

HALLIBURTON

ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

COMPANY		OXY USA INC	
WELL		GARDEN CITY T-3	
FIELD/BLOCK		HUGOTON GAS AREA	
COUNTY		FINNEY	
STATE		KANSAS	
Permanent Datum		G.L.	
Log measured from		KB	
Drilling measured from		KB	
Date		03-Mar-13	
Run No.		ONE	
Depth - Driller		5102.00 ft	
Depth - Logger		5084.0 ft	
Bottom - Logged Interval		5074.0 ft	
Top - Logged Interval		1801.0 ft	
Casing - Driller		8.625 in @ 1802.0 ft	
Casing - Logger		1801.0 ft	
Bit Size		7.875 in @	
Type Fluid in Hole		WATER BASED MUD	
Density		9.3 ppg	
Viscosity		55.00 s/qt	
PH		9.60 pH	
Fluid Loss		10.6 cpm	
Source of Sample		MUD PIT	
Rm @ Meas. Temperature		0.700 ohmm @ 75.00 degF	
Rmf @ Meas. Temperature		0.50 ohmm @ 75.00 degF	
Rmc @ Meas. Temperature		0.850 ohmm @ 75.00 degF	
Source Rmf		MEASURED	
Rm @ BHT		0.45 ohmm @ 120.0 degF	
Time Since Circulation		8.0 hr	
Time on Bottom		03-Mar-13 07:40	
Max. Rec. Temperature		120.0 degF @ 5084.0 ft	
Equipment		10546696 LIBERAL	
Recorded By		J. BOLLOW	
Witnessed By		G. FLAGG	

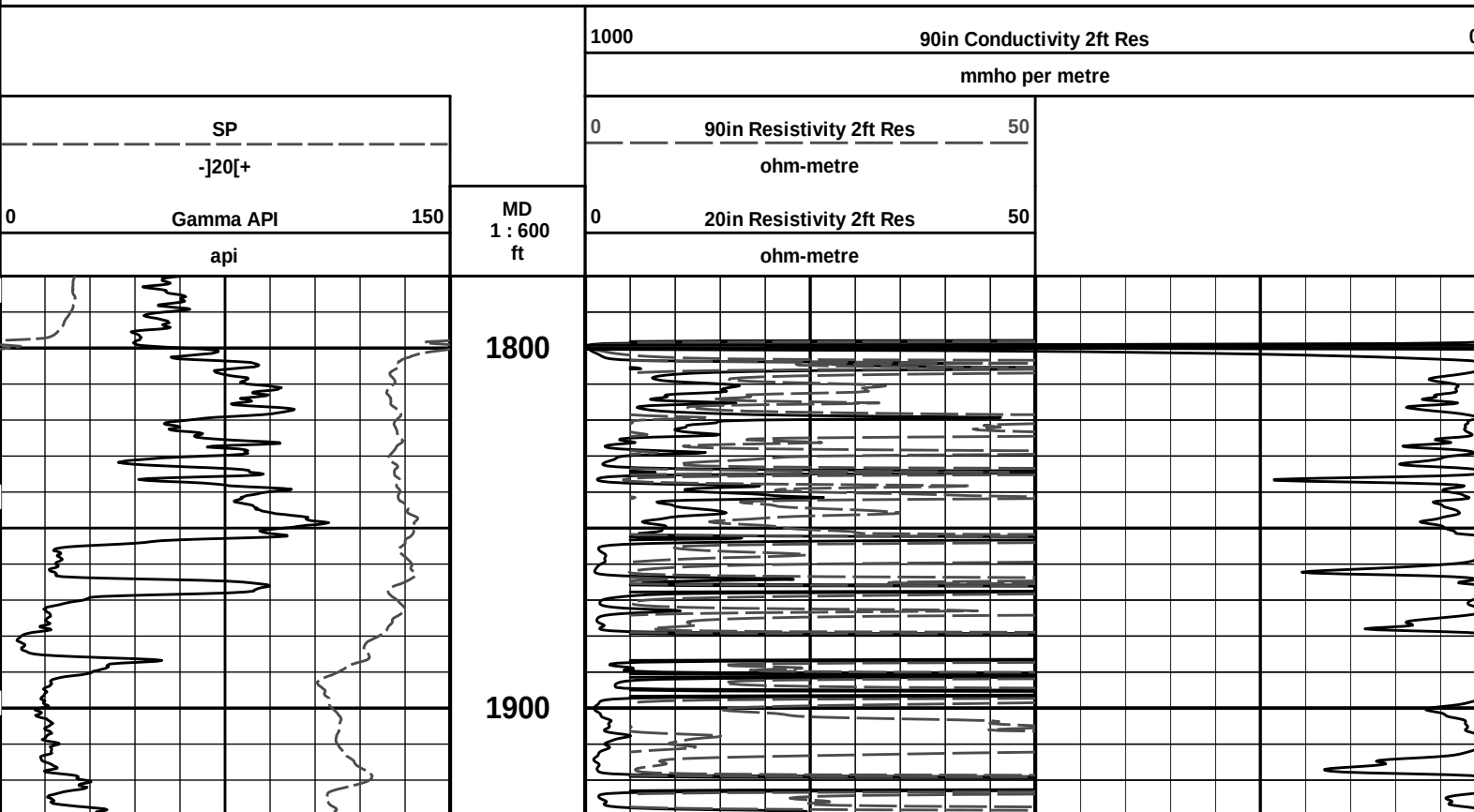
COMPANY	OXY USA INC
WELL	GARDEN CITY T-3
FIELD/BLOCK	HUGOTON GAS AREA
COUNTY	FINNEY
STATE	KANSAS
API No.	15055222050000
Location	1540' FNL & 1550' FWL
Other Services:	MICROLOG DSNT, SDLT BSAT

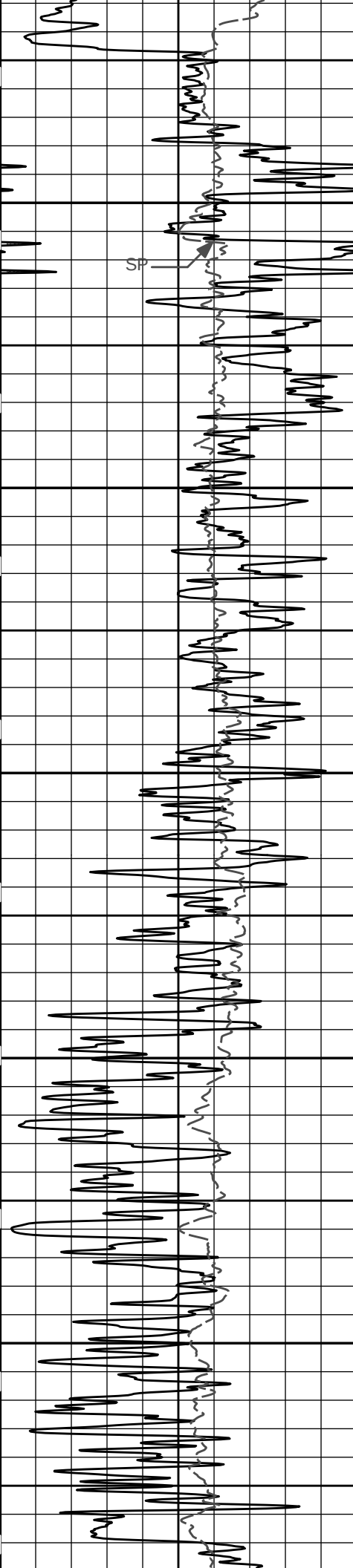
Sect.	29	Twp.	23S	Rge.	34W
Elev.	2973.0 ft	Elev.	K.B.	2984.0 ft	
D.F.		D.F.		2983.0 ft	
G.L.		G.L.		2973.0 ft	

Fold here

Service Ticket No.: 900258040				API Serial No.: 15055222050000				PGM Version: WL INSITE R3.8.0 (Build 2)							
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.		@		@				1962_S909							
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.		11039640		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.		GTET		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
No.	From	To	ft/min	L	R	L	R		L	R	
ONE	5084	1801	REC	0	150						
DIRECTIONAL INFORMATION											
Maximum Deviation @						KOP @					
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING											
CHLORIDES REPORTED AT 5000 MG/L											
LCM REPORTED AT 3 LB/BBL											
GTET-DNST-SDLT-BSAT-ACRT RUN IN COMBINATION											
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											





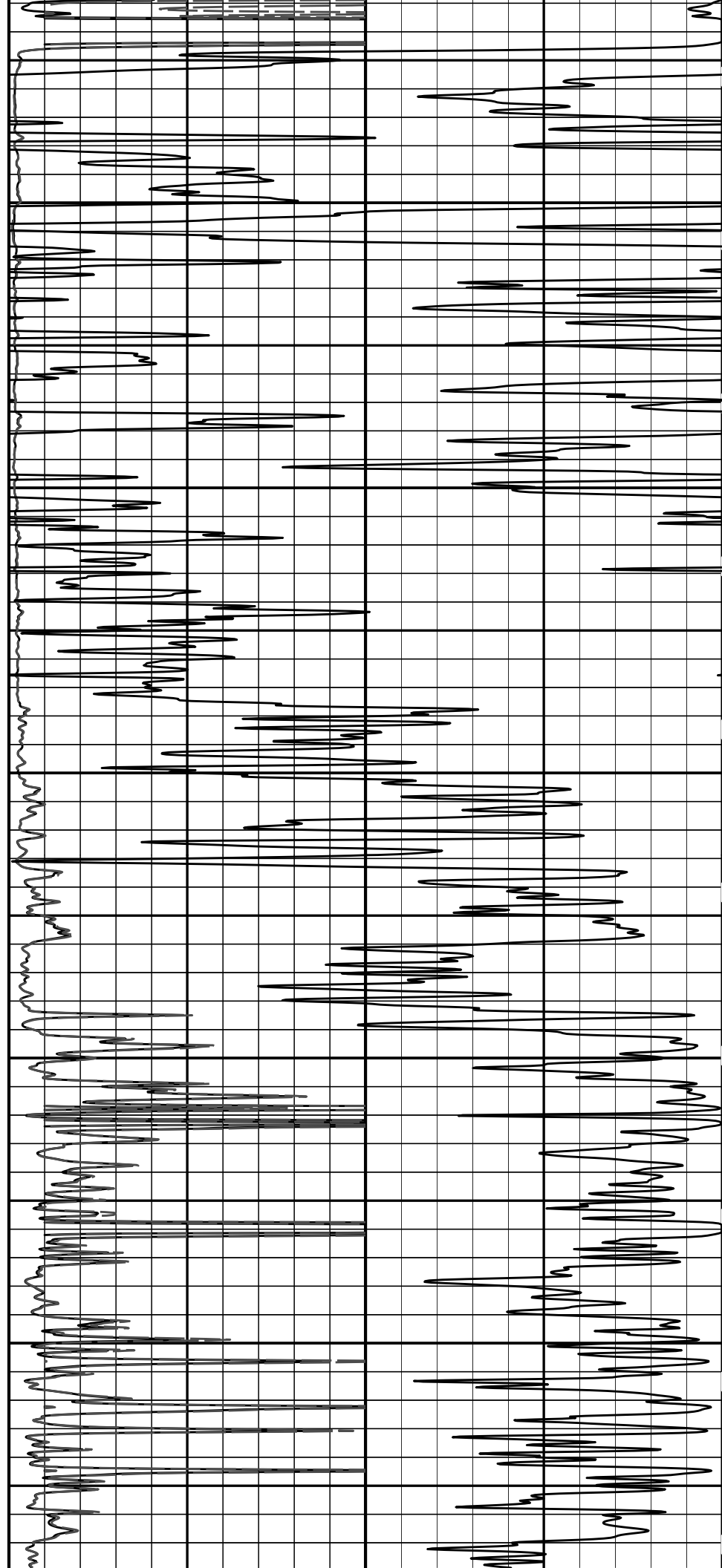
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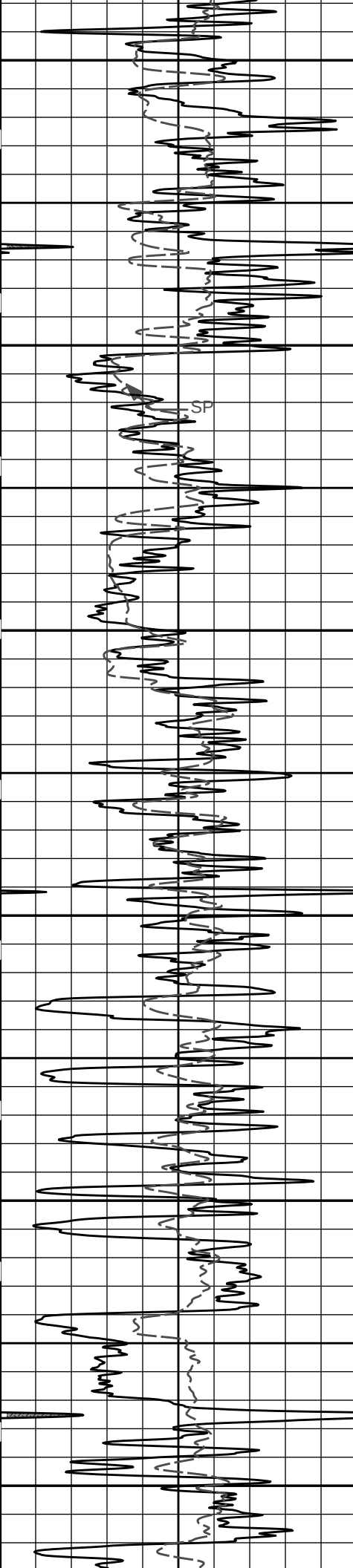
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2200

2300

2400





2500

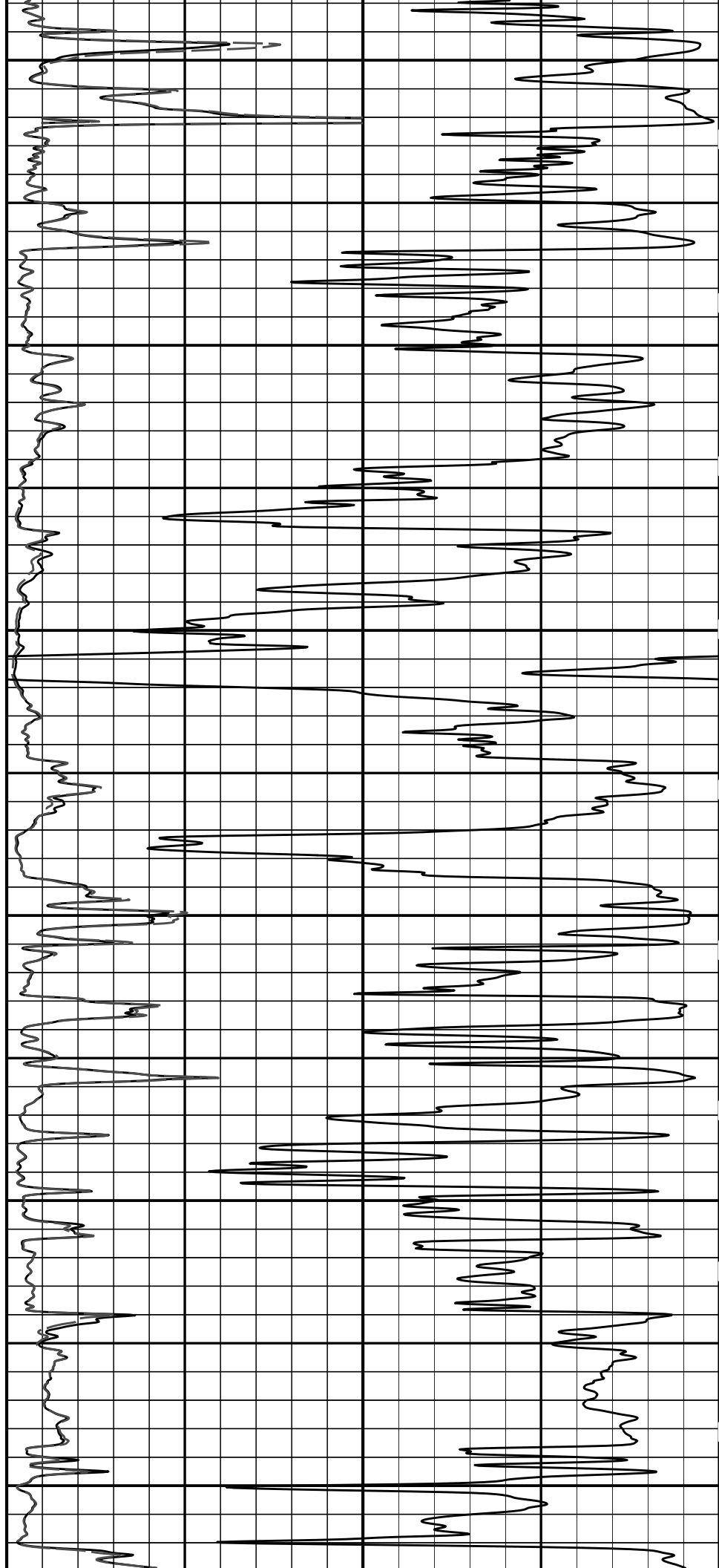
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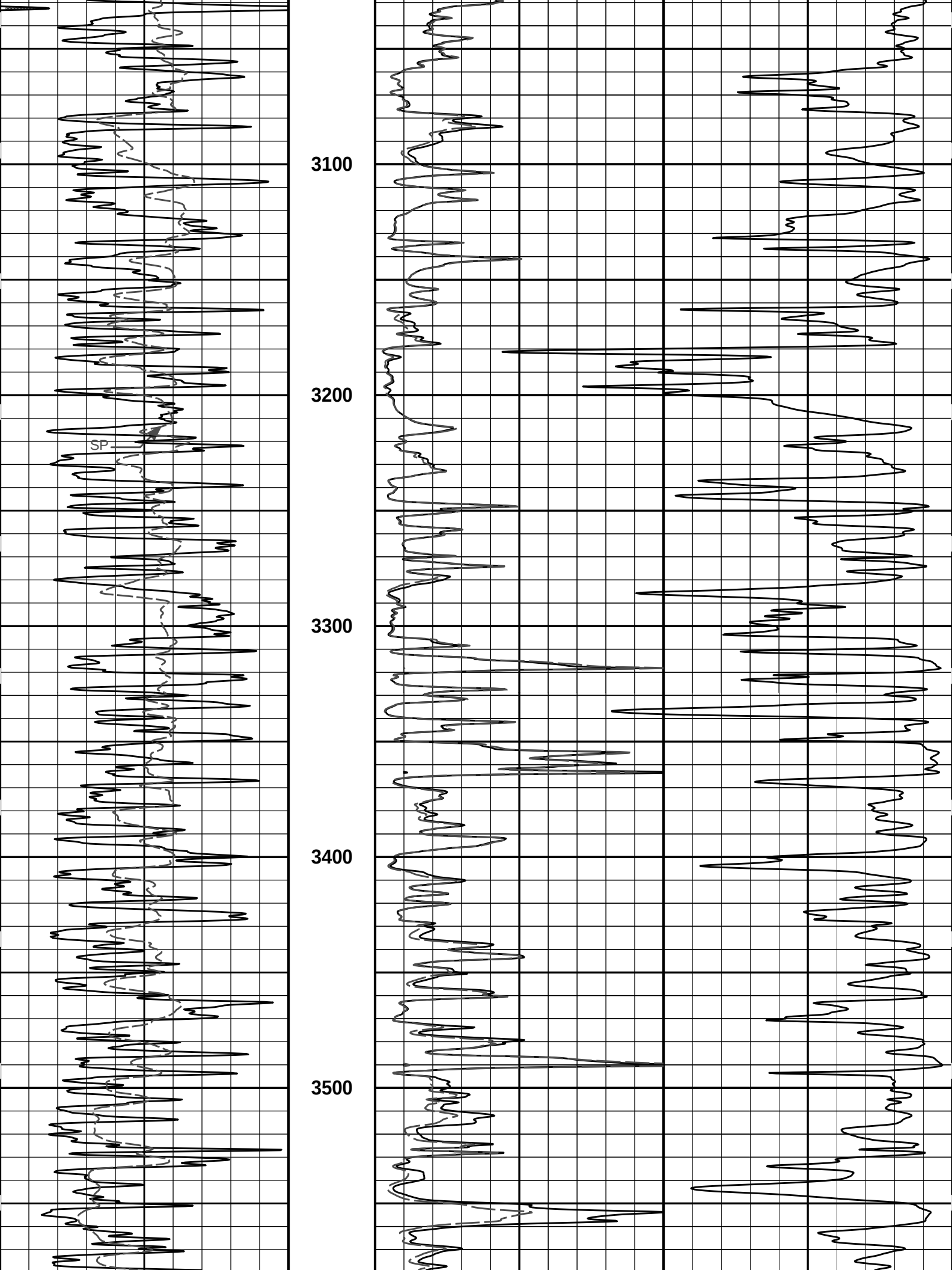
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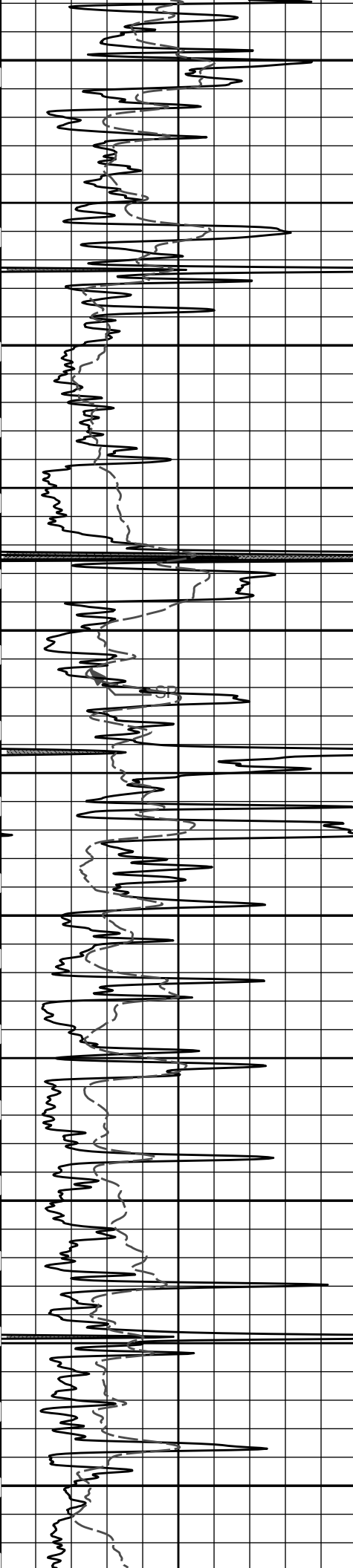
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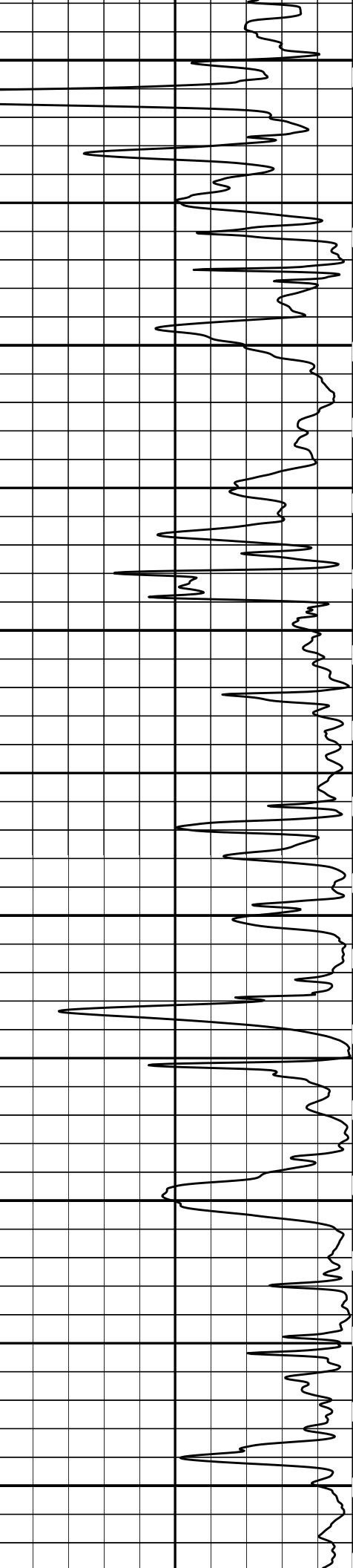
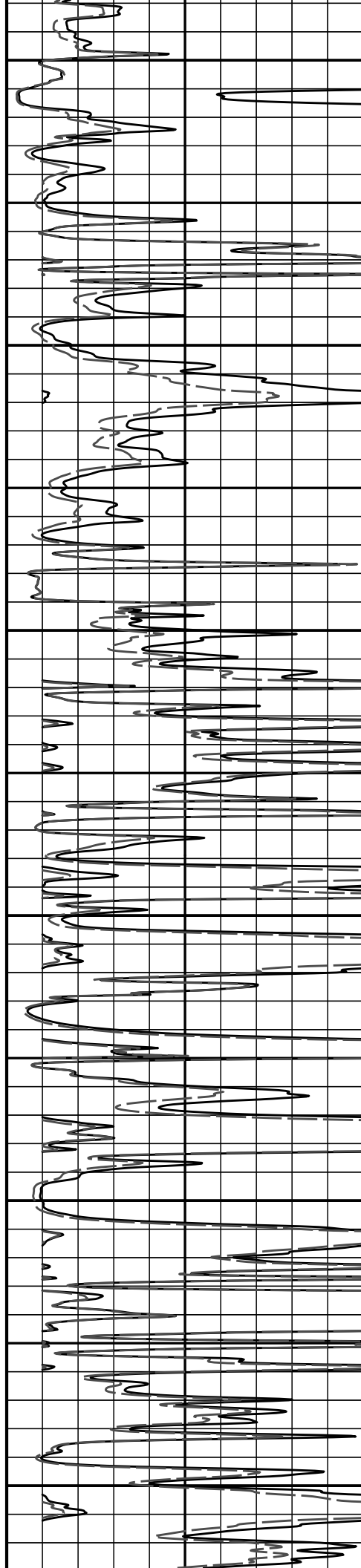
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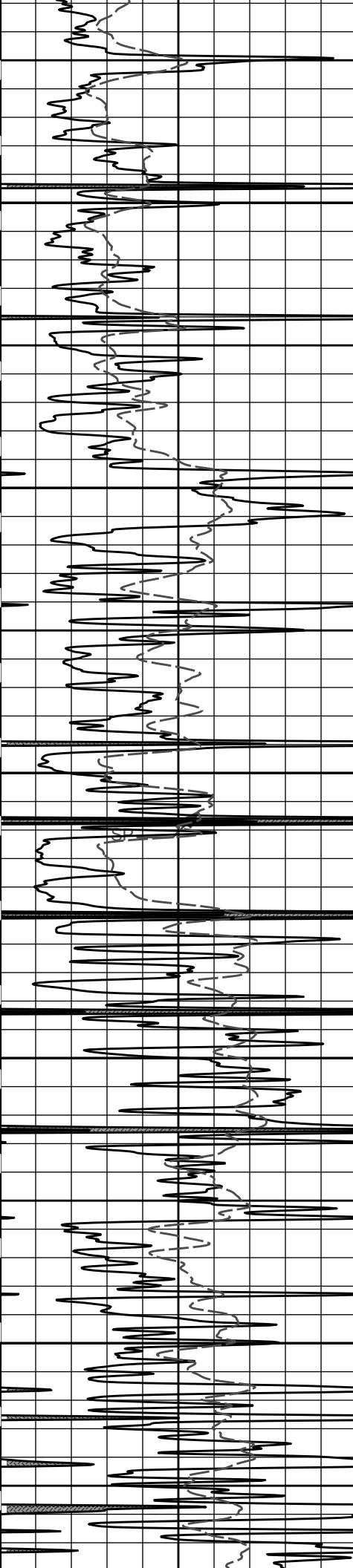
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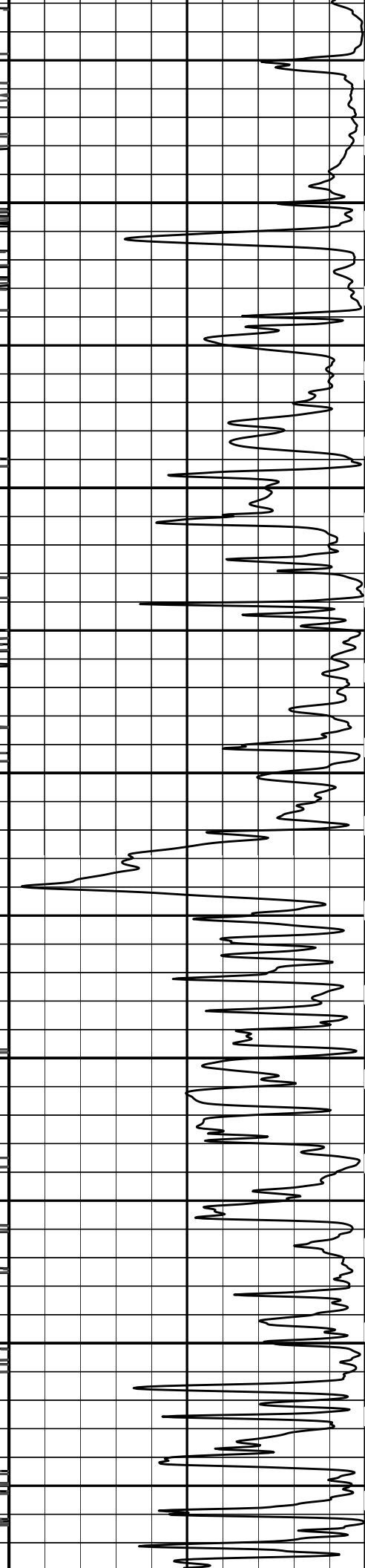
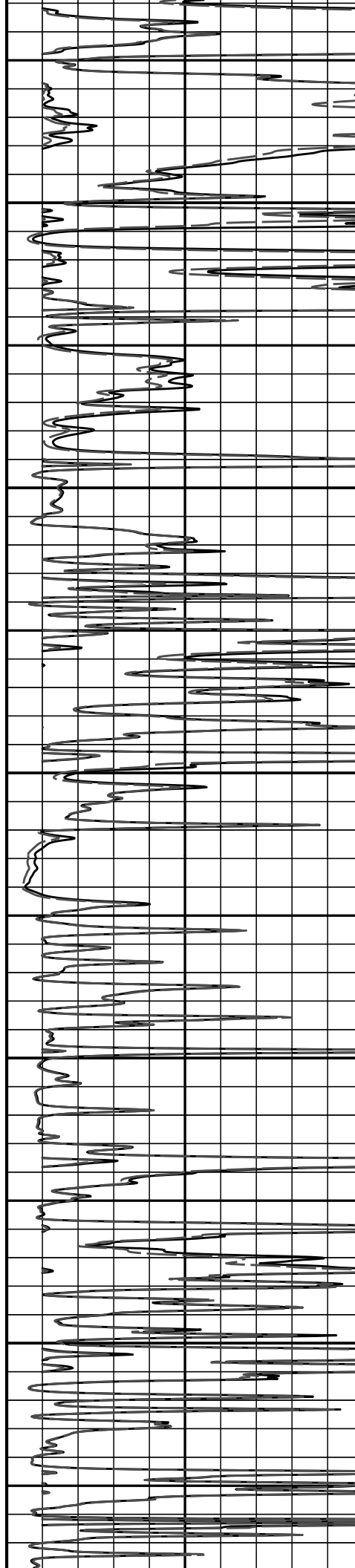
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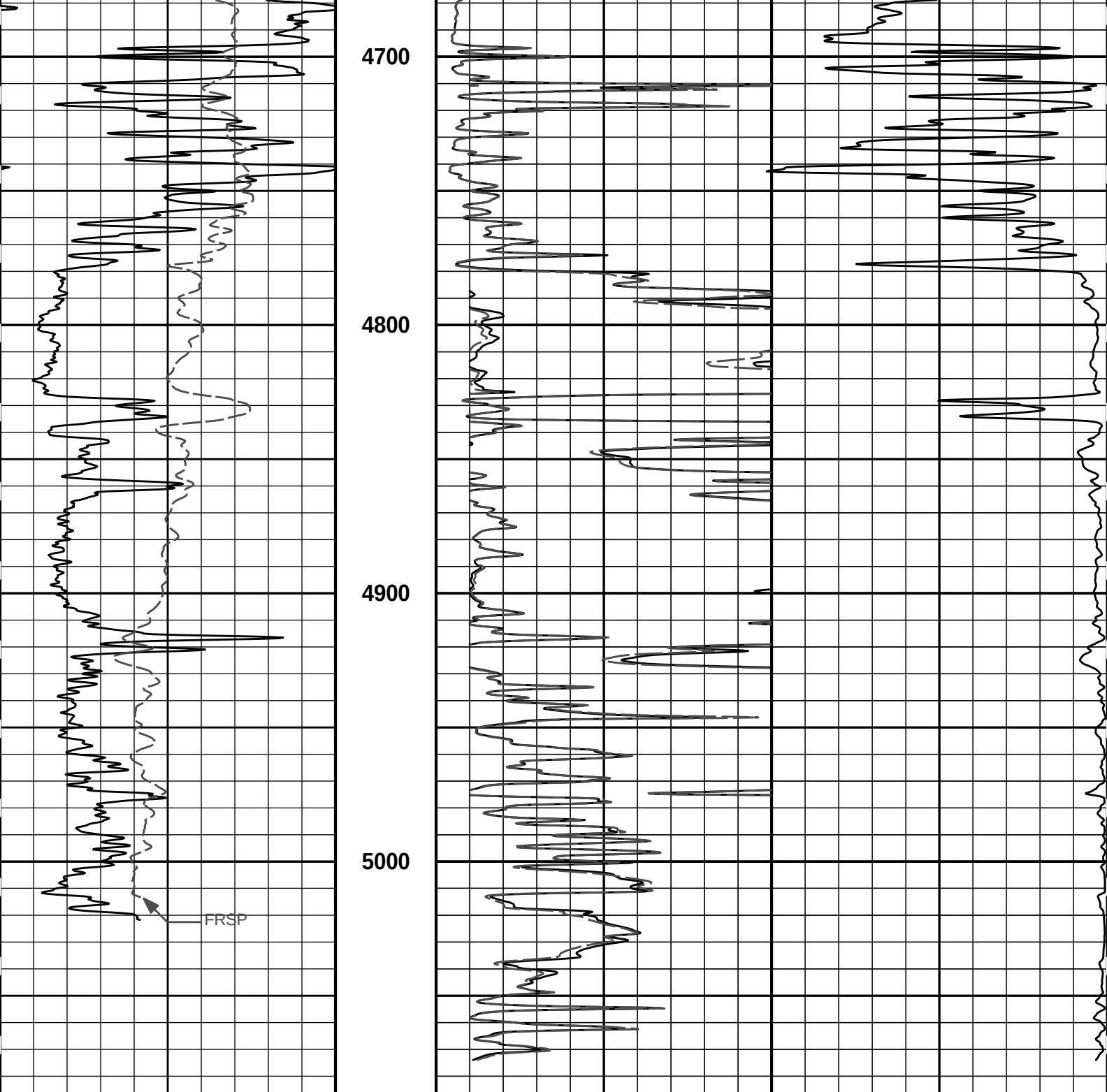
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4400

4500

4600





0	Gamma API		150	MD 1 : 600 ft	0	20in Resistivity 2ft Res		50
	api					ohm-metre		
	SP					90in Resistivity 2ft Res		50
	-]20[+				0	ohm-metre		
					1000	90in Conductivity 2ft Res		0
						mmho per metre		

HALLIBURTON

Plot Time: 03-Mar-13 09:41:55
Plot Range: 1780 ft to 5086.42 ft
Data: GARDEN_CITY_T_3\Well Based\CASING\
Plot File: \\-LOCAL-IGARDEN_CITY_T_3\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHACRT\ACRT_2.lib

2 INCH MAIN LOG

		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	
						pounds	
SHALE		Tension Pull					
Gamma API		Tension Pull					
api		MD					
SP		1 : 240					
-]20[+		ft					
		1800					
		1900					

Tension Pull

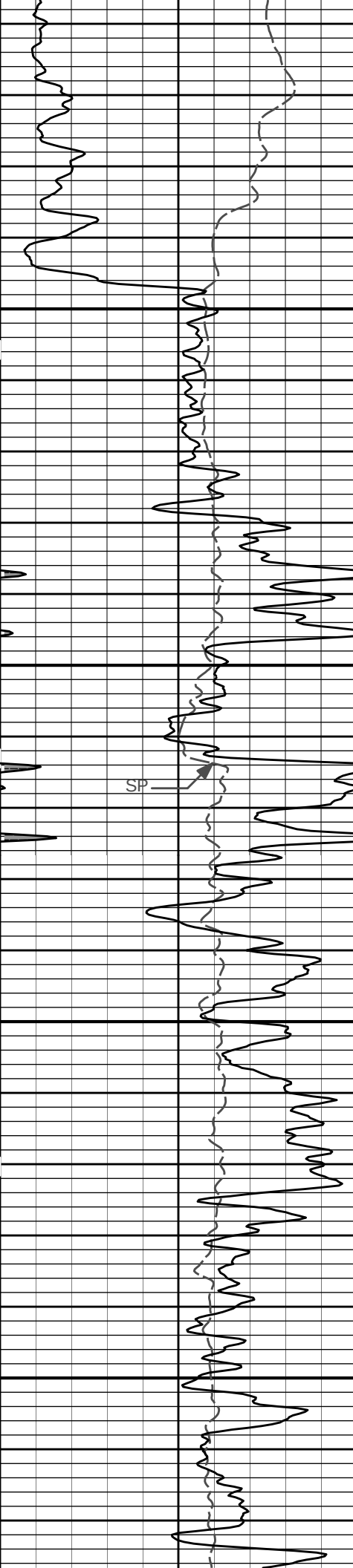
Tension Pull

MD
1 : 240
ft

10K

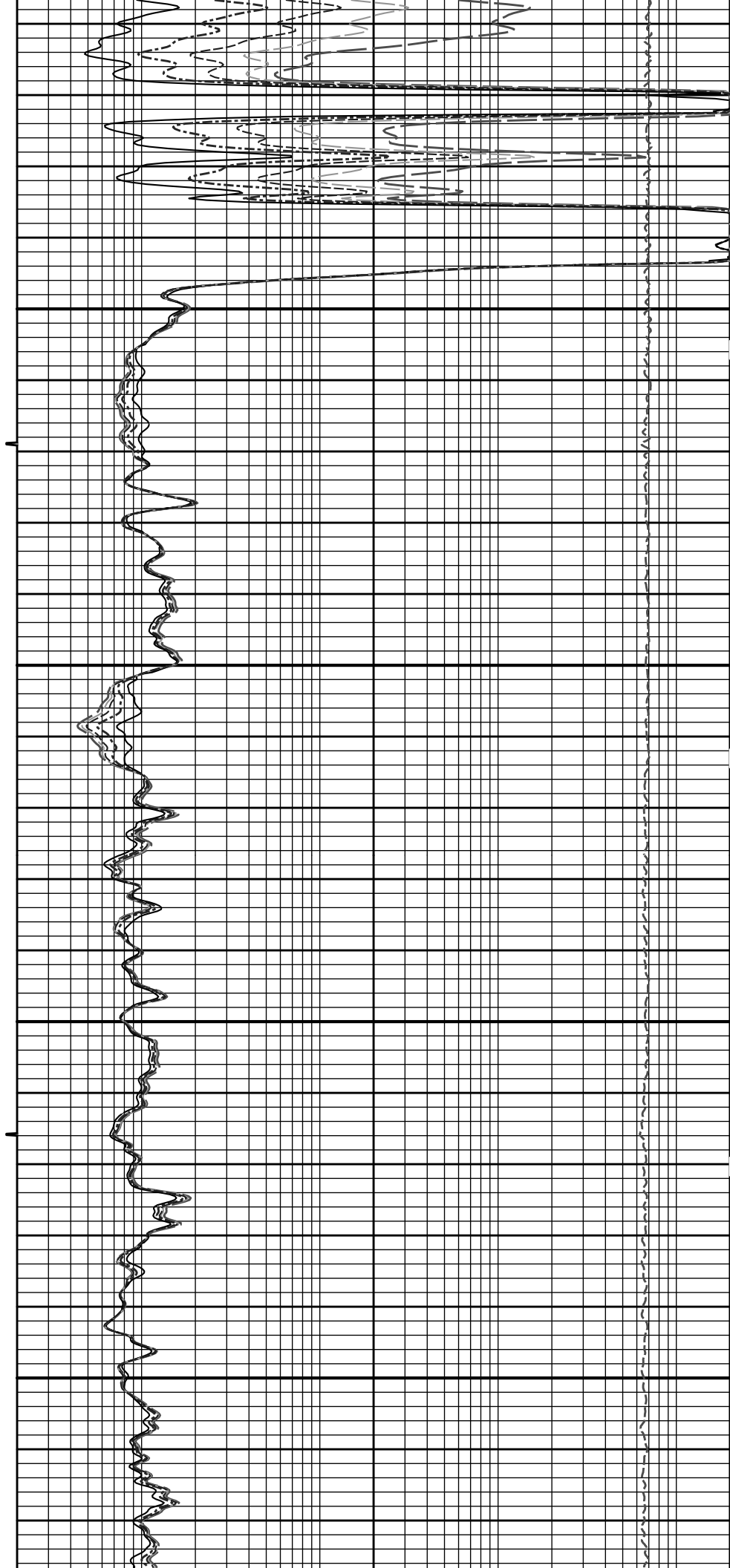
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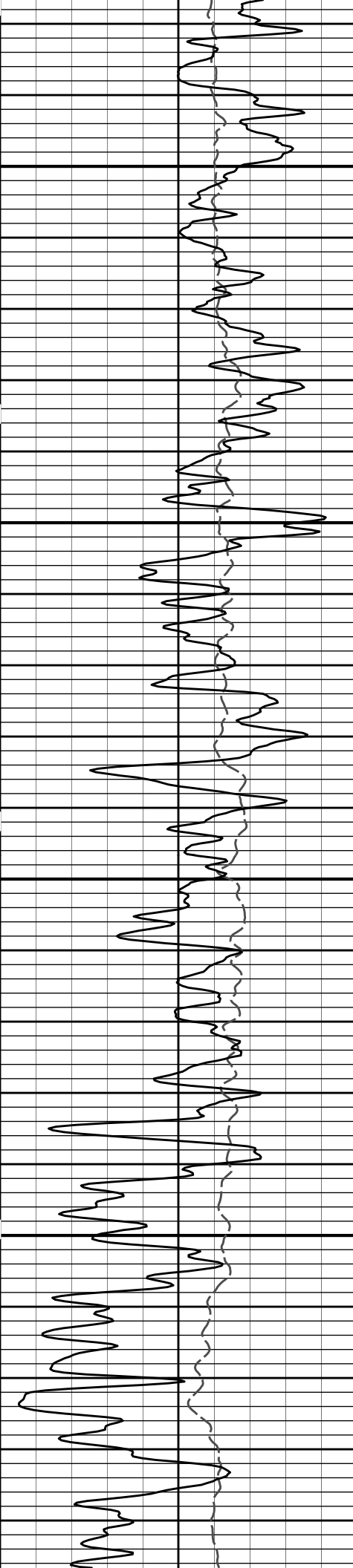
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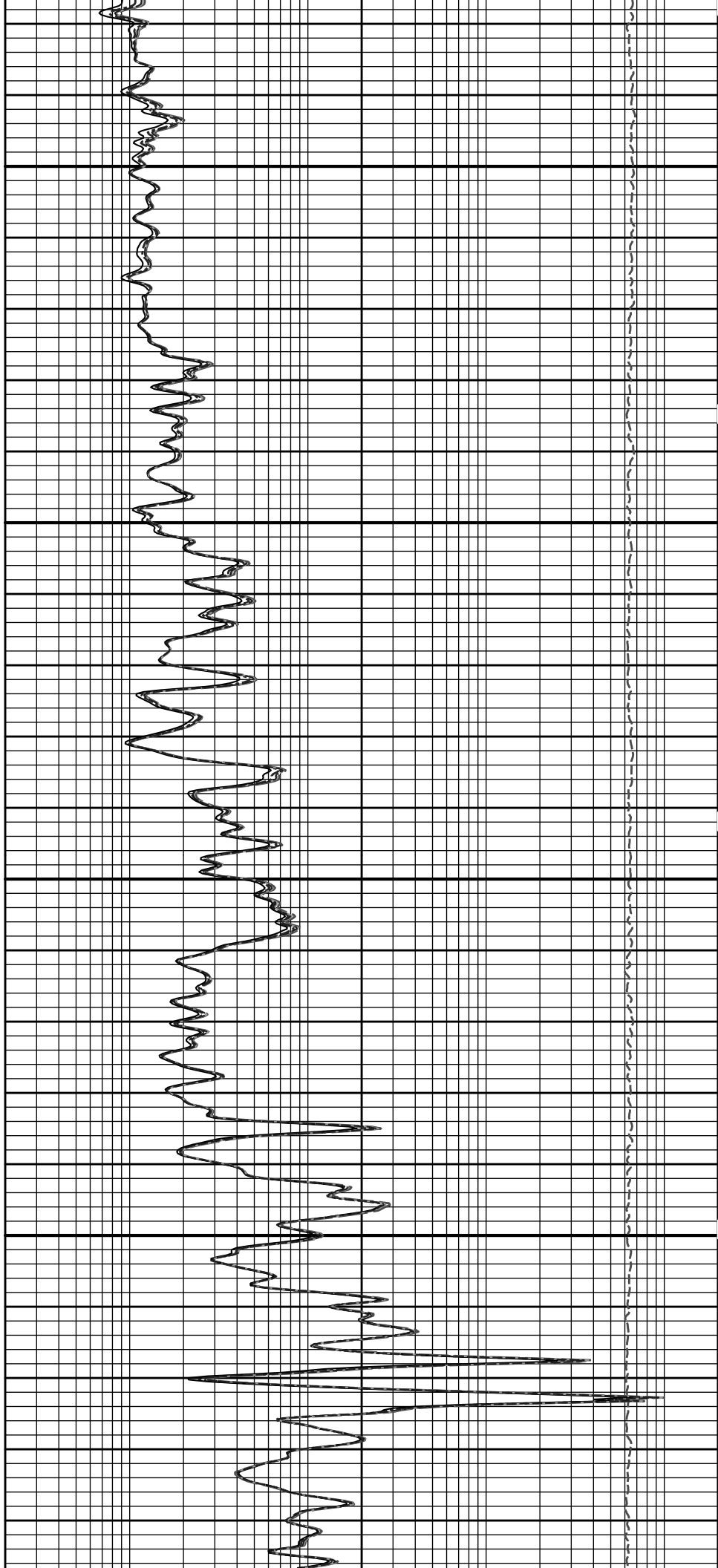
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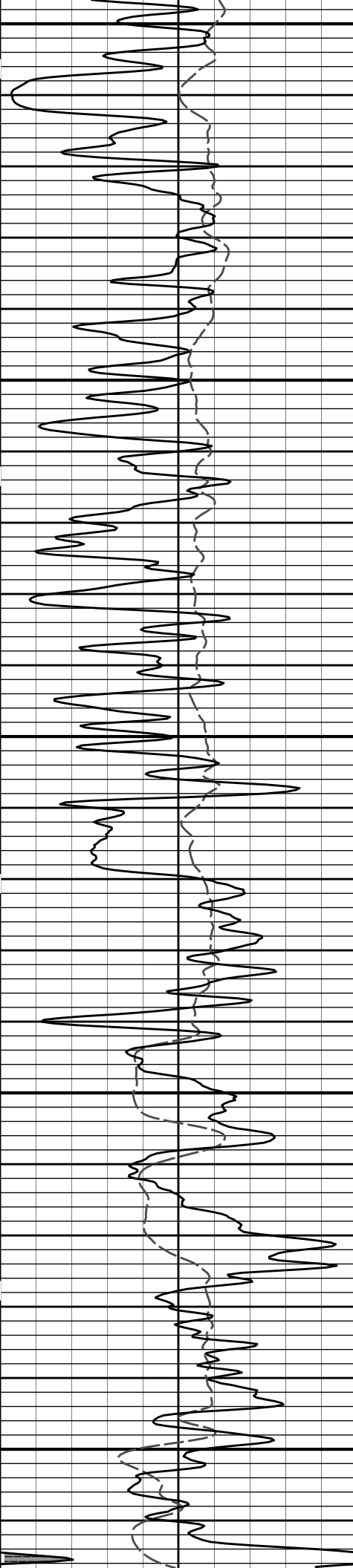




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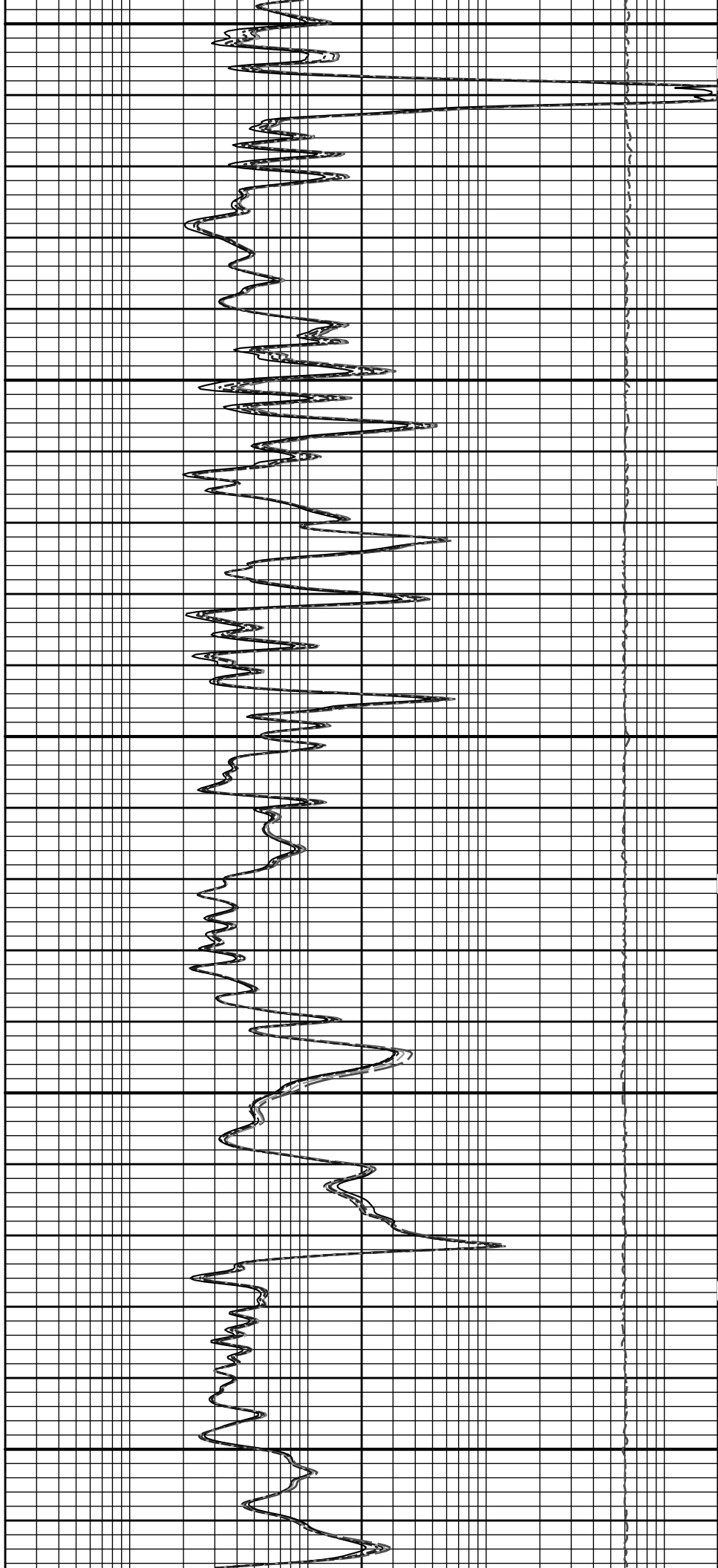
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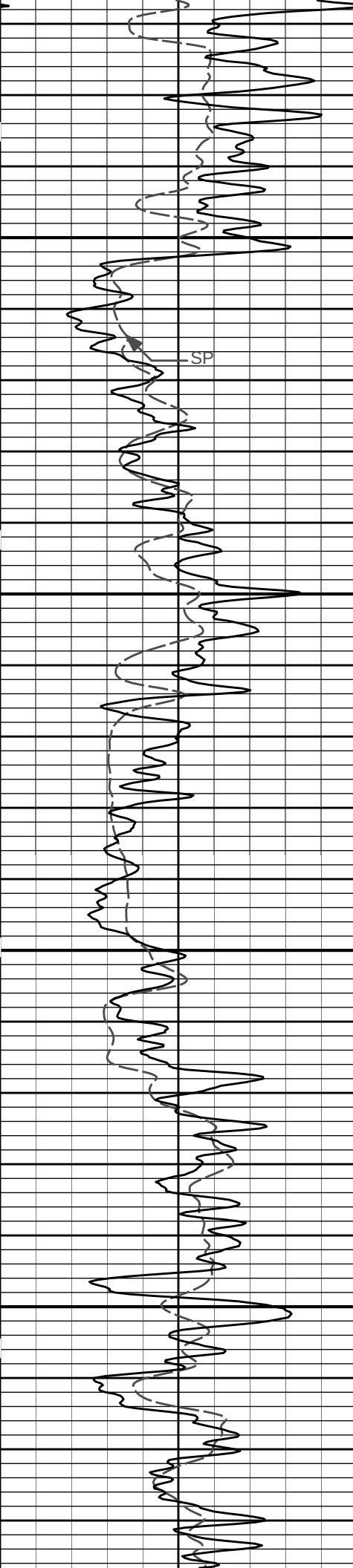




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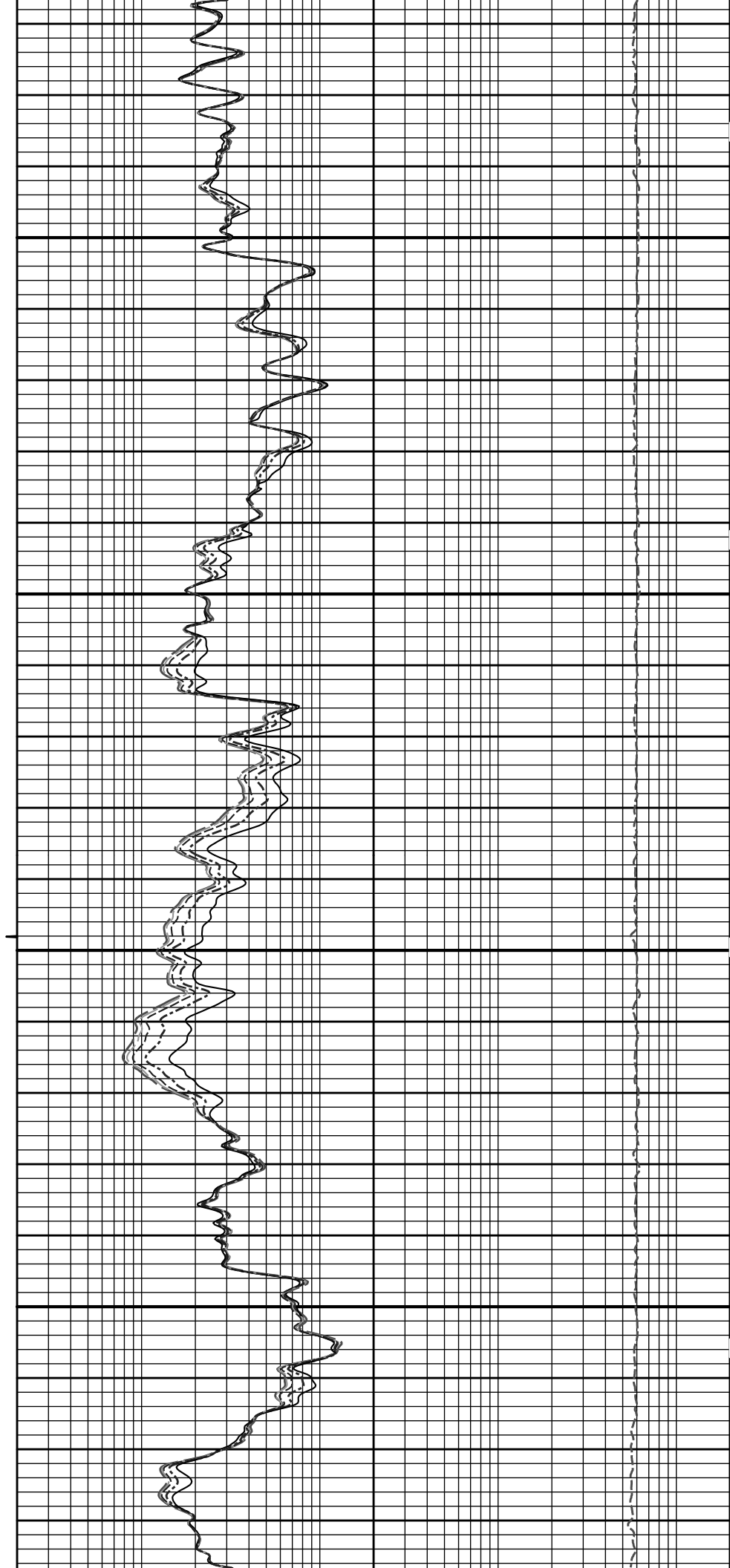
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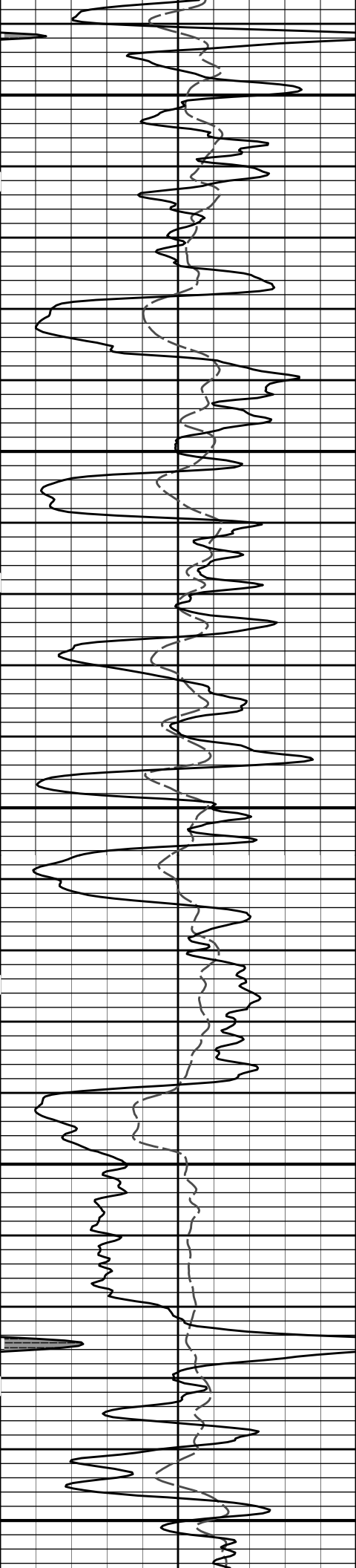




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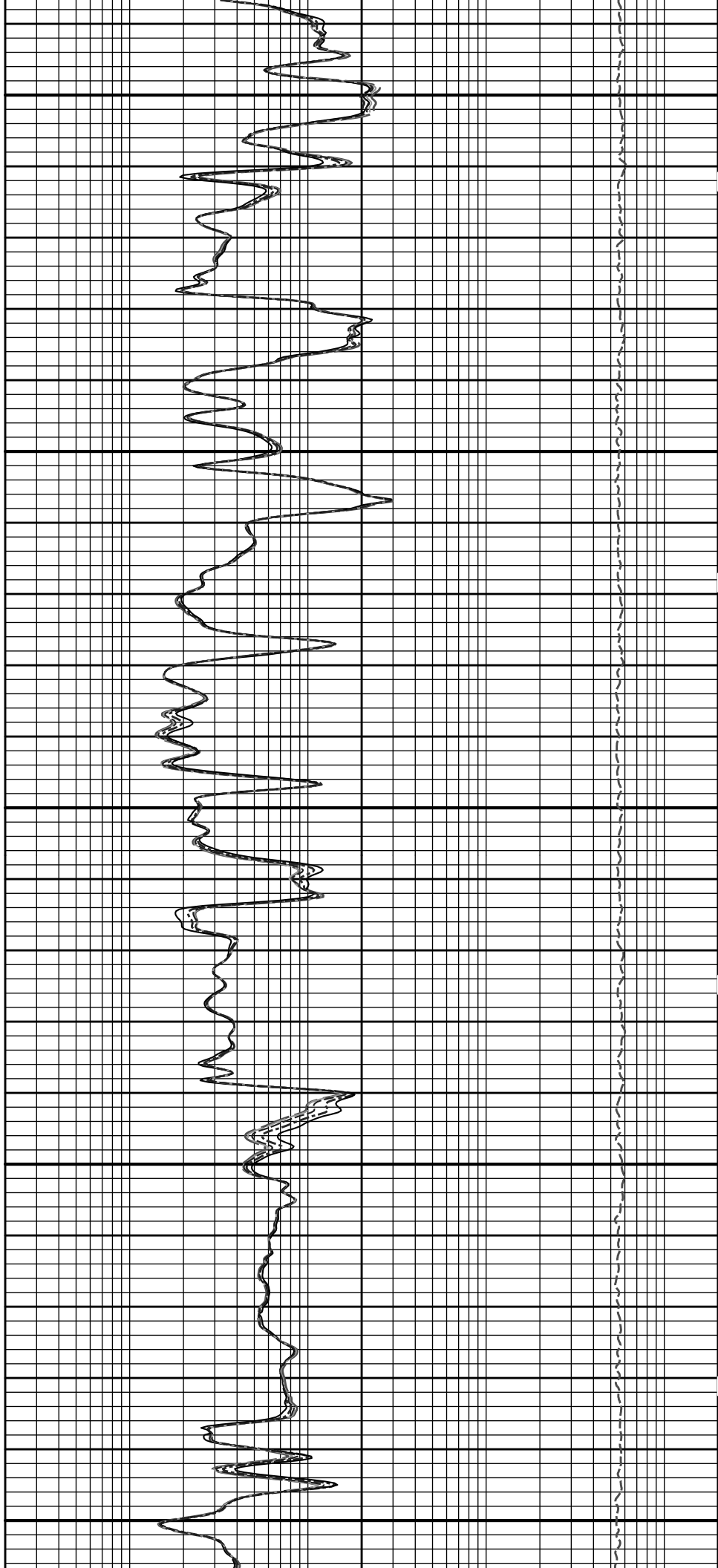


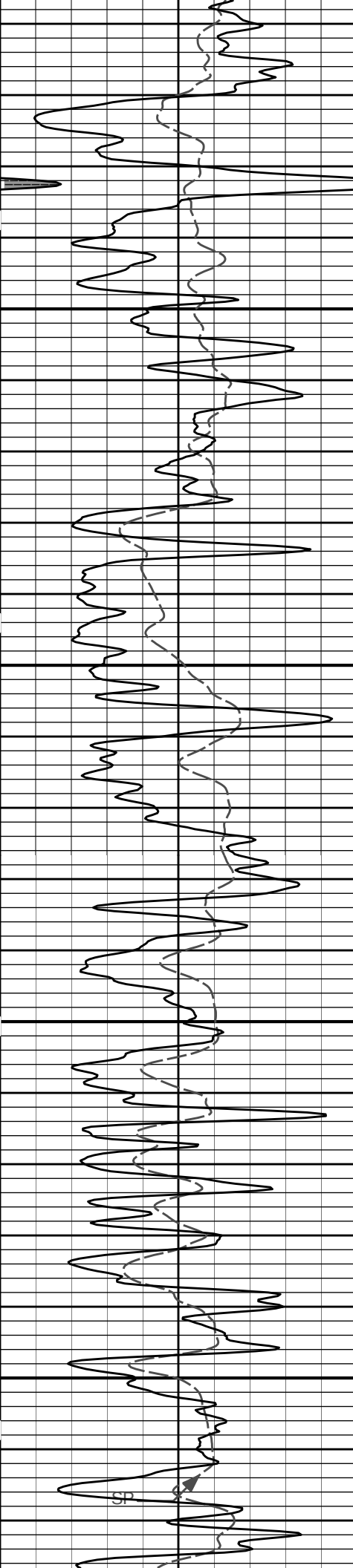


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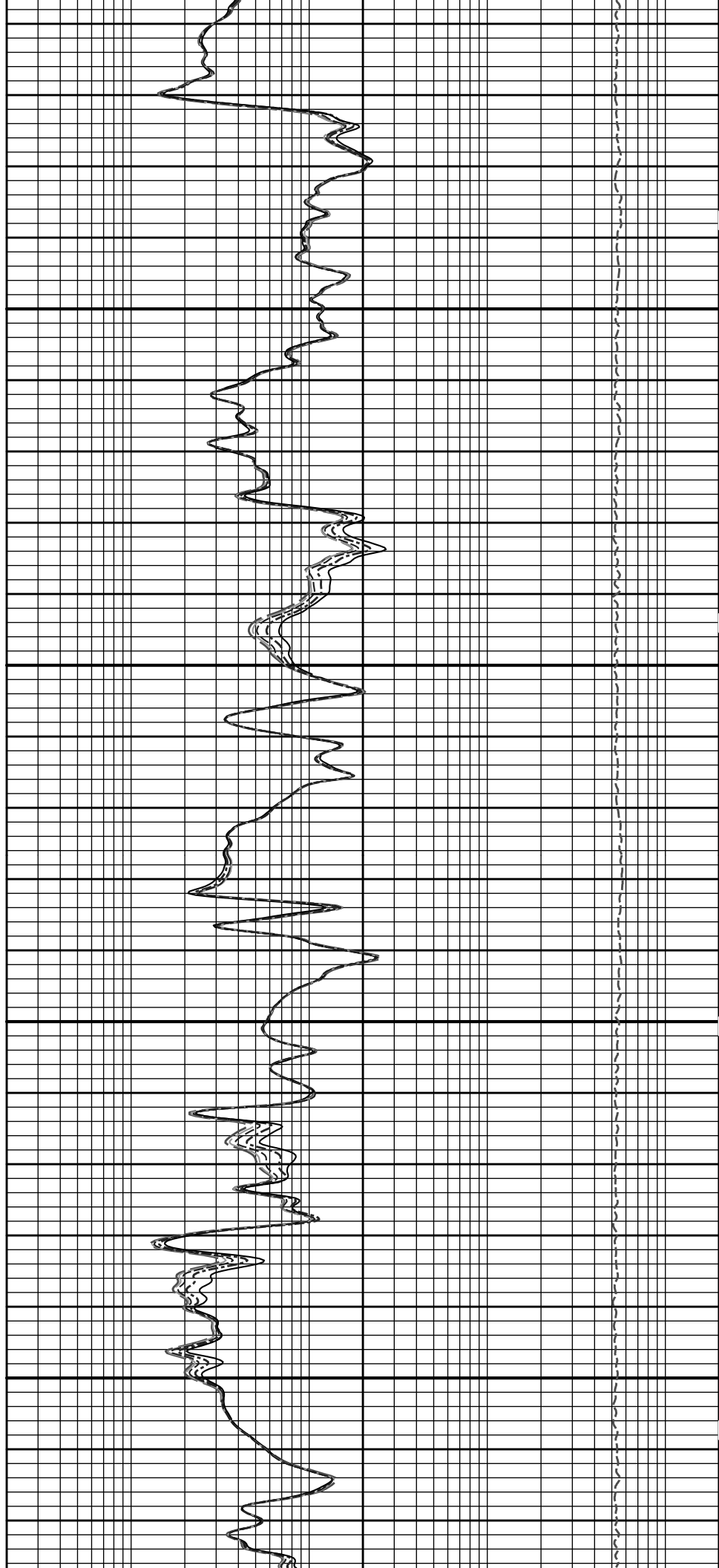
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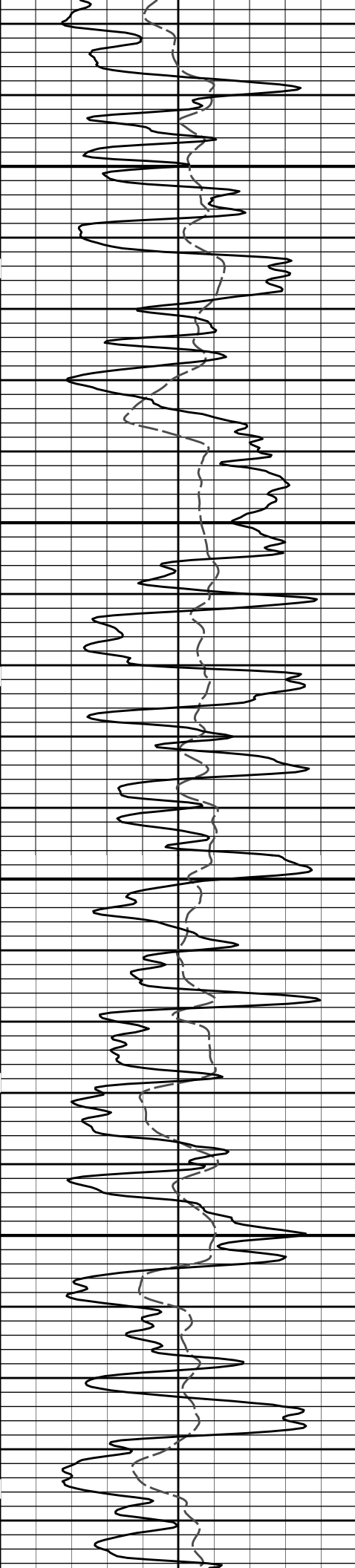




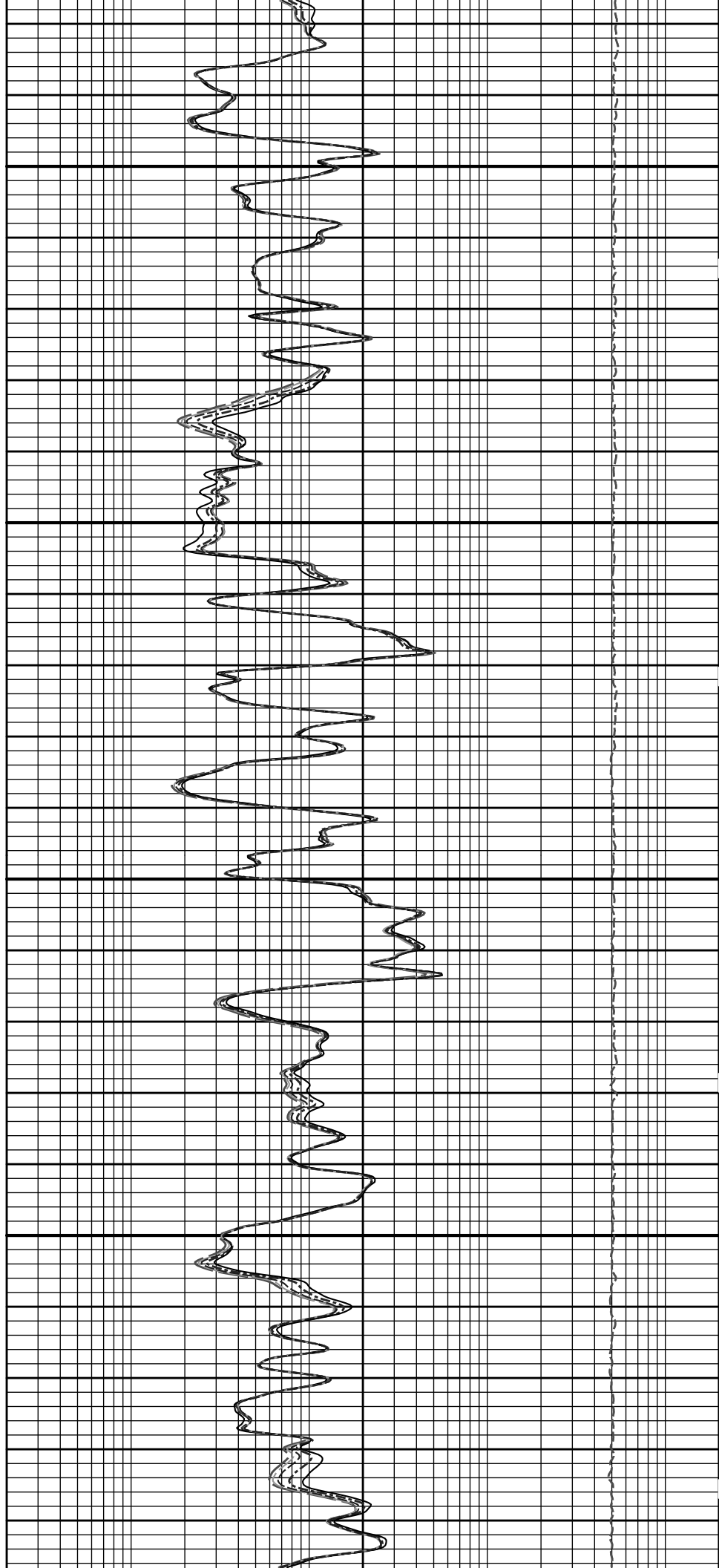
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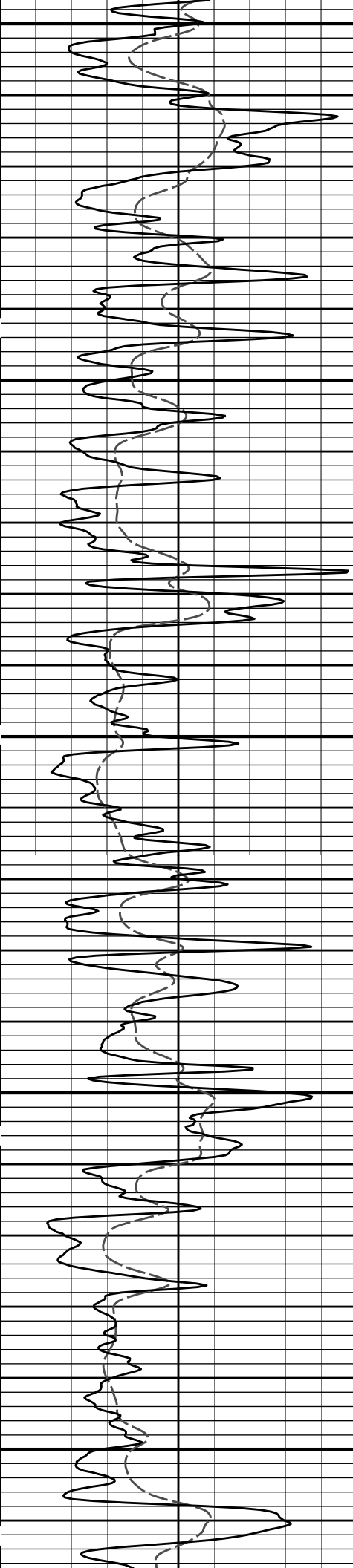




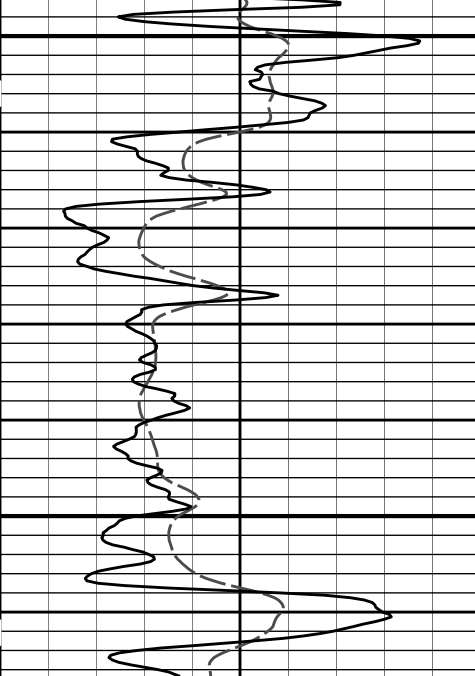
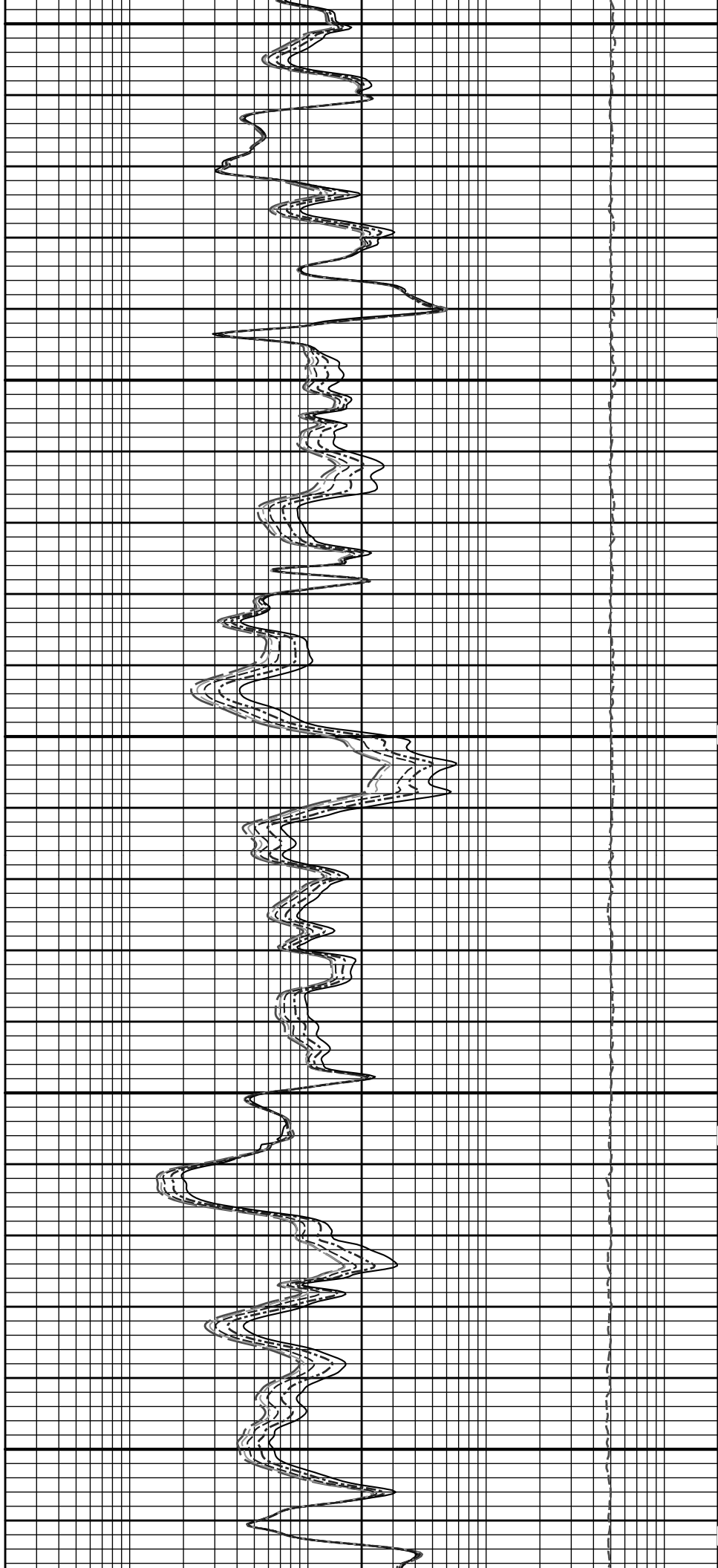
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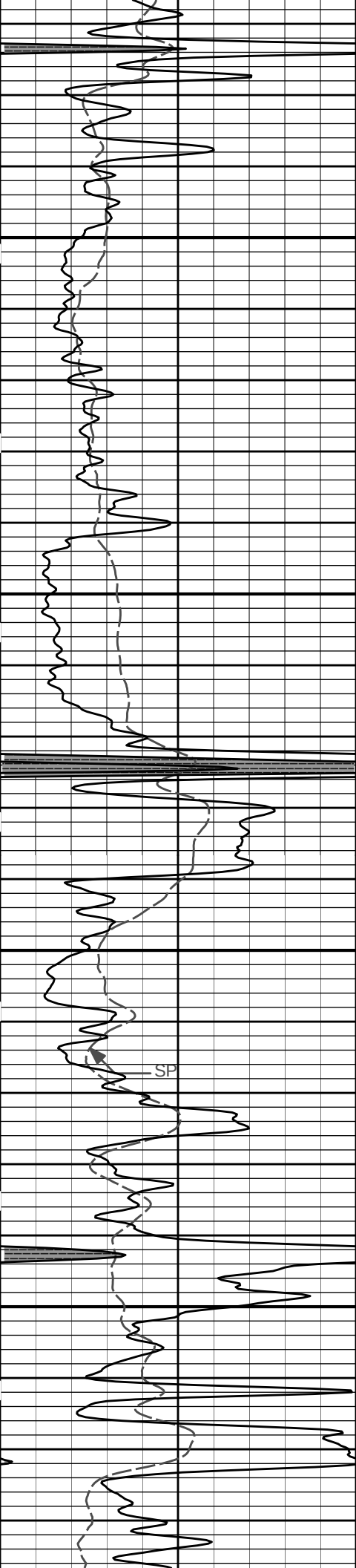
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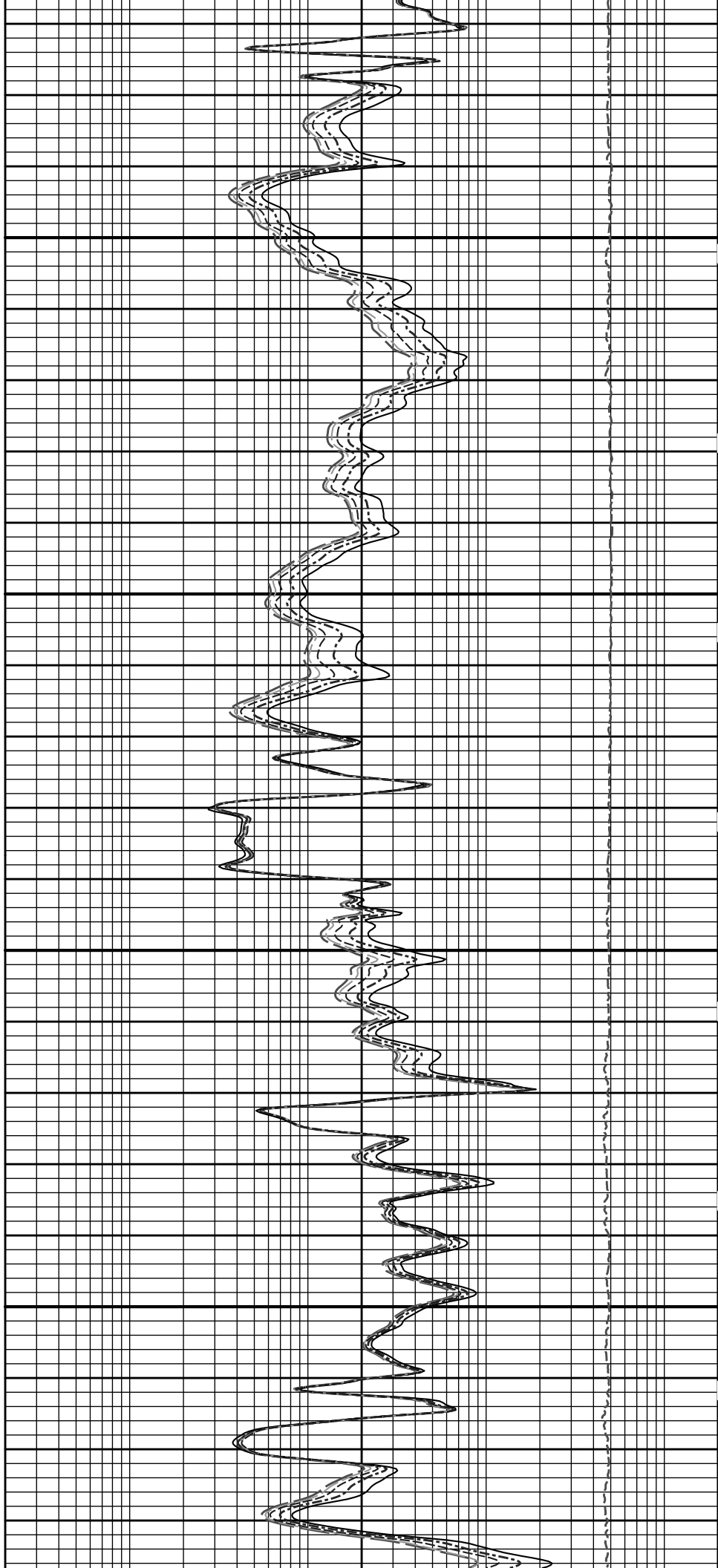


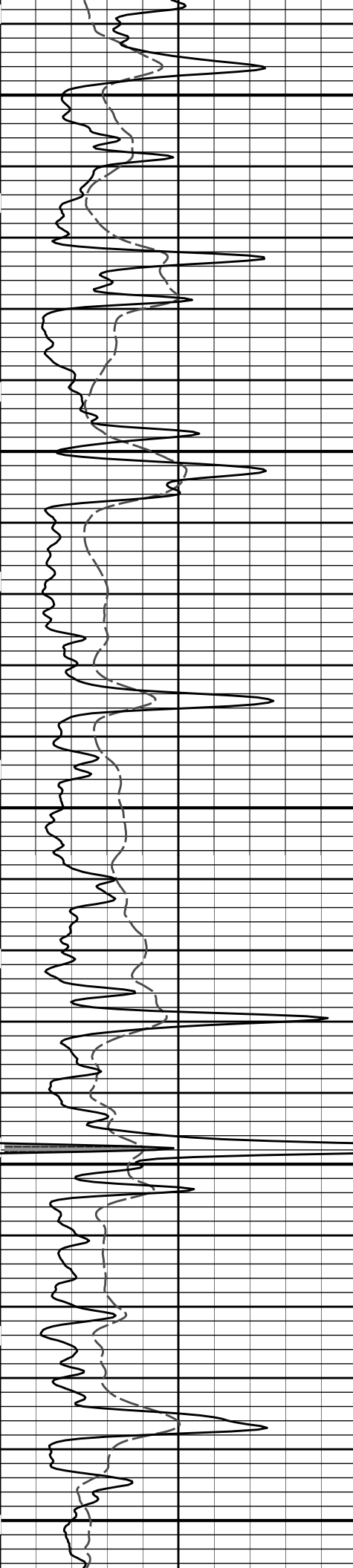
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3700

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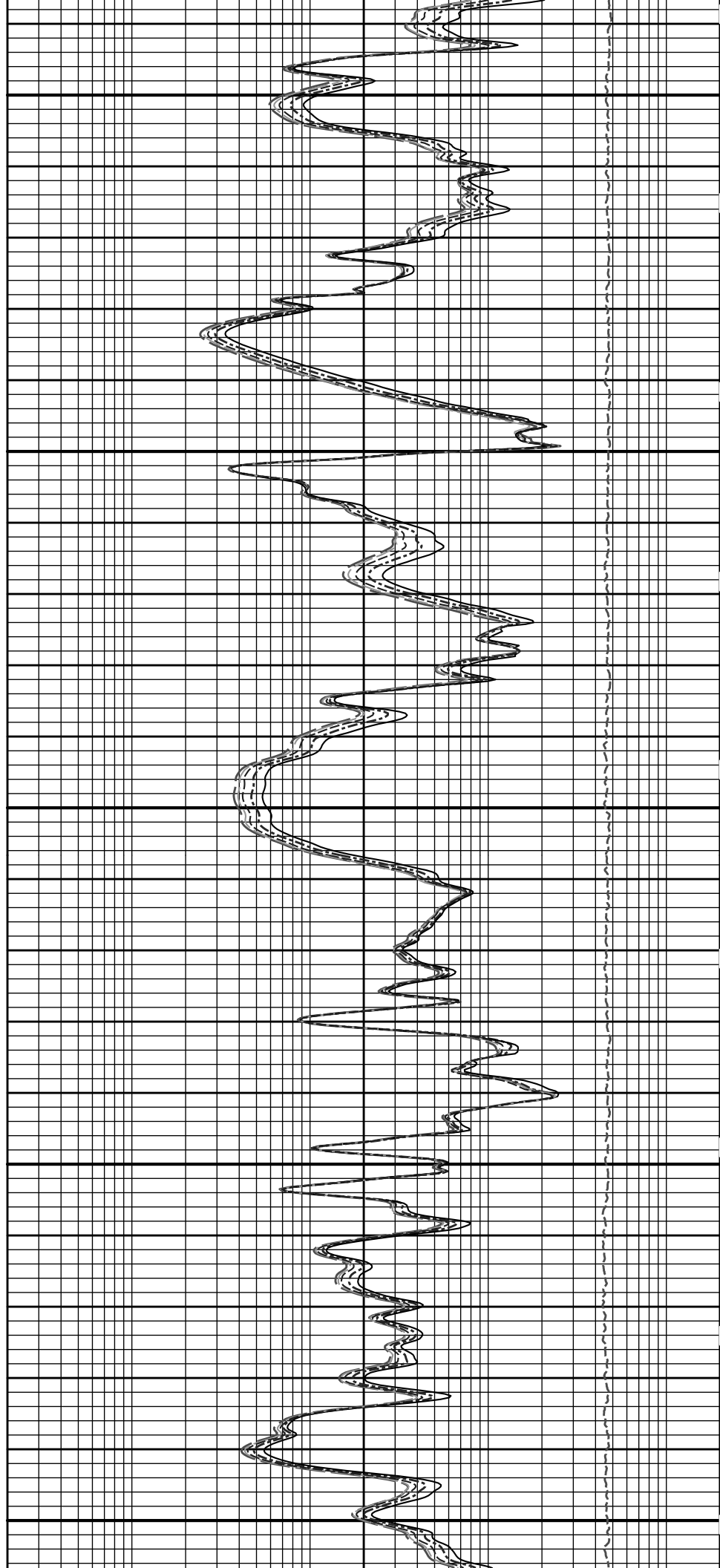


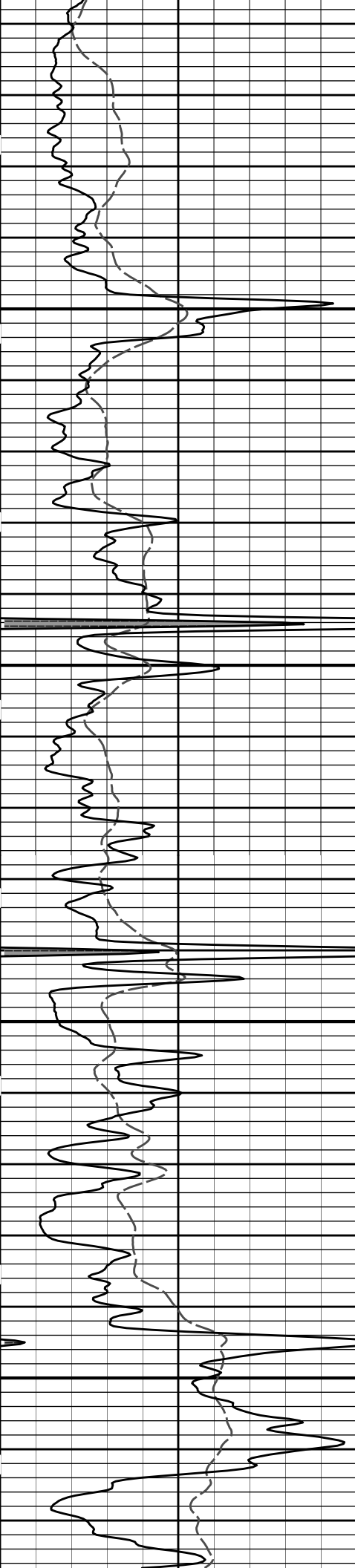


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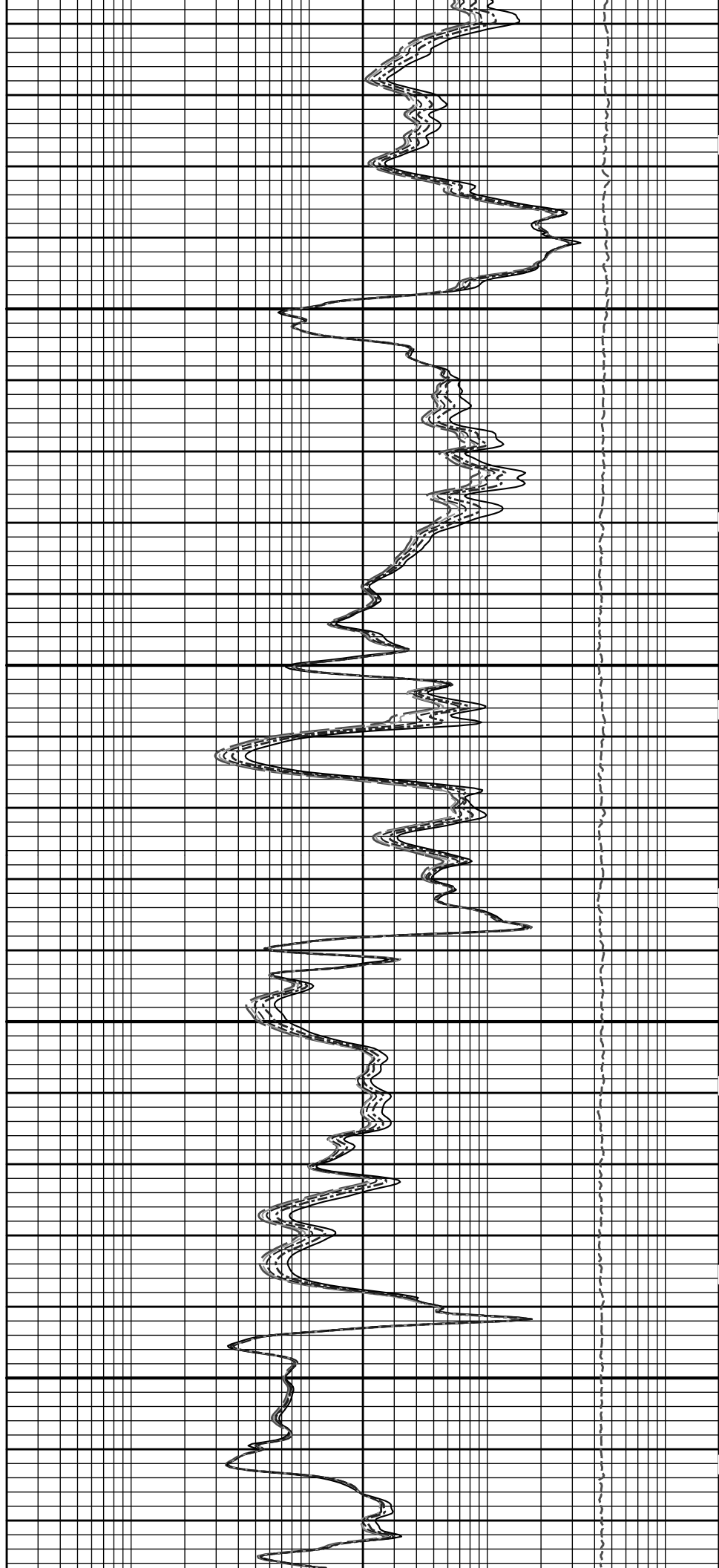
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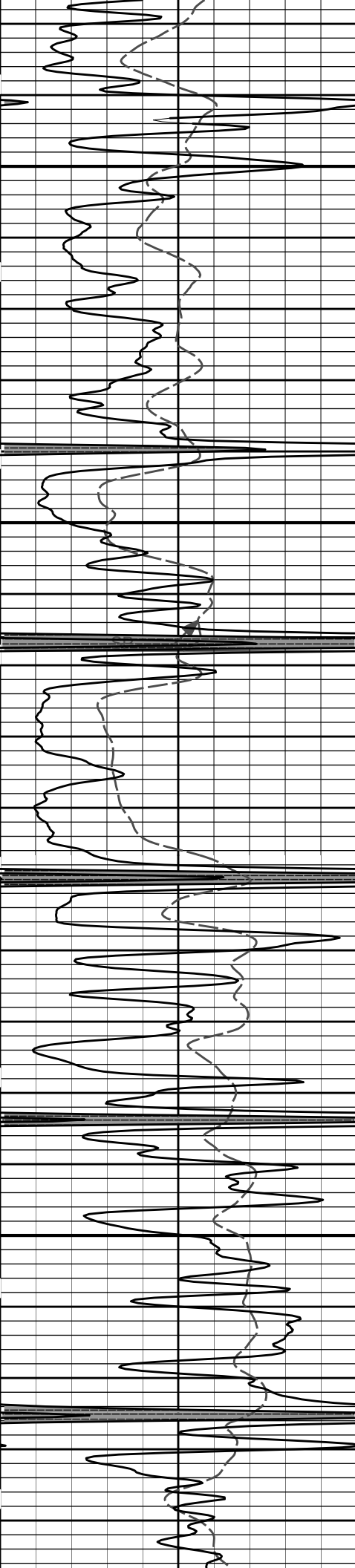




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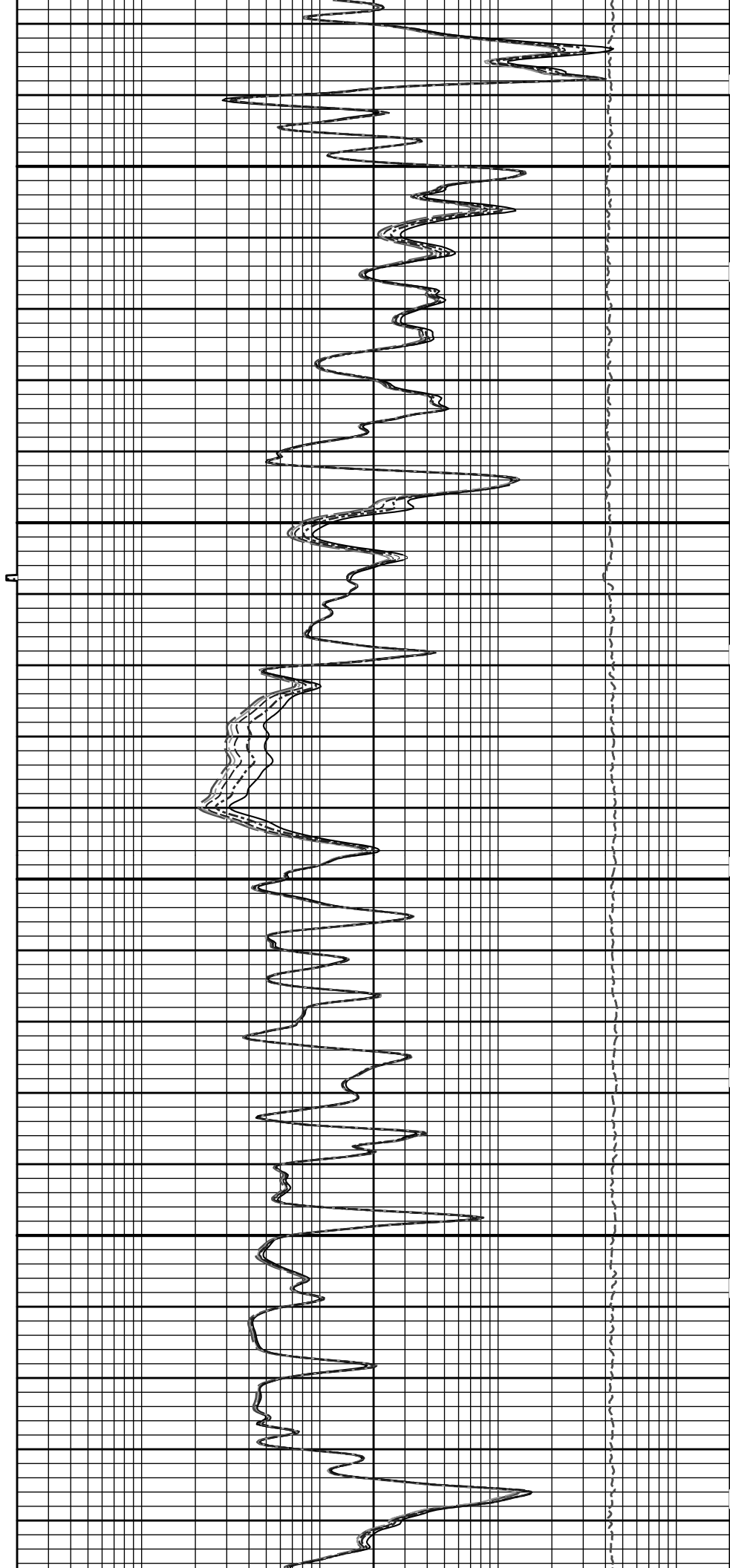
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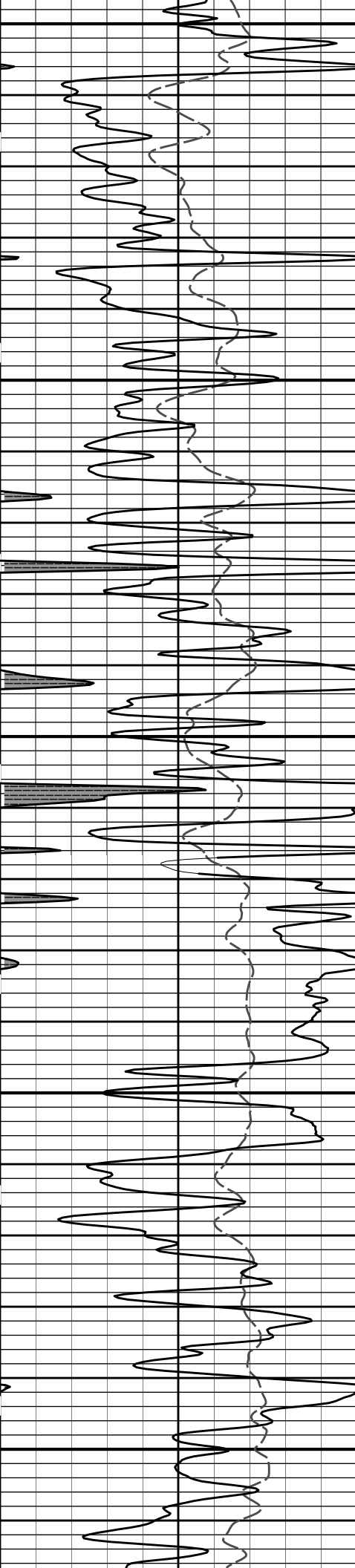




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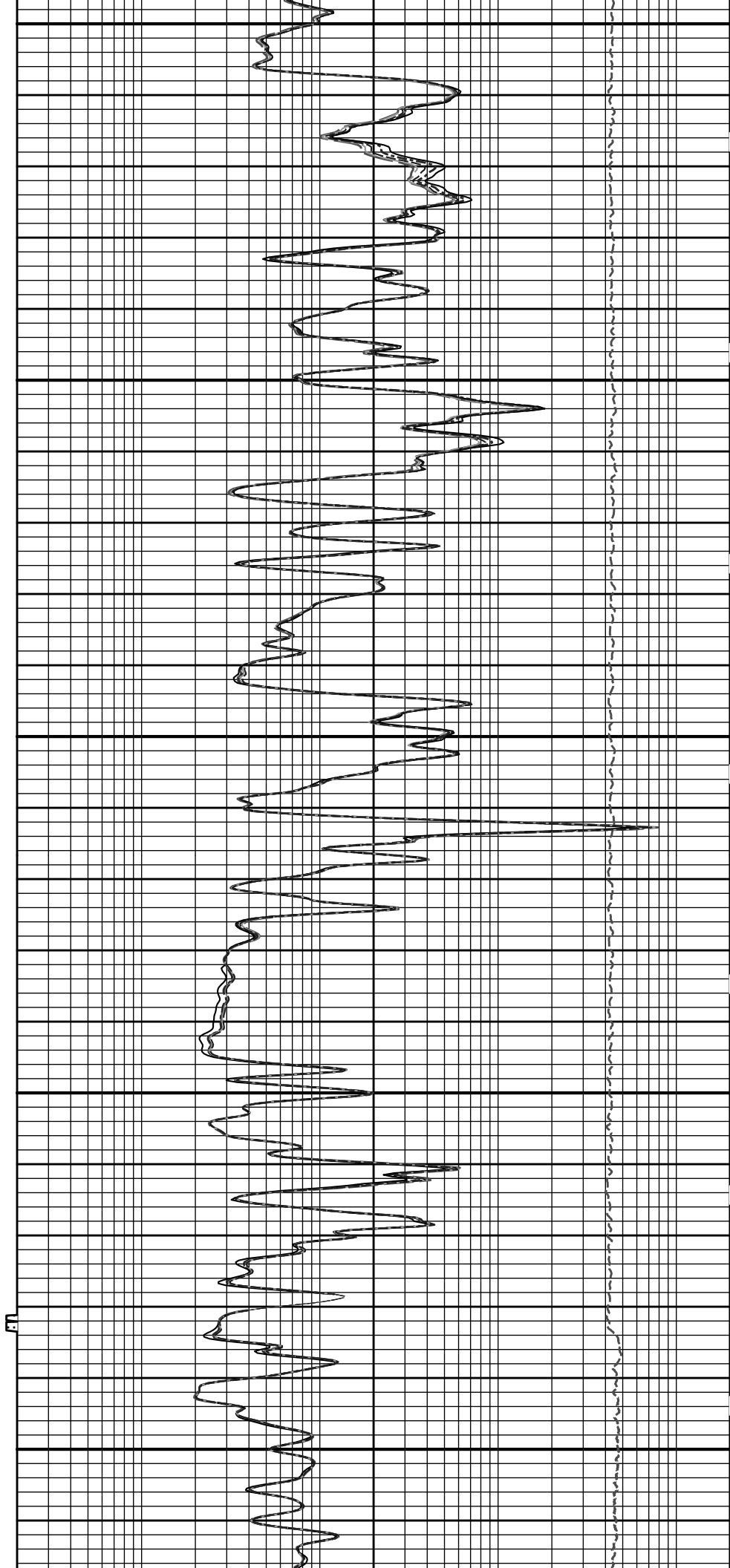
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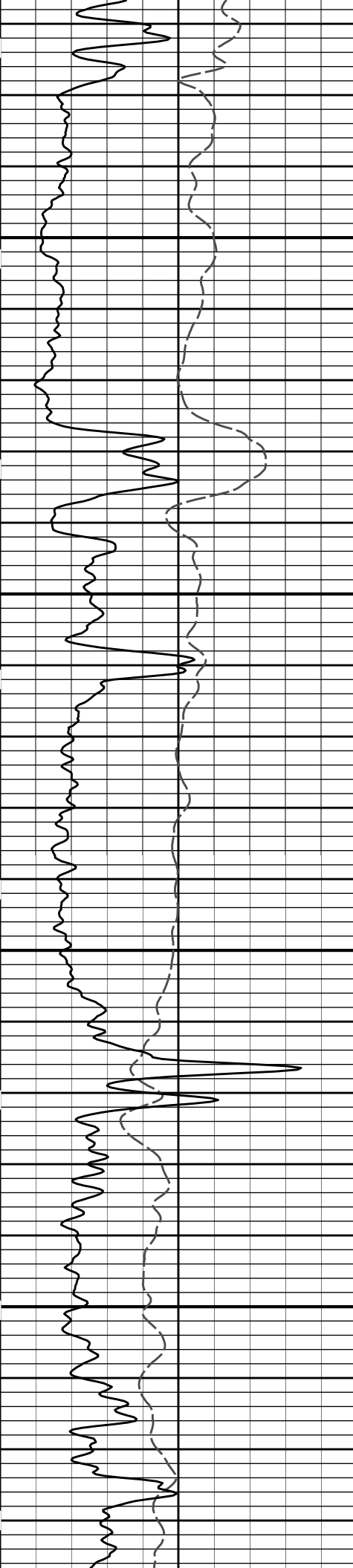




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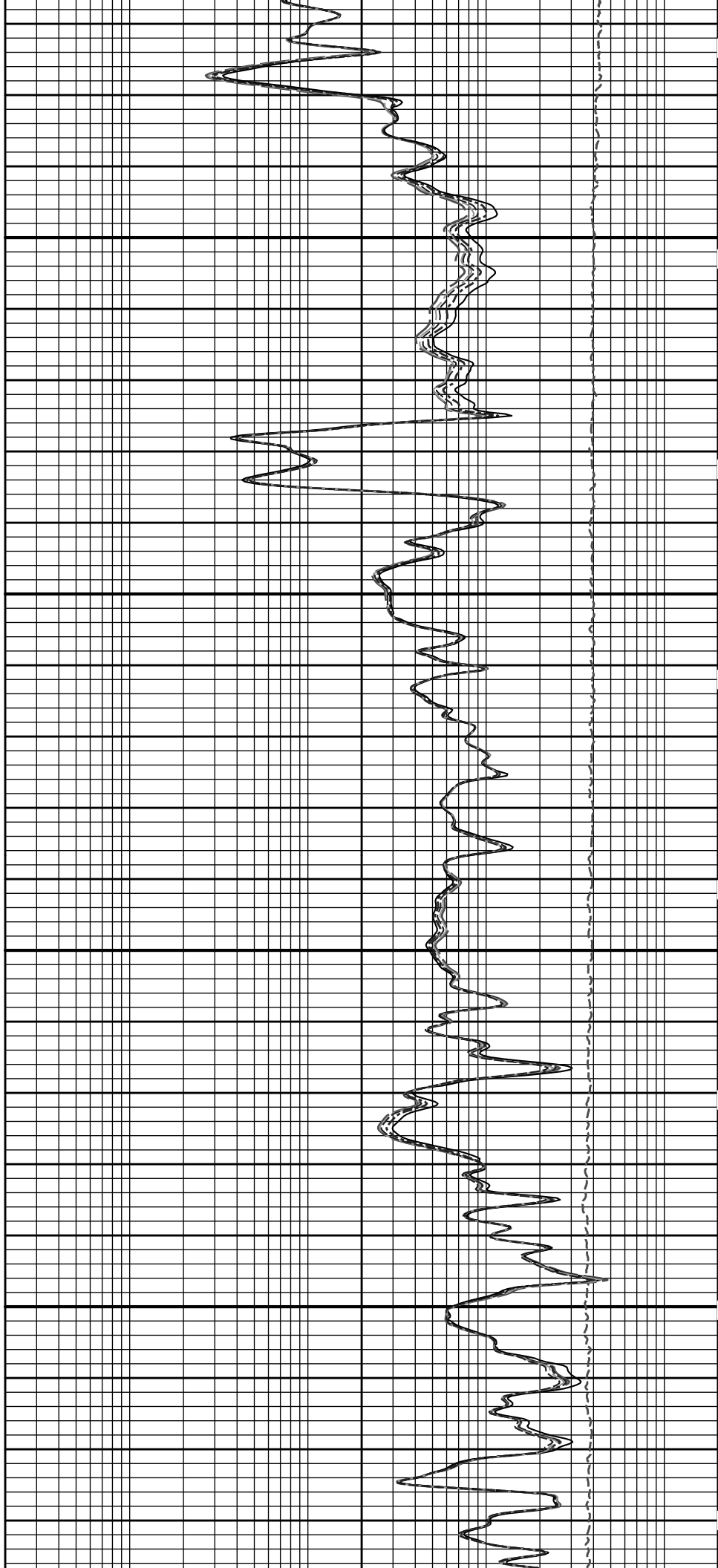
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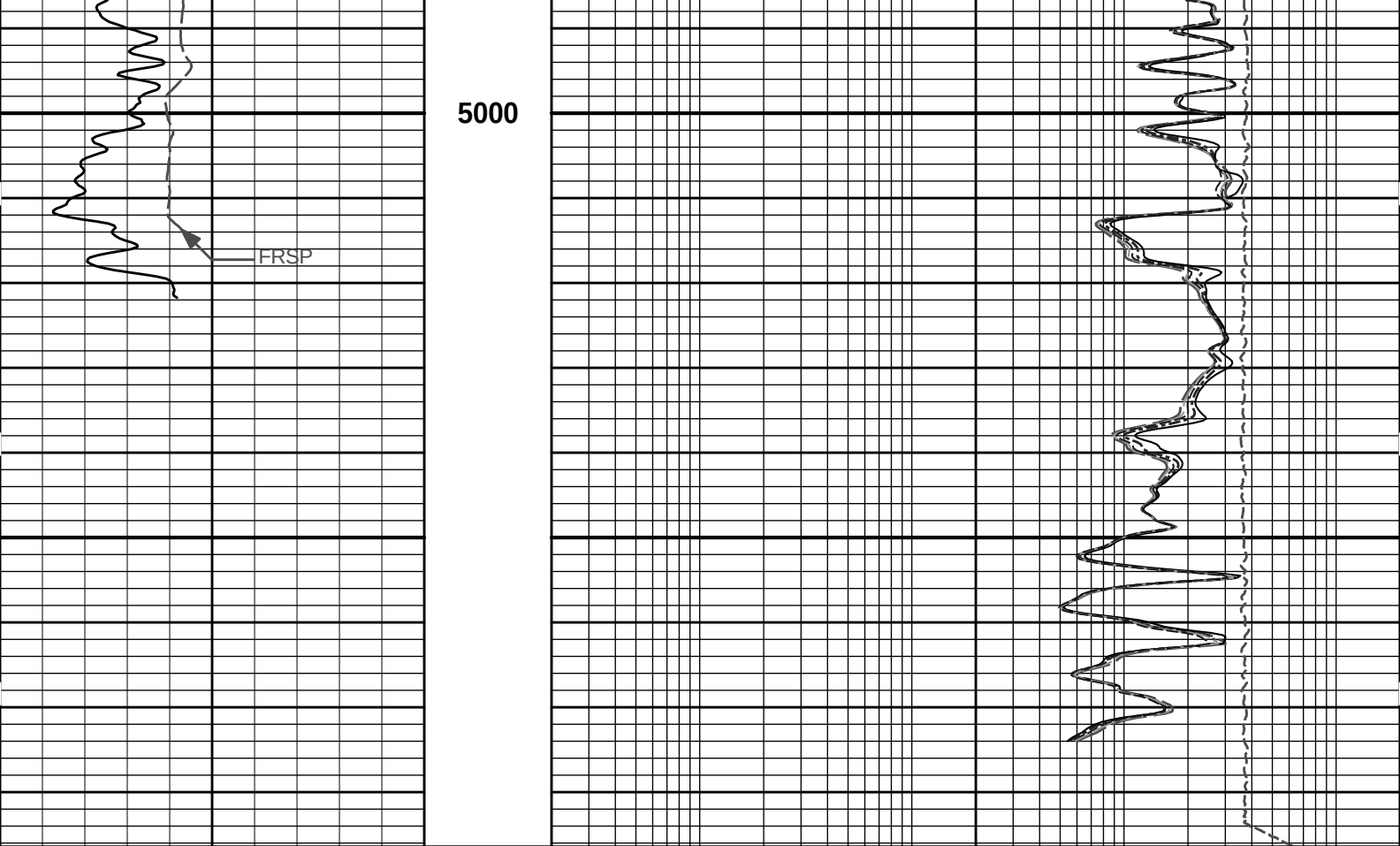




4800

4900





SP -]20[+		MD 1 : 240 ft Tension Pull 10 0	10K Tension pounds 0	
0	Gamma API 150		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

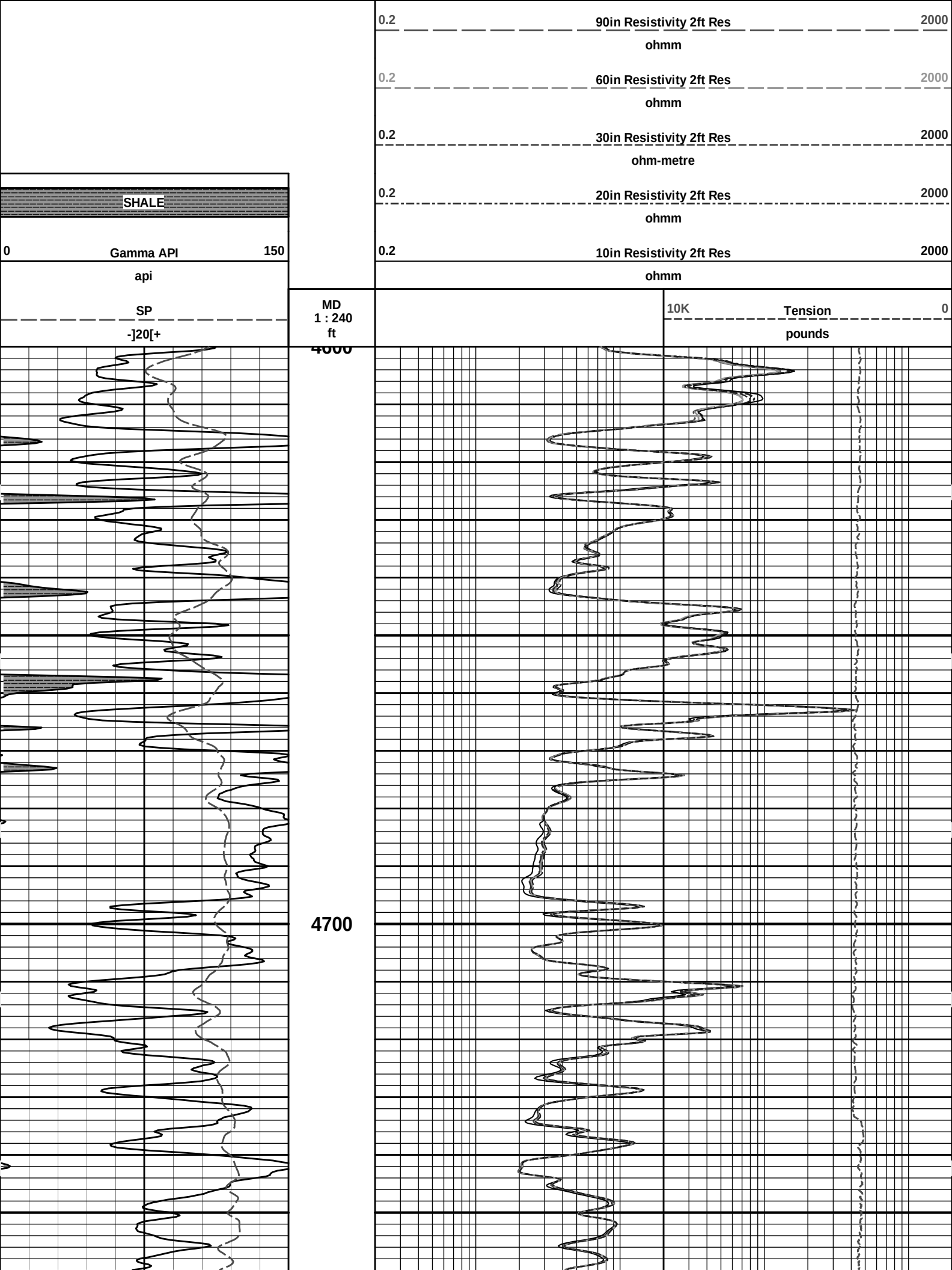
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Plot File: \\-LOCAL-IGARDEN_CITY_T_3\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHIACRT\ACRT_5_main_lib

5 INCH MAIN LOG

HALLIBURTON

Plot Time: 03-Mar-13 09:42:00
Plot Range: 4600 ft to 5086.5 ft
Data: GARDEN_CITY_T_3\Well Based\REPEAT_GARDEN_CITY\
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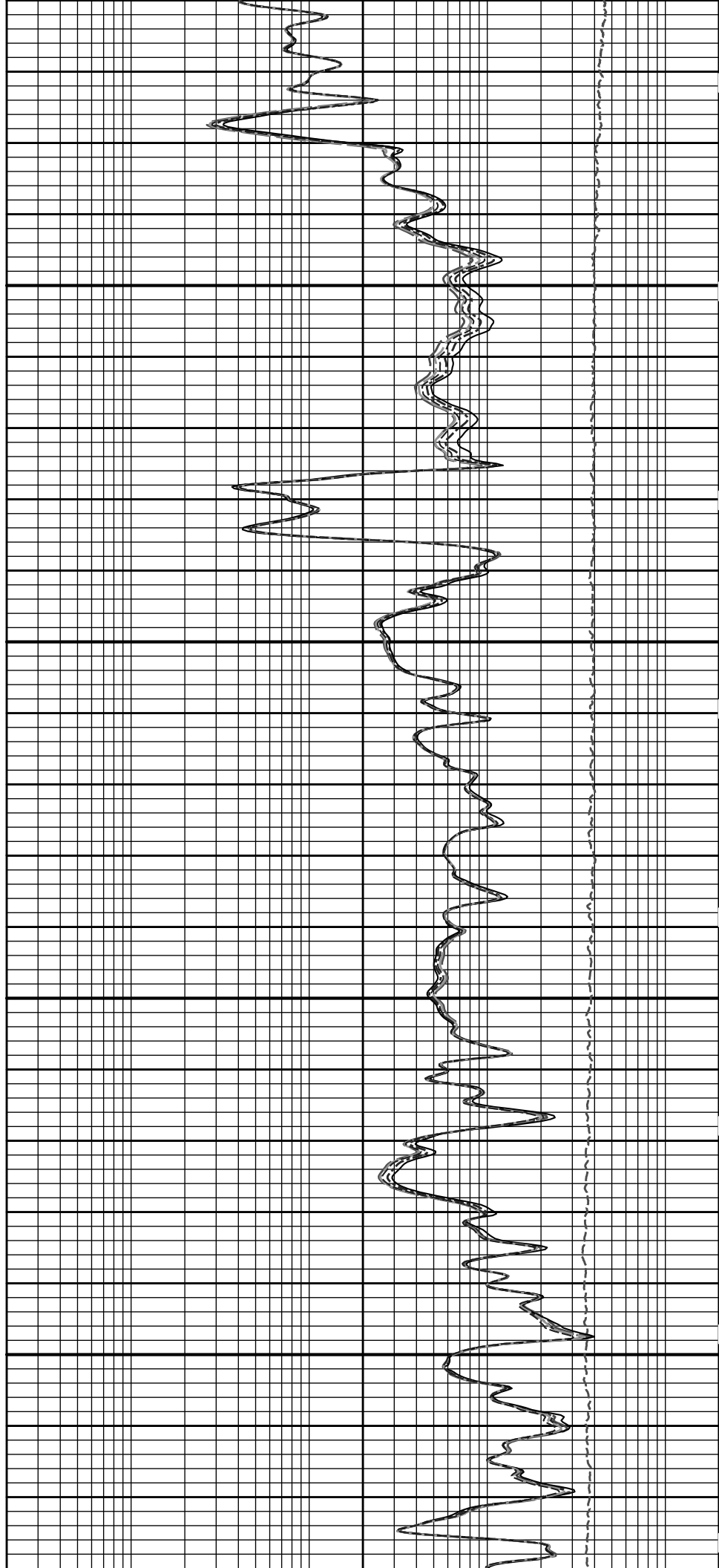
REPEAT SECTION

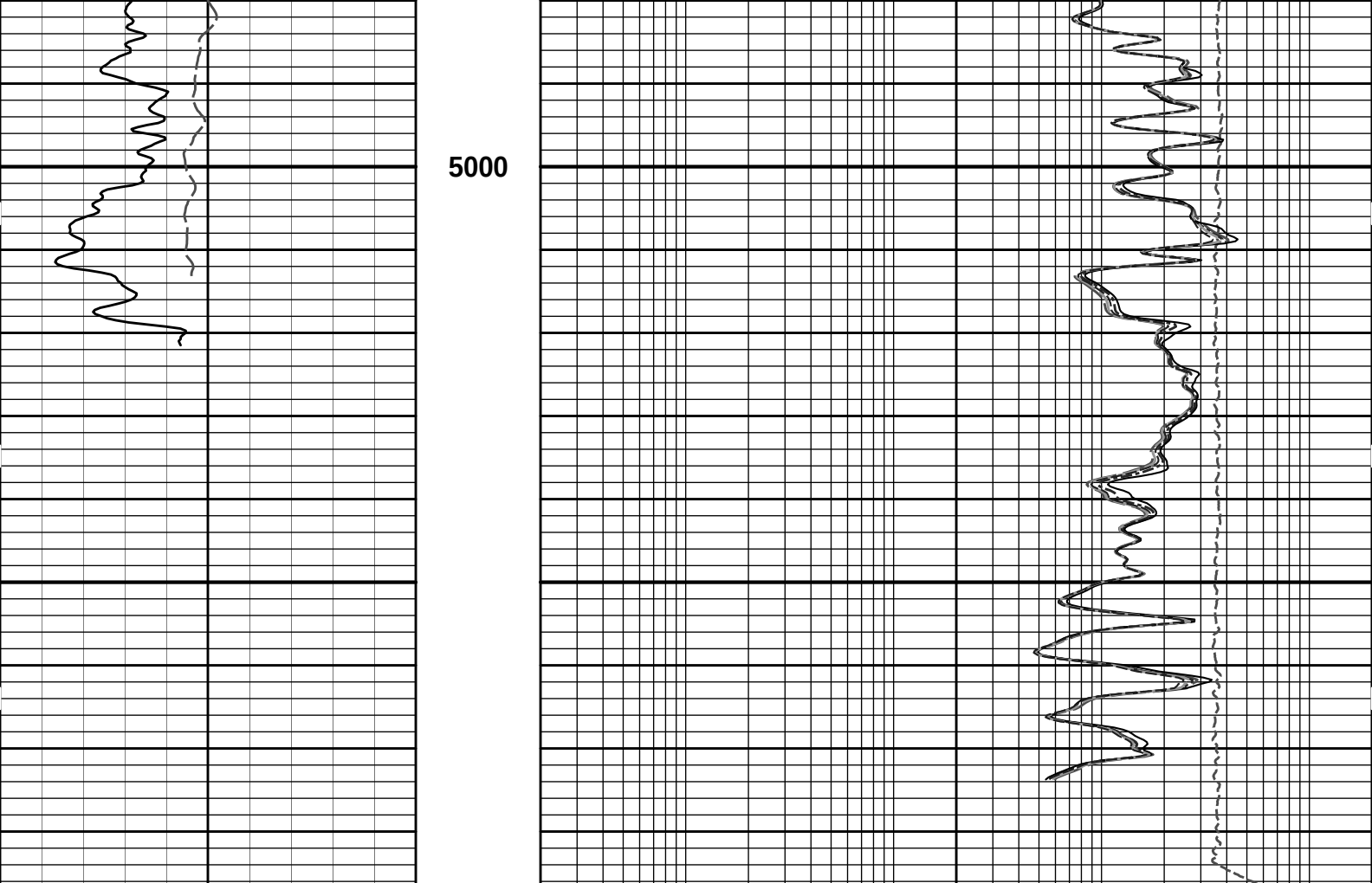




4800

4900





0	SP -]20[+	MD 1 : 240 ft	10K	Tension pounds	0
	Gamma API				
	api		0.2	10in Resistivity 2ft Res	2000
				ohmm	
			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: 03-Mar-13 09:42:01

Plot Range: 4600 ft to 5086.5 ft

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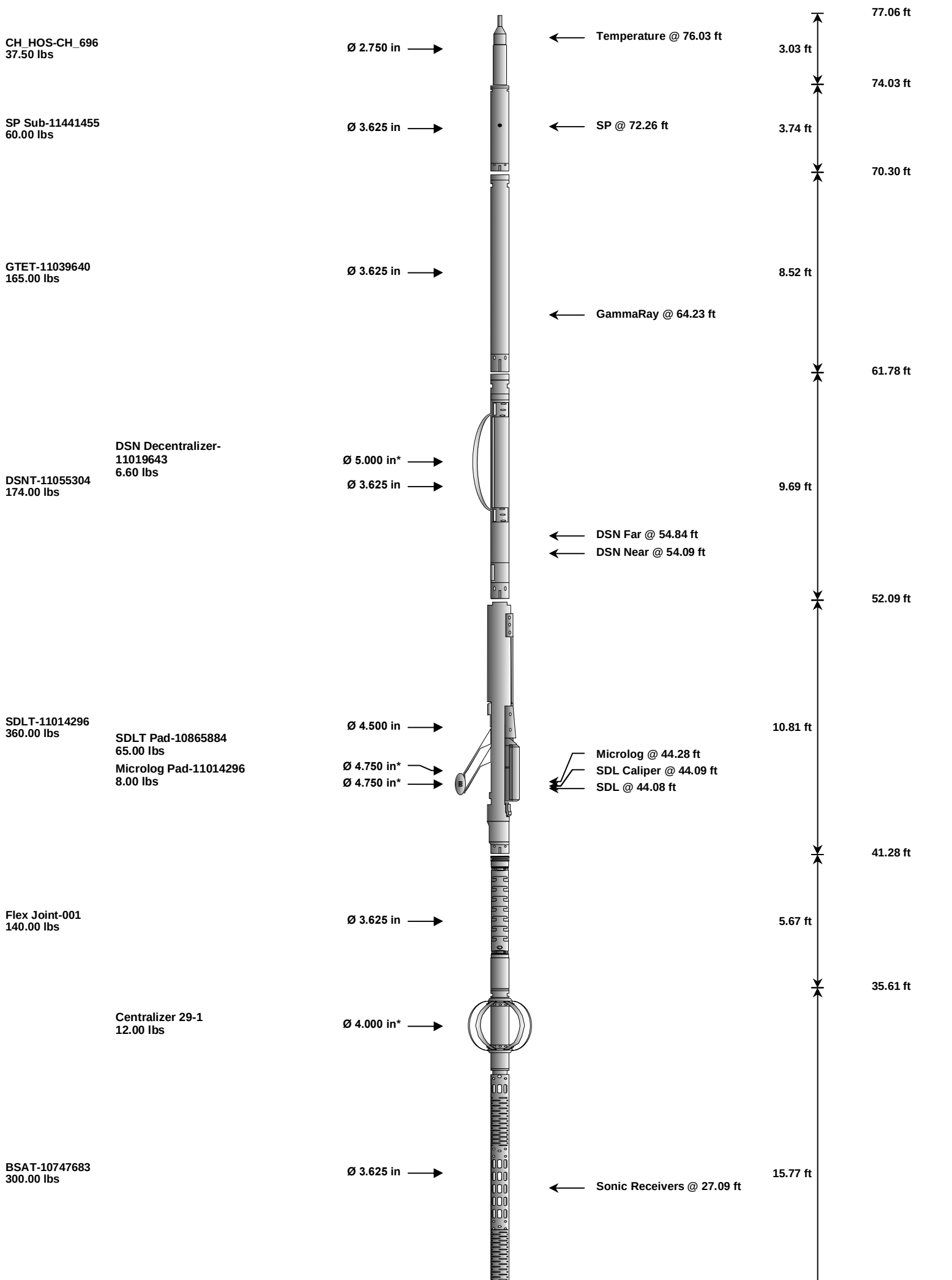
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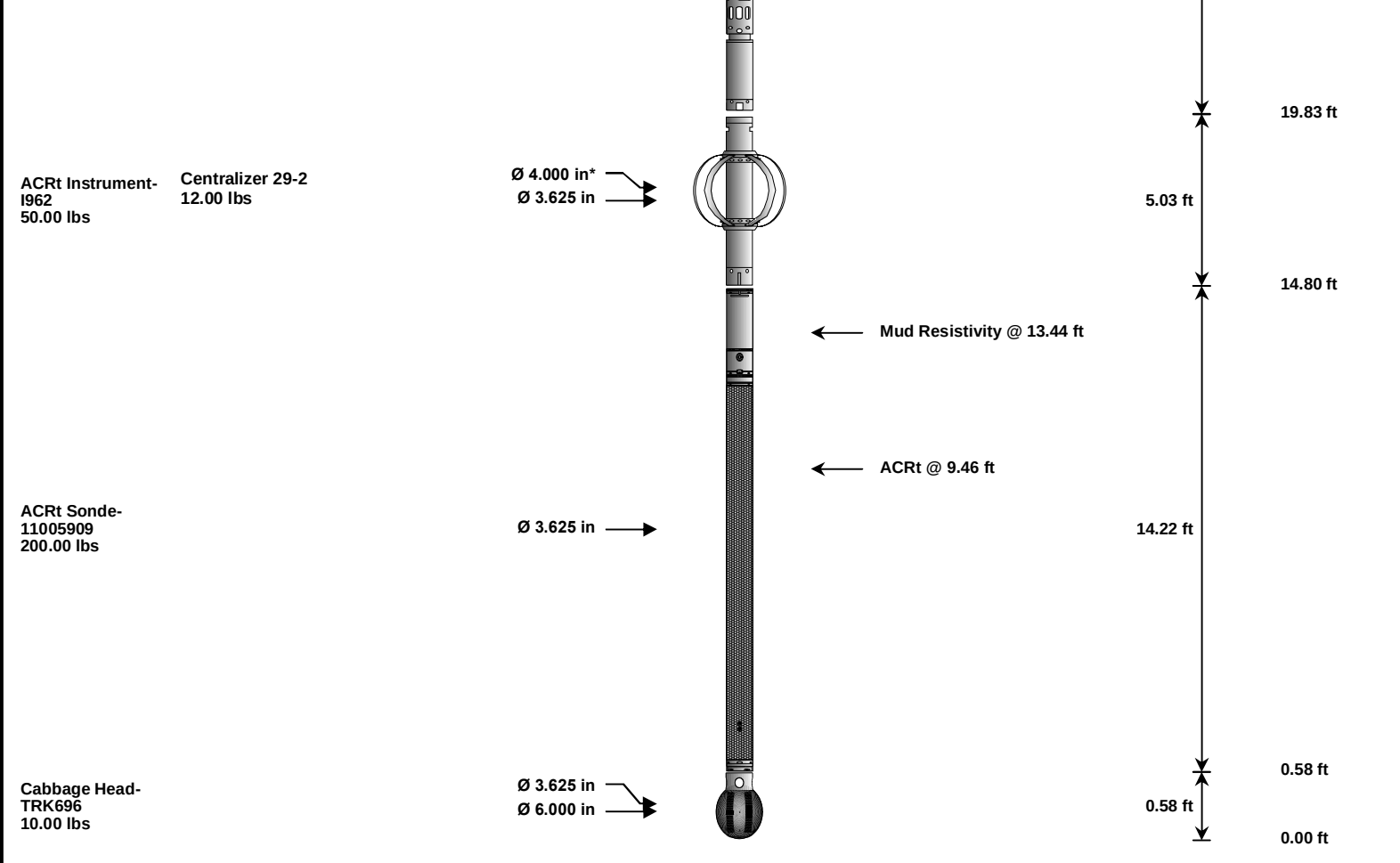
REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
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Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)	
CH_HOS	Hostile Cable Head with Load Cell	CH_696	37.50	3.03	74.03	300.00	
SP	SP Sub	11441455	60.00	3.74	70.30	300.00	
GTET	Gamma Telemetry Tool	11039640	165.00	8.52	61.78	60.00	
DSNT	Dual Spaced Neutron	11055304	174.00	9.69	52.09	60.00	
DCNT	DSN Decentralizer	11019643	6.60	5.13	*	55.42	300.00
SDLT	Spectral Density Tool	11014296	360.00	10.81	41.28	60.00	
MICP	Microlog Pad	11014296	8.00	1.00	*	43.78	60.00
SDLP	Density Insite Pad	10865884	65.00	2.55	*	43.49	60.00
FLEX	Flex Joint	001	140.00	5.67	35.61	300.00	
BSAT	Borehole Sonic Array Tool	10747683	300.00	15.77	19.83	60.00	
OBCEN	Centralizer - 29 in.Overbody	1	12.00	2.42	*	32.77	300.00
ACRt	Array Compensated True Resistivity Instrument Section	1962	50.00	5.03	14.80	300.00	
OBCEN	Centralizer - 29 in.Overbody	2	12.00	2.42	*	16.39	300.00
ACRt	Array Compensated True Resistivity Sonde Section	11005909	200.00	14.22	0.58	300.00	
CBHD	Cabbage Head	TRK696	10.00	0.58	0.00	300.00	
Total			1,600.10	77.06			
* Not included in Total Length and Length Accumulation.							
Data: GARDEN_CITY_T_310001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CH					IDLE Date: 03-Mar-13 06:59:08		

HALLIBURTON			
CALIBRATION REPORT			
NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11039640	Reference Calibration Date:	14-Jan-13 11:39:27
Engineer:	J. BOLLLOM	Calibration Date:	13-Feb-13 13:51:32
Software Version:	WL INSITE R3.8.0 (Build 2)	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	77.6	79.8	api
Background + Calibrator	339.7	349.5	api
Calibrator	262.1	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11039640	Reference Calibration Date:	13-Feb-13 13:51:32
Engineer:	J. BOLLUM	Calibration Date:	02-Mar-13 14:13:00
Software Version:	WL INSITE R3.8.0 (Build 2)	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	79.8	50.1	api
Background + Calibrator	349.5	318.0	api
Calibrator	269.6	267.9	api

Shop	Field	Difference	Tolerance
269.6	267.9	1.7	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 11005909	Reference Calibration Date:	31-Jan-13 14:33:59
Engineer:	J. BOLLUM	Calibration Date:	02-Mar-13 10:26:52
Software Version:	WL INSITE R3.8.0 (Build 2)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - I962		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.01	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A2 (50")	0.95	1.01	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A3 (29")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.00	1.05	0.95	1.00	1.05	0.95	1.00	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	1.00	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.99	1.05	0.95	0.99	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.55	2	-6	-3.56	-2	-8	-5.10	-2
A2 (50")	-7	-1.61	0	-7	-3.49	0	-7	-4.59	0
A3 (29")	-27	-14.61	-9	-9	-4.71	-3	-7	-2.75	-1
A4 (17")	-180	-100.99	-60	-45	-30.69	-15	-39	-25.67	-13
A5 (10")	N/A	N/A	N/A	-150	-99.76	-50	-80	-45.18	-10
A6 (6")	N/A	N/A	N/A	175	288.01	525	90	152.36	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.87	1.3

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

36K	1.0	1.35	2.0
72K	1.0	1.58	2.0
PASS/FAIL SUMMARY			
GAIN RANGE CHK			PASS
SONDE OFFSET RANGE CHK			PASS
Tx CURRENT GAIN			PASS
Rmud VERIFICATION			PASS
TOOL OK TO LOG			

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11039640						
Gamma Ray Calibrator	269.6	267.9	-----	1.7	+/- 9.00	api
ACRt Sonde-11005909						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: GARDEN_CITY_T_3I0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHIDLE					Date: 03-Mar-13 07:23:11	

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	Borehole Fluid Weight	9.300	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	5102.00	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 /				

	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
	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	DNSO	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 Upr	
	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: GARDEN_CITY_T_3I0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHIDLE				Date: 03-Mar-13 07:22:59	

HALLIBURTON				
INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	

CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	72.25	NO	
SP	Spontaneous Potential	72.25	BLK	1.250
SPR	Raw Spontaneous Potential	72.25	NO	
SPO	Spontaneous Potential Offset	72.25	NO	
GTET				
TPUL	Tension Pull	64.23	NO	
GR	Natural Gamma Ray API	64.23	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	64.23	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	64.23	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	53.99	NO	
RNDS	Near Detector Telemetry Counts	54.09	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.84	TRI	0.583
DNTT	DSN Tool Temperature	54.09	NO	
DSNS	DSN Tool Status	53.99	NO	
ERND	Near Detector Telemetry Counts EVR	54.09	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.84	BLK	0.000
ENTM	DSN Tool Temperature EVR	54.09	NO	
SDLT				
TPUL	Tension Pull	44.09	NO	
PCAL	Pad Caliper	44.09	TRI	0.250
ACAL	Arm Caliper	44.09	TRI	0.250
BSAT				
TPUL	Tension Pull	27.09	NO	
STAT	Status	27.09	NO	
DLYT	Delay Time	27.09	NO	
SI	Sample Interval	27.09	NO	
TXRX	Raw Telemetry 10 Receivers	27.09	NO	
FRMC	Tool Frame Count	27.09	NO	
GMOD	Gain processing mode	19.83	NO	
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F0R1	ACRT 20KHz - 80in R value	9.22	BLK	0.000
F0X1	ACRT 20KHz - 80in X value	9.22	BLK	0.000
F0R2	ACRT 20KHz - 50in R value	6.72	BLK	0.000
F0X2	ACRT 20KHz - 50in X value	6.72	BLK	0.000
F0R3	ACRT 20KHz - 29in R value	5.22	BLK	0.000
F0X3	ACRT 20KHz - 29in X value	5.22	BLK	0.000
F0R4	ACRT 20KHz - 17in R value	4.22	BLK	0.000
F0X4	ACRT 20KHz - 17in X value	4.22	BLK	0.000
F0R5	ACRT 20KHz - 10in R value	3.72	BLK	0.000
F0X5	ACRT 20KHz - 10in X value	3.72	BLK	0.000
F0R6	ACRT 20KHz - 6in R value	3.47	BLK	0.000
F0X6	ACRT 20KHz - 6in X value	3.47	BLK	0.000

F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Current Raw 12K X Receiver	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	
SDLT Pad				
TPUL	Tension Pull	44.08	NO	
NAB	Near Above	43.90	BLK	0.920
NHI	Near Cesium High	43.90	BLK	0.920
NLO	Near Cesium Low	43.90	BLK	0.920
NVA	Near Valley	43.90	BLK	0.920
NBA	Near Barite	43.90	BLK	0.920
NDE	Near Density	43.90	BLK	0.920
NPK	Near Peak	43.90	BLK	0.920
NLI	Near Lithology	43.90	BLK	0.920
NBAU	Near Barite Unfiltered	43.90	BLK	0.250
NLIU	Near Lithology Unfiltered	43.90	BLK	0.250
FAB	Far Above	44.26	BLK	0.250
FHI	Far Cesium High	44.26	BLK	0.250
FLO	Far Cesium Low	44.26	BLK	0.250
EVA	Far Valley	44.26	BLK	0.250

FBA	Far Barite	44.26	BLK	0.250
FDE	Far Density	44.26	BLK	0.250
FPK	Far Peak	44.26	BLK	0.250
FLI	Far Lithology	44.26	BLK	0.250
PTMP	Pad Temperature	44.09	BLK	0.920
NHV	Near Detector High Voltage	43.49	NO	
FHV	Far Detector High Voltage	43.49	NO	
ITMP	Instrument Temperature	43.49	NO	
DDHV	Detector High Voltage	43.49	NO	

Microlog Pad

TPUL	Tension Pull	44.28	NO	
MINV	Microlog Lateral	44.28	BLK	0.750
MNOR	Microlog Normal	44.28	BLK	0.750

Data: GARDEN_CITY_T_3\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CH\IDLE

Date: 03-Mar-13 07:22:40

COMPANY	OXY USA INC			
WELL	GARDEN CITY T-3			
FIELD	HUGOTON GAS AREA			
COUNTY	FINNEY	STATE	KANSAS	

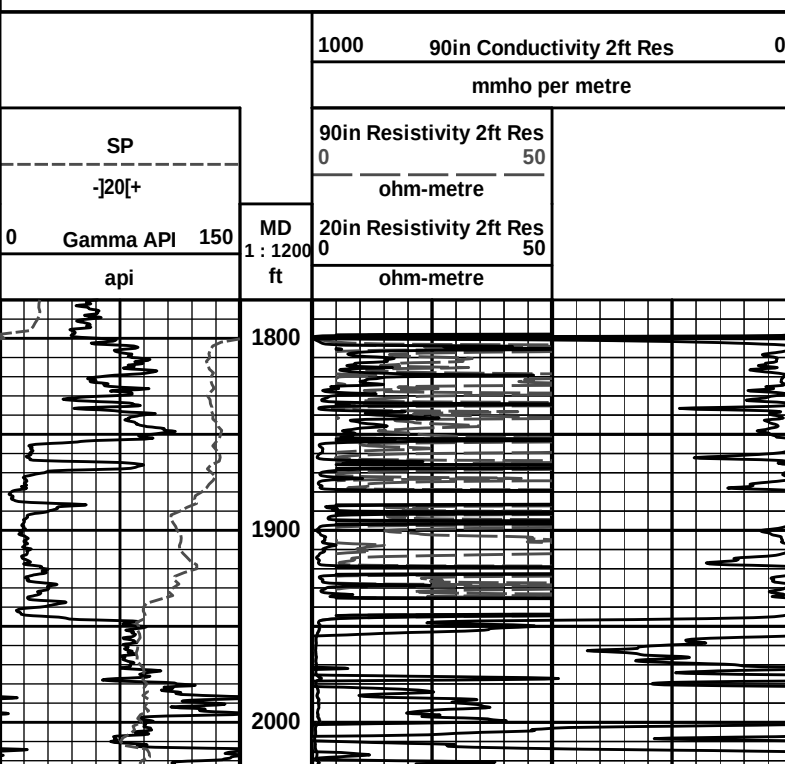
HALLIBURTON

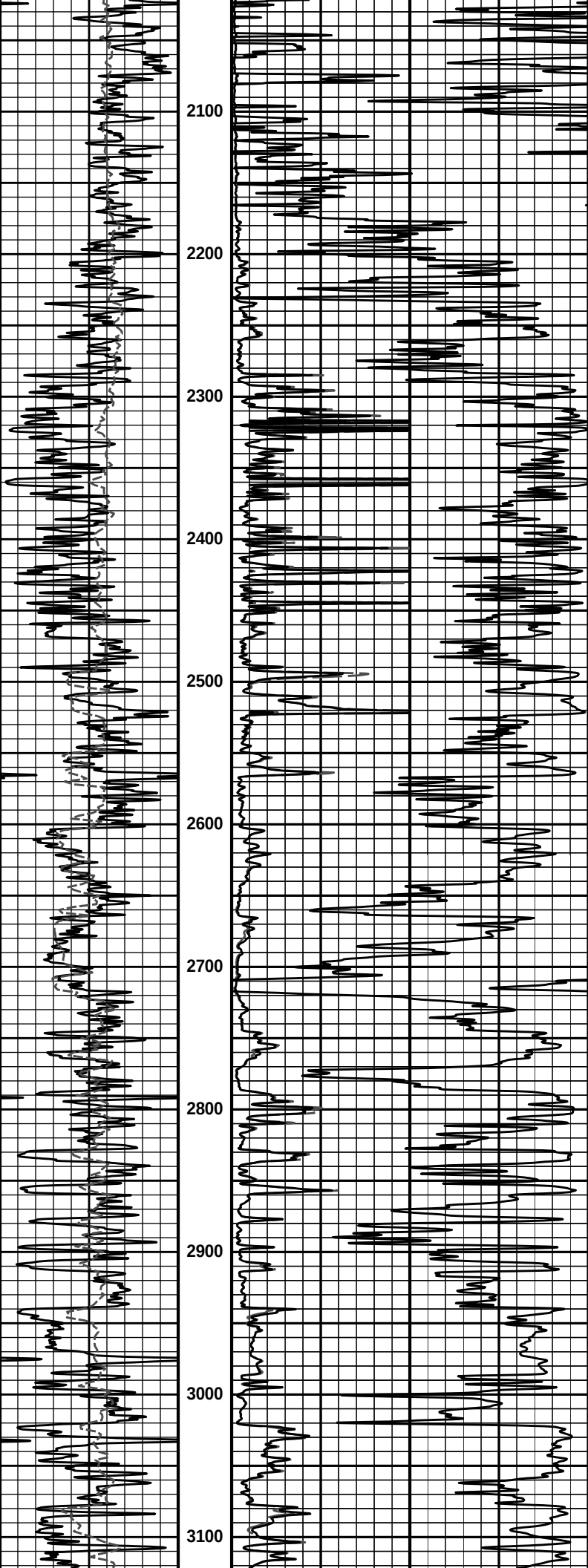
ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

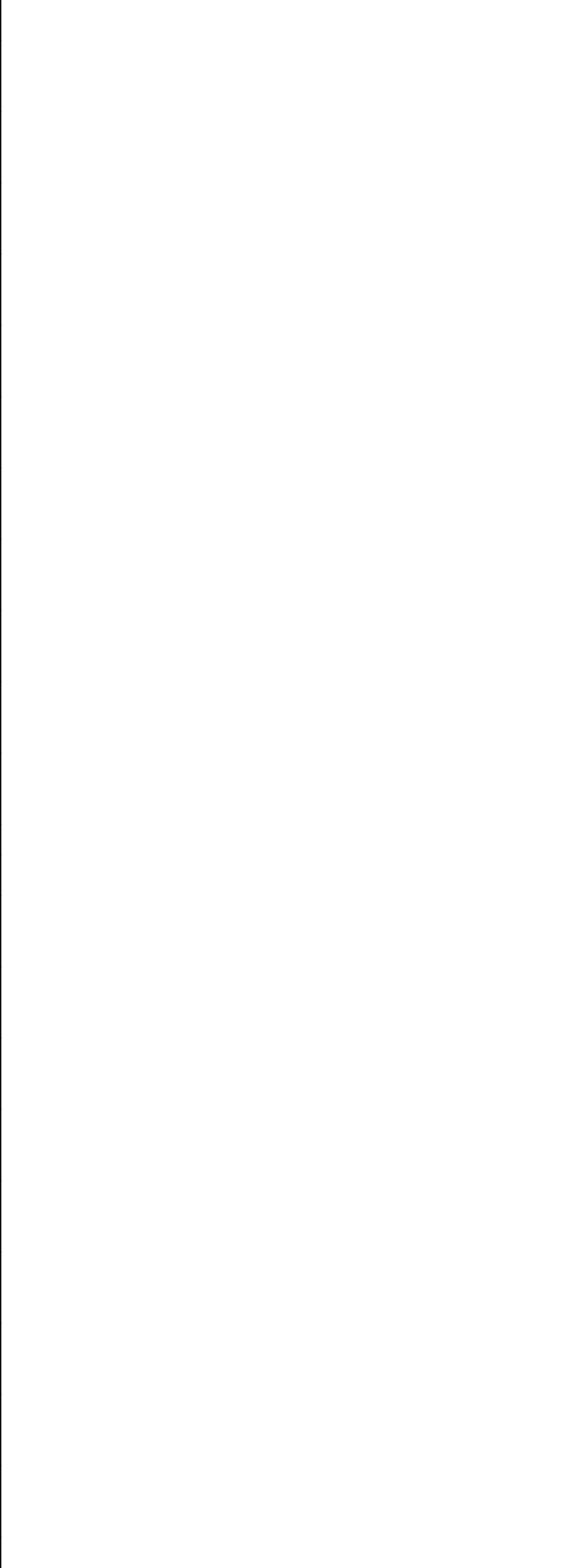
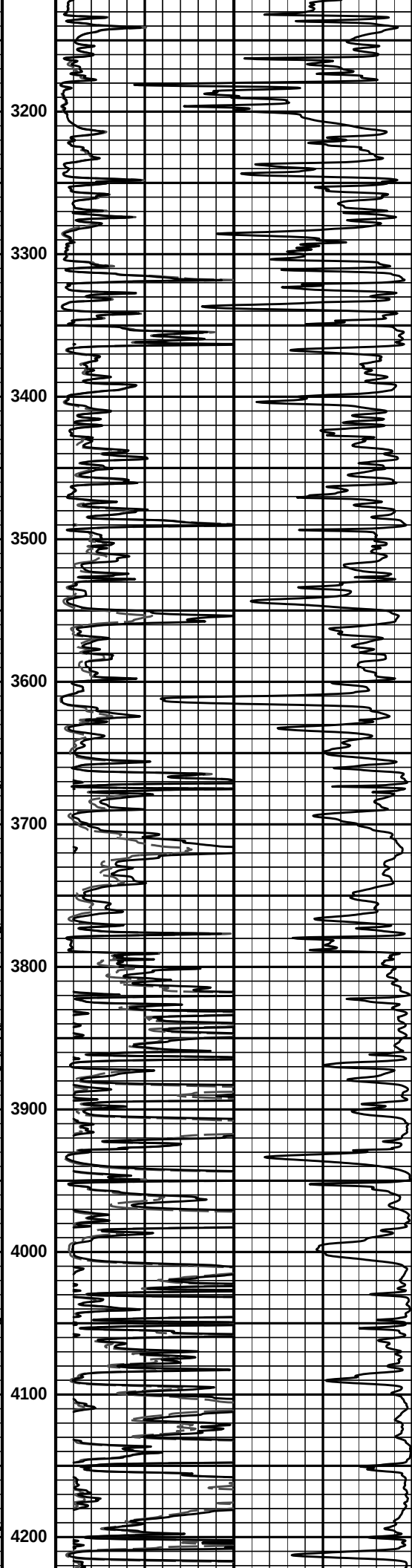
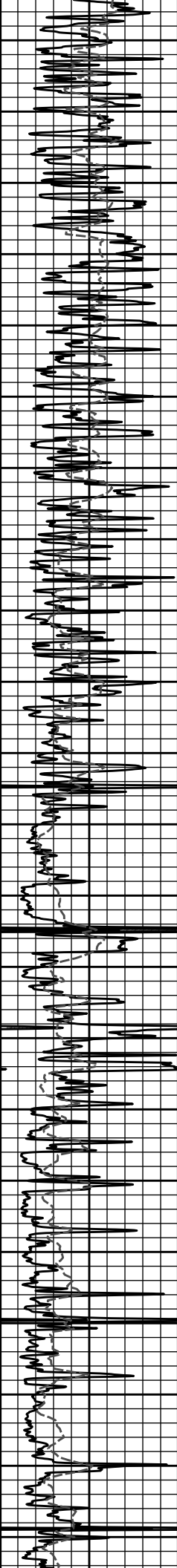
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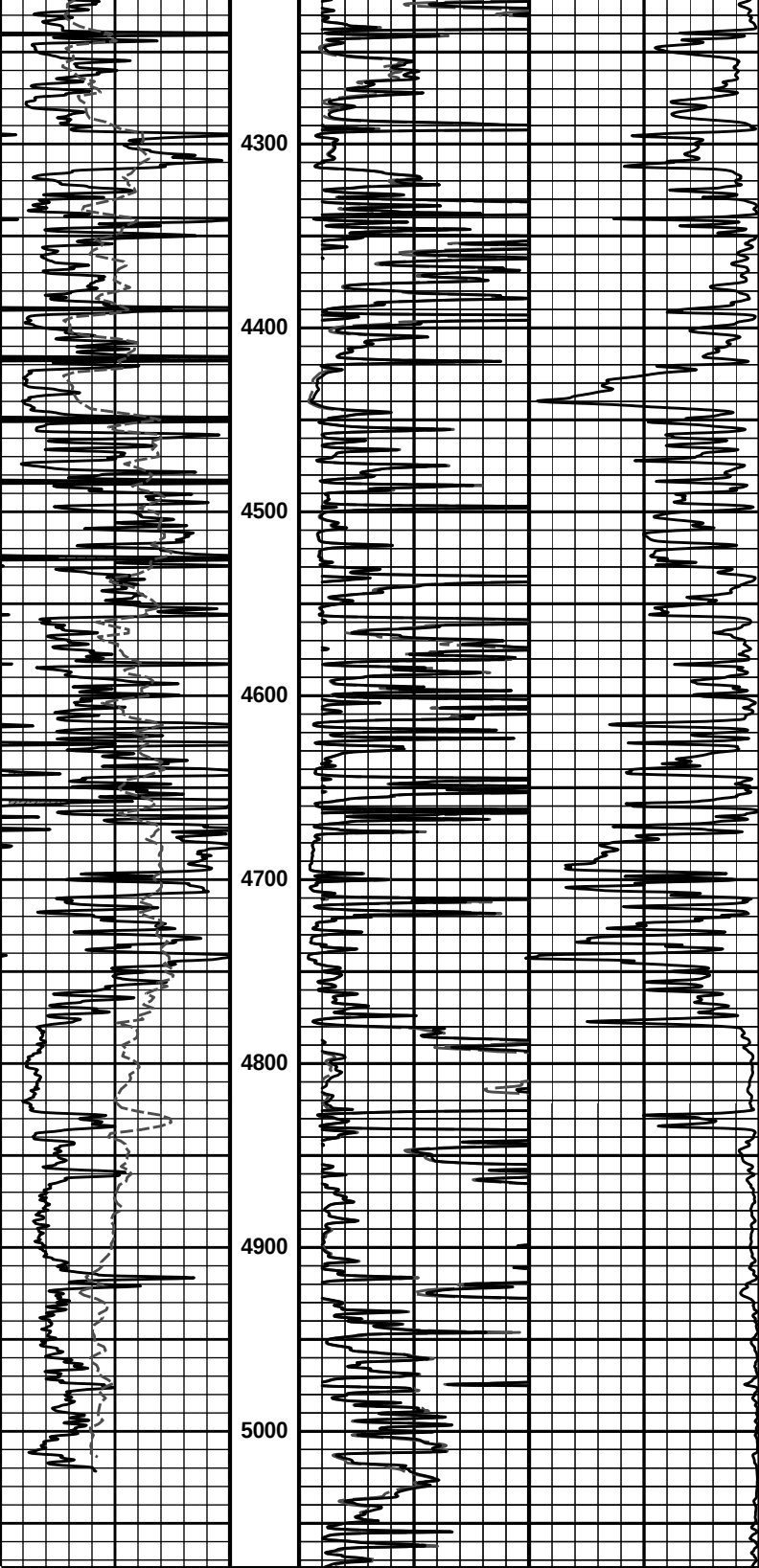
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Plot Range: 1780 ft to 5074 ft
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Plot File: \\LOCAL-IGARDEN_CITY_T_3\\...ACRT_1.lib

1 INCH MAIN LOG









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

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Plot Time: 03-Mar-13 09:42:04
 Plot Range: 1780 ft to 5074 ft
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1 INCH MAIN LOG