

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1258920
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: _____

1258920

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

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

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Roberts Resources, Inc.
Well Name	Etheridge Trust 1-16
Doc ID	1258920

All Electric Logs Run

Dual Compensated Porosity
Dual Induction
Micro
Sector Bond Log



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1003562	1718	07/01/2015
INVOICE NUMBER			
91850142			

Pratt (620) 672-1201
 B ROBERTS RESOURCES INC
 I 2020 N TYLER RD STE 106
 L WICHITA
 L KS US 67212
 T
 O **ATTN:** ACCOUNTS PAYABLE

J **LEASE NAME** Etheridge 1-16
 O **LOCATION**
 B **COUNTY** Barber
 S **STATE** KS
 I **JOB DESCRIPTION** Cement-New Well Casing/Pi
 T **JOB CONTACT**
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40853750	19843		Net - 30 days	07/31/2015

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 06/30/2015 to 06/30/2015</i>				
0040853750				
171812275A Cement-New Well Casing/Pi 06/30/2015 Cement 8 5/8 Surface				
Cement	190.00	EA	6.60	1,253.99 T
Celloflake	48.00	EA	2.04	97.68 T
Calcium Chloride	492.00	EA	0.58	284.13 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	88.00	88.00
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	2.48	86.63
Heavy Equipment Mileage	70.00	MI	4.13	288.75
"Proppant & Bulk Del. Chgs., per ton mil	287.00	EA	1.38	394.63
Depth Charge; 0-500'	1.00	EA	550.00	550.00
Blending & Mixing Service Charge	190.00	BAG	0.77	146.30
Plug Container Util. Chg.	1.00	EA	137.50	137.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.25	96.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,423.86
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	122.69
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,546.55
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

Customer Roberts Resources, Inc.		Lease No.		Date 6-30-2015	
Lease Etheridge		Well # 1-16			
Field Order # 12275	Station Pratt, KS	Casing 8 5/8	Depth 270'	County Borbor	State KS
Type Job CNW/ 8 5/8 sulfate			Formation 10-270	Legal Description 16-325-12w	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
8 5/8				Pre Pad	Max		5 Min.
Depth 270'	Depth	From	To	Pad	Min		10 Min.
Volume 176 bbls	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush Freshwater	Gas Volume		Total Load
Plug Depth 250'	Packer Depth	From	To				

Customer Representative Daniel			Station Manager Kevin Golder			Treater Darin Fricklin		
Service Units	92911	84981	19843	19960	19862			
Driver Names	Darin	Ed	Ed	SPRICKS	SPRICKS			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00pm					on location / safety meetings
					190 SIC 60/40 P02, 2% Gel, 3% CC
					1/4 # Cellfloc, 14.8 pps, 1.21 v. #2, 5.18 wcp
8:30pm	200		3	3	Pump 3 bbls water
	200		41	3	mix 190 sbs cement
					Shut down
					Release plug
	200		16	3	Displace 16 bbl water
					Shut in
					Cement did circulate 10 bbls
					Thank you!!!



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1003562	1718	07/17/2015
INVOICE NUMBER			
91863373			

Pratt (620) 672-1201
 B ROBERTS RESOURCES INC
 I 2020 N TYLER RD STE 106
 L WICHITA
 L KS US 67212
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Etheridge 1-16
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40858142	19905		Net - 30 days	08/16/2015

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 07/11/2015 to 07/11/2015				
0040858142				
171811971A Cement-New Well Casing/Pi 07/11/2015 Cement 5 1/2" Longstring				
60/40 POZ	100.00	EA	6.24	624.00 T
AA2 Cement	180.00	EA	8.84	1,591.20 T
Celloflake	46.00	EA	1.92	88.50 T
C-41P	43.00	EA	2.08	89.44 T
Salt	894.00	EA	0.26	232.44 T
Cement Friction Reducer	51.00	EA	3.12	159.12 T
C-44	170.00	EA	2.68	455.26 T
FLA-322	85.00	EA	3.90	331.50 T
Super Flush	500.00	EA	1.27	637.00 T
Gilsonite	900.00	EA	0.35	313.56 T
Claymax KXL Substitute	5.00	EA	18.20	91.00 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	208.00	208.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	187.20	187.20
"Turboflizer, 5 1/2" (Blue)"	10.00	EA	57.20	572.00
"5 1/2" Basket (Blue)"	2.00	EA	150.80	301.60
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	2.34	81.90
Heavy Equipment Mileage	70.00	MI	3.90	273.00
"Proppant & Bulk Del. Chgs., per ton mil	448.00	EA	1.30	582.40
Depth Charge; 4001'-5000'	1.00	EA	1,310.40	1,310.40
Blending & Mixing Service Charge	280.00	BAG	0.73	203.84
Plug Container Util. Chg.	1.00	EA	130.00	130.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	91.00	91.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,554.36
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	345.98
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	8,900.34
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

Customer ROBERTS RESOURCES, INC		Lease No.		Date 7-11-15	
Lease ETHERIDGE		Well # 1-16			
Field Order # 11971	Station Pratt	Casing 5 1/2	Depth 4916.15	County BAIRD	State KS
Type Job cnw 5 1/2 Long string			Formation	Legal Description 16-323-12W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid 50 60/40 102		RATE	PRESS	ISIP
Depth 4916.15	Depth	From	To	Pre Pad 150 sacs 207		Max		5 Min.
Volume 117	Volume	From	To	Pad 50 sacs 60/40		Min		10 Min.
Max Press 2,000	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 4874	Packer Depth	From	To	Flush 116-0		Gas Volume		Total Load

Customer Representative KEVIN ROBERTS	Station Manager Kerina Goring	Treater MIKE MATTOI
--	----------------------------------	------------------------

Service Units 37586		77686	19901		19959	21016				
Driver Names MATTOI		M. Goring			CLYMER					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:55					ON LOCATION, SATTEV MEET. 3
9:47					Run 5 1/2 15.5 casing, 42.15' shoe
-					BASKETS ON TOP OF 3+14
-					Turbos ON 2, 4, 6, 9, 11, 13, 16, 19, 22, 25
11:28					CASING ON BOTTOM
11:36					HOOK TO CSNG/ BREAK CIRC W. R-9
12:44	300		3	5	PUMP 3 BBL WATER
12:45			12	5	PUMP 500 GUL. SUPER FLUSH
12:49			3	5	PUMP 3 BBL WATER
12:49			10	5.5	MIX 50' SACS SEAVERS @ 14.4 PPG
12:51			45	5.5	MIX 180 SACS AA-2 @ 15 PPG
1:00			4	3	WASH PUMP + LINE
1:02	100		-	6.5	START DISPLACEMENT
1:15	250		82	6	LIFT PRESSURE
1:20	800		110	4	SLOW RATE
1:23	1500		116	-	PLUG DOWN, RELEASED + HOLD
1:35			7, 5	-	PLUG FAT + MOUSE HOLD
					CIRC. THRU JOB
					JOB COMPLETE
					THANKYOU!
					MIKE MATTOI
					MIKE + CHUCK

*Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

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**DUAL COMPENSATED
POROSITY LOG**

Company **ROBERTS RESOURCES**
 Well **ETHERIDGE TRUST #1-16**
 Field **EBY**
 County **BARBER**
 State **KANSAS**

Company **ROBERTS RESOURCES**
 Well **ETHERIDGE TRUST #1-16**
 Field **EBY**
 County **BARBER** State **KANSAS**

Location: **API #: 15-007-24276-00-00**
3010' FSL & 1910' FEL
 SEC 16 TWP 32S RGE 12W
 Permanent Datum **GROUND LEVEL** Elevation **1627**
 Log Measured From **KELLY BUSHING**
 Drilling Measured From **KELLY BUSHING**
 Other Services **DIL ML**
 Elevation **K.B. 1639**
D.F. N/A
G.L. 1627

Date	7/10/2015
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4920'
Depth Logger	4922'
Bottom Logged Interval	4920'
Top Logged Interval	2000
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	5,000
Density	9.1
Level	Full
Max. Rec. Temp. F	125
Operating Rig Time	4 Hours
Equipment -- Location	108 HAYS
Recorded By	J. HENRICKSON
Witnessed By	KENT ROBERTS

Run No.	Bit	Borehole Record		Casing Record	
		From	To	From	To
1	12.25	00	268	8.625	24#
2	7.875	268	4920		

<<< 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.

Medicine Lodge Kansas
 West to 281 Junction, 1/2 West to Woodward Rd,
 Go south and road turns into Red Rock Rd, Follow West to Tank Battery
 West Into

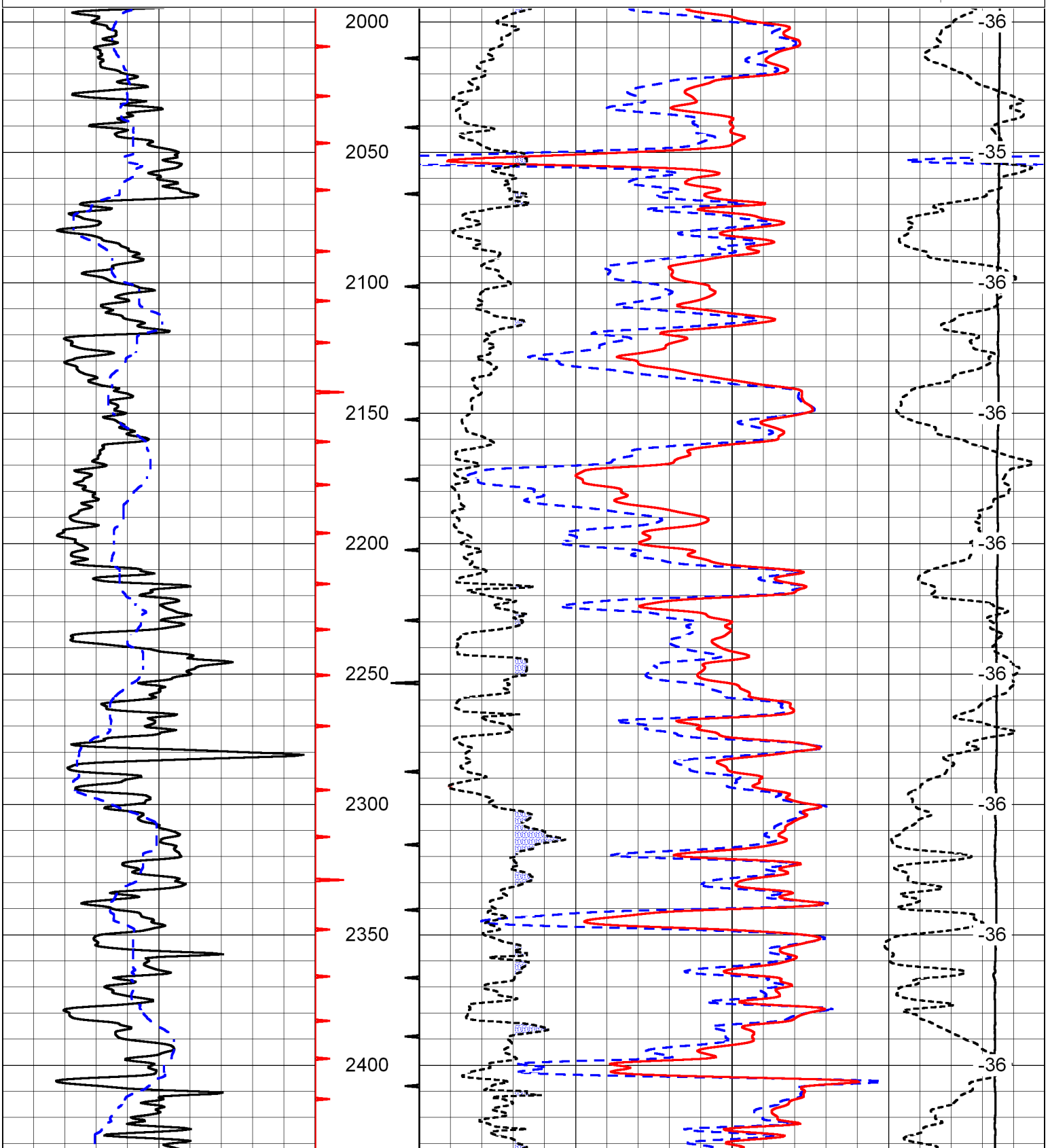
Log Measured From: **KELLY BUSHING** 12' Ft. Above Permanent Datum

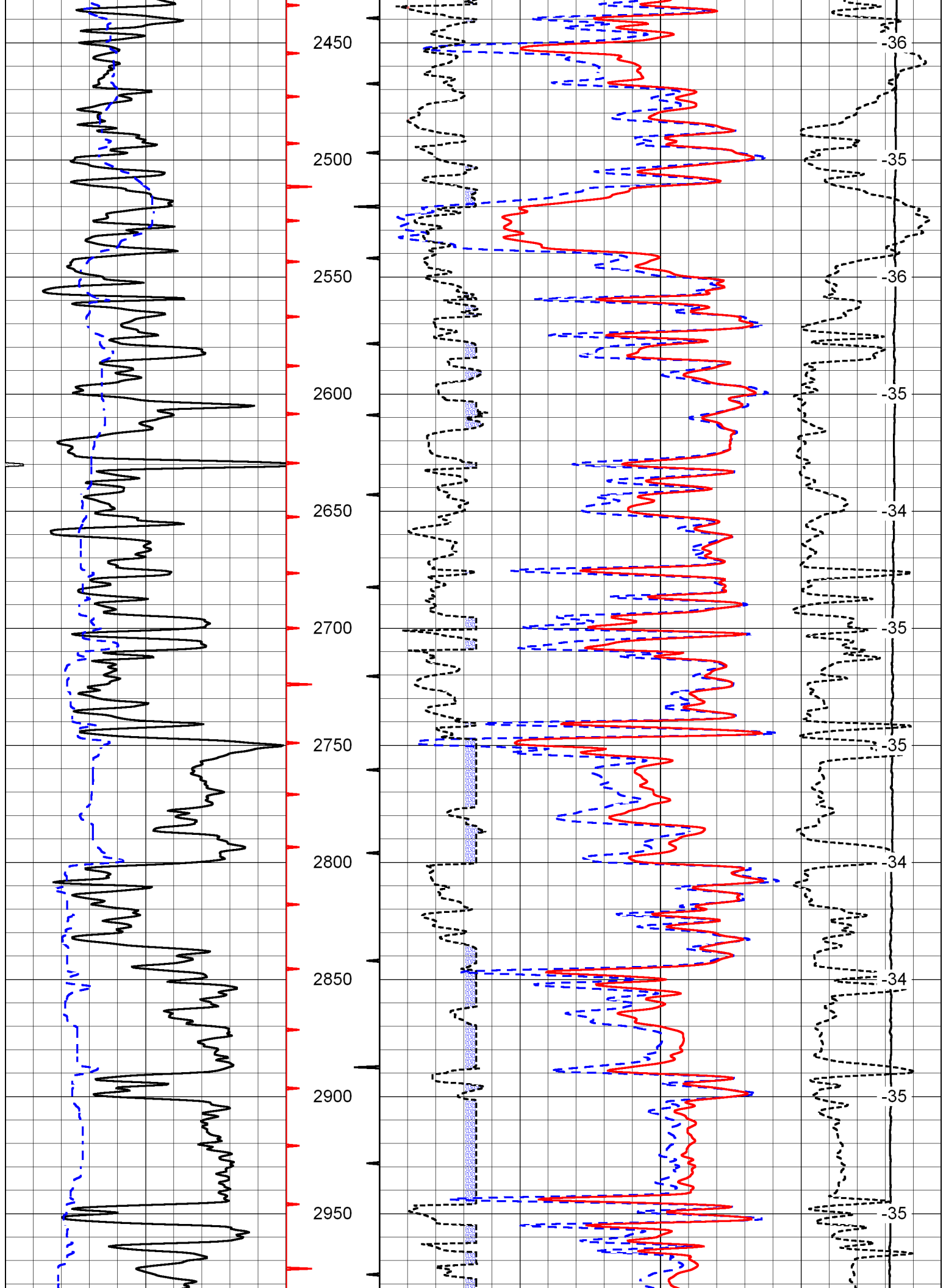
THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

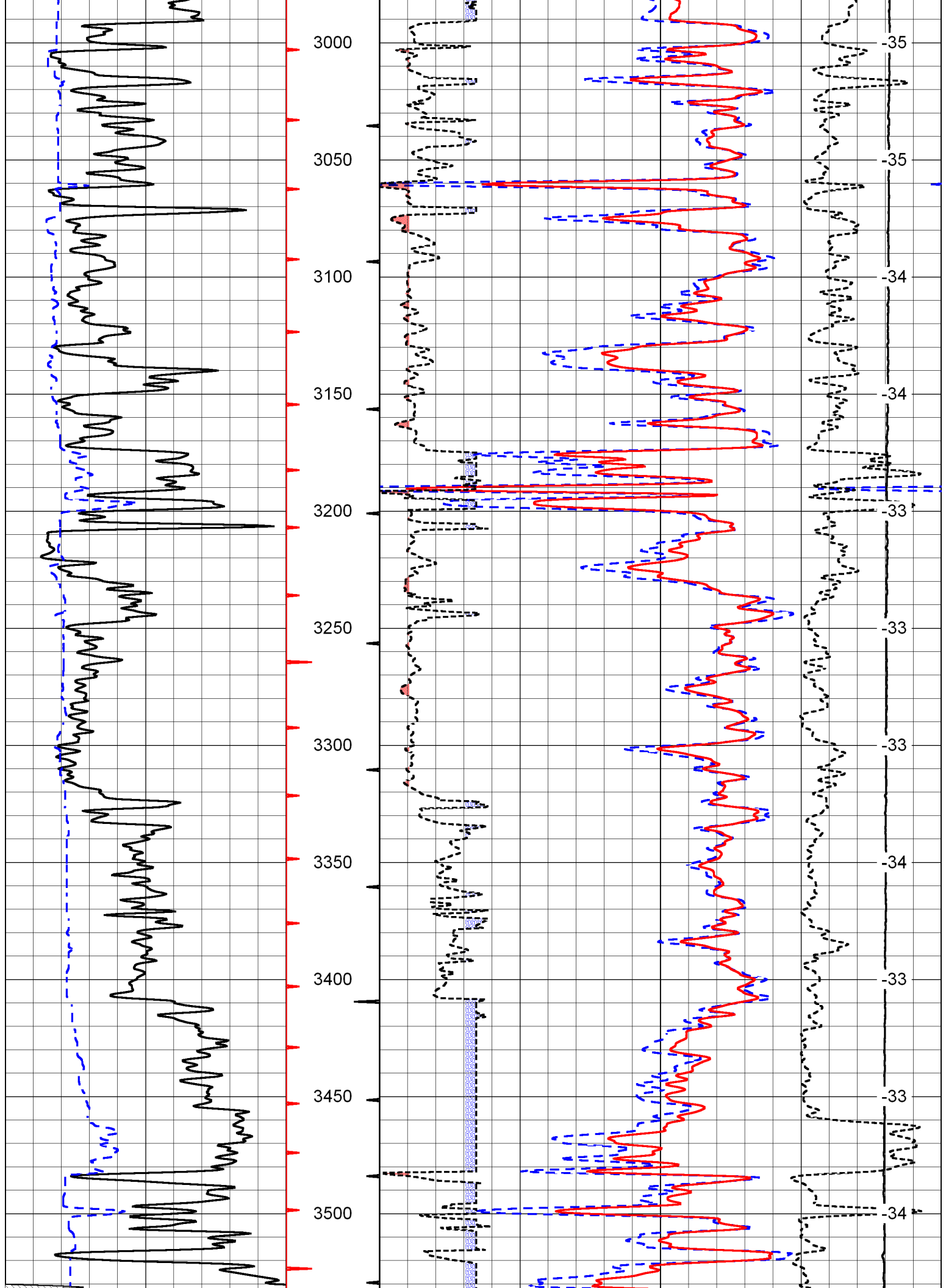
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. HENRICKSON	Primary Witness: KENT ROBERTS
Operator: K. PFANNENSTIEL	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

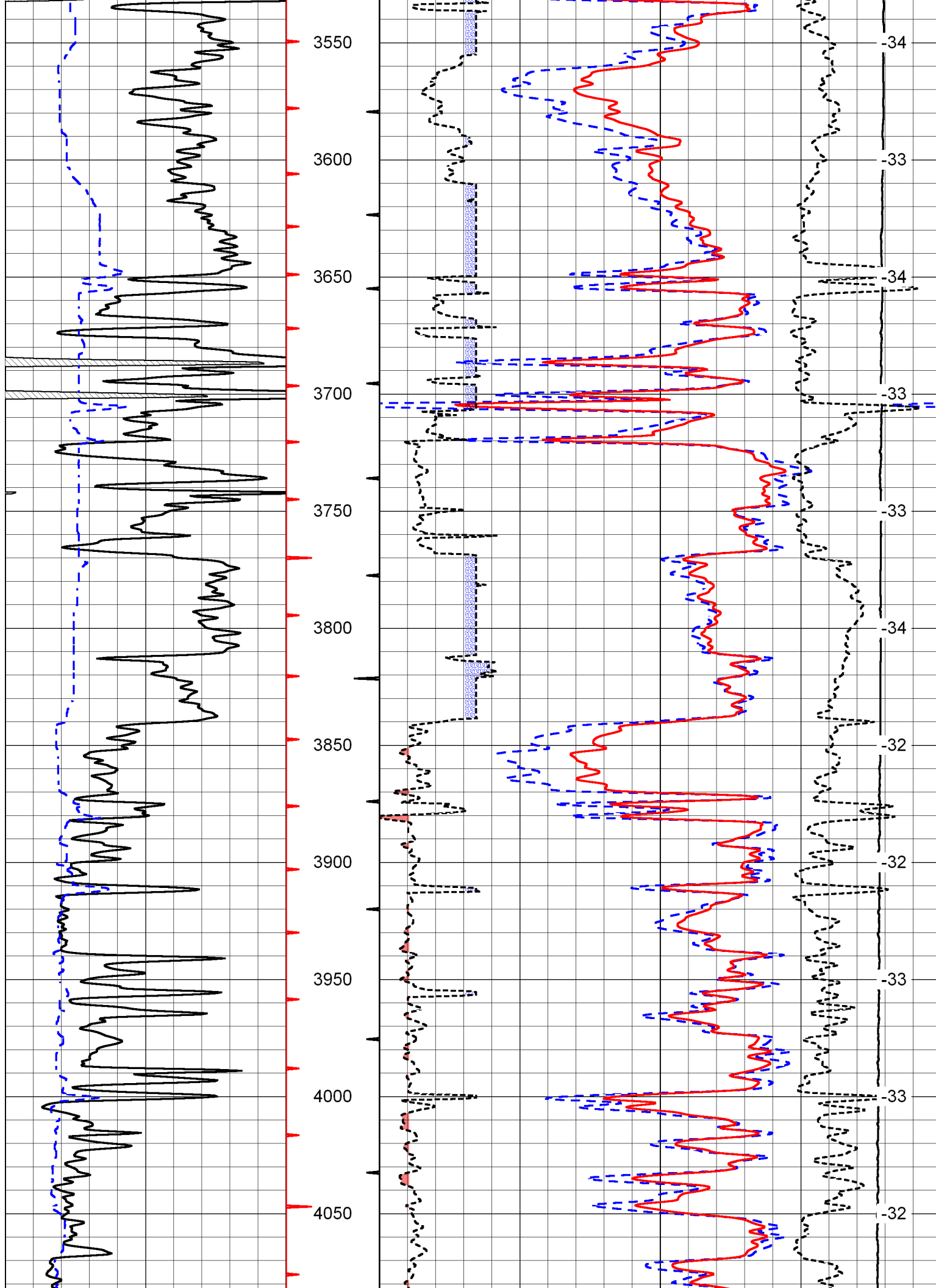
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 Dataset Pathname DIL/robstk
 Presentation Format cdl
 Dataset Creation Sat Jul 11 00:32:56 2015
 Charted by Depth in Feet scaled 1:600

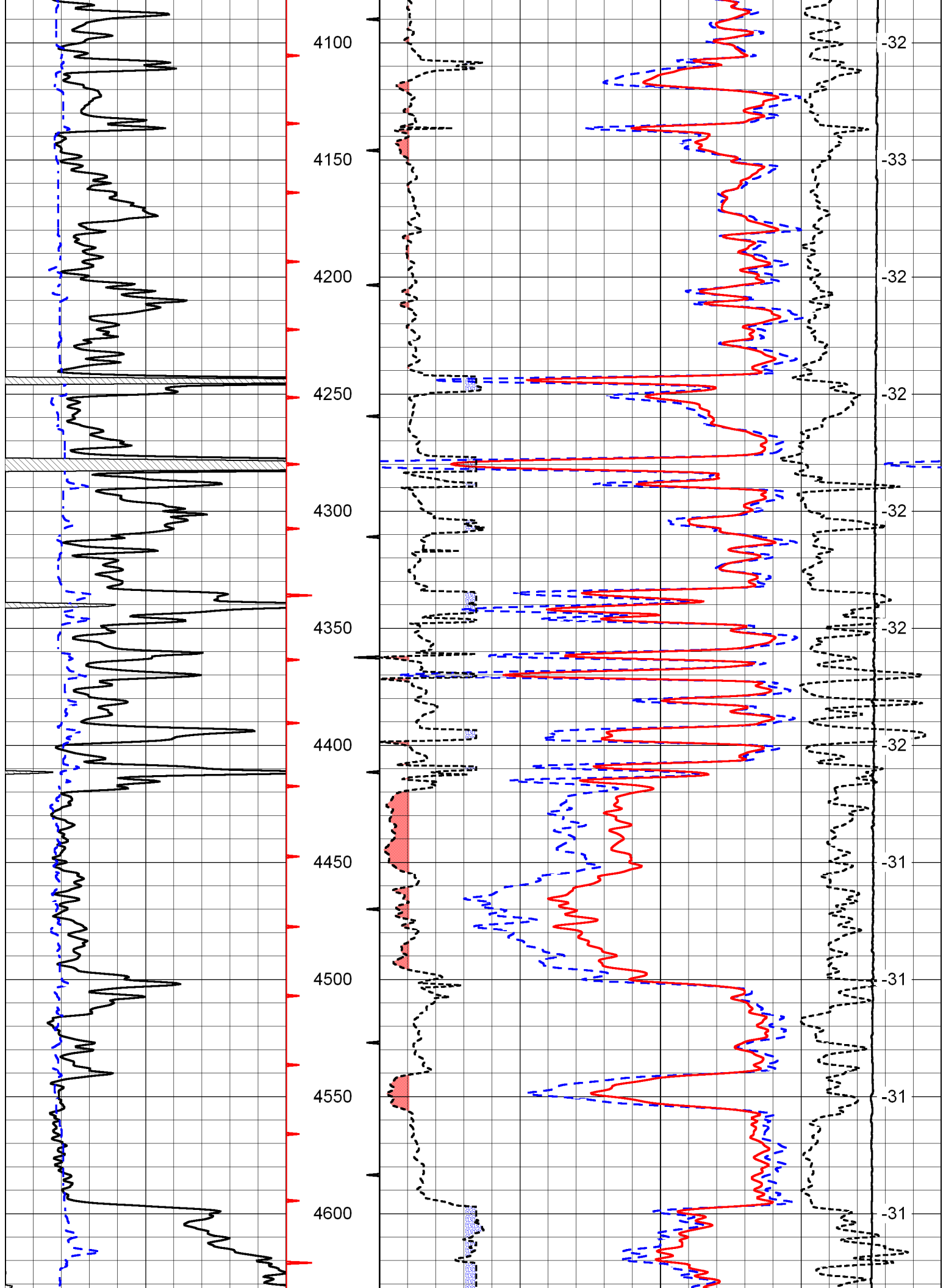
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6	Caliper (in)	16	2	Bulk Density		3
			15000	Line Tension		0
			2.625	DGA	3.425	-0.25
			Correction		0.25	
LSPD						

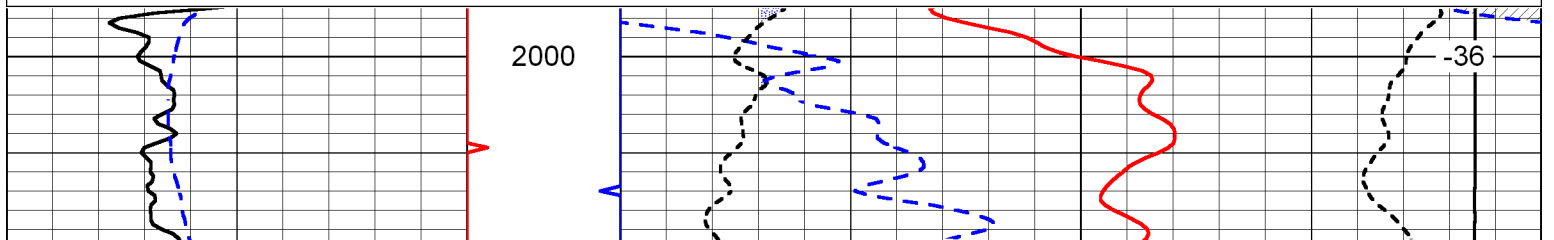
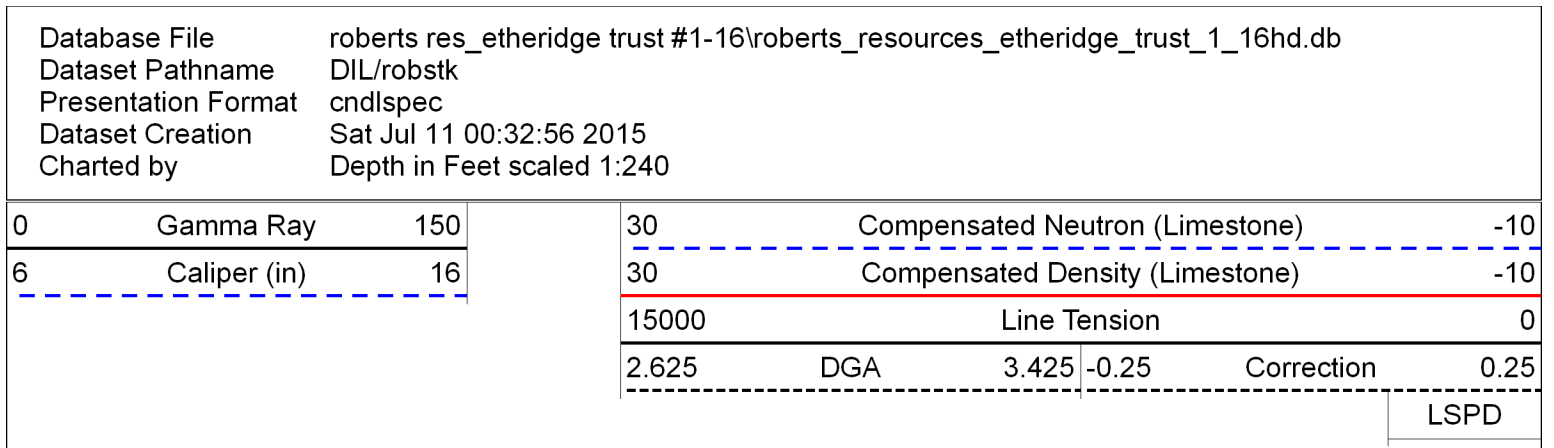
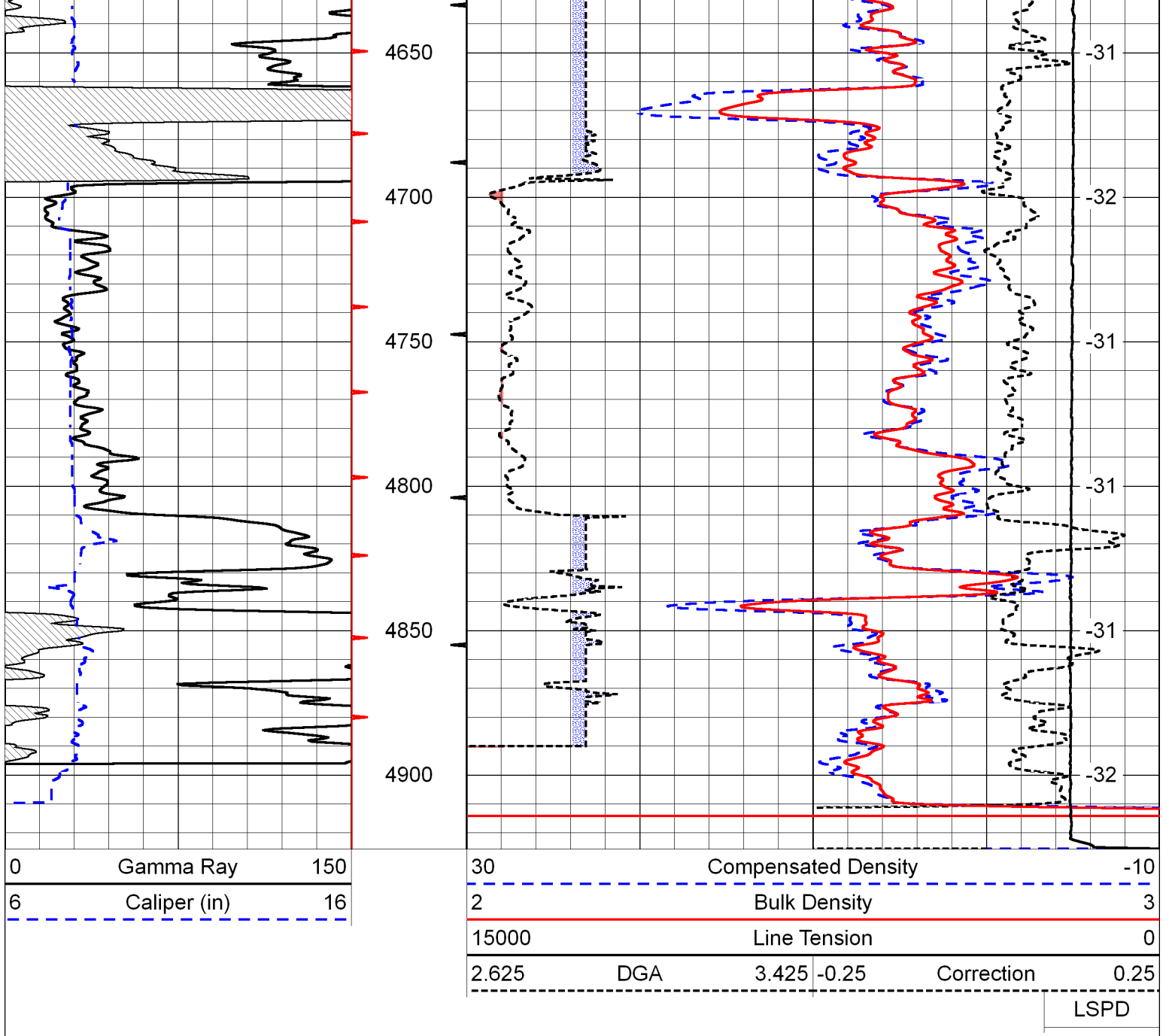


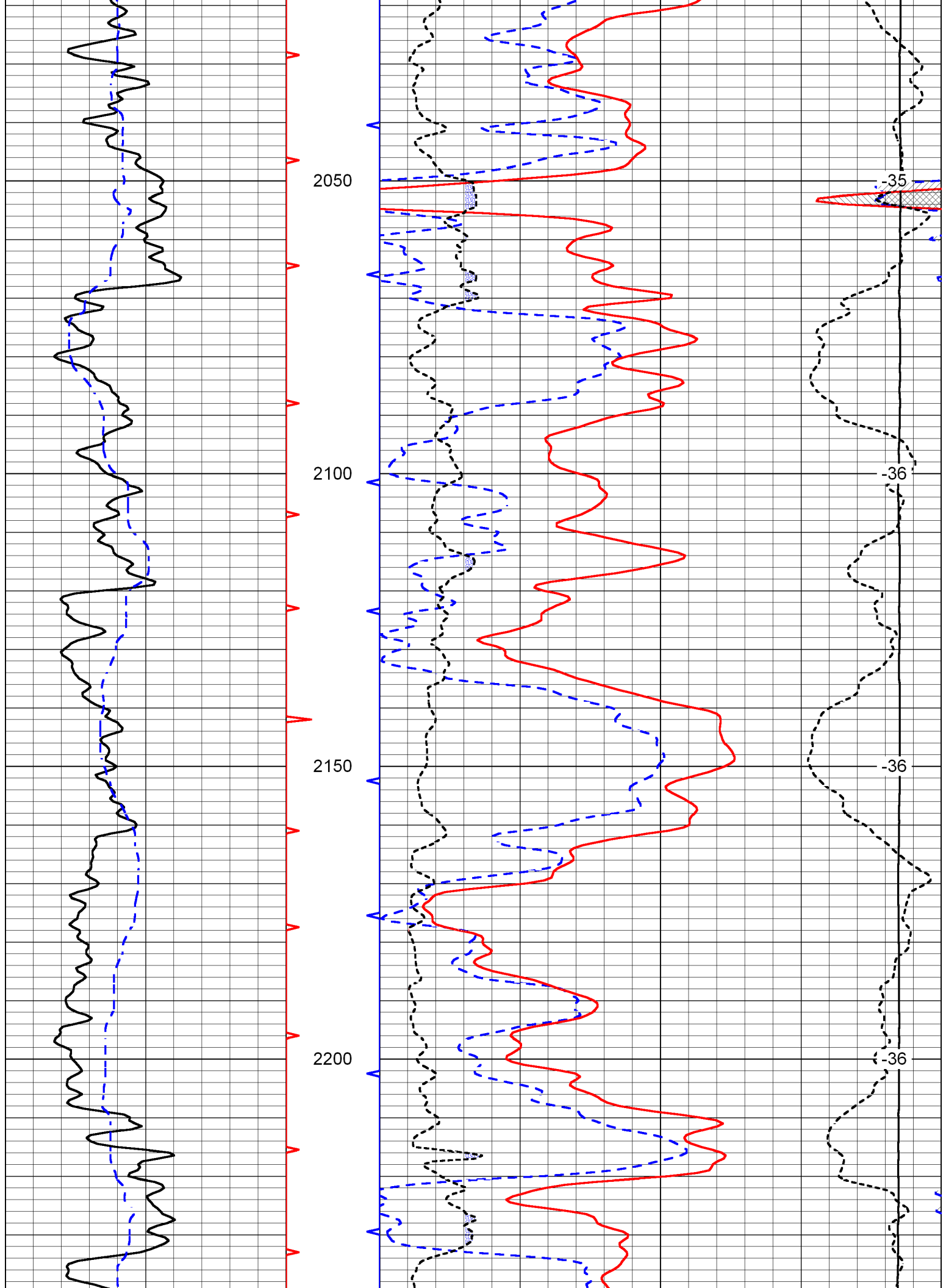


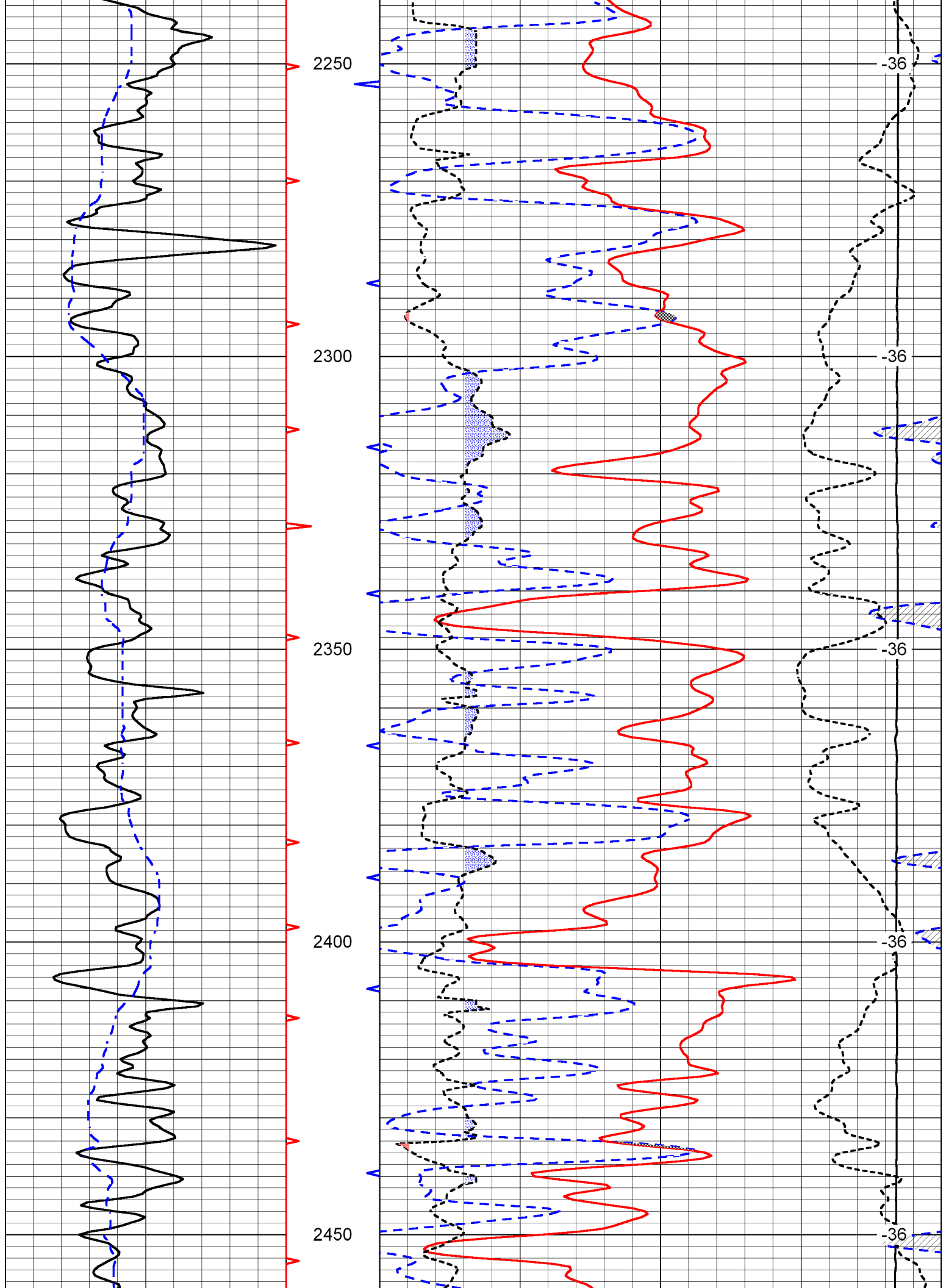


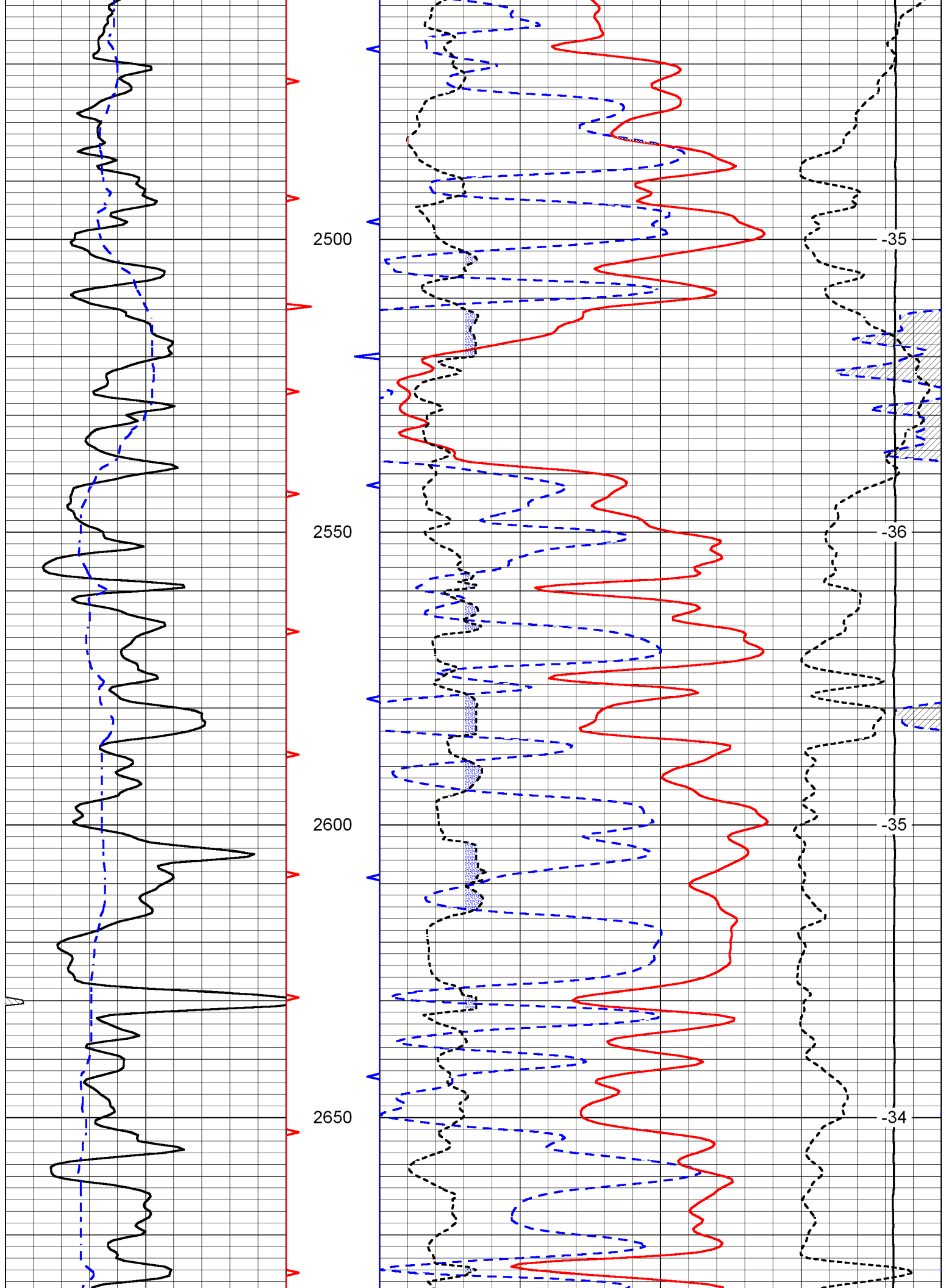


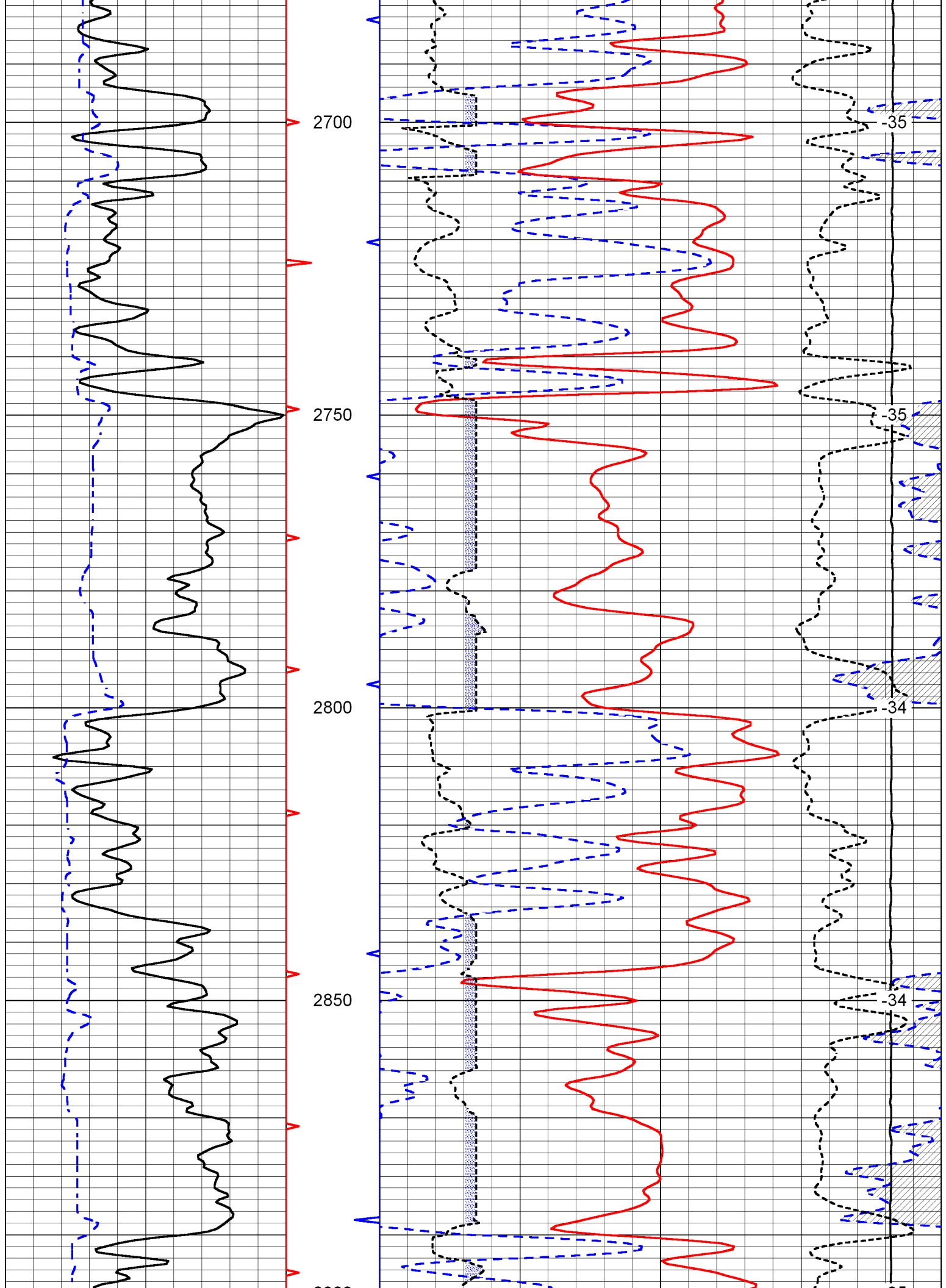


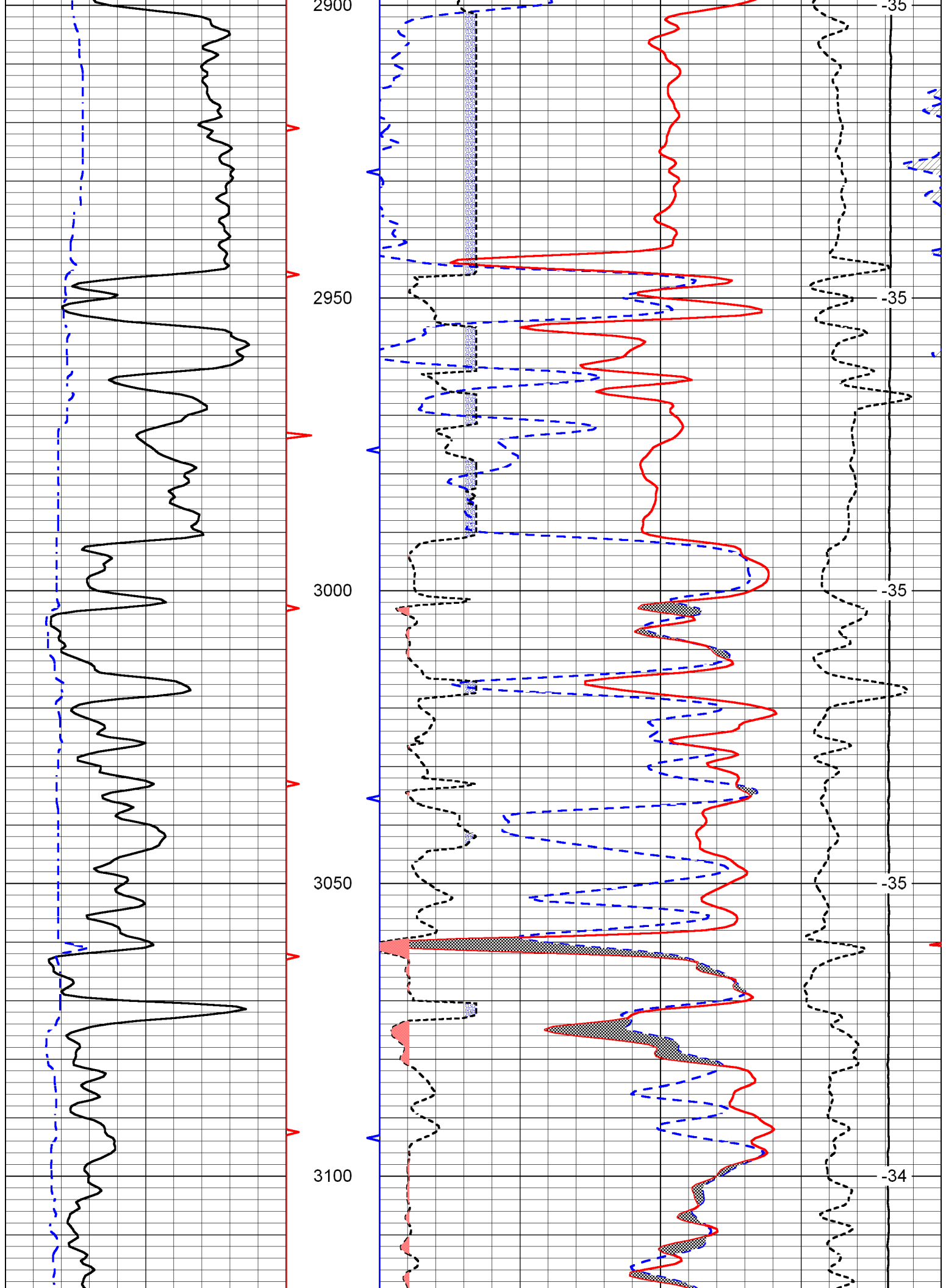


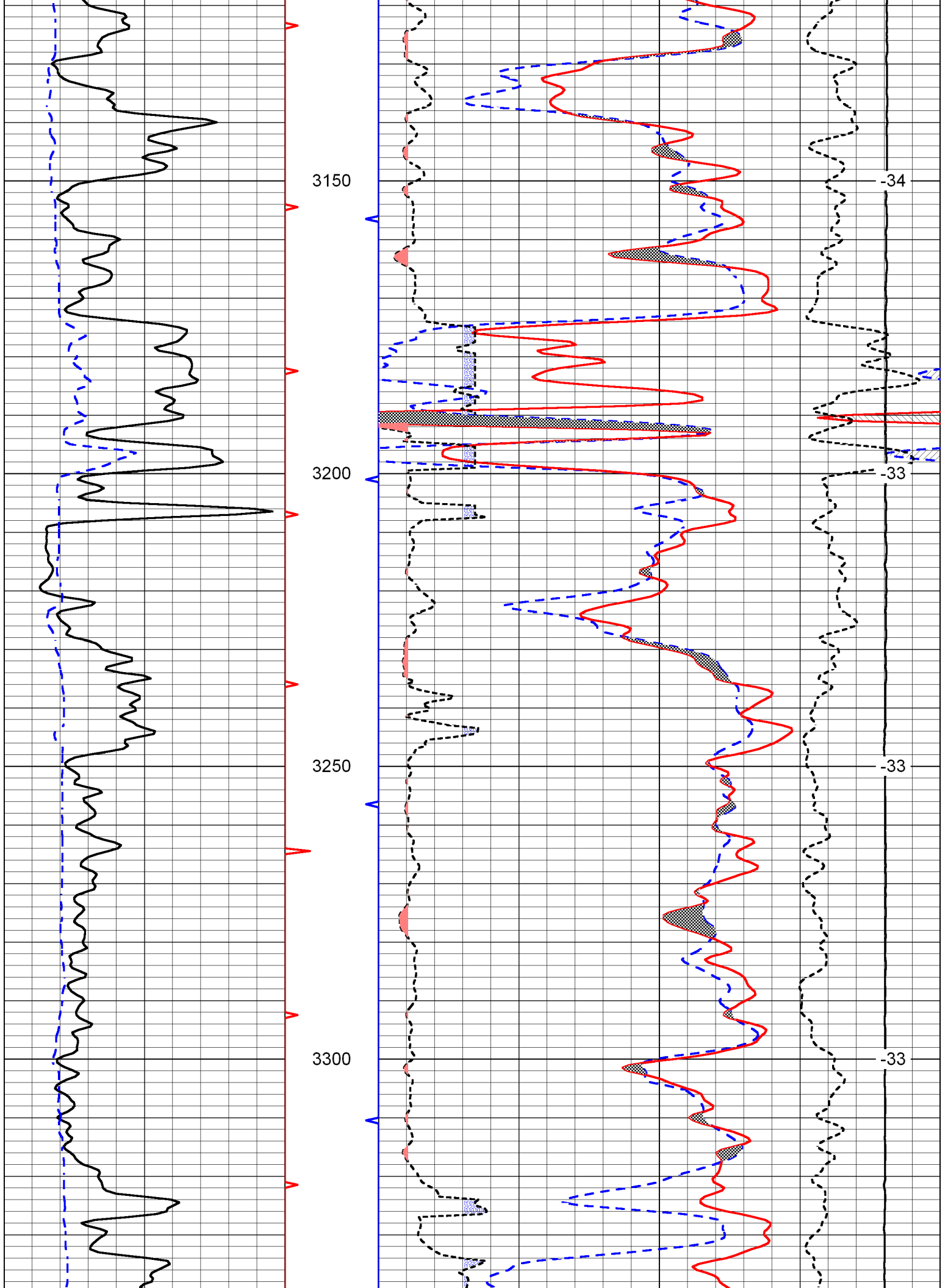


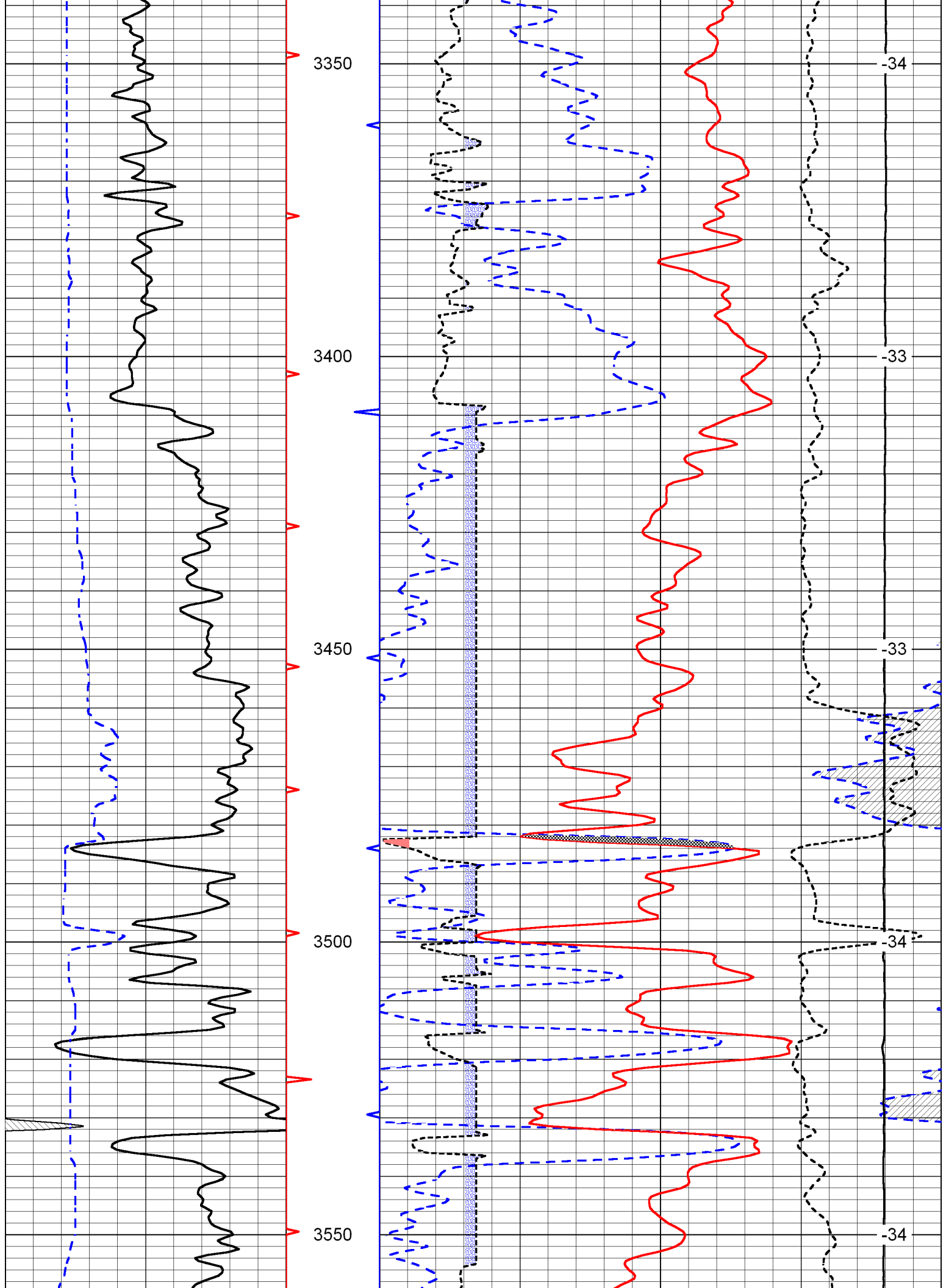


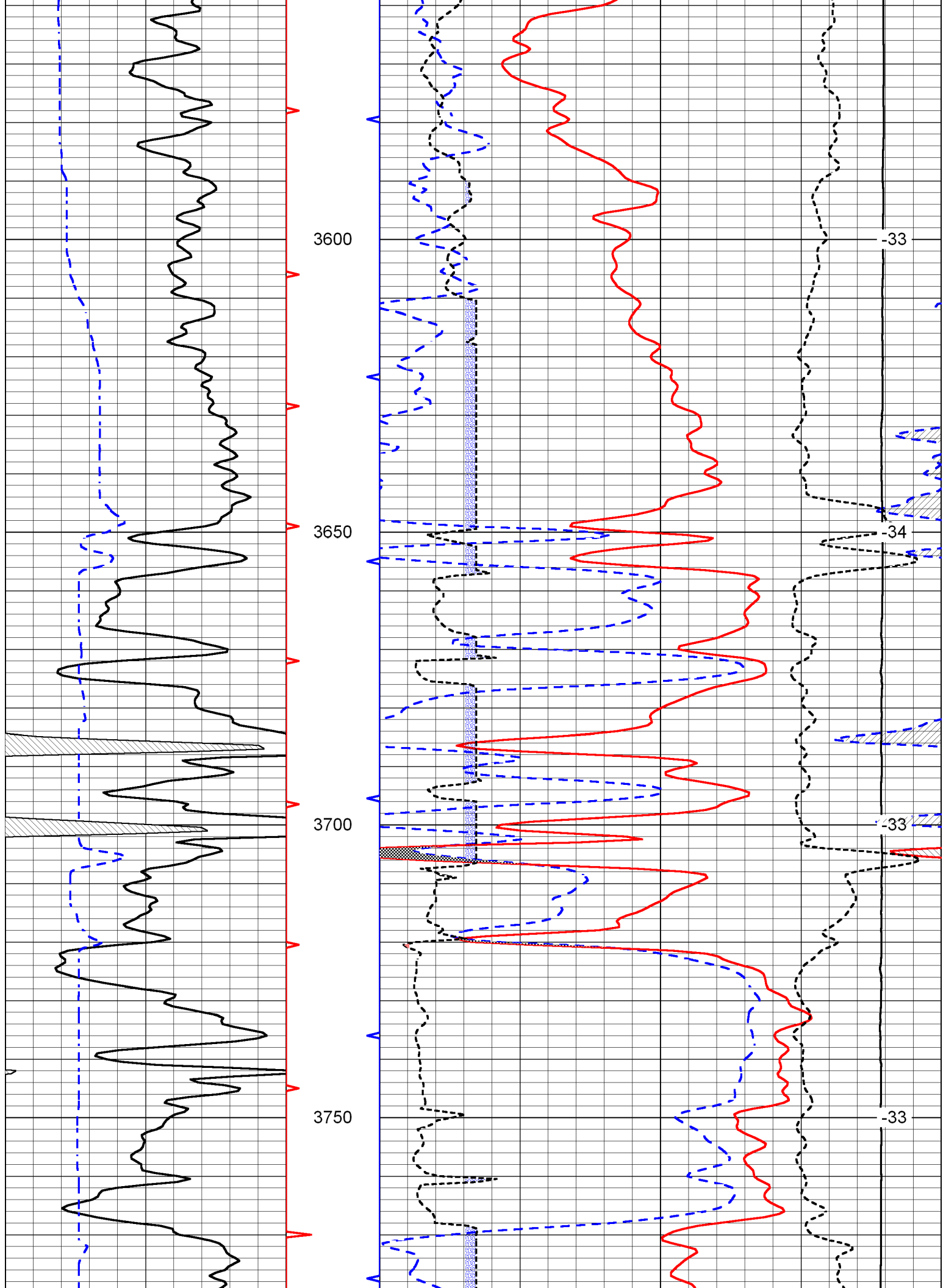


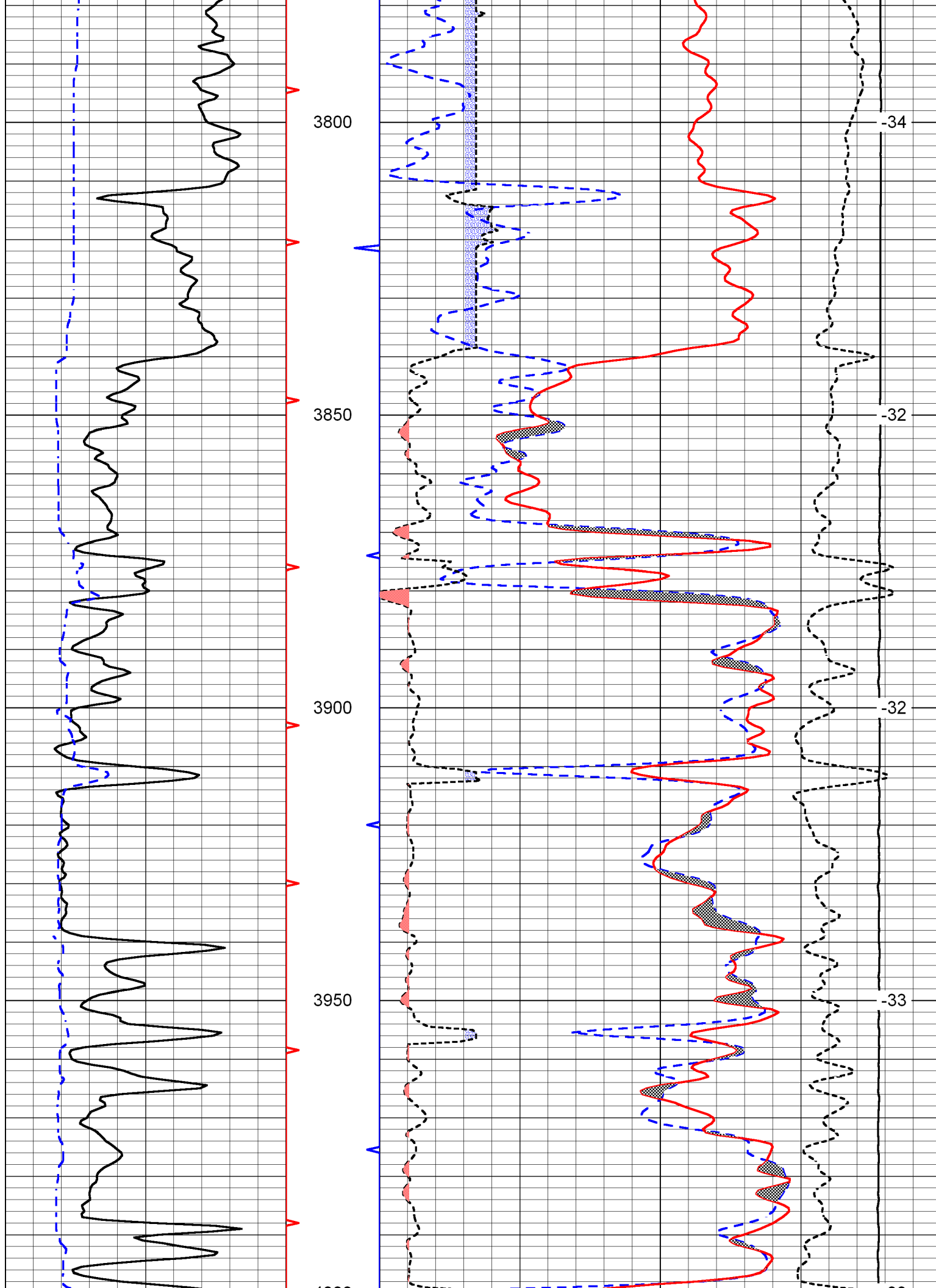


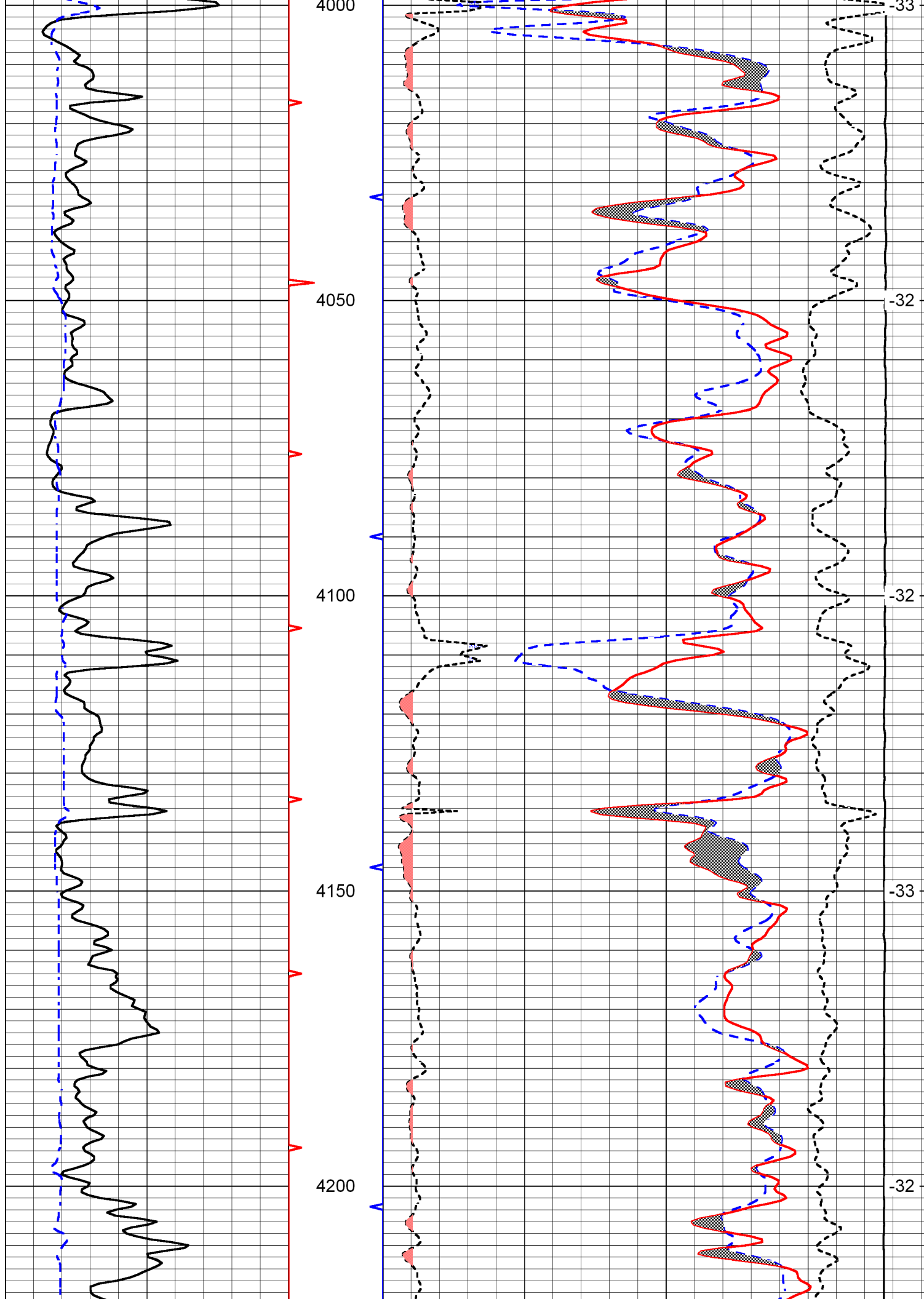


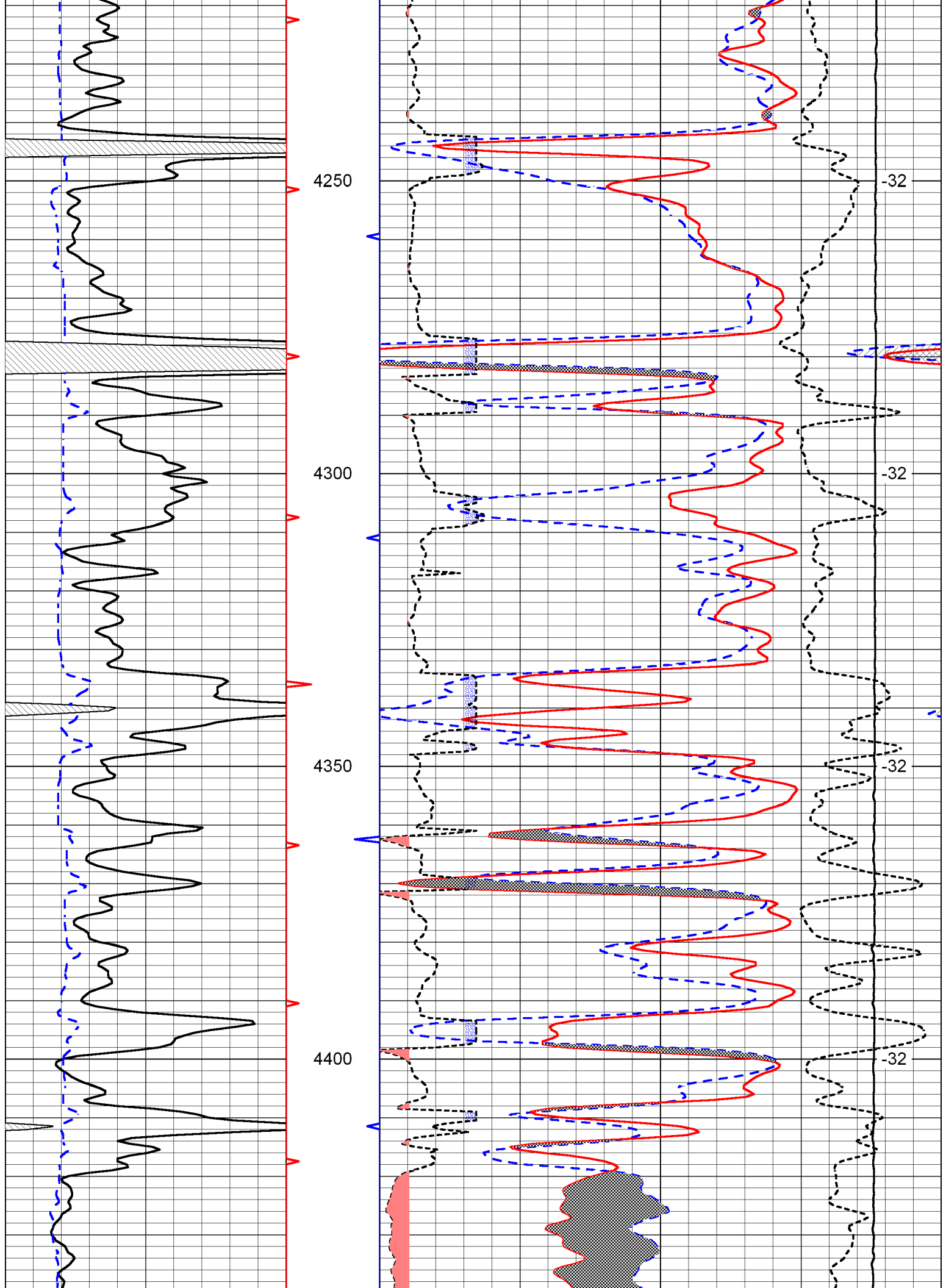


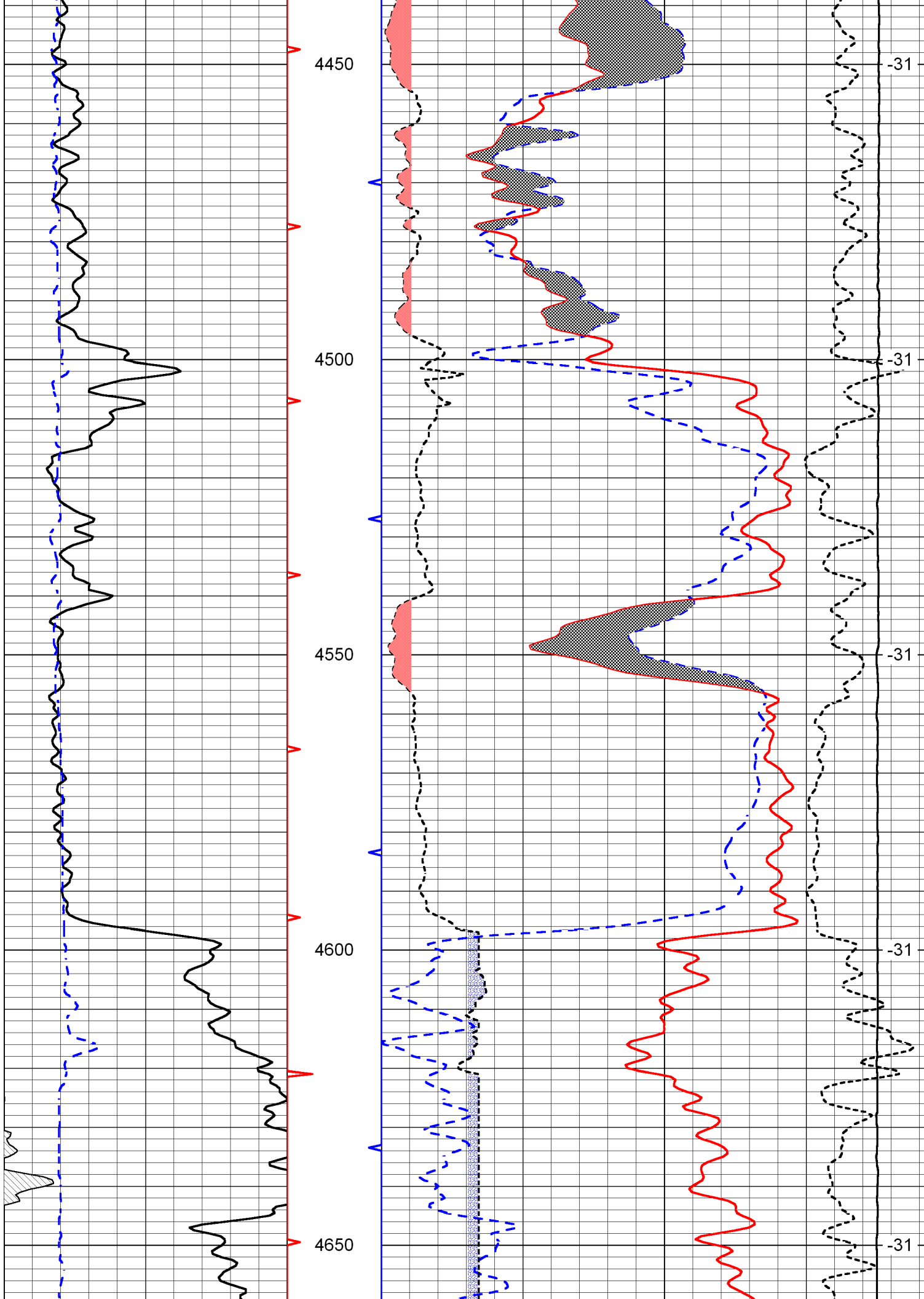


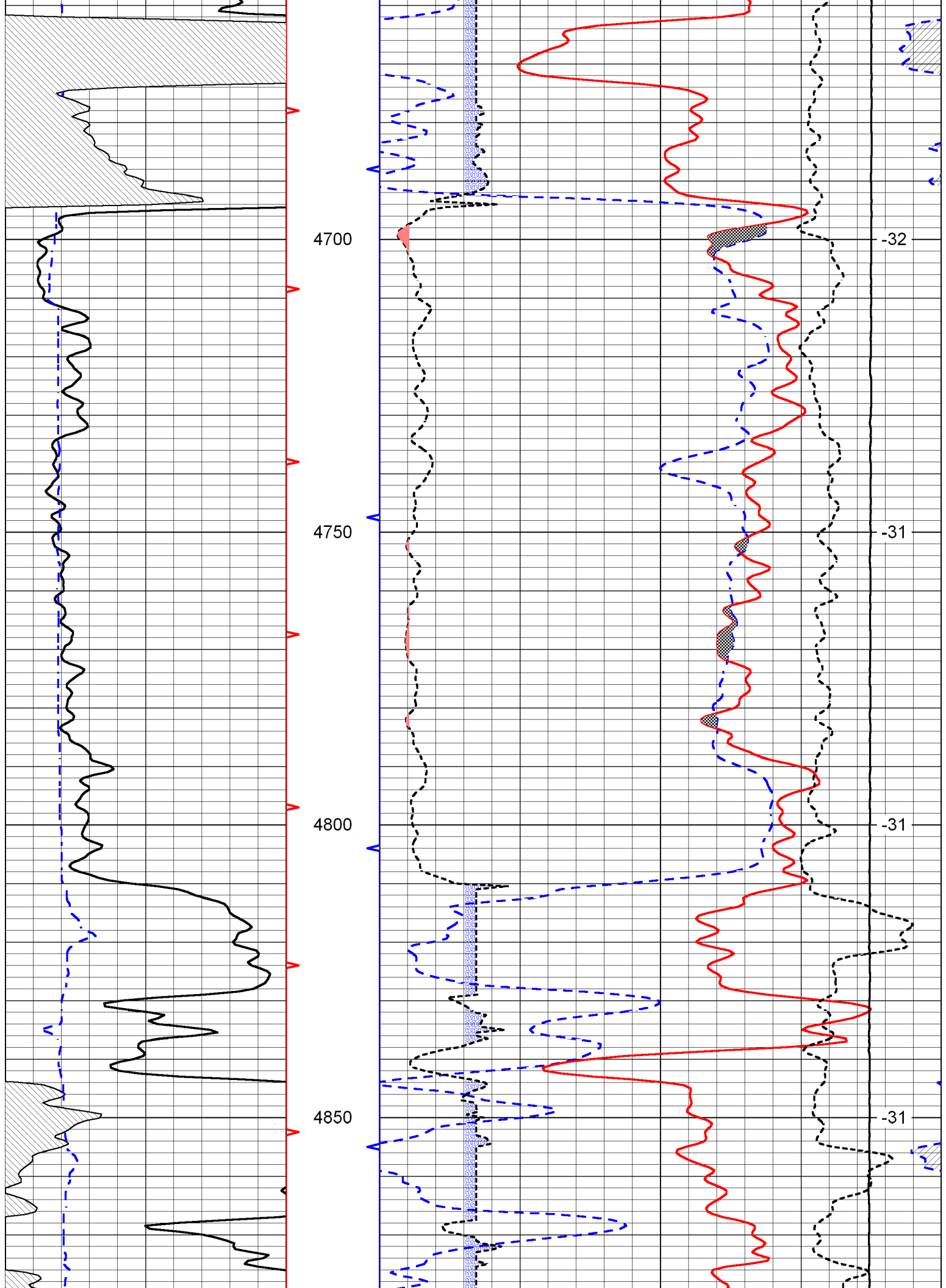


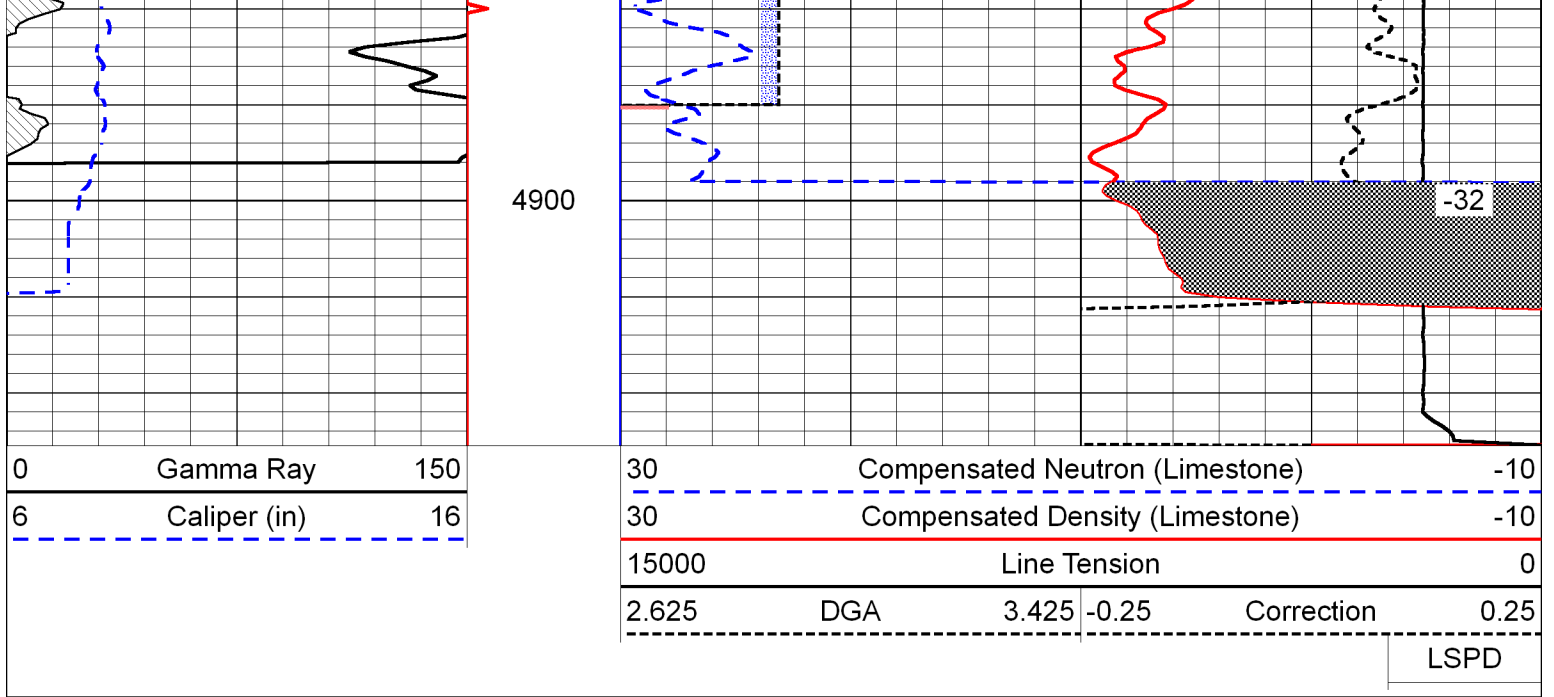














DUAL INDUCTION LOG

Company **ROBERTS RESOURCES**
 Well **ETHERIDGE TRUST #1-16**
 Field **EBY**
 County **BARBER**
 State **KANSAS**

Company **ROBERTS RESOURCES**
 Well **ETHERIDGE TRUST #1-16**
 Field **EBY**
 County **BARBER** State **KANSAS**

Location: **API #: 15-007-24276-00-00**
3010' FSL & 1910' FEL
SEC 16 TWP 32S RGE 12W
 Permanent Datum **GROUND LEVEL** Elevation **1627**
 Log Measured From **KELLY BUSHING**
 Drilling Measured From **KELLY BUSHING**
 Other Services **CNL/CDL ML**
 Elevation **K.B. 1639**
D.F. N/A
G.L. 1627

Date	7/10/2015
Run Number	ONE
Depth Driller	4920'
Depth Logger	4922'
Bottom Logged Interval	4921'
Top Log Interval	250'
Casing Driller	8.625" @ 268'
Casing Logger	268'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5,000
Density / Viscosity	9.1 60
pH / Fluid Loss	11.0 8.8
Source of Sample	Flowline
Rm @ Meas. Temp	.75 @ 78
Rmf @ Meas. Temp	.56 @ 78
Rmc @ Meas. Temp	1.01 @ 78
Source of Rmf / Rmc	Charts
Rm @ BHT	.47 @ 125
Operating Rig Time	4 Hours
Max Rec. Temp. F	125
Equipment Number	108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	KENT ROBERTS
	K. PFANNENSTIEL

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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.

Medicine Lodge Kansas
 West to 281 Junction, 1/2 West to Woodward Rd,
 Go south and road turns into Red Rock Rd, Follow West to Tank Battery
 West Into

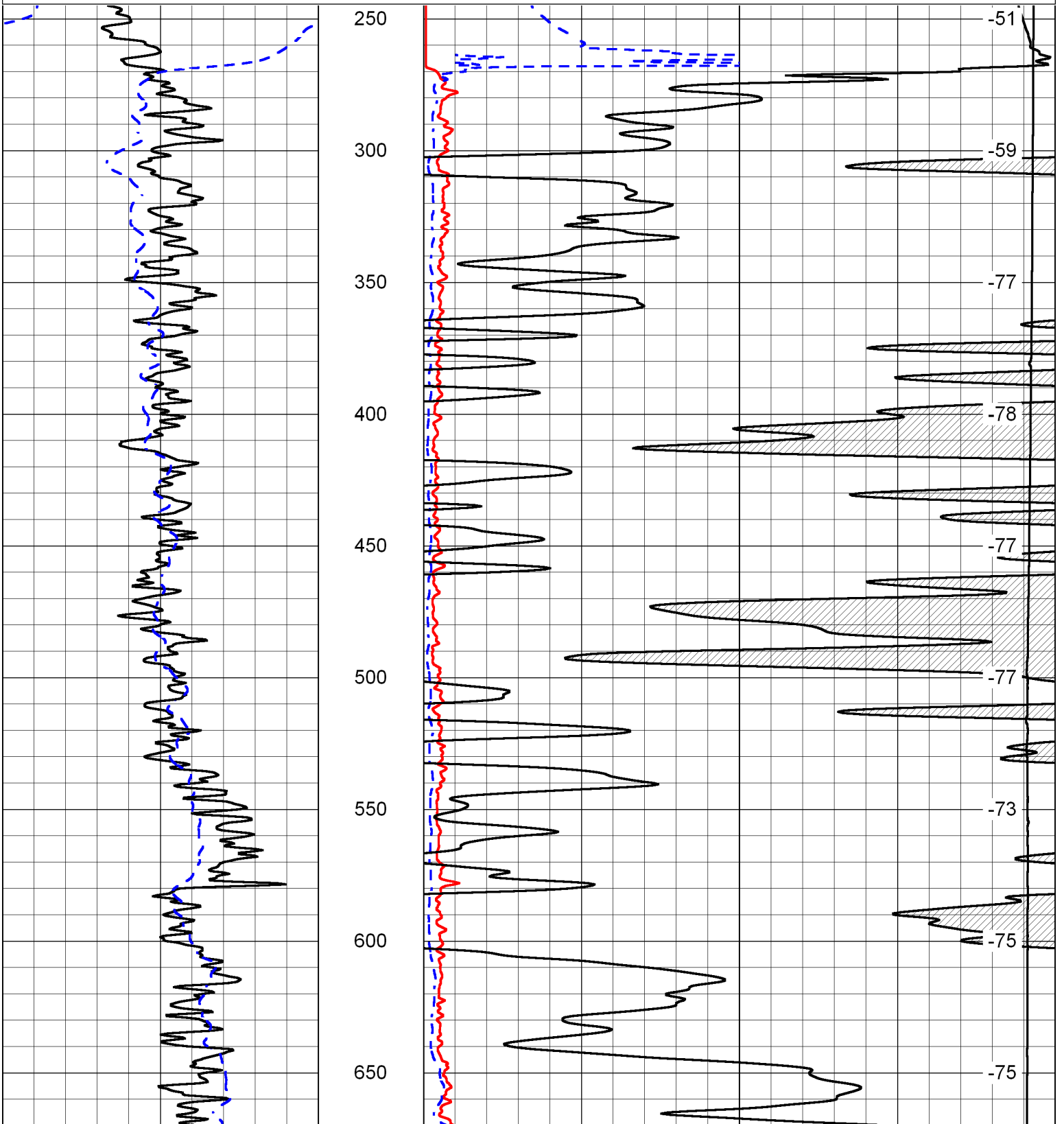
Log Measured From: **KELLY BUSHING** 12' Ft. Above Permanent Datum

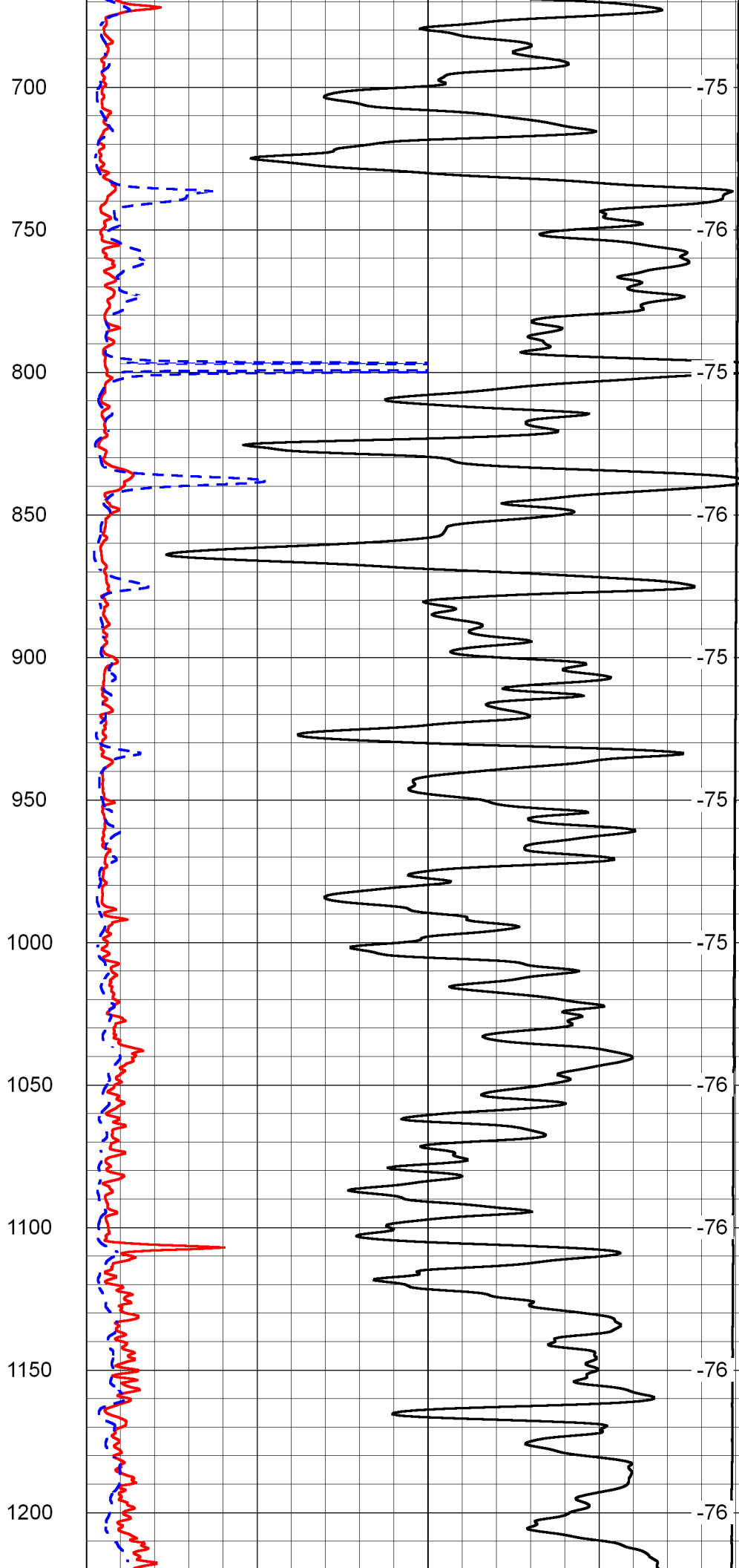
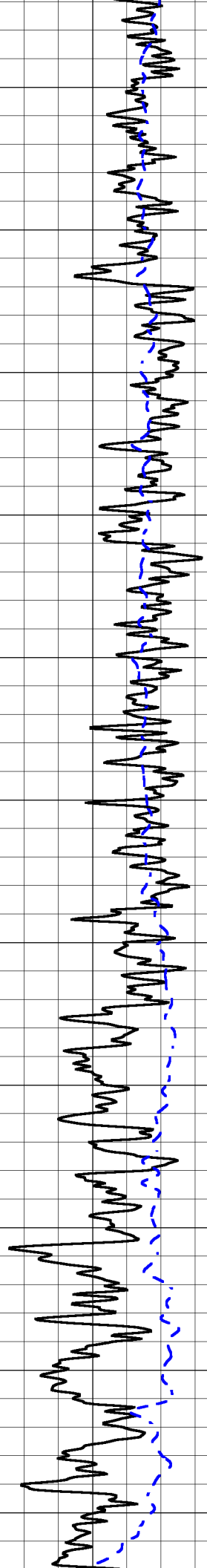
THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

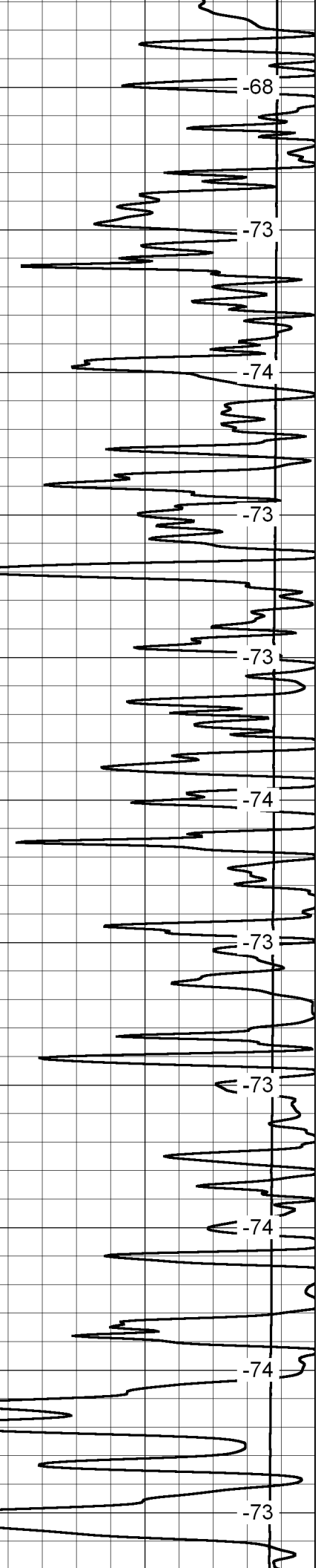
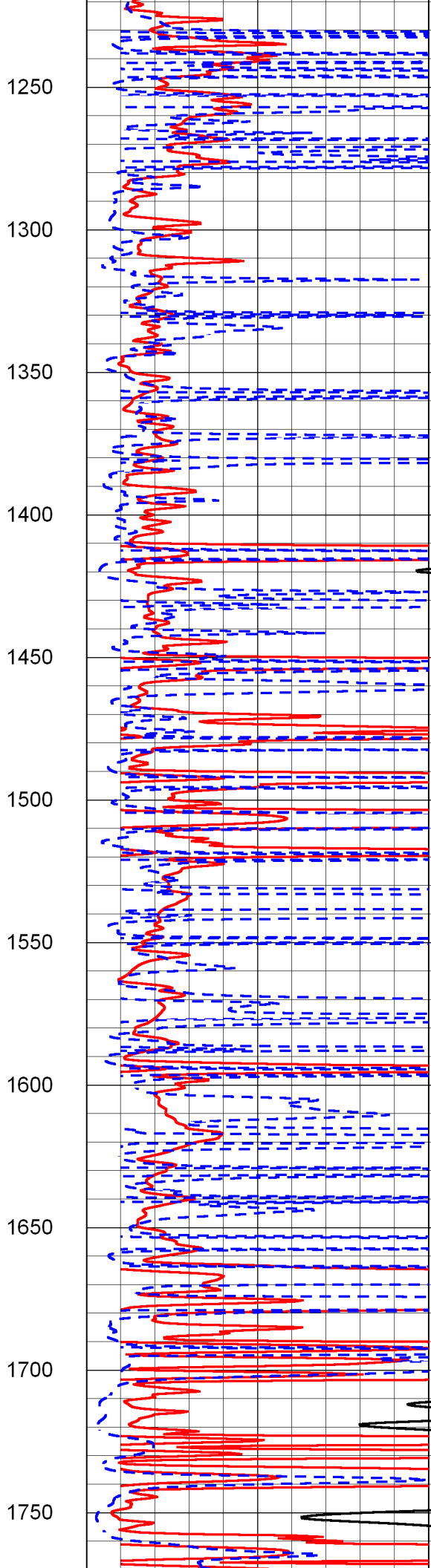
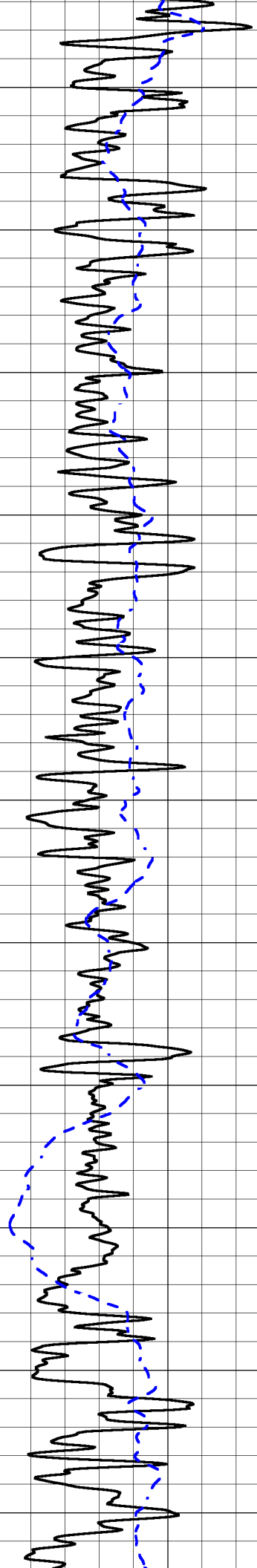
Your Pioneer Energy Services Crew Engineer: J. HENRICKSON Operator: K. PFANNENSTIEL Operator: Operator:	This Log Record Was Witnessed By Primary Witness: KENT ROBERTS Secondary Witness: Secondary Witness: Secondary Witness:
--	--

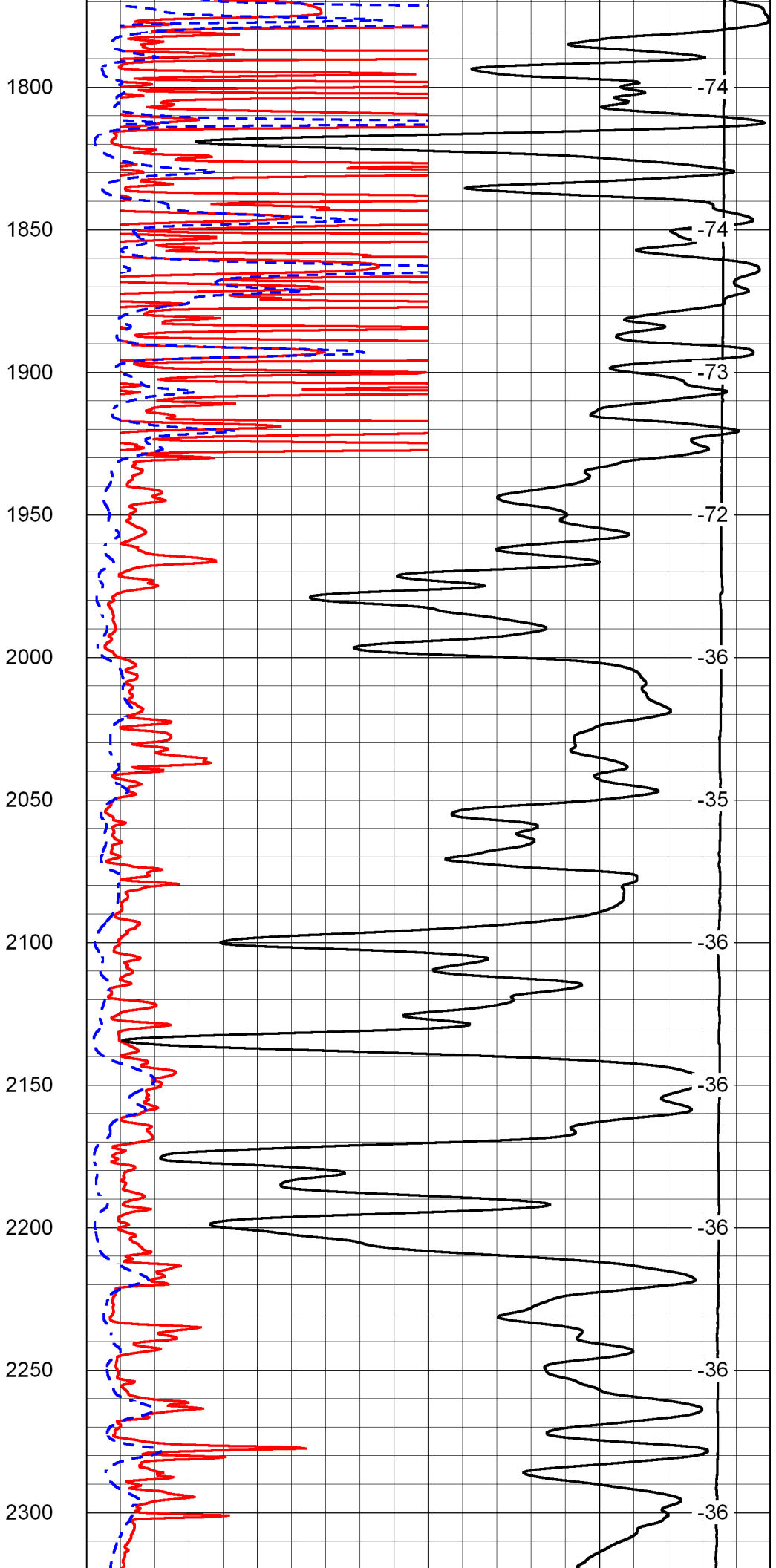
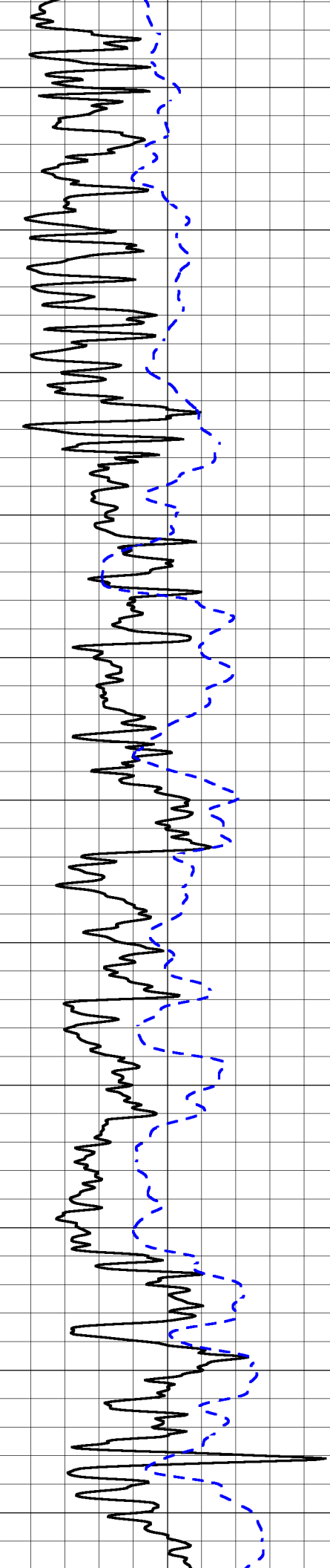
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 Presentation Format dil2in
 Dataset Creation Sat Jul 11 00:32:56 2015
 Charted by Depth in Feet scaled 1:600

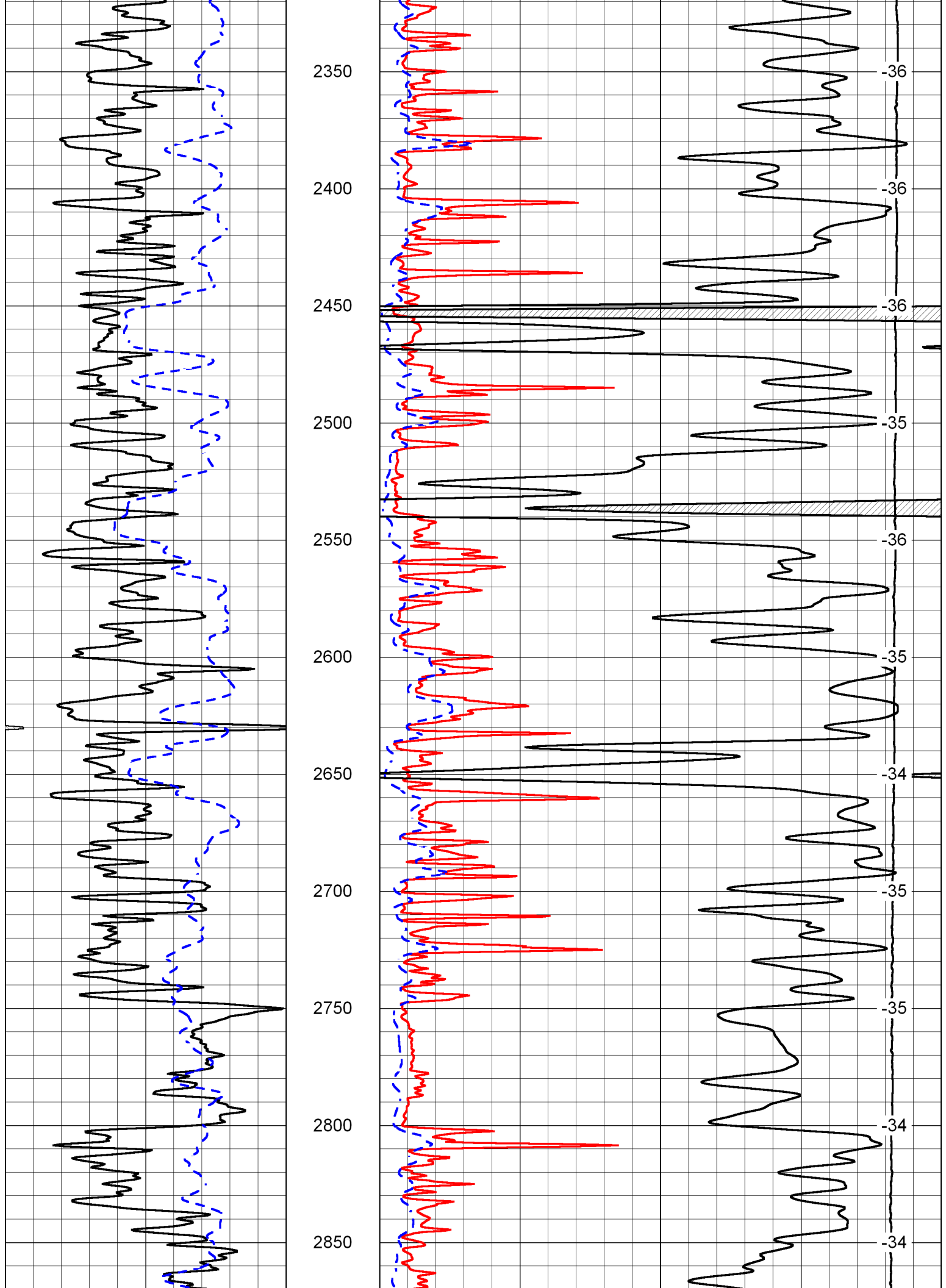
0	Gamma Ray	150	1000	Conductivity	0
-200	SP (mV)	0	15000	Line Tension	0
			0	Shallow Resistivity	50
			0	Deep Resistivity	50
			50	Shallow Resistivity	500
			50	Deep Resistivity	500





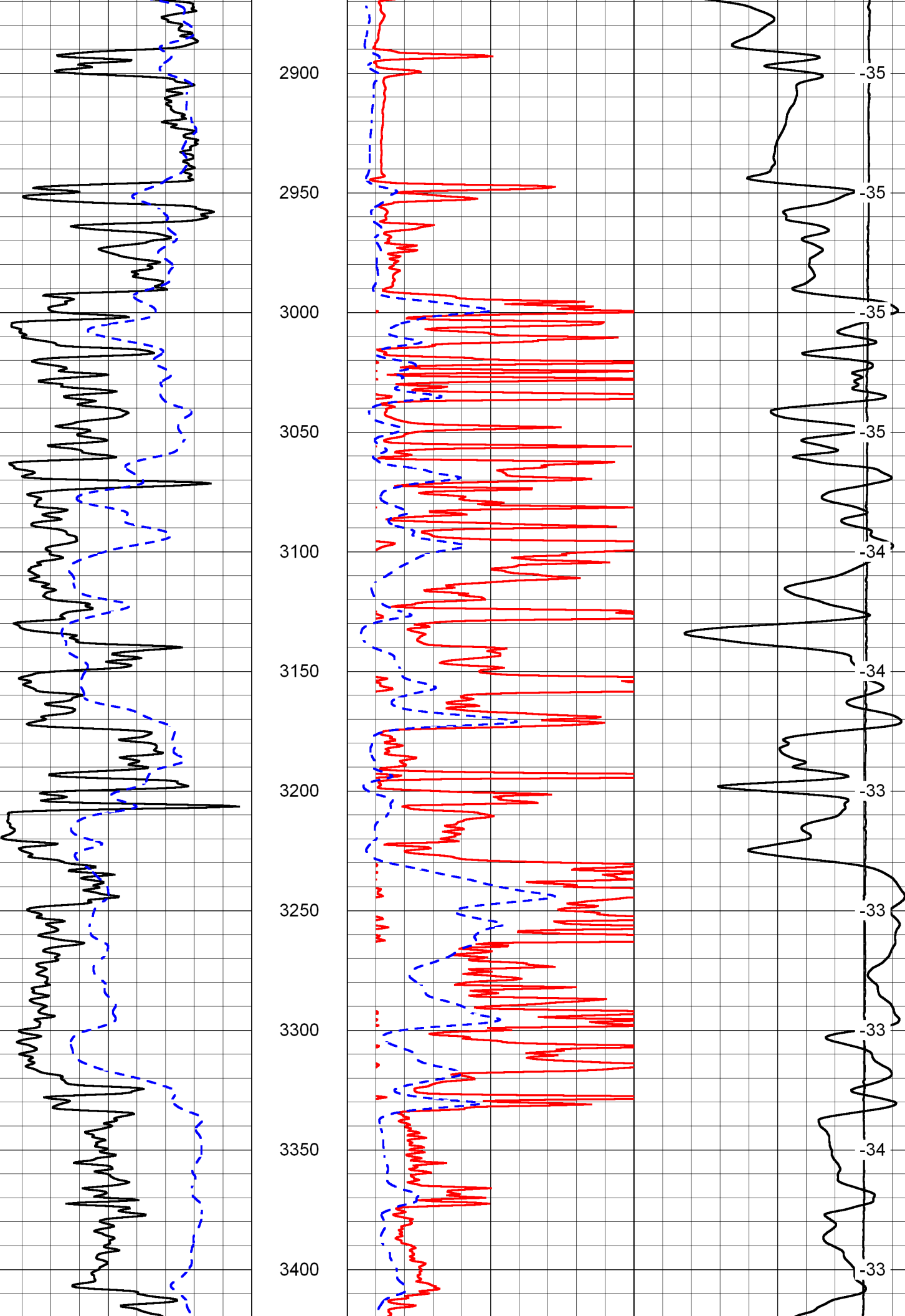


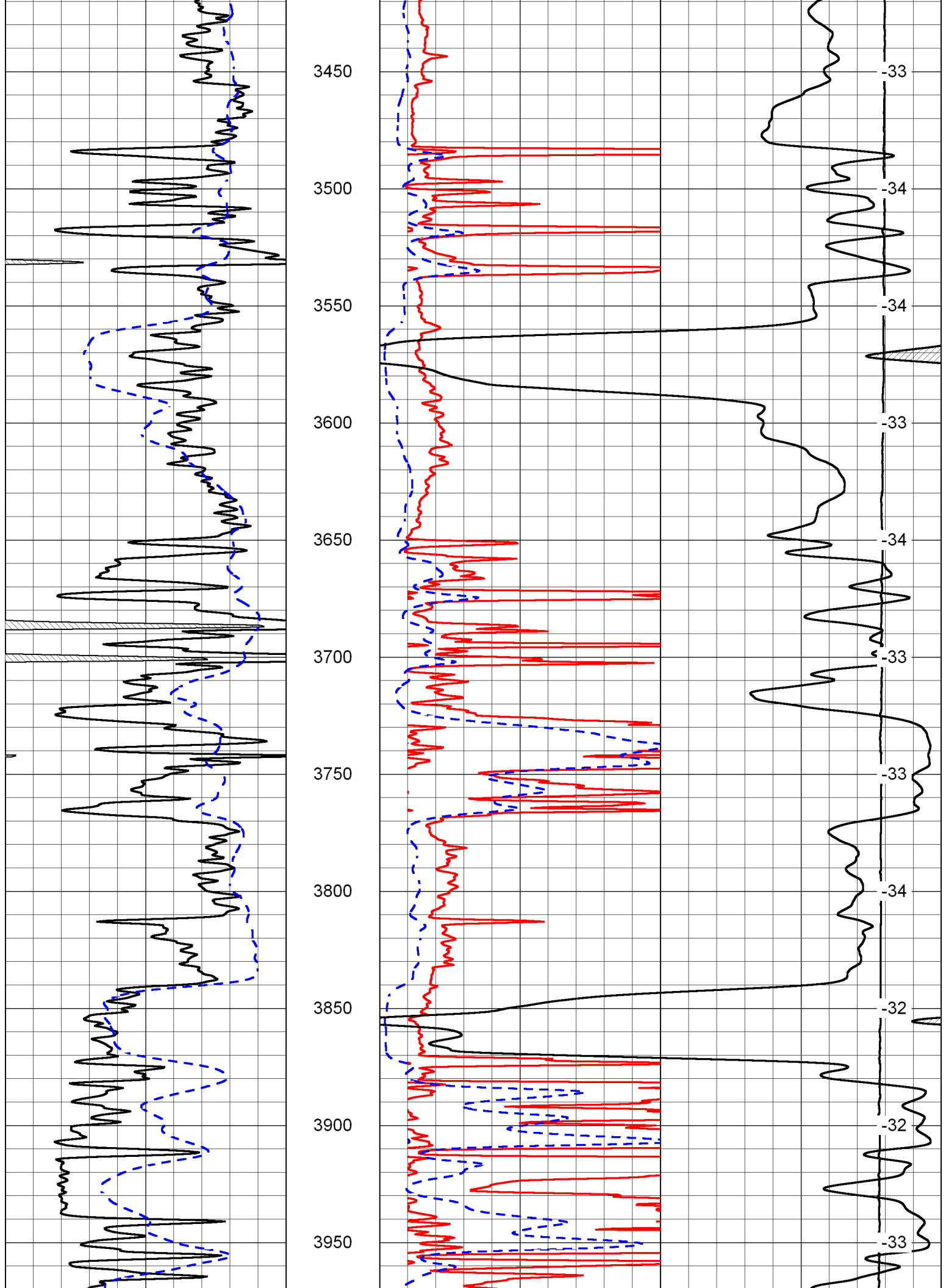


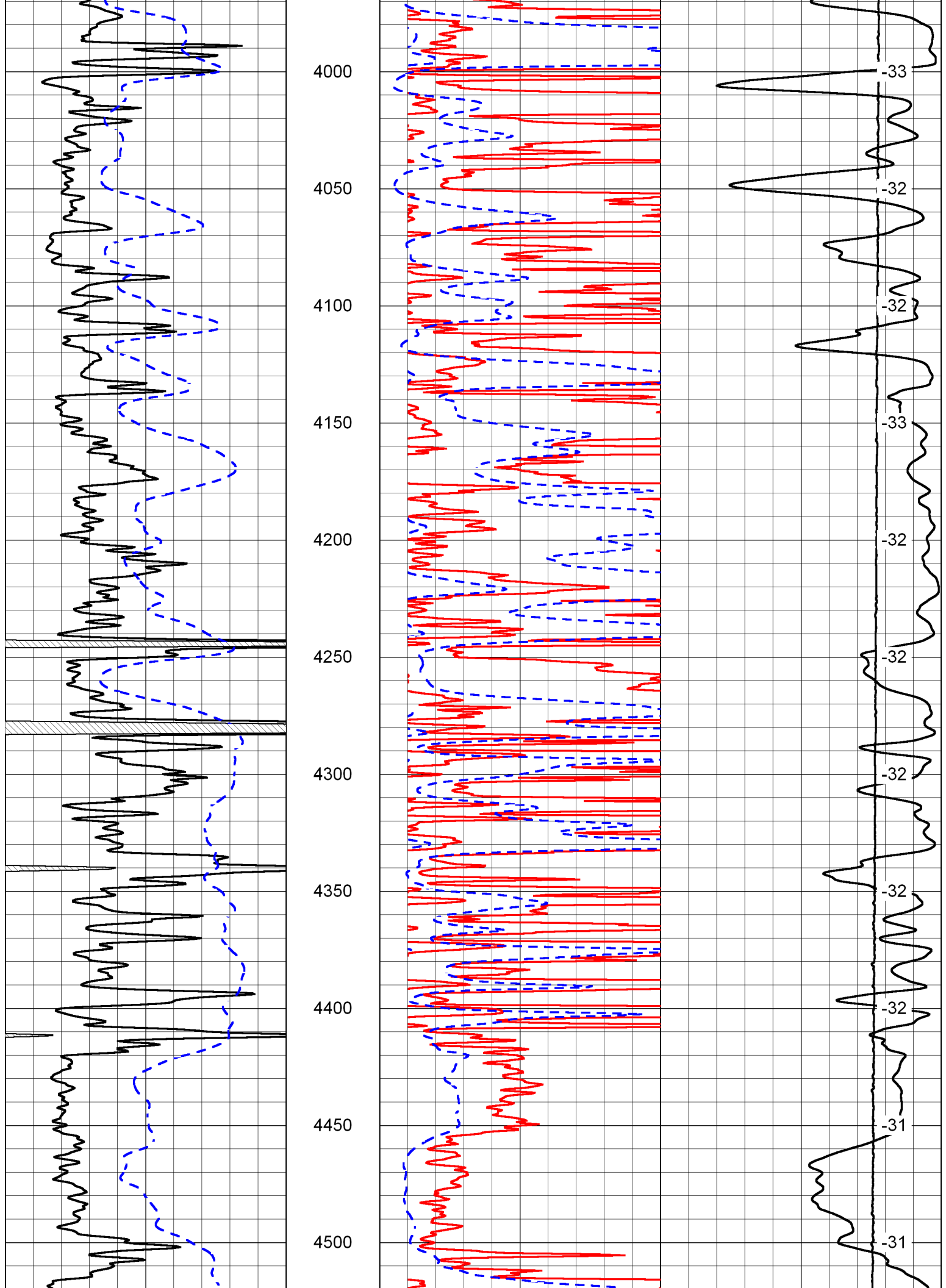


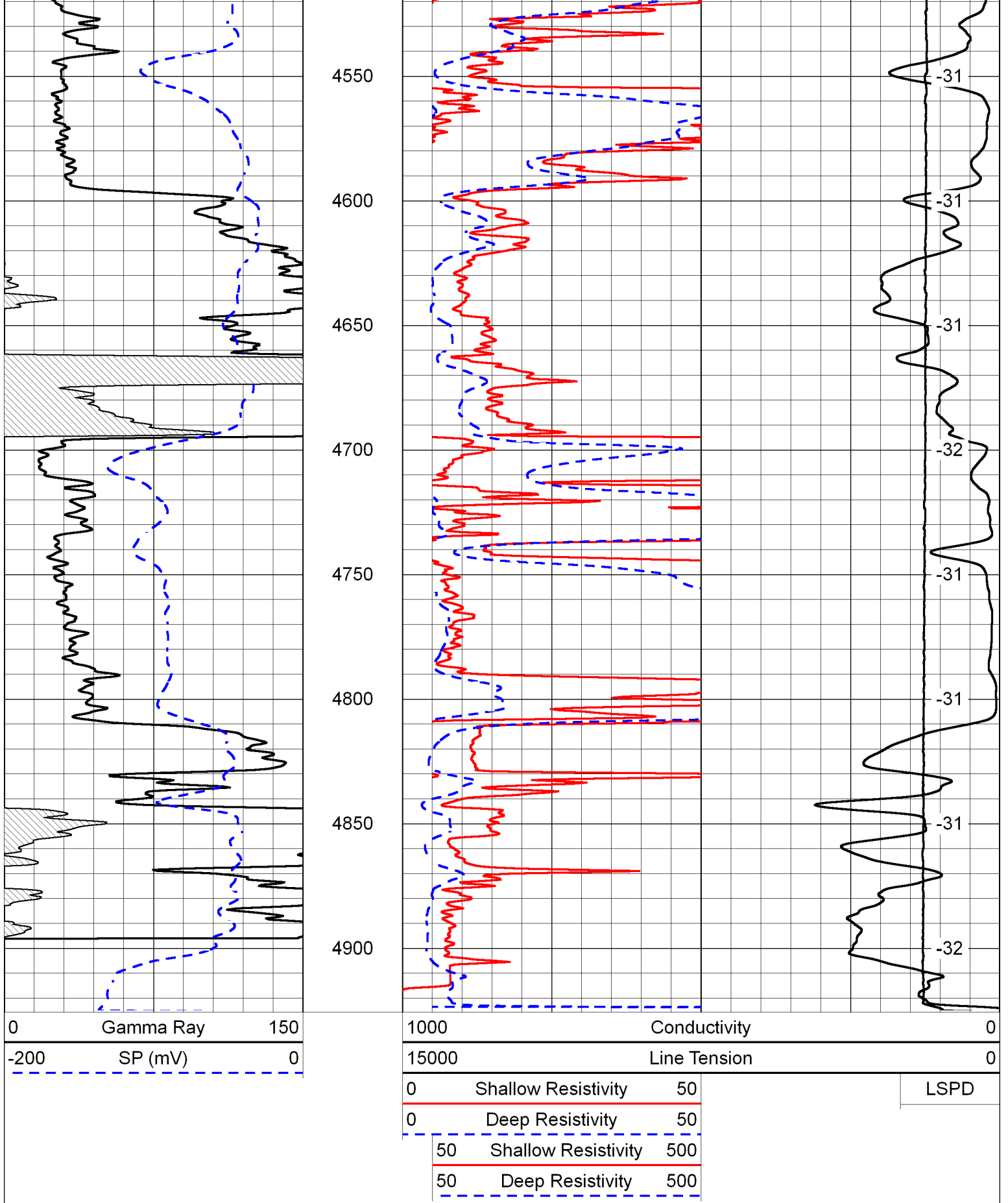
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400

-35
-35
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-34
-33







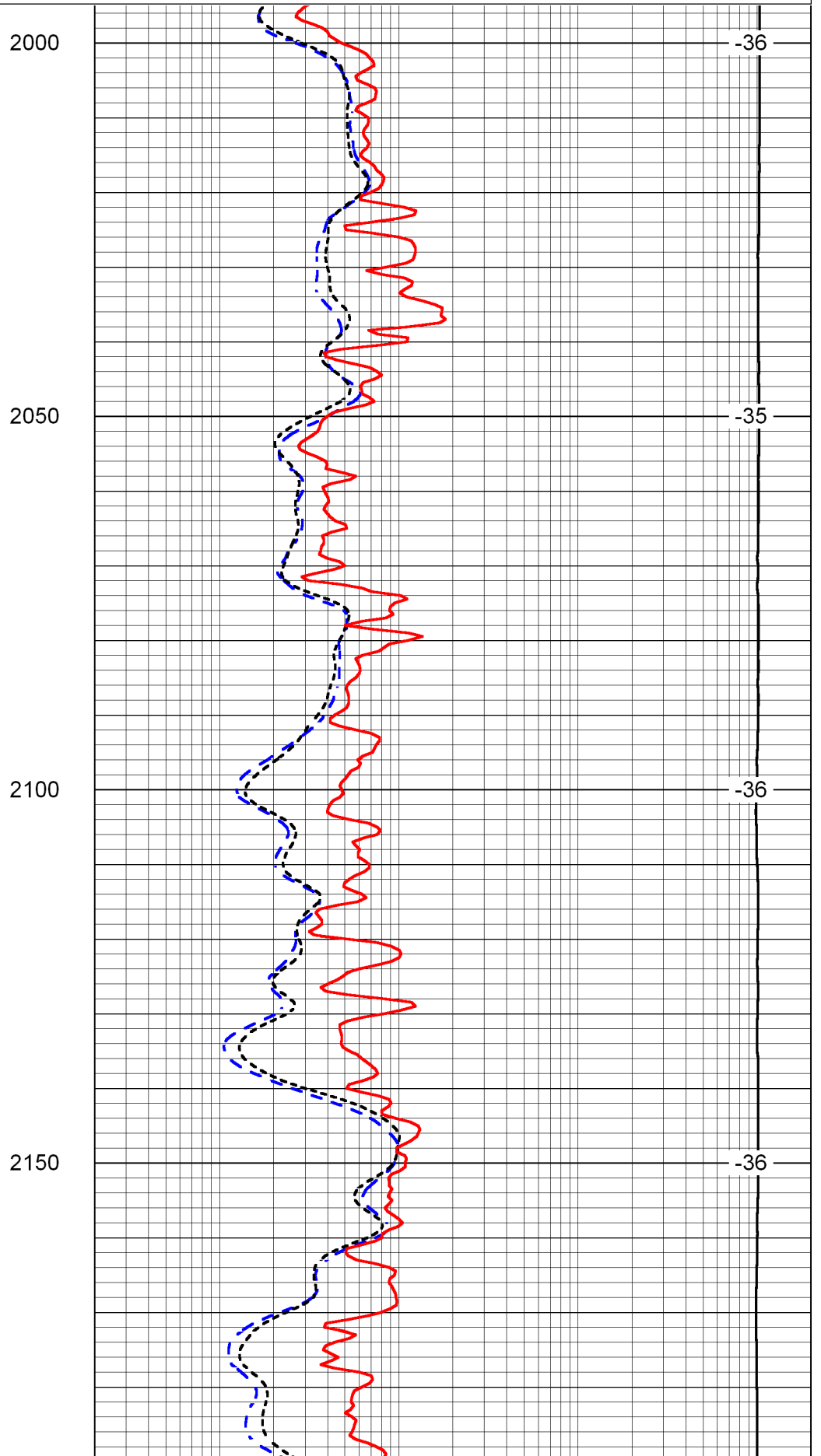
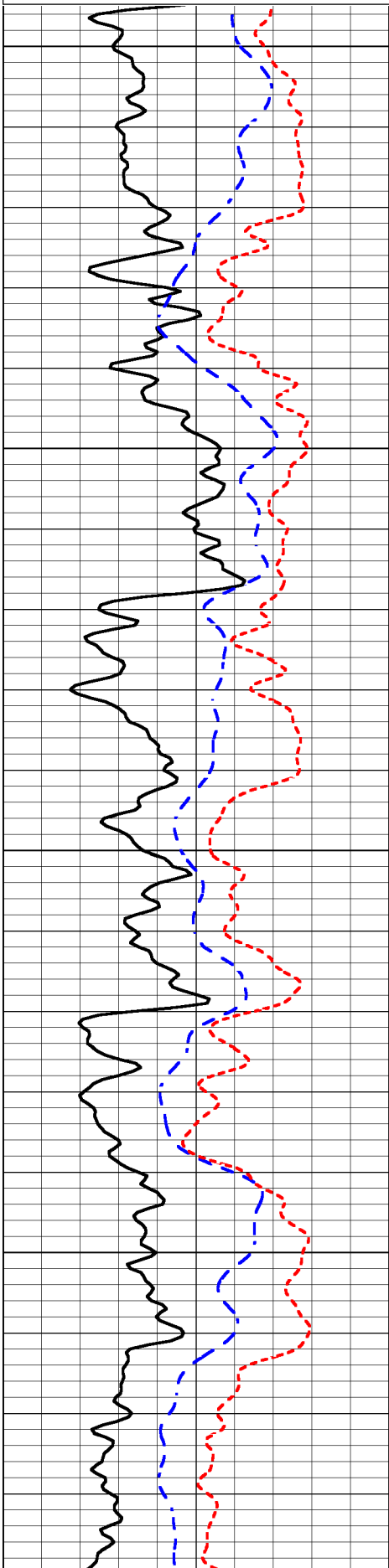


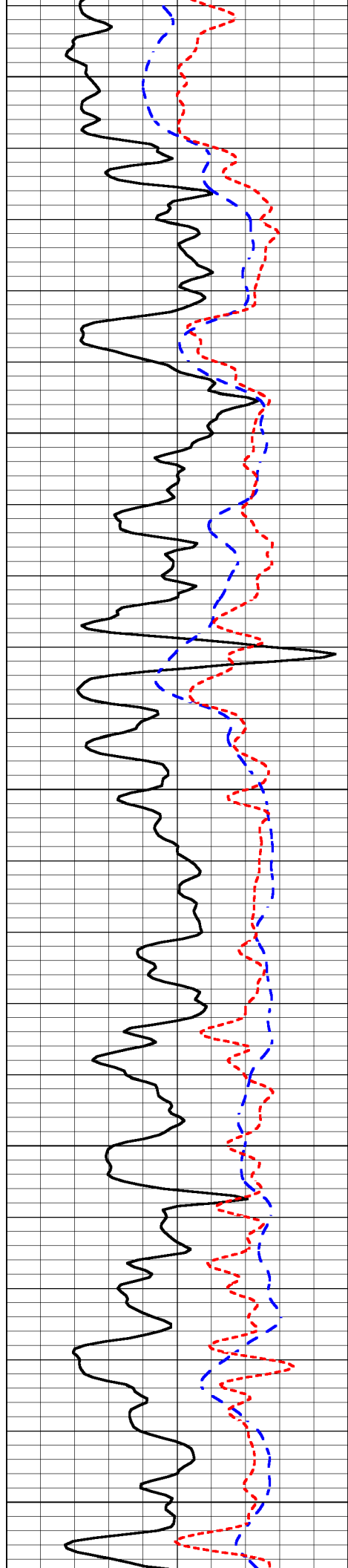
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 Dataset Pathname DIL/robstk
 Presentation Format dil
 Dataset Creation Sat Jul 11 00:32:56 2015
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD





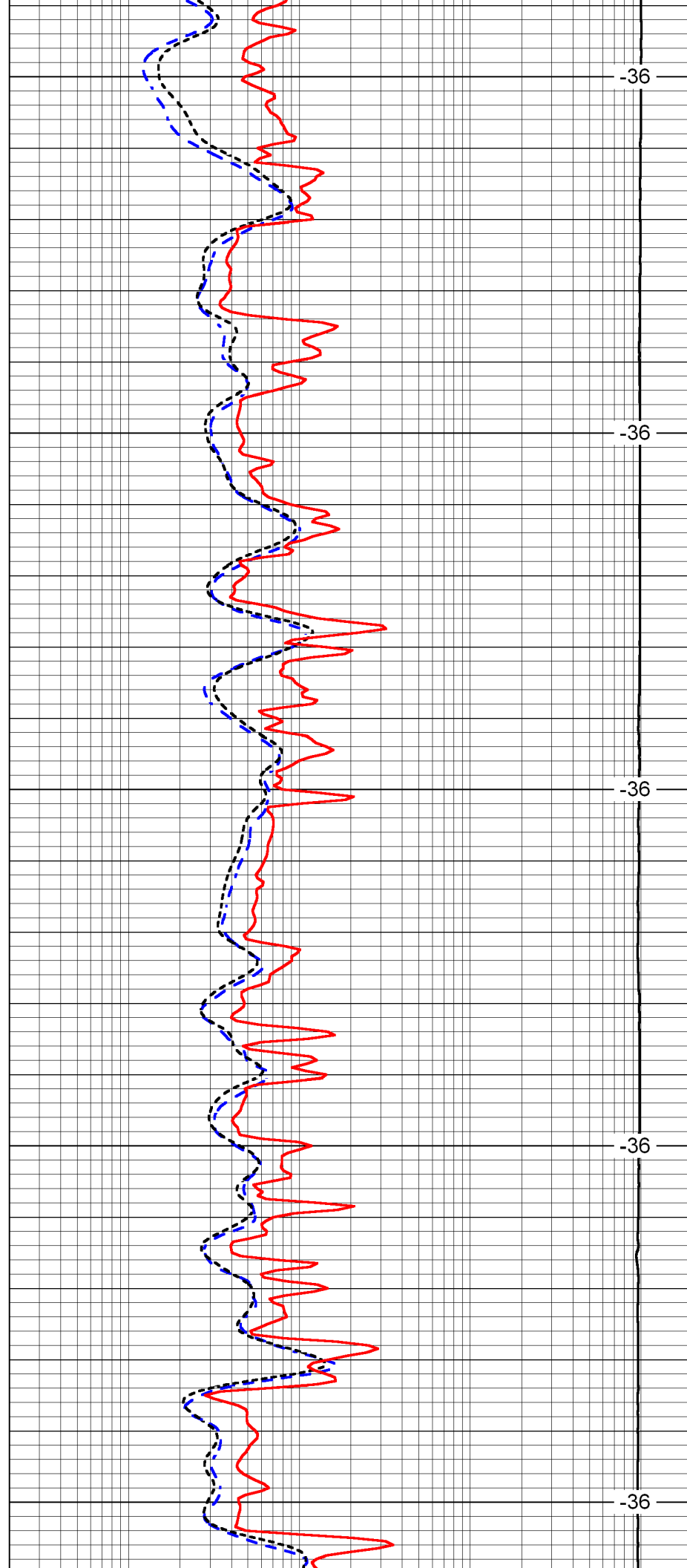
2200

2250

2300

2350

2400



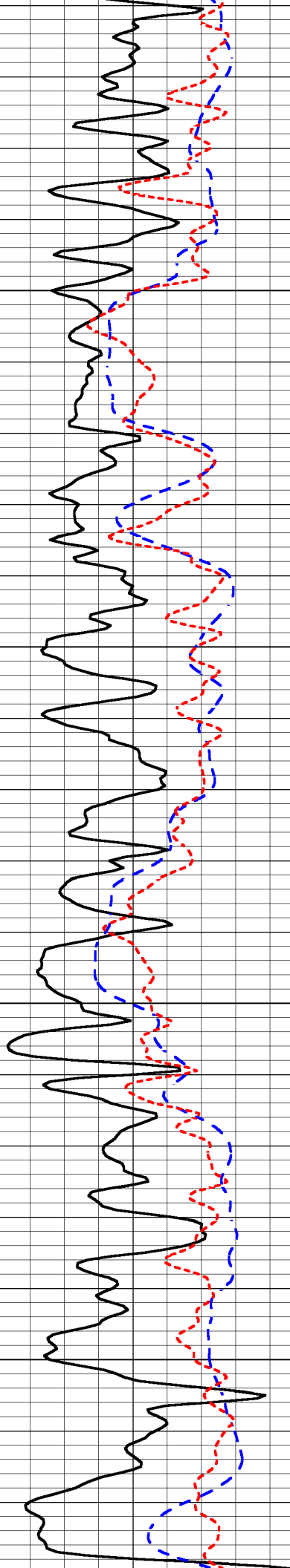
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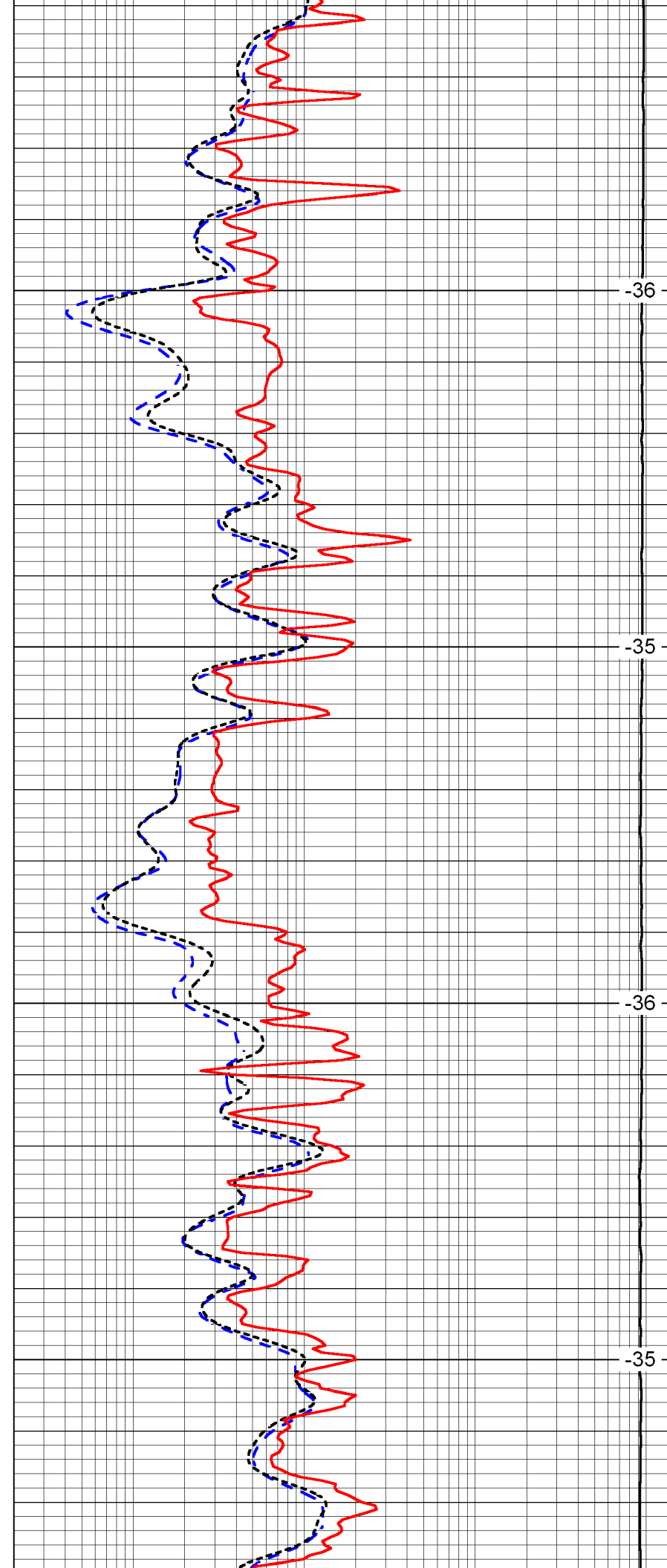


2450

2500

2550

2600

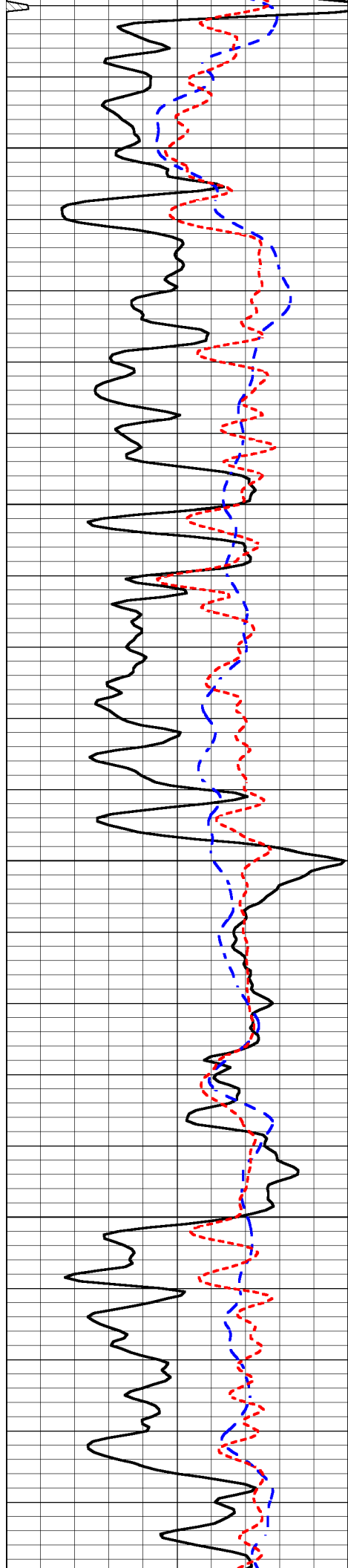


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-36

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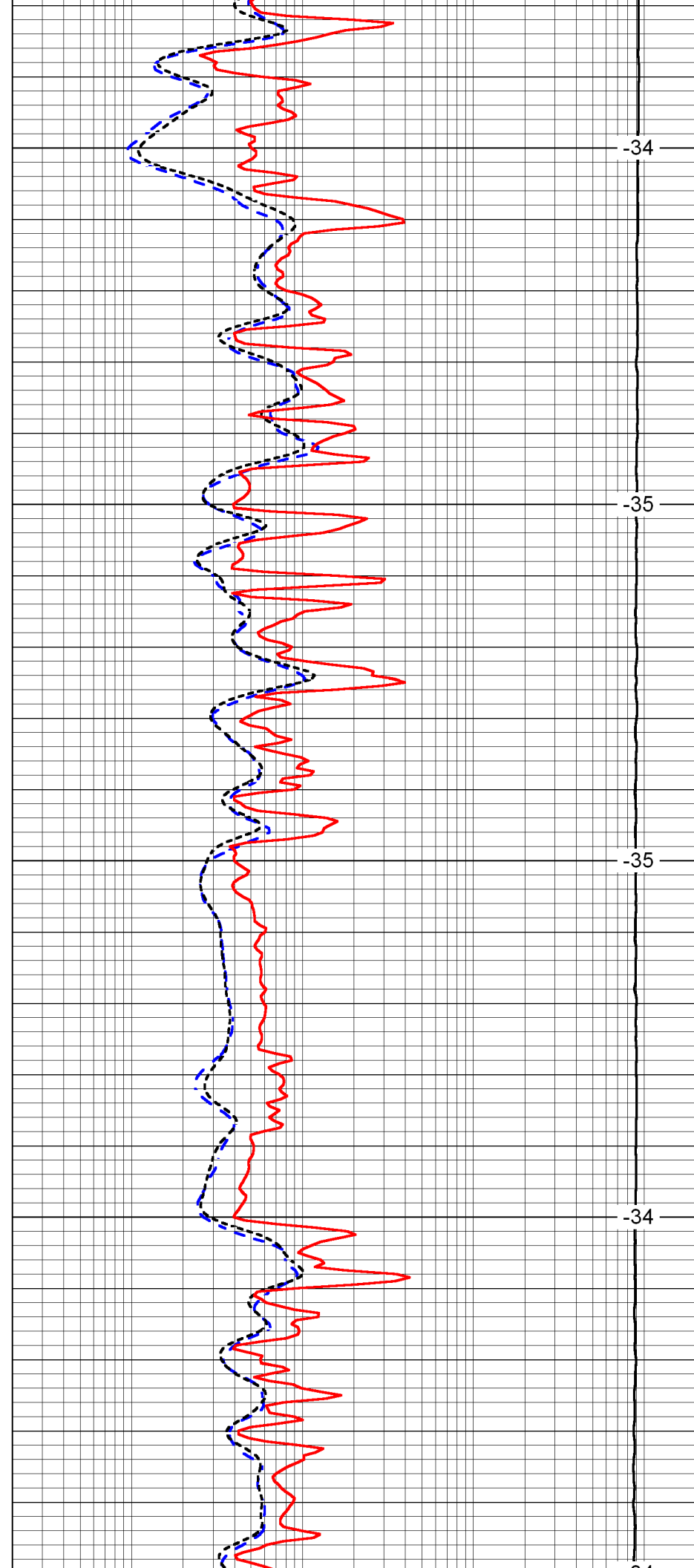
2650

2700

2750

2800

2850



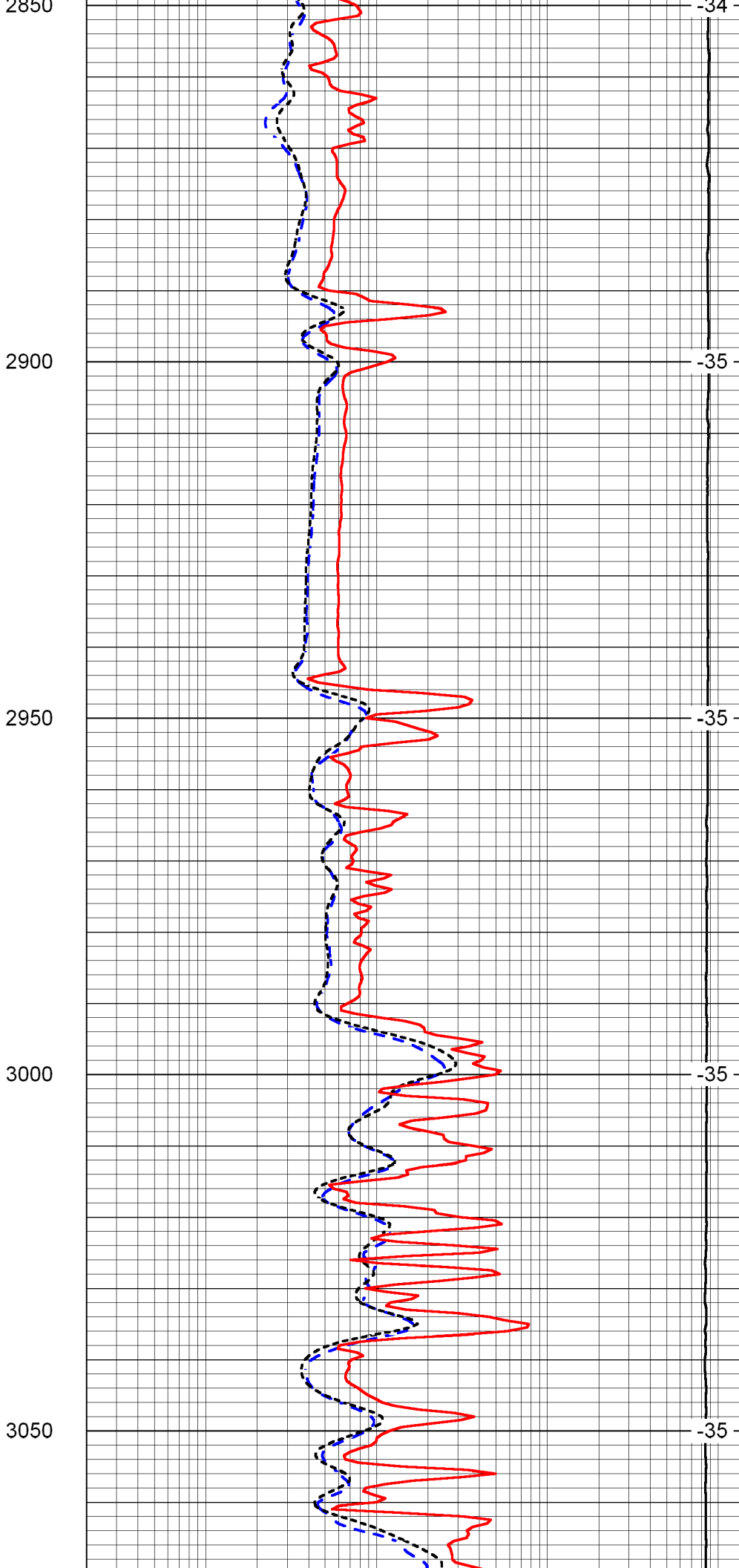
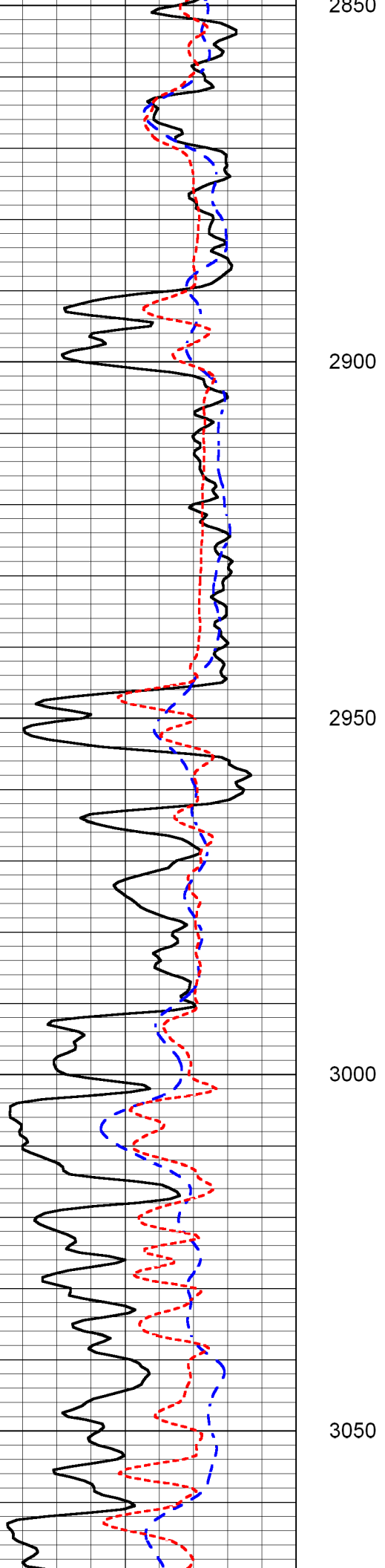
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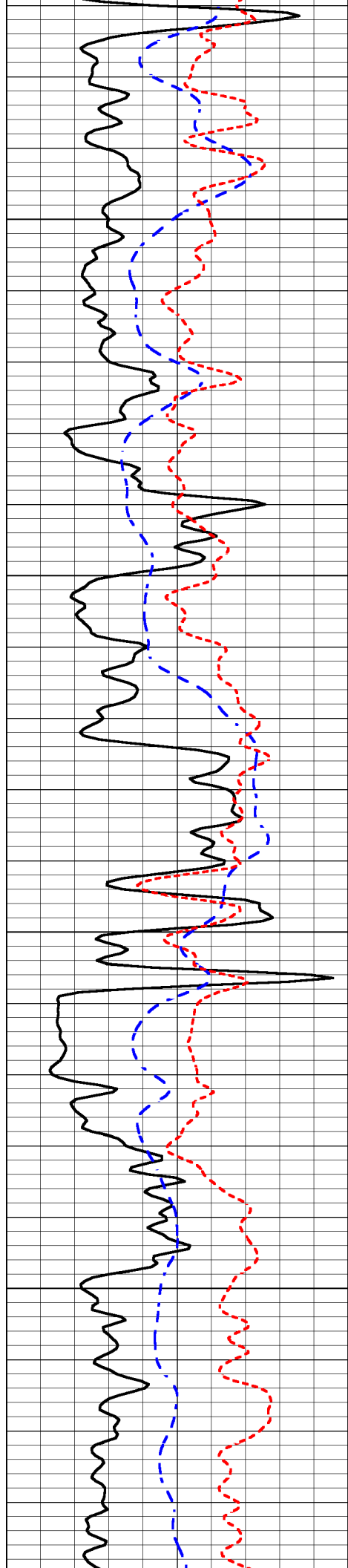
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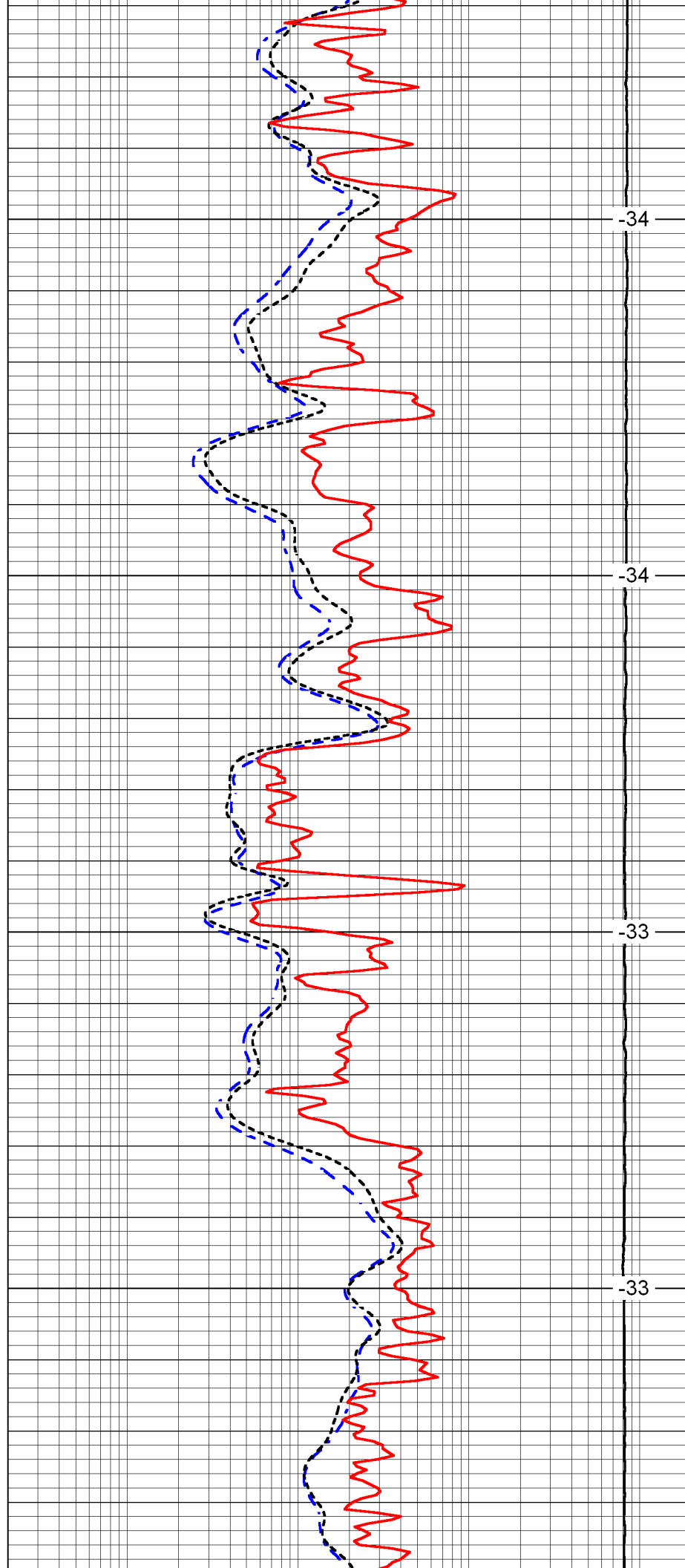


3100

3150

3200

3250

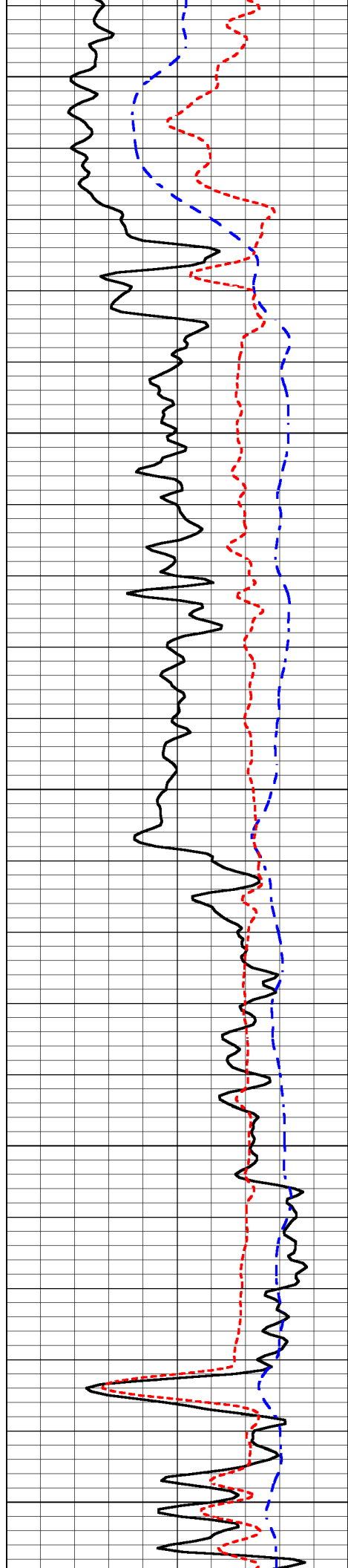


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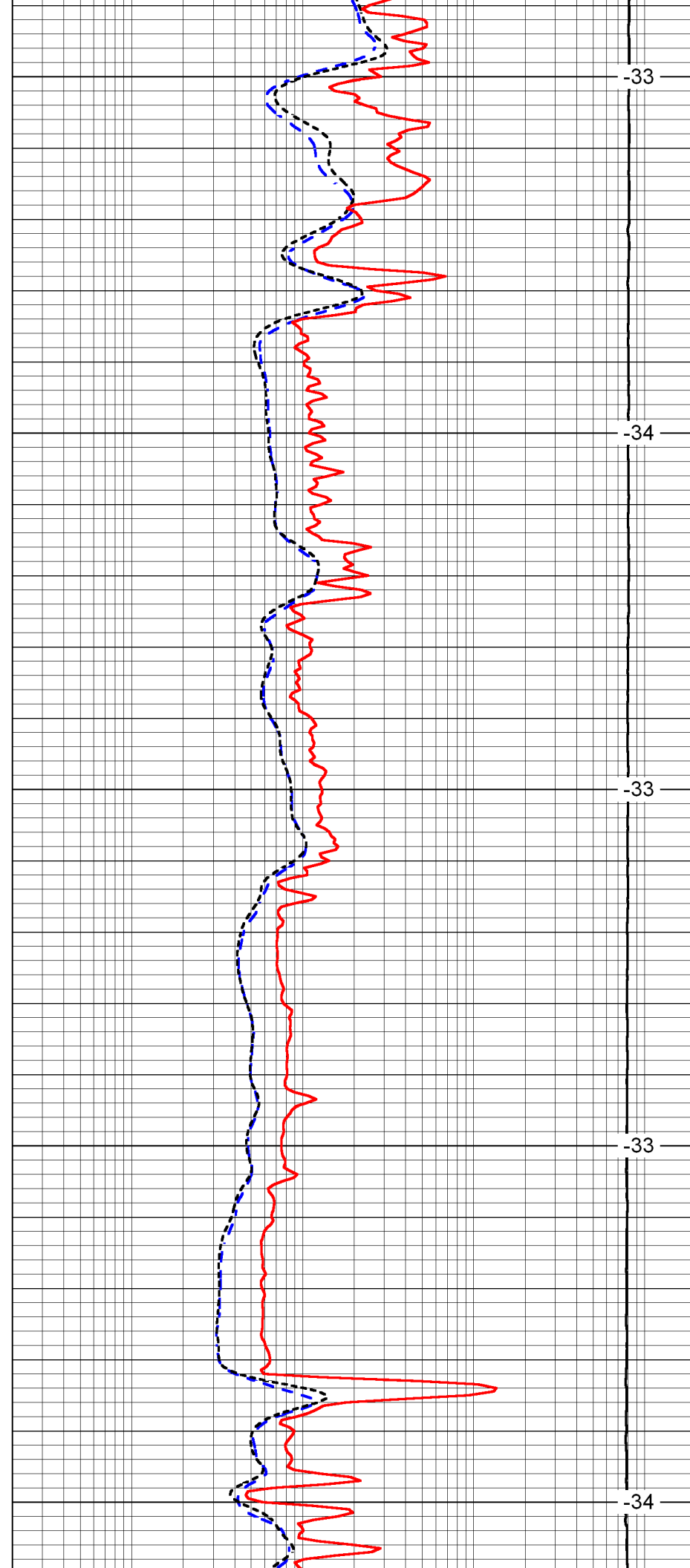
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3400

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3500



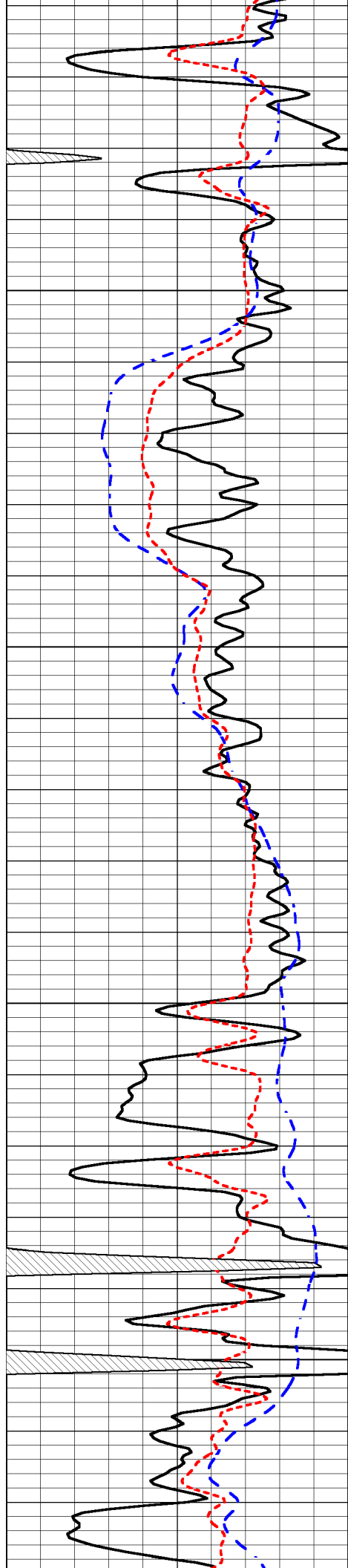
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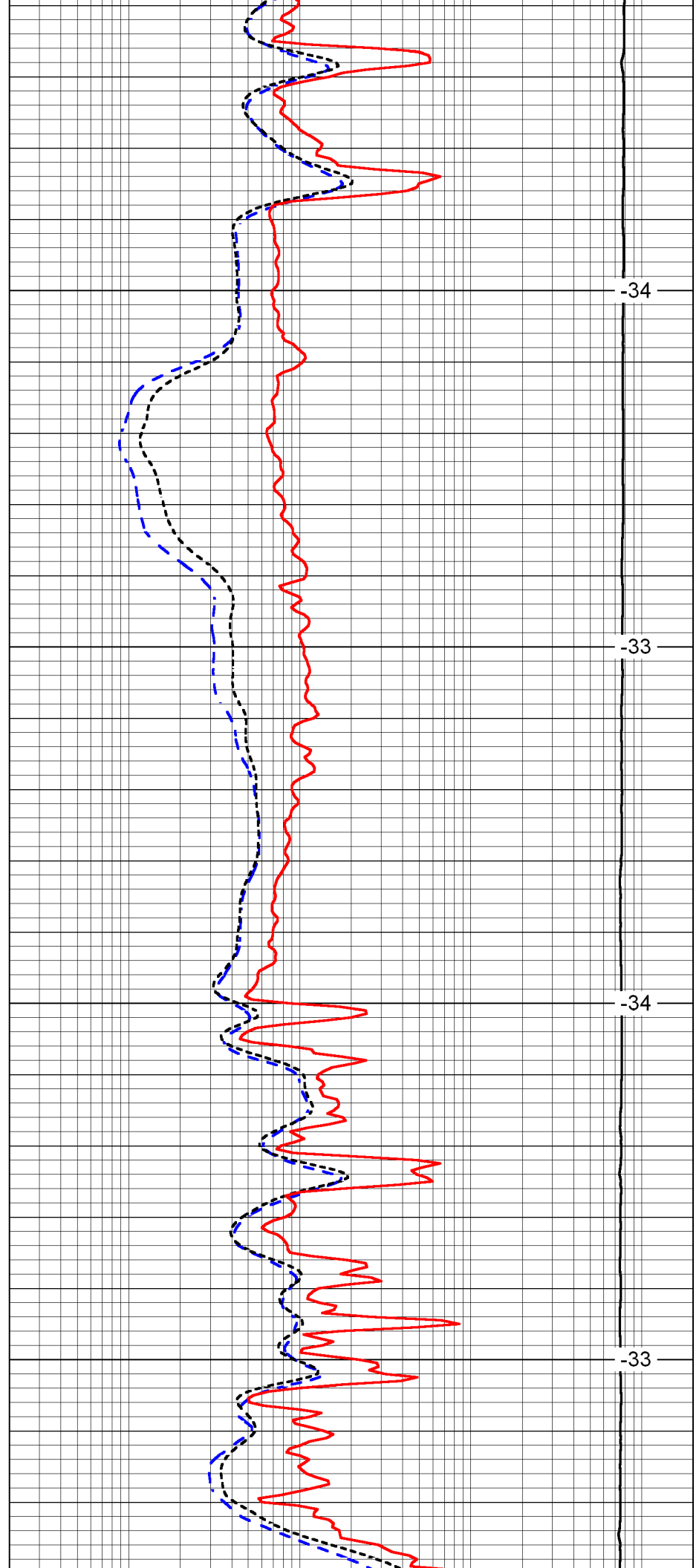


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3700

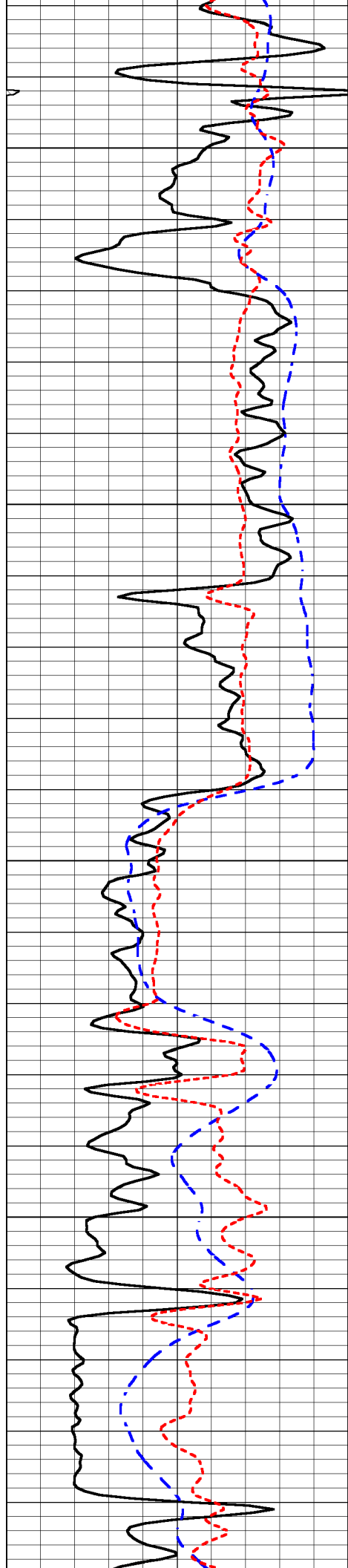


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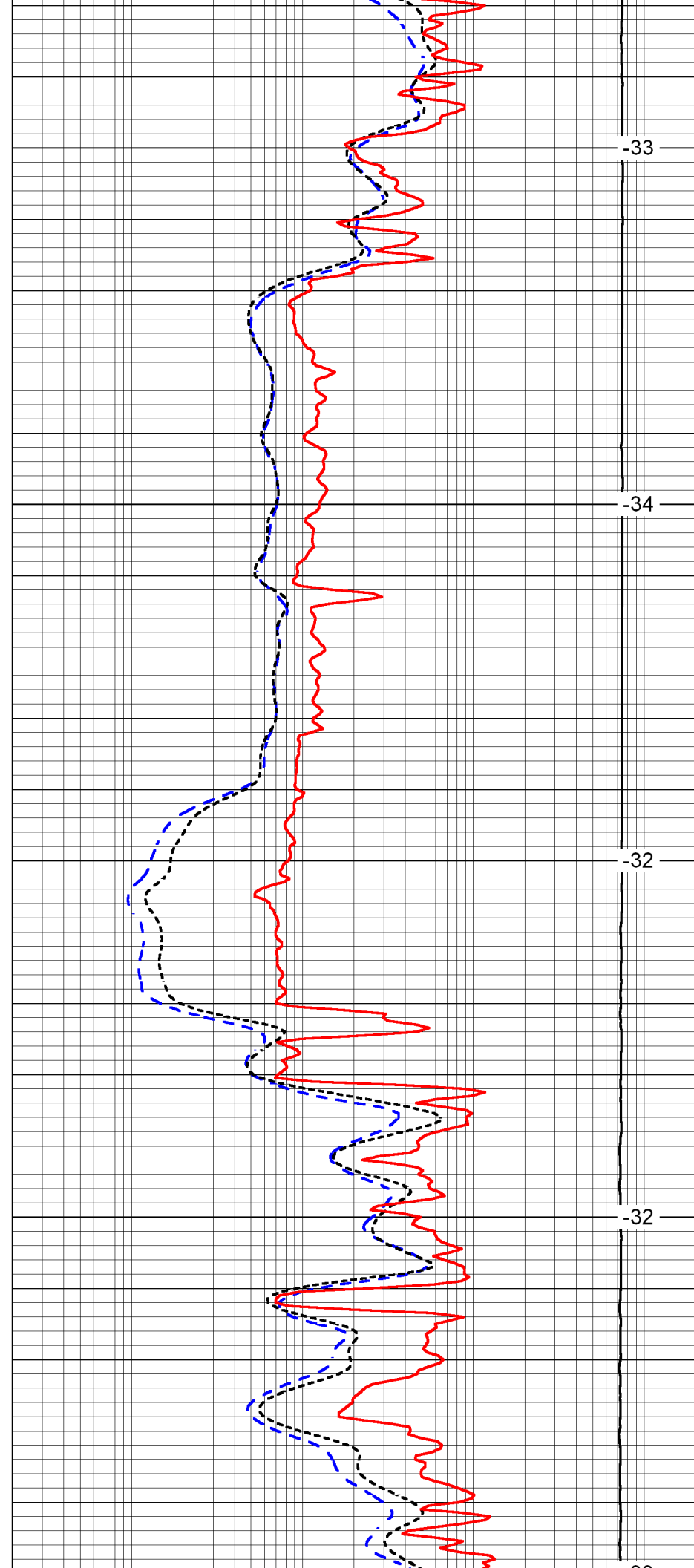
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3800

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3900

3950



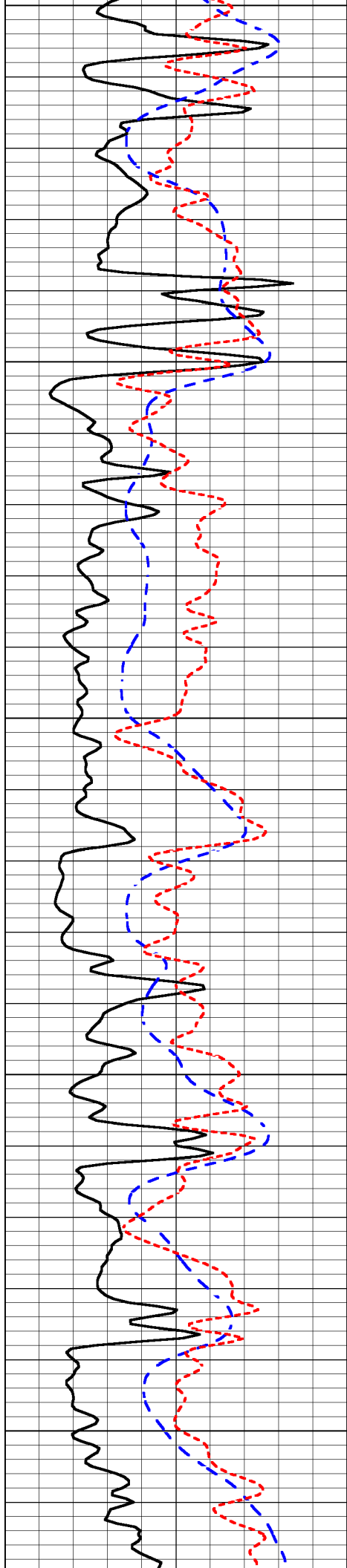
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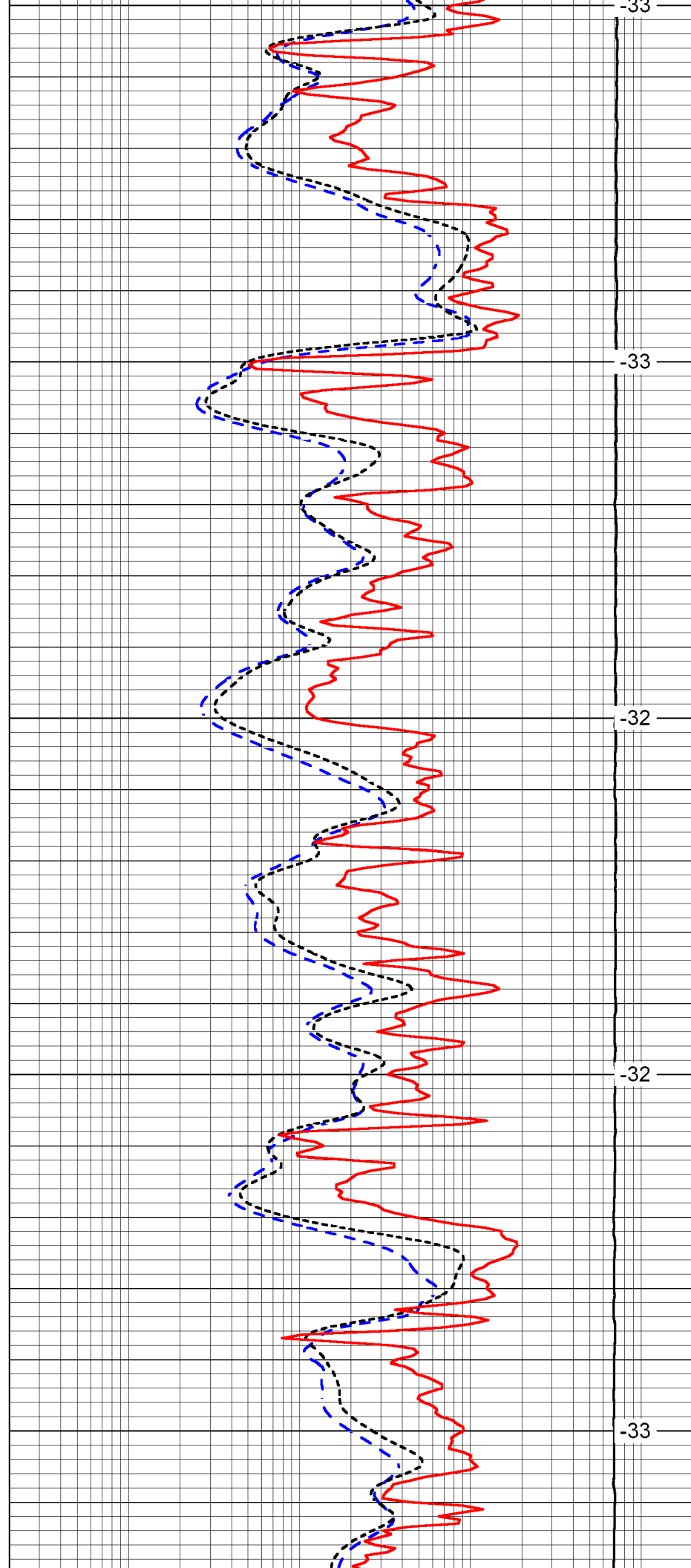
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4000

4050

4100

4150



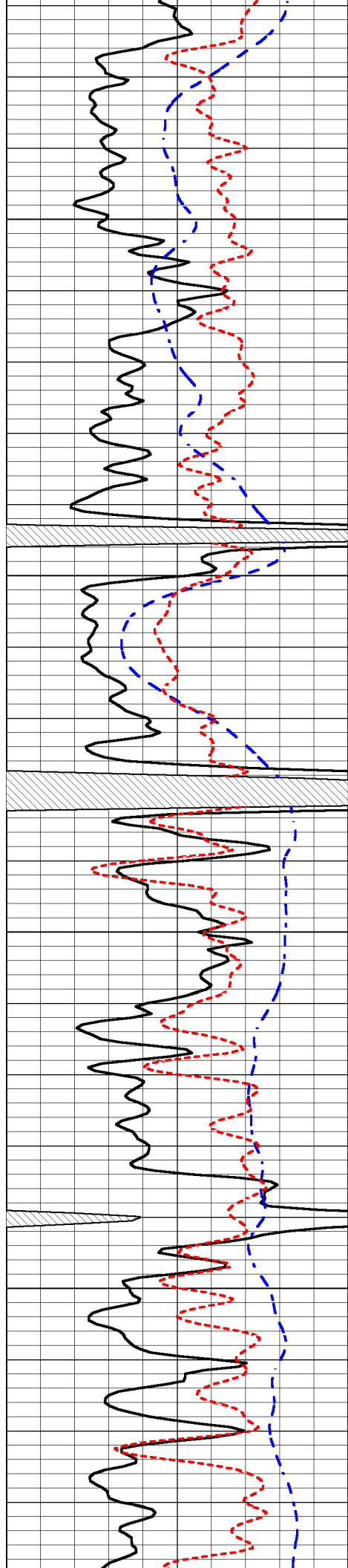
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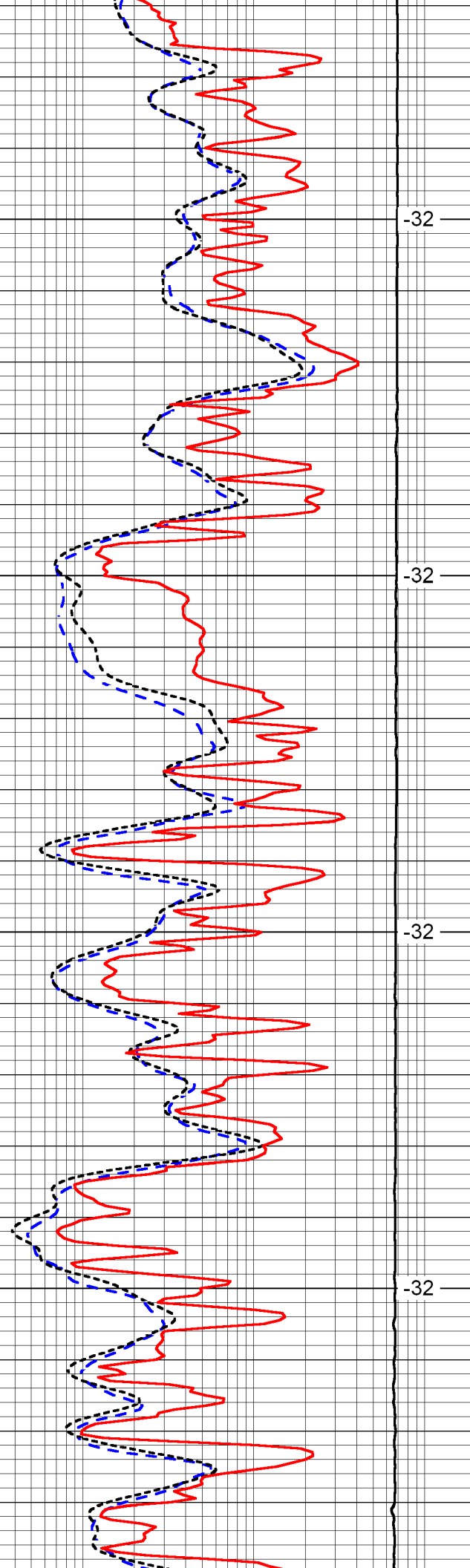


4200

4250

4300

4350

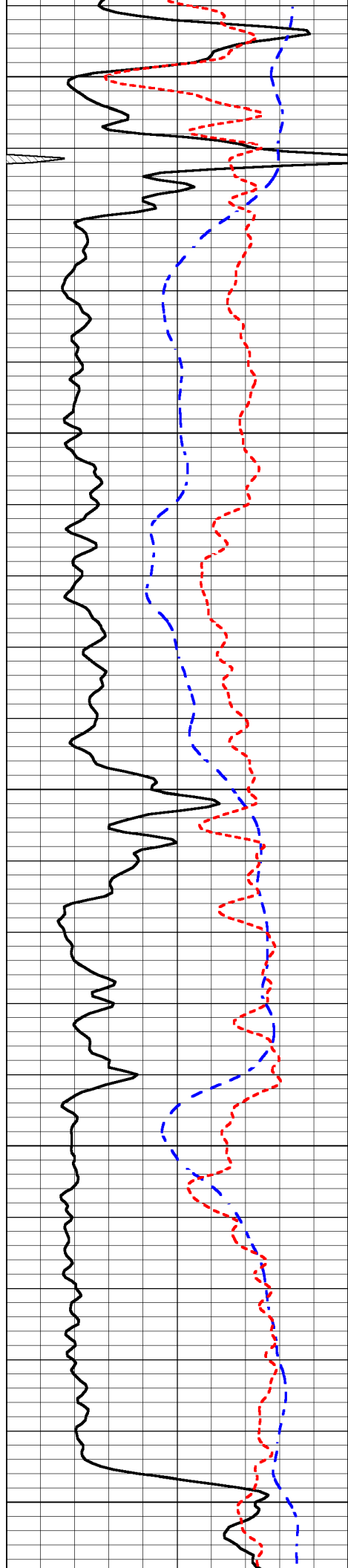


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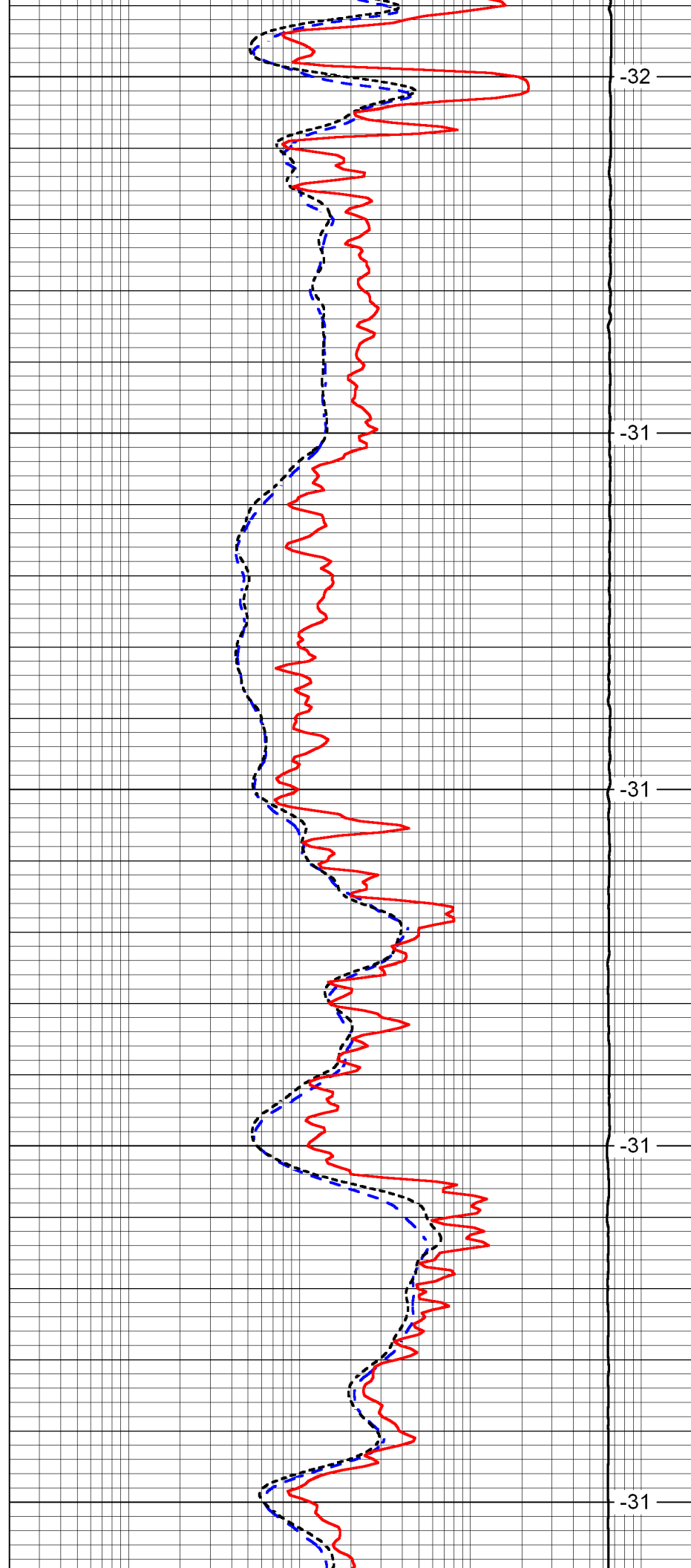
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4500

4550

4600



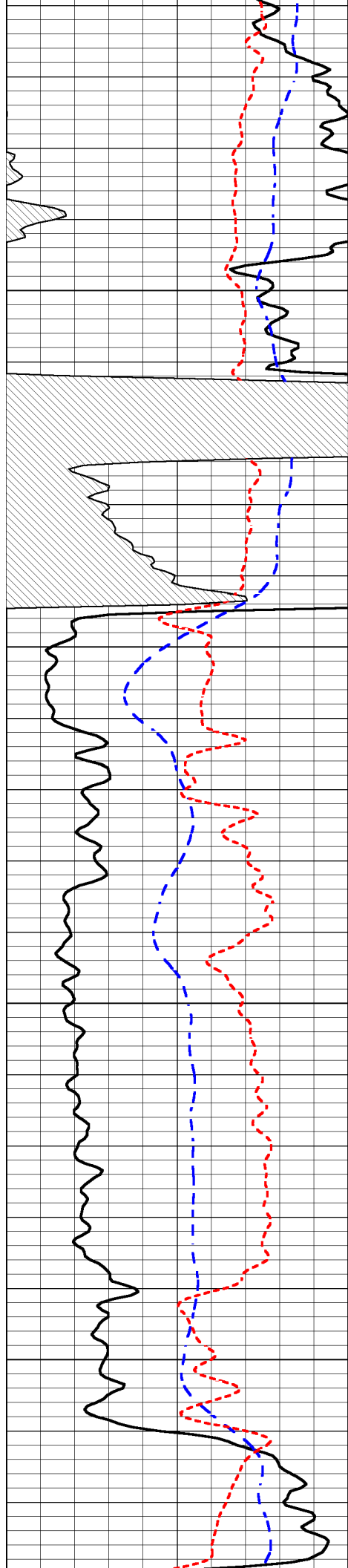
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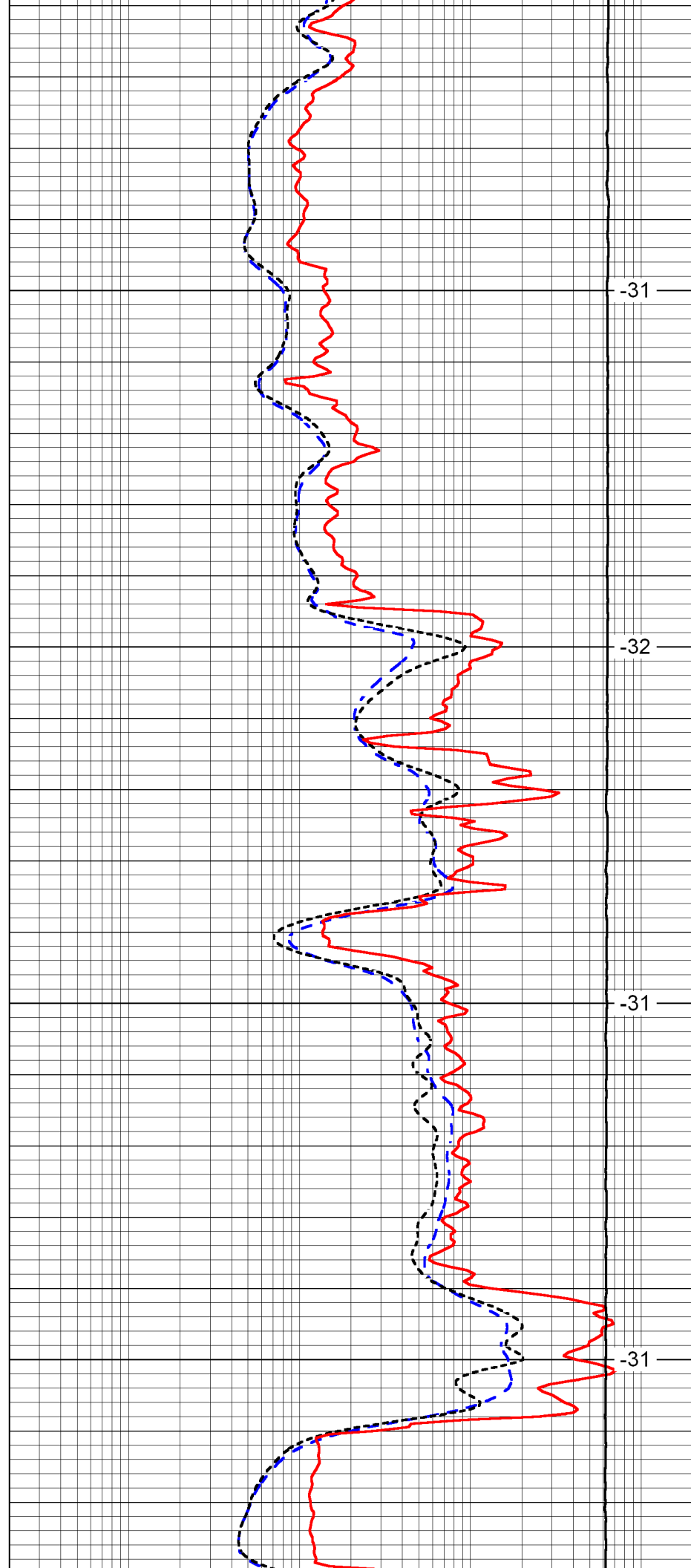


4650

4700

4750

4800

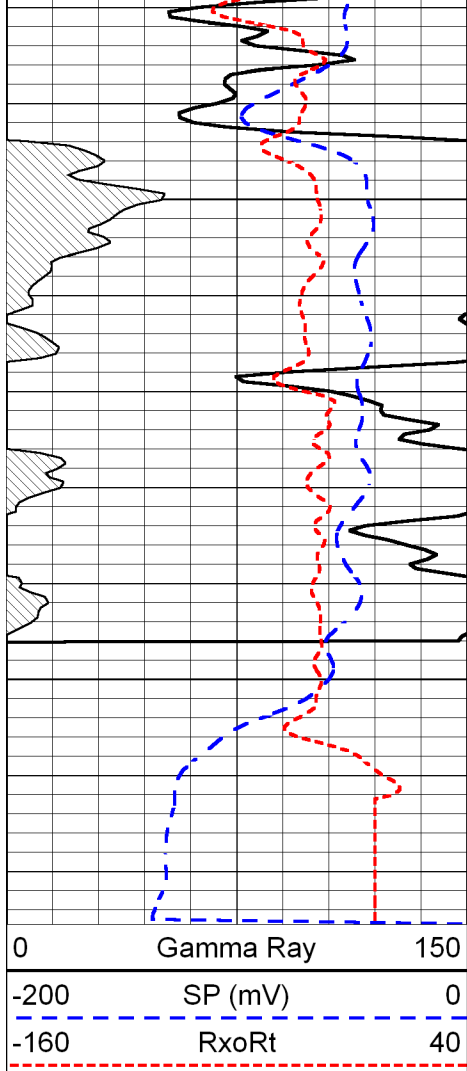


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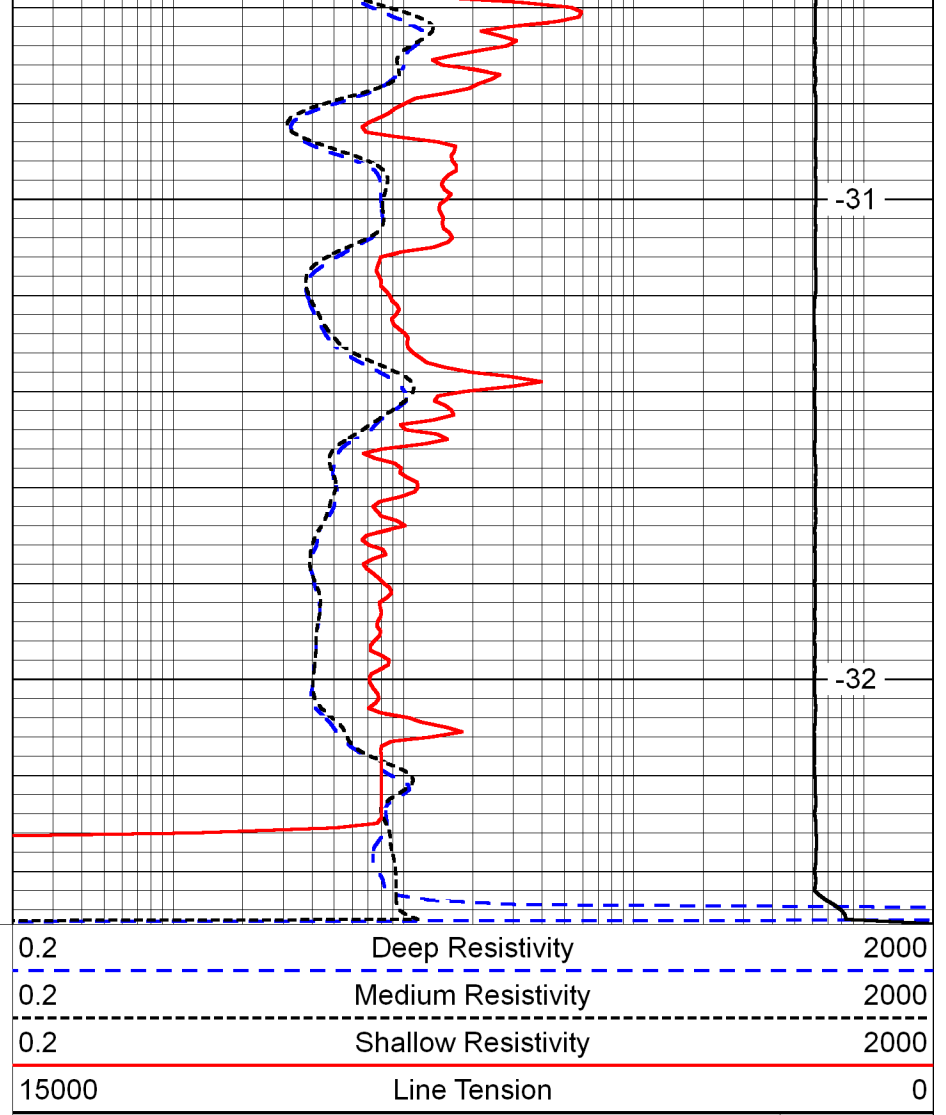
-31

-31



4850

4900



-31

-32

LSPD



MICRORESISTIVITY LOG

Company ROBERTS RESOURCES
 Well ETHERIDGE TRUST #1-16
 Field EBY
 County BARBER
 State KANSAS

Company ROBERTS RESOURCES
 Well ETHERIDGE TRUST #1-16
 Field EBY
 County BARBER State KANSAS

Location: API #: 15-007-24276-00-00
 3010' FSL & 1910' FEL
 SEC 16 TWP 32S RGE 12W
 Ground Level Elevation 1627
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services
 CNL/CDL
 DIL
 Elevation
 K.B. 1639
 D.F. N/A
 G.L. 1627

Date	7/10/2015
Run Number	Two
Depth Driller	4920'
Depth Logger	4922'
Bottom Logged Interval	4921'
Top Log Interval	2000
Casing Driller	8.625" @ 268'
Casing Logger	268'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5,000
Density / Viscosity	9.1 60
pH / Fluid Loss	11.0 8.8
Source of Sample	Flowline
Rm @ Meas. Temp	.75 @ 78
Rmf @ Meas. Temp	.56 @ 78
Rmc @ Meas. Temp	1.01 @ 78
Source of Rmf / Rmc	Charts
Rm @ BHT	.47 @ 125
Operating Rig Time	4 Hours
Max Rec. Temp. F	125
Equipment Number	108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	KENT ROBERTS
	K. PFANNENSTIEL

<<< Fold Here >>>

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Medicine Lodge Kansas
 West to 281 Junction, 1/2 West to Woodward Rd,
 Go south and road turns into Red Rock Rd, Follow West to Tank Battery
 West Into

Log Measured From: KELLY BUSHING 12' Ft. Above Permanent Datum

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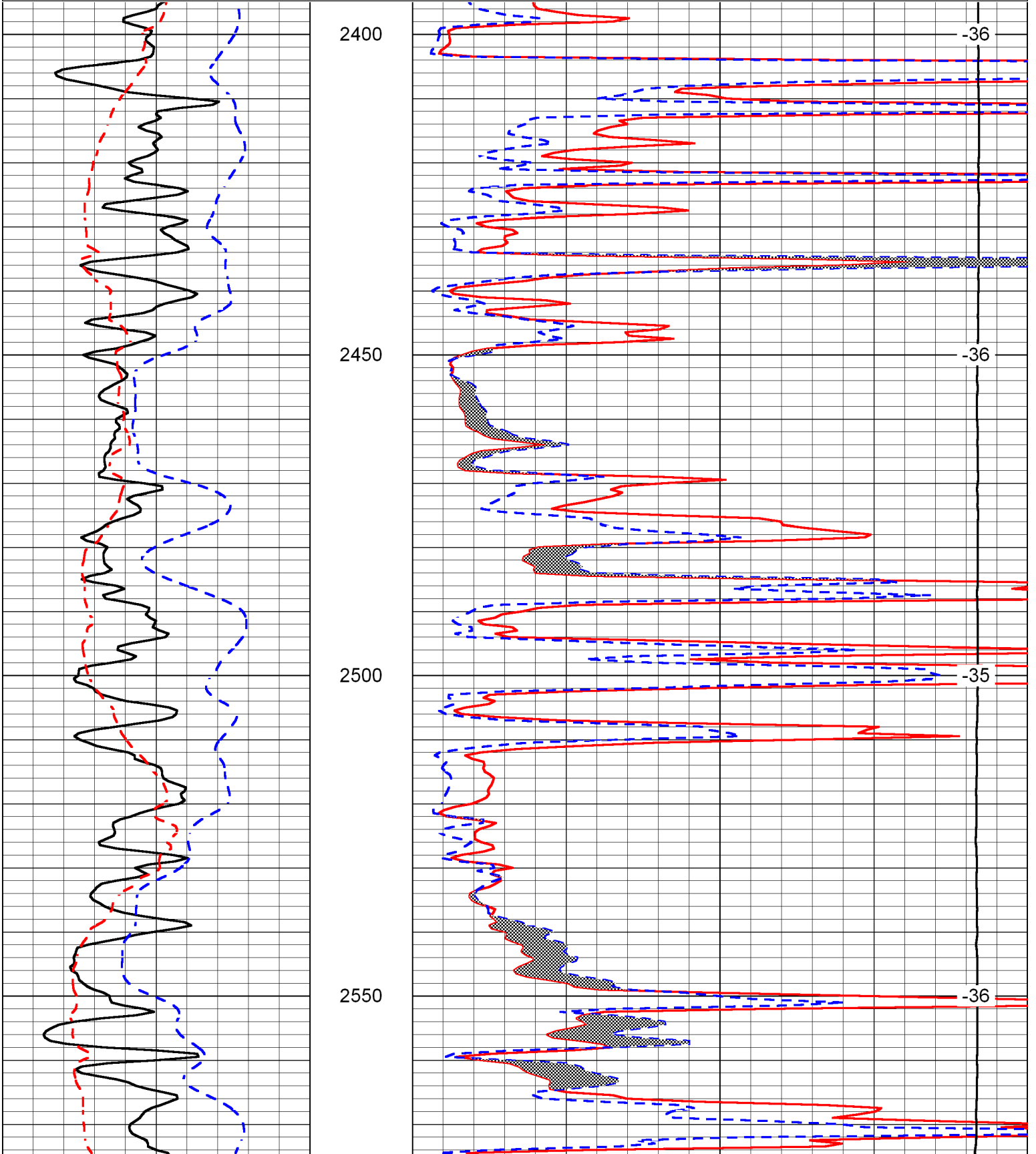
Your Pioneer Energy Services Crew Engineer: J. HENRICKSON Operator: K. PFANNENSTIEL Operator: Operator:	This Log Record Was Witnessed By Primary Witness: KENT ROBERTS Secondary Witness: Secondary Witness: Secondary Witness:
---	---

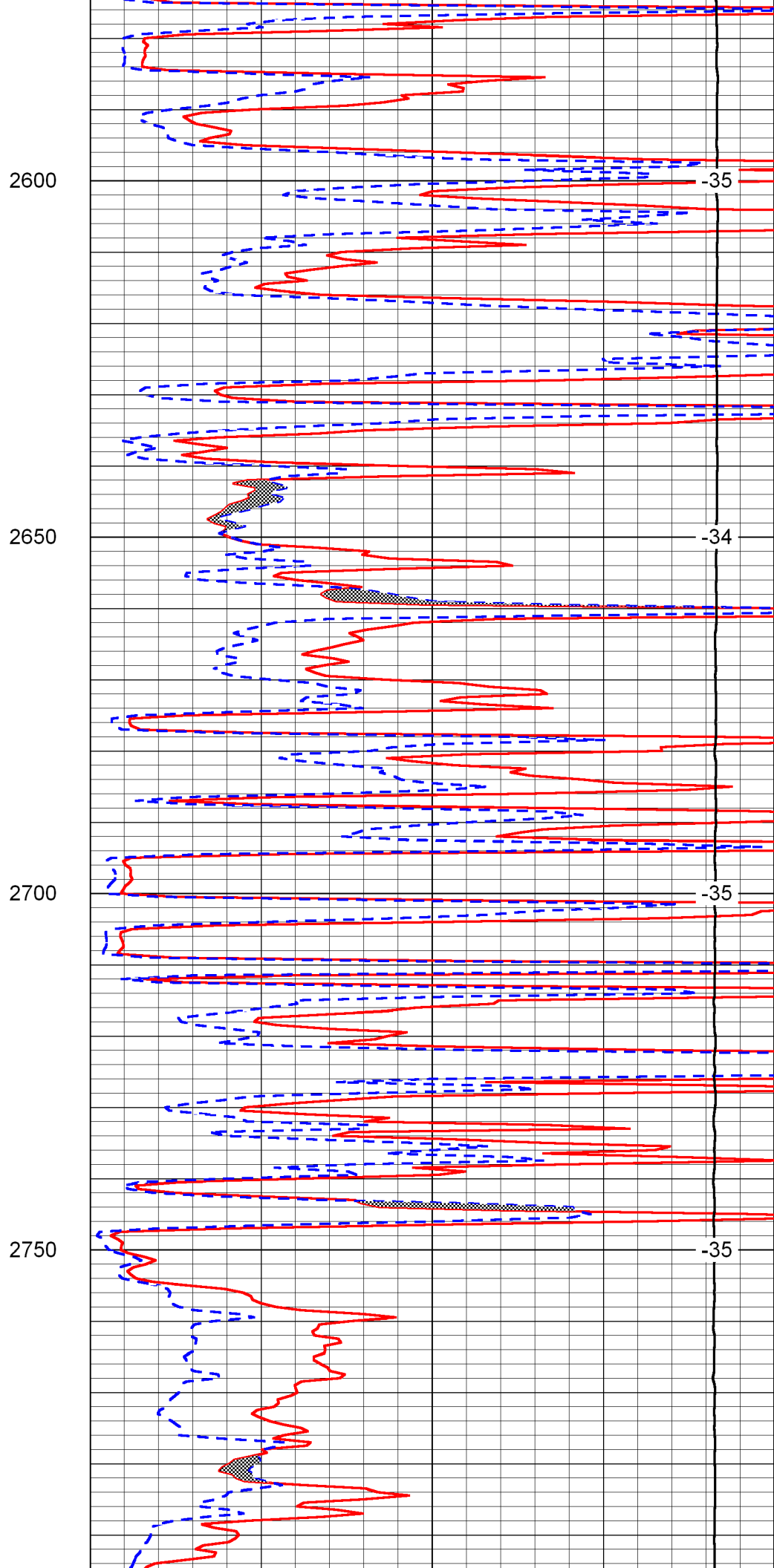
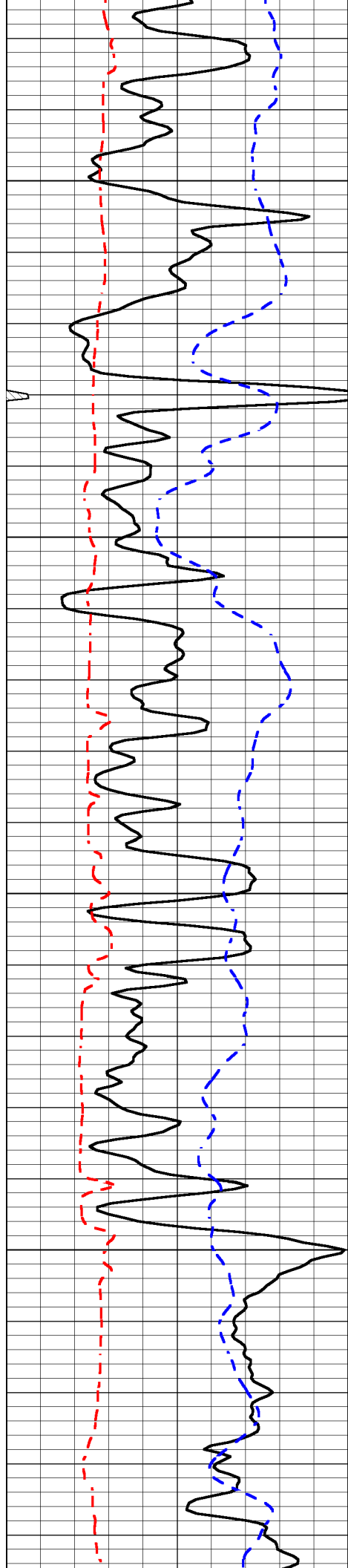
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 Presentation Format micro
 Dataset Creation Sat Jul 11 00:32:56 2015
 Charted by Depth in Feet scaled 1:240

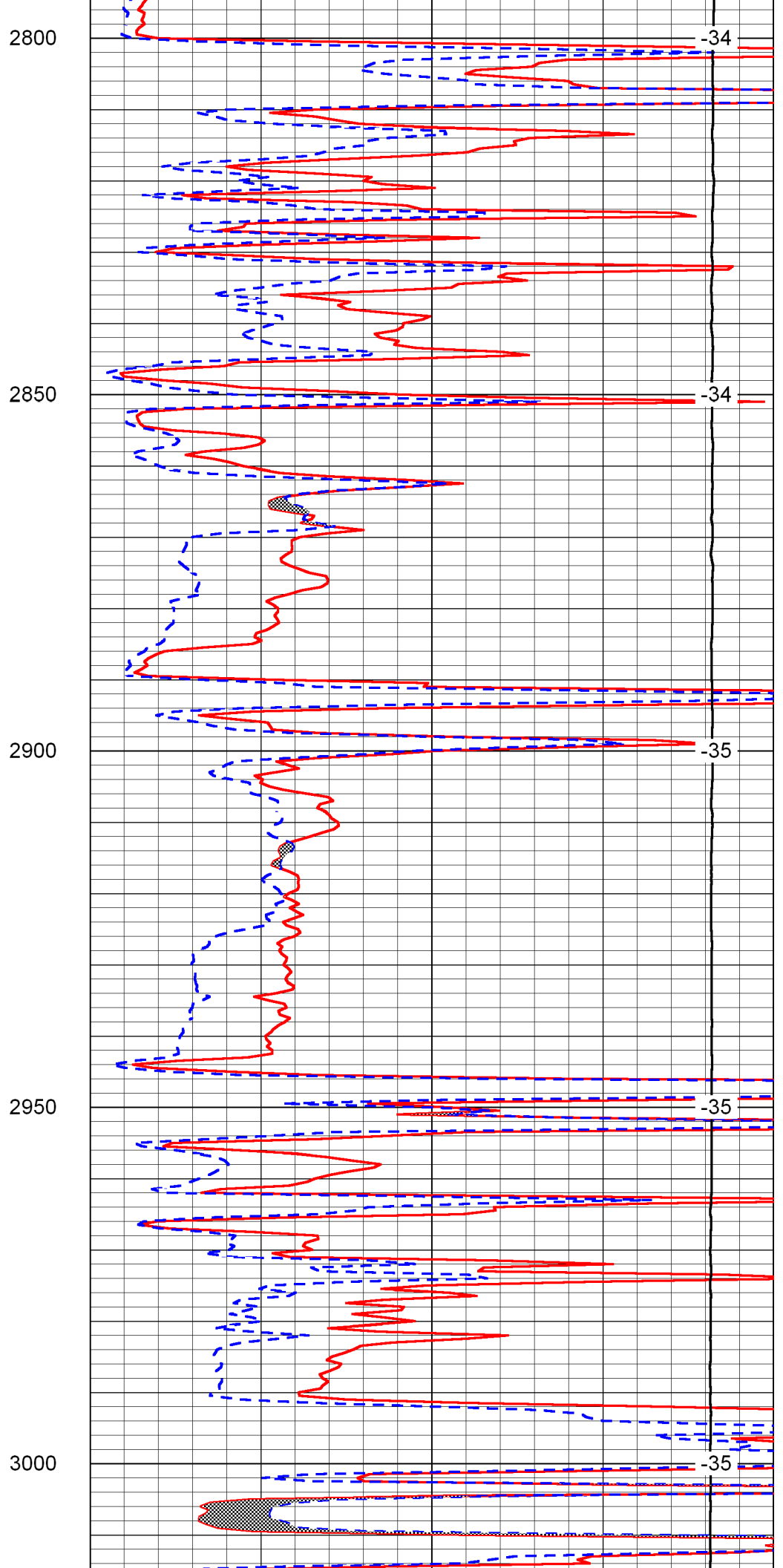
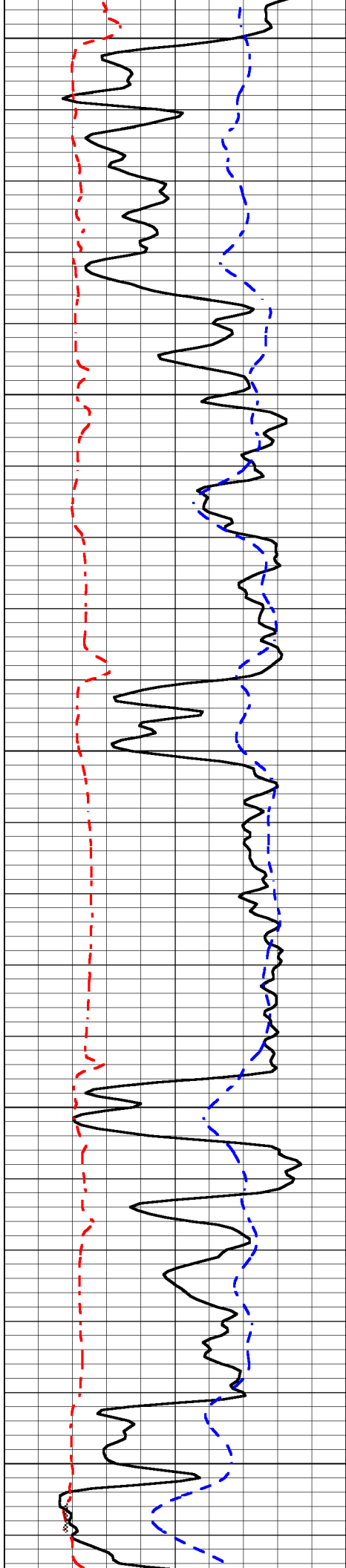
0	Gamma Ray	150
6	MCAL (in)	16
-200	SP (mV)	0

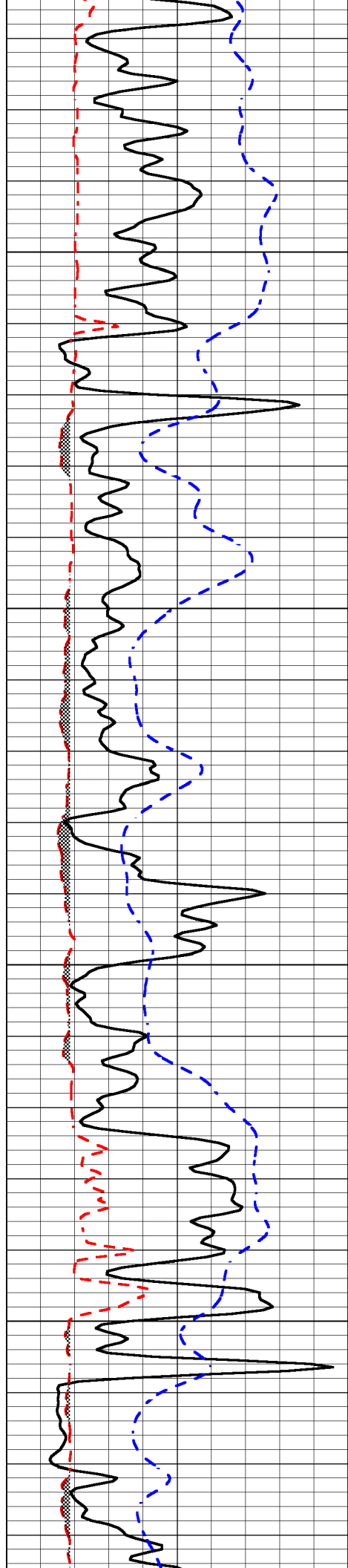
0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD







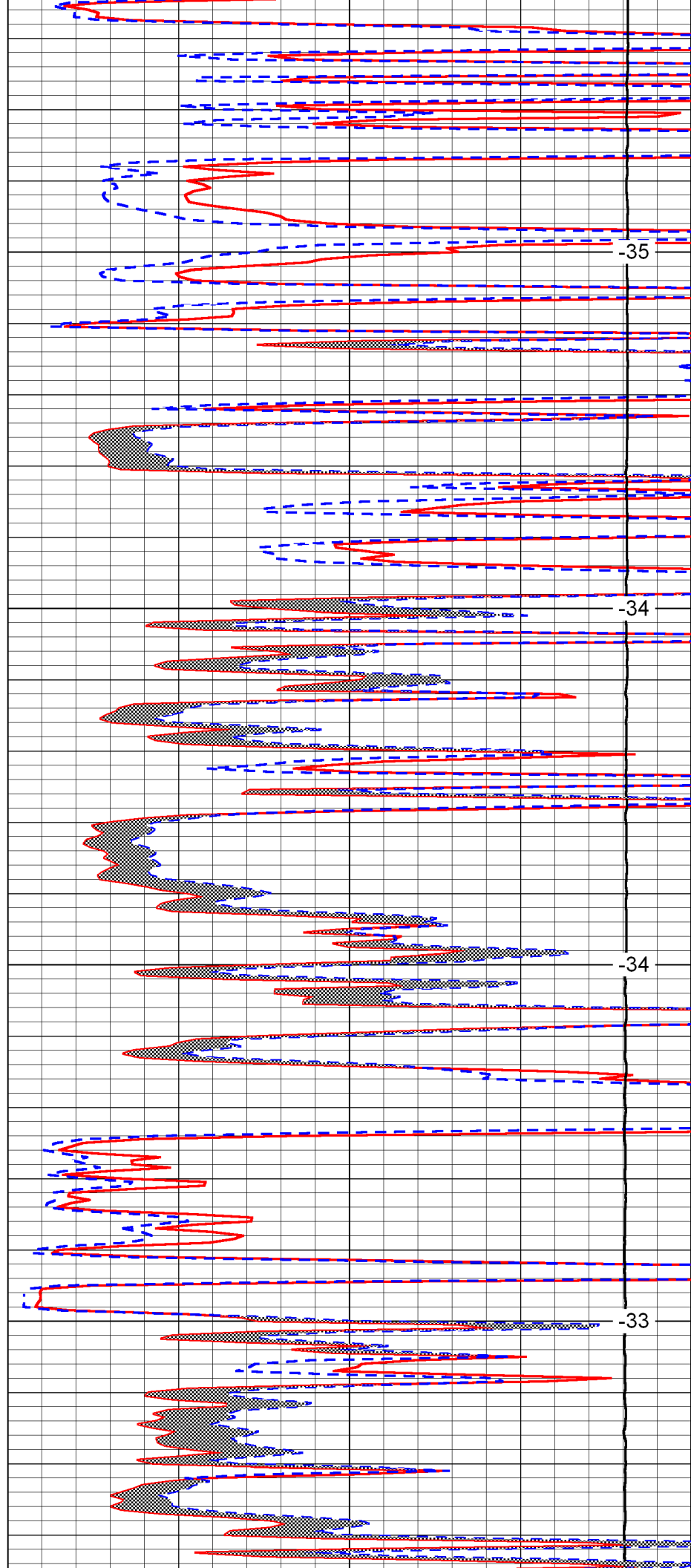


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3100

3150

3200

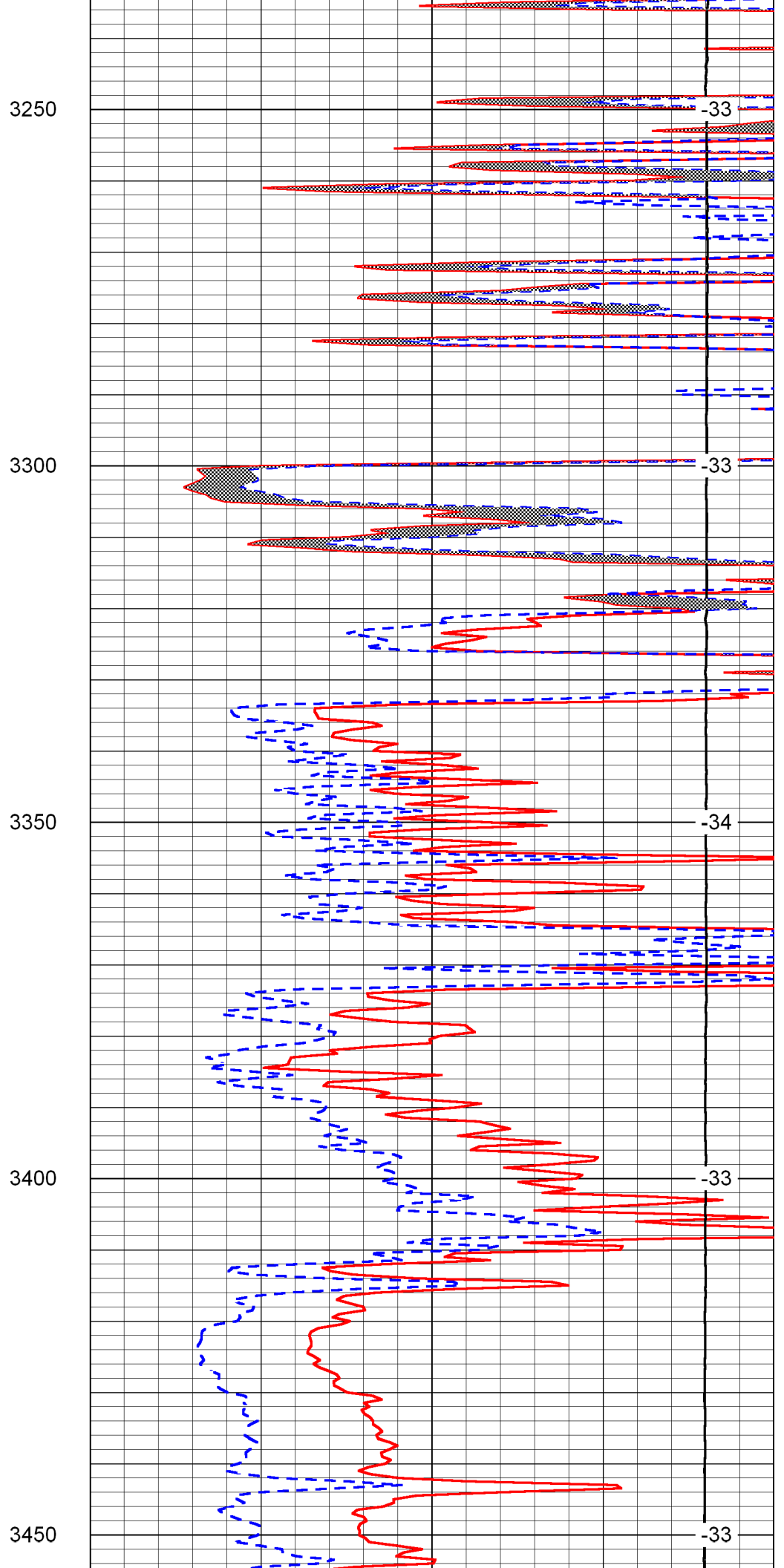
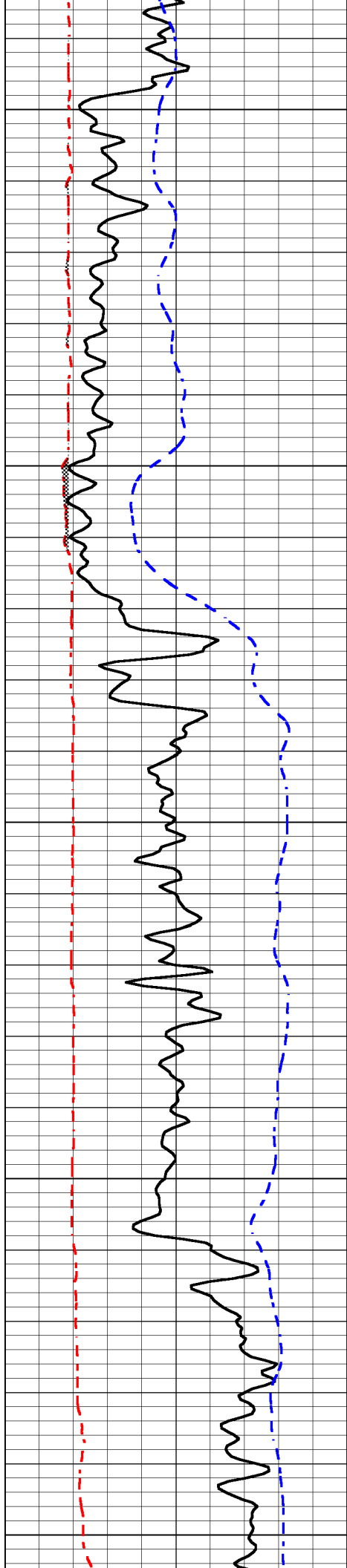


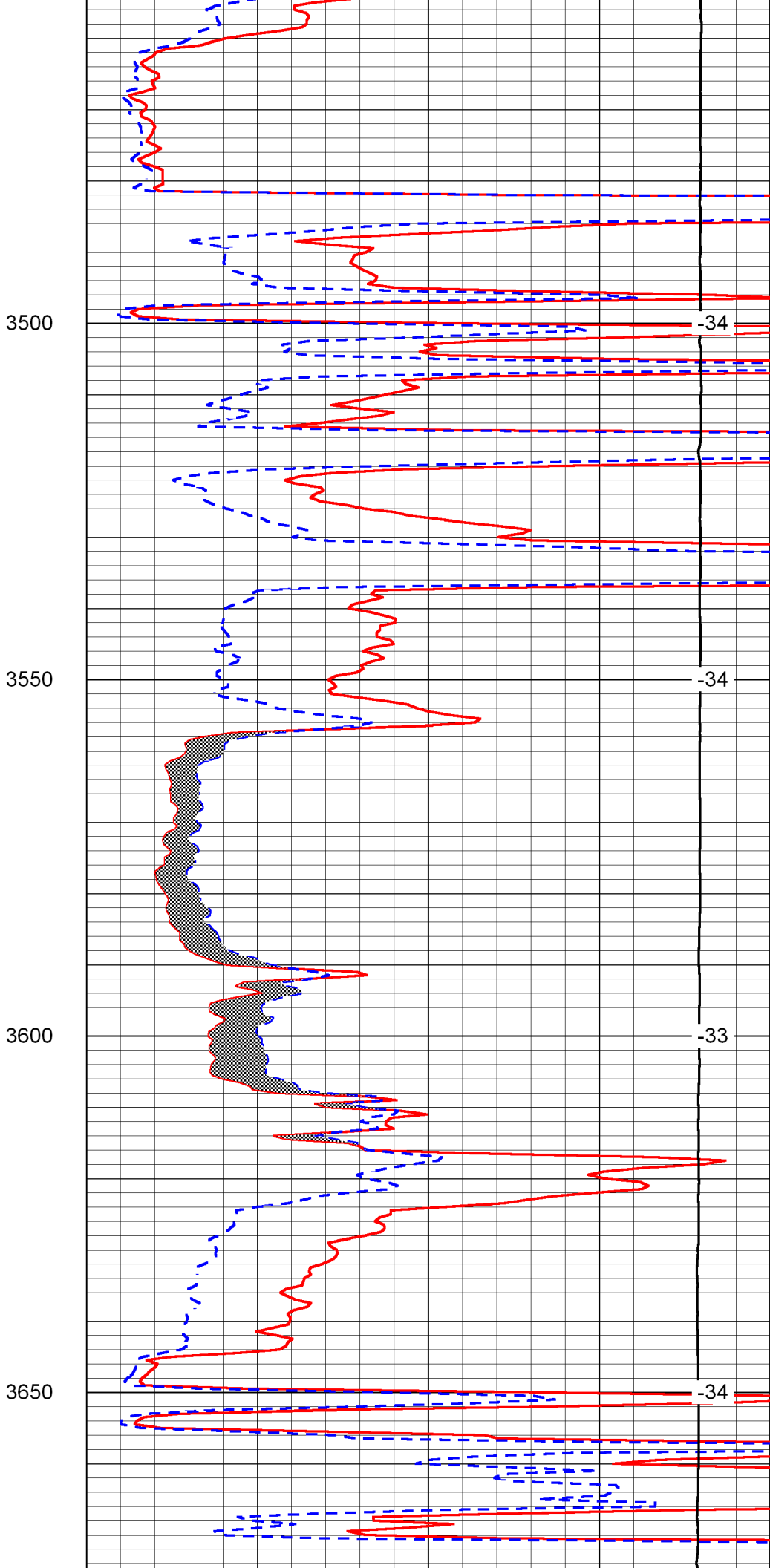
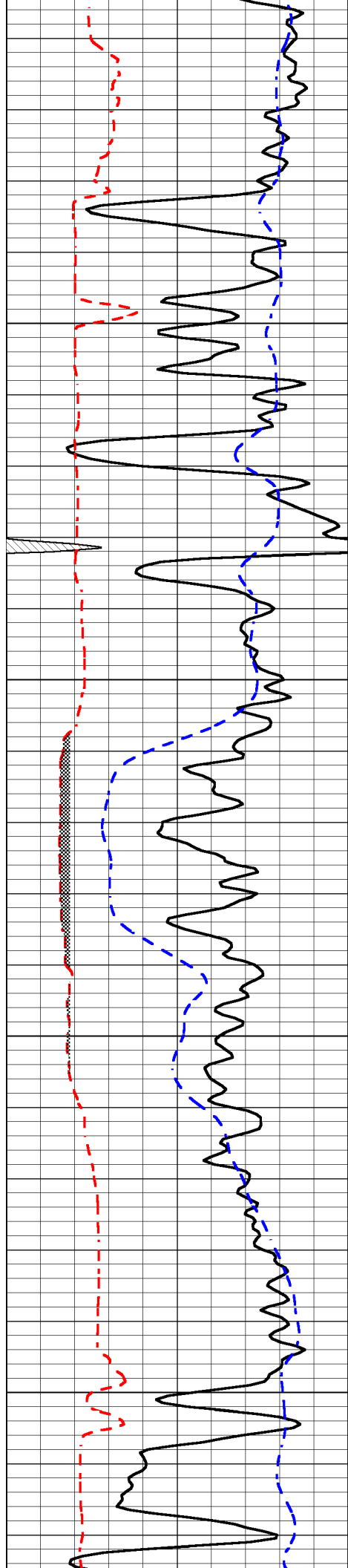
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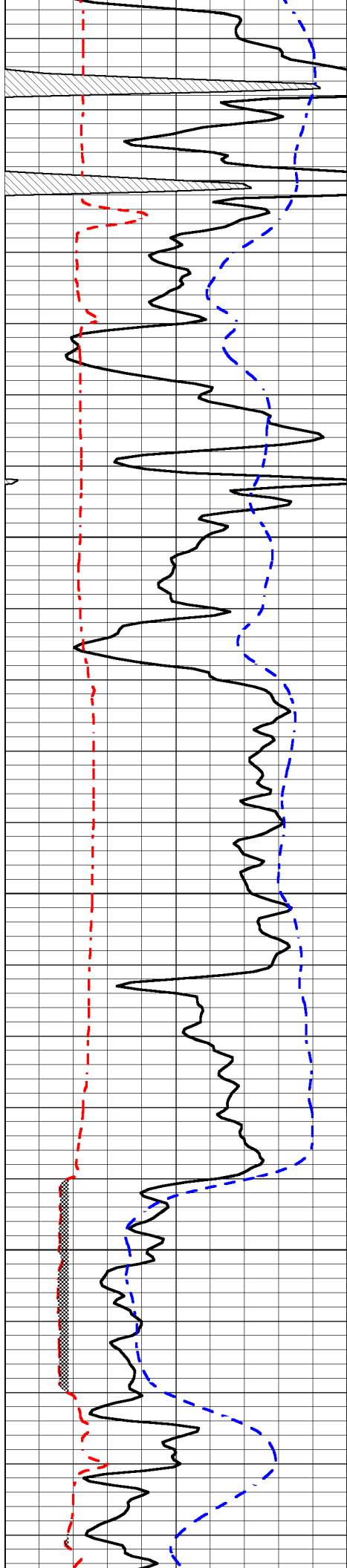
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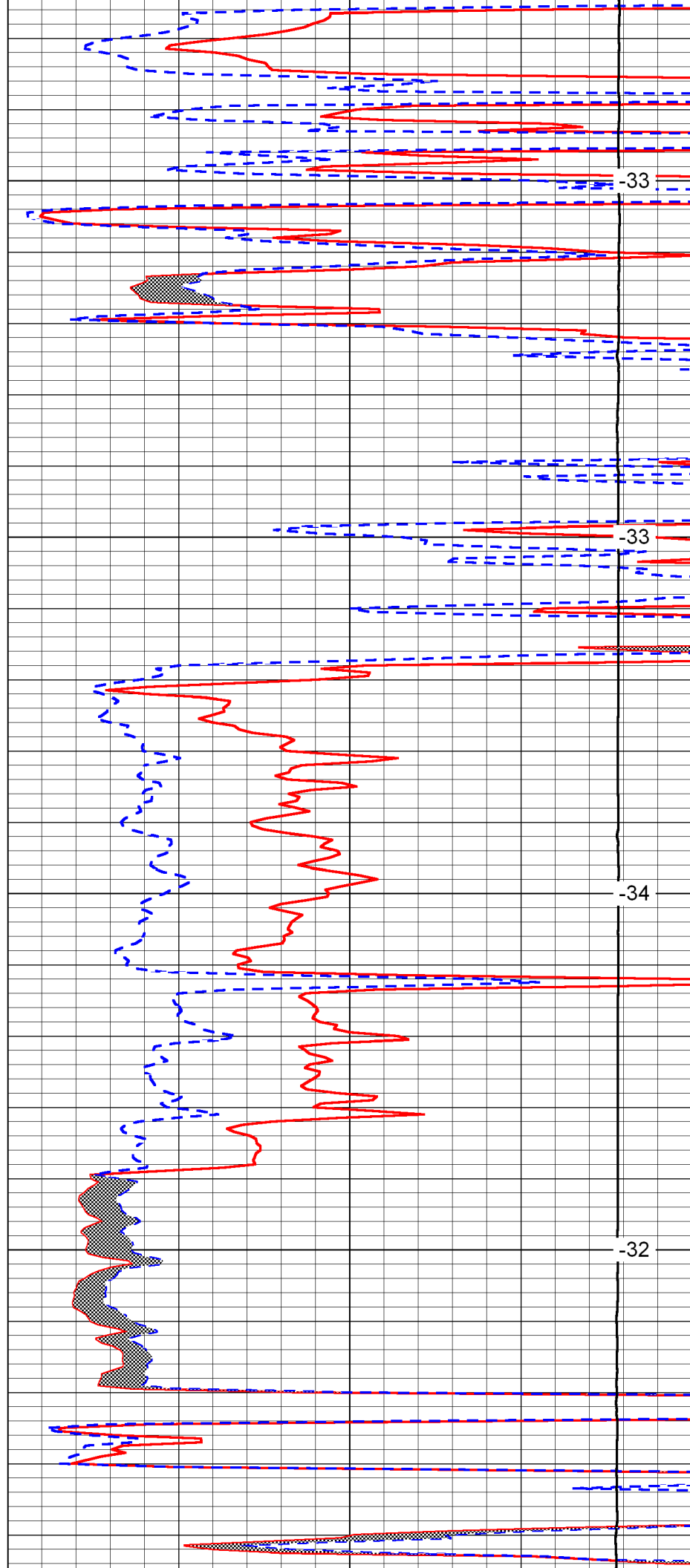


3700

3750

3800

3850

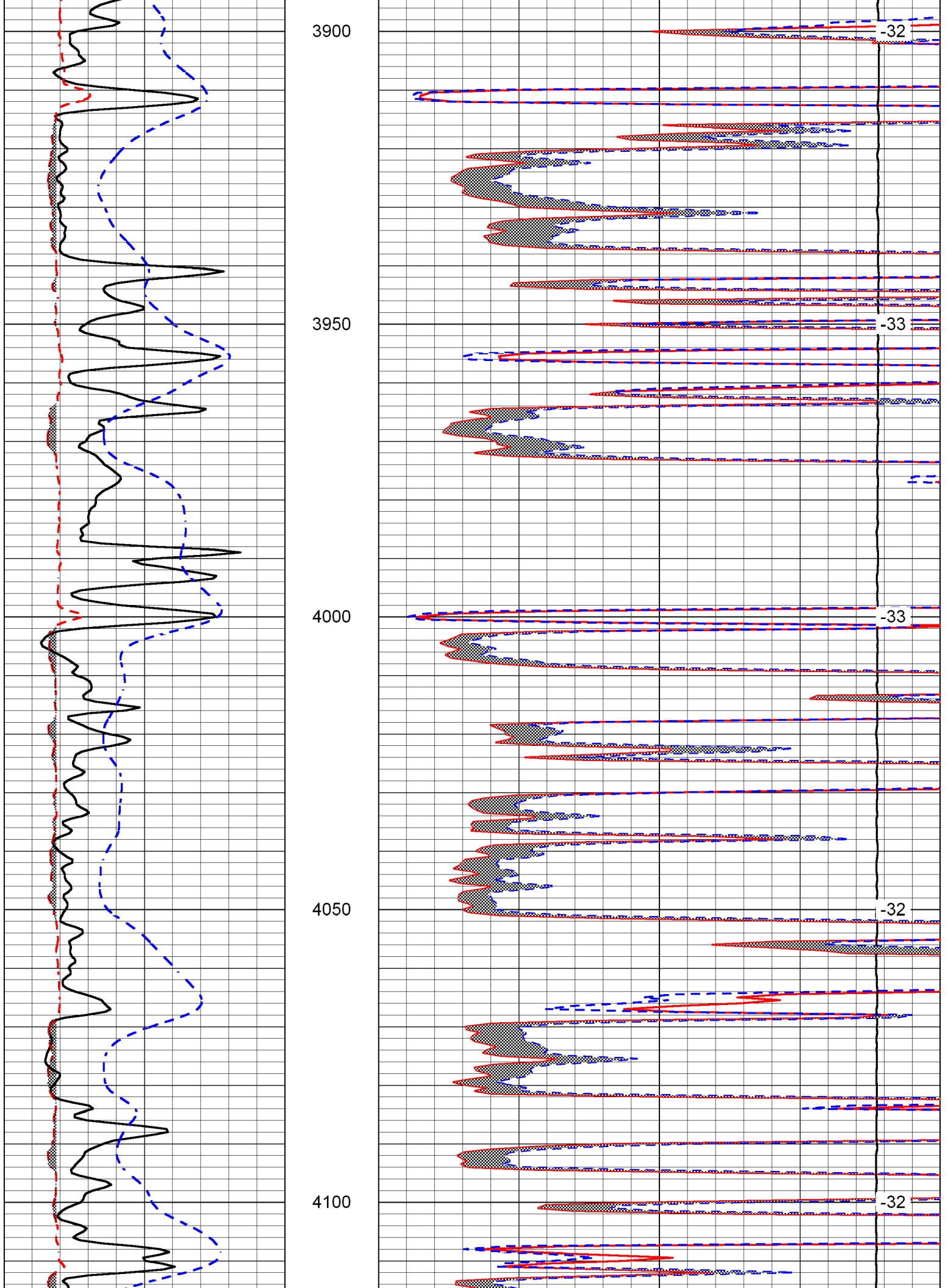


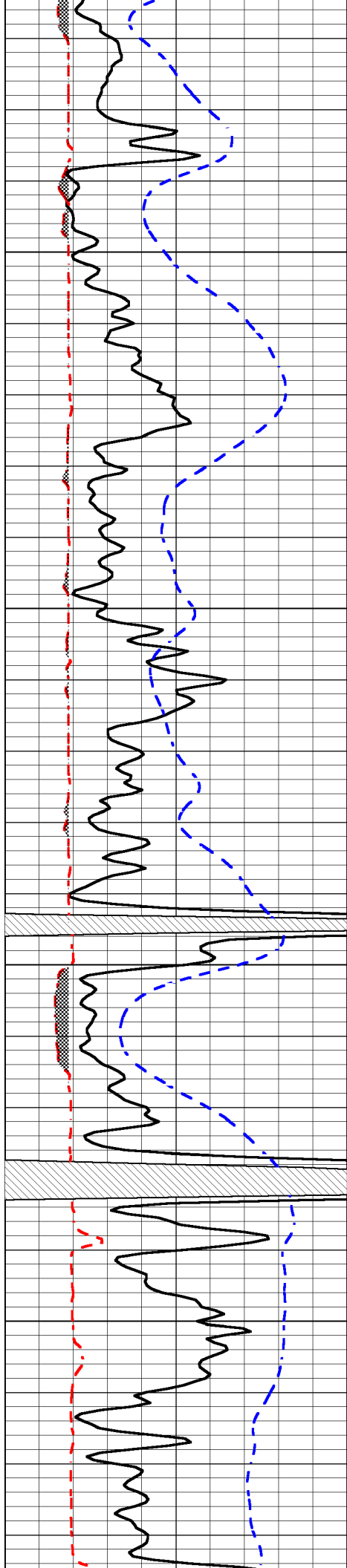
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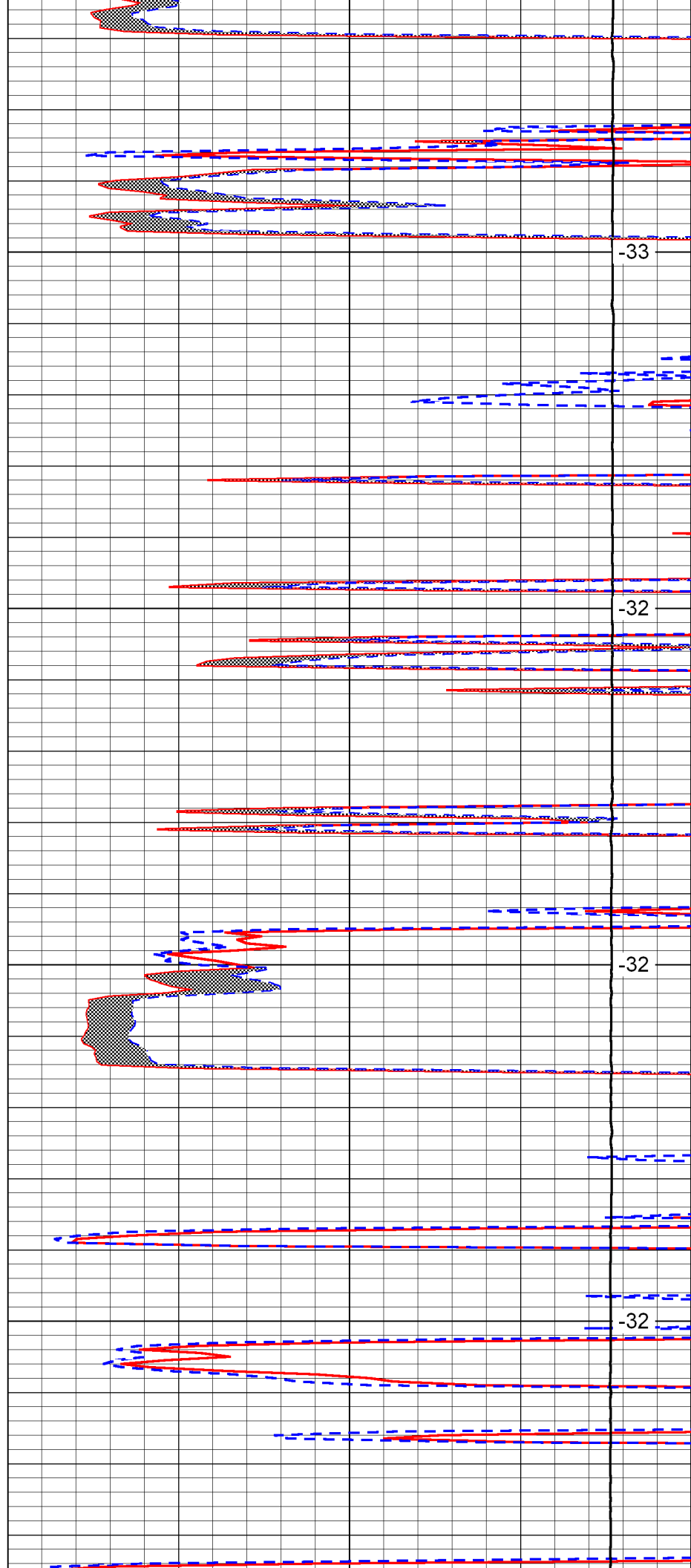


4150

4200

4250

4300

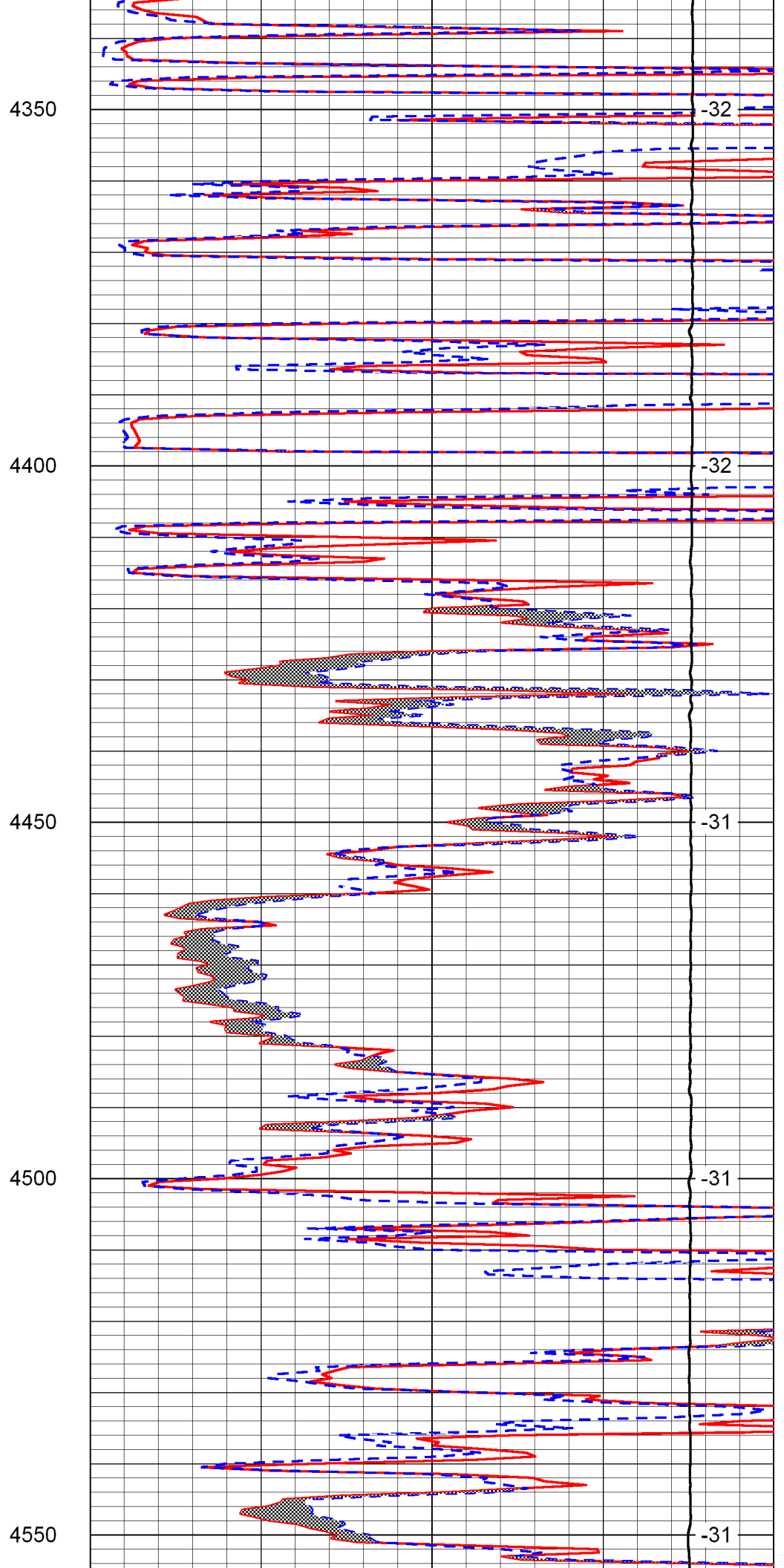
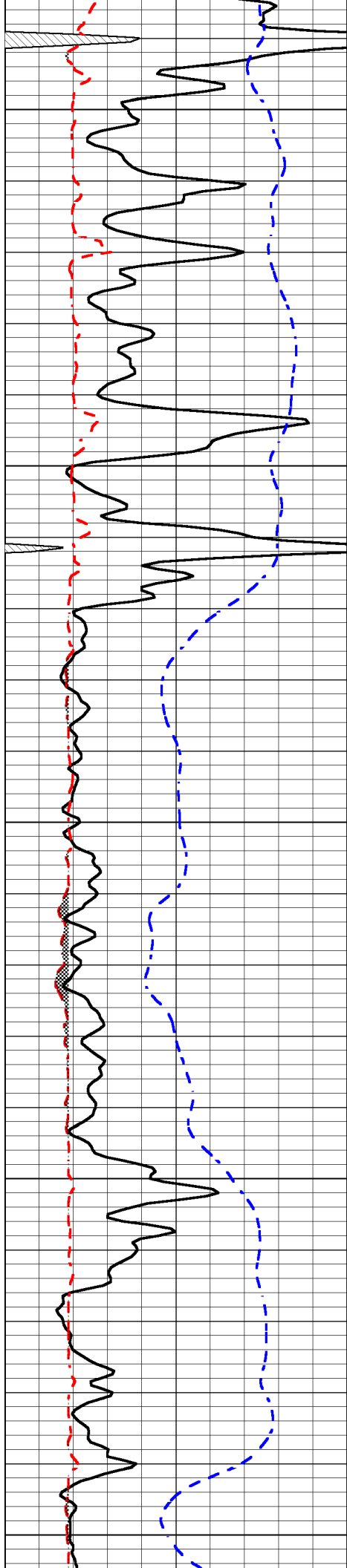


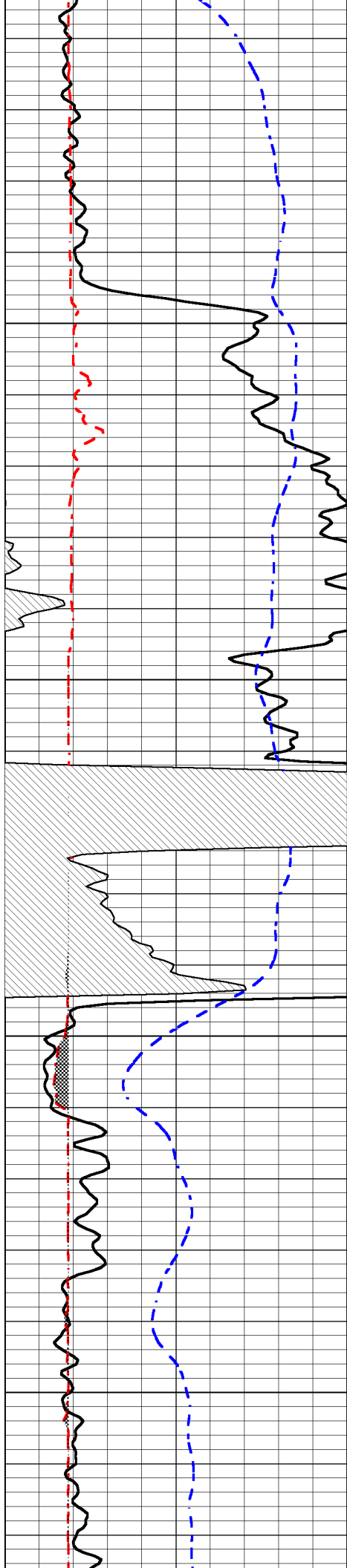
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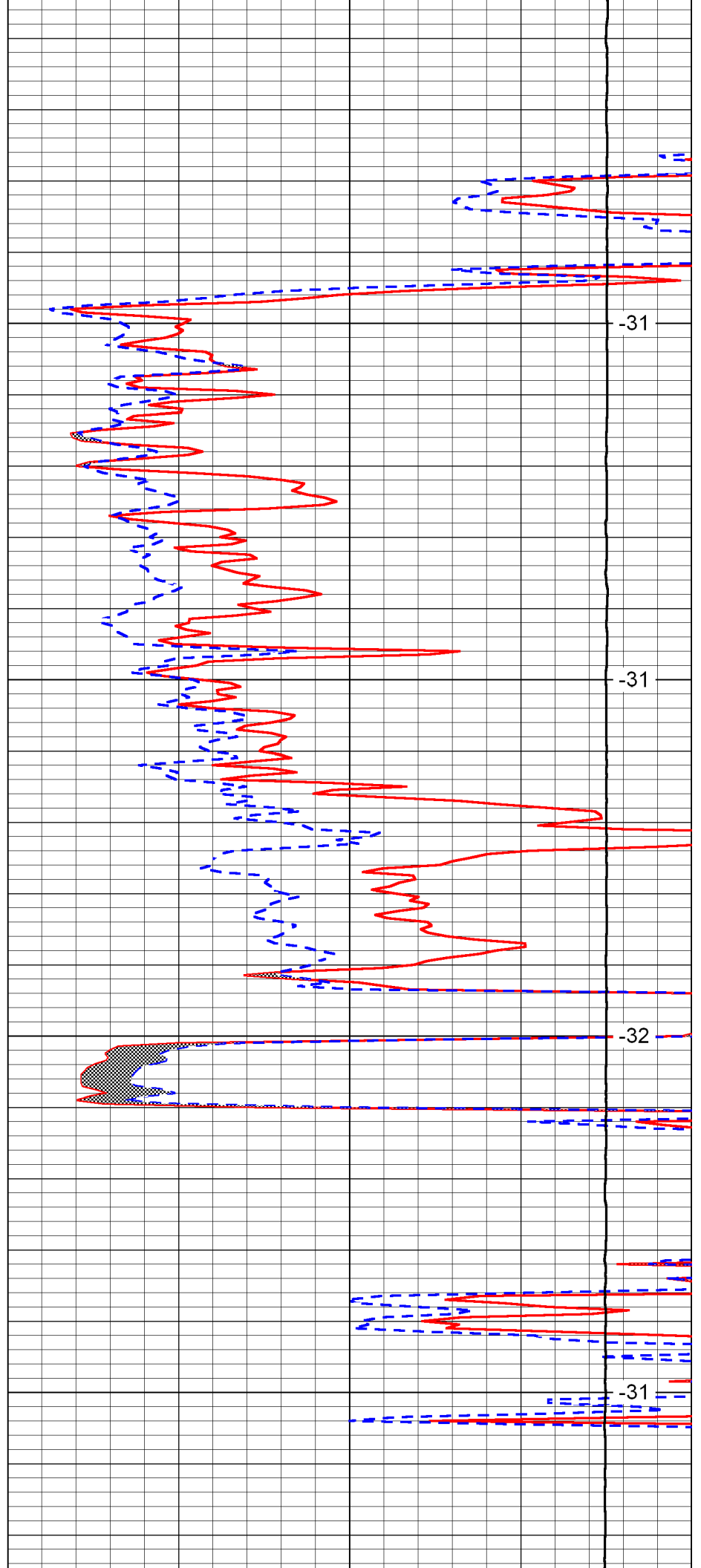


4600

4650

4700

4750

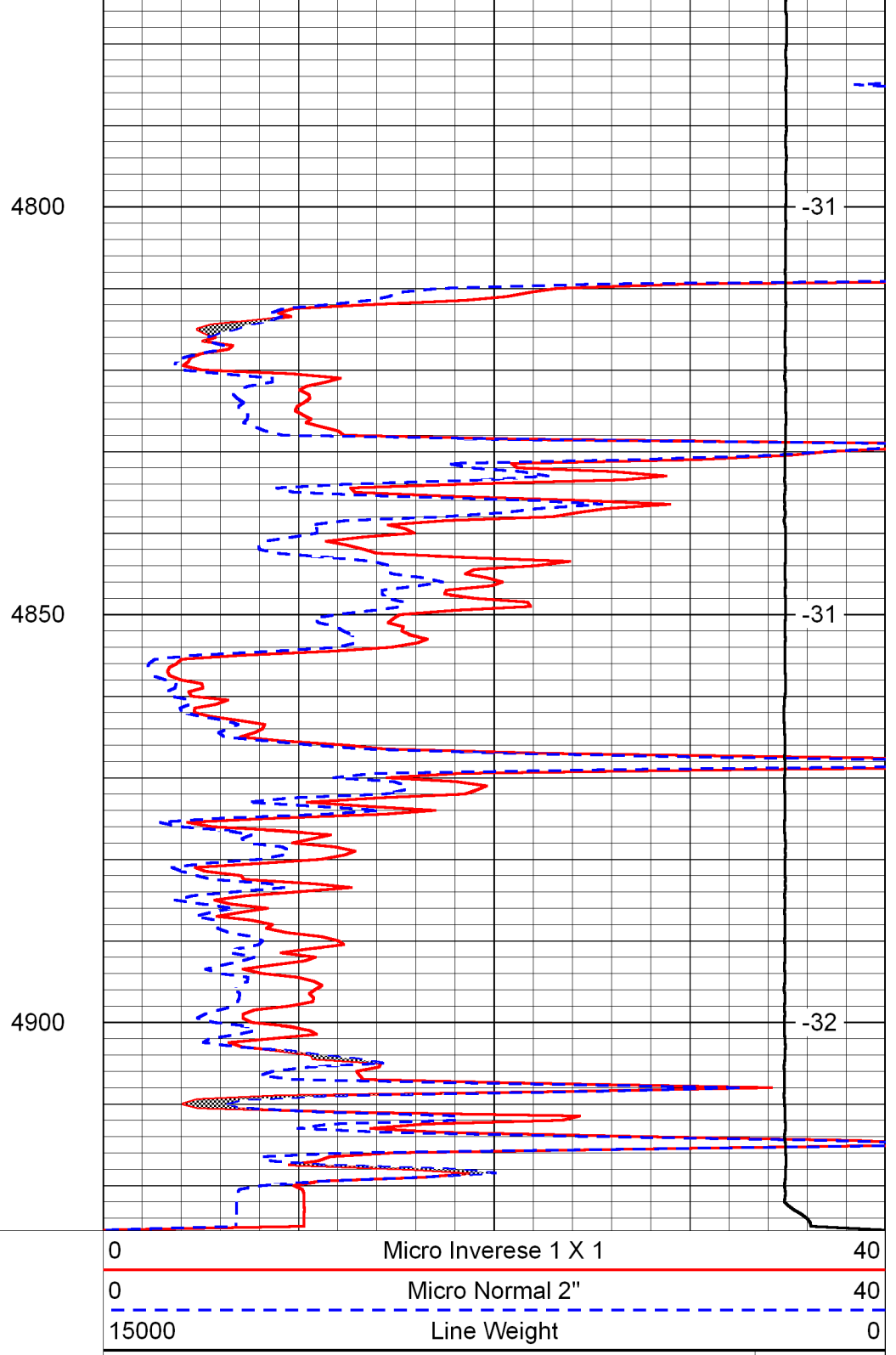
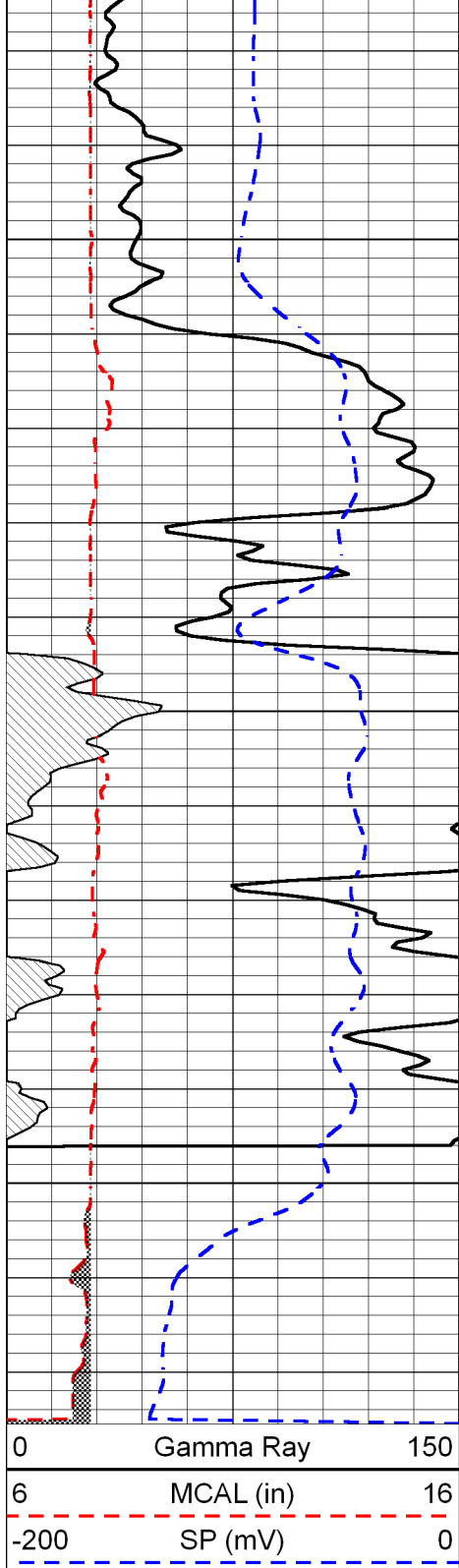


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LSPD



Sector Bond Log

Company Roberts Resources, Inc. Well Etheridge Trust No.1-16 Field EBY County Barber State Kansas	Company Roberts Resources, Inc. Well Etheridge Trust No.1-16 Field EBY County Barber State Kansas Location: API #: 15-007-24276-00-00 3010' FSL & 1910' FEL SEC 16 TWP 32S RGE 12W Permanent Datum Ground Level Elevation 1627 Log Measured From Kelly Bushing 12' KB Drilling Measured From Kelly Bushing Other Services Mast Trailer Elevation K.B. 1639 D.F. G.L. 1627						
Date 7/20/2015	One						
Run Number	4920						
Depth Driller	4865						
Depth Logger	4863						
Bottom Logged Interval	3250						
Top Log Interval	Water						
Open Hole Size	Water						
Type Fluid	Water						
Density / Viscosity	////						
Max. Recorded Temp.	125						
Estimated Cement Top	3440						
Time Well Ready	////						
Time Logger on Bottom	////						
Equipment Number	T045						
Location	Pratt, Ks						
Recorded By	S. Chesney						
Witnessed By	Kent Roberts						
Borehole Record							
Run Number	Bit	From	To	Size	Weight	From	To
Tubing Record							
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String							
Prot. String							
Production String	5.5		0	TD			
Liner							

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All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and shall 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 employees or agents. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Remarks: Medicine Lodge, W to Woodward Rd, 1S to Curve, 1W on Red Rock Rd to Curve @ TB, W into

Rig: _____

Prints: _____

Service Order #: _____

BHT	EQUIPMENT DATA			
	Run No	Tool Type	Tool No	Other
Bit Size				
Surface Pressure				
Shut In				

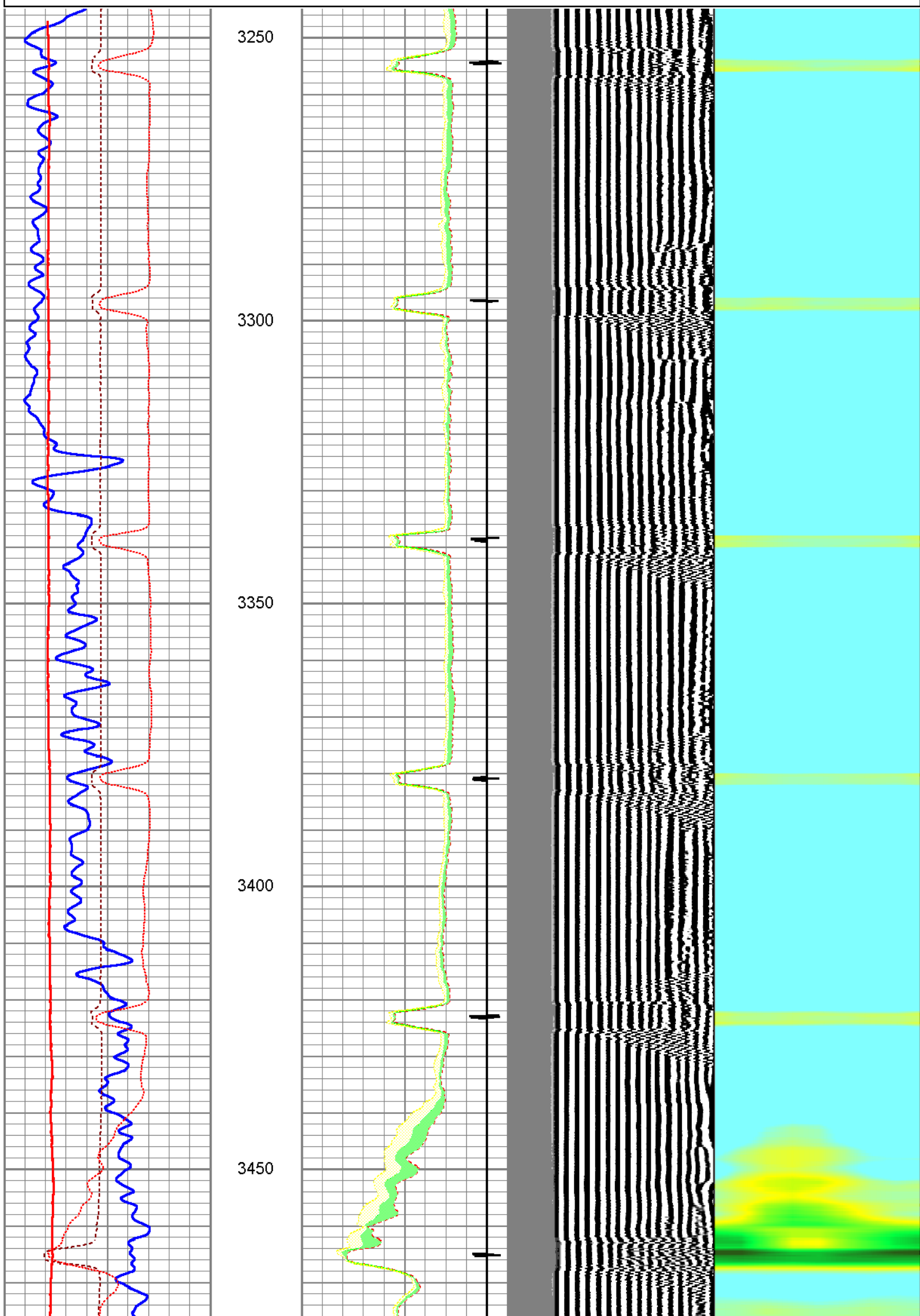
Main Pass

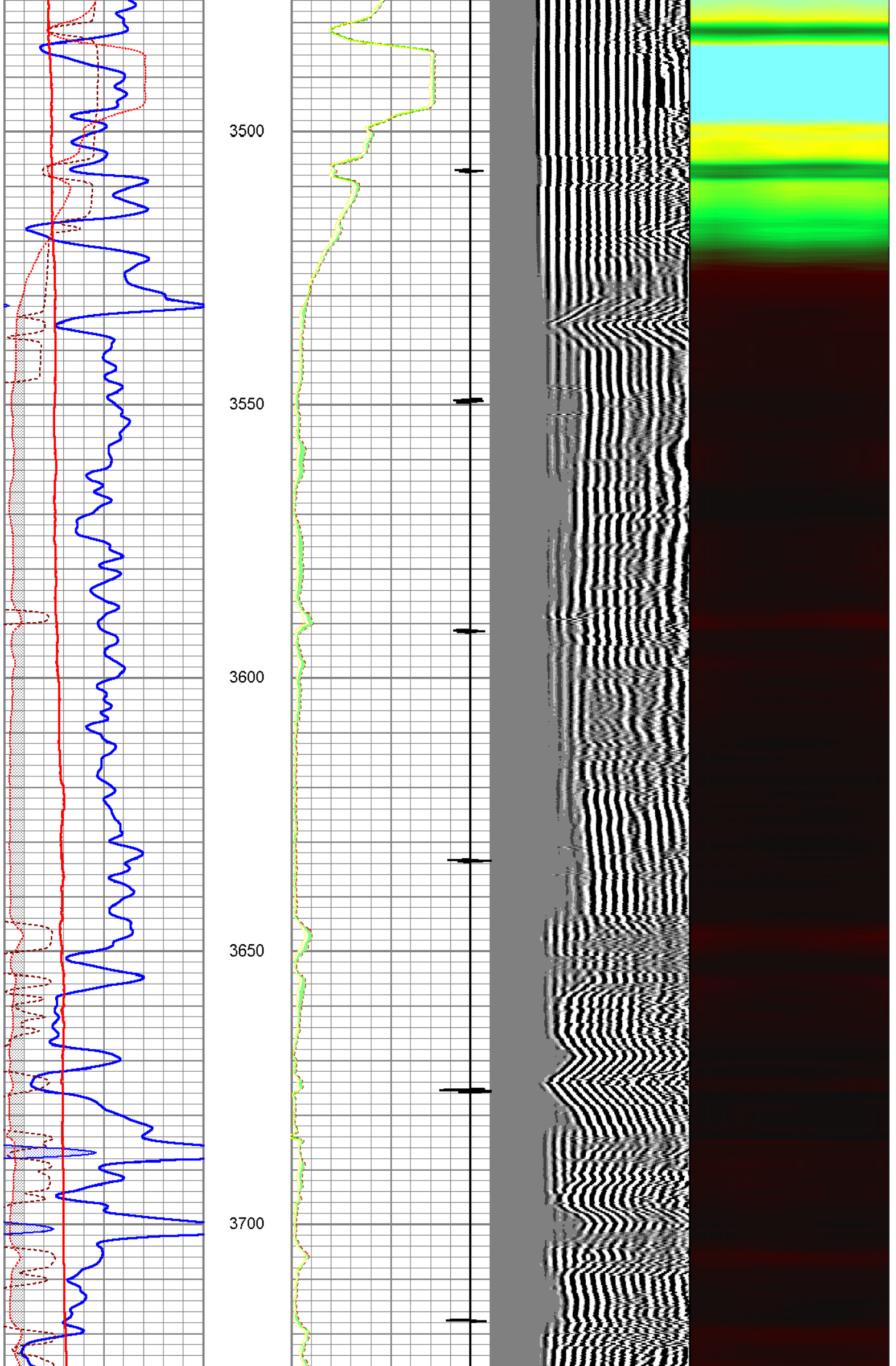
Database File roberts-etheridge-trust1-16.db
 Dataset Pathname grscbl/pass12
 Presentation Format sectorcod
 Dataset Creation Mon Jul 20 11:39:52 2015
 Charted by Depth in Feet scaled 1:240

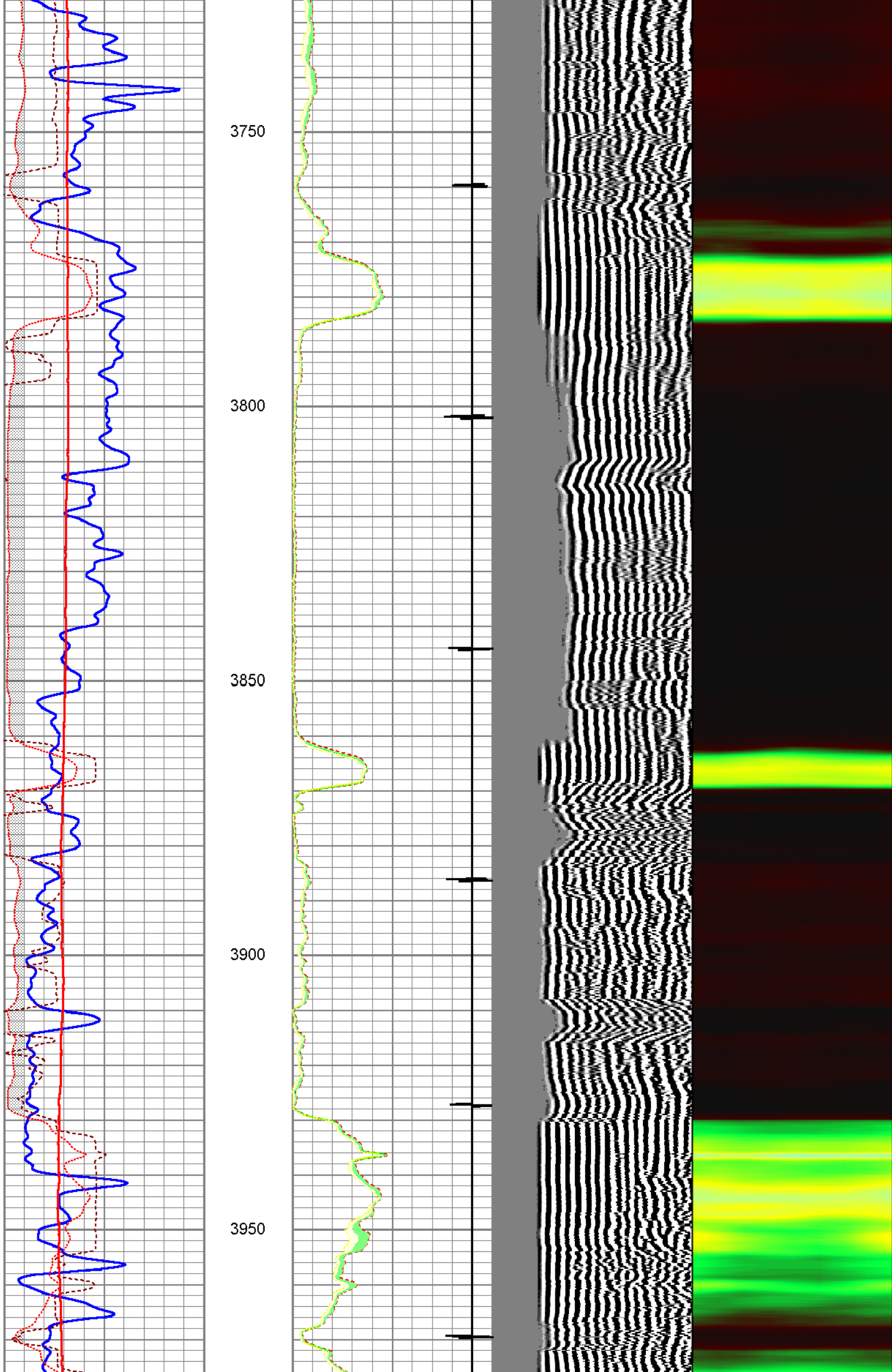
0	GR (GAPI)	200	0	AMPMAX	100	200	WVF5FT	1200	1	Sector Map	8
400	TT3ET (usec)	200	0	AMPAVG	100						

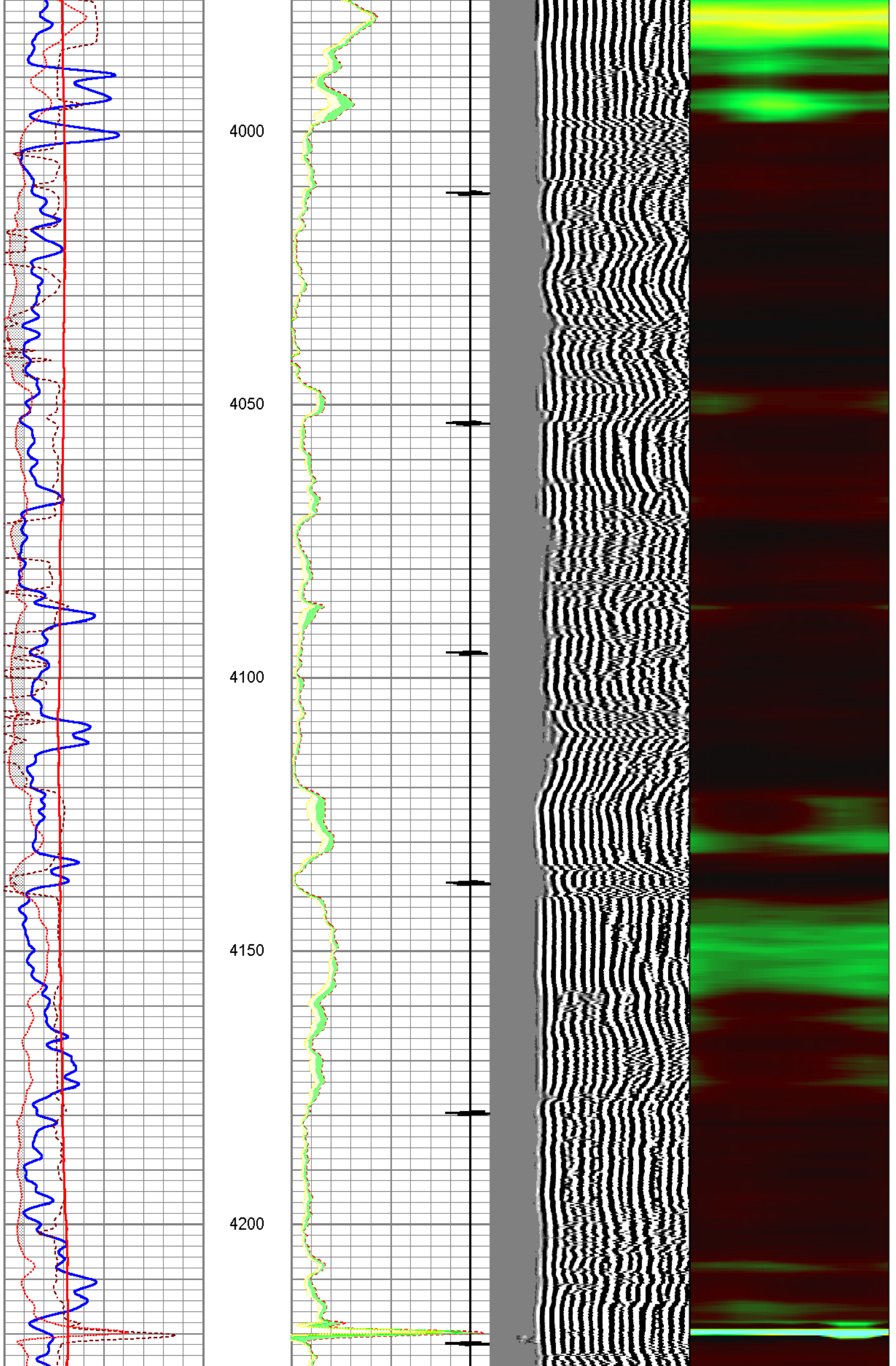
100	TTST (dsec)	200
0	AMP3FT (mV)	100
0	DEVI (deg)	10

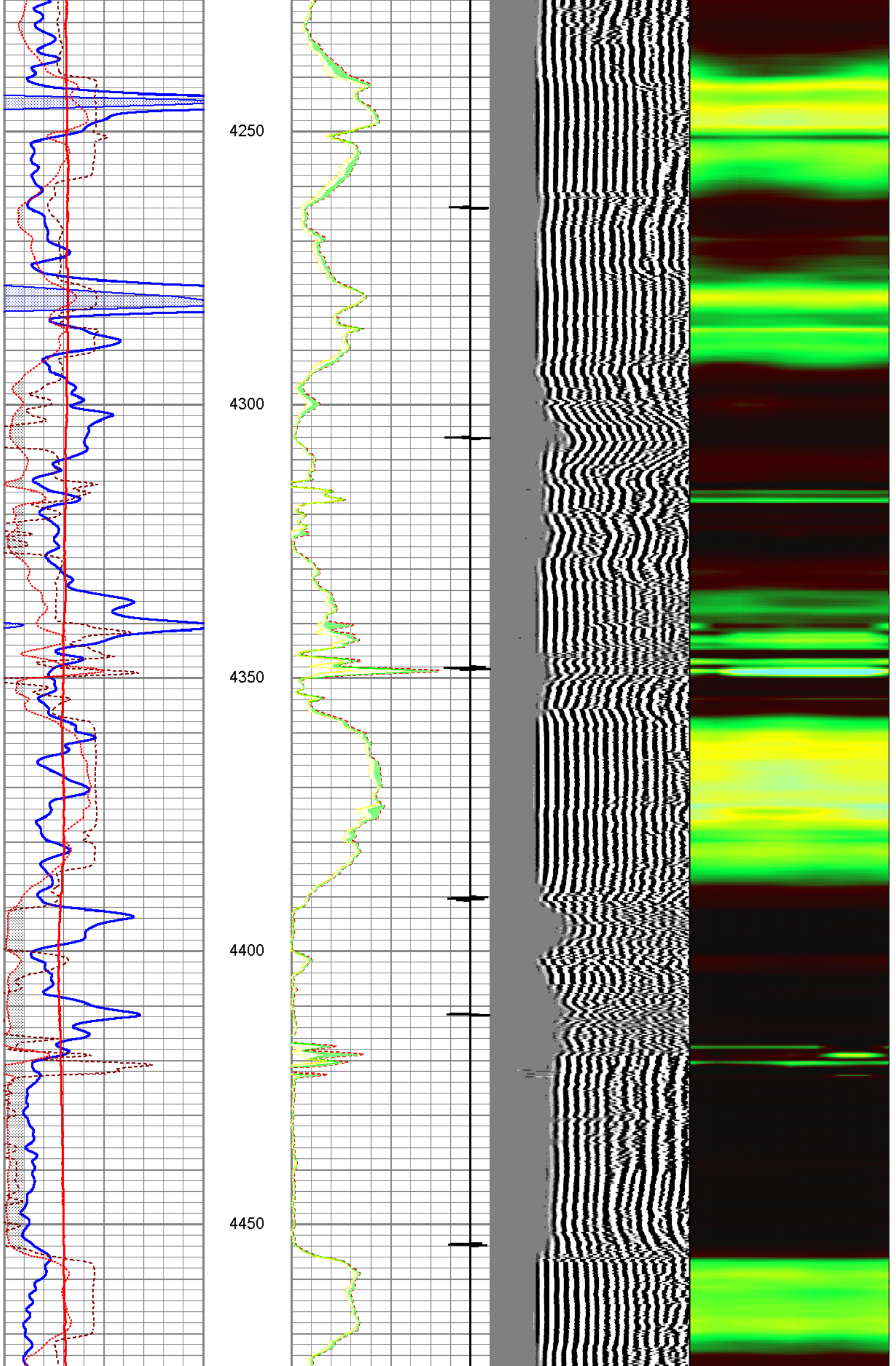
0	AMP AVG	100
0	AMP MIN	100
18	CCL	-2

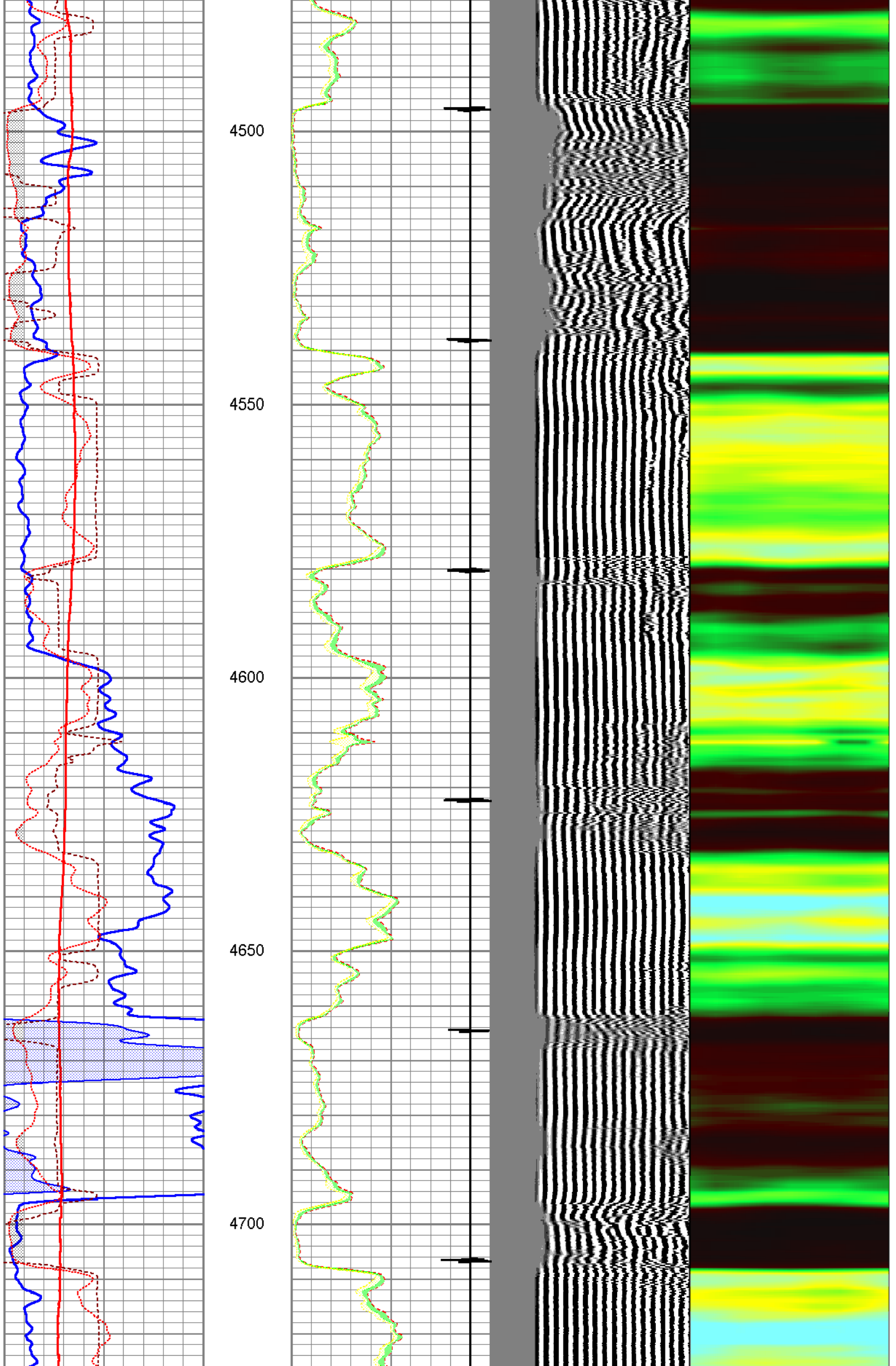


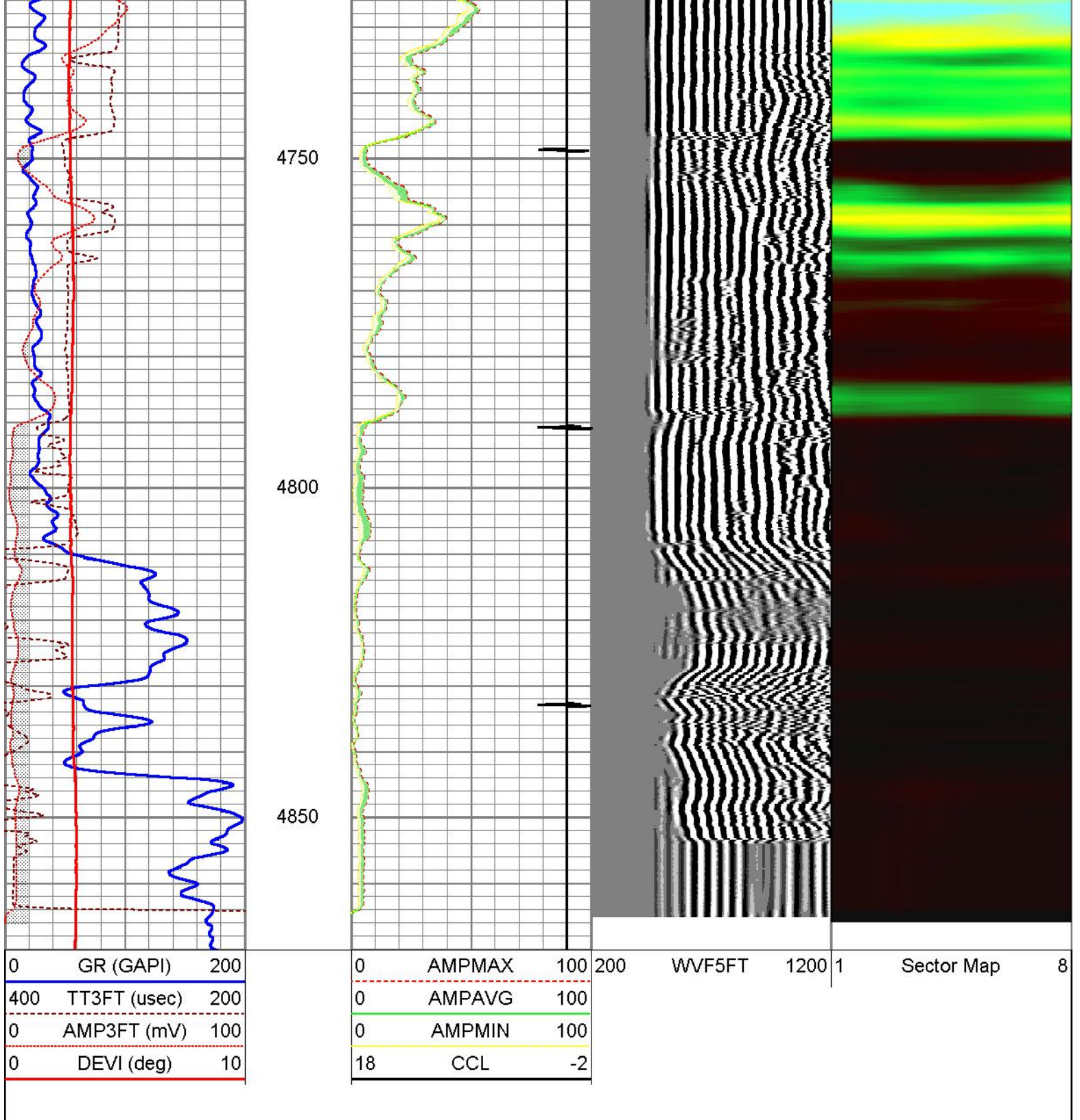






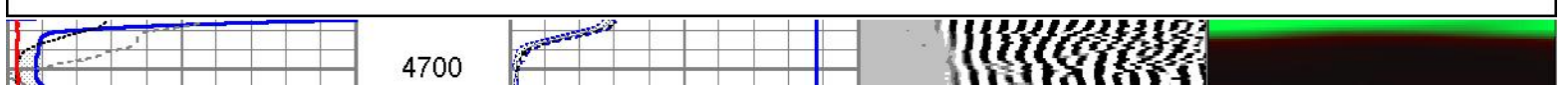
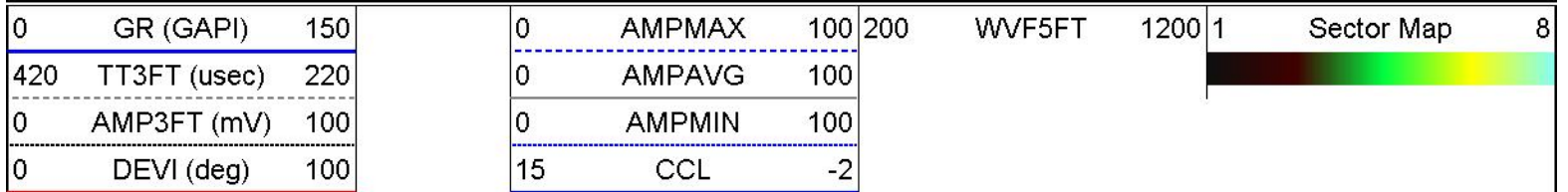


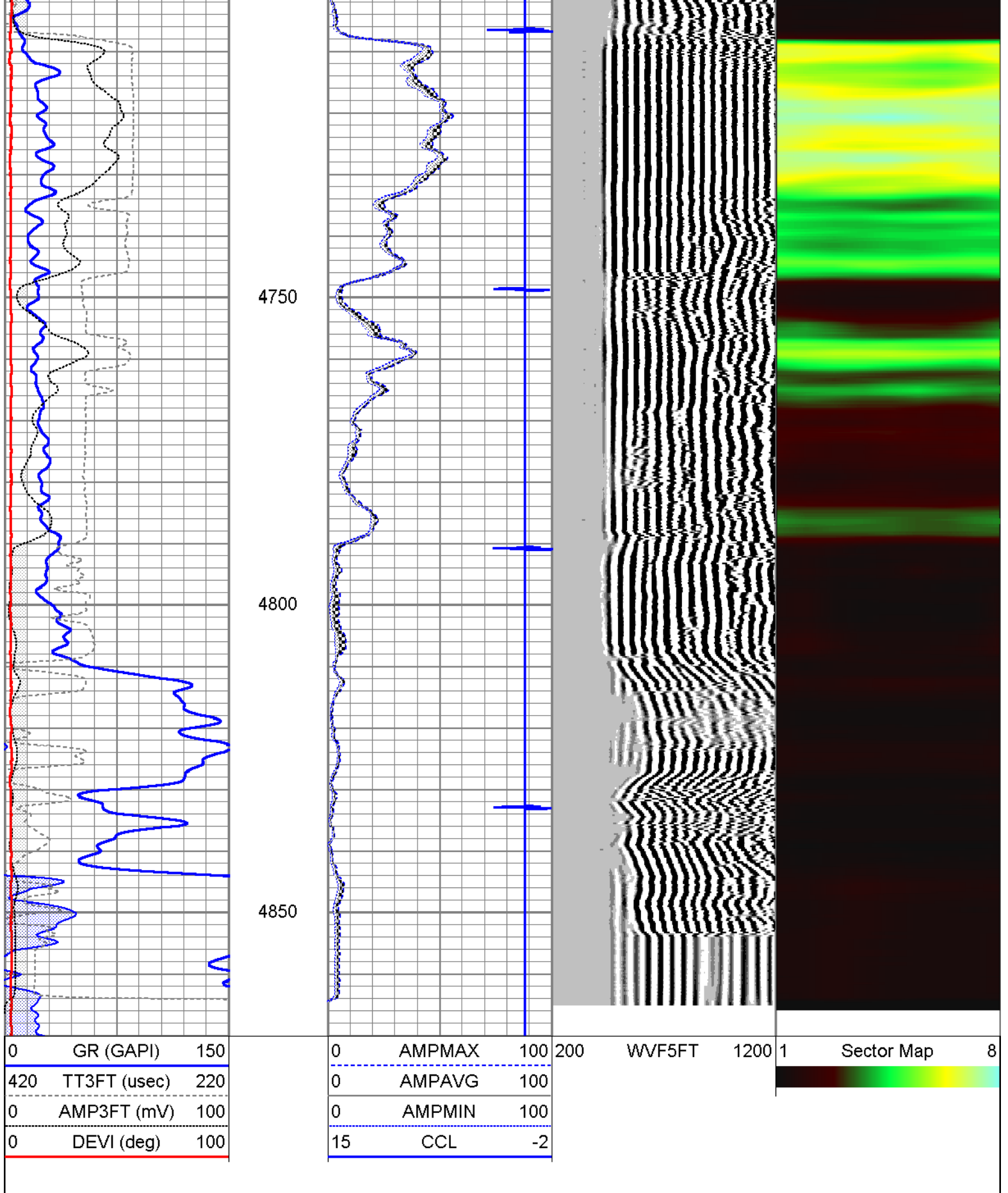




Repeat Section

Database File roberts-etheridge-trust1-16.db
 Dataset Pathname grscbl/pass11.1
 Presentation Format sector
 Dataset Creation Mon Jul 20 11:42:21 2015
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File roberts-etheridge-trust1-16.db
 Dataset Pathname grscl/pass12
 Dataset Creation Mon Jul 20 11:39:52 2015

Gamma Ray Calibration Report

Serial Number: 275D_with_INC
 Tool Model: 275D_INC
 Performed: Fri Jul 01 16:46:58 2011

Calibrator Value: 200.0 GAPI

Background Reading: 50.0 cps
 Calibrator Reading: 250.0 cps

Calibrator Reading: 250.0 cps
 Sensitivity: 1.2500 GAPI/cps

Inclinometer Calibration Report

Performed: Thu Sep 02 13:30:15 2010

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-3589.40	3580.00	-1.00	1.00	gee
Y Accelerometer	-3671.40	3520.20	-1.00	1.00	gee
Z Accelerometer	24.60	3577.40	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number: 080321
 Tool Model: Probe
 Calibration Casing Diameter: 5.500 in
 Calibration Depth: 3322.446 ft

Master Calibration, performed Mon Jul 20 09:30:02 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.955	1.000	71.921	75.322	-0.002
CAL	0.010	1.229				
5'	0.015	0.844	1.000	71.921	85.590	-0.280
SUM						
S1	0.015	0.995	0.000	72.000	73.539	-1.136
S2	0.019	1.064	0.000	72.000	68.883	-1.293
S3	0.014	1.055	0.000	72.000	69.190	-0.978
S4	0.014	0.973	0.000	72.000	75.104	-1.086
S5	0.014	0.886	0.000	72.000	82.575	-1.185
S6	0.014	0.866	0.000	72.000	84.489	-1.198
S7	0.013	0.881	0.000	72.000	83.001	-1.118
S8	0.013	0.912	0.000	72.000	80.057	-1.033

Internal Reference Calibration, performed Thu Dec 04 16:30:55 2008:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.010	1.229	1.000	0.000

Air Zero Calibration, performed Tue Apr 24 10:12:12 2012:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
WVFS8	11.63		RBT-Probe (080321) Prototype Probe Radii Bond Tool with Digital Telemetry	8.33	2.75	90.00
WVFS7	11.63					
WVFS6	11.63					
WVFS5	11.63					
WVFS4	11.63					
WVFS3	11.63					
WVFS2	11.63					
WVFS1	11.63					
WVFCAL	11.63					
WVF3FT	11.63					
WVF5FT	10.63					
			CENT-275 2 3/4" Centralizer	2.94	2.75	10.00
CCL	3.50					
			GR-275D_INC (275D_with_INC) 2-3/4" GR-CCL with Inclination	4.50	2.75	
ACCZ	1.83					
ACCY	1.83					
ACCX	1.83					
GR	0.83					

Dataset: roberts-etheridge-trust1-16.db: field/well/grscbl/pass12
Total length: 18.71 ft
Total weight: 110.00 lb

Total weight: 110.00 lb
O.D.: 2.75 in



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Res. Inc.
 2020 N. Tyler Rd. Ste. 106
 Wichita, KS 67212
 ATTN: Kent Roberts

16-32s-12w Barber Co. KS

Etheridge Trust 1-16

Job Ticket: 57881 **DST#: 1**
 Test Start: 2015.07.07 @ 08:26:47

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 10:53:17
 Time Test Ended: 16:45:02
 Interval: **4380.00 ft (KB) To 4480.00 ft (KB) (TVD)**
 Total Depth: 4480.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1639.00 ft (KB)
 1627.00 ft (CF)
 KB to GR/CF: 12.00 ft

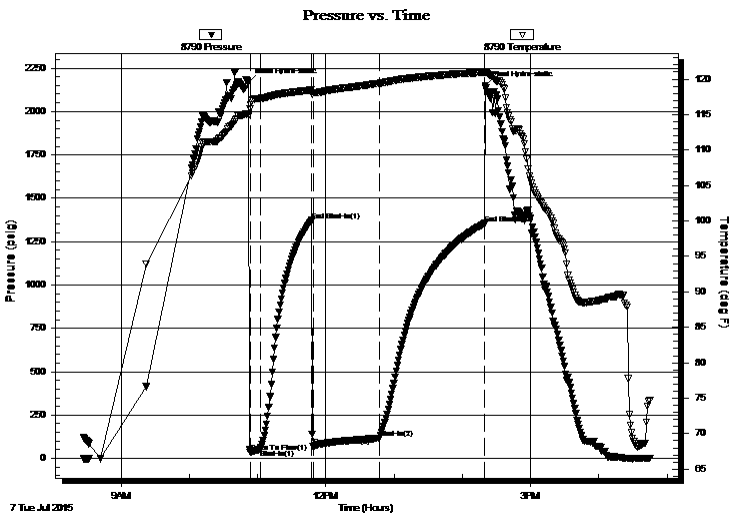
Serial #: 8790

Inside

Press @ Run Depth: 116.29 psig @ 4387.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.07 End Date: 2015.07.07 Last Calib.: 2015.07.07
 Start Time: 08:26:52 End Time: 16:45:01 Time On Btm: 2015.07.07 @ 10:51:47
 Time Off Btm: 2015.07.07 @ 14:20:32

TEST COMMENT: IF: Strong blow . 2" - BOB @ 4 1/2min.
 IS: No blow
 FF: Strong blow . 1" - BOB @ 5min.
 FS: No blow

PRESSURE SUMMARY



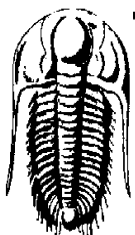
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.85	115.15	Initial Hydro-static
2	36.69	115.80	Open To Flow (1)
11	52.12	117.27	Shut-In(1)
56	1371.80	118.46	End Shut-In(1)
57	67.42	118.09	Open To Flow (2)
115	116.29	119.39	Shut-In(2)
208	1355.03	120.94	End Shut-In(2)
209	2150.08	120.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOCM 11%g, 7%o, 82%m	0.61
90.00	Drig mud 100%m	0.46

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Roberts Res. Inc.
2020 N. Tyler Rd. Ste. 106
Wichita, KS 67212
ATTN: Kent Roberts

16-32s-12w Barber Co. KS
Etheridge Trust 1-16
Job Ticket: 57881 **DST#: 1**
Test Start: 2015.07.07 @ 08:26:47

GENERAL INFORMATION:

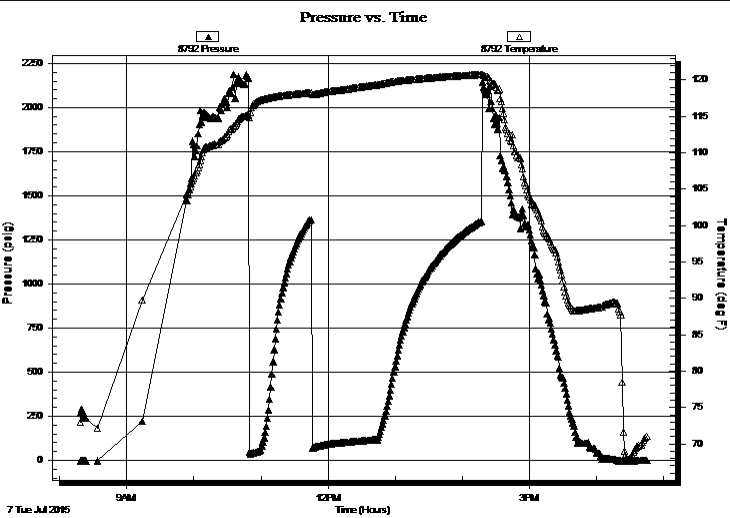
Formation: Miss.			Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:	0.00 ft (KB)		Tester: Ryan Reynolds
Time Tool Opened: 10:53:17			Unit No: 68
Time Test Ended: 16:45:02			
Interval: 4380.00 ft (KB) To 4480.00 ft (KB) (TVD)		Reference Elevations: 1639.00 ft (KB)	
Total Depth: 4480.00 ft (KB) (TVD)		1627.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 12.00 ft	

Serial #: 8792

Outside

Press@RunDepth:	psig @ 4387.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2015.07.07	End Date:	2015.07.07
Start Time:	08:18:52	End Time:	16:45:16
		Last Calib.:	2015.07.07
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Strong blow . 2" - BOB @ 4 1/2min.
IS: No blow
FF: Strong blow . 1" - BOB @ 5min.
FS: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOCM 11%g, 7%o, 82%m	0.61
90.00	Drig mud 100%m	0.46

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Res. Inc.
2020 N. Tyler Rd. Ste. 106
Wichita, KS 67212
ATTN: Kent Roberts

16-32s-12w Barber Co. KS
Etheridge Trust 1-16
Job Ticket: 57881 **DST#: 1**
Test Start: 2015.07.07 @ 08:26:47

Mud and Cushion Information

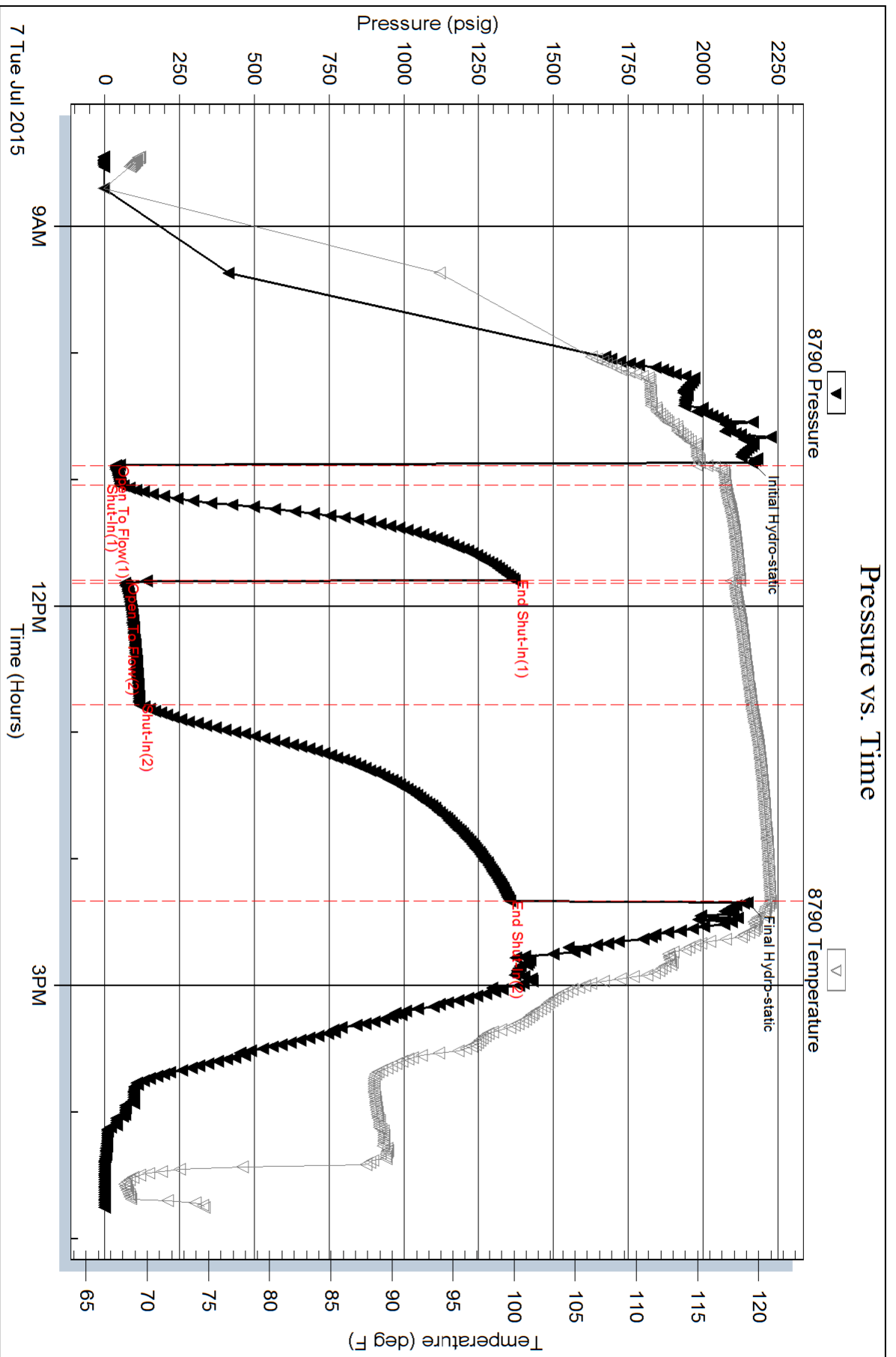
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	5000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.08 inches			

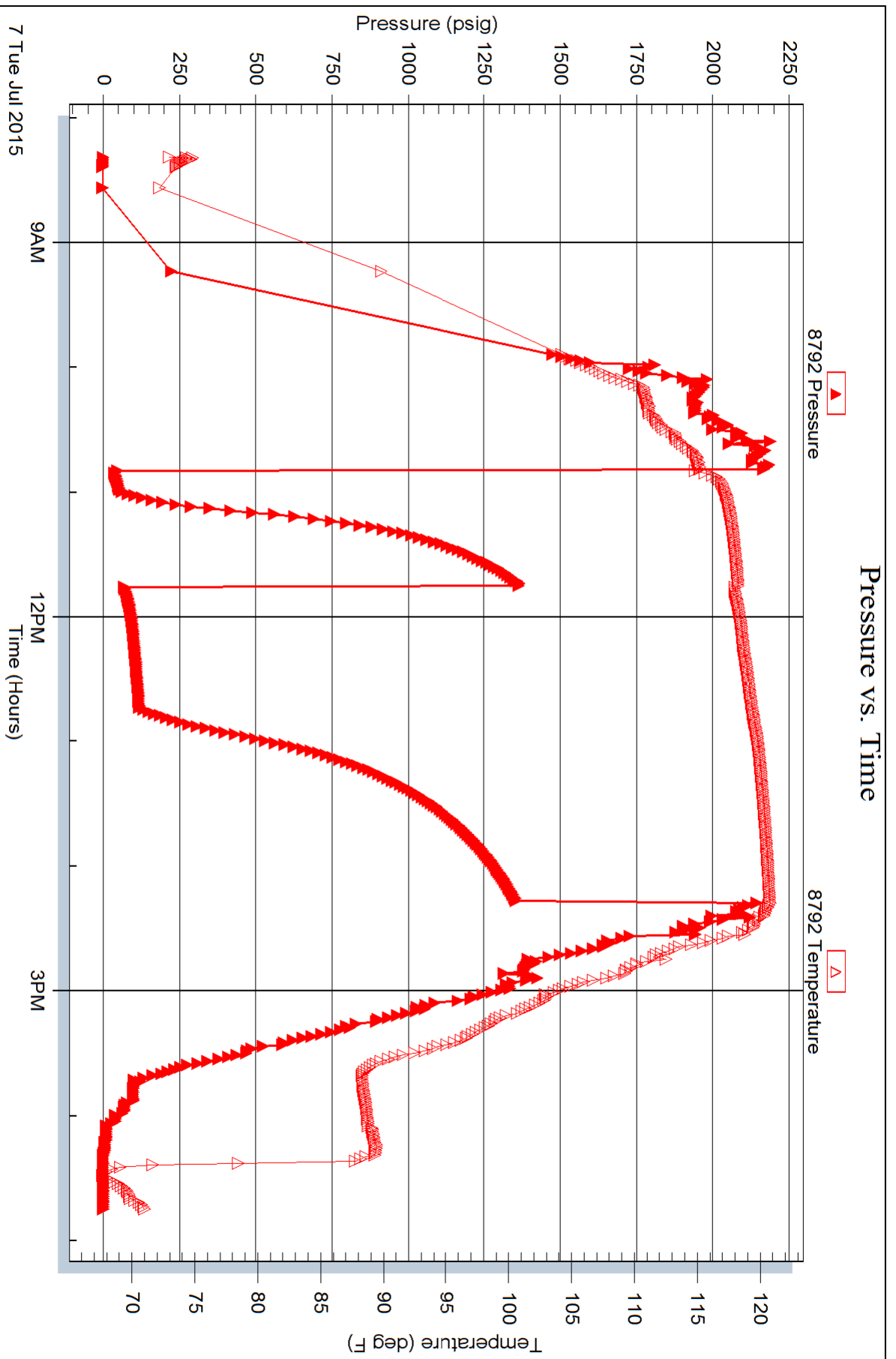
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	GOCM 11%g, 7%o, 82%m	0.615
90.00	Drig mud 100%m	0.463

Total Length: 215.00 ft Total Volume: 1.078 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Roberts Res. Inc.
2020 N. Tyler Rd. Ste. 106
Wichita, KS 67212
ATTN: Kent Roberts

16-32s-12w Barber Co. KS

Etheridge Trust 1-16

Job Ticket: 57882 **DST#: 2**
Test Start: 2015.07.08 @ 19:26:10

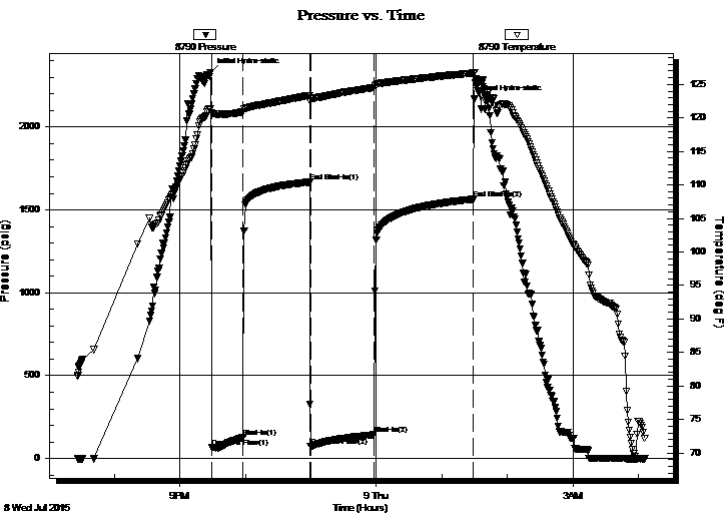
GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 21:28:55
Time Test Ended: 04:06:40
Interval: **4698.00 ft (KB) To 4710.00 ft (KB) (TVD)**
Total Depth: 4710.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Reynolds
Unit No: 68
Reference Elevations: 1639.00 ft (KB)
1627.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8790

Press@RunDepth: 144.03 psig @ 4699.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.07.08 End Date: 2015.07.09 Last Calib.: 2015.07.09
Start Time: 19:26:15 End Time: 04:06:40 Time On Btm: 2015.07.08 @ 21:27:55
Time Off Btm: 2015.07.09 @ 01:29:55

TEST COMMENT: IF: Strong blow . BOB immed. GTS @ 6min.
IS: Weak blow . surf. - 1"
FF: Strong blow . BOB @ 15sec. Guaged gas.
FS: Fair blow . surf. - 5".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2329.60	121.36	Initial Hydro-static
1	67.36	120.72	Open To Flow (1)
30	126.73	120.90	Shut-In(1)
91	1667.21	123.34	End Shut-In(1)
92	73.33	122.94	Open To Flow (2)
150	144.03	124.53	Shut-In(2)
242	1564.57	126.69	End Shut-In(2)
242	2168.05	126.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCW 10%o, 90%w	0.44
95.00	OCW 25%o, 75%w	0.47
62.00	GMWCO 41%g, 6%m, 10%w, 43%o	0.35
63.00	GMWCO 10%g, 5%m, 6%w, 79%o	0.35

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	27.00	65.68
Last Gas Rate	0.38	22.00	133.34
Max. Gas Rate	0.25	58.00	114.86



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Res. Inc.

16-32s-12w Barber Co. KS

2020 N. Tyler Rd. Ste. 106
Wichita, KS 67212

Etheridge Trust 1-16

Job Ticket: 57882

DST#: 2

ATTN: Kent Roberts

Test Start: 2015.07.08 @ 19:26:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

76000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.08 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	OCW 10%o, 90%w	0.443
95.00	OCW 25%o, 75%w	0.467
62.00	GMWCO 41%g, 6%m, 10%w, 43%o	0.347
63.00	GMWCO 10%g, 5%m, 6%w, 79%o	0.353

Total Length: 310.00 ft

Total Volume: 1.610 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Res. Inc.

16-32s-12w Barber Co. KS

2020 N. Tyler Rd. Ste. 106
Wichita, KS 67212

Etheridge Trust 1-16

Job Ticket: 57882

DST#: 2

ATTN: Kent Roberts

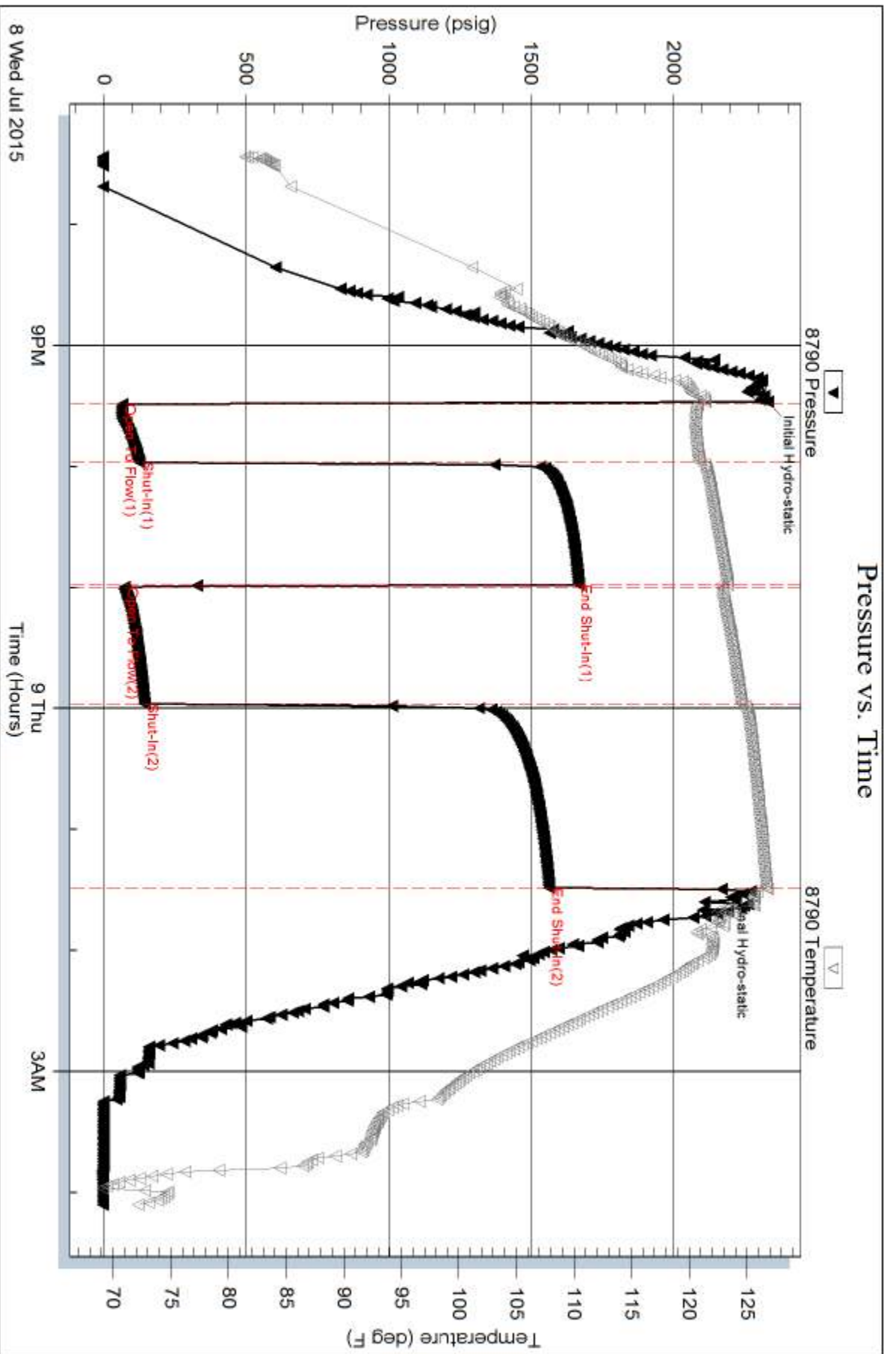
Test Start: 2015.07.08 @ 19:26:10

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.25	27.00	65.68
1	20	0.25	46.00	95.82
1	30	0.25	58.00	114.86
2	10	0.38	26.00	147.99
2	20	0.38	32.00	169.97
2	30	0.38	31.00	166.31
2	40	0.38	28.00	155.32
2	50	0.38	25.00	144.33
2	60	0.38	22.00	133.34





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Res. Inc.
 2020 N. Tyler Rd. Ste. 106
 Wichita, KS 67212
 ATTN: Kent Roberts

16-32s-12w Barber Co. KS

Etheridge Trust 1-16

Job Ticket: 57883 **DST#: 3**
 Test Start: 2015.07.09 @ 14:08:28

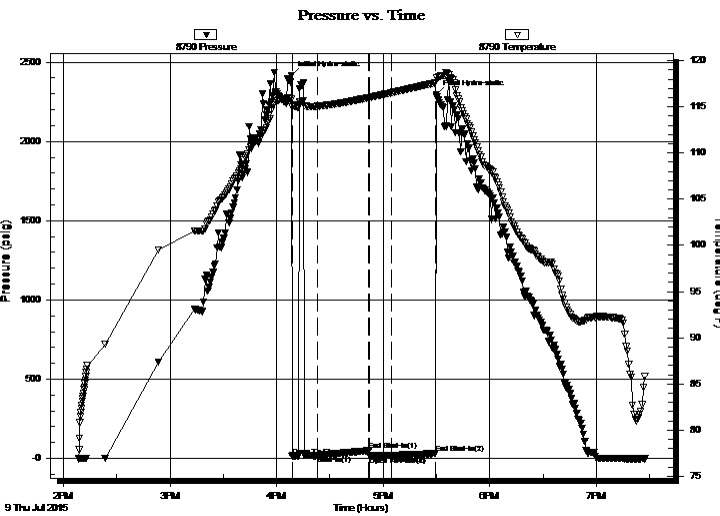
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 16:08:43
 Time Test Ended: 19:27:43
 Interval: **4724.00 ft (KB) To 4744.00 ft (KB) (TVD)**
 Total Depth: 4744.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1639.00 ft (KB)
 1627.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8790

Press @ RunDepth: 19.13 psig @ 4725.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.09 End Date: 2015.07.09 Last Calib.: 2015.07.09
 Start Time: 14:08:33 End Time: 19:27:42 Time On Btm: 2015.07.09 @ 16:08:28
 Time Off Btm: 2015.07.09 @ 17:29:58

TEST COMMENT: IF: Very weak surf. - Dead @ 5 (flshd tool) Very weak surf.
 IS: No blow.
 FF: No blow.
 FS: No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2413.76	115.83	Initial Hydro-static
1	14.84	114.96	Open To Flow (1)
15	17.15	115.05	Shut-In(1)
44	49.23	115.99	End Shut-In(1)
44	16.17	116.00	Open To Flow (2)
57	19.13	116.52	Shut-In(2)
81	31.23	117.60	End Shut-In(2)
82	2294.78	118.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100% m	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Res. Inc.

16-32s-12w Barber Co. KS

2020 N. Tyler Rd. Ste. 106
Wichita, KS 67212

Etheridge Trust 1-16

Job Ticket: 57883

DST#: 3

ATTN: Kent Roberts

Test Start: 2015.07.09 @ 14:08:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

5000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.08 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

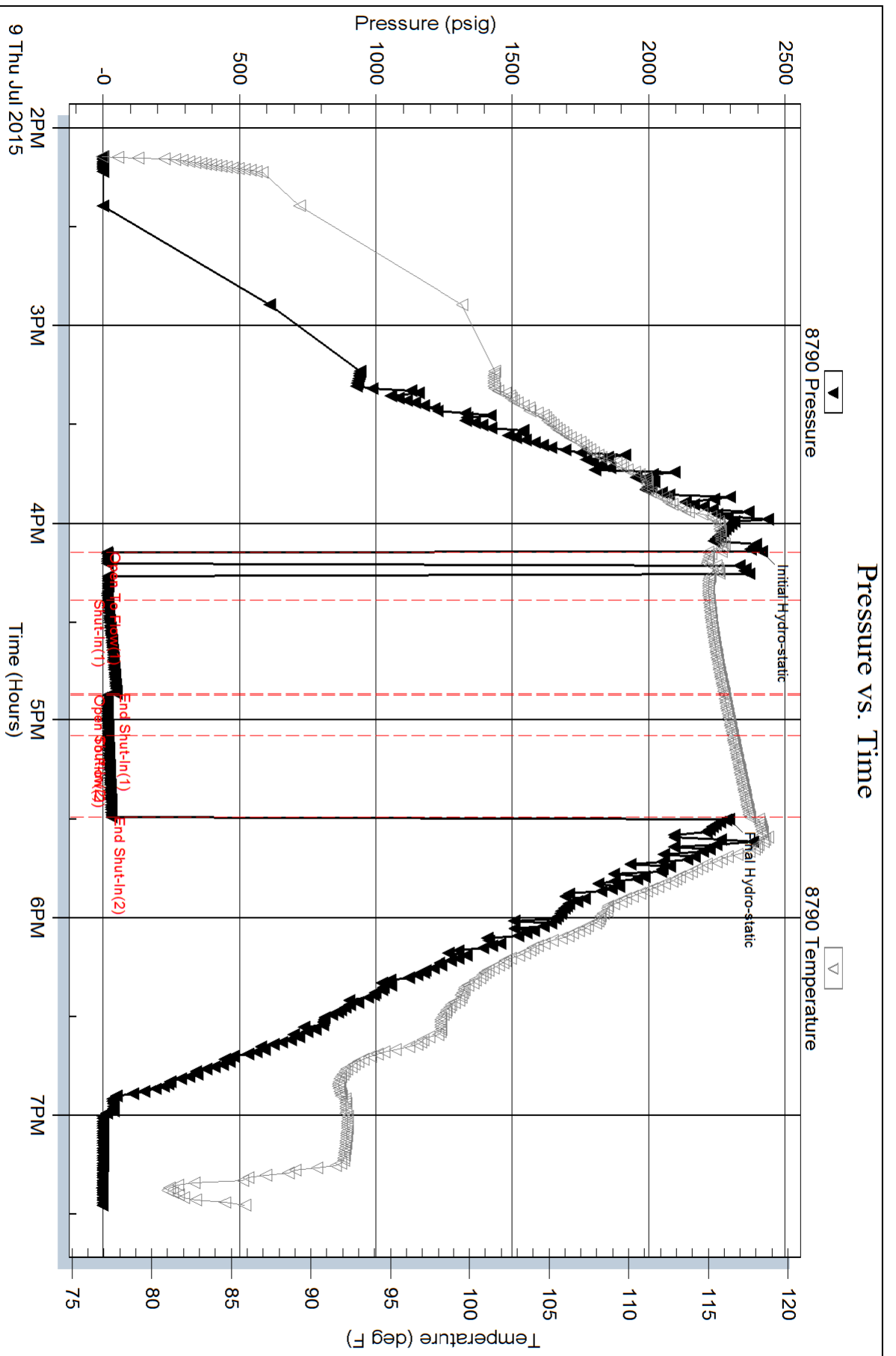
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



NATURAL GAS ANALYSIS REPORT
GPA 2145-09

Sampled by:
Trilobite Testing, Inc.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 785-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-482-2371
Fax: 620-626-7108

Lab Number: 20151724
Sample From: ETHRIDGE TRUST 1-16
Producer: ROBERTS RESOURCES
Date:
Time:
Sampler: RYAN
Source: DST 2

Analyzed: 07/15/15
Pressure:
Temperature:
Location: 16-32-12
County: BARBER
State: KANSAS
Formation: VIOLA

	Mole %	GPM
Helium	He: 0.572	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.662	0.000
Carbon Dioxide	CO2: 0.030	0.000
Methane	C1: 74.772	0.000
Ethane	C2: 6.098	2.287
Propane	C3: 3.896	1.461
Iso Butane	iC4: 0.349	0.107
Normal Butane	nC4: 1.270	0.404
Iso Pentane	iC5: 0.242	0.066
Normal Pentane	nC5: 0.428	0.118
Hexanes Plus	C6+: 0.681	0.156

TOTAL: 100.000 4.599
Z Fact: 0.9998
SP.GR.: 0.7223

BTU (SAT): 1078.3 @ 14.73 psia

BTU (DRY): 1097.4 @ 14.73 psia

OCTANE RATING: 109.3

COMMENTS:

0.000