



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1200689  
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: \_\_\_\_\_

1200689

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ALLIED OIL & GAS SERVICES, LLC 062280

Federal Tax I.D. # 20-8651476

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

SERVICE POINT:  
*Medicine Lodge, KS*

DATE <i>12/2/13</i>	SEC <i>16</i>	TWP <i>81</i>	RANGE <i>8</i>	CALLED OUT <i>1:45 PM</i>	ON LOCATION <i>2:30 PM</i>	JOB START <i>3:45 PM</i>	JOB FINISH <i>4:00 PM</i>
LEASE <i>16161</i> WELL # <i>A-1</i>			LOCATION <i>MAG Plant 2 south</i>		COUNTY <i>Hwy 16</i>	STATE <i>Kansas</i>	
OLD OR NEW (Circle one) <i>NEW</i>				<i>2 east north into</i>			

CONTRACTOR <i>Hardt</i>	OWNER <i>R+B Oil + Gas</i>
TYPE OF JOB <i>Surface</i>	
HOLE SIZE <i>12 1/4"</i>	T.D. <i>271'</i>
CASING SIZE <i>8 5/8"</i>	DEPTH <i>271'</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <i>300</i>	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <i>16 Bbls water</i>	
EQUIPMENT	
PUMP TRUCK # <i>47265</i>	CEMENTER <i>Paul Baldrey</i>
BULK TRUCK # <i>36-250</i>	HELPER <i>Dave Felio</i>
BULK TRUCK #	DRIVER <i>(TWS)</i>
BULK TRUCK #	DRIVER

CEMENT AMOUNT ORDERED	<i>195 sx 60:40:3 cc + 2K GC</i>	
COMMON	<i>A</i>	<i>117 sx @ 17.90 2094.30</i>
POZMIX	<i>78 sx @ 9.35</i>	<i>729.30</i>
GBL	<i>3.35 sx @ 23.40</i>	<i>78.39</i>
CHLORIDE	<i>6.28 sx @ 64.00</i>	<i>402.48</i>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<i>209.57</i>	<i>@ 2.48 519.73</i>
MILEAGE	<i>8.80/30/2.60</i>	<i>686.40</i>
TOTAL <i>4510.60</i>		

**REMARKS:**  
*Run 271' 8 5/8 casing*  
*Break circulation w/ Rig*  
*Run 15 Bbls Fresh*  
*195 sx 60:40:3+2*  
*Displace with 16 Bbls water*  
*Lean 20' cement in pipe*  
*Shut in*  
*Cement did circulate*

SERVICE		
DEPTH OF JOB	<i>271'</i>	
PUMP TRUCK CHARGE	<i>1512.25</i>	
EXTRA FOOTAGE	@	
MILEAGE	<i>30 @ 7.70</i>	<i>231.00</i>
MANIFOLD	@	
<i>LV 30</i>	<i>@ 4.40</i>	<i>132.00</i>
	@	

CHARGE TO: *R+B Oil + Gas*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL *1875.25*

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 *6385.85*

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS \_\_\_\_\_

NET *5108.68*

PRINTED NAME \_\_\_\_\_

SIGNATURE *Scott C. Osler*

# ALLIED OIL & GAS SERVICES, LLC 062409

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Medicine Horse ks

DATE <u>12-9-2013</u>	SEC <u>16</u>	TWP <u>31s</u>	RANGE <u>8W</u>	CALLED OUT <u>12:00 pm</u>	ON LOCATION <u>3:00 pm</u>	JOB START <u>8:30 am</u>	JOB FINISH <u>5:45 pm</u>
LEASE <u>Hosstetter</u>	WELL # <u>1</u>	LOCATION <u>mes plant, 2 south</u>			COUNTY <u>Hwyder</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>2 essr, n/mto</u>				

CONTRACTOR Hgrat #1  
 TYPE OF JOB Production  
 HOLE SIZE 7 7/8 T.D. 4610'  
 CASING SIZE 5 1/2 14# DEPTH 4551'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 42'  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 109 bbls of 20% KCL wt

OWNER Rob Oil & Gas  
 CEMENT  
 AMOUNT ORDERED 405x 60:40:490 set  
14% SMC, 150 sp C985 H + 100% SSIT  
5# cement, 145512 clspre, ASF  
 COMMON A 24 SX @ 17.90 429.60  
 POZMIX 16 SX @ 9.35 149.60  
 GEL 2 SX @ 23.40 46.80  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
H 150 SX @ 21.20 3180.00  
SALT 8 SX @ 26.35 210.80  
Kolseal 750 # @ .98 735.00  
SMS #14 @ 3.30 46.20  
ASF 12 Gals @ 58.70 704.40  
Clapro 11 Gals @ 34.40 378.40  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 218.82 @ 2.48 542.67  
 MILEAGE 9.60/30/2-60 748.80  
 TOTAL 7122.27

EQUIPMENT  
 PUMP TRUCK CEMENTER Darin F.  
 # 548-545 HELPER Scott P.  
 BULK TRUCK  
 # 421-290 DRIVER John R.  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Pipe on bottom & basic circulation  
Pressure test to 2000 psi, pump 20 bbls KCL  
water, 3 bbls water, 80 bbls ASF, 3 bbls water, mix  
150 sp Rgt hole, mix 25 sp less cement, mix  
150 sp tail cement, shut down, wash pump  
& lines, release plug, 80 gals displacement  
1.4" pressure @ 90 bbls slow rate to 30 pm  
9-10 2 bbls, pump plus @ 109 bbls 700  
1400 psi, float and hole

SERVICE

DEPTH OF JOB 4551'  
 PUMP TRUCK CHARGE 2765.60  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 30 @ 7.70 231.00  
 MANIFOLD Hegarenasi @ 275.00  
LU 30 @ 4.40 132.00  
 \_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: Rob Oil & Gas  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3403.60

PLUG & FLOAT EQUIPMENT

5 1/2  
 1- Rubber Plug @ 85.41  
 1- Guide Shoe @ 280.20  
 1- APV Insert @ 334.62  
 8- Conns 11/2" @ 57.33 458.64  
 15- Scrappers @ 88.92 1333.80

TOTAL 2492.67

To: Allied Oil & Gas Services, LLC.  
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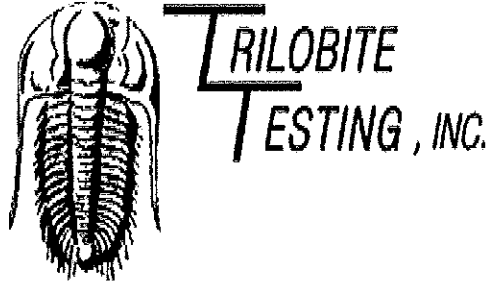
SALES TAX (if Any) \_\_\_\_\_  
 TOTAL CHARGES 13,068.54  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME X TIM PIERCE

(NET) 10,953.36

SIGNATURE X Tim Pierce

Thank you!!!



## DRILL STEM TEST REPORT

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

PO Box 195  
Attica KS 67009

ATTN: Tim Pierce

**Hostetler A#1**

**16-31s-8w Harper,KS**

Start Date: 2013.12.07 @ 01:29:18

End Date: 2013.12.07 @ 09:11:33

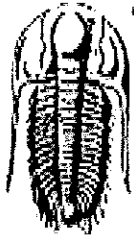
Job Ticket #: 51791                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.10 @ 14:40:58



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R & B Oil & Gas Inc.

16-31s-8w Harper, KS

PO Box 195  
Attica KS 67009

Hostetler A#1

Job Ticket: 51791

DST#: 1

ATTN: Tim Pierce

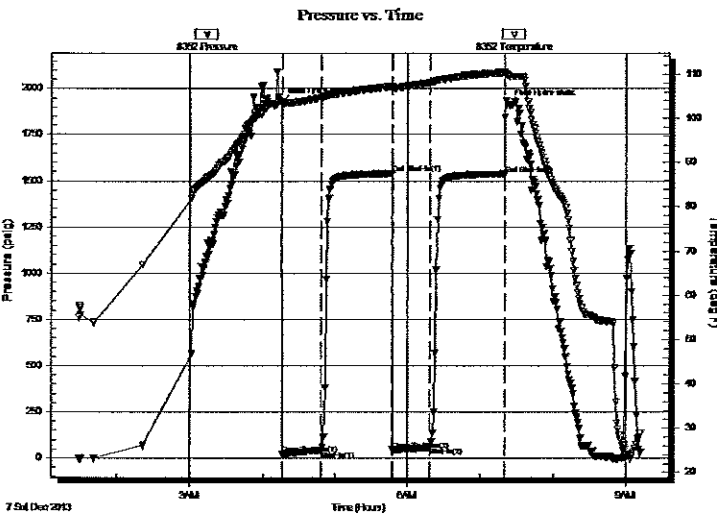
Test Start: 2013.12.07 @ 01:29:18

## GENERAL INFORMATION:

Formation: **KC**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 04:16:03  
 Time Test Ended: 09:11:33  
 Interval: **3909.00 ft (KB) To 3931.00 ft (KB) (TVD)**  
 Total Depth: **3931.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Gary Pevoteaux**  
 Unit No: **56**  
 Reference Elevations: **1610.00 ft (KB)**  
**1600.00 ft (CF)**  
**KB to GR/CF: 10.00 ft**

**Serial #: 8352** Inside  
 Press@RunDepth: **58.83 psig @ 3910.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.12.07** End Date: **2013.12.07** Last Calib.: **2013.12.07**  
 Start Time: **01:29:23** End Time: **09:11:32** Time On Btm: **2013.12.07 @ 04:15:03**  
 Time Off Btm: **2013.12.07 @ 07:22:18**

TEST COMMENT: IF:Weak blow . 1 - 1 1/2".  
 IS:No blow .  
 FF:Weak blow . 1/4 - 1/2".  
 FS:No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.49	103.88	Initial Hydro-static
1	21.22	103.05	Open To Flow (1)
34	41.74	104.64	Shut-In(1)
93	1539.52	107.24	End Shut-In(1)
93	46.99	106.70	Open To Flow (2)
123	58.83	108.04	Shut-In(2)
185	1537.70	110.39	End Shut-In(2)
188	1916.03	109.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	WMw / a few o specs 19%w 81%m	0.37

## Gas Rates

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

R & B Oil & Gas Inc.

16-31s-8w Harper,KS

PO Box 195  
Attica KS 67009

Hostetler A#1

Job Ticket: 51791

DST#: 1

ATTN: Tim Pierce

Test Start: 2013.12.07 @ 01:29:18

### GENERAL INFORMATION:

Formation: **KC**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 04:16:03  
 Time Test Ended: 09:11:33  
 Interval: **3909.00 ft (KB) To 3931.00 ft (KB) (TVD)**  
 Total Depth: **3931.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Gary Pevoteaux**  
 Unit No: **56**

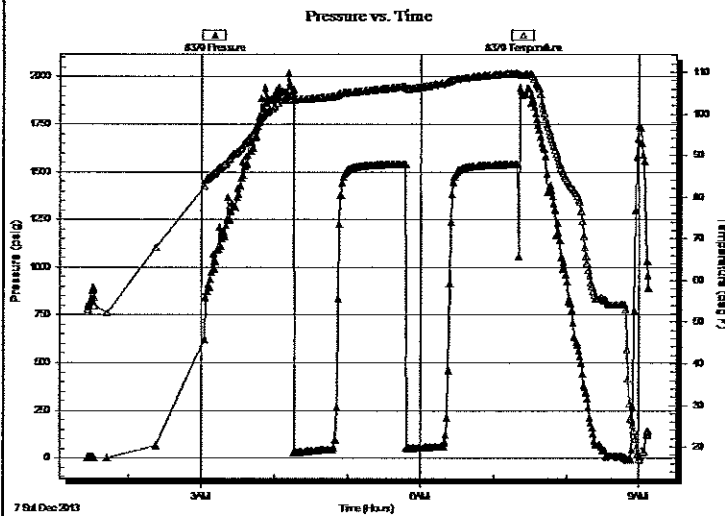
Reference Elevations: **1610.00 ft (KB)**  
**1600.00 ft (CF)**  
**KB to GR/CF: 10.00 ft**

**Serial #: 8370**

**Outside**

Press@RunDepth: **psig @ 3910.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.12.07** End Date: **2013.12.07** Last Calib.: **2013.12.07**  
 Start Time: **01:26:10** End Time: **09:07:27** Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF:Weak blow . 1 - 1 1/2".  
 IS:No blow .  
 FF:Weak blow . 1/4 - 1/2".  
 FS:No blow .



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
75.00	WM w/ a few o specs 19%w 81%w	0.37

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

R & B Oil & Gas Inc.

**16-31s-8w Harper,KS**

PO Box 195  
Attica KS 67009

**Hostetler A#1**

Job Ticket: 51791

**DST#: 1**

ATTN: Tim Fierce

Test Start: 2013.12.07 @ 01:29:18

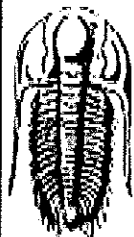
## Tool Information

Drill Pipe:	Length: 3779.00 ft	Diameter: 3.80 inches	Volume: 53.01 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 67000.00 lb
			<b>Total Volume: 53.60 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	3909.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3890.00	
Shut in tool	5.00			3895.00	
HMV	5.00			3900.00	
Packer	4.00			3904.00	20.00 Bottom Of Top Packer
Packer	5.00			3909.00	
Stubb	1.00			3910.00	
Recorder	0.00	8352	Inside	3910.00	
Recorder	0.00	8370	Outside	3910.00	
Perforations	16.00			3926.00	
Bullnose	5.00			3931.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R & B Oil & Gas Inc.

16-31s-8w Harper,KS

PO Box 195  
Attica KS 67009

Hostetler A#1

Job Ticket: 51791

DST#: 1

ATTN: Tim Fierce

Test Start: 2013.12.07 @ 01:29:18

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 8.77 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 4700.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 40000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	WM w/ a few o specs 19%w 81%m	0.369

Total Length: 75.00 ft      Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .31 ohms@ 40 deg

Serial #: 8352

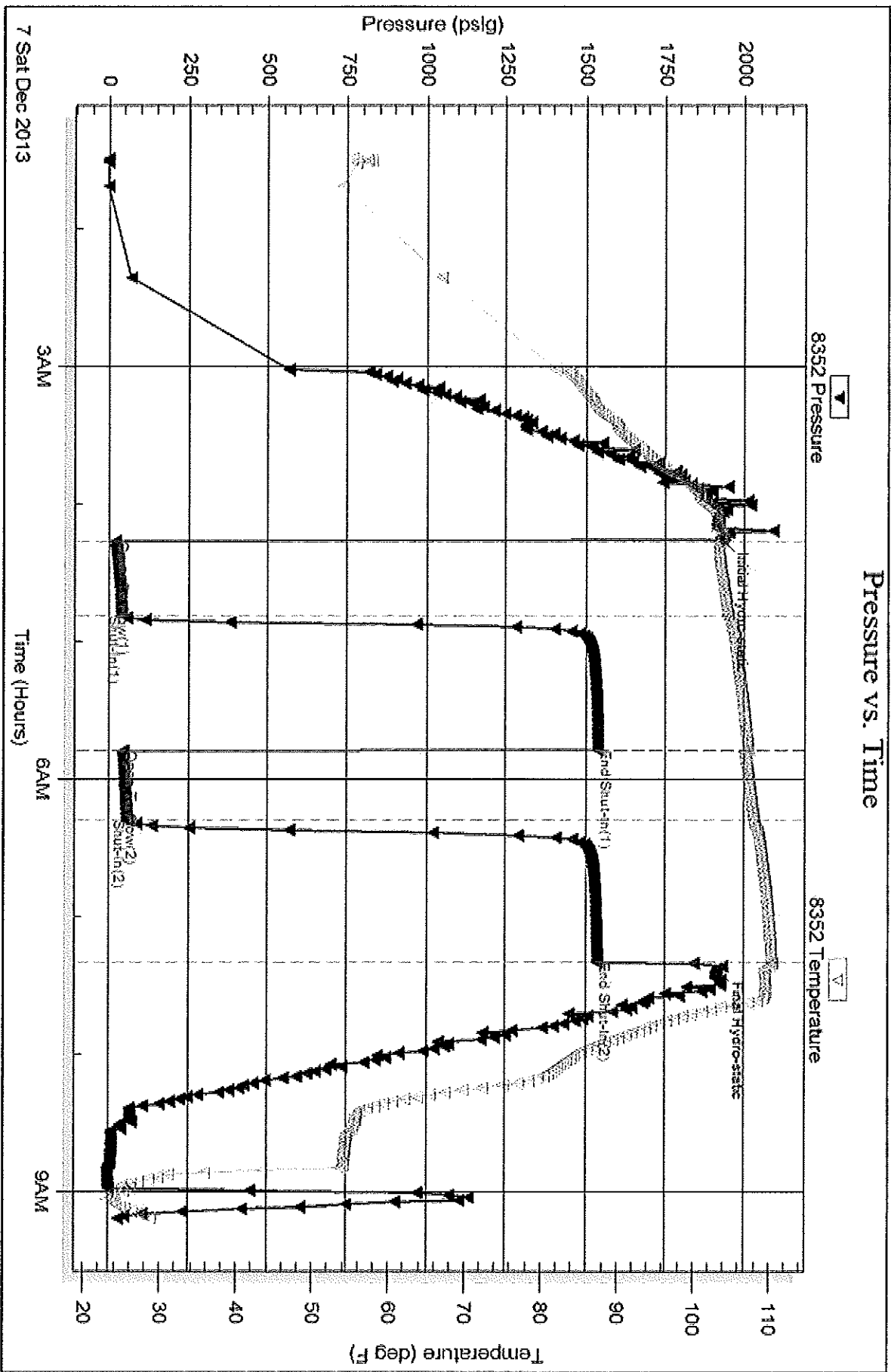
Inside

R & B Oil & Gas Inc.

Hosteler A#1

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51791

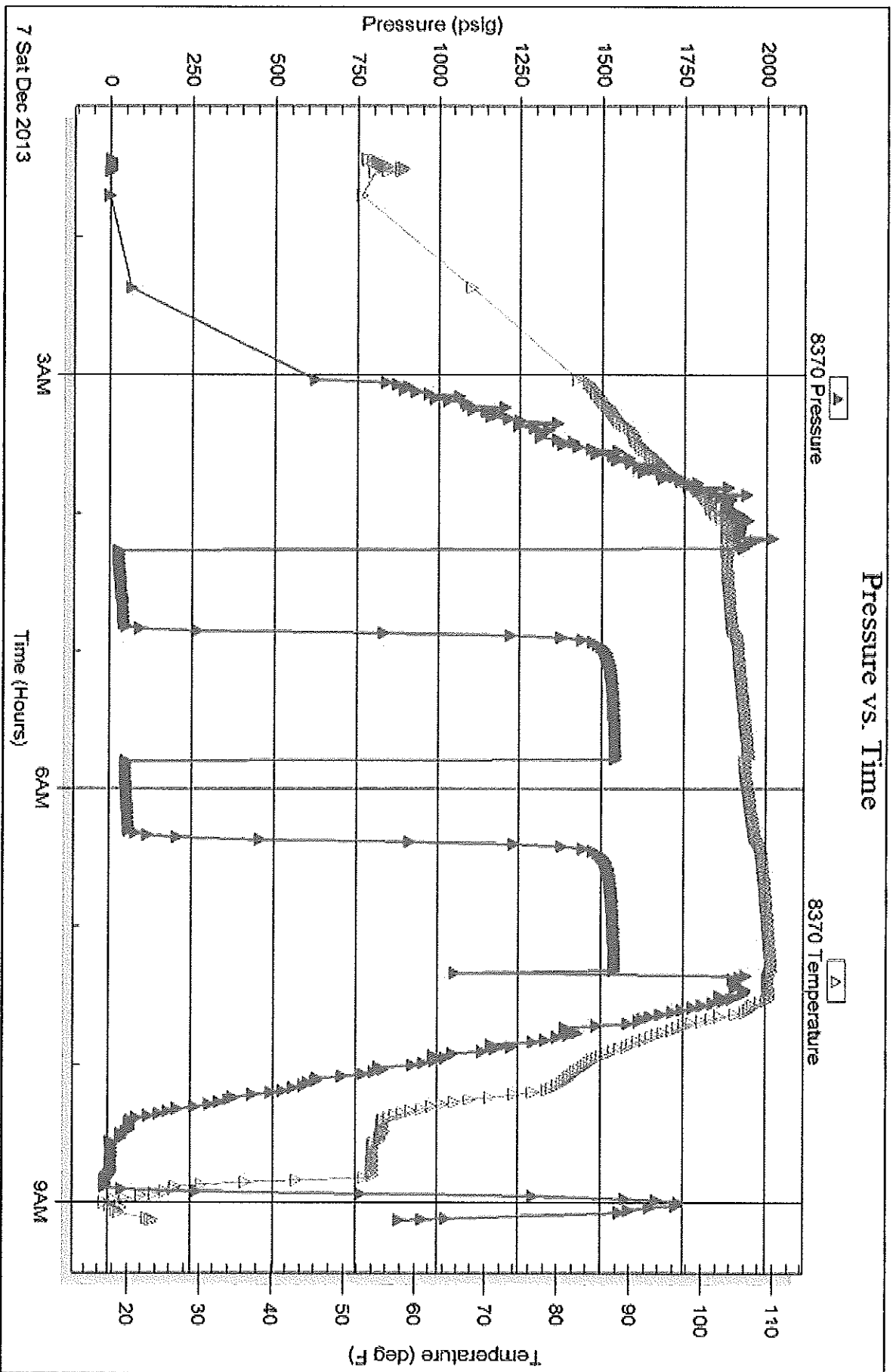
Printed: 2013.12.10 @ 14:41:01

Serial #: 8370

Outside R & B Oil & Gas Inc.

Hosteler A#1

DST Test Number: 1





# Timothy G. Pierce

## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY R & B Oil and Gas, Inc.

LEASE Hostetler 'A' #1

FIELD Spivey-Grabs

LOCATION 2235' FSL & 330' FEL

SEC 16 TWPSP 31S RGE 8W

COUNTY Harper STATE Kansas

CONTRACTOR Hardt Drilling Rig #1

SPUD 12-02-2013 COMP 12-09-2013

RTD 4610 LTD 4614

MUD UP 2845 TYPE MUD Chemical

SAMPLES SAVED FROM 2300 TO RTD

DRILLING TIME KEPT FROM 2300 TO RTD

SAMPLES EXAMINED FROM 2300 TO RTD

GEOLOGICAL SUPERVISION FROM 2300 TO RTD

GEOLOGIST ON WELL Tim Pierce

#### ELEVATIONS

KB 1610'

DF \_\_\_\_\_

GL 1600'

Measurements Are All  
From Kelly Bushing

#### CASING

CONDUCTOR \_\_\_\_\_

SURFACE 8-5/8" at 269'

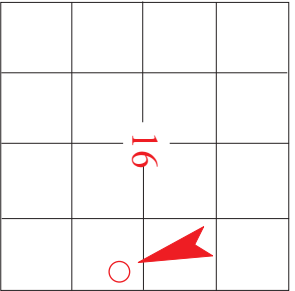
PRODUCTION 5-1/2" at 4589'

#### ELECTRICAL SURVEYS

DIL / DuCP

Pioneer Energy Svcs.

FORMATION TOPS	ELECTRIC LOG	SAMPLE
<u>Onaga Sh.</u>	<u>2338 (-728)</u>	<u>2338 (-728)</u>
<u>Topeka LS</u>	<u>2962 (-1352)</u>	<u>2961 (-1351)</u>
<u>Heebner Sh.</u>	<u>3372 (-1762)</u>	<u>3367 (-1757)</u>
<u>Lansing</u>	<u>3628 (-2018)</u>	<u>3627 (-2017)</u>
<u>Stark Sh.</u>	<u>4030 (-2420)</u>	<u>4028 (-2418)</u>
<u>Cherokee Sh.</u>	<u>4272 (-2662)</u>	<u>4275 (-2665)</u>
<u>Mississippi</u>	<u>4375 (-2765)</u>	<u>4374 (-2764)</u>



API # 15-077-21,992

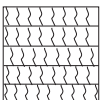
REMARKS Samples and drill time indicate a probable productive zone in the Mississippi from 4375' - 4415'

A slight show was observed in the Kansas City from 3924'-3931', this zone was condemned in DST #1

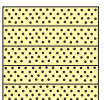
There were no other zones of interest indicated by samples or electric logs.

*Timothy G. Pierce*

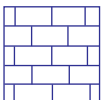
### LEGEND



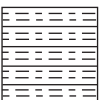
Anhydrite



Sandstone



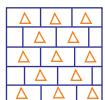
Limestone



Shale



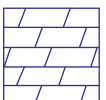
Carb Sh



Cherty LS



Chert



Dolomite

DRILLING TIME IN  
MINUTES PER FOOT

Rate of Penetration Decreases



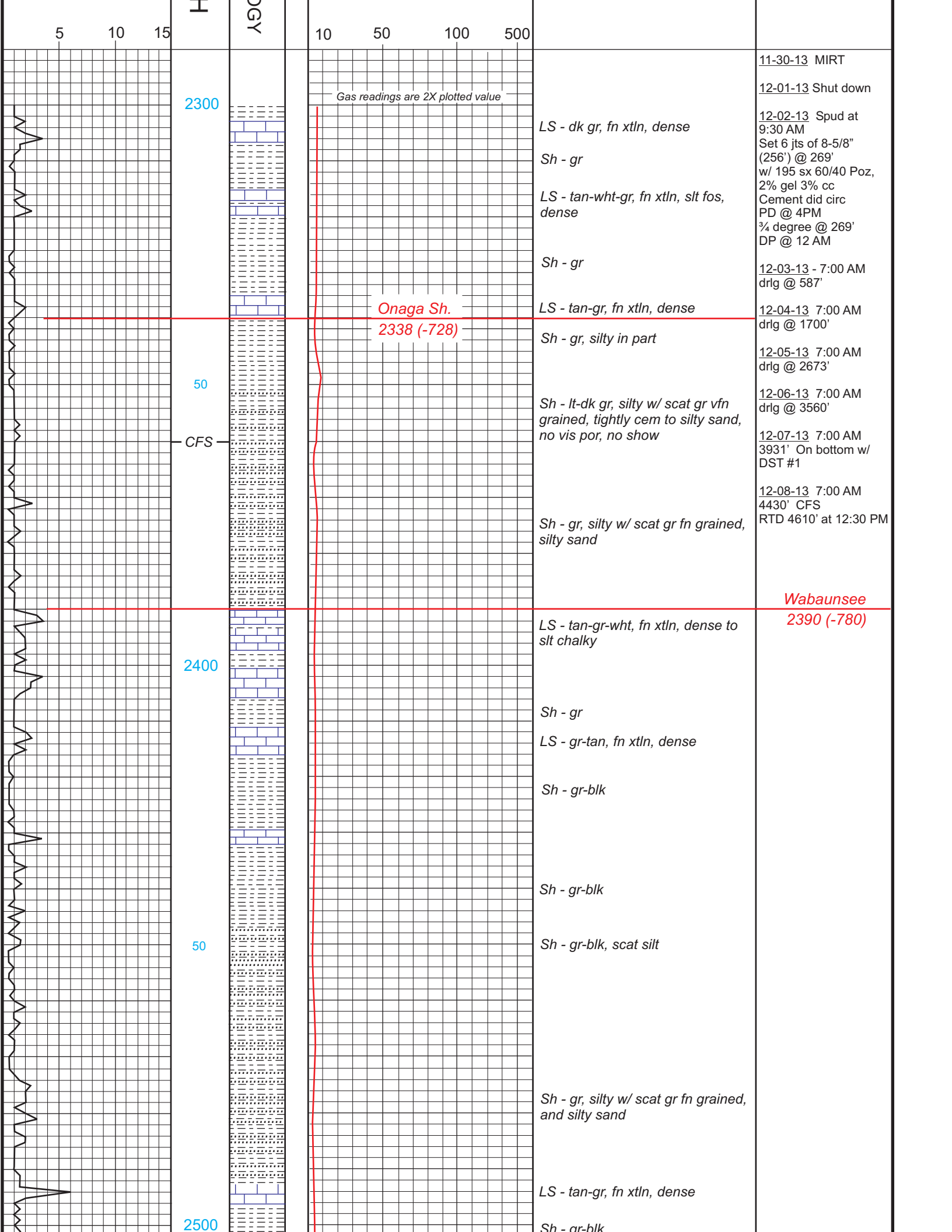
DEPTH

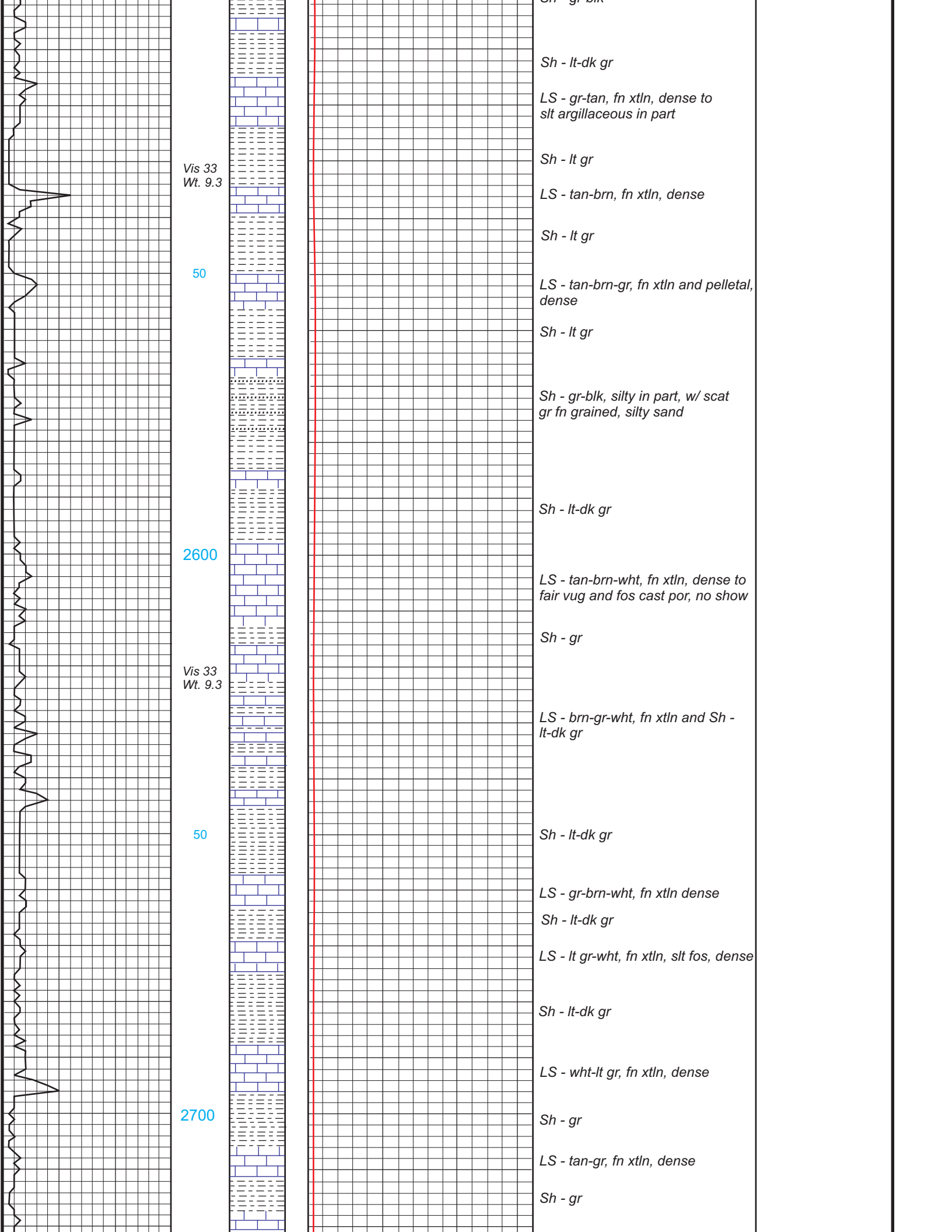
LITHOLOG

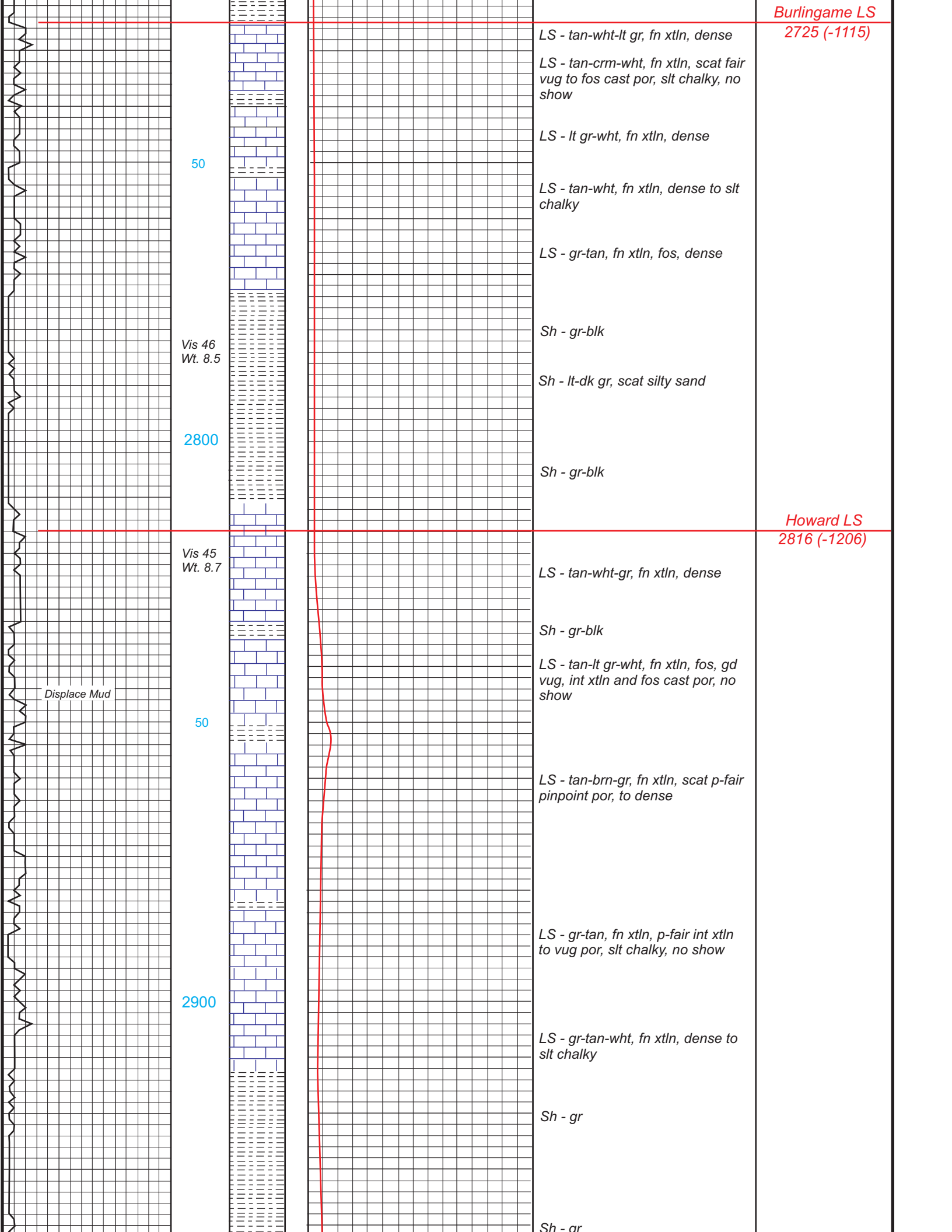
GAS SCALE

SAMPLE DESCRIPTION

REMARKS







*Burlingame LS*  
2725 (-1115)

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

*LS - tan-crm-wht, fn xtln, scat fair vug to fos cast por, slit chalky, no show*

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

*LS - tan-wht, fn xtln, dense to slit chalky*

*LS - gr-tan, fn xtln, fos, dense*

*Sh - gr-blk*

*Sh - lt-dk gr, scat silty sand*

*Sh - gr-blk*

50

Vis 46  
Wt. 8.5

2800

*Howard LS*  
2816 (-1206)

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

*Sh - gr-blk*

*LS - tan-lt gr-wht, fn xtln, fos, gd vug, int xtln and fos cast por, no show*

*LS - tan-brn-gr, fn xtln, scat p-fair pinpoint por, to dense*

*LS - gr-tan, fn xtln, p-fair int xtln to vug por, slit chalky, no show*

*LS - gr-tan-wht, fn xtln, dense to slit chalky*

*Sh - gr*

*Sh - gr*

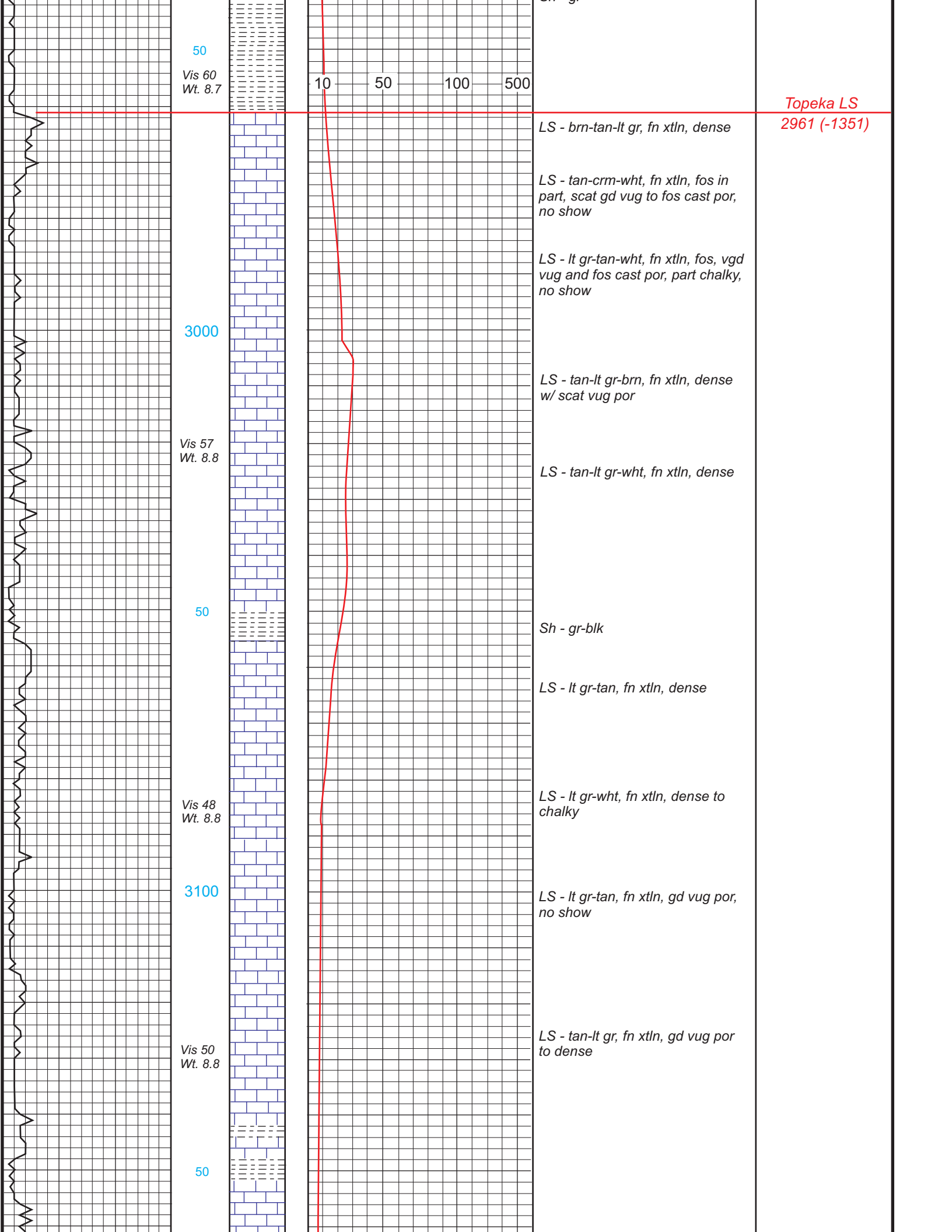
Vis 45  
Wt. 8.7

50

2900

Displace Mud





50  
Vis 60  
Wt. 8.7

10 50 100 500

Topeka LS  
2961 (-1351)

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

LS - tan-crm-wht, fn xtln, fos in part, scat gd vug to fos cast por, no show

LS - lt gr-tan-wht, fn xtln, fos, vgd vug and fos cast por, part chalky, no show

3000

LS - tan-lt gr-brn, fn xtln, dense w/ scat vug por

Vis 57  
Wt. 8.8

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

50

Sh - gr-blk

LS - lt gr-tan, fn xtln, dense

Vis 48  
Wt. 8.8

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

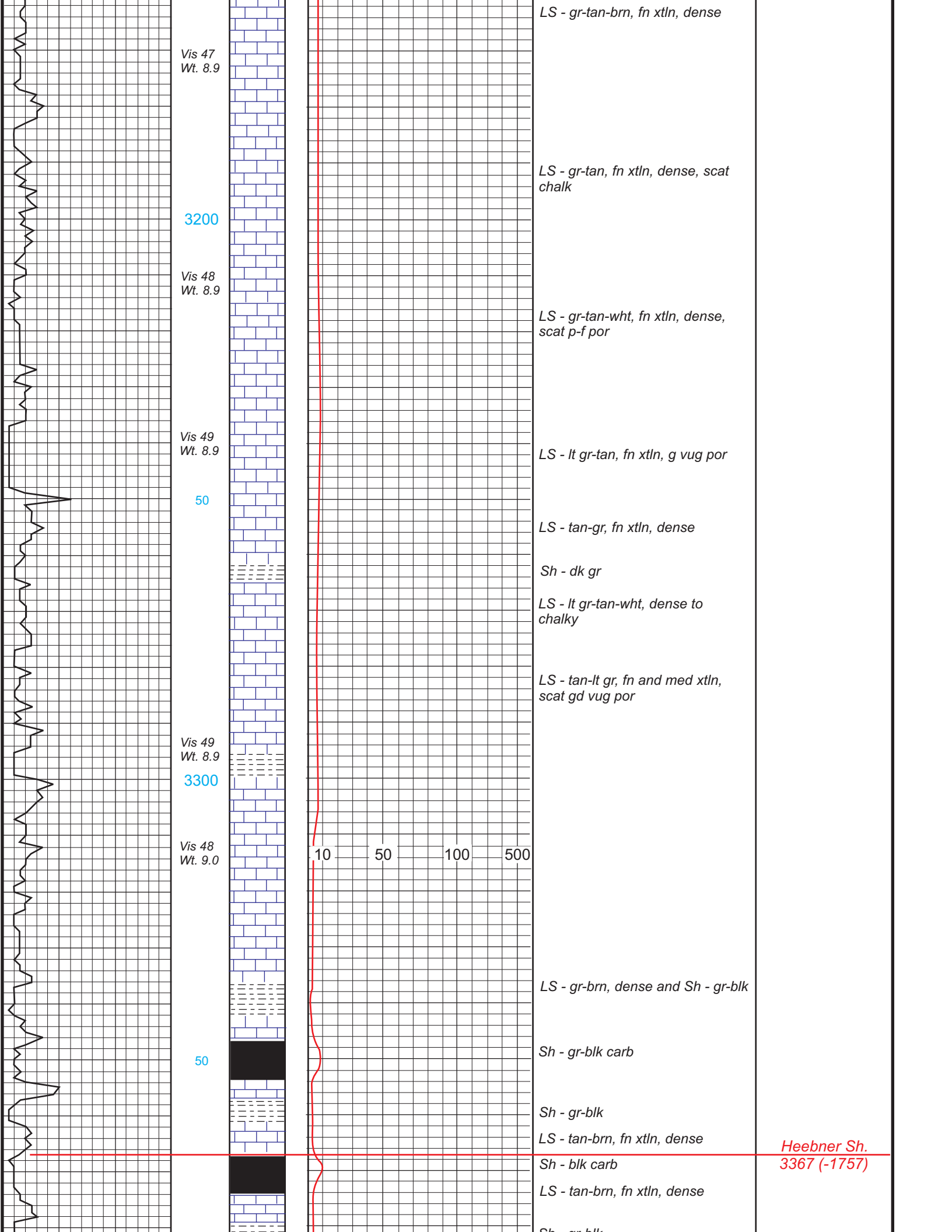
3100

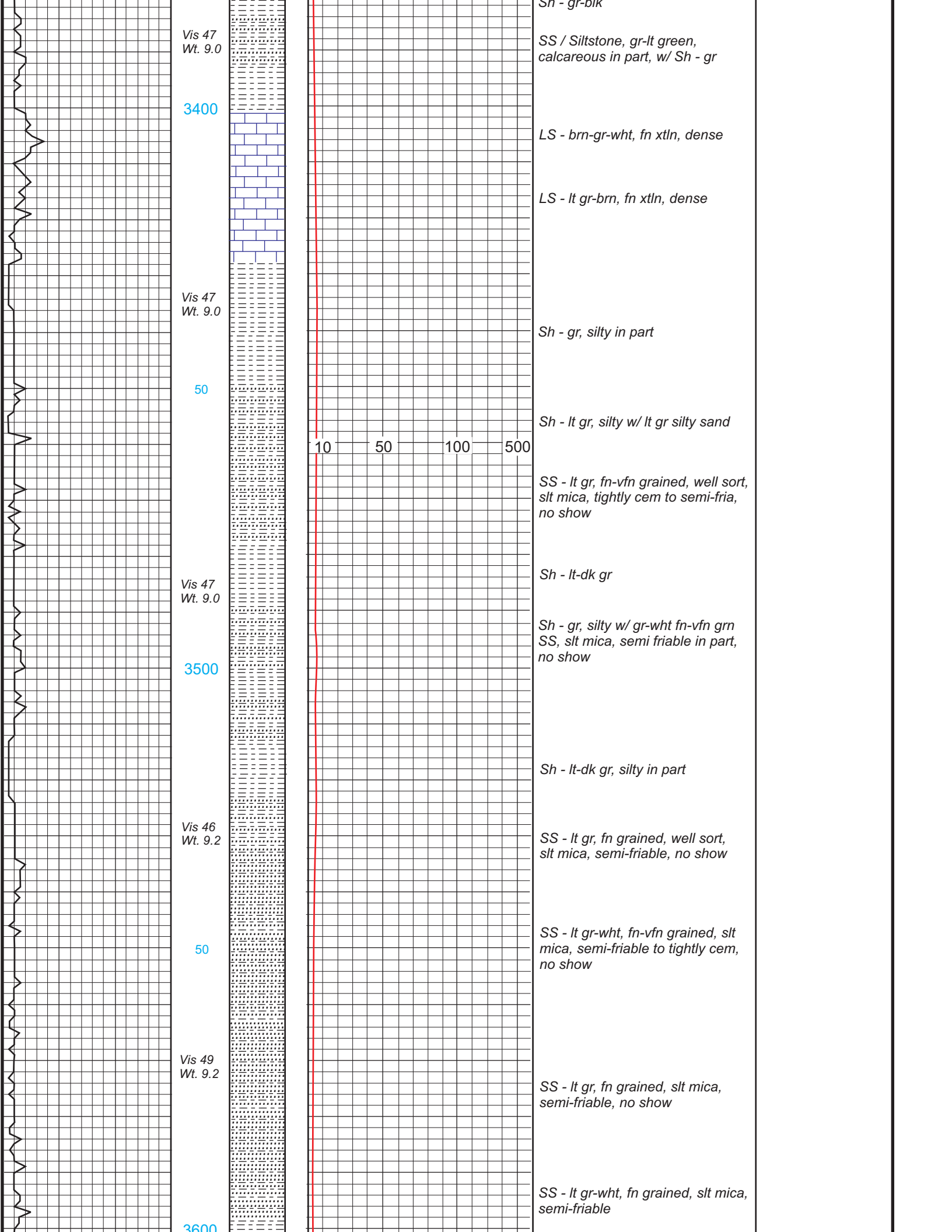
LS - lt gr-tan, fn xtln, gd vug por, no show

Vis 50  
Wt. 8.8

LS - tan-lt gr, fn xtln, gd vug por to dense

50





Vis 47  
Wt. 9.0

3400

Vis 47  
Wt. 9.0

50

Vis 47  
Wt. 9.0

3500

Vis 46  
Wt. 9.2

50

Vis 49  
Wt. 9.2

3600

10 50 100 500

Sh - gr-blk

SS / Siltstone, gr-lt green,  
calcareous in part, w/ Sh - gr

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

LS - lt gr-brn, fn xtltn, dense

Sh - gr, silty in part

Sh - lt gr, silty w/ lt gr silty sand

SS - lt gr, fn-vfn grained, well sort,  
slt mica, tightly cem to semi-fria,  
no show

Sh - lt-dk gr

Sh - gr, silty w/ gr-wht fn-vfn grn  
SS, slt mica, semi friable in part,  
no show

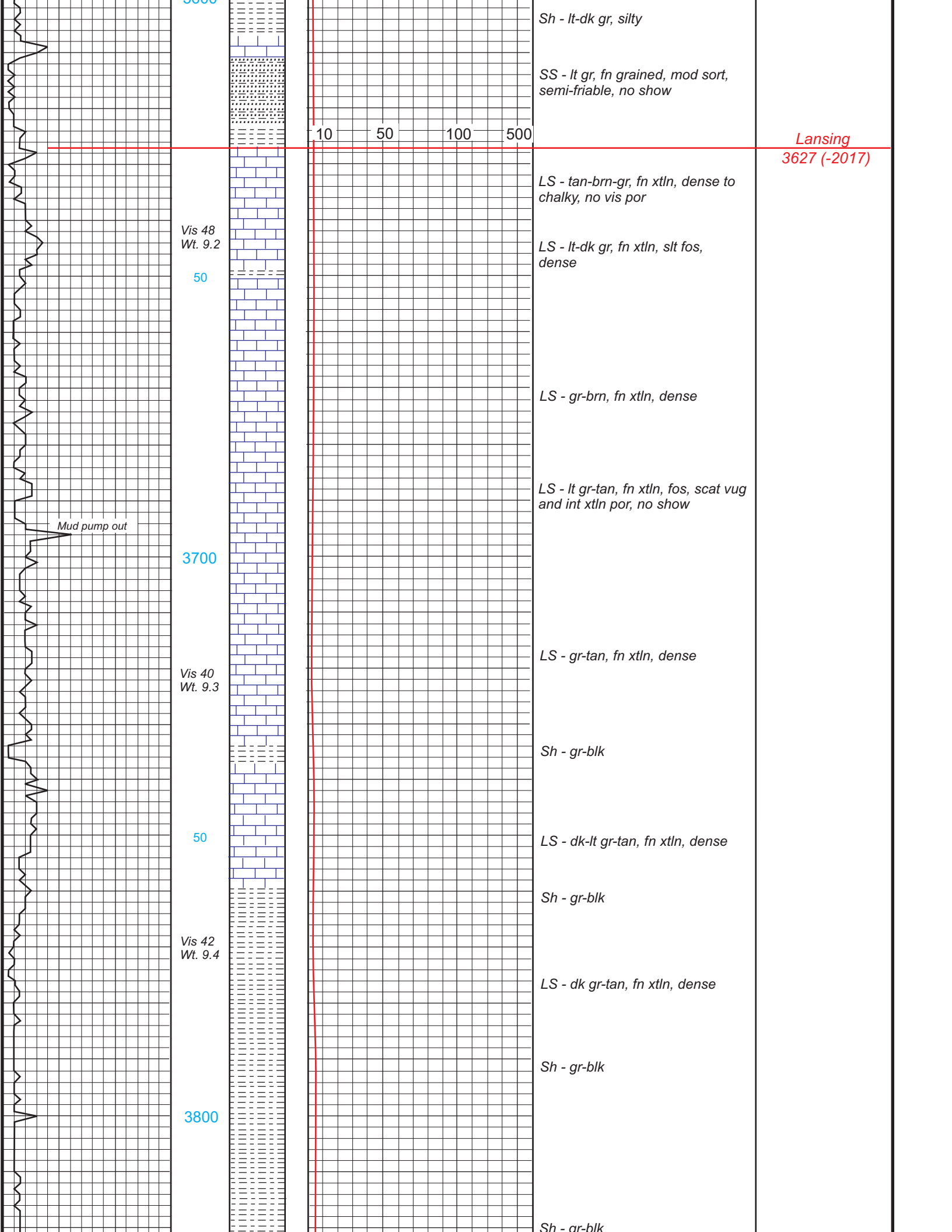
Sh - lt-dk gr, silty in part

SS - lt gr, fn grained, well sort,  
slt mica, semi-friable, no show

SS - lt gr-wht, fn-vfn grained, slt  
mica, semi-friable to tightly cem,  
no show

SS - lt gr, fn grained, slt mica,  
semi-friable, no show

SS - lt gr-wht, fn grained, slt mica,  
semi-friable



Sh - lt-dk gr, silty

SS - lt gr, fn grained, mod sort, semi-friable, no show

10 50 100 500

Lansing  
3627 (-2017)

LS - tan-brn-gr, fn xtln, dense to chalky, no vis por

Vis 48  
Wt. 9.2

LS - lt-dk gr, fn xtln, slt fos, dense

50

LS - gr-brn, fn xtln, dense

LS - lt gr-tan, fn xtln, fos, scat vug and int xtln por, no show

Mud pump out

3700

LS - gr-tan, fn xtln, dense

Vis 40  
Wt. 9.3

Sh - gr-blk

50

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

Sh - gr-blk

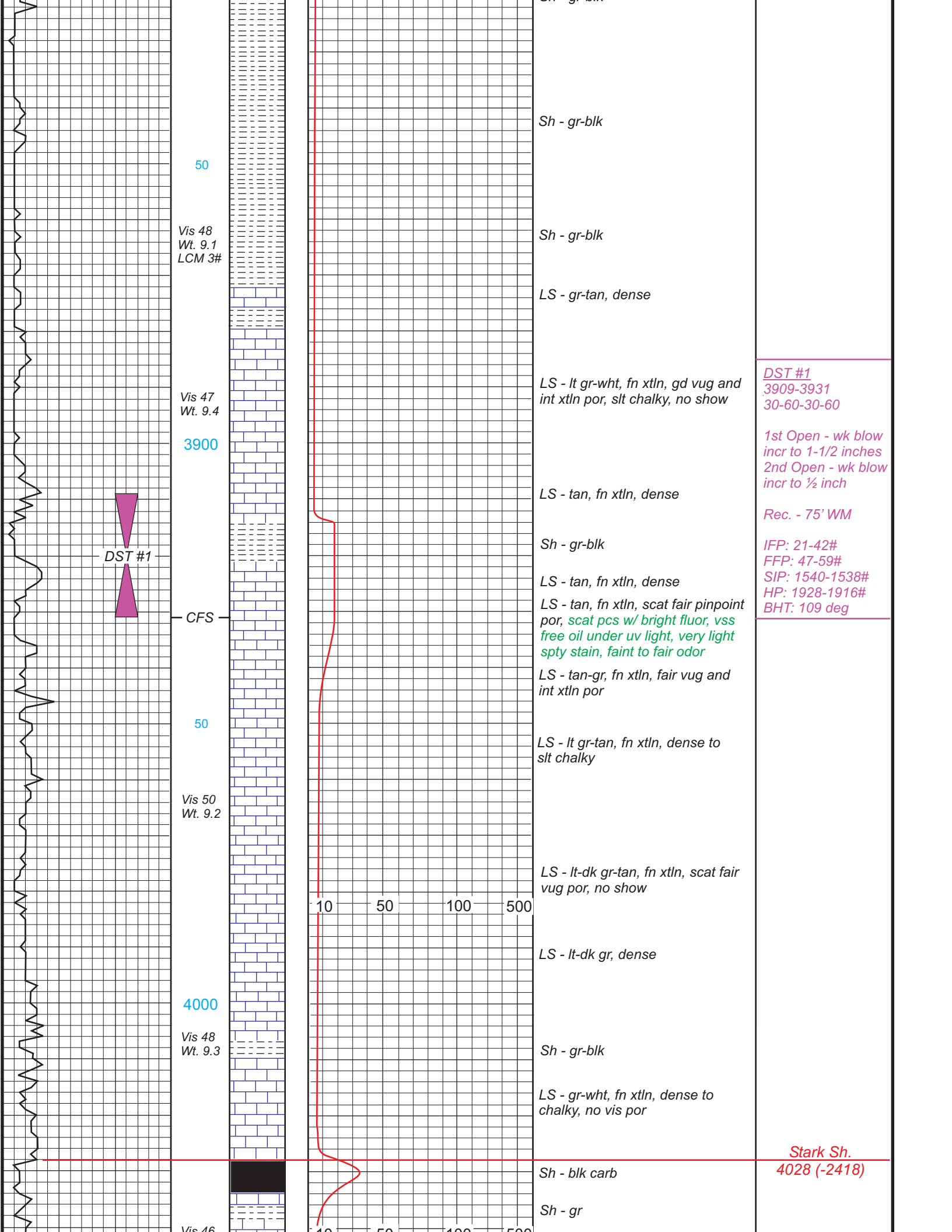
Vis 42  
Wt. 9.4

LS - dk gr-tan, fn xtln, dense

Sh - gr-blk

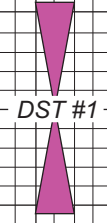
3800

Sh - gr-blk



50  
 Vis 48  
 Wt. 9.1  
 LCM 3#

Vis 47  
 Wt. 9.4  
 3900



CFS

50  
 Vis 50  
 Wt. 9.2

4000  
 Vis 48  
 Wt. 9.3

Vis 46

Sh - gr-blk

Sh - gr-blk

LS - gr-tan, dense

LS - lt gr-wht, fn xtln, gd vug and int xtln por, slt chalky, no show

LS - tan, fn xtln, dense

Sh - gr-blk

LS - tan, fn xtln, dense

LS - tan, fn xtln, scat fair pinpoint por, scat pcs w/ bright fluor, vss free oil under uv light, very light spty stain, faint to fair odor

LS - tan-gr, fn xtln, fair vug and int xtln por

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

LS - lt-dk gr-tan, fn xtln, scat fair vug por, no show

LS - lt-dk gr, dense

Sh - gr-blk

LS - gr-wht, fn xtln, dense to chalky, no vis por

Sh - blk carb

Sh - gr

DST #1  
 3909-3931  
 30-60-30-60

1st Open - wk blow  
 incr to 1-1/2 inches  
 2nd Open - wk blow  
 incr to 1/2 inch

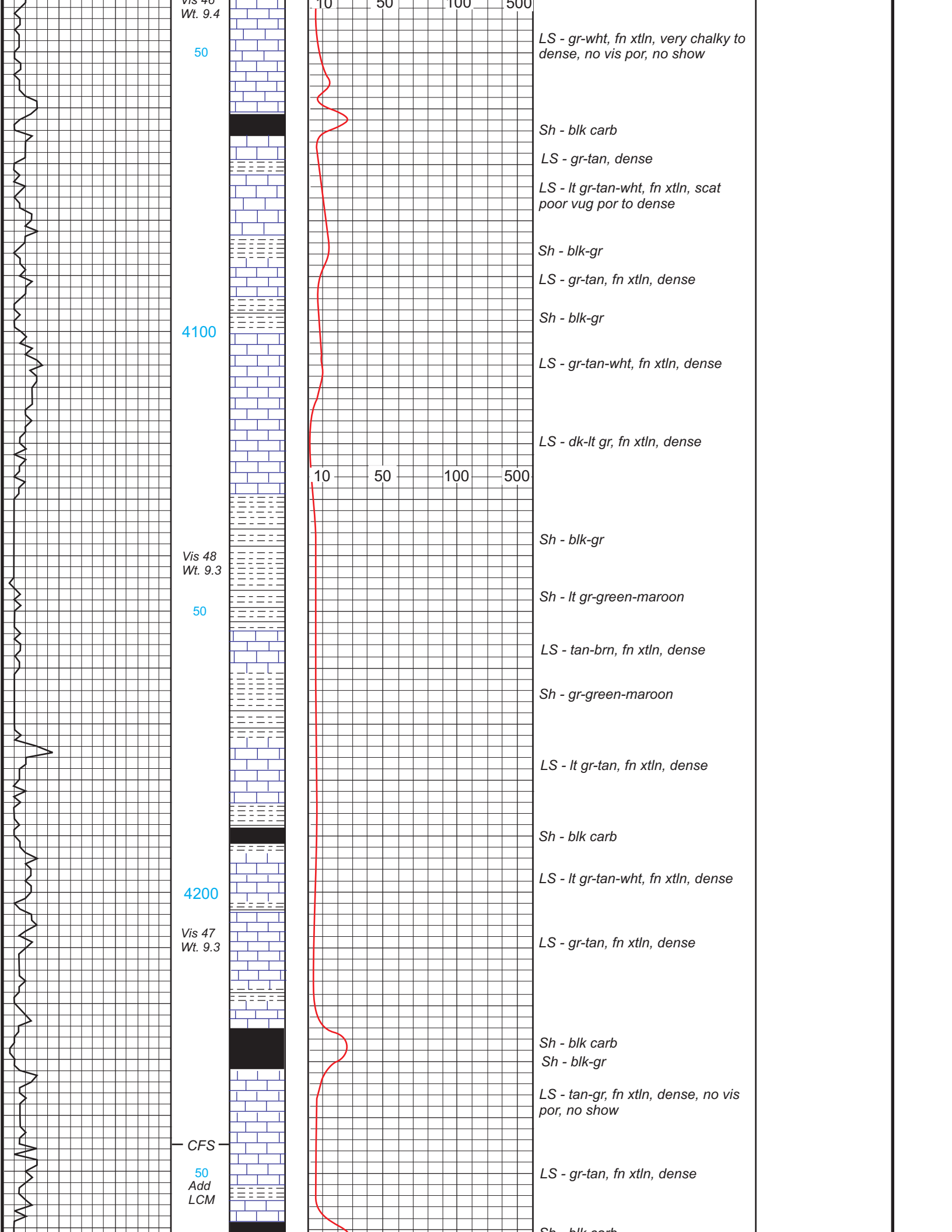
Rec. - 75' WM

IFP: 21-42#  
 FFP: 47-59#  
 SIP: 1540-1538#  
 HP: 1928-1916#  
 BHT: 109 deg

Stark Sh.  
 4028 (-2418)

10 50 100 500

10 50 100 500



Vis 48  
Wt. 9.4

50

LS - gr-wht, fn xtln, very chalky to dense, no vis por, no show

Sh - blk carb

LS - gr-tan, dense

LS - lt gr-tan-wht, fn xtln, scat poor vug por to dense

Sh - blk-gr

LS - gr-tan, fn xtln, dense

4100

Sh - blk-gr

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

LS - dk-lt gr, fn xtln, dense

10 50 100 500

Sh - blk-gr

Vis 48  
Wt. 9.3

50

Sh - lt gr-green-maroon

LS - tan-brn, fn xtln, dense

Sh - gr-green-maroon

LS - lt gr-tan, fn xtln, dense

Sh - blk carb

4200

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

Vis 47  
Wt. 9.3

LS - gr-tan, fn xtln, dense

Sh - blk carb

Sh - blk-gr

LS - tan-gr, fn xtln, dense, no vis por, no show

CFS

50  
Add  
LCM

LS - gr-tan, fn xtln, dense

Sh - blk carb

