

HALLIBURTON

DUAL SPACED NEUTRON SPECTRAL DENSITY LOG

COMPANY		VAL ENERGY, INC.	
WELL		TALBOT 7-9	
FIELD		SOUTH RHODES	
COUNTY		BARBER	
STATE		KANSAS	
Permanent Datum	GL	Location	API No. 15-007-23869
Log measured from	KB	LAT: 37.09° N LONG: 98.52° W	Other Services: ACRT MICRO
Drilling measured from	KB	1320 FSL 660' FEL	
Date	15-May-12		
Run No.	ONE		
Depth - Driller	4840.00 ft		
Depth - Logger	4839.0 ft		
Bottom - Logged Interval	4817.0 ft		
Top - Logged Interval	3400.0 ft		
Casing - Driller	8.625 in @ 222.0 ft		
Casing - Logger	224.0 ft		
Bit Size	7.875 in		
Type Fluid in Hole	WATER BASED MUD		
Density	9.3 ppq	10.00 s/qt	
PH	11.00 pH	1.0 pptm	
Source of Sample	FLOW LINE		
Rm @ Meas. Temperature	0.170 ohmm	@ 75.00 degF	@
Rmf @ Meas. Temperature	0.14 ohmm	@ 75.00 degF	@
Rmc @ Meas. Temperature	0.200 ohmm	@ 75.00 degF	@
Source Rmf	Rmc	MEAS	MEAS
Rm @ BHT	0.11 ohmm	@ 115.0 degF	@
Time Since Circulation			
Time on Bottom	15-May-12 23:45		
Max. Rec. Temperature	115.0 degF	@ 4839.0 ft	@
Equipment	1054696	LIBERAL	
Recorded By	T. HYDE		
Witnessed By	S. VANBUSKIRK		

Fold here

Service Ticket No.: 9518306		API Serial No.: 15-007-23869		PGM Version: WL INSITE R3.4.2 (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.	11048627	Serial No.		Serial No.	I43_M296	Serial No.	11019643
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	No. of Cent.		Diameter	4.5"	Diameter	3.625"
Detector Model No.	T-102	Spacing		Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT			Source Type	Cs137	Source Type	Am241Be
Length	8"	LSA [Y/N]		Serial No.	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	

Run No.	Depth		Speed ft/min	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
	From	To		L	R	L	R		L	R		L	R	
ONE	4839	3400	REC	0	150				30	-10	2.71	30	-10	LIME

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING
CHLORIDES REPORTED AT 5000 MG/L

TODAY'S CREW P. COBLE V. JAIME

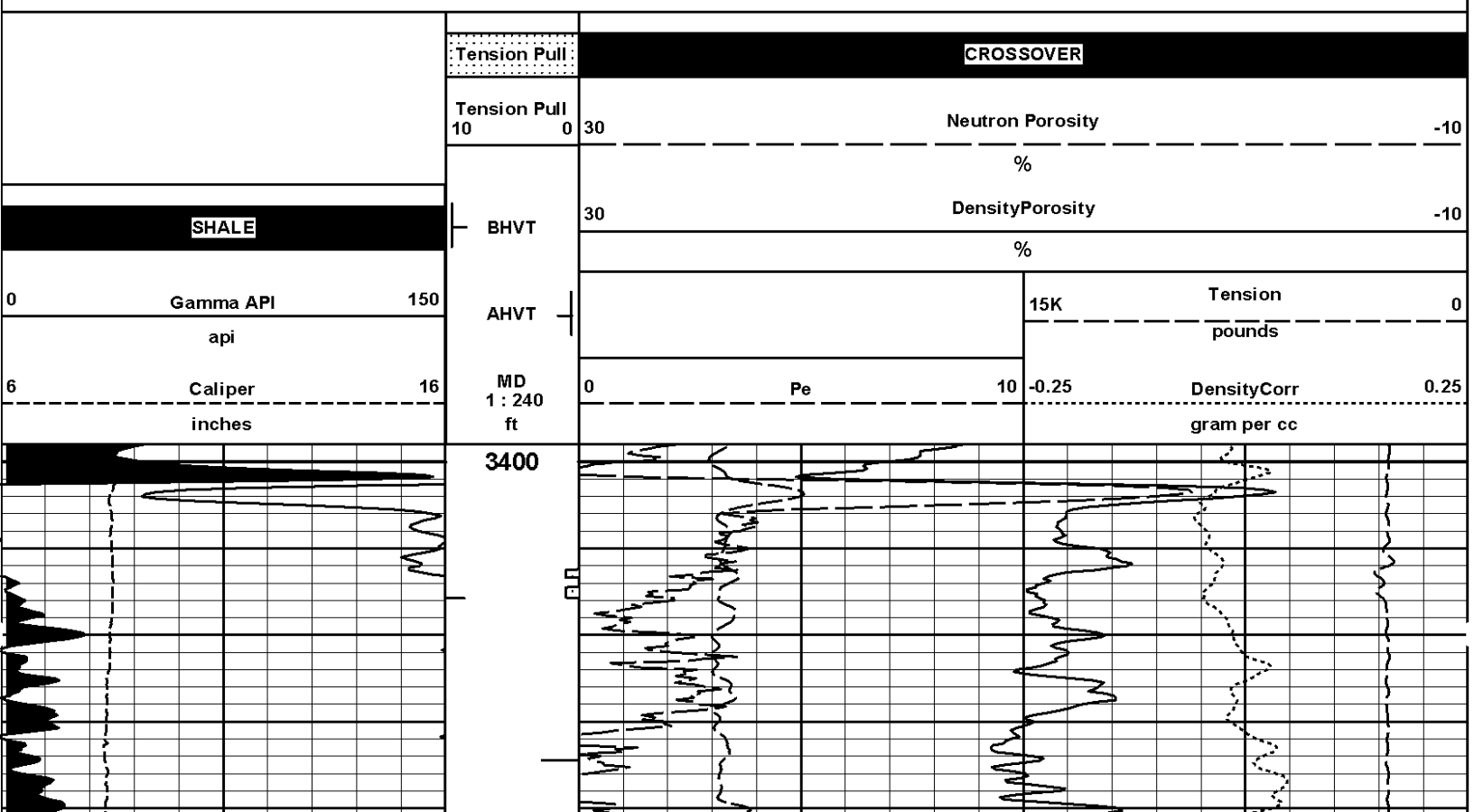
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS 620-624-8123

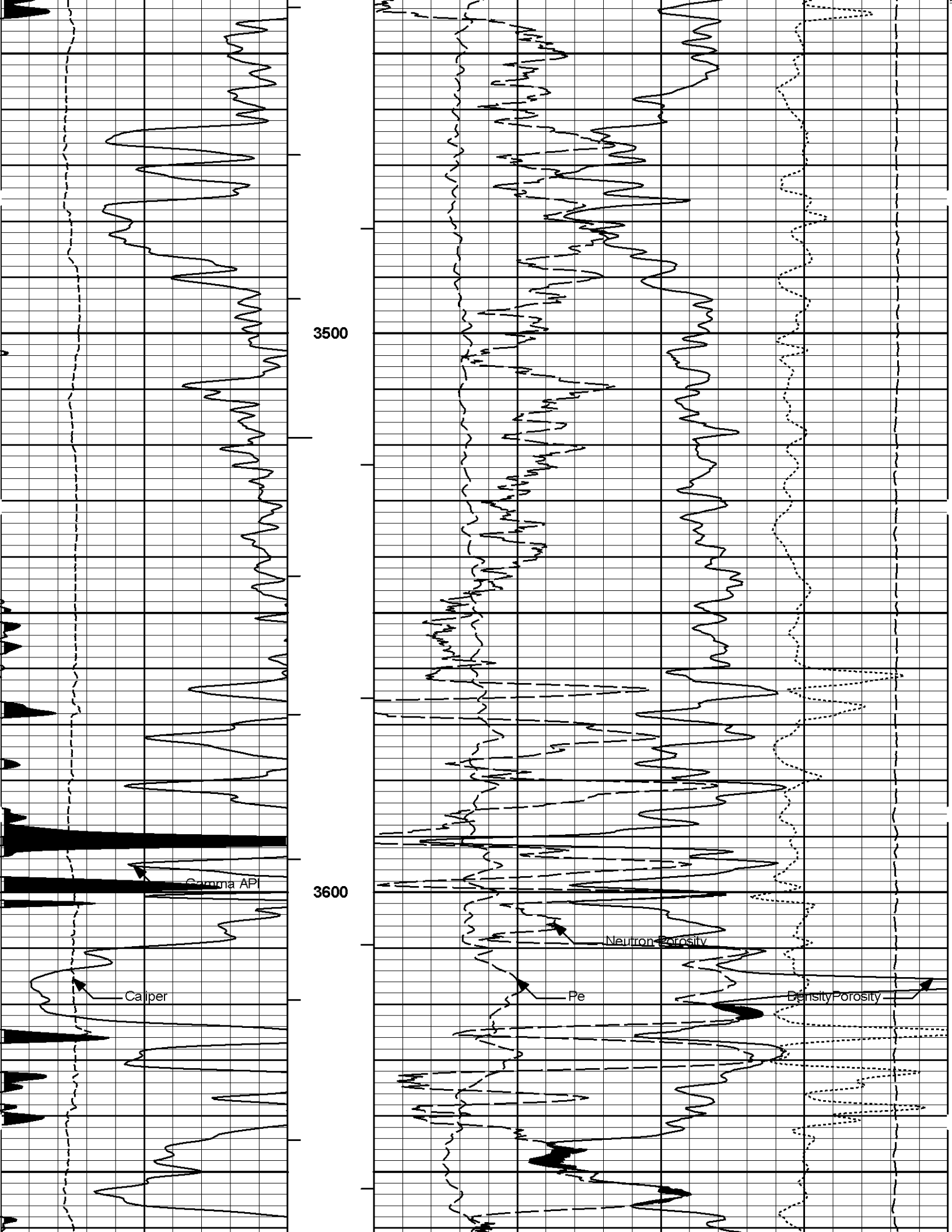
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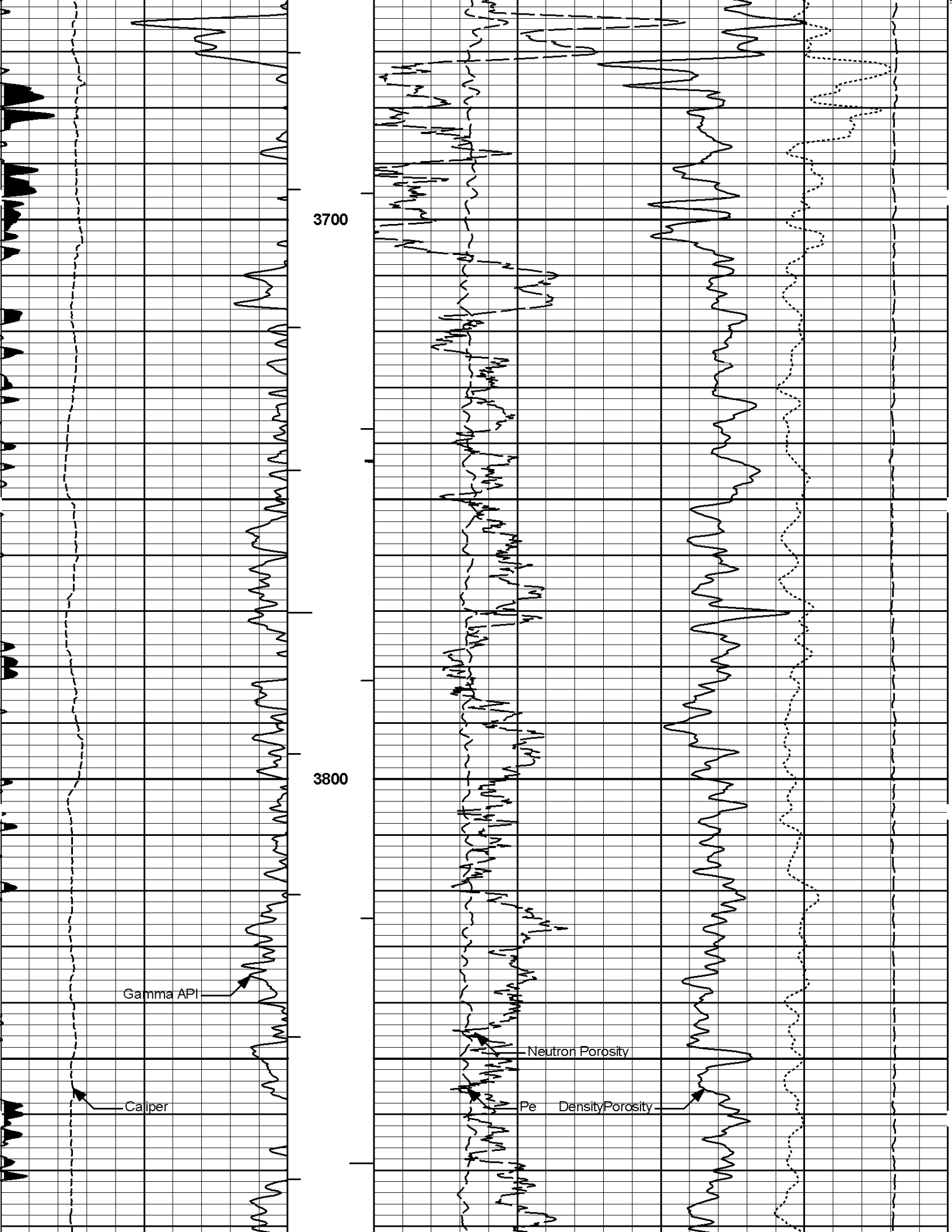
HALLIBURTON

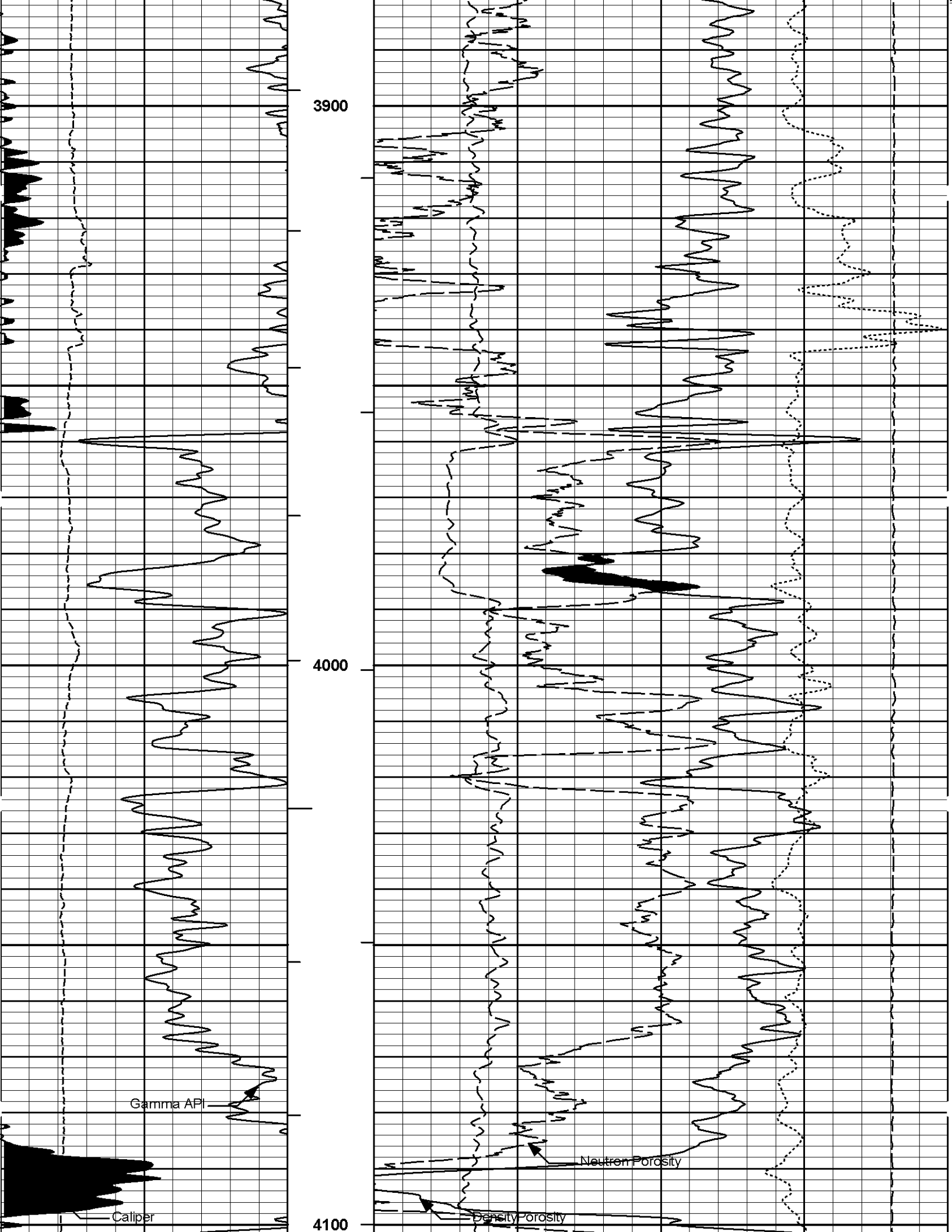
Plot Time: 16-May-12 00:19:04
 Plot Range: 3398 ft to 4845 ft
 Data: TALBOTT_7_9\Well Based\DAQ-0001-004\
 Plot File: \\PORO\Poro_IQ_5_MAIN_LIB

5 INCH MAIN LOG









3900

4000

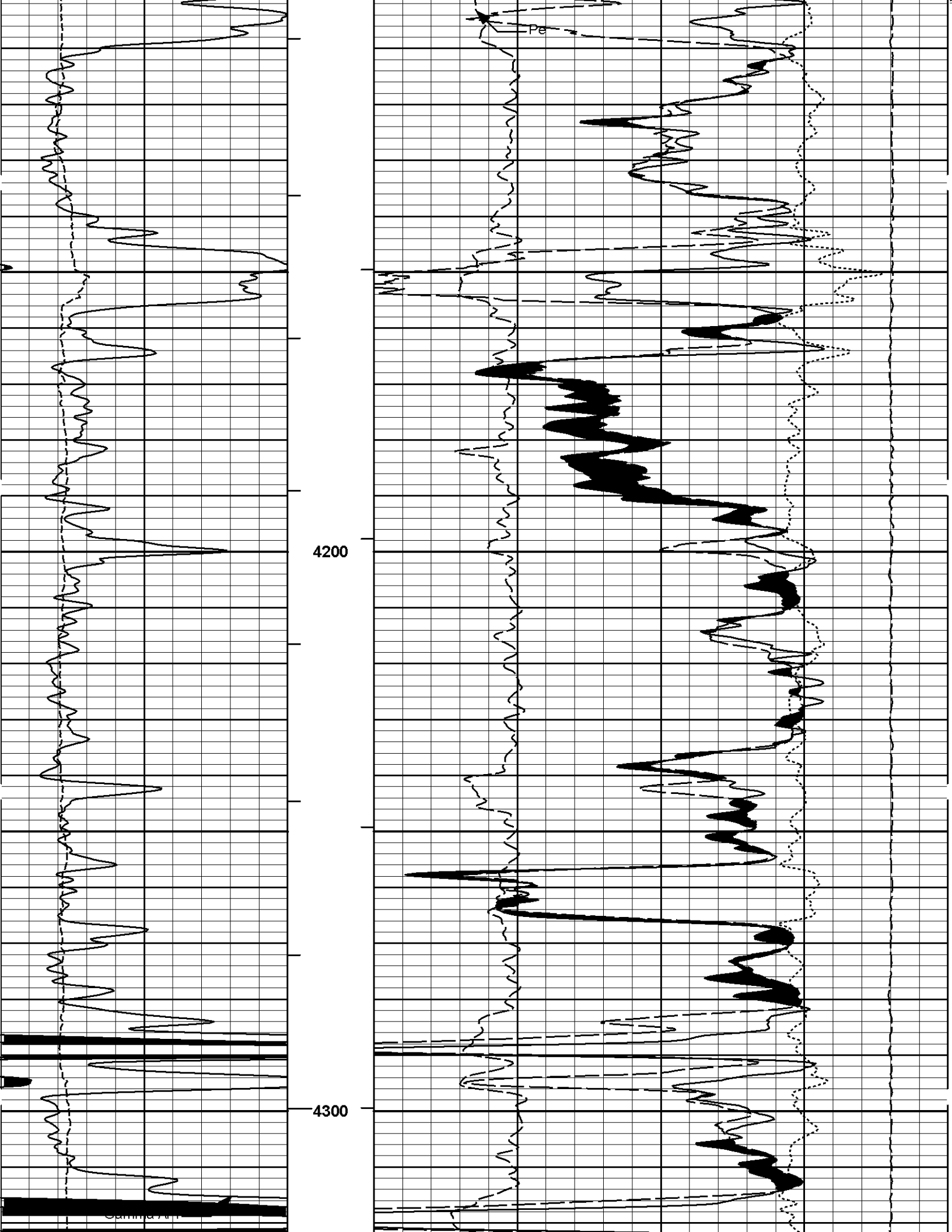
4100

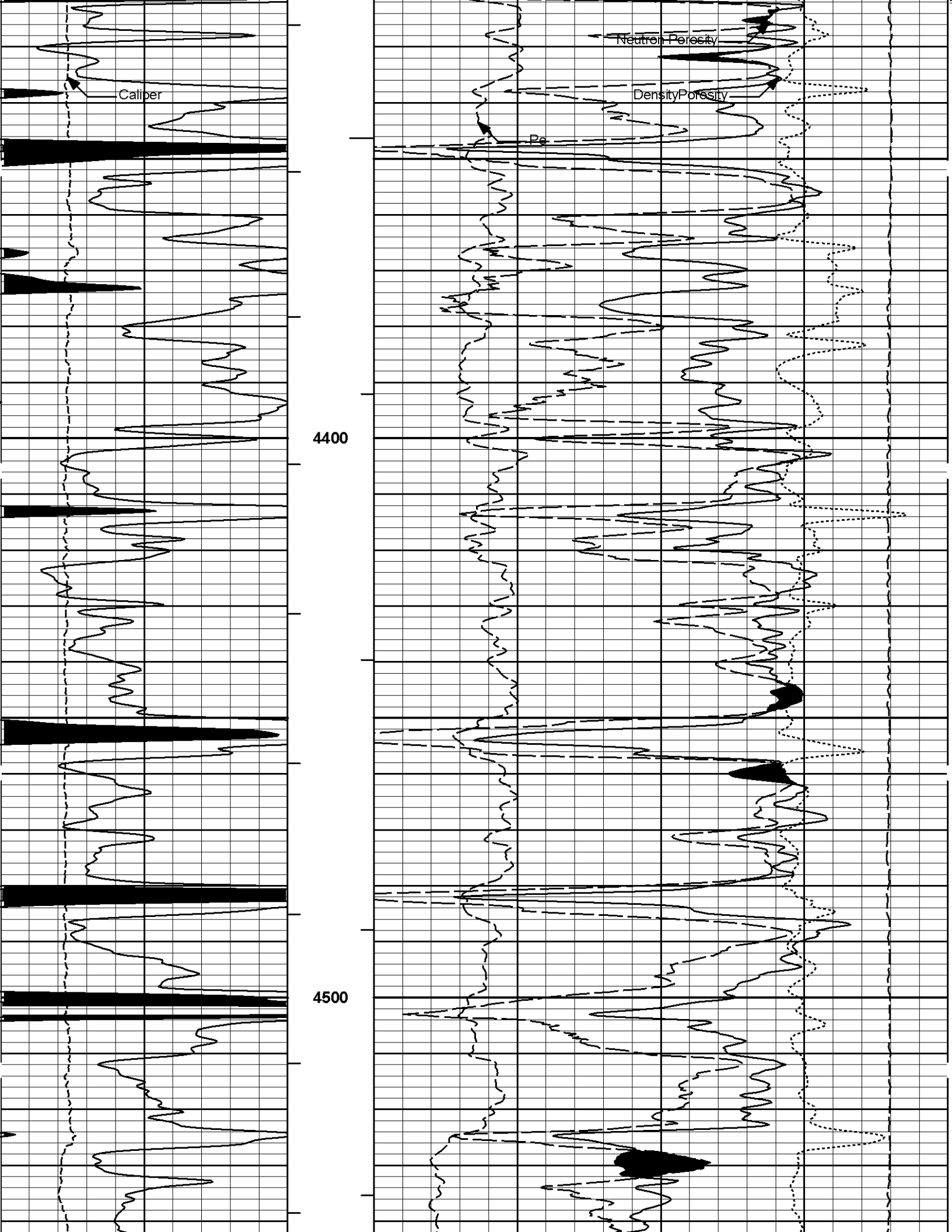
Gamma API

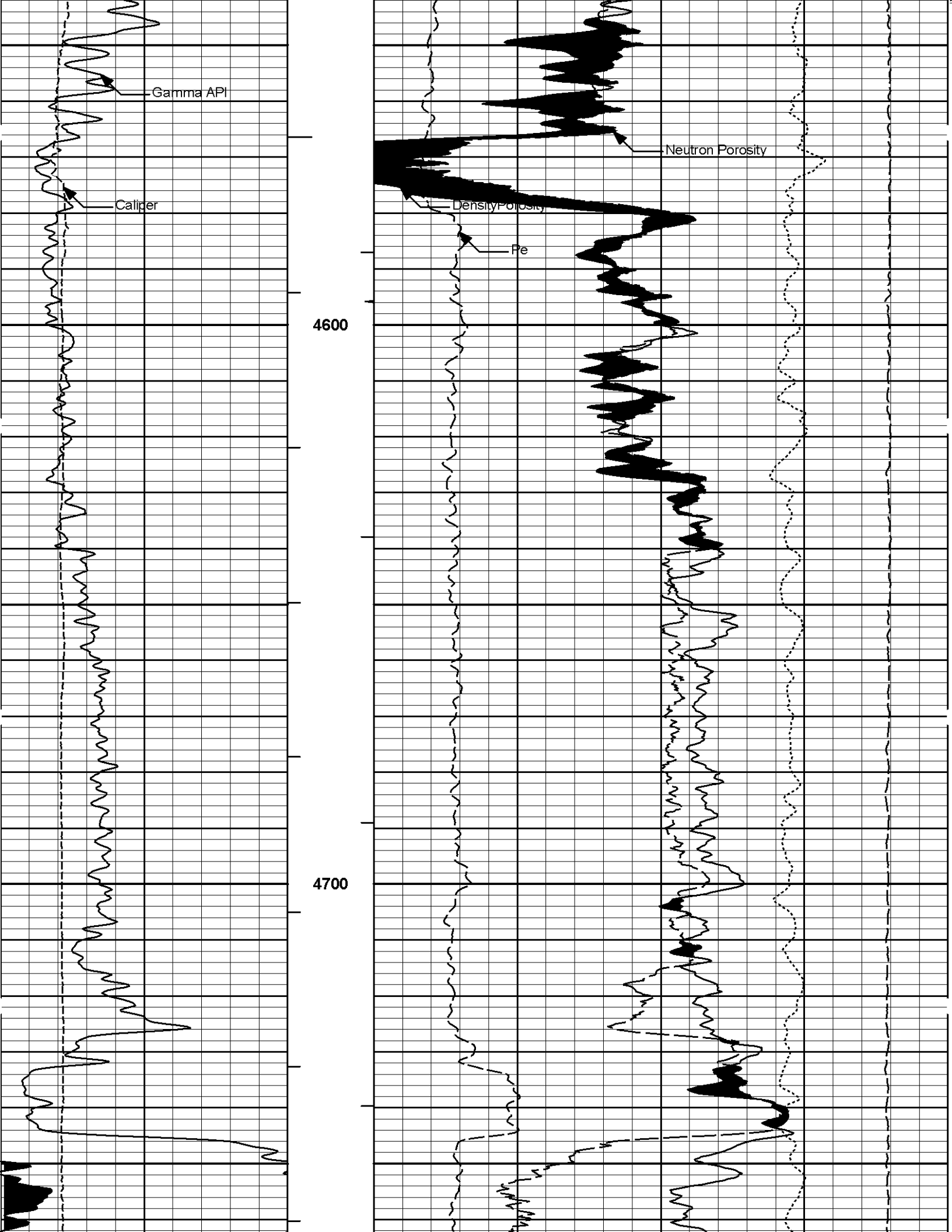
Caliper

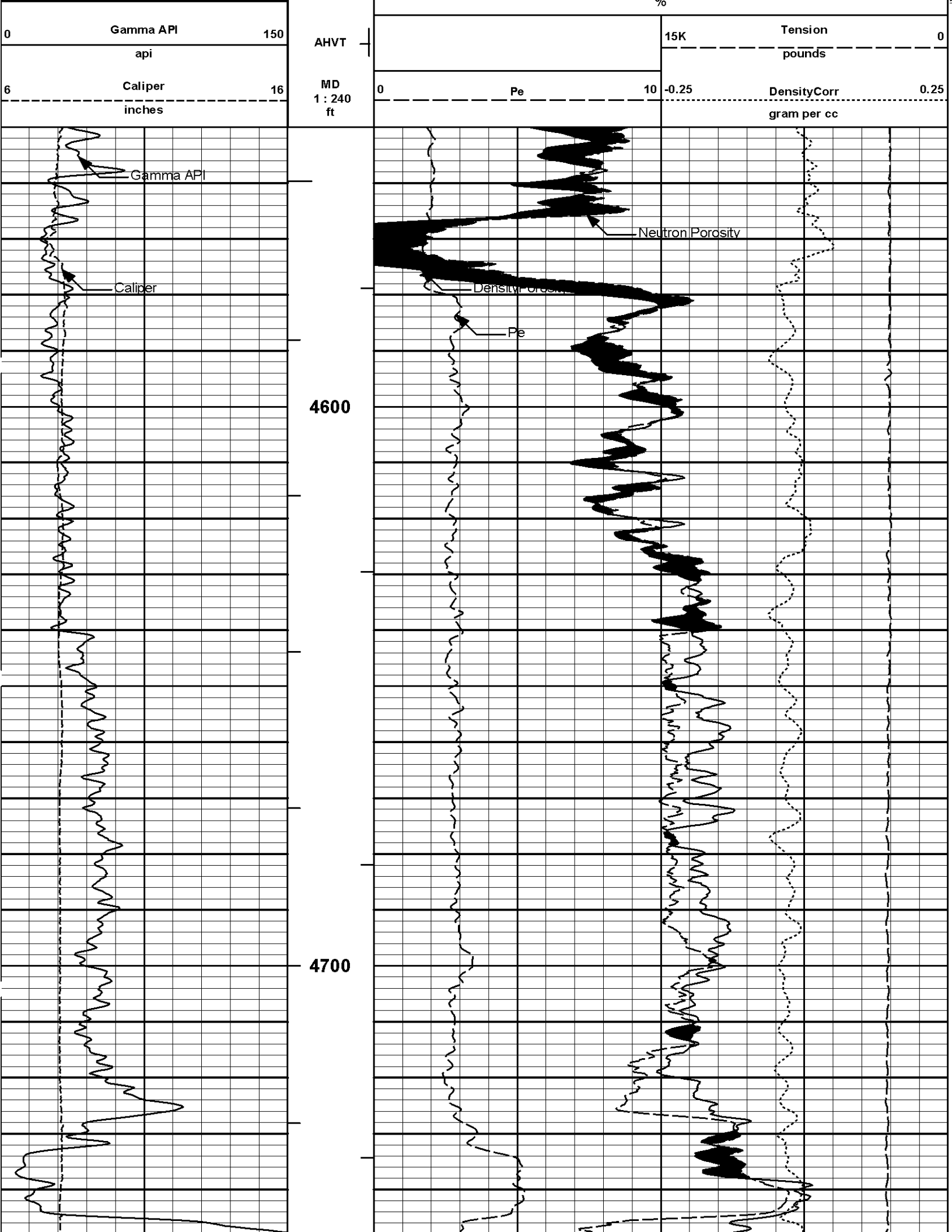
Neutron Porosity

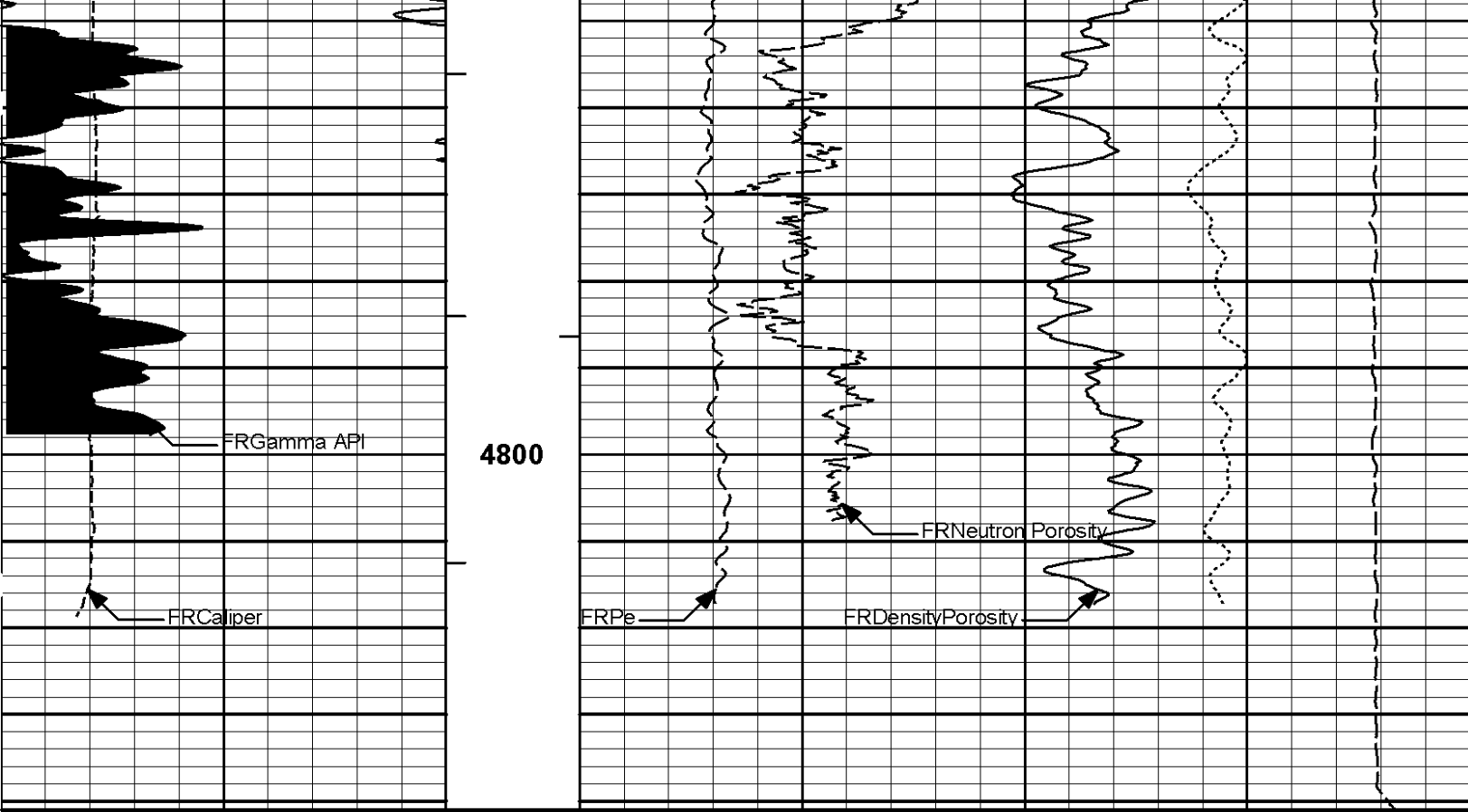
Density Porosity











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

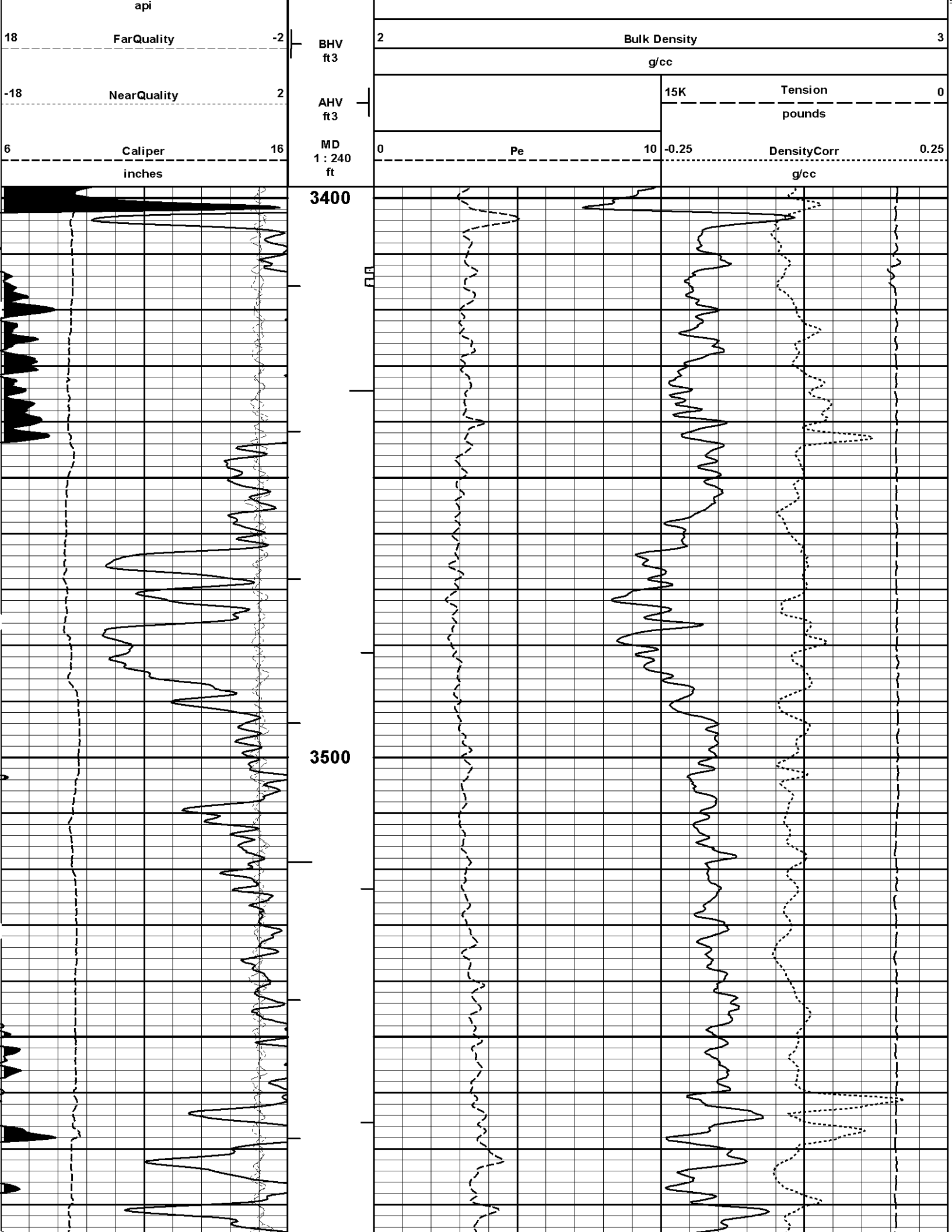
Plot Time: 16-May-12 00:19:07
 Plot Range: 4550 ft to 4841 ft
 Data: TALBOTT_7_9\Well Based\DAQ-0001-003\
 Plot File: \\PORO\Poro_IQ_5_REP_LIB

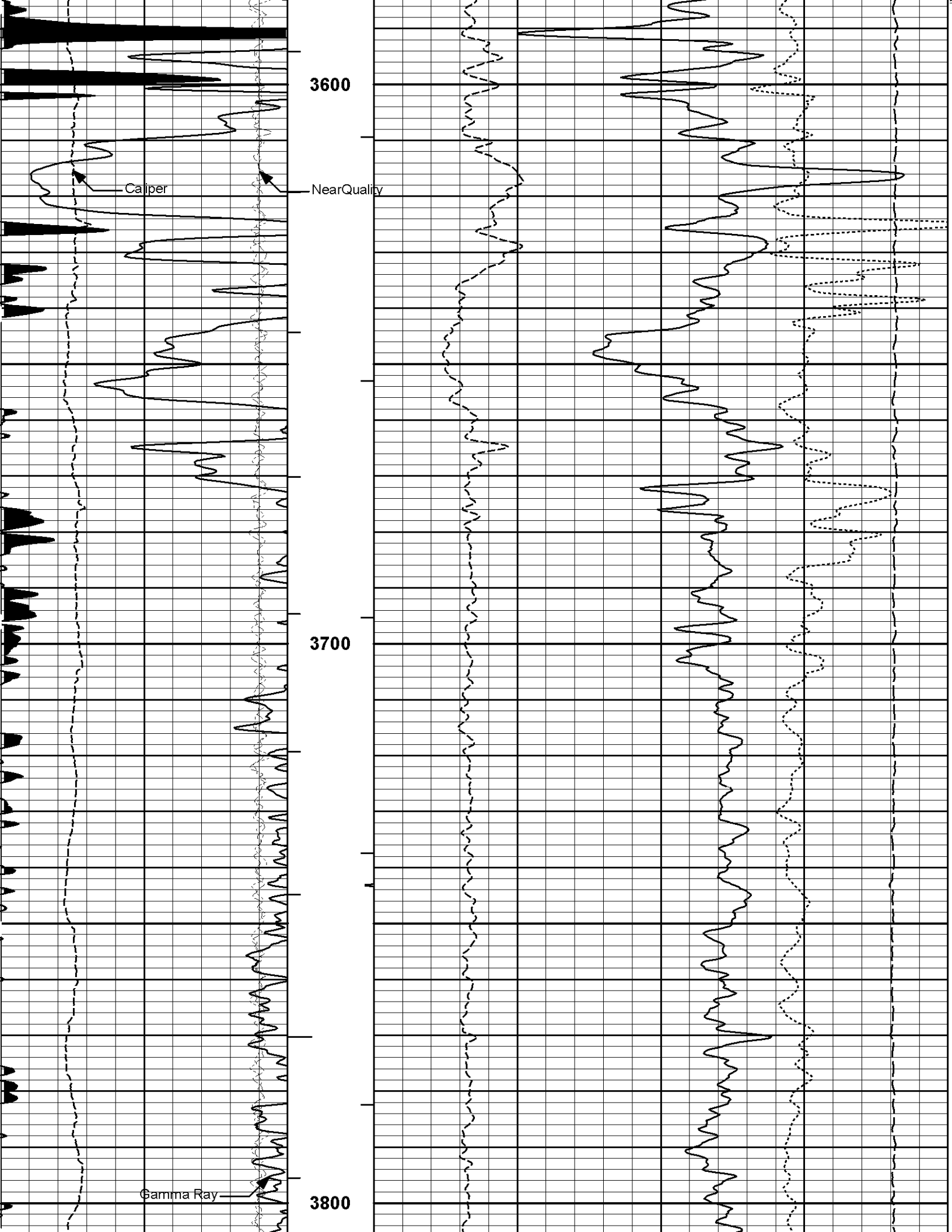
REPEAT SECTION

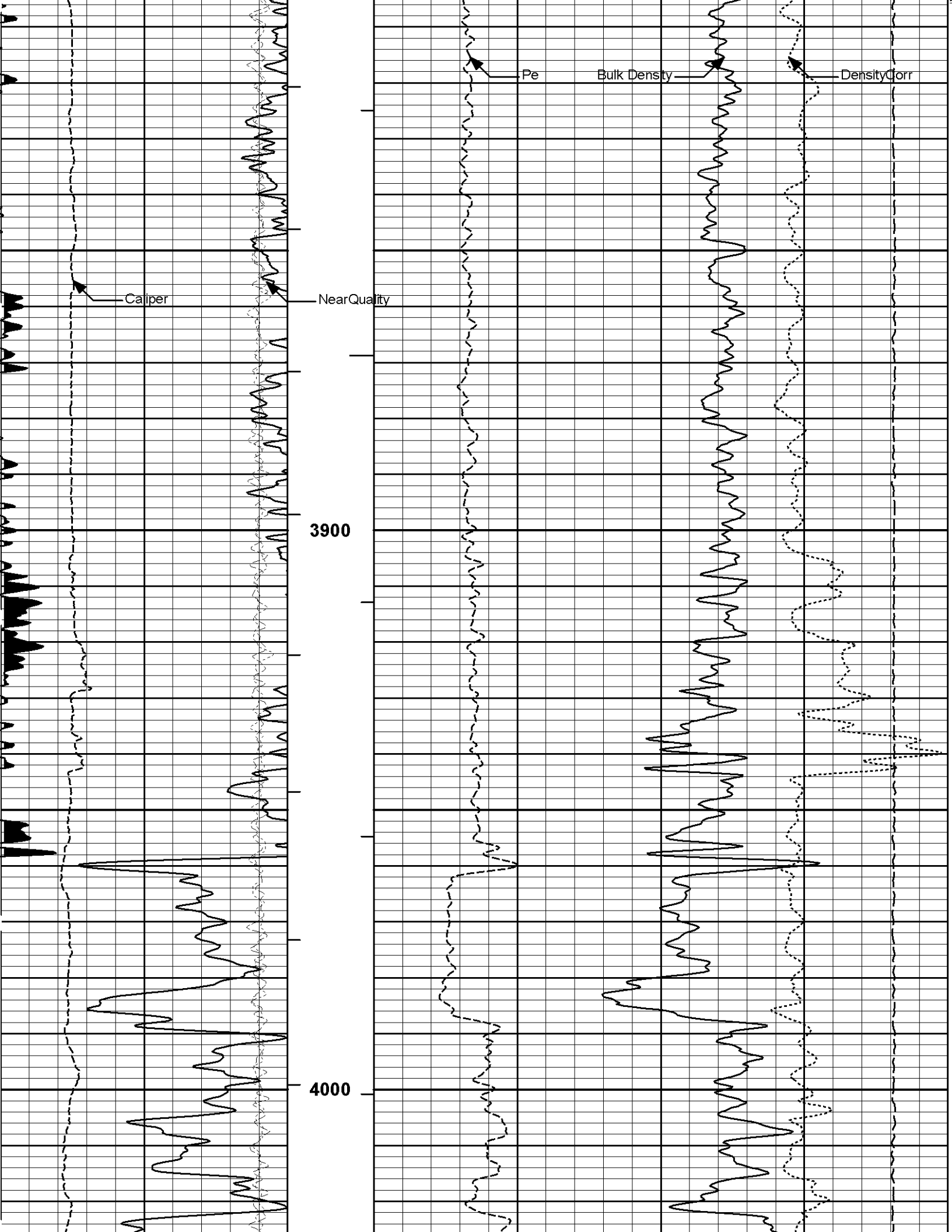
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 Plot Range: 3398 ft to 4845 ft
 Data: TALBOTT_7_9\Well Based\DAQ-0001-004\
 Plot File: \\-LOCAL-TALBOTT_7_9\0001 SP-GTET-DSN-SDL-ACRT-CH\PORO\BULKD_5_MAIN_LIB

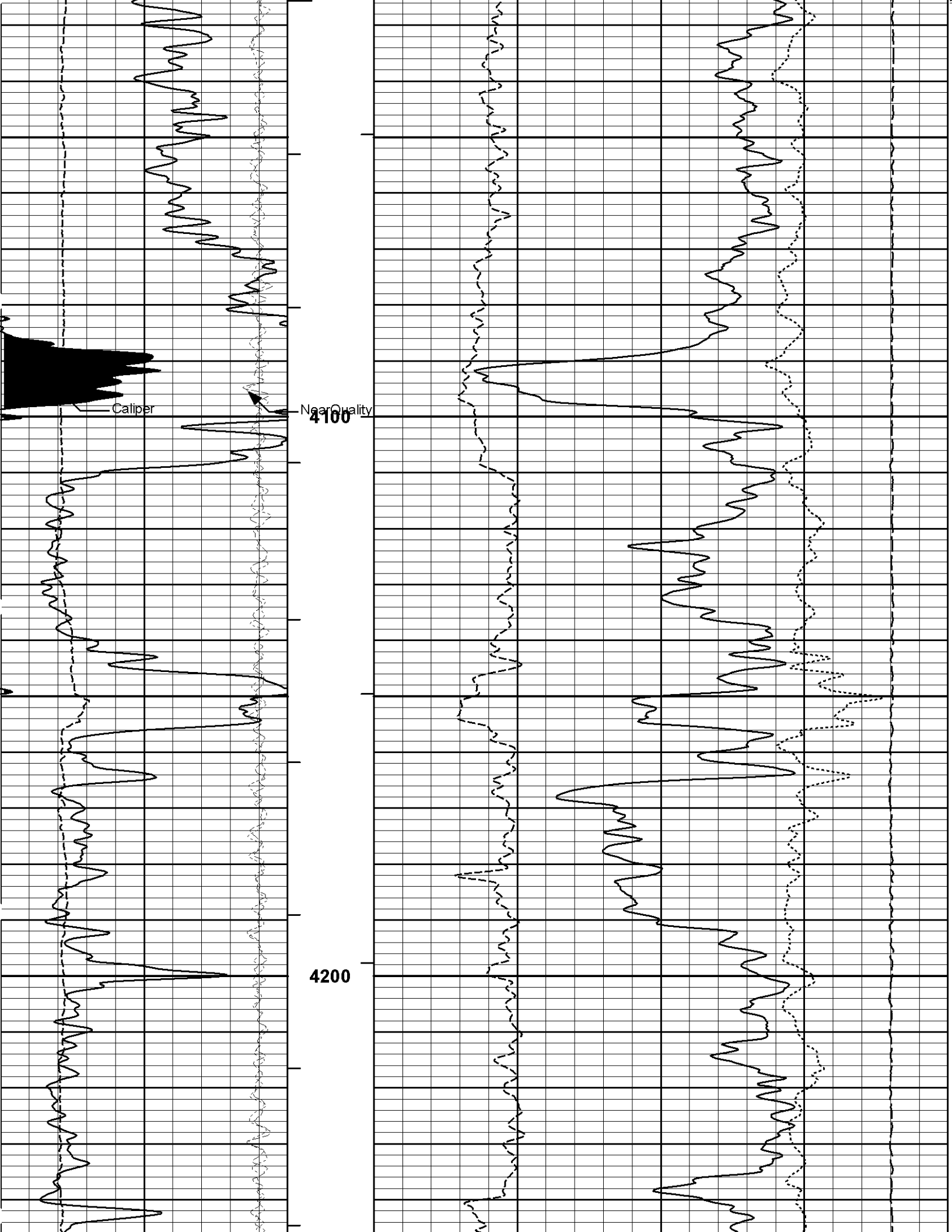
5 INCH MAIN LOG

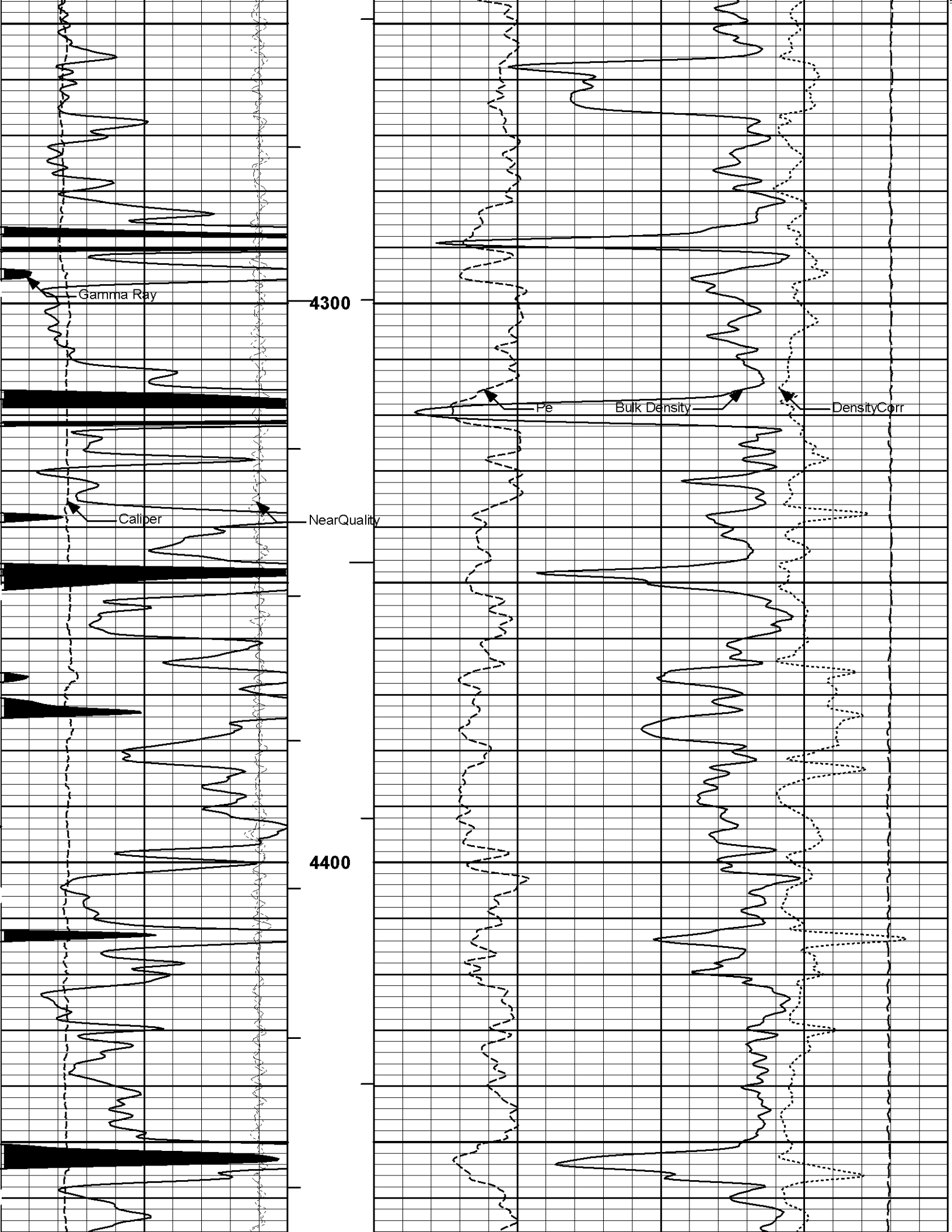
SHALE	Tension Pull
0	Tension Pull
Gamma Ray	10
150	0

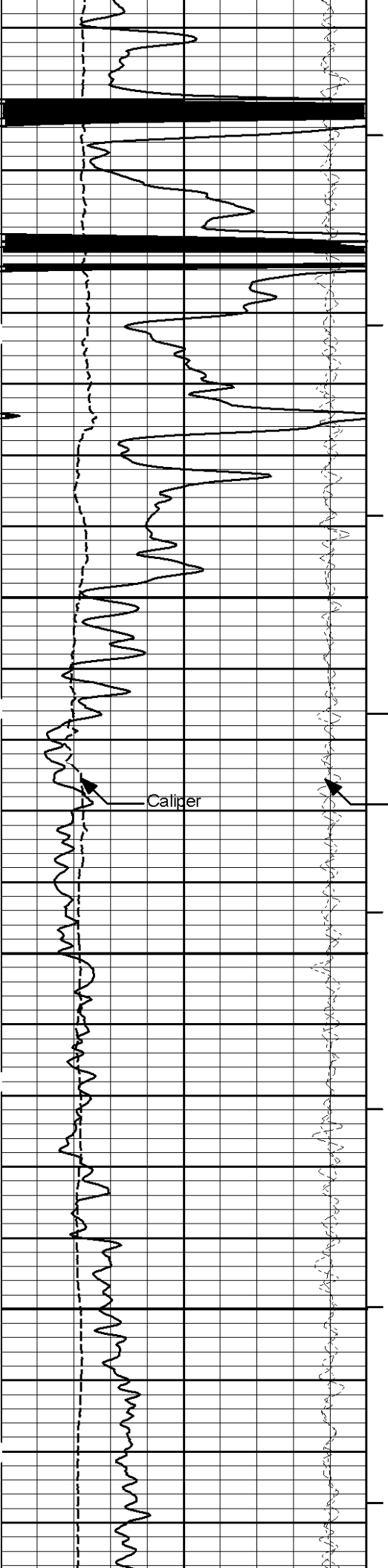






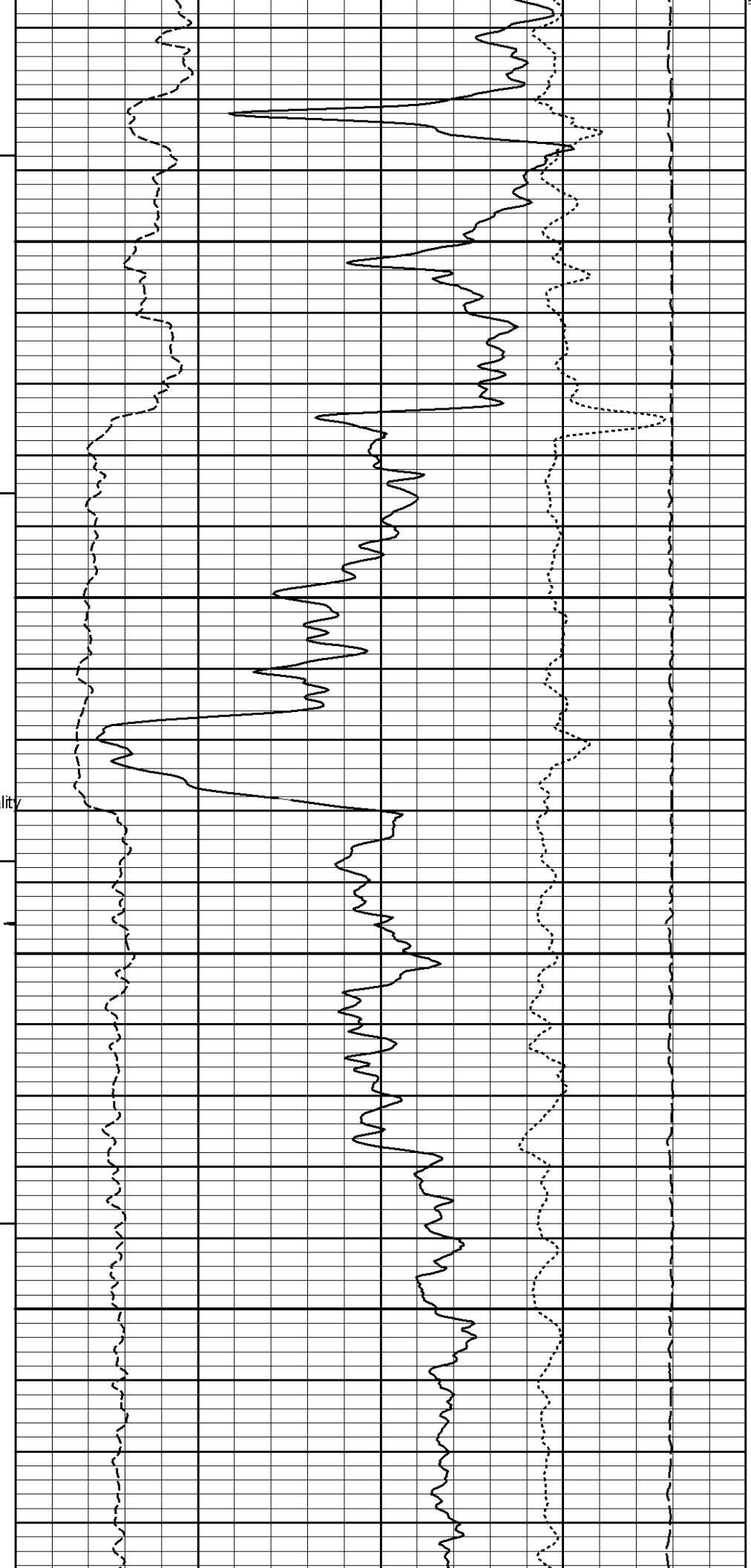


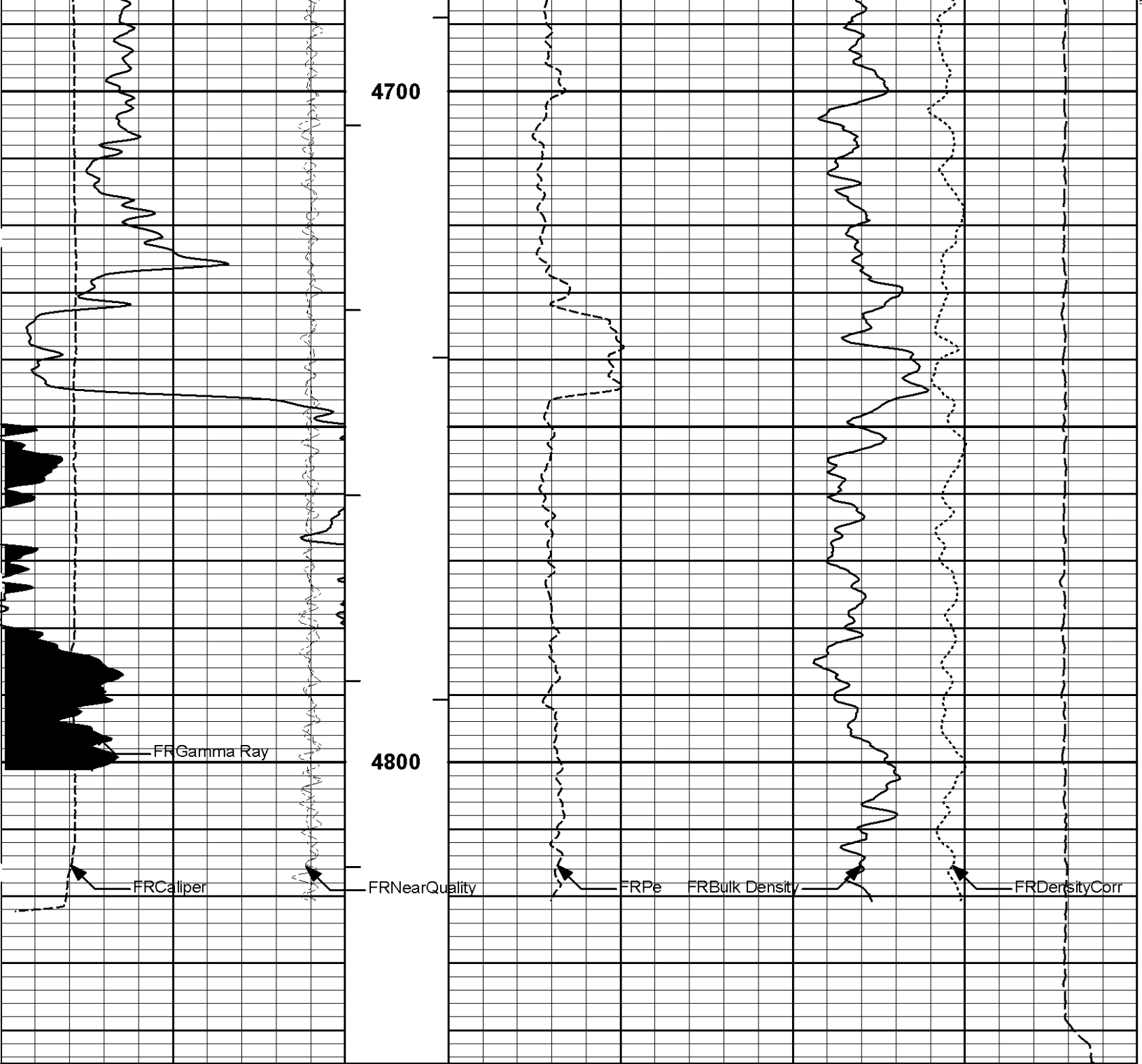




4500

4600





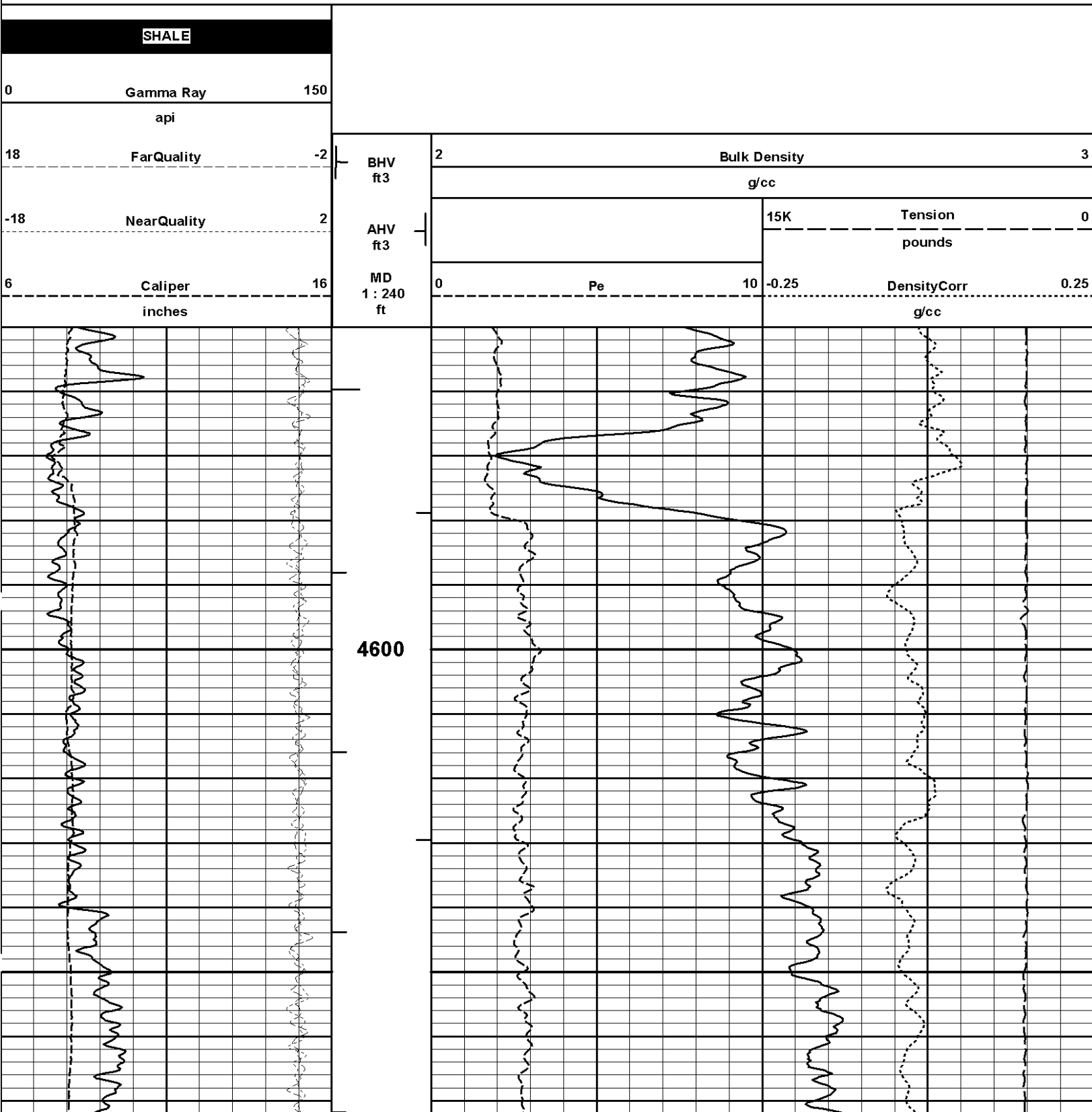
6	Caliper	16	MD	0	10	-0.25	DensityCorr	0.25
	inches		1 : 240				g/cc	
-18	NearQuality	2	AHV			15K	Tension	0
			ft3				pounds	
18	FarQuality	-2	BHV	2	Bulk Density			3
			ft3		g/cc			
0	Gamma Ray	150	Tension Pull					
	api		10					
	SHALE		Tension Pull					

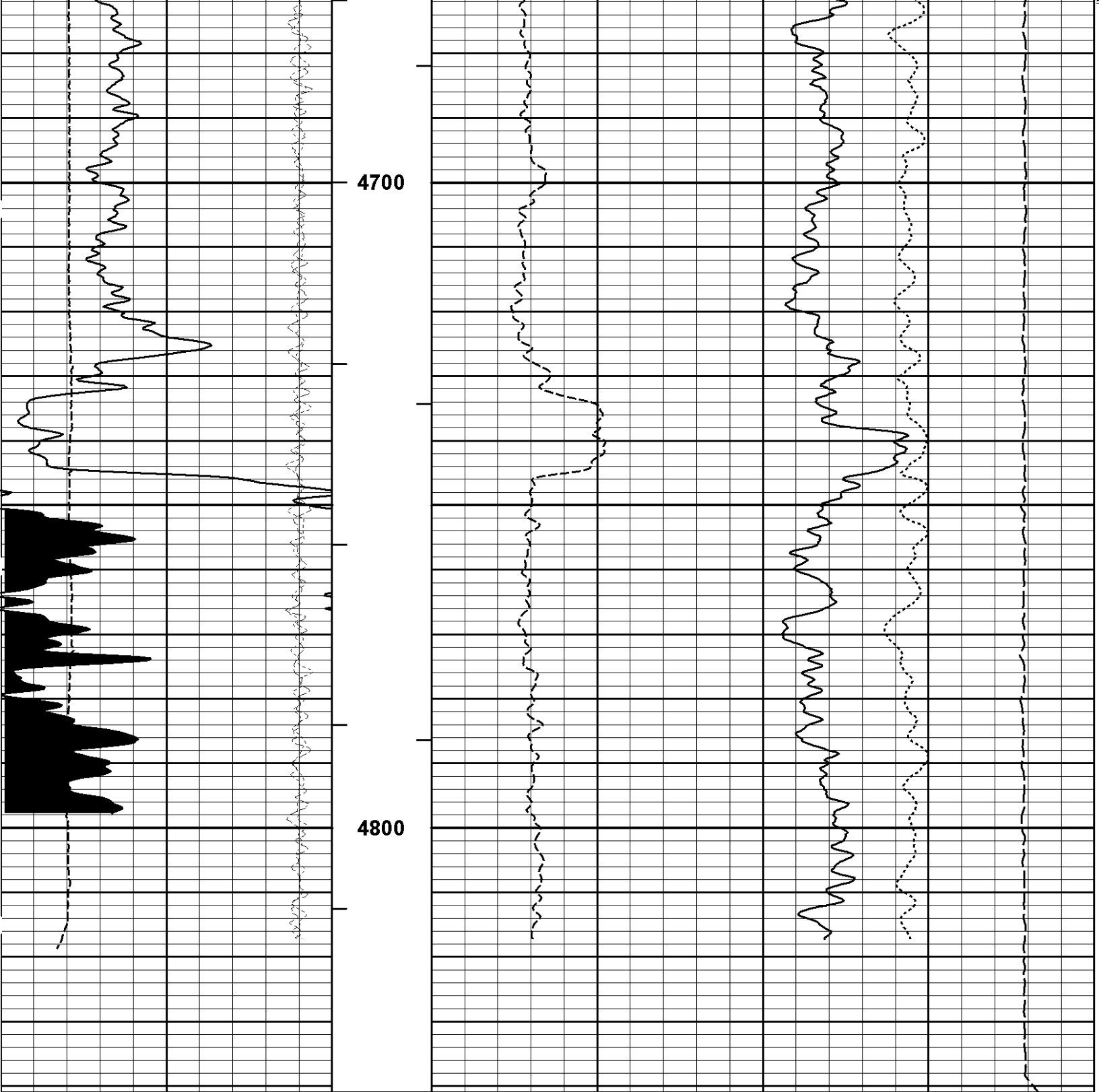
Plot Time: 16-May-12 00:19:08
 Plot Range: 3398 ft to 4845 ft
 Data: TALBOTT_7_9\Well Based\DAQ-0001-004\
 Plot Date: 16-May-12 00:19:08

5 INCH MAIN LOG

Plot Time: 16-May-12 00:19:09
 Plot Range: 4550 ft to 4841 ft
 Data: TALBOTT_7_9\Well Based\DAQ-0001-003\
 Plot File: \\-LOCAL-TALBOTT_7_9\0001 SP-GTET-DSN-SDL-ACRT-CH\PORO\BULKD_5_REP_LIB

REPEAT SECTION





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

ACRt Sonde-
15059 S8385
200.00 lbs

Ø 3.625 in →

← Mud Resistivity @ 13.44 ft
← ACRt @ 9.46 ft

14.22 ft

Cabbage Head-
TRK696
10.00 lbs

Ø 3.625 in ↘
Ø 6.000 in →

0.58 ft

0.58 ft

0.00 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	52.59	300.00	
SP	SP Sub	001	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	11019643	174.00	9.69	30.64	60.00	
DCNT	DSN Decentralizer	11005605	6.60	5.13	*	33.97	300.00
SDLT	Spectral Density Tool	I43_M296	360.00	10.81	19.83	60.00	
SDLP	Density Insite Pad	P84	65.00	2.55	*	22.04	60.00
MICP	Microlog Pad	M296	8.00	1.00	*	22.33	60.00
ACRt	Array Compensated True Resistivity Instrument Section	I5059_S8385	50.00	5.03	14.80	300.00	
RSOF	Regal Standoff 6.75in	1	20.00	0.52	*	17.21	300.00
ACRt	Array Compensated True Resistivity	I5059_S8385	200.00	14.22	0.58	300.00	
CBHD	Cabbage Head	TRK696	10.00	0.58	0.00	300.00	
Total			1,148.60	54.51			

* Not included in Total Length and Length Accumulation.

Data: TALBOTT_7_9\0001 SP-GTET-DSN-SDL-ACRt-CH\IDLE Date: 15-May-12 22:18:44

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11048627	Reference Calibration Date:	15-May-12 17:50:17
Engineer:	T. HYDE	Calibration Date:	15-May-12 17:53:19
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Calibrator Source S/N: TB146
 Calibrator API Reference: 265.00 api
 Equivalent Calibrator API Reference: 269.6 api

Measurement	Measured	Calibrated	Units
Background	207.7	210.4	api
Background + Calibrator	474.0	480.0	api
Calibrator	266.3	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11048627	Reference Calibration Date:	15-May-12 17:53:19
Engineer:	T. HYDE	Calibration Date:	15-May-12 17:56:03
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Calibrator Source S/N: TB146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Field Verification	Shop	Field	Units
Background	210.4	212.2	api
Background + Calibrator	480.0	483.7	api
Calibrator	269.6	271.5	api

Shop	Field	Difference	Tolerance
269.6	271.5	-1.9	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11019643	Reference Calibration Date: 21-Apr-12 12:06:35
Engineer: T. HYDE	Calibration Date: 21-Apr-12 12:28:27
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Logging Source S/N: 696

Tank Serial Number: LIBERAL_NEUTRON

Reference value assigned to Tank: 51.680

Snow Block S/N: 696

Calibration Tank Water Temperature: 67 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.945	0.947	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):	0.2105	0.2110	0.0004	+/- 0.0020
Calibrated Ratio:	9.71	9.73	0.014	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0778	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 - 11019643	Reference Calibration Date: 21-Apr-12 12:28:27
Engineer: T. HYDE	Calibration Date: 15-May-12 17:58:38
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Logging Source S/N: 696

Snow Block S/N: 696

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0778	0.0780	0.0002	+/- 0.0150

PASS/FAIL SUMMARY

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - I43_M296 Reference Calibration Date: 22-Mar-12 14:41:37
Engineer: T. HYDE Calibration Date: 22-Apr-12 00:49:09
Software Version: WL INSITE R3.4.2 (Build 2) Calibration Version: 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3452.47	-3702.59	-7000.00 - -1000.00
Pad Gain	0.0003831	0.0003847	0.000200 - 0.000600
Arm Offset	-2502.15	-2617.38	-5000.00 - 3000.00
Arm Gain	0.0005098	0.0005334	0.000300 - 0.000700
Arm Power	-0.000004714	-0.000006520	-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)	2.09	2.00	-0.09	+/- 0.20
Medium Ring (in)	3.83	3.75	-0.08	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.58	6.50	-0.08	+/- 0.20
Medium Ring (in)	8.28	8.25	-0.03	+/- 0.20
Large Ring (in)	15.16	15.00	-0.16	+/- 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 - I43_M296 Reference Calibration Date: 22-Apr-12 00:49:09
Engineer: T. HYDE Calibration Date: 15-May-12 18:01:36
Software Version: WL INSITE R3.4.2 (Build 2) Calibration Version: 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.65	-0.10	+/- 0.10
Ring Diameter	8.25	8.17	-0.08	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
Diameter Check: Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - P84 Reference Calibration Date: 11-Apr-12 13:56:22
Engineer: T. HYDE Calibration Date: 11-Apr-12 13:56:22

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: 2.598

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0462	1.0389	0.90 - 1.10
Near Dens Gain	1.0057	1.0075	0.90 - 1.10
Near Peak Gain	0.9943	1.0135	0.90 - 1.10
Near Lith Gain	0.9772	0.9892	0.90 - 1.10
Far Bar Gain	1.0138	1.0155	0.90 - 1.10
Far Dens Gain	0.9998	1.0014	0.90 - 1.10
Far Peak Gain	0.9947	0.9978	0.90 - 1.10
Far Lith Gain	0.9770	0.9777	0.90 - 1.10
Near Bar Offset	-0.2675	-0.2002	NONE
Near Dens Offset	0.0744	0.0577	NONE
Near Peak Offset	0.1459	-0.0154	NONE
Near Lith Offset	0.2497	0.1527	NONE
Far Bar Offset	-0.0254	-0.0376	NONE
Far Dens Offset	0.0752	0.0637	NONE
Far Peak Offset	0.1008	0.0778	NONE
Far Lith Offset	0.2148	0.2113	NONE
Near Bar Background	844.29	849.59	700 - 1450
Near Dens Background	281.80	282.40	230 - 480
Near Peak Background	121.68	122.61	100 - 210
Near Lith Background	152.10	151.31	125 - 260
Far Bar Background	523.83	529.11	450 - 900
Far Dens Background	203.98	206.45	175 - 345
Far Peak Background	80.54	81.34	70 - 140
Far Lith Background	84.68	85.31	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.686	1.684	-0.002	+/- 0.015
Pe	2.591	2.555	-0.036	+/- 0.150
ALUMINUM				
Density (g/cc)	2.598	2.598	0.000	+/- 0.01500
Pe	3.133	3.124	-0.009	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0007	+/- 0.0110	0.0019	+/- 0.0140
Magnesium Block	-0.0003	+/- 0.0110	0.0002	+/- 0.0140
Aluminum Block	0.0002	+/- 0.0110	0.0004	+/- 0.0140
Resolution	9.16	6.00 - 11.50	9.01	6.00 - 11.50
Lithium Modifier (D+D+D+)	1.100	1.000 - 0.700	0.900	0.900 - 1.700

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 - P84	Reference Calibration Date: 11-Apr-12 14:16:41
Engineer: T. HYDE	Calibration Date: 15-May-12 17:51:09
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Pad Temperature: 72.9 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1405.911	1407.155	1.244	15.140
Far (B+D+P+L) cps	902.206	905.090	2.884	16.328
Near Resolution	9.16	9.51	0.350	0.50
Far Resolution	9.01	9.79	0.780	1.00

PASS/FAIL SUMMARY

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

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11048627						
Gamma Ray Calibrator	269.6	271.5	-----	-1.9	+/- 9.00	api
DSNT-11019643						
Snow-Block Porosity	0.0778	0.0780	-----	-0.0002	+/- 0.0150	decp
SDLT-I43_M296						
Pad Extension	3.75	3.65	-----	0.10	+/-0.10	in
Ring Diameter	8.25	8.17	-----	0.080	+/-0.15	in
SDLT Pad-P84						
Near(B+D+P+L)	1405.911	1407.155	-----	-1.244	+/-15.140	cps
Far(B+D+P+L)	902.206	905.090	-----	-2.884	+/-16.328	cps

Data: TALBOTT_7_9\0001 SP-GTET-DSN-SDL-ACRT-CHIDLE

Date: 15-May-12 23:24:48

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	9.300	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	2.000	ohmm
SHARED	TRM	Temperature of Mud	75.0	degF
SHARED	CSD	Logging Interval is Cased?	No	
SHARED	ICOD	AHV Casing OD	5.500	in
SHARED	ST	Surface Temperature	75.0	degF
SHARED	TD	Total Well Depth	4840.00	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	DNNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	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	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt Sonde	TPOS	Tool Position	Eccentered	

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: TALBOTT_7_9\0001 SP-GTET-DSN-SDL-ACRT-CH1DLE

Date: 15-May-12 23:25:00

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	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	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
ACRt Sonde				
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

F1R1	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	

SDLT Pad

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
NLUU	Near Lithology Unfiltered	22.46	BLK	0.250

NELC	Near Lithology Omittered	22.40	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	22.04	NO	
FHV	Far Detector High Voltage	22.04	NO	
ITMP	Instrument Temperature	22.04	NO	
DDHV	Detector High Voltage	22.04	NO	

Microlog Pad

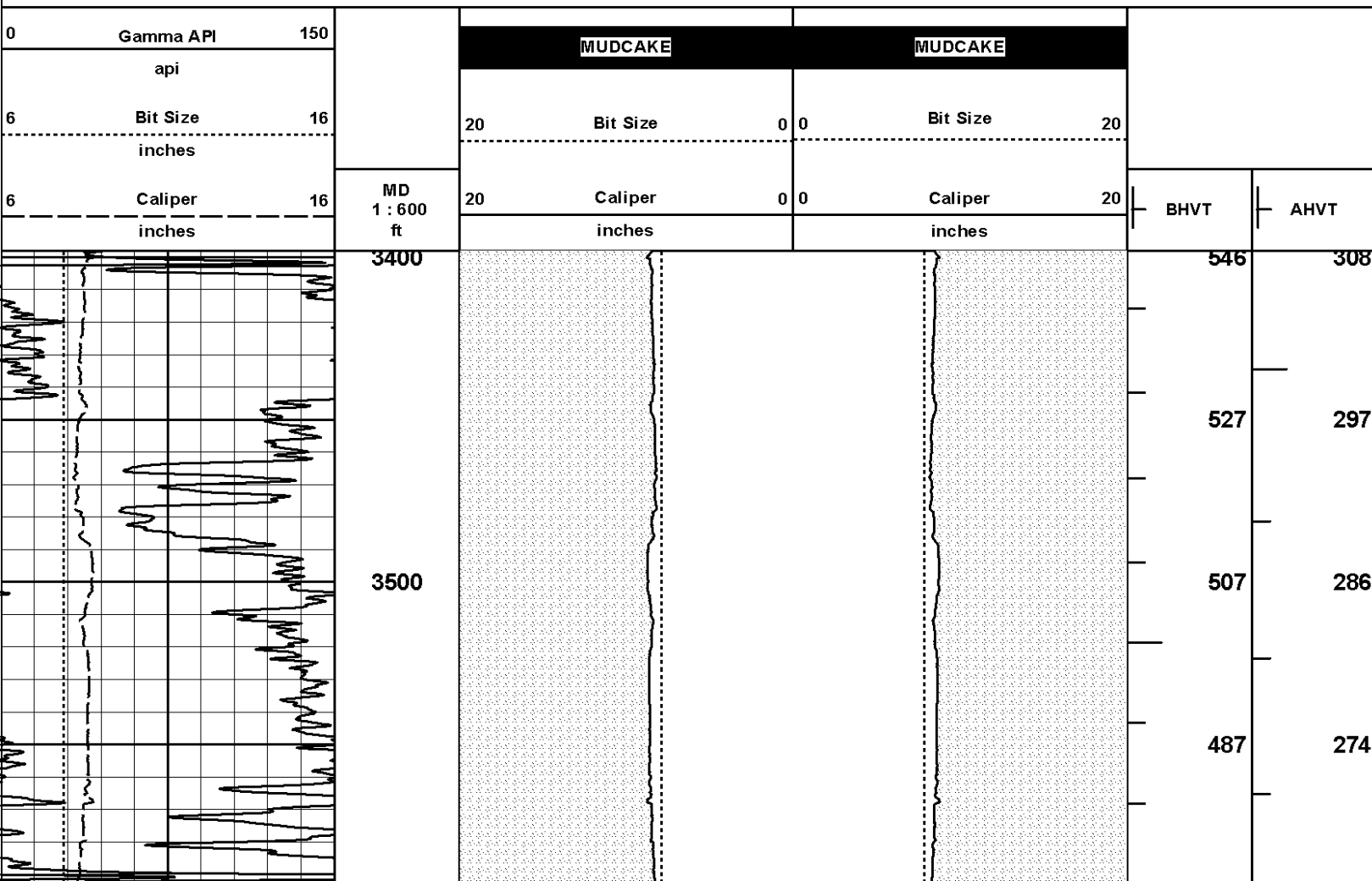
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750

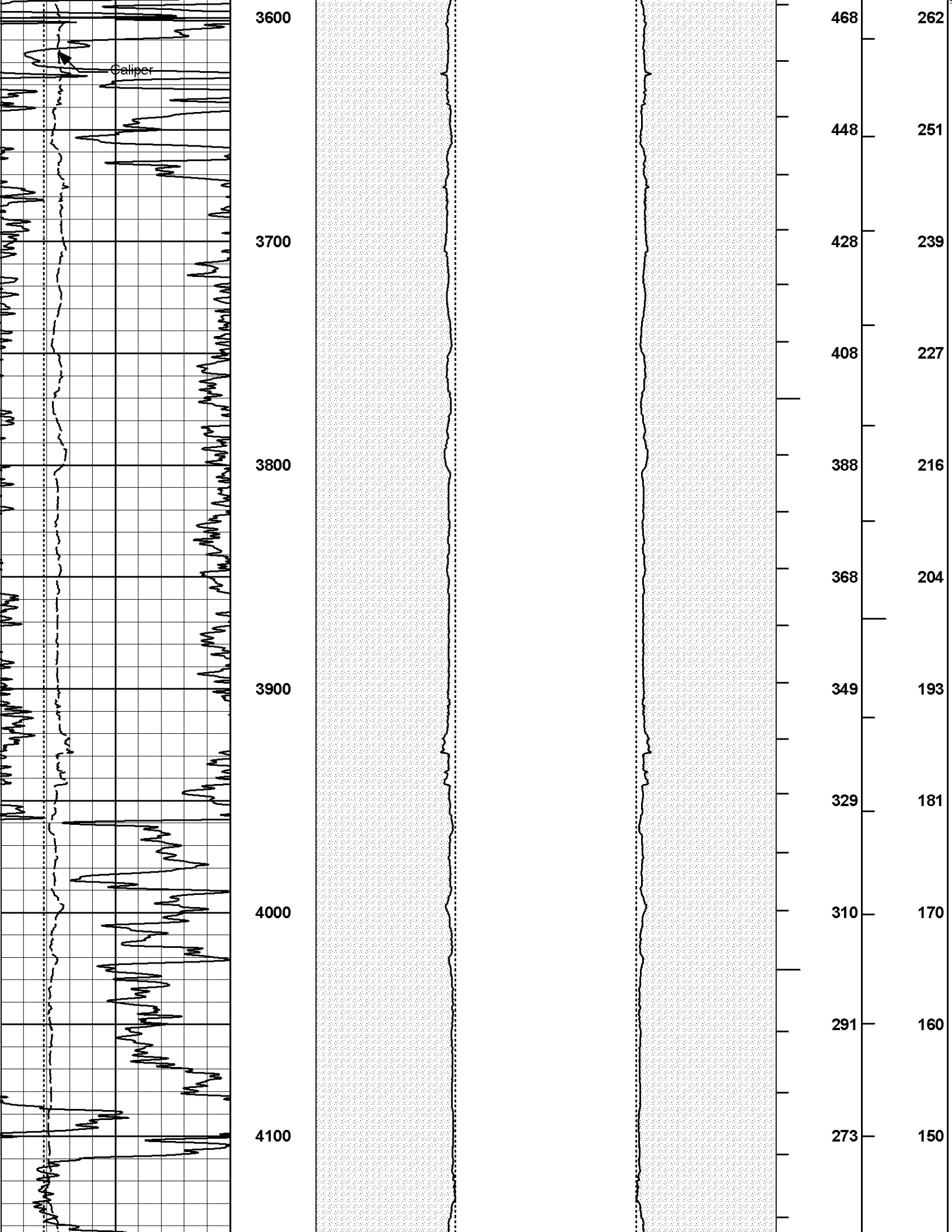
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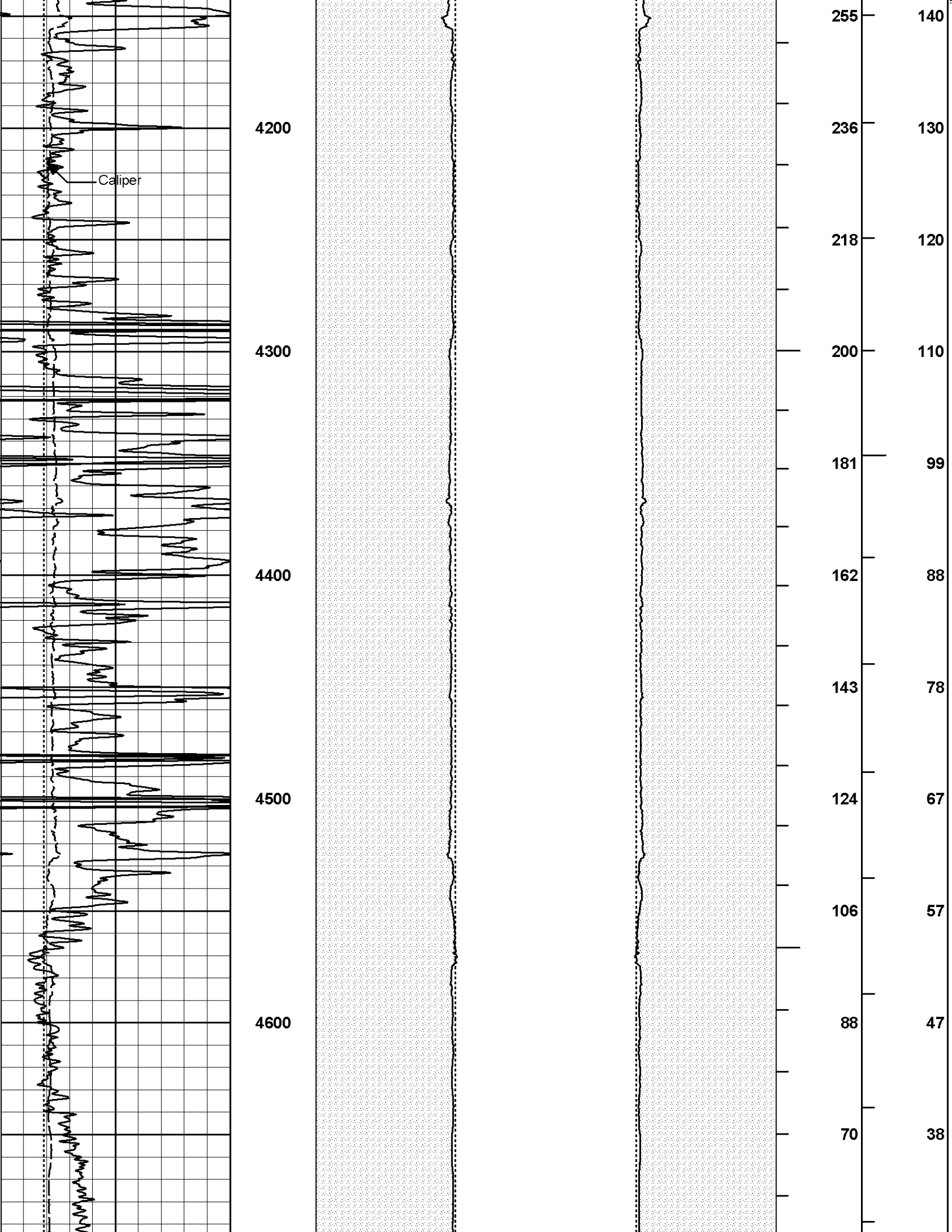
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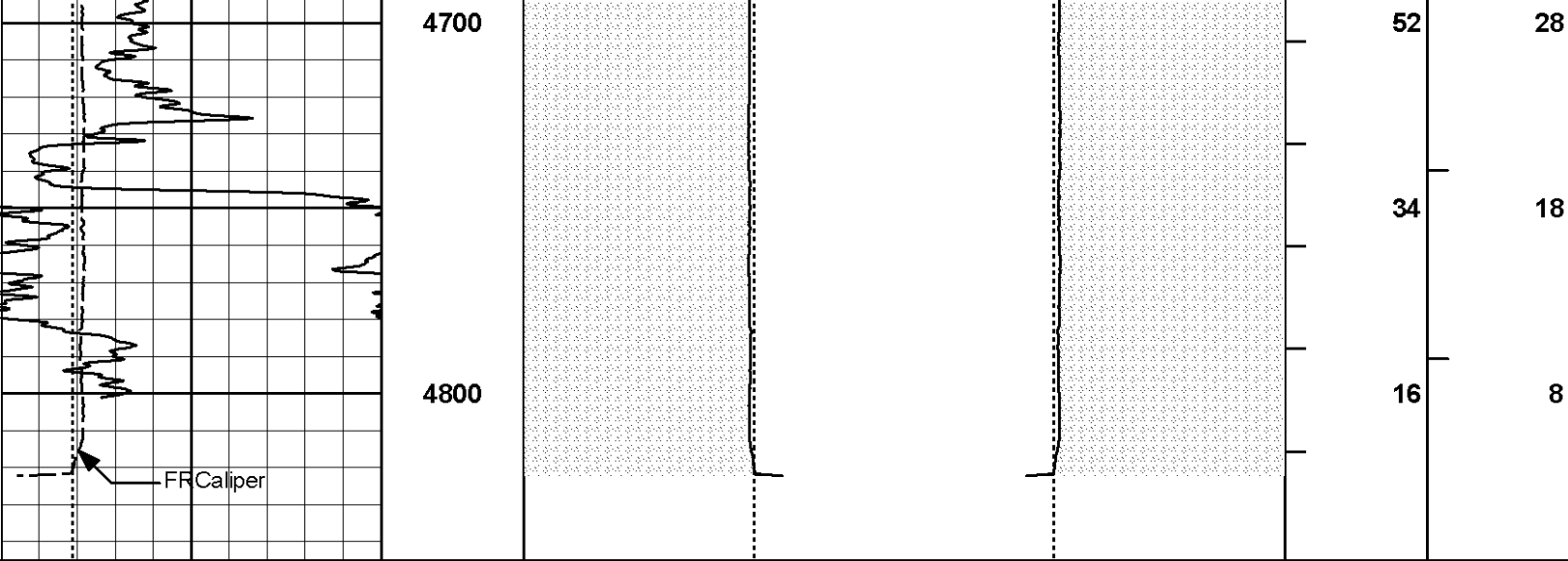
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 Plot File: \\-LOCAL-TALBOTT_7_9\0001 SP-GTET-DSN-SDL-ACRT-CH\PORO\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT









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

Plot Time: 16-May-12 00:19:11
 Plot Range: 3398 ft to 4845 ft
 Data: TALBOTT_7_9\Well Based\DAQ-0001-004\
 Plot File: \\-LOCAL-TALBOTT_7_9\0001 SP-GTET-DSN-SDL-ACRT-CH\PORO\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT

COMPANY	VAL ENERGY, INC.		
WELL	TALBOT 7-9		
FIELD	SOUTH RHODES		
COUNTY	BARBER	STATE	KANSAS
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY LOG	