

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Gulf Exploration, LLC
Well Name	HENRY 1-27
Doc ID	1408836

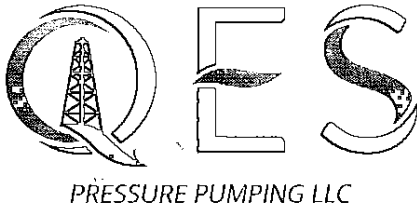
All Electric Logs Run

Dual Comp Porosity Log
Dual Induction Log
Microresistivity Log
Sonic Log

Form	ACO1 - Well Completion
Operator	Gulf Exploration, LLC
Well Name	HENRY 1-27
Doc ID	1408836

Tops

Name	Top	Datum
Stone Corral	2590	KB
Topeka	3930	KB
Heebner	4138	KB
Lansing	4152	KB
Marmanton Group	4458	KB
Pawnee	4530	KB
Cherokee Group	4645	KB
Mississippian	4745	KB



REMIT TO
 QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE
 P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice Invoice# 812711

Invoice Date: 03/26/18 Terms: Net 30 Page 1

GULF EXPLORATION, LLC
 9701 N Broadway Ext
 Oklahoma City OK 73114
 USA
 405-840-3371

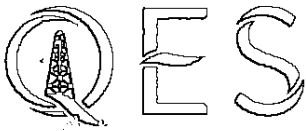
HENRY 1-27

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	30.000	805.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	30.000	150.15
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	30.000	462.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	225.000	24.0000	30.000	3,780.00
CC5326	Sodium Chloride, Salt	100.000	0.0000	0.000	0.00
CP8556	8 5/8" Centralizer	2.000	110.0000	30.000	154.00

Subtotal 7,644.50
 Discounted Amount 2,293.35
 SubTotal After Discount 5,351.15
 Amount Due 8,094.10 If paid after 04/25/18

Tax: 314.72
 Total: 5,665.87

MAR 28 2018



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

10275
10167

TICKET NUMBER 55055
LOCATION Chikley KS
FOREMAN Jerry V

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 812711 KC

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-21-08	3140	Henry 1-27	27	75	35W	Thomas
CUSTOMER		Gulf Exploration		Levant 4 mi th W into		
MAILING ADDRESS		9701 N. Broadway Exst.		TRUCK #	DRIVER	TRUCK #
CITY		STATE	ZIP CODE	7310	PD W	
Oklahoma City		OK	73114	5760	Walt D	
				535		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 305 CASING SIZE & WEIGHT 8 5/8 25 #
CASING DEPTH 303 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 15.2 SLURRY VOL 1.24 WATER gal/sk _____ CEMENT LEFT in CASING 20'
DISPLACEMENT 18661 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on 8/21 upon Martin 7 centralizers on casing mix 225 sks cement 3% KCC 2% gel wash up displacer with 18,661 fresh water + 540 gal in calculated approx 3661 to put

cement did
circulate
Thank you
Jerry V

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	30	MILEAGE	7.15	214.50
CE0711	10.58	van mileage delivery (min)	66.00	660.00
CE5871	22.5 sks	Surface blend II	24.00	540.00
CE5326	100 #	Self	NC	NC
CP8556	2	Centralizers	110.00	220.00
			Subtotal	7644.50
			-30%	2293.35
			Subtotal	5351.15

SALES TAX 314.72
ESTIMATE TOTAL 5665.87

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DUAL COMP POROSITY LOG

Pioneer Energy Services

Company **GULF EXPLORATION, LLC**
 Well **HENRY #1-27**
 Field **UNNAMED**
 County **THOMAS** State **KANSAS**

Company **GULF EXPLORATION, LLC**
 Well **HENRY #1-27**
 Field **UNNAMED**
 County **THOMAS**
 State **KANSAS**

Location: **API #: 15-193-21011-00-00**
1622' FSL & 1256' FEL
SEC 27 TWP 7S RGE 35W
 Permanent Datum **GROUND LEVEL Elevation 3213'**
 Log Measured From **KELLY BUSHING**
 Drilling Measured From **KELLY BUSHING**
 Other Services **DIL/MEL BHCs**

Date	3/28/2018						
Run Number	ONE						
Type Log	CNL/CDL						
Depth Driller	4806'						
Depth Logger	4810'						
Bottom Logged Interval	4781'						
Top Logged Interval	2000'						
Type Fluid In Hole	CHEMICAL						
Salinity, PPM CL	2900						
Density	9.2						
Level	FULL						
Max. Rec. Temp. F	124						
Operating Rig Time	5 HOURS						
Equipment -- Location	91 HAYS						
Recorded By	D. SCHMIDT						
Witnessed By	KEITH REAVIS						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	305'	8.625"	23#	0'	305'
TWO	7.875"	305'					
Casing Record							

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

LEVANT,
 2 NORTH ON RD 11 FROM THE RR TRACKS,
 WEST INTO NORTH OF FARMHOUSE

Log Measured From: **KELLY BUSHING** 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

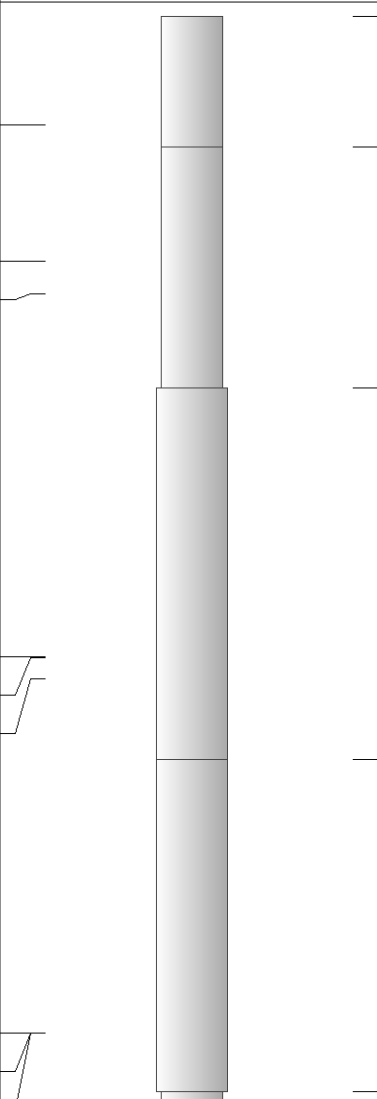
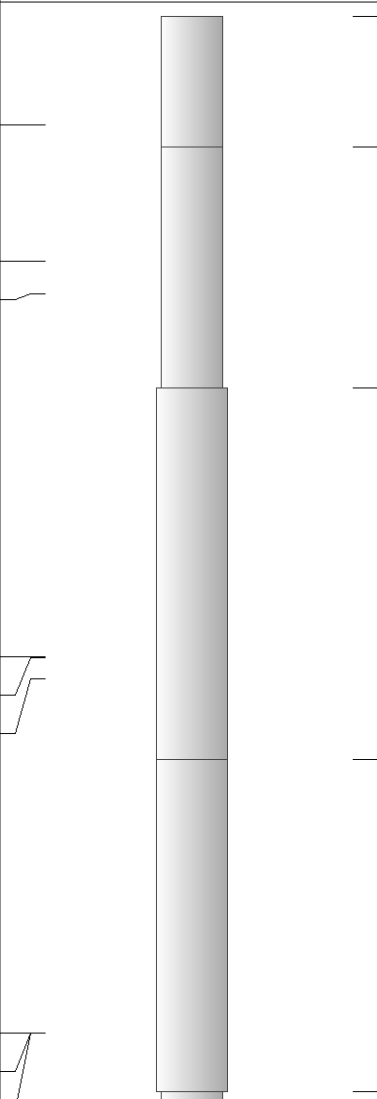
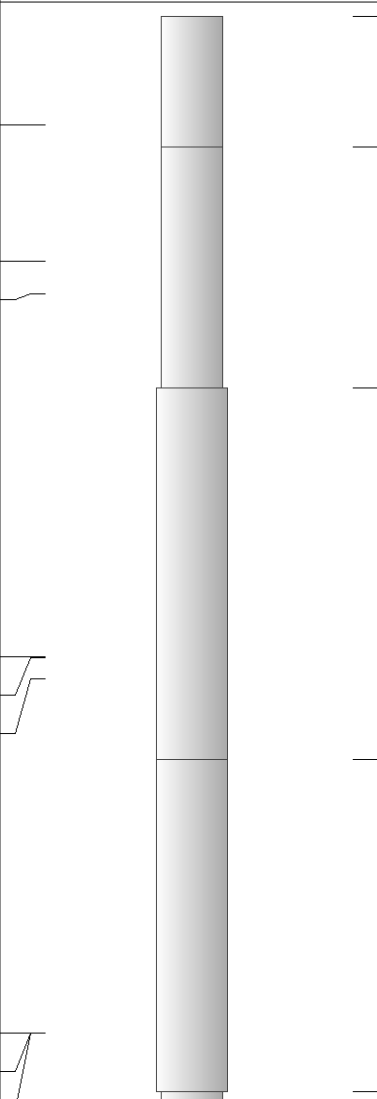
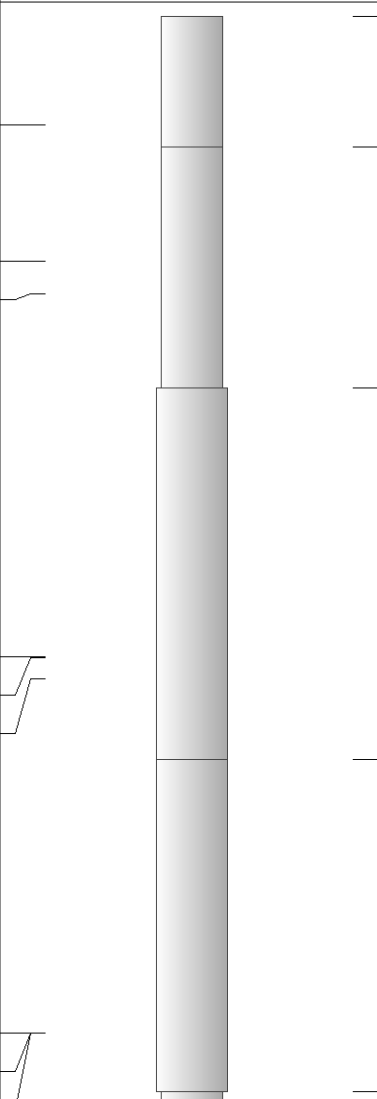
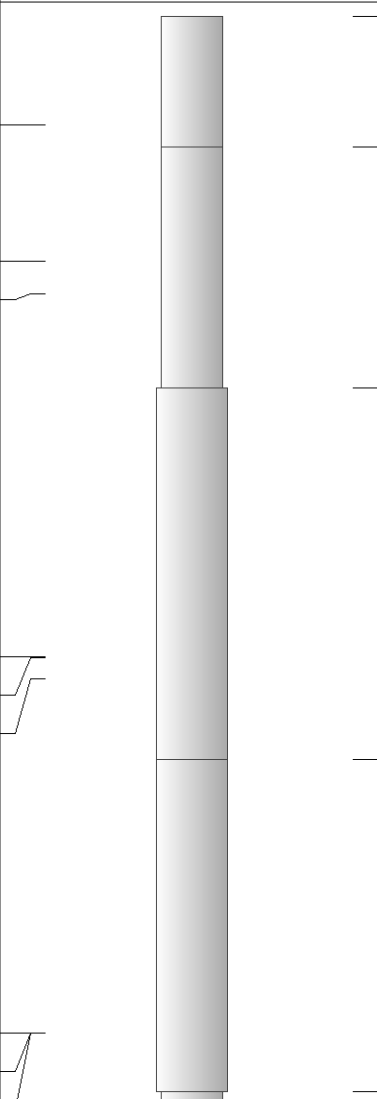
Engineer: **D. SCHMIDT**
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: **KEITH REAVIS**
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-144	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	4611	124	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (182-152)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD 8.00

CILM 4.70

SP 0.20

DIL-PSI HIGH TEMP (933 (HT))

18.50

3.50

220.00

Dataset: gulf_henry 1-27.db: field/well/STKML/pass3.9
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MAIN PASS

Database File gulf_henry 1-27.db
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 Presentation Format cdl
 Dataset Creation Wed Mar 28 05:08:37 2018
 Charted by Depth in Feet scaled 1:600

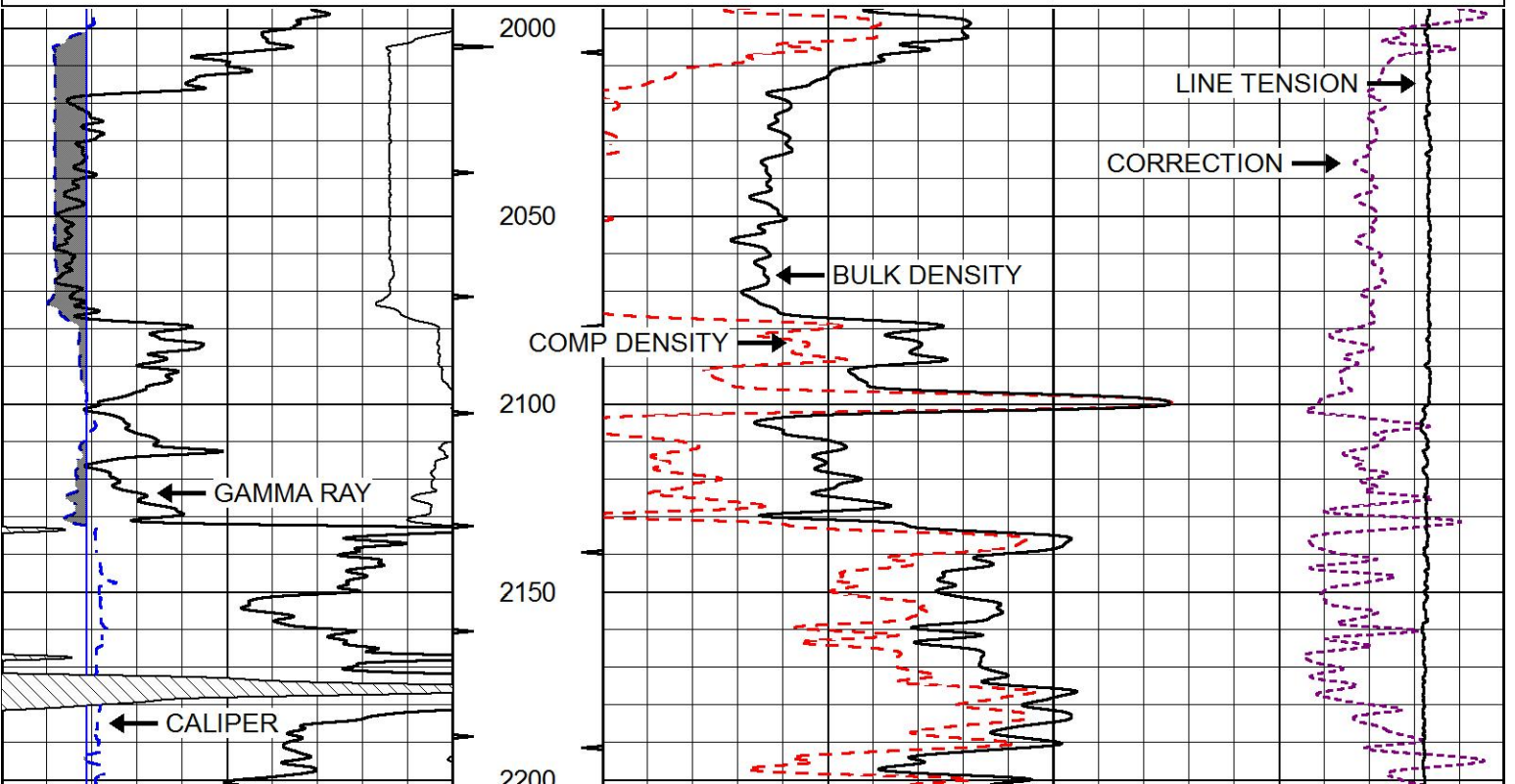
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6	Caliper (in)	16

Compensated Density (2.71 MA)	
30	(pu) -10

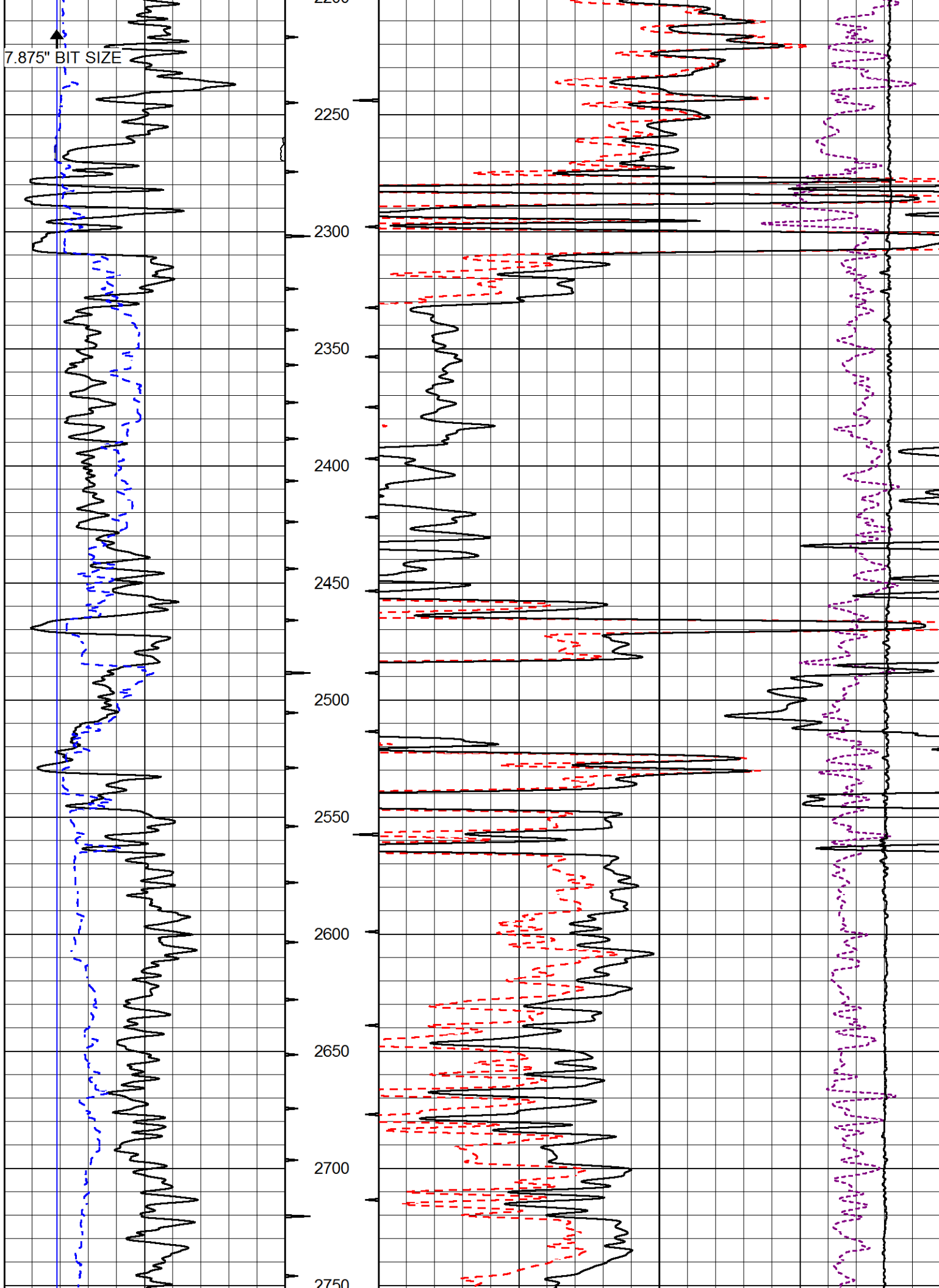
2	Bulk Density (g/cc) 3

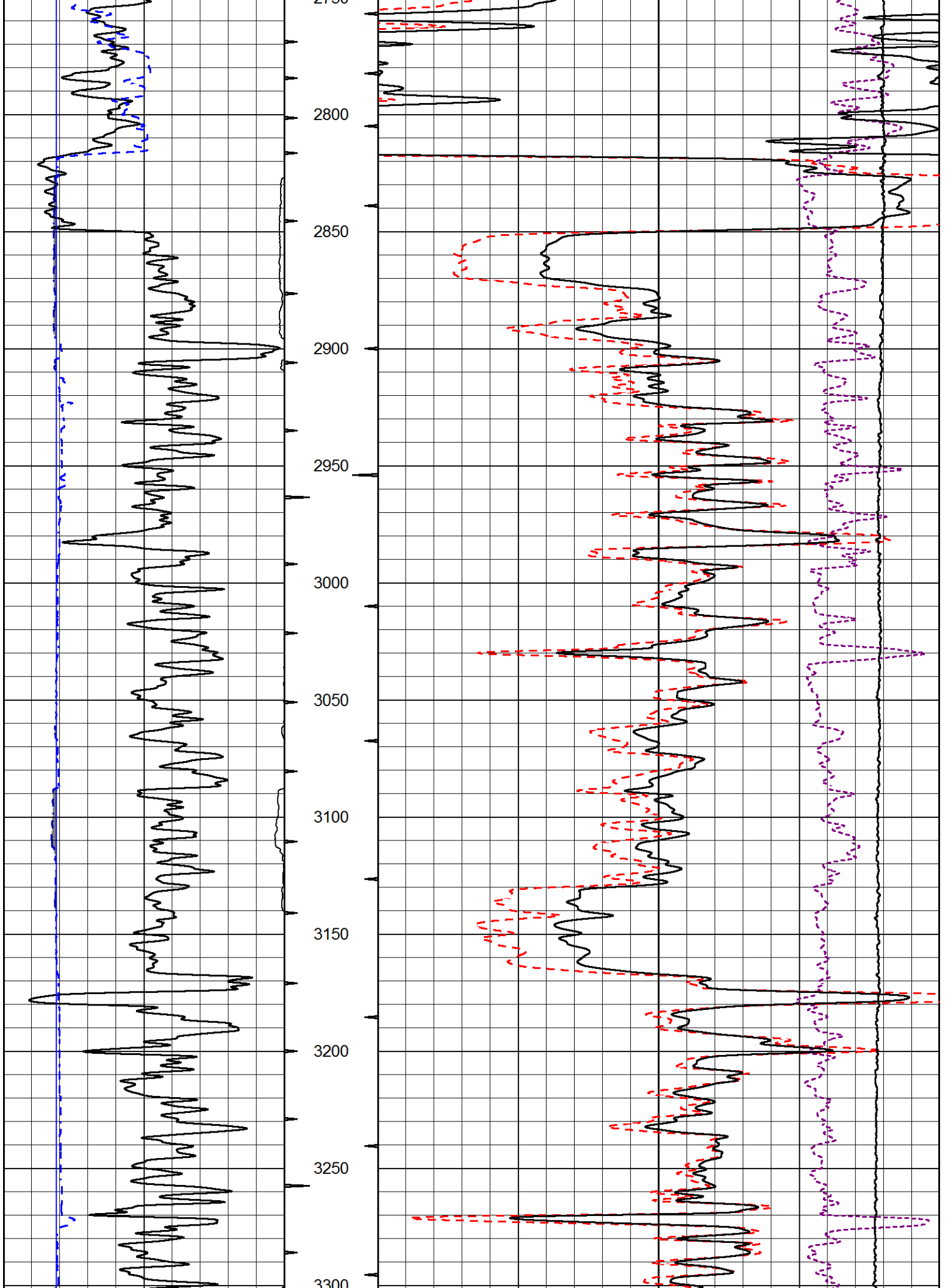
15000	Line Tension (lb) 0

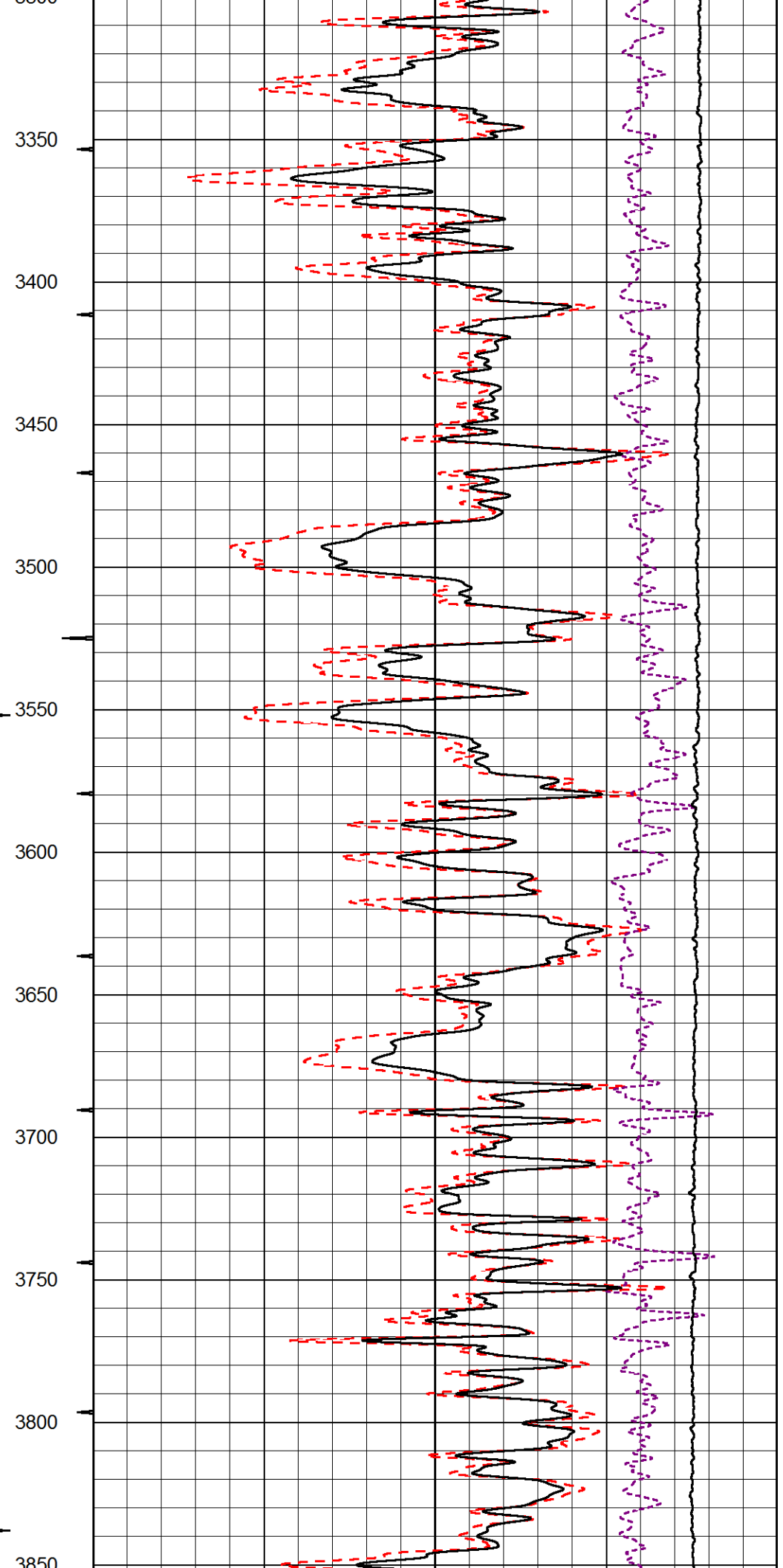
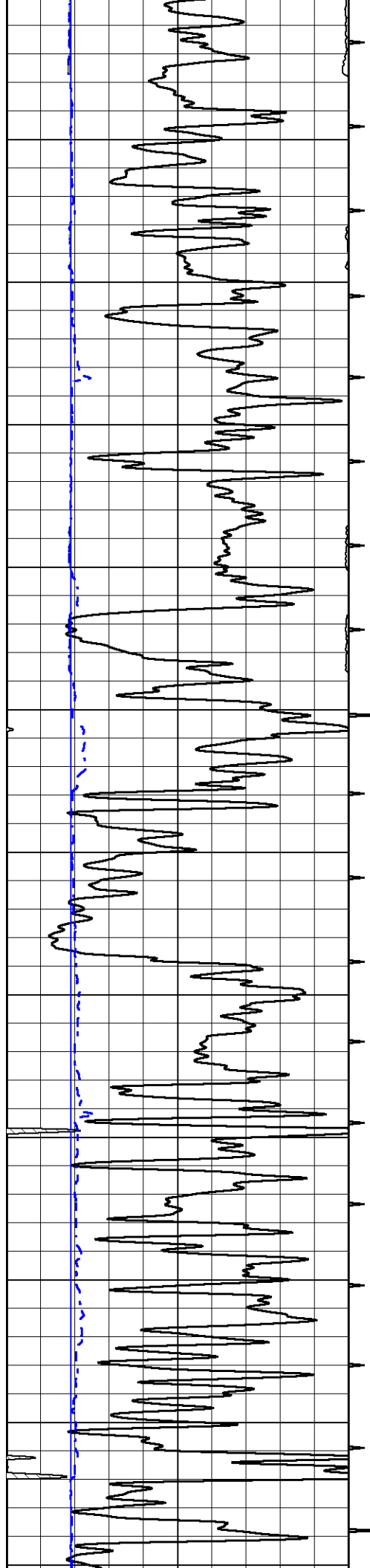
-0.25	Correction (g/cc) 0.25

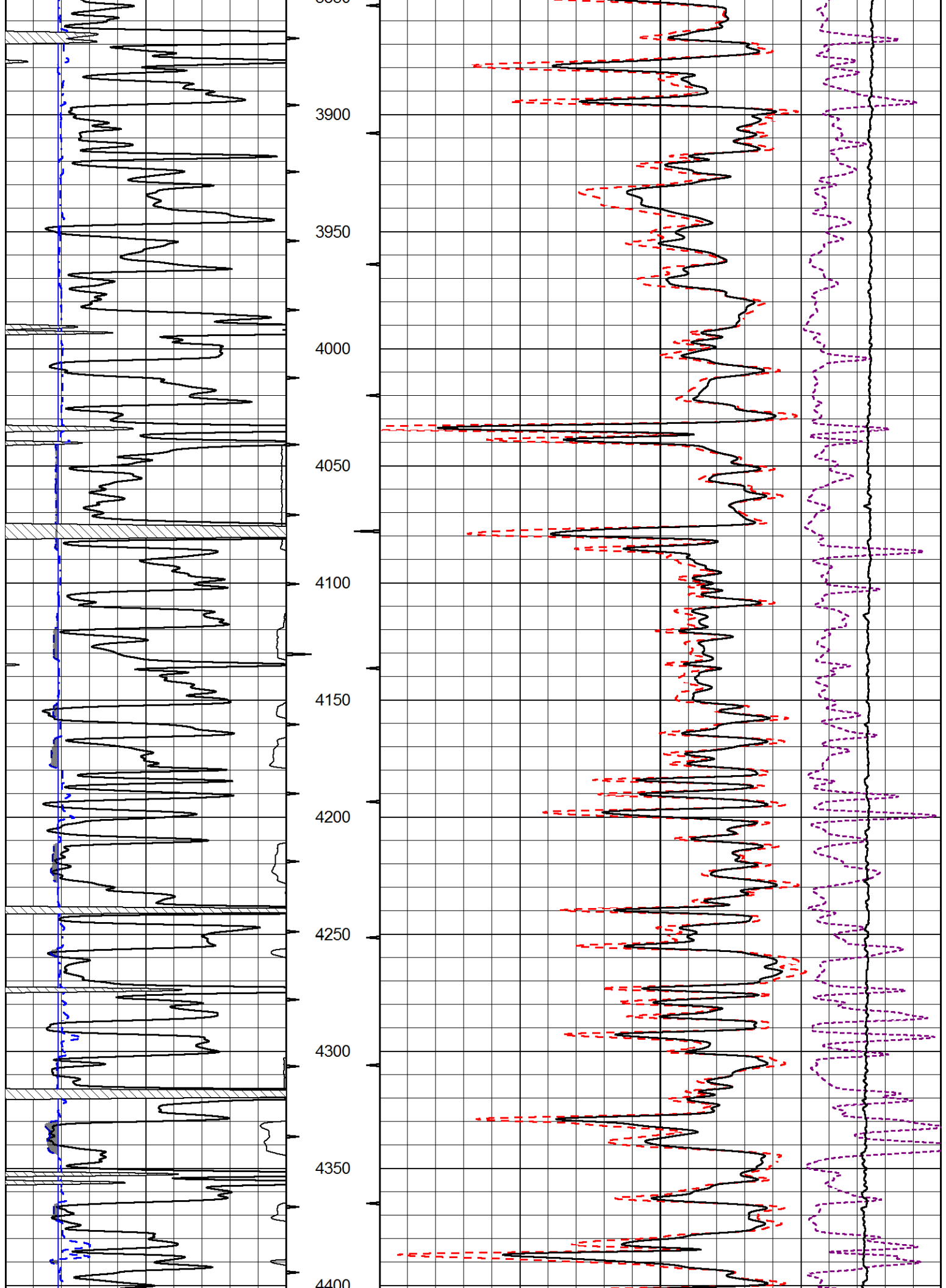


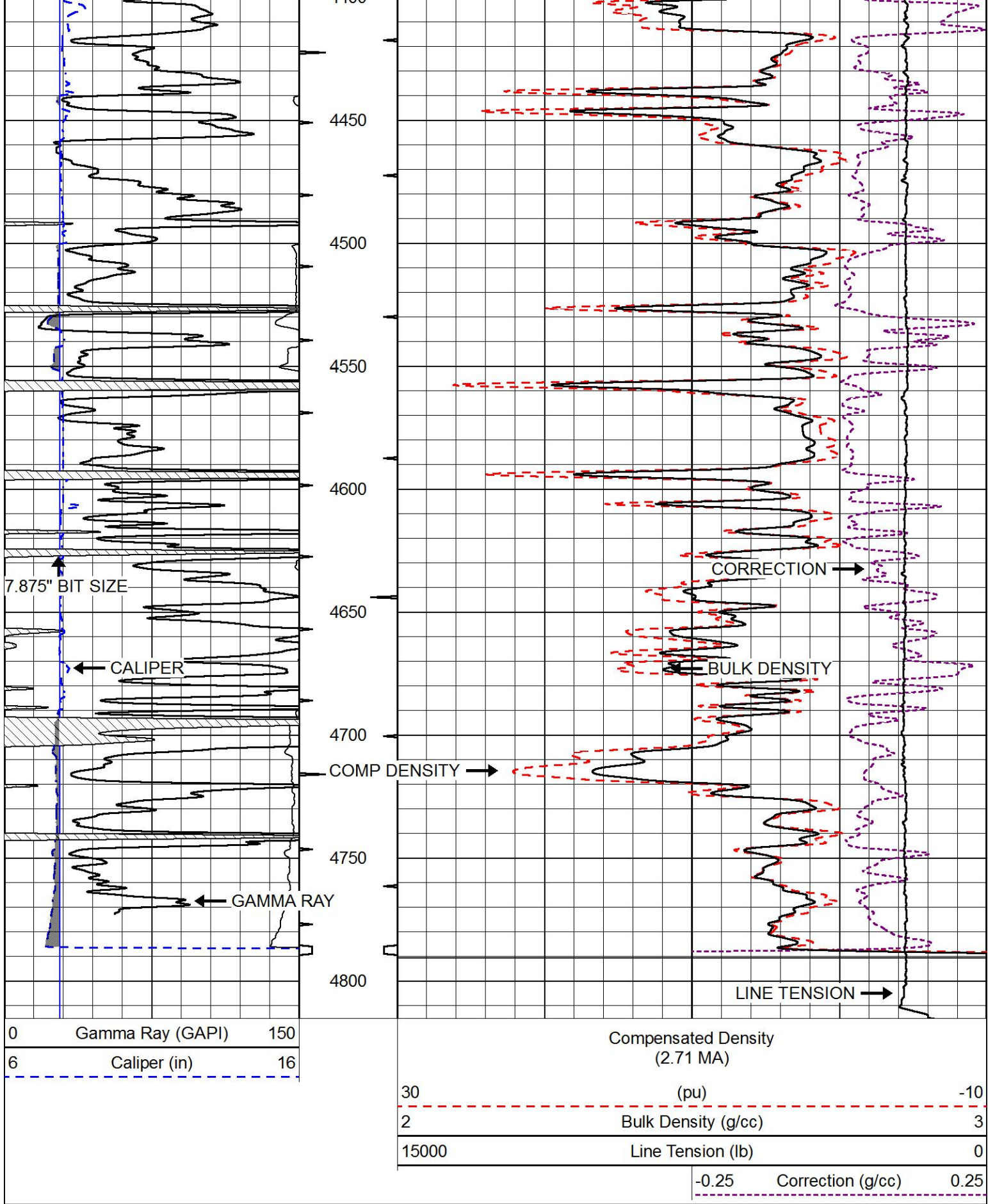
7.875" BIT SIZE







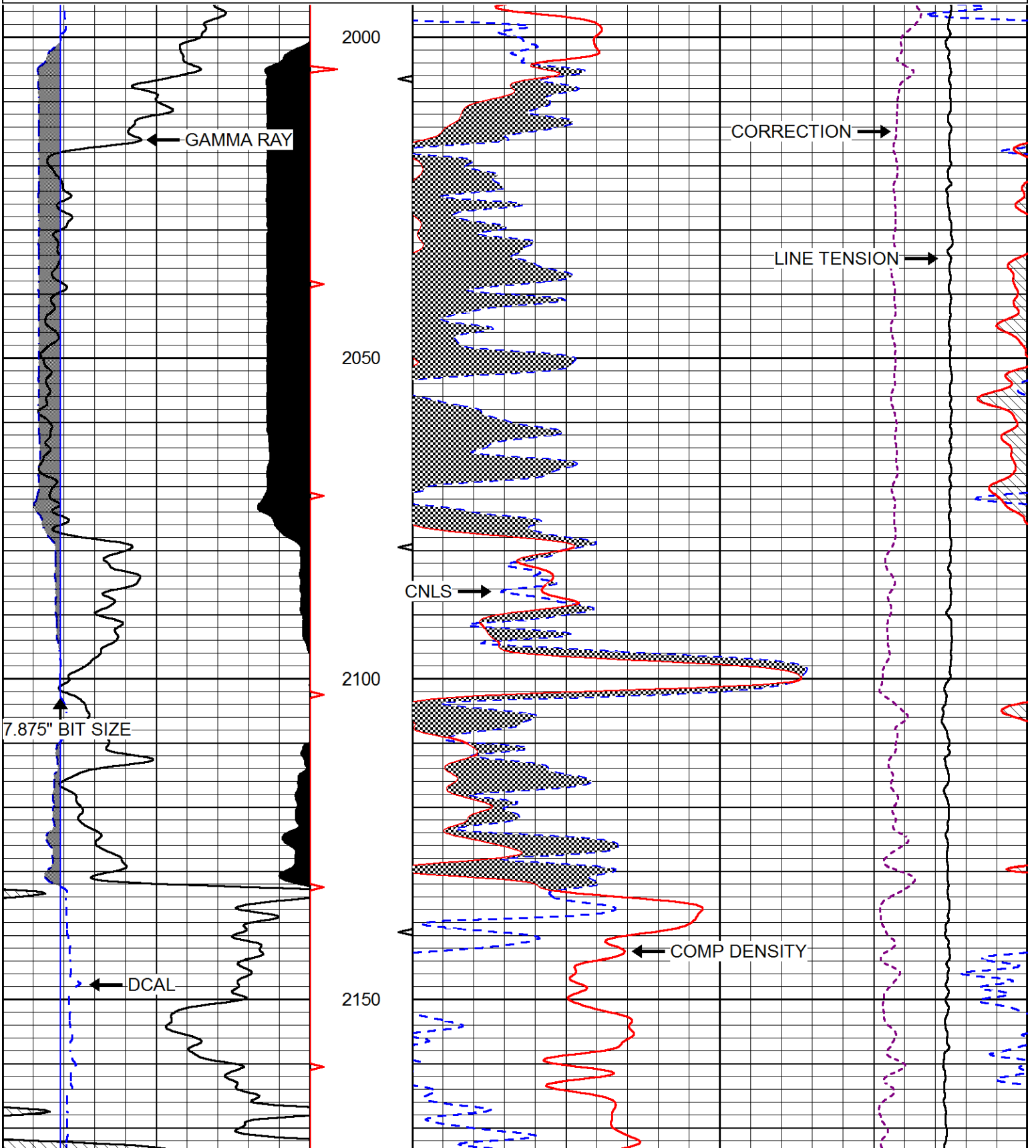


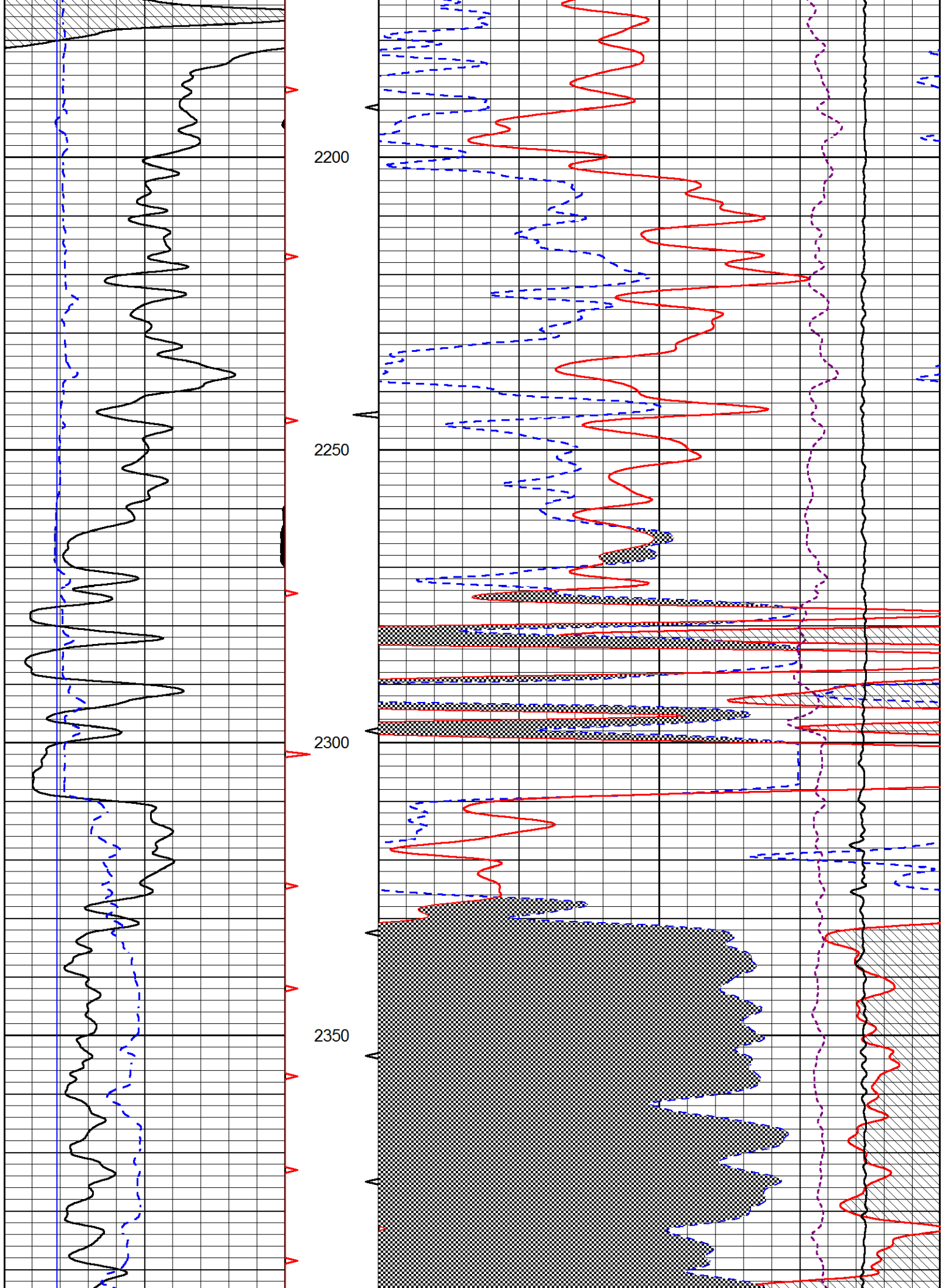


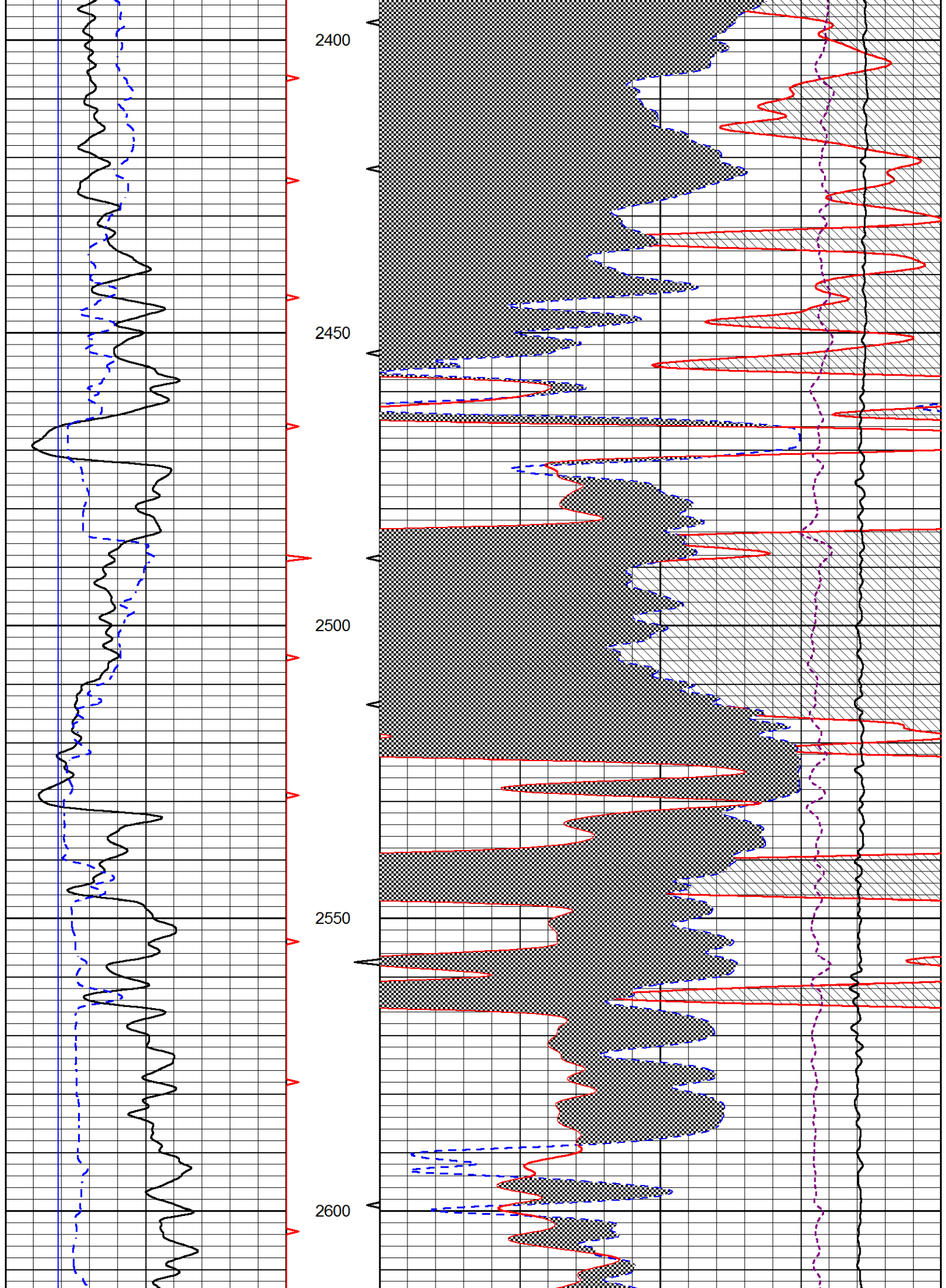
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 Dataset Creation Wed Mar 28 05:08:37 2018
 Charted by Depth in Feet scaled 1:240

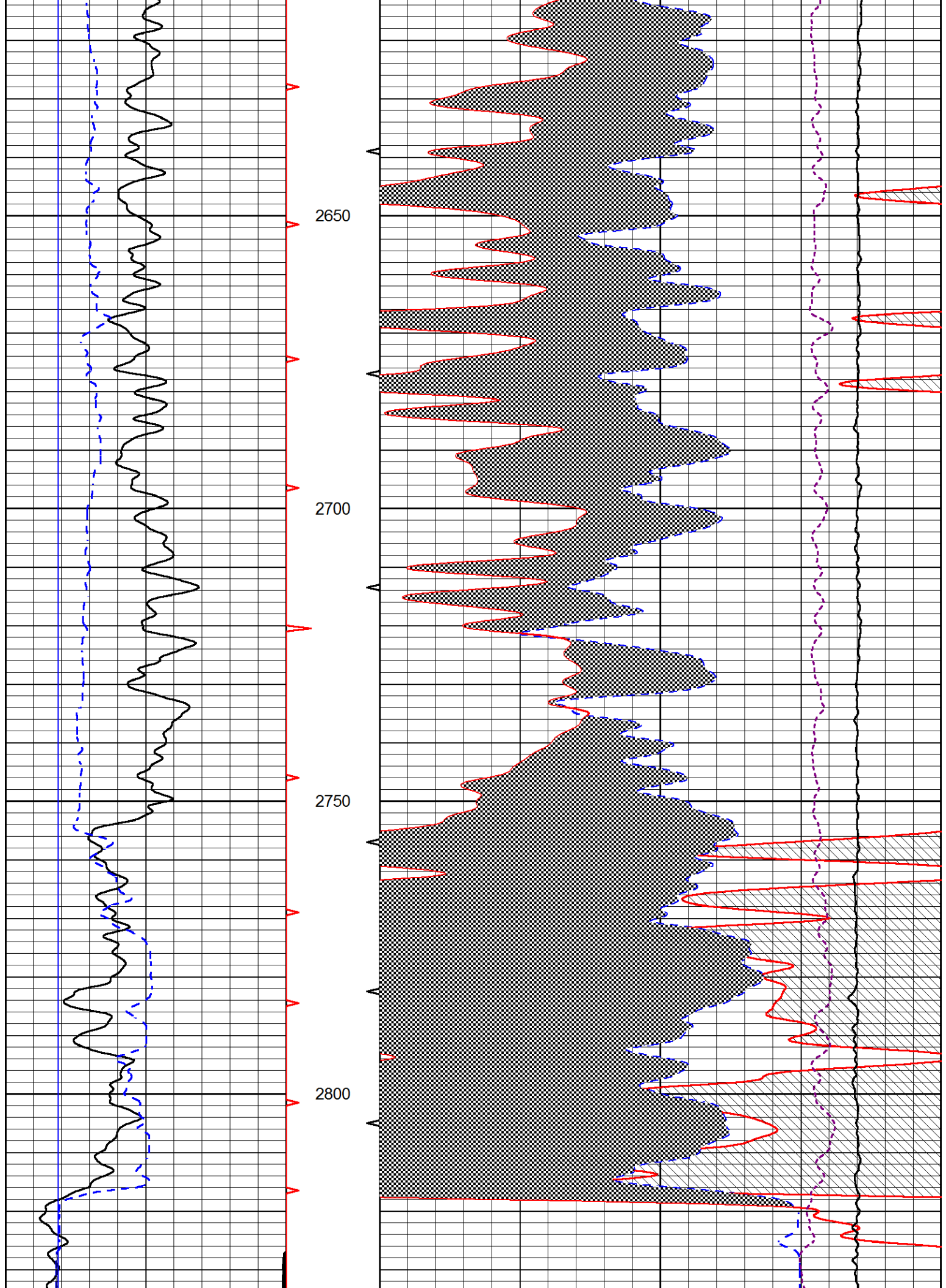
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6	DCAL (in)	16

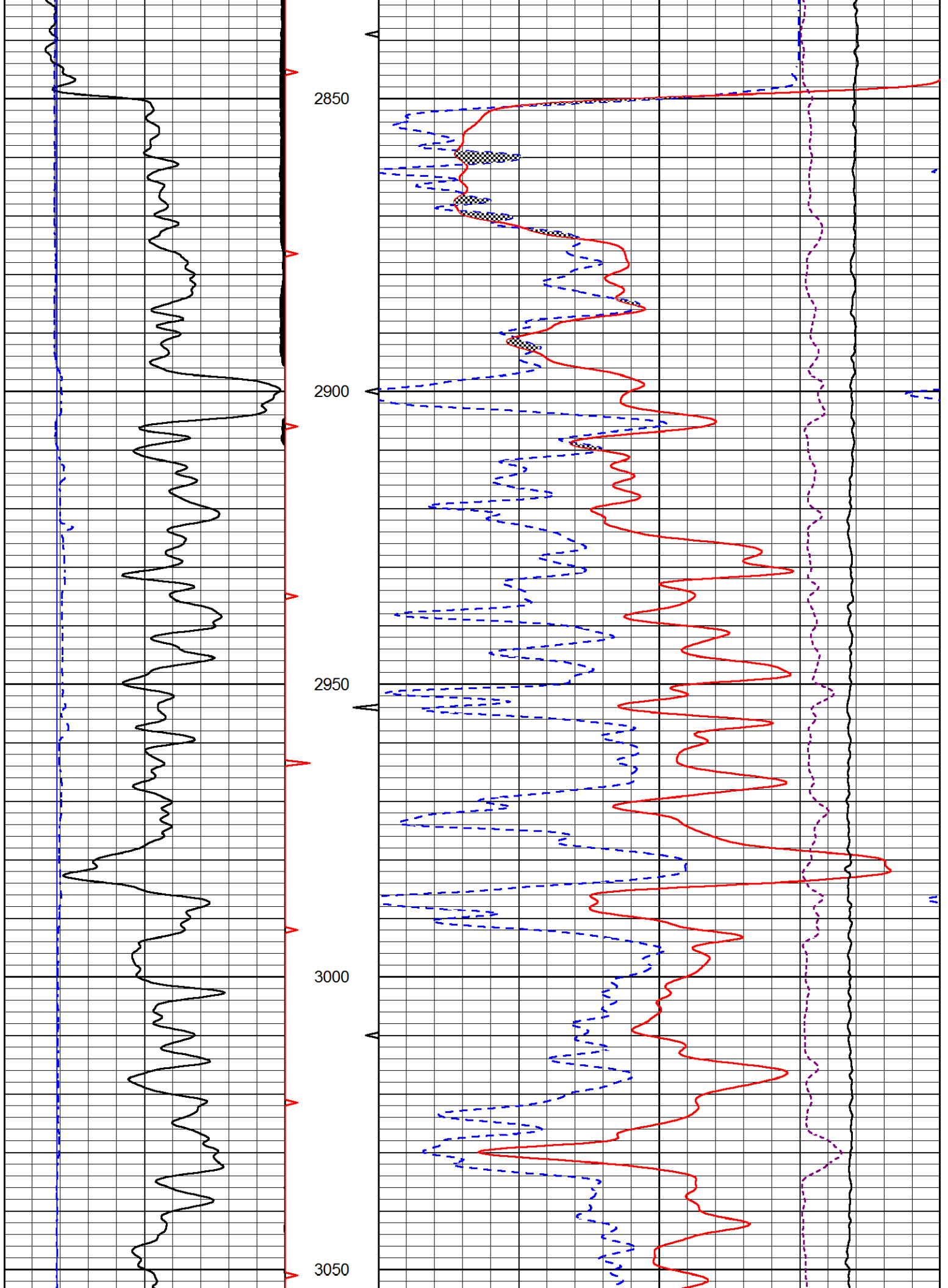
30	CNLS (pu)	-10
30	Compensated Density 2.71g/cc (pu)	-10
10000	Line Tension (lb)	0
-0.75	Correction (g/cc)	0.75

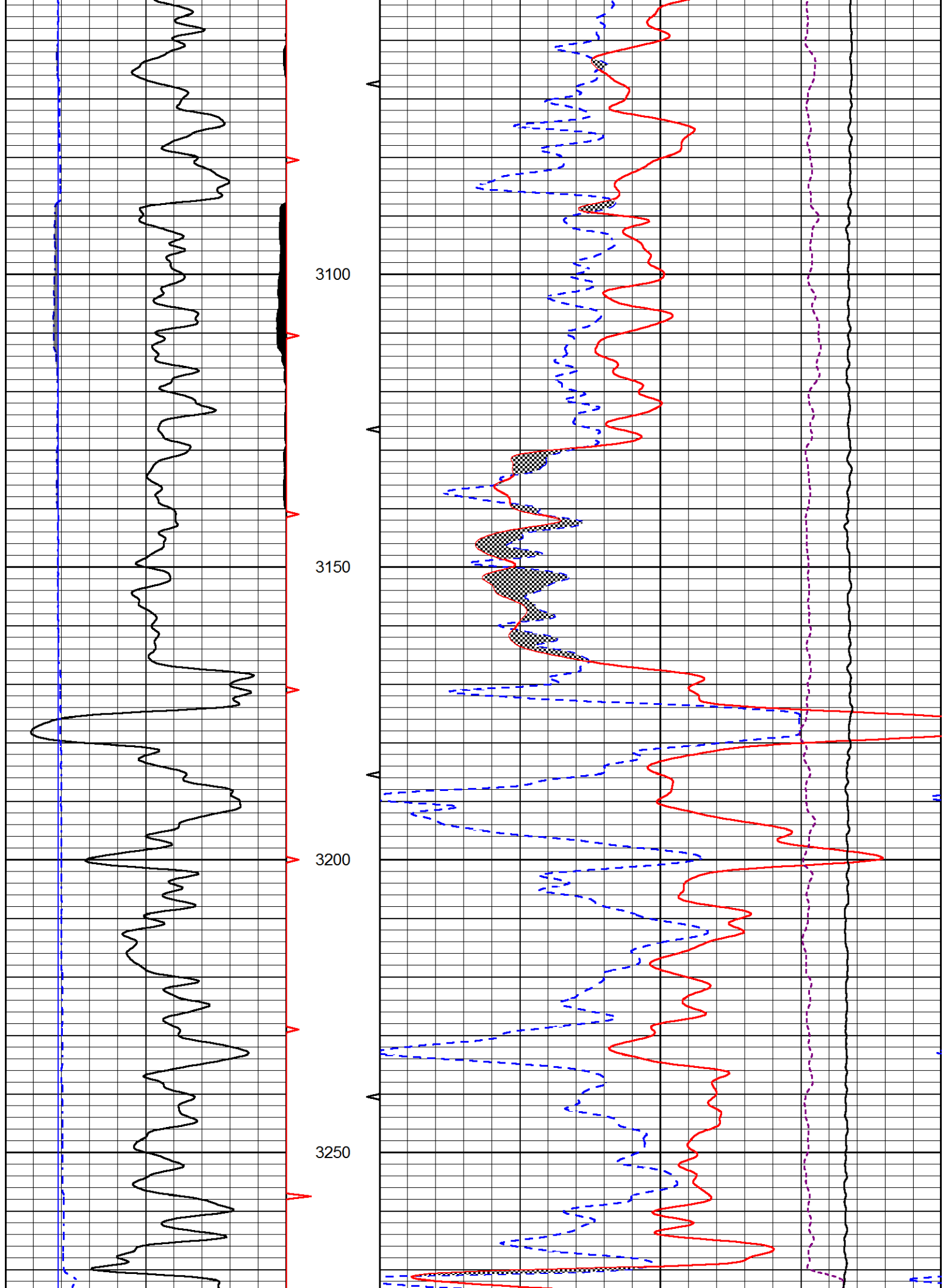


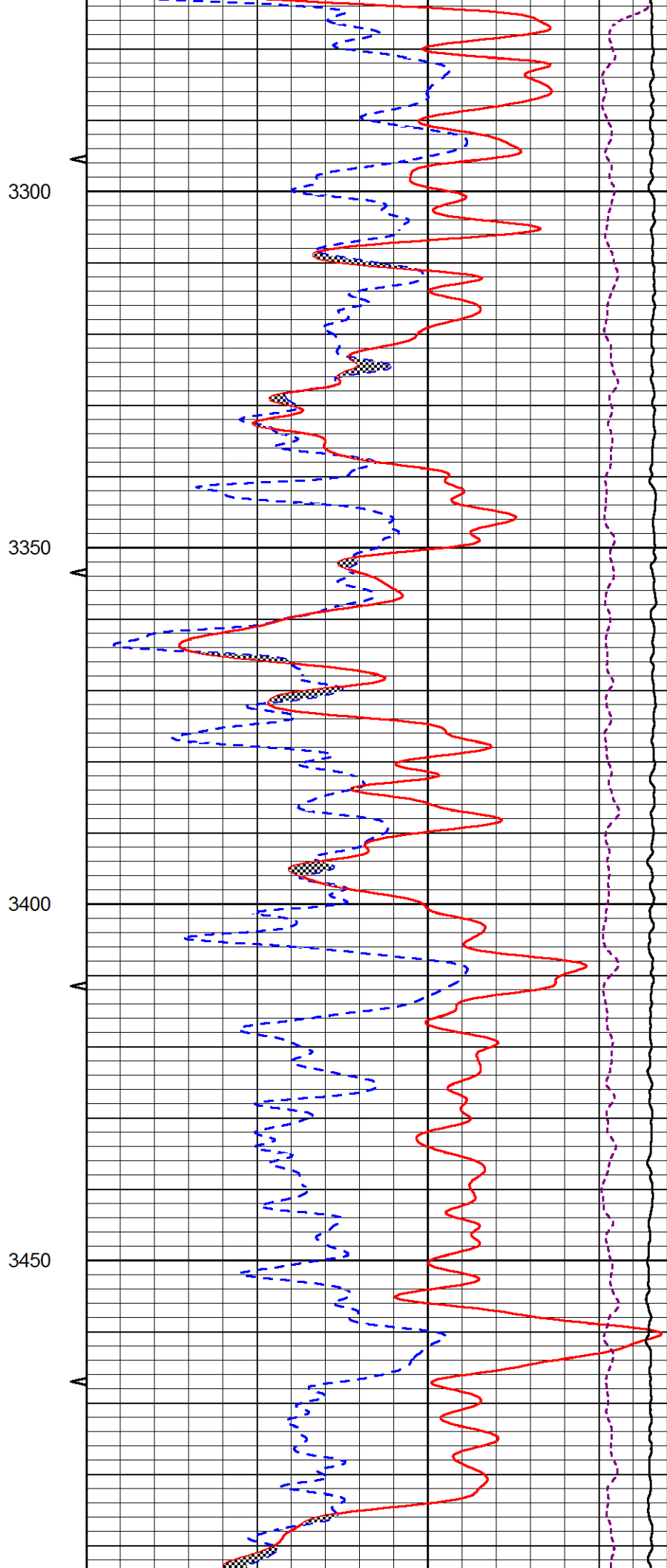
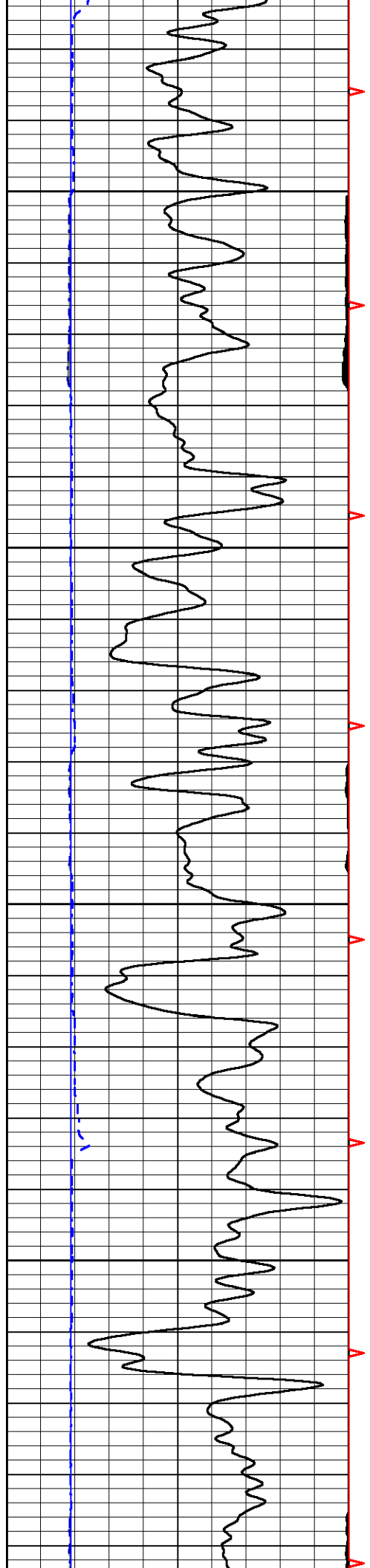


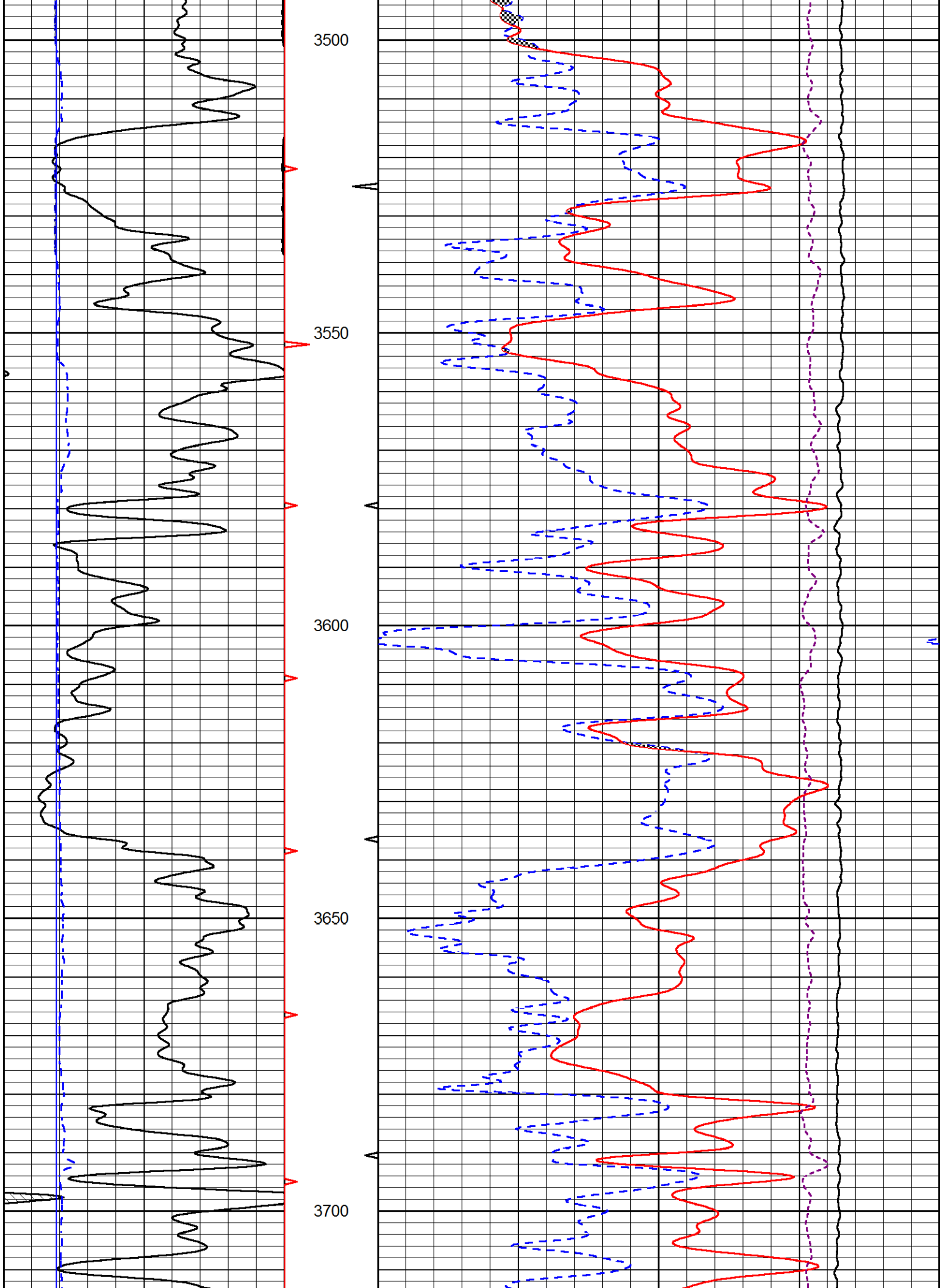


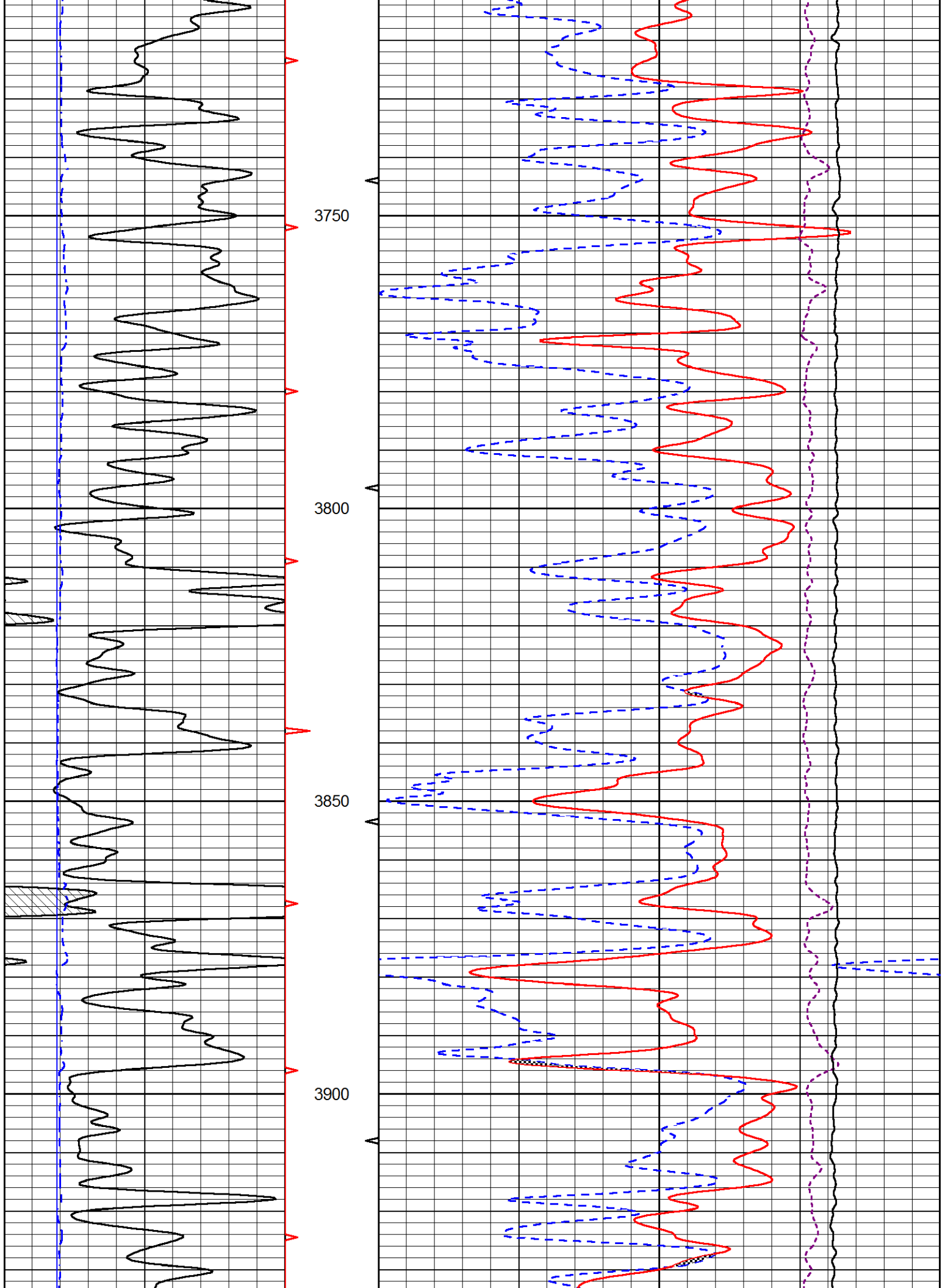


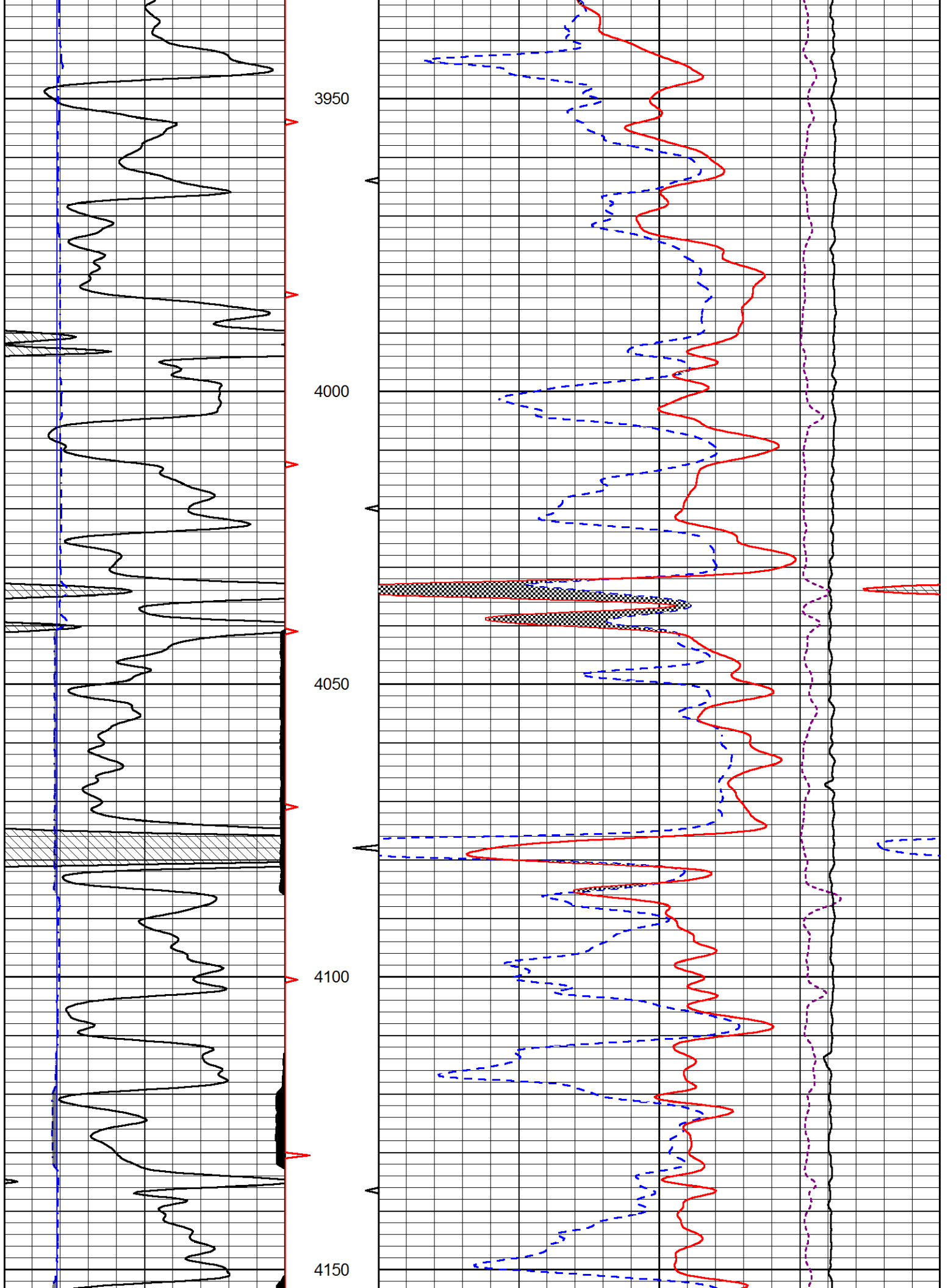


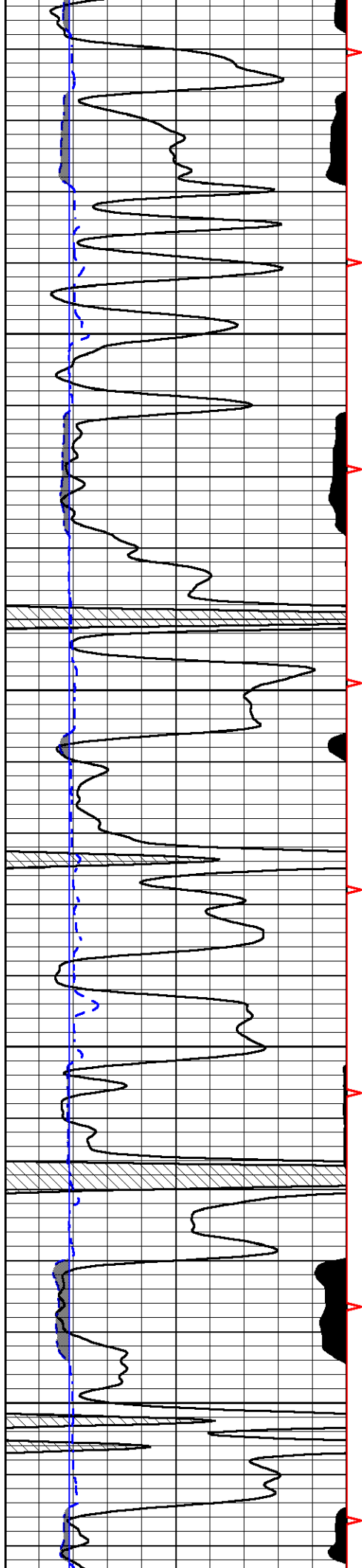










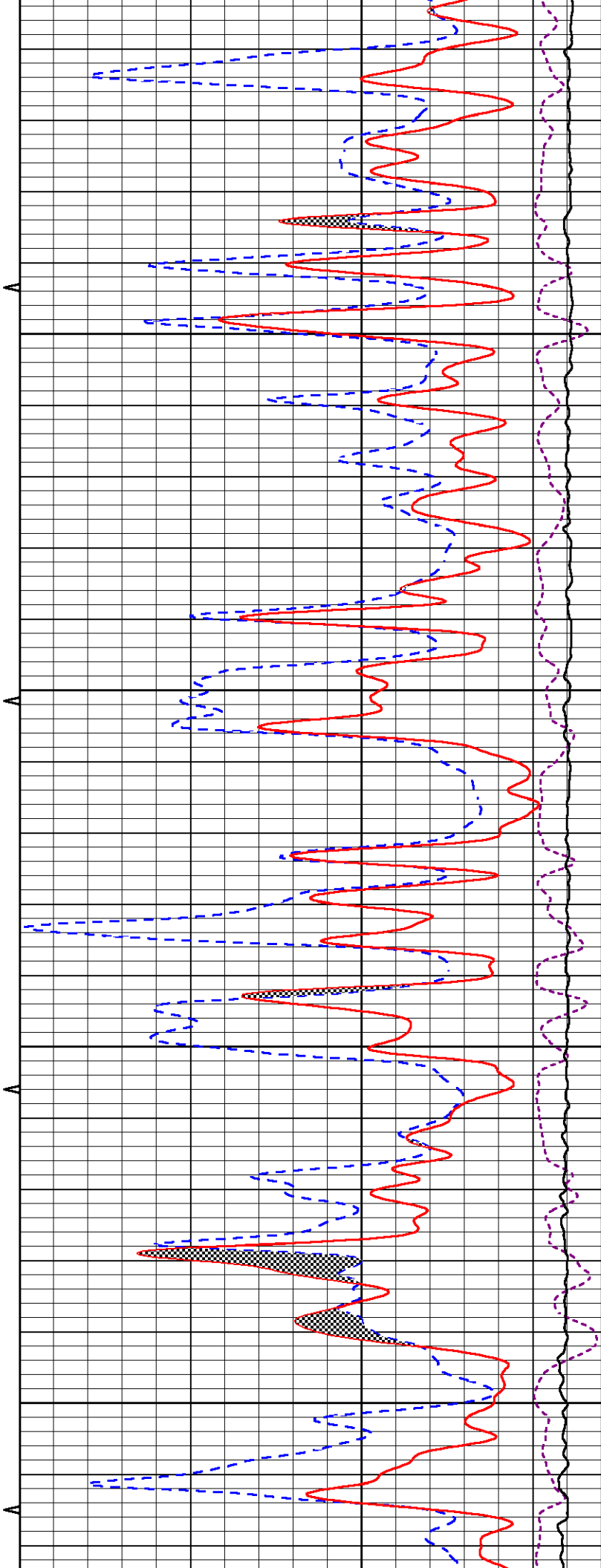


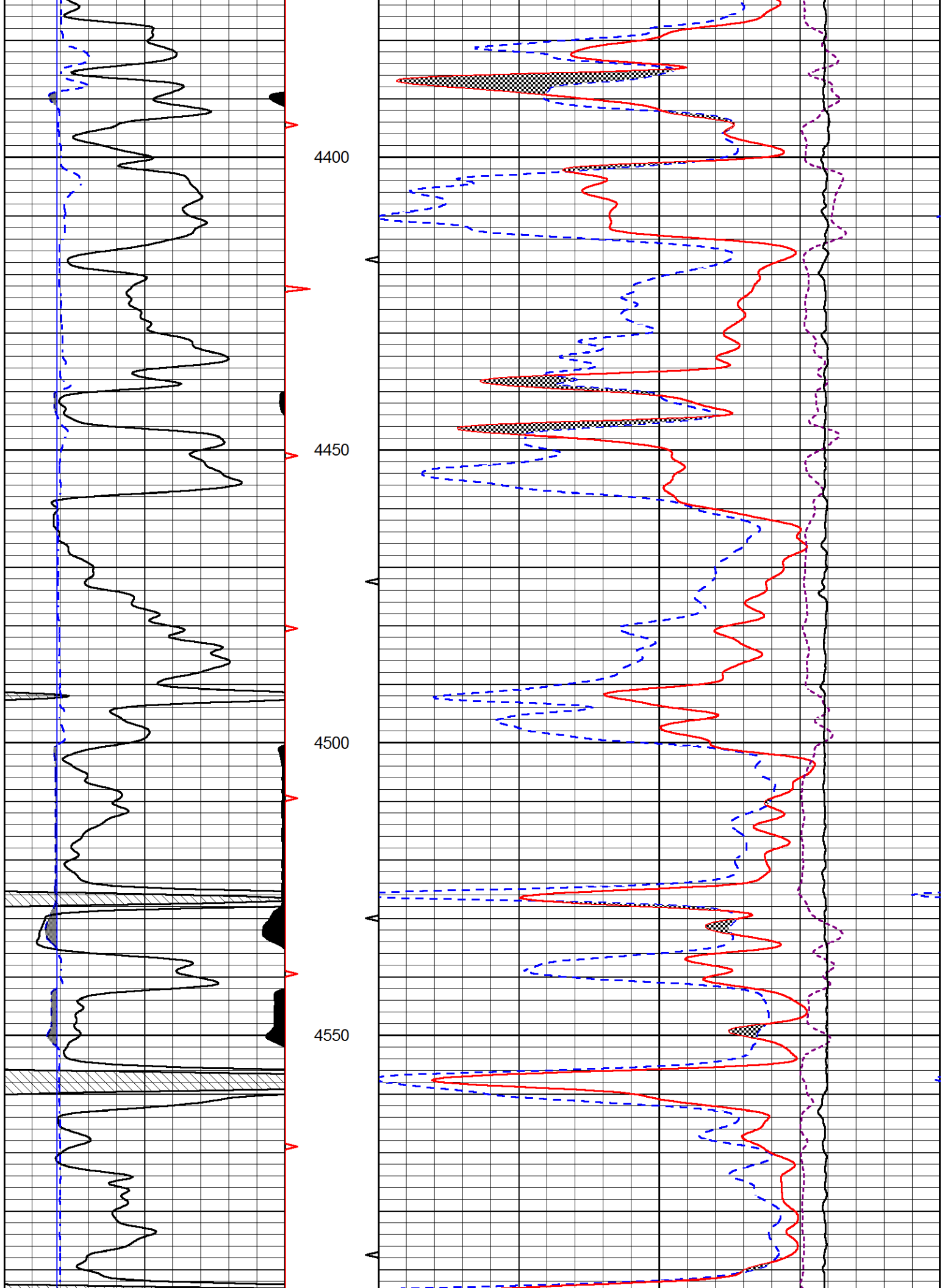
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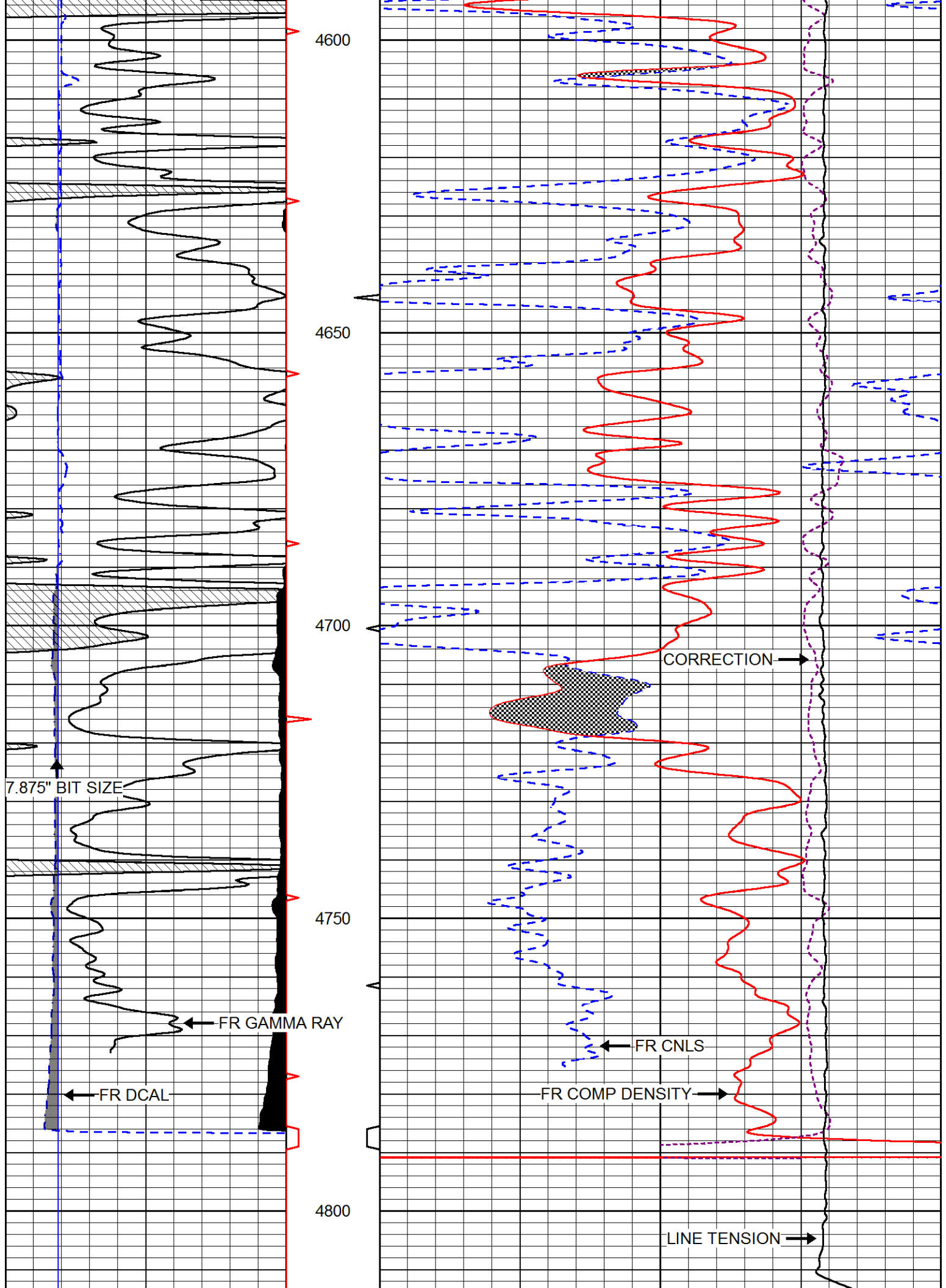
4250

4300

4350







0	Gamma Ray (GAPI)	150
6	DCAL (in)	16

30	CNLS (pu)	-10
30	Compensated Density 2.71g/cc (pu)	-10
10000	Line Tension (lb)	0
	-0.75 Correction (g/cc)	0.75

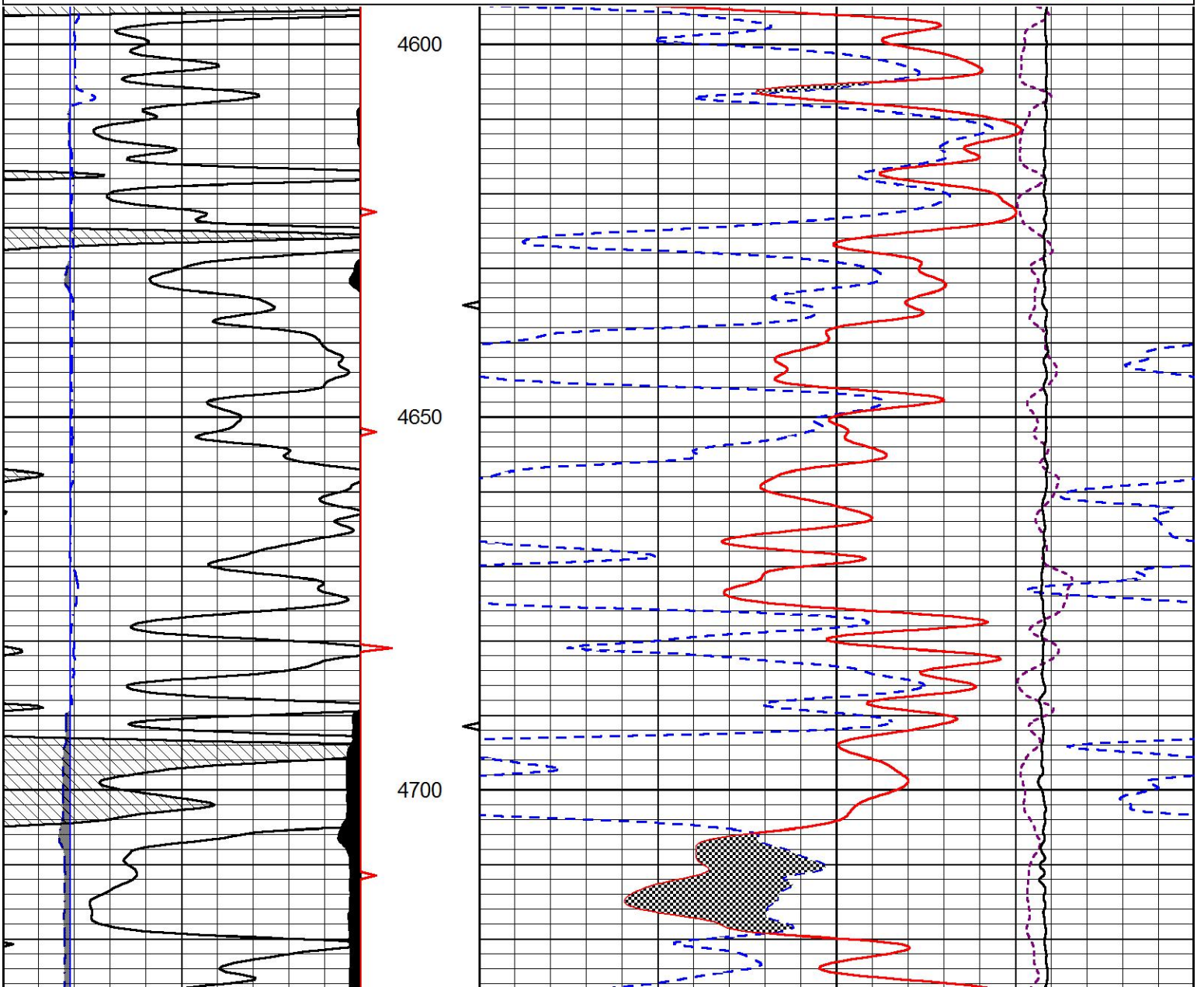


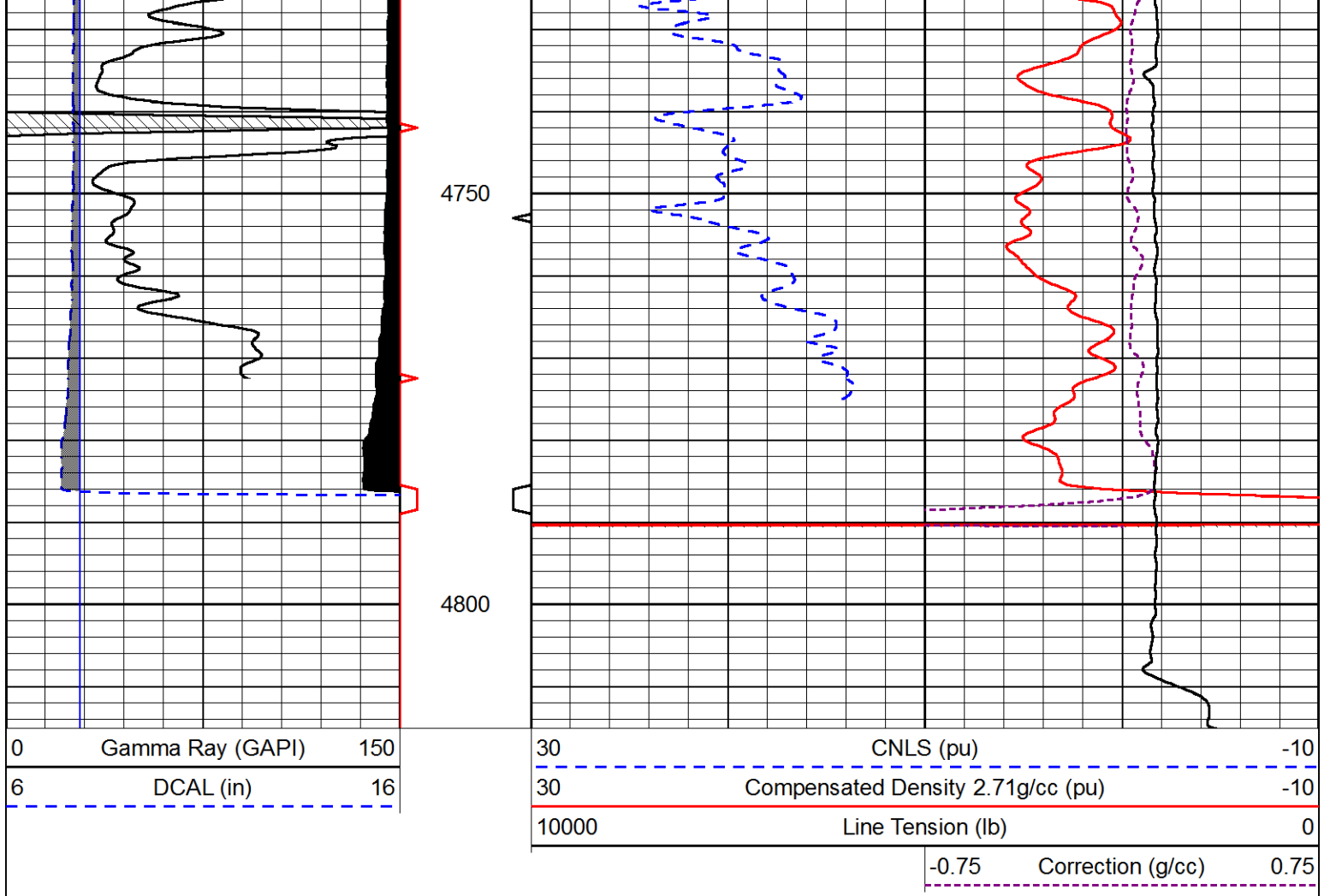
REPEAT SECTION

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 Presentation Format cndlspec
 Dataset Creation Wed Mar 28 05:01:19 2018
 Charted by Depth in Feet scaled 1:240

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6	DCAL (in)	16

30	CNLS (pu)	-10
30	Compensated Density 2.71g/cc (pu)	-10
10000	Line Tension (lb)	0
	-0.75 Correction (g/cc)	0.75





Calibration Report

Database File: gulf_henry 1-27.db
 Dataset Pathname: STKML/pass3.9
 Dataset Creation: Wed Mar 28 05:08:37 2018

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
 Calibration Performed: Sun Feb 18 17:32:17 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.710	-20.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.550	-61.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Sun Mar 18 23:48:42 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal	Ohm-m	m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	28500.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.9000

Compensated Density Calibration Report

Serial-Model: 182-152-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Wed Mar 28 03:05:33 2018

Master Calibration

	<u>Density</u>		<u>Far Detector</u>	<u>Near Detector</u>	
Magnesium	1.755	g/cc	4992.81	6098.44	cps
Aluminum	2.672	g/cc	945.67	3945.60	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.533		
	<u>Size</u>		<u>Reading</u>		
Small Ring	4.50	in	1.09		
Large Ring	15.00	in	1.03		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: FRI MAR 9 10:30:30 2018

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W
 Calibration Performed: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



PIONEER
 Pioneer Energy Services

Company GULF EXPLORATION, LLC
 Well HENRY #1-27
 Field UNNAMED
 County THOMAS
 State KANSAS



DUAL INDUCTION LOG

Company GULF EXPLORATION, LLC
 Well HENRY #1-27
 Field UNNAMED
 County THOMAS
 State KANSAS

Company GULF EXPLORATION, LLC
 Well HENRY #1-27
 Field UNNAMED
 County THOMAS State KANSAS

Location: API #: 15-193-21011-00-00
 1622' FSL & 1256' FEL
 SEC 27 TWP 7S RGE 35W
 Permanent Datum GROUND LEVEL Elevation 3213'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services
 CNL/CDL
 MEL/BHCS
 Elevation
 K.B. 3218'
 D.F. N/A
 G.L. 3213'

Date	3/28/2018
Run Number	ONE
Depth Driller	4806'
Depth Logger	4810'
Bottom Logged Interval	4809'
Top Log Interval	300'
Casing Driller	8.625" @ 305'
Casing Logger	300'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	2900
Density / Viscosity	9.2 57
pH / Fluid Loss	9.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.60 @ 50
Rmt @ Meas. Temp	0.45 @ 50
Rmc @ Meas. Temp	0.81 @ 50
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.24 @ 124
Operating Rig Time	5 HOURS
Max Rec. Temp. F	124
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	KEITH REAVIS

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

LEVANT,
 2 NORTH ON RD 11 FROM THE RR TRACKS,
 WEST INTO NORTH OF FARMHOUSE

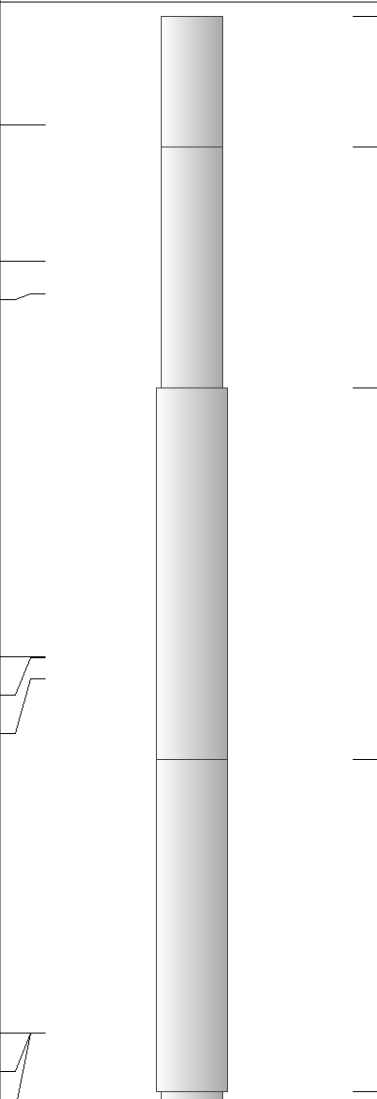
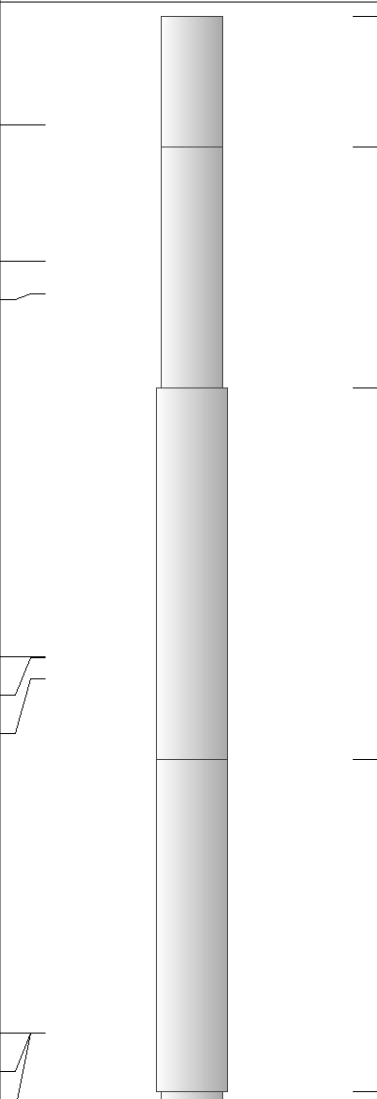
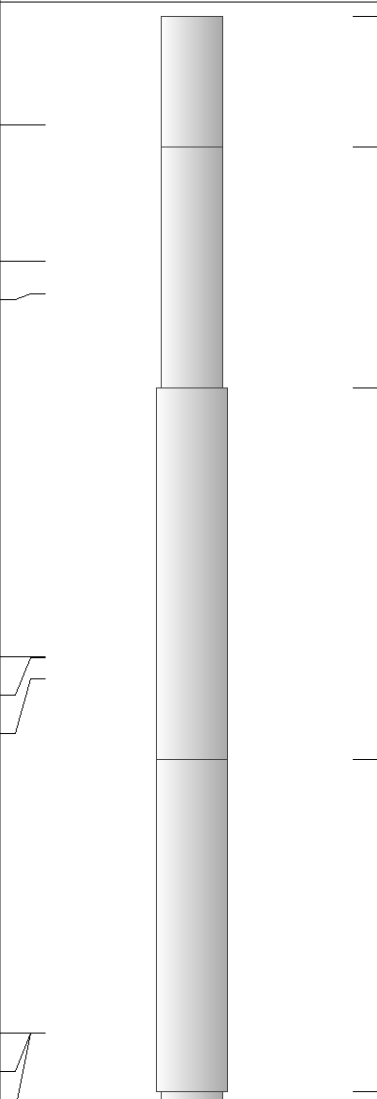
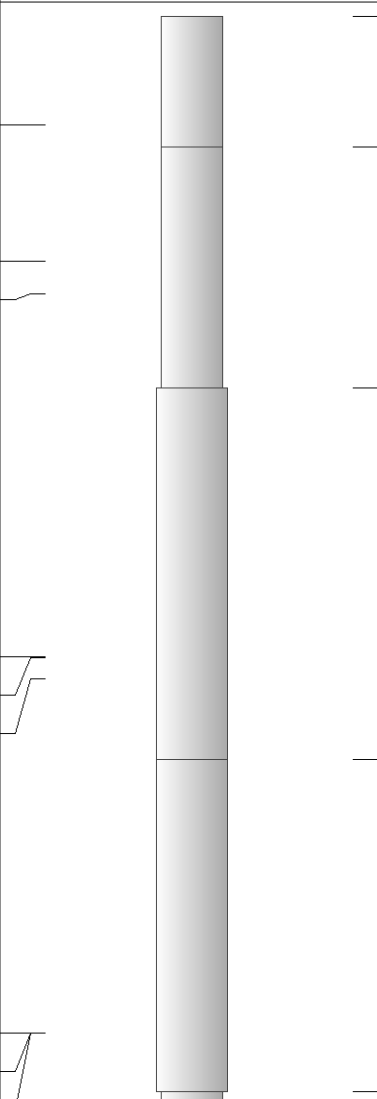
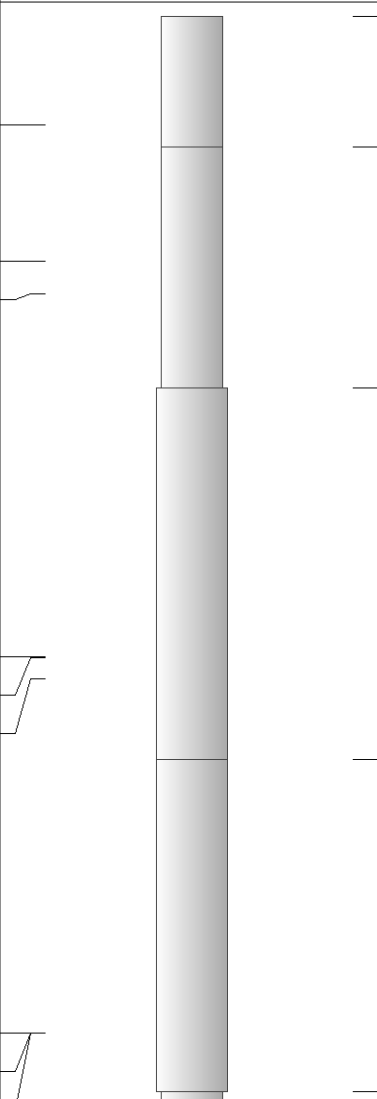
Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: KEITH REAVIS
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-144	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	4611	124	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (182-152)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD 8.00

CILM 4.70

SP 0.20

DIL-PSI HIGH TEMP (933 (HT))

18.50

3.50

220.00

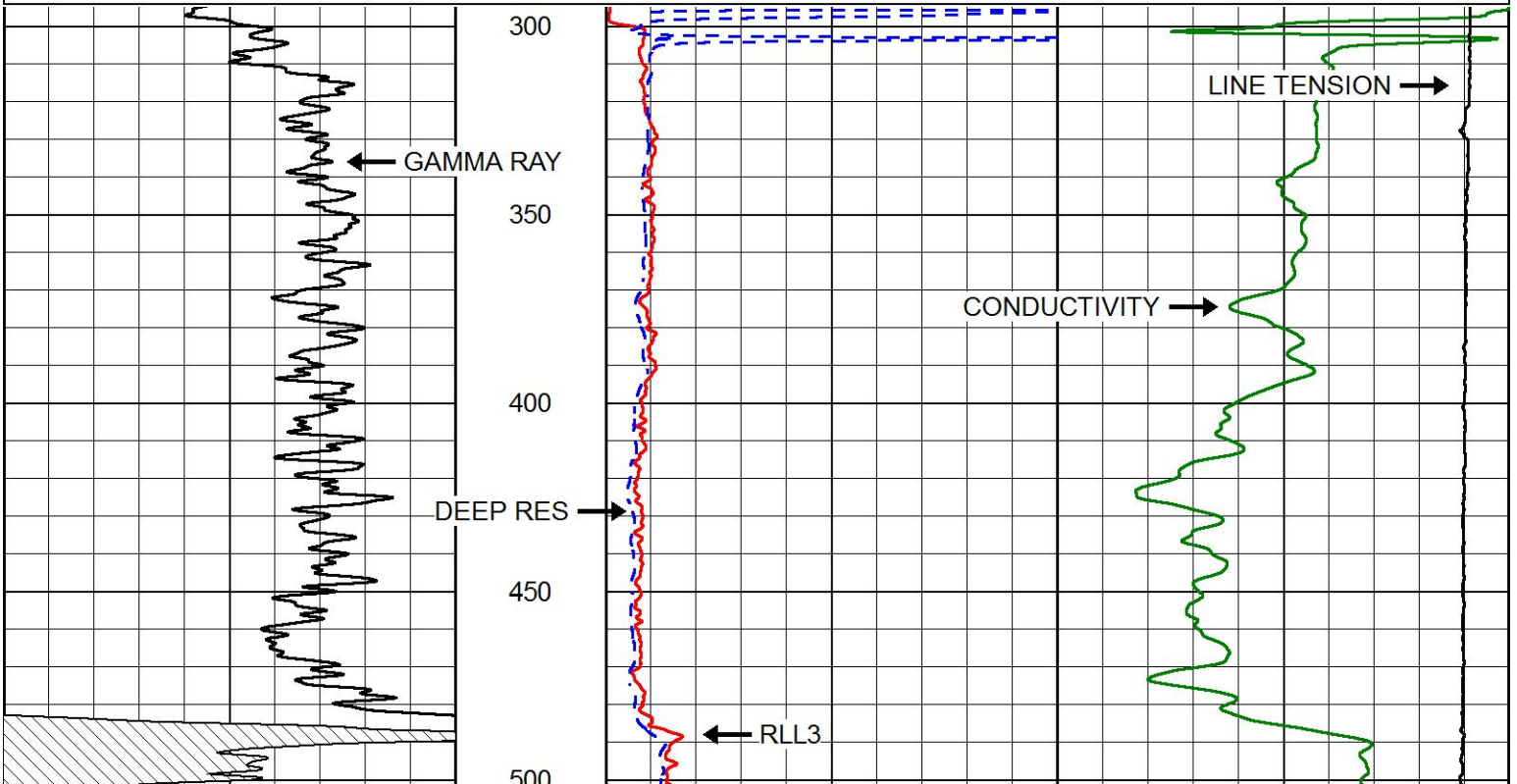
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 Total weight: 685.00 lb
 O.D.: 4.00 in

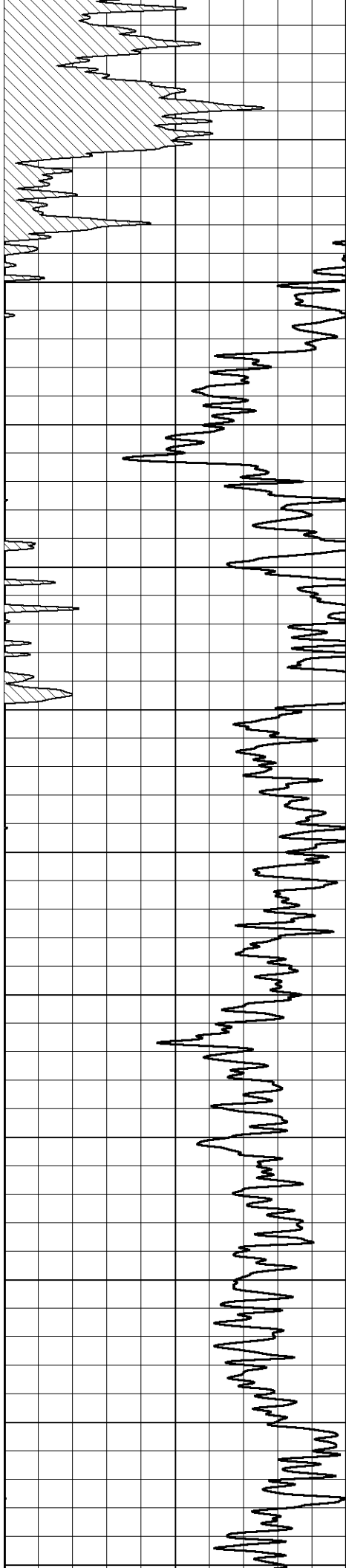


MAIN PASS

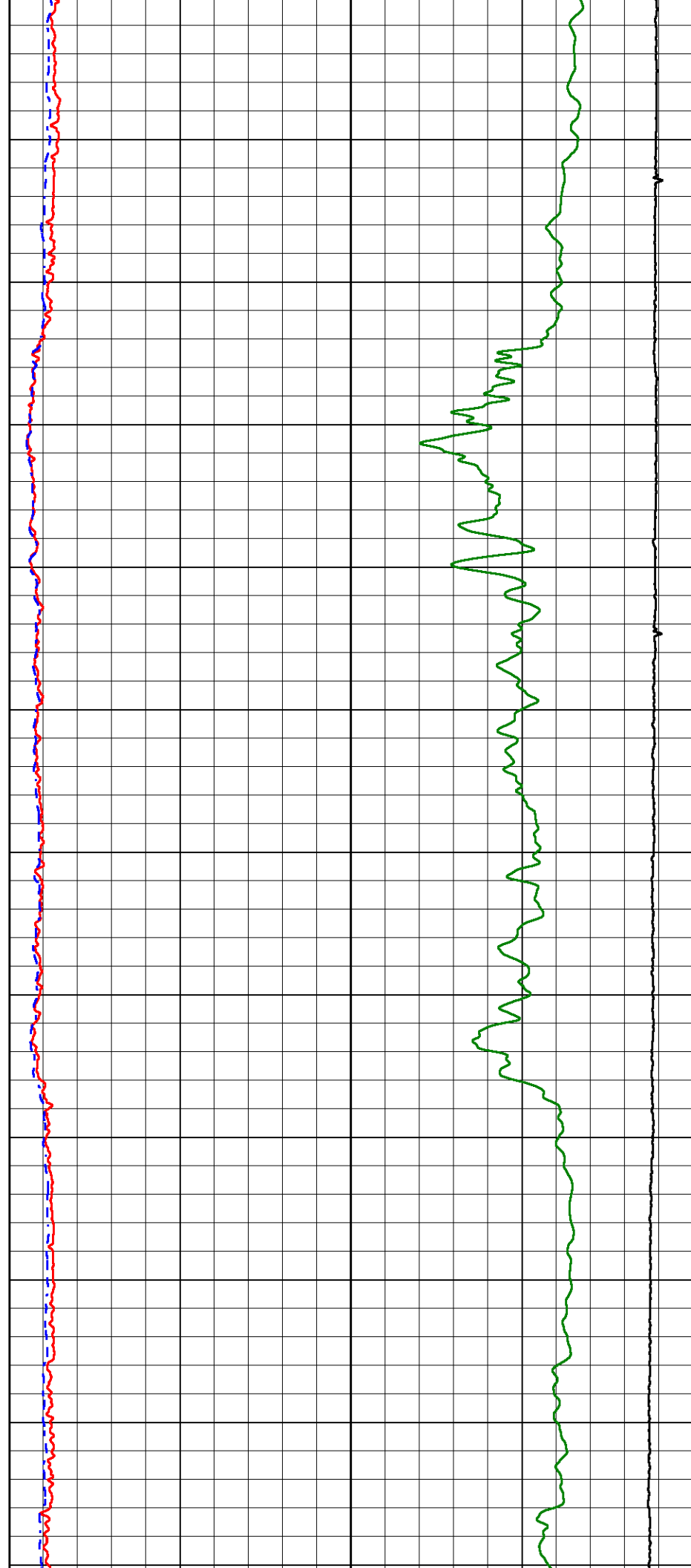
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 Dataset Creation Wed Mar 28 05:08:37 2018
 Charted by Depth in Feet scaled 1:600

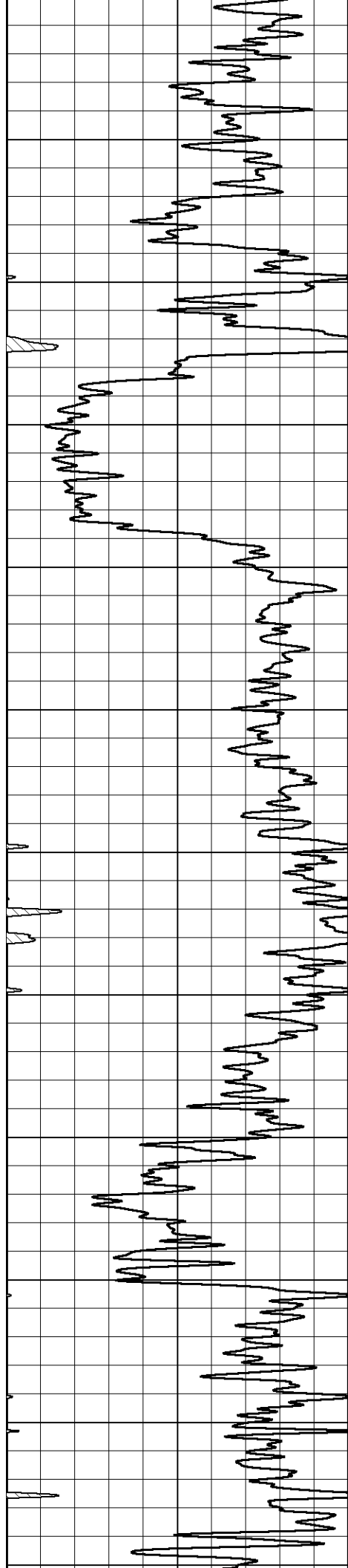
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			15000	Line Tension (lb)	0
			0	RLL3 (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			50	RLL3 (Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500



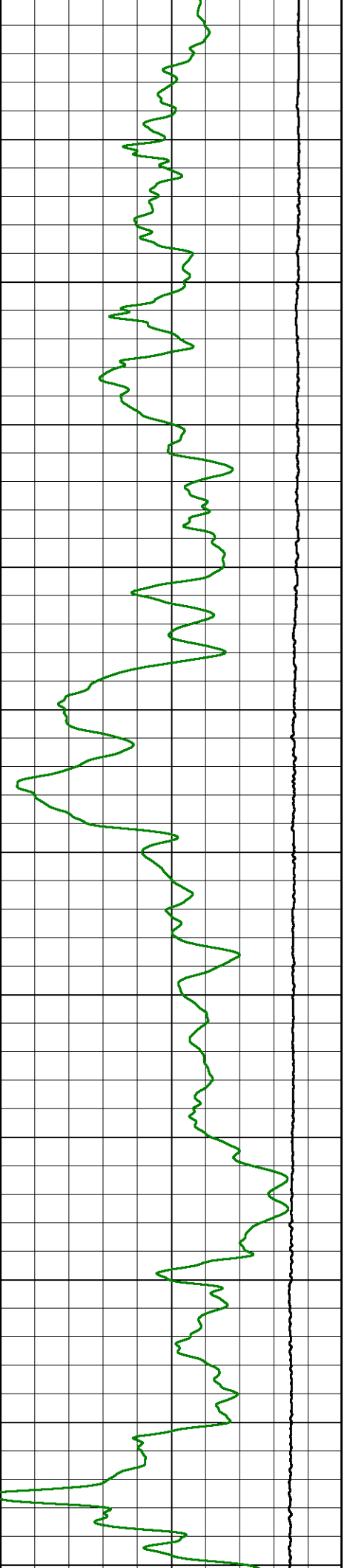
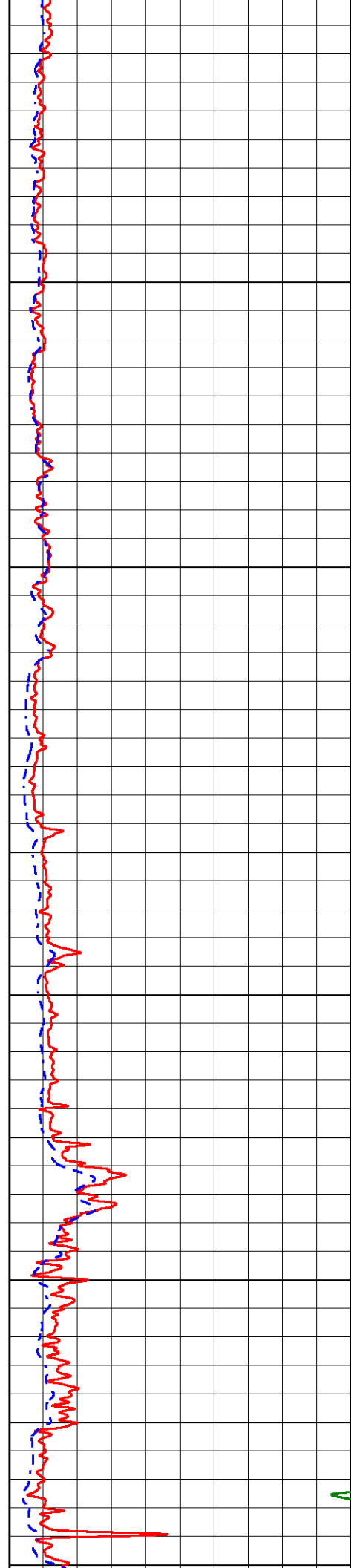


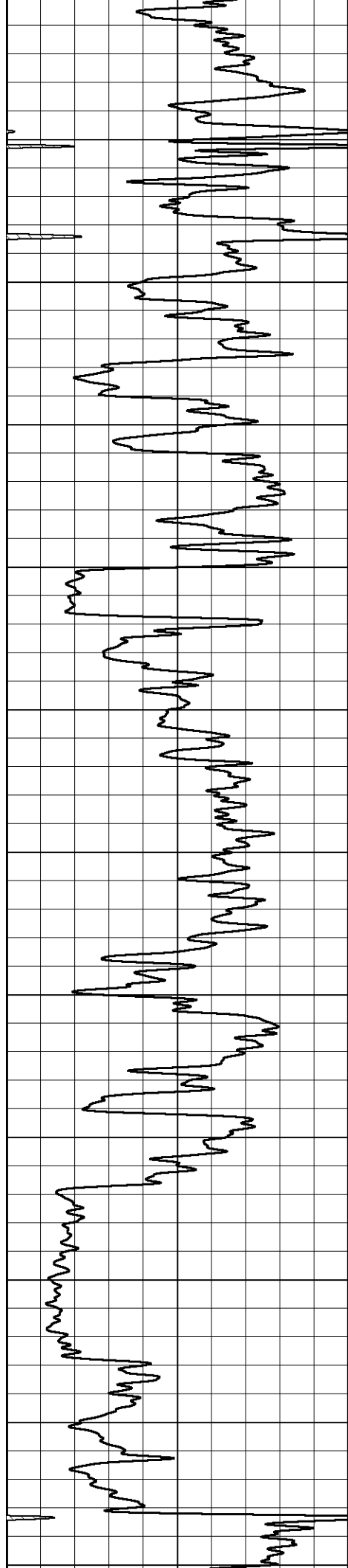
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550
600
650
700
750
800
850
900
950
1000
1050



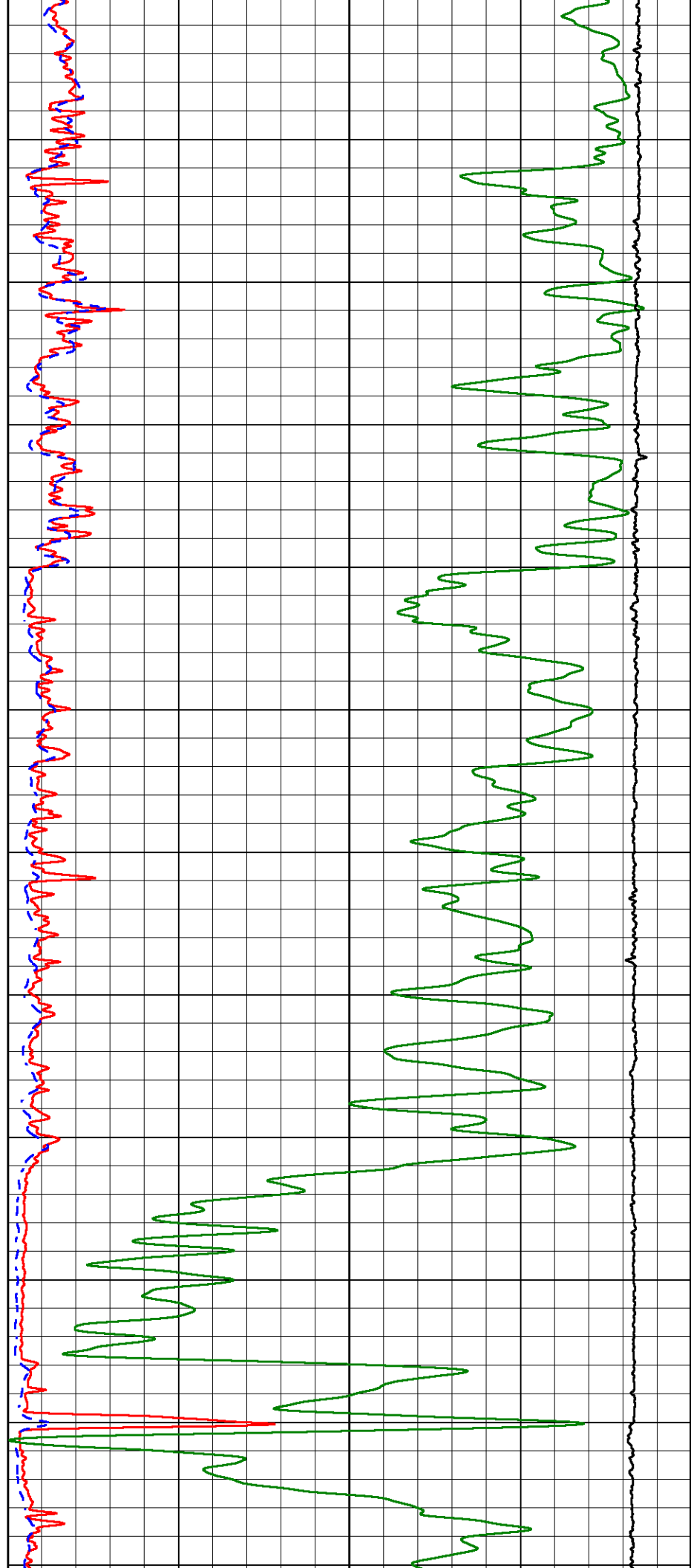


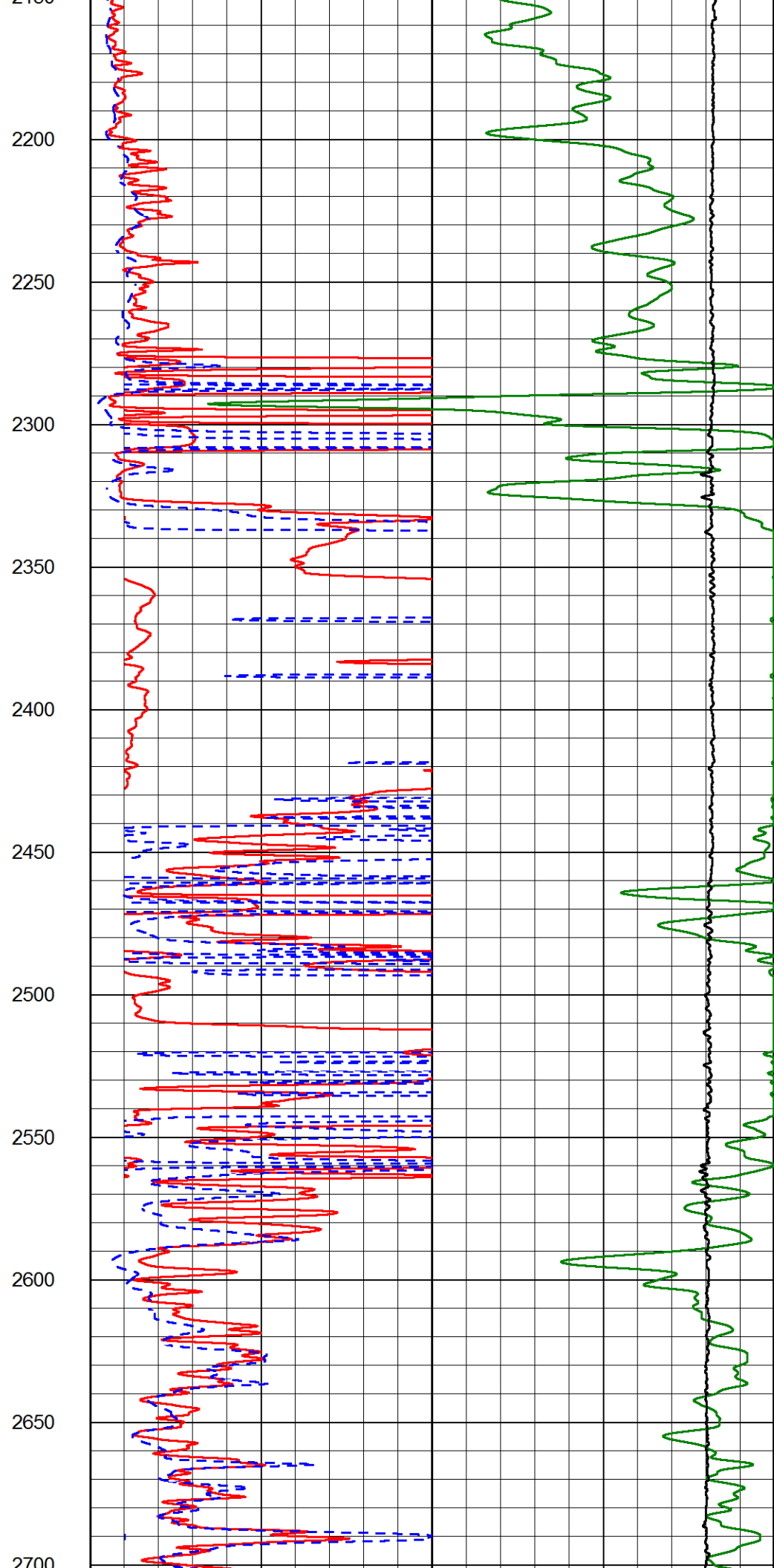
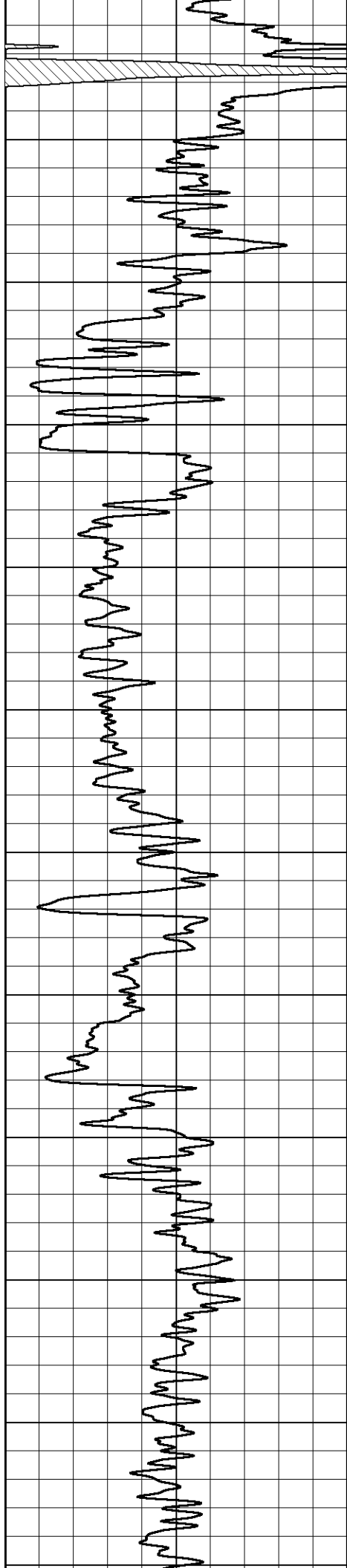
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550
1600

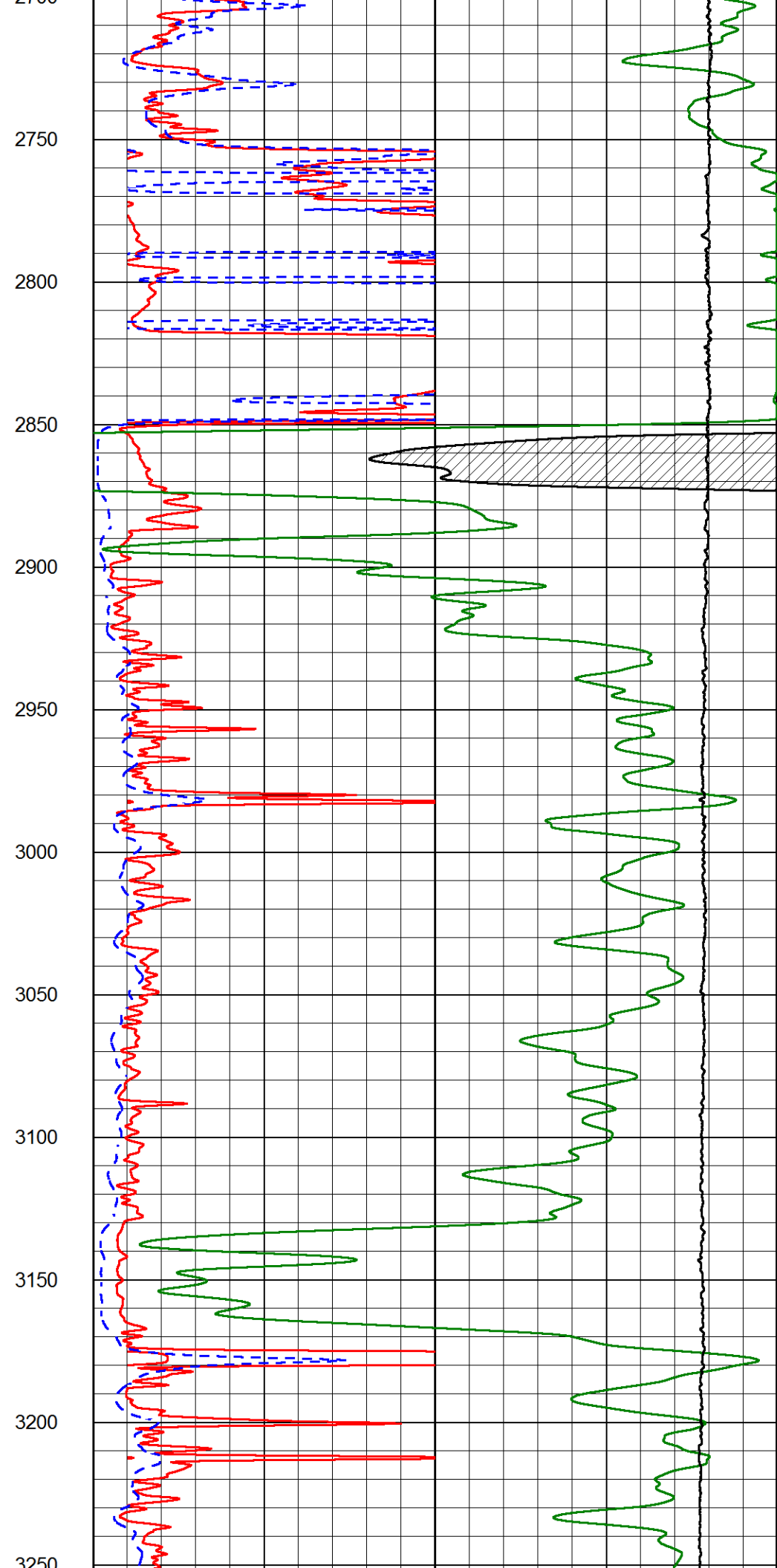
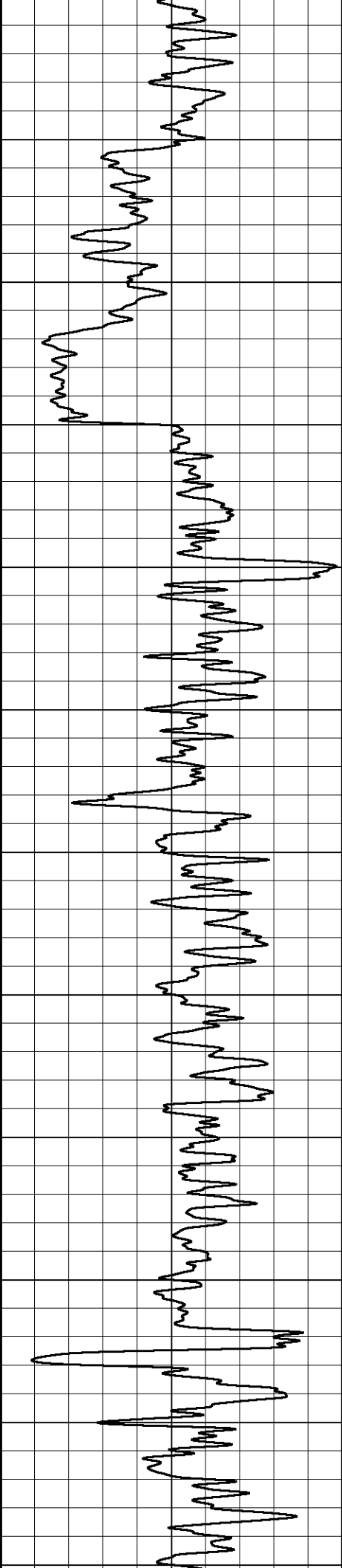


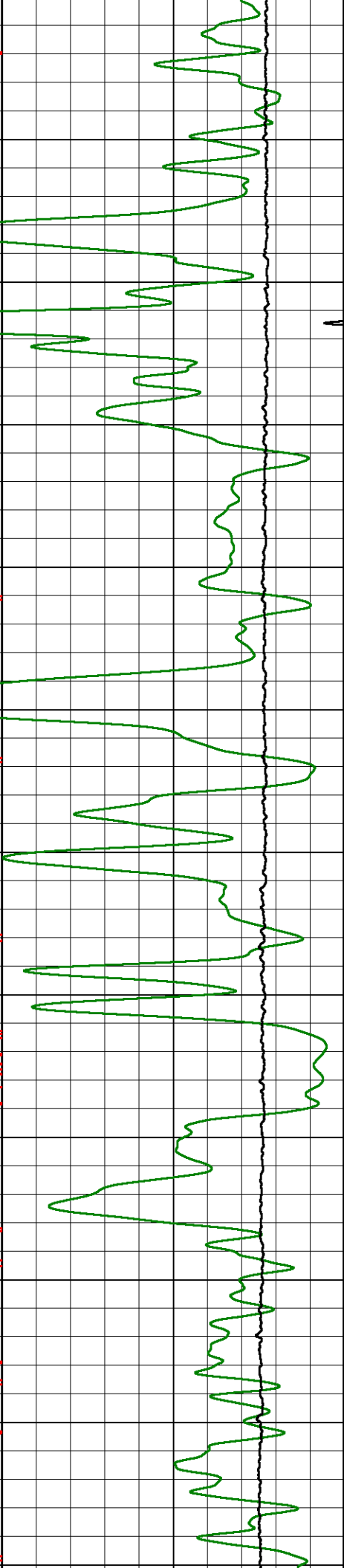
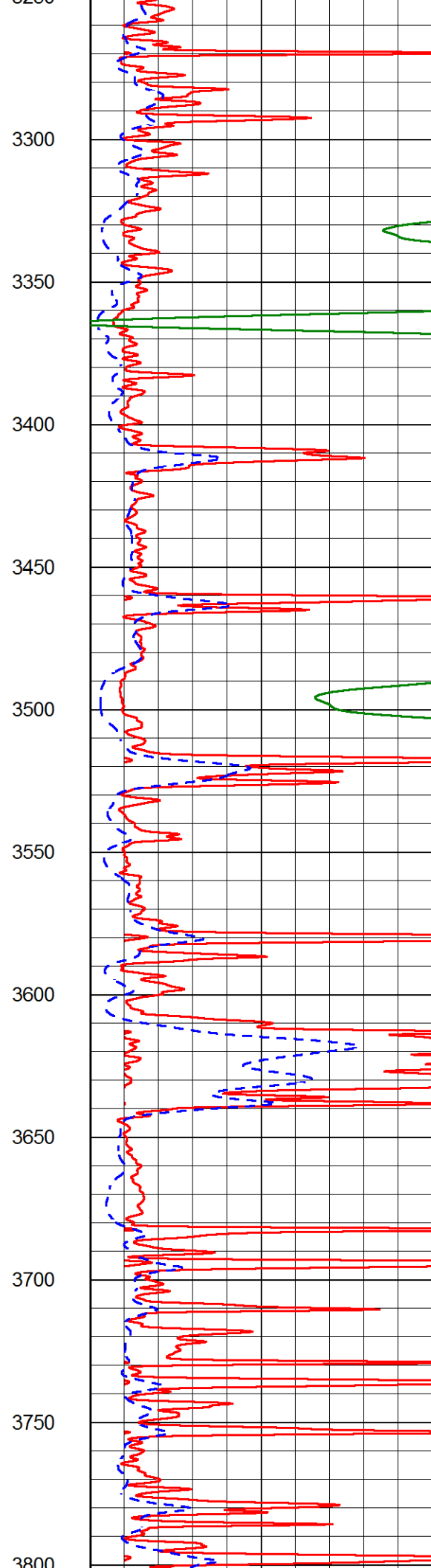
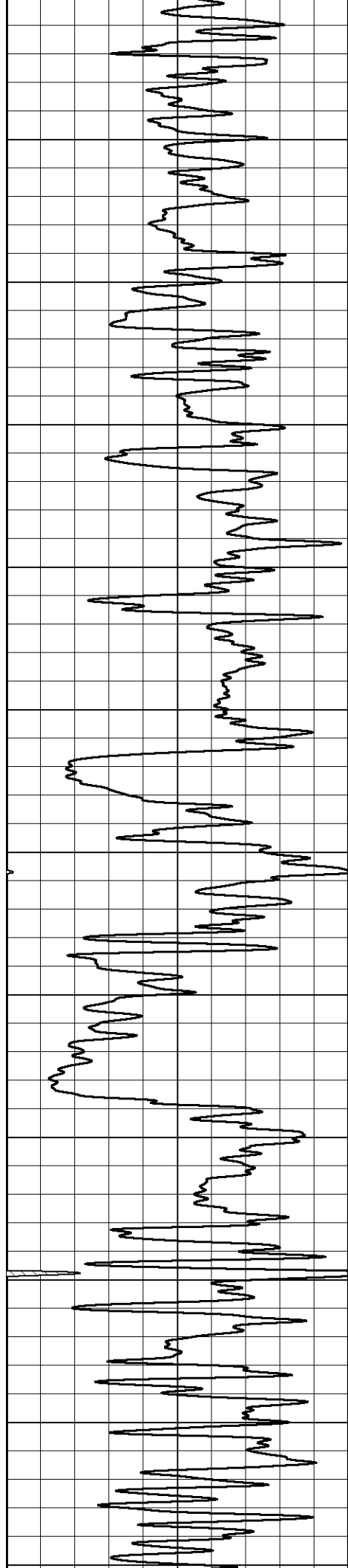


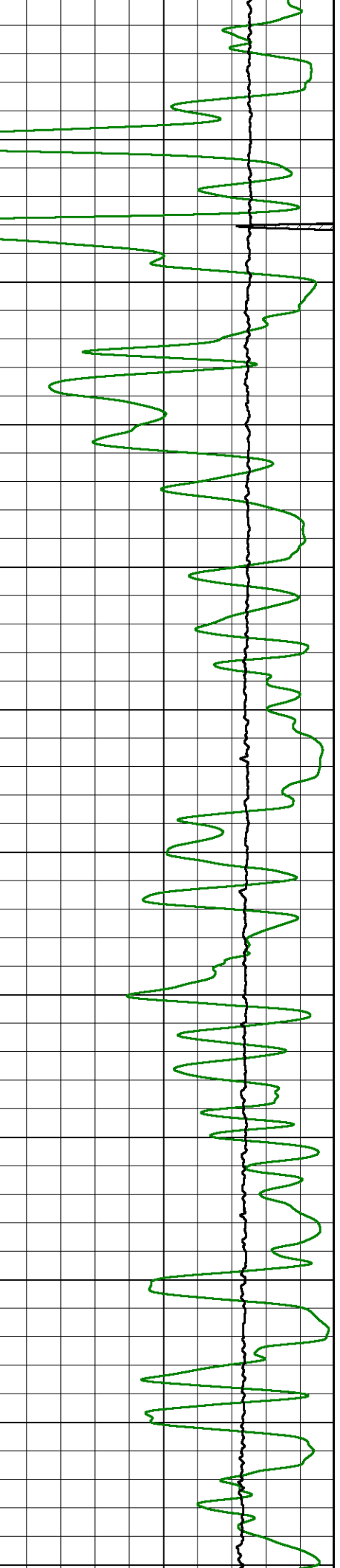
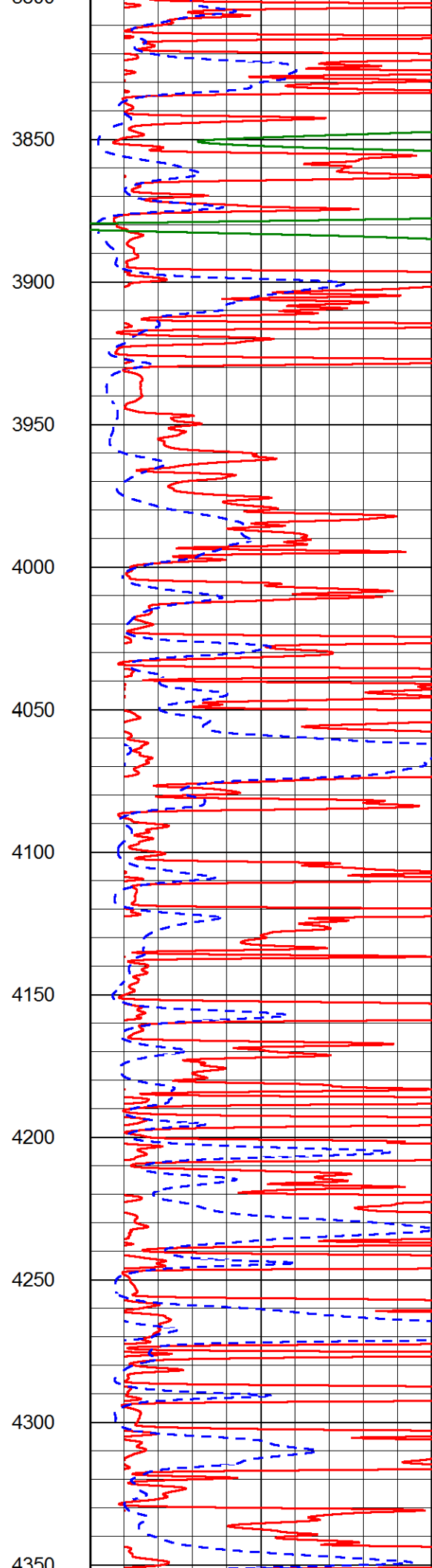
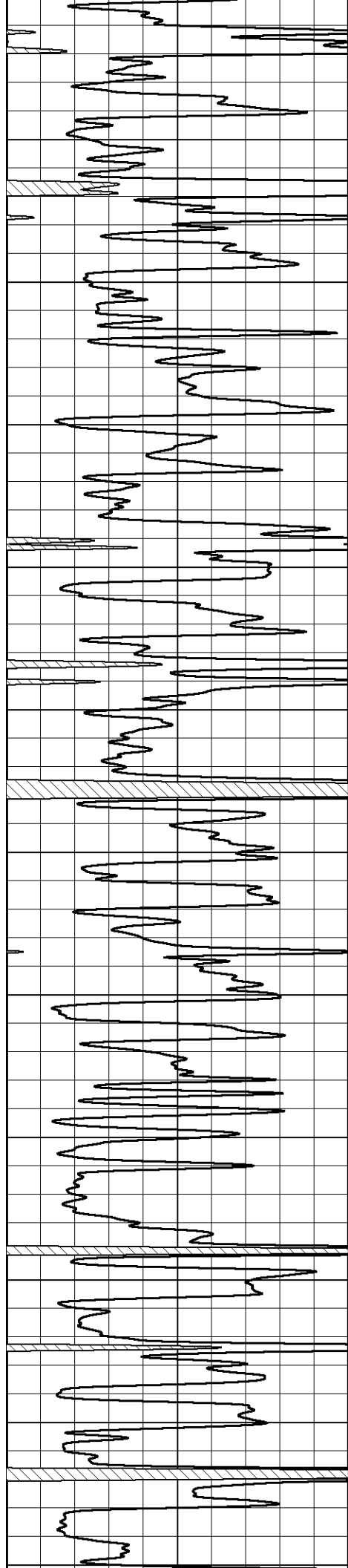
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100
2150

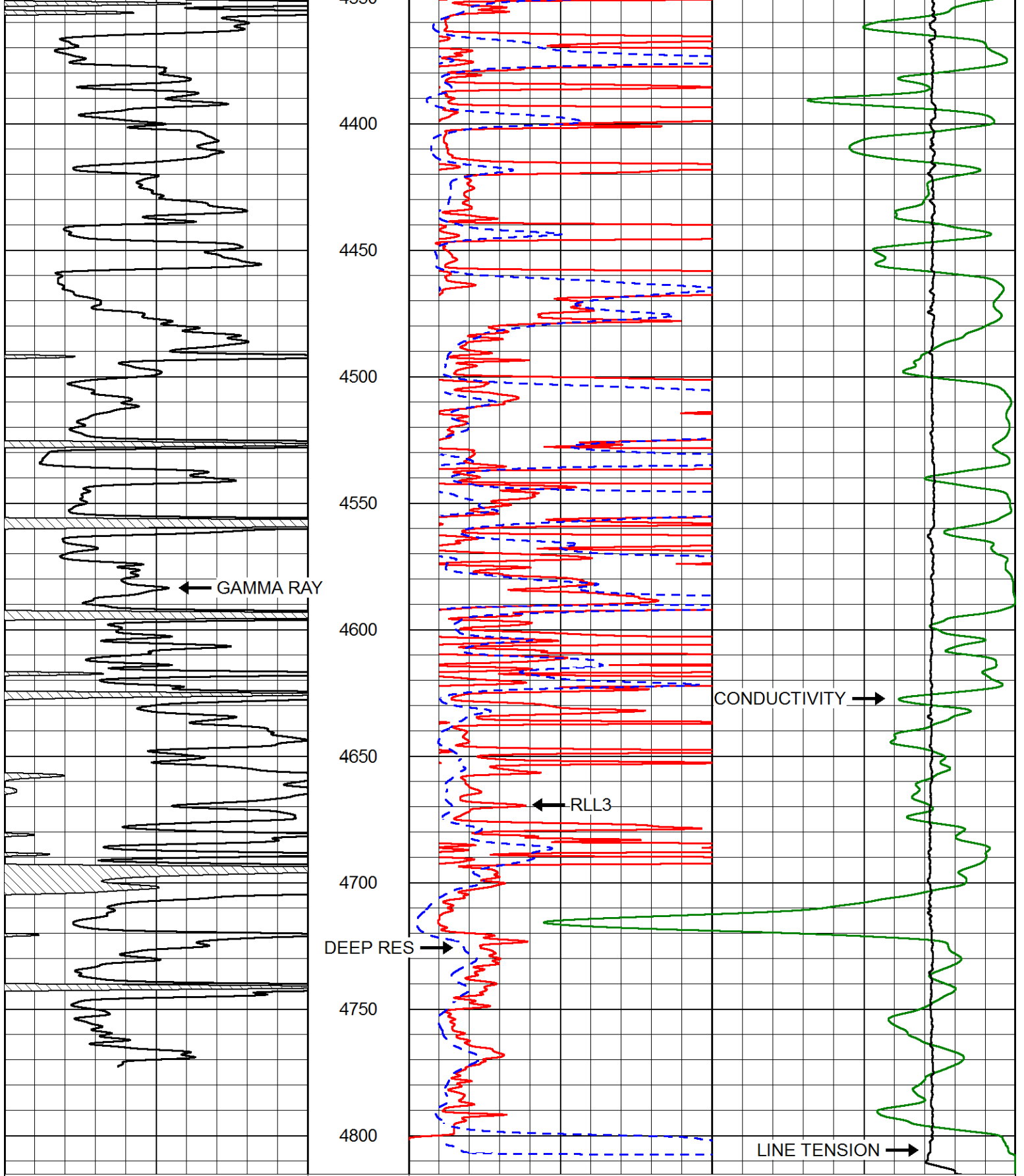












0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

0 RLL3 (Ohm-m) 50

0 Deep Resistivity (Ohm-m) 50

50 RLL3 (Ohm-m) 500

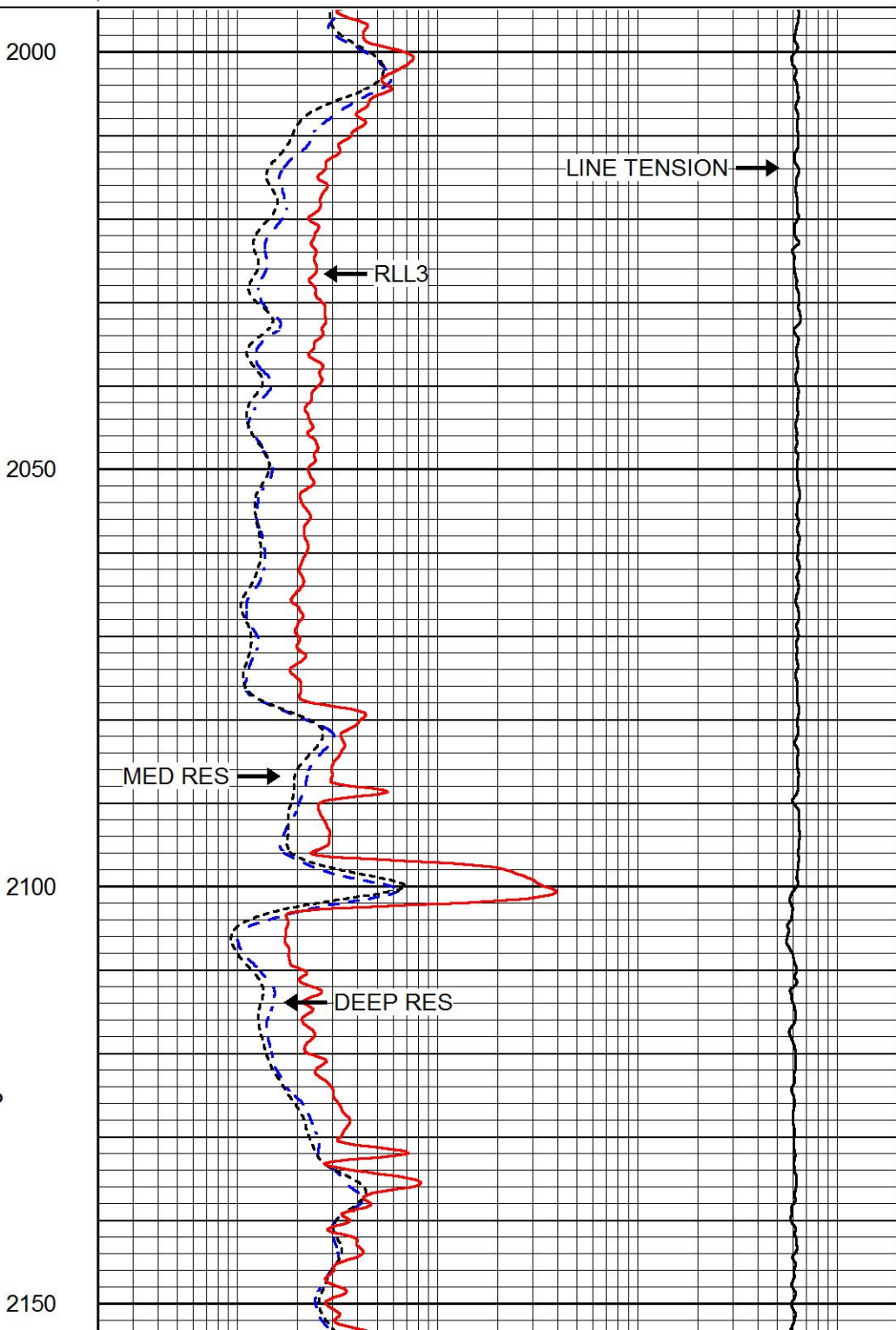
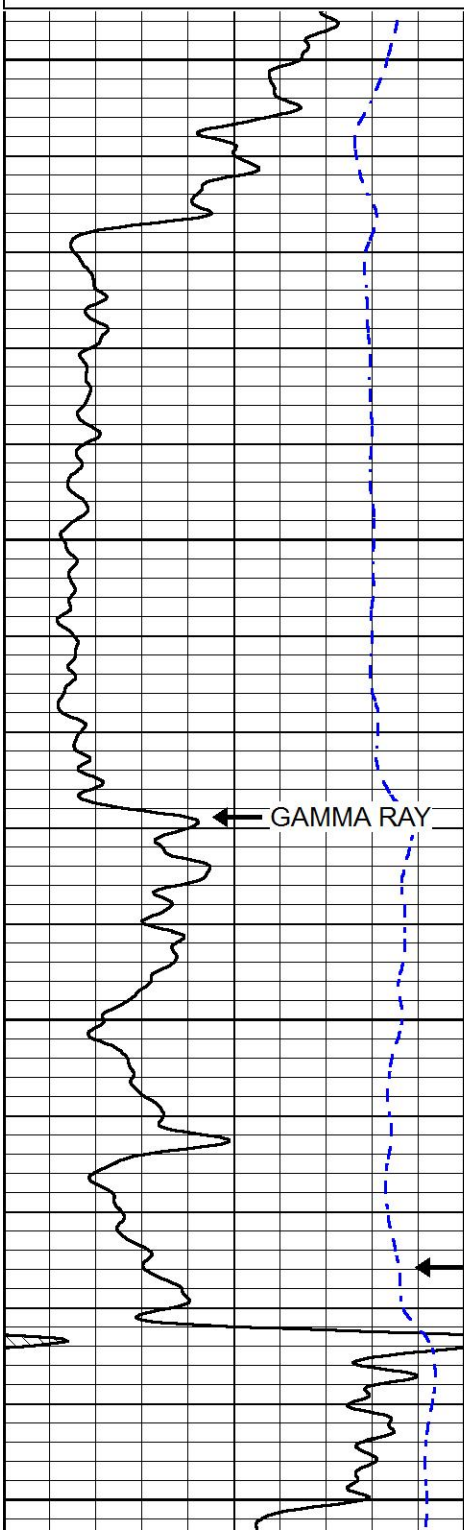
50 Deep Resistivity (Ohm-m) 500

MAIN PASS

Database File gulf_henry 1-27.db
 Dataset Pathname STKML/pass3.9
 Presentation Format dil
 Dataset Creation Wed Mar 28 05:08:37 2018
 Charted by Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150
 -200 SP (mV) 0

0.2 Deep Resistivity (Ohm-m) 2000
 0.2 Medium Resistivity (Ohm-m) 2000
 0.2 RLL3 (Ohm-m) 2000
 10000 Line Tension (lb) 0



← GAMMA RAY

← SP

LINE TENSION →

← RLL3

MED RES →

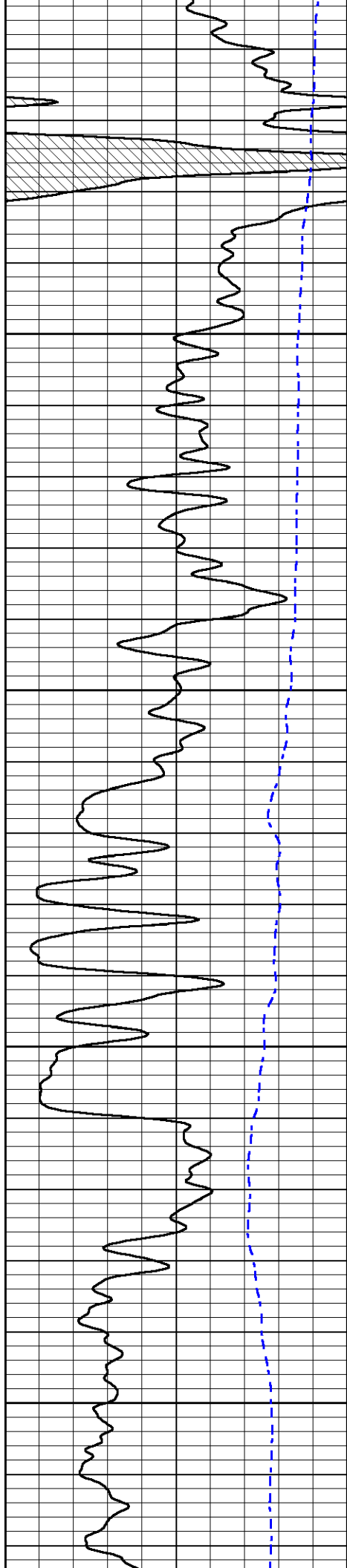
← DEEP RES

2000

2050

2100

2150

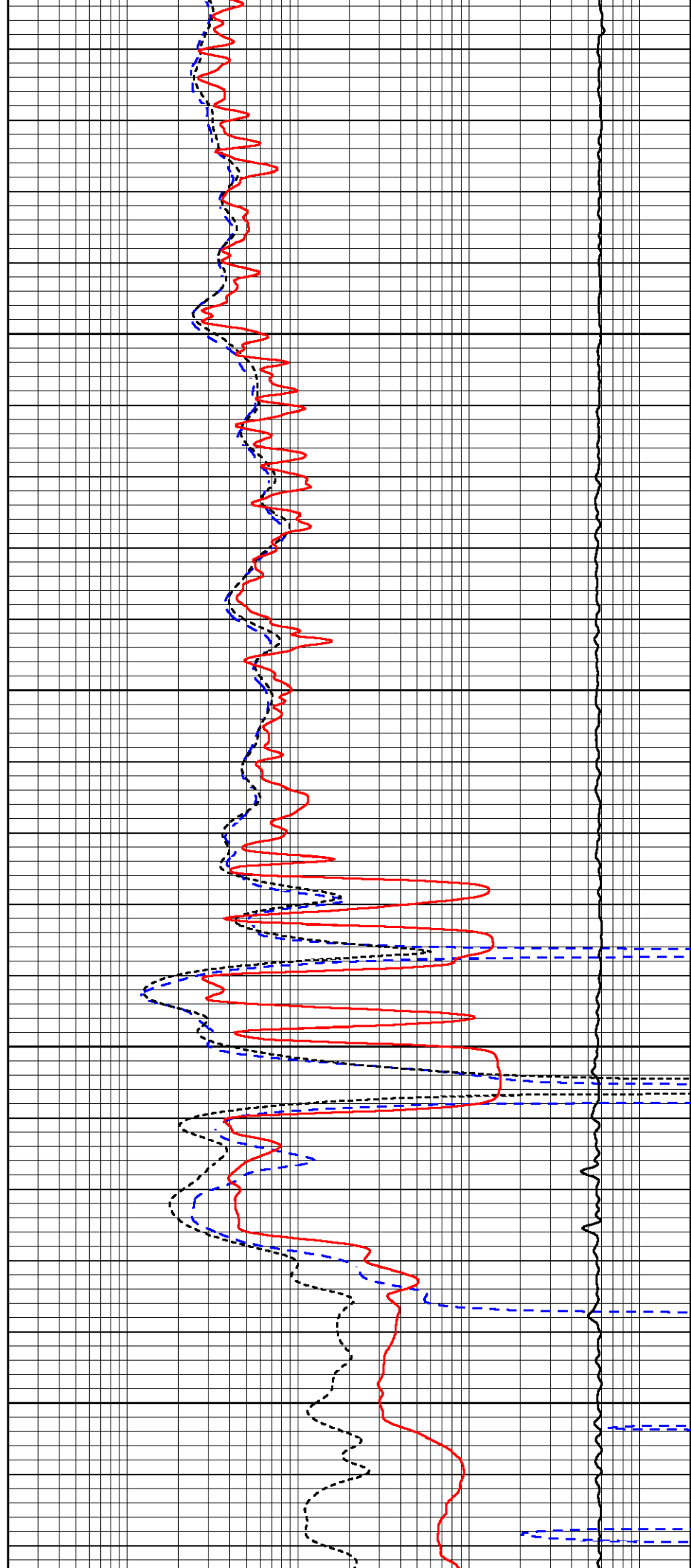


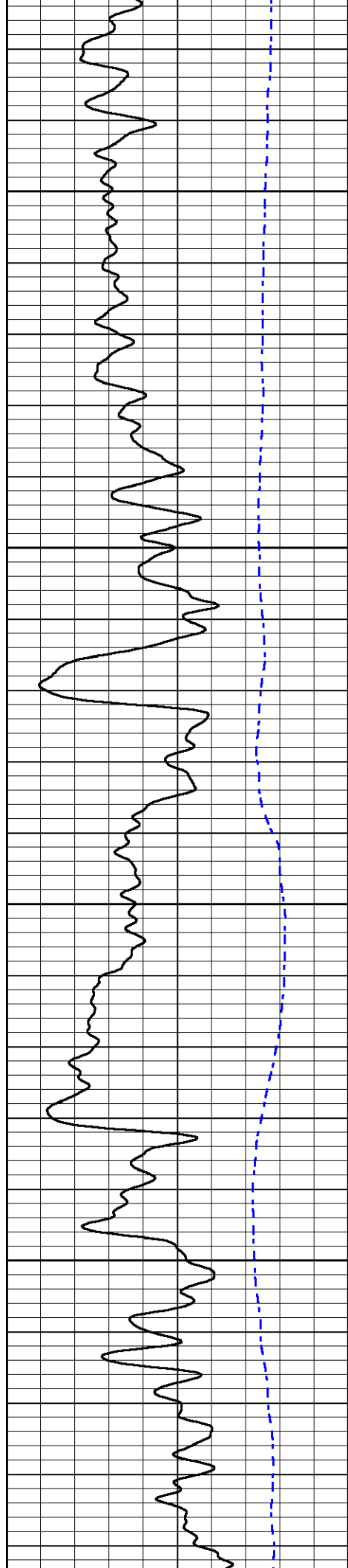
2200

2250

2300

2350



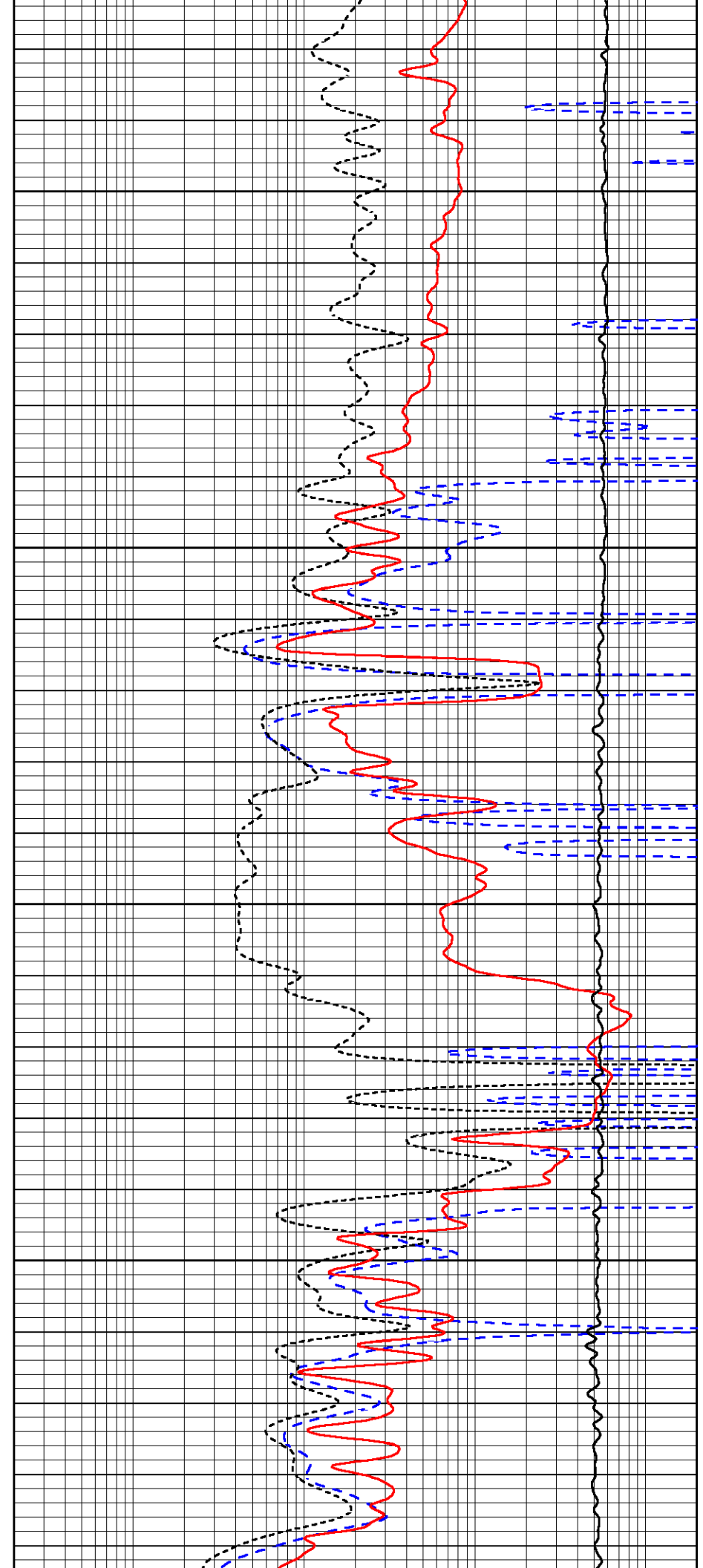


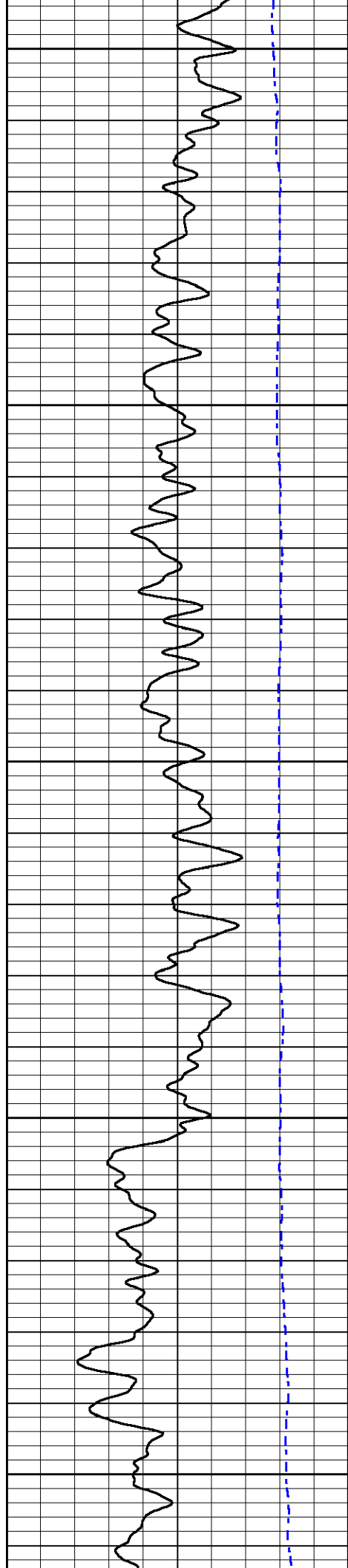
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2450

2500

2550





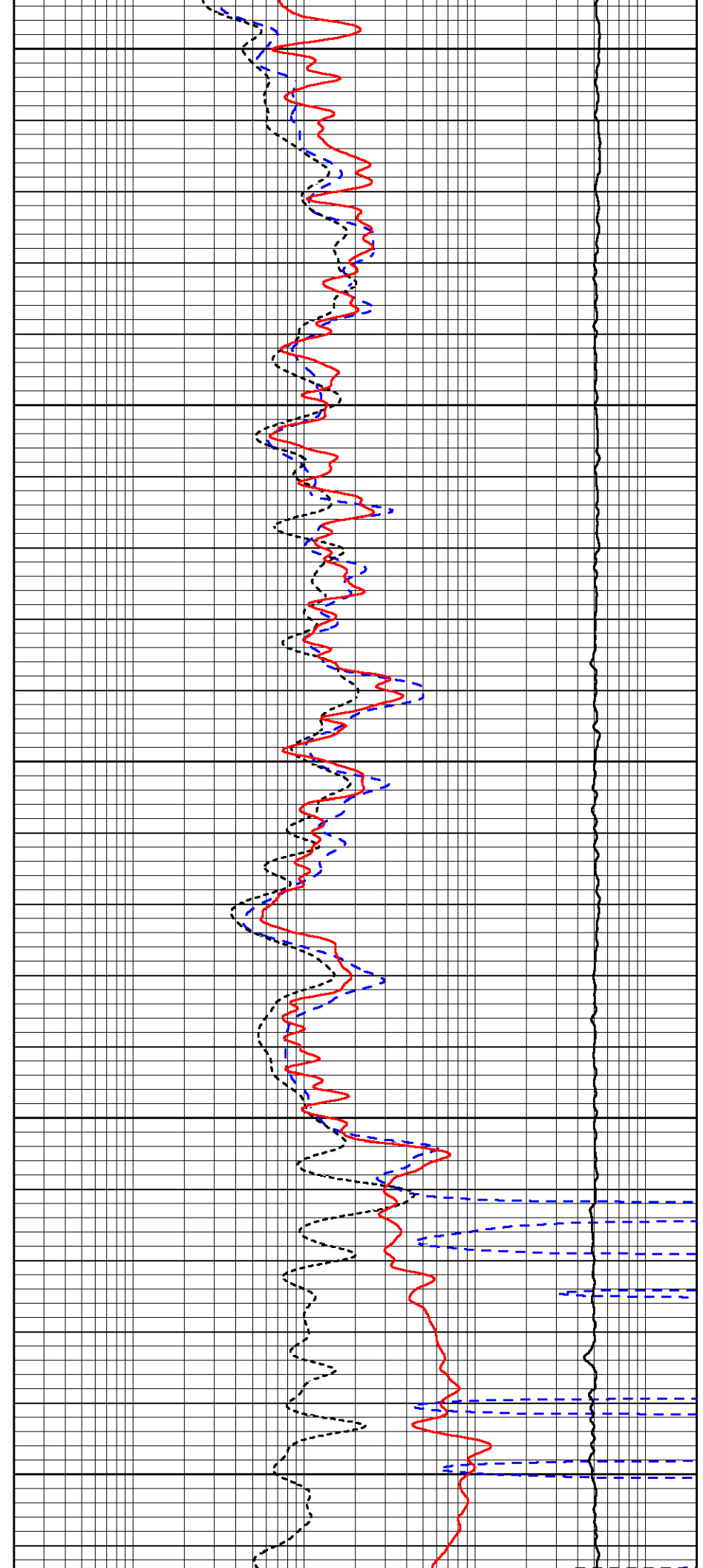
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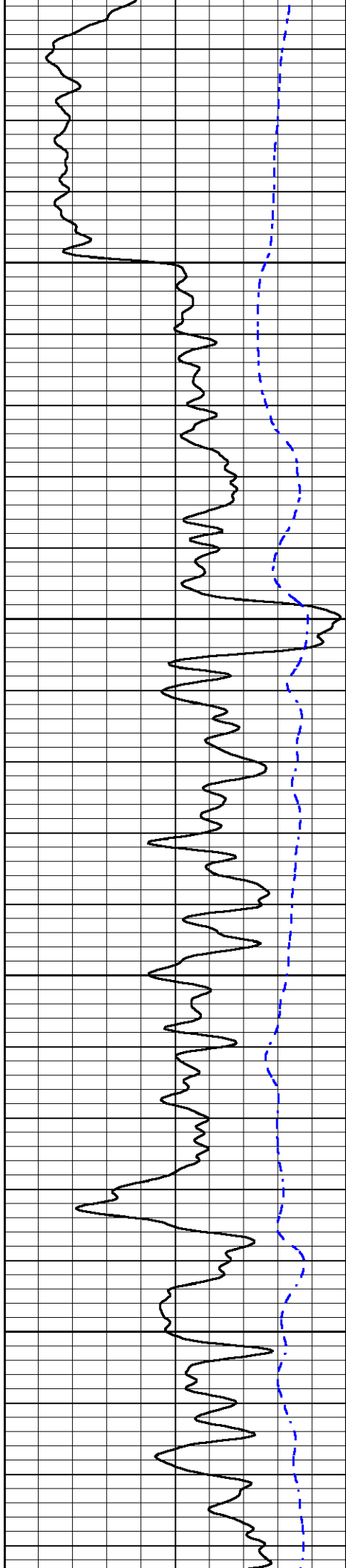
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2700

2750

2800



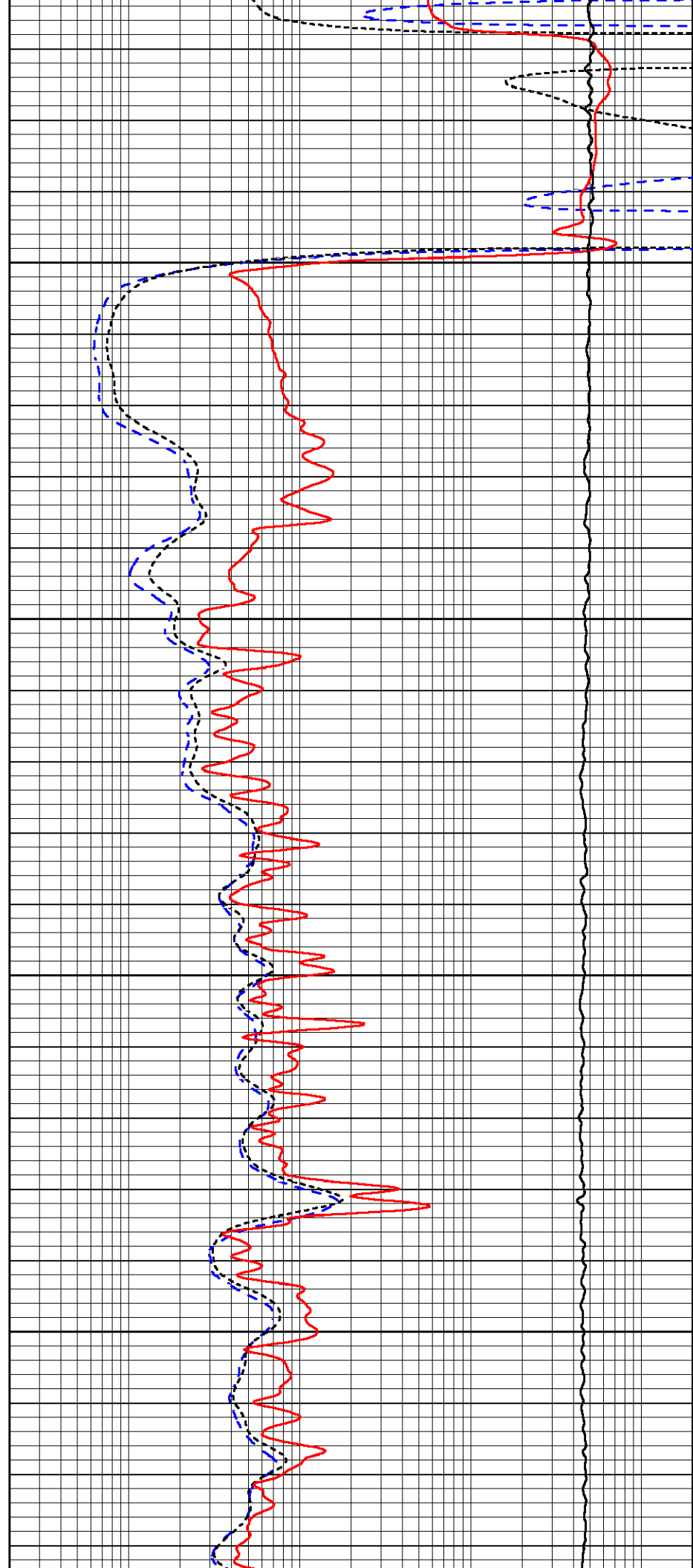


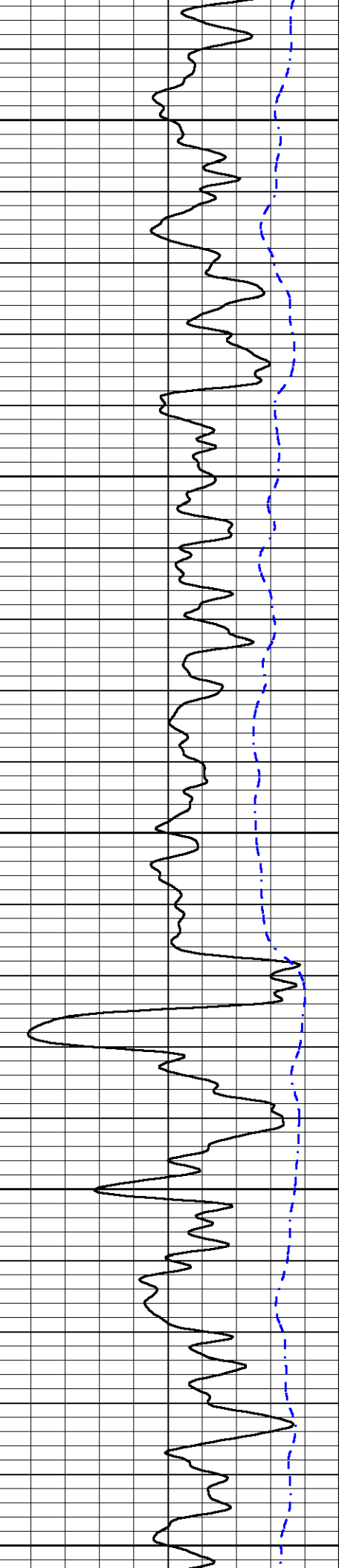
2850

2900

2950

3000





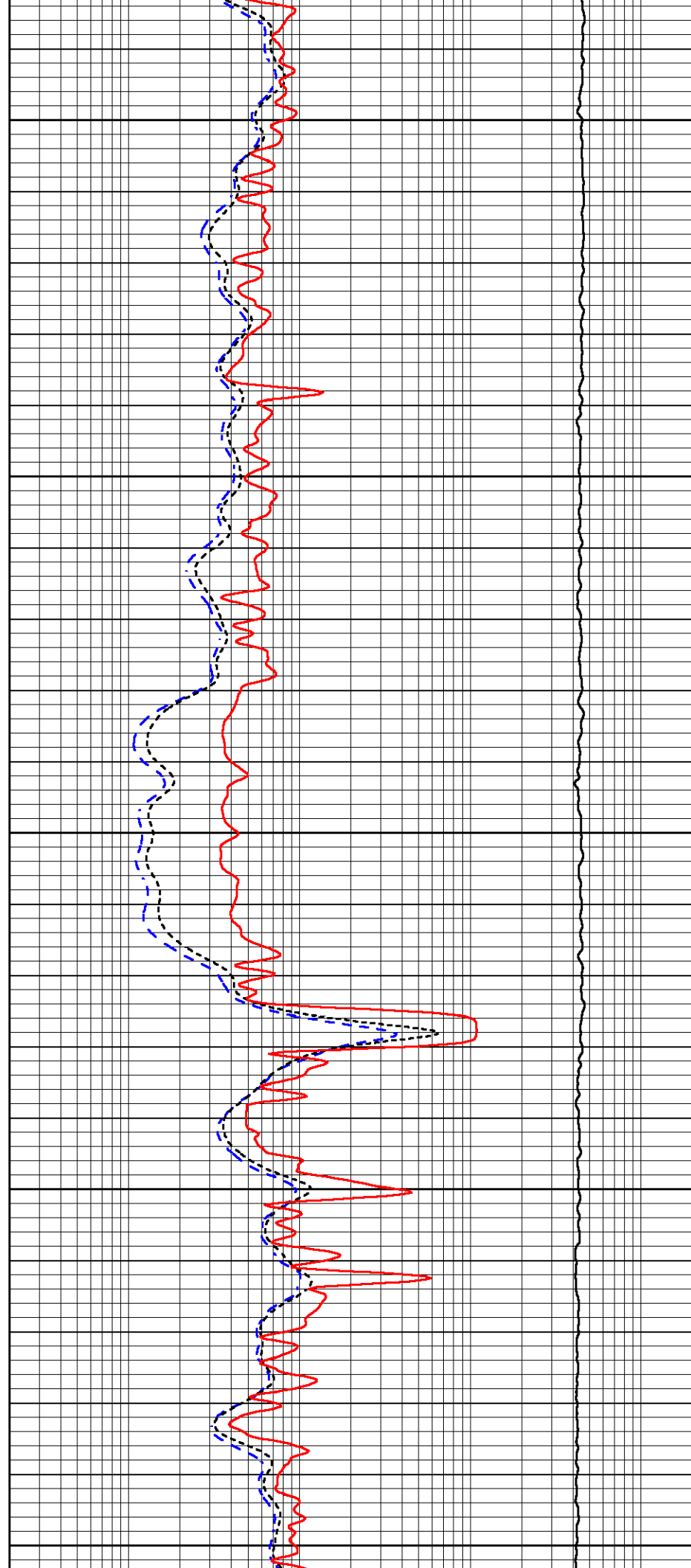
3050

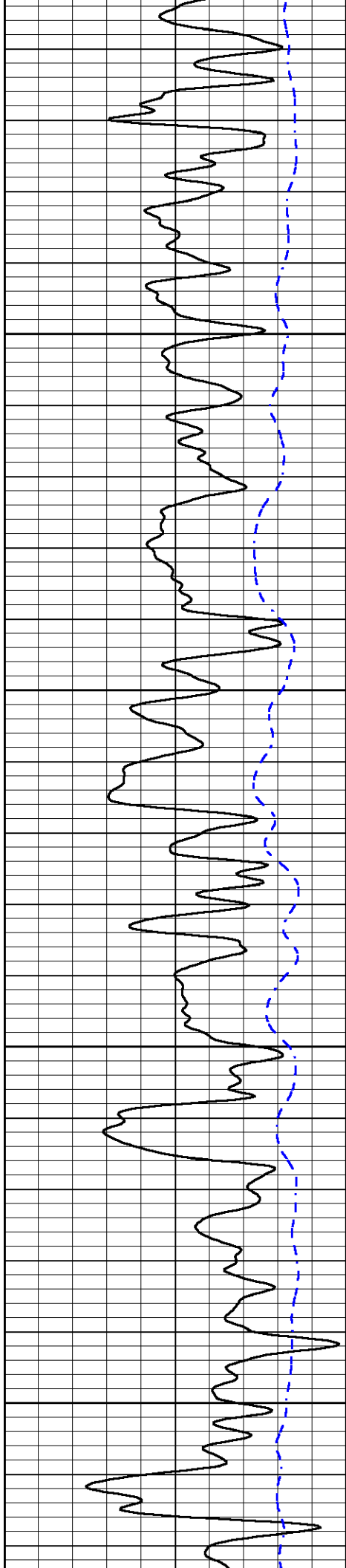
3100

3150

3200

3250



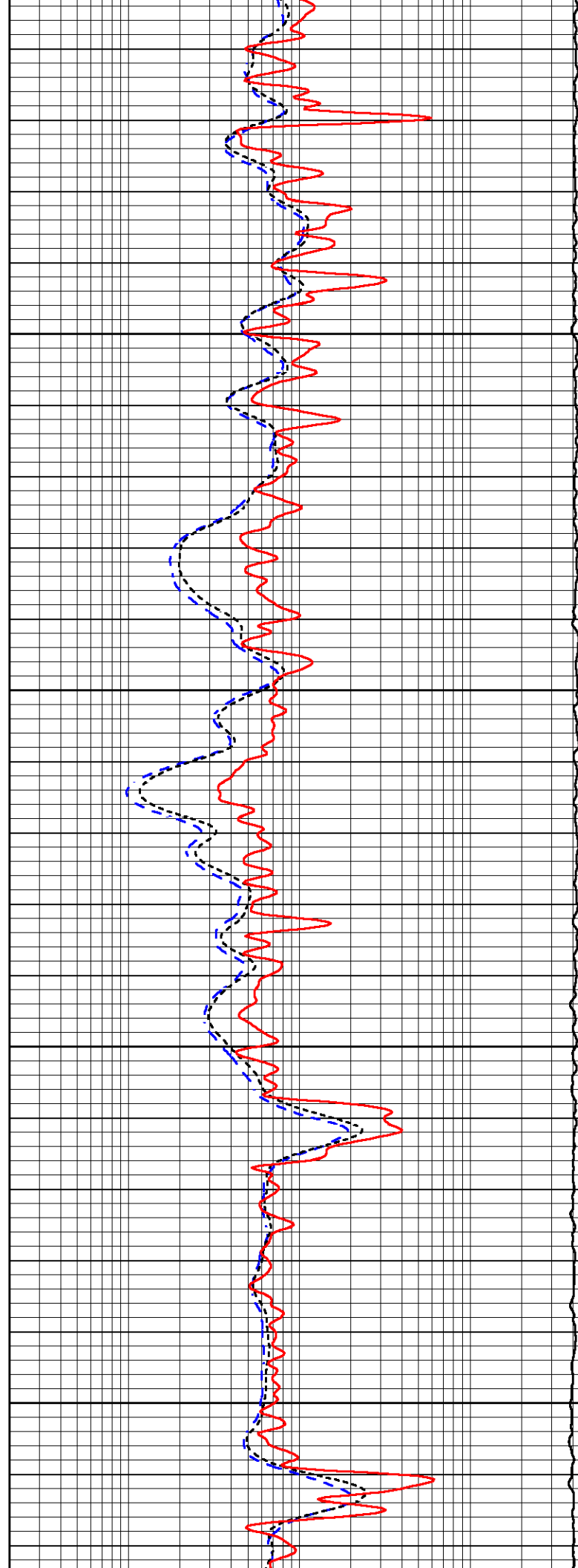


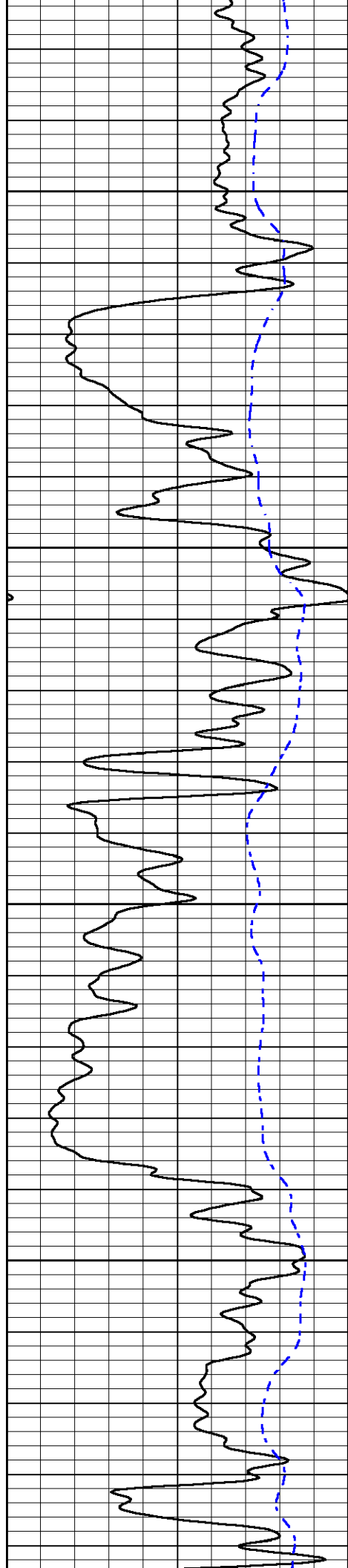
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3350

3400

3450



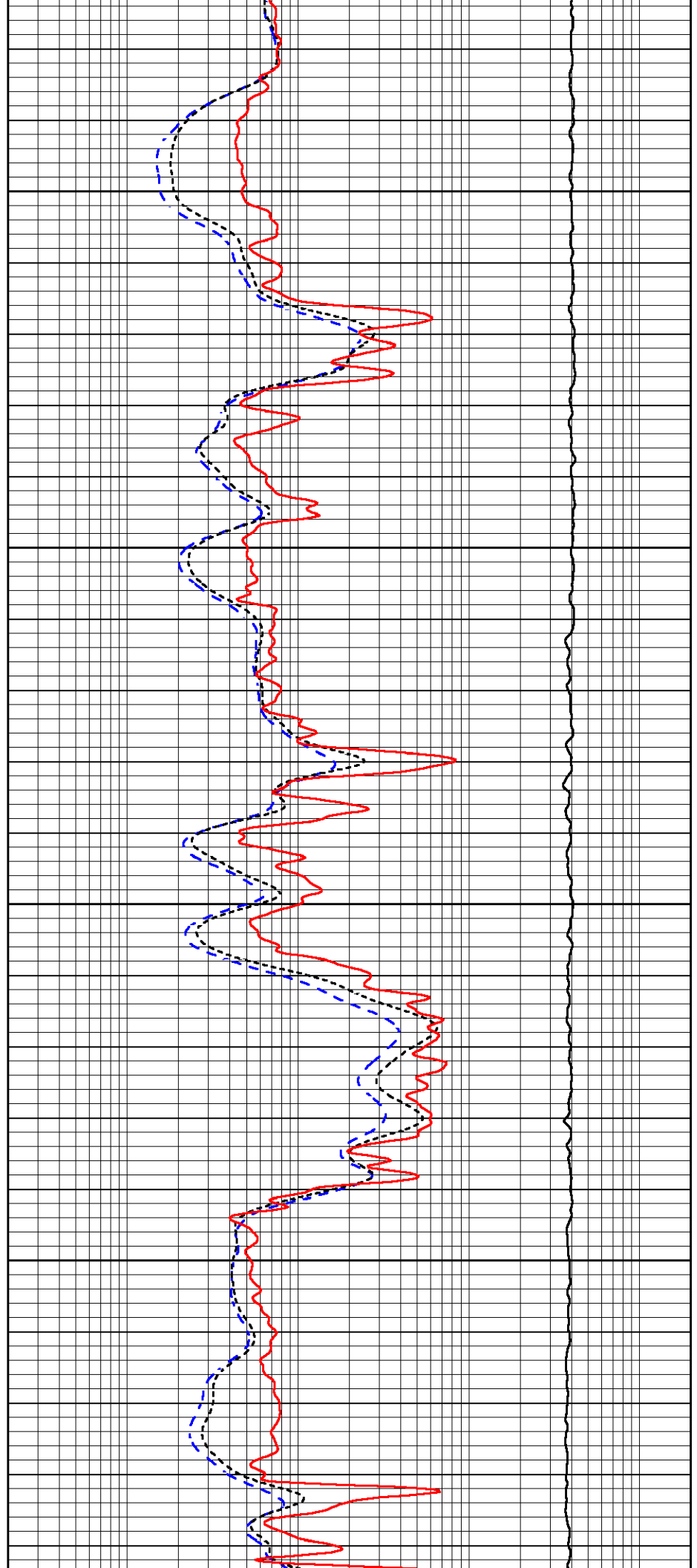


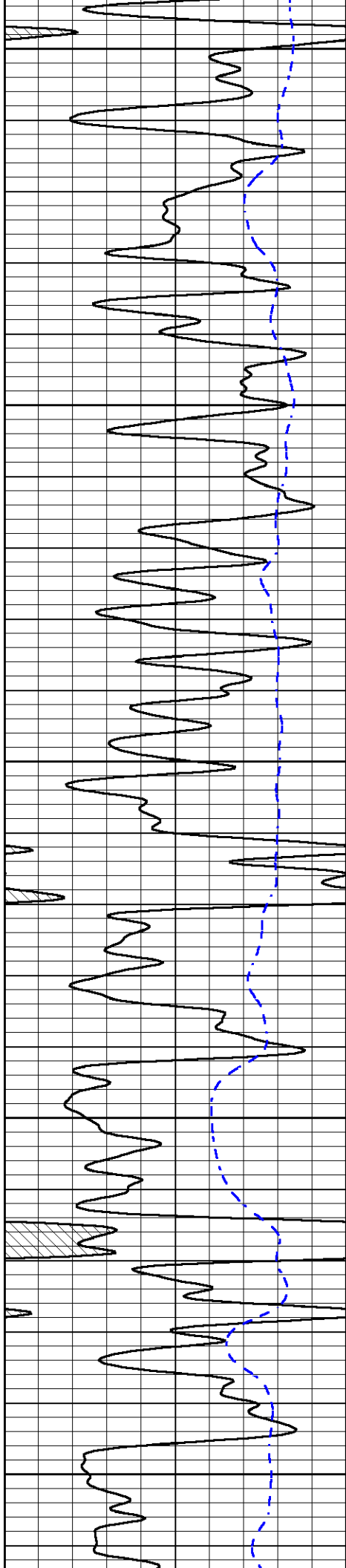
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3550

3600

3650





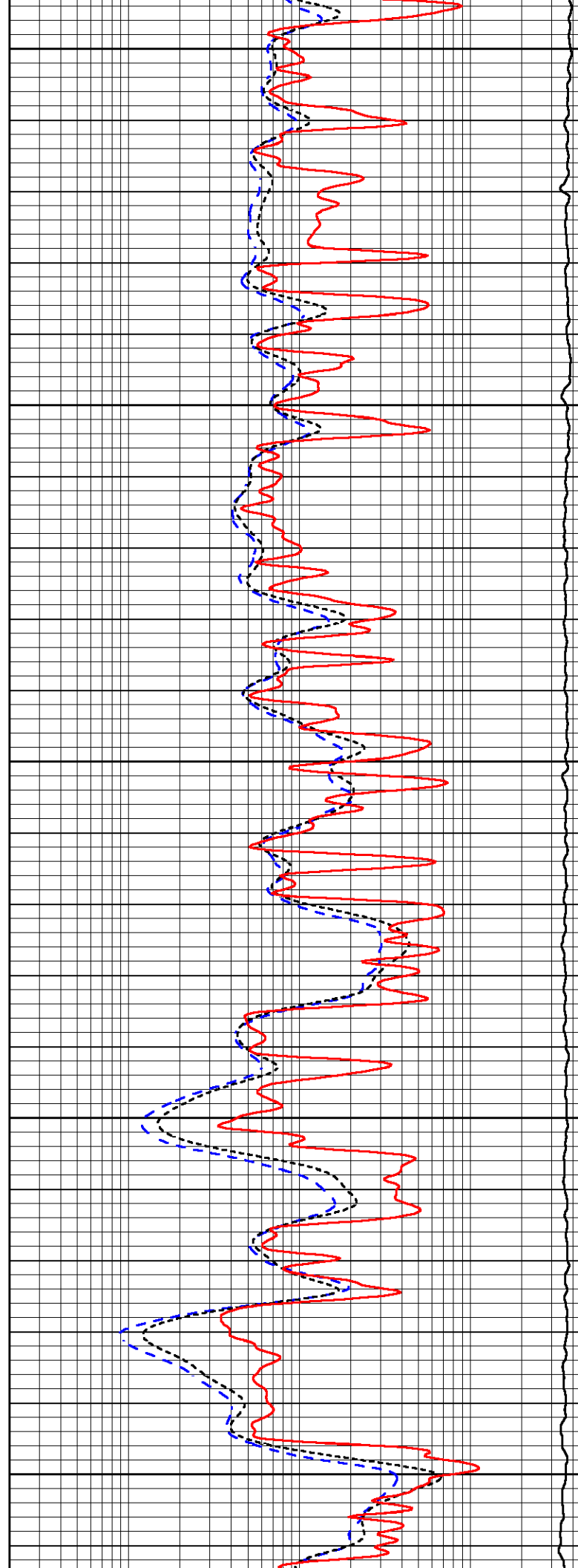
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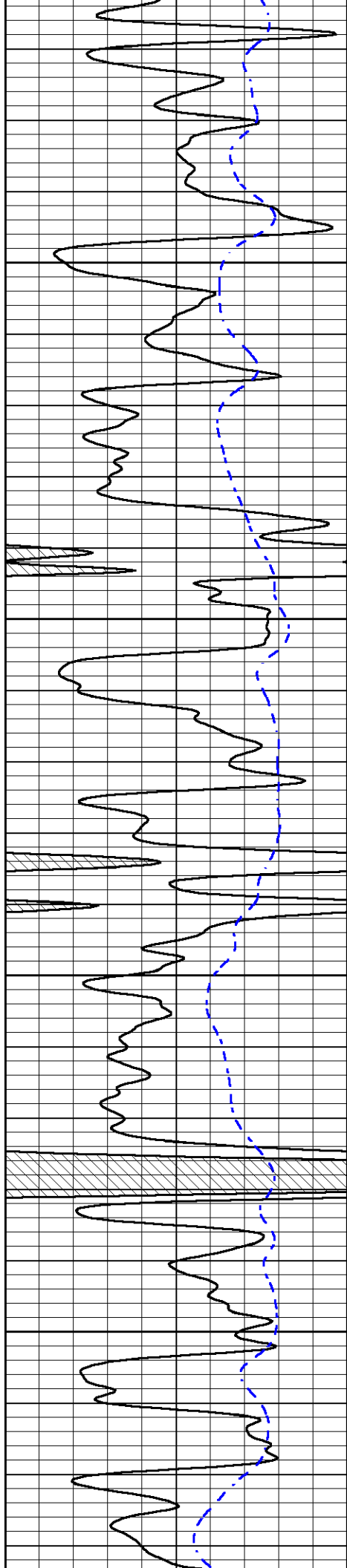
3750

3800

3850

3900



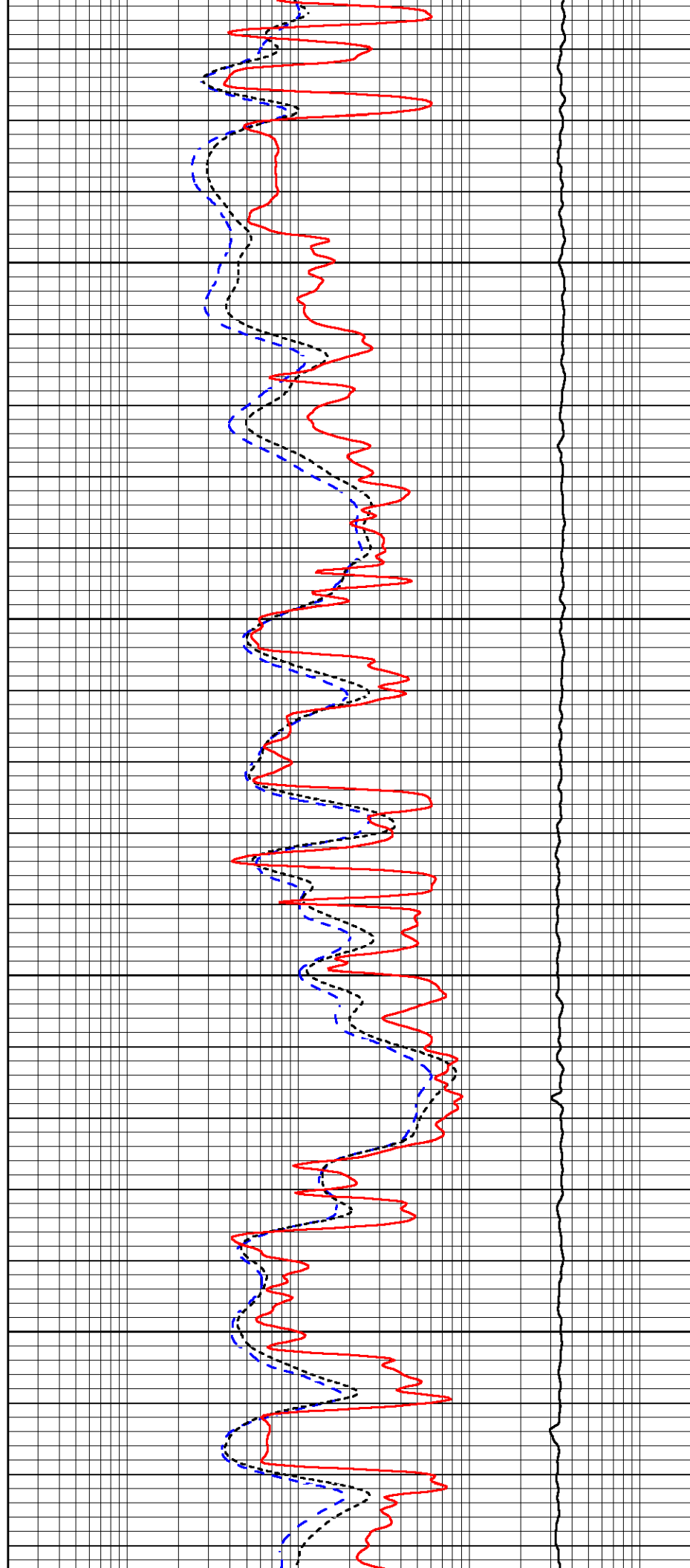


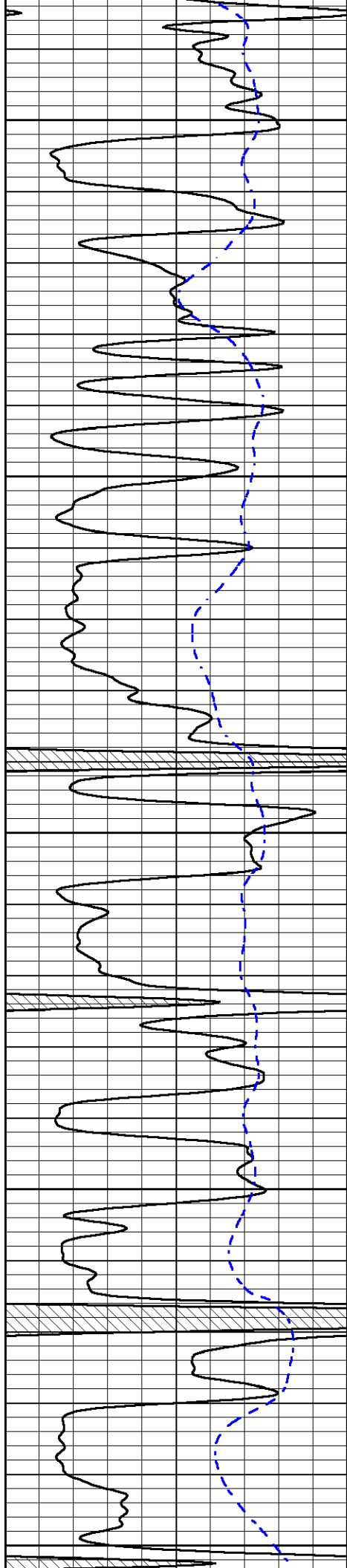
3950

4000

4050

4100





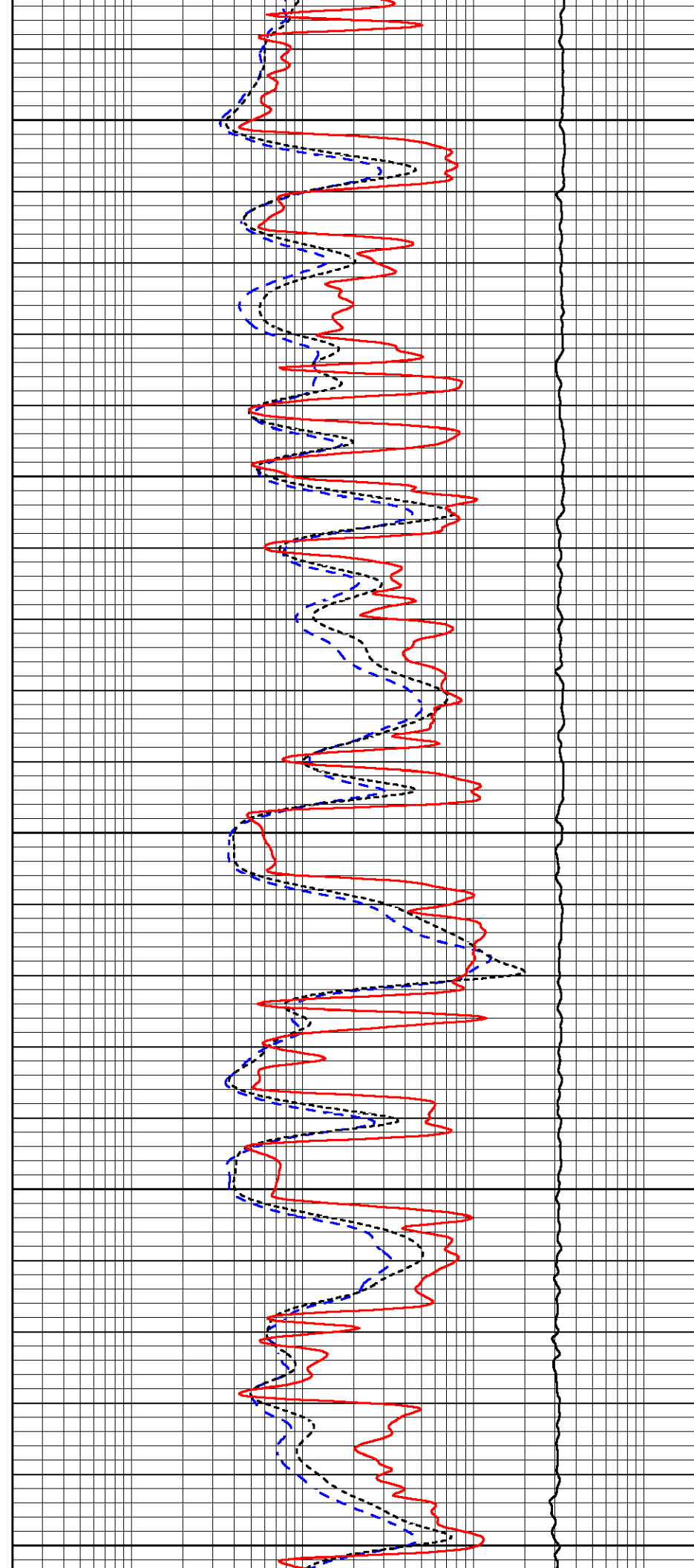
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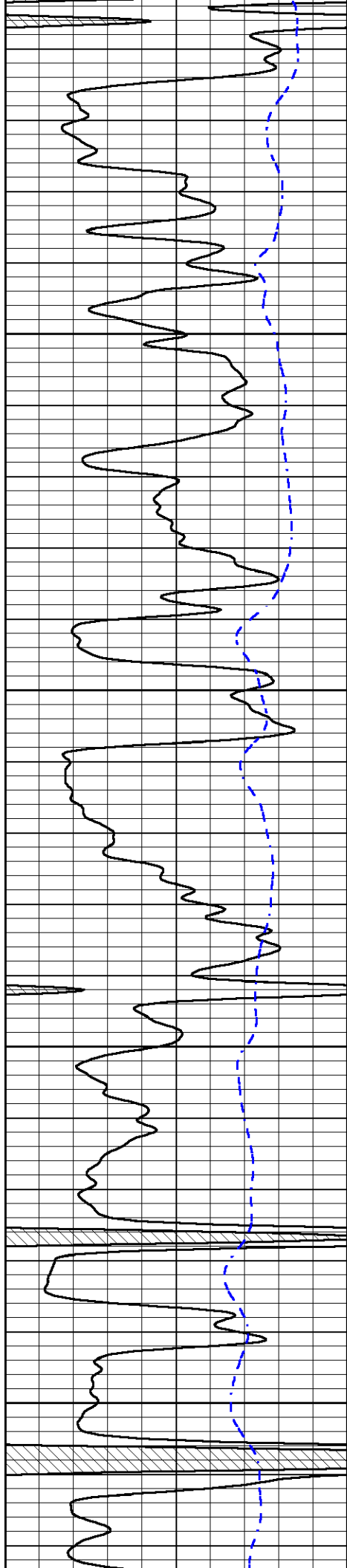
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4250

4300

4350



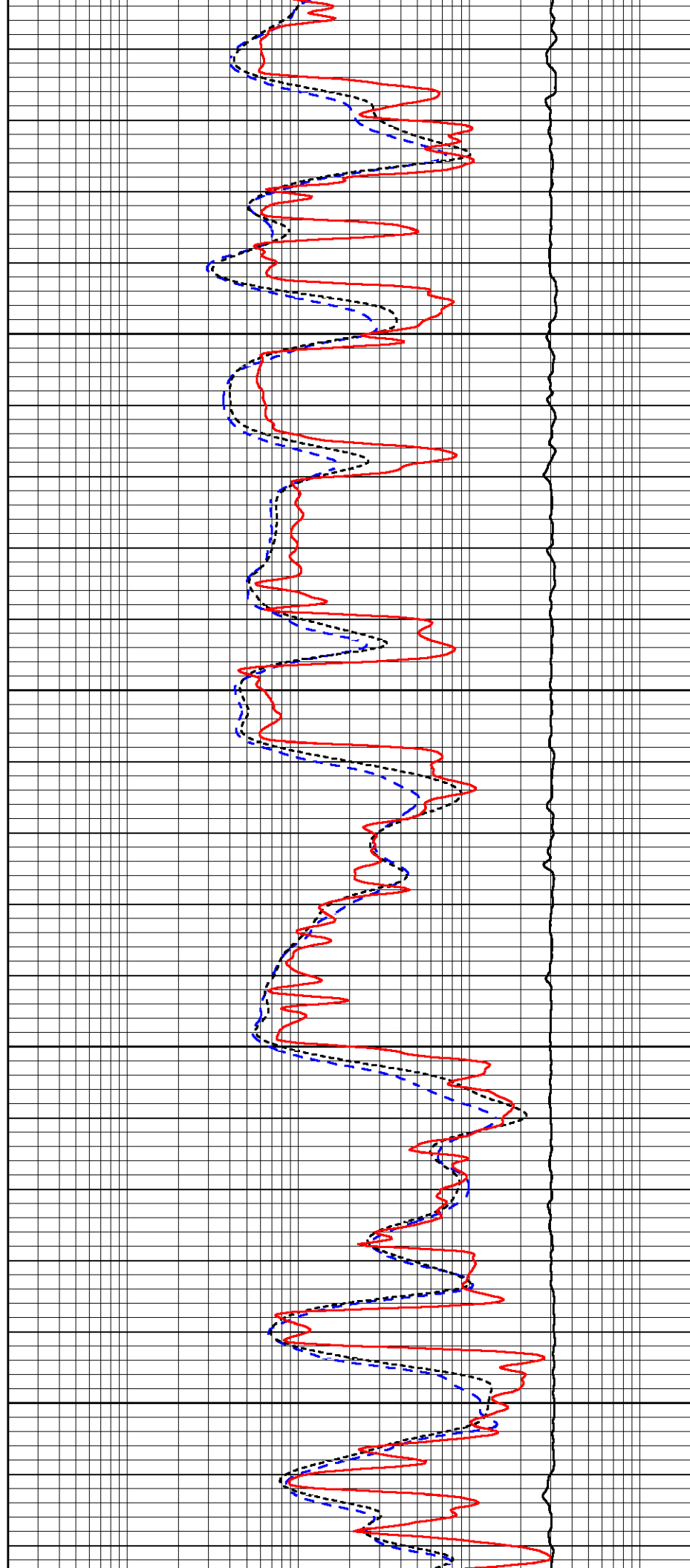


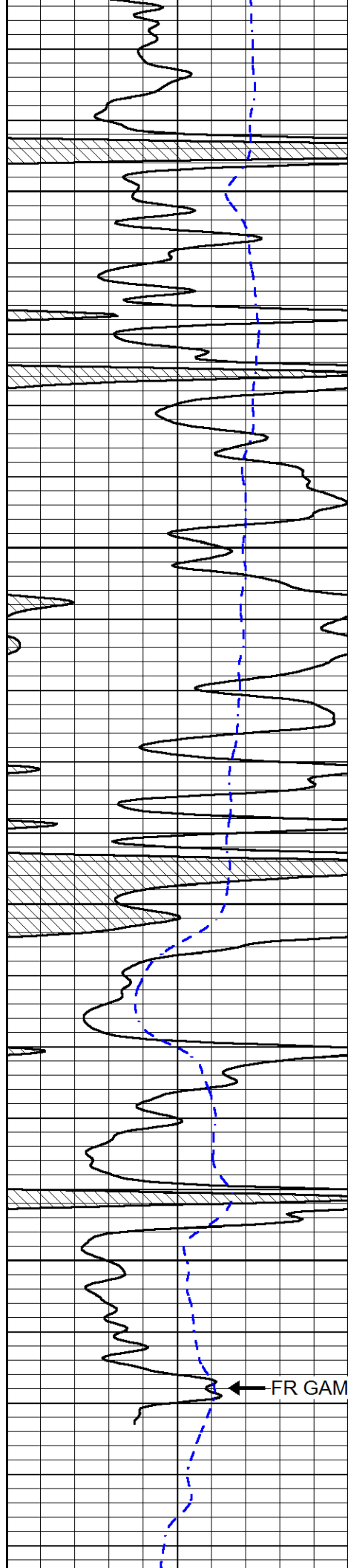
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4450

4500

4550



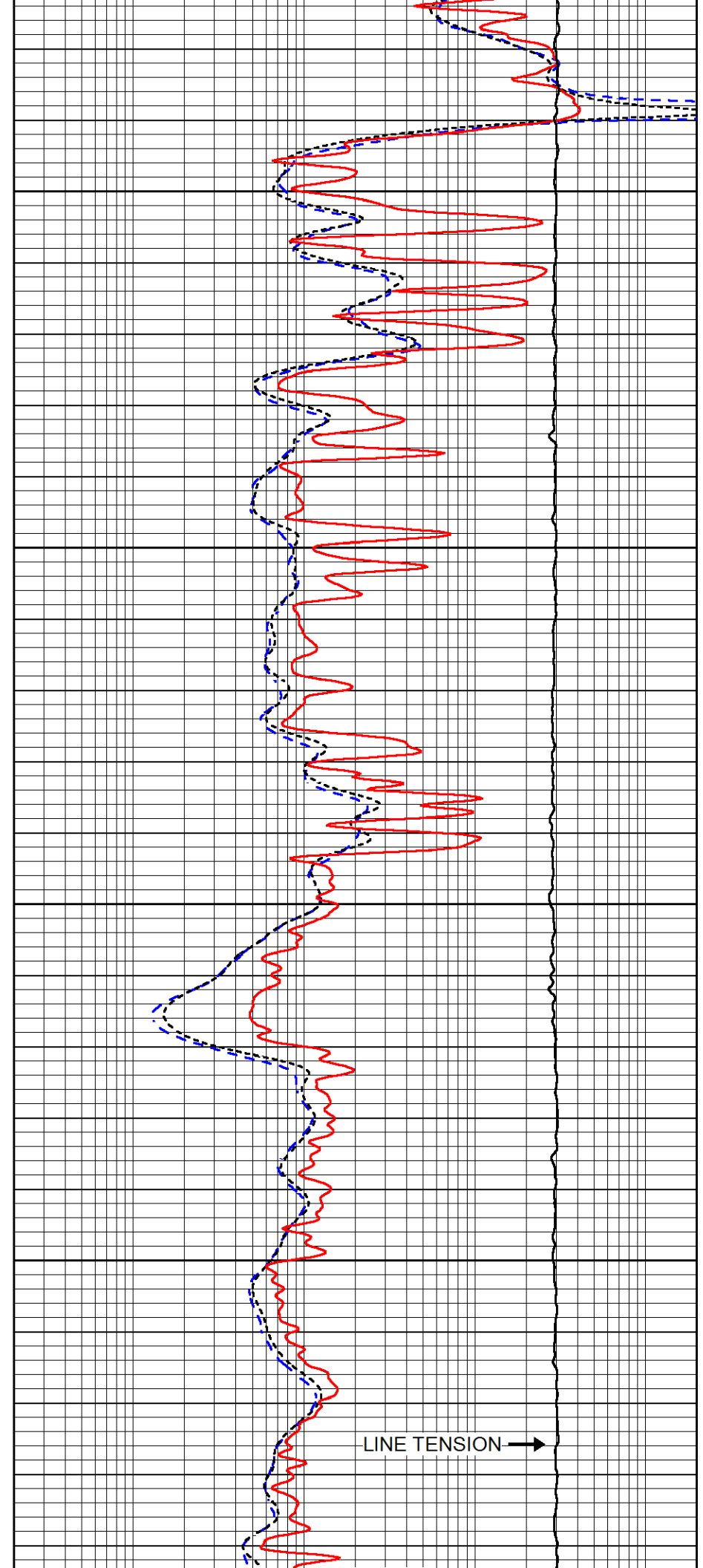


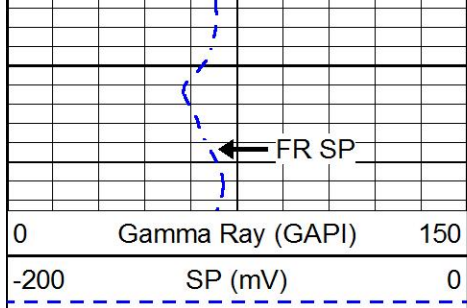
4600

4650

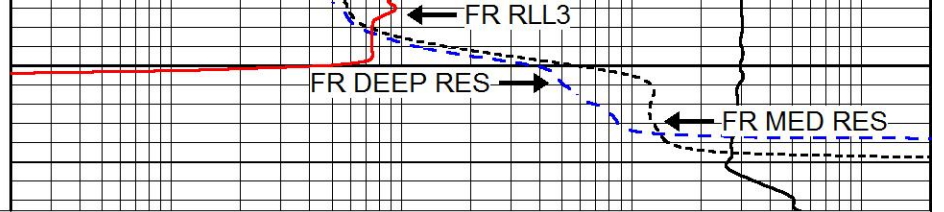
4700

4750





4800



0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

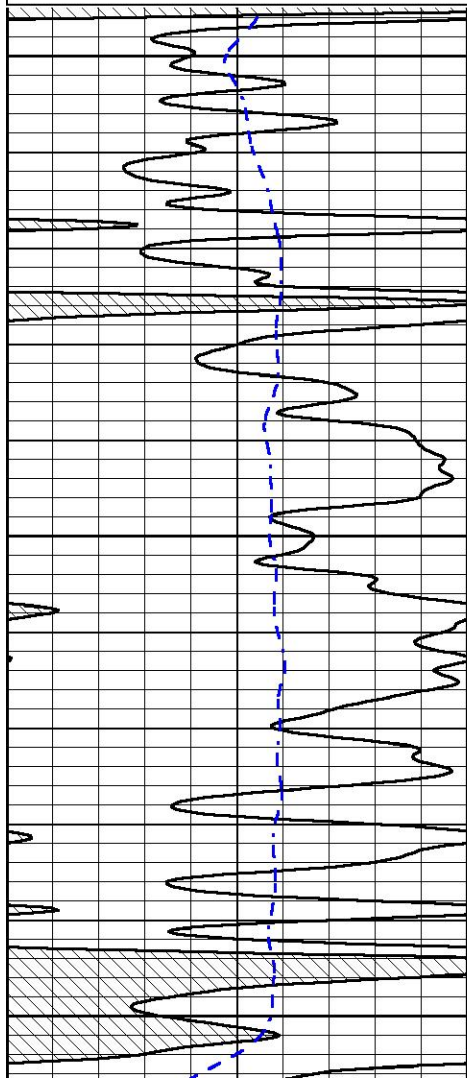


REPEAT SECTION

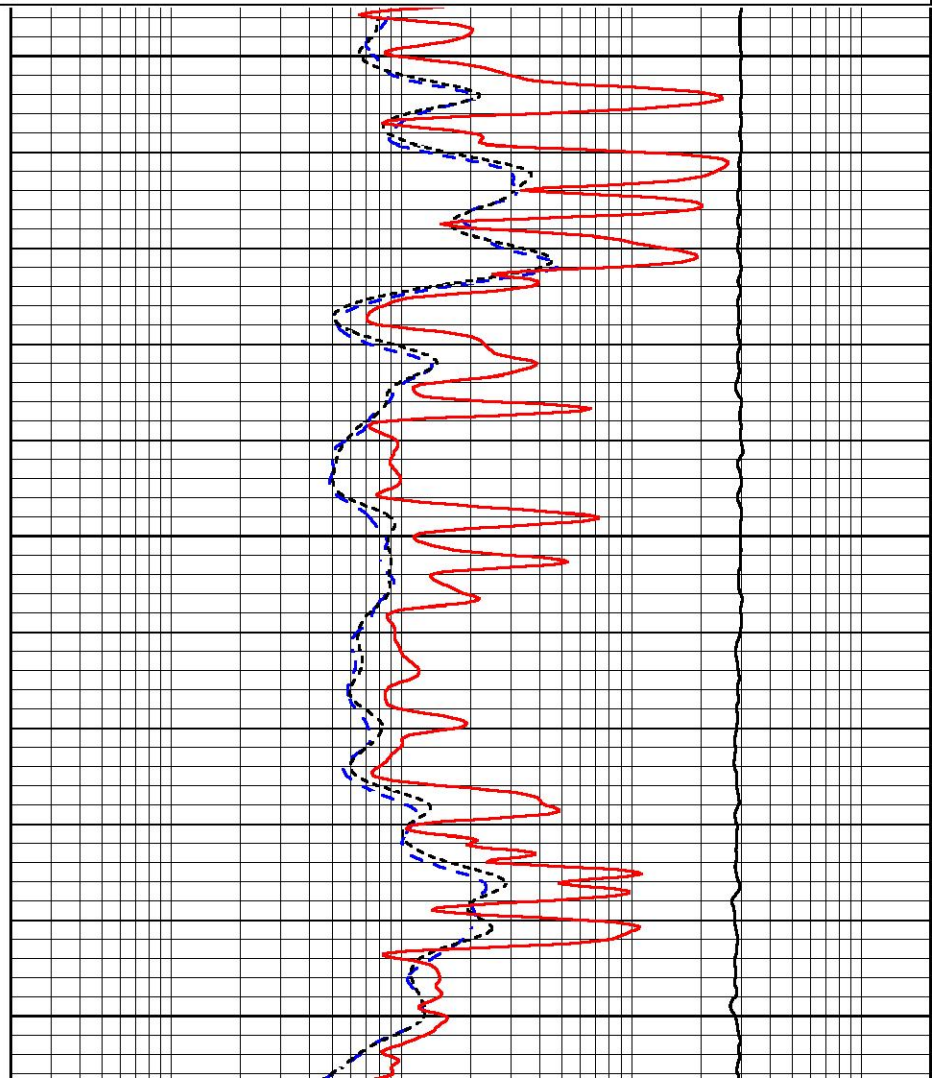
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 Dataset Creation Wed Mar 28 05:01:19 2018
 Charted by Depth in Feet scaled 1:240

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-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

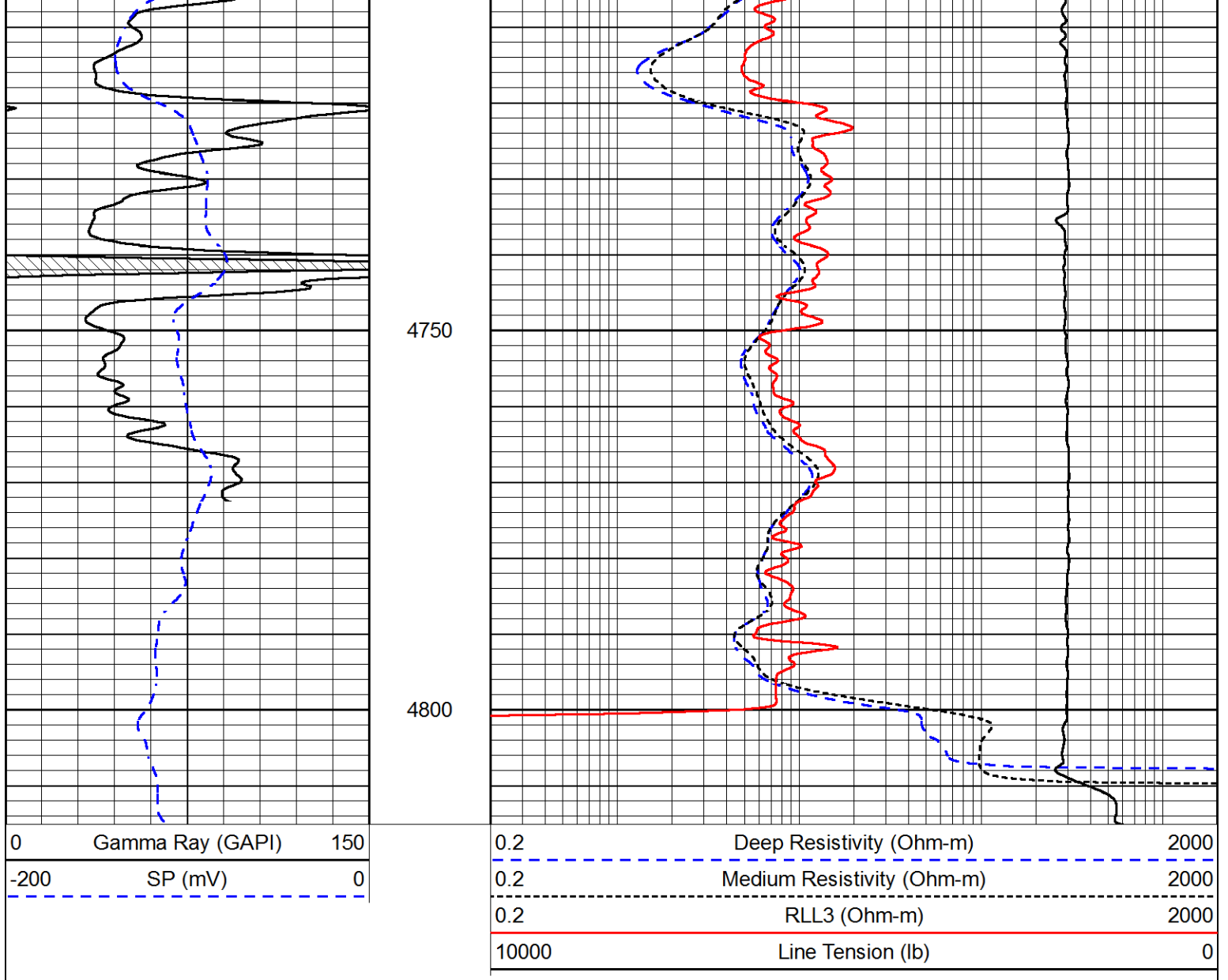


4600



4650

4700



Calibration Report

Database File gulf_henry 1-27.db
 Dataset Pathname STKML/pass3.9
 Dataset Creation Wed Mar 28 05:08:37 2018

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
 Calibration Performed: Sun Feb 18 17:32:17 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.710	-20.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.550	-61.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Sun Mar 18 23:48:42 2018

Readings References Results

	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	28500.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.9000

Compensated Density Calibration Report

Serial-Model: 182-152-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Wed Mar 28 03:05:33 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4992.81	6098.44	cps
Aluminum	2.672	g/cc	945.67	3945.60	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.533		
	Size		Reading		
Small Ring	4.50	in	1.09		
Large Ring	15.00	in	1.03		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: FRI MAR 9 10:30:30 2018

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500


Gamma Ray Calibration Report

Serial Number: 89
Tool Model: M&W
Calibration Performed: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps

	Company	GULF EXPLORATION, LLC
	Well	HENRY #1-27
	Field	UNNAMED
	County	THOMAS
	State	KANSAS



MICRORESISTIVITY LOG

Company GULF EXPLORATION, LLC
Well HENRY #1-27
Field UNNAMED
County THOMAS
State KANSAS

Location: API #: 15-193-21011-00-00
 1622' FSL & 1256' FEL
 SEC 27 TWP 7S RGE 35W
Permanent Datum GROUND LEVEL Elevation 3213'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services CNL/CDL DIL/BHCS
Elevation K.B. 3218' D.F. N/A G.L. 3213'

Date	3/28/2018
Run Number	ONE
Depth Driller	4806'
Depth Logger	4810'
Bottom Logged Interval	4809'
Top Log Interval	2000'
Casing Driller	8.625" @ 305'
Casing Logger	300'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	2900
Density / Viscosity	9.2 57
pH / Fluid Loss	9.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.60 @ 50
Rmt @ Meas. Temp	0.45 @ 50
Rmc @ Meas. Temp	0.81 @ 50
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.24 @ 124
Operating Rig Time	5 HOURS
Max Rec. Temp. F	124
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	KEITH REAVIS

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
 LEVANT,
 2 NORTH ON RD 11 FROM THE RR TRACKS,
 WEST INTO NORTH OF FARMHOUSE

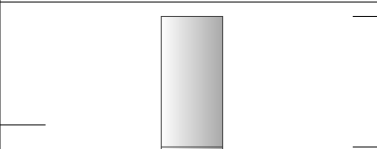
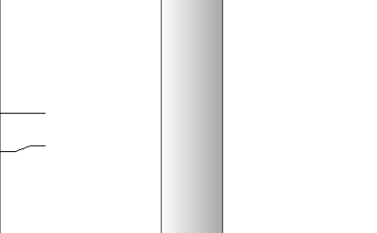
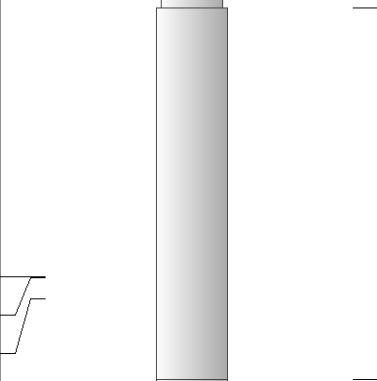
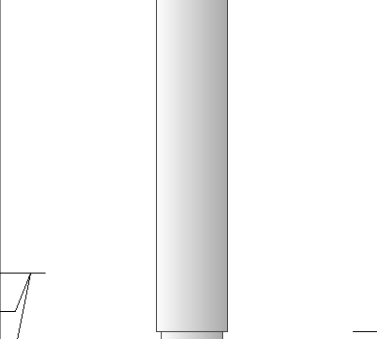
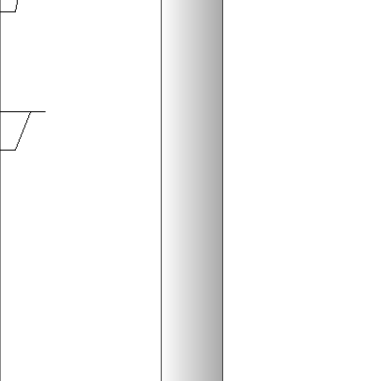
Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew Engineer: D. SCHMIDT Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: KEITH REAVIS Secondary Witness: Secondary Witness: Secondary Witness:
---	--

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-144	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	4611	124	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (182-152)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD 8.00

CILM 4.70

SP 0.20

DIL-PSI HIGH TEMP (933 (HT))

18.50

3.50

220.00

Dataset: gulf_henry 1-27.db: field/well/STKML/pass3.9
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

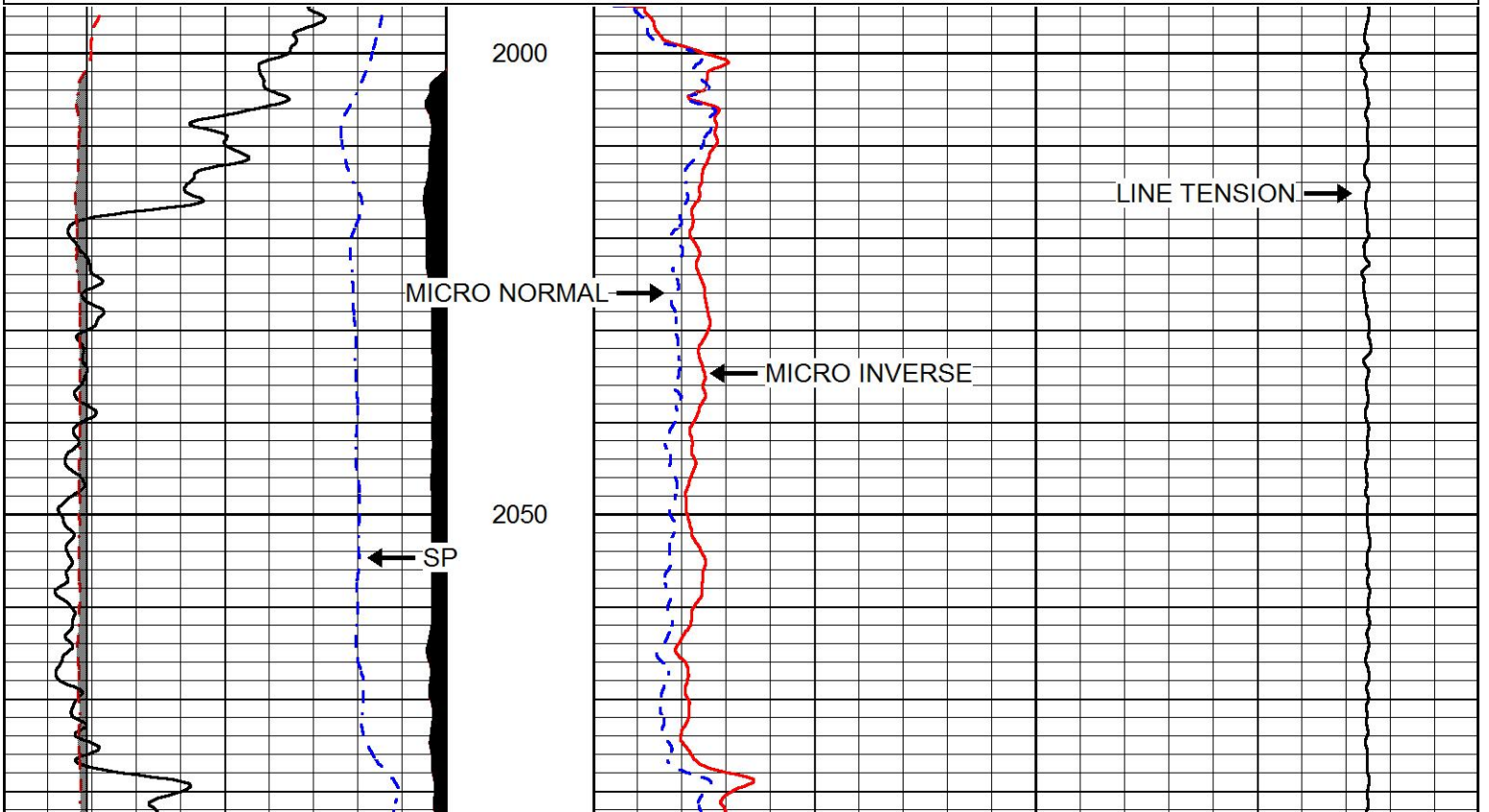


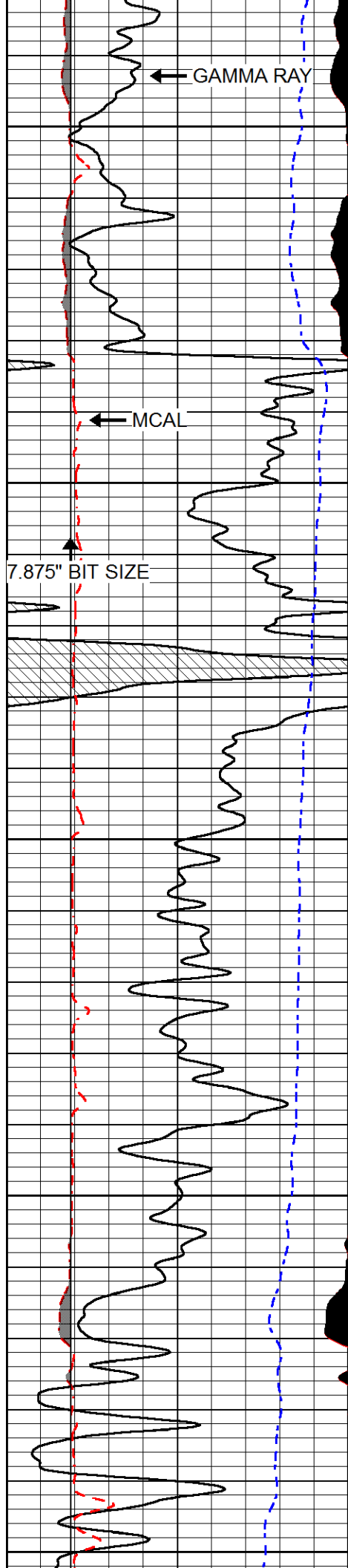
MAIN PASS

Database File gulf_henry 1-27.db
 Dataset Pathname STKML/pass3.9
 Presentation Format micro
 Dataset Creation Wed Mar 28 05:08:37 2018
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcAl (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0





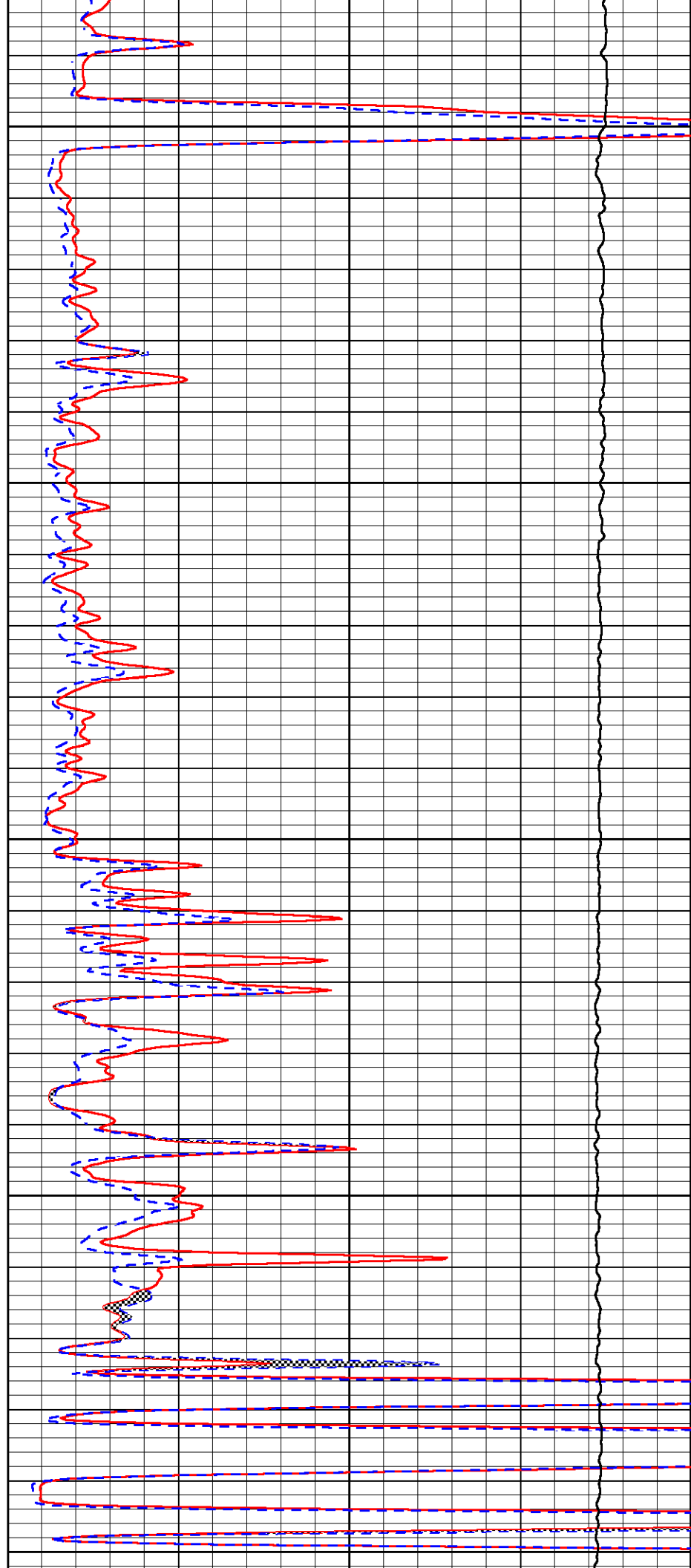
2100

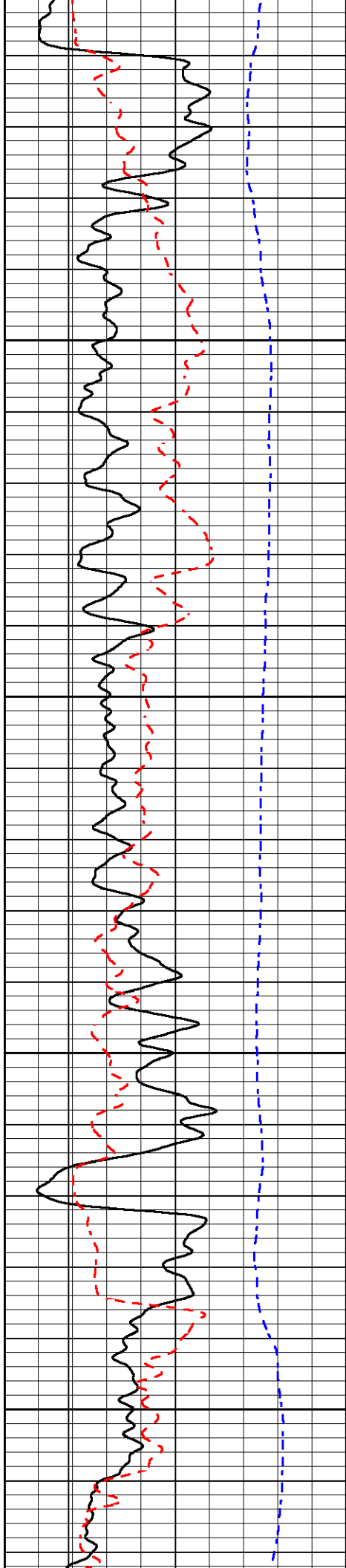
2150

2200

2250

2300



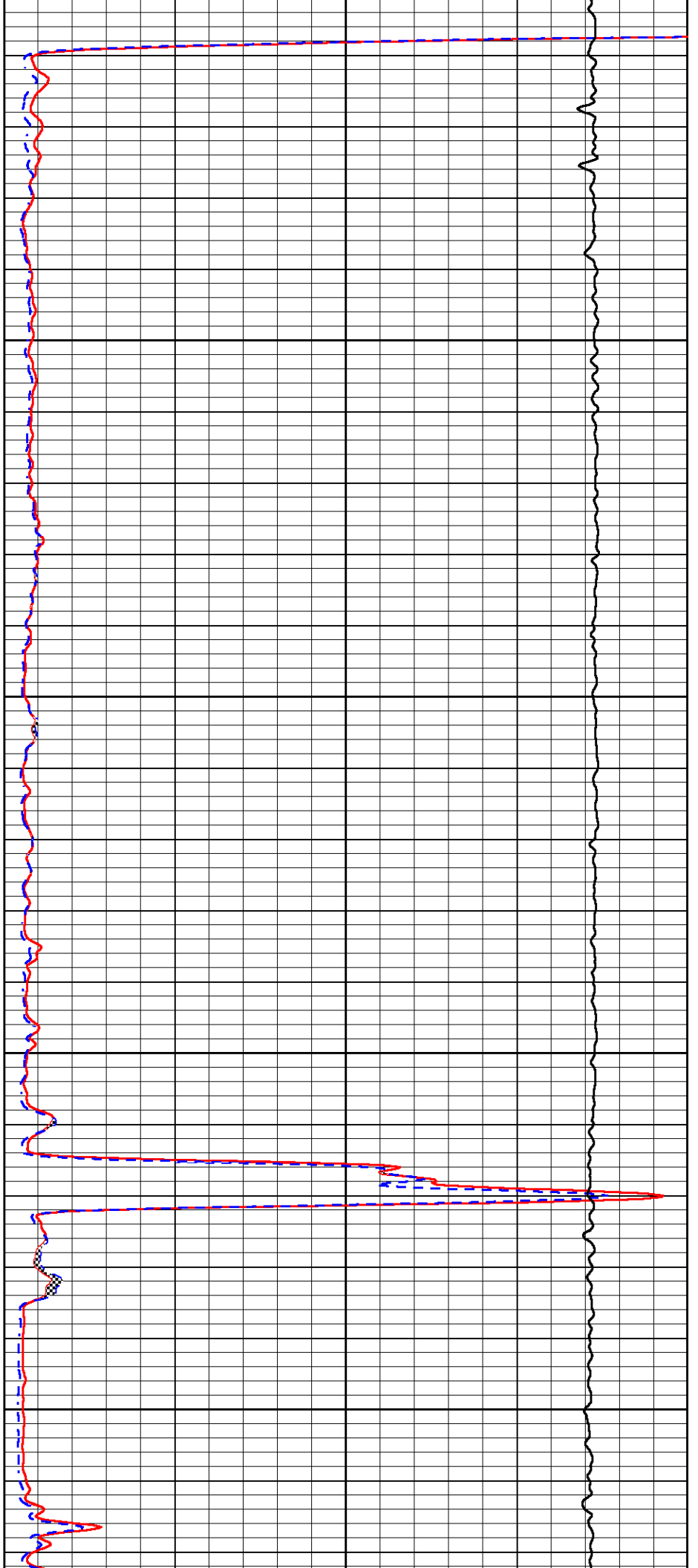


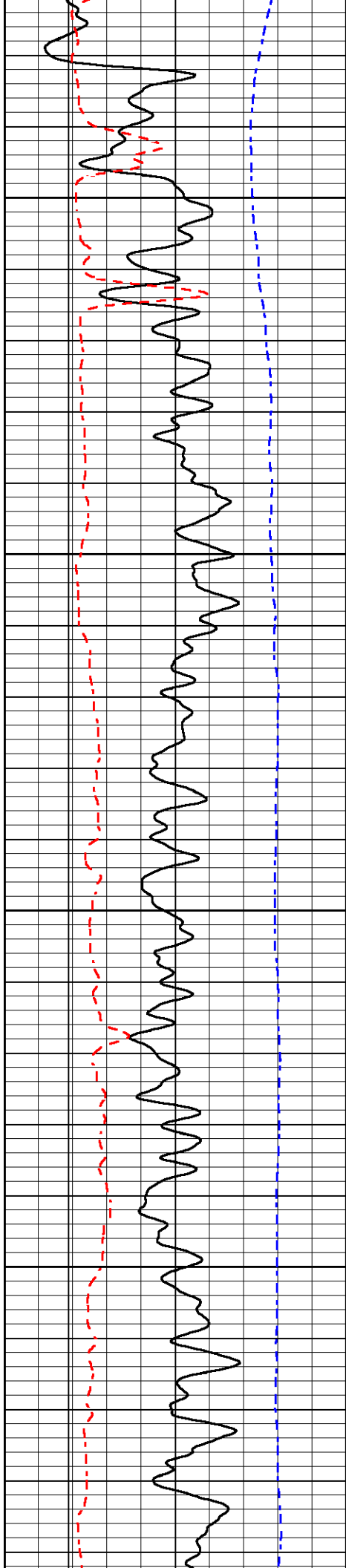
2350

2400

2450

2500



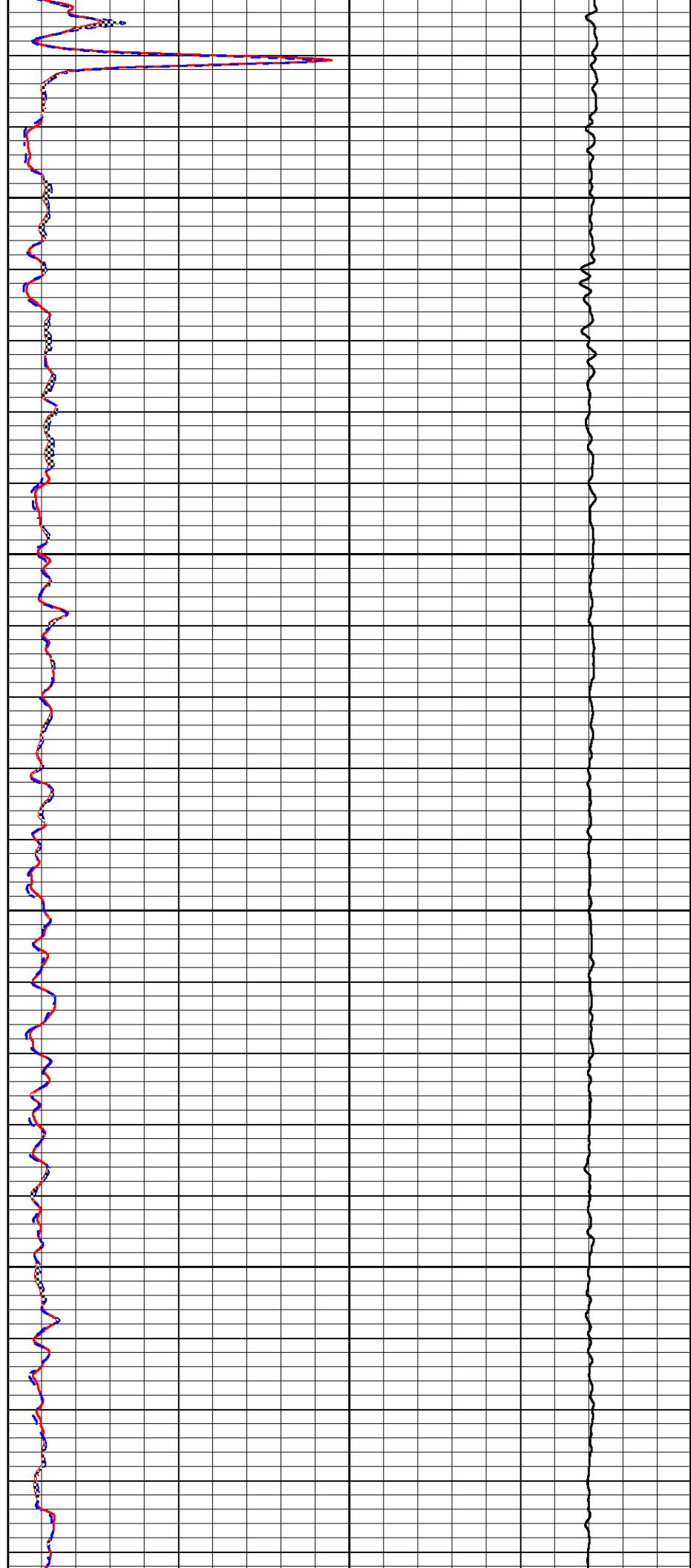


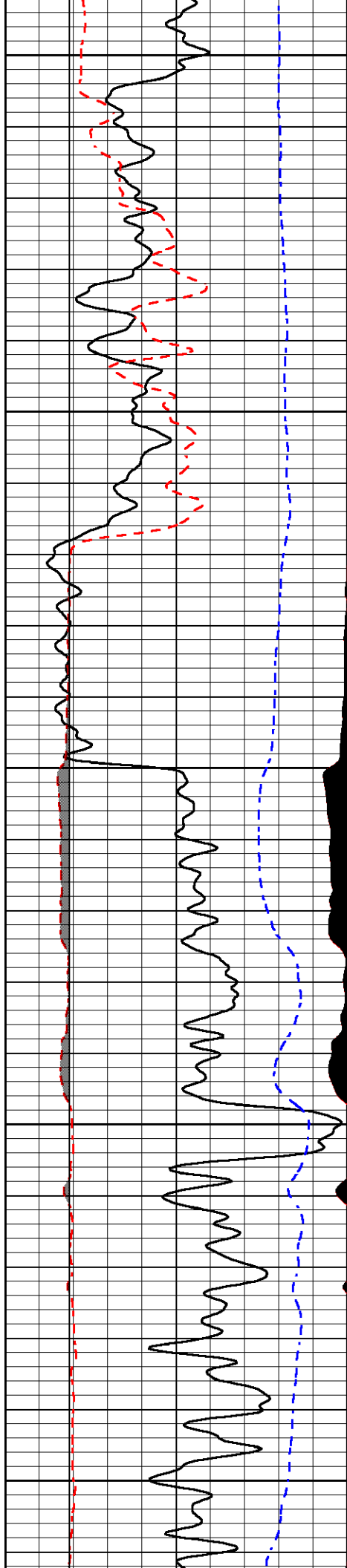
2550

2600

2650

2700





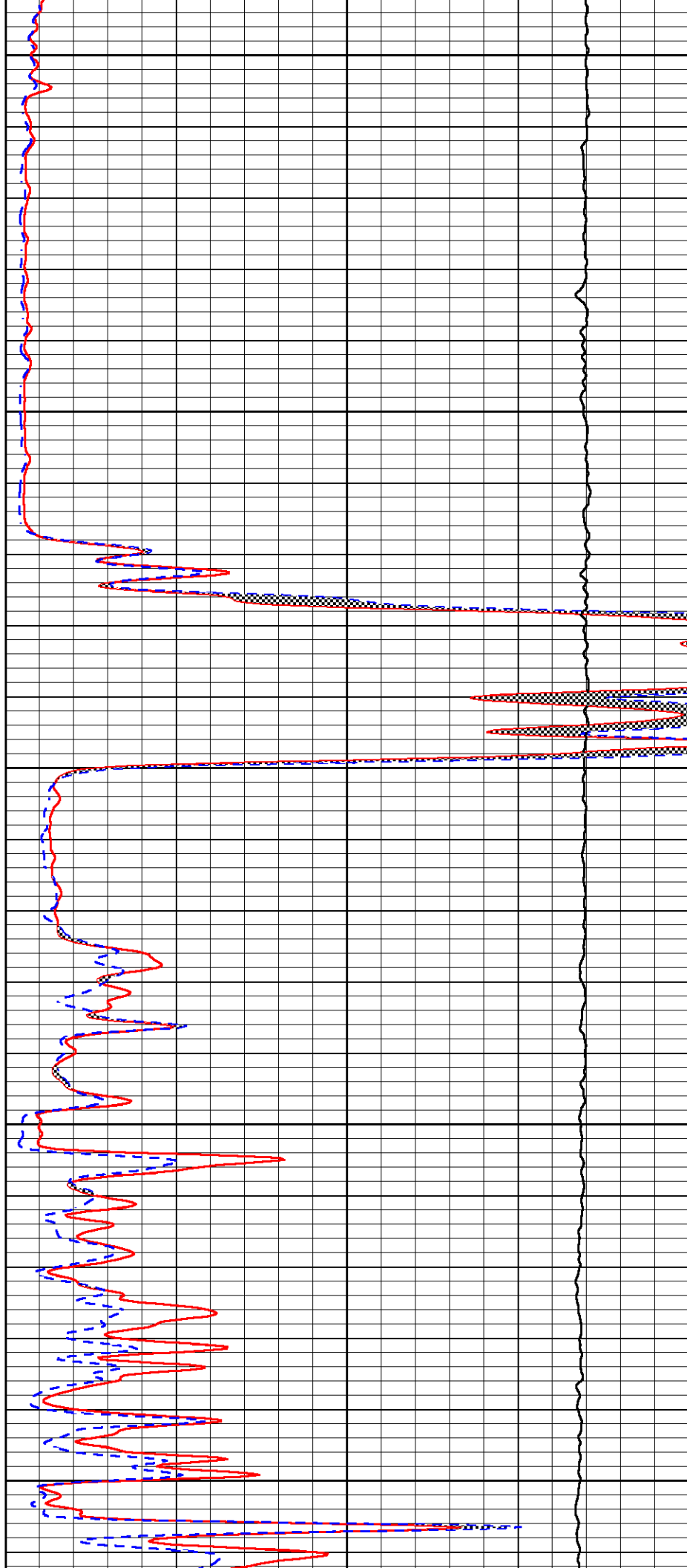
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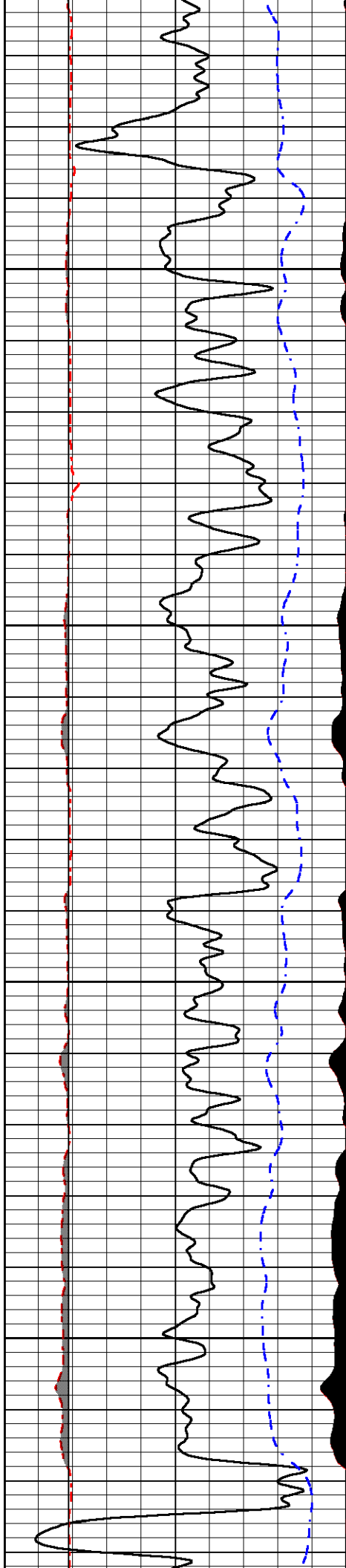
2800

2850

2900

2950



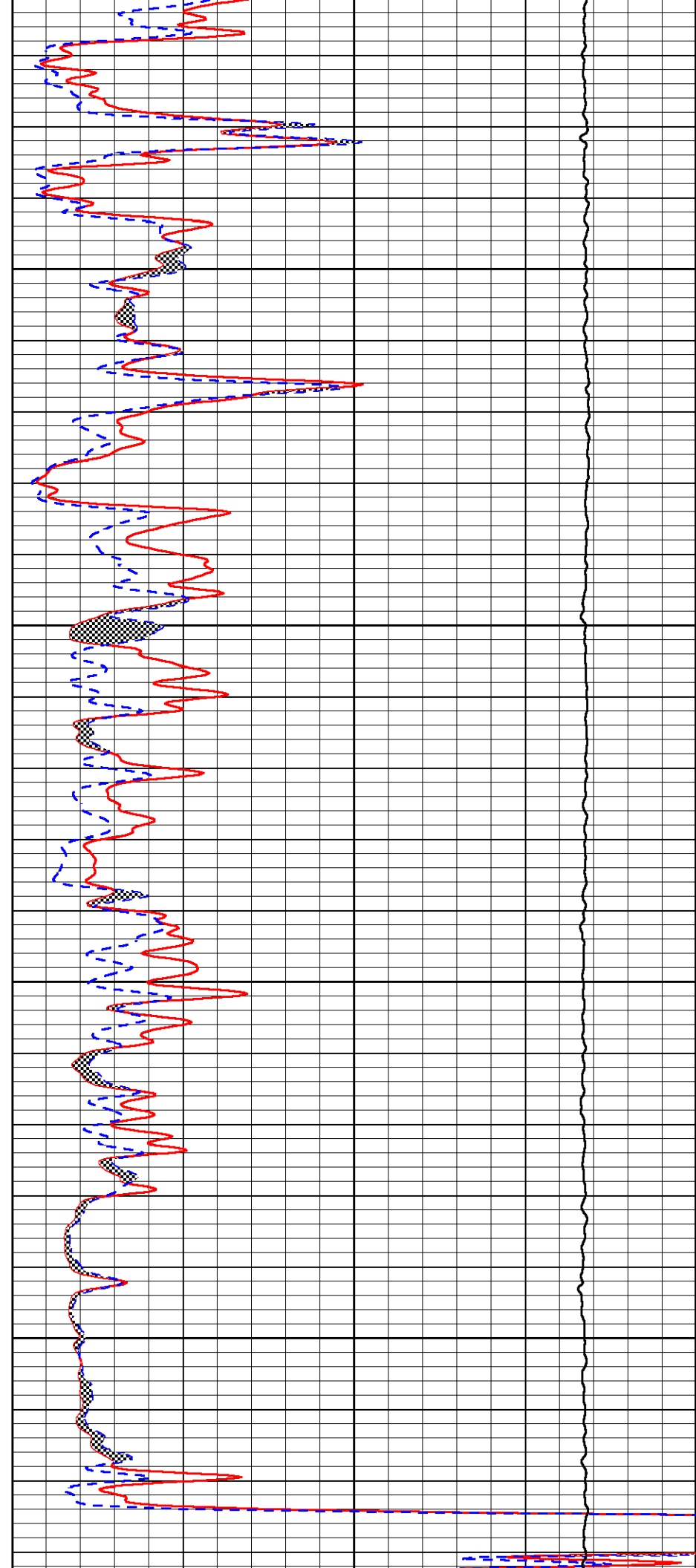


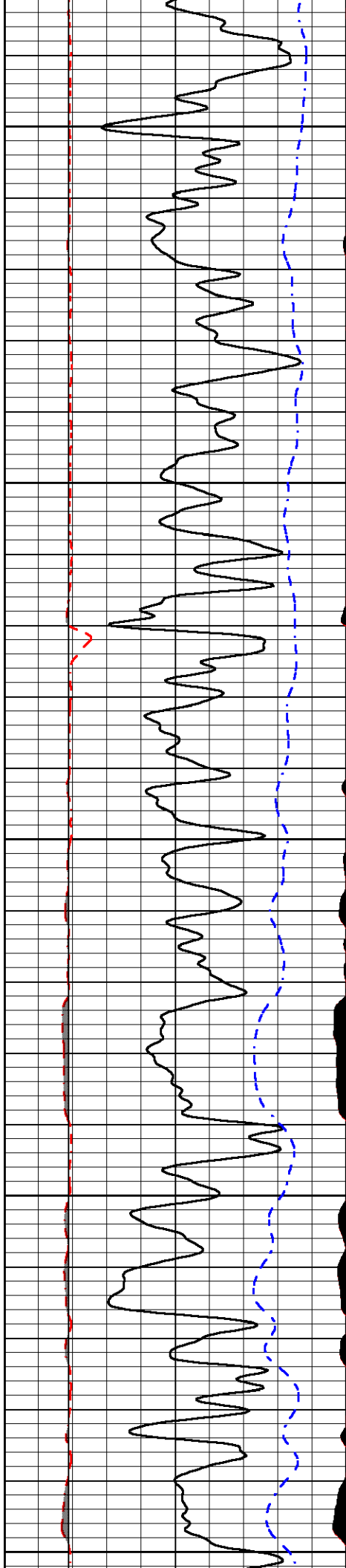
3000

3050

3100

3150





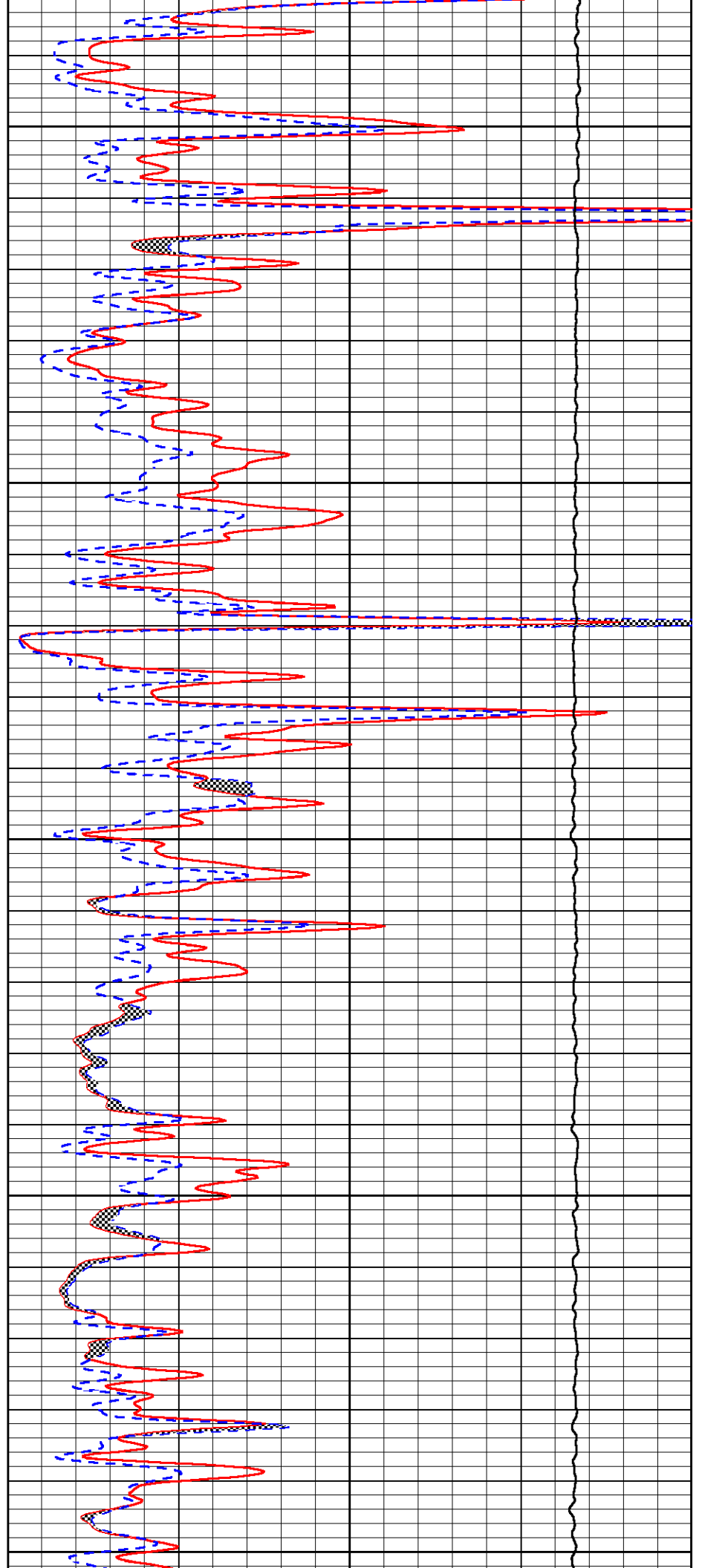
3200

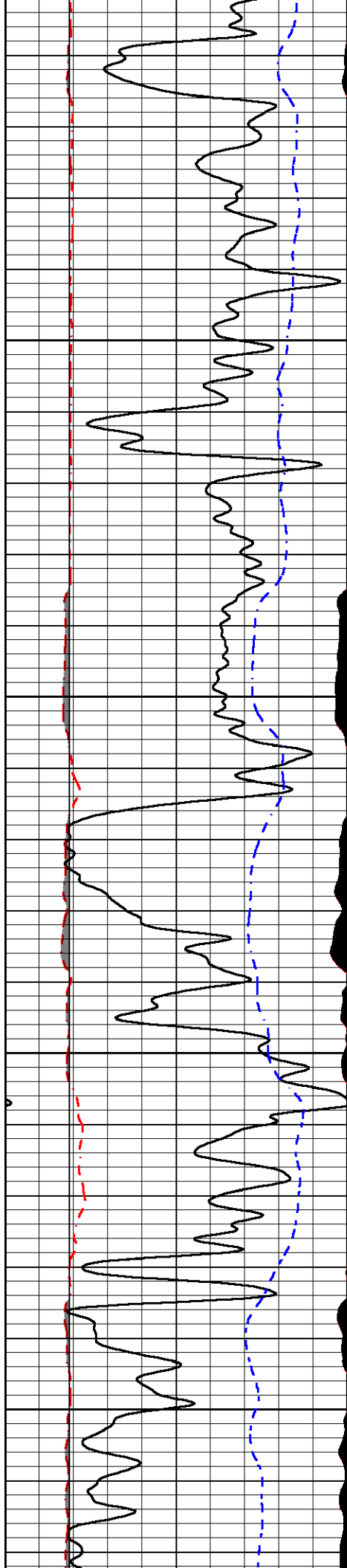
3250

3300

3350

3400



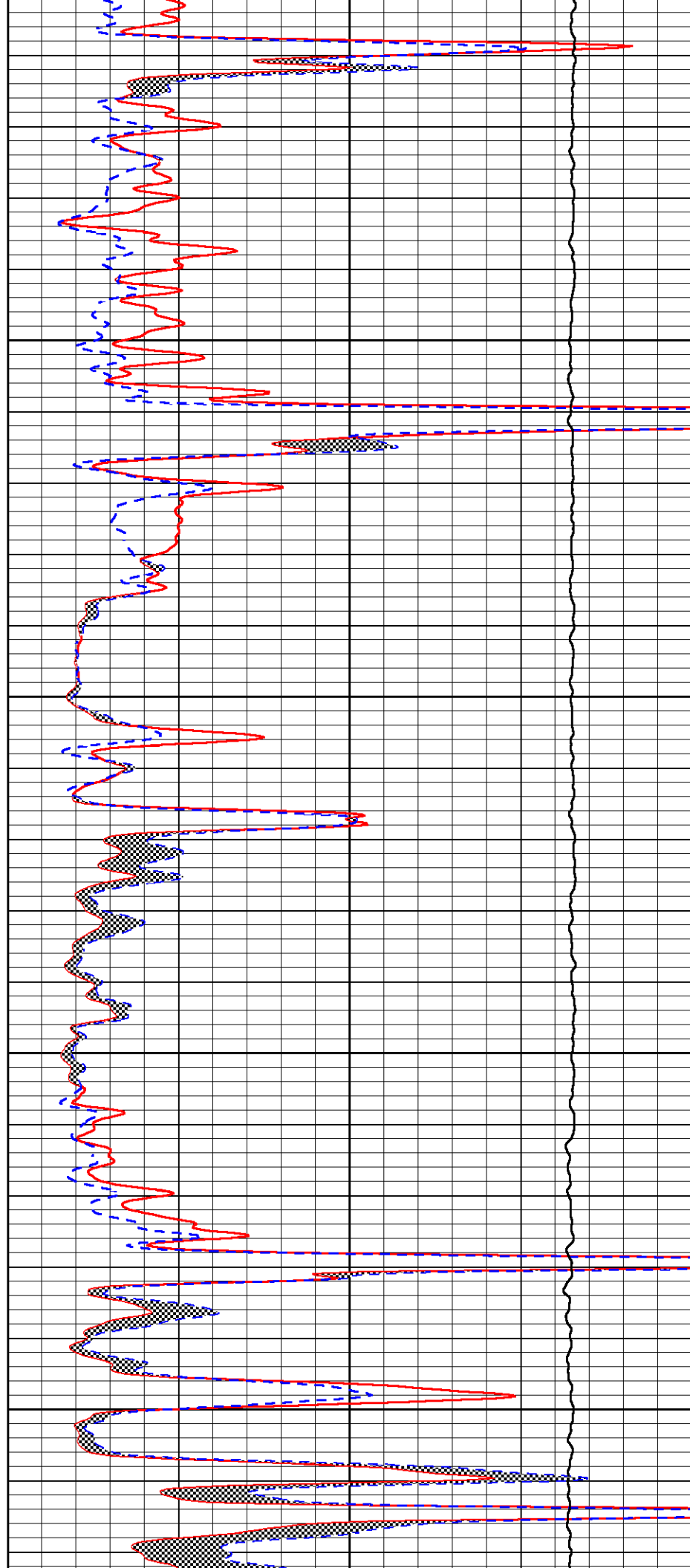


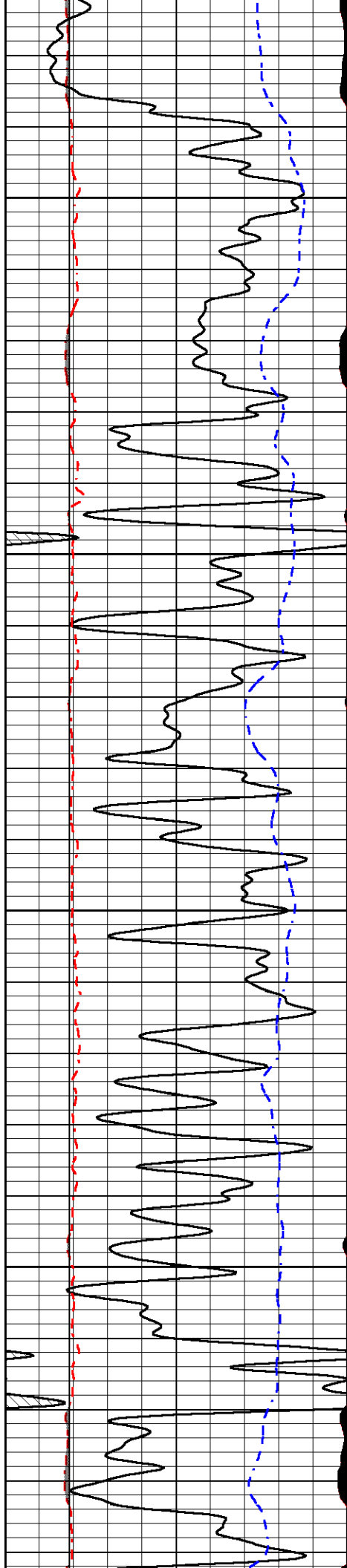
3450

3500

3550

3600



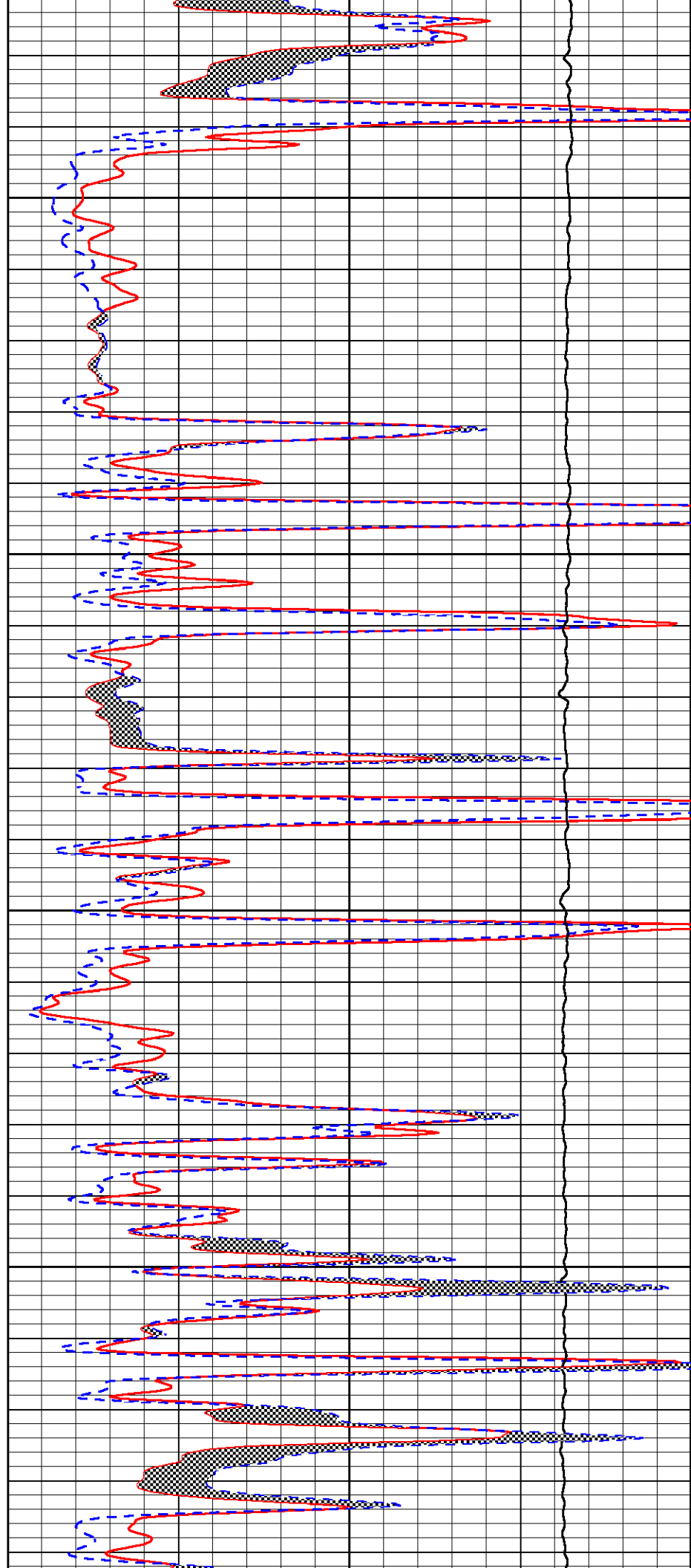


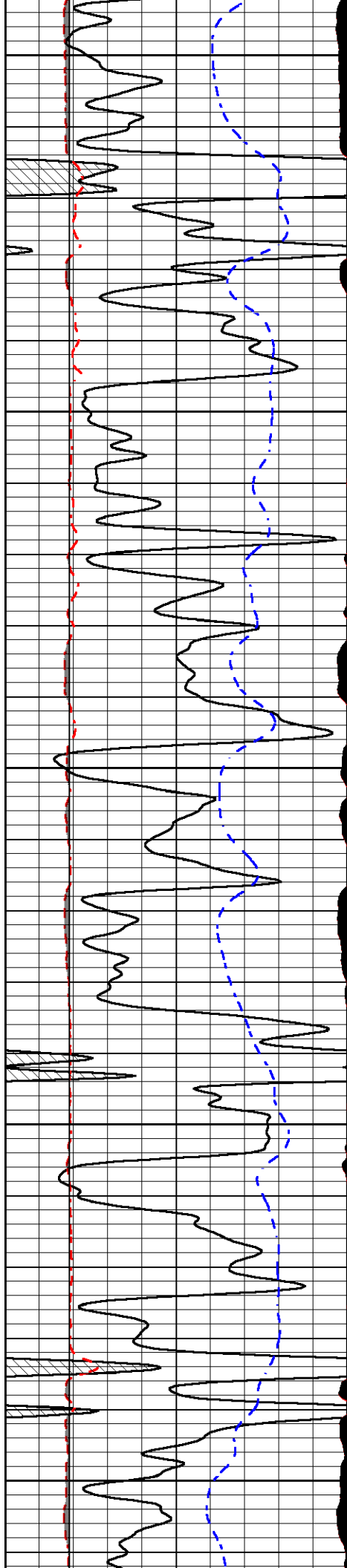
3650

3700

3750

3800





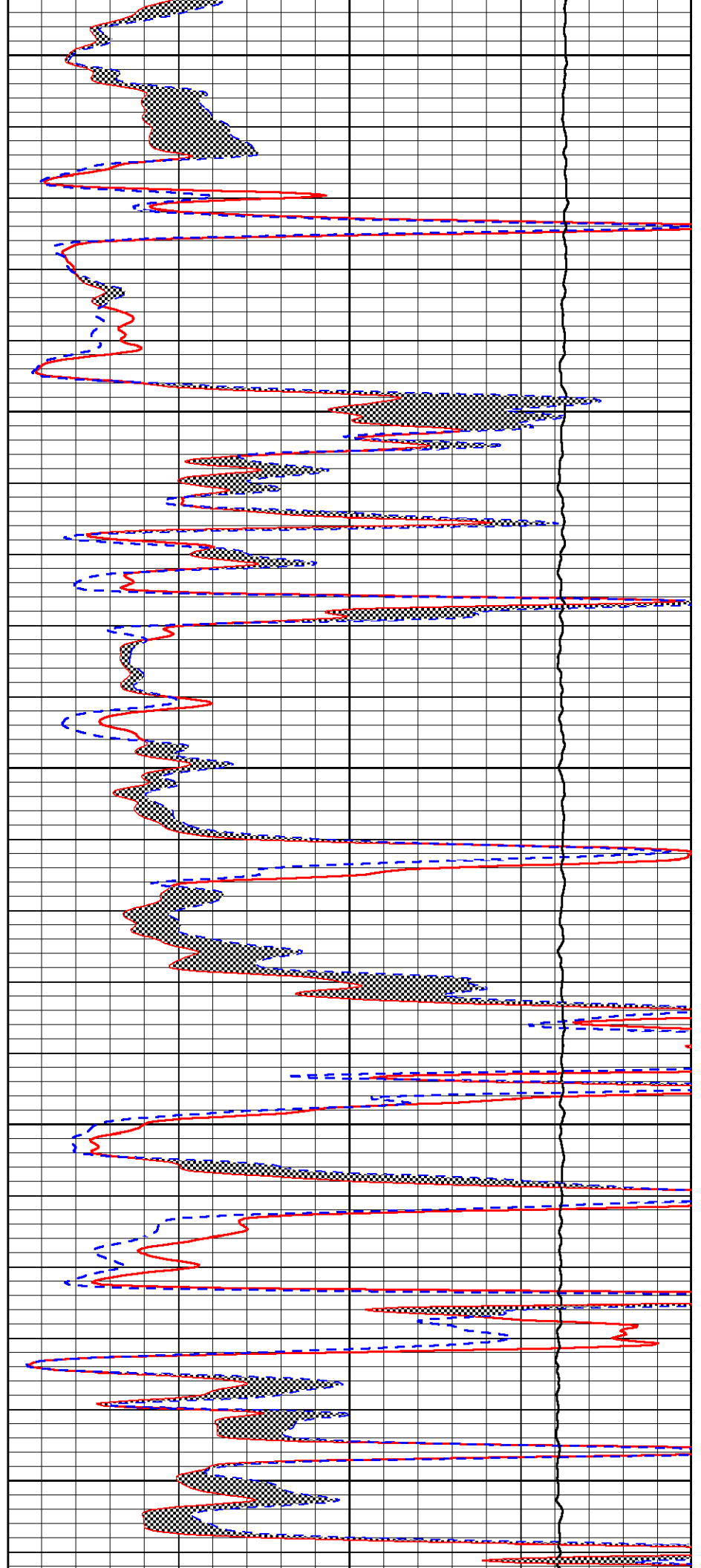
3850

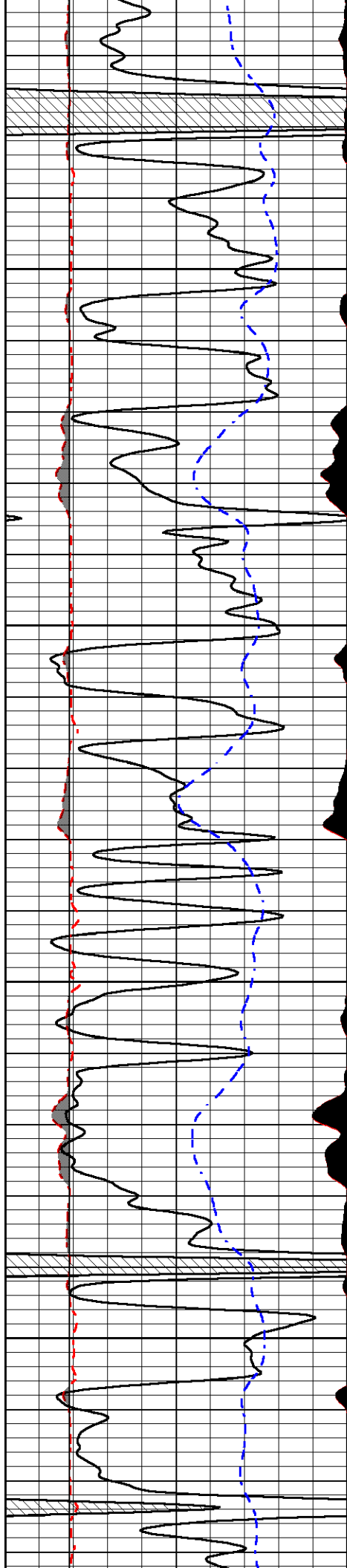
3900

3950

4000

4050



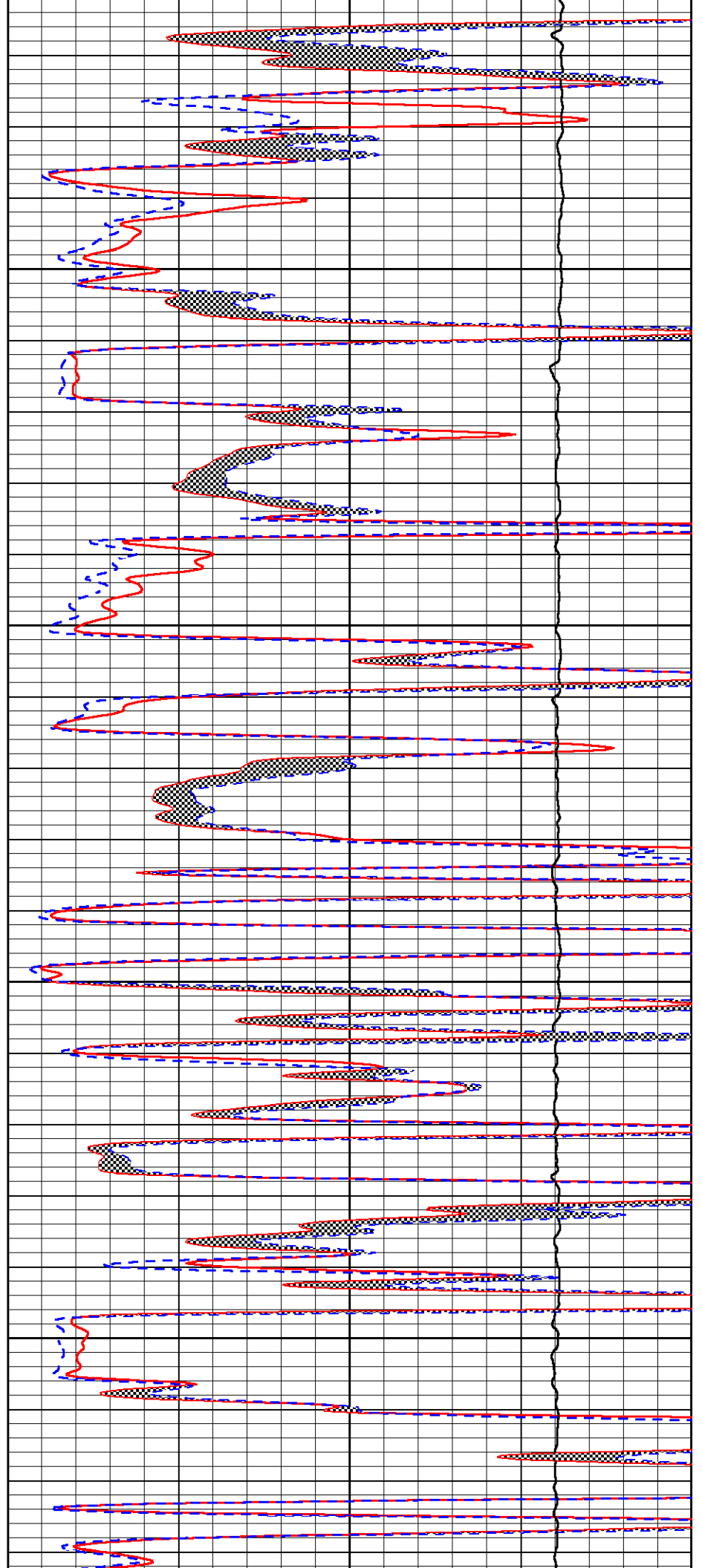


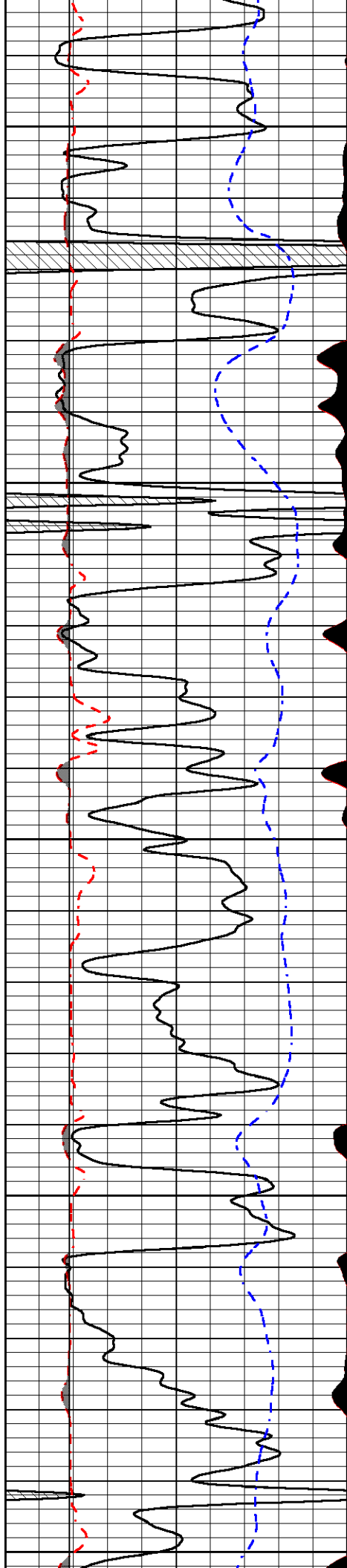
4100

4150

4200

4250





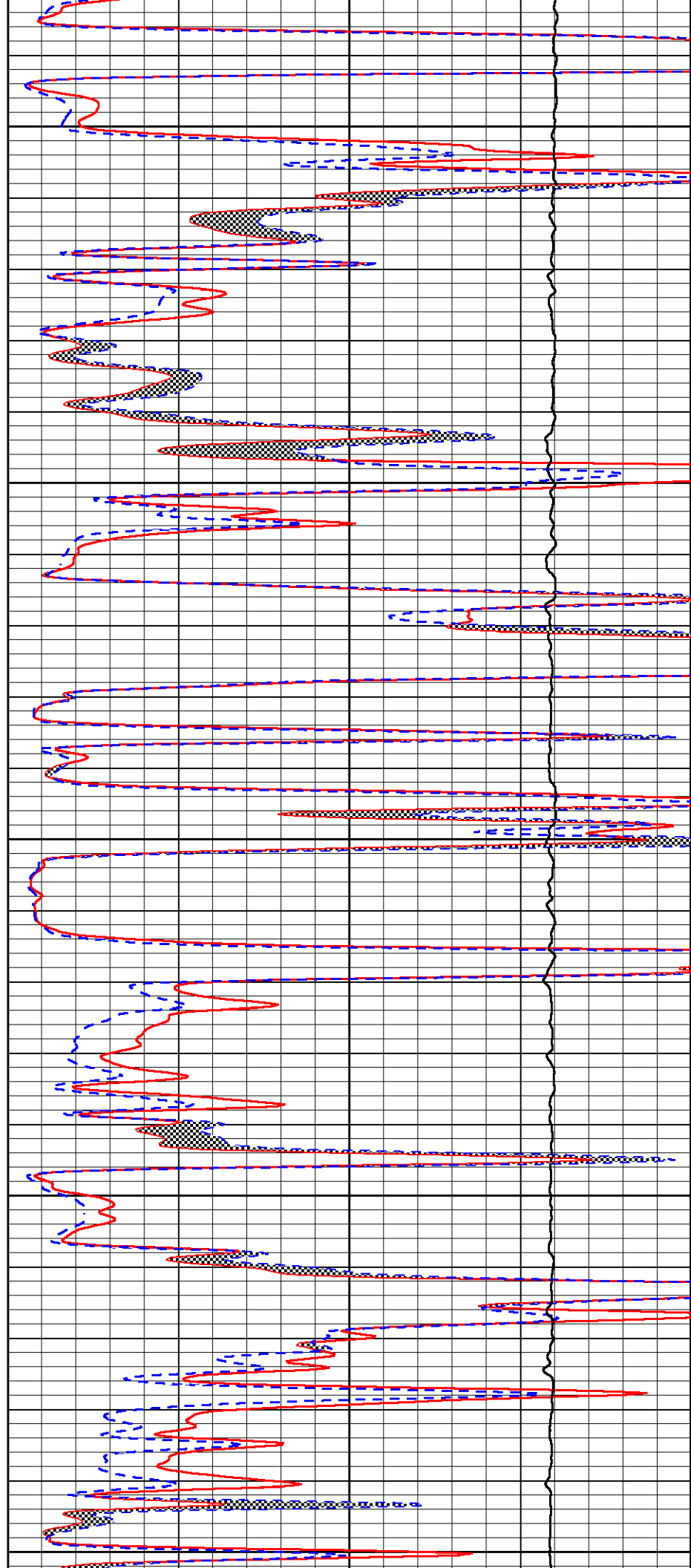
4300

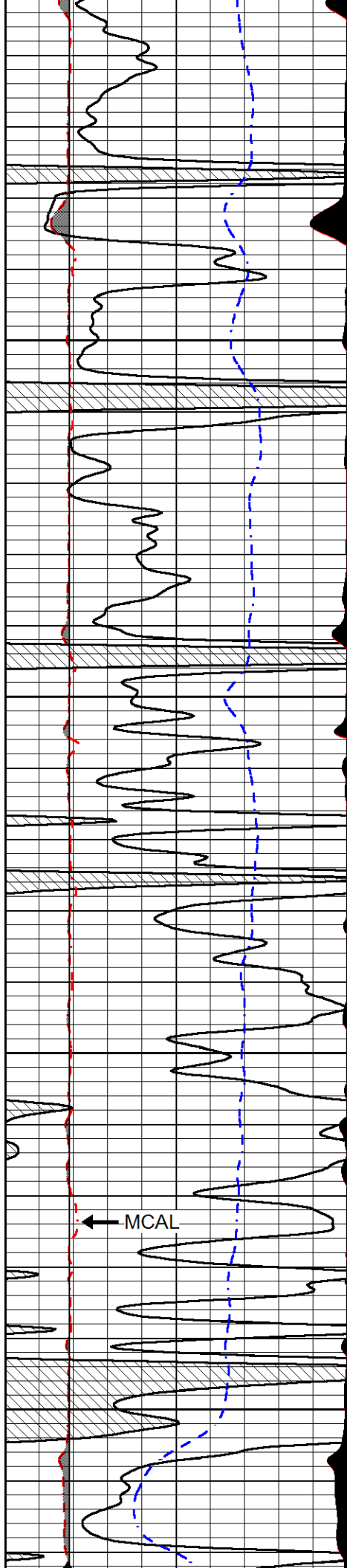
4350

4400

4450

4500



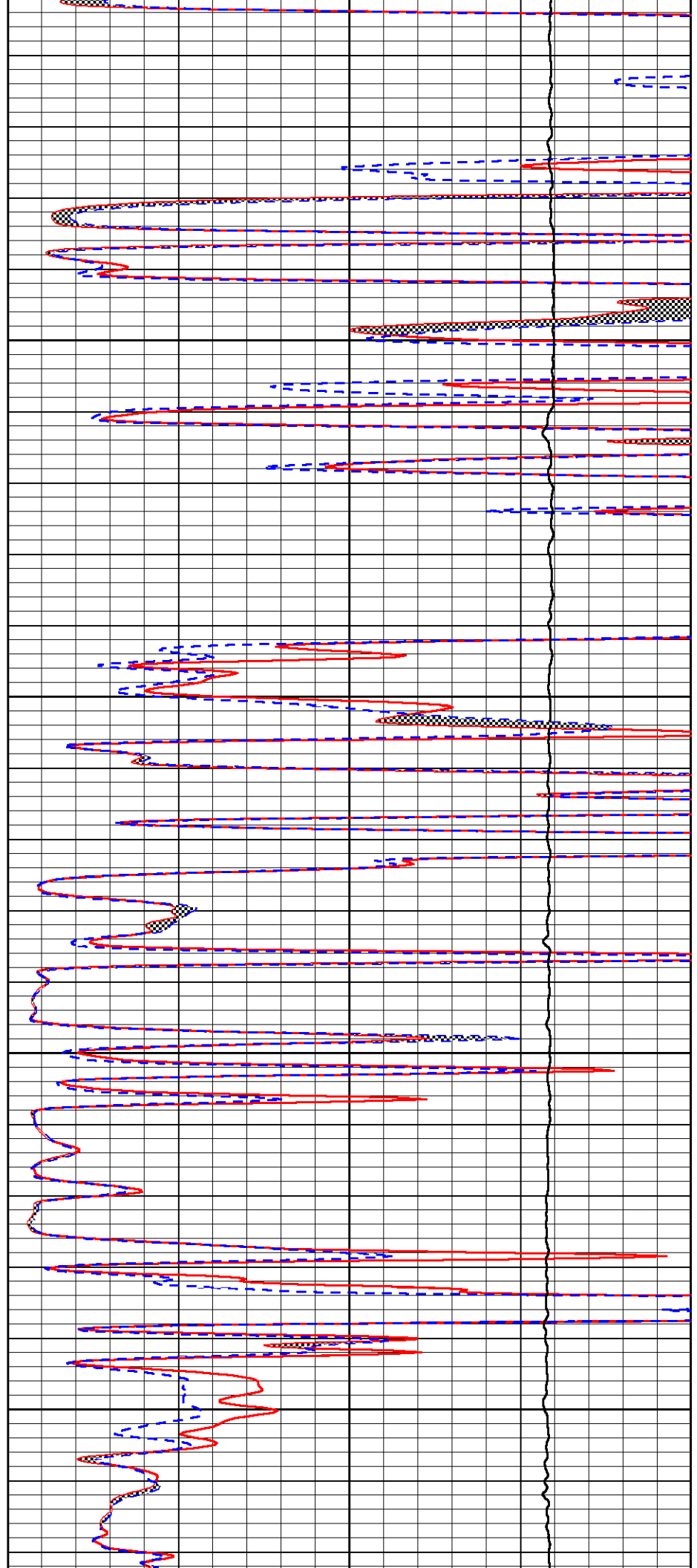


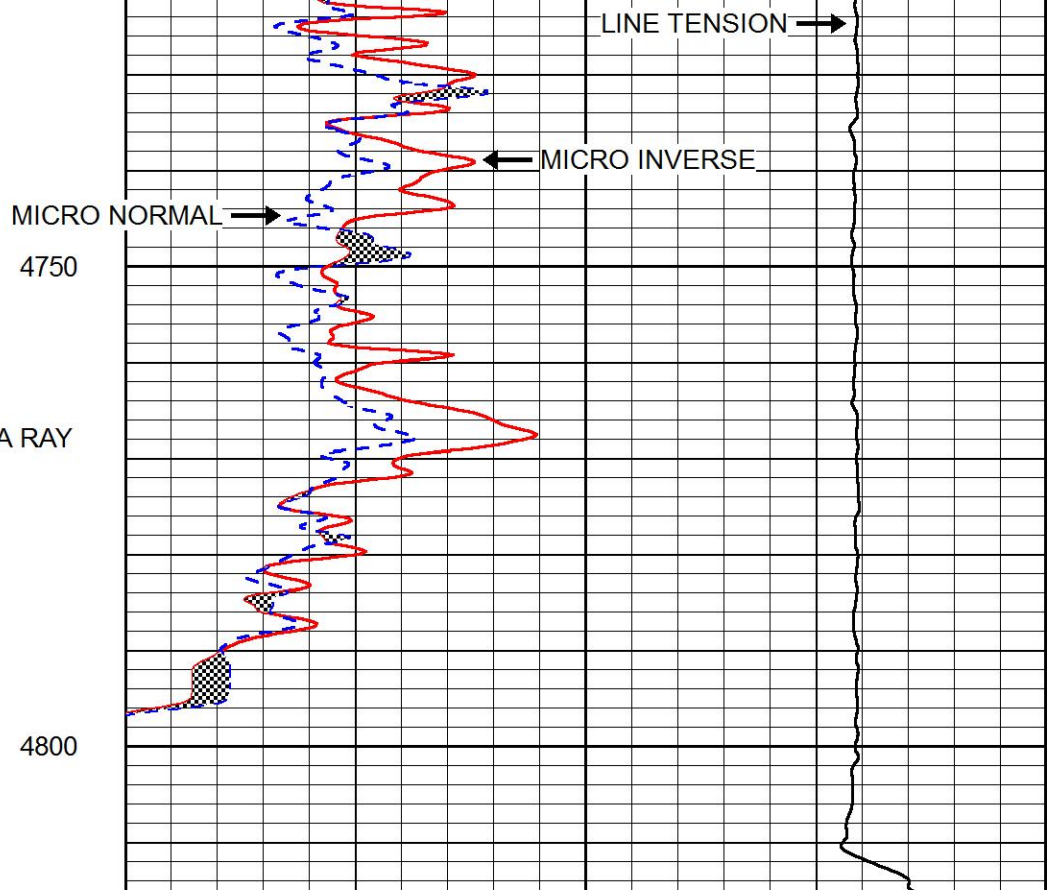
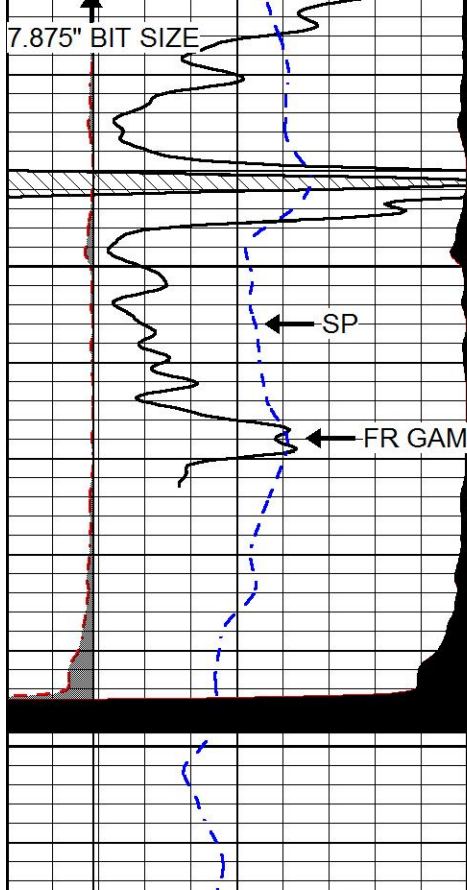
4550

4600

4650

4700





0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

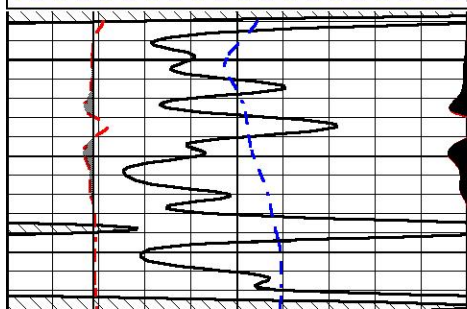


REPEAT SECTION

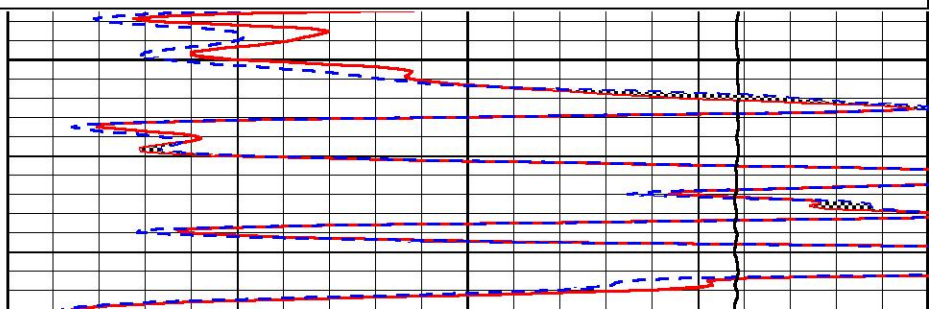
Database File: gulf_henry 1-27.db
 Dataset Pathname: STKML/pass2.1
 Presentation Format: micro
 Dataset Creation: Wed Mar 28 05:01:19 2018
 Charted by: Depth in Feet scaled 1:240

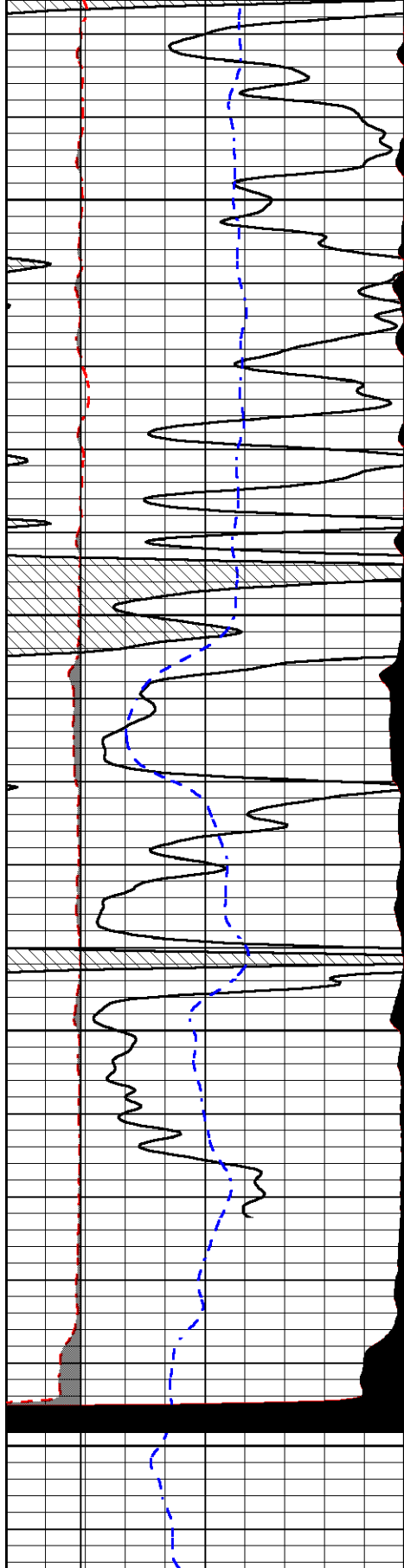
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



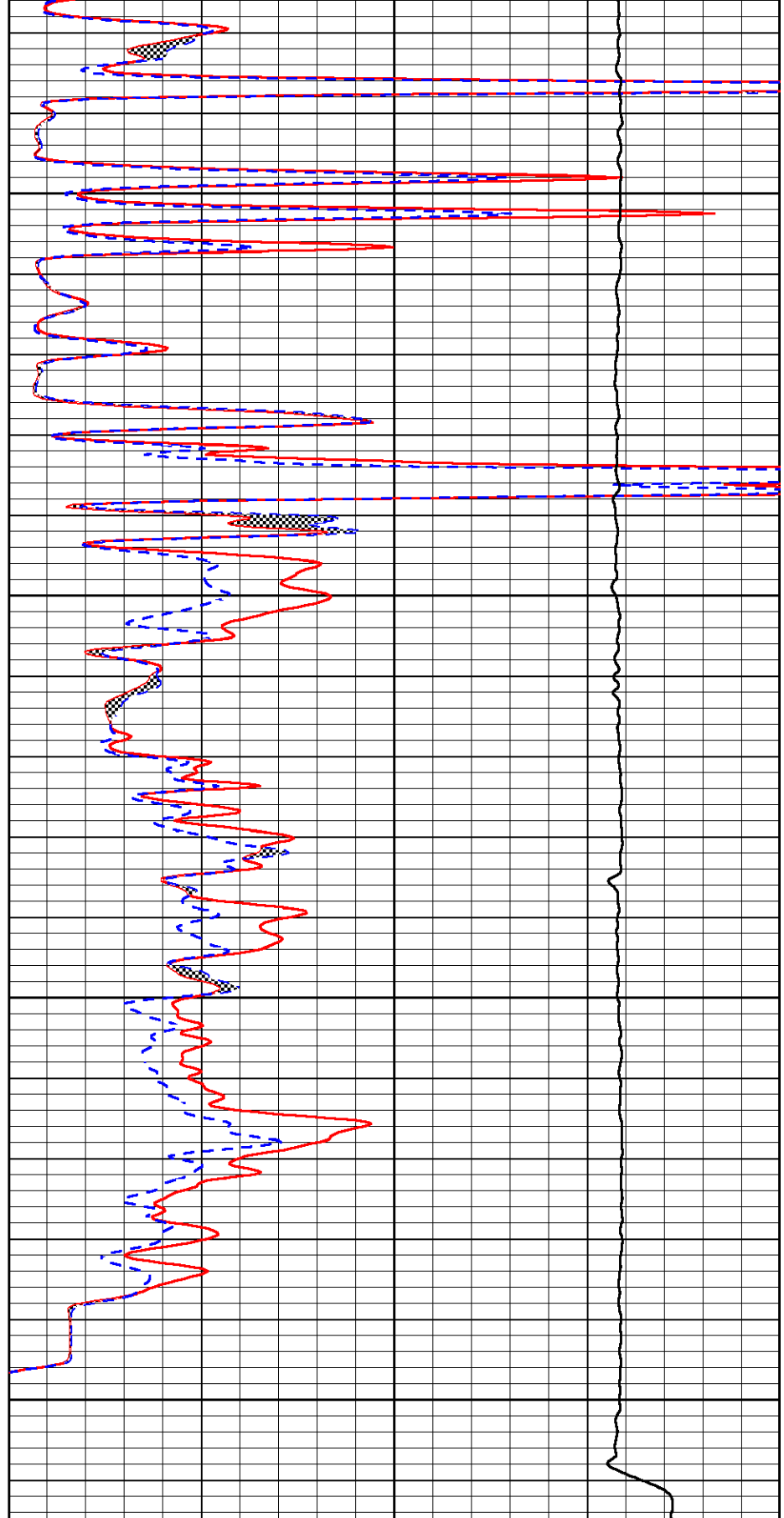
4600





4650
4700
4750
4800

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

Gamma Ray Calibration Report

Serial Number:	89	
Tool Model:	M&W	
Calibration Performed:	Mon Jan 15 11:20:44 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



PIONEER

Pioneer Energy Services

Company	GULF EXPLORATION, LLC
Well	HENRY #1-27
Field	UNNAMED
County	THOMAS
State	KANSAS



**BOREHOLE COMPENSATED
SONIC LOG**

Company GULF EXPLORATION, LLC
 Well HENRY #1-27
 Field UNNAMED
 County THOMAS
 State KANSAS

Company GULF EXPLORATION, LLC
 Well HENRY #1-27
 Field UNNAMED
 County THOMAS State KANSAS

Location: API #: 15-193-21011-00-00
 1622' FSL & 1256' FEL
 SEC 27 TWP 7S RGE 35W
 Permanent Datum GROUND LEVEL Elevation 3213'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services
 CNL/CDL
 DIL/MEL
 Elevation
 K.B. 3218'
 D.F. N/A
 G.L. 3213'

Date	3/28/2018						
Run Number	TWO						
Type Log	BHGS						
Depth Driller	4806'						
Depth Logger	4810'						
Bottom Logged Interval	4798'						
Top Logged Interval	300'						
Type Fluid In Hole	CHEMICAL						
Salinity, PPM CL	2900						
Density	9.2						
Level	FULL						
Max. Rec. Temp. F	124						
Operating Rig Time	5 HOURS						
Equipment -- Location	91 HAYS						
Recorded By	D. SCHMIDT						
Witnessed By	KEITH REAVIS						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	305'	8.625"	23#	0'	305'
TWO	7.875"	305'	TD				
Casing Record							

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

LEVANT,
 2 NORTH ON RD 11 FROM THE RR TRACKS,
 WEST INTO NORTH OF FARMHOUSE

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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Your Pioneer Energy Services Crew

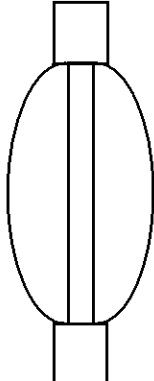


Engineer: D. SCHMIDT
 Operator:
 Operator:
 Operator:

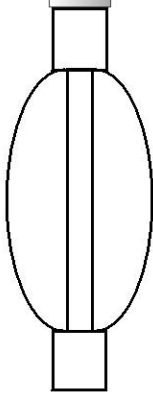
This Log Record Was Witnessed By

Primary Witness: KEITH REAVIS
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-144	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	4611	124	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-PENGO (3-PENGO)	5.50	3.00	70.00
WVF4 WVF1	13.50 13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF3 WVF2	11.50 11.50					



CENT-PENGO (4-PENGO)

5.50

3.00

70.00

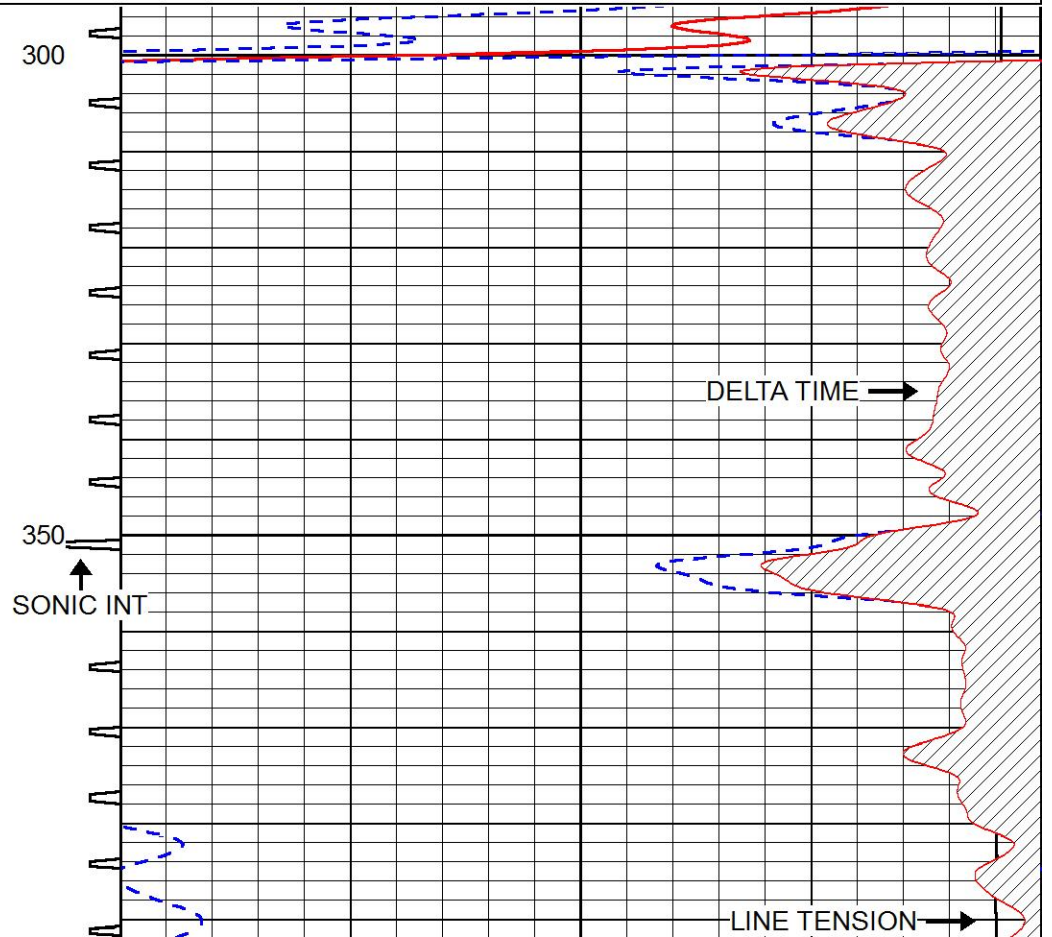
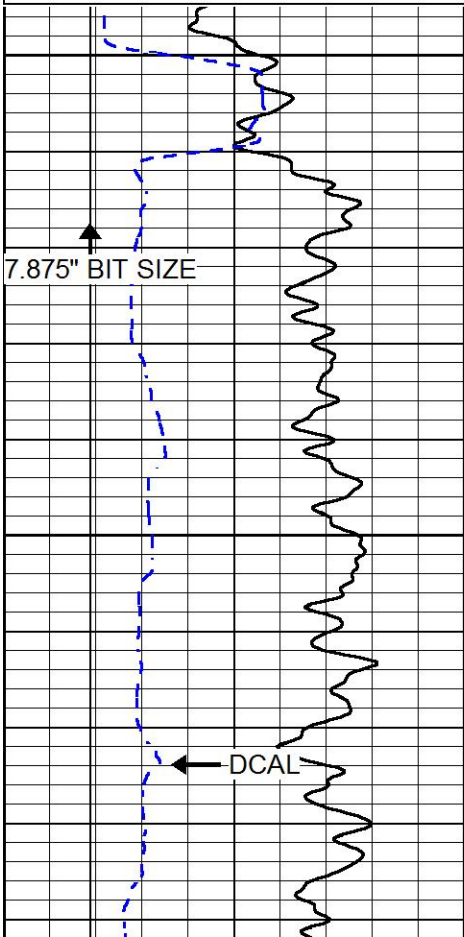
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 Total length: 27.00 ft
 Total weight: 440.00 lb
 O.D.: 3.50 in

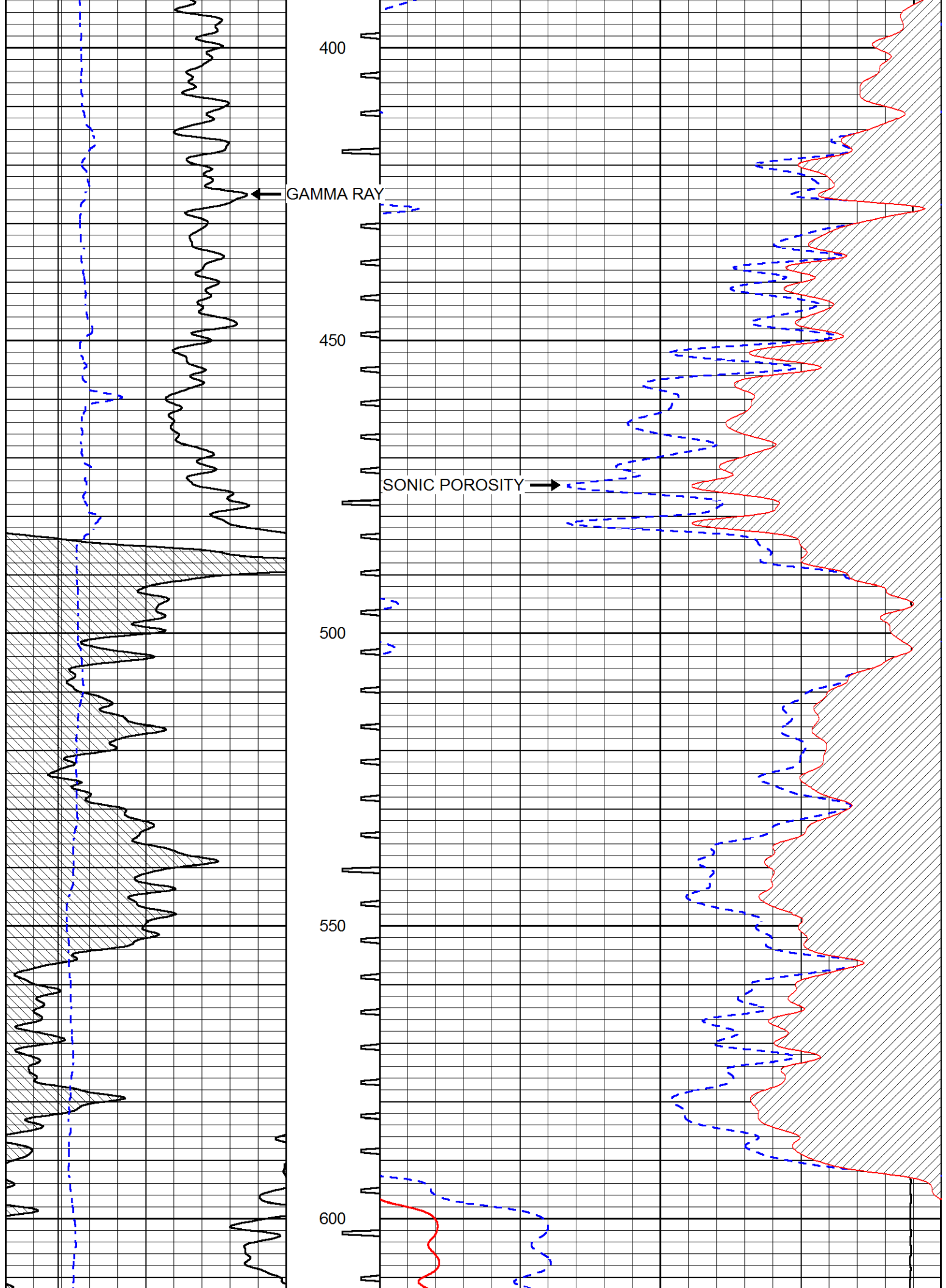


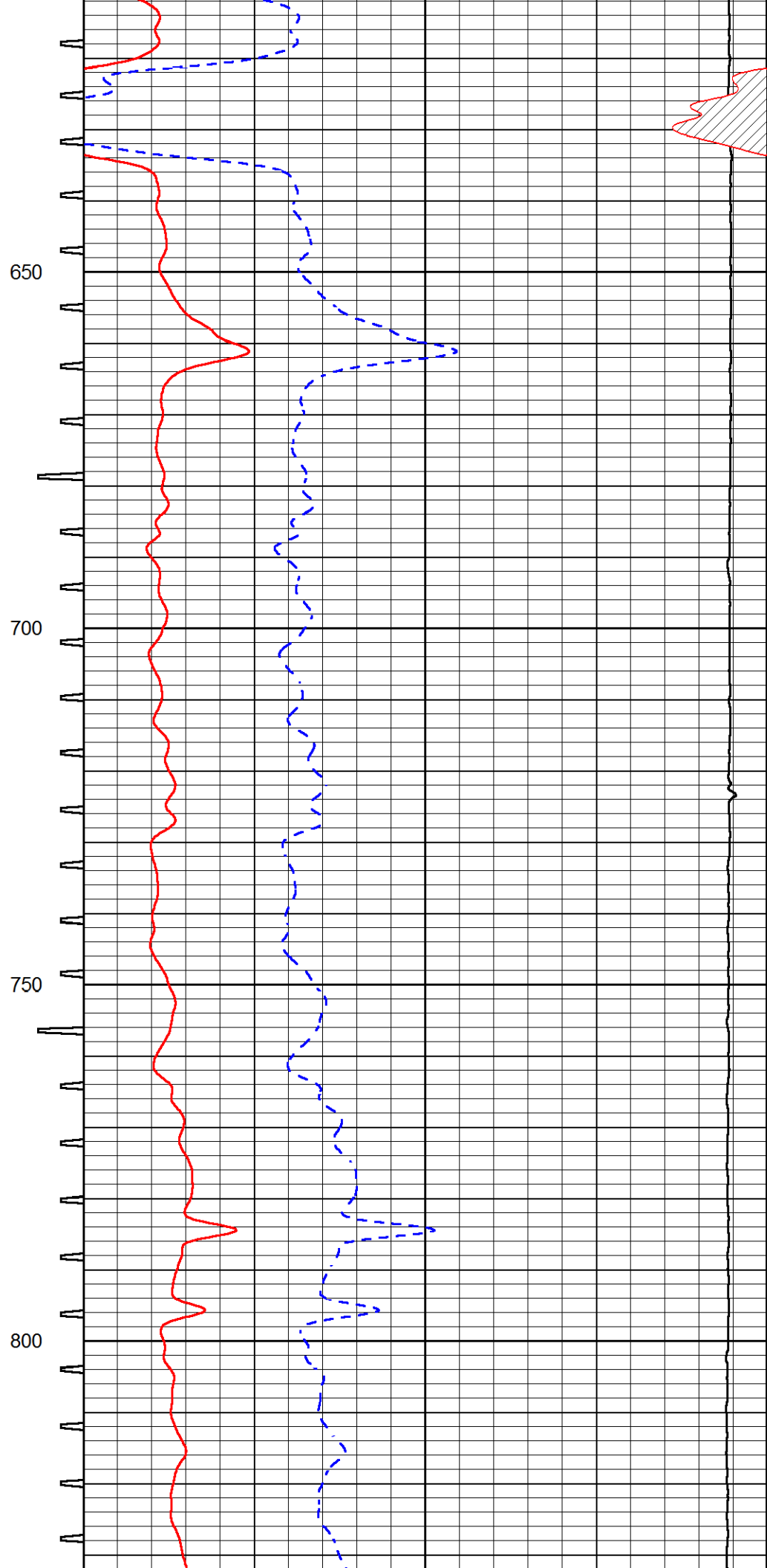
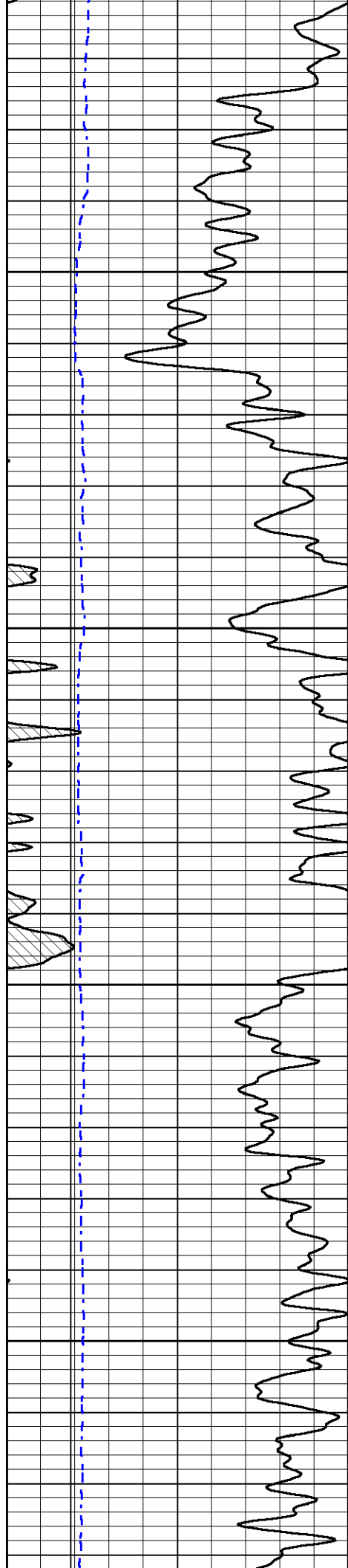
MAIN PASS

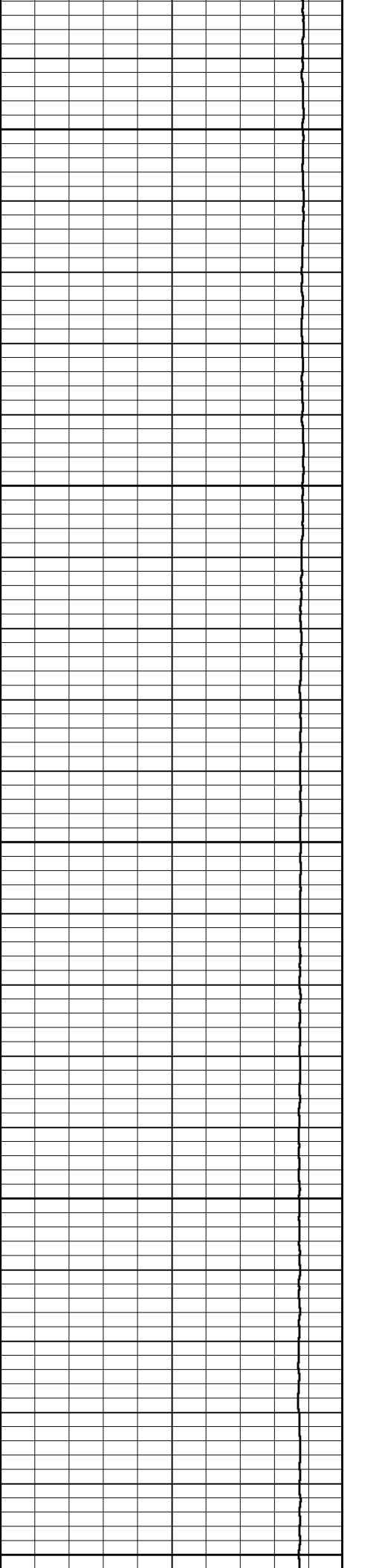
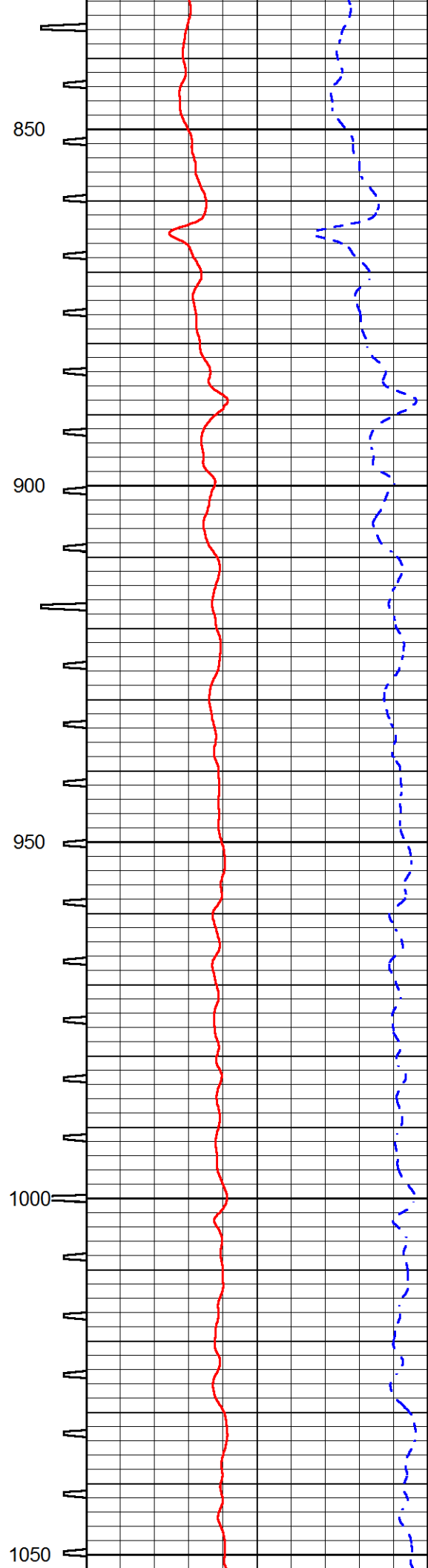
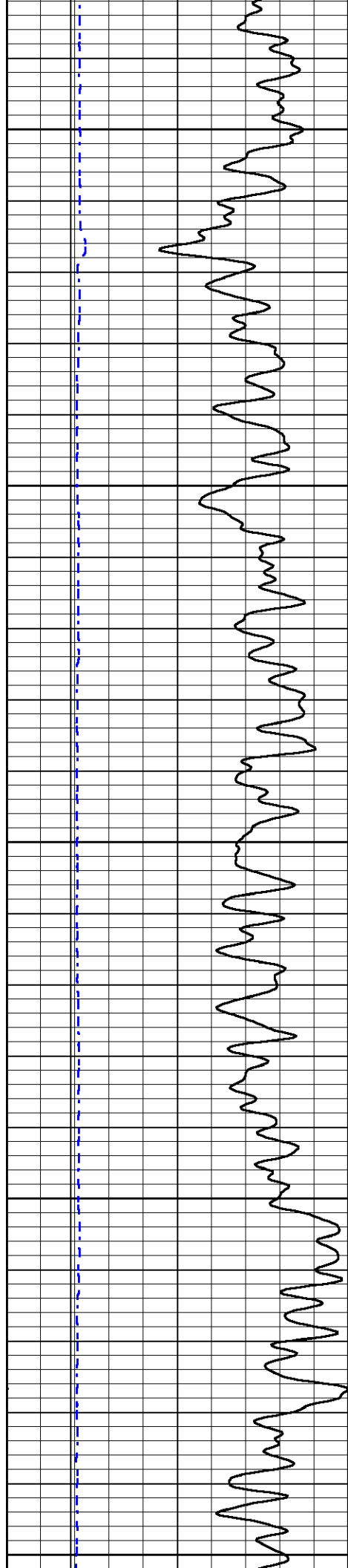
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 Charted by: Depth in Feet scaled 1:240

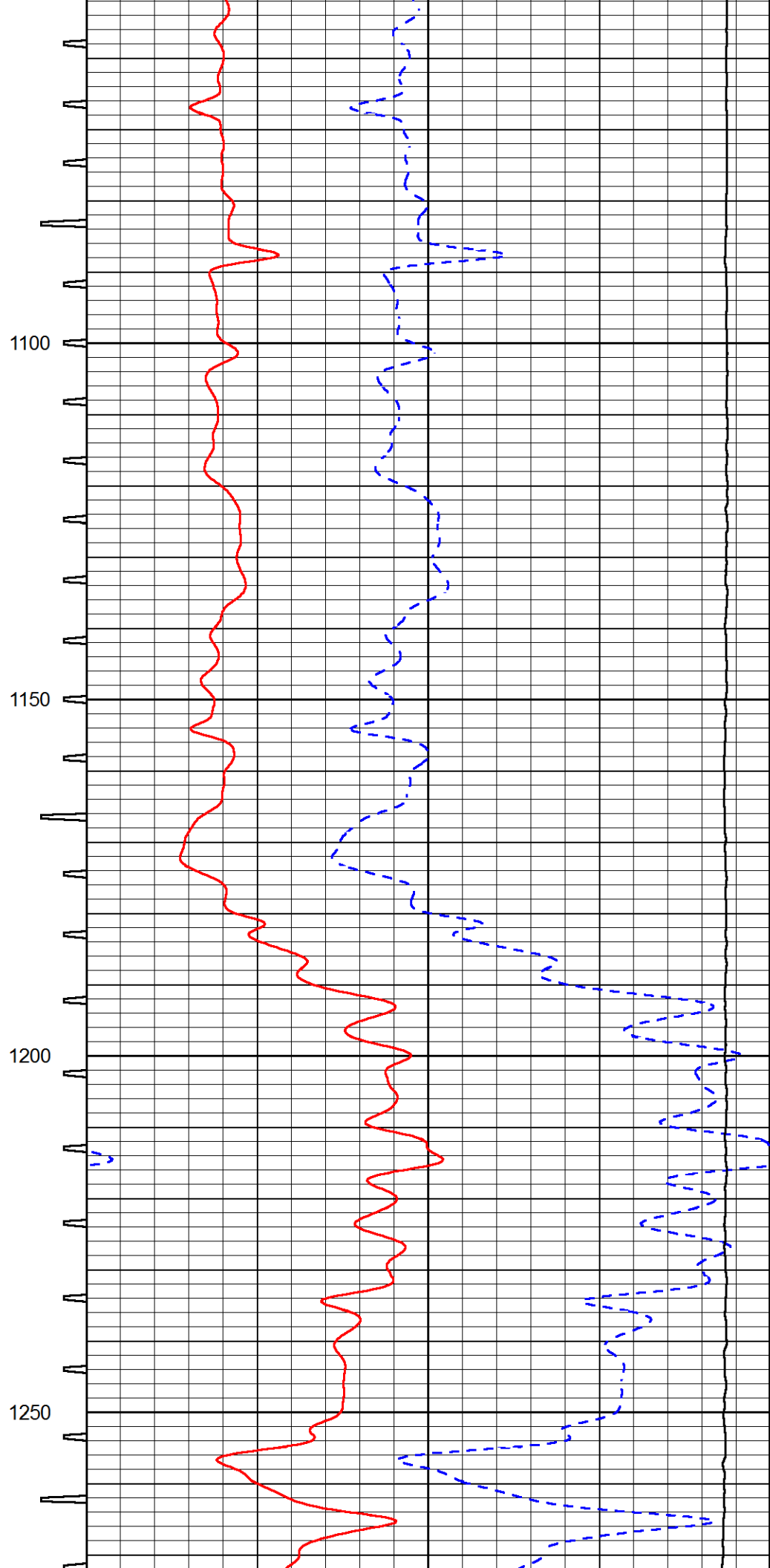
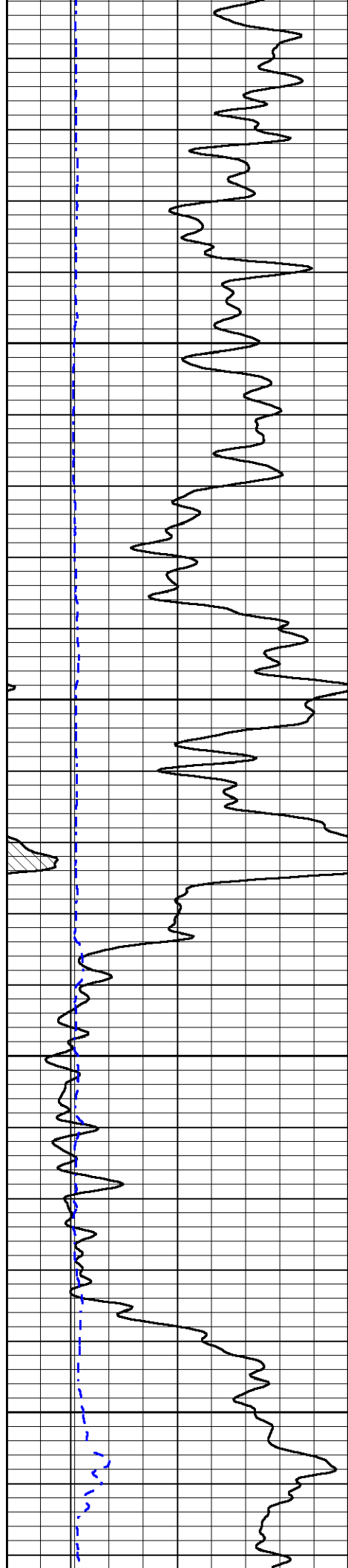
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

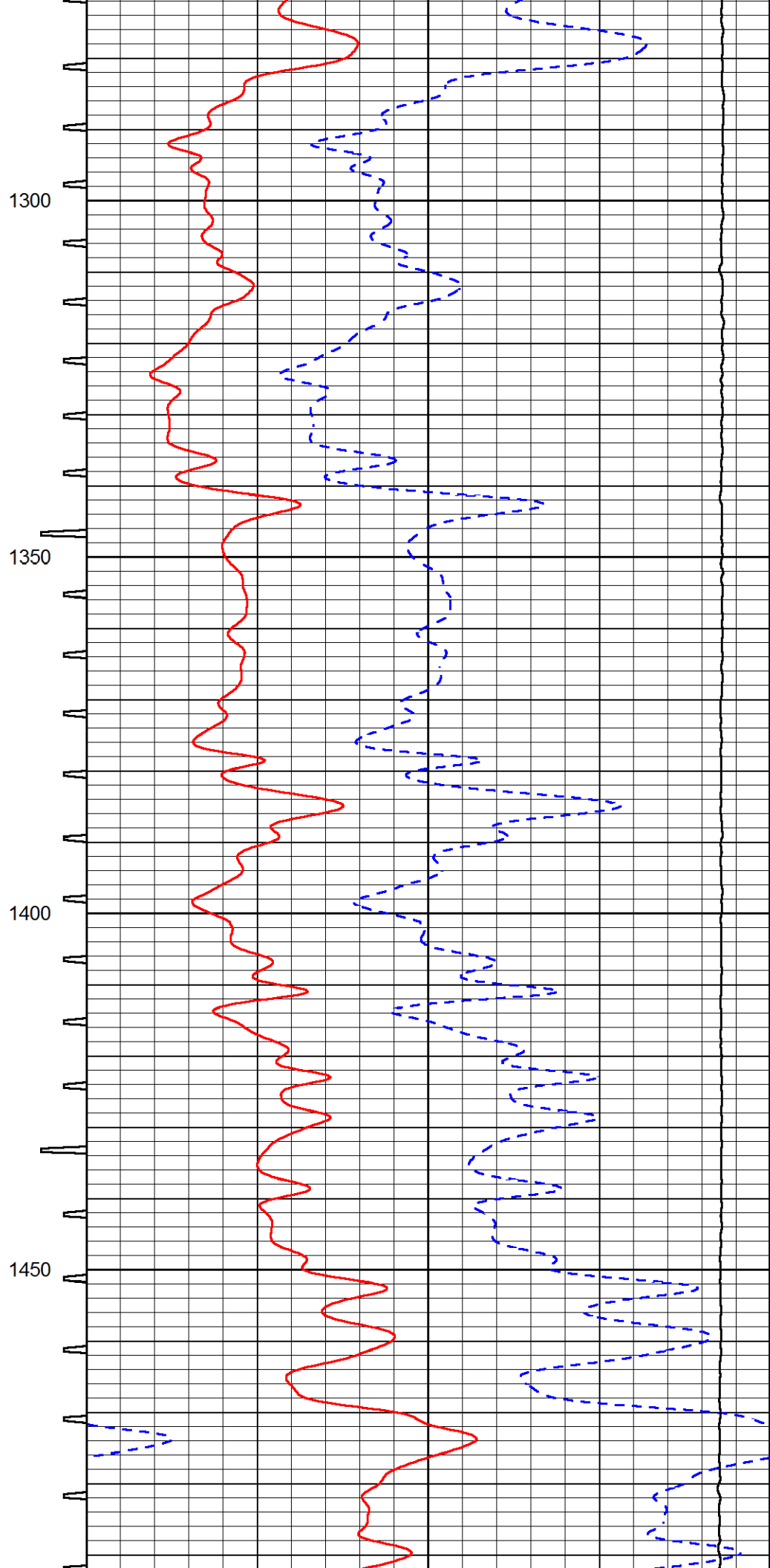
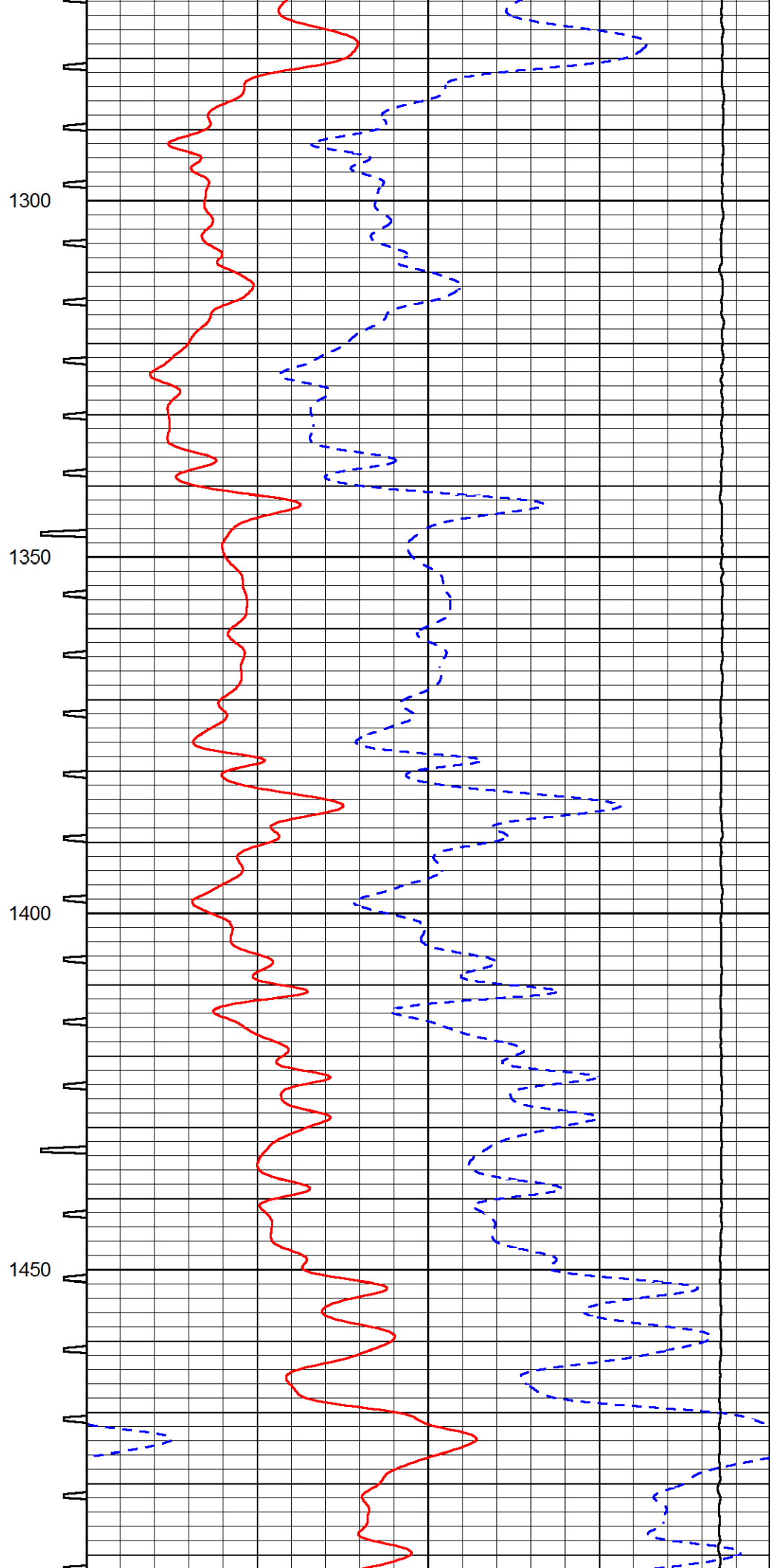
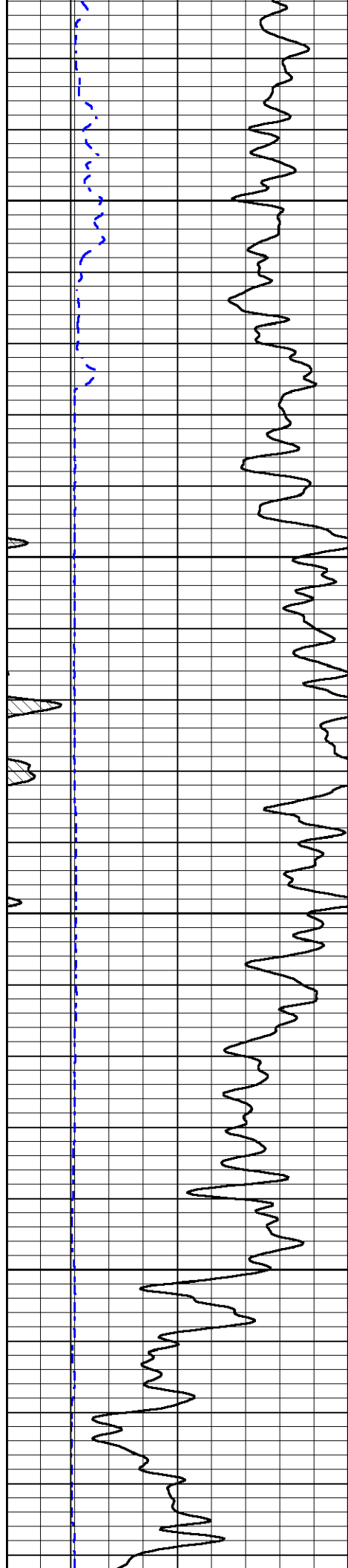


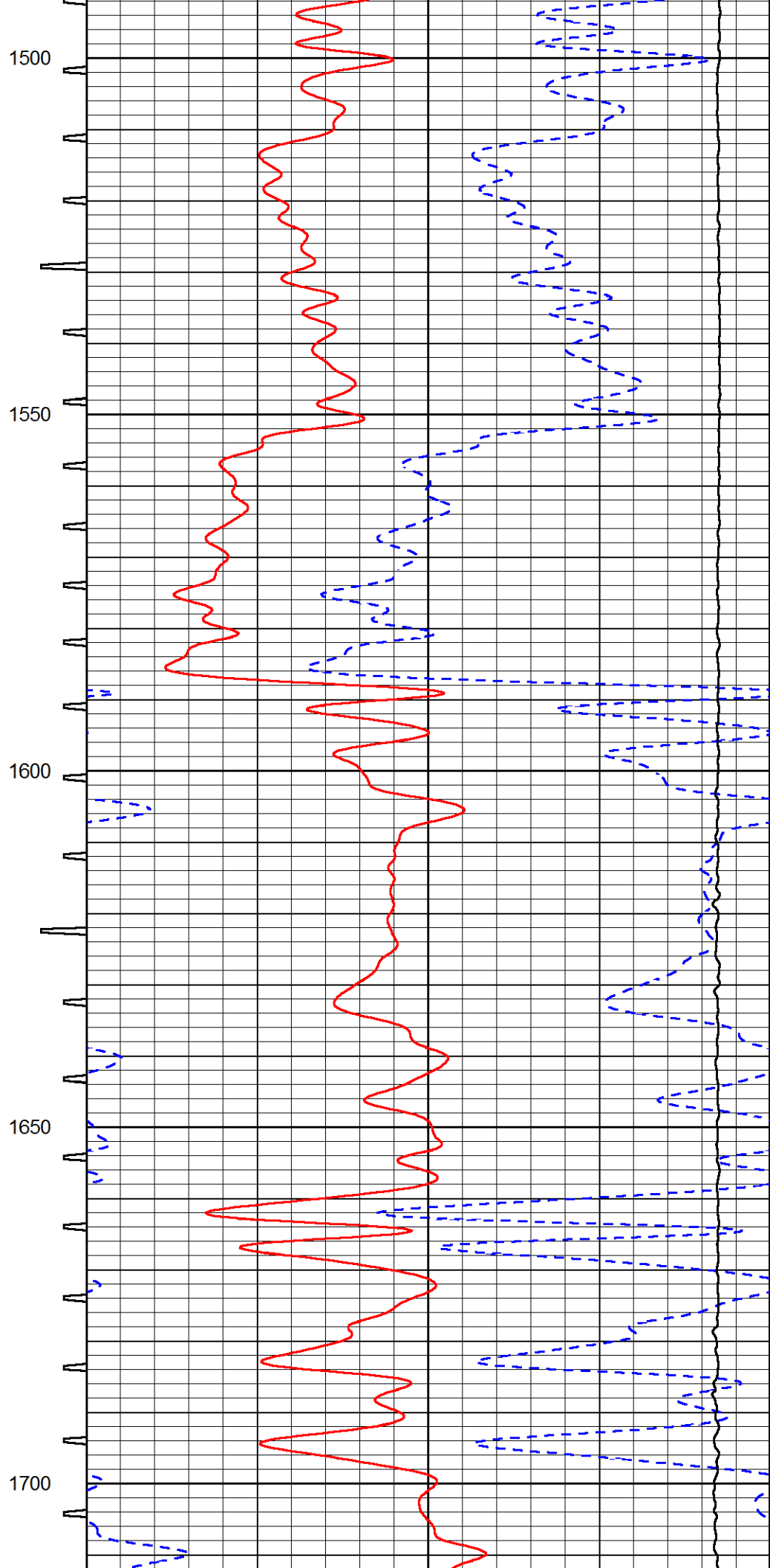
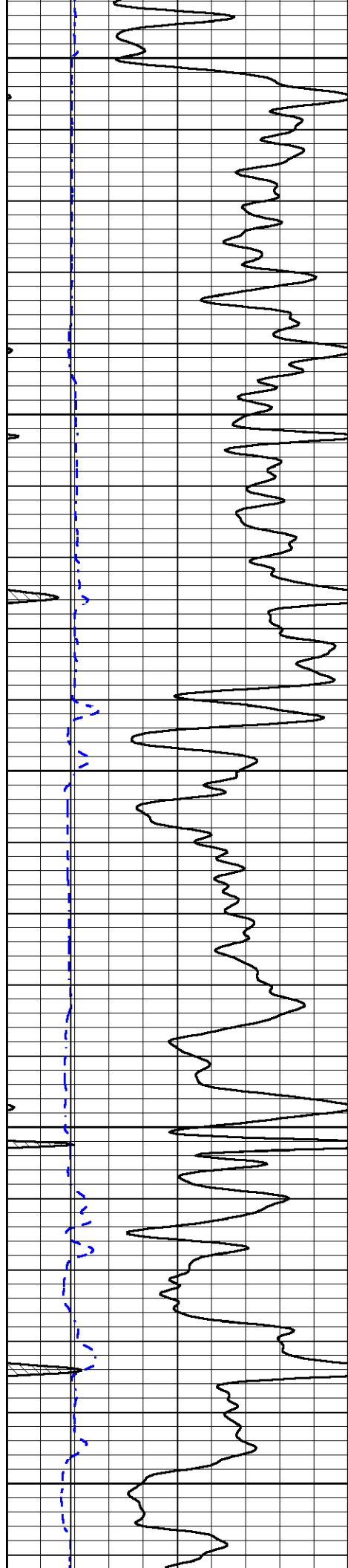


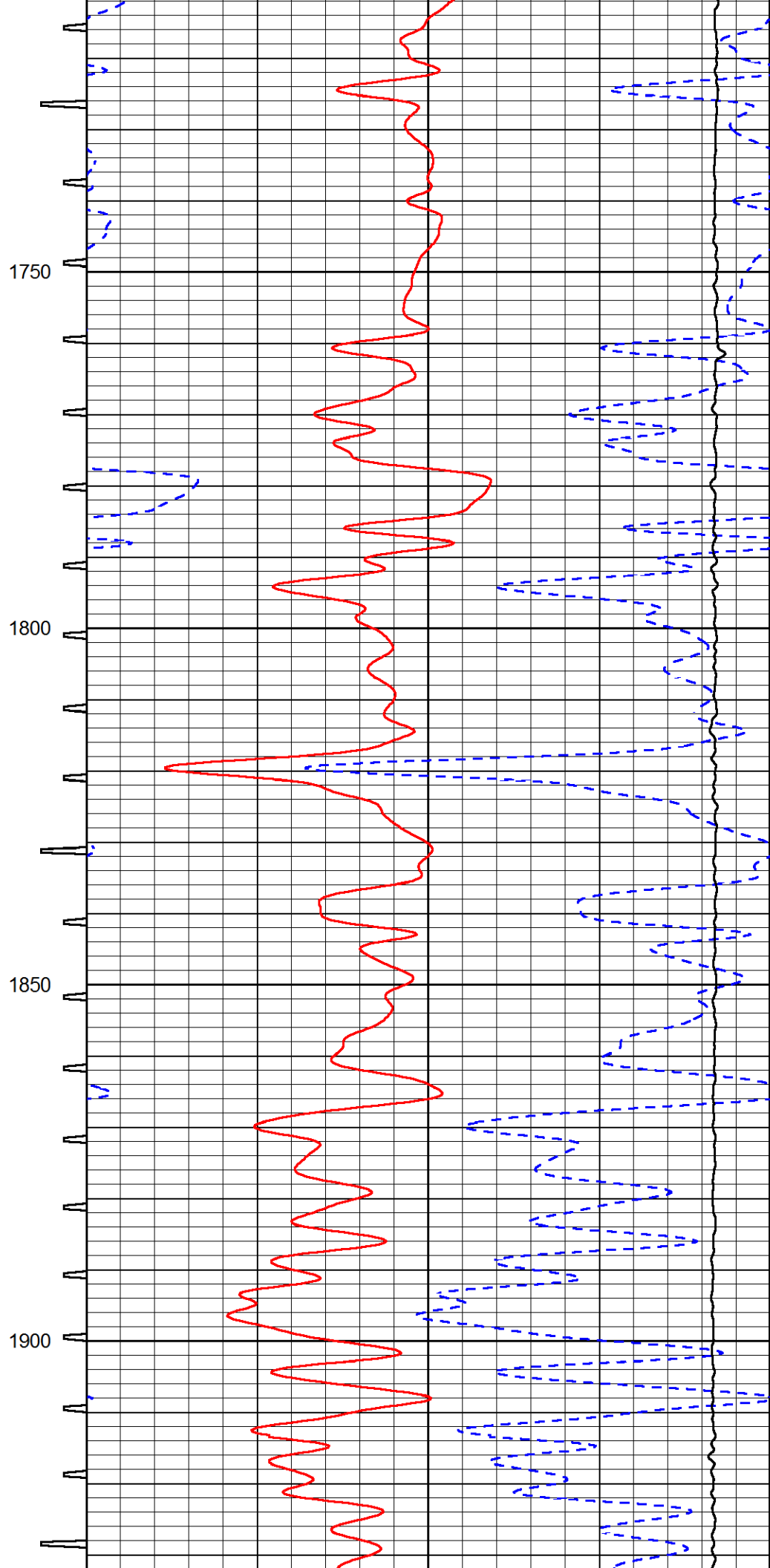
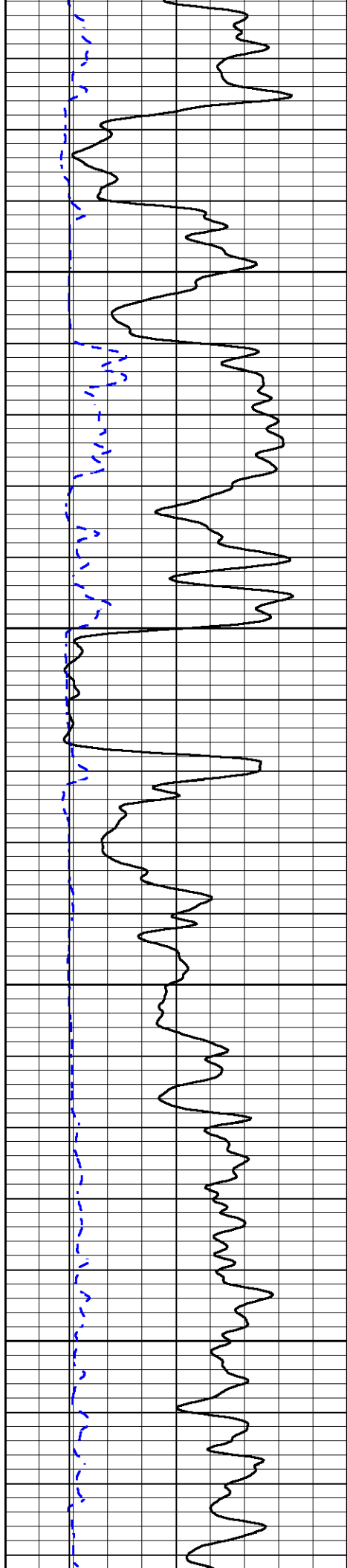


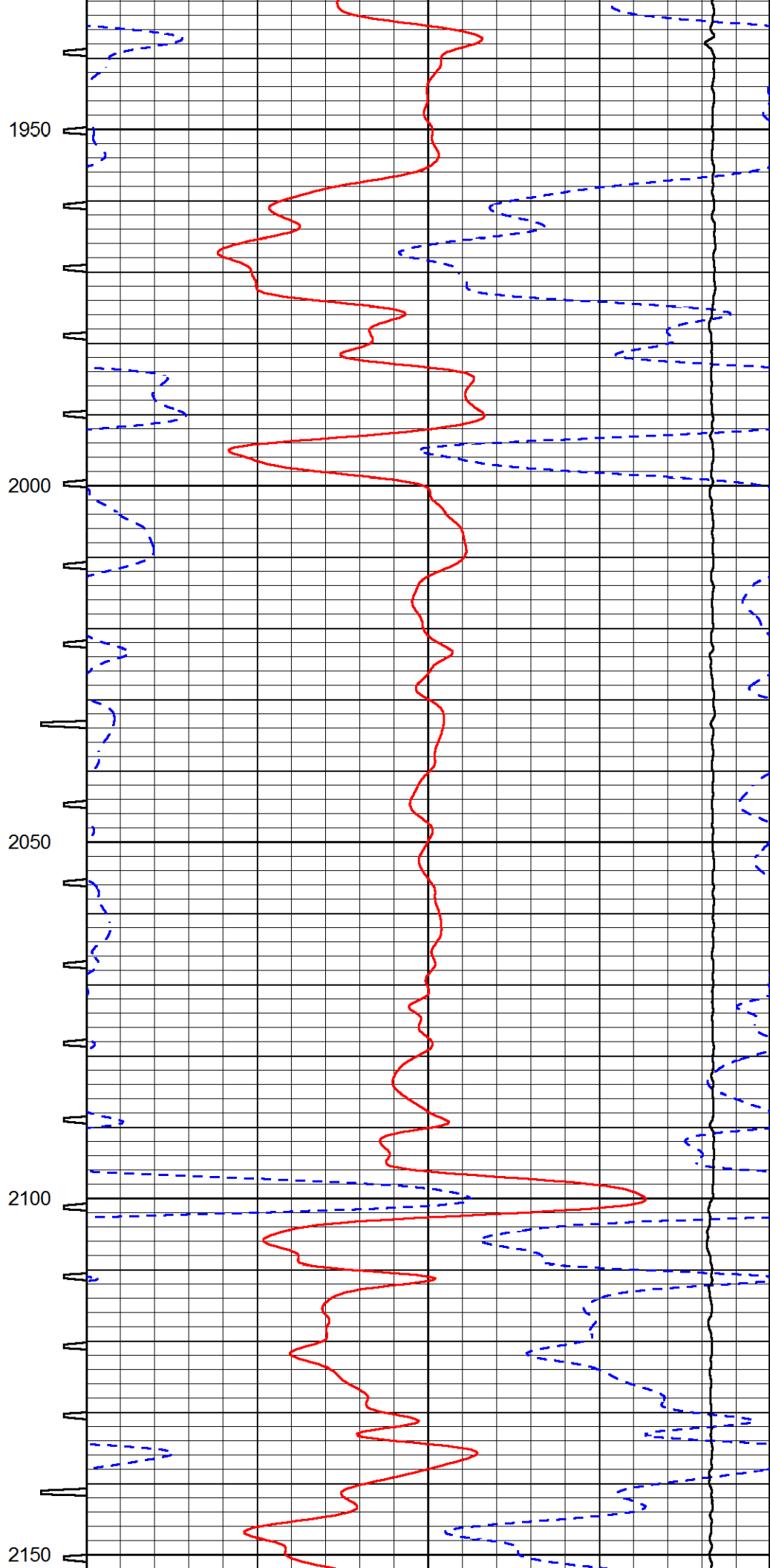
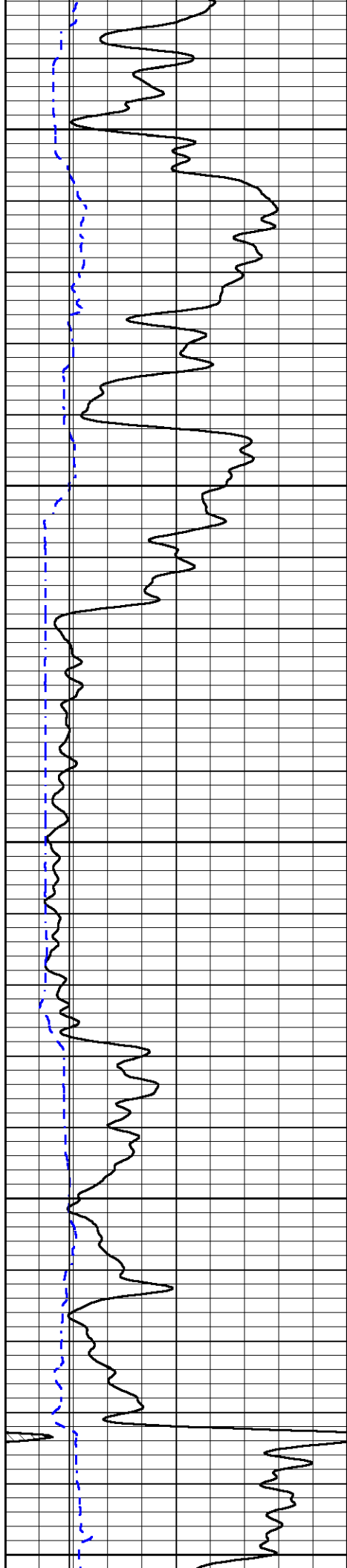


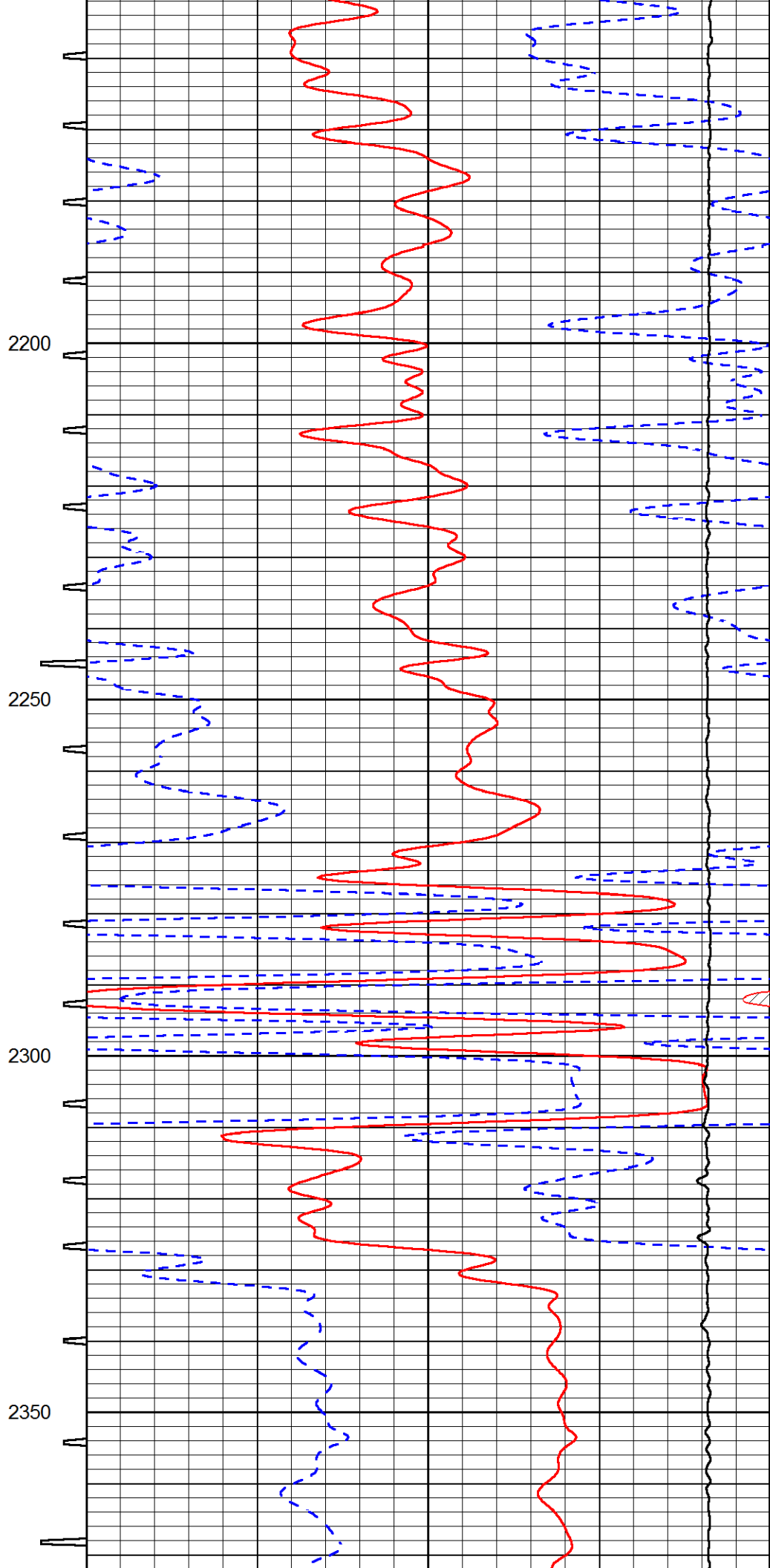
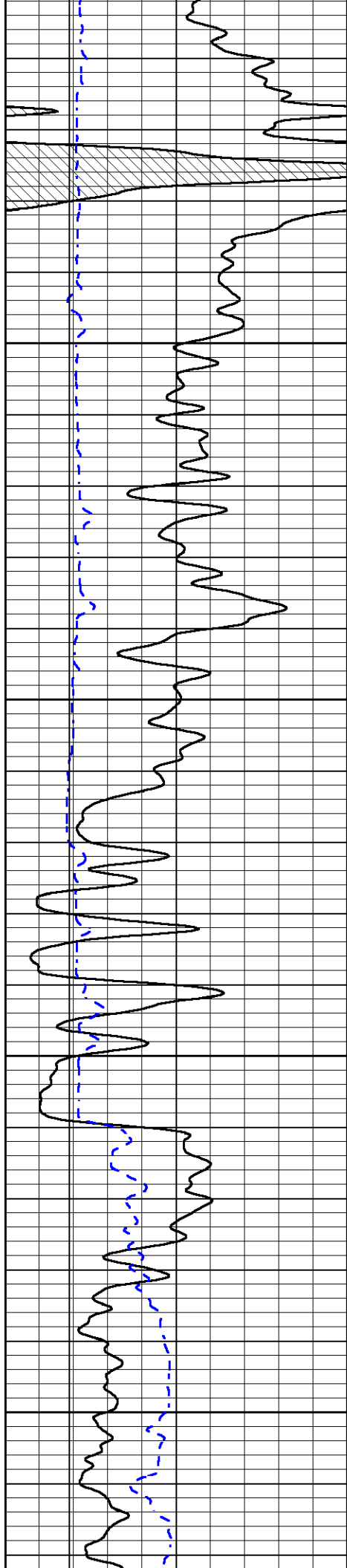


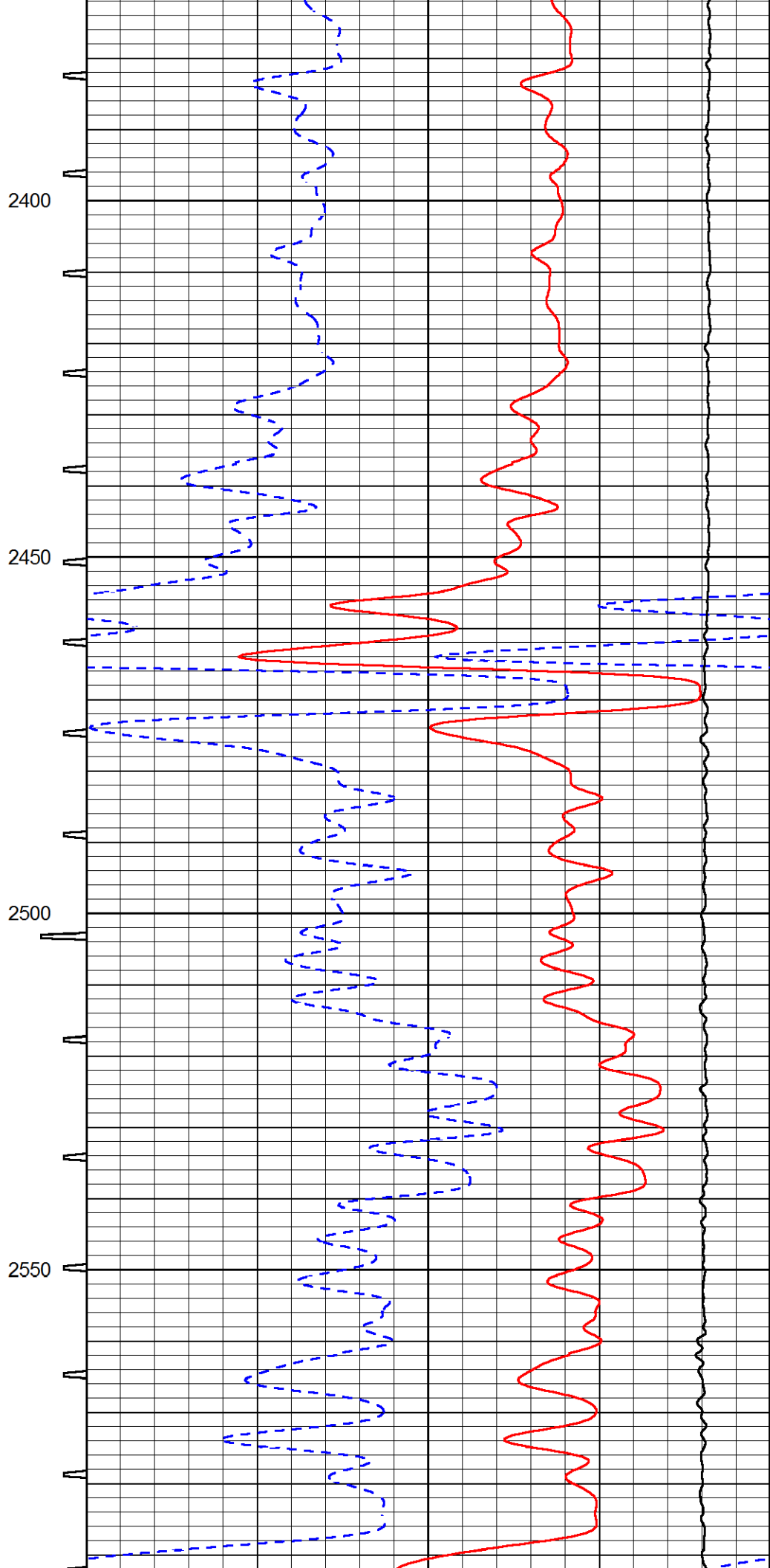
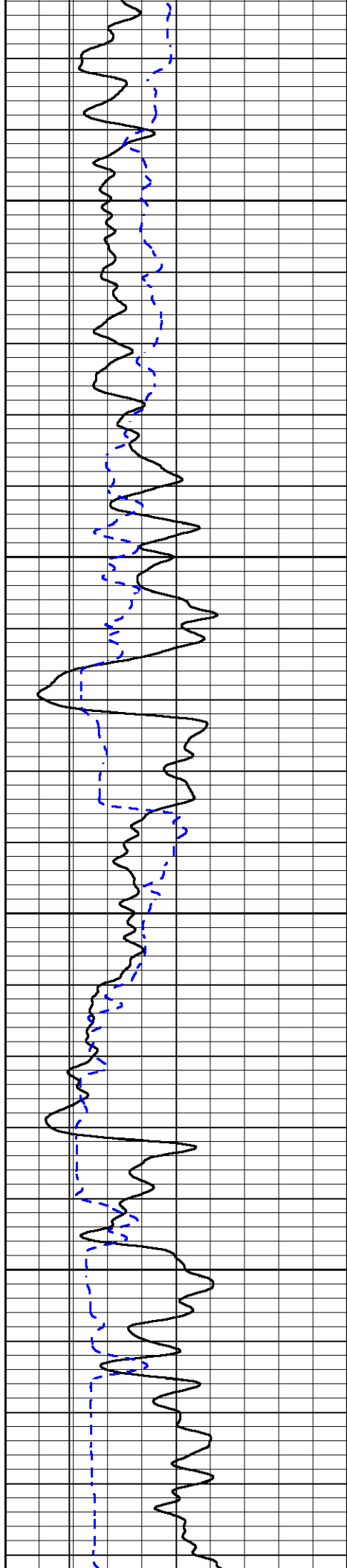


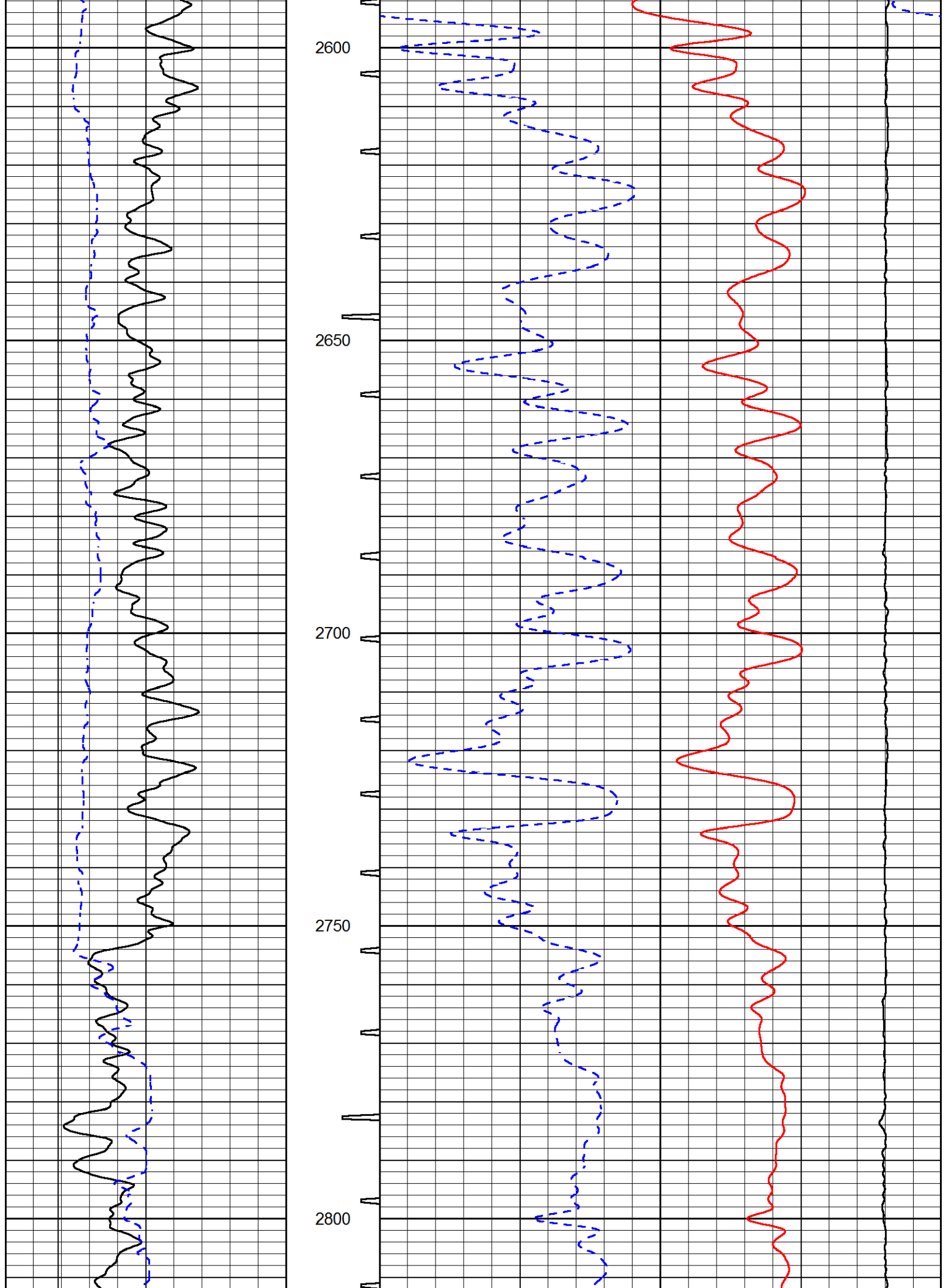


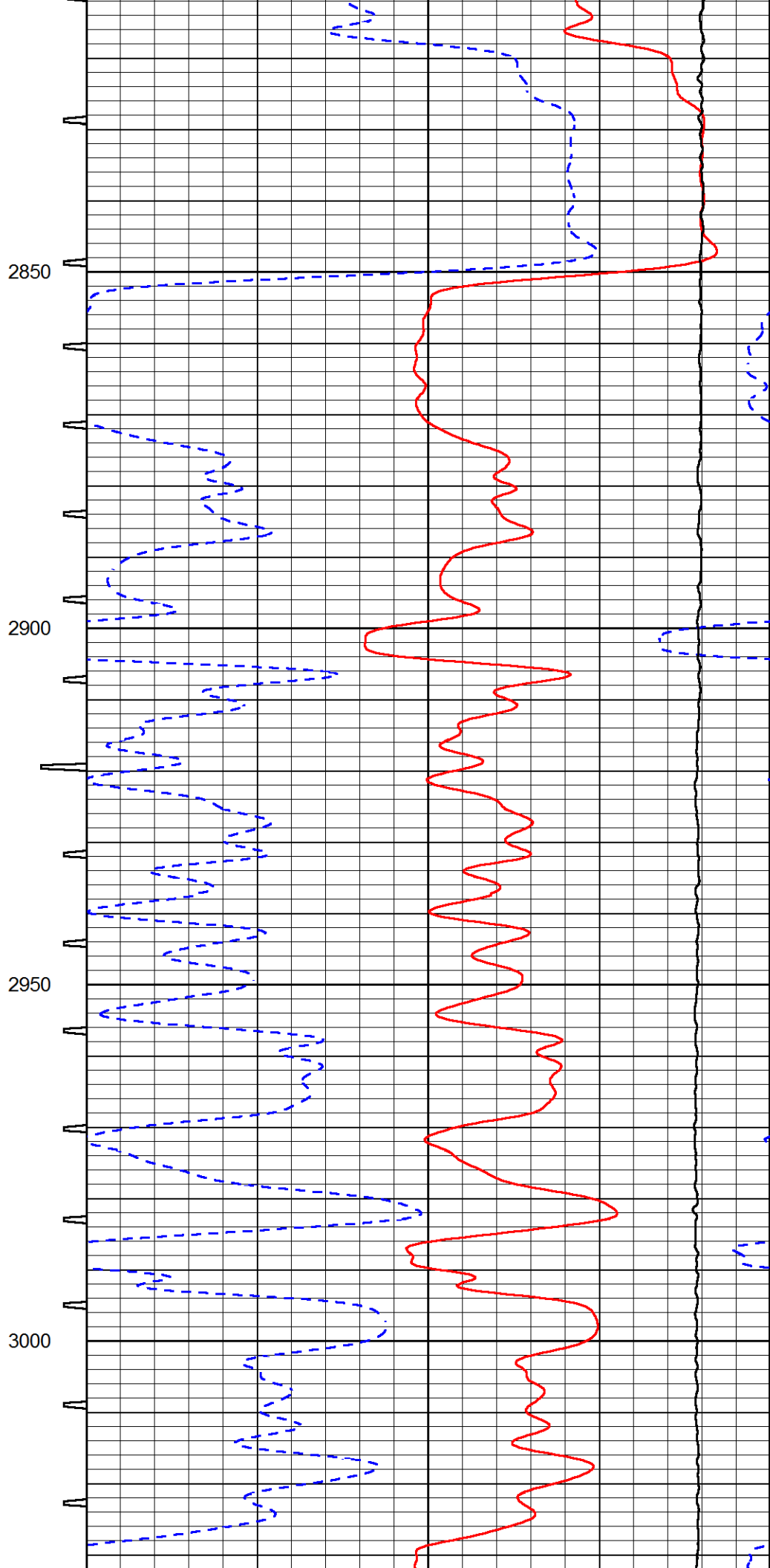
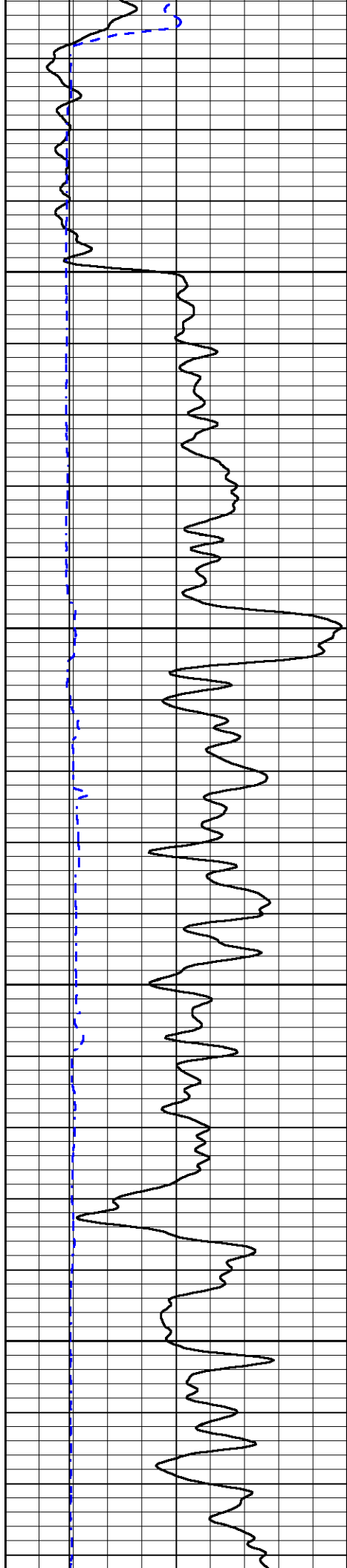


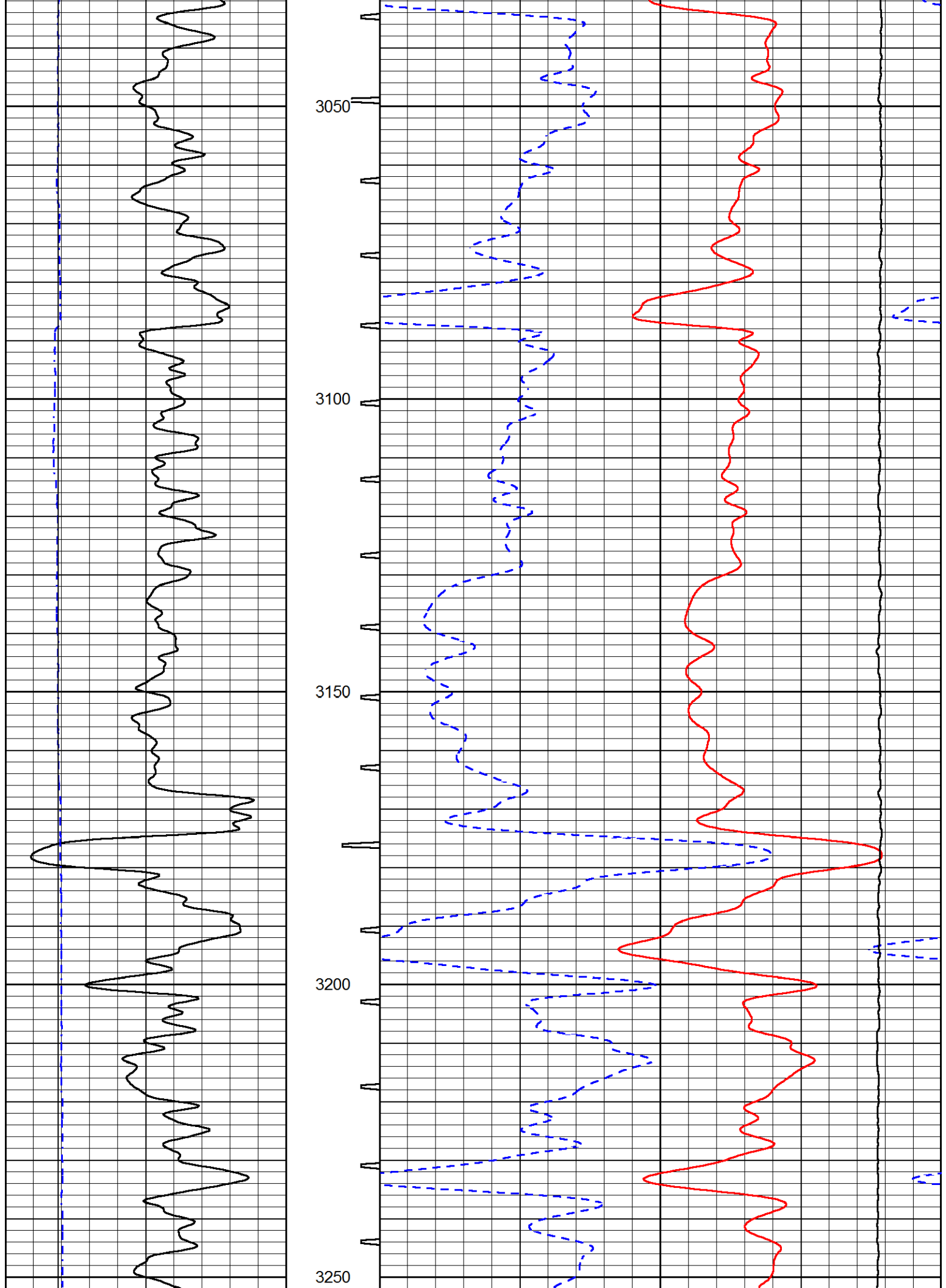


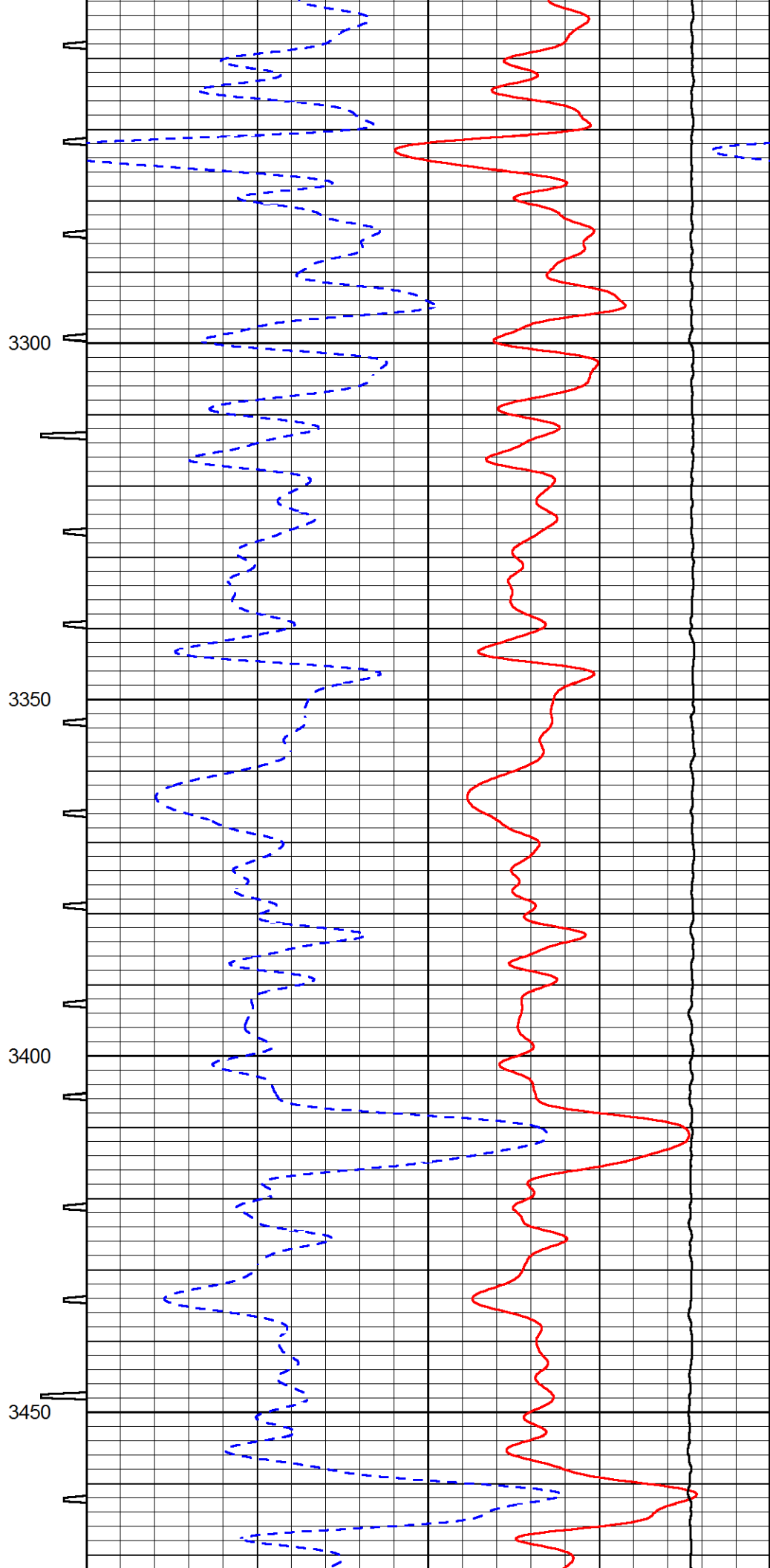
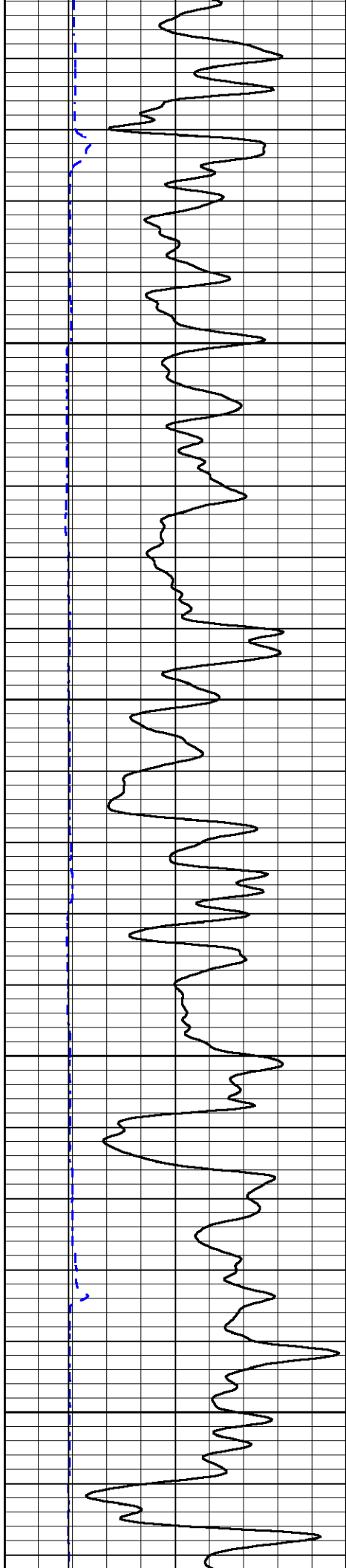


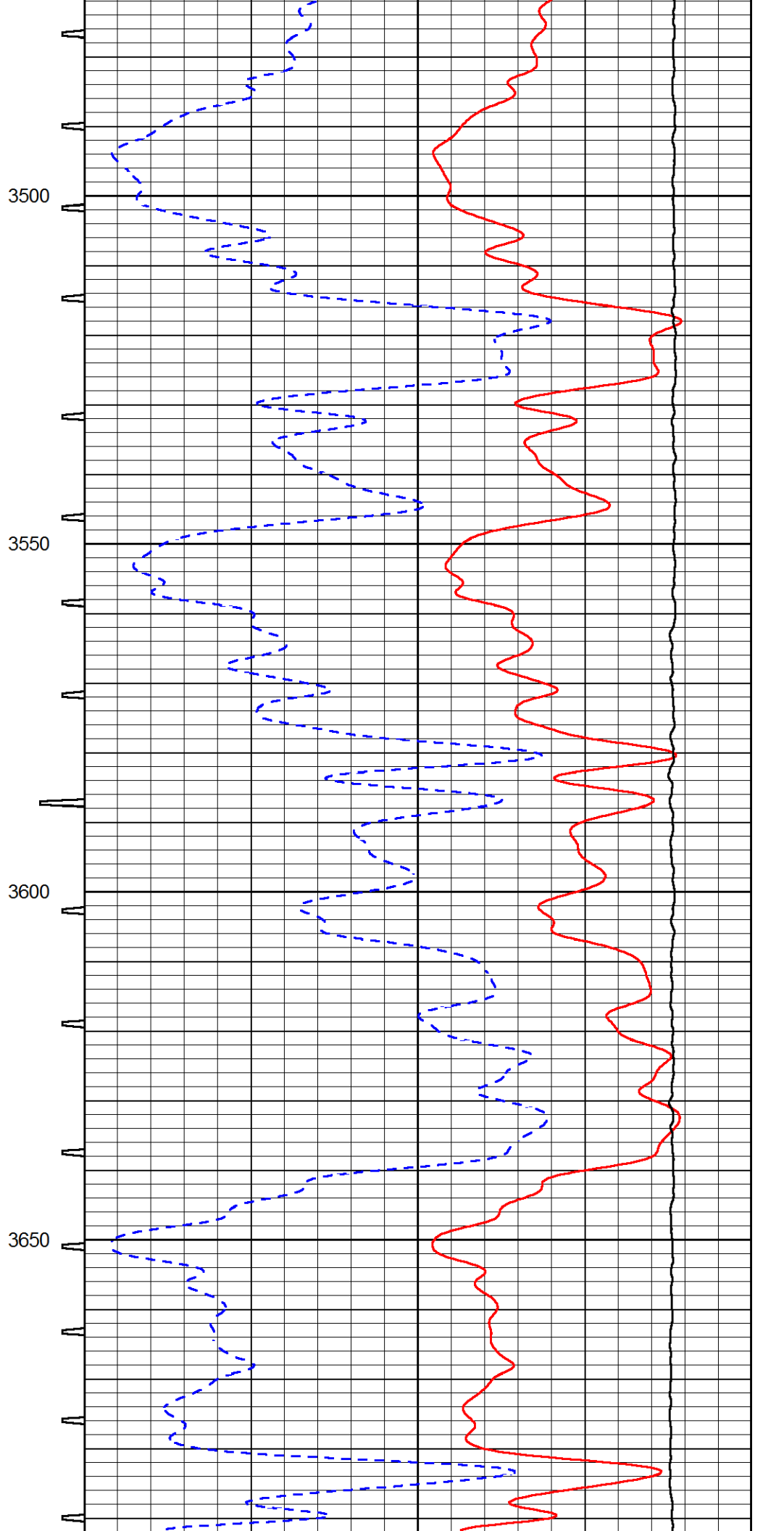
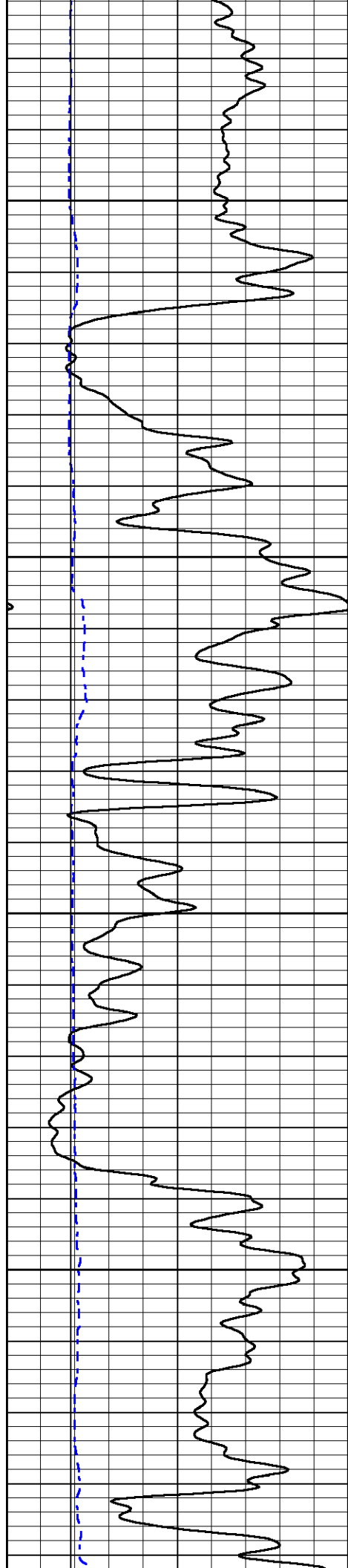


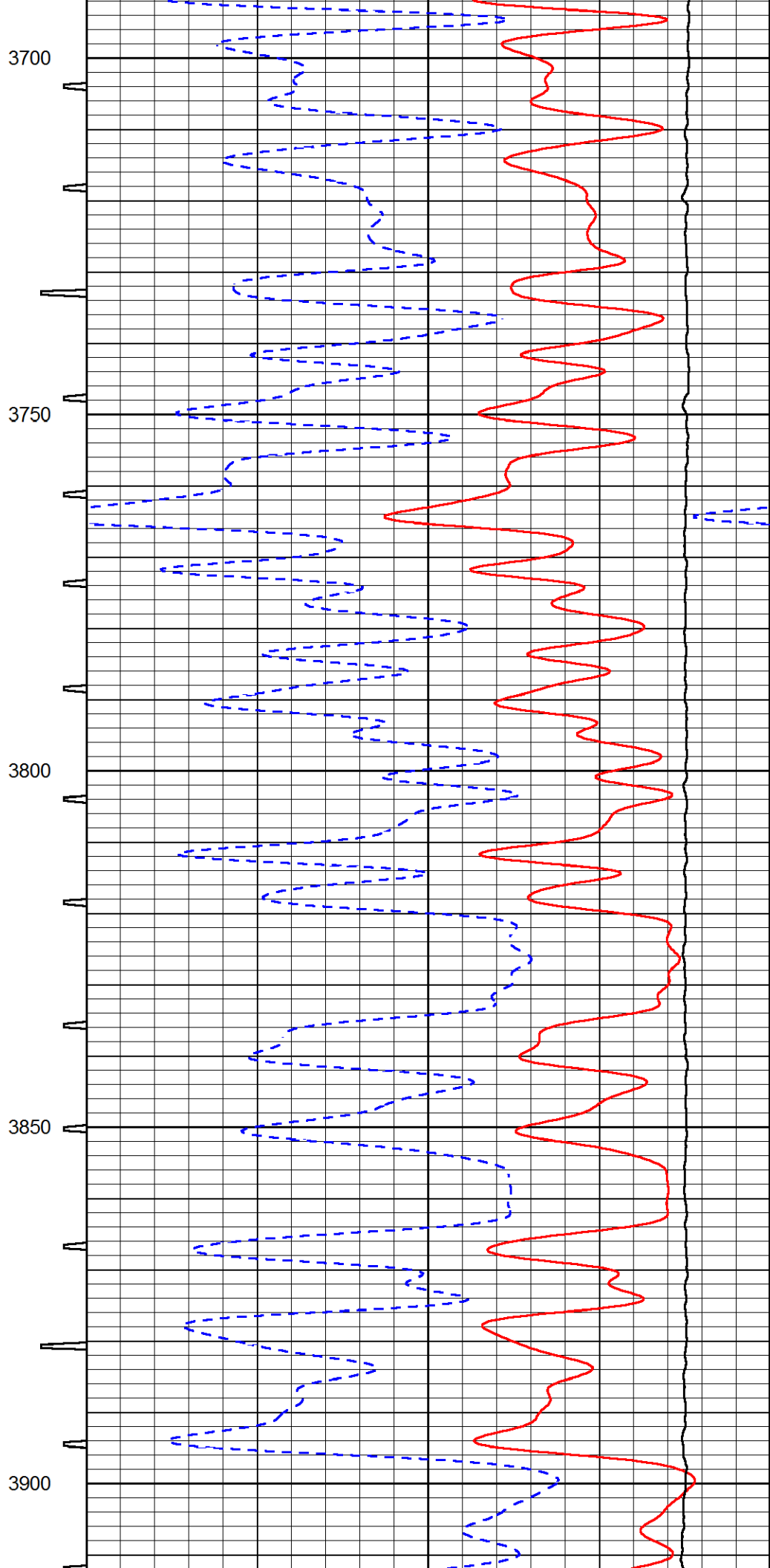
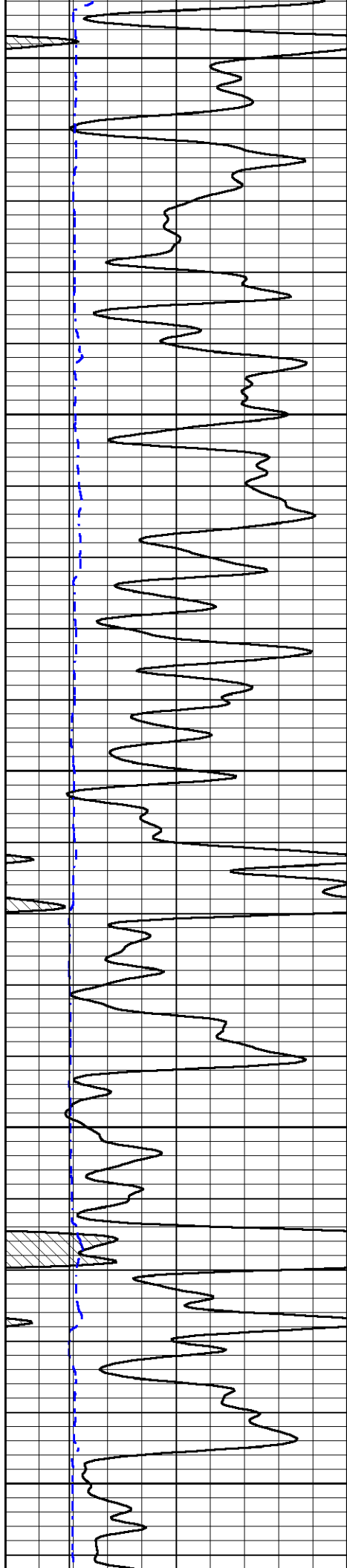


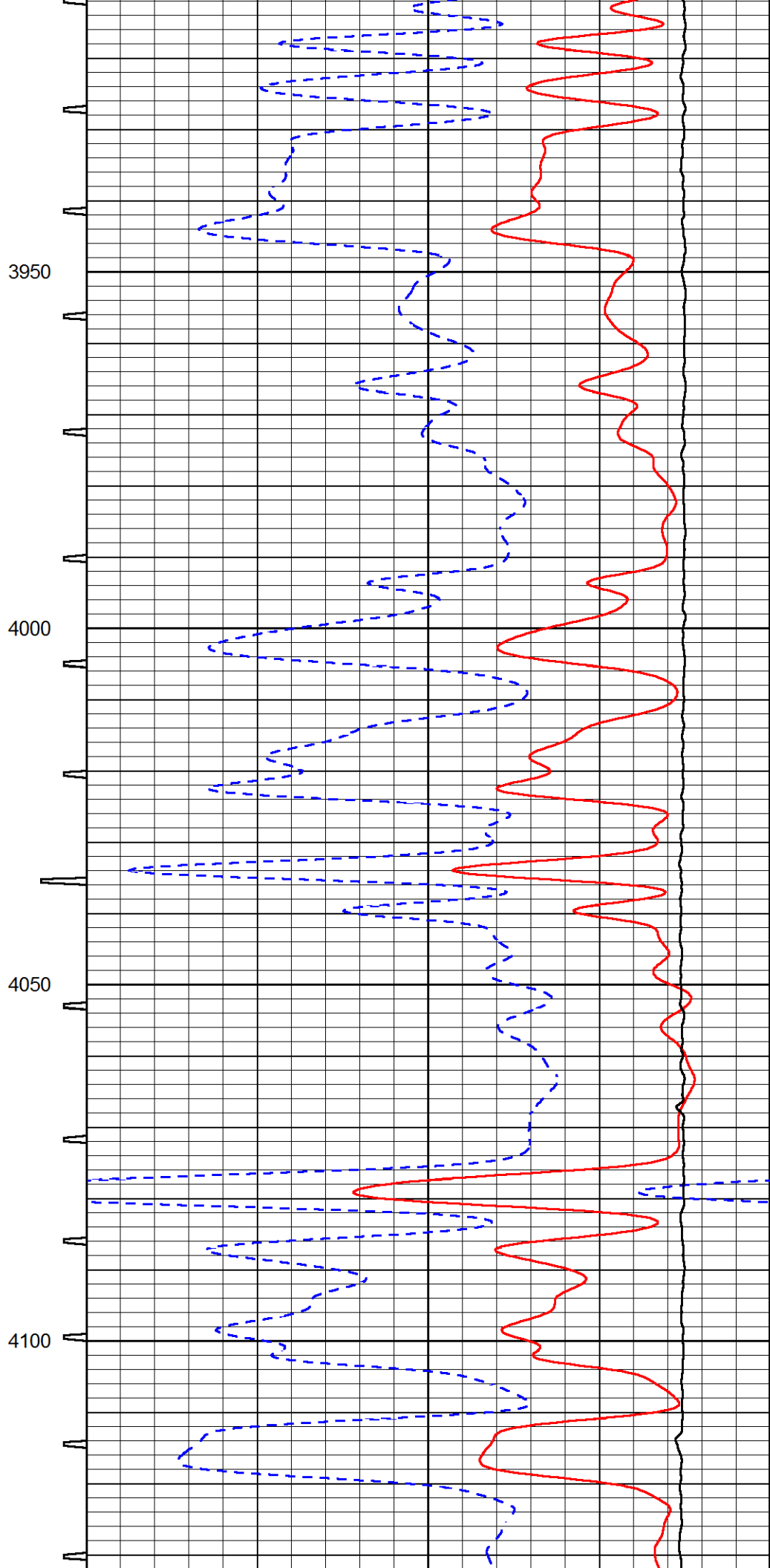
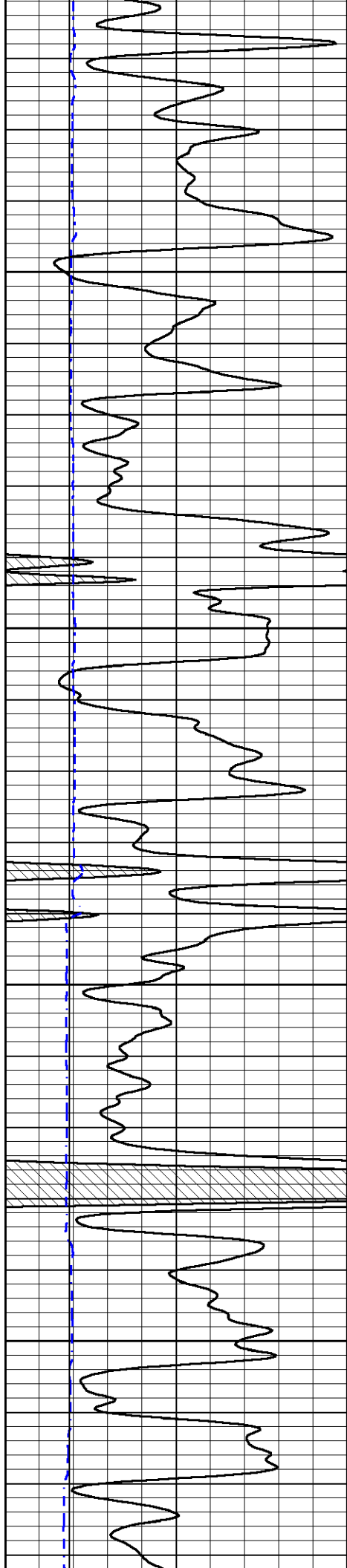


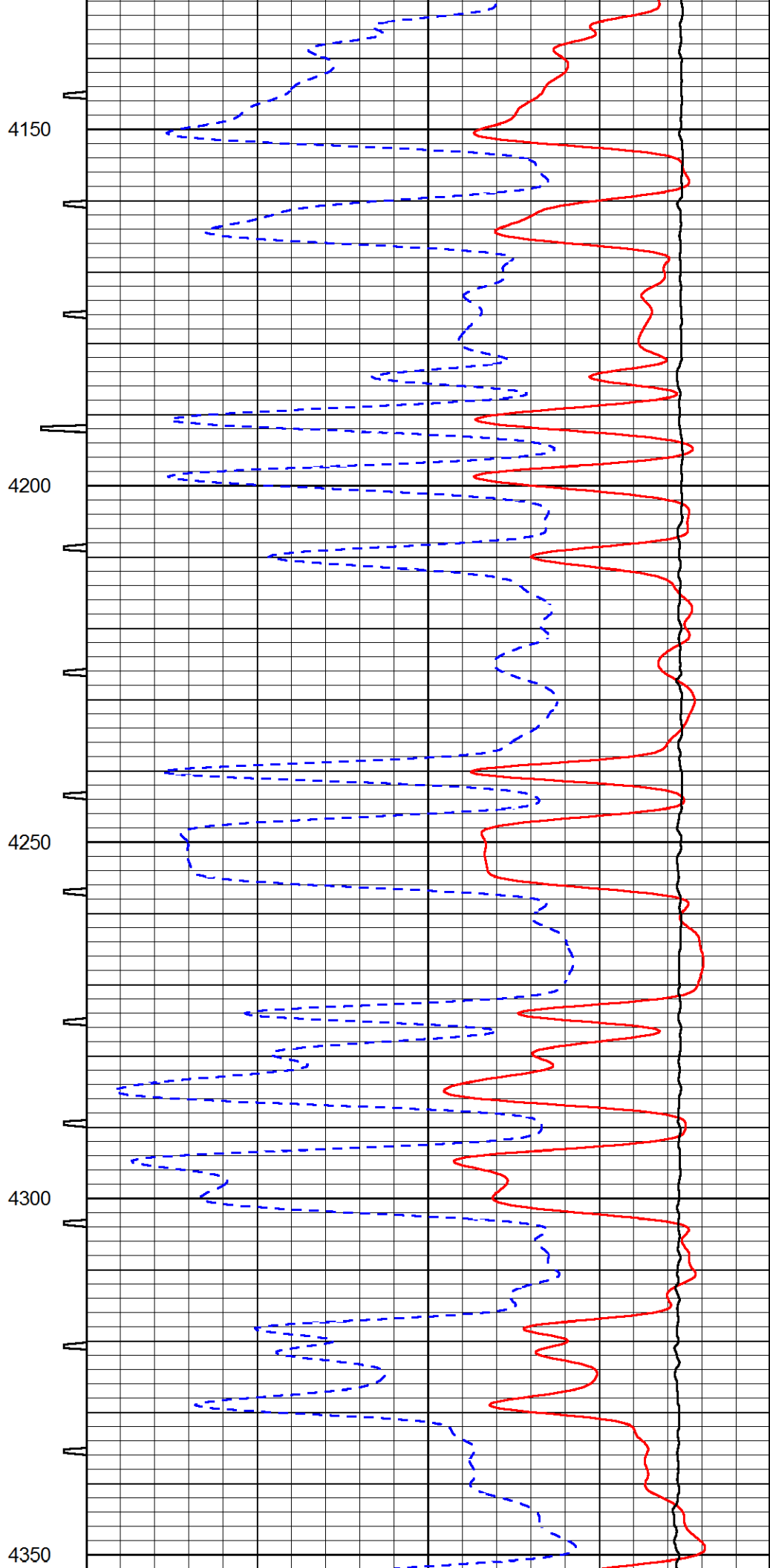
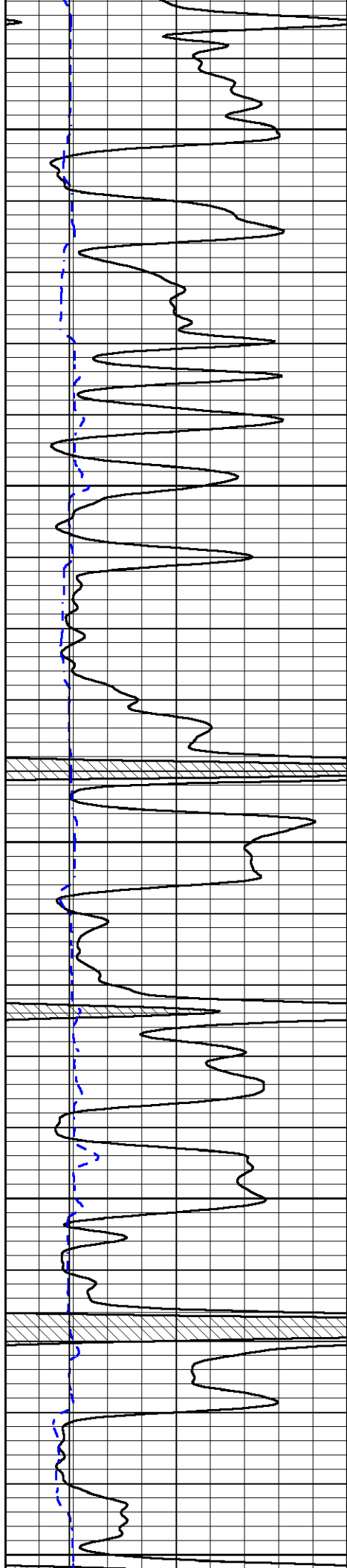


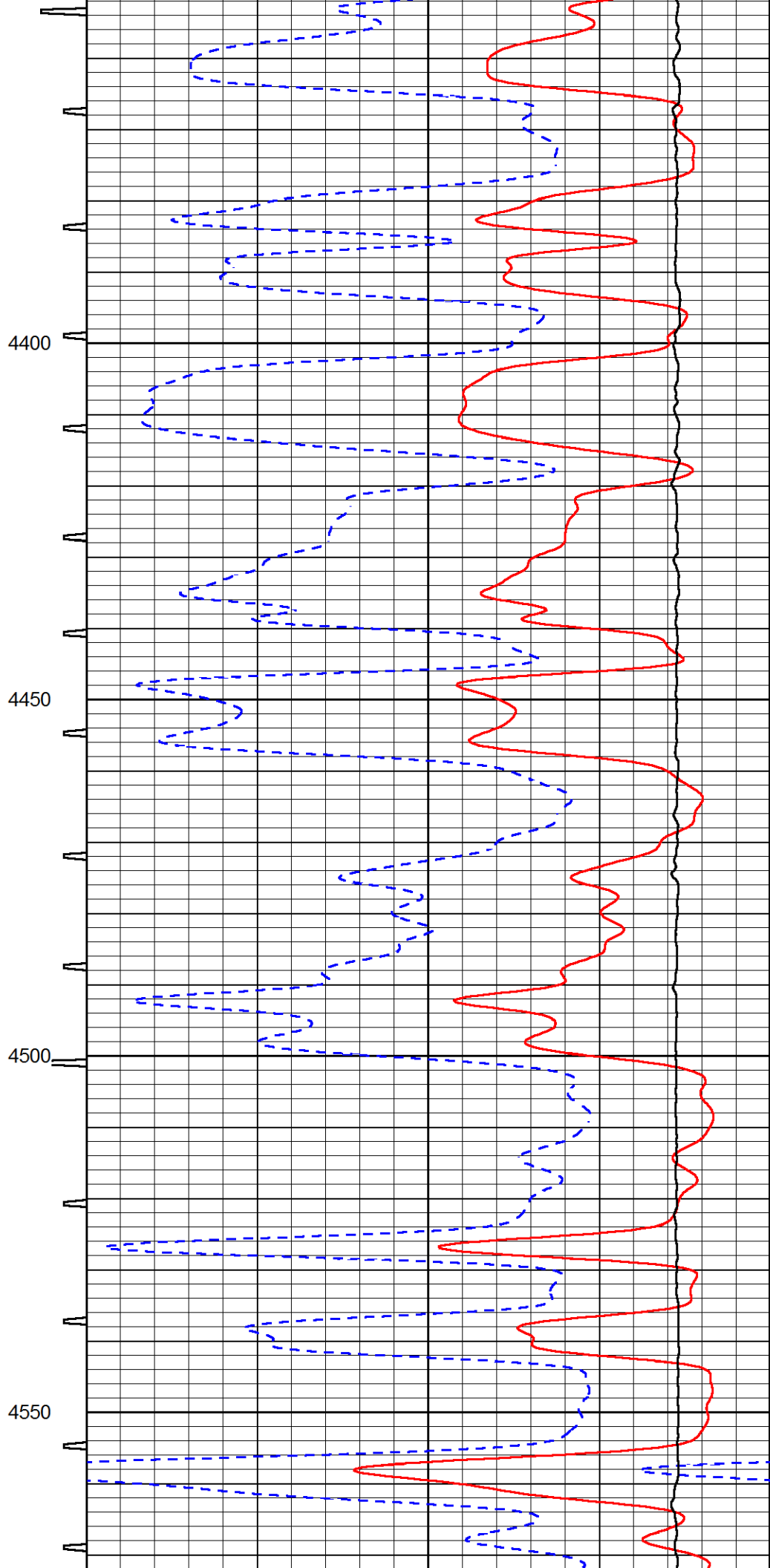
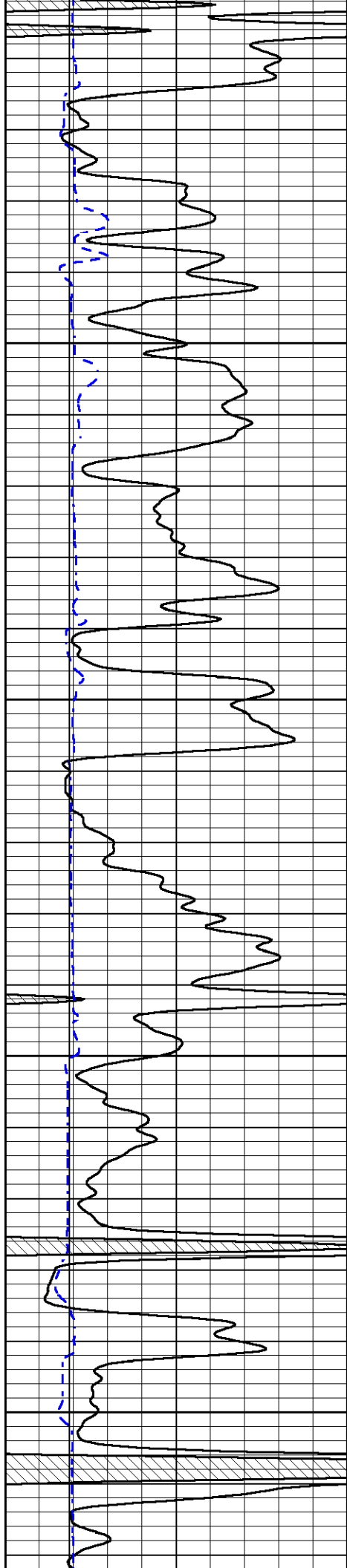


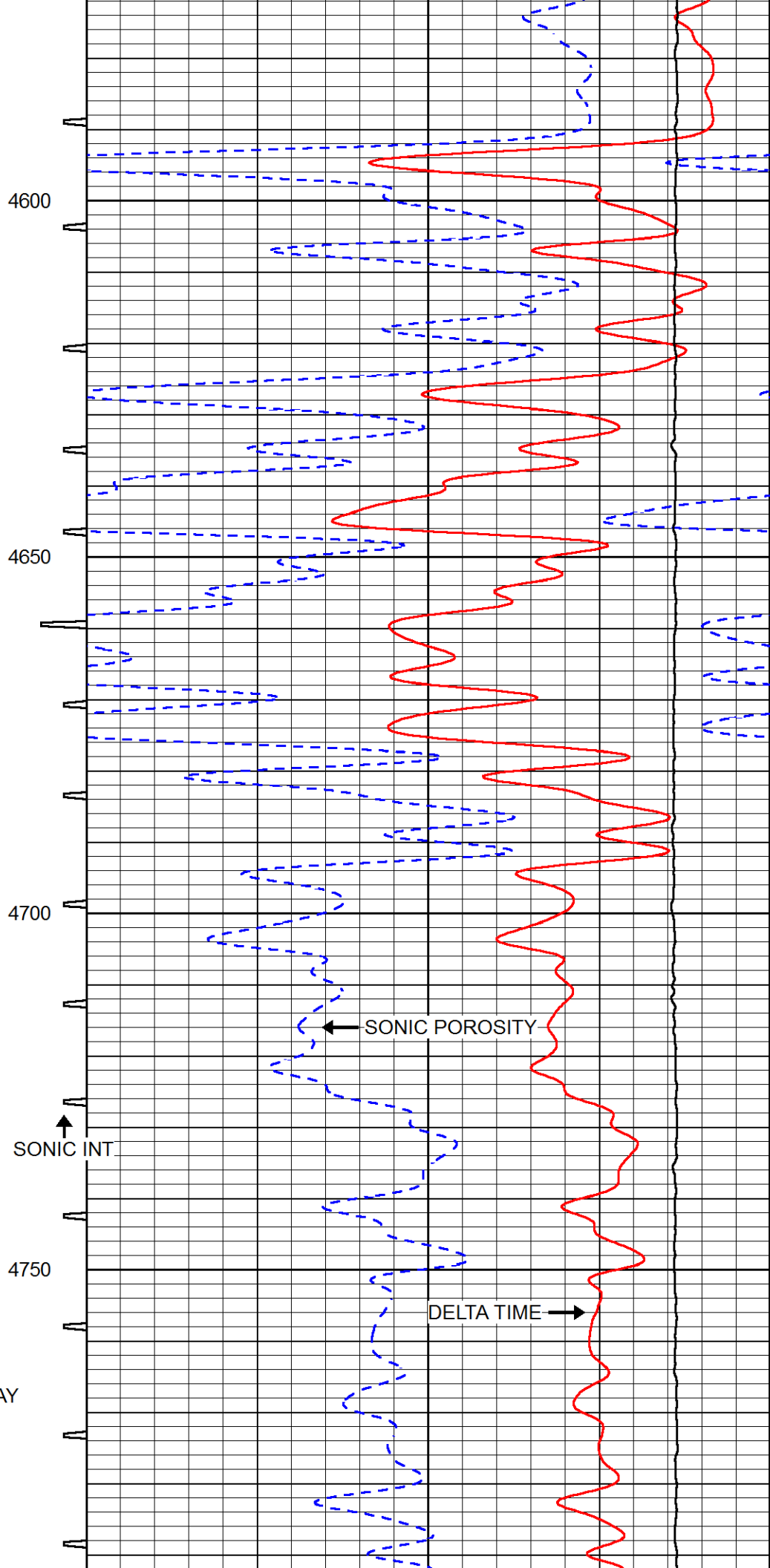
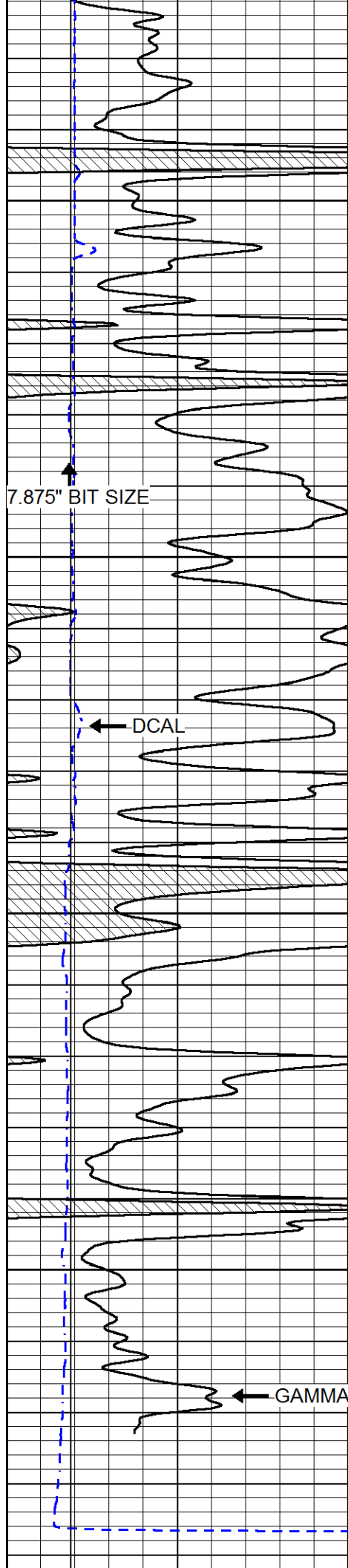












7.875" BIT SIZE

DCAL

4600

4650

4700

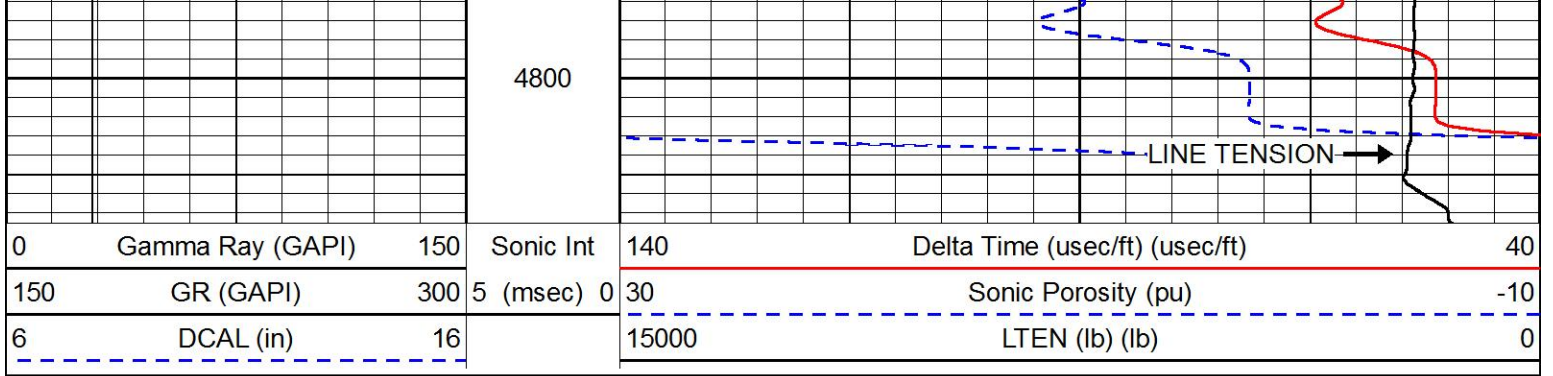
SONIC INT

4750

GAMMA RAY

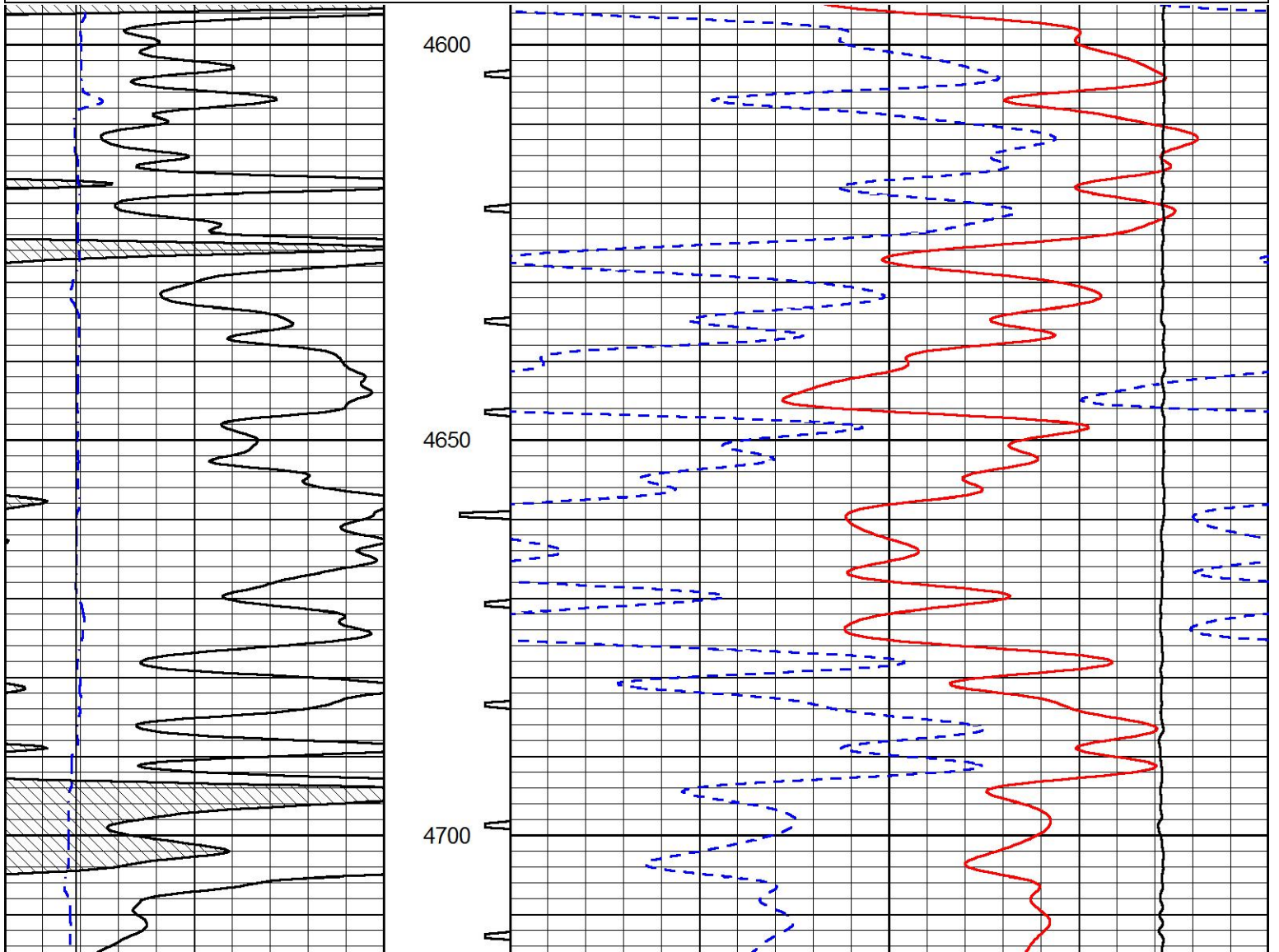
SONIC POROSITY

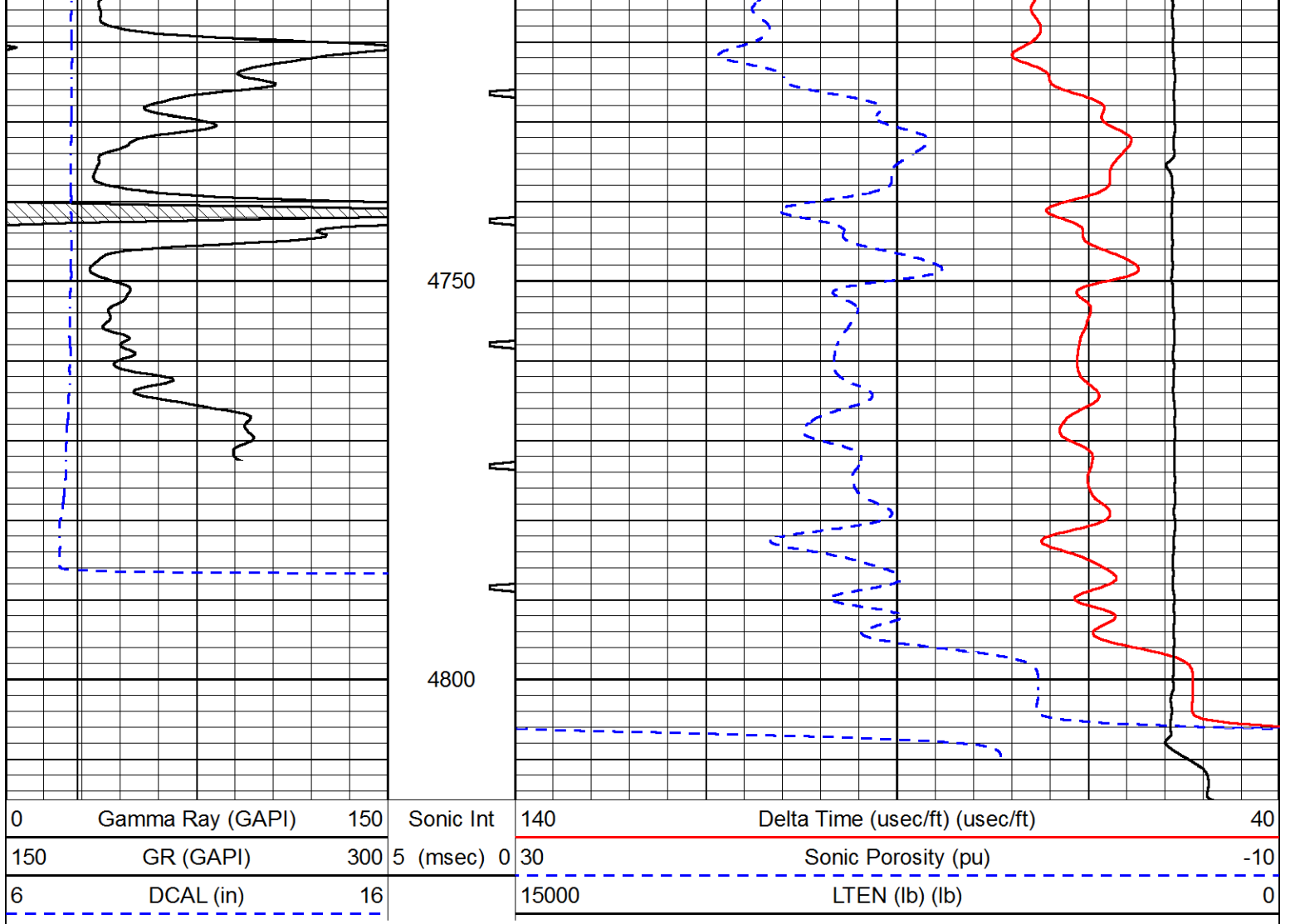
DELTA TIME



REPEAT SECTION

Database File gulf_henry 1-27.db
 Dataset Pathname STKML/pass2.1
 Presentation Format sonic
 Dataset Creation Wed Mar 28 05:01:19 2018
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File gulf_henry 1-27.db
 Dataset Pathname STKML/pass3.9
 Dataset Creation Wed Mar 28 05:08:37 2018

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
 Calibration Performed: Sun Feb 18 17:32:17 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.710	-20.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.550	-61.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Sun Mar 18 23:48:42 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	28500.0000	-0.6000

Compensated Density Calibration Report

Serial-Model: 182-152-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Wed Mar 28 03:05:33 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4992.81	6098.44	cps
Aluminum	2.672	g/cc	945.67	3945.60	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.533		
	Size		Reading		
Small Ring	4.50	in	1.09		
Large Ring	15.00	in	1.03		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: FRI MAR 9 10:30:30 2018

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W
 Calibration Performed: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



Company GULF EXPLORATION, LLC
 Well HENRY #1-27
 Field UNNAMED
 County THOMAS
 State KANSAS



**Company: Gulf Exploration,
LLC**
Lease: Henry #1-27

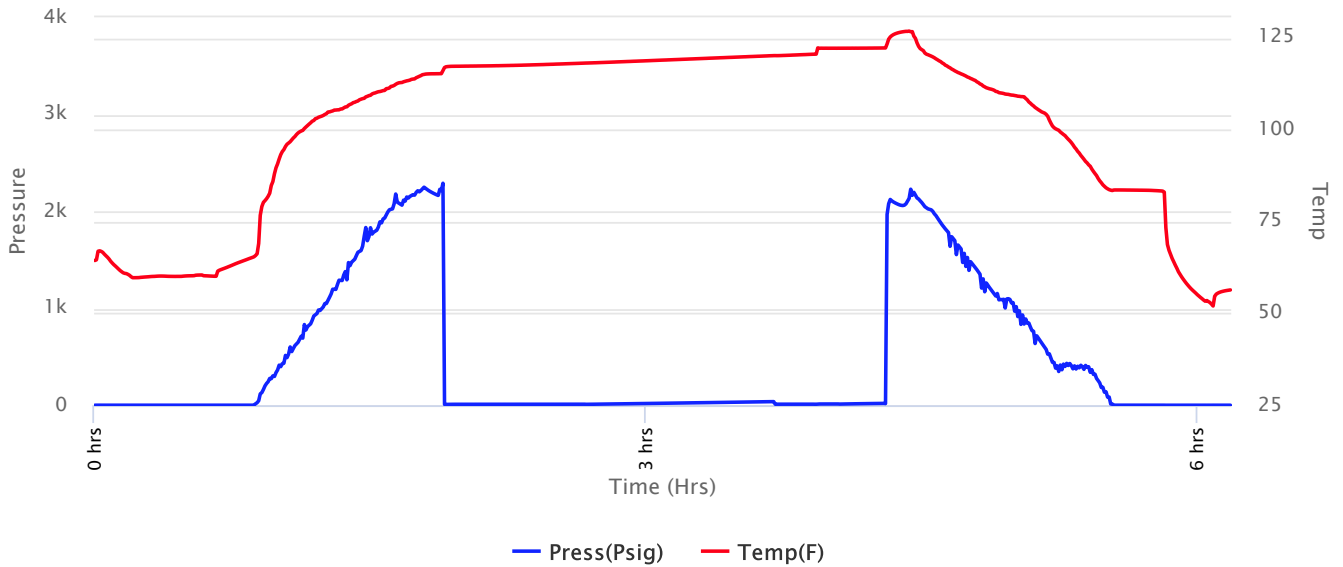
SEC: 27 TWN: 7S RNG: 35W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 7
Elevation: 3214 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 128

DATE
March
26
2018

DST #1 Formation: Pawnee Test Interval: 4470 - 4510' Total Depth: 4510'

Time On: 13:59 03/26 Time Off: 20:00 03/26
Time On Bottom: 15:49 03/26 Time Off Bottom: 18:09 03/26

Electronic Volume Estimate: 28'	<u>1st Open</u> Minutes: 45 .8" at 45 min	<u>1st Close</u> Minutes: 60 0" at 60 min	<u>2nd Open</u> Minutes: 20 0" at 20 min	<u>2nd Close</u> Minutes: 15 0" at 15 min
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Company: Gulf Exploration, LLC
Lease: Henry #1-27

SEC: 27 TWN: 7S RNG: 35W
 County: THOMAS
 State: Kansas
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 7
 Elevation: 3214 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 128

DATE
 March
26
 2018

DST #1 **Formation: Pawnee** **Test Interval: 4470 - 4510'** **Total Depth: 4510'**
 Time On: 13:59 03/26 Time Off: 20:00 03/26
 Time On Bottom: 15:49 03/26 Time Off Bottom: 18:09 03/26

Recovered

Foot	BBLs
5	0.0246

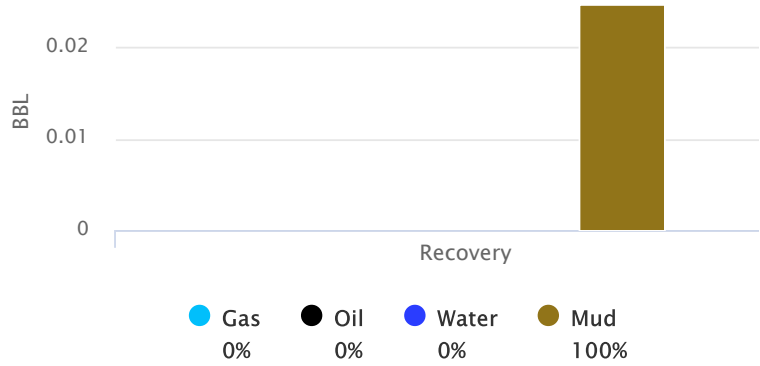
Description of Fluid	Gas %	Oil %	Water %	Mud %
M	0	0	0	100

Total Recovered: 5 ft
 Total Barrels Recovered: 0.0246

Reversed Out
 NO

Initial Hydrostatic Pressure	2215	PSI
Initial Flow	9 to 11	PSI
Initial Closed in Pressure	38	PSI
Final Flow Pressure	11 to 13	PSI
Final Closed in Pressure	20	PSI
Final Hydrostatic Pressure	2196	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	48.8	%

Recovery at a glance





**Company: Gulf Exploration,
LLC**
Lease: Henry #1-27

SEC: 27 TWN: 7S RNG: 35W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 7
Elevation: 3214 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 128

DATE March 26 2018

DST #1 Formation: Pawnee Test Interval: 4470 - Total Depth: 4510'
4510'

Time On: 13:59 03/26 Time Off: 20:00 03/26
Time On Bottom: 15:49 03/26 Time Off Bottom: 18:09 03/26

REMARKS:

IF: 1/4 inch blow
ISI: No BB
FF: No blow
FSI: No BB

We flushed tool 15 min into final flow period and just got the surge blow

The flush did show up on the mechanical recorder.

TOOL SAMPLE: OIL SPECKS, 100% MUD



**Company: Gulf Exploration,
LLC**
Lease: Henry #1-27

SEC: 27 TWN: 7S RNG: 35W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 7
Elevation: 3214 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 128

DATE
March
26
2018

DST #1 Formation: Pawnee Test Interval: 4470 - 4510' Total Depth: 4510'

Time On: 13:59 03/26 Time Off: 20:00 03/26
Time On Bottom: 15:49 03/26 Time Off Bottom: 18:09 03/26

Down Hole Makeup

Heads Up: 23.19 FT	Packer 1: 4465 FT
Drill Pipe: 4246.59 FT <i>ID-3 1/2</i>	Packer 2: 4470 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4454.42 FT
Collars: 214.03 FT <i>ID-2 1/4</i>	Bottom Recorder: 4472 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 40	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 39 FT <i>4 1/2-FH</i>	



**Company: Gulf Exploration,
LLC**
Lease: Henry #1-27

SEC: 27 TWN: 7S RNG: 35W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 7
Elevation: 3214 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 128

DATE
March
27
2018

DST #2	Formation: Cherokee	Test Interval: 4586 - 4616'	Total Depth: 4616'
	Time On: 07:42 03/27	Time Off: 14:12 03/27	
	Time On Bottom: 10:17 03/27	Time Off Bottom: 12:02 03/27	

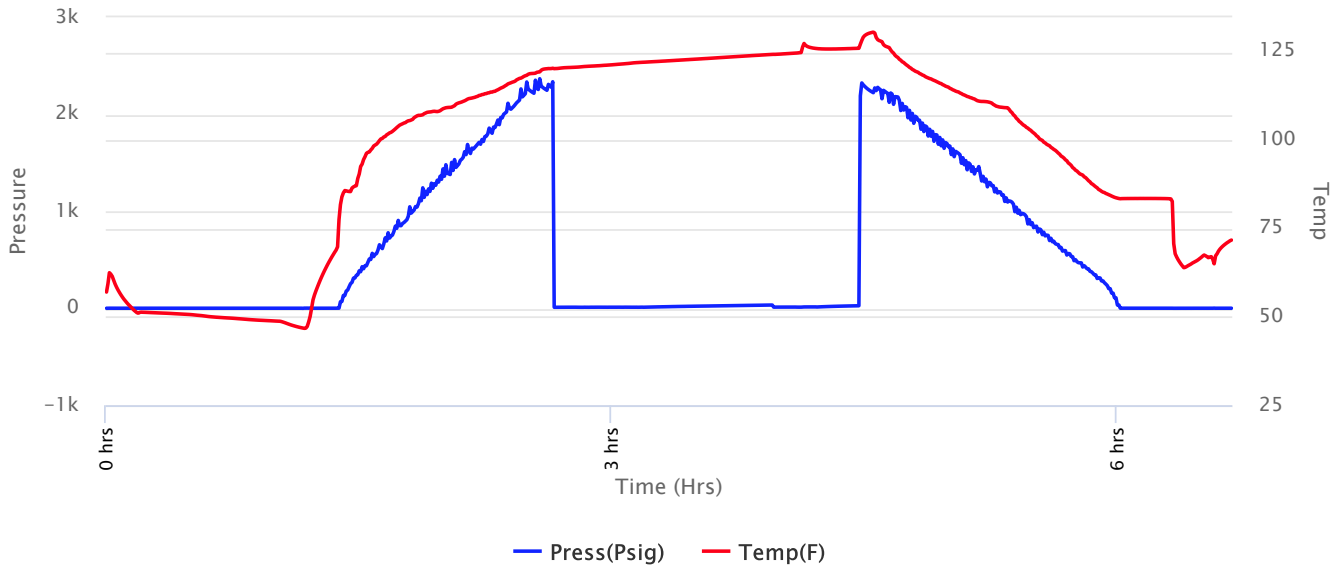
Electronic Volume
Estimate:
0'

1st Open
Minutes: 30
0" at 30 min

1st Close
Minutes: 45
0" at 45 min

2nd Open
Minutes: 15
0" at 15 min

2nd Close
Minutes: 15
0" at 15 min





Company: Gulf Exploration, LLC
Lease: Henry #1-27

SEC: 27 TWN: 7S RNG: 35W
 County: THOMAS
 State: Kansas
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 7
 Elevation: 3214 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 128

DATE
 March
27
 2018

DST #2 **Formation: Cherokee** **Test Interval: 4586 - 4616'** **Total Depth: 4616'**
 Time On: 07:42 03/27 Time Off: 14:12 03/27
 Time On Bottom: 10:17 03/27 Time Off Bottom: 12:02 03/27

Recovered

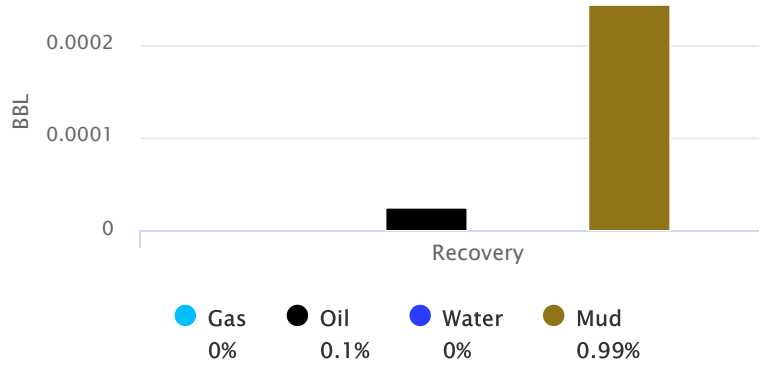
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.0246	M (trace O)	0	.1	0	.99

Total Recovered: 5 ft
 Total Barrels Recovered: 0.0246

Reversed Out
 NO

Initial Hydrostatic Pressure	2248	PSI
Initial Flow	10 to 12	PSI
Initial Closed in Pressure	34	PSI
Final Flow Pressure	12 to 14	PSI
Final Closed in Pressure	26	PSI
Final Hydrostatic Pressure	2241	PSI
Temperature	127	°F
Pressure Change Initial Close / Final Close	22.2	%

Recovery at a glance





**Company: Gulf Exploration,
LLC
Lease: Henry #1-27**

SEC: 27 TWN: 7S RNG: 35W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 7
Elevation: 3214 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 128

DATE March 27 2018

DST #2	Formation: Cherokee	Test Interval: 4586 - 4616'	Total Depth: 4616'
	Time On: 07:42 03/27	Time Off: 14:12 03/27	
	Time On Bottom: 10:17 03/27	Time Off Bottom: 12:02 03/27	

REMARKS:

IF: 1/4 inch blow
ISI: No BB
FF: No blow
FSI: No BB

We flushed tool 10 min into final flow period and got a very weak surface blow lading 1 1/2 min.
The flush showed up on the mechanical chart.

TOOL SAMPLE: OIL SPECKS, 100% MUD



**Company: Gulf Exploration,
LLC**
Lease: Henry #1-27

SEC: 27 TWN: 7S RNG: 35W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 7
Elevation: 3214 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 128

<p>DATE March 27 2018</p>

DST #2 **Formation:** Cherokee **Test Interval: 4586 - 4616'** **Total Depth: 4616'**

Time On: 07:42 03/27 Time Off: 14:12 03/27
Time On Bottom: 10:17 03/27 Time Off Bottom: 12:02 03/27

Down Hole Makeup

Heads Up: 2.38 FT	Packer 1: 4581 FT
Drill Pipe: 4341.78 FT <i>ID-3 1/2</i>	Packer 2: 4586 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4570.42 FT
Collars: 214.03 FT <i>ID-2 1/4</i>	Bottom Recorder: 4588 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 30	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 29 FT <i>4 1/2-FH</i>	



**Company: Gulf Exploration,
LLC
Lease: Henry #1-27**

SEC: 27 TWN: 7S RNG: 35W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 7
Elevation: 3214 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 128

DATE March 27 2018

DST #2	Formation: Cherokee	Test Interval: 4586 - 4616'	Total Depth: 4616'
	Time On: 07:42 03/27	Time Off: 14:12 03/27	
	Time On Bottom: 10:17 03/27	Time Off Bottom: 12:02 03/27	

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 60 **Filtrate:** 7.0 **Chlorides:** 2,800 ppm

