

HALLIBURTON

BOREHOLE COMPENSATED SONIC ARRAY

COMPANY		MERIT ENERGY COMPANY, LLC	
WELL		CELONA No. 1-12	
FIELD/BLOCK		ST LOUIS	
COUNTY		FINNEY	
STATE		KS	
Permanent Datum		GL	Elev. 2830.0 ft
Log measured from		KB	Elev. 2841.0 ft
Drilling measured from		KB	Elev. 2830.0 ft
Date	26-Sep-22		
Run No.	ONE		
Depth - Driller	5173.0 ft		
Depth - Logger	5167.0 ft		
Bottom - Logged Interval	5140.0 ft		
Top - Logged Interval	1798.0 ft		
Casing - Driller	8.625 in	@	
Casing - Logger	1798.0 ft	@	
Bit Size	7.875 in	@	
Type Fluid in Hole	Water Based Mud		
Density	9.2 ppg	50.00	s/qt
PH	11.00 pH	5.6	optm
Source of Sample	MUDPIT		
Rm @ Meas. Temperature	1.11 ohmm	@	78.00 degF
Rmf @ Meas. Temperature	0.80 ohmm	@	78.00 degF
Rmc @ Meas. Temperature	1.28 ohmm	@	78.00 degF
Source Rmf	CALC		
Rm @ BHT	0.70 ohmm	@	128.0 degF
Time Since Circulation	05.34 hr		
Time on Bottom	26-Sep-22 20:07		
Max. Rec. Temperature	128.00 degF	@	5165.0 ft
Equipment	12128583		ALVARADO, T.
Recorded By	K. BIJERGA		
Witnessed By	K. ROBINSON		
COMPANY		MERIT ENERGY COMPANY, LLC	
WELL		CELONA No. 1-12	
FIELD/BLOCK		ST LOUIS	
COUNTY		FINNEY	
STATE		KS	
API No.	15055225510100	Other Services: GTET DSNT-SDLT BSAT ACRT	
Location	267' FWL & 458' FNL SW NW NW NW		
Sect.	12	Twp.	25S
Rge.			32W
Elev.	2830.0 ft		
Elev.	K.B.		2842.0 ft
D.F.			2841.0 ft
G.L.			2830.0 ft

Fold here

Sales Order Number: 908128151				API No.: 15055225510100				PGM Version: WL INSITE R6.6.7 (Build 8)			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES					
Date	Sample No.			Type Log	Depth	Scale Up Hole	Scale Down Hole				
Depth-Driller											
Type Fluid in Hole											
Density	Viscosity										
Ph	Fluid Loss										
Source of Sample						RESISTIVITY EQUIPMENT DATA					
Rm @ Meas. Temp		@		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other			
Rmf @ Meas. Temp.		@									
Rmc @ Meas. Temp.		@									
Source Rmf	Rmc										
Rm @ BHT		@									
Rmf @ BHT		@									
Rmc @ BHT		@									
EQUIPMENT DATA											
GAMMA			ACOUSTIC			DENSITY			NEUTRON		
Run No.	ONE		Run No.	ONE		Run No.			Run No.		
Serial No.	11405267		Serial No.	10747681		Serial No.			Serial No.		
Model No.	GTET		Model No.	BSAT		Model No.			Model No.		
Diameter	3.625"		No. of Cent.	2		Diameter			Diameter		
Detector Model No.	GTET		Spacing	0.5		Log Type			Log Type		
Type	SCINT					Source Type			Source Type		
Length	8"		LSA [Y/N]	Y		Serial No.			Serial No.		
Distance to Source	10'		FWDA [Y/N]	Y		Strength			Strength		
LOGGING DATA											

GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON		
Run No.	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix
	From	To	ft/min	L	R	L	R		L	R	
ONE	5167'	1798'	REC	0gapi	150gapi	0.3decP	0.0decP	47.6 uspf			

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@
-------------------	---	-----	---

Remarks: FIRST LOG ON WELL, POSITIVE DEPTH CONTROL APPLIED

SCALES AND PRESENTATIONS AS PER CLIENT REQUEST

TOOLS RAN IN COMBINATION AS PER TOOLSTRING DIAGRAM

ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CREW: C. HERRERA, B. EZEKWU

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

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.

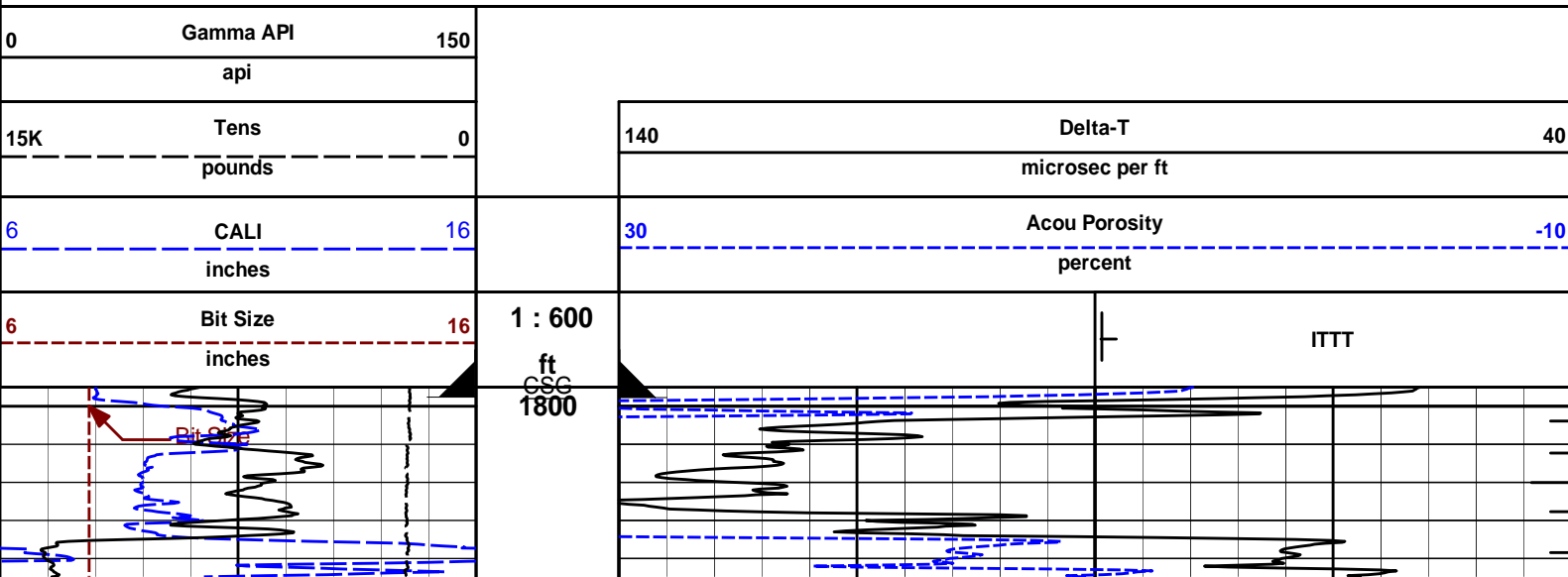
HALLIBURTON

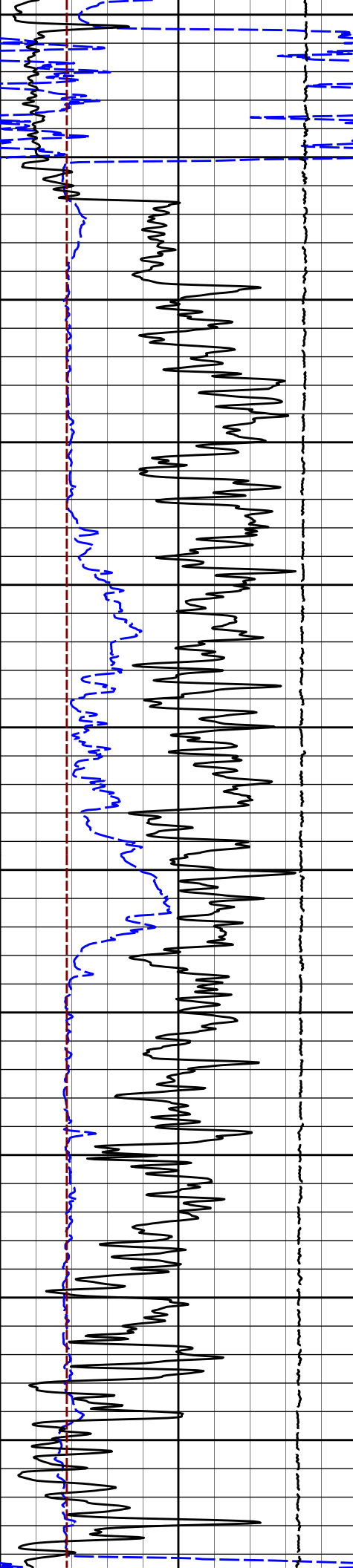


Plot Time: 26-Sep-22 22:04:21
 Plot Range: 1795 ft to 5170.75 ft
 Data: 09_26_MERIT\Well Based\DAQ-MAIN
 Plot File: \\SONIC\BSAT_2inch

2 INCH MAIN LOG

2" MAIN LOG SECTION





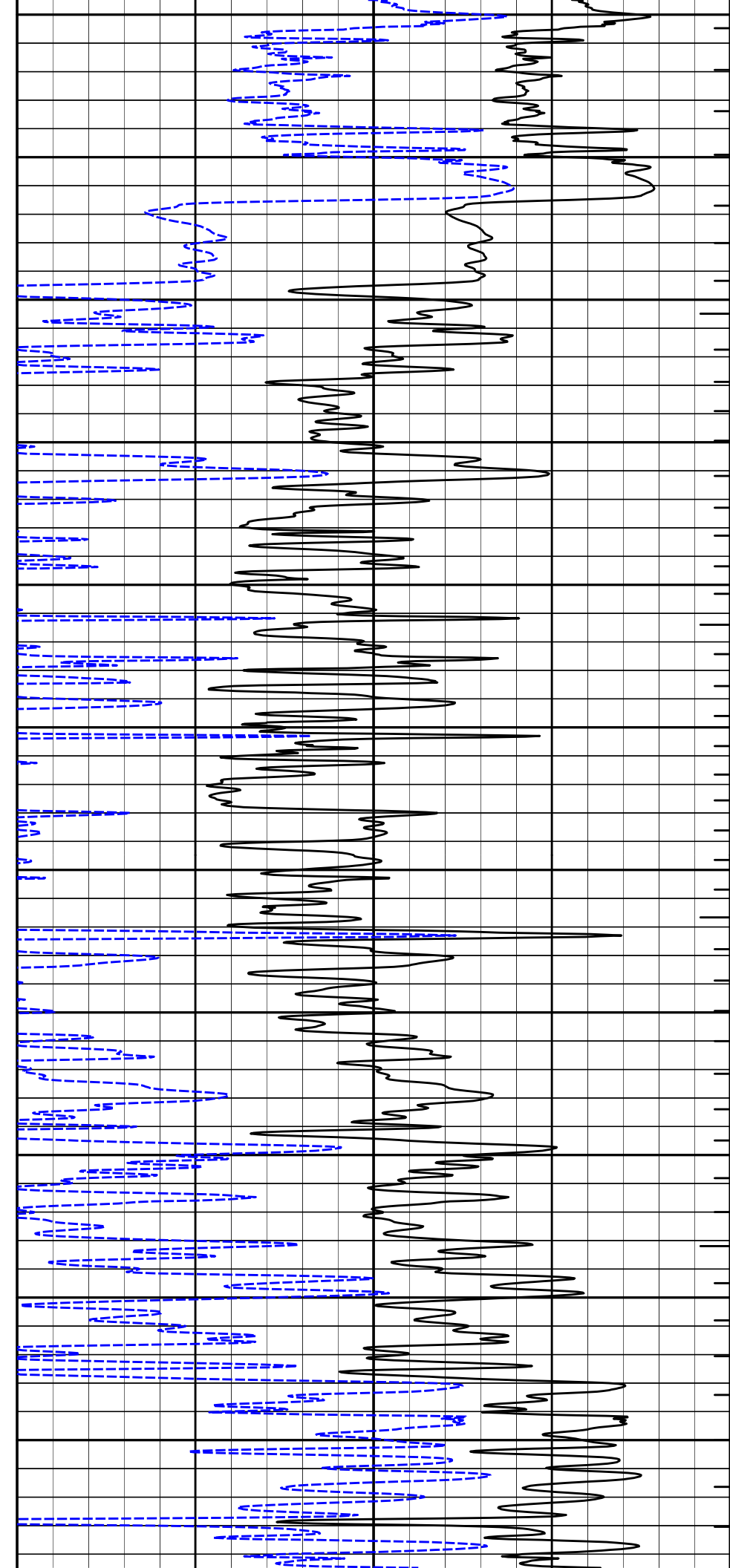
1900

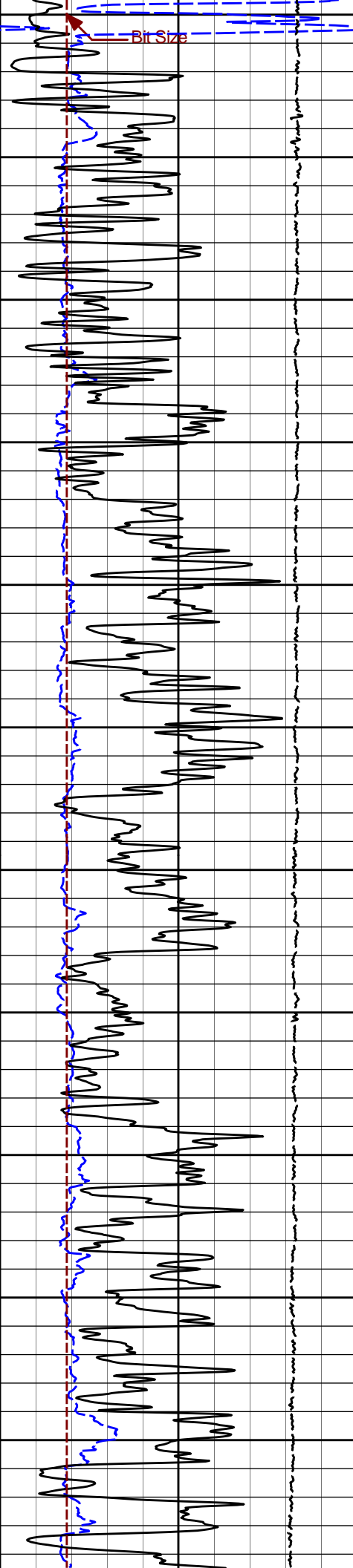
2000

2100

2200

2300





2400

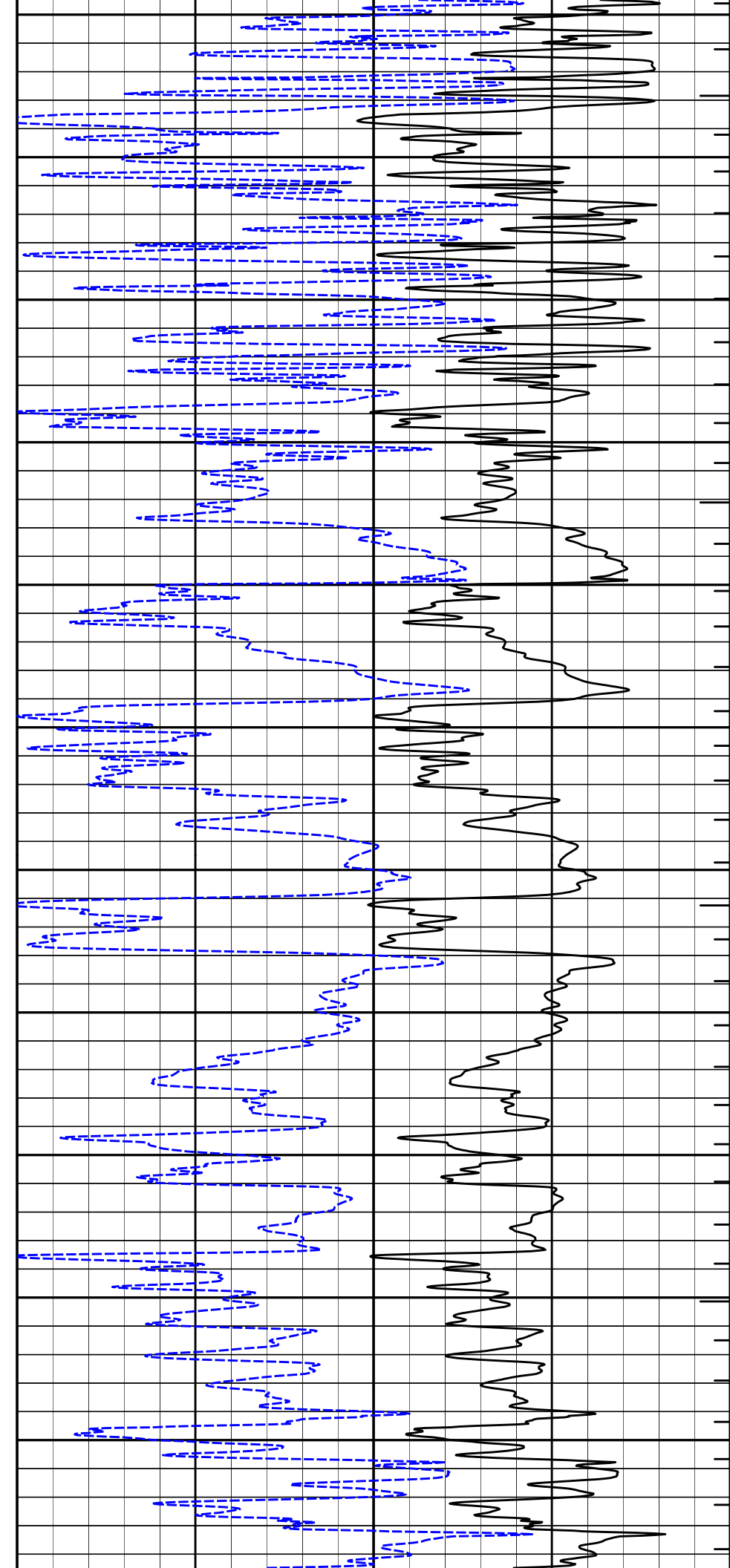
2500

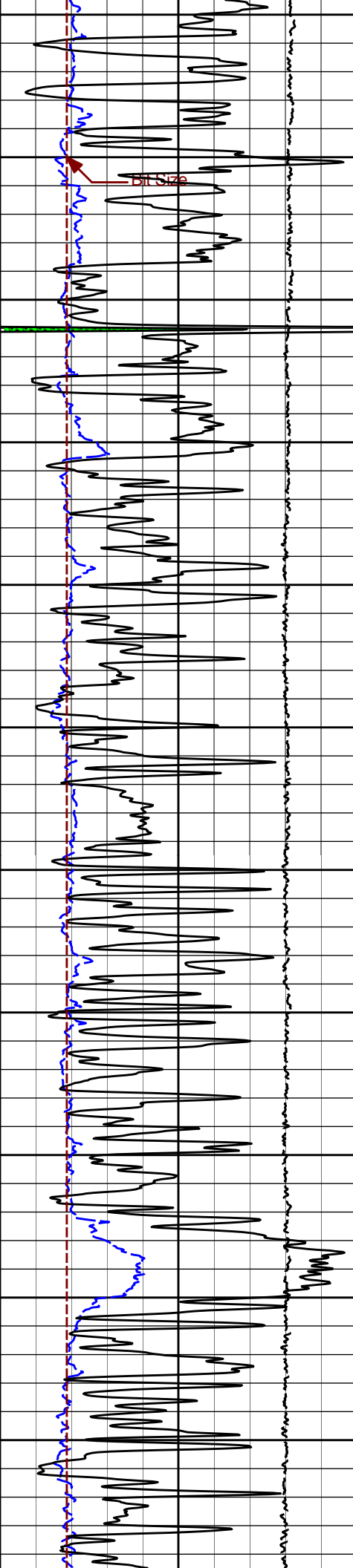
2600

2700

2800

2900





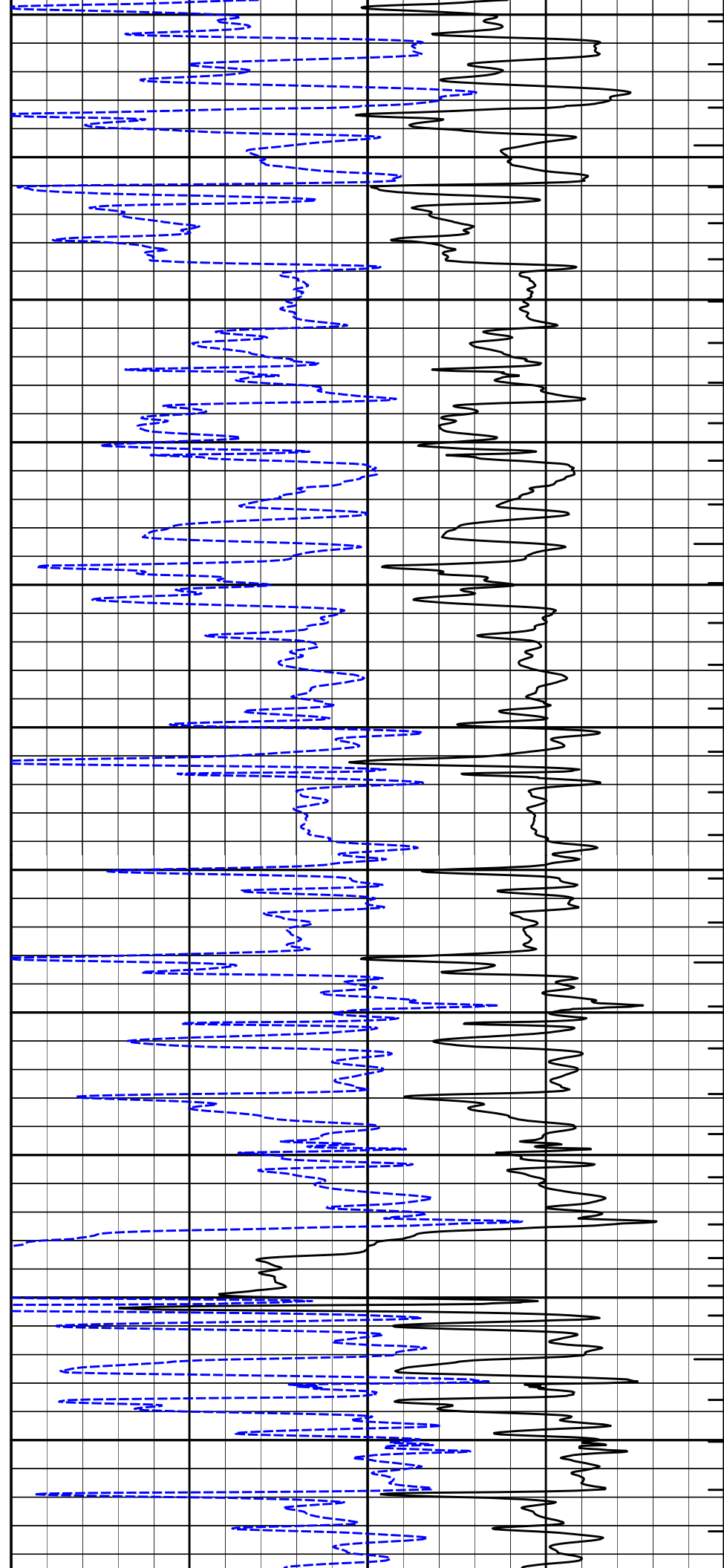
3000

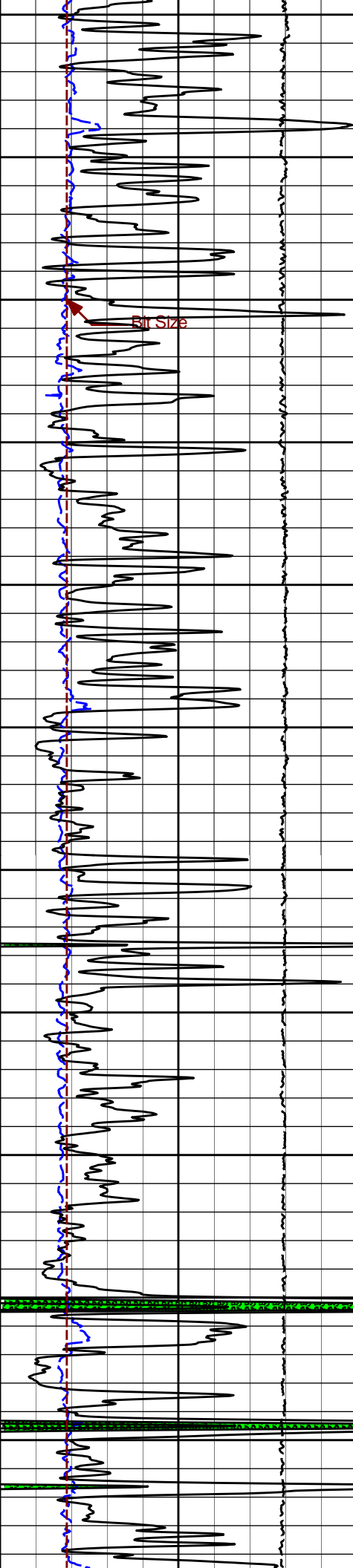
3100

3200

3300

3400





3500

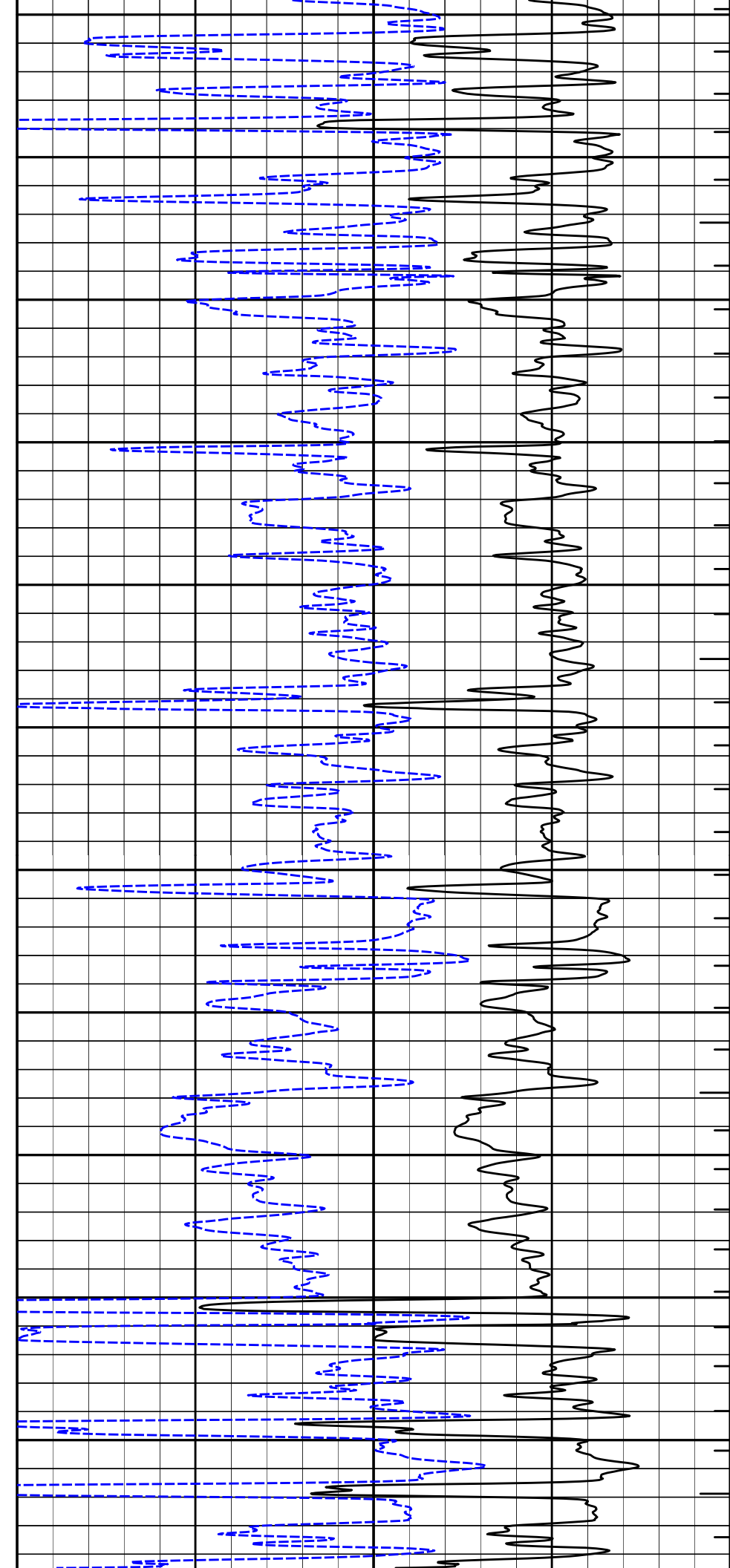
3600

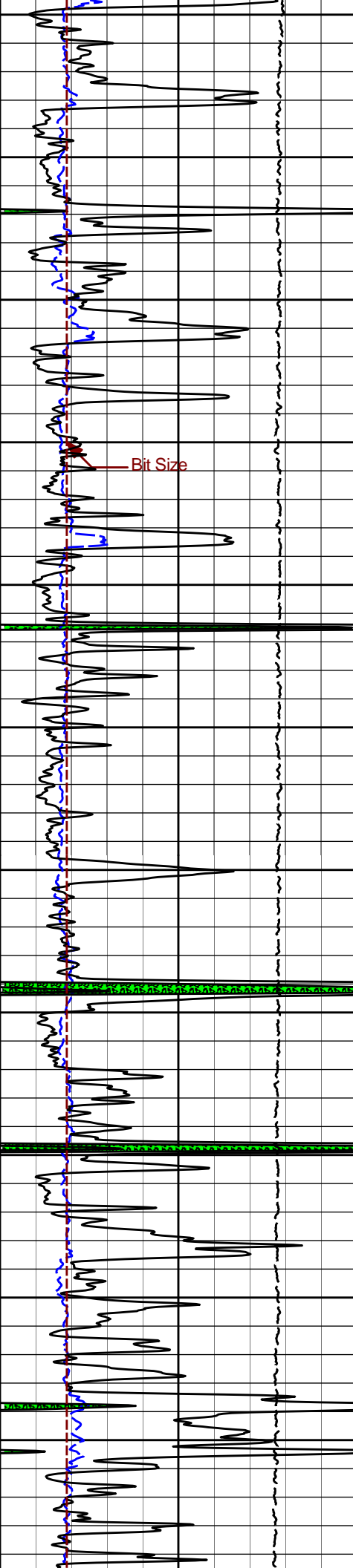
3700

3800

3900

4000





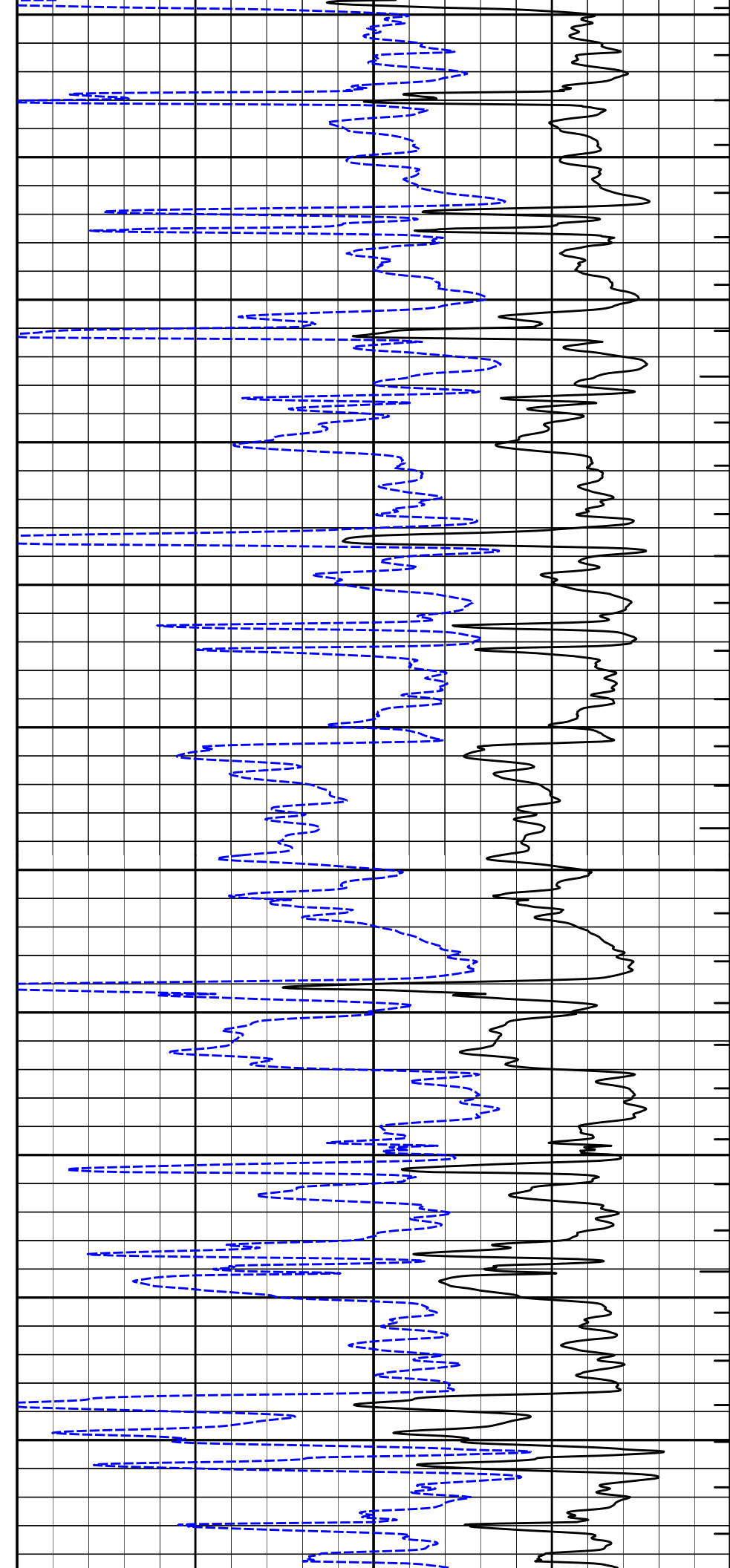
4100

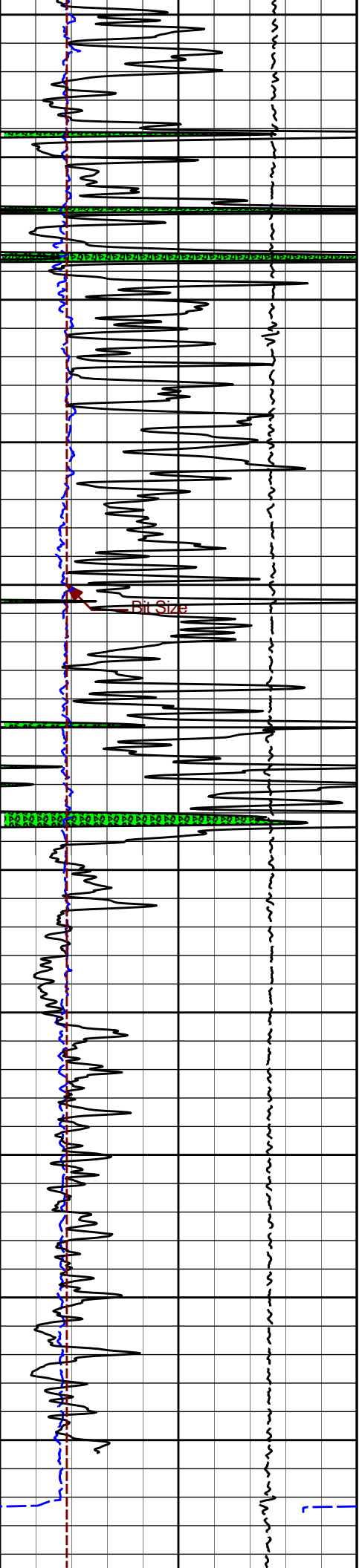
4200

4300

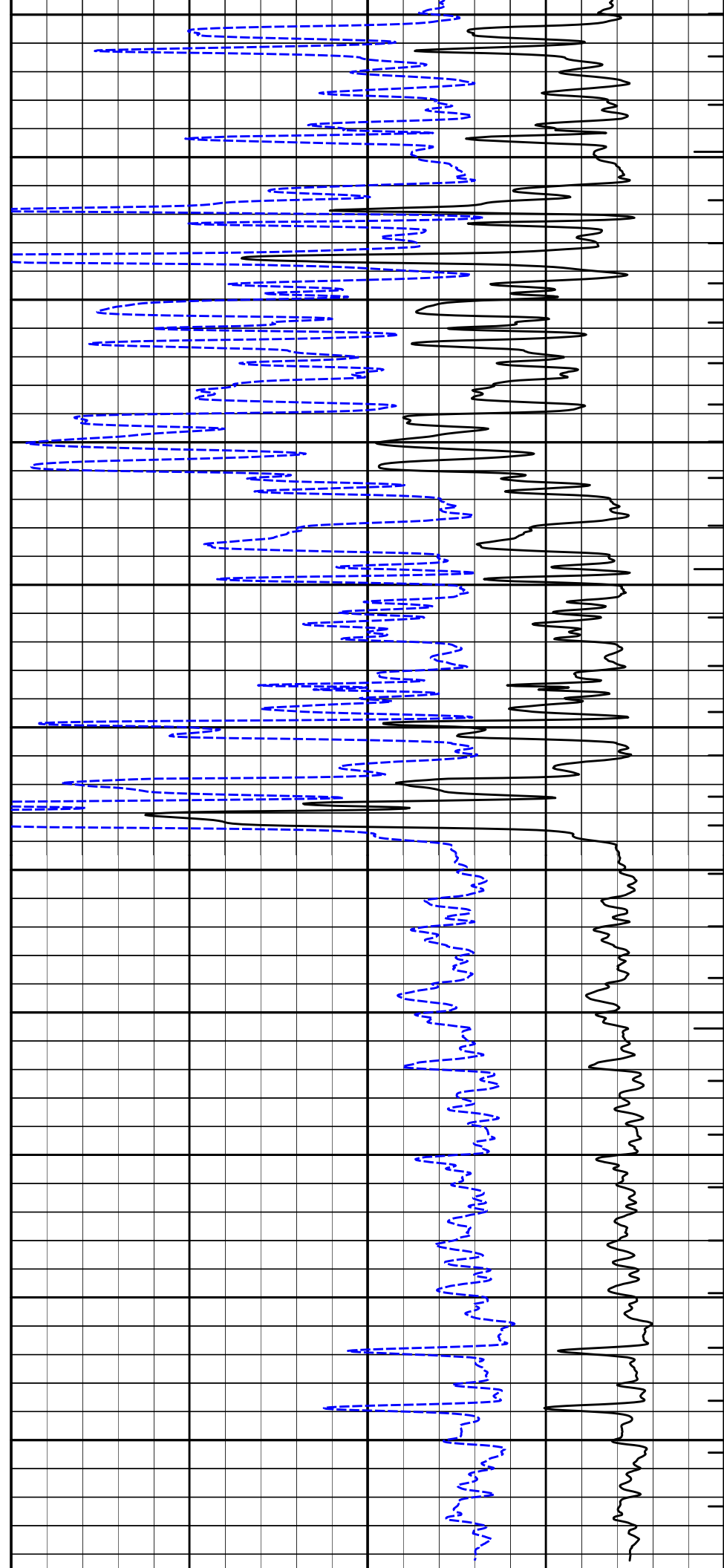
4400

4500





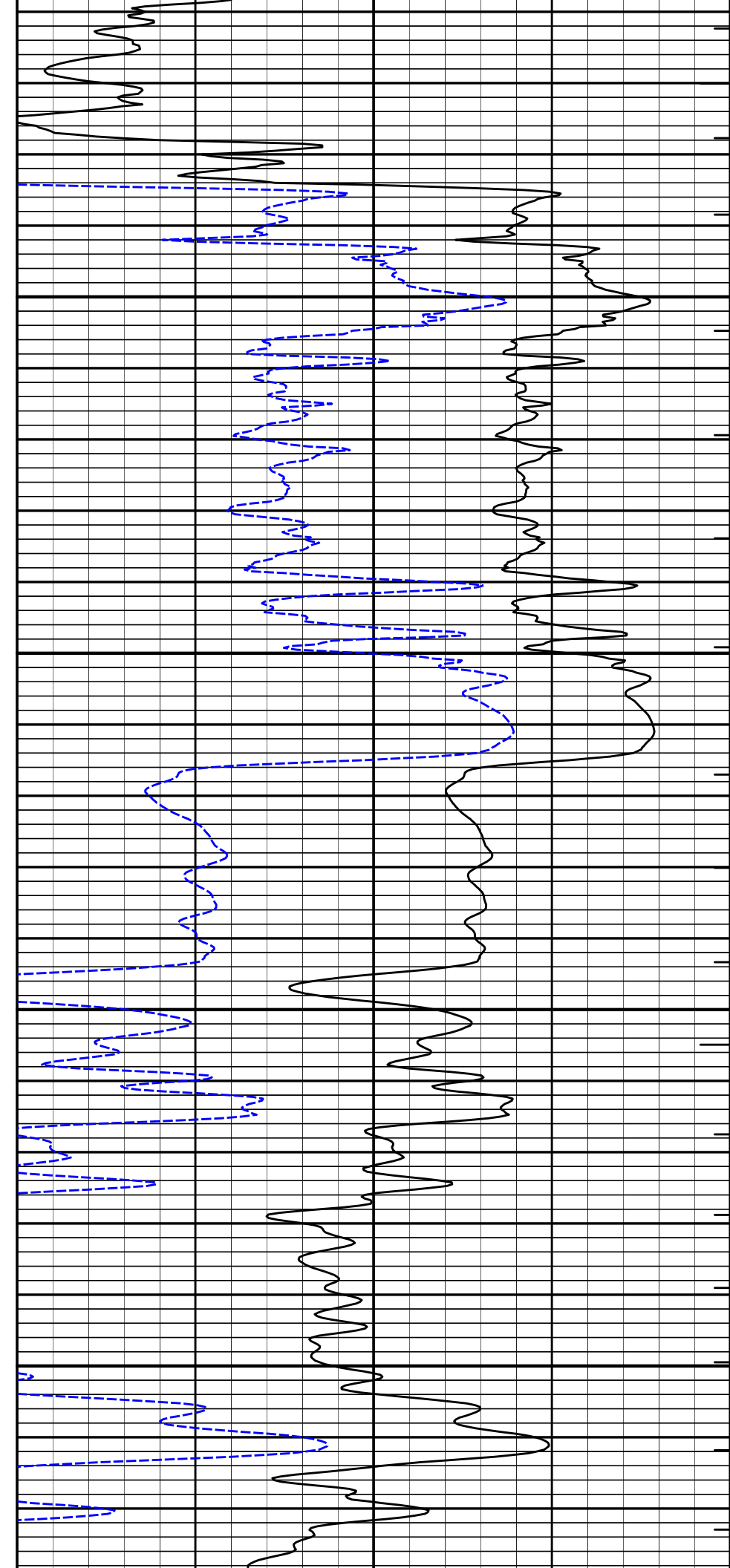
4600
4700
4800
4900
5000
5100

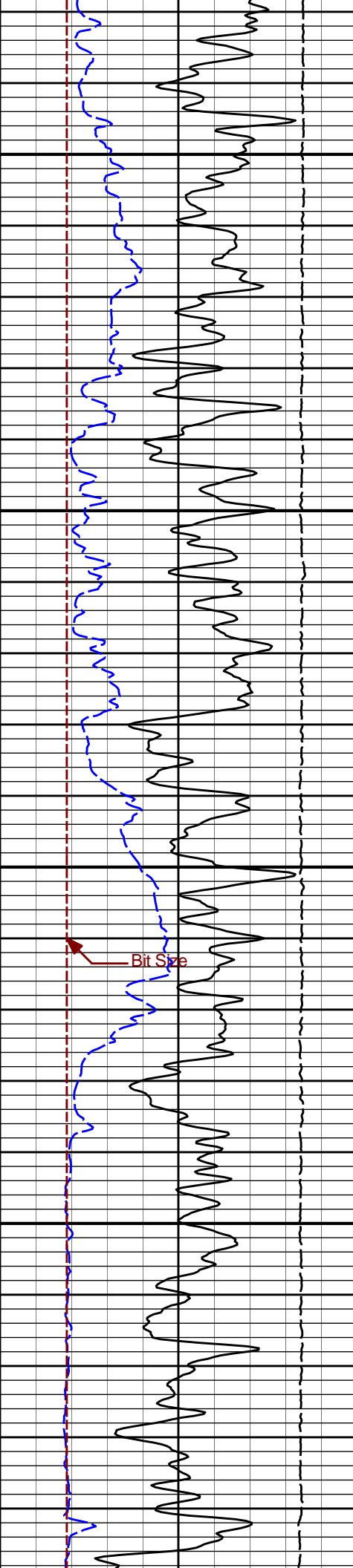




1900

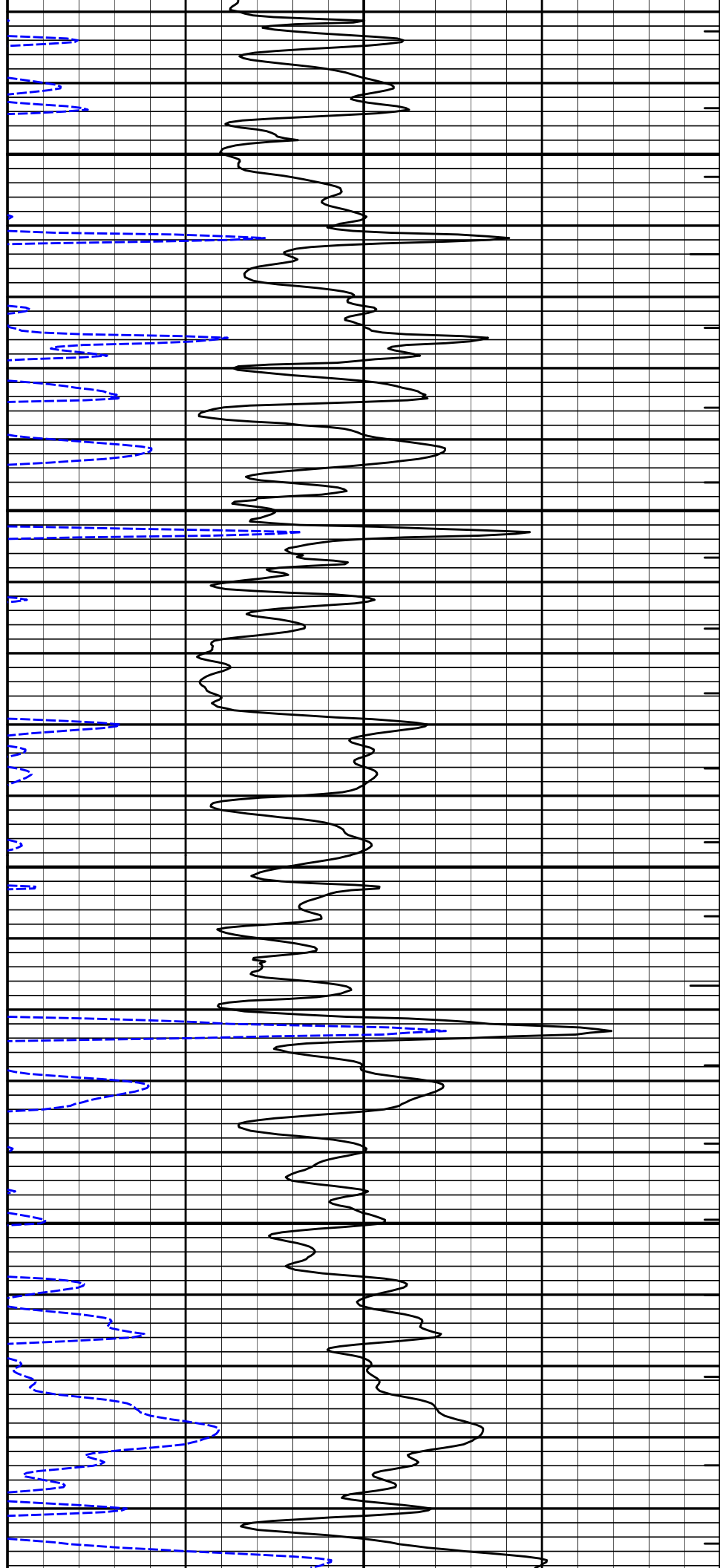
2000

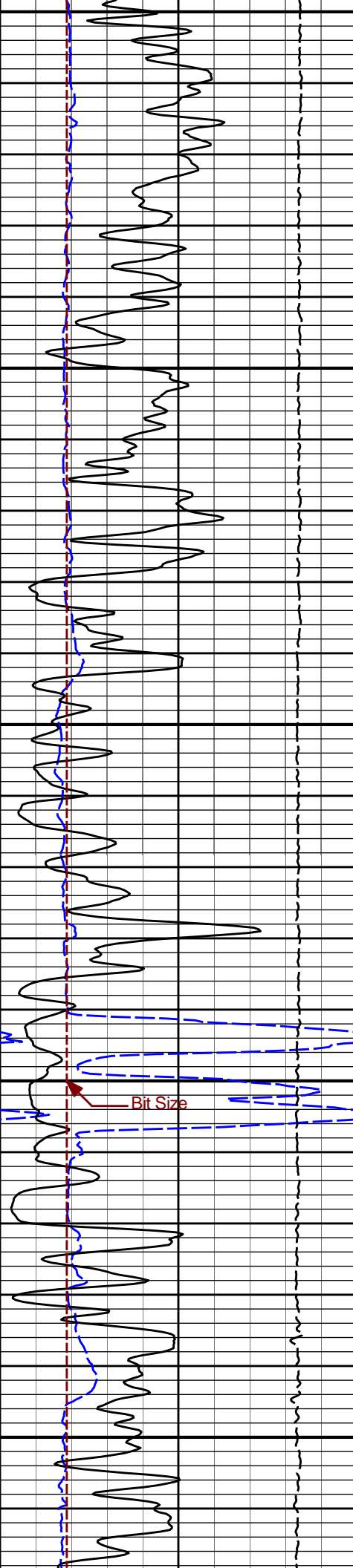




2100

2200

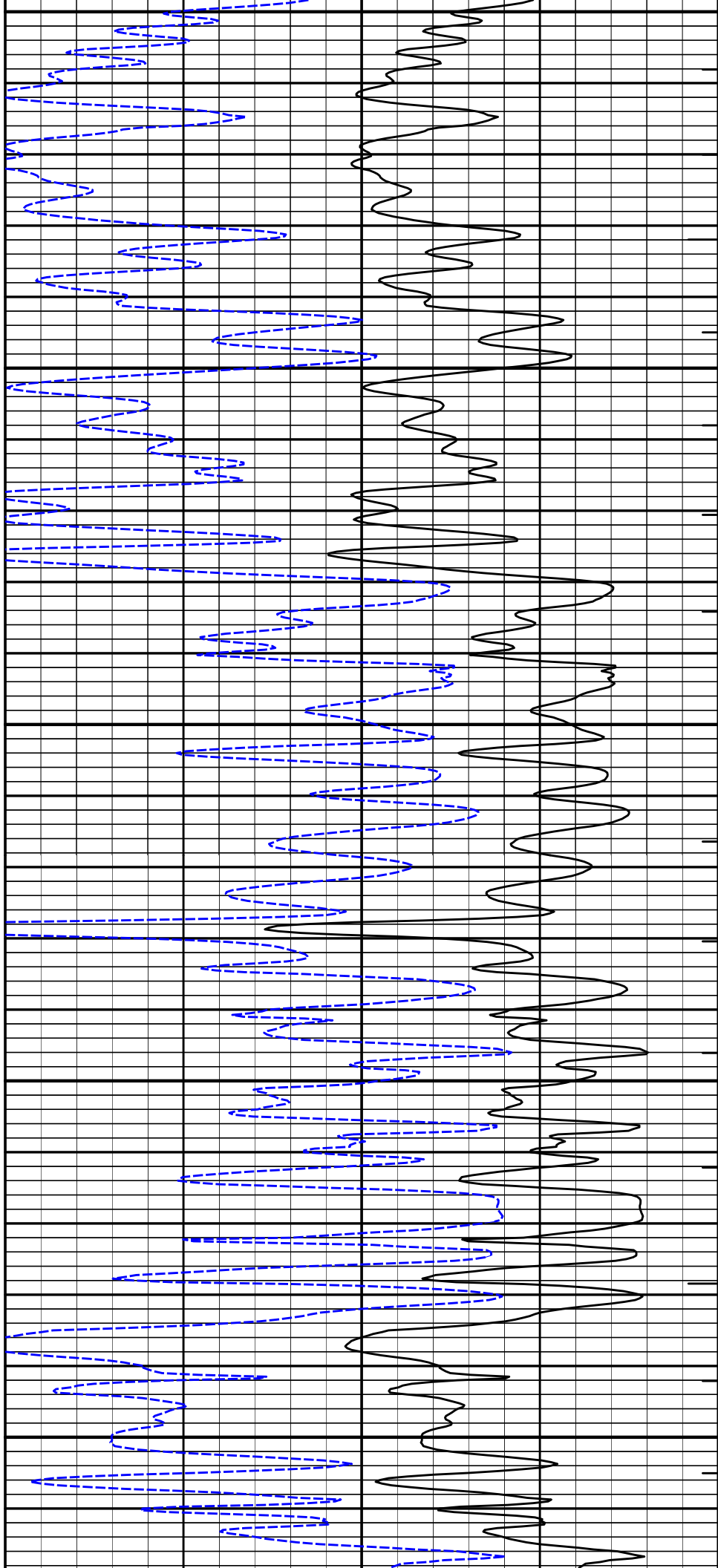


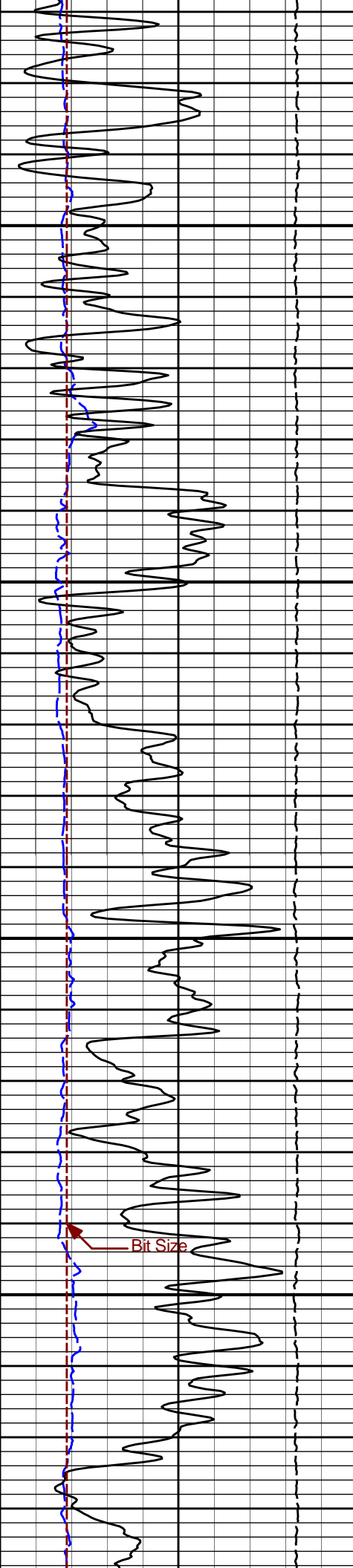


2300

2400

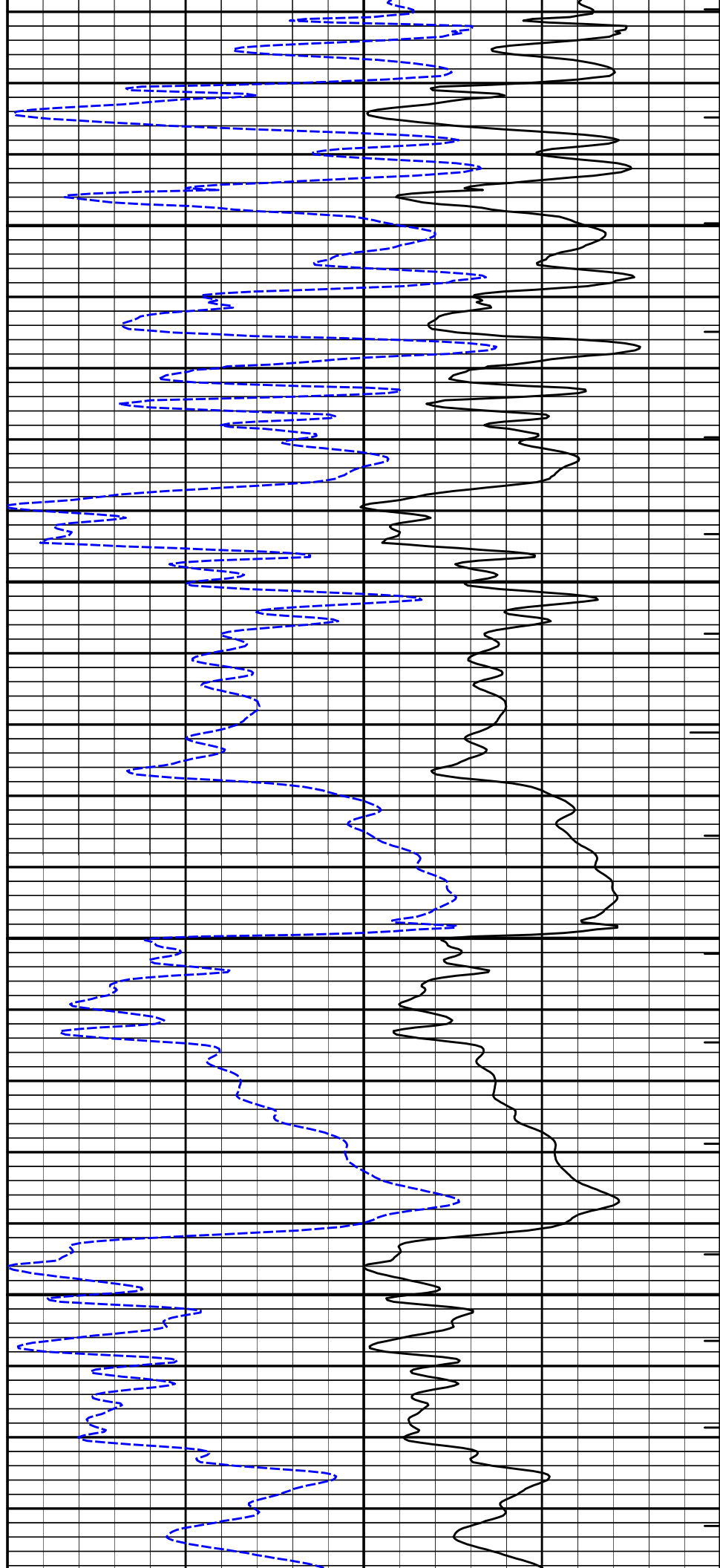
Bit Size

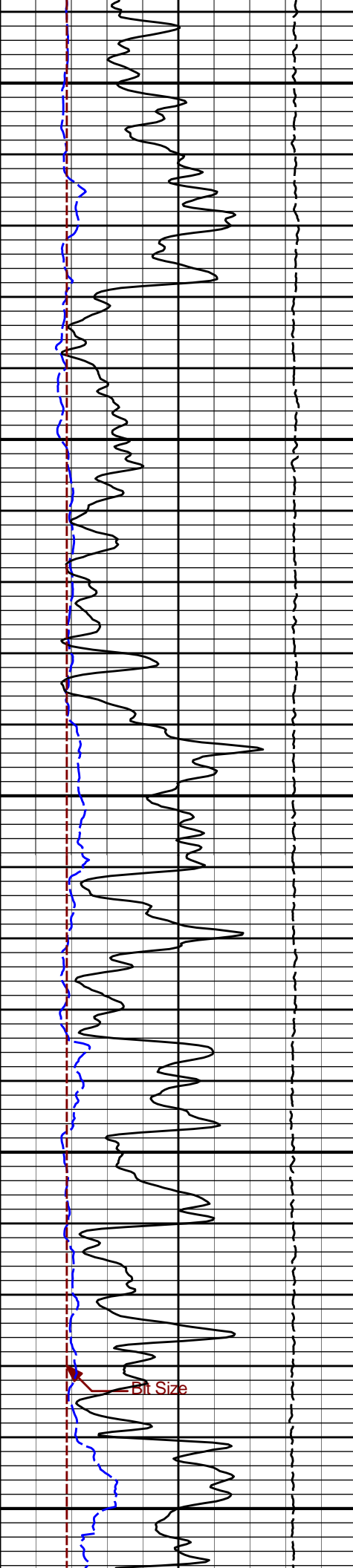




2500

2600

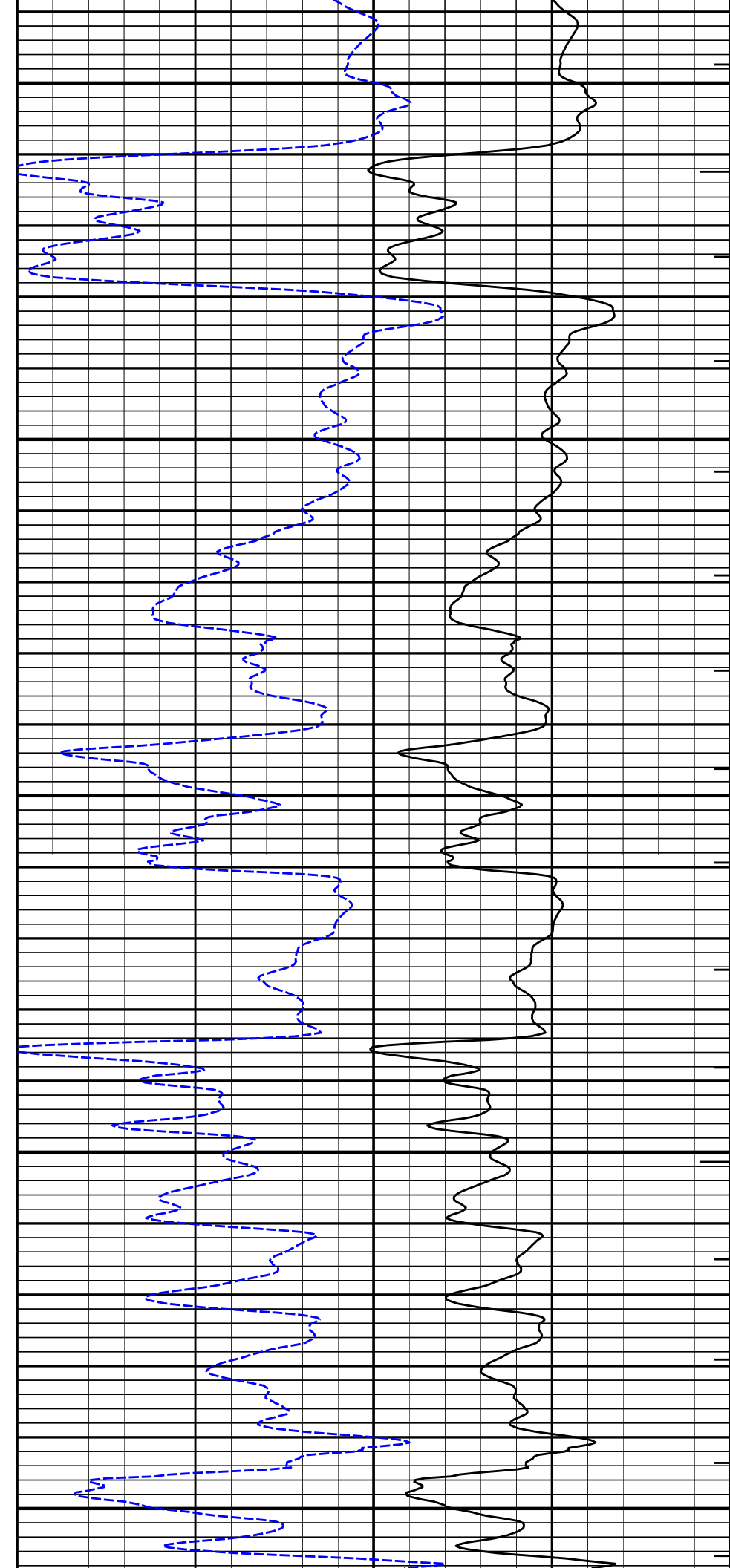


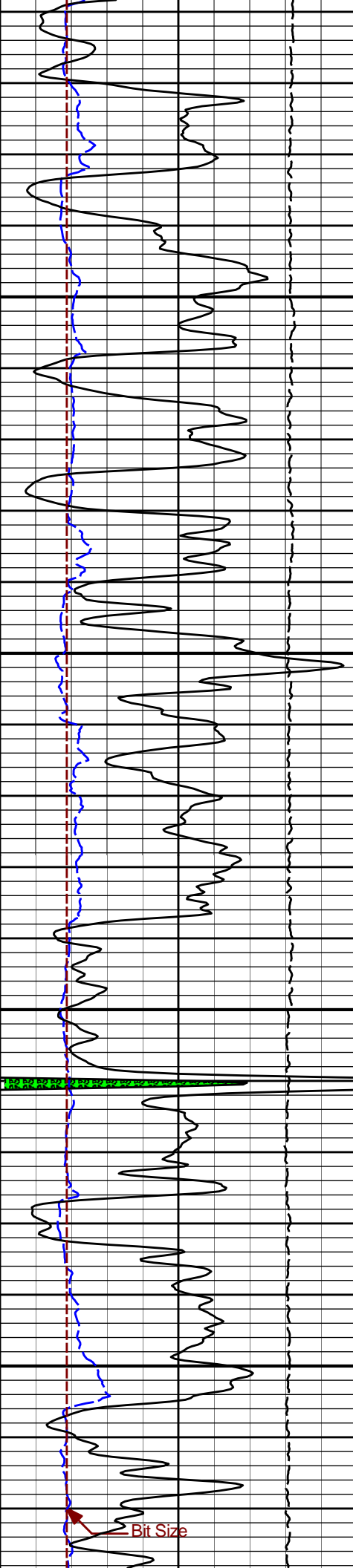


2700

2800

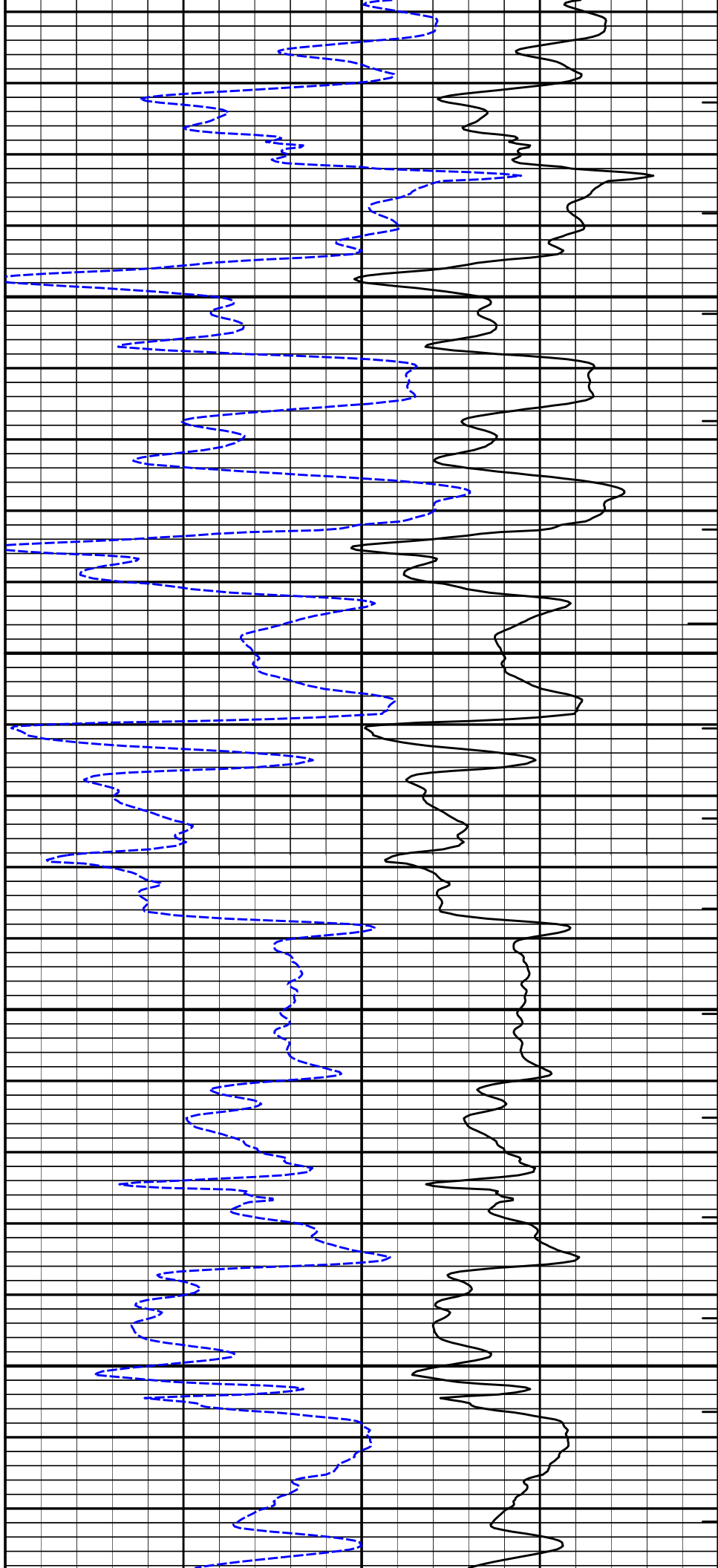
2900

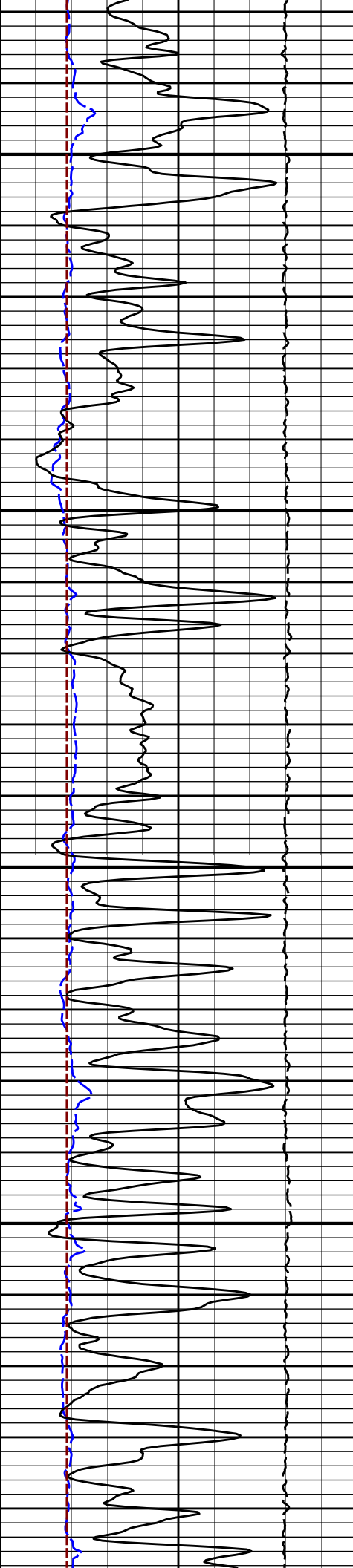




3000

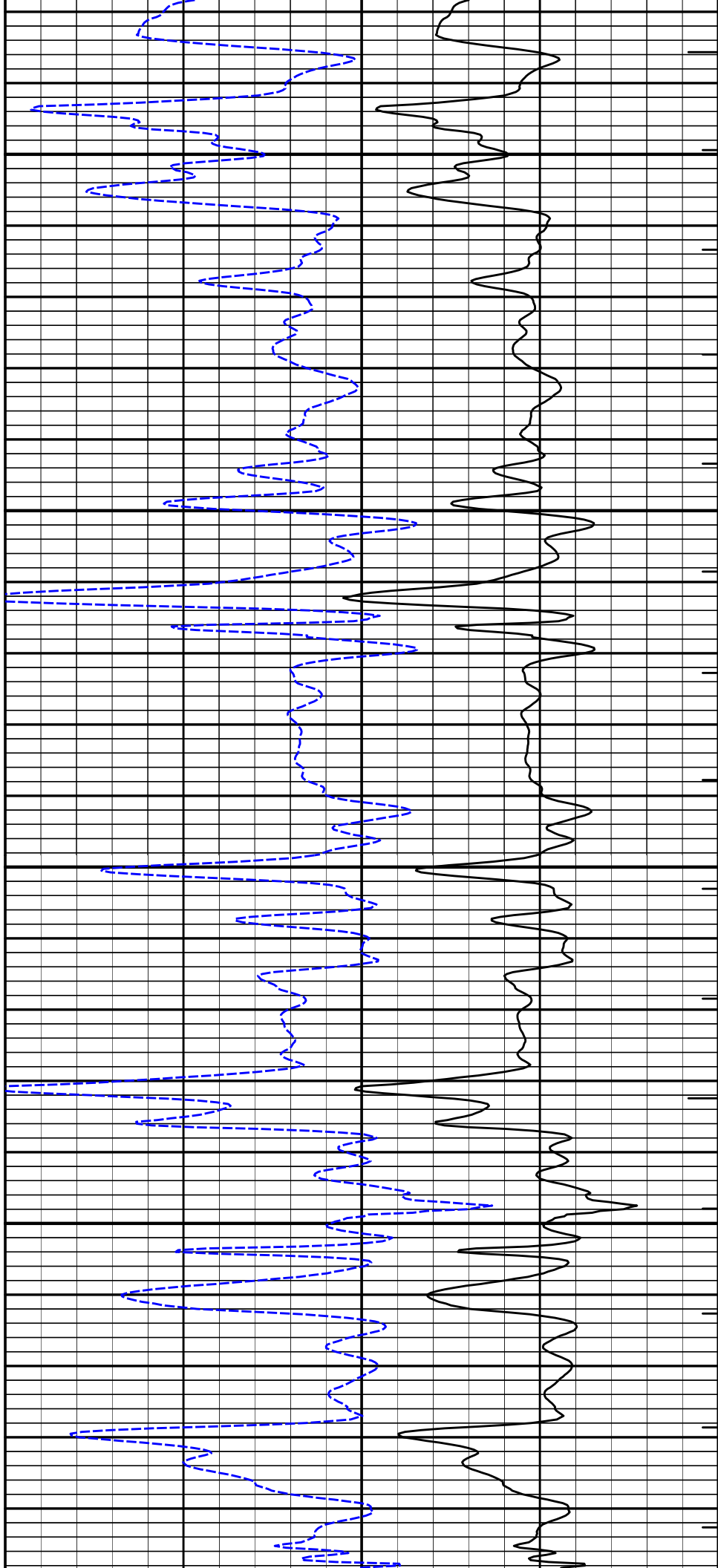
3100

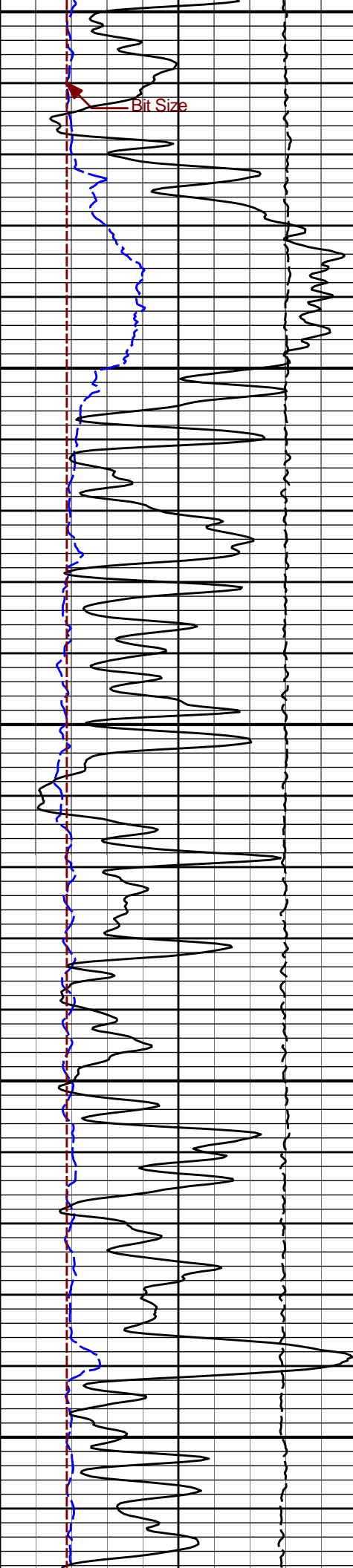




3200

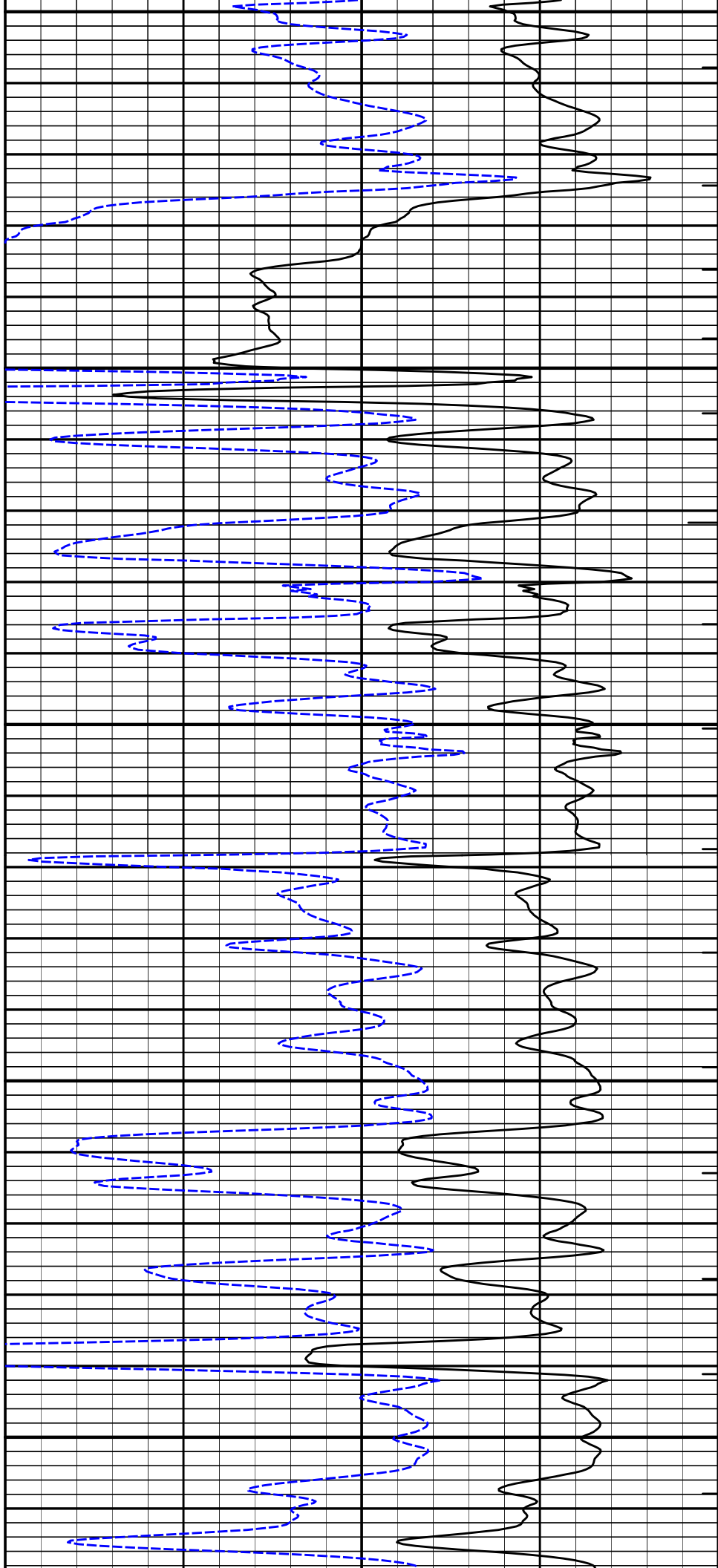
3300

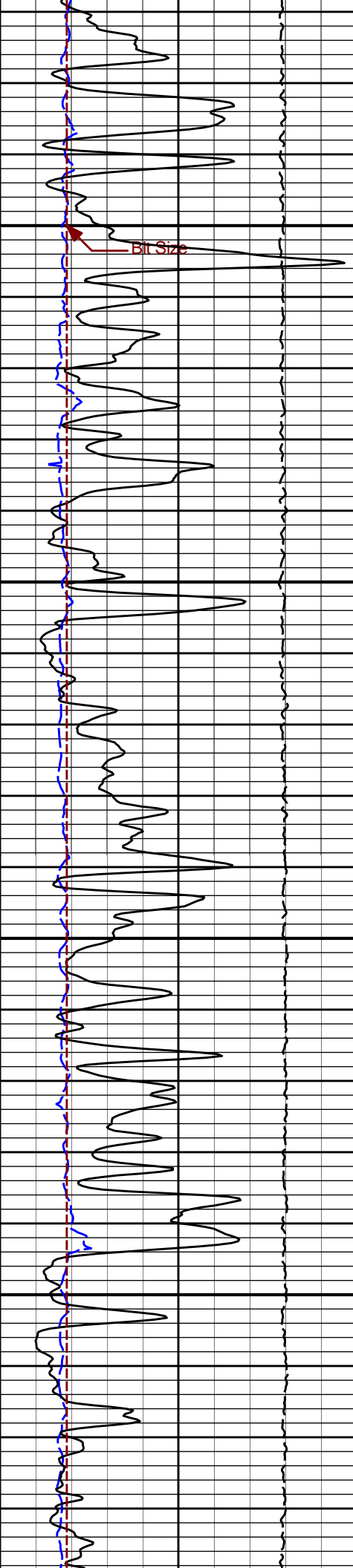




3400

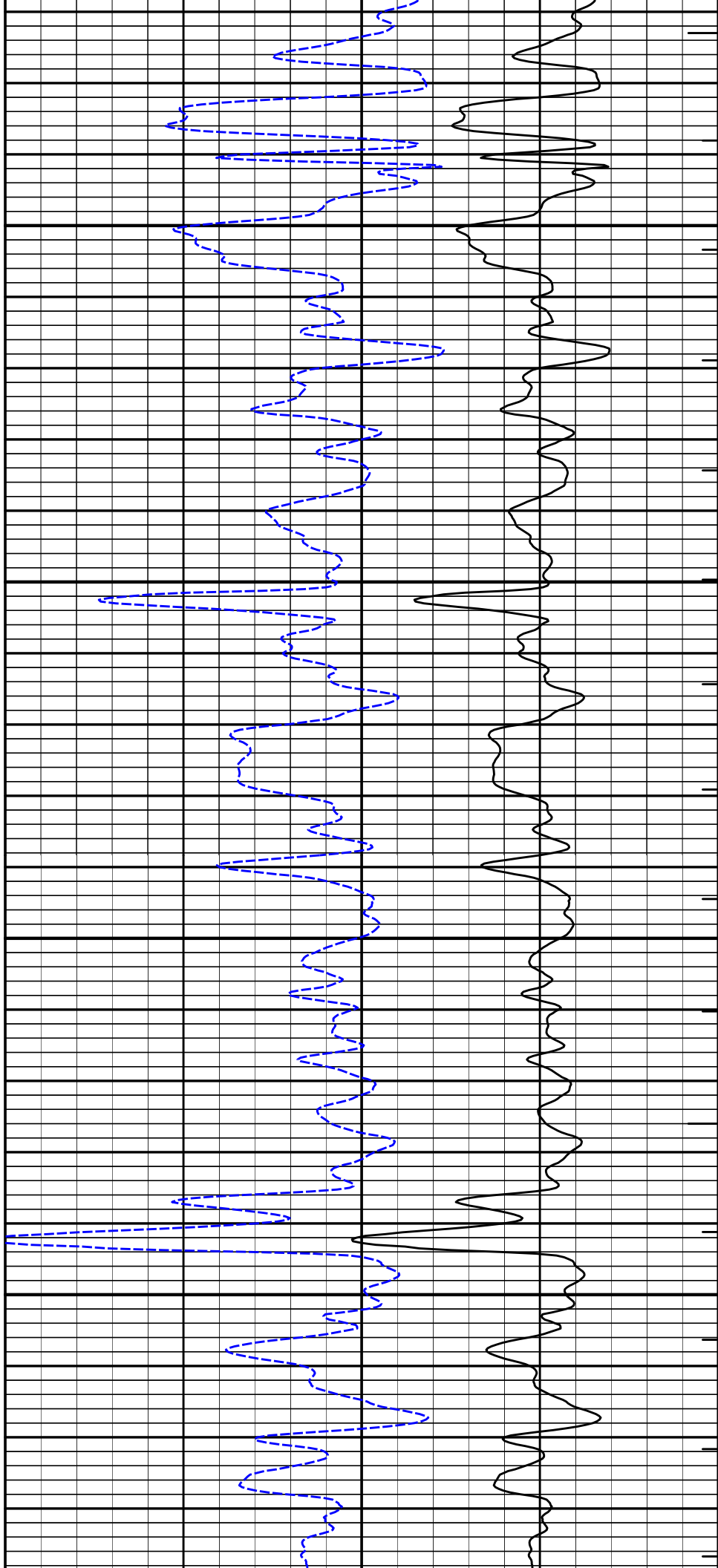
3500

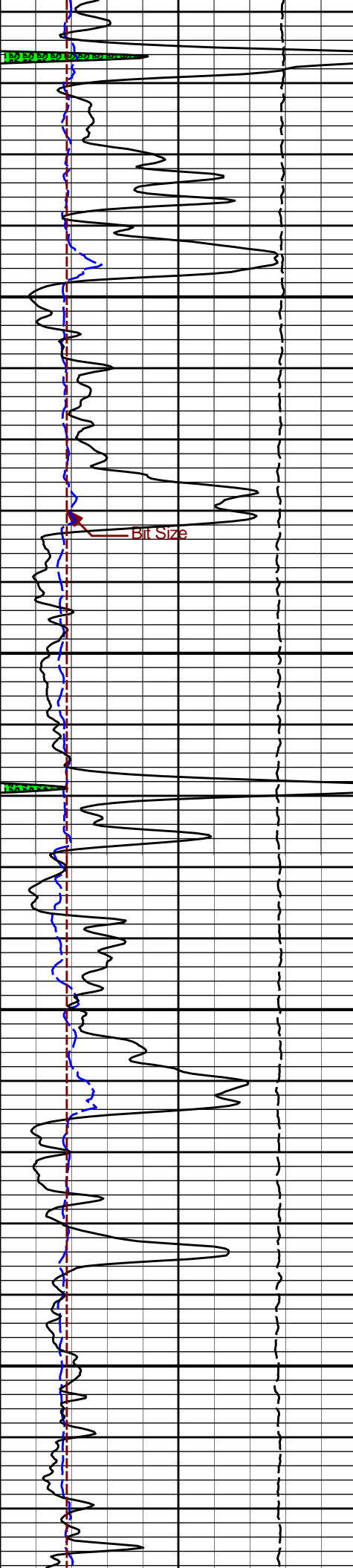




3600

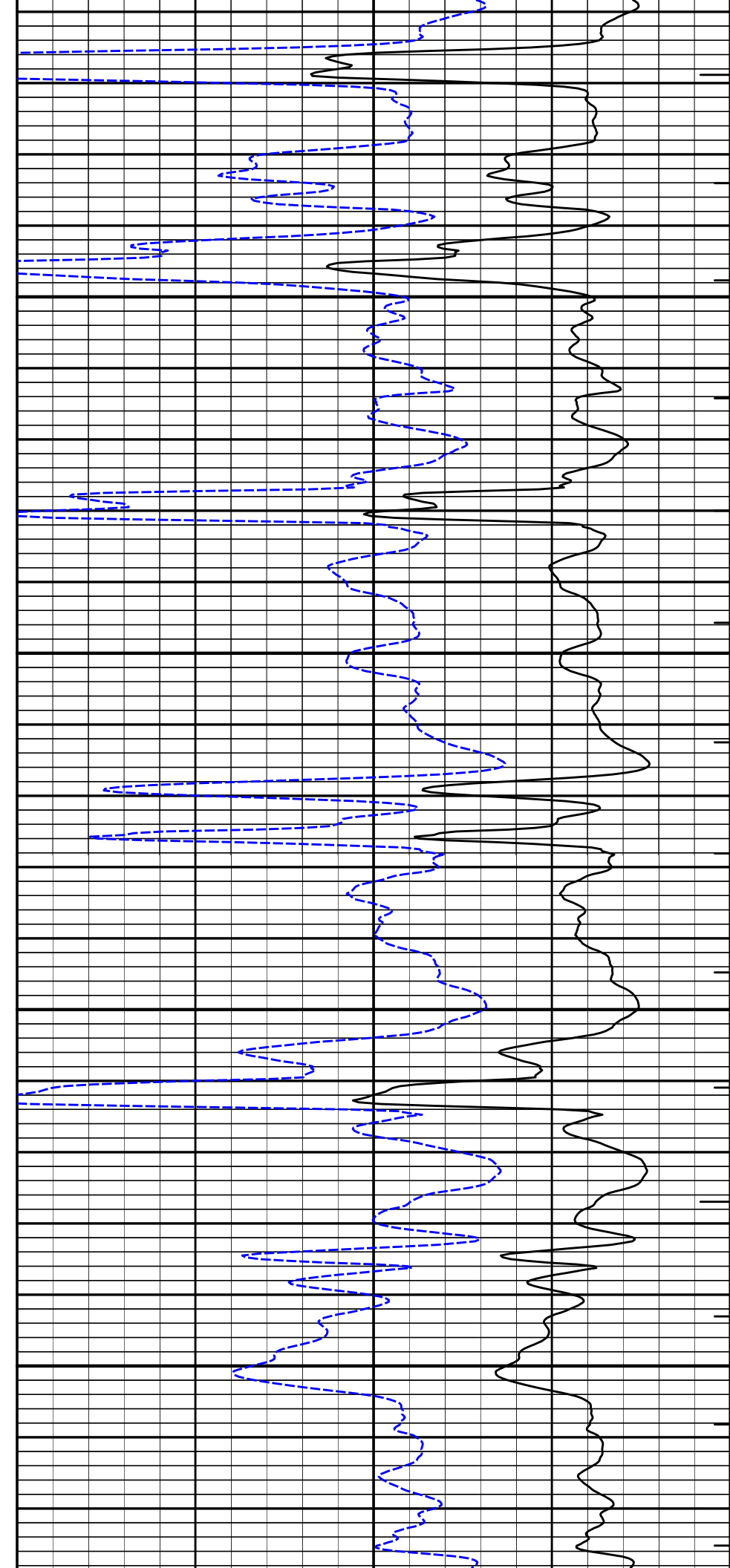
3700

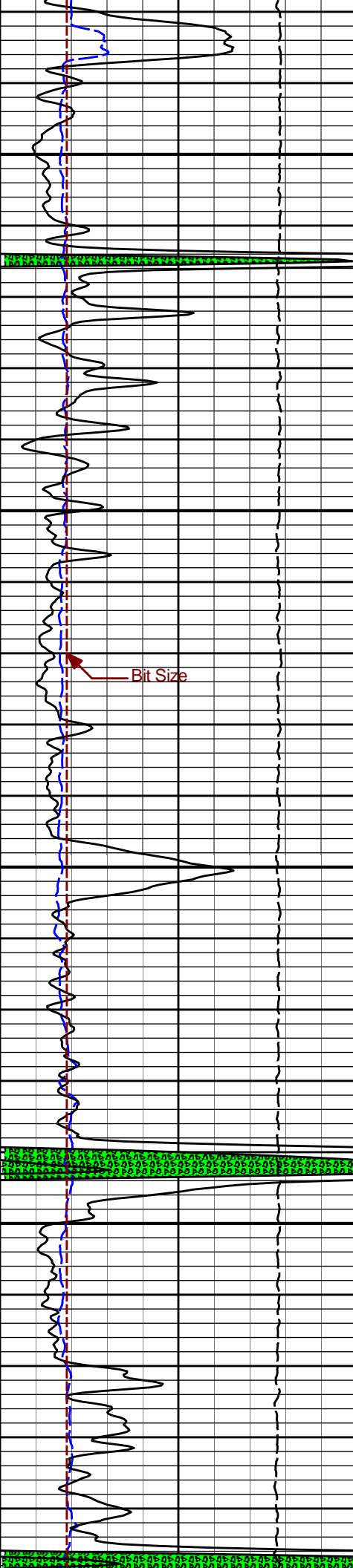




4100

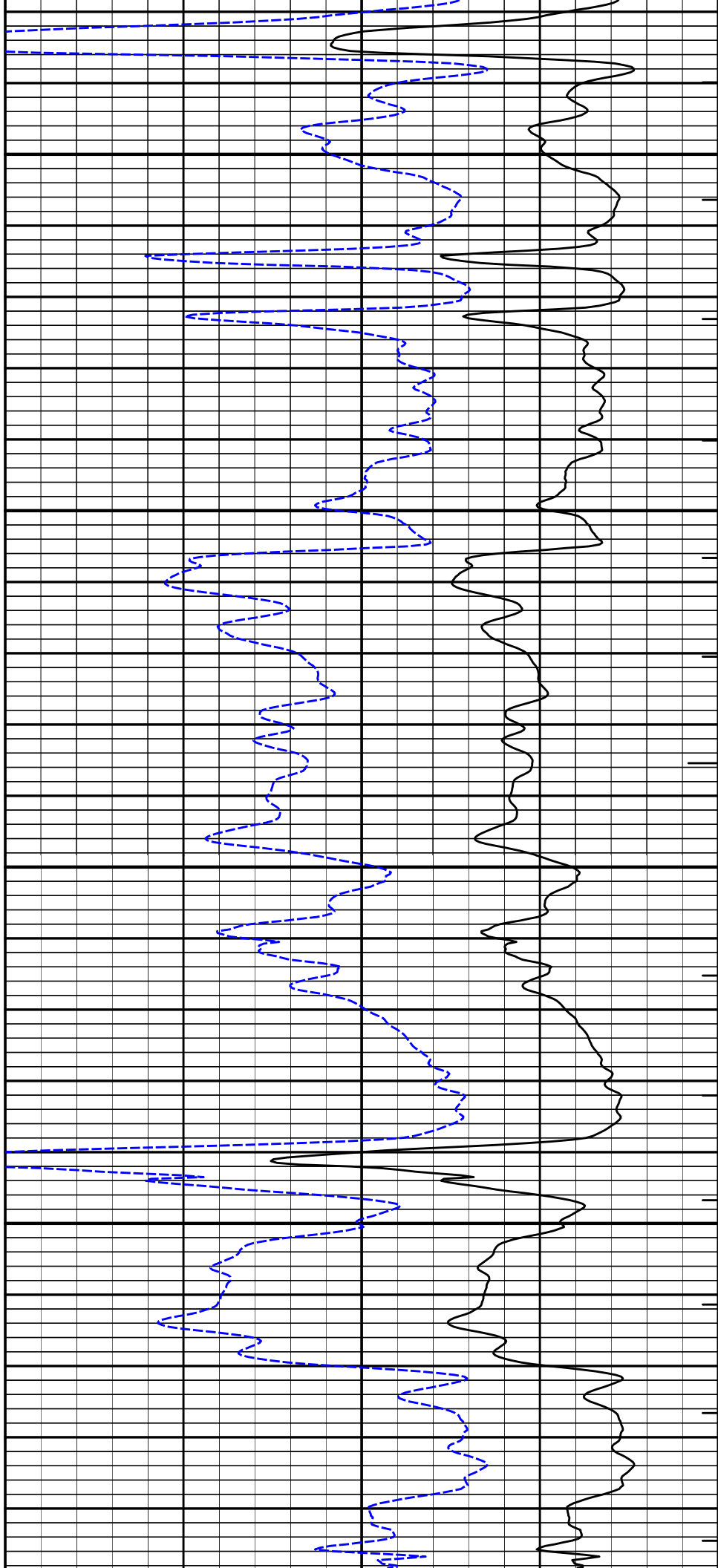
4200

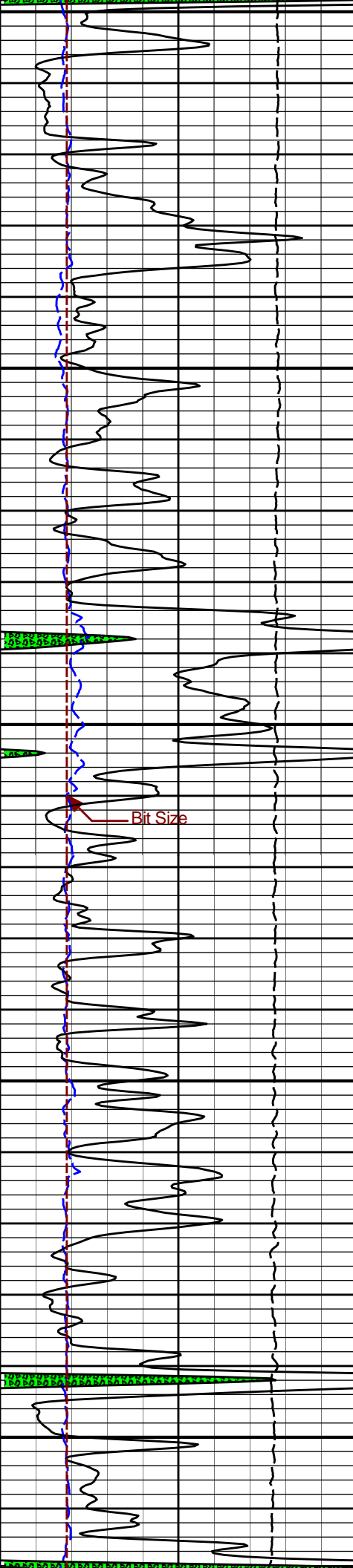




4300

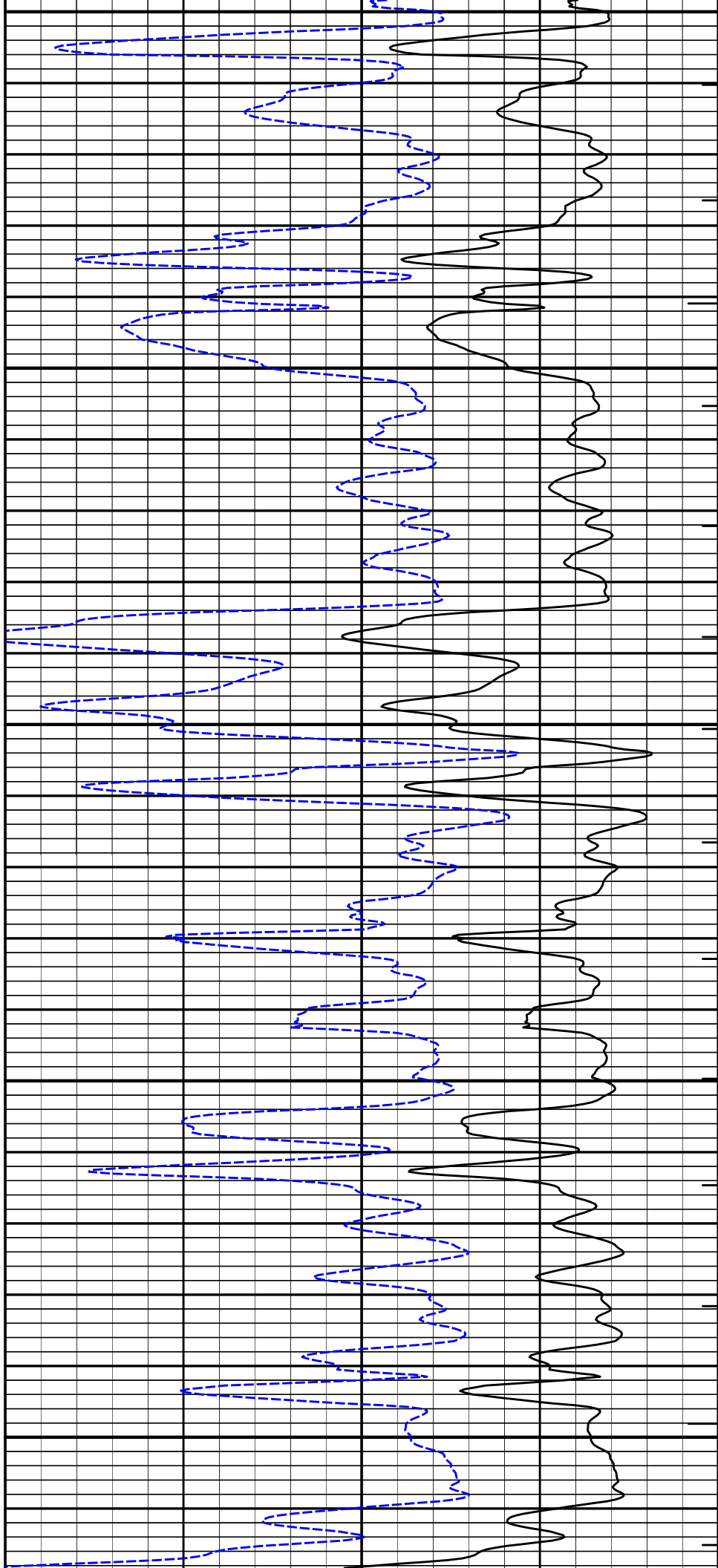
4400

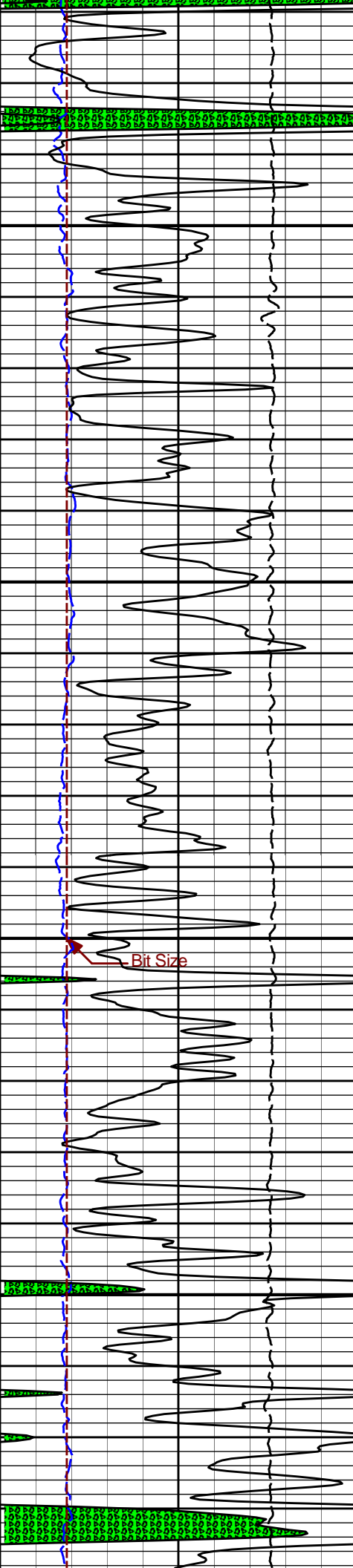




4500

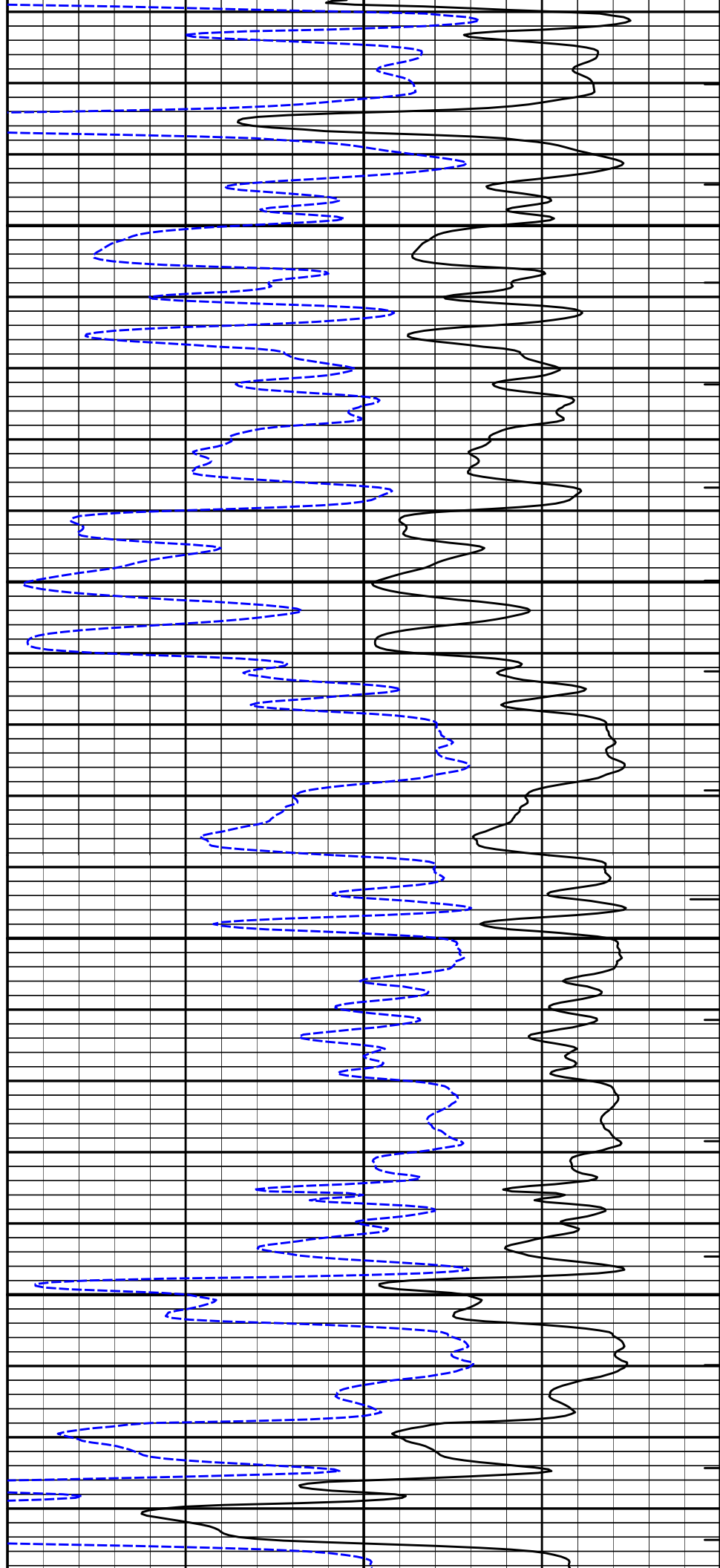
4600

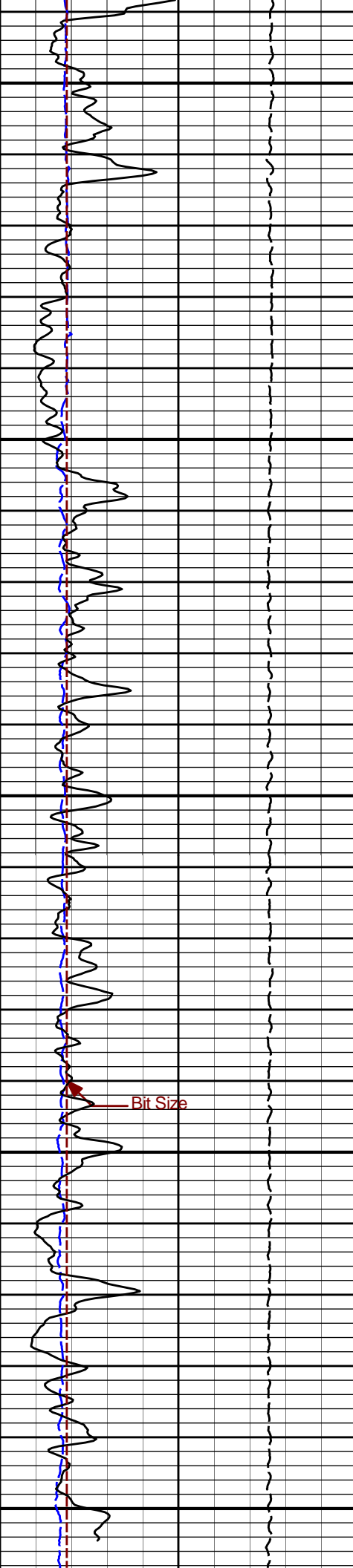




4700

4800

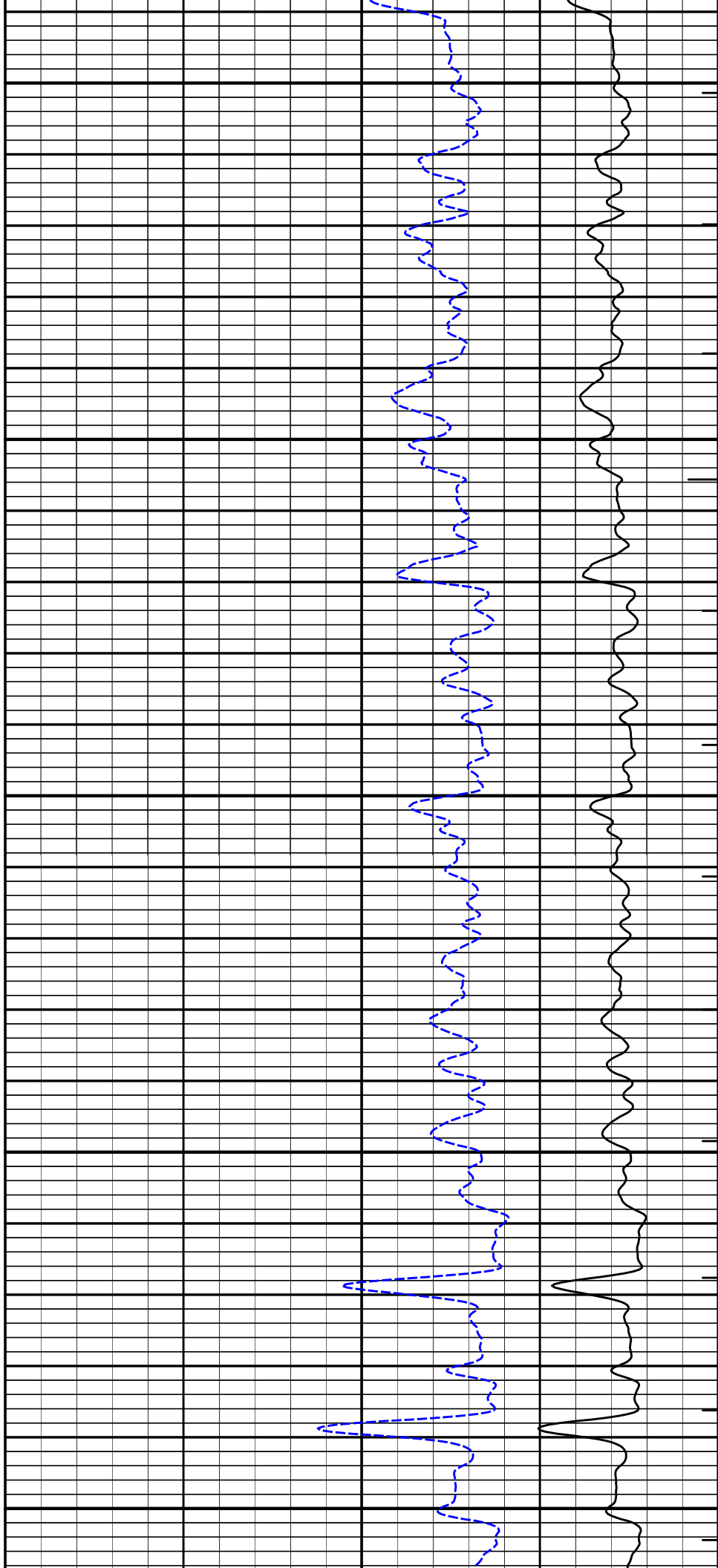




4900

5000

5100

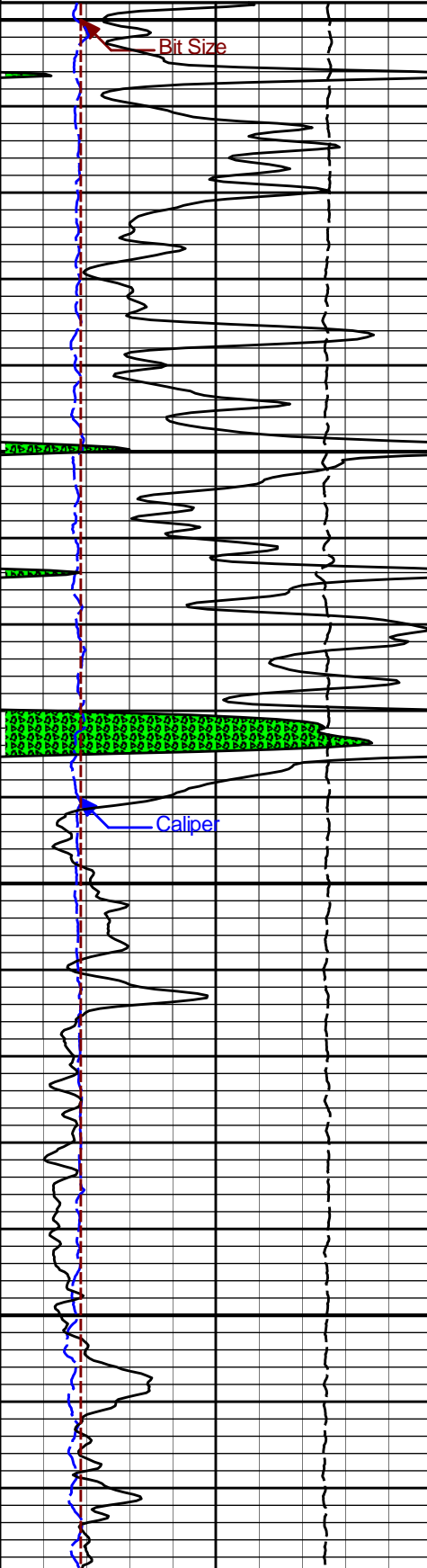


0	Gamma API	150
	api	
15K	Tens	0
	pounds	
6	CALI	16
	inches	
6	Bit Size	16
	inches	

30	Acou Porosity	-10
	percent	
140	Delta-T	40
	microsec per ft	

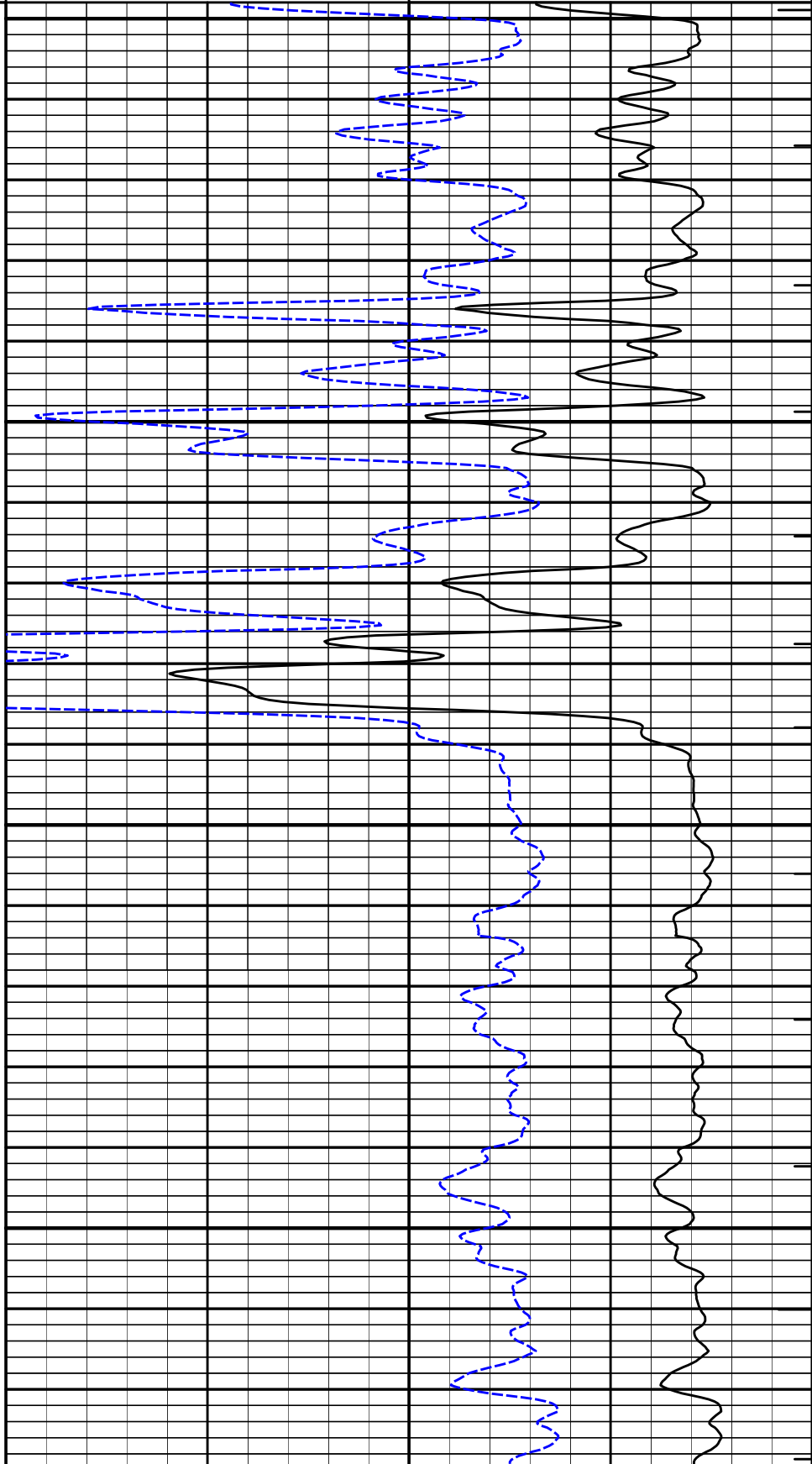
1 : 240
ft

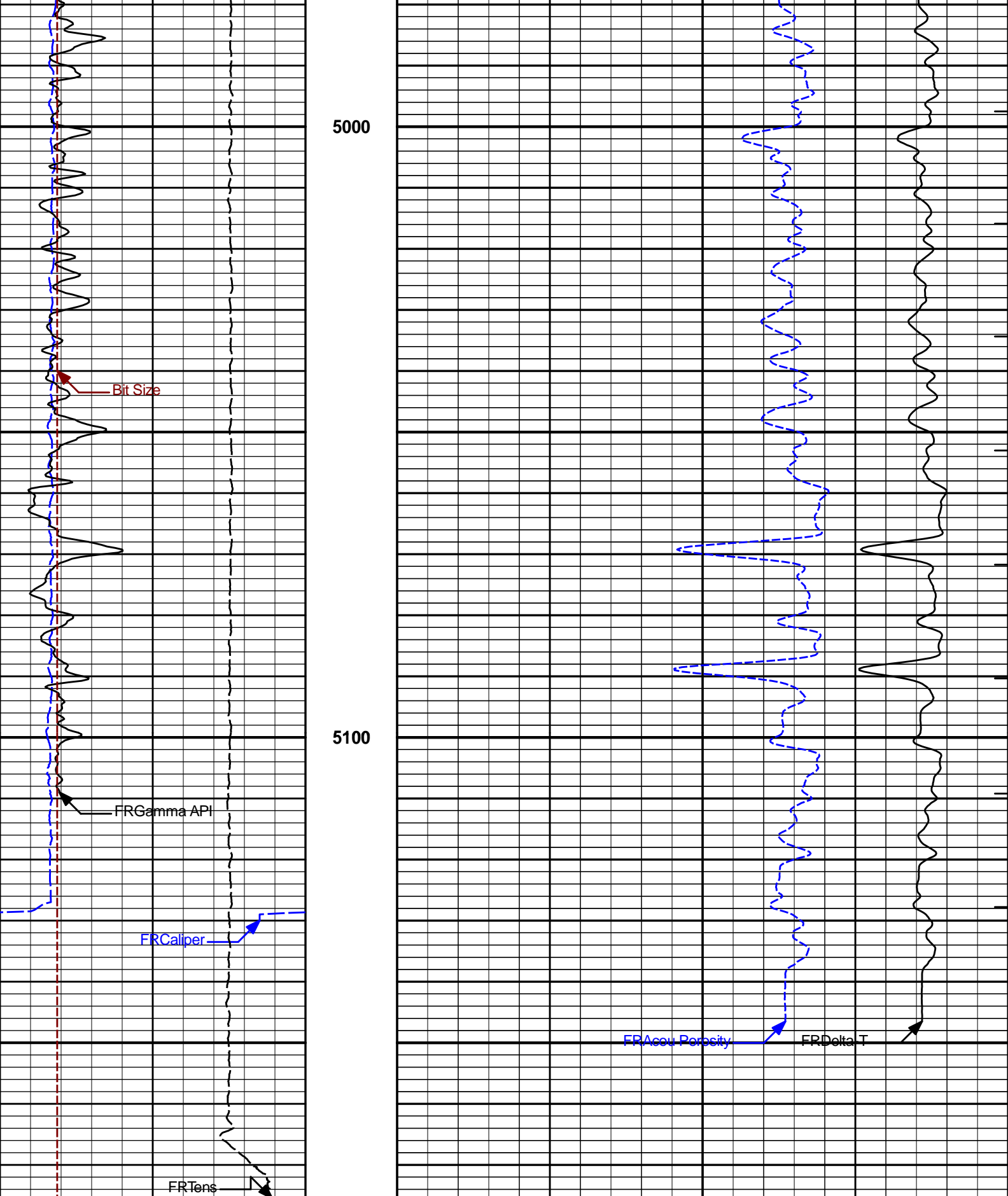
ITTT



4800

4900





6	Bit Size	16	1 : 240 ft	ITTT
	inches			
6	CALI	16	140	Delta-T microsec per ft
	inches			
15K	Tens	0	20	Acou Porosity
				40

15k	pounds	0
0	Gamma API	150
	api	

50	percent	-10
----	---------	-----

HALLIBURTON

Plot Time: 26-Sep-22 22:04:29
 Plot Range: 4798 ft to 5175.5 ft
 Data: 09_26_MERIT\Well Based\DAQ-0001-003\
 Plot File: \\SONIC\BSAT_5inch RPT

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11405267	Reference Calibration Date: 05-Aug-21 10:53:16
Engineer: MOHAMED ABUELGASIM	Calibration Date: 17-Jun-22 16:53:35
Software Version: WL INSITE R6.4.5 (Build 6)	Calibration Version: 1

Calibrator Source S/N: TB-768
 Calibrator API Reference:203.00 api
 Equivalent Calibrator API Reference:206.6 api

Measurement	Measured	Calibrated	Units
Background	19.1	17.9	api
Background + Calibrator	238.9	224.5	api
Calibrator	219.9	206.6	api

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11019641	Reference Calibration Date: 19-Aug-22 17:45:26
Engineer: J. Cabanzo	Calibration Date: 19-Aug-22 18:08:05
Software Version: WL INSITE R6.6.7 (Build 8)	Calibration Version: 1

Logging Source S/N: 96395B
 Tank Serial Number: 10585331
 Reference value assigned to Tank: 54.090
 Snow Block S/N: 2
 Calibration Tank Water Temperature: 86 degF
 Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.95915	0.96288	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change

Porosity (decp):	0.2233	0.2244	0.0012	+/- 0.0020
Calibrated Ratio:	10.1421	10.1815	0.039	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0589	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name: DSNT - 11019641	Reference Calibration Date: 19-Aug-22 18:08:05
Engineer: J. Cabanzo	Calibration Date: 19-Aug-22 18:09:36
Software Version: WL INSITE R6.6.7 (Build 8)	Calibration Version: 1

Logging Source S/N: 96395B
Snow Block S/N: 2

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0589	0.0712	0.0122	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10695352	Reference Calibration Date: 19-Aug-22 15:31:53
Engineer: J. Cabanzo	Calibration Date: 19-Aug-22 15:37:09
Software Version: WL INSITE R6.6.7 (Build 8)	Calibration Version: 1
Host Tool Name: DSNT - 11019641	

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2934.34	-3021.58	-7000.00 - -1000.00
Pad Gain	0.0003900	0.0003927	0.0002000 - 0.0006000
Arm Offset	-3023.74	-2984.46	-5000.00 - 3000.00
Arm Gain	0.0005200	0.0005114	0.000300 - 0.000700
Arm Power	-0.000005411	-0.000004687	-0.000010000 - 0.000010000

The ring diameter is computed from: $DIAMETER = PAD\ EXTENSION + ARM\ EXTENSION + TOOL\ DIAMETER$

Tool Diameter: 4.50 in

CALIBRATION RINGS					
Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value	
PAD EXTENSION:					
Small Ring (in)	2.02	2.00	-0.02	+/- 0.20	
Medium Ring (in)	3.76	3.75	-0.01	+/- 0.20	
RING DIAMETER:					
Small Ring (in)	6.54	6.50	-0.04	+/- 0.20	
Medium Ring (in)	8.30	8.25	-0.05	+/- 0.20	

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed
 Ring-Measurement Check: Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed

SDLT CALIPER FIELD CALIBRATION

Tool Name: **SDLT - 10695352**

Reference Calibration Date: **19-Aug-22 15:37:09**

Engineer: **J. Cabanzo**

Calibration Date: **19-Aug-22 15:38:25**

Software Version: **WL INSITE R6.6.7 (Build 8)**

Calibration Version: **1**

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.76	0.01	+/- 0.10
Ring Diameter	8.25	8.24	-0.01	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed

Diameter Check: Passed

MICRO LOG SHOP CALIBRATION

Tool Name: **Microlog Pad - 10695352**

Reference Calibration Date: **19-Aug-22 15:26:27**

Engineer: **M. GALLION**

Calibration Date: **18-Sep-22 11:56:50**

Software Version: **WL INSITE R6.6.5 (Build 5)**

Calibration Version: **1**

Host Tool Name: **DSNT - 11019641**

CALIBRATION COEFFICIENT SUMMARY

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.07	-0.05	-0.01	0.01	ohmm
Calibration Point #1	0.00	0.02	-0.00	0.02	ohmm
Calibration Point #2	20.00	20.00	20.00	20.00	ohmm
Internal Reference	19.93	19.93	19.99	20.00	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-0.11	0.29	V
Calibration Point #1	18.75	2.31	V
Calibration Point #2	5342.97	6961.14	V
Internal Reference	5325.50	6960.16	V

MICRO LOG FIELD CHECK

Tool Name: **Microlog Pad - 10695352**

Reference Calibration Date: **18-Sep-22 11:56:50**

Engineer: **M. GALLION**

Calibration Date: **18-Sep-22 11:57:39**

Software Version: **WL INSITE R6.6.5 (Build 5)**

Calibration Version: **1**

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.05	-0.05	0.01	0.01	ohmm
Internal Reference	19.93	19.94	20.00	20.00	ohmm

Summary

Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.93	19.94	-0.01	+/- 0.80
Microlog Lateral	20.00	20.00	0.00	+/- 0.80

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 10865883	Reference Calibration Date: 18-Aug-22 15:18:35
Engineer: J. Cabanzo	Calibration Date: 18-Aug-22 15:40:41
Software Version: WL INSITE R6.6.7 (Build 8)	Calibration Version: 1

Logging Source S/N: 5406GW		
Aluminum Block S/N: 10585329	Density: 2.595g/cc	Pe: 3.270
Magnesium Block S/N: 10585330	Density: 1.679g/cc	Pe: 2.580

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0268	1.0413	0.90 - 1.10
Near Dens Gain	1.0028	1.0178	0.90 - 1.10
Near Peak Gain	1.0111	1.0223	0.90 - 1.10
Near Lith Gain	0.9937	1.0032	0.90 - 1.10
Far Bar Gain	1.0130	1.0125	0.90 - 1.10
Far Dens Gain	1.0018	1.0019	0.90 - 1.10
Far Peak Gain	0.9966	0.9966	0.90 - 1.10
Far Lith Gain	0.9721	0.9764	0.90 - 1.10
Near Bar Offset	0.0440	-0.0871	NONE
Near Dens Offset	0.2346	0.1031	NONE
Near Peak Offset	0.1484	0.0544	NONE
Near Lith Offset	0.2572	0.1772	NONE
Far Bar Offset	0.0901	0.0959	NONE
Far Dens Offset	0.1963	0.1949	NONE
Far Peak Offset	0.2260	0.2243	NONE
Far Lith Offset	0.3754	0.3427	NONE
Near Bar Background	926.68	925.11	700 - 1450
Near Dens Background	305.57	305.68	230 - 480
Near Peak Background	132.20	132.48	100 - 210
Near Lith Background	164.41	164.83	125 - 260
Far Bar Background	582.80	586.26	450 - 900
Far Dens Background	228.90	229.53	175 - 345
Far Peak Background	90.63	91.49	70 - 140
Far Lith Background	94.02	94.43	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.678	1.678	0.000	+/- 0.015
Pe	2.546	2.552	0.006	+/- 0.150
ALUMINUM				
Density (g/cc)	2.596	2.595	-0.001	+/- 0.01500
Pe	3.221	3.228	0.007	+/- 0.150

TOOL SUMMARY		
Measurement	Near Detector	Far Detector

	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0014	+/- 0.0110	0.0003	+/- 0.0140
Magnesium Block	-0.0006	+/- 0.0110	-0.0014	+/- 0.0140
Aluminum Block	-0.0004	+/- 0.0110	-0.0004	+/- 0.0140
Resolution	8.83	6.00 - 11.50	8.98	6.00 - 11.50
Internal Verifier(B+D+P+L)	1528	1200 - 2700	1002	800 - 1700

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK

Tool Name: SDLT Pad - 10865883	Reference Calibration Date: 18-Aug-22 15:40:41
Engineer: M. GALLION	Calibration Date: 17-Sep-22 19:26:40
Software Version: WL INSITE R6.6.5 (Build 5)	Calibration Version: 1

Pad Temperature: 96.0 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1528.096	1528.486	0.390	15.742
Far (B+D+P+L) cps	1001.708	996.589	-5.119	16.936
Near Resolution	8.83	8.77	-0.060	0.50
Far Resolution	8.98	8.90	-0.080	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRt Sonde - 10933411	Reference Calibration Date: 10-Mar-22 11:52:39
Engineer: MOHAMED ABUELGASIM	Calibration Date: 17-Jun-22 12:35:28
Software Version: WL INSITE R6.6.7 (Build 8)	Calibration Version: 1
Host Tool Name: ACRt Instrument - 10967817	

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0093	1.05	0.95	1.0097	1.05	0.95	1.0029	1.05
A2 (50")	0.95	1.0129	1.05	0.95	1.0137	1.05	0.95	1.0066	1.05
A3 (29")	0.95	1.0093	1.05	0.95	1.0074	1.05	0.95	1.0011	1.05
A4 (17")	0.95	1.0092	1.05	0.95	1.0064	1.05	0.95	1.0040	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9991	1.05	0.95	0.9969	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9833	1.05	0.95	0.9814	1.05

SONDE OFFSET

SONDE OFFSET

Subarray	R12KHz	R36KHz	R72KHz
	(mmho/m)	(mmho/m)	(mmho/m)
A1 (80")	-0.514	-4.153	-5.096
A2 (50")	-1.142	-3.528	-4.869
A3 (29")	-10.576	-3.717	-3.307
A4 (17")	-100.911	-32.858	-26.318
A5 (10")	N/A	-93.684	-45.343
A6 (6")	N/A	345.620	160.599

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.94	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.85	2.0				
72K	1.0	1.18	2.0				

PASS/FAIL SUMMARY	
GAIN RANGE CHK	PASS
SONDE OFFSET CHK	PASS

TOOL OK TO LOG

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11405267						
Gamma Ray Calibrator	206.6	-----	-----	0.0	+/- 9.00	api
DSNT-11019641						
Snow-Block Porosity	0.0589	0.0712	-----	-0.0123	+/- 0.0150	decp
SDLT-10695352						
Pad Extension	3.75	3.76	-----	-0.01	+/-0.10	in
Ring Diameter	8.25	8.24	-----	0.01	+/-0.15	in
Microlog Pad-10695352						
MicroLog Normal	19.93	19.94	-----	-0.01	+/-0.80	ohmm
MicroLog Lateral	20.00	20.00	-----	0.00	+/-0.80	ohmm
SDLT Pad-10865883						
Near(B+D+P+L)	1528.096	1528.486	-----	-0.390	+/-15.742	cps
Far(B+D+P+L)	1001.708	996.589	-----	5.119	+/-16.936	cps
ACRt Sonde-10933411						
Mud Cell	1.00	-----	-----	0	-----	ohm-m

Data: 09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRTIDLE Date: 26-Sep-22 20:48:03

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Reservoir Fluid Weight	0.200	ppg

SHARED	MDWI	Borehole Fluid Weight	9.200	ppg
SHARED	WAGT	Weighting Agent	Barite	
SHARED	BSAL	Borehole salinity	0.00	ppm
SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
SHARED	RMUD	Mud Resistivity	1.000	ohmm
SHARED	TRM	Temperature of Mud	75.0	degF
SHARED	CSD	Logging Interval is Cased?	No	
SHARED	ICOD	AHV Casing OD	5.500	in
SHARED	CSTR	Compressive Strength	1000.00	psia
SHARED	ST	Surface Temperature	75.0	degF
SHARED	TD	Total Well Depth	5173.00	ft
SHARED	BHT	Bottom Hole Temperature	200.0	degF
SHARED	SVTM	Navigation and Survey Master Tool	NONE	
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	CBM Temperature Master Tool	GTET	
SHARED	MSAL	Water-base mud filtrate salinity	0.00	ppm
Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
GTET	ACOK	Do ACCZ Calculations?	Yes	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	SDLT	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTT	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
DSNT	UCLA	Classic Neutron Parameter utilized?	No	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc

SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Pore Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	Limestone 47.6	
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Centered	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMAX	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	

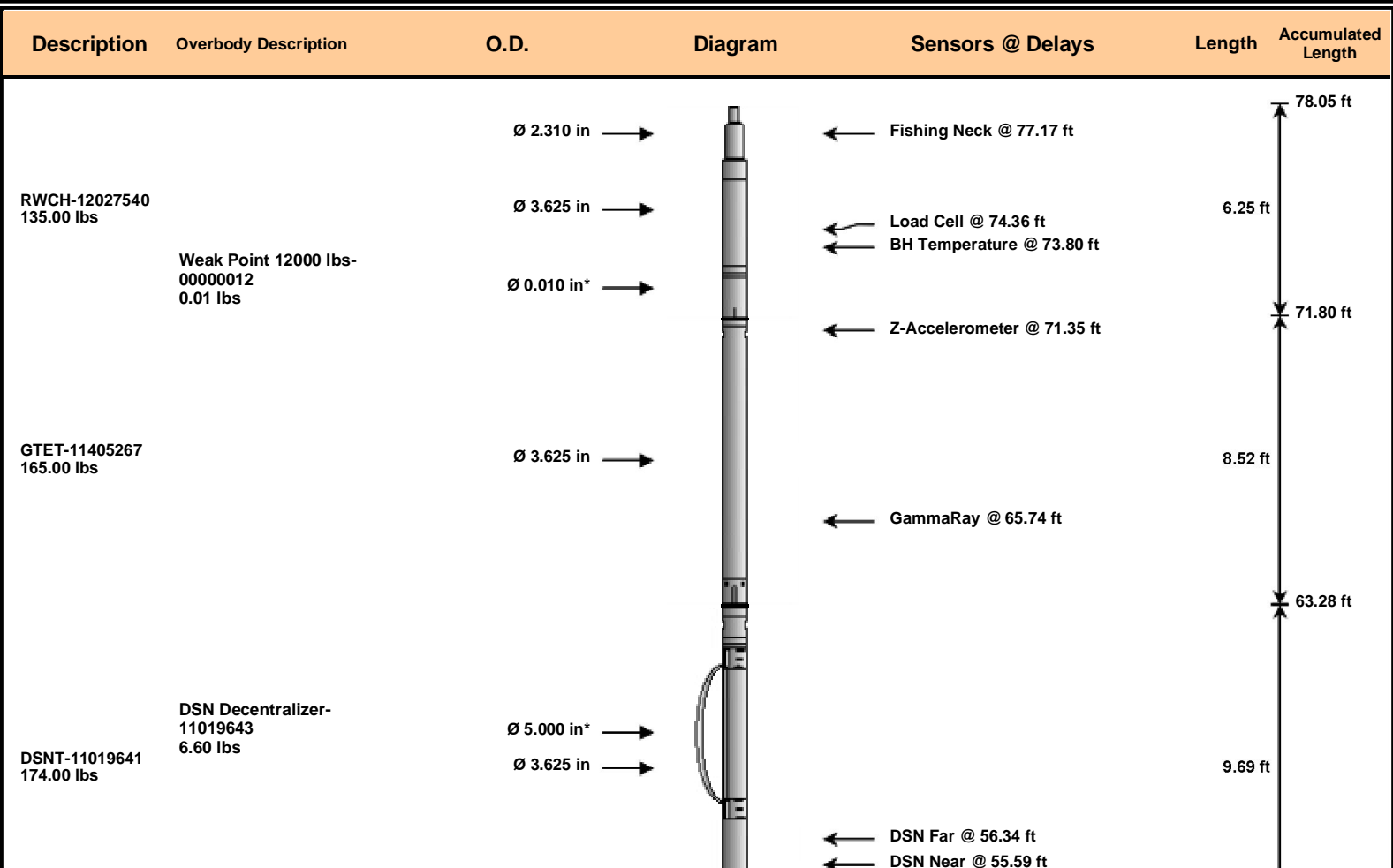
BOTTOM

Data: 09_26_MERIT0001 GTET-DSNT-SDLT-BSAT-ACRTIDLE

Date: 26-Sep-22 19:47:41



TOOL STRING DIAGRAM REPORT



SDLT-10695352
360.00 lbs

SDLT Pad-10865883
65.00 lbs

Microlog Pad-10695352
8.00 lbs

RAM-Cs137-10020004
1.00 lbs

Ø 4.500 in →

Ø 4.500 in* →

Ø 4.750 in* →

Ø 0.800 in* →

Microlog @ 45.78 ft

SDL Caliper @ 45.59 ft

SDL @ 45.58 ft

53.59 ft

10.81 ft

Flex Joint-10883966
140.00 lbs

Ø 3.625 in →

42.78 ft

5.67 ft

Centralizer 25-00000001
8.00 lbs

Ø 4.000 in* →

37.11 ft

BSAT-10747681
300.00 lbs

Ø 3.625 in →

Receiver Array @ 28.59 ft

Sonic Receivers @ 28.59 ft

15.77 ft

ACRt Instrument-10967817
50.00 lbs

Centralizer 25-00000002
8.00 lbs

Ø 3.625 in →

Ø 4.000 in* →

21.33 ft

5.03 ft

Mud Resistivity @ 14.94 ft

ACRt @ 10.96 ft

16.30 ft

ACRt Sonde-10933411
200.00 lbs

Ø 3.625 in →

14.22 ft

SP Ring-10933411
0.00 lbs

Ø 3.625 in* →

SP @ 3.36 ft

2.08 ft

2.08 ft

Hole Finder-11111111
50.00 lbs

Ø 2.800 in →

Ø 3.625 in →



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max. Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	12027540	135.00	6.25	71.80	300.00
WP12K	Weak Point 12000 lbs	00000012	0.01	0.01	*	72.60
GTET	Gamma Telemetry Tool	11405267	165.00	8.52	63.28	60.00
DSNT	Dual Spaced Neutron	11019641	174.00	9.69	53.59	60.00
DCNT	DSN Decentralizer	11019643	6.60	5.13	*	56.92
SDLT	Spectral Density Tool	10695352	360.00	10.81	42.78	60.00
SDLP	Density Insite Pad	10865883	65.00	2.55	*	44.99
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	10020004	1.00	0.80	*	45.22
MICP	Microlog Pad	10695352	8.00	1.00	*	45.28
FLEX	Flex Joint	10883966	140.00	5.67	37.11	300.00
BSAT	Borehole Sonic Array Tool	10747681	300.00	15.77	21.33	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	*	33.99
ACRt	Array Compensated True Resistivity Instrument Section	10967817	50.00	5.03	16.30	120.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	*	17.29
ACRt	Array Compensated True Resistivity Sonde Section	10933411	200.00	14.22	2.08	120.00
SP	SP Ring	10933411	0.00	0.25	*	3.36
HFND	Hole Finder	11111111	50.00	2.08	0.00	300.00

Total **1,670.61** **78.05**

* Not included in Total Length and Length Accumulation.

Data: 09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE

Date: 26-Sep-22 18:49:20

COMPANY	MERIT ENERGY COMPANY, LLC		
WELL	CELONA No. 1-12		
FIELD	ST LOUIS		
COUNTY	FINNEY	STATE	KS
HALLIBURTON		BOREHOLE COMPENSATED SONIC ARRAY	