

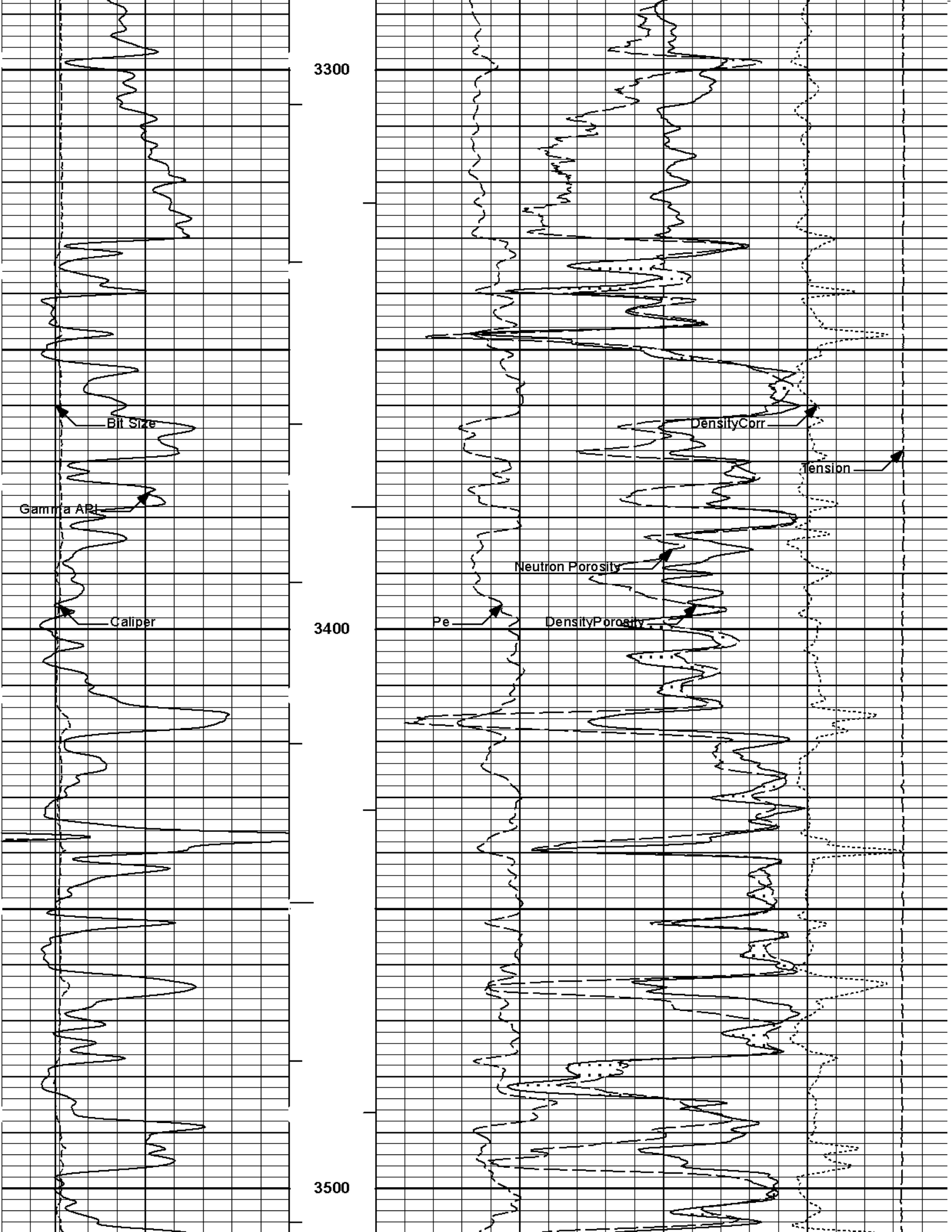
HALLIBURTON

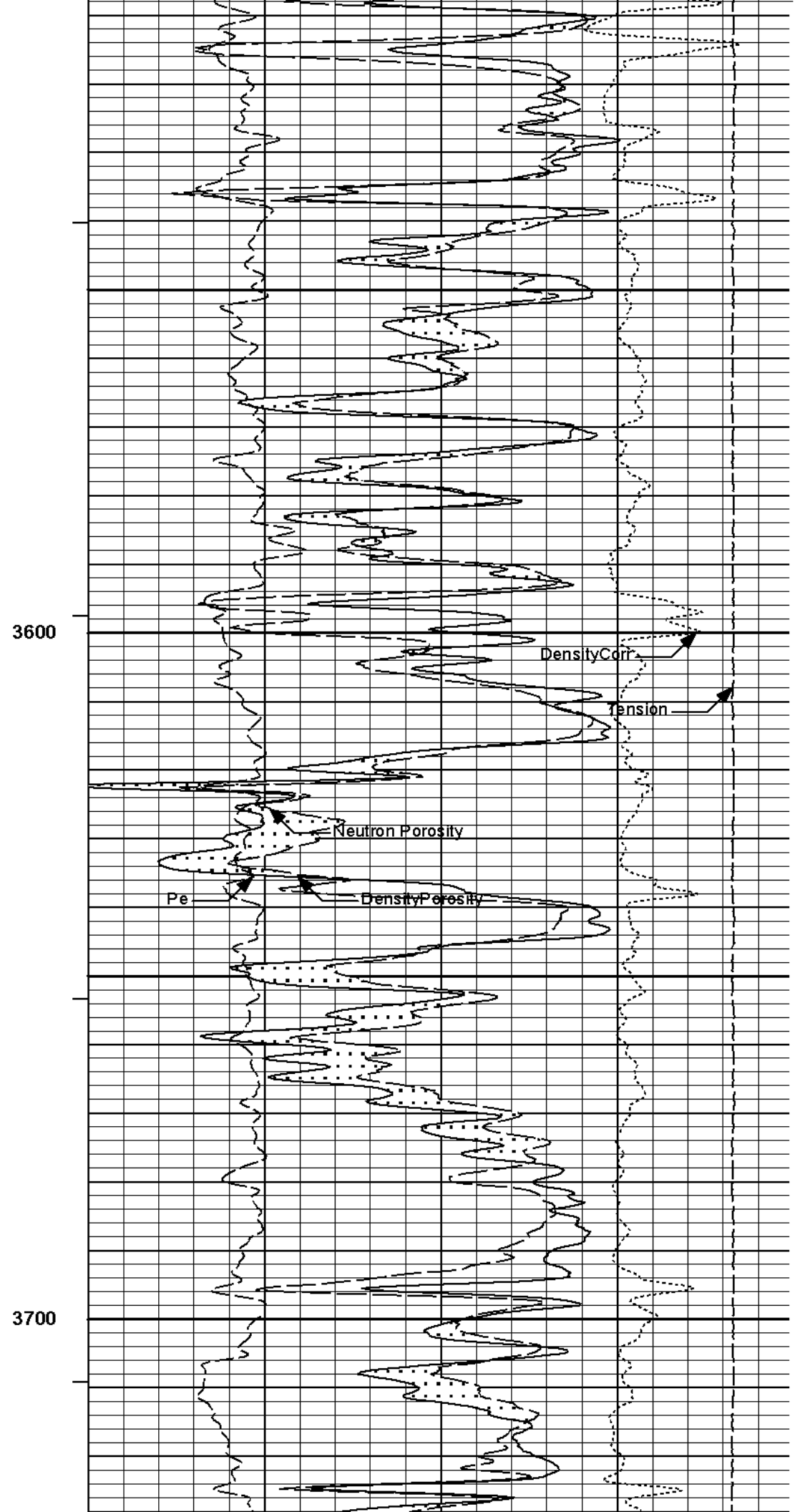
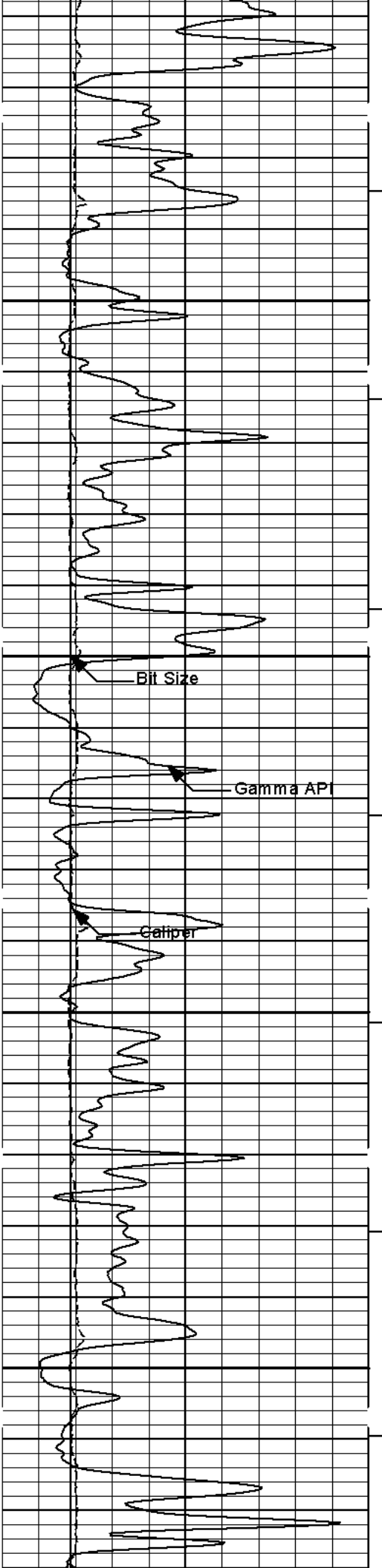
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

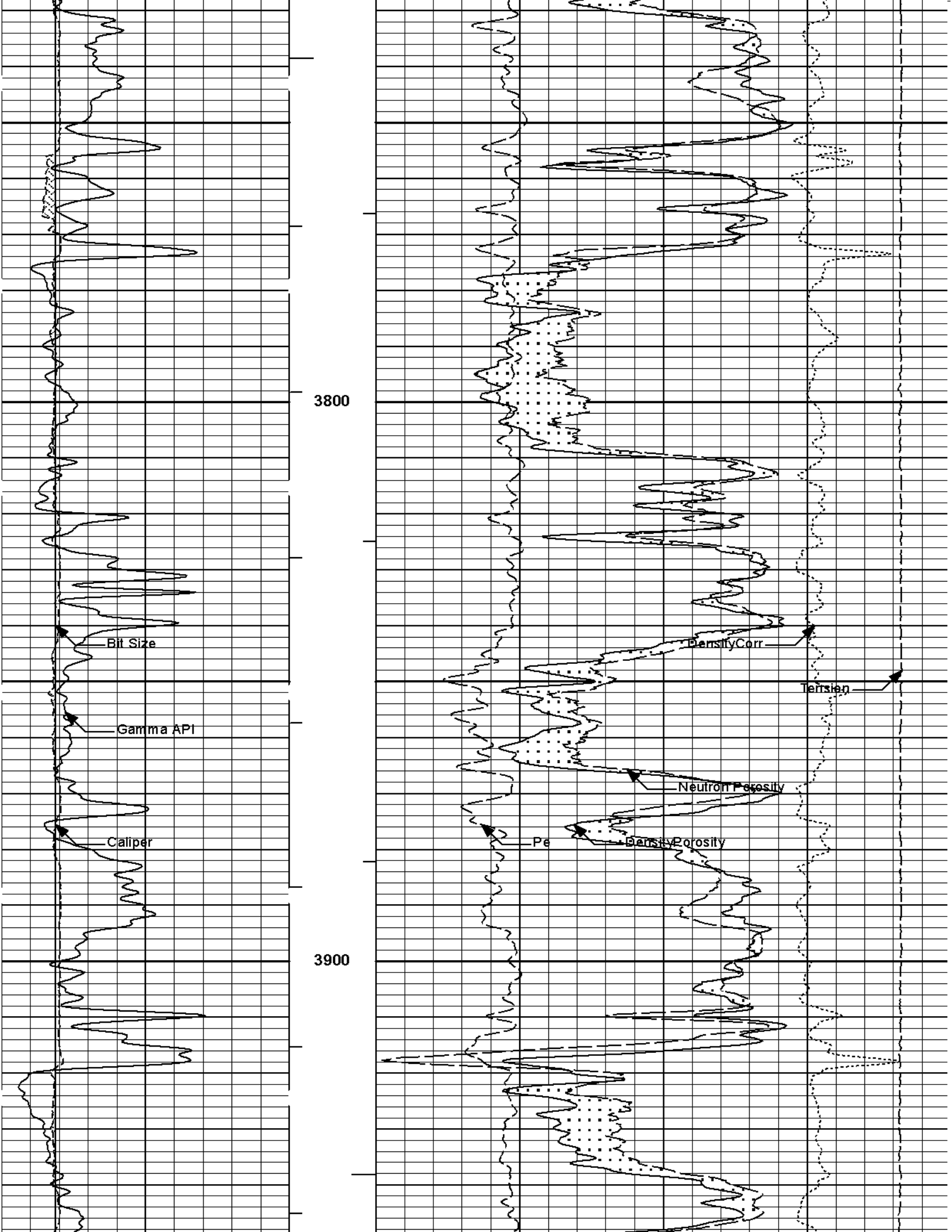
COMPANY	EOG RESOURCES		
WELL	GILLESPIE 21 #1		
FIELD	WILLIS		
COUNTY	STEVENS		
STATE	KANSAS		
COMPANY	EOG RESOURCES	WELL	GILLESPIE 21 #1
FIELD	WILLIS	COUNTY	STEVENS
COUNTY	STEVENS	STATE	KANSAS
API No.	15-189-22771	Other Services:	ACRT BSAT MICRO
Location	1780' FNL & 1890' FWL		
GROUND LEVEL	3158.0 ft	Elev. K.B.	3158.0 ft
KELLY BUSHING		D.F.	3157.0 ft
KELLY BUSHING		G.L.	3146.0 ft
Permament Datum			
Log measured from			
Drilling measured from			
Date	12-Jul-11		
Run No.	ONE		
Depth - Driller	6550.00 ft		
Depth - Logger	6554.0 ft		
Bottom - Logged Interval	6516.0 ft		
Top - Logged Interval	3300.0 ft		
Casing - Driller	8.625 in @ 1742.0 ft		
Casing - Logger	1742.0 ft		
Bit Size	7.875 in		
Type Fluid in Hole	WATER BASED MUD		
Density	9.2 ppq	55.00	s/qt
PH	10.50 pH	8.0	cptm
Source of Sample	FLOWLINE		
Rm @ Meas. Temperature	1.060 ohmm @ 86.00 degF		@
Rmf @ Meas. Temperature	0.90 ohmm @ 85.00 degF		@
Rmc @ Meas. Temperature	1.220 ohmm @ 85.00 degF		@
Source Rmf	MEASURED	MEASURED	
Rm @ BHT	0.70 ohmm @ 140.0 degF		@
Time Since Circulation	4.0 hr		
Time on Bottom	12-Jul-11 07:07		
Max. Rec. Temperature	140.0 degF @ 6554.0 ft		@
Equipment	10782954	LIBERAL	
Recorded By	S. JUNG		
Witnessed By	S. MUELLER		

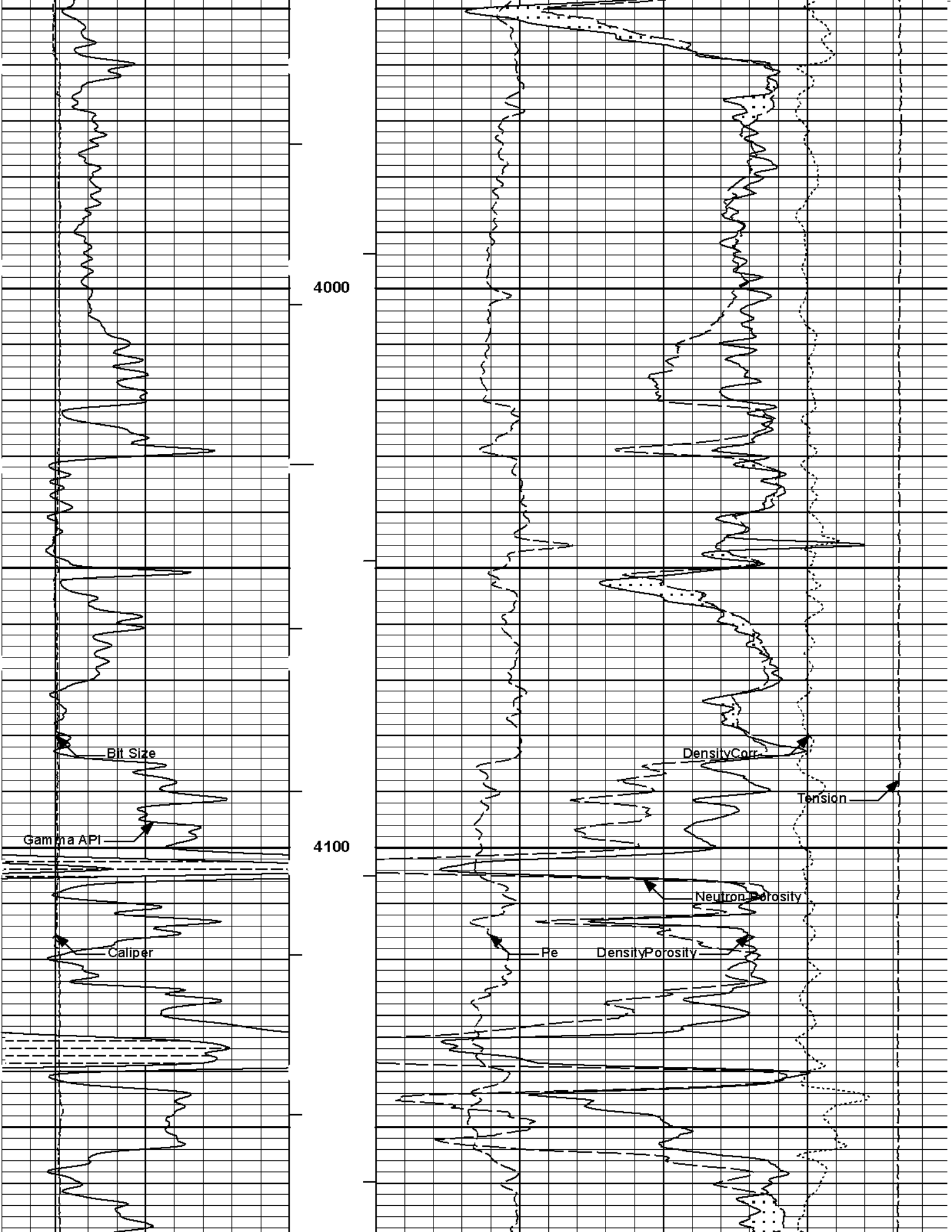
Fold here

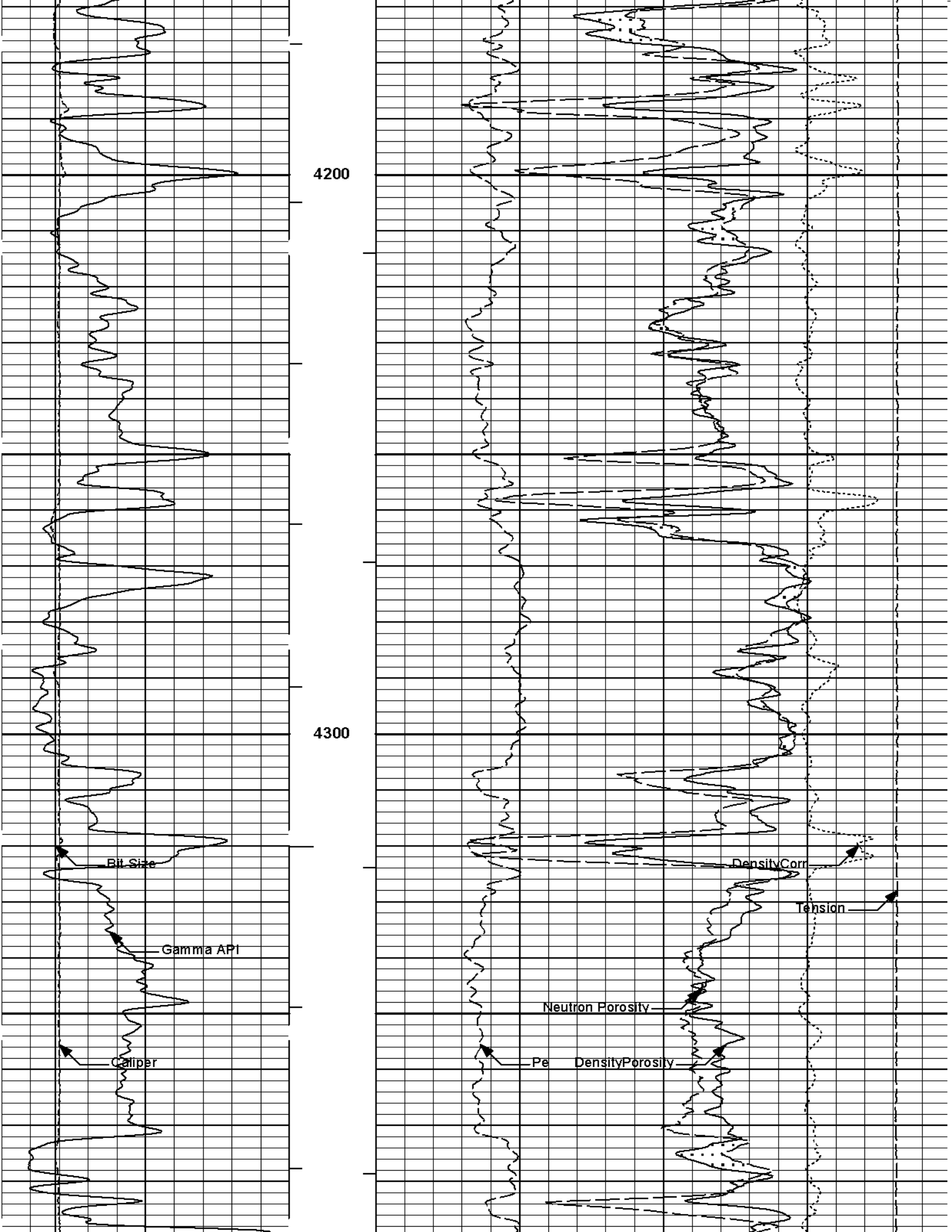
Service Ticket No.: 8308171		API Serial No.: 15-189-22771		PGM Version: WL INSITE R3.2.5 (Build 2)			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES			
Date	Sample No.			Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth-Driller							
Type Fluid in Hole							
Density	Viscosity						
Ph	Fluid Loss						
Source of Sample				RESISTIVITY EQUIPMENT DATA			
Rm @ Meas. Temp	@	@		Run No.	Tool Type & No.	Pad Type	Tool Pos.
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.	10811258	Serial No.		Serial No.	1066_M85803_P45	Serial No.	10755066
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	No. of Cent.		Diameter	4.75"	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.	5073GW	Serial No.	DSN-436
Distance to Source	10'	FWDA [Y/N]		Strength	1.5 Ci	Strength	15 Ci
LOGGING DATA							
GENERAL		GAMMA		ACOUSTIC		DENSITY	

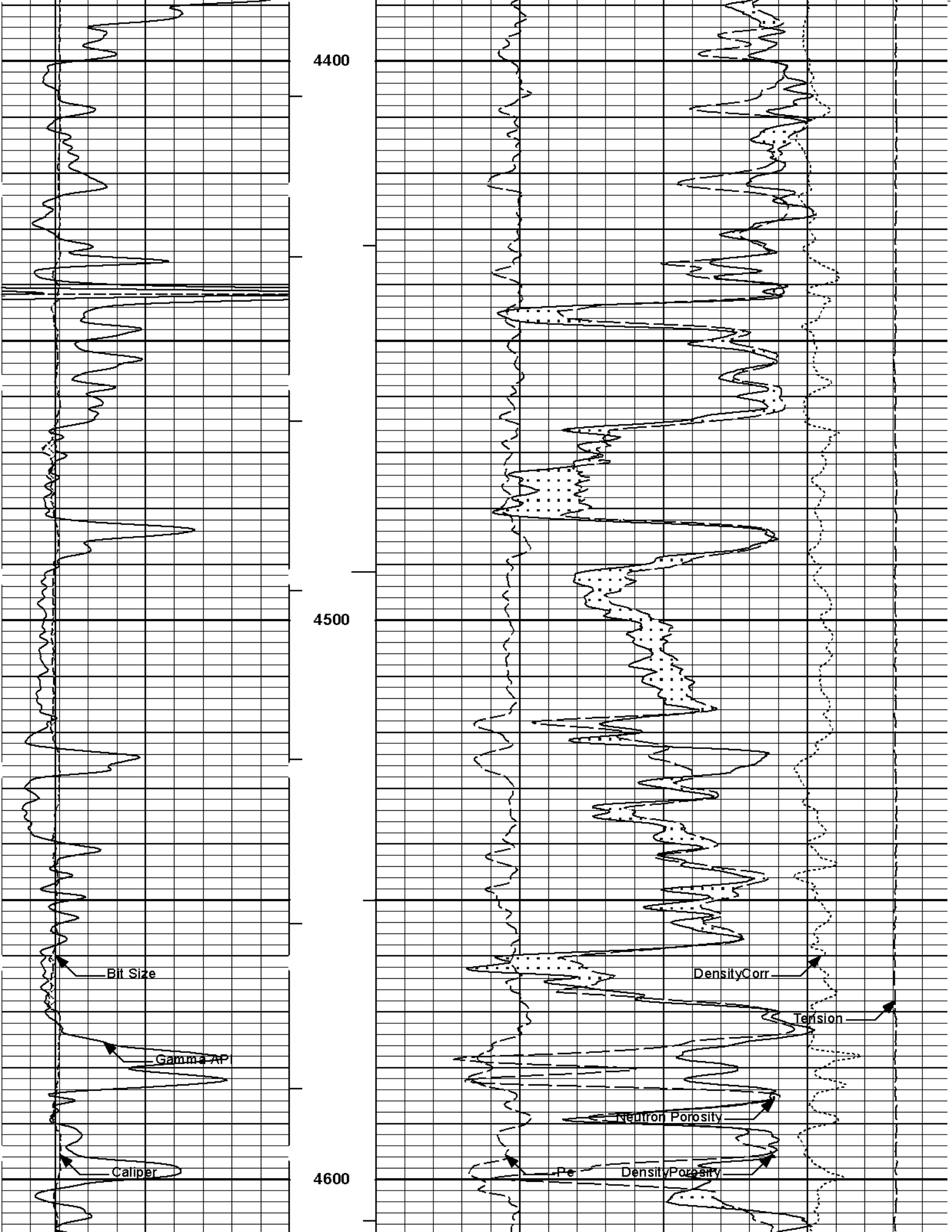


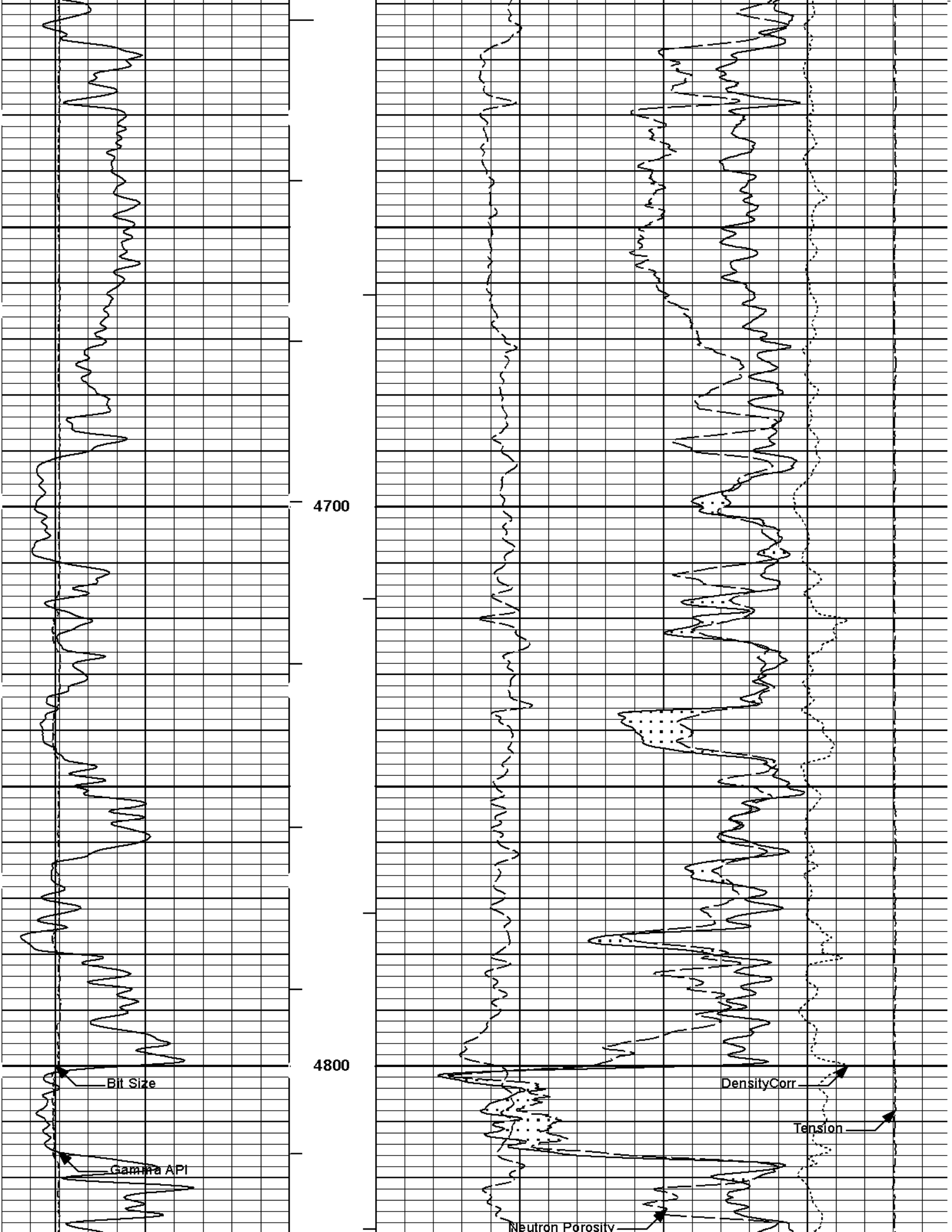


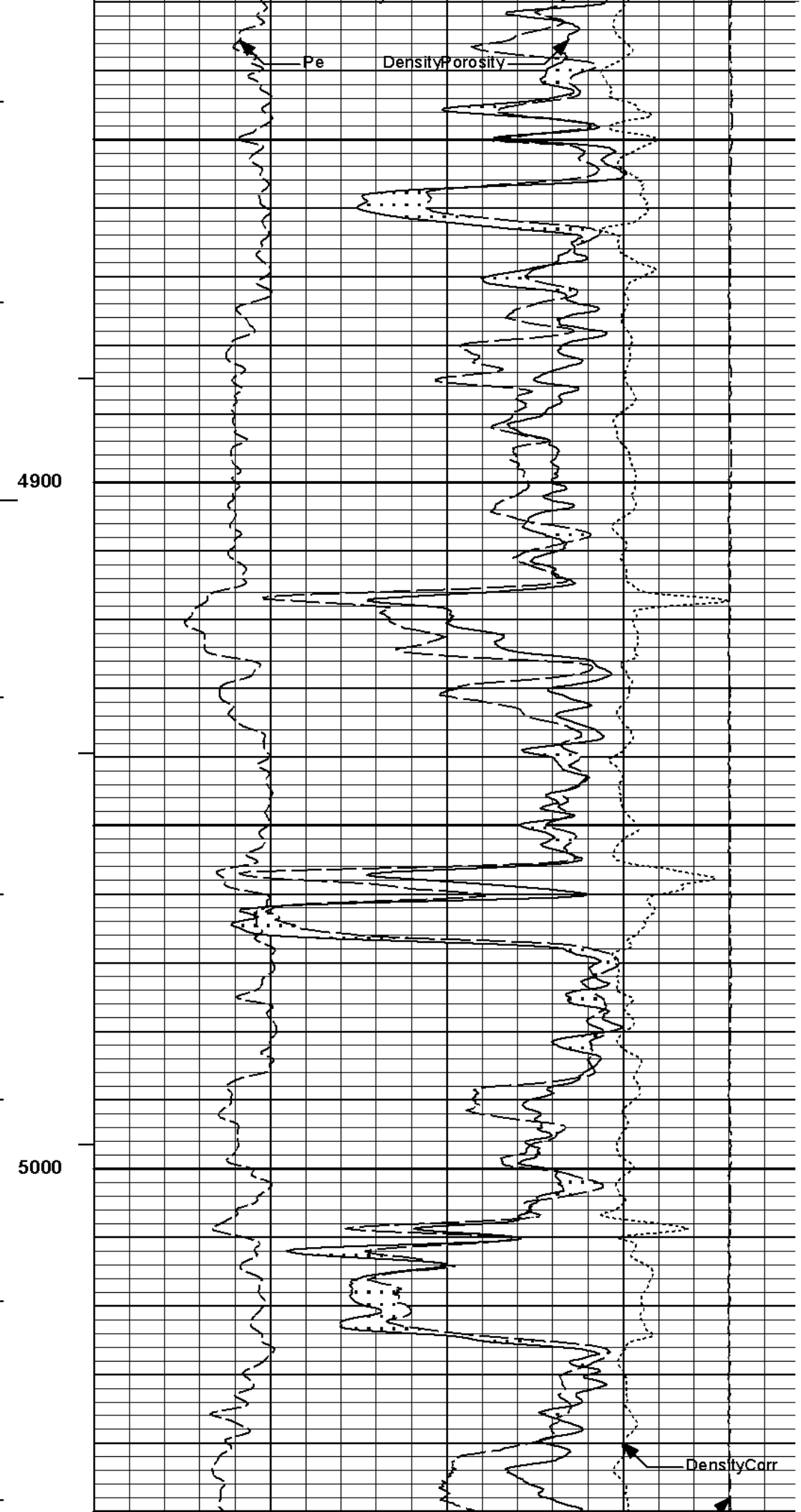
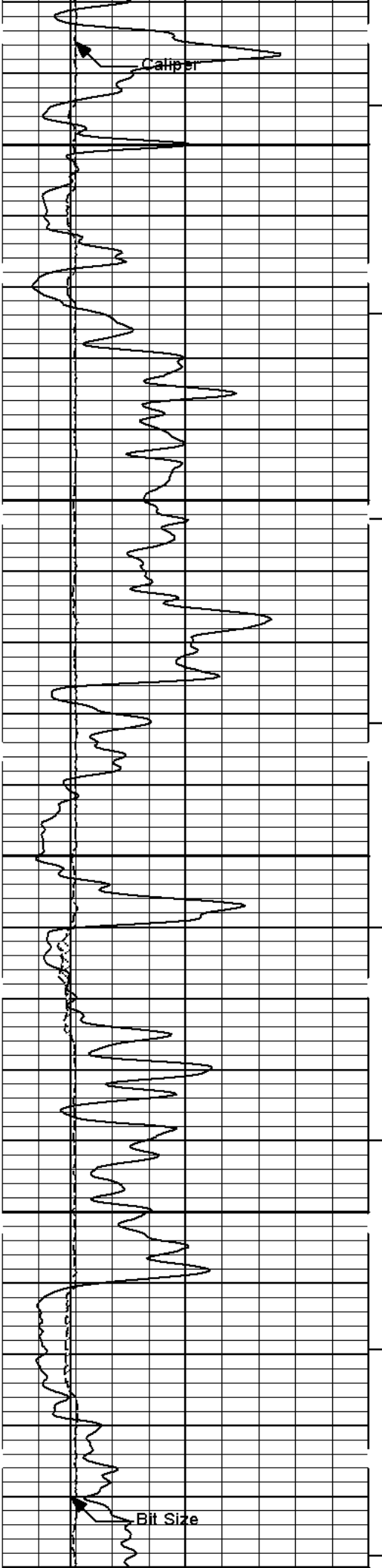


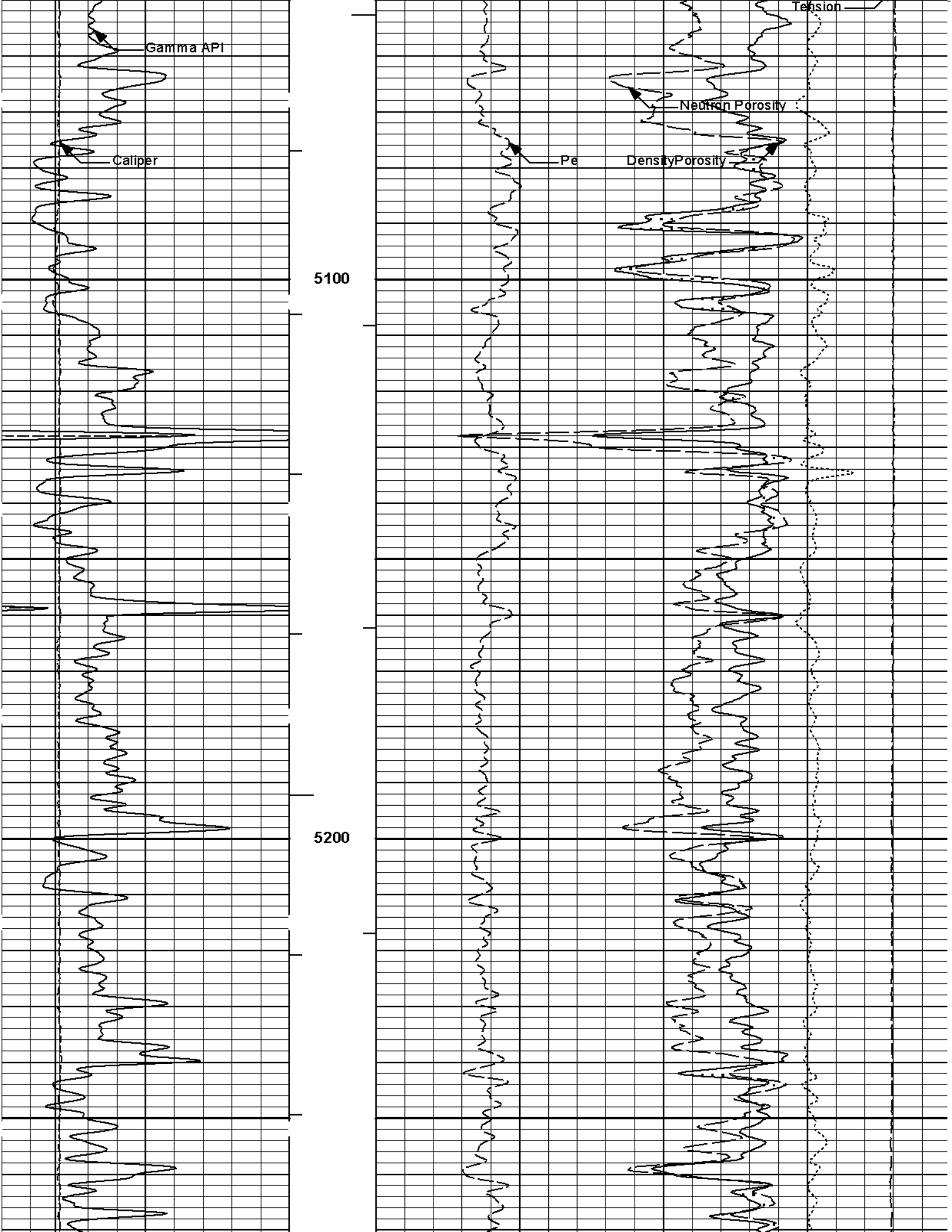


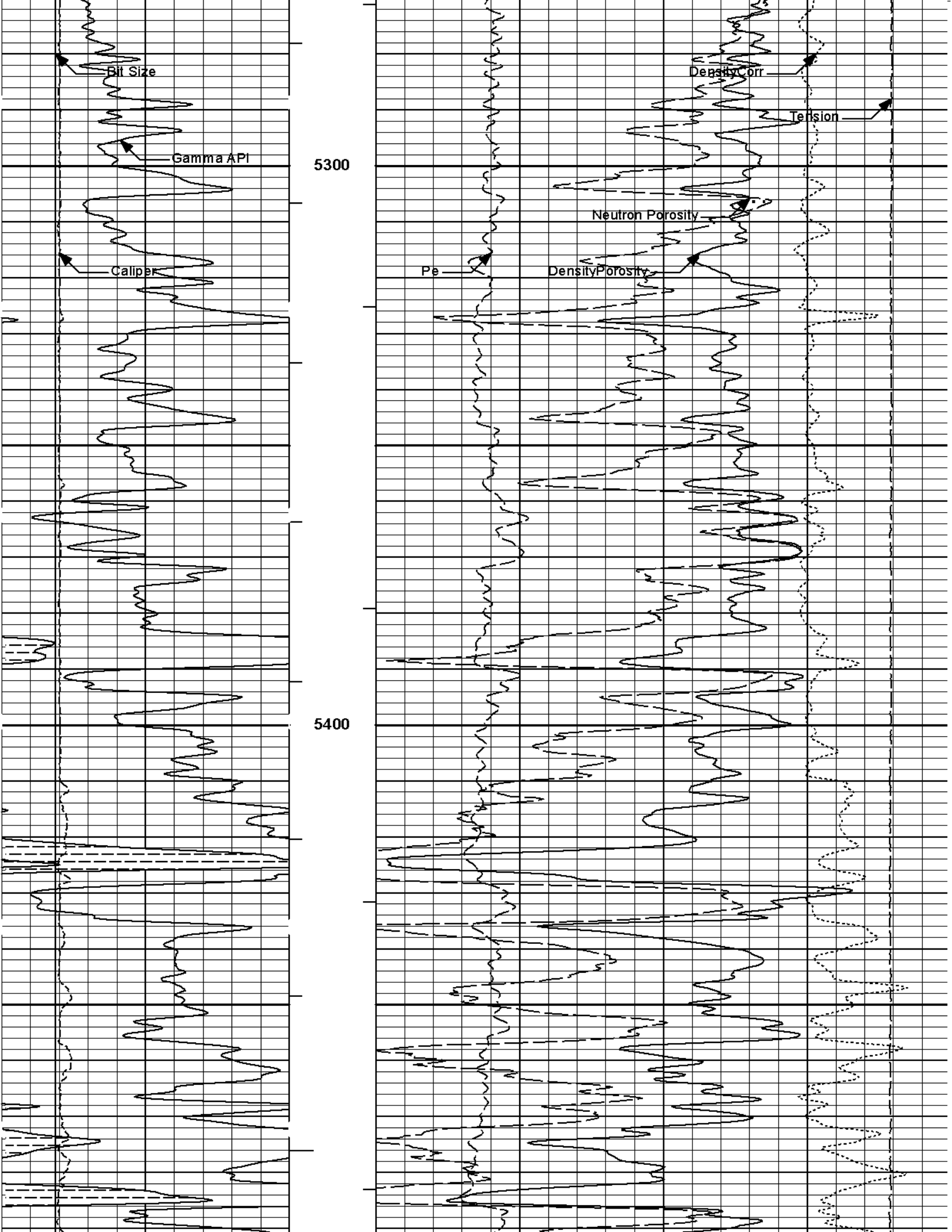


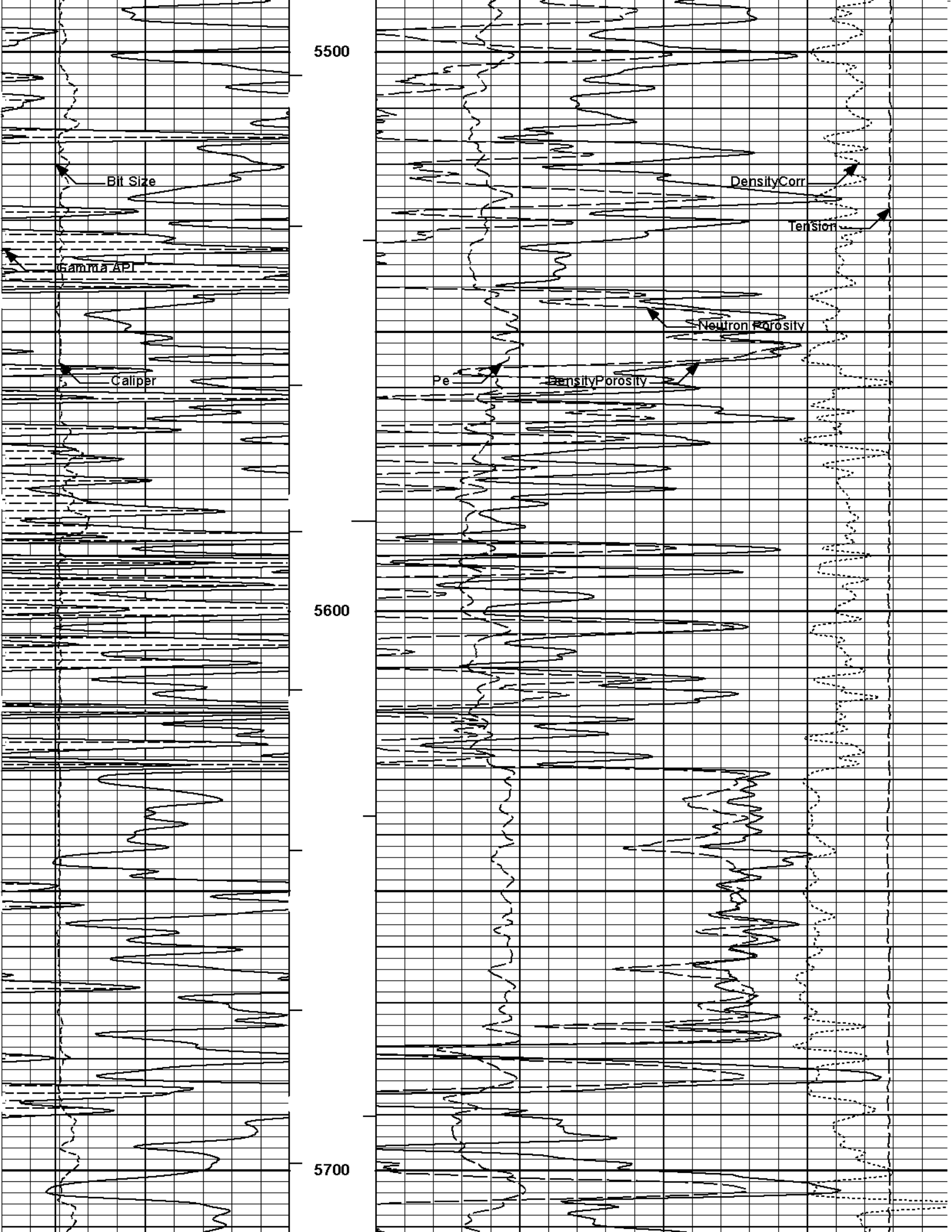


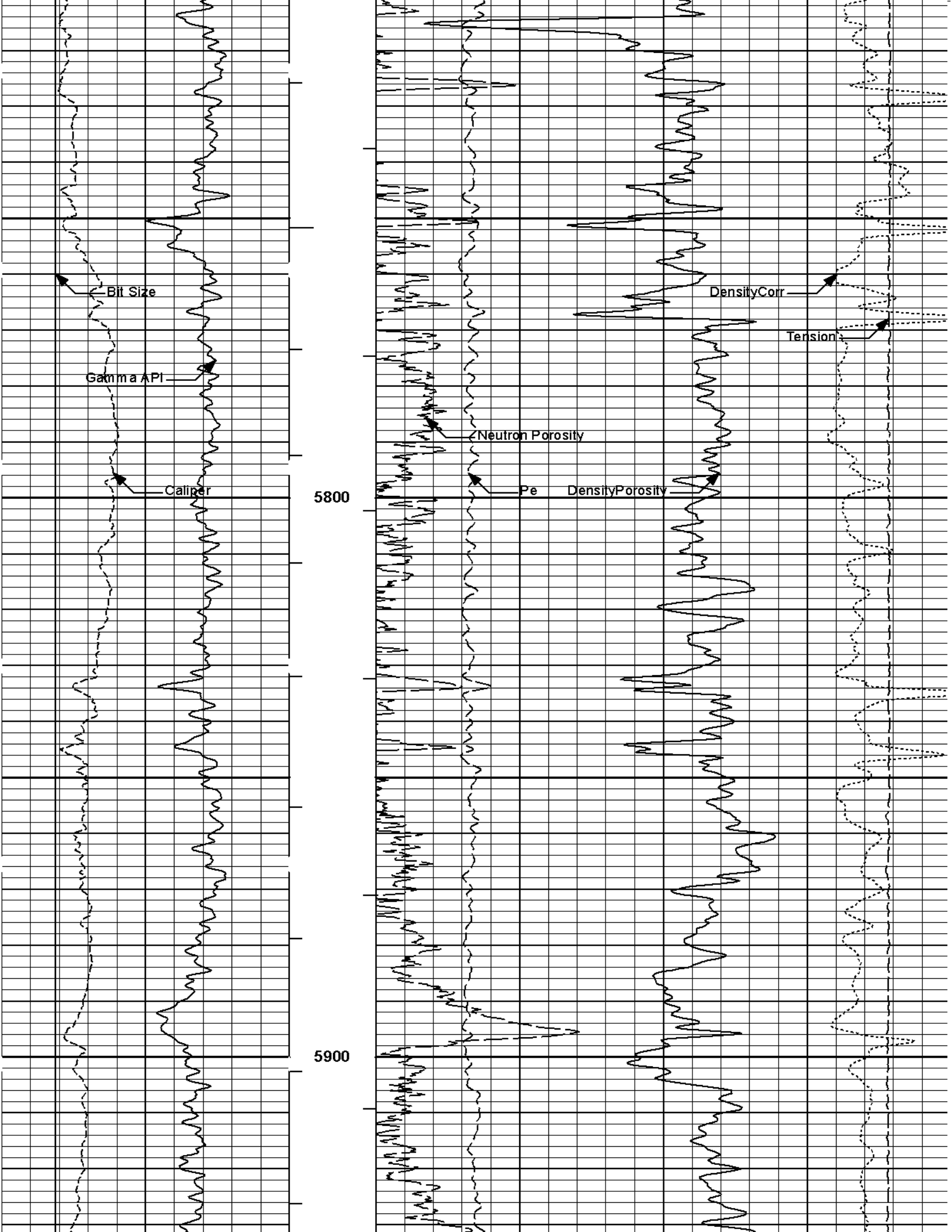


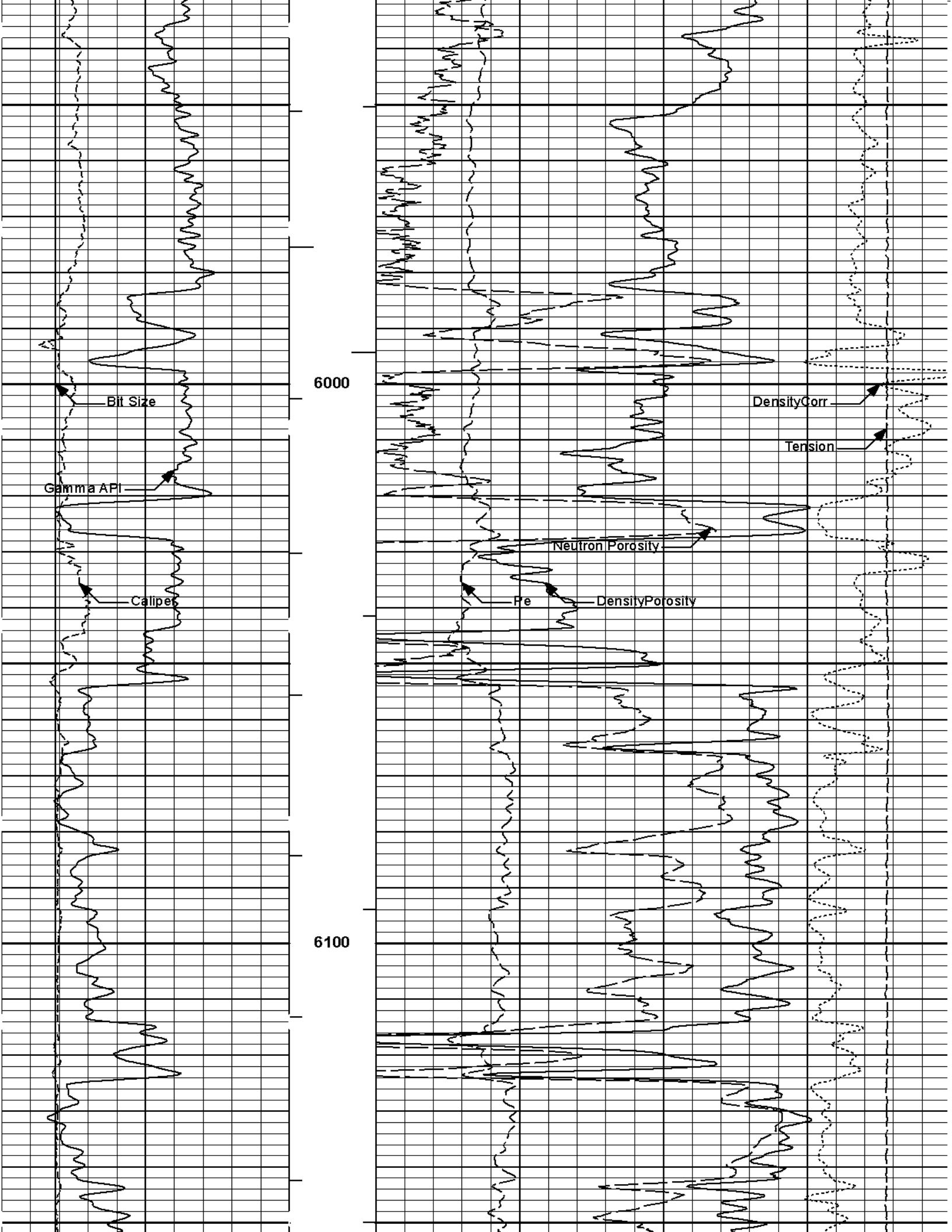


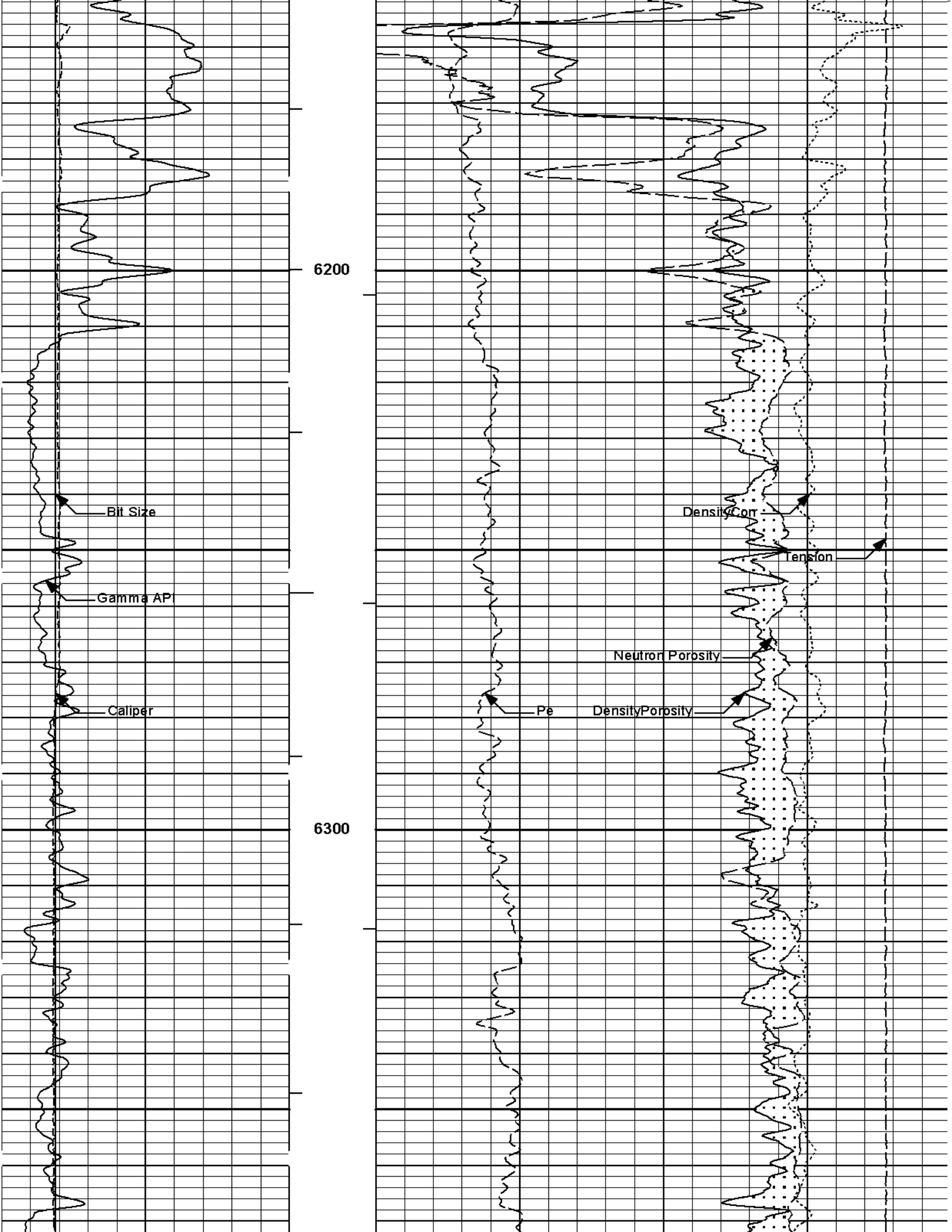


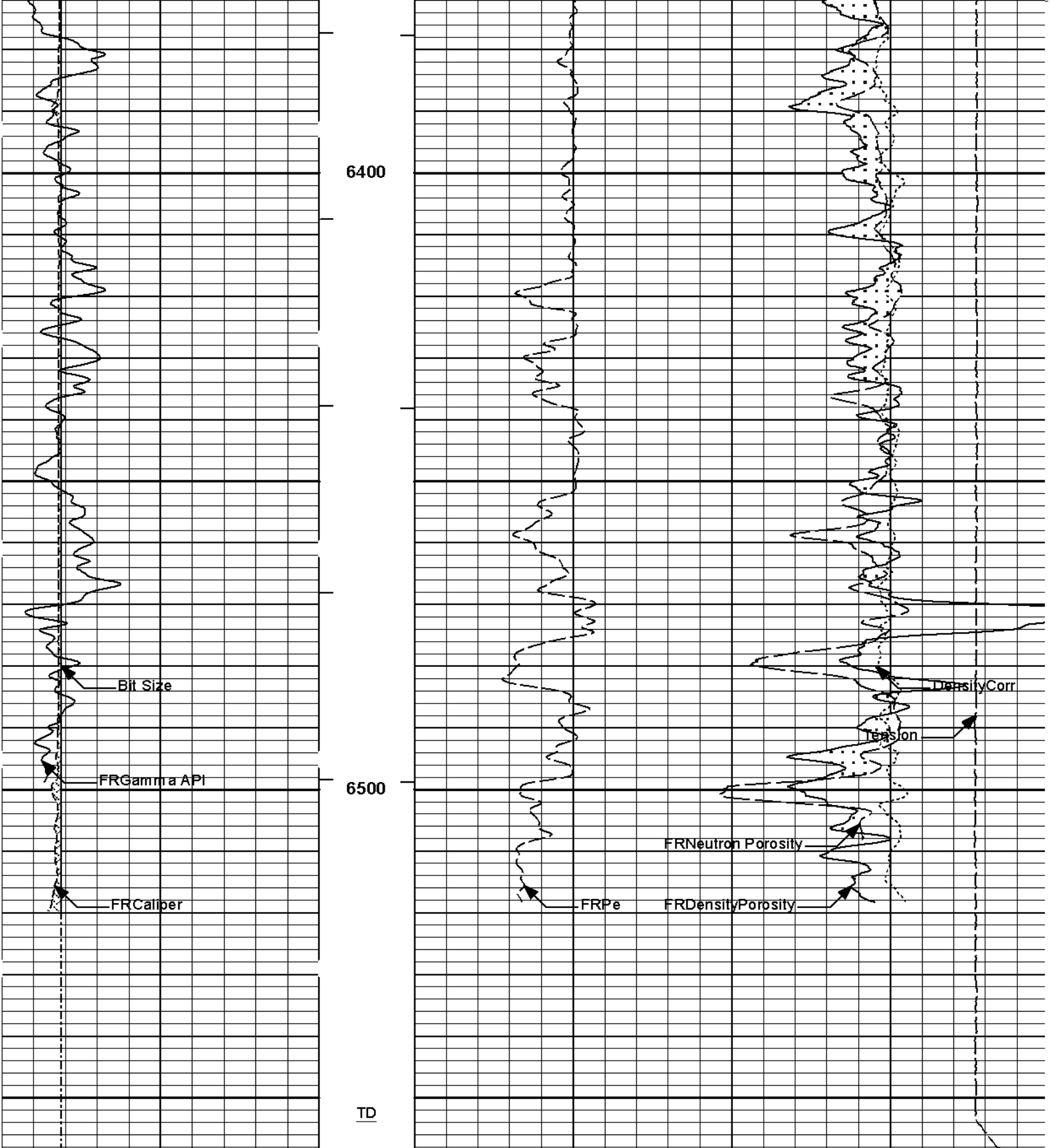




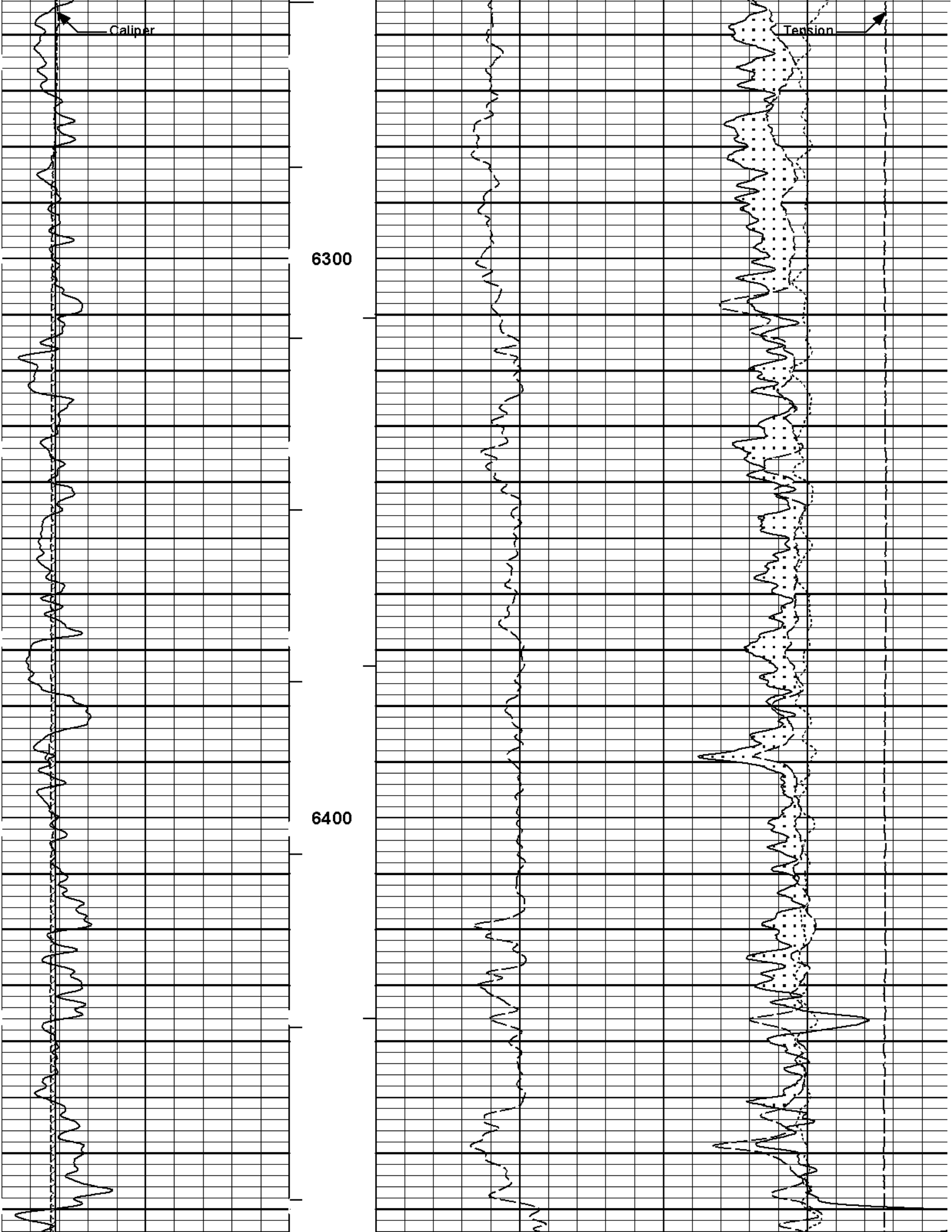


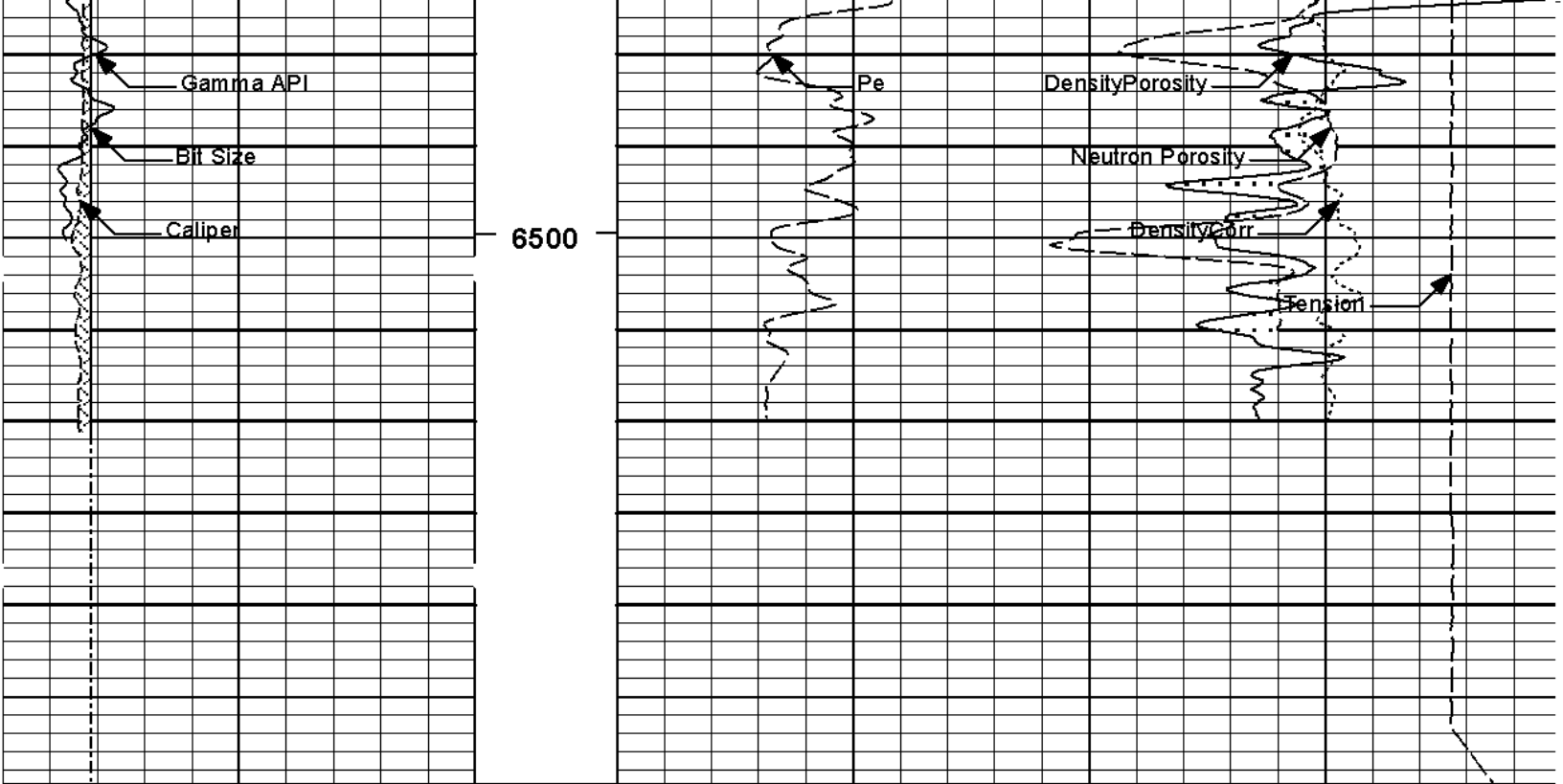






MUDCAKE		1 : 240	0	Pe	10	-0.25	DensityCorr	0.25
ft						gram per cc		
AHVT						15K	Tension	0
6 Caliper 16						pounds		
inches								
BHVT			30	DensityPorosity				-10
0 Gamma API 150						%		
api			30	Neutron Porosity				10
Tension Pull								





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

HALLIBURTON

Plot Time: 12-Jul-11 10:33:23
 Plot Range: 6170 ft to 6559.5 ft
 Data: GILLESPIE_21_1\Well Based\DAQ-0001-REPEAT1
 Plot File: \\PORO\EOG_Poro_IQ_5_REP_LIB

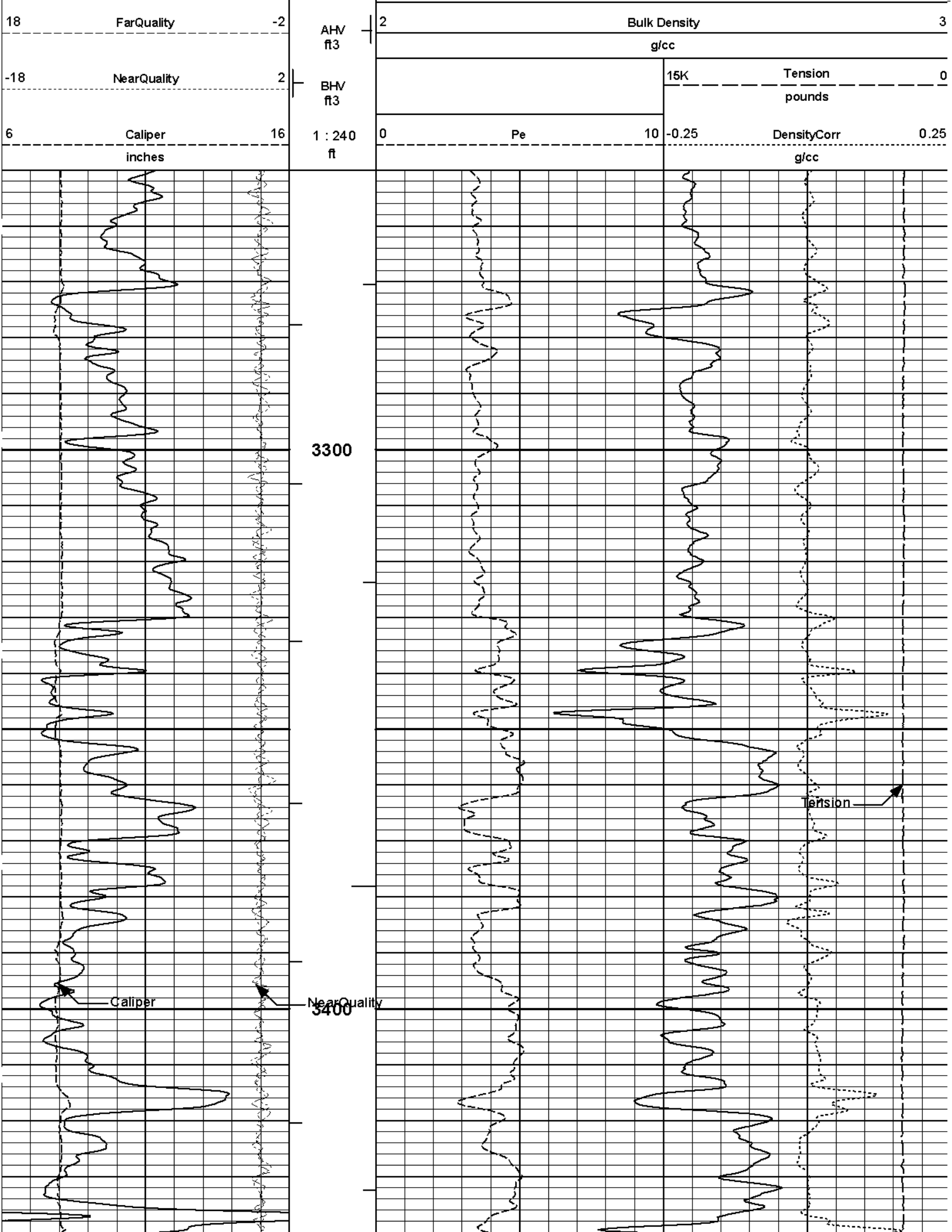
REPEAT SECTION

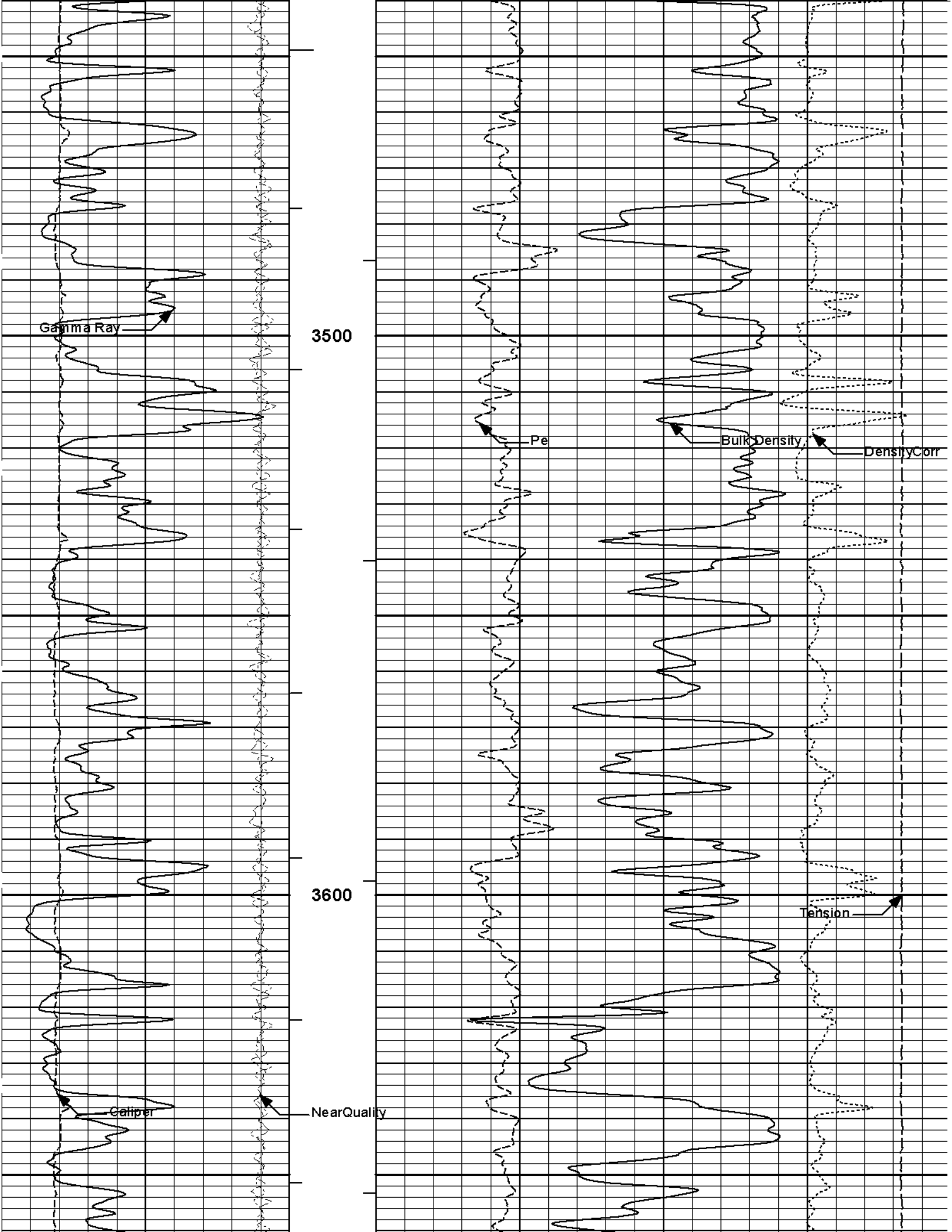
HALLIBURTON

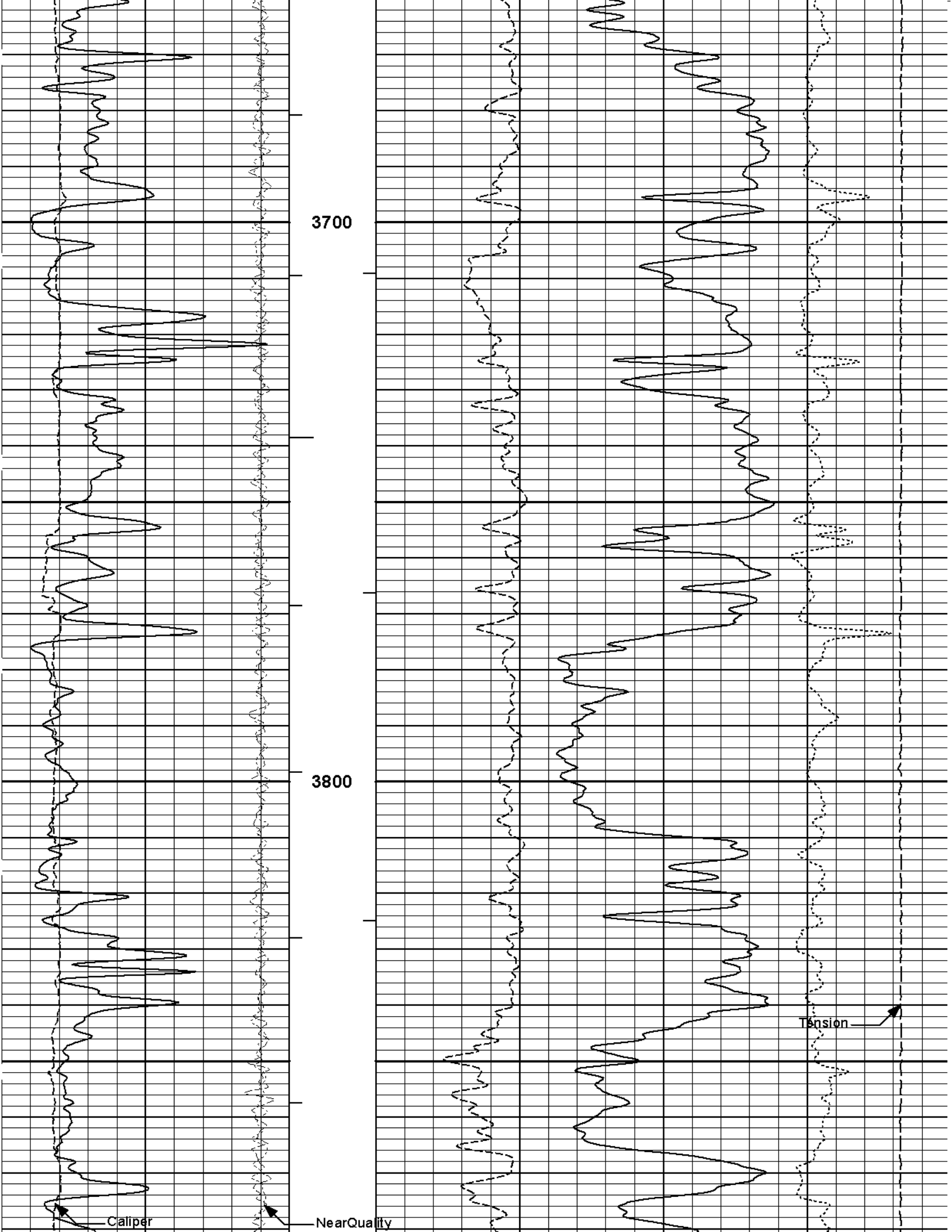
Plot Time: 12-Jul-11 10:33:23
 Plot Range: 3250 ft to 6558.42 ft
 Data: GILLESPIE_21_1\Well Based\DAQ-0001-DETAIL1
 Plot File: \\LOCAL\GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CH\PORO\BULKD_5_MAIN_LIB

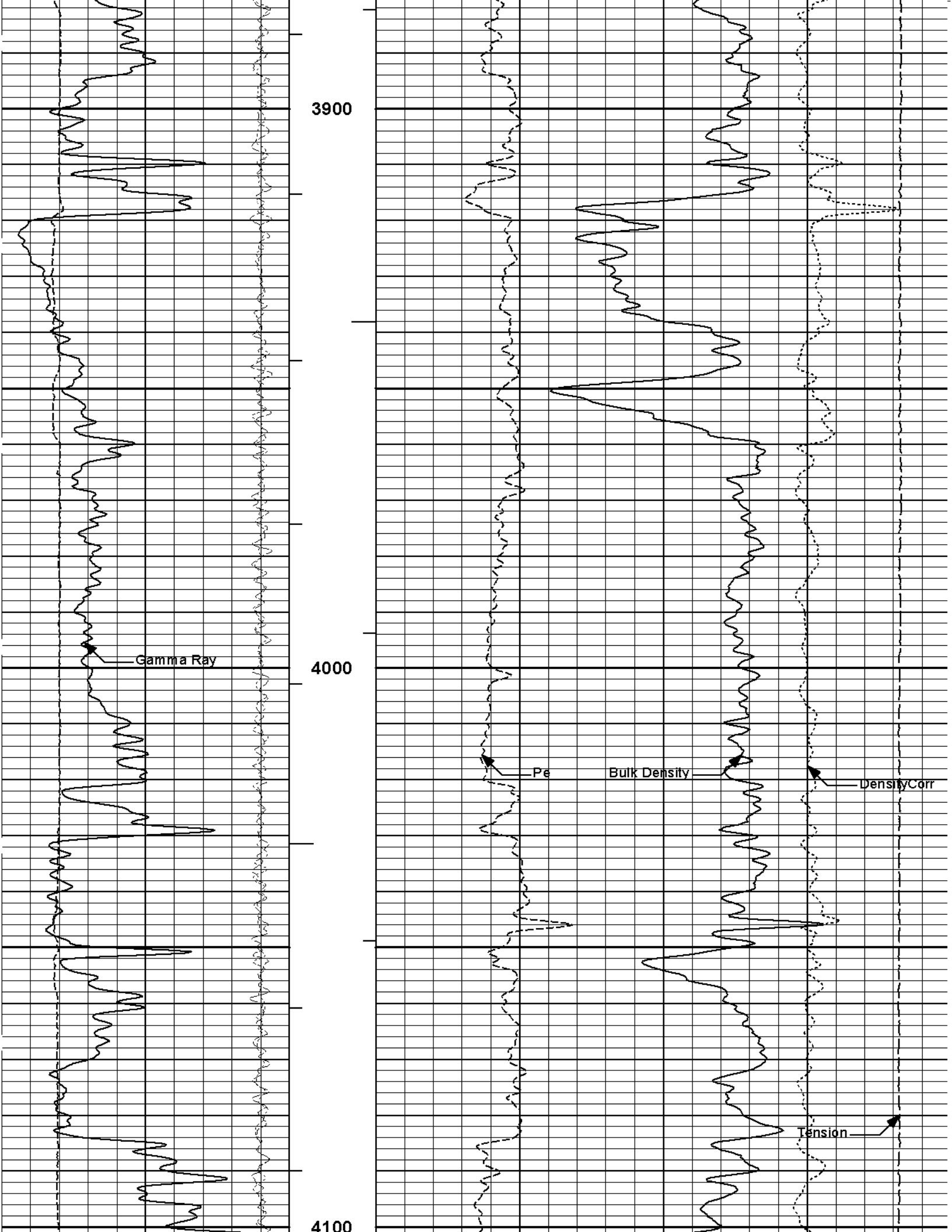
5 INCH MAIN LOG

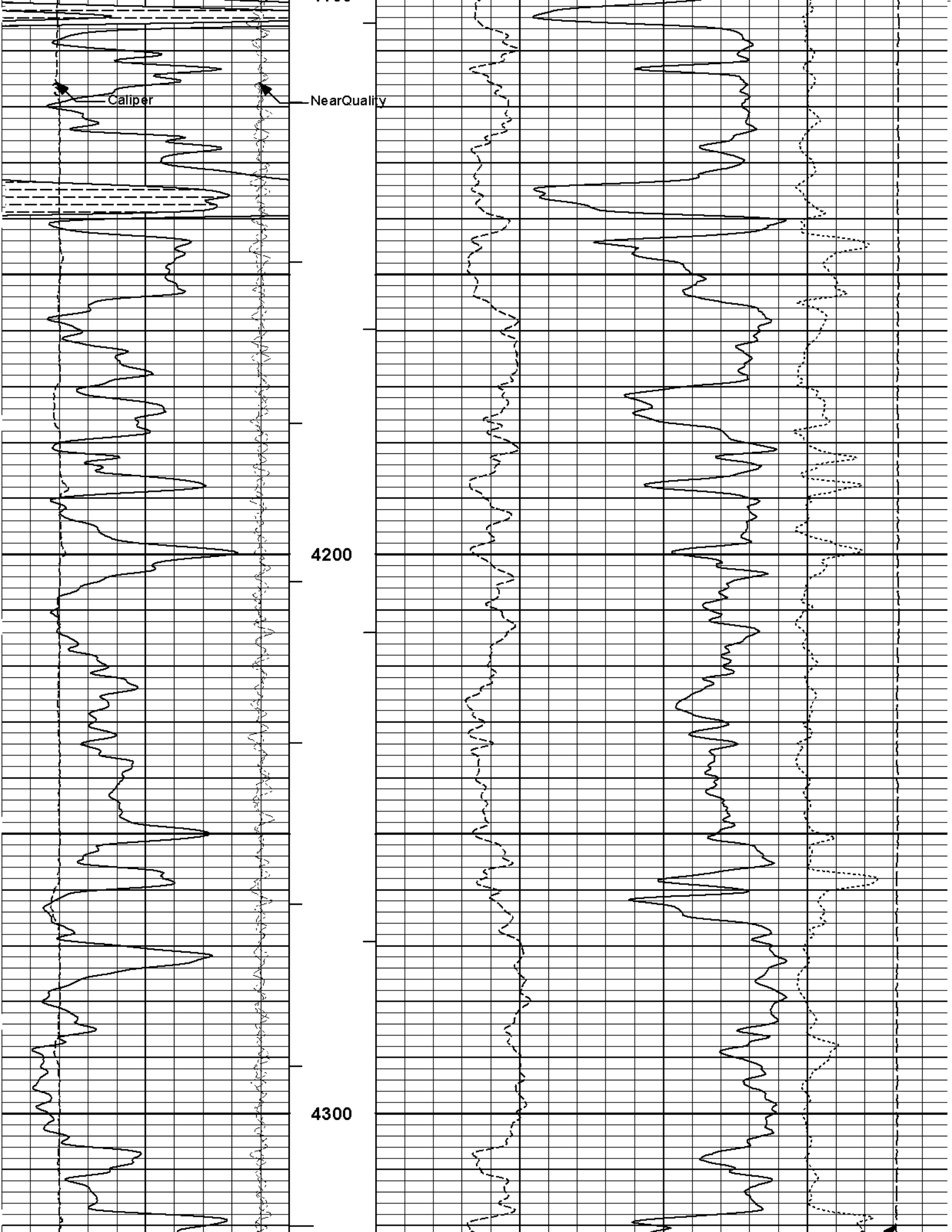
	SHALE		Tension Pull
0	Gamma Ray	150	Tension Pull
	api		10 0

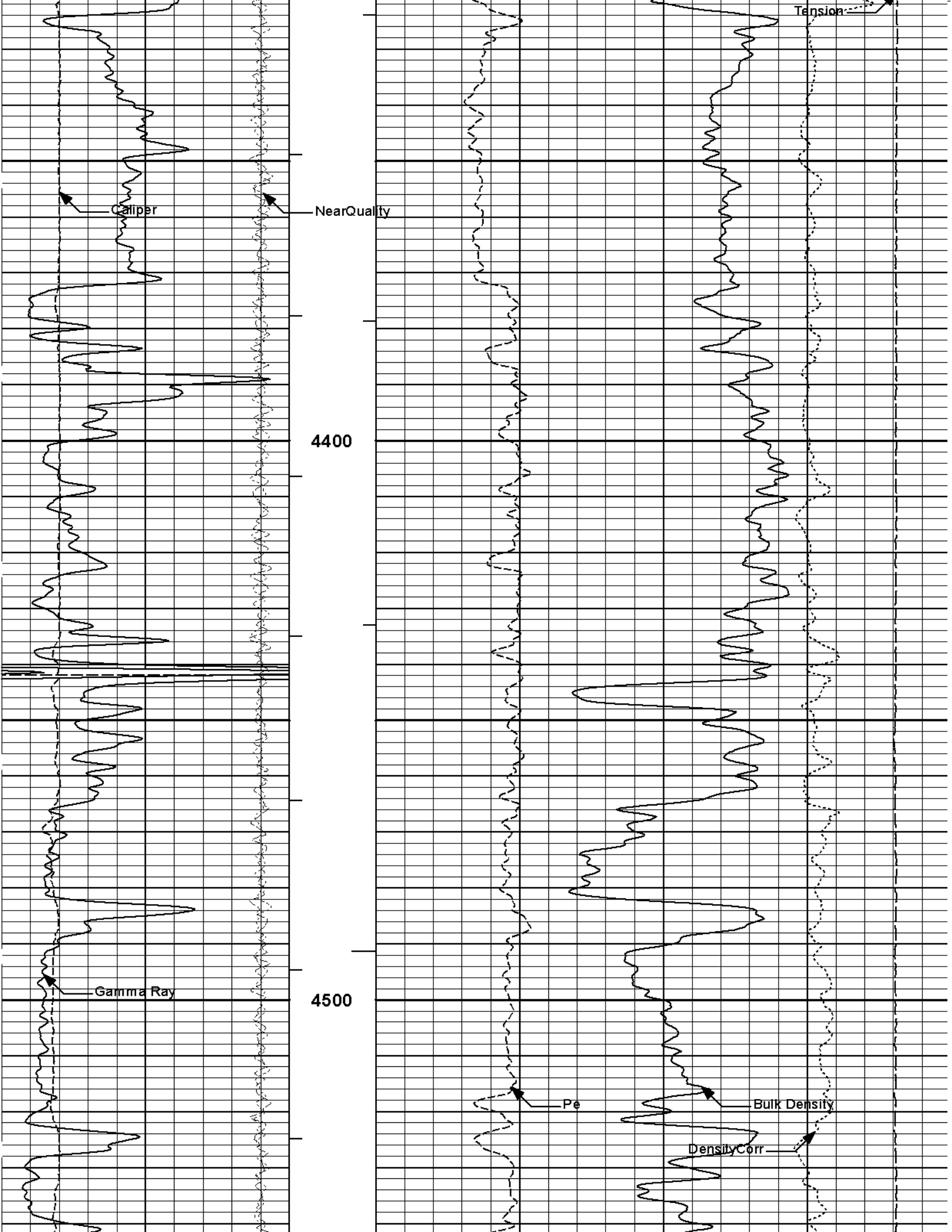


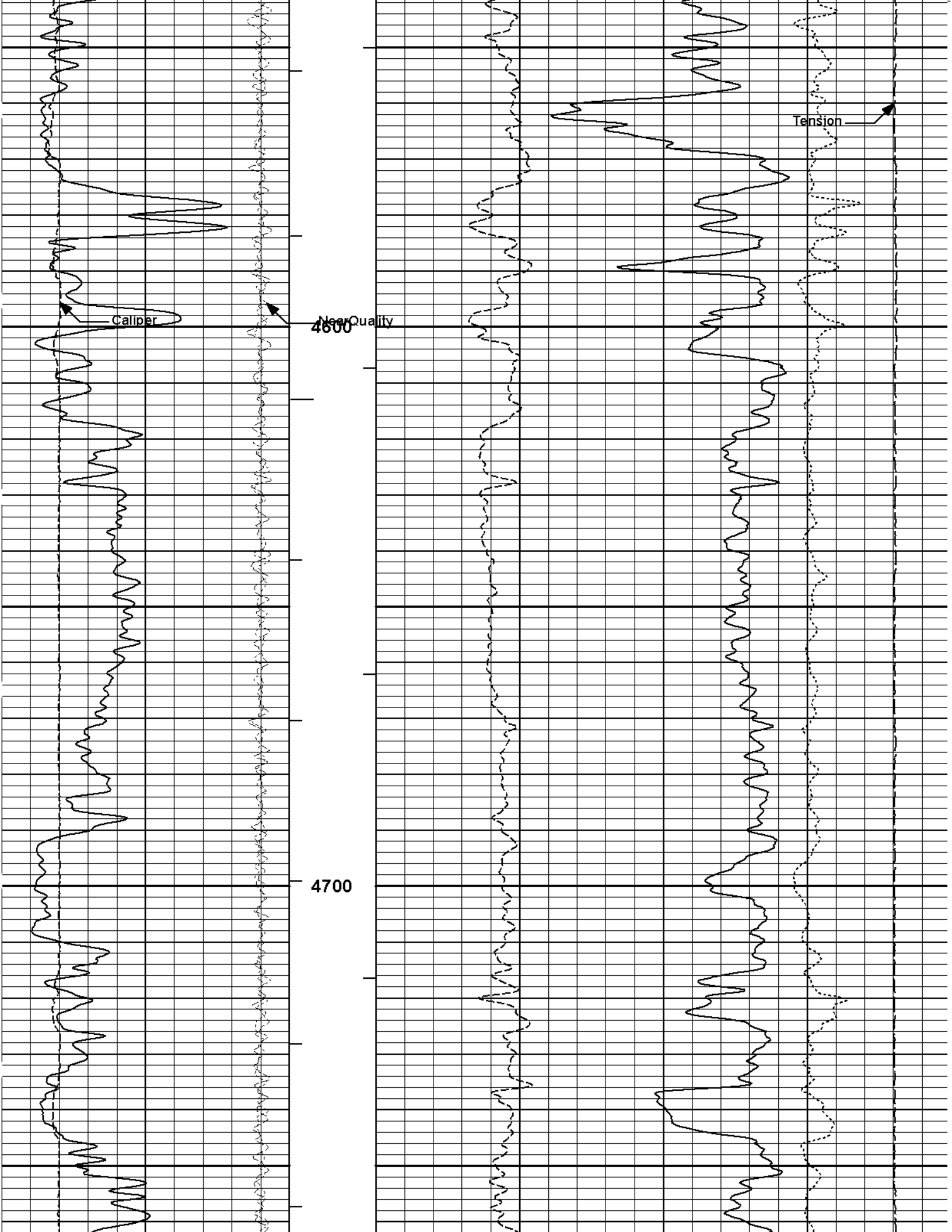


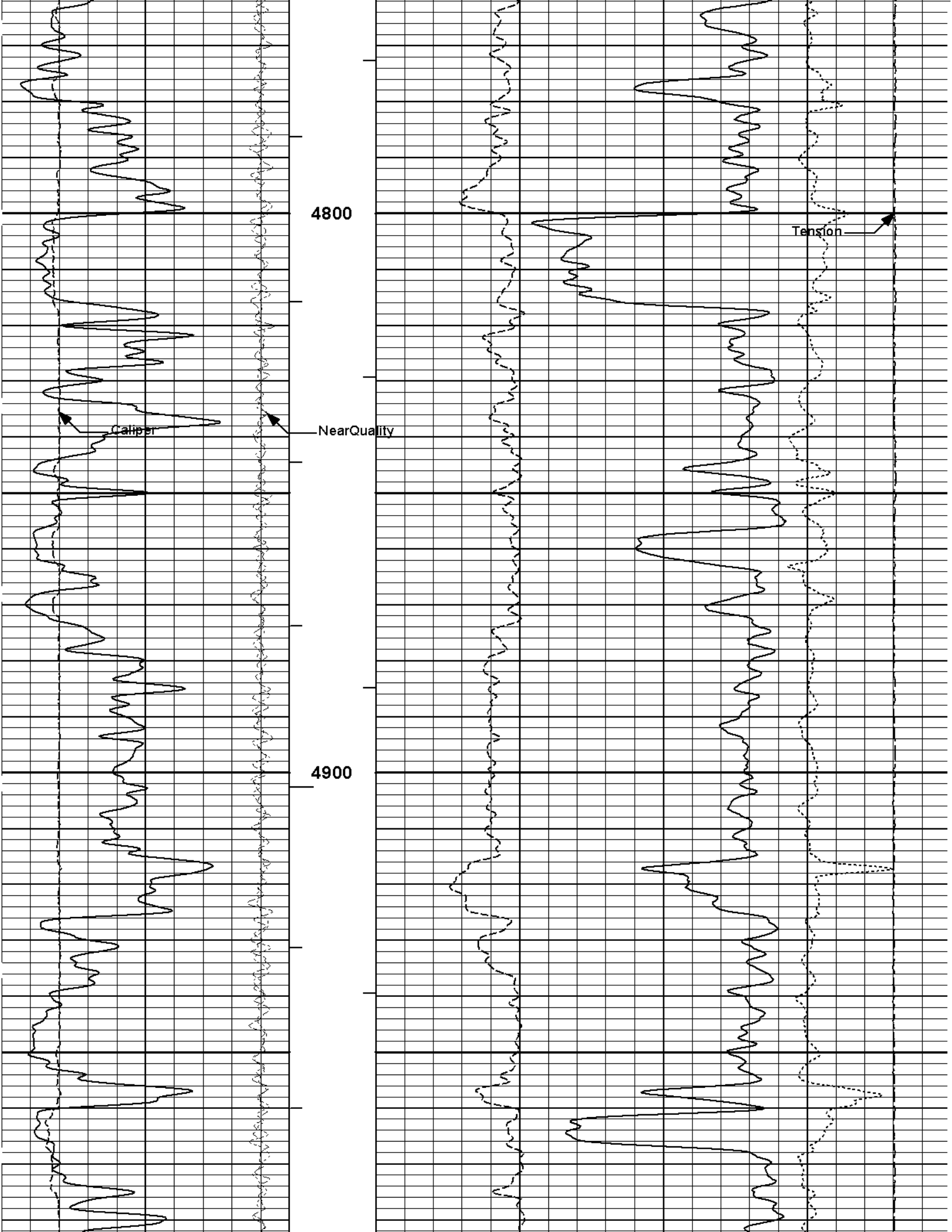


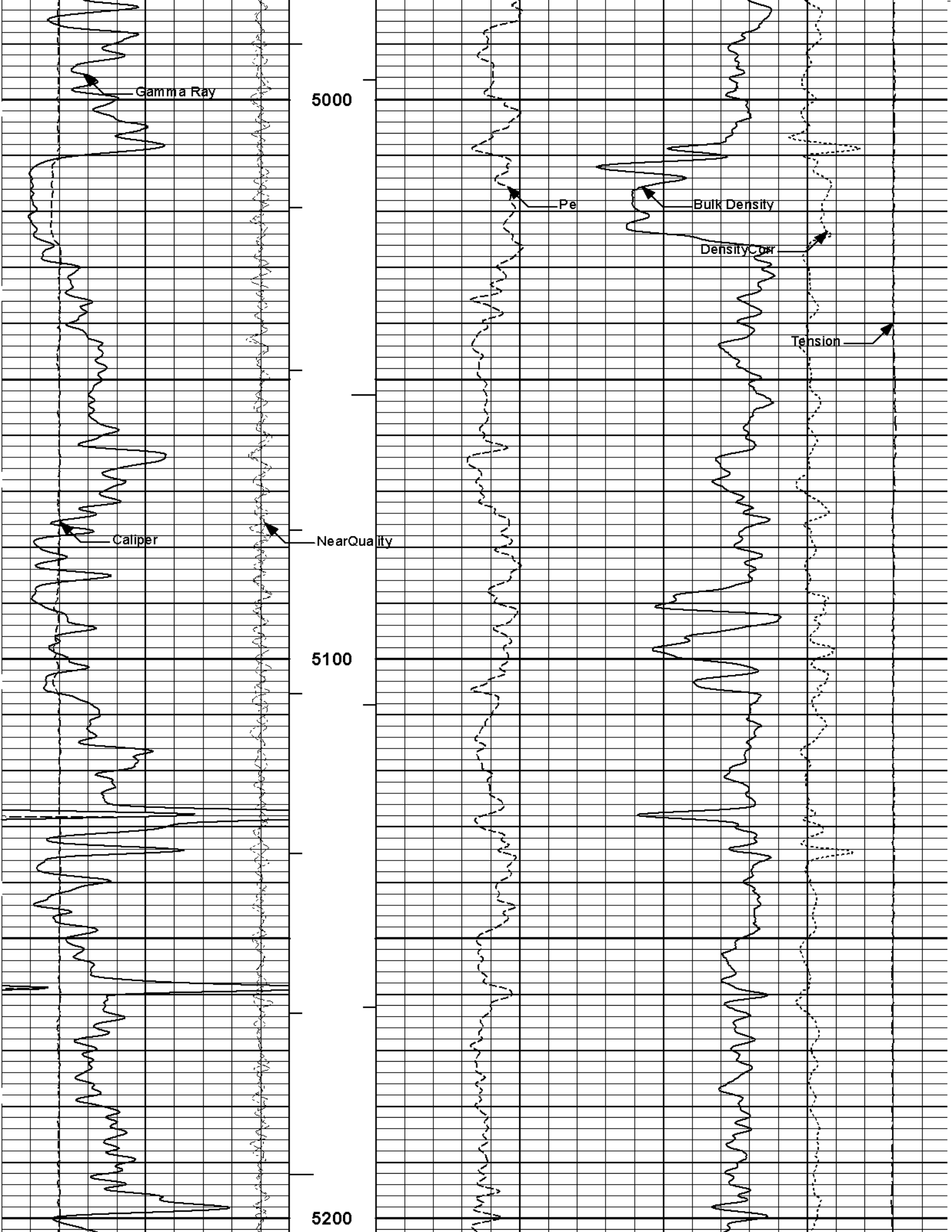


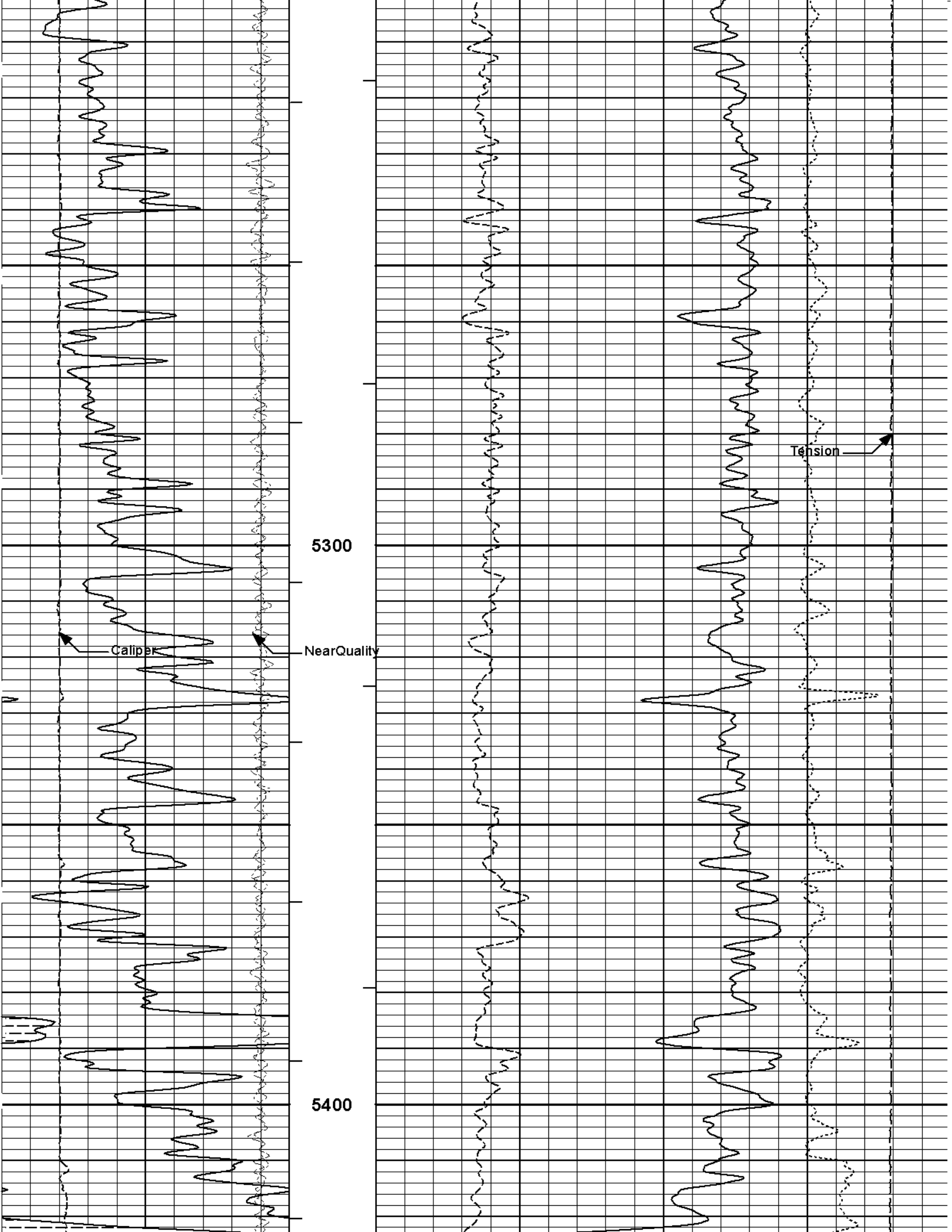


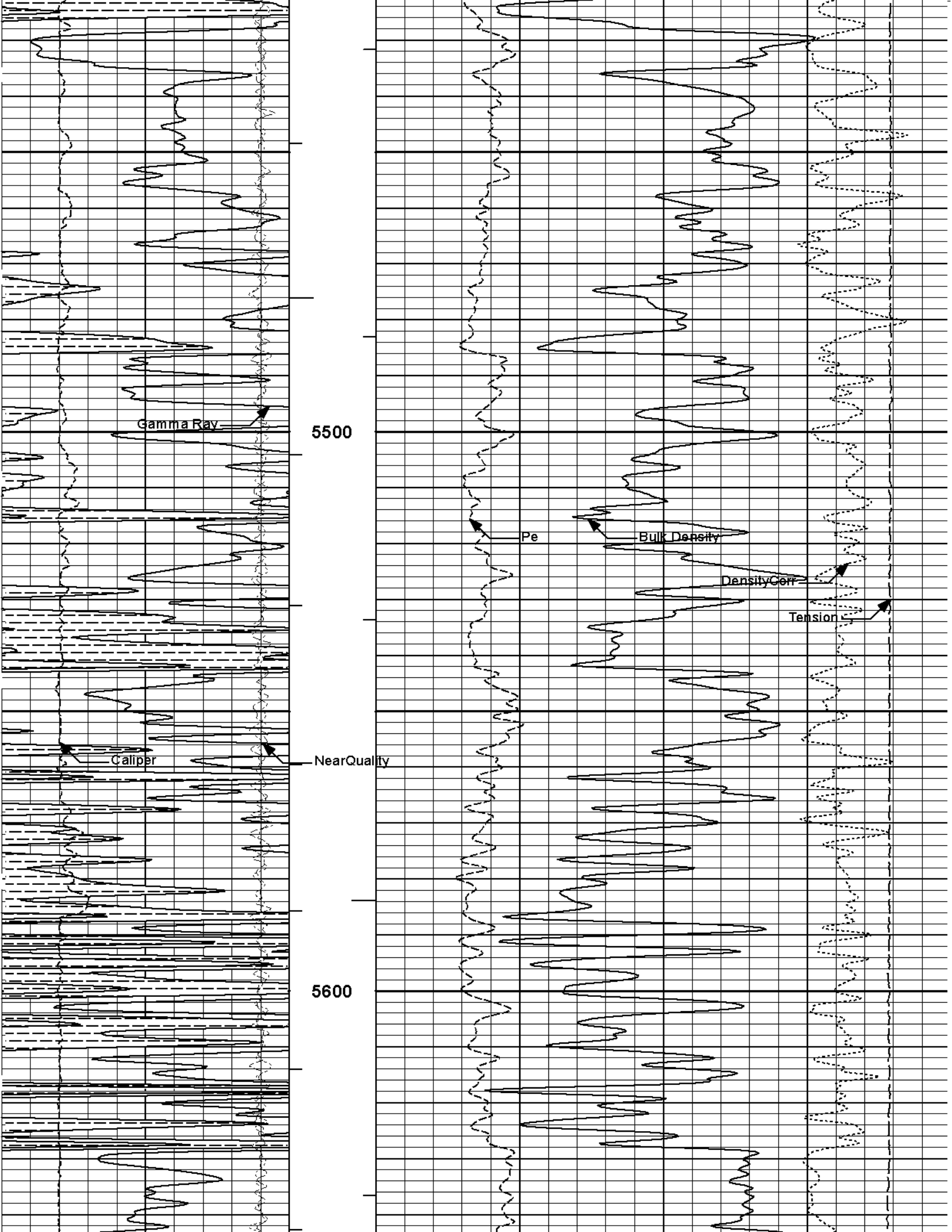


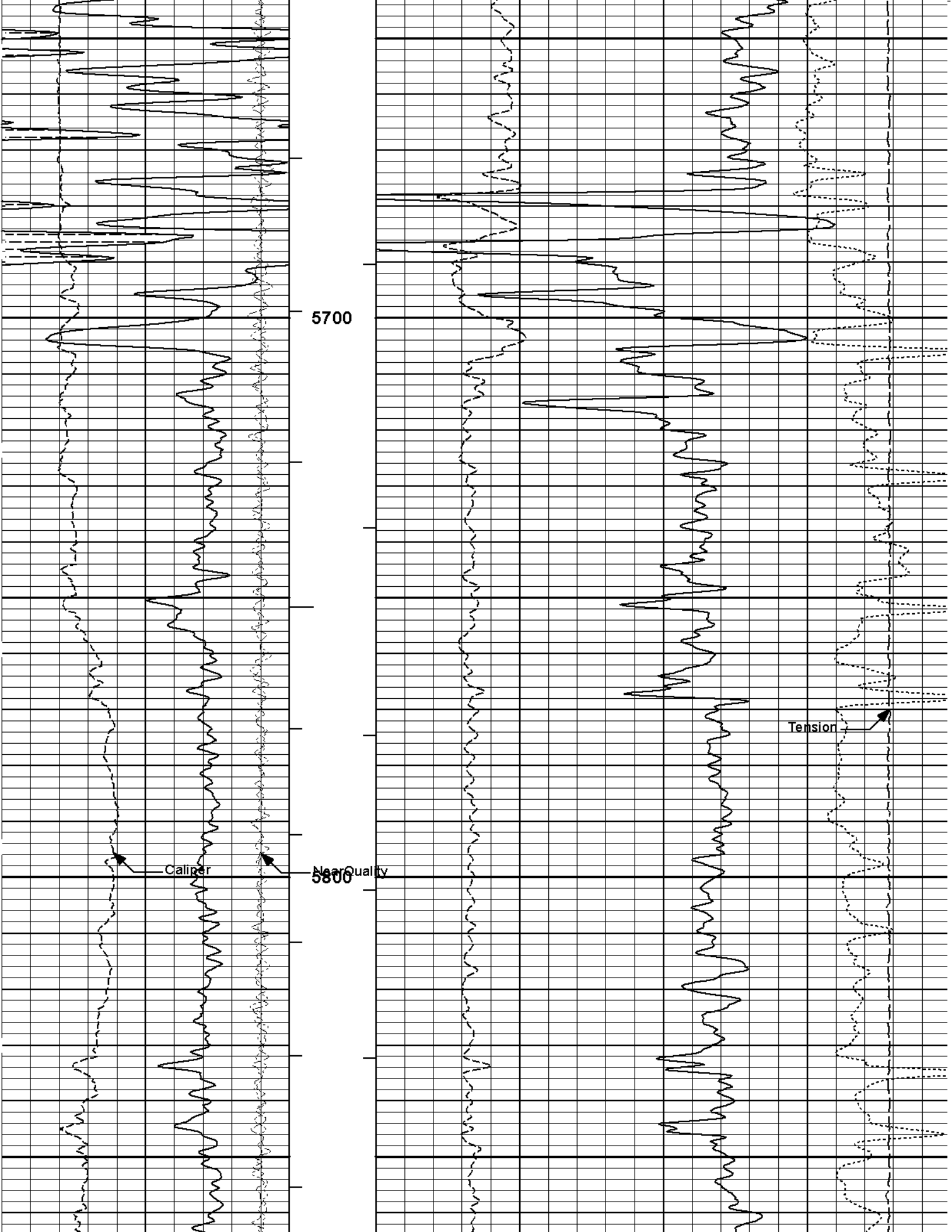


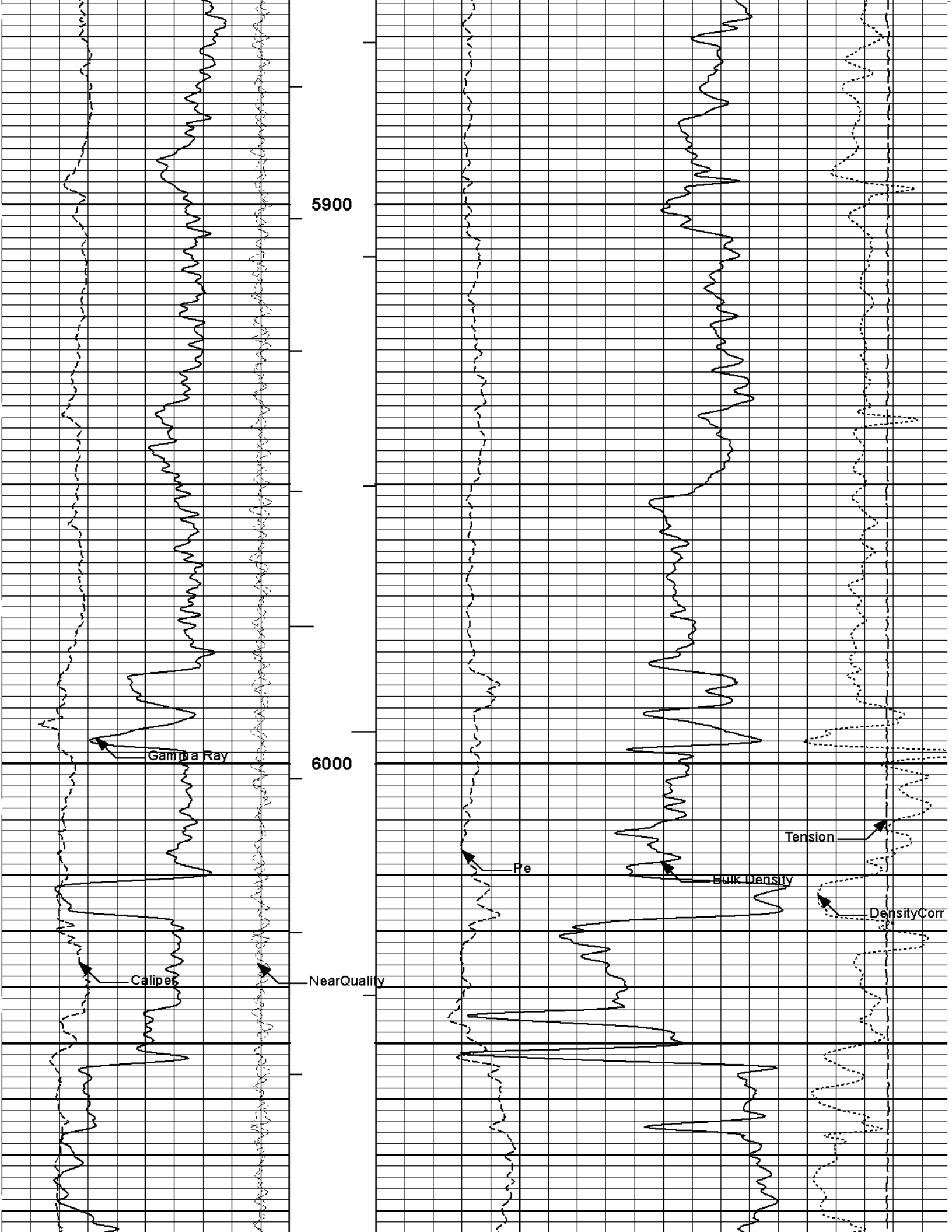


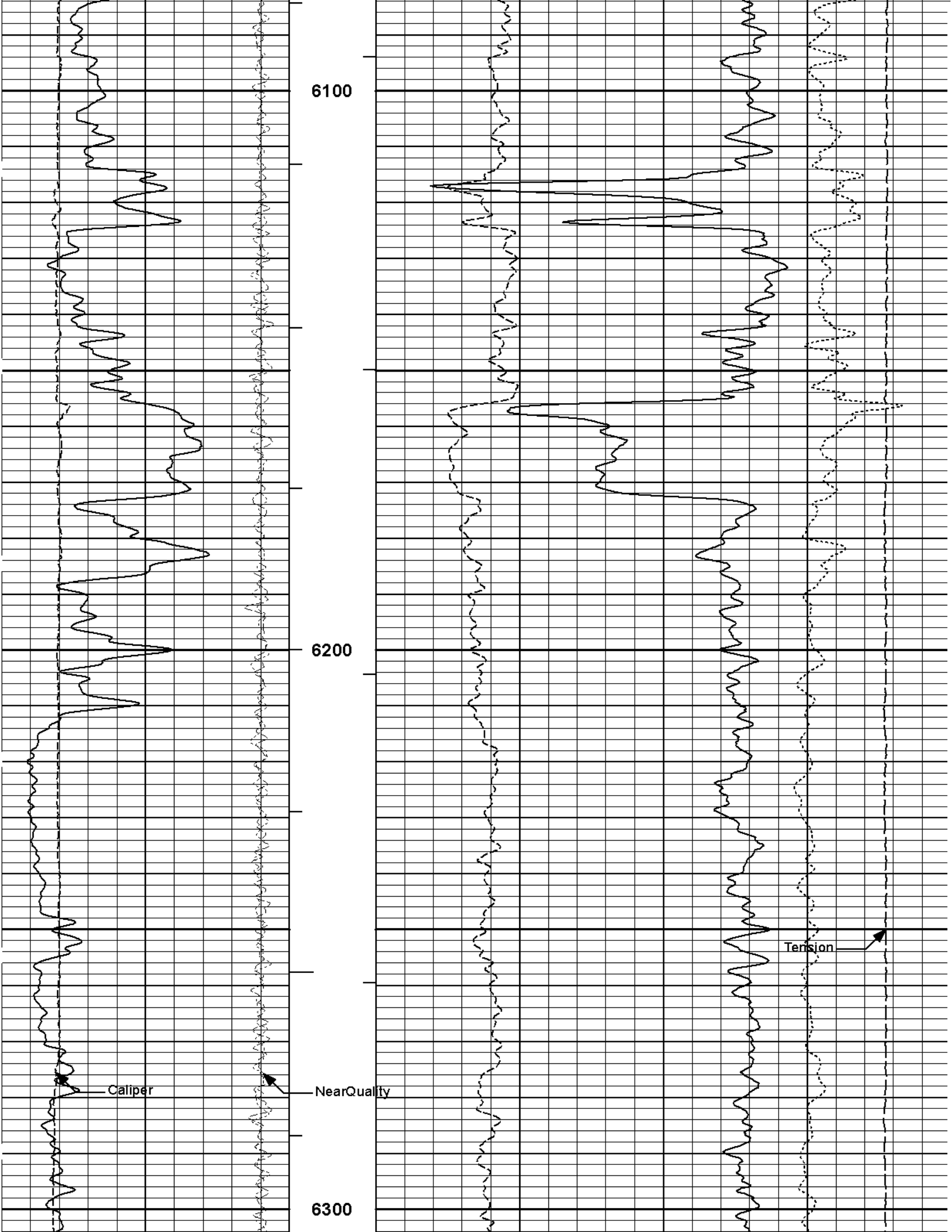


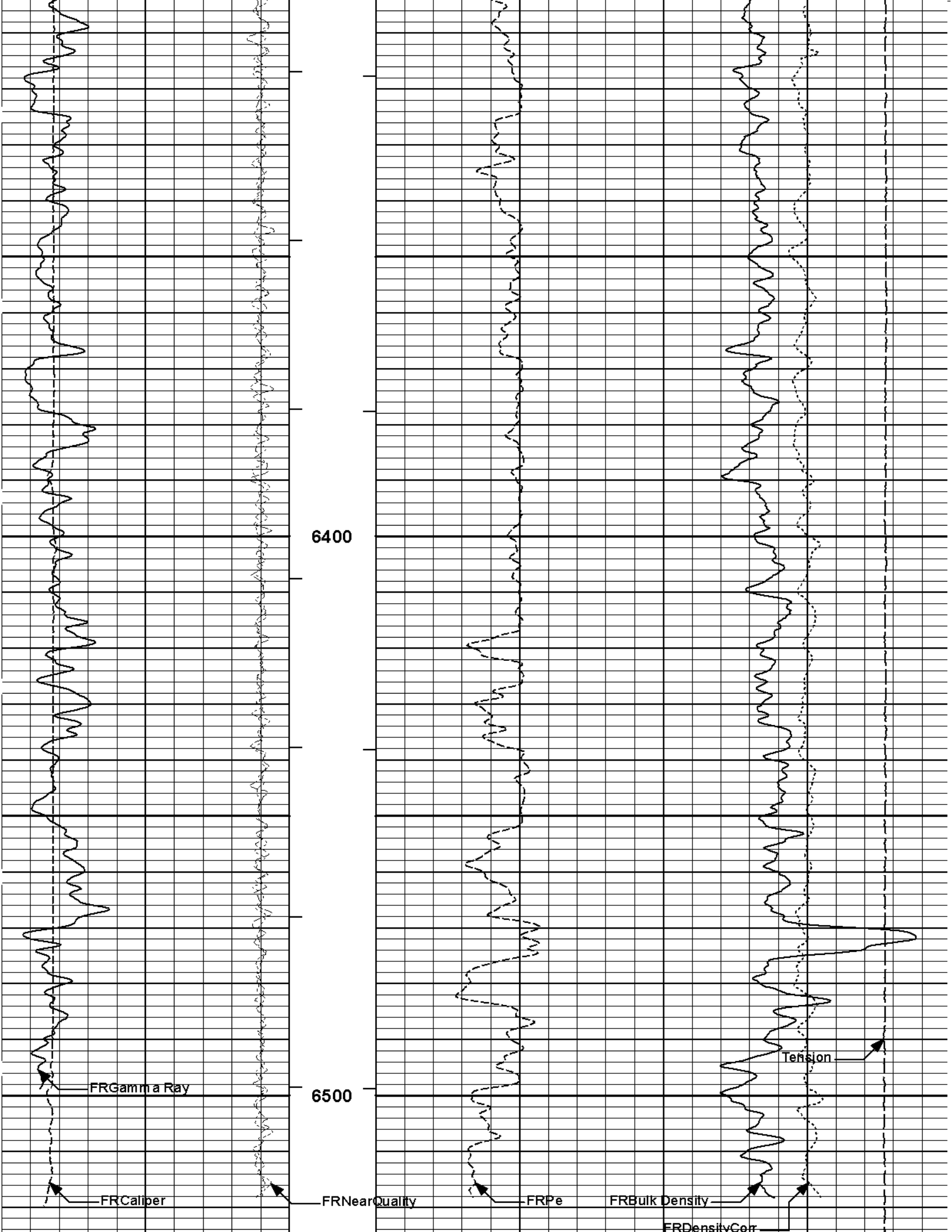


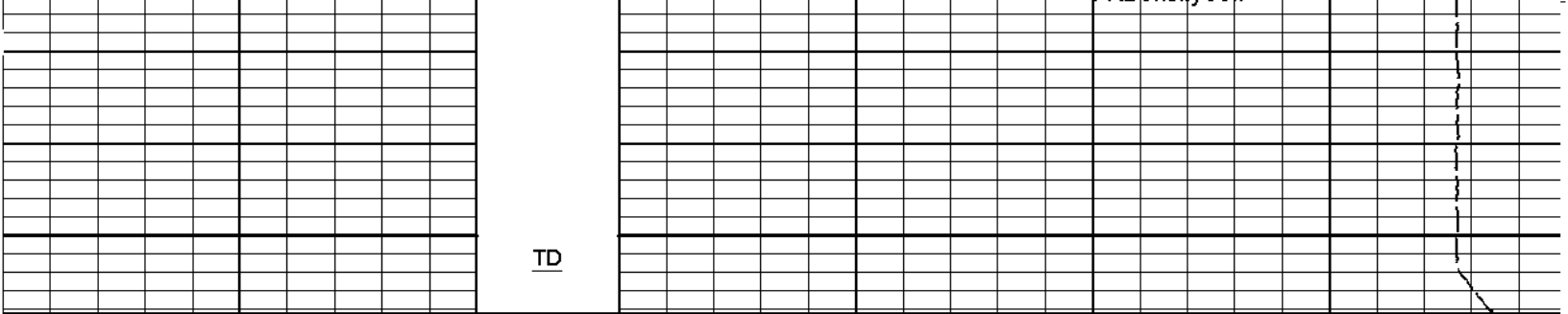












TD

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	Tension Pull	10	0				
	api								
SHALE			Tension Pull						

HALLIBURTON

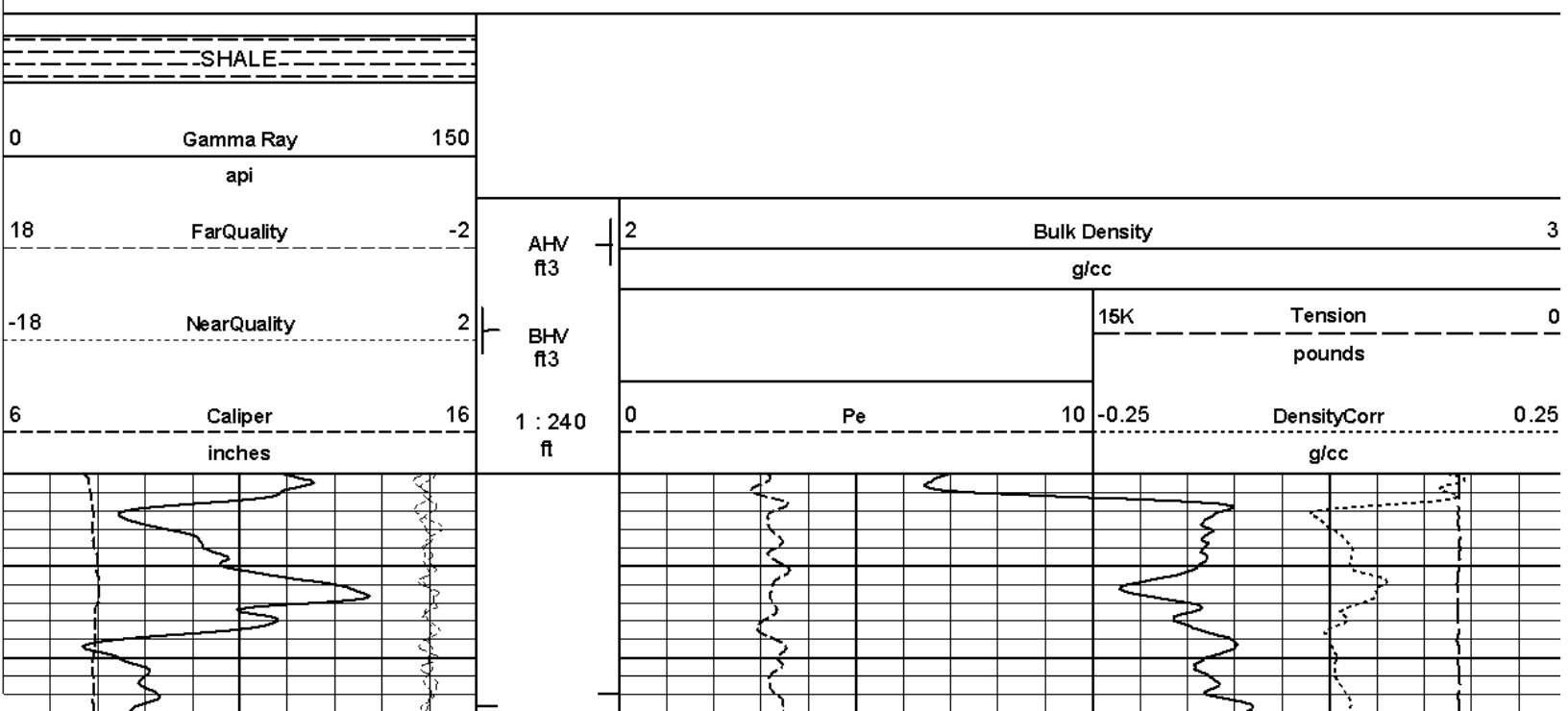
Plot Time: 12-Jul-11 10:33:26
 Plot Range: 3250 ft to 6558.42 ft
 Data: GILLESPIE_21_1\Well Based\DAQ-0001-DETAIL\
 Plot File: \\LOCAL-1\GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIPORO\BULKD_5_MAIN_LIB

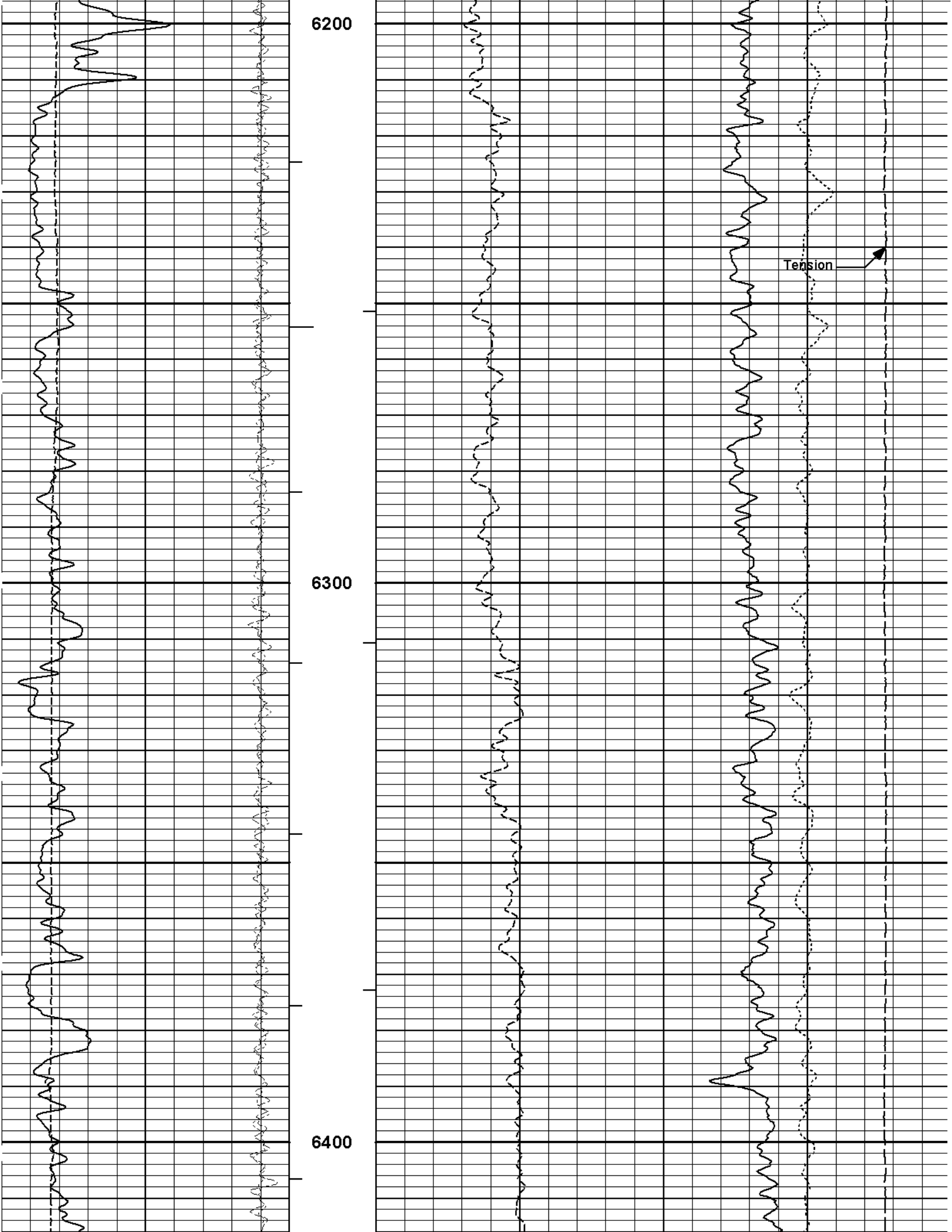
5 INCH MAIN LOG

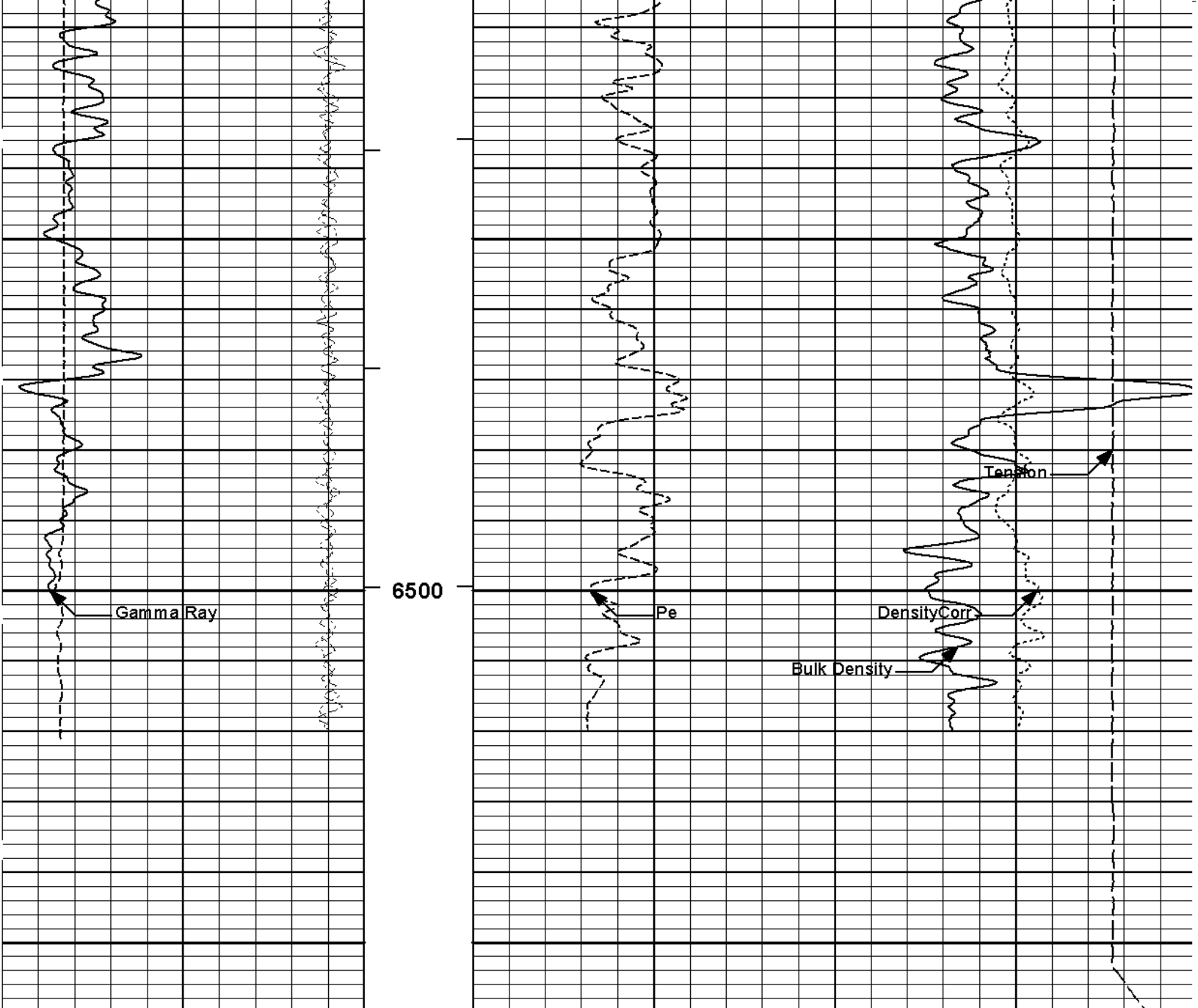
HALLIBURTON

Plot Time: 12-Jul-11 10:33:26
 Plot Range: 6170 ft to 6559.5 ft
 Data: GILLESPIE_21_1\Well Based\DAQ-0001-REPEAT\
 Plot File: \\LOCAL-1\GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIPORO\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								

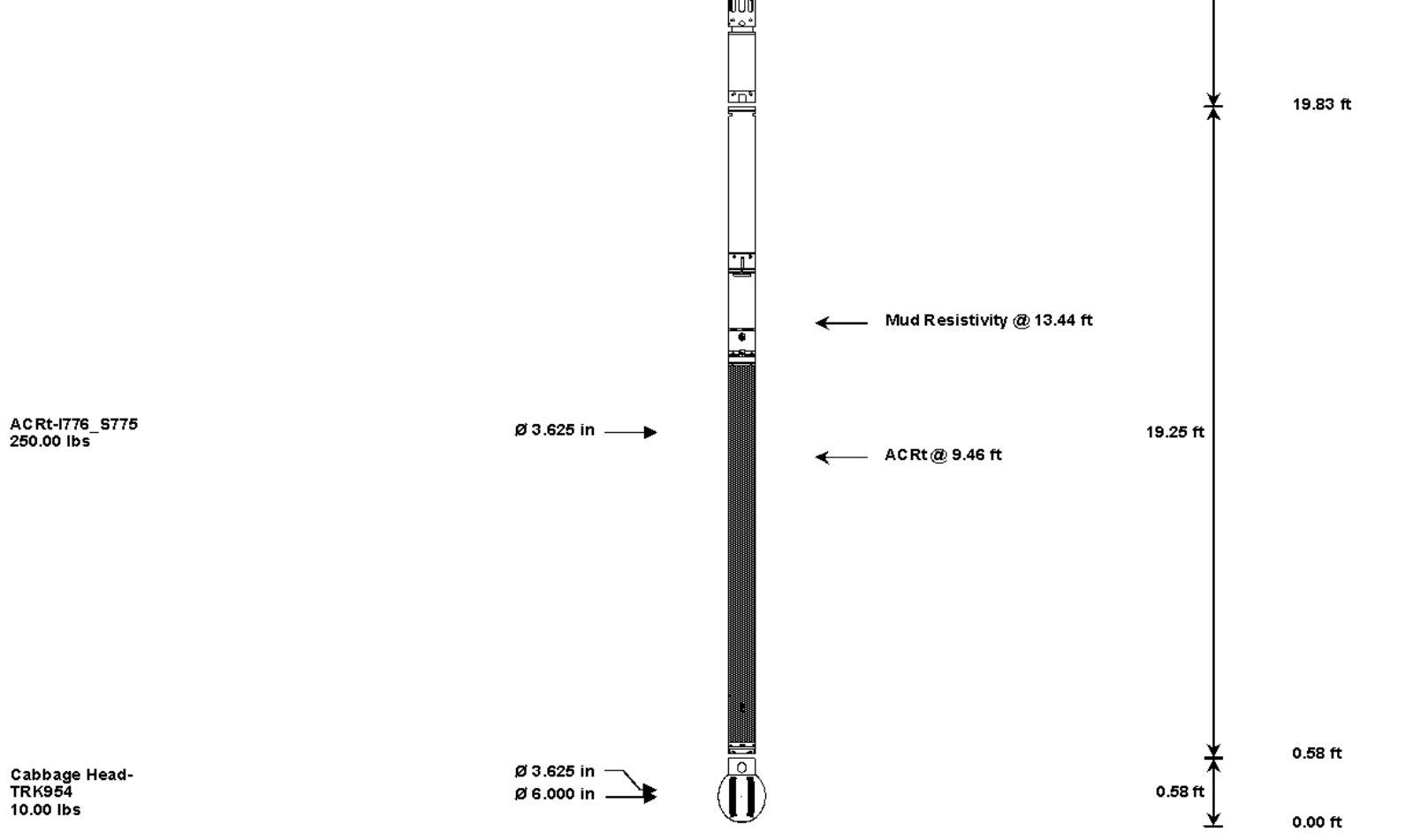
HALLIBURTON

Plot Time: 12-Jul-11 10:33:28
 Plot Range: 6170 ft to 6559.5 ft
 Data: GILLESPIE_21_1\Well Based\DAQ-0001-REPEAT1
 Plot File: \\LOCAL-1\GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CH\PORO1\BULKD_5_REP_LIB

REPEAT SECTION

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	70.28 ft
SP Sub-TRK954 60.00 lbs		Ø 3.625 in →		← SP @ 66.59 ft	3.74 ft	68.36 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →		← GammaRay @ 58.56 ft	8.52 ft	64.63 ft
DSN Decentralizer- 11005605 6.60 lbs	DSNT-10755066 174.00 lbs	Ø 3.625 in ⁿ →		← DSN Far @ 49.17 ft ← DSN Near @ 48.42 ft	9.69 ft	56.10 ft
		Ø 3.625 in →				
SDLT- 1066_M85803_P45 360.00 lbs		Ø 4.500 in →		← SDL Microlog @ 38.60 ft ← SDL Caliper @ 38.42 ft ← SDL @ 38.41 ft	10.81 ft	46.42 ft
		Ø 4.750 in →				
BSAT-10747683 300.00 lbs		Ø 3.625 in →	← Sonic Receivers @ 27.09 ft	15.77 ft	35.60 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head	PROT01	30.00	1.92	68.36	300.00
SP	SP Sub	TRK954	60.00	3.74	64.63	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52	56.10	60.00
DSNT	Dual Spaced Neutron	10755066	174.00	9.69	46.42	60.00
DCNT	DSN Decentralizer	11005605	6.60	5.13 *	49.75	300.00
SDLT	Spectral Density Tool	I066_M85803_P45	360.00	10.81	35.60	60.00
BSAT	Borehole Sonic Array Tool	10747683	300.00	15.77	19.83	60.00
ACRt	Array Compensated True Resistivity	I776_S775	250.00	19.25	0.58	300.00
CBHD	Cabbage Head	TRK954	10.00	0.58	0.00	300.00
Total			1,355.60	70.28		

* Not included in Total Length and Length Accumulation.

Data: GILLESPIE_21_110001 SP-GTET-DSN-SDL-BSAT-ACRT-CHHDLE Date: 12-Jul-11 05:17:56

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: **GTET - 10811258** Reference Calibration Date: **20-May-11 16:40:55**
 Engineer: **C. MARLOWE** Calibration Date: **15-Jun-11 10:17:57**
 Software Version: **WL INSITE R3.2.5 (Build 2)** Calibration Version: **1**

Calibrator Source S/N: TB-185
 Calibrator API Reference: 228.00 api
 Equivalent Calibrator API Reference: 232.0 api

Measurement	Measured	Calibrated	Units
Background	55.8	56.4	api
Background + Calibrator	285.5	288.4	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION**Tool Name:** GTET - 10811258**Reference Calibration Date:** 15-Jun-11 10:17:57**Engineer:** S. JUNG**Calibration Date:** 12-Jul-11 04:07:40**Software Version:** WL INSITE R3.2.5 (Build 2)**Calibration Version:** 1

Calibrator Source S/N: TB-185

Calibrator API Reference:228.00 api

Equivalent Calibrator API Reference:232.0 api

Field Verification	Shop	Field	Units
Background	56.4	31.1	api
Background + Calibrator	288.4	264.5	api
Calibrator	232.0	233.4	api

Shop	Field	Difference	Tolerance
232.0	233.4	-1.4	+/- 9.00

NATURAL GAMMA RAY TOOL POST CALIBRATION**Tool Name:** GTET - 10811258**Reference Calibration Date:** 12-Jul-11 04:07:40**Engineer:** S. JUNG**Calibration Date:** 12-Jul-11 10:13:57**Software Version:** WL INSITE R3.2.5 (Build 2)**Calibration Version:** 1

Calibrator Source S/N: TB-185

Calibrator API Reference:228.00 api

Calibrator API Reference:232.0 api

Post Verification	Field	Post	Units
Background	31.1	60.9	api
Background + Calibrator	264.5	288.8	api
Calibrator	233.4	228.0	api

Shop	Field	Post	Difference	Tolerance
232.0	233.4	228.0	5.4	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION**Tool Name:** DSNT - 10755066**Reference Calibration Date:** 18-May-11 20:25:37**Engineer:** C. HAVERKAMP**Calibration Date:** 18-Jun-11 10:14:15**Software Version:** WL INSITE R3.2.5 (Build 2)**Calibration Version:** 1

Logging Source S/N: DSN-436

Tank Serial Number: 105060

Reference value assigned to Tank: 51.680

Snow Block S/N: TRK_10782954

Calibration Tank Water Temperature: 84 degF

Min. Tool Housing Outside Diameter: 3.615 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.950	0.952	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)

Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decg):	0.2097	0.2103	0.0006	+/- 0.0020

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (dec):	0.0590	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 - 10755066	Reference Calibration Date: 18-Jun-11 10:14:15
Engineer: S. JUNG	Calibration Date: 12-Jul-11 04:10:29
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

Logging Source S/N: DSN-436
Snow Block S/N: TRK_10782954

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (dec):	0.0590	0.0585	-0.0006	+/- 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 - 10755066	Reference Calibration Date: 12-Jul-11 04:10:29
Engineer: S. JUNG	Calibration Date: 12-Jul-11 10:28:13
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

Logging Source S/N: DSN-436
Snow Block S/N: TRK_10782954

NEUTRON POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (dec):	0.0585	0.0550	-0.0035	+/- 0.0150

PASS/FAIL SUMMARY

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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT - I066_M85803_P45	Reference Calibration Date: 18-May-11 19:53:14
Engineer: C. MARLOWE	Calibration Date: 15-Jun-11 13:49:07
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

Logging Source S/N: 5073GW
Aluminum Block S/N: 63061
Magnesium Block S/N: 63393

Density: 2.591g/cc	Pe: 3.170
Density: 1.690g/cc	Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	0.9719	0.9833	0.90 - 1.10
Near Dens Gain	0.9728	0.9718	0.90 - 1.10
Near Peak Gain	0.9701	0.9666	0.90 - 1.10
Near Lith Gain	0.9477	0.9589	0.90 - 1.10
Far Bar Gain	0.9870	0.9891	0.90 - 1.10
Far Dens Gain	0.9794	0.9804	0.90 - 1.10
Far Peak Gain	0.9739	0.9761	0.90 - 1.10
Far Lith Gain	0.9509	0.9511	0.90 - 1.10
Near Bar Offset	0.4697	0.3728	NONE
Near Dens Offset	0.4334	0.4435	NONE
Near Peak Offset	0.4302	0.4554	NONE
Near Lith Offset	0.5827	0.4791	NONE
Far Bar Offset	0.2256	0.2144	NONE
Far Dens Offset	0.2760	0.2716	NONE
Far Peak Offset	0.2893	0.2759	NONE
Far Lith Offset	0.4060	0.4034	NONE
Near Bar Background	1019.61	1017.14	700 - 1450
Near Dens Background	337.91	336.72	230 - 480
Near Peak Background	147.10	147.16	100 - 210
Near Lith Background	179.77	180.00	125 - 260
Far Bar Background	522.42	524.89	450 - 900
Far Dens Background	203.37	201.71	175 - 345
Far Peak Background	78.36	79.21	70 - 140
Far Lith Background	84.72	83.74	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.693	1.690	-0.003	+/- 0.015
Pe	2.465	2.558	0.093	+/- 0.150
ALUMINUM				
Density (g/cc)	2.591	2.591	0.000	+/- 0.01500
Pe	3.028	3.133	0.105	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0013	+/- 0.0110	0.0002	+/- 0.0140
Magnesium Block	-0.0006	+/- 0.0110	-0.0017	+/- 0.0140
Aluminum Block	0.0013	+/- 0.0110	0.0012	+/- 0.0140
Resolution	9.93	6.00 - 11.50	9.25	6.00 - 11.50
Internal Verifier(B+D+P+L)	1681	1200 - 2700	890	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 - I066_M85803_P45	Reference Calibration Date: 15-Jun-11 13:49:07
Engineer: S. JUNG	Calibration Date: 12-Jul-11 04:07:29
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

Pad Temperature: 89.3 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1681.017	1686.193	5.176	16.462
Far (B+D+P+L) cps	889.552	896.168	6.616	16.248
Near Resolution	9.93	9.95	0.020	0.50
Far Resolution	9.25	10.04	0.790	1.00

PASS/FAIL SUMMARY

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

SPECTRAL DENSITY POST CHECK

Tool Name: SDLT - I066_M85803_P45	Reference Calibration Date: 12-Jul-11 04:07:29
Engineer: S. JUNG	Calibration Date: 12-Jul-11 10:13:11
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

Pad Temperature: 89.3 degF

DENSITY POST CALIBRATION SUMMARY

Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1686.193	1688.490	2.297	16.462
Far (B+D+P+L) cps	896.168	896.234	0.066	16.248
Near Resolution	9.95	10.30	0.350	0.50
Far Resolution	10.04	10.24	0.200	1.00

PASS/FAIL SUMMARY

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - I066_M85803_P45	Reference Calibration Date: 02-May-11 16:13:44
Engineer: S. JUNG	Calibration Date: 12-Jul-11 04:19:15
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-5183.32	-5270.37	-7000.00 - -1000.00
Pad Gain	0.0003697	0.0003721	0.000200 - 0.000600
Arm Offset	-44.48	-579.04	-5000.00 - 3000.00
Arm Gain	0.0003987	0.0004414	0.000300 - 0.000700
Arm Power	0.000002658	-0.000000209	-0.000010 - 0.000010

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

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)	2.02	2.00	-0.02	+/- 0.20
Medium Ring (in)	3.76	3.75	-0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.57	6.50	-0.07	+/- 0.20
Medium Ring (in)	8.23	8.25	0.02	+/- 0.20
Large Ring (in)	14.91	15.00	0.09	+/- 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 - I066_M85803_P45 **Reference Calibration Date:** 12-Jul-11 04:19:15
Engineer: S. JUNG **Calibration Date:** 12-Jul-11 04:21:29
Software Version: WL INSITE R3.2.5 (Build 2) **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.74	-0.01	+/- 0.10
Ring Diameter	8.25	8.31	0.06	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
 Diameter Check: Passed

SDLT CALIPER POST CALIBRATION

Tool Name: SDLT - I066_M85803_P45 **Reference Calibration Date:** 12-Jul-11 04:21:29
Engineer: S. JUNG **Calibration Date:** 12-Jul-11 10:30:13
Software Version: WL INSITE R3.2.5 (Build 2) **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Field	Post	Change	Control Limit On New Value
Pad Extension	3.74	3.74	-0.00	+/- 0.10
Ring Diameter	8.31	8.32	0.02	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
 Diameter Check: Passed

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10811258						
Gamma Ray Calibrator	232.0	233.4	228.0	5.4	+/- 9.00	api
DSNT-10755066						

Snow-Block Porosity							0.0590	0.0585	0.0550	0.0035	+/- 0.0150	decp
SDLT-I066_M85803_P45												
Near(B+D+P+L)	1681.017	1686.193	1688.490	-2.297	+/-16.462	cps						
Far(B+D+P+L)	889.552	896.168	896.234	-0.066	+/-16.248	cps						
Pad Extension	3.75	3.74	3.74	0.00	+/-0.10	in						
Ring Diameter	8.25	8.31	8.32	-0.010	+/-0.15	in						
Data: GILLESPIE_21_110001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIDLE											Date: 12-Jul-11 10:30:48	
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	1.060	ohm m							
	SHARED	TRM	Temperature of Mud	86.0	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	6550.00	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								
	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	0.90	ohm m							
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	85.00	degF							
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohm m							
	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	Centered								
	DSNT	DNOK	Process DSN?	Yes								
	DSNT	DEOK	Process DSN EVR?	No								
	DSNT	NLIT	Neutron Lithology	Limestone								
	DSNT	DN50	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?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRT	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	ohm m
ACRT	RMIN	Maximum Resistivity for MAP	200.00	ohm m
ACRT	THQY	Threshold Quality	0.50	

BOTTOM

Data: GILLESPIE_21_110001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIDLE

Date: 12-Jul-11 08:13:25

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
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
FLI	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
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	

Data: GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIDLE

Date: 12-Jul-11 08:13:38

HALLIBURTON

Plot Time: 12-Jul-11 10:33:28

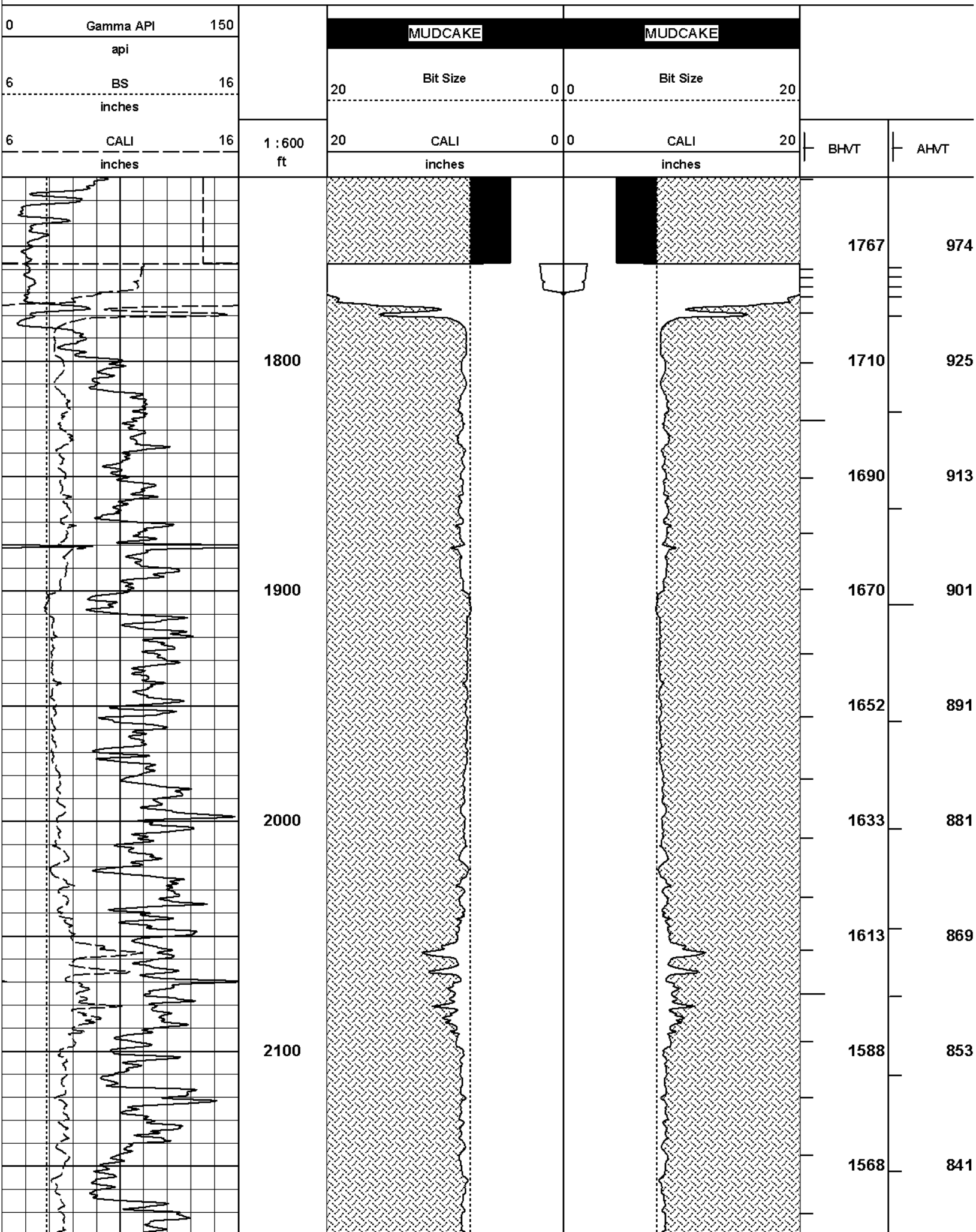
Plot Range: 1720 ft to 6558.33 ft

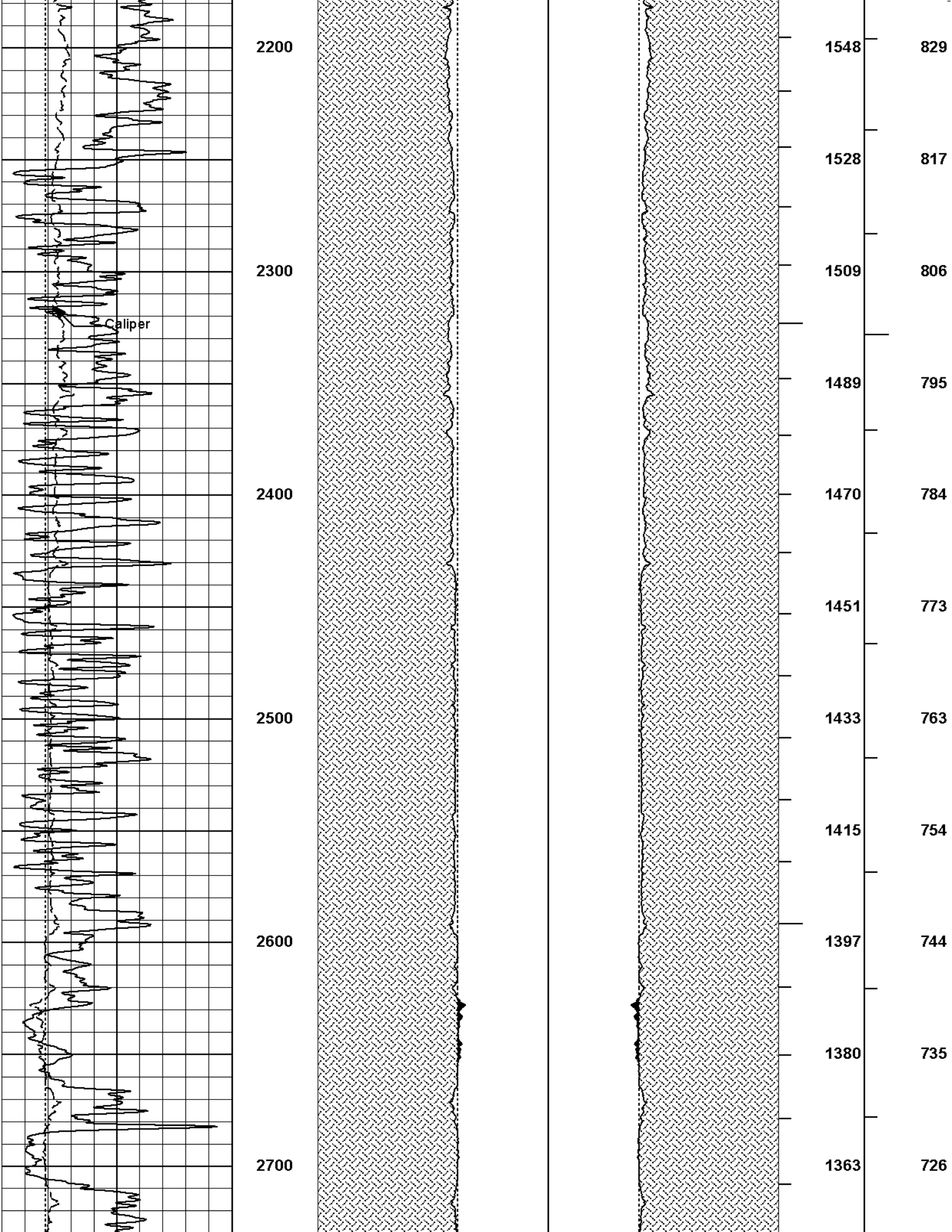
Data: GILLESPIE_21_1\Well Based\DAQ-0001-CSG_5_51

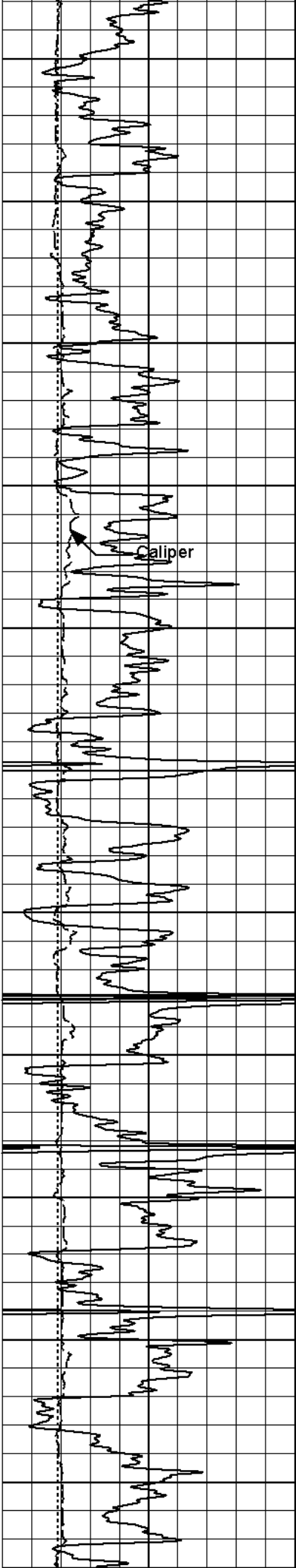
Plot File: \\-LOCAL-GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHPORO\EOG_AHV_5_5_INCH_2_IQ_LIB

ANNUAL HOLE VOLUME PLOT (5.5 INCH)

ANNULAR HOLE VOLUME LIST (0.9 INCH)







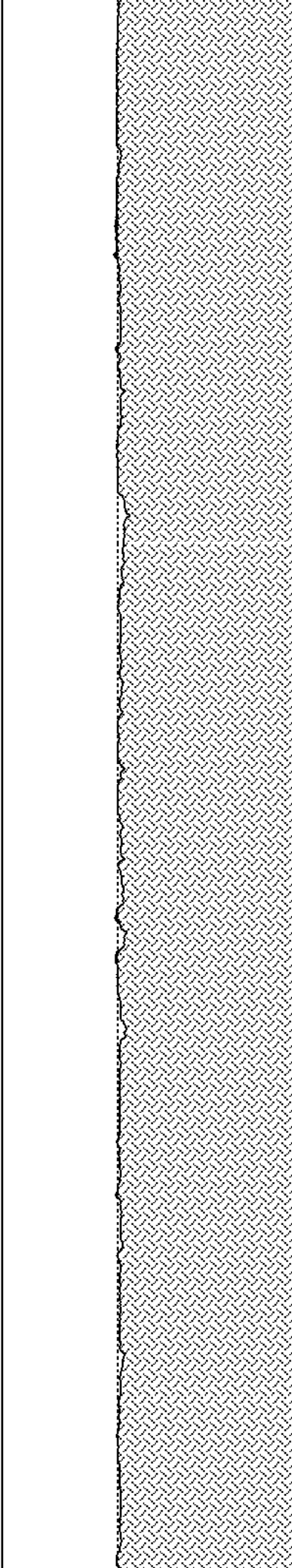
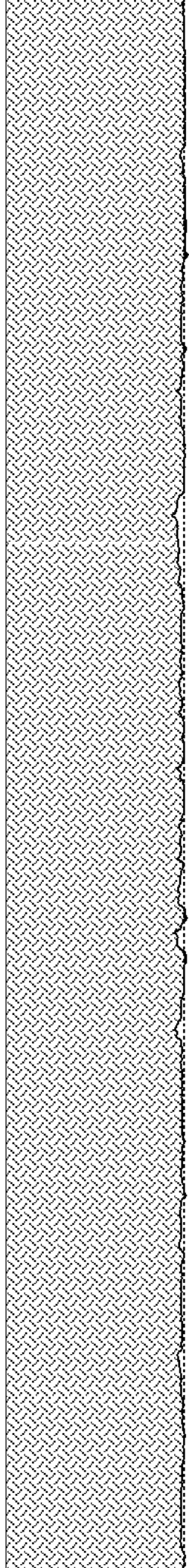
2800

2900

3000

3100

3200



1345

1328

1311

1294

1276

1258

1240

1223

1205

1187

1170

717

708

699

690

680

671

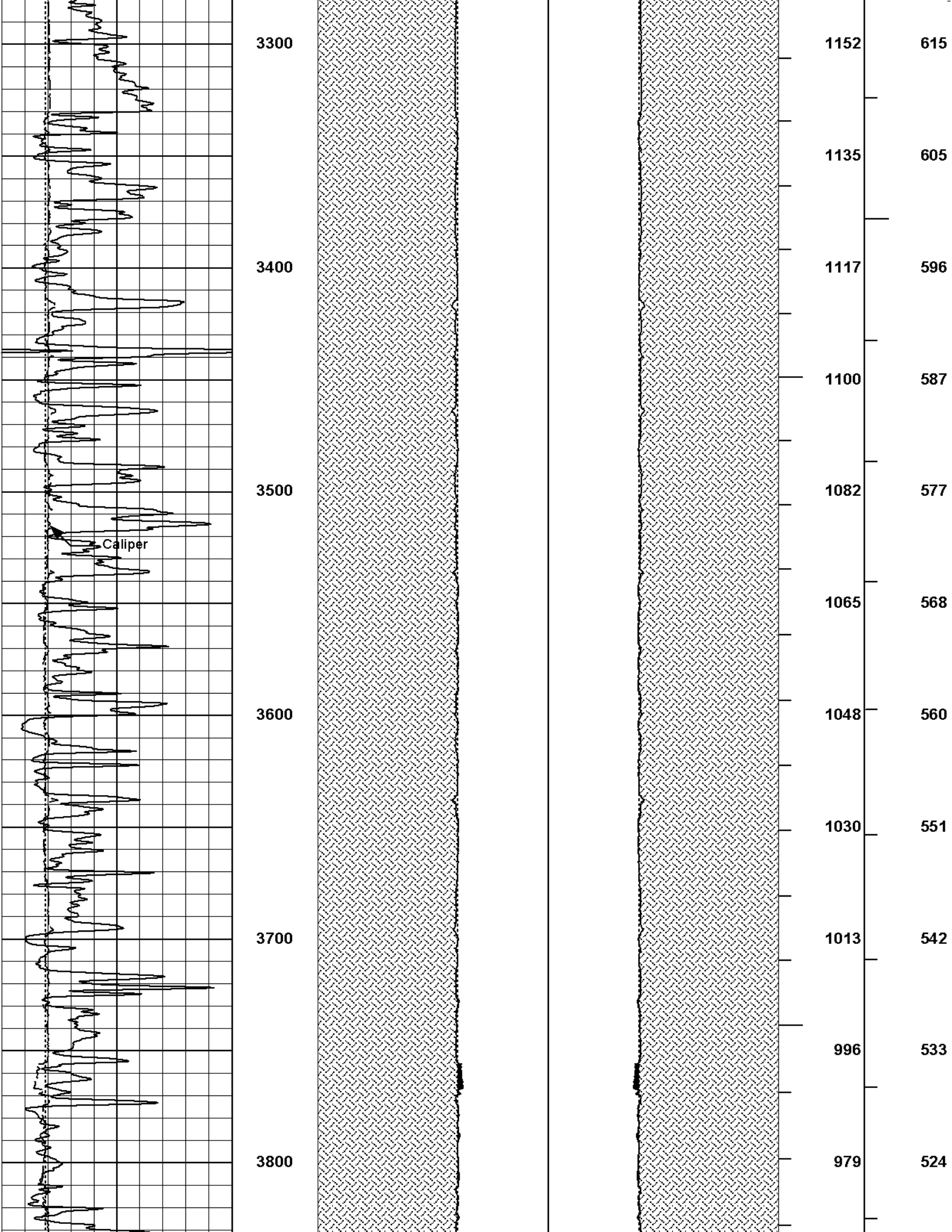
661

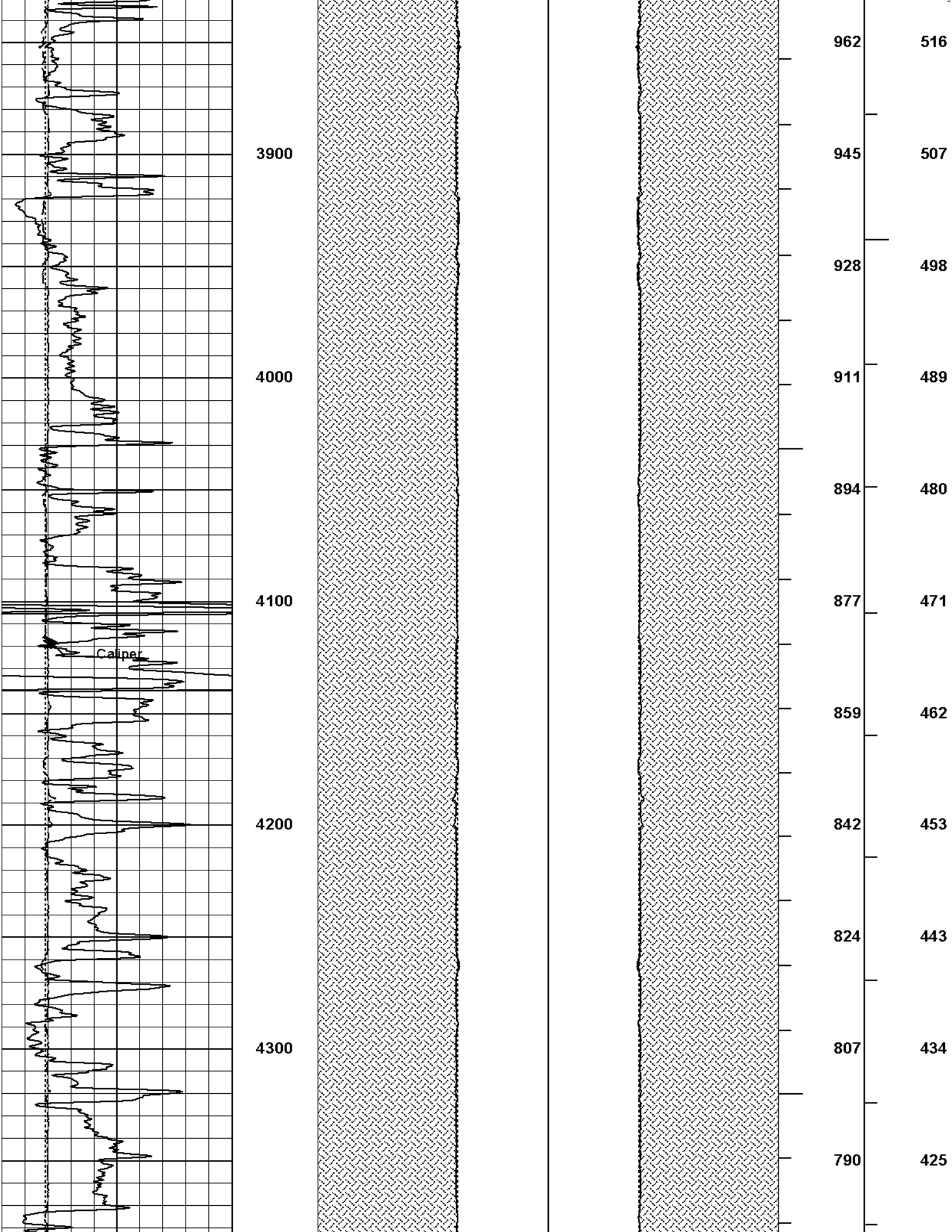
652

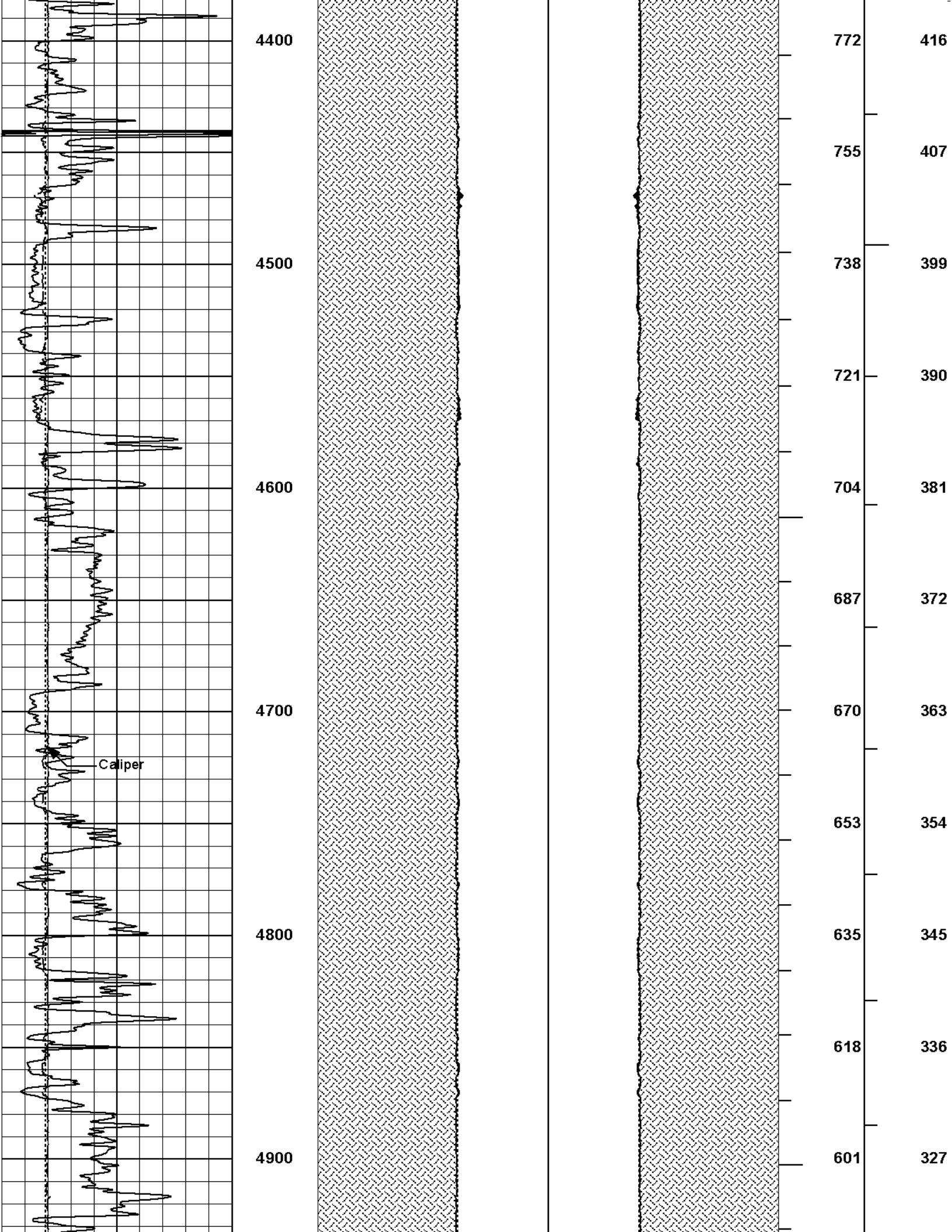
643

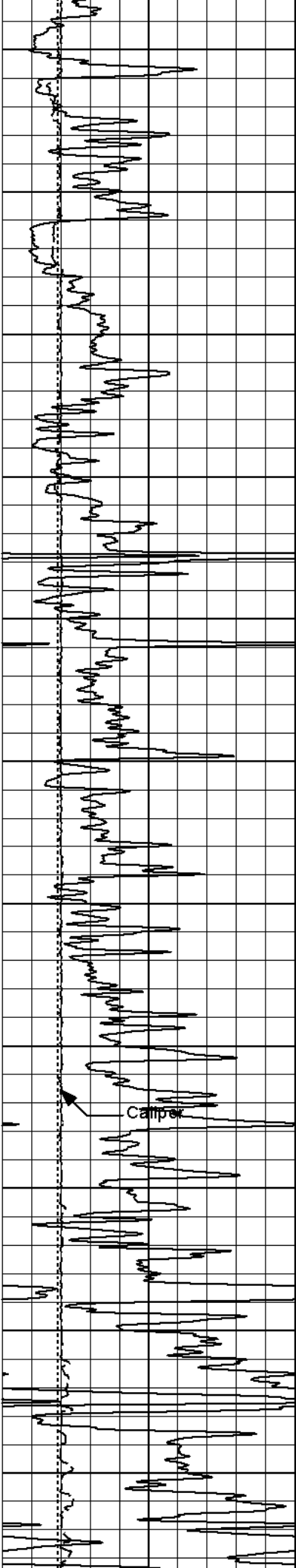
633

624









5000

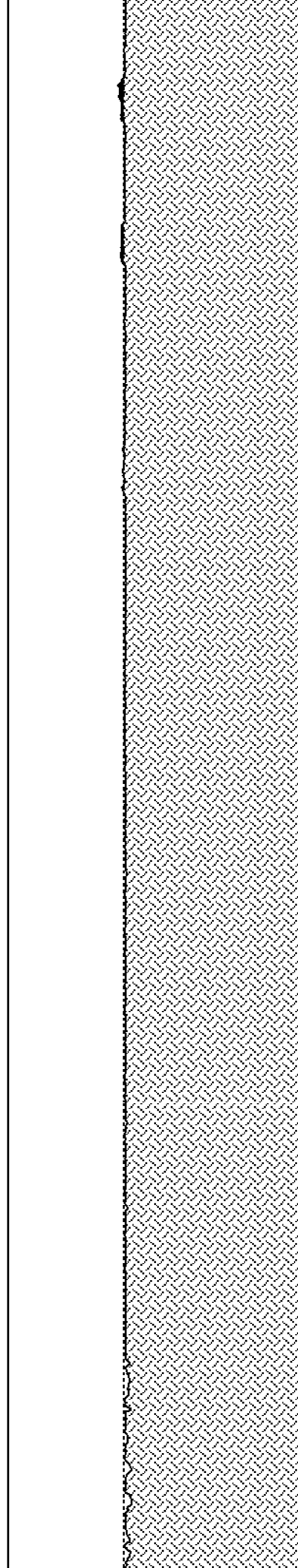
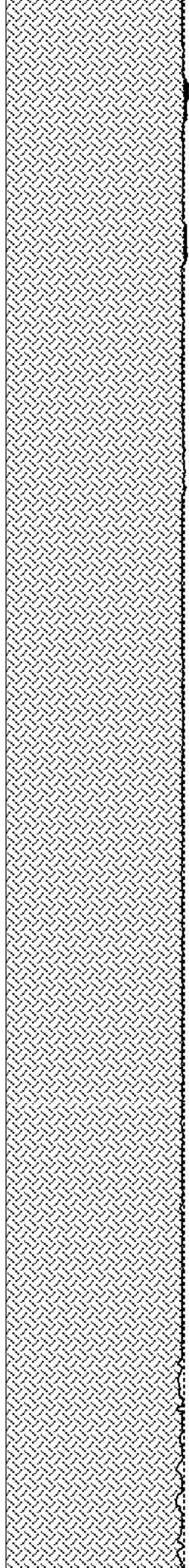
5100

5200

5300

5400

Camp



583

567

549

532

515

497

480

462

445

427

409

318

309

301

291

282

273

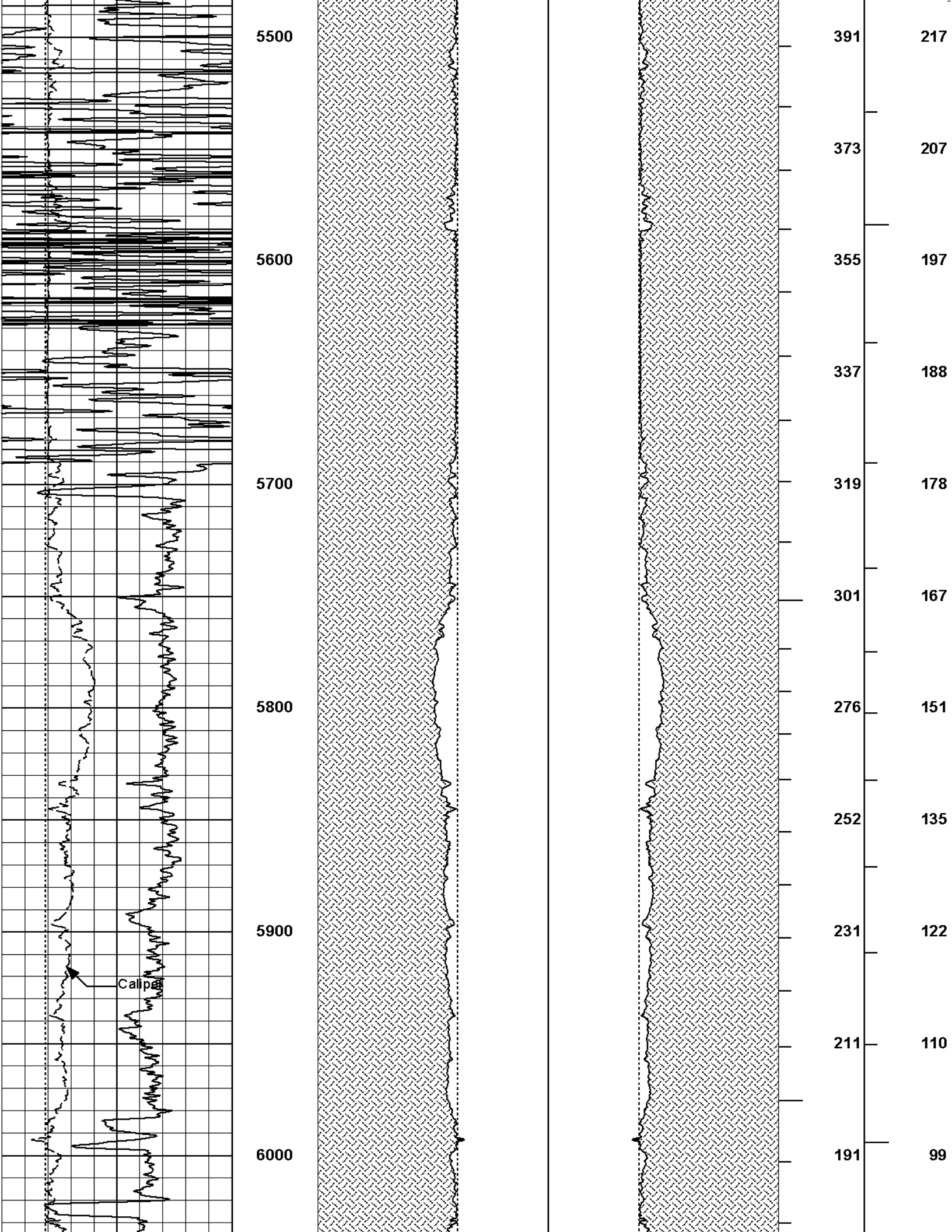
264

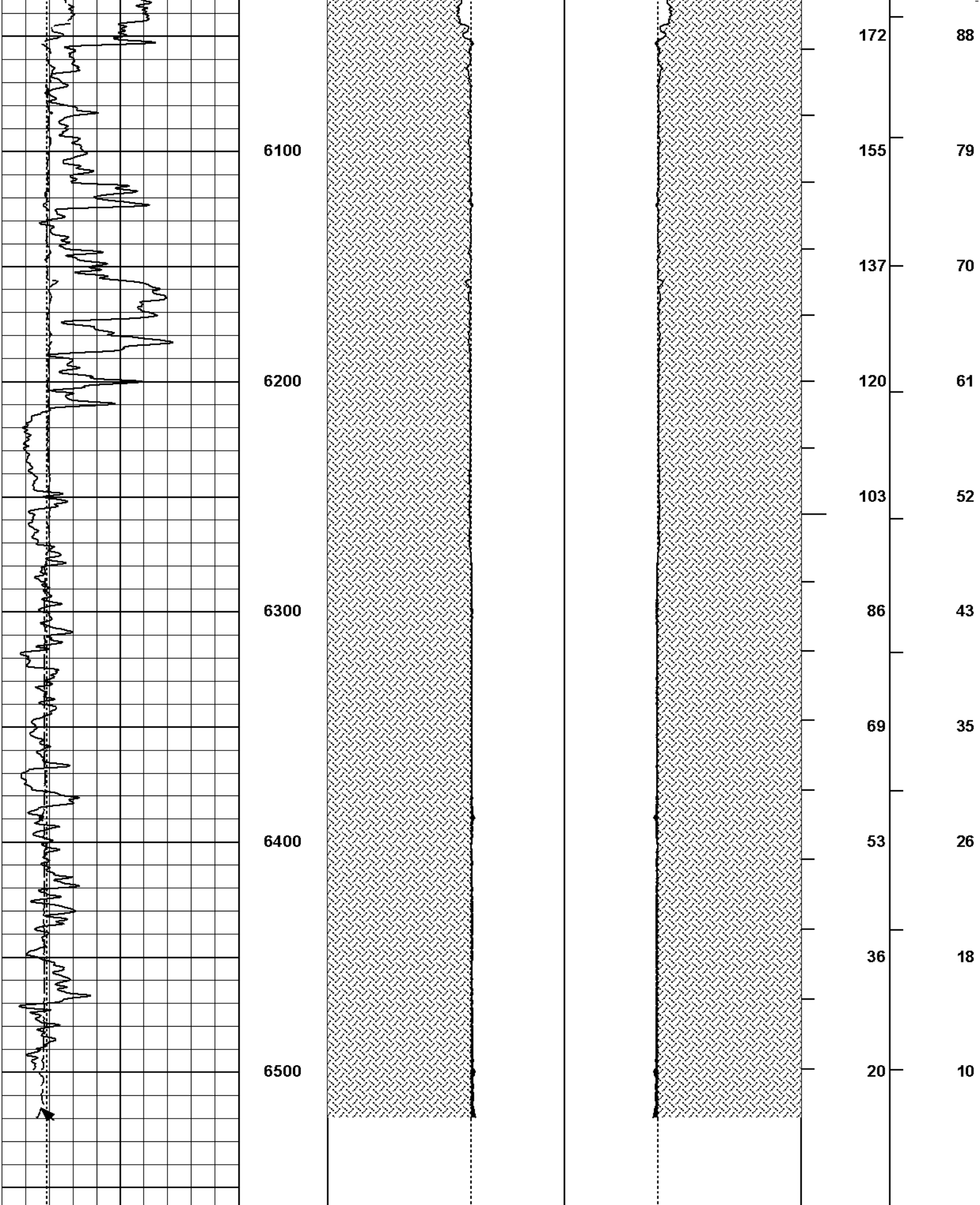
255

245

236

226





6	CALI	16	1 : 600	20	CALI	0 0	CALI	20	BHVT	AHVT
inches		ft		inches		inches				

6	BS	16
inches		
0	Gamma API	150
api		

20	Bit Size	0 0	Bit Size	20
MUDCAKE				

HALLIBURTON

Plot Time: 12-Jul-11 10:33:31
 Plot Range: 1720 ft to 6558.33 ft
 Data: GILLESPIE_21_1\Well Based\DAQ-0001-CSG_5_5\
 Plot File: \\LOCAL\GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHPORO\EOG_AHV_5_5_INCH_2_IO_LIB

ANNULAR HOLE VOLUME PLOT (5.5 INCH)

HALLIBURTON

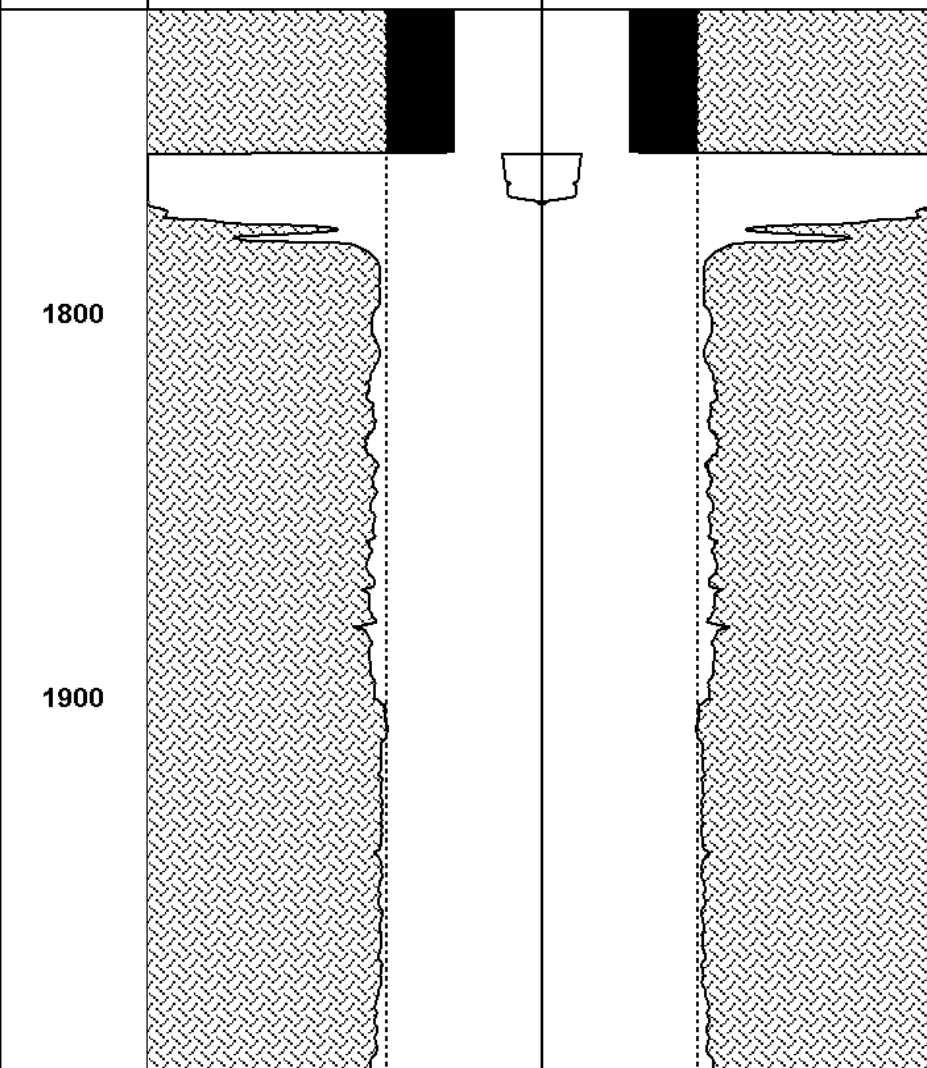
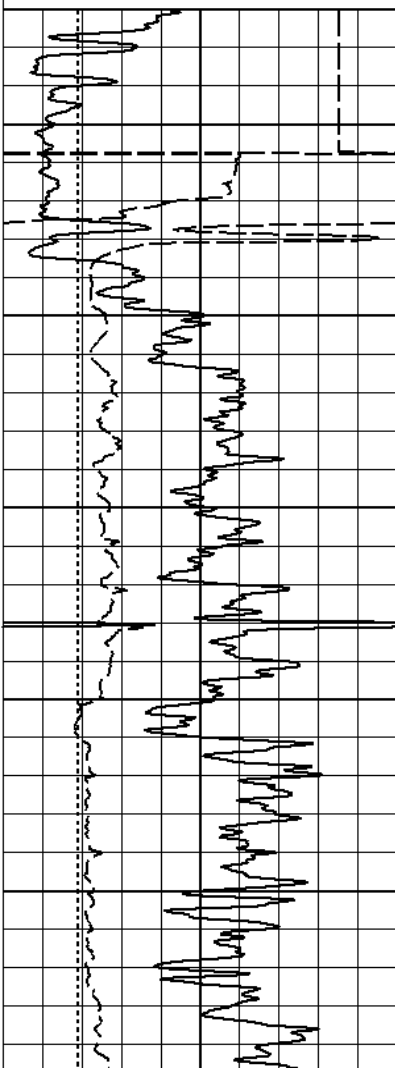
Plot Time: 12-Jul-11 10:33:31
 Plot Range: 1720 ft to 6558.33 ft
 Data: GILLESPIE_21_1\Well Based\DAQ-0001-CSG_4_5\
 Plot File: \\LOCAL\GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHPORO\EOG_AHV_4_5_INCH_2_IO_LIB

ANNULAR HOLE VOLUME PLOT (4.5 INCH)

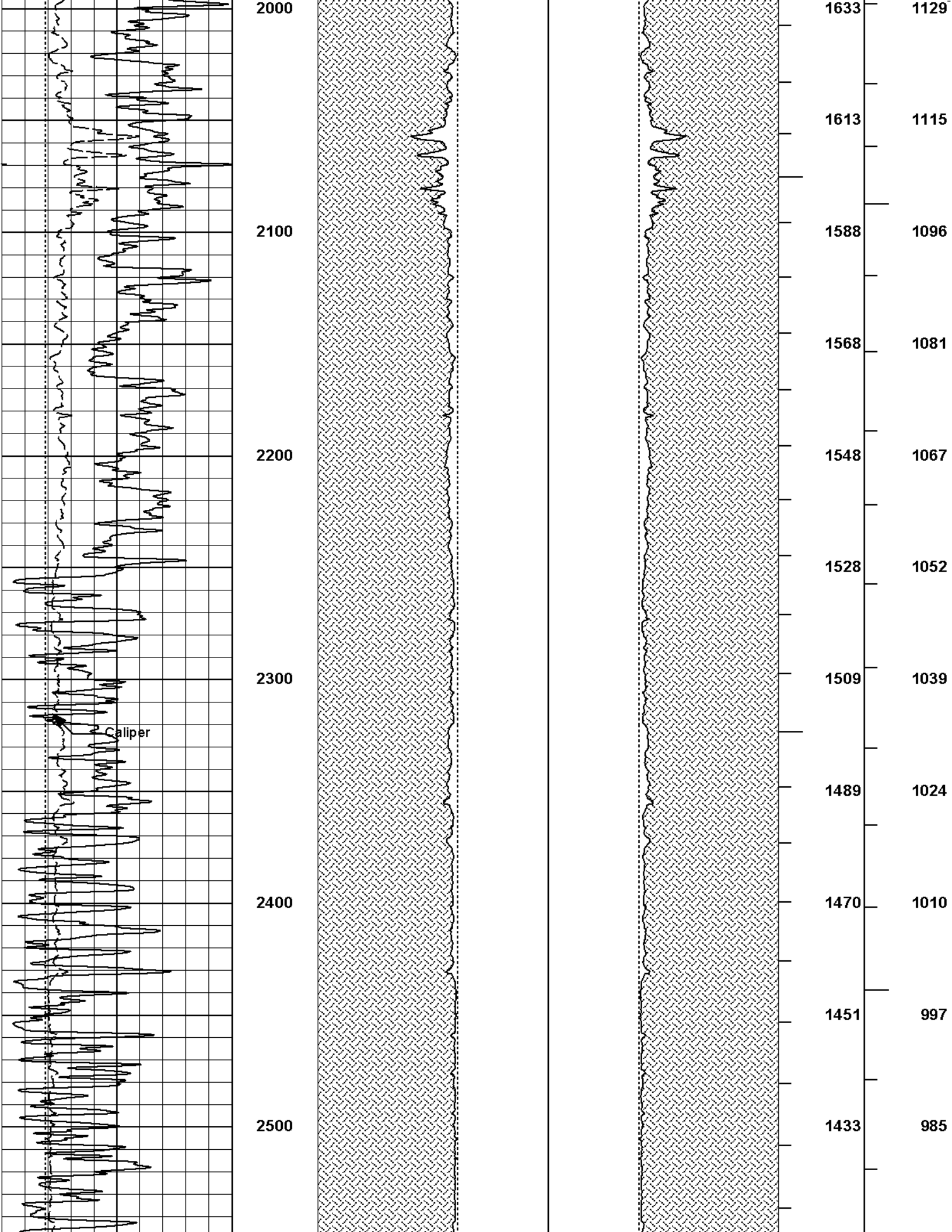
0	Gamma API	150
api		
6	BS	16
inches		
6	CALI	16
inches		

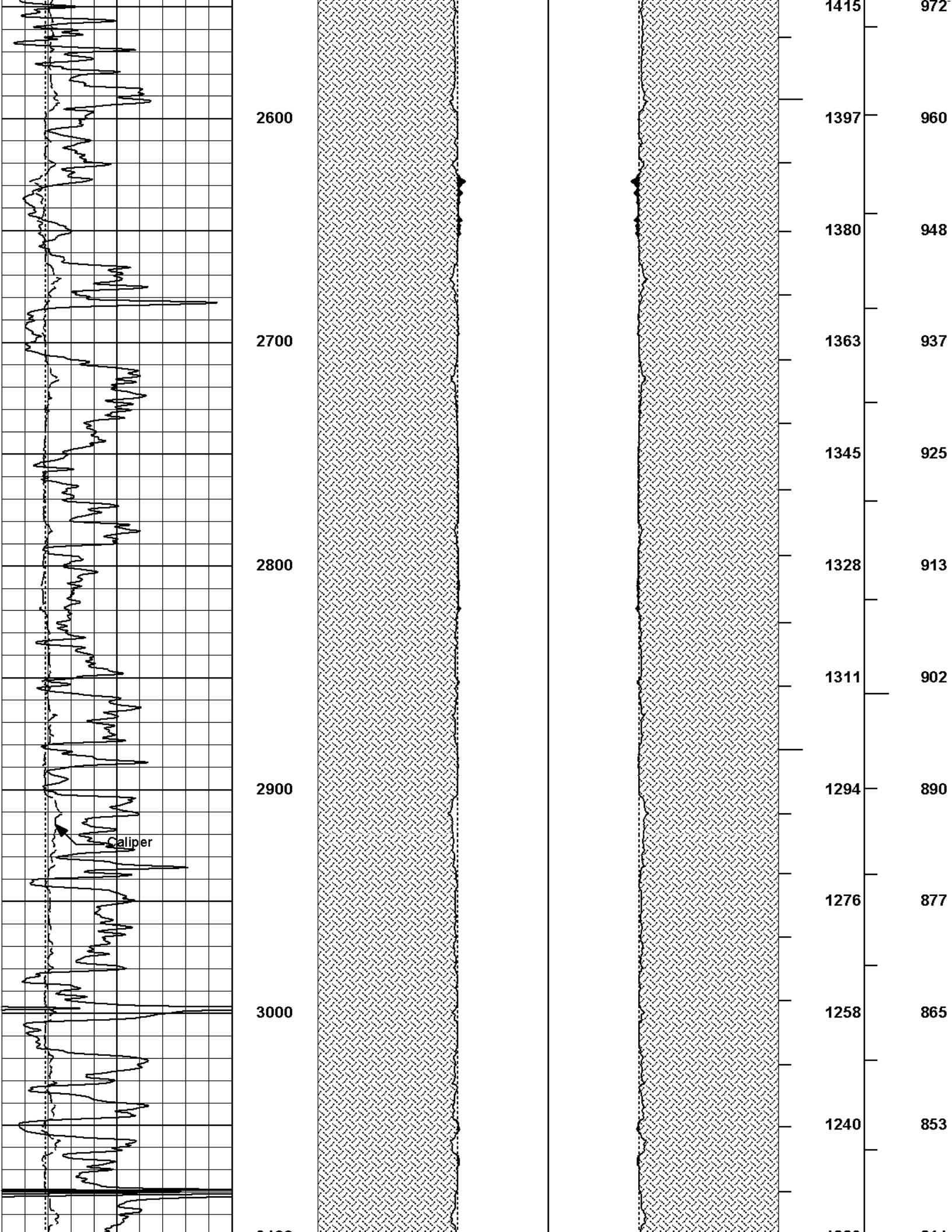
MUDCAKE		MUDCAKE		
20	Bit Size	0 0	Bit Size	20
1 : 600 ft				
20	CALI	0 0	CALI	20
inches		inches		

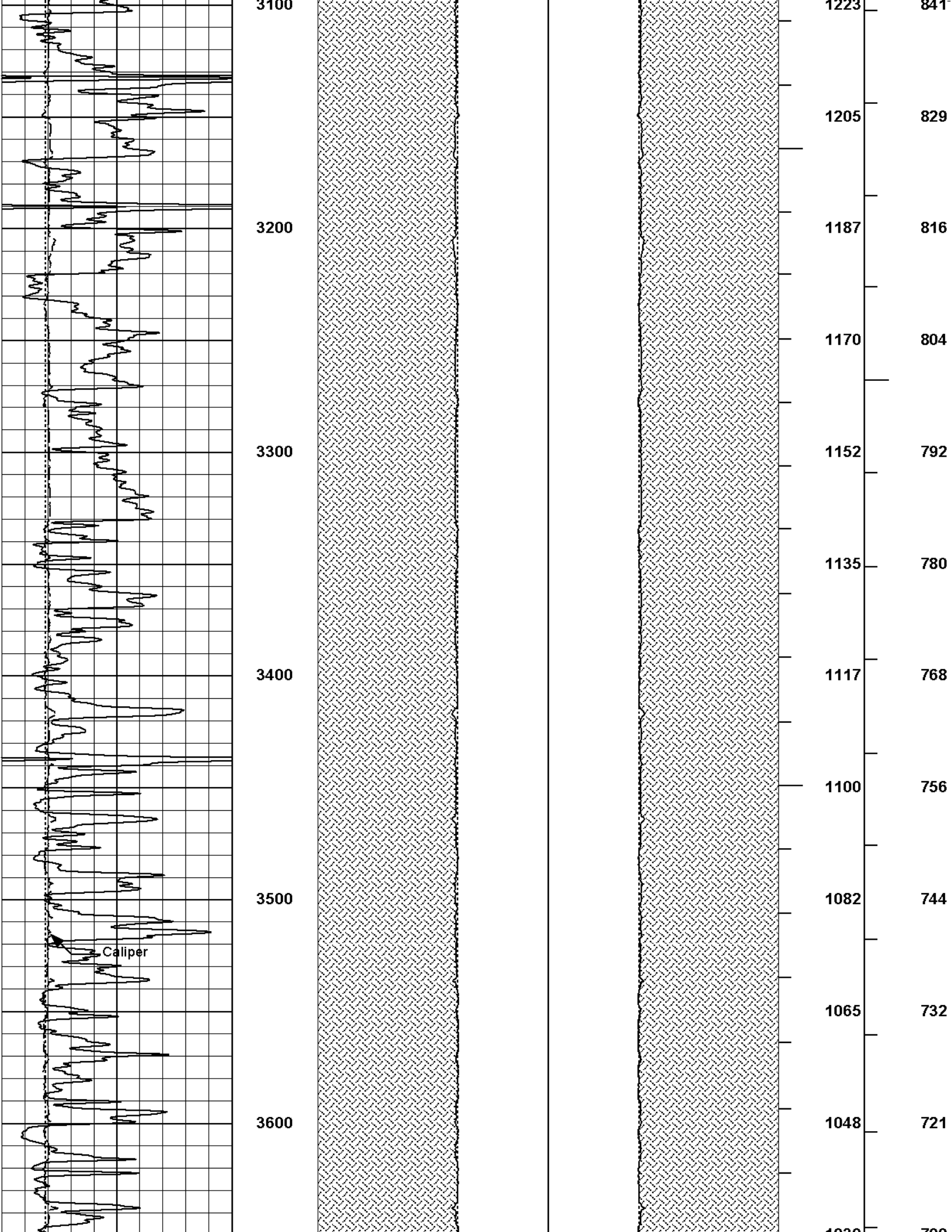
BHVT	AHVT
------	------

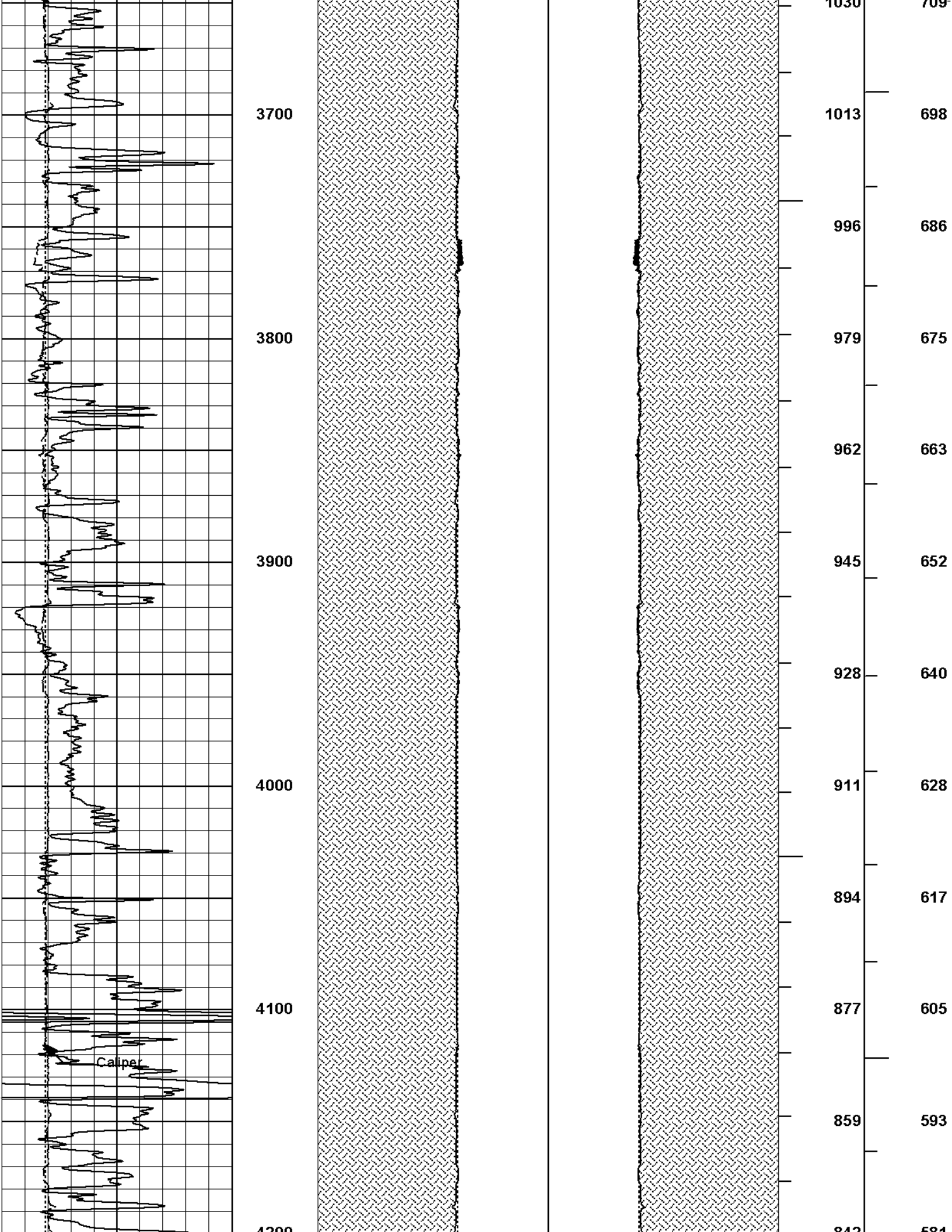


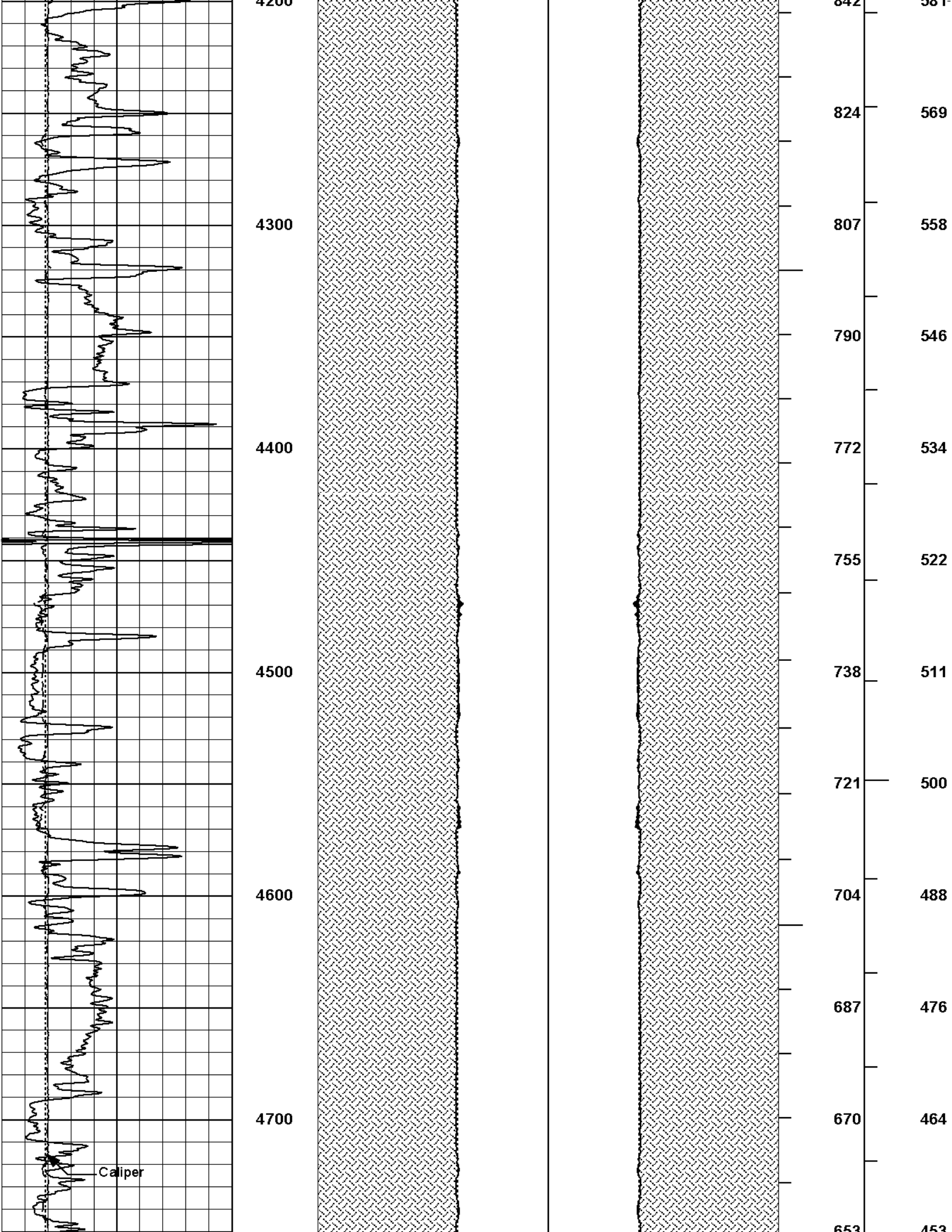
1767	1236
1710	1185
1690	1170
1670	1155
1652	1143

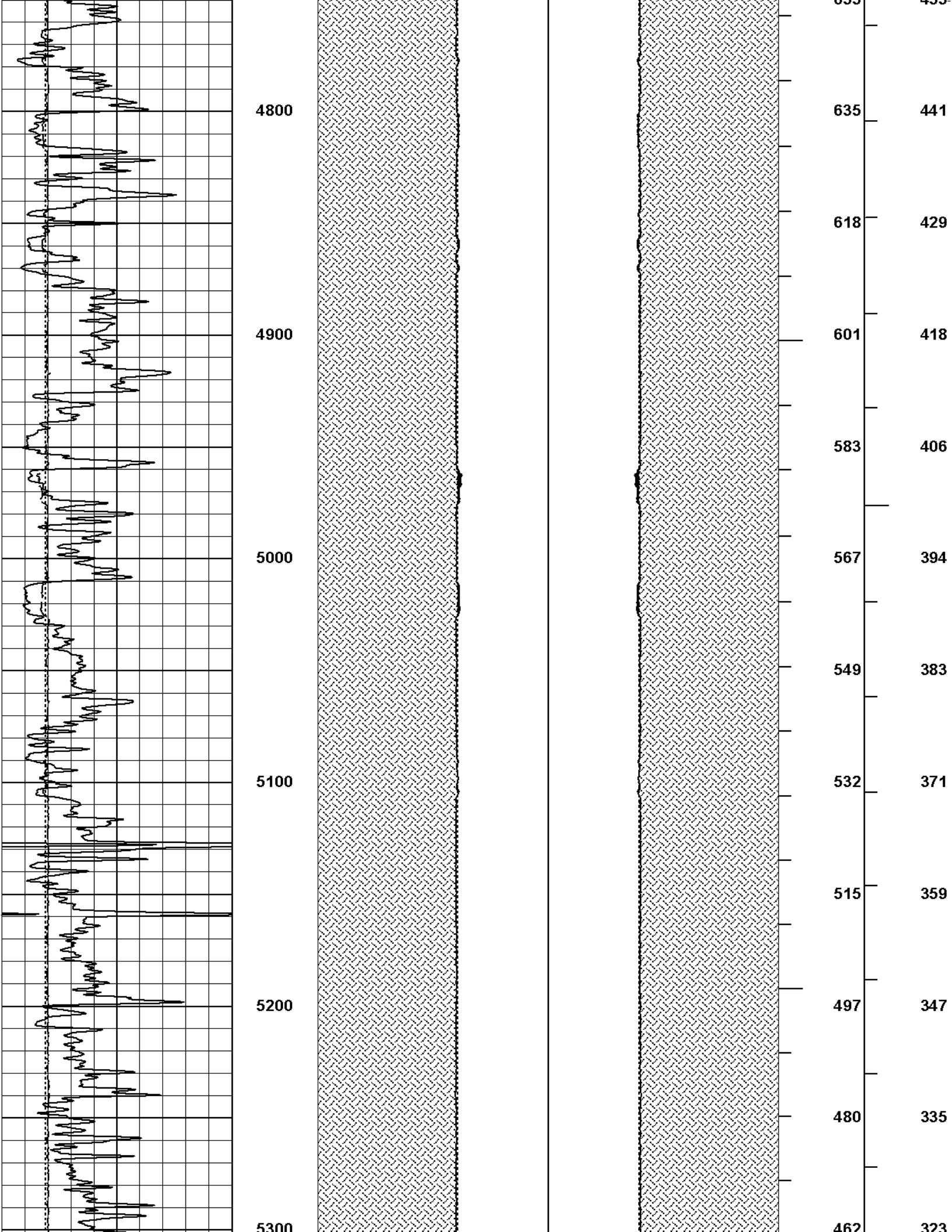


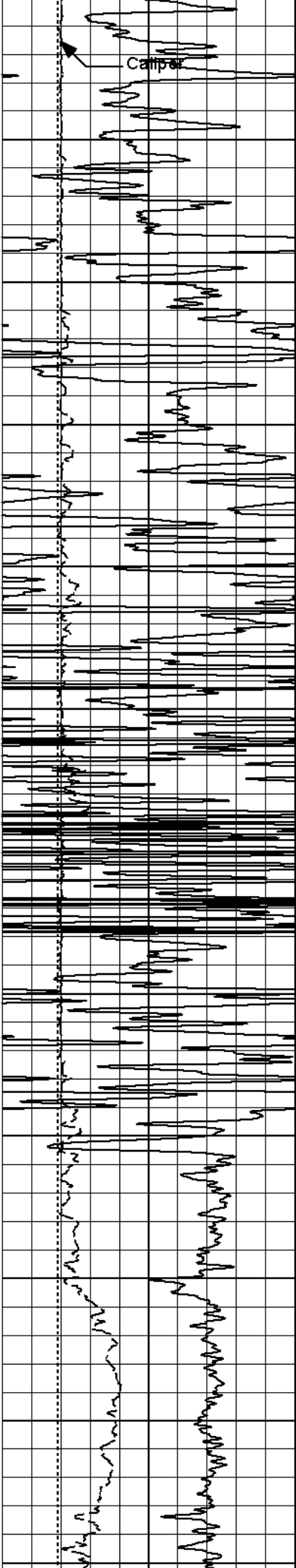












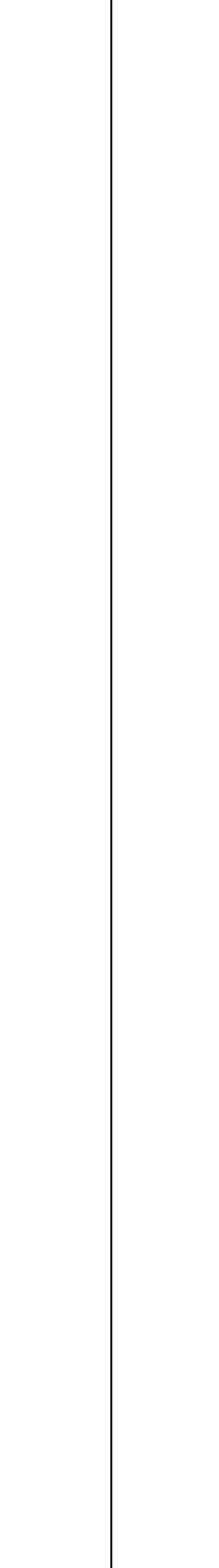
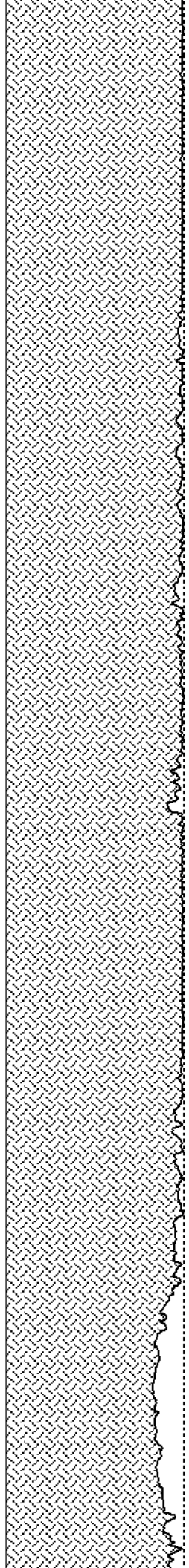
5400

5500

5600

5700

5800



445

427

409

391

373

355

337

319

301

276

252

311

299

287

275

262

249

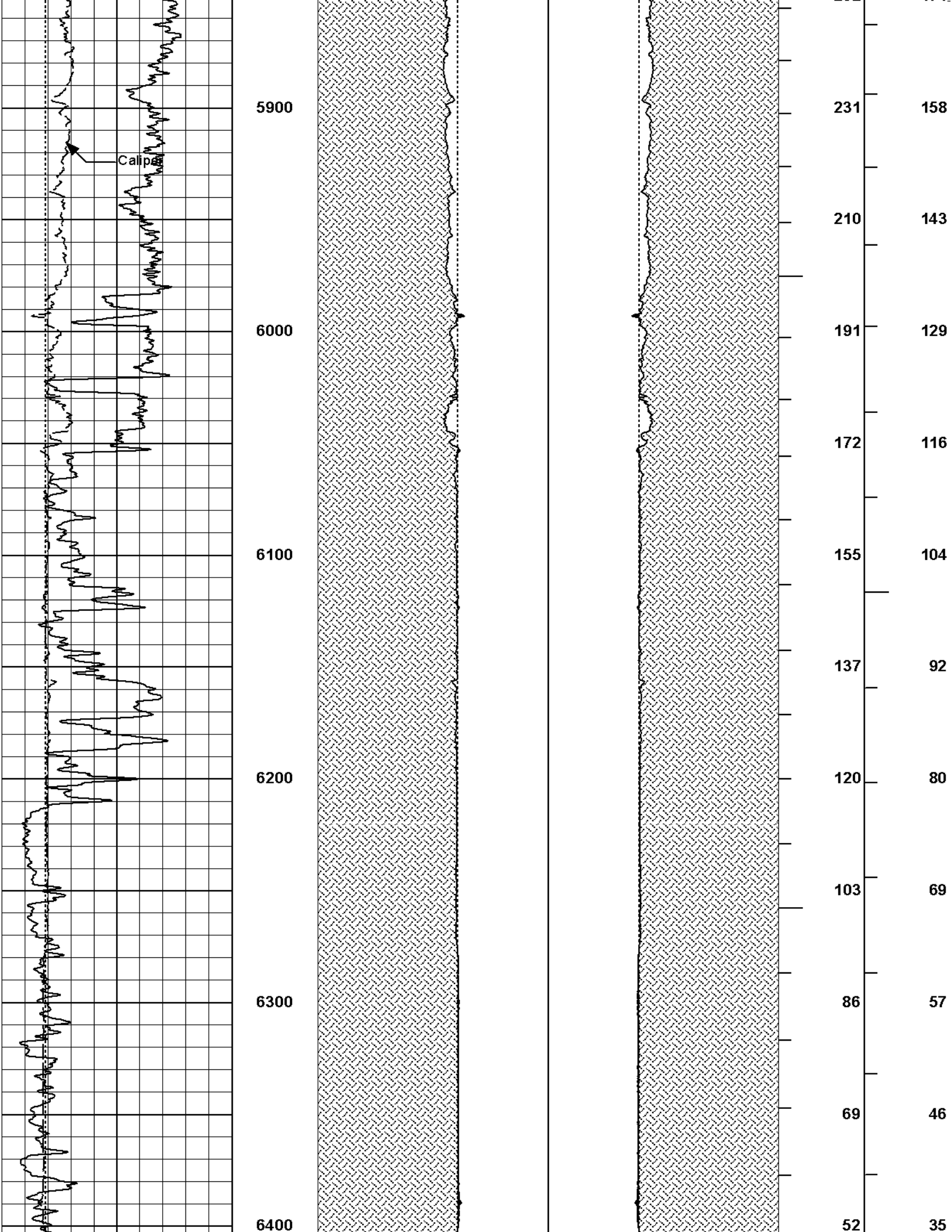
237

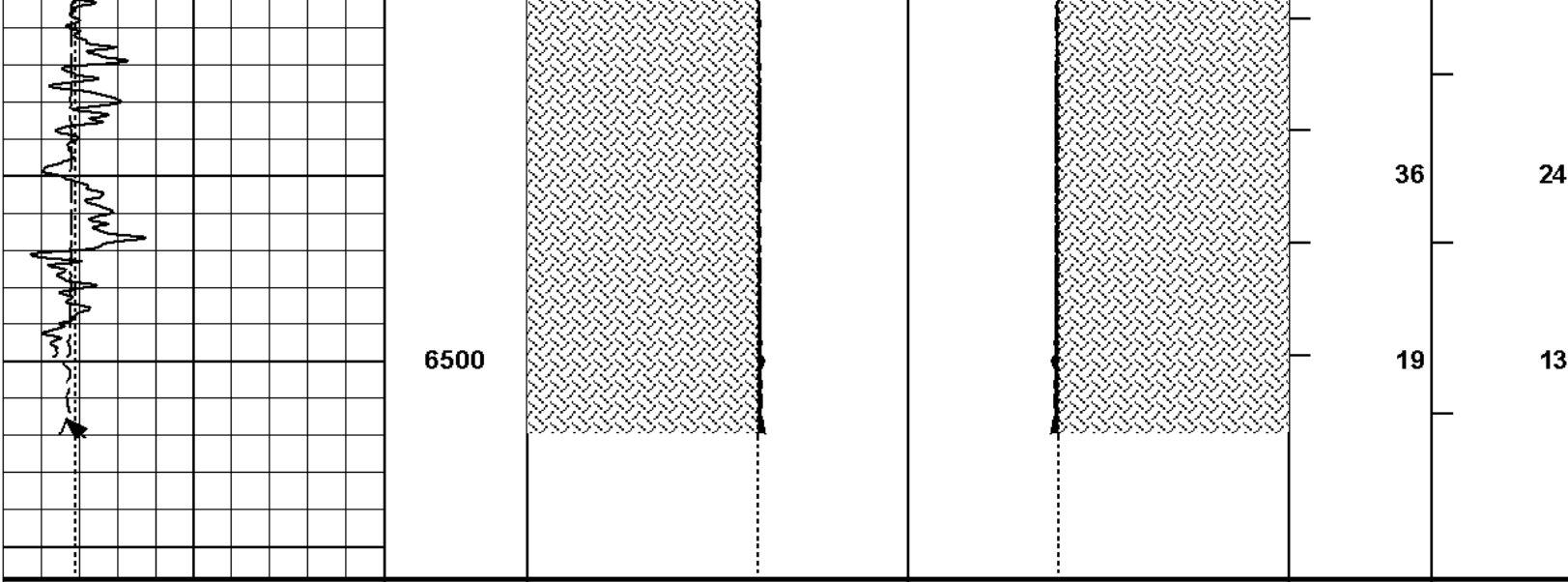
225

211

192

174





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

MUDCAKE **MUDCAKE**

HALLIBURTON

Plot Time: 12-Jul-11 10:33:34
 Plot Range: 1720 ft to 6558.33 ft
 Data: GILLESPIE_21_1\Well Based\DAQ-0001-CSG_4_5\
 Plot File: \\LOCAL\GILLESPIE_21_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHPORO\EOG_AHV_4_5_INCH_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT (4.5 INCH)

COMPANY	EOG RESOURCES		
WELL	GILLESPIE 21 #1		
FIELD	WILLIS		
COUNTY	STEVENS	STATE	KANSAS

HALLIBURTON	SPECTRAL DENSITY DUAL SPACED NEUTRON LOG
--------------------	---