

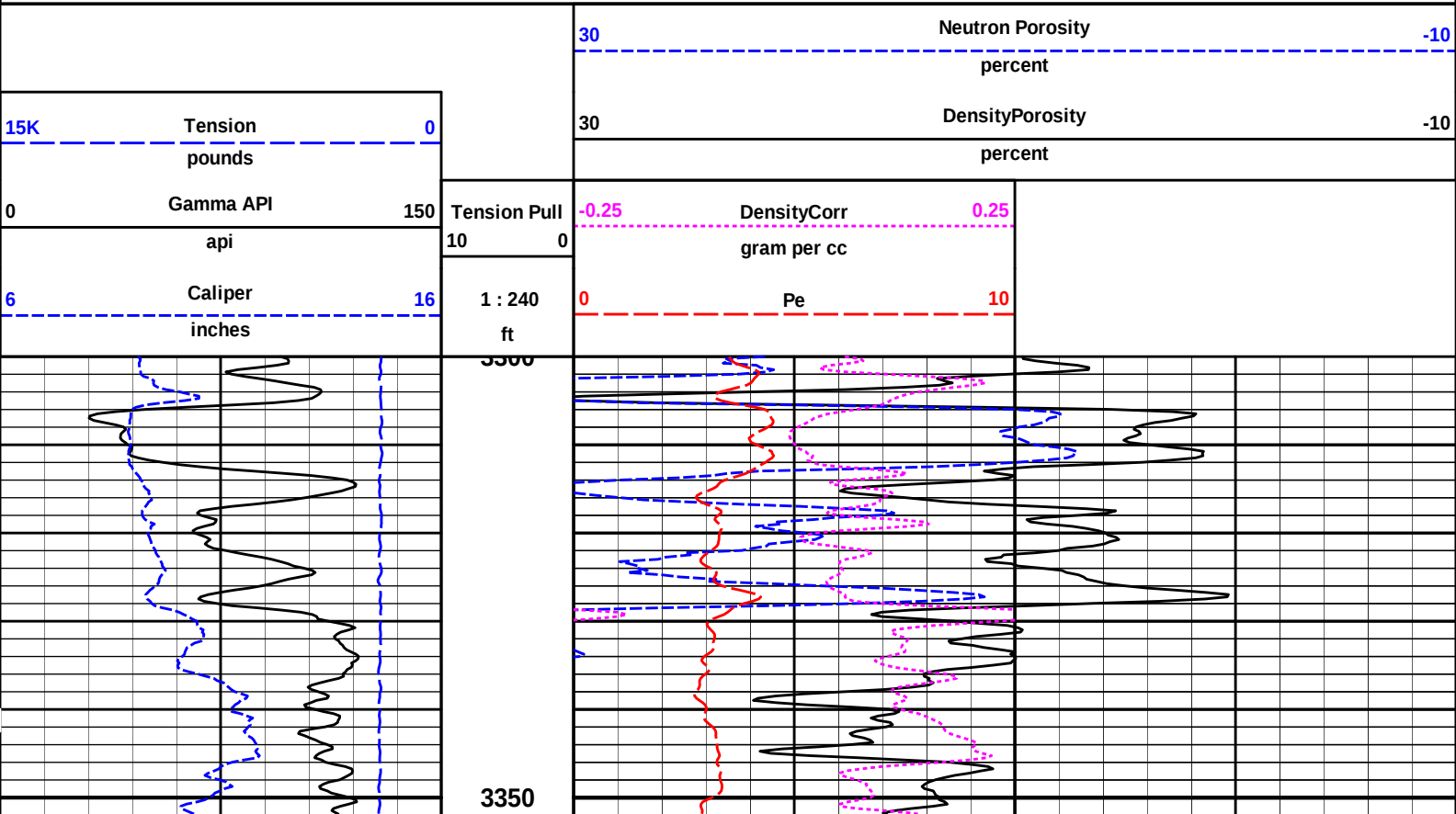
HALLIBURTON

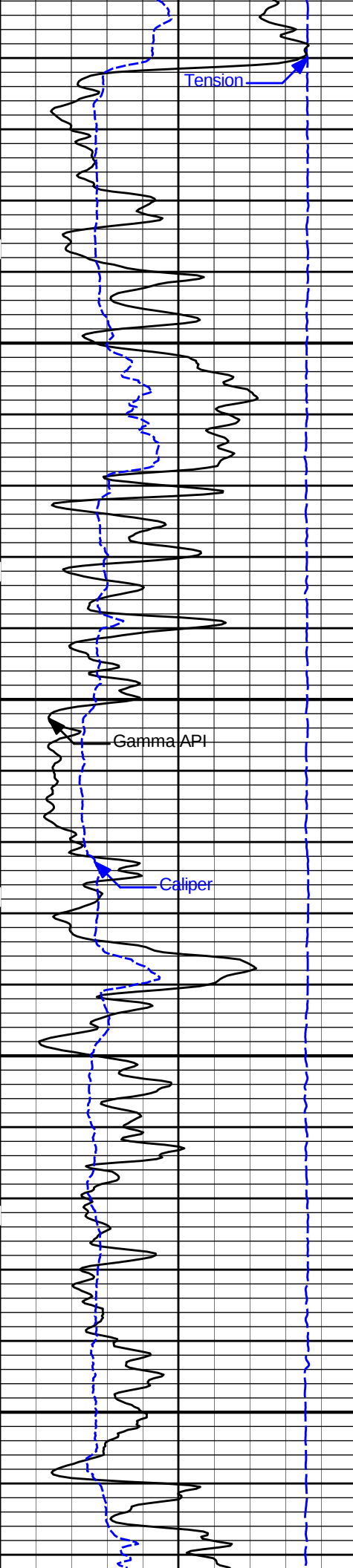
DUAL SPACED NEUTRON SPECTRAL DENSITY LOG

COMPANY		HERMAN L LOEB	
WELL		CANTON C #3-20	
FIELD		GLICK	
COUNTY		KIOWA	
STATE		KANSAS	
Permanent Datum		GL	Elev. 2038.0 ft
Log measured from		KB	Elev. 2049.0 ft
Drilling measured from		KB	D.F. 2049.0 ft
			G.L. 2038.0 ft
Date		08-May-12	
Run No.		ONE	
Depth - Driller		5180.00 ft	
Depth - Logger		5177.0 ft	
Bottom - Logged Interval		5175 ft	
Top - Logged Interval		565 ft	
Casing - Driller		8.625 in @ 568.0 ft	@
Casing - Logger		565.0 ft	@
Bit Size		7.785 in	@
Type Fluid in Hole		WATER BASED MUD	
Density	Viscosity	9.3 ppq	56.00 s/qt
PH	Fluid Loss	9.00 pH	9.0 cpm
Source of Sample		FLOWLINE	
Rm @ Meas. Temperature		0.300 ohmm @ 75.00 degF	@
Rmf @ Meas. Temperature		0.23 ohmm @ 75.00 degF	@
Rmc @ Meas. Temperature		0.400 ohmm @ 75.00 degF	@
Source Rmf	Rmc	CALC	CALC
Rm @ BHT		0.21 ohmm @ 111.0 degF	@
Time Since Circulation		8.0 hr	
Time on Bottom		08-May-12 19:53	
Max. Rec. Temperature		111.0 degF @ 5177.0 ft	@
Equipment	Location	592	PV OK
Recorded By		CORY HANSON	
Witnessed By		J. CHRISTENSEN	

Fold here

Service Ticket No.: 9499188				API Serial No.: 15-097-21724				PGM Version: WL INSITE R3.4.4 (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.	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.	11013114		Serial No.			Serial No.	772		Serial No.	10993115				
Model No.	GTET		Model No.			Model No.	SDLT-I		Model No.	DSNT-I				
Diameter	3.625"		No. of Cent.			Diameter	4.5"		Diameter	3.625"				
Detector Model No.	GTET		Spacing			Log Type	GAM-GAM		Log Type	NEU-NEU				
Type	SCINT					Source Type	CS137		Source Type	AM241BE				
Length	8"		LSA [Y/N]			Serial No.	20791B		Serial No.	DSN382				
Distance to Source	10'		FWDA [Y/N]			Strength	1.5 CI		Strength	15 CI				
LOGGING DATA														
GENERAL			GAMMA			ACOUSTIC			DENSITY			NEUTRON		



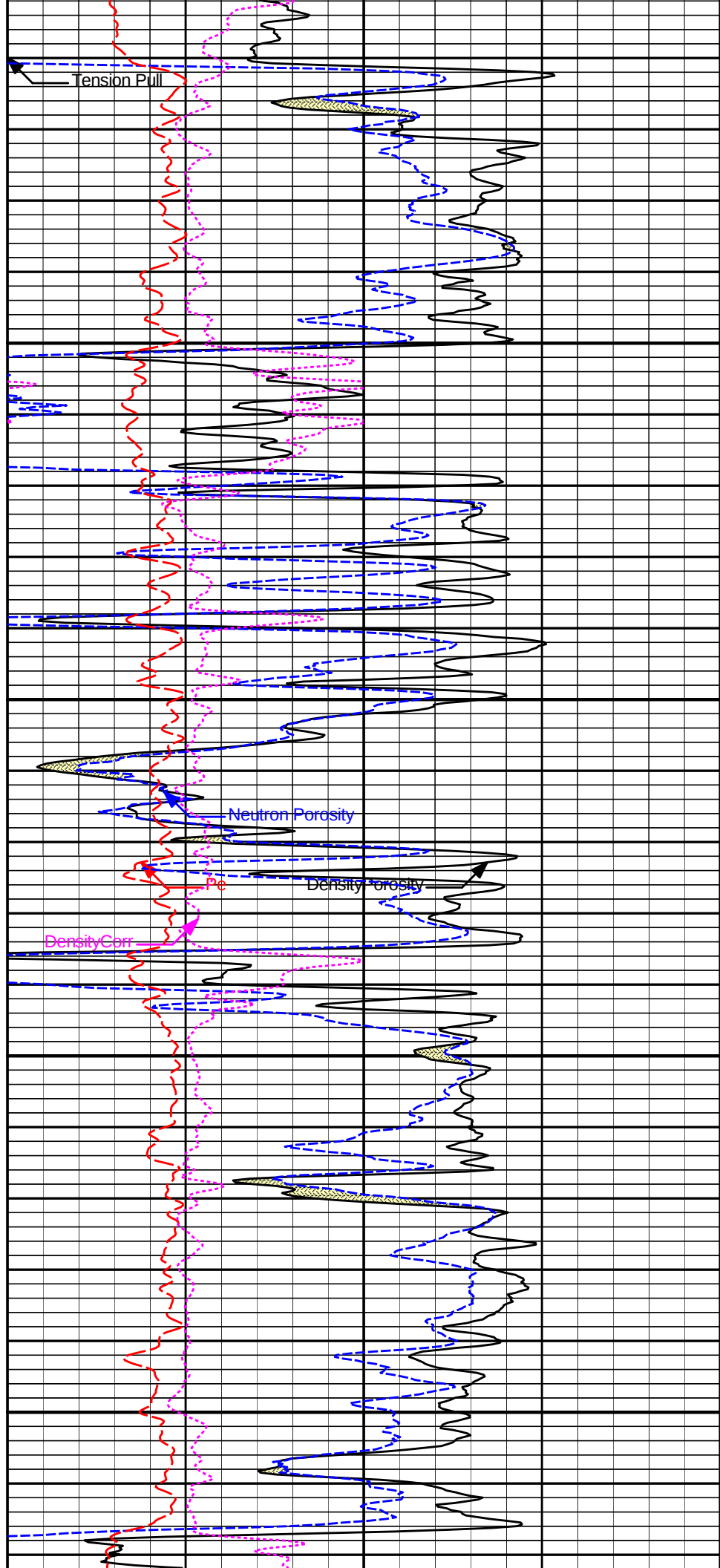


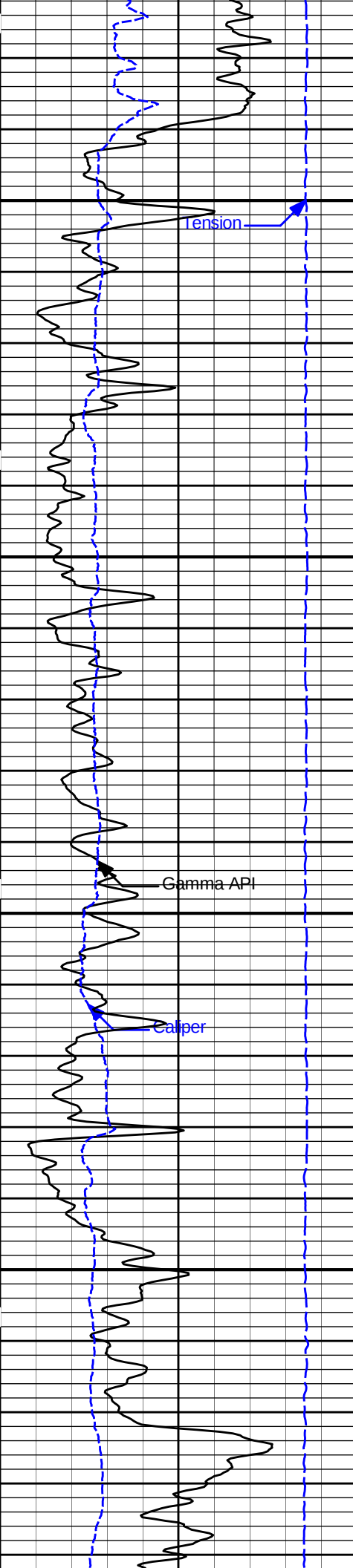
3400

3450

3500

3550



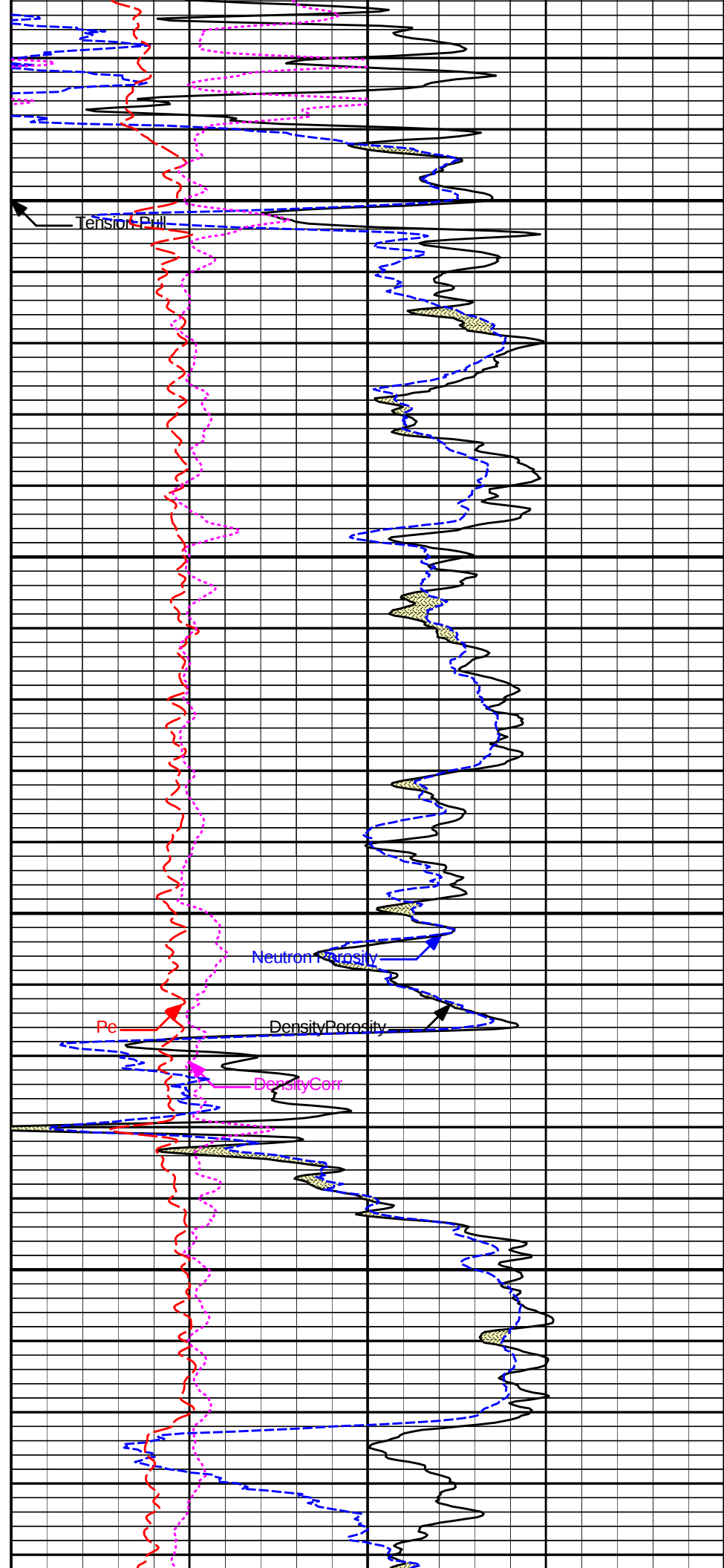


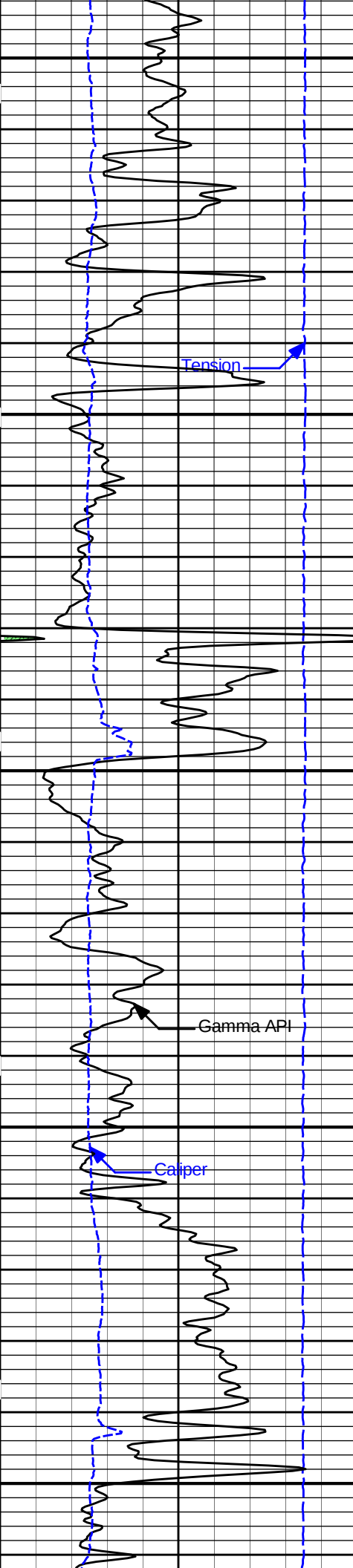
3600

3650

3700

3750





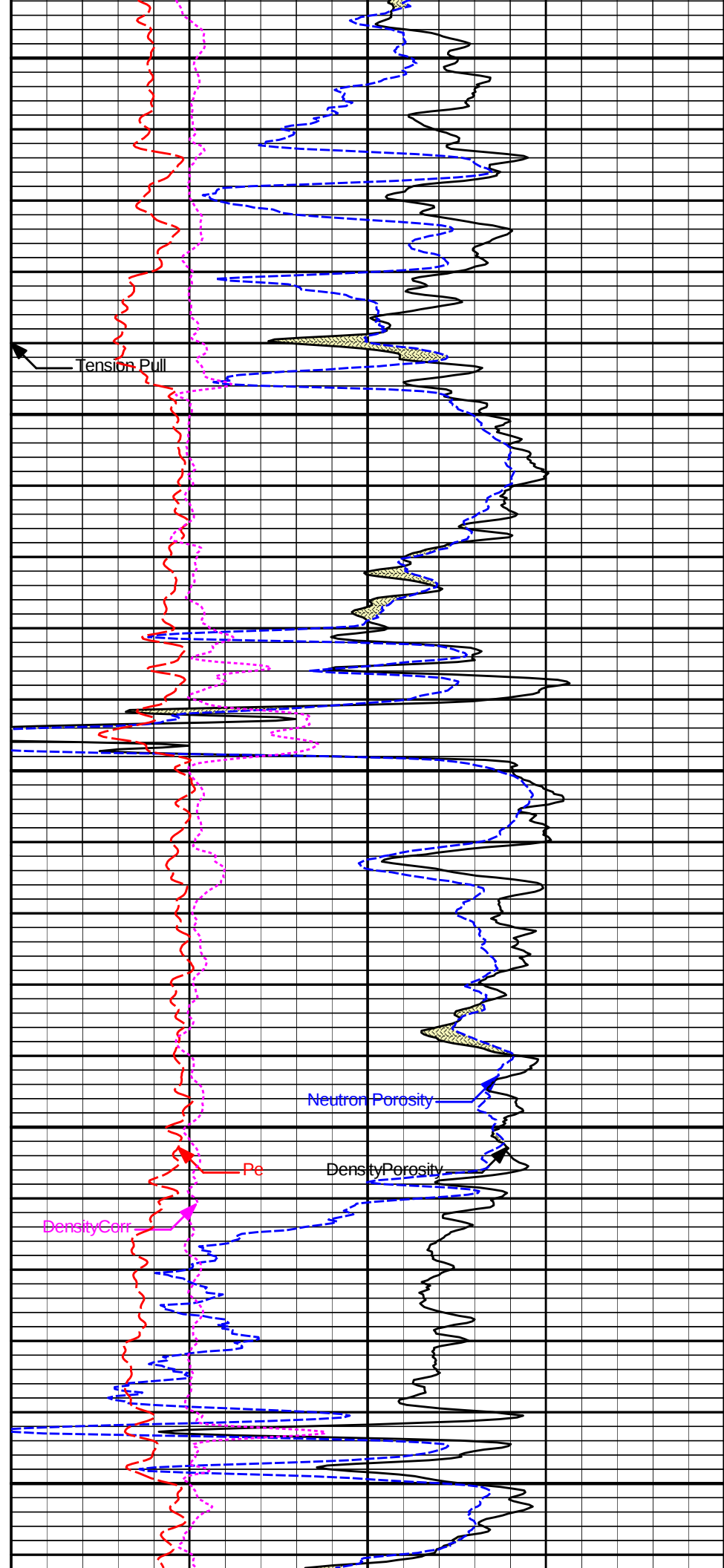
3800

3850

3900

3950

4000



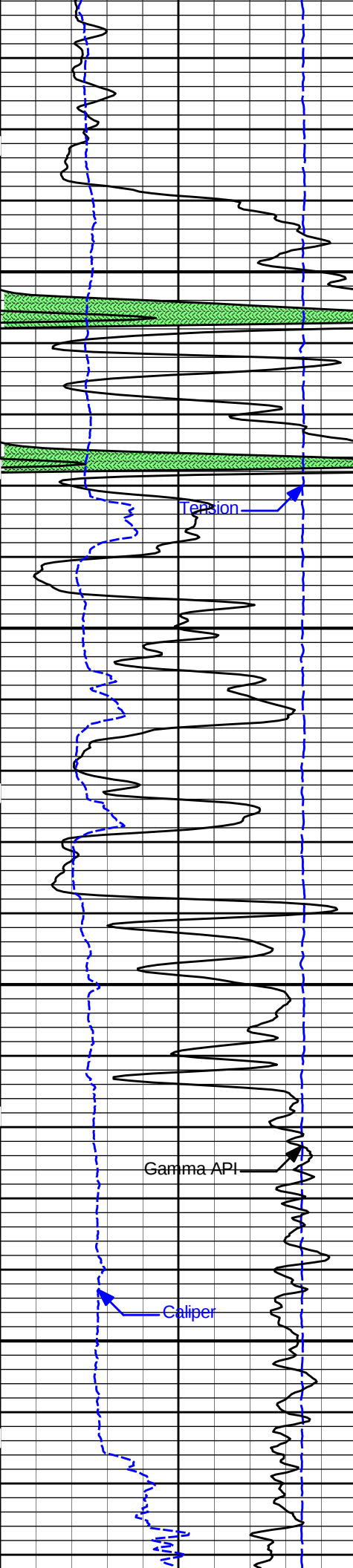
Tension Pull

Neutron Porosity

Density Porosity

Pe

Density Corr

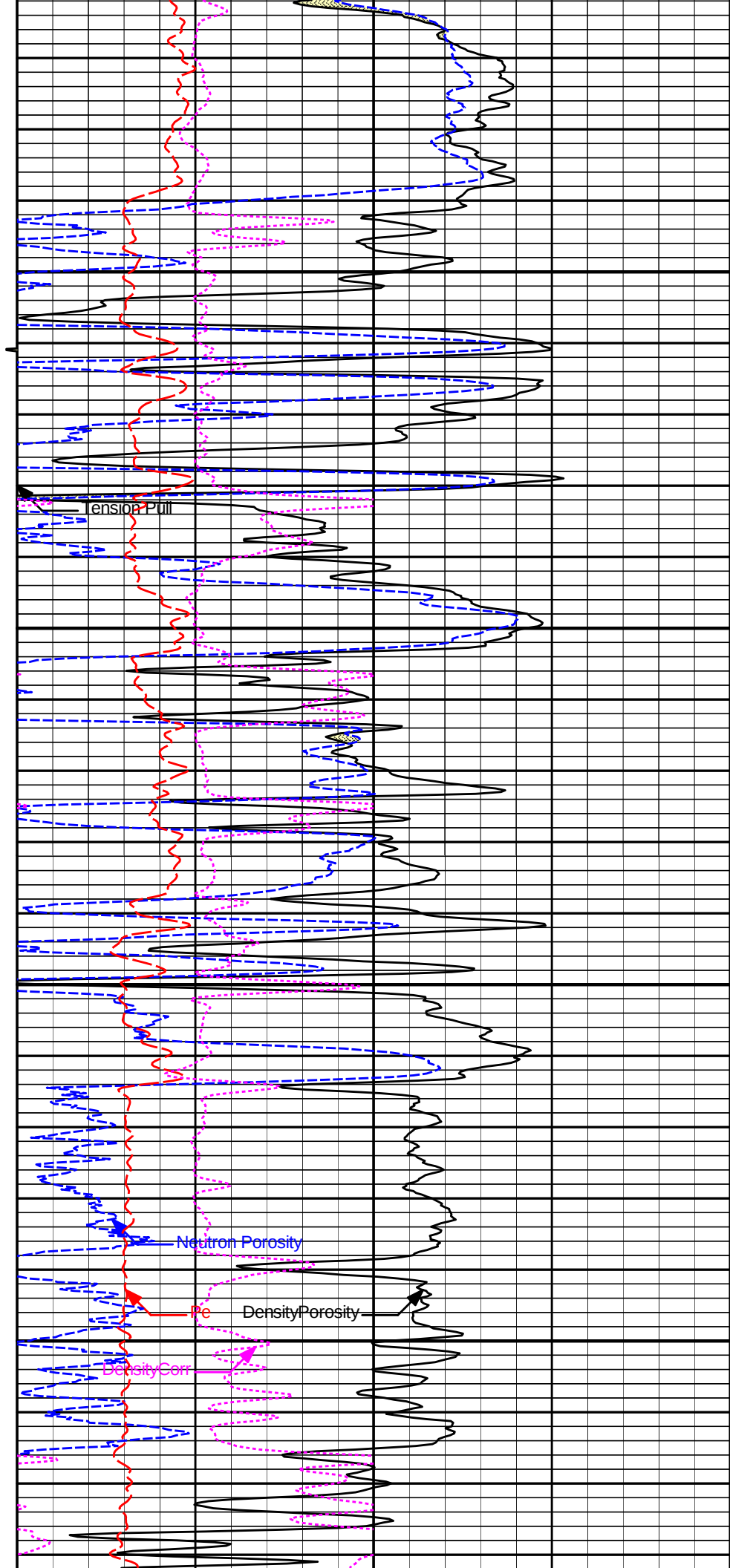


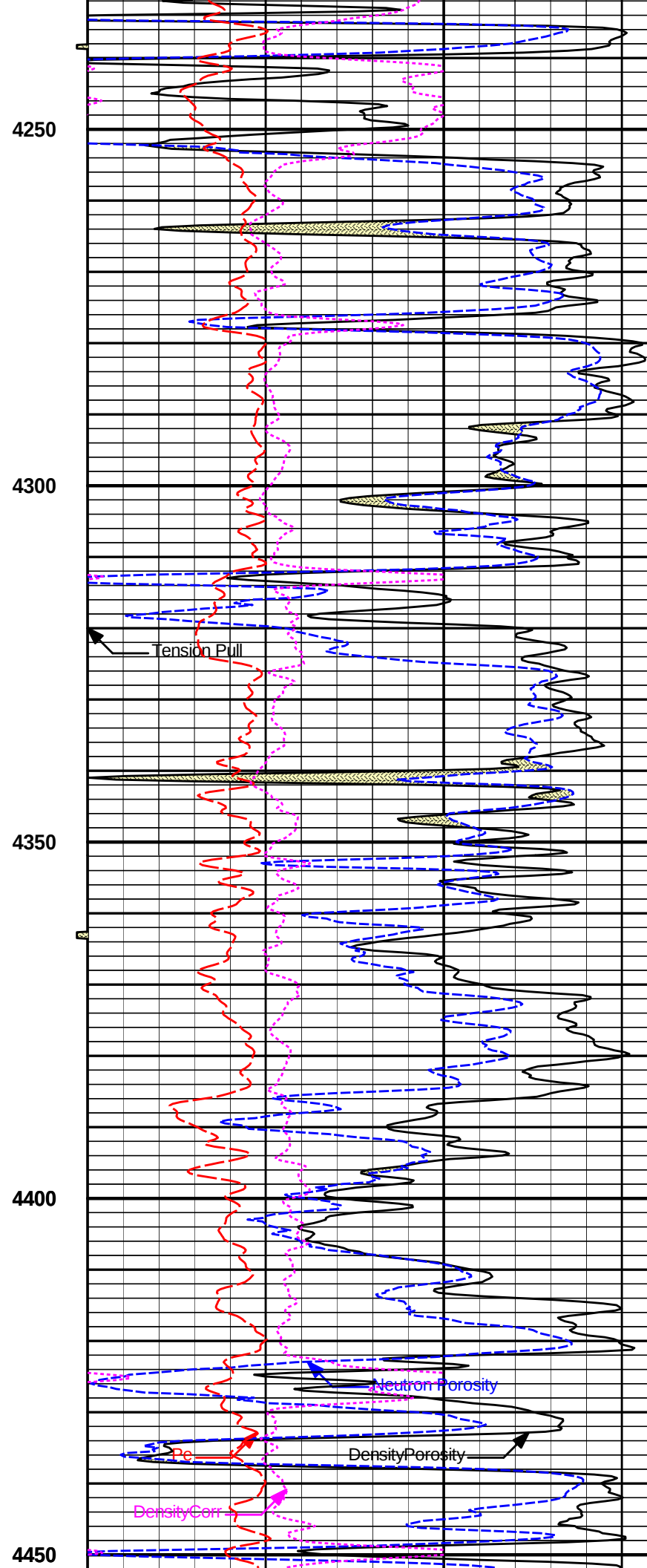
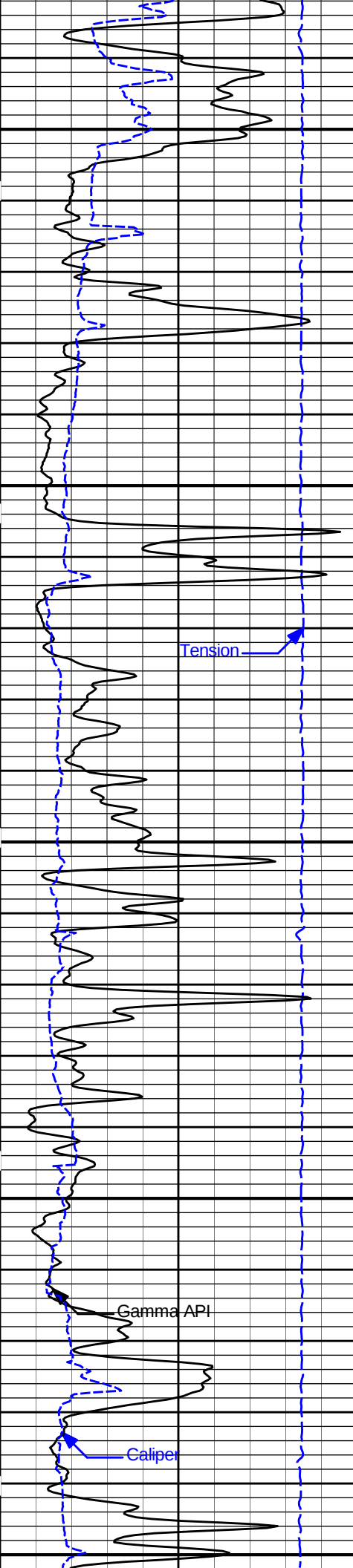
4050

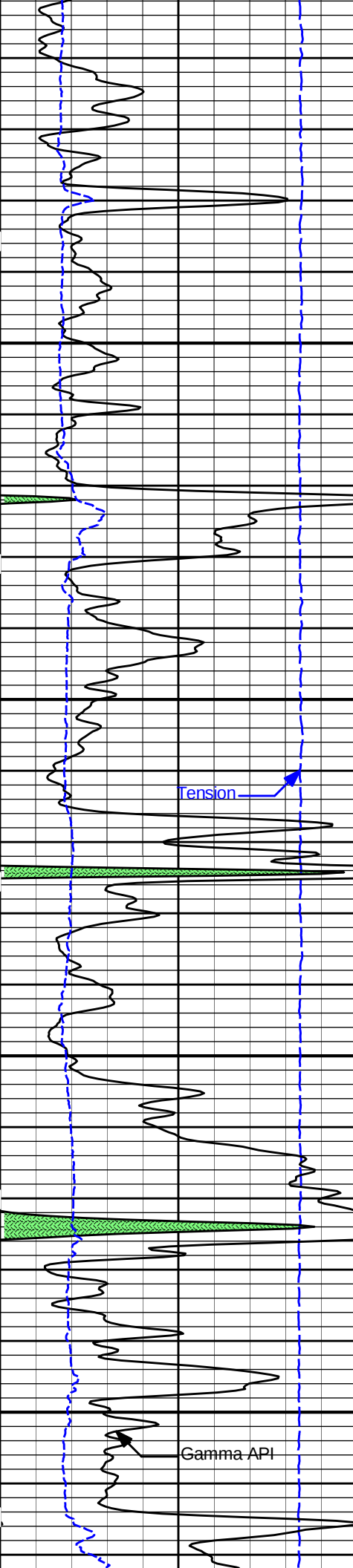
4100

4150

4200







4500

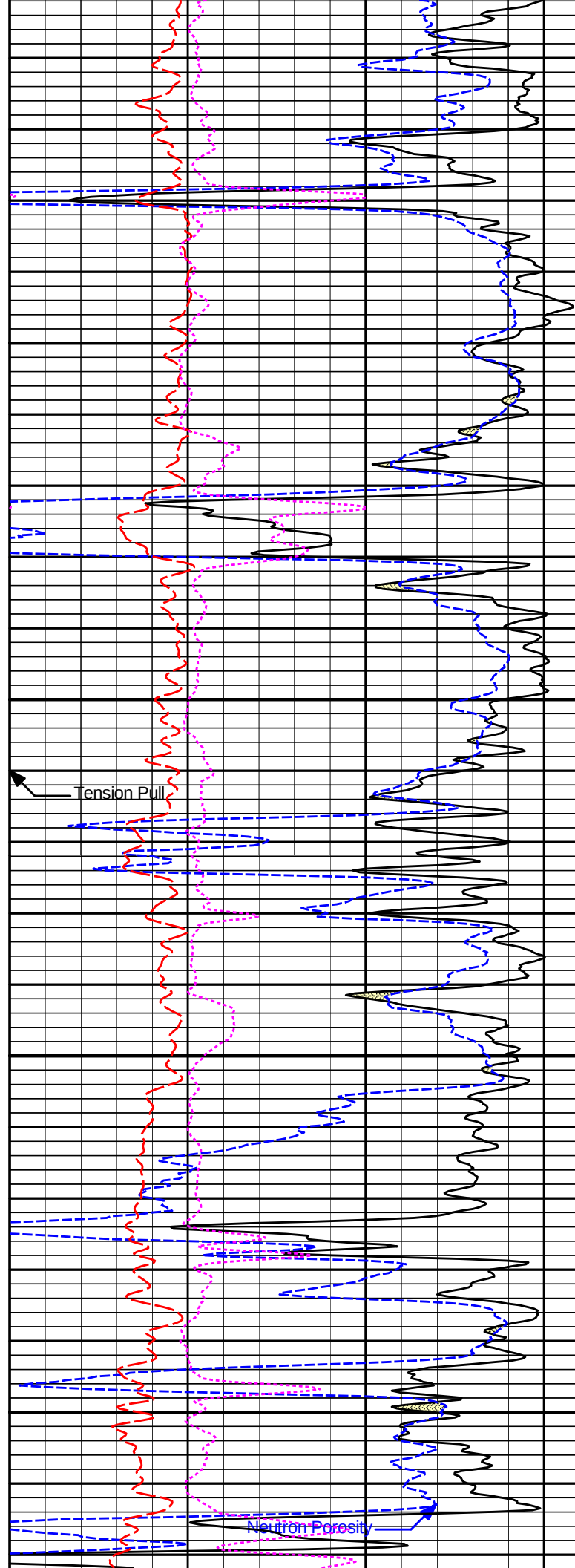
4550

4600

4650

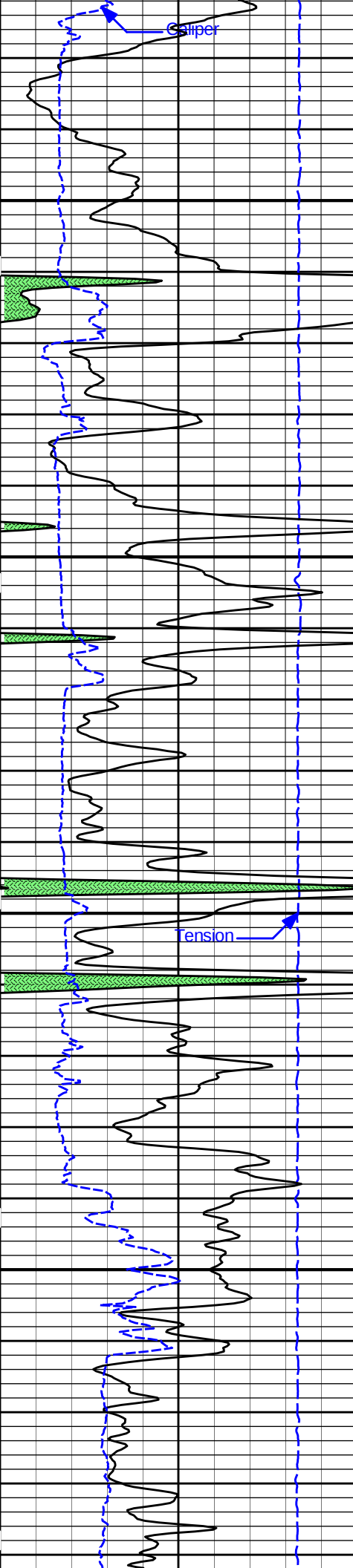
Tension

Gamma API



Tension Pull

Neutron Porosity

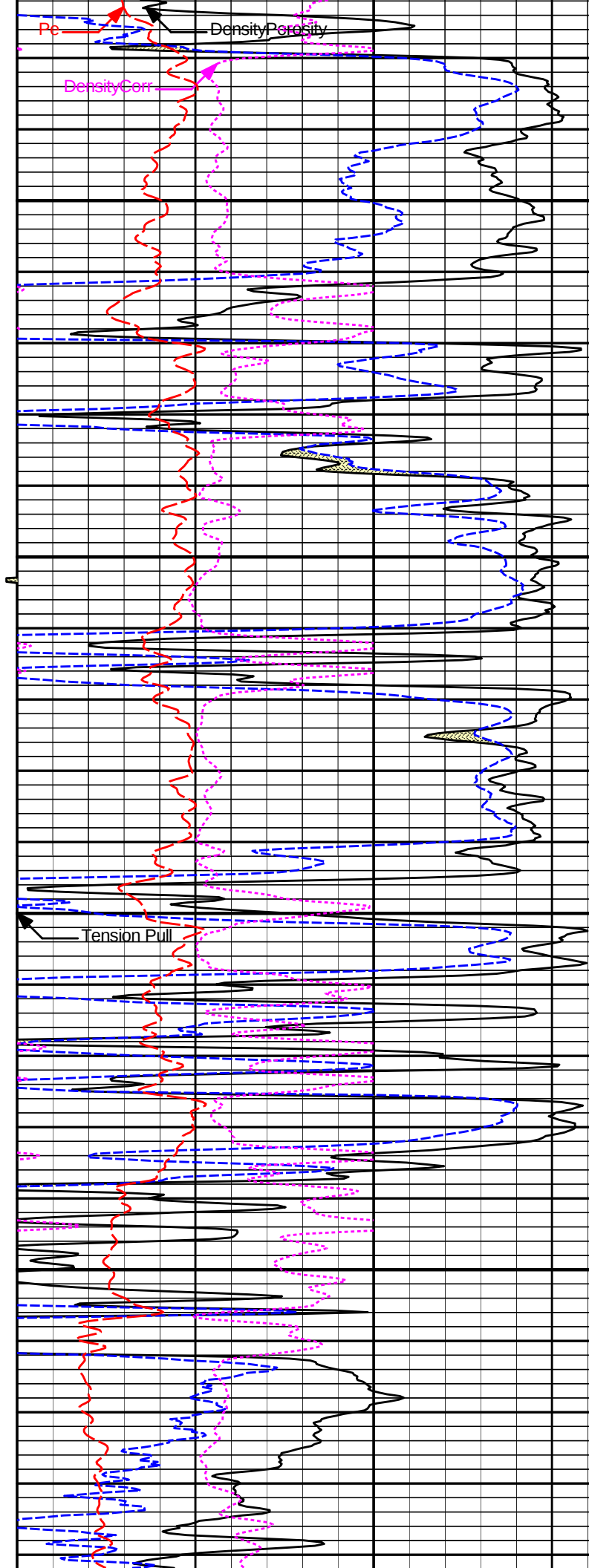


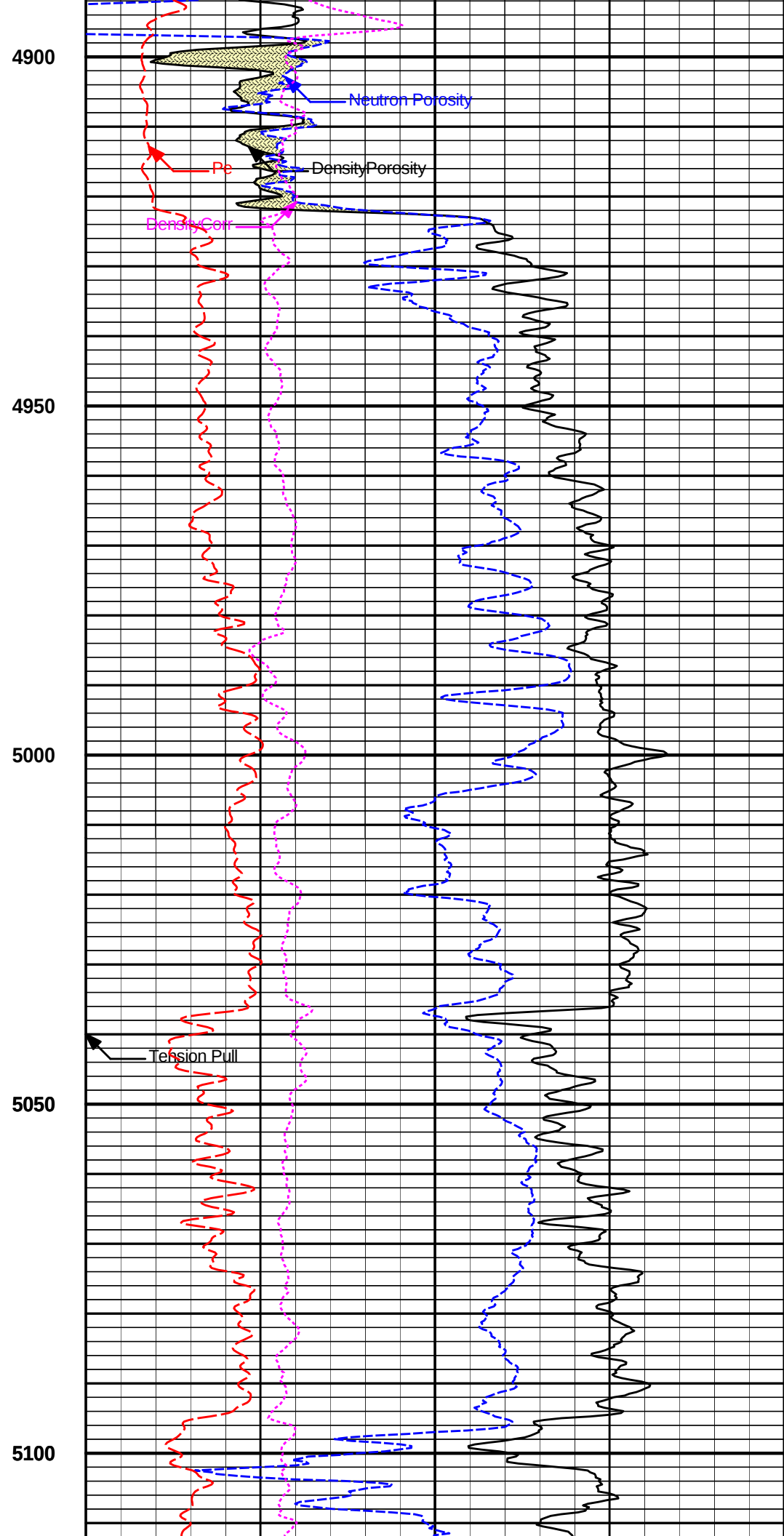
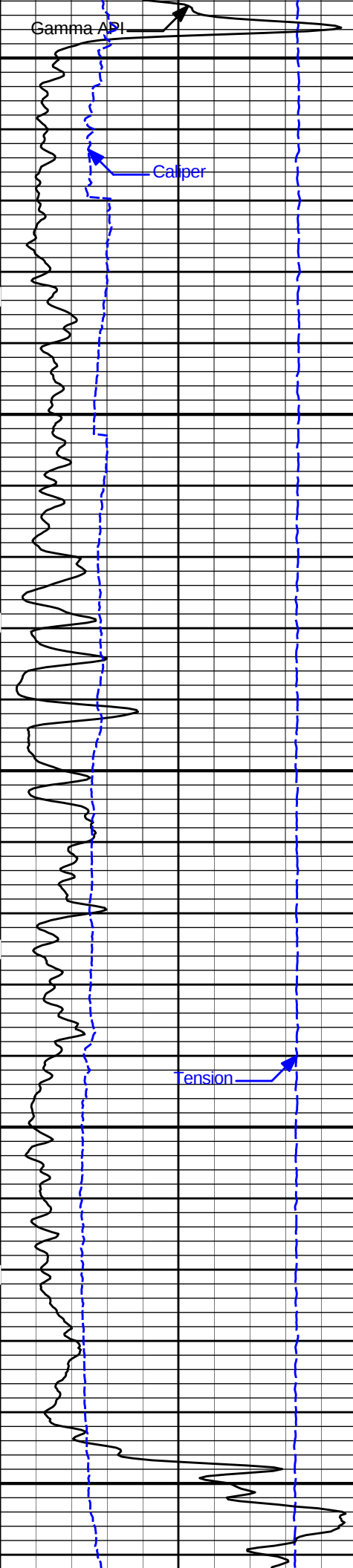
4700

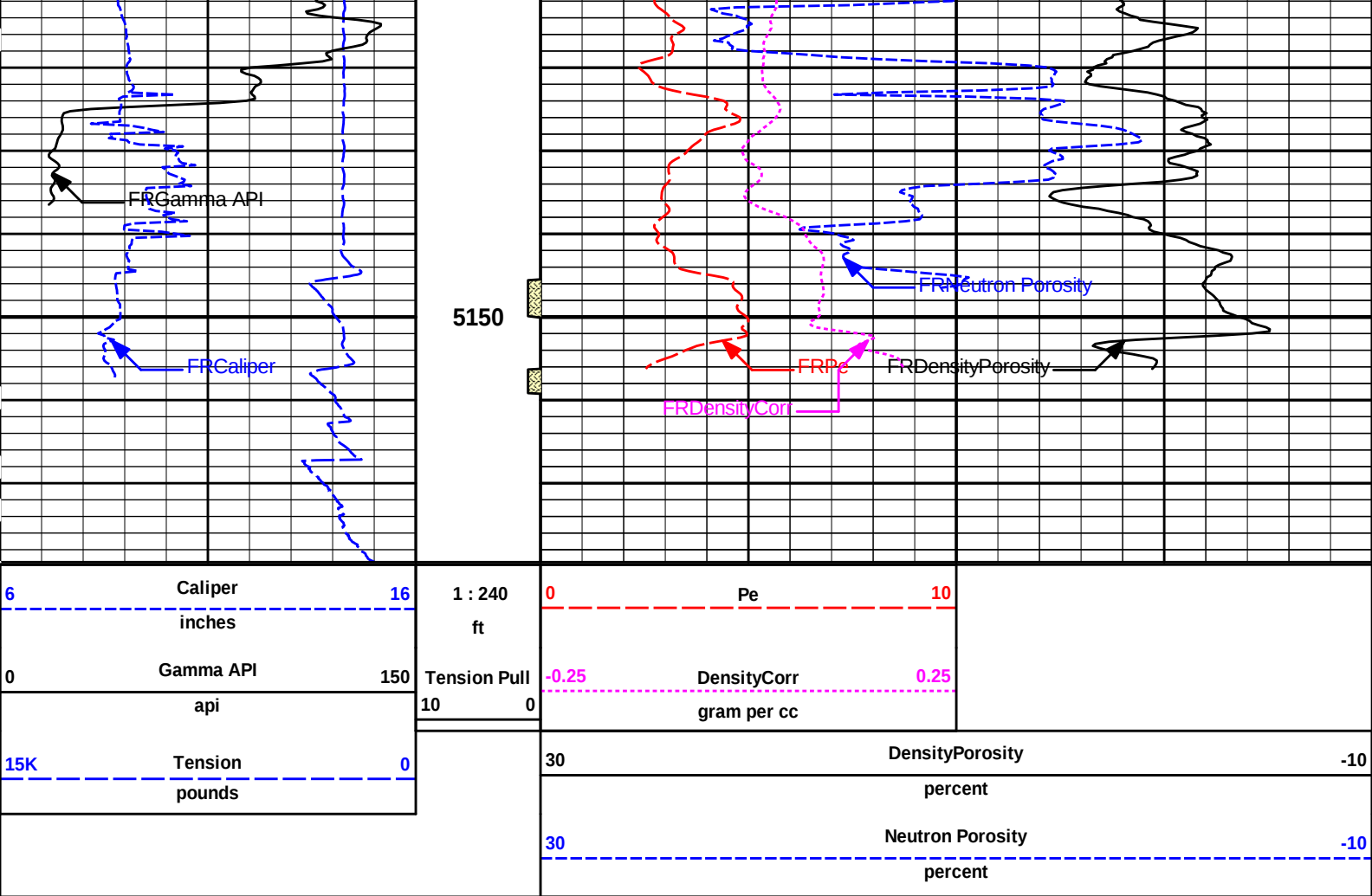
4750

4800

4850







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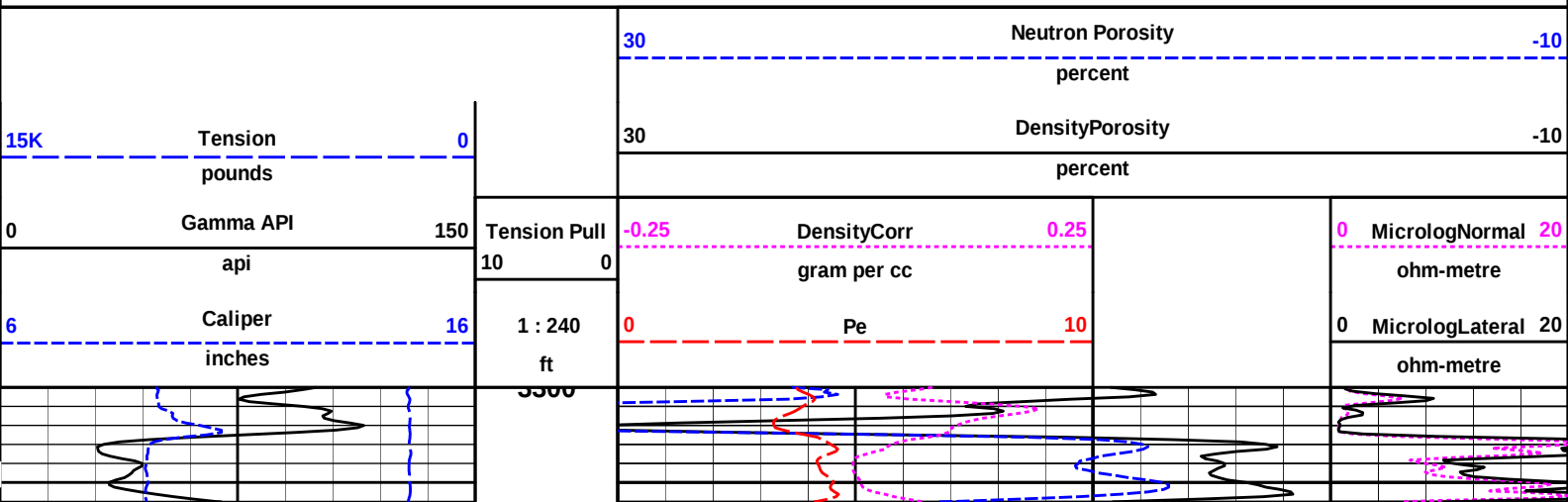
Plot Time: 09-May-12 00:18:47
Plot Range: 3300 ft to 5179.5 ft
Data: CANTON_C_3_20\Well Based\POROSITY MAIN\
Plot File: \\PORO\1_PoroMicro_5_mainx

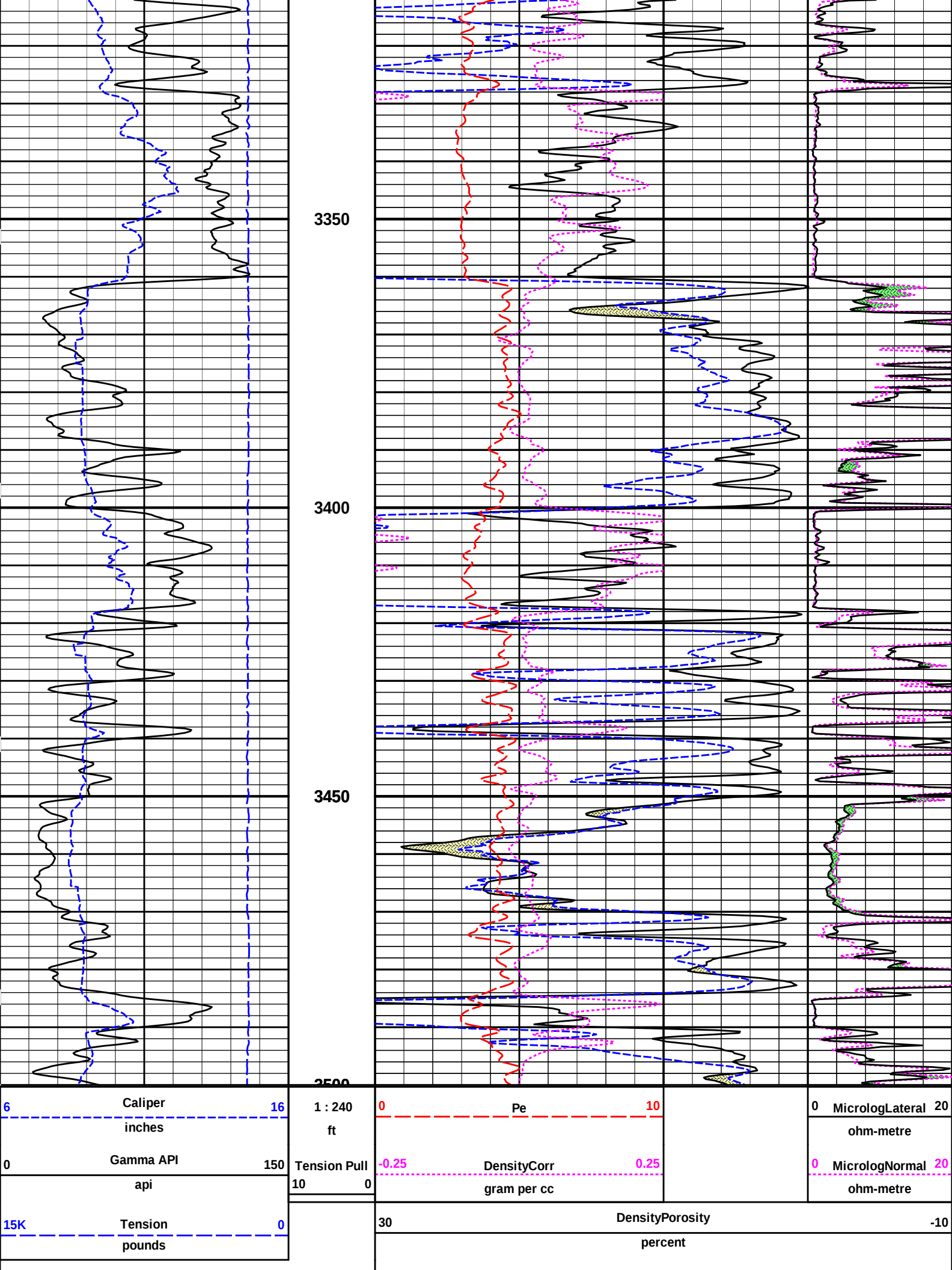
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 09-May-12 00:18:47
Plot Range: 3300 ft to 3500 ft
Data: CANTON_C_3_20\Well Based*\
Plot File: \\PORO\1_PoroMicro_5_rptx

REPEAT SECTION





3350

3400

3450

3500

6	Caliper	16
	inches	
0	Gamma API	150
	api	
15K	Tension	0
	pounds	

1 : 240	ft
Tension Pull	
10	0

0	Pe	10
-0.25	DensityCorr	0.25
	gram per cc	

0	MicrologLateral	20
	ohm-metre	
0	MicrologNormal	20
	ohm-metre	

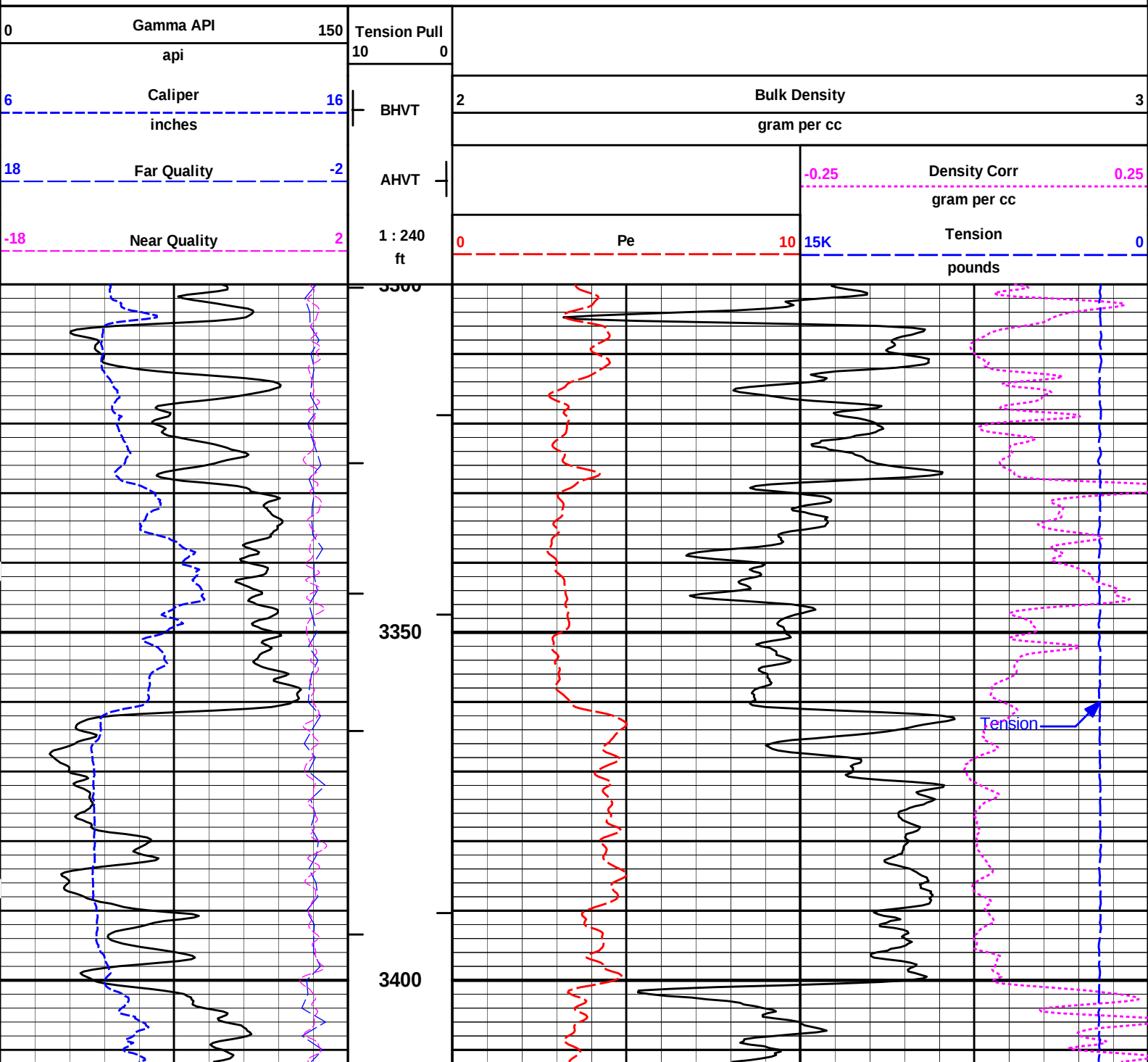
30	DensityPorosity	-10
	percent	

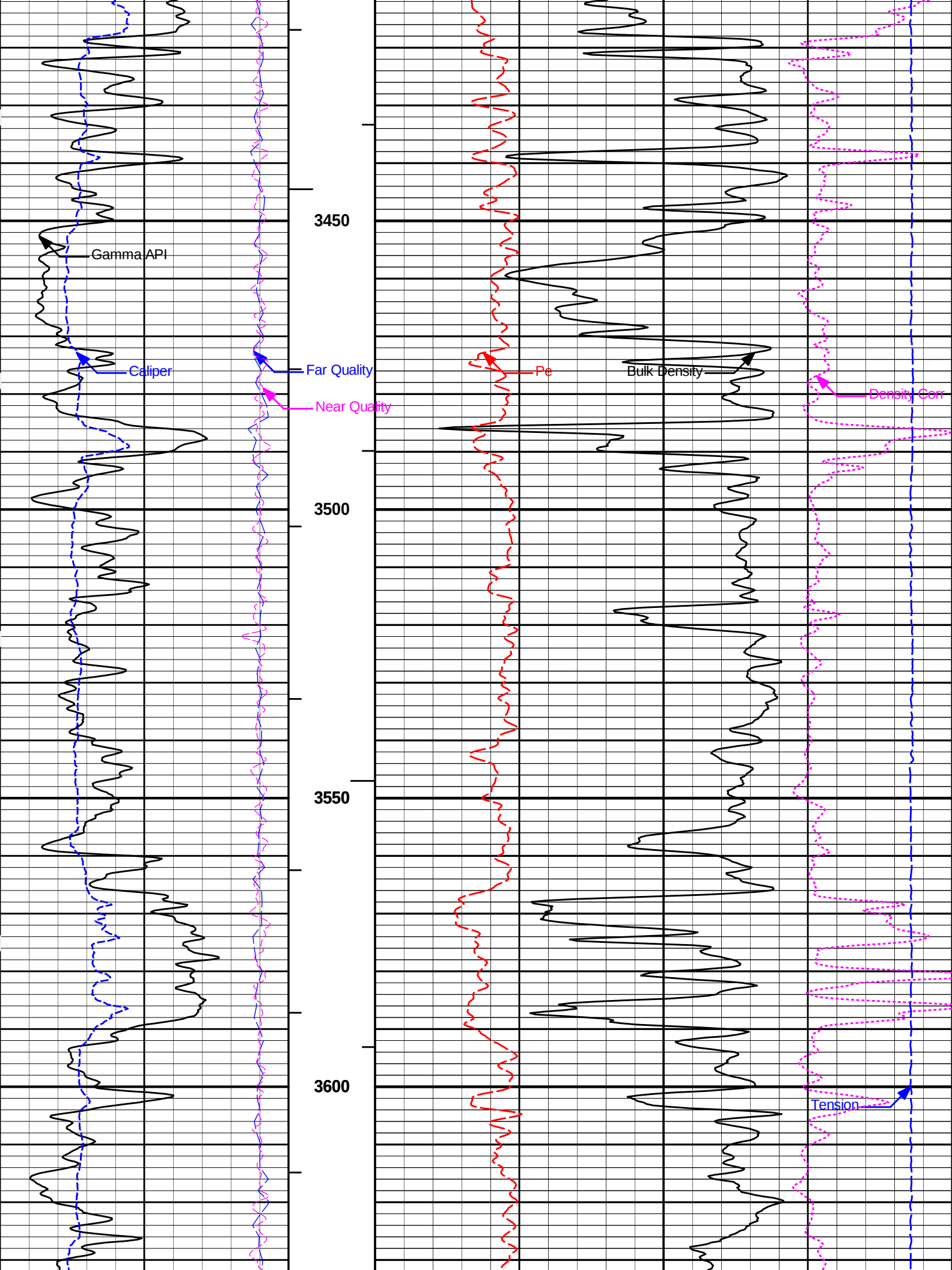
Plot Time: 09-May-12 00:18:52
Plot Range: 3300 ft to 3500 ft
Data: CANTON_C_3_20\Well Based*
Plot File: \\POROI1_PoroMicro_5_rptx

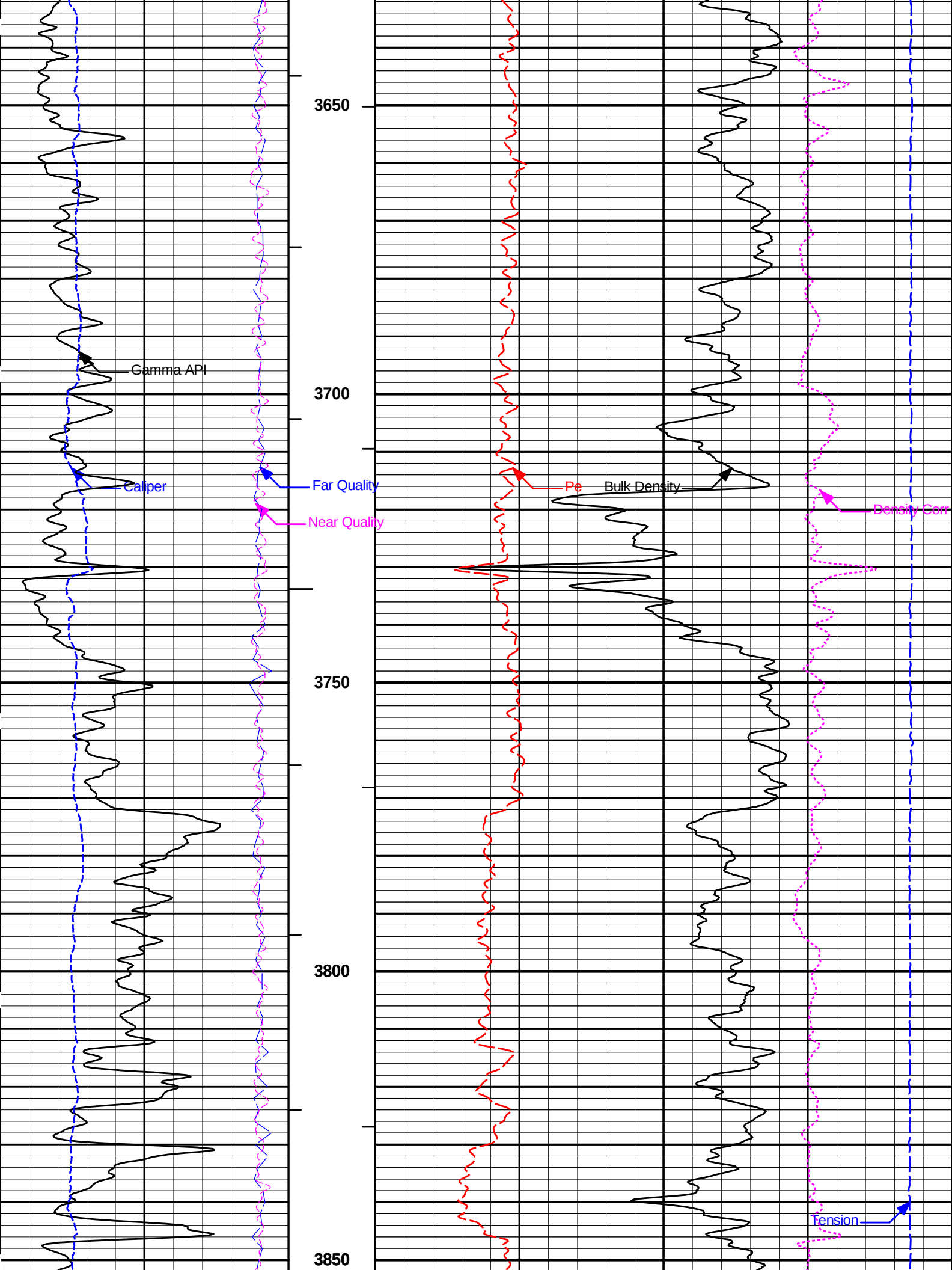
REPEAT SECTION

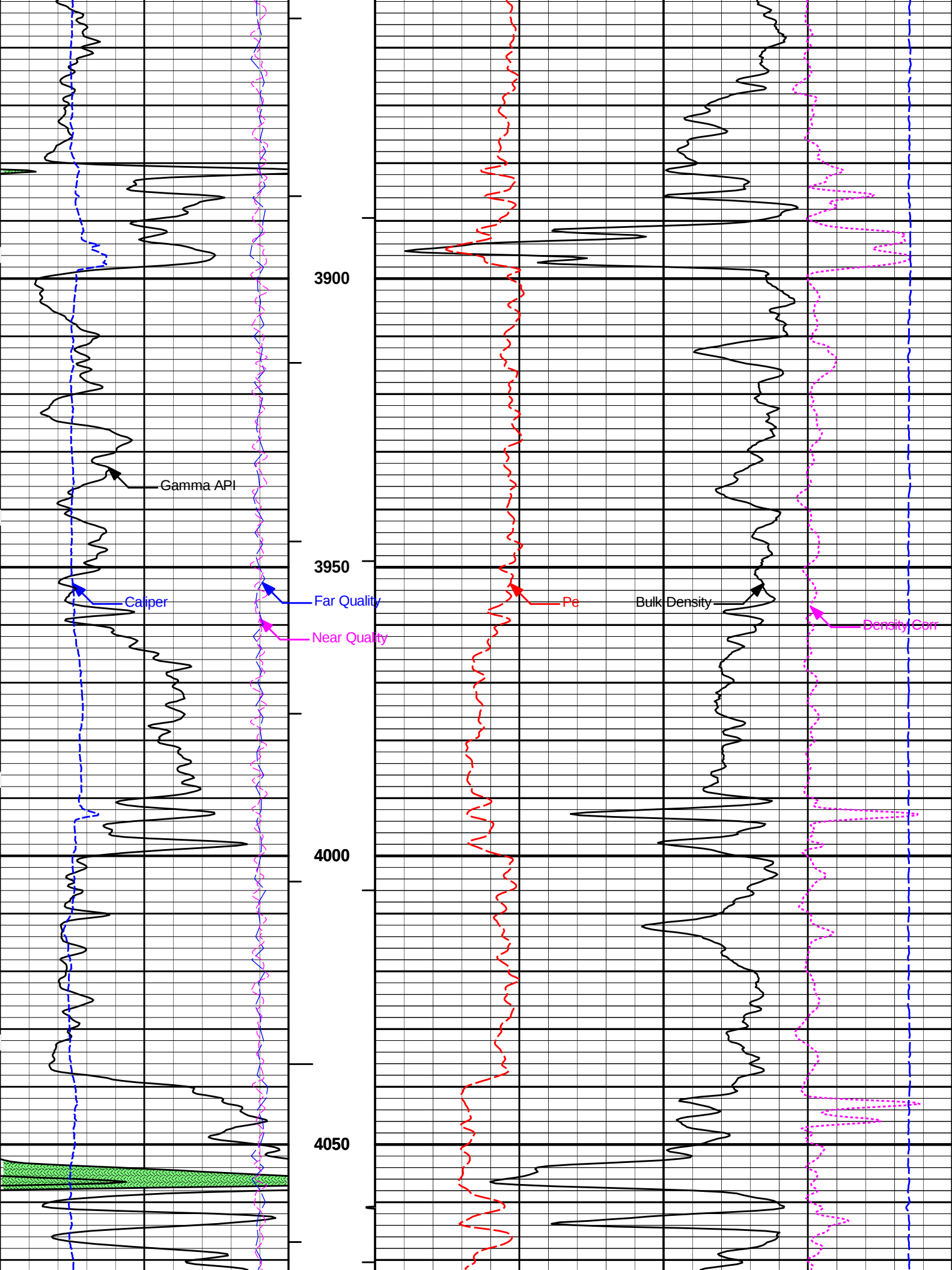
Plot Time: 09-May-12 00:18:53
Plot Range: 3300 ft to 5179.5 ft
Data: CANTON_C_3_20\Well Based\POROSITY MAIN
Plot File: \\PORO\1_Bulk_5_main.x

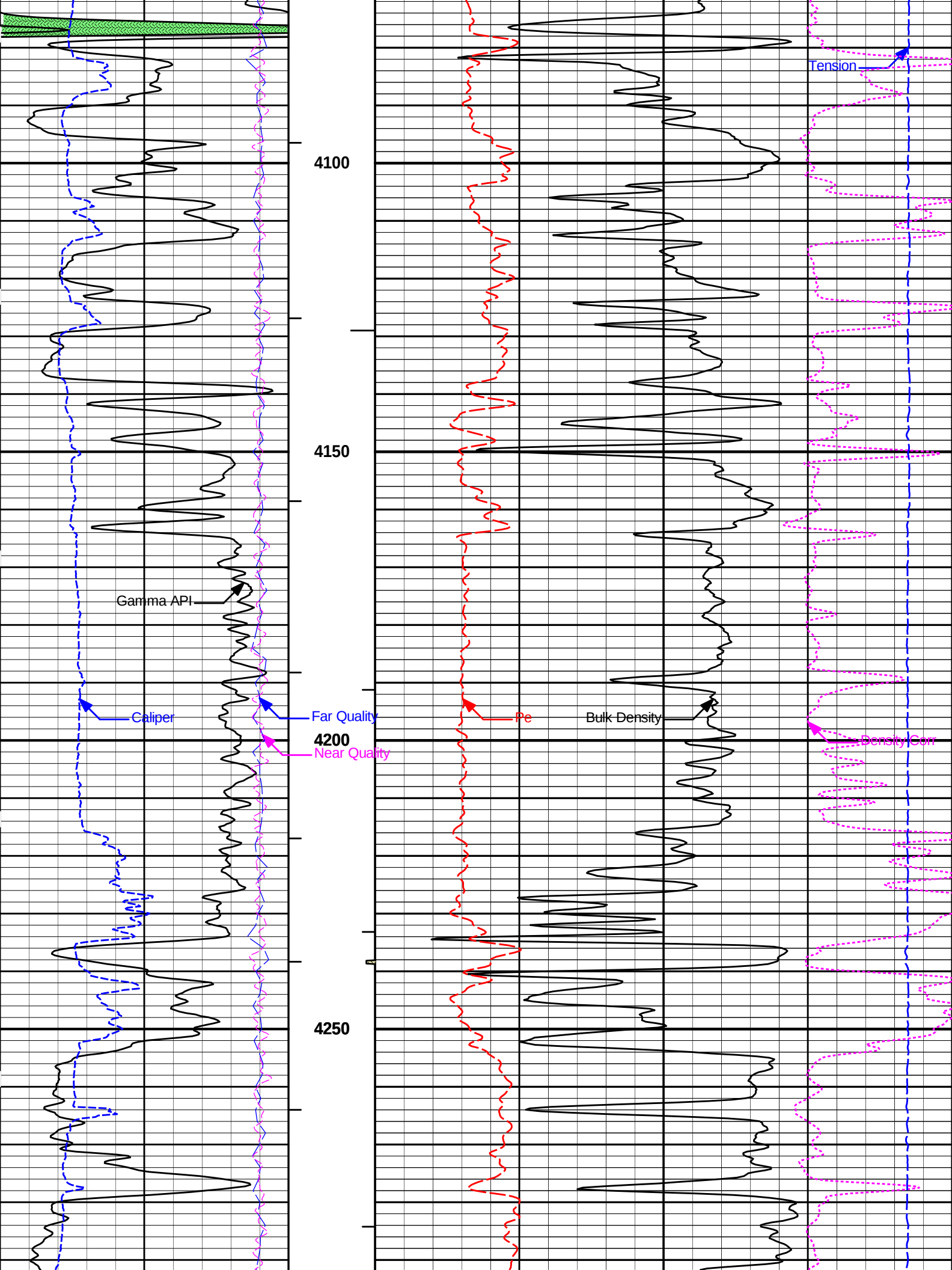
5 INCH MAIN LOG

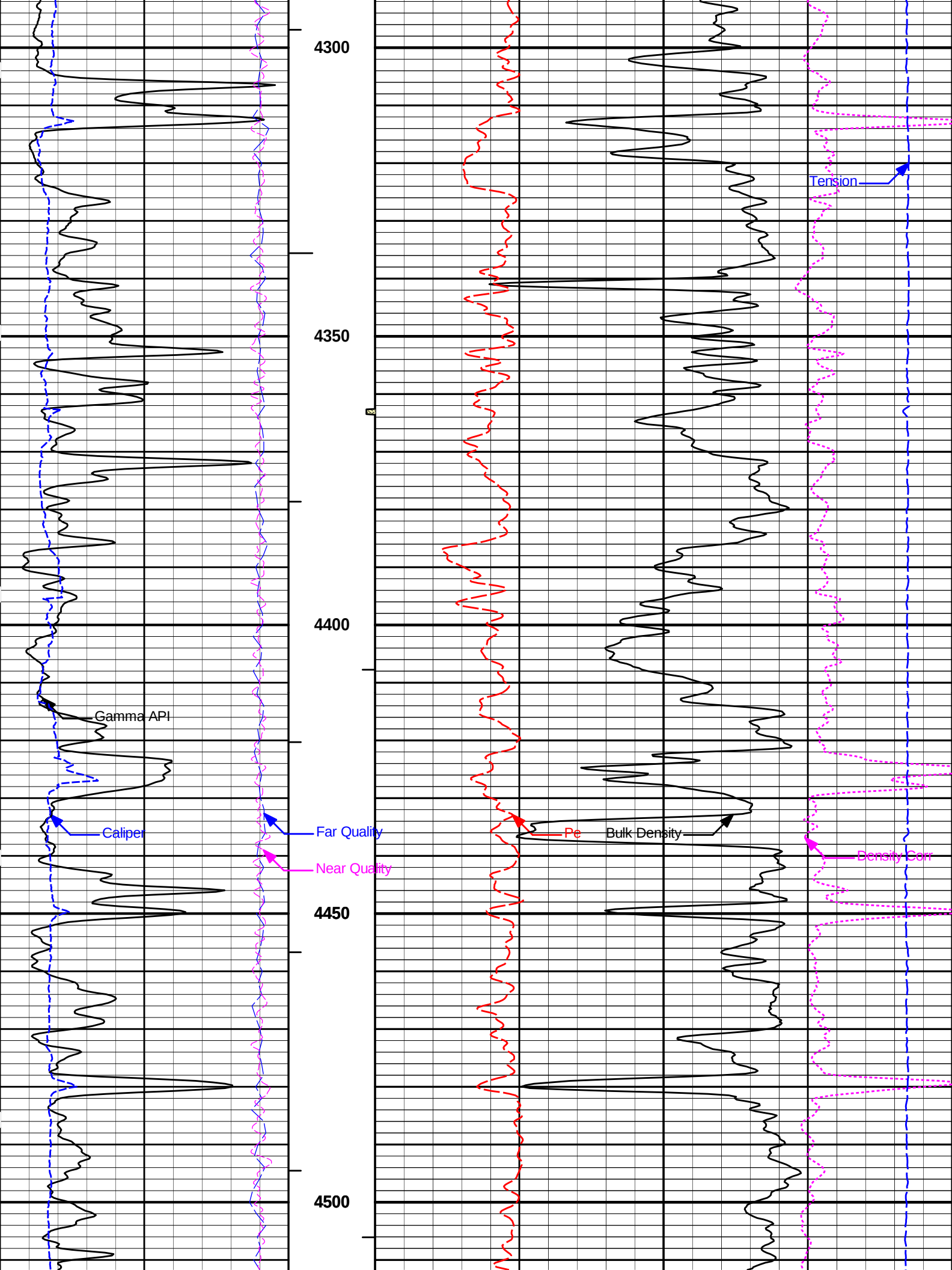


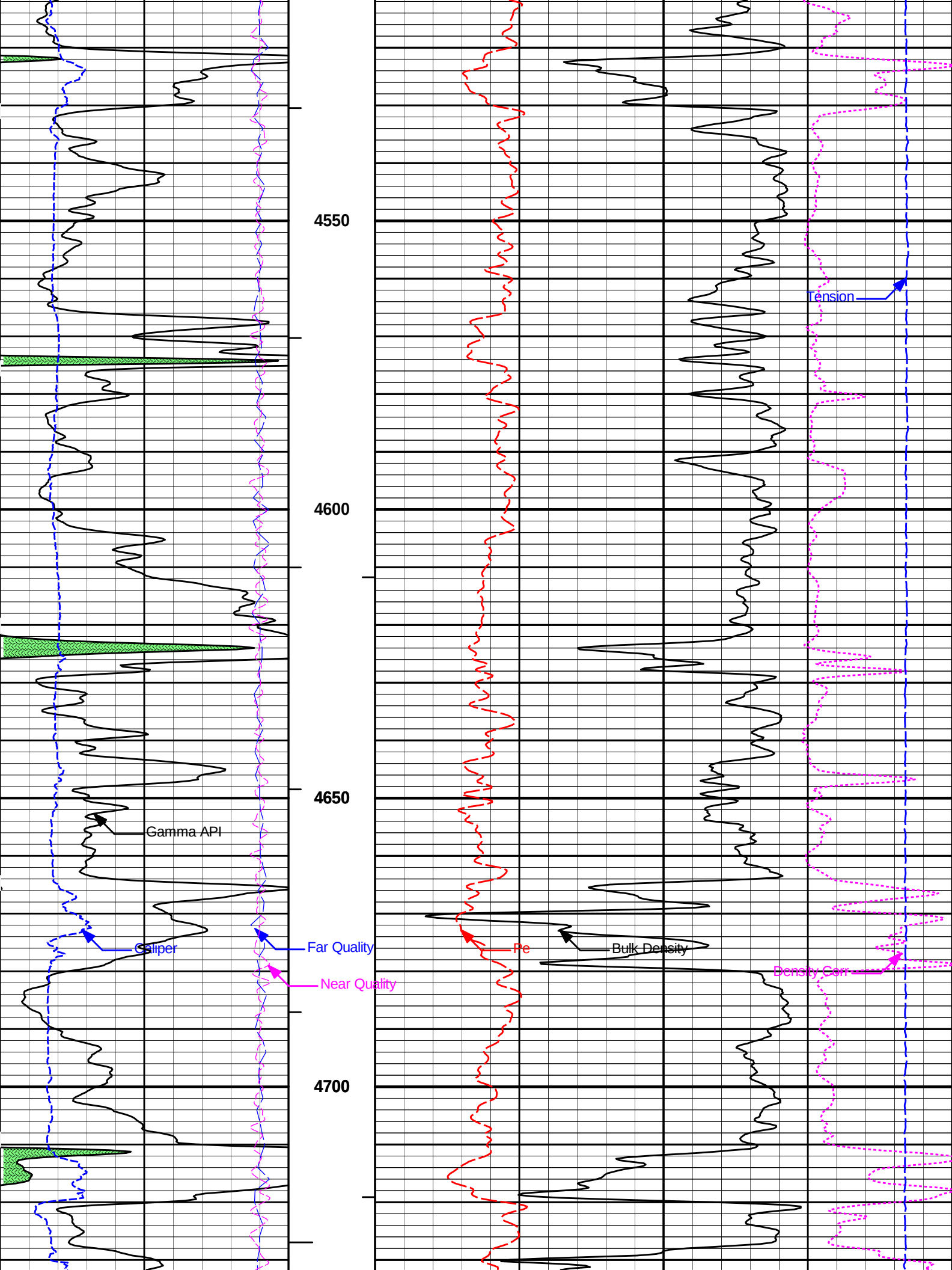


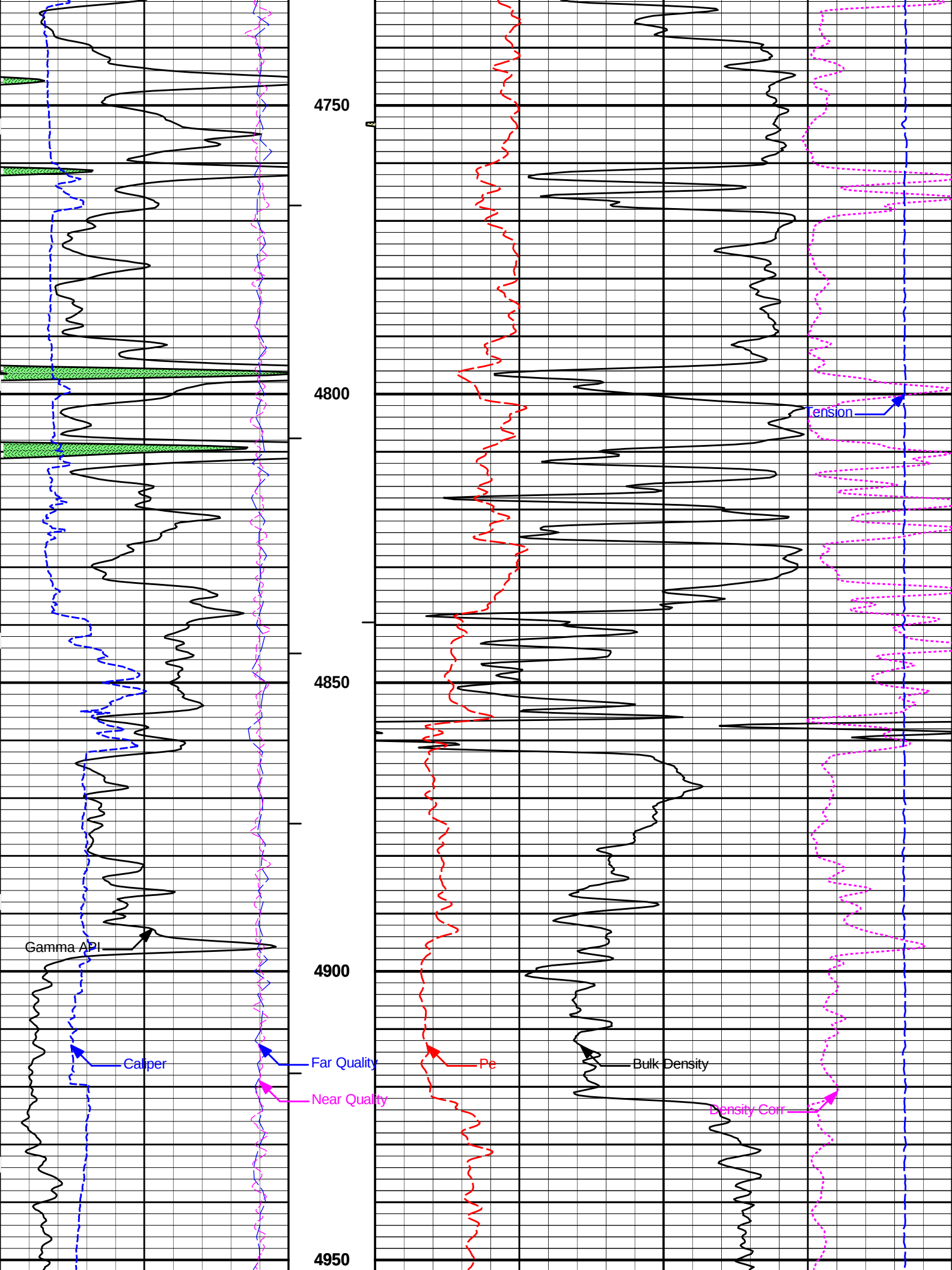


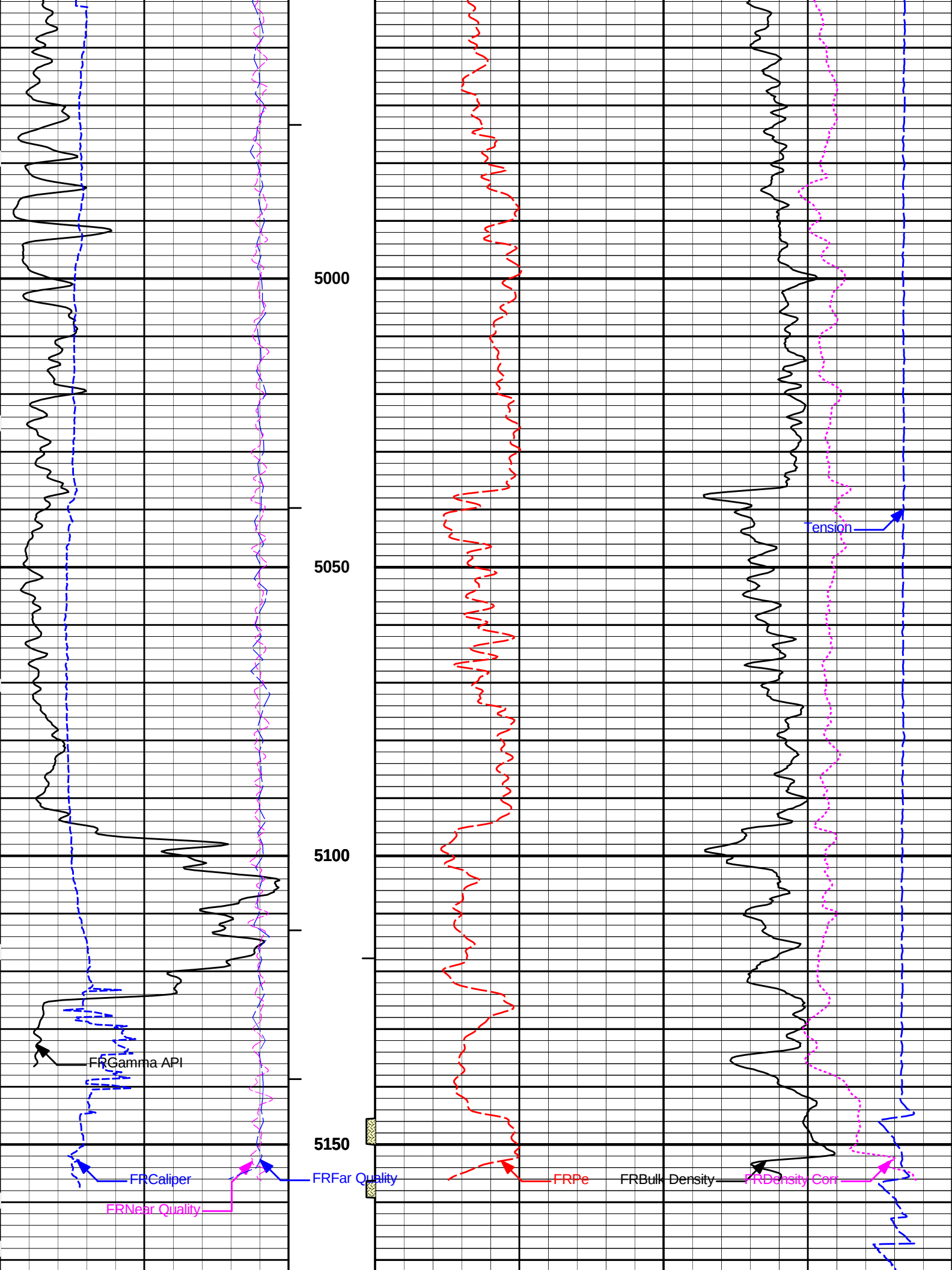










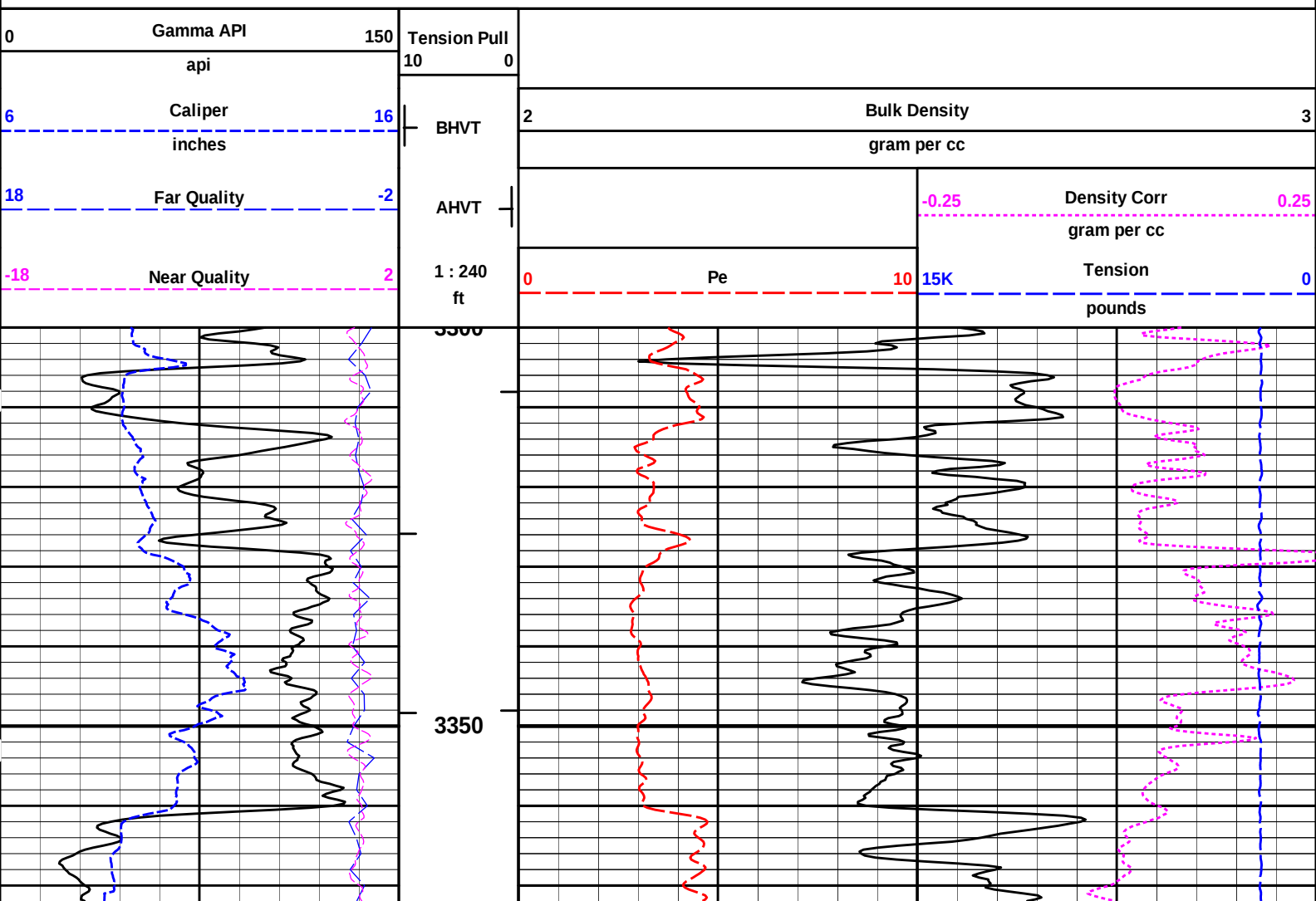


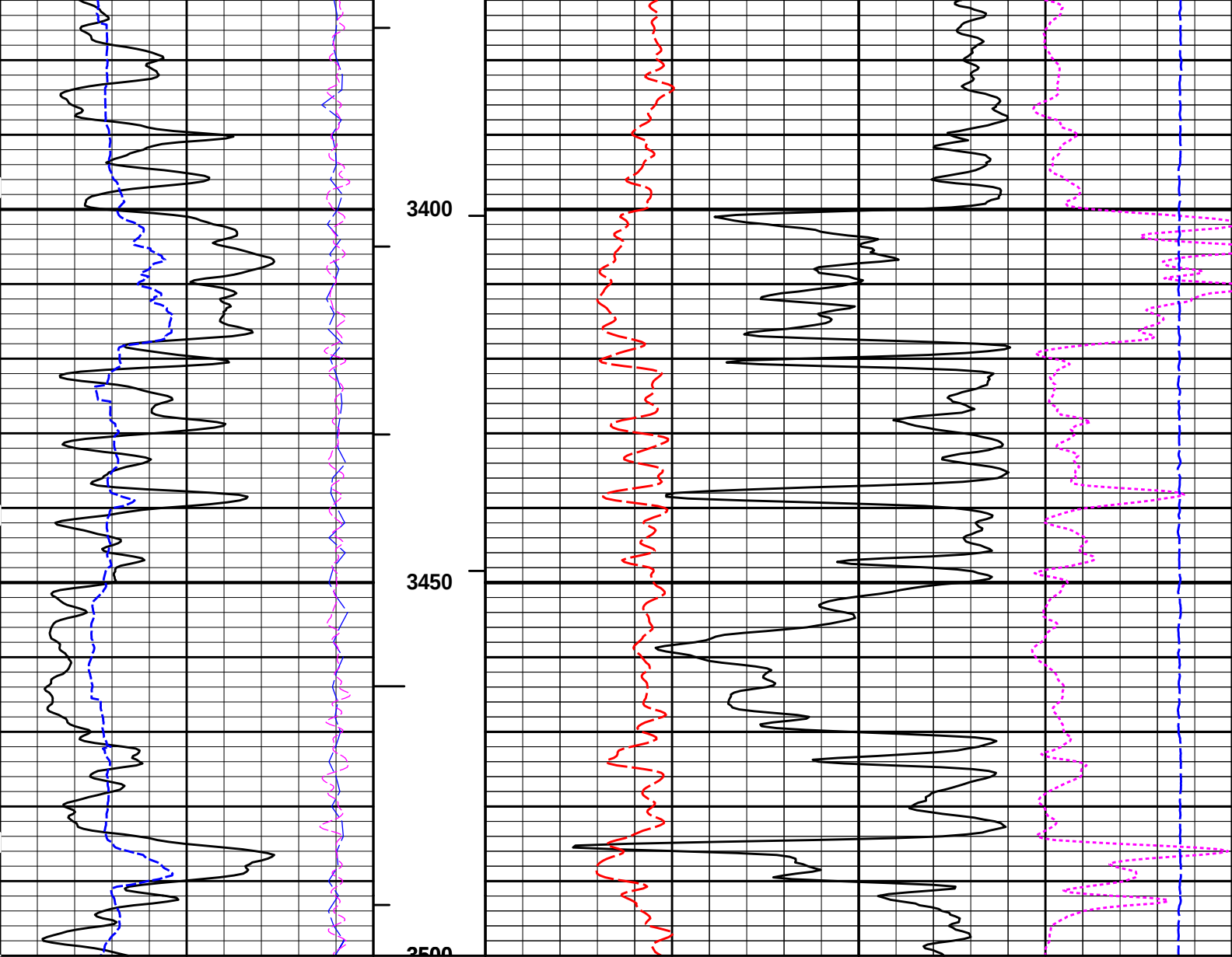
A large grid for drawing a picture related to the problem. The grid is 10 columns wide and 4 rows high. The first two columns are shaded light blue. The last column has a blue wavy line drawn vertically through it.

Plot Time: 09-May-12 00:18:55
Plot Range: 3300 ft to 5179.5 ft
Data: CANTON_C_3_20\Well Based\POROSITY MAIN
Plot File: \\PORO\1 Bulk 5 mainx

HALLIBURTON

REPEAT SECTION





-18	Near Quality	2	1 : 240 ft	0	Pe	10	15K	Tension	0
18	Far Quality	-2	AHVT					pounds	
6	Caliper	16	BHVT	2	Bulk Density			3	
	inches				gram per cc				
0	Gamma API	150	Tension Pull	10	0				
	api								

HALLIBURTON

Plot Time: 09-May-12 00:18:58
Plot Range: 3300 ft to 3500 ft
Data: CANTON_C_3_20Well BasedTM
Plot File: \\POROI1_Bulk_5_rptx

REPEAT SECTION

HALLIBURTON

PARAMETERS REPORT

Depth ((ft))	Tool Name	Mnemonic	Description	Value	Units
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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	9.300	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	1.200	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	5180.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	DSNT	DNOK	Process DSN?	Yes	
	DSNT	DEOK	Process DSN EVR?	No	
	DSNT	NLIT	Neutron Lithology	Limestone	
	DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
	DSNT	DNTP	Temperature Correction Type	None	
	DSNT	DPRS	DSN Pressure Correction Type	None	
	DSNT	SHCO	View More Correction Options	No	
	DSNT	UTVD	Use TVD for Gradient Corrections?	No	
	DSNT	LHWT	Logging Horizontal Water Tank?	No	
	SDLT	CLOK	Process Caliper Outputs?	Yes	
	SDLT Pad	DNOK	Process Density?	Yes	
	SDLT Pad	DNOK	Process Density EVR?	No	
	SDLT Pad	CB	Logging Calibration Blocks?	No	
	SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
	SDLT Pad	DTWN	Disable temperature warning	No	
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
	SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
	Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
	ACRt Sonde	RTOK	Process ACRt?	Yes	

ACRt Sonde	RTOR	Process ACRt:	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
BOTTOM				
Data: CANTON_C_3_20\0002 RED_BLACK SDL\003 08-May-12 20:02 Up @5180.5f				Date: 08-May-12 22:50:48

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION				
Tool Name:	GTET - 11013113	Reference Calibration Date:	17-Nov-11 17:56:53	
Engineer:	RAMIRO GONZALEZ	Calibration Date:	27-Apr-12 07:01:57	
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1	

Calibrator Source S/N: TB 150
 Calibrator API Reference:225.00 api
 Equivalent Calibrator API Reference:228.9 api

Measurement	Measured	Calibrated	Units
Background	15.3	15.4	api
Background + Calibrator	242.6	244.4	api
Calibrator	227.3	228.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 11013113	Reference Calibration Date:	27-Apr-12 07:01:57	
Engineer:	CORY HANSON	Calibration Date:	08-May-12 18:10:33	
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1	

Calibrator Source S/N: TB 150
 Calibrator API Reference:225.00 api
 Equivalent Calibrator API Reference:228.9 api

Field Verification	Shop	Field	Units
Background	15.4	32.9	api
Background + Calibrator	244.4	253.8	api
Calibrator	228.9	220.8	api

Shop	Field	Difference	Tolerance
228.9	220.8	8.1	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION				
Tool Name:	DSNT - 10993115	Reference Calibration Date:	03-Nov-11 15:14:03	
Engineer:	RAMIRO GONZALEZ	Calibration Date:	11-Jan-12 11:59:51	
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1	

Logging Source S/N: DSN_382
 Tank Serial Number: PV_TANK
 Reference value assigned to Tank: 56.100
 Snow Block S/N: 01
 Calibration Tank Water Temperature: 45 degF

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.001	1.000	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):	0.2363	0.2358	0.0006	+/- 0.0020
Calibrated Ratio:	10.58	10.56	0.019	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0524	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - I15M94P73	Reference Calibration Date:	07-Dec-11 13:40:36
Engineer:	RAMIRO GONZALEZ	Calibration Date:	12-Jan-12 12:18:47
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3032.47	-2970.52	-7000.00 - -1000.00
Pad Gain	0.0003825	0.0003711	0.000200 - 0.000600
Arm Offset	-570.33	-141.91	-5000.00 - 3000.00
Arm Gain	0.0005102	0.0004732	0.000300 - 0.000700
Arm Power	-0.000005115	-0.000002773	-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)	2.04	2.00	-0.04	+/- 0.20
Medium Ring (in)	3.84	3.75	-0.09	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.41	6.50	0.09	+/- 0.20
Medium Ring (in)	8.24	8.25	0.01	+/- 0.20
Large Ring (in)	14.95	15.00	0.05	+/- 0.20

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

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION			
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SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - I87M06P72

Reference Calibration Date: 20-Feb-12 12:44:22

Engineer: CORY HANSON

Calibration Date: 20-Feb-12 13:03:33

Software Version: WL INSITE R3.4.4 (Build 2)

Calibration Version: 1

Logging Source S/N: PV_20791B

Aluminum Block S/N: PV_63074

Density: 2.589g/cc

Pe: 3.140

Magnesium Block S/N: PV_63386

Density: 1.683g/cc

Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0817	1.0027	0.90 - 1.10
Near Dens Gain	1.0632	1.0068	0.90 - 1.10
Near Peak Gain	1.0746	0.9942	0.90 - 1.10
Near Lith Gain	1.0545	0.9802	0.90 - 1.10
Far Bar Gain	1.0114	1.0067	0.90 - 1.10
Far Dens Gain	0.9994	0.9944	0.90 - 1.10
Far Peak Gain	0.9949	0.9893	0.90 - 1.10
Far Lith Gain	0.9794	0.9745	0.90 - 1.10
Near Bar Offset	-0.6323	0.1044	NONE
Near Dens Offset	-0.4623	0.0453	NONE
Near Peak Offset	-0.5325	0.1505	NONE
Near Lith Offset	-0.3766	0.2543	NONE
Far Bar Offset	-0.0242	0.0204	NONE
Far Dens Offset	0.0762	0.1212	NONE
Far Peak Offset	0.1101	0.1579	NONE
Far Lith Offset	0.1984	0.2391	NONE
Near Bar Background	911.58	911.01	700 - 1450
Near Dens Background	298.23	297.49	230 - 480
Near Peak Background	128.45	128.19	100 - 210
Near Lith Background	160.14	160.02	125 - 260
Far Bar Background	545.05	544.11	450 - 900
Far Dens Background	214.04	212.30	175 - 345
Far Peak Background	83.73	82.75	70 - 140
Far Lith Background	86.48	87.96	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.684	1.683	-0.001	+/- 0.015
Pe	2.541	2.547	0.006	+/- 0.150
ALUMINUM				
Density (g/cc)	2.575	2.589	0.015	+/- 0.01500
Pe	3.082	3.091	0.009	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0007	+/- 0.0110	0.0005	+/- 0.0140
Magnesium Block	-0.0003	+/- 0.0110	-0.0004	+/- 0.0140

Aluminum Block	-0.0007	+/- 0.0110	0.0007	+/- 0.0140
Resolution	9.61	6.00 - 11.50	9.83	6.00 - 11.50
Internal Verifier(B+D+P+L)	1497	1200 - 2700	927	800 - 1700

PASS/FAIL SUMMARY

Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK

Tool Name:	SDLT Pad - I87M06P72	Reference Calibration Date:	20-Feb-12 13:03:33
Engineer:	CORY HANSON	Calibration Date:	08-May-12 18:08:57
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

Pad Temperature: 81.9 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1496.704	1494.856	-1.848	15.590
Far (B+D+P+L) cps	927.120	929.436	2.316	16.483
Near Resolution	9.61	9.77	0.160	0.50
Far Resolution	9.83	10.46	0.630	1.00

PASS/FAIL SUMMARY

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

MICRO LOG SHOP CALIBRATION

Tool Name:	Microlog Pad - I15M94P73	Reference Calibration Date:	07-Dec-11 13:57:35
Engineer:	RAMIRO GONZALEZ	Calibration Date:	18-Jan-12 11:12:23
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENT SUMMARY

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	0.01	-0.08	-0.47	0.00	ohmm
Calibration Point #1	0.09	0.00	-0.47	0.00	ohmm
Calibration Point #2	19.99	20.00	20.04	20.00	ohmm
Internal Reference	19.92	19.93	19.99	19.95	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	0.05	0.04	V
Calibration Point #1	21.79	0.03	V
Calibration Point #2	5297.60	6889.98	V
Internal Reference	5279.03	6873.94	V

MICRO LOG FIELD CHECK

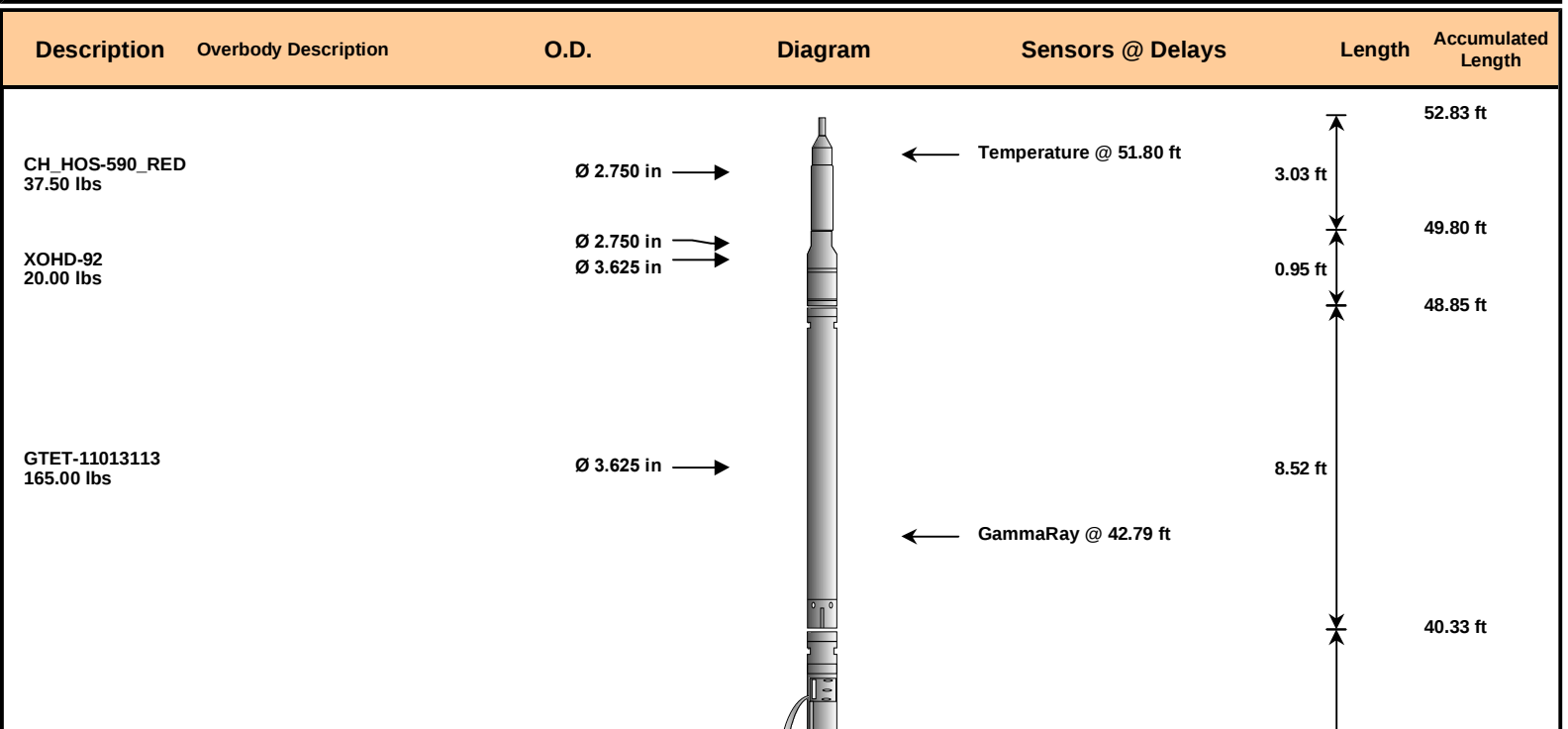
Tool Name:	Microlog Pad - I15M94P73	Reference Calibration Date:	18-Jan-12 11:12:23
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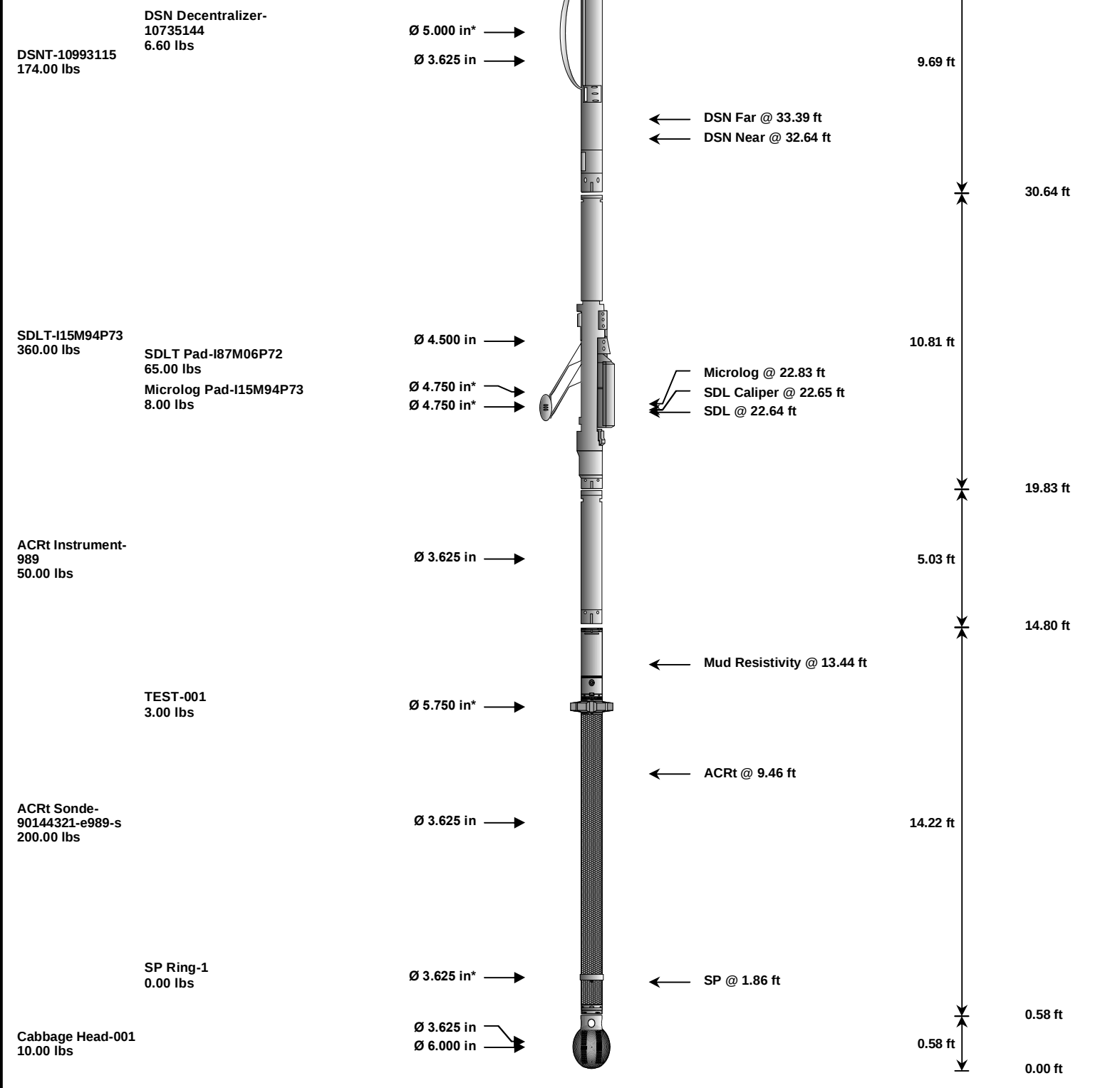
	Measurement	Micro Log Normal		Micro Log Lateral		Units
		Shop	Field	Shop	Field	
	Tool Zero	-0.08	-0.08	0.00	-0.00	ohmm
	Internal Reference	19.93	20.01	19.95	20.05	ohmm
Summary						
	Signal	Shop	Field	Difference		Tolerance
	Microlog Normal	19.93	20.01	-0.08		+/- 0.80
	Microlog Lateral	19.95	20.05	-0.10		+/- 0.80

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11013113						
Gamma Ray Calibrator	228.9	220.8	-----	8.1	+/- 9.00	api
DSNT-10993115						
Snow-Block Porosity	0.0524	-----	-----	0.0000	+/- -.--	decp
SDLT-I15M94P73						
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in
SDLT Pad-I87M06P72						
Near(B+D+P+L)	1496.704	1494.856	-----	1.848	+/-15.590	cps
Far(B+D+P+L)	927.120	929.436	-----	-2.316	+/-16.483	cps
Microlog Pad-I15M94P73						
MicroLog Normal	19.93	20.01	-----	-0.08	+/-0.80	ohmm
MicroLog Lateral	19.95	20.05	-----	-0.10	+/-0.80	ohmm
Data: CANTON_C_3_20\0002 RED_BLACK_SDL\003 08-May-12 20:02 Up @5180.5f					Date: 09-May-12 00:11:01	

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TOOL STRING DIAGRAM REPORT





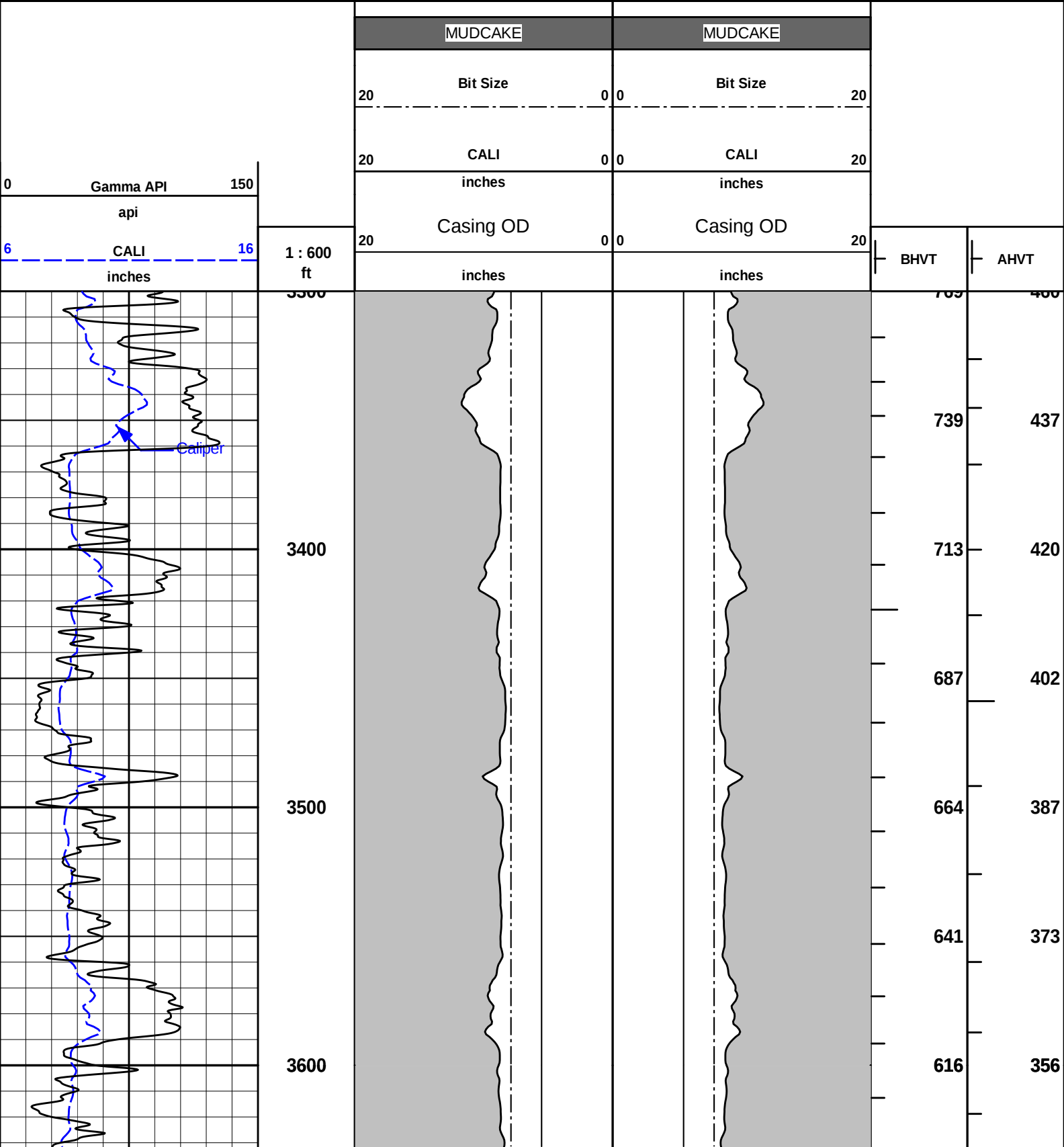
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	590_RED	37.50	3.03	49.80	300.00
XOHD	Hostile to Dits Cross Over	92	20.00	0.95	48.85	300.00
GTET	Gamma Telemetry Tool	11013113	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10993115	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10735144	6.60	5.13	*	33.97
SDLT	Spectral Density Tool	I15M94P73	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad	I87M06P72	65.00	2.55	*	22.04
MICP	Microlog Pad	I15M94P73	8.00	1.00	*	22.33
ACRt	Array Compensated True Resistivity Instrument Section	989	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity	90144321-e989-s	200.00	14.22	0.58	300.00
SP	SP Ring	1	0.00	0.25	*	1.86
SO	STANDOFF	001	3.00	0.59	*	11.58
CBHD	Cabbage Head	001	10.00	0.58	0.00	300.00
Total			1,099.10	52.83		

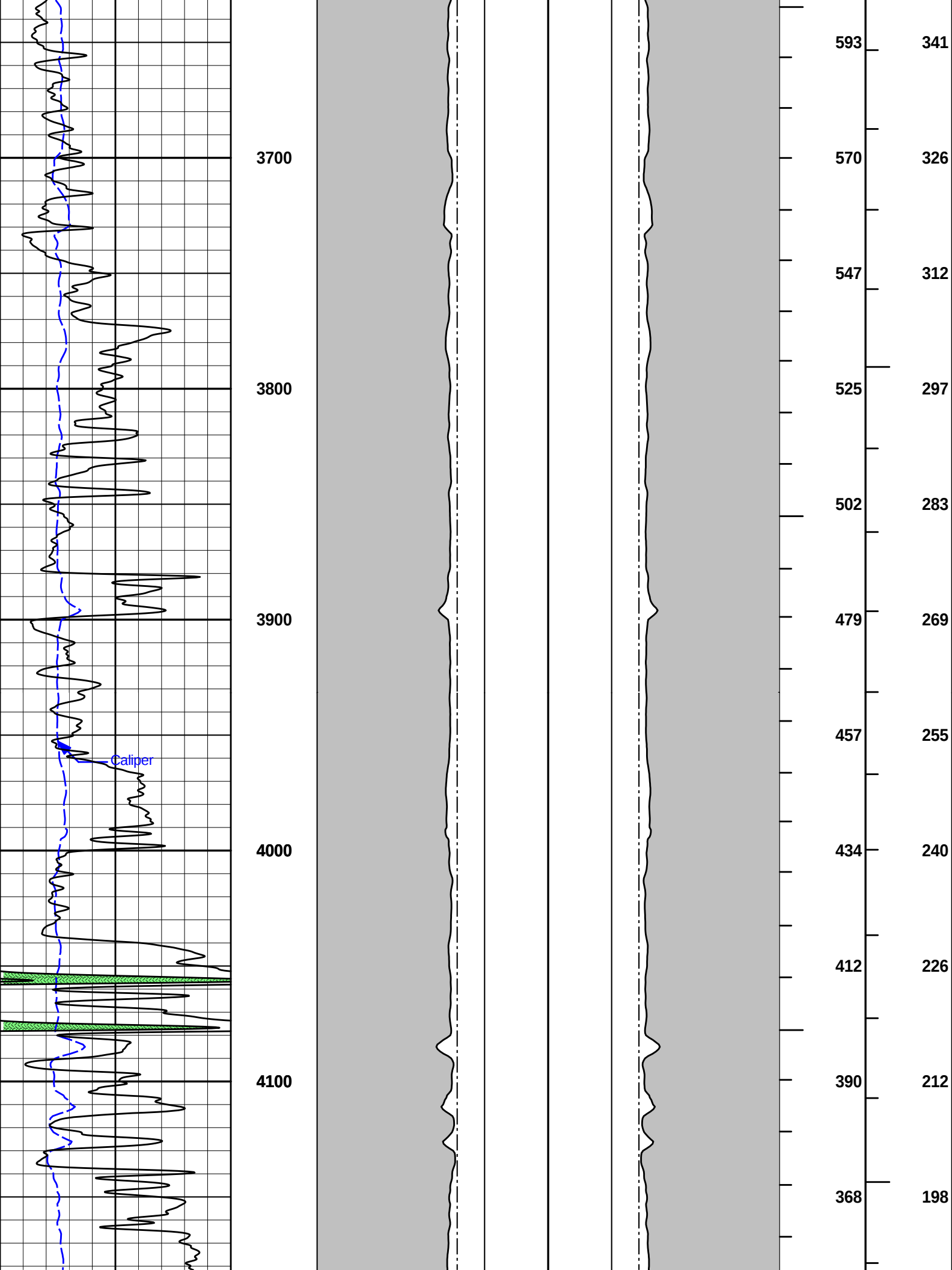
* Not included in Total Length and Length Accumulation.

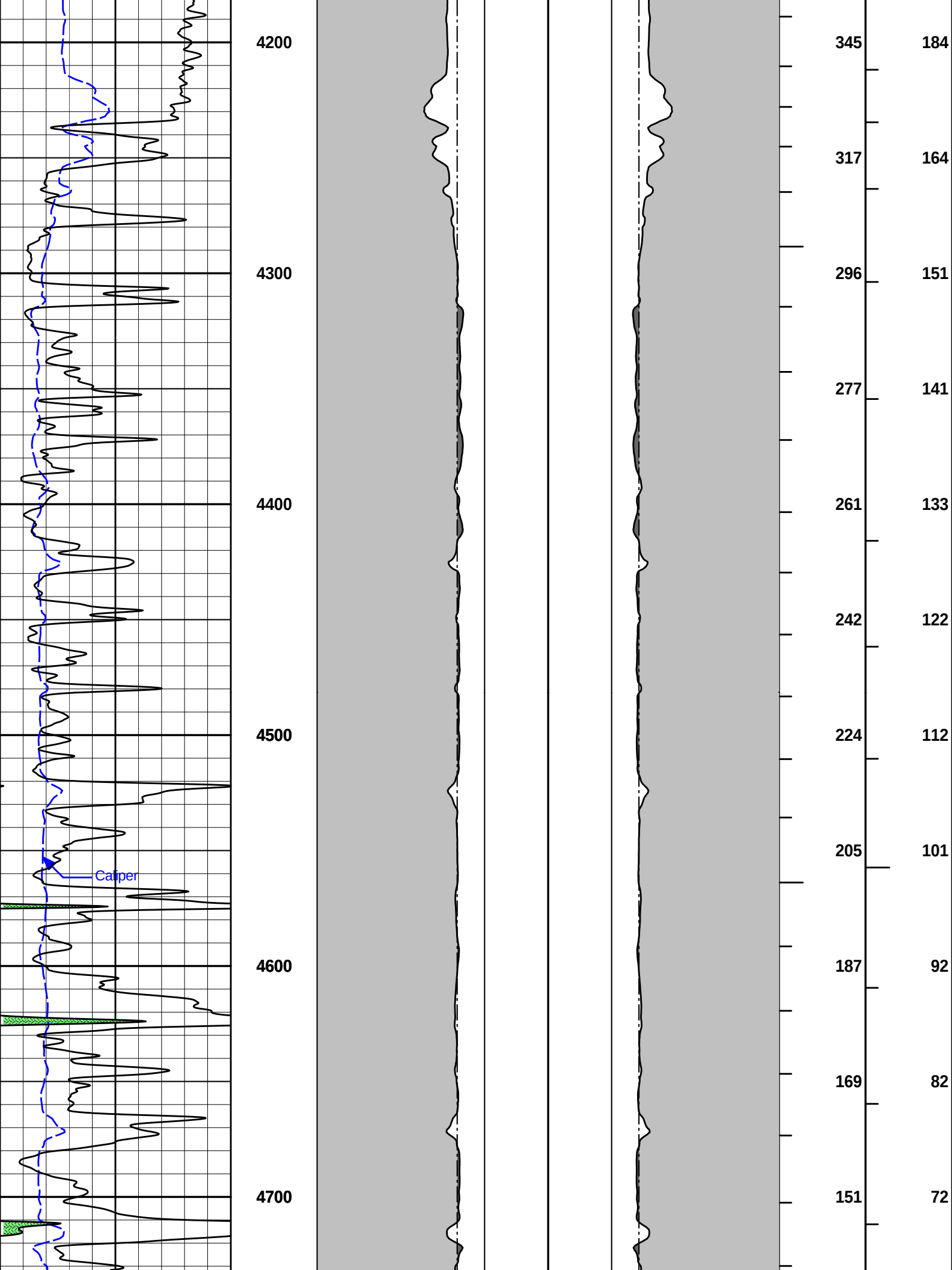
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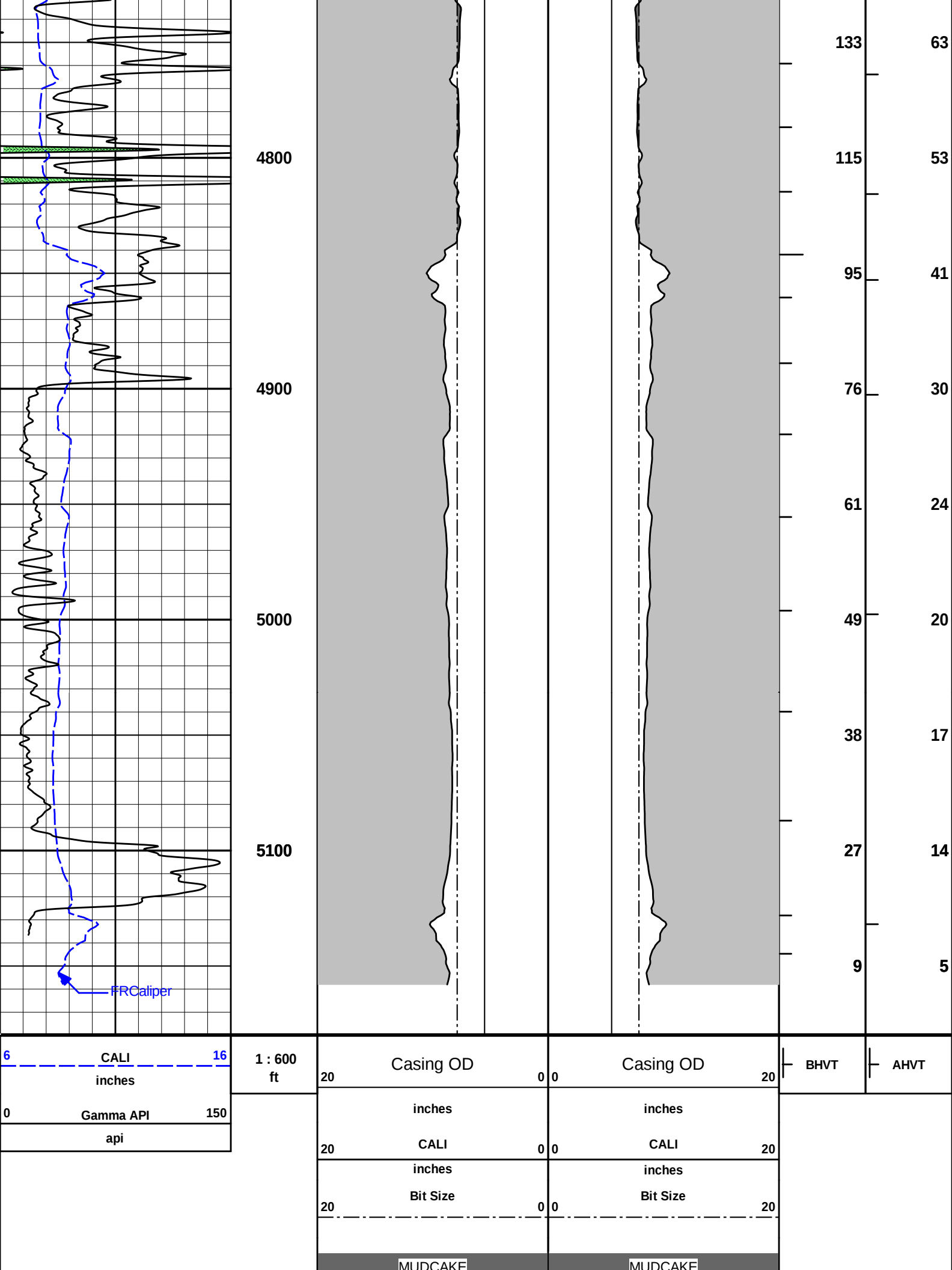
Plot Time: 09-May-12 00:18:58
Plot Range: 3300 ft to 5179.5 ft
Data: CANTON_C_3_20\Well Based*
Plot File: \\LOCAL-CANTON_C_3_20\0002 RED_BLACK_SDL\PORO\1_AHV Plot_x

ANNULAR HOLE VOLUME PLOT









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Plot Time: 09-May-12 00:19:01
Plot Range: 3300 ft to 5179.5 ft
Data: CANTON_C_3_20\Well Based*\n
Plot File: \\-LOCAL-CANTON_C_3_20\0002 RED_BLACK_SDL\PORO\1_AHV Plot_x

ANNULAR HOLE VOLUME PLOT

COMPANY	HERMAN L LOEB		
WELL	CANTON C #3-20		
FIELD	GLICK		
COUNTY	KIOWA	STATE	KANSAS

HALLIBURTON

DUAL SPACED NEUTRON
SPECTRAL DENSITY
LOG