

HALLIBURTON

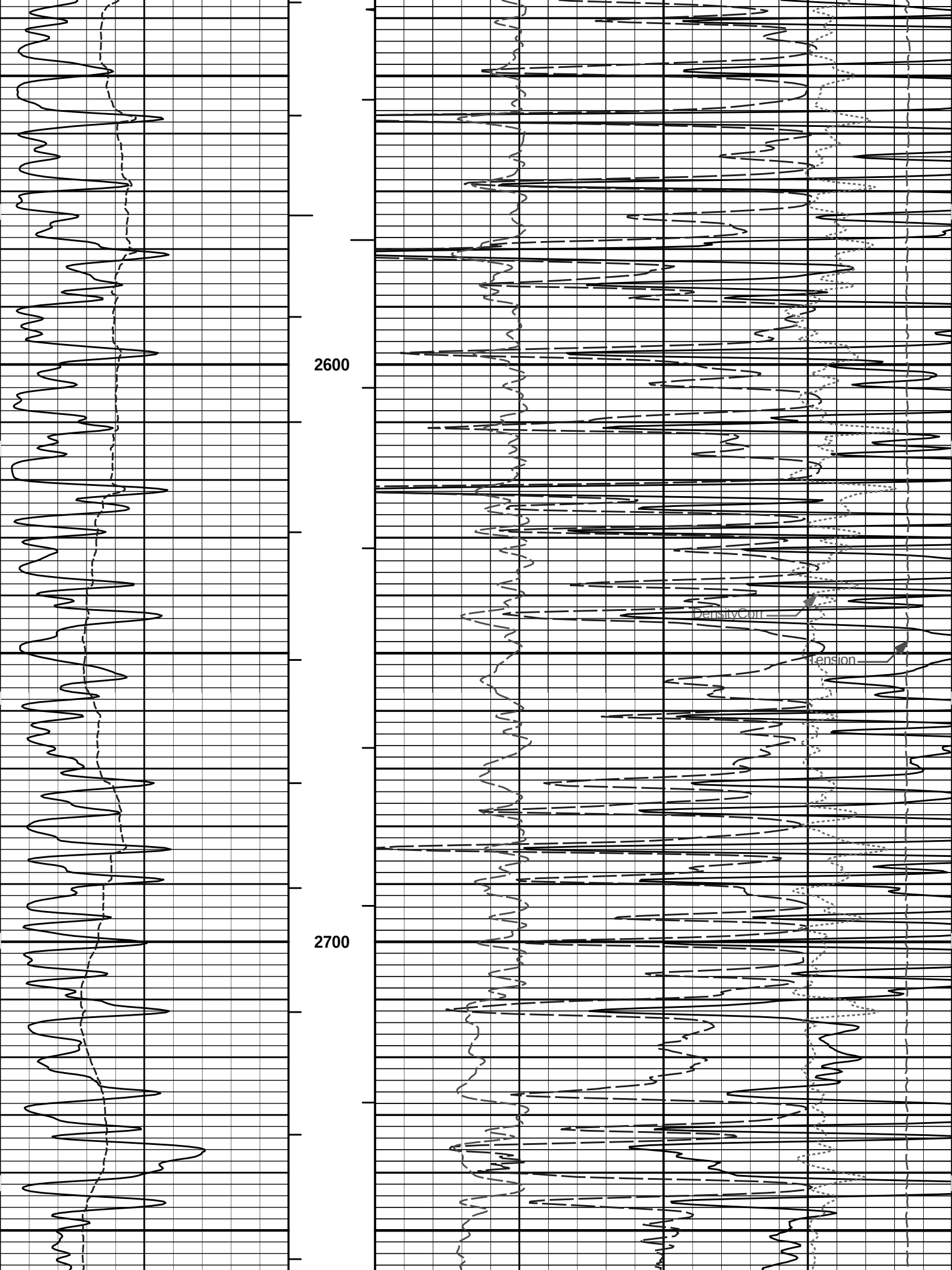
DUAL SPACED NEUTRON SPECTRAL DENSITY LOG

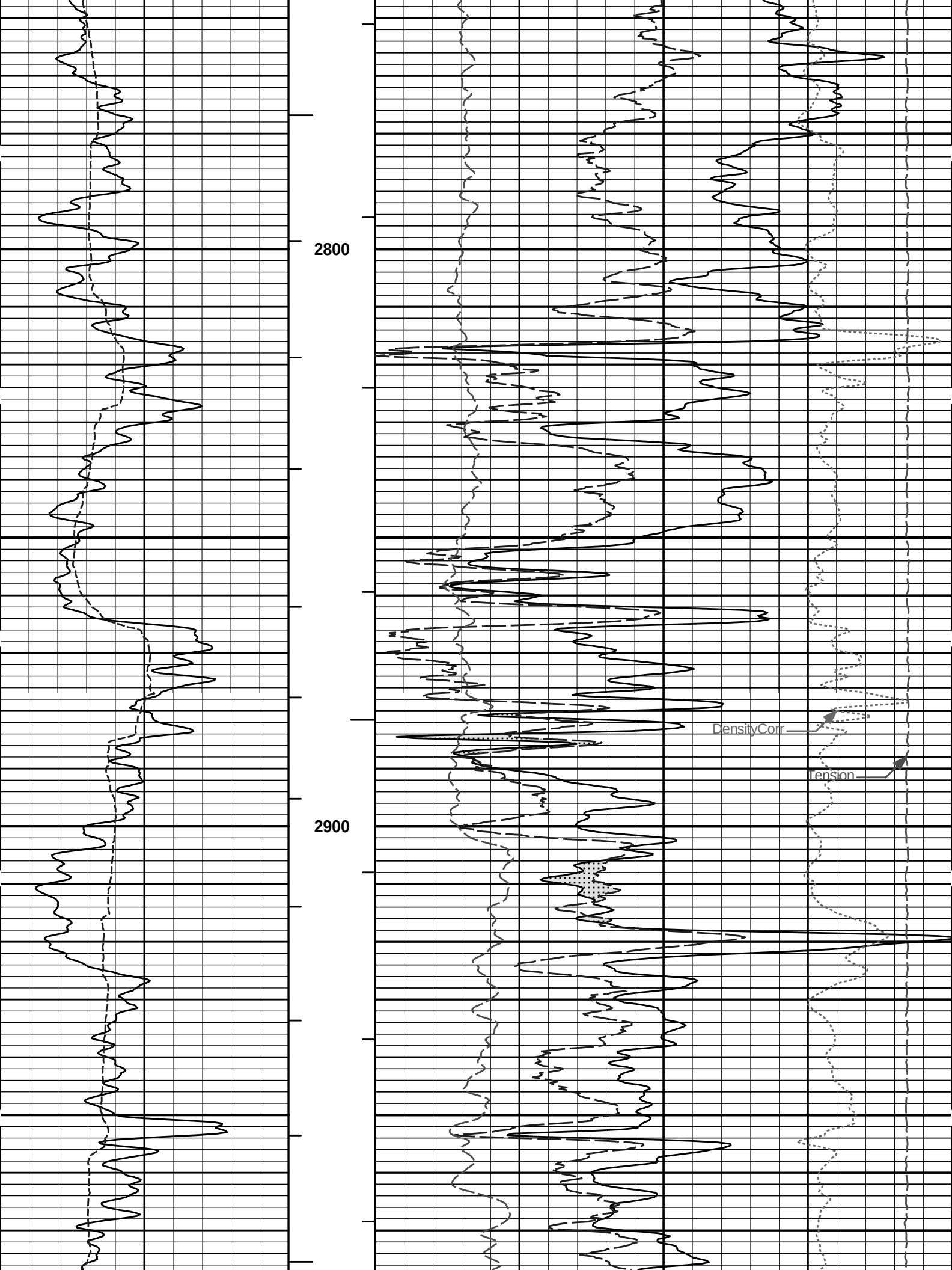
COMPANY		EVANS ENERGY LLC.	
WELL		ANGELL #4-6	
FIELD		ANGELL	
COUNTY		MEADE	
STATE		KANSAS	
Permanent Datum		GL	Elev. 2707.0 ft
Log measured from		KB	D.F. 2715.0 ft
Drilling measured from		KB	G.L. 2707.0 ft
Date		18-Nov-12	
Run No.		ONE	
Depth - Driller		6200.00 ft	
Depth - Logger		6197.0 ft	
Bottom - Logged Interval		6175	
Top - Logged Interval		2500	
Casing - Driller		8.625 in @ 1620.0 ft	@
Casing - Logger		1619.0 ft	
Bit Size		7.875 in	@
Type Fluid in Hole		WATER BASED MUD	
Density	Viscosity	9.2 ppq	58.00 s/qt
PH	Fluid Loss	9.50 pH	10.4 cpm
Source of Sample		MUD PIT	
Rm @ Meas. Temperature		1.300 ohmm @ 80.00 degF	@
Rmf @ Meas. Temperature		1.00 ohmm @ 72.00 degF	@
Rmc @ Meas. Temperature		1.700 ohmm @ 72.00 degF	@
Source Rmf	Rmc	MEASURED	MEASURED
Rm @ BHT		0.84 ohmm @ 127.0 degF	@
Time Since Circulation		5.0 hr	
Time on Bottom		18-Nov-12 13:05	
Max. Rec. Temperature		127.0 degF @ 6197.0 ft	@
Equipment	Location	10546696	LIBERAL
Recorded By		S. INGERSOLL	
Witnessed By		E. GRIEVES	

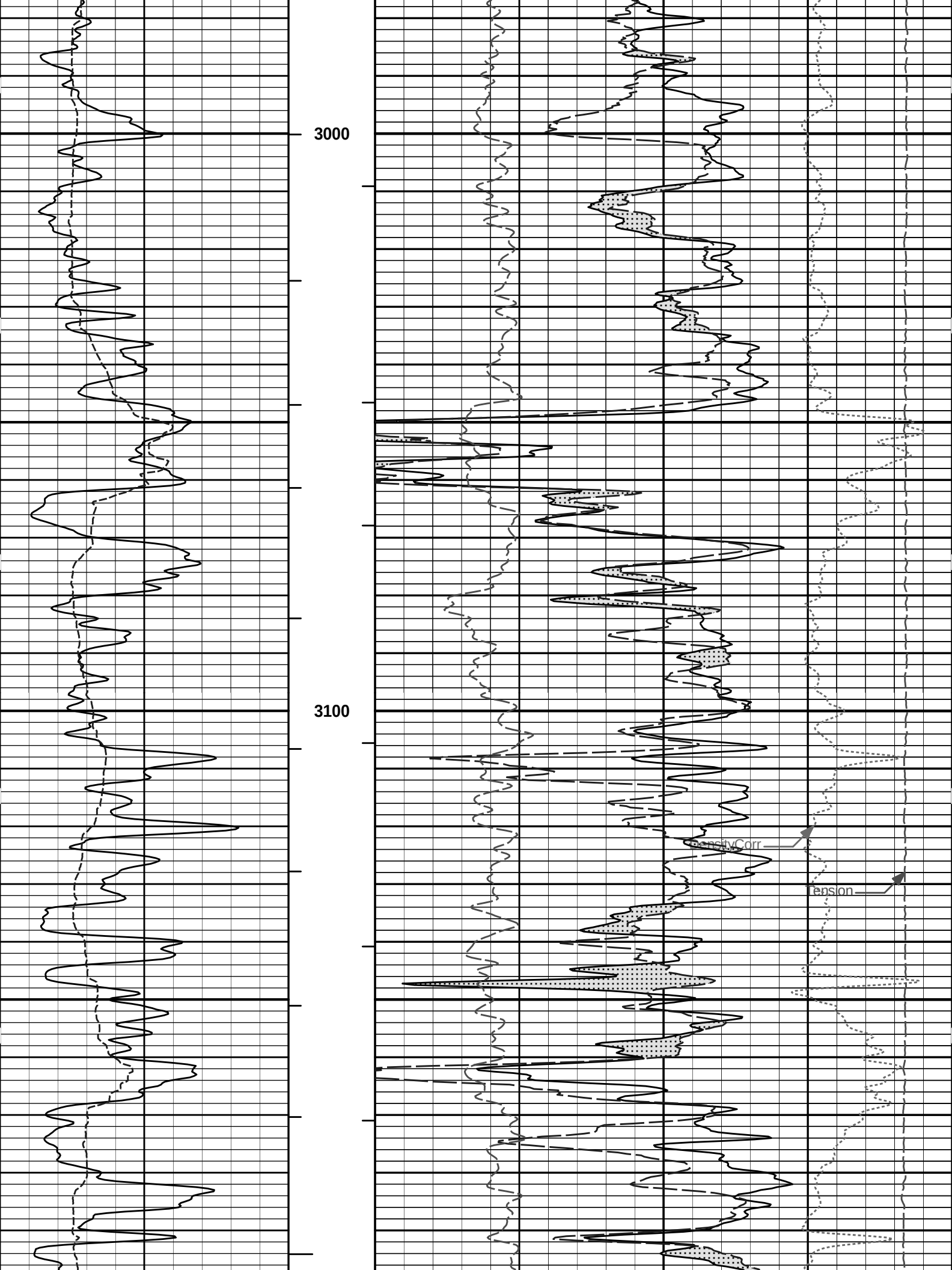
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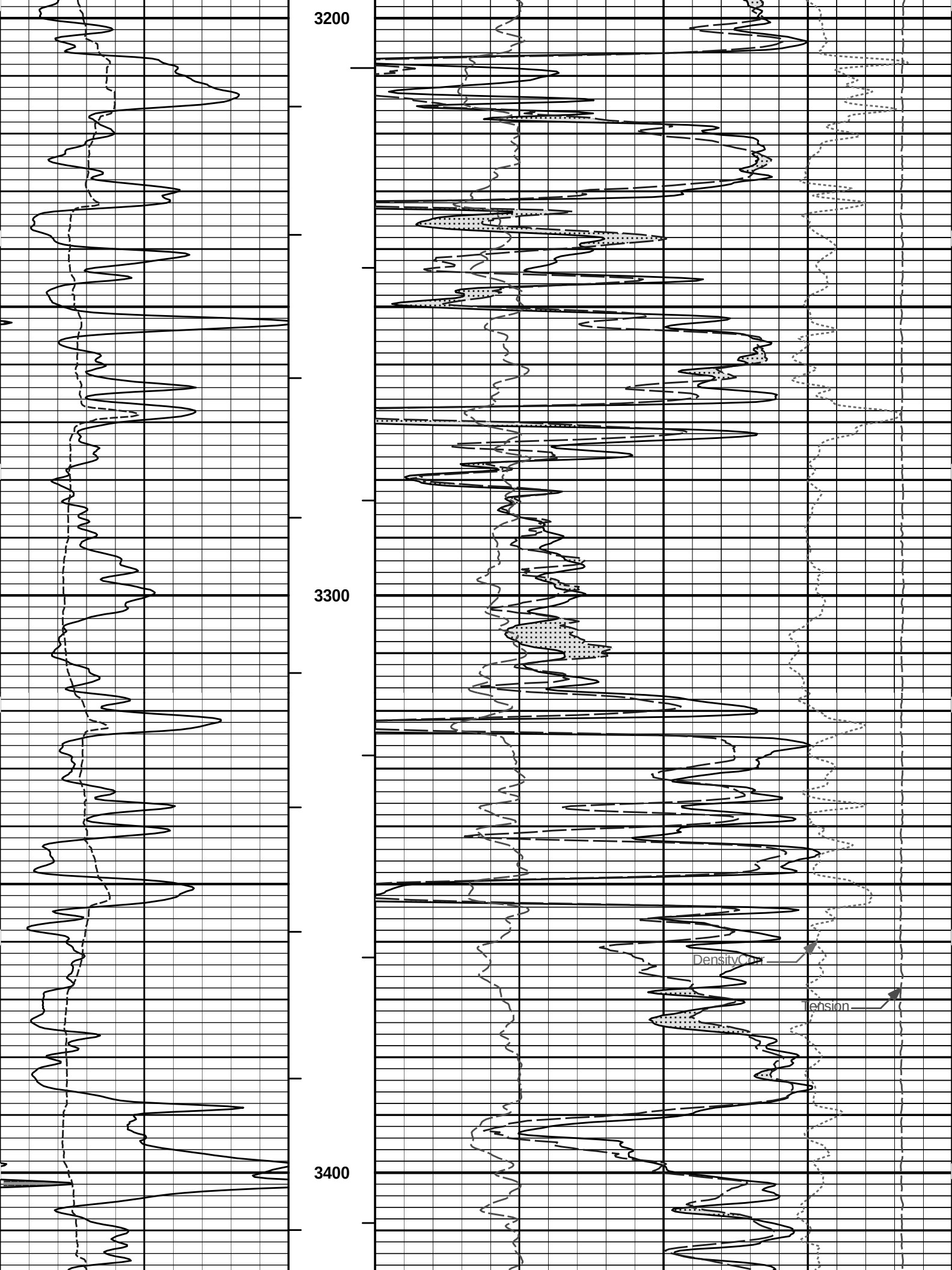
Service Ticket No.: 900009270				API Serial No.: 15-119-21326				PGM Version: WL INSITE R3.6.0 (Build 3)						
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES								
Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole					
Depth-Driller														
Type Fluid in 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	1.5" S.O.					
Rmc @ Meas. Temp.		@		@			11005909							
Source Rmf	Rmc													
Rm @ BHT		@		@										
Rmf @ BHT		@		@										
Rmc @ BHT		@		@										
EQUIPMENT DATA														
GAMMA			ACOUSTIC			DENSITY			NEUTRON					
Run No.	ONE		Run No.			Run No.	ONE		Run No.	ONE				
Serial No.	11039640		Serial No.			Serial No.	11014296		Serial No.	11055304				
Model No.	GTET		Model No.			Model No.	SDLT		Model No.	DSNT				
Diameter	3.625"		No. of Cent.			Diameter	4.5"		Diameter	3.625"				
Detector Model No.	GTET		Spacing			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	NA		FWDA [Y/N]			Strength	1.5 CI		Strength	15 CI				
LOGGING DATA														
GENERAL			GAMMA			ACOUSTIC			DENSITY			NEUTRON		

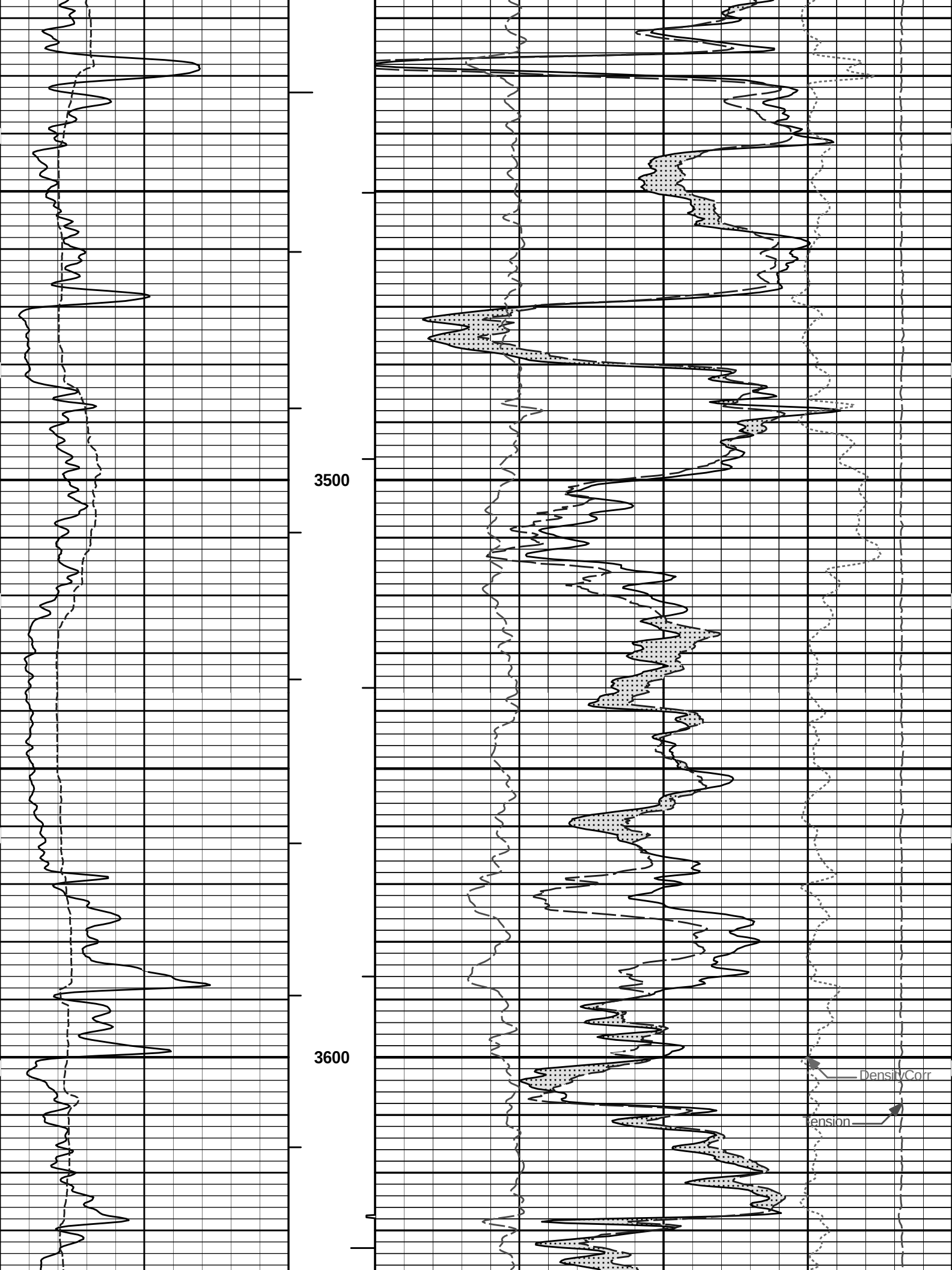
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON							
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix		
No.	From	To	ft/min	L	R	L	R		L	R		L	R			
ONE	6197	1619	REC	0	150				30	-10	2.71 gm/cc	30	-10	LIME		
DIRECTIONAL INFORMATION																
Maximum Deviation								@	KOP							@
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.																
CHLORIDES REPORTED AT 6300 ppm.																

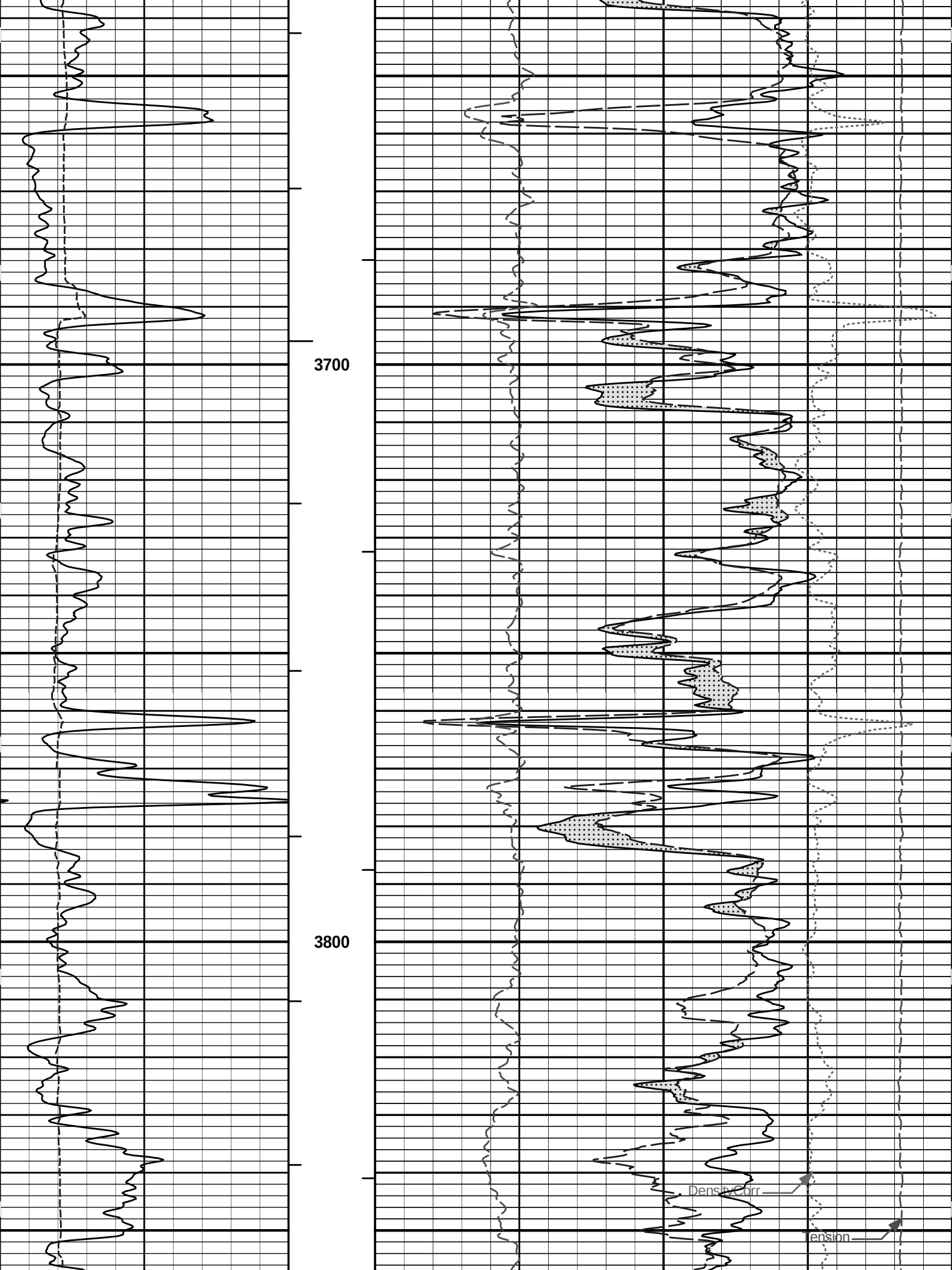


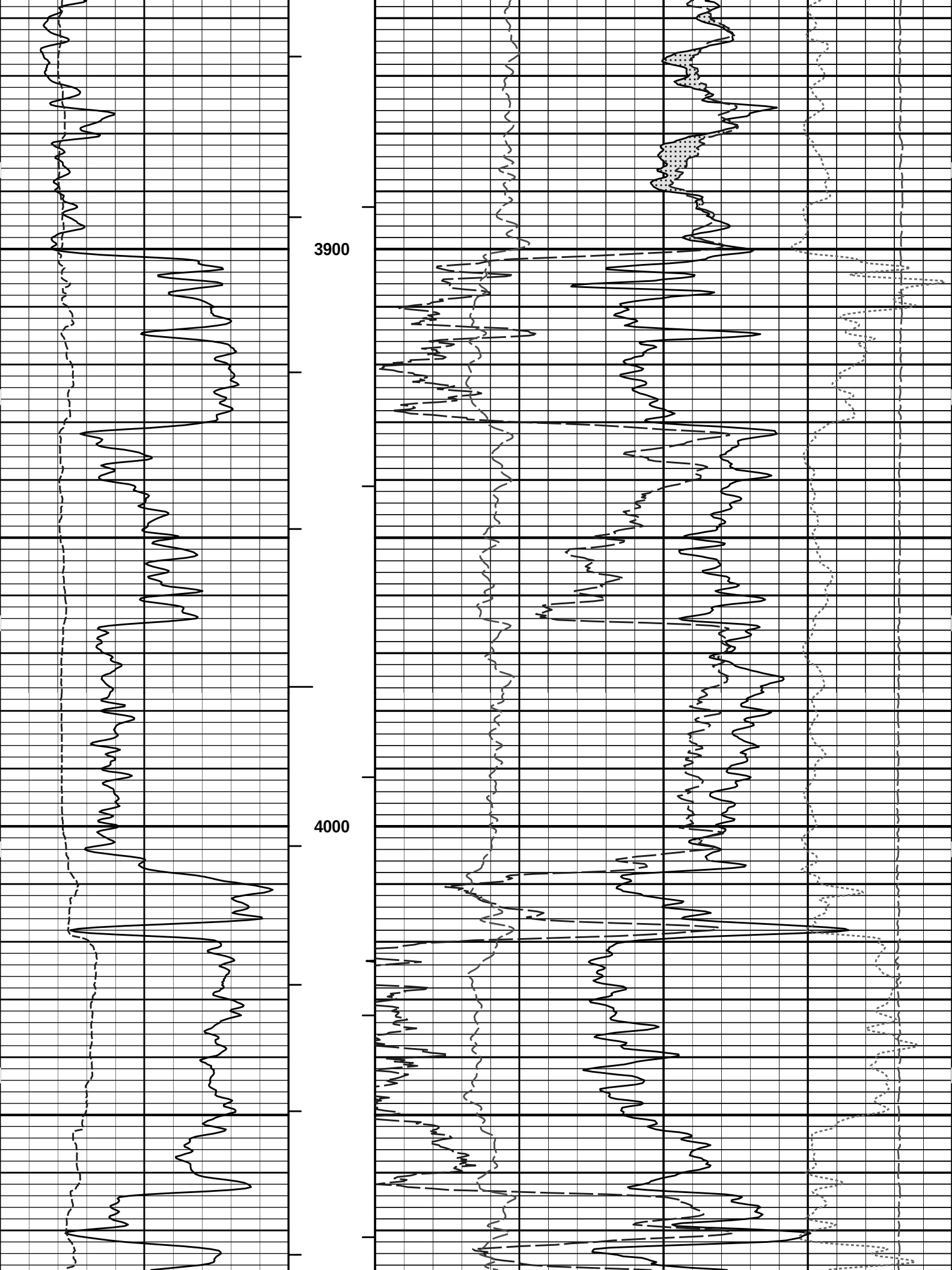


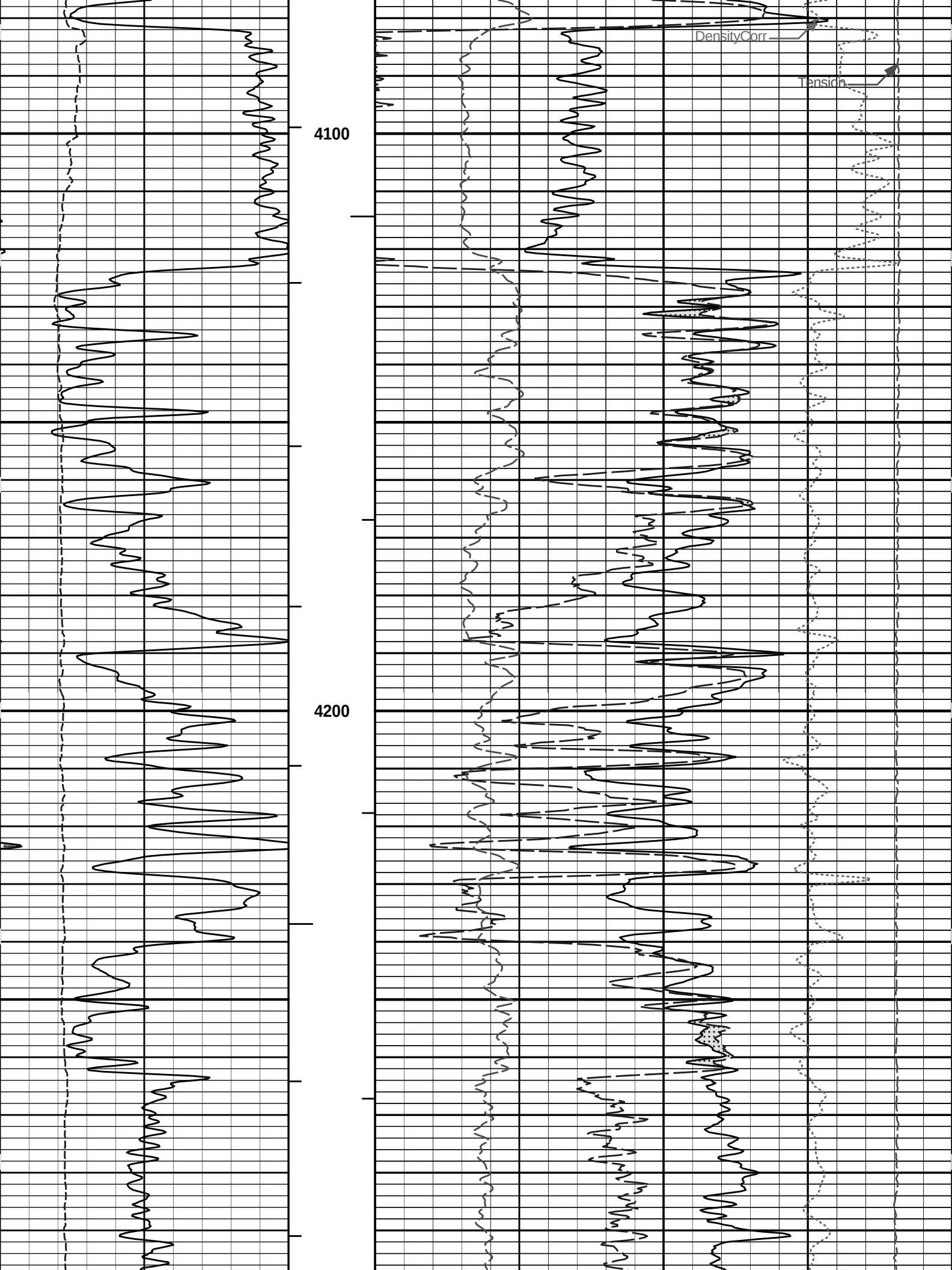


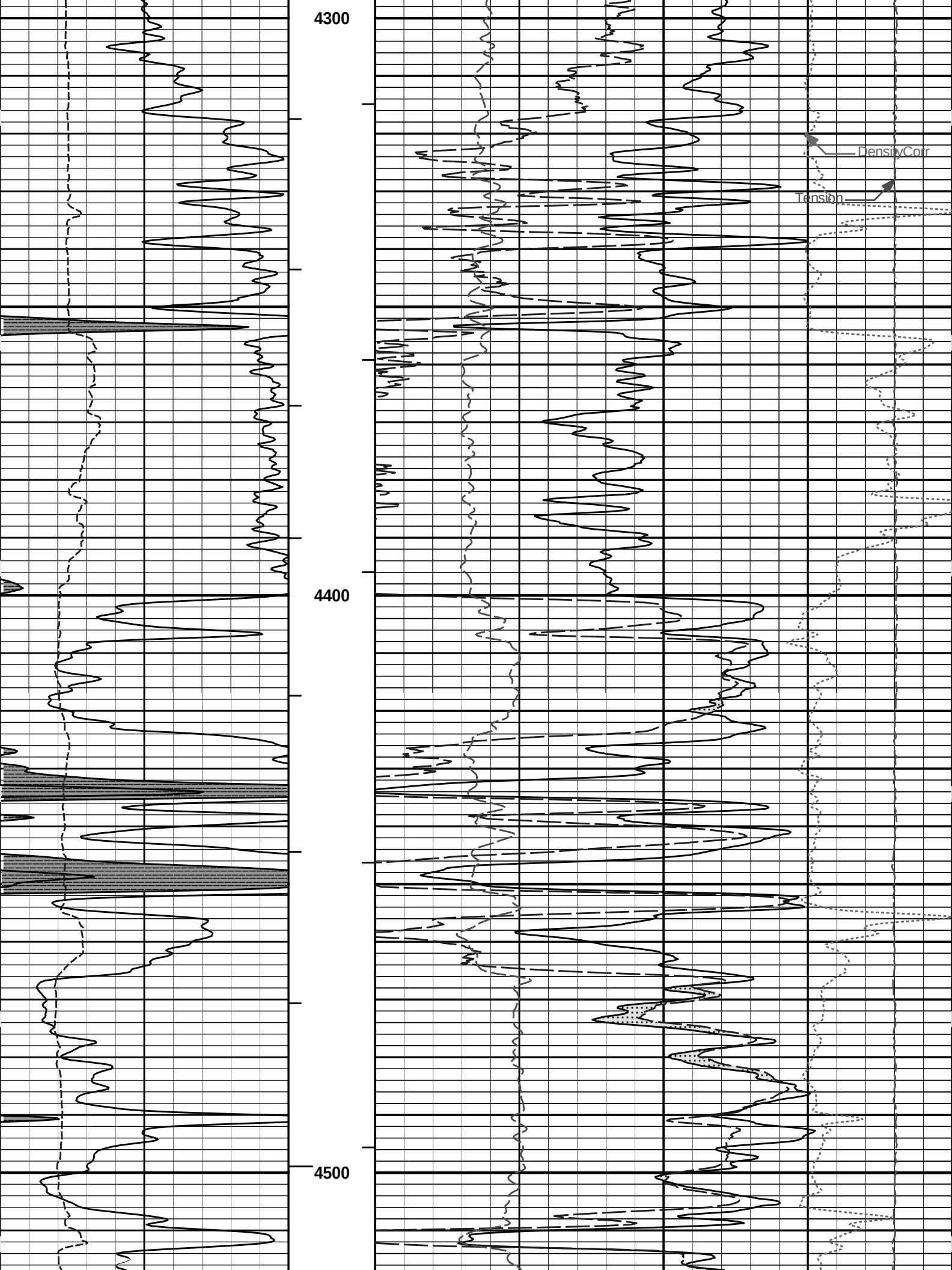


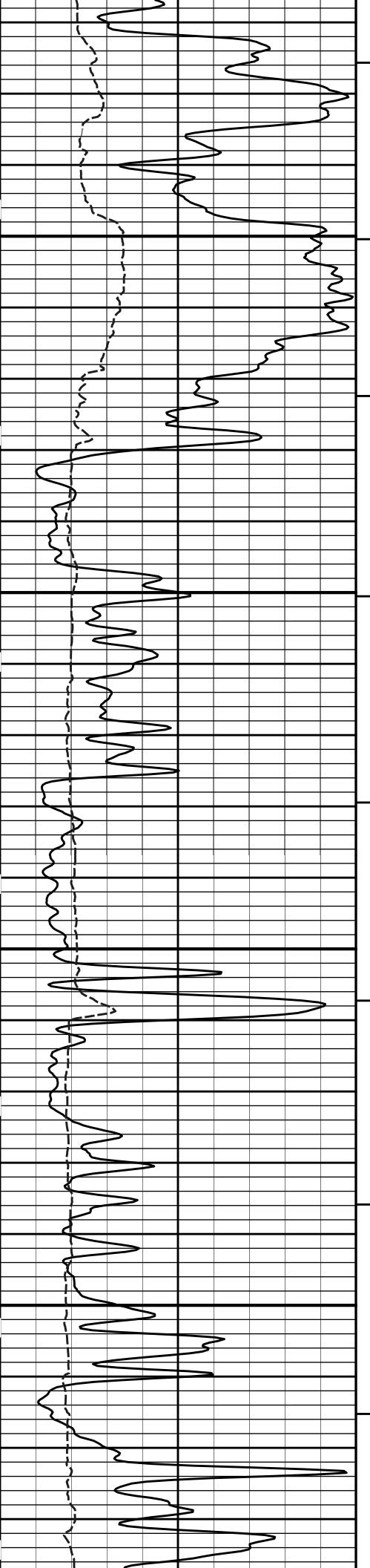






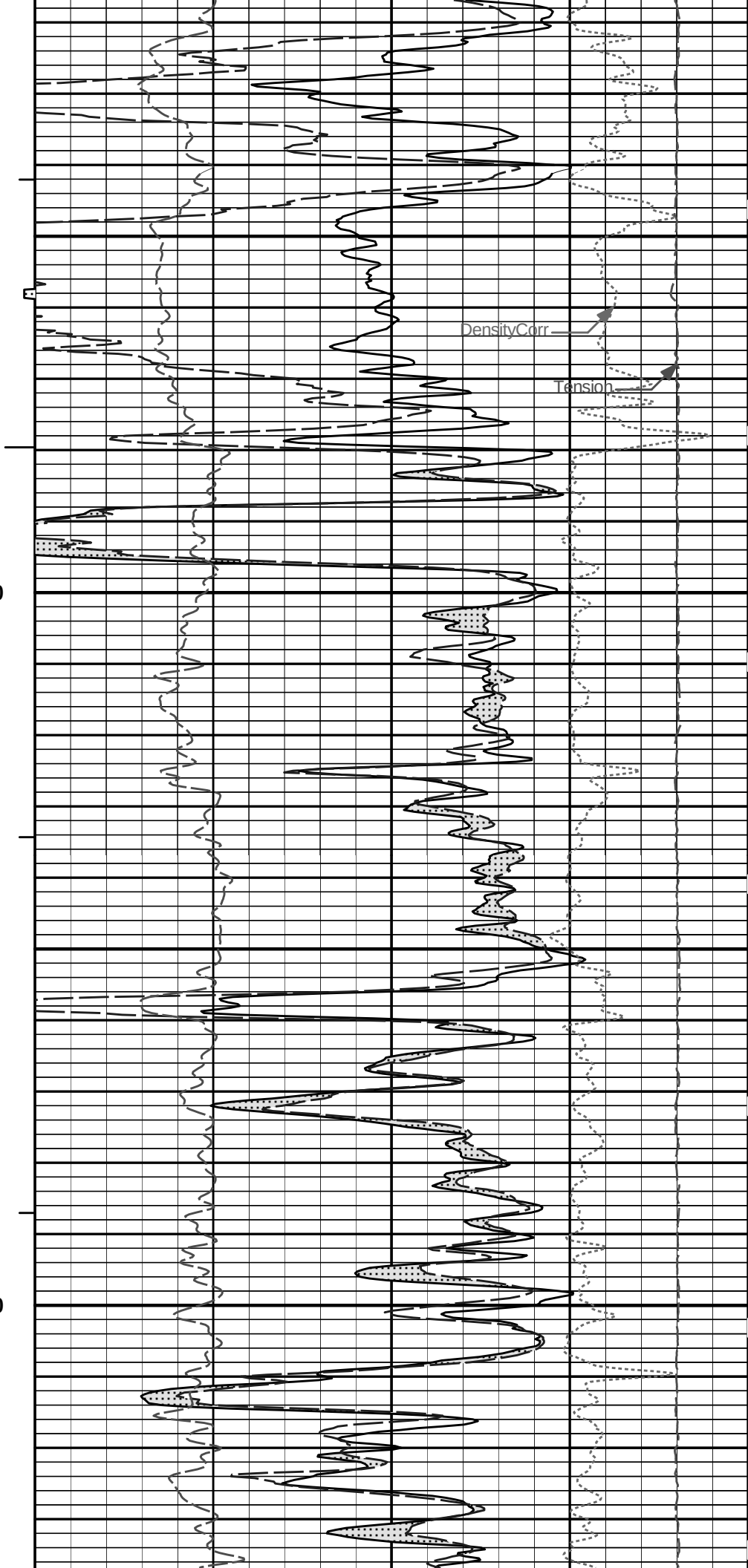


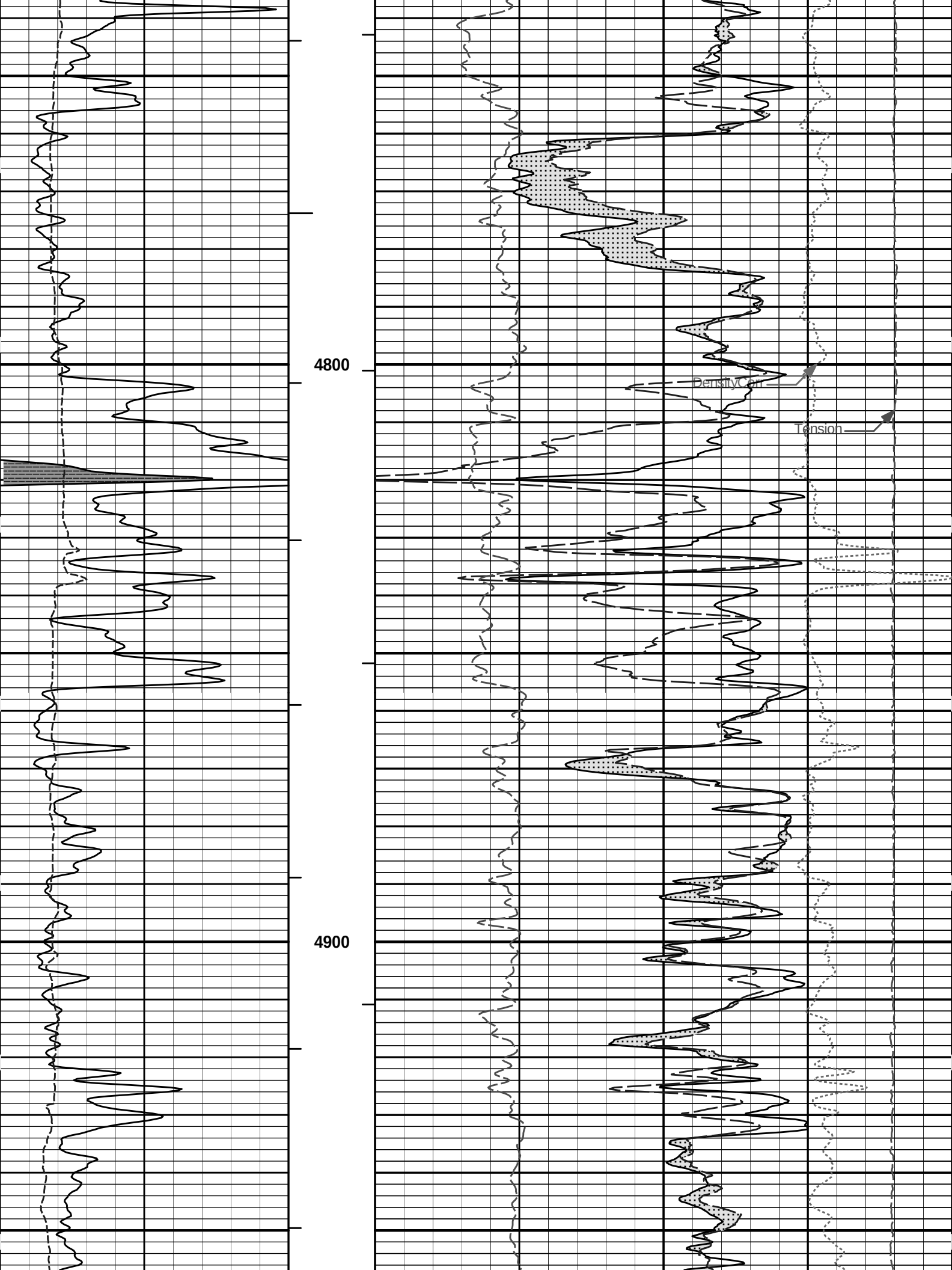


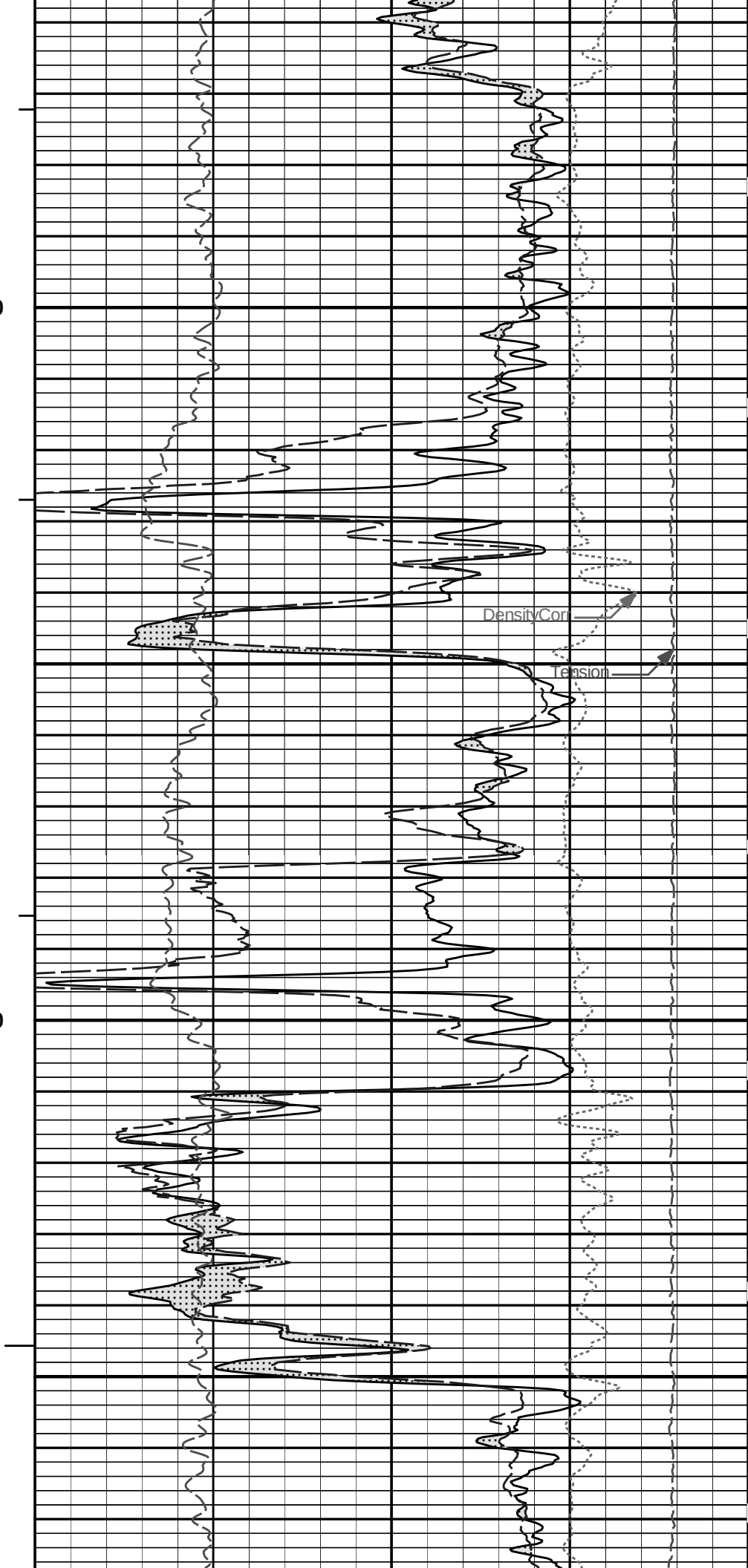
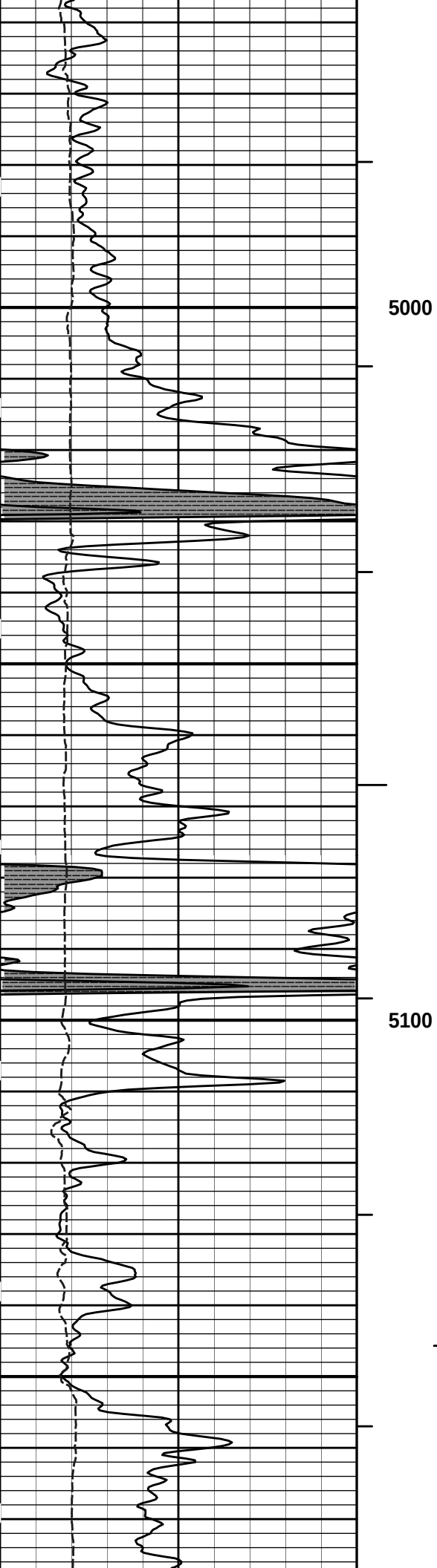


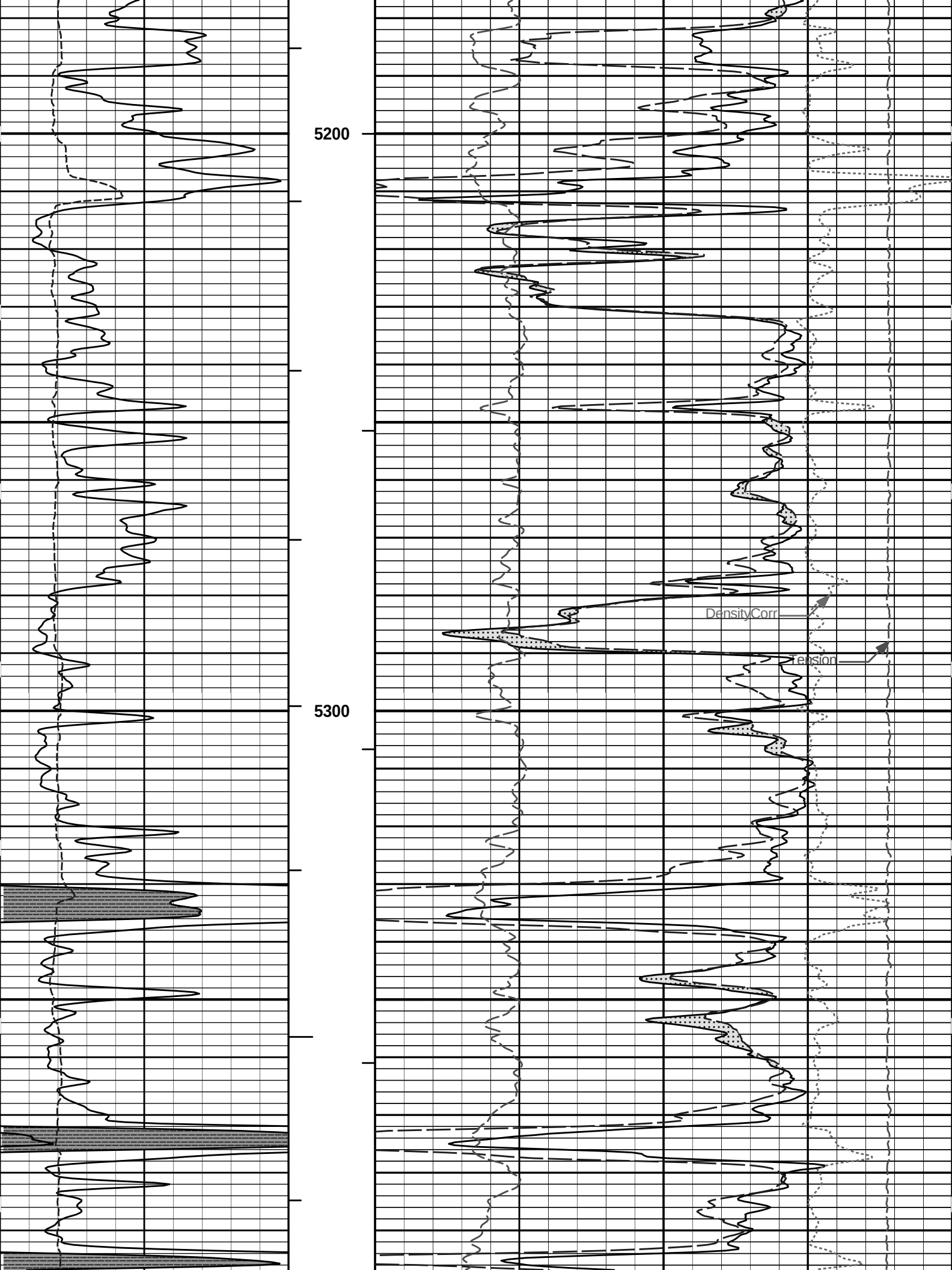
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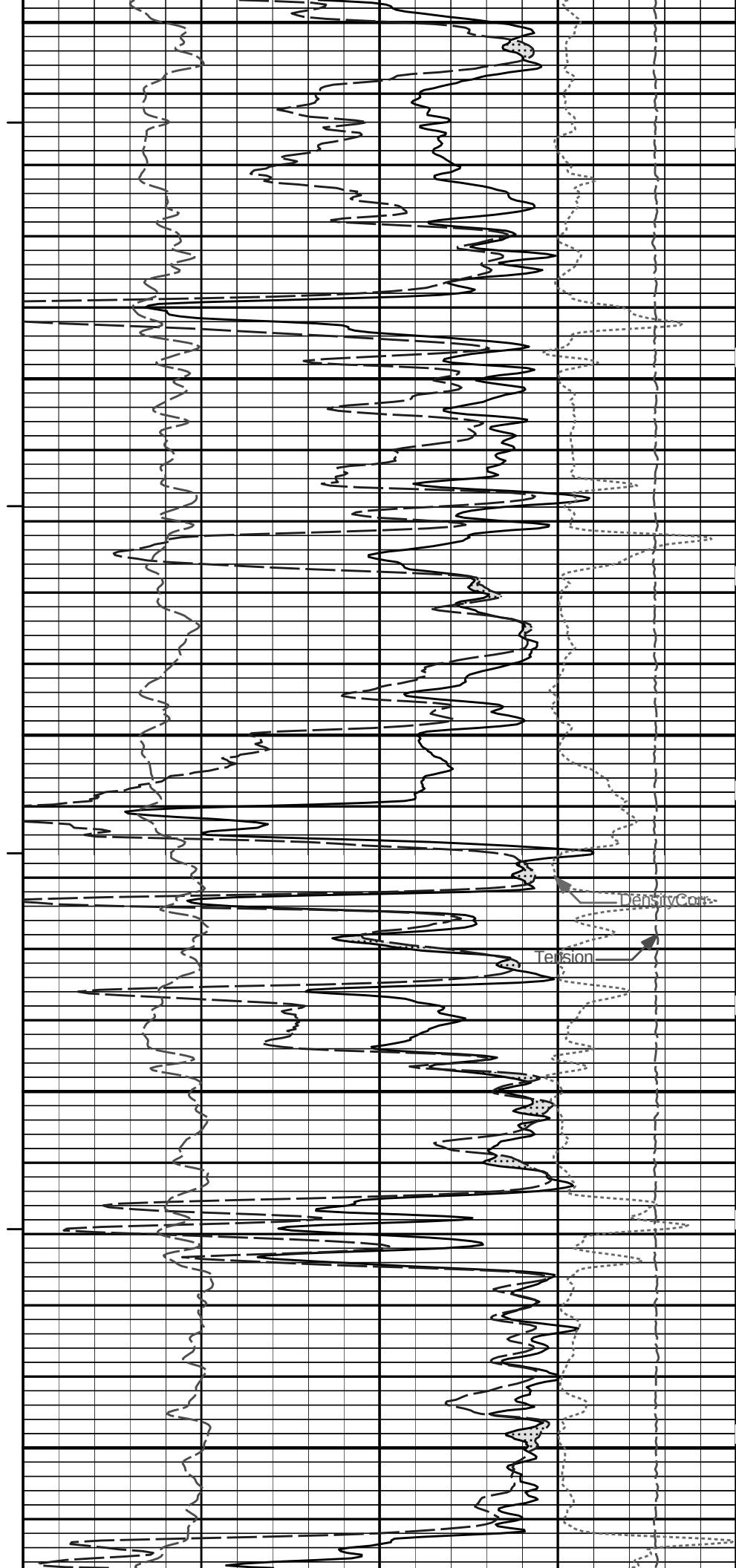
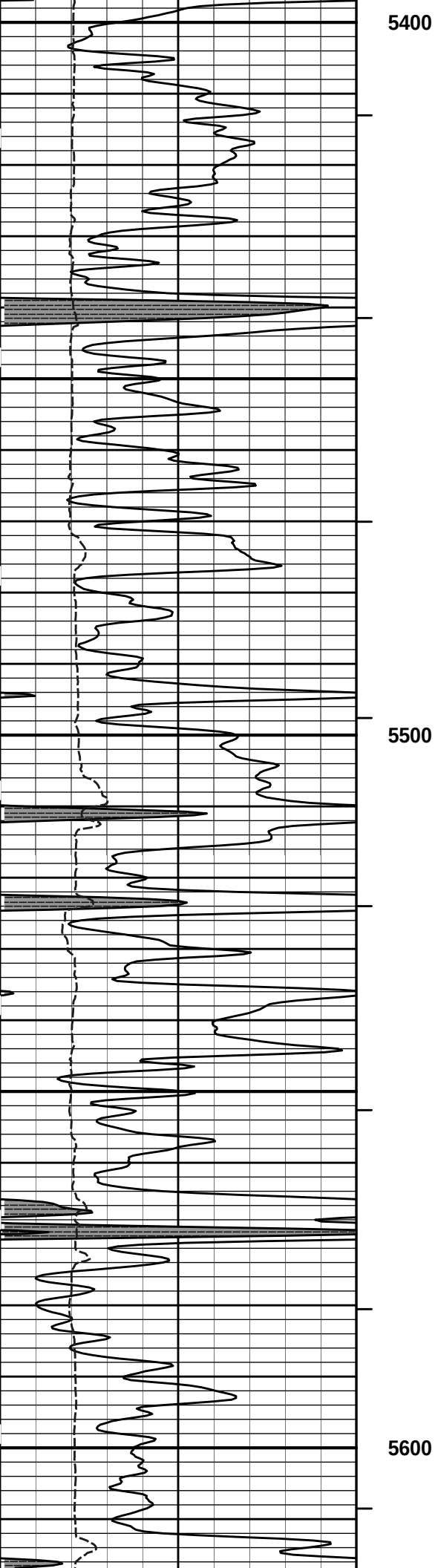
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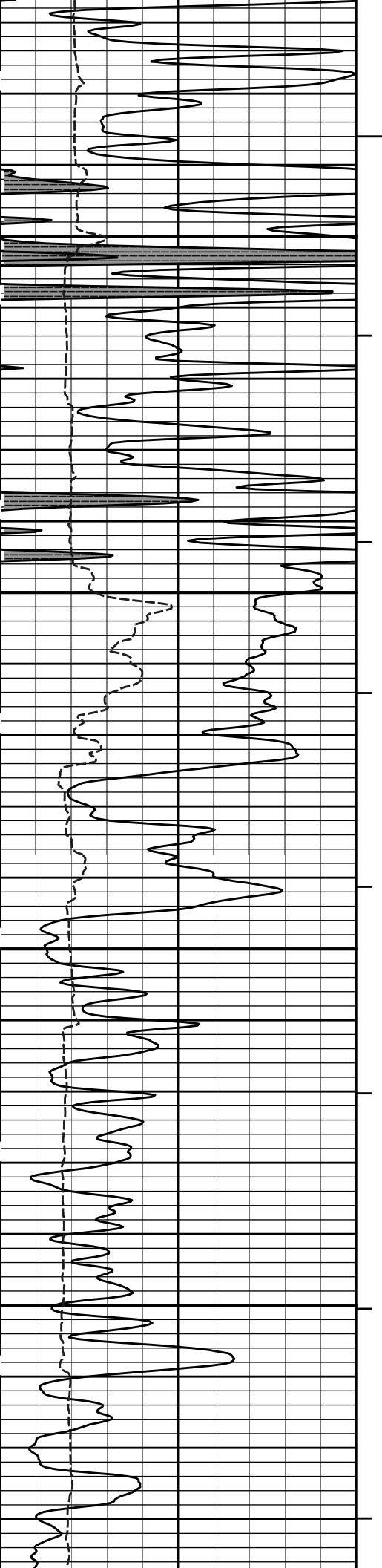






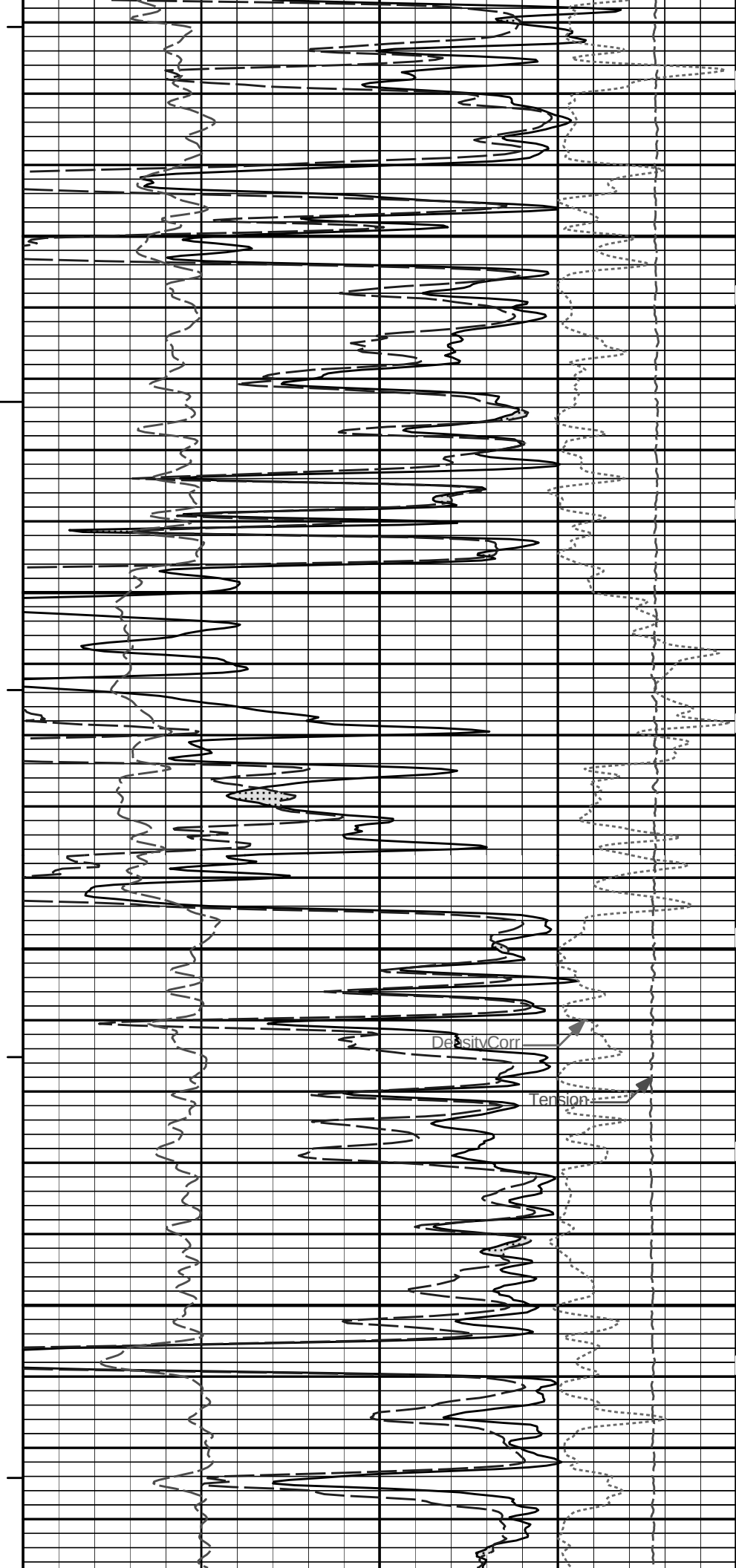






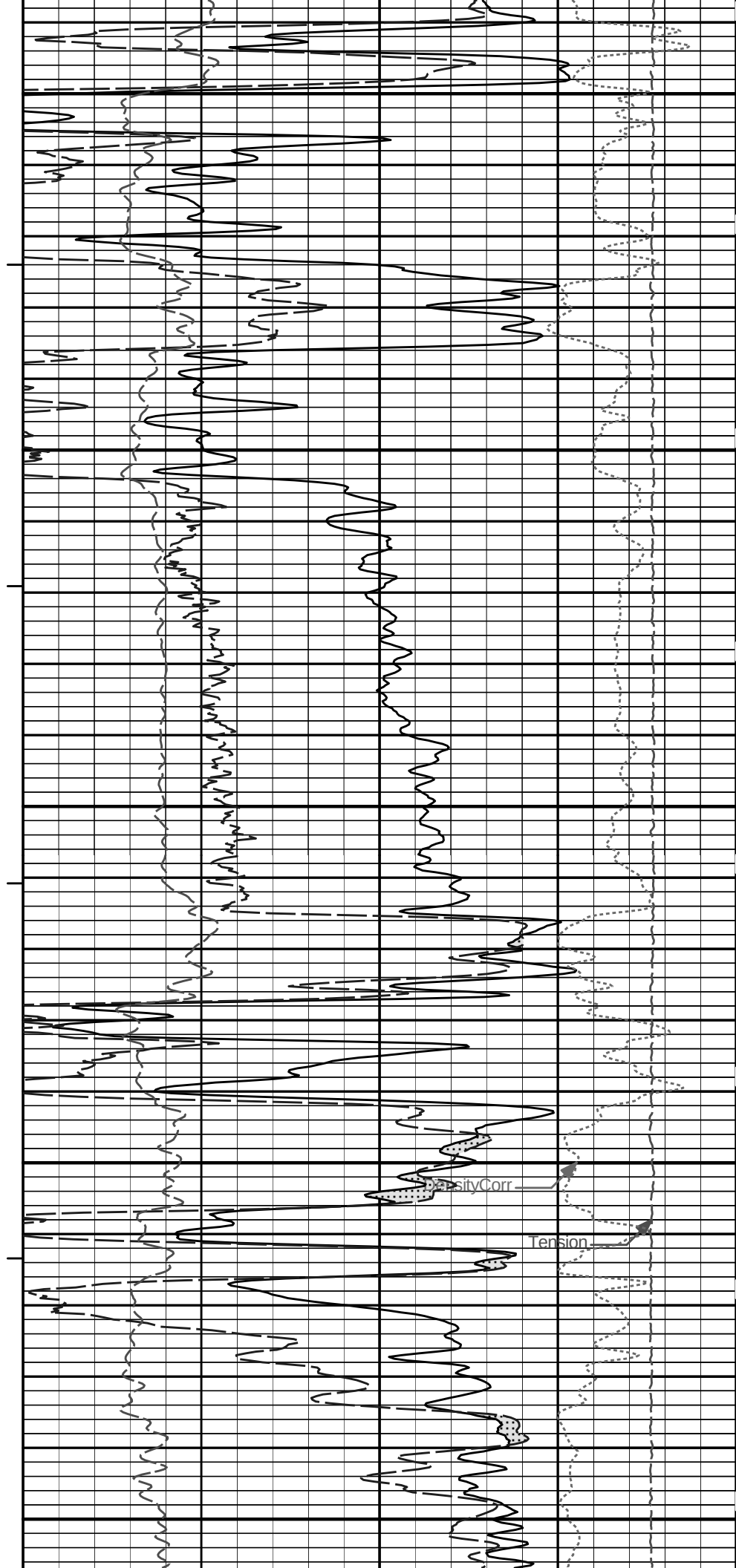
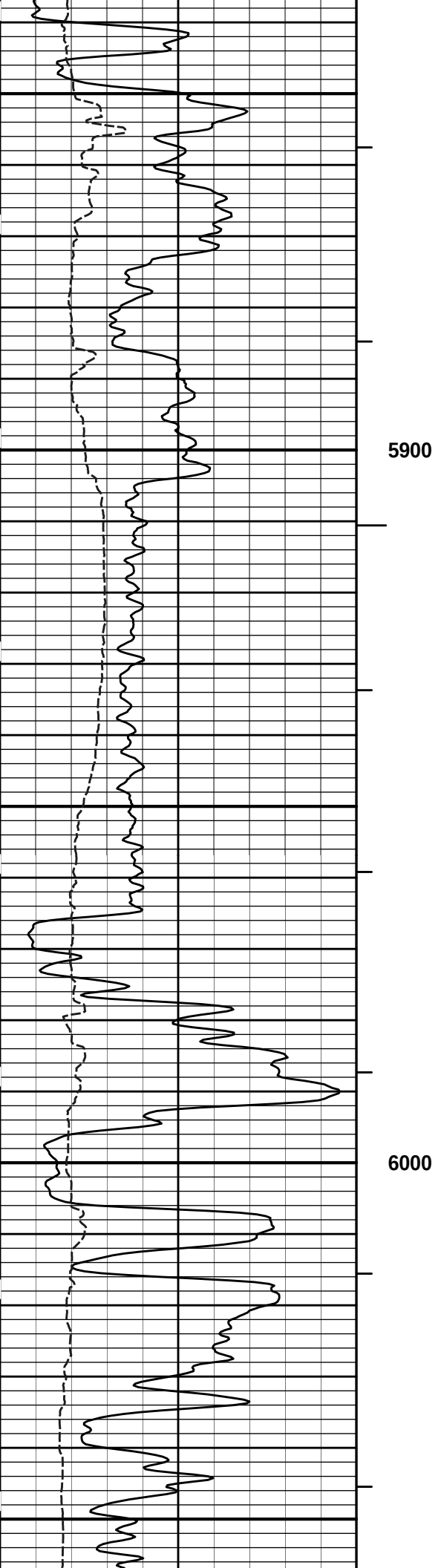
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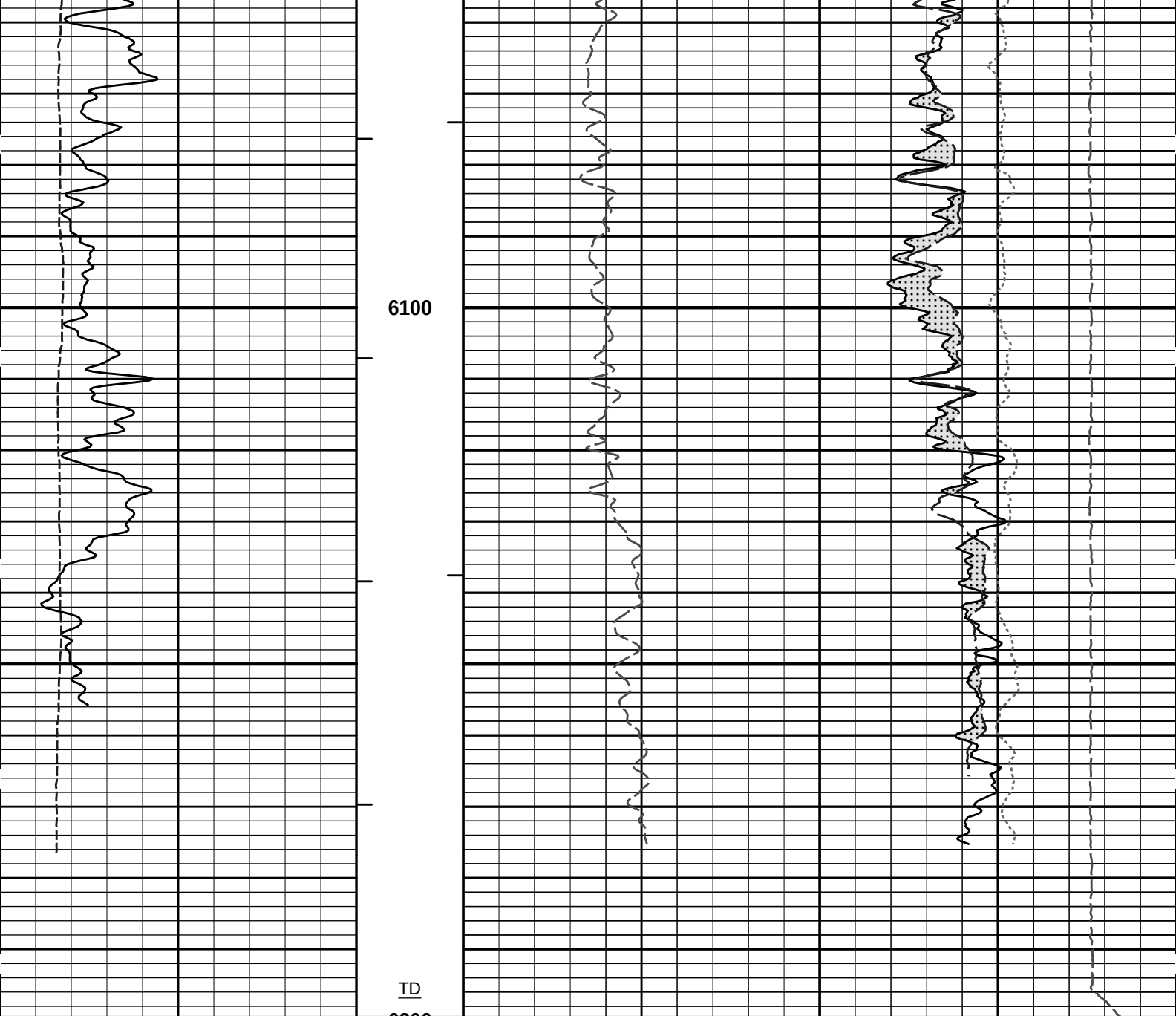
5800



Density Corr

Tension





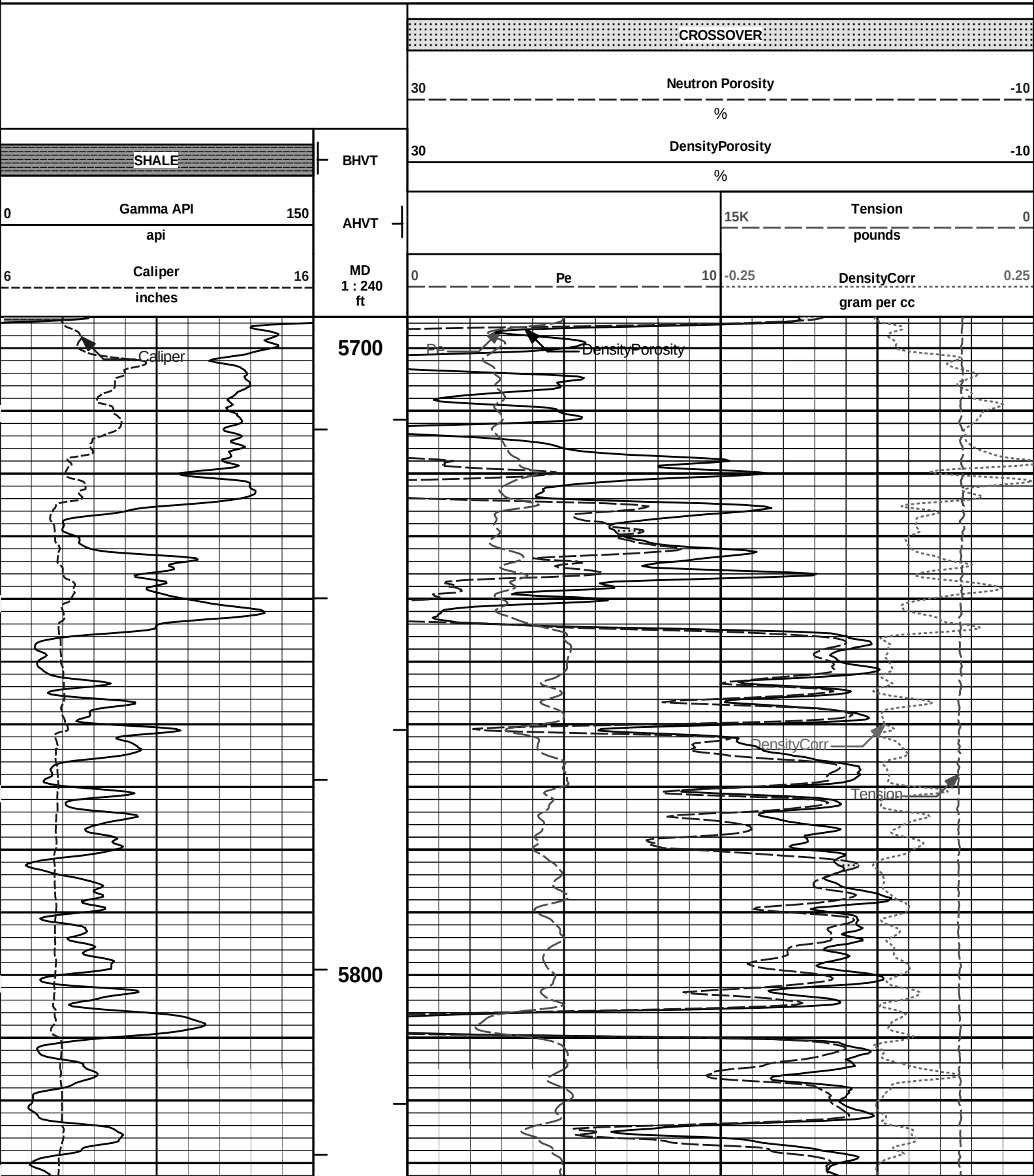
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		inches								gram per cc			
0		Gamma API	150		AHVT					15K	Tension	0	
		api							pounds				
		SHALE		BHVT	30		DensityPorosity					-10	
							%						
				Tension Pull	10	0	30	Neutron Porosity					-10
							%						
				Tension Pull	CROSSOVER								

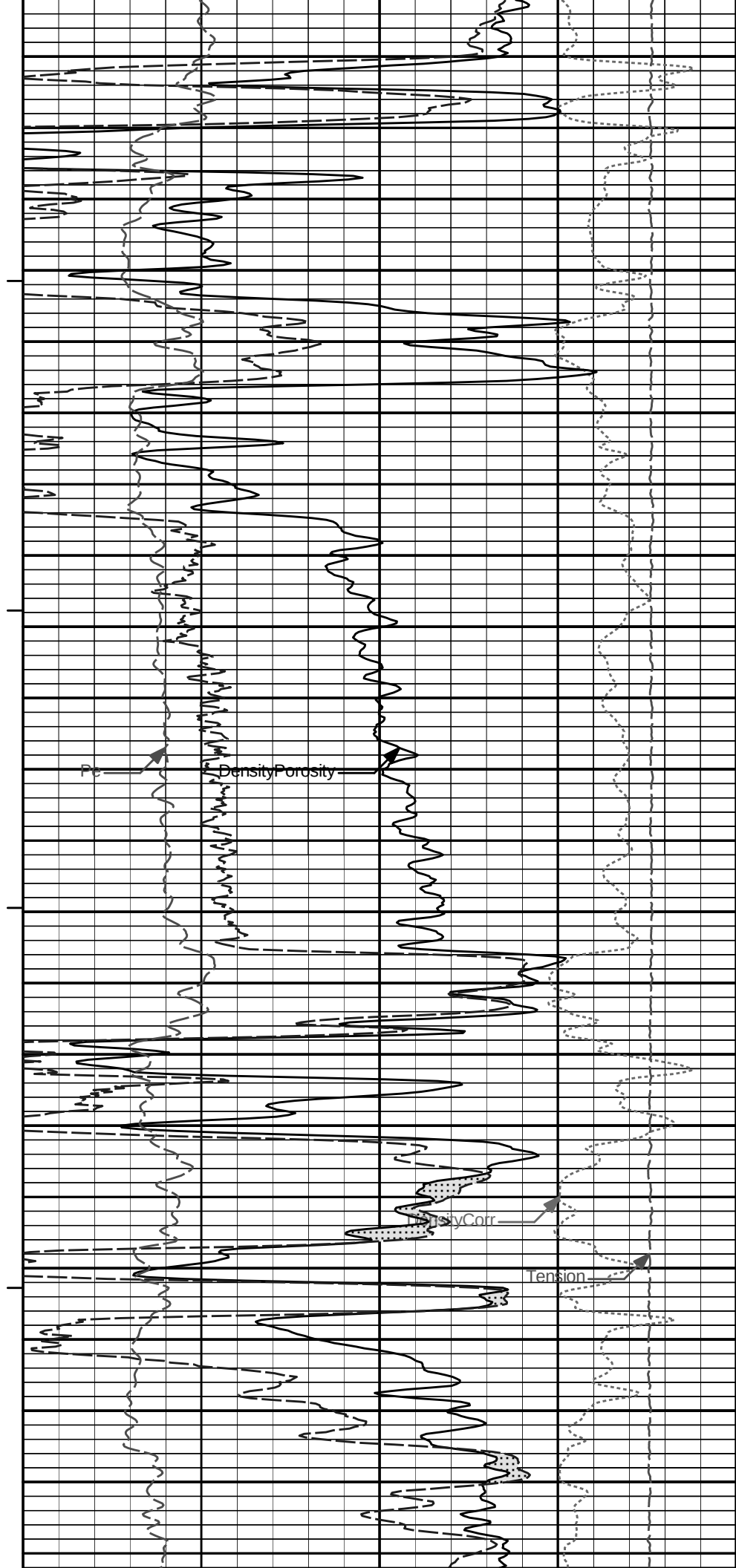
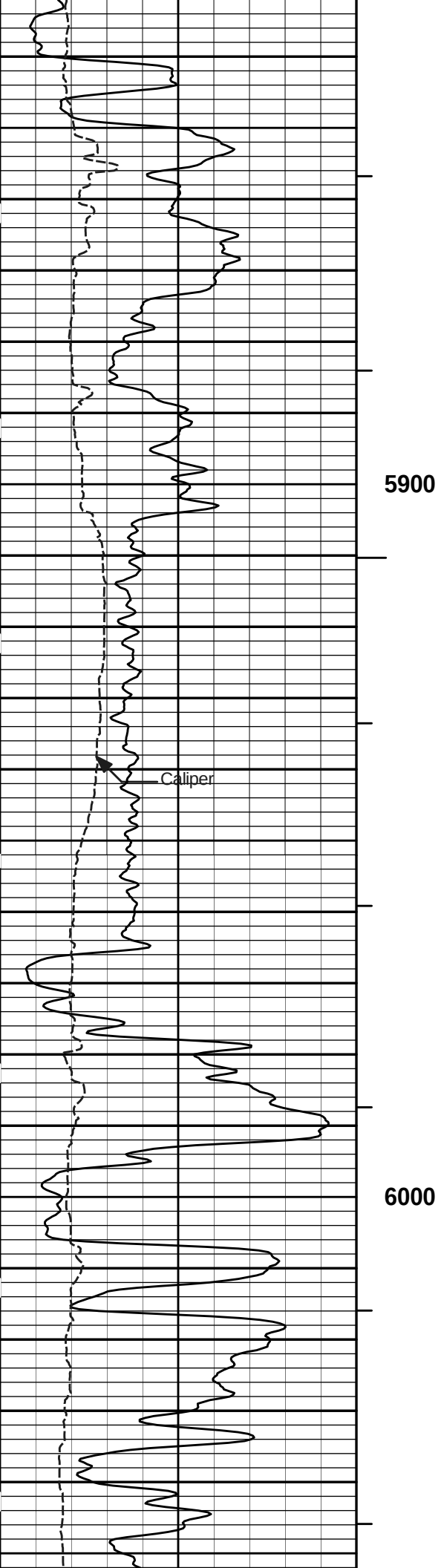
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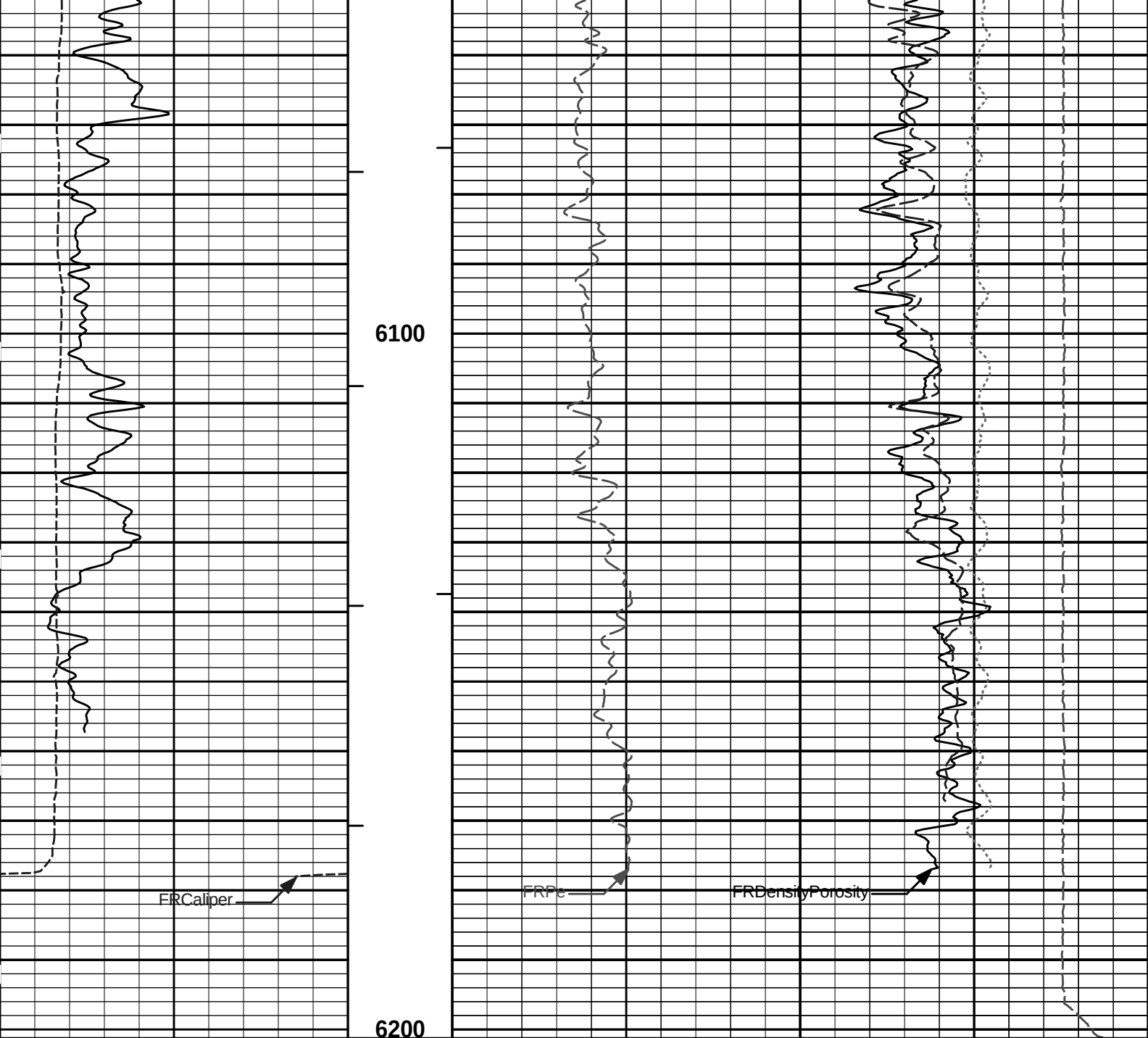
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Plot Range: 2495 ft to 6199.5 ft
Data: ANGELL #4-6Well Based\POROSITY\
Plot File: \\POROSITY\Porosity_Q_5_MAIN_LIB

5 INCH MAIN LOG

REPEAT SECTION







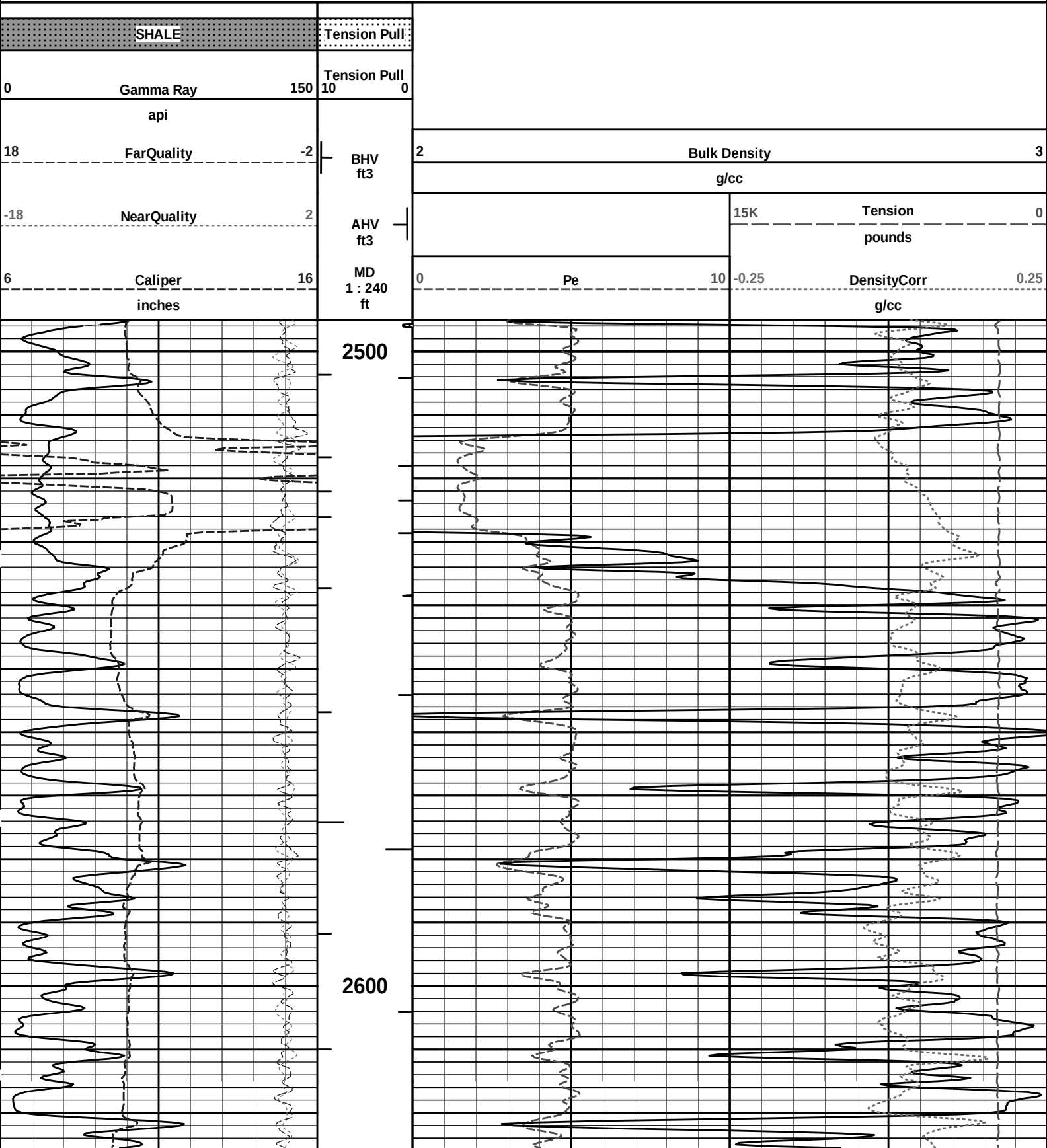
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	inches		1 : 240					gram per cc	
0	Gamma API	150	AHVT				15K	Tension	0
	api							pounds	
	SHALE		BHVT	30	DensityPorosity				-10
					%				
				30	Neutron Porosity				-10
					%				
					CROSSOVER				

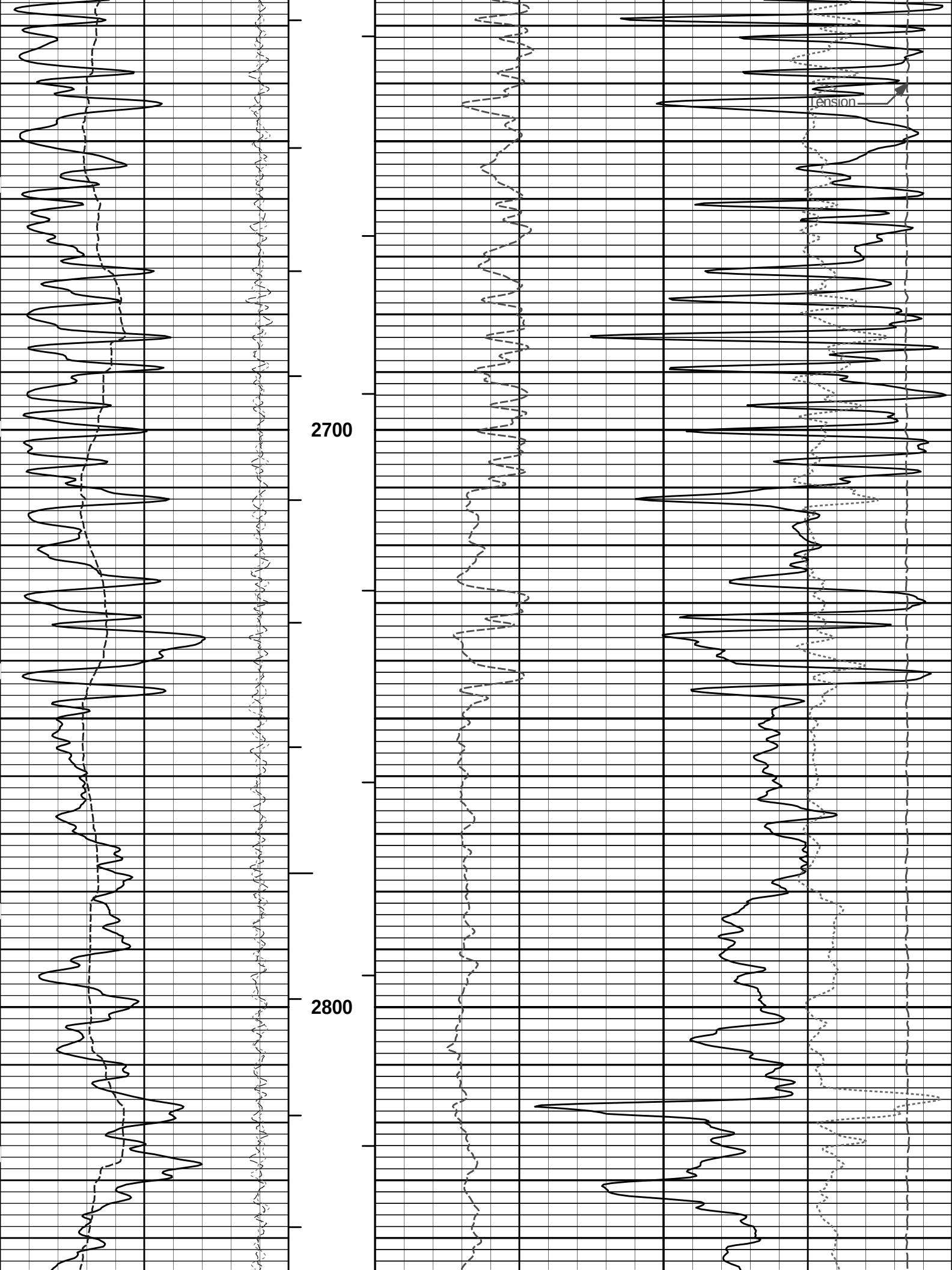
REPEAT SECTION

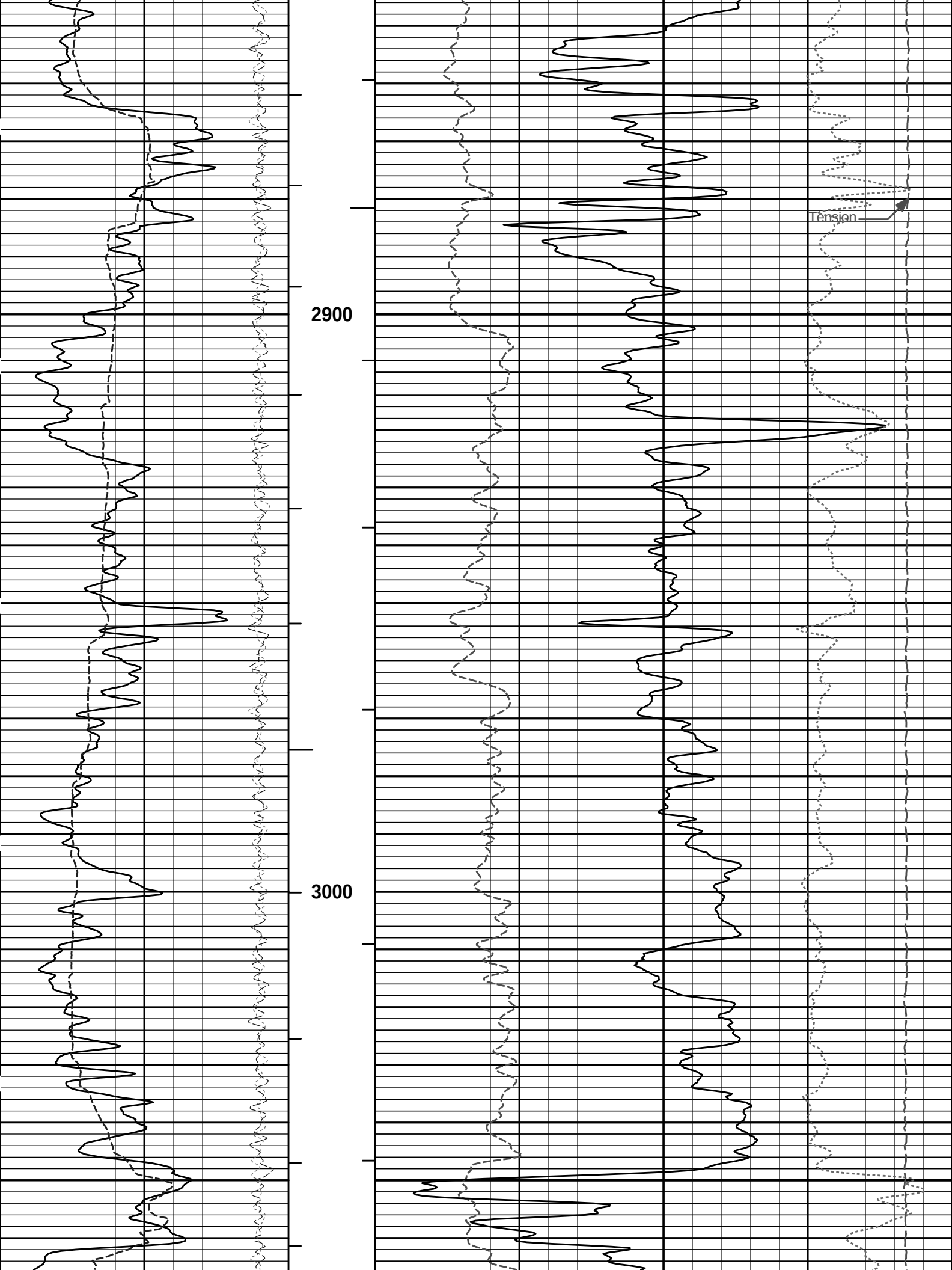
HALLIBURTON

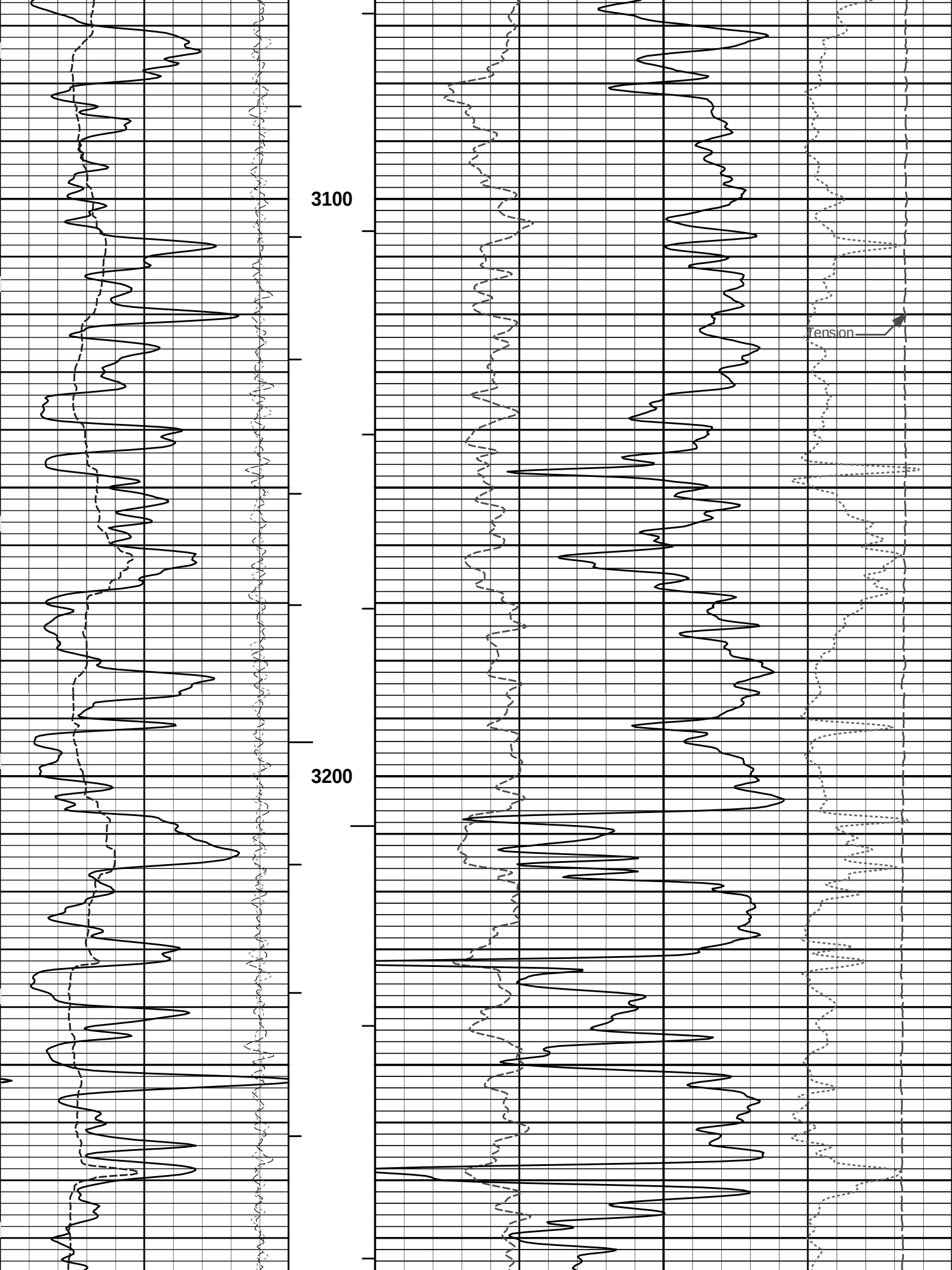
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Plot Range: 2495 ft to 6199.5 ft
Data: ANGELL #4-6\Well Based\POROSITY\
Plot File: \\-LOCAL-ANGELL #4-6\Well Based\POROSITY\BULKD_5_MAIN_LIB

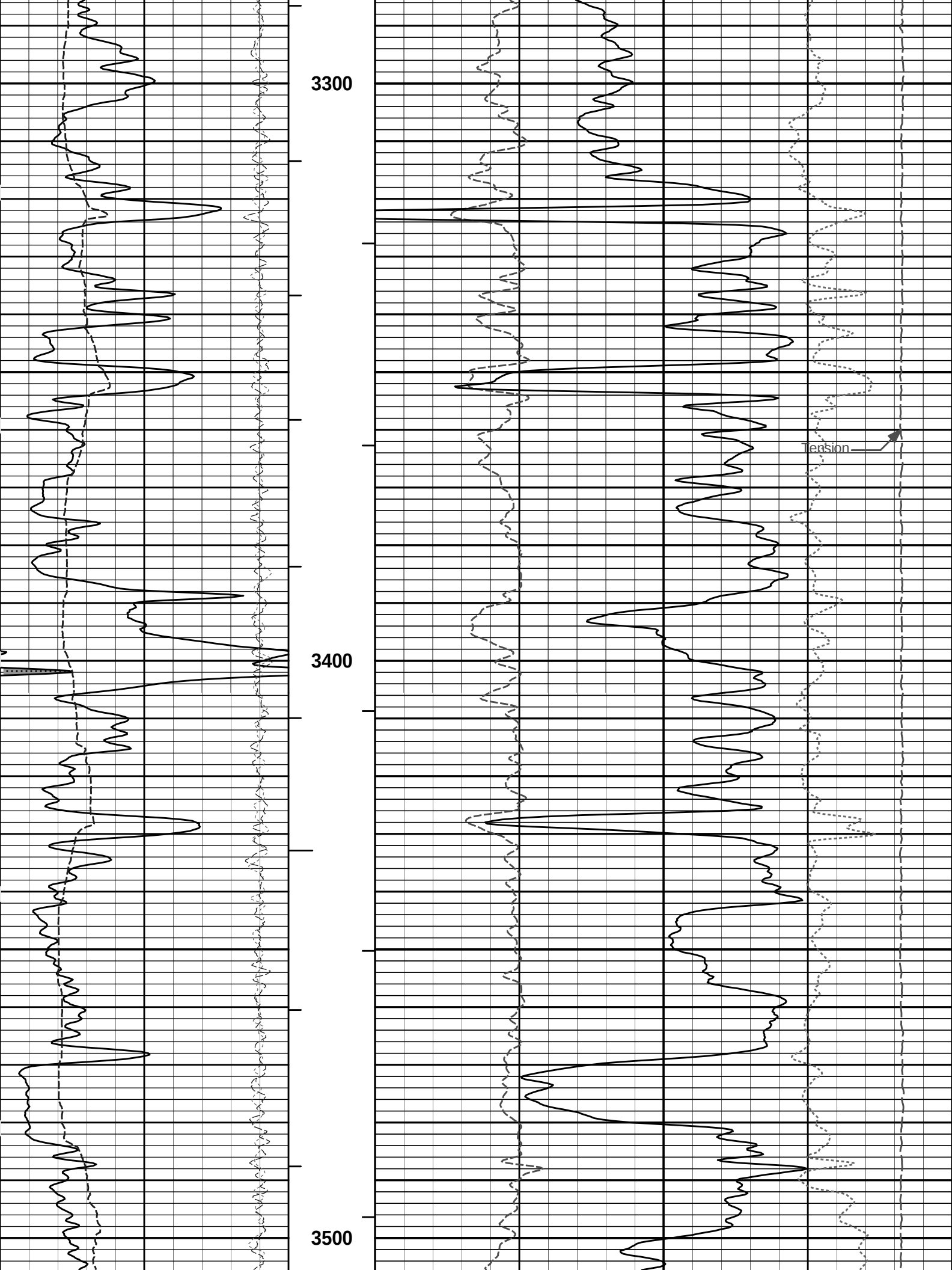
5 INCH MAIN LOG

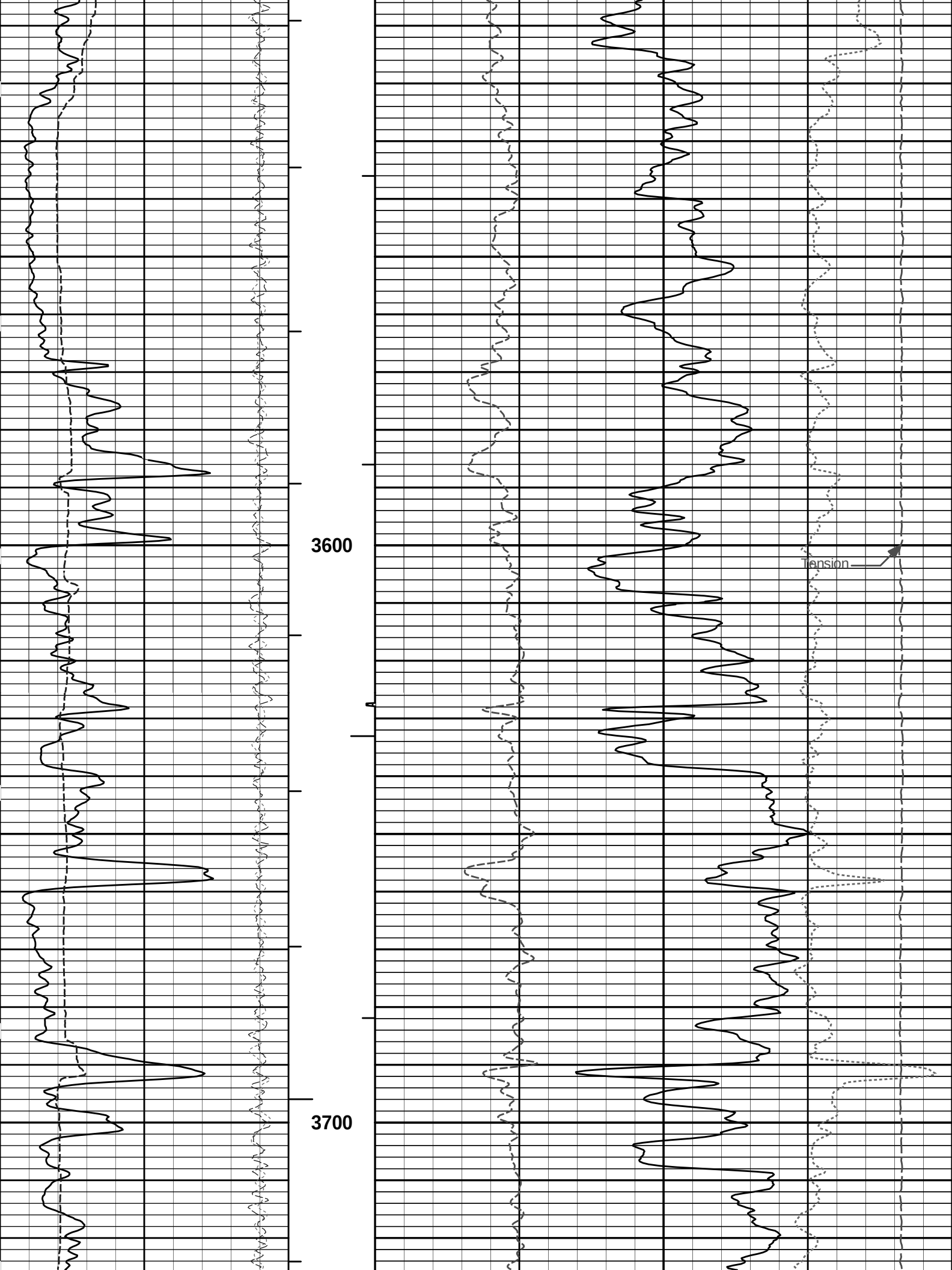


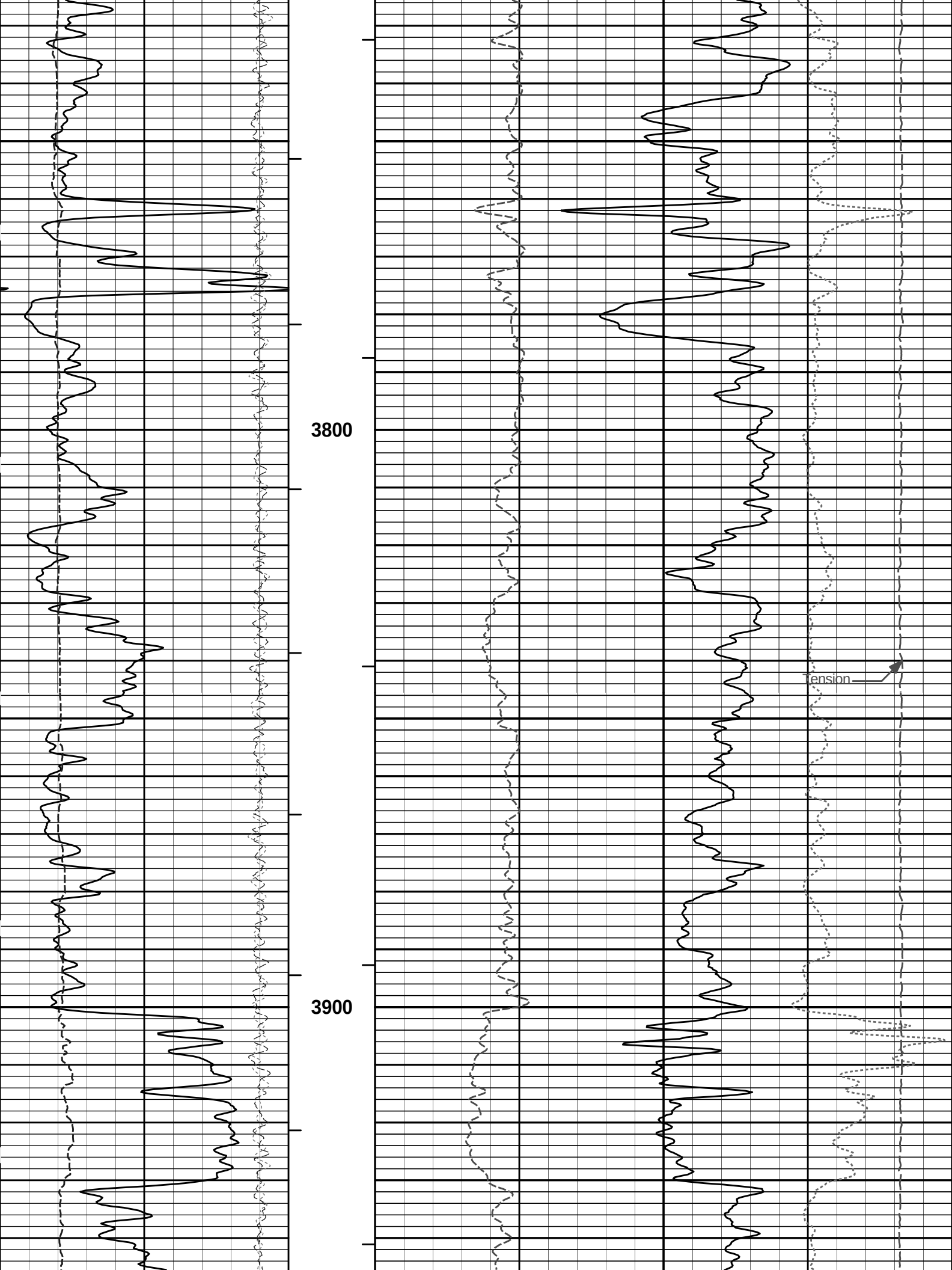


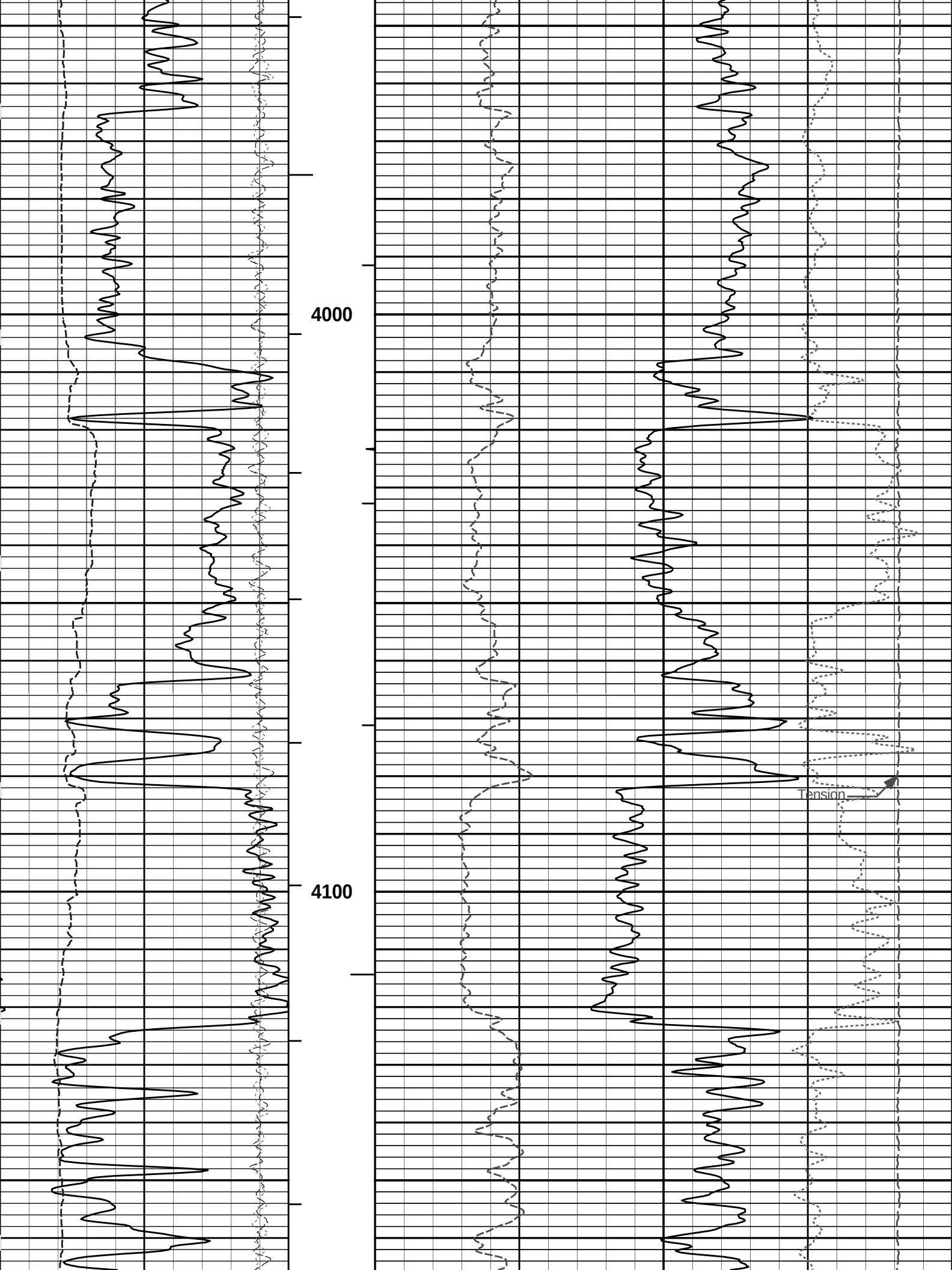


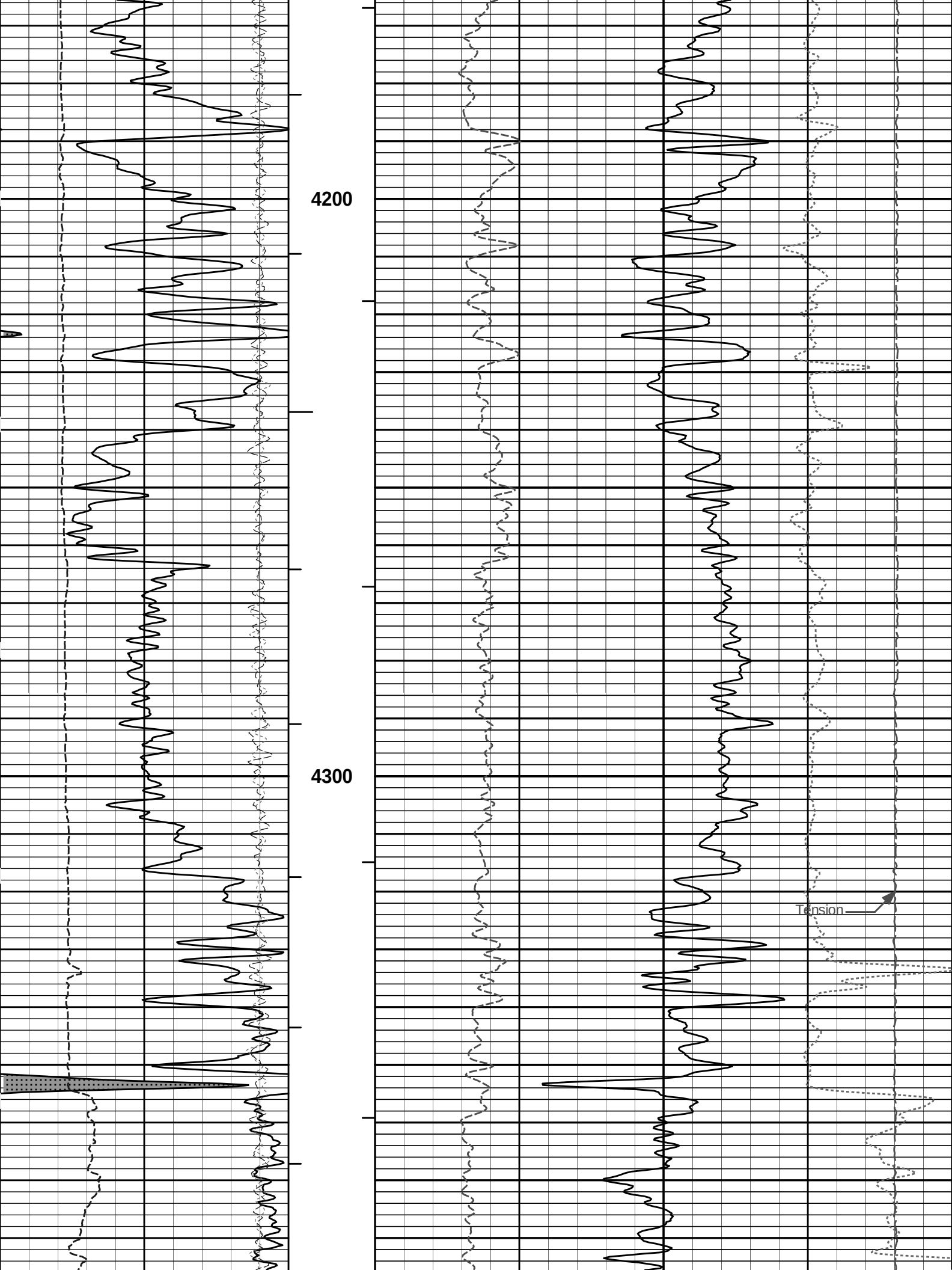


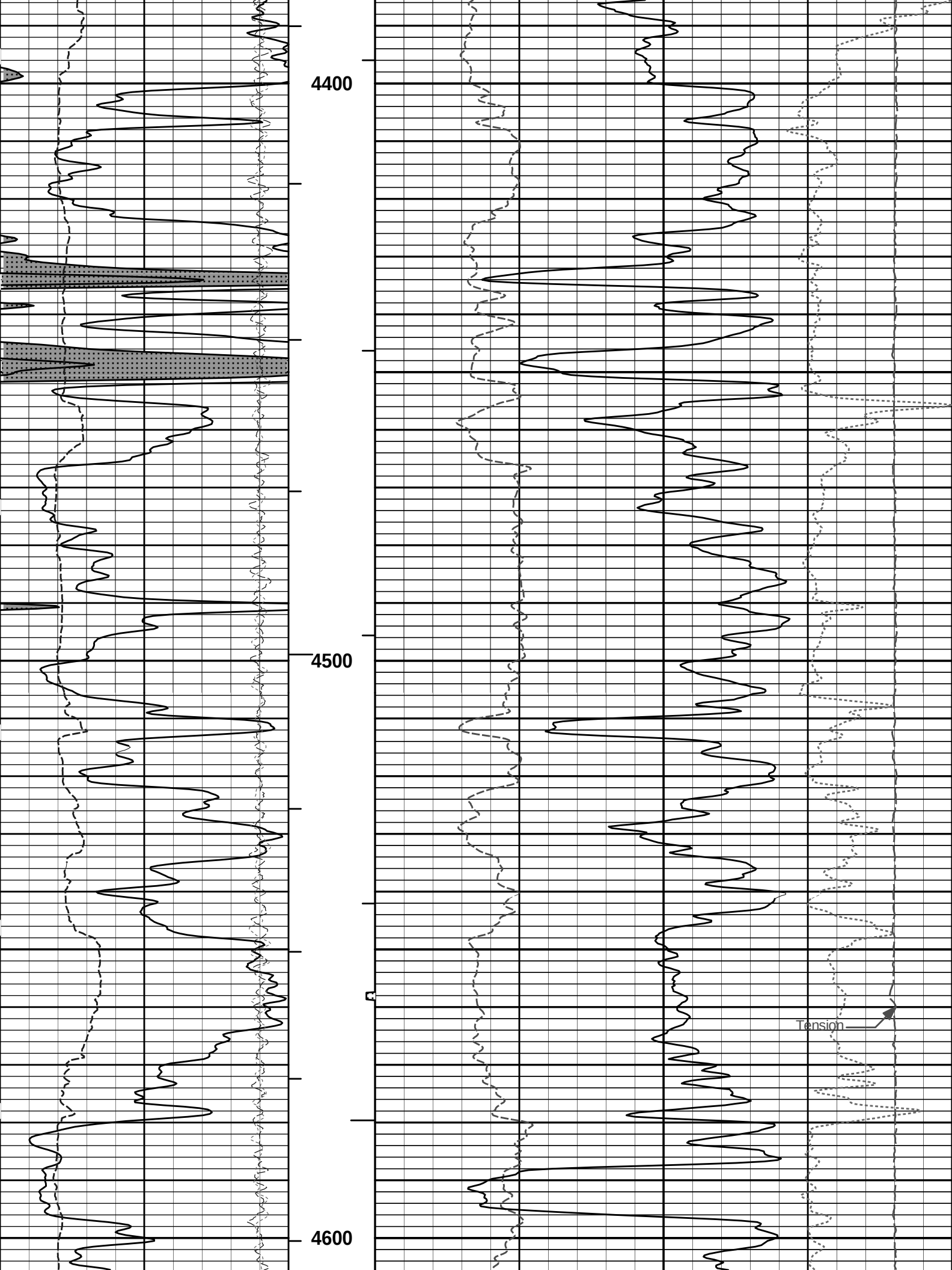


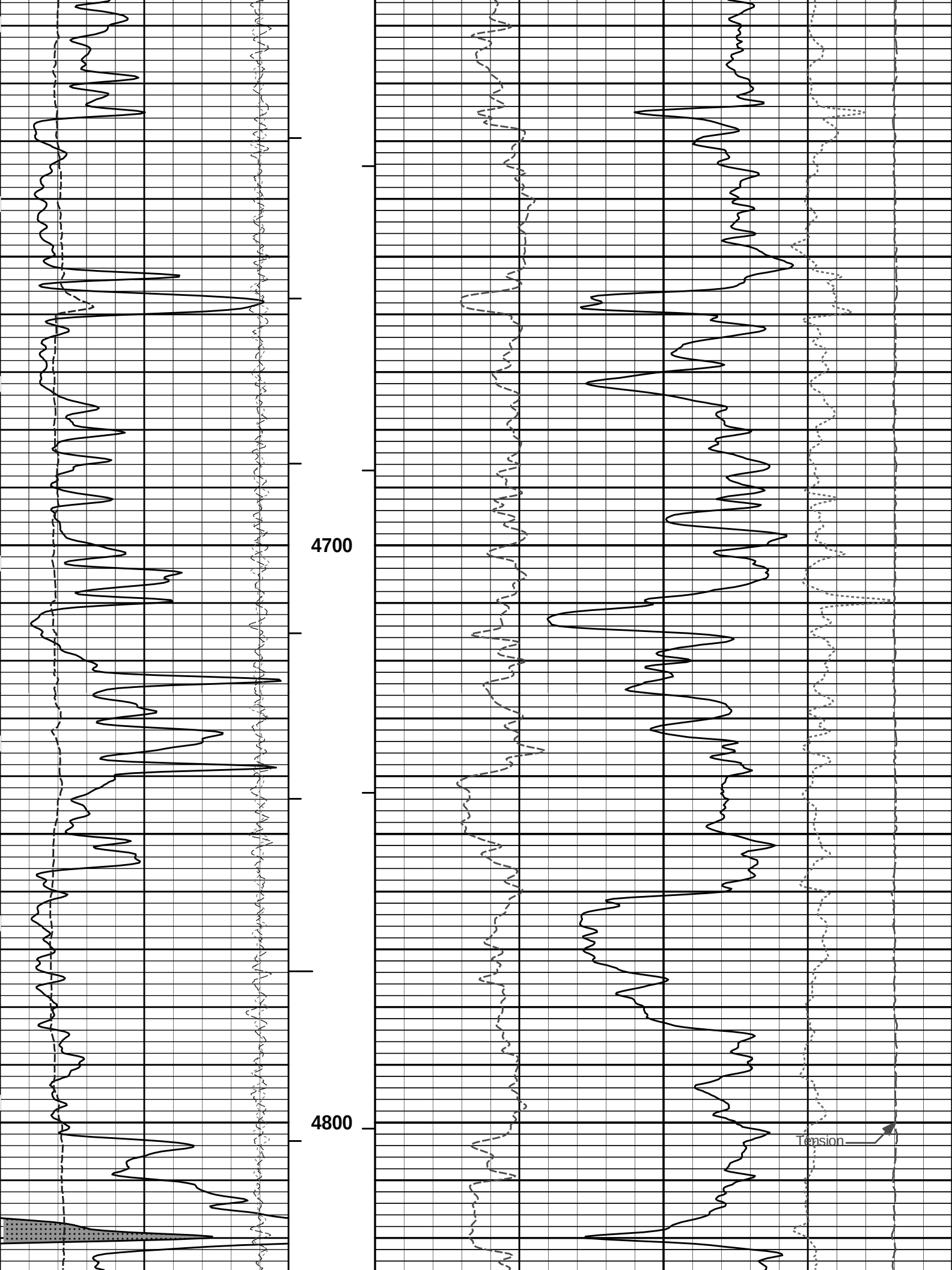


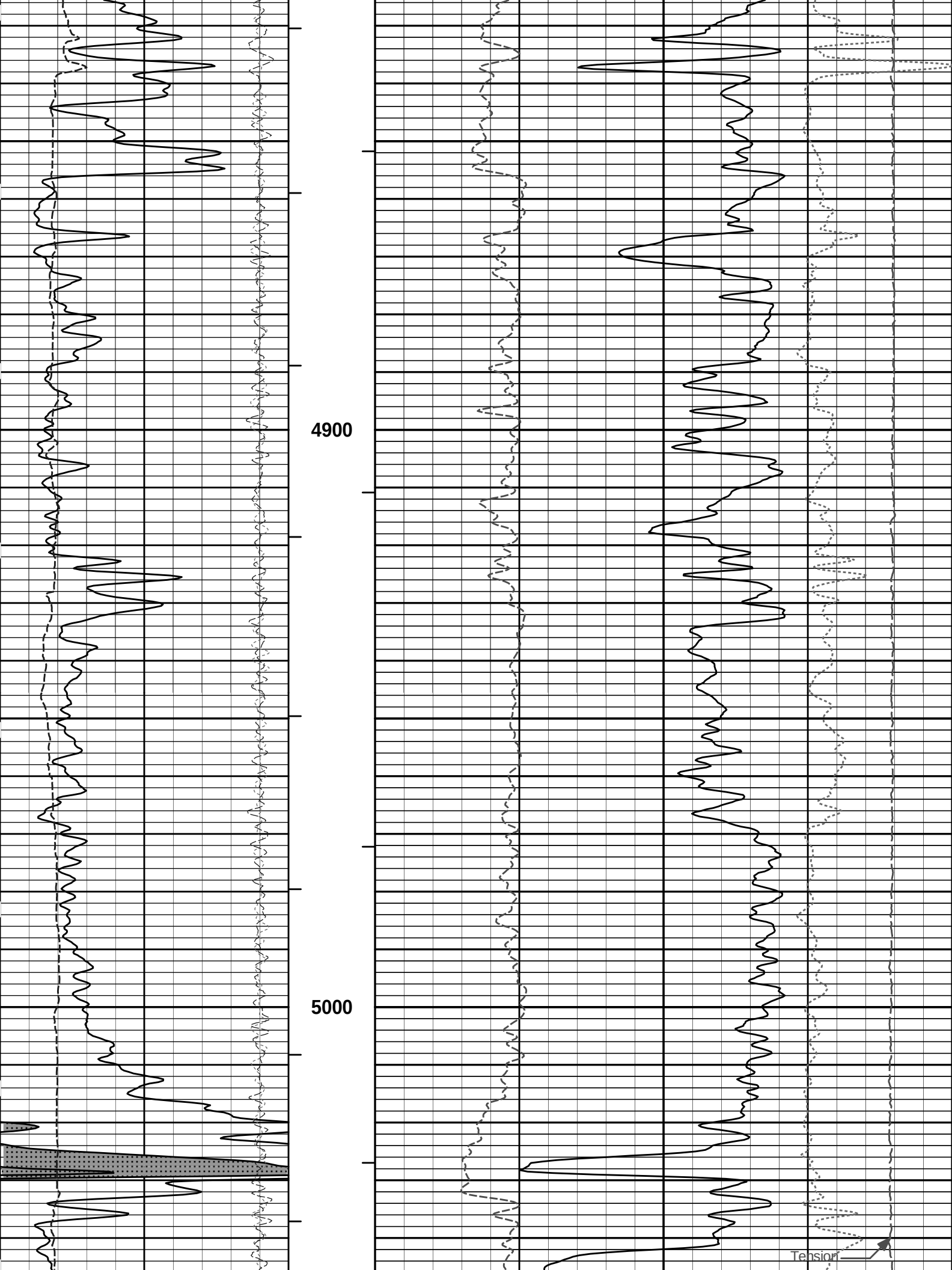


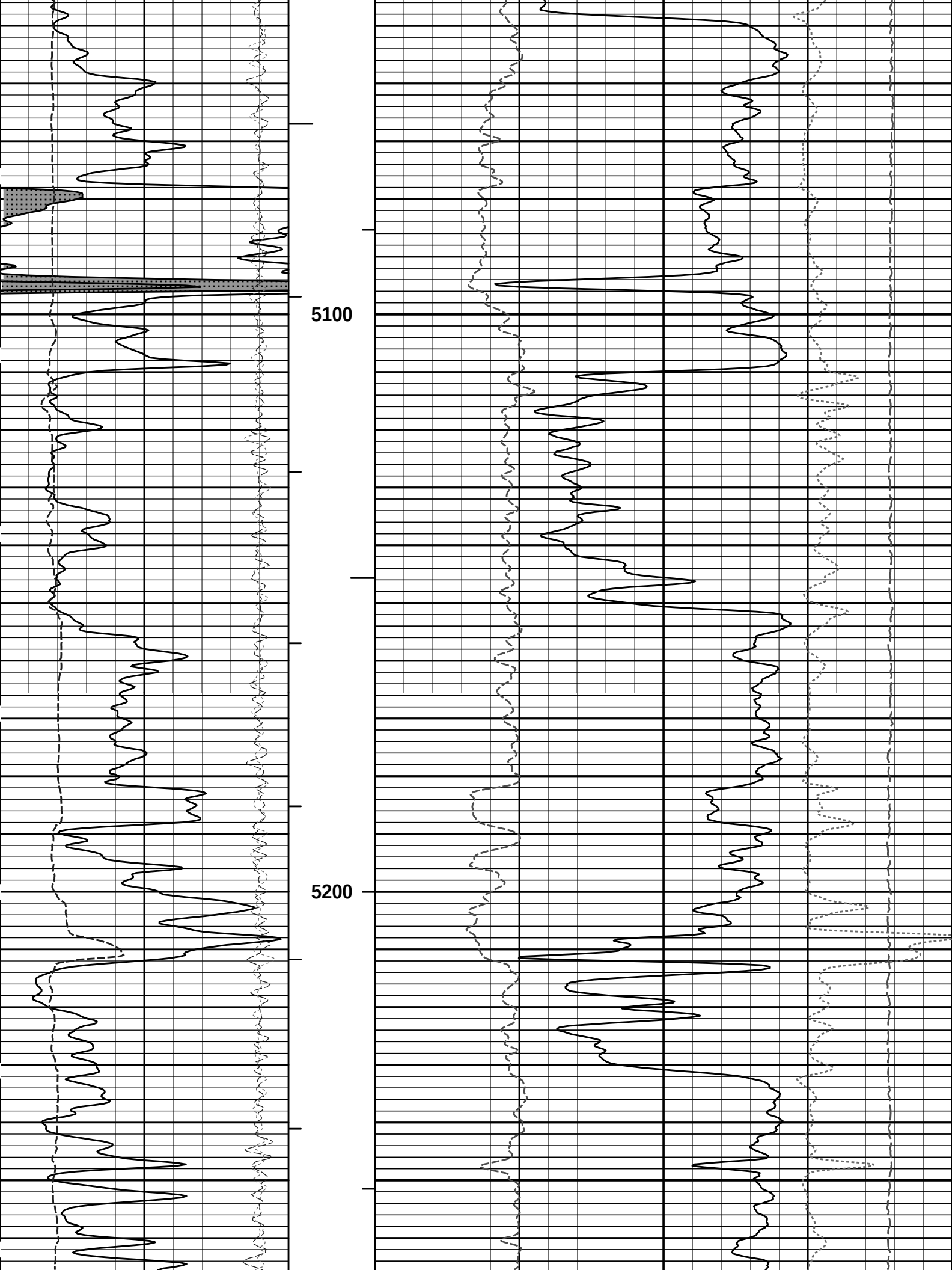


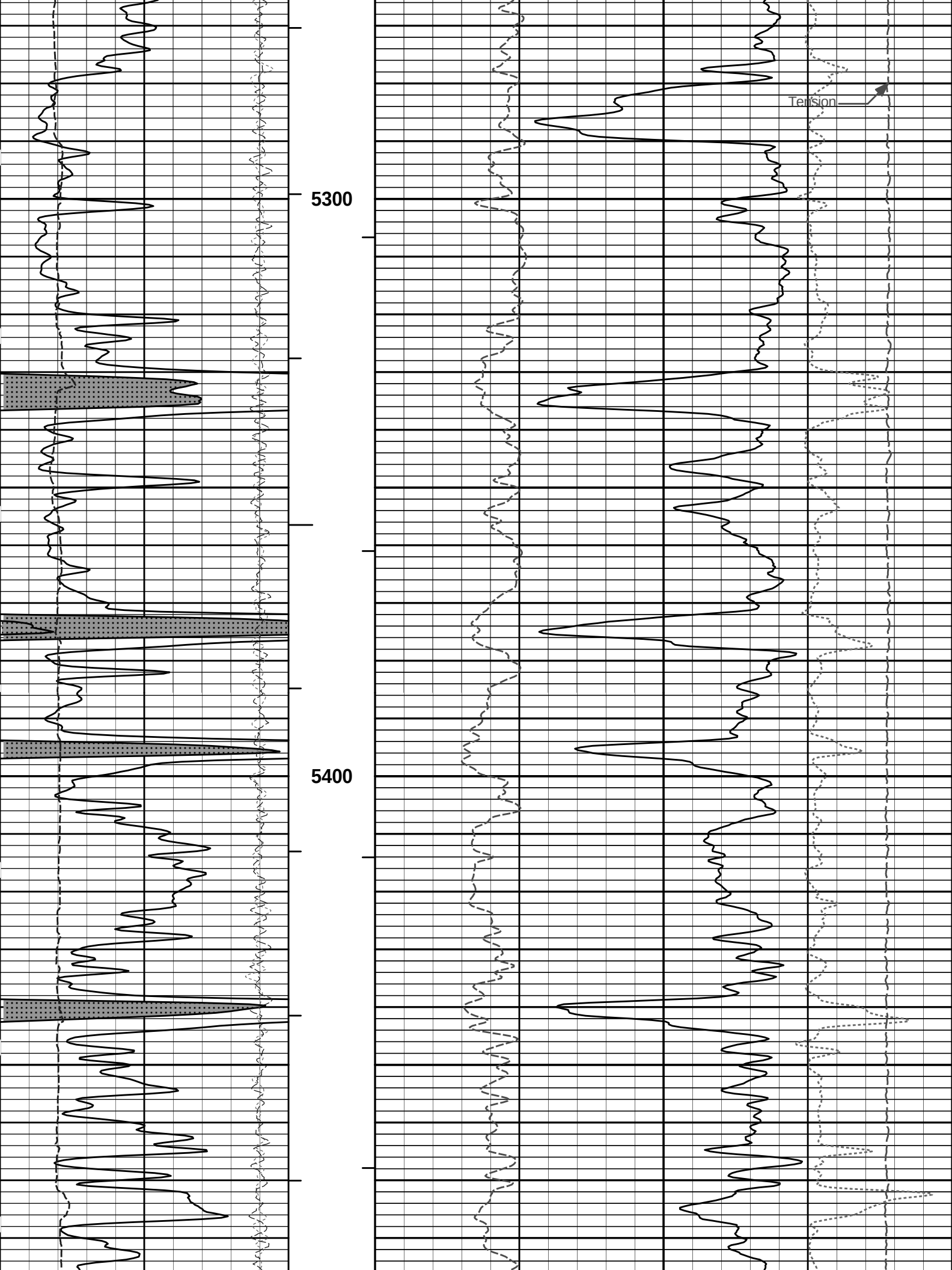


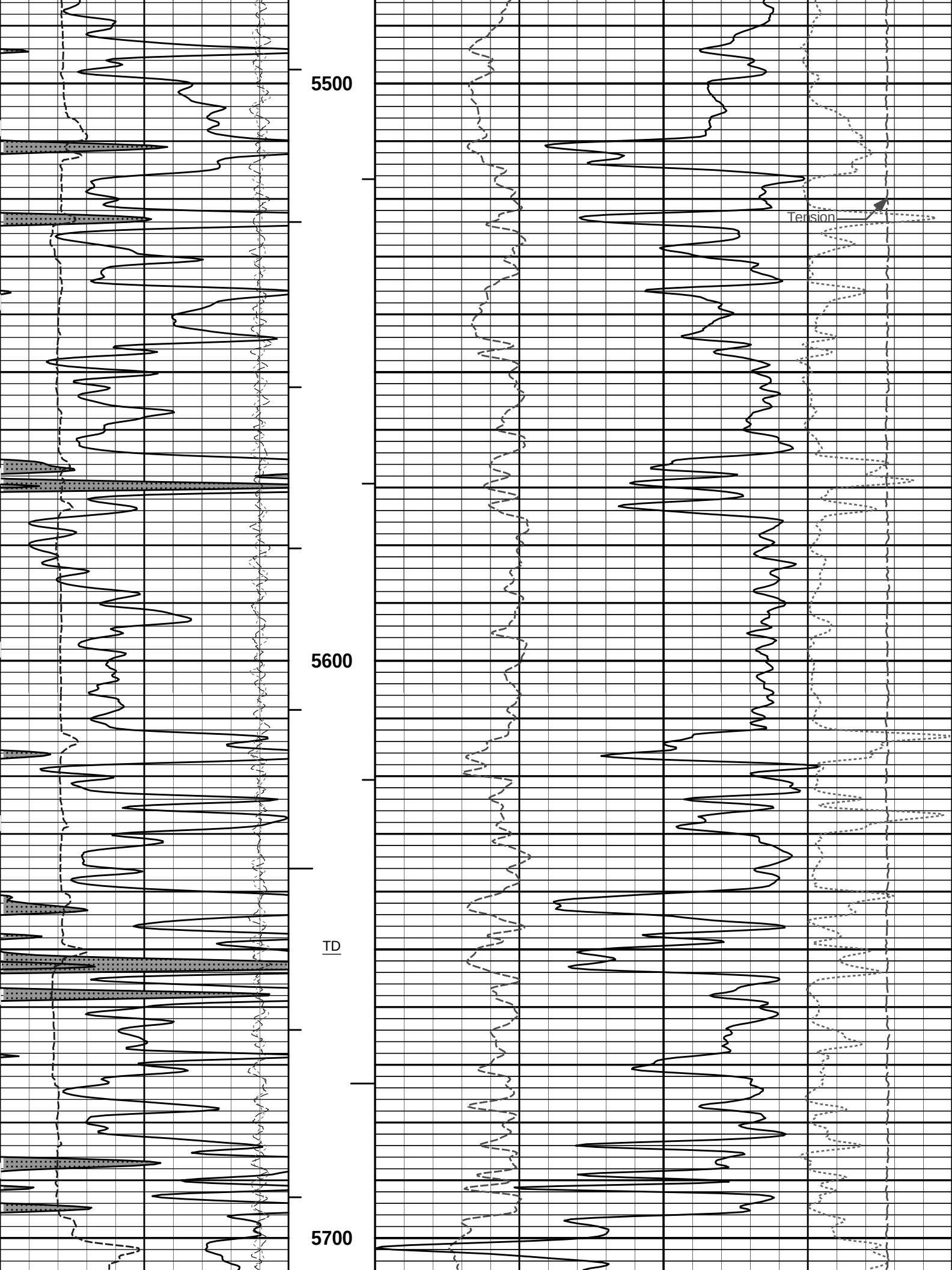


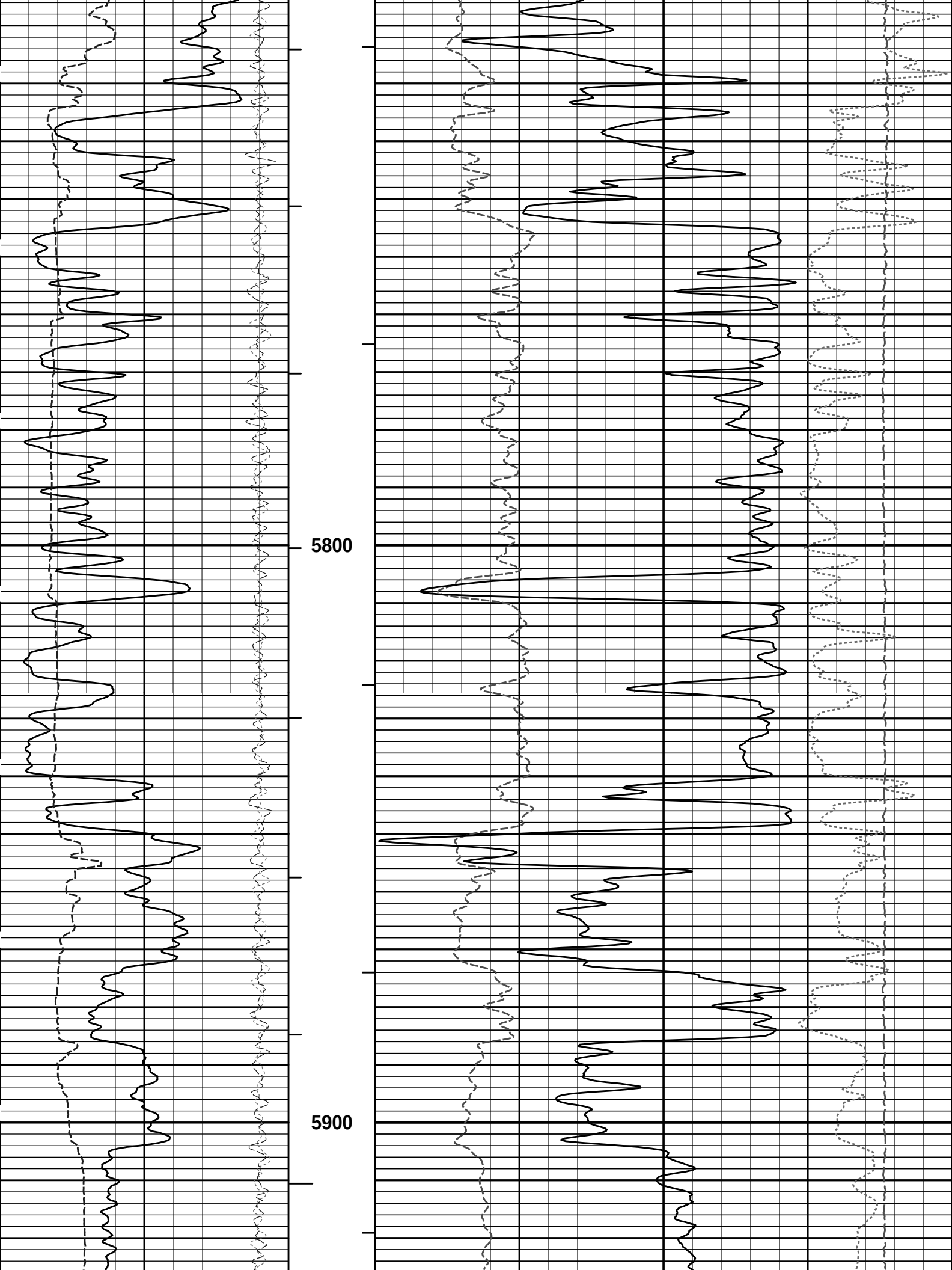


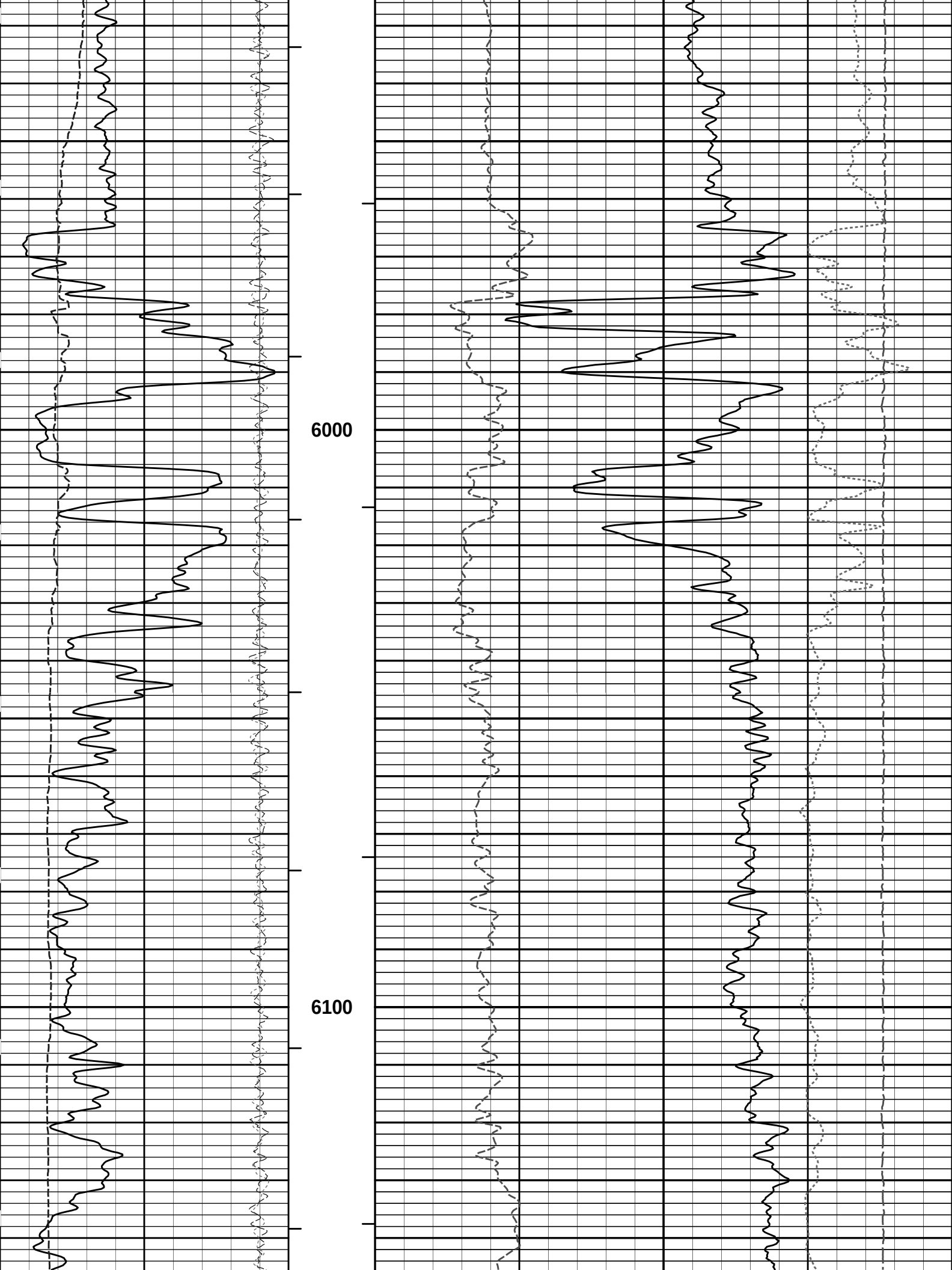


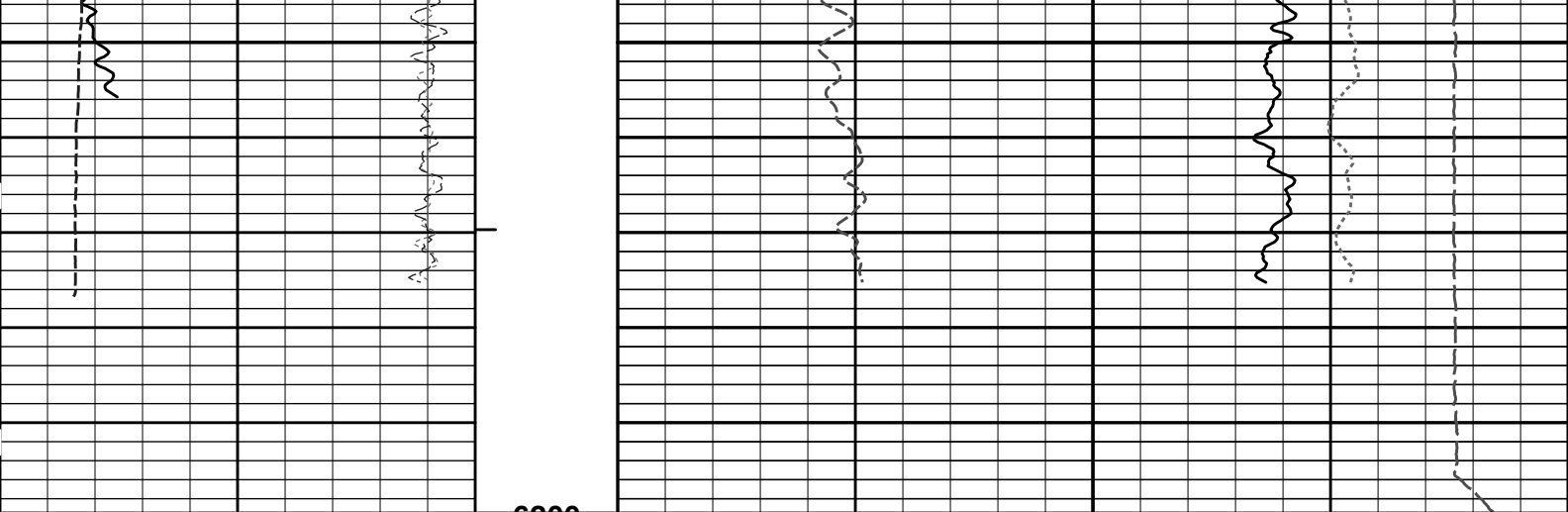












6	Caliper	16	MD 1 : 240 ft	0	Pe	10	-0.25	DensityCorr	0.25	
	inches							g/cc		
-18	NearQuality	2	AHV ft3				15K	Tension	0	
								pounds		
18	FarQuality	-2	BHV ft3	2	Bulk Density					3
					g/cc					
0	Gamma Ray	150	Tension Pull 10	0						
	api									
	SHALE		Tension Pull							

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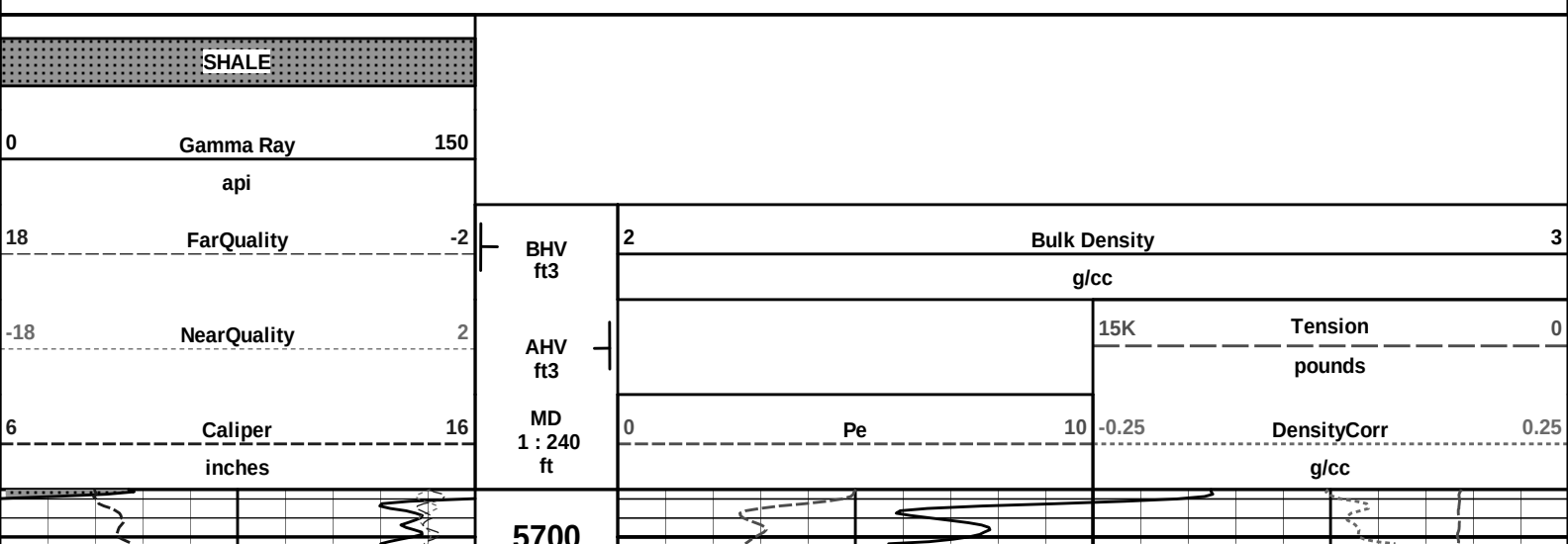
Plot Time: 18-Nov-12 15:48:49
Plot Range: 2495 ft to 6199.5 ft
Data: ANGELL #4-6\Well Based\POROSITY\
Plot File: \\-LOCAL-ANGELL #4-6\Well Based\POROSITY\BULKD_5_MAIN_LIB

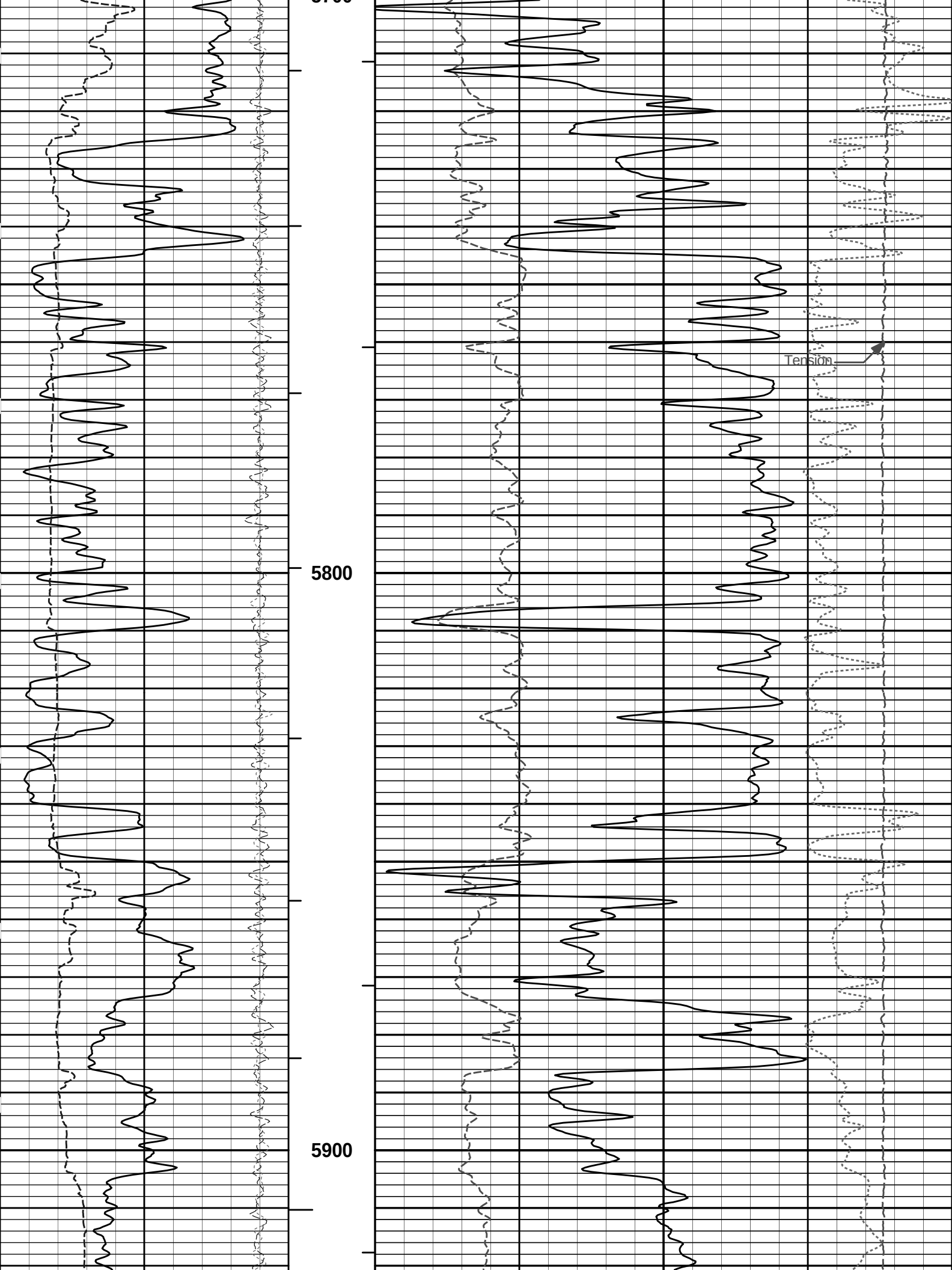
5 INCH MAIN LOG

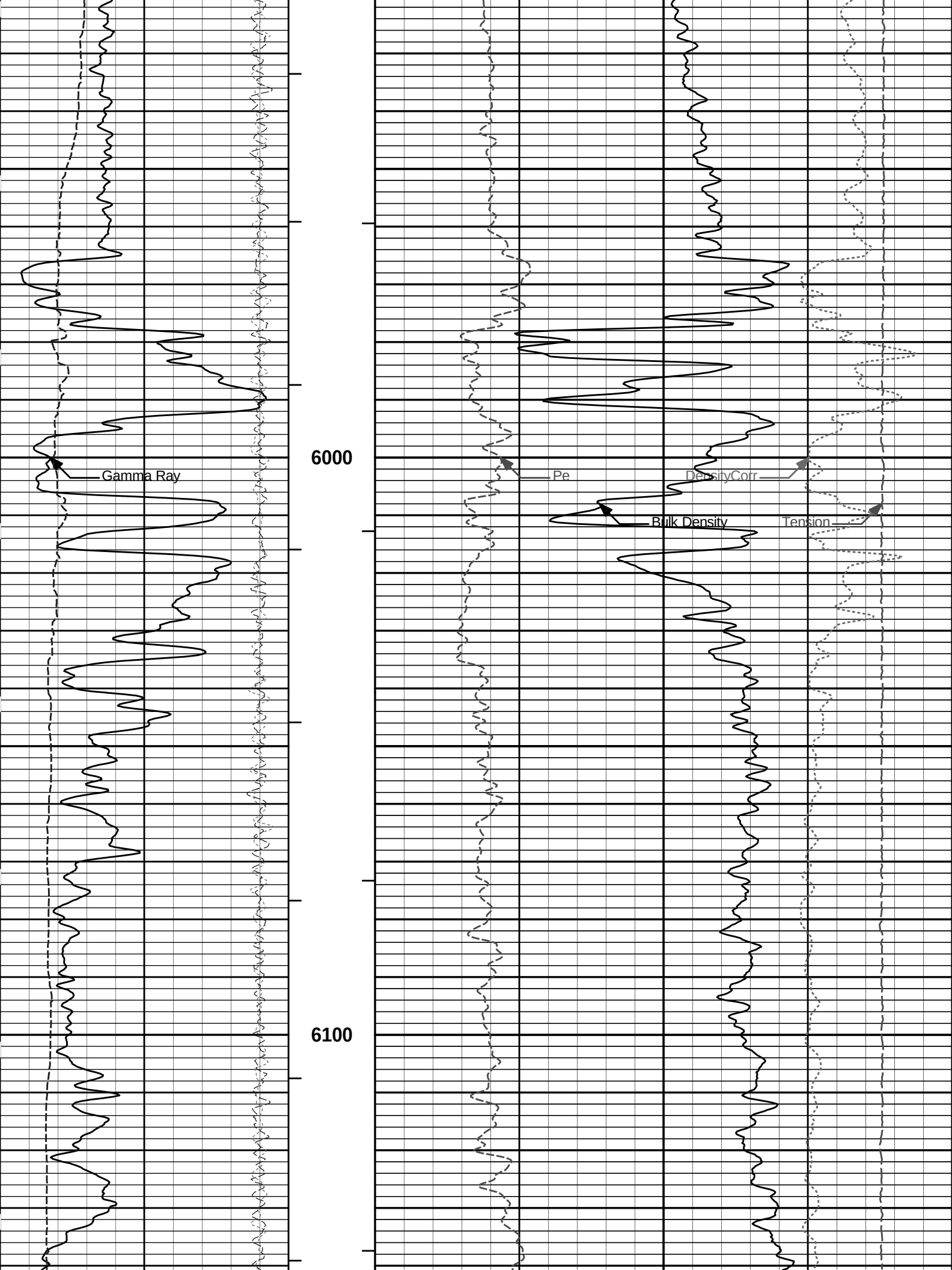
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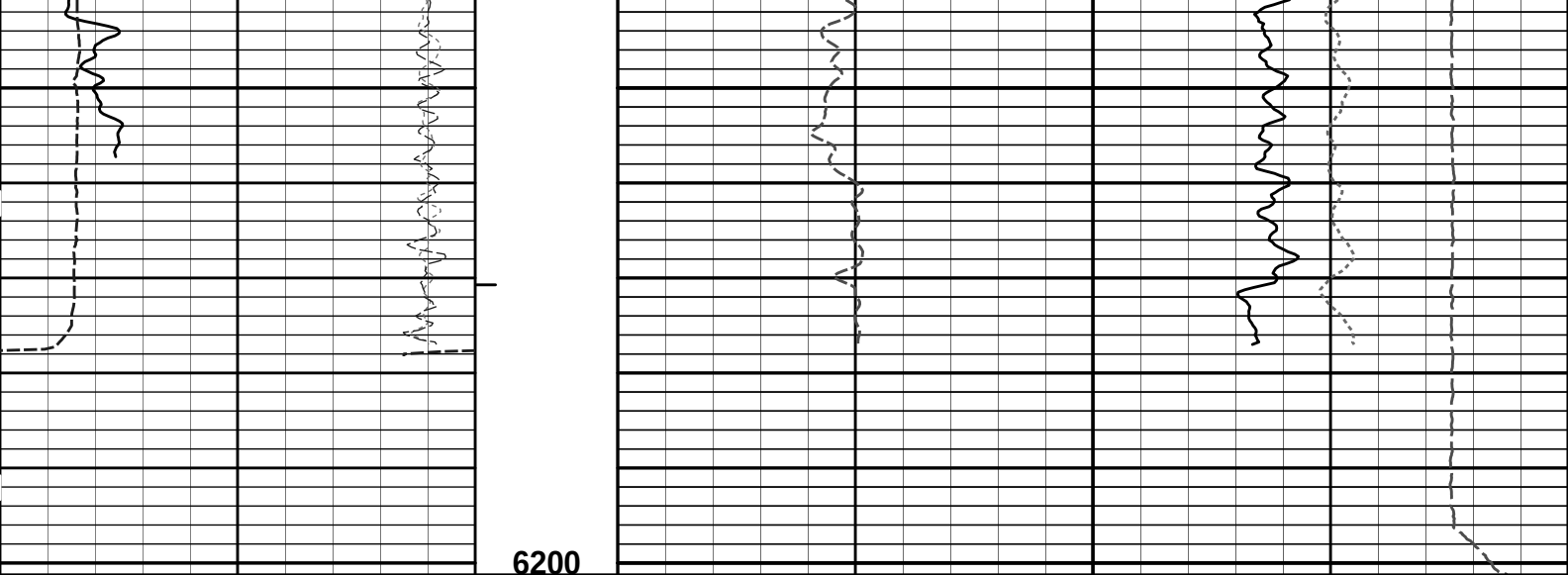
Plot Time: 18-Nov-12 15:48:49
Plot Range: 5695 ft to 6201.25 ft
Data: ANGELL #4-6\Well Based\REPEAT\
Plot File: \\-LOCAL-ANGELL #4-6\Well Based\POROSITY\BULKD_5_REP_LIB

REPEAT SECTION









6	Caliper	16	MD	0	Pe	10	-0.25	DensityCorr	0.25
	inches		1 : 240					g/cc	
-18	NearQuality	2	AHV				15K	Tension	0
			ft3					pounds	
18	FarQuality	-2	BHV	2	Bulk Density				3
			ft3		g/cc				
0	Gamma Ray	150							
	api								
	SHALE								

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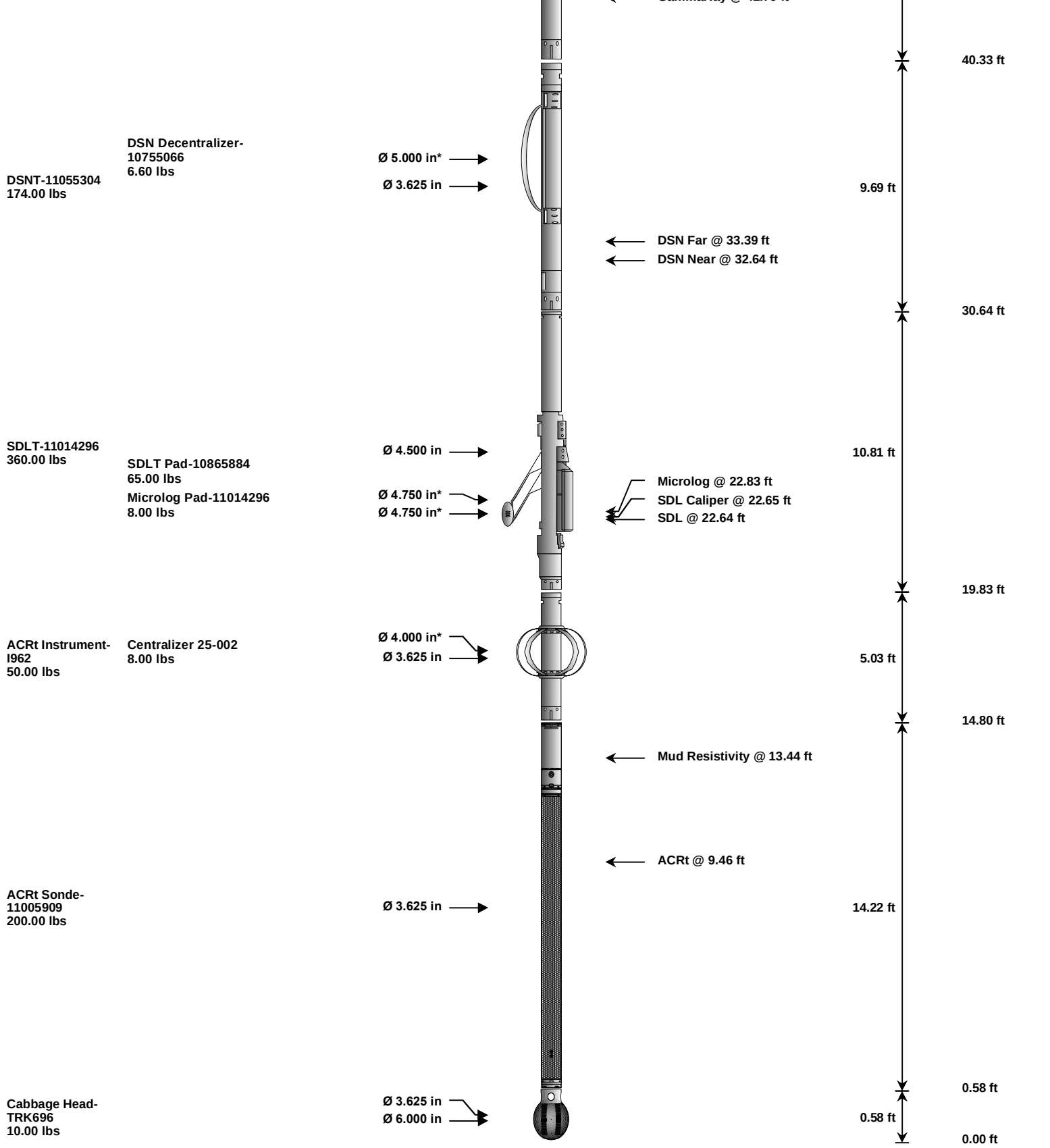
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Plot File: \\-LOCAL-ANGELL #4-6\Well Based\POROSITY\BULKD_5_REP_LIB

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-CH_696 37.50 lbs		Ø 2.750 in →		← Temperature @ 54.59 ft	3.03 ft	55.62 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	52.59 ft
						48.85 ft
GTET-11039640 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	



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	52.59	300.00
SP	SP Sub		11441455	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool		11039640	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron		11055304	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer		10755066	6.60	5.13	* 33.97	300.00
SDLT	Spectral Density Tool		11014296	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad		10865884	65.00	2.55	* 22.04	60.00
MICP	Microlog Pad		11014296	8.00	1.00	* 22.33	60.00
ACRT	Array Compensated True Resistivity Instrument Section		I962	50.00	5.03	14.80	300.00
OBCEN	Centralizer - 25 in. Overbody		002	8.00	2.08	* 16.44	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			1,144.10	55.62		
* Not included in Total Length and Length Accumulation.						
Data: ANGELL #4-6I0001 SP-GTET-DSN-SDL-ACRT-CHIDLE				Date: 18-Nov-12 10:58:28		

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	9.200	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	1.000	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	6200.00	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	
	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	
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: ANGELL #4-6\0001 SP-GTET-DSN-SDL-ACRT-CHI004 18-Nov-12 13:04 Up @6199.5f			Date: 18-Nov-12 14:32:42	

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION				
Tool Name:	GTET - 11039640	Reference Calibration Date:	25-Sep-12 15:48:12	
Engineer:	T. HYDE	Calibration Date:	02-Nov-12 10:48:45	
Software Version:	WL INSITE R3.6.0 (Build 3)	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	63.1	62.7	api
Background + Calibrator	334.4	332.3	api
Calibrator	271.3	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 11039640	Reference Calibration Date:	02-Nov-12 10:48:45	
Engineer:	S. INGERSOLL	Calibration Date:	18-Nov-12 07:44:32	
Software Version:	WL INSITE R3.6.0 (Build 3)	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	62.7	62.8	api
Background + Calibrator	332.3	328.1	api
Calibrator	269.6	265.2	api

Shop	Field	Difference	Tolerance
269.6	265.2	4.4	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 11055304	Reference Calibration Date:	03-Oct-12 09:49:05
Engineer:	T. HYDE	Calibration Date:	02-Nov-12 10:41:48
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: 696
Tank Serial Number: LIBERAL_NEUTRON
Reference value assigned to Tank: 51.680
Snow Block S/N: 696
Calibration Tank Water Temperature: 68 degF
Min. Tool Housing Outside Diameter: 3.620 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.992	0.989	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):	0.2116	0.2107	0.0009	+/- 0.0020
Calibrated Ratio:	9.75	9.72	0.032	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0701	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 - 11055304	Reference Calibration Date:	02-Nov-12 10:41:48
Engineer:	S. INGERSOLL	Calibration Date:	18-Nov-12 07:56:34
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: 696
Snow Block S/N: 696

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0701	0.0777	0.0076	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 11014296	Reference Calibration Date:	03-Oct-12 13:32:52
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Engineer:	T. HYDE	Calibration Date:	02-Nov-12 10:17:50
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Host Tool Name:	DSNT - 11055304		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-4436.57	-3840.06	-7000.00 - -1000.00
Pad Gain	0.0004115	0.0003836	0.000200 - 0.000600
Arm Offset	-2657.94	-2907.65	-5000.00 - 3000.00
Arm Gain	0.0005195	0.0004674	0.000300 - 0.000700
Arm Power	-0.000004820	-0.000000836	-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)	1.90	2.00	0.10	+/- 0.20
Medium Ring (in)	3.78	3.75	-0.03	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.56	6.50	-0.06	+/- 0.20
Medium Ring (in)	8.41	8.25	-0.16	+/- 0.20
Large Ring (in)	14.95	15.00	0.05	+/- 0.20

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed
PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 10865884	Reference Calibration Date:	03-Oct-12 11:22:25
Engineer:	T. HYDE	Calibration Date:	02-Nov-12 09:31:35
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: 5168GW

Aluminum Block S/N: LIBERAL

Density: 2.598g/cc

Pe: 3.170

Magnesium Block S/N: LIBERAL

Density: 1.684g/cc

Pe: 2.598

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0410	1.0382	0.90 - 1.10
Near Dens Gain	1.0113	1.0184	0.90 - 1.10
Near Peak Gain	1.0095	1.0140	0.90 - 1.10
Near Lith Gain	0.9932	0.9939	0.90 - 1.10
Far Bar Gain	1.0156	1.0143	0.90 - 1.10
Far Dens Gain	1.0021	1.0013	0.90 - 1.10
Far Peak Gain	0.9957	0.9932	0.90 - 1.10
Far Lith Gain	0.9726	0.9741	0.90 - 1.10
Near Bar Offset	-0.1824	-0.1554	NONE
Near Dens Offset	0.0560	-0.0056	NONE
Near Peak Offset	0.0479	0.0100	NONE
Near Lith Offset	0.1420	0.1364	NONE

Near Lith Offset	0.1420	0.1304	NONE
Far Bar Offset	-0.0028	0.0088	NONE
Far Dens Offset	0.0935	0.0972	NONE
Far Peak Offset	0.1237	0.1436	NONE
Far Lith Offset	0.2707	0.2546	NONE
Near Bar Background	839.77	840.78	700 - 1450
Near Dens Background	277.12	276.69	230 - 480
Near Peak Background	121.11	121.05	100 - 210
Near Lith Background	148.58	148.21	125 - 260
Far Bar Background	519.76	518.34	450 - 900
Far Dens Background	203.54	202.25	175 - 345
Far Peak Background	79.88	79.38	70 - 140
Far Lith Background	82.71	83.90	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.682	1.684	0.002	+/- 0.015
Pe	2.555	2.555	0.000	+/- 0.150
ALUMINUM				
Density (g/cc)	2.598	2.598	-0.000	+/- 0.01500
Pe	3.113	3.124	0.011	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0004	+/- 0.0110	0.0007	+/- 0.0140
Magnesium Block	0.0009	+/- 0.0110	0.0007	+/- 0.0140
Aluminum Block	-0.0003	+/- 0.0110	-0.0009	+/- 0.0140
Resolution	9.17	6.00 - 11.50	8.94	6.00 - 11.50
Internal Verifier(B+D+P+L)	1387	1200 - 2700	884	800 - 1700

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

SPECTRAL DENSITY FIELD CHECK

Tool Name:	SDLT Pad - 10865884	Reference Calibration Date:	02-Nov-12 09:31:35
Engineer:	S. INGERSOLL	Calibration Date:	18-Nov-12 08:03:31
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Pad Temperature: 64.7 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-

Near (B+D+P+L) cps	1386.731	1380.834	-5.897	15.044
Far (B+D+P+L) cps	883.870	883.906	0.036	16.212
Near Resolution	9.17	9.21	0.040	0.50
Far Resolution	8.94	9.12	0.180	1.00

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

SDLT CALIPER FIELD CALIBRATION

Tool Name:	SDLT - 11014296	Reference Calibration Date:	02-Nov-12 10:17:50
Engineer:	S. INGERSOLL	Calibration Date:	18-Nov-12 08:06:09
Software Version:	WL INSITE R3.6.0 (Build 3)	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	8.30	0.05	+/- 0.15

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

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11039640						
Gamma Ray Calibrator	269.6	265.2	-----	4.4	+/- 9.00	api
DSNT-11055304						
Snow-Block Porosity	0.0701	0.0777	-----	-0.0076	+/- 0.0150	decp
SDLT-11014296						
Pad Extension	3.75	3.70	-----	0.05	+/-0.10	in
Ring Diameter	8.25	8.30	-----	-0.05	+/-0.15	in
SDLT Pad-10865884						
Near(B+D+P+L)	1386.731	1380.834	-----	5.897	+/-15.044	cps
Far(B+D+P+L)	883.870	883.906	-----	-0.036	+/-16.212	cps

Data: ANGELL #4-6\0001 SP-GTET-DSN-SDL-ACRT-CH\004 18-Nov-12 13:04 Up @6199.5f	Date: 18-Nov-12 14:36:00
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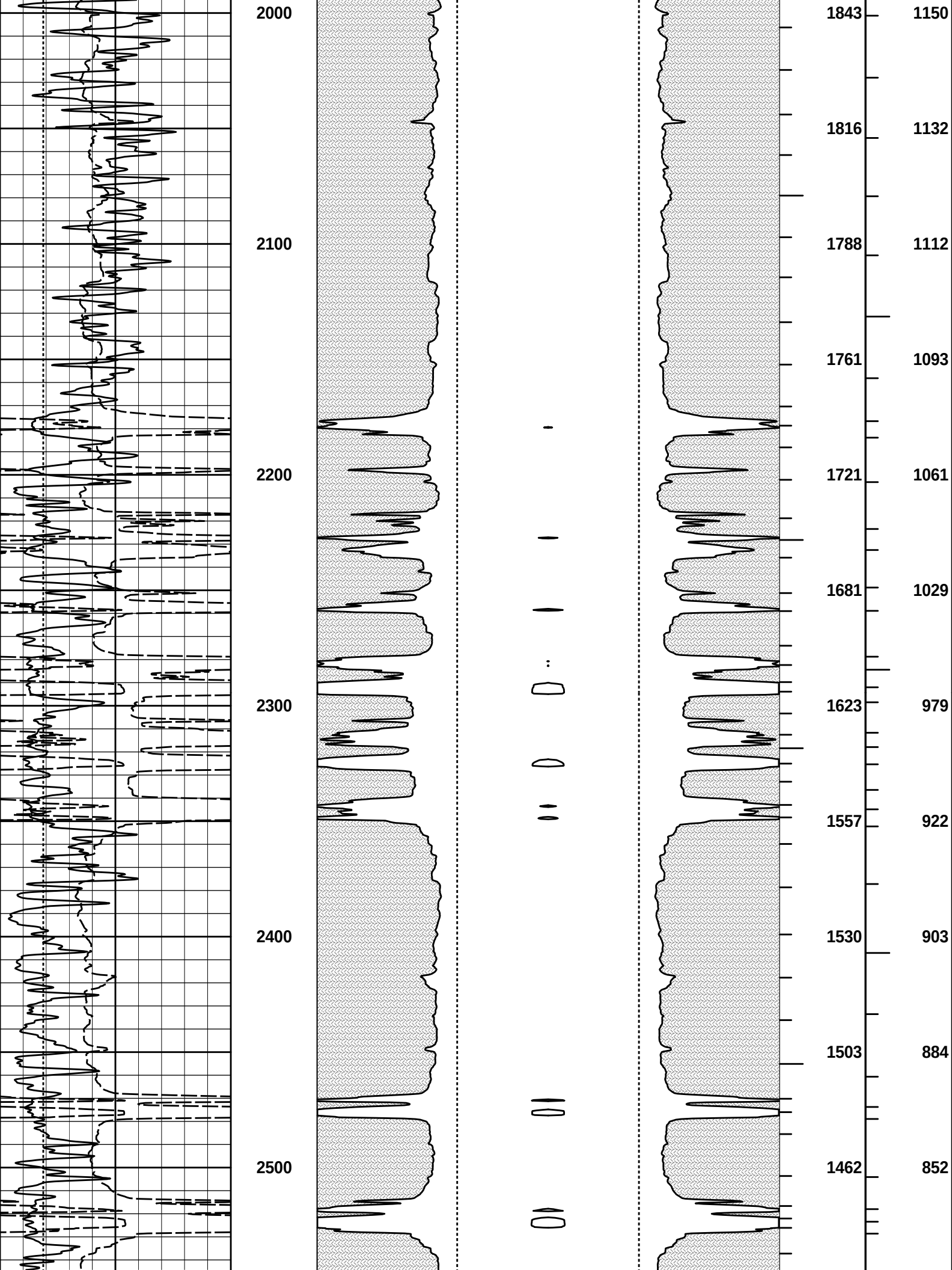
INPUTS, DELAYS AND FILTERS TABLE

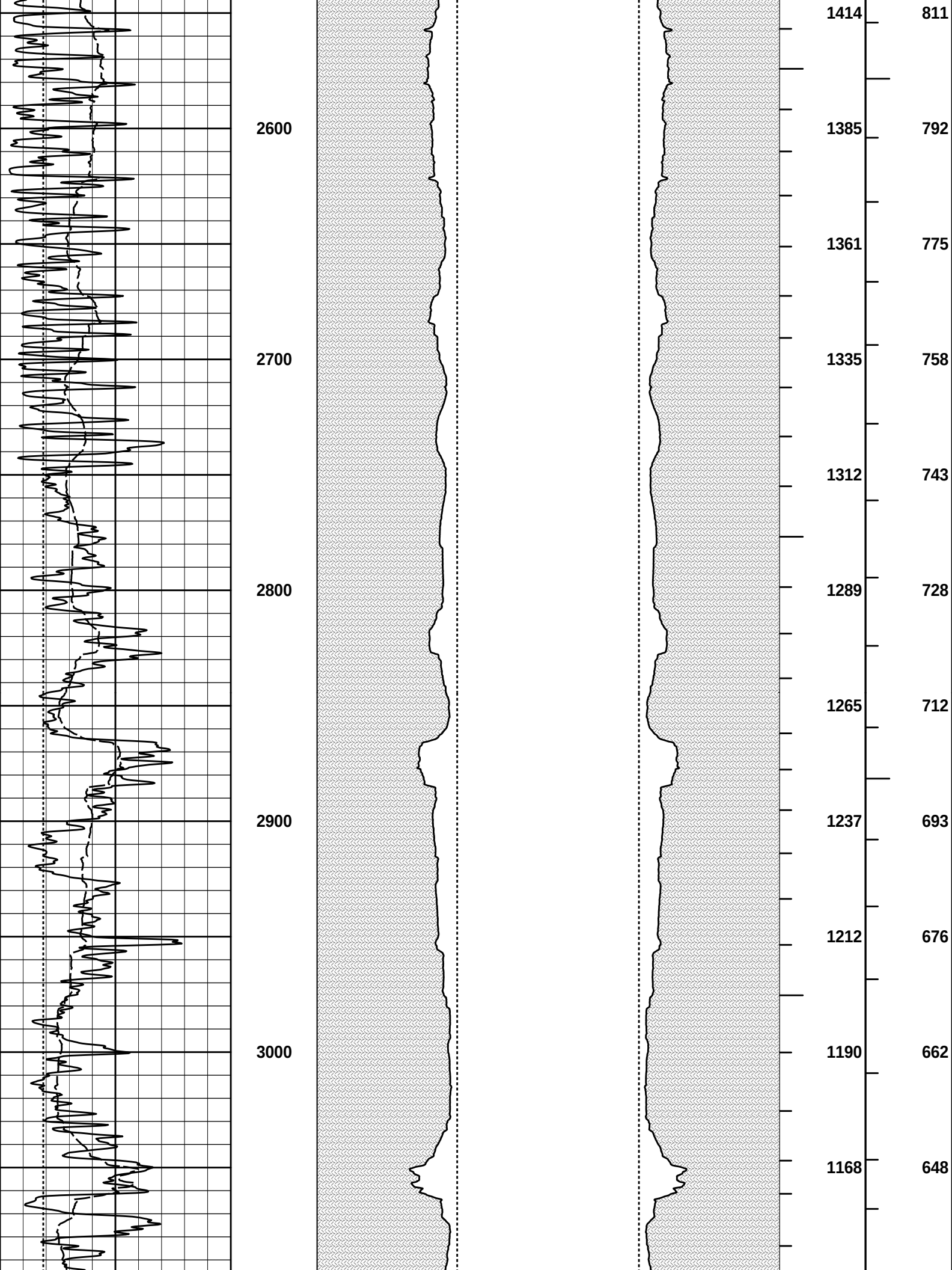
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250

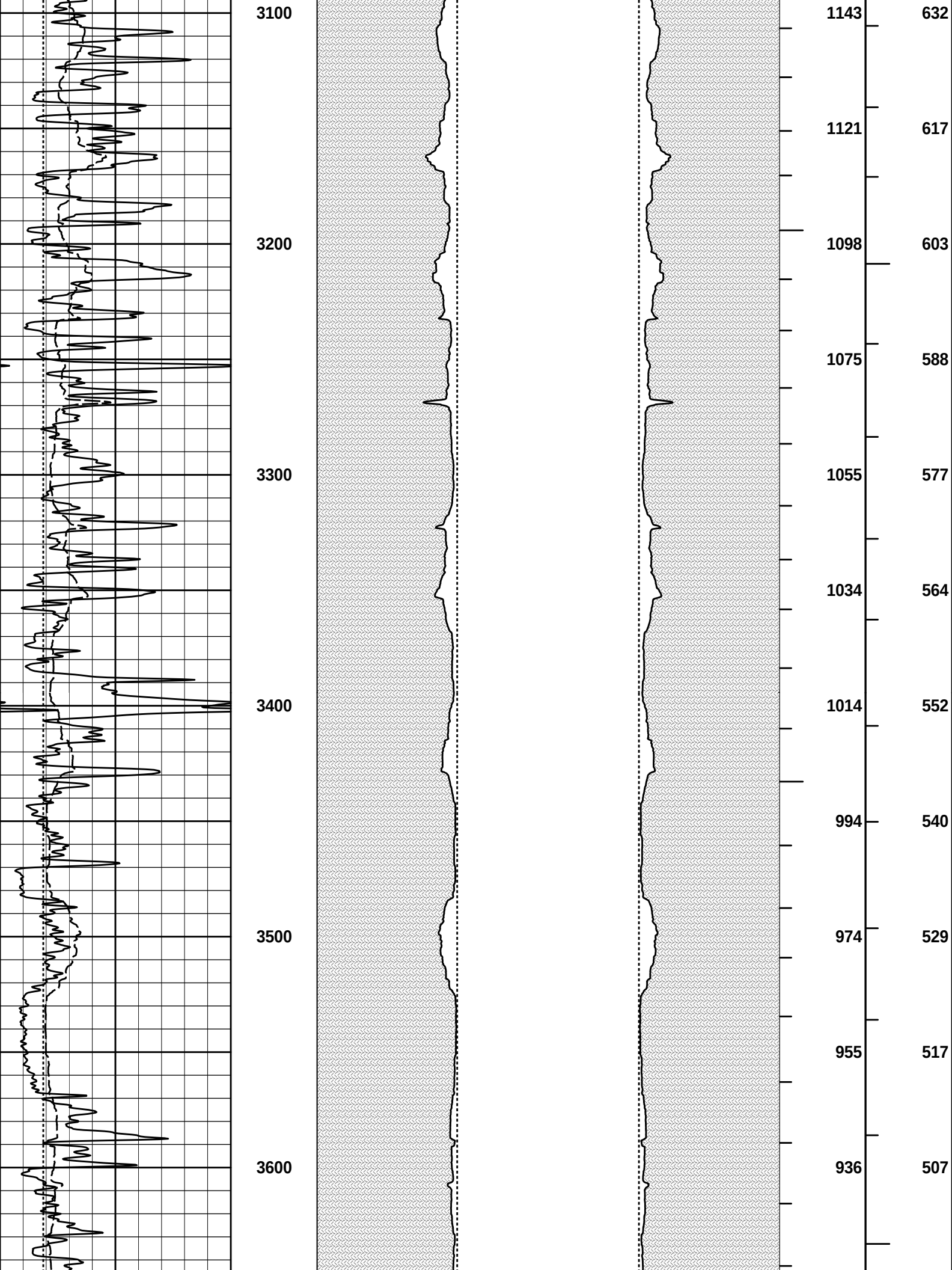
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential Offset	50.81	NO	
GTET				
TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
SDLT				
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
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
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

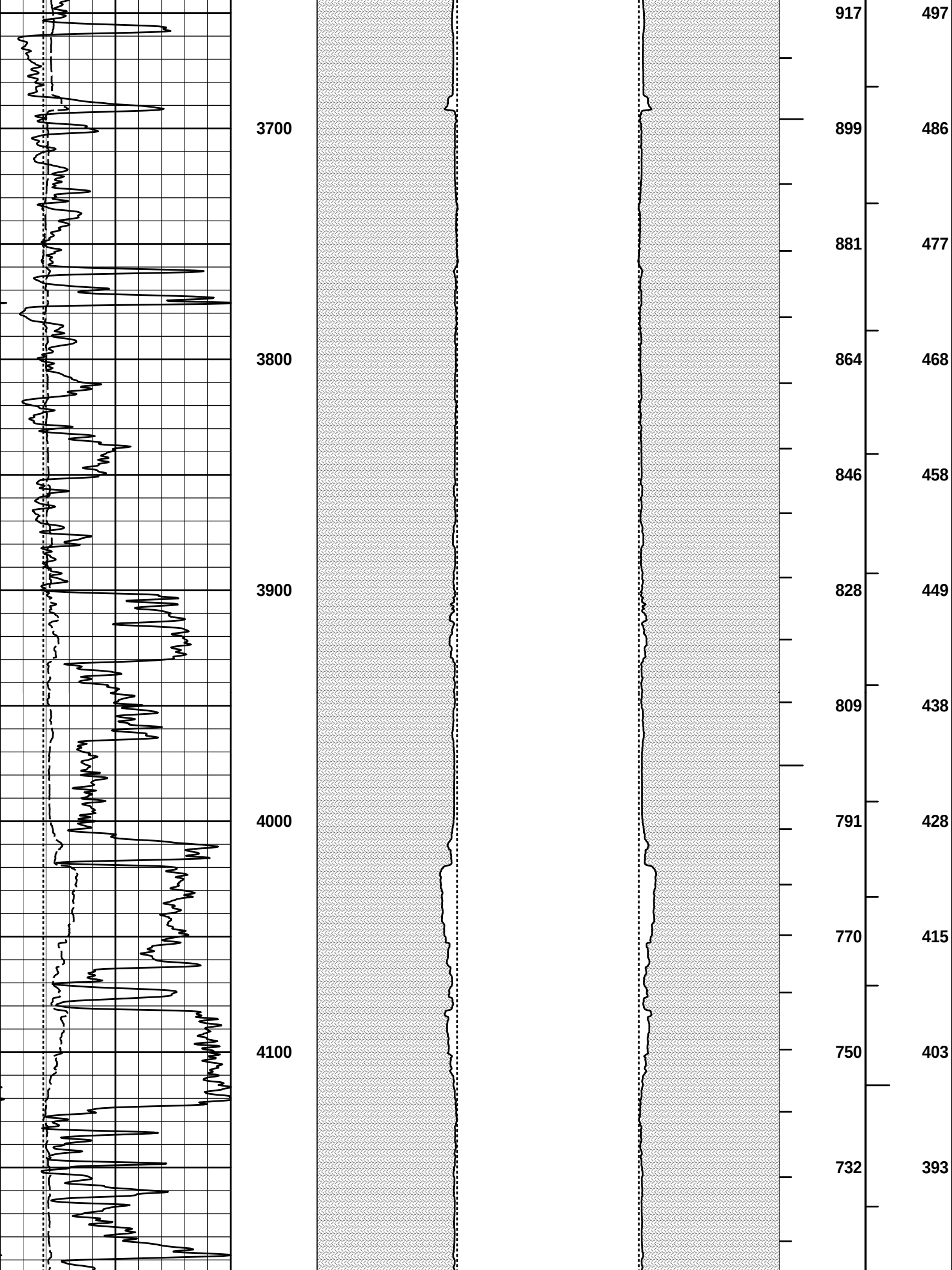
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	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 Reference 12 KHz Real Signal	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	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250
NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250
FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	22.04	NO	
FHV	Far Detector High Voltage	22.04	NO	
ITMP	Instrument Temperature	22.04	NO	
DDHV	Detector High Voltage	22.04	NO	
Microlog Pad				
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750
Data: ANGELL #4-6I0001 SP-GTET-DSN-SDL-ACRT-CH\004 18-Nov-12 13:04 Up @6199.5f			Date: 18-Nov-12 14:36:23	

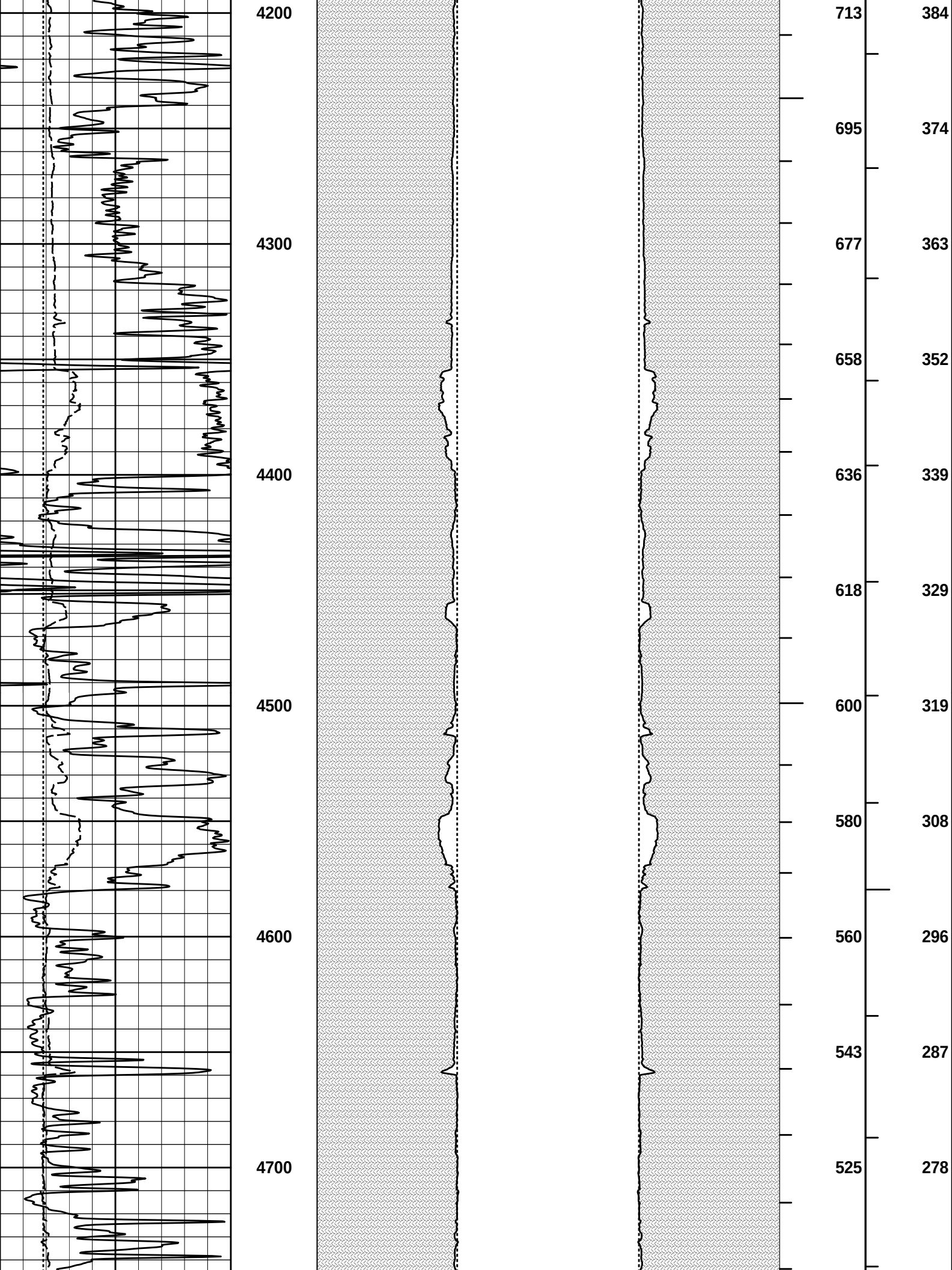
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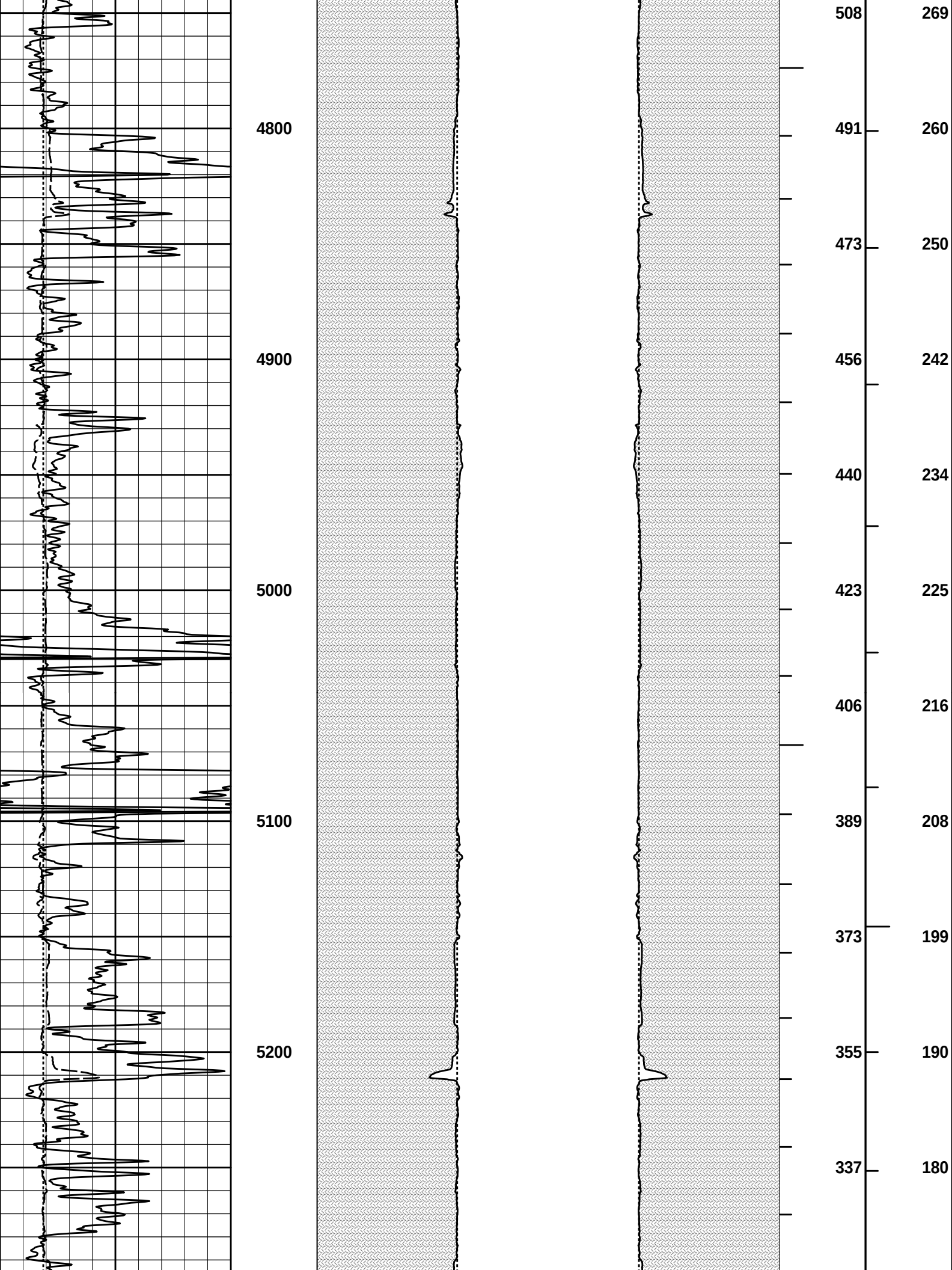


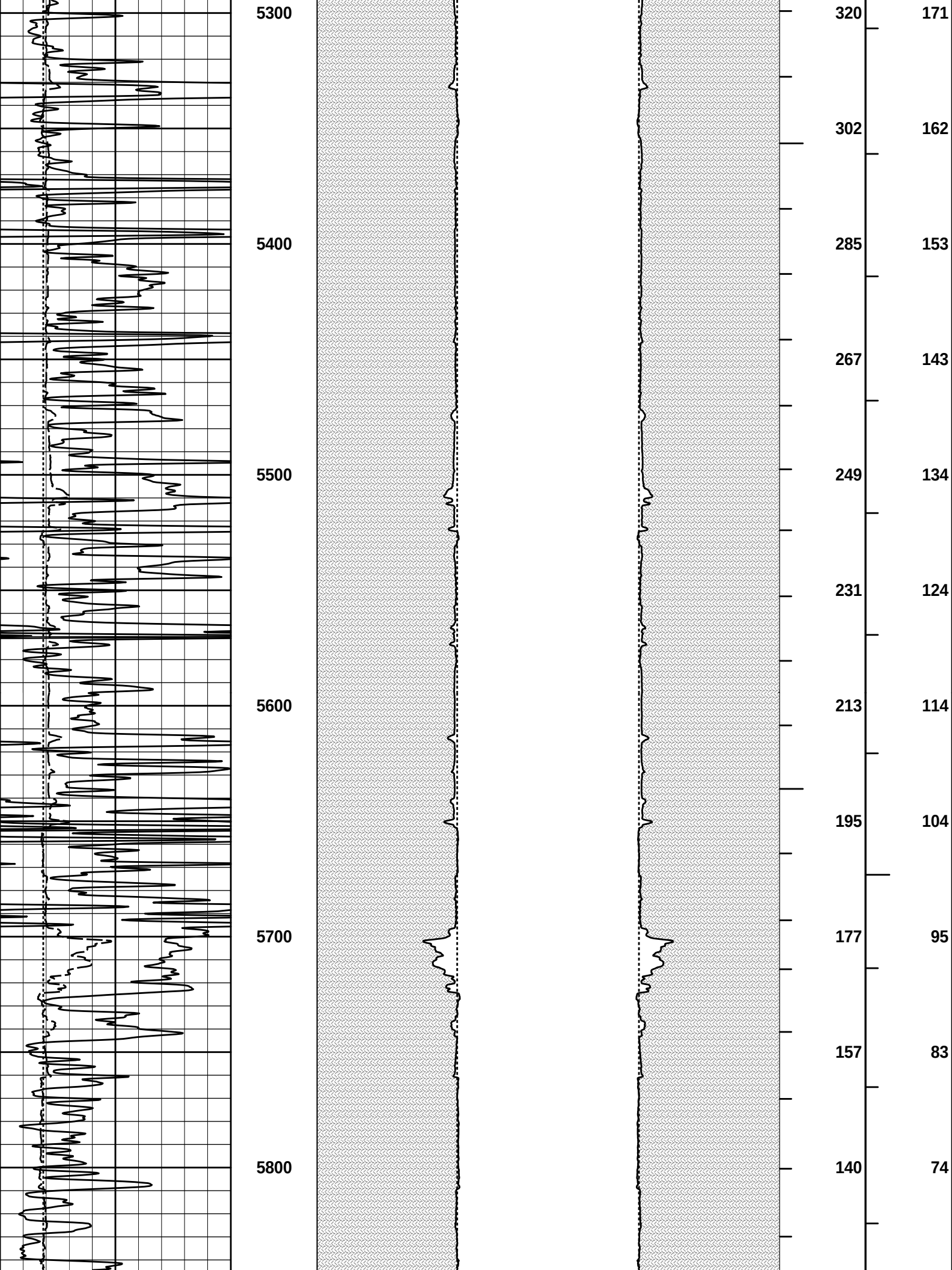


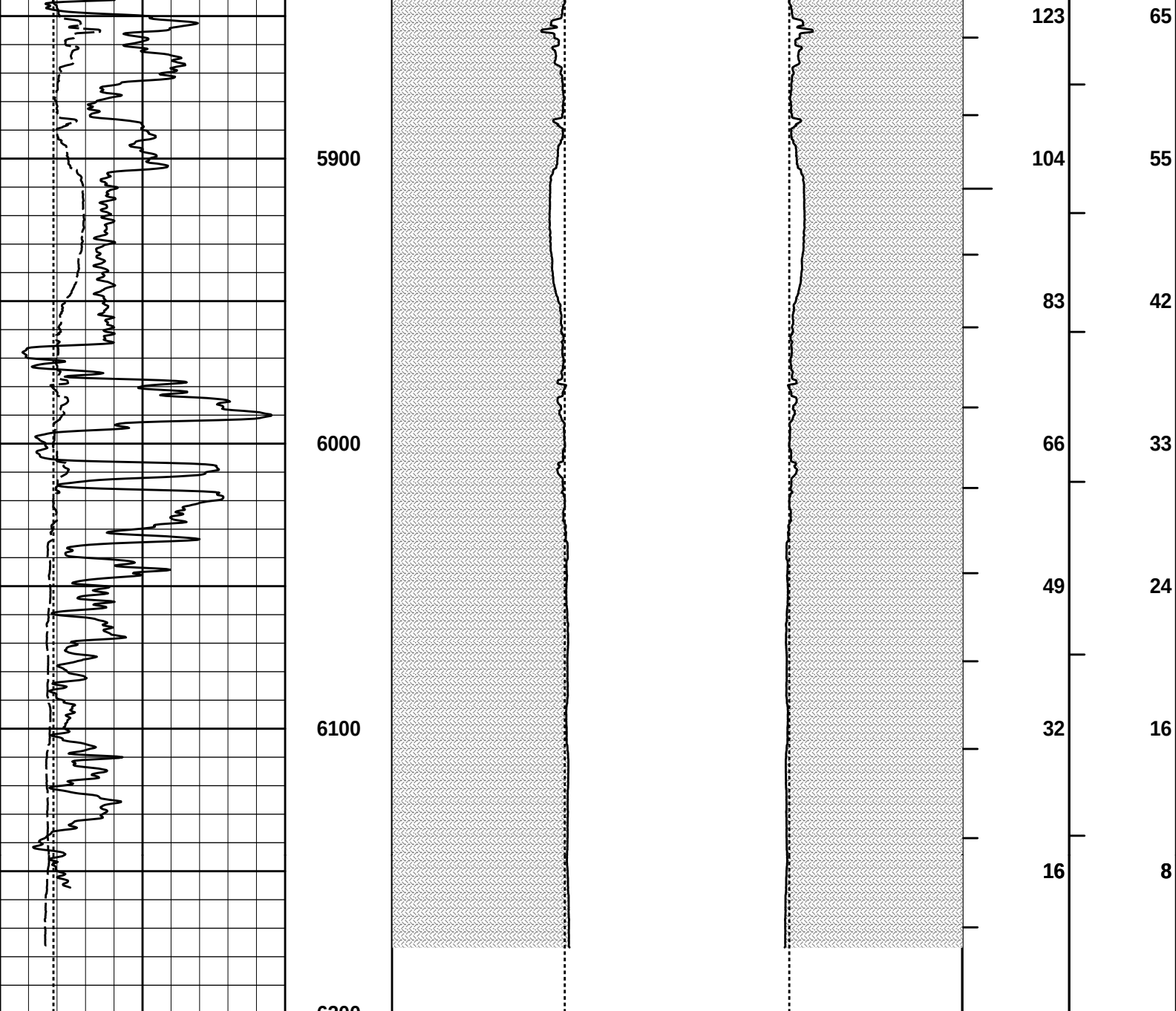












6	Caliper	16	MD 1 : 600 ft	20	Caliper	0 0	20	BHVT	AHVT
	inches				inches				
6	Bit Size	16		20	Bit Size	0 0	20		
	inches								
0	Gamma API	150							
	api								

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Plot Time: 18-Nov-12 15:49:07
Plot Range: 1600 ft to 6199.5 ft
Data: ANGELL #4-6\Well Based\ACRT\
Plot File: \\-LOCAL-ANGELL #4-6\Well Based\POROSITY\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT

COMPANY EVANS ENERGY LLC.

WELL ANGELL #4-6

FIELD	ANGELL		
COUNTY	MEADE	STATE	KANSAS
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY LOG	