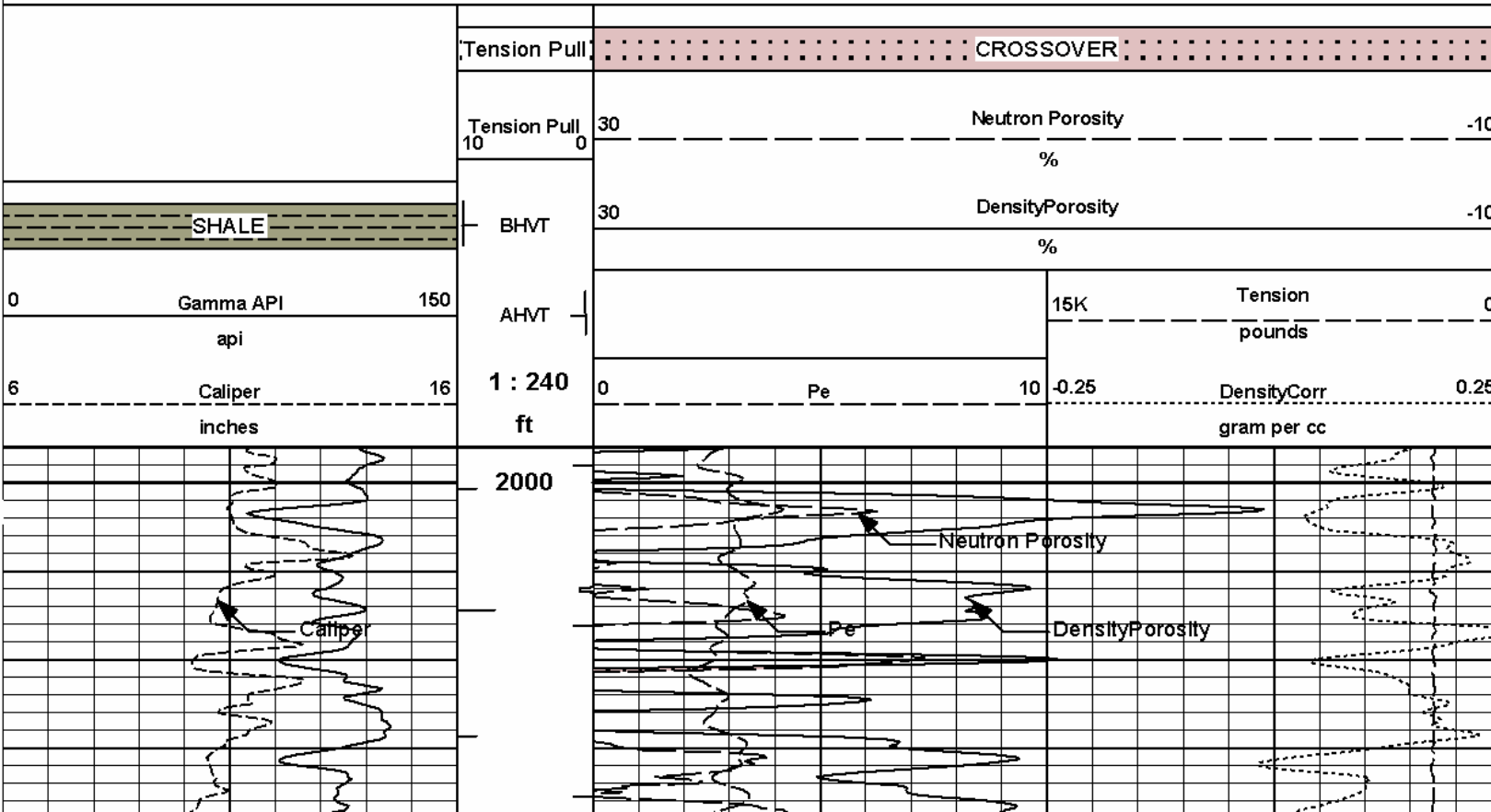
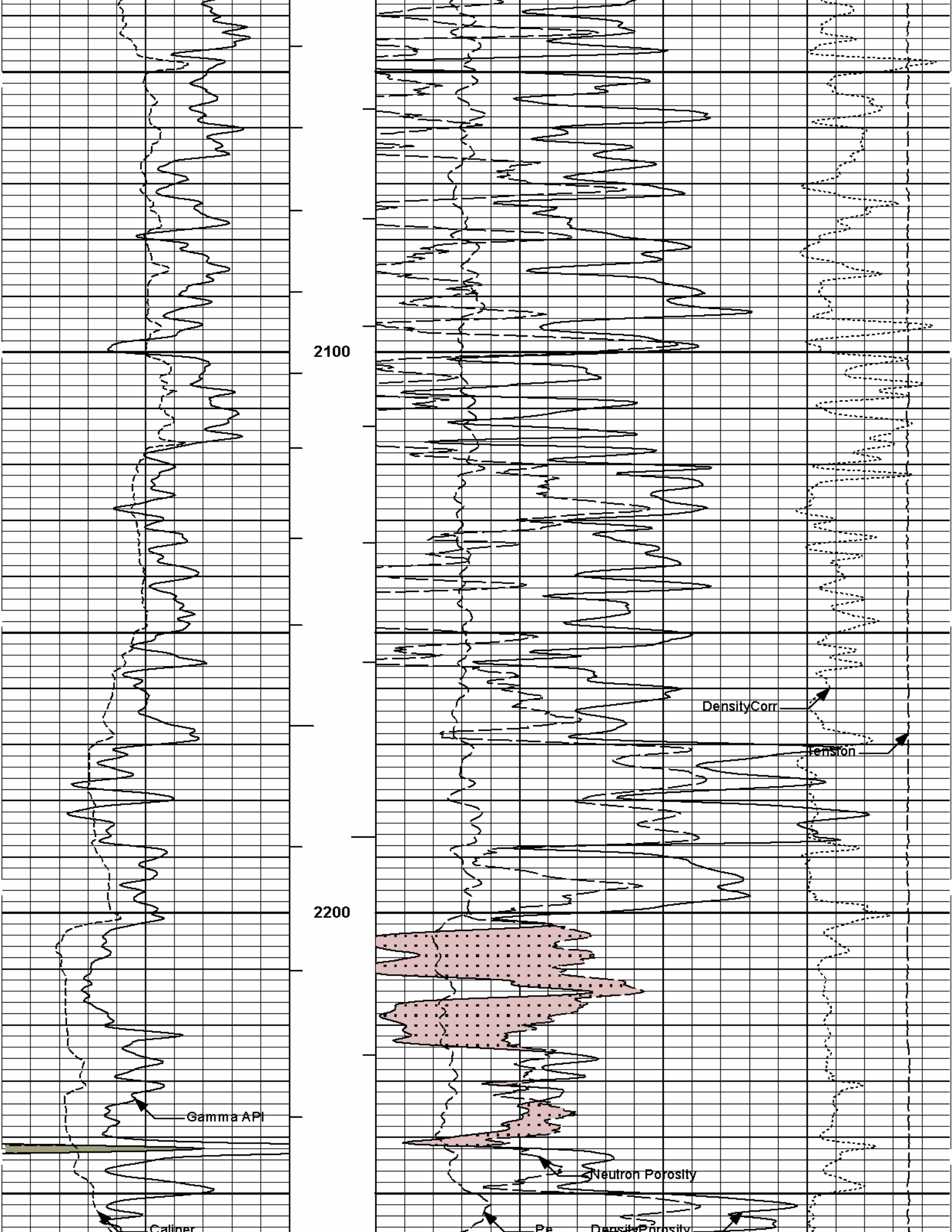
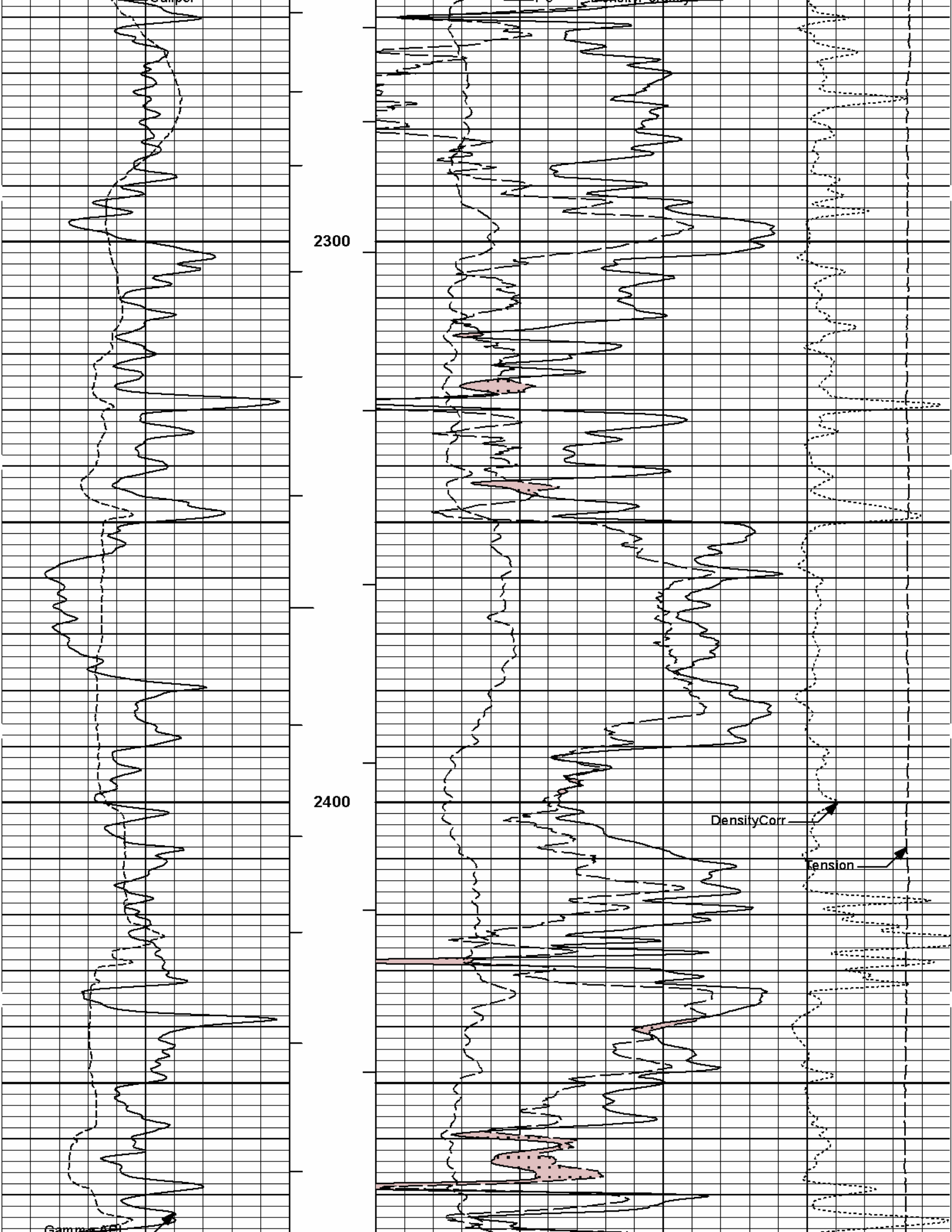


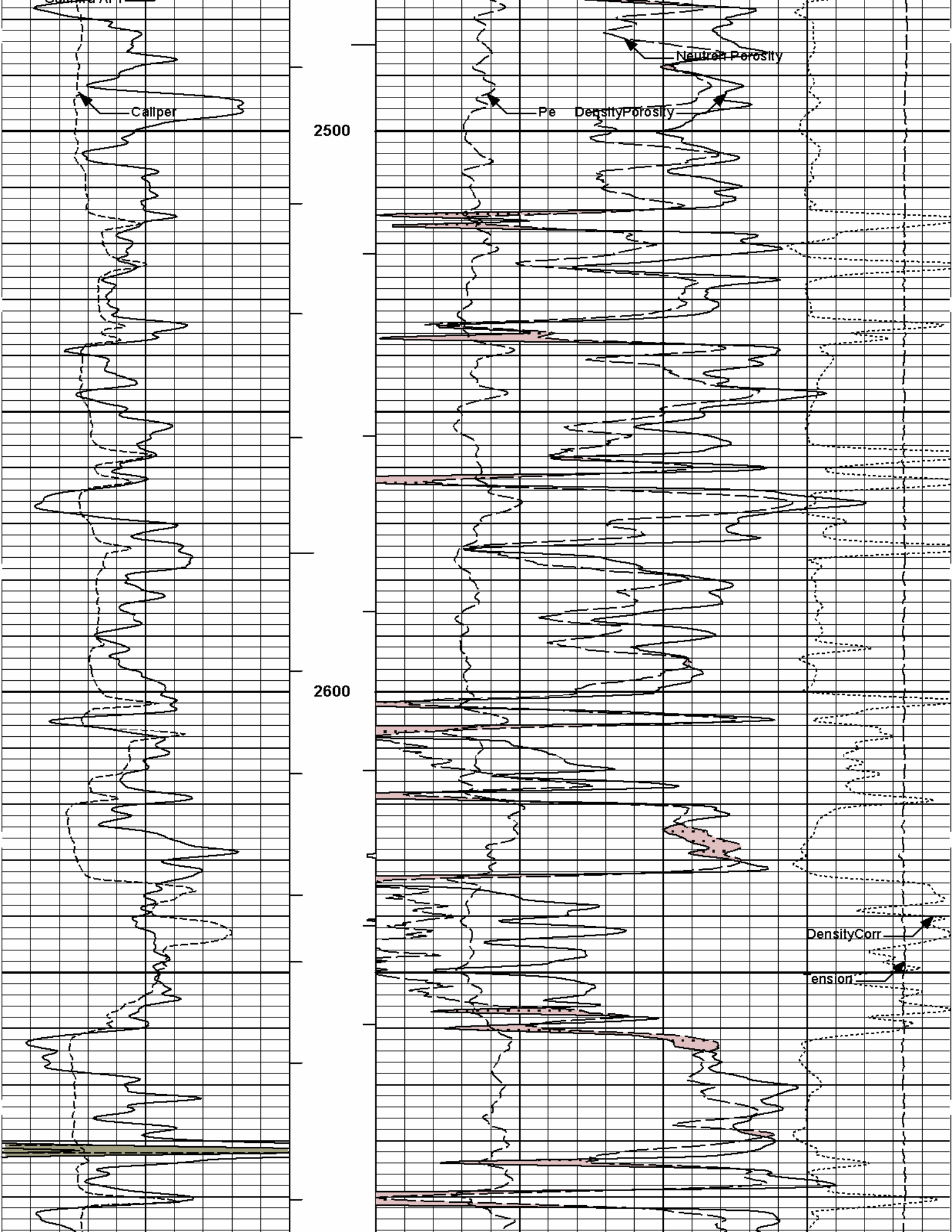
**SPECTRAL DENSITY
DUAL SPACED NEUTRON
LOG**

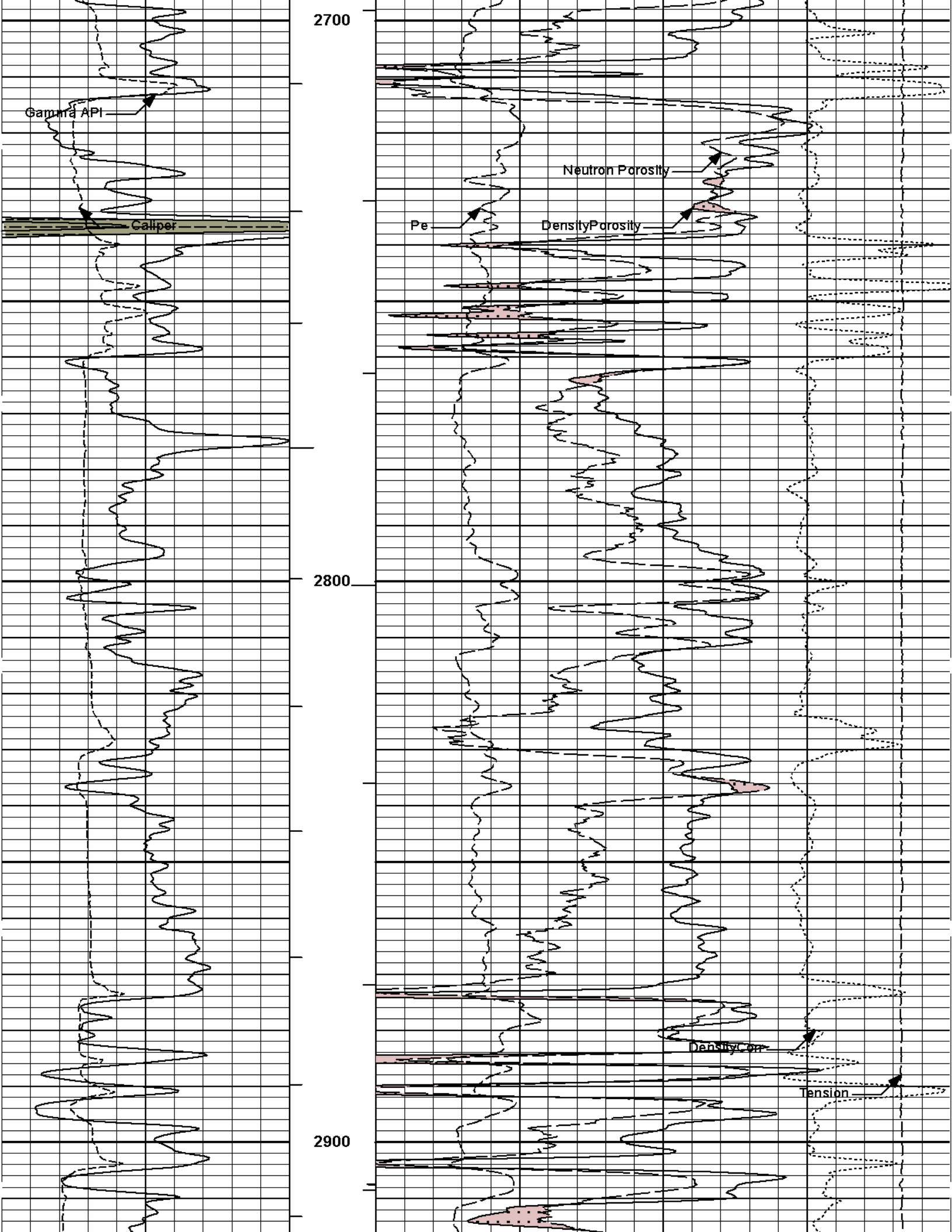
Service Ticket No.: 8322975						API Serial No.: 15-129-21931						PGM Version: WL INSITE R3.2.0 (Build 7)											
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES											
Date		Sample No.										Type Log		Depth		Scale Up Hole		Scale Down Hole					
Depth-Driller																							
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.		11048627		Serial No.				Serial No.		104_P84		Serial No.		11055304									
Model No.		GTET		Model No.				Model No.		SDTLT		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		15 CI		Strength		1.5 CI									
LOGGING DATA																							

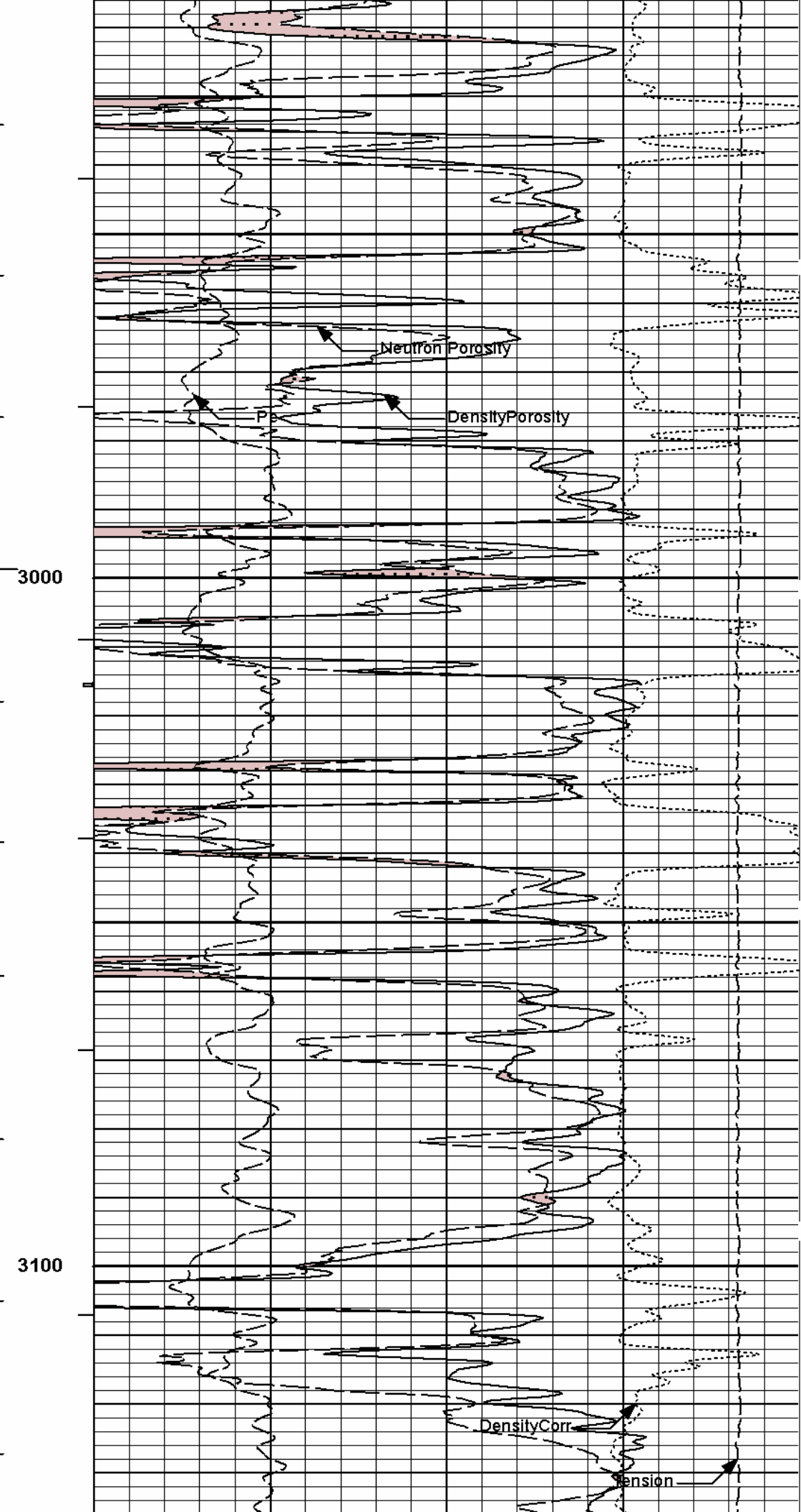
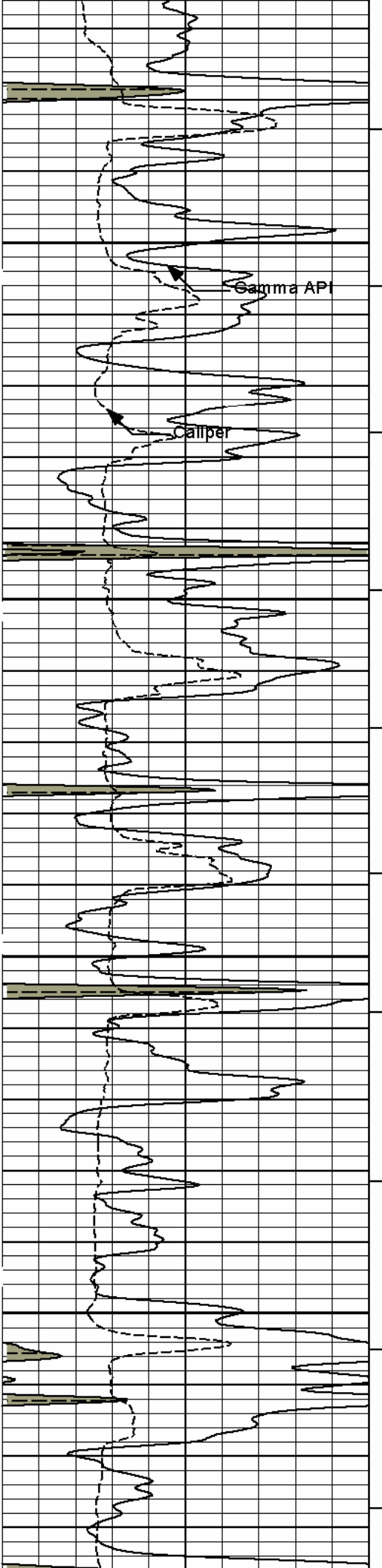


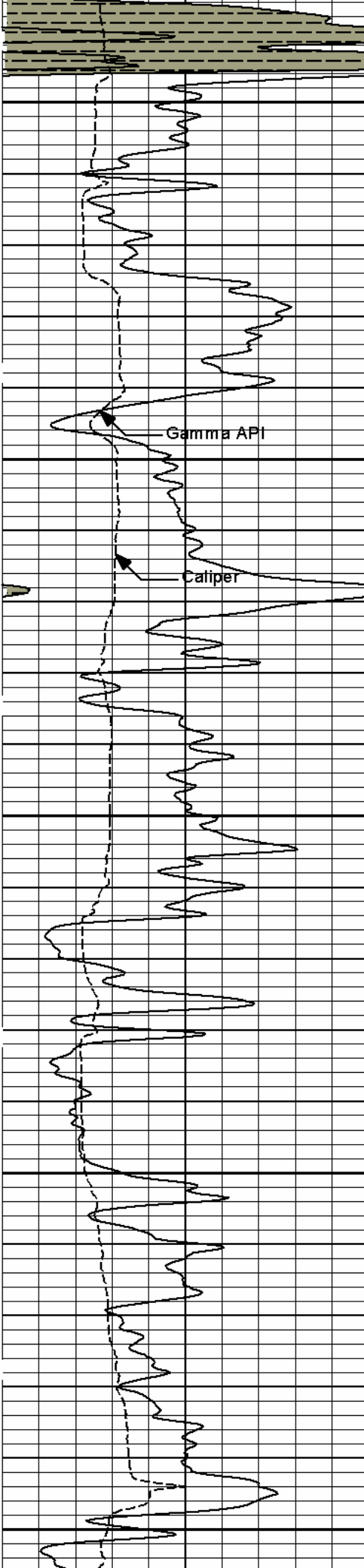






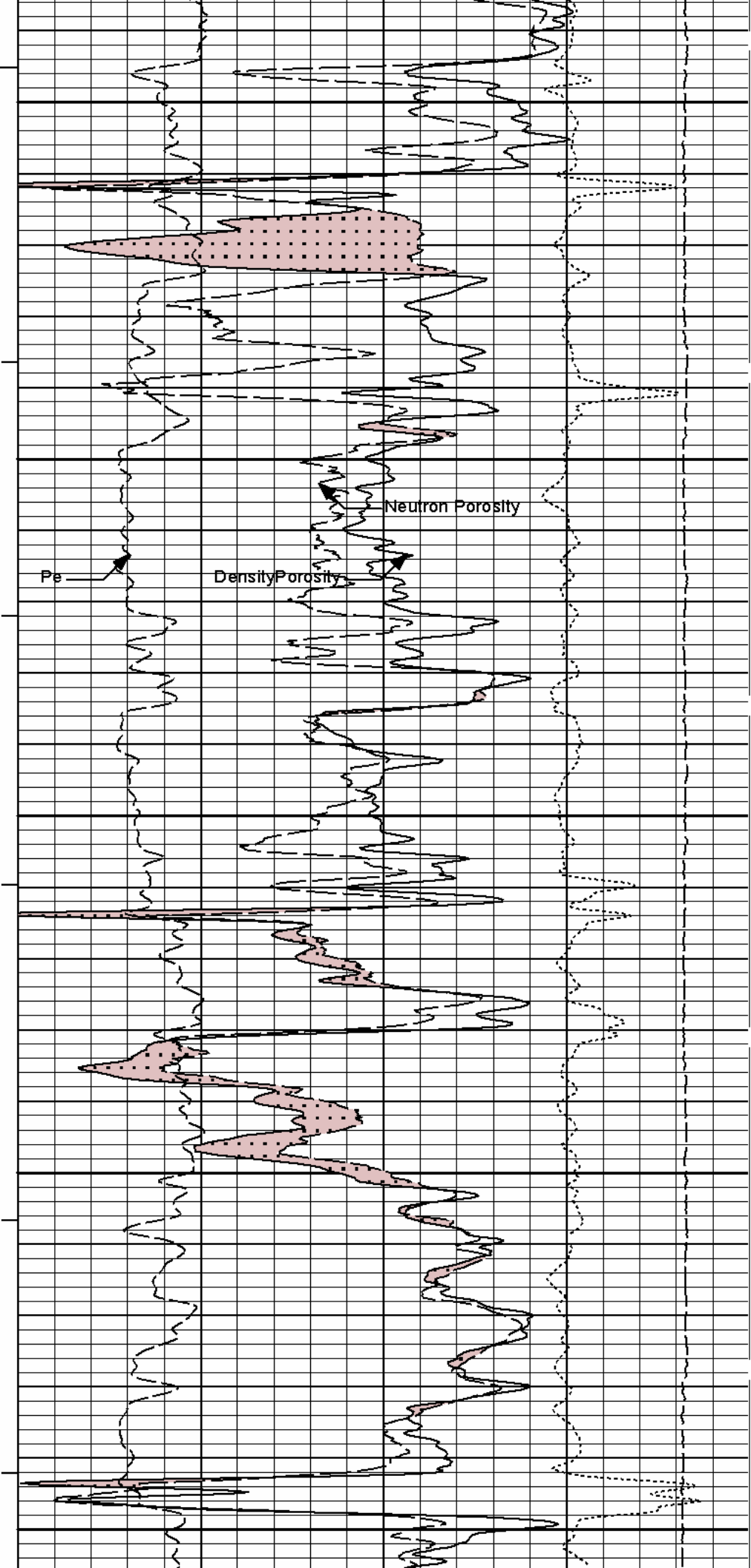






3200

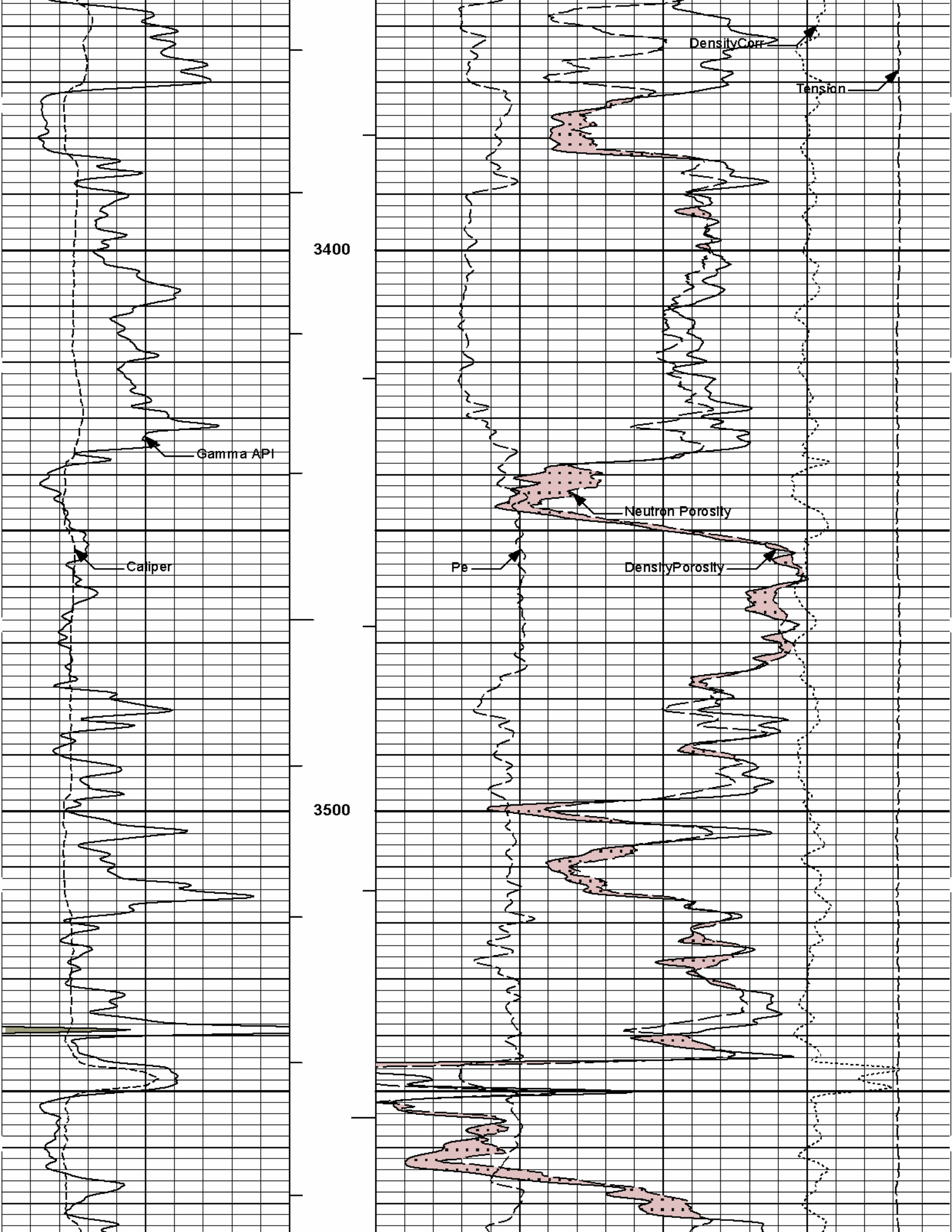
3300

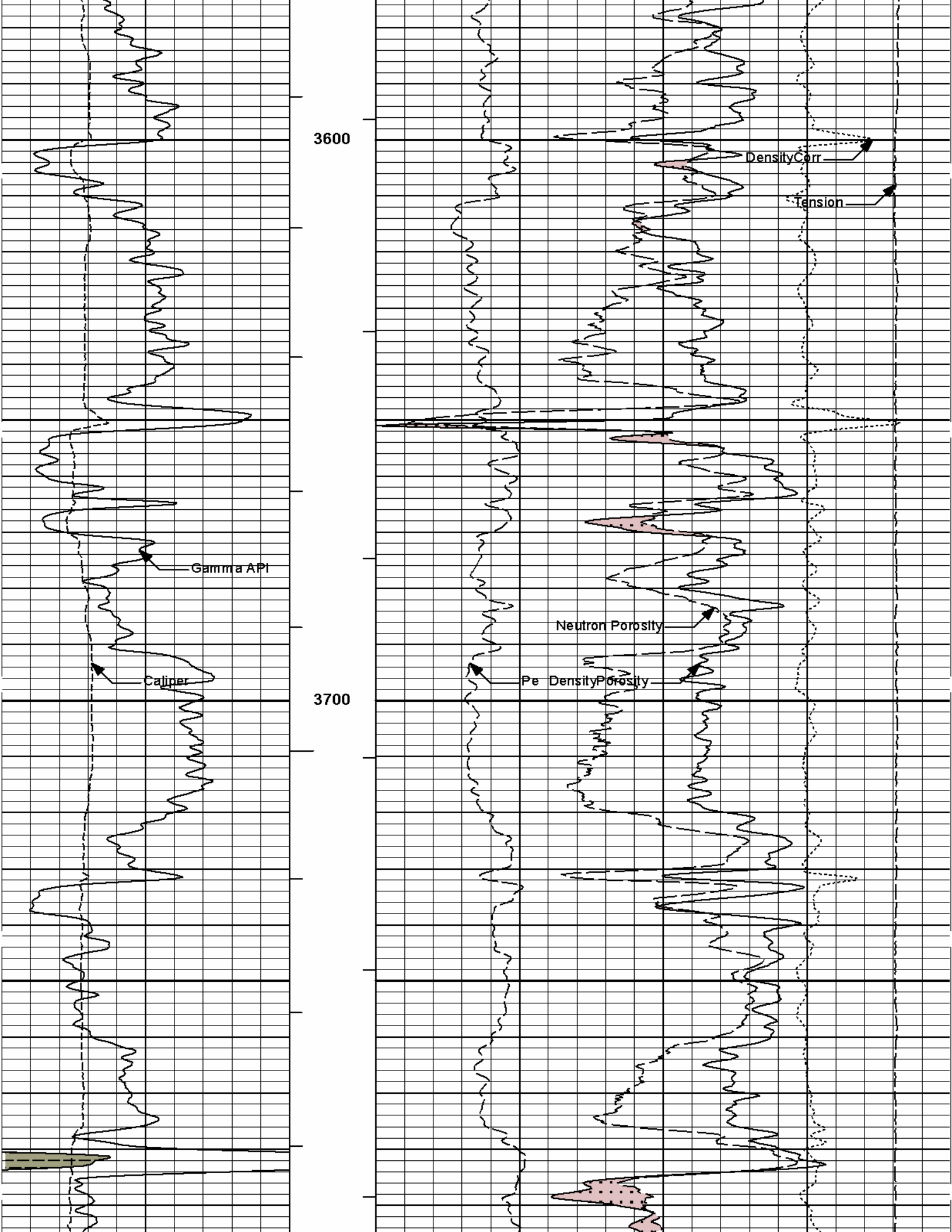


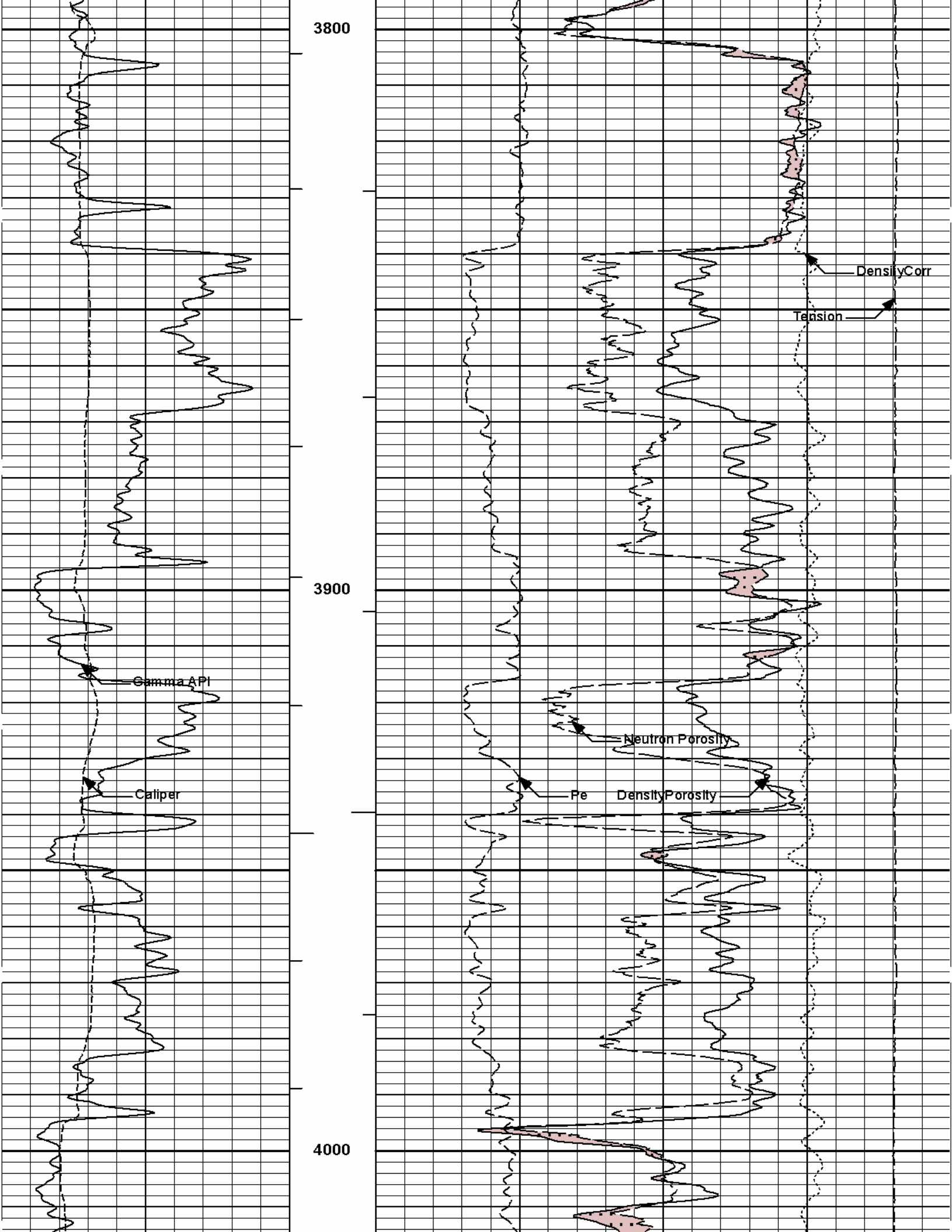
Neutron Porosity

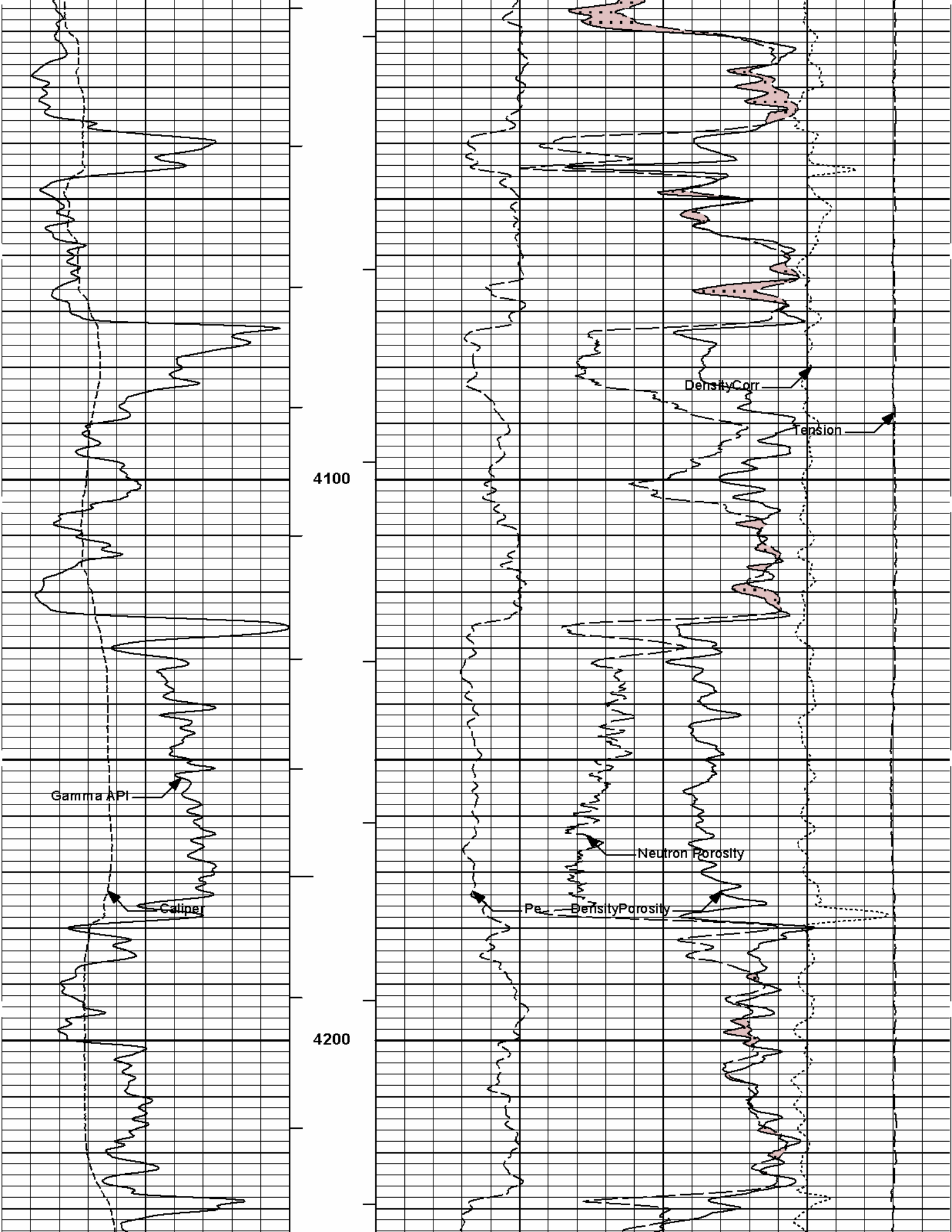
Density Porosity

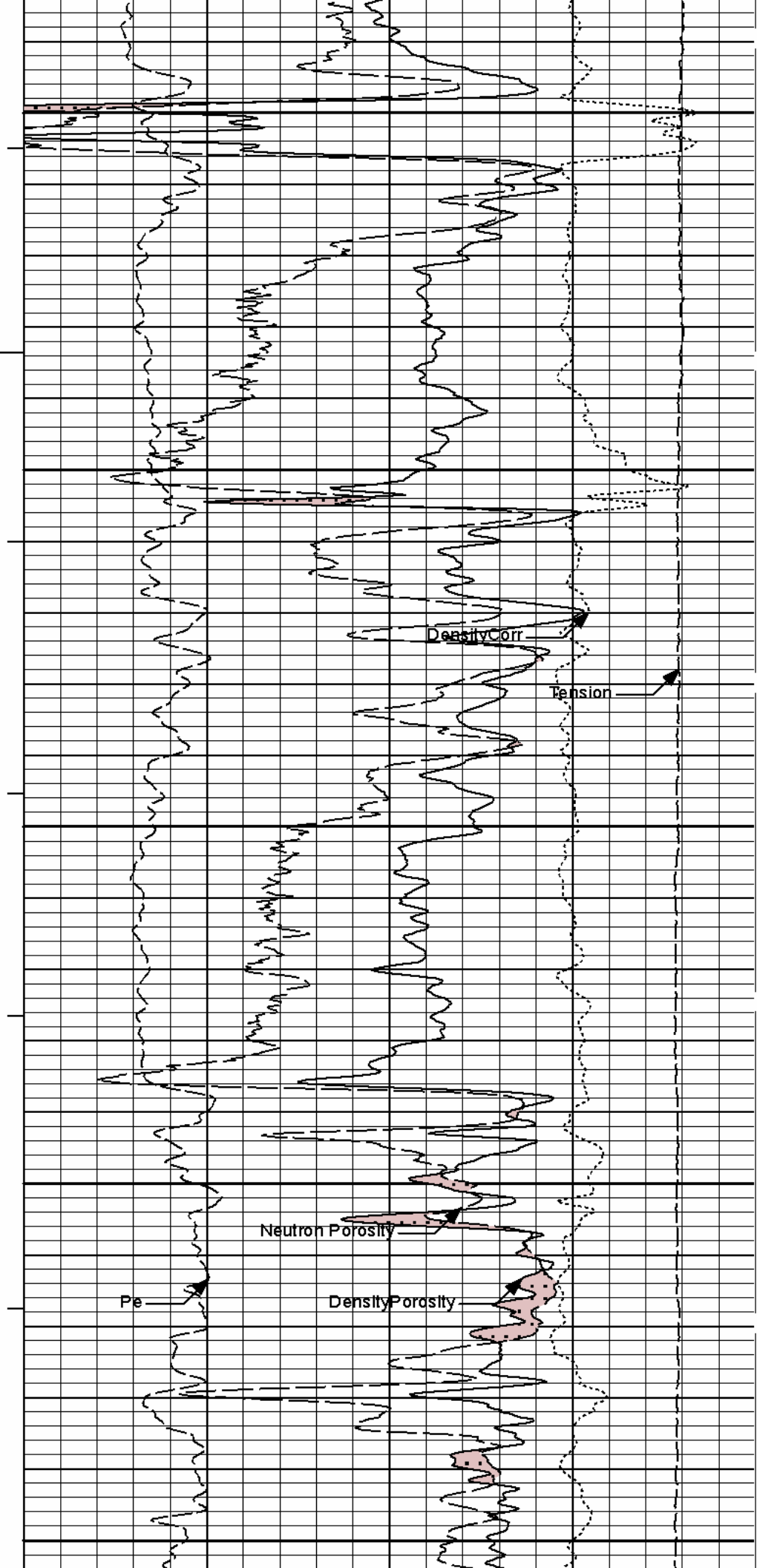
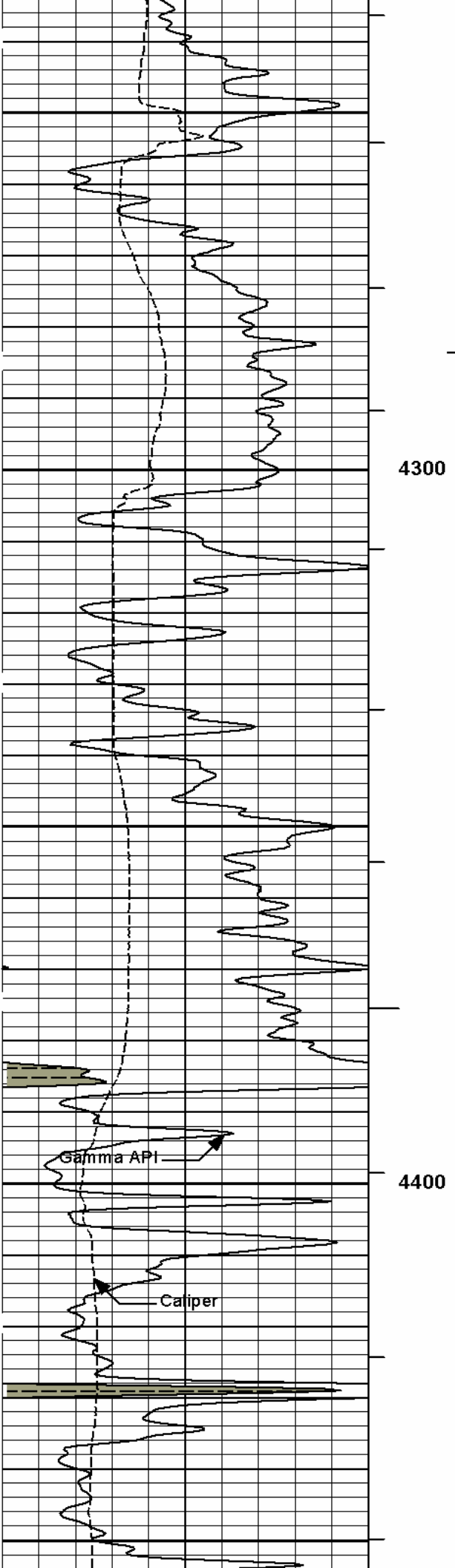
Pe

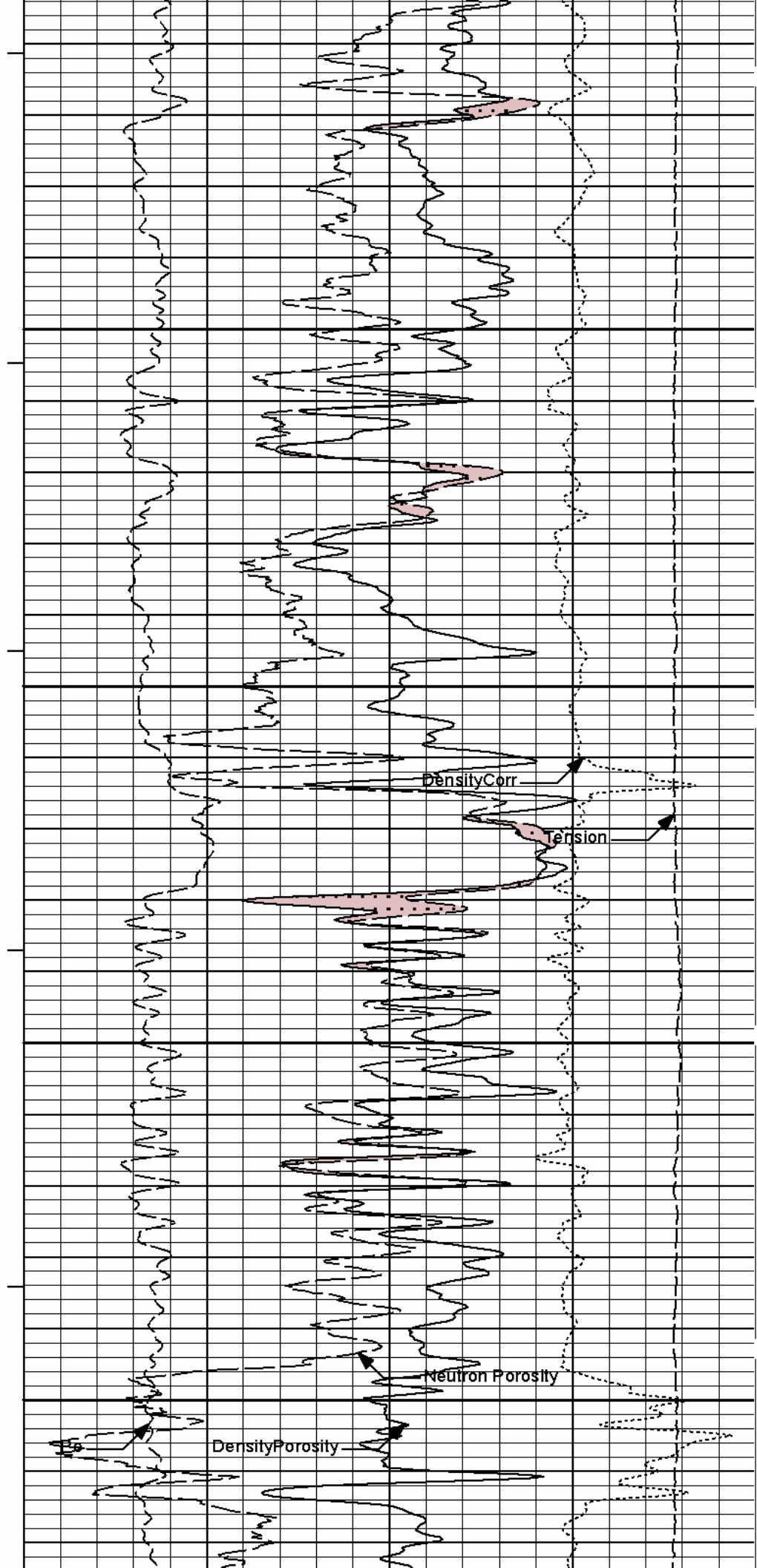
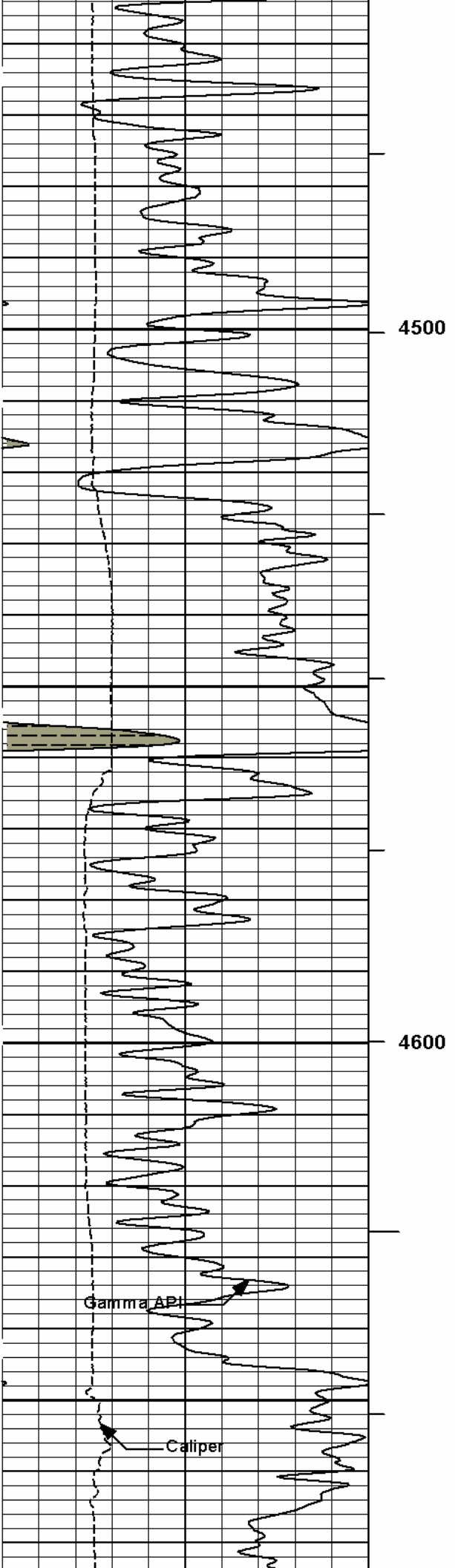


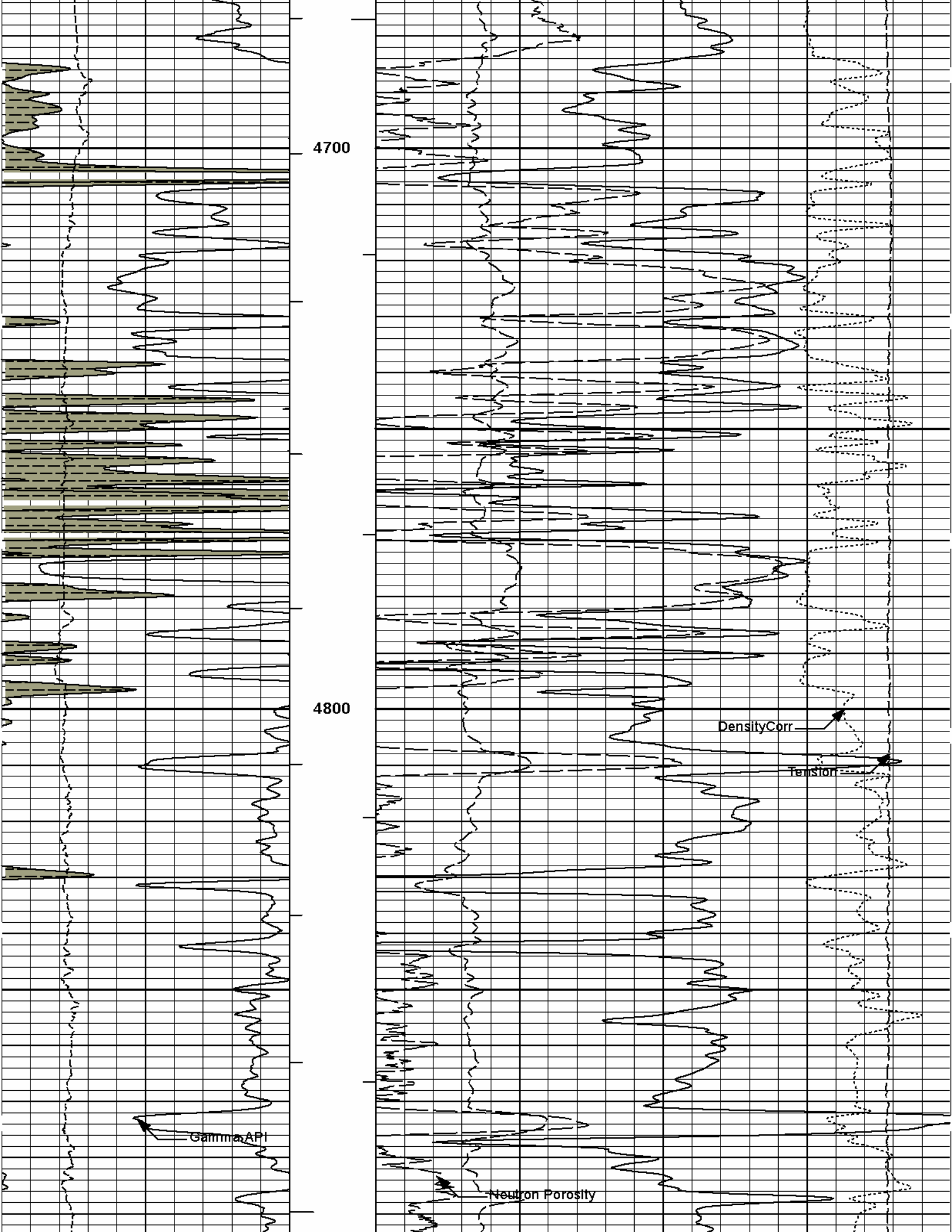


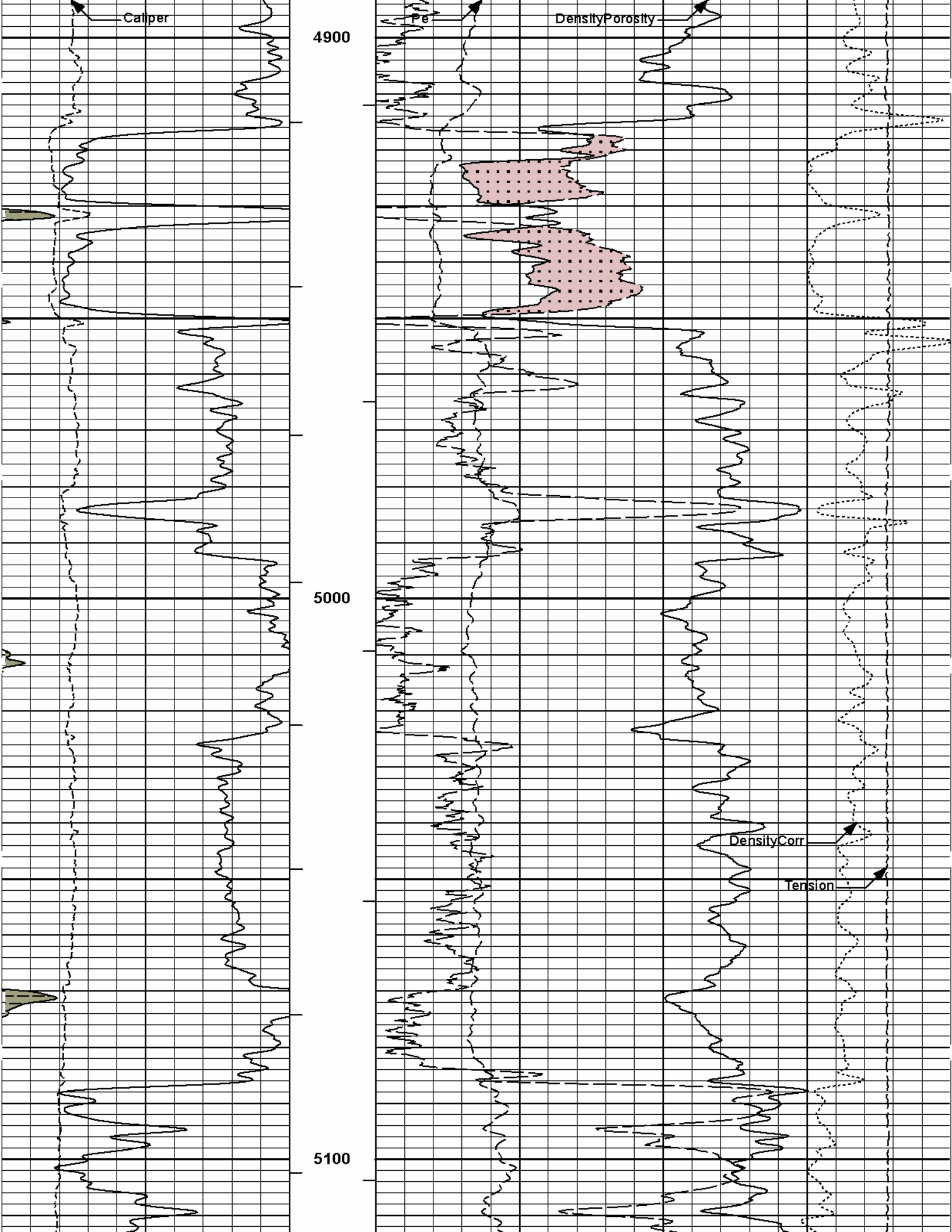


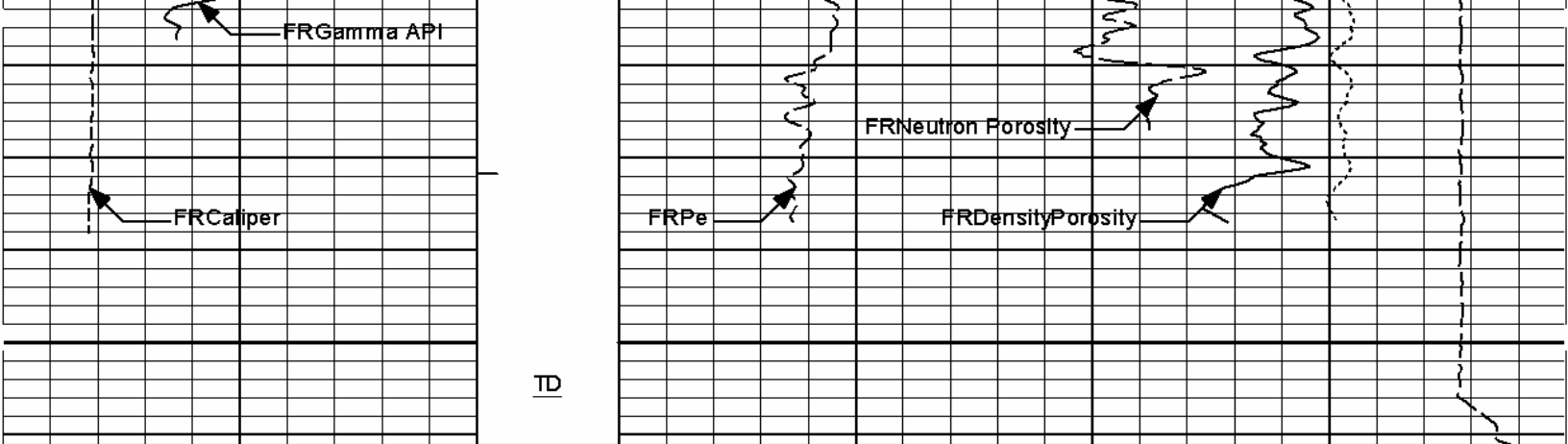












6	Caliper	16	1 : 240	0	Pe	10	-0.25	Density Corr	0.25
	inches		ft					gram per cc	
0	Gamma API	150	AHVT				15K	Tension	0
	api							pounds	
	SHALE		BHVT	30	Density Porosity				-10
					%				
			Tension Pull	30	Neutron Porosity				-10
			10 0		%				
			Tension Pull		CROSSOVER				

HALLIBURTON

Plot Time: 16-Jul-11 12:14:13
Plot Range: 1996 ft to 5161.17 ft
Data: BERRYMAN_RU_6_4\Well Based\DETAIL\

Plot File: \\PORO\Porosity_Q_5_MAIN_LIB

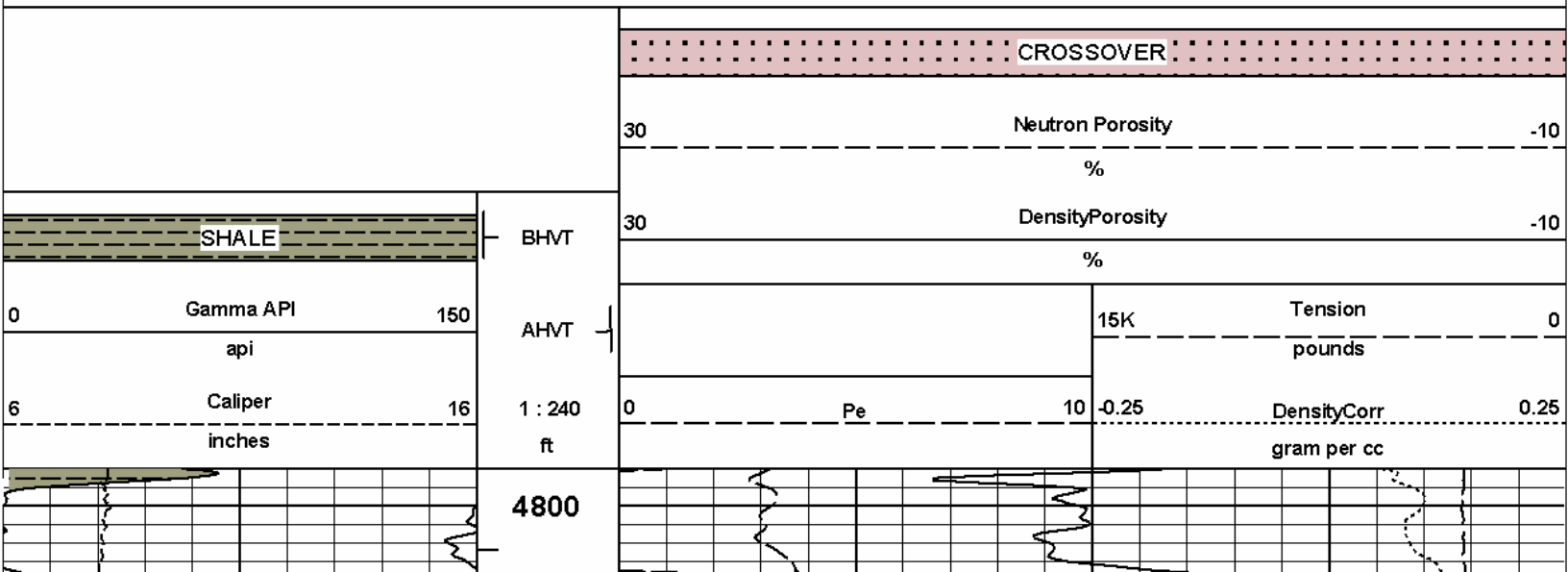
5 INCH MAIN LOG

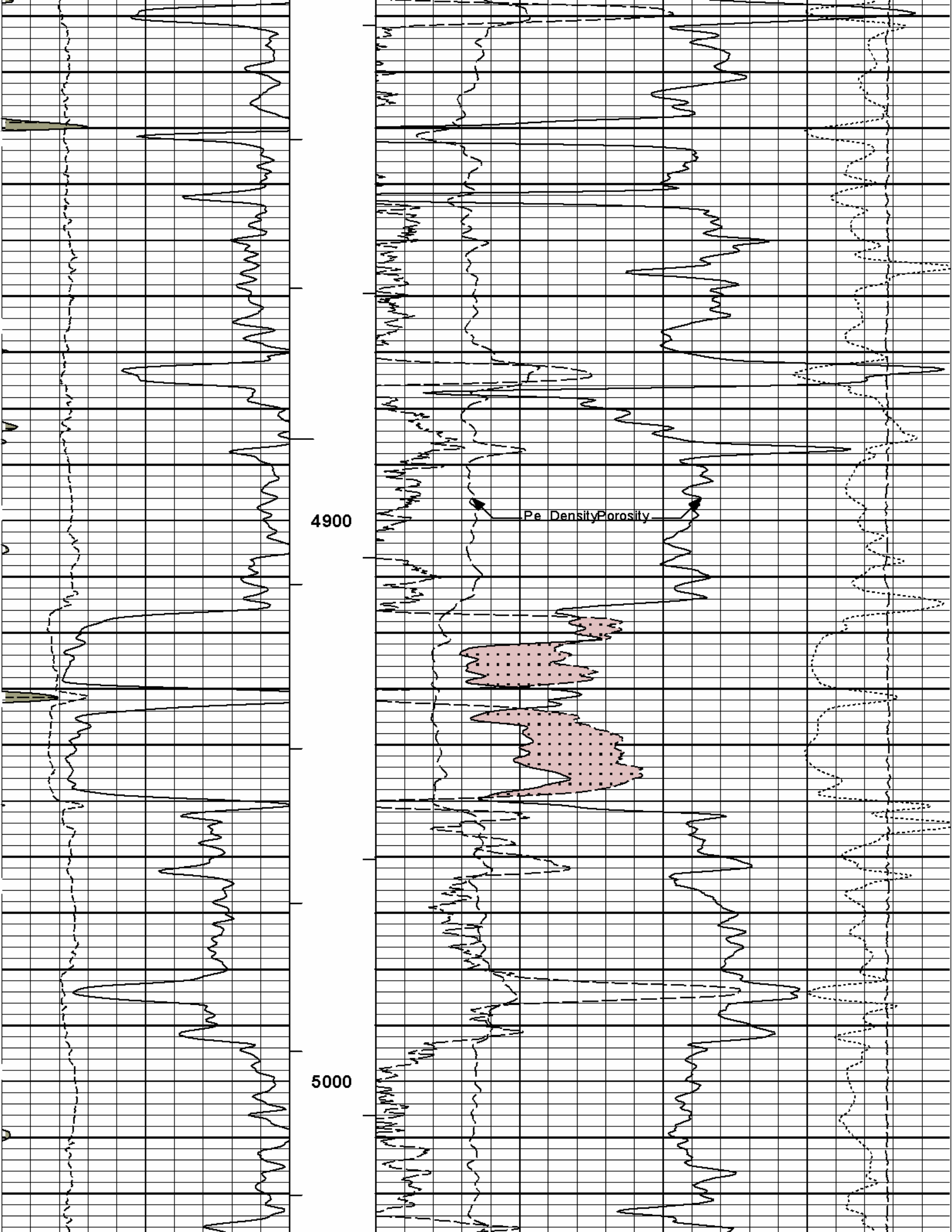
HALLIBURTON

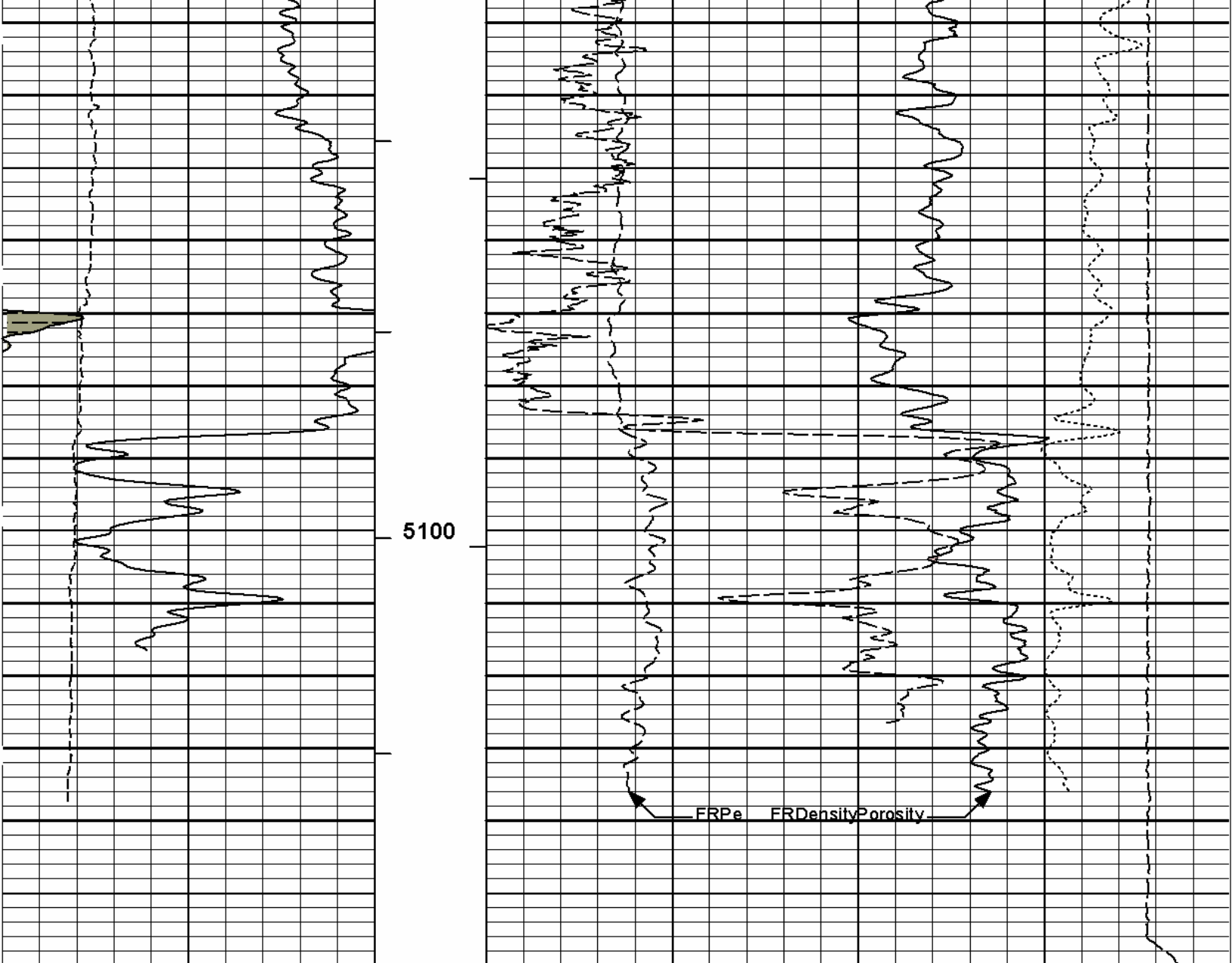
Plot Time: 16-Jul-11 12:14:13
Plot Range: 4796 ft to 5160.25 ft
Data: BERRYMAN_RU_6_4\Well Based\REPEAT\

Plot File: \\PORO\Porosity_Q_5_REP_LIB

REPEAT SECTION







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				

HALLIBURTON

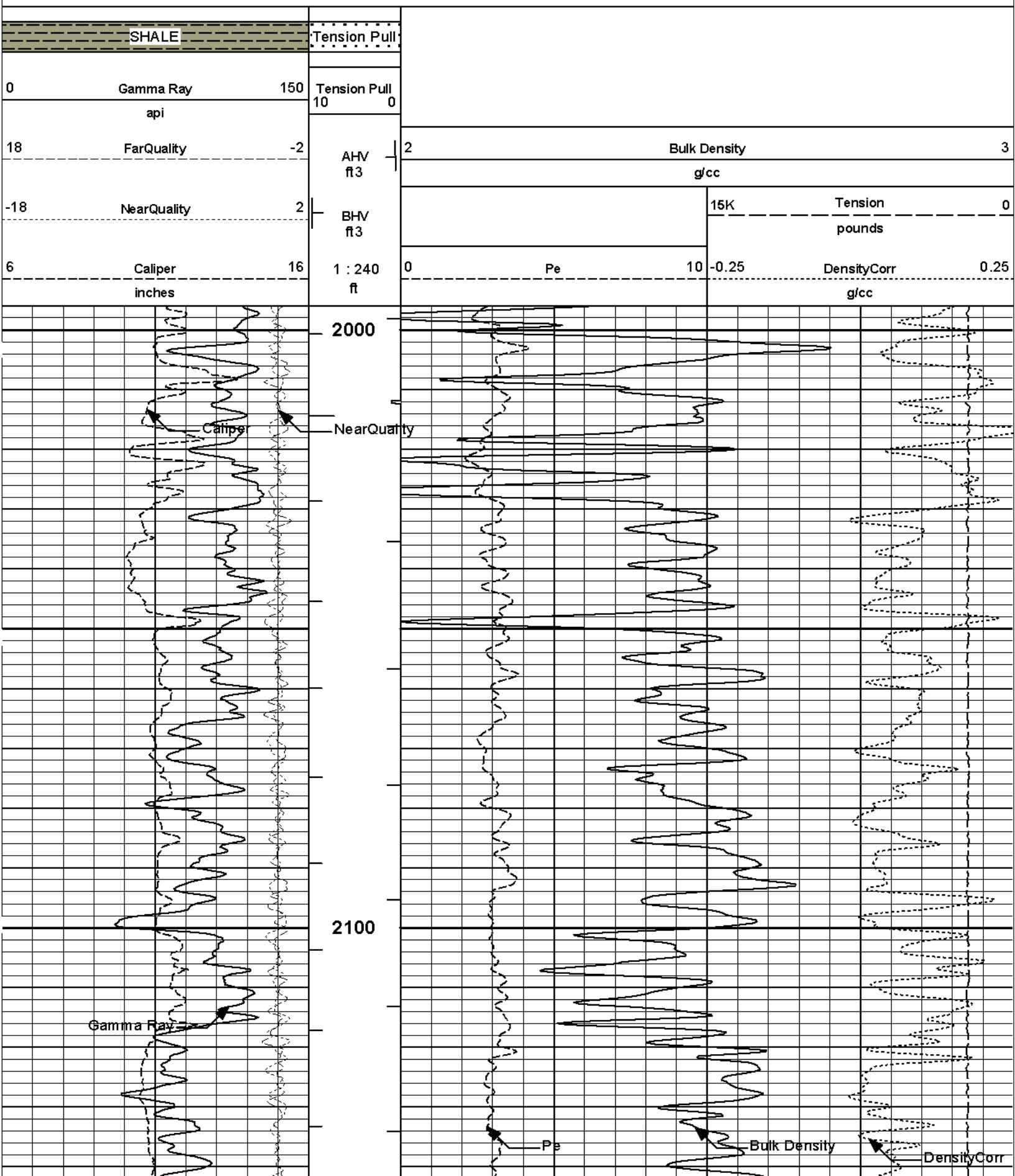
Plot Time: 16-Jul-11 12:14:18
 Plot Range: 4796 ft to 5160.25 ft
 Data: BERRYMAN_RU_6_4\Well Based\REPEAT\
 Plot File: \\PORO\Porosity_Q_5_REP_LIB

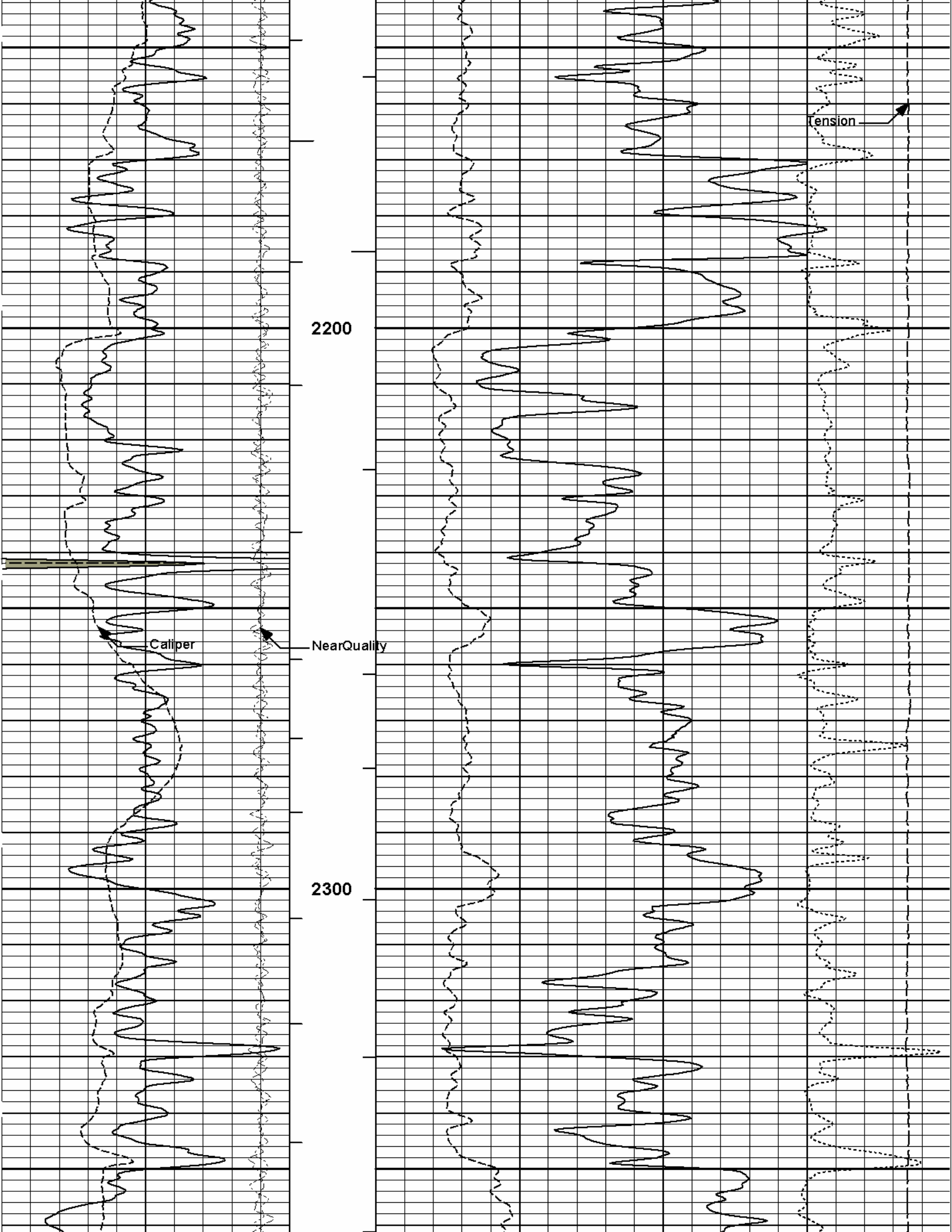
REPEAT SECTION

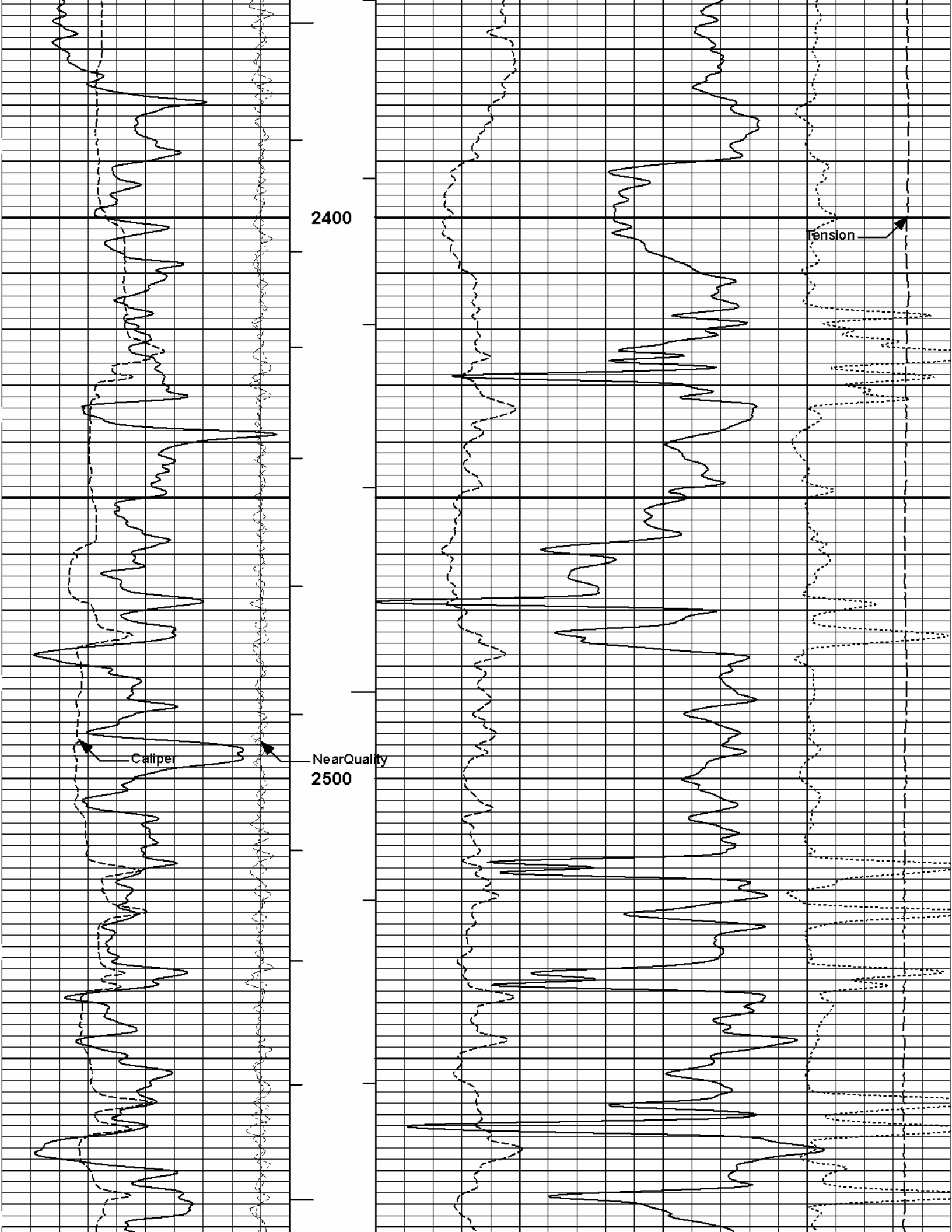
HALLIBURTON

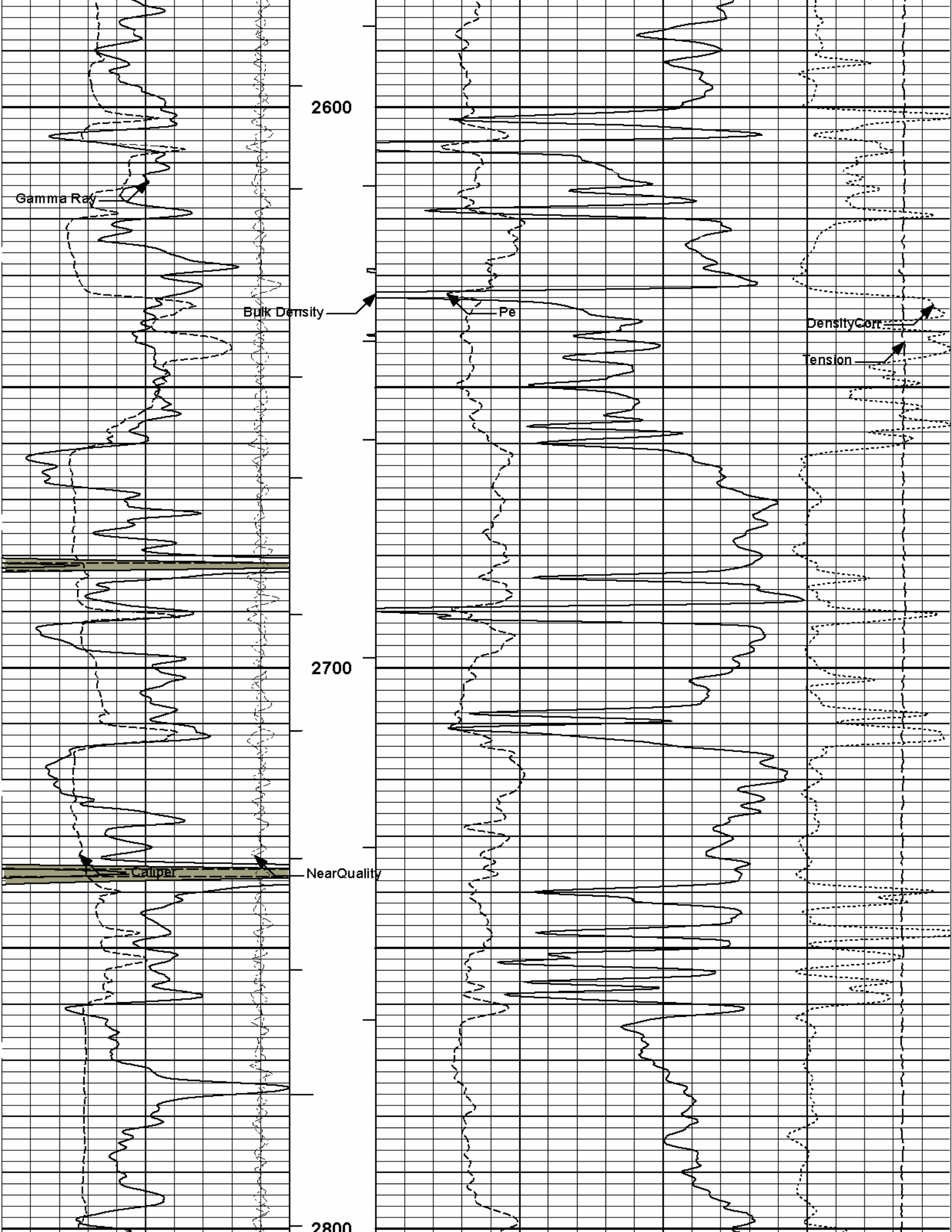
Plot Time: 16-Jul-11 12:14:18
 Plot Range: 4096 ft to 5160.25 ft

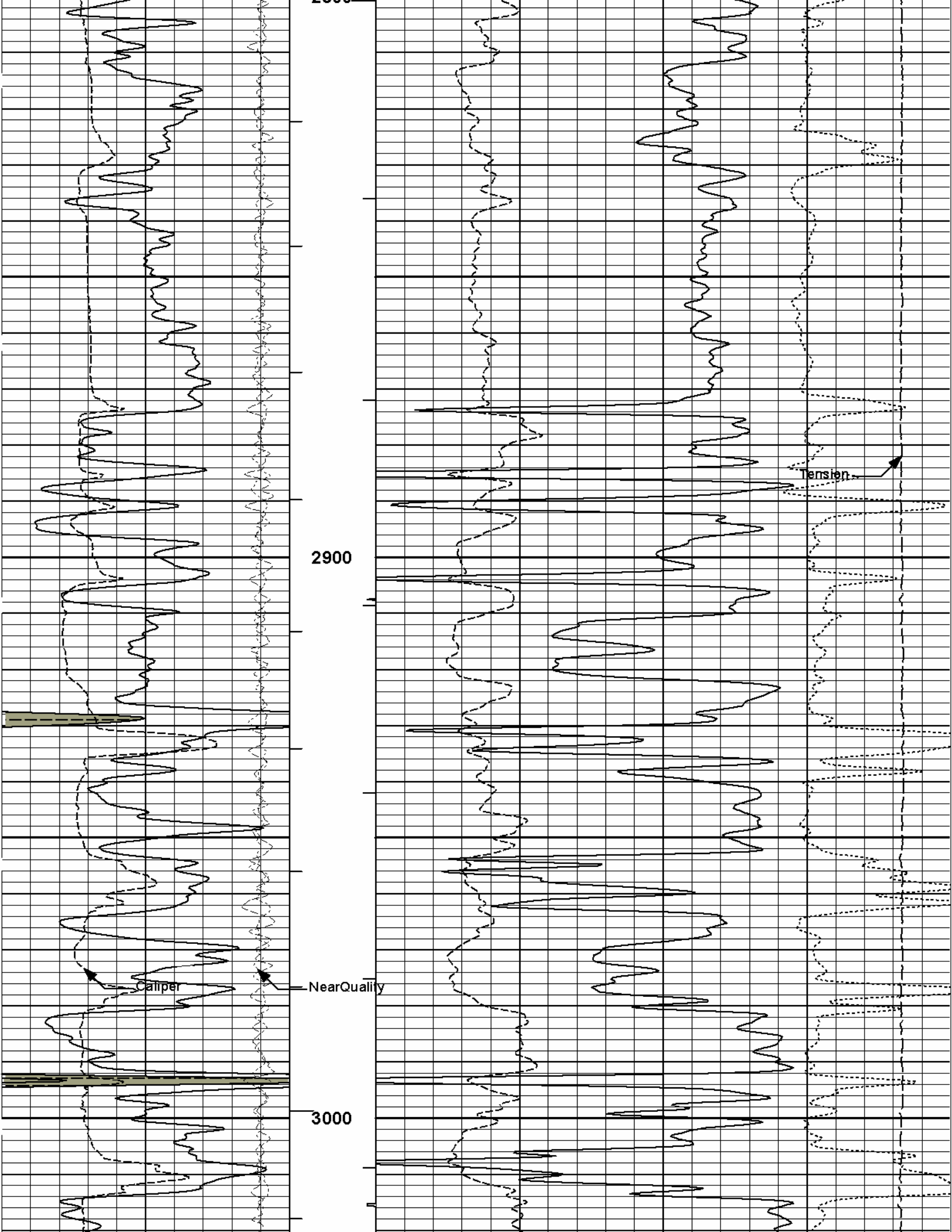
5 INCH MAIN LOG

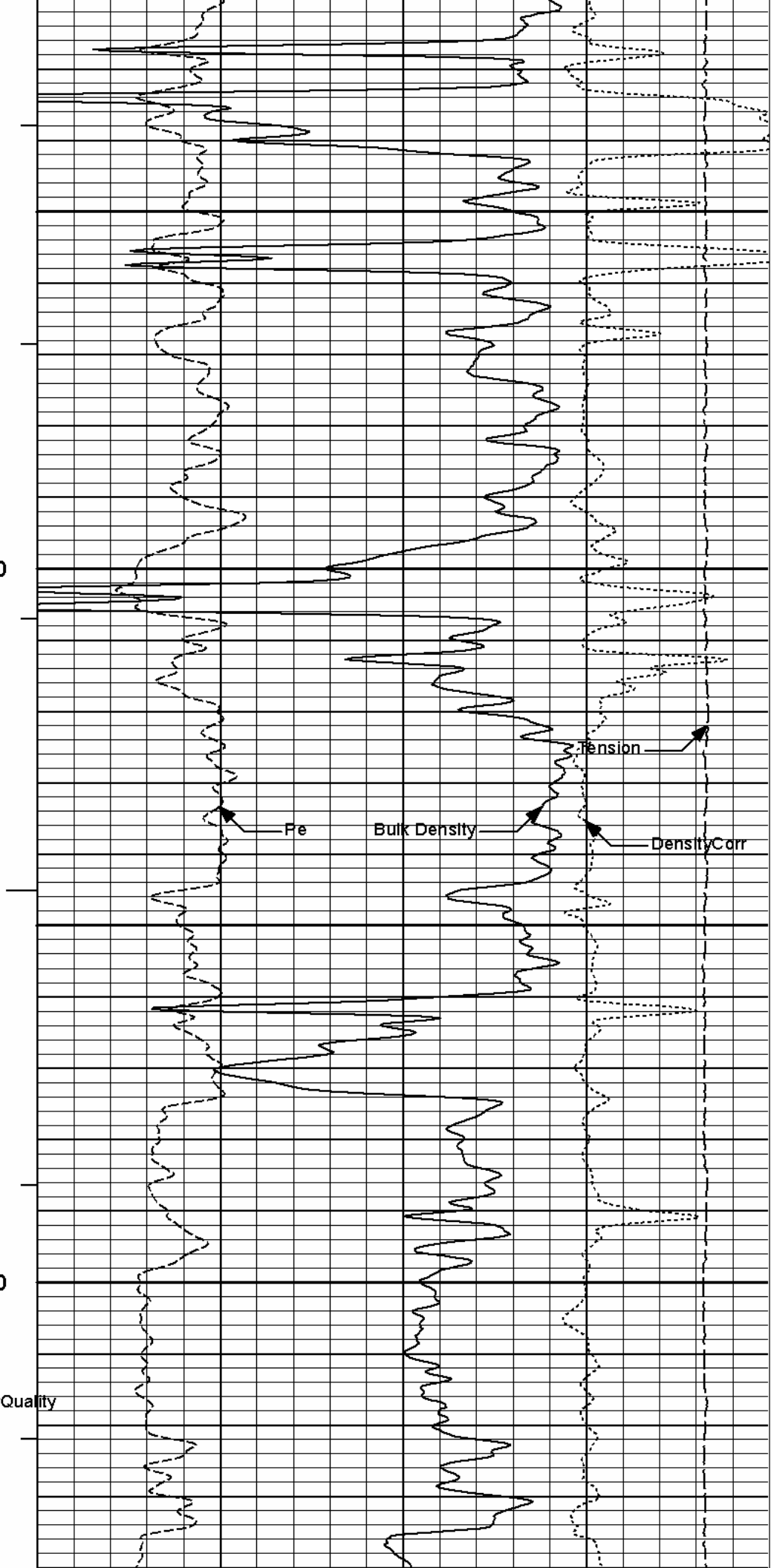
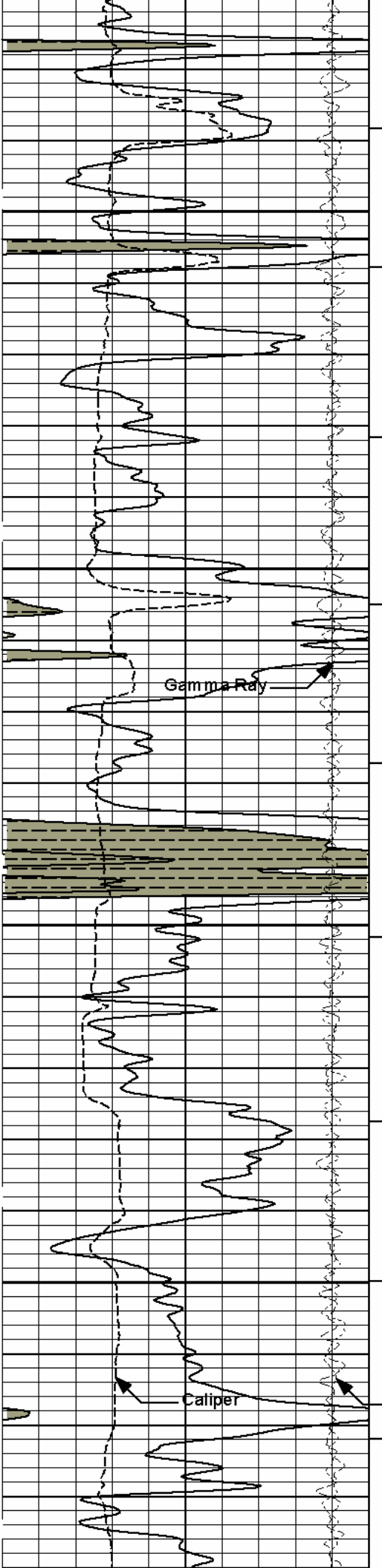


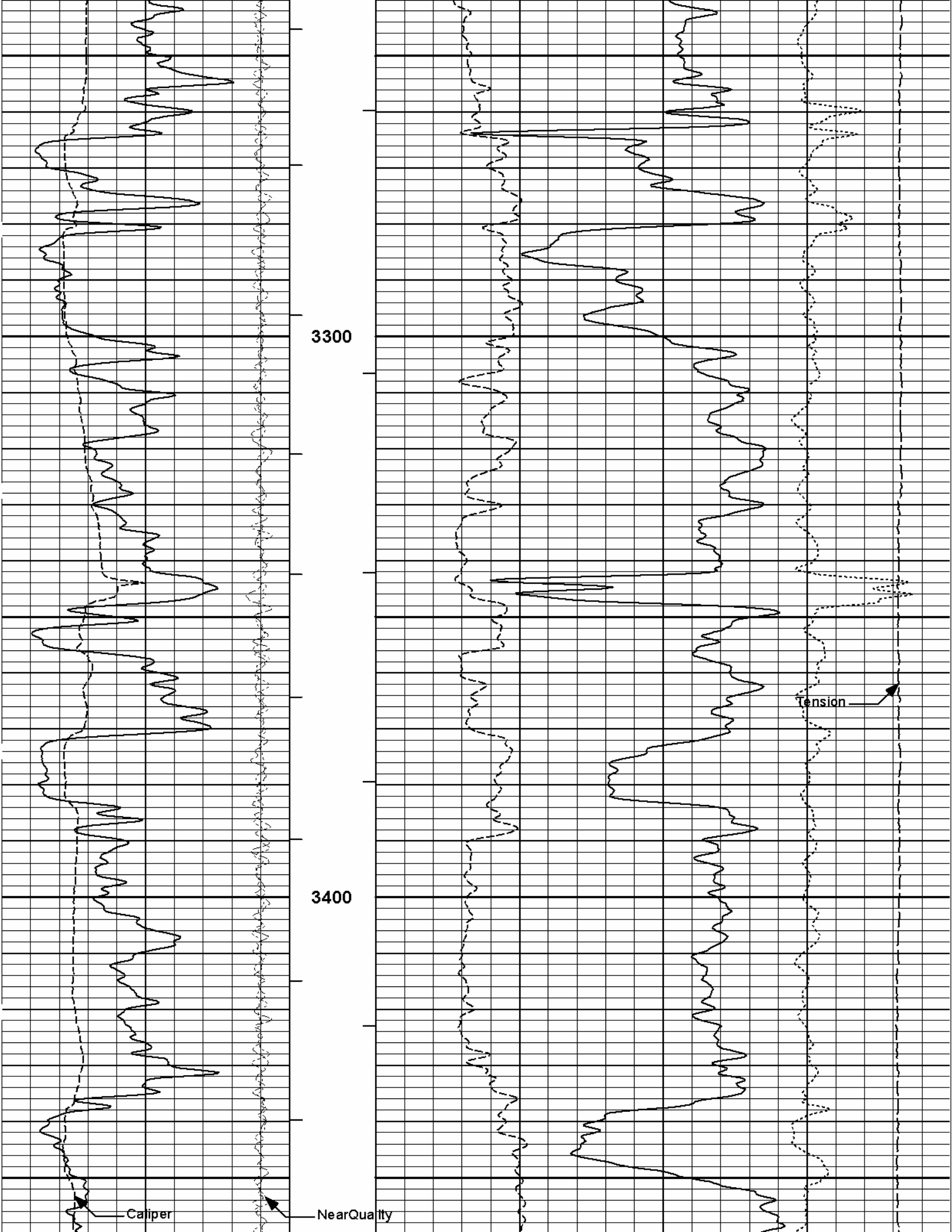


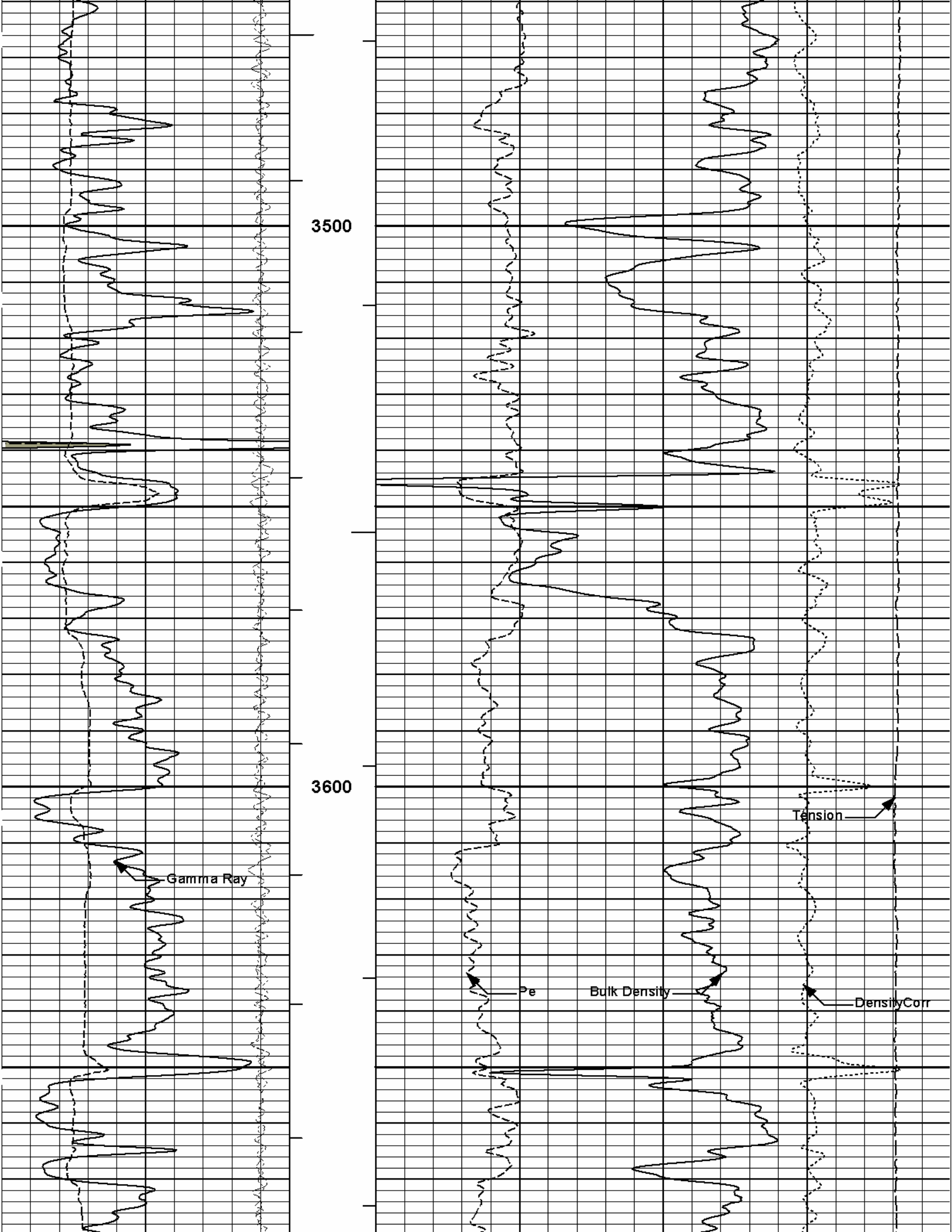


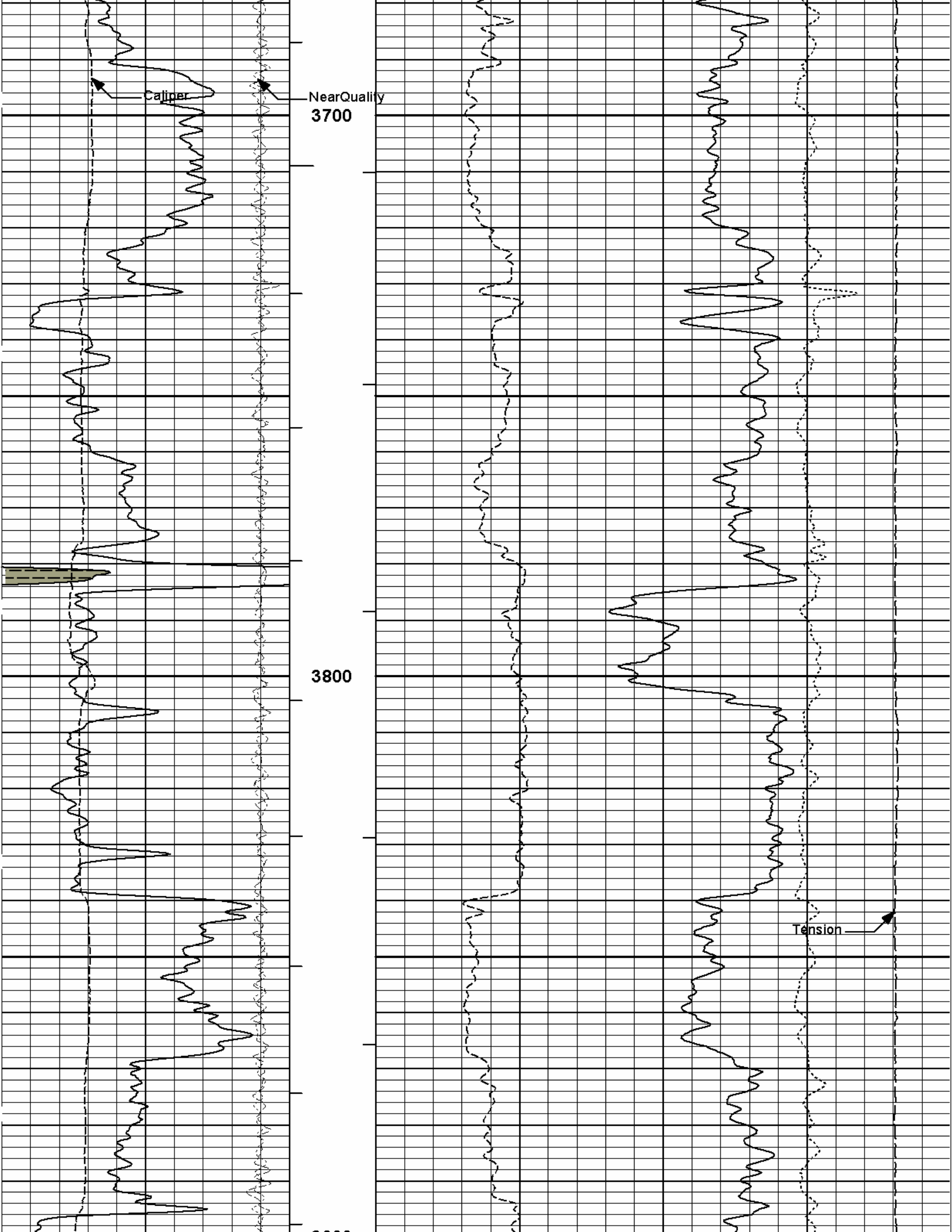


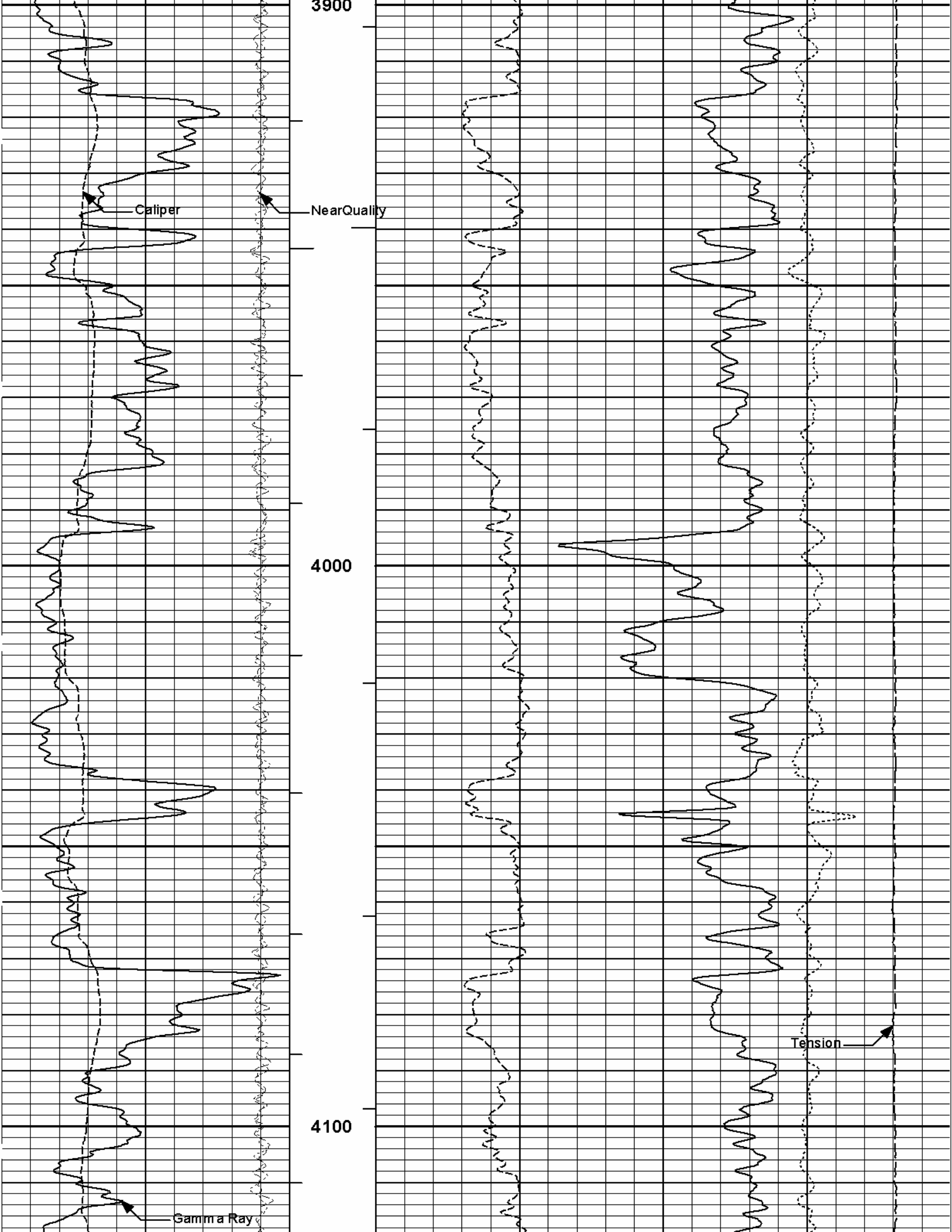


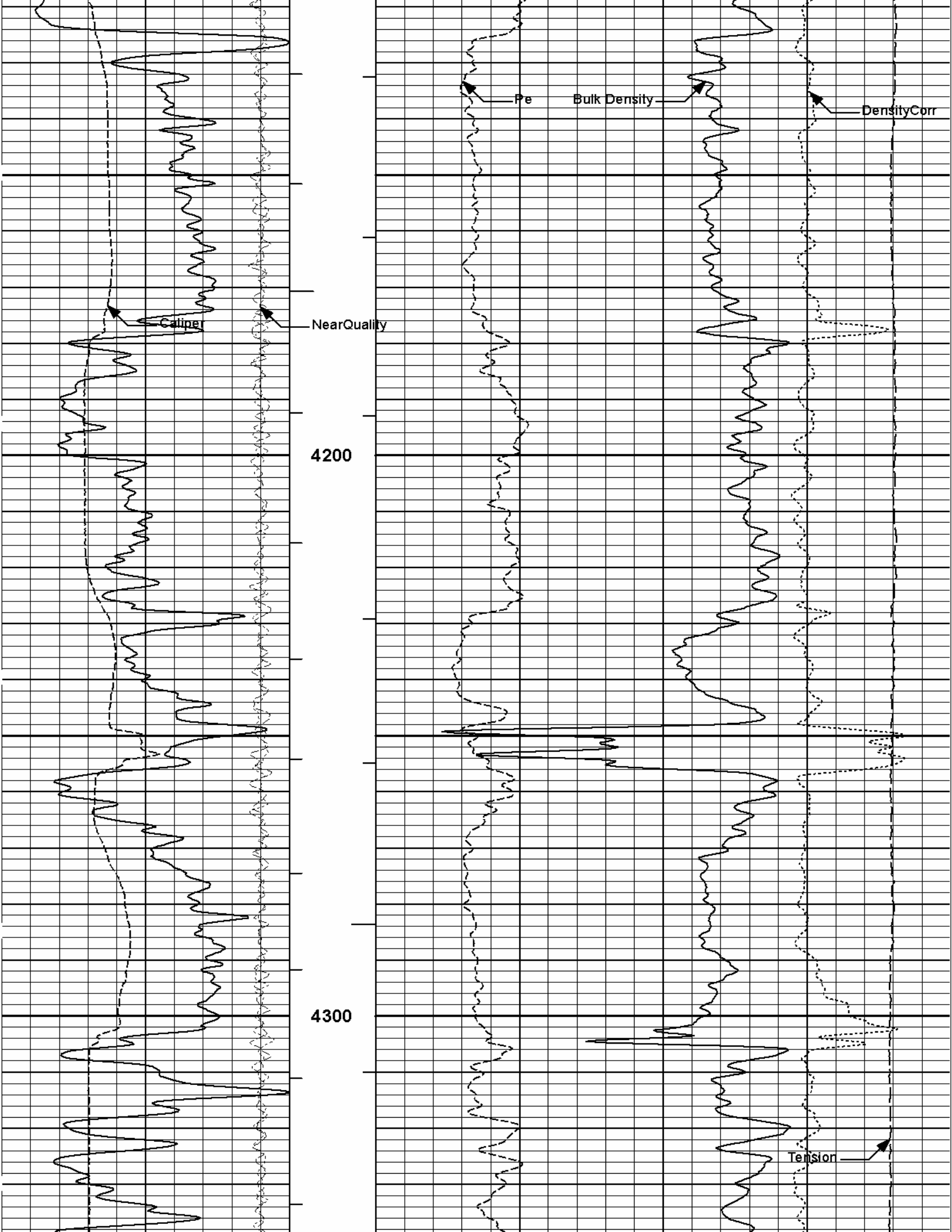


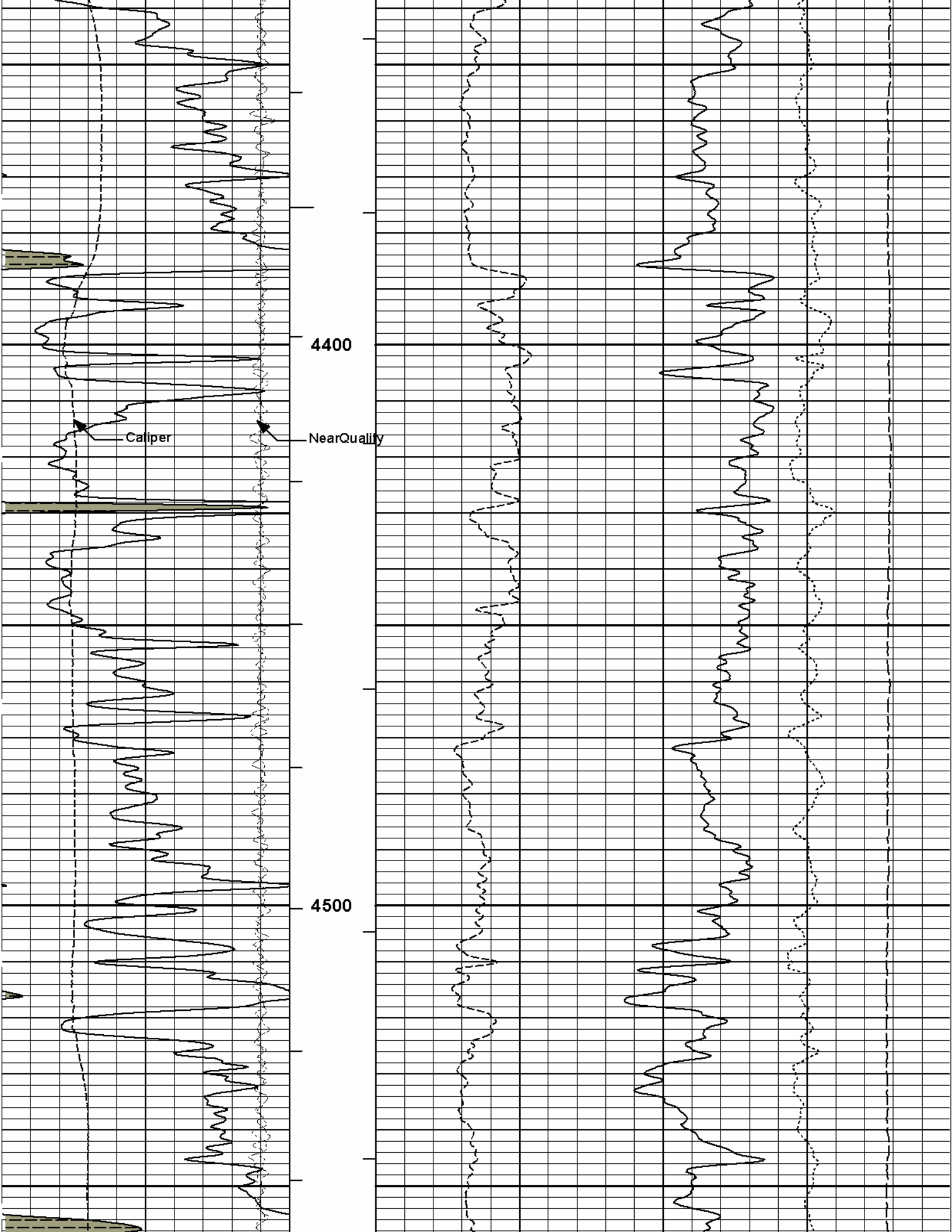


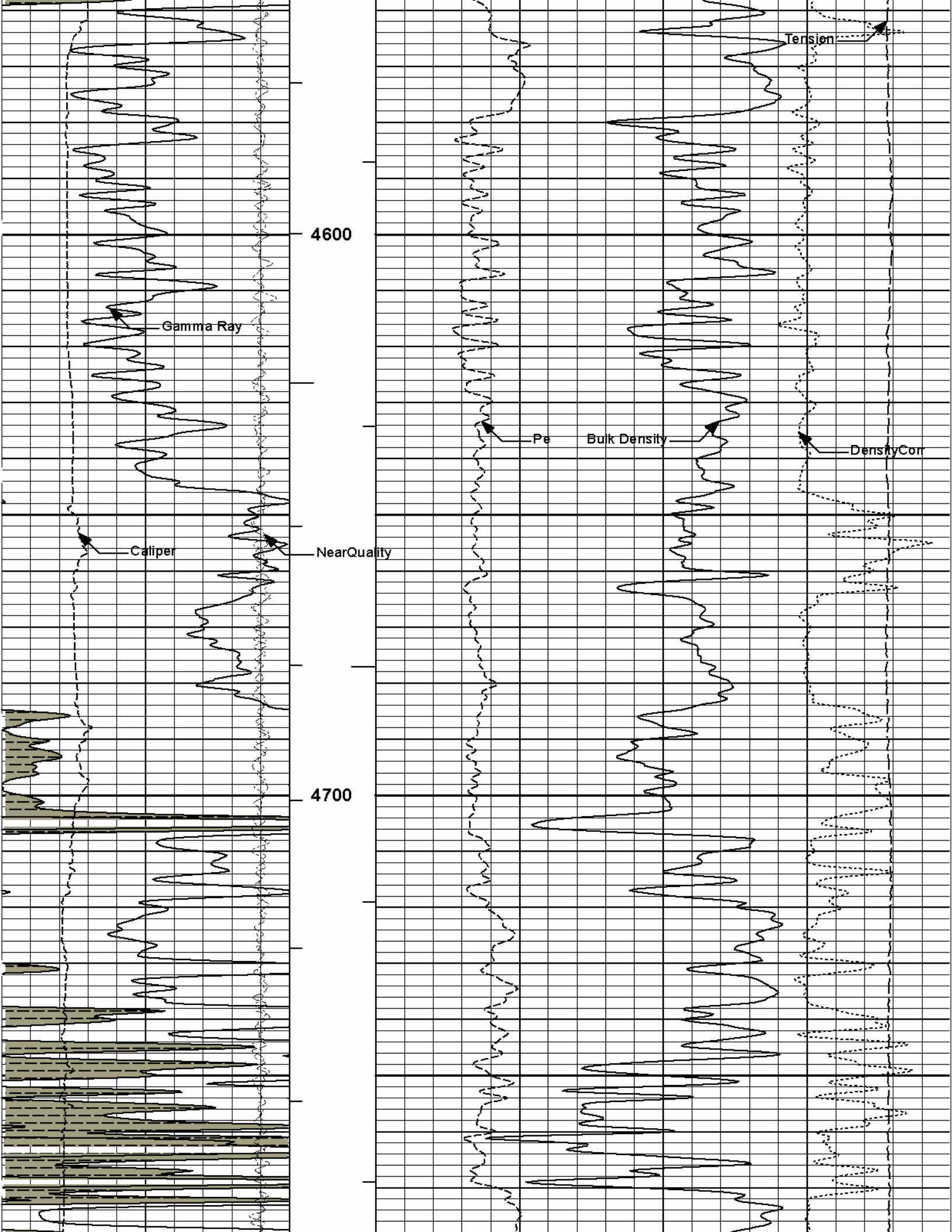


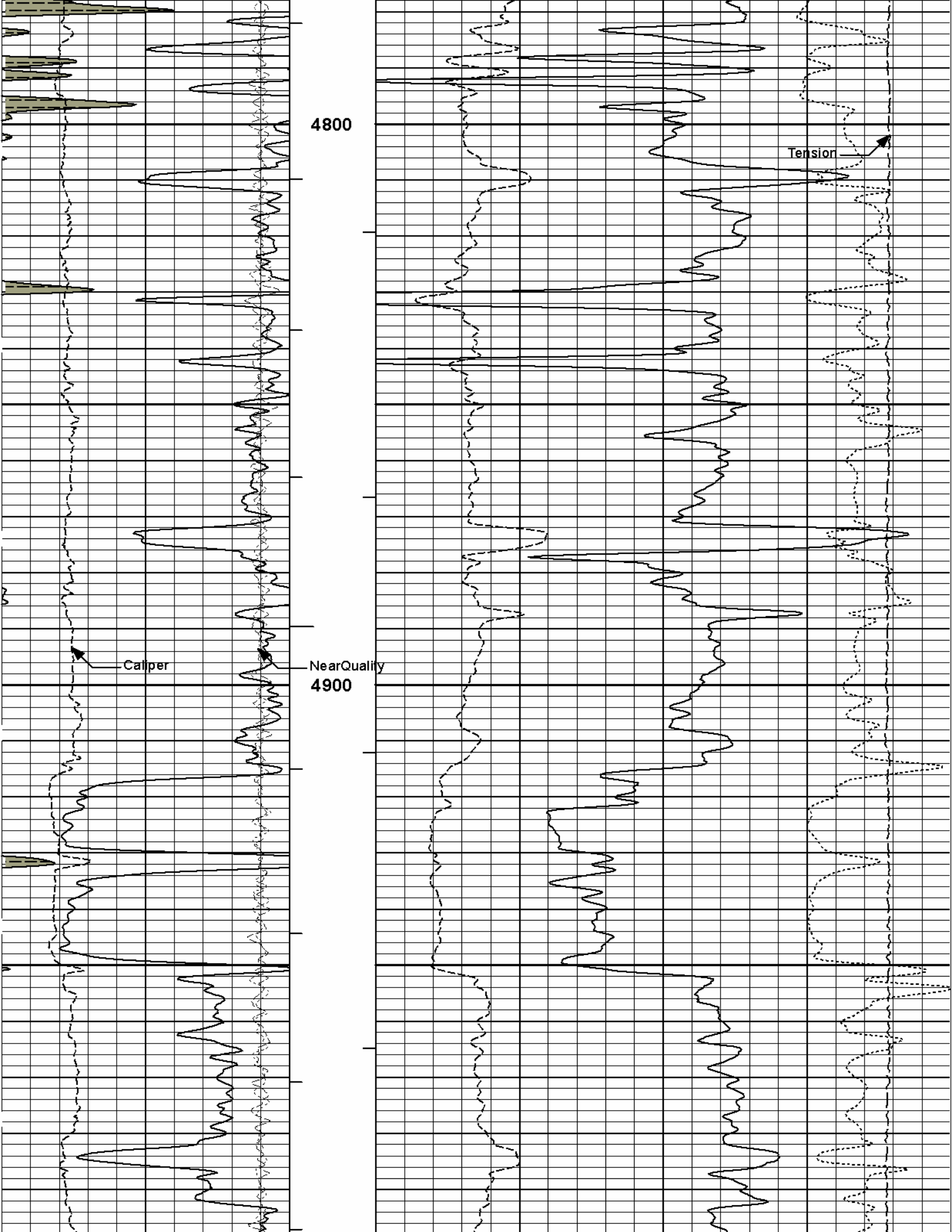


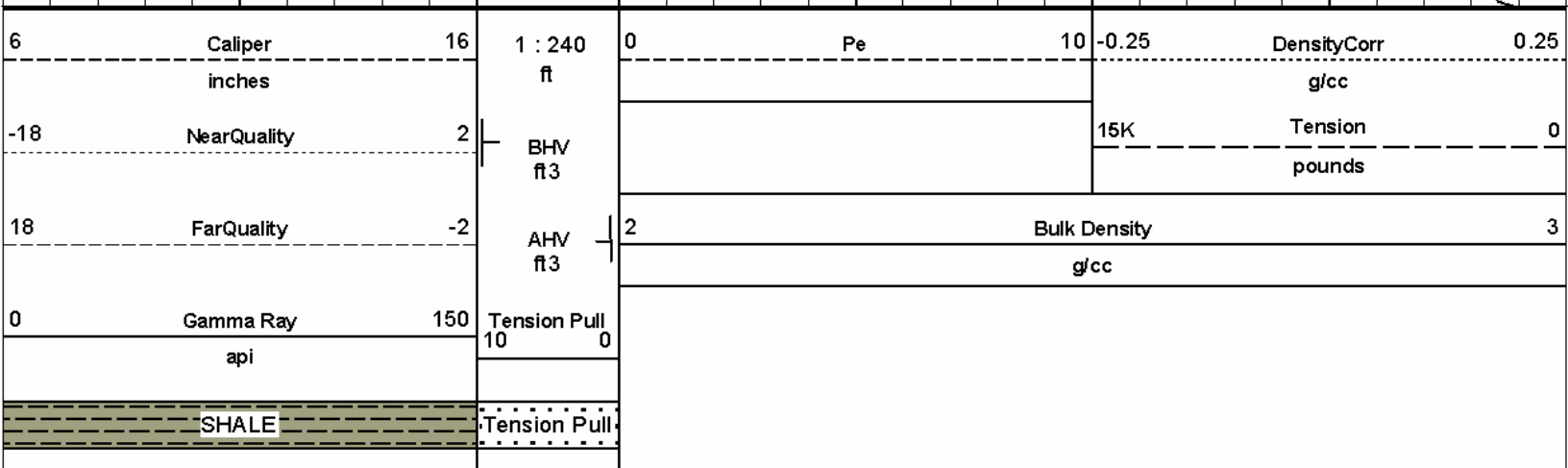






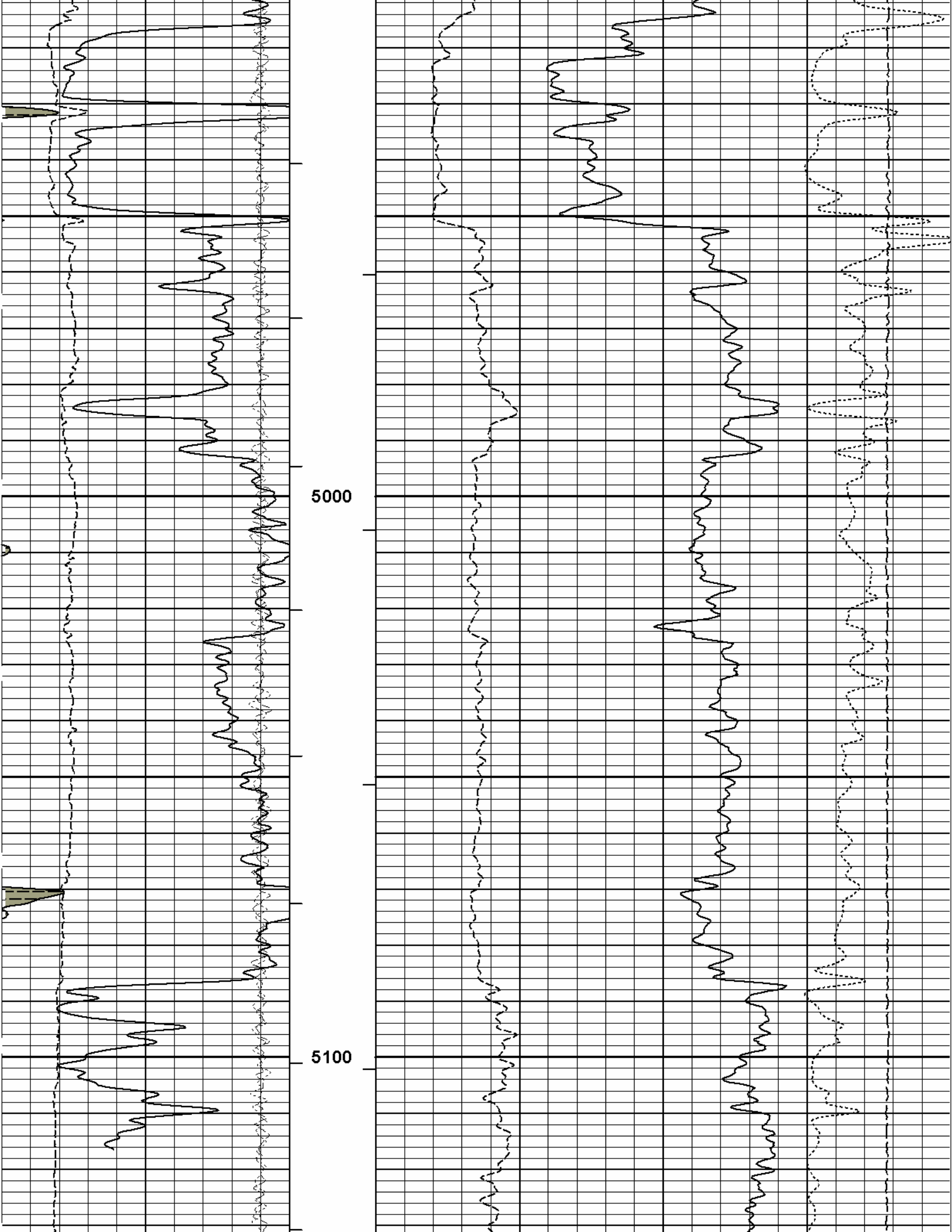






Plot File: \\-LOCAL-\\BERRYMAN_RU_6_4\\0001 SP-GTET-DSN-SDL-ACRT-CH\\PORO\\BULKD_5_MAIN_LIB

SHALE				
0	Gamma Ray	150		
api				
18	FarQuality	-2	AHV ft3	2 Bulk Density 3
			g/cc	
-18	NearQuality	2	BHV ft3	15K Tension 0
			pounds	
6	Caliper	16	1 : 240 ft	0 Pe 10 -0.25 DensityCorr 0.25
inches			g/cc	
			4800	
			4900	



6	Caliper	16	1 : 240 ft	0	Pe	10	-0.25	DensityCorr	0.25
	inches							g/cc	
-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

Plot Time: 16-Jul-11 12:14:26

Plot Range: 4796 ft to 5160.25 ft

Data: BERRYMAN RU 6 4\Well Based\REPEAT\

Plot File: \\-LOCAL-\\BERRYMAN RU 6 4\\0001 SP-GTET-DSN-SDL-ACRT-CH\\PORO\\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 @ 55.54 ft	3.03 ft	56.57 ft
XOHD-TRK696 20.00 lbs		Ø 2.750 in → Ø 3.625 in →		←	0.95 ft	53.54 ft
					←	52.59 ft
SP Sub-PROT01 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	48.85 ft
					←	48.85 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	40.33 ft
					←	40.33 ft
	DSN Decentralizer-					



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	53.54	300.00
XOHD	Hostile to Dits Cross Over	TRK696	20.00	0.95	52.59	300.00
SP	SP Sub	PROT01	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	11048627	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	I04_P84	360.00	10.81	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			1,078.10	56.57		
* Not included in Total Length and Length Accumulation.						
Data: BERRYMAN_RU_6_4\0001 SP-GTET-DSN-SDL-ACRT-CHNDLE					Date: 16-Jul-11 08:51:42	

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11048627

Reference Calibration Date: 30-Jun-11 14:28:57

Engineer: S. JUNG

Calibration Date: 02-Jul-11 03:38:33

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	47.5	43.8	api
Background + Calibrator	334.6	308.8	api
Calibrator	261.3	265.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11048627

Reference Calibration Date: 02-Jul-11 03:38:33

Engineer: J. BOSH

Calibration Date: 16-Jul-11 08:00:20

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	43.8	44.4	api
Background + Calibrator	308.8	309.2	api
Calibrator	265.0	264.8	api

Shop	Field	Difference	Tolerance
265.0	264.8	0.2	+/- 9.00

NATURAL GAMMA RAY TOOL POST CALIBRATION

Tool Name: GTET - 11048627

Reference Calibration Date: 16-Jul-11 08:00:20

Engineer: C. HAVERKAMP

Calibration Date: 16-Jul-11 12:02:01

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	44.4	50.7	api
Background + Calibrator	309.2	311.7	api
Calibrator	264.8	261.0	api

Shop	Field	Post	Difference	Tolerance
265.0	264.8	261.0	3.8	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11055304

Reference Calibration Date: 13-Jun-11 11:38:55

Engineer: C. PARKER

Calibration Date: 06-Jul-11 10:45:13

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: 89 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.985	0.988	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):	0.2102	0.2110	0.0007	+/- 0.0020
Calibrated Ratio:	9.70	9.73	0.025	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0743	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:	06-Jul-11 10:45:13
Engineer:	J. BOSH	Calibration Date:	16-Jul-11 08:03:03
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):	0.0743	0.0665	-0.0078	+/- 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:	16-Jul-11 08:03:03
Engineer:	C. HAVERKAMP	Calibration Date:	16-Jul-11 12:04:58
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 POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0665	0.0814	0.0149	+/- 0.0150

PASS/FAIL SUMMARY

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

Passed
Passed
Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT - I04_P84

Reference Calibration Date: 09-Jun-11 12:12:05

Engineer: J. BOSH

Calibration Date: 15-Jul-11 10:45:33

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	0.9730	1.0312	0.90 - 1.10
Near Dens Gain	0.9539	1.0105	0.90 - 1.10
Near Peak Gain	0.9164	1.0110	0.90 - 1.10
Near Lith Gain	0.9029	0.9871	0.90 - 1.10
Far Bar Gain	1.0050	1.0134	0.90 - 1.10
Far Dens Gain	0.9943	1.0017	0.90 - 1.10
Far Peak Gain	0.9896	0.9977	0.90 - 1.10
Far Lith Gain	0.9637	0.9743	0.90 - 1.10
Near Bar Offset	0.3892	-0.1779	NONE
Near Dens Offset	0.5216	-0.0016	NONE
Near Peak Offset	0.7836	-0.0320	NONE
Near Lith Offset	0.8593	0.1287	NONE
Far Bar Offset	0.0327	-0.0708	NONE
Far Dens Offset	0.0960	0.0061	NONE
Far Peak Offset	0.0937	0.0025	NONE
Far Lith Offset	0.2445	0.1281	NONE
Near Bar Background	772.91	774.77	700 - 1450
Near Dens Background	250.52	252.95	230 - 480
Near Peak Background	109.08	110.51	100 - 210
Near Lith Background	135.85	136.63	125 - 260
Far Bar Background	534.97	532.33	450 - 900
Far Dens Background	209.79	209.36	175 - 345
Far Peak Background	82.95	82.64	70 - 140
Far Lith Background	86.15	85.42	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	2.612	2.562	-0.050	+/- 0.150
ALUMINUM				
Density (g/cc)	2.594	2.598	0.004	+/- 0.01500
Pe	3.151	3.134	-0.017	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector	Far Detector
-------------	---------------	--------------

	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0008	+/- 0.0110	0.0001	+/- 0.0140
Magnesium Block	0.0002	+/- 0.0110	0.0003	+/- 0.0140
Aluminum Block	0.0011	+/- 0.0110	0.0021	+/- 0.0140
Resolution	9.11	6.00 - 11.50	8.92	6.00 - 11.50
Internal Verifier(B+D+P+L)	1275	1200 - 2700	910	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:	15-Jul-11 10:45:33
Engineer:	J. BOSH	Calibration Date:	16-Jul-11 08:00:44
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

Pad Temperature: 82.3 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1274.864	1272.387	-2.477	14.465
Far (B+D+P+L) cps	909.758	911.691	1.933	16.375
Near Resolution	9.11	9.33	0.220	0.50
Far Resolution	8.92	9.45	0.530	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:	16-Jul-11 08:00:44
Engineer:	C. HAVERKAMP	Calibration Date:	16-Jul-11 11:59:48
Software Version:	WL INSITE R3.2.0 (Build 7)	Calibration Version:	1

Pad Temperature: 96.4 degF

DENSITY POST CALIBRATION SUMMARY

Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1272.387	1276.193	3.806	14.465
Far (B+D+P+L) cps	911.691	921.818	10.127	16.375
Near Resolution	9.33	9.51	0.180	0.50
Far Resolution	9.45	9.62	0.170	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed

DENSITY CALIPER SHOP CALIBRATION**Tool Name:** SDLT - I04_P84**Reference Calibration Date:** 06-Jul-11 11:13:24**Engineer:** C. PARKER**Calibration Date:** 06-Jul-11 11:18:56**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	-3660.52	-4528.92	-7000.00 - -1000.00
Pad Gain	0.0003891	0.0004362	0.000200 - 0.000600
Arm Offset	-2332.50	-2306.72	-5000.00 - 3000.00
Arm Gain	0.0004848	0.0005863	0.000300 - 0.000700
Arm Power	-0.000003814	-0.000009382	-0.000010 - 0.000010

The ring diameter is computed from: $\text{DIAMETER} = \text{PAD EXTENSION} + \text{ARM EXTENSION} + \text{TOOL DIAMETER}$

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)	2.12	2.00	-0.12	+/- 0.20
Medium Ring (in)	3.68	3.75	0.07	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.06	8.25	0.19	+/- 0.20
Large Ring (in)	14.96	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:** 06-Jul-11 11:18:56**Engineer:** J. BOSH**Calibration Date:** 16-Jul-11 08:08:14**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	3.81	0.06	+/- 0.10
Ring Diameter	8.25	8.20	-0.05	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed

Diameter Check: Passed

SDLT CALIPER POST CALIBRATION**Tool Name:** SDLT - I04_P84**Reference Calibration Date:** 16-Jul-11 08:08:14**Engineer:** C. HAVERKAMP**Calibration Date:** 16-Jul-11 12:09:13**Software Version:** WL INSITE R3.2.0 (Build 7)**Calibration Version:** 1**MEASURED CALIPER VALUES**

Control Limit On

Measurement	Field	Post	Change	Control Limit On New Value
Pad Extension	3.81	3.87	0.06	+/- 0.10
Ring Diameter	8.20	8.08	-0.12	+/- 0.15
PASS/FAIL SUMMARY				
Pad Extension Check:			Passed	
Diameter Check:			Passed	

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11048627						
Gamma Ray Calibrator	265.0	264.8	261.0	3.8	+/- 9.00	api
DSNT-11055304						
Snow-Block Porosity	0.0743	0.0665	0.0814	-0.0149	+/- 0.0150	decg
SDLT-I04_P84						
Near(B+D+P+L)	1274.864	1272.387	1276.193	-3.806	+/-14.465	cps
Far(B+D+P+L)	909.758	911.691	921.818	-10.127	+/-16.375	cps
Pad Extension	3.75	3.81	3.87	-0.06	+/-0.10	in
Ring Diameter	8.25	8.20	8.08	0.120	+/-0.15	in
Data: BERRYMAN_RU_6_4\0001 SP-GTET-DSN-SDL-ACRT-CHVDLE					Date: 16-Jul-11 12:11:58	

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PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.200	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	2500.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.170	ohmm
	SHARED	TRM	Temperature of Mud	89.0	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	5157.00	ft
	SHARED	BHT	Bottom Hole Temperature	125.0	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	DNTT	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	
ACRt	RTOK	Process ACR?	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	
BOTTOM				
Data: BERRYMAN_RU_6_4\0001 SP-GTET-DSN-SDL-ACRT-CHNDLE			Date: 16-Jul-11 08:54:52	

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INPUTS, DELAYS AND FILTERS TABLE

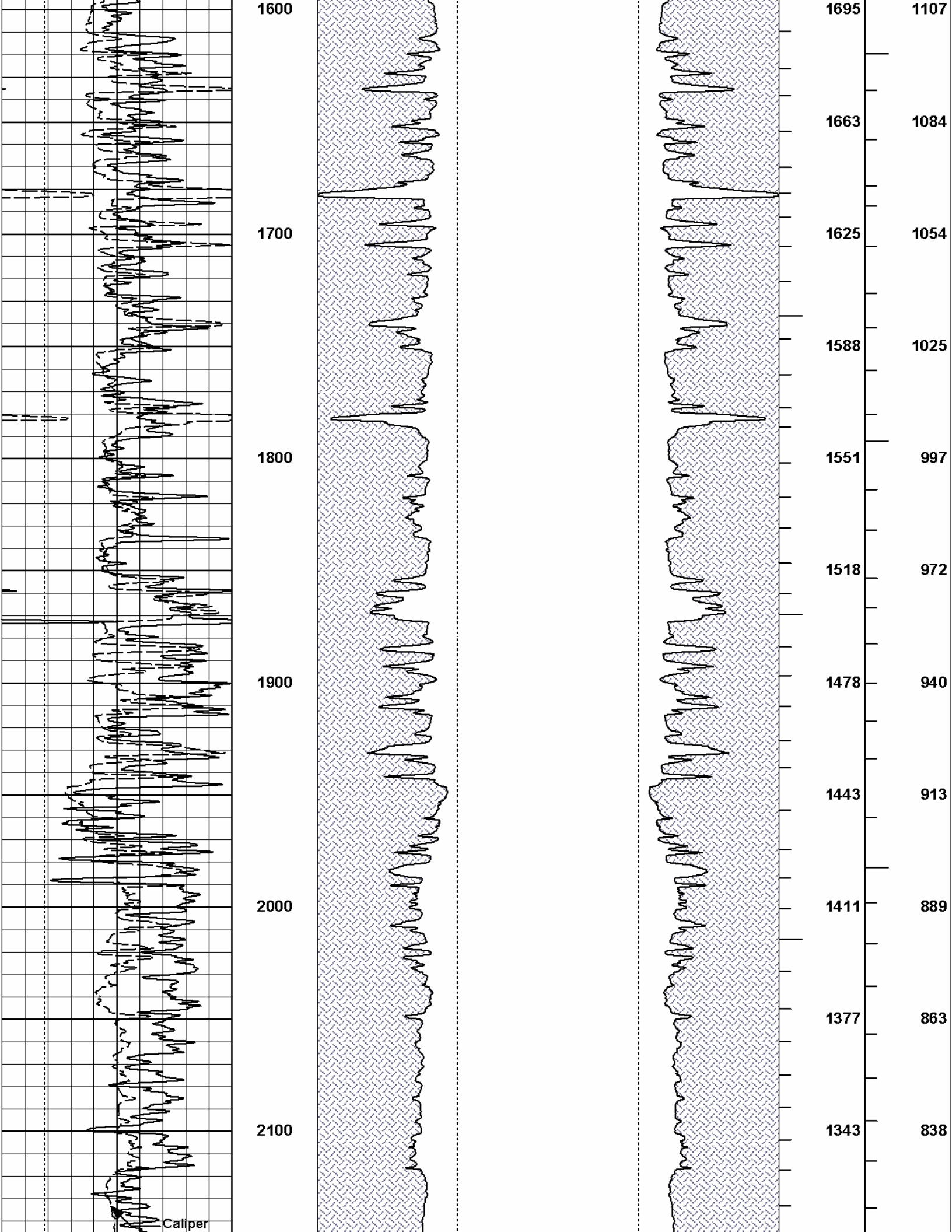
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential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

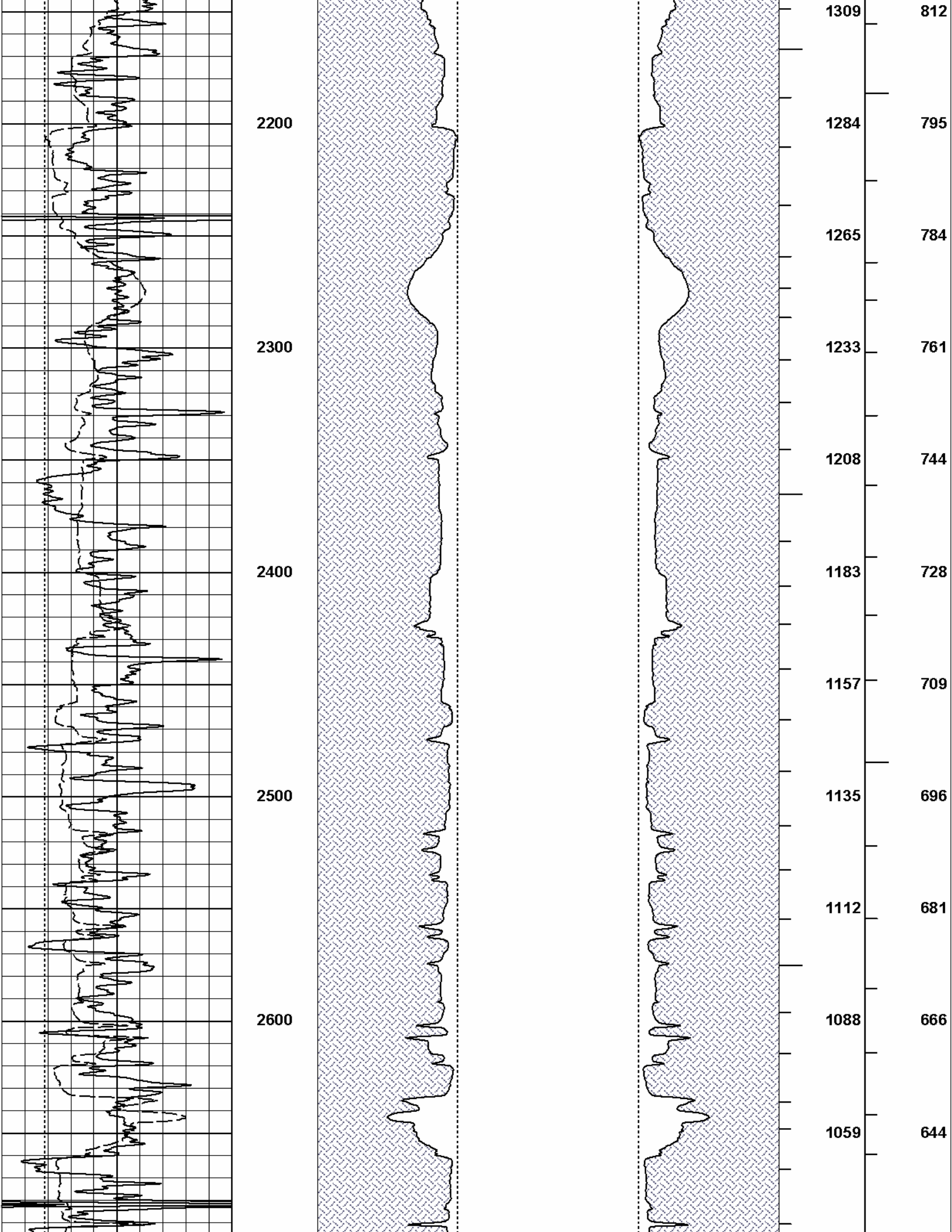
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
SDLT				
TPUL	Tension Pull	22.64	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	19.83	NO	
FHV	Far Detector High Voltage	19.83	NO	
ITMP	Instrument Temperature	19.83	NO	
DDHV	Detector High Voltage	19.83	NO	
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750
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

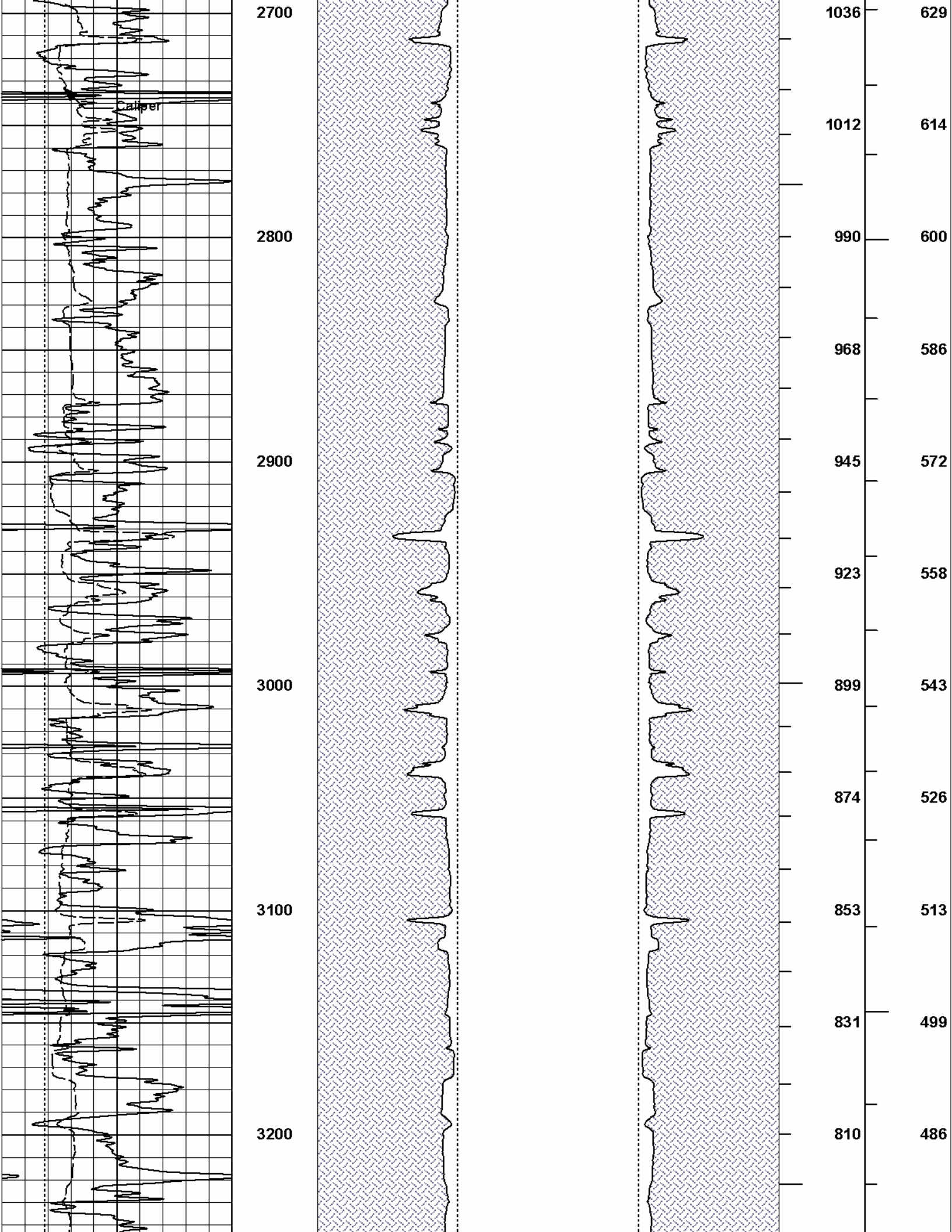
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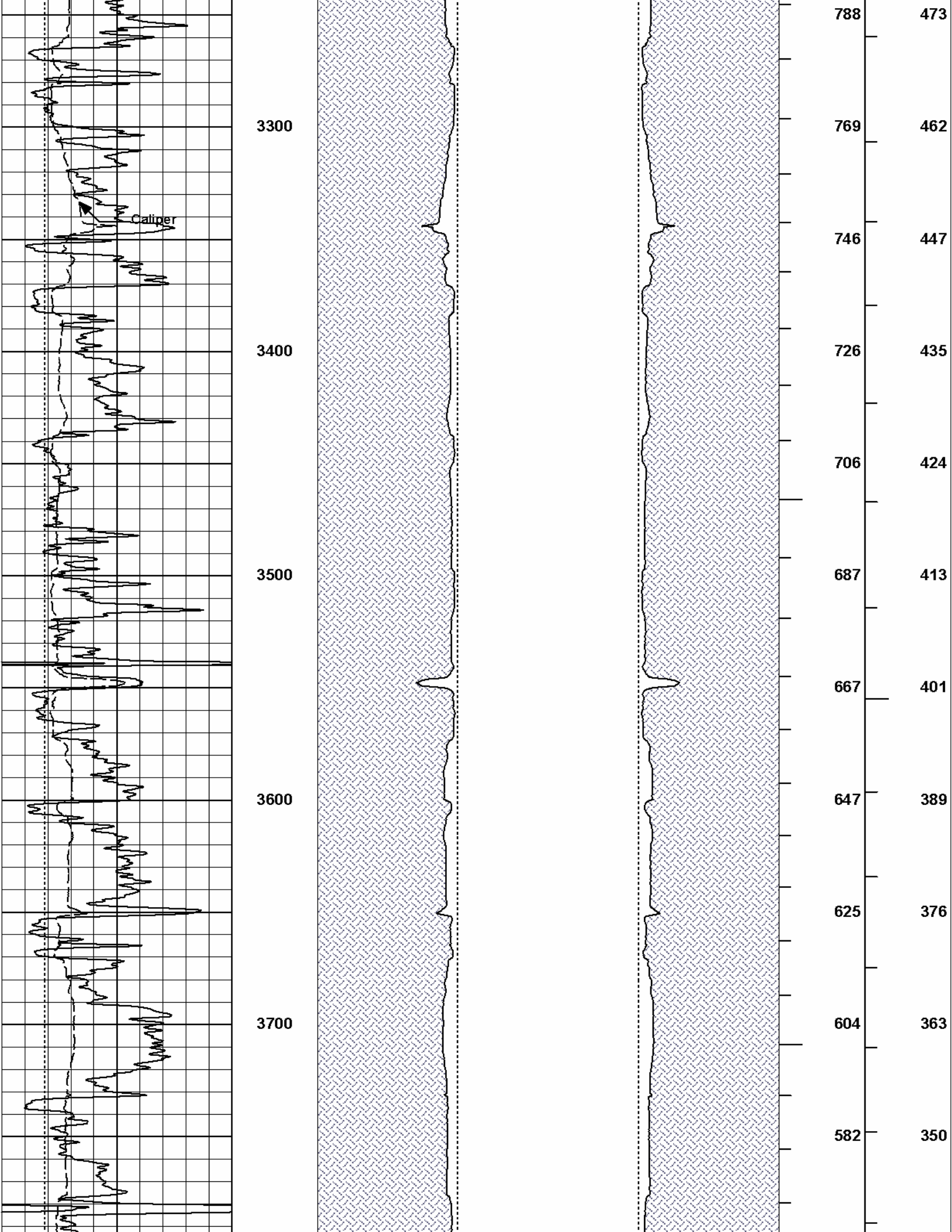
ANNULAR HOLE VOLUME PLOT

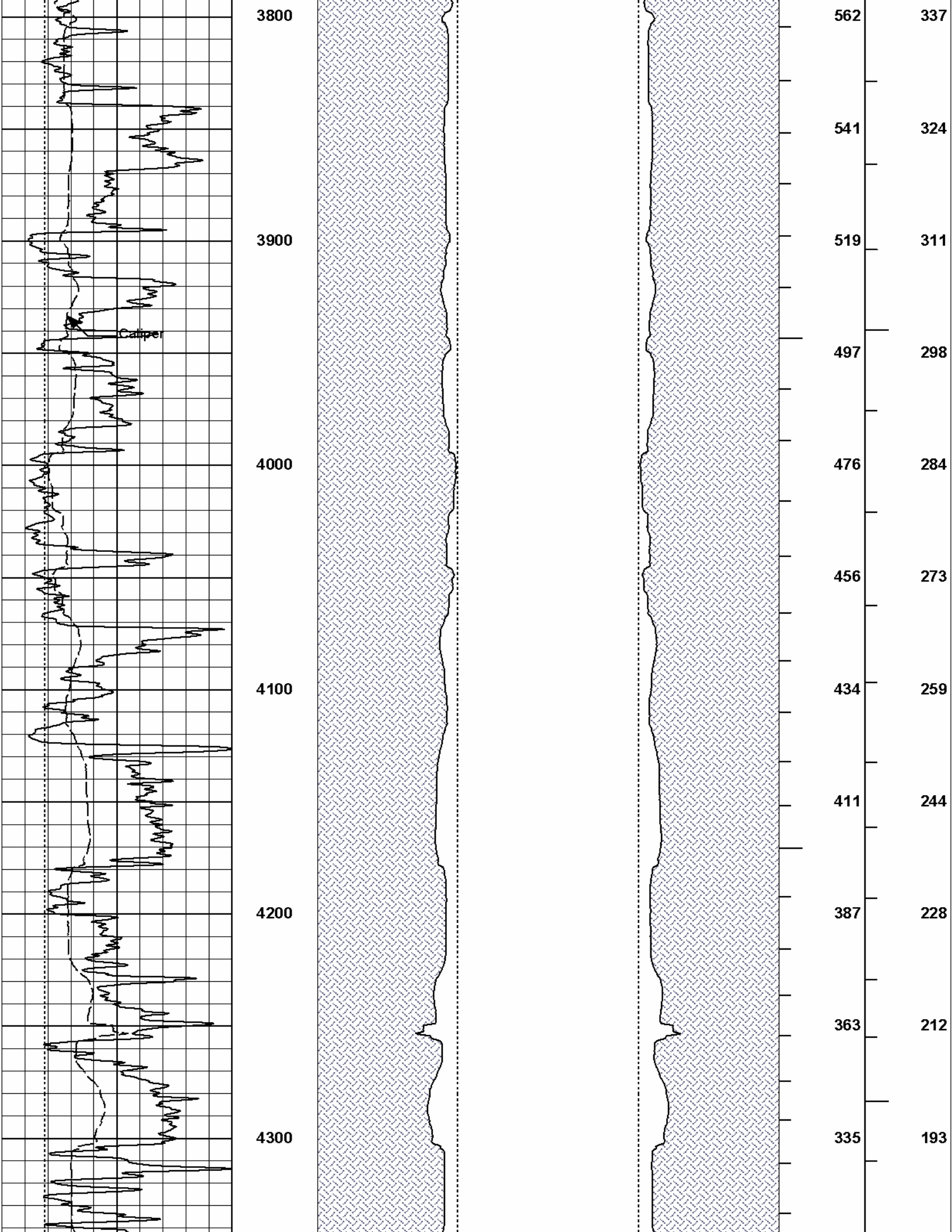
0	Gamma API	150		MUDCAKE		MUDCAKE				
api										
6	Bit Size	16		20	0	0	Bit Size	20		
inches										
6	Caliper	16	1 : 600 ft	20	0	0	Caliper	20	BHVT	AHVT
inches										
										

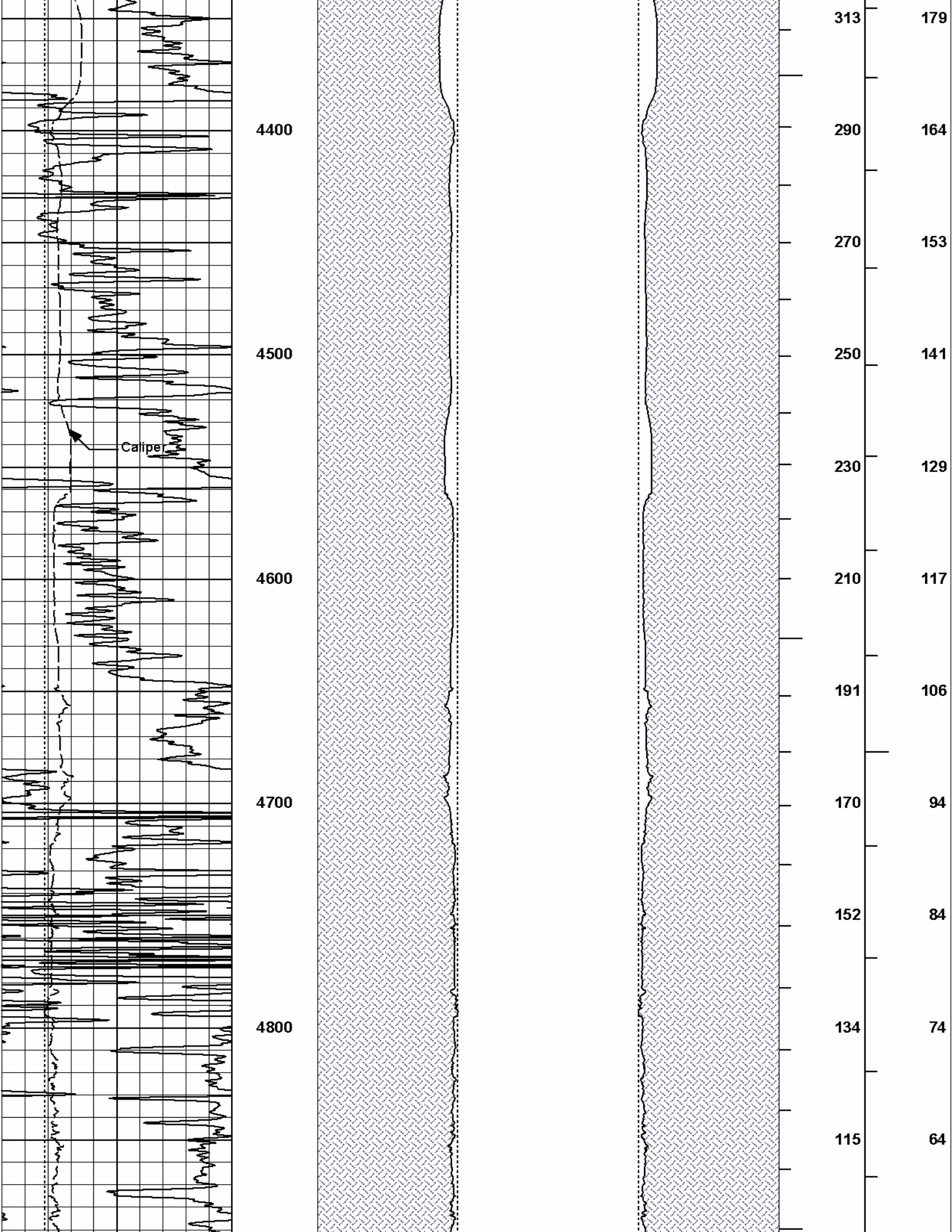


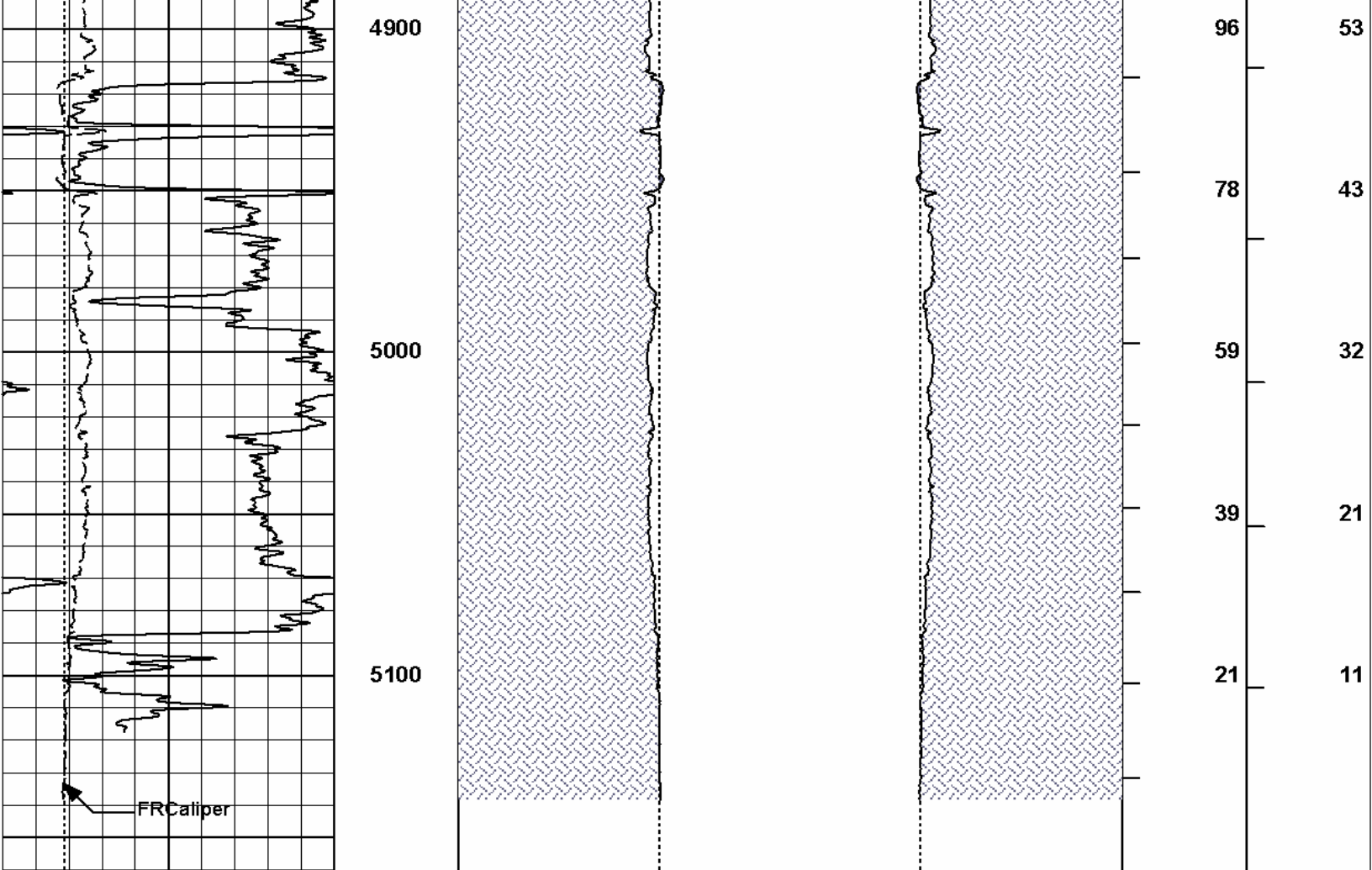












6	Caliper	16	1 : 600 ft	20	Caliper	0 0	20	Caliper	20	BHVT	AHVT
	inches				inches			inches			
6	Bit Size	16		20	Bit Size	0 0	20	Bit Size	20		
	inches										
0	Gamma API	150									
	api										

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Plot Time: 16-Jul-11 12:14:37
Plot Range: 1580 ft to 5161.17 ft
Data: BERRYMAN_RU_6_4\Well Based\CASING\
Plot File: \\LOCAL-1\BERRYMAN_RU_6_4\0001 SP-GTET-DSN-SDL-ACRT-CHPORO\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT

COMPANY	PHOENIX PETRO CORP		
WELL	BERRYMAN RU 6-4		
FIELD	RICHFIELD		
COUNTY	MORTON	STATE	KANSAS
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON LOG	