

HALLIBURTON

SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

COMPANY		EOG RESOURCES	
WELL		OBRATE 33 #1	
FIELD		NW SUBLETTE	
COUNTY		HASKELL	
STATE		KANSAS	
Permanent Datum		GL	
Log measured from		KB	
Drilling measured from		KB	
Date		24-May-11	
Run No.		1	
Depth - Driller		5756.00 ft	
Depth - Logger		5756.0 ft	
Bottom - Logged Interval		5718.0 ft	
Top - Logged Interval		2350.0 ft	
Casing - Driller		8.625 in @ 1729.0 ft	
Casing - Logger		1726.0 ft	
Bit Size		7.875 in @	
Type Fluid in Hole		WATER BASED MUD	
Density		8.9 ppq 60.00 s/qt	
PH		10.00 pH 8.0 cp/m	
Source of Sample		FLOW LINE	
Rm @ Meas. Temperature		1.310 ohmm @ 85.00 degF	
Rmf @ Meas. Temperature		1.11 ohmm @ 82.00 degF	
Rmc @ Meas. Temperature		1.590 ohmm @ 82.00 degF	
Source Rmf		MEAS Rmc	
Rm @ BHT		0.82 ohmm @ 140.0 degF	
Time Since Circulation		5.0 hr	
Time on Bottom		24-May-11 10:33	
Max. Rec. Temperature		130.0 degF @ 5756.0 ft	
Equipment		10546696 LIBERAL	
Recorded By		J. BOSH	
Witnessed By		W. SHAFFER	
		M. KNOX	

Fold here

Service Ticket No.: 8167669				API Serial No.: 15-081-219360000				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.		I43_M96_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		CS 137		Source Type		AM241BE			
Length		8"		LSA [Y/N]				Serial No.		5168 GW		Serial No.		DSN-424			
Distance to Source		10'		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	TD	2350	REC	0	150					30		-10	2.71		30	-10	LIME		
DIRECTIONAL INFORMATION																			
Maximum Deviation @									KOP @										
Remarks: ANNULAR HOLE VOLUME 5.5 INCH CASING																			
CHLORIDES: 700 MG/L																			
GPS COORDINATES: LAT: 37.39 N LONG: 100.55 W																			
TODAY'S CREW: V. JAIME, K. KELLY																			
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, LIBERAL, KS 620-624-8123																			
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.																			
HALLIBURTON																			

HALLIBURTON

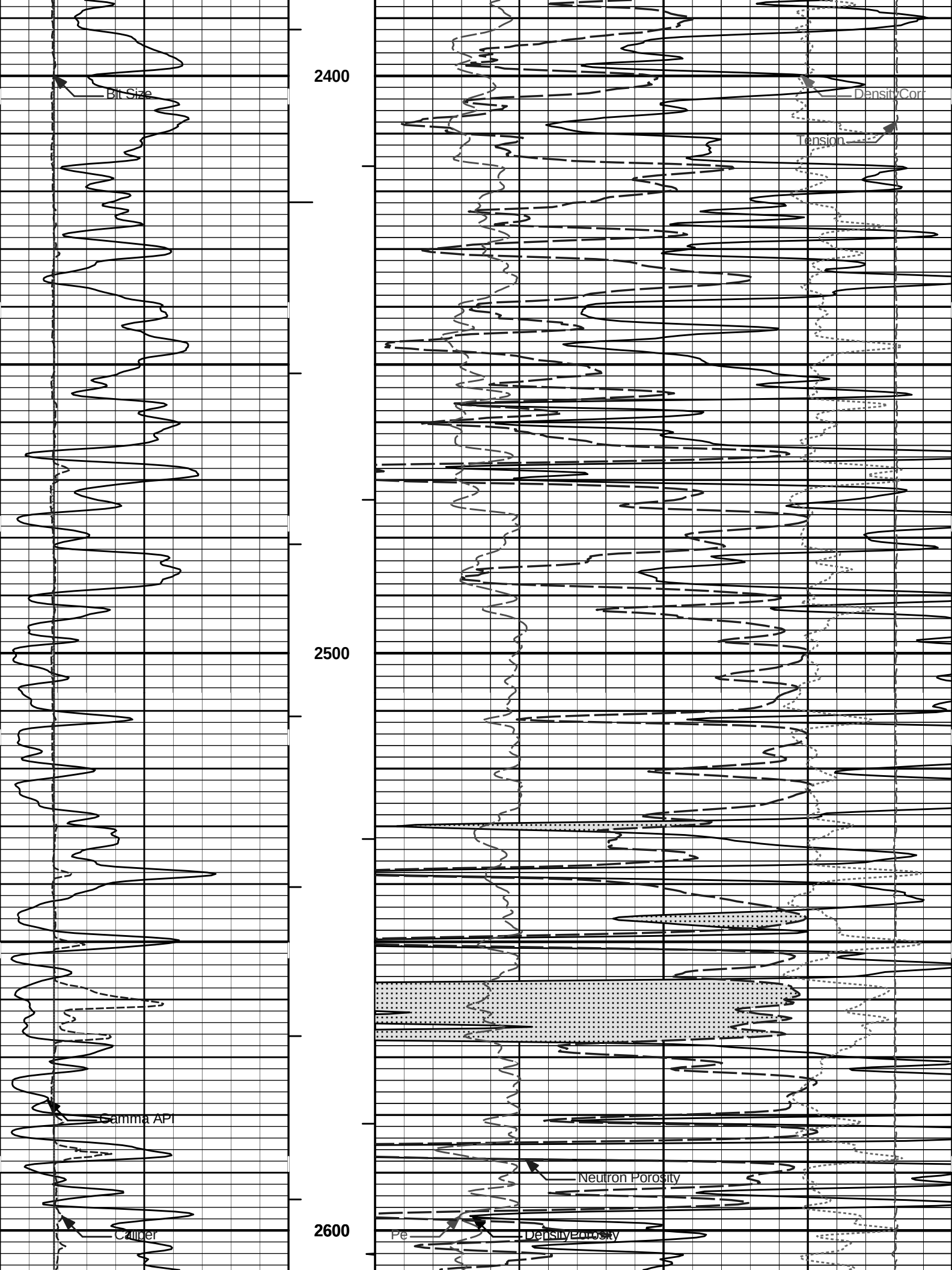
Plot Time: 24-May-11 14:41:30

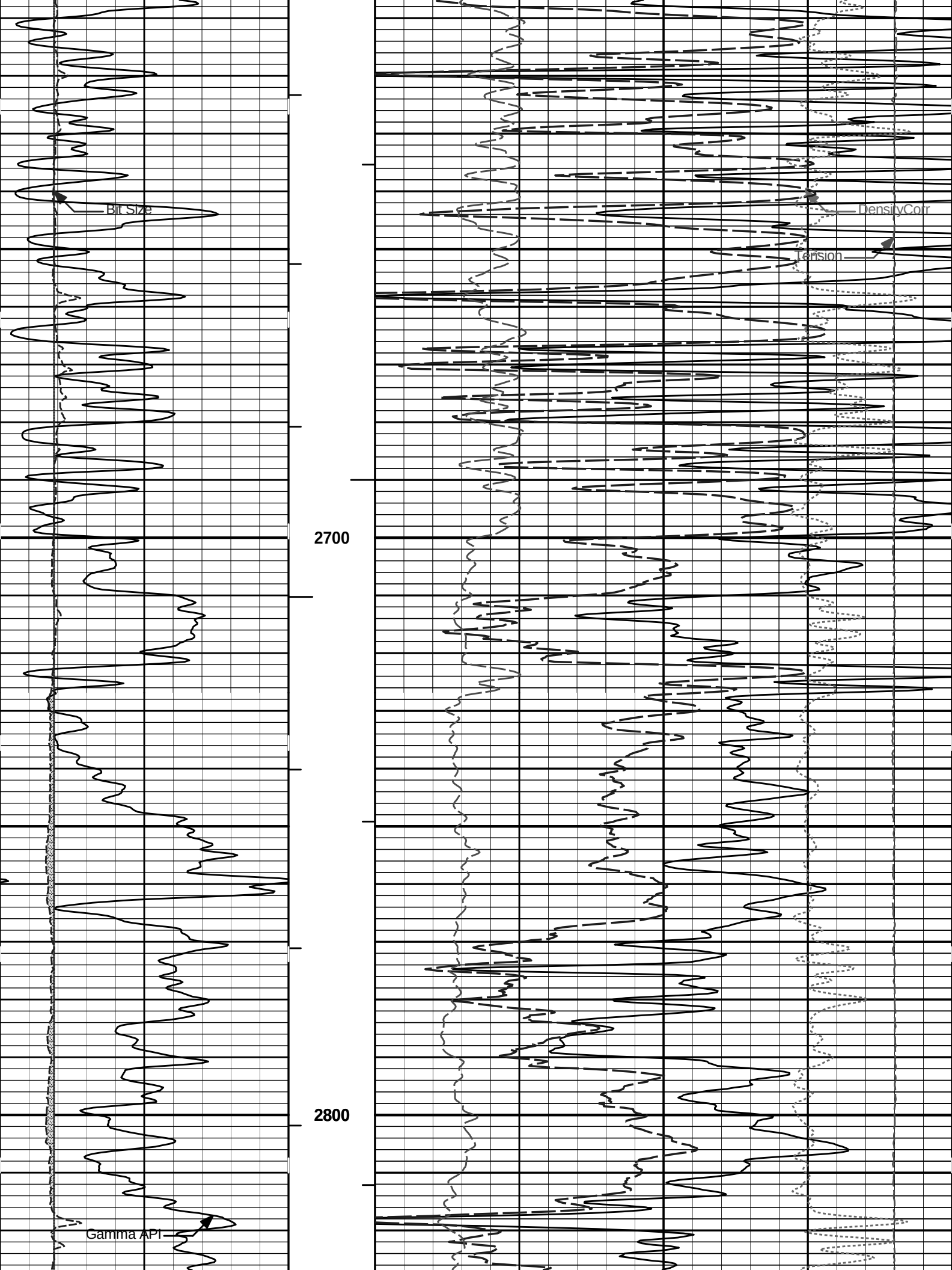
Plot Range: 2350 ft to 5761.67 ft

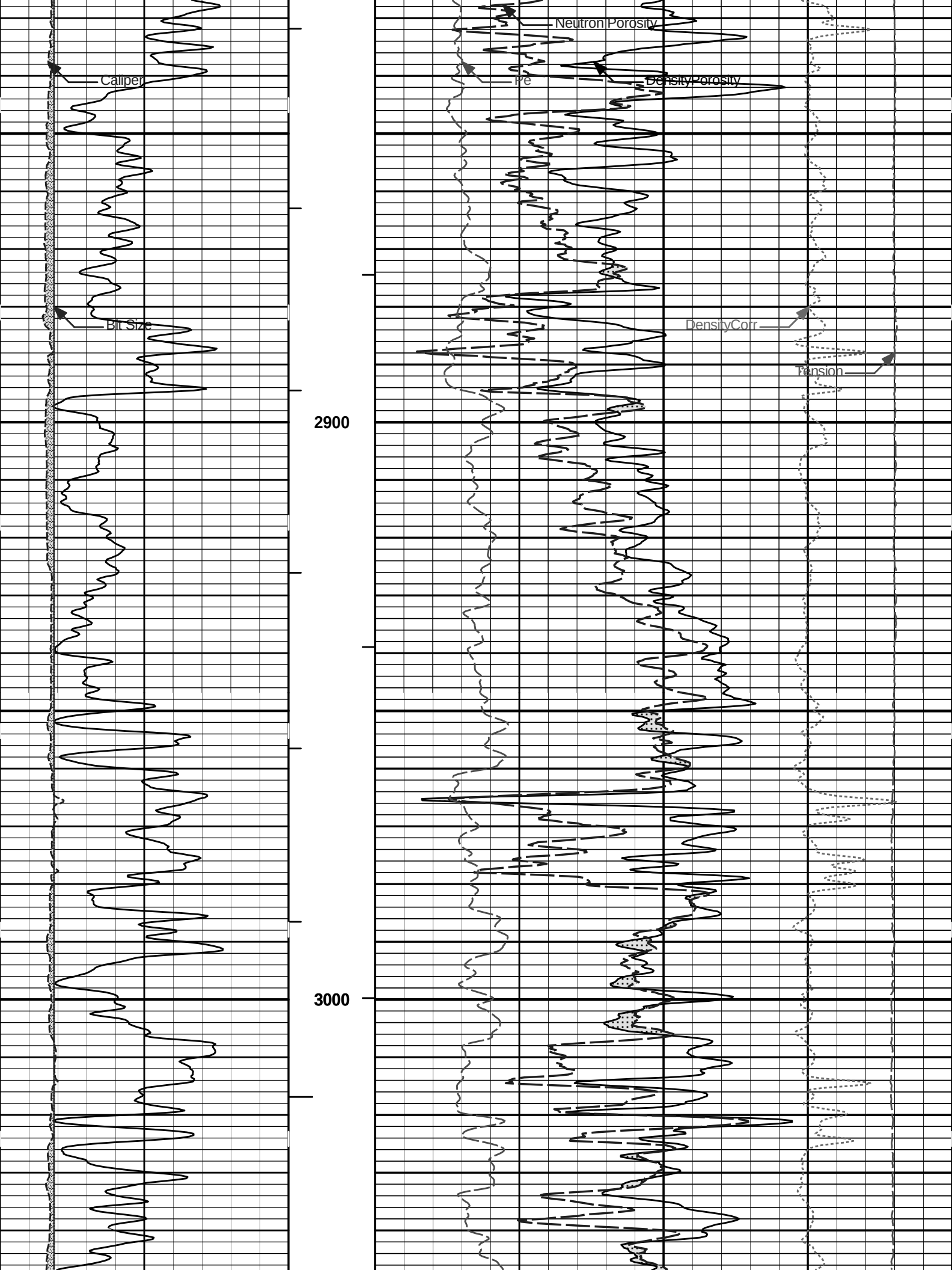
Data: OBRATE_33_1\Well Based\DAQ-0001-003\
Plot File: \\PORO\EOG_Poro_IQ_5_MAIN_LIB

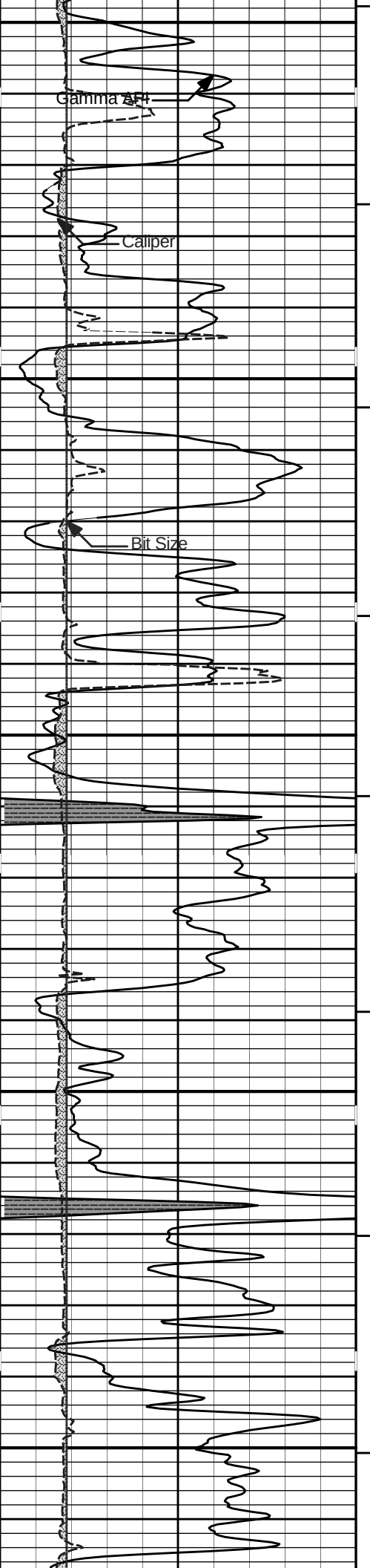
5 INCH MAIN LOG

6	Bit Size	16
inches		Tension Pull
		CROSSOVER
SHALE		Tension Pull 10 0
0	Gamma API	150
api		BHVT
6	Caliper	16
inches		AHVT
MUDCAKE		1 : 240 ft



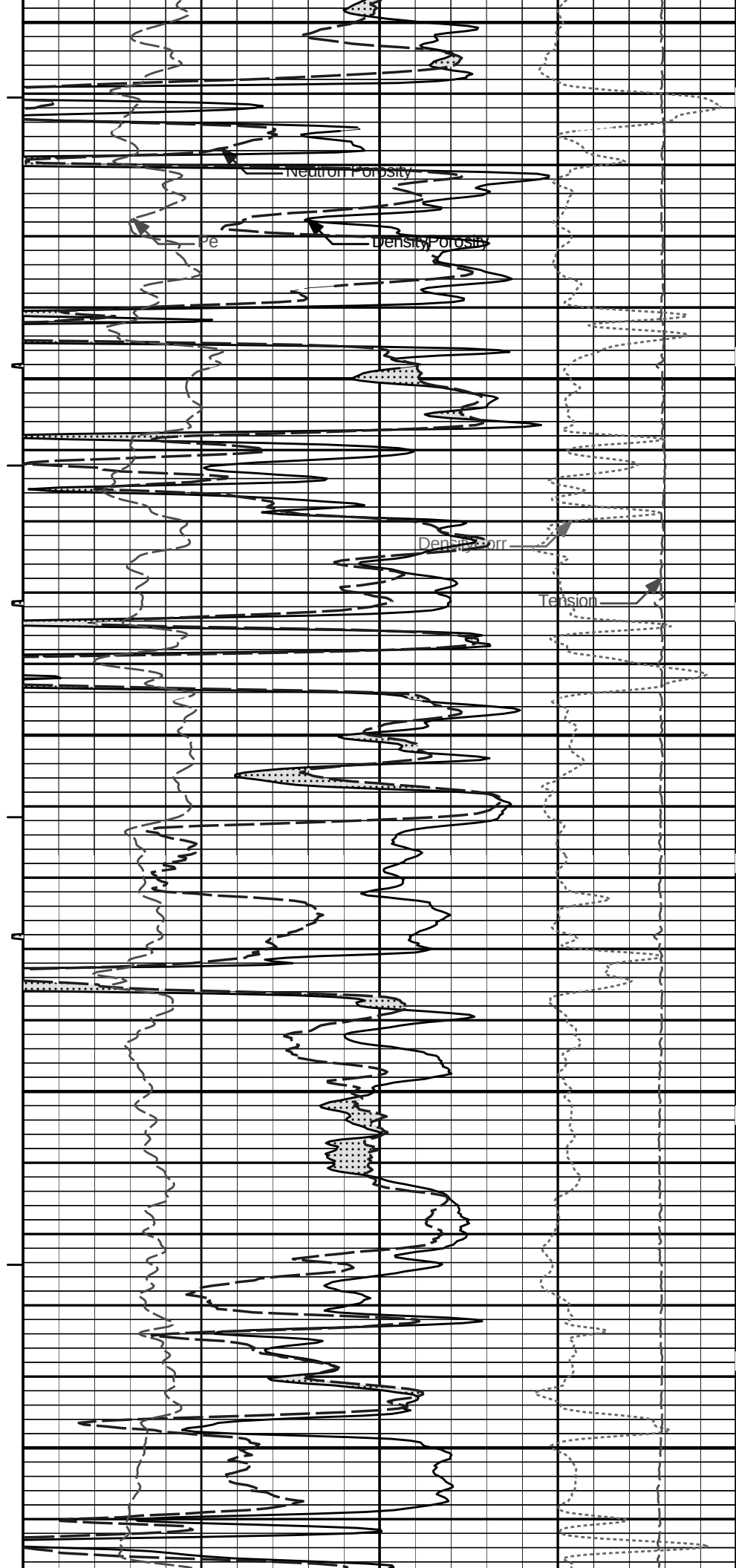


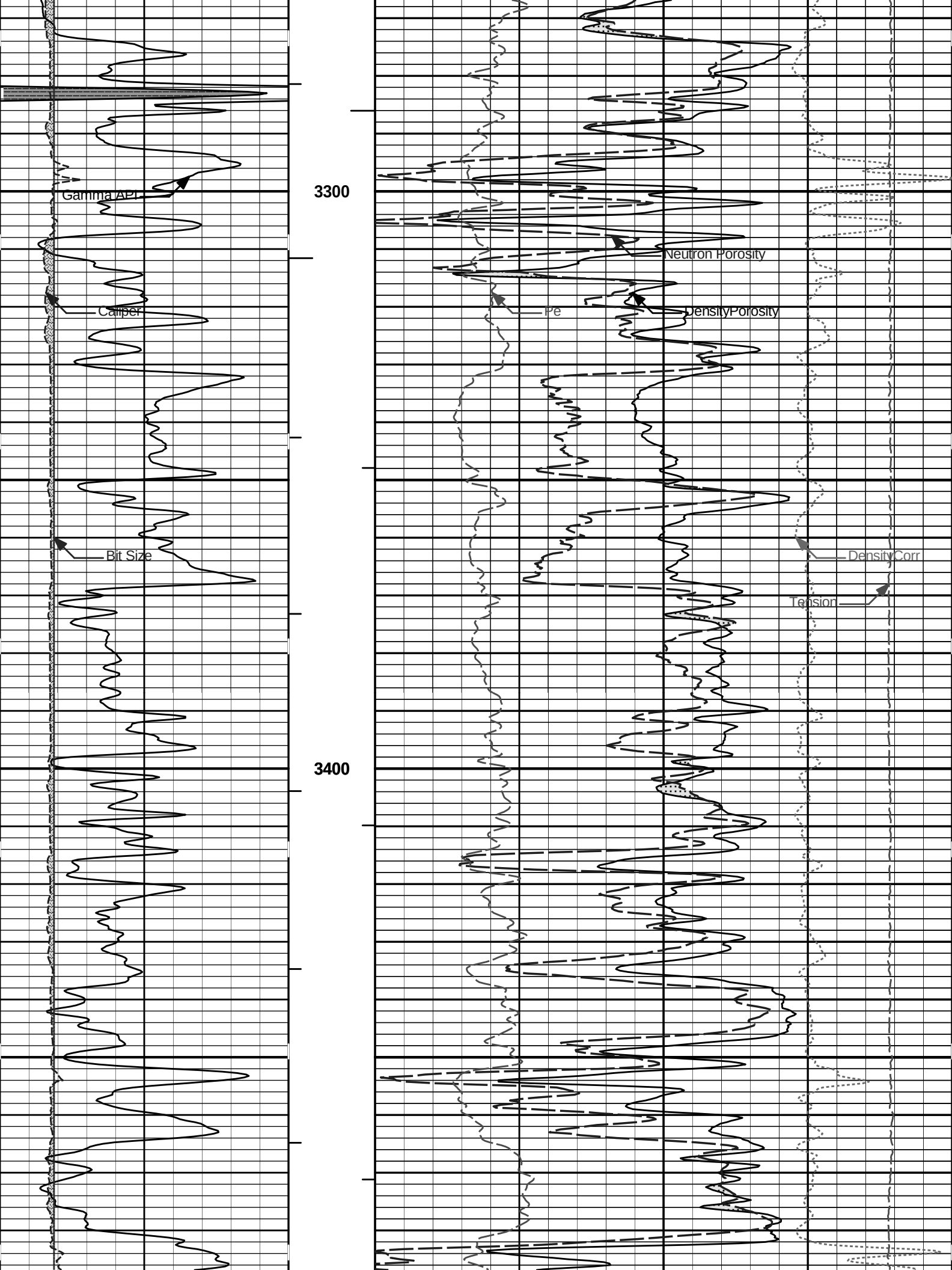


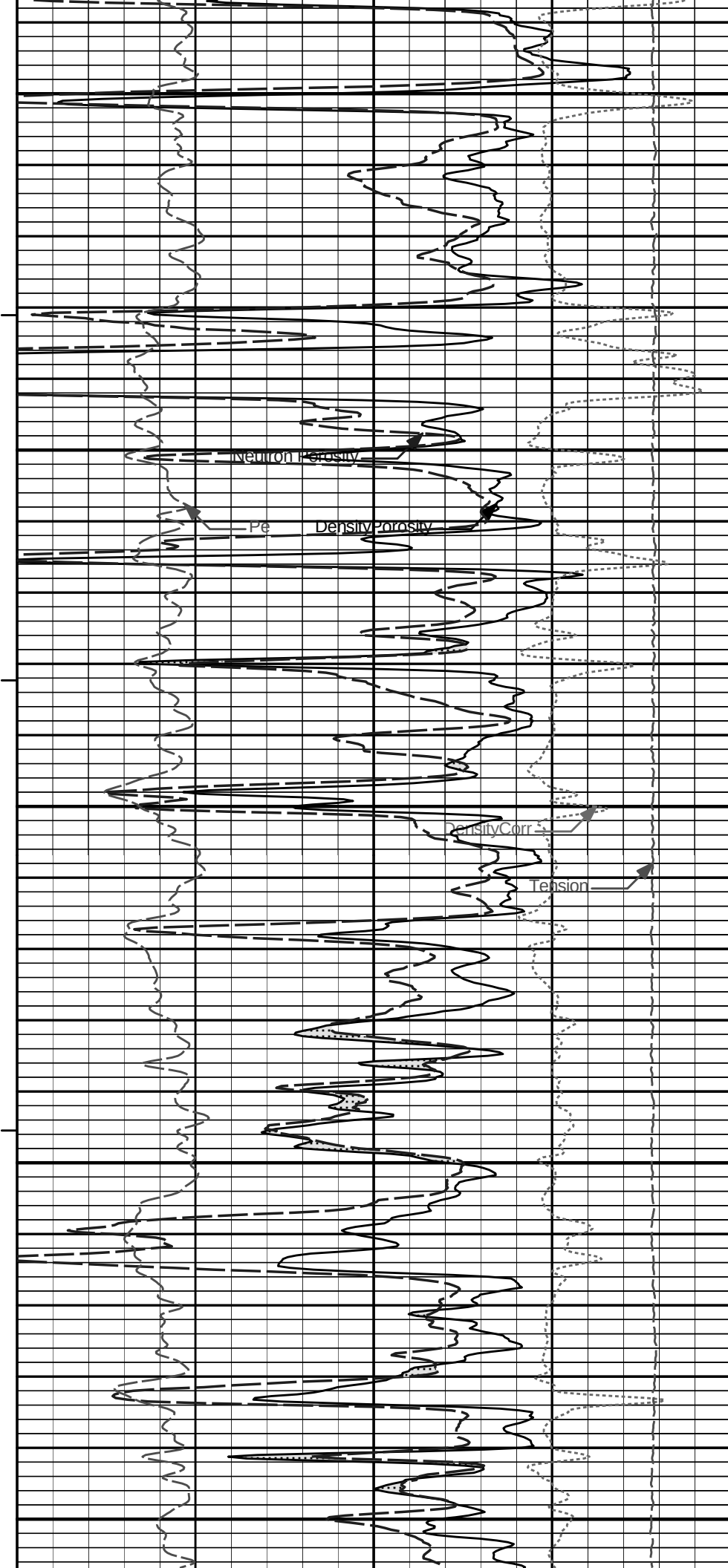
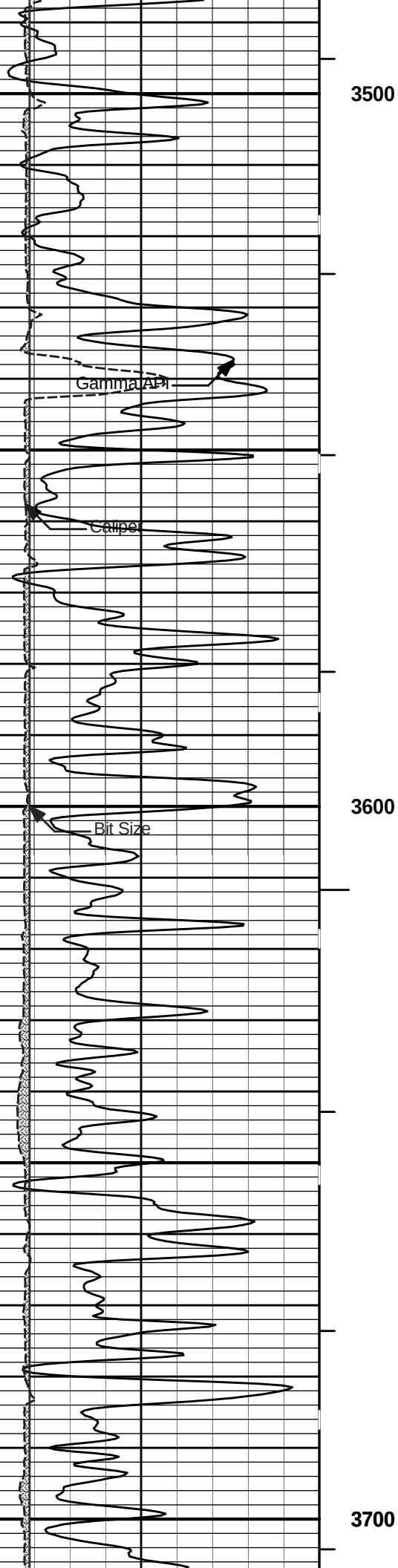


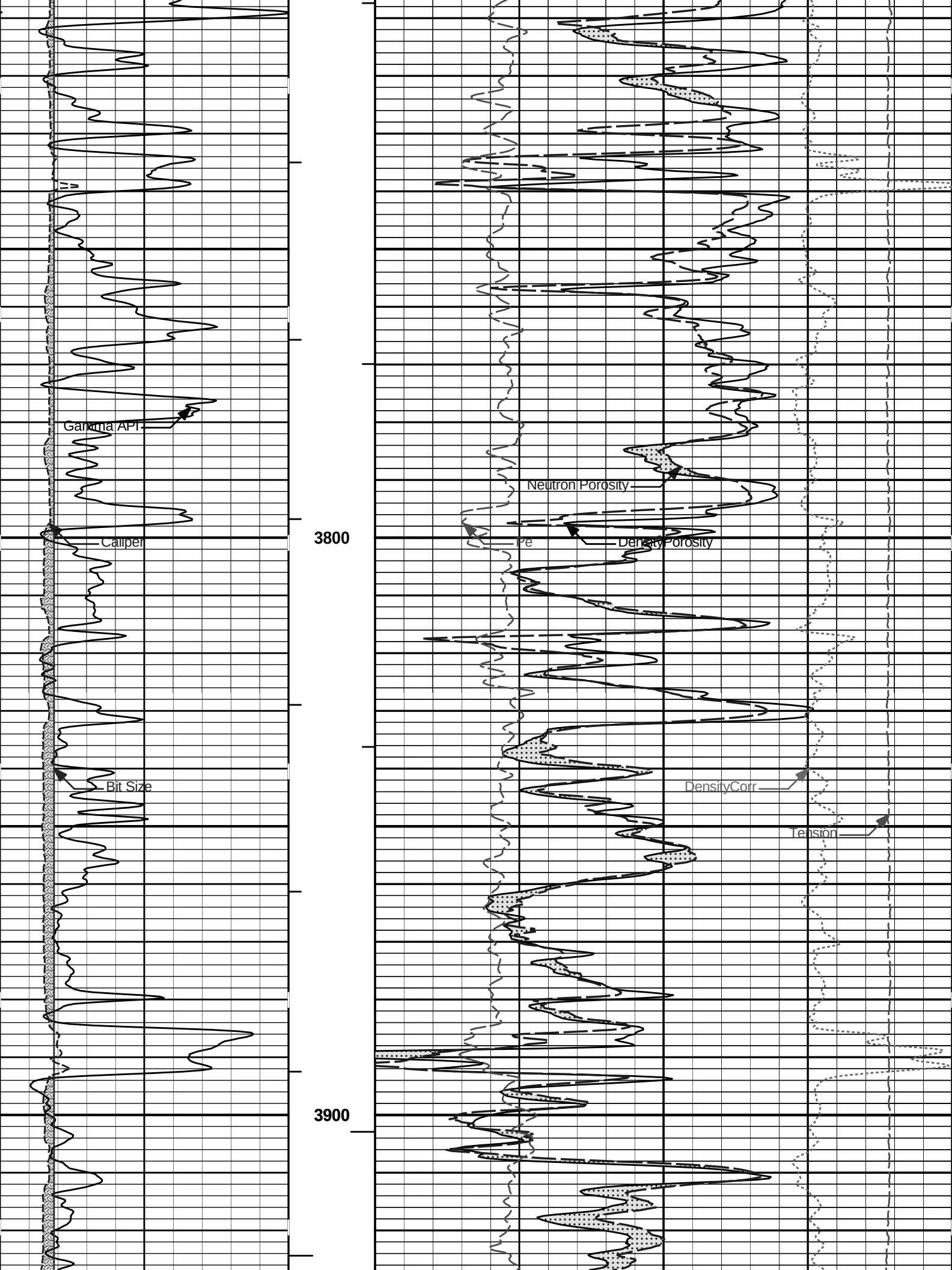
3100

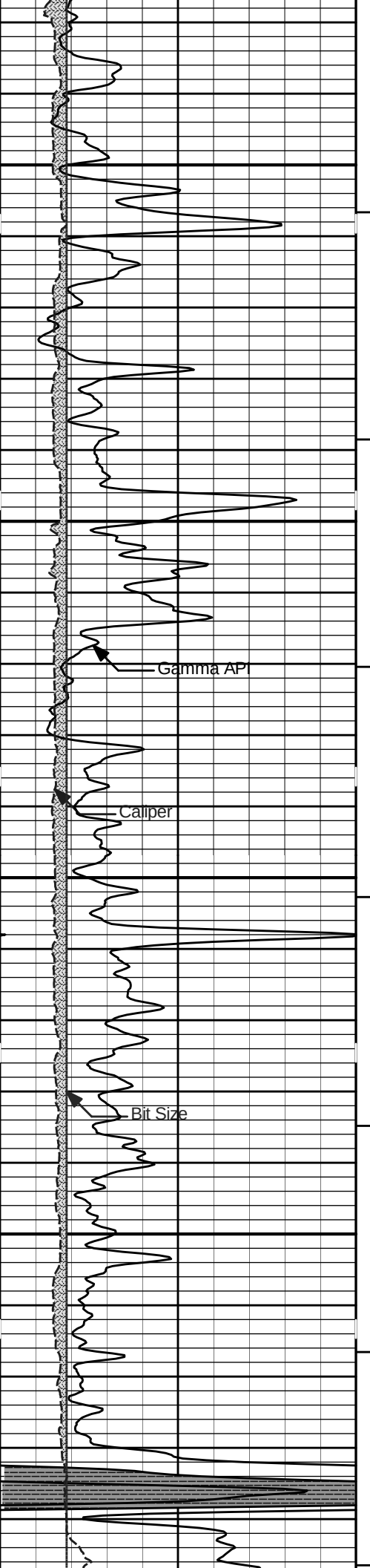
3200





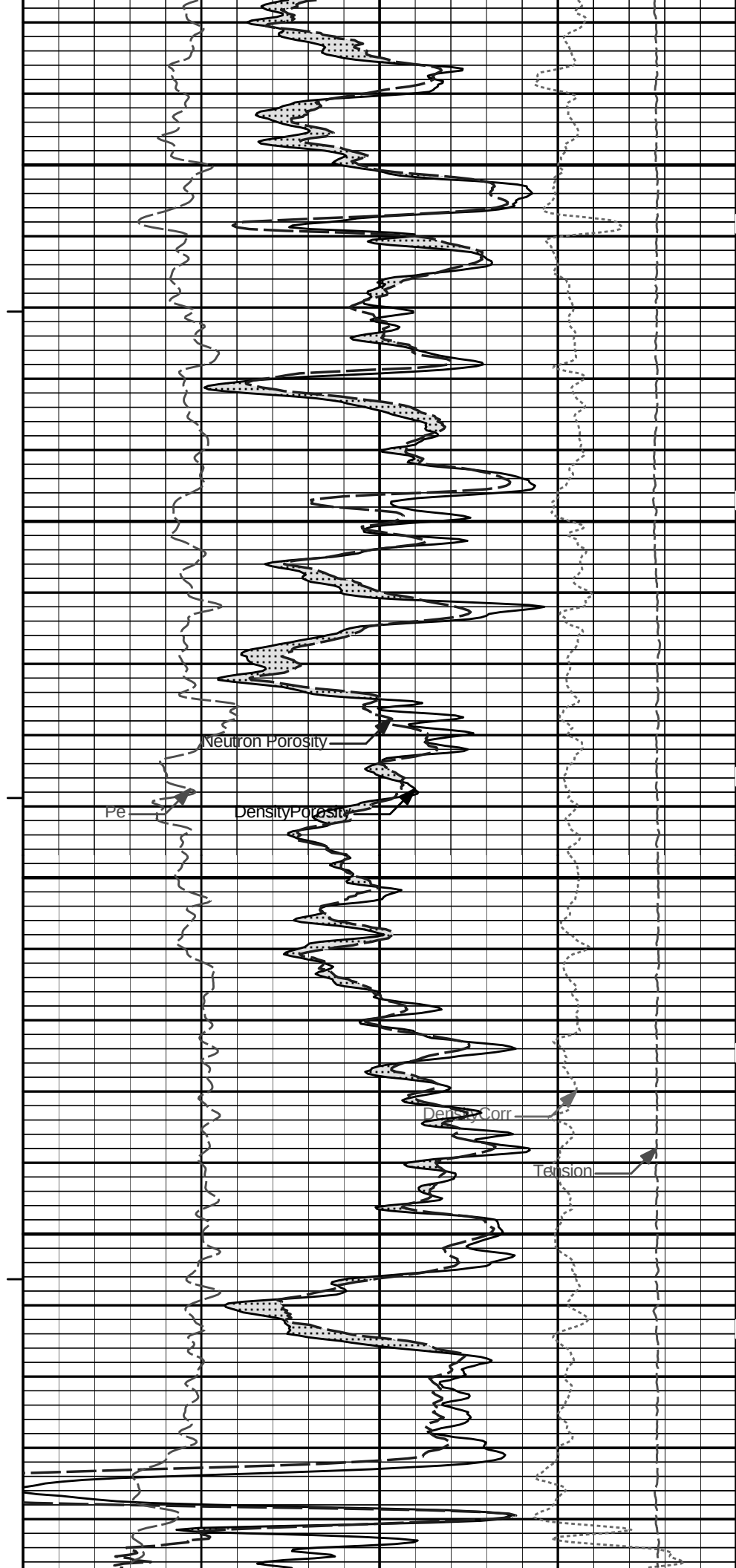


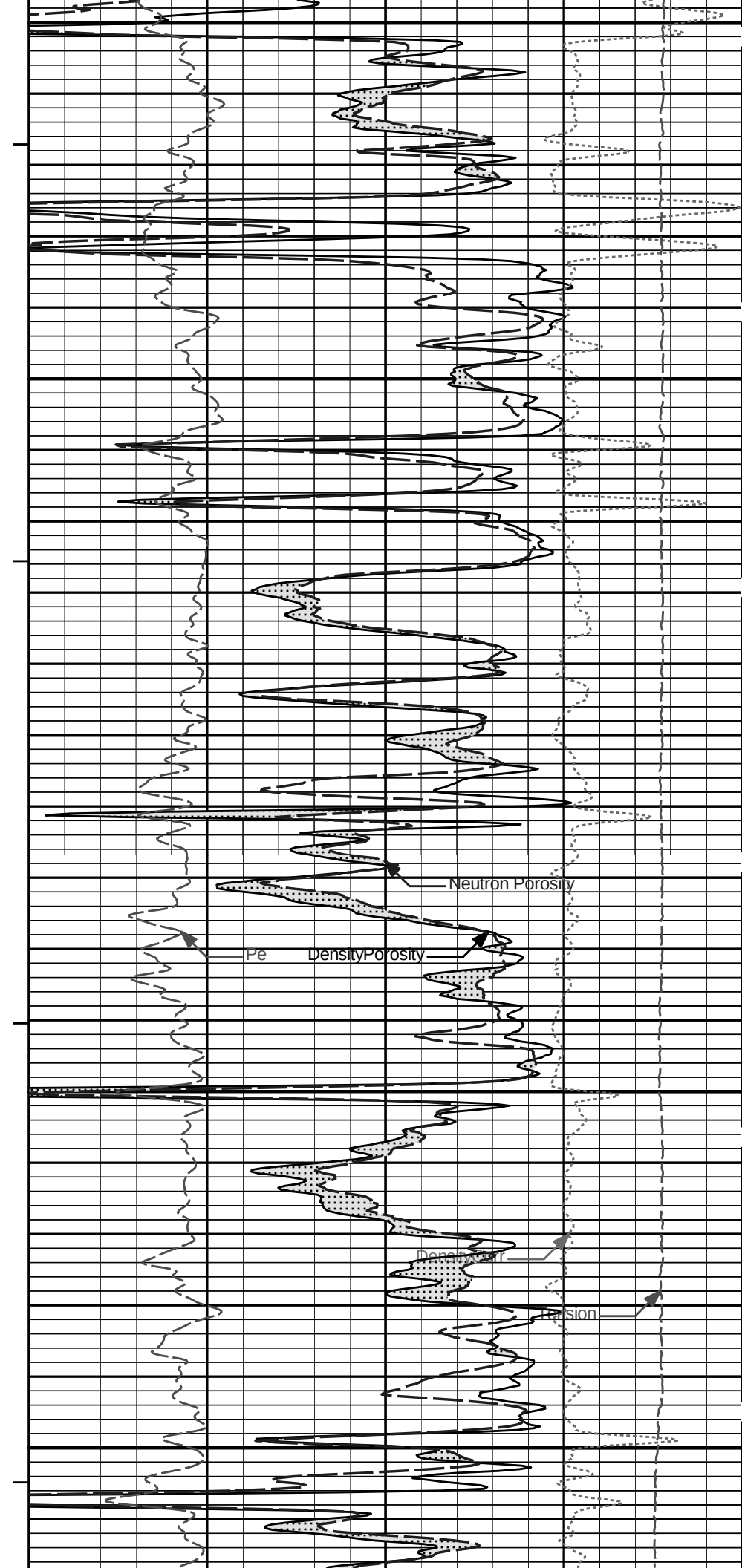
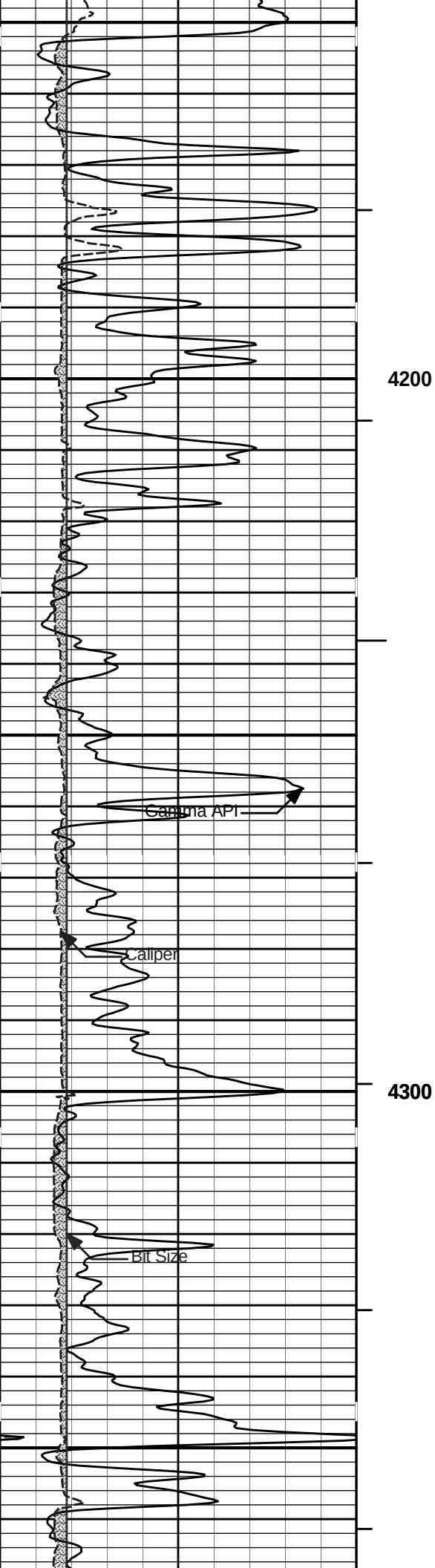


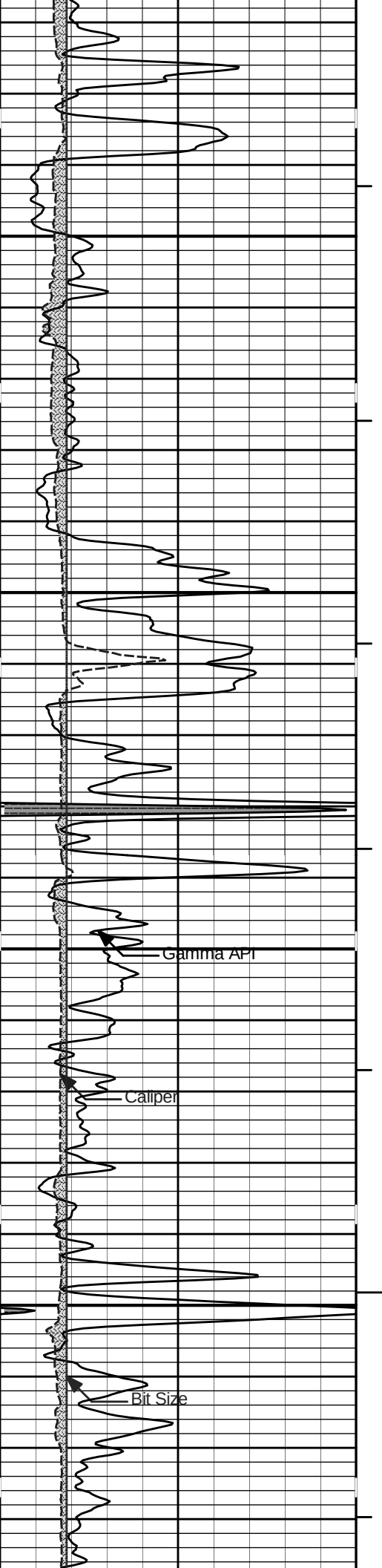


4000

4100

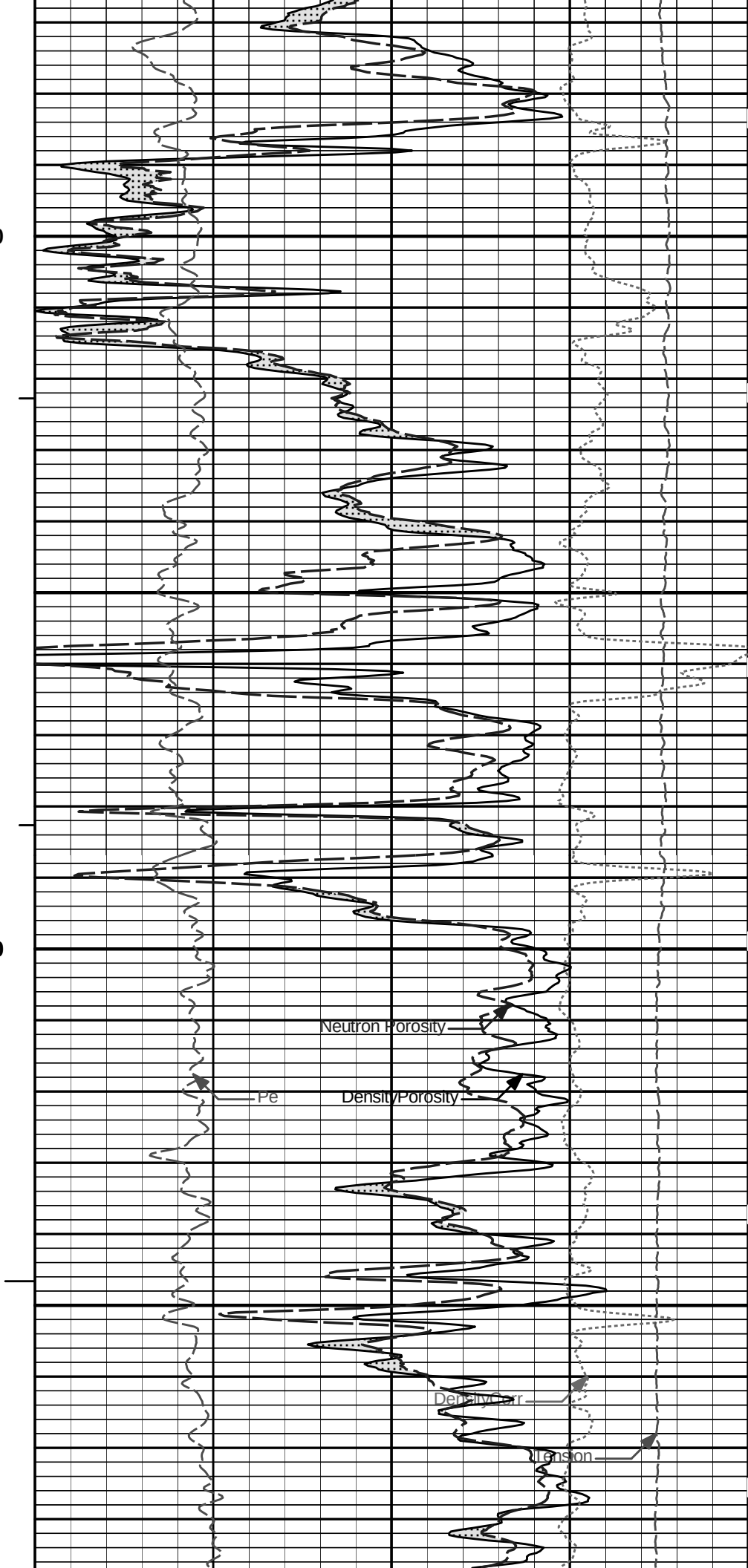


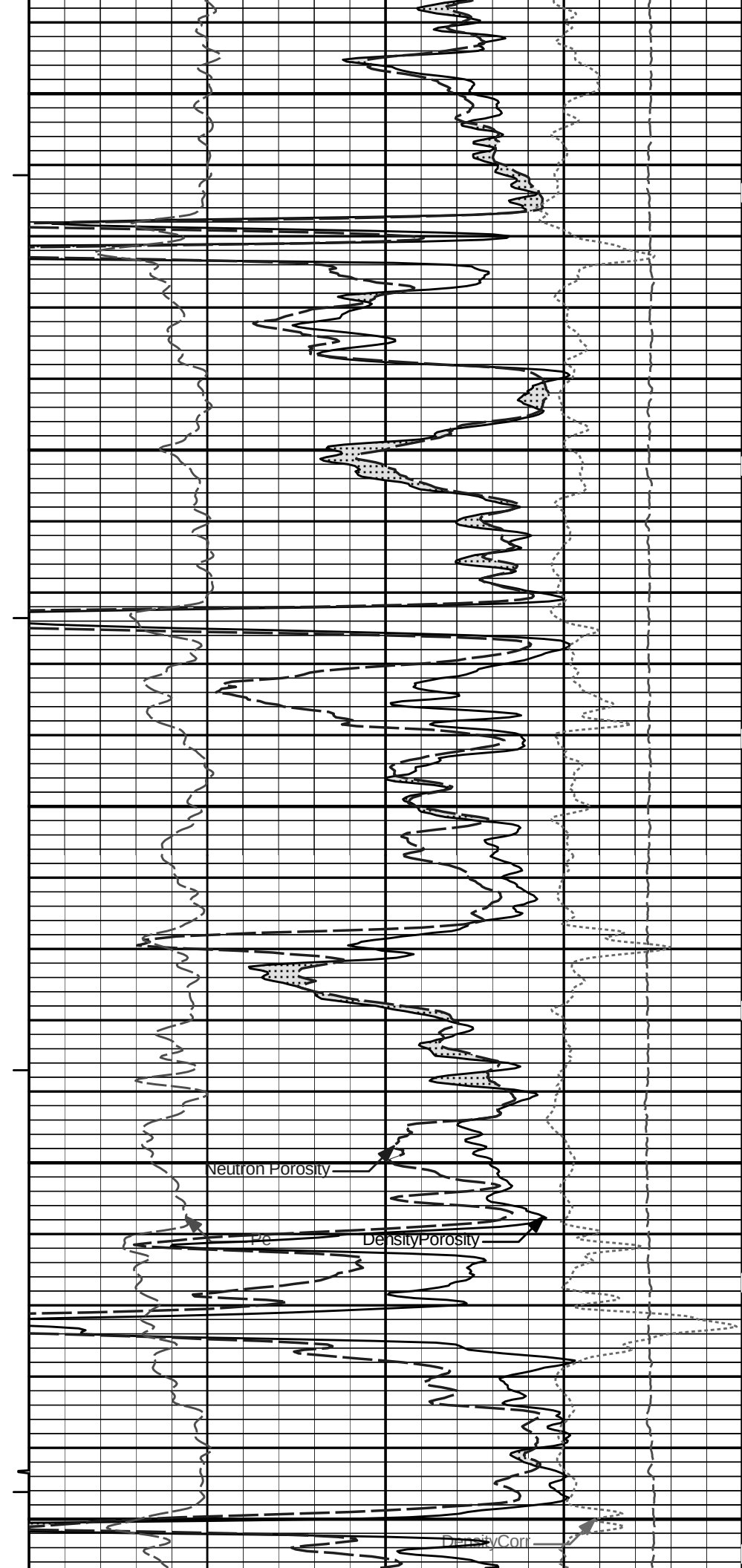
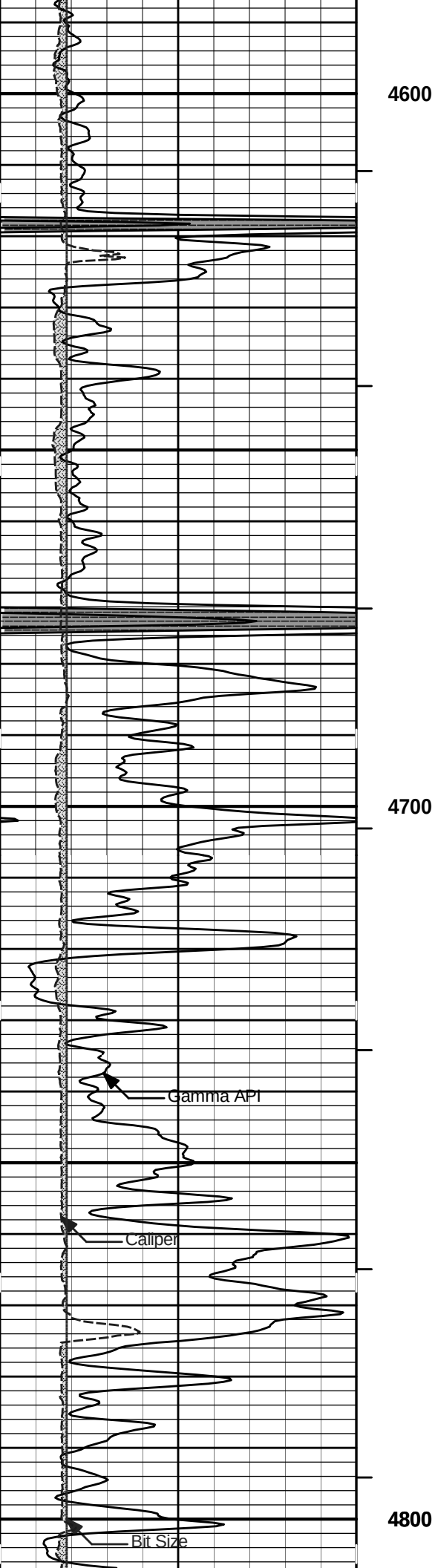


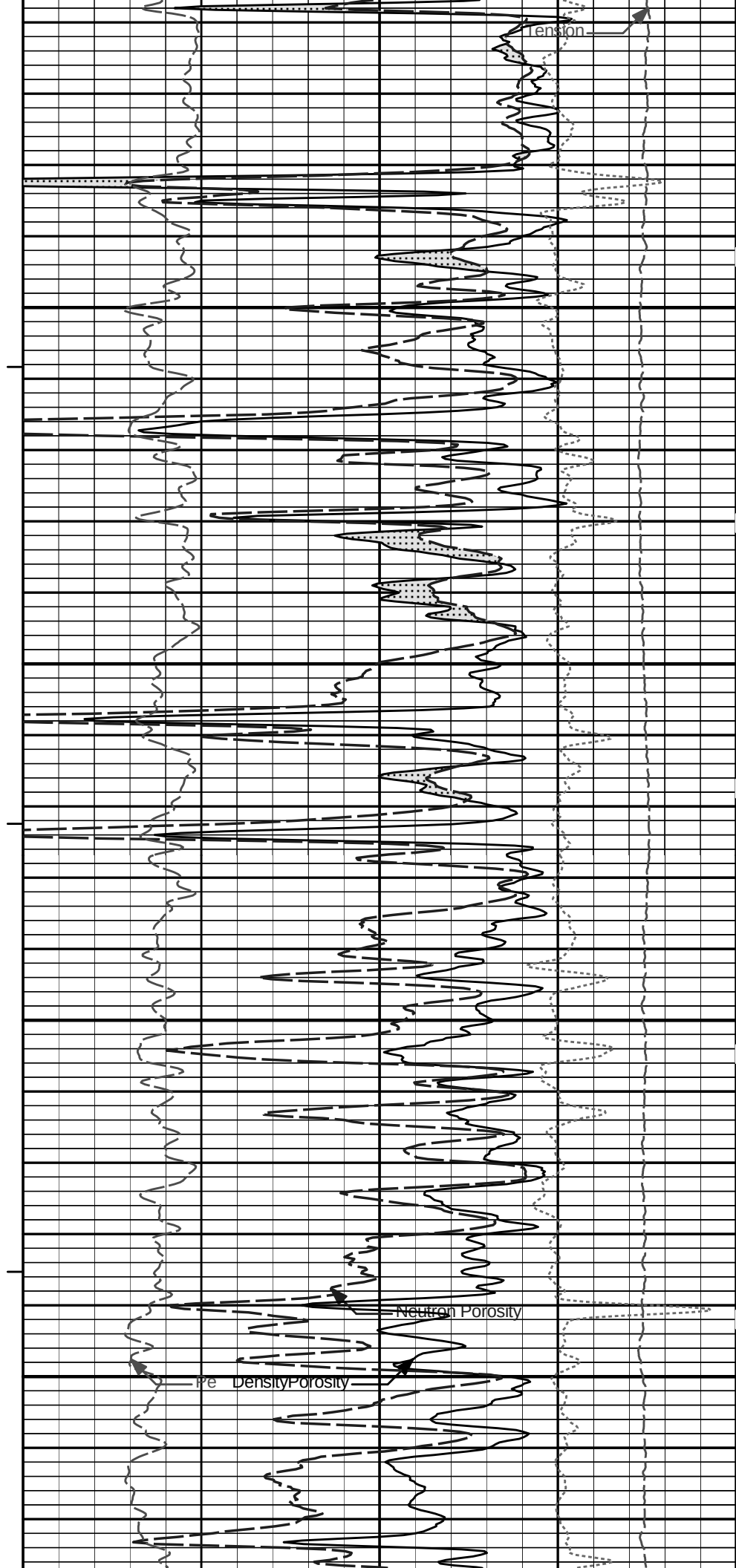
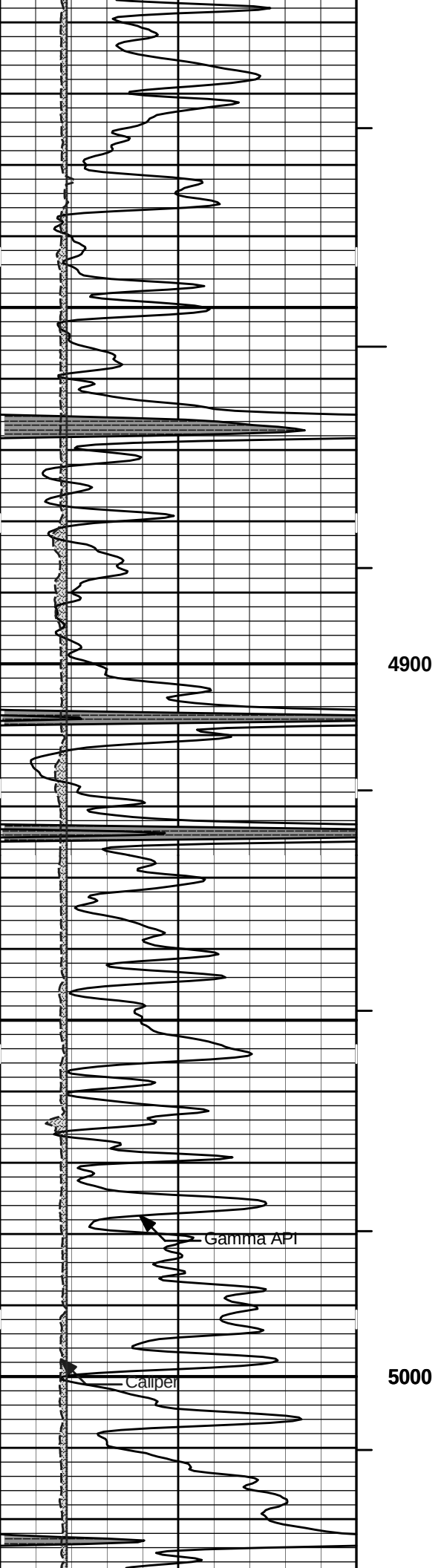


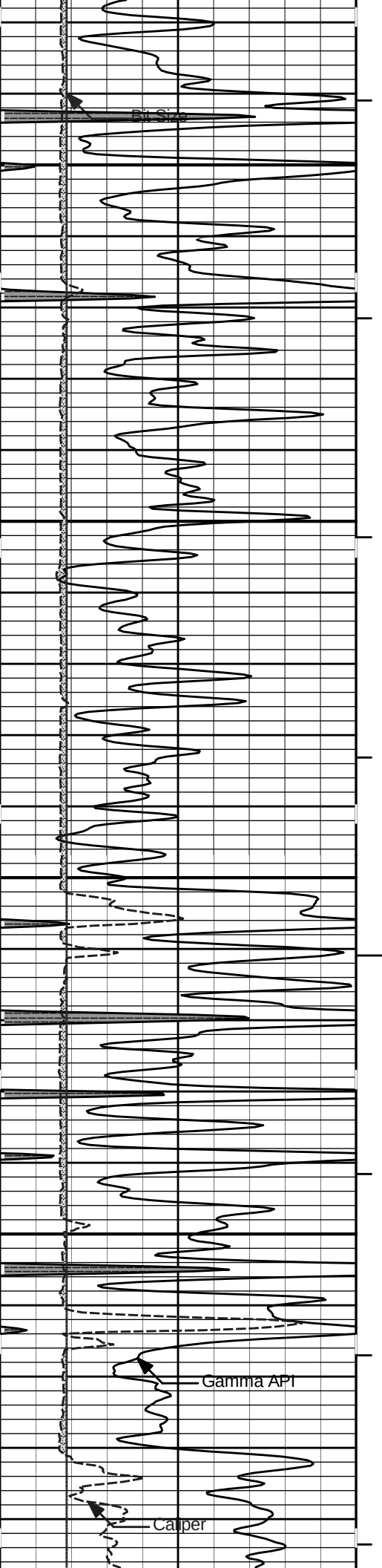
4400

4500



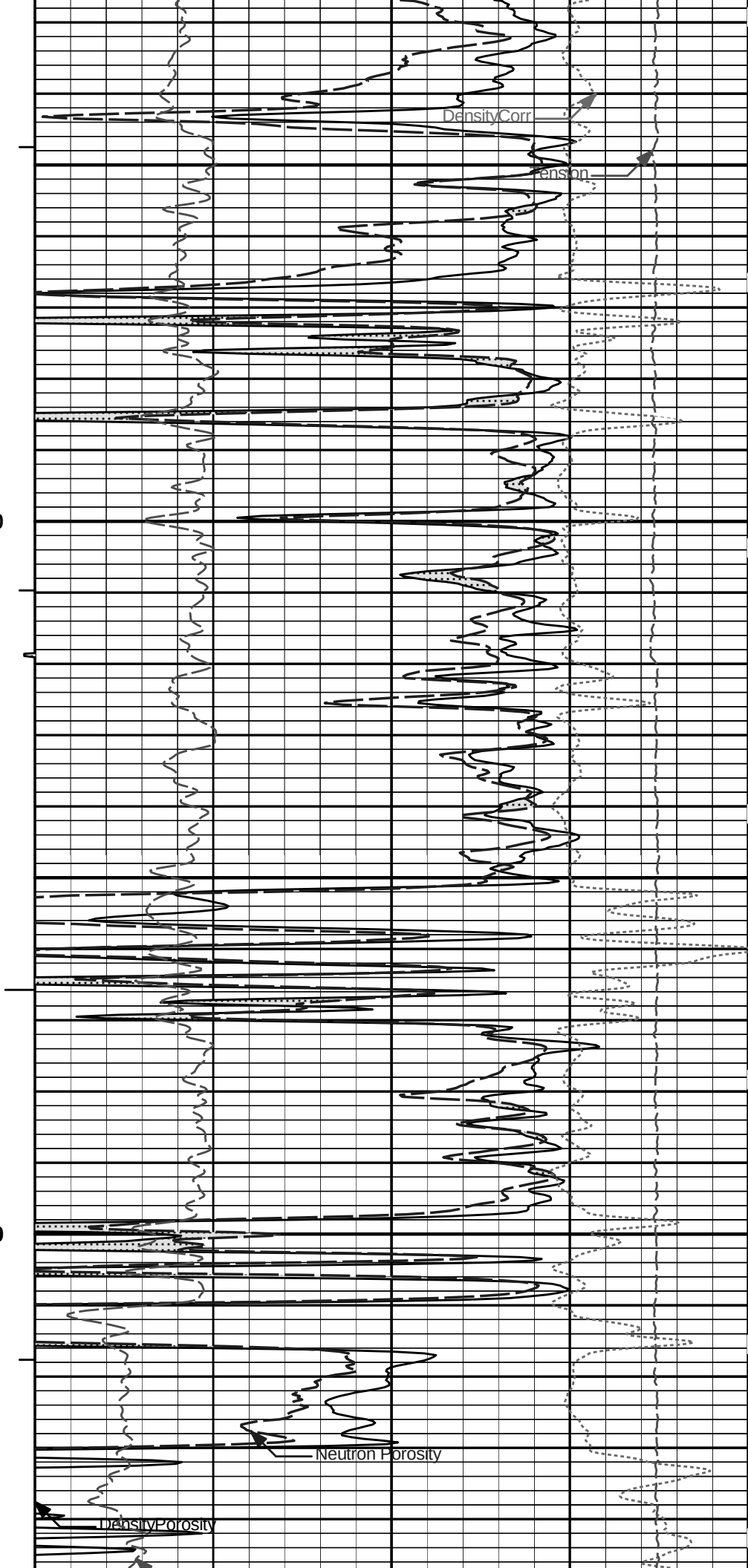






5100

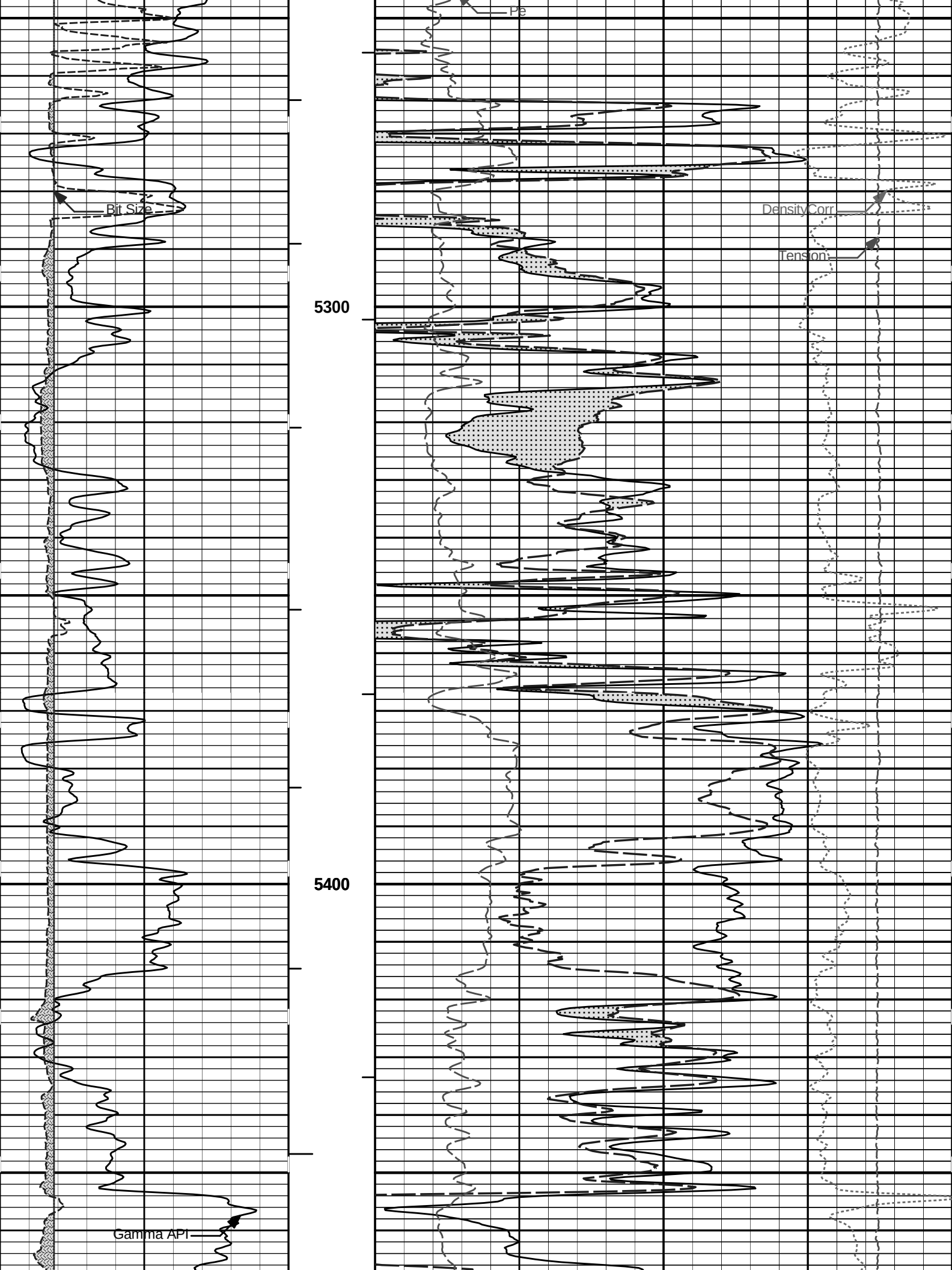
5200

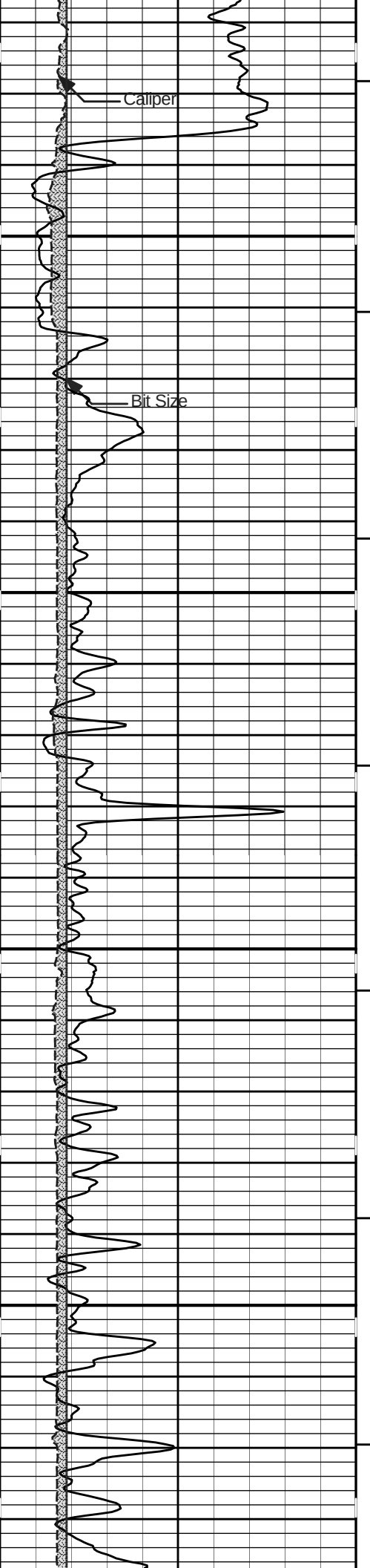


DensityCorr

Neutron Porosity

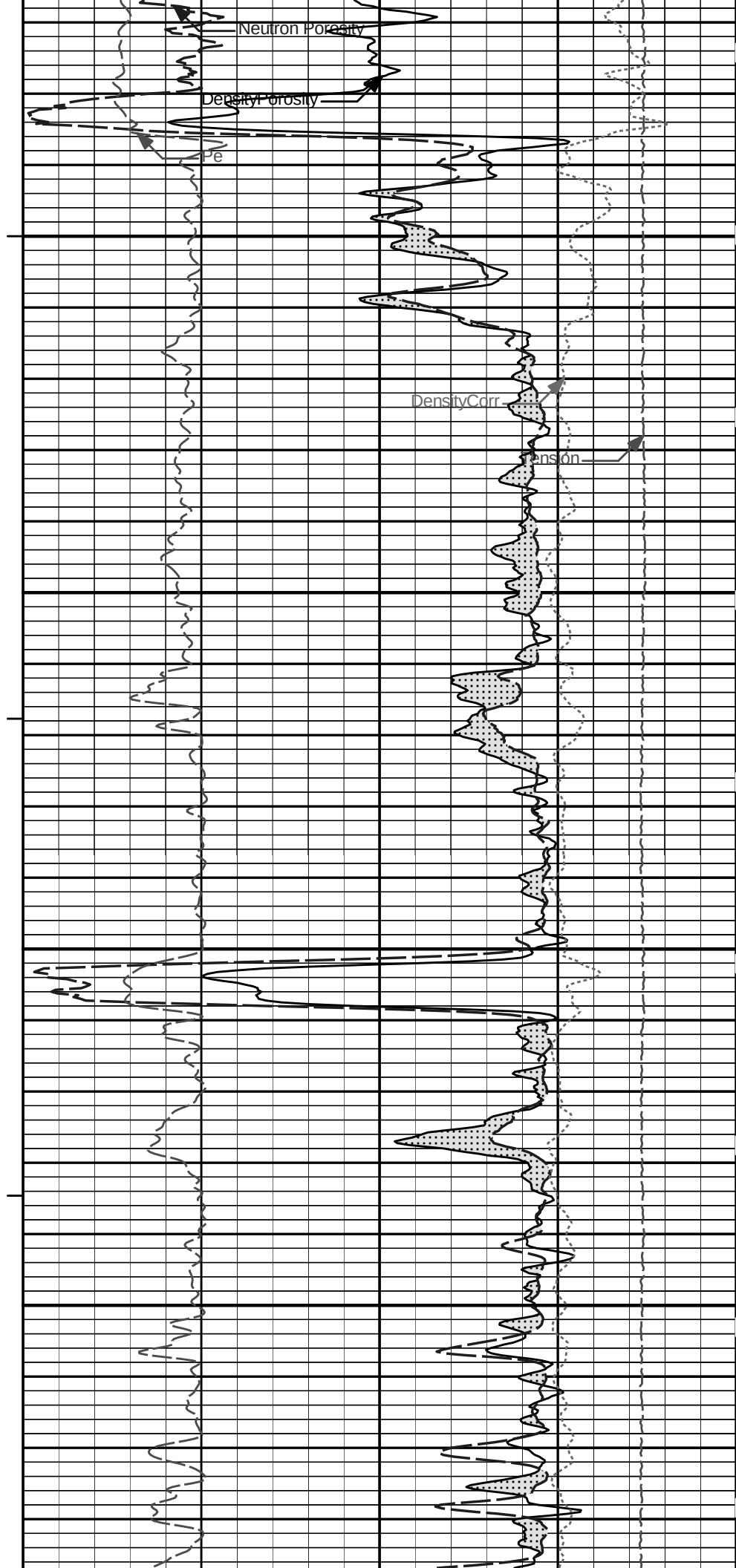
Density Porosity

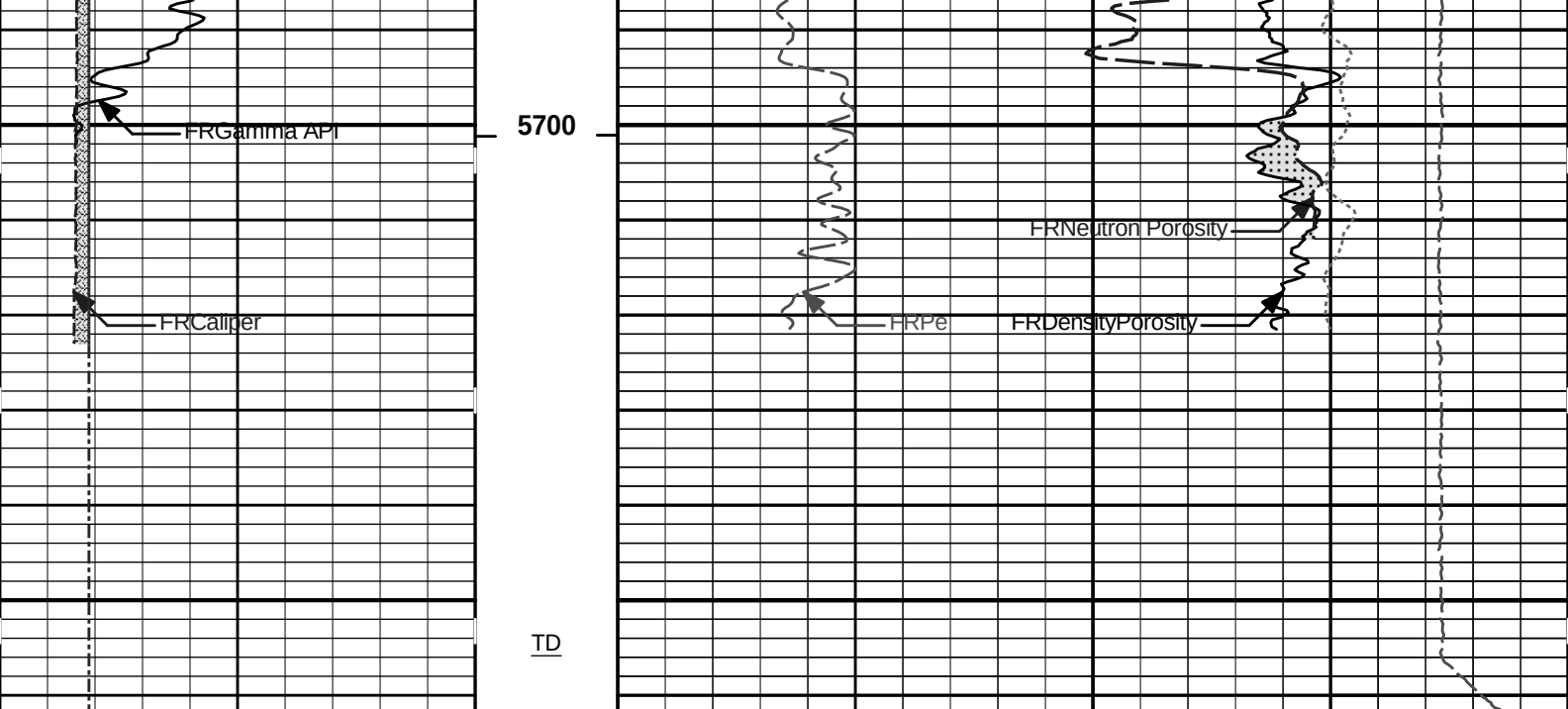




5500

5600





		1 : 240	0	Pe	10	-0.25	DensityCorr	0.25
MUDCAKE		ft					gram per cc	
		AHVT				15K	Tension	0
6 Caliper 16							pounds	
inches		BHVT	30	DensityPorosity				-10
0 Gamma API 150							%	
api		Tension Pull	30	Neutron Porosity				-10
		10 0					%	
SHALE								
6 Bit Size 16		Tension Pull					CROSSOVER	
inches								

HALLIBURTON

Plot Time: 24-May-11 14:42:14
 Plot Range: 2350 ft to 5761.67 ft
 Data: OBRATE_33_1\Well Based\DAQ-0001-003\
 Plot File: \\POROIEOG_Poro_IQ_5_MAIN_LIB

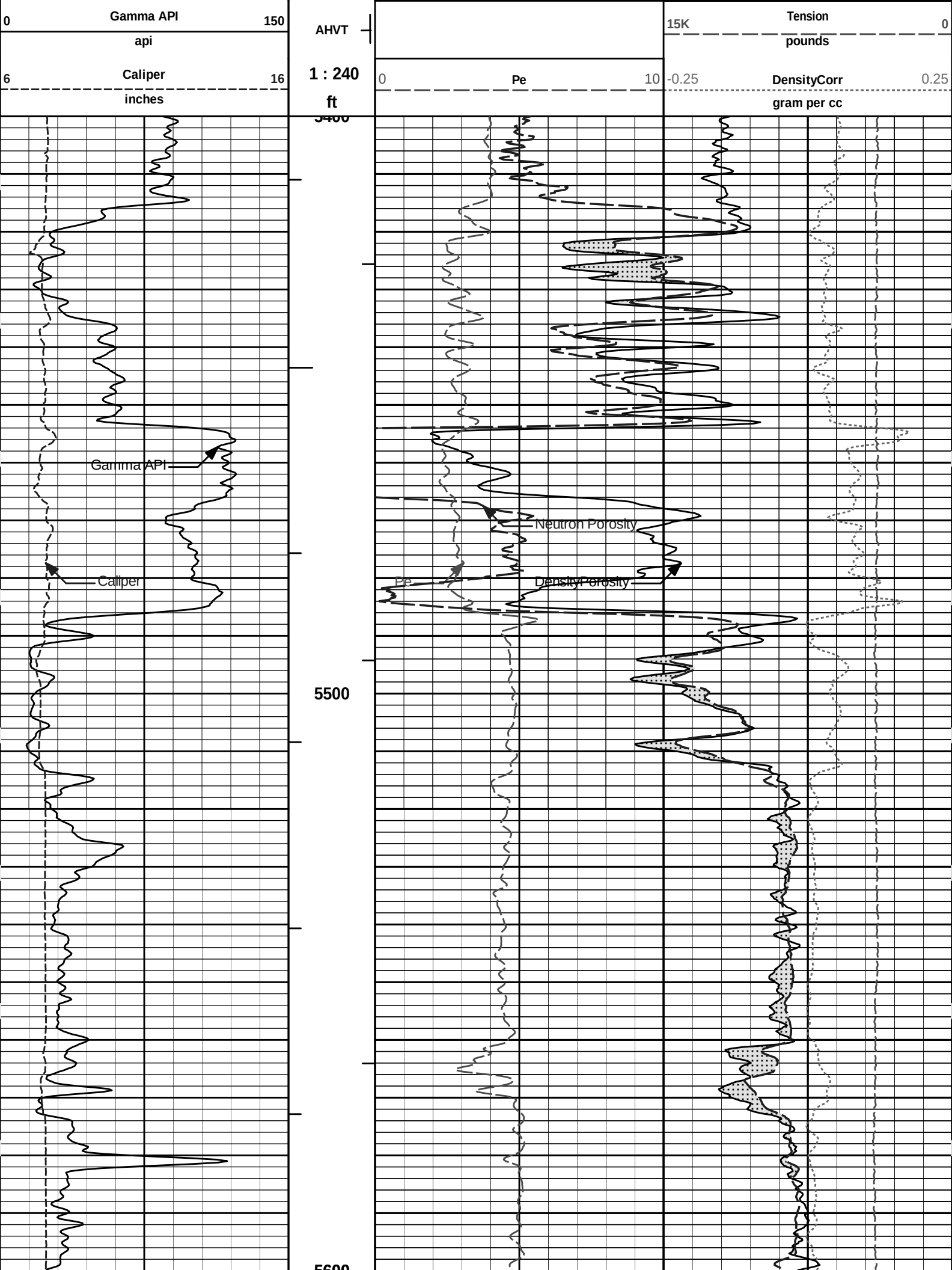
5 INCH MAIN LOG

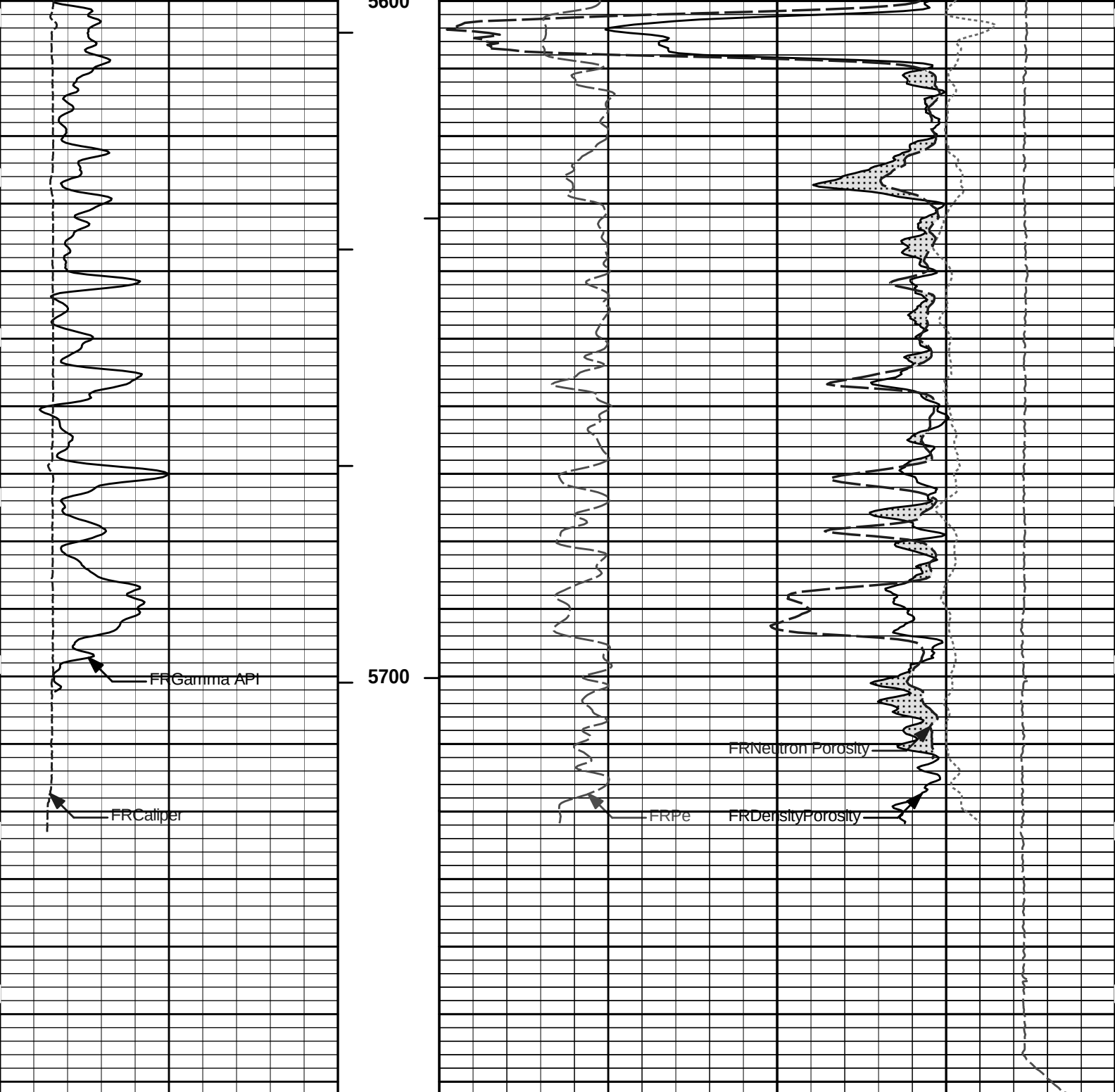
HALLIBURTON

Plot Time: 24-May-11 14:42:14
 Plot Range: 5400 ft to 5761.92 ft
 Data: OBRATE_33_1\Well Based\DAQ-0001-002\
 Plot File: \\POROIEOG_Poro_5_REPEAT_IQ

REPEAT SECTION

							CROSSOVER	
			30	Neutron Porosity				-10
							%	
SHALE		BHVT	30	DensityPorosity				-10
							%	





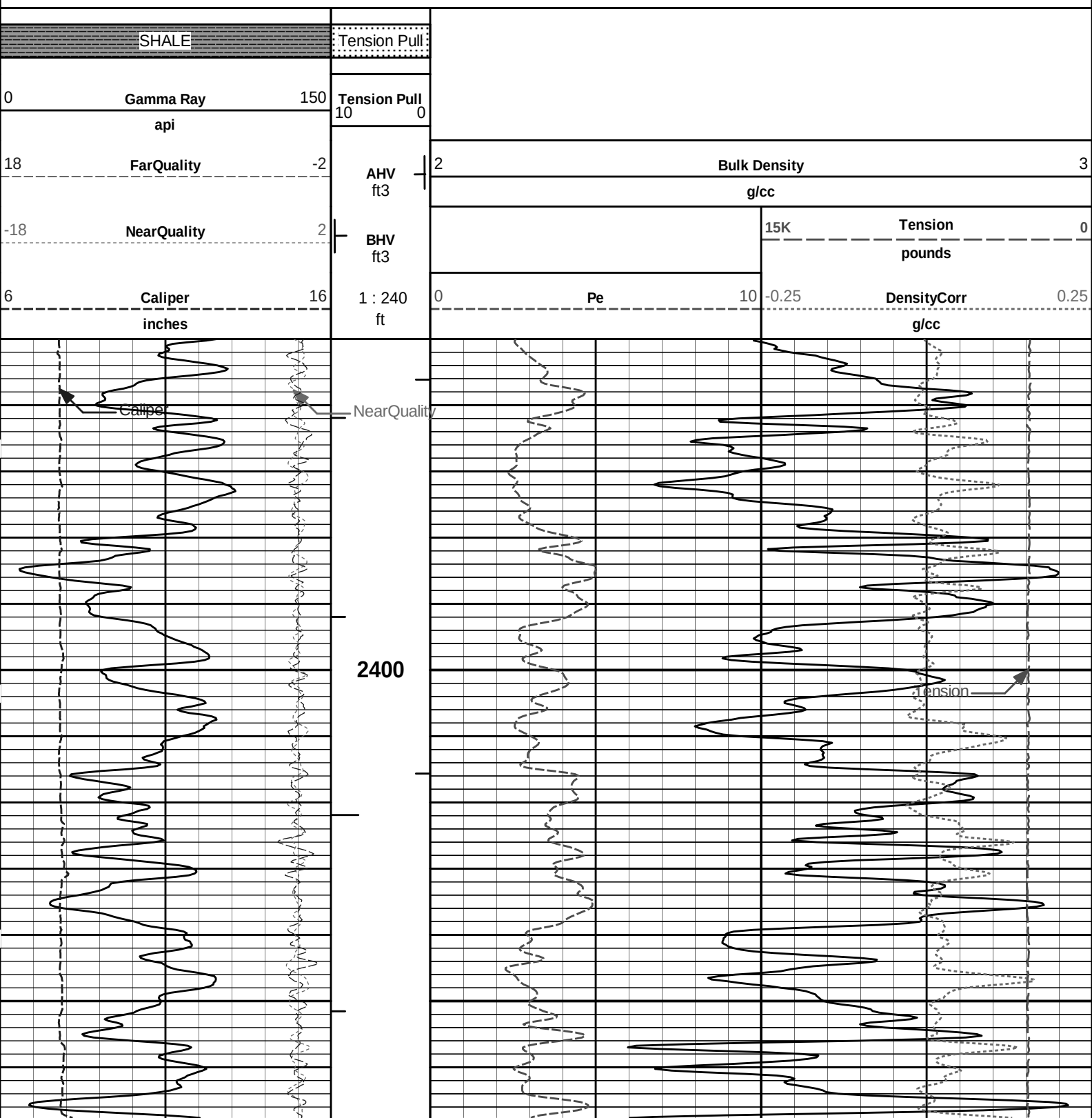
6	Caliper	16	1 : 240	0	Pe	10	-0.25	DensityCorr	0.25
	inches		ft					gram per cc	
0	Gamma API	150	AHVT				15K	Tension	0
	api							pounds	
	SHALE		BHVT	30	DensityPorosity				-10
					%				
				30	Neutron Porosity				-10
					%				
					CROSSOVER				

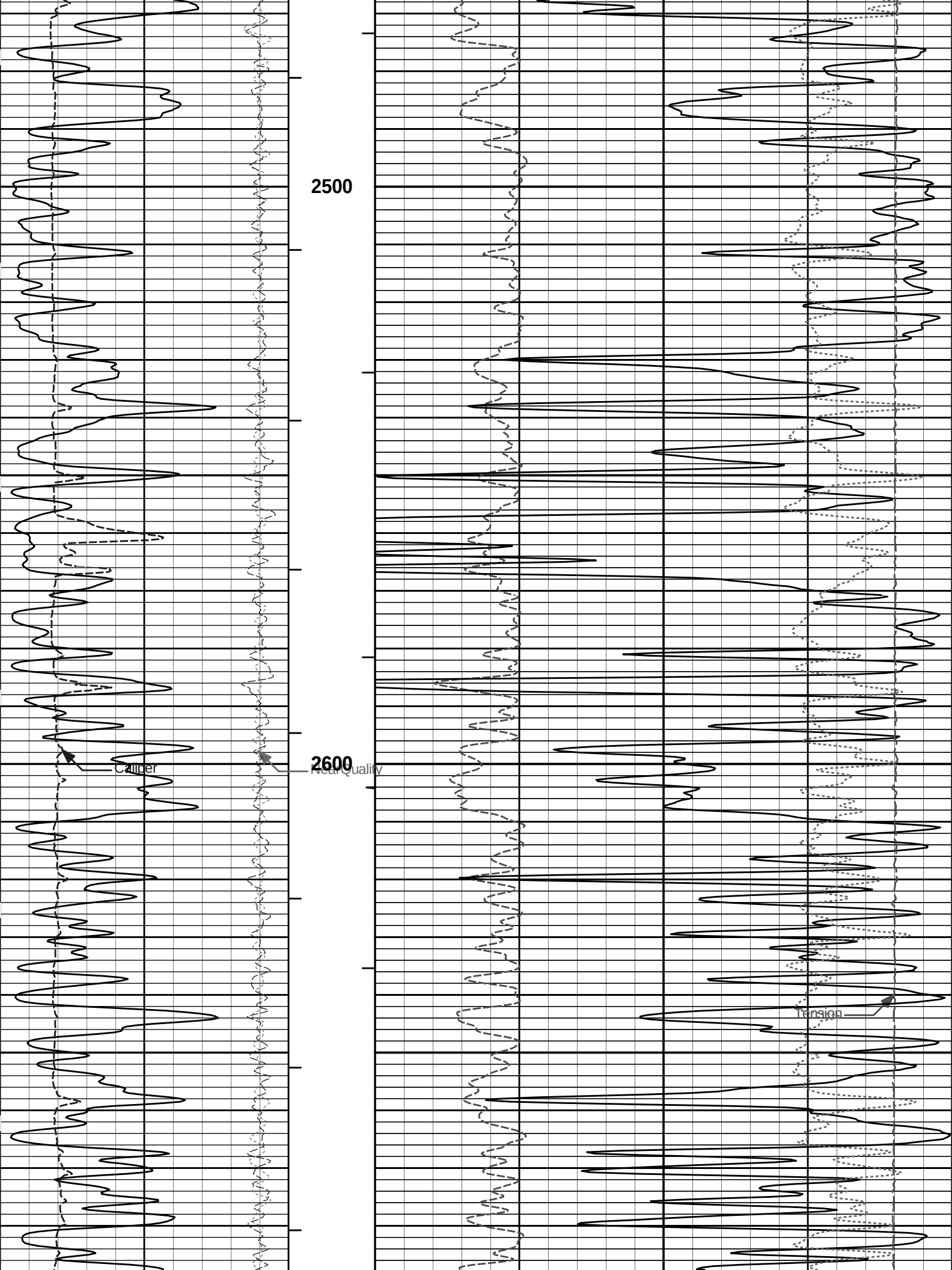
REPEAT SECTION

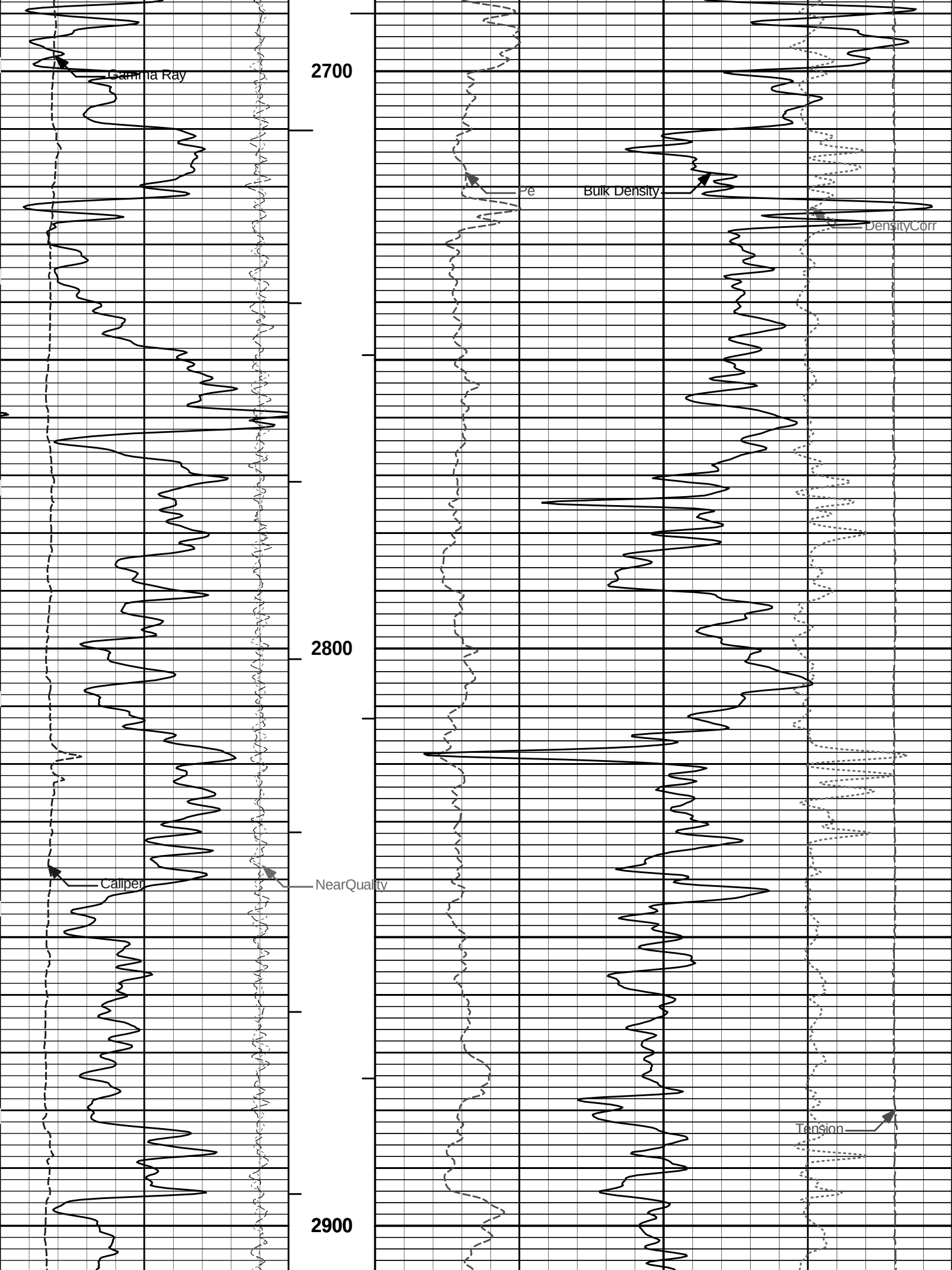
HALLIBURTON

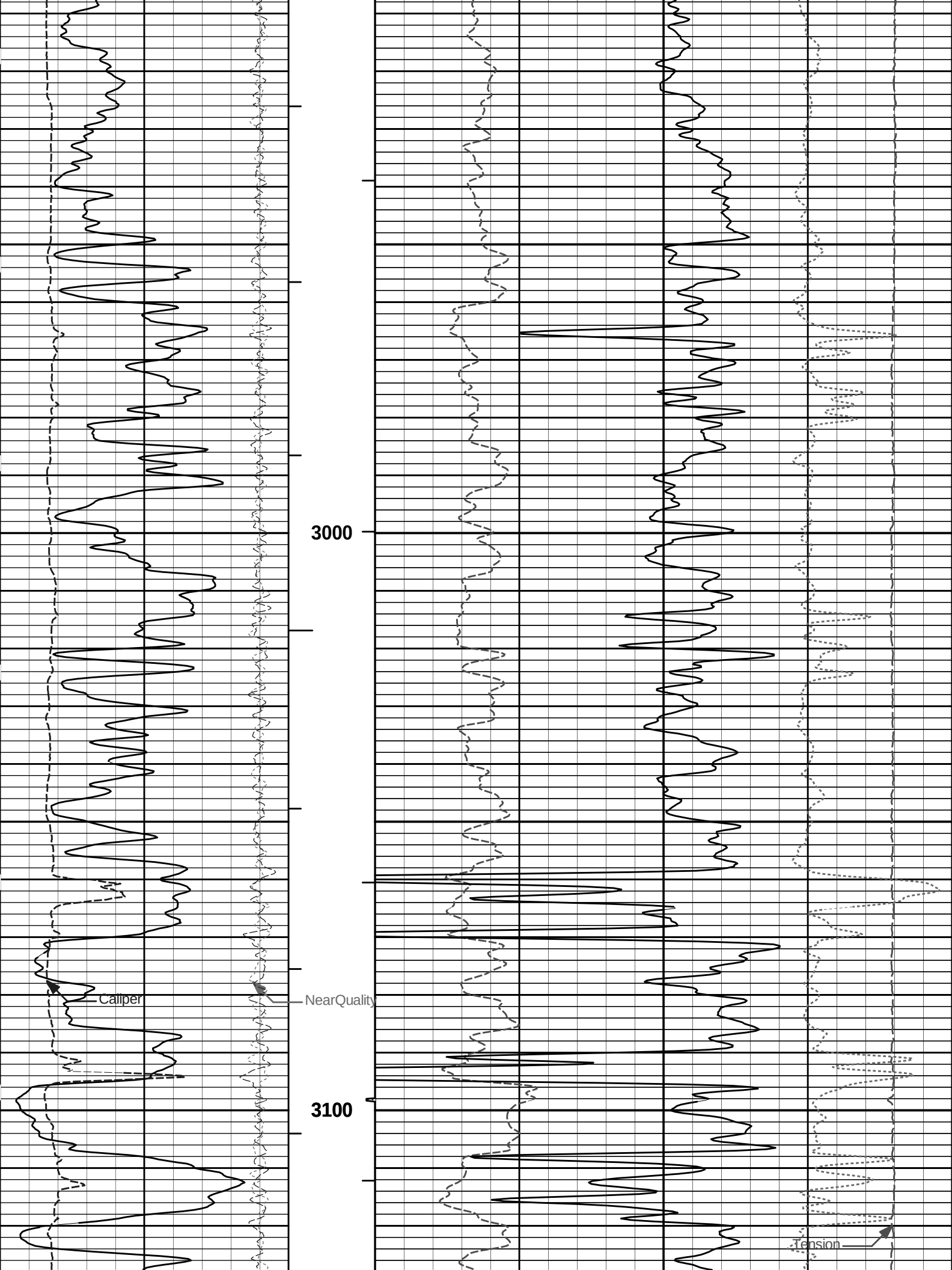
Plot Time: 24-May-11 14:42:21
Plot Range: 2350 ft to 5761.67 ft
Data: OB RATE_33_1\Well Based\DAQ-0001-003\
Plot File: \\LOCAL\OB RATE_33_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIPORA\BULKD_5_MAIN_LIB

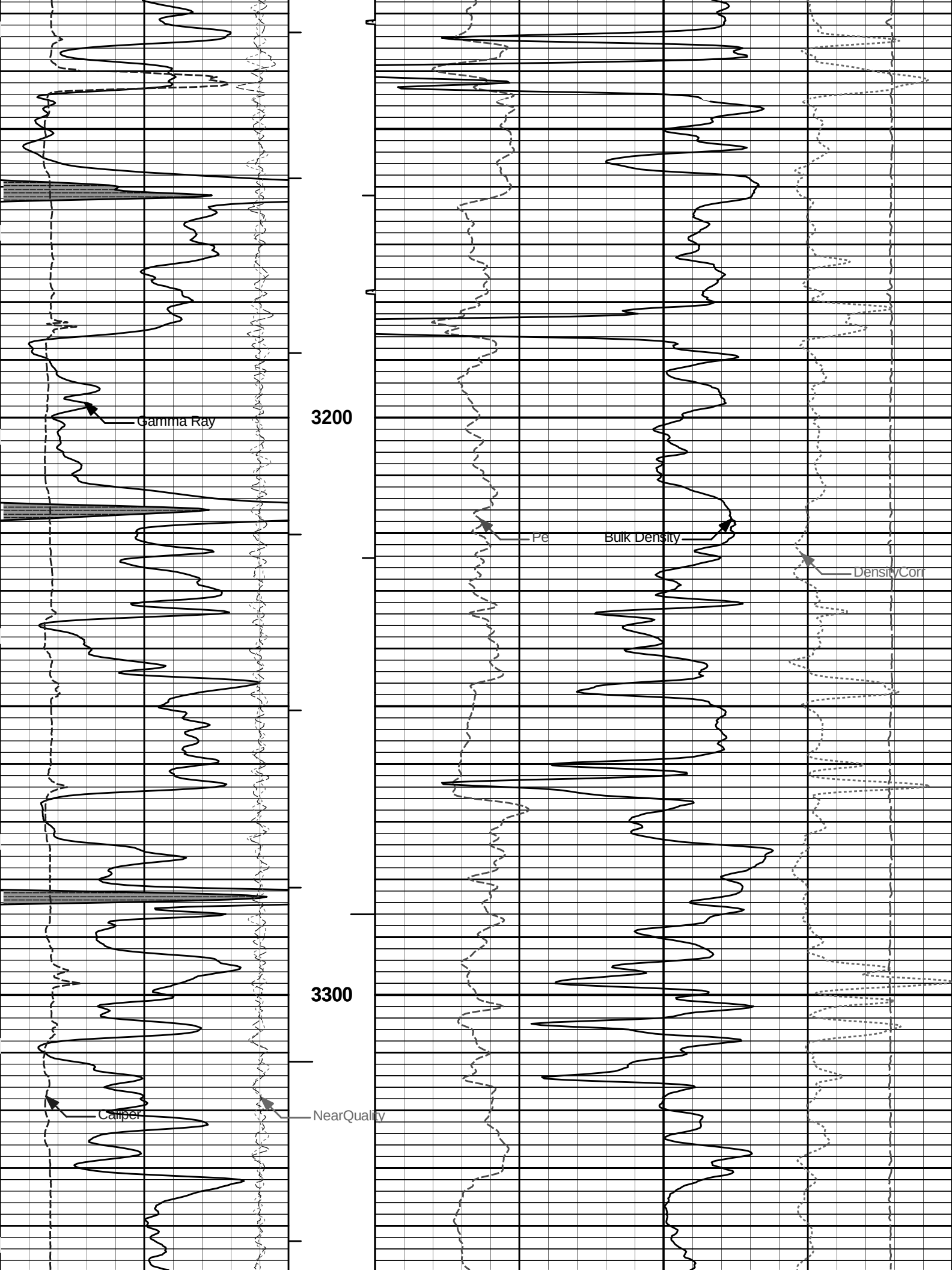
5 INCH MAIN LOG

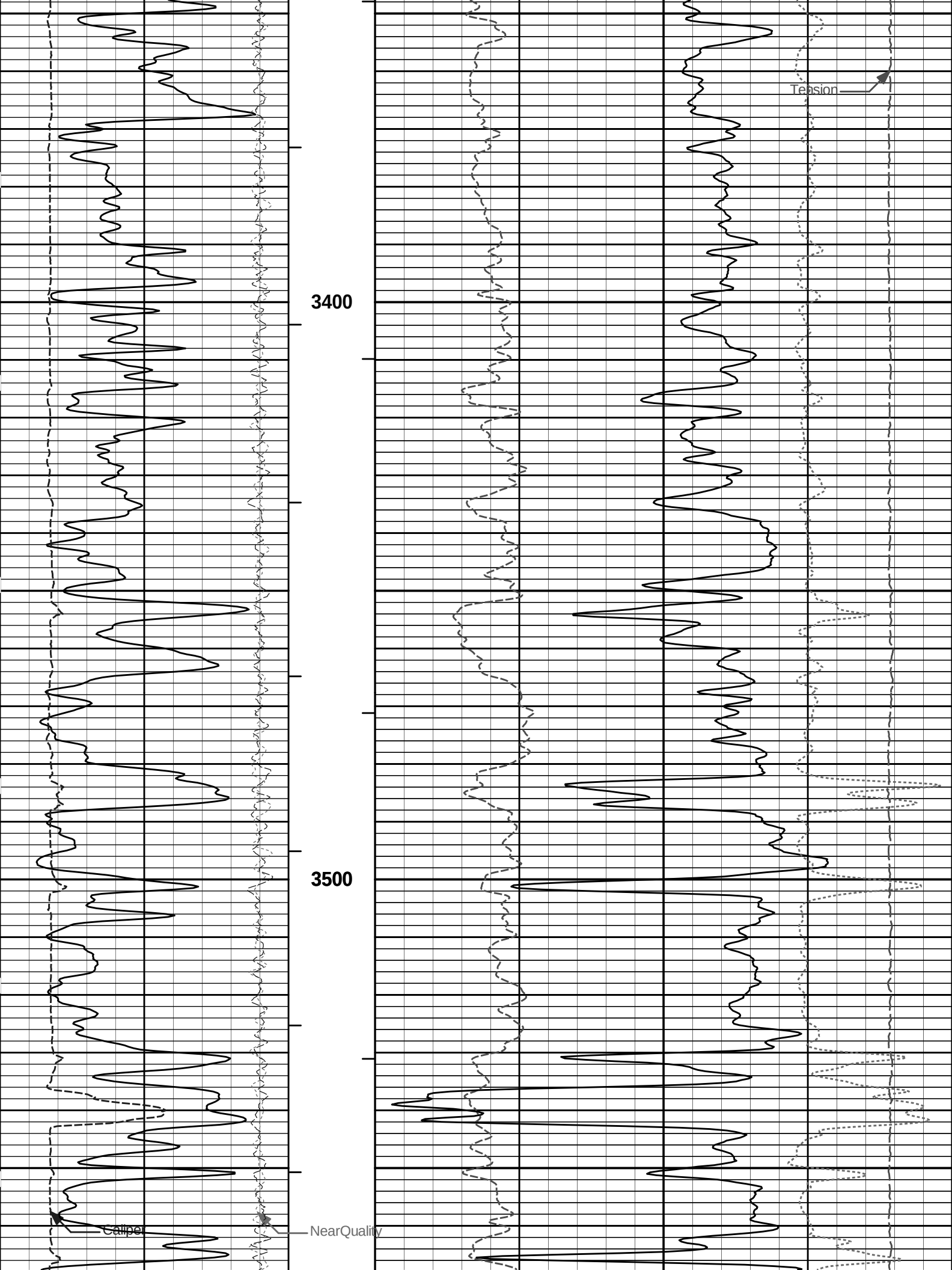


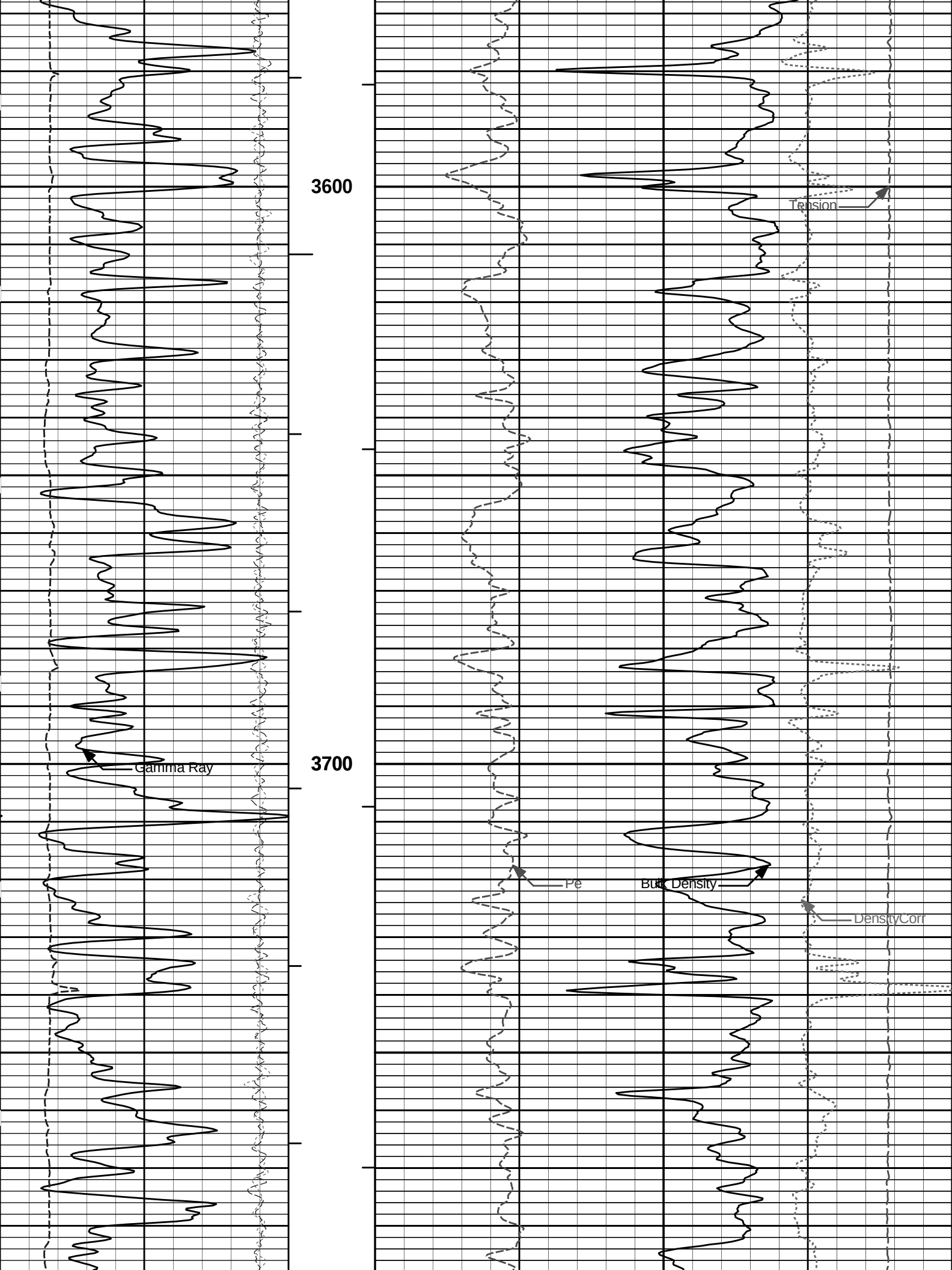


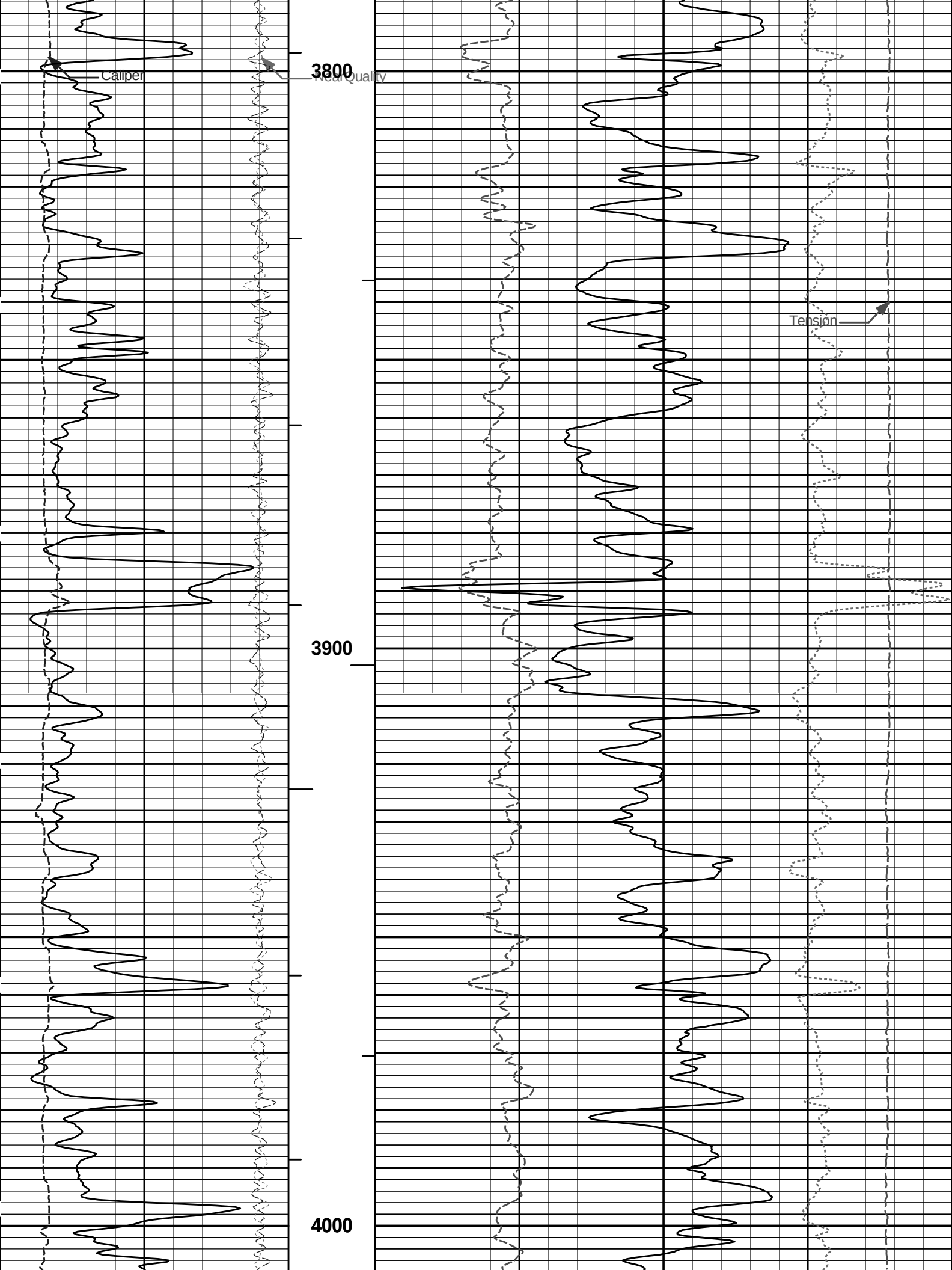


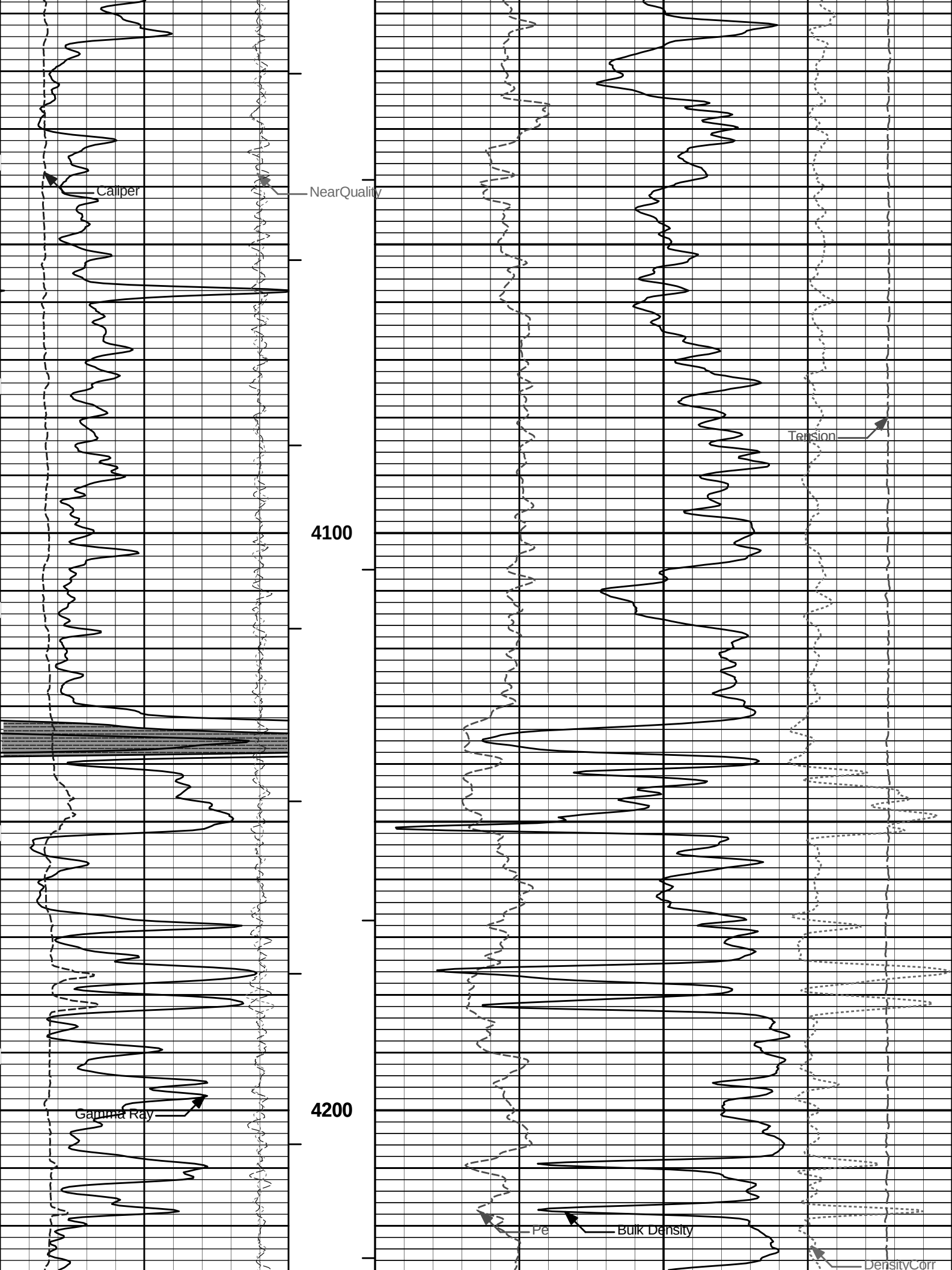


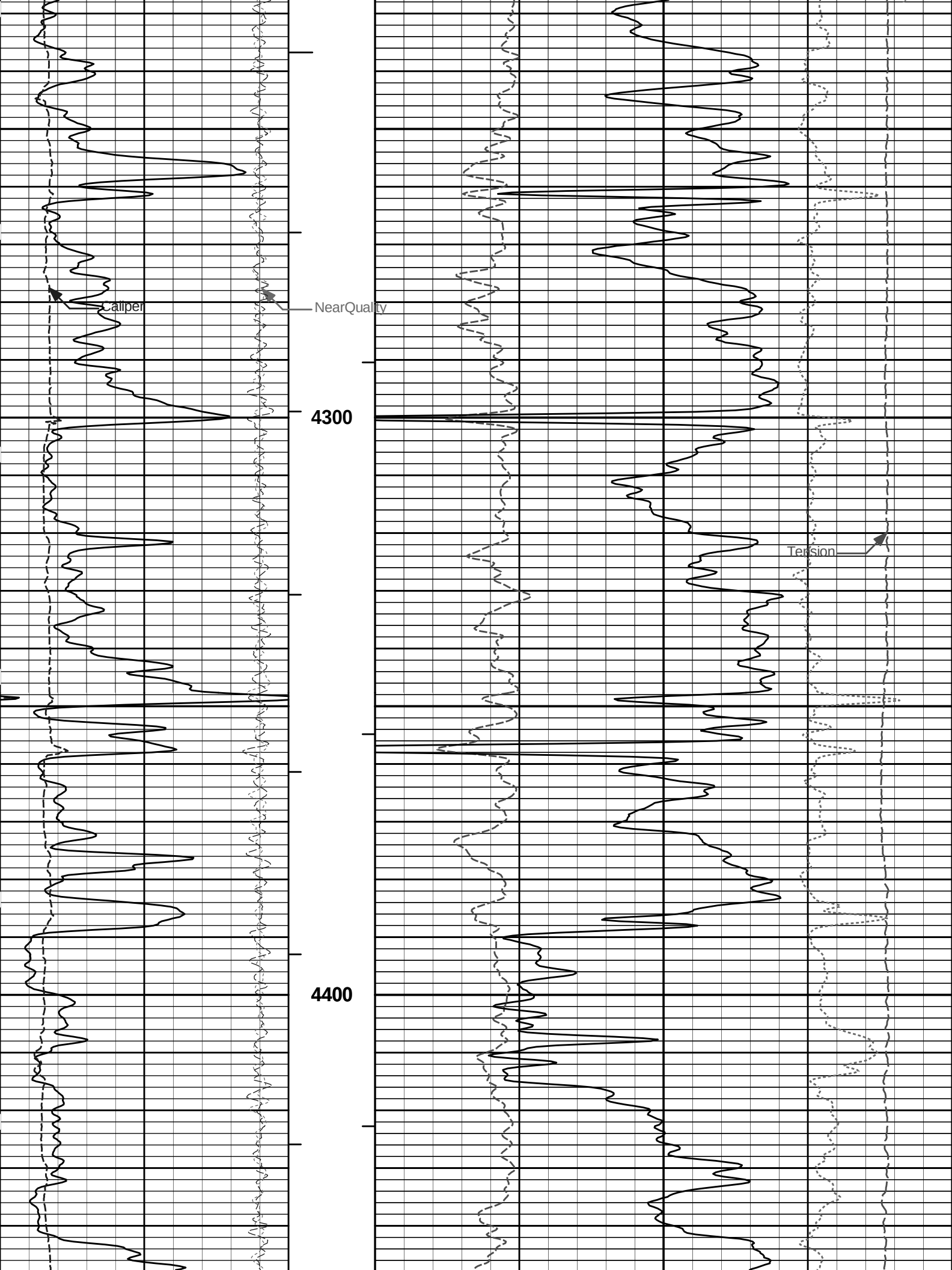


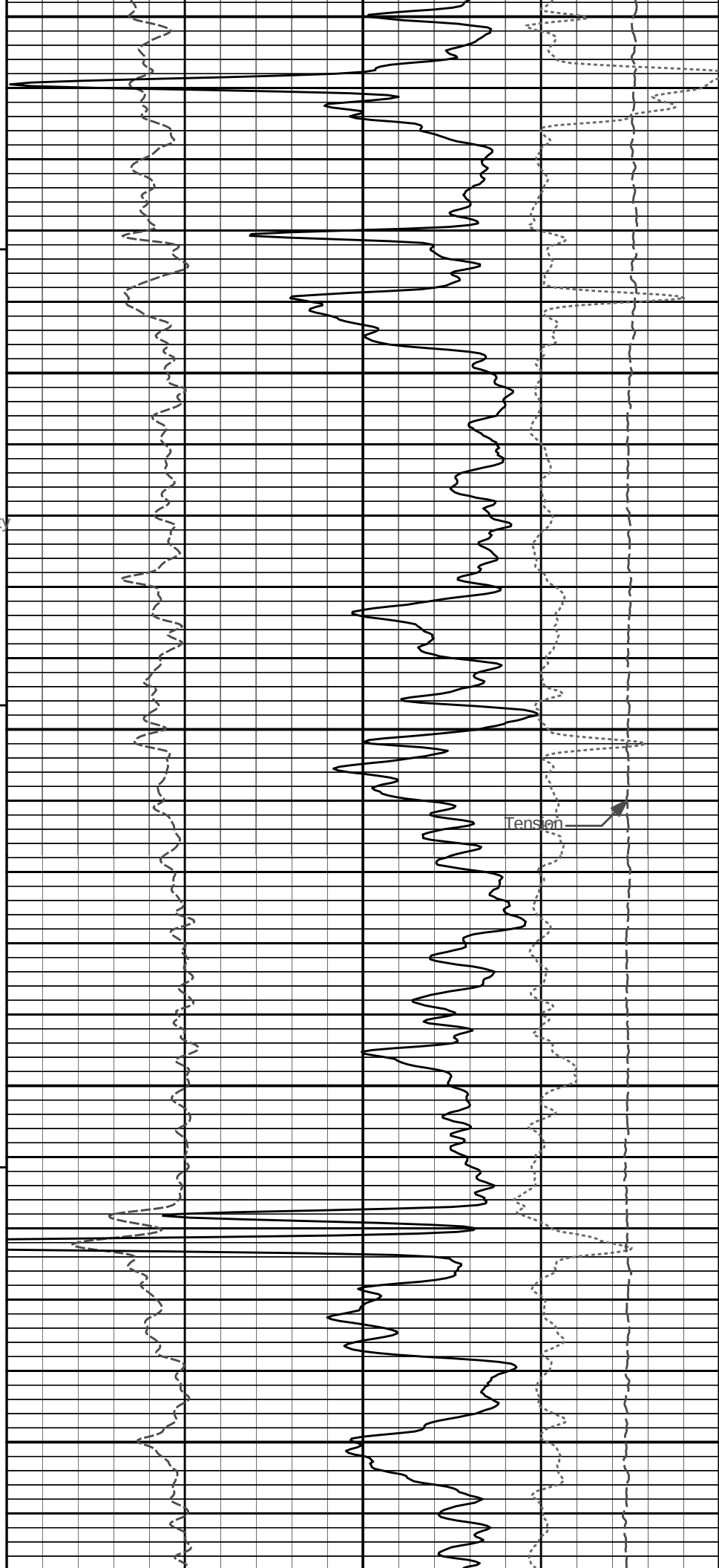
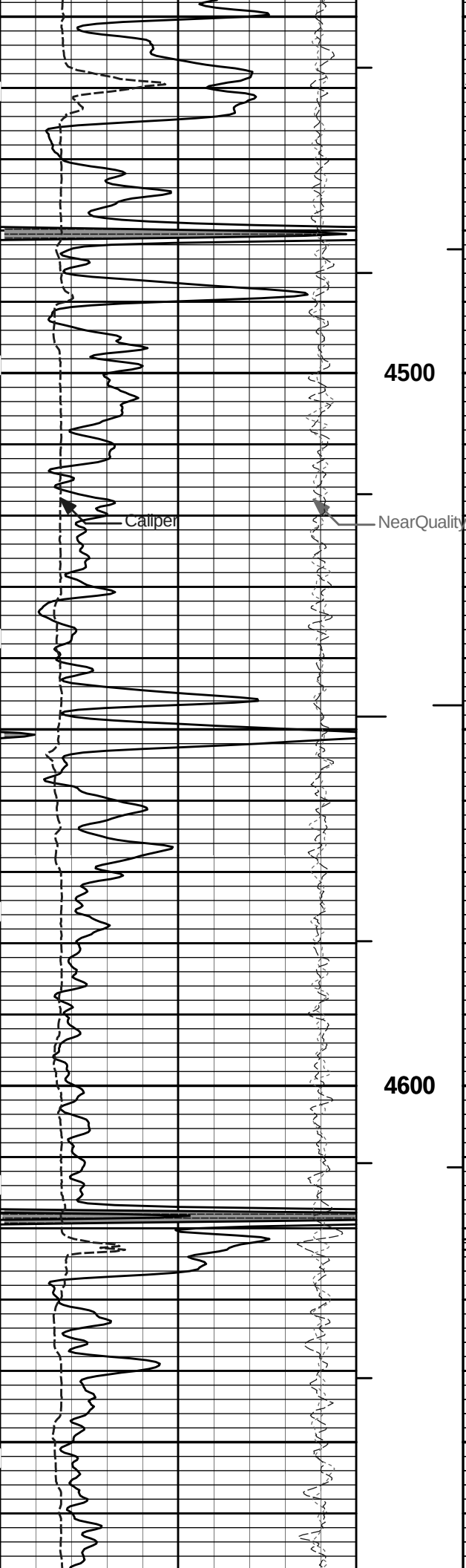


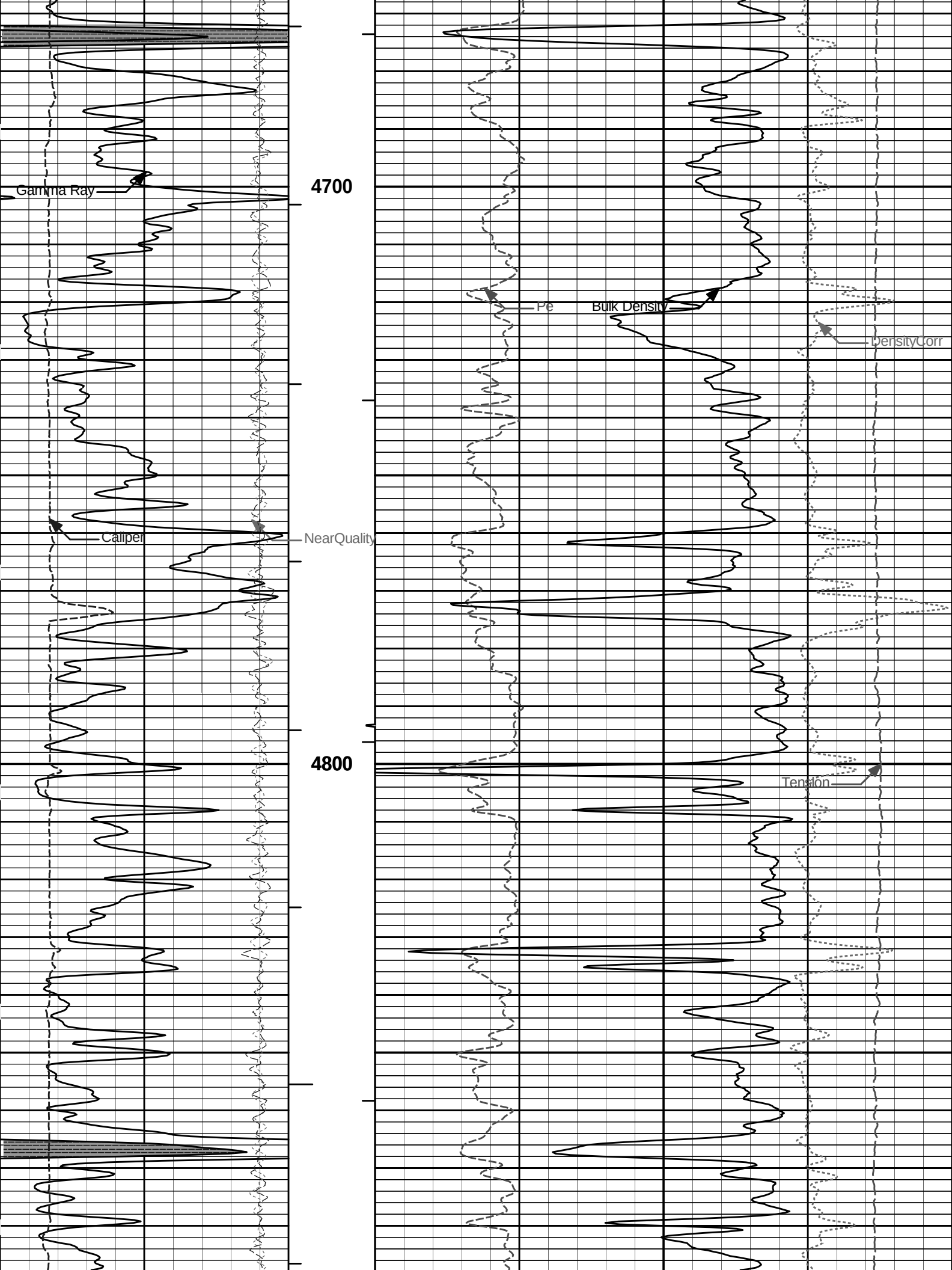


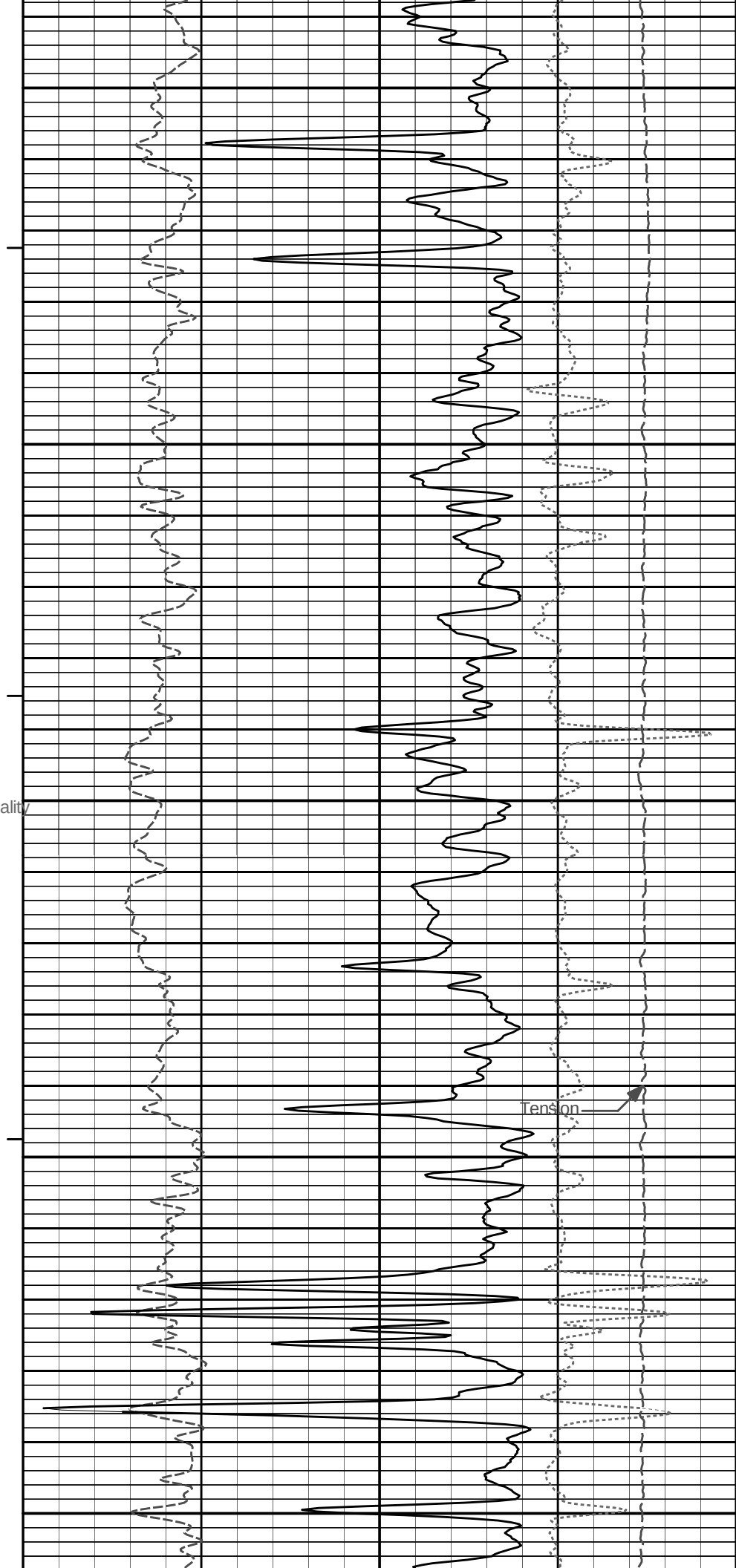
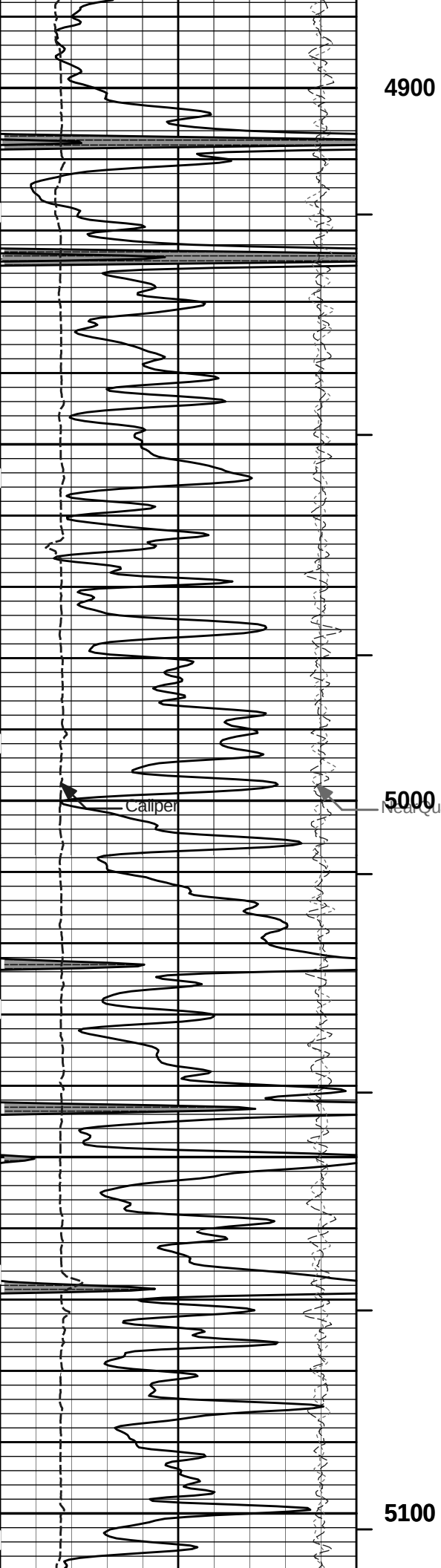


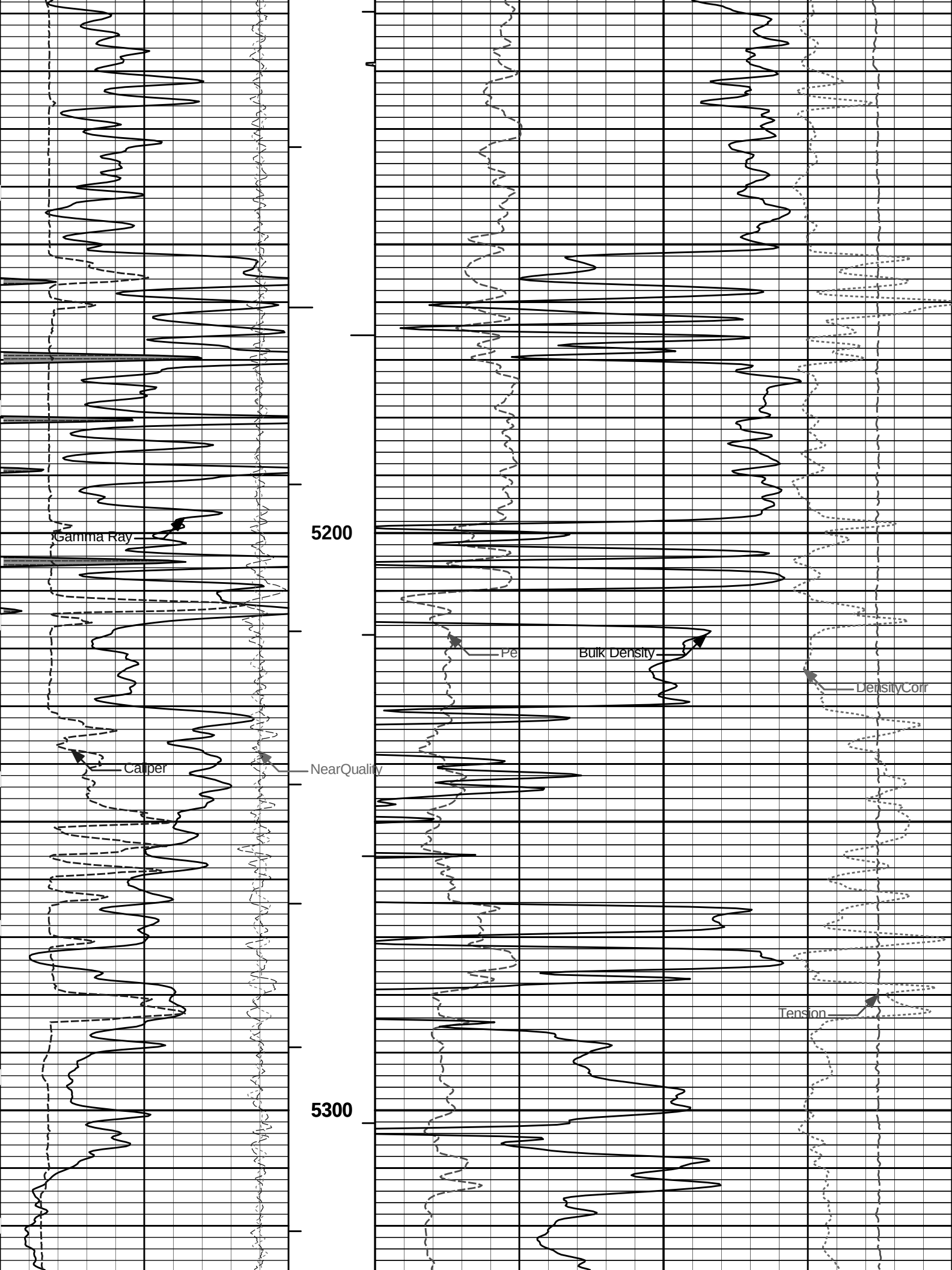


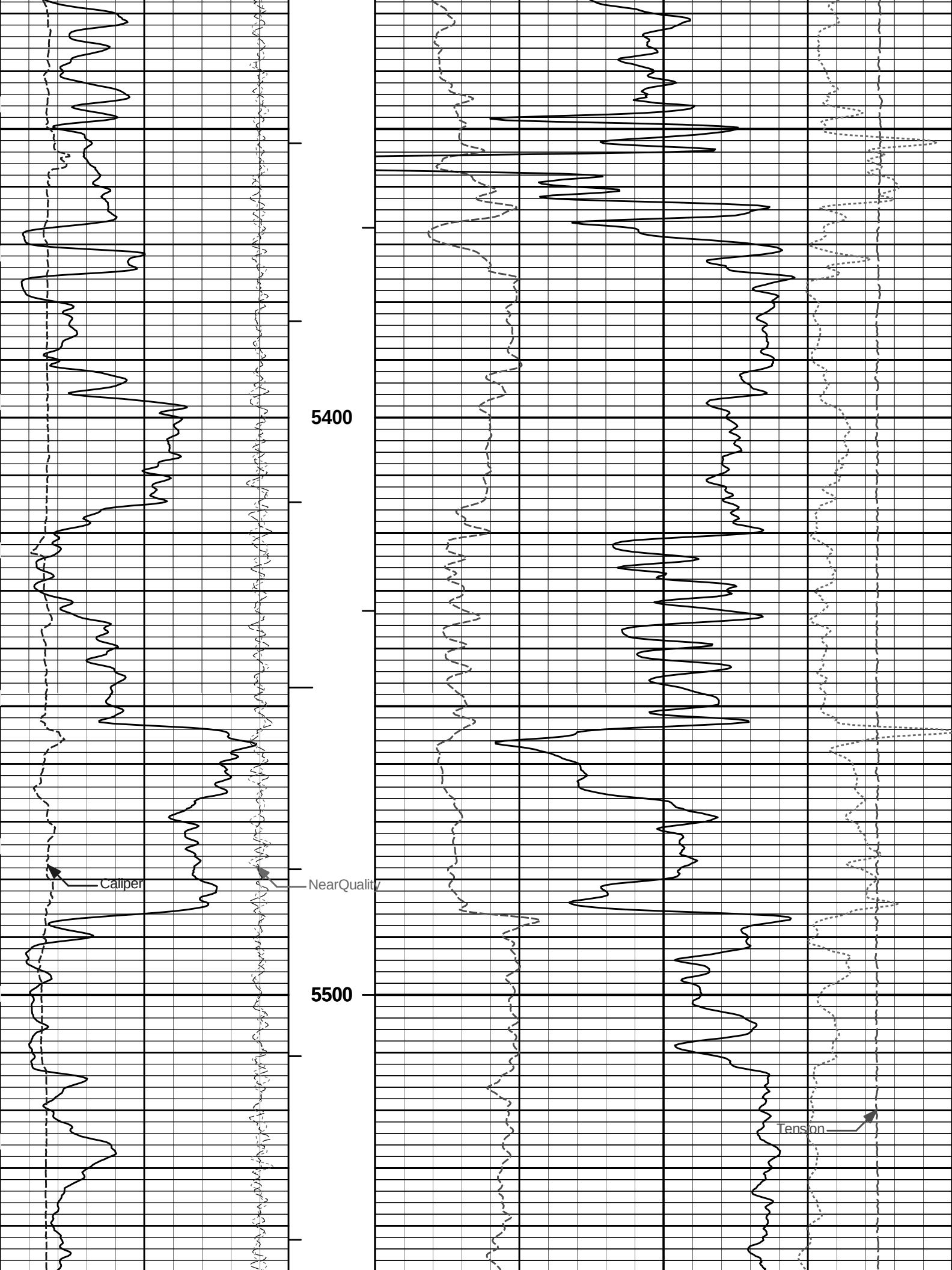


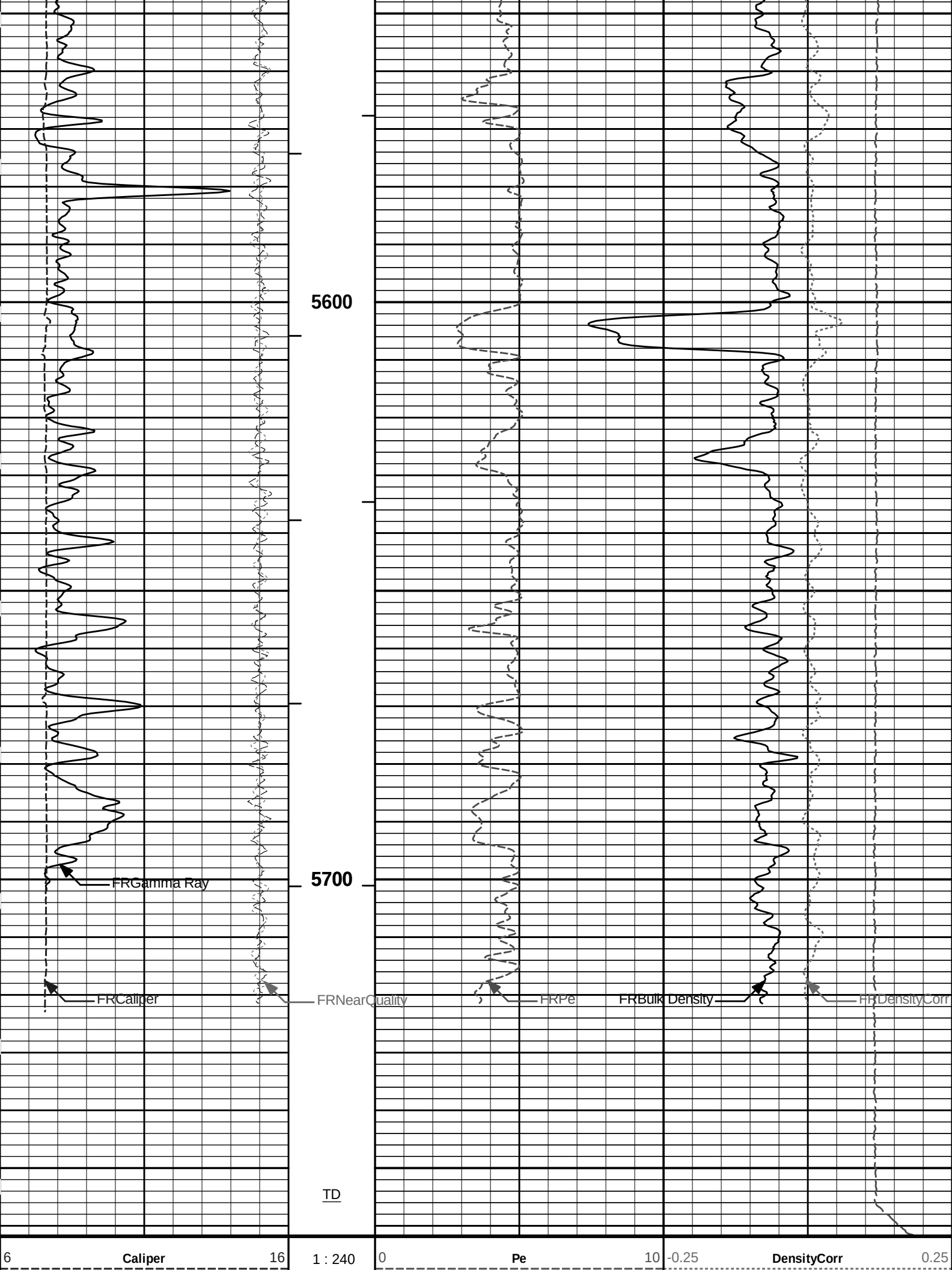












inches		ft		g/cc	
-18	NearQuality	2	BHV ft3	15K	Tension pounds
18	FarQuality	-2	AHV ft3	2	Bulk Density
Gamma Ray		150	Tension Pull	g/cc	
api		10	0		
SHALE		Tension Pull			

HALLIBURTON

Plot Time: 24-May-11 14:42:33
Plot Range: 2350 ft to 5761.67 ft
Data: OBRATE_33_1\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\OBRATE_33_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CH\PORO\BULKD_5_MAIN_LIB

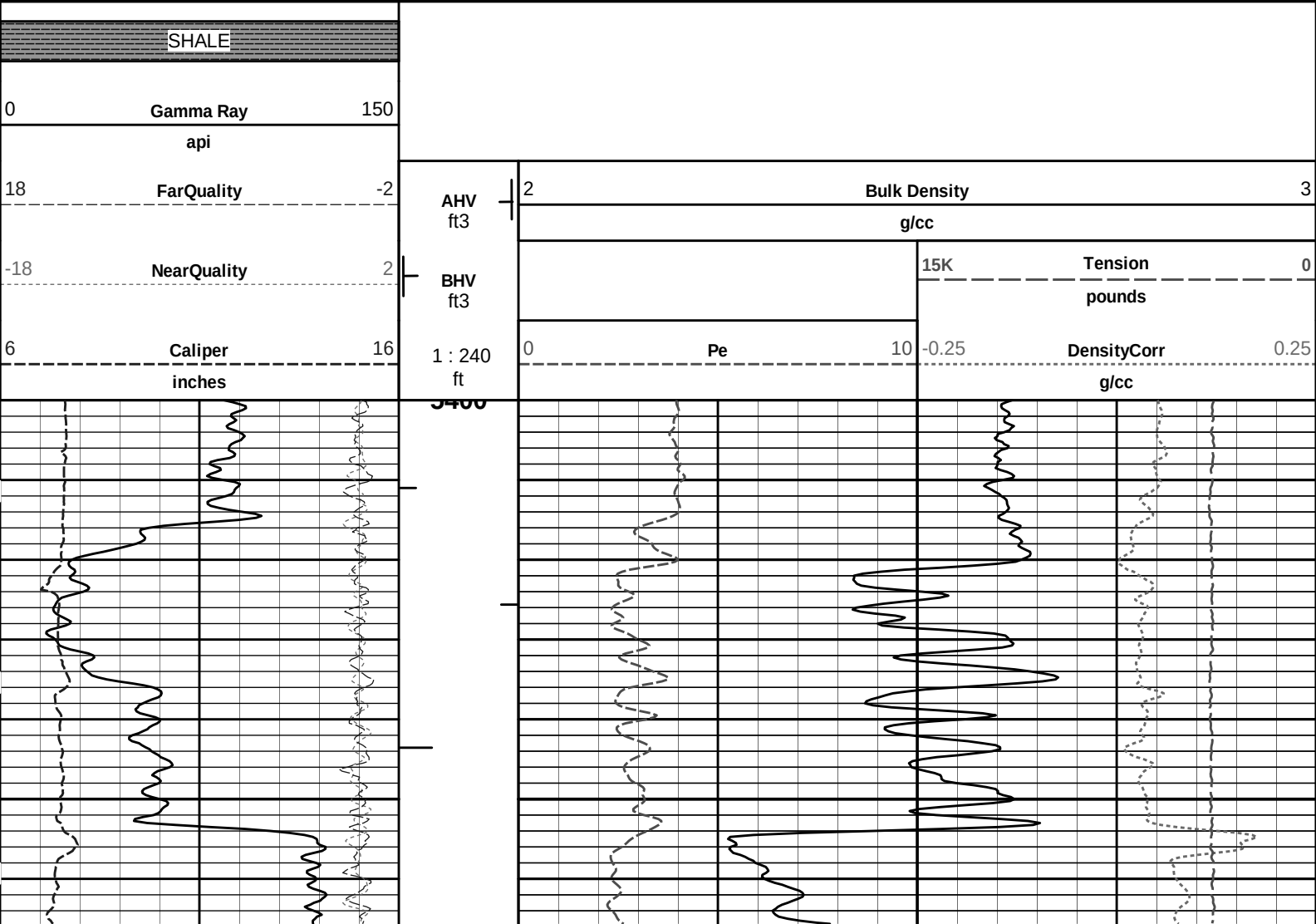
5 INCH MAIN LOG

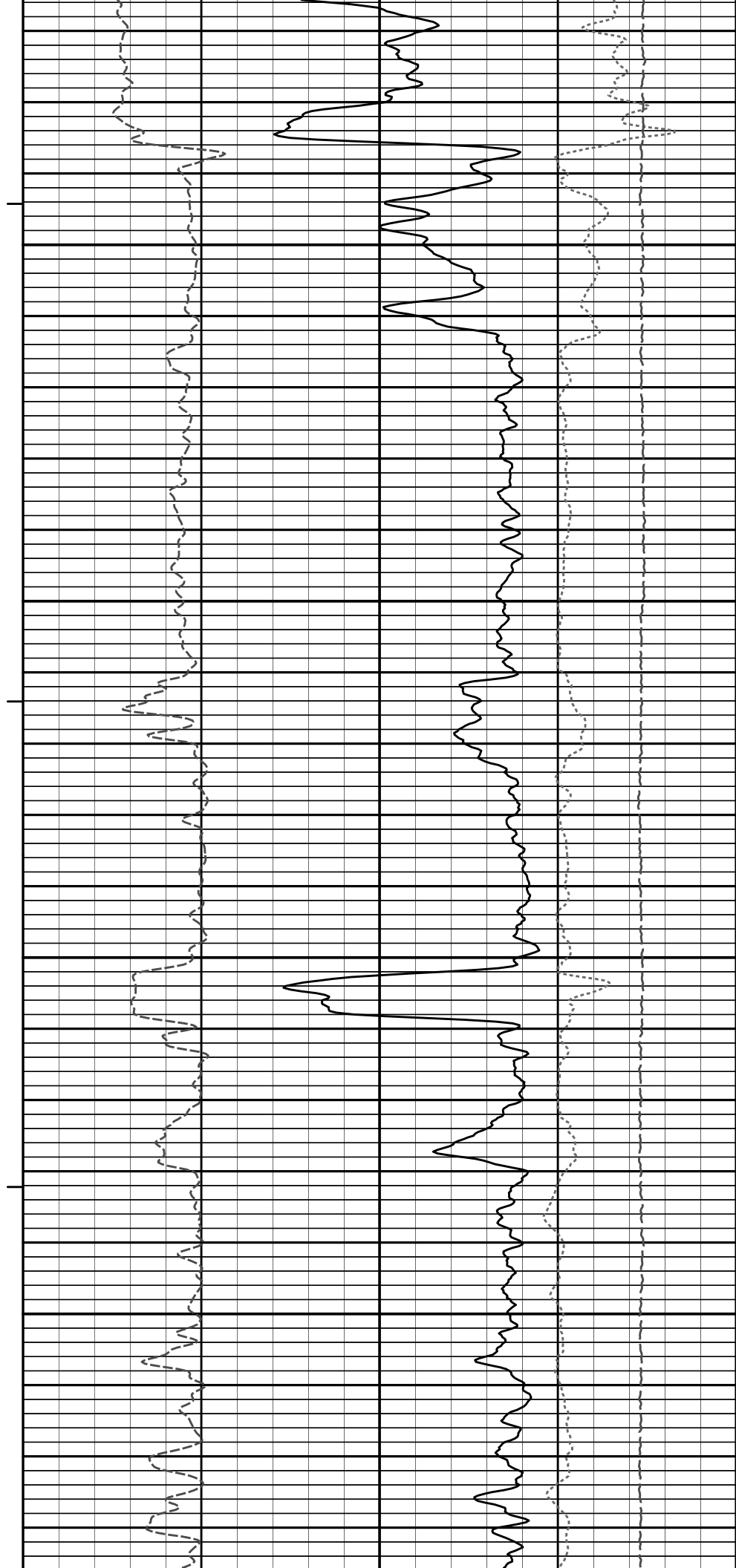
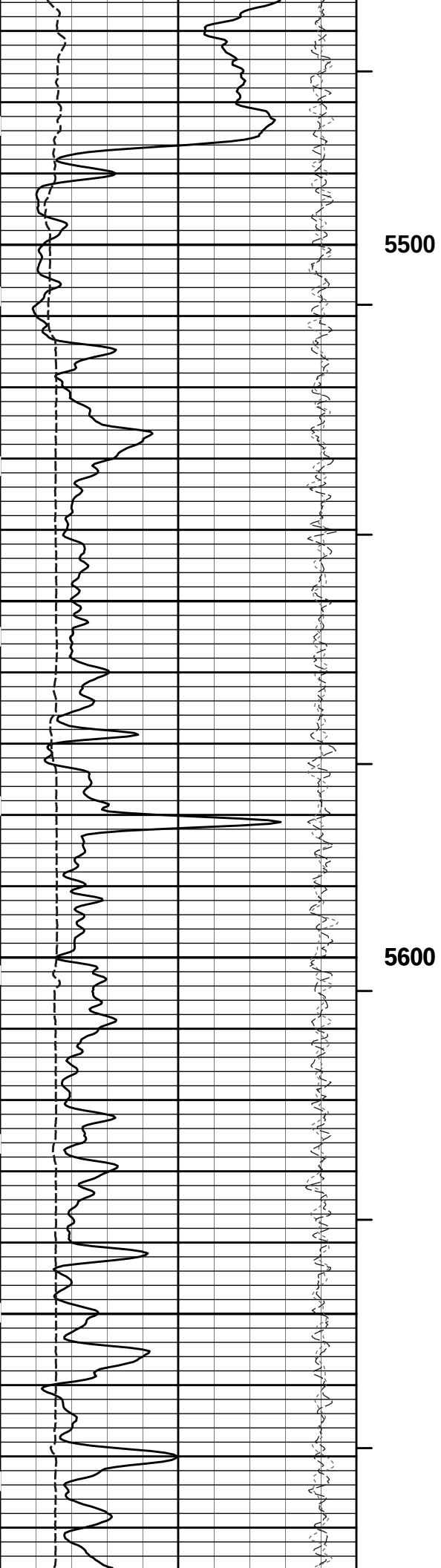
inches		ft		g/cc	
-18	NearQuality	2	BHV ft3	15K	Tension pounds
18	FarQuality	-2	AHV ft3	2	Bulk Density
Gamma Ray		150	Tension Pull	g/cc	
api		10	0		
SHALE		Tension Pull			

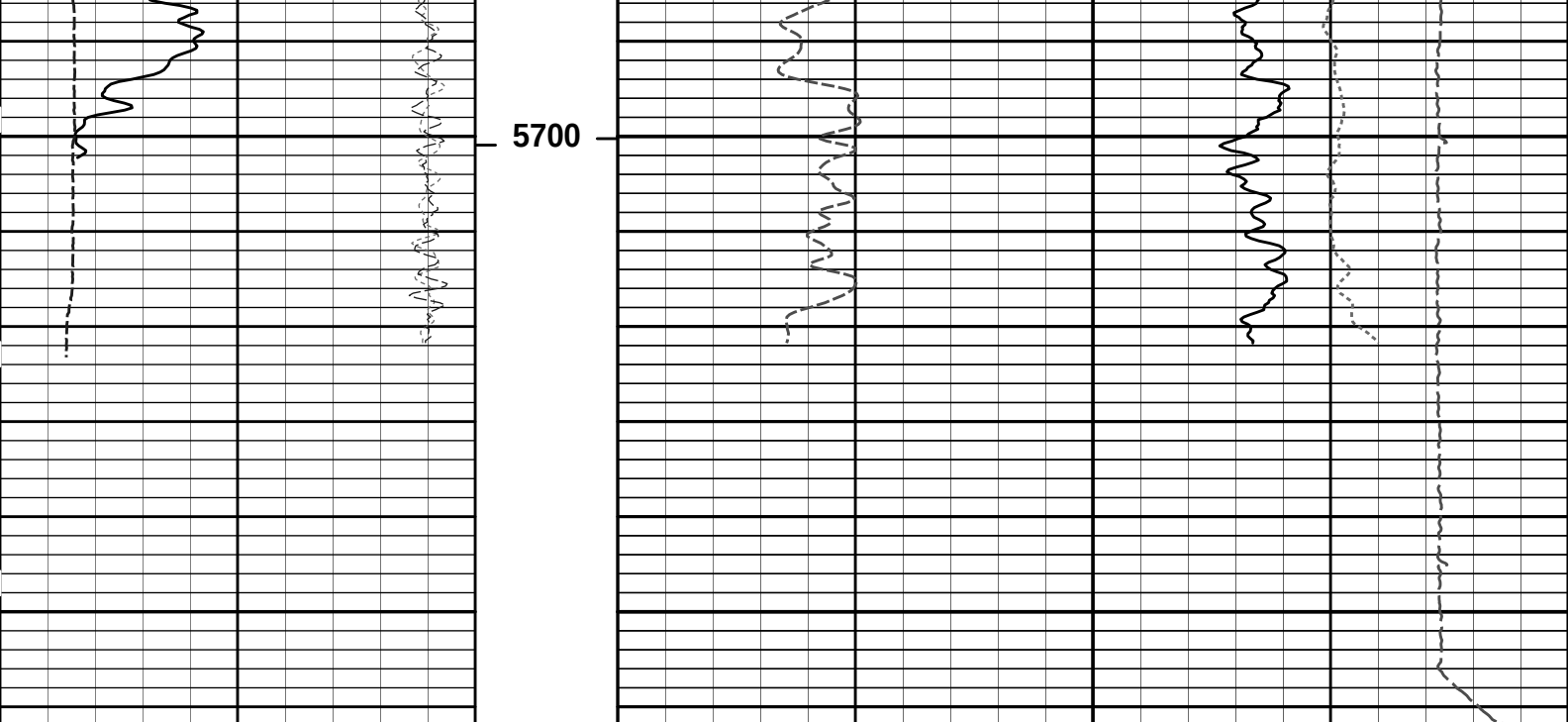
HALLIBURTON

Plot Time: 24-May-11 14:42:33
Plot Range: 5400 ft to 5761.92 ft
Data: OBRATE_33_1\Well Based\DAQ-0001-002\
Plot File: \\-LOCAL-\OBRATE_33_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CH\PORO\BULKD_5_REP_LIB

REPEAT SECTION







6	Caliper	16	1 : 240	0	Pe	10	-0.25	DensityCorr	0.25
	inches		ft					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							
	api								
	SHALE								

HALLIBURTON

Plot Time: 24-May-11 14:42:36

Plot Range: 5400 ft to 5761.92 ft

Data: OBRATE_33_1\Well Based\DAQ-0001-002\

Plot File: \\LOCAL-IOBRATE_33_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CH\POROI\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 →

8.52 ft

← GammaRay @ 58.56 ft

56.10 ft

DSN Decentralizer-
10755066
6.60 lbs

Ø 3.625 in* →

Ø 3.625 in →

9.69 ft

← DSN Far @ 49.17 ft
← DSN Near @ 48.42 ft

46.42 ft

SDLT-I04_P84
360.00 lbs

Ø 4.500 in →

Ø 4.750 in →

10.81 ft

SDL Microlog @ 38.60 ft
SDL Caliper @ 38.42 ft
SDL @ 38.41 ft

35.60 ft

BSAT-10747684
300.00 lbs

Ø 3.625 in →

15.77 ft

← Sonic Receivers @ 27.09 ft

19.83 ft

ACRt-I962_S909
250.00 lbs

Ø 3.625 in →

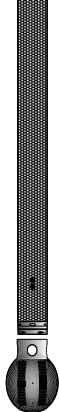
19.25 ft

← ACRt @ 9.46 ft

← Mud Resistivity @ 13.44 ft

Cabbage Head-
TRK696
5.00 lbs

Ø 3.625 in
Ø 6.000 in



0.58 ft
0.00 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
CBHD	Cabbage Head		TRK696	5.00	0.58	0.00	300.00
Total				1,378.10	72.34		
* Not included in Total Length and Length Accumulation.							
Data: OBRATE_33_10001 SP-GTET-DSN-SDL-BSAT-ACRT-CH\IDLE						Date: 24-May-11 10:50:38	

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:	24-May-11 10:13:53
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	43.3	api
Background + Calibrator	321.7	314.1	api

Background - Calibrator	0.2117	0.1411	api
Calibrator	269.6	270.8	api

Shop	Field	Difference	Tolerance
269.6	270.8	-1.2	+/- 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:	24-May-11 10:17:10
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	0.0696	-0.0106	+/- 0.0150

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

SPECTRAL DENSITY SHOP CALIBRATION

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:	24-May-11 10:13:01
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

Pad Temperature: 71.7 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1261.163	1265.691	4.528	14.393
Far (B+D+P+L) cps	912.532	918.696	6.164	16.392
Near Resolution	9.18	9.28	0.100	0.50
Far Resolution	8.97	9.22	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:				

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		

SDLT CALIPER FIELD CALIBRATION						
Tool Name:		SDLT - I04_P84		Reference Calibration Date:		10-May-11 16:29:51
Engineer:		C. PARKER		Calibration Date:		24-May-11 10:20:47
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	3.79	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-11050378						
Gamma Ray Calibrator	269.6	270.8	-----	-1.2	+/- 9.00	api
DSNT-11055304						
Snow-Block Porosity	0.0802	0.0696	-----	0.0106	+/- 0.0150	decp
SDLT-I04_P84						
Near(B+D+P+L)	1261.163	1265.691	-----	-4.528	+/-14.393	cps
Far(B+D+P+L)	912.532	918.696	-----	-6.164	+/-16.392	cps
Pad Extension	3.75	3.79	-----	-0.04	+/-0.10	in
Ring Diameter	8.25	8.15	-----	0.100	+/-0.15	in

Data: OBRATE_33_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CH\IDLE				Date: 24-May-11 14:17:21		
--	--	--	--	--------------------------	--	--

HALLIBURTON						
PARAMETERS REPORT						

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP-----					
	DSNT	DNOK	Process DSN?	No	
	SDLT	DNOK	Process Density?	No	
	SDLT	MLOK	Process MicroLog Outputs?	No	
2340.00-----					
	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	8.900	ppg

SHARED	MDWT	Borehole Fluid Weight	0.500	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	1.310	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	5756.00	ft
SHARED	BHT	Bottom Hole Temperature	140.0	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	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	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	Wylie	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
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	
BOTTOM				

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	66.58	NO	
SP	Spontaneous Potential	66.58	BLK	1.250
SPR	Raw Spontaneous Potential	66.58	NO	
SPO	Spontaneous Potential Offset	66.58	NO	
GTET				
TPUL	Tension Pull	58.56	NO	
GR	Natural Gamma Ray API	58.56	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	58.56	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	58.56	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	48.32	NO	
RNDS	Near Detector Telemetry Counts	48.42	BLK	1.417
RFDS	Far Detector Telemetry Counts	49.17	TRI	0.583
DNTT	DSN Tool Temperature	48.42	NO	
DSNS	DSN Tool Status	48.32	NO	
ERND	Near Detector Telemetry Counts EVR	48.42	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	49.17	BLK	0.000
ENTM	DSN Tool Temperature EVR	48.42	NO	
SDLT				
TPUL	Tension Pull	38.41	NO	
NAB	Near Above	38.24	BLK	0.920
NHI	Near Cesium High	38.24	BLK	0.920
NLO	Near Cesium Low	38.24	BLK	0.920
NVA	Near Valley	38.24	BLK	0.920
NBA	Near Barite	38.24	BLK	0.920
NDE	Near Density	38.24	BLK	0.920
NPK	Near Peak	38.24	BLK	0.920
NLI	Near Lithology	38.24	BLK	0.920
NBAU	Near Barite Unfiltered	38.24	BLK	0.250
NLIU	Near Lithology Unfiltered	38.24	BLK	0.250
FAB	Far Above	38.58	BLK	0.250
FHI	Far Cesium High	38.58	BLK	0.250
FLO	Far Cesium Low	38.58	BLK	0.250
FVA	Far Valley	38.58	BLK	0.250
FBA	Far Barite	38.58	BLK	0.250
FDE	Far Density	38.58	BLK	0.250
FPK	Far Peak	38.58	BLK	0.250
FUI	Far Unfiltered	38.58	BLK	0.250

	Far Lithology	38.58	BLK	0.250
PTMP	Pad Temperature	38.42	BLK	0.920
NHV	Near Detector High Voltage	35.60	NO	
FHV	Far Detector High Voltage	35.60	NO	
ITMP	Instrument Temperature	35.60	NO	
DDHV	Detector High Voltage	35.60	NO	
TPUL	Tension Pull	38.42	NO	
PCAL	Pad Caliper	38.42	TRI	0.250
ACAL	Arm Caliper	38.42	TRI	0.250
TPUL	Tension Pull	38.60	NO	
MINV	Microlog Lateral	38.60	BLK	0.750
MNOR	Microlog Normal	38.60	BLK	0.750
BSAT				
TPUL	Tension Pull	27.09	NO	
STAT	Status	27.09	NO	
DLYT	Delay Time	27.09	NO	
SI	Sample Interval	27.09	NO	
TXRX	Raw Telemetry 10 Receivers	27.09	NO	
FRMC	Tool Frame Count	27.09	NO	
ACRt				
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

