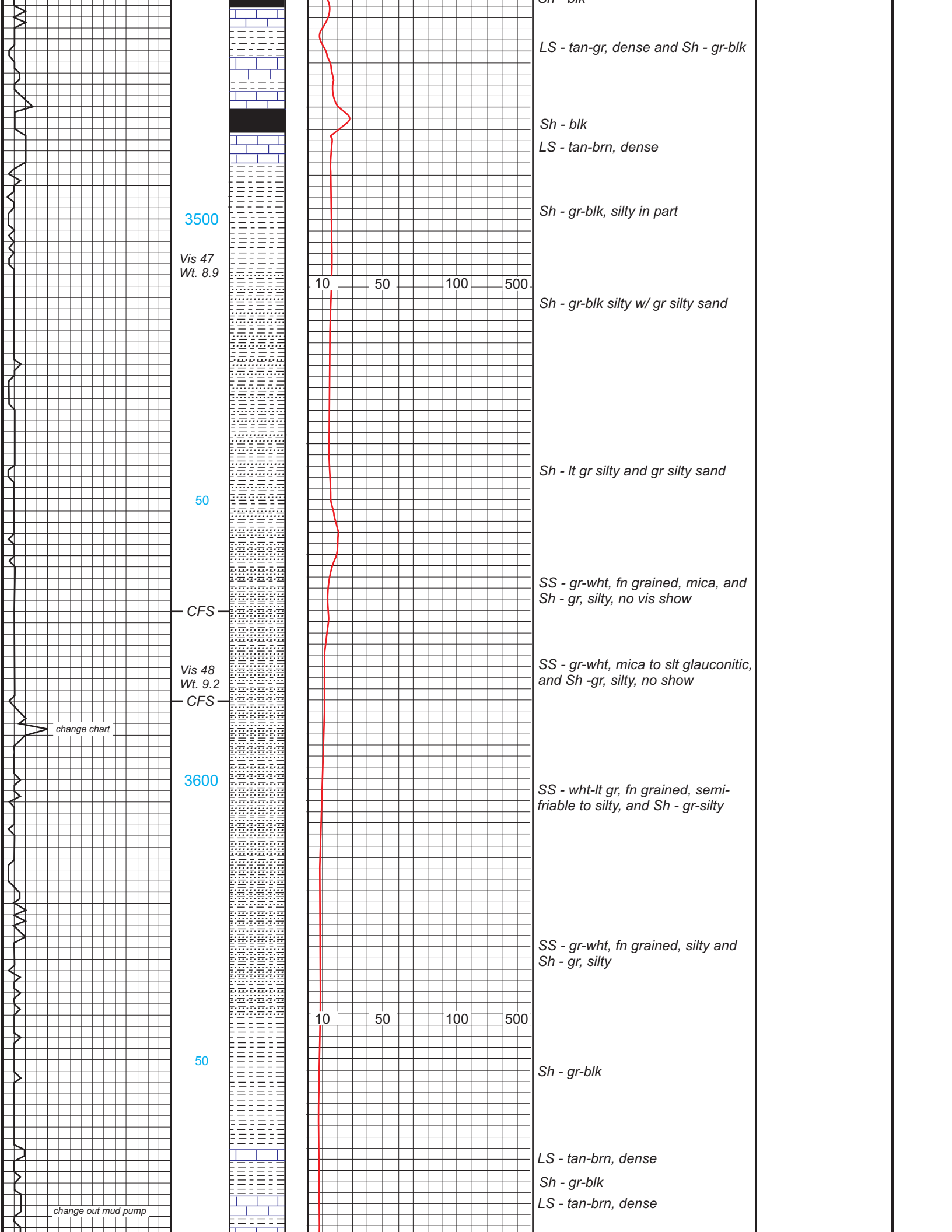
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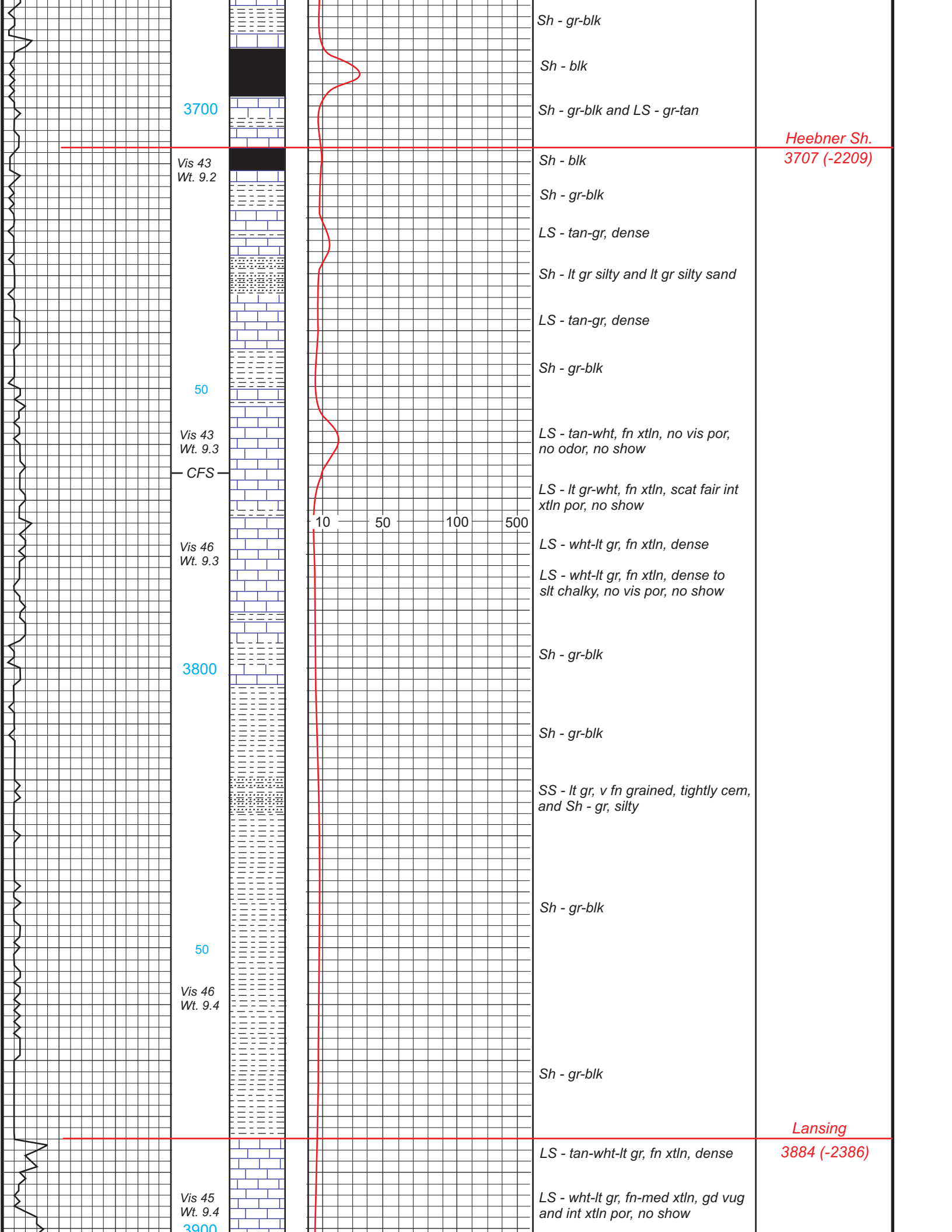
1

5

10







3700

Vis 43
Wt. 9.2

50

Vis 43
Wt. 9.3

CFS

Vis 46
Wt. 9.3

3800

50

Vis 46
Wt. 9.4

Vis 45
Wt. 9.4
3900

10 50 100 500

Sh - gr-blk

Sh - blk

Sh - gr-blk and LS - gr-tan

Sh - blk

Sh - gr-blk

LS - tan-gr, dense

Sh - lt gr silty and lt gr silty sand

LS - tan-gr, dense

Sh - gr-blk

LS - tan-wht, fn xtl, no vis por,
no odor, no show

LS - lt gr-wht, fn xtl, scat fair int
xtln por, no show

LS - wht-lt gr, fn xtl, dense

LS - wht-lt gr, fn xtl, dense to
slt chalky, no vis por, no show

Sh - gr-blk

Sh - gr-blk

SS - lt gr, v fn grained, tightly cem,
and Sh - gr, silty

Sh - gr-blk

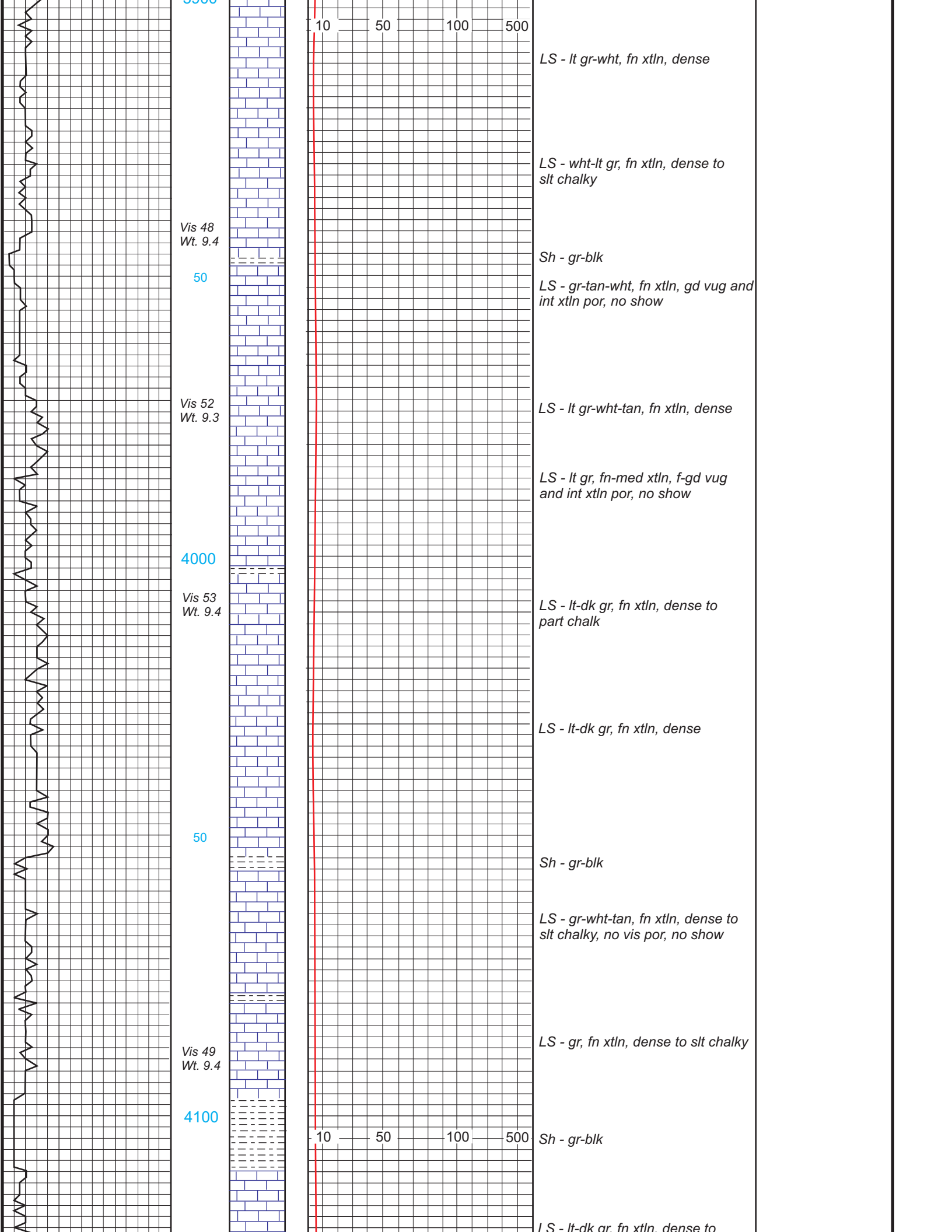
Sh - gr-blk

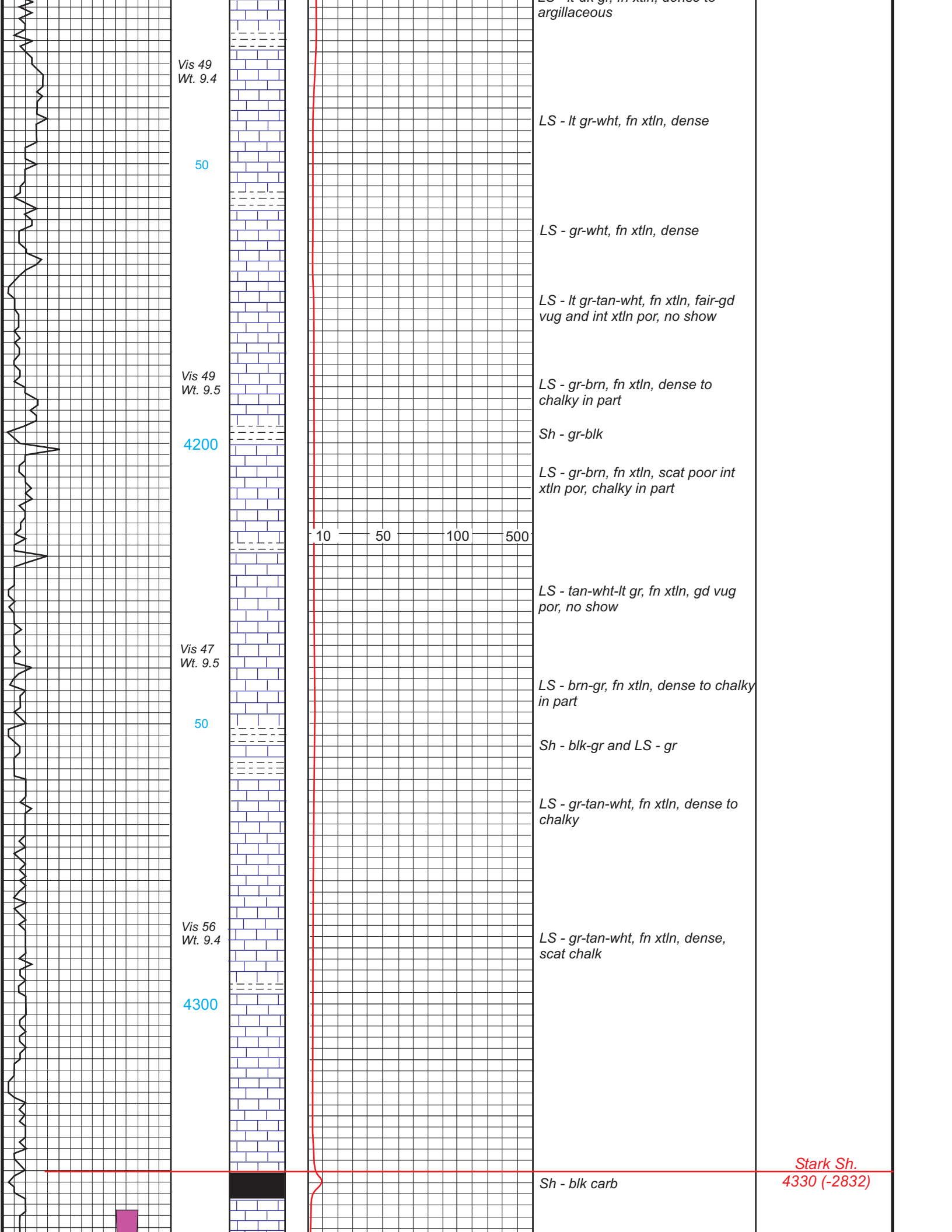
LS - tan-wht-lt gr, fn xtl, dense

LS - wht-lt gr, fn-med xtl, gd vug
and int xtl por, no show

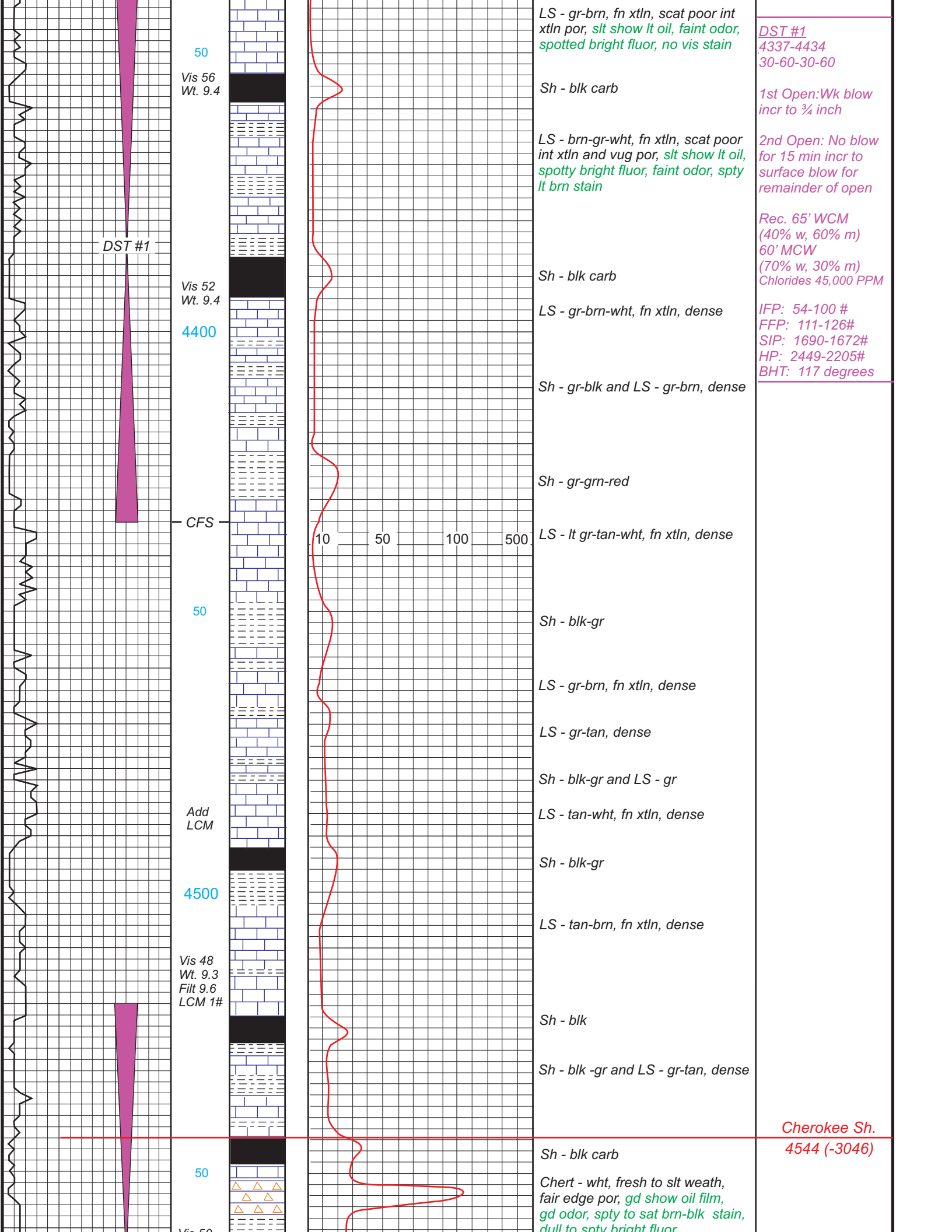
Heebner Sh.
3707 (-2209)

Lansing
3884 (-2386)





Stark Sh.
 4330 (-2832)



DST #1

50
Vis 56
Wt. 9.4

Vis 52
Wt. 9.4
4400

CFS

50

Add
LCM

4500

Vis 48
Wt. 9.3
Filt 9.6
LCM 1#

50

Vis 50

LS - gr-brn, fn xtln, scat poor int xtln por, slt show lt oil, faint odor, spotted bright fluor, no vis stain

Sh - blk carb

LS - brn-gr-wht, fn xtln, scat poor int xtln and vug por, slt show lt oil, spotty bright fluor, faint odor, spty lt brn stain

Sh - blk carb

LS - gr-brn-wht, fn xtln, dense

Sh - gr-blk and LS - gr-brn, dense

Sh - gr-gr-red

LS - lt gr-tan-wht, fn xtln, dense

Sh - blk-gr

LS - gr-brn, fn xtln, dense

LS - gr-tan, dense

Sh - blk-gr and LS - gr

LS - tan-wht, fn xtln, dense

Sh - blk-gr

LS - tan-brn, fn xtln, dense

Sh - blk

Sh - blk-gr and LS - gr-tan, dense

Sh - blk carb

Chert - wht, fresh to slt weath, fair edge por, gd show oil film, gd odor, spty to sat brn-blk stain, dull to spty bright fluor

DST #1
4337-4434
30-60-30-60

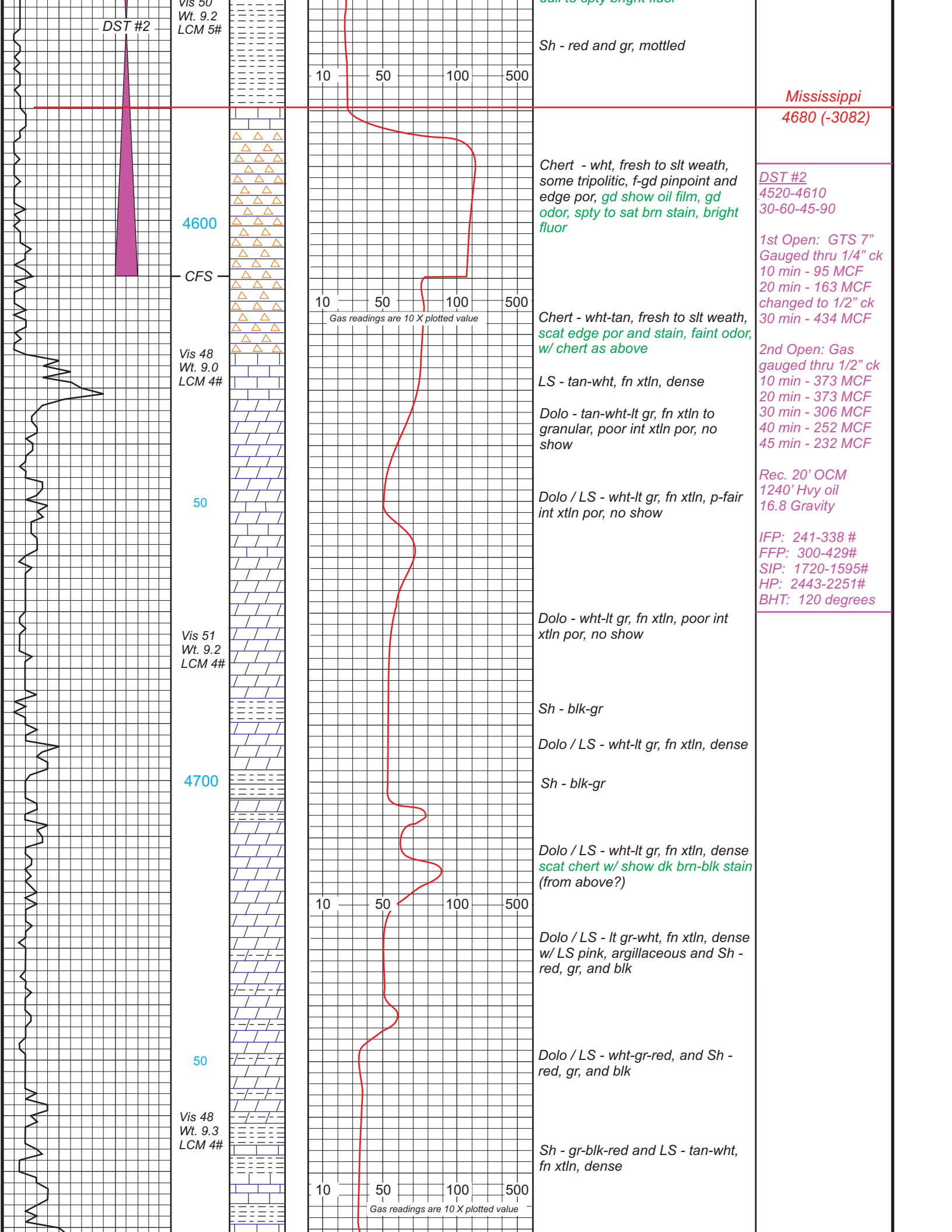
1st Open: Wk blow incr to 3/4 inch

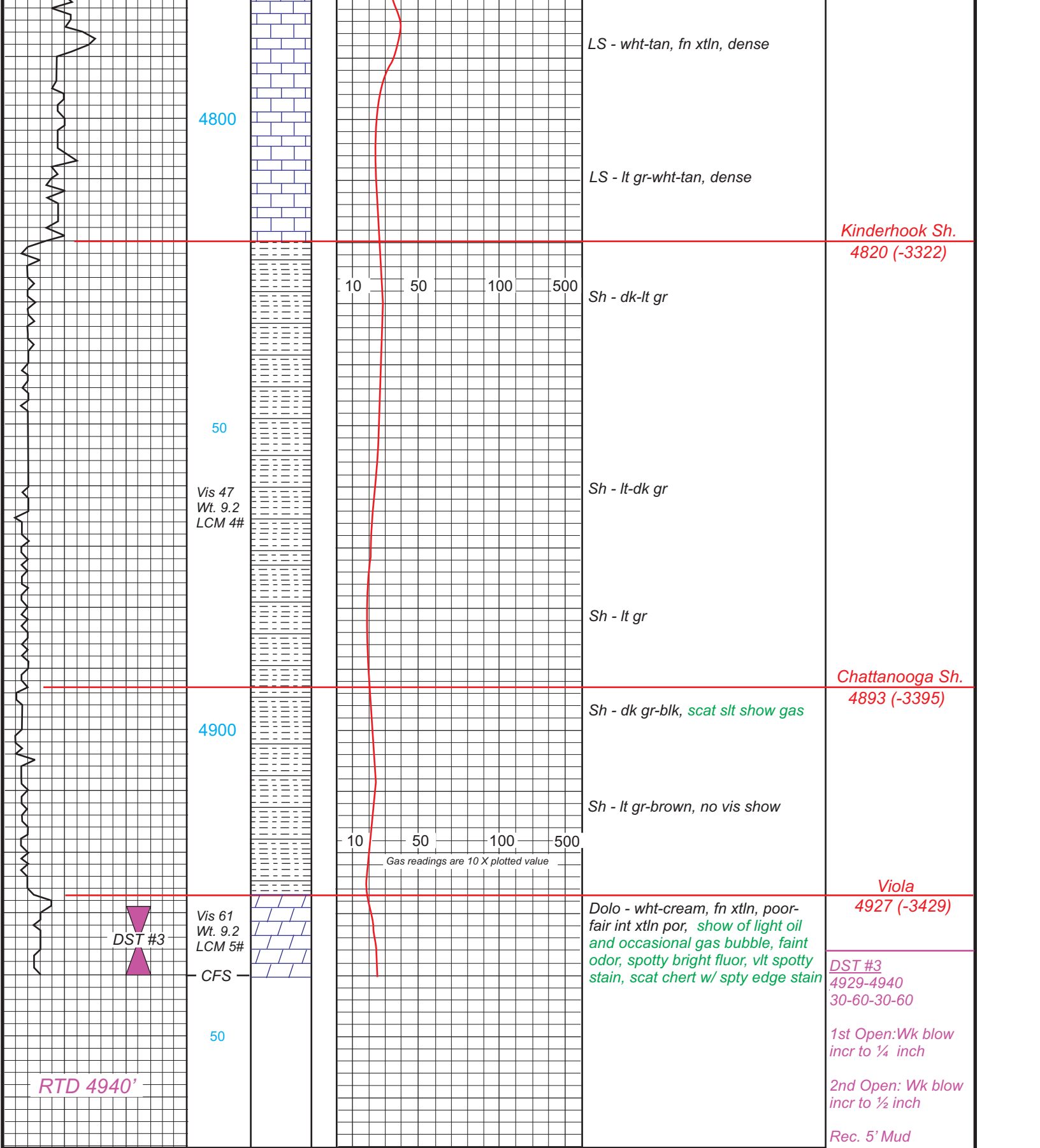
2nd Open: No blow for 15 min incr to surface blow for remainder of open

Rec. 65' WCM (40% w, 60% m)
60' MCW (70% w, 30% m)
Chlorides 45,000 PPM

IFP: 54-100 #
FFP: 111-126#
SIP: 1690-1672#
HP: 2449-2205#
BHT: 117 degrees

Cherokee Sh.
4544 (-3046)





Kinderhook Sh.
4820 (-3322)

Chattanooga Sh.
4893 (-3395)

Viola
4927 (-3429)

DST #3
4929-4940
30-60-30-60

1st Open: Wk blow
incr to 1/4 inch

2nd Open: Wk blow
incr to 1/2 inch

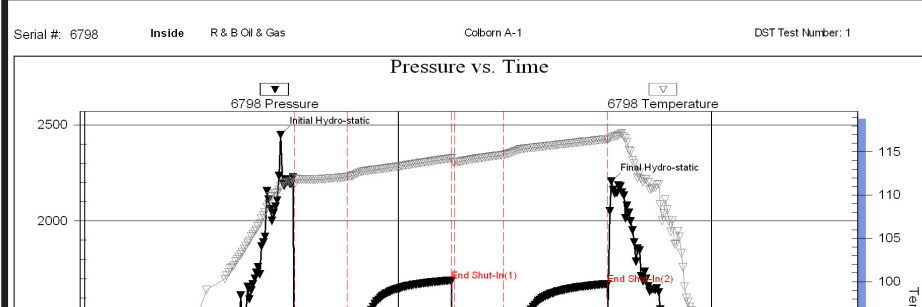
Rec. 5' Mud

IFP: 16-22 #
FFP: 17-21#
SIP: 84-85#
HP: 2614-2461#
BHT: 124 degrees

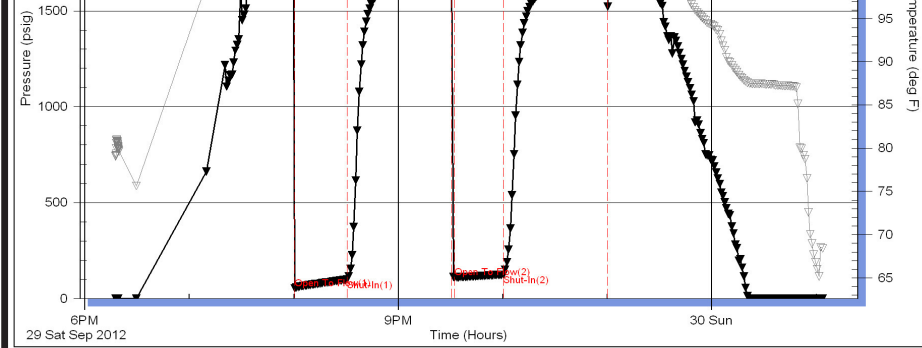
DST #1
4337-4434
30-60-30-60

1st Open: Wk blow
incr to 3/4 inch

2nd Open: No blow
for 15 min incr to



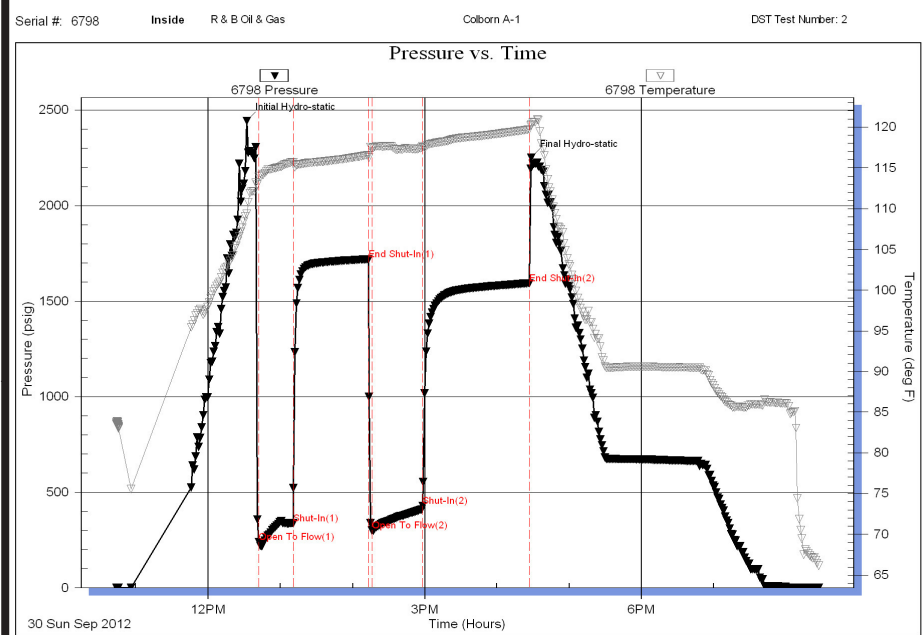
Serial #: 6798 Inside R & B Oil & Gas Colborn A-1 DST Test Number: 1



10: 5000 psi
 surface blow for
 remainder of open

Rec. 65' WCM
 (40% w, 60% m)
 60' MCW
 (70% w, 30% m)
 Chlorides 45,000 PPM

IFP: 54-100 #
 FFP: 111-126#
 SIP: 1690-1672#
 HP: 2449-2205#
 BHT: 117 degrees



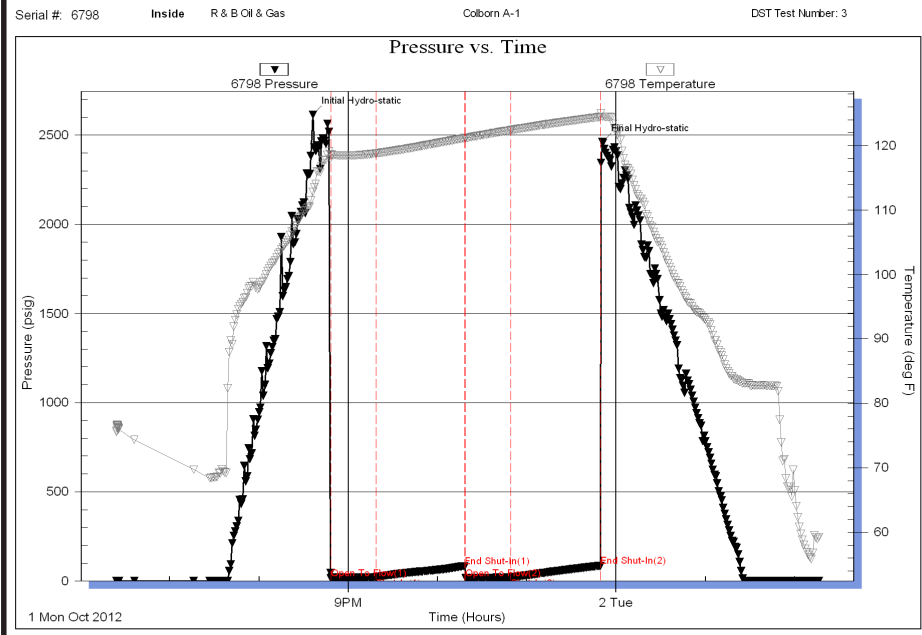
DST #2
 4520-4610
 30-60-45-90

1st Open: GTS 7"
 Gauged thru 1/4" ck
 10 min - 95 MCF
 20 min - 163 MCF
 changed to 1/2" ck
 30 min - 434 MCF

2nd Open: Gas
 gauged thru 1/2" ck
 10 min - 373 MCF
 20 min - 373 MCF
 30 min - 306 MCF
 40 min - 252 MCF
 45 min - 232 MCF

Rec. 20' OCM
 1240' Hvy oil
 16.8 Gravity

IFP: 241-338 #
 FFP: 300-429#
 SIP: 1720-1595#
 HP: 2443-2251#
 BHT: 120 degrees



DST #3
 4929-4940
 30-60-30-60

1st Open: Wk blow
 incr to 1/4 inch

2nd Open: Wk blow
 incr to 1/2 inch

Rec. 5' Mud

IFP: 16-22 #
 FFP: 17-21#
 SIP: 84-85#
 HP: 2614-2461#
 BHT: 124 degrees

