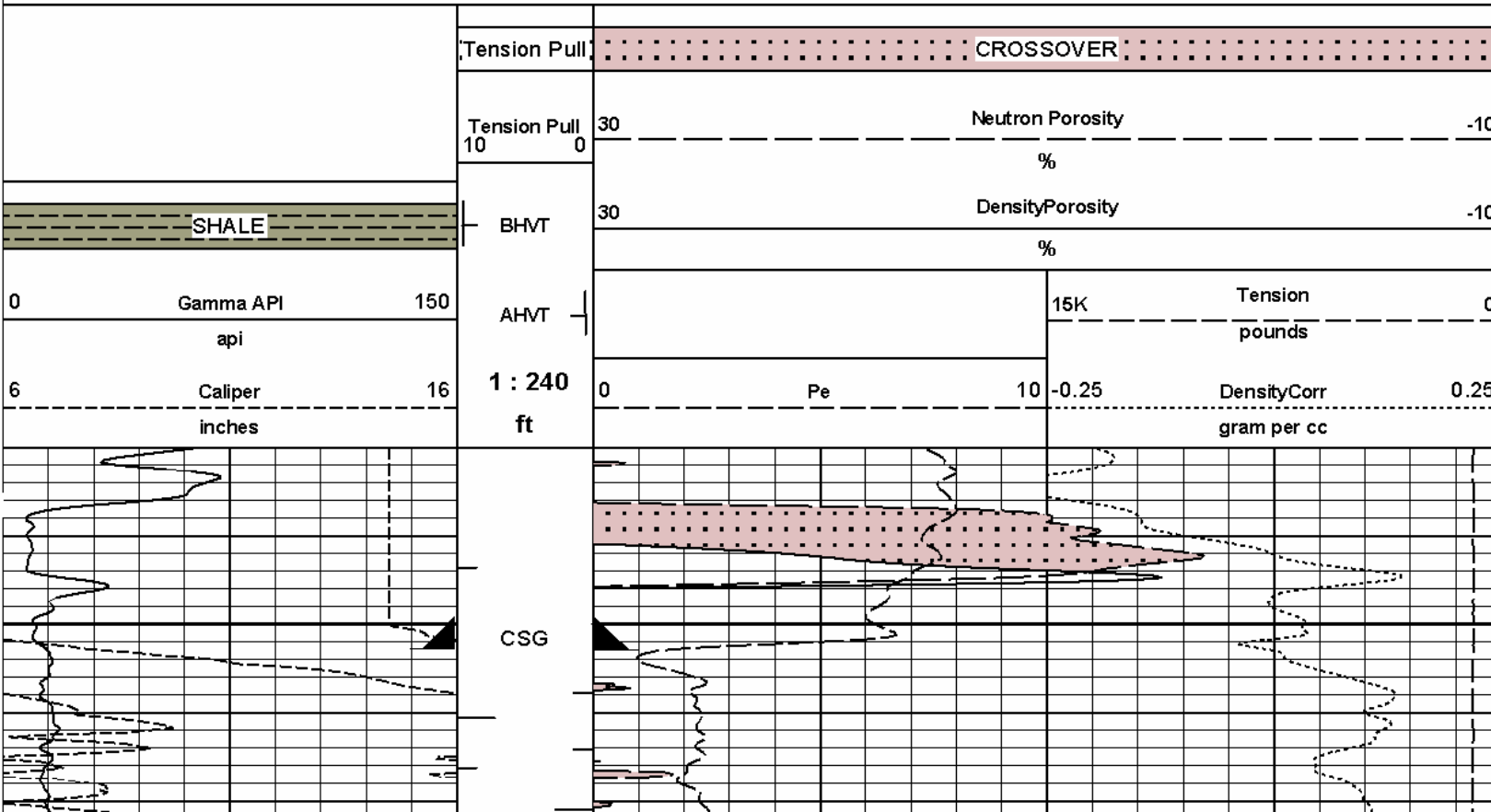
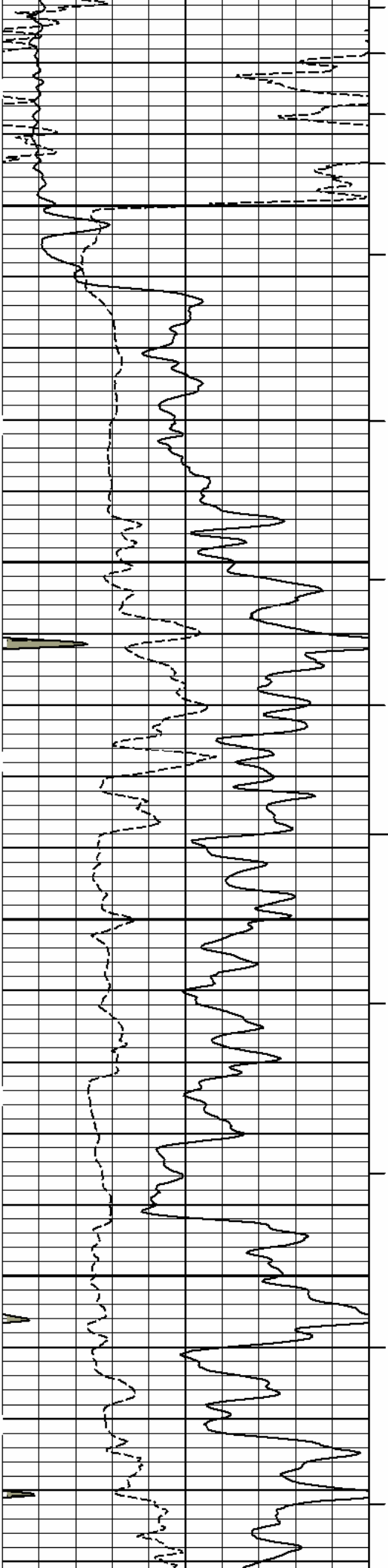


**SPECTRAL DENSITY
DUAL SPACED NEUTRON
LOG**

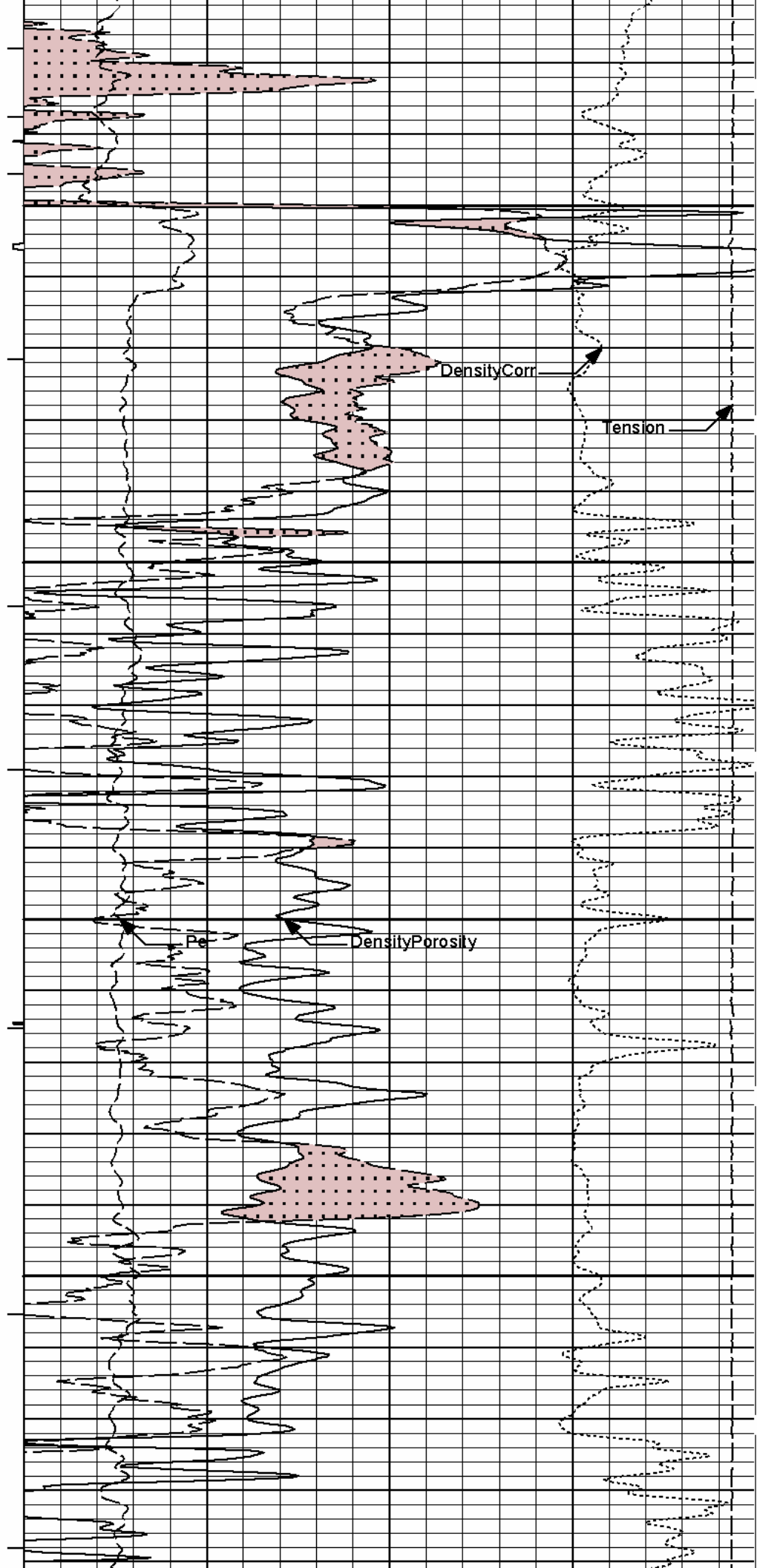
Service Ticket No.: 8205394						API Serial No.: 15-081-21937						PGM Version: WL INSITE R3.2.0 (Build 7)							
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES							
Date		Sample No.										Type Log		Depth		Scale Up Hole		Scale Down Hole	
Depth-Driller																			
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.				@		@													
Rmc @ Meas. Temp.				@		@													
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.		11050378		Serial No.				Serial No.		104_P84		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.		T-102		Spacing				Log Type		GAM-GAM		Log Type		NEU-NEU					
Type		SCINT						Source Type		CS137		Source Type		AM241BE					
Length		8"		LSA [Y/N]				Serial No.		5168GW		Serial No.		DSN-424					
Distance to Source		10'		FWDA [Y/N]				Strength		1.5 CI		Strength		15 CI					
LOGGING DATA																			

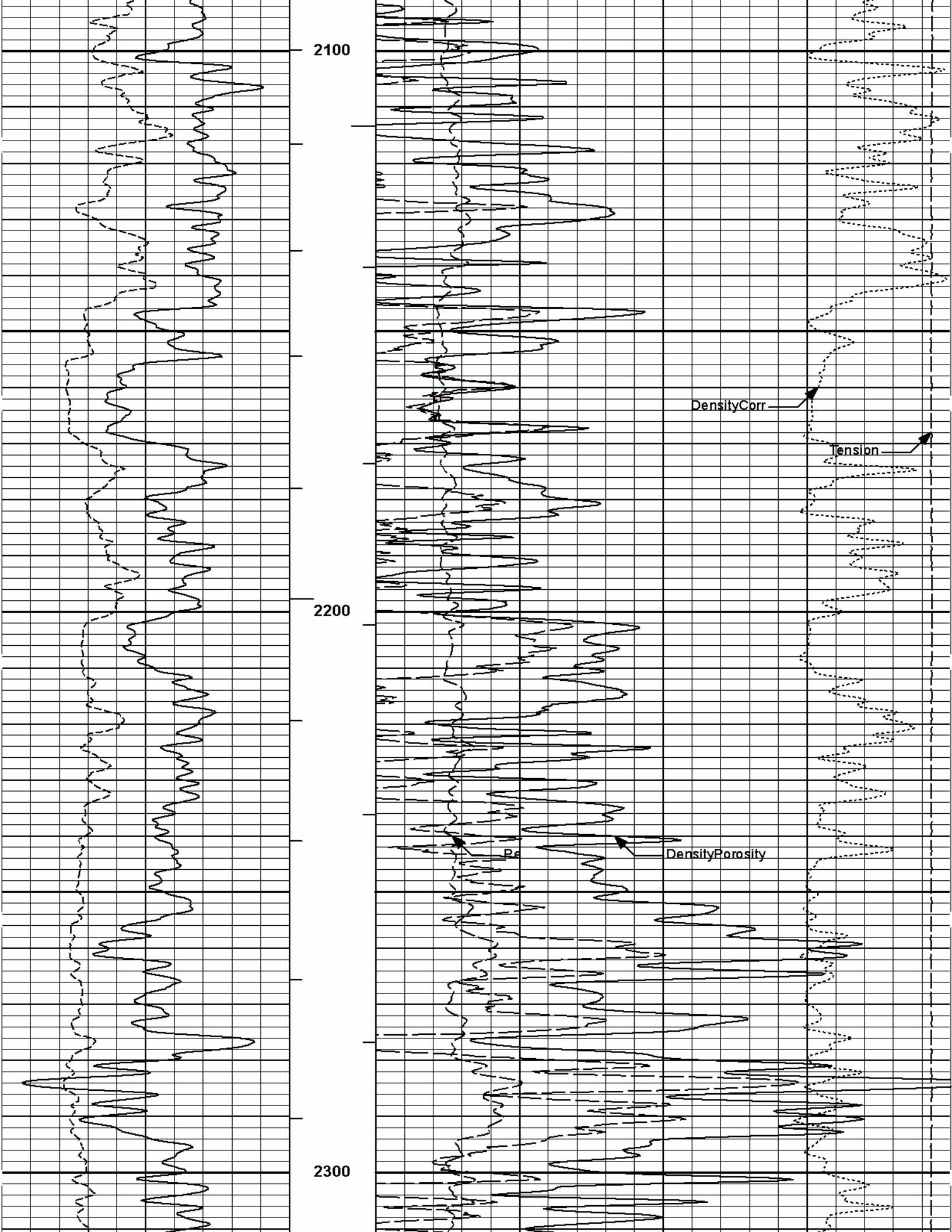


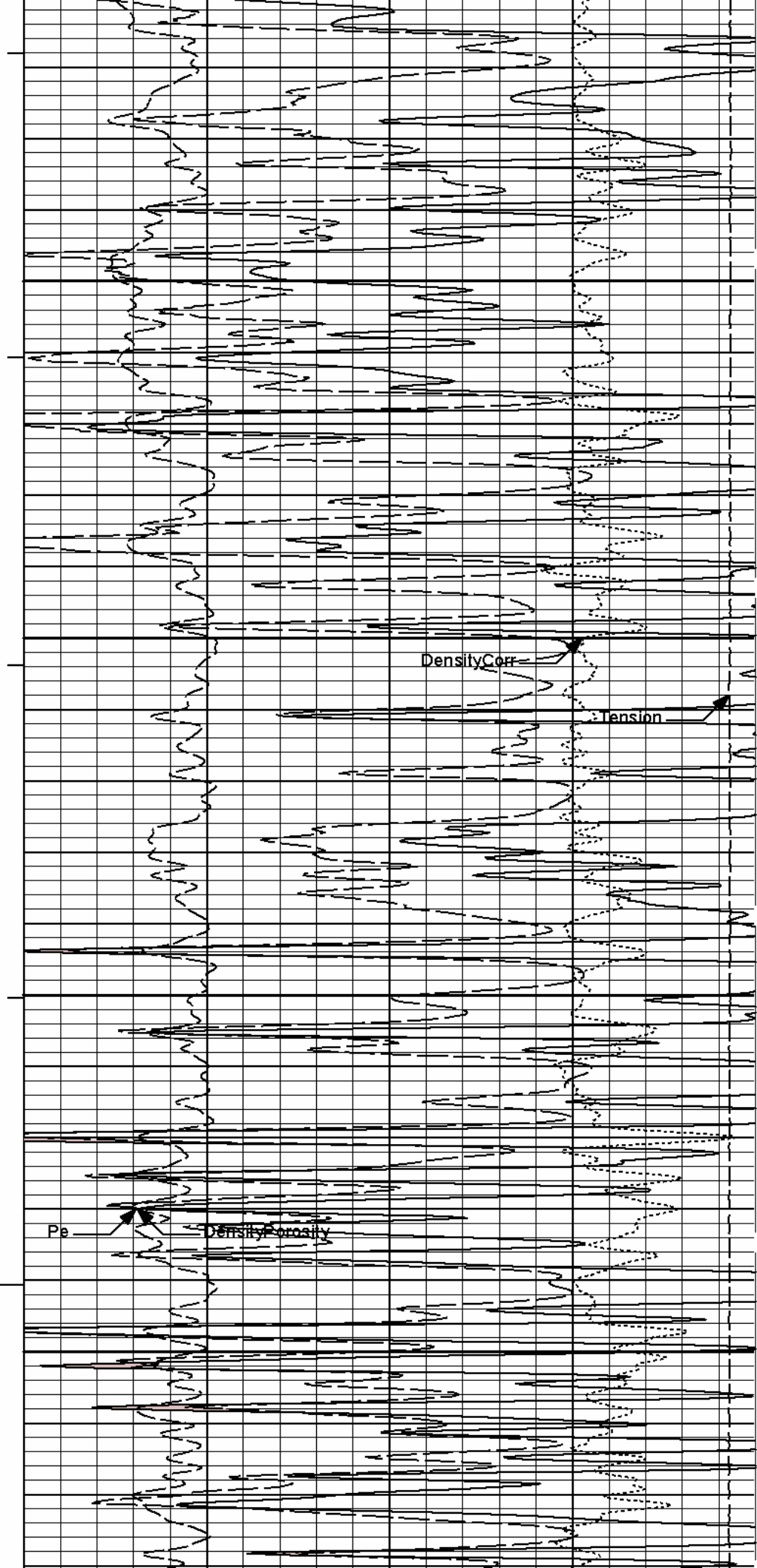
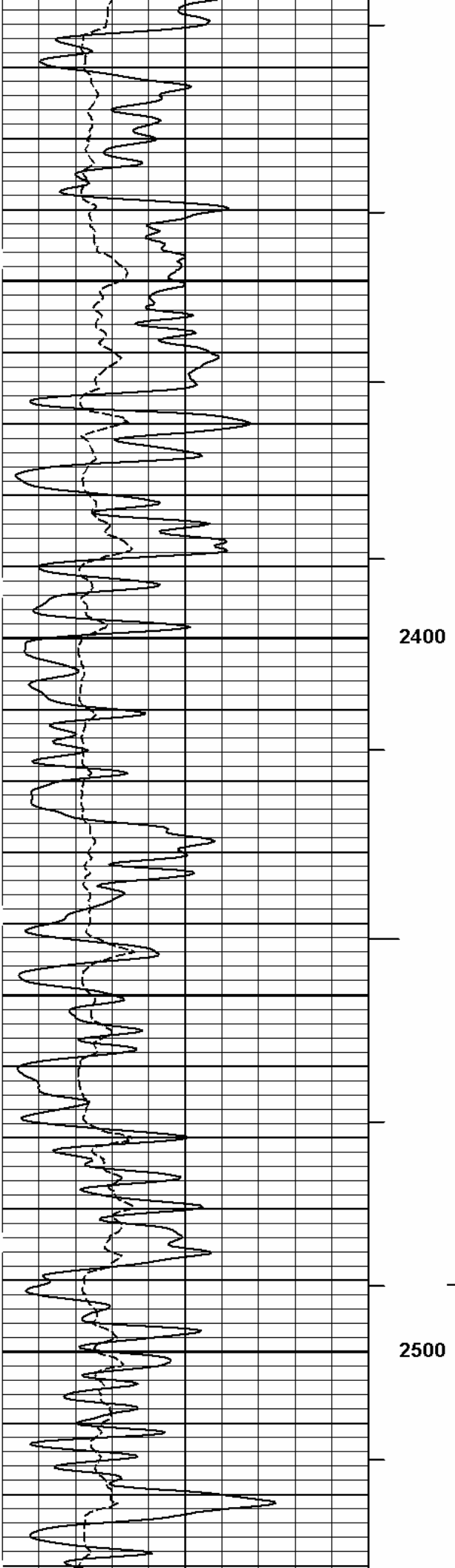


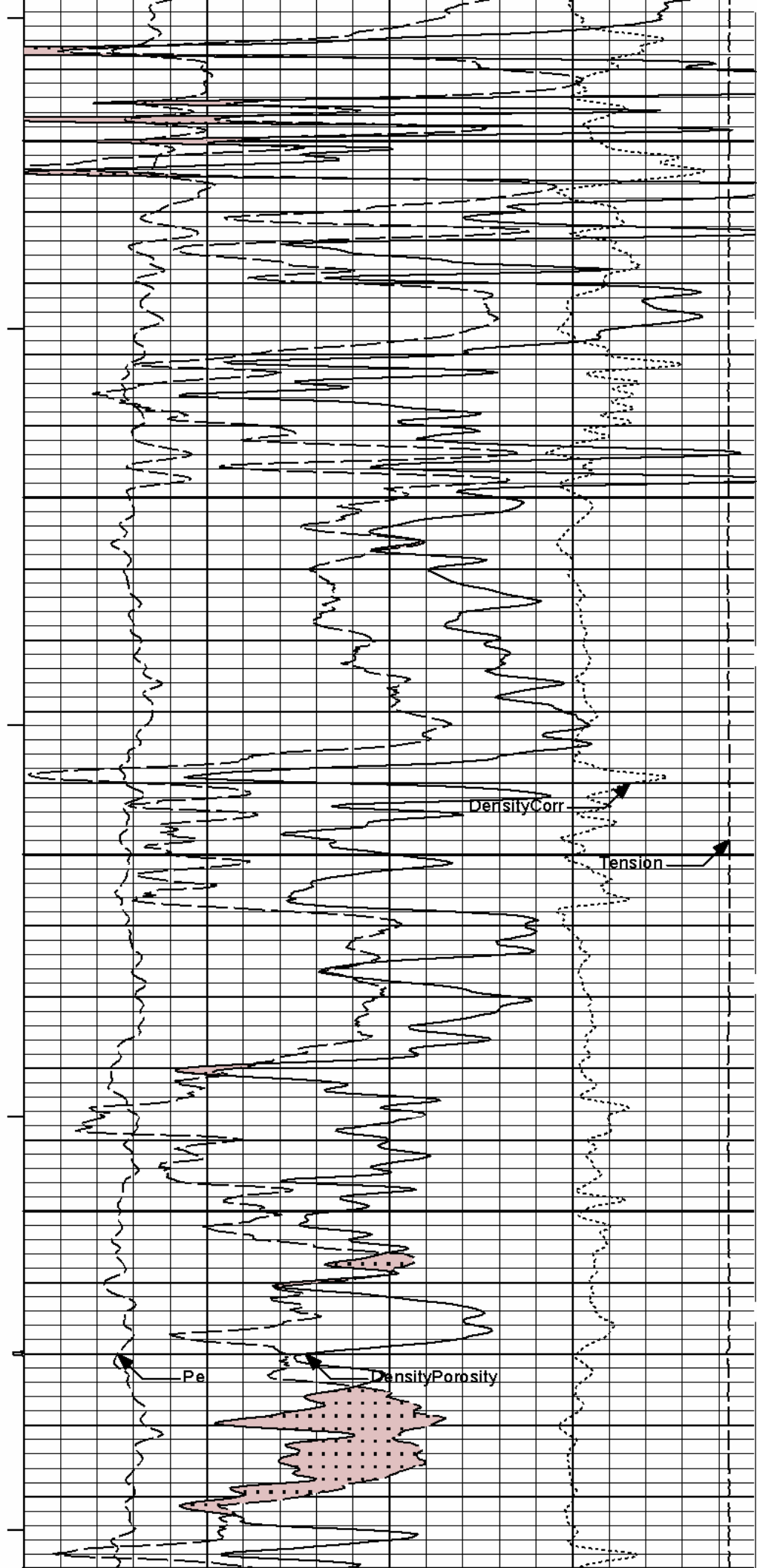
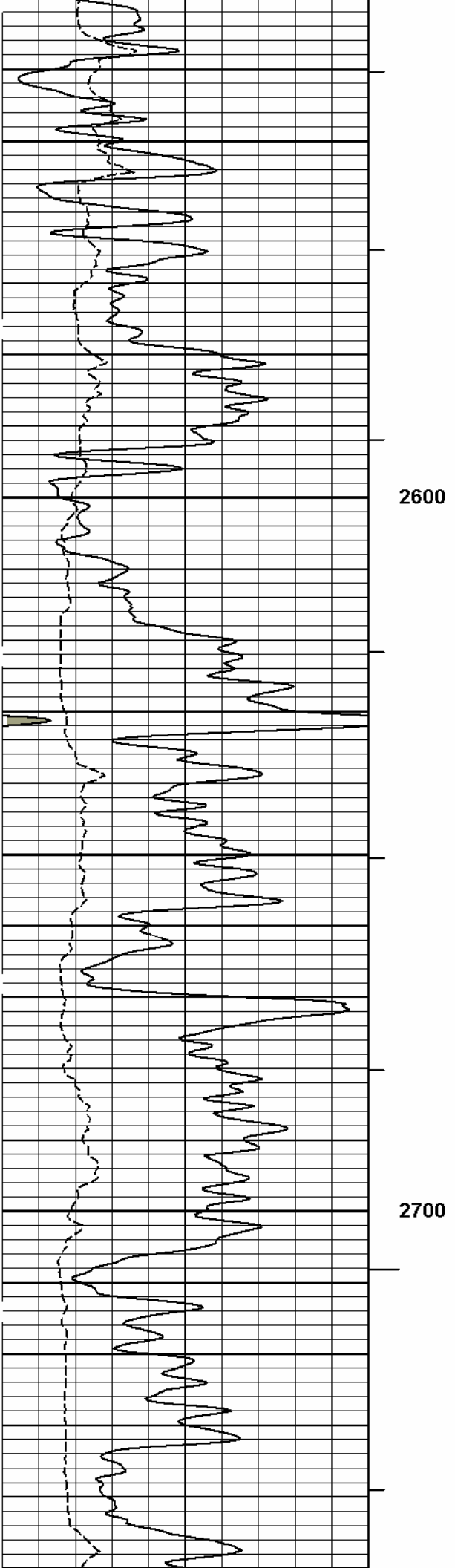
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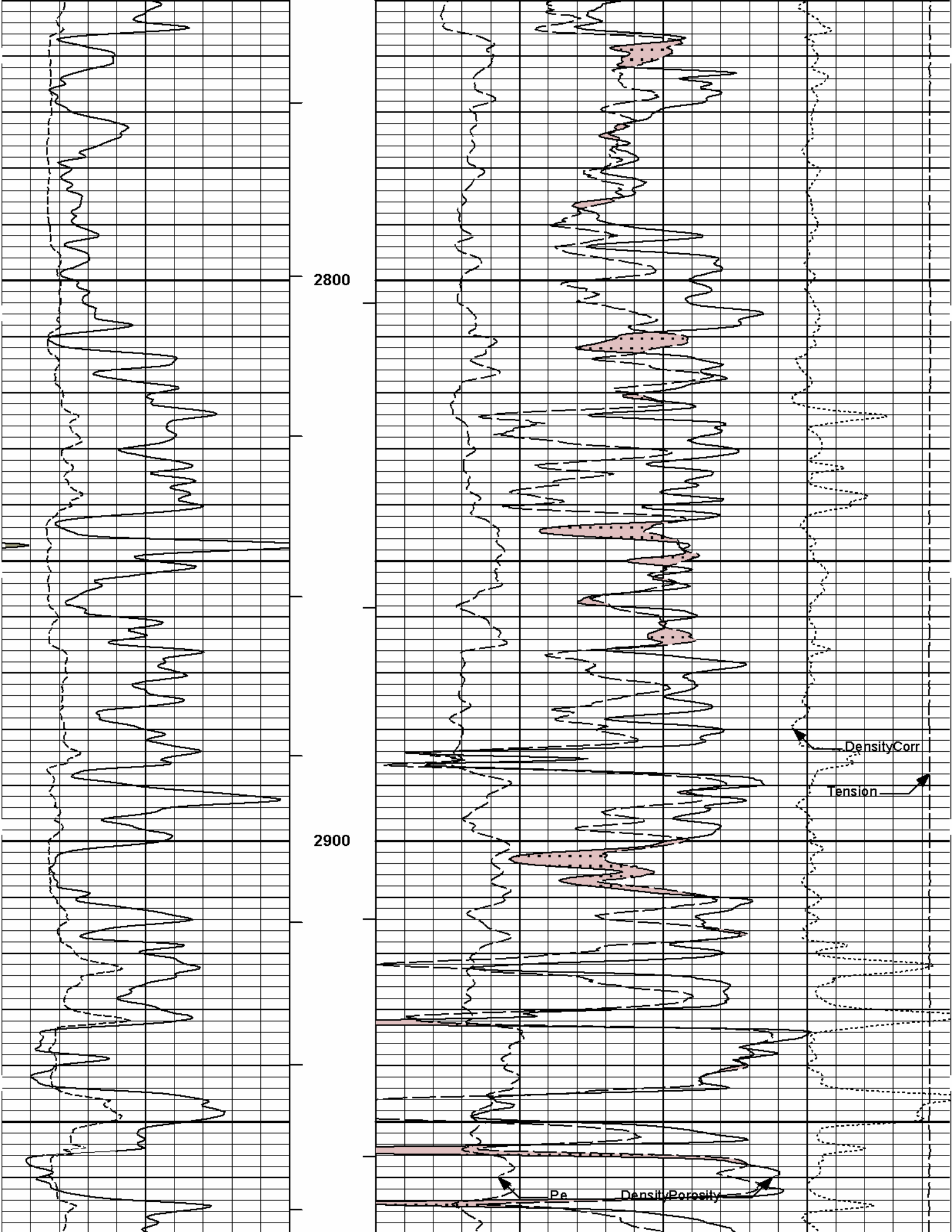
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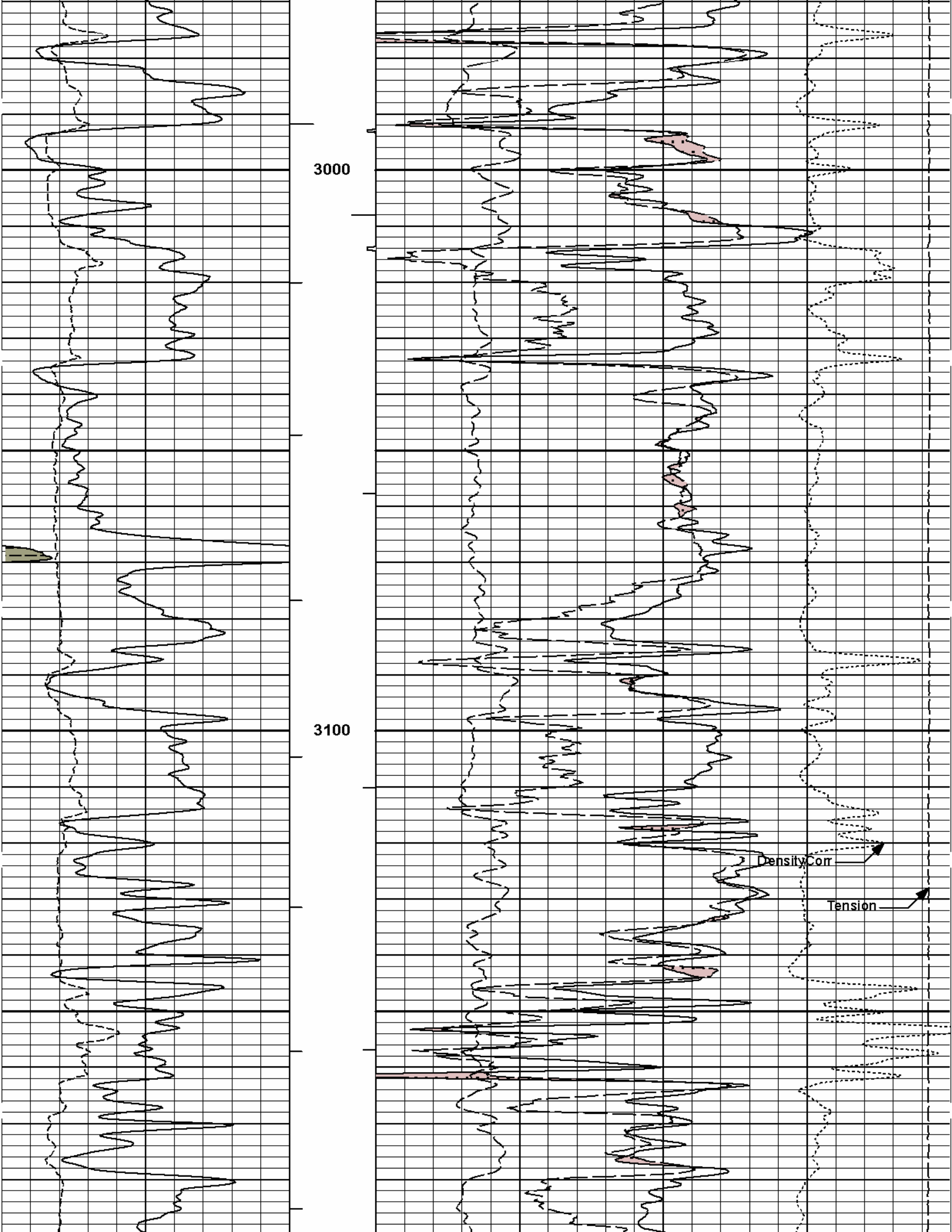


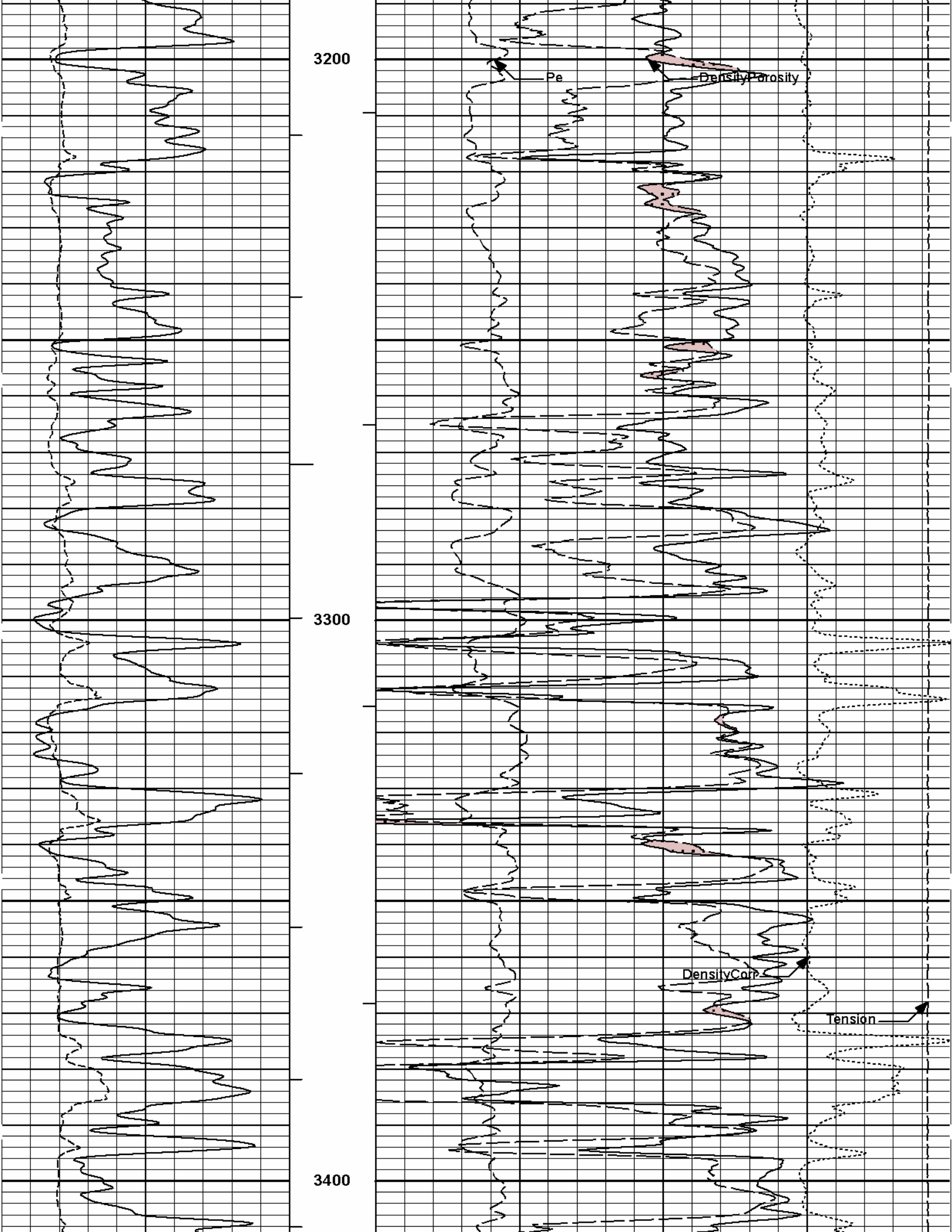


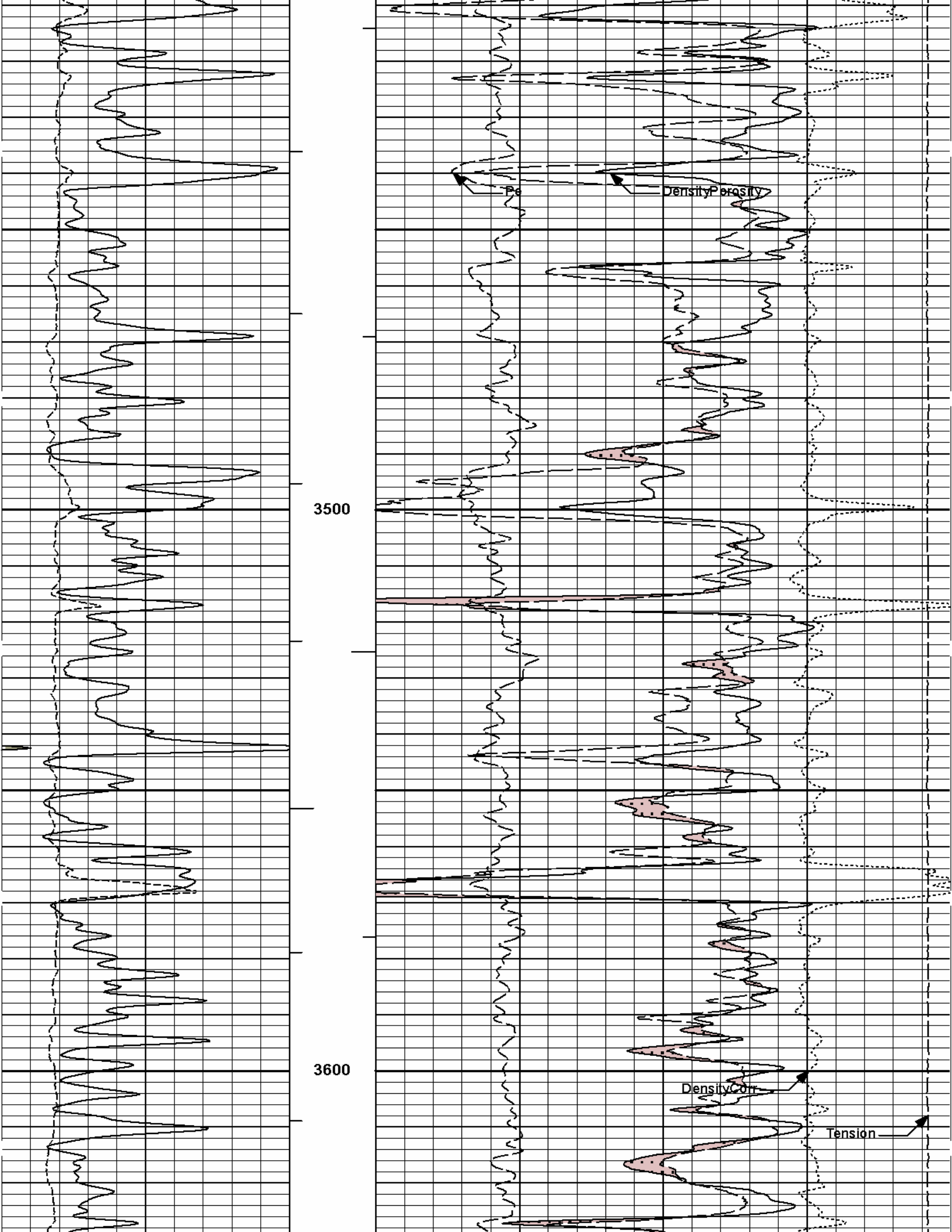


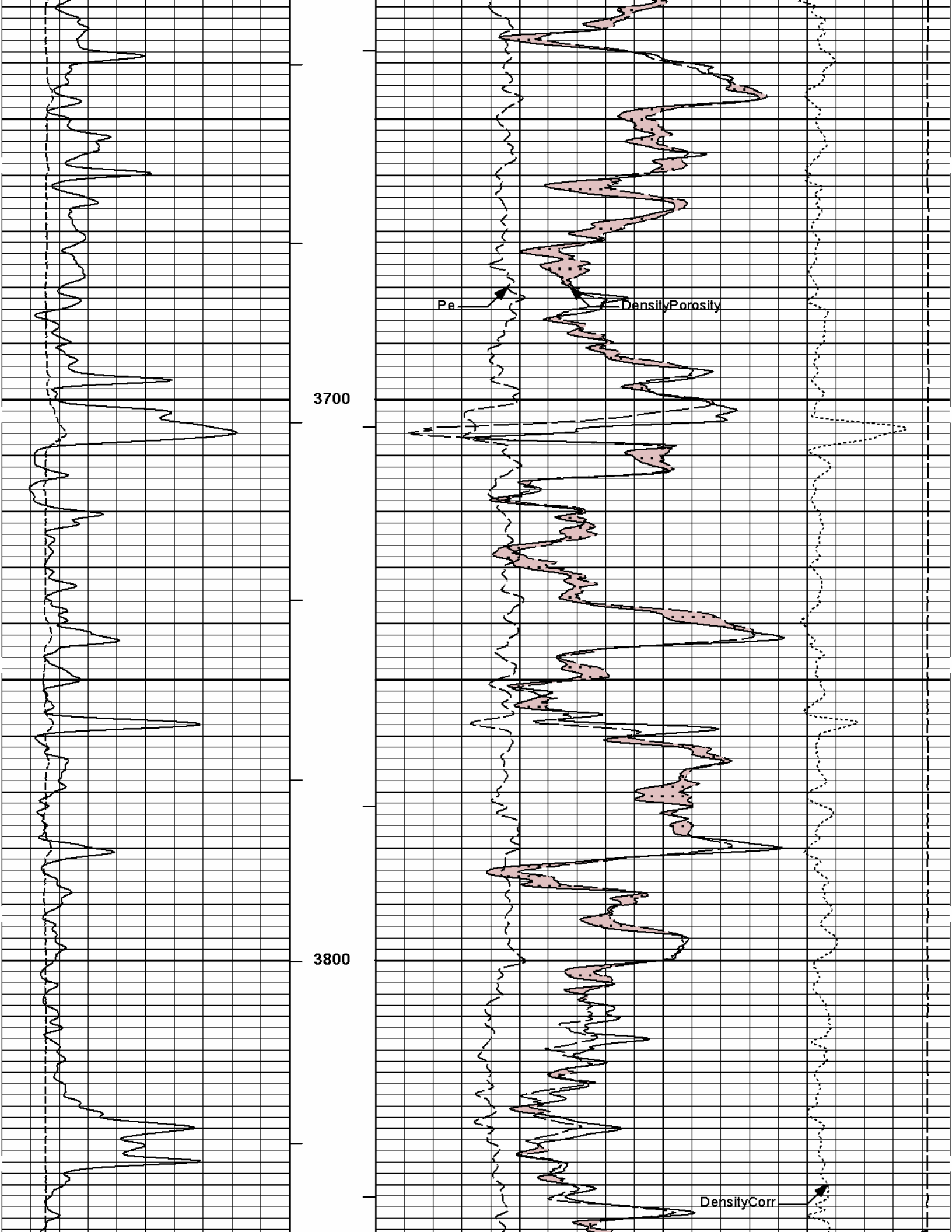


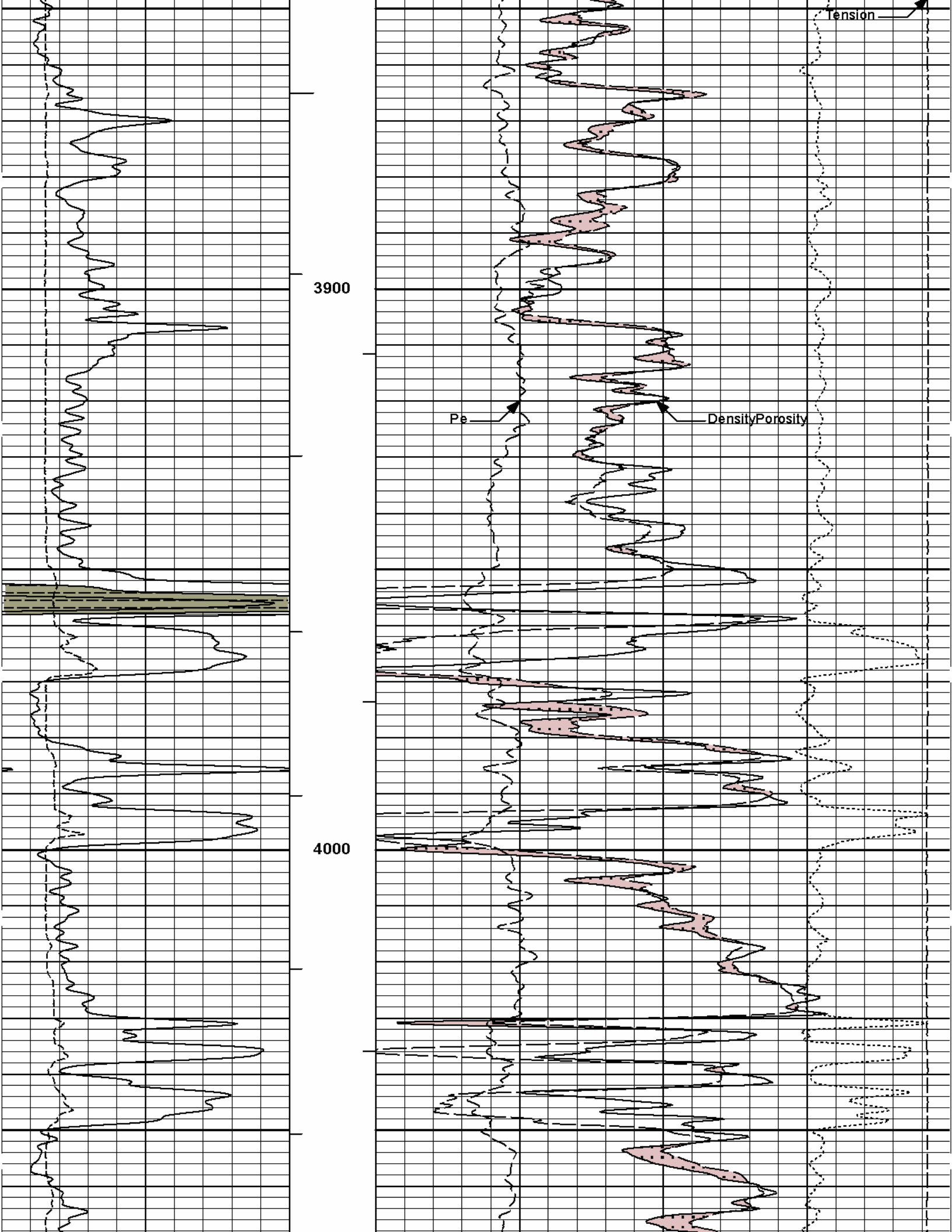


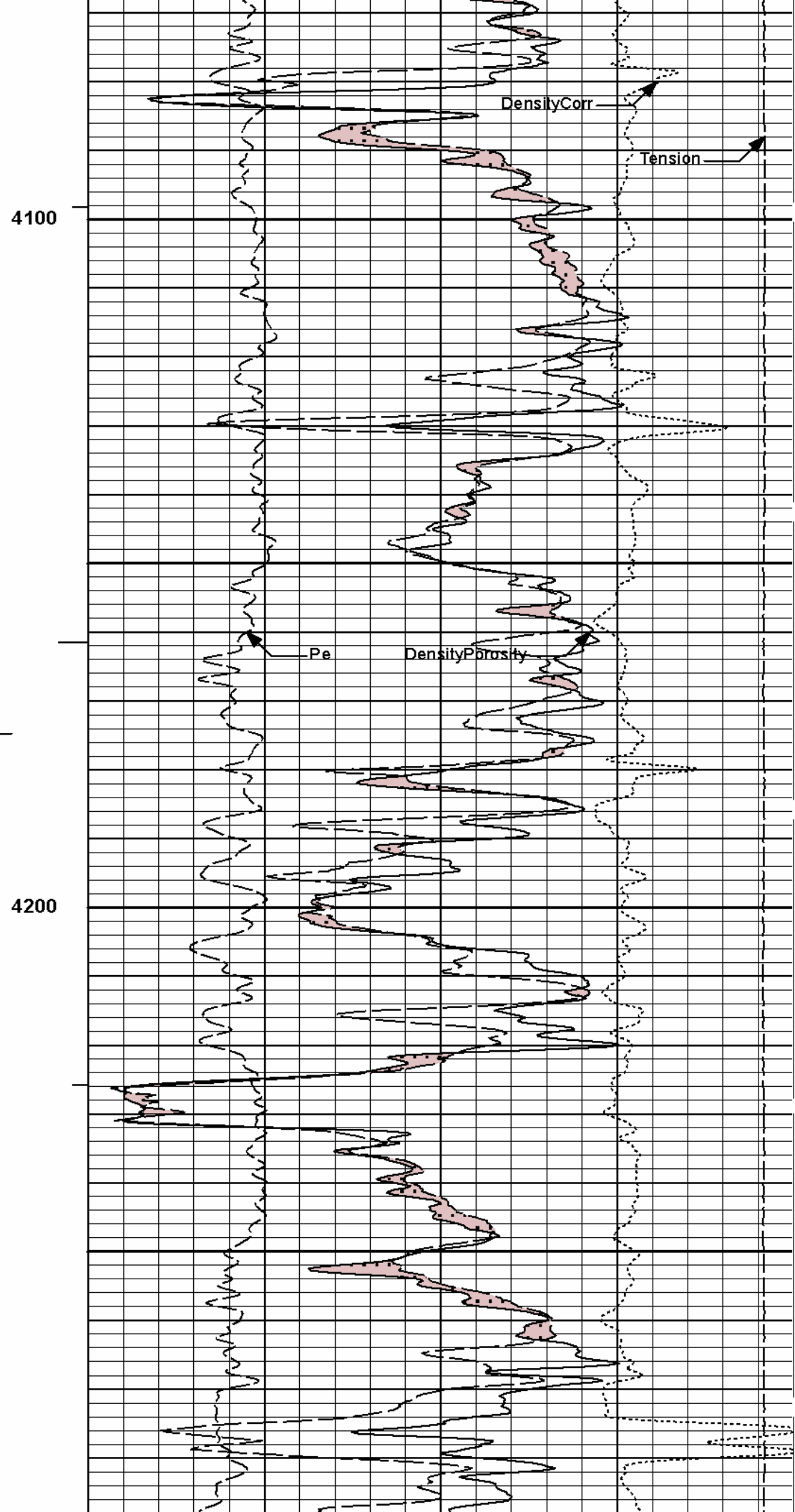


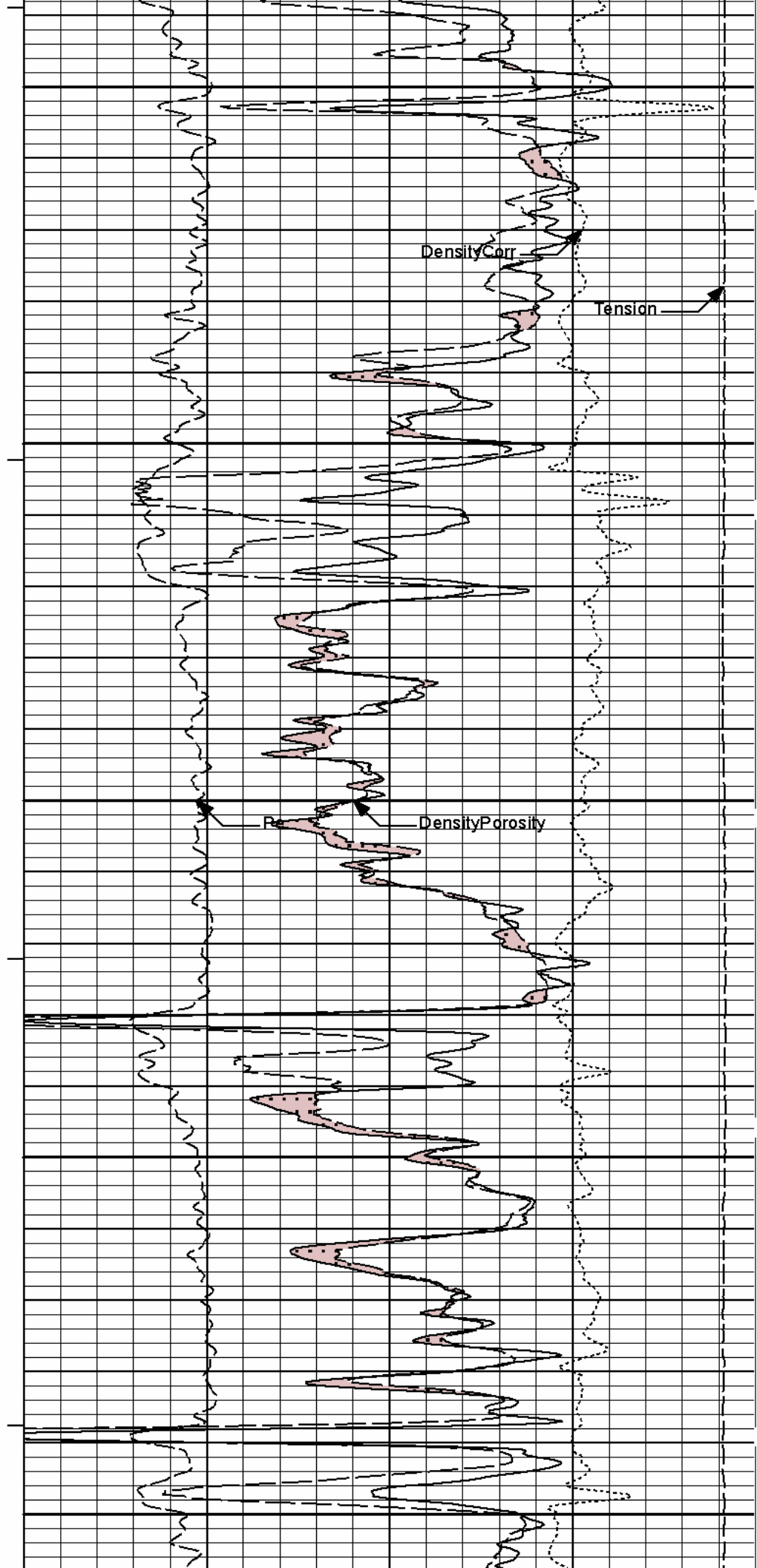
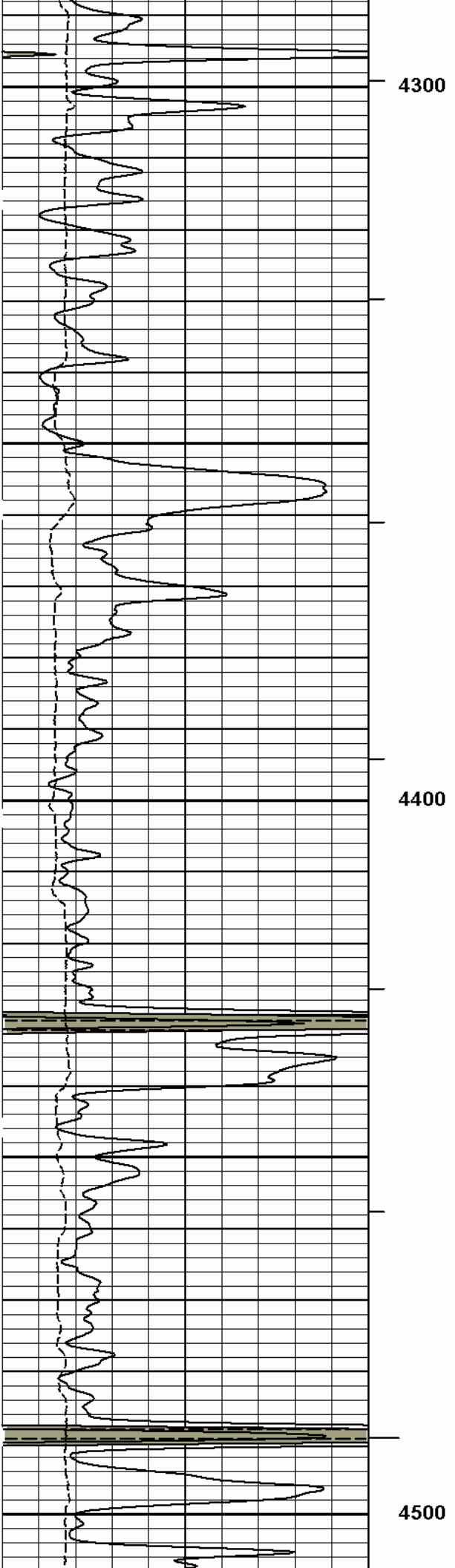


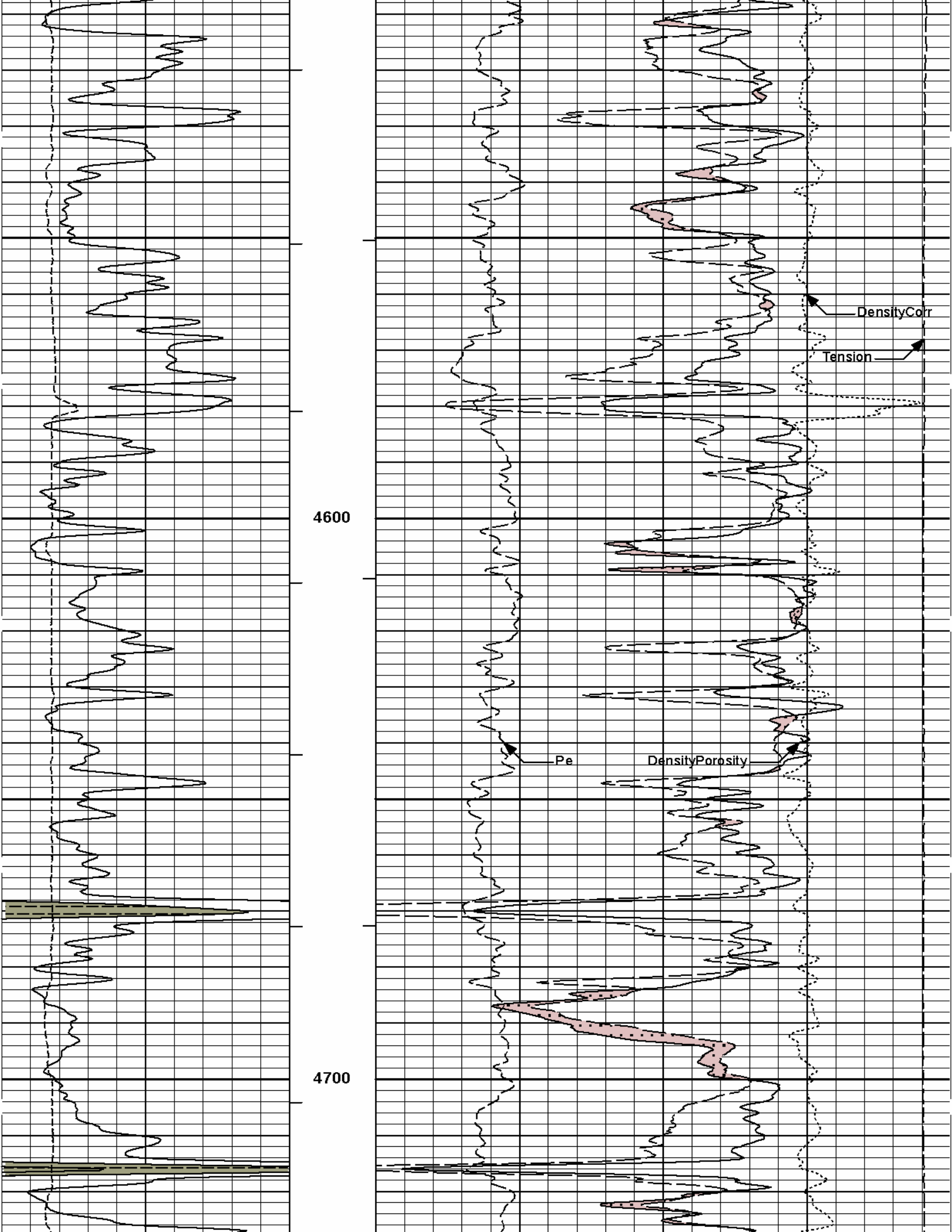


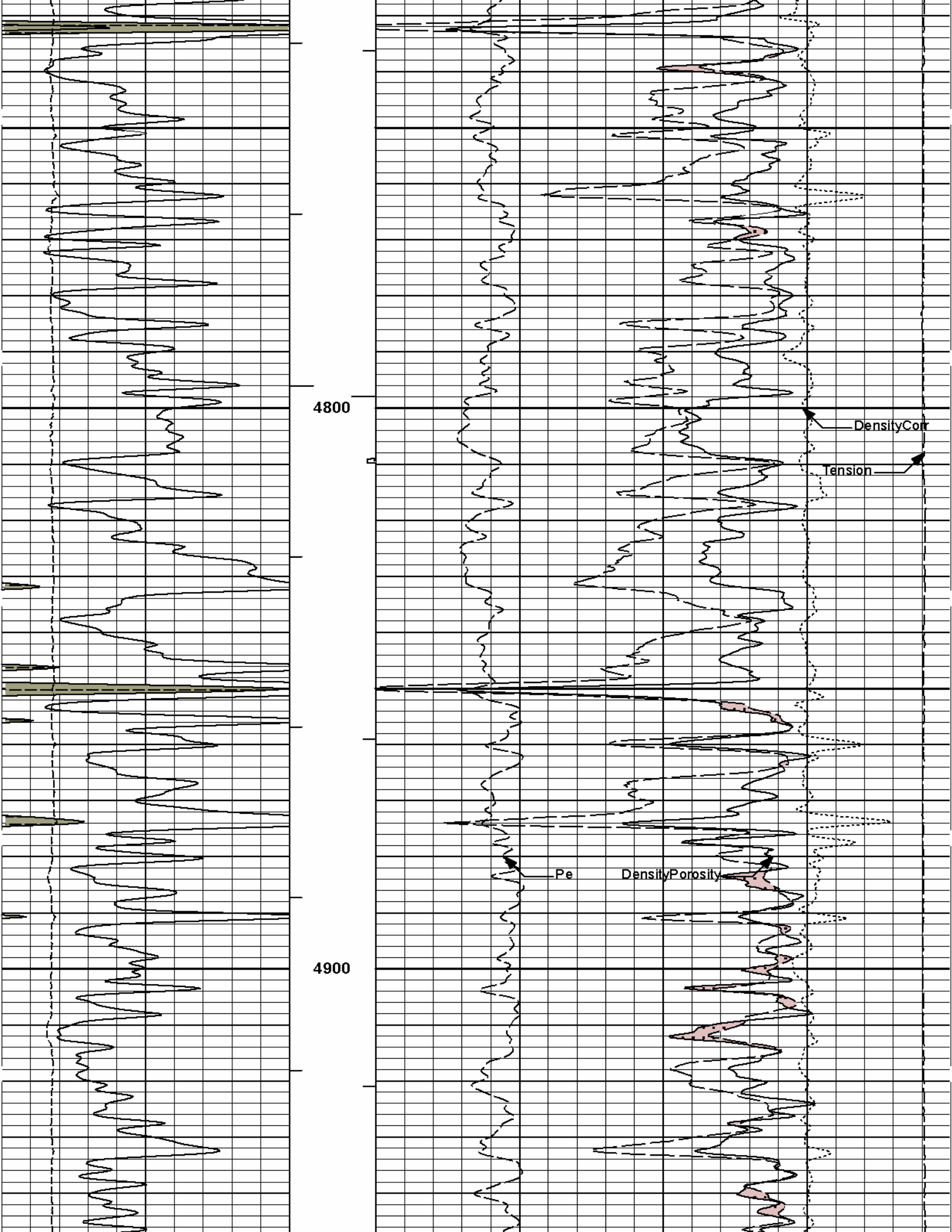


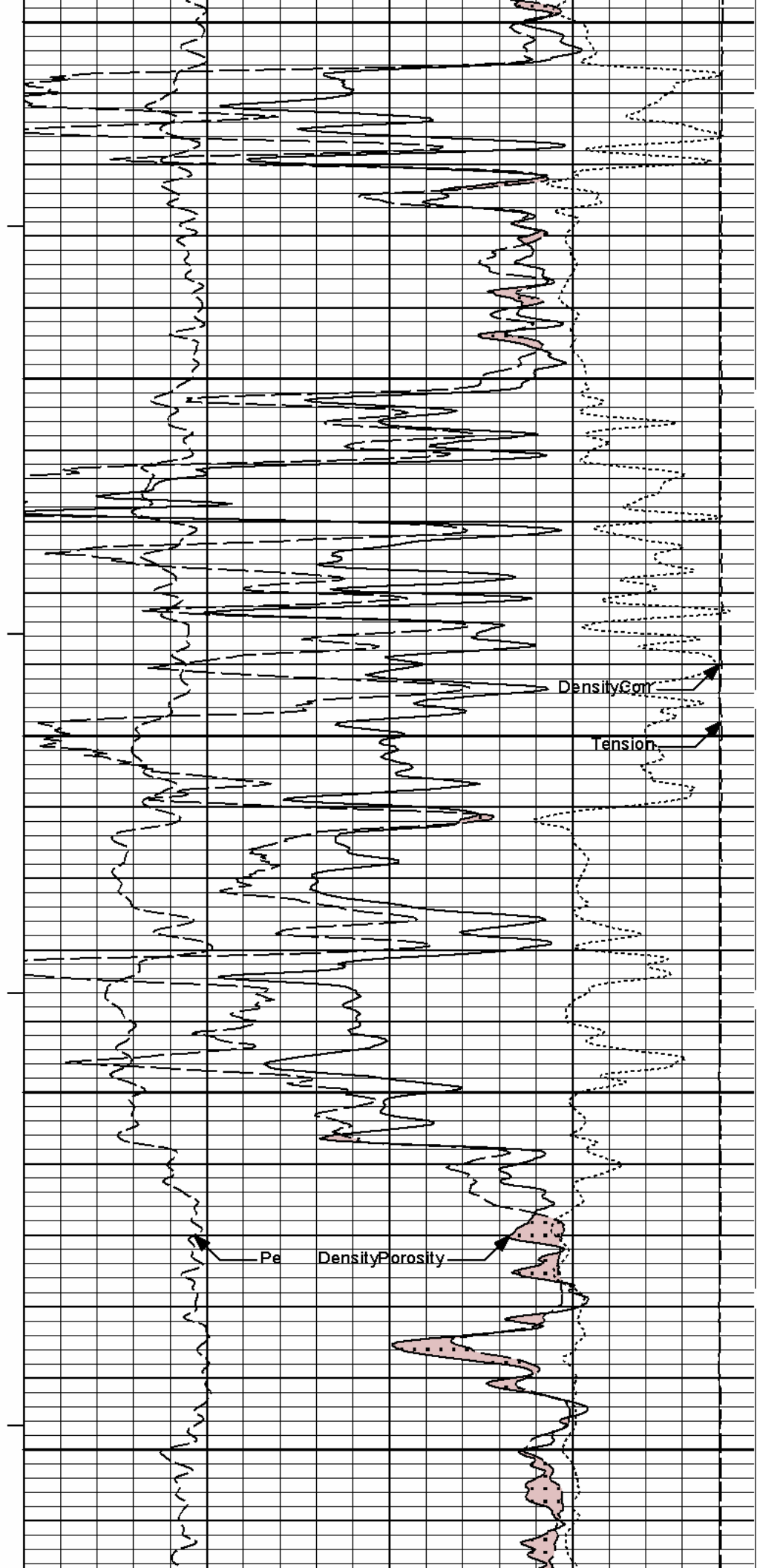
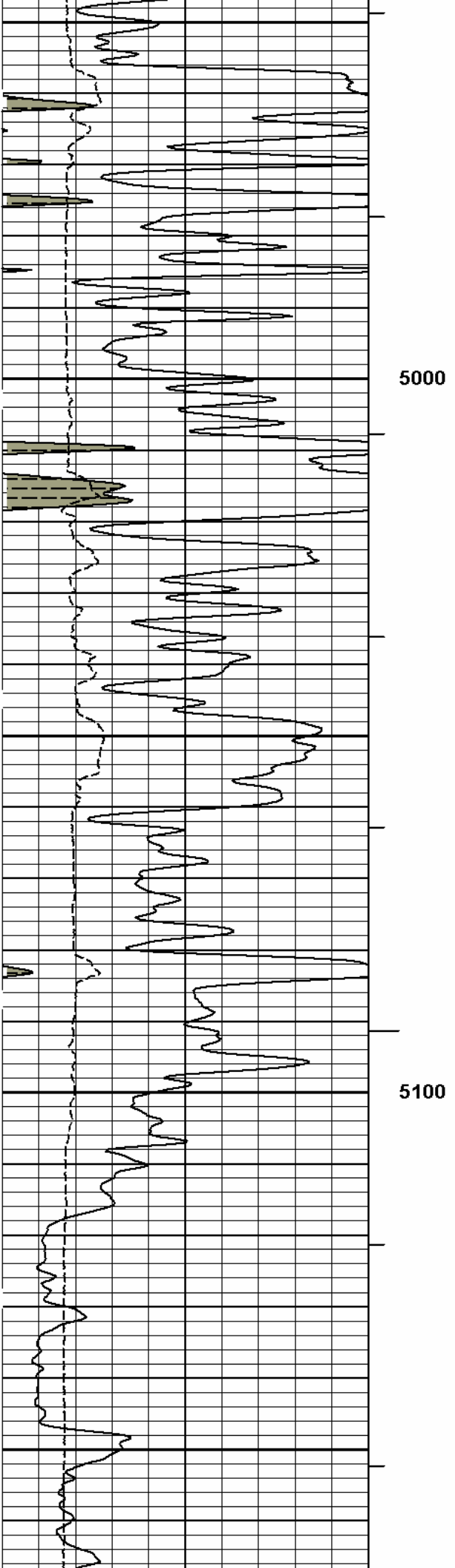


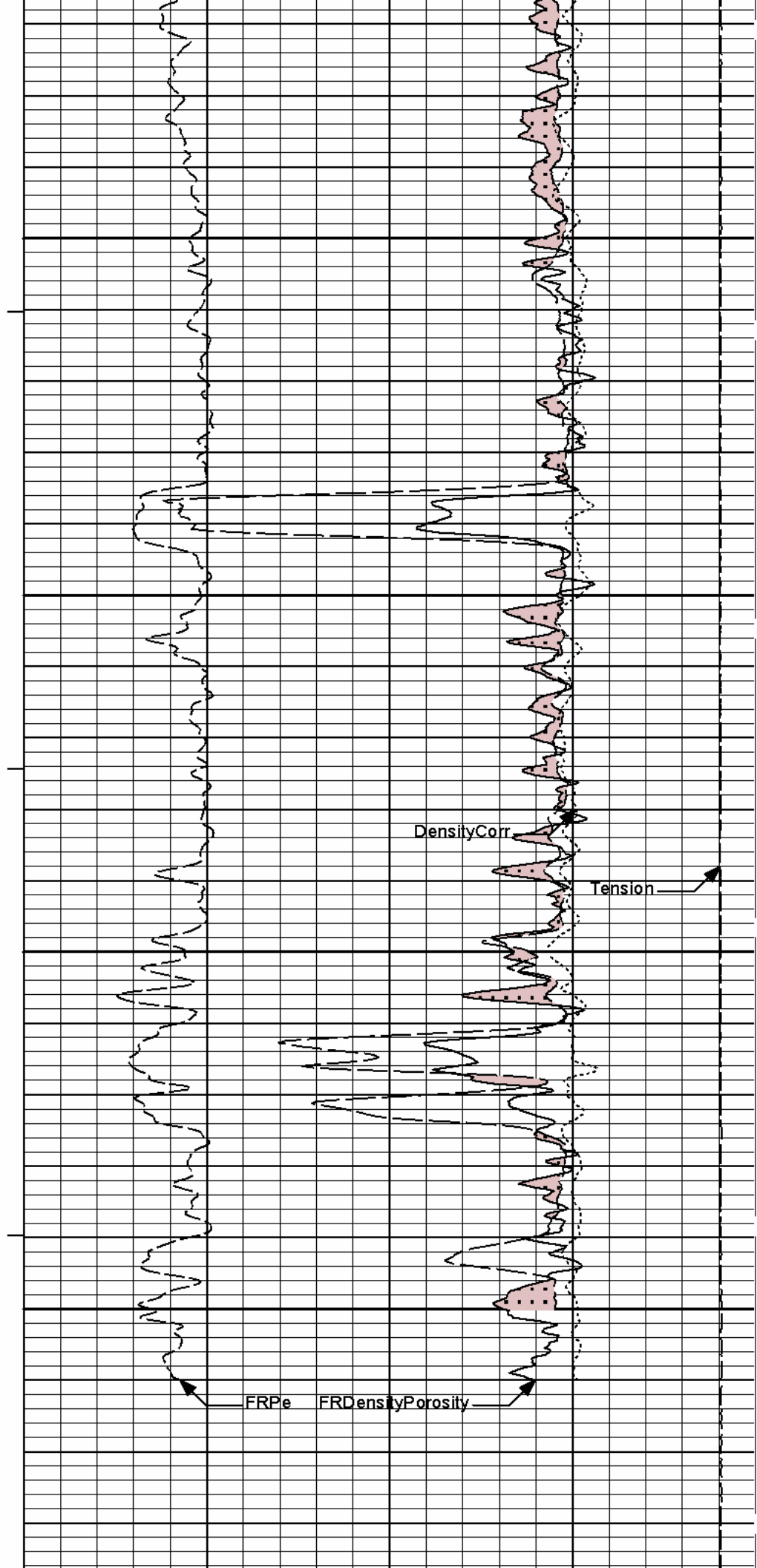
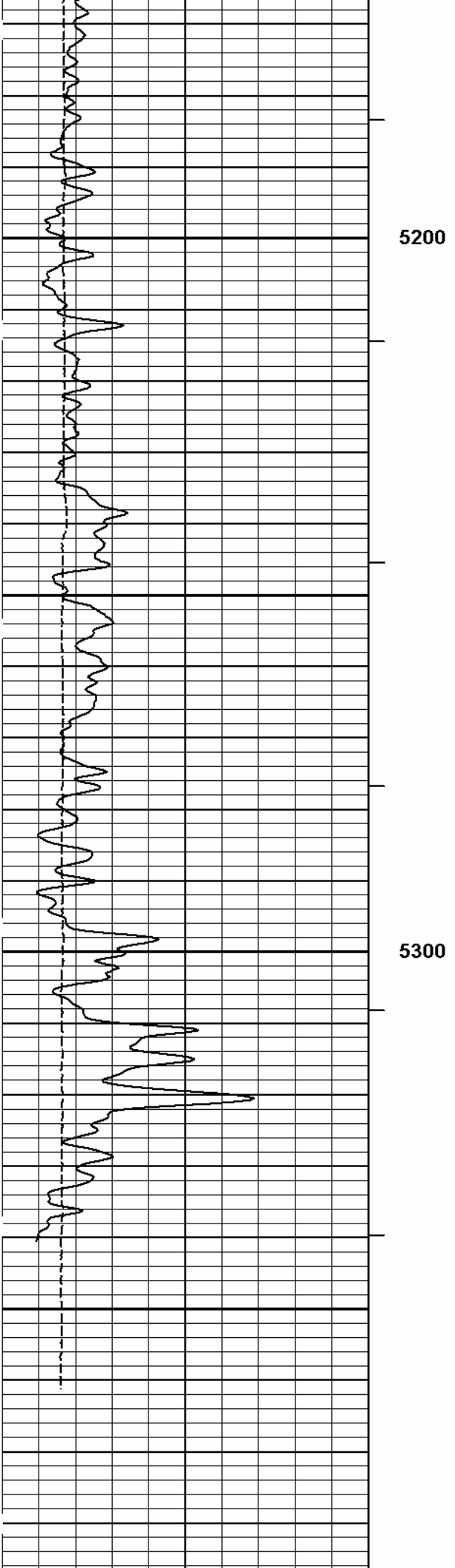


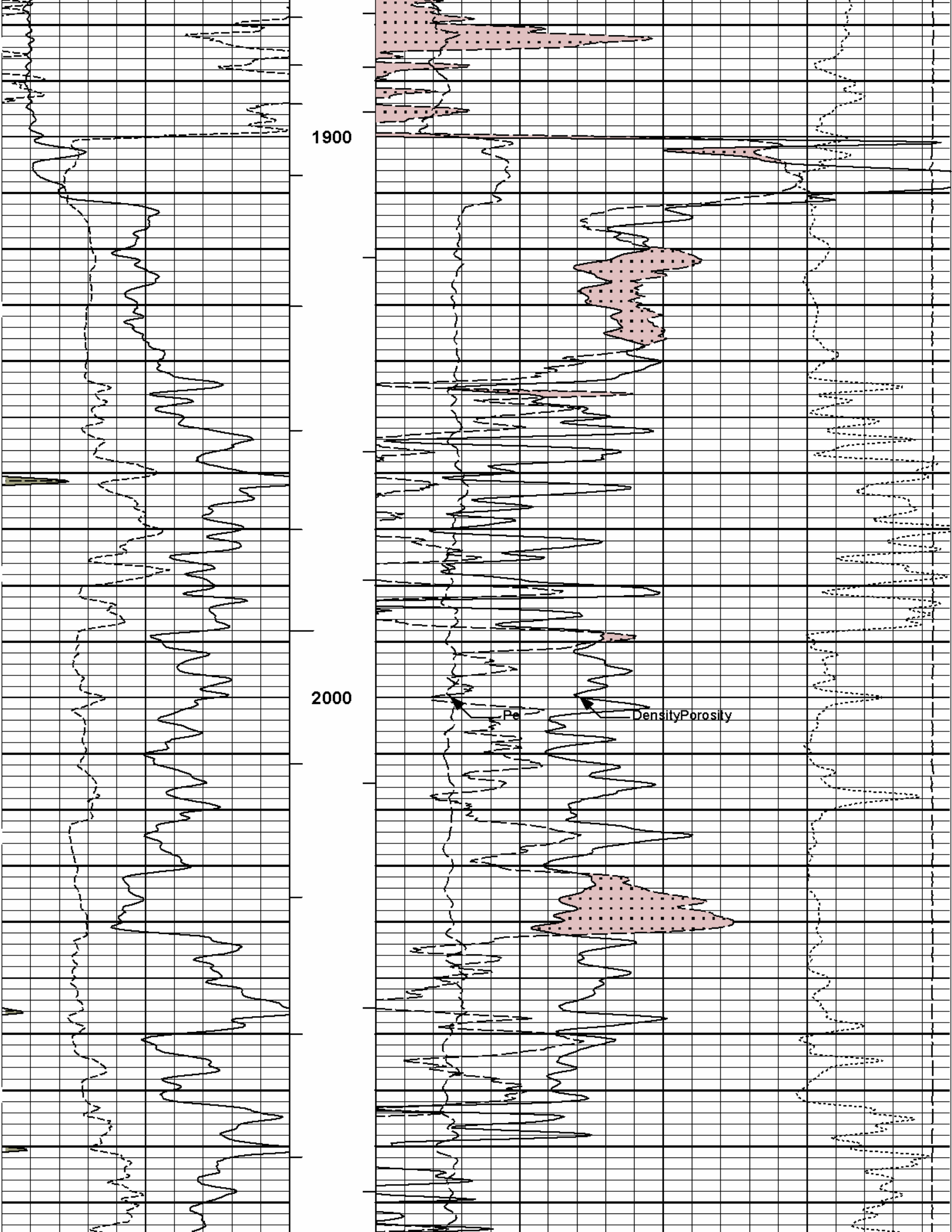


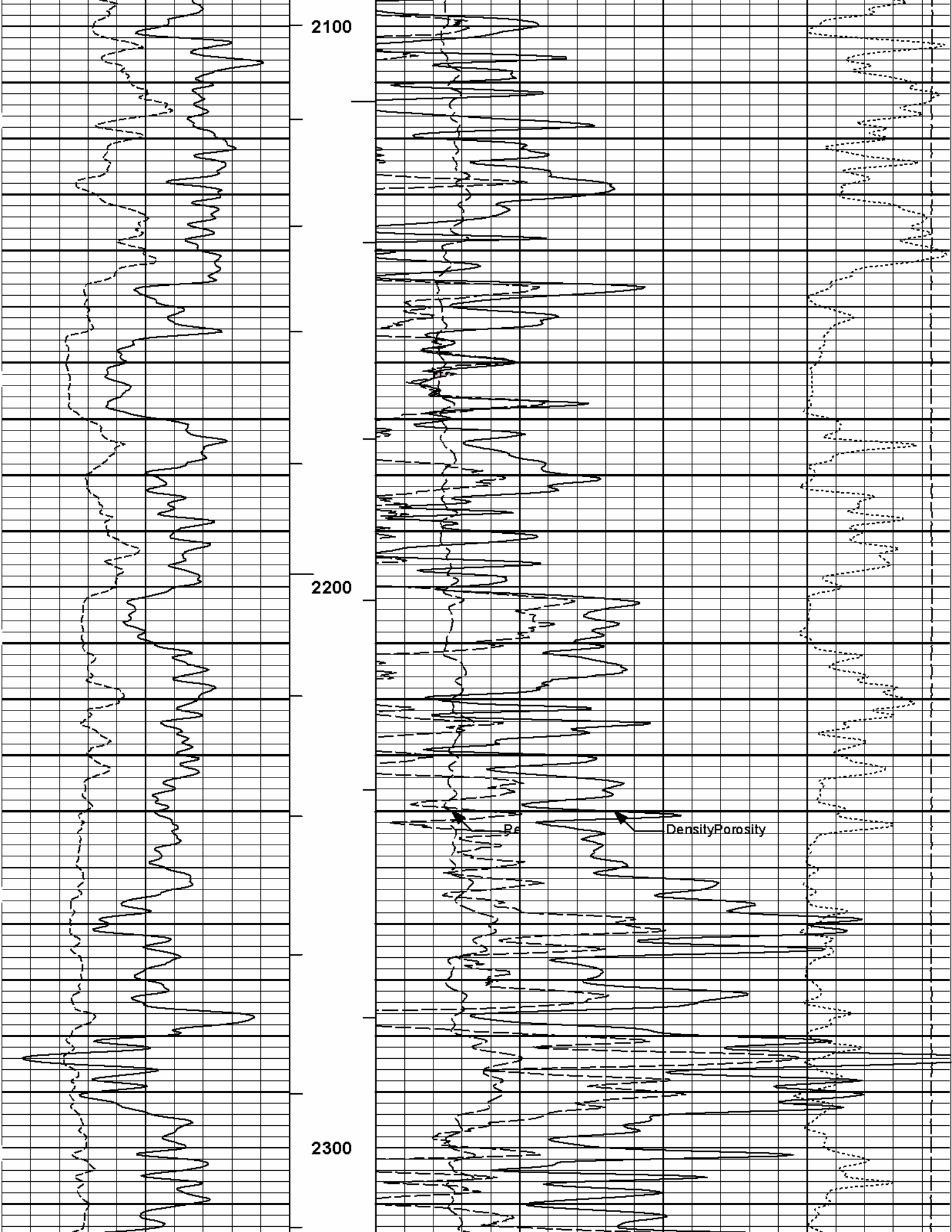


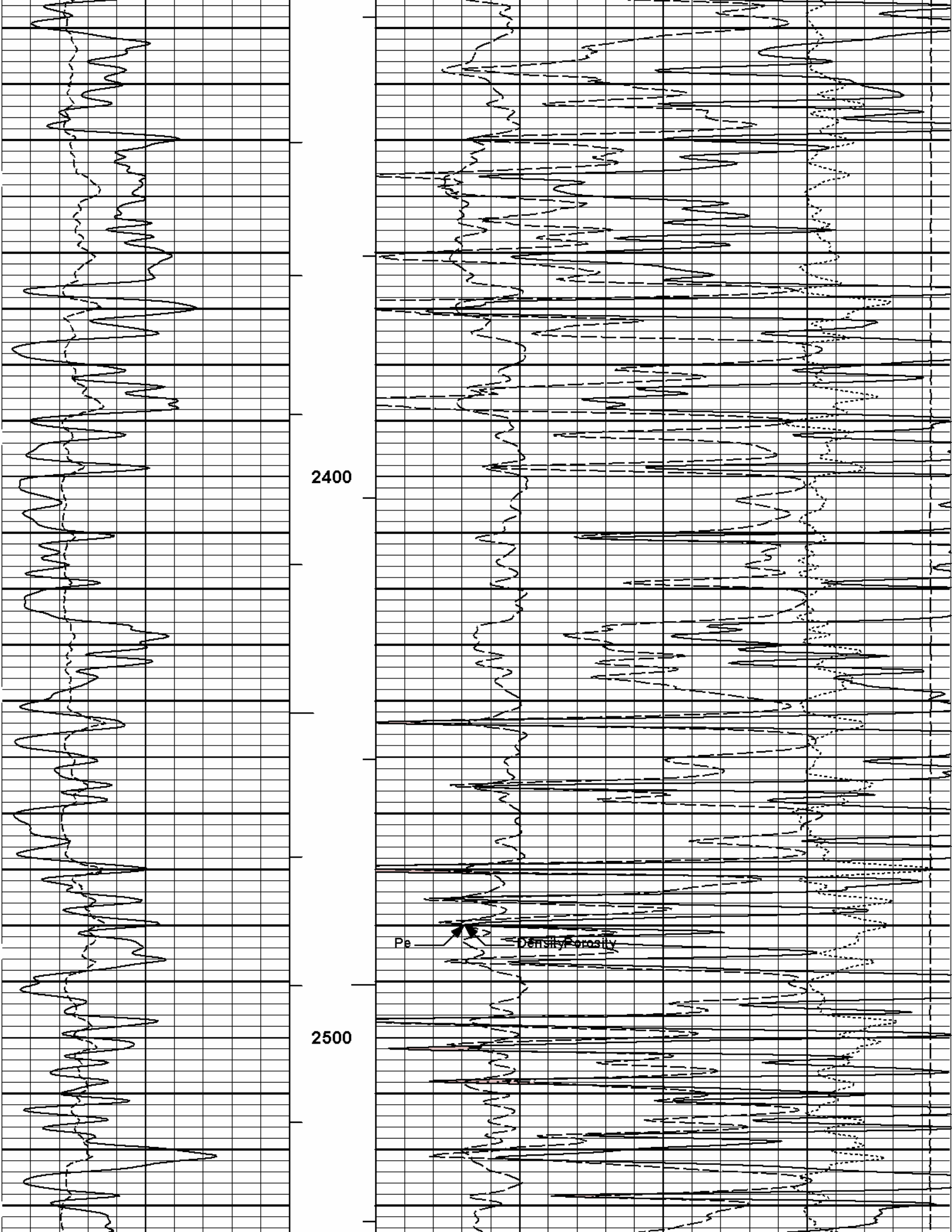


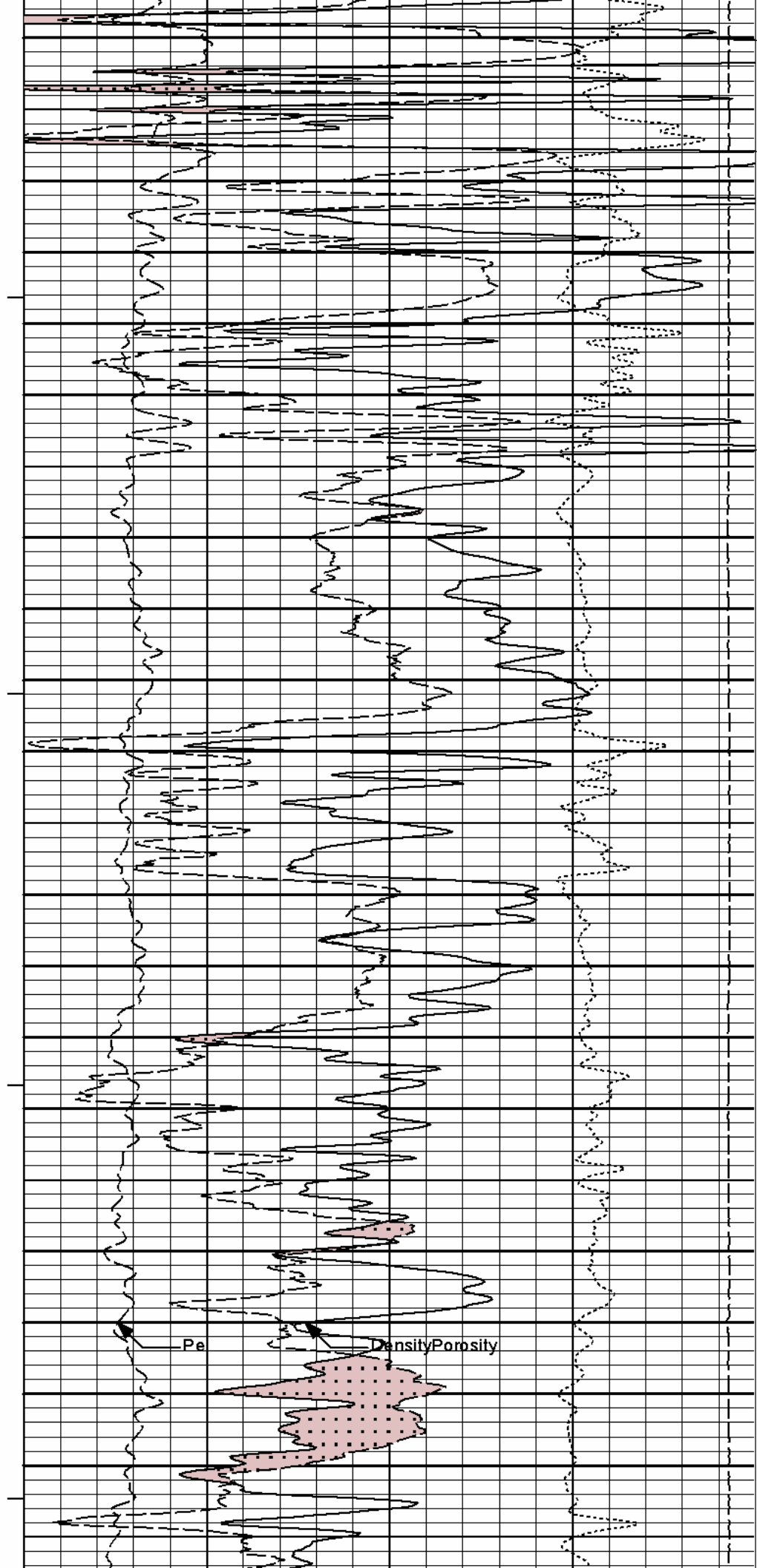
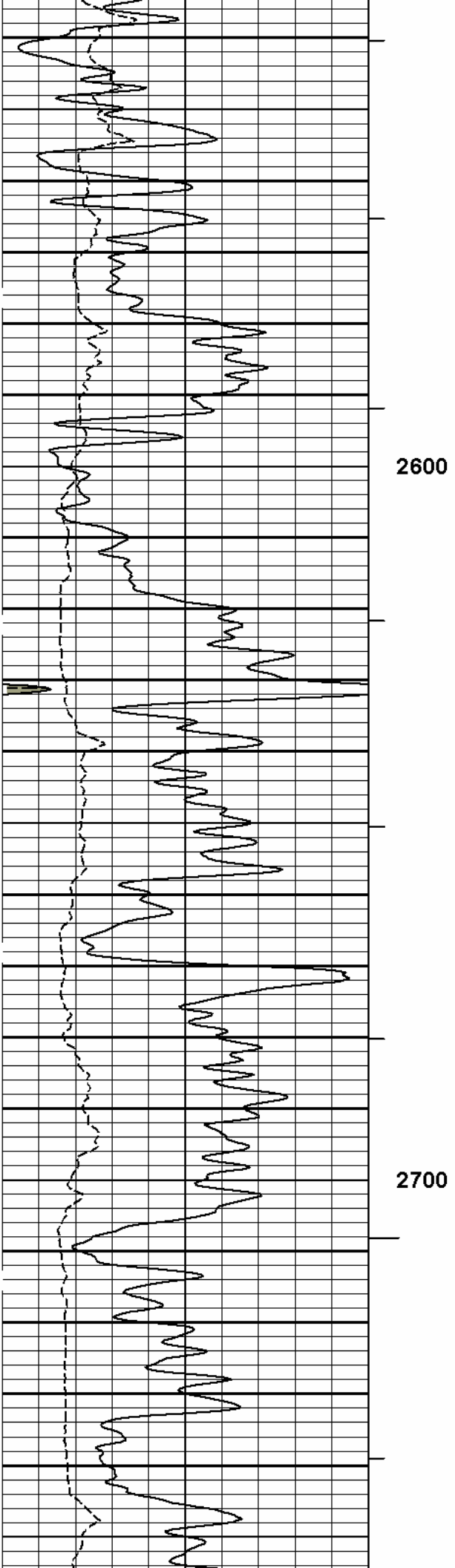


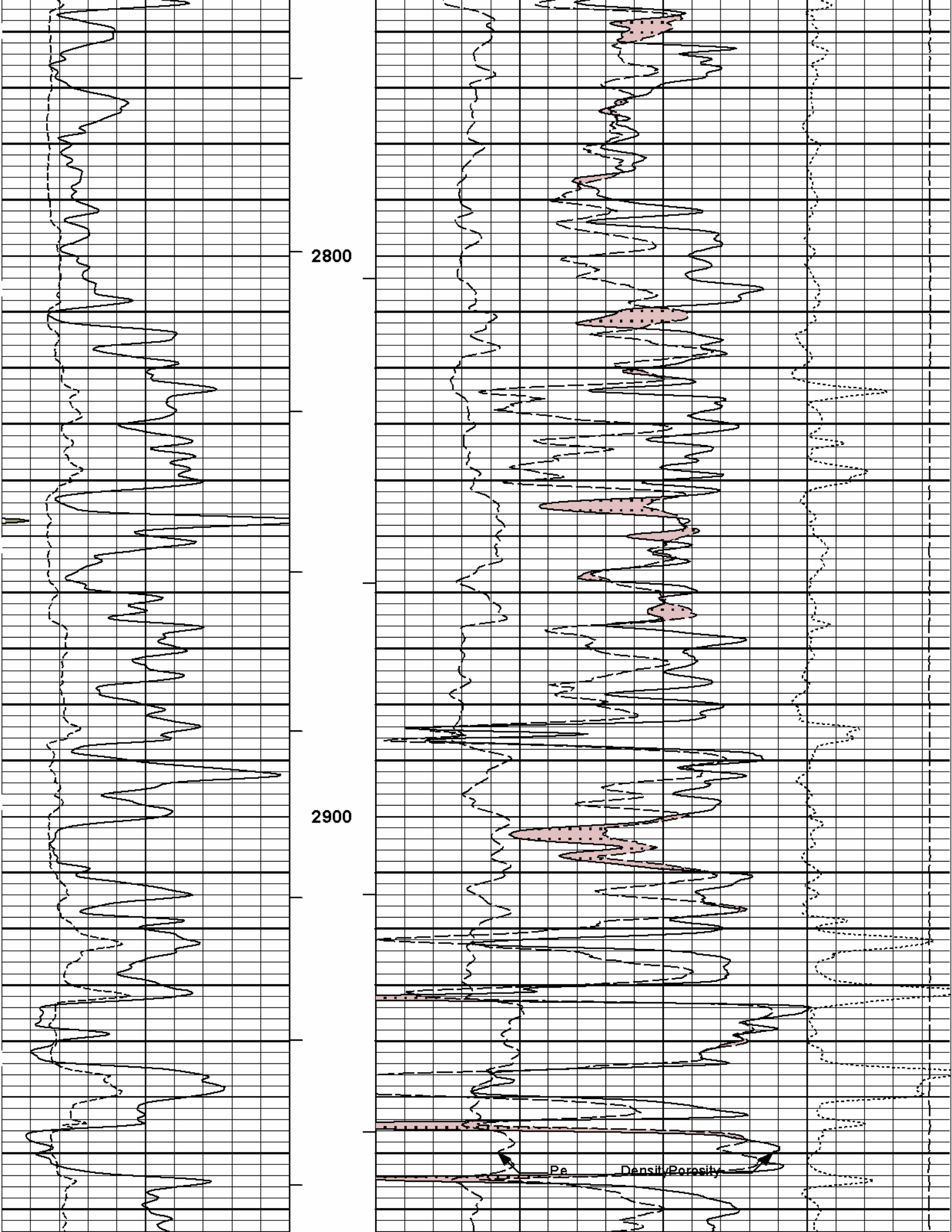


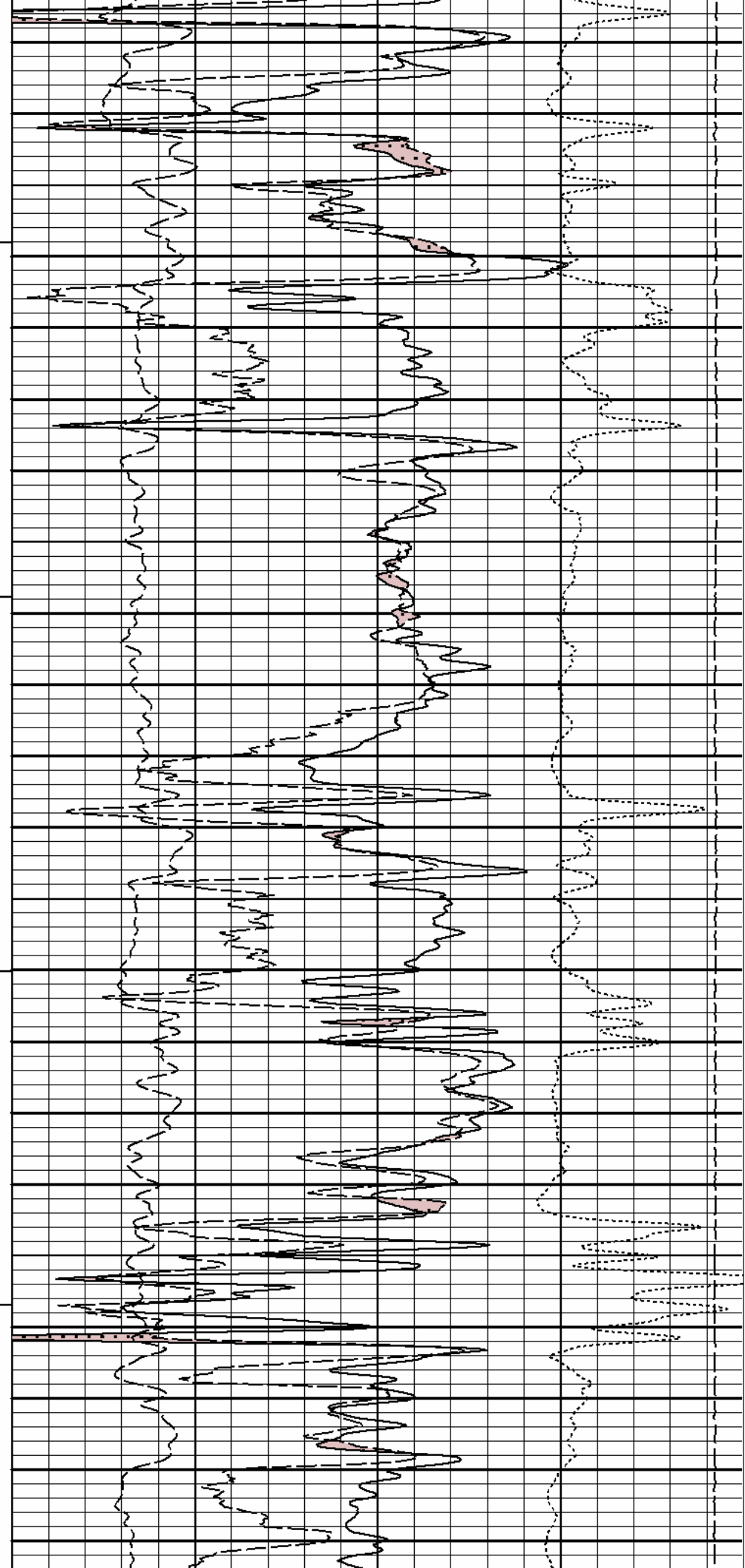
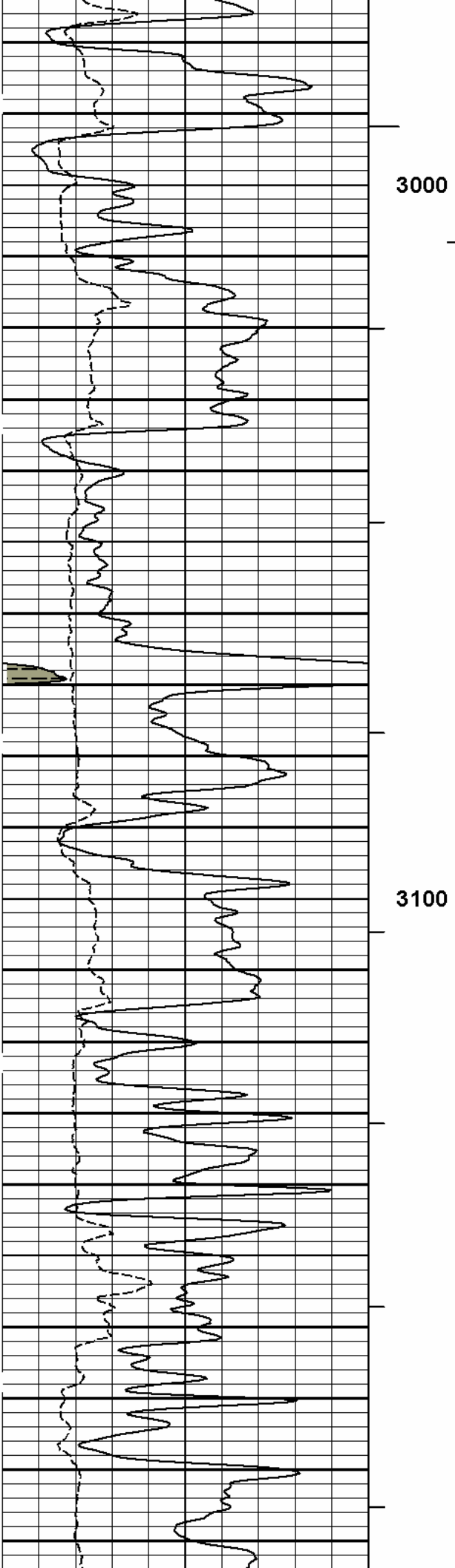


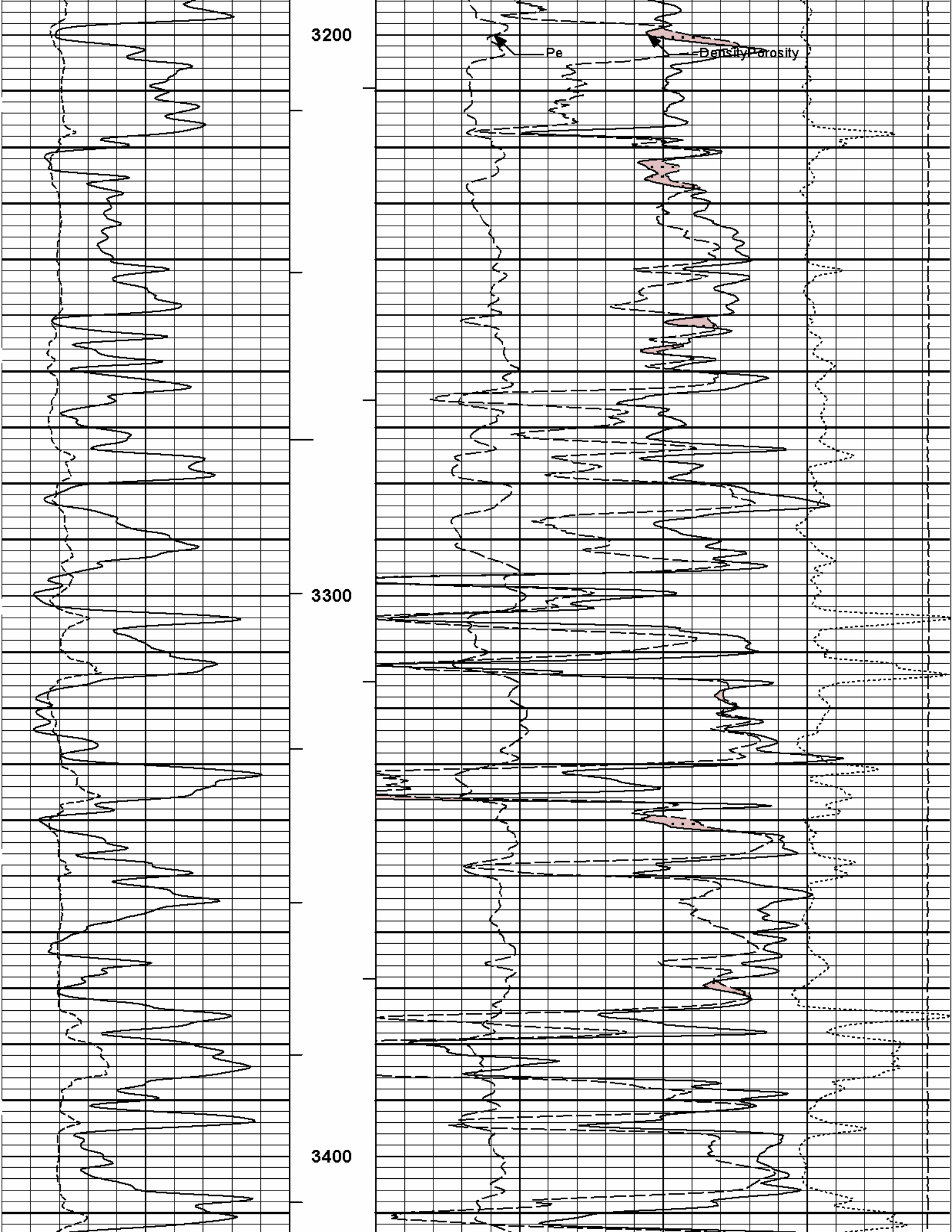


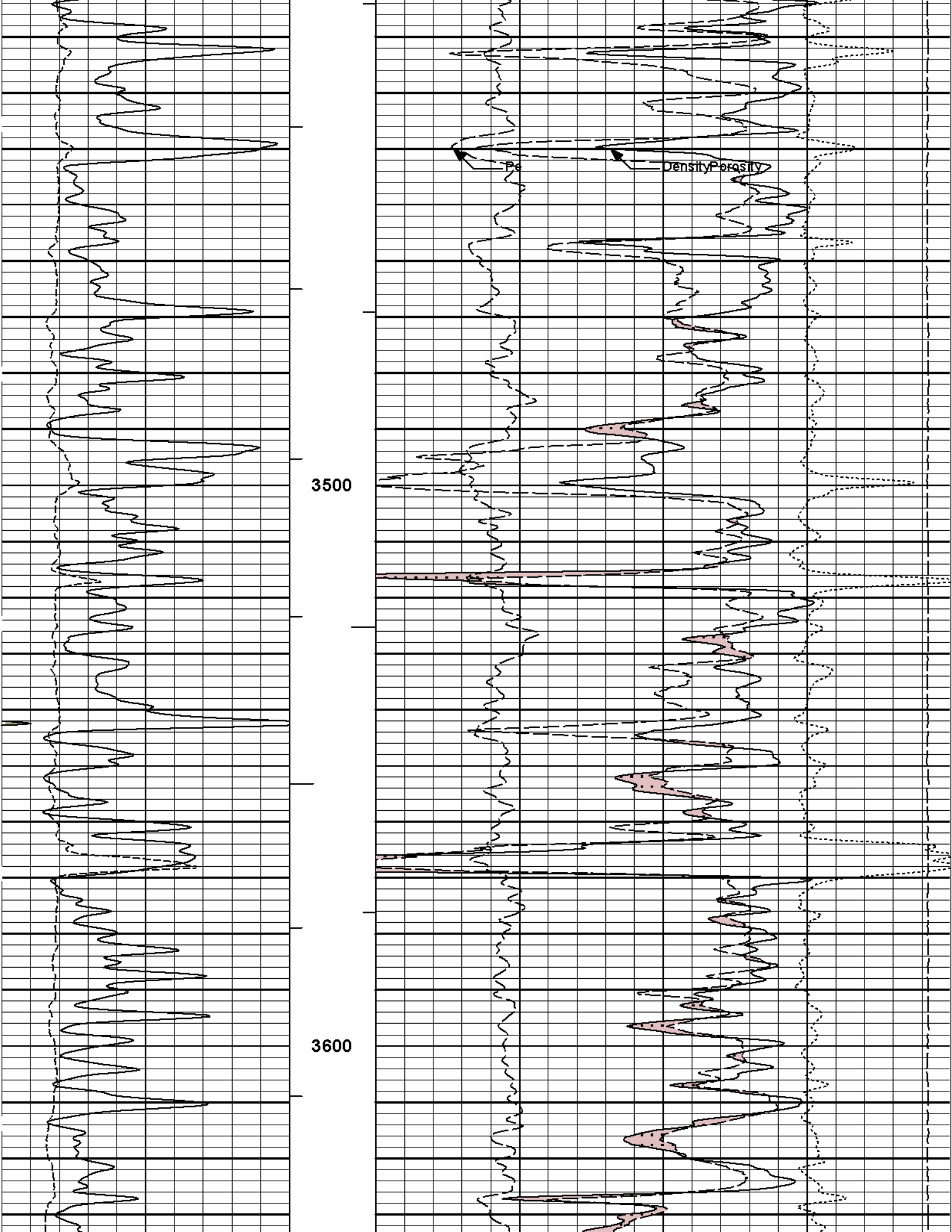


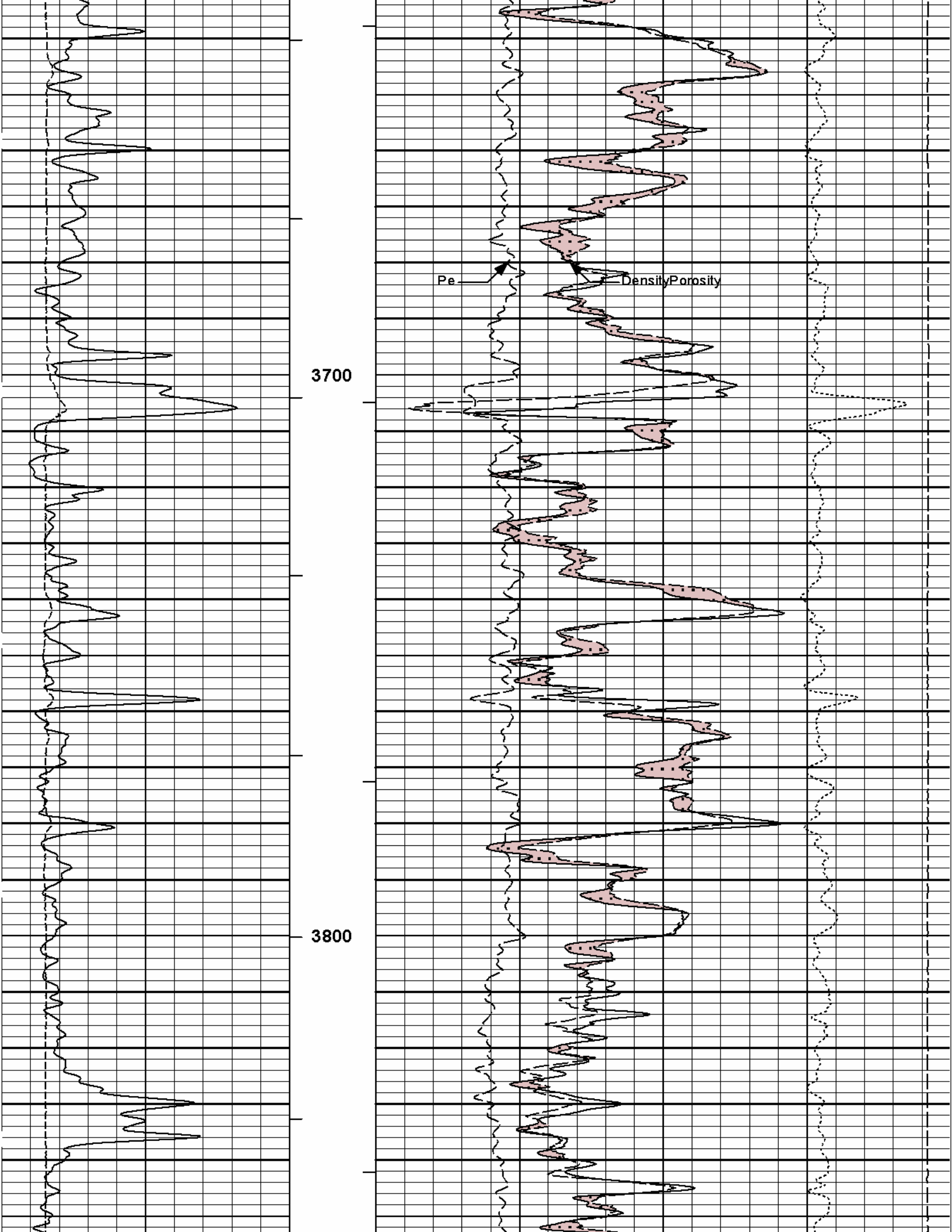


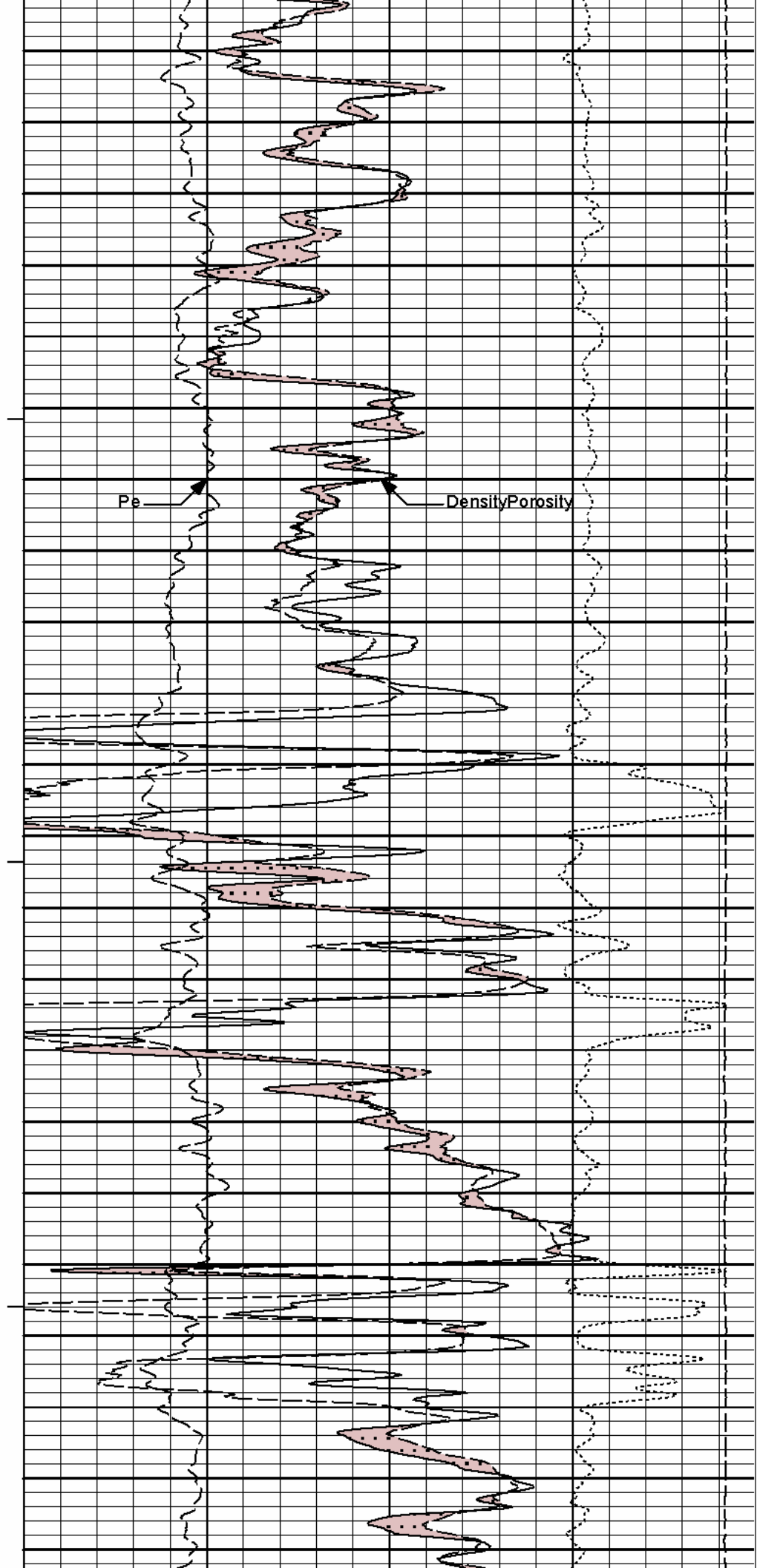
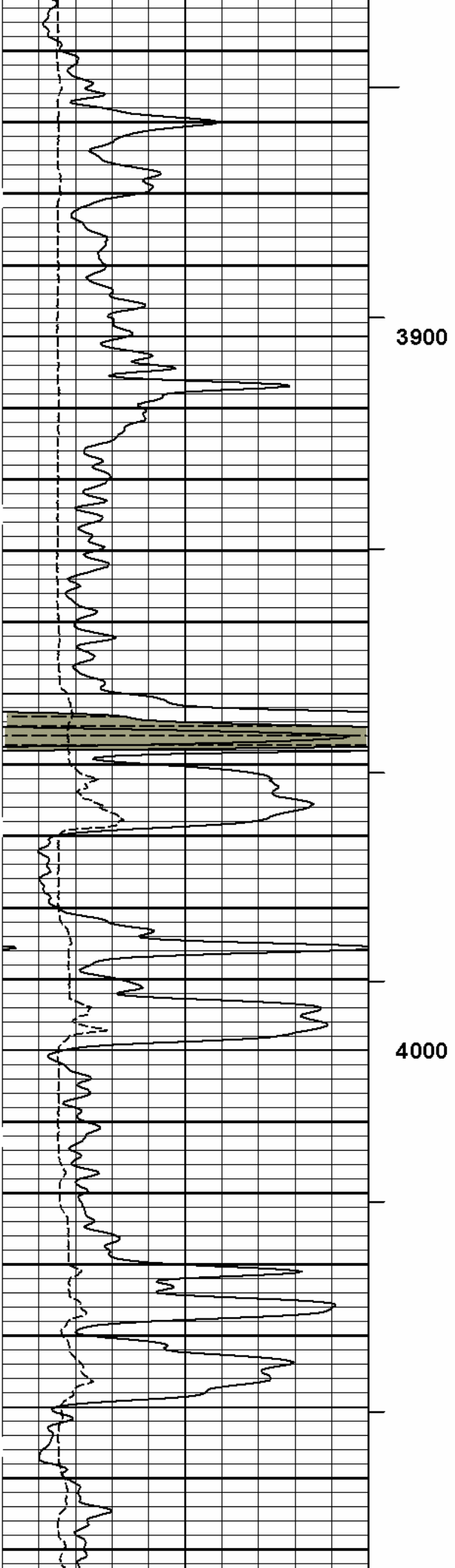


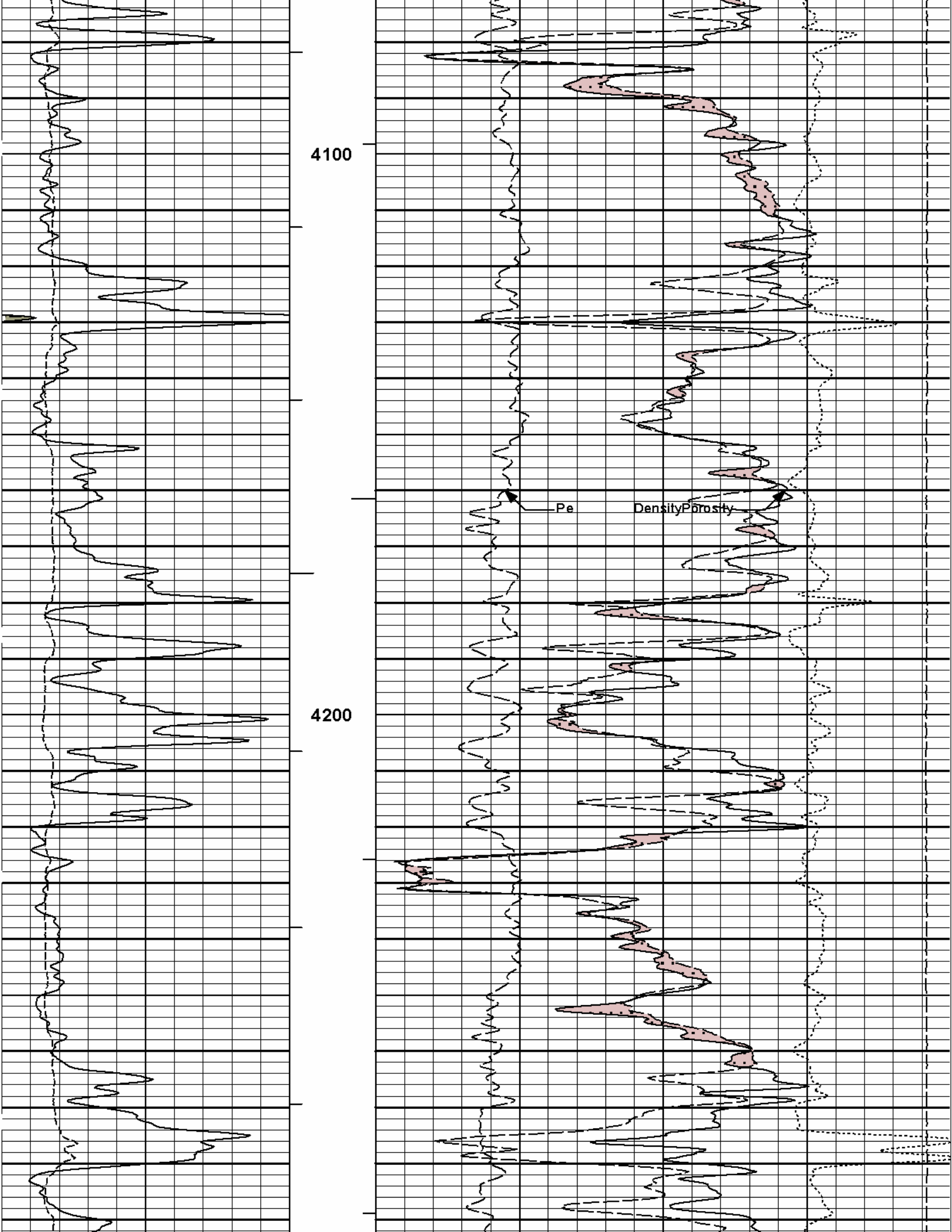


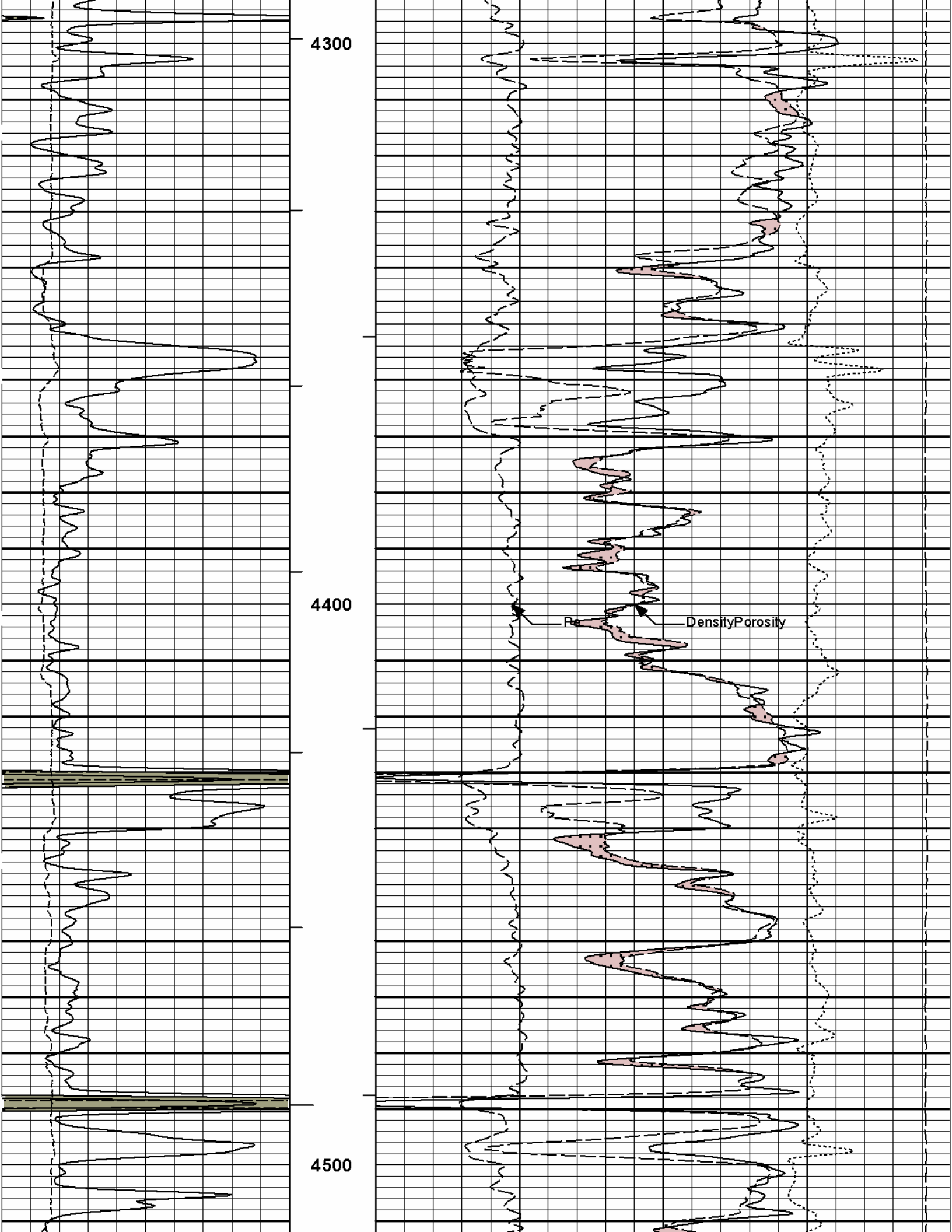


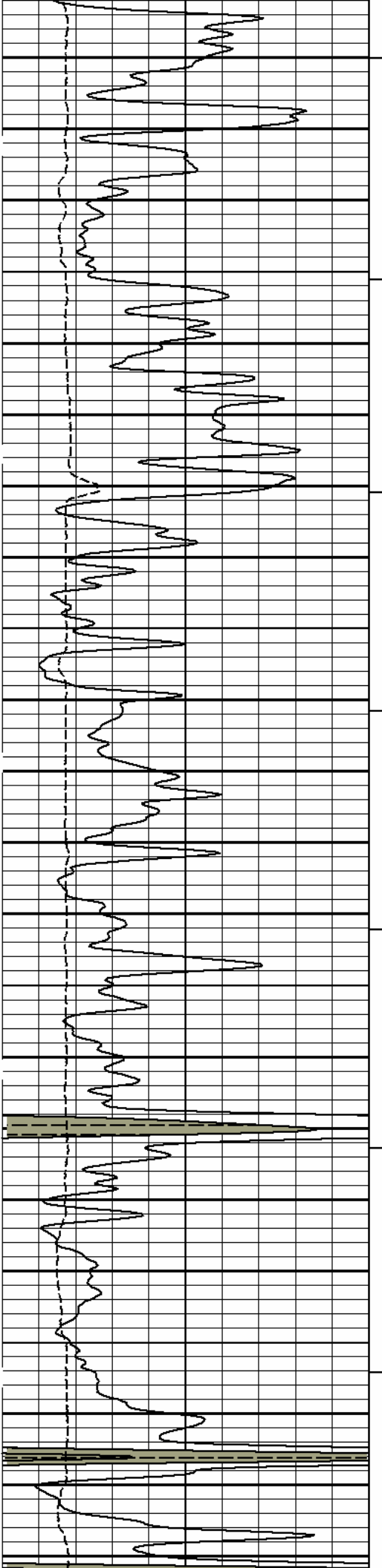






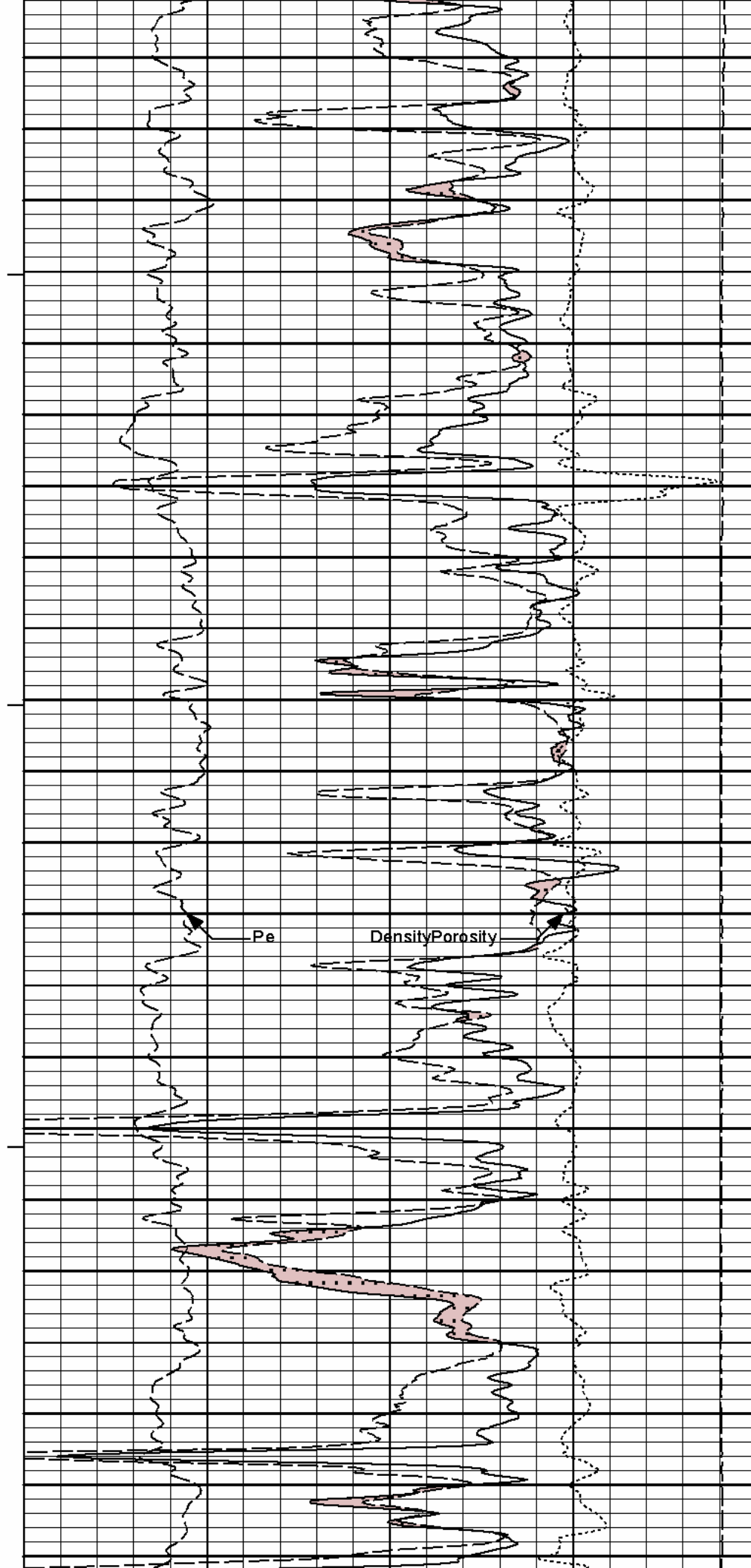


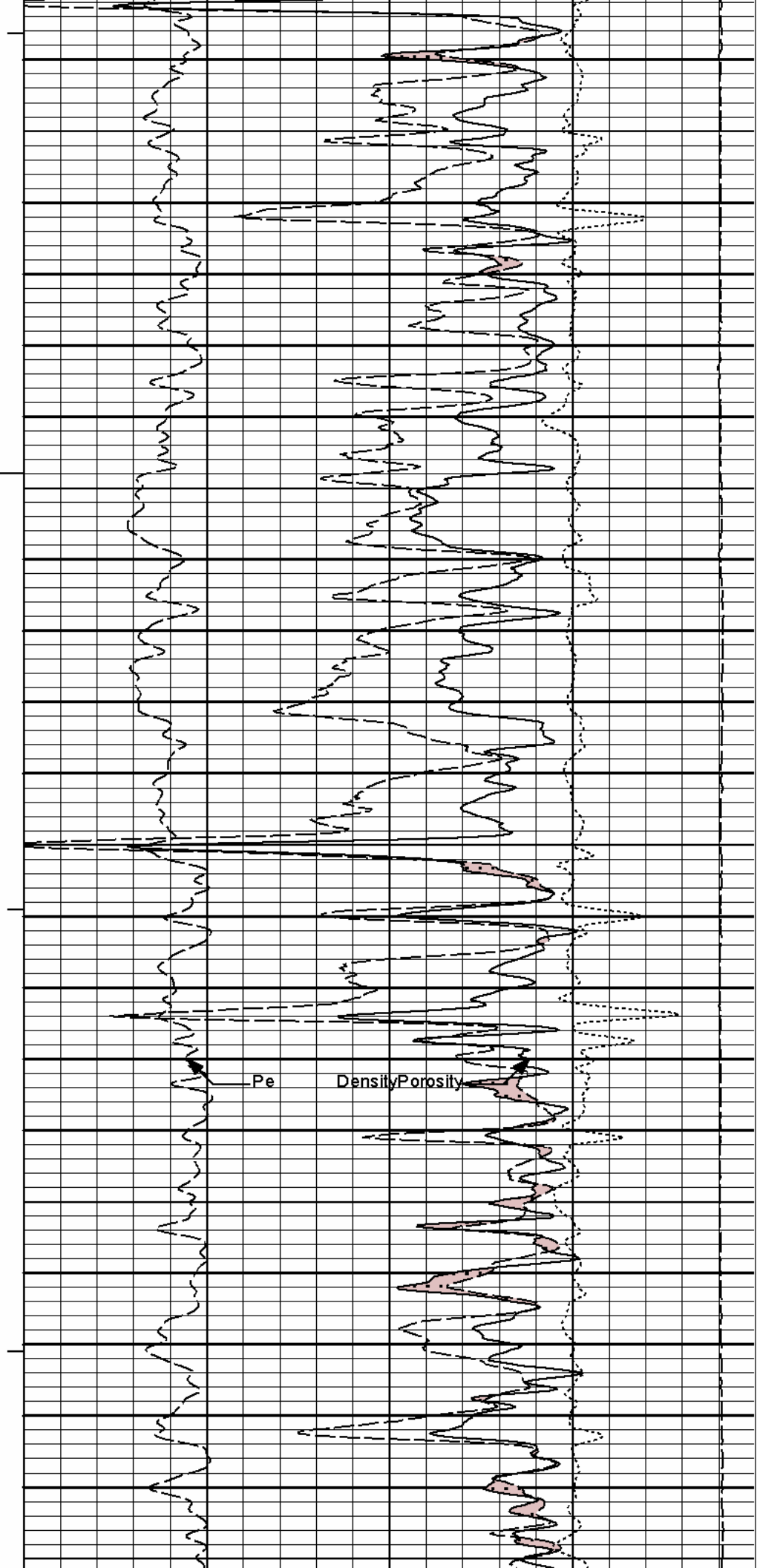
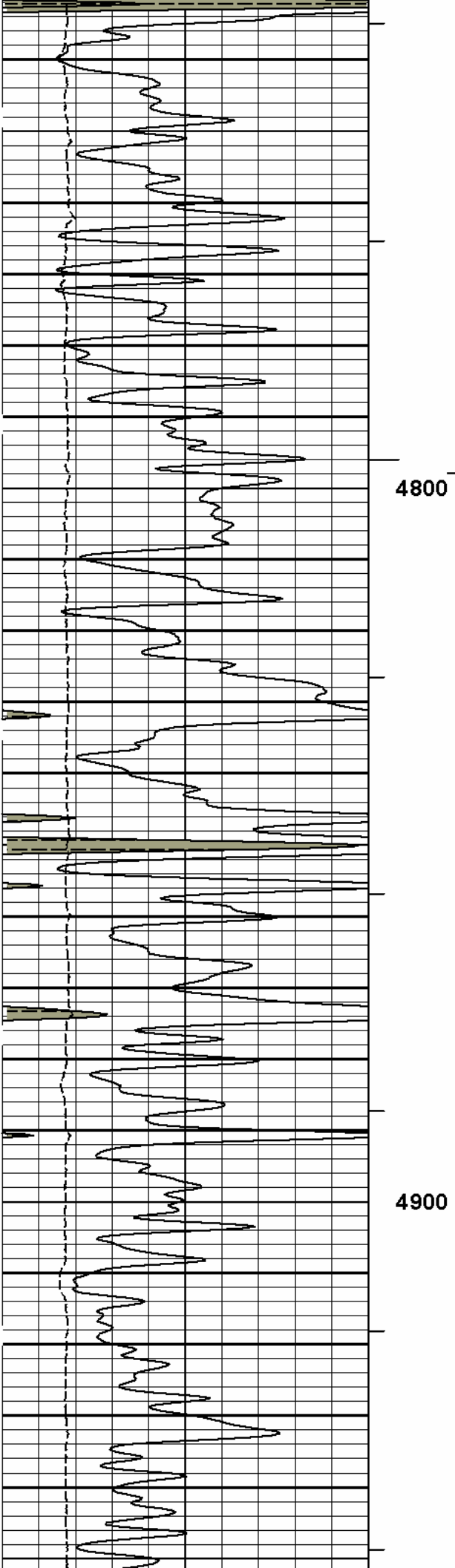


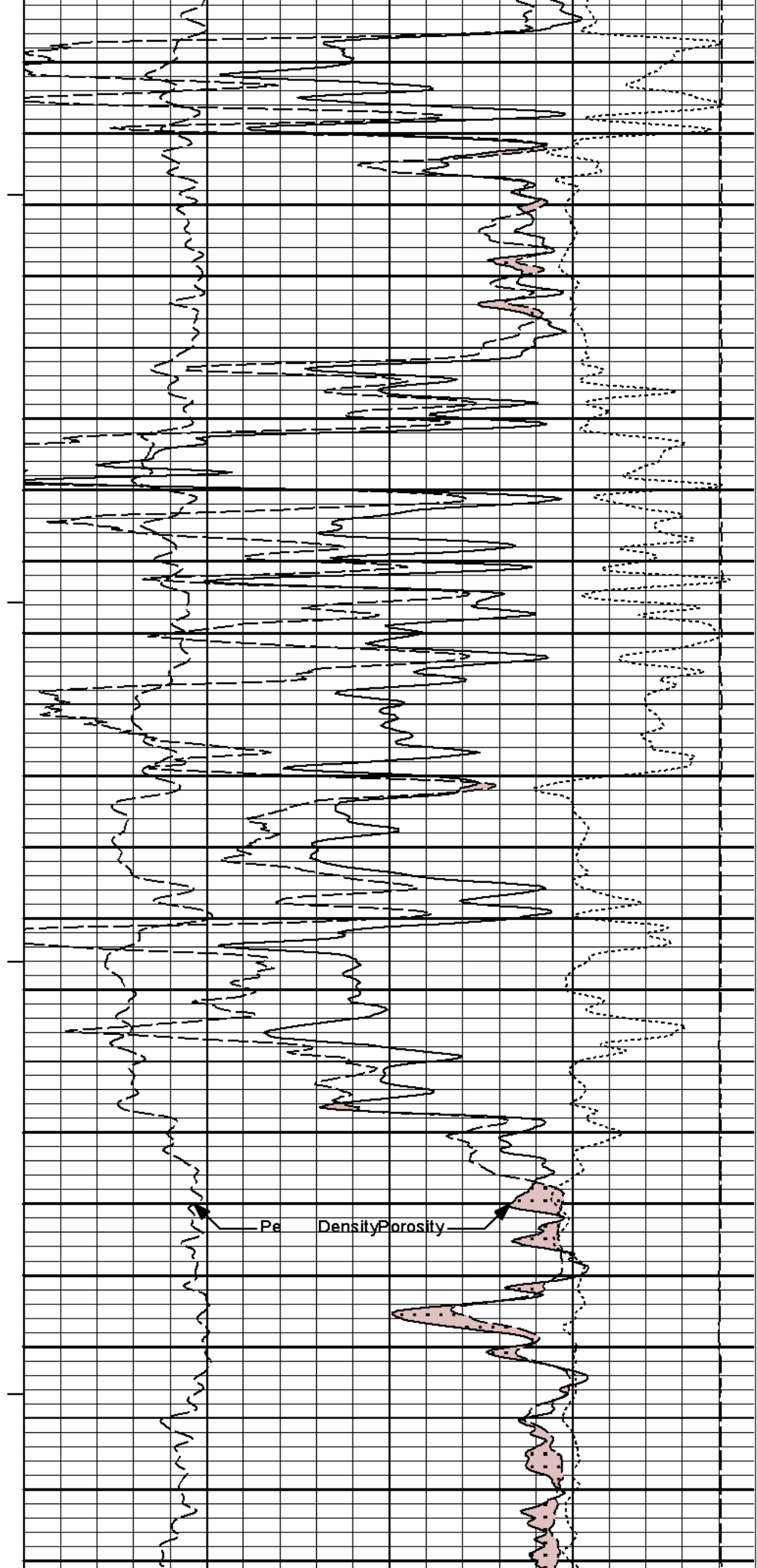
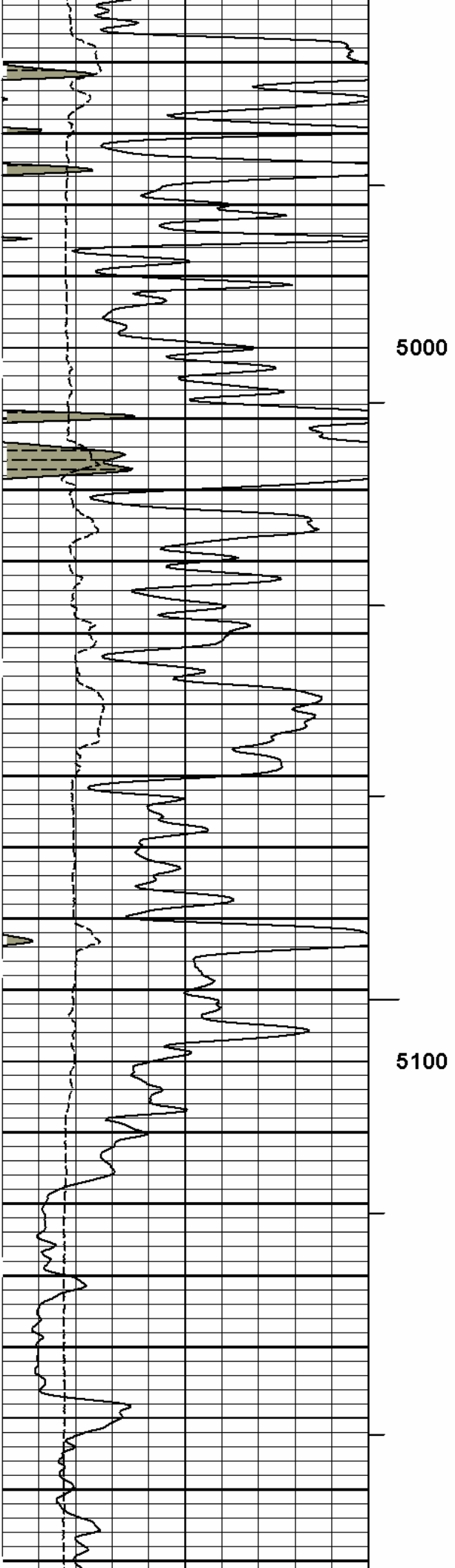


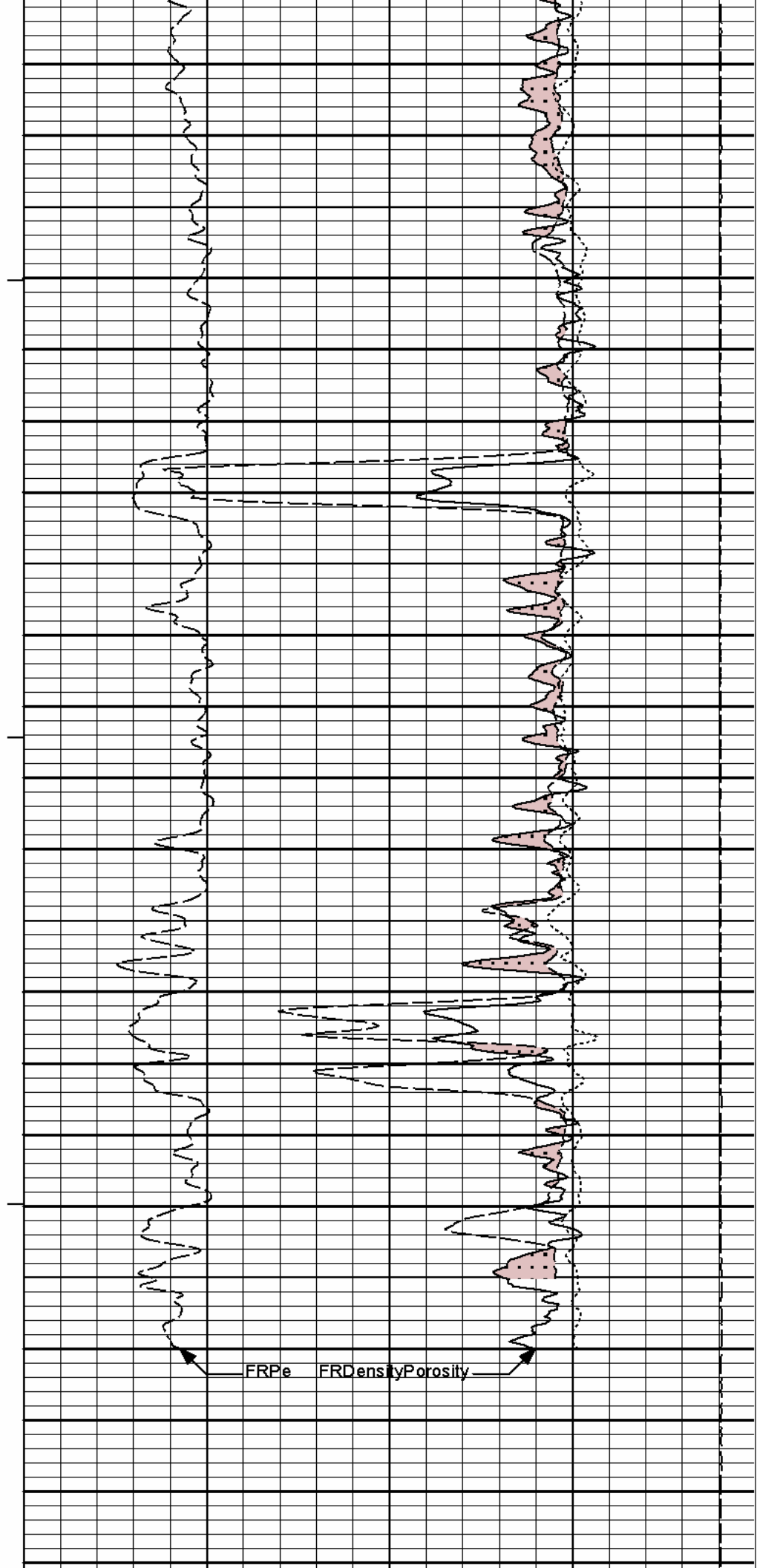
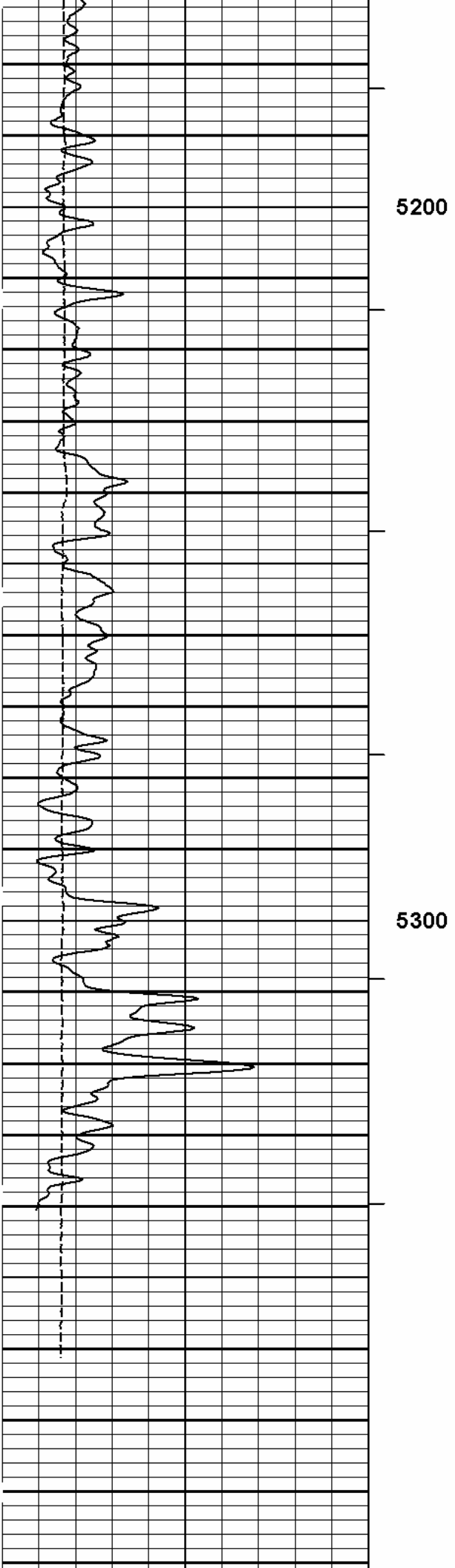
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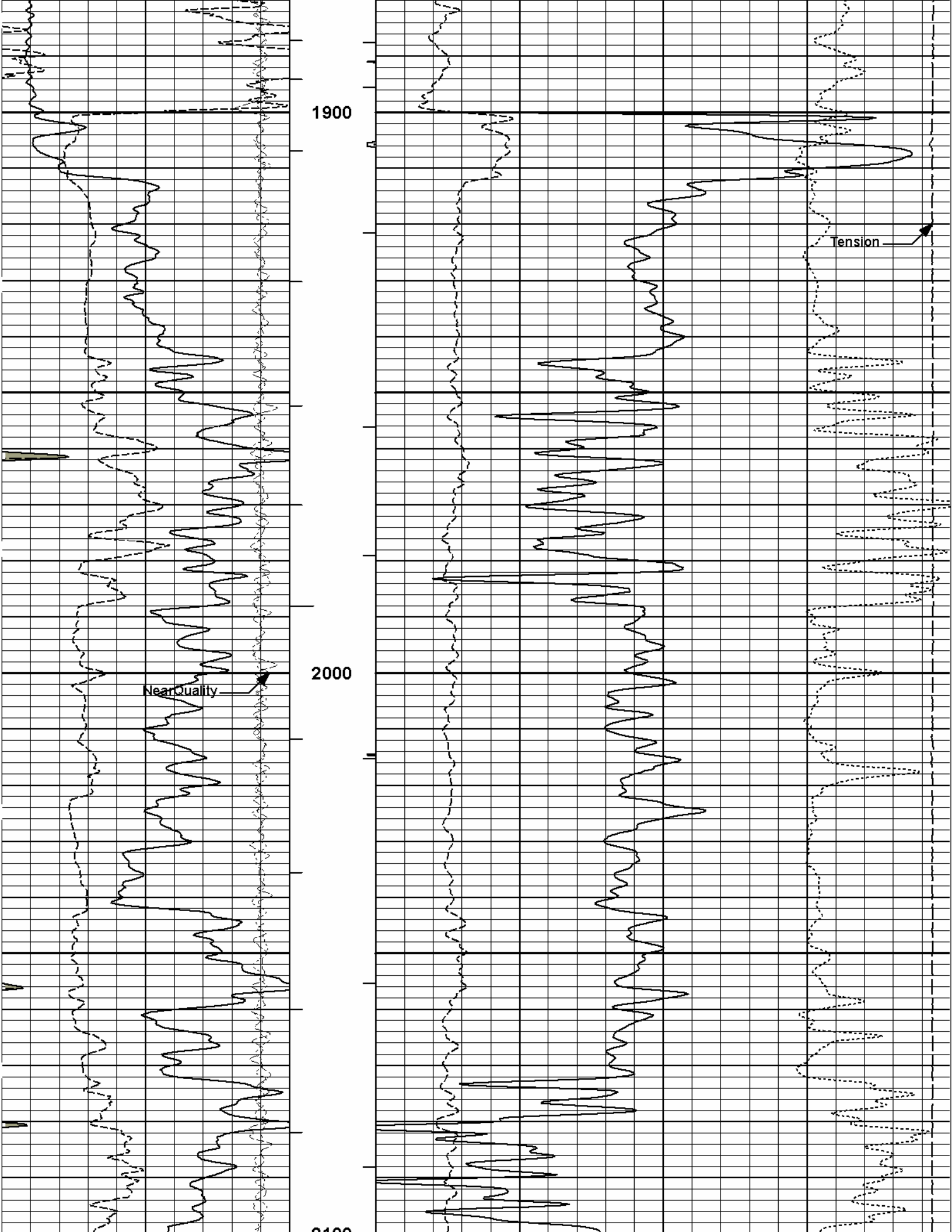
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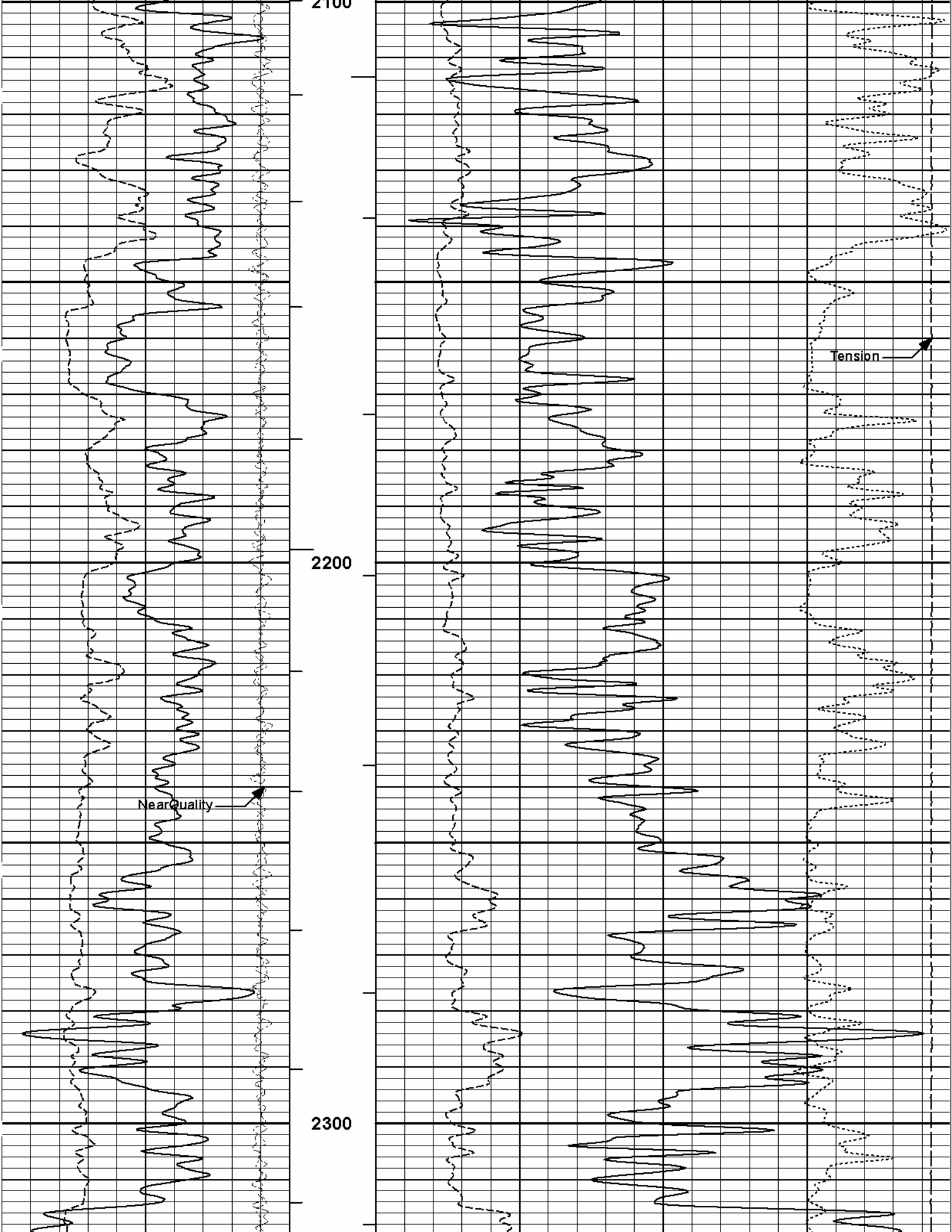


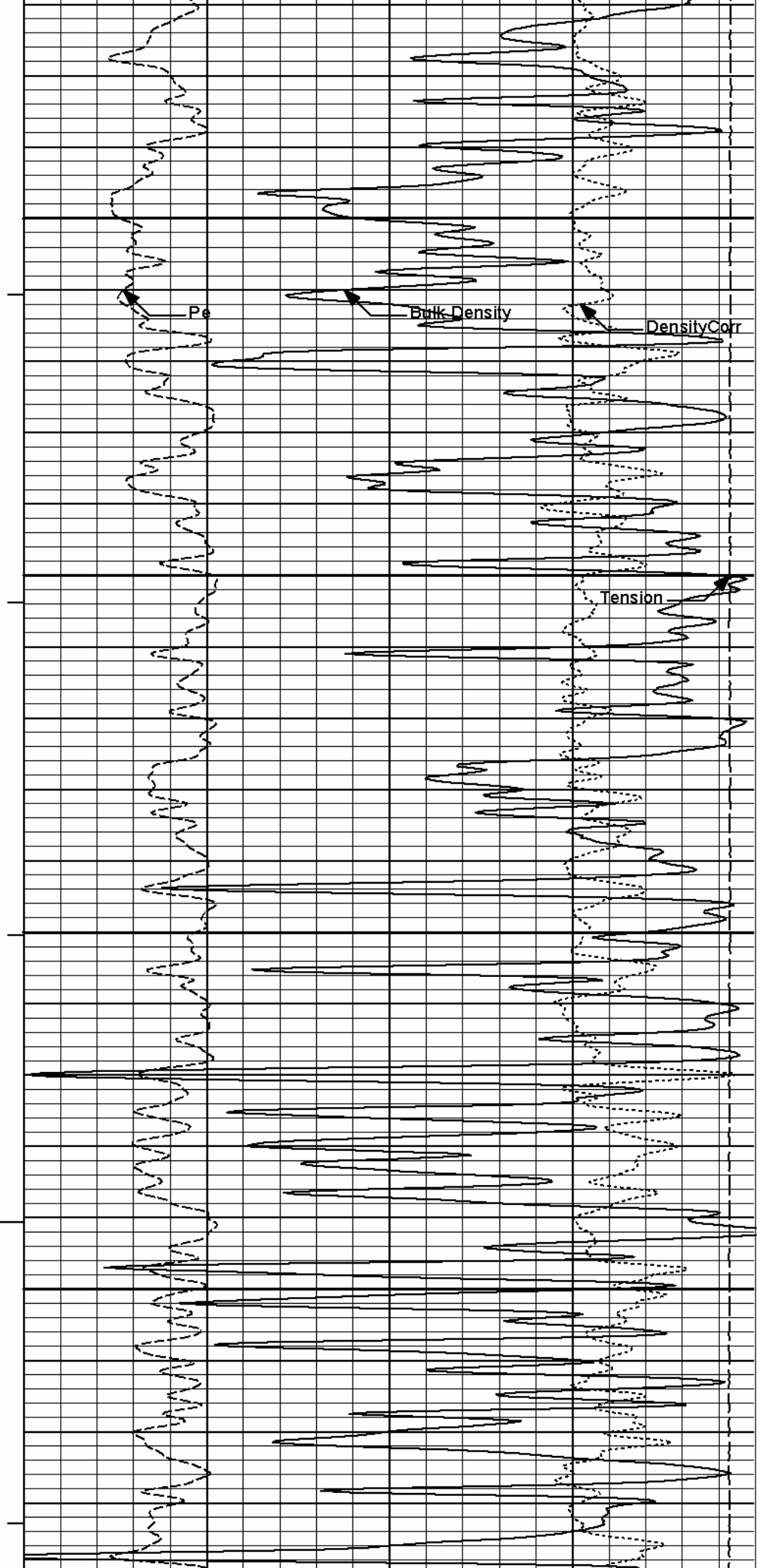
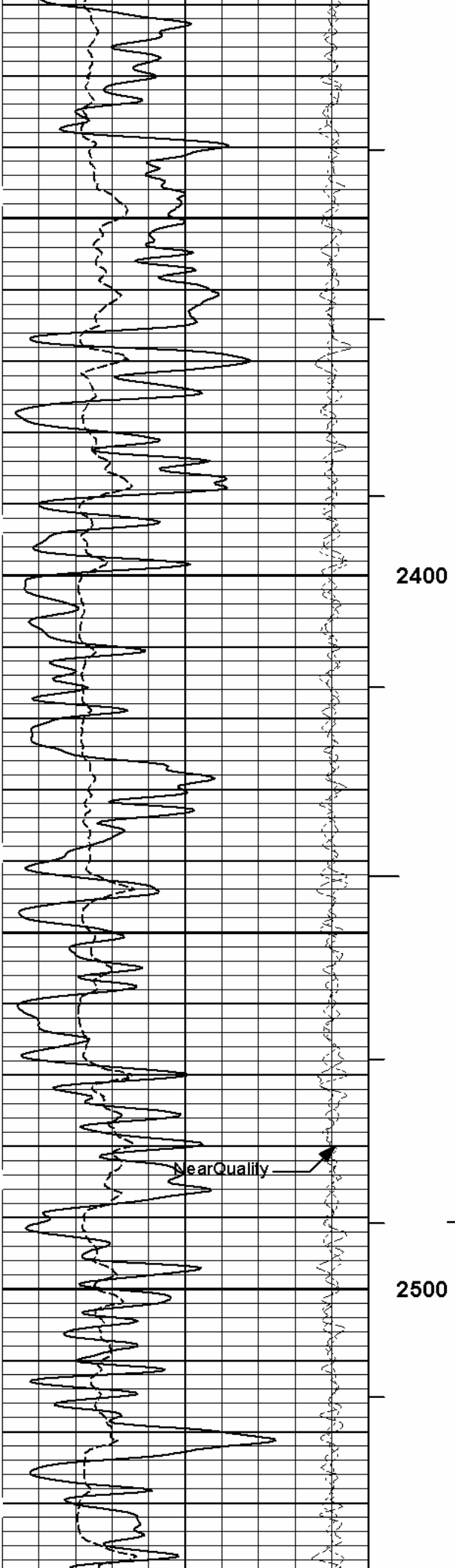


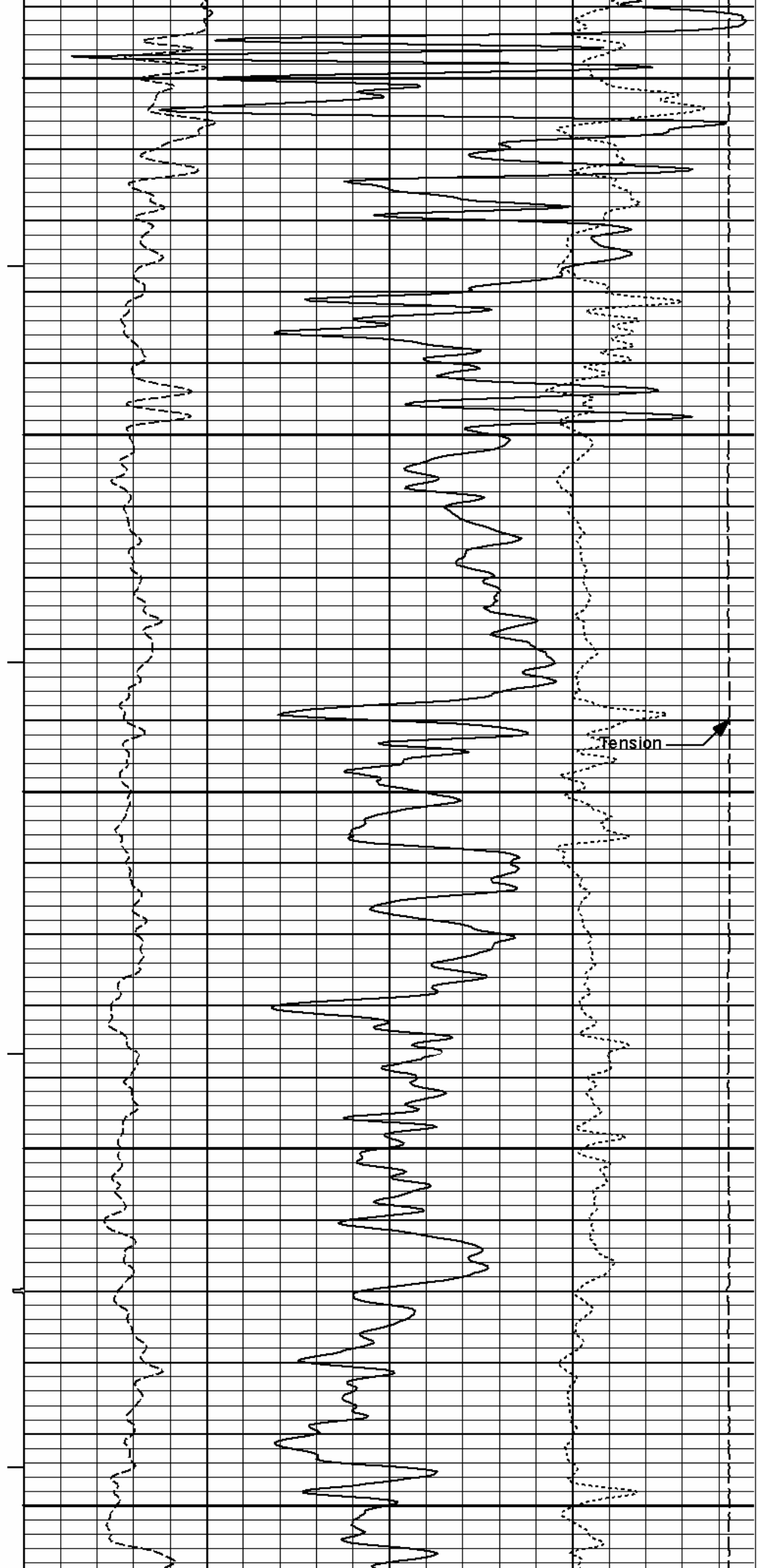
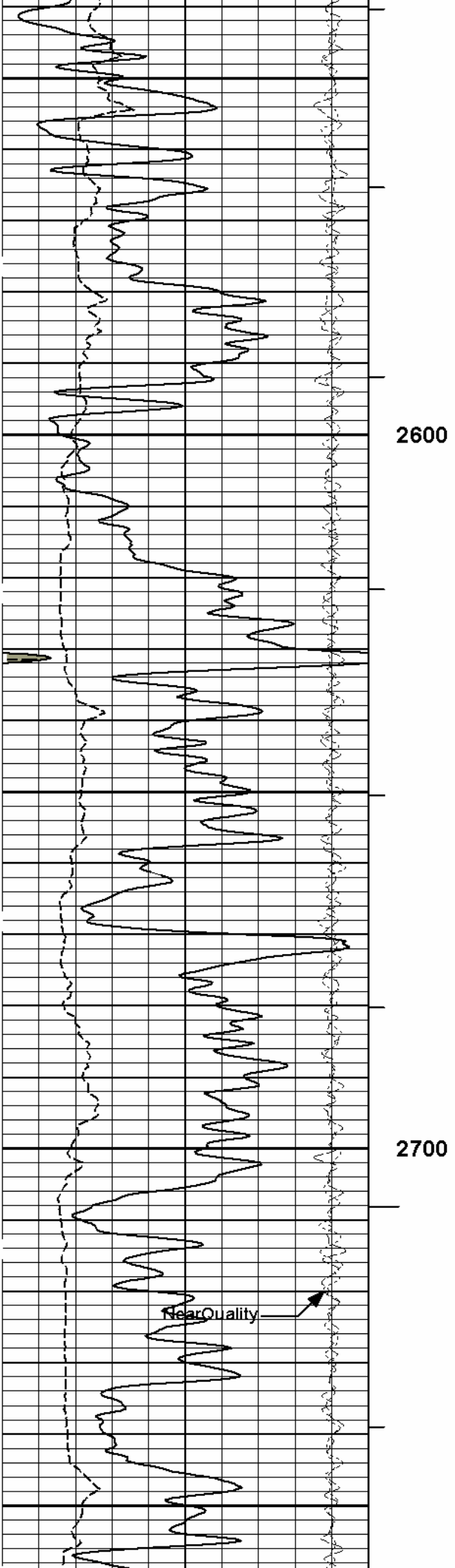


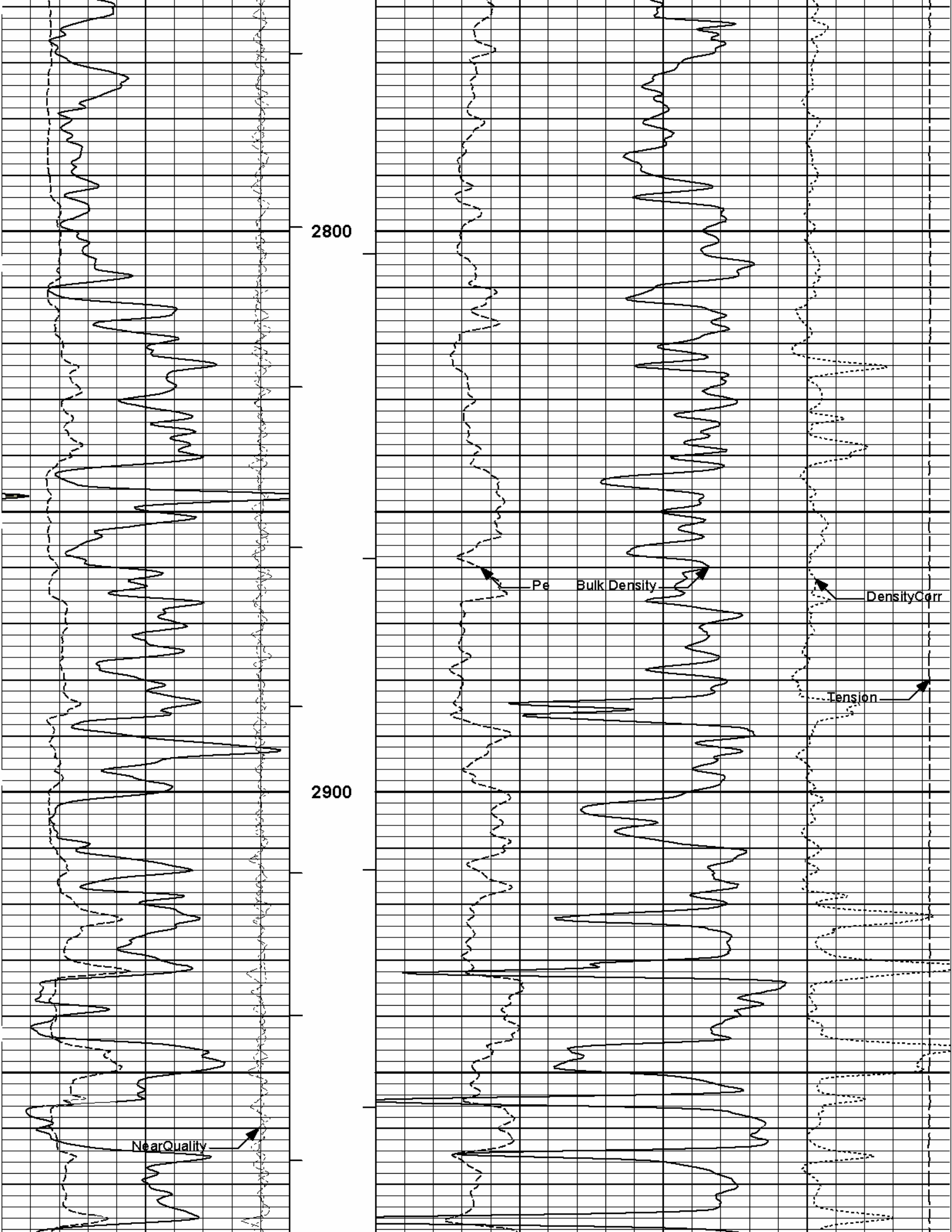


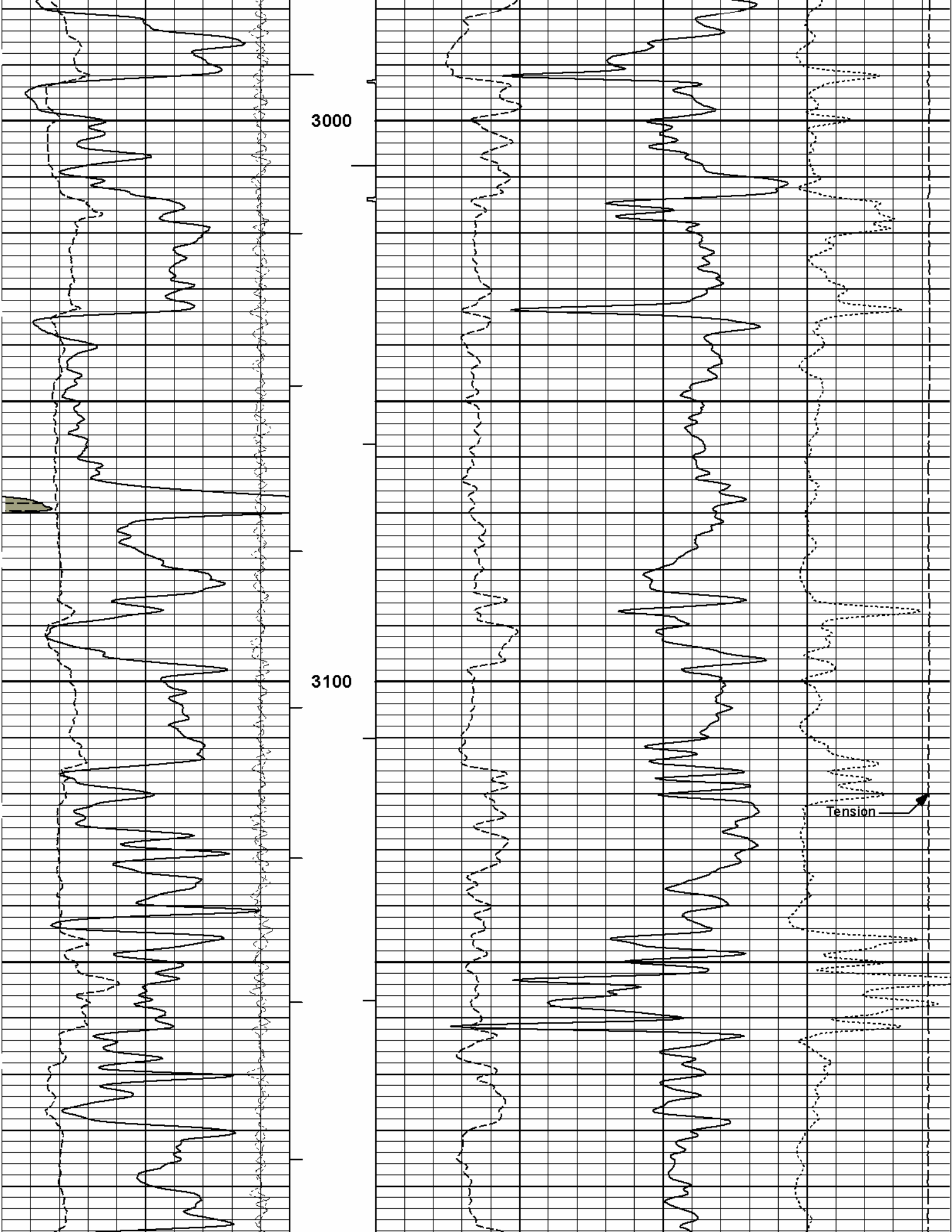


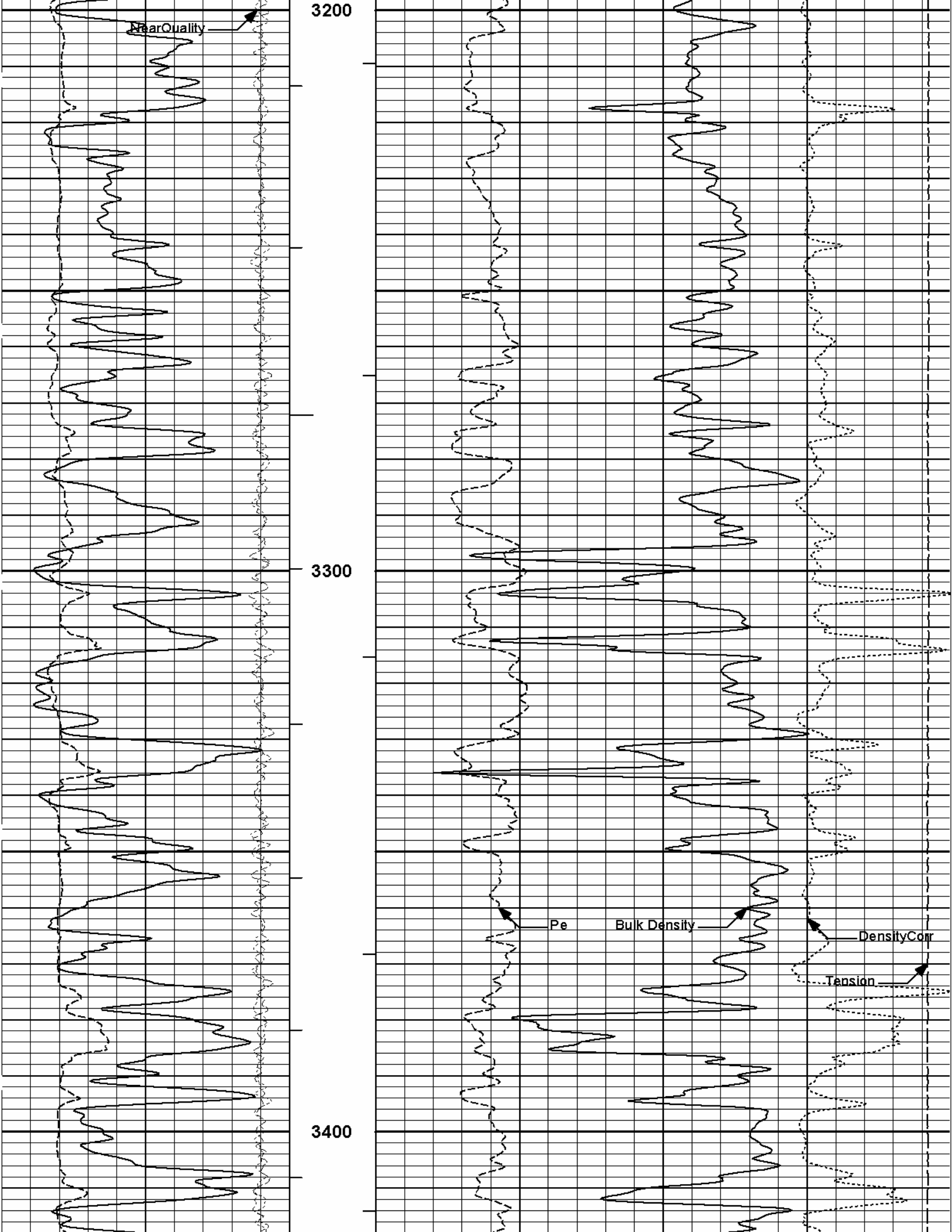


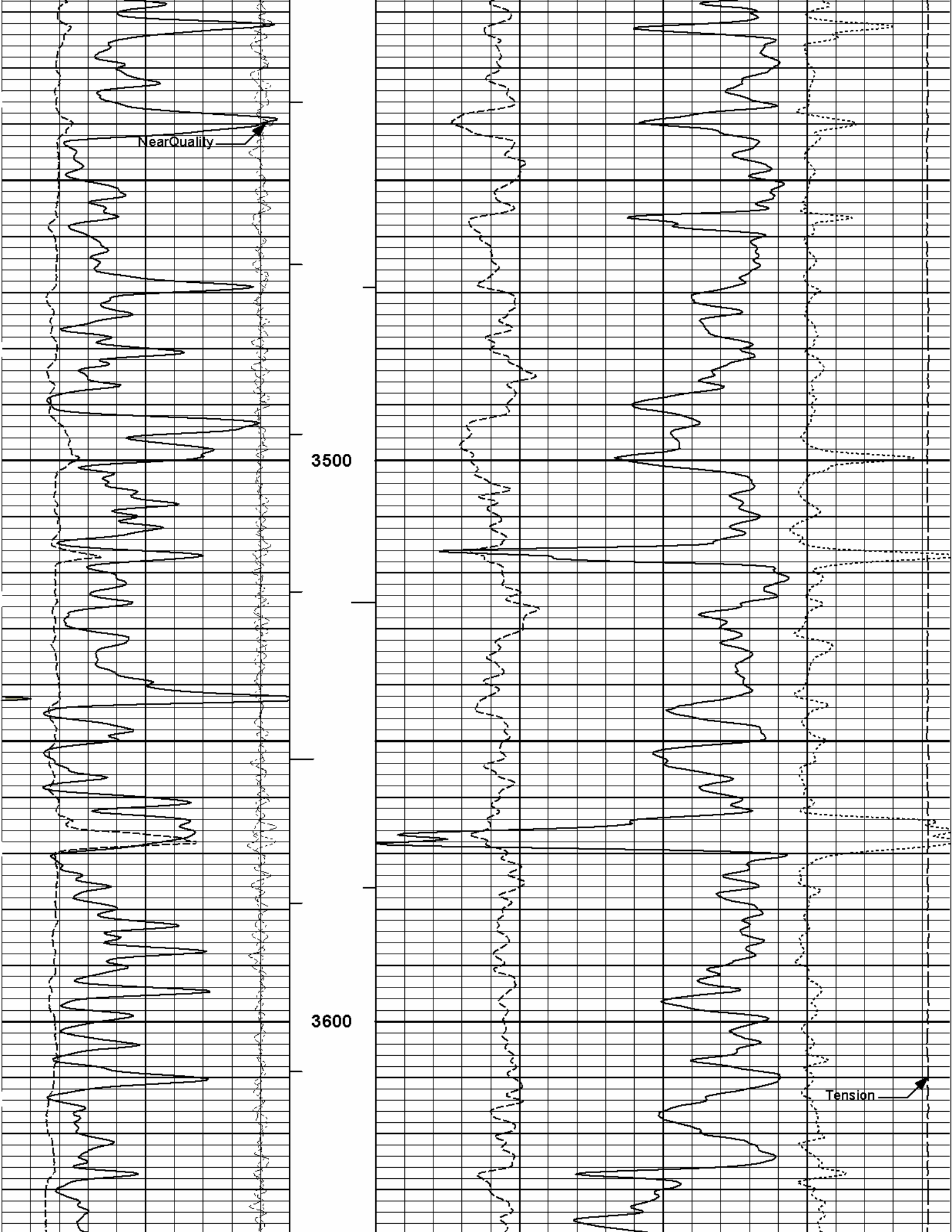


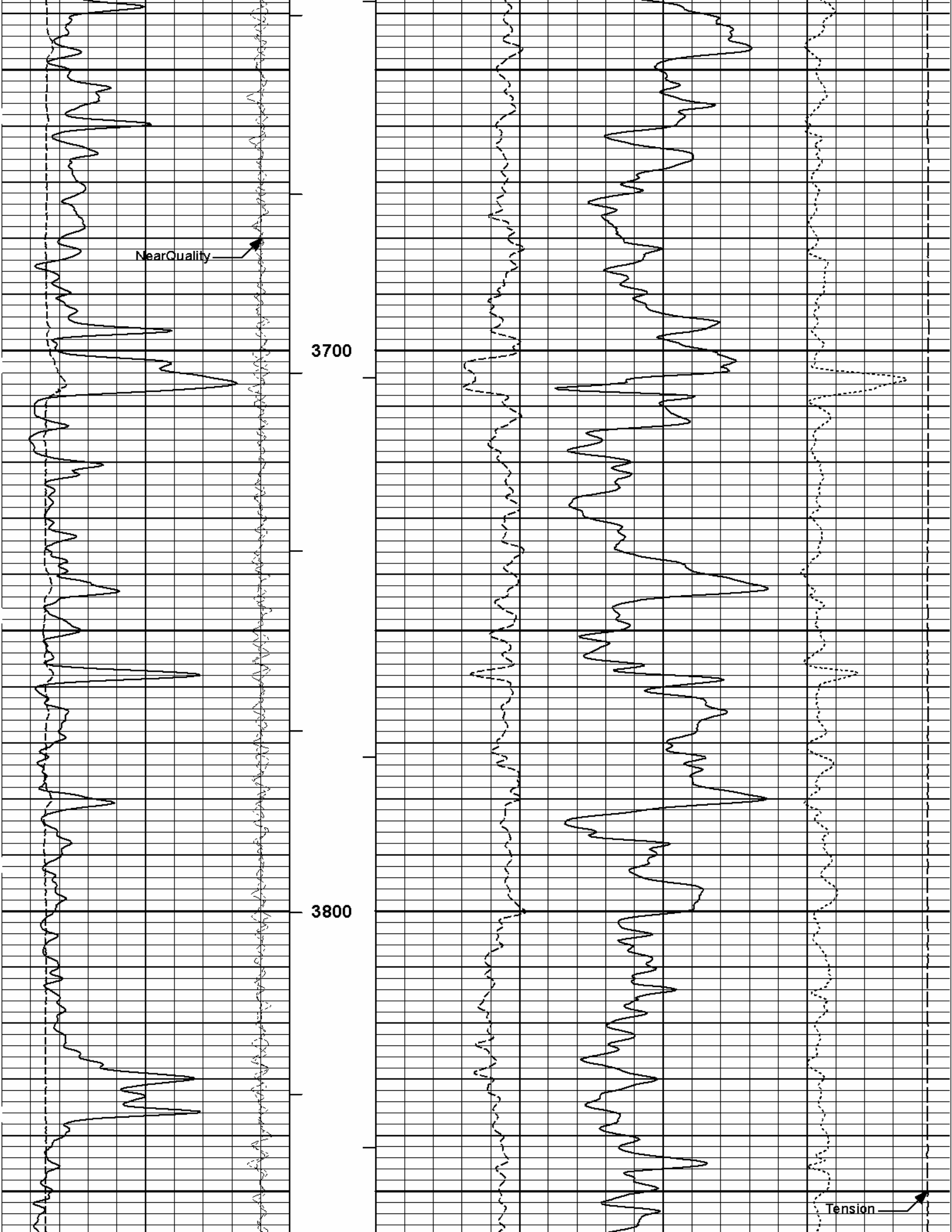


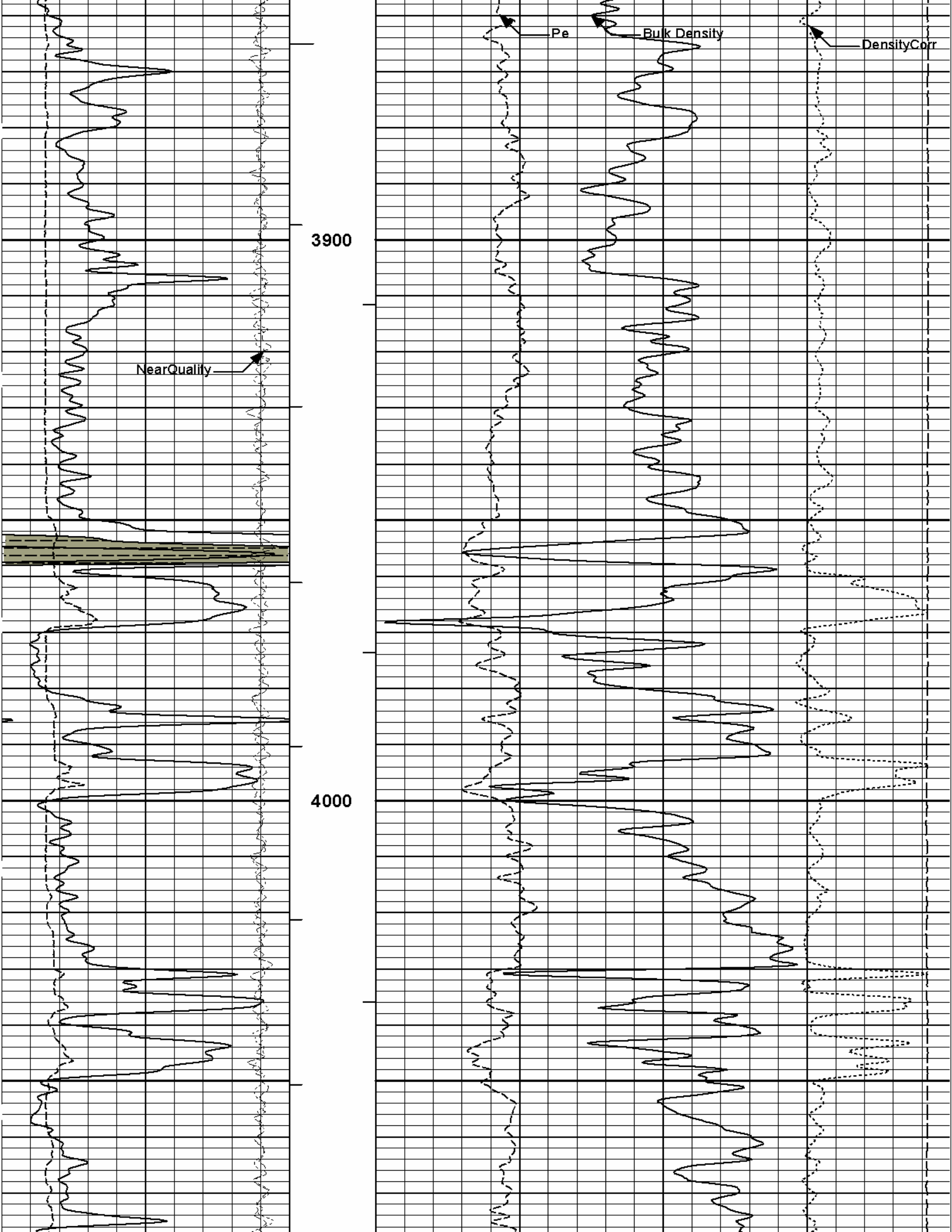


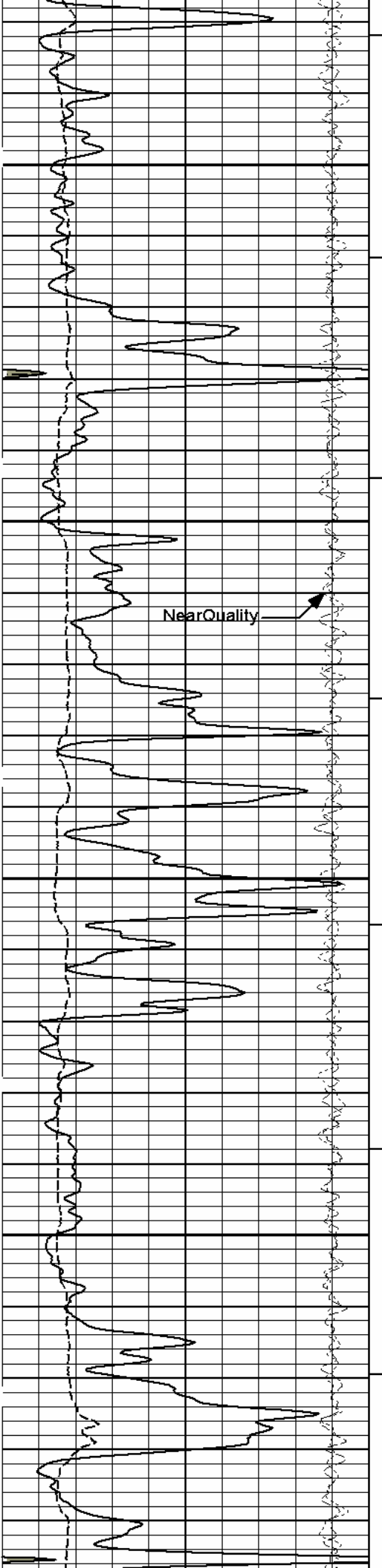








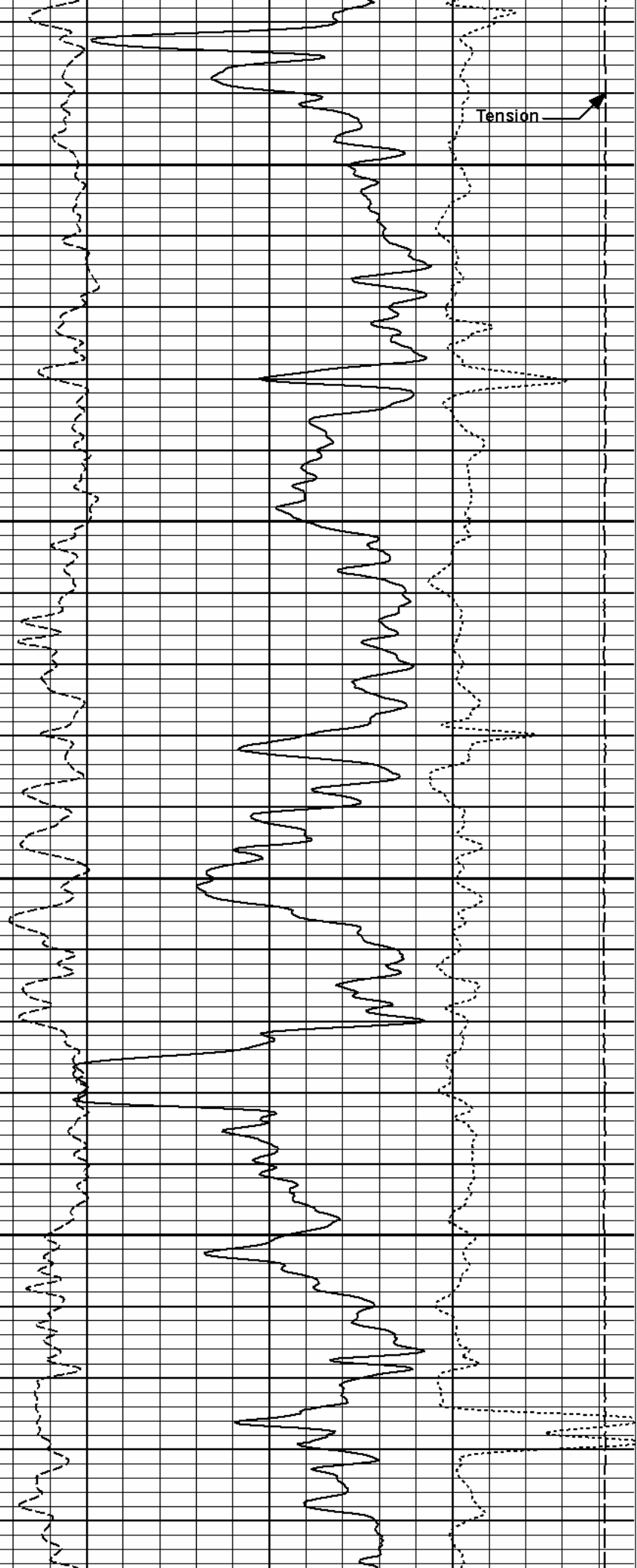




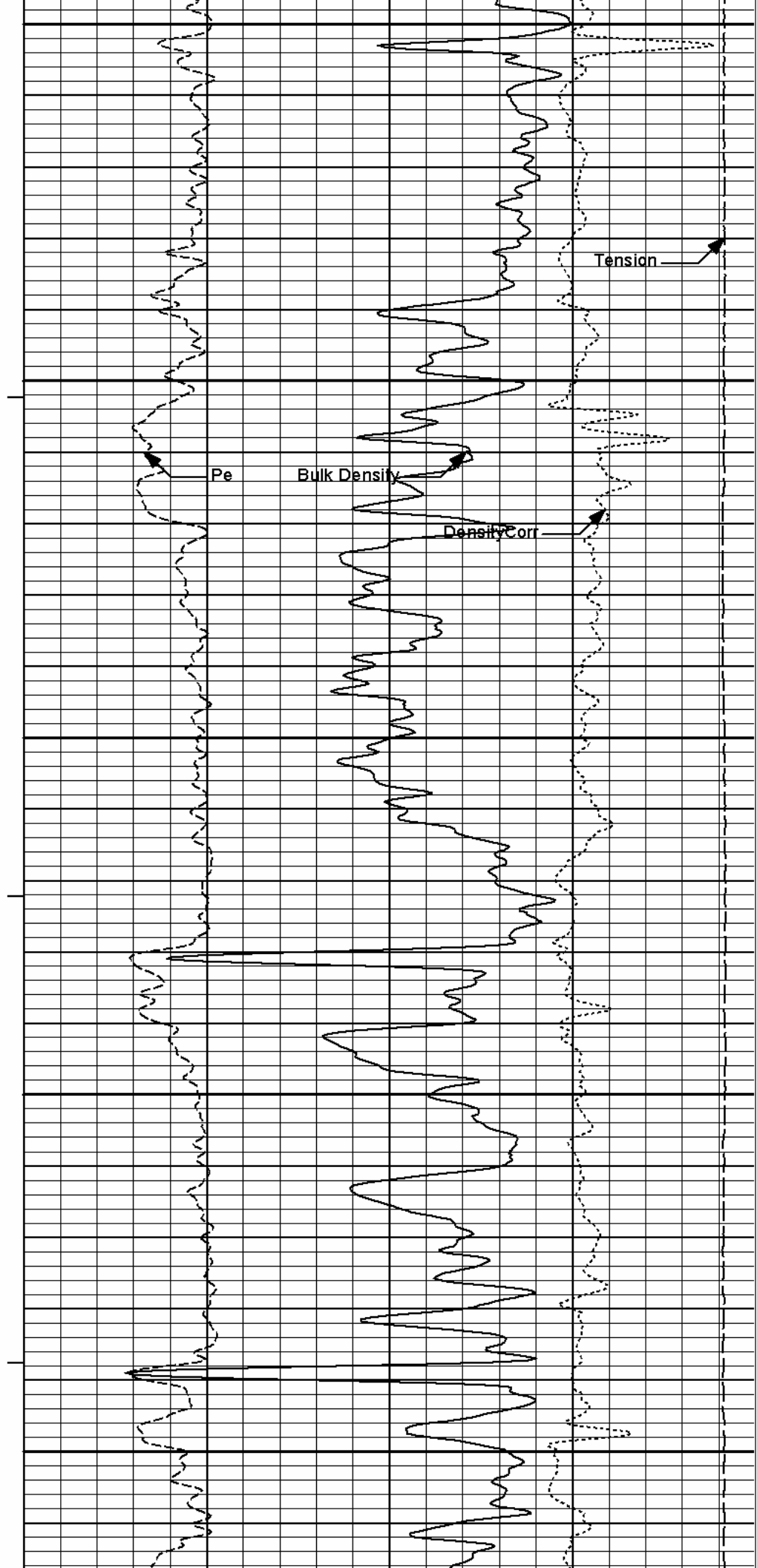
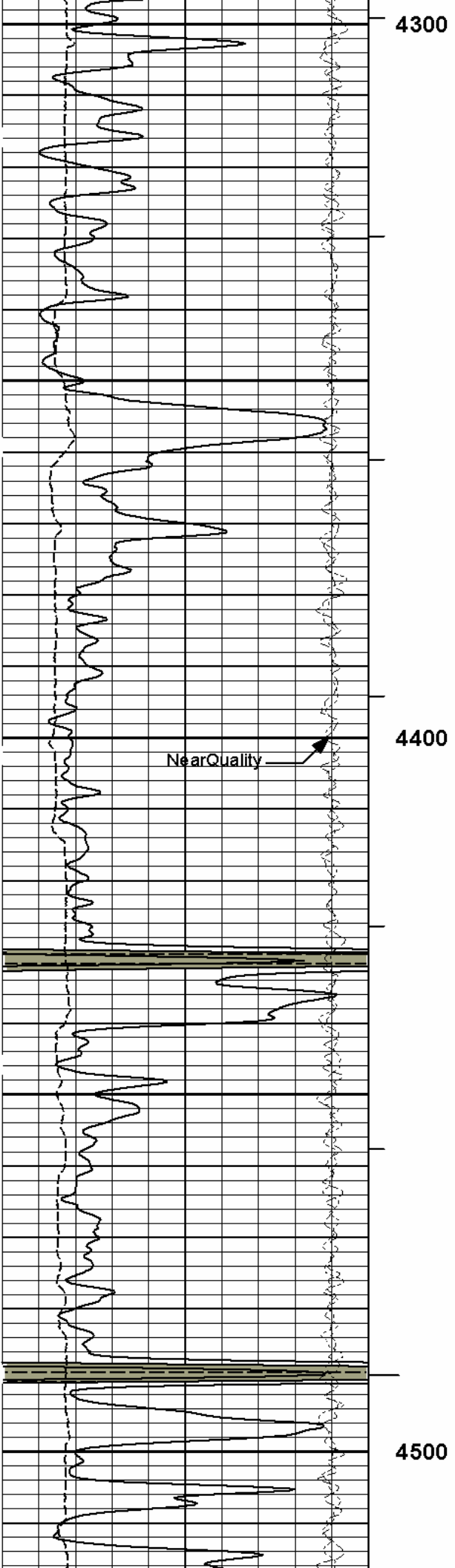
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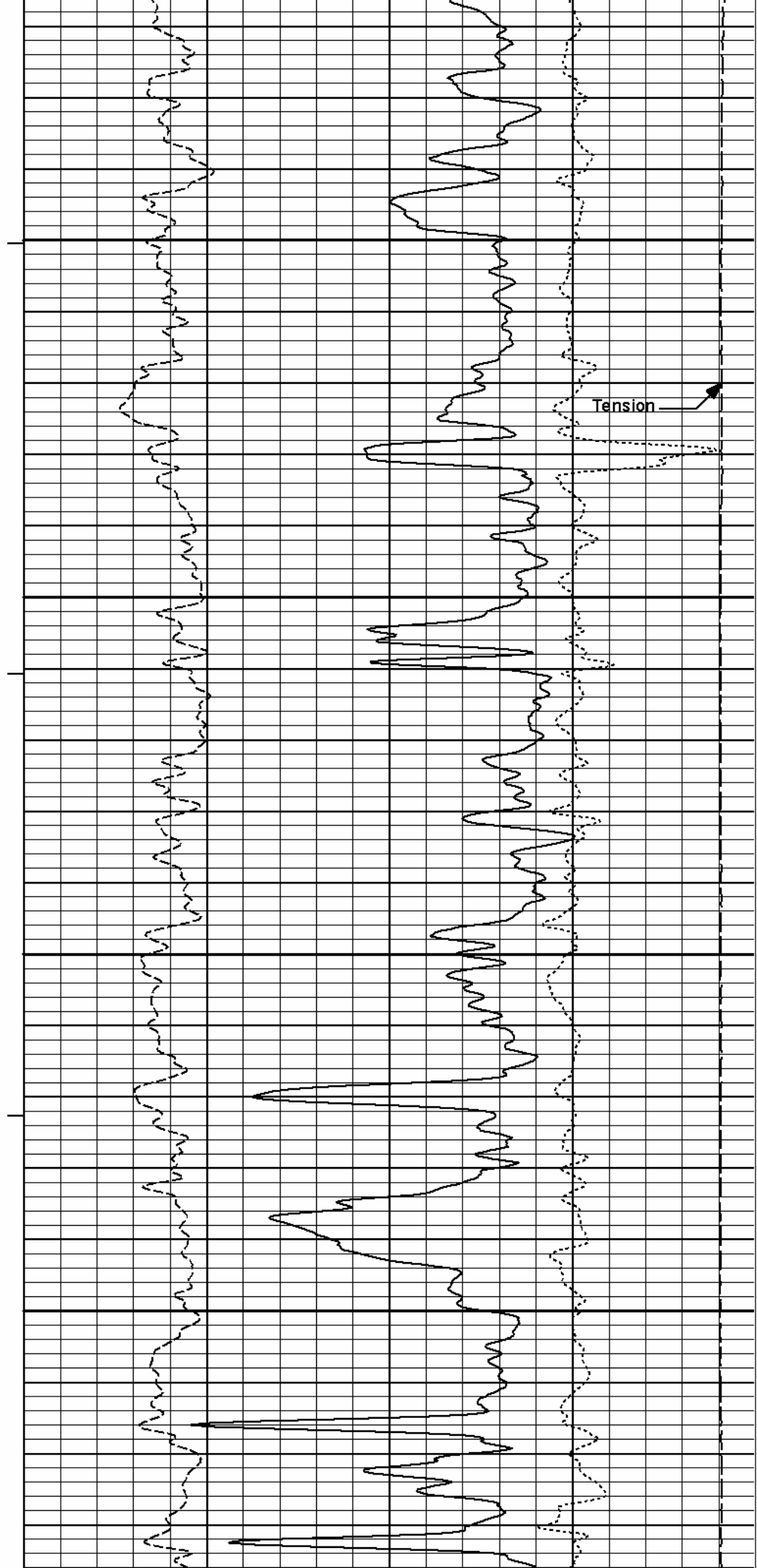
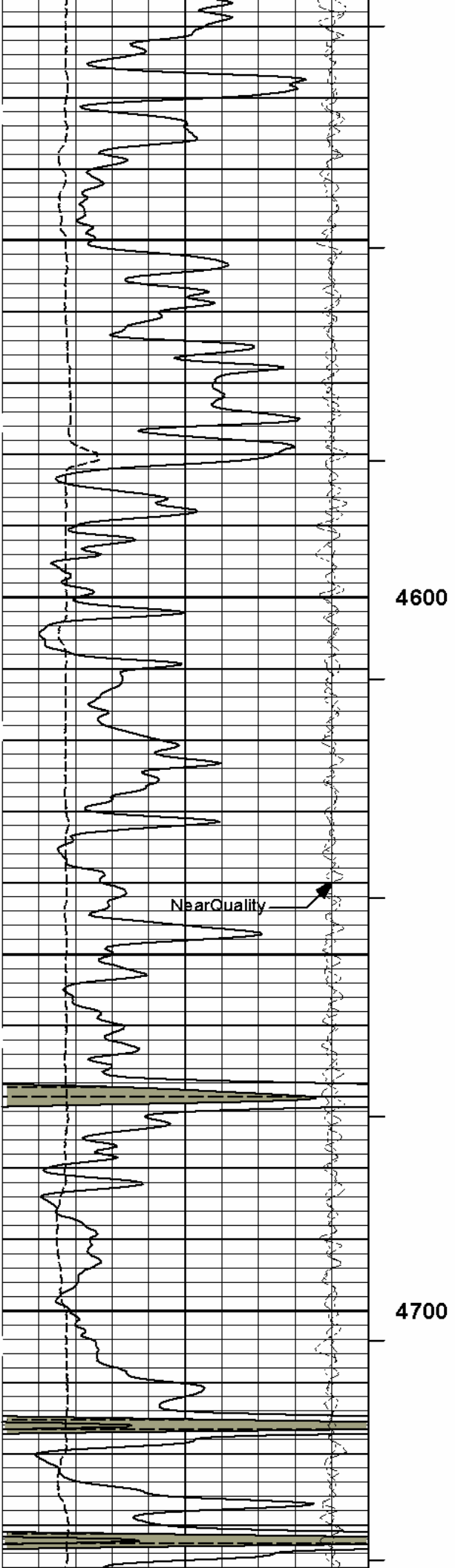
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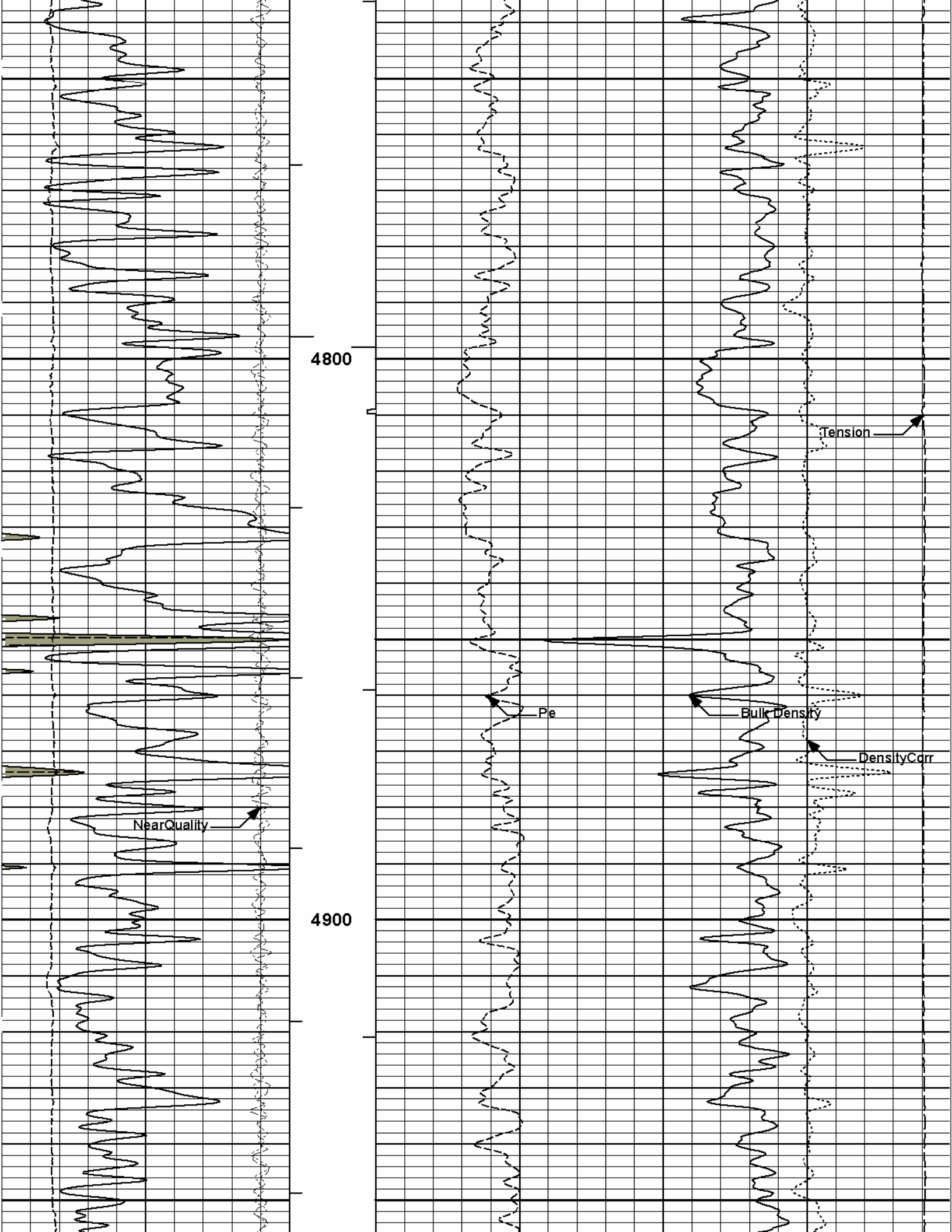
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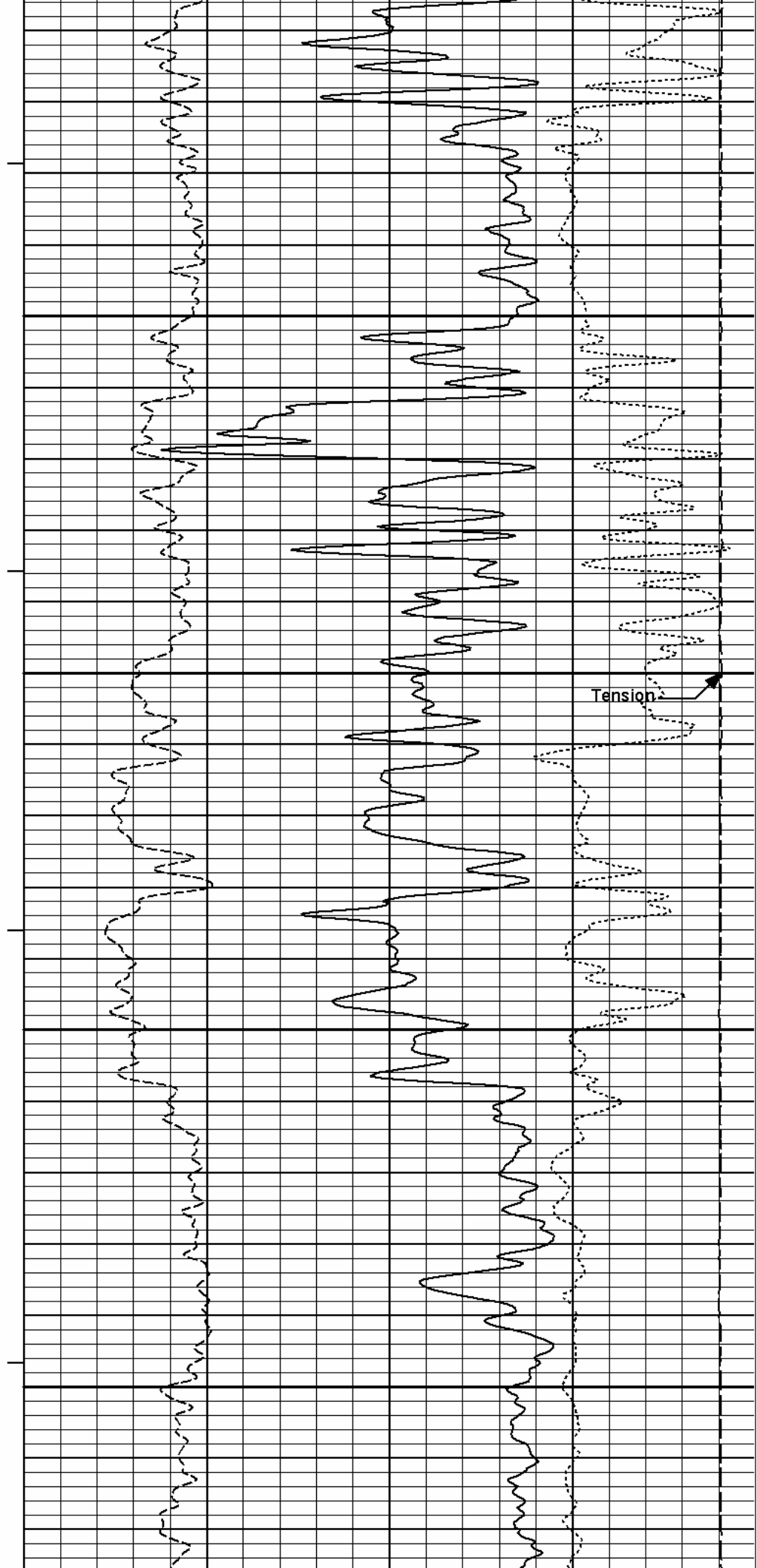
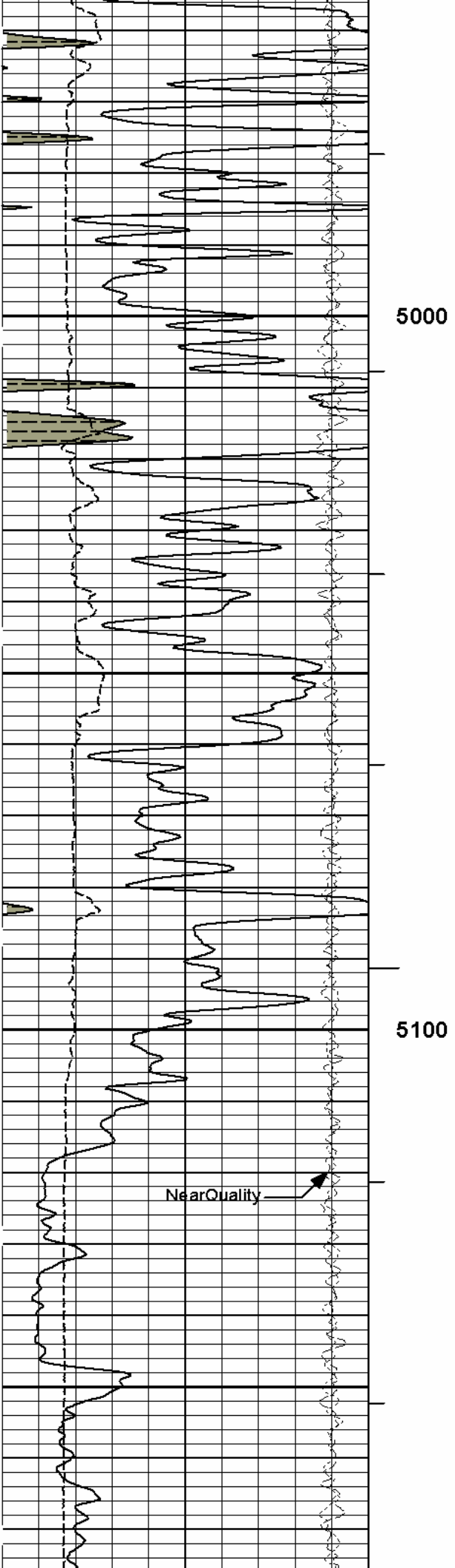


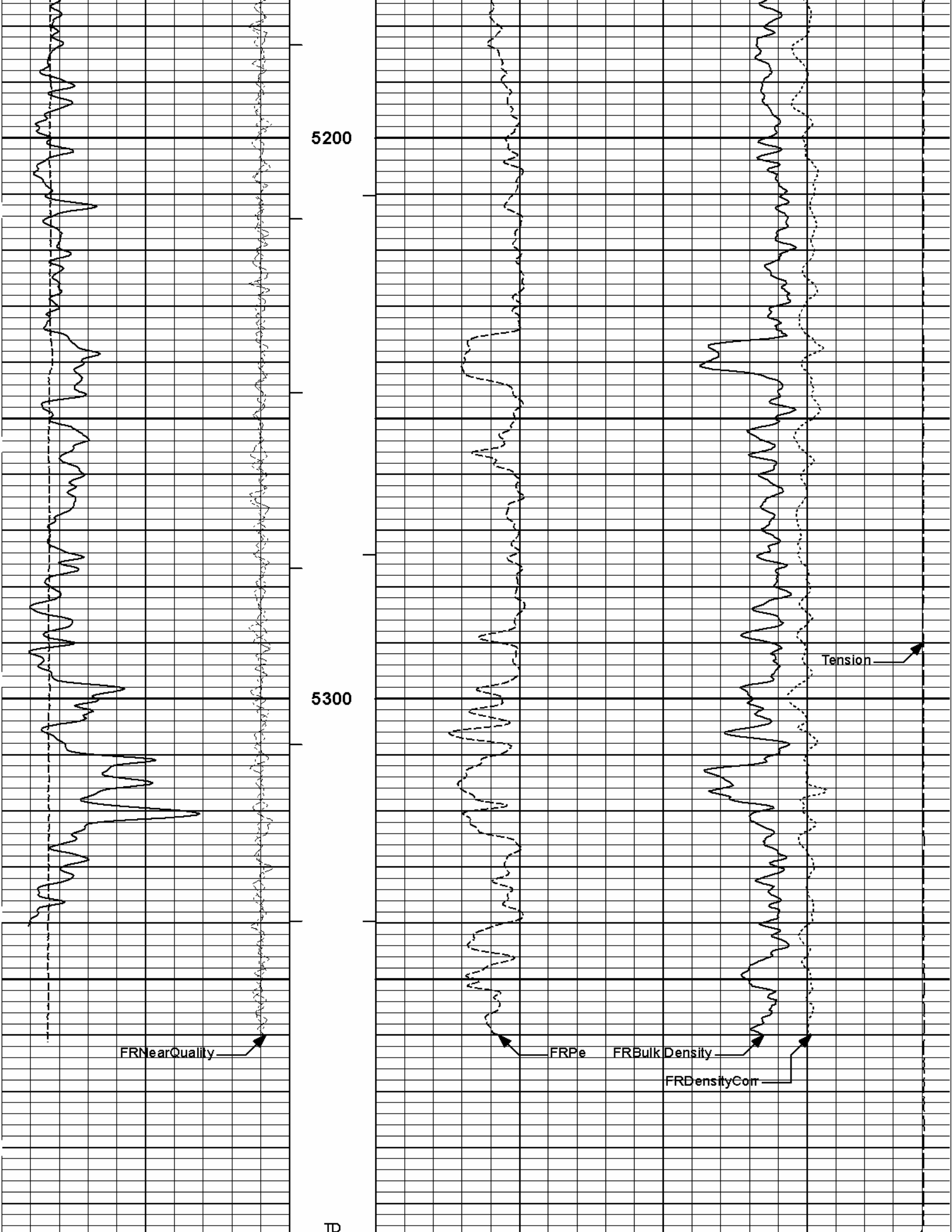
Tension











			5400						
6	Caliper	16	1 : 240	0	Pe	10	-0.25	DensityCorr	0.25
			ft						
inches							g/cc		
-18	NearQuality	2	BHV				15K	Tension	0
			ft3				pounds		
18	FarQuality	-2	AHV	2	Bulk Density				3
			ft3						
				g/cc					
0	Gamma Ray	150	Tension Pull						
api			10 0						
SHALE			Tension Pull						

HALLIBURTON

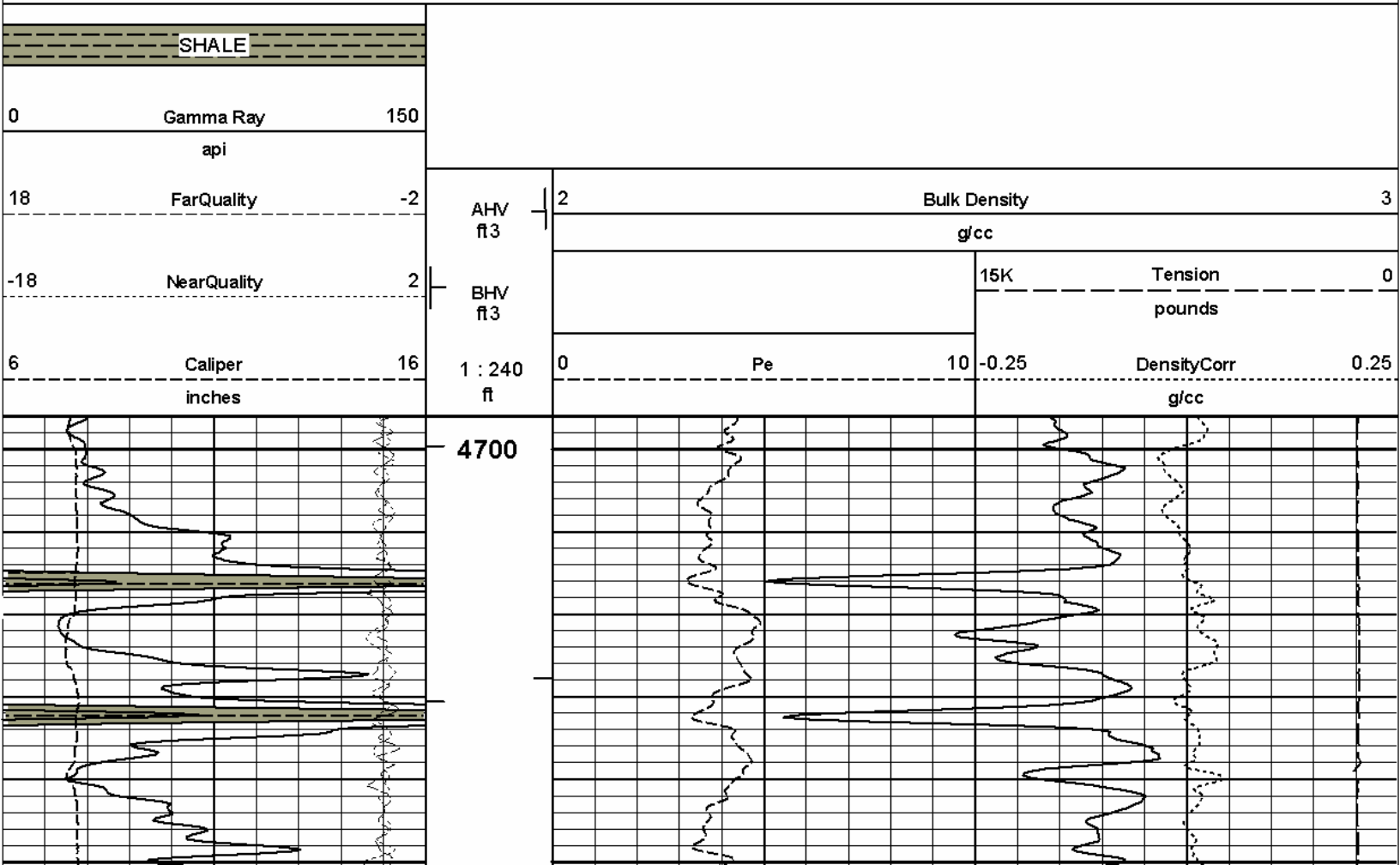
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Plot Range: 1830 ft to 5400 ft
Data: BERGER_A_3\Well Based\MAIN
Plot File: \\-LOCAL-1\BERGER_A_3\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIPORO\BULKD_5_MAIN_LIB

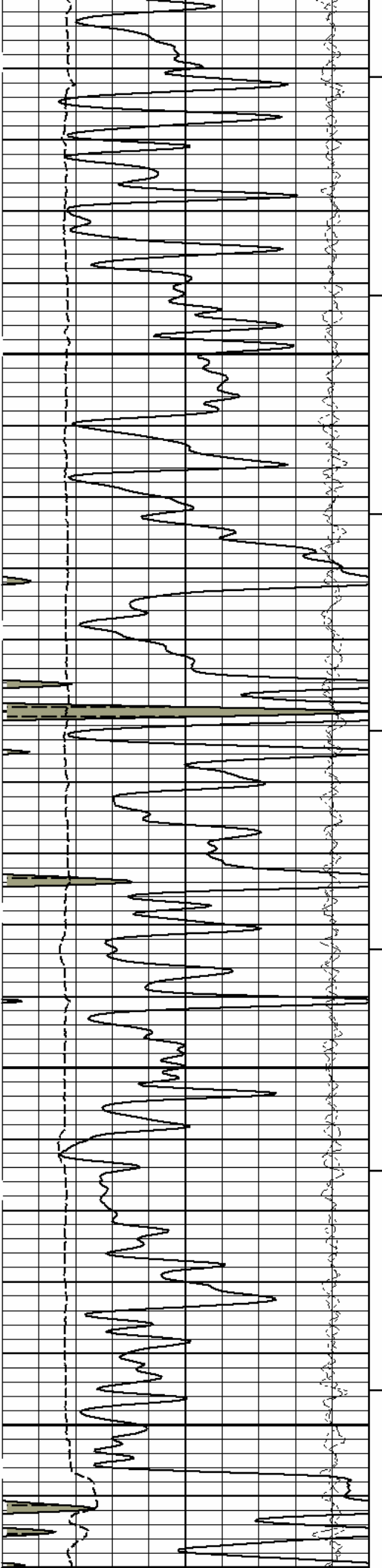
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 28-May-11 15:04:47
Plot Range: 4696 ft to 5399.83 ft
Data: BERGER_A_3\Well Based\REPEAT
Plot File: \\-LOCAL-1\BERGER_A_3\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIPORO\BULKD_5_REP_LIB

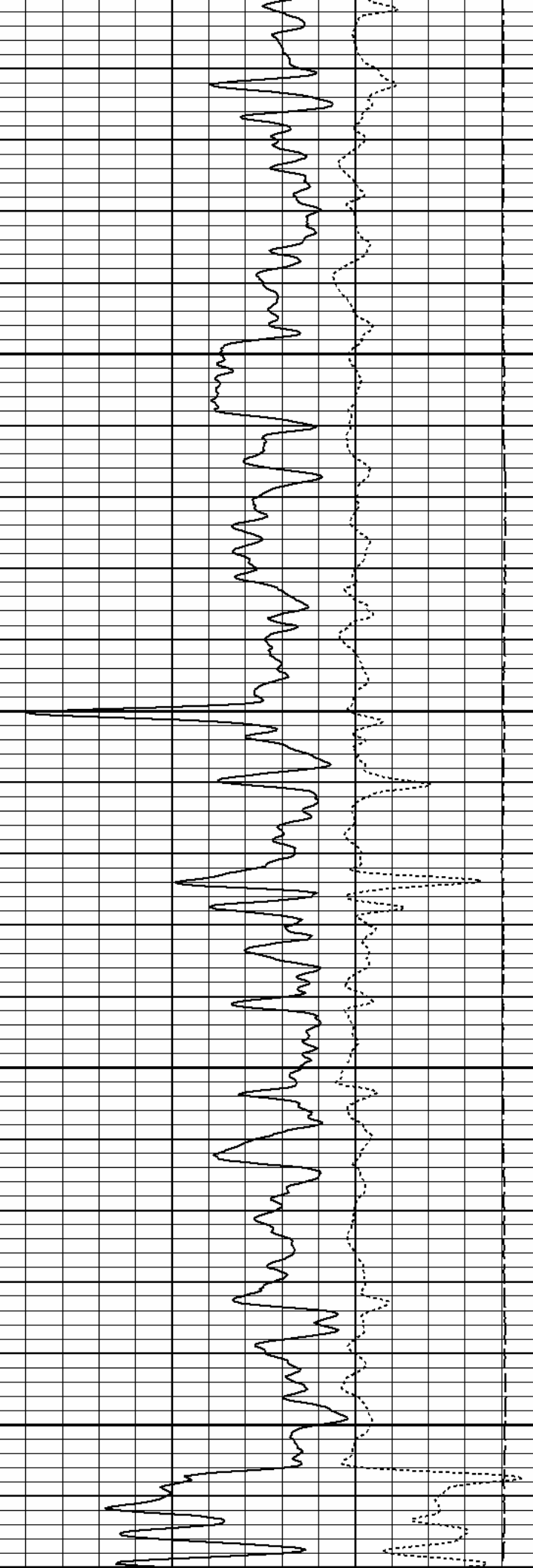
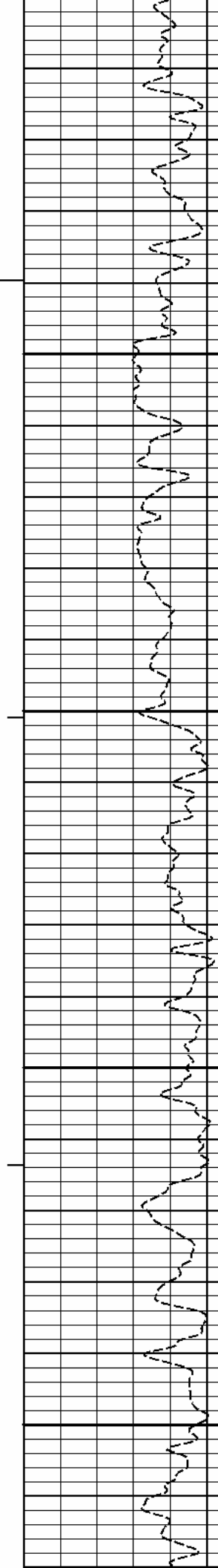
REPEAT SECTION

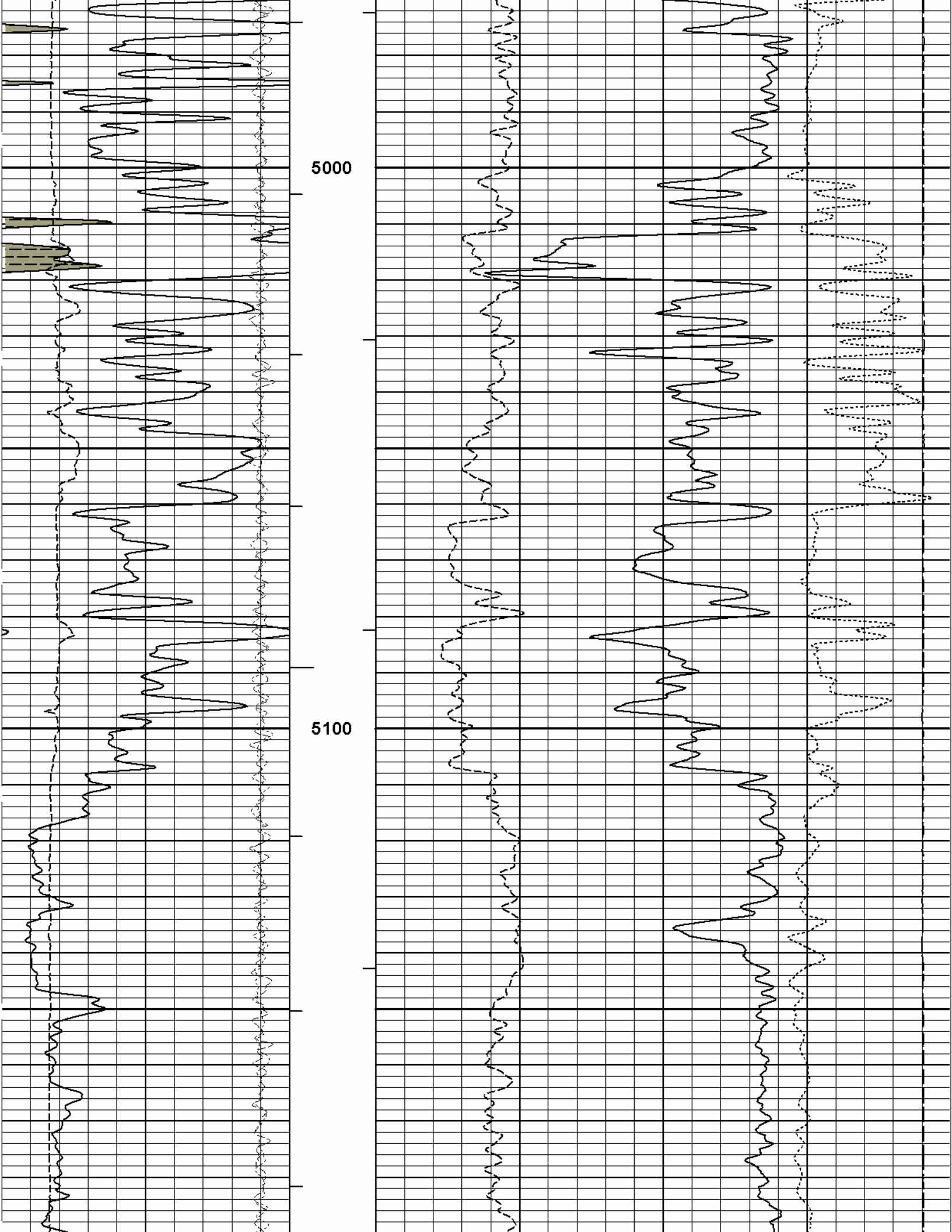


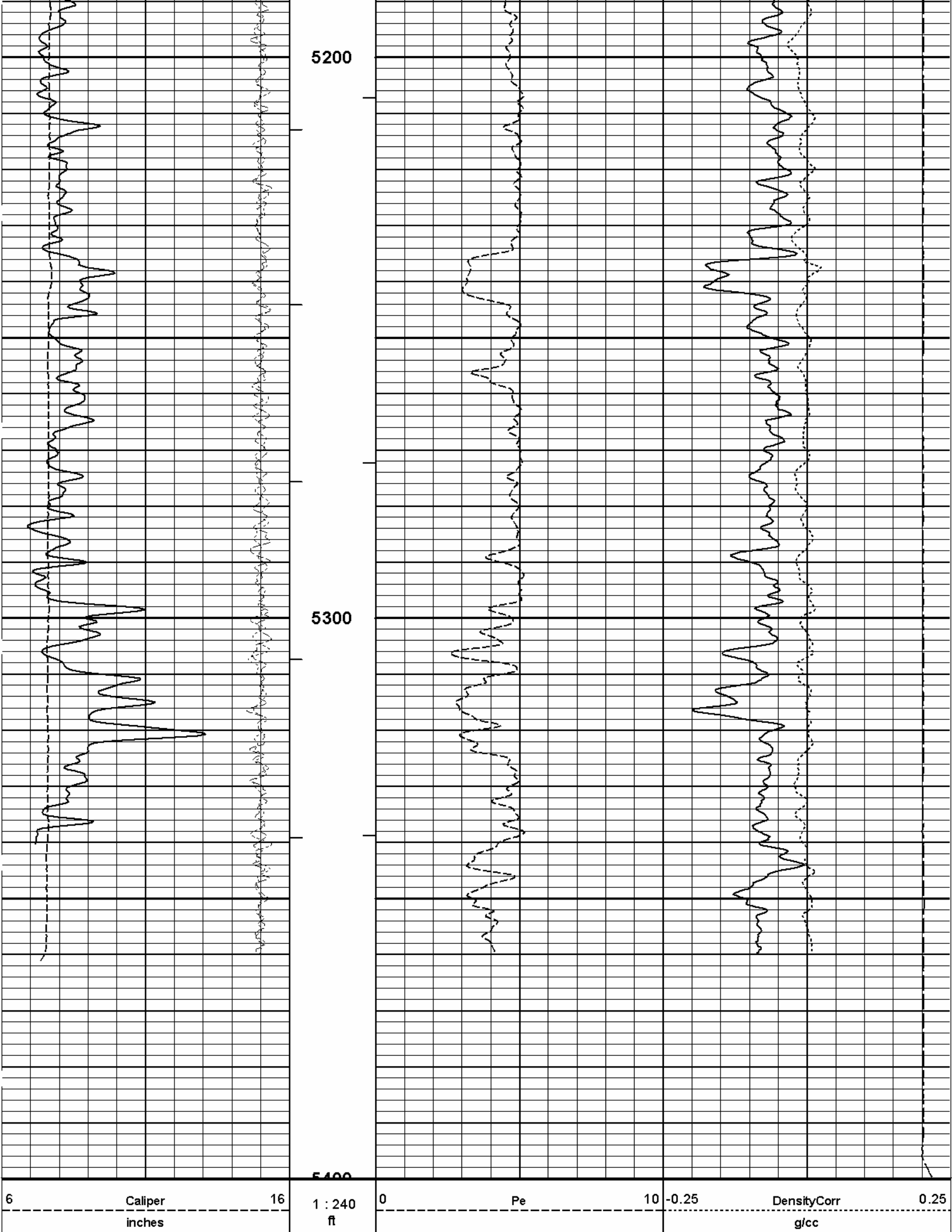


4800

4900







-18	NearQuality	2	BHv ft3		15K	Tension	0	
						pounds		
18	FarQuality	-2	AHv ft3	2	Bulk Density			3
					g/cc			
0	Gamma Ray	150						
	api							
	SHALE							

HALLIBURTON

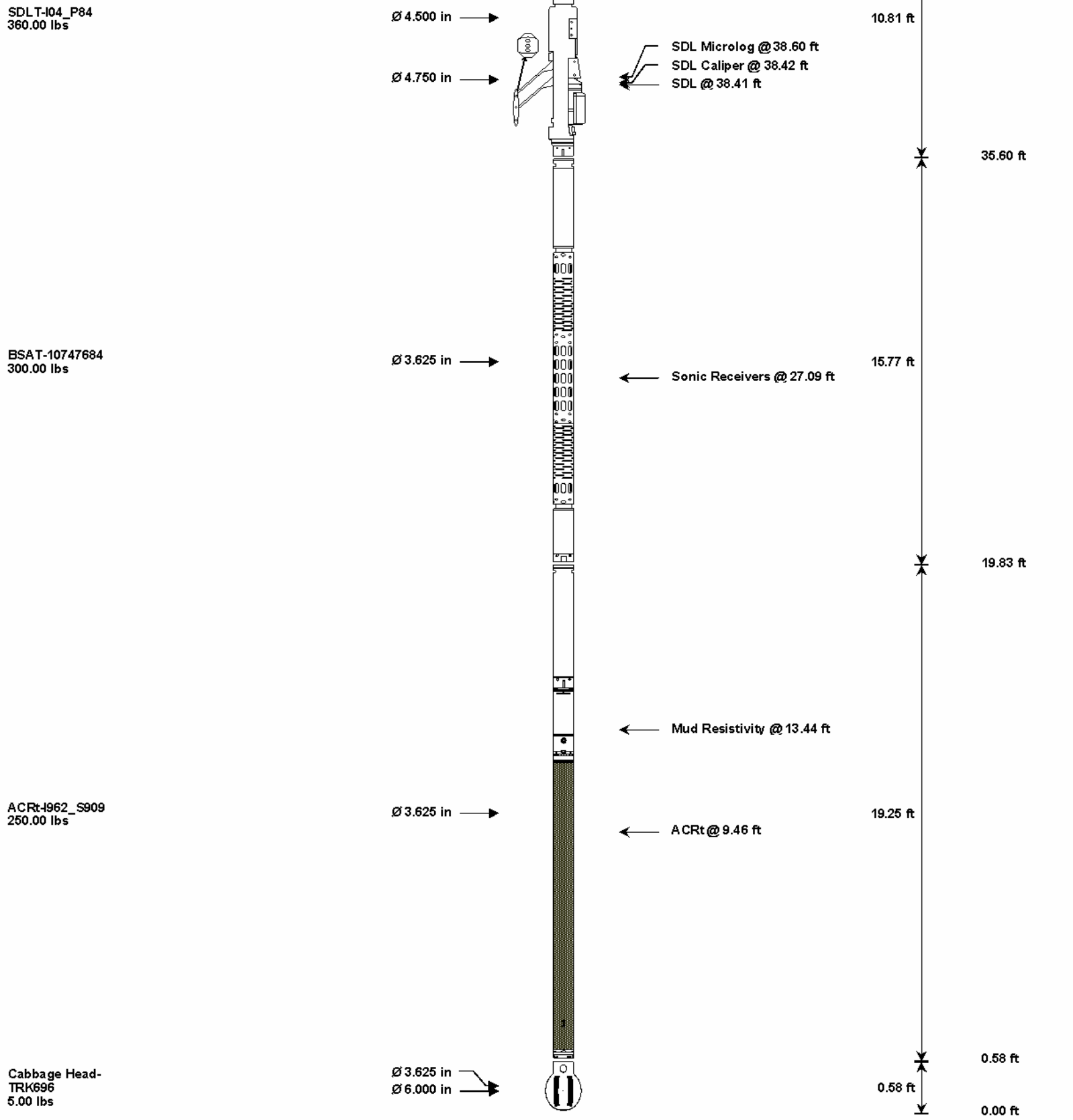
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Data: BERGER_A_3\Well Based\REPEAT\
Plot File: \\LOCAL-1\BERGER_A_3\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIPORO\BULKD_5_REP_LIB

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 @ 71.31 ft	3.03 ft	72.34 ft
XOHD-TRK696 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	69.31 ft
						68.36 ft
SP Sub-PROT01 60.00 lbs		Ø 3.625 in →		← SP @ 66.59 ft	3.74 ft	64.63 ft
GTET-11050378 165.00 lbs		Ø 3.625 in →		← GammaRay @ 58.56 ft	8.52 ft	
						56.10 ft
DSN Decentralizer- 10755066 6.60 lbs		Ø 3.625 in → Ø 3.625 in →			9.69 ft	
DSNT-11055304 174.00 lbs				← DSN Far @ 49.17 ft ← DSN Near @ 48.42 ft		46.42 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	69.31	300.00
XOHD	Hostile to Dits Cross Over	TRK696	20.00	0.95	68.36	300.00
SP	SP Sub	PROT01	60.00	3.74	64.63	300.00
GTET	Gamma Telemetry Tool	11050378	165.00	8.52	56.10	60.00
DSNT	Dual Spaced Neutron	11055304	174.00	9.69	46.42	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	* 49.75	300.00
SDLT	Spectral Density Tool	I04_P84	360.00	10.81	35.60	60.00
BSAT	Borehole Sonic Array Tool	10747684	300.00	15.77	19.83	60.00
ACRt	Array Compensated True Resistivity	I962_S909	250.00	19.25	0.58	300.00
CRHD	Cabbage Head	TRK696	5.00	0.58	0.00	300.00

CDRID	Cabbage Head	TKR090	5.00	0.50	0.00	500.00
Total			1,378.10	72.34		
Data: BERGER_A_3\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHMDLE			* Not included in Total Length and Length Accumulation.			
			Date: 28-May-11 10:54:27			

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11050378	Reference Calibration Date:	03-May-11 10:44:00
Engineer:	J. BOSH	Calibration Date:	03-May-11 13:07:13
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

Calibrator Source S/N: TB 146			
Calibrator API Reference:265.00 api			
Equivalent Calibrator API Reference:269.6 api			
Measurement	Measured	Calibrated	Units
Background	52.2	52.0	api
Background + Calibrator	322.5	321.7	api
Calibrator	269.5	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11050378	Reference Calibration Date:	03-May-11 13:07:13
Engineer:	C. PARKER	Calibration Date:	27-May-11 20:04:52
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

Calibrator Source S/N: TB 146			
Calibrator API Reference:265.00 api			
Equivalent Calibrator API Reference:269.6 api			
Field Verification	Shop	Field	Units
Background	52.0	30.1	api
Background + Calibrator	321.7	302.4	api
Calibrator	269.6	272.3	api
Shop	Field	Difference	Tolerance
269.6	272.3	-2.7	+/- 9.00

NATURAL GAMMA RAY TOOL POST CALIBRATION			
Tool Name:	GTET - 11050378	Reference Calibration Date:	27-May-11 20:04:52
Engineer:	C. HAVERKAMP	Calibration Date:	28-May-11 14:48:09
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

Calibrator Source S/N: TB 146				
Calibrator API Reference:265.00 api				
Calibrator API Reference:269.6 api				
Post Verification		Field	Post	Units
Background		30.1	51.3	api
Background + Calibrator		302.4	320.4	api
Calibrator		272.3	269.1	api
Shop	Field	Post	Difference	Tolerance
269.6	272.3	269.1	3.2	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION**Tool Name:** DSNT - 11055304**Reference Calibration Date:** 31-Mar-11 17:51:18**Engineer:** J. BOSH**Calibration Date:** 03-May-11 11:35:25**Software Version:** WL INSITE R3.2.0 (Build 7)**Calibration Version:** 1

Logging Source S/N: DSN-424

Tank Serial Number: LIB-105060

Reference value assigned to Tank: 51.680

Snow Block S/N: 696 BLOCK

Calibration Tank Water Temperature: 62 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.990	0.994	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):	0.2096	0.2110	0.0013	+/- 0.0020
Calibrated Ratio:	9.68	9.73	0.045	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0802	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:** 03-May-11 11:35:25**Engineer:** C. PARKER**Calibration Date:** 27-May-11 20:07:24**Software Version:** WL INSITE R3.2.0 (Build 7)**Calibration Version:** 1

Logging Source S/N: DSN-424

Snow Block S/N: 696 BLOCK

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0802	0.0786	-0.0017	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DUAL SPACED NEUTRON POST CALIBRATION**Tool Name:** DSNT - 11055304**Reference Calibration Date:** 27-May-11 20:07:24**Engineer:** C. HAVERKAMP**Calibration Date:** 28-May-11 14:54:18**Software Version:** WL INSITE R3.2.0 (Build 7)**Calibration Version:** 1

Logging Source S/N: DSN-424

NEUTRON POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0786	0.0788	0.0002	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATIONTool Name: **SDLT - I04_P84**Reference Calibration Date: **11-Mar-11 14:09:56**Engineer: **J. BOSH**Calibration Date: **03-May-11 13:27:25**Software Version: **WL INSITE R3.2.0 (Build 7)**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: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	0.9909	1.0213	0.90 - 1.10
Near Dens Gain	0.9919	1.0067	0.90 - 1.10
Near Peak Gain	0.9825	0.9979	0.90 - 1.10
Near Lith Gain	0.9789	0.9831	0.90 - 1.10
Far Bar Gain	1.0118	1.0118	0.90 - 1.10
Far Dens Gain	1.0004	1.0038	0.90 - 1.10
Far Peak Gain	0.9958	0.9984	0.90 - 1.10
Far Lith Gain	0.9741	0.9800	0.90 - 1.10
Near Bar Offset	0.2068	-0.0728	NONE
Near Dens Offset	0.1741	0.0443	NONE
Near Peak Offset	0.2208	0.0946	NONE
Near Lith Offset	0.2201	0.1898	NONE
Far Bar Offset	-0.0391	-0.0368	NONE
Far Dens Offset	0.0367	0.0036	NONE
Far Peak Offset	0.0421	0.0178	NONE
Far Lith Offset	0.1698	0.1191	NONE
Near Bar Background	769.10	767.55	700 - 1450
Near Dens Background	248.33	249.31	230 - 480
Near Peak Background	110.11	109.43	100 - 210
Near Lith Background	135.34	134.88	125 - 260
Far Bar Background	535.69	533.52	450 - 900
Far Dens Background	209.25	209.13	175 - 345
Far Peak Background	83.37	83.27	70 - 140
Far Lith Background	85.80	86.61	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.680	1.684	0.004	+/- 0.015

Pe	2.569	2.552	-0.017	+/- 0.150
ALUMINUM				
Density (g/cc)	2.596	2.598	0.002	+/- 0.01500
Pe	3.167	3.124	-0.043	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0017	+/- 0.0110	-0.0009	+/- 0.0140
Magnesium Block	-0.0013	+/- 0.0110	-0.0002	+/- 0.0140
Aluminum Block	0.0008	+/- 0.0110	-0.0006	+/- 0.0140
Resolution	9.18	6.00 - 11.50	8.97	6.00 - 11.50
Internal Verifier(B+D+P+L)	1261	1200 - 2700	913	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 - I04_P84	Reference Calibration Date:	03-May-11 13:27:25
Engineer:	C. PARKER	Calibration Date:	27-May-11 20:04:11
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

Pad Temperature: 85.8 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1261.163	1268.624	7.461	14.393
Far (B+D+P+L) cps	912.532	914.630	2.098	16.392
Near Resolution	9.18	9.14	-0.040	0.50
Far Resolution	8.97	9.33	0.360	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

SPECTRAL DENSITY POST CHECK

Tool Name:	SDLT - I04_P84	Reference Calibration Date:	27-May-11 20:04:11
Engineer:	C. HAVERKAMP	Calibration Date:	28-May-11 14:51:44
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

Pad Temperature: 82.3 degF

DENSITY POST CALIBRATION SUMMARY

Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1268.624	1262.160	-6.464	14.393
Far (B+D+P+L) cps	914.630	916.475	1.845	16.392

Far (B+D+P+L) cps	914.630	916.475	1.845	16.392
Near Resolution	9.14	9.19	0.050	0.50
Far Resolution	9.33	9.08	-0.250	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - I04_P84	Reference Calibration Date:	10-May-11 16:25:02
Engineer:	C. HAVERKAMP	Calibration Date:	10-May-11 16:29:51
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2646.88	-2523.75	-7000.00 - -1000.00
Pad Gain	0.0004021	0.0003926	0.000200 - 0.000600
Arm Offset	-1779.79	-1809.41	-5000.00 - 3000.00
Arm Gain	0.0005298	0.0005135	0.000300 - 0.000700
Arm Power	-0.000005982	-0.000005105	-0.000010 - 0.000010

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

Tool Diameter: 4.50 in

CALIBRATION RINGS

Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	2.00	2.00	0.00	+/- 0.20
Medium Ring (in)	3.79	3.75	-0.04	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.52	6.50	-0.02	+/- 0.20
Medium Ring (in)	8.31	8.25	-0.06	+/- 0.20
Large Ring (in)	15.04	15.00	-0.04	+/- 0.20

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
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SDLT CALIPER FIELD CALIBRATION

Tool Name:	SDLT - I04_P84	Reference Calibration Date:	10-May-11 16:29:51
Engineer:	C. PARKER	Calibration Date:	27-May-11 20:10:19
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.67	-0.08	+/- 0.10
Ring Diameter	8.25	8.29	0.04	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

SDLT CALIPER POST CALIBRATION

Tool Name: SDLT - I04_P84

Reference Calibration Date: 27-May-11 20:10:19

Engineer: C. HAVERKAMP

Calibration Date: 28-May-11 15:01:33

Software Version: WL INSITE R3.2.0 (Build 7)

Calibration Version: 1

MEASURED CALIPER VALUES

Measurement	Field	Post	Change	Control Limit On New Value
Pad Extension	3.67	3.77	0.10	+/- 0.10
Ring Diameter	8.29	8.31	0.02	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11050378						
Gamma Ray Calibrator	269.6	272.3	269.1	3.2	+/- 9.00	api
DSNT-11055304						
Snow-Block Porosity	0.0802	0.0786	0.0788	-0.0002	+/- 0.0150	decg
SDLT-I04_P84						
Near(B+D+P+L)	1261.163	1268.624	1262.160	6.464	+/-14.393	cps
Far(B+D+P+L)	912.532	914.630	916.475	-1.845	+/-16.392	cps
Pad Extension	3.75	3.67	3.77	-0.10	+/-0.10	in
Ring Diameter	8.25	8.29	8.31	-0.020	+/-0.15	in

Data: BERGER_A_3I0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHVdle

Date: 28-May-11 15:02:13

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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	9.100	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	2000.00	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	5410.00	ft
	SHARED	BHT	Bottom Hole Temperature	120.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	

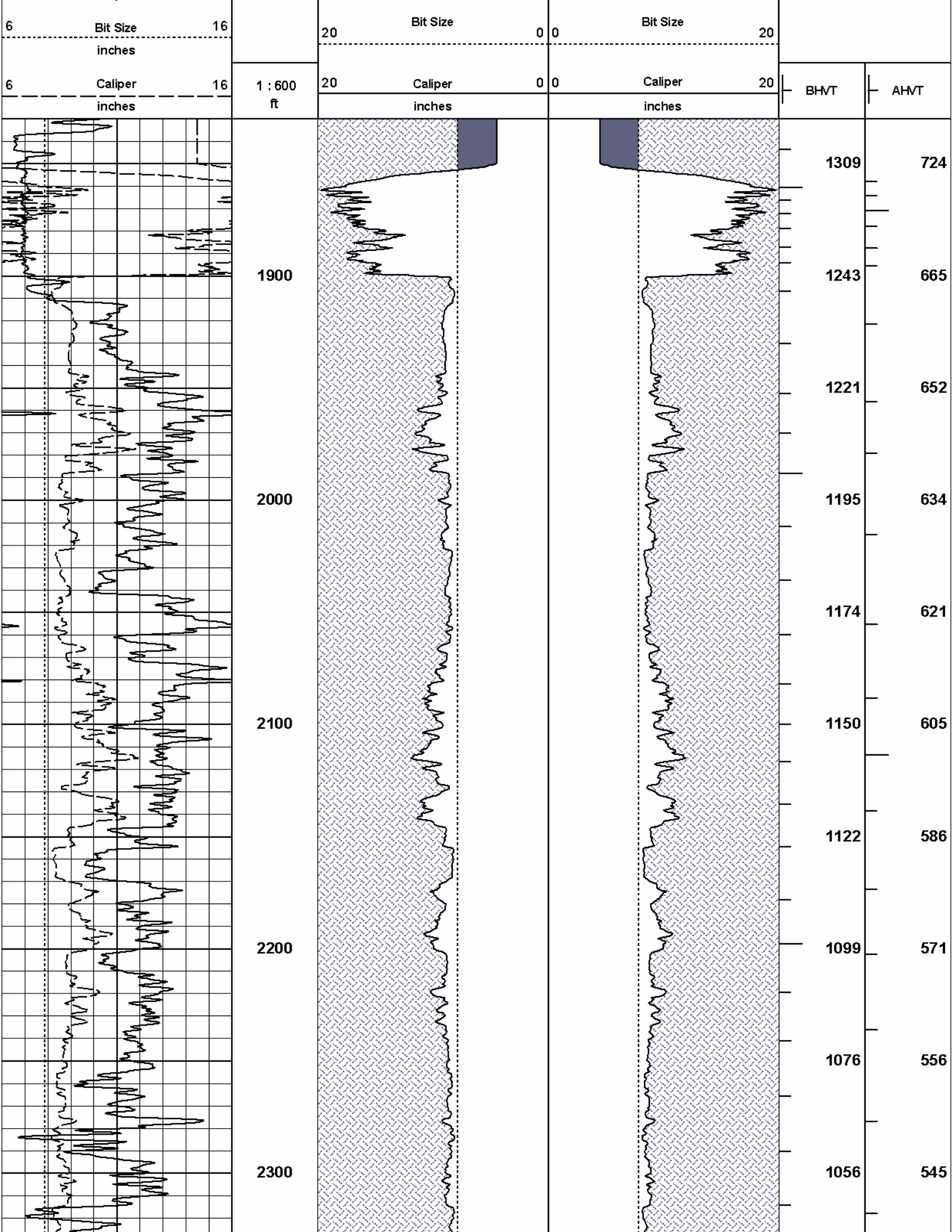
SHARED	BHSM	Borehole Size Master Tool	NONE	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position	Centered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNNO	DSN Standoff - 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	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	DMA	Formation Density Matrix	2.710	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	7000	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	Wyllie	
ACRT	RTOK	Process ACRT?	Yes	
ACRT	MNSO	Minimum Tool Standoff	1.50	in
ACRT	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRT	TPOS	Tool Position	Free Hanging	
ACRT	RMOP	Rmud Source	Mud Cell	
ACRT	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRT	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRT	THQY	Threshold Quality	0.50	

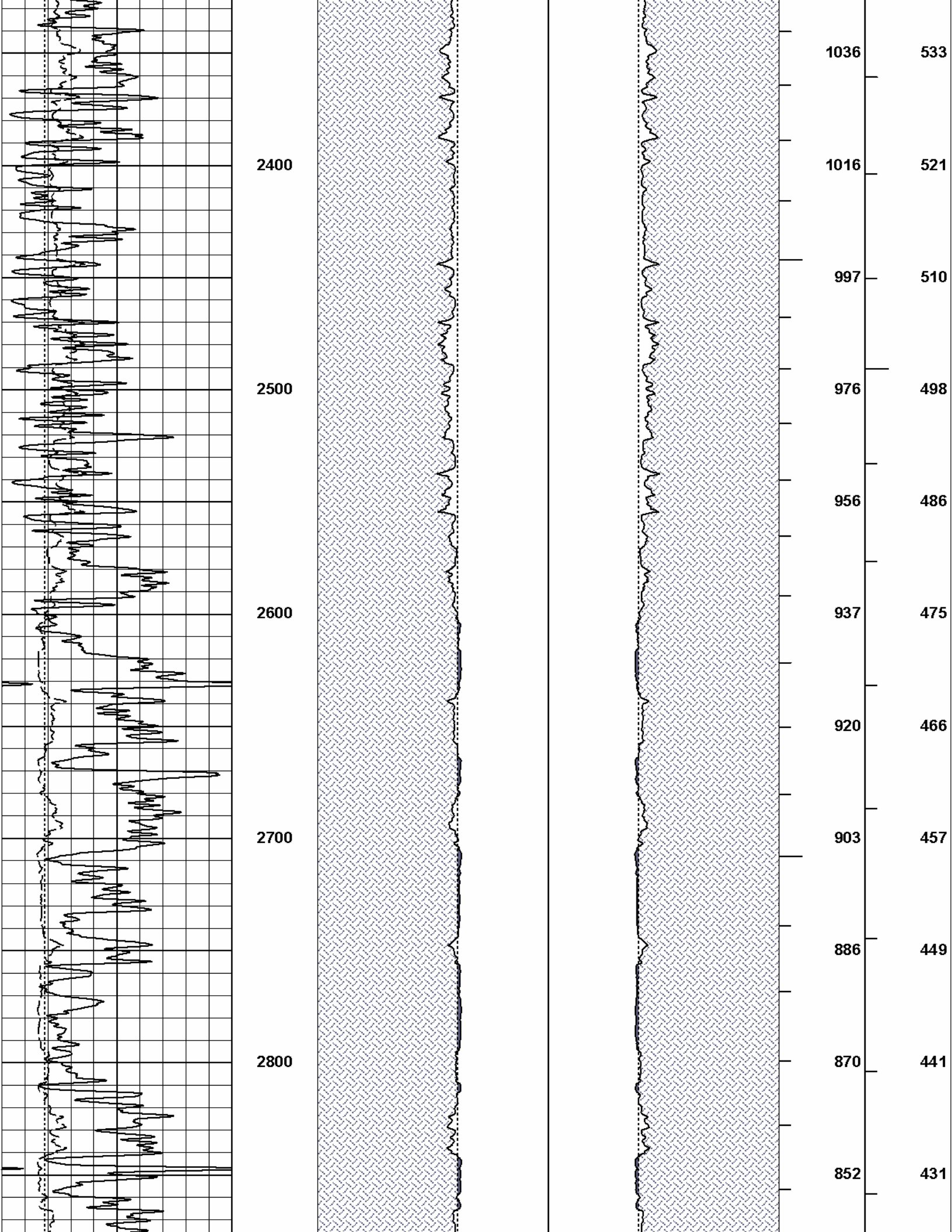
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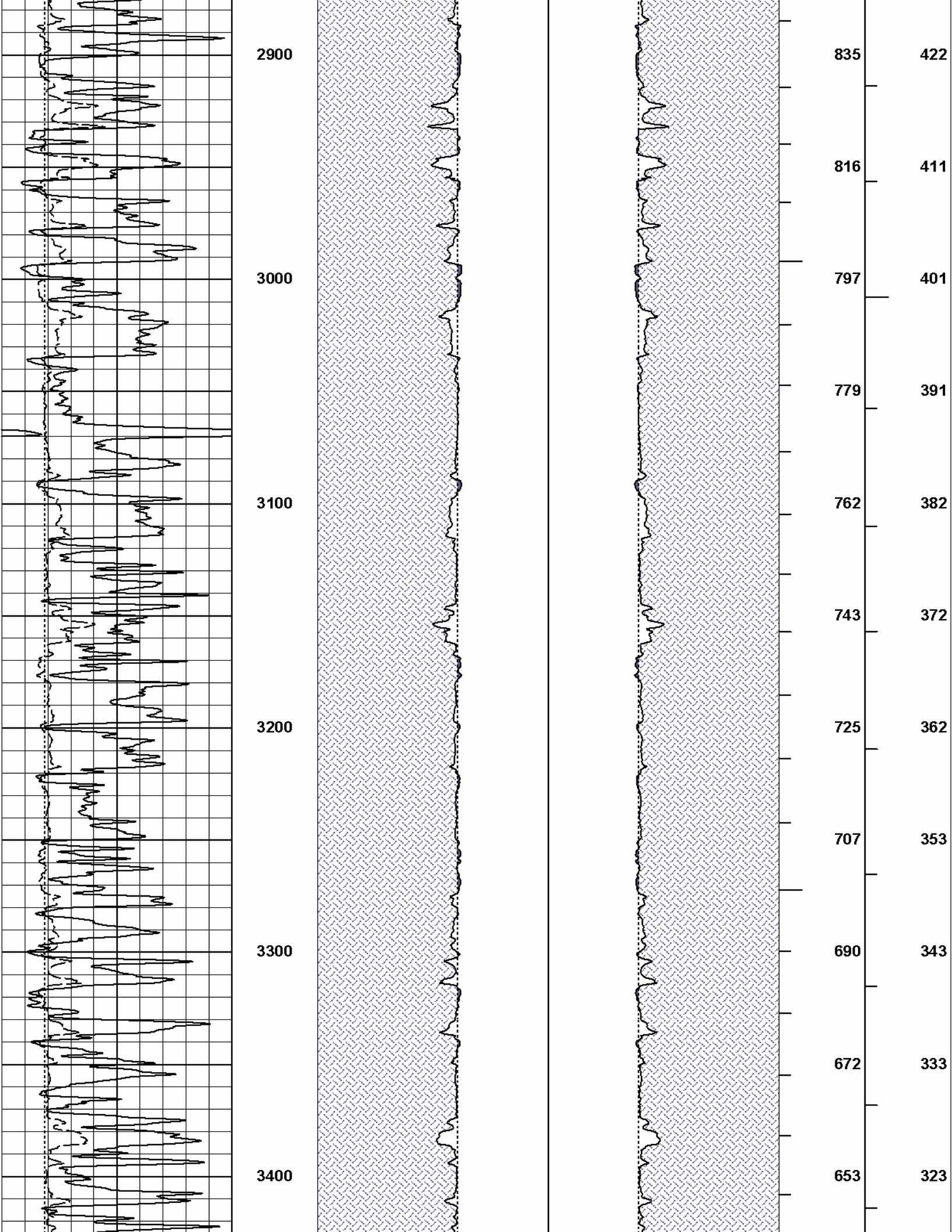
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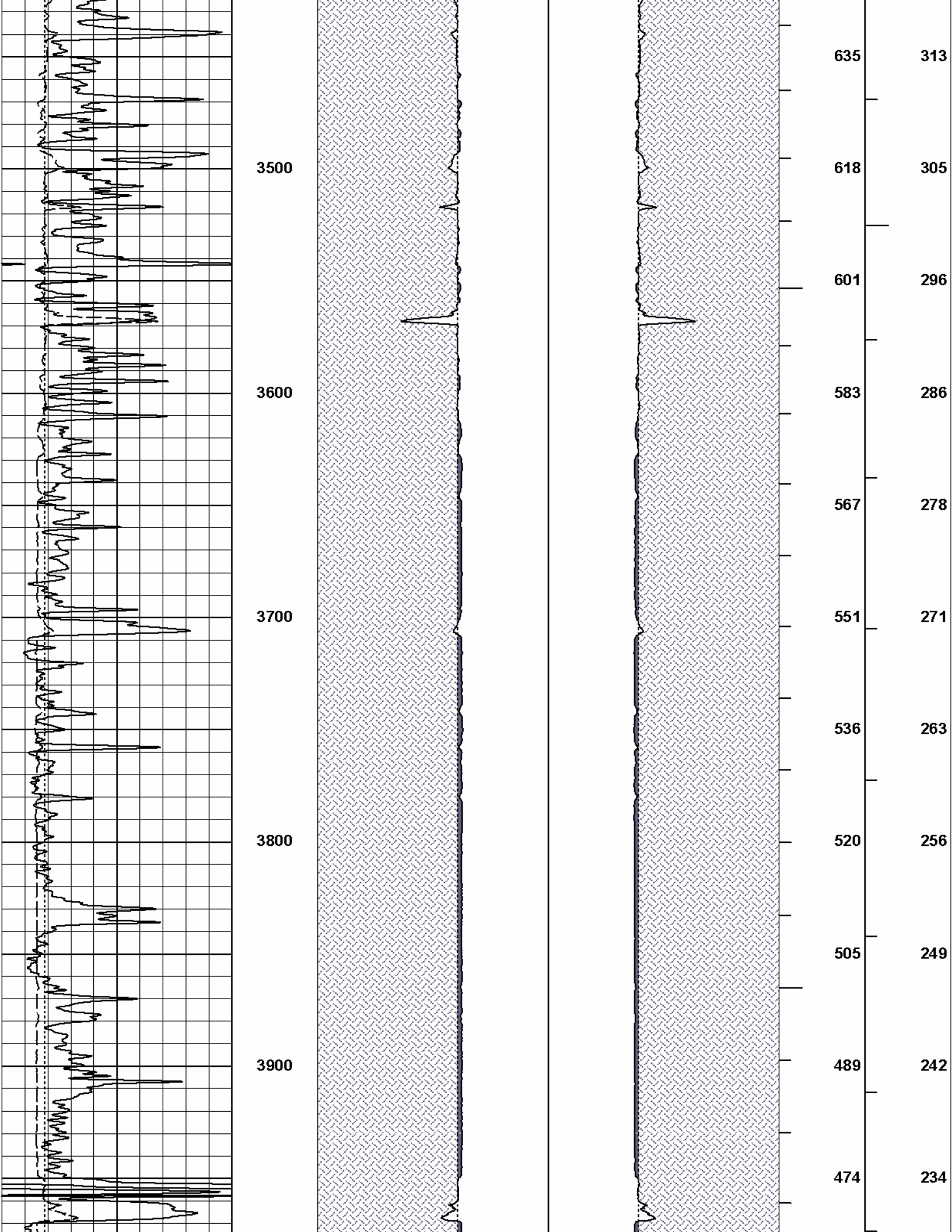
ANNULAR HOLE VOLUME PLOT

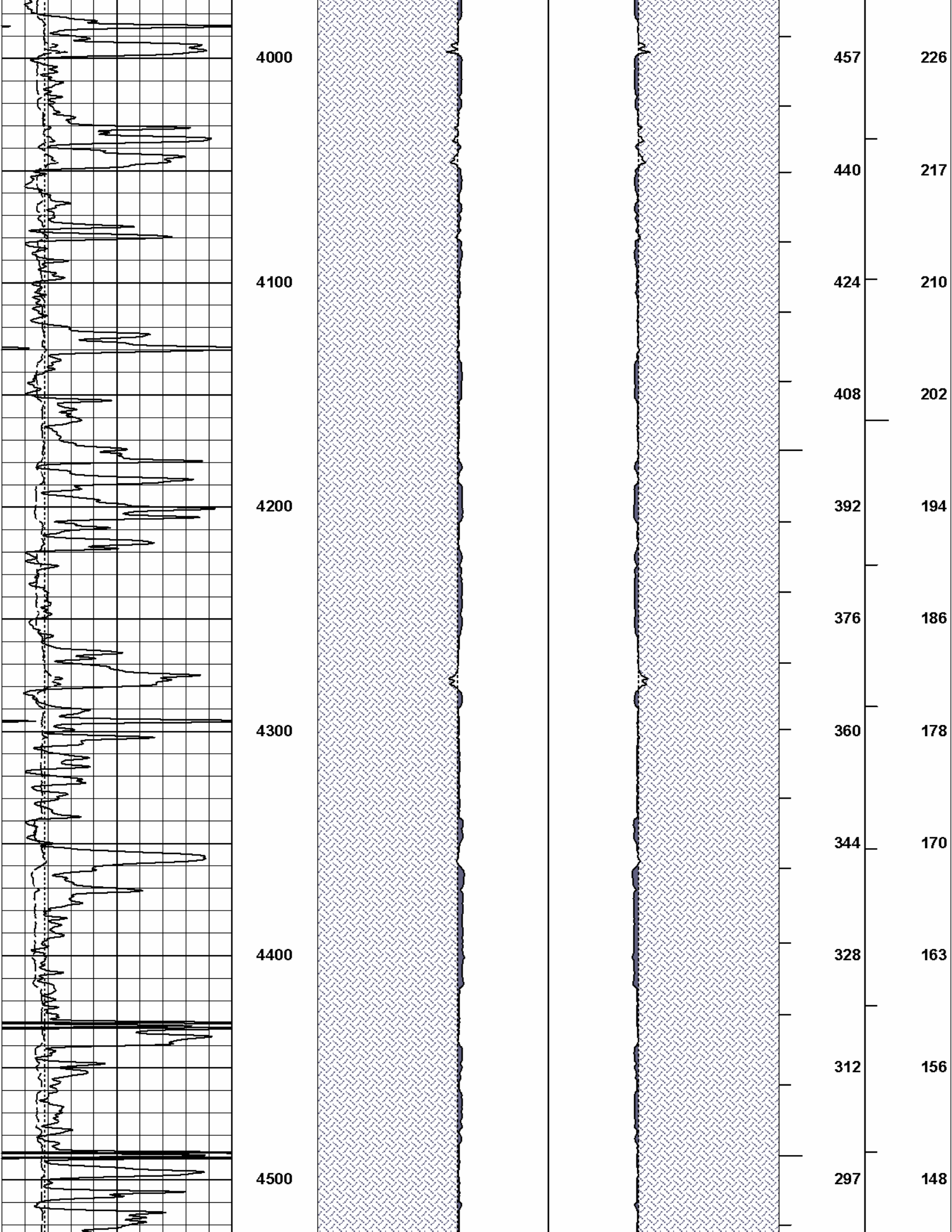
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	api		MUDCAKE	MUDCAKE

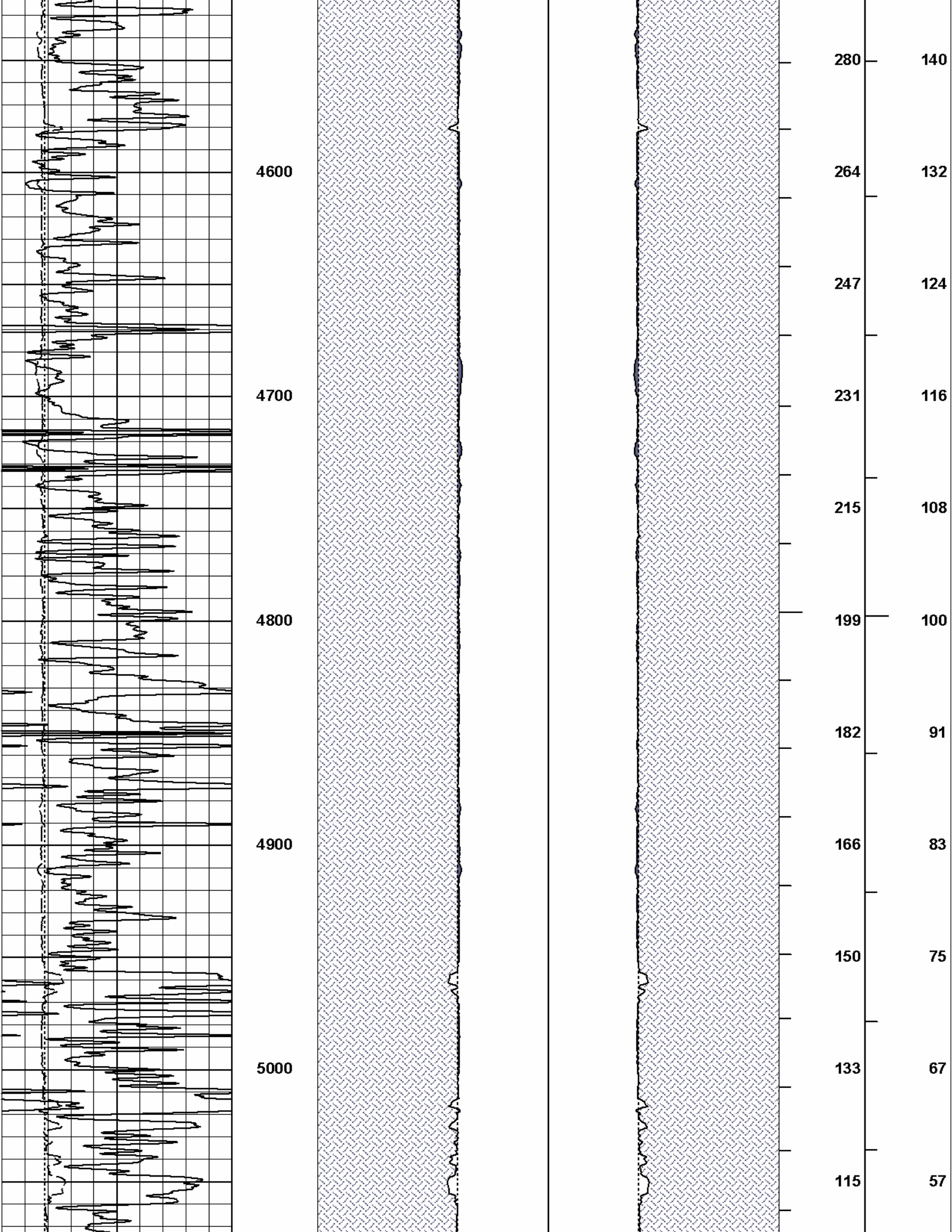


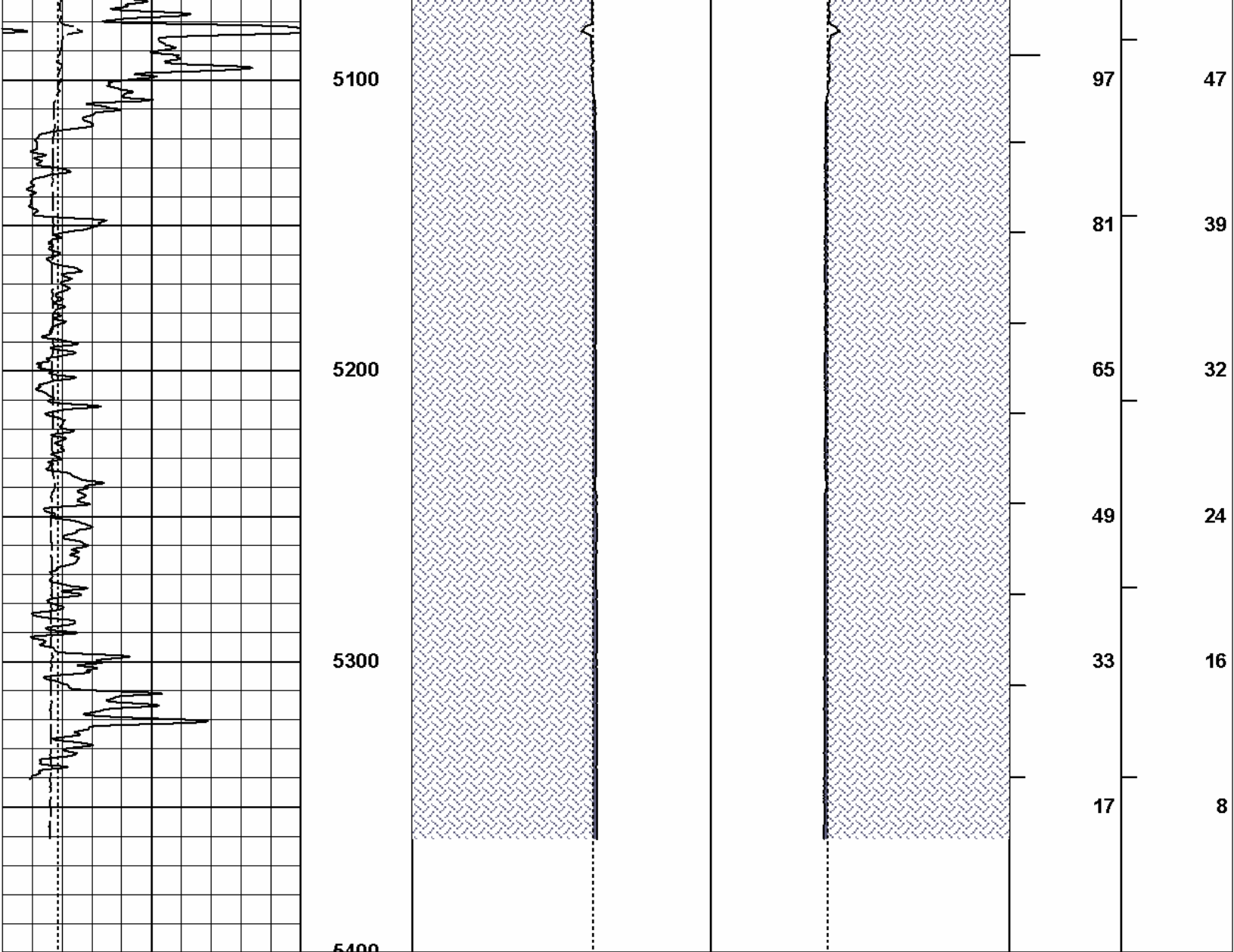












6	Caliper	16	1 : 600	20	Caliper	0 0	20	BHVT	AHVT
	inches		ft		inches				
6	Bit Size	16		20	Bit Size	0 0	20		
	inches								
0	Gamma API	150							
	api								

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Plot Time: 28-May-11 15:04:58
Plot Range: 1830 ft to 5400 ft
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ANNULAR HOLE VOLUME PLOT

COMPANY	OXY USA, INC	STATE	KANSAS
WELL	BERGER A-3		
FIELD	PLEASANT PRAIRIE		
COUNTY	HASKELL		

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**SPECTRAL DENSITY
DUAL SPACED NEUTRON
LOG**