



Weatherford

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG**

COMPANY										McCOY PETROLEUM CORPORATION											
WELL										SCHWAB "A" 1-7											
FIELD										WILDCAT											
PROVINCE/COUNTY										MEADE											
COUNTRY/STATE										U.S.A. / KANSAS											
LOCATION										1980' FSL & 330' FEL											
SEC 7		TWP 30S		RGE 30W		Other Services															
Latitude		Longitude		MAI/MFE																	
API Number		15-119-21362																			
Permanent Datum GL, Elevation 2814 feet																					
Log Measured From KB																					
Drilling Measured From KB																					
Date		14-MAR-2014																			
Run Number		ONE																			
Service Order		7557-81970693																			
Depth Driller		5550.00										feet									
Depth Logger		5549.00										feet									
First Reading		5521.00										feet									
Last Reading		4000.00										feet									
Casing Driller		1829.00										feet									
Casing Logger		1828.00										feet									
Bit Size		7.875										inches									
Hole Fluid Type		CHEMICAL																			
Density / Viscosity		9.30		lb/USg		50.00		CP													
PH / Fluid Loss		10.50				8.80		ml/30Min													
Sample Source		FLOWLINE																			
Rm @ Measured Temp		1.21		@ 93.0		ohm-m															
Rmf @ Measured Temp		0.97		@ 93.0		ohm-m															
Rmc @ Measured Temp		1.45		@ 93.0		ohm-m															
Source Rmf / Rmc		CALC				CALC															
Rm @ BHT		0.96		@ 117.0		ohm-m															
Time Since Circulation		3 HOURS																			
Max Recorded Temp		117.00				deg F															
Equipment / Base		13244		LIB																	
Recorded By		RUSSELL POGUE										JEFFREY RANDLE									
Witnessed By		DAVE WILLIAMS																			
JOB #		LIB14-076																			

BOREHOLE RECORD			Last Edited: 14-MAR-2014 03:04	
Bit Size inches	Depth From feet		Depth To feet	
7.875	1829.00		5550.00	
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1829.00	24.00

REMARKS
- SOFTWARE ISSUE: WLS 13.08.211.
- RUN ONE: MCG, MML, MDN, MPD, MFE AND MAI RUN IN COMBINATION. - HARDWARE: DUAL BOWSPRING USED ON MDN. 0.5 INCH STANDOFF USED ON MFE. 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 4000 FEET: 529 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 4000 FEET: 275 CU.FT.
- RIG: STERLING DRILLING #2

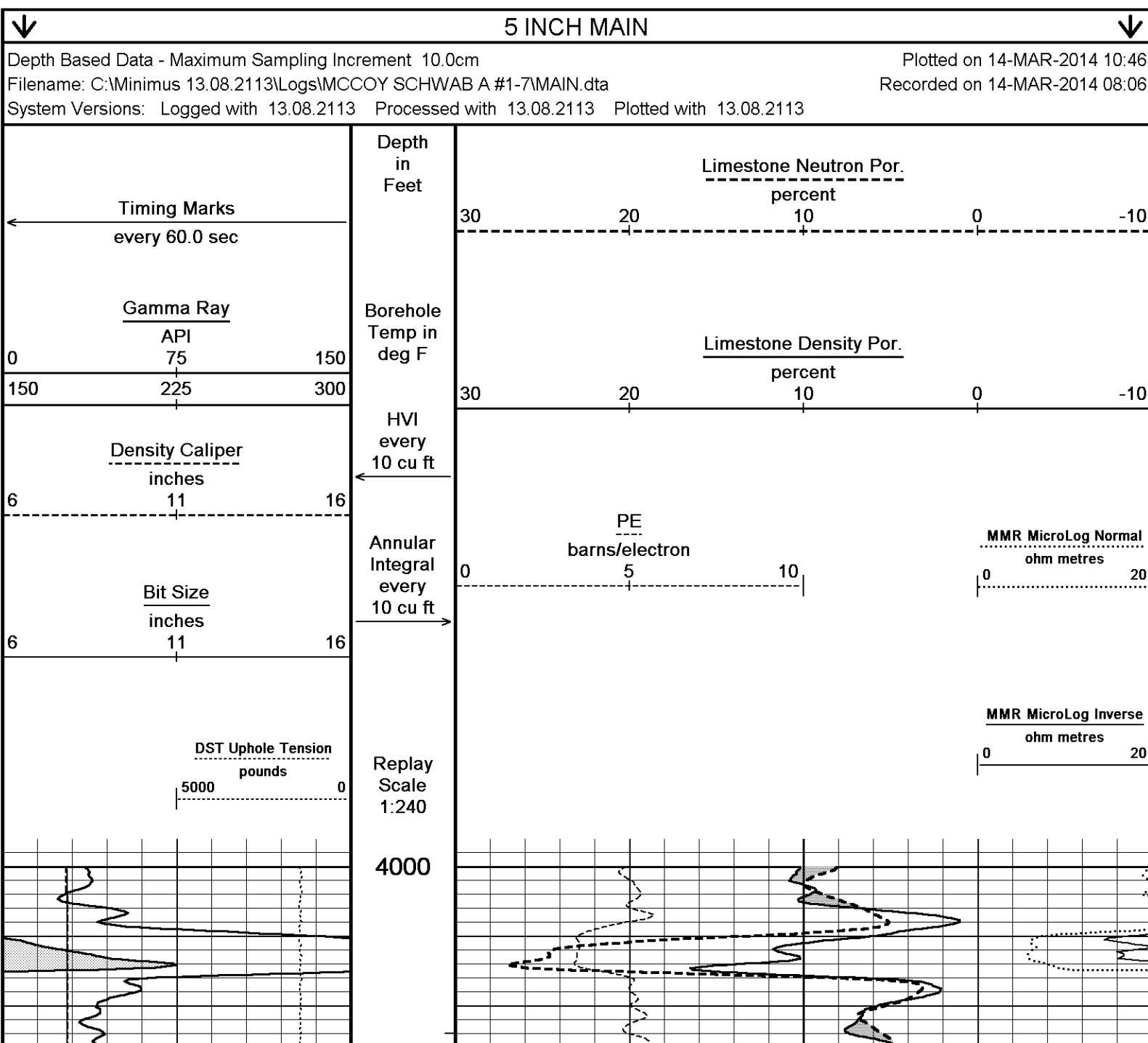
RIS: OPERING DRILLING #2:

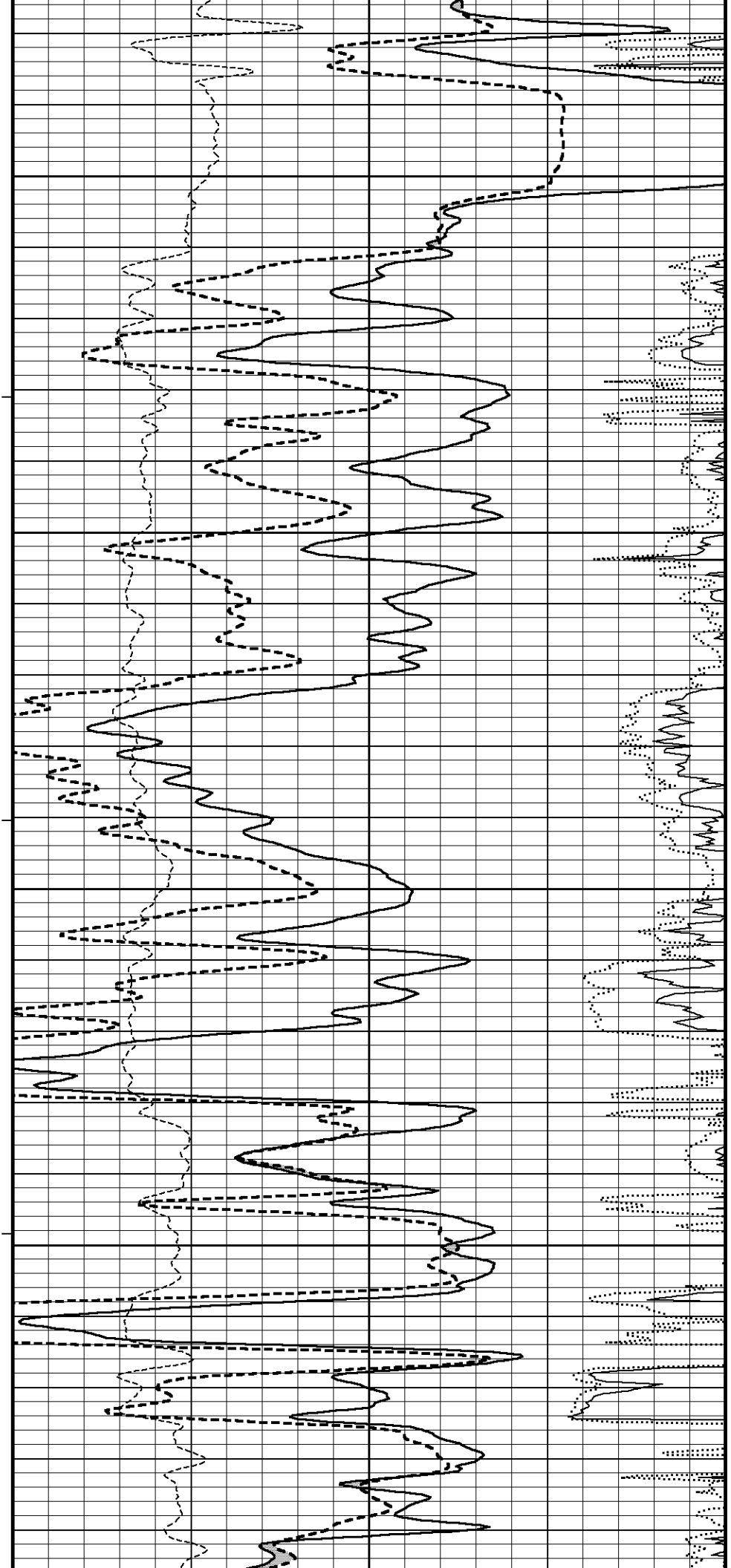
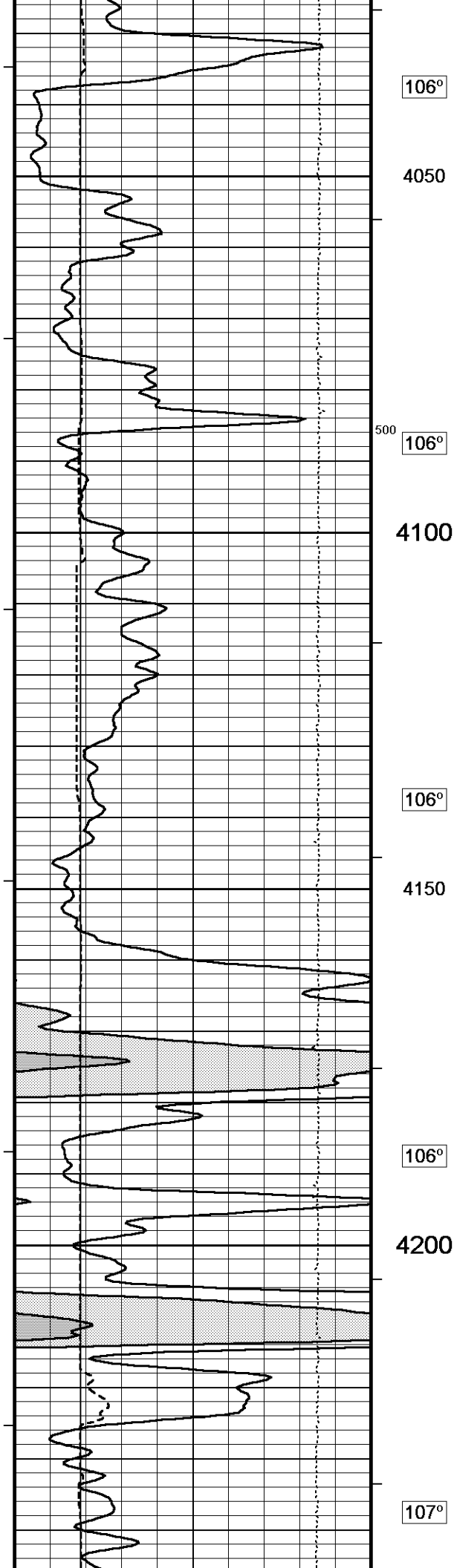
- ENGINEER: R. POGUE.

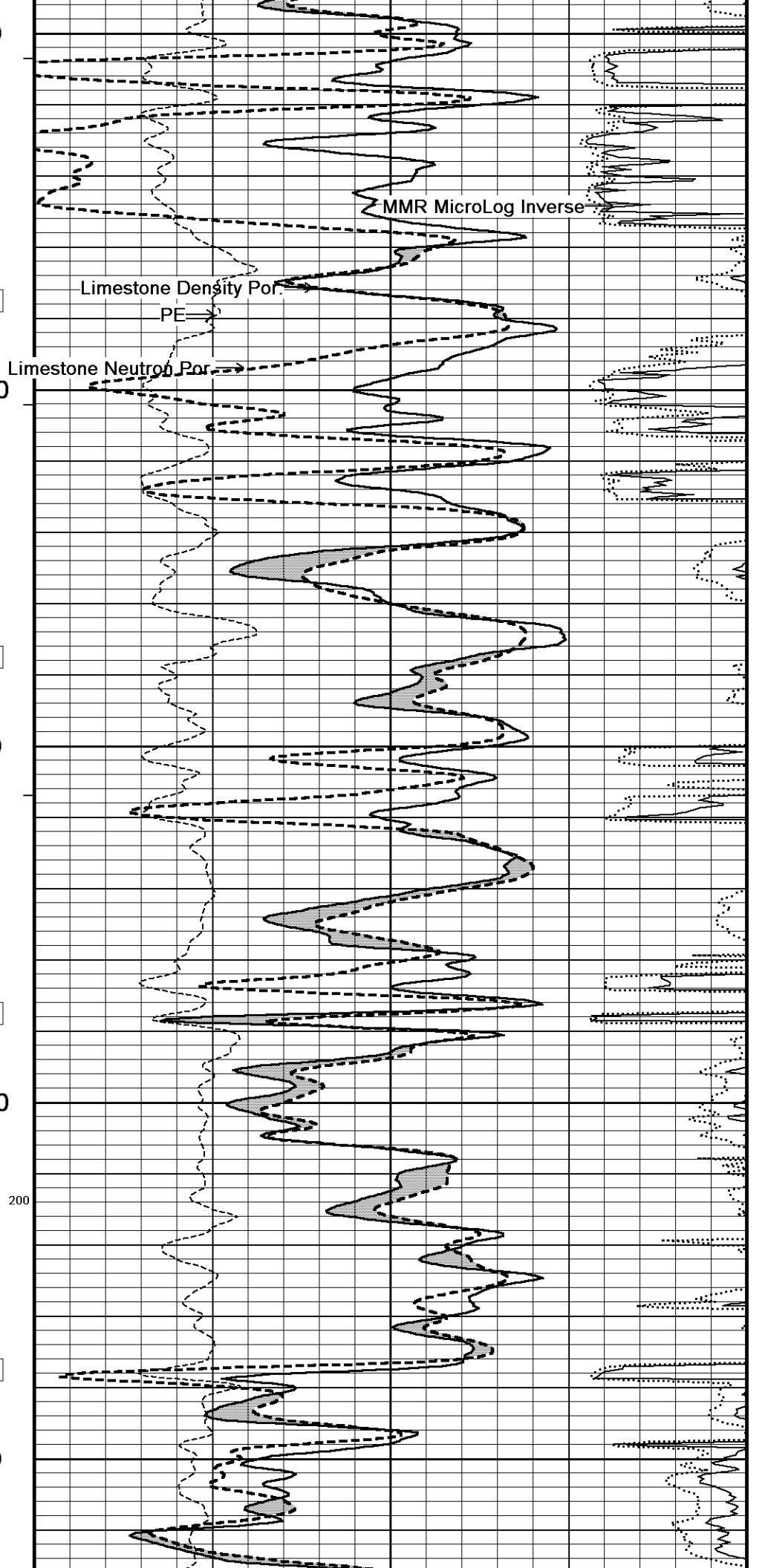
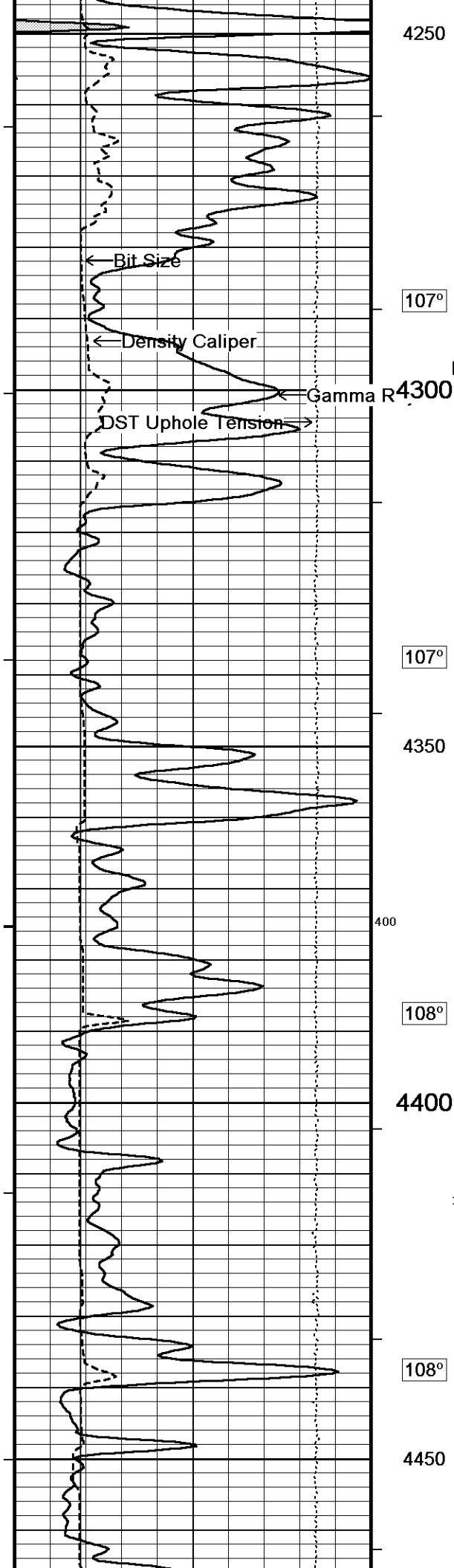
- JUNIOR FIELD ENGINEER: J. RANDLE.

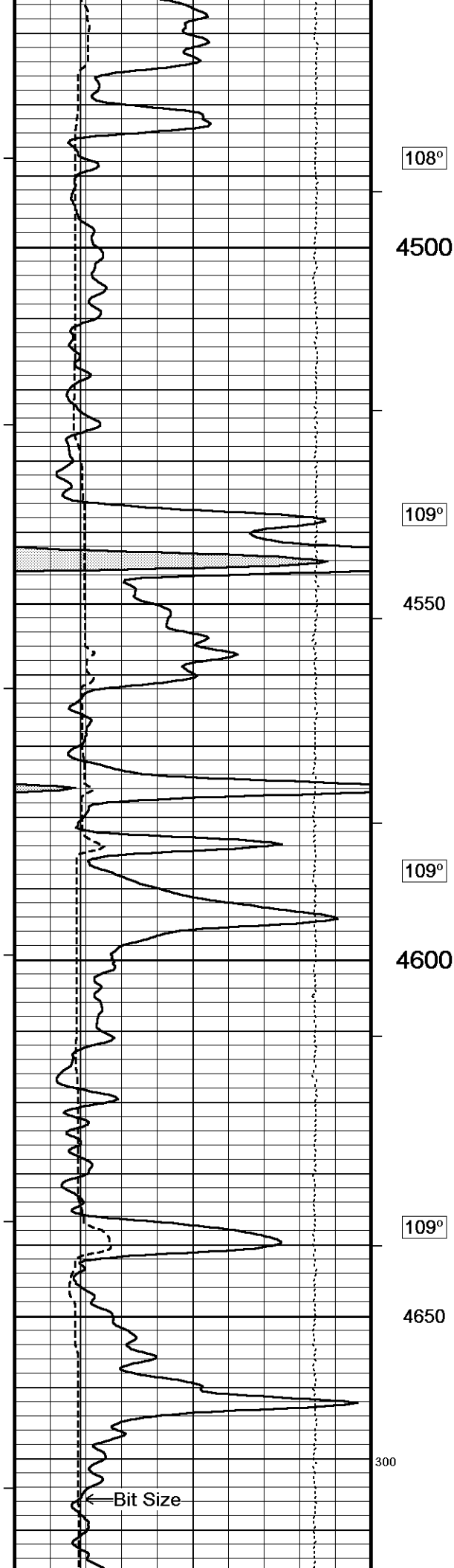
- OPERATOR: J. LaPOINT.

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.









108°

4500

109°

4550

109°

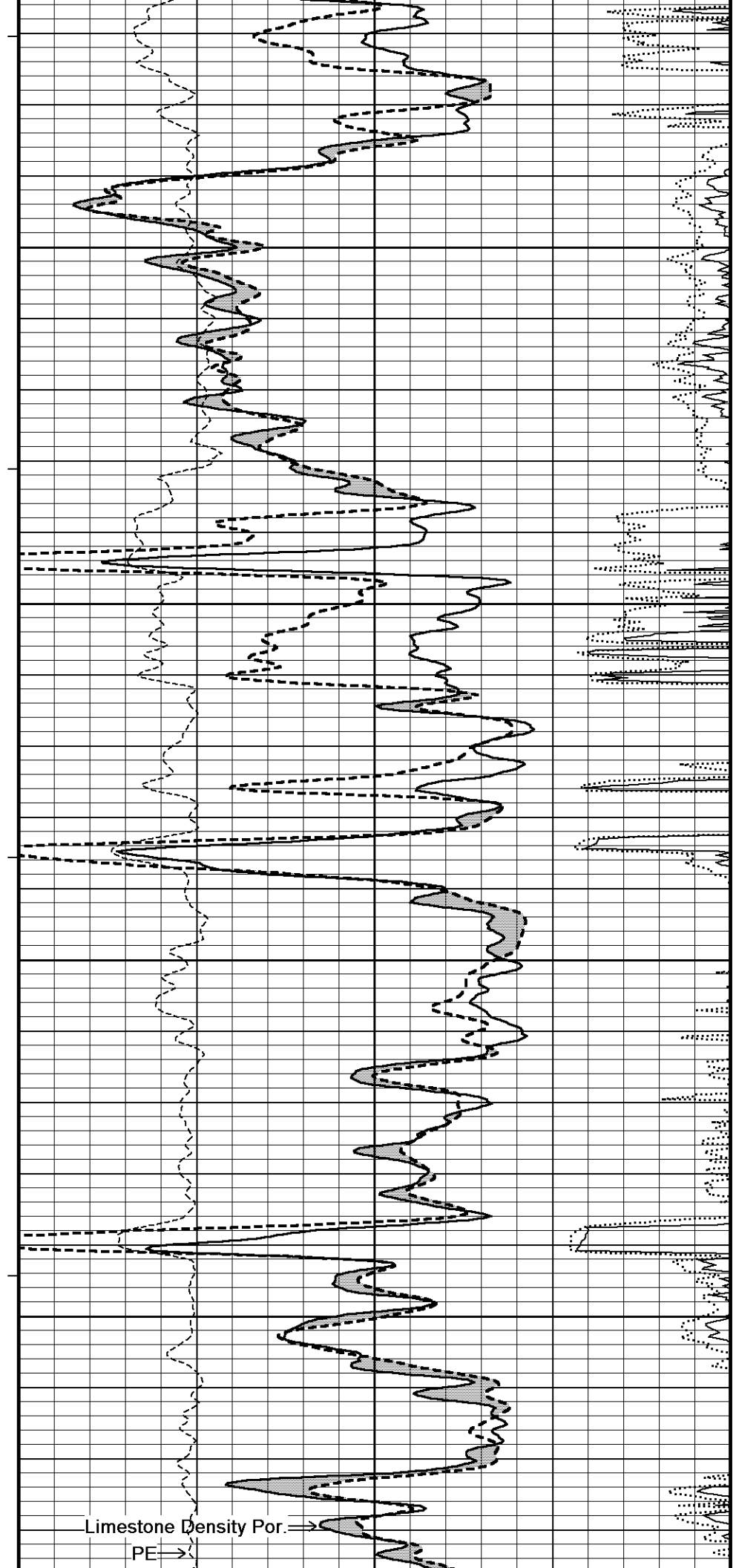
4600

109°

4650

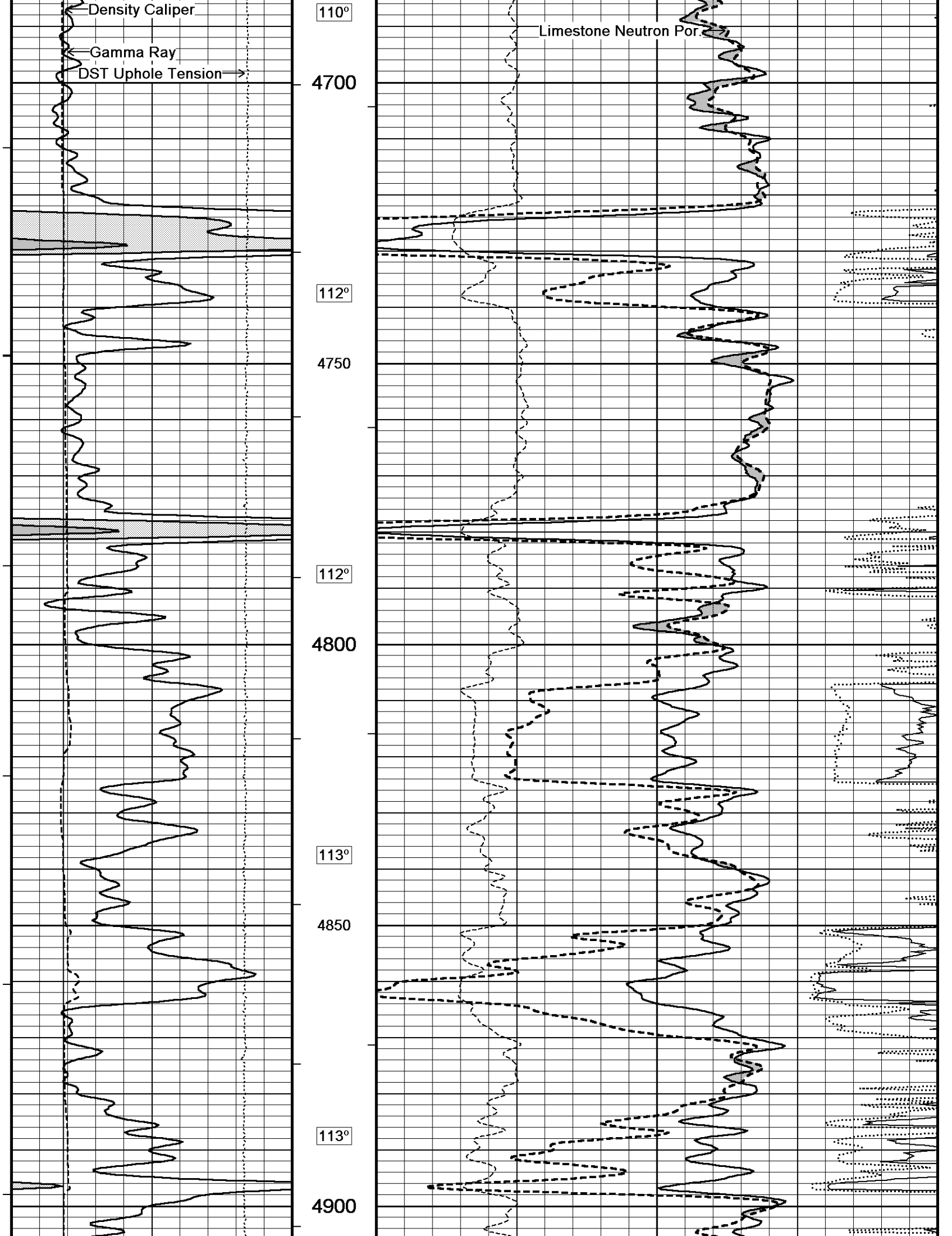
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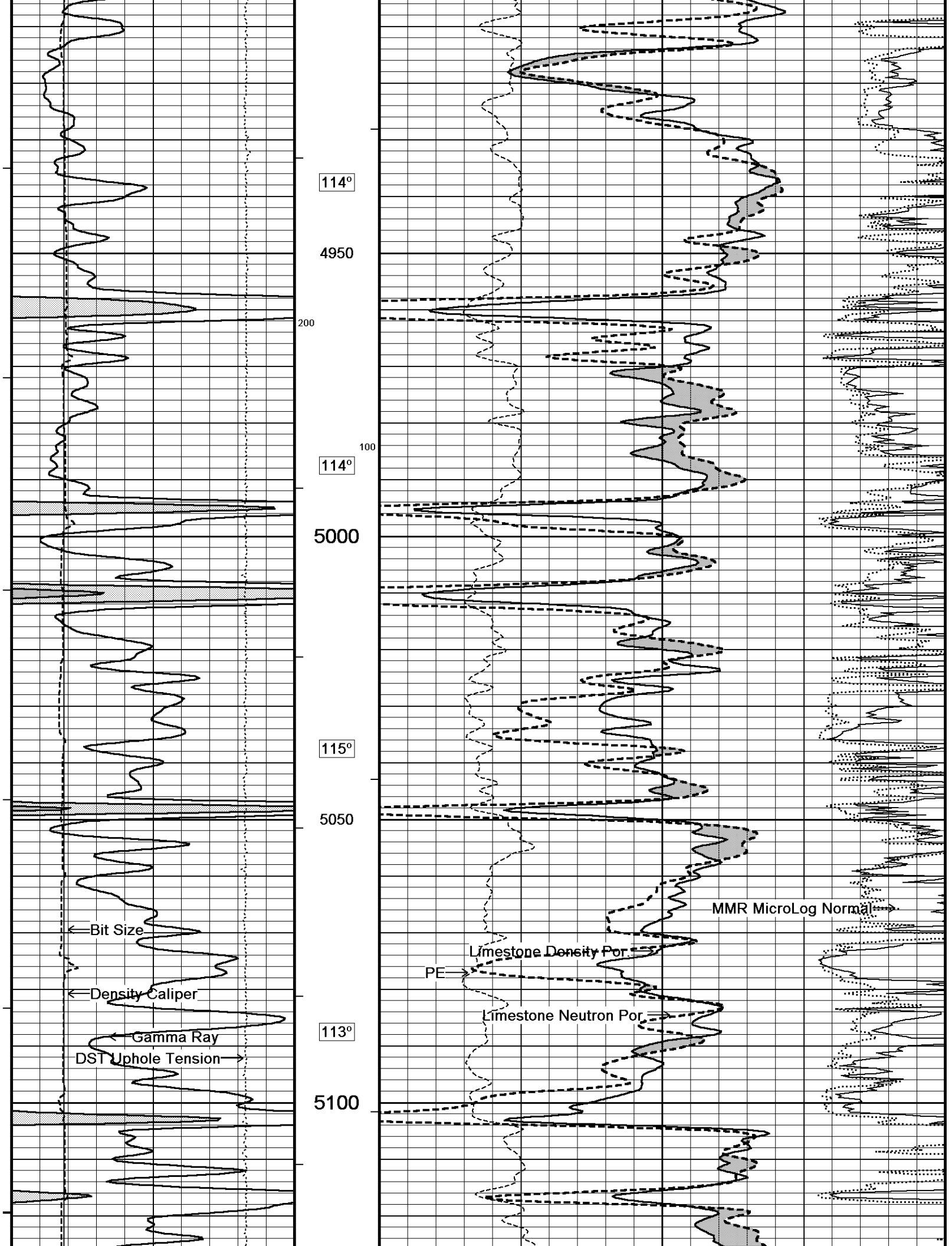
Bit Size

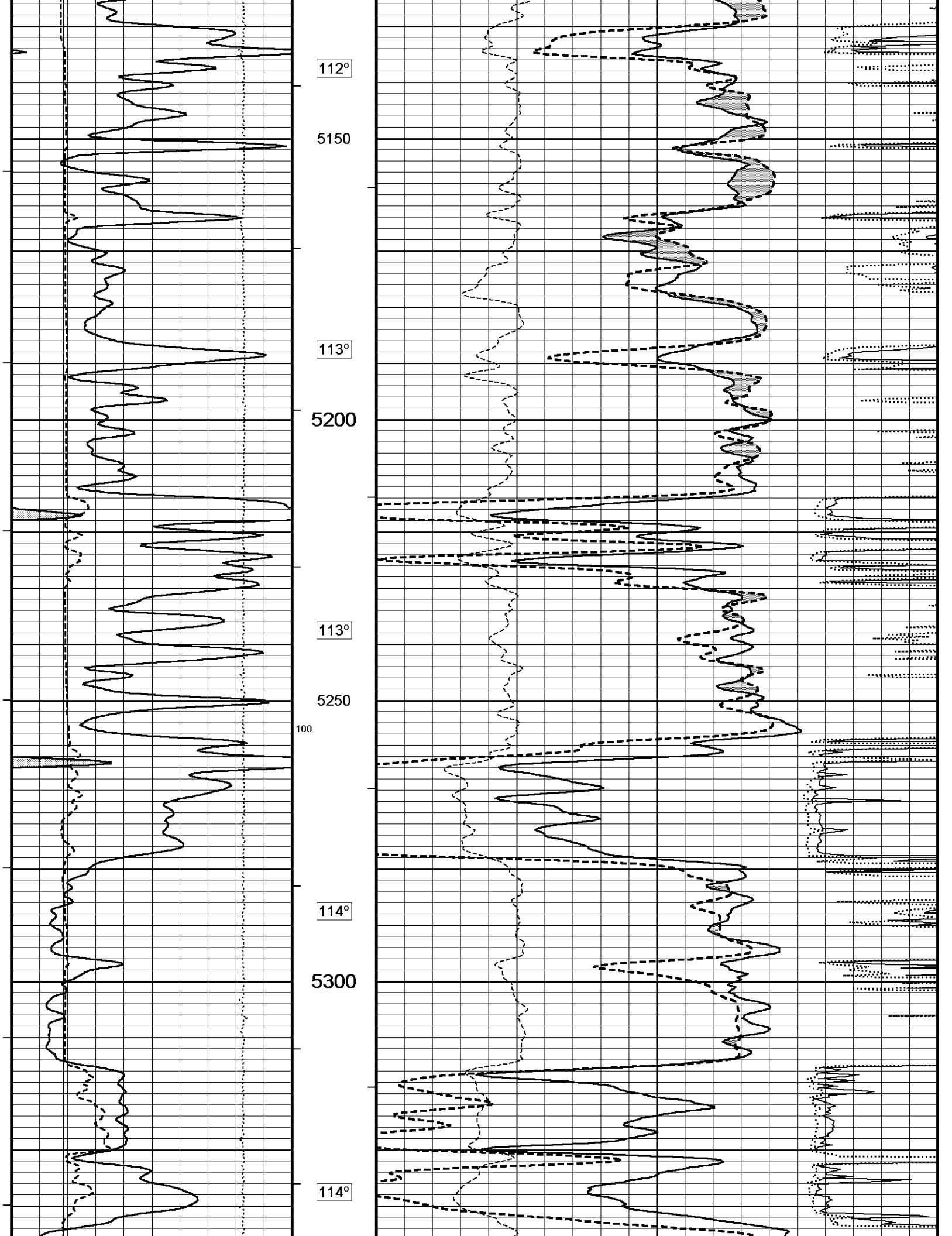


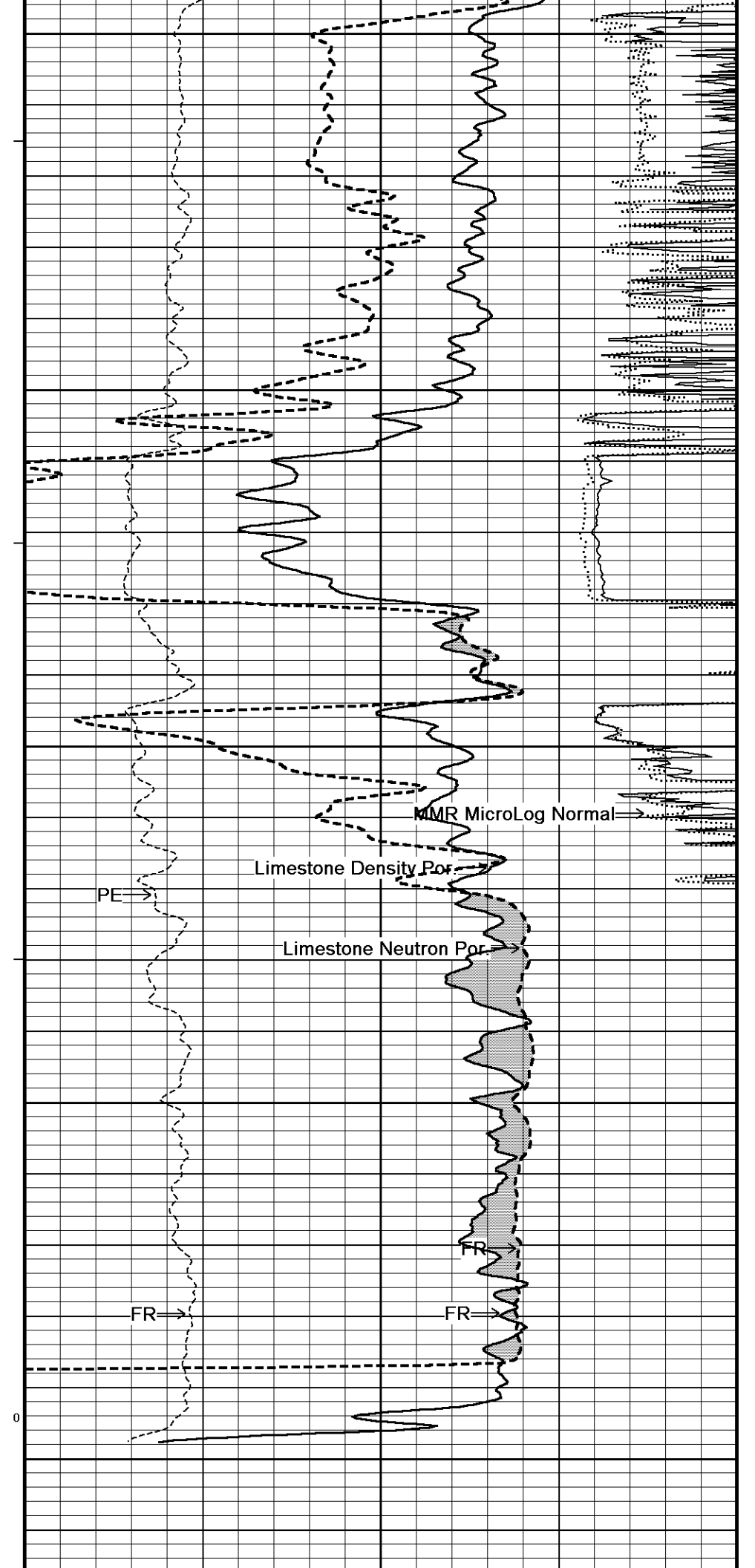
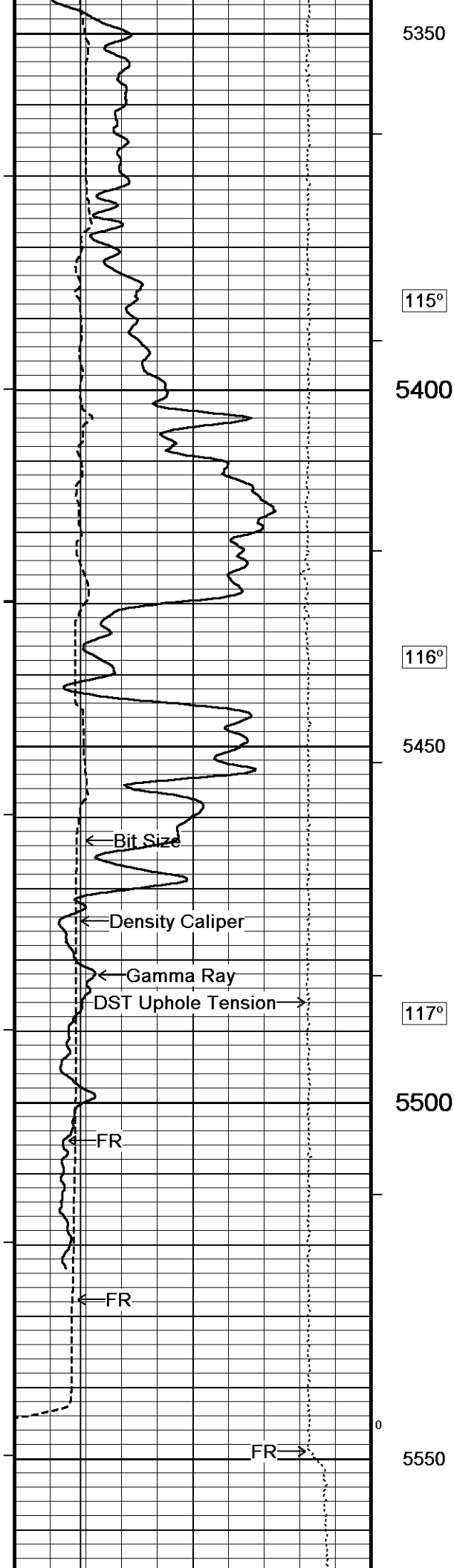
Limestone Density Por.

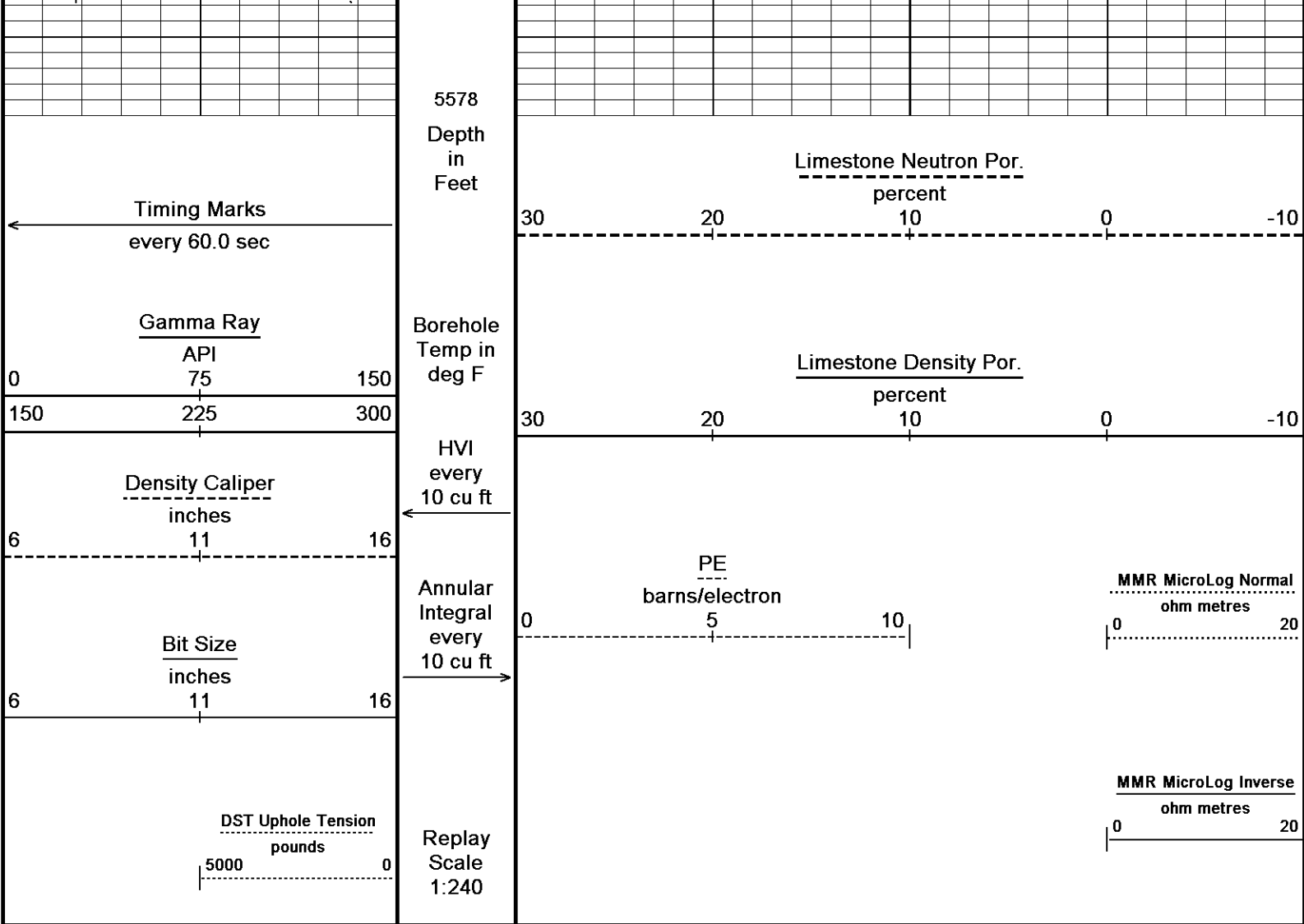
PE











Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 14-MAR-2014 10:46

Filename: C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\MAIN.dta

Recorded on 14-MAR-2014 08:06

System Versions: Logged with 13.08.2113 Processed with 13.08.2113 Plotted with 13.08.2113

5 INCH MAIN

REPEAT SECTION

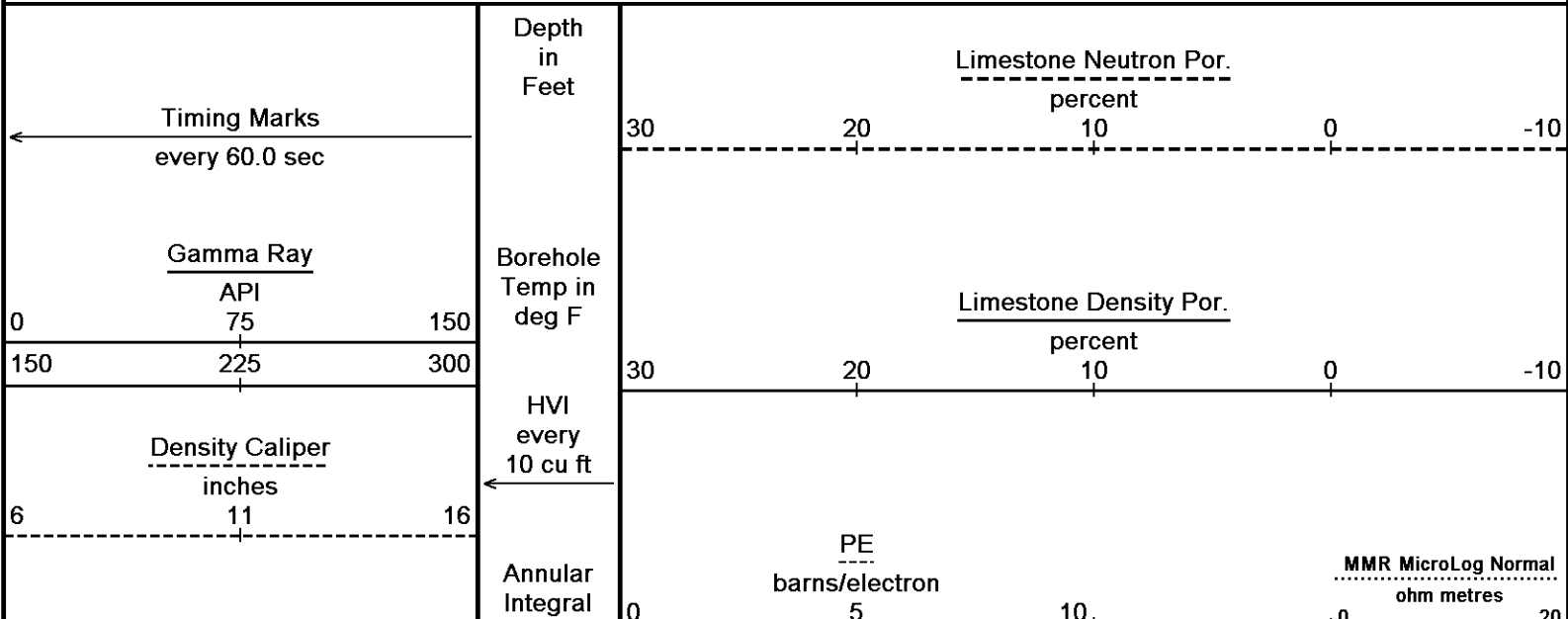
Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 14-MAR-2014 10:46

Filename: C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\REPEAT.dta

Recorded on 14-MAR-2014 07:49

System Versions: Logged with 13.08.2113 Processed with 13.08.2113 Plotted with 13.08.2113



Bit Size
inches

6 11 16

DST Uphole Tension
pounds

5000 0

every
10 cu ft

Replay
Scale
1:240

MMR MicroLog Inverse
ohm metres

0 20

5200

112°

5250

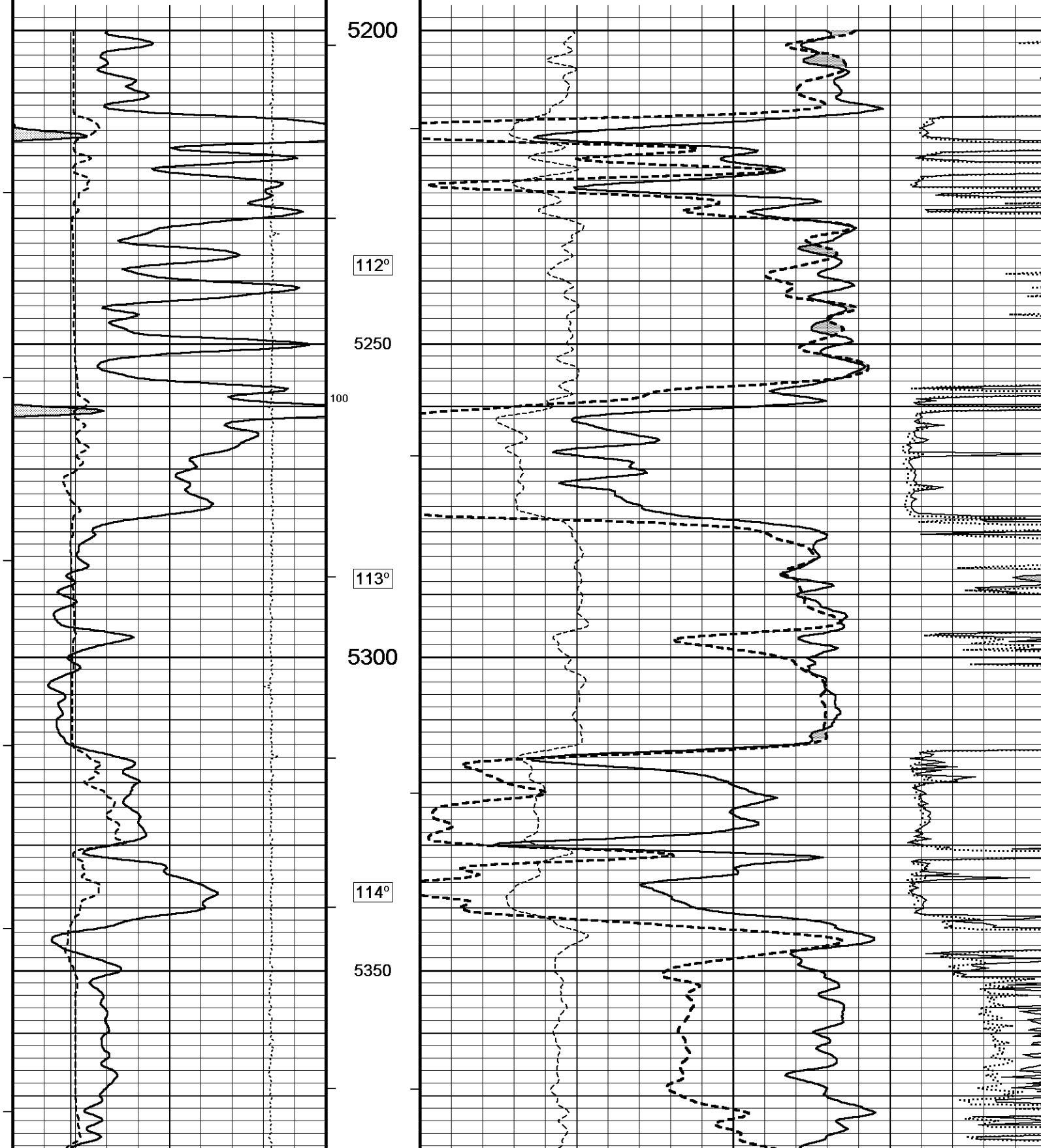
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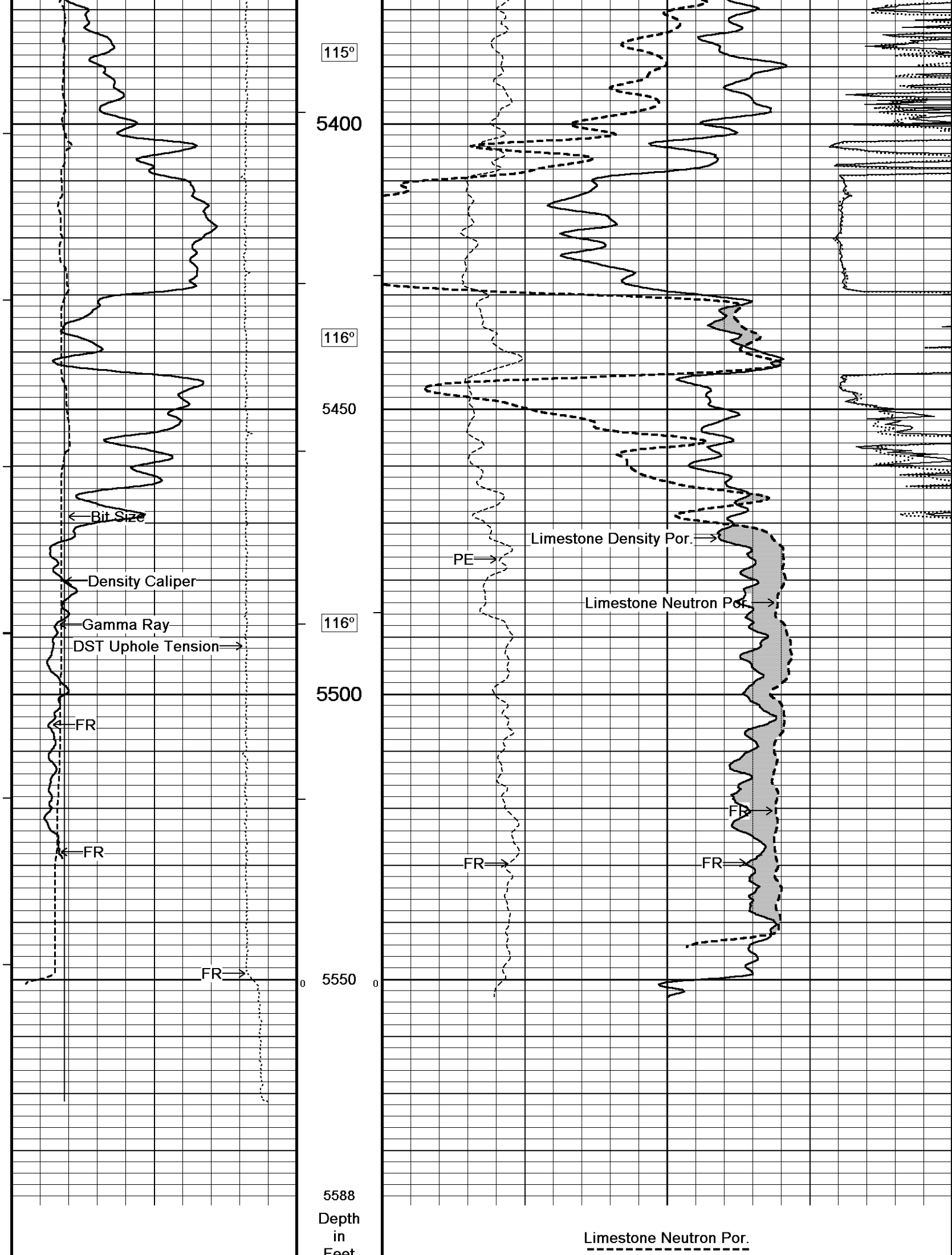
113°

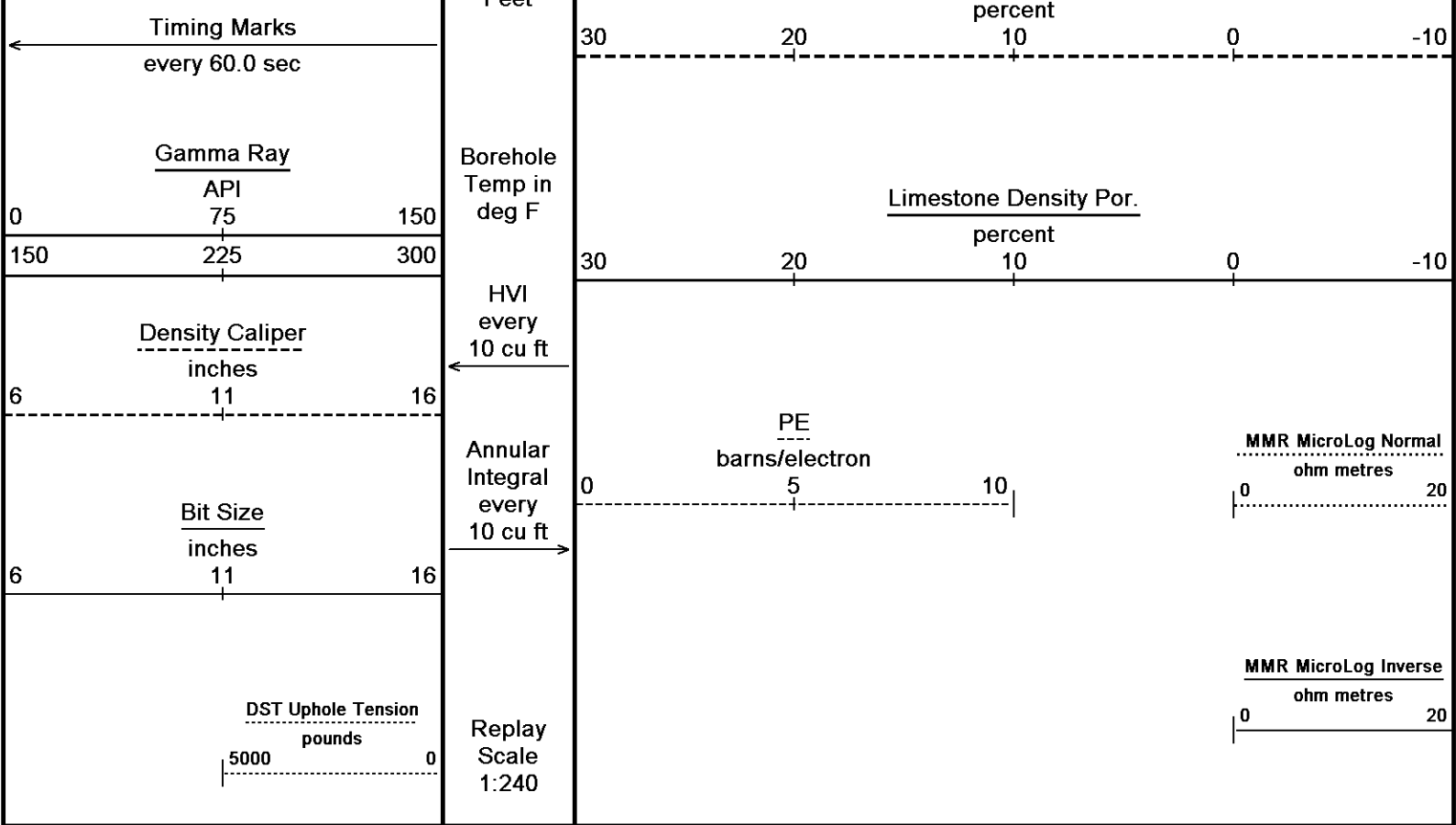
5300

114°

5350





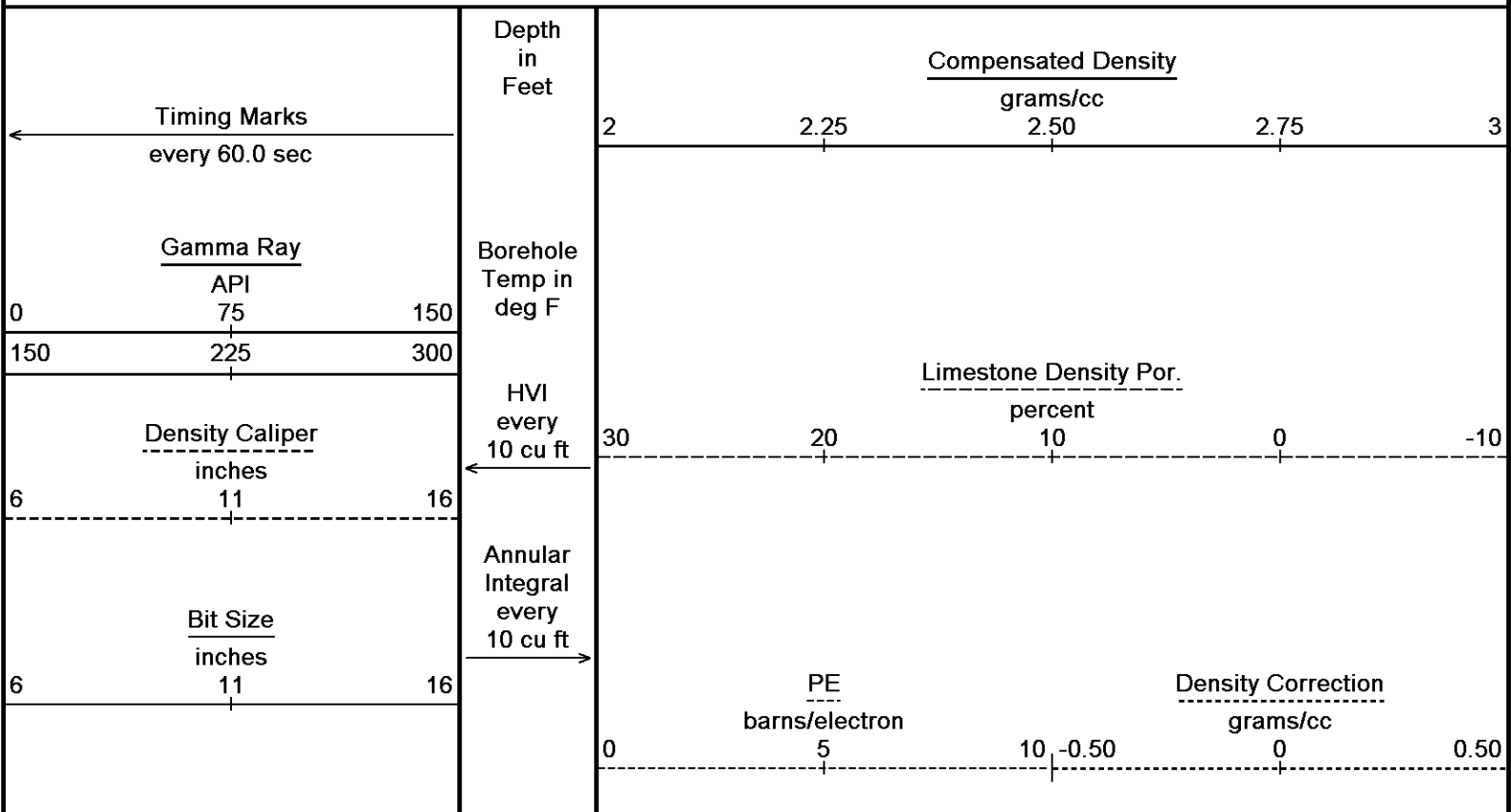


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-MAR-2014 10:46
 Filename: C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\REPEAT.dta Recorded on 14-MAR-2014 07:49
 System Versions: Logged with 13.08.2113 Processed with 13.08.2113 Plotted with 13.08.2113

↑ REPEAT SECTION ↑

↓ 5 INCH MAIN ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-MAR-2014 10:46
 Filename: C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\MAIN.dta Recorded on 14-MAR-2014 08:06
 System Versions: Logged with 13.08.2113 Processed with 13.08.2113 Plotted with 13.08.2113



DST Uphole Tension
pounds

5000 0

Replay
Scale
1:240

4000

106°

4050

500 106°

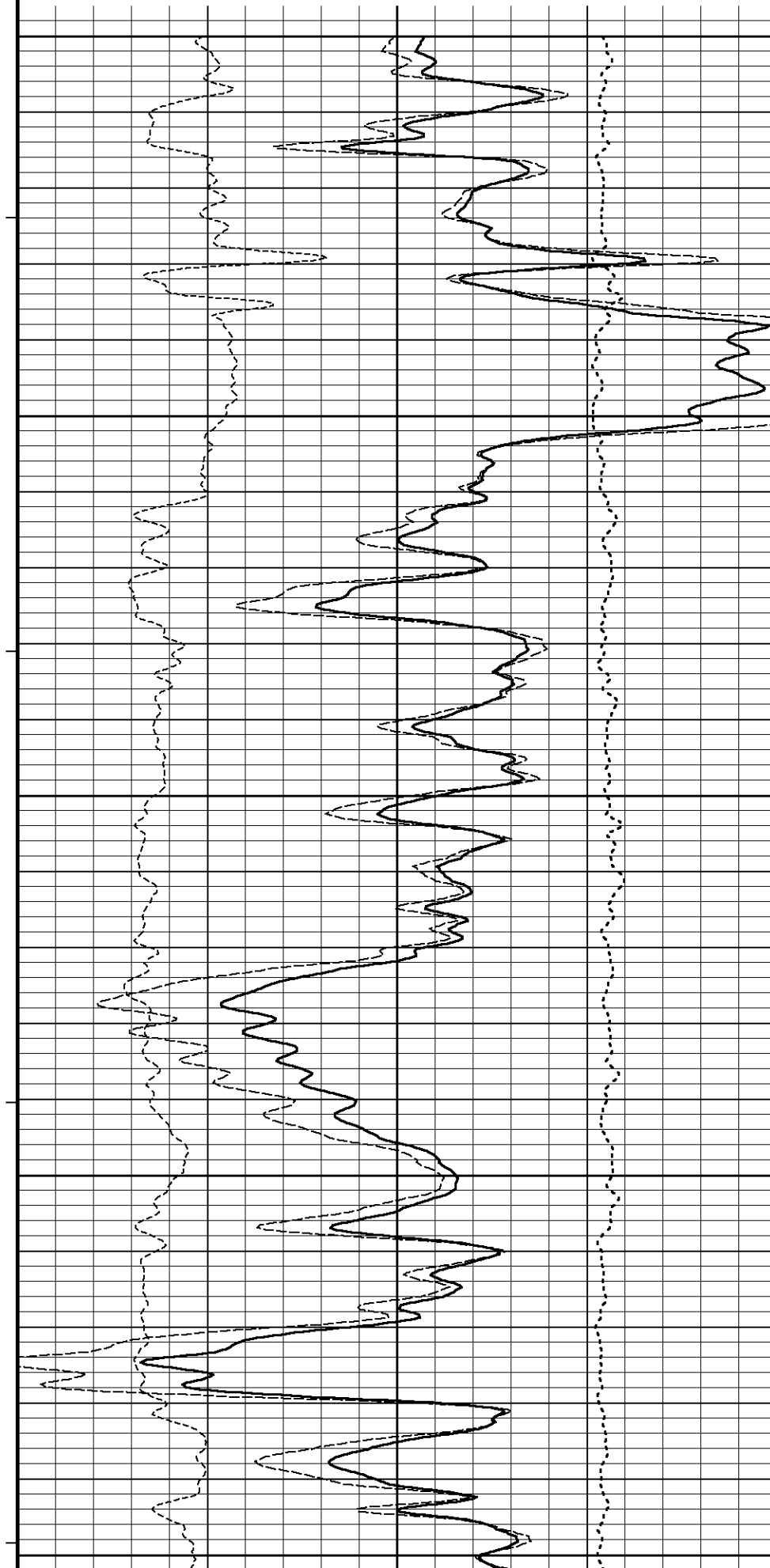
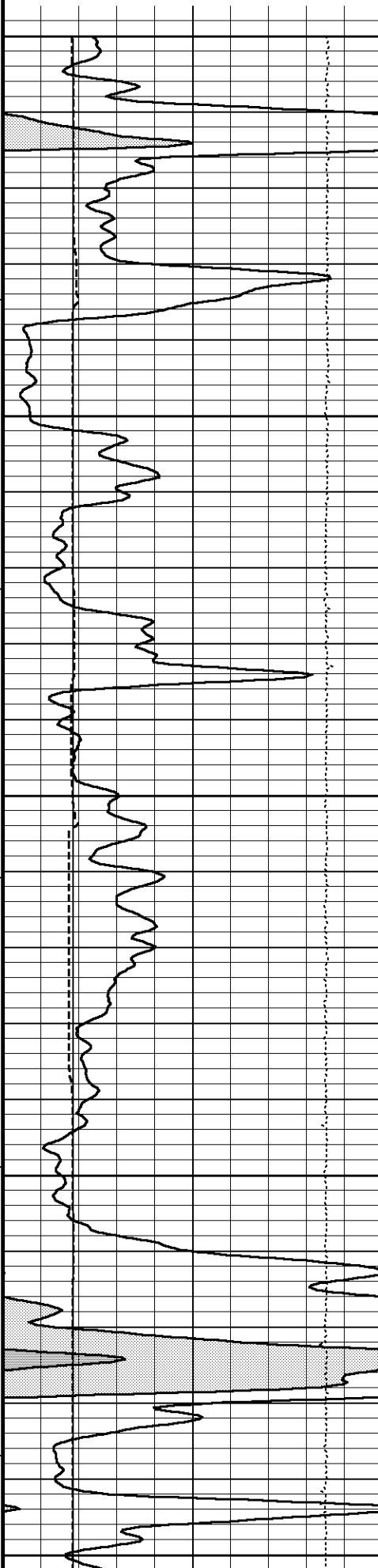
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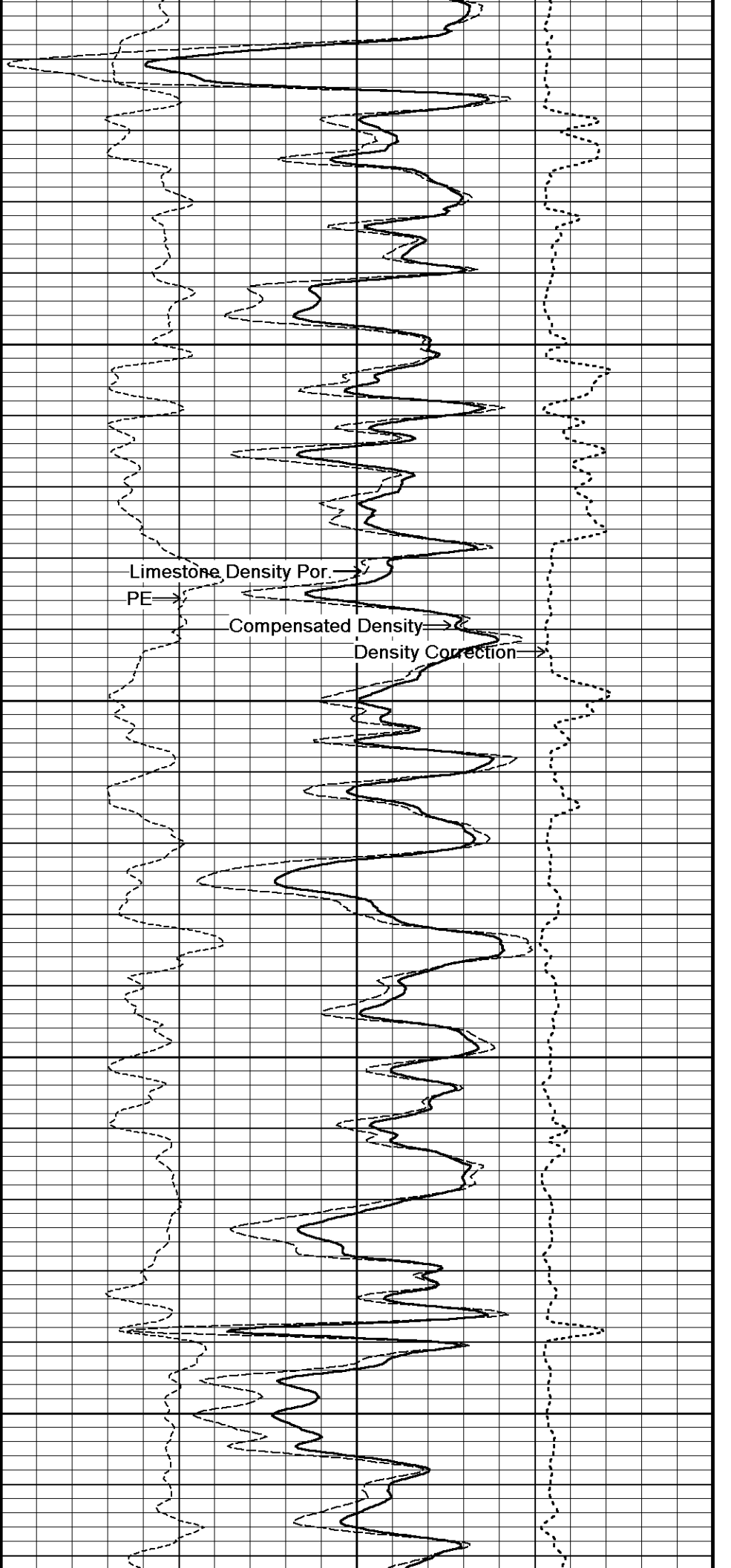
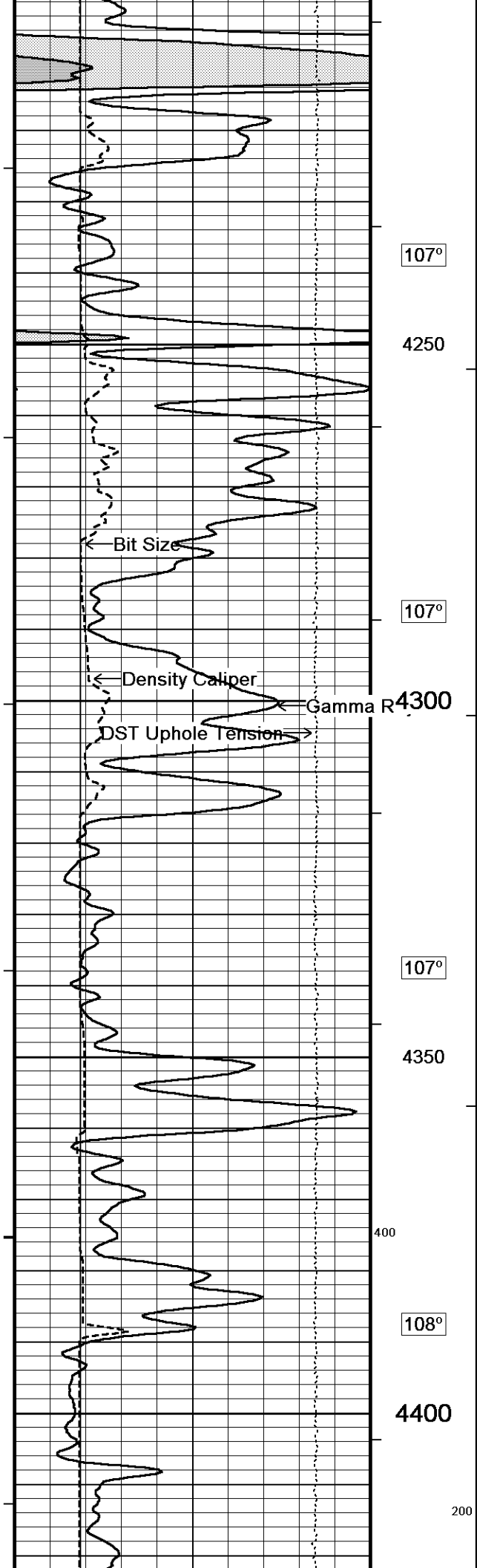
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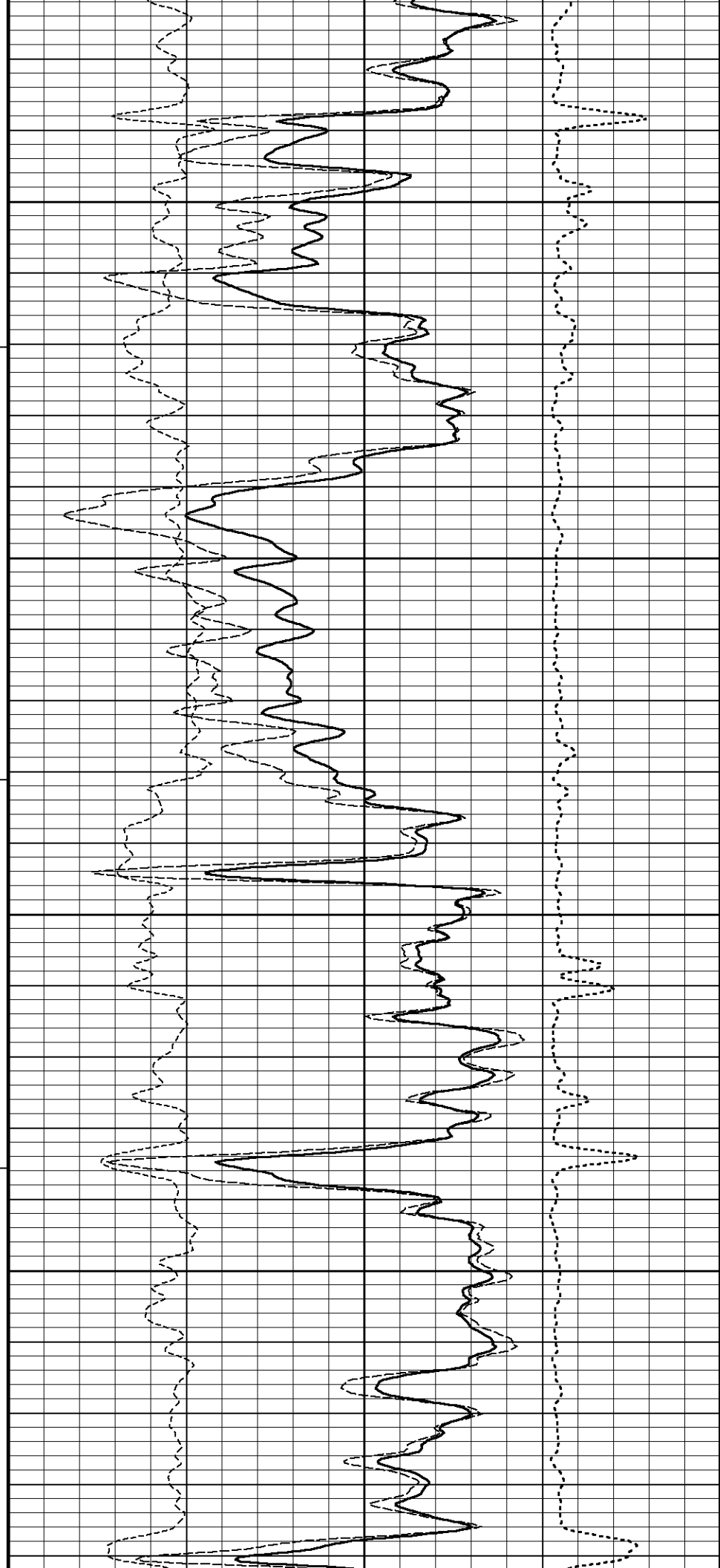
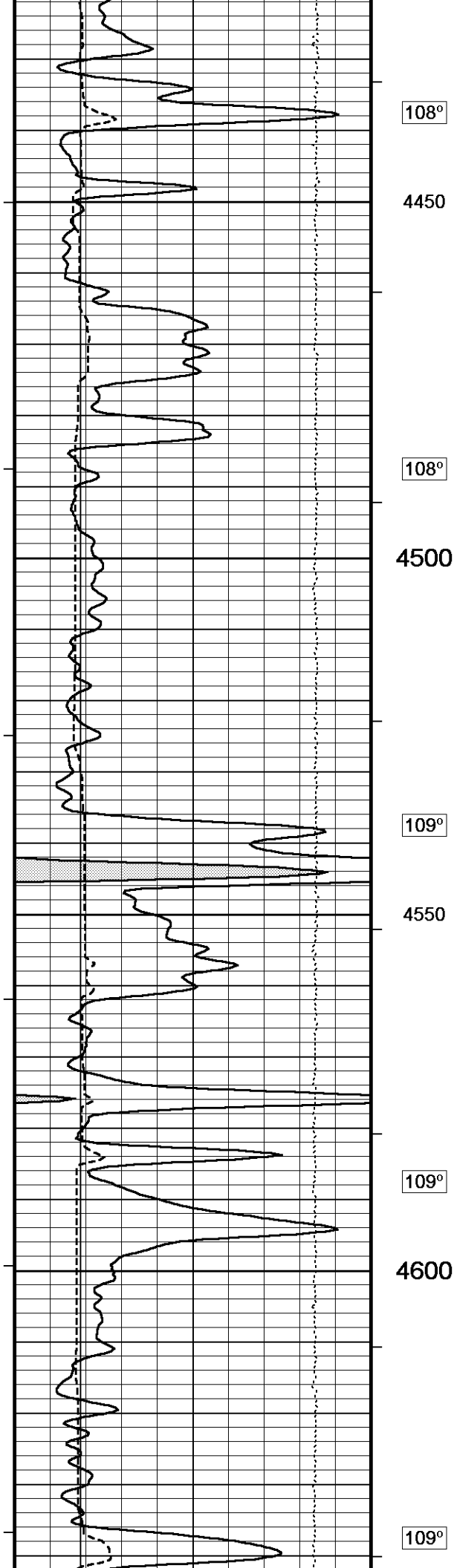
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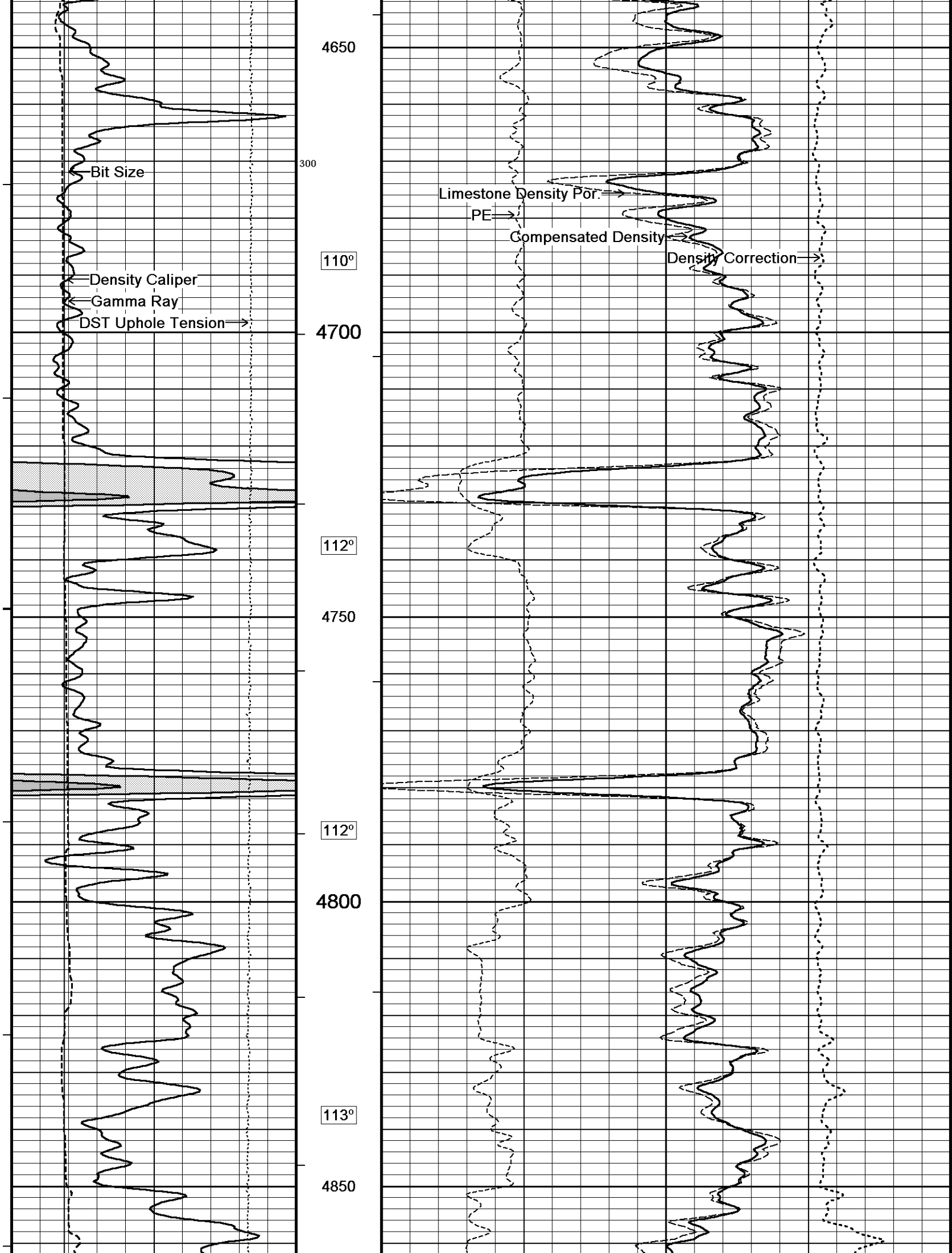
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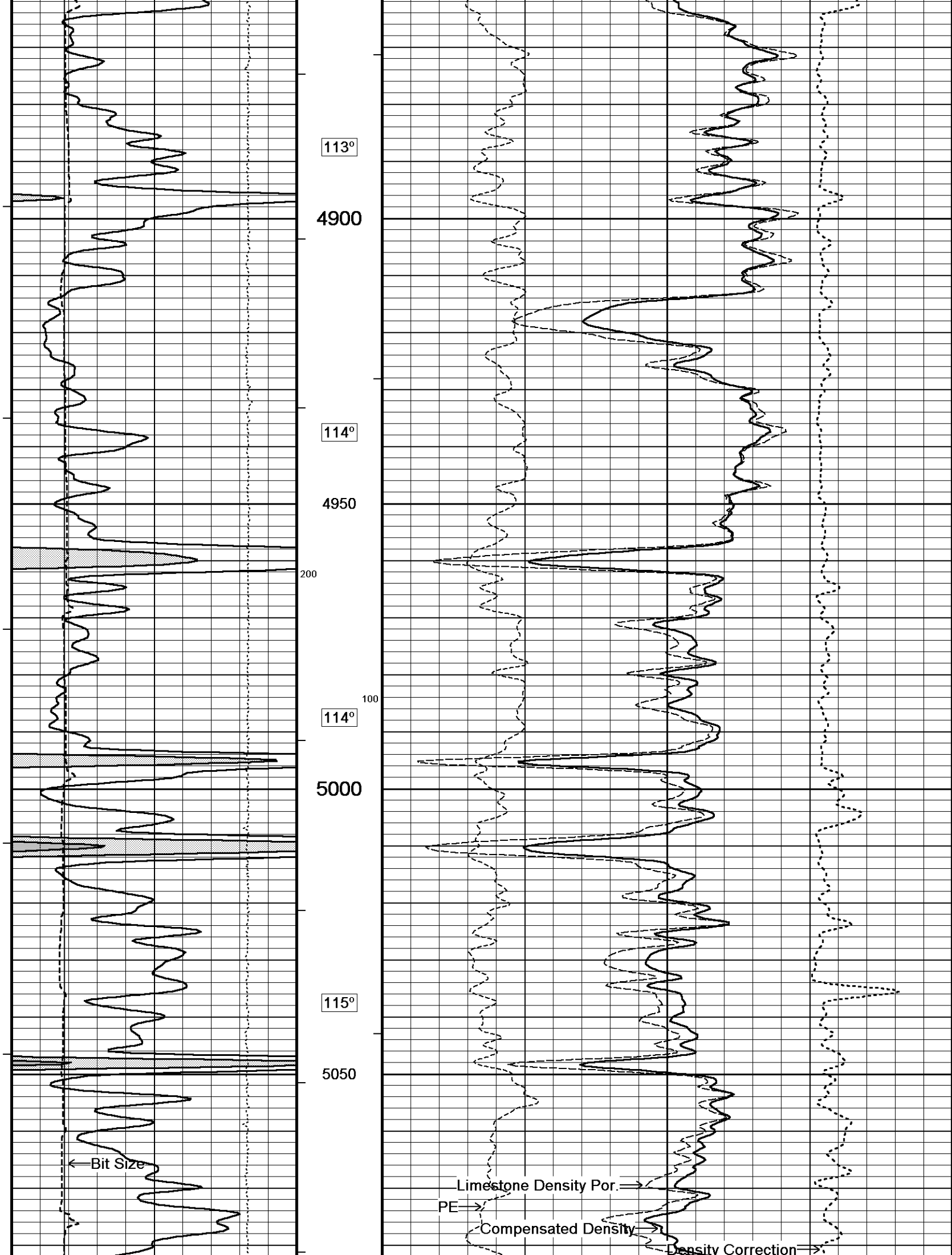
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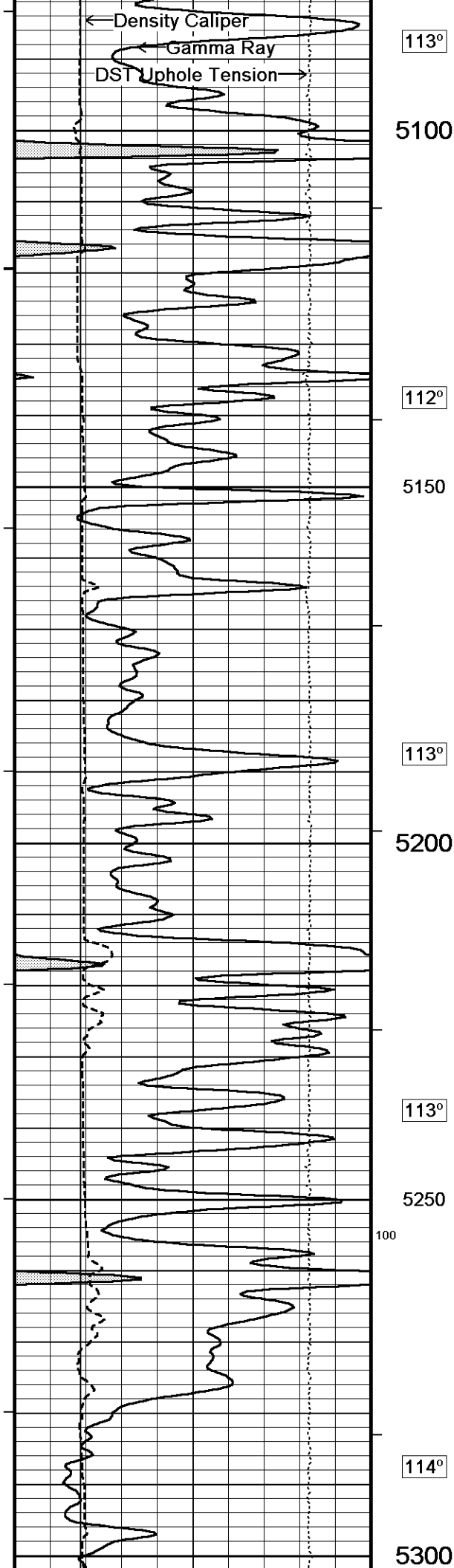












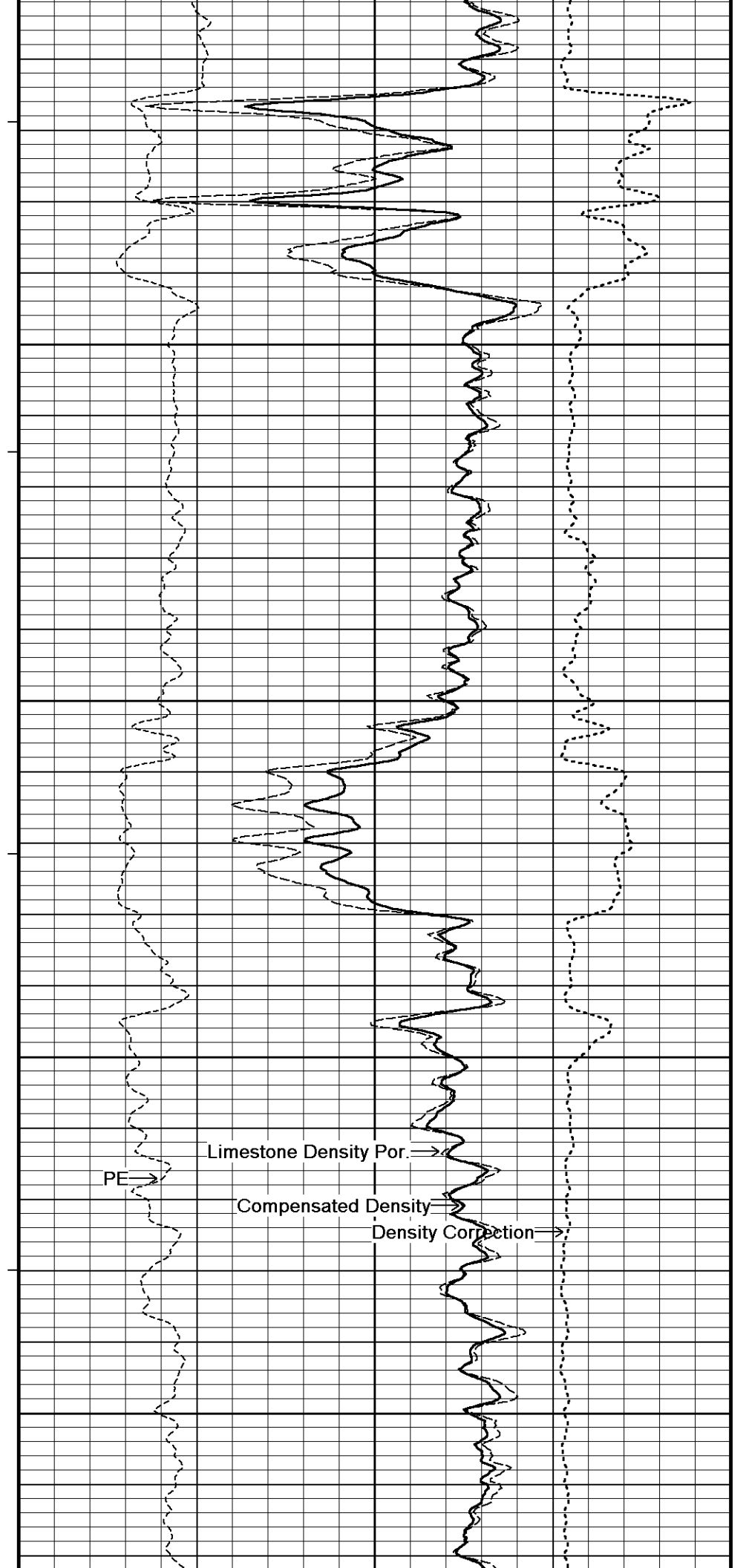
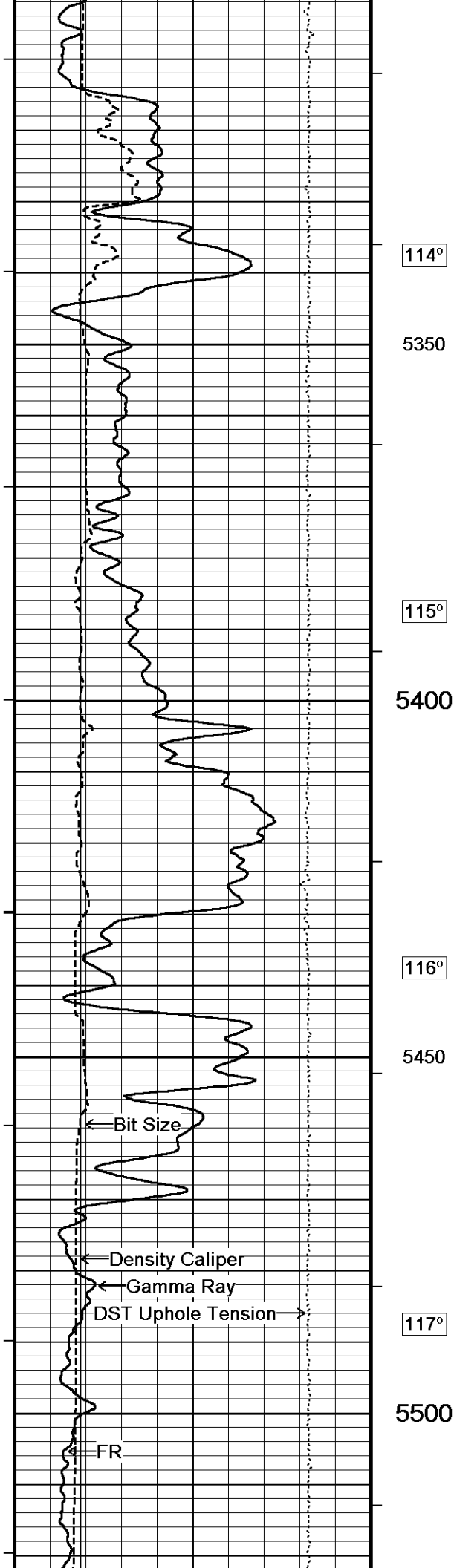
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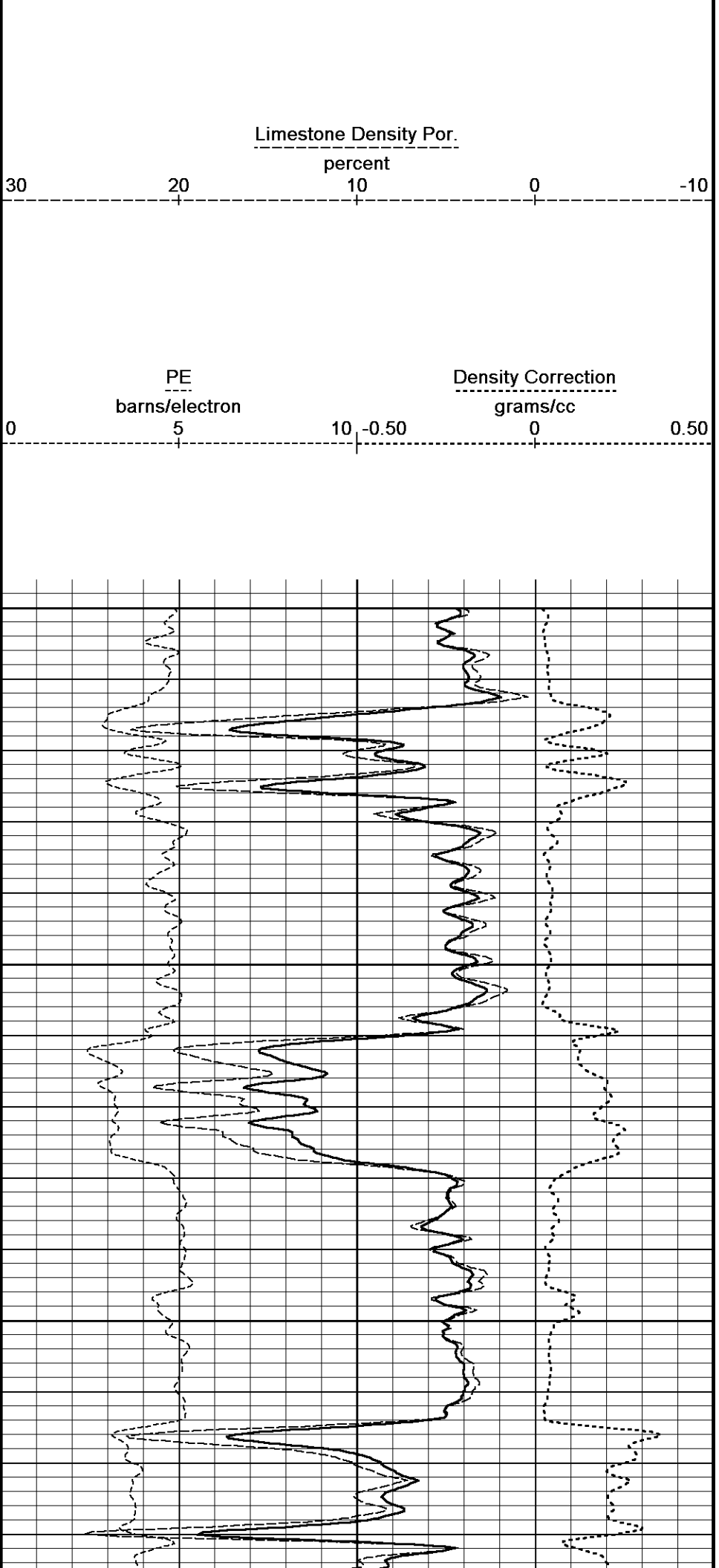
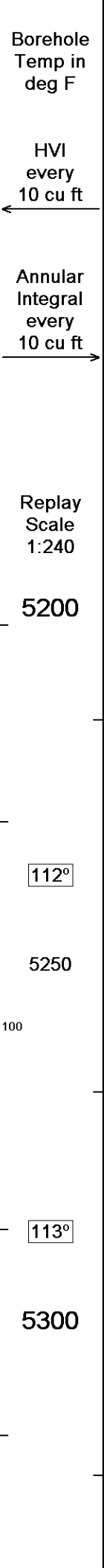
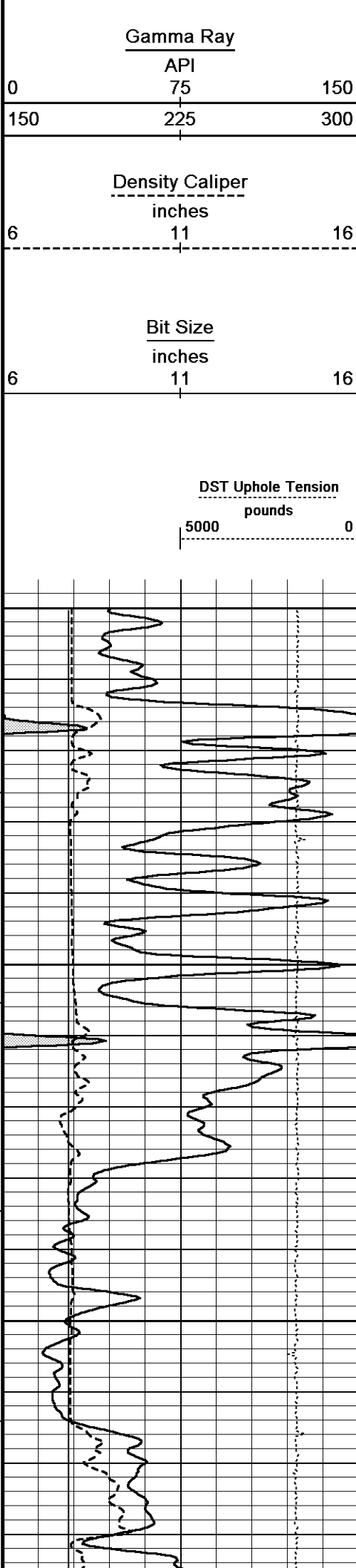
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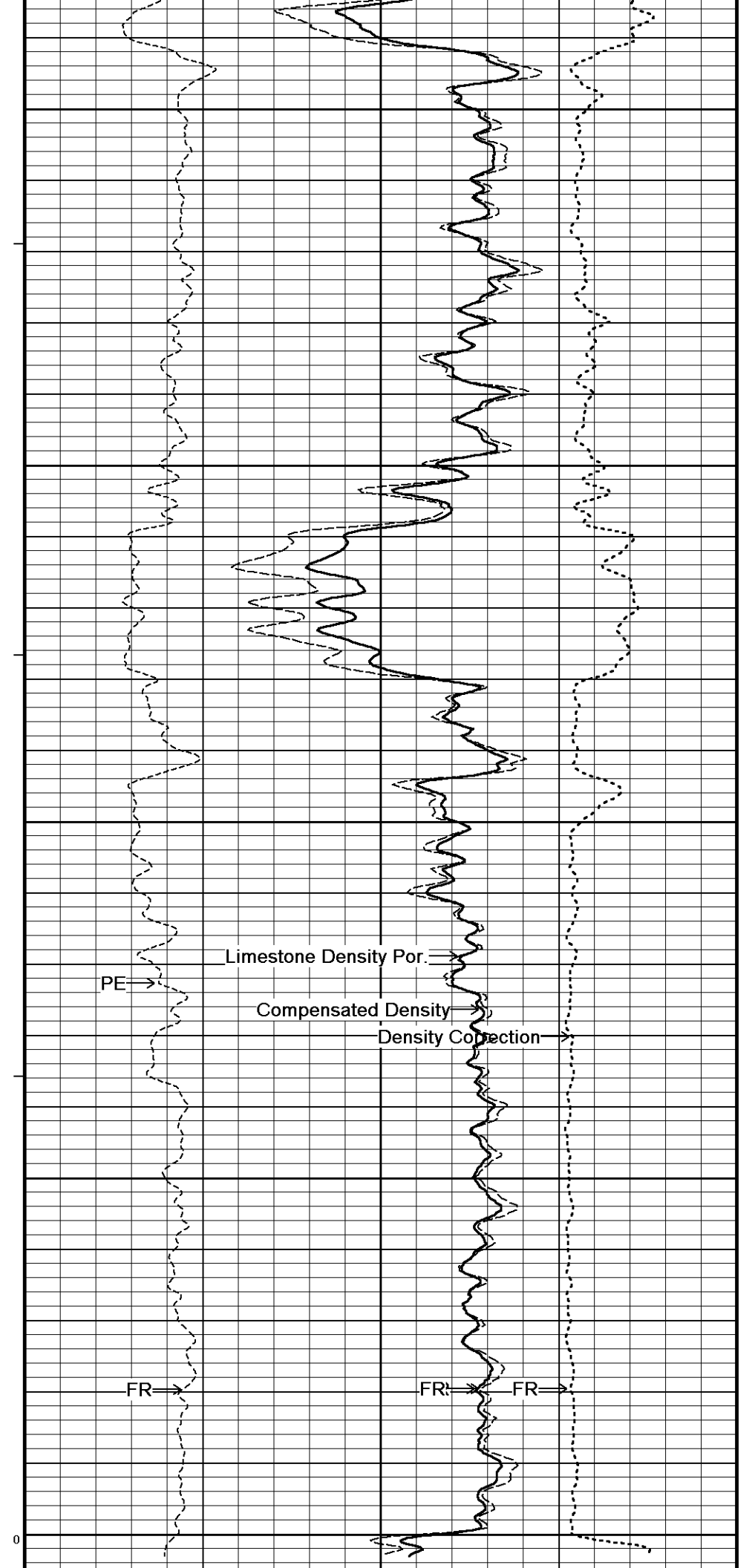
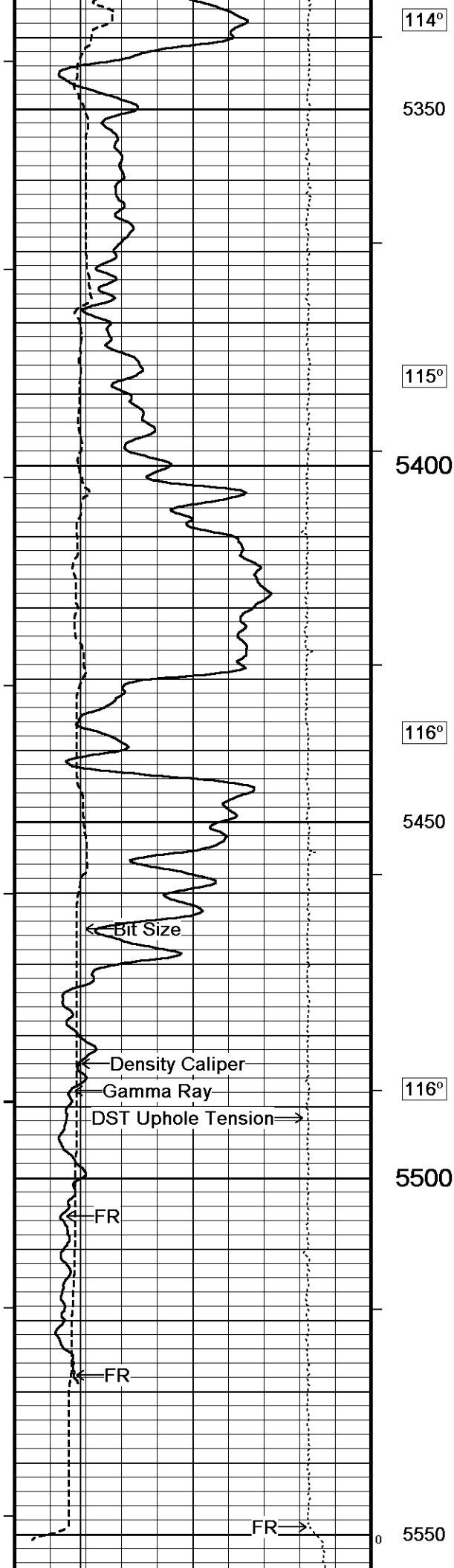
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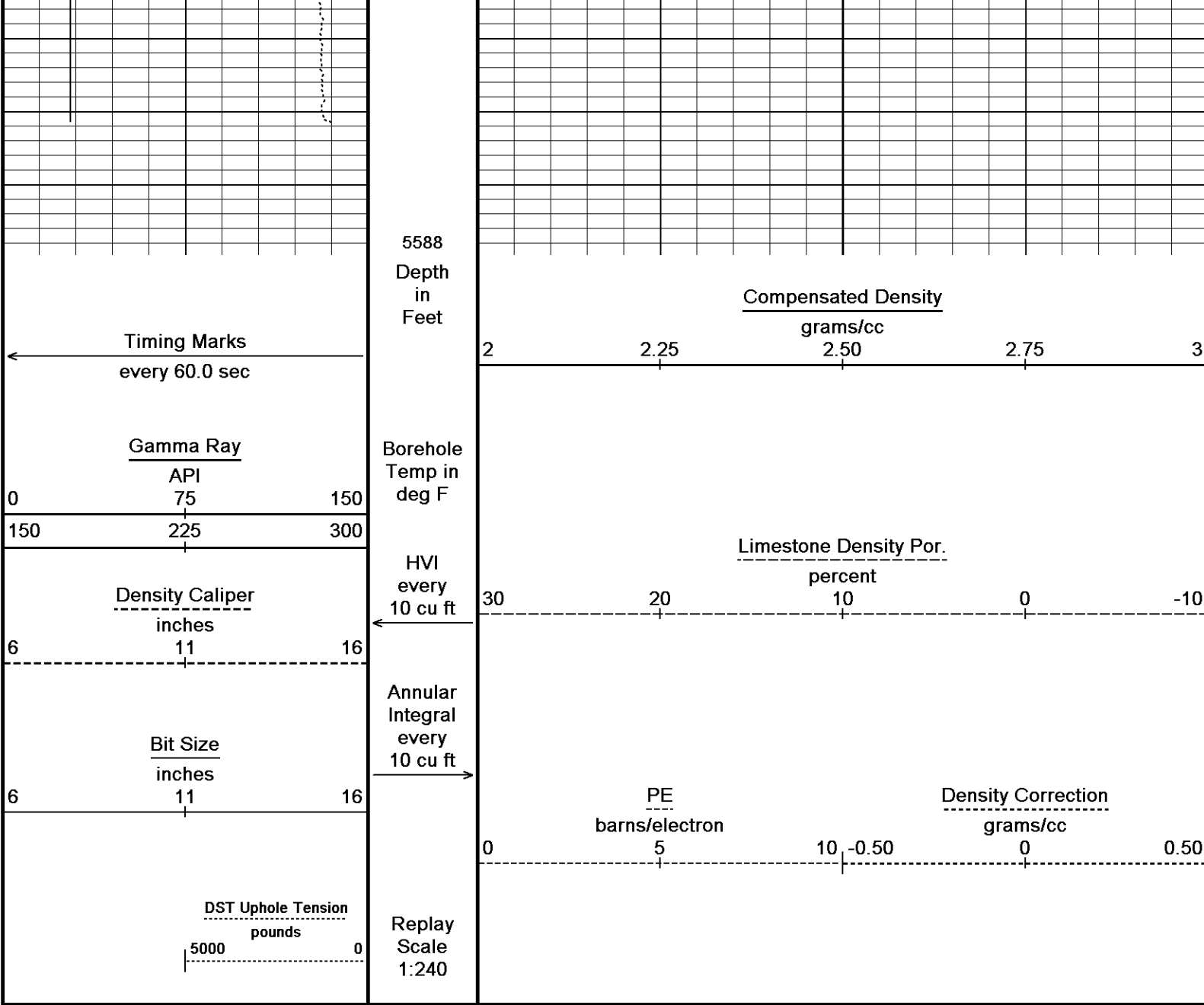
113°

114°









Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\REPEAT.dta
System Versions: Logged with 13.08.2113 Processed with 13.08.2113 Plotted with 13.08.2113

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION

C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\MAIN.dta

General Constants All 000 Last Edited on 14-MAR-2014,07:36

General Parameters		
Mud Resistivity	1.210	ohm-metres
Mud Resistivity Temperature	93.000	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		0.610		
RWA Constant M		2.150		
SW/APOR Tool Source		0.000		
Gamma Calibration MCG-C 150			Field Calibration on 12-MAR-2014 16:55	
	Measured	Calibrated (API)		
Background	69	47		
Calibrator (Gross)	1144	772		
Calibrator (Net)	1075	725		
Gamma Constants MCG-C 150			Last Edited on 14-MAR-2014,03:09	
Gamma Calibrator Number	GRC038			
Mud Density	1.12	gm/cc		
Caliper Source for Processing	Bit Size			
Tool Position	Eccentred			
Concentration of KCl		kppm		
K Mud Type	Chloride			
K Mud Concentration	0.00	%		
High Resolution Temperature Calibration MCG-C 150			Field Calibration on 08-MAR-2014,10:59	
	Measured	Calibrated(Deg F)		
Lower	50.00	50.00		
Upper	75.00	75.00		
High Resolution Temperature Constants MCG-C 150			Last Edited on 08-MAR-2014,10:59	
Pre-filter Length	11			
Photo Density Calibration MPD-B 64			Base Calibration on 21-JAN-2014 13:19 Field Check on 12-MAR-2014 17:12	
Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Background	1151	1332		
Reference 1	54413	28212	59556	30836
Reference 2	21794	2569	24941	2541
Field Check at Base				
	1151.0	1331.7		
Field Check				
	1148.1	1328.8		
PE Calibration				
Base Calibration		Measured	Calibrated	
	WS	WH	Ratio	Ratio
Background	207	1021		
Reference 1	20693	54218	0.385	0.371
Reference 2	5952	21660	0.278	0.272
Field Check at Base				
	206.5	1020.6		
Field Check				
	208.5	1018.8		
Density Constants MPD-B 64			Last Edited on 14-MAR-2014,03:09	
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	1.12	gm/cc		
Mud Density Z/A Multiplier	1.11			
Mud Filtrate Density	1.00	gm/cc		
Drv Hole Mud Filtrate Density	1.00	gm/cc		

DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
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	

Caliper Calibration MPD-B 64

Base Calibration on 13-FEB-2014 15:49

Field Calibration on 12-MAR-2014 17:07

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	16976	3.99
2	26016	5.98
3	34528	7.97
4	42943	9.86
5	52224	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.02	7.98

DOWNHOLE EQUIPMENT

C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\MAIN.dta

CBH-C, Cablehead, 11 pin

CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

Compact Comms Gamma

MCG-C 150 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity

MMR-A 11 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in

Compact Neutron

MDN-B.J 387 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper

MPD-B 64 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

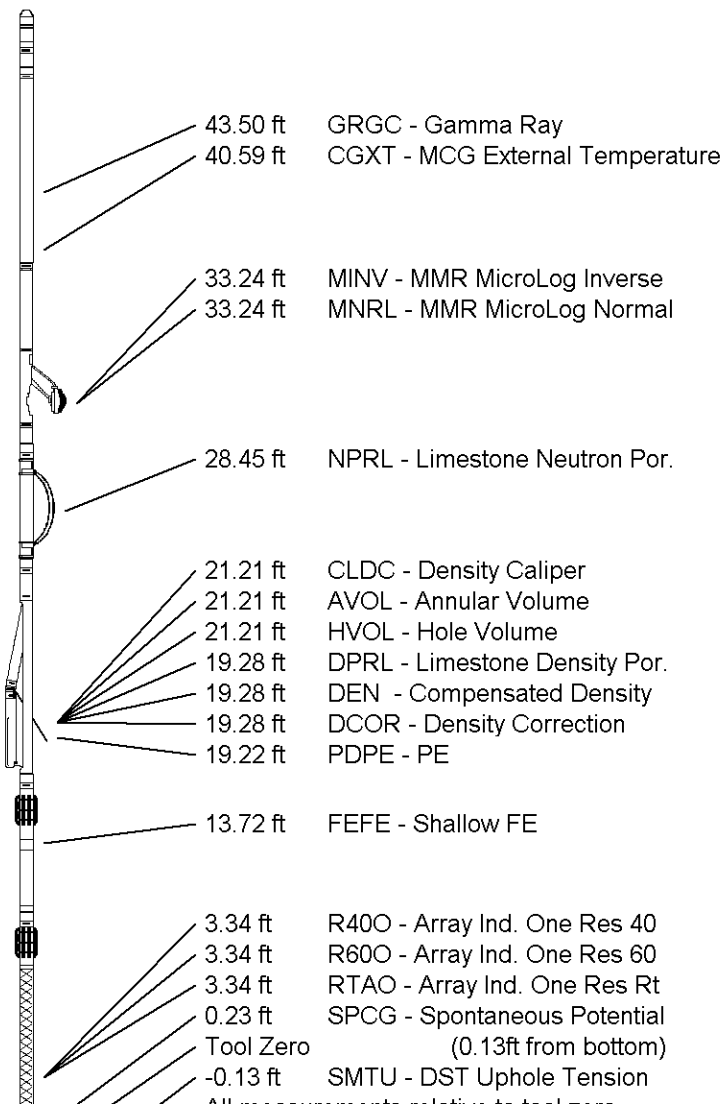
Compact Focussed Electric

MFE-A.A 55 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction

MAI-A.A 5 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 51.18 ft Weight: 407.9 lb





All measurements relative to tool zero.

COMPANY	McCOY PETROLEUM CORPORATION				
WELL	SCHWAB "A" 1-7				
FIELD	WILDCAT				
PROVINCE/COUNTY	MEADE				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2825.00	feet	First Reading	5521.00	feet
Elevation Drill Floor	2823.00	feet	Depth Driller	5550.00	feet
Elevation Ground Level	2814.00	feet	Depth Logger	5549.00	feet



COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG