



Weatherford

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG**

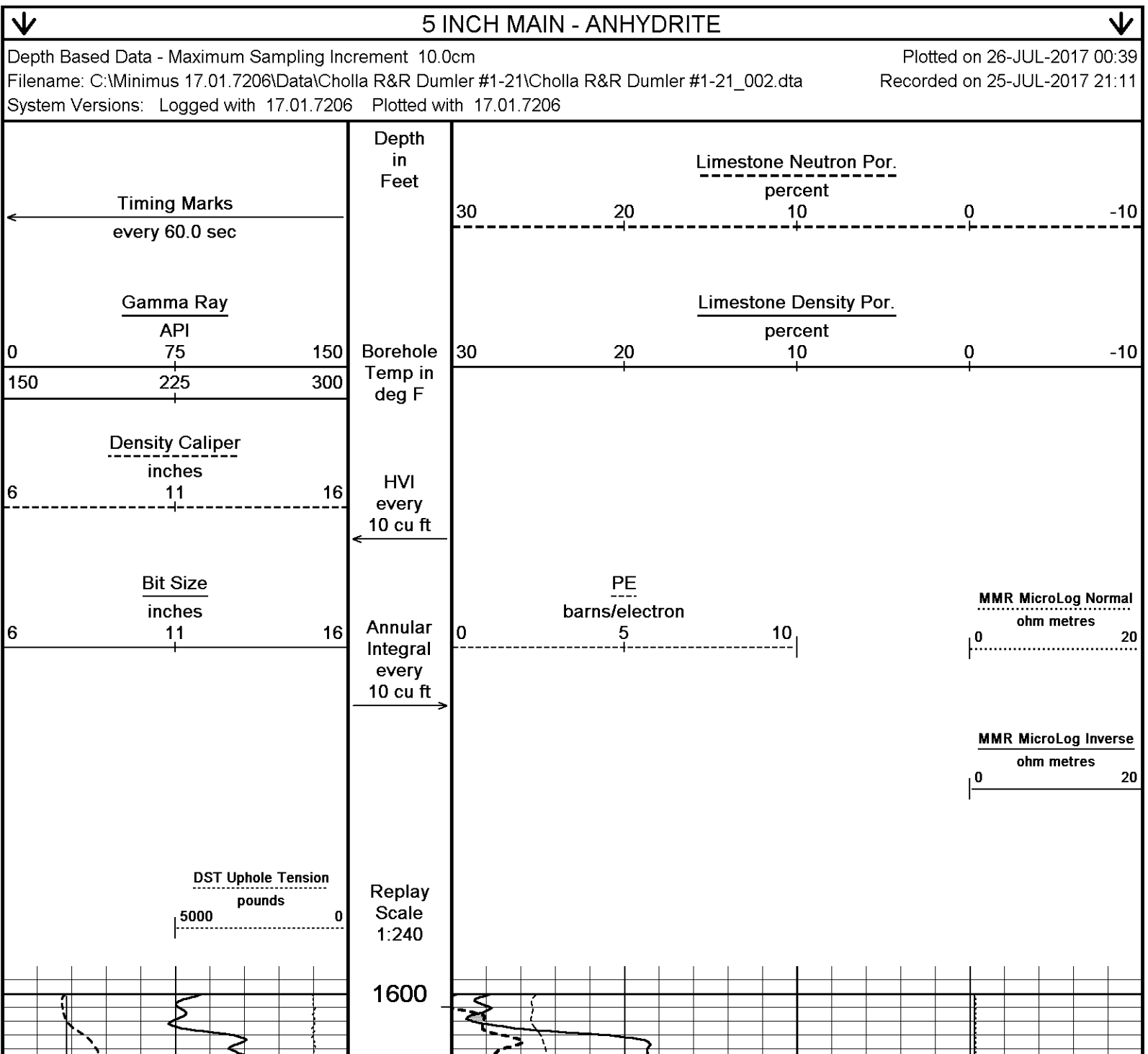
COMPANY				CHOLLA PRODUCTION, LLC.			
WELL				R&R DUMLER #1-21			
FIELD				WILDCAT			
PROVINCE/COUNTY				HODGEMAN			
COUNTRY/STATE				U.S.A. / KANSAS			
LOCATION				1110' FSL & 655' FWL			
SEC 21	TWP 21S	RGE 26W	Other Services		MSS		
Latitude		MAI/MFE					
Longitude							
API Number		15-083-21939					
Permanent Datum GL, Elevation 2469 feet							
Log Measured From KB, 5.00 feet above Permanent Datum							
Drilling Measured From KB							
Date	25-JUL-2017				Elevations:		
Run Number	ONE				KB 2474.00		
Service Order	4558-188222573				DF 2472.00		
Depth Driller	4920.00				GL 2469.00		
Depth Logger	4919.00						
First Reading	4887.00						
Last Reading	3200.00						
Casing Driller	261.00						
Casing Logger	261.00						
Bit Size	7.875						
Hole Fluid Type	CHEMICAL						
Density / Viscosity	9.50 lb/USg		48.00 CP				
PH / Fluid Loss	10.50		8.00 ml/30Min				
Sample Source	FLOWLINE						
Rm @ Measured Temp	0.77 @ 75.0				ohm-m		
Rmf @ Measured Temp	0.62 @ 75.0				ohm-m		
Rmc @ Measured Temp	0.92 @ 75.0				ohm-m		
Source Rmf / Rmc	CALC		CALC				
Rm @ BHT	0.49 @ 119.0		ohm-m				
Time Since Circulation	5 HOURS						
Max Recorded Temp	119.00		deg F				
Equipment / Base	13096		LIB				
Recorded By	ADAM SILL						
Witnessed By	CLAYTON ERICKSON						

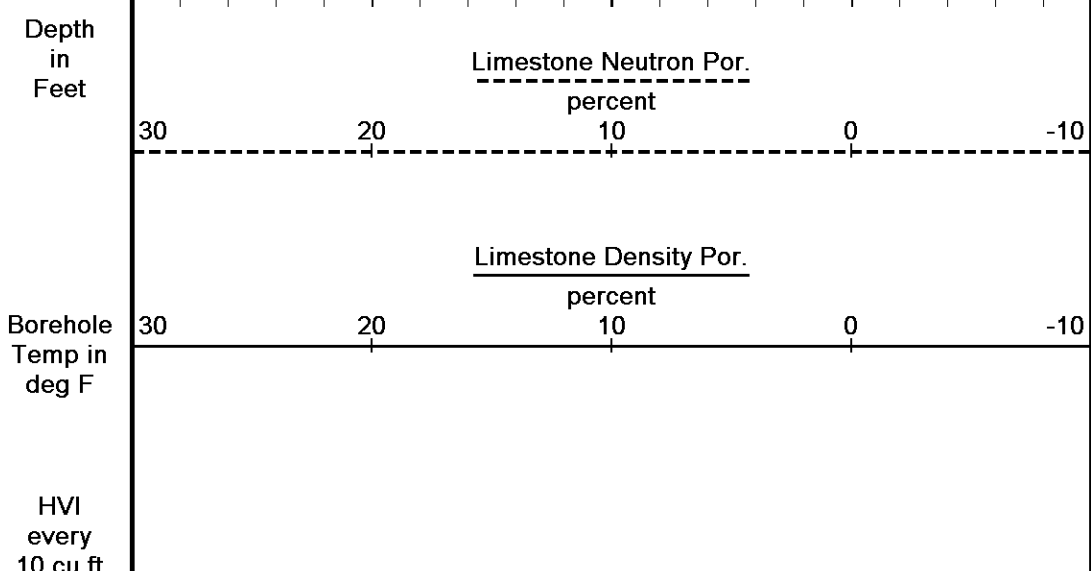
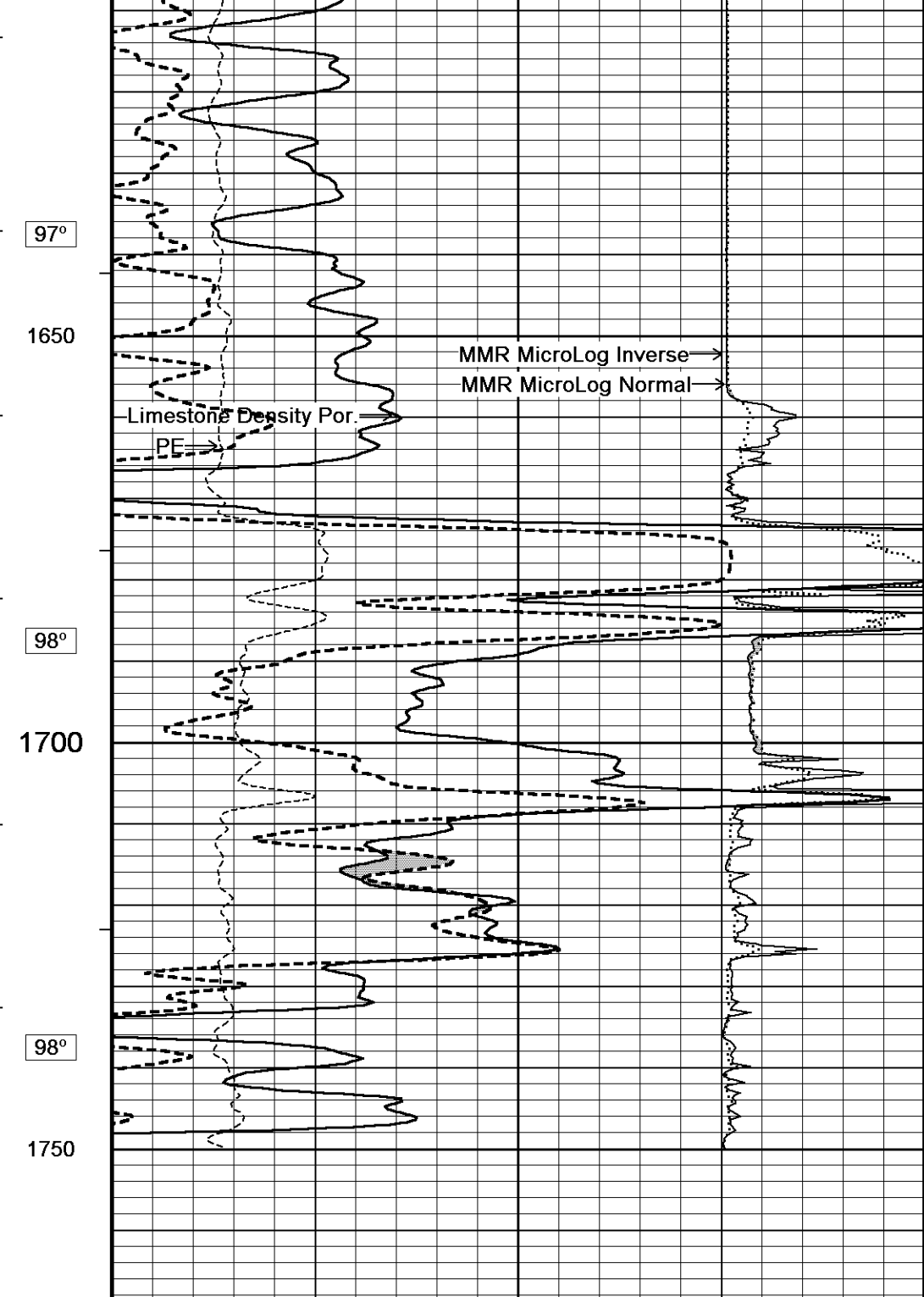
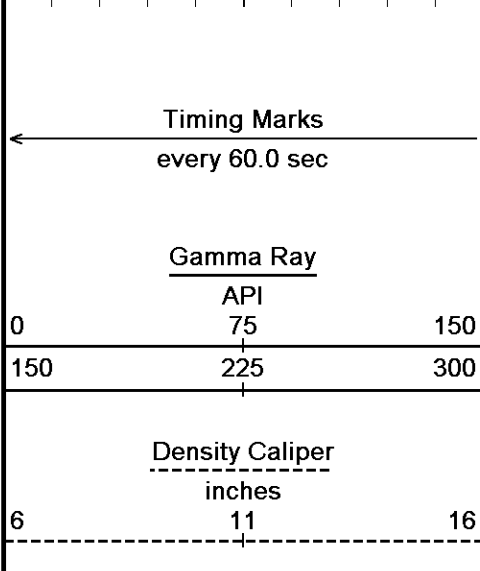
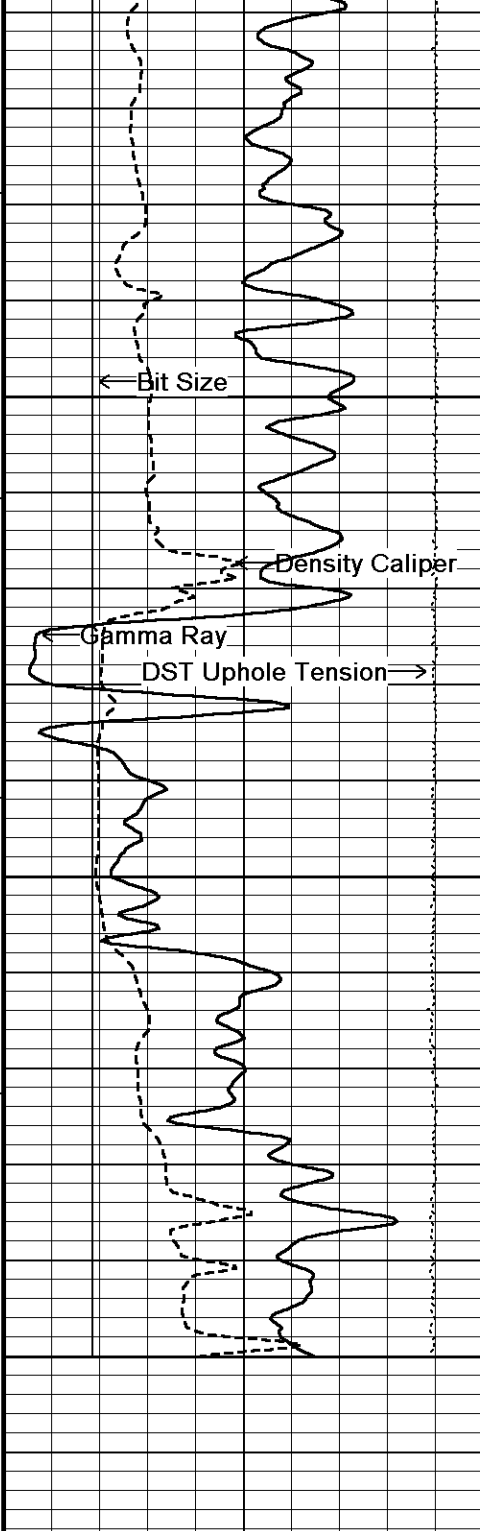
BOREHOLE RECORD					Last Edited: 25-JUL-2017 18:58
Bit Size inches		Depth From feet		Depth To feet	
7.875		261.00		4920.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	8.625	0.00	261.00	24.00	

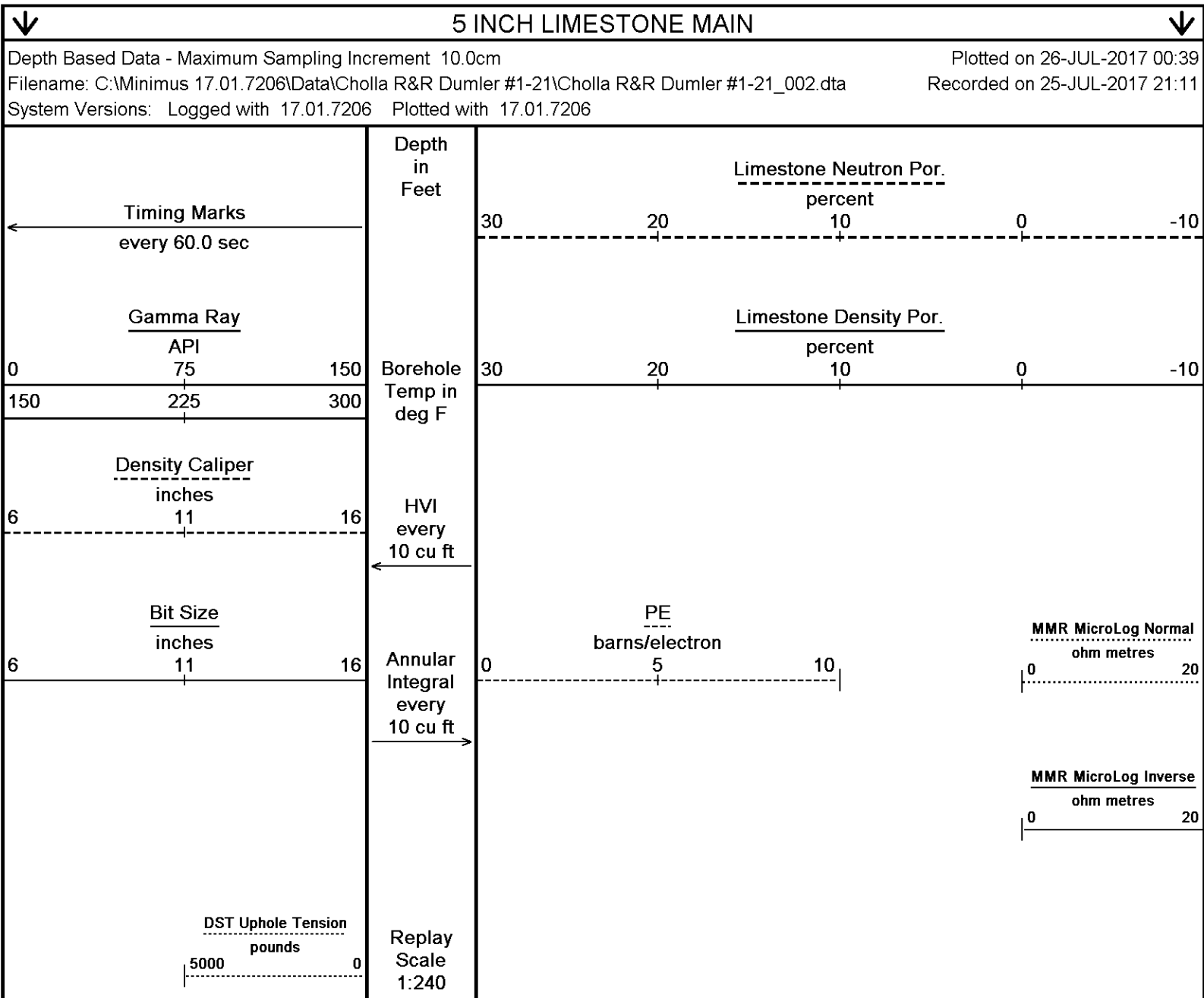
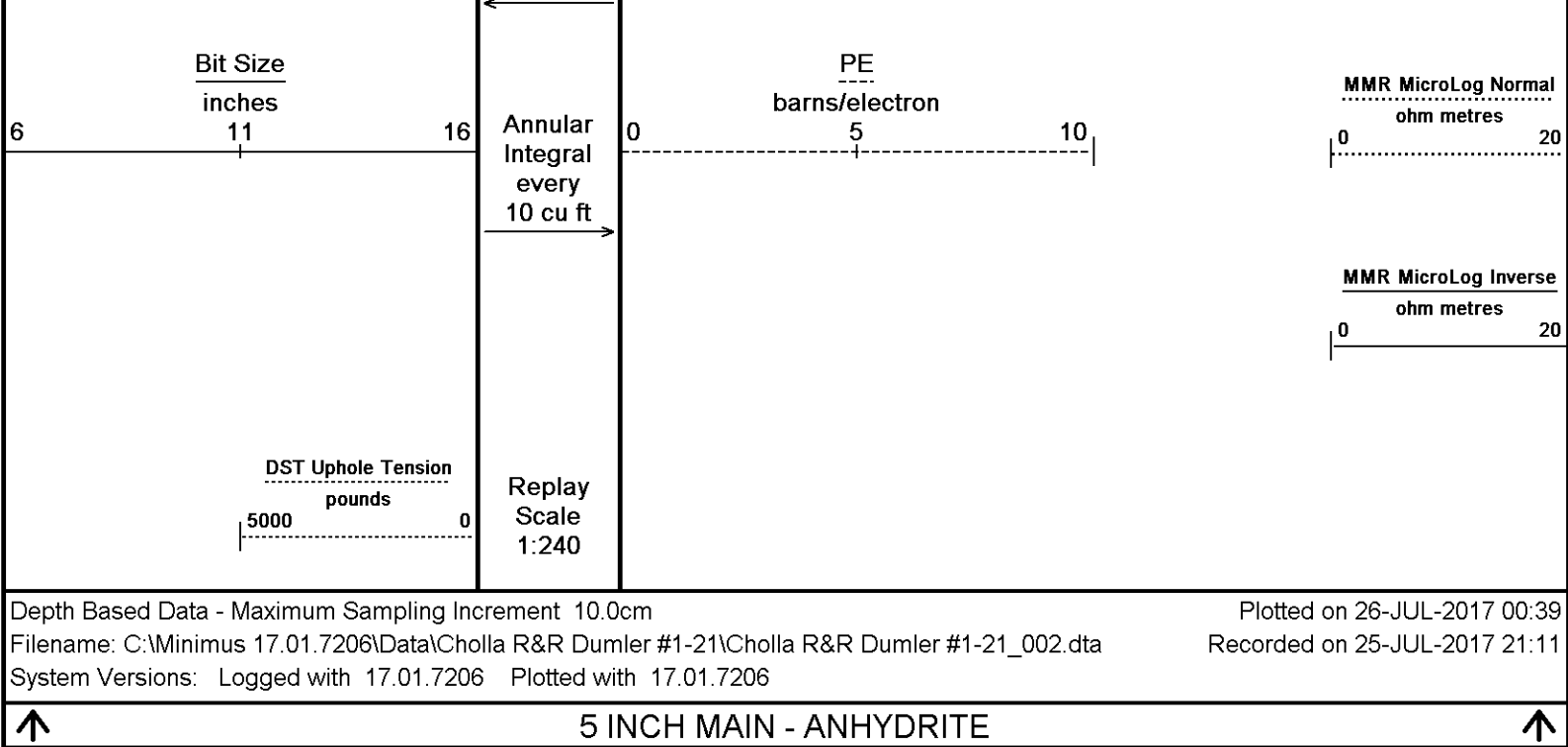
REMARKS
- SOFTWARE ISSUE: WLS 17.01.7206.
- RUN ONE: MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION. - HARDWARE: DUAL BOWSPRING USED ON MDN. 0.5 INCH STANDOFF USED ON MFE. TWO 0.5 INCH STANDOFFS USED ON MSS. 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 2110 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 3200 FEET: 348 CU.FT.

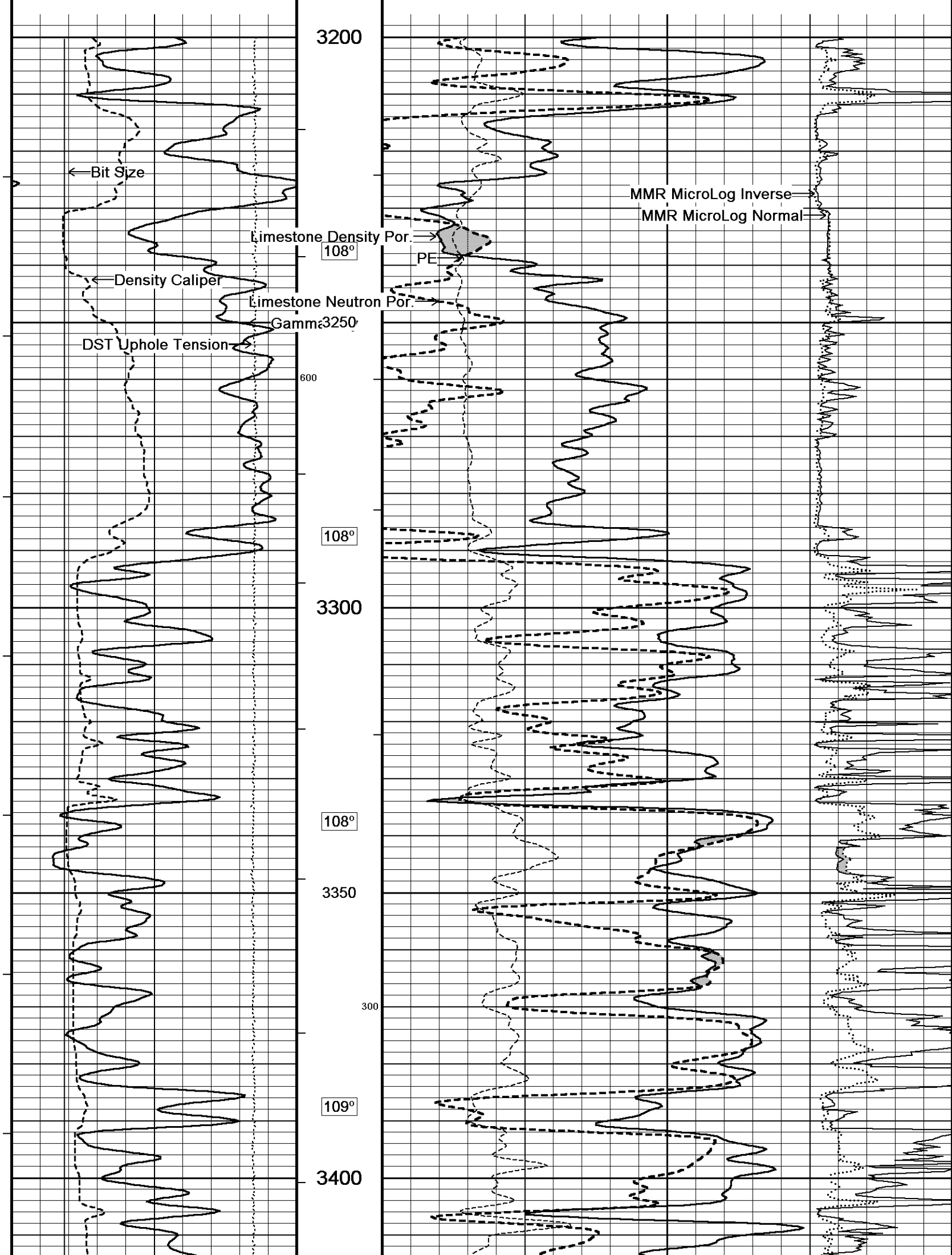
- RIG: WW DRILLING #8.
- ENGINEER: A. SILL.
- OPERATOR: B. TOVAR, C. BAKER.

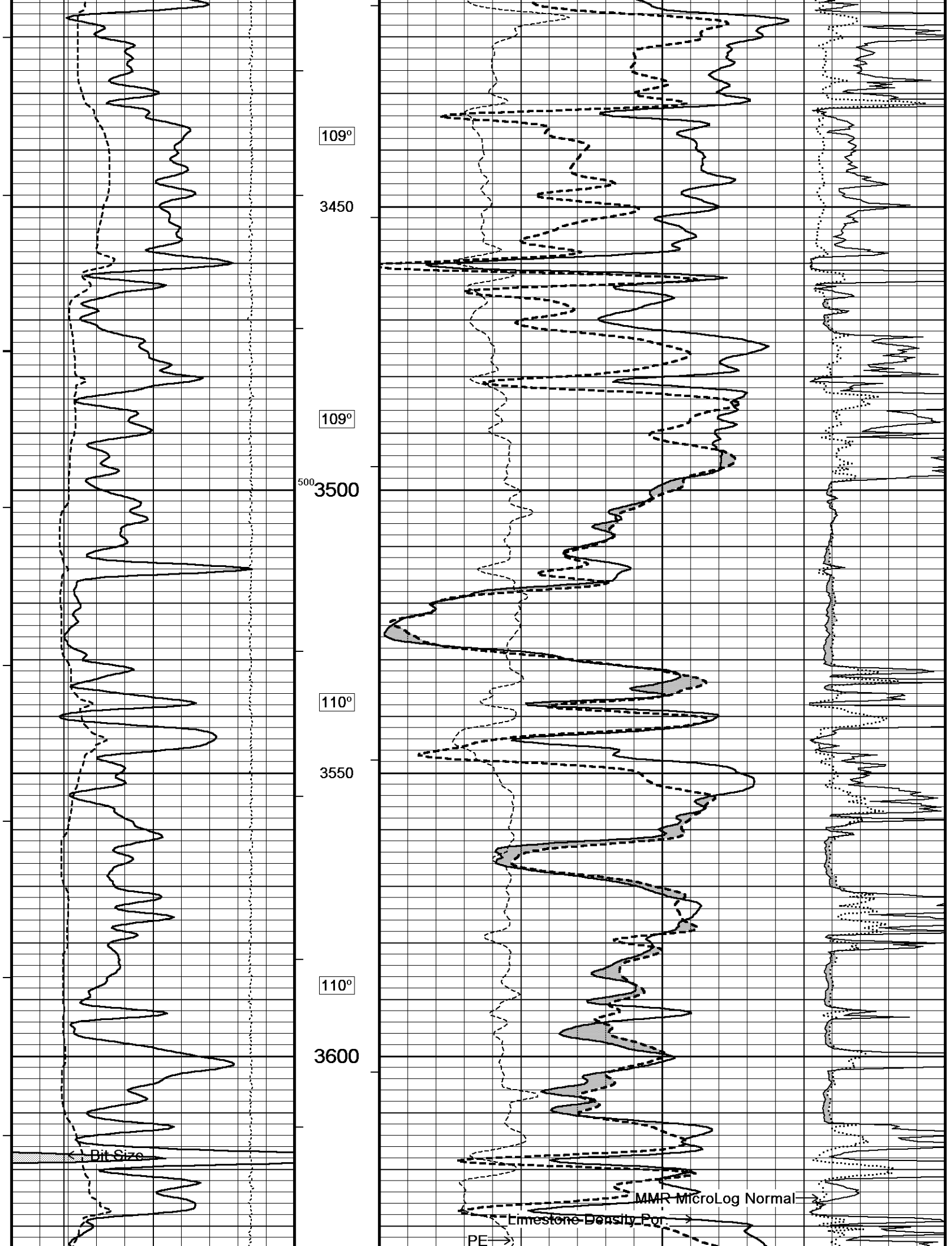
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

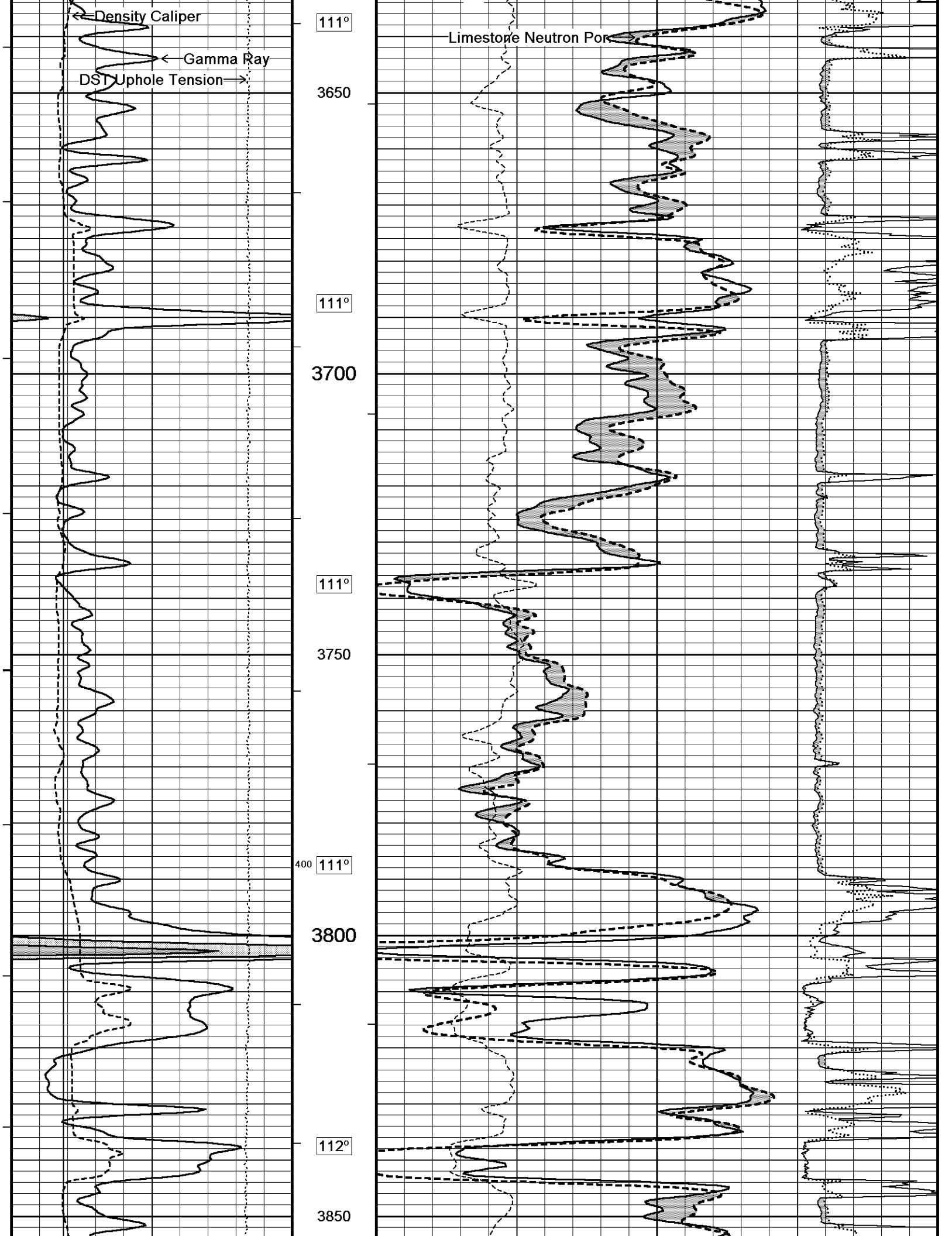


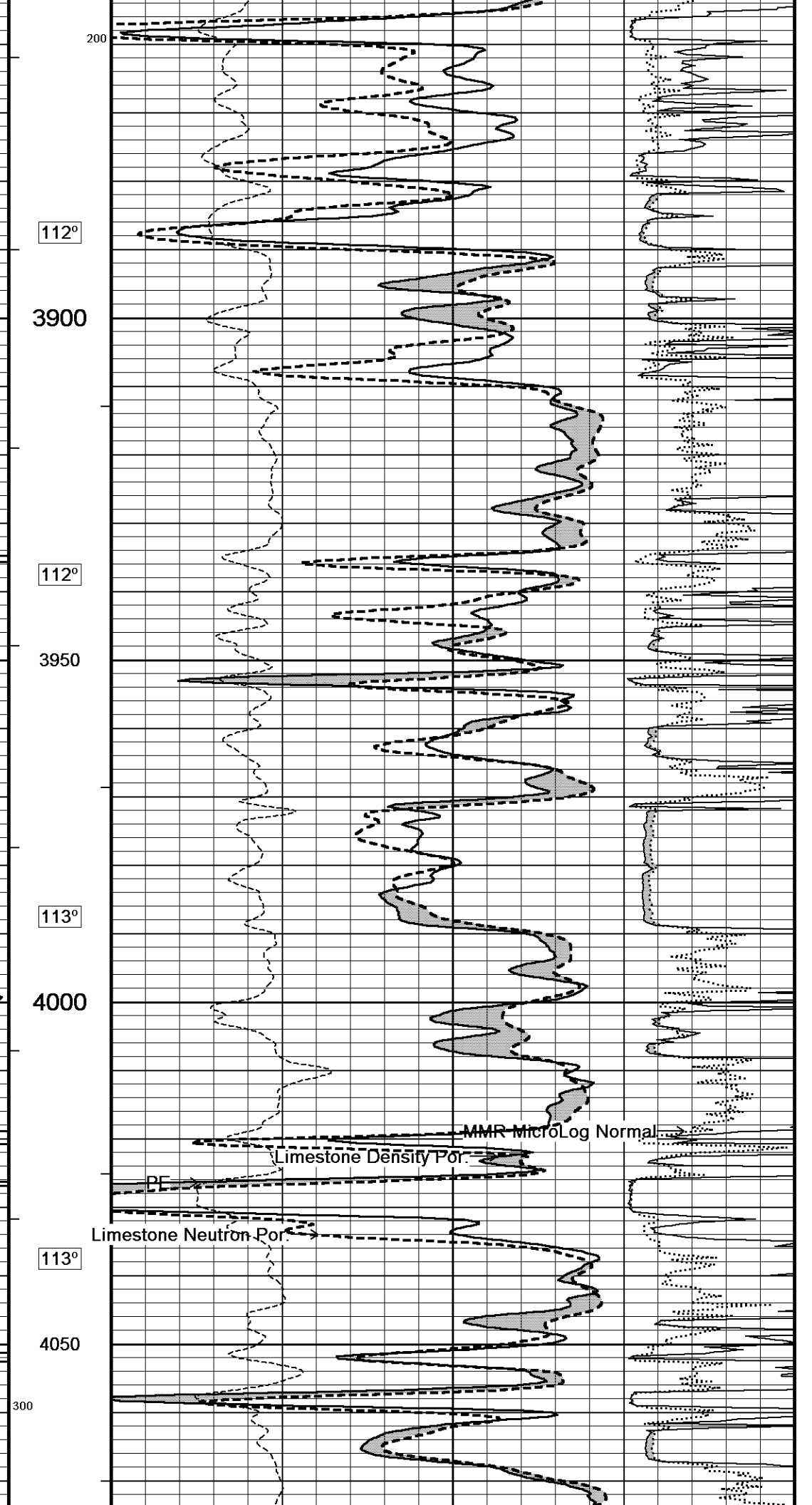
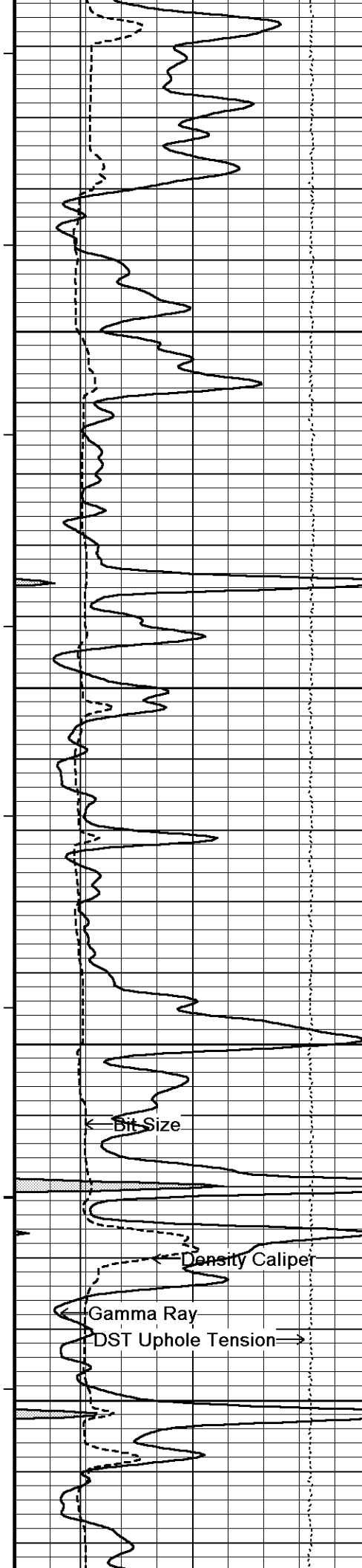


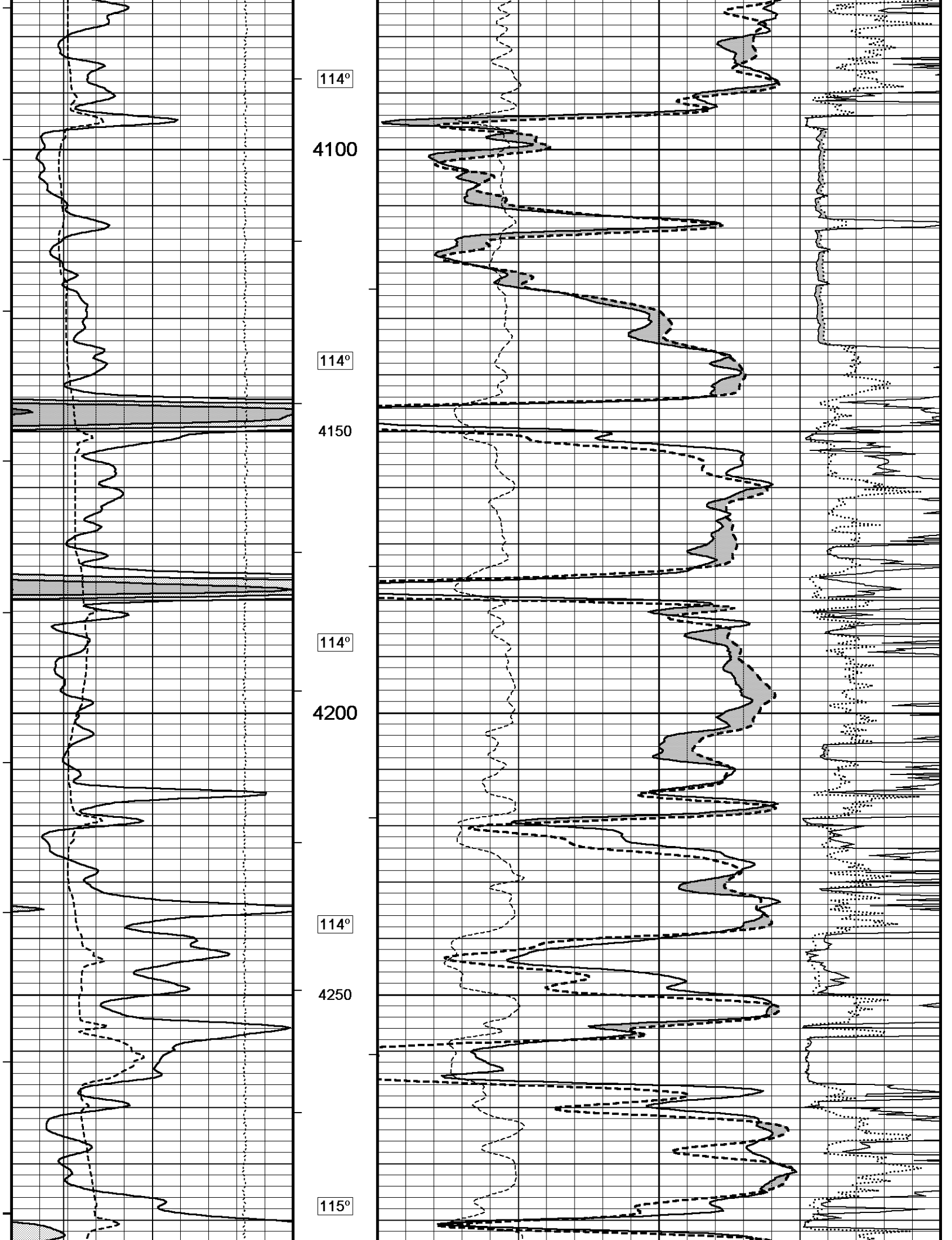


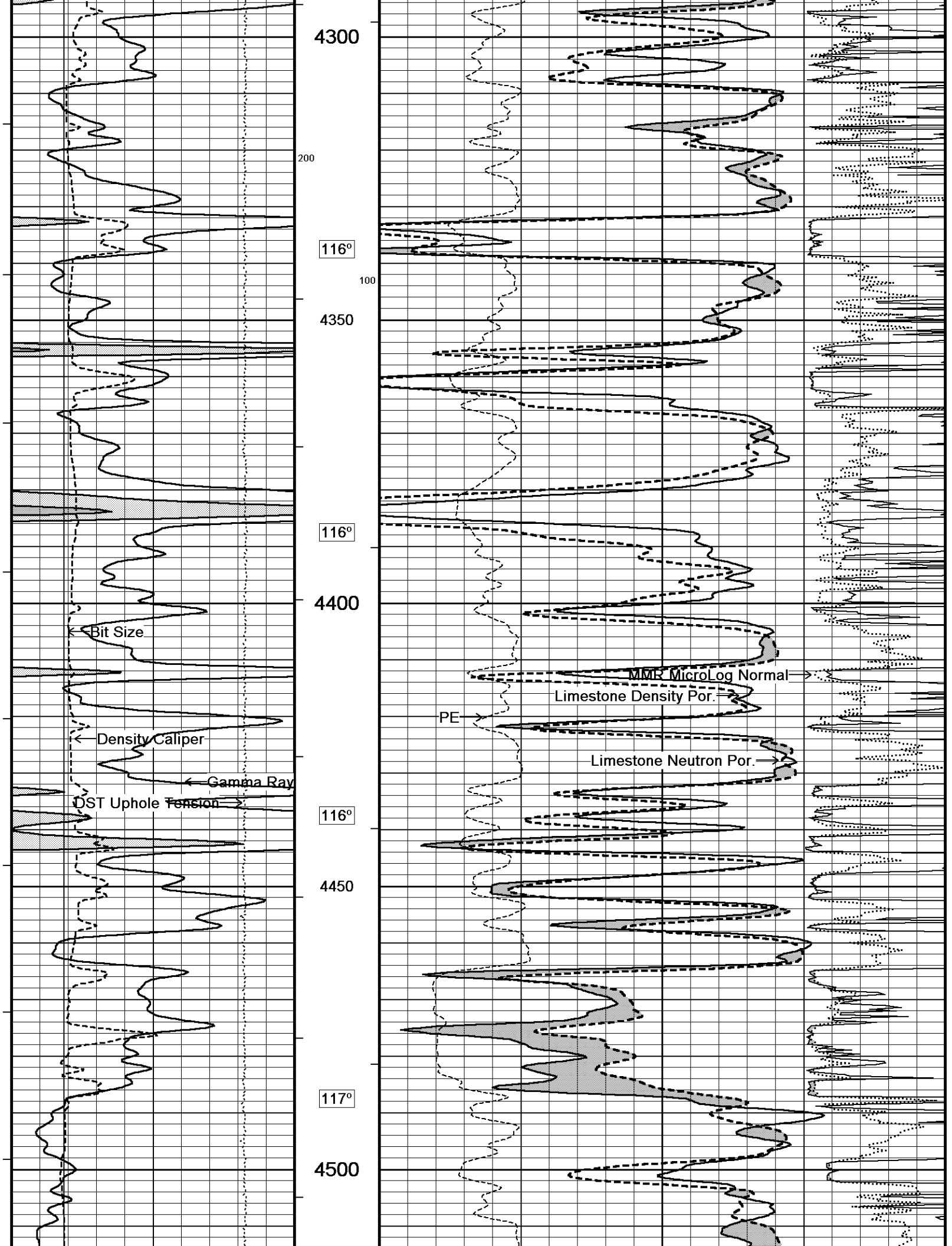


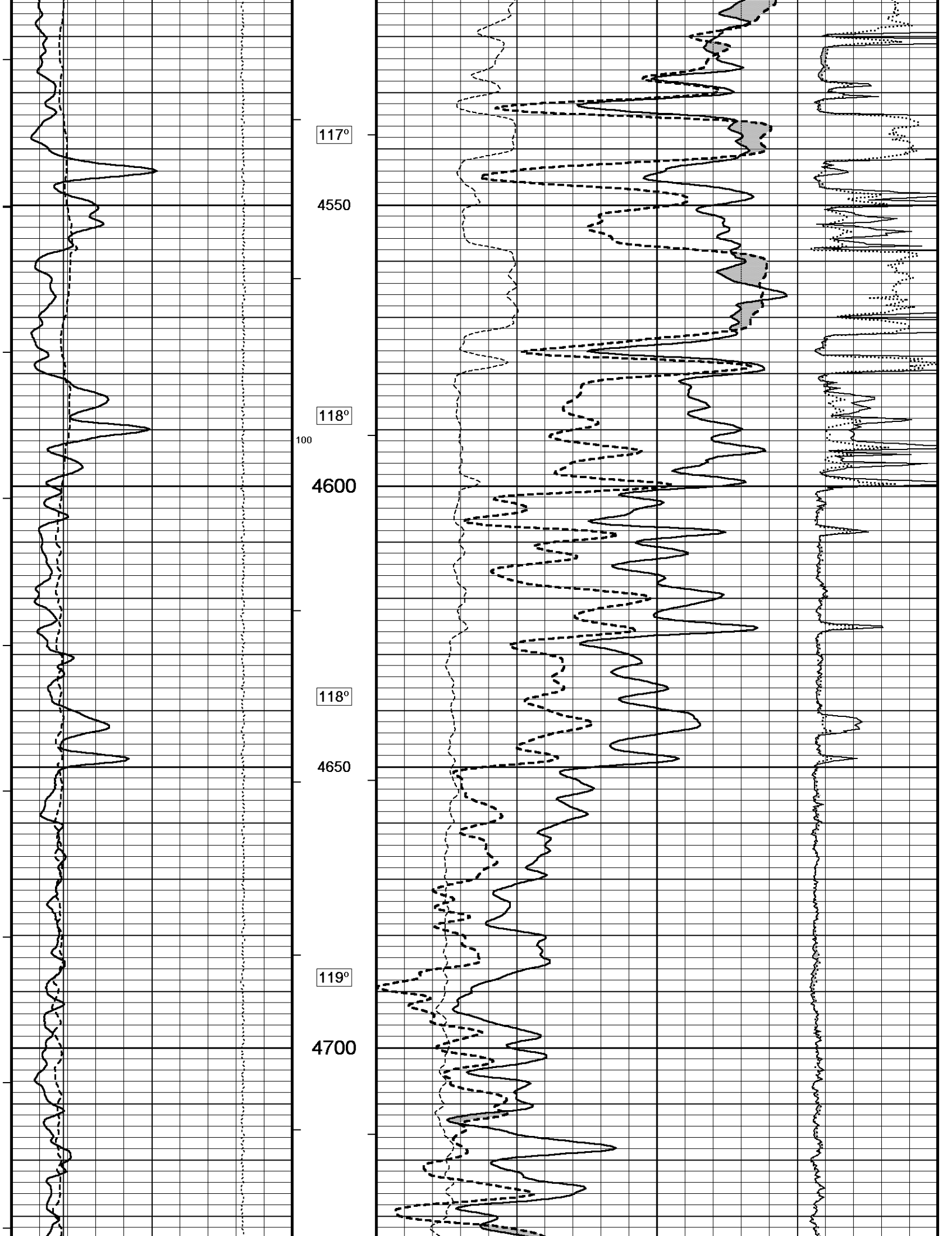


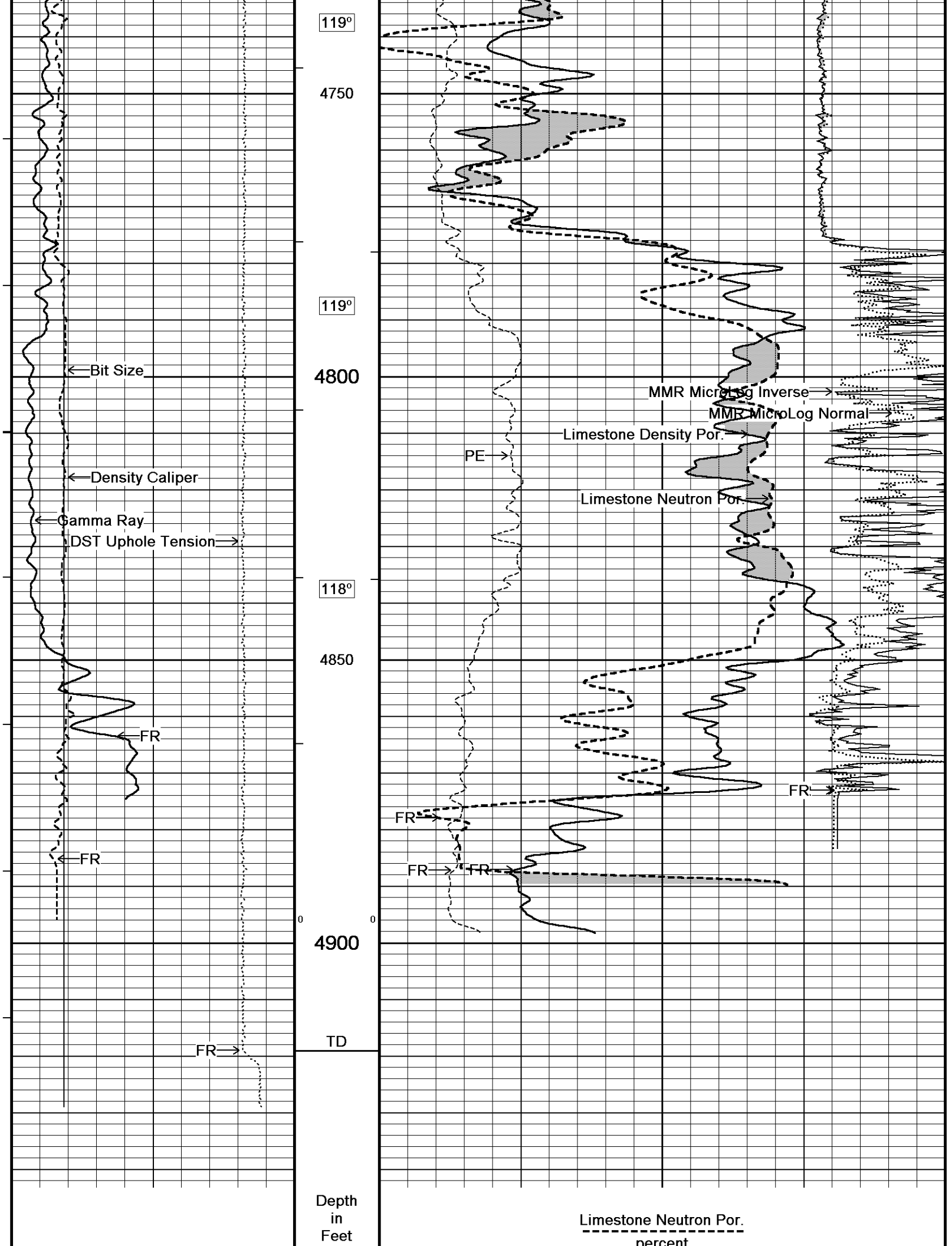


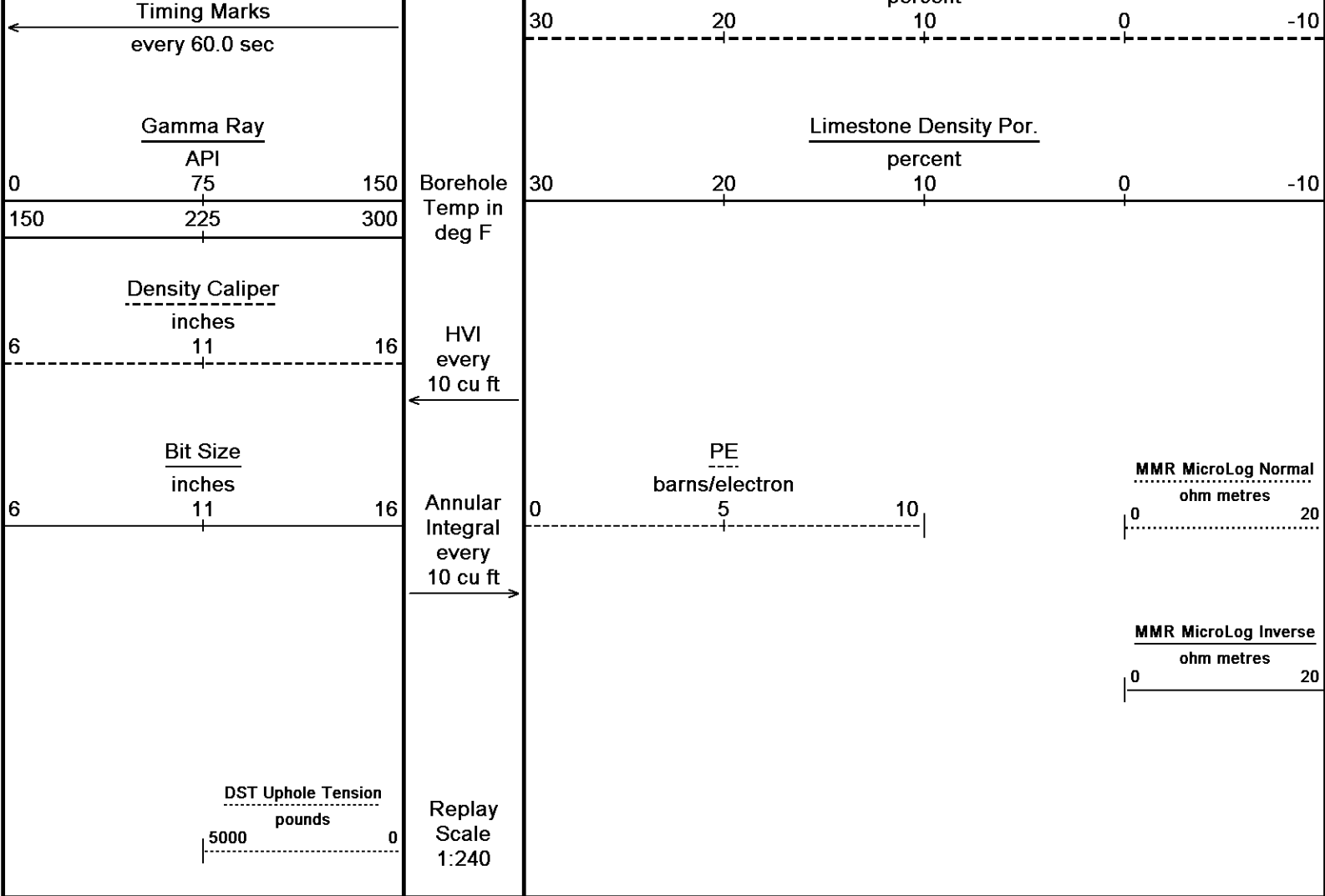










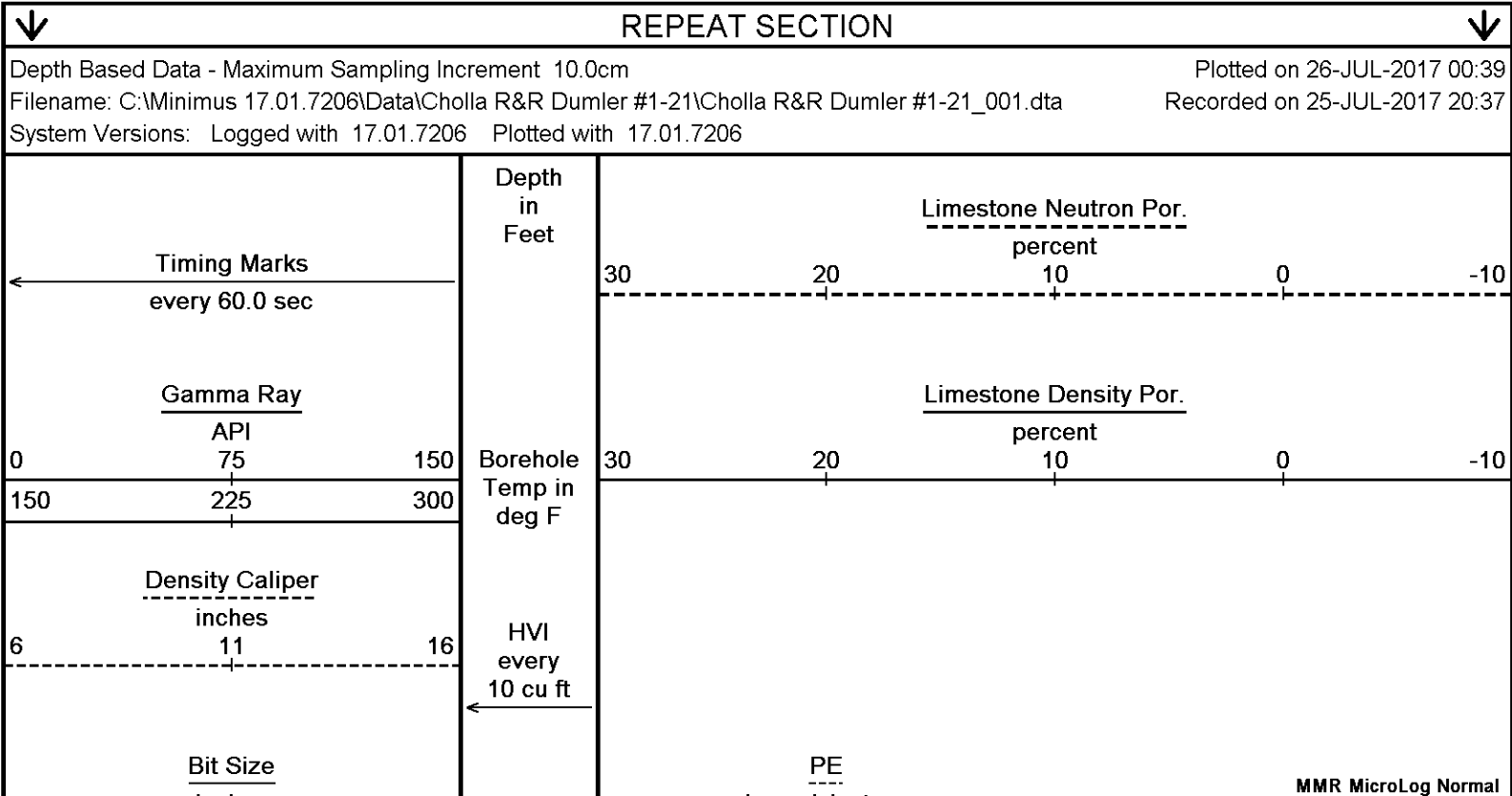


Depth Based Data - Maximum Sampling Increment 10.0cmPlotted on 26-JUL-2017 00:39

Filename: C:\Minimus 17.01.7206\Data\Cholla R&R Dumler #1-21\Cholla R&R Dumler #1-21_002.dtaRecorded on 25-JUL-2017 21:11

System Versions: Logged with 17.01.7206Plotted with 17.01.7206

↑5 INCH LIMESTONE MAIN↑



6 11 16

DST Uphole Tension
pounds
5000 0

Annular
Integral
every
10 cu ft
→

Replay
Scale
1:240

0 5 10
barns/electron

0 20
ohm metres

MMR MicroLog Inverse
ohm metres
0 20

4450

116°

4500

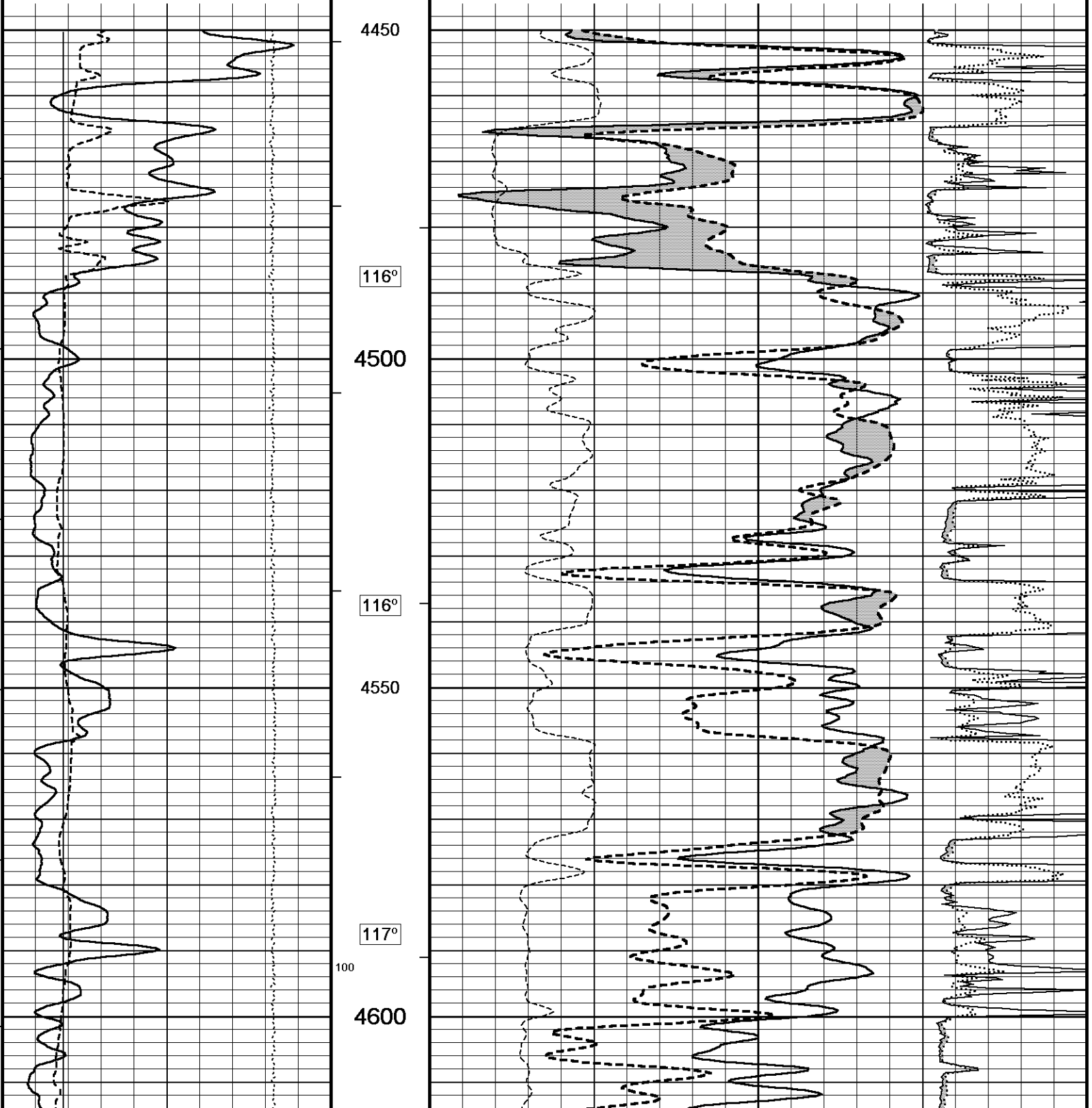
116°

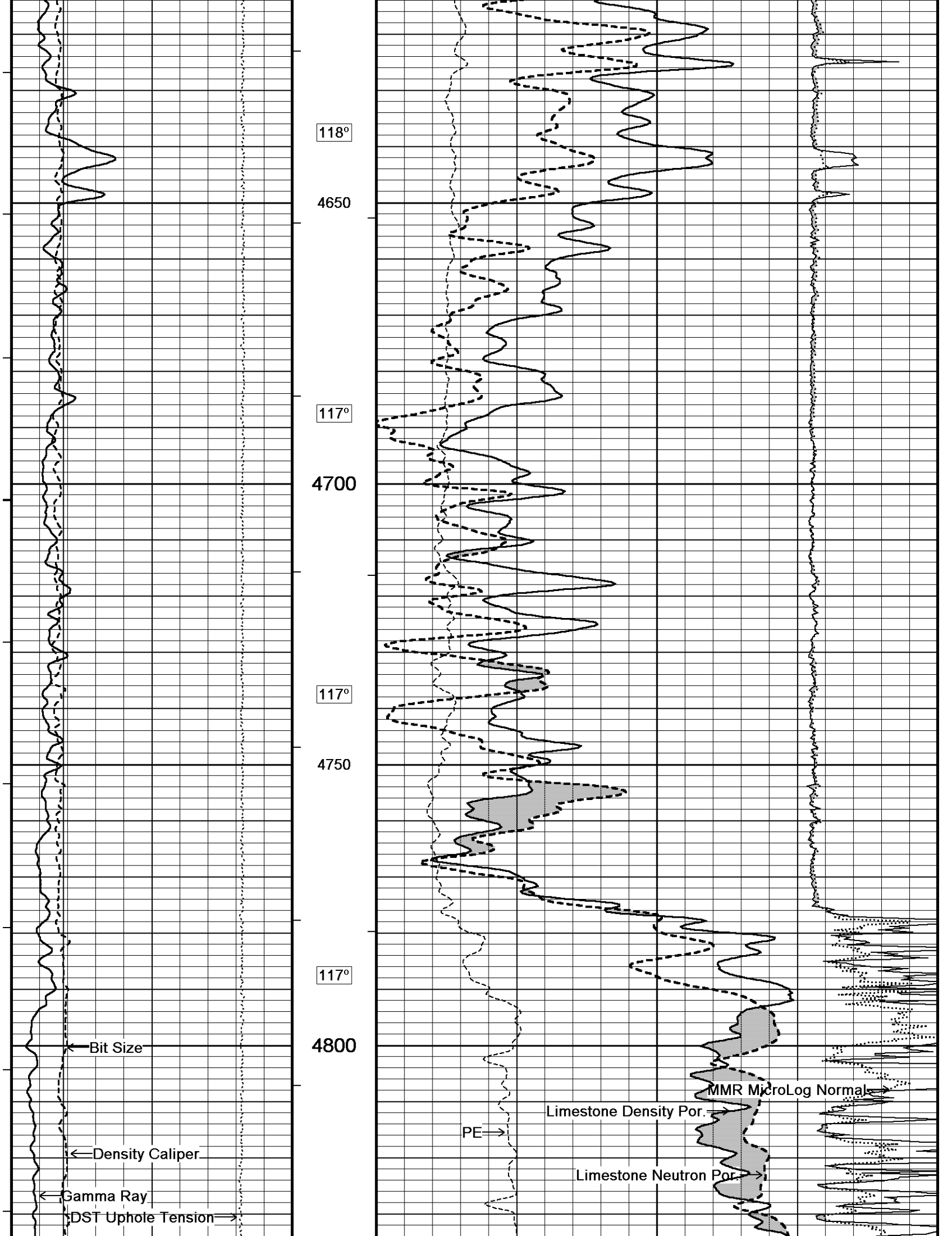
4550

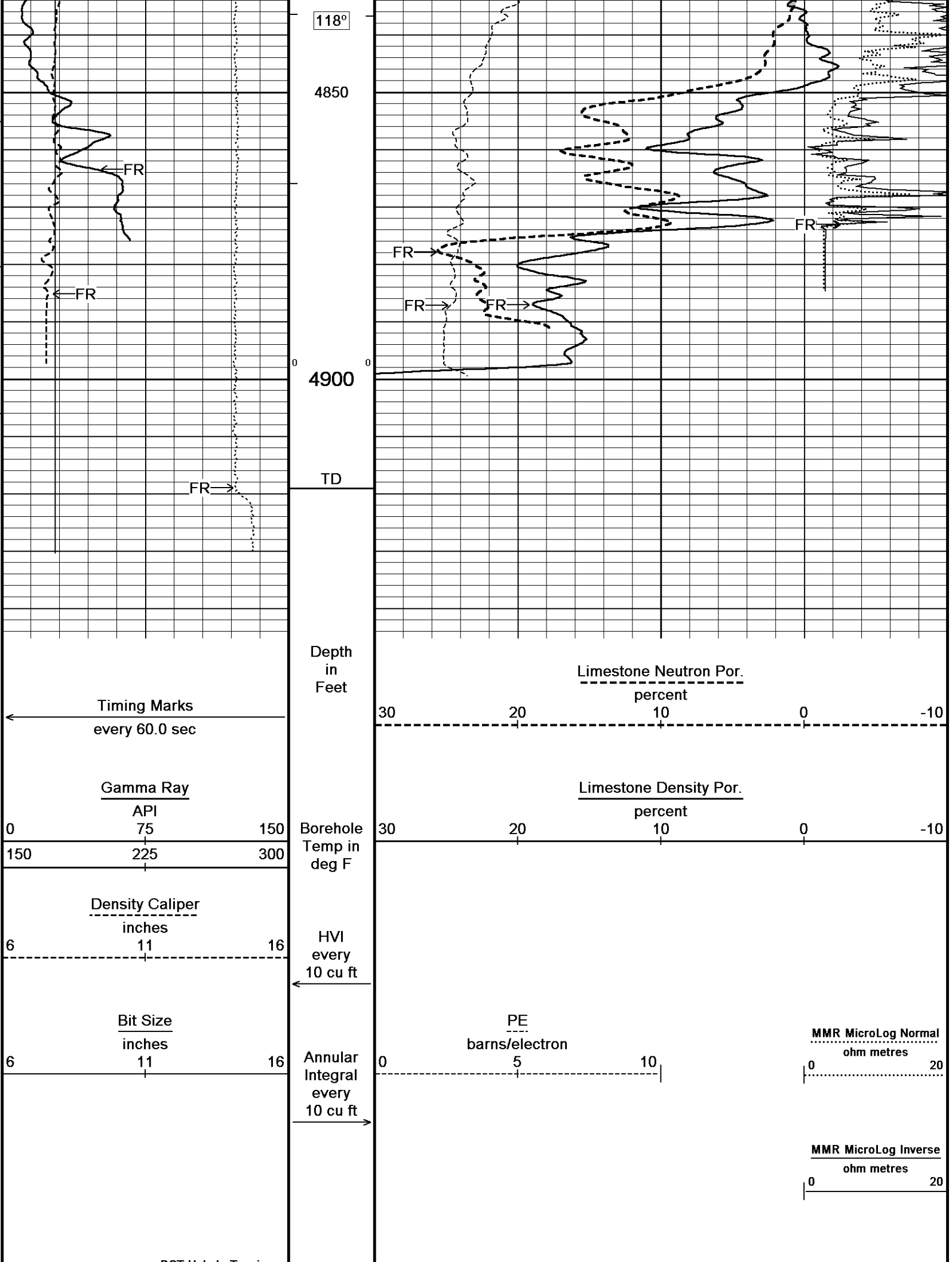
117°

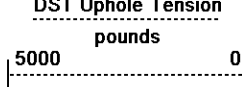
100

4600









Replay
Scale
1:240

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 26-JUL-2017 00:39

Filename: C:\Minimus 17.01.7206\Data\Cholla R&R Dumler #1-21\Cholla R&R Dumler #1-21_001.dta

Recorded on 25-JUL-2017 20:37

System Versions: Logged with 17.01.7206 Plotted with 17.01.7206

↑ REPEAT SECTION ↑

↓ 5 INCH BULK DENSITY MAIN ↓

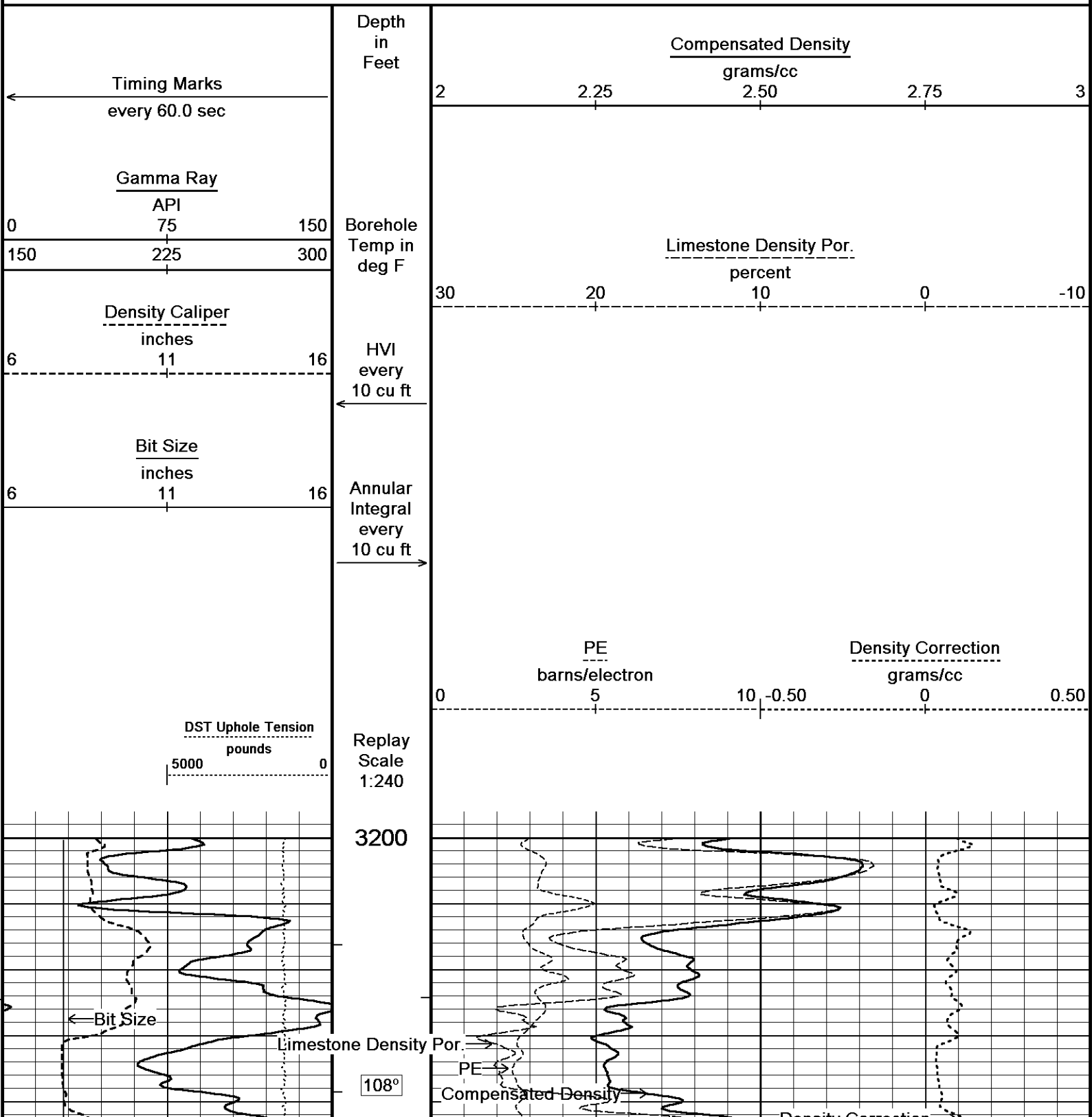
Depth Based Data - Maximum Sampling Increment 10.0cm

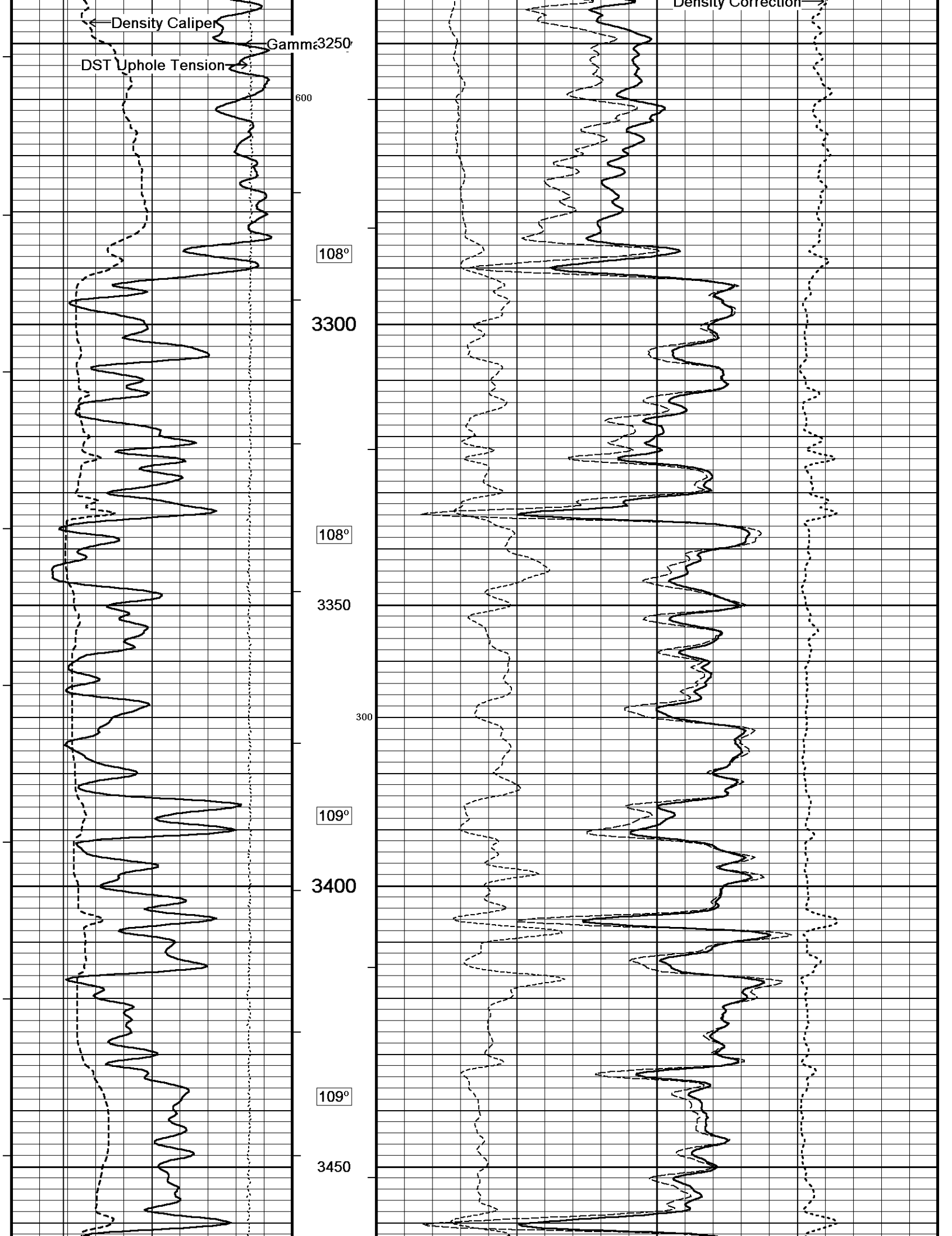
Plotted on 26-JUL-2017 00:39

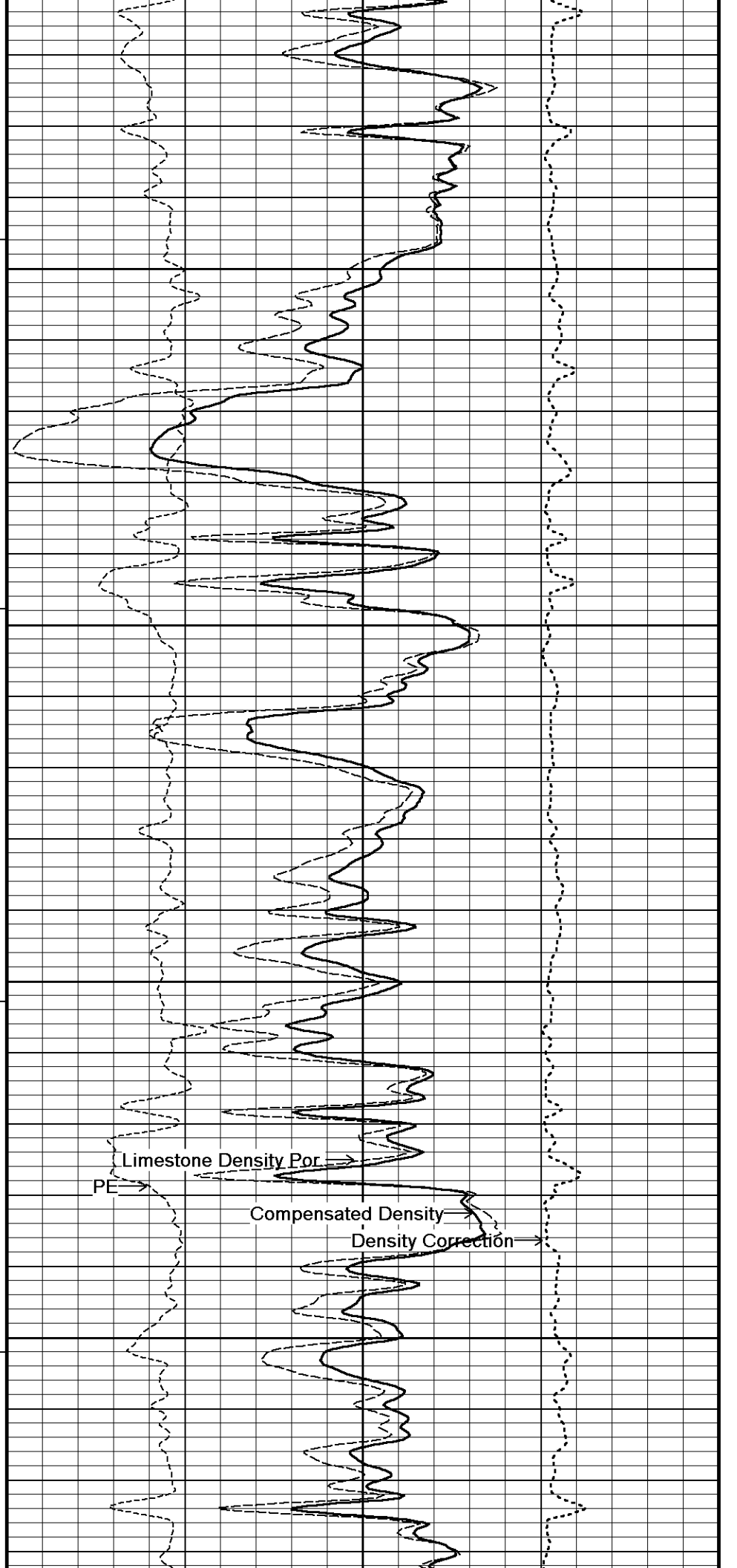
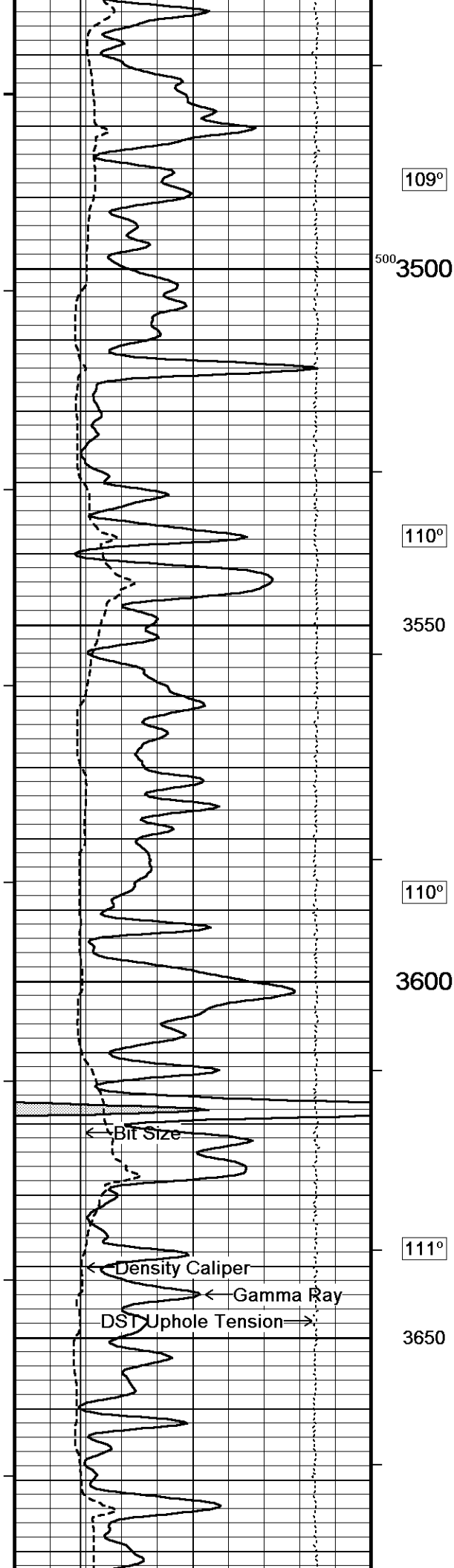
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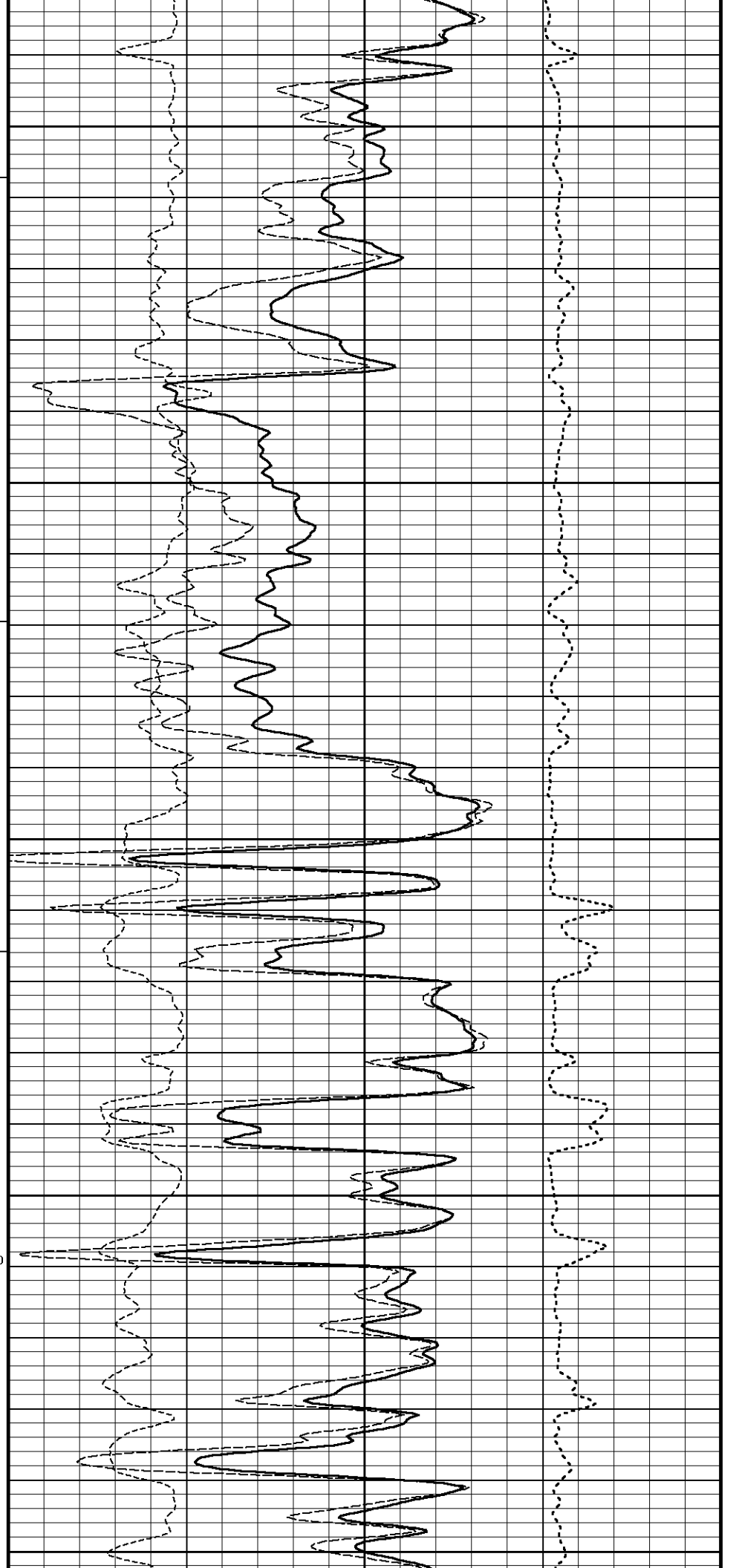
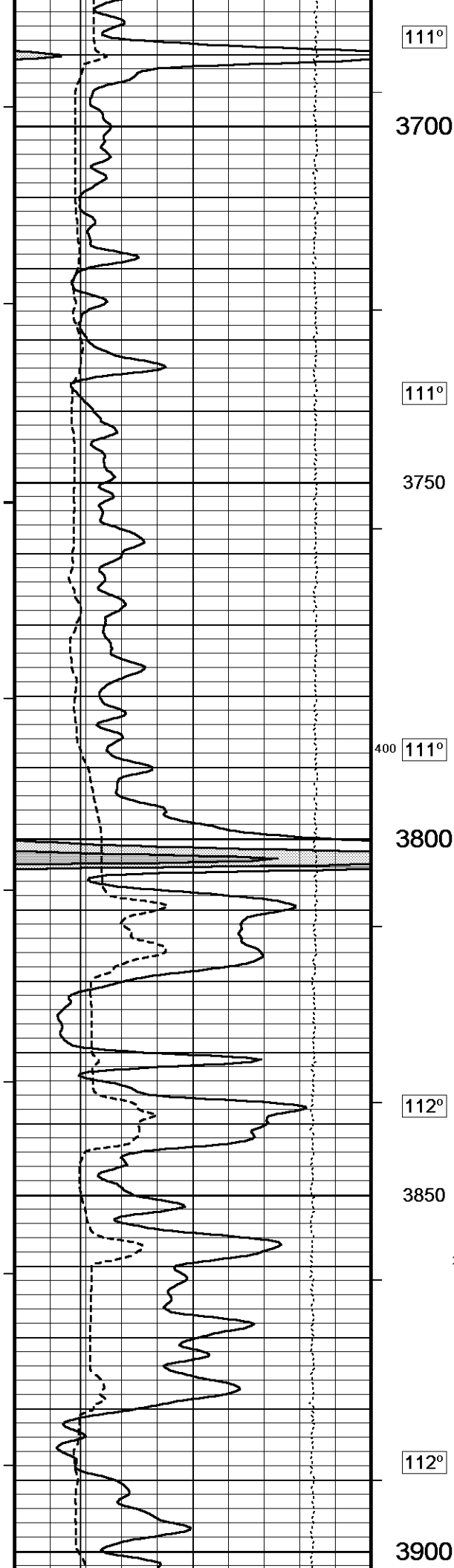
Recorded on 25-JUL-2017 21:11

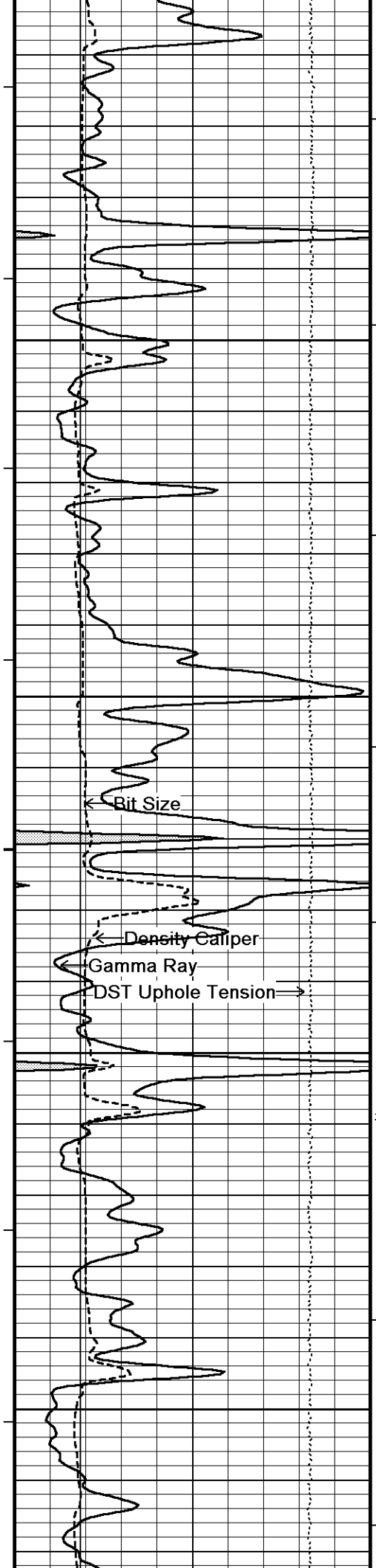
System Versions: Logged with 17.01.7206 Plotted with 17.01.7206











112°

3950

113°

4000

Bit Size

Density Caliper

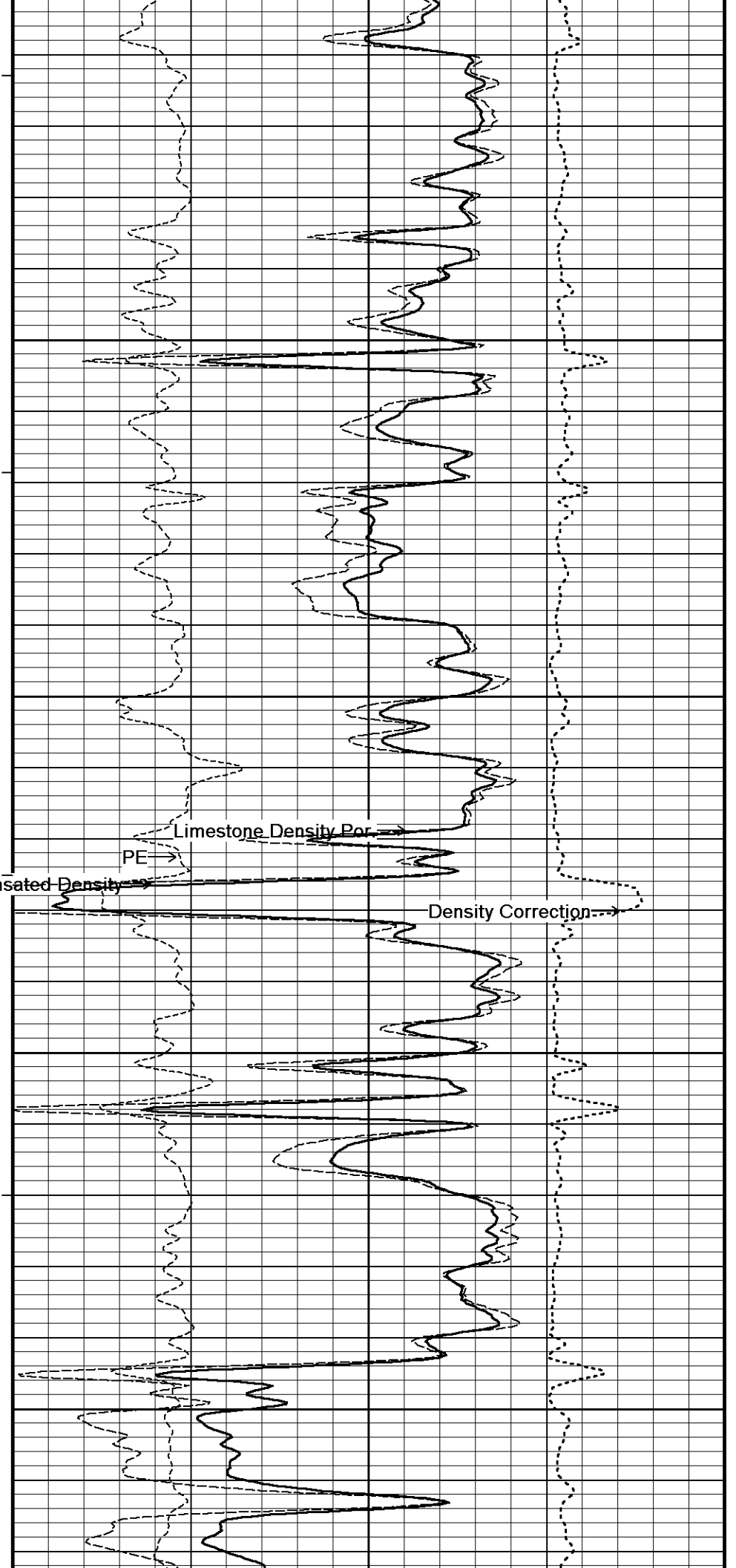
Gamma Ray

DST Uphole Tension

300

114°

4100

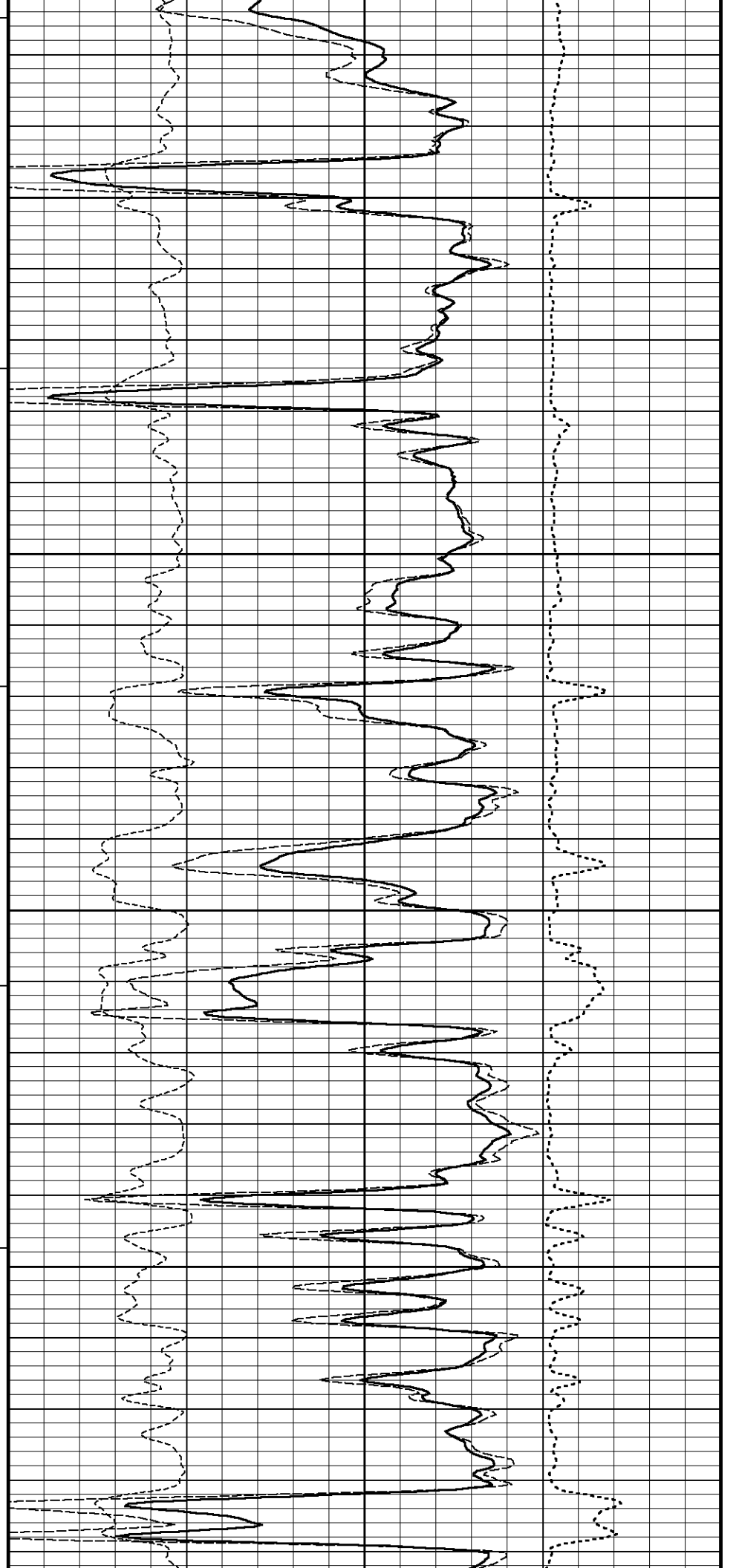
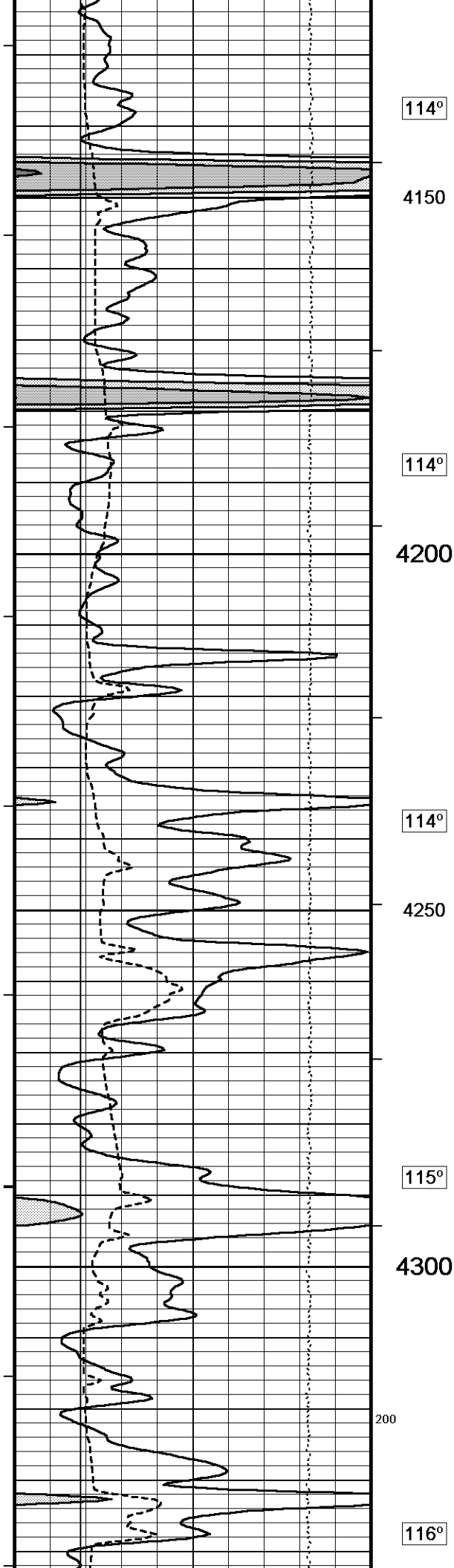


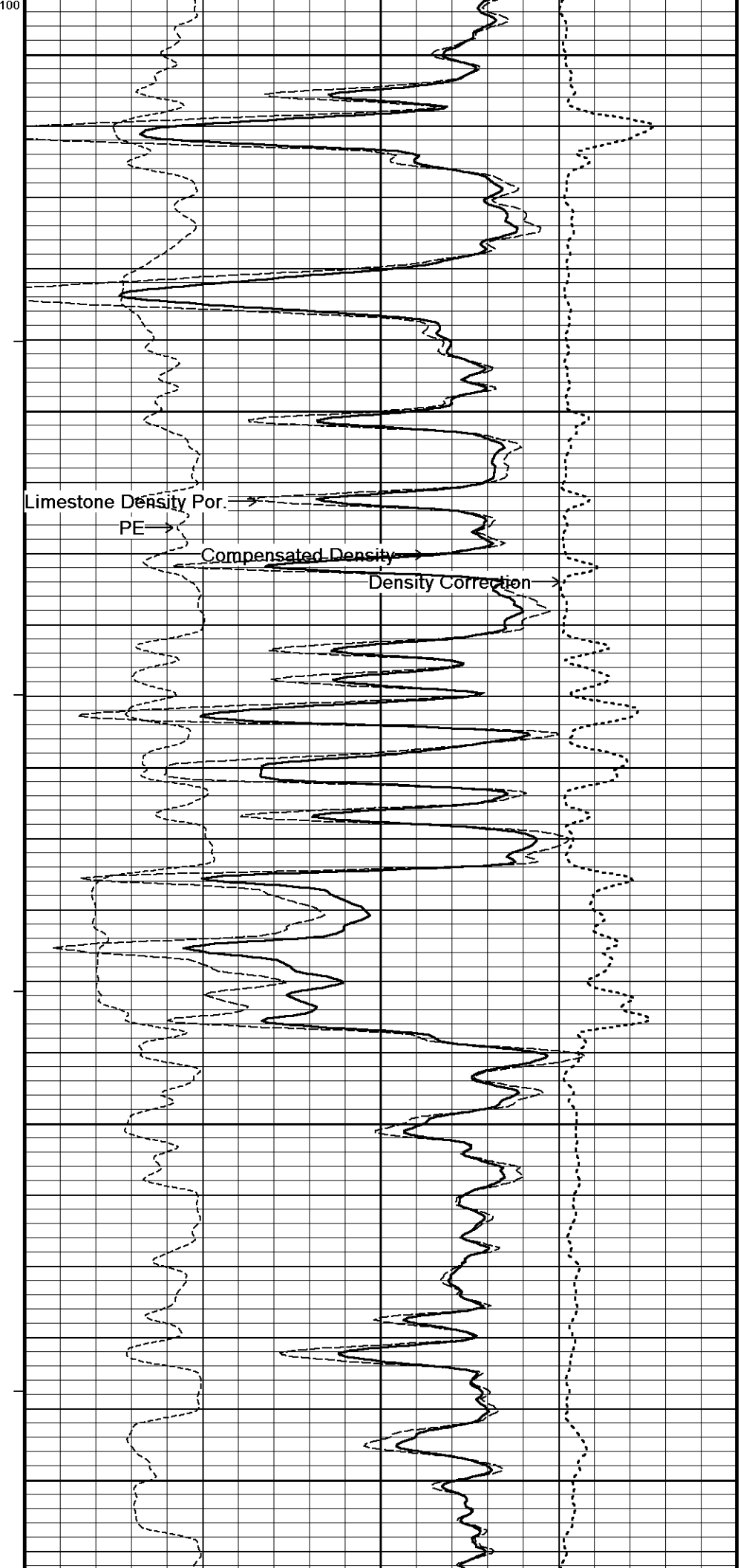
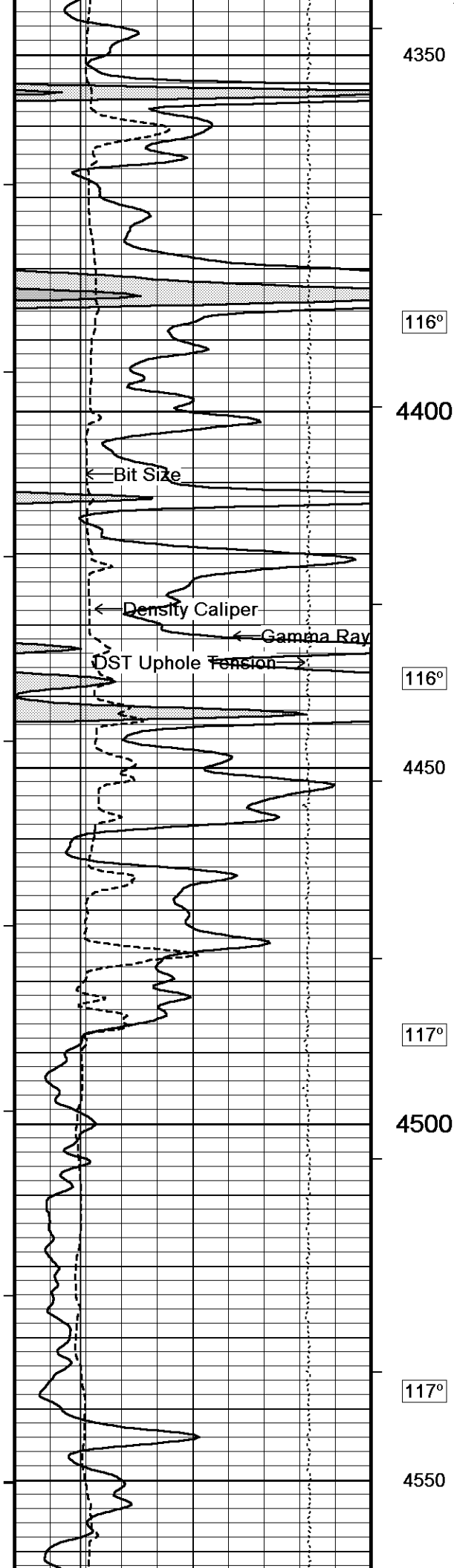
Limestone Density Por

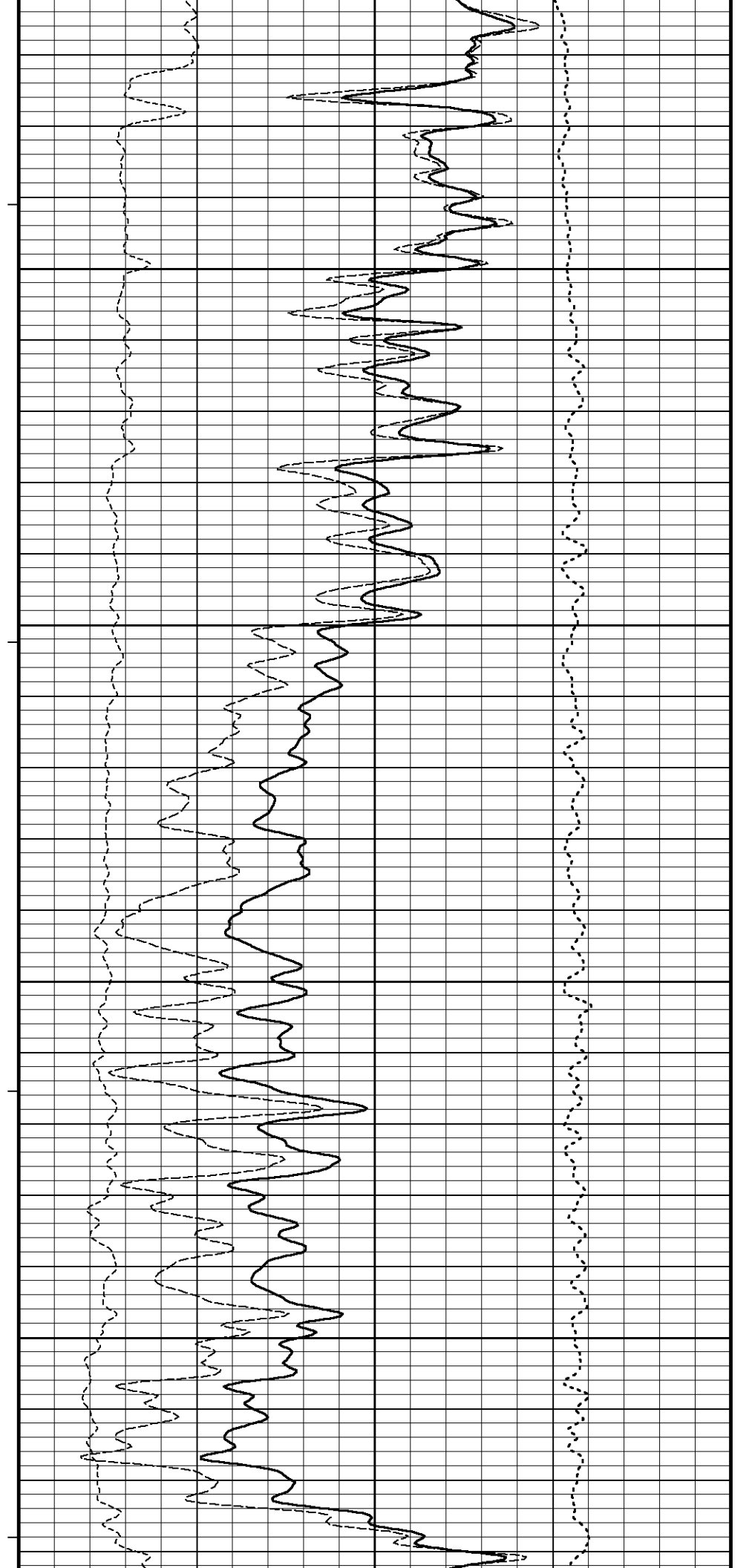
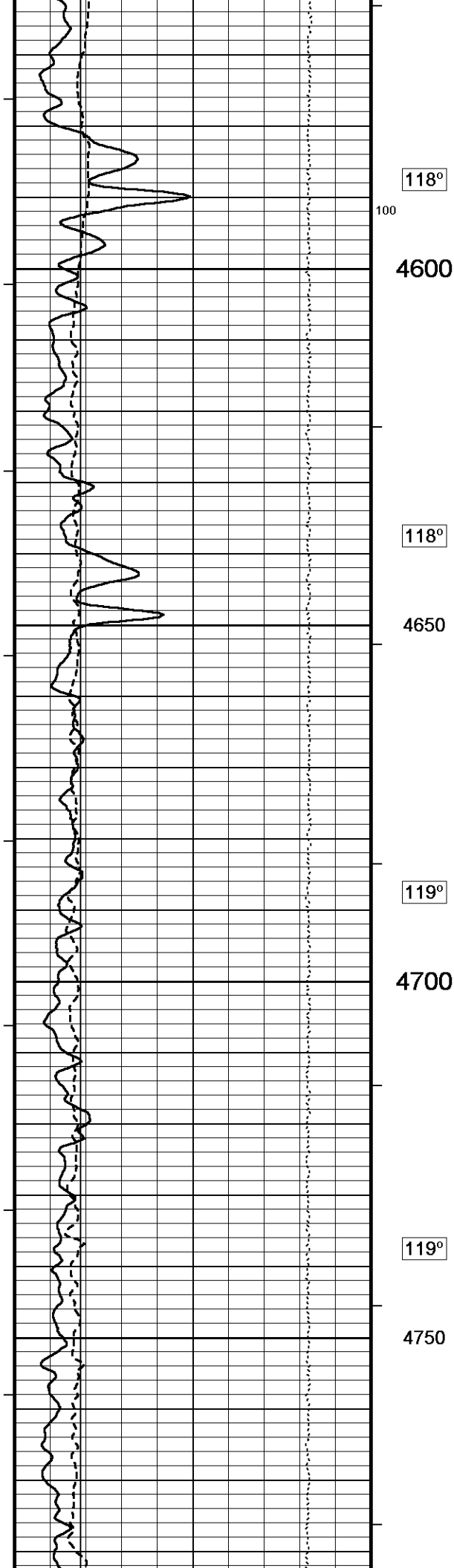
PE

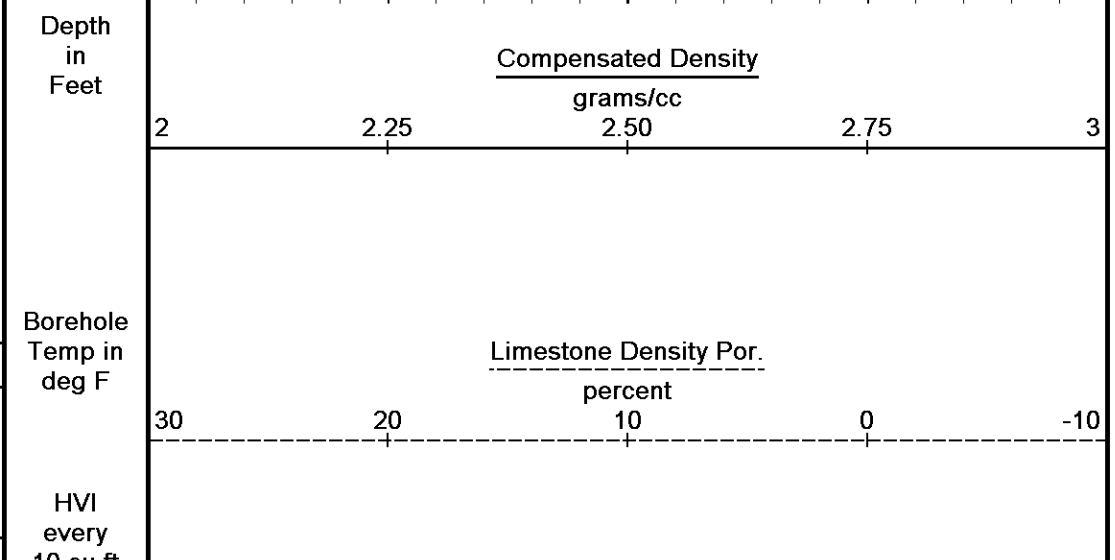
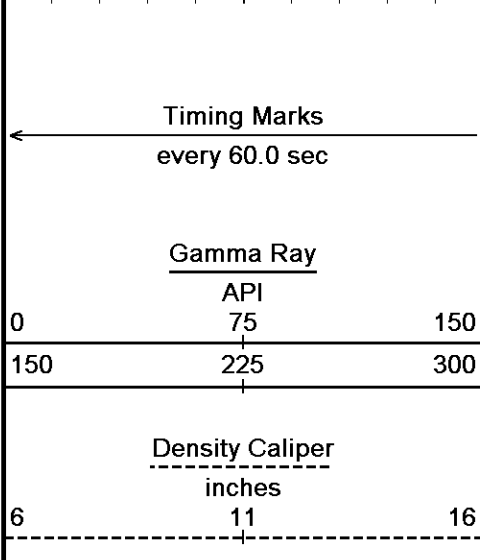
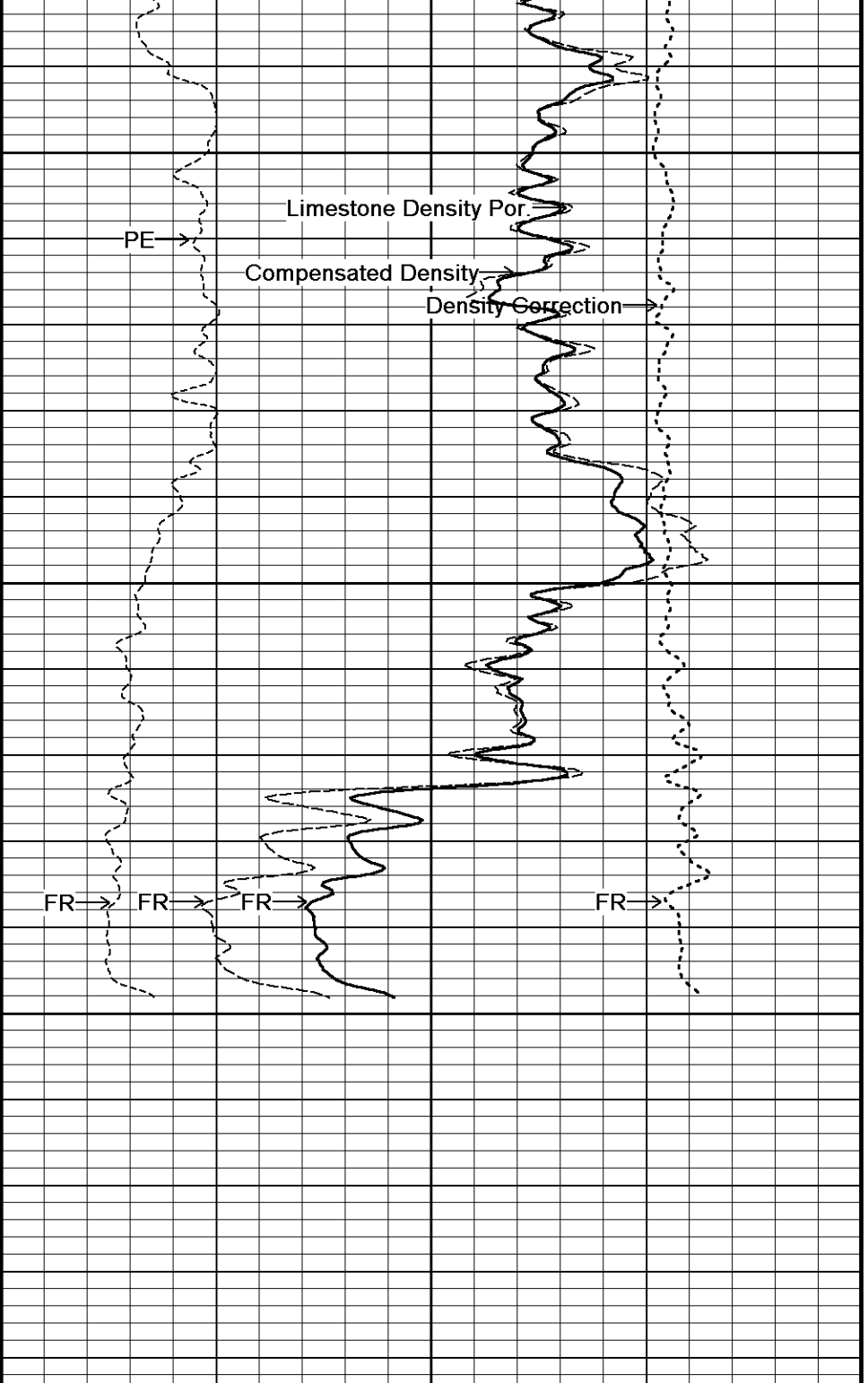
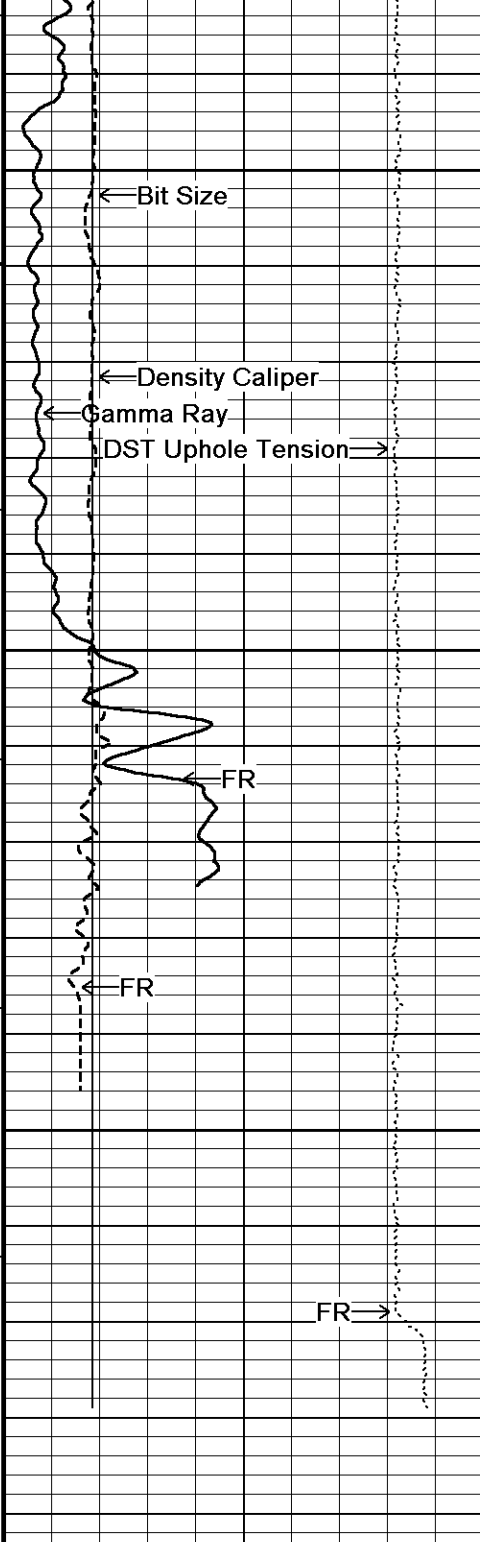
Compensated Density

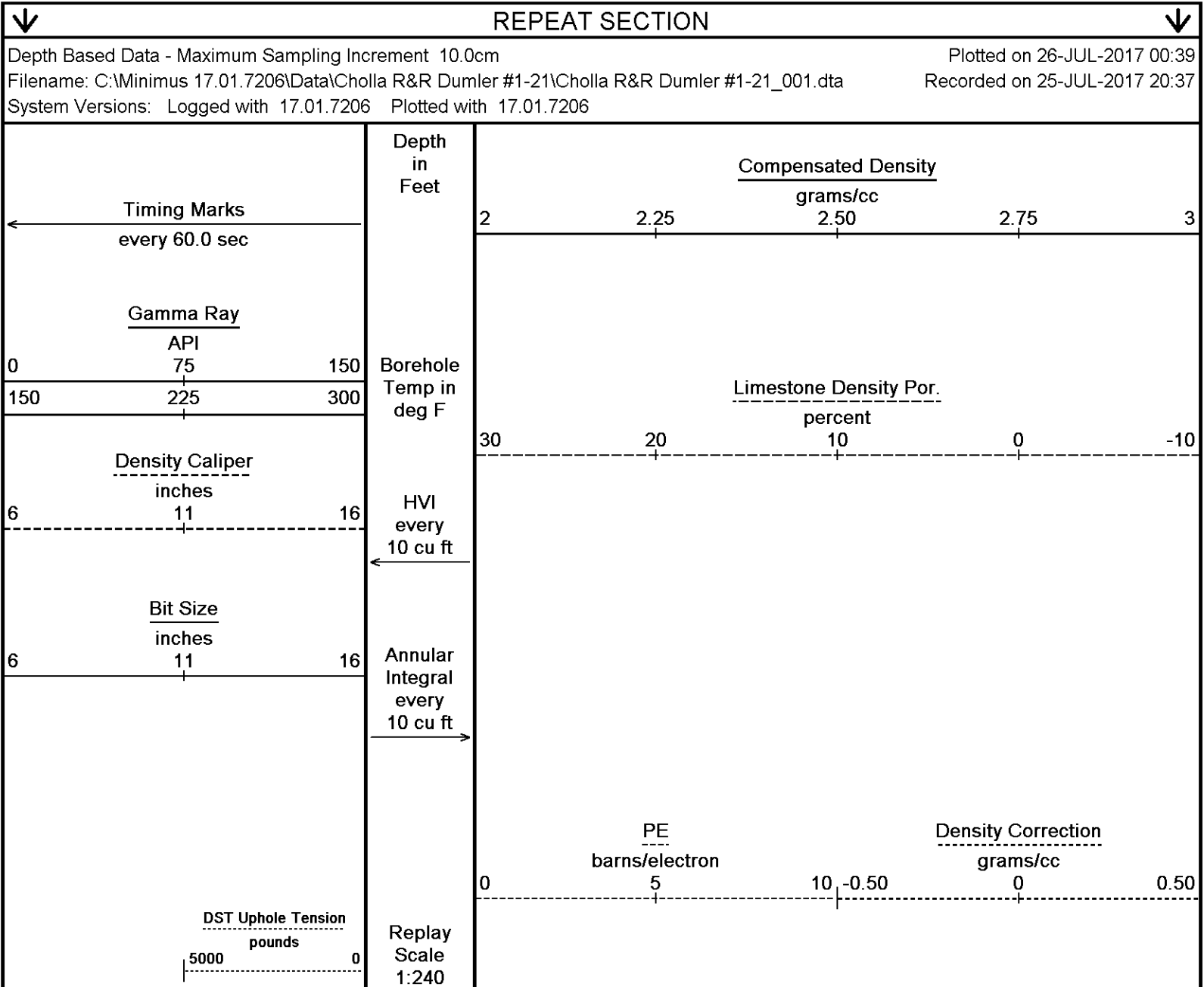
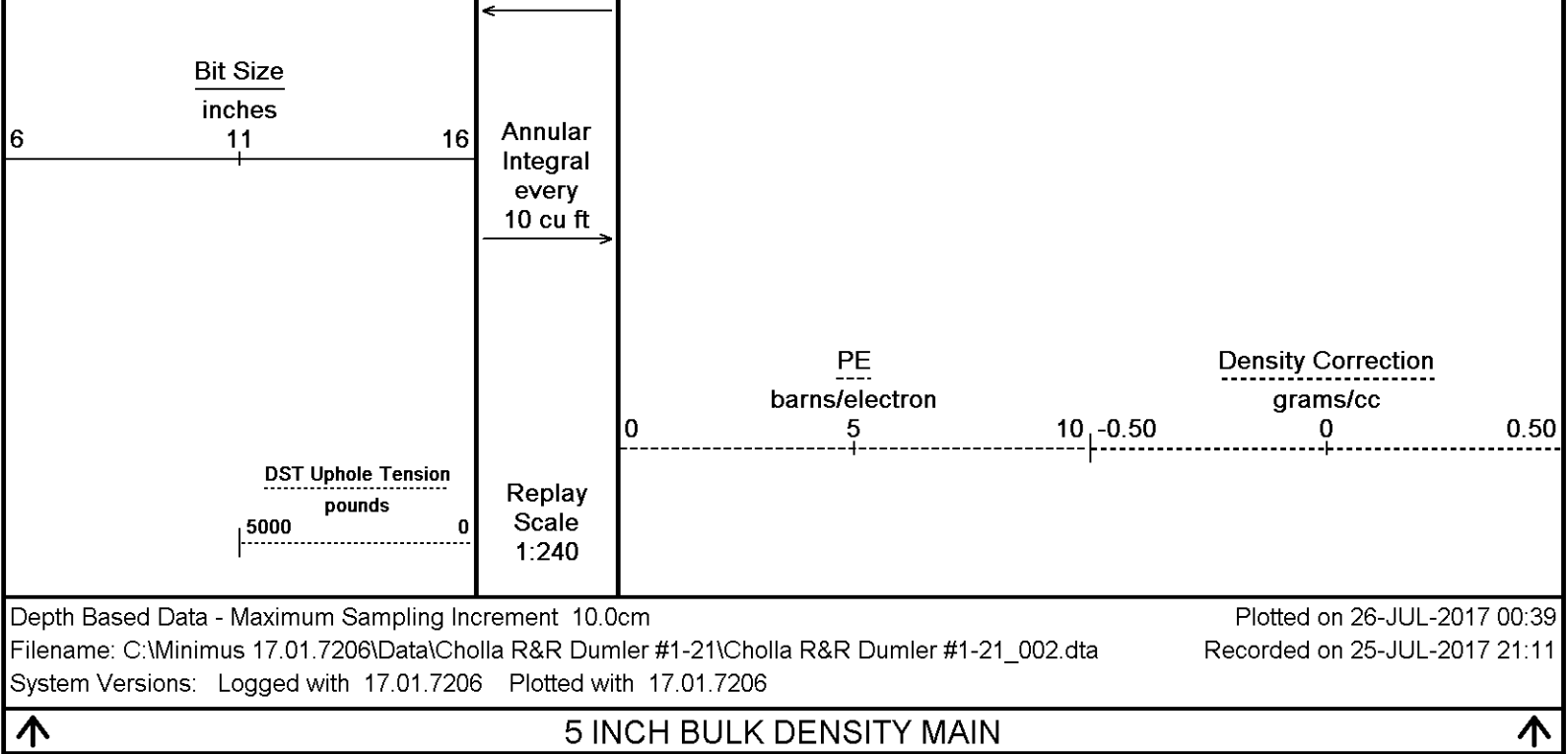
Density Correction

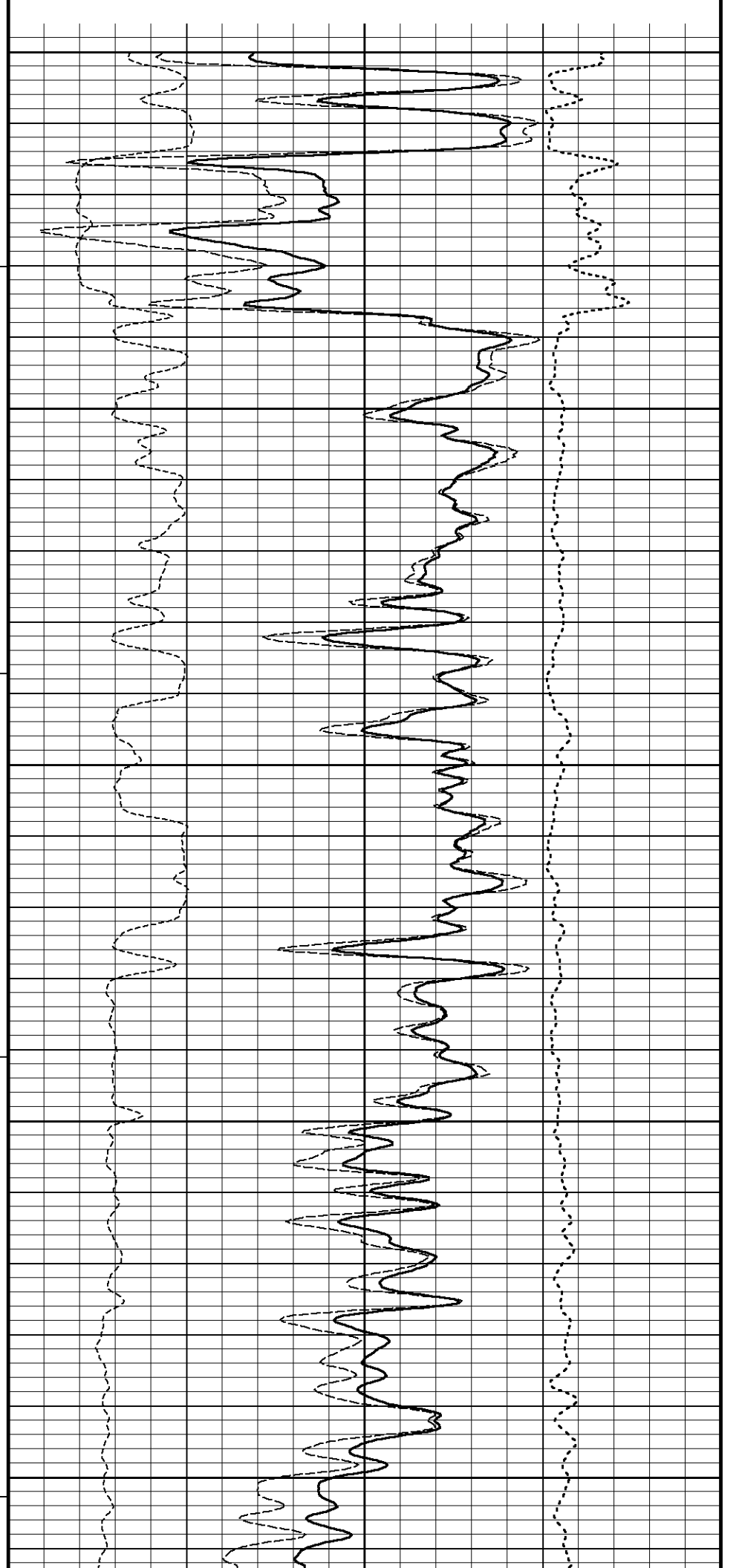
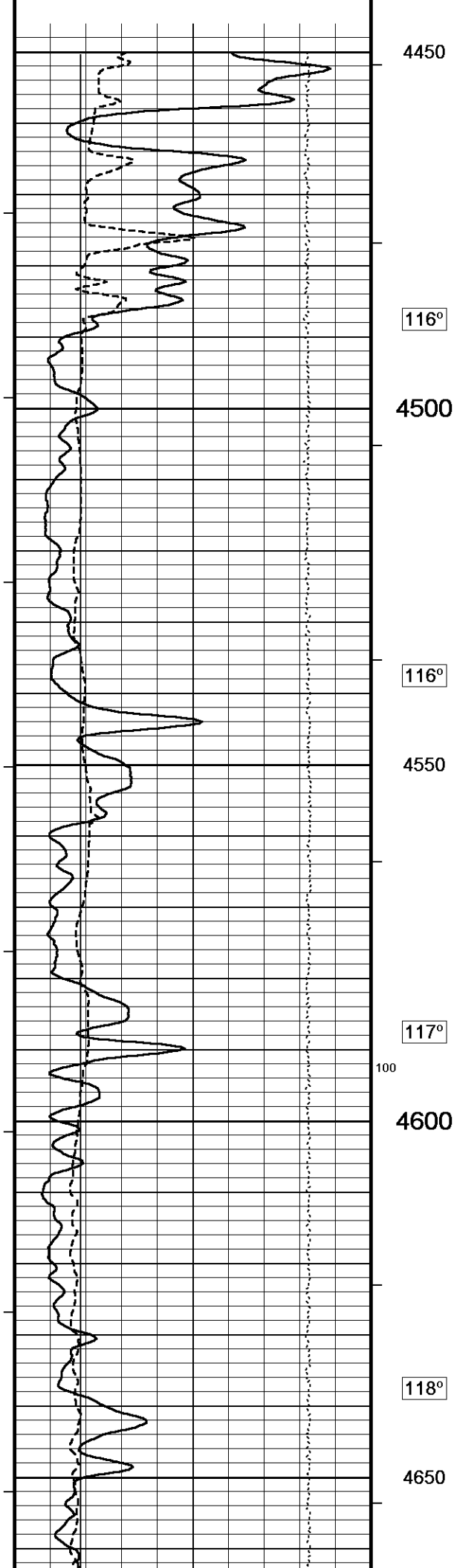


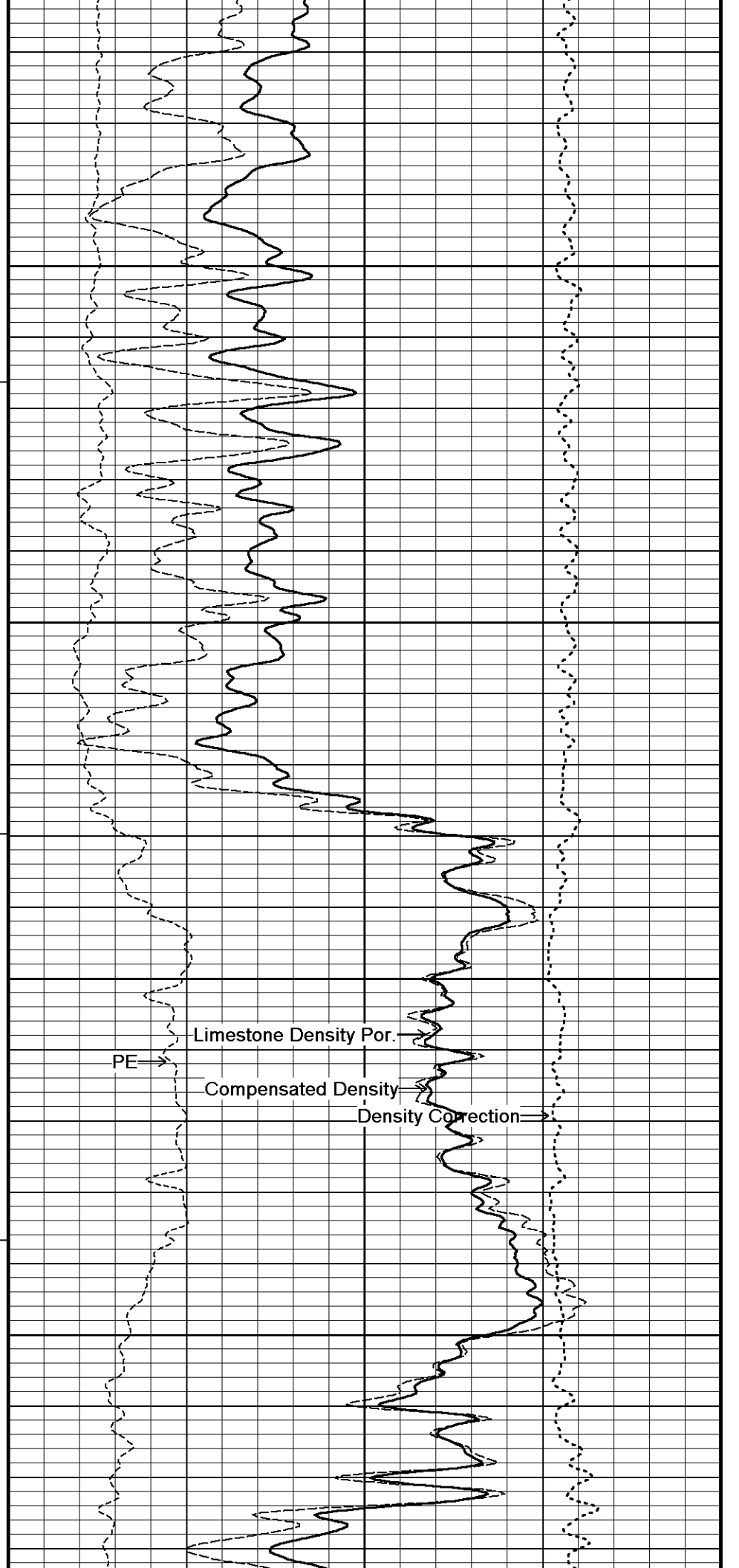
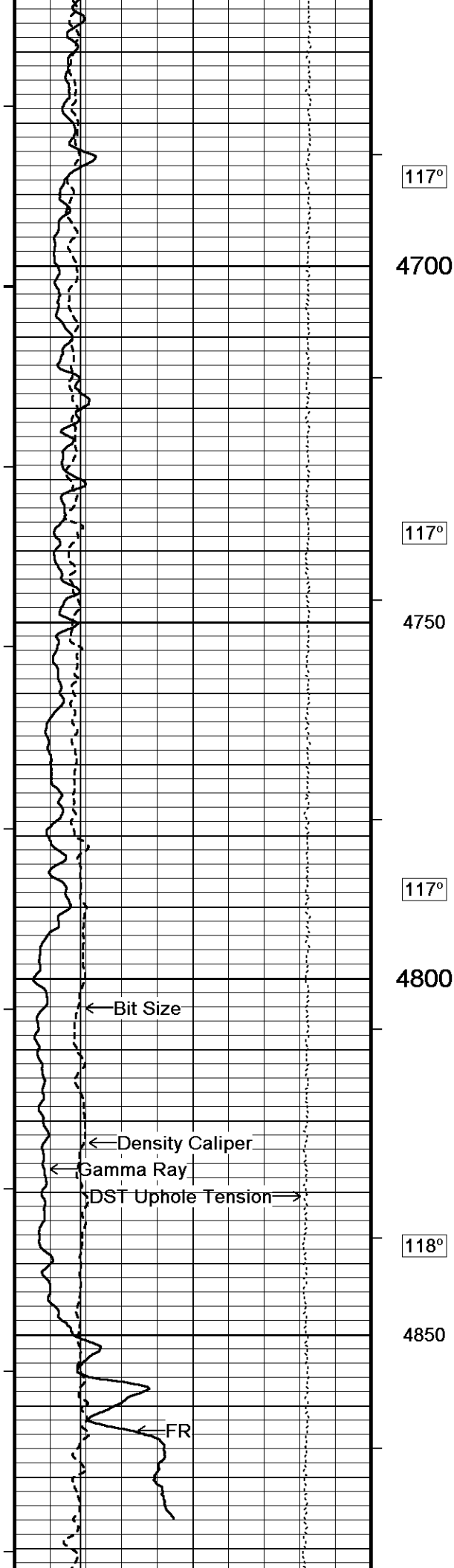


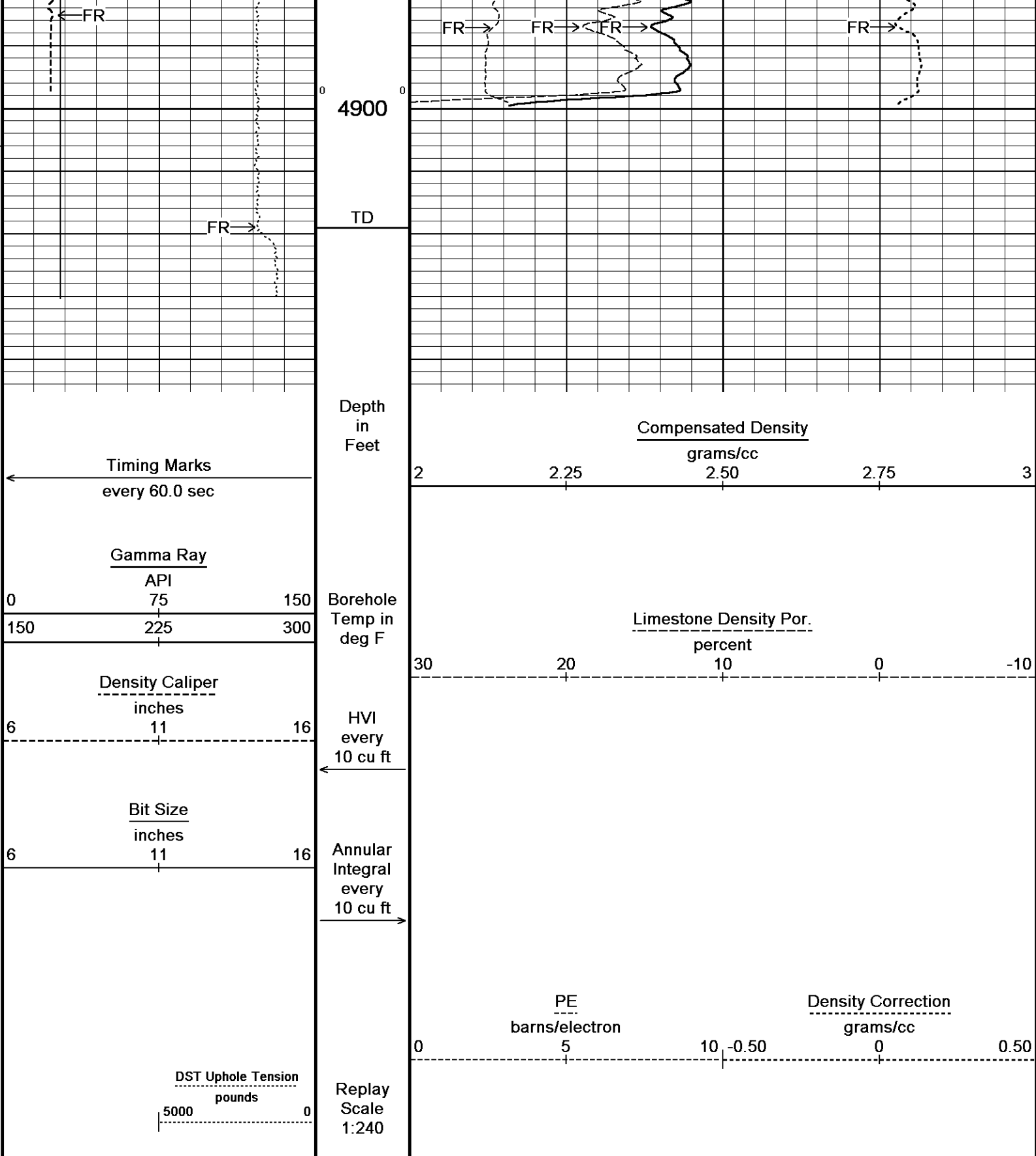












Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 17.01.7206\Data\Cholla R&R Dumler #1-21\Cholla R&R Dumler #1-21_001.dta
System Versions: Logged with 17.01.7206 Plotted with 17.01.7206

Plotted on 26-JUL-2017 00:39
Recorded on 25-JUL-2017 20:37

REPEAT SECTION

BEFORE SURVEY CALIBRATION
C:\Minimus 17.01.7206\Data\Cholla R&R Dumler #1-21\Cholla R&R Dumler #1-21_001.dta

General Constants All 000
Last Edited on 25-JUL-2017,20:06

General Parameters		
Mud Resistivity	0.770	ohm-metres
Mud Resistivity Temperature	75.000	degrees F
Water Level	0.000	feet
Borehole Fluid Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters		
HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	5.500	inches
Caliper for Differential Caliper	None	

Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.620	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

Down-hole Tension Calibration SMS 0

Field Calibration on 21-JUL-2017 22:14

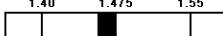
Reading No	Measured	Calibrated (lbs)
1	14039.09	0.00
2	14869.52	481.00

Gamma Calibration MCG-C 84

Field Calibration on 24-JUL-2017 07:22

	Measured	Calibrated (API)
Background	107	74
Calibrator (Gross)	771	530
Calibrator (Net)	664	456

Gamma Calibration Tolerances MCG-C 84

Ratio 1.456  Counts/API

Gamma Constants MCG-C 84

Last Edited on 25-JUL-2017,19:02

Gamma Calibrator Number	MCGGRCC141	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.14	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

SP Calibration MCG-C 84

Field Calibration on 03-JUL-2017,10:23

	Measured	Calibrated (mV)
Reference 1	104.4	100.1
Reference 2	-95.8	-100.1

High Resolution Temperature Calibration MCG-C 84

Field Calibration on 03-JUL-2017,10:23

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MCG-C 84

Last Edited on 09-SEP-2014,02:23

Pre-filter Length 11

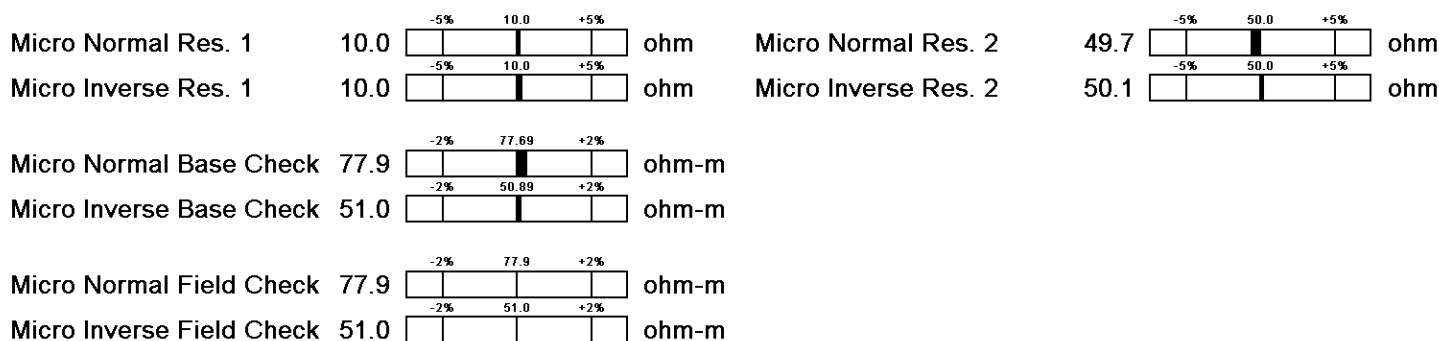
Micro Normal and Micro Inverse Calibration MML-A 7

Base Calibration on 21-JUL-2017,09:26
Field Check on 25-JUL-2017 19:55

Base Calibration				
		Measured	Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	10.0	49.7	5.1	25.6
Micro Inverse	10.0	50.1	3.4	16.9

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	77.9	77.9
Micro Inverse	51.0	51.0

Micro Normal & Micro Inverse Calibration Tolerance MML-A 7



Micro Normal and Micro Inverse Constants MML-A 7

Last Edited on 25-JUL-2017,19:54

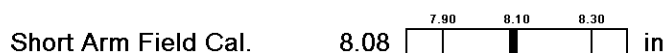
Pad Type 8-12 in Soft Rubber Inflatable 006-9011-159
 Micro Normal K Factor 0.5110
 Micro Inverse K Factor 0.3380
 Standoff Offset N/A inches

Caliper Calibration MML-A 7

Base Calibration on 21-JUL-2017,09:17
 Field Calibration on 25-JUL-2017 19:53

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	13752	5.98
2	16863	7.97
3	19899	9.86
4	23808	11.92
5	0	0.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	8.08	8.10

Caliper Calibration Tolerances MML-A 7

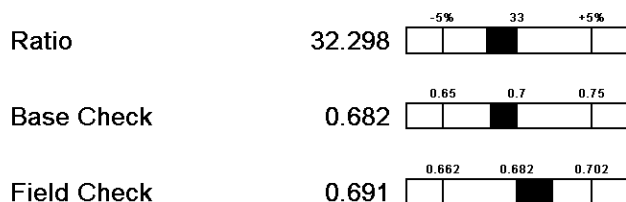


Neutron Calibration MDN-A.B 114

Base Calibration on 21-JUL-2017,14:44
 Field Check on 24-JUL-2017 07:26

Base Calibration				
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3156	98	3714	110
Ratio	32.298		33.764	
Field Calibrator at Base				
			Calibrated (cps)	
			2073	3042
Ratio			0.682	
Field Check				
			Calibrated (cps)	
			2103	3042
Ratio			0.691	

Neutron Calibration Tolerances MDN-A.B 114



Neutron Constants MDN-A.B 114

Last Edited on 25-JUL-2017,19:02

Neutron Source Id P0204NN
 Neutron Log Number N15726

Neutron Jig Number	NJ5736	
Air Hole Processing	Modified Ratio	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-B.J 352

Base Calibration on 21-JUL-2017,09:08
Field Check on 25-JUL-2017 19:38

Base Calibration		Measured	Calibrated (ohm-m)
Reference 1		0.0	0.0
Reference 2		966.4	126.8
Base Check			280.6
Field Check			280.2

FE Calibration Tolerances MFE-B.J 352

Reference 2	966.4	-3%966.4+3%	ohm
Base Check	280.6	-2%280.6+2%	ohm-m
Field Check	280.2	-2%280.2+2%	ohm-m

FE Constants MFE-B.J 352

Last Edited on 25-JUL-2017,19:37

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Borehole Correction Constants		
Sonde Position	0.5	inches
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	

Sonic Constants MSS-A.A 55

Last Edited on 25-JUL-2017,19:01

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft
Sonde Mode	Compensated	
Hole Type	Open Hole	
Sonde Parameters		
	Measured	Calibrated
Offset	N/A	0.0000
Free Pipe	N/A	N/A

Peak Amplitude Source	N/A				
Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing	N/A				
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A		
N/A	N/A	N/A			
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
Waveform Discriminator Filter	N/A	
Semblance Window Width	N/A	micro-sec
Sonic Despiker	N/A	N/A

High Resolution Temperature Calibration MAI-A.A 111

Field Calibration on 03-JUL-2017,10:17

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-A.A 111

Last Edited on 26-JUN-2014,15:06

Pre-filter Length	11
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Induction Calibration MAI-A.A 111

Base Calibration on 21-JUL-2017,10:20

Field Check on 25-JUL-2017 19:49

Base Calibration

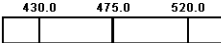
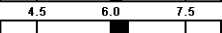
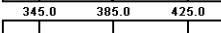
Test Loop Calibration	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
Channel 1	17.6	473.6	9.3	966.2
2	6.4	385.9	7.6	821.4
3	3.2	264.0	5.2	566.0
4	2.1	135.5	2.6	279.2

Array Temperature	23.0	Deg F
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Test Loop Calibration Verified

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	13.7	3869.0	16.4	3871.1
2	30.1	3523.0	32.4	3524.7
3	29.2	3017.0	31.2	3018.2
4	19.2	2055.4	20.5	2056.1
Deep	17.8	1959.3	19.2	1960.0
Medium	43.1	3970.5	45.7	3972.2
Shallow	44.9	5225.2	48.2	5227.9
Array Temperature	95.2		97.0	
			Deg F	

Induction Calibration Tolerances MAI-A.A 111

Low Conductivity 1	17.6		mmho/m High Conductivity 1	473.6		mmho/m
Low Conductivity 2	6.4		mmho/m High Conductivity 2	385.9		mmho/m

Low Conductivity 2	0.4		mmho/m High Conductivity 2	383.9		mmho/m
Low Conductivity 3	3.2		mmho/m High Conductivity 3	264.0		mmho/m
Low Conductivity 4	2.1		mmho/m High Conductivity 4	135.5		mmho/m
Background Vx 1	0.0		mmho/m Phase Check Loop 1	0.0		%
Background Vx 2	0.0		mmho/m Phase Check Loop 2	0.0		%
Background Vx 3	0.0		mmho/m Phase Check Loop 3	0.0		%
Background Vx 4	0.0		mmho/m Phase Check Loop 4	0.0		%

Induction Constants MAI-A.A 111

Last Edited on 25-JUL-2017,20:06

Induction Model		RtAP-WBM	
Borehole Correction Constants			
Tool Centred		No	
Hole Size Source		Density Caliper	
Hole Size Constant Value		N/A	inches
Stand-off Type		Fins	
Stand-off		0.50	inches
Number of Fins on Stand-off		8.0000	
Stand-off Fin Angle		45.00	degrees
Stand-off Fin Width		0.5000	inches
Rm Source	Global Value: Temperature Corrected		
Temp. for Rm Corr.	MCG External Temperature		
Squasher Start		0.0020	mhos/metre
Squasher Offset		N/A	mhos/metre
Borehole Normalisation			
DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000
Calibration Site Corrections			
Channel 1		0.00	mmhos/metre
Channel 2		0.00	mmhos/metre
Channel 3		0.00	mmhos/metre
Channel 4		0.00	mmhos/metre
Symmetrised Receiver Gains			
Receiver 1		1.00	
Receiver 2		1.00	
Receiver 3		1.00	
Receiver 4		1.00	
Apparent Porosity and Water Saturation Constants			
Archie Constant (A)		1.00	
Cementation Exponent (M)		2.00	
Saturation Exponent (N)		2.00	
Saturation of Water for Apor		100.00	percent
Resistivity of Water for Apor and Sw		0.05	ohm-m
Resistivity of Mud Filtrate for Sw		0.00	ohm-m
Source for Rt		0.00	
Source for Rxo		0.00	

Photo Density Calibration MPD-C.A 216

Base Calibration on 21-JUL-2017,11:29
Field Check on 25-JUL-2017 19:37

Density Calibration				
Base Calibration		Measured		Calibrated (sdu)
	Near	Far	Near	Far
Background	1034	1215		
Reference 1	51875	24845	59556	30836
Reference 2	20527	2316	24941	2541
Field Check at Base				
	1033.8	1215.4		

Field Check

1026.3 1216.8

PE Calibration

Base Calibration

Measured

Calibrated

	WS	WH	Ratio
Background	189	925	
Reference 1	21486	51702	0.419
Reference 2	5928	20410	0.295

Ratio

0.371

0.272

Field Check at Base

189.2 924.8

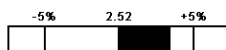
Field Check

186.9 927.3

Photo Density Calibration Tolerances MPD-C.A 216

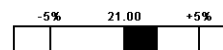
Near Density Ratio

2.61



Far Density Ratio

21.48



PE Calibration

0.116



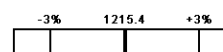
Near Den. Field Check

1026.3



Far Den. Field Check

1216.8



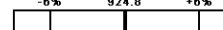
PE WS Field Check

186.9



PE WH Field Check

927.3



Density Constants MPD-C.A 216

Last Edited on 25-JUL-2017,19:49

Density Source Id	P50557B	
Nylon Calibrator Number	DNCE695	
Aluminium Calibrator Number	DACD698	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.14	gm/cc
Mud Density Type		
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Precision Enhanced Density Processing	Not Applied	
Matrix Density (gm/cc)	Depth (ft)	
2.71	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Caliper Calibration MPD-C.A 216

Base Calibration on 21-JUL-2017,11:21

Field Calibration on 25-JUL-2017 19:52

Base Calibration

Reading No

Measured

Calibrator Size (in)

1	18416	3.99
2	28544	5.98
3	38624	7.97
4	48448	9.86
5	59555	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)

8.05

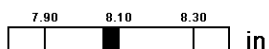
Actual Caliper (in)

8.10

Caliper Calibration Tolerances MPD-C.A 216

Short Arm Field Cal.

8.05



DOWNHOLE EQUIPMENT

C:\Minimus 17.01.7206\Data\Cholla R&R Dumler #1-21\Cholla R&R Dumler #1-21_001.dta

Cablehead, 11 pin
CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

Compact Comms Gamma
MCG-C 84 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-log
MML-A 7 LG: 7.97 ft WT: 81.6 lb OD: 2.244 in

Compact Neutron
MDN-A.B 114 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

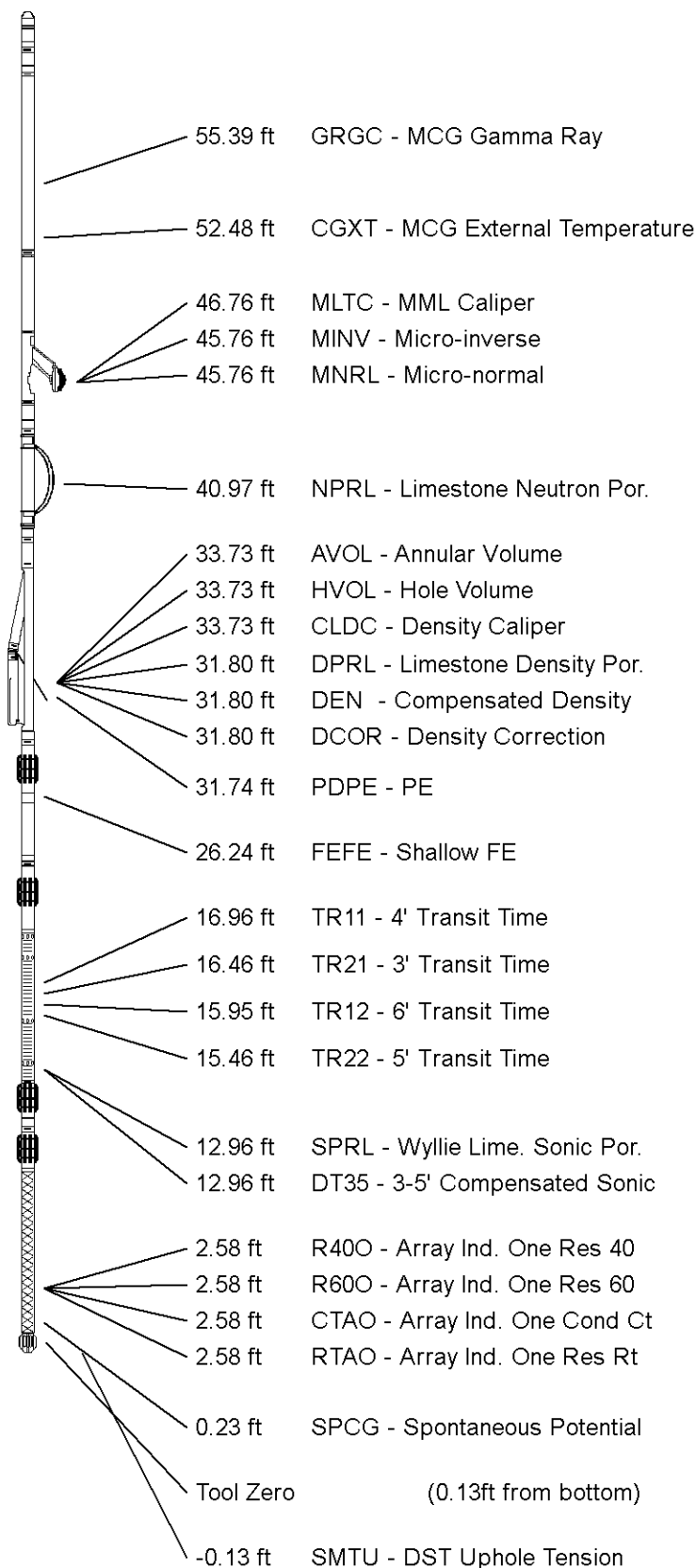
Compact Density/Caliper
MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Focussed Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Sonic
MSS-A.A 55 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

Compact Induction
MAI-A.A 111 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 63.07 ft Weight: 480.6 lb



All measurements relative to tool zero.

COMPANY
WELL
FIELD

CHOLLA PRODUCTION, LLC.
R&R DUMLER #1-21
WILDCAT

PROVINCE/COUNTY		HODGEMAN			
COUNTRY/STATE		U.S.A. / KANSAS			
Elevation Kelly Bushing	2474	feet	First Reading	4887.00	feet
Elevation Drill Floor	2472	feet	Depth Driller	4920.00	feet
Elevation Ground Level	2469	feet	Depth Logger	4919.00	feet
 Weatherford[®] COMPACT PHOTO DENSITY COMPENSATED NEUTRON MICRORESISTIVITY LOG					