HALLIBURTON

BOREHOLE COMPENSATED SONIC ARRAY LOG

COMPANY **OXY USA INC.**

WELL **DEWELL B-1**

FIELD/BLOCK **VICTORY**

COUNTY **HASKELL** STATE **KANSAS**

COMPANY OXY USA INC.
WELL DEWELL B-1
FIELD/BLOCK VICTORY
COUNTY HASKELL
STATE KANSAS

API No. 15081220300000

Location (SHL) 1210' FSL & 1240' FEL
NW-NW-SE-SE

Sect. 17 Twp. 29 S Rge. 33 W

Other Services:
DSN / SDL
MICROLOG
HFDT
BSAT
ACRT

Permanent Datum	GL	Elev. 2972.0 ft	Elev.: K.B. 2983.0 ft
Log measured from	KB	, 11.0 ft above perm. Datum	D.F. 2982.0 ft
Drilling measured from	KB		G.L. 2972.0 ft

Date		01-Sep-13					
Run No.		ONE					
Depth - Driller		5784.00 ft					
Depth - Logger		5770.0 ft					
Bottom - Logged Interval		5743					
Top - Logged Interval		1599					
Casing - Driller		8.625 in @ 1603.0 ft		@		@	
Casing - Logger		1599.0 ft					
Bit Size		7.875 in		@		@	
Type Fluid in Hole		WATER BASED					
Density	Viscosity	9.2 ppg	48.00 s/qt				
PH	Fluid Loss	10.20 pH	6.0 cptm				
Source of Sample		MUD PIT					
Rm @ Meas. Temperature		1.090 ohmm @ 85.00 degF		@		@	
Rmf @ Meas. Temperature		0.93 ohmm @ 85.00 degF		@		@	
Rmc @ Meas. Temperature		1.250 ohmm @ 85.00 degF		@		@	
Source Rmf	Rmc	CALCULATED	CALCULATED				
Rm @ BHT		0.69 ohmm @ 138.0 degF		@		@	
Time Since Circulation		14.5 hr					
Time on Bottom		02-Sep-13 01:34					
Max. Rec. Temperature		138.0 degF @ 5770.0 ft		@		@	
Equipment	Location	11072142	LIBERAL				
Recorded By		SHELDON INGERSOLL					
Witnessed By		M. BONNER					

Fold here

Service Ticket No.: 900707138 API Serial No.: 15081220300000 PGM Version: WL INSITE R3:8.4 (Build 5)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

Date	Sample No.				
Depth-Driller					
Type Fluid in Hole					
Density	Viscosity				
Ph	Fluid Loss				
Source of Sample					
Rm @ Meas. Temp		@	@	@	@
Rmf @ Meas. Temp.		@	@	@	@
Rmc @ Meas. Temp.		@	@	@	@
Source Rmf	Rmc				
Rm @ BHT		@	@	@	@
Rmf @ BHT		@	@	@	@
Rmc @ BHT		@	@	@	@

RESISTIVITY SCALE CHANGES

	Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA

	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
	@				
	ONE	ACRT	N/A	CENT	
	@	11055059			
	ONE	HFDT		ECCENT	
	@	11997111			
	@				
	@				

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	11048627	Serial No.	10747683	Serial No.	10844781	Serial No.	11019643
Model No.	GTET	Model No.	BSAT	Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	No. of Cent.	2	Diameter	5.3"	Diameter	3.625"
Detector Model No.	T-102	Spacing	.5'	Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT			Source Type	CS-137	Source Type	AM-241BE
Length	8"	LSA [Y/N]		Serial No.	5168GW	Serial No.	DSN-424
Distance to Source	N/A	FWDA [Y/N]		Strength	1.5 CI	Strength	15 CI

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		1599	REC	0	150	30	-10	47.6 us/ft	30	-10	2.71 gm/cc	30	-10	LIME

DIRECTIONAL INFORMATION

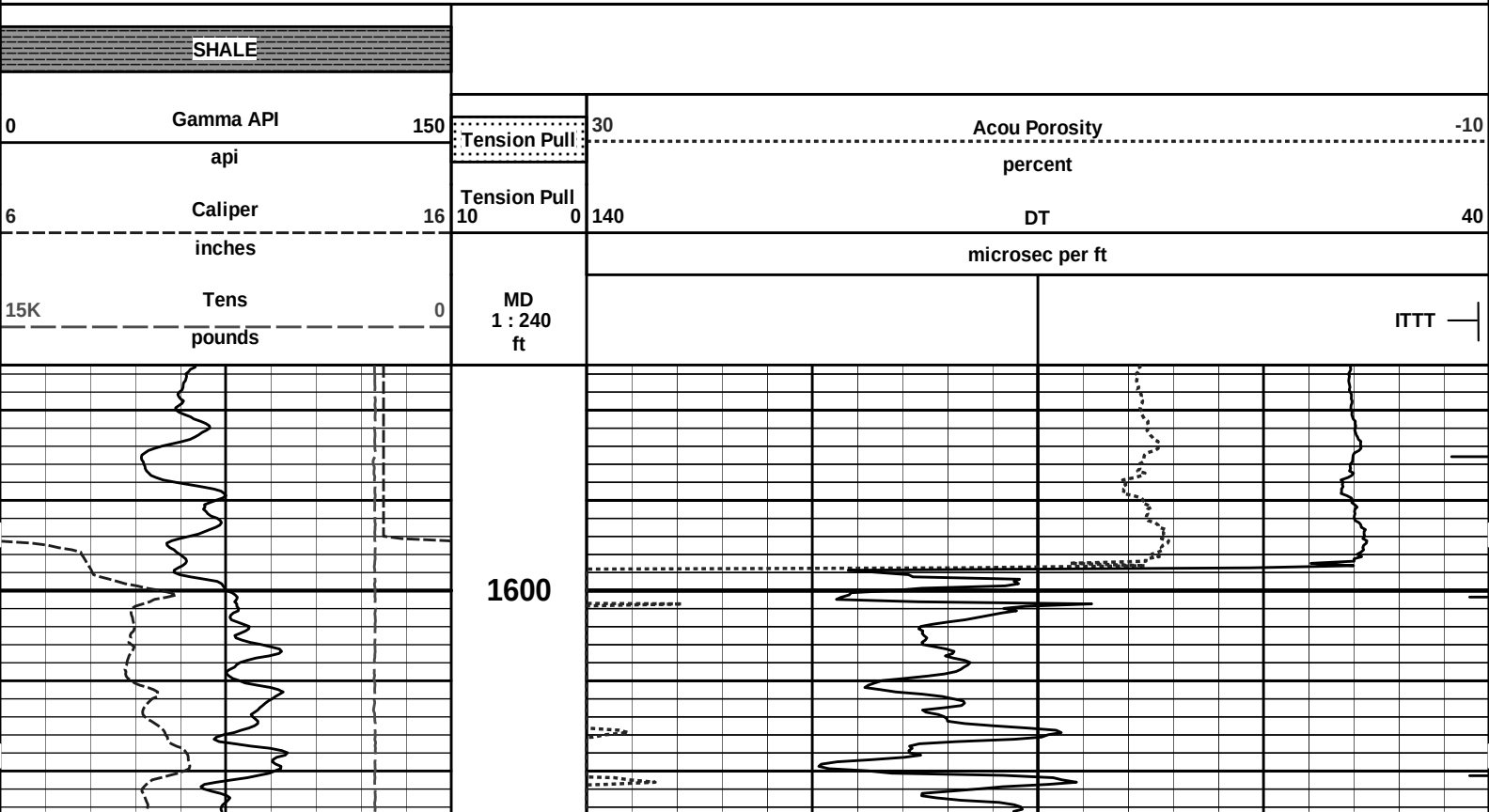
Maximum Deviation @	KOP @

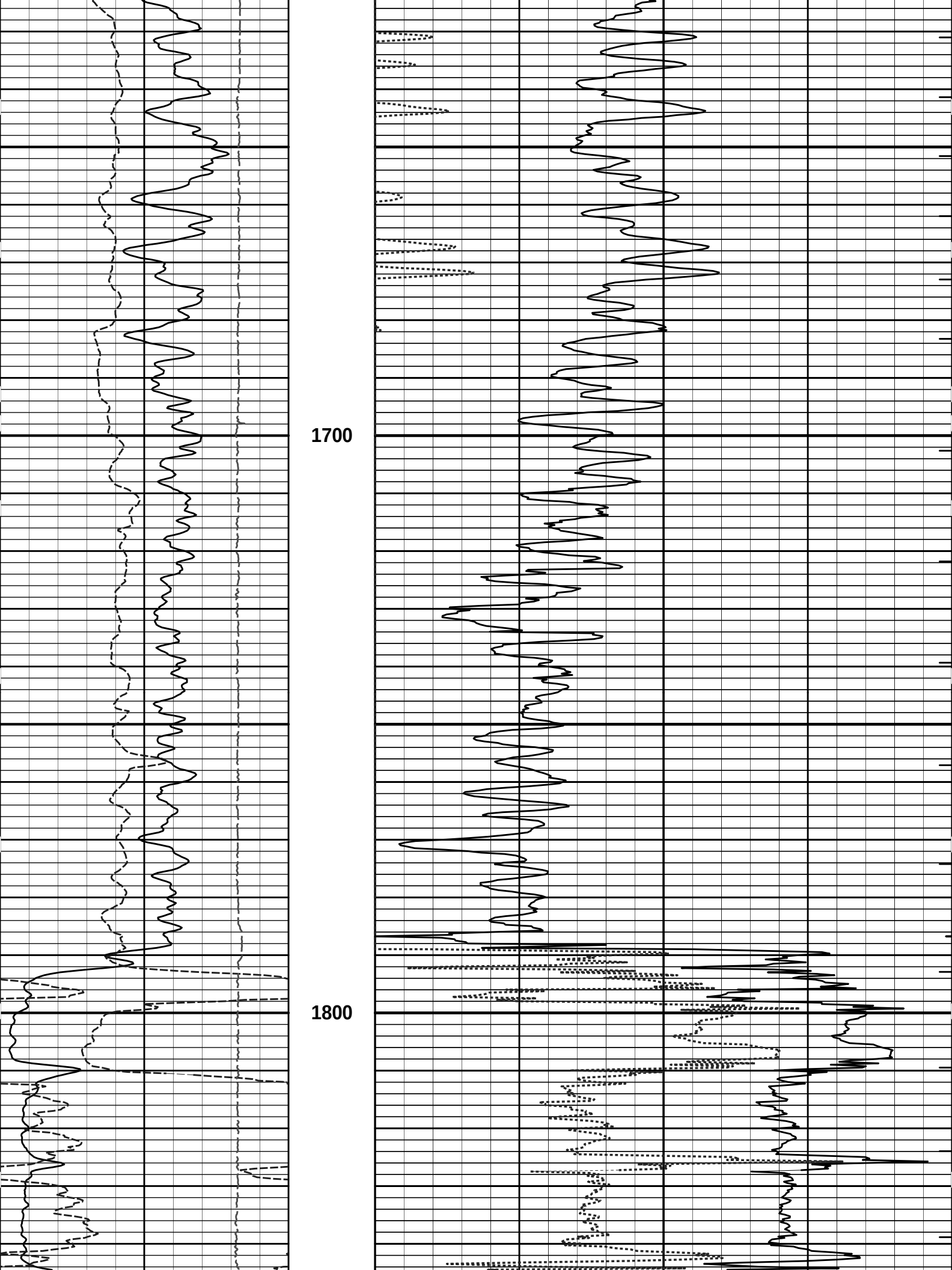
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.

HALLIBURTON

Plot Time: 02-Sep-13 06:34:47
Plot Range: 1575 ft to 5773.08 ft
Data: DEWELL B-1\Well Based\R1 CASING
Plot File: \\BSAT\BSAT_5_MAIN_LIB

5 INCH MAIN LOG

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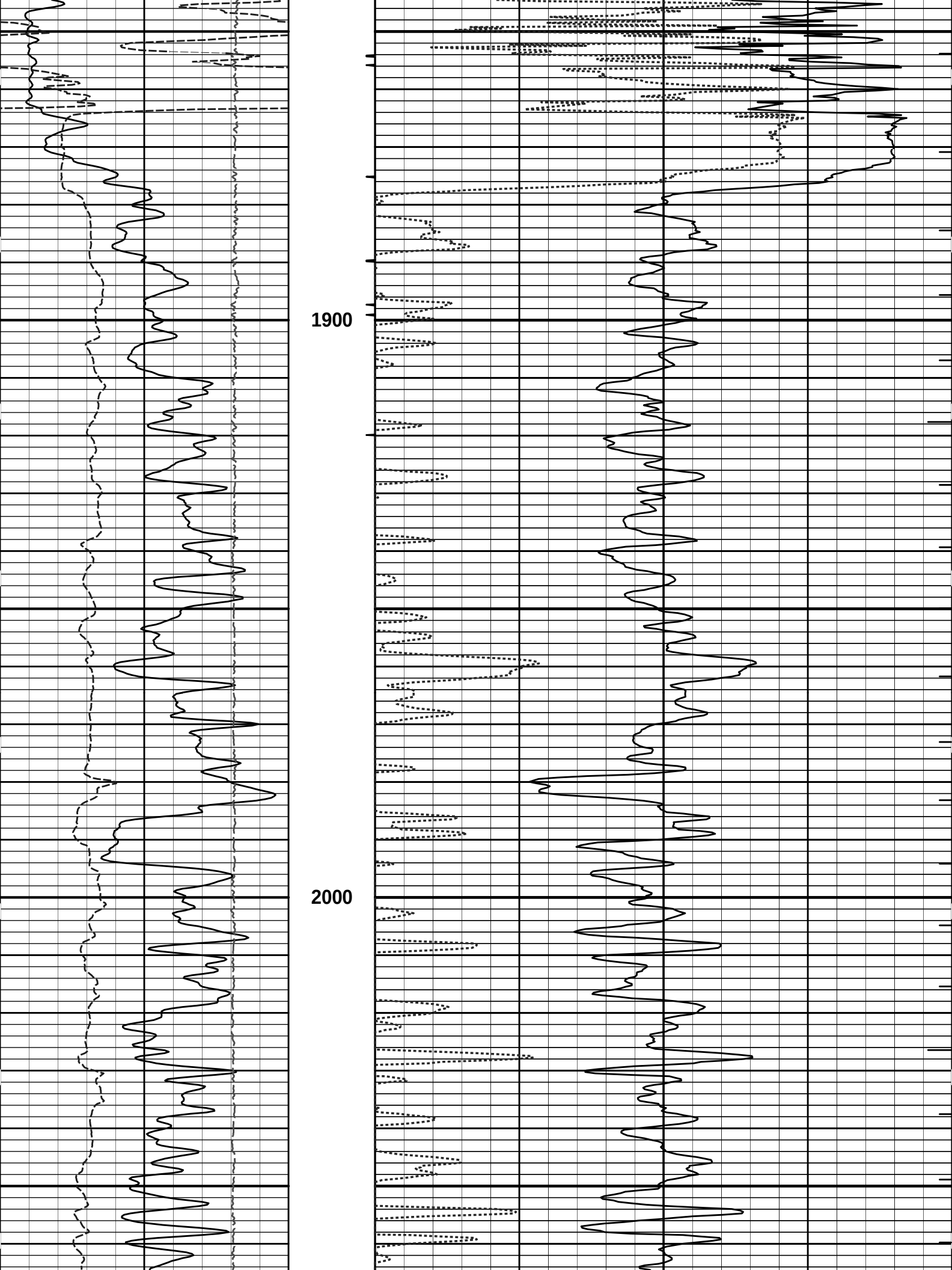
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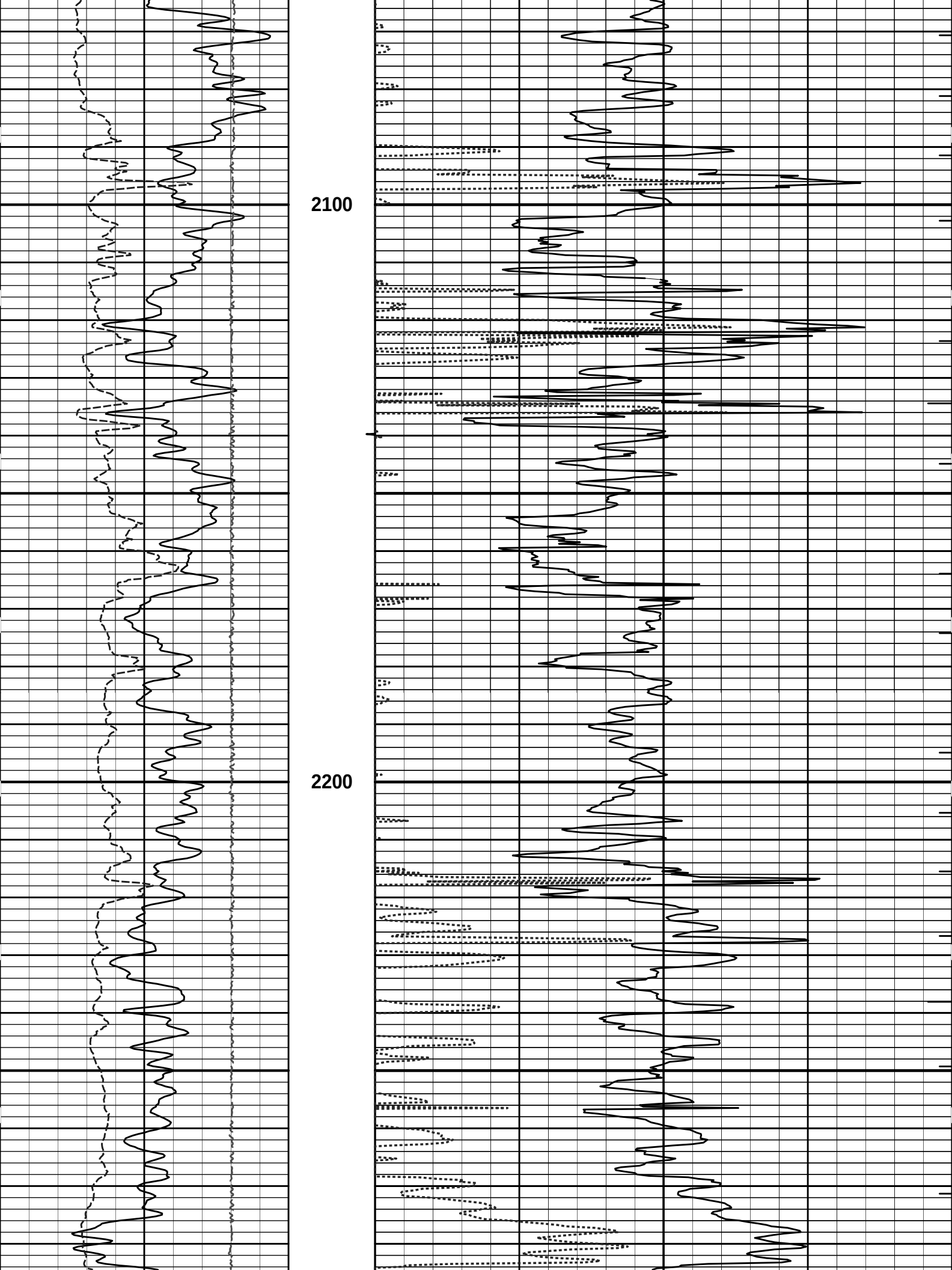
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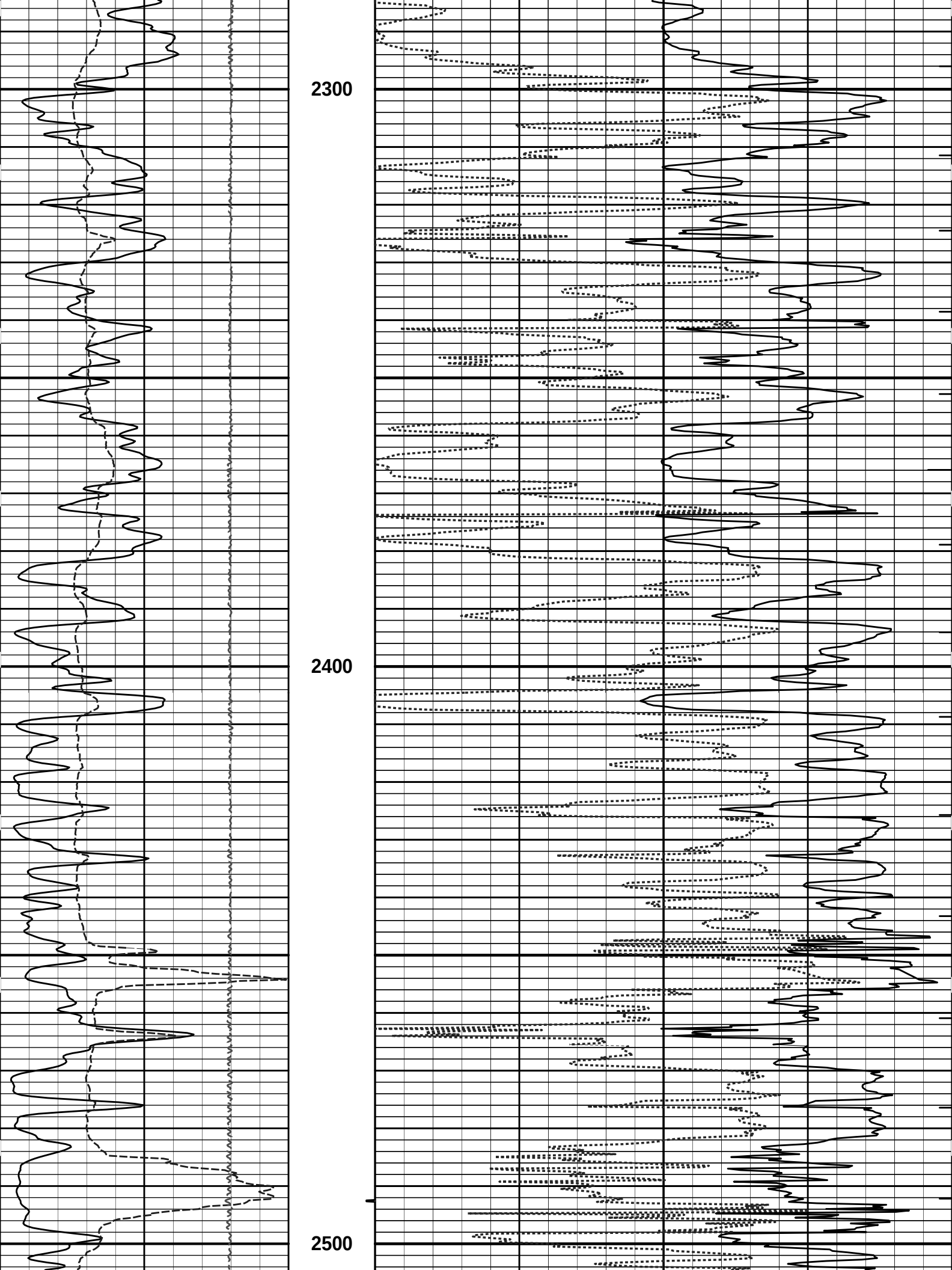
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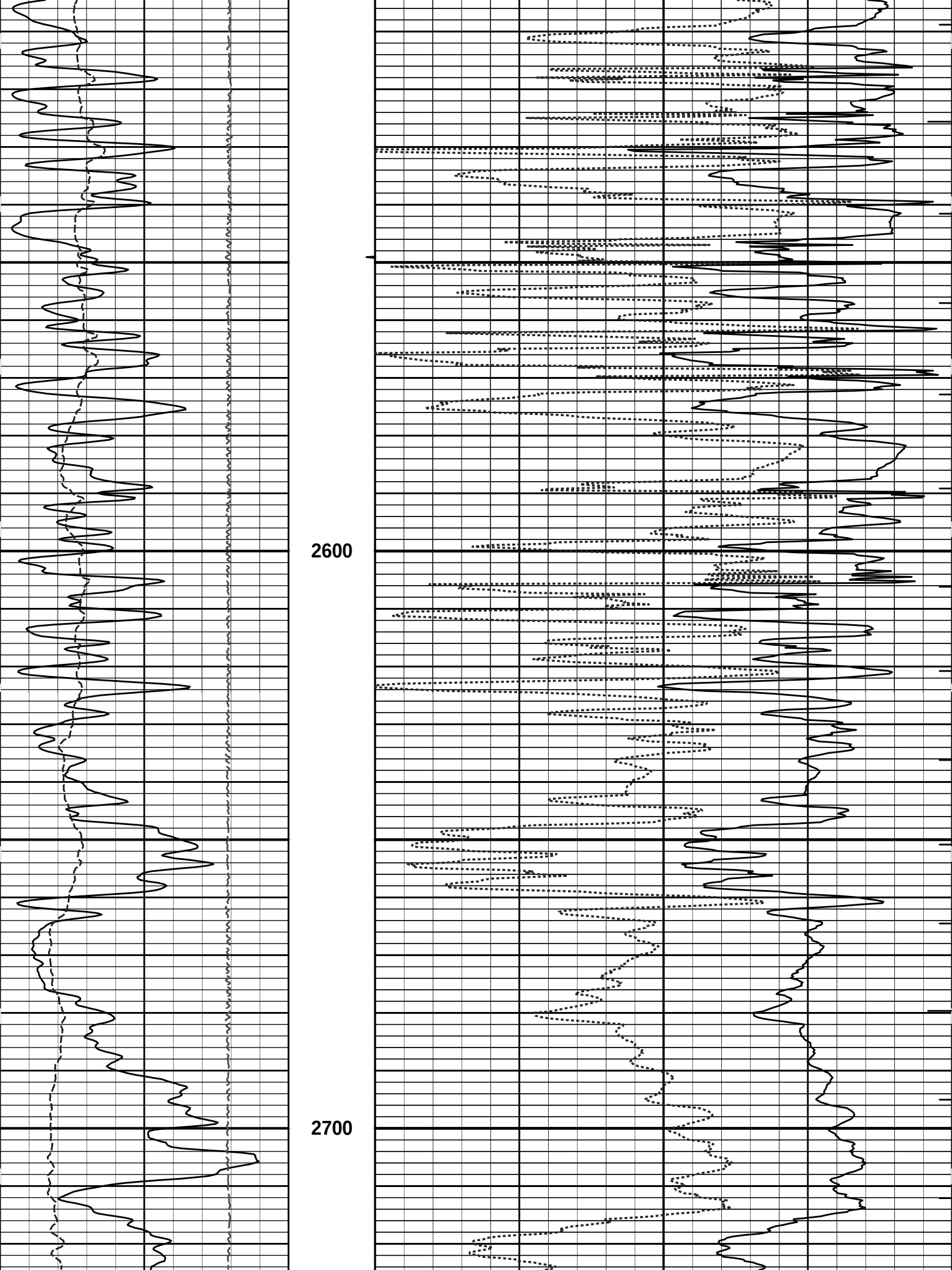
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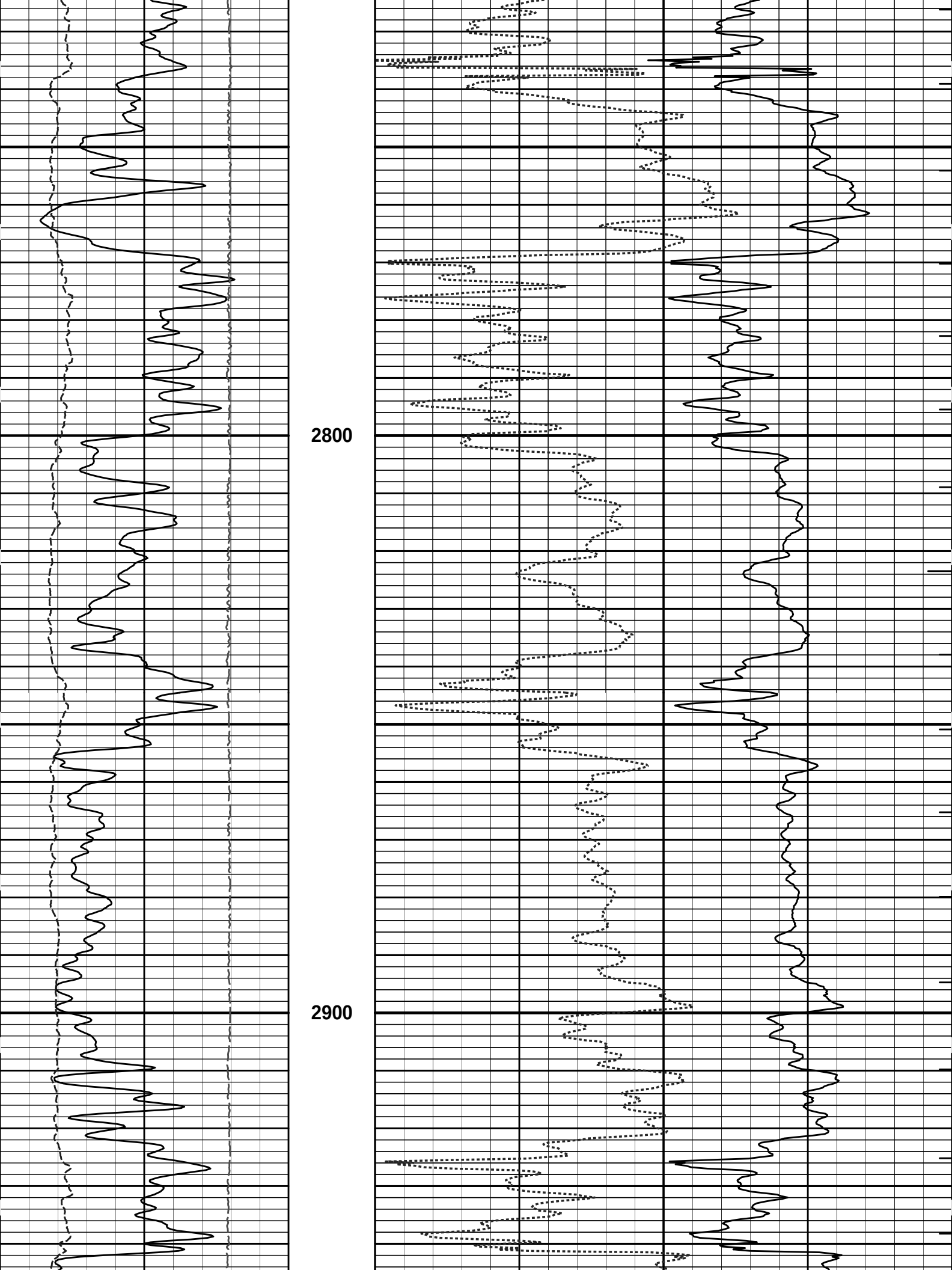
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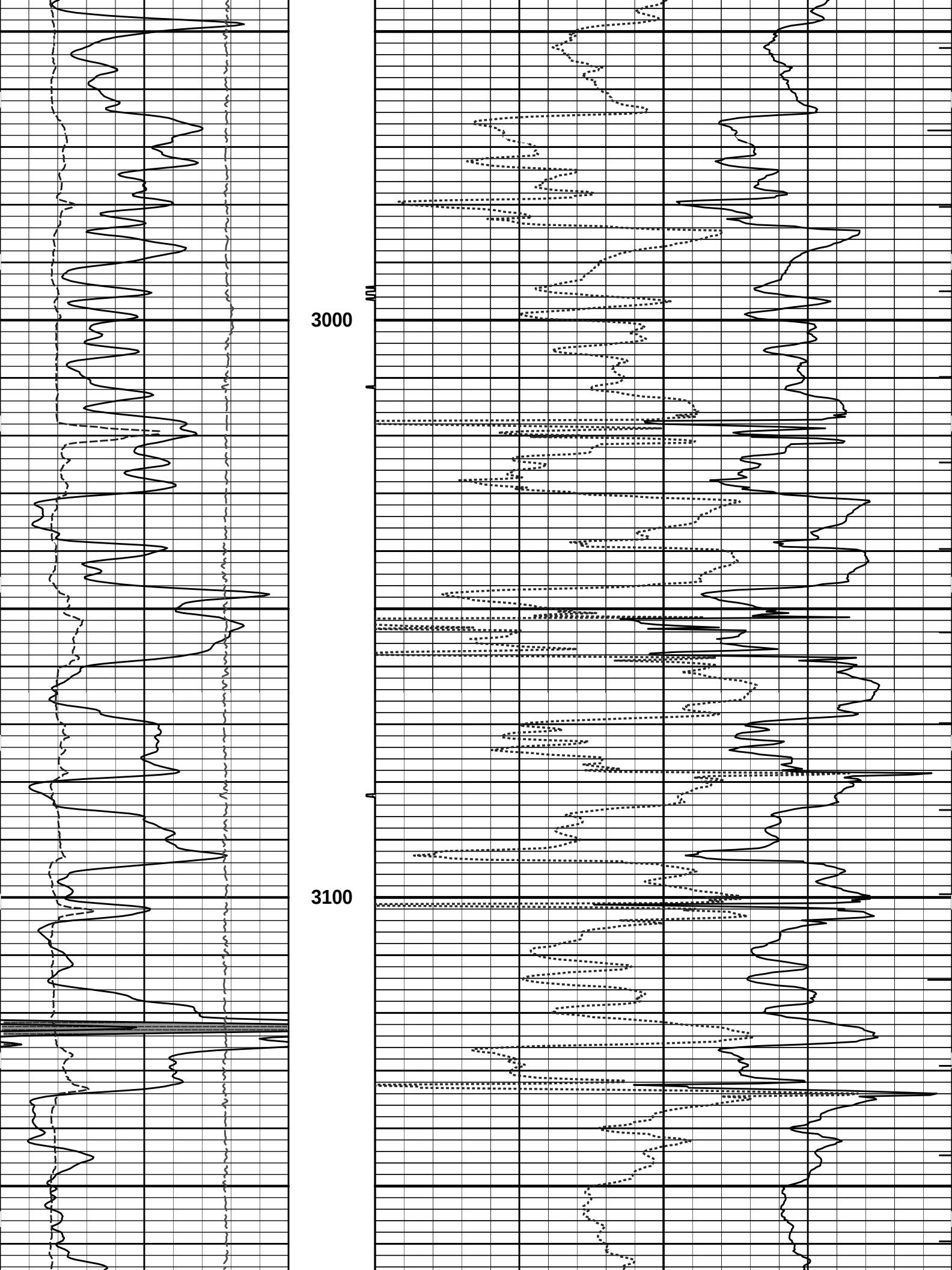
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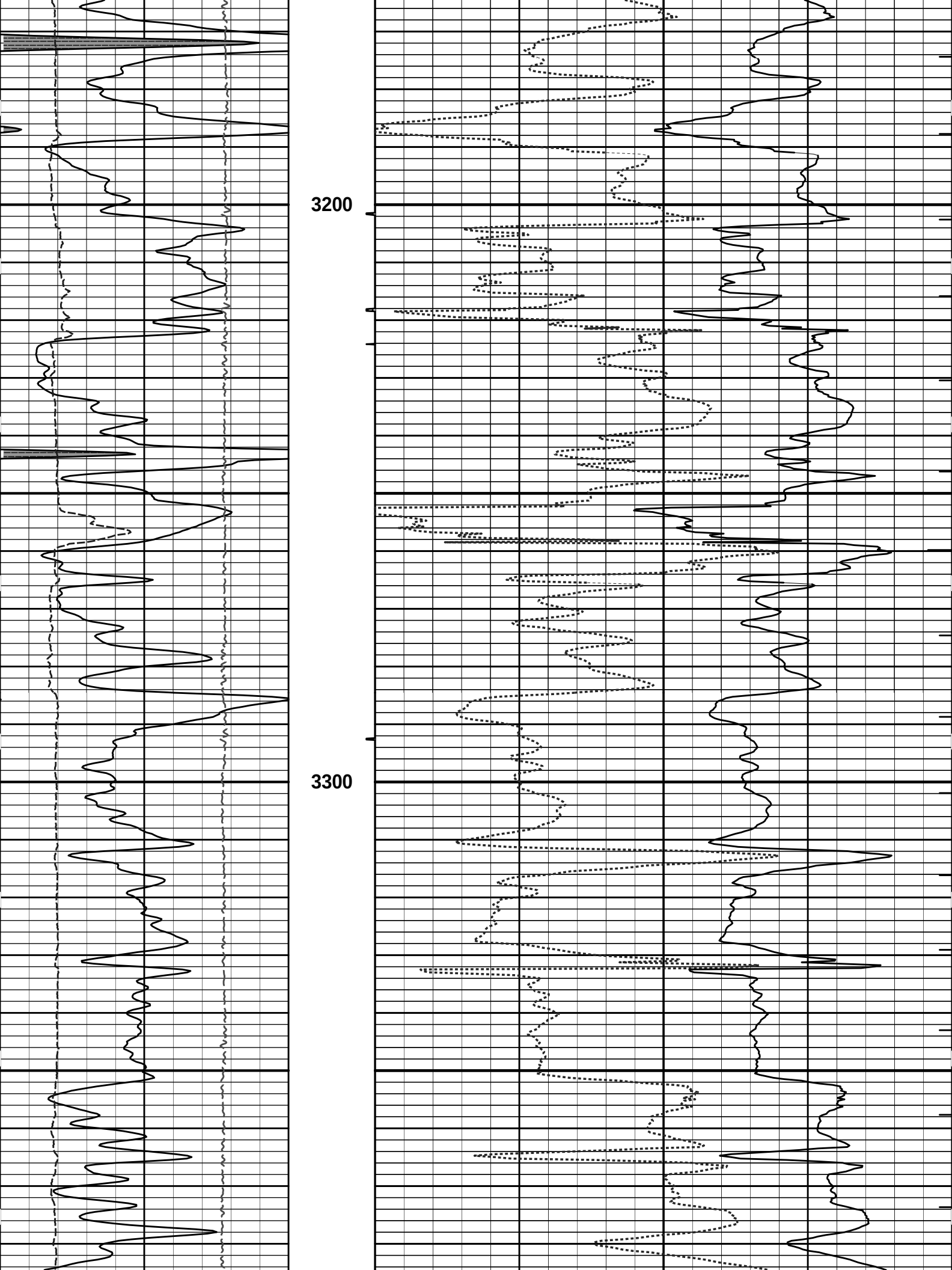
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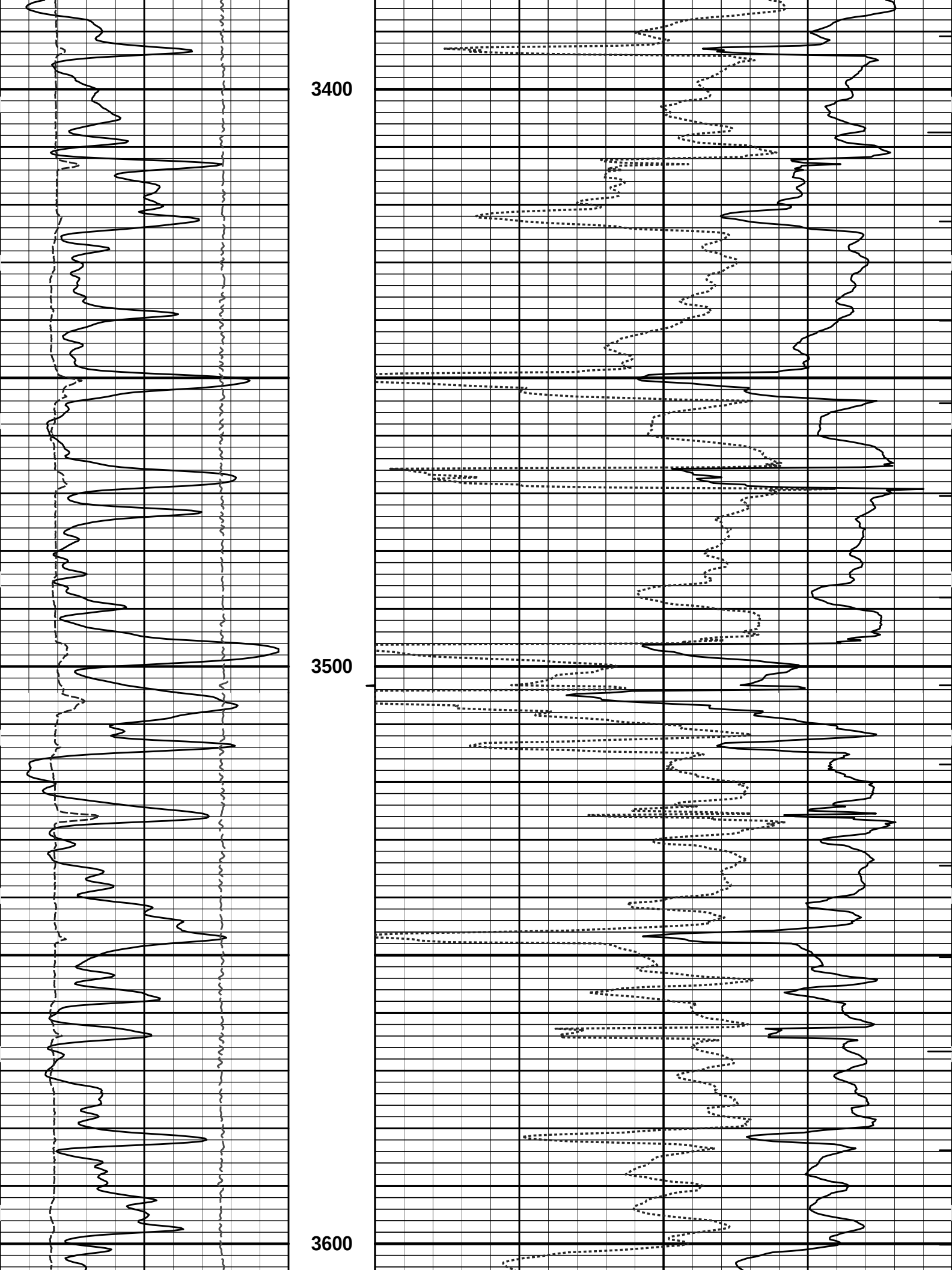
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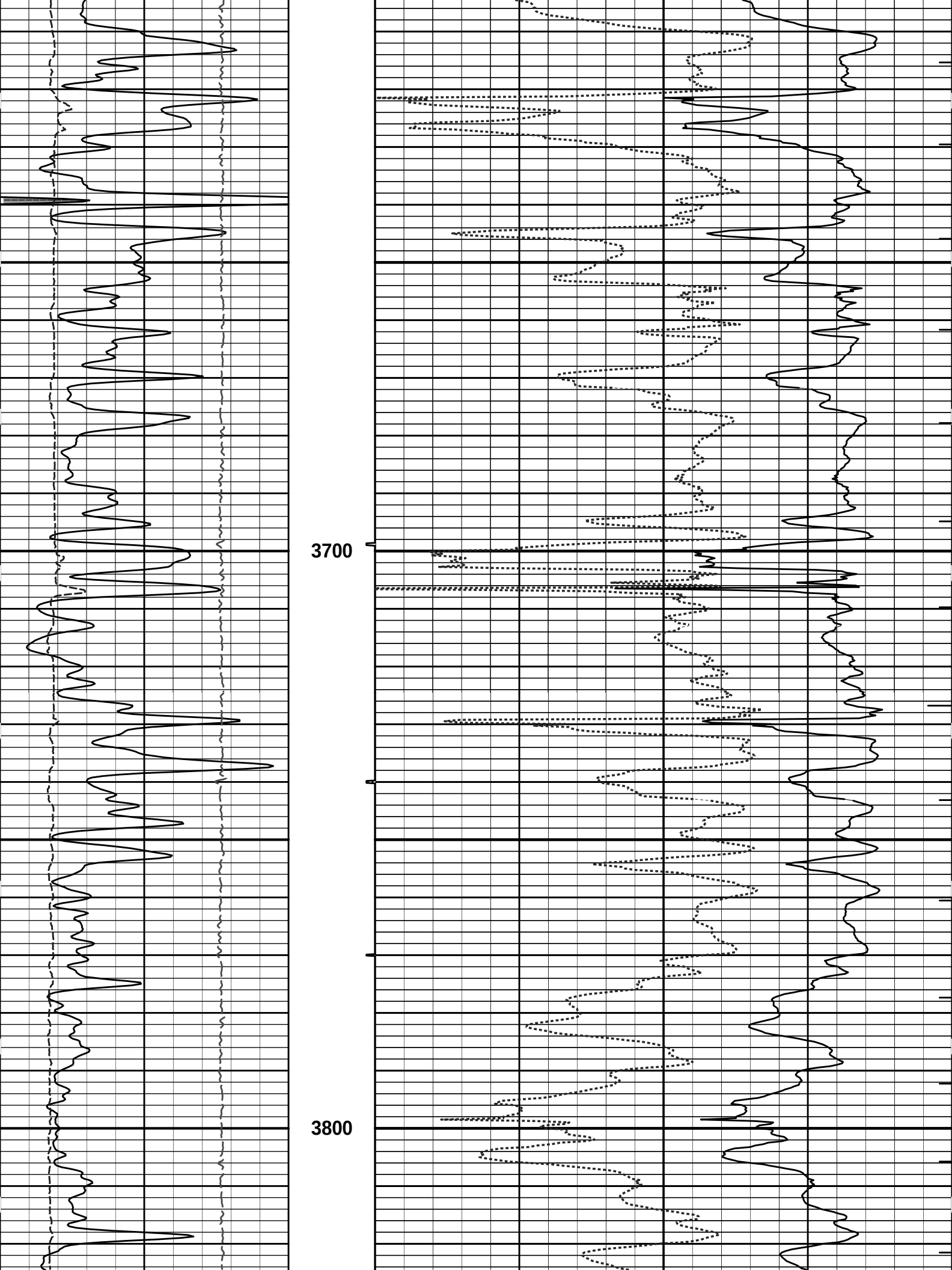
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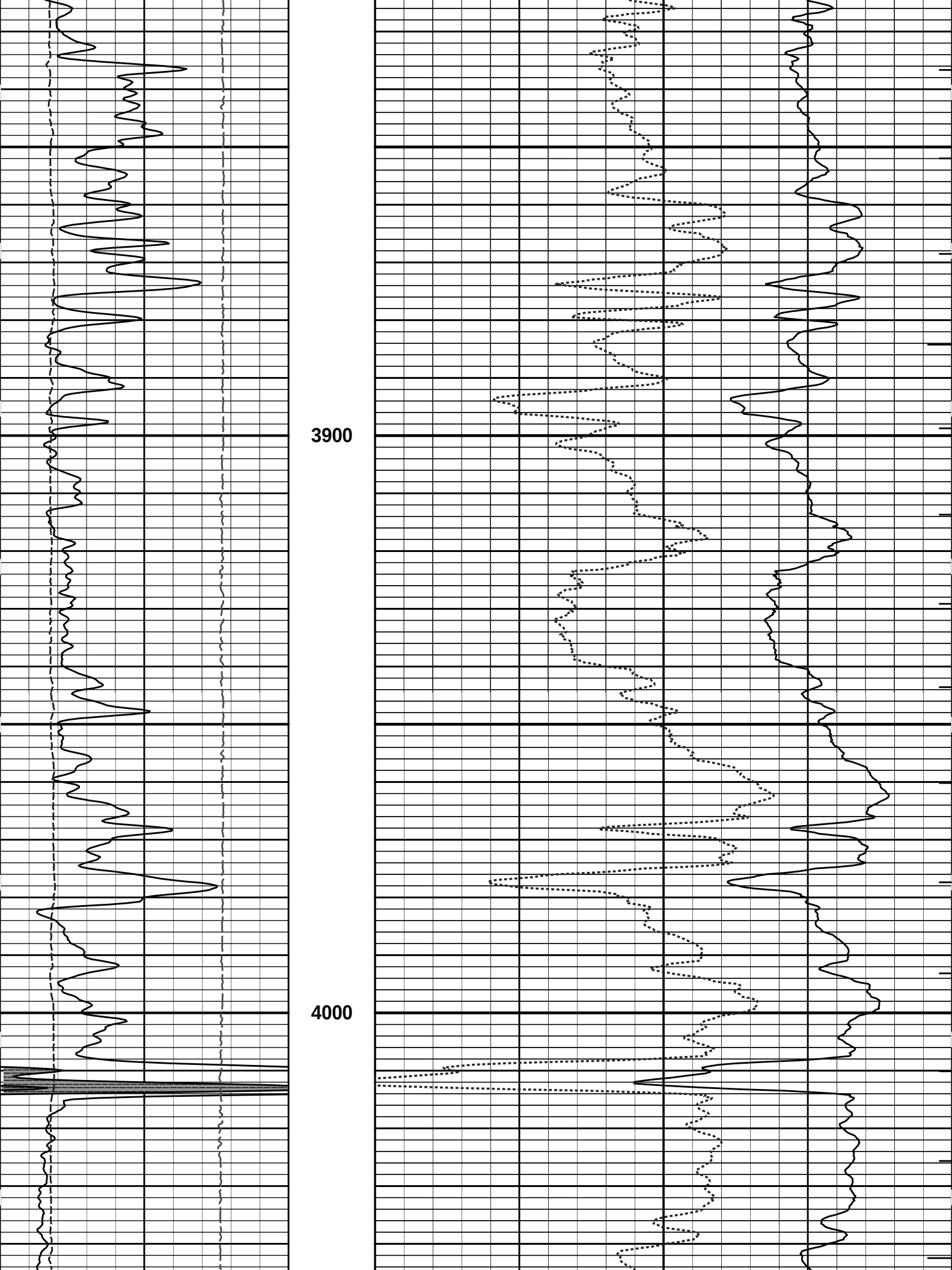
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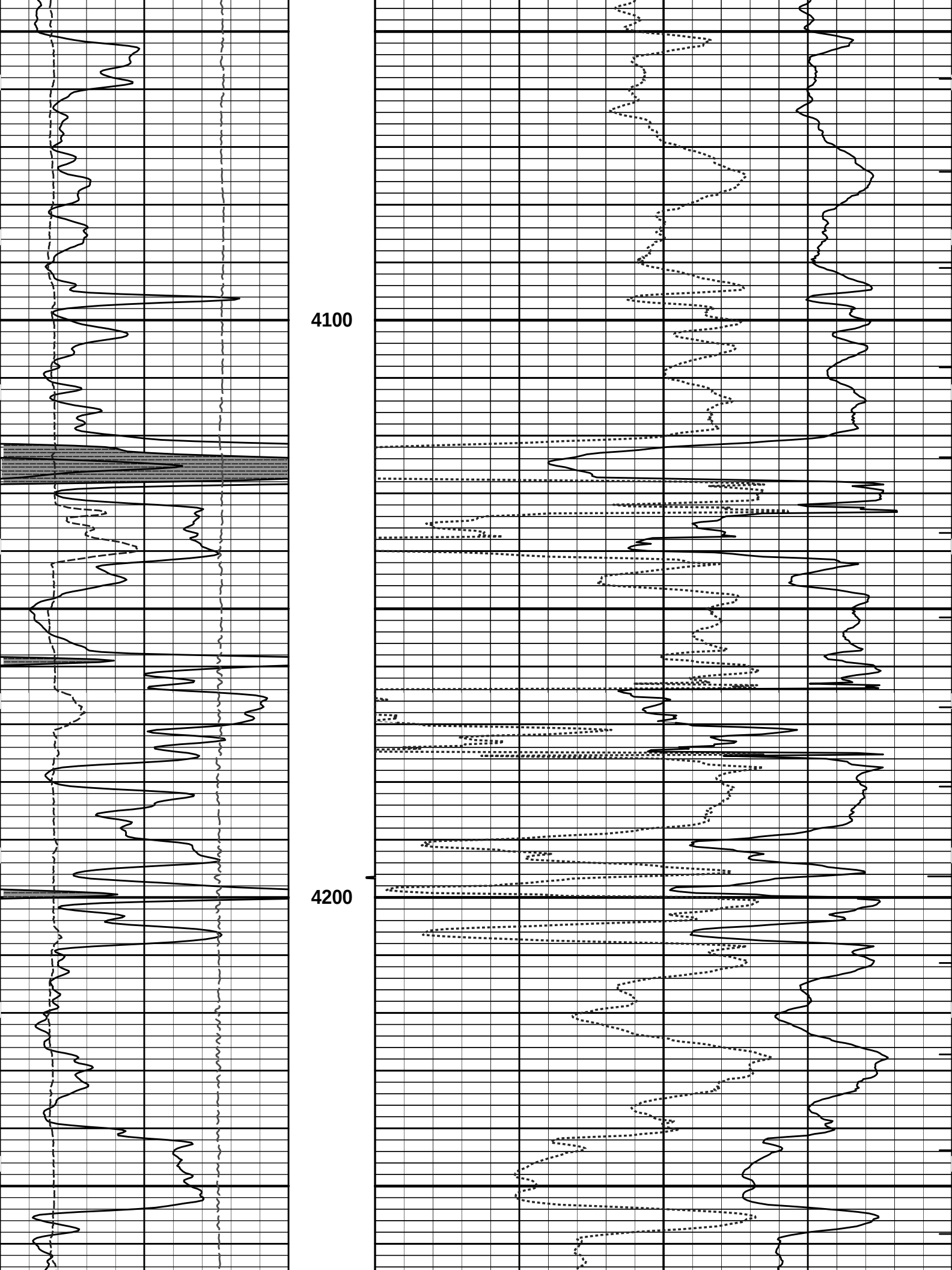
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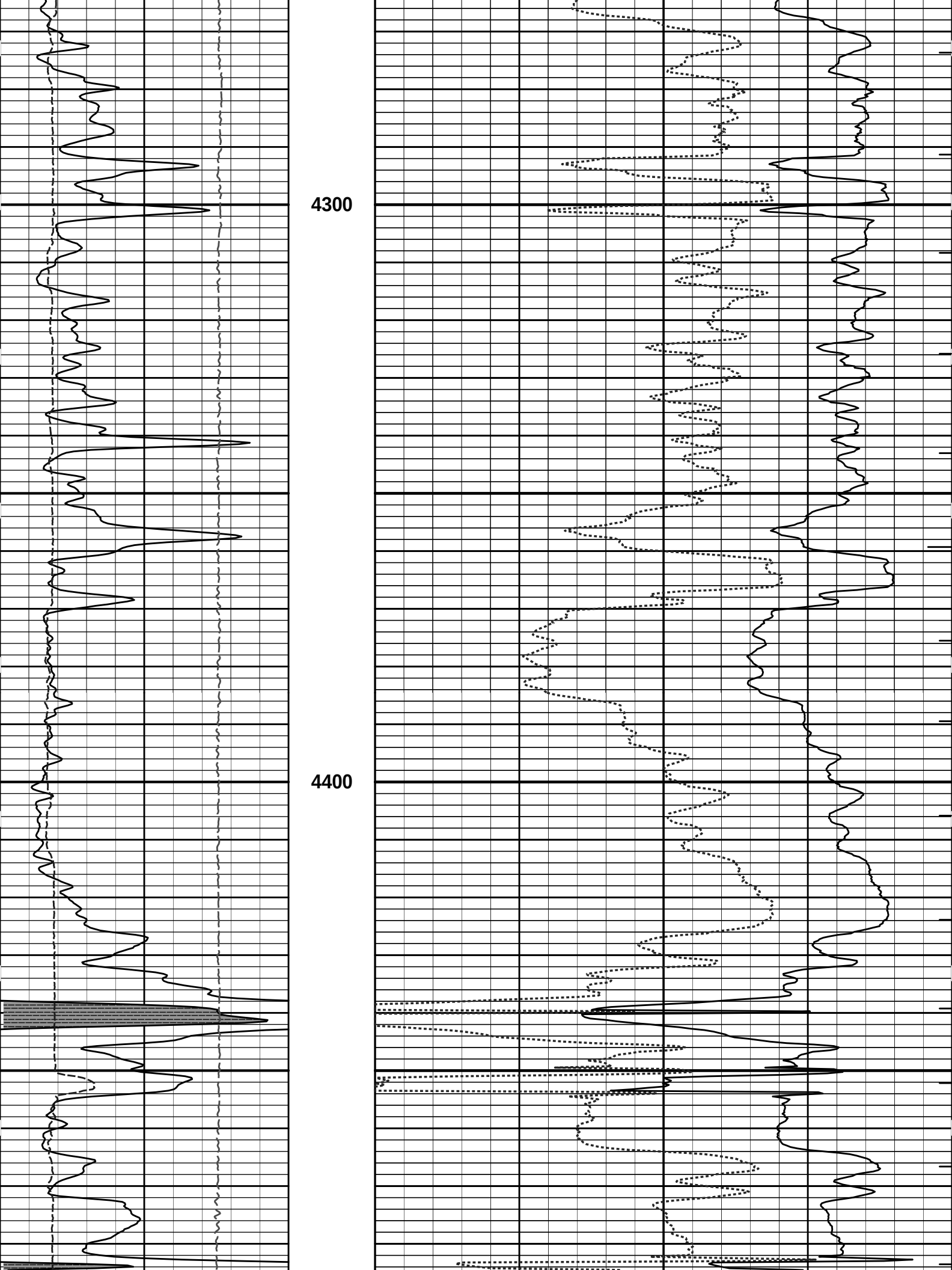
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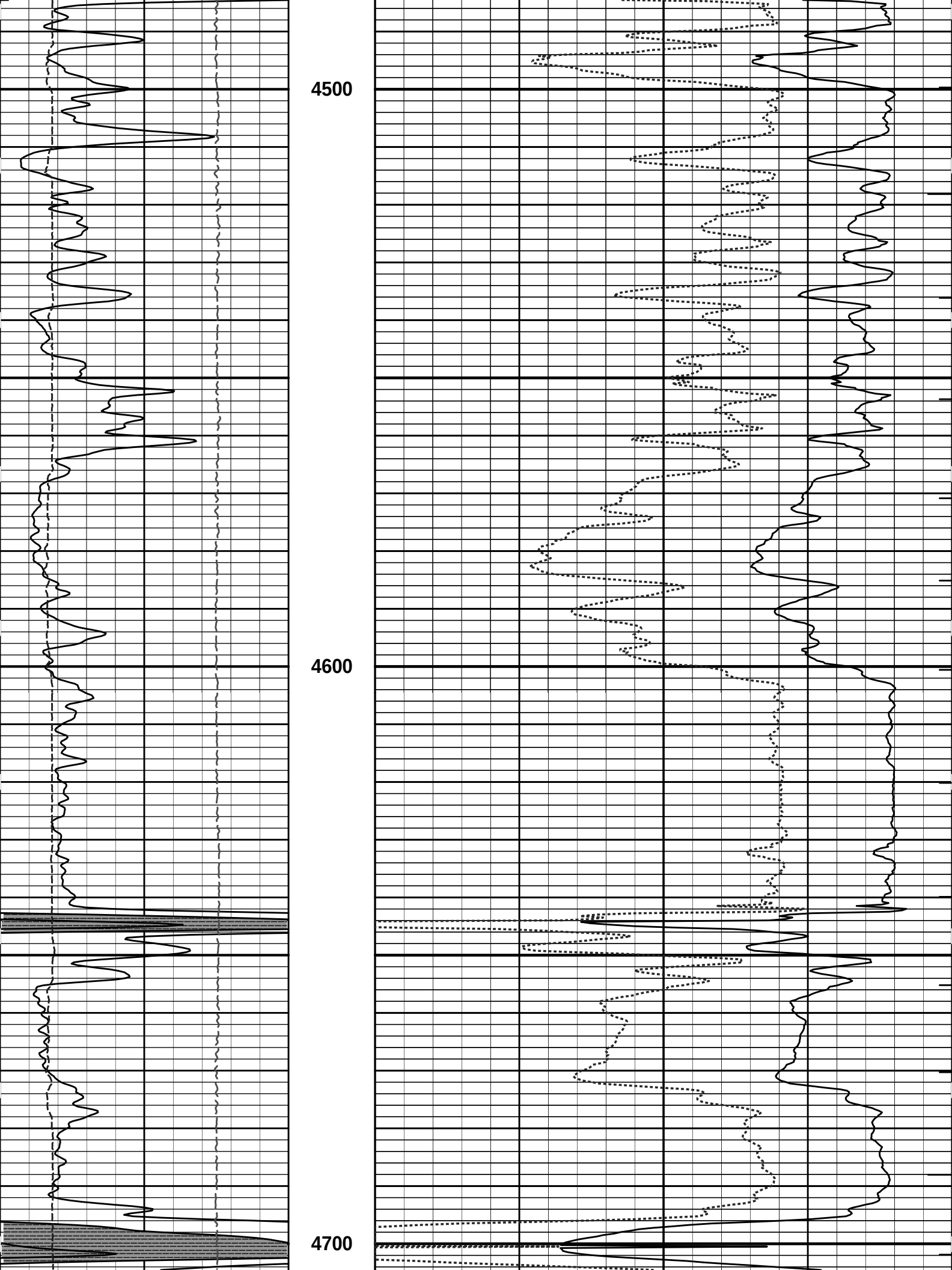
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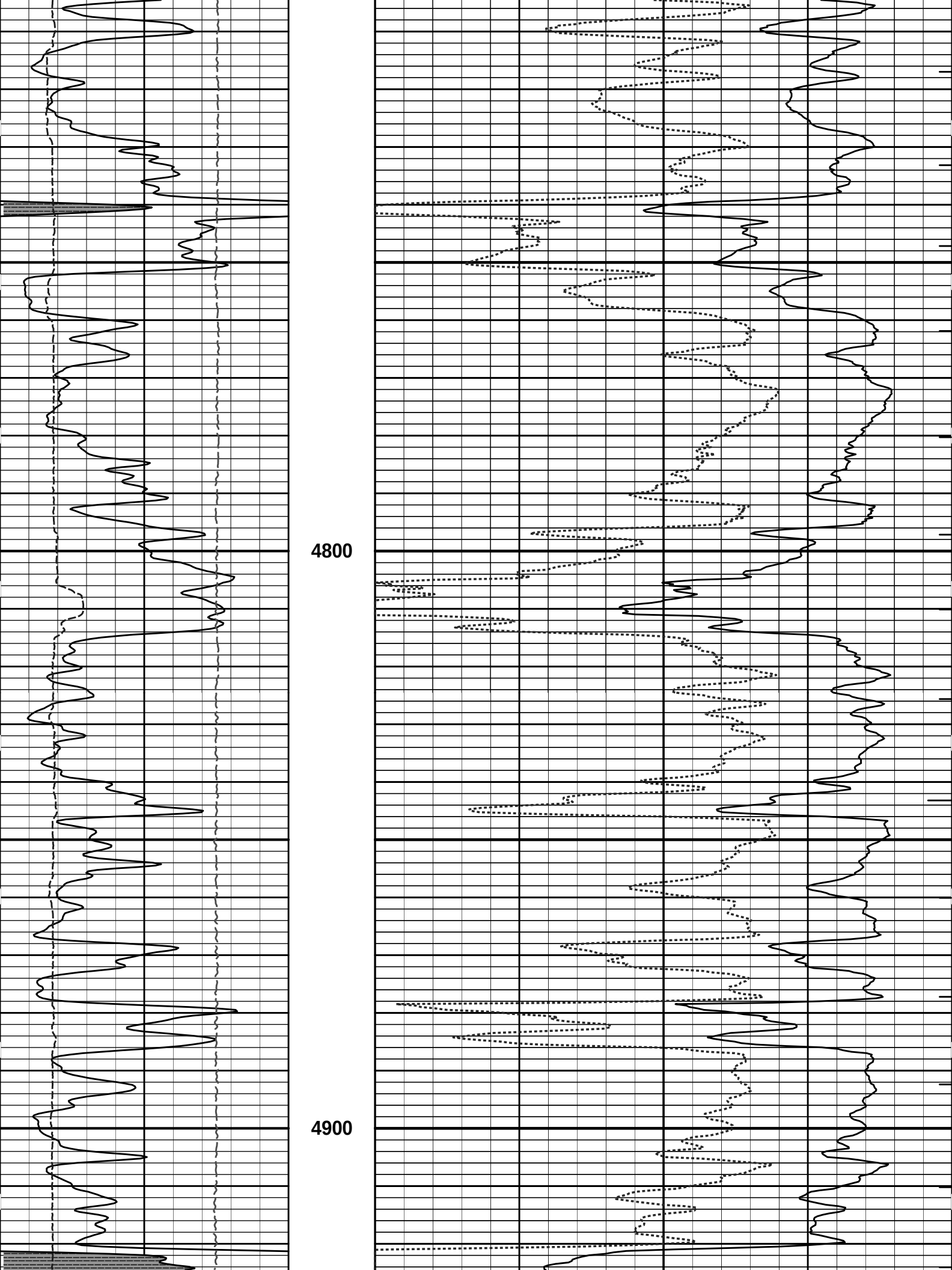
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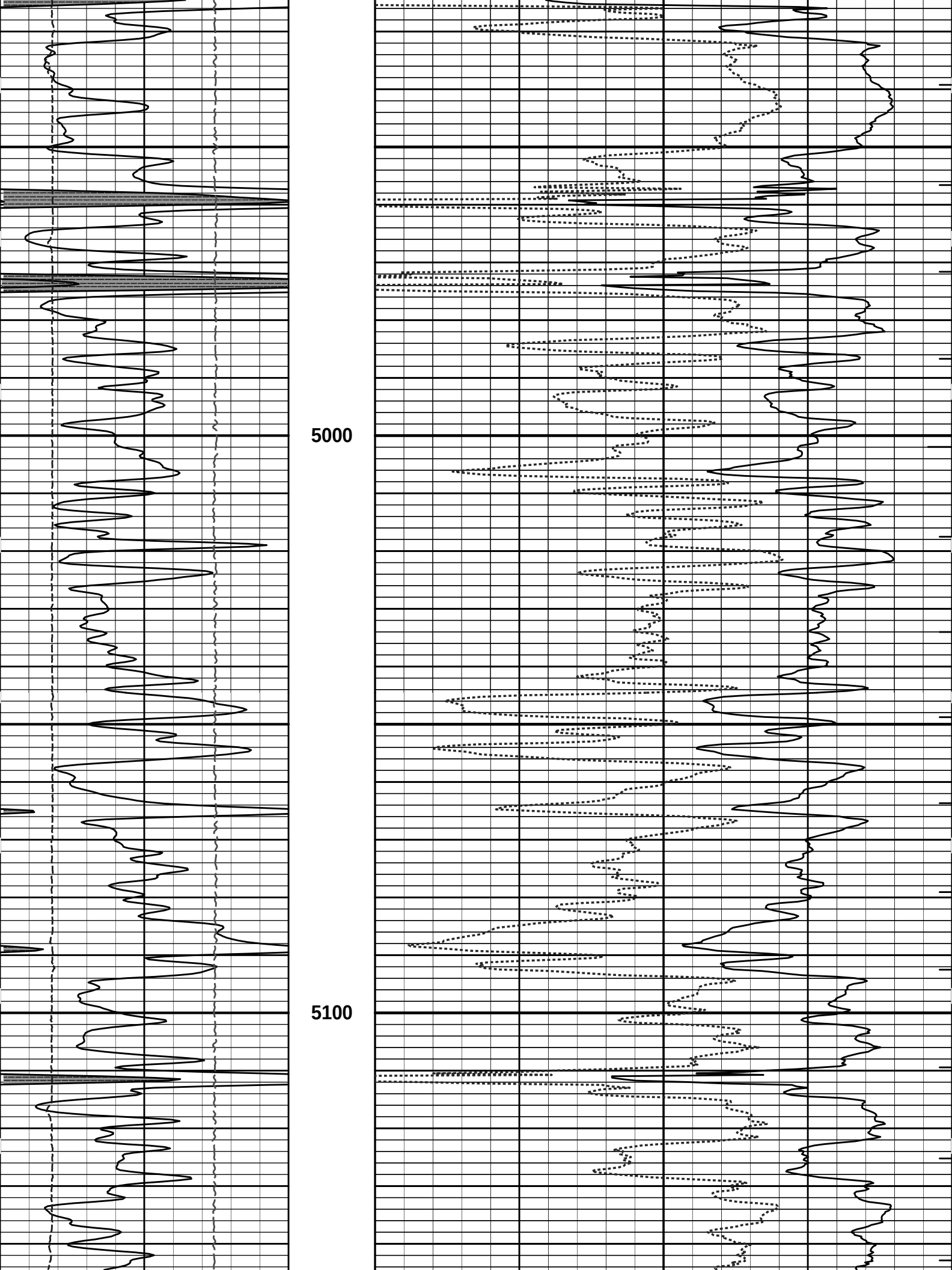
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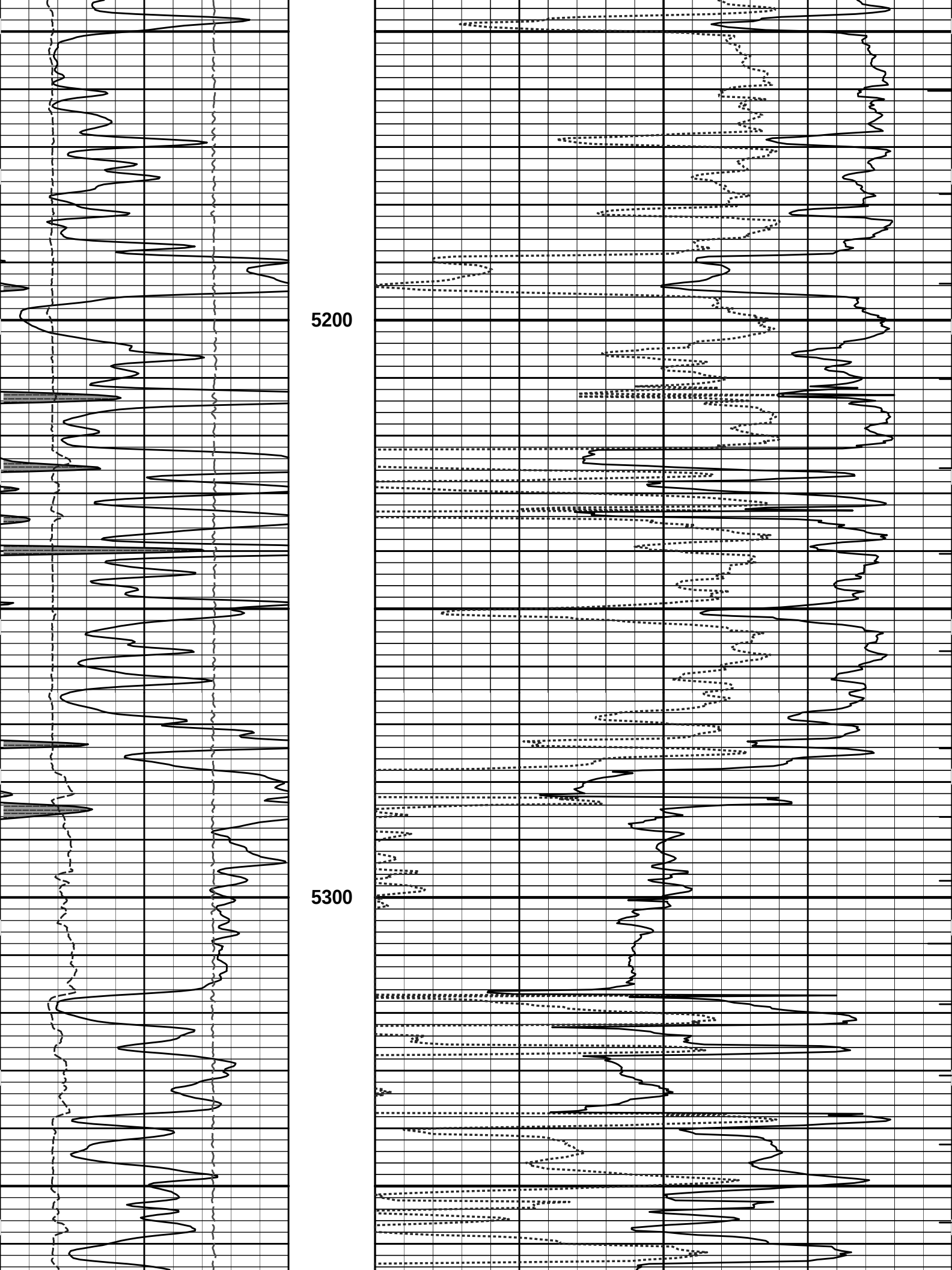
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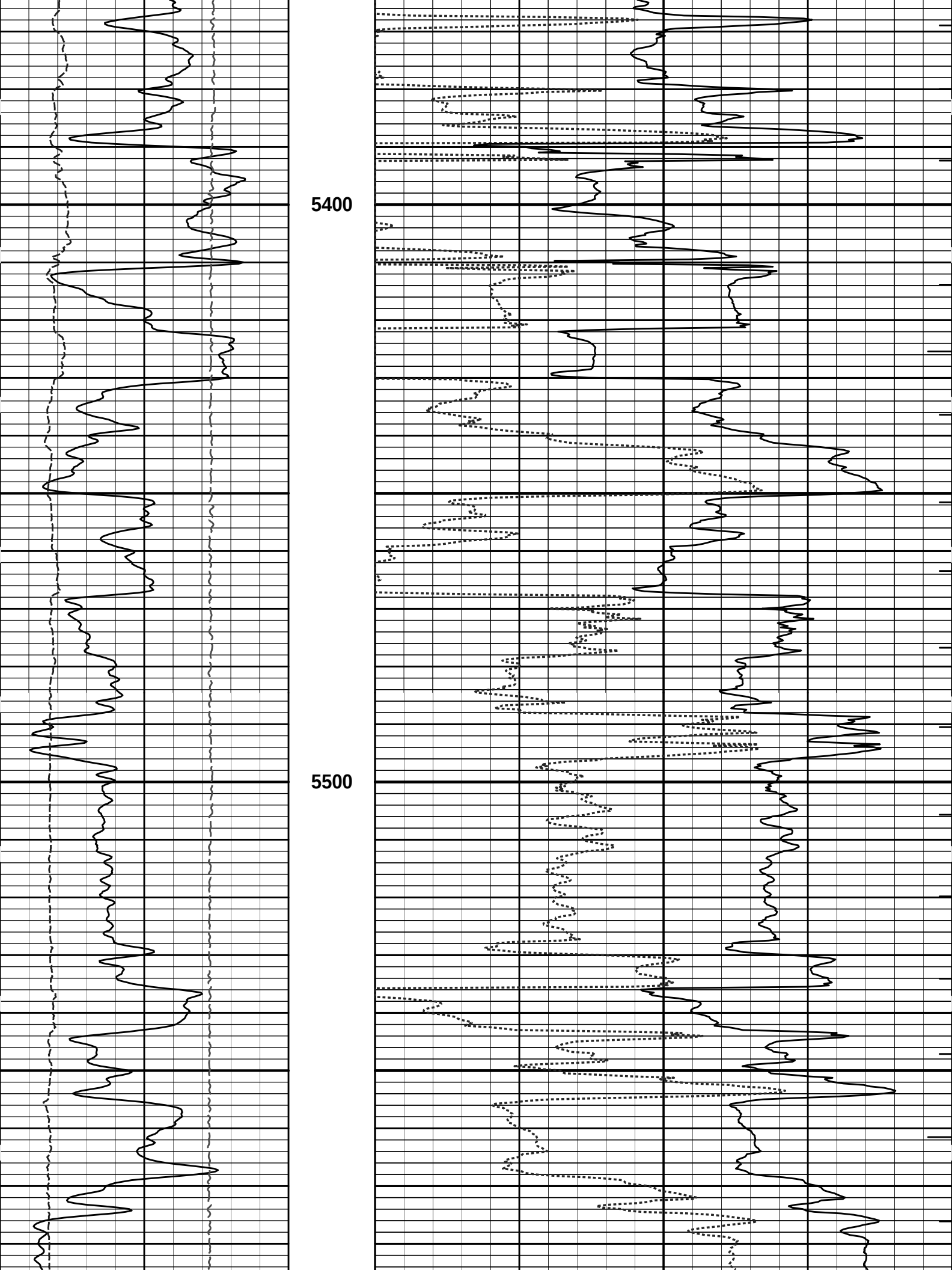
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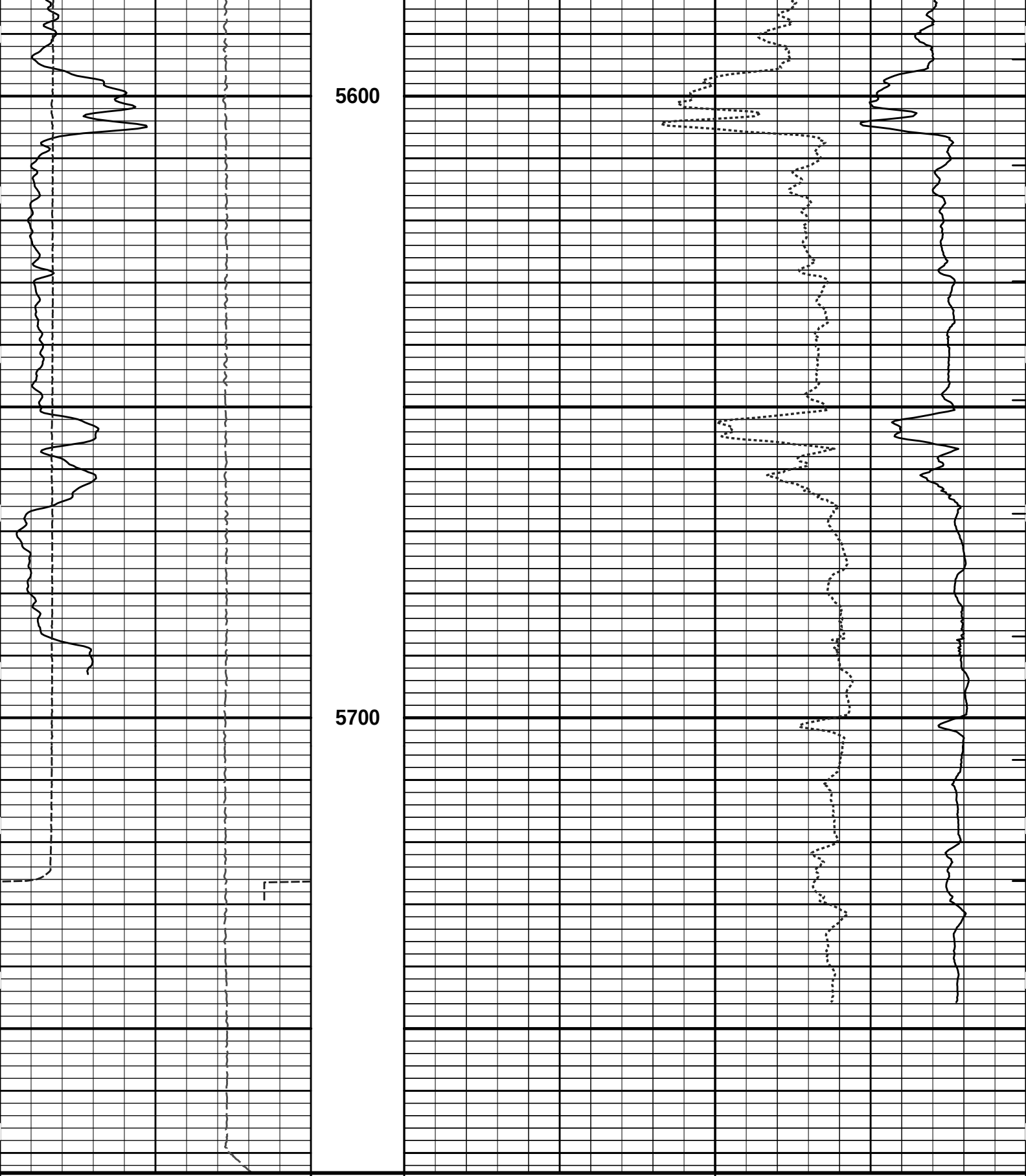

Tens 15K … 0 pounds	MD 1 : 240 ft		ITTT
Caliper 6 … 16 inches	Tension Pull 10 … 0	140 DT 40	
Gamma API 0 … 150 api	Tension Pull	30 Acou Porosity -10	microsec per ft
			percent

SHALE

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Plot Time: 02-Sep-13 06:35:20
Plot Range: 1575 ft to 5773.08 ft
Data: DEWELL B-1\Well Based\R1 CASING\
Plot File: \\BSAT\BSAT_5_MAIN_LIB

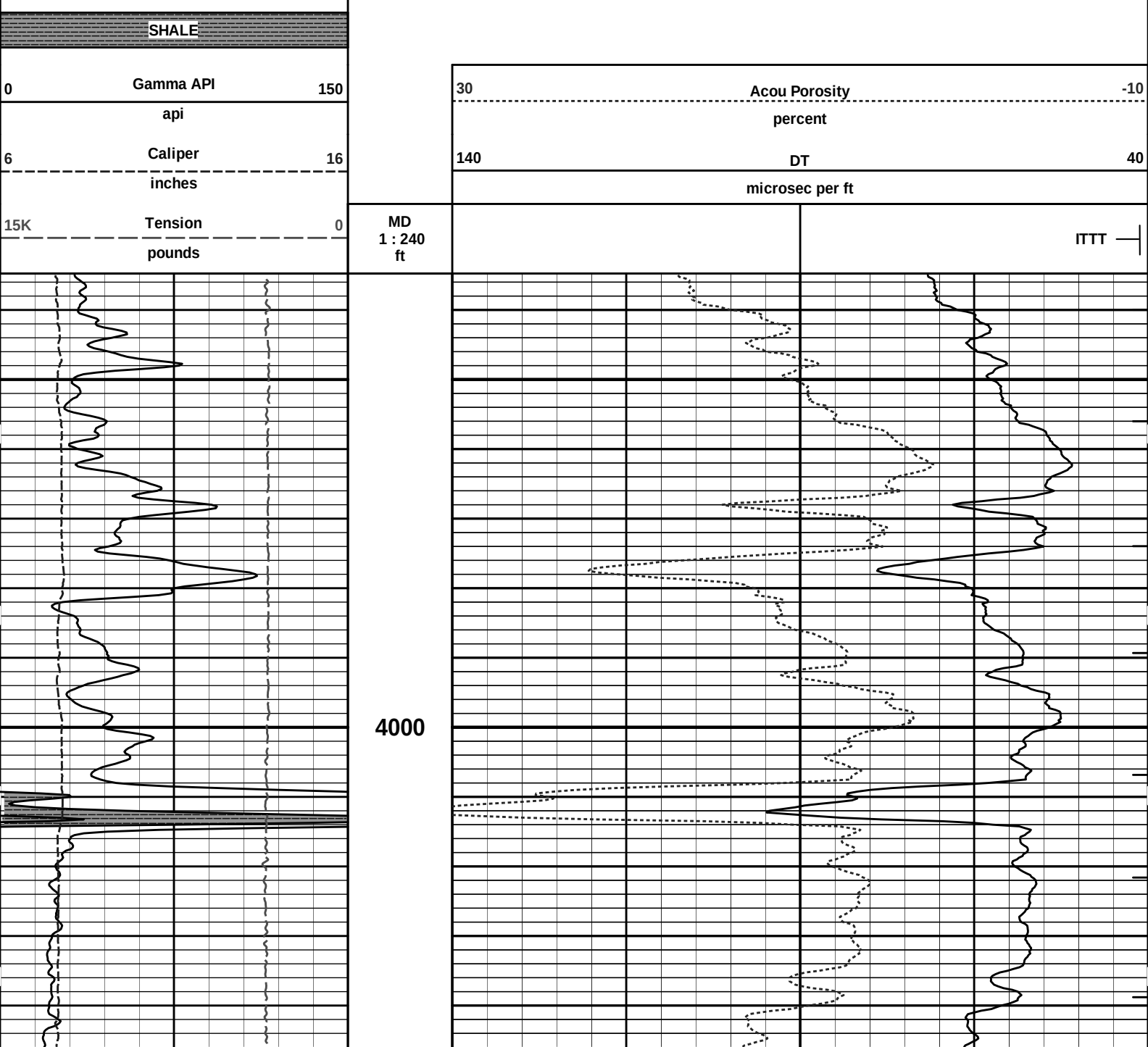
5 INCH MAIN LOG

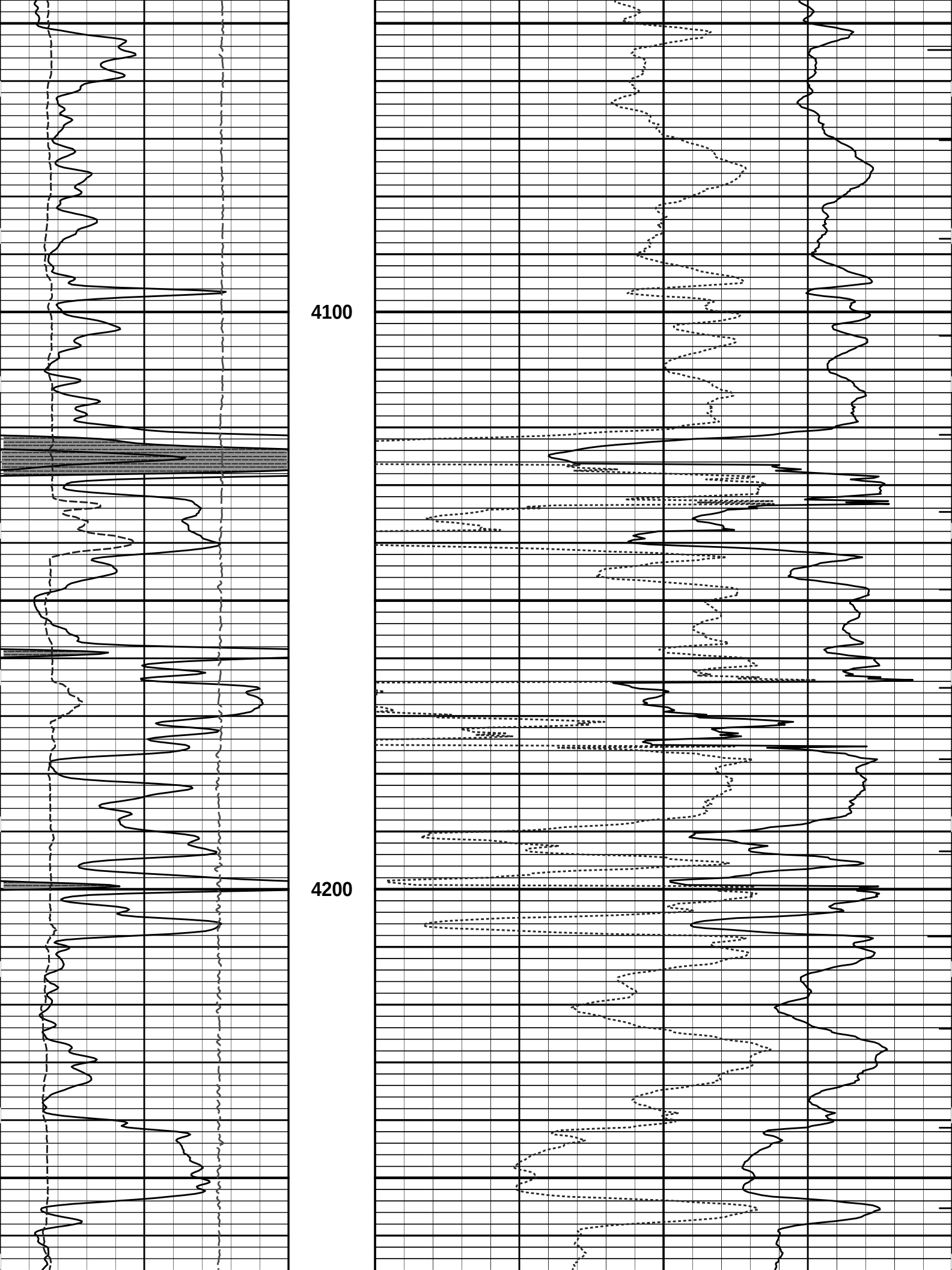
HALLIBURTON

Plot Time: 02-Sep-13 06:35:20
Plot Range: 3934.75 ft to 4400.42 ft
Data: DEWELL B-1\Well Based\R1 REPEAT\
Plot File: \\BSAT\BSAT_5_REP_LIB

REPEAT SECTION

SHALE

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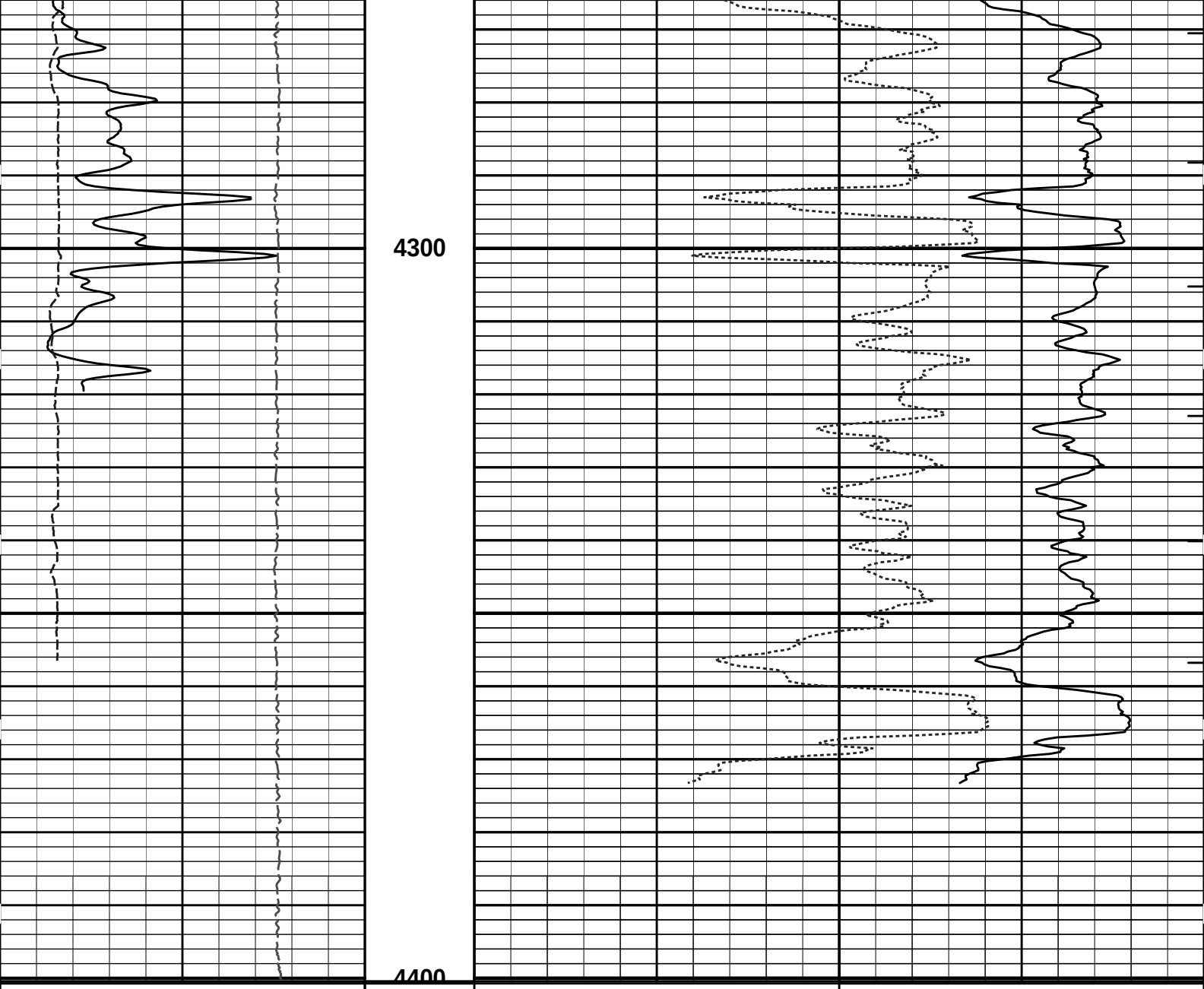

HALLIBURTON

Plot Time: 02-Sep-13 06:35:24
Plot Range: 3934.75 ft to 4400.42 ft
Data: DEWELL B-1\Well Based\R1 REPEAT\
Plot File: \\BSAT\BSAT_5_REP_LIB

REPEAT SECTION

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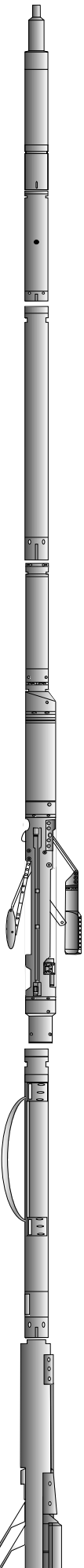
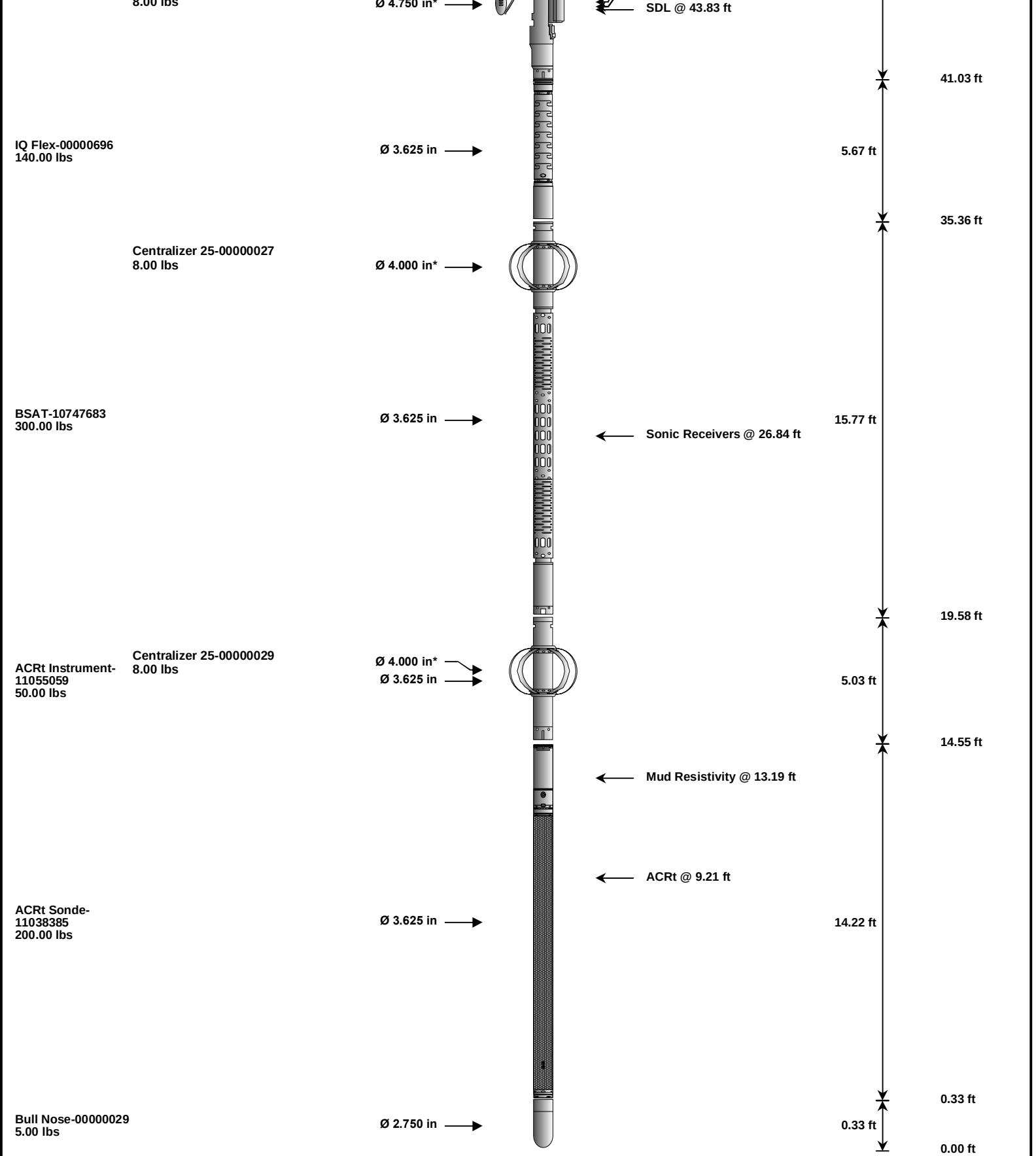
TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						96.17 ft
RWCH-12156658 135.00 lbs		Ø 3.625 in		Load Cell @ 92.49 ft BH Temperature @ 91.92 ft	6.25 ft	
						89.92 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in		SP @ 88.14 ft	3.74 ft	
						86.18 ft
GTET-11048627 165.00 lbs		Ø 3.625 in		GammaRay @ 80.12 ft	8.52 ft	
						77.66 ft
HFDT-I-11997111 435.00 lbs		Ø 4.500 in Ø 4.750 in		Receiver Upper @ 64.69 ft HFDT-I Receiver @ 64.59 ft Receiver Middle @ 64.59 ft HFDT Microlog @ 64.53 ft Receiver Lower @ 64.49 ft HFDT-I Caliper @ 64.34 ft HFDT-I Pad @ 63.81 ft	16.14 ft	
						61.53 ft
DSNT-11019643 174.00 lbs	DSN Decentralizer-10755066 6.60 lbs	Ø 5.000 in* Ø 3.625 in		DSN Far @ 54.59 ft DSN Near @ 53.84 ft	9.69 ft	
						51.84 ft
SDLT-10950489 360.00 lbs	SDLT Pad-10844781 65.00 lbs Microlog Pad-10950489	Ø 4.500 in Ø 4.750 in*		Microlog @ 44.03 ft SDL Caliper @ 43.84 ft	10.81 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		89.92	300.00
SP	SP Sub	11441455	60.00	3.74		86.18	300.00
GTET	Gamma Telemetry Tool	11048627	165.00	8.52		77.66	60.00
HFDT	High Frequency Dielectric Tool	11997111	435.00	16.14		61.53	30.00
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			**2,119.60**	**96.17**			

* Not included in Total Length and Length Accumulation.

Data: DEWELL B-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\IDLE **Date: 02-Sep-13 00:20:36**

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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	9.200	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	1.090	ohmm
	SHARED	TRM	Temperature of Mud	85.0	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	5784.00	ft
	SHARED	BHT	Bottom Hole Temperature	135.0	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
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	

HFDT-I	HFOK	Do HFDT Calculations?	Yes	
HFDT-I	RMF	Mud Filtrate Resistivity	0.93	ohmm
HFDT-I	RMFT	Temperature of Mud Filtrate	85.00	degF
HFDT-I	MDIL	Matrix Dielectric Constant	7.700	
HFDT-I	HRTC	HFDT Insite Temperature Correction Source	PADTEMP1	
HFDT-I	CLOK	Process Caliper Outputs?	Yes	
HFDT-I	SAO	SDL Backup Arm Offset	-0.20	in
HFDT-I	PAO	Pad Arm Offset	0.00	in
HFDT-I	MLOK	Process MicroLog Outputs?	No	
HFDT-I	MINO	Microlog Lateral Offset	0.00	ohmm
HFDT-I	MNOO	Microlog Normal Offset	0.00	ohmm
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: DEWELL B-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\005 02-Sep-13 02:08 Up @5774.5f **Date: 02-Sep-13 03:17:37**

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:	**SHELDON INGERSOLL**	**Calibration Date:**	**01-Sep-13 06:33:52**
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	32.9	api
Background + Calibrator	320.2	303.5	api
Calibrator	269.6	270.6	api

Shop	Field	Difference	Tolerance
269.6	270.6	-1.0	+/- 9.00

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	**SDLT - 10950489**	**Reference Calibration Date:**	**14-Aug-13 08:53:05**
Engineer:	**THOMAS HYDE**	**Calibration Date:**	**14-Aug-13 08:57:28**
Software Version:	**WL INSITE R3.8.4 (Build 5)**	**Calibration Version:**	**1**
Host Tool Name:	**DSNT - 11019643**		

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2554.79	-2495.11	-7000.00 - -1000.00
Pad Gain	0.0004067	0.0004034	0.000200 - 0.000600
Arm Offset	-926.62	-1424.54	-5000.00 - 3000.00
Arm Gain	0.0004885	0.0005585	0.000300 - 0.000700
Arm Power	-0.000004102	-0.000008458	-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)	1.99	2.00	0.01	+/- 0.20
Medium Ring (in)	3.76	3.75	-0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.47	6.50	0.03	+/- 0.20
Medium Ring (in)	8.08	8.25	0.17	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 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 - 10950489 **Reference Calibration Date:** 14-Aug-13 08:57:28

Engineer: SHELDON INGERSOLL **Calibration Date:** 01-Sep-13 06:42:11

Software Version: WL INSITE R3.8.4 (Build 5) **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.71	-0.04	+/- 0.10
Ring Diameter	8.25	8.15	-0.10	+/- 0.15

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

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11048627						
Gamma Ray Calibrator	269.6	270.6	----------	-1.0	+/- 9.00	api
SDLT-10950489						
Pad Extension	3.75	3.71	----------	0.04	+/-0.10	in
Ring Diameter	8.25	8.15	----------	0.10	+/-0.15	in

Data: DEWELL B-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\005 02-Sep-13 02:08 Up @5774.5f **Date: 02-Sep-13 03:19:44**

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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	88.14	NO	
SP	Spontaneous Potential	88.14	BLK	1.250
SPR	Raw Spontaneous Potential	88.14	NO	
SPO	Spontaneous Potential Offset	88.14	NO	
GTET				
TPUL	Tension Pull	80.12	NO	
GR	Natural Gamma Ray API	80.12	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	80.12	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	80.12	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083

DEVI	Inclination	0.00	NO	
	HFDT-I			
TPUL	Tension Pull	64.59	NO	
IUXU	HFDT Insite In-phase Component of Upper Receiver - TXUon TXLoff	64.59	NO	
QUXU	HFDT Insite Quadrture Component of Upper Receiver - TXUon TXLof	64.59	NO	
IMXU	HFDT Insite In-phase Component of Middle Receiver TXUon TXLoff	64.59	NO	
QMXU	HFDT Insite Quadrture Component of Middle Receiver TXUon TXLof	64.59	NO	
ILXU	HFDT Insite In-phase Component of Lower Receiver TXUon TXLoff	64.59	NO	
QLXU	HFDT Insite Quadrture Component of Lower Receiver TXUon TXLoff	64.59	NO	
IUXL	HFDT Insite In-phase Component of Upper Receiver TXUoff TXLon	64.59	NO	
QUXL	HFDT Insite Quadrture Component of Upper Receiver TXUoff TXLon	64.59	NO	
IMXL	HFDT Insite In-phase Component of Middle Receiver TXUoff TXLon	64.59	NO	
QMXL	HFDT Insite Quadrture Component of Middle Receiver TXUoff TXLo	64.59	NO	
ILXL	HFDT Insite In-phase Component of Lower Receiver TXUoff TXLon	64.59	NO	
QLXL	HFDT Insite Quadrture Component of Lower Receiver TXUoff TXLon	64.59	NO	
TEX1	HFDTInsite External Pad Temperature Measurement 1	63.81	NO	
TEX2	HFDTInsite External Pad Temperature Measurement 2	63.81	NO	
STAT	HFDT Insite Pad Status Word	64.59	NO	
TPUL	Tension Pull	64.34	NO	
PCAL	Pad Caliper	64.34	TRI	0.250
ACAL	Arm Caliper	64.34	TRI	0.250
TPUL	Tension Pull	64.53	NO	
MINV	Microlog Lateral	64.53	BLK	0.750
MNOR	Microlog Normal	64.53	BLK	0.750
	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: DEWELL B-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\005 02-Sep-13 02:08 Up @5774.5f **Date: 02-Sep-13 03:16:59**

COMPANY	**OXY USA INC.**		
WELL	**DEWELL B-1**		
FIELD	**VICTORY**		
COUNTY	**HASKELL**	STATE	**KANSAS**

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BOREHOLE COMPENSATED SONIC ARRAY LOG