

Company				URSA OPERATING CO., LLC.											
Well				WATSON RANCH B 33B-17-07-95											
Field				PARACHUTE											
County				GARFIELD State		CO									
Permanent Datum Log Measured From Drilling Measured From				Company				URSA OPERATING CO., LLC.							
				Well				WATSON RANCH B 33B-17-07-95							
				Field				PARACHUTE							
				County				GARFIELD		State		CO			
Date @ Time Logged				03 JUNE 2015				Type Fluid in Hole				WATER			
Run No.				ONE				Density of Fluid				8.4#			
Depth - Driller				7189'				Fluid Level				FULL			
Depth - Logger				6950'				Cement Top Est. Logged				SEE LOG			
Bottom - Logged Interval				6950'				Equipment / Location				10971668 / G.J.			
Top - Log Interval				1500'				Recorded by				D. SOLIS			
Max. Recorded Temp.				216 DEG F				Witnessed by				R. TOLLE			
CEMENTING DATA				Surface				Protection				Production			
				String				String				String			
				N/A				N/A				N/A			
Date / Time Cemented				N/A				N/A				N/A			
Primary / Squeeze															
Expected Compressive Strength				psi@ hrs				psi@ hrs				psi@ hrs			
Cement Volume															
Cement Type / Weight				/				/				/			
Formulation															
Mud Type / Mud Wgt.				/				/				/			
Borehole Record								Casing & Tubing Record							
Run Number		Bit		From		To		Size		Weight		From		To	
ONE		12.25"		SURFACE		1800'		8.625"		32.0#		SURFACE		1800'	
TWO		7.875"		1800'		7189'		4.5"		11.6#		SURFACE		7189'	

<<< Fold Here >>>

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

HES CBL LOG DATED: 03 JUNE 2015 IS THE PRIMARY DEPTH REFERENCE FOR THIS WELL.

GR-RMT-CBL RAN IN COMBINATION.

LOG INTERVALS PER CUSTOMER REQUEST.

SHORT JOINTS @: 3007' - 3017', 5566' - 5576', AND 6463' - 6473'.

\*\*\*THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES.\*\*\*

Service Ticket No.	902453399	API No.	05-045-22808-0000	PGM Ver	14.11.12001
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
TELEMETRY		CEMENT BOND TOOL		RESERVOIR MONITOR TOOL	
Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	11224503	Serial No.	11002214	Serial No.	12095949
Model No.	TTTC-U-002	Model No.	RBT-004	Model No.	RMTI-A
Diameter	1.688"	Diameter	3.125"	Diameter	2.125"
LOGGING DATA					
General Data					
Pass	Depths		Well Head	Speed	Logging Run Comments
No	From	To	Pressure	Ft/Min	

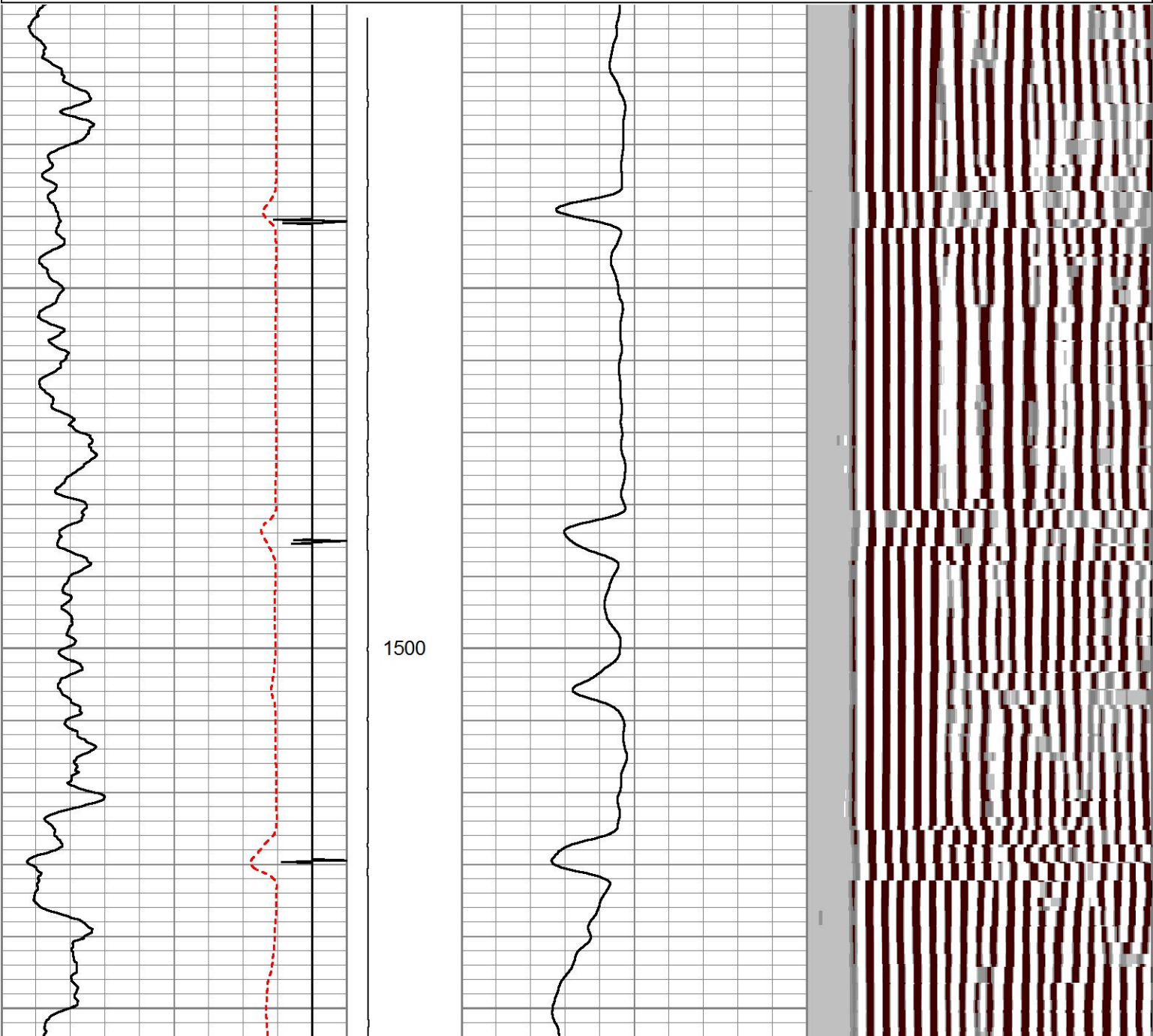
ONE	6950'	1500'	0	REC	MAIN LOG SECTION			
	GAMMA RAY		TRAVEL TIME		AMPLITUDE		MSG	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	200	370	170	0	100	200	1200
DIRECTIONAL INFORMATION								
Maximum Deviation		N/A	deg. @		N/A	KOP		N/A

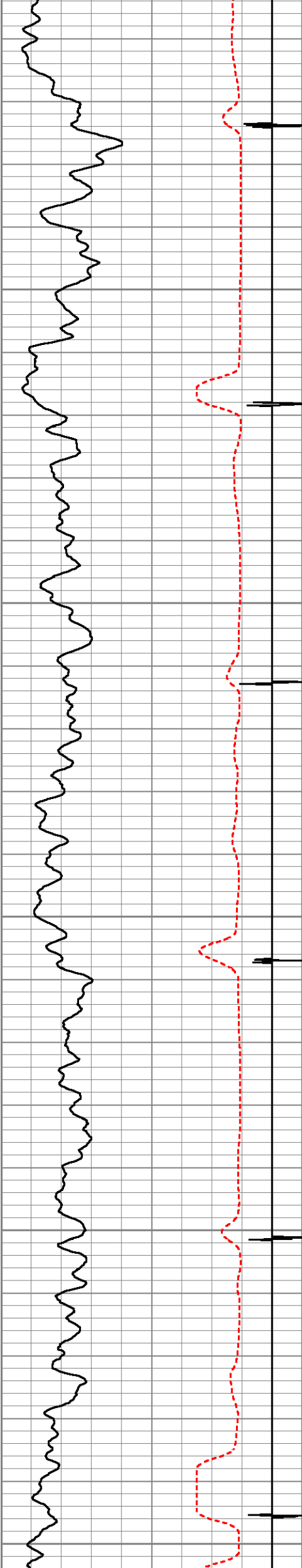
HALLIBURTON

MAIN LOG SECTION

5" = 100'

Database File		watson_b_33b_combo.db							
Dataset Pathname		MAIN1							
Presentation Format		CBL_RB~1							
Dataset Creation		Wed Jun 03 16:28:12 2015							
Charted by		Depth in Feet scaled 1:240							
370	TRAVEL TIME (usec)	170	LTEN	0	AMP AMPLITUDE (mV)	10	200	MSG	1200
-5400	Collar Locator	600	0	(lb)3000	0	AMPLITUDE (mV)	100	<div><div></div><div></div><div></div><div></div></div>	
0	Gamma Ray (GAPI)	200							

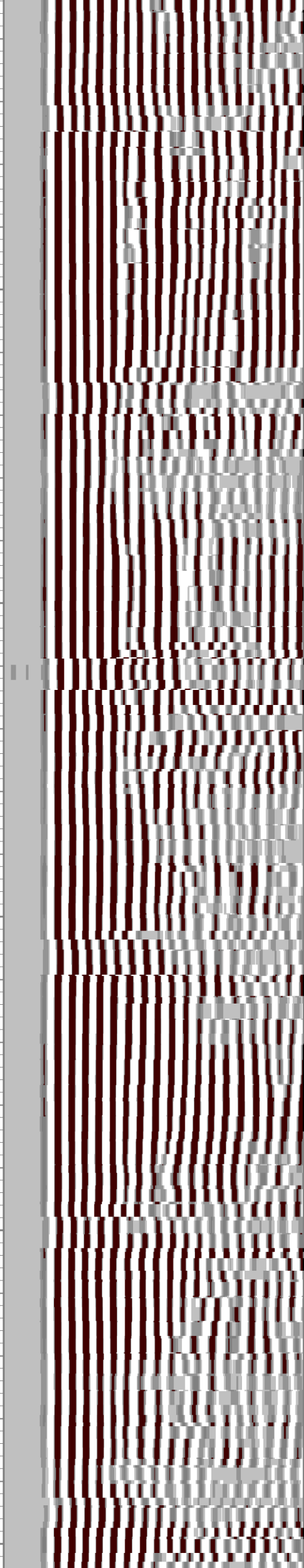
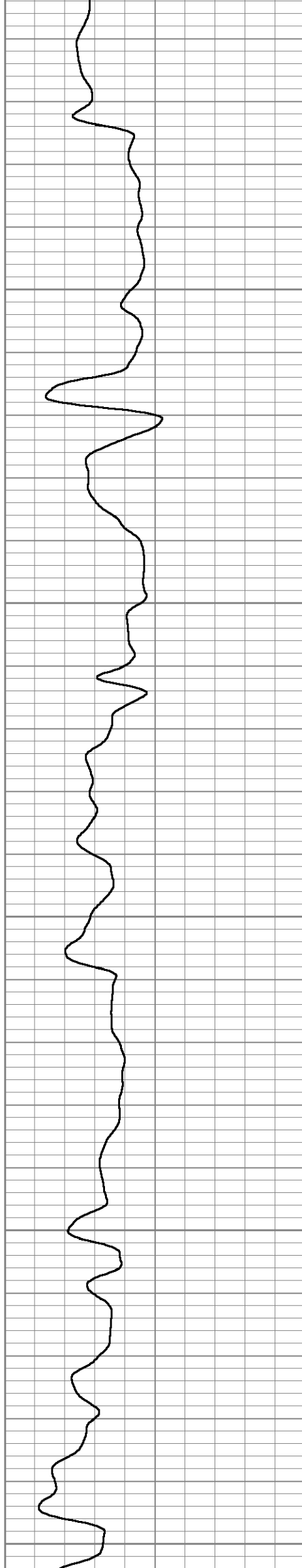




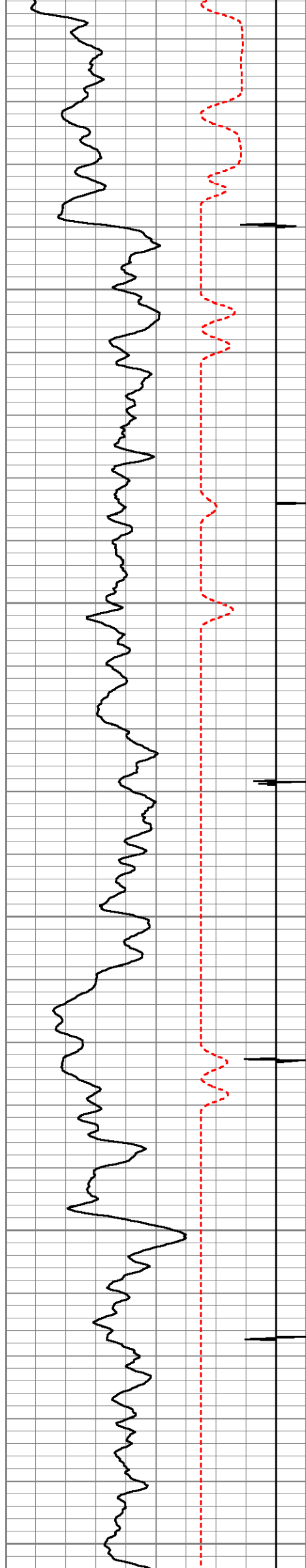
1600

1700

1800

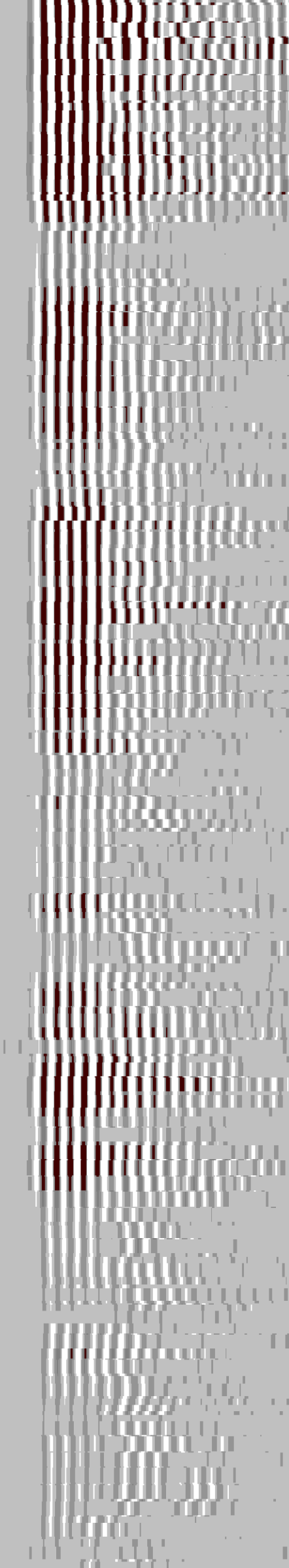
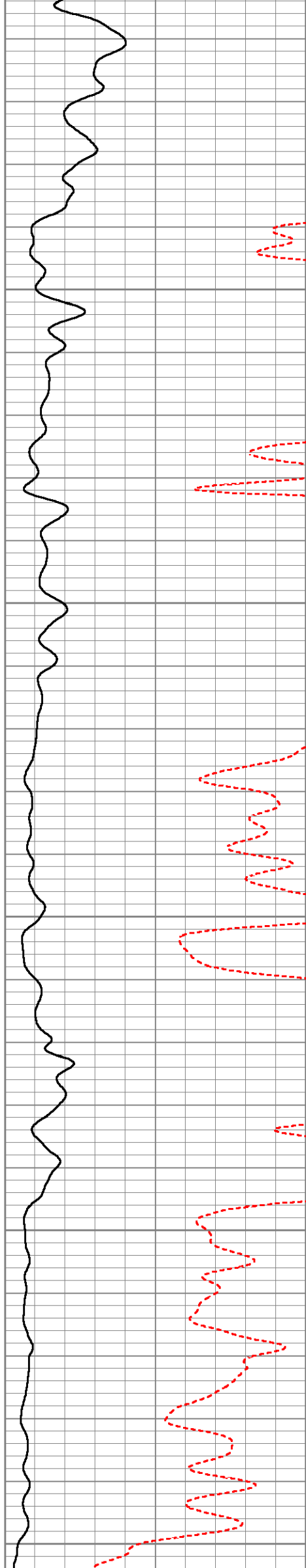


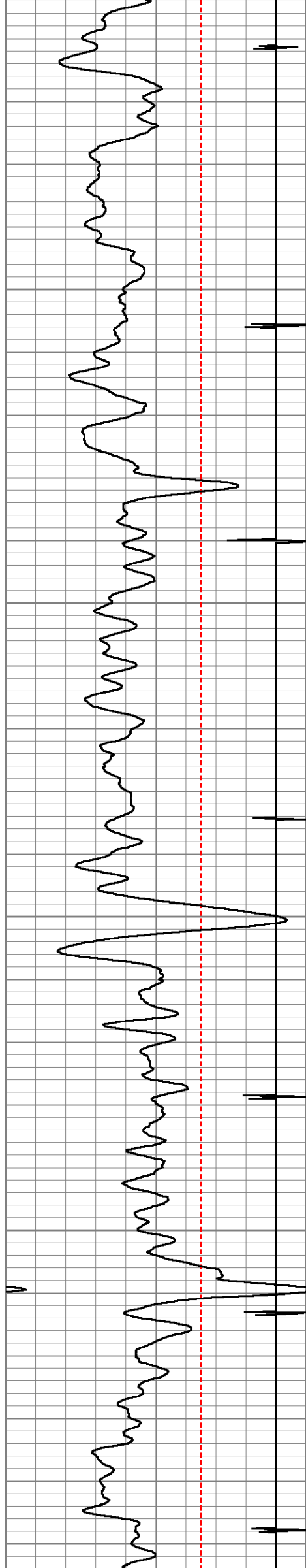




1900

2000

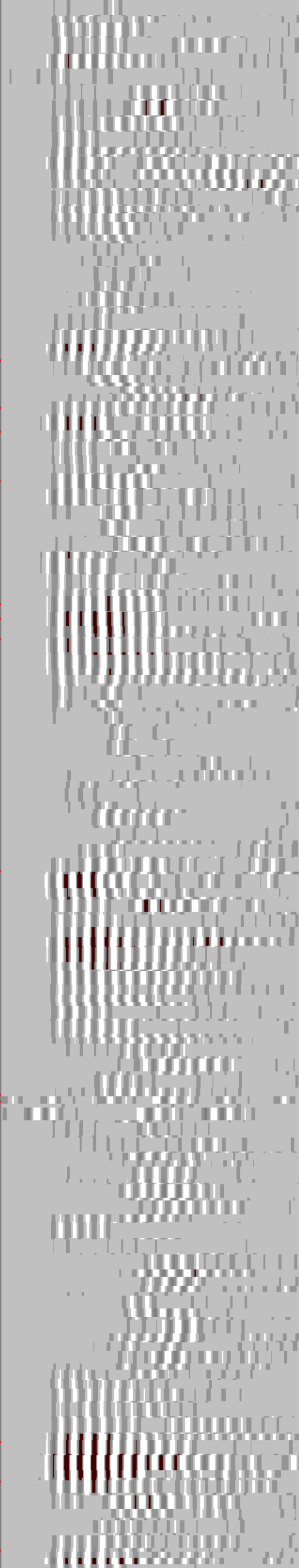
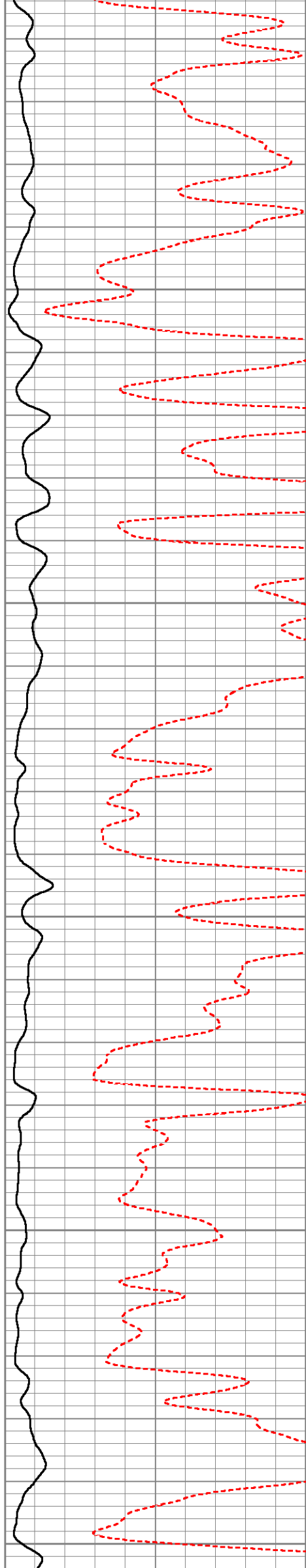


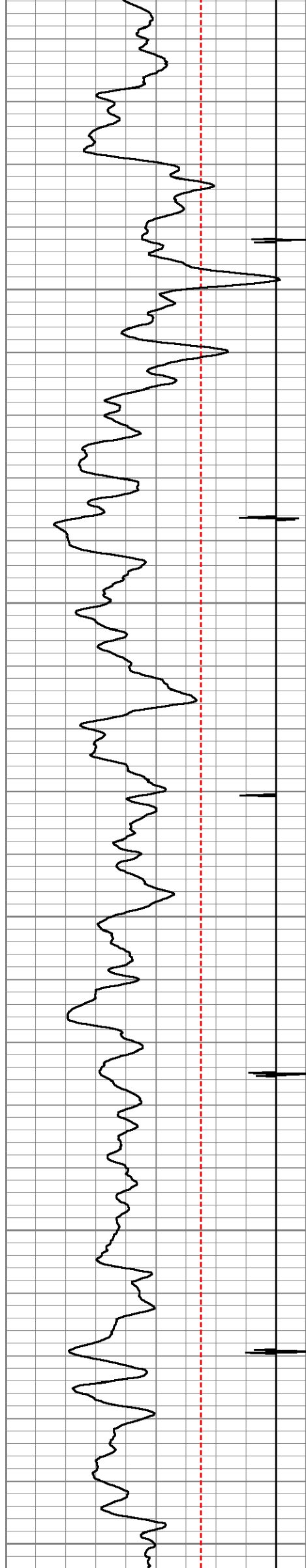


2100

2200

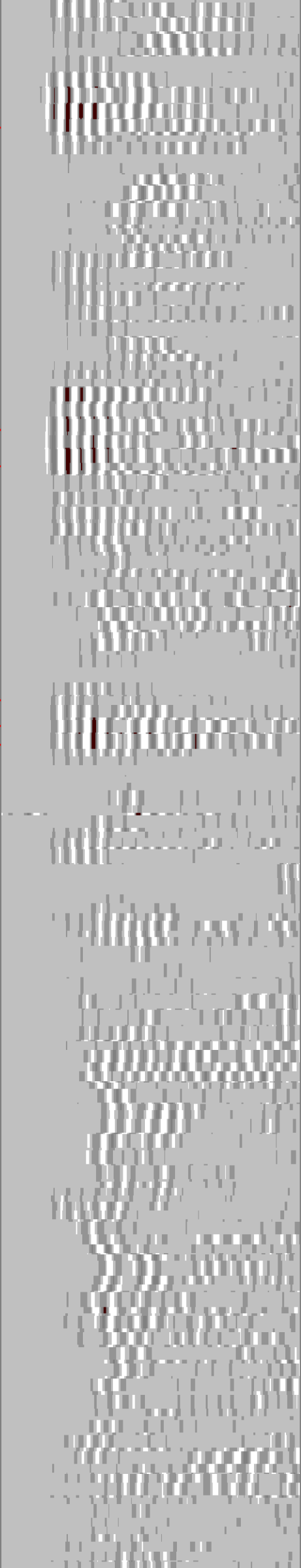
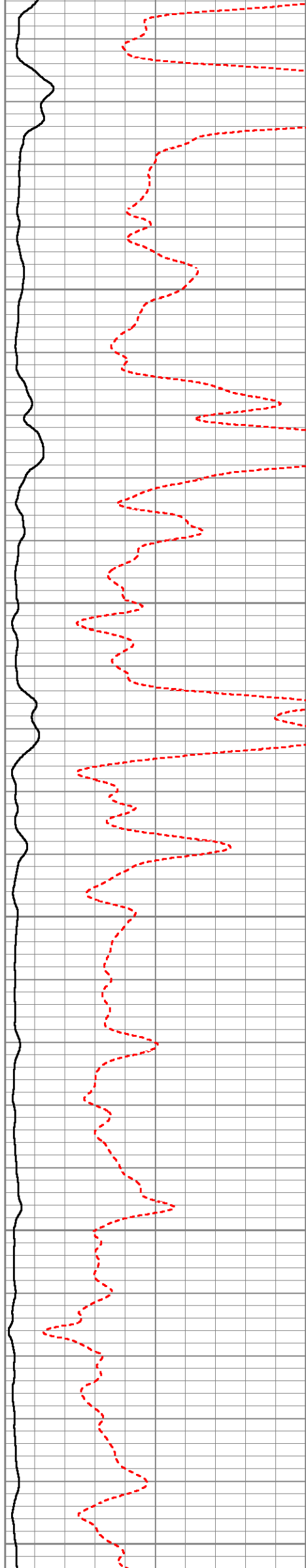
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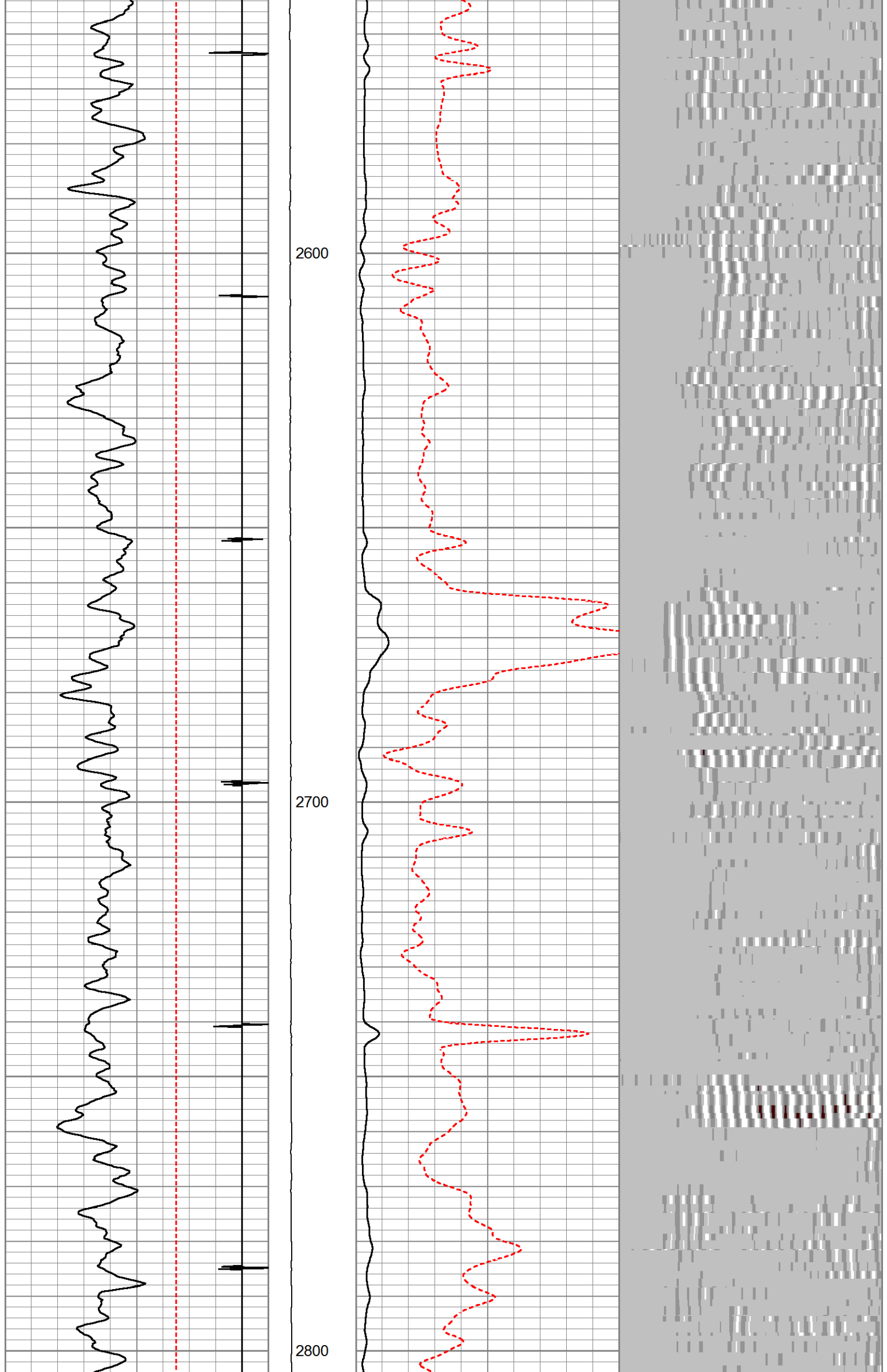


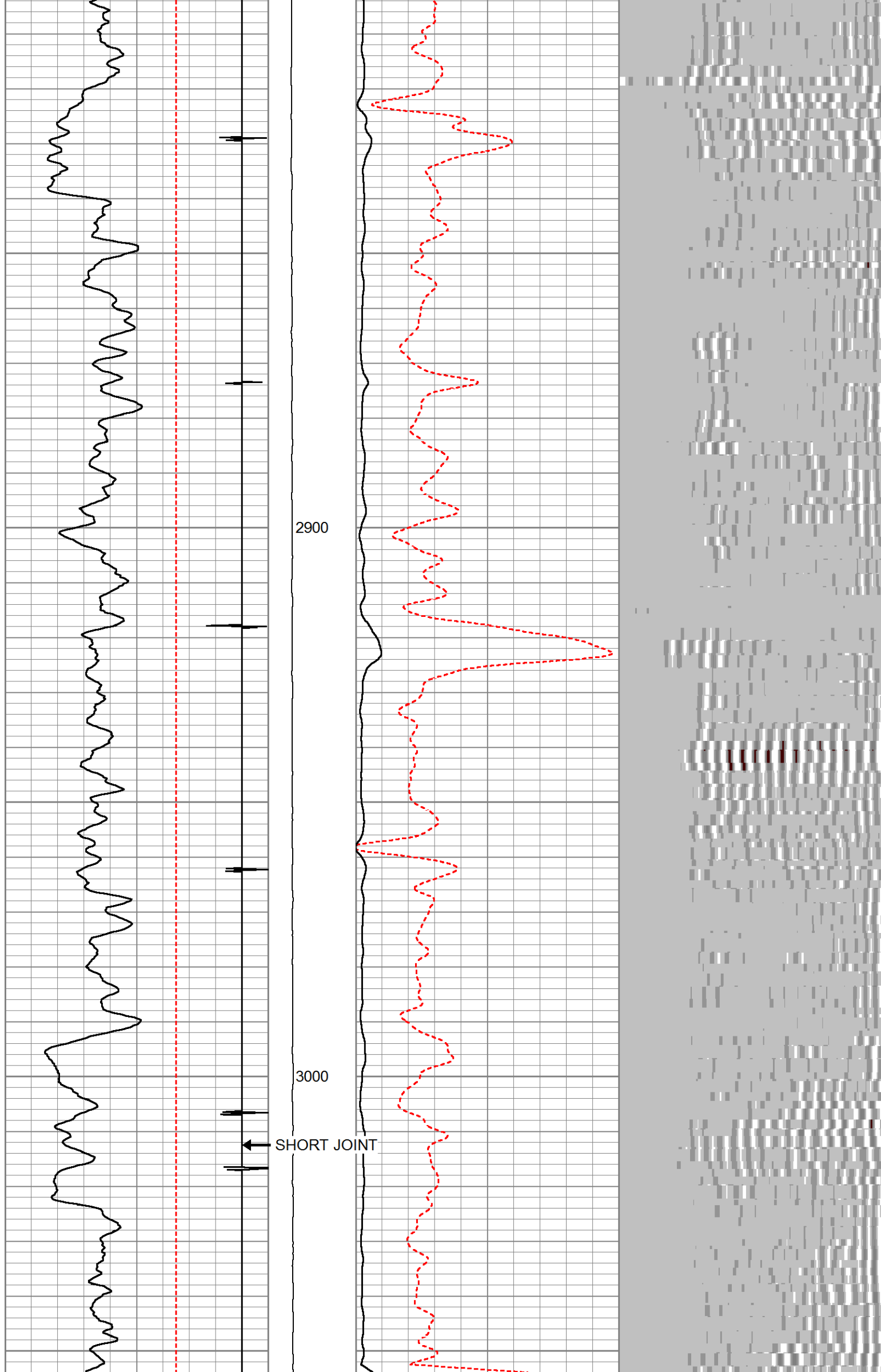


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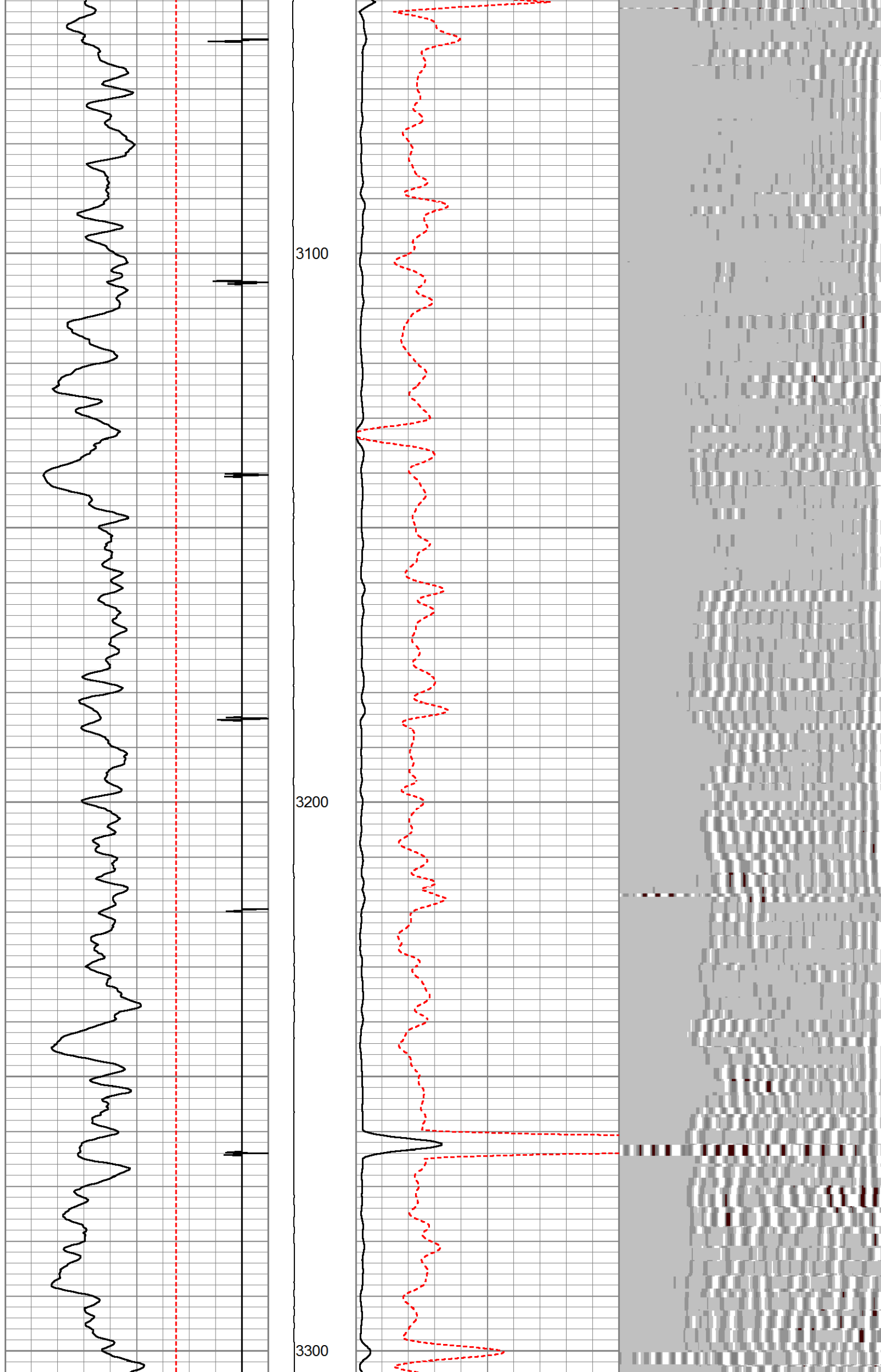
2500

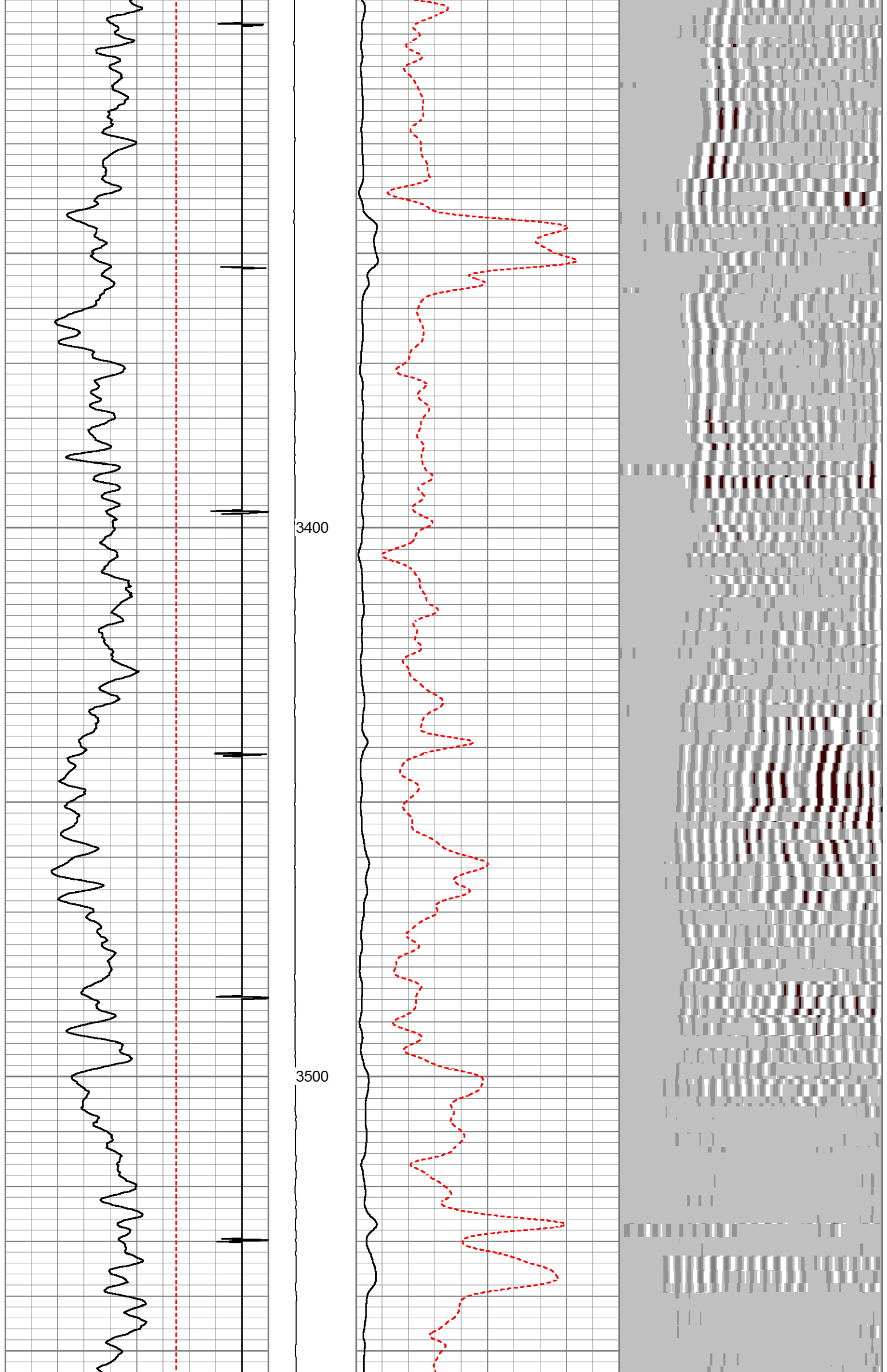


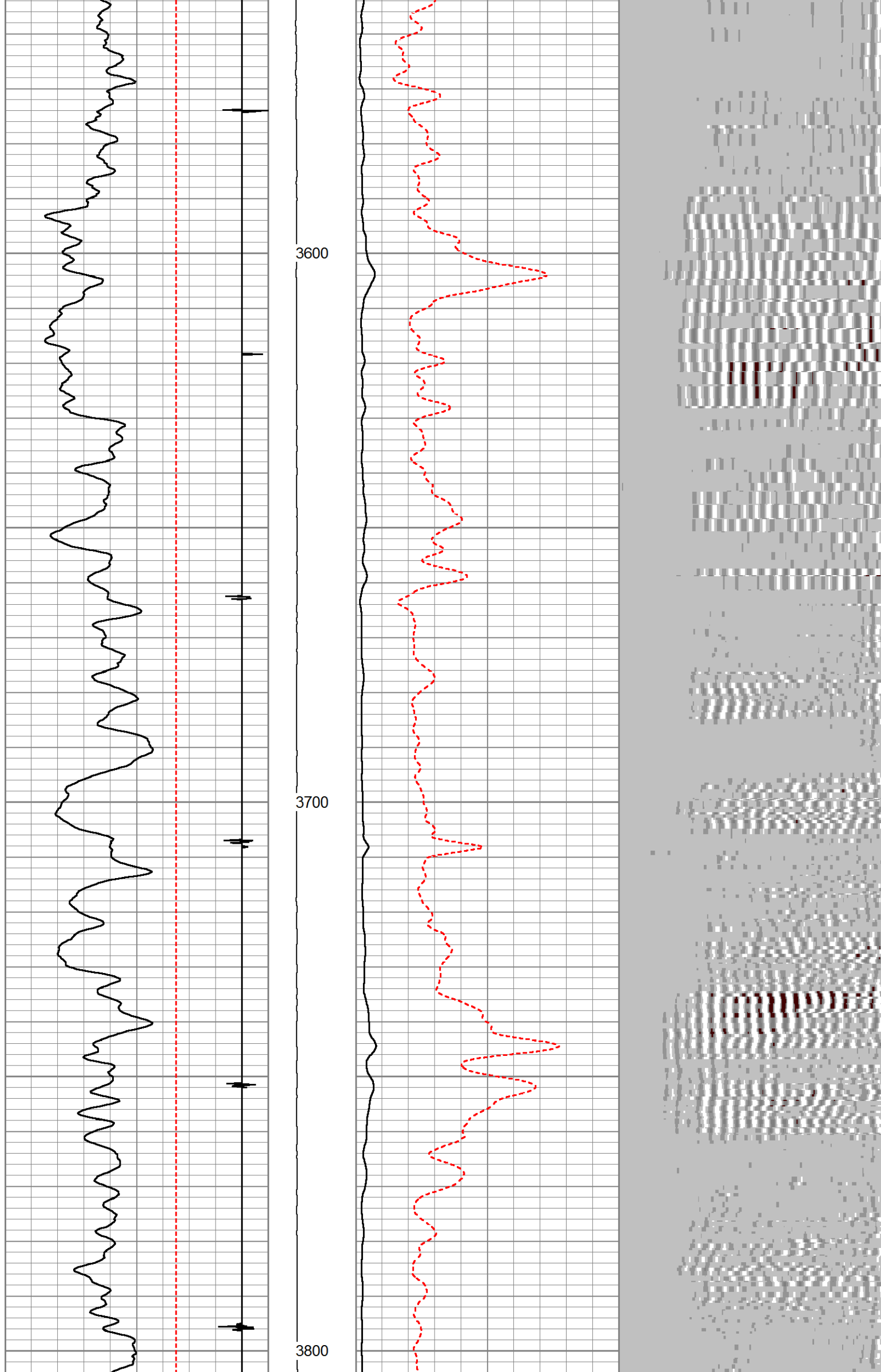


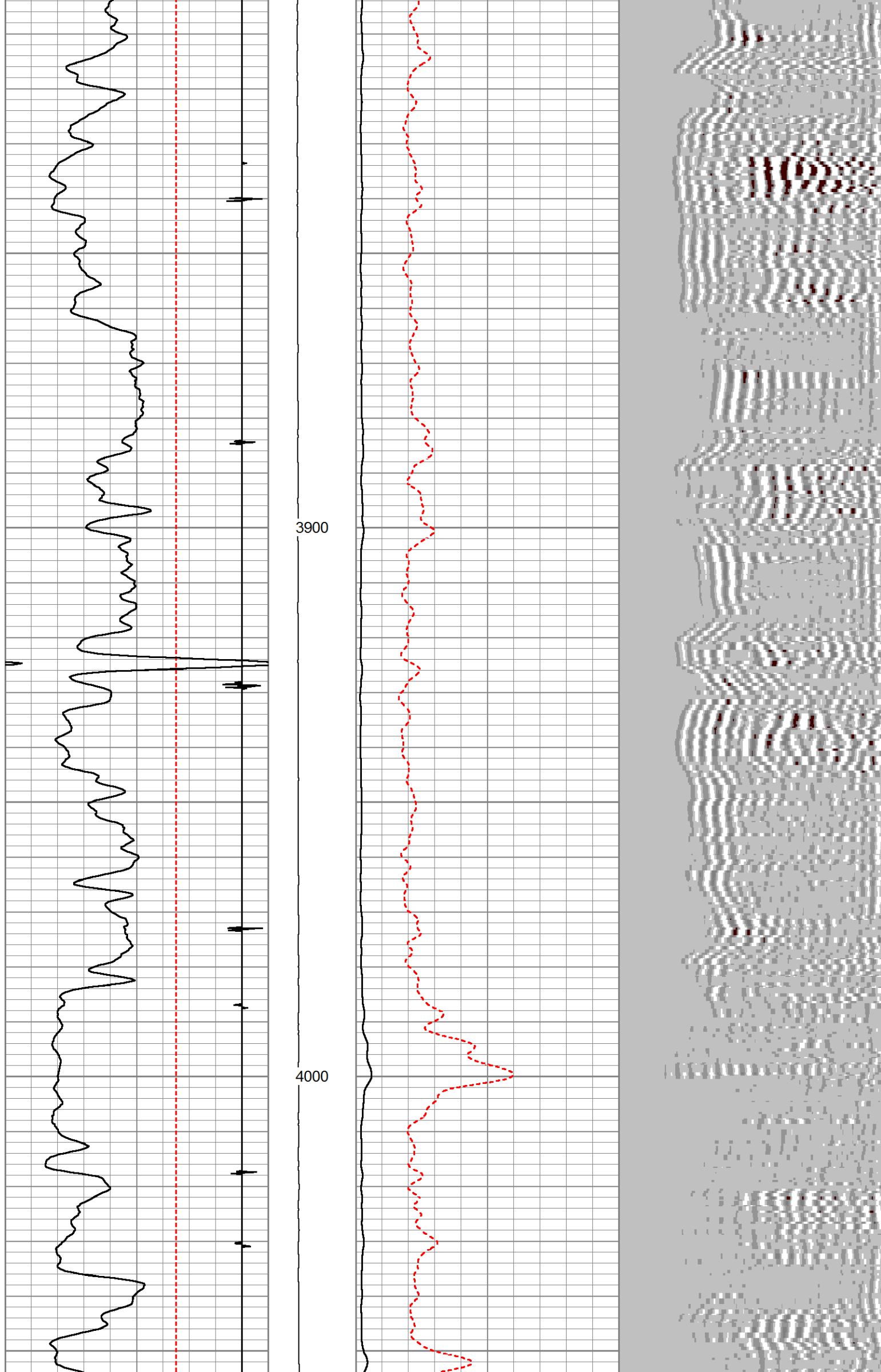


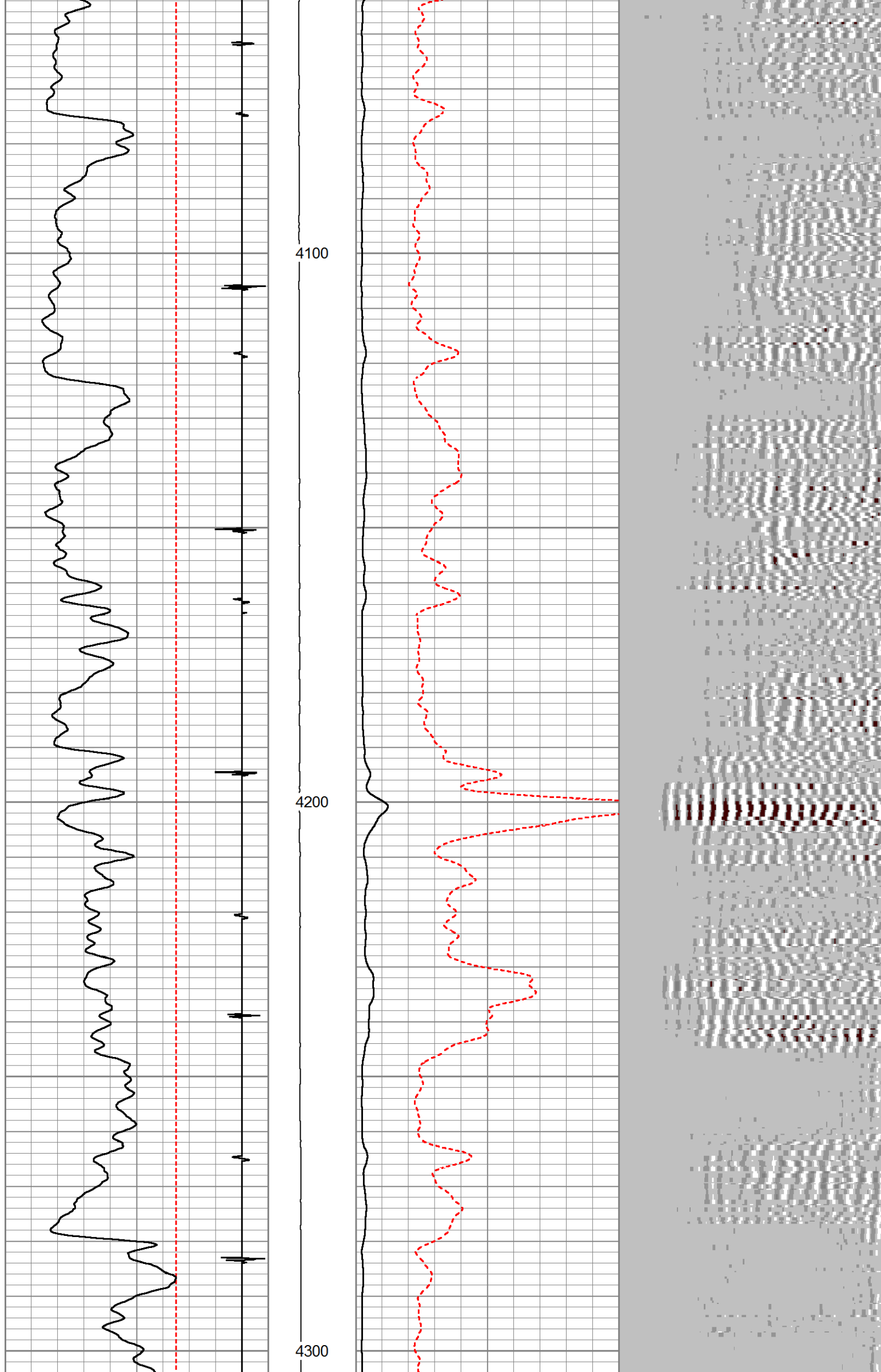




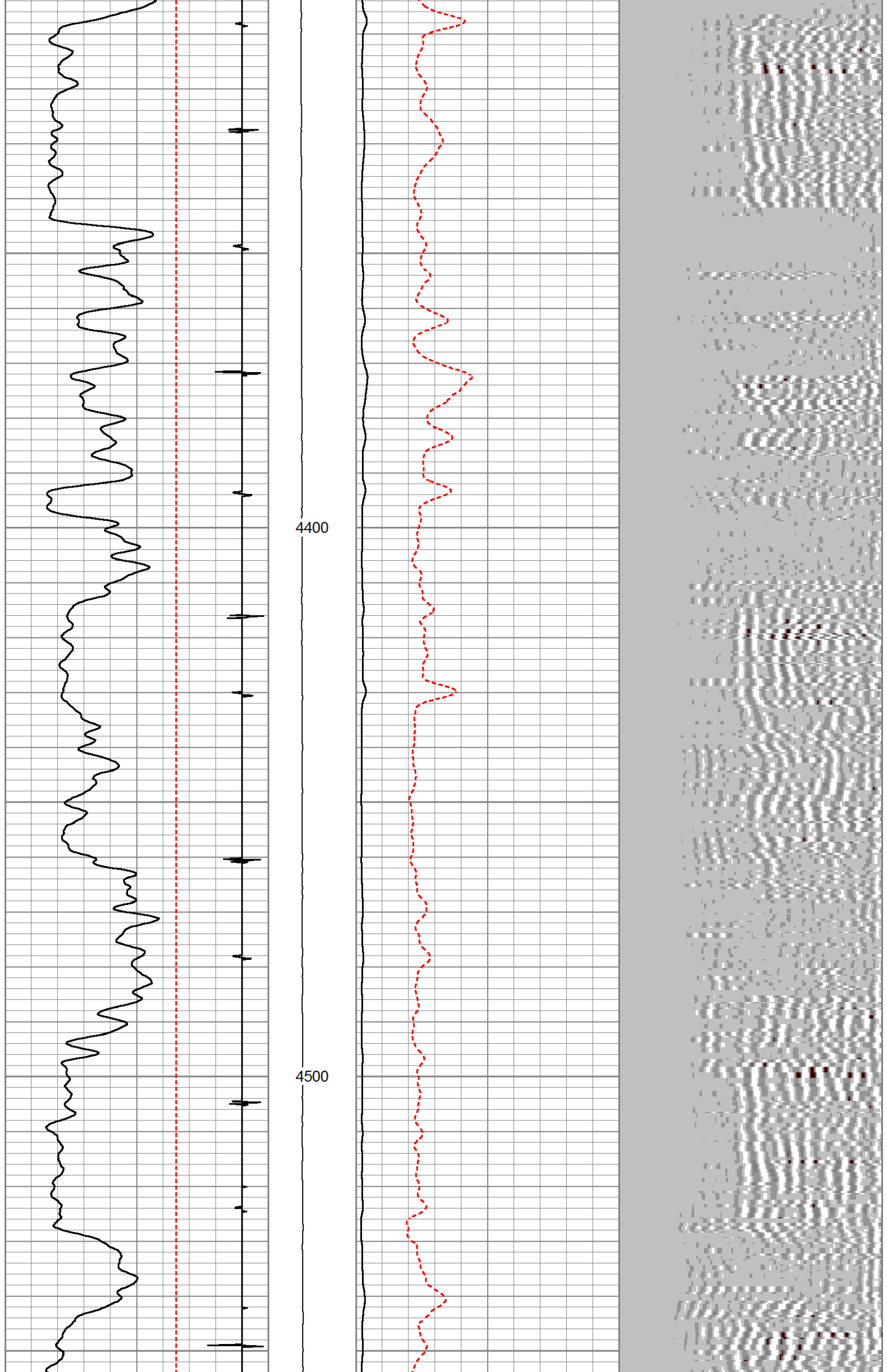


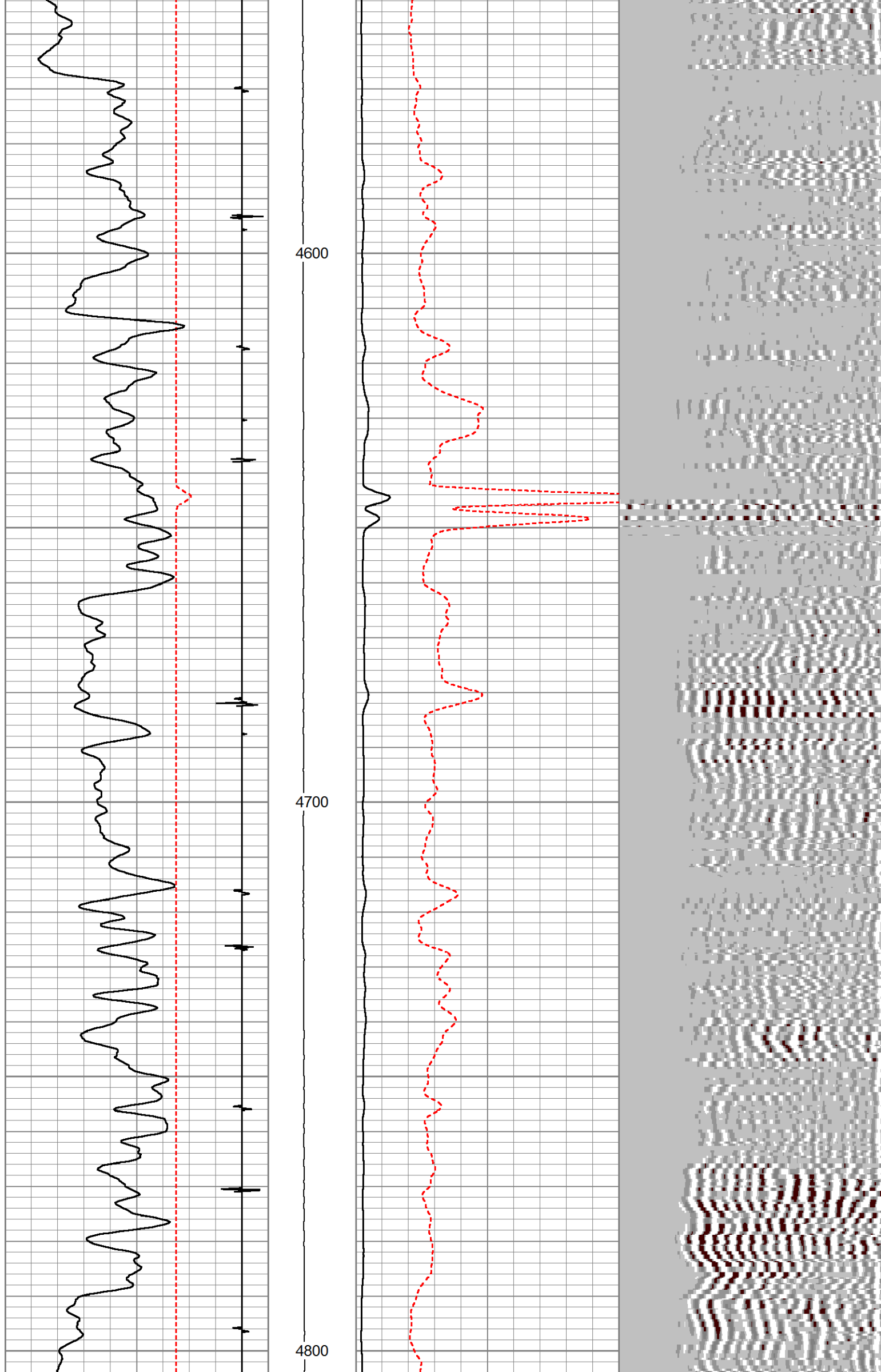


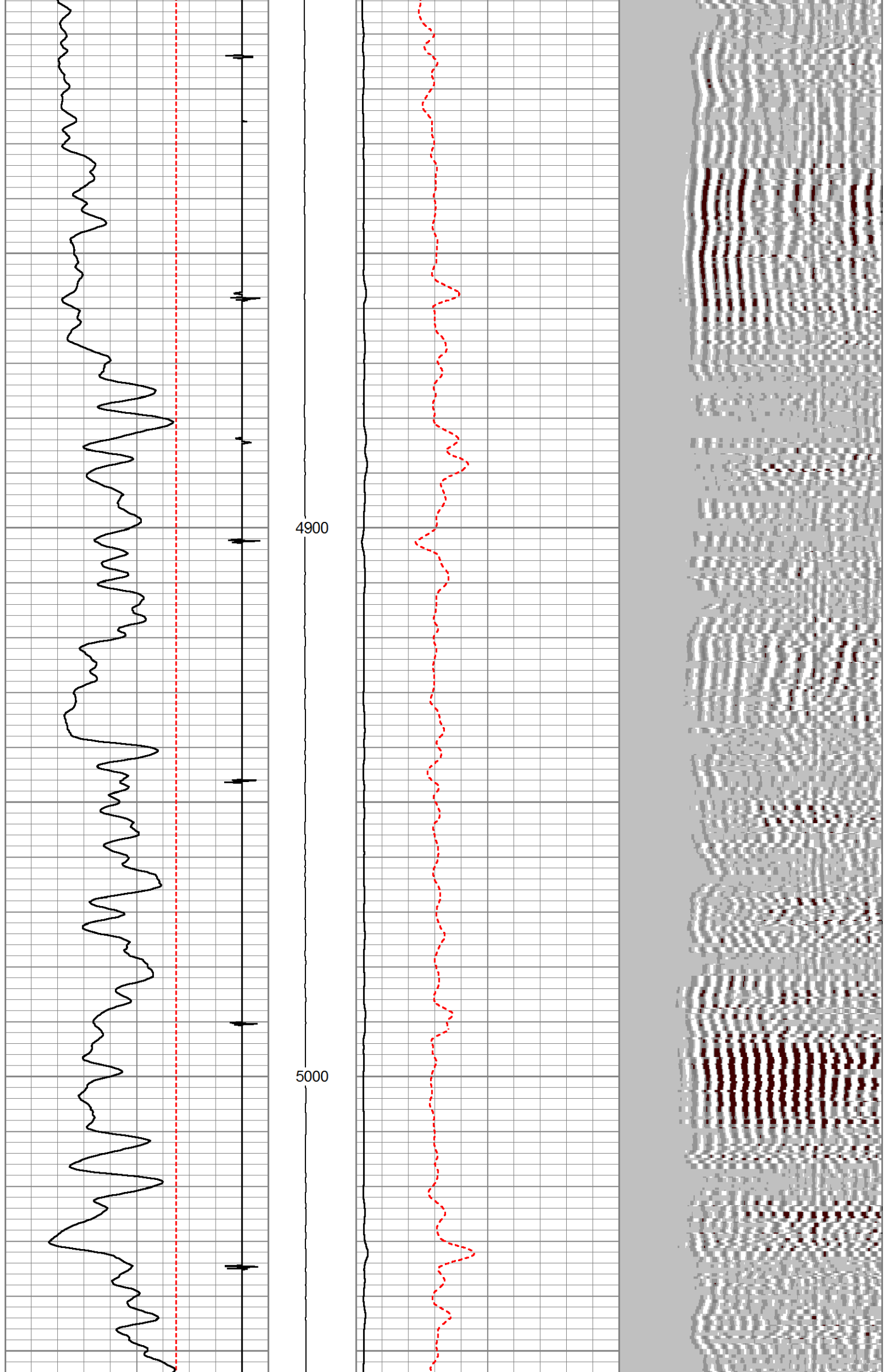


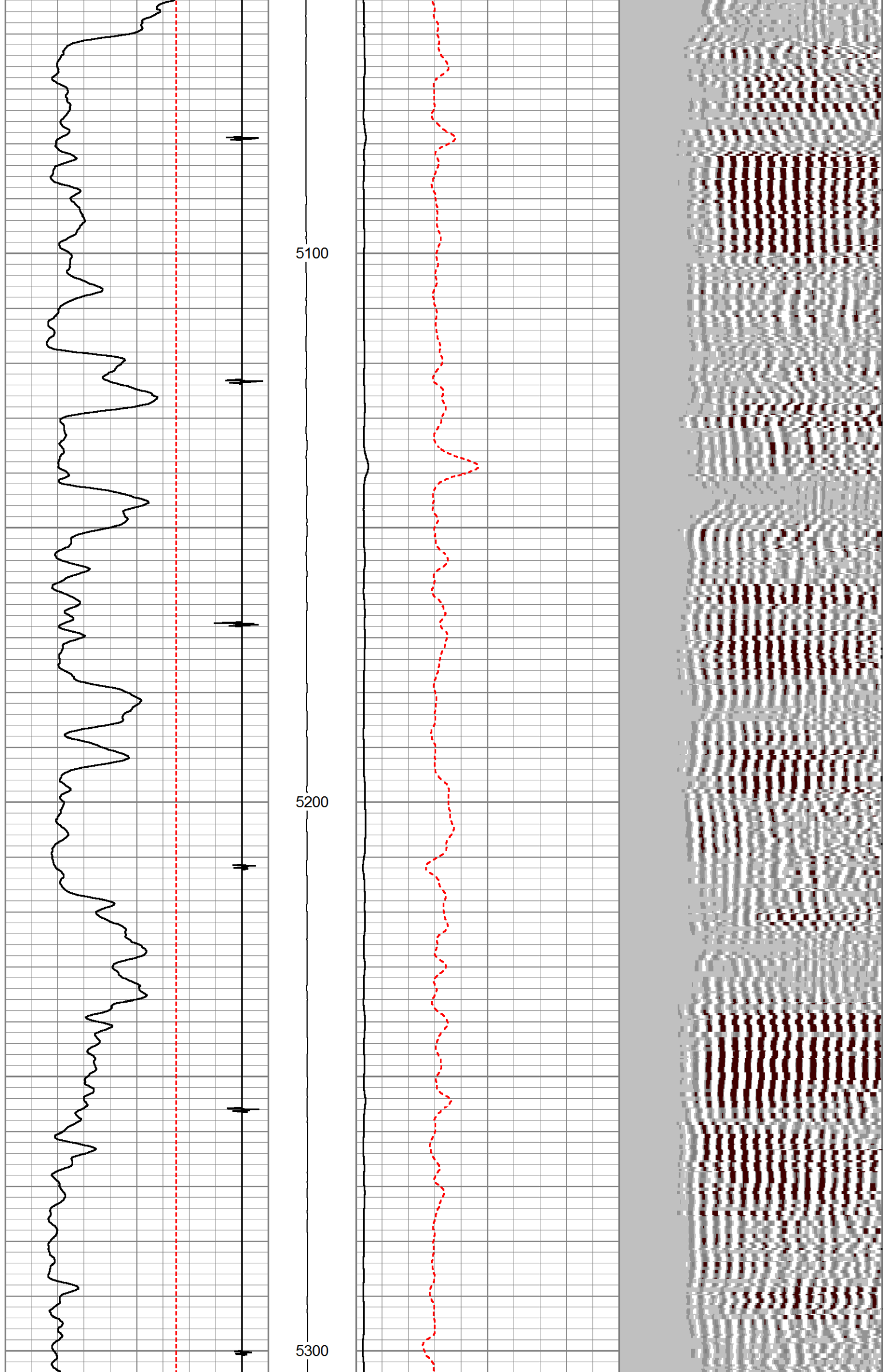


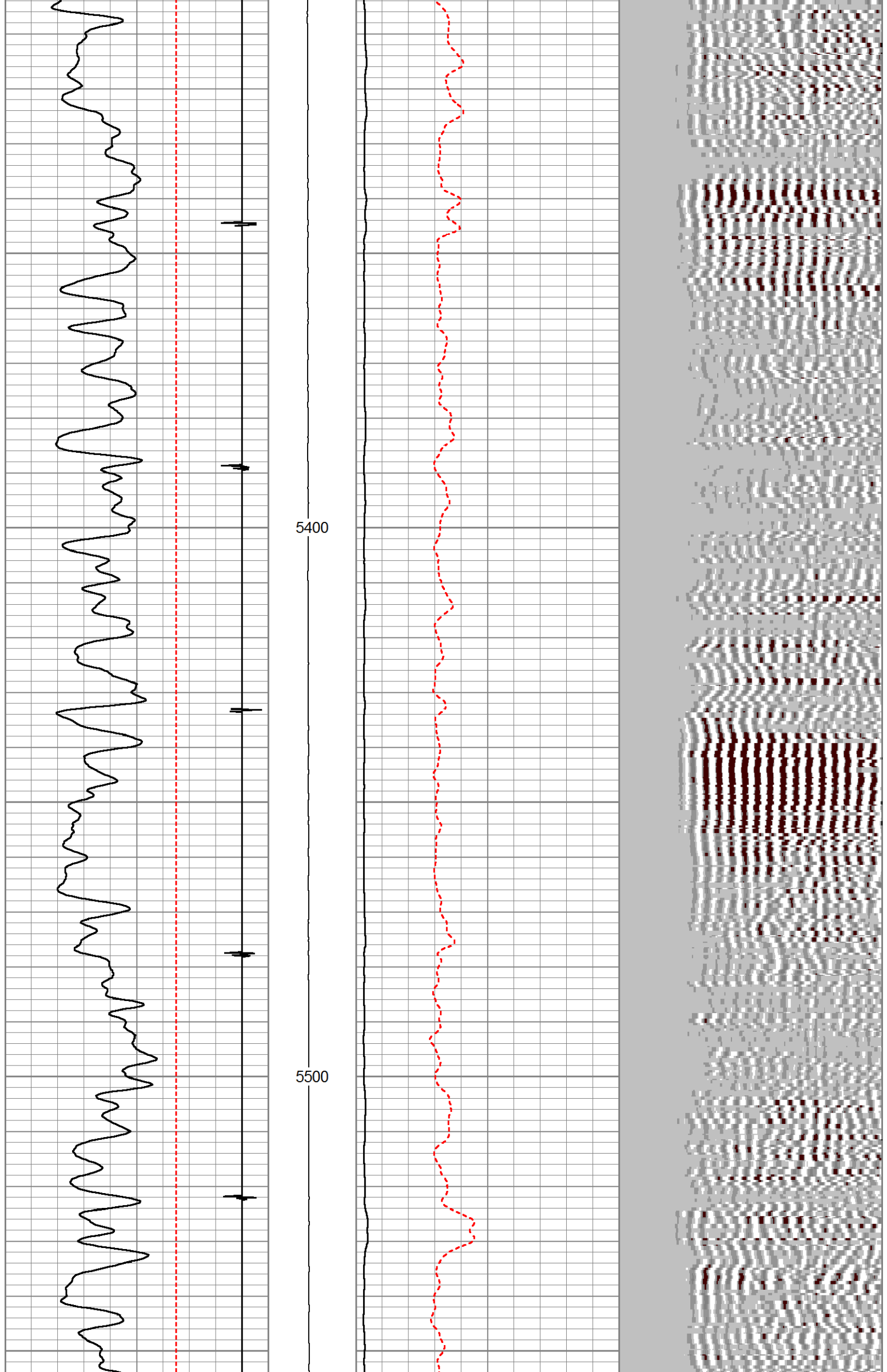




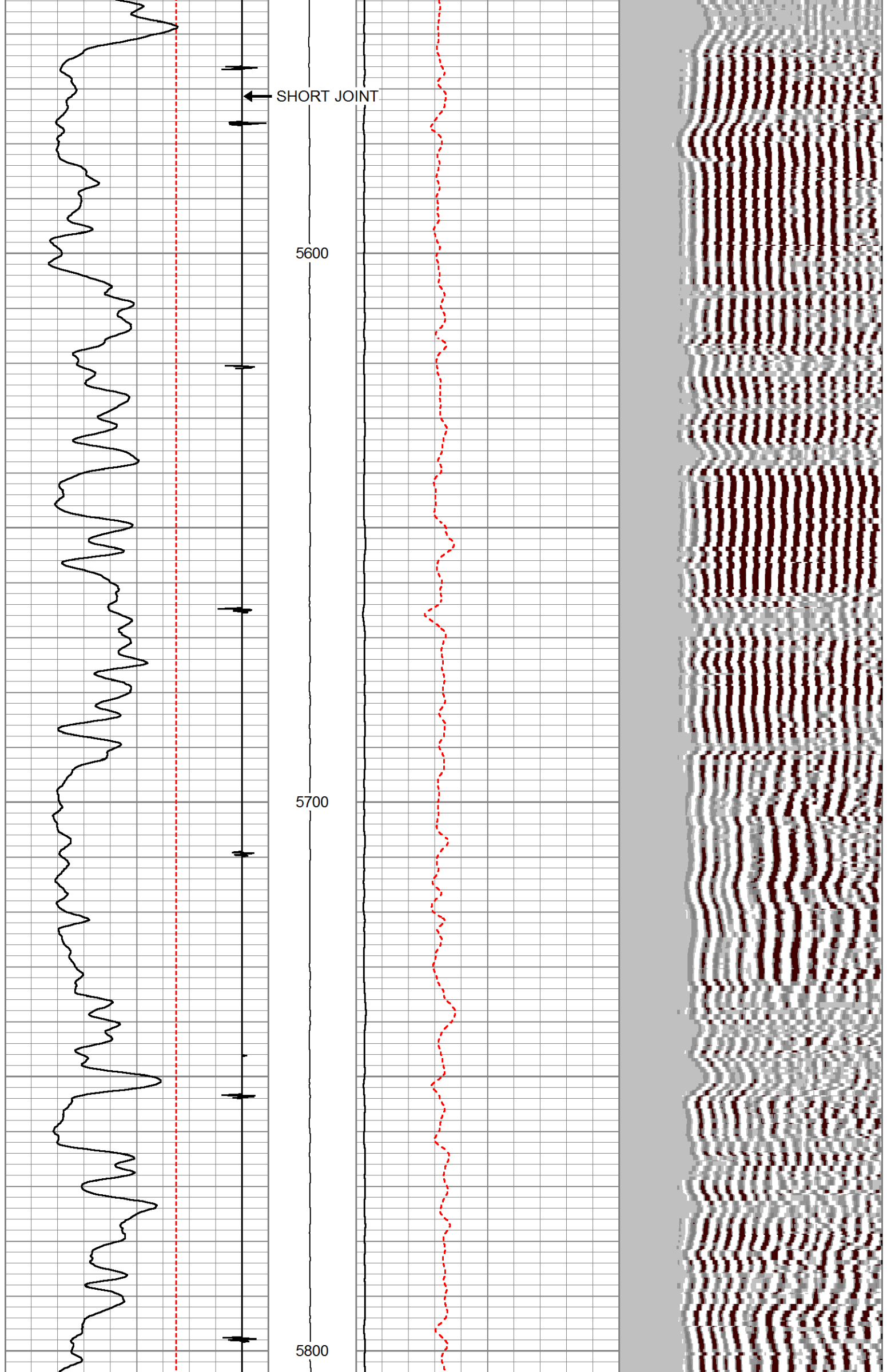


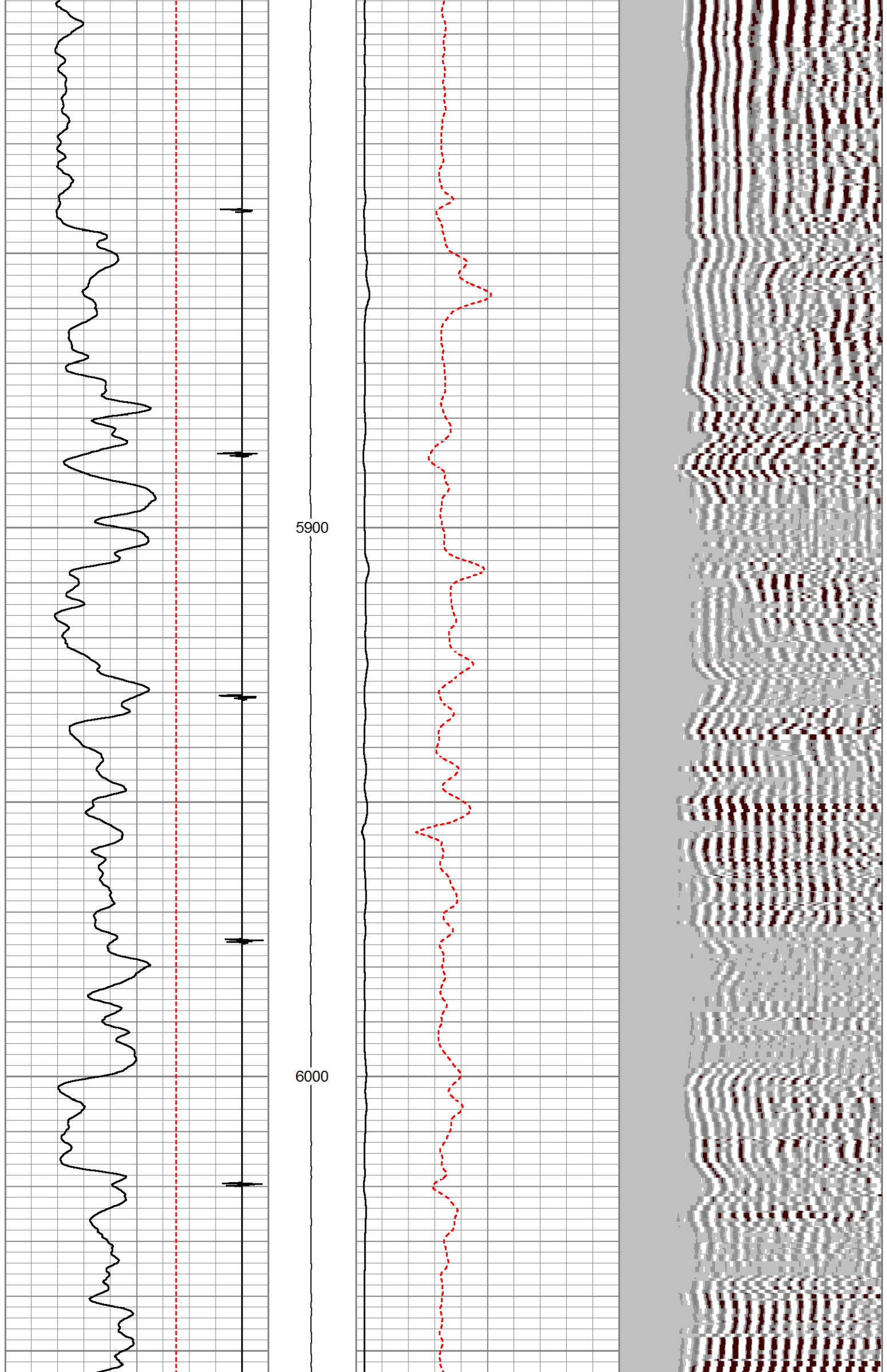


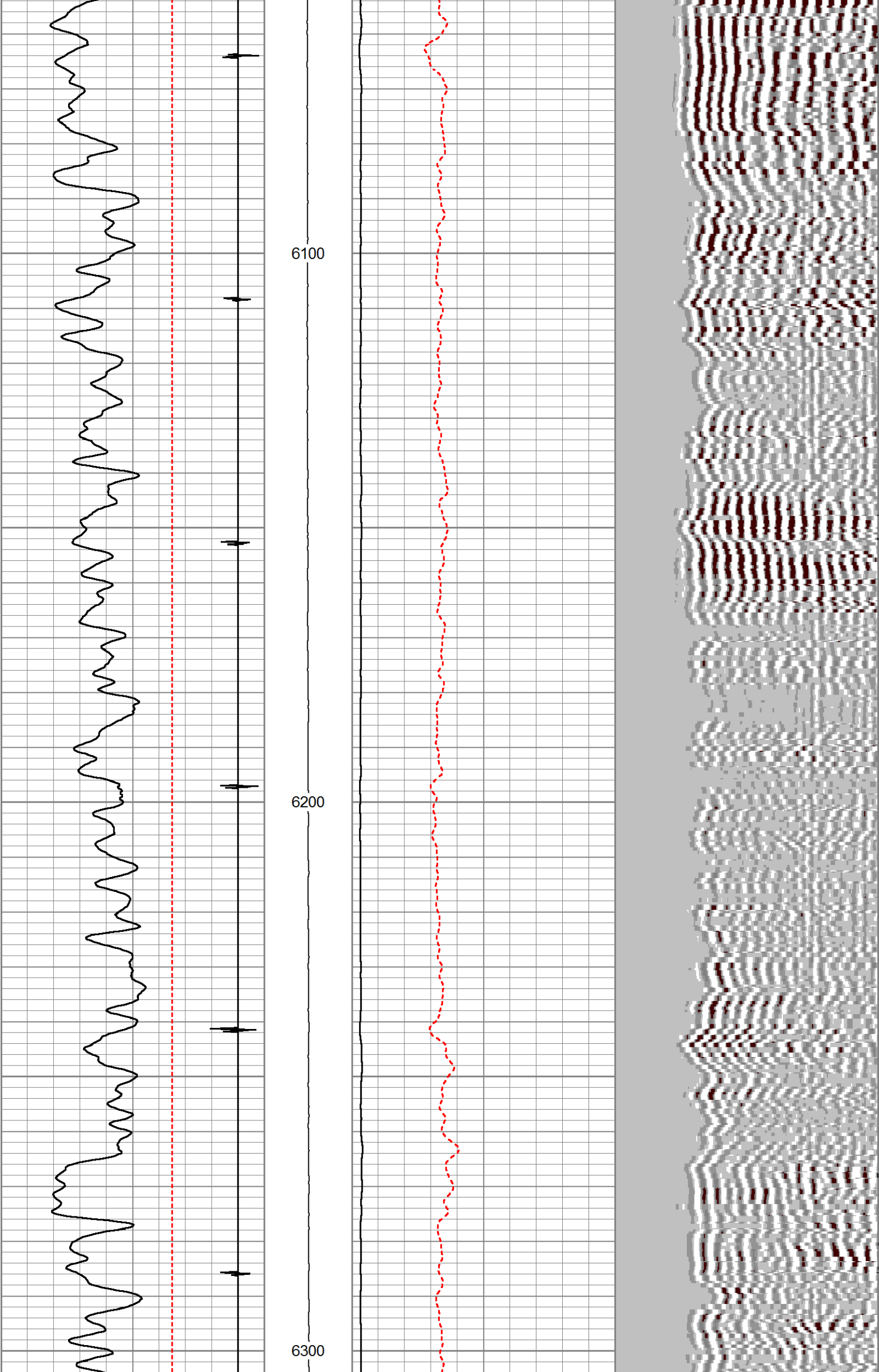


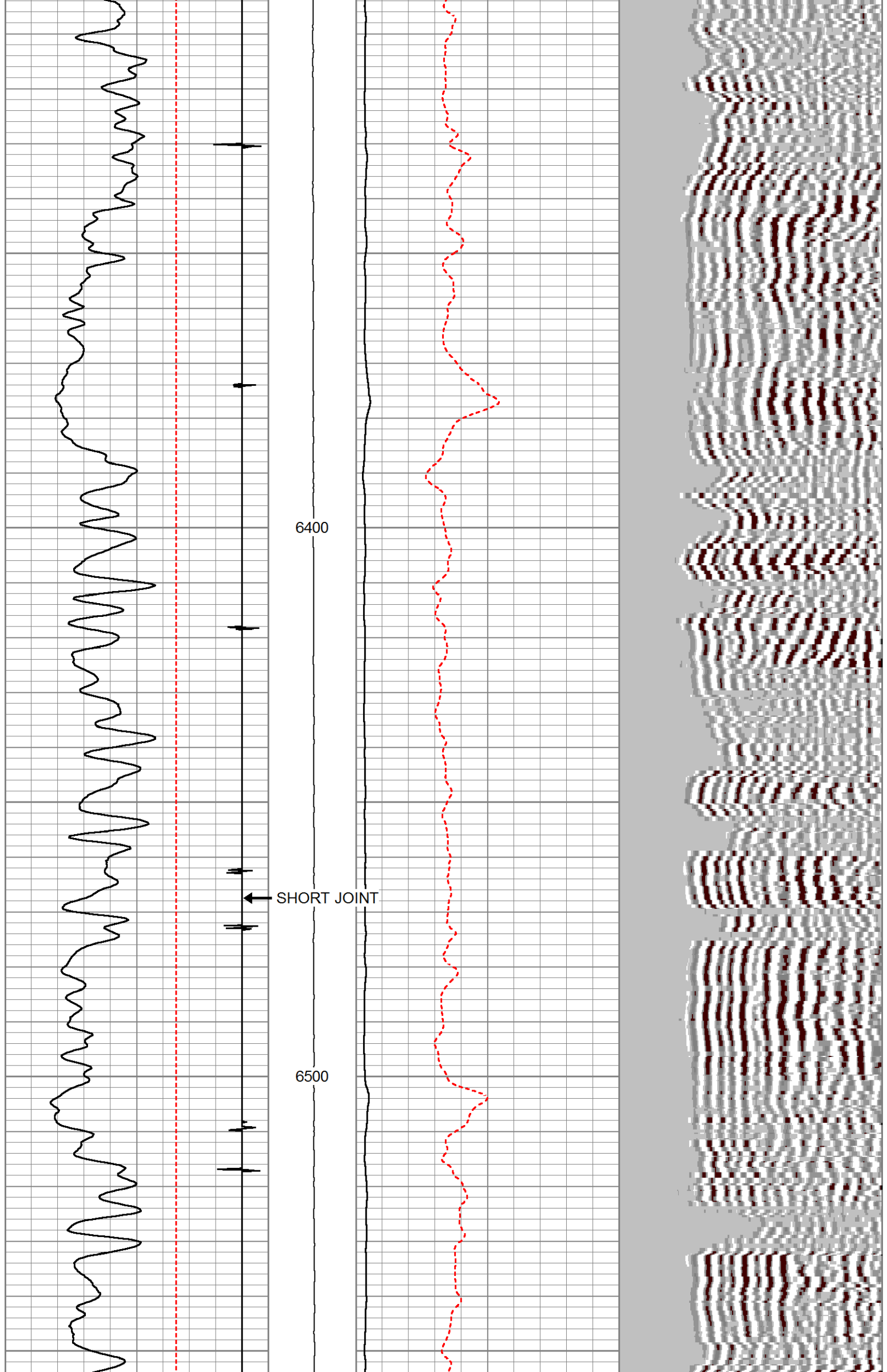


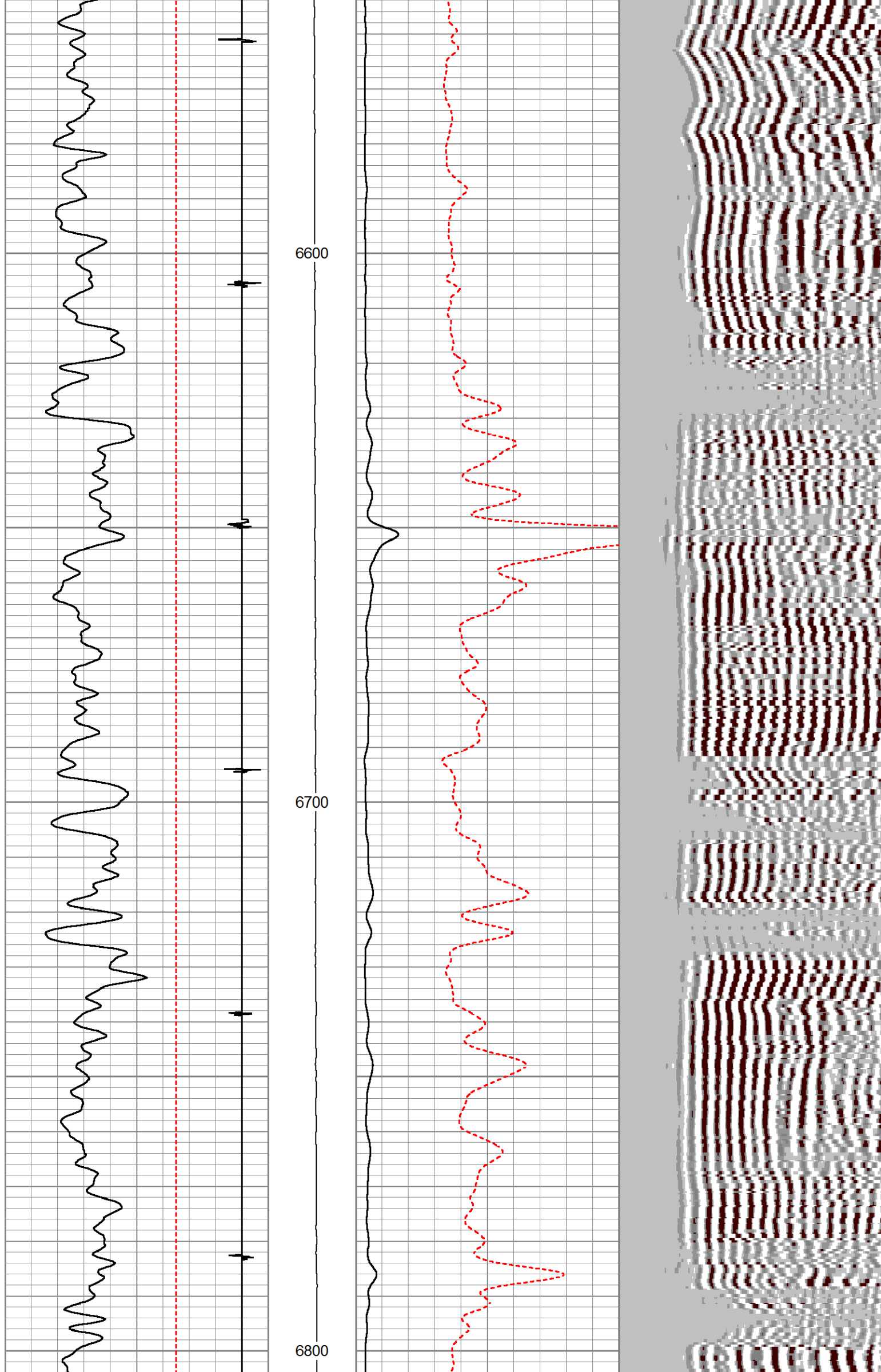




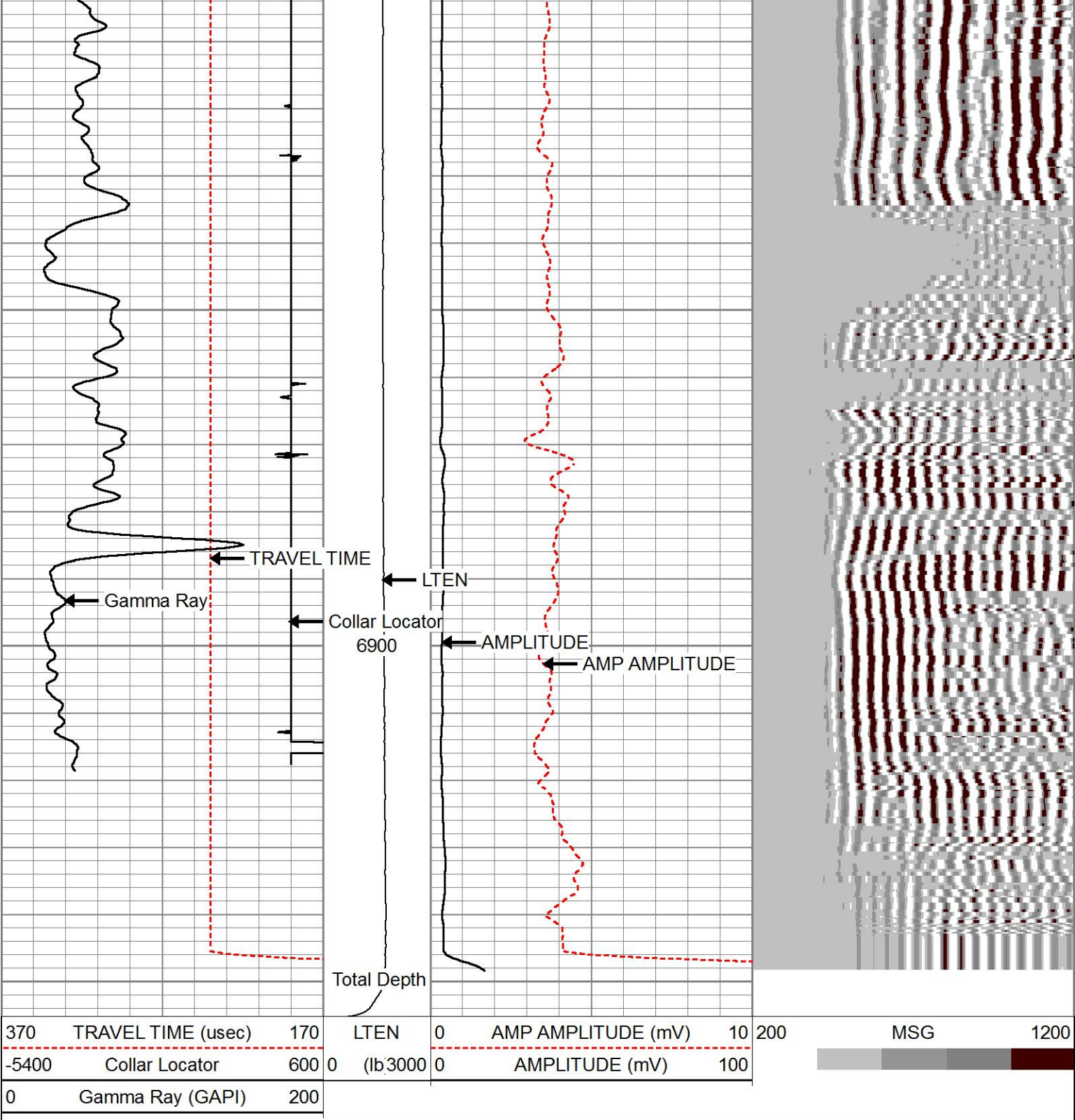












MAIN LOG SECTION

HALLIBURTON

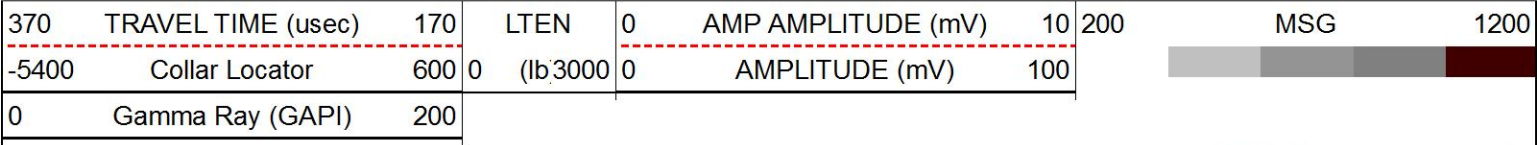
5" = 100'

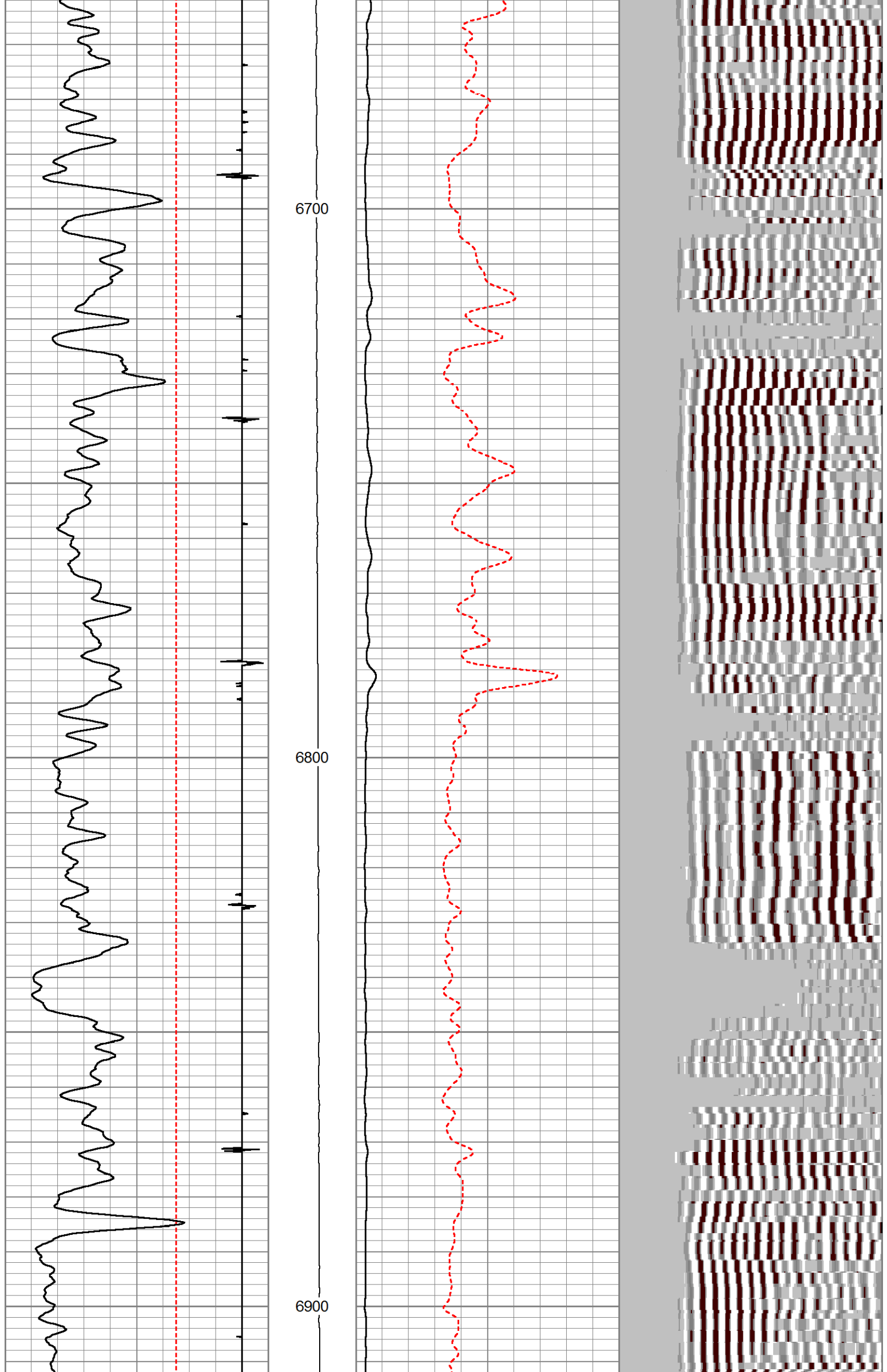
REPEAT LOG SECTION

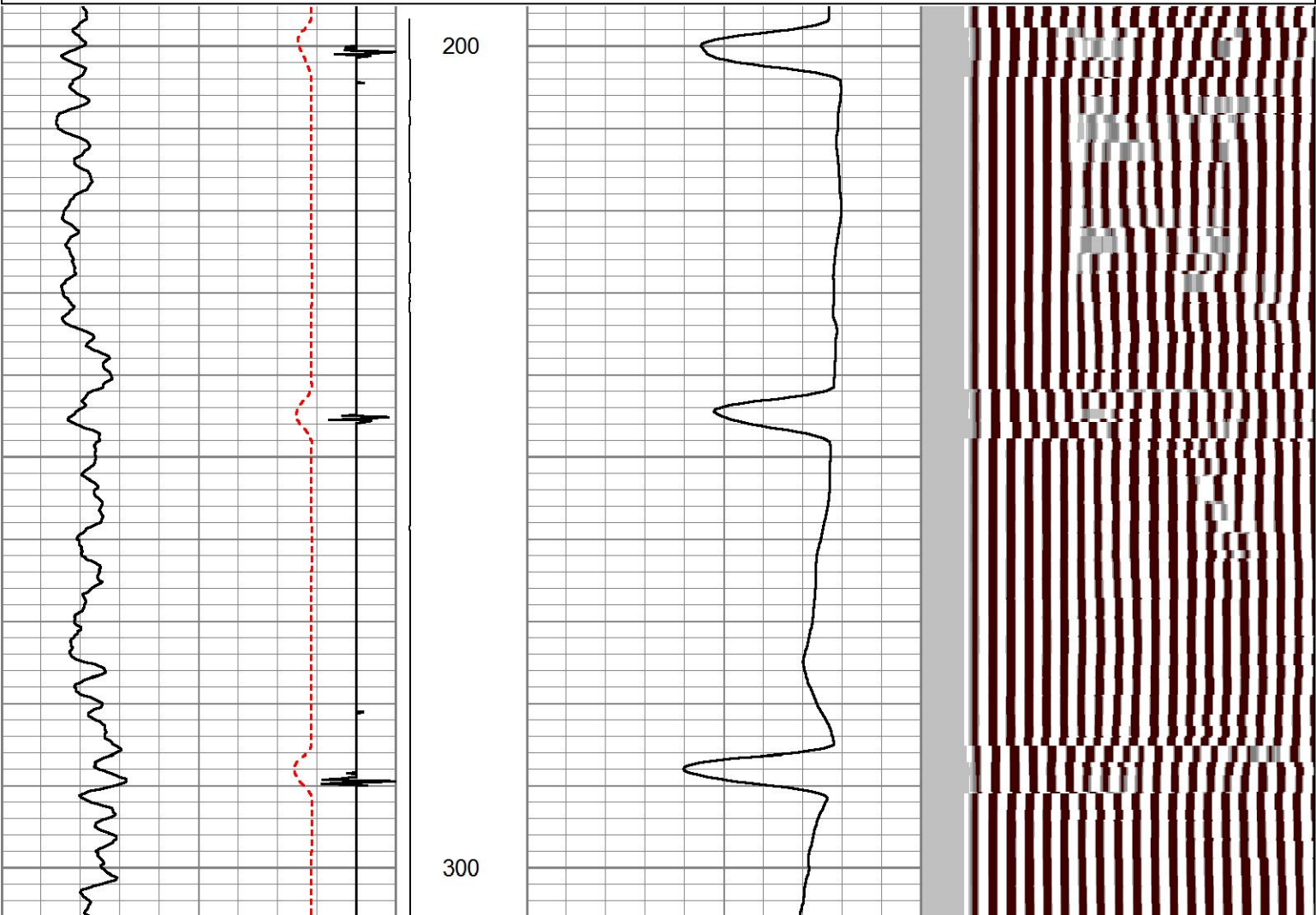
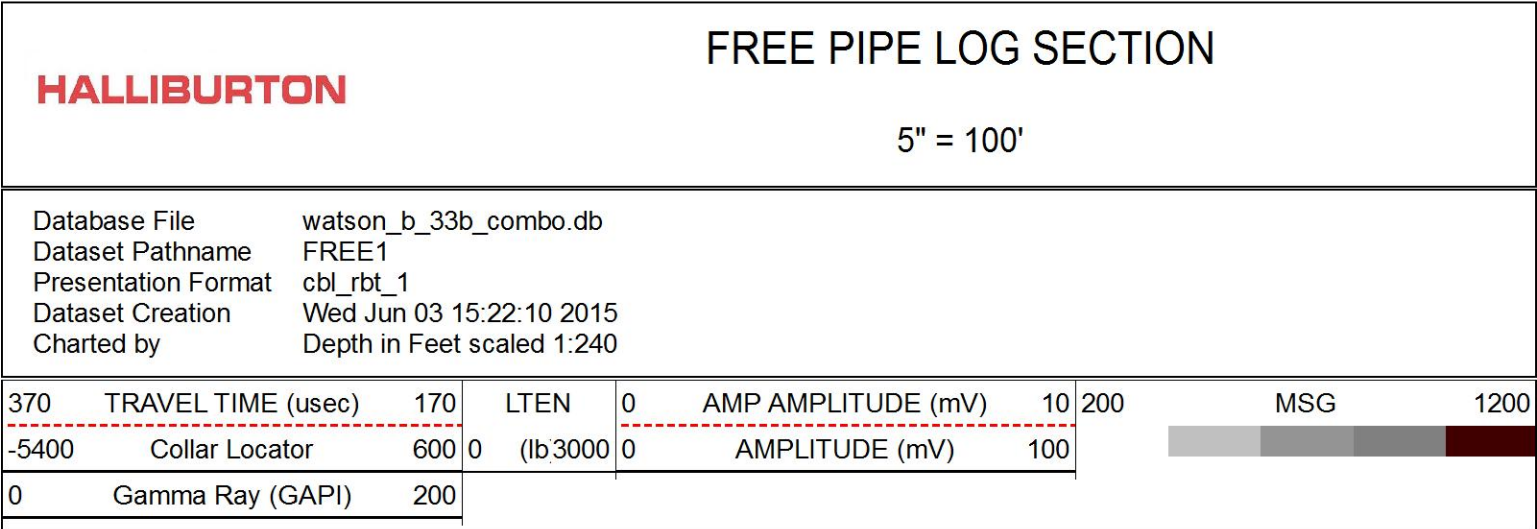
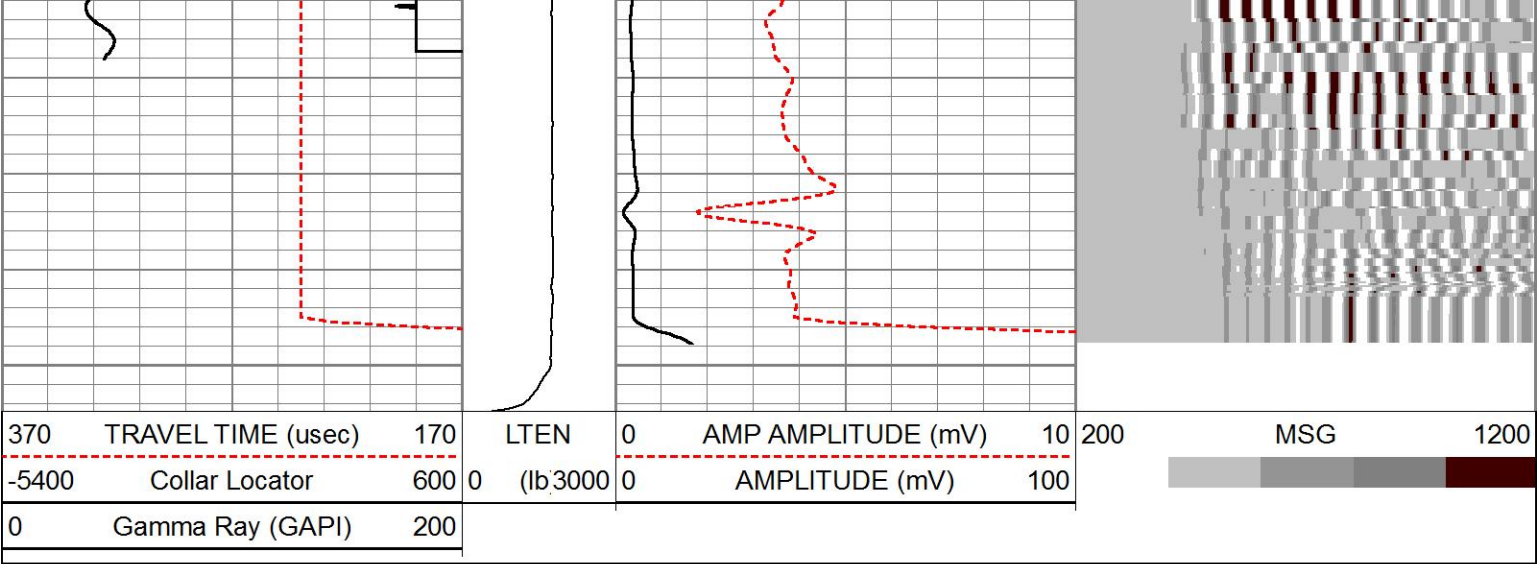
HALLIBURTON

5" = 100'

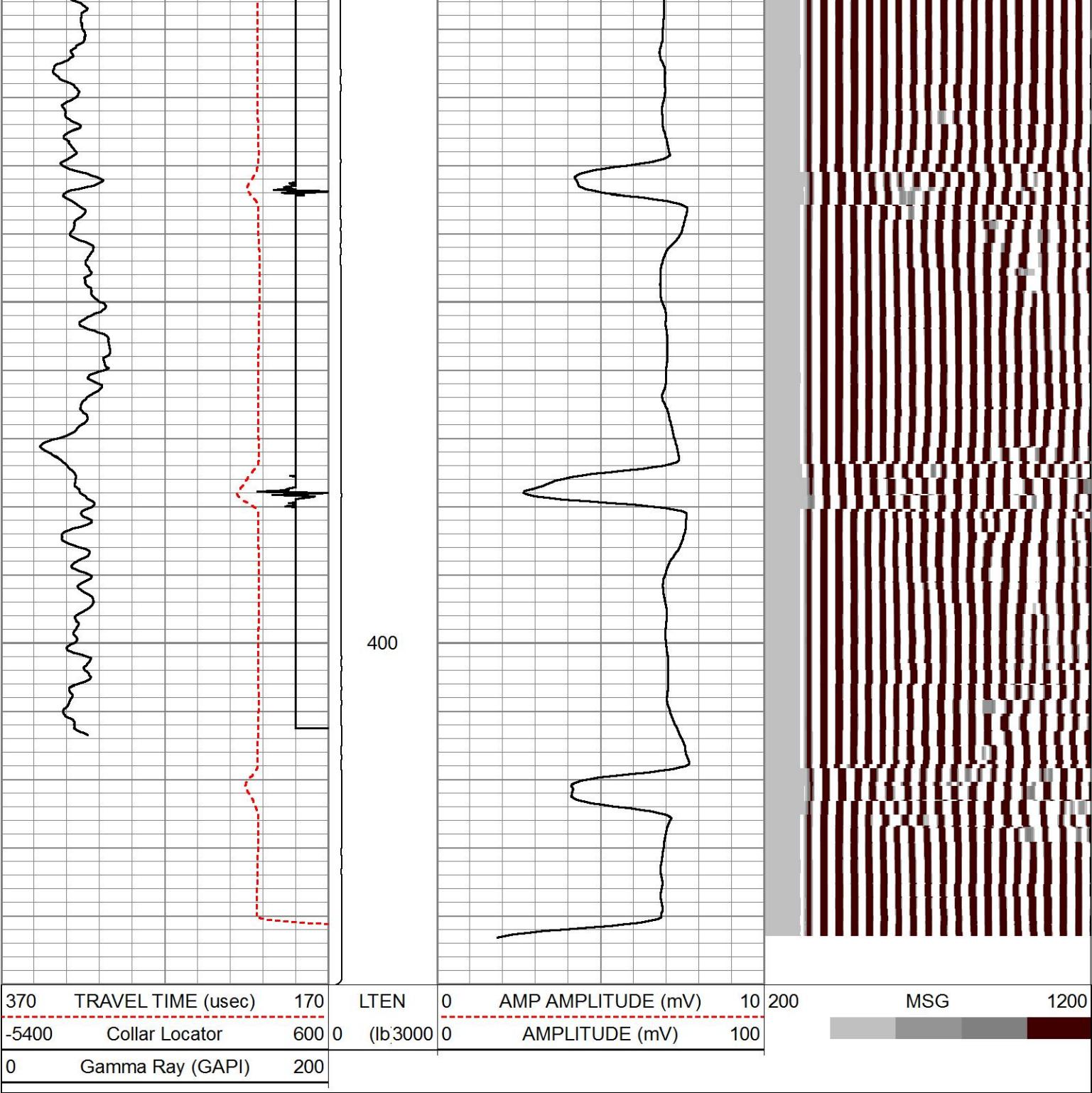
Database File      watson\_b\_33b\_combo.db  
Dataset Pathname    CBLRPT1  
Presentation Format   cbl\_rbt\_1  
Dataset Creation      Wed Jun 03 16:15:59 2015  
Charted by            Depth in Feet scaled 1:240











FREE PIPE LOG SECTION

HALLIBURTON

5" = 100'

Log Variables DatabaseD:\Warrior\_data\watson\_b\_33b\_combo.db  
Dataset field\well\run1\MAIN1\\_vars\_

Top - Bottom

BHTEMP_Src	BHSAL2	BHSAL1	POROS2	POROS1	LTH	UHSGC	RHOFC
ITEMPX	0	1	0	1	Sandstone	NONE	0.25
SO	BORSAL	CASED?	PPT	CASEWGHT	MAXAMPL	MINAMPL	MINATTN
in	kppm		usec	lb/ft	mV	mV	db/ft
0	150	Yes	0	17	0	1	0.8
SRFTEMP	MudWgt	CASETHCK	CASEOD	PERFS	TDEPTH	BOTTEMP	BITSIZE
degF	lb/gal	in	in		ft	degF	in
0	9.5	0	7	0	0	100	10

Calibration Report	
Database File	watson_b_33b_combo.db
Dataset Pathname	MAIN1
Dataset Creation	Wed Jun 03 16:28:12 2015

Segmented Cement Bond Log Calibration Report			
Serial Number:		11002214	
Tool Model:		004	
Calibration Casing Diameter:		4.500	in
Calibration Depth:		262.058	ft

Master Calibration, performed Tue Jun 02 22:01:03 2015:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.198	0.803	1.500	81.196	79.674	17.256
5FT	-0.208	0.858	1.500	81.196	74.819	17.029
S1	-0.196	0.981	0.000	100.000	84.942	16.690
S2	-0.199	0.701	0.000	100.000	111.104	22.096
S3	-0.199	0.952	0.000	100.000	86.871	17.273
S4	-0.201	0.798	0.000	100.000	100.075	20.105
S5	-0.198	0.723	0.000	100.000	108.676	21.471
S6	-0.200	0.635	0.000	100.000	119.700	23.957
S7	-0.198	0.619	0.000	100.000	122.466	24.253
S8	-0.199	0.618	0.000	100.000	122.485	24.356

Calibration Report			
Serial Number:		11002214	
Tool Model:		004	
Performed:			
Low: High:	Reference (degF)	Reading ( )	
	0.000	0.000	
	1.000	1.000	
	Gain = 1.000	Offset = 0.000	

Reservoir Monitor Tool I Calibration Report	
Serial-Model:	12095949-A
Shop Calibration Performed:	Wed May 27 10:12:02 2015

Carbon/Oxygen Mode					
Stabilization					
Result	Logged	Expected Value	Diff.	Tol.	Units
GENV	82.00	80.00	2.00	+/-15.00	V
ITCR2	3281	3250	31	+/-250	cps
Near Detector					
	Channel	Expected Value	Amplitude	FWHM	Tol.
H	60	60 +/-2	0.0270	5.32	<6.00
Fe	207	206 +/-2	0.0961	-----	-----
NGAIN = 0.993	NZOFF = 0.7				
Far Detector					
	Channel	Expected Value	Amplitude	FWHM	Tol.
H	60	60 +/-2	0.0360	5.72	<6.50
Fe	209	208 +/-2	0.0918	-----	-----



FGAIN = 0.991	FZOFF = 0.5				
Flask Temperature	63.5 degF				
Result	Logged	Expected Value	Diff.	Tol.	Units
COIR2	0.45	0.45	-0.00	+/-0.02	
LIRI2	1.65	1.64	0.01	+/-0.05	
TCCR2	5061	5000	61	+/-1000	cps
ITCR2	3240	3200	40	+/-250	cps

Sigma Mode					
Stabilization					
Result	Logged	Expected Value	Diff.	Tol.	Units
GENV	82.00	80.00	2.00	+/-15.00	V
FCAP	10080	10000	80	+/-500	cps
Horizontal Water Tank					
Result	Logged	Expected Value	Diff.	Tol.	Units
N/F Normalizer	0.91	0.95	-0.04		
N/F Inel Norm	0.58	0.61	-0.03		
RNF	1.10	1.07	0.03	+/-0.12	
RINC	1.71	1.64	0.07	+/-0.18	
SGFN	24.09	24.00	0.09	+/-0.50	cu
SGFF	22.90	22.85	0.05	+/-0.50	cu
FSIN	24192	24000	192	+/-2000	cps
FCAP	10177	10000	177	+/-1000	cps
NFTR	0.84			<5.00	
FFTR	0.88			<5.00	
NBKG	179			<500	cps
FBKG	93			<500	cps
RTN	0.40	0.40	0.00	+/-0.10	usec
RTF	0.43	0.40	0.03	+/-0.10	usec








Calibration Software Modules	
HRMTI Module	2013.11.14.0
RMTI Module	2014.8.28.1
Log Data Acquisition Software Modules	
HRMTI Module	2013.11.14.0
RMTI Module	2014.8.28.1

Gamma Ray Calibration Report
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Type / Serial:	002 / 11224503
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SHOP CALIBRATION		Tue Jun 02 21:41:46 2015			
	Counts/Sec.	Gain	Offset	Jig	Units
Background	36.8				cps
Calibrator	322.4				cps
		1.4287			GAPI/cps
PRIMARY VERIFICATION		Tue Jun 02 21:44:07 2015			
Background	53.3				cps
Calibrator	467.2				cps
Difference				413.8	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					

Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL	37.31		STNDCH-STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00
GR	35.05		TTTCU-002 (11224503) Through Tubing Telemetry Cartridge - Ultrawire	7.65	1.69	100.00
RmtTFGT RmtTNGT	24.39 23.89		XHU-003 (12461939) Crossover Halliburton 1553 to Ultrawire	1.58	1.69	7.00
RmtFP5V RmtCommFWa	16.14 16.14		RMTI-A (12095949) Halliburton RMTI Tool	14.00	2.13	77.00
CBLTEMP	8.23		X-OVER-SondexxGo Sondex Box x Go Pin Cross Over	0.31	1.69	1.00
			AUH-001 (11072111) Adaptor Ultrawire/Halliburton	0.38	1.69	3.00
			CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
CBLTEMP	8.23		RBT-004 (11002214) Radial Bond Tool (UW 3 1/8) 20K Rated	9.48	3.13	140.00
CBLTEMP	8.23		CENT-Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00

LLMTEN	0.00			BUL-006 (000002) Bullnose Terminator	0.22	1.69	1.20
Dataset: watson_b_33b_combo.db: field/well/run1/MAIN1 Total length: 40.88 ft Total weight: 370.20 lb O.D.: 3.13 in							

Company	URSA OPERATING CO., LLC.				
Well	WATSON RANCH B 33B-17-07-95				
Field	PARACHUTE				
County	GARFIELD		State	CO	
HALLIBURTON	ACOUSTIC CEMENT BOND LOG				