



Weatherford

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG**

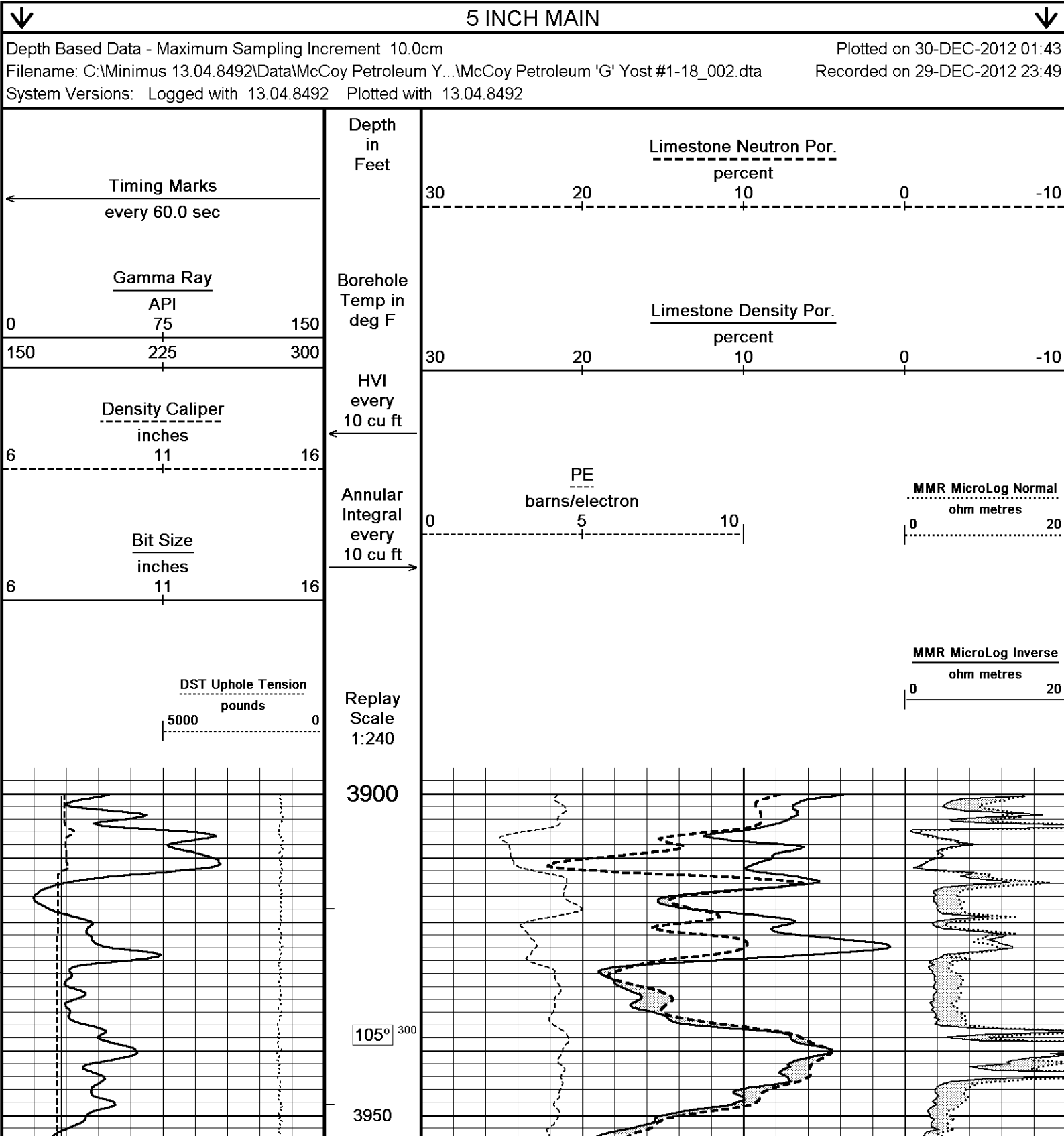
COMPANY				MCCOY PETROLEUM CORP.			
WELL				YOST 'G' #1-18			
FIELD				WILDCAT			
PROVINCE/COUNTY				GRAY			
COUNTRY/STATE				U.S.A. / KANSAS			
LOCATION				660' FNL & 2280' FEL			
SEC	TWP	RGE	Other Services				
18	27S	29W	MAI/MFE				
API Number		15-069-20419					
Permit Number							
Permanent Datum G.L., Elevation 2750 feet							
Log Measured From KB							
Drilling Measured From K.B.							
Date	29-DEC-2012				Elevations:		
Run Number	ONE				KB		
Service Order	3538965				DF		
Depth Driller	5250.00		feet		2763.00		
Depth Logger	5249.00		feet		2762.00		
First Reading	5230.00		feet		2750.00		
Last Reading	3900.00		feet				
Casing Driller	1827.00		feet				
Casing Logger	1829.00		inches				
Bit Size	7.875						
Hole Fluid Type	CHEMICAL		lb/USg				
Density / Viscosity	9.25 lb/USg		53.00 CP				
PH / Fluid Loss	10.50		10.50				
Sample Source	FLOWLINE						
Rm @ Measured Temp	0.54 @ 90.0		ohm-m				
Rmf @ Measured Temp	0.43 @ 90.0		ohm-m				
Rmc @ Measured Temp	0.65 @ 90.0		ohm-m				
Source Rmf / Rmc	CALC		CALC				
Rm @ BHT	0.43 @114.0		ohm-m				
Time Since Circulation	5 HOURS						
Max Recorded Temp	114.00		deg F				
Equipment / Base	13057		LIB				
Recorded By	ADAM SILL				J. LAPOINT		
Witnessed By	EVAN STONE						
JOB#	LB12-338						

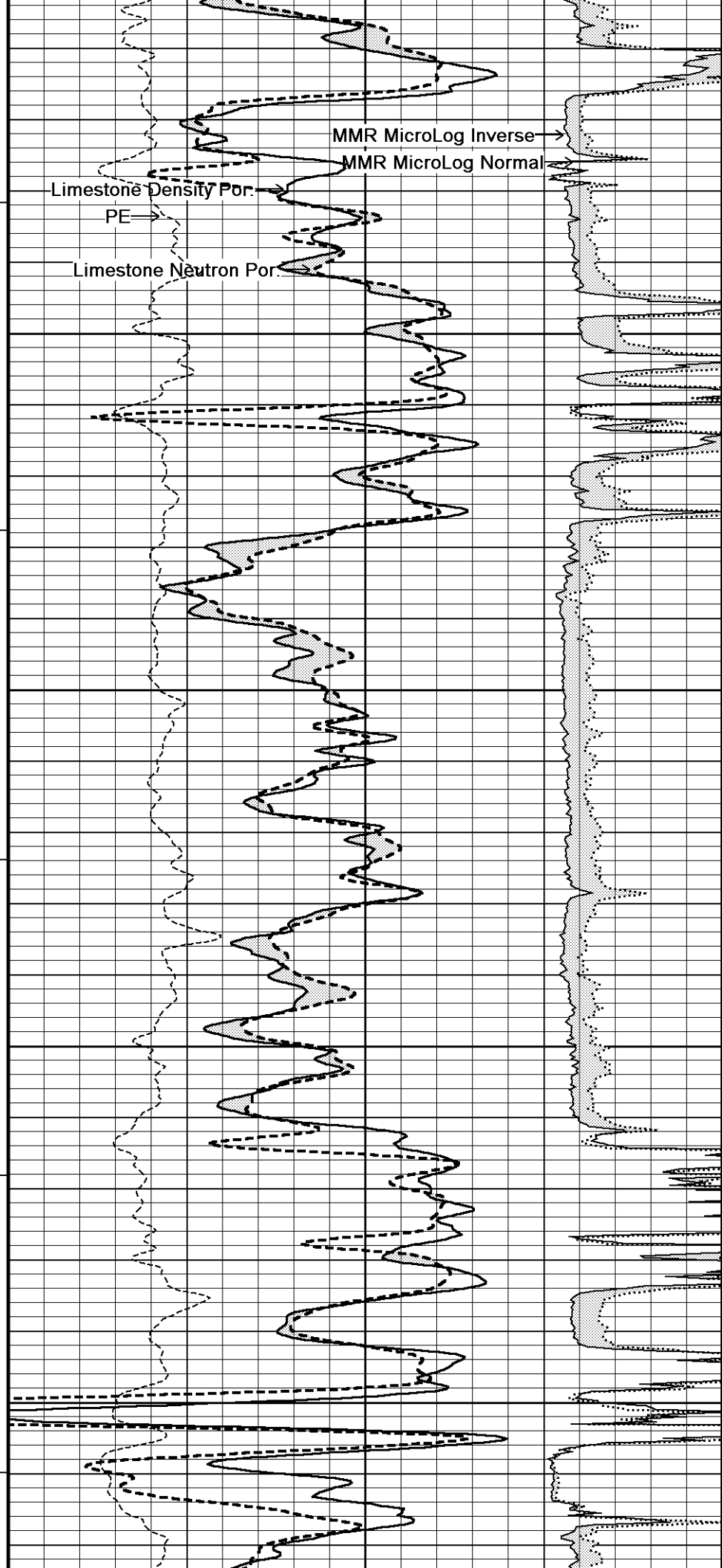
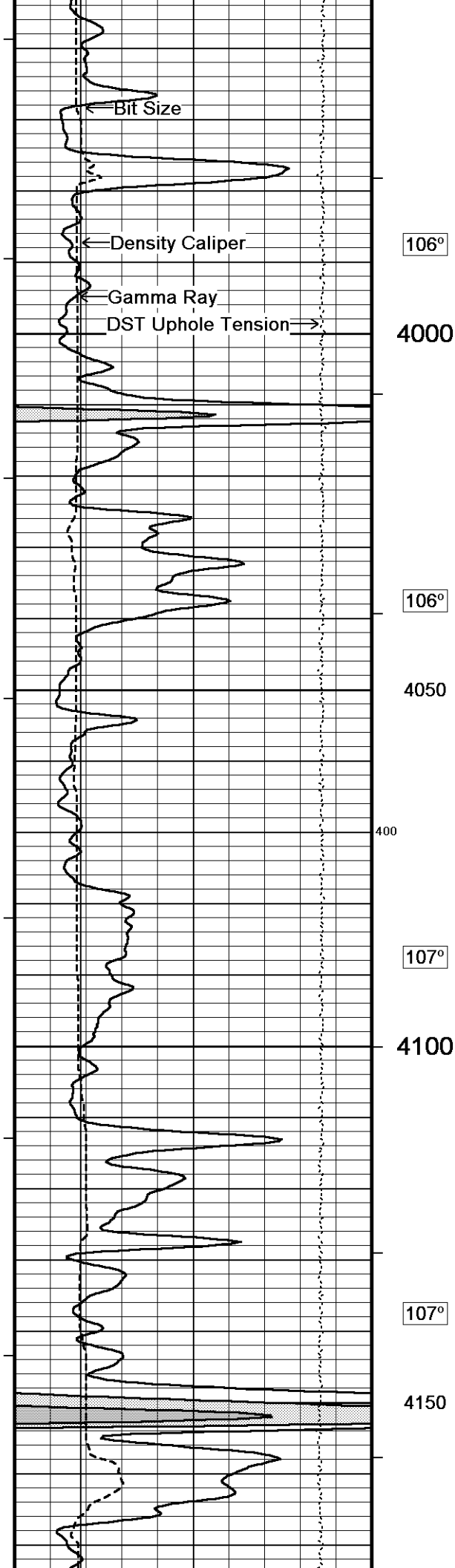
BOREHOLE RECORD				Last Edited: 29-DEC-2012 23:18
Bit Size inches		Depth From feet		Depth To feet
7.875		1829.00		5250.00
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1829.00	24.00

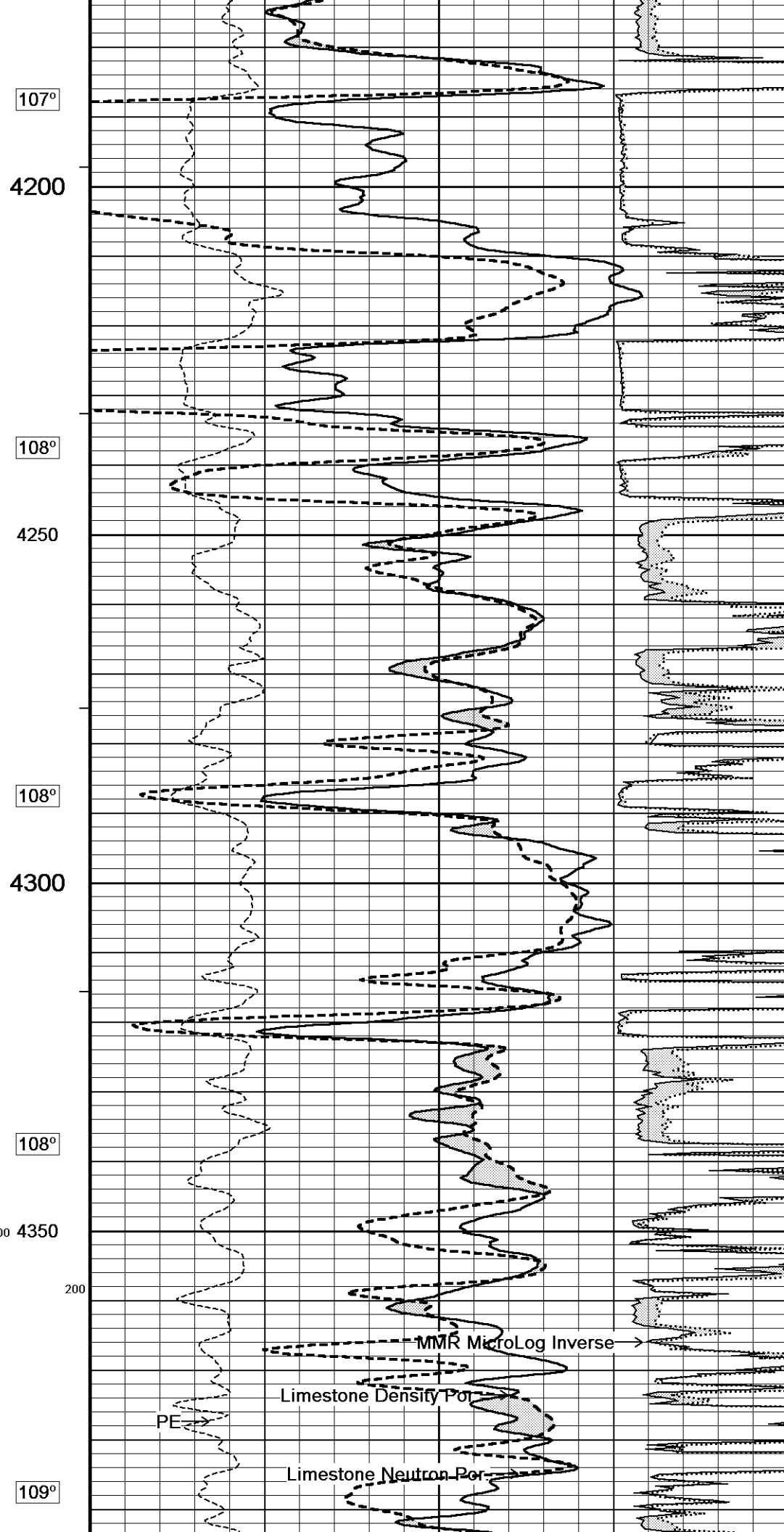
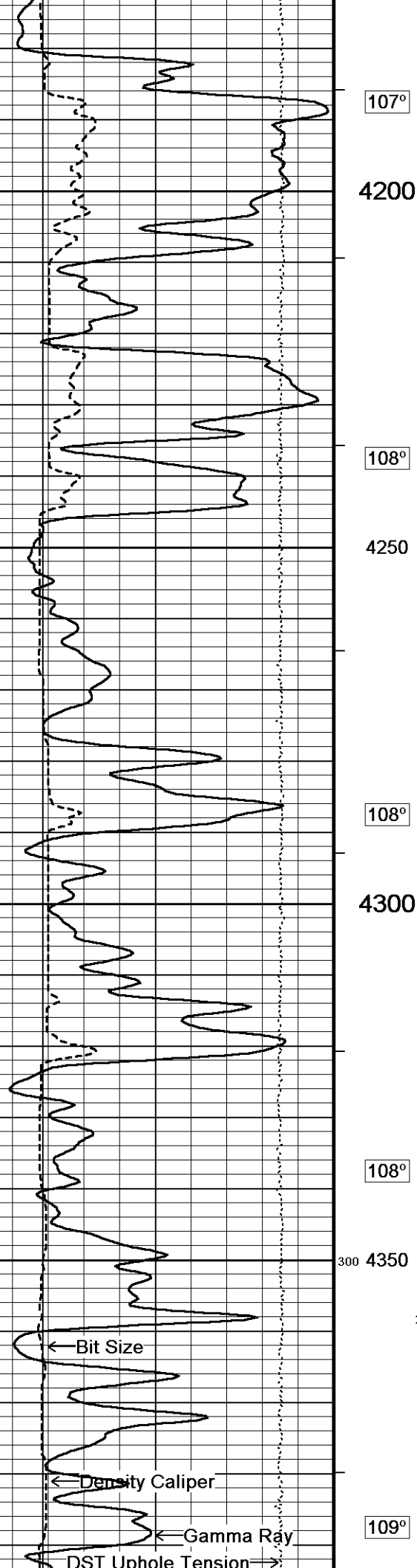
REMARKS
- SOFTWARE ISSUE: WLS 13.04.8492.
- MCG, MML, MDN, MPD, MFE, MAI RAN IN COMBINATION. - HARDWARE: DUAL BOWSPRING USED ON MDN. 0.5 INCH STANDOFF USED ON MFE. 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1395 CU. FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO 3900: 308 CU. FT.
- RIG: STERLING #5

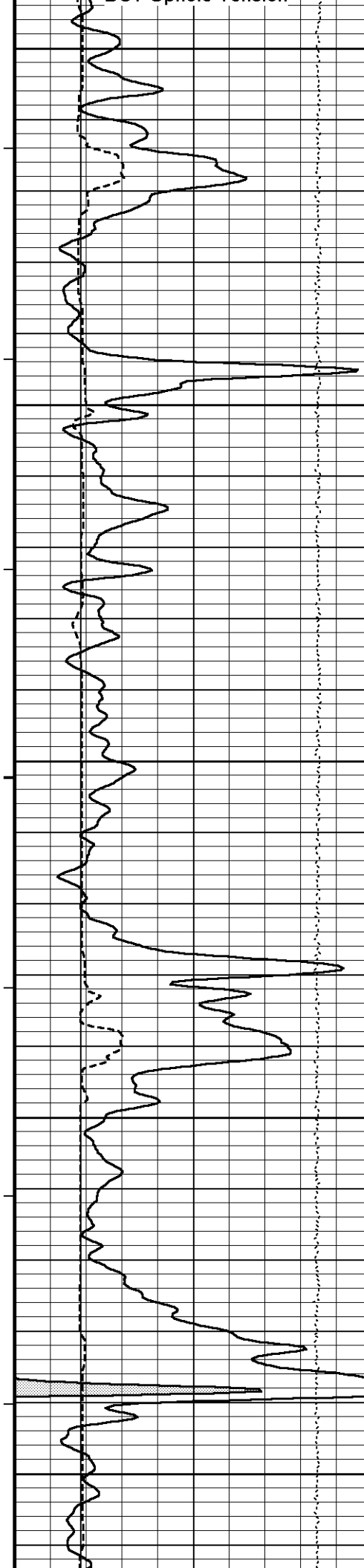
**** SOFTWARE ISSUE CHANGED FLUID LOSS TO MATCH PH. FLUID LOSS SHOULD BE 14.4 ML/30MIN. ****

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.









4400

109°

4450

109°

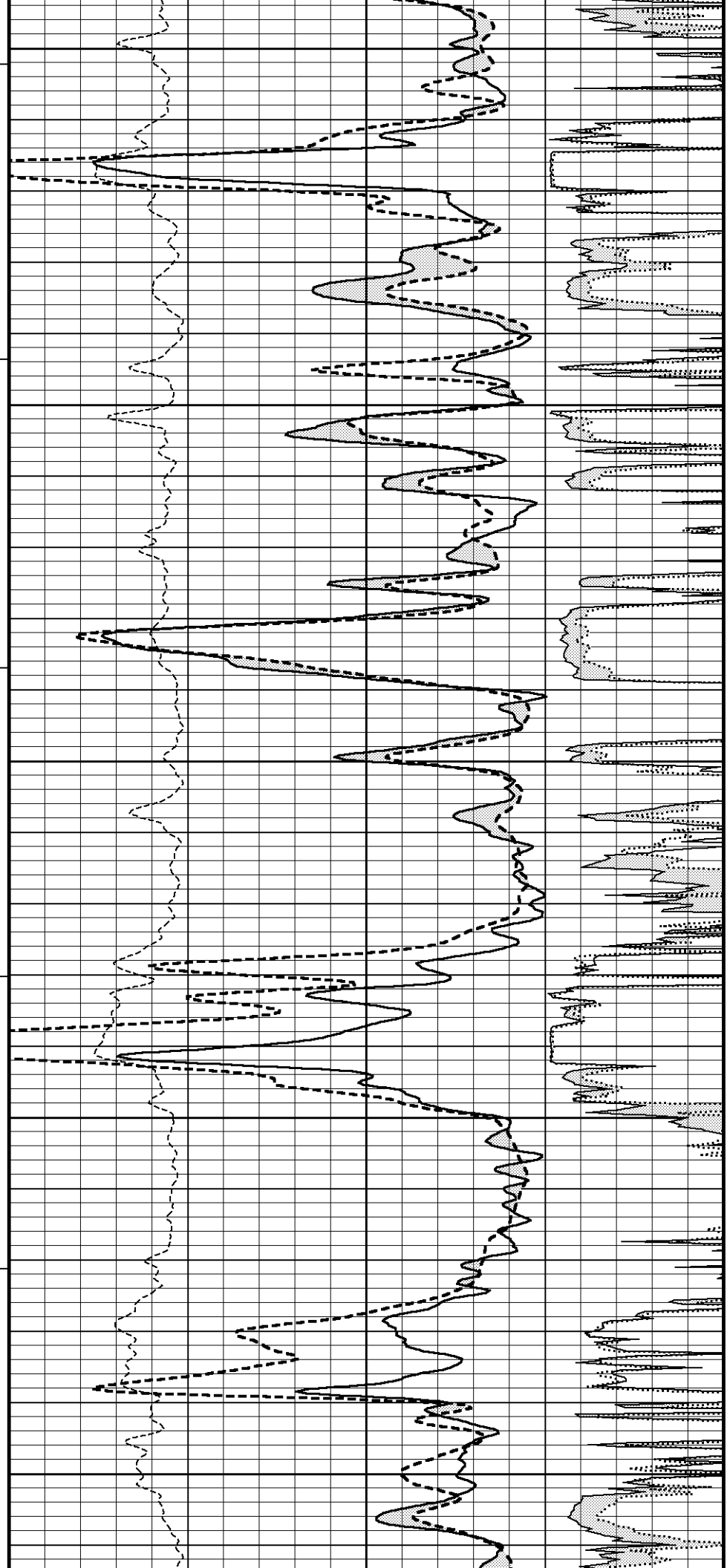
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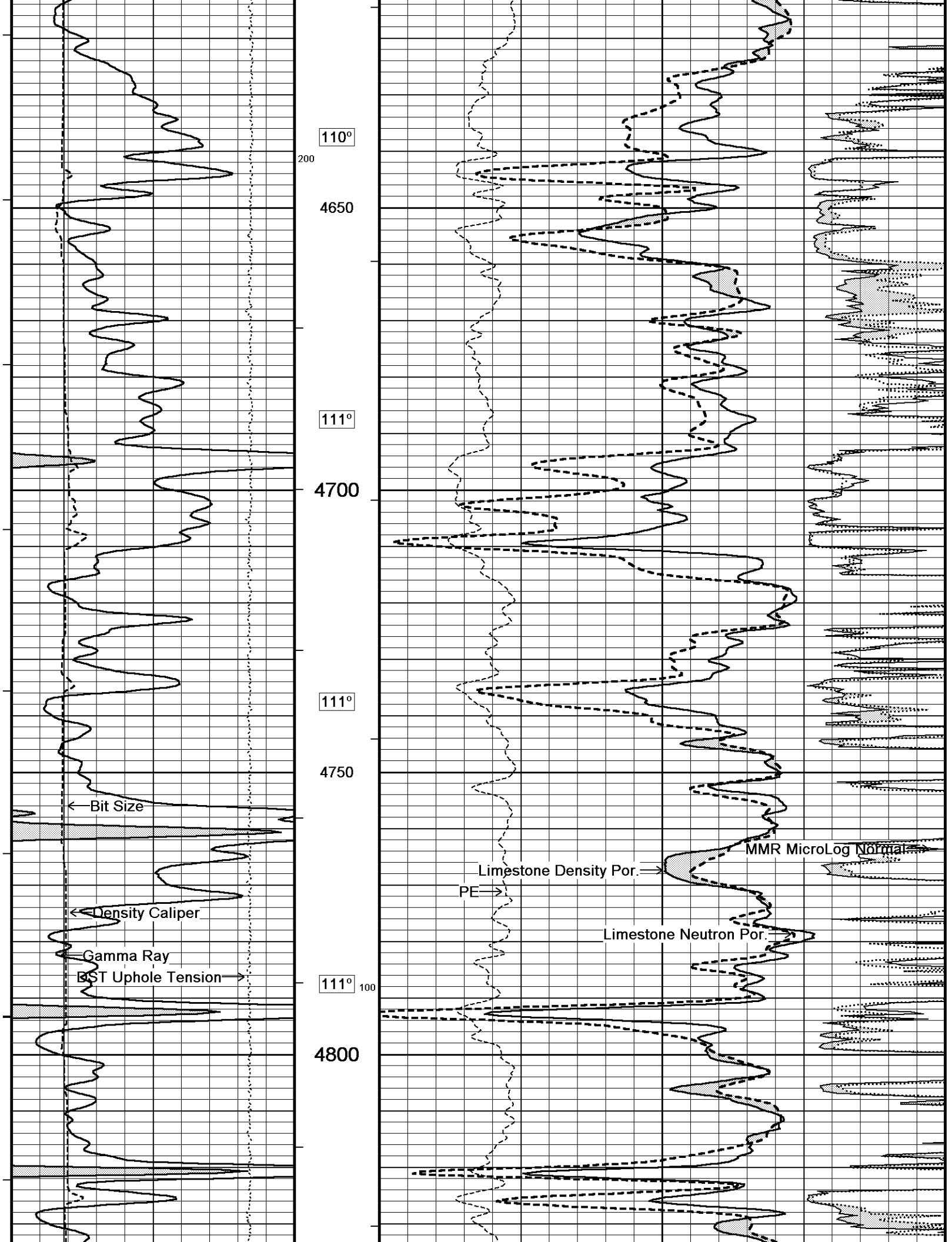
110°

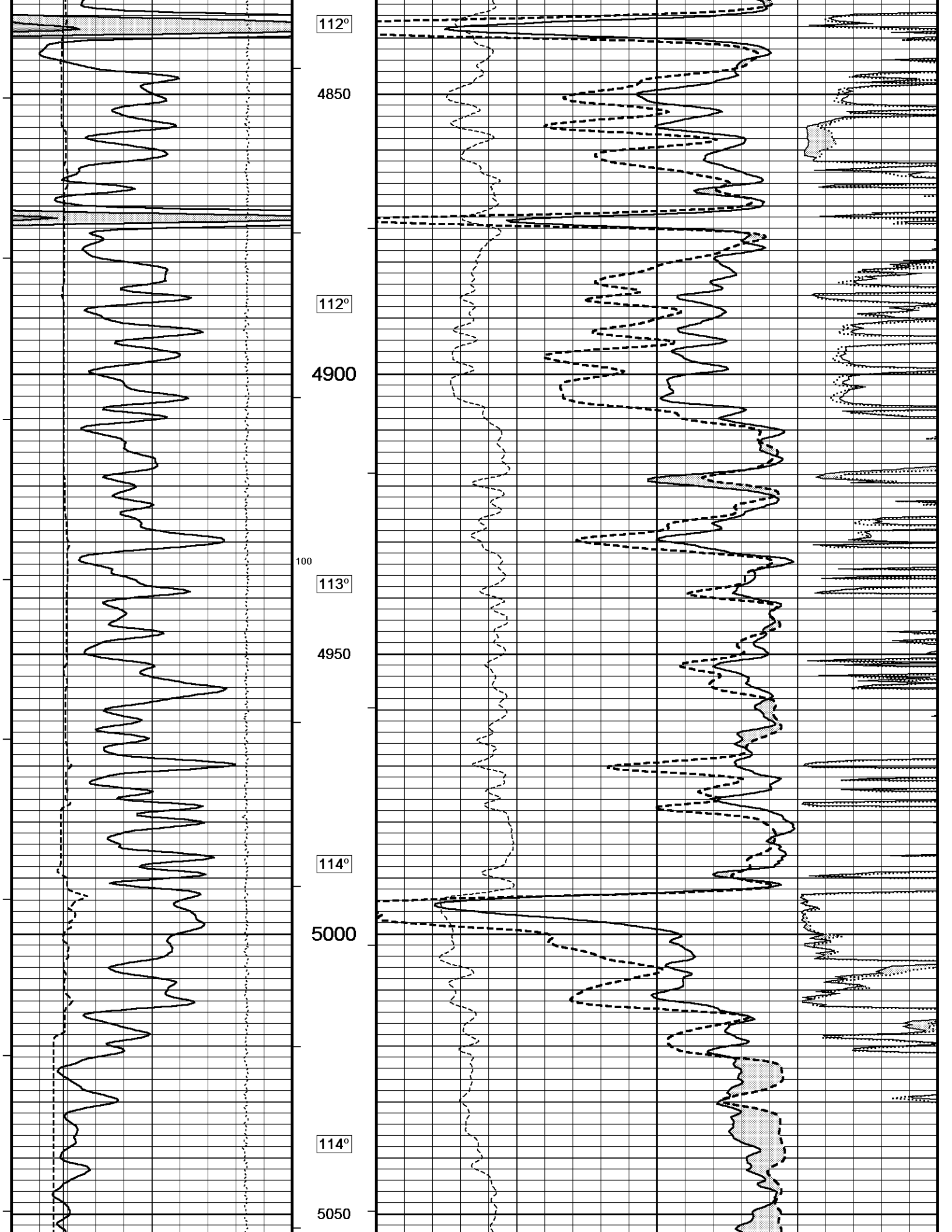
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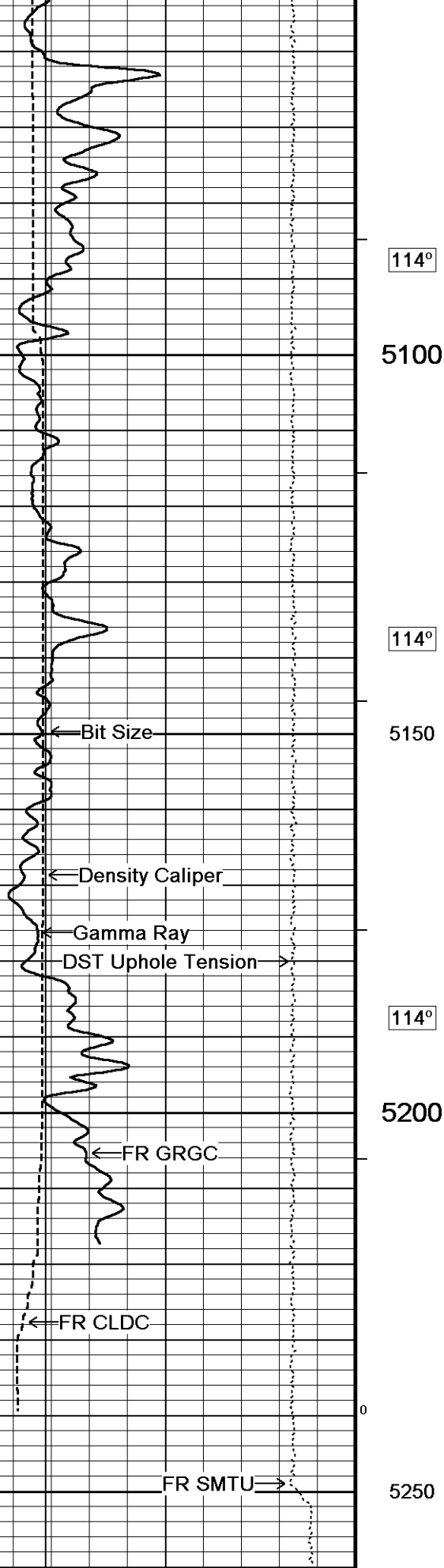
110°

4600









114°

5100

114°

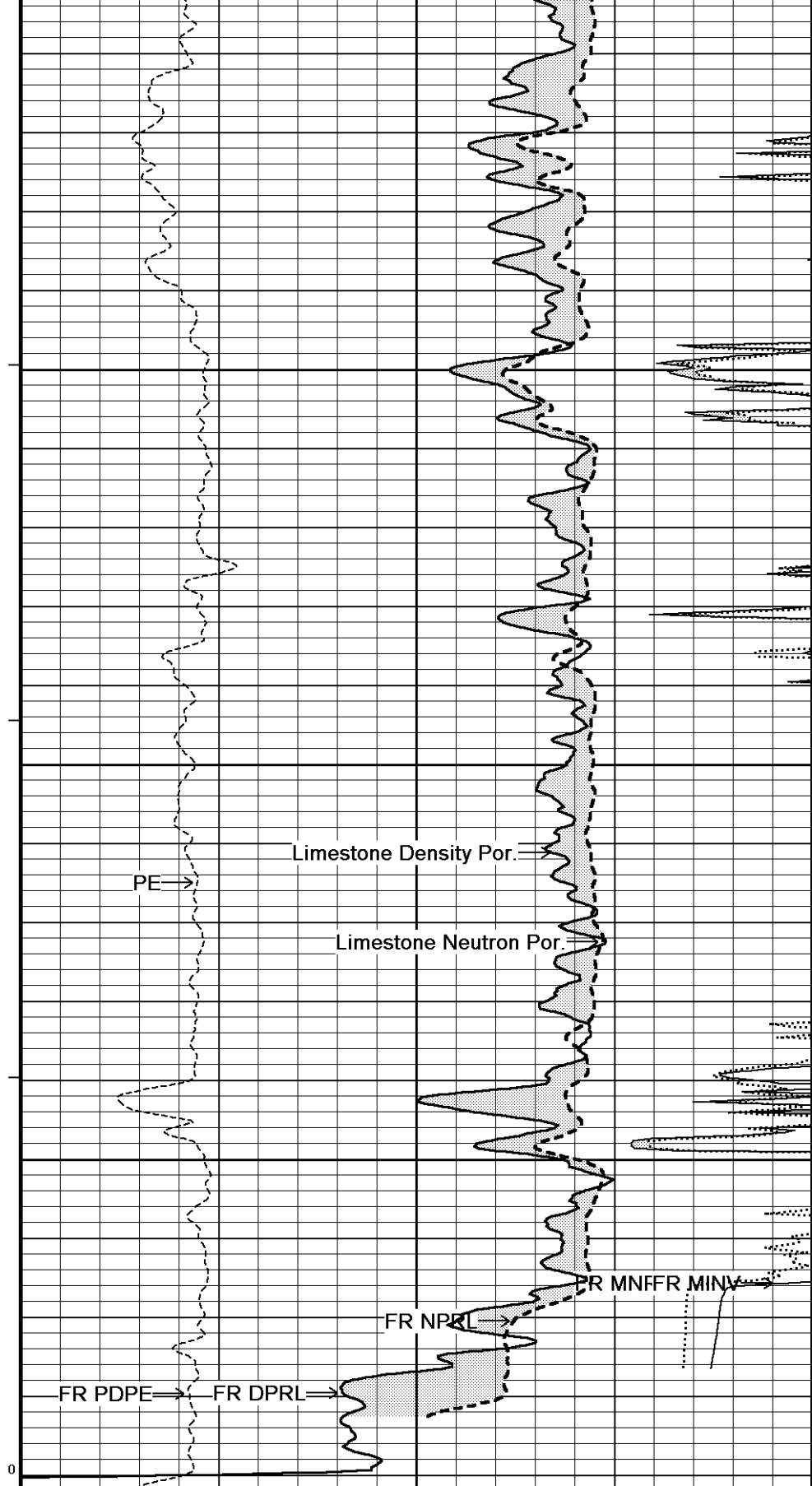
5150

114°

5200

0

5250



PE

Limestone Density Por.

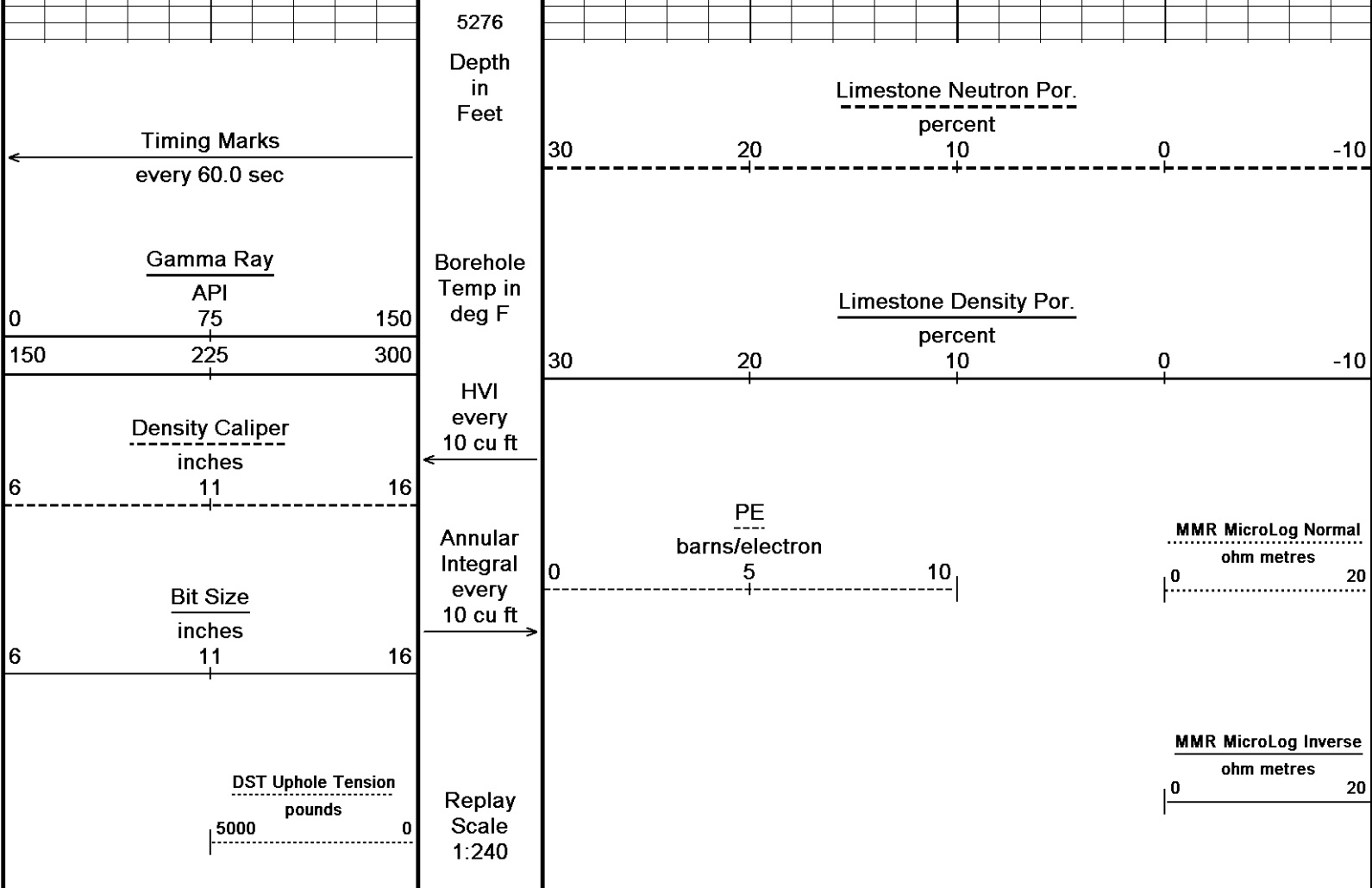
Limestone Neutron Por.

FR NPRL

FR PDPE

FR DPRL

FR MNFFR MINV

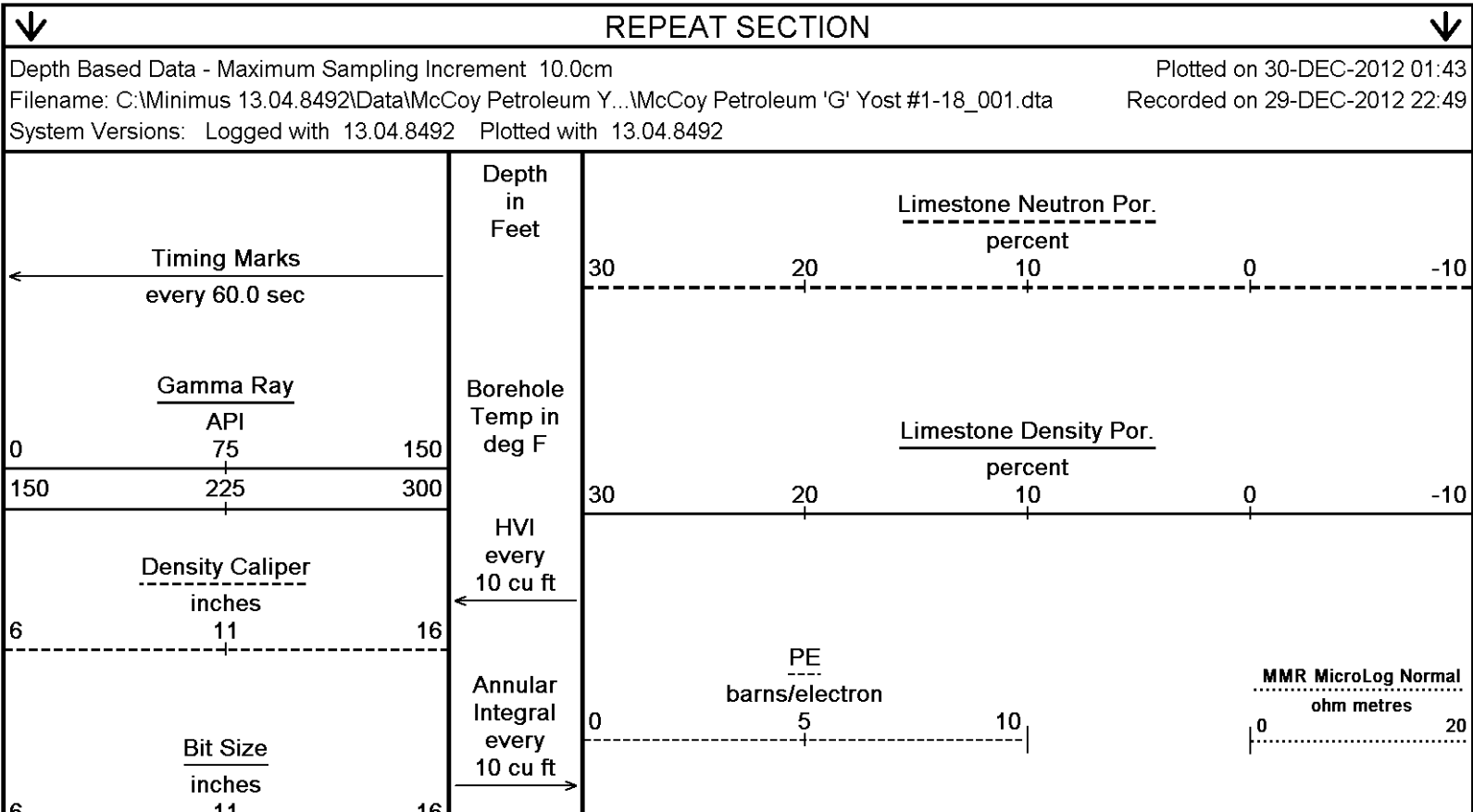


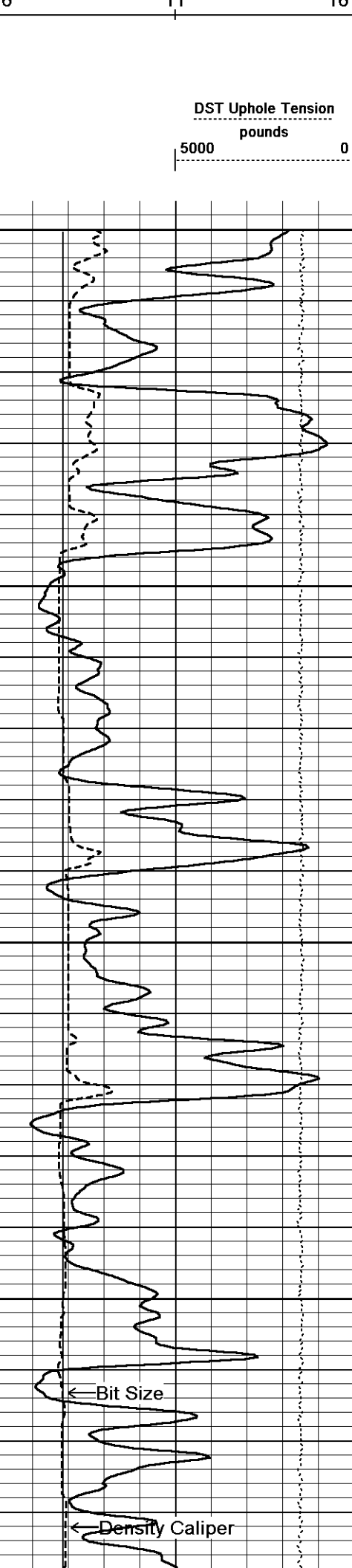
Depth Based Data - Maximum Sampling Increment 10.0cmPlotted on 30-DEC-2012 01:43

Filename: C:\Minimus 13.04.8492\Data\McCoy Petroleum Y...\McCoy Petroleum 'G' Yost #1-18_002.dtaRecorded on 29-DEC-2012 23:49

System Versions: Logged with 13.04.8492Plotted with 13.04.8492

↑5 INCH MAIN↑





Replay
Scale
1:240

4200

106°

4250

106°

4300

107°

4350

300

200

107°

MMR MicroLog Inverse
ohm metres

0

20

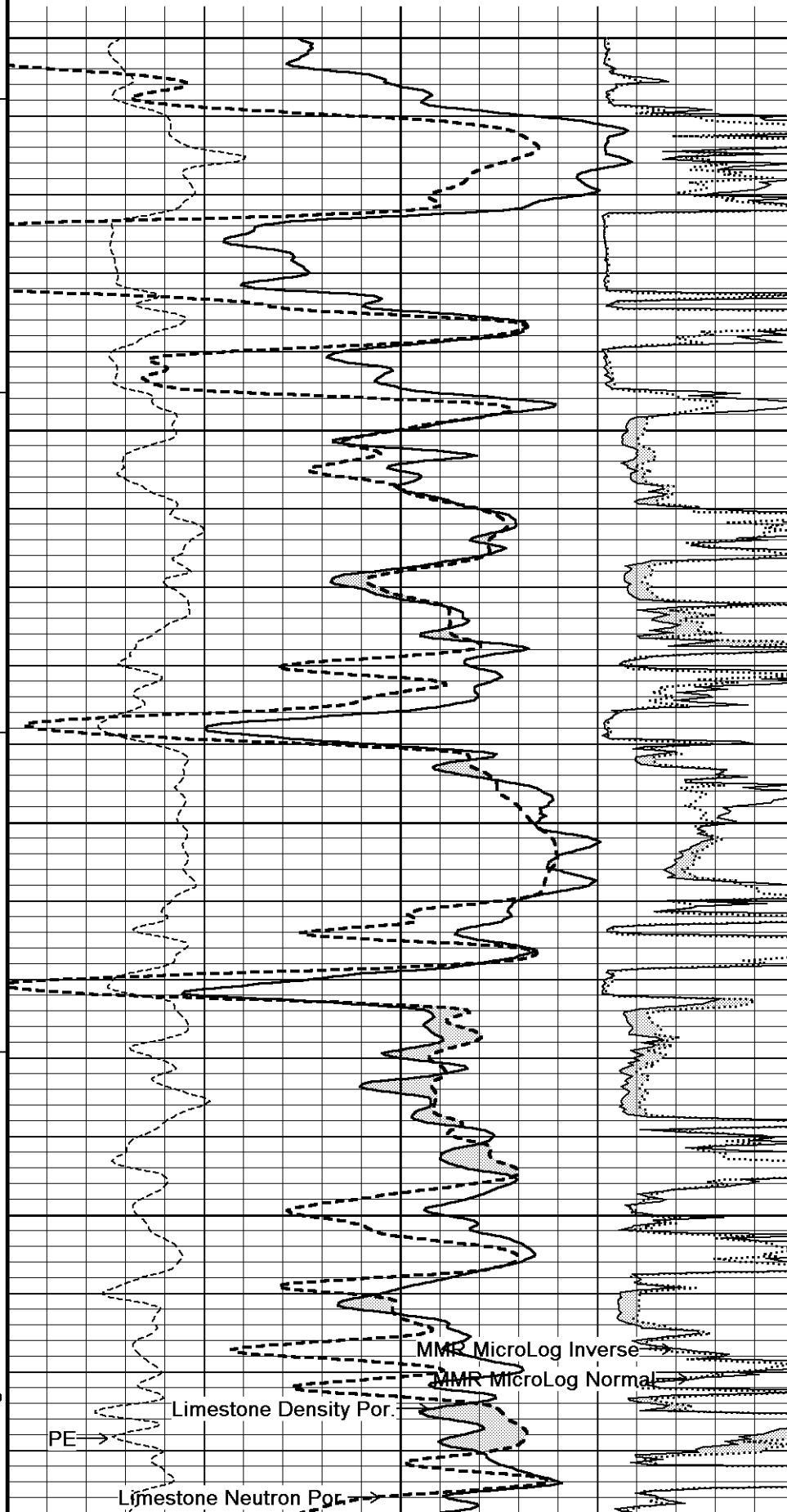
PE

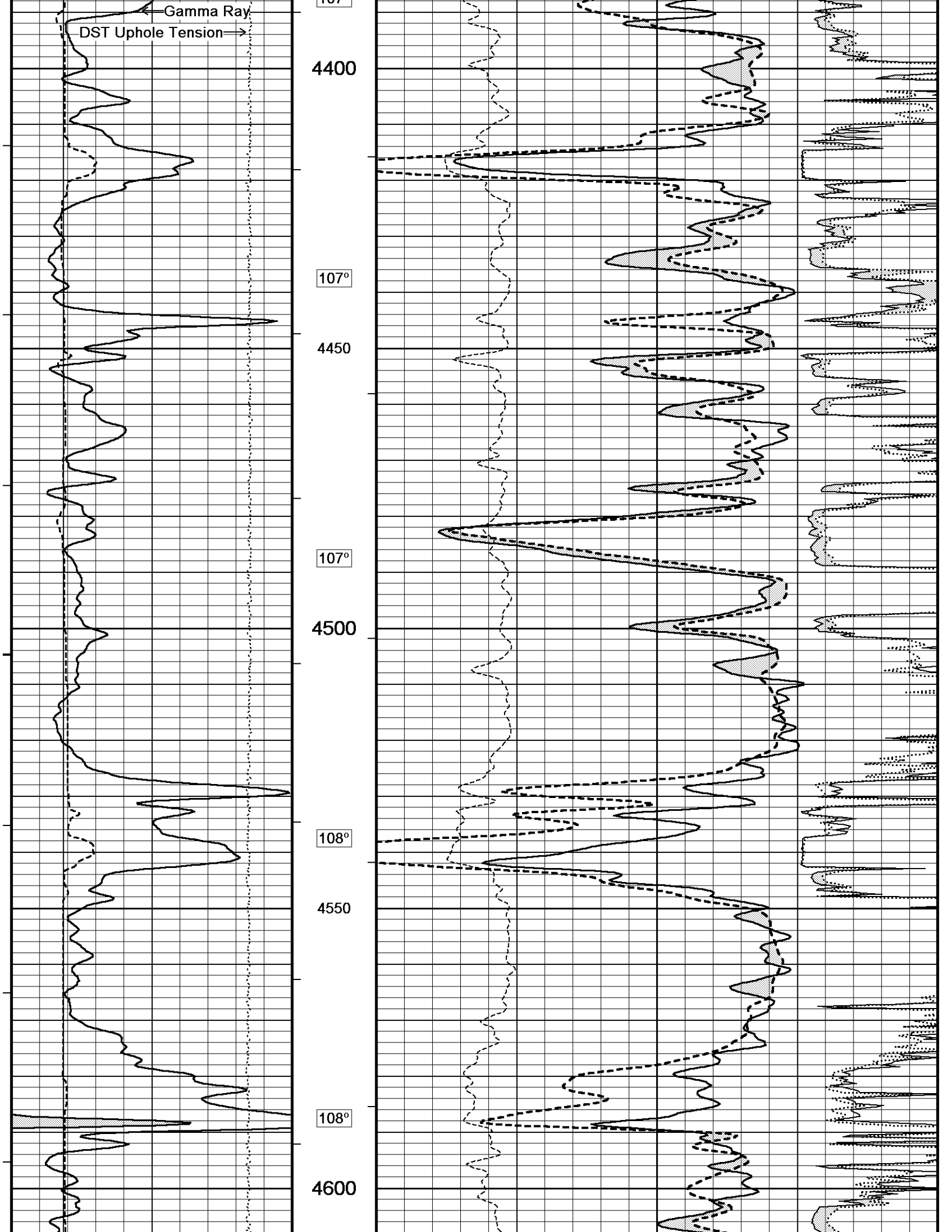
Limestone Density Por.

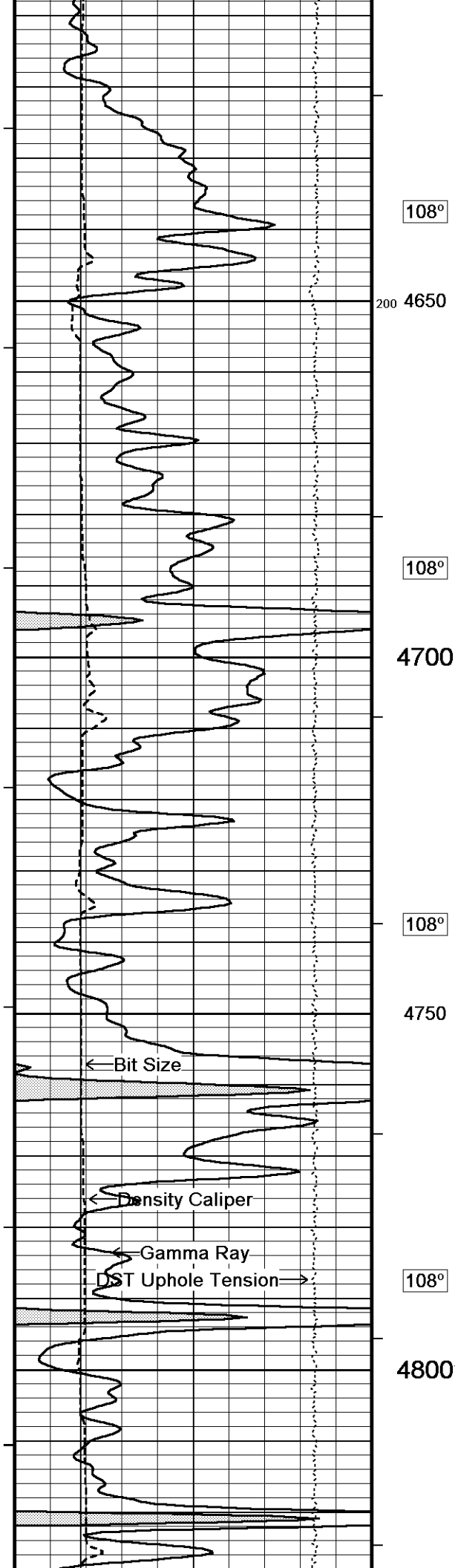
Limestone Neutron Por.

MMR MicroLog Inverse

MMR MicroLog Normal







108°

200 4650

108°

4700

108°

4750

← Bit Size

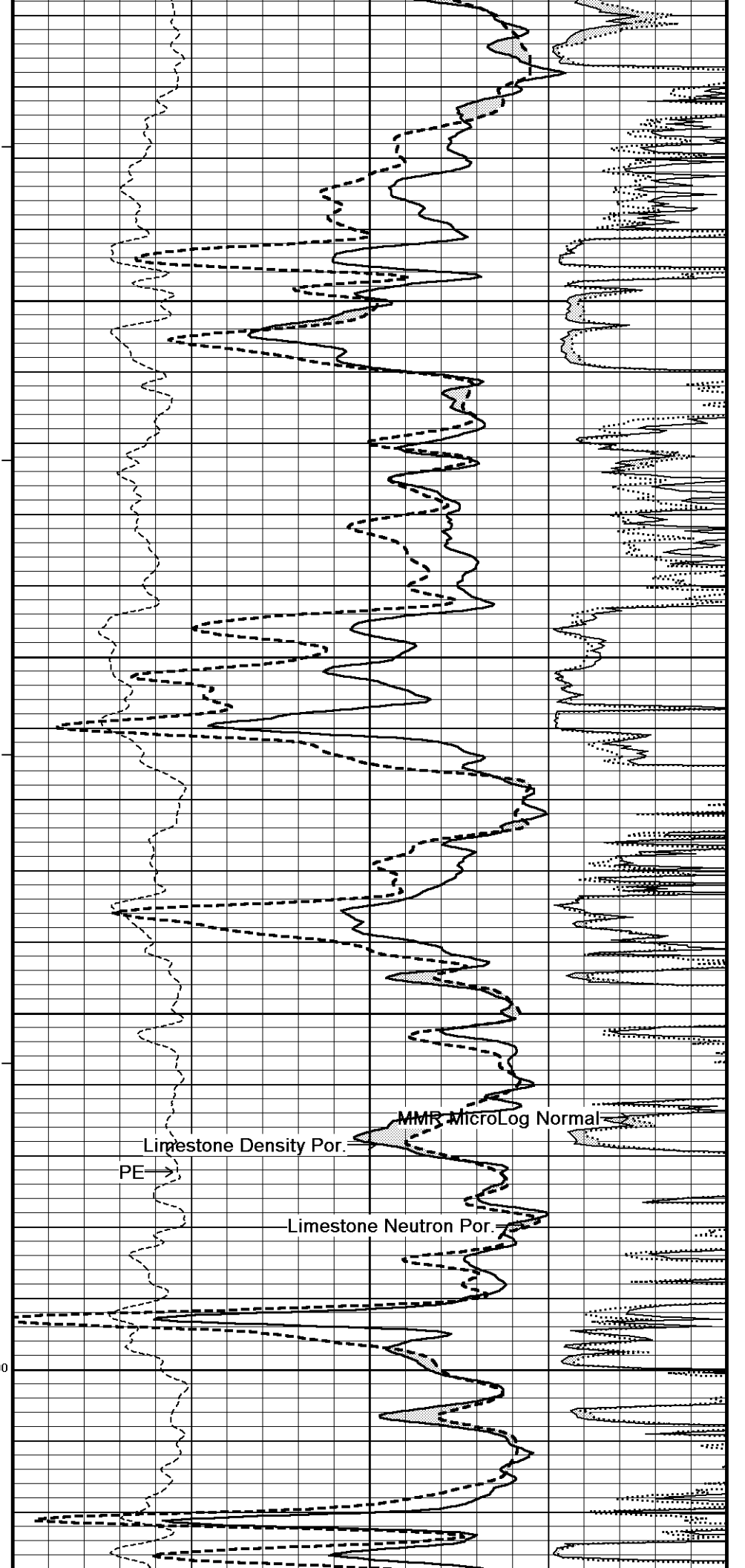
Density Caliper

Gamma Ray

DST Uphole Tension →

108°

4800¹⁰⁰

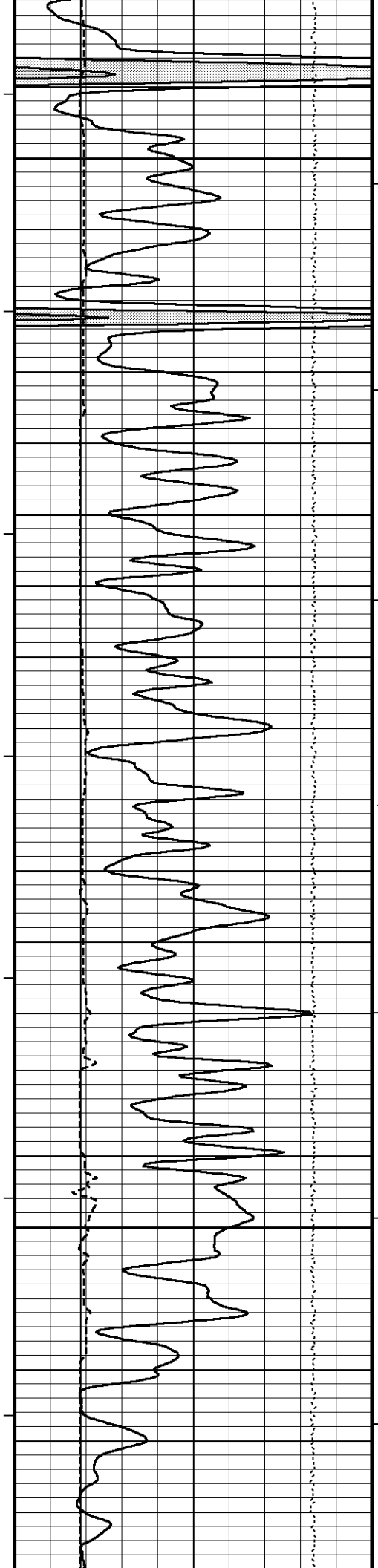


Limestone Density Por.

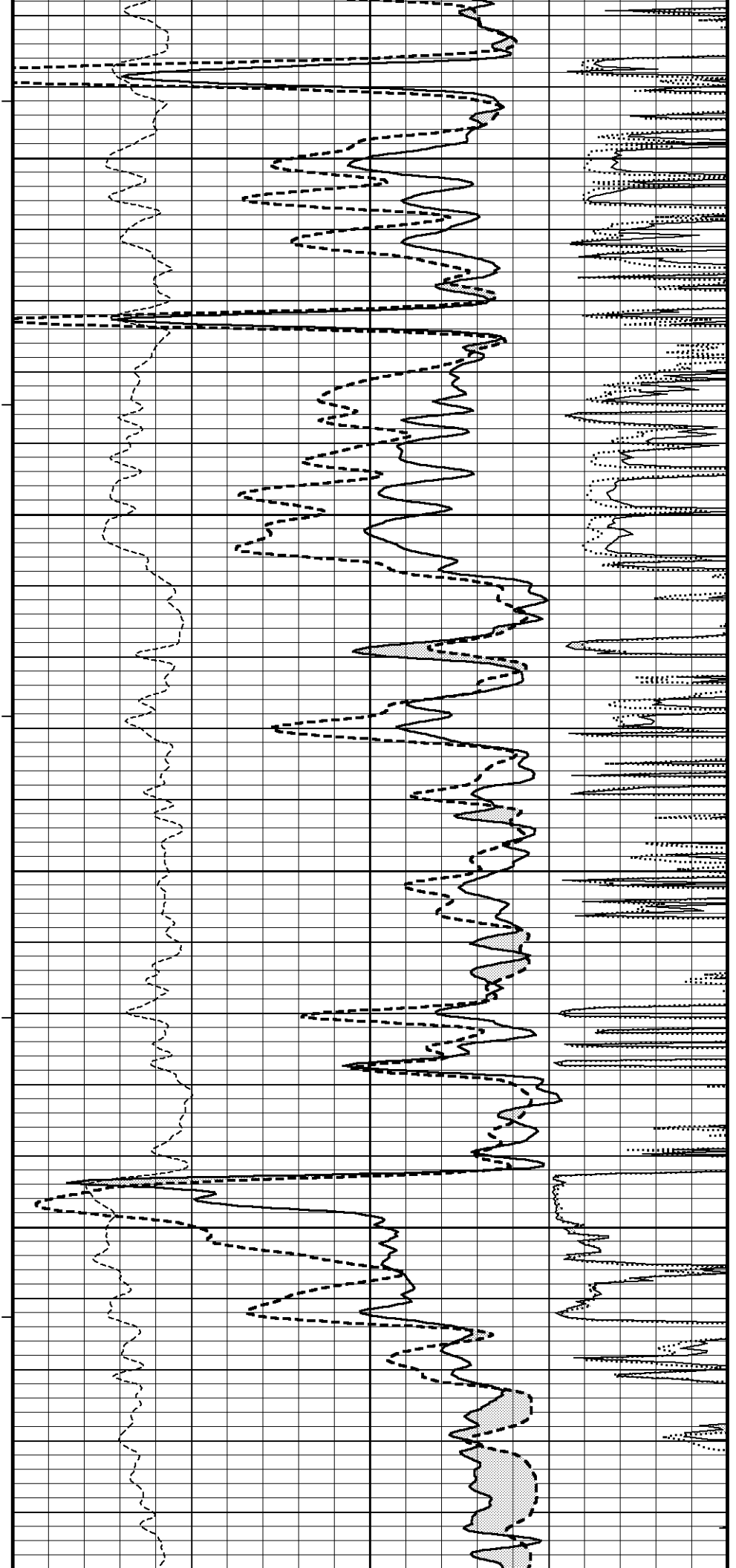
PE →

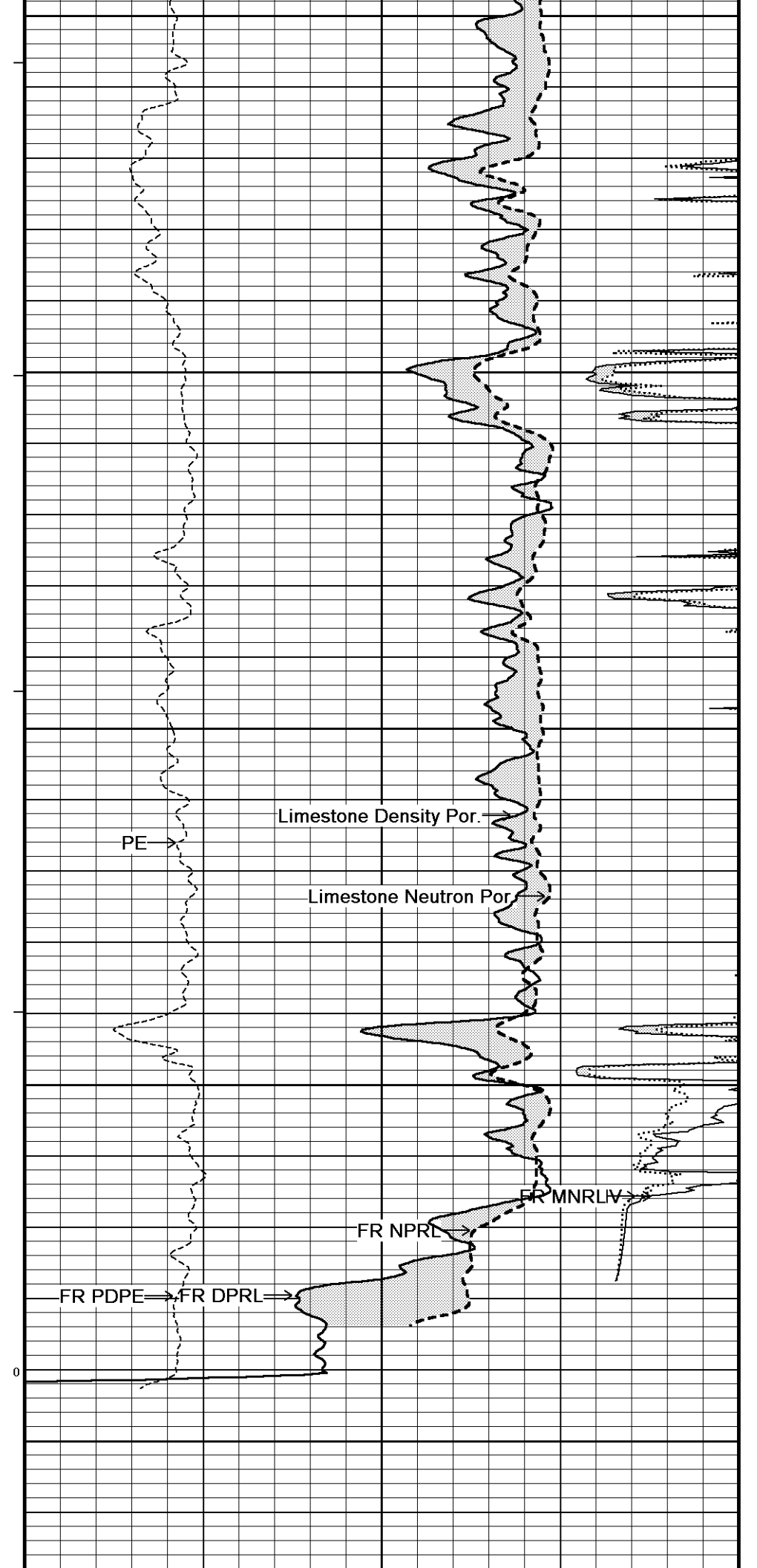
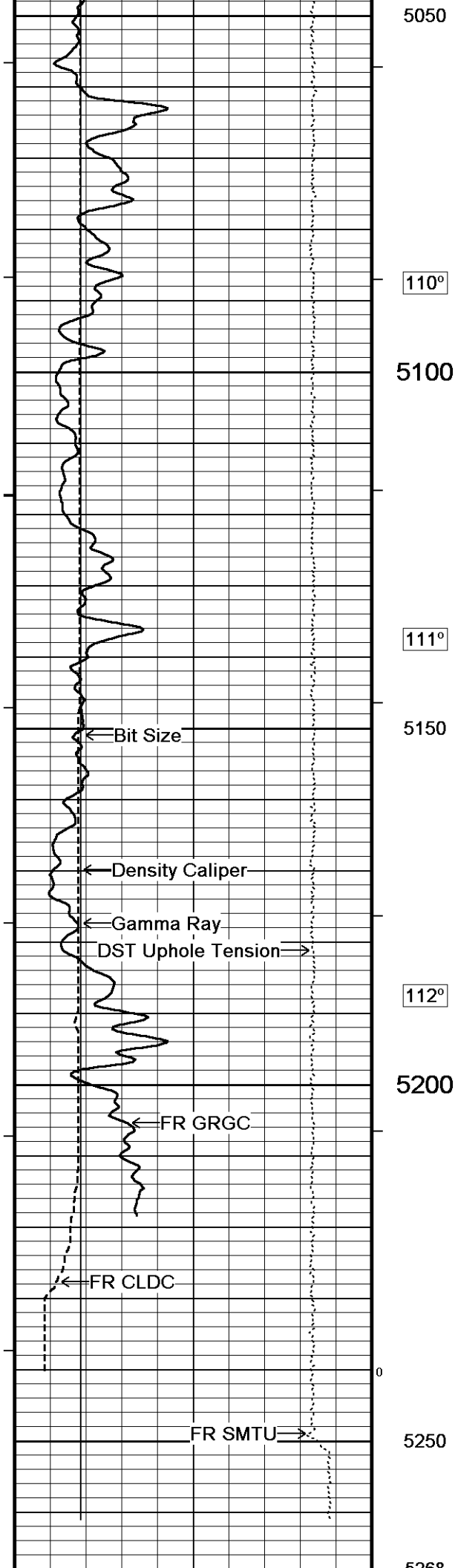
Limestone Neutron Por.

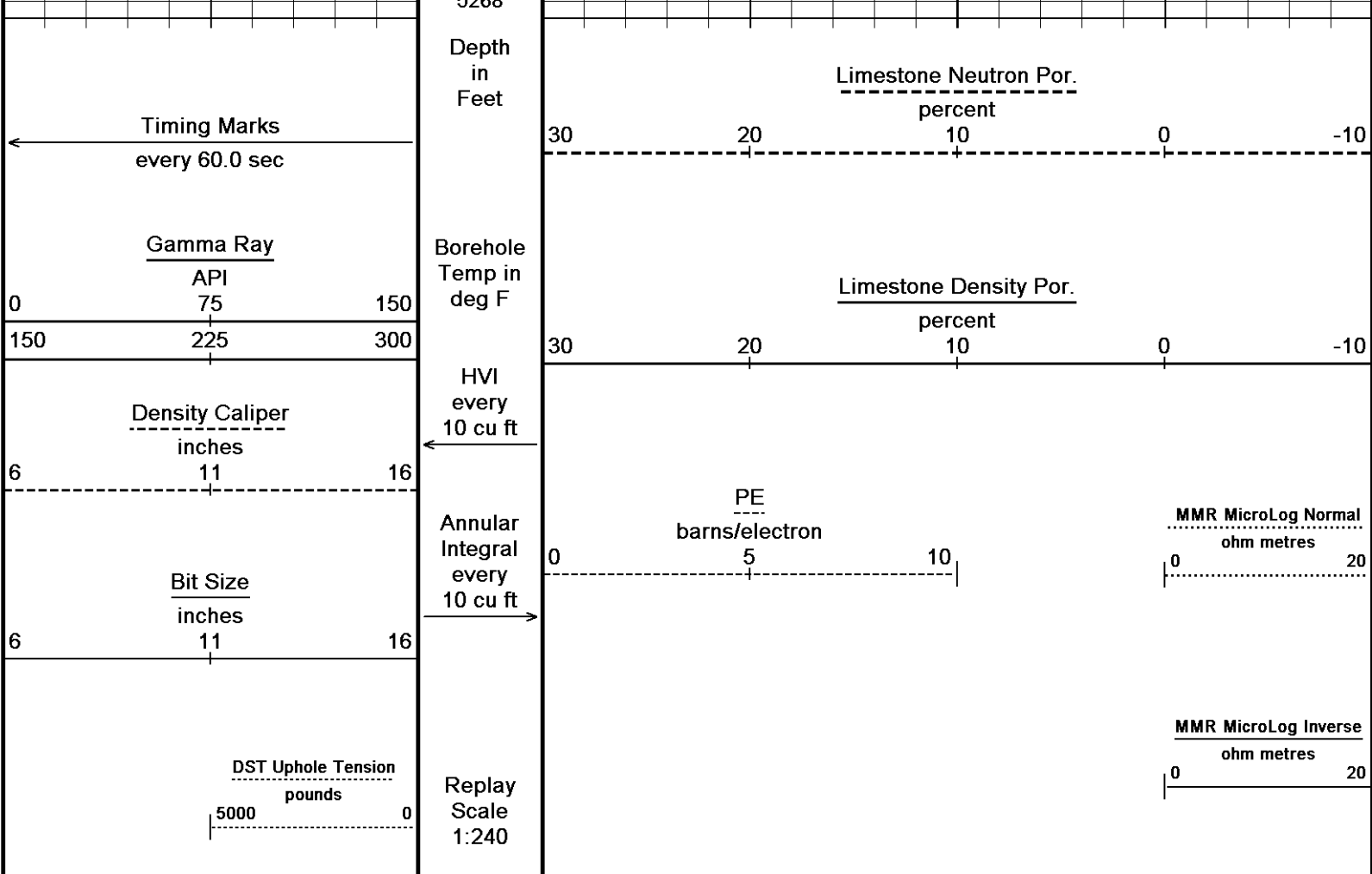
MMR MicroLog Normal



108°
4850
108°
4900
109°
4950
110°
5000
110°







Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 13.04.8492\Data\McCoy Petroleum Y...\McCoy Petroleum 'G' Yost #1-18_001.dta
System Versions: Logged with 13.04.8492 Plotted with 13.04.8492

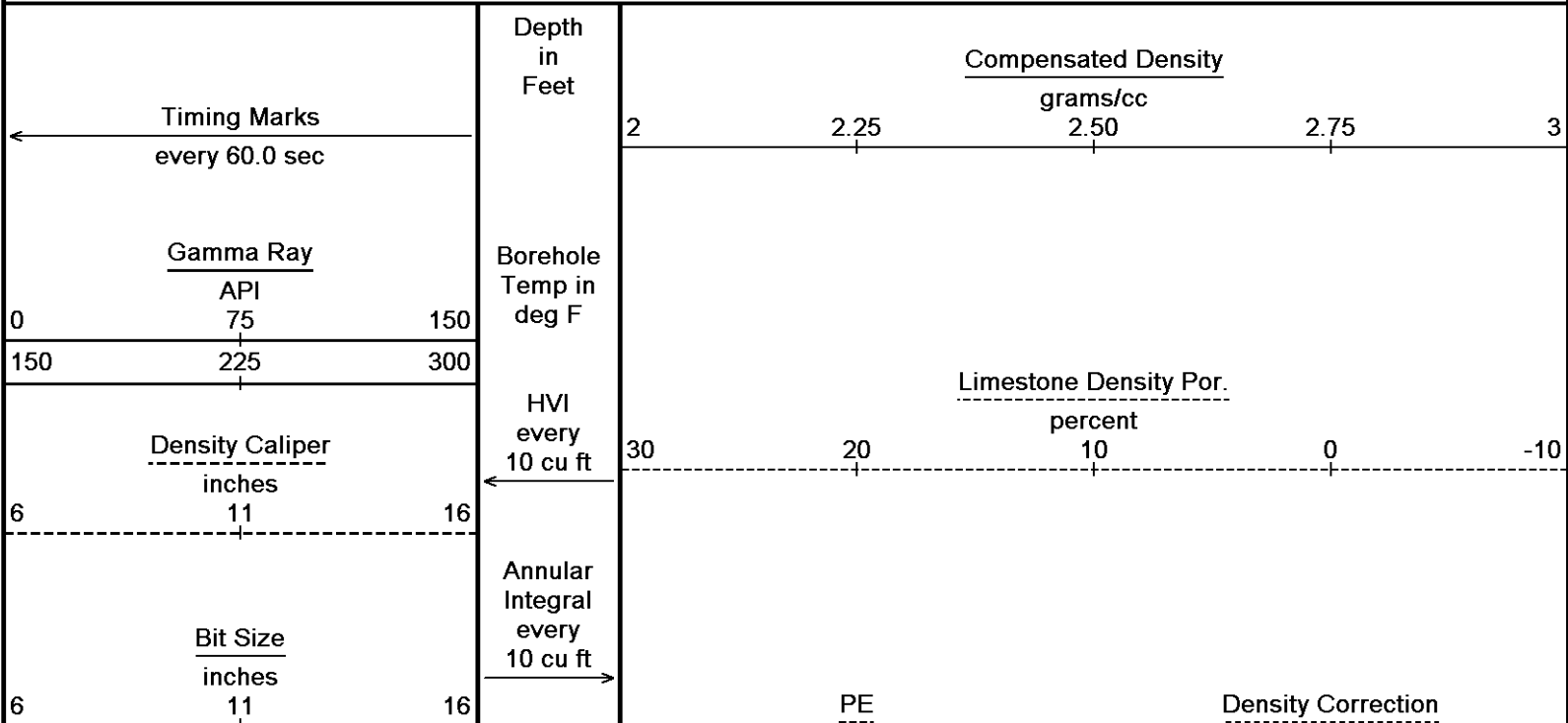
Plotted on 30-DEC-2012 01:43
Recorded on 29-DEC-2012 22:49

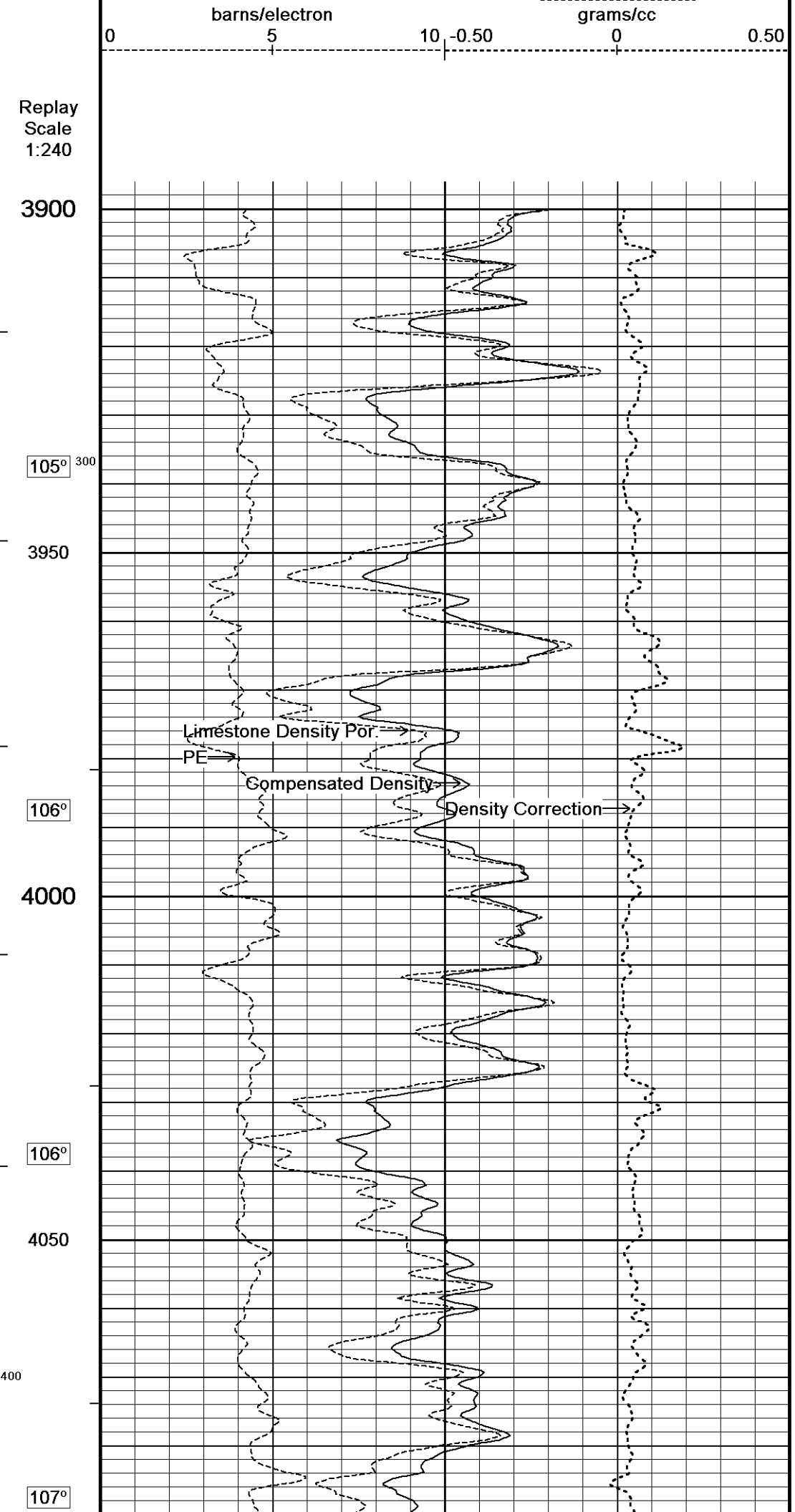
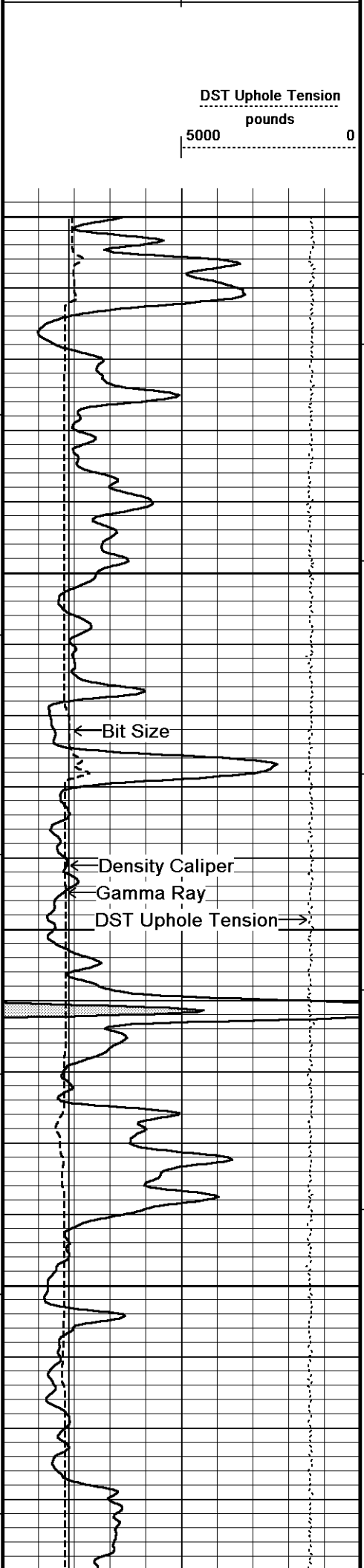
↑ REPEAT SECTION ↑

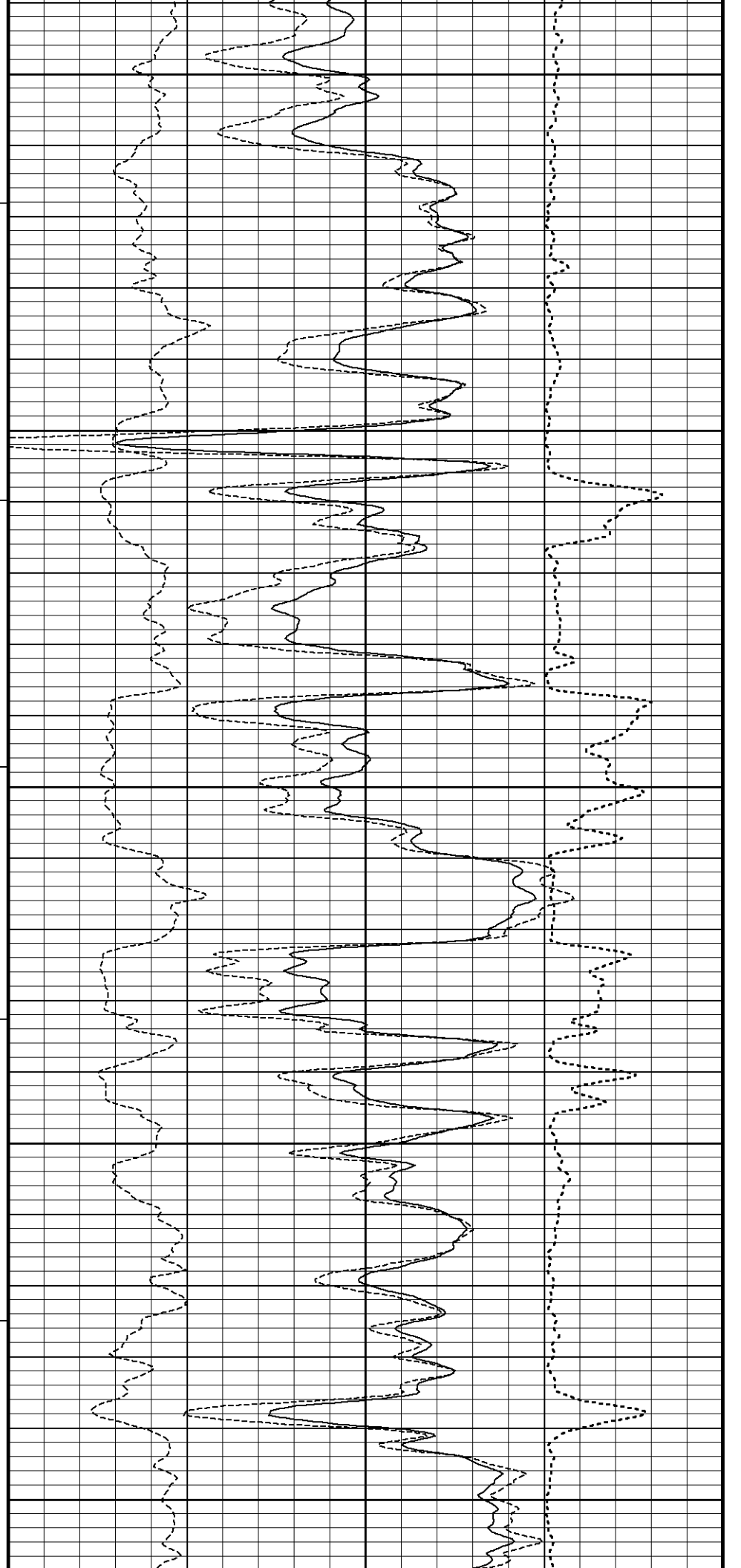
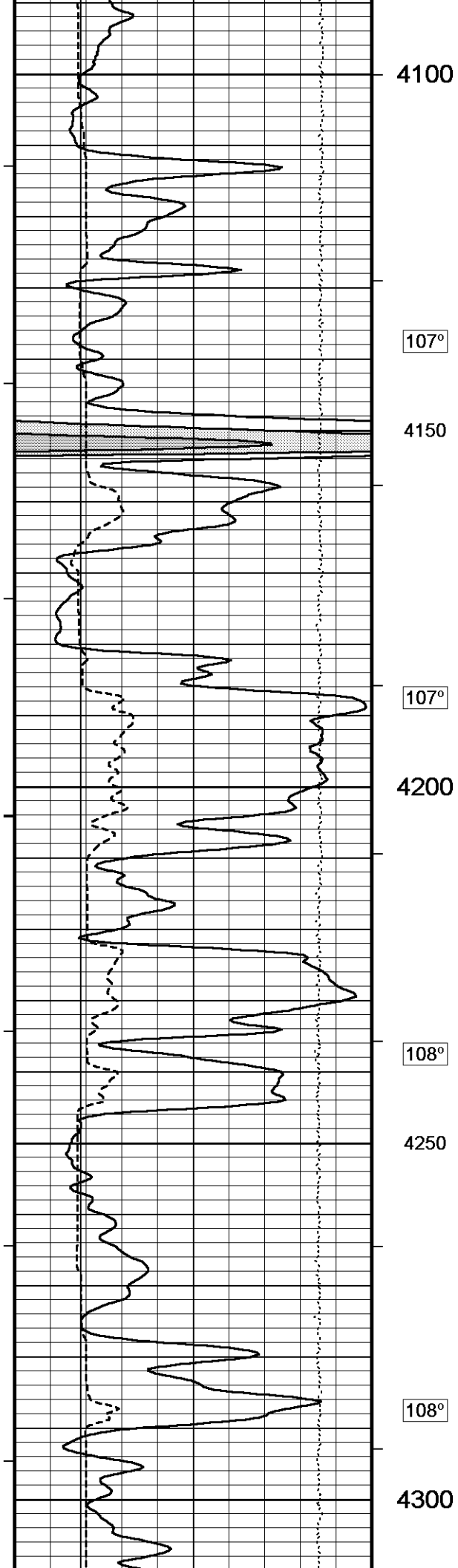
↓ 5 INCH MAIN ↓

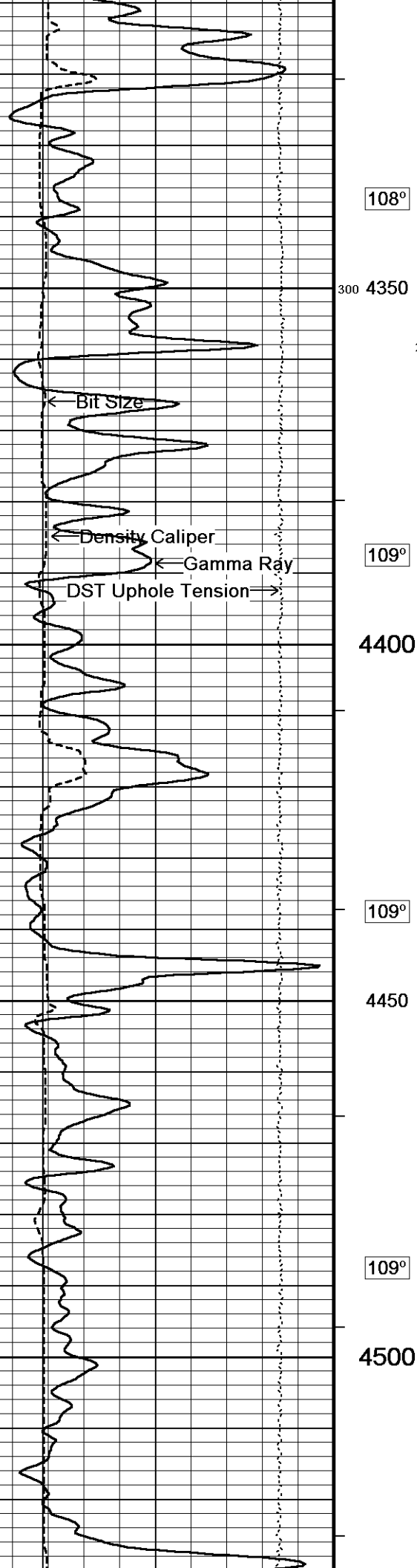
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 13.04.8492\Data\McCoy Petroleum Y...\McCoy Petroleum 'G' Yost #1-18_002.dta
System Versions: Logged with 13.04.8492 Plotted with 13.04.8492

Plotted on 30-DEC-2012 01:43
Recorded on 29-DEC-2012 23:49









108°

300 4350

200

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

109°

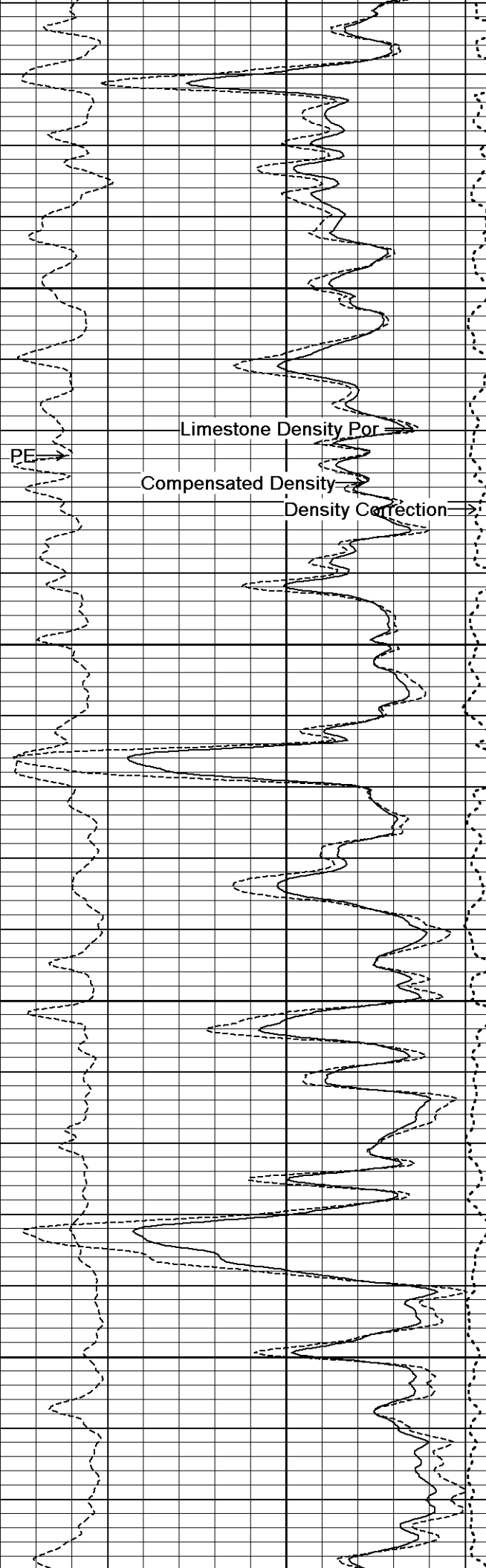
4400

109°

4450

109°

4500

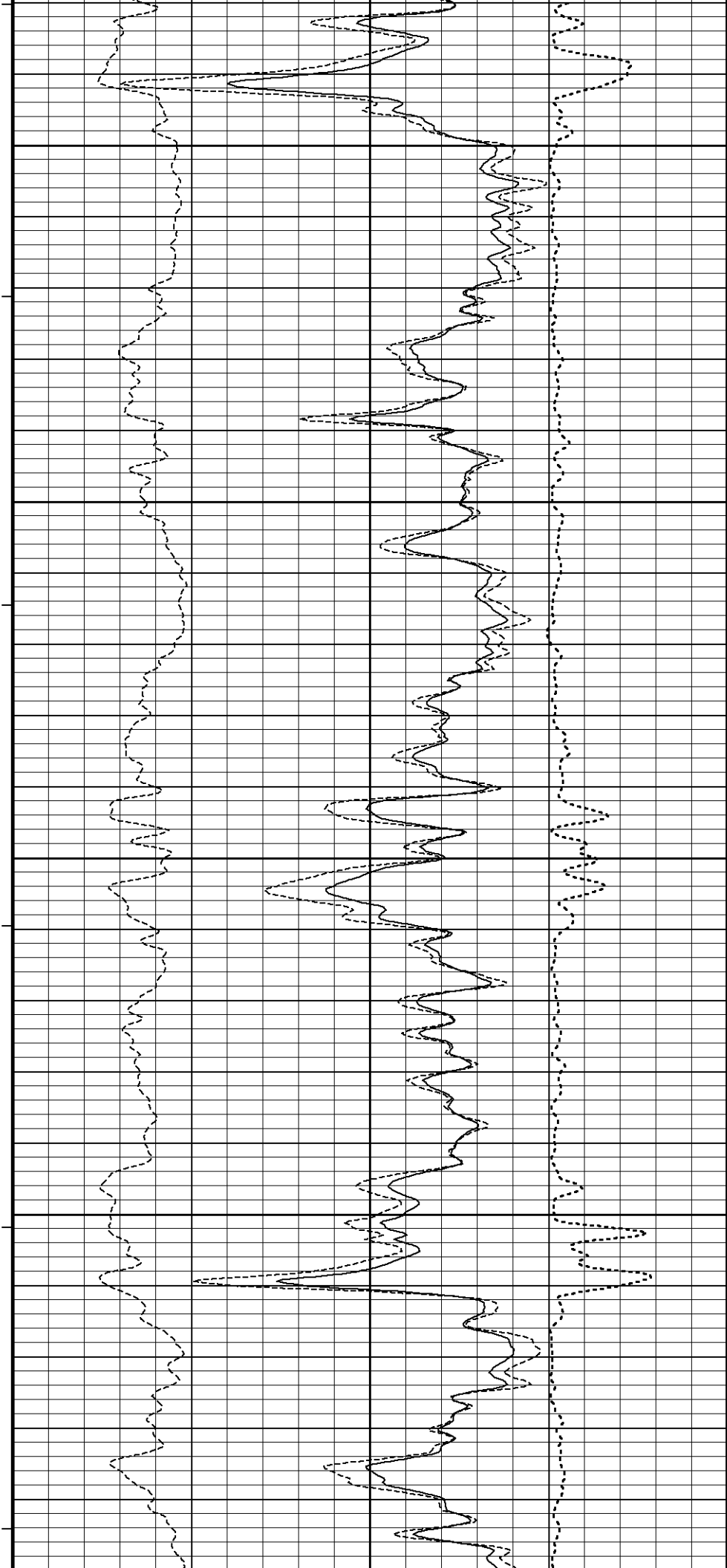
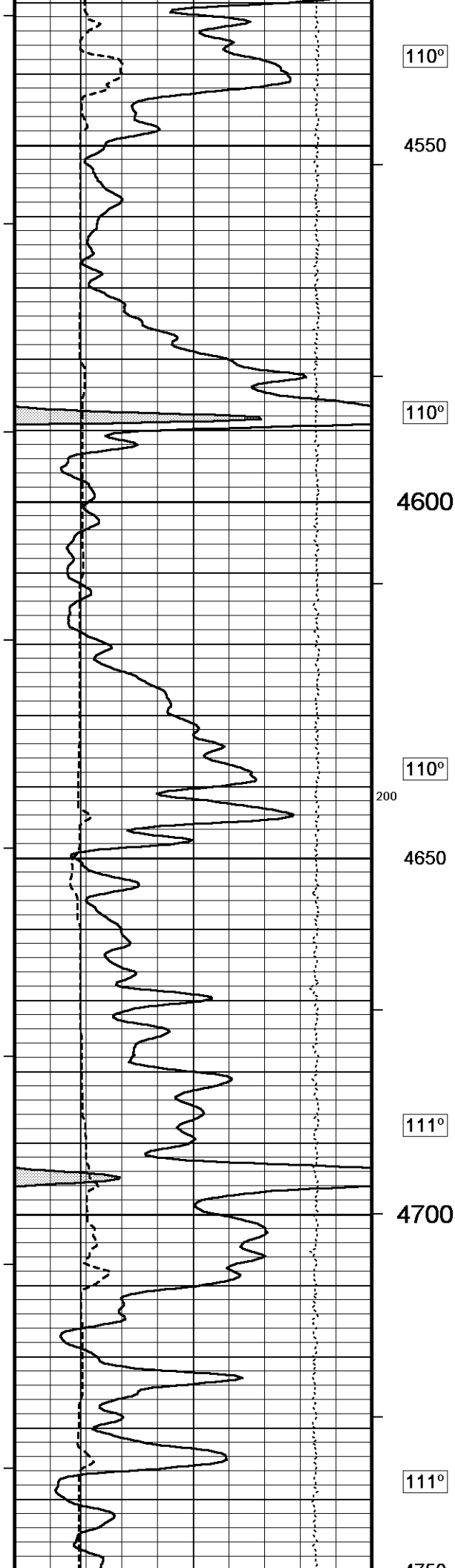


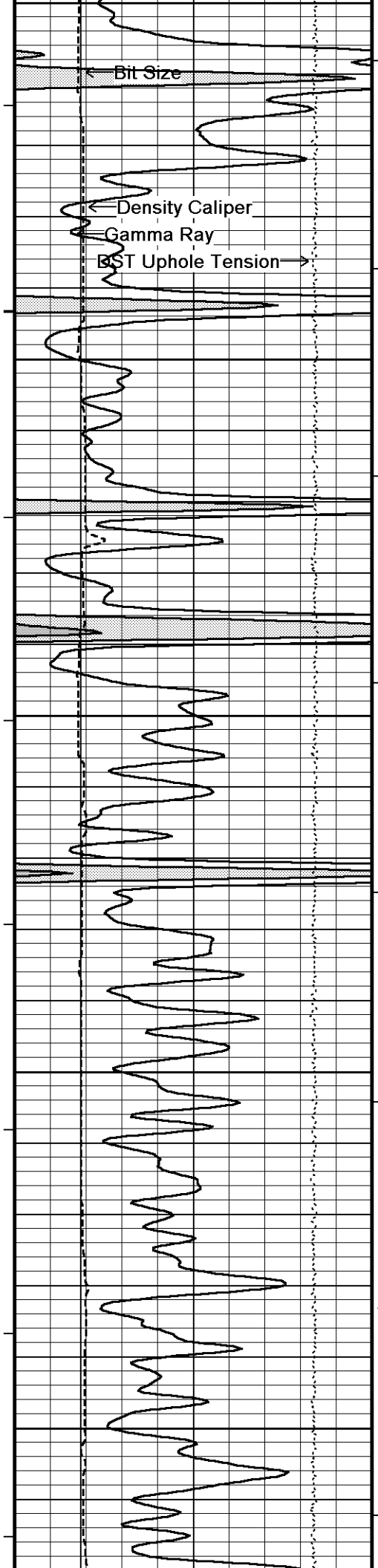
PE

Limestone Density Por

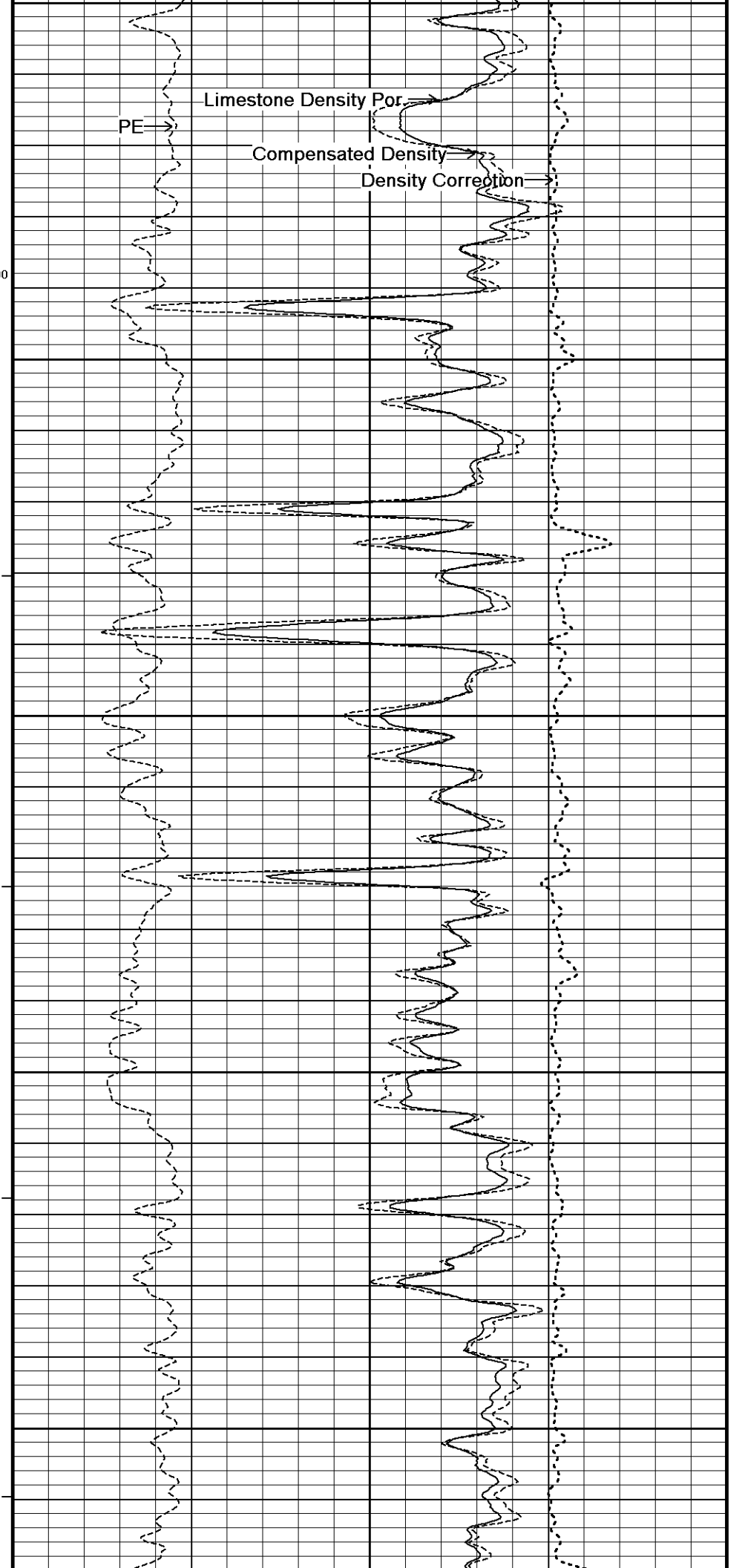
Compensated Density

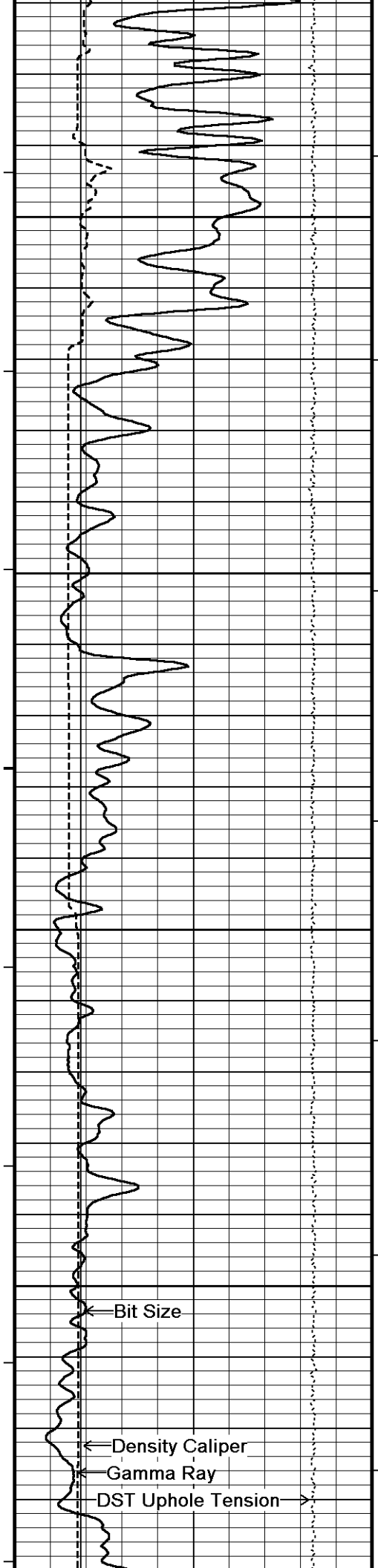
Density Correction



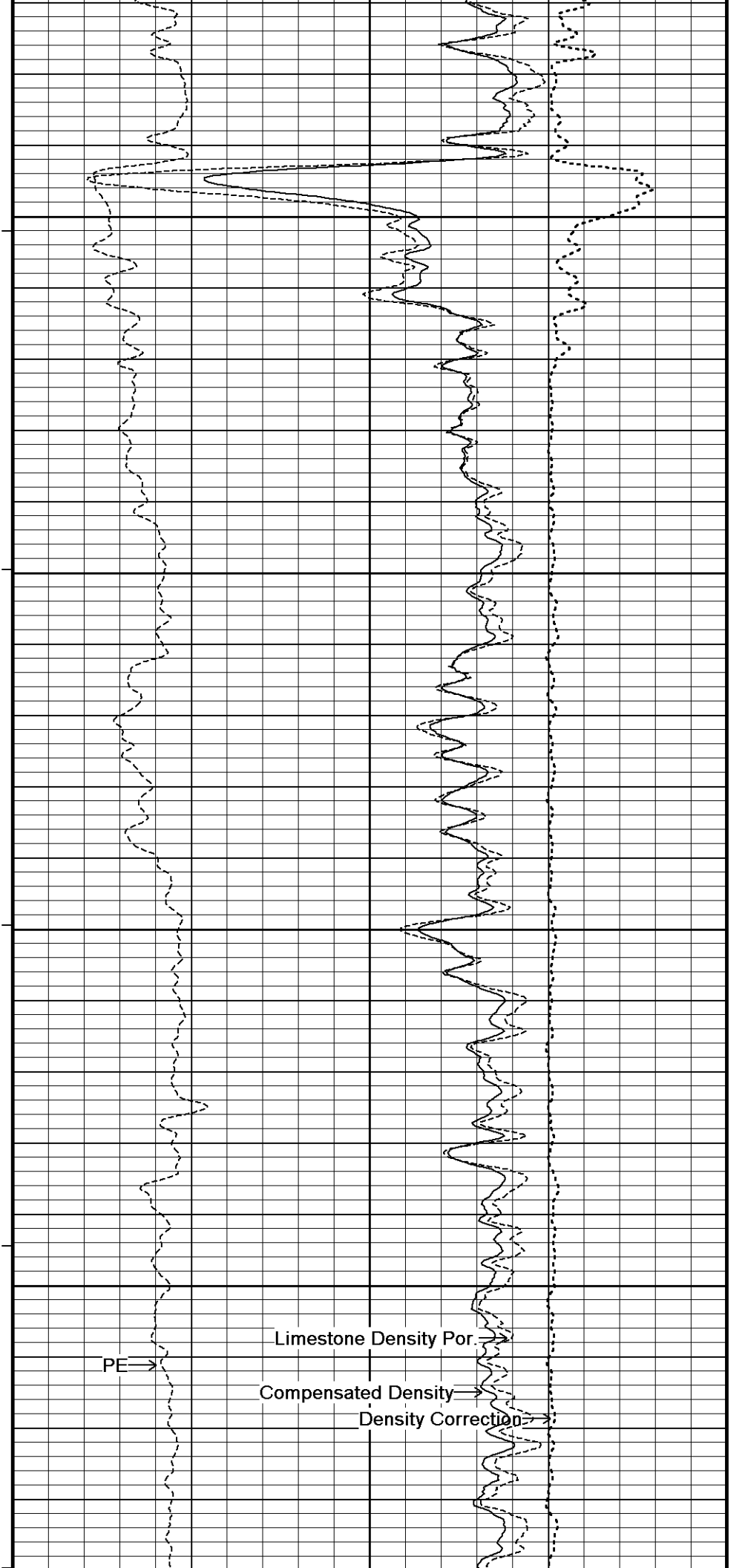


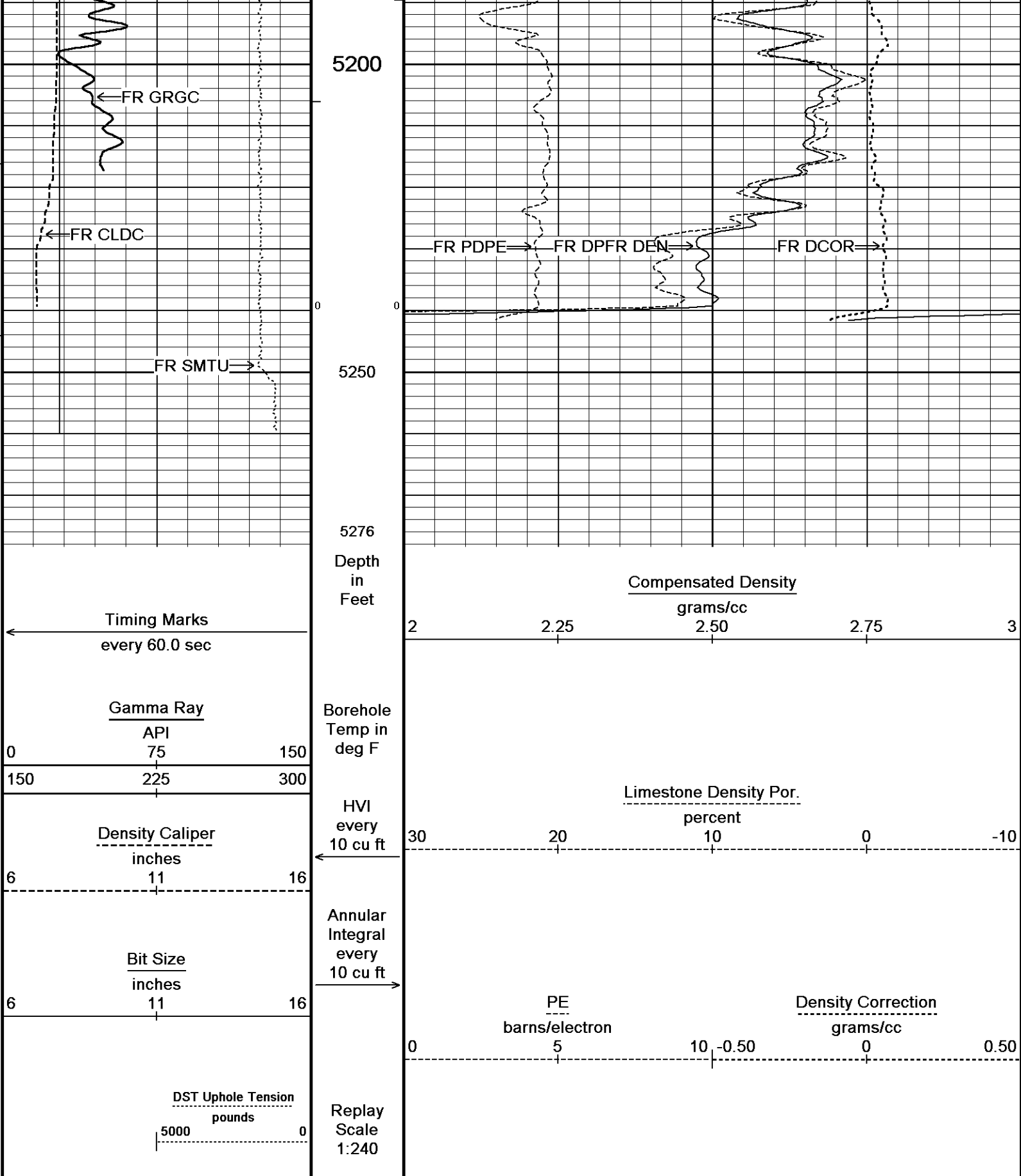
4750
111° 100
4800
112°
4850
112°
4900
100
113°
4950





114°
5000
114°
5050
114°
5100
114°
5150
114°





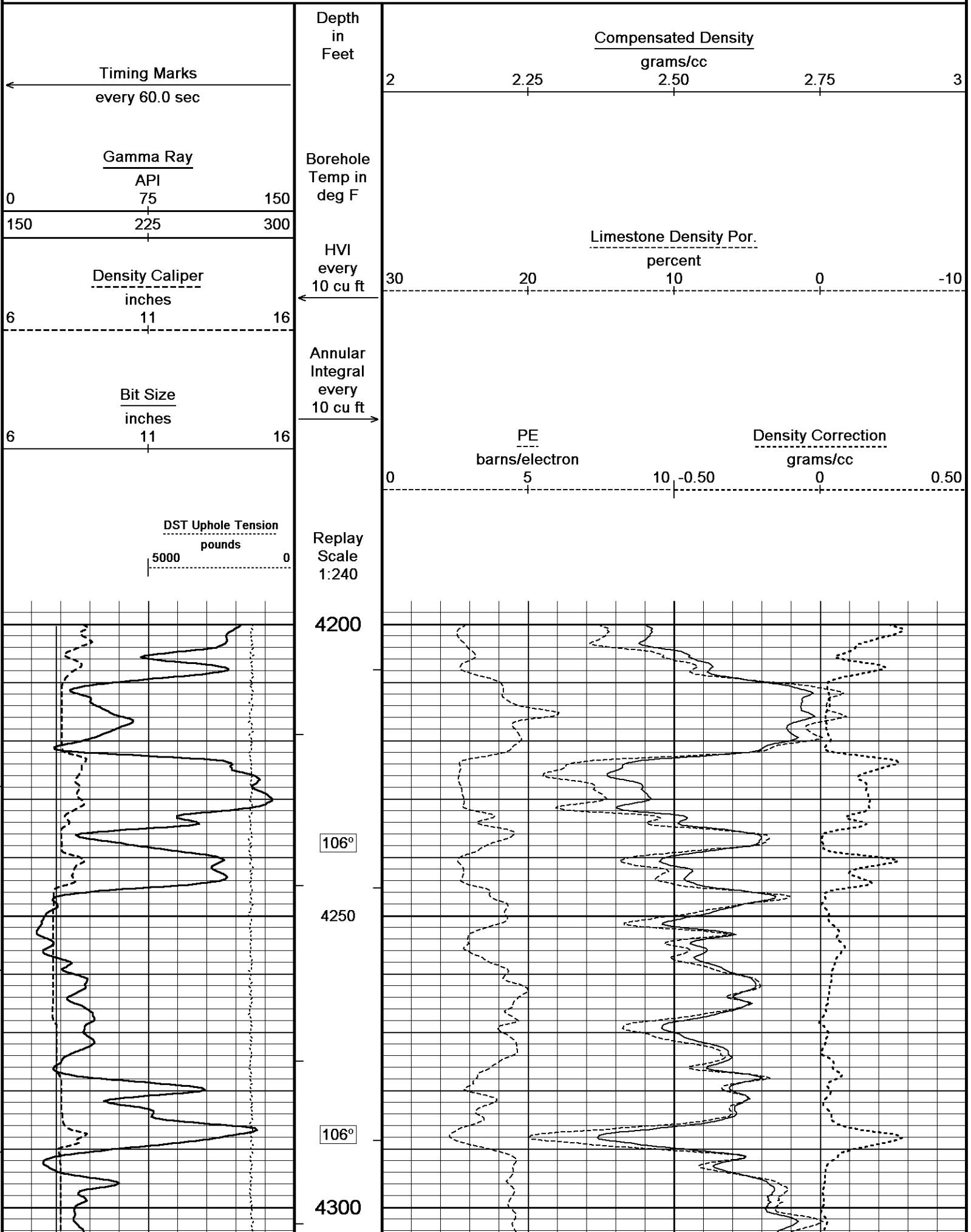
Depth Based Data - Maximum Sampling Increment 10.0cm
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System Versions: Logged with 13.04.8492 Plotted with 13.04.8492

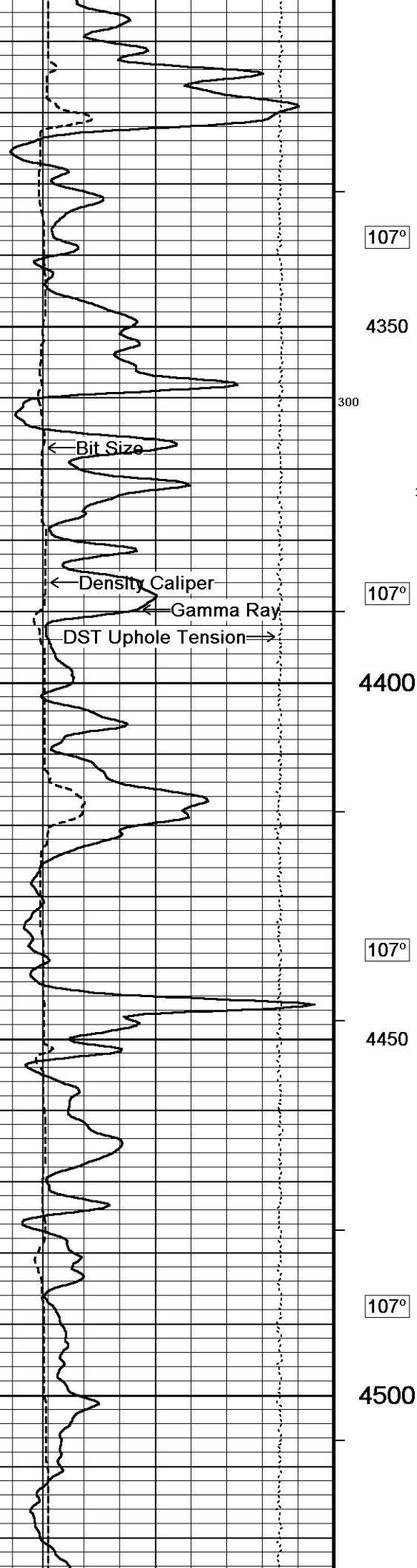
Plotted on 30-DEC-2012 01:43
Recorded on 29-DEC-2012 23:49

↑ 5 INCH MAIN ↑

↓ REPEAT SECTION ↓

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 30-DEC-2012 01:43





107°

4350

300

200

107°

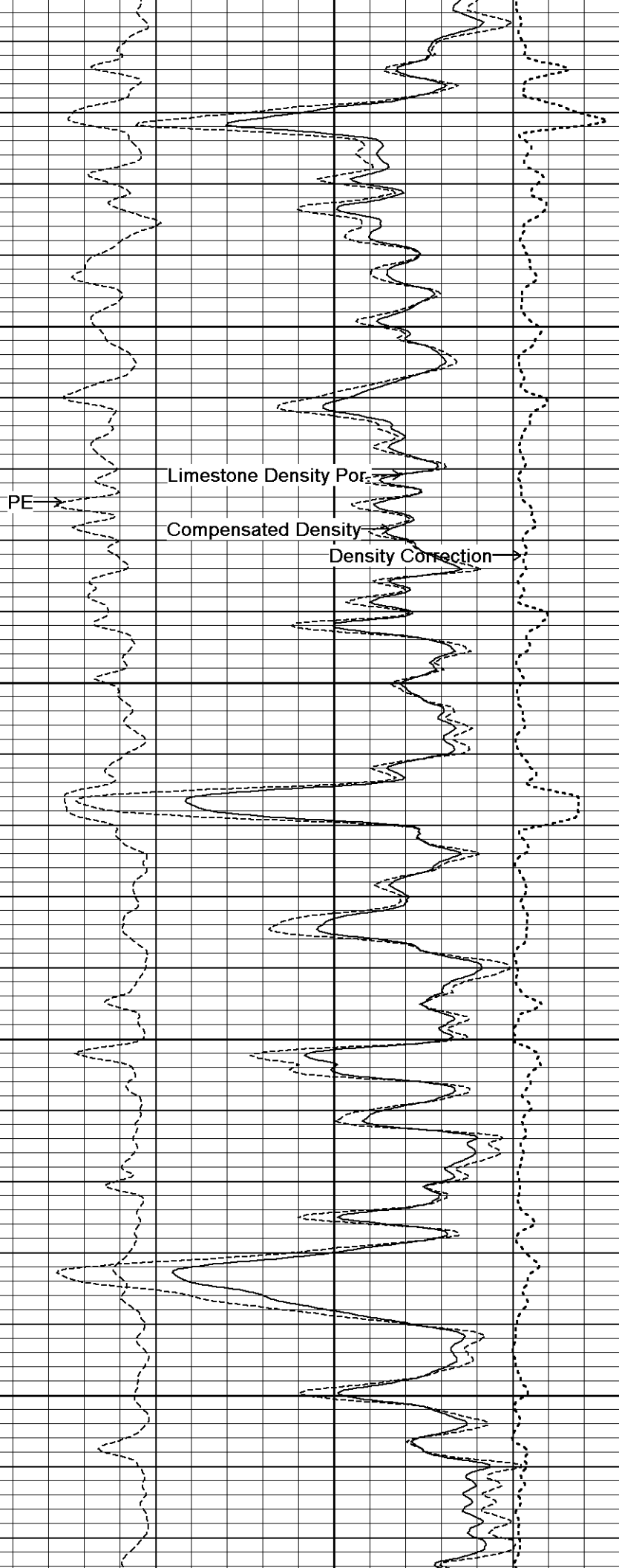
4400

107°

4450

107°

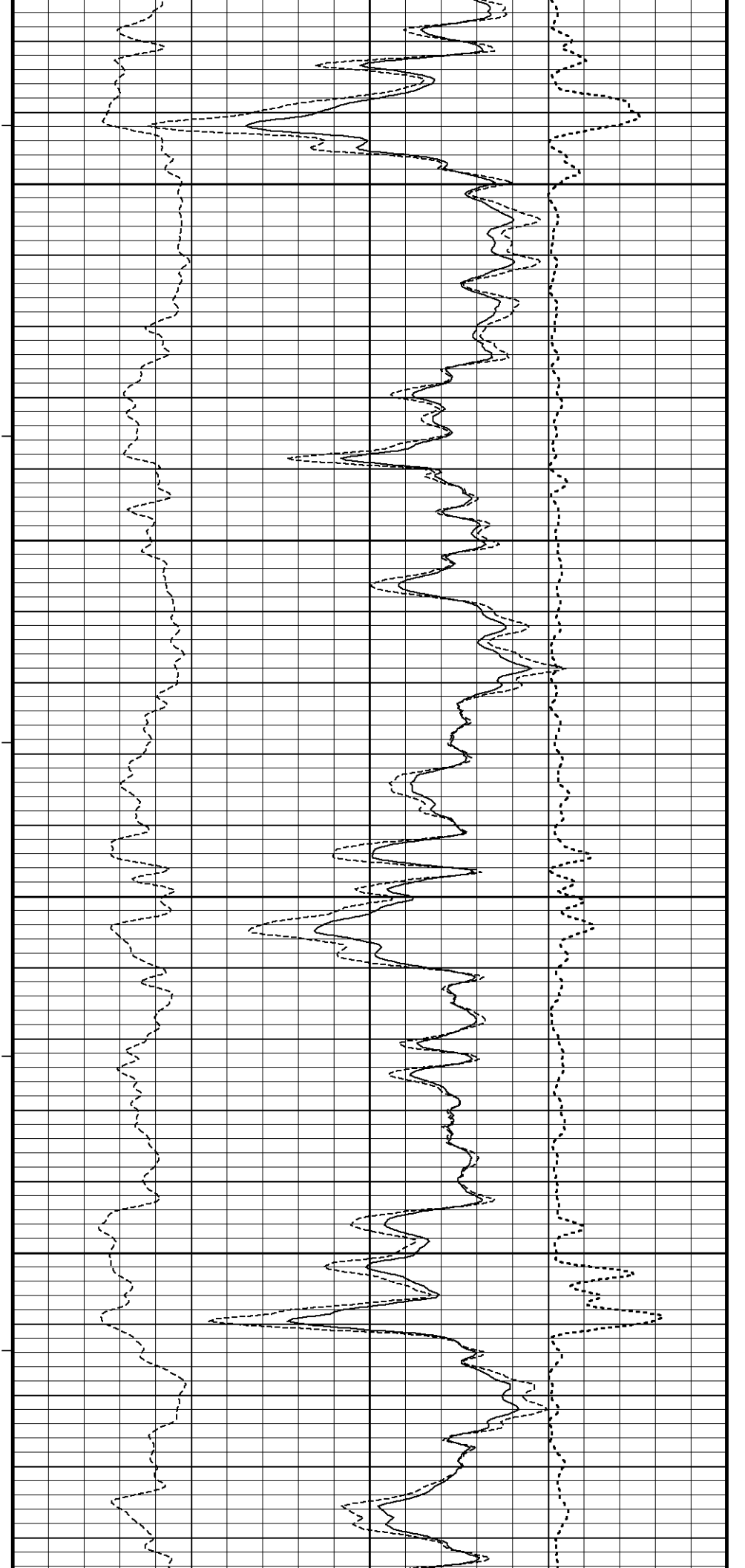
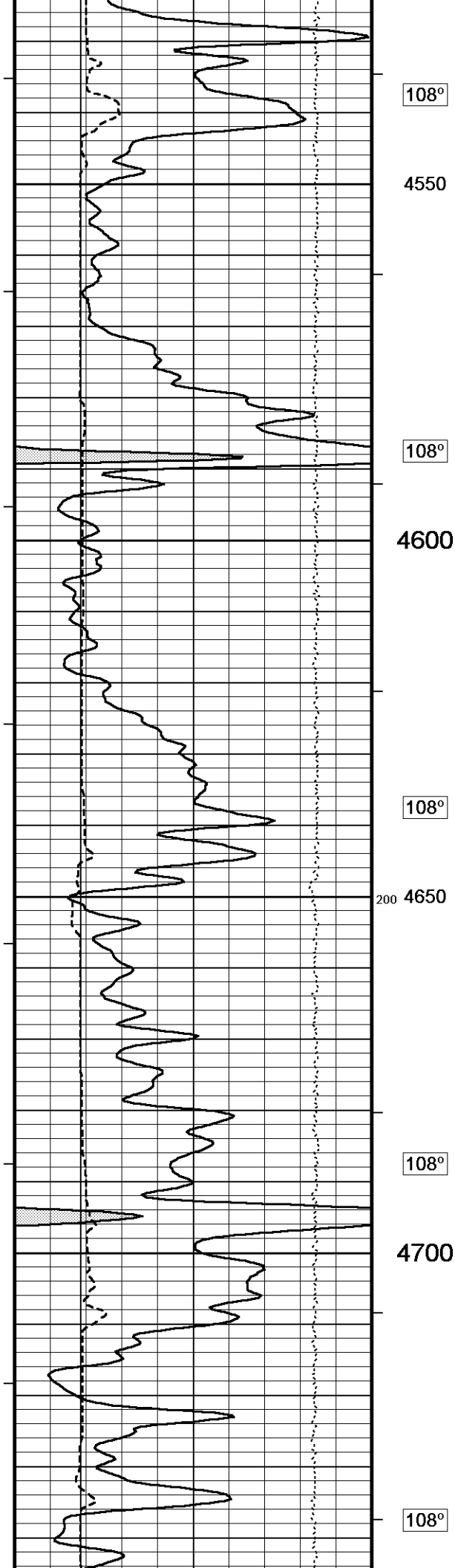
4500

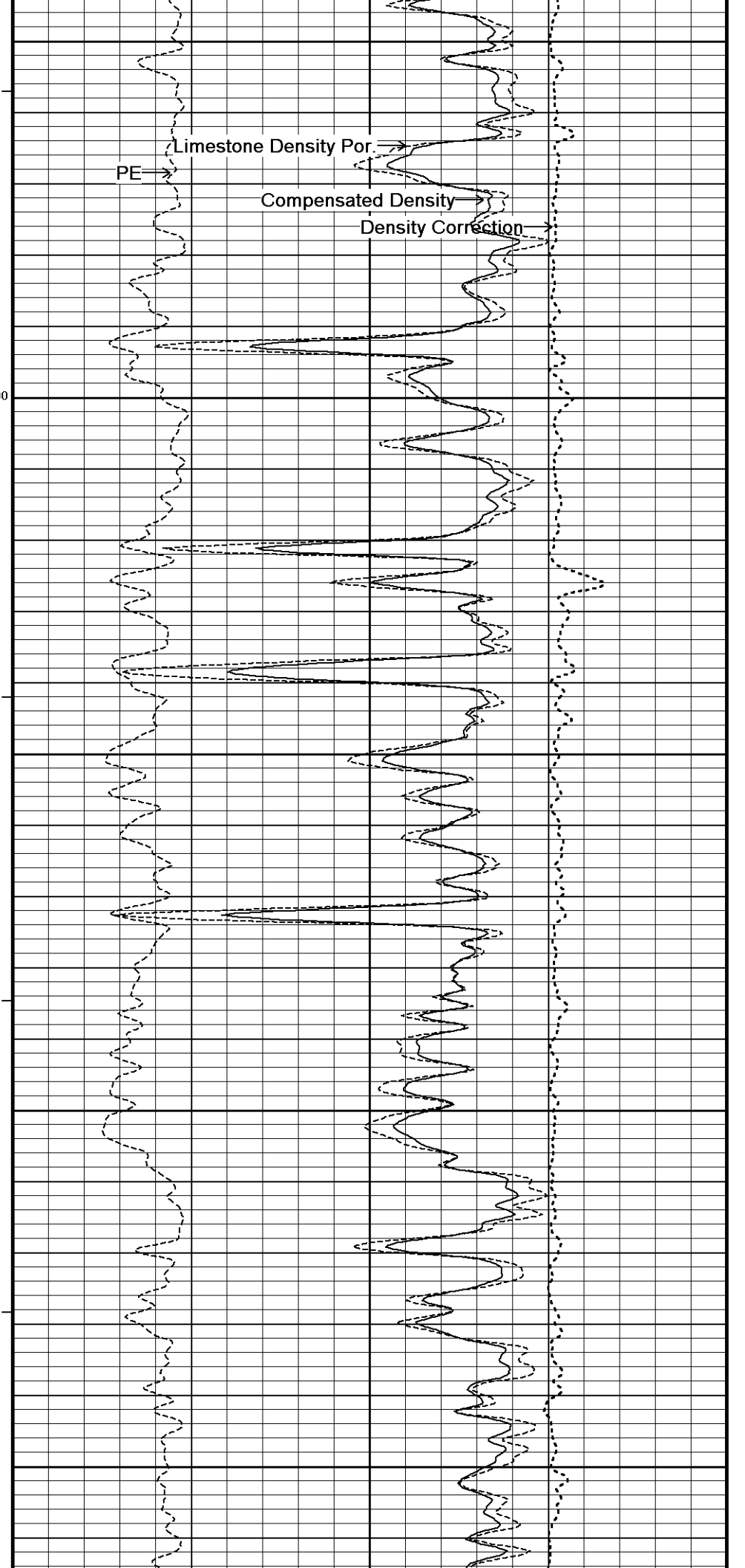
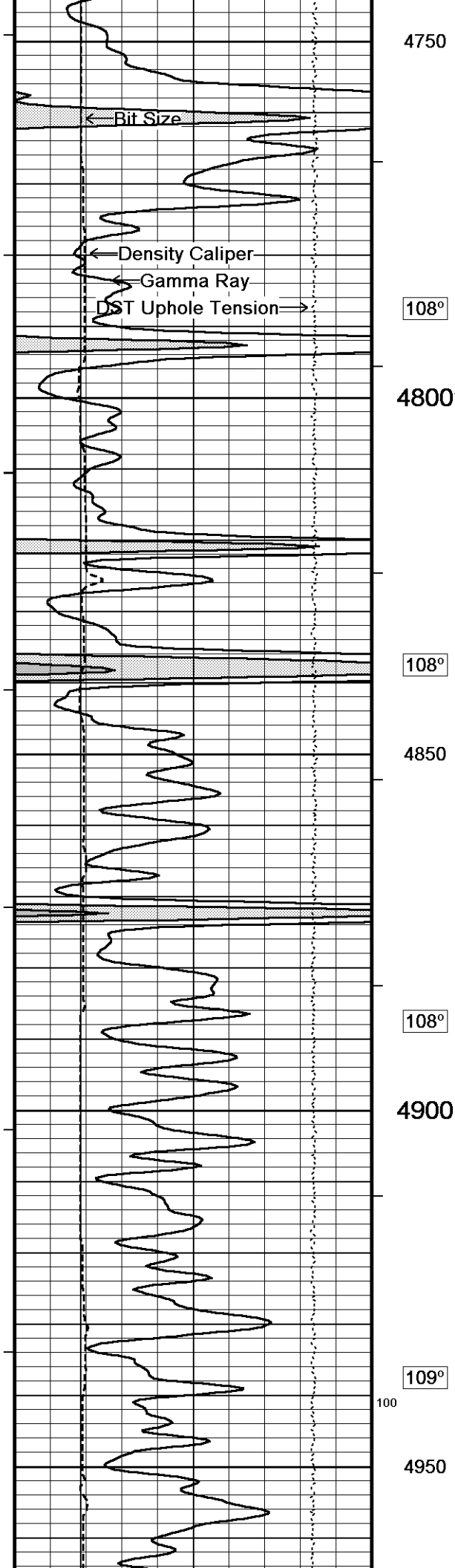


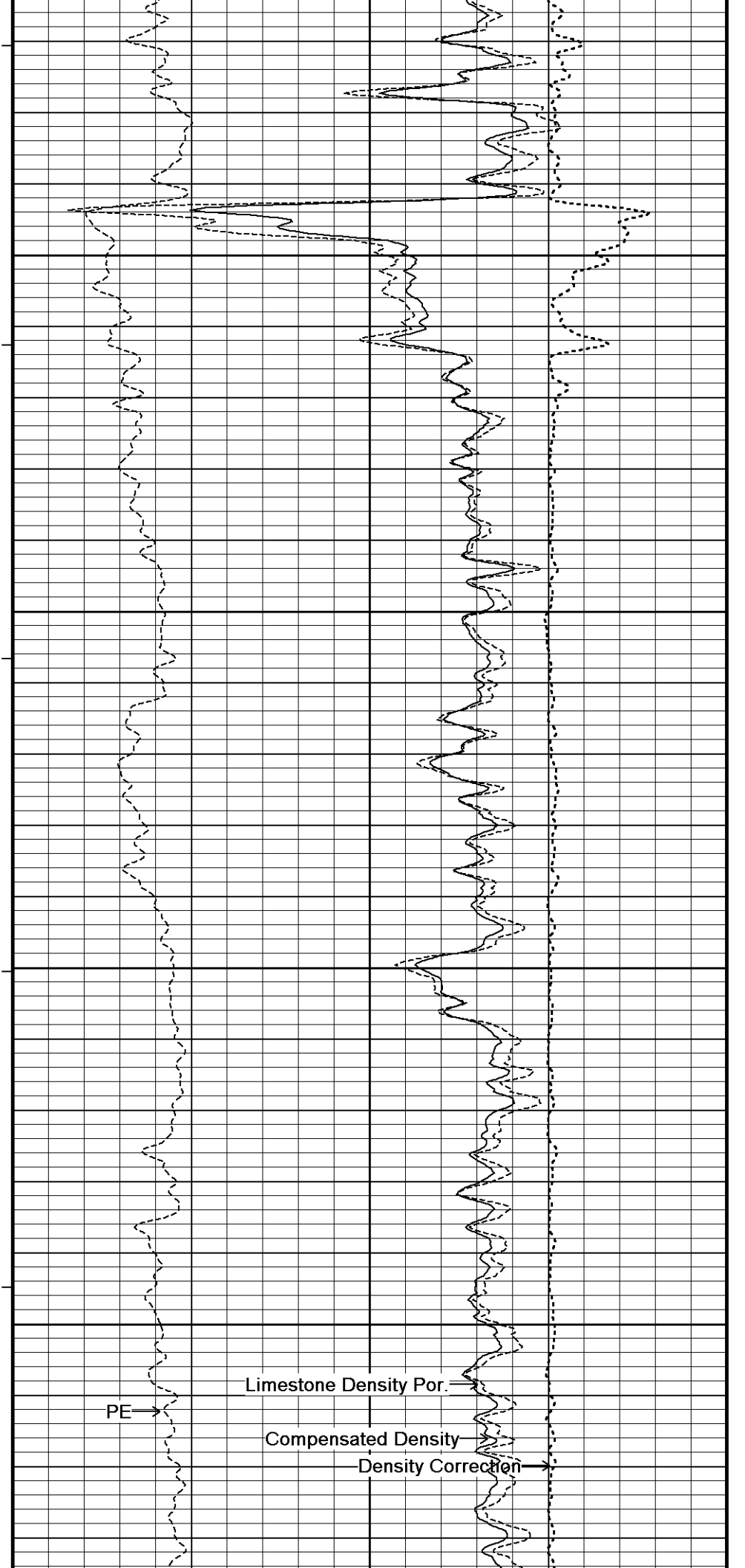
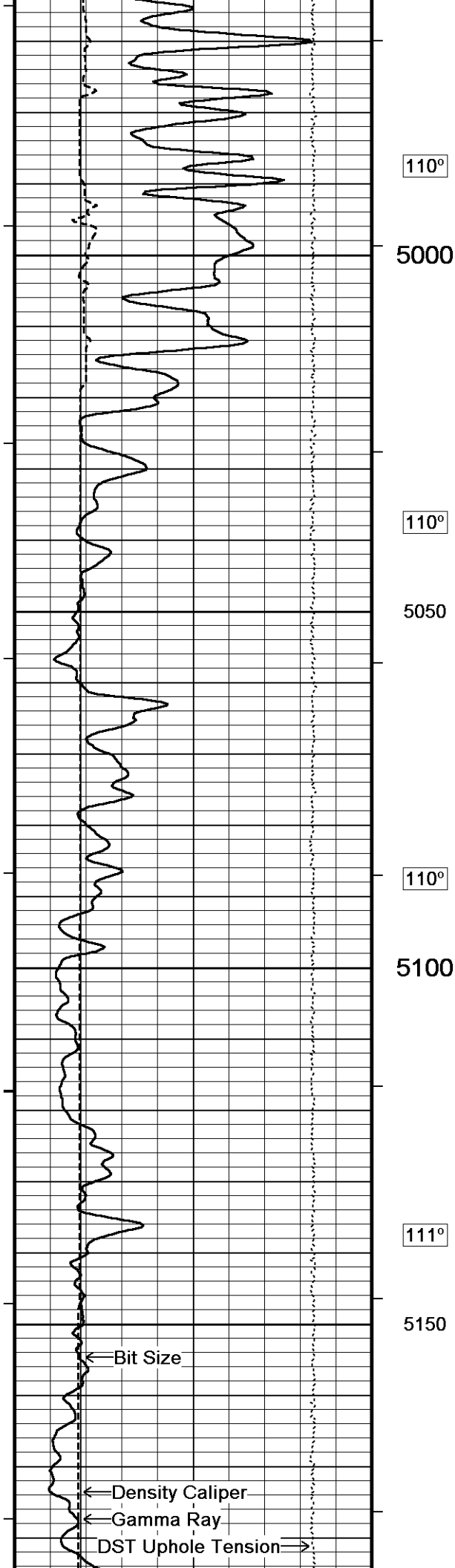
Limestone Density Por.

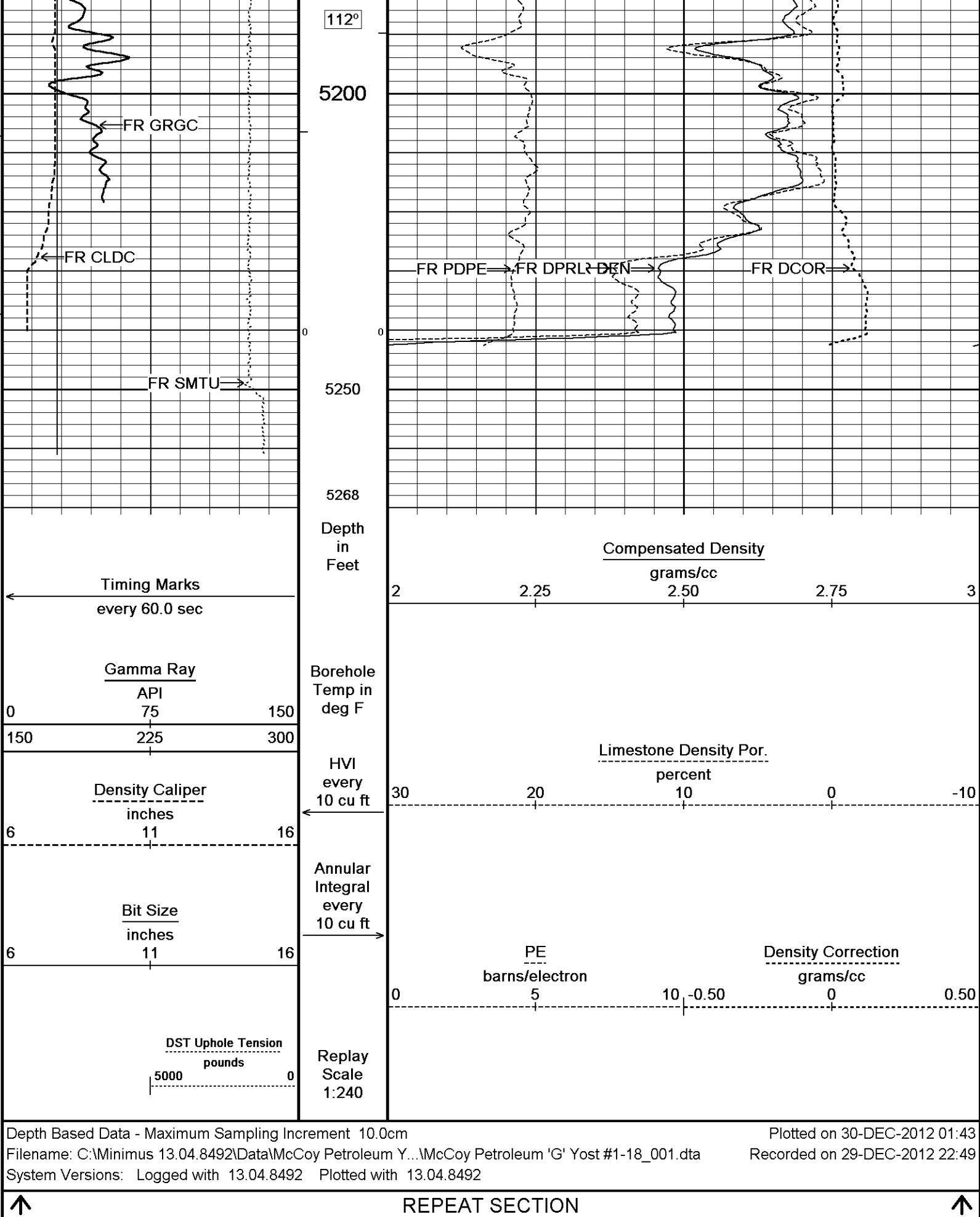
Compensated Density

Density Correction









BEFORE SURVEY CALIBRATION

C:\Minimus 13.04.8492\Data\McCoy Petroleum Yost 'G' #1-18\McCoy Petroleum 'G' Yost #1-18_001.dta

General Parameters

Mud Resistivity	0.540	ohm-metres
Mud Resistivity Temperature	90.000	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	4.500	inches
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Four Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

High Resolution Temperature Calibration MCG-C 208

Field Calibration on 05-NOV-2012,14:26

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

High Resolution Temperature Constants MCG-C 208

Last Edited on 05-NOV-2012,14:25

Pre-filter Length	11
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Gamma Calibration MCG-C 208

Field Calibration on 29-DEC-2012 16:00

	Measured	Calibrated (API)
Background	66	46
Calibrator (Gross)	1117	771
Calibrator (Net)	1051	725

Gamma Constants MCG-C 208

Last Edited on 29-DEC-2012,20:03

Gamma Calibrator Number	GR38	
Mud Density	1.11	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Caliper Calibration MPD-B 31

Base Calibration on 13-DEC-2012 14:11

Field Calibration on 29-DEC-2012 15:52

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	15472	3.99
2	24160	5.98
3	32703	7.97
4	41008	9.86
5	50231	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.97	5.98

Photo Density Calibration MPD-B 31

Base Calibration on 13-DEC-2012 14:32

Field Check on 29-DEC-2012 15:50

Density Calibration

Base Calibration

		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	46489	23675	59556	30836
Reference 2	18873	1941	24941	2541

Field Check at Base

683.9	844.6
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Field Check

682.3

840.5

PE Calibration

Base Calibration

	WS	Measured WH	Ratio	Calibrated Ratio
Background	126	608		
Reference 1	18821	46368	0.409	0.371
Reference 2	5566	18789	0.299	0.272

Field Check at Base

125.8 608.0

Field Check

126.0 605.6

Density Constants MPD-B 31

Last Edited on 29-DEC-2012,19:57

Density Source Id	254
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	1.11 gm/cc
Mud Density Z/A Multiplier	1.11
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

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

DOWNHOLE EQUIPMENT

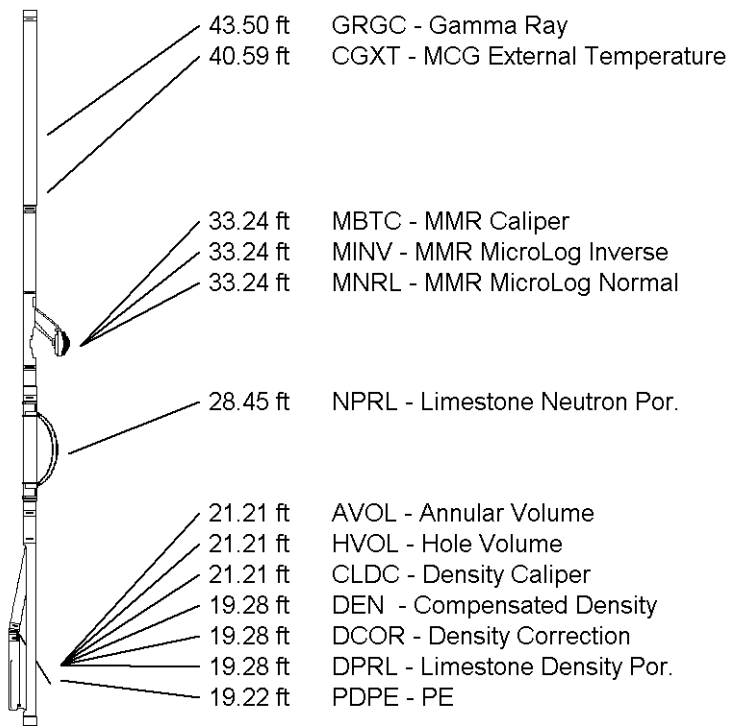
C:\Minimus 13.04.8492\Data\McCoy Petroleum Yost 'G' #1-18\McCoy Petroleum 'G' Yost #1-18_001.dta

Compact Comms Gamma
MCG-C 208 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-Resistivity
MMR-A 11 LG: 8.59 ft WT: 81.6 lb OD: 4.88 in

Compact Neutron
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

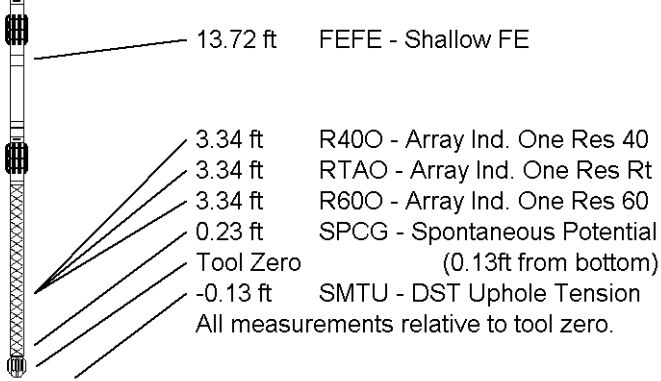
Compact Density/Caliper
MPD-B 31 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in



Compact Focussed Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 45 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 48.78 ft Weight: 383.6 lb



COMPANY	MCCOY PETROLEUM CORP.
WELL	YOST 'G' #1-18
FIELD	WILDCAT
PROVINCE/COUNTY	GRAY
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2763.00	feet	First Reading	5230.00	feet
Elevation Drill Floor	2762.00	feet	Depth Driller	5250.00	feet
Elevation Ground Level	2750.00	feet	Depth Logger	5249.00	feet



Weatherford®

COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG