

**BOREHOLE
SONIC ARRAY
LOG**

Fold here

LOGGING DATA

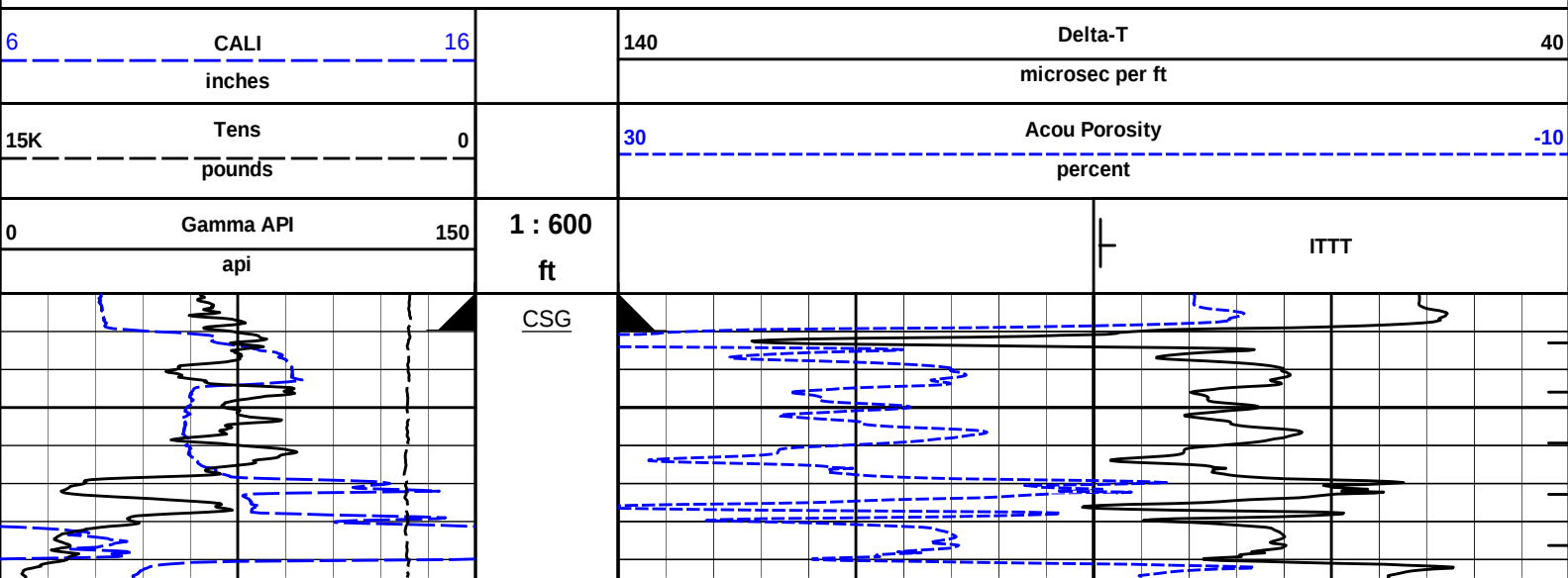
GENERAL				GAMMA		ACOUSTIC		DENSITY			NEUTRON			
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	5103 ft	1830 ft	REC	0 gapi	150 gapi	30%	-10%	47.6 uSec/ft						
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: FIRST LOG ON WELL, POSITIVE DEPTH CONTROL APPLIED														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
LOGGING INTERVALS AND SERVICES ARE AS PER CUSTOMER REQUEST														
TOOLS RAN IN COMBINATION AS PER TOOLSTRING DIAGRAM														
CHLORIDES REPORTED AT 2,500														
CREW: C. HERRERA, B. EZEKWU														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES														

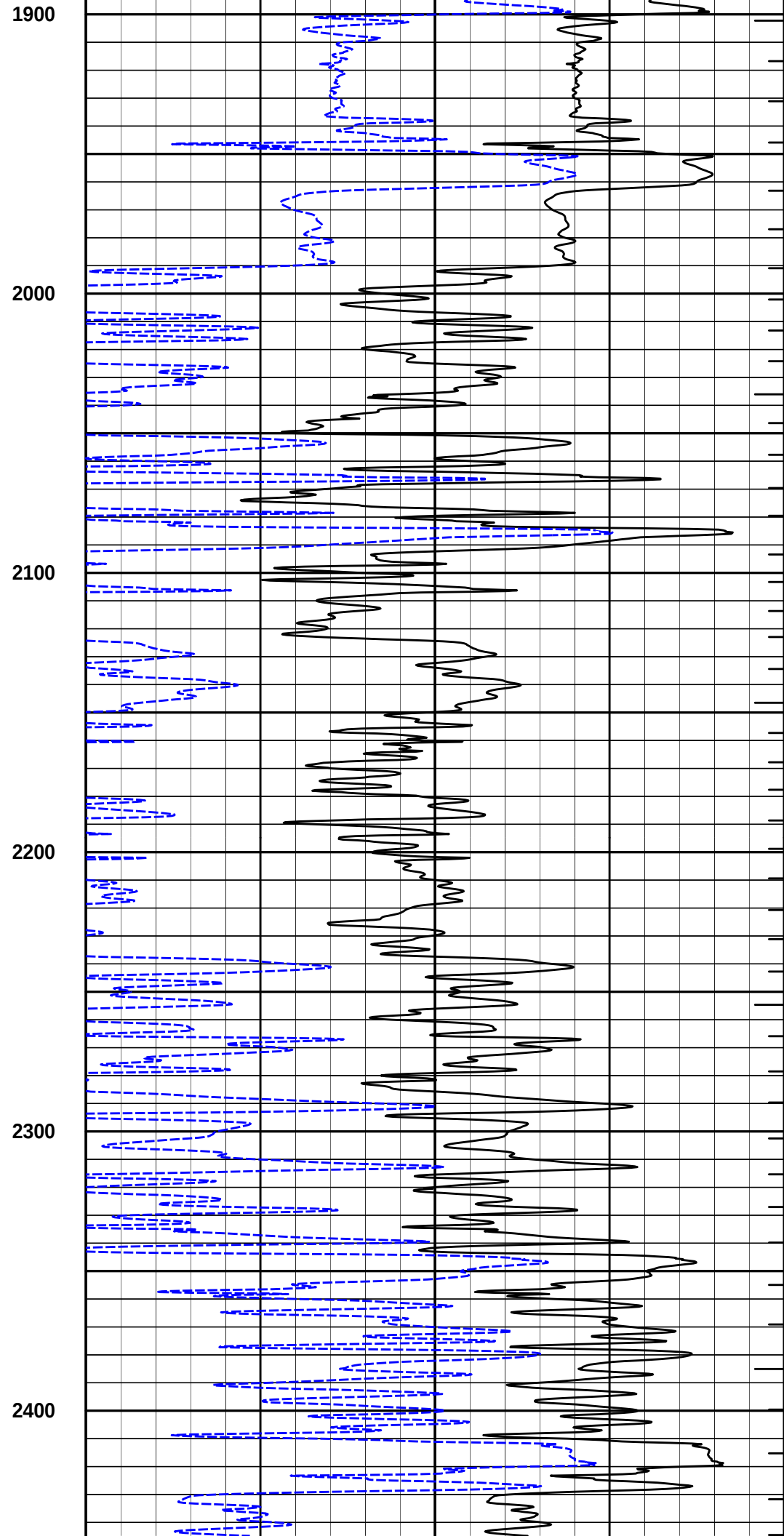
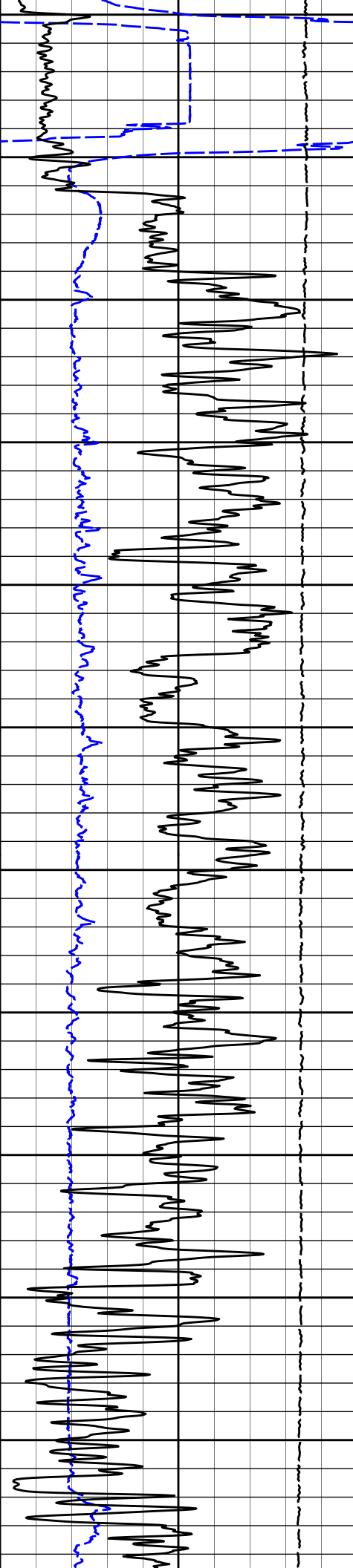


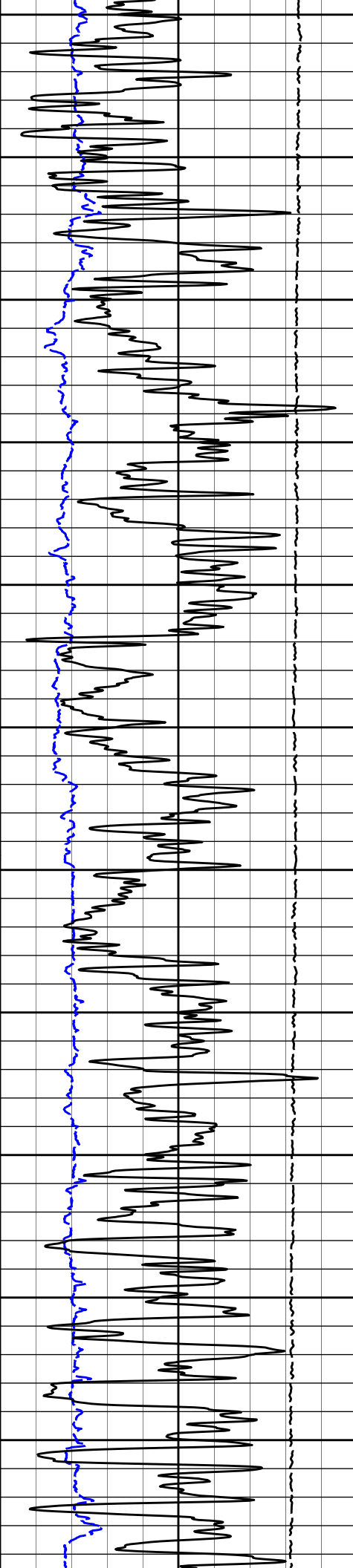
Plot Time: 08-Mar-22 22:14:14
Plot Range: 1820 ft to 5112.92 ft
Data: 03_08_MERIT\Well Based\DAQ-0001-0041
Plot File: \\SONIC\BSAT 2inch

2 INCH MAIN LOG

2" MAIN LOG SECTION







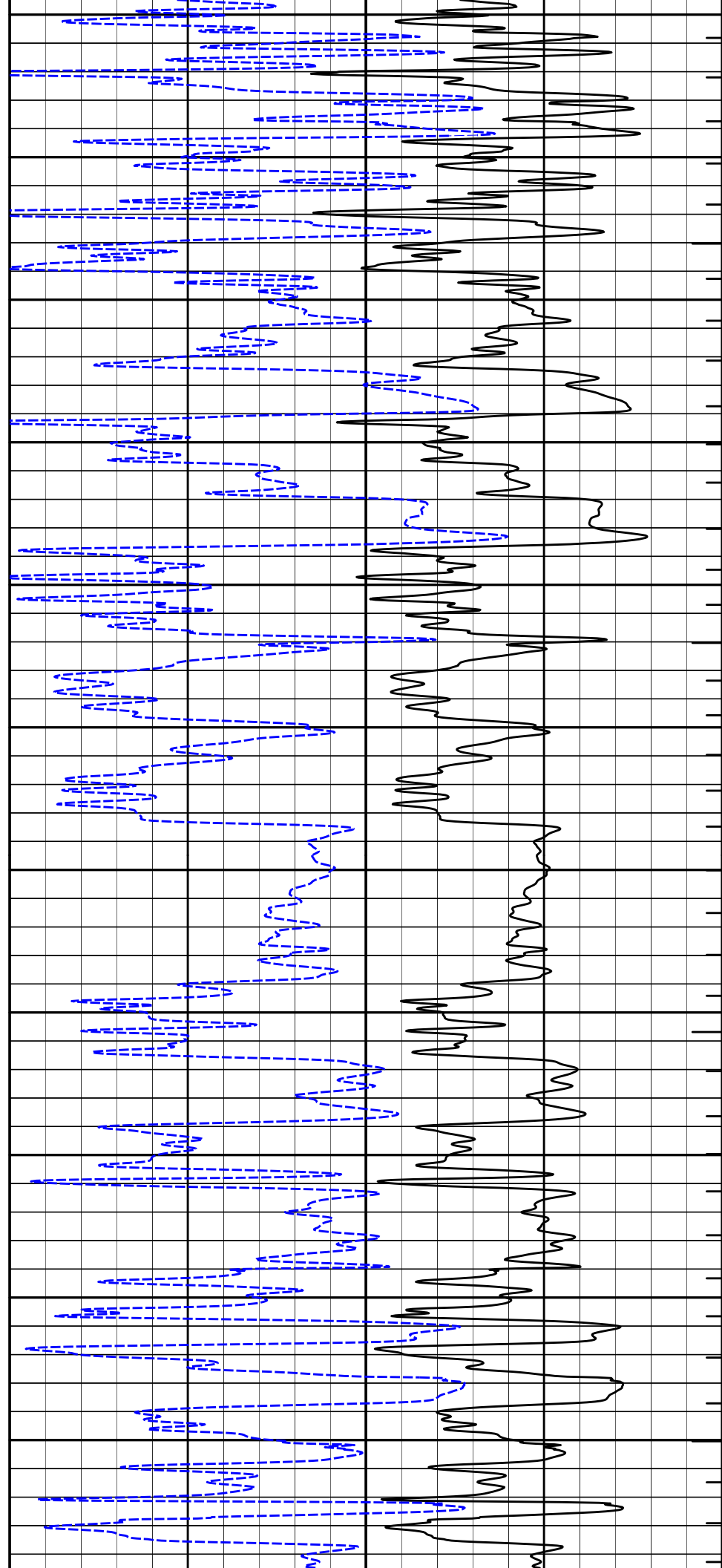
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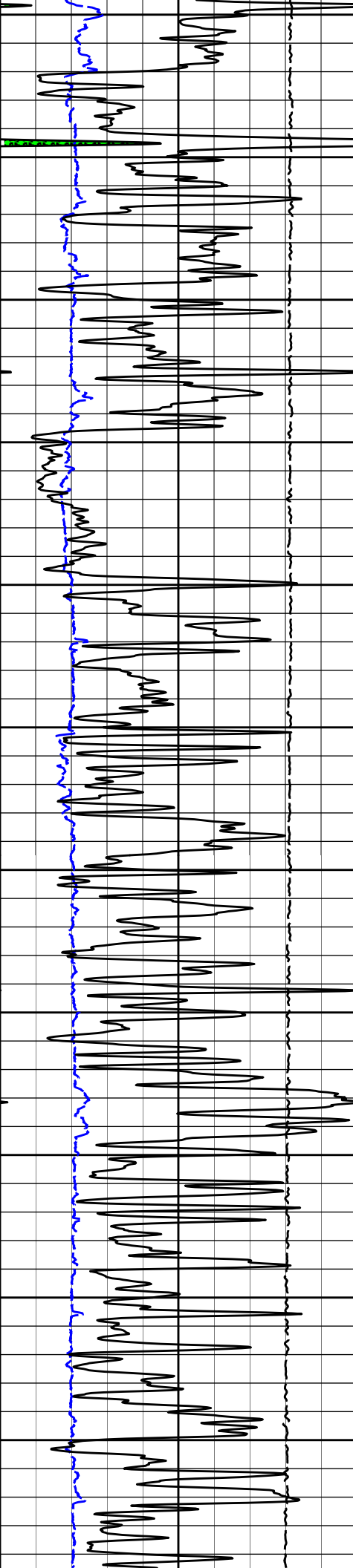
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2700

2800

2900





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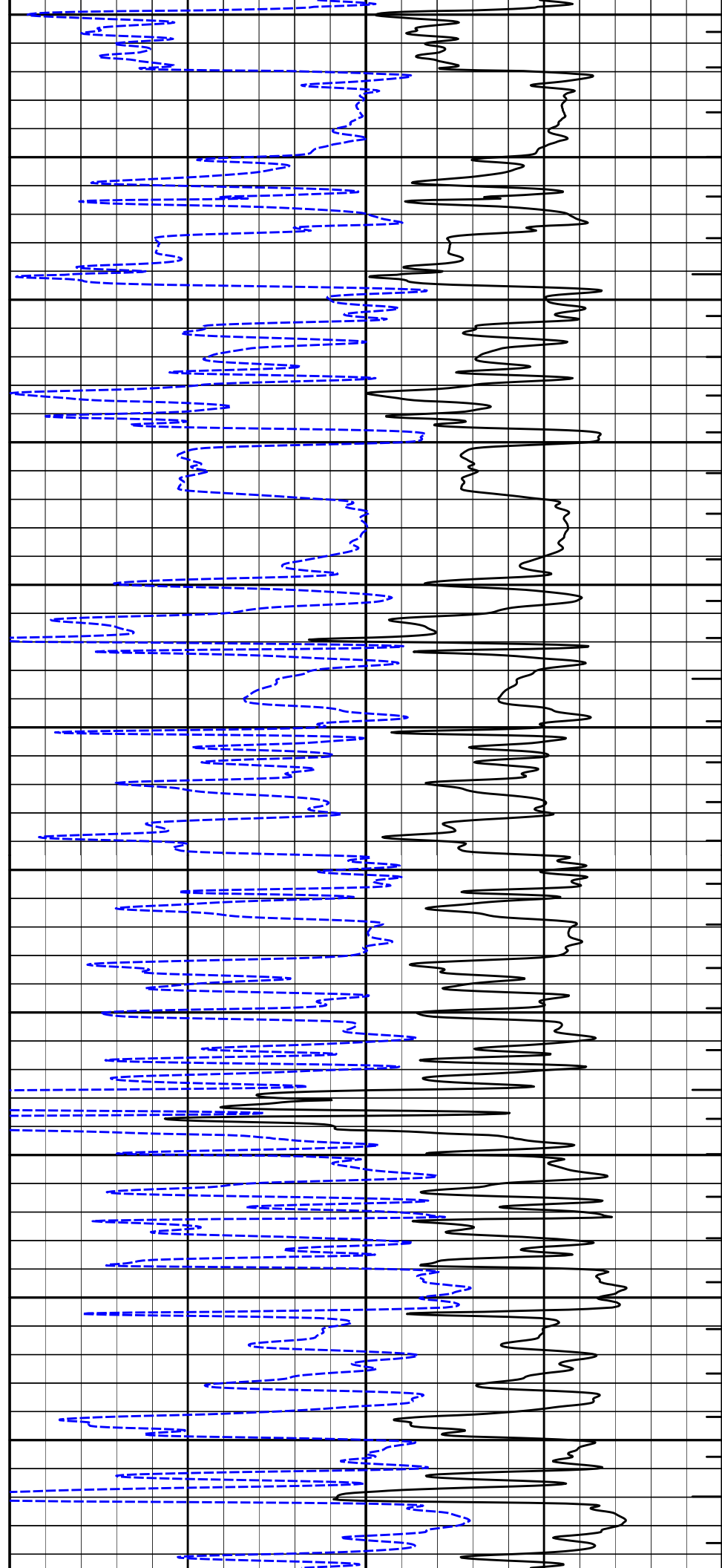
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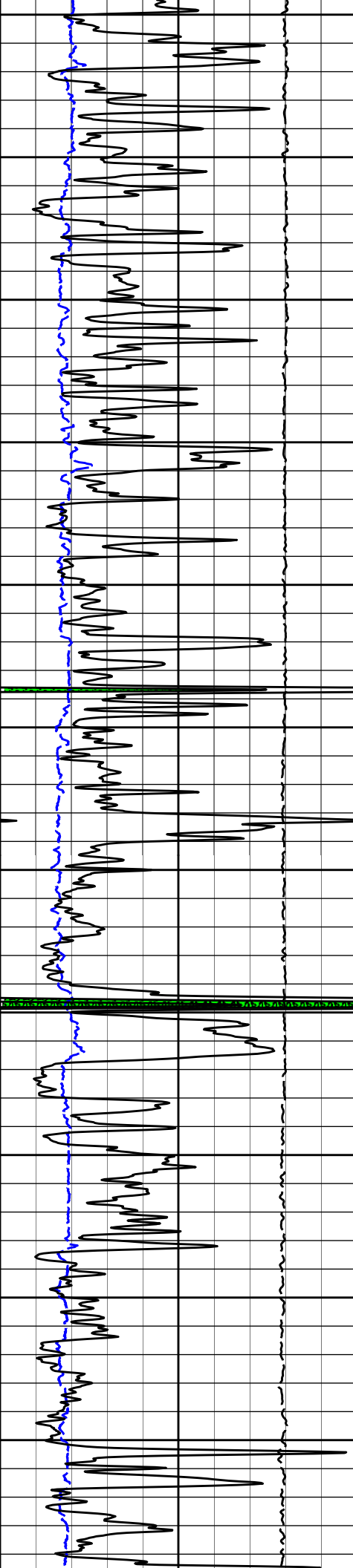
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3500





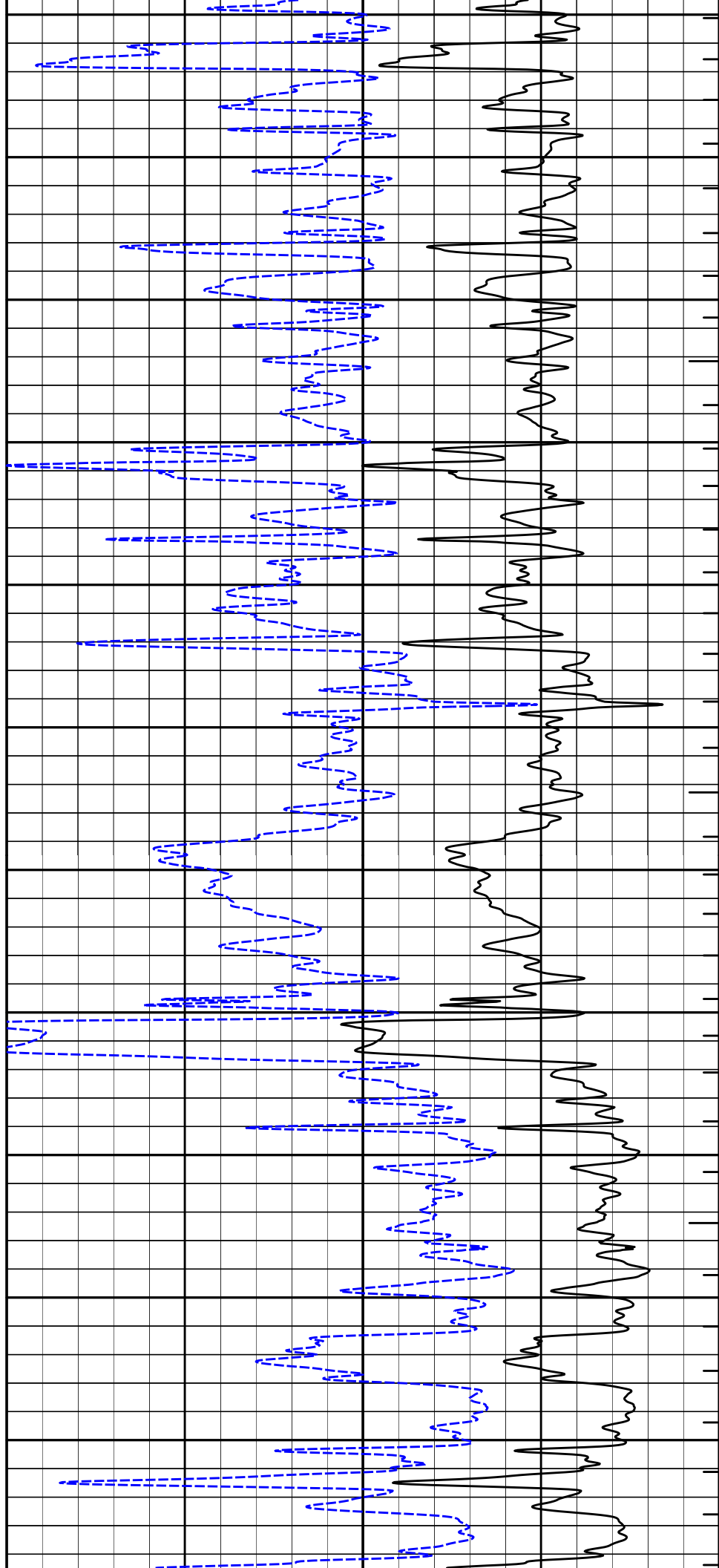
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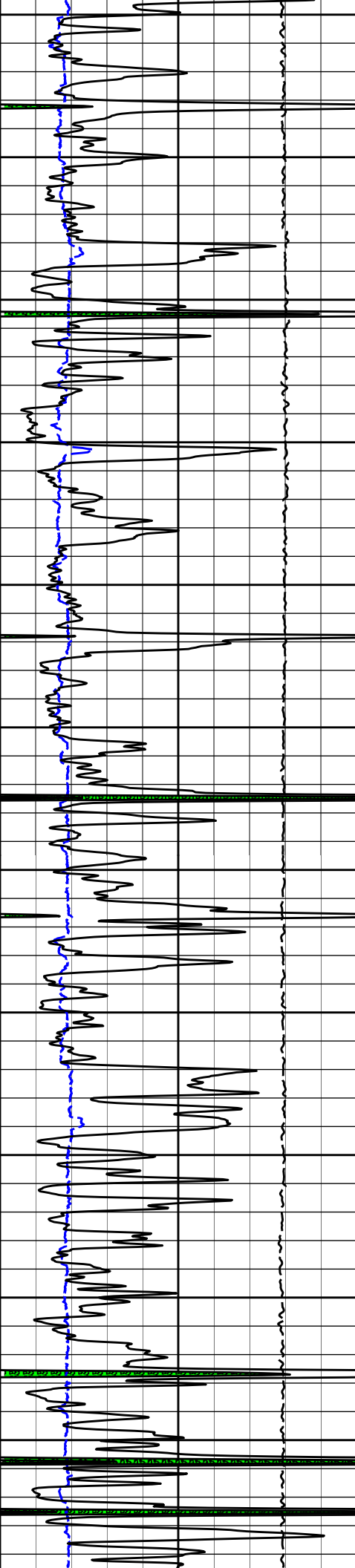
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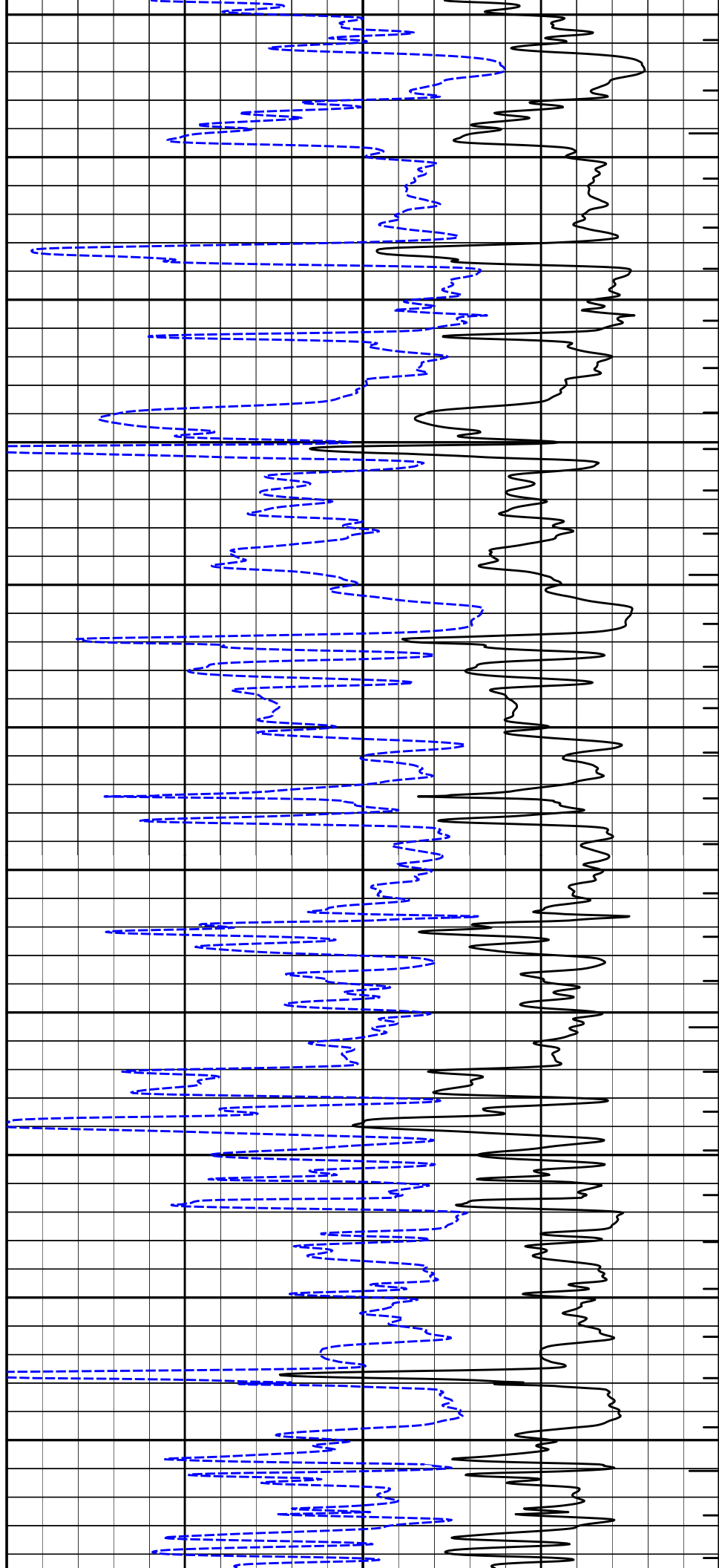
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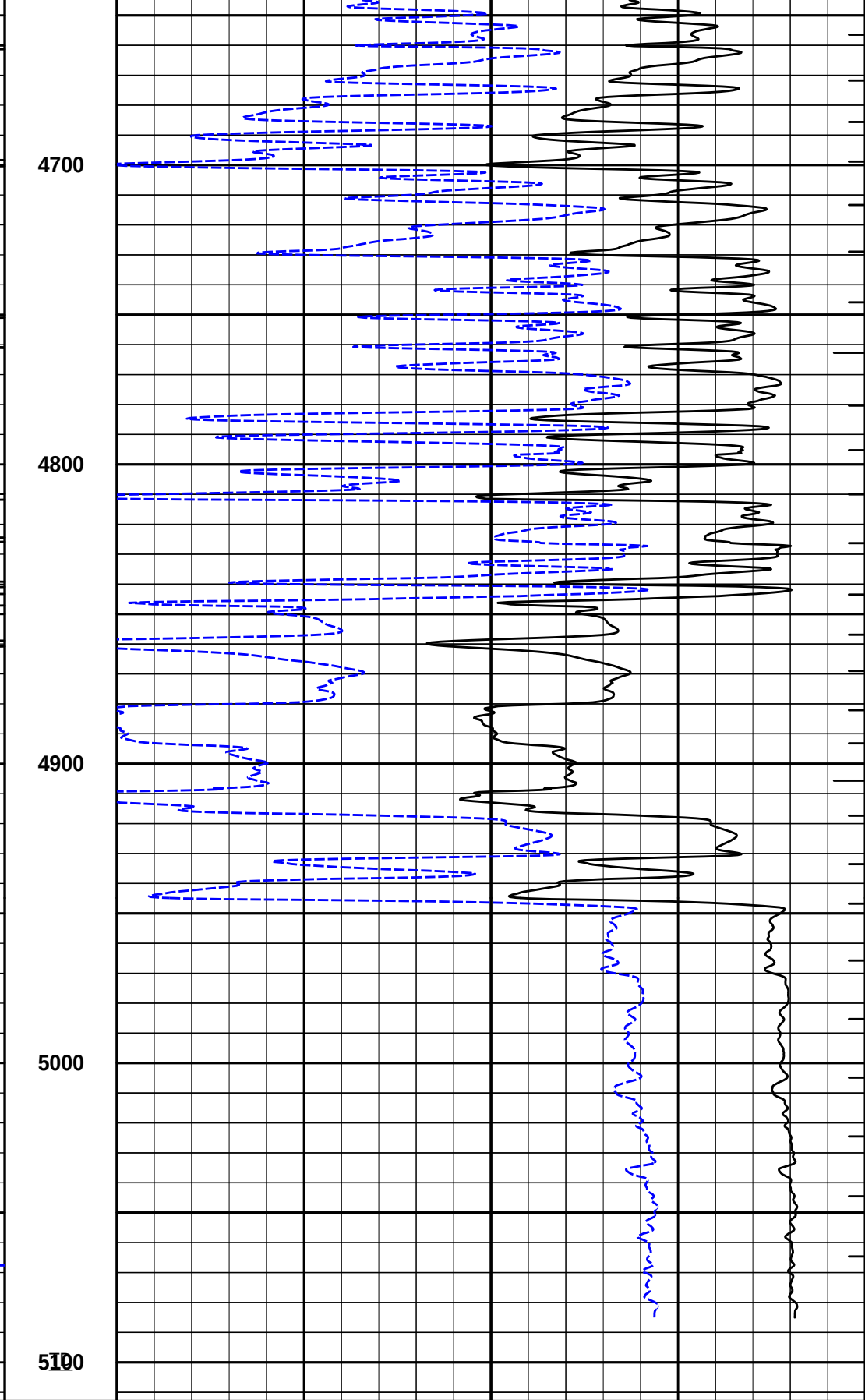
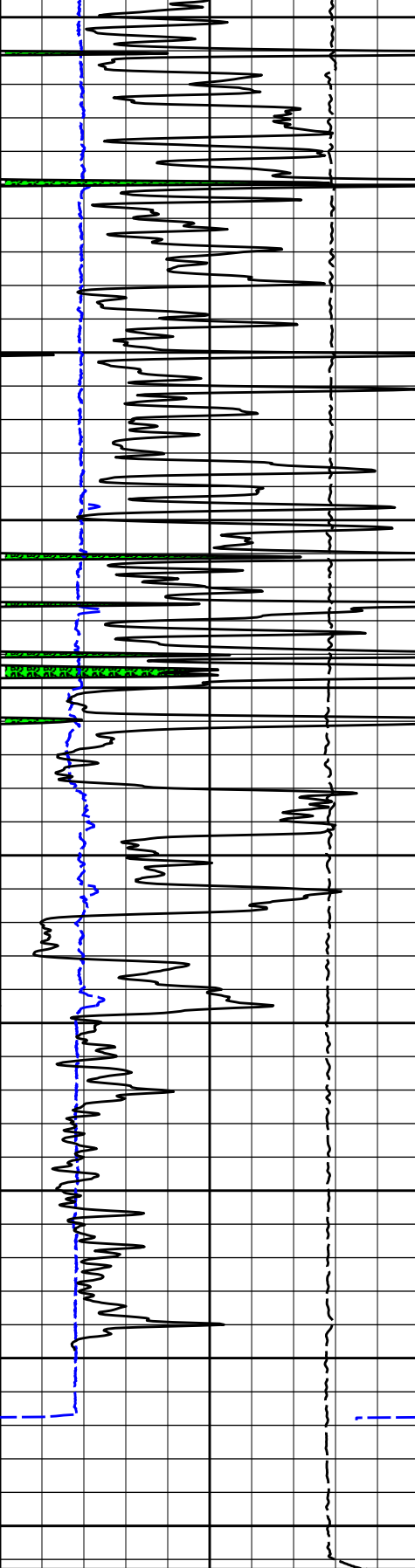
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4400

4500

4600



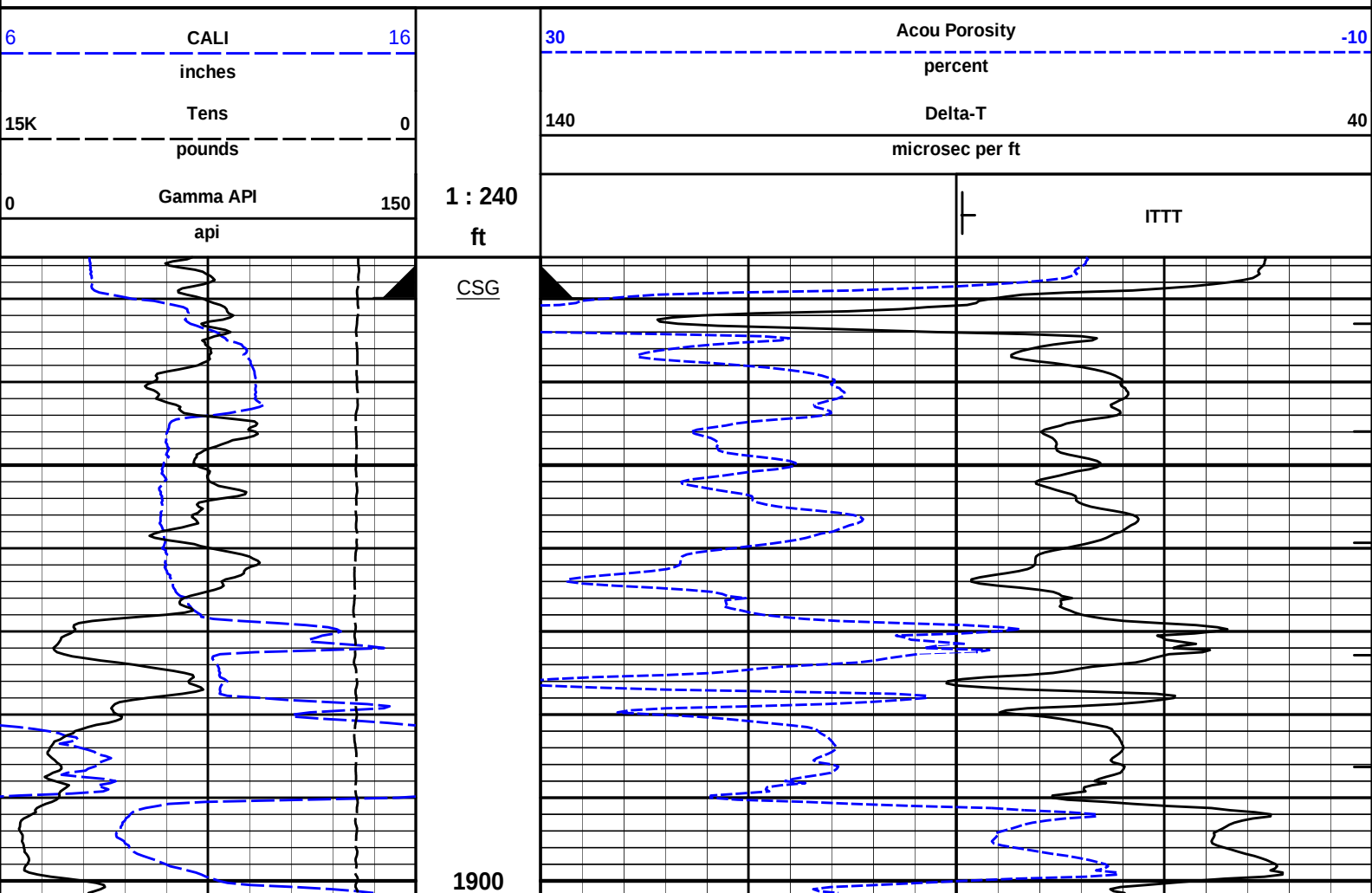


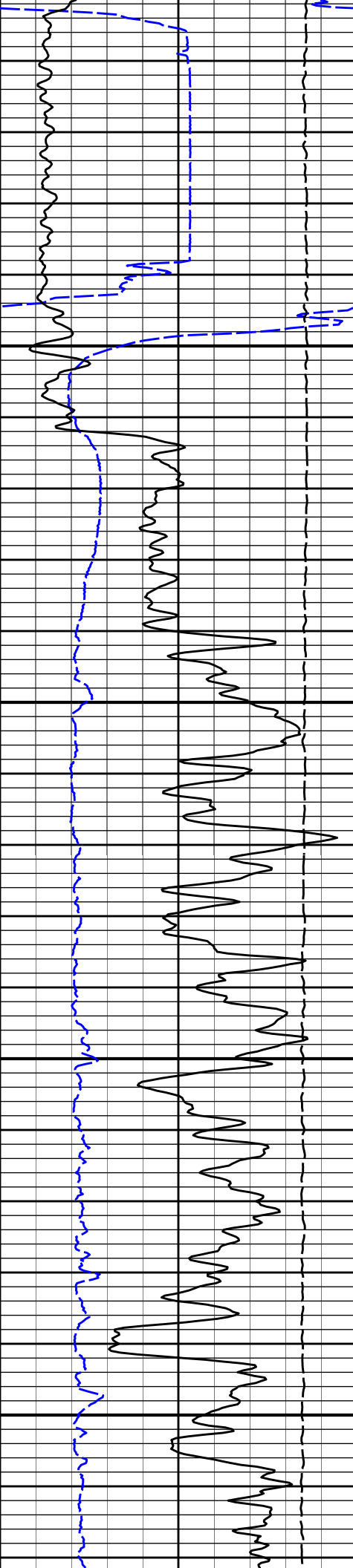
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	api		ft		
15K	Tens	0		30	Acou Porosity
	pounds				percent
6	CALI	16		140	Delta-T
	inches				microsec per ft

2" MAIN LOG SECTION

5 INCH MAIN LOG

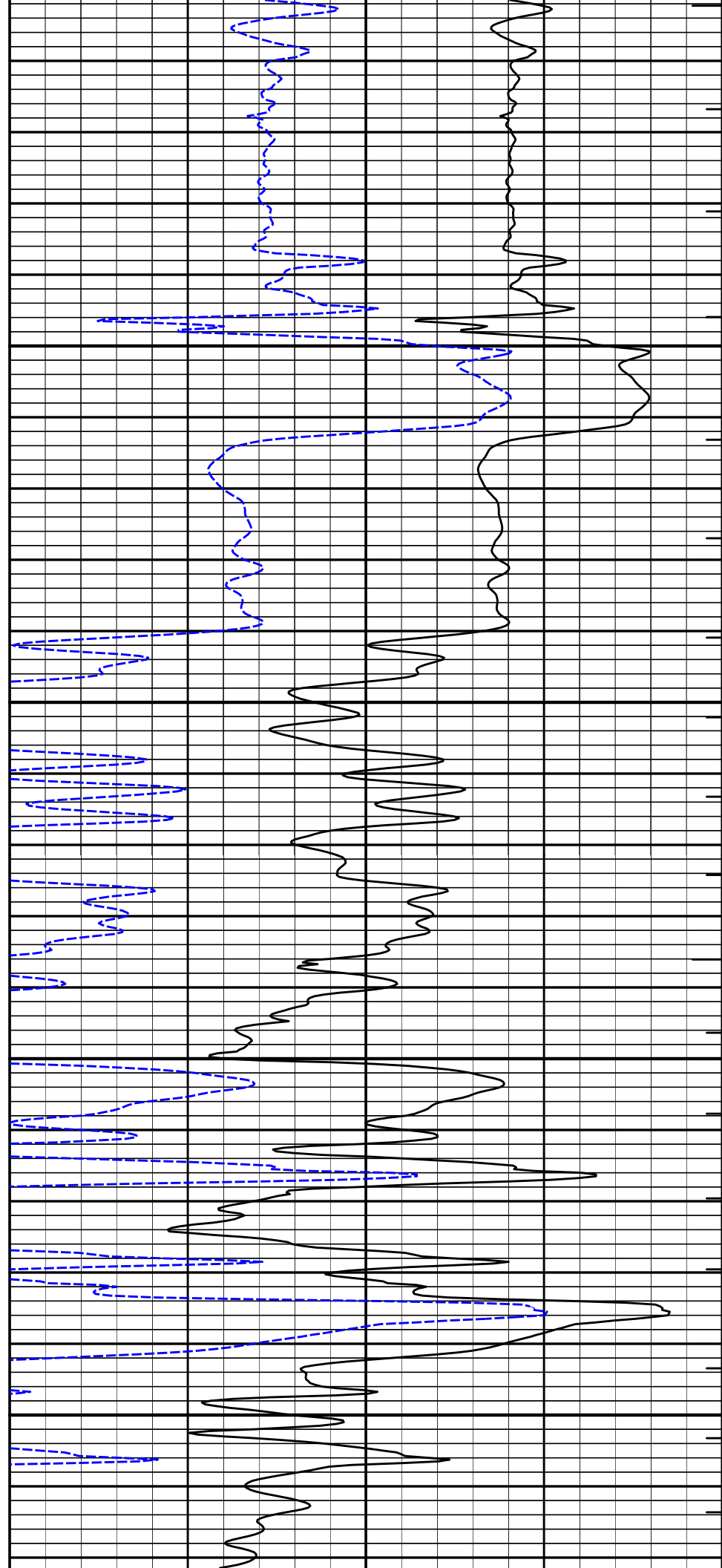
MAIN LOG SECTION

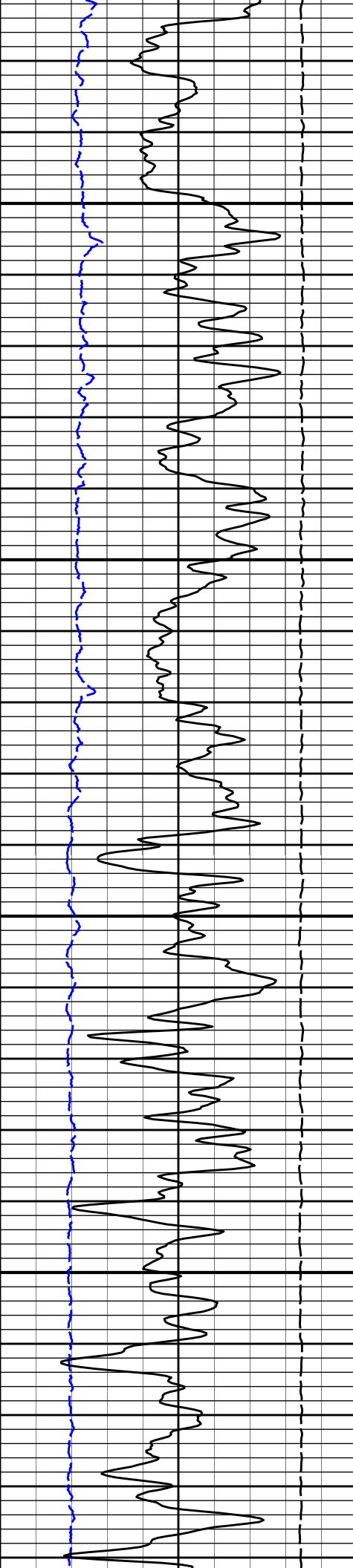




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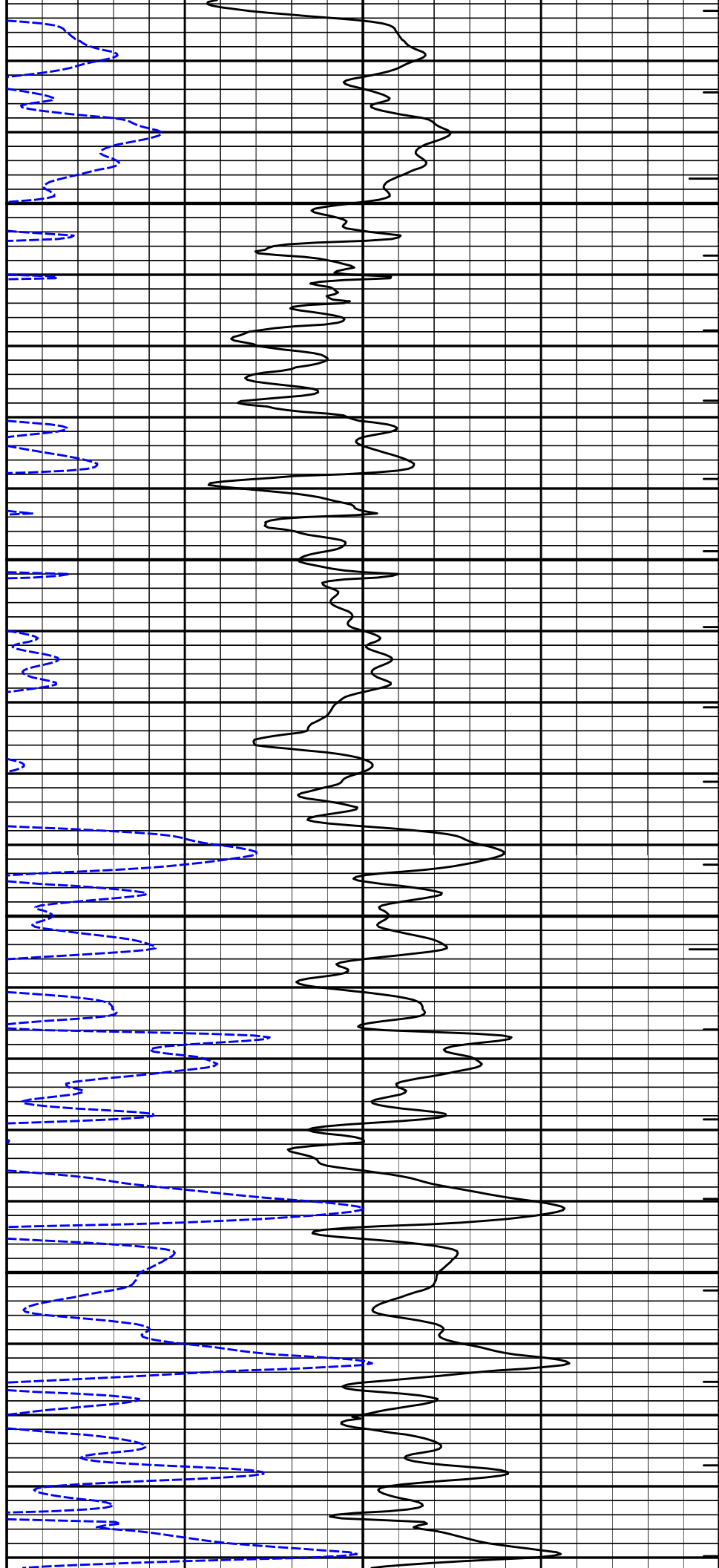
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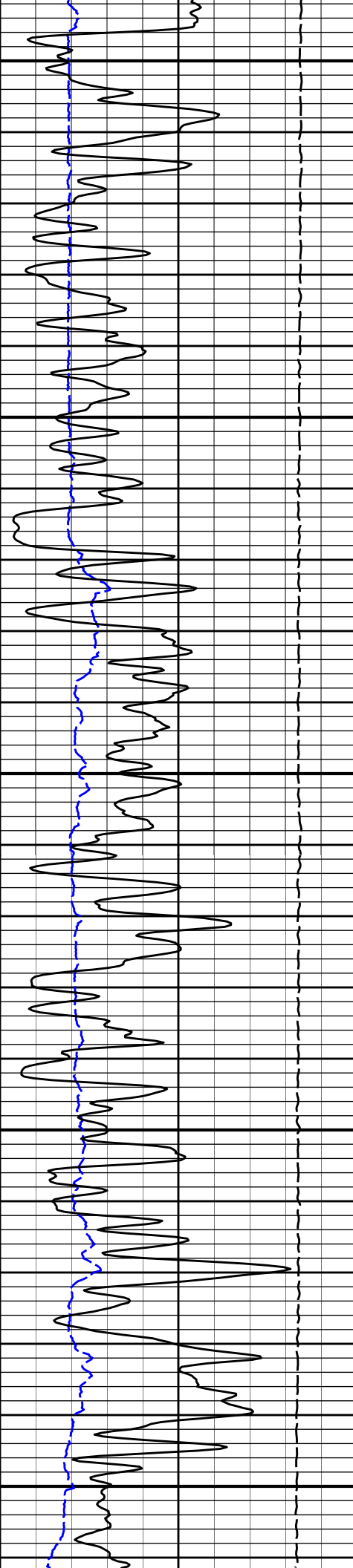




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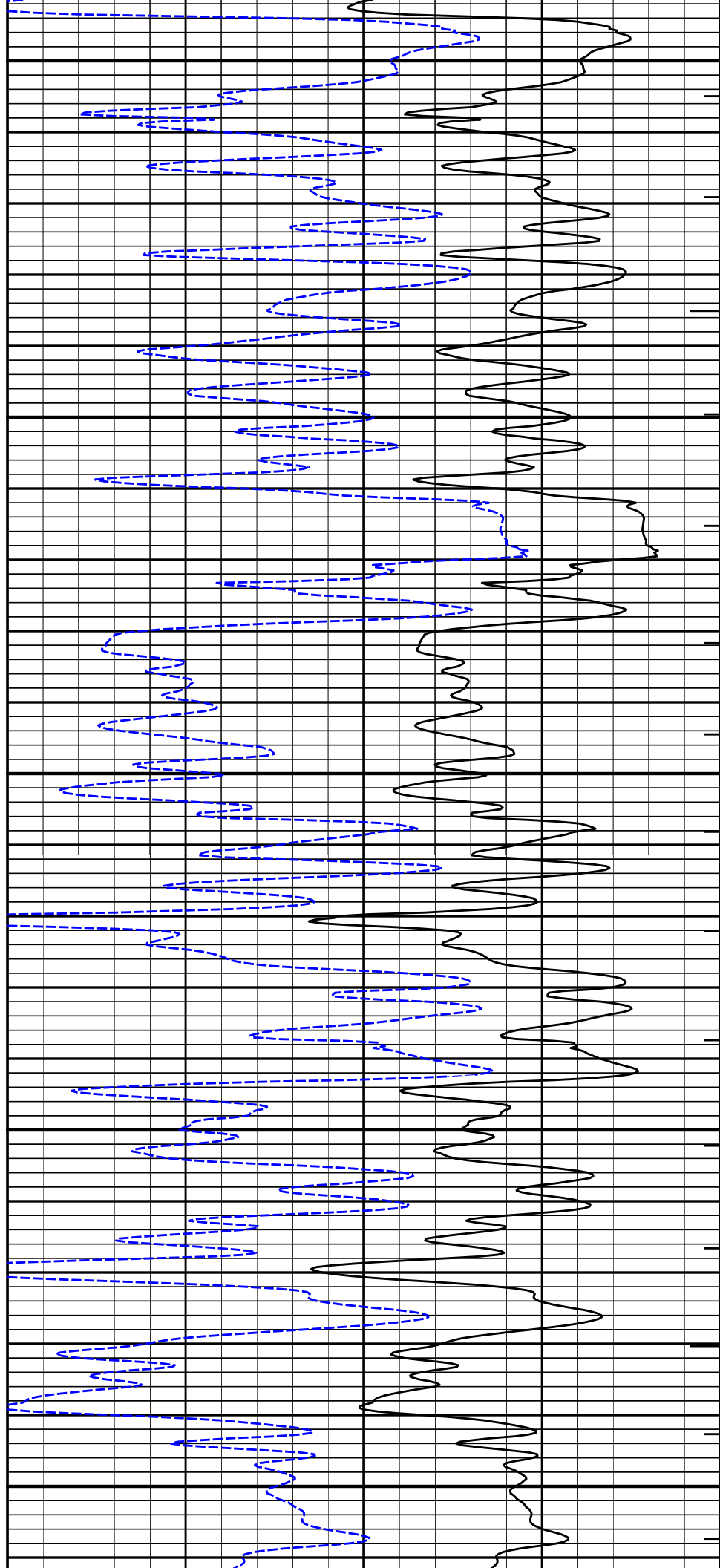
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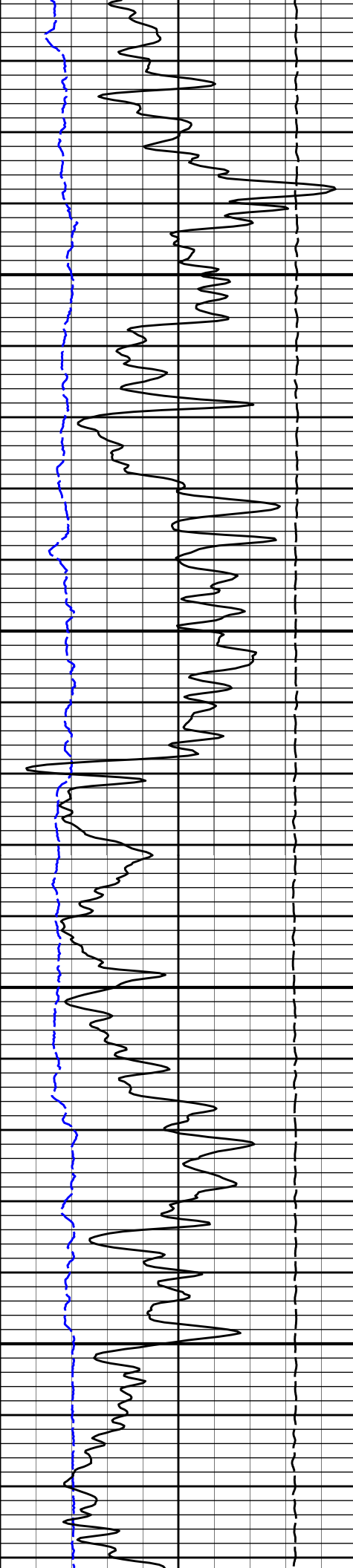




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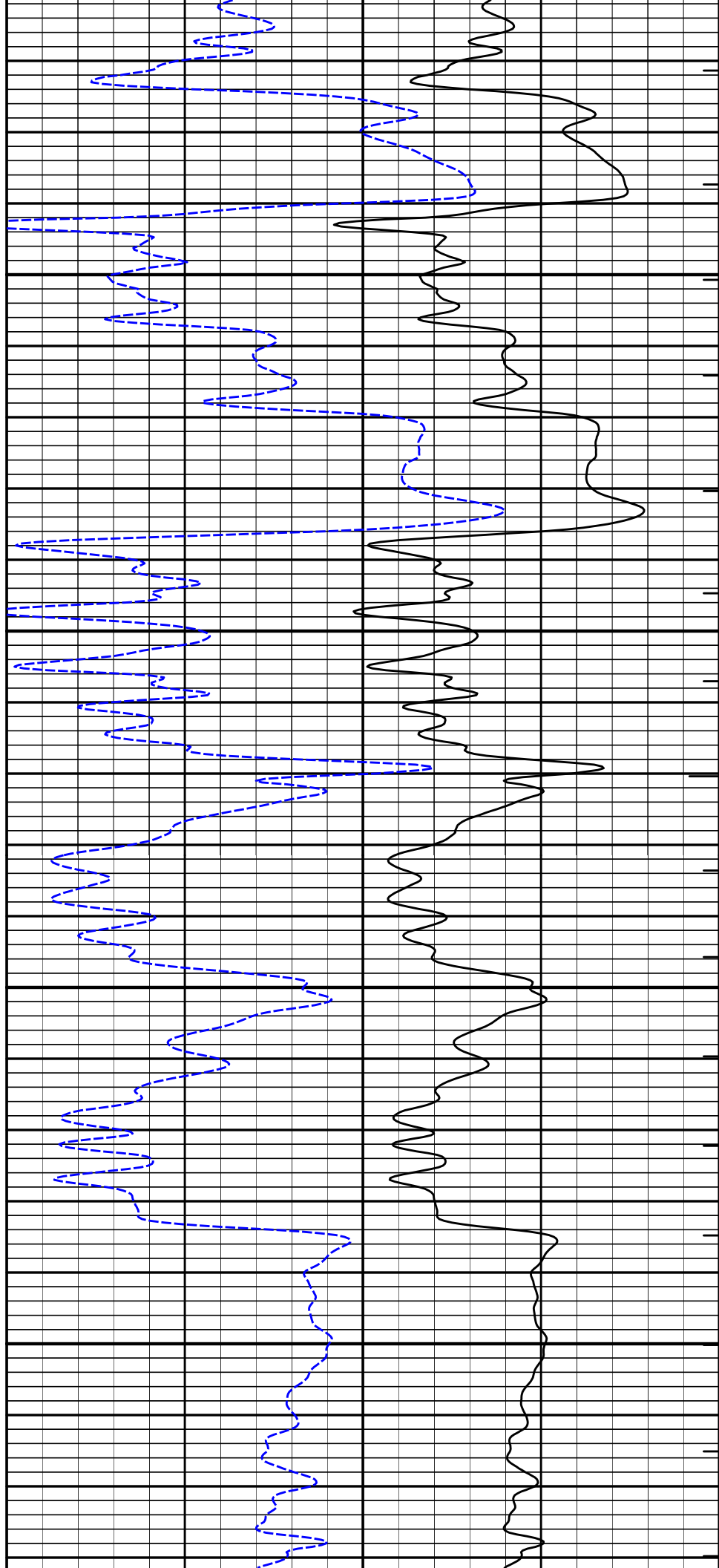
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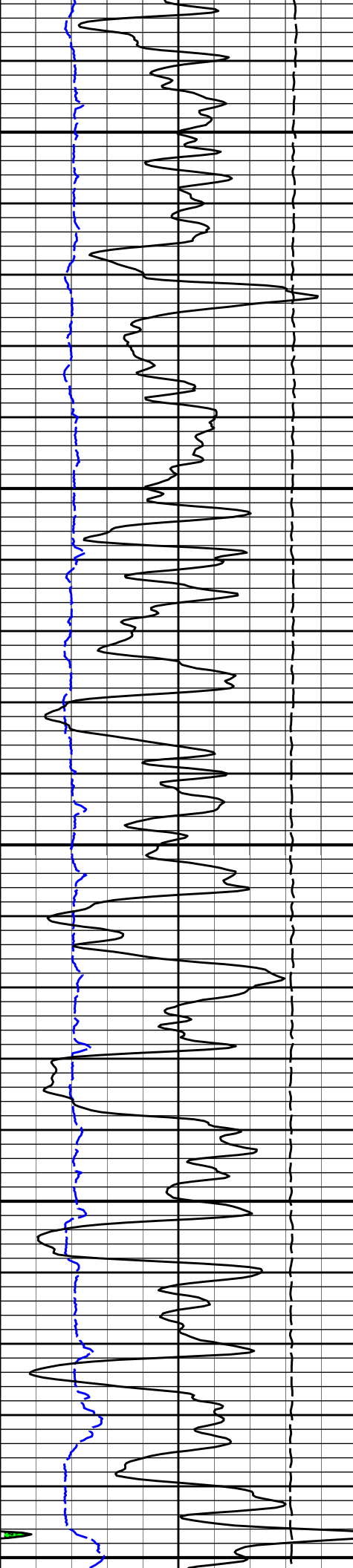




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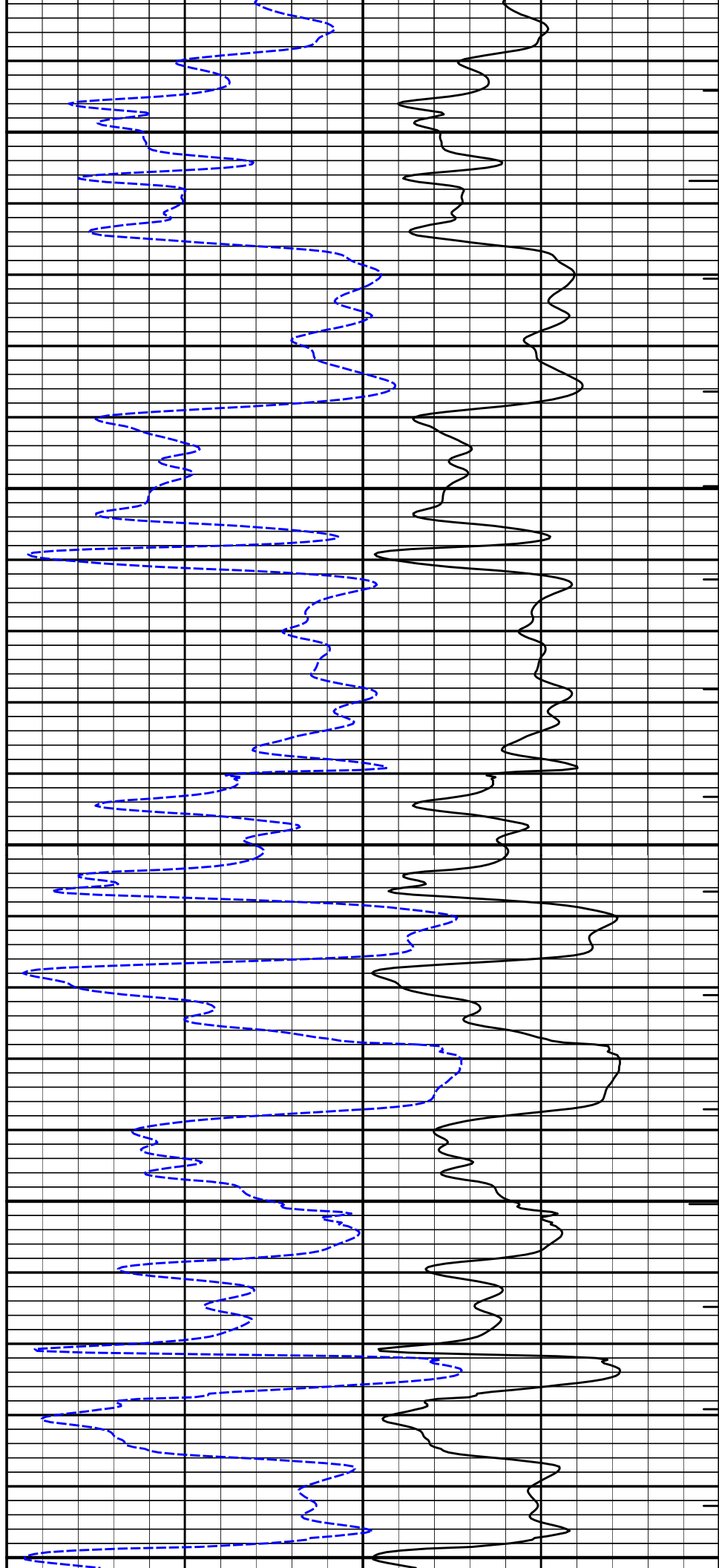


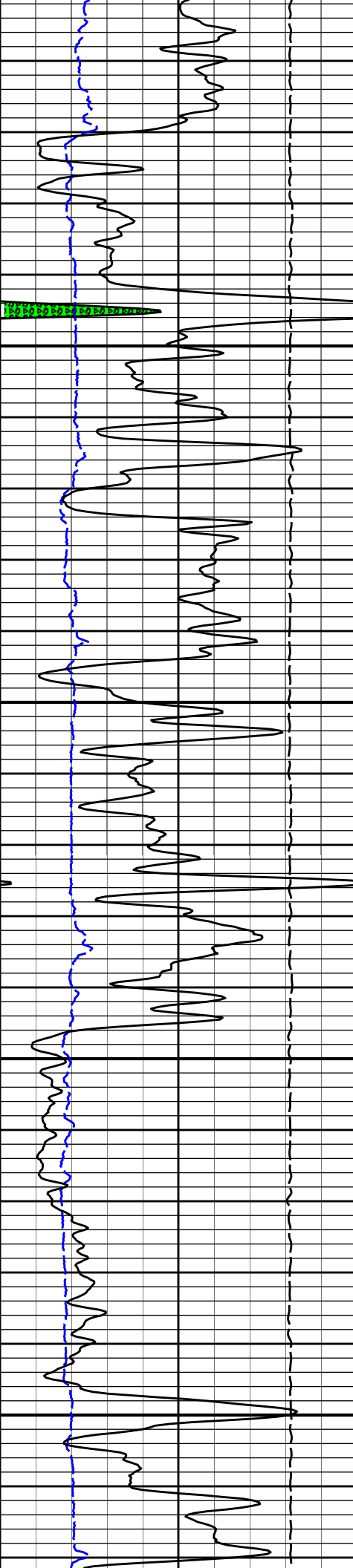


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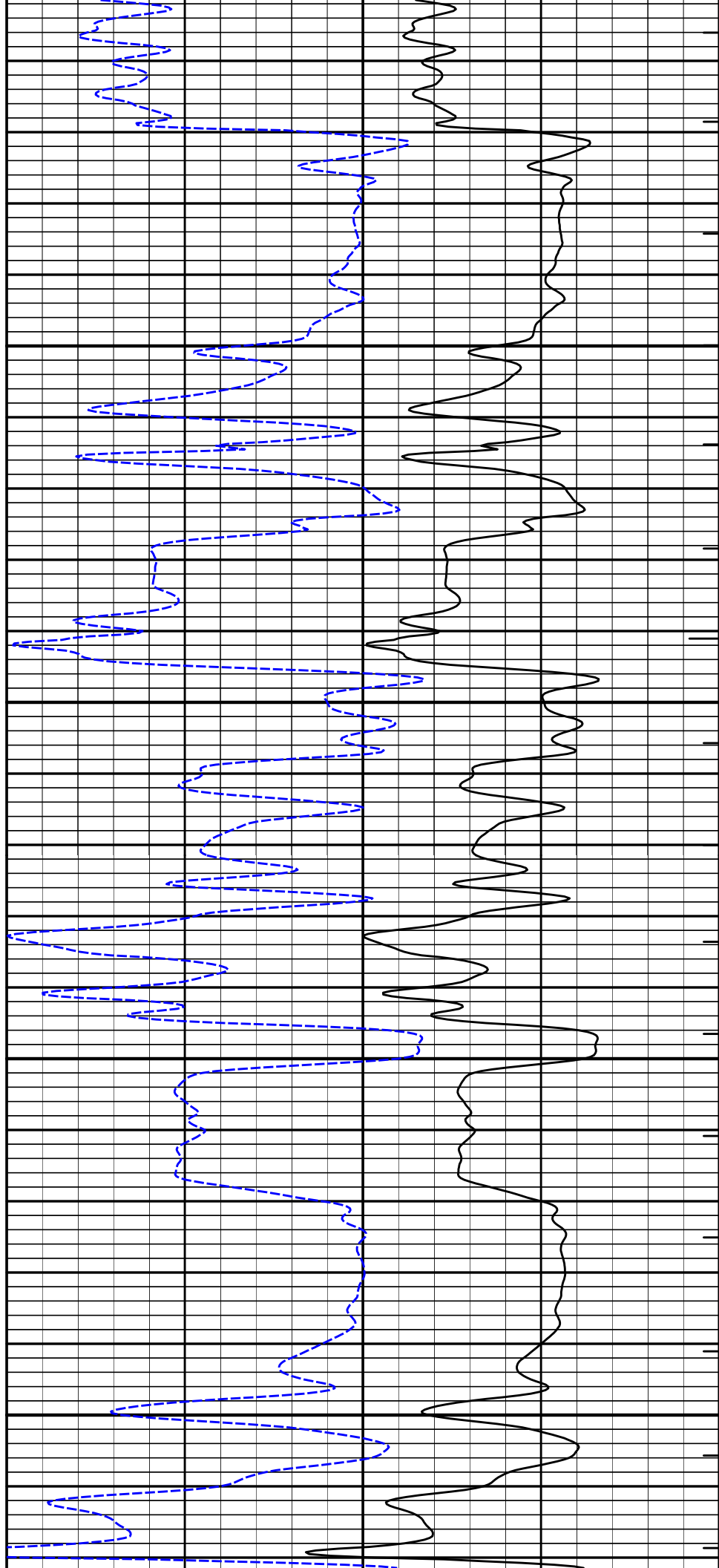
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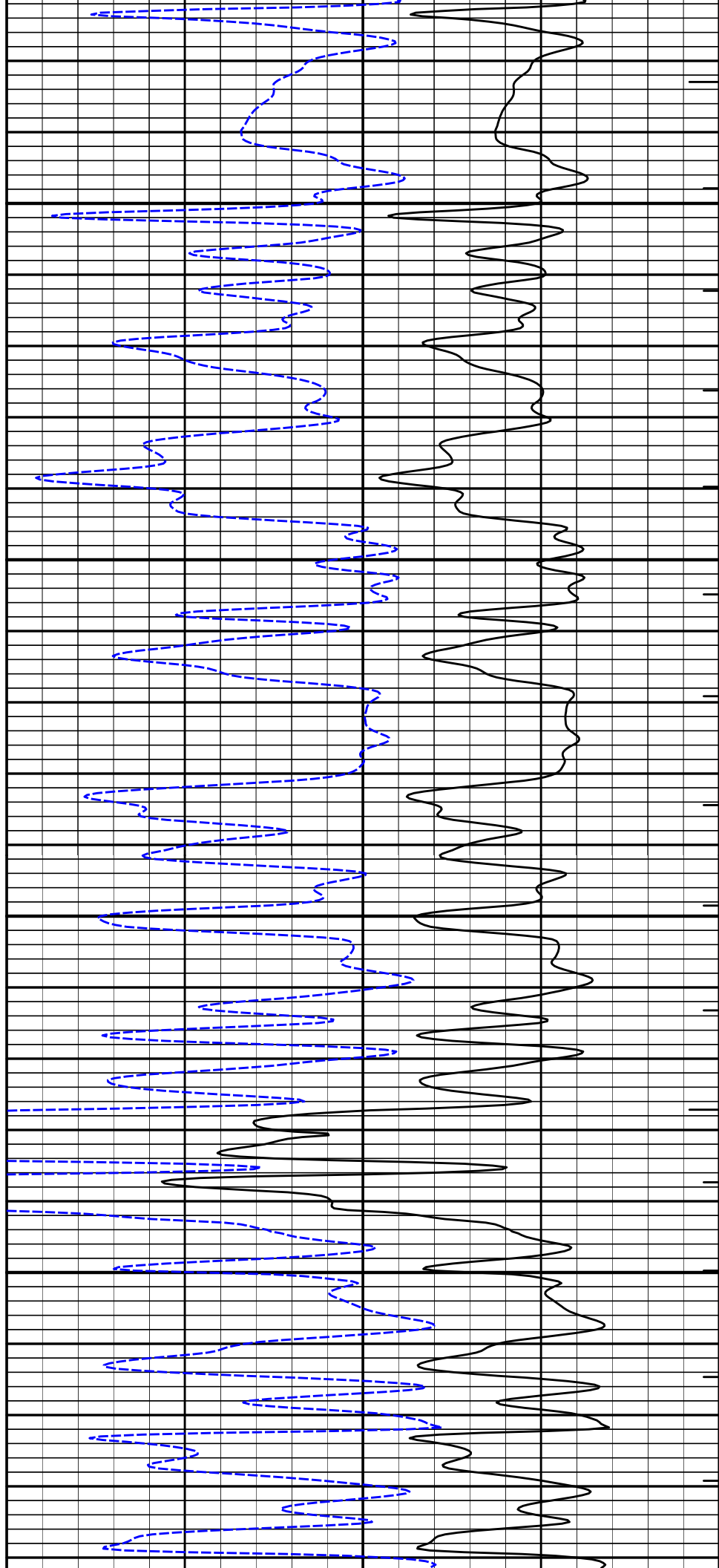
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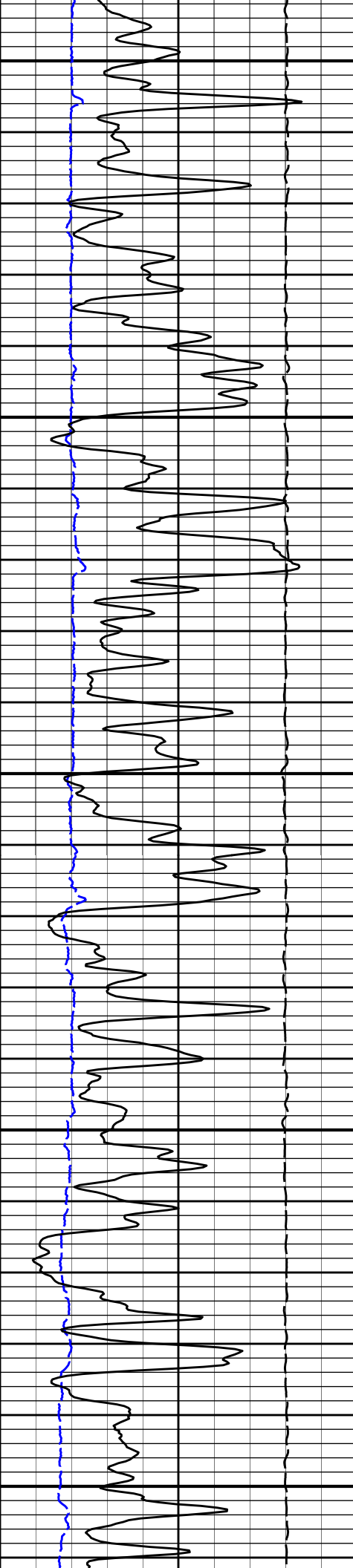




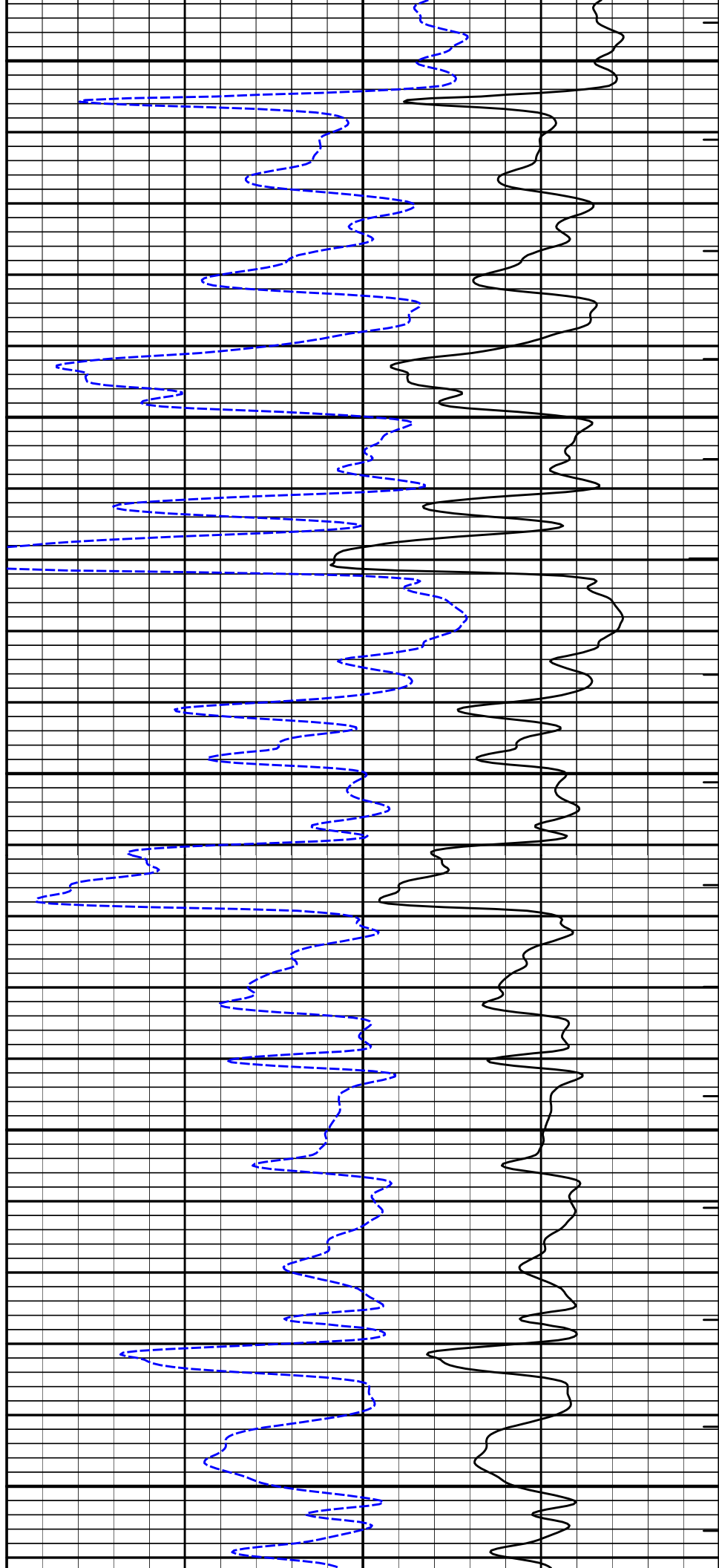
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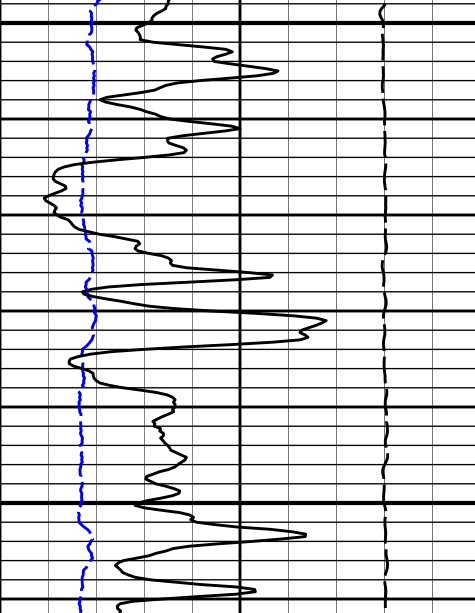


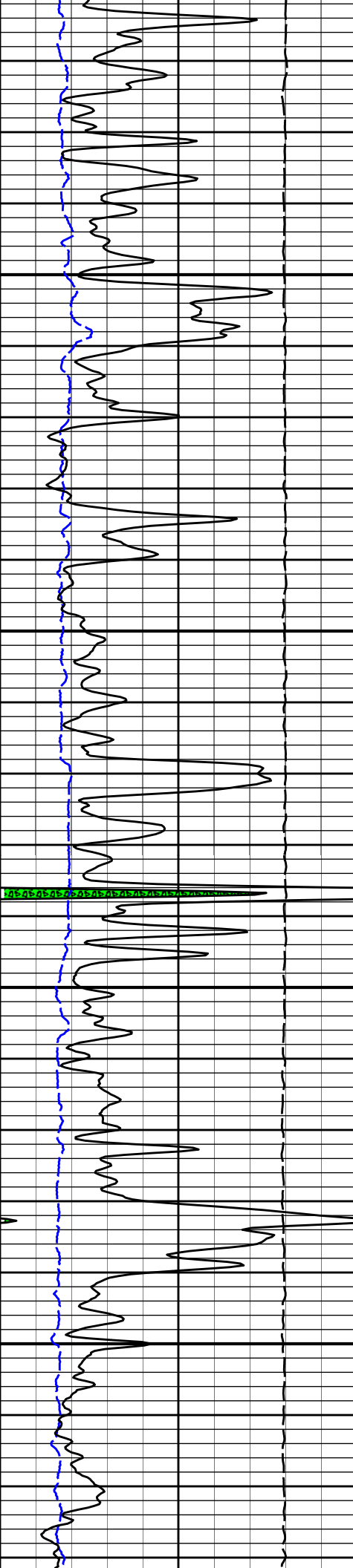


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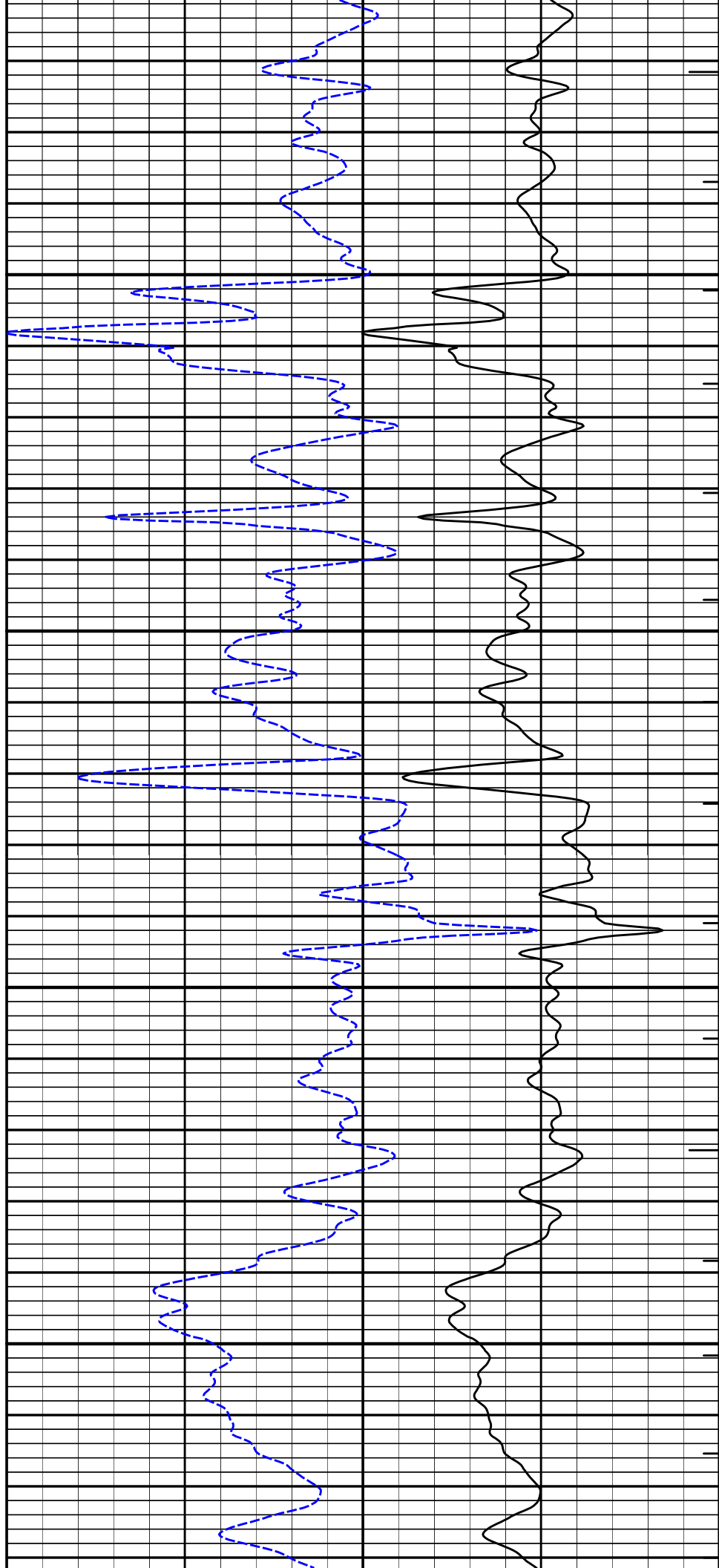
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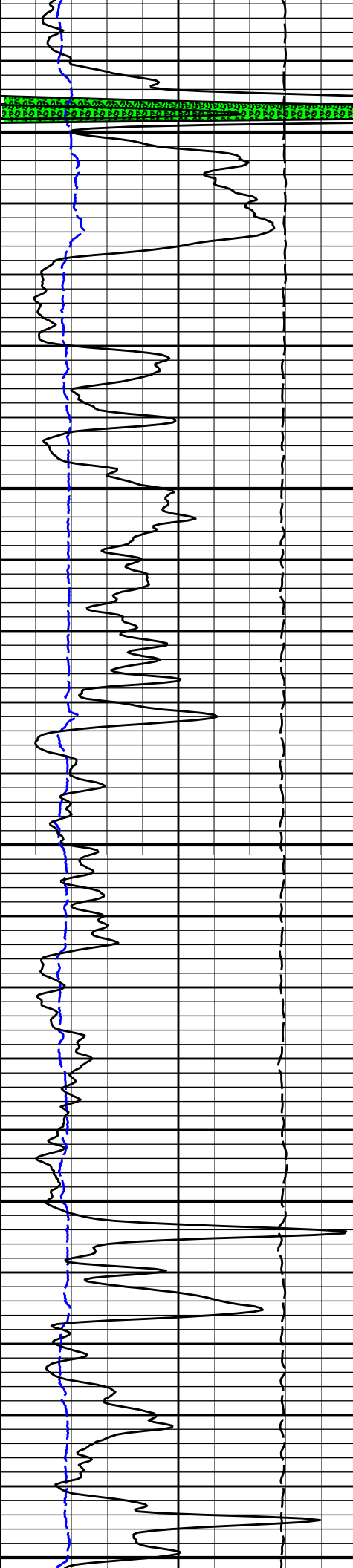




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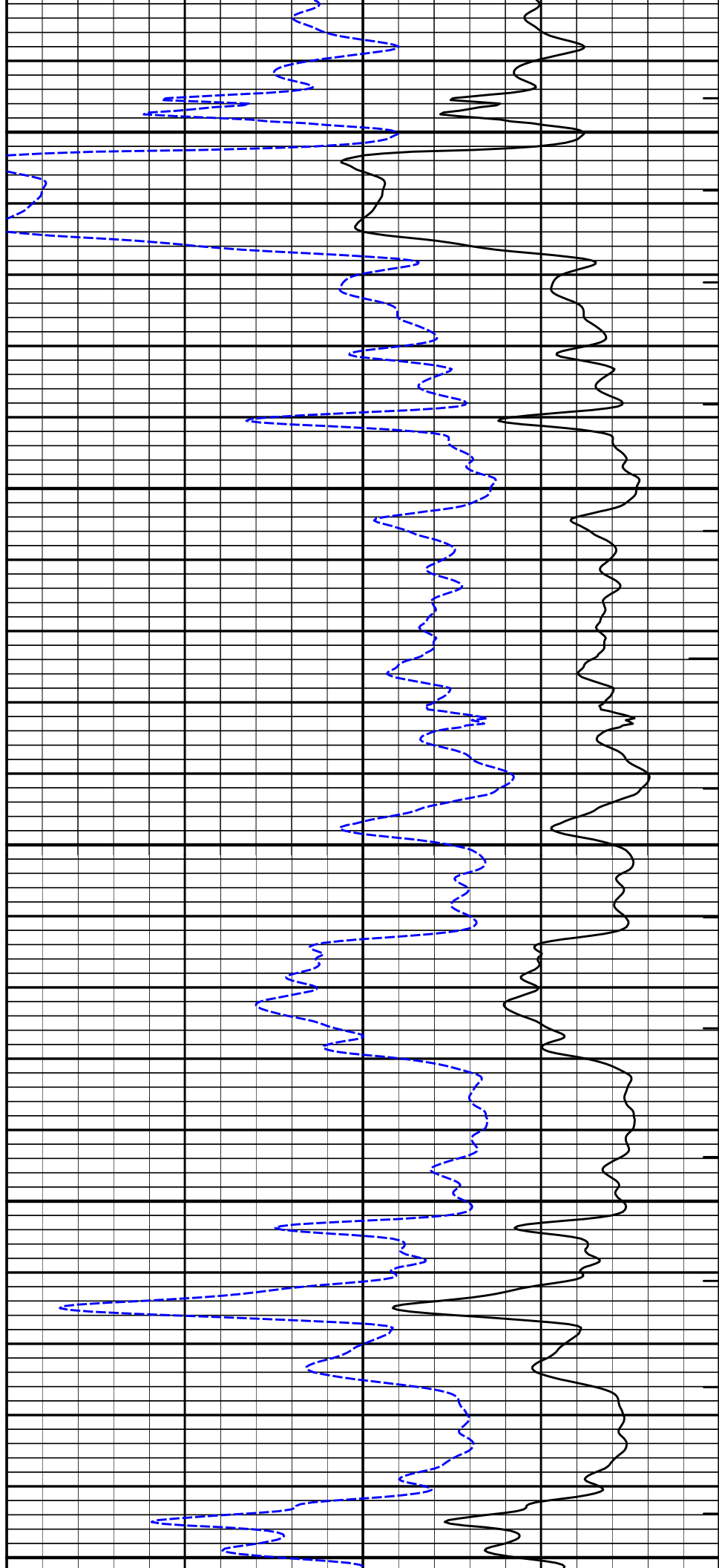


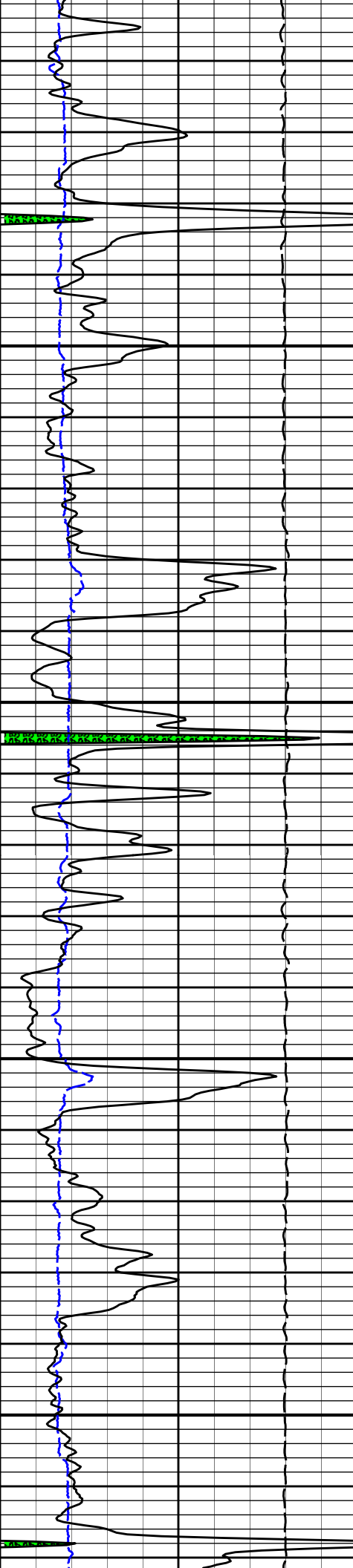


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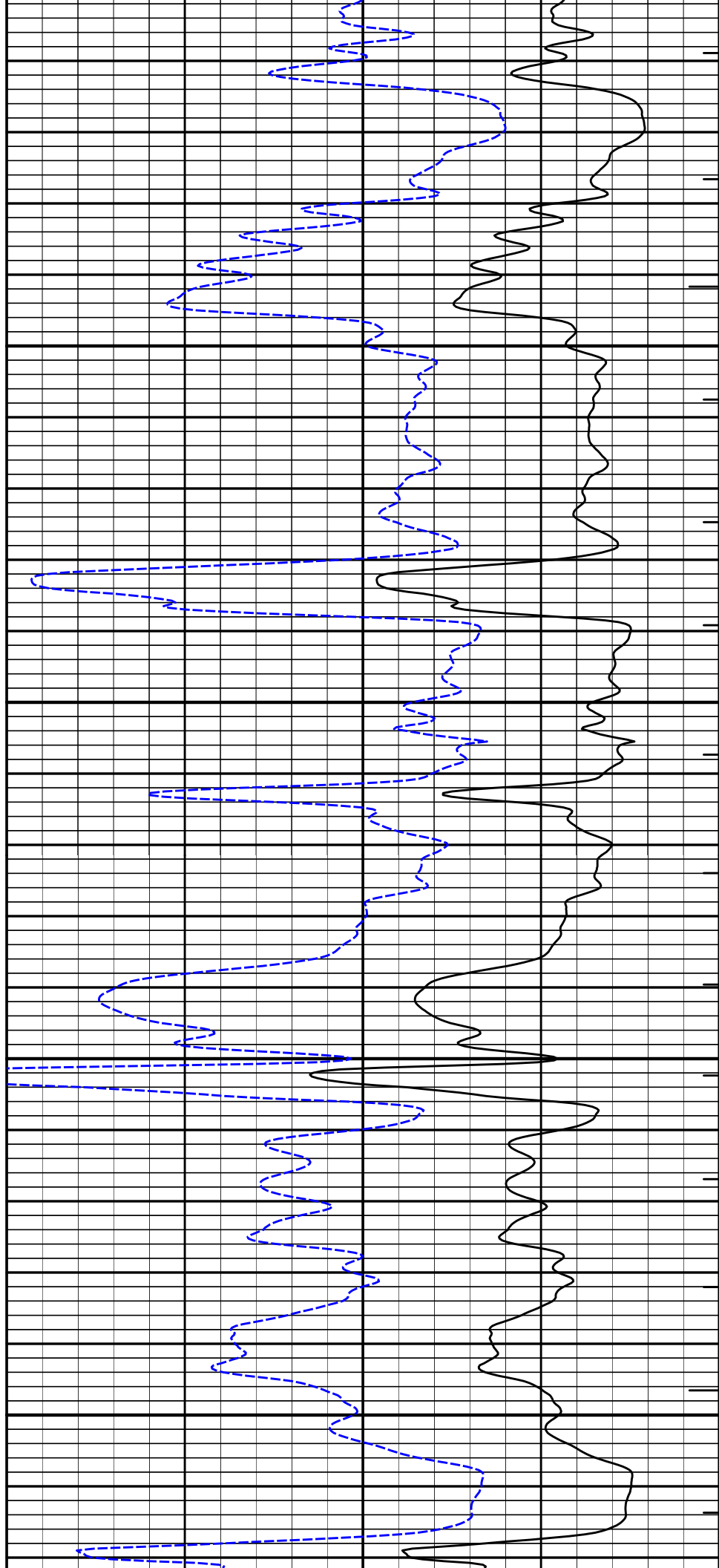
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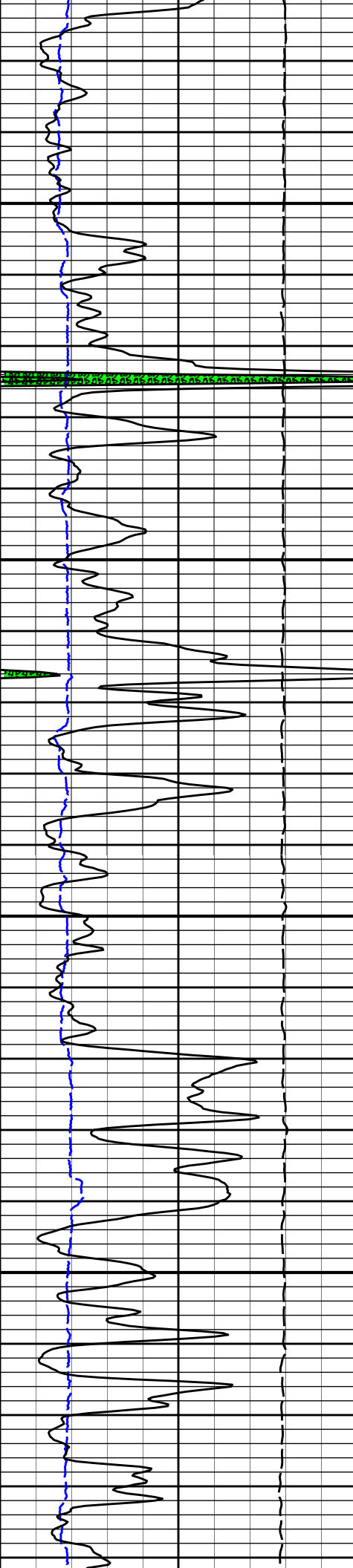




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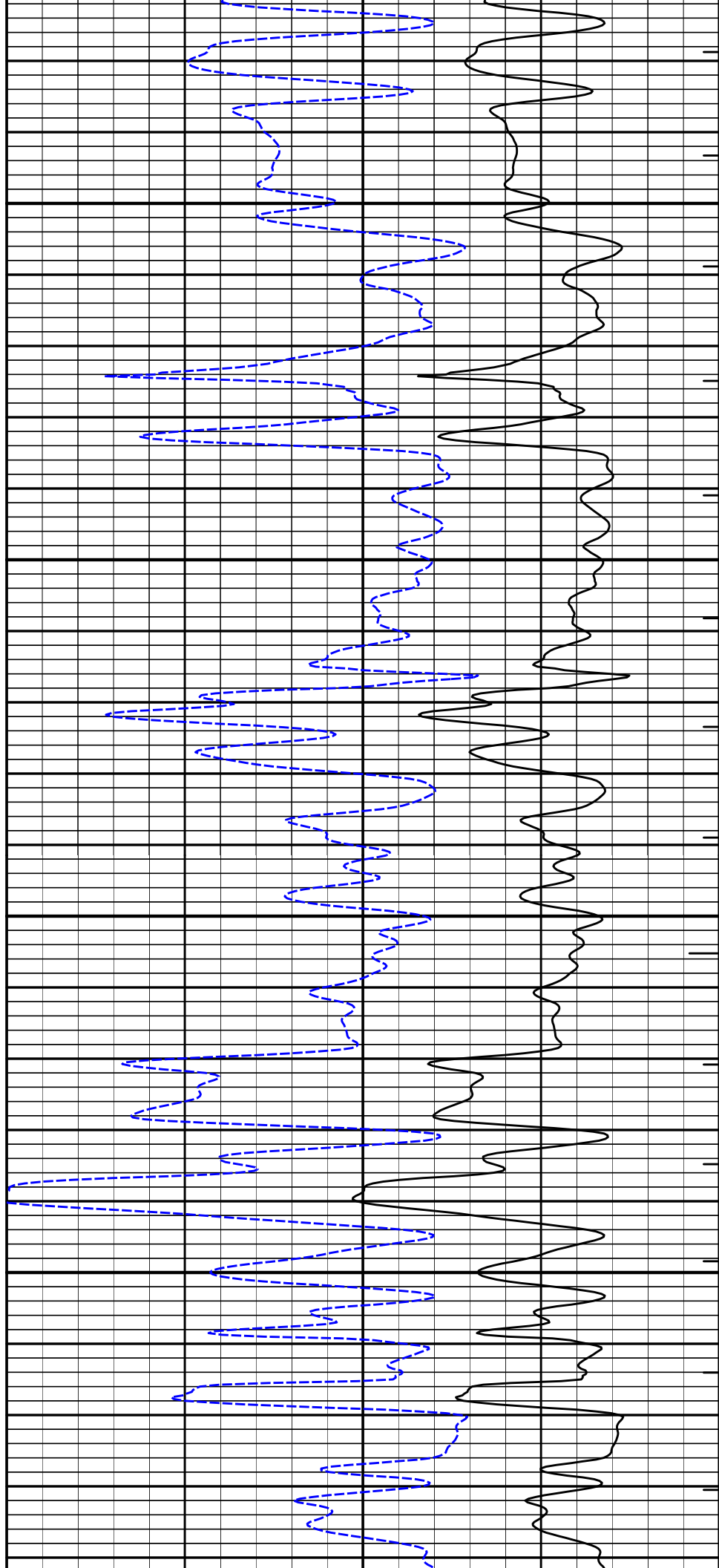
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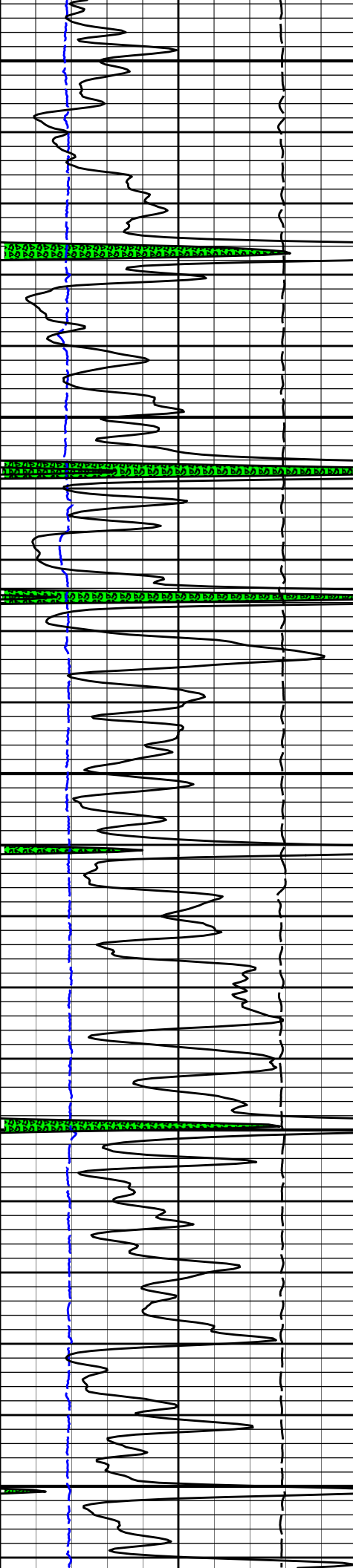




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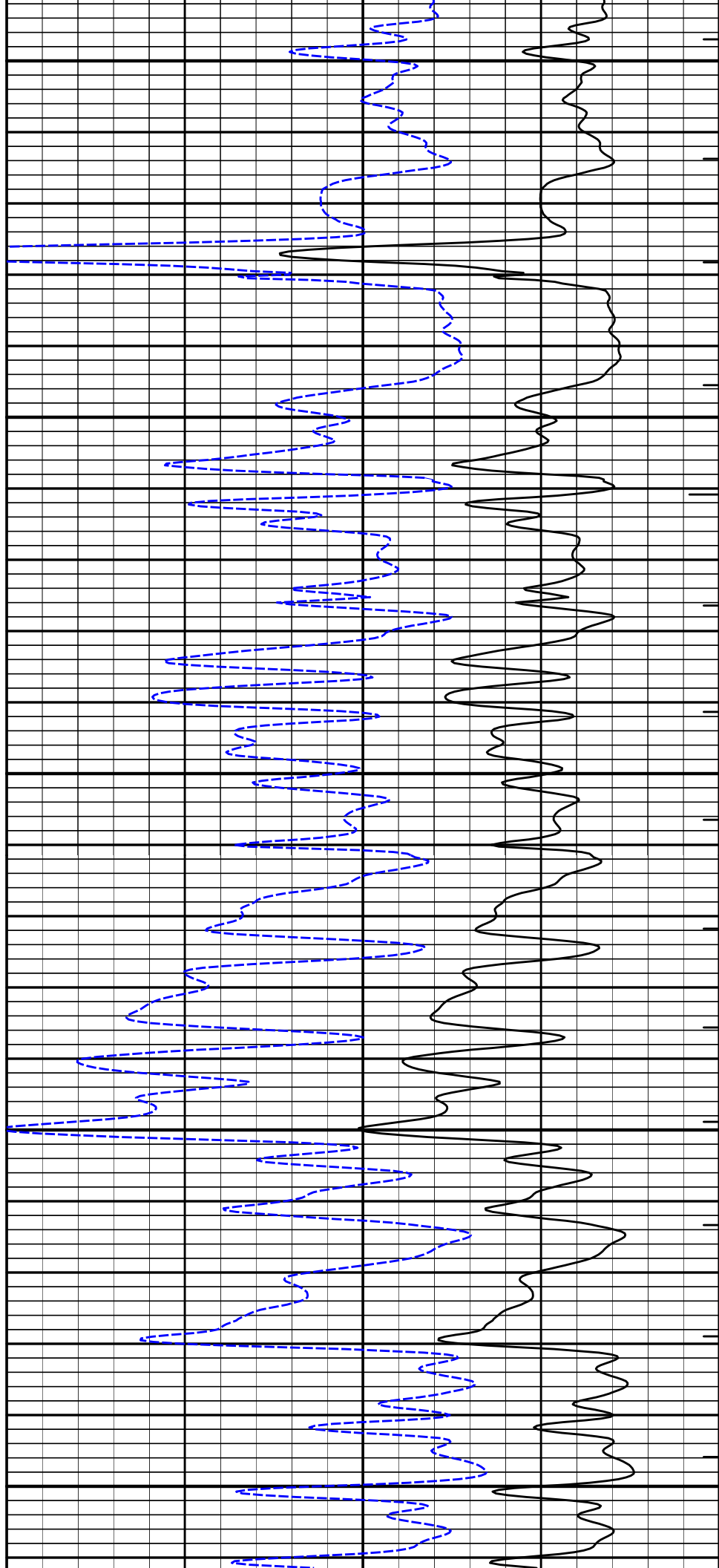
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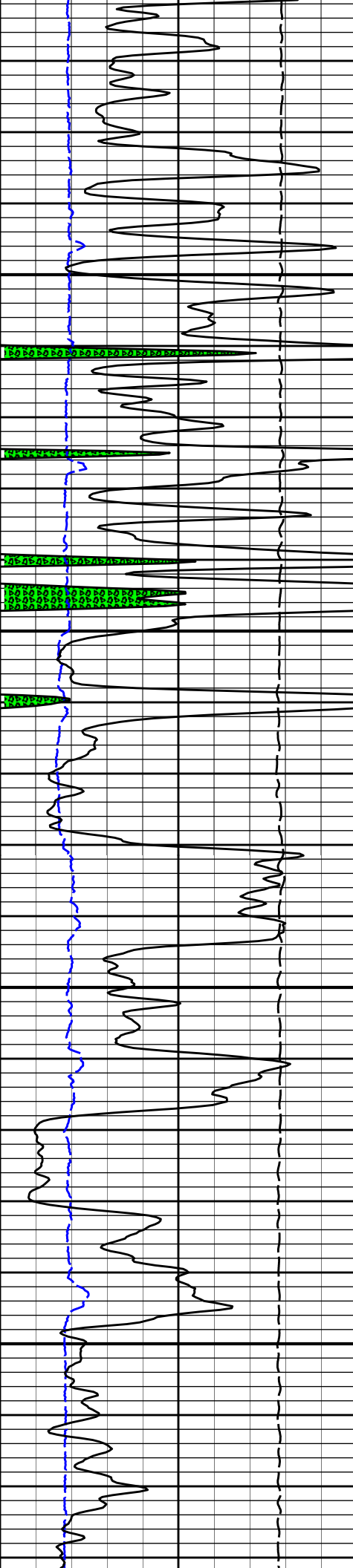




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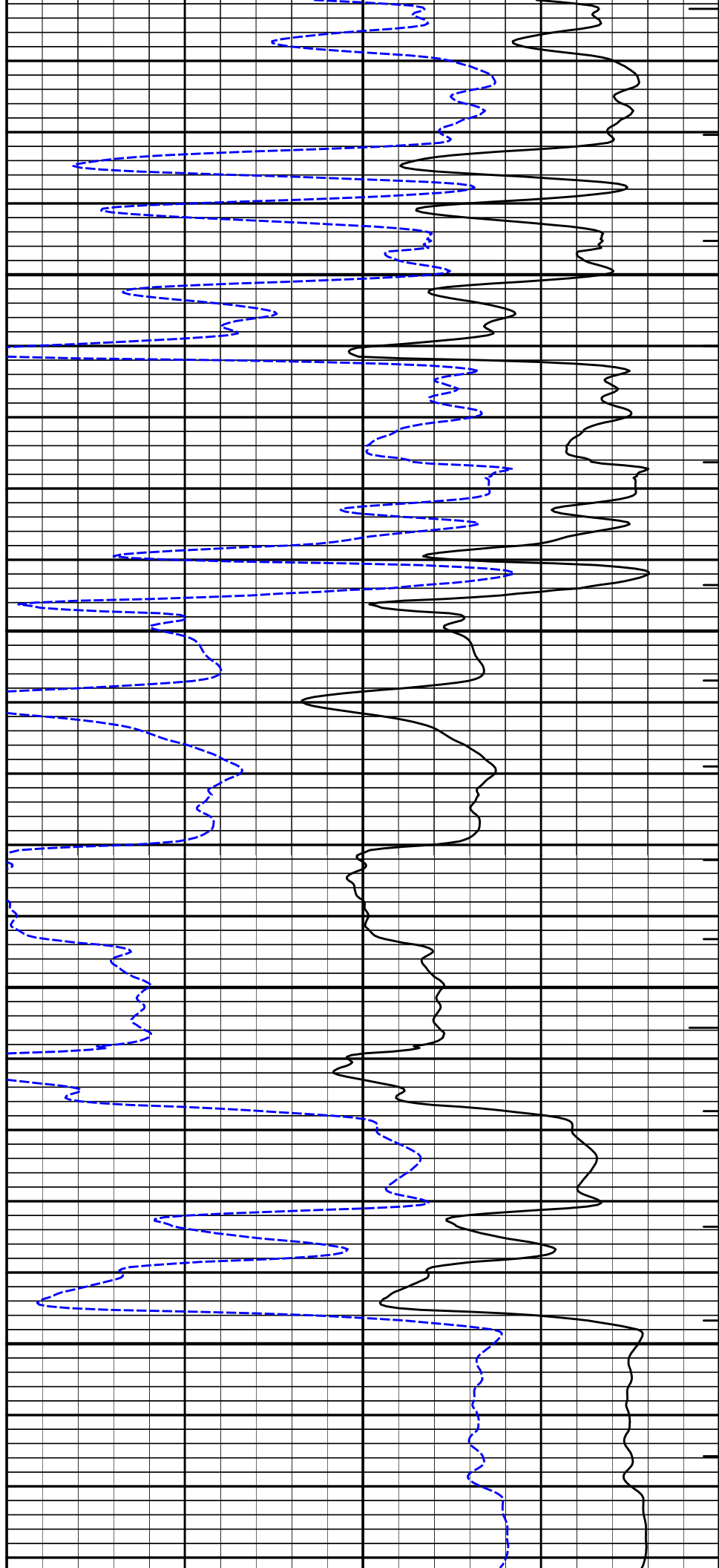
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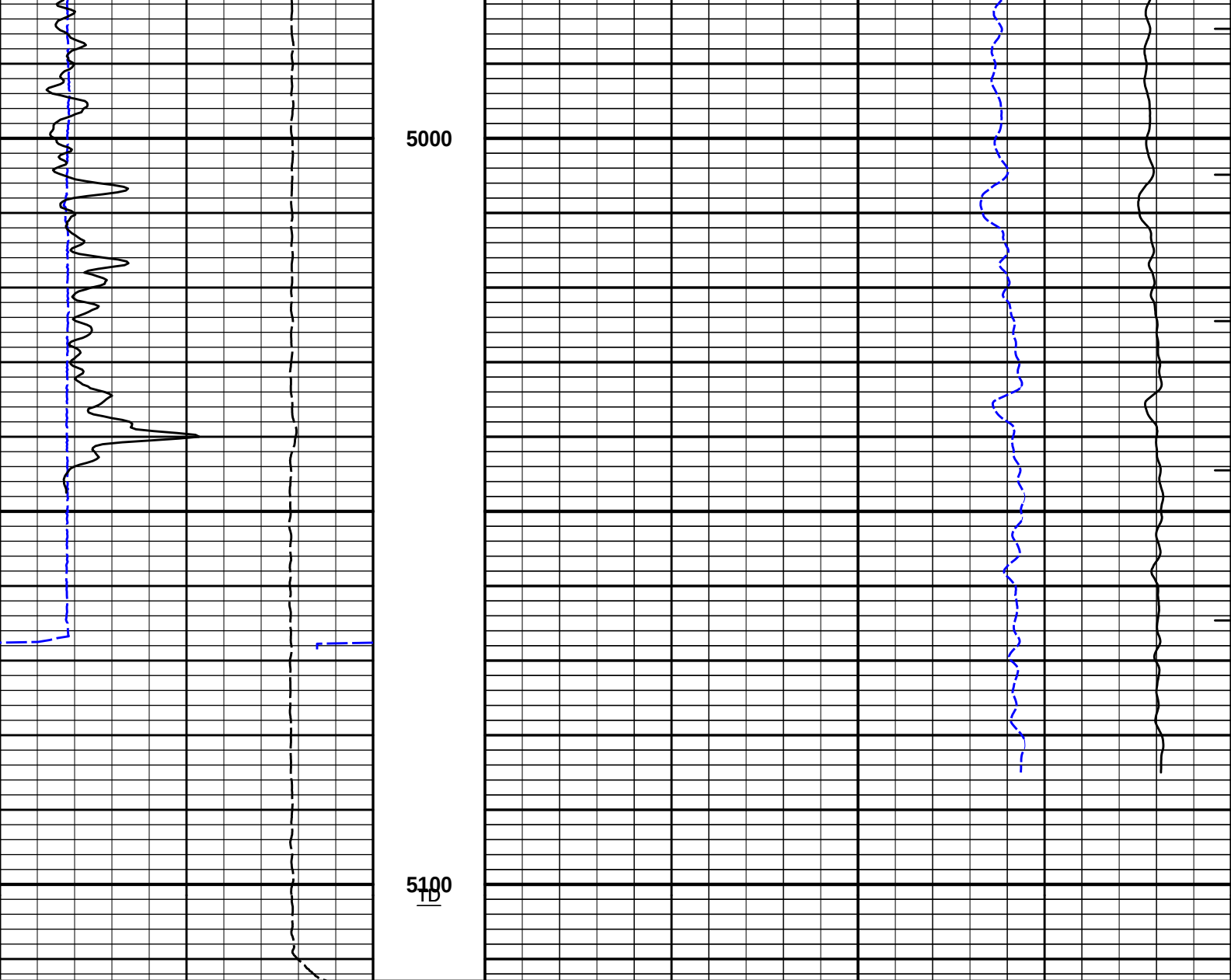




4800

4900





0		Gamma API	150	1 : 240 ft	ITTT	
		api				
15K		Tens	0		Delta-T	
		pounds			microsec per ft	
6		CALI	16		Acou Porosity	
		inches			percent	

HALLIBURTON

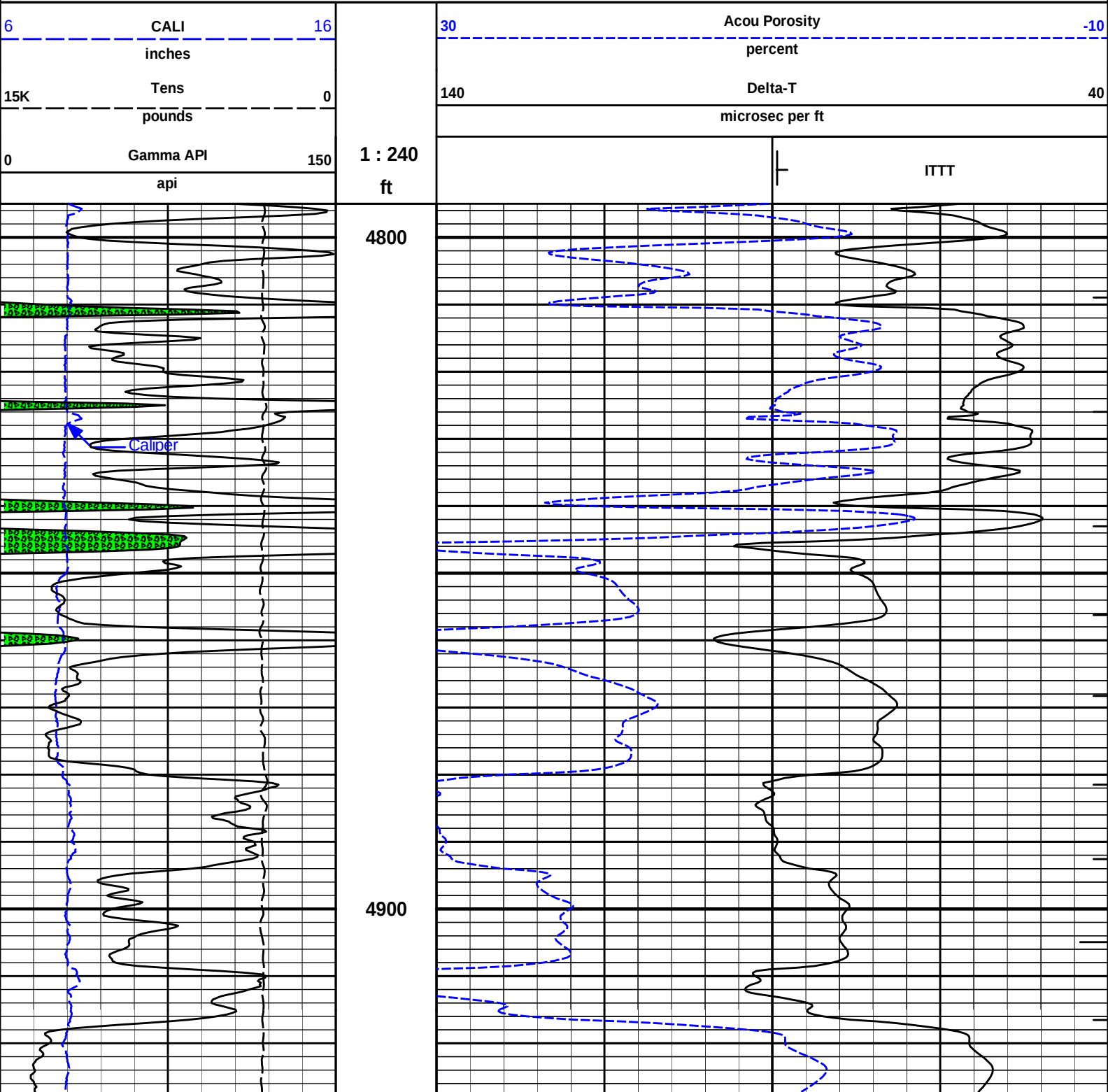
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Data: 03_08_MERITWell Based\DAQ-0001-004\
Plot File: \\\SONIC\BSAT_5inch

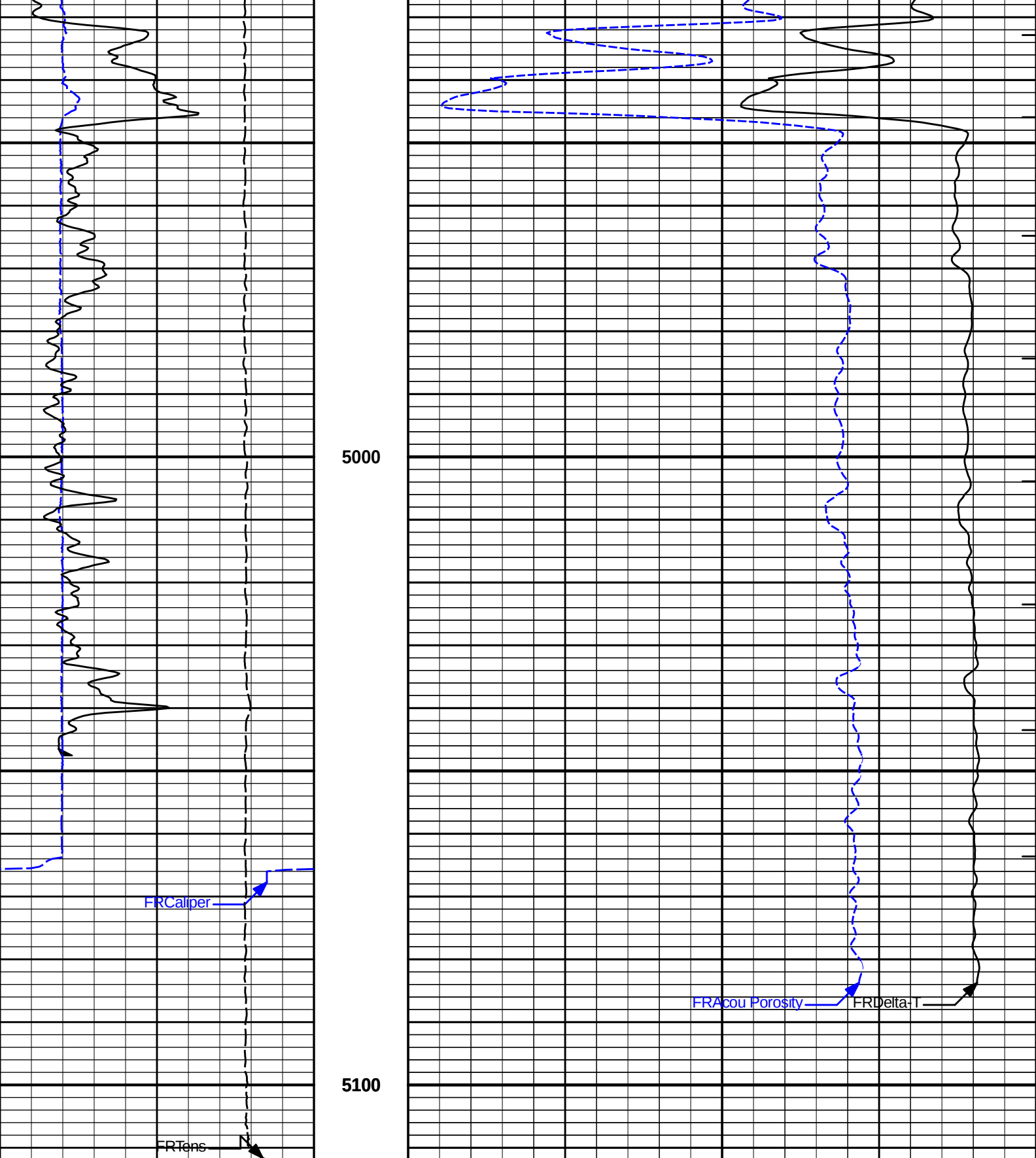
5 INCH MAIN LOG

MAIN LOG SECTION

REPEAT SECTION

REPEAT SECTION





0	Gamma API	150	1 : 240		ITTT
	api		ft		
15K	Tens	0		140	Delta-T
	pounds				microsec per ft
6	CALI	16	30		Acou Porosity
	inches				percent

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 10965404

Reference Calibration Date: 11-Dec-21 14:01:46

Engineer: MOHAMED ABUELGASIM

Calibration Date: 27-Feb-22 16:32:44

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	18.2	18.7	api
Background + Calibrator	218.7	225.3	api
Calibrator	200.5	206.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 10965404

Reference Calibration Date: 27-Feb-22 16:32:44

Engineer: MOHAMED ABUELGASIM

Calibration Date: 27-Feb-22 16:35:03

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

Field Verification	Shop	Field	Units
Background	18.7	18.5	api
Background + Calibrator	225.3	228.5	api
Calibrator	206.6	210.0	api

Shop	Field	Difference	Tolerance
206.6	210.0	-3.4	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11020487

Reference Calibration Date: 27-Feb-22 15:10:58

Engineer: K. BJERGA

Calibration Date: 27-Feb-22 15:25:58

Software Version: WL INSITE R6.6.1 (Build 2)

Calibration Version: 1

Logging Source S/N: 80408B

Tank Serial Number: 10585331

Reference value assigned to Tank: 54.090

Snow Block S/N: 7665

Calibration Tank Water Temperature: 55 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.00182	1.00388	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):	0.2238	0.2244	0.0006	+/- 0.0020
Calibrated Ratio:	10.1601	10.1809	0.021	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0706	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 - 11020487	Reference Calibration Date:	27-Feb-22 15:25:58
Engineer:	K. BJERGA	Calibration Date:	27-Feb-22 15:27:12
Software Version:	WL INSITE R6.6.1 (Build 2)	Calibration Version:	1

Logging Source S/N: 80408B
Snow Block S/N: 7665

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0706	0.0708	0.0002	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 12153520	Reference Calibration Date:	10-Dec-21 16:22:31
Engineer:	K. BJERGA	Calibration Date:	27-Feb-22 16:03:38
Software Version:	WL INSITE R6.6.1 (Build 2)	Calibration Version:	1
Host Tool Name:	DSNT - 11020487		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-4767.85	-5031.42	-7000.00 - -1000.00
Pad Gain	0.0003734	0.0003705	0.0002000 - 0.0006000
Arm Offset	-4898.38	-4754.64	-5000.00 - 3000.00
Arm Gain	0.0004695	0.0005126	0.000300 - 0.000700
Arm Power	-0.000001717	-0.000004623	-0.000010000 - 0.000010000

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

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)	2.11	2.00	-0.11	+/- 0.20
Medium Ring (in)	3.88	3.75	-0.13	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.41	6.50	0.09	+/- 0.20
Medium Ring (in)	8.08	8.25	0.17	+/- 0.20
Large Ring (in)	14.83	15.00	0.17	+/- 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 - 12153520	Reference Calibration Date:	27-Feb-22 16:03:38
Engineer:	K. BJERGA	Calibration Date:	27-Feb-22 16:05:17
Software Version:	WL INSITE R6.6.1 (Build 2)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.70	-0.05	+/- 0.10
Ring Diameter	8.25	8.25	0.00	+/- 0.15

PASS/FAIL SUMMARY	
Pad Extension Check:	Passed
Diameter Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT Pad - 10844781	Reference Calibration Date:	10-Dec-21 15:31:17
Engineer:	K. BJERGA	Calibration Date:	27-Feb-22 13:27:05
Software Version:	WL INSITE R6.6.1 (Build 2)	Calibration Version:	1

Logging Source S/N: 5440GW

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	1.0140	1.0094	0.90 - 1.10
Near Dens Gain	1.0084	0.9970	0.90 - 1.10
Near Peak Gain	1.0130	0.9960	0.90 - 1.10
Near Lith Gain	1.0079	0.9866	0.90 - 1.10
Far Bar Gain	1.0064	1.0015	0.90 - 1.10
Far Dens Gain	0.9953	0.9929	0.90 - 1.10
Far Peak Gain	0.9919	0.9890	0.90 - 1.10
Far Lith Gain	0.9610	0.9611	0.90 - 1.10
Near Bar Offset	0.1028	0.1389	NONE
Near Dens Offset	0.1230	0.2182	NONE

Near Dens Offset	0.1230	0.2102	NONE
Near Peak Offset	0.0626	0.1971	NONE
Near Lith Offset	0.0869	0.2688	NONE
Far Bar Offset	0.1123	0.1522	NONE
Far Dens Offset	0.1848	0.2040	NONE
Far Peak Offset	0.1628	0.1903	NONE
Far Lith Offset	0.3337	0.3489	NONE
Near Bar Background	790.62	787.11	700 - 1450
Near Dens Background	259.66	257.82	230 - 480
Near Peak Background	112.96	112.40	100 - 210
Near Lith Background	138.97	139.12	125 - 260
Far Bar Background	630.54	630.40	450 - 900
Far Dens Background	248.36	248.66	175 - 345
Far Peak Background	98.46	98.11	70 - 140
Far Lith Background	101.27	102.22	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.683	1.679	-0.004	+/- 0.015
Pe	2.566	2.535	-0.031	+/- 0.150
ALUMINUM				
Density (g/cc)	2.599	2.595	-0.004	+/- 0.01500
Pe	3.292	3.210	-0.082	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0006	+/- 0.0110	-0.0018	+/- 0.0140
Magnesium Block	-0.0014	+/- 0.0110	-0.0022	+/- 0.0140
Aluminum Block	-0.0015	+/- 0.0110	-0.0003	+/- 0.0140
Resolution	9.64	6.00 - 11.50	8.84	6.00 - 11.50
Internal Verifier(B+D+P+L)	1296	1200 - 2700	1079	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

MICRO LOG SHOP CALIBRATION

Tool Name:	Microlog Pad - 12153520	Reference Calibration Date:	22-Jan-22 10:41:51
Engineer:	K. BJERGA	Calibration Date:	27-Feb-22 16:07:34
Software Version:	WL INSITE R6.6.1 (Build 2)	Calibration Version:	1
Host Tool Name:	DSNT - 11020487		

CALIBRATION COEFFICIENT SUMMARY

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	0.13	0.14	0.20	0.20	ohmm
Calibration Point #1	0.19	0.20	0.20	0.20	ohmm
Calibration Point #2	20.03	20.00	20.05	20.00	ohmm
Internal Reference	19.96	19.93	20.05	20.00	ohmm
Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
Tool Zero	1.82		-0.24		V
Calibration Point #1	18.19		0.75		V
Calibration Point #2	5272.26		6898.65		V
Internal Reference	5253.79		6899.93		V

MICRO LOG FIELD CHECK			
Tool Name:	Microlog Pad - 12153520	Reference Calibration Date:	27-Feb-22 16:07:34
Engineer:	K. BJERGA	Calibration Date:	27-Feb-22 16:08:17
Software Version:	WL INSITE R6.6.1 (Build 2)	Calibration Version:	1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	0.14	0.14	0.20	0.20	ohmm
Internal Reference	19.93	19.93	20.00	20.01	ohmm
Summary					
Signal	Shop	Field	Difference	Tolerance	
Microlog Normal	19.93	19.93	0.00	+/- 0.80	
Microlog Lateral	20.00	20.01	-0.01	+/- 0.80	

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt Sonde - 10988480	Reference Calibration Date:	09-Dec-21 11:41:44
Engineer:	MOHAMED ABUELGASIM	Calibration Date:	09-Dec-21 11:51:35
Software Version:	WL INSITE R6.4.10 (Build 2)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 10988483		

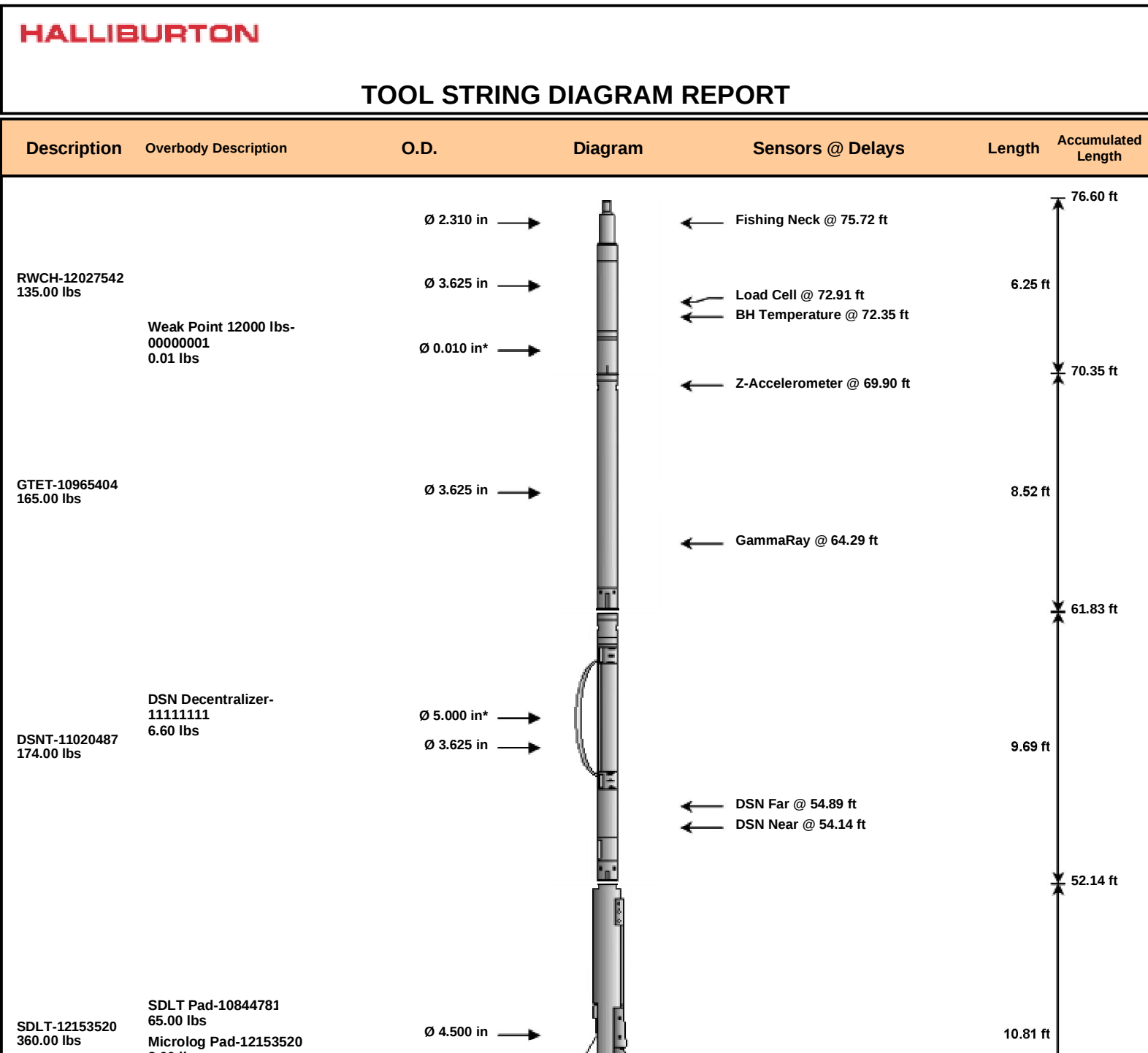
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0133	1.05	0.95	1.0131	1.05	0.95	1.0116	1.05
A2 (50")	0.95	1.0121	1.05	0.95	1.0101	1.05	0.95	1.0030	1.05
A3 (29")	0.95	1.0064	1.05	0.95	1.0050	1.05	0.95	1.0025	1.05
A4 (17")	0.95	1.0036	1.05	0.95	0.9972	1.05	0.95	0.9951	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9880	1.05	0.95	0.9850	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9800	1.05	0.95	0.9796	1.05
SONDE OFFSET									
Subarray	R12KHz			R36KHz			R72KHz		
	(mmho/m)			(mmho/m)			(mmho/m)		
A1 (80")	-1.162			-4.242			-5.133		
A2 (50")	-1.248			-3.111			-4.266		
A3 (29")	-11.707			-4.977			-6.189		
A4 (17")	-103.564			-32.685			-27.479		
A5 (10")	N/A			-101.599			-46.672		

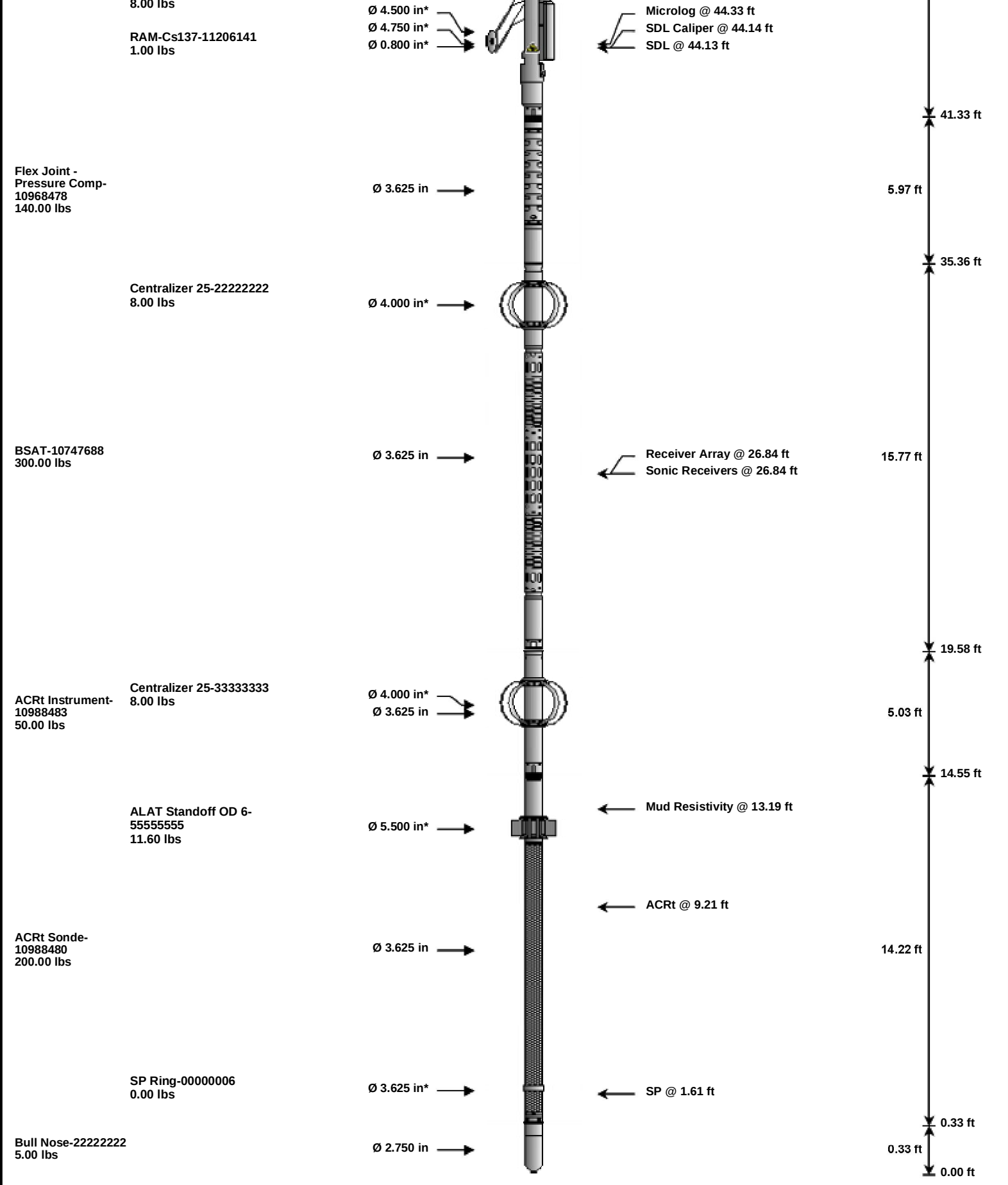
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10965404						
Gamma Ray Calibrator	206.6	210.0	-----	-3.4	+/- 9.00	api
DSNT-11020487						
Snow-Block Porosity	0.0706	0.0708	-----	-0.0002	+/- 0.0150	decp
SDLT-12153520						
Pad Extension	3.75	3.70	-----	0.05	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
SDLT Pad-10844781						
Near(B+D+P+L)	1296.448	-----	-----	0.000	+/-12.760	cps
Far(B+D+P+L)	1079.385	-----	-----	0.000	+/-15.730	cps
Microlog Pad-12153520						
MicroLog Normal	19.93	19.93	-----	0.00	+/-0.80	ohmm
MicroLog Lateral	20.00	20.01	-----	-0.01	+/-0.80	ohmm
ACRt Sonde-10988480						
Mud Cell	1.00	-----	-----	0	-----	ohm-m
Data: 03_08_MERIT0001 QUAD_ML_BSATIDLE				Date: 08-Mar-22 19:14:07		

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	Borehole Fluid Weight	9.100	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	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICSD	ALUM casing OD	5.500	in

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	10000.00	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	Density	
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	
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	DFL	Formation Density Fluid	1.000	g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
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	DTSN	Delta-T Slave	100.00	uspr
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				
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Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		12027542	135.00	6.25	70.35	300.00
WP12K	Weak Point 12000 lbs		00000001	0.01	0.01	* 71.15	300.00
GTET	Gamma Telemetry Tool		10965404	165.00	8.52	61.83	60.00
DSNT	Dual Spaced Neutron		11020487	174.00	9.69	52.14	60.00
DCNT	DSN Decentralizer		11111111	6.60	5.13	* 55.47	300.00
SDL T	Spectral Density Tool		12153520	360.00	10.81	41.33	60.00

SDLT	Spectral Density Tool	12153520	300.00	10.01		41.00	60.00
SDLP	Density Insite Pad	10844781	65.00	2.55	*	43.54	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	11206141	1.00	0.80	*	43.77	300.00
MICP	Microlog Pad	12153520	8.00	1.00	*	43.83	60.00
FLEX	Flex Joint - Pressure Compensated	10968478	140.00	5.97		35.36	300.00
BSAT	Borehole Sonic Array Tool	10747688	300.00	15.77		19.58	60.00
OBCEN	Centralizer - 25 in. Overbody	22222222	8.00	2.08	*	32.62	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10988483	50.00	5.03		14.55	120.00
OBCEN	Centralizer - 25 in. Overbody	33333333	8.00	2.08	*	16.39	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10988480	200.00	14.22		0.33	120.00
SP	SP Ring	00000006	0.00	0.25	*	1.61	300.00
ALATS	Array Laterolog Tool OD 6 Standoff	55555555	11.60	1.00	*	11.89	60.00
BLNS	Bull Nose	22222222	5.00	0.33		0.00	300.00
Total			1,637.21	76.60			
* Not included in Total Length and Length Accumulation.							
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Date: 08-Mar-22 18:50:38							

COMPANY	MERIT ENERGY COMPANY, LLC					
WELL	McWILLIAMS E-11					
FIELD	COWGILL					
COUNTY	FINNEY	STATE	KANSAS			
HALLIBURTON			BOREHOLE SONIC ARRAY LOG			