

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG


COMPANY				RAMSEY PROPERTY MANAGEMENT			
WELL				HOLT #1			
FIELD/BLOCK				VERDE			
COUNTY				BACA			
STATE				COLORADO			
Permanent Datum				GL			
Log measured from				KB			
Drilling measured from				KB			
Date				16-Sep-13			
Run No.				ONE			
Depth - Driller				4800.00 ft			
Depth - Logger				4792.0 ft			
Bottom - Logged Interval				4782.0 ft			
Top - Logged Interval				1386.0 ft			
Casing - Driller				8.625 in @ 1391.0 ft			
Casing - Logger				1386.0 ft			
Bit Size				7.875 in @			
Type Fluid in Hole				WATER BASED MUD			
Density				9.2 ppg 36.00 s/qt			
PH				9.00 pH 8.8 cphm			
Source of Sample				MUD PIT			
Rm @ Meas. Temperature				2.200 ohmm @ 75.00 degF			
Rmf @ Meas. Temperature				1.50 ohmm @ 75.00 degF			
Rmc @ Meas. Temperature				3.100 ohmm @ 75.00 degF			
Source Rmf				MEASURED			
Rm @ BHT				1.41 ohmm @ 121.0 degF			
Time Since Circulation				5.0 hr			
Time on Bottom				16-Sep-13 07:07			
Max. Rec. Temperature				121.0 degF @ 4792.0 ft			
Equipment				11072142 LIBERAL			
Recorded By				J. BOLLOM			
Witnessed By				C. ANDREWS			

COMPANY				RAMSEY PROPERTY MANAGEMENT			
WELL				HOLT #1			
FIELD/BLOCK				VERDE			
COUNTY				BACA			
STATE				COLORADO			
API No.				05-009-06676			
Location				(SHL) 215 FSL & 397 FWL			
Sect.				31			
Twp.				34S			
Rge.				42W			
Elev.				3640.0 ft			
D.F.				3649.0 ft			
G.L.				3640.0 ft			
Other Services:				MICROLOG DSNT, SDLT BSAT			

Fold here

Service Ticket No.: 900741439				API Serial No.: 05-009-06676				PGM Version: WL INSITE R3.8.4 (Build 5)							
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.		@		@		ONE		ACRT		N/A		CENT		N/A	
Rmc @ Meas. Temp.		@		@				I5059_S8385							
Source Rmf		Rmc													
Rm @ BHT		@		@											
Rmf @ BHT		@		@											
Rmc @ BHT		@		@											
EQUIPMENT DATA															
GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run No.		ONE		Run No.				Run No.				Run No.			
Serial No.		11048627		Serial No.				Serial No.				Serial No.			
Model No.		GTET		Model No.				Model No.				Model No.			
Diameter		3.625"		No. of Cent.				Diameter				Diameter			
Detector Model No.		T-102		Spacing				Log Type				Log Type			
Type		SCINT						Source Type				Source Type			
Length		8'		LSA [Y/N]				Serial No.				Serial No.			
Distance to Source		10'		FWDA [Y/N]				Strength				Strength			
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	4792	1386	REC	0	150										
DIRECTIONAL INFORMATION															
Maximum Deviation								@	KOP						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING															
CHLORIDES REPORTED AT 800 MG/L															
LCM REPORTED AT 4 LB/BBL															
GTET-DSNT-SDLT-BSAT-ACRT RUN IN COMBINATION															
TODAY'S CREW: M. GRAHAM & R. DODD															
THANK OU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS. 620-624-8123															
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															



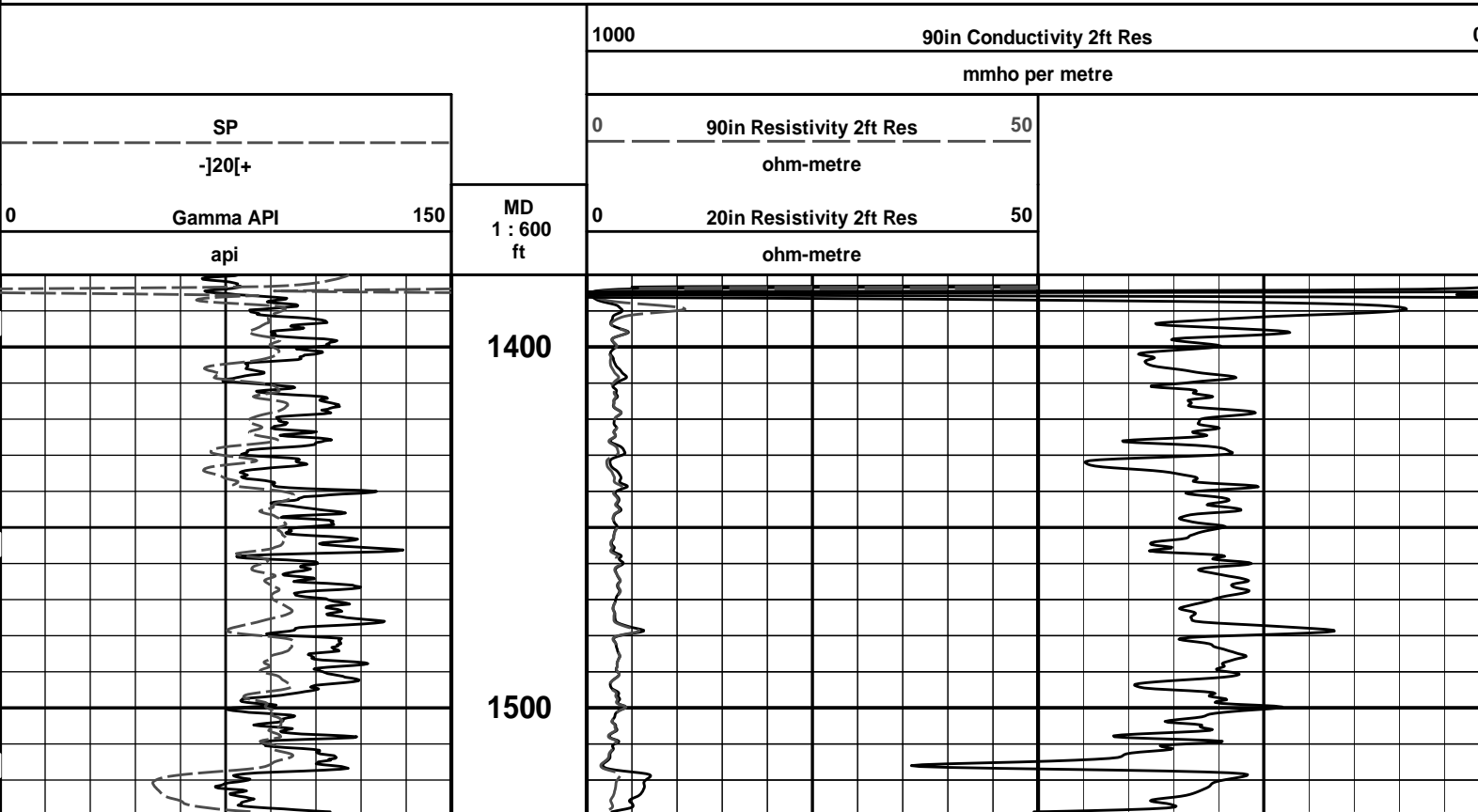
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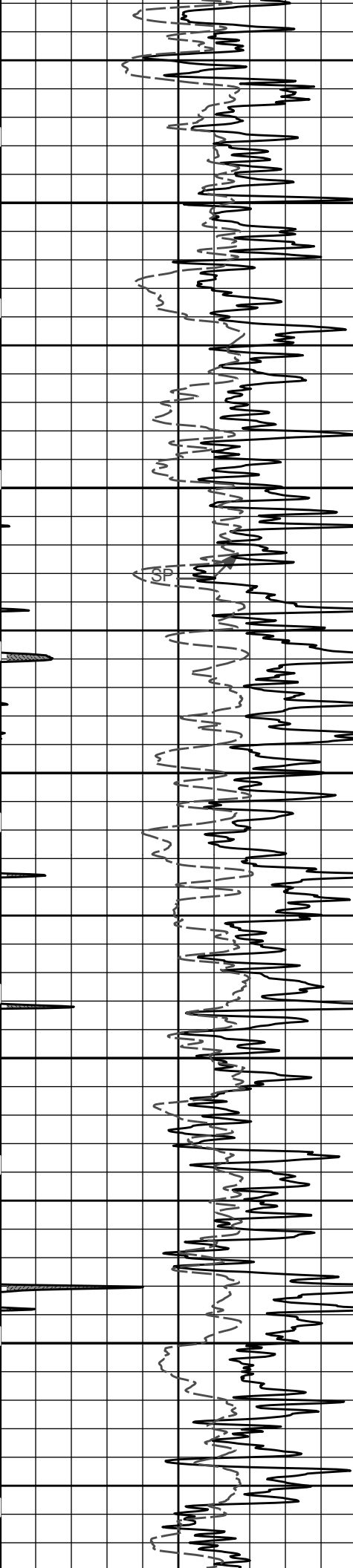
Plot Range: 1380 ft to 4794.75 ft

Data: HOLT_1\Well Based\CASING\

Plot File: \\LOCAL-\\HOLT_1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNACRT\ACRT_2_lib

2 INCH MAIN LOG





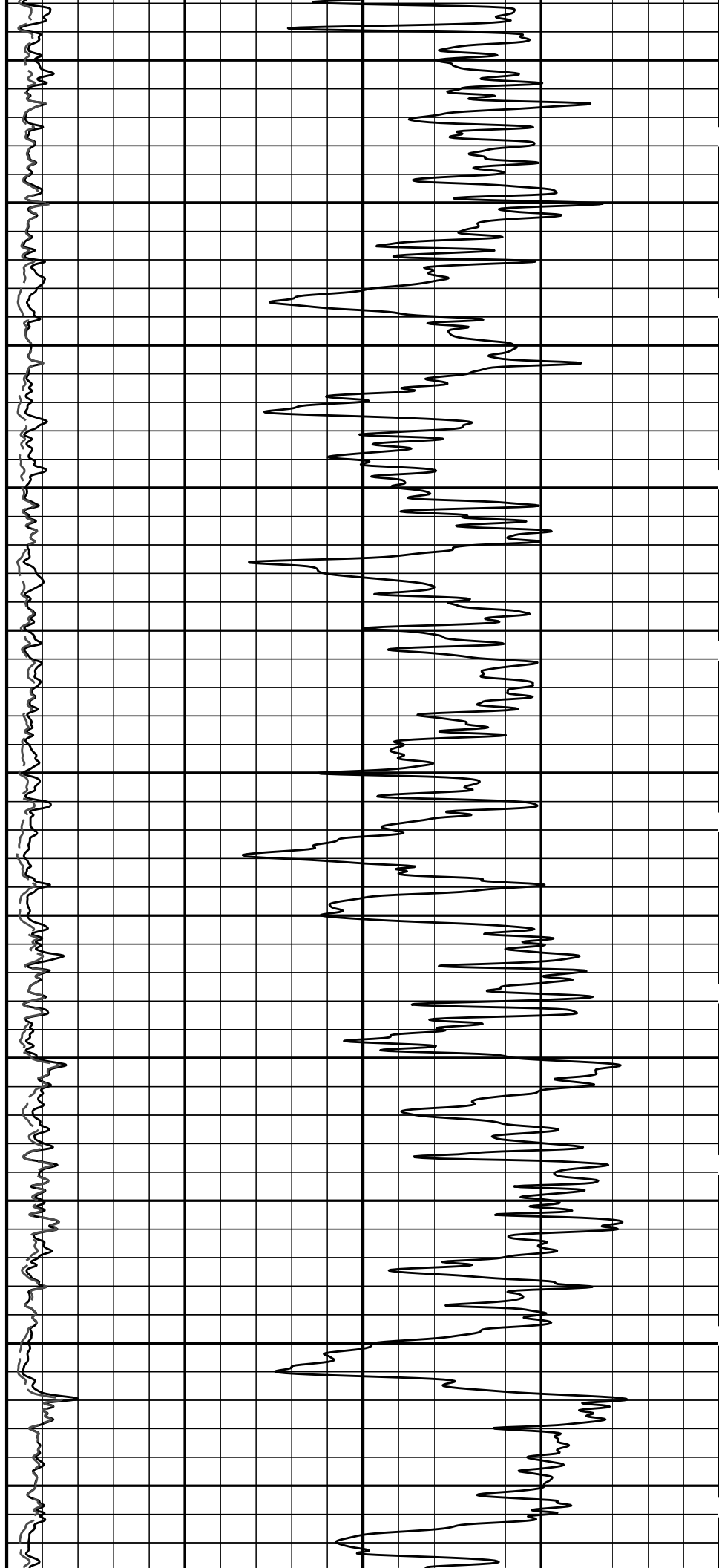
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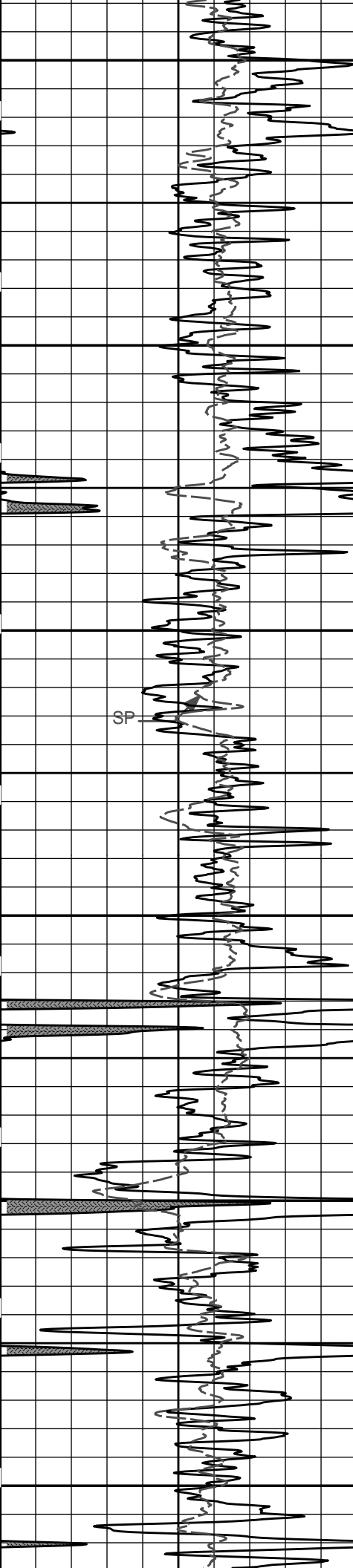
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1800

1900

2000





2100

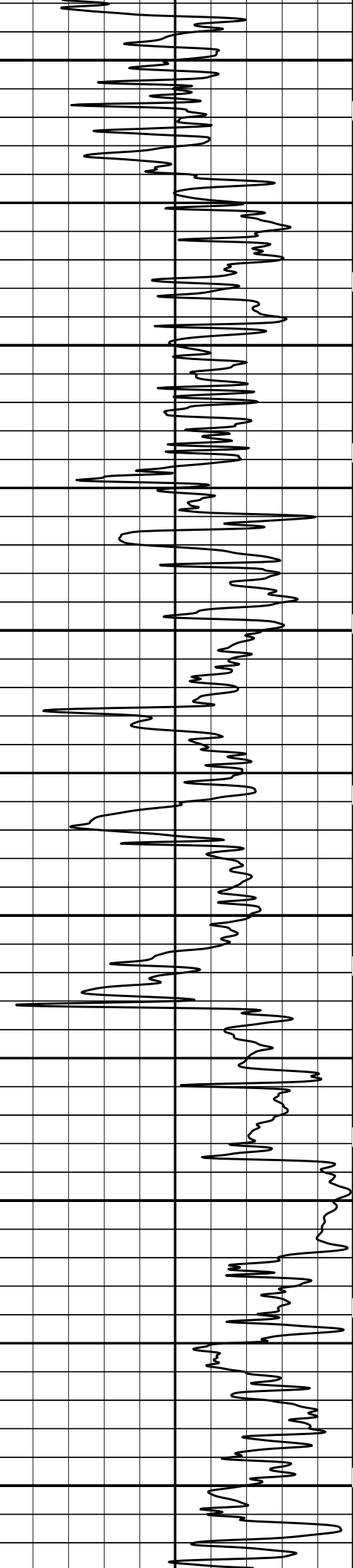
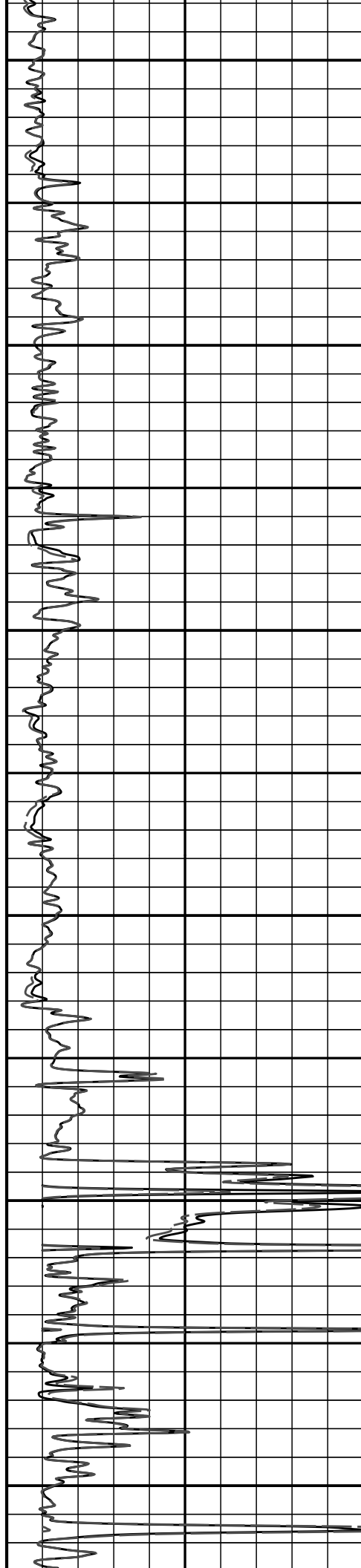
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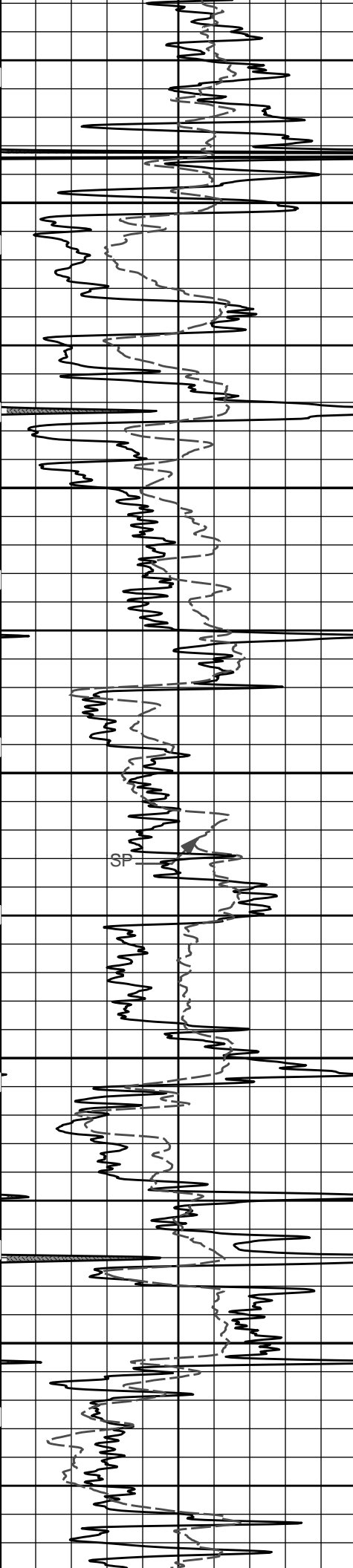
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2400

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2600





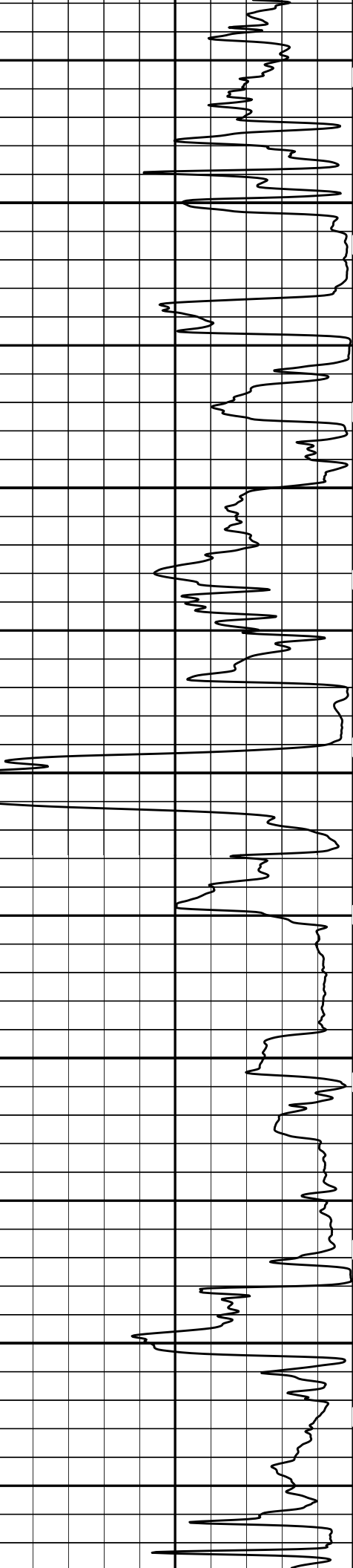
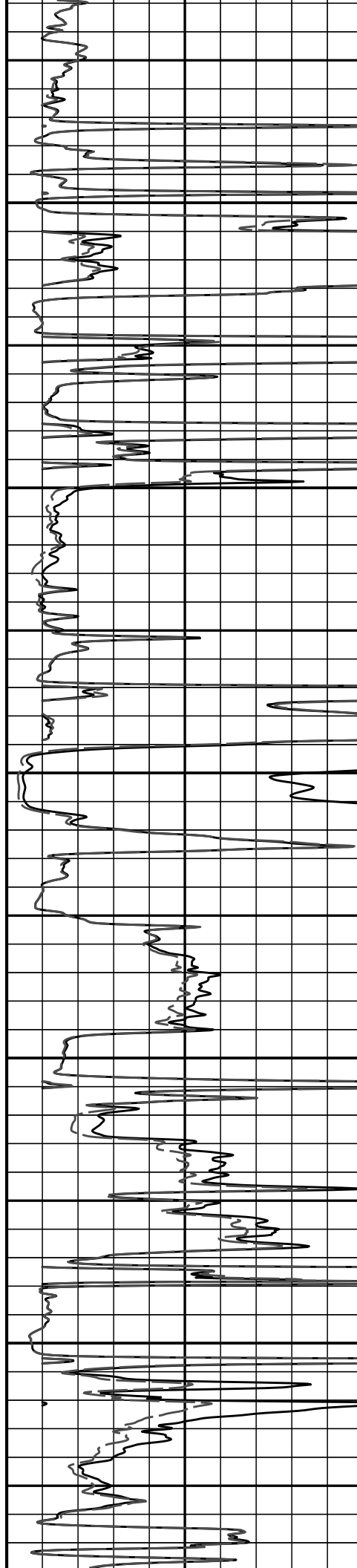
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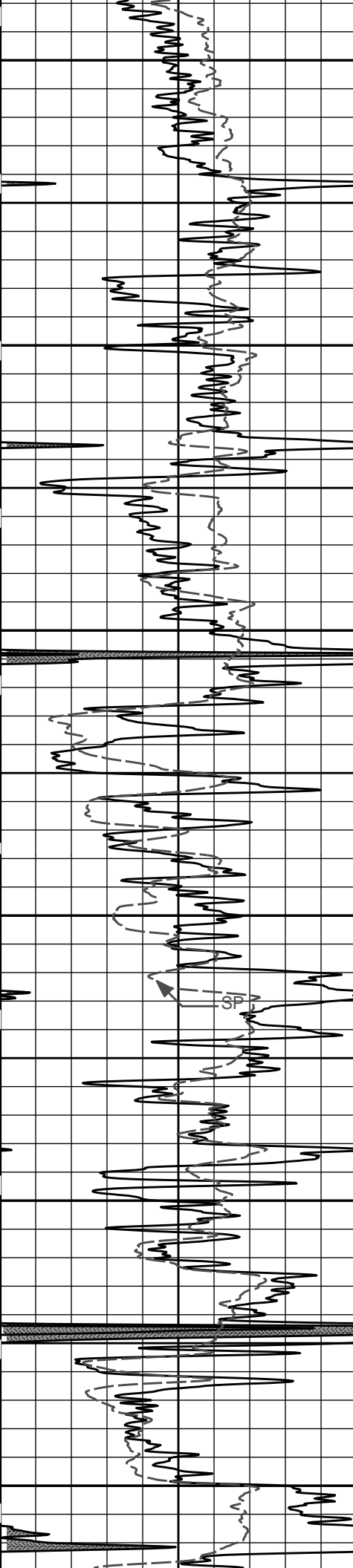
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3000

3100





3200

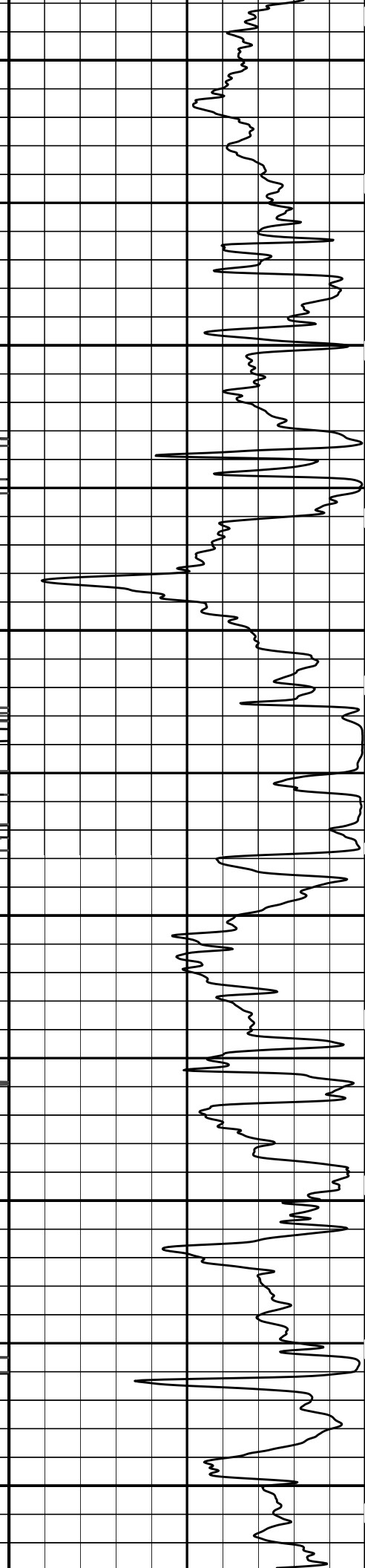
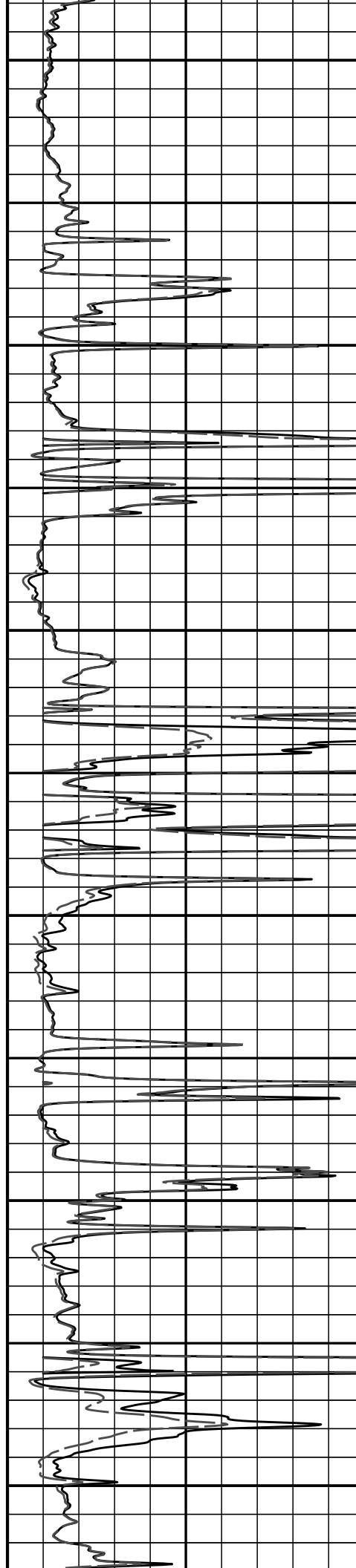
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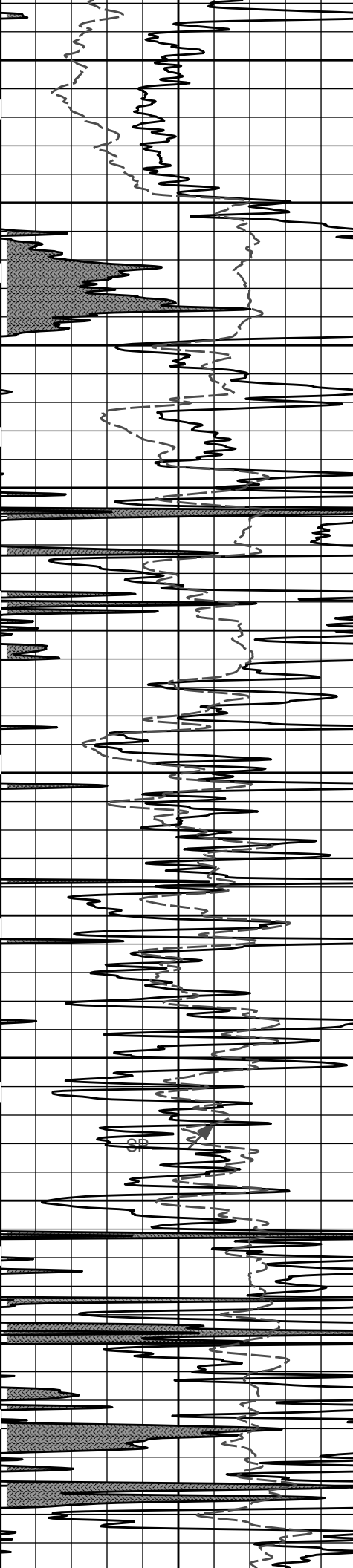
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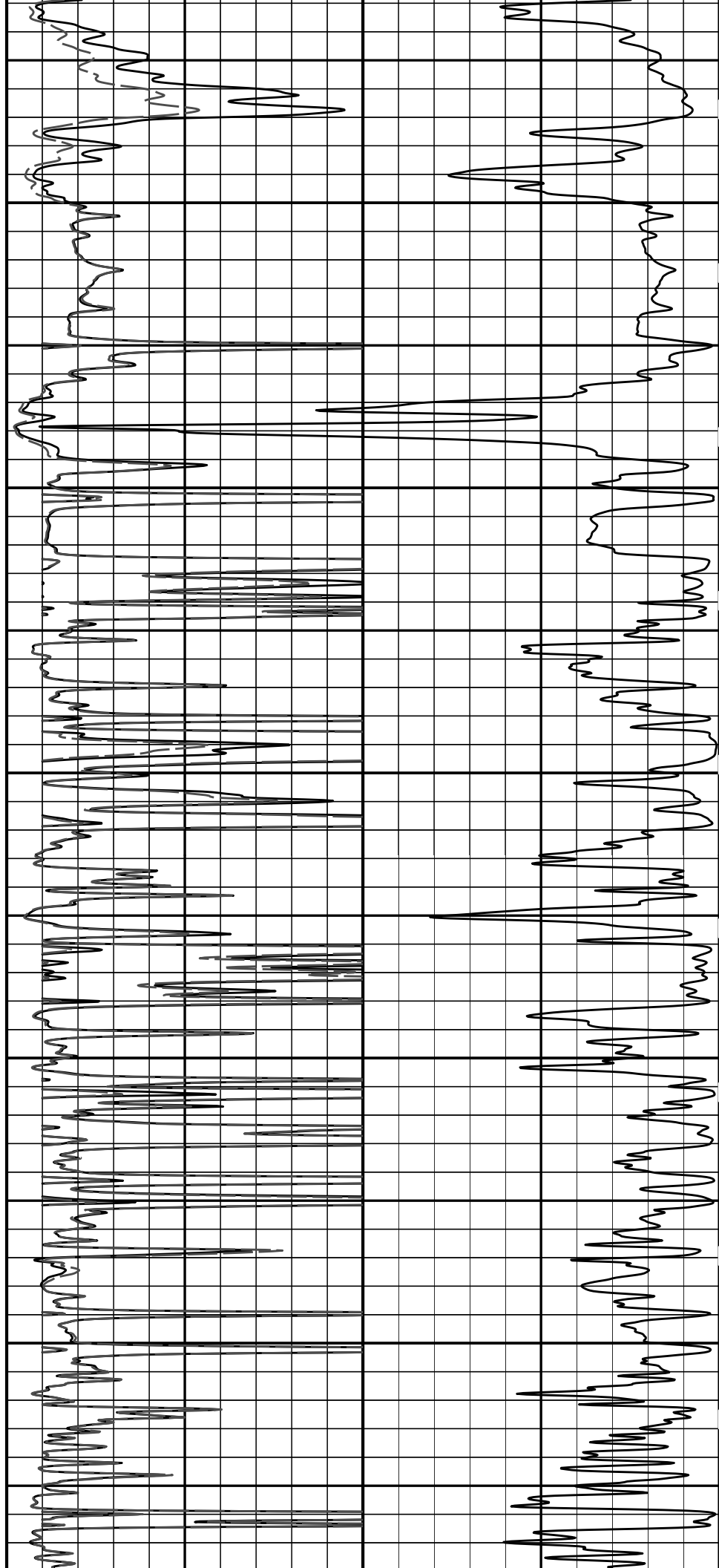
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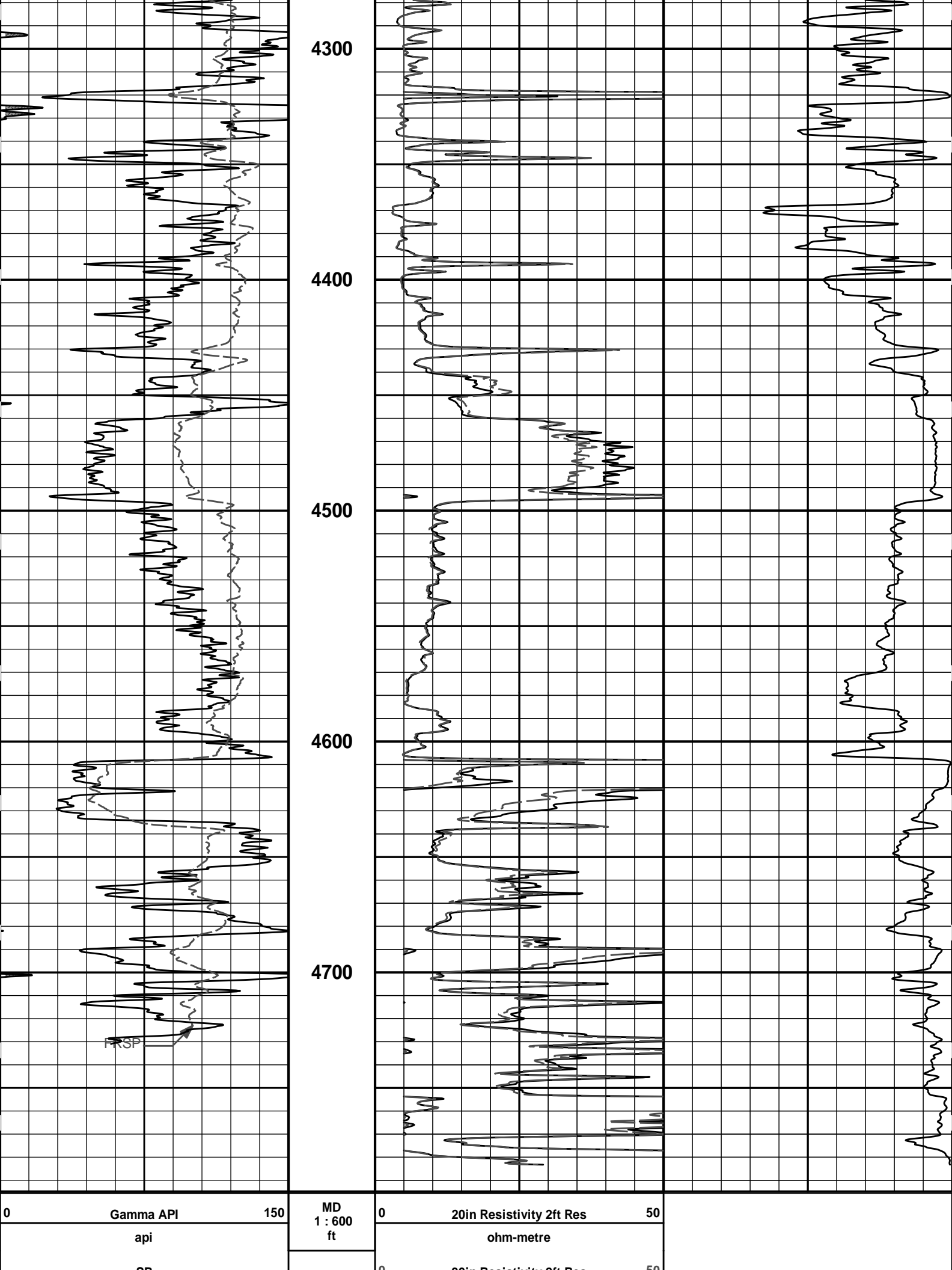
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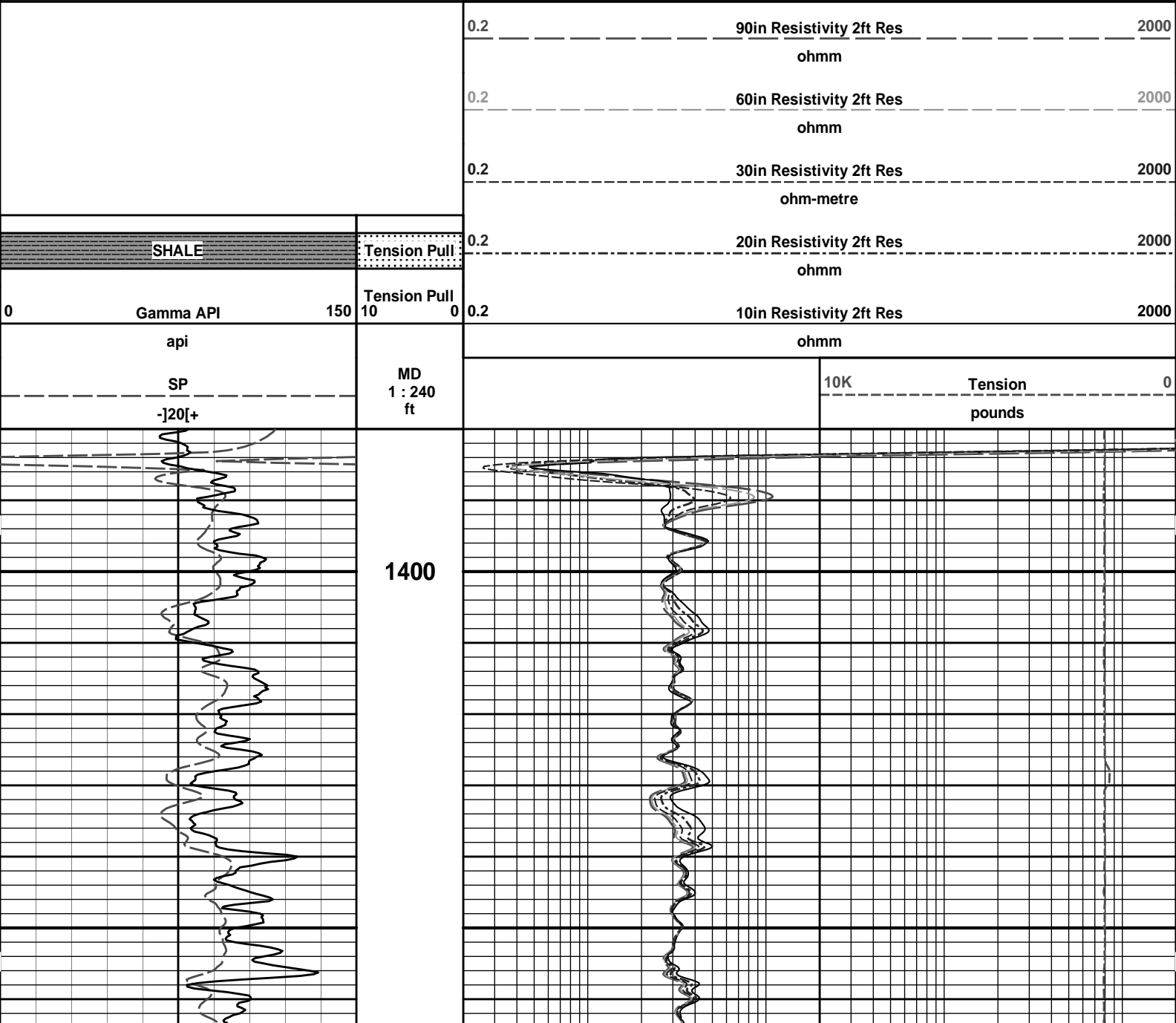
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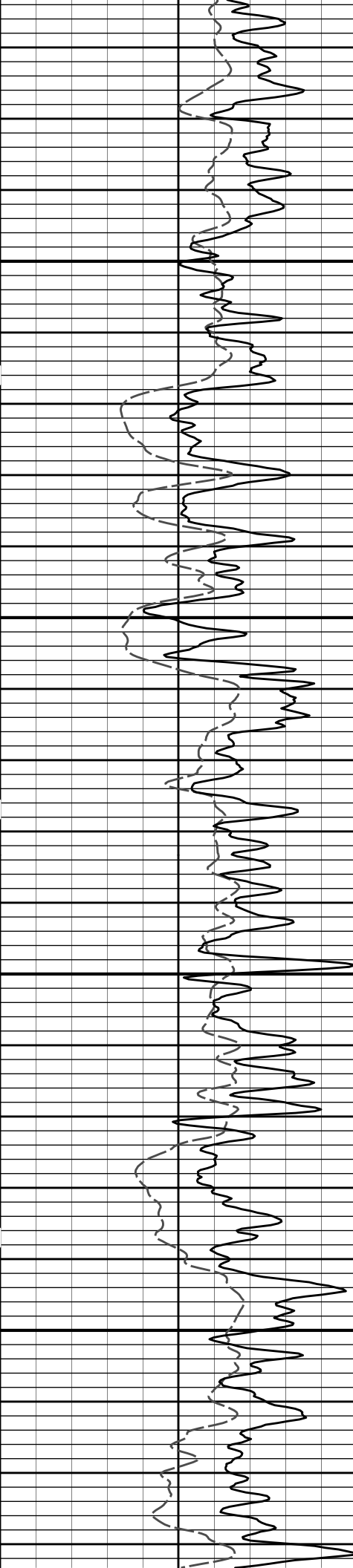
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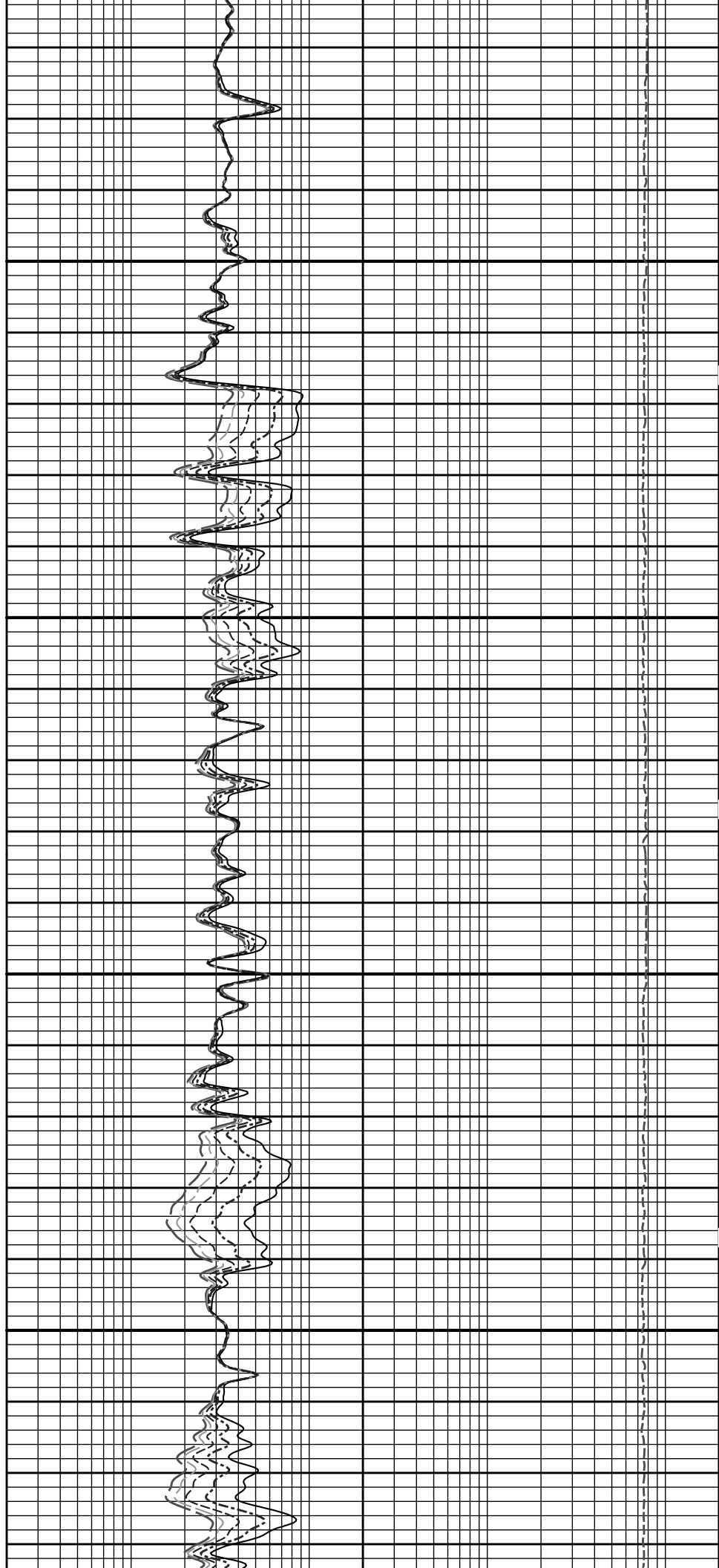


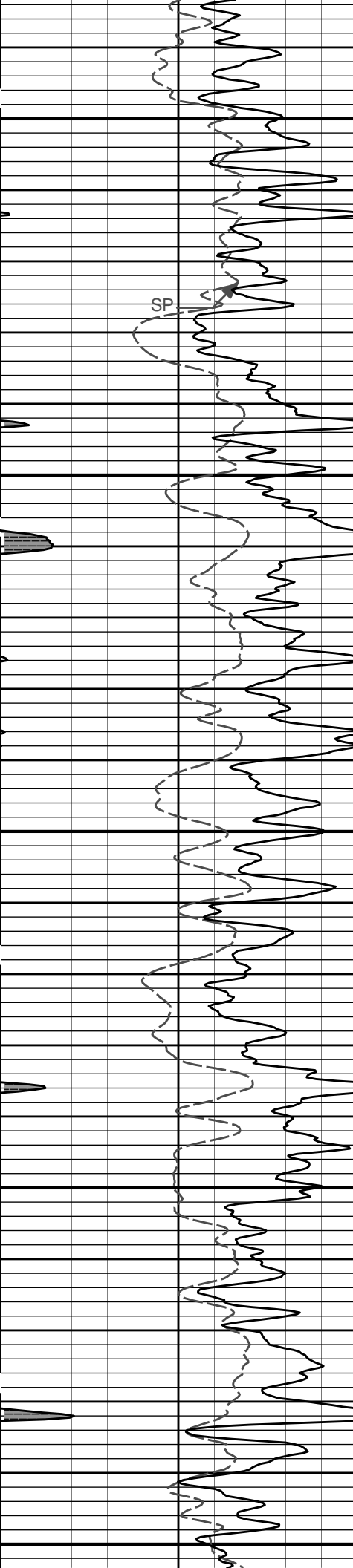




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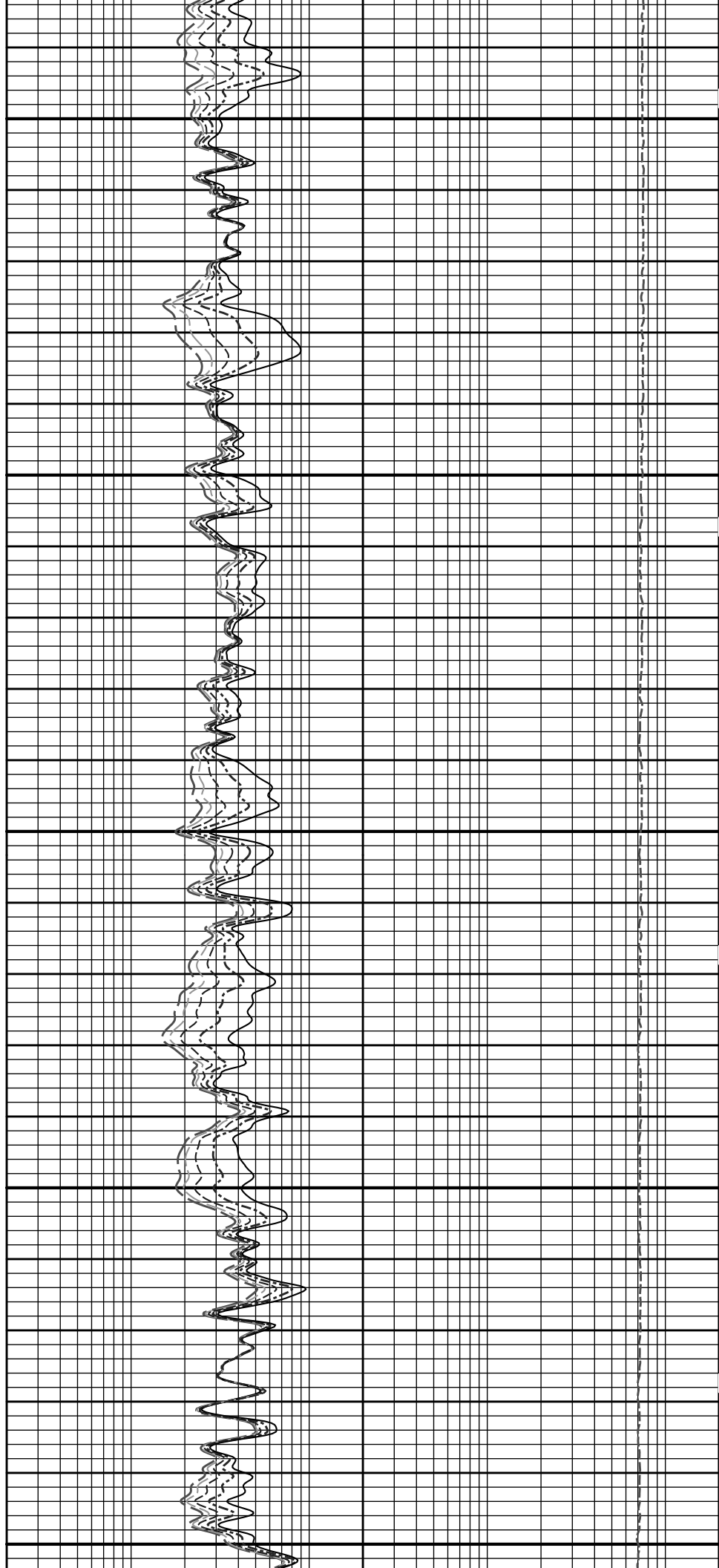


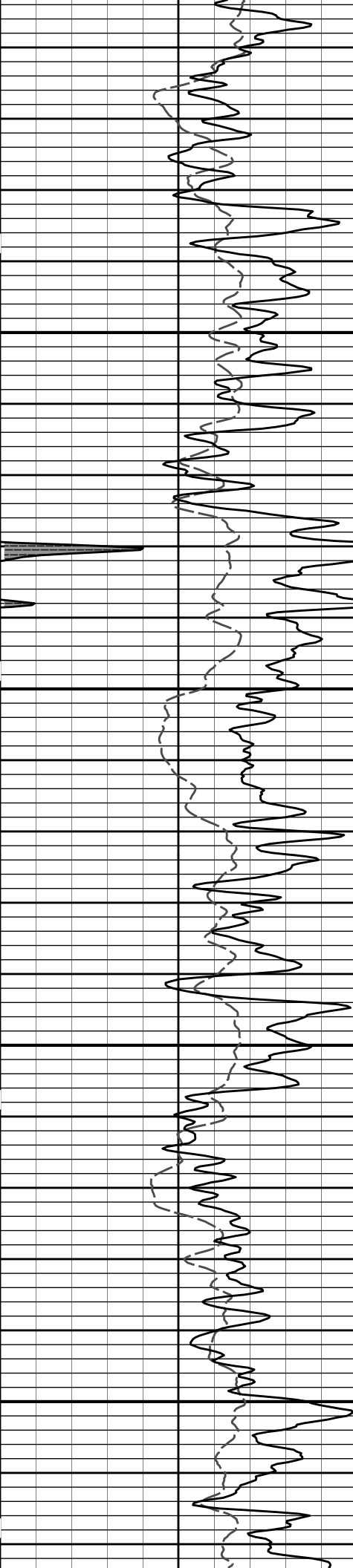


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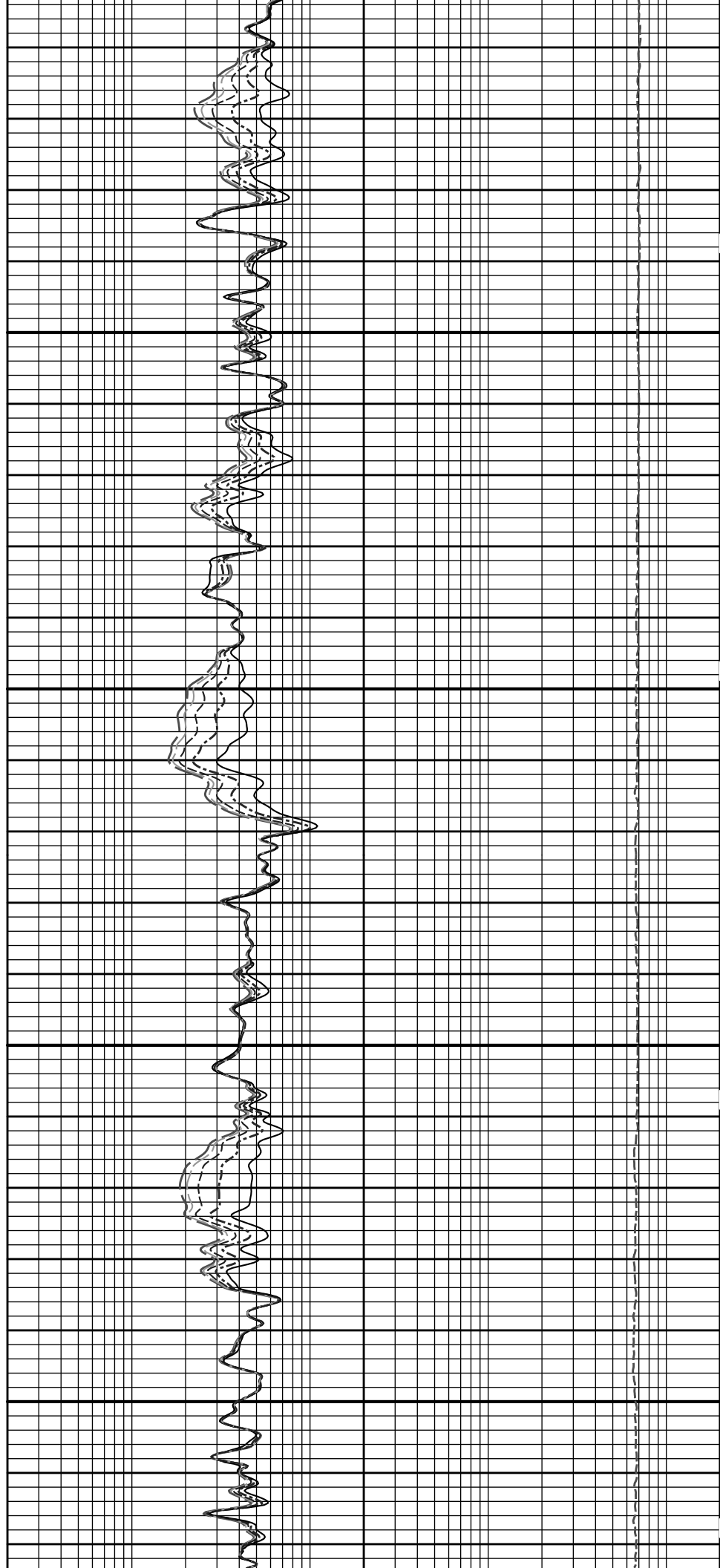
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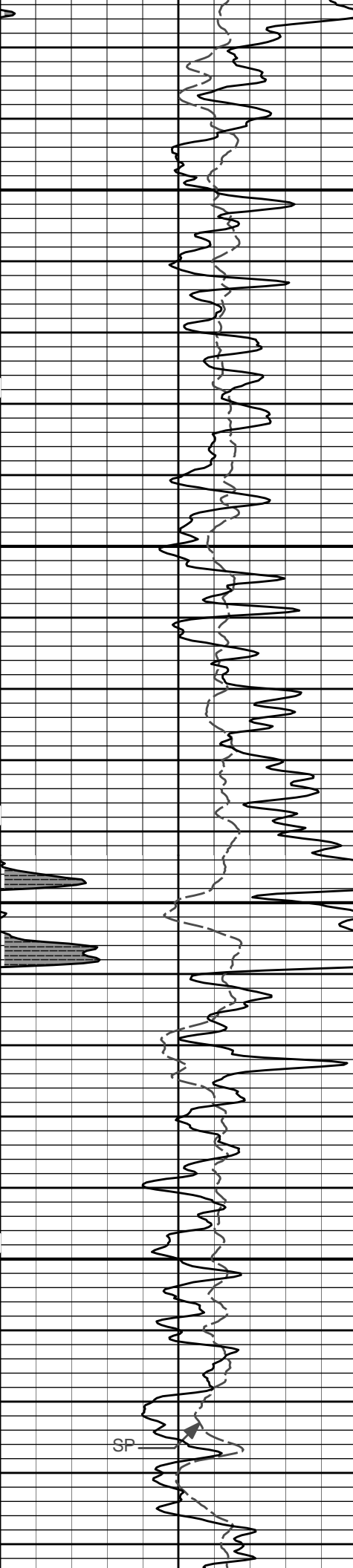




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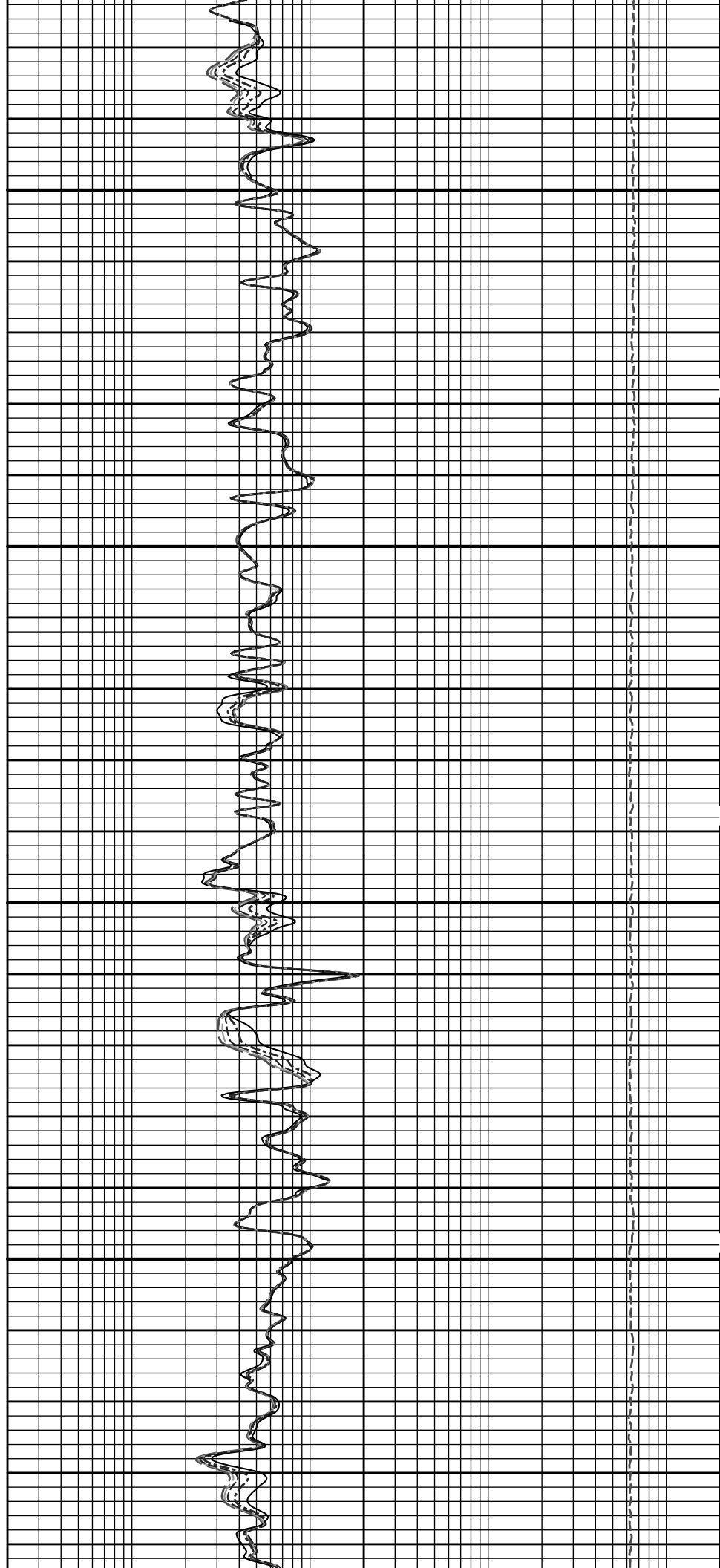
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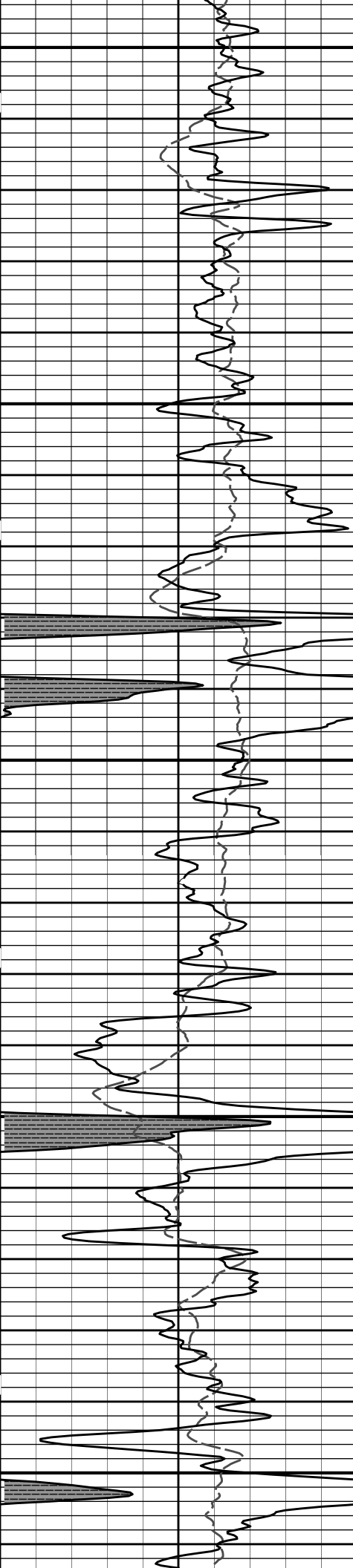




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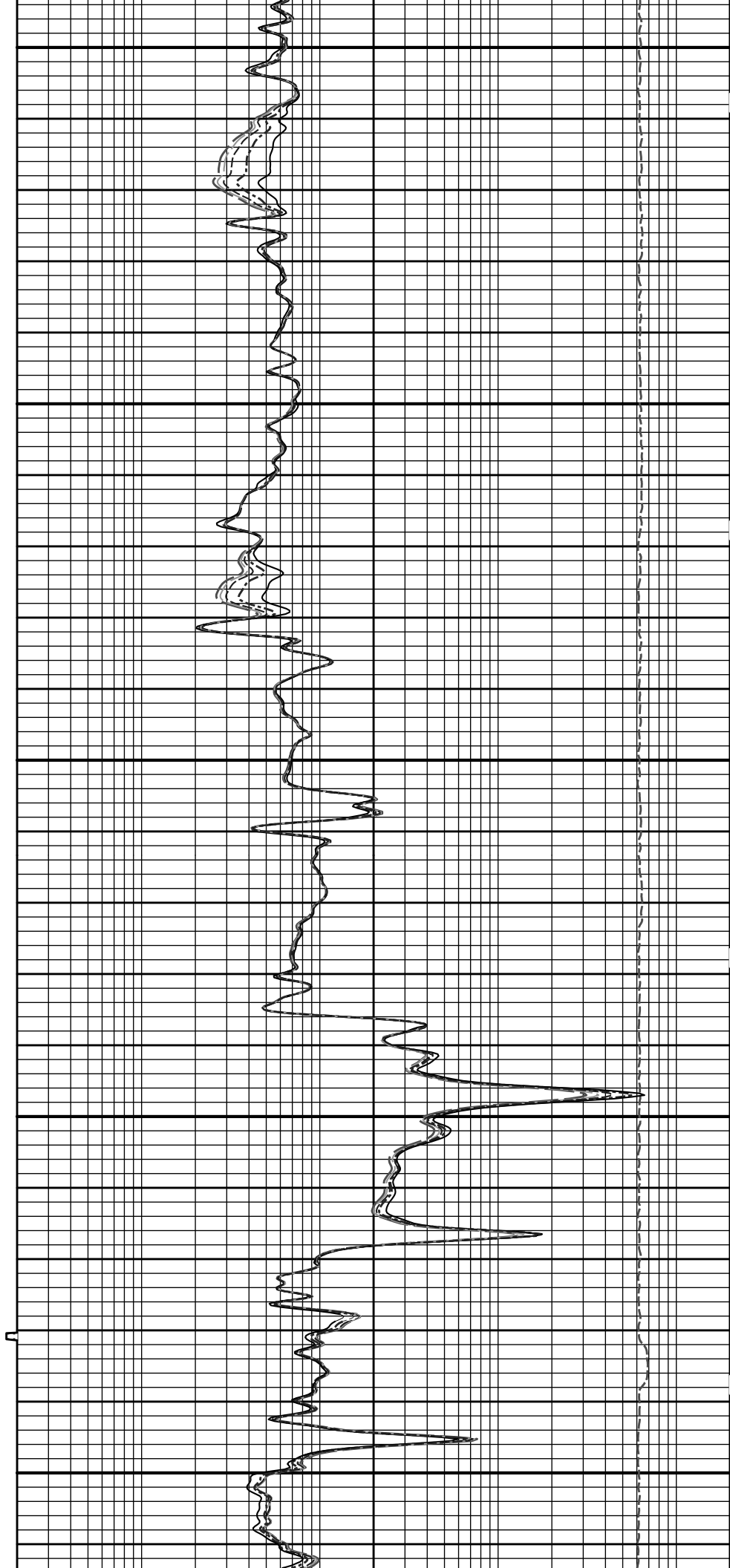
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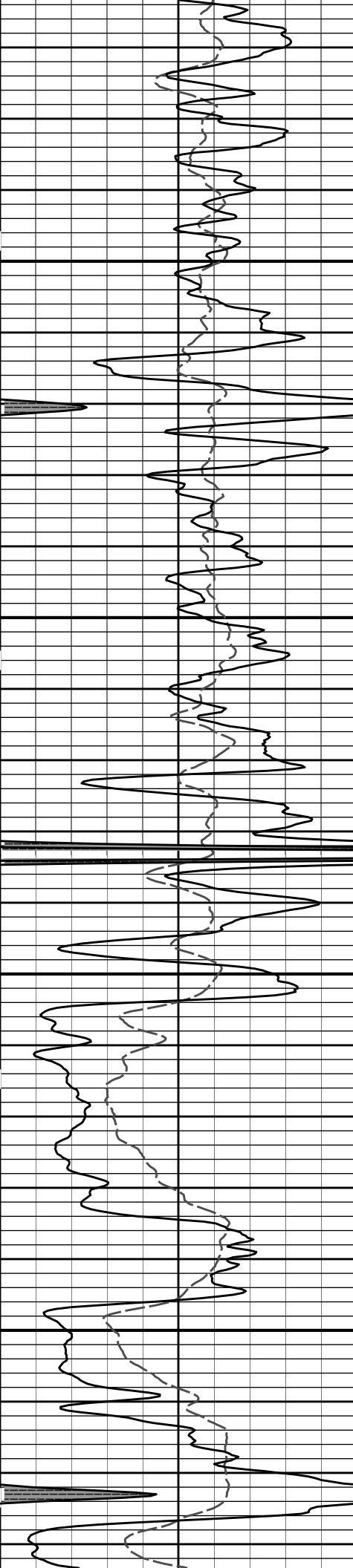




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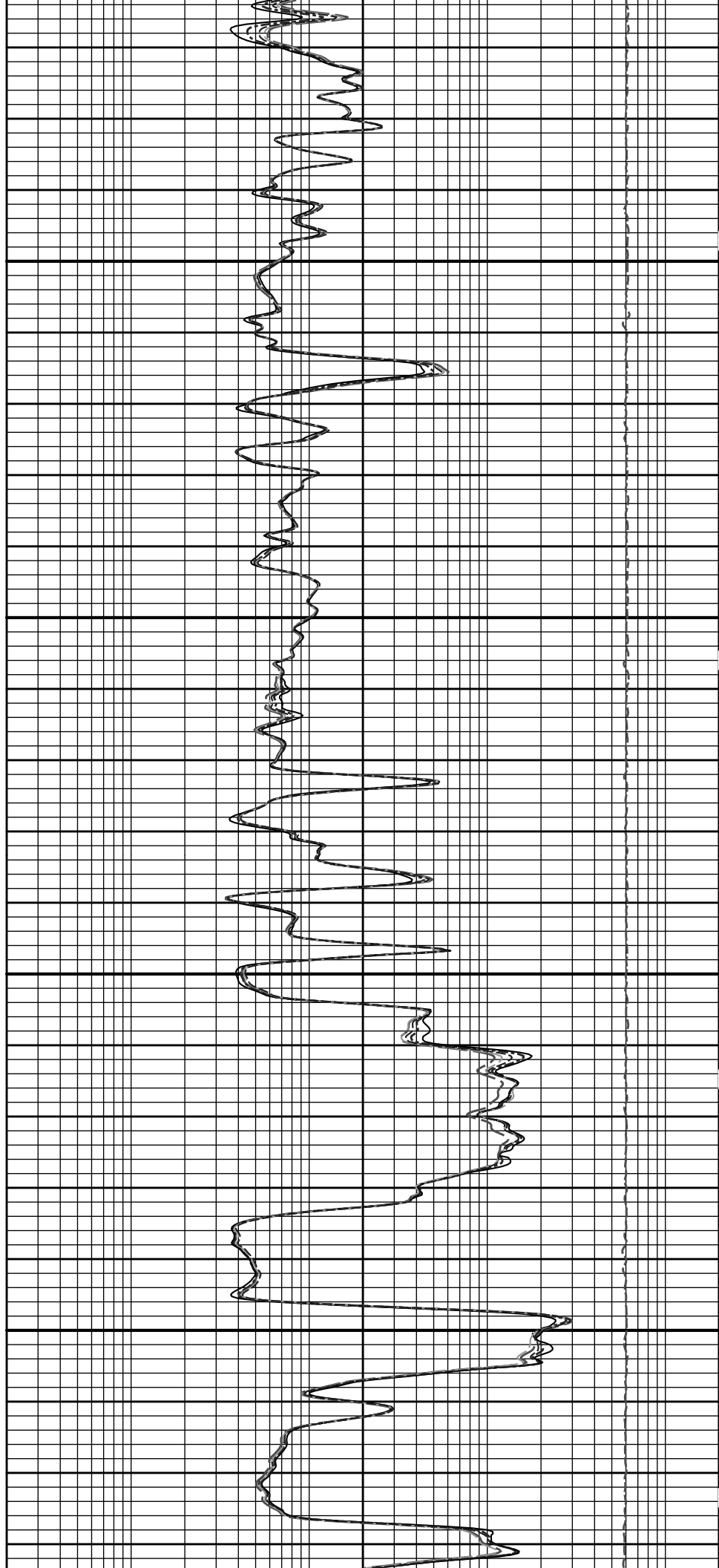
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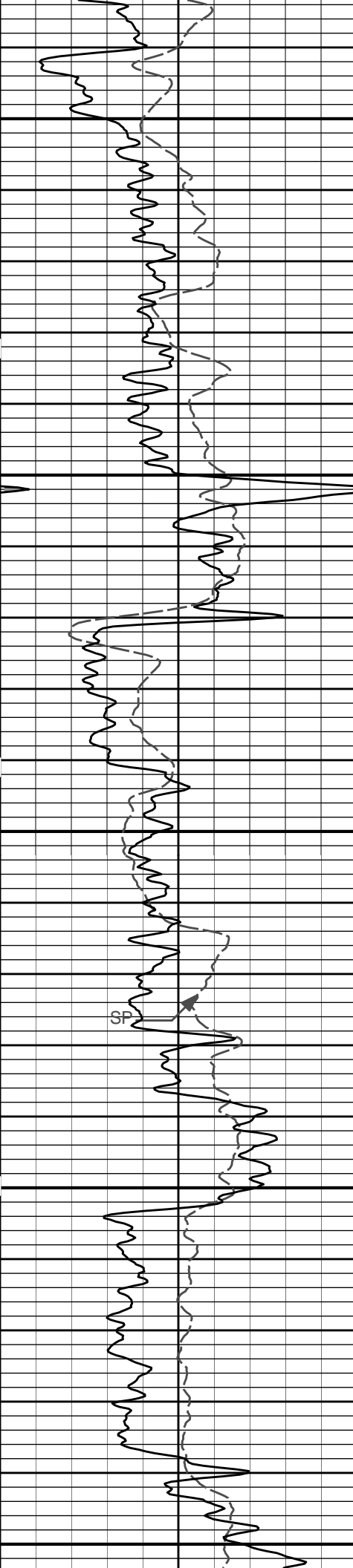




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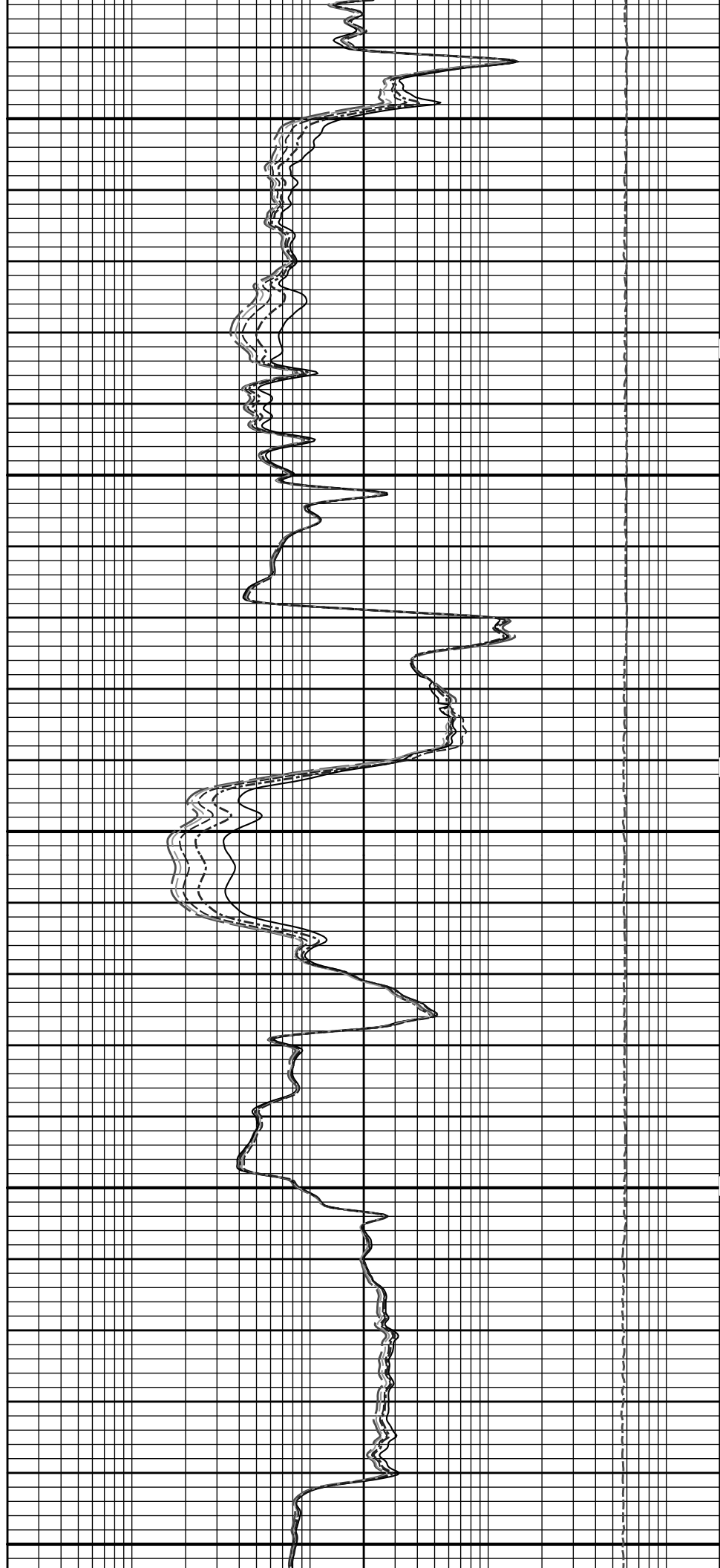


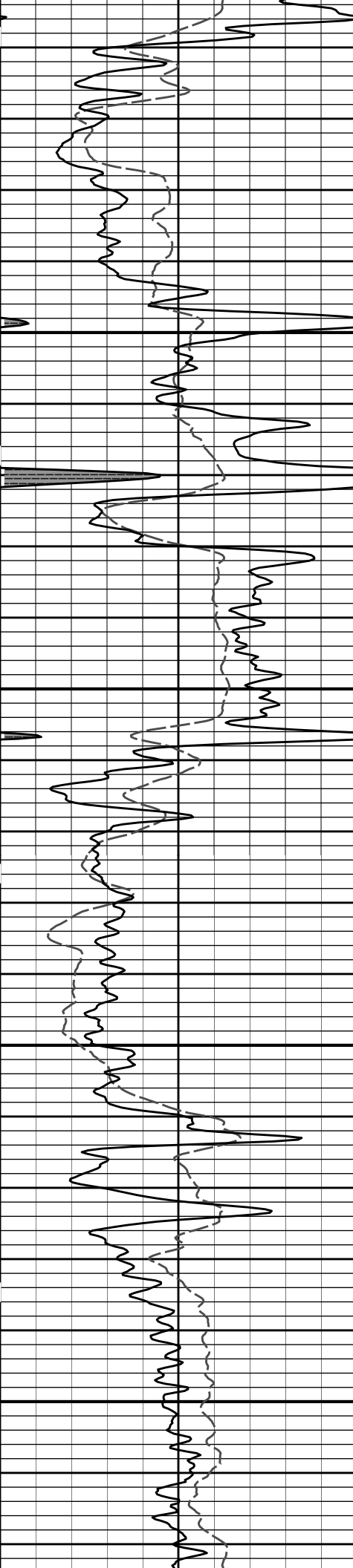


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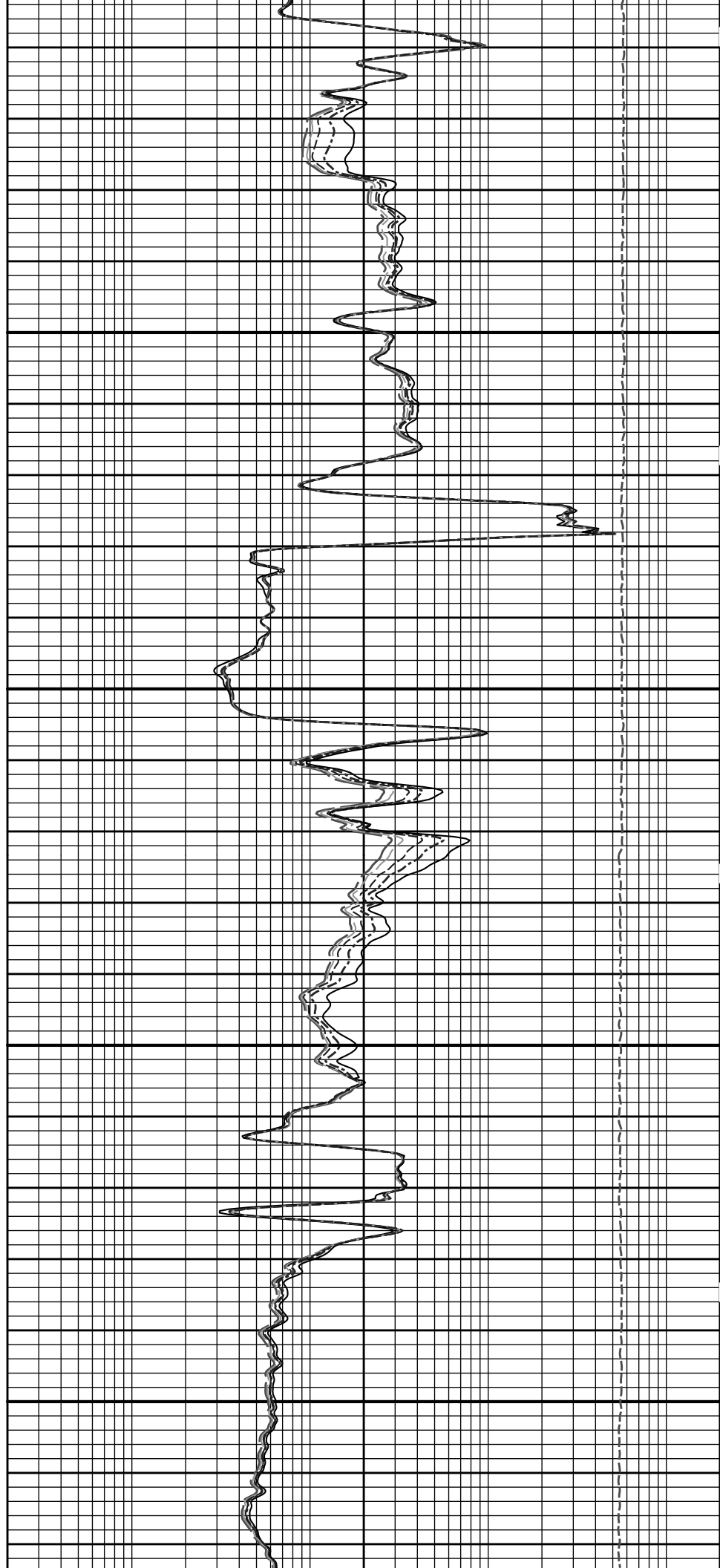
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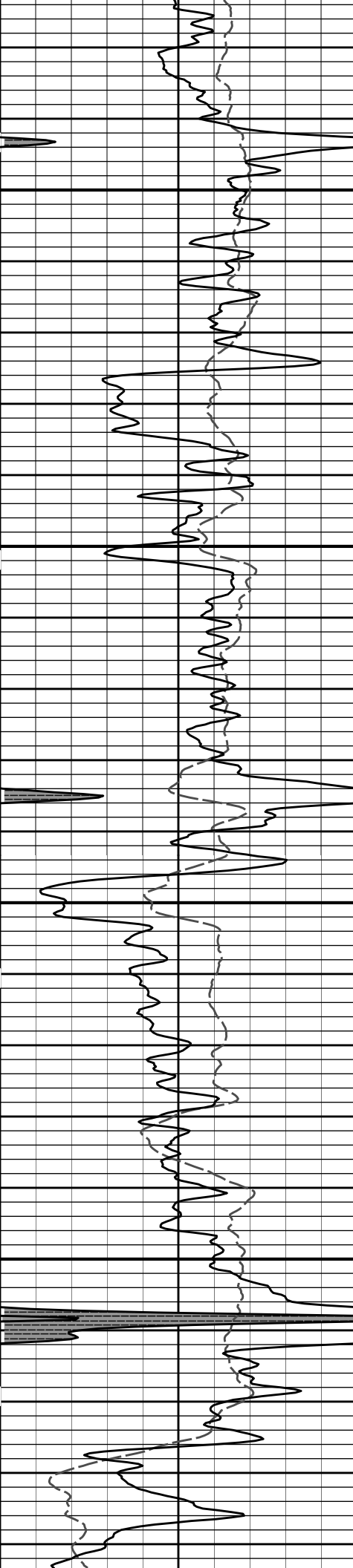




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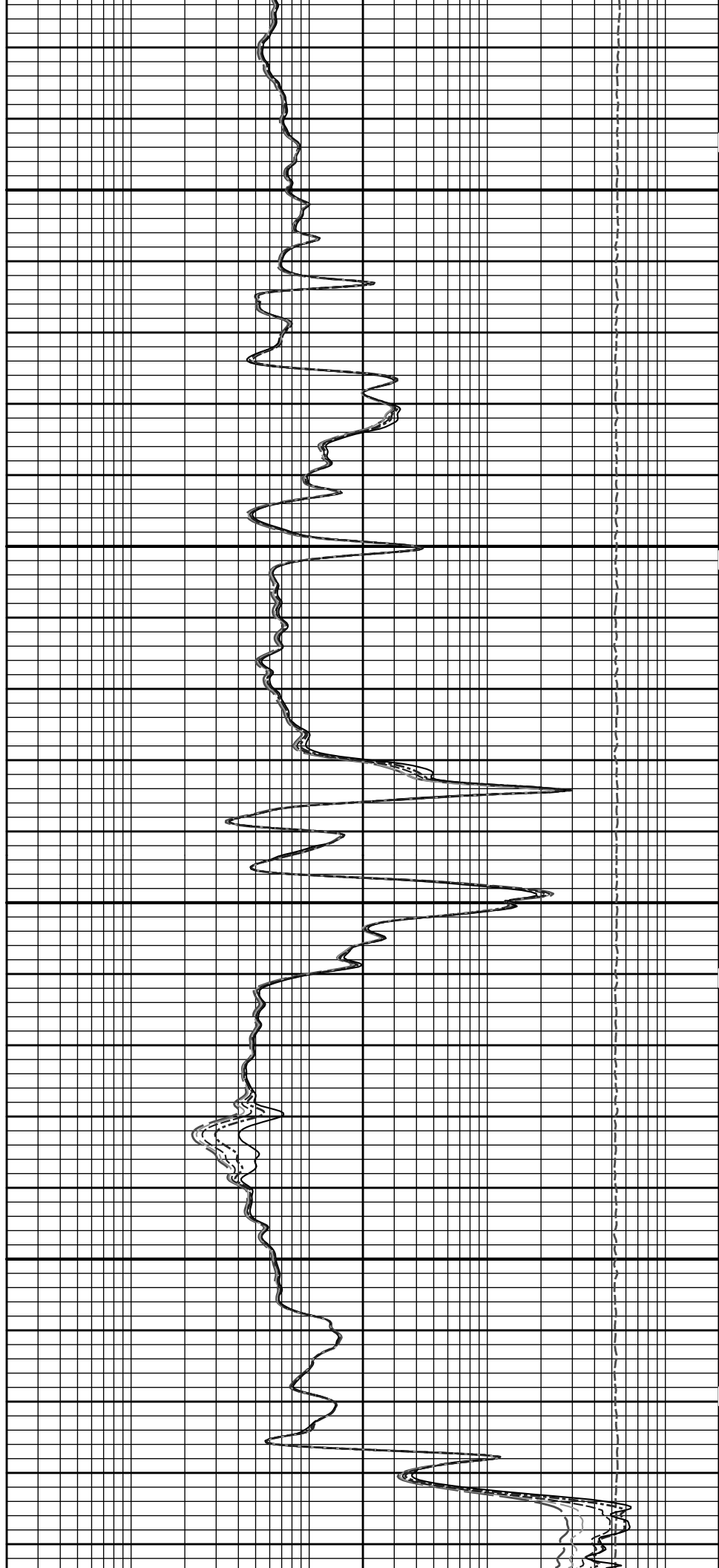
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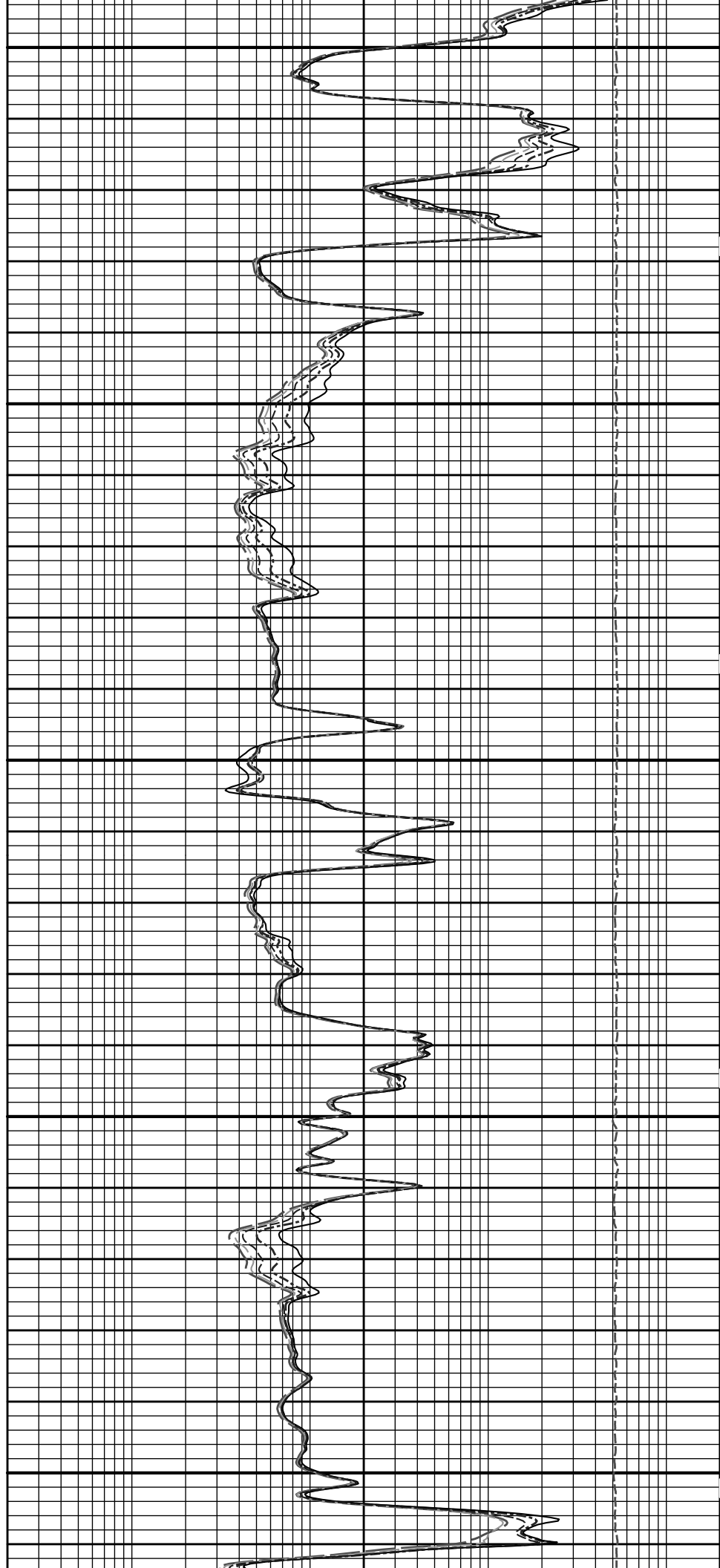
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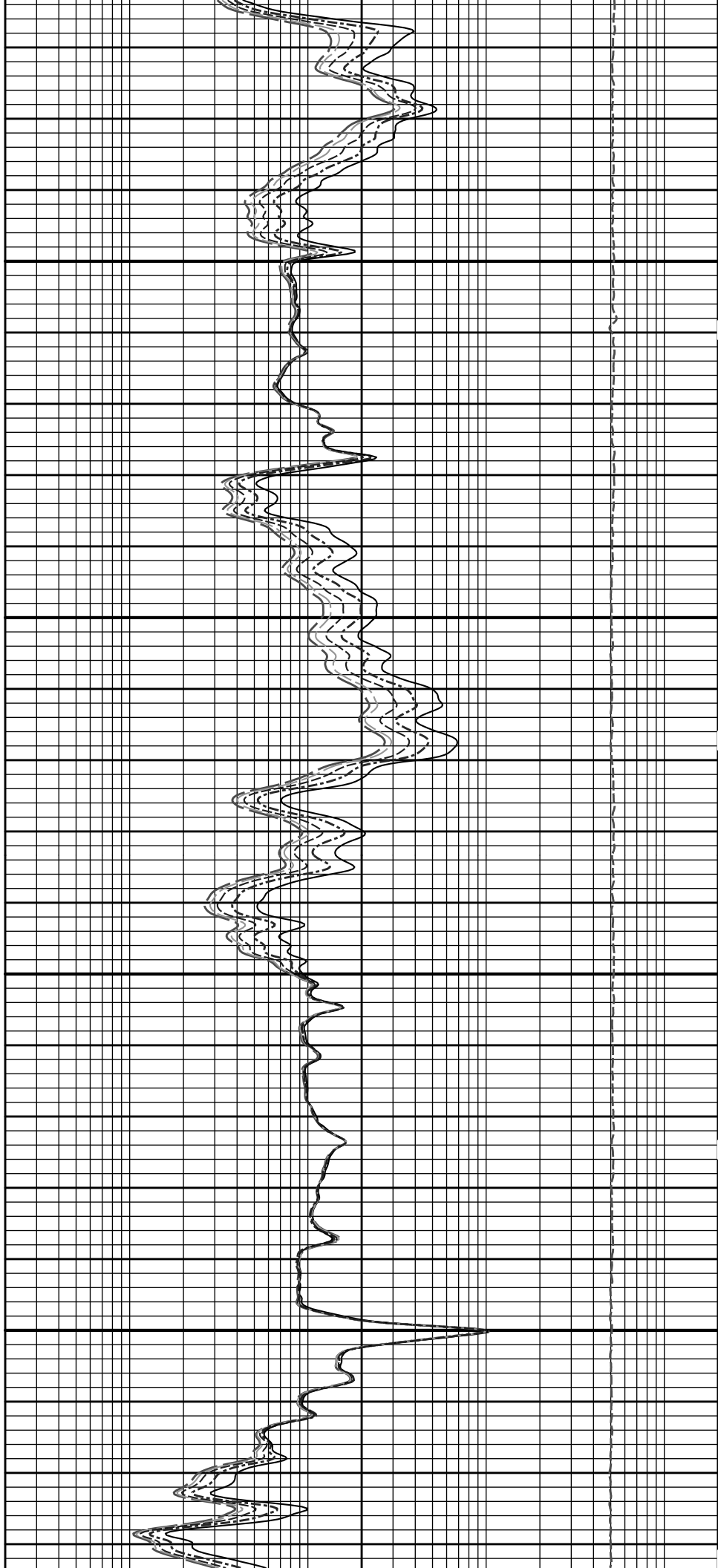
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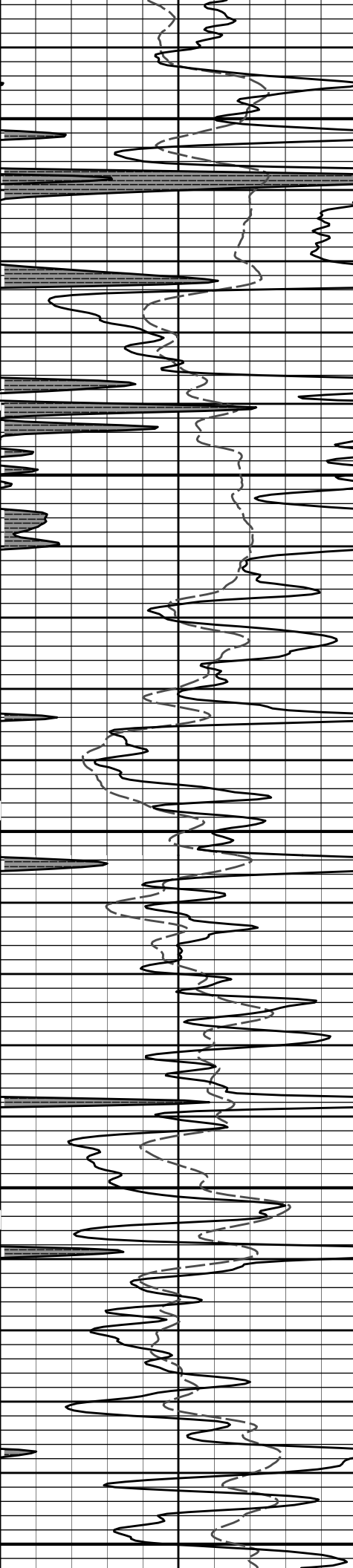




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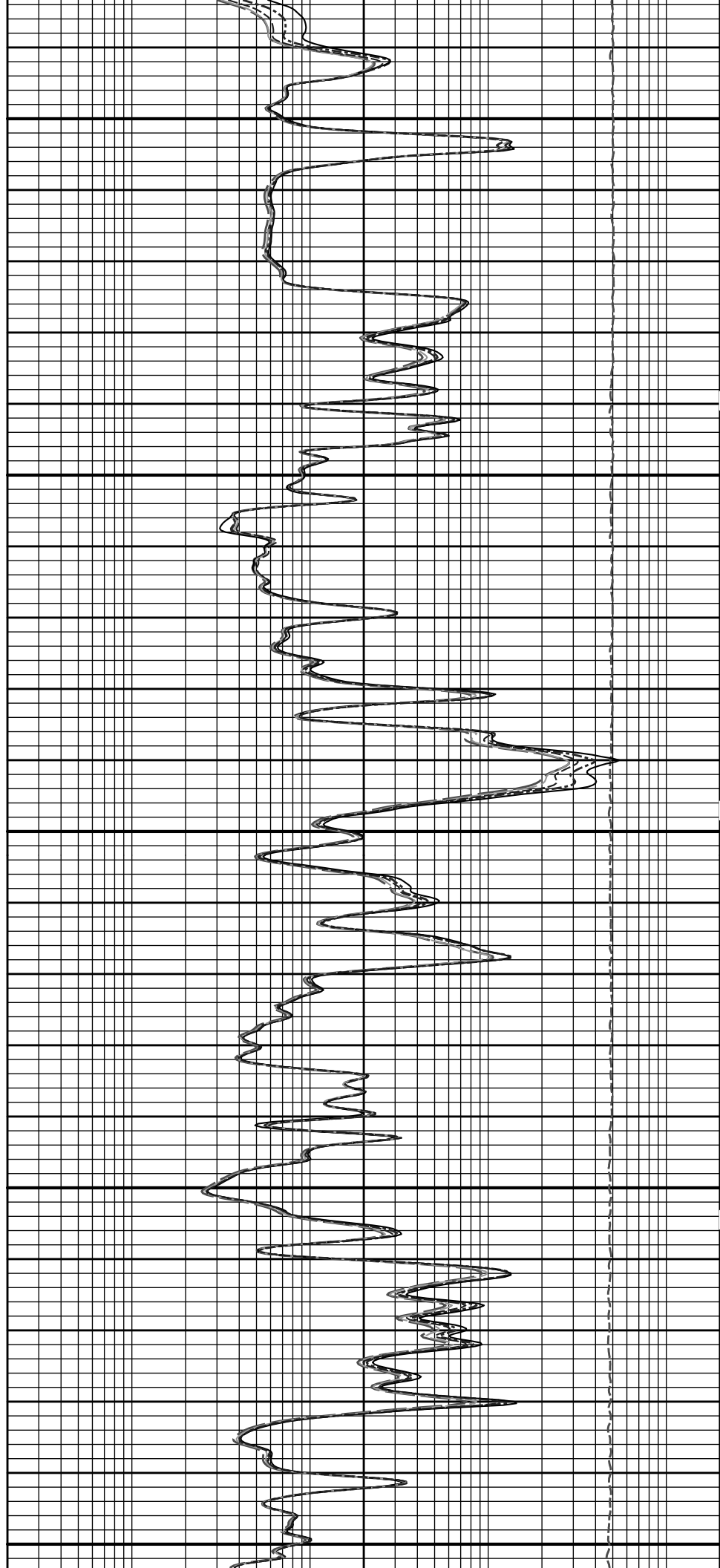


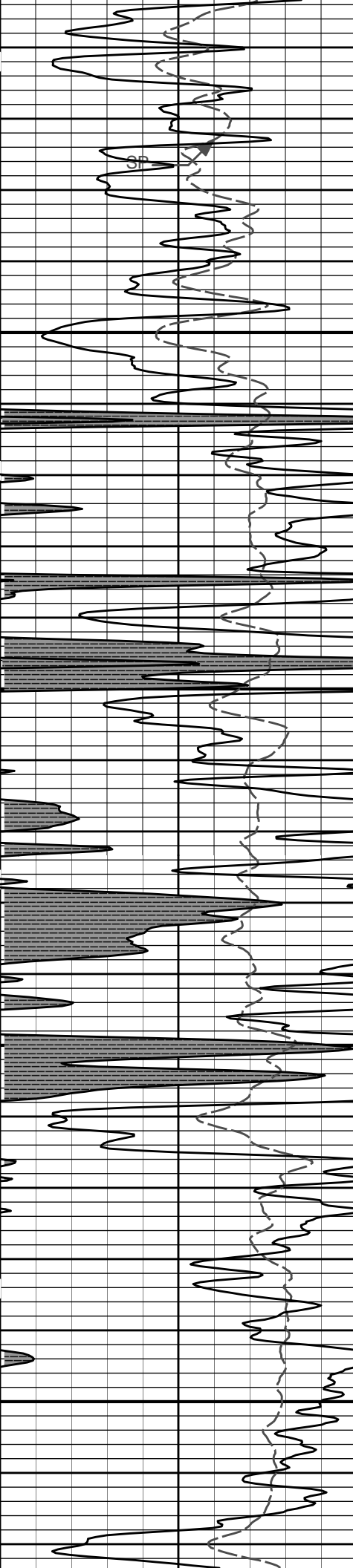


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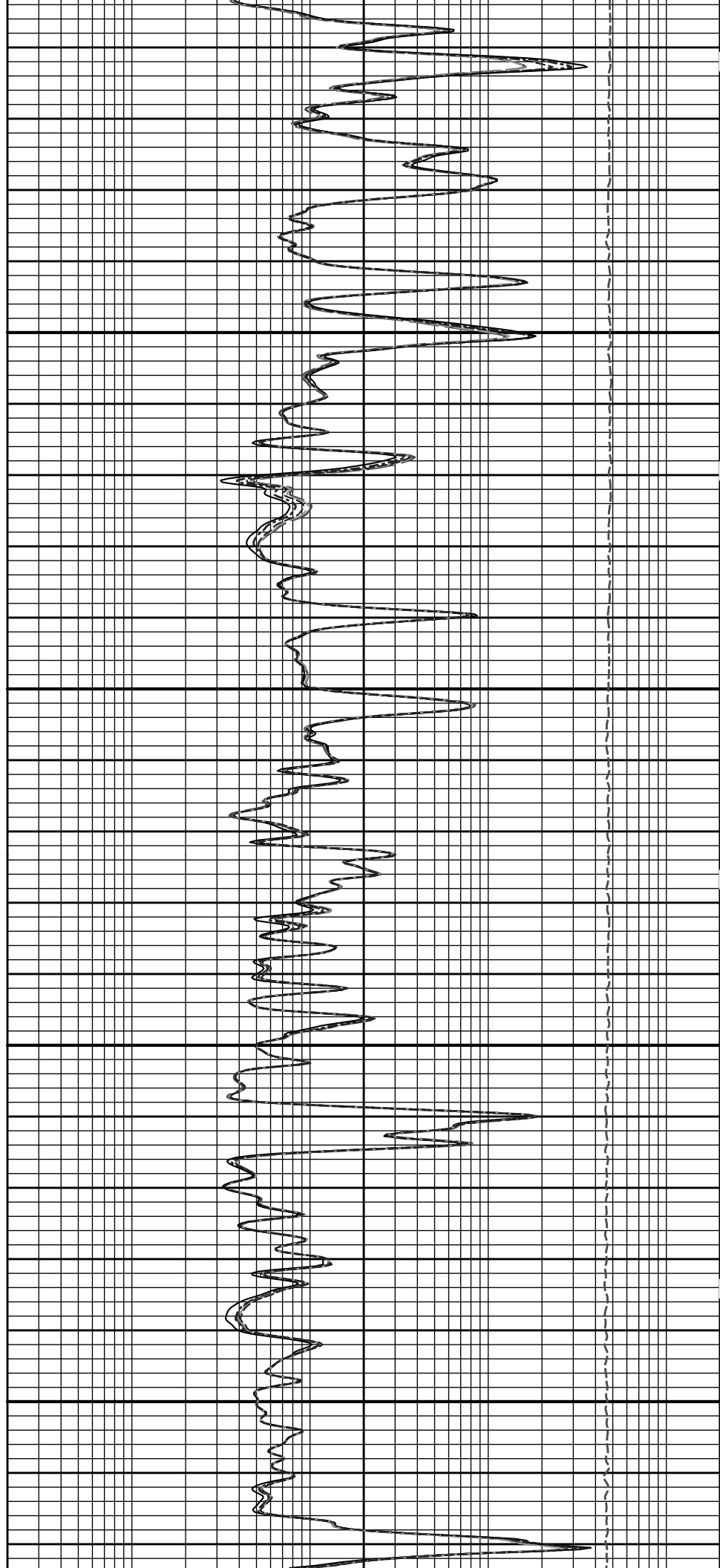
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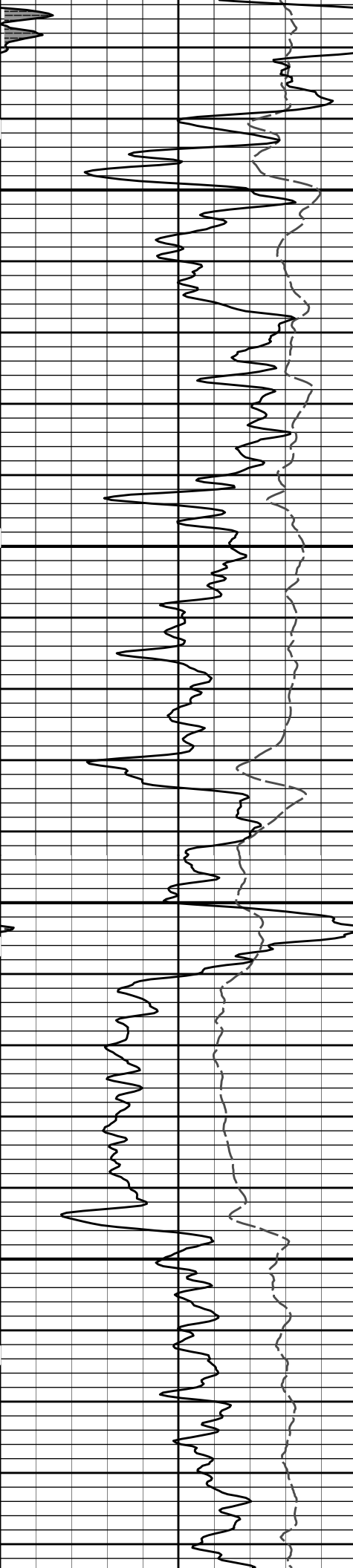




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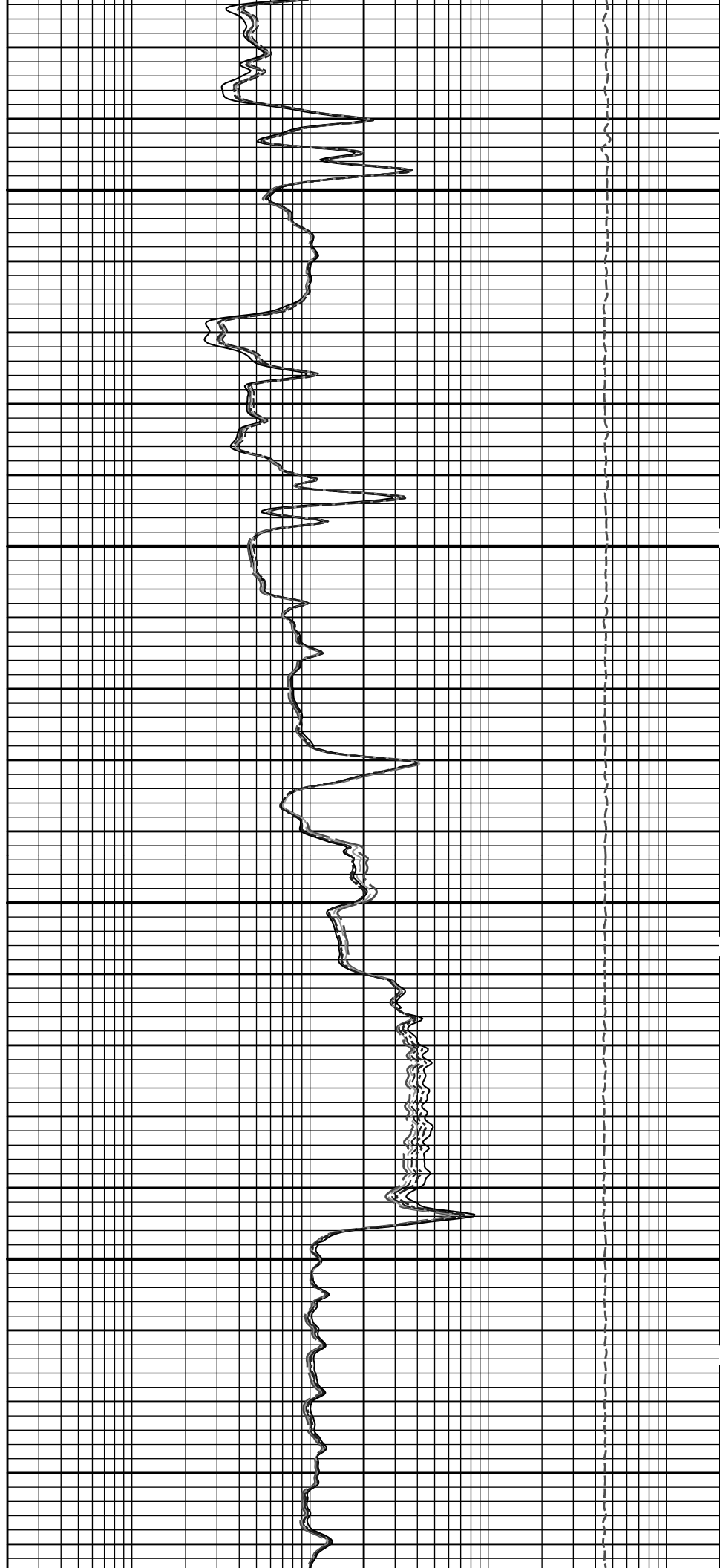
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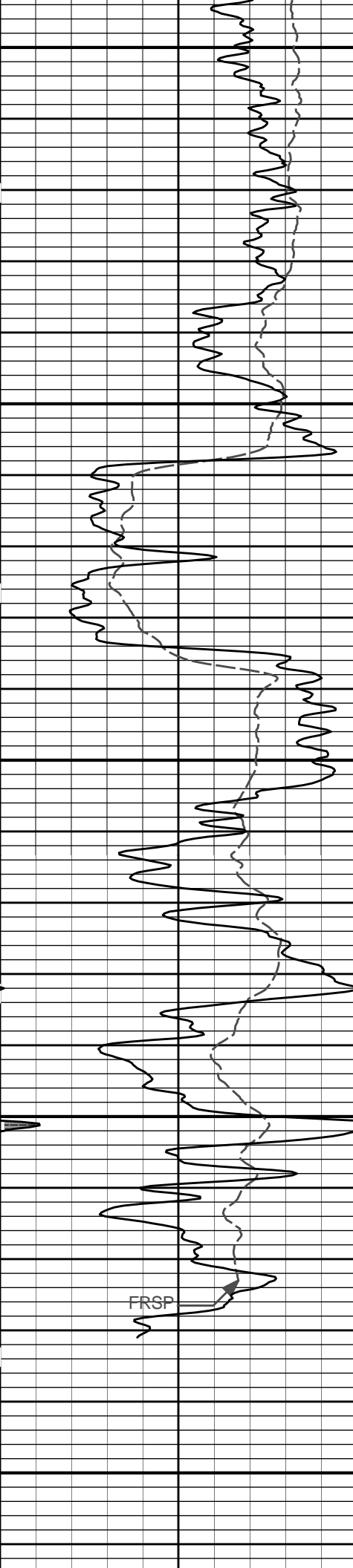




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4500

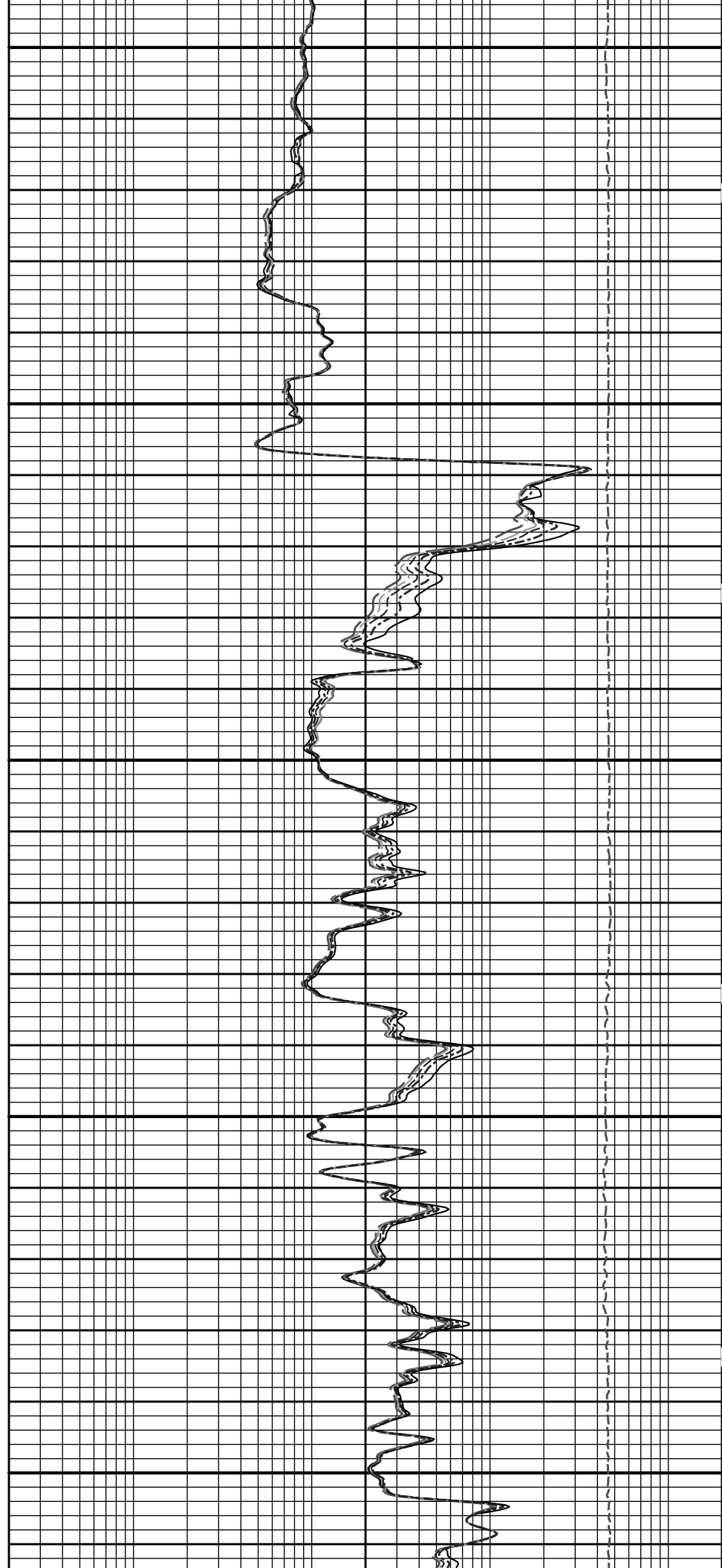


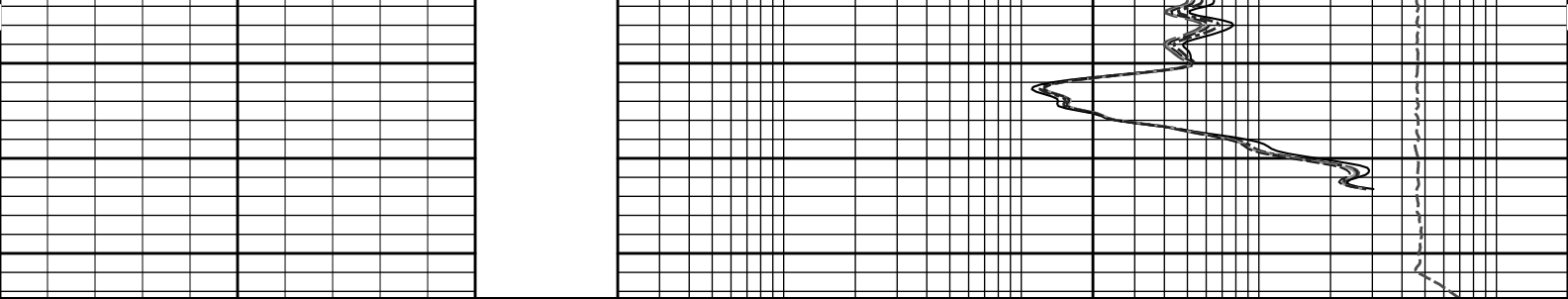


4600

4700

FRSP





SP		MD 1 : 240 ft	10K		Tension	0
-]20[+			pounds			
0	Gamma API	150	Tension Pull 10	0	0.2 10in Resistivity 2ft Res 2000	
api			ohmm			
SHALE			Tension Pull	0.2	20in Resistivity 2ft Res 2000	
			ohmm			
			0.2	30in Resistivity 2ft Res 2000		
		ohm-metre				
		0.2	60in Resistivity 2ft Res 2000			
		ohmm				
		0.2	90in Resistivity 2ft Res 2000			
			ohmm			

HALLIBURTON




Plot Time: 16-Sep-13 08:01:35
Plot Range: 1380 ft to 4794.75 ft
Data: HOLT_1\Well Based\CASING\
Plot File: \\LOCAL-HOLT_1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNACRT\ACRT_5_main_lib

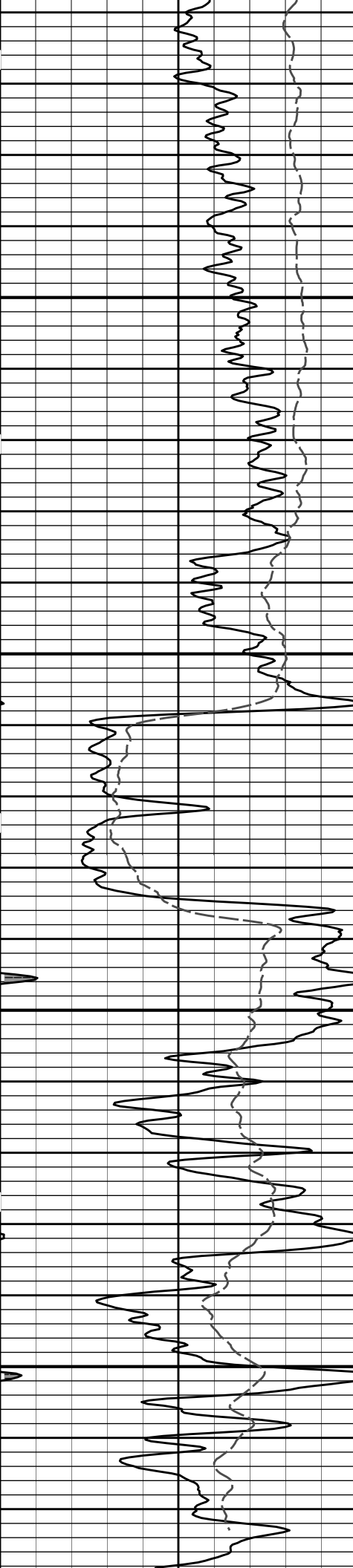
5 INCH MAIN LOG

HALLIBURTON

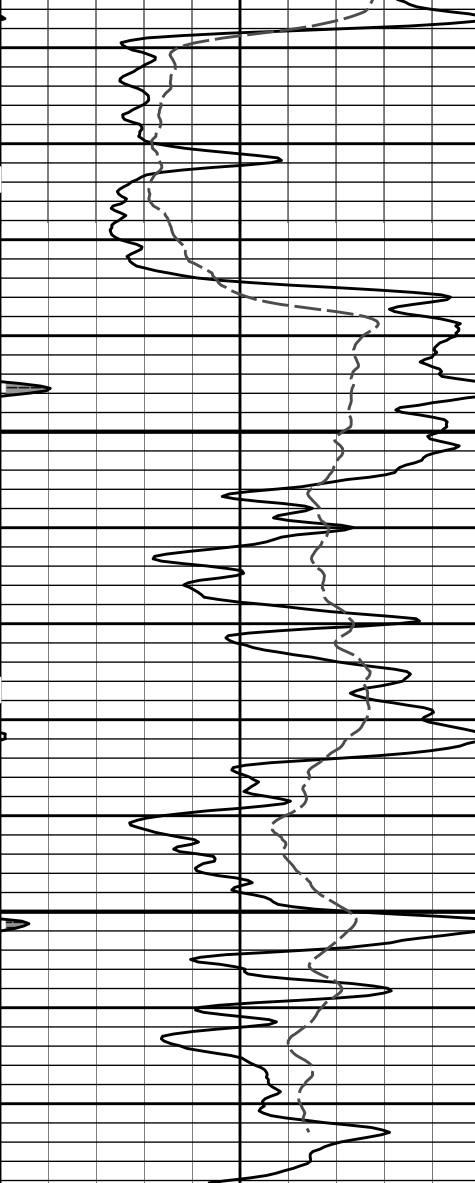
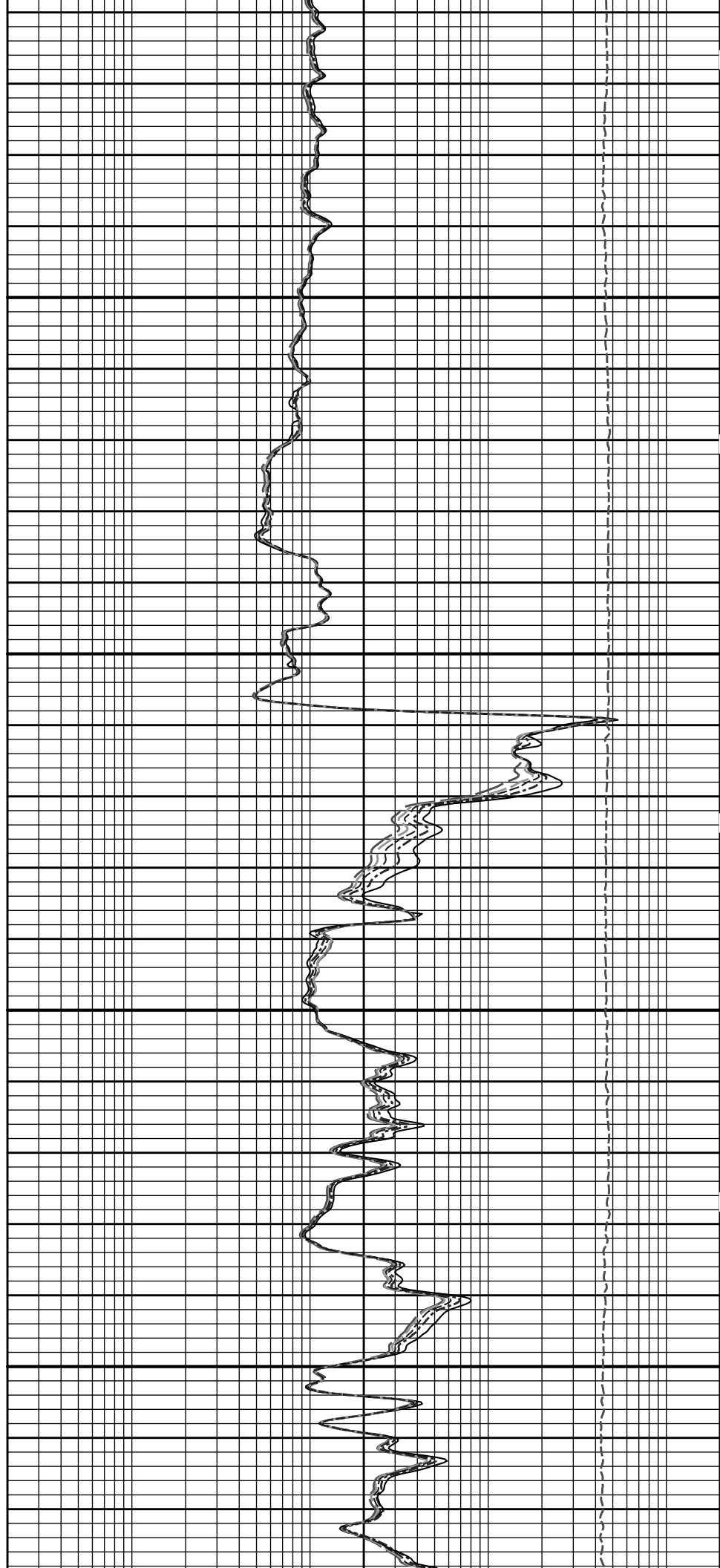
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Data: HOLT_1\Well Based\REPEAT\
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REPEAT SECTION

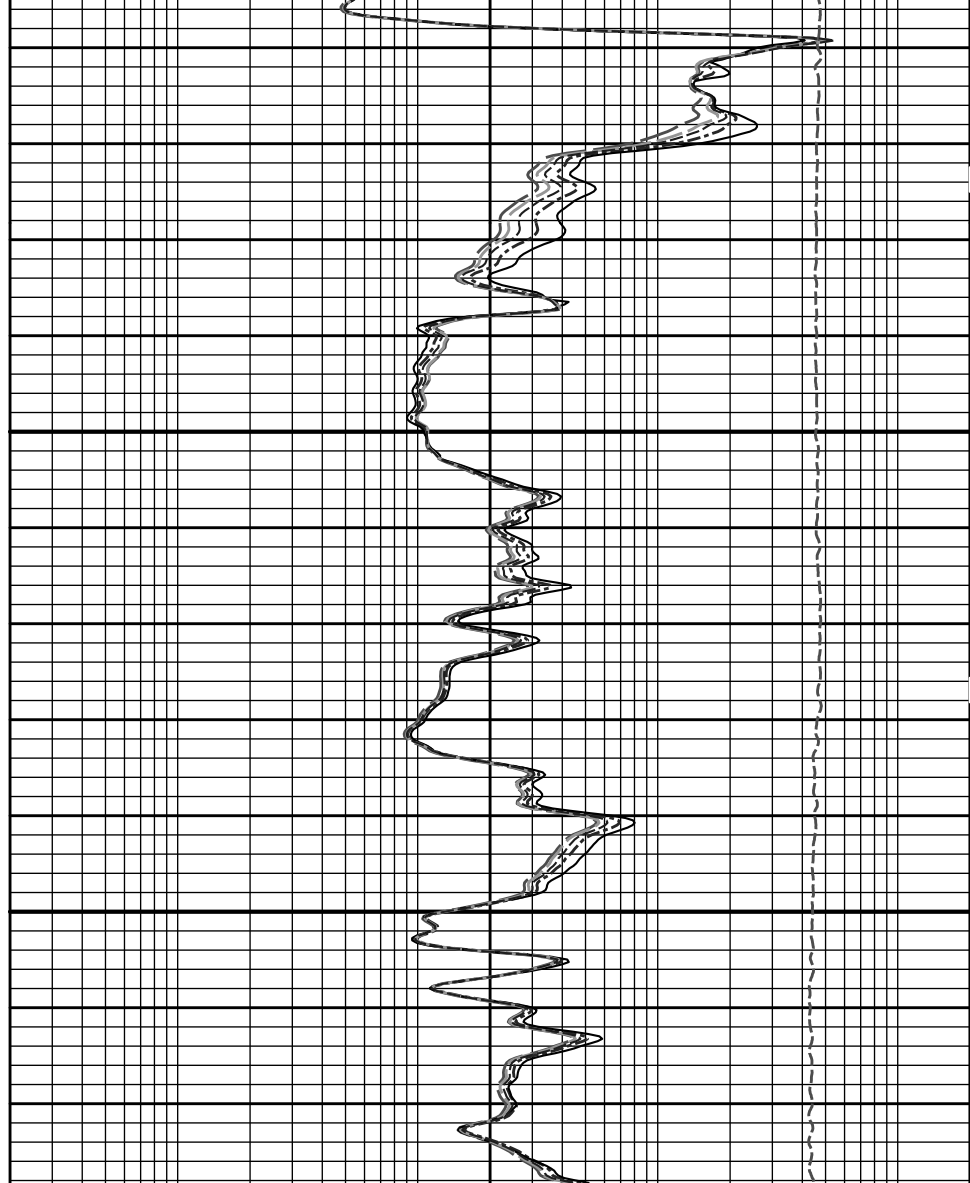
<div></div> <div></div> <div>SHALE</div> <div>0Gamma API150</div> <div>api</div> <div>SP</div> <div>-]20[+</div> <div></div>		MD 1 : 240 ft 4500	0.2	90in Resistivity 2ft Res		2000
			ohmm			
			0.2	60in Resistivity 2ft Res		2000
			ohmm			
			0.2	30in Resistivity 2ft Res		2000
			ohm-metre			
			0.2	20in Resistivity 2ft Res		2000
			ohmm			
		0.2	10in Resistivity 2ft Res		2000	
		ohmm				
			10K	Tension	0	
			pounds			
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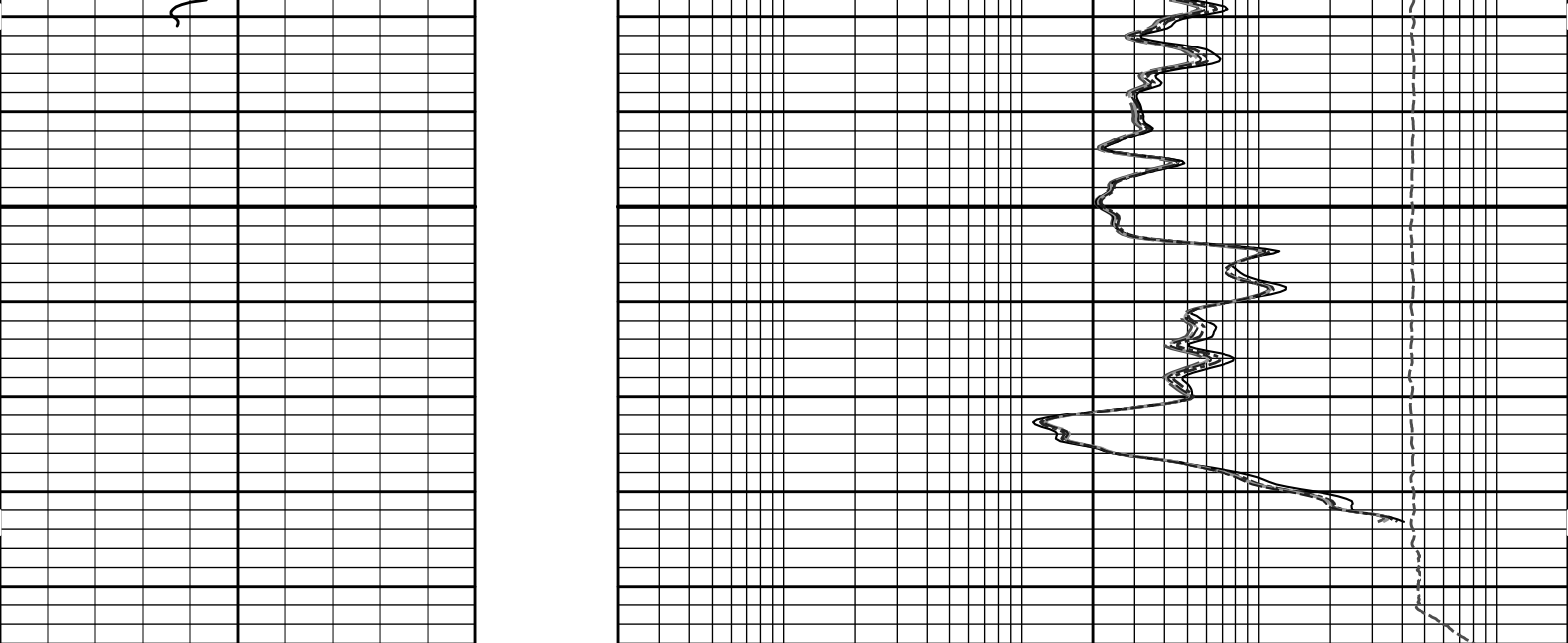


4600



4700





SP		MD 1 : 240 ft		10K	Tension	0
-]20[+				pounds		
0	Gamma API	150		0.2	10in Resistivity 2ft Res	2000
api					ohmm	
SHALE				0.2	20in Resistivity 2ft Res	2000
					ohmm	
				0.2	30in Resistivity 2ft Res	2000
					ohm-metre	
				0.2	60in Resistivity 2ft Res	2000
					ohmm	
			0.2	90in Resistivity 2ft Res	2000	
				ohmm		

HALLIBURTON

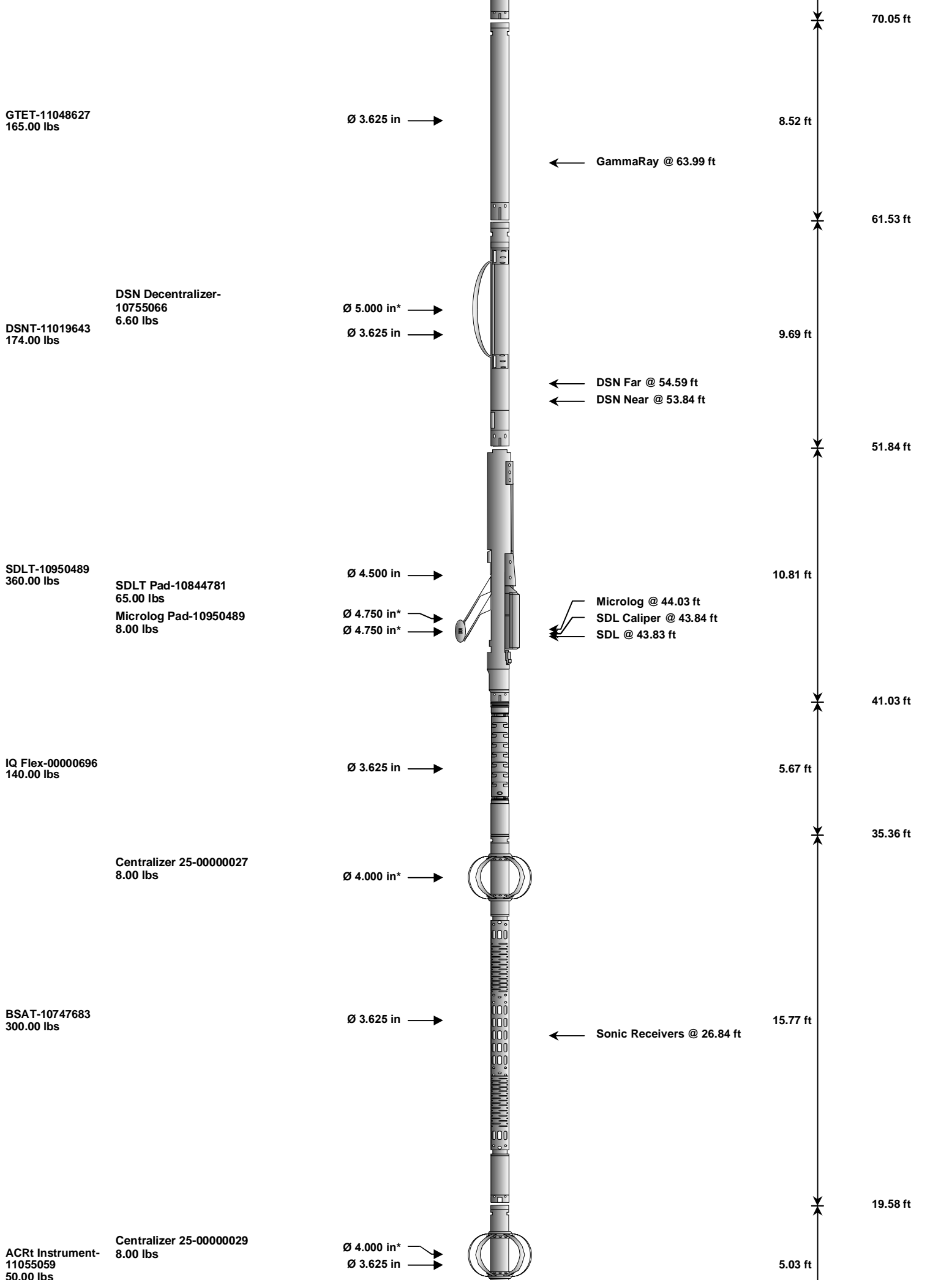
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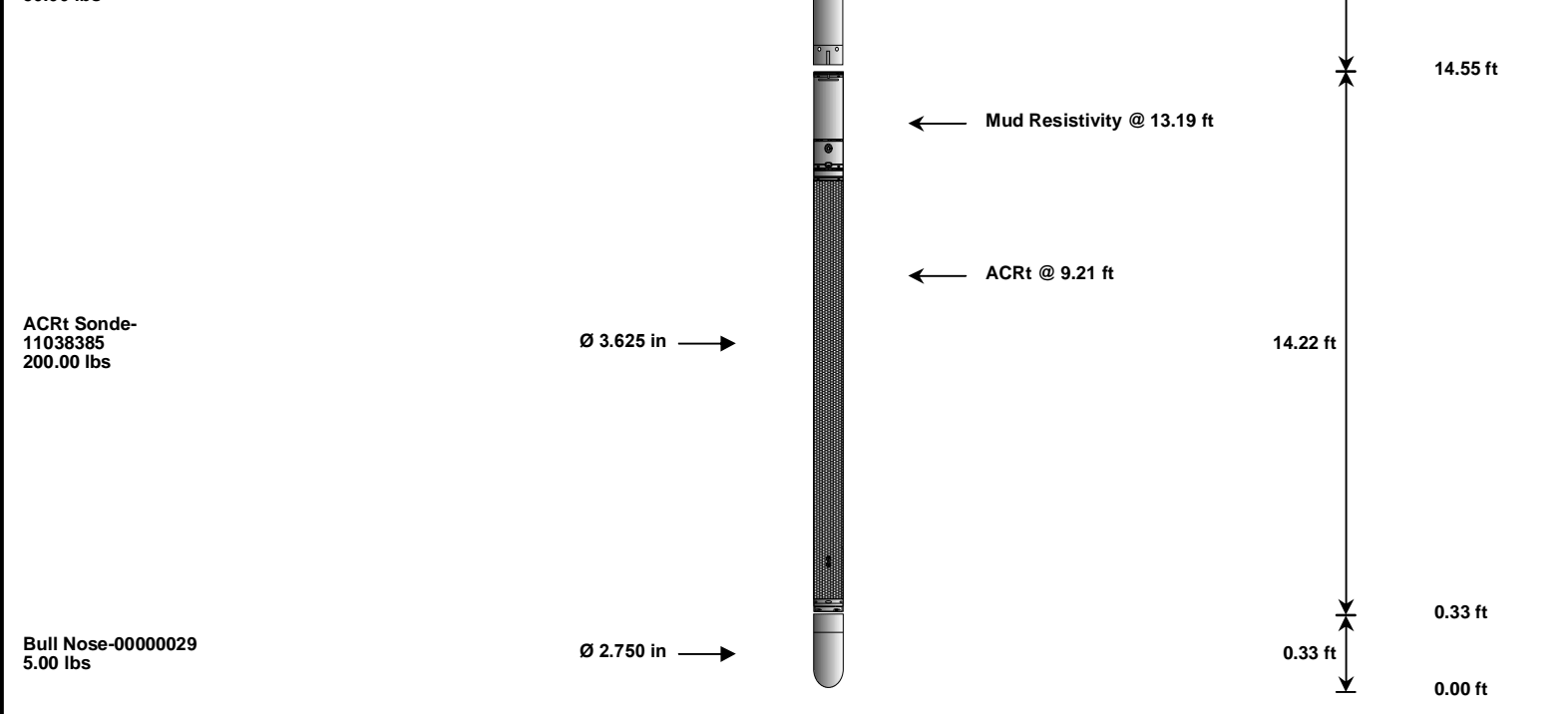
REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-12156658 135.00 lbs		Ø 3.625 in →		← Load Cell @ 76.35 ft ← BH Temperature @ 75.79 ft	6.25 ft	80.04 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 72.01 ft	3.74 ft	73.79 ft





Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)	
RWCH	Releasable Wireline Cable Head		12156658	135.00	6.25	73.79	300.00	
SP	SP Sub		11441455	60.00	3.74	70.05	300.00	
GTET	Gamma Telemetry Tool		11048627	165.00	8.52	61.53	60.00	
DSNT	Dual Spaced Neutron		11019643	174.00	9.69	51.84	60.00	
DCNT	DSN Decentralizer		10755066	6.60	5.13	*	55.17	300.00
SDLT	Spectral Density Tool		10950489	360.00	10.81	41.03	60.00	
MICP	Microlog Pad		10950489	8.00	1.00	*	43.53	60.00
SDLP	Density Insite Pad		10844781	65.00	2.55	*	43.24	60.00
IQF	IQ Flex tool		00000696	140.00	5.67	35.36	300.00	
BSAT	Borehole Sonic Array Tool		10747683	300.00	15.77	19.58	60.00	
OBCEN	Centralizer - 25 in. Overbody		00000027	8.00	2.08	*	32.52	300.00
ACRt	Array Compensated True Resistivity Instrument Section		11055059	50.00	5.03	14.55	300.00	
OBCEN	Centralizer - 25 in. Overbody		00000029	8.00	2.08	*	16.39	300.00
ACRt	Array Compensated True Resistivity Sonde Section		11038385	200.00	14.22	0.33	300.00	
BLNS	Bull Nose		00000029	5.00	0.33	0.00	300.00	
Total				1,684.60	80.04			
* Not included in Total Length and Length Accumulation.								
Data: HOLT_1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\IDLE								
Date: 16-Sep-13 06:19:15								

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11048627	Reference Calibration Date:	02-Jul-13 07:19:00
Engineer:	THOMAS HYDE	Calibration Date:	14-Aug-13 07:16:10
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB146
 Calibrator API Reference:265.00 api
 Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	51.1	50.6	api
Background + Calibrator	323.4	320.2	api
Calibrator	272.3	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION									
Tool Name:		GTET - 11048627				Reference Calibration Date:		14-Aug-13 07:16:10	
Engineer:		J. BOLLOM				Calibration Date:		12-Sep-13 17:49:37	
Software Version:		WL INSITE R3.8.4 (Build 5)				Calibration Version:		1	
Calibrator Source S/N: TB146									
Calibrator API Reference:265.00 api									
Equivalent Calibrator API Reference:269.6 api									
		Field Verification		Shop		Field		Units	
		Background		50.6		51.0		api	
		Background + Calibrator		320.2		314.5		api	
		Calibrator		269.6		263.5		api	

Tx CURRENT GAIN		PASS				
Rmud VERIFICATION		PASS				
TOOL OK TO LOG						
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11048627						
Gamma Ray Calibrator	269.6	263.5	-----	6.1	+/- 9.00	api
ACRt Sonde-11038385						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: HOLT_1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNIDLE					Date: 16-Sep-13 06:24:36	

<div> <div>HALLIBURTON</div> <div>PARAMETERS REPORT</div> </div>						
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	9.200	ppg	
	SHARED	WAGT	Weighting Agent	Natural		
	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	ICOD	AHV Casing OD	5.500	in	
	SHARED	ST	Surface Temperature	75.0	degF	
	SHARED	TD	Total Well Depth	4800.00	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	Temperature Master Tool	NONE		
	SHARED	BHSM	Borehole Size Master Tool	NONE		
	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		
	GTET	GROK	Process Gamma Ray?	Yes		
	GTET	GRSO	Gamma Tool Standoff	0.000	in	
	CTET	CEOK	Process Gamma Ray EVR2	No		

GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	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	
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
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 Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
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 Up	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
BOTTOM_____				

Data: HOLT_1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNIDLE

Date: 16-Sep-13 06:24:02

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
RWCH				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	72.01	NO	
SP	Spontaneous Potential	72.01	BLK	1.250

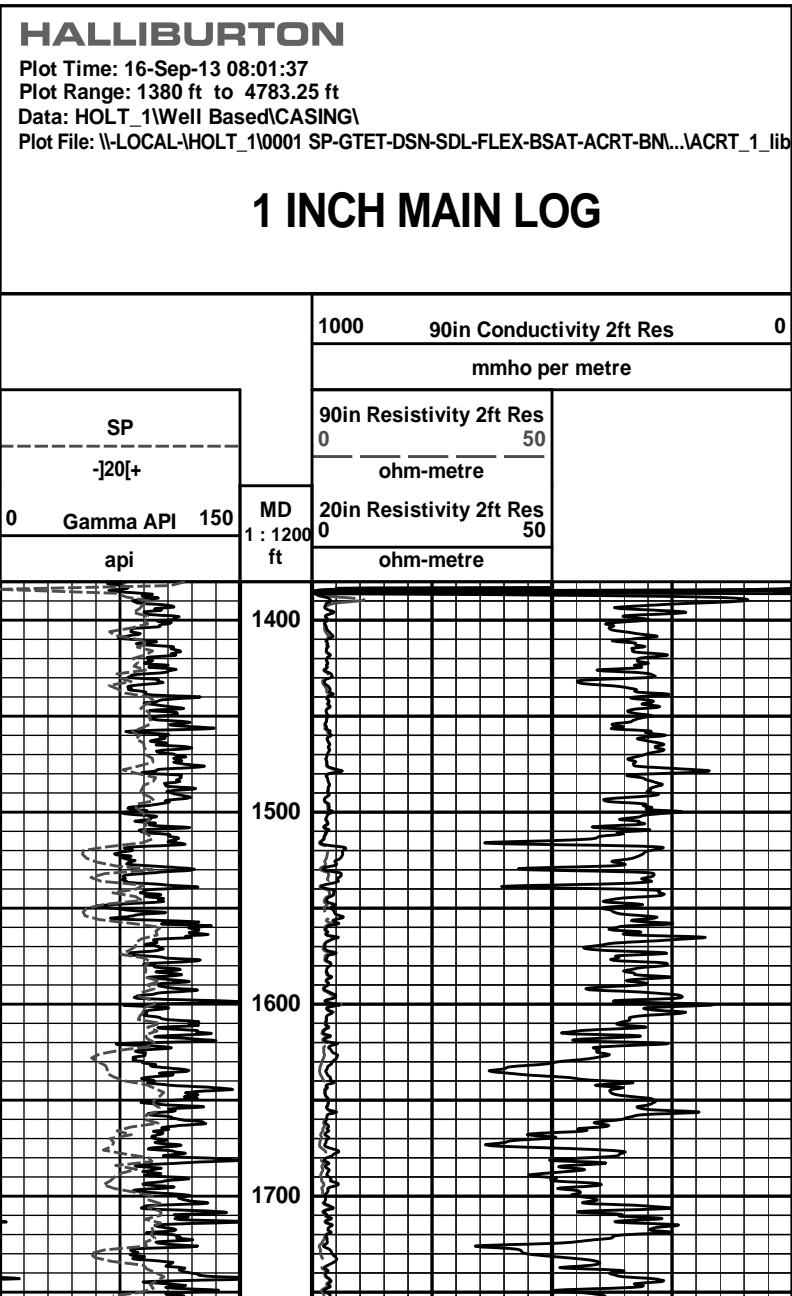
SPR	Raw Spontaneous Potential	72.01	NO	
SPO	Spontaneous Potential Offset	72.01	NO	
GTET				
TPUL	Tension Pull	63.99	NO	
GR	Natural Gamma Ray API	63.99	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	63.99	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	63.99	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	53.74	NO	
RNDS	Near Detector Telemetry Counts	53.84	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.59	TRI	0.583
DNTT	DSN Tool Temperature	53.84	NO	
DSNS	DSN Tool Status	53.74	NO	
ERND	Near Detector Telemetry Counts EVR	53.84	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.59	BLK	0.000
ENTM	DSN Tool Temperature EVR	53.84	NO	
SDLT				
TPUL	Tension Pull	43.84	NO	
PCAL	Pad Caliper	43.84	TRI	0.250
ACAL	Arm Caliper	43.84	TRI	0.250
BSAT				
TPUL	Tension Pull	26.84	NO	
STAT	Status	26.84	NO	
DLYT	Delay Time	26.84	NO	
SI	Sample Interval	26.84	NO	
TXRX	Raw Telemetry 10 Receivers	26.84	NO	
FRMC	Tool Frame Count	26.84	NO	
GMOD	Gain processing mode	19.58	NO	
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000

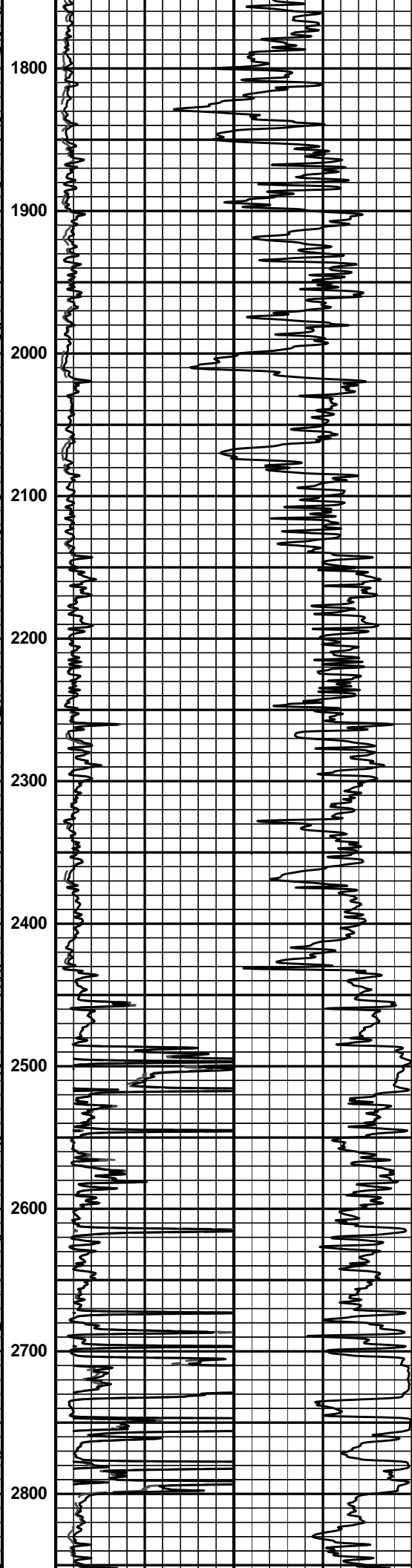
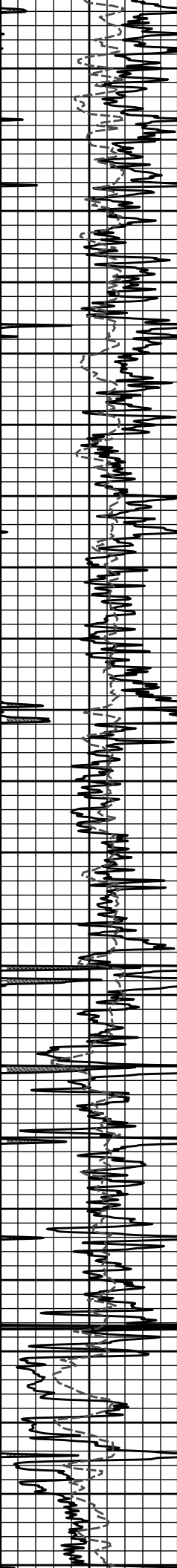
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Current Raw 12K X Receiver	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
SDLT Pad				
TPUL	Tension Pull	43.83	NO	
NAB	Near Above	43.66	BLK	0.920
NHI	Near Cesium High	43.66	BLK	0.920
NLO	Near Cesium Low	43.66	BLK	0.920
NVA	Near Valley	43.66	BLK	0.920
NBA	Near Barite	43.66	BLK	0.920
NDE	Near Density	43.66	BLK	0.920
NPK	Near Peak	43.66	BLK	0.920
NLI	Near Lithology	43.66	BLK	0.920
NBAU	Near Barite Unfiltered	43.66	BLK	0.250
NLIU	Near Lithology Unfiltered	43.66	BLK	0.250
FAB	Far Above	44.01	BLK	0.250
FHI	Far Cesium High	44.01	BLK	0.250
FLO	Far Cesium Low	44.01	BLK	0.250
FVA	Far Valley	44.01	BLK	0.250
FBA	Far Barite	44.01	BLK	0.250
FDE	Far Density	44.01	BLK	0.250
FPK	Far Peak	44.01	BLK	0.250
FLI	Far Lithology	44.01	BLK	0.250
PTMP	Pad Temperature	43.84	BLK	0.920
NHV	Near Detector High Voltage	43.24	NO	

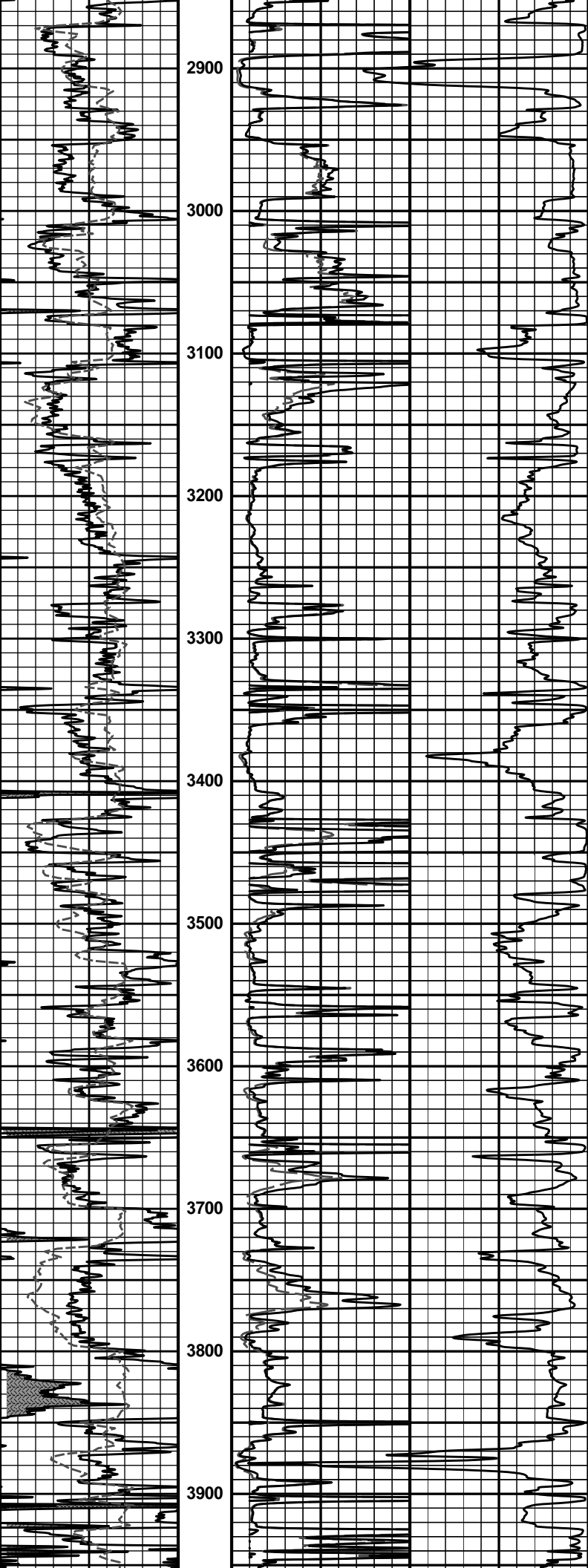
FHV	Far Detector High Voltage	43.24	NO
ITMP	Instrument Temperature	43.24	NO
DDHV	Detector High Voltage	43.24	NO

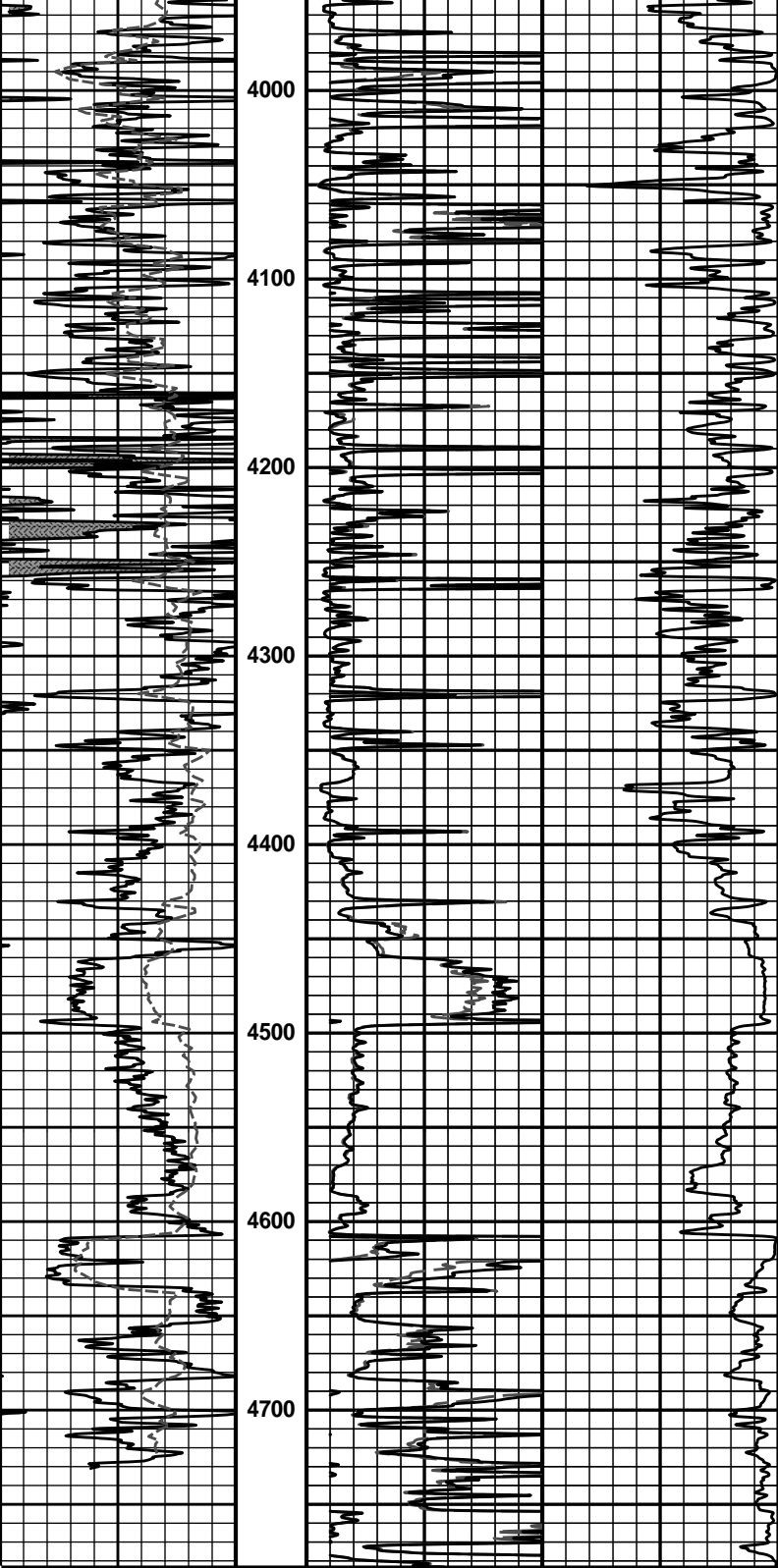
Microlog Pad				
TPUL	Tension Pull	44.03	NO	
MINV	Microlog Lateral	44.03	BLK	0.750
MNOR	Microlog Normal	44.03	BLK	0.750
Data: HOLT_1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNIDLE			Date: 16-Sep-13 06:23:34	

COMPANY	RAMSEY PROPERTY MANAGEMENT		
WELL	HOLT #1		
FIELD	VERDE		
COUNTY	BACA	STATE	COLORADO
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	









0	Gamma API	150	MD	20in Resistivity 2ft Res	
	api		1 : 1200	0	50
			ft	ohm-metre	
	SP			90in Resistivity 2ft Res	
	-20	+		0	50
				ohm-metre	
				1000	90in Conductivity 2ft Res
					0
					mmho per metre

HALLIBURTON

Plot Time: 16-Sep-13 08:01:40
Plot Range: 1380 ft to 4783.25 ft
Data: HOLT_1\Well Based\CASING\
Plot File: \\LOCAL\HOLT_1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN...\ACRT_1.lib

1 INCH MAIN LOG

