



Weatherford

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG**

COMPANY		McCoy PETROLEUM CORPORATION	
WELL		FITZGERALD 'A' #5-30	
FIELD		LETTE SE	
PROVINCE/COUNTY		HASKELL	
COUNTRY/STATE		UNITED STATES / KANSAS	
LOCATION		330' FNL & 1320' FEL	
SEC	TWP	RGE	Other Services
30	30S	31W	MAI/MFE
API Number	15-081-22027		MML
Permit Number			
Permanent Datum G.L., Elevation feet			Elevations: feet
Log Measured From KB			KB 2857.00
Drilling Measured From K.B. @ 11 FEET			DF 2855.00
			GL 2846.00
Date	31-AUG-2013		
Run Number	ONE		
Service Order	3541077		
Depth Driller	5700.00		feet
Depth Logger	5701.00		feet
First Reading	5682.00		feet
Last Reading	4000.00		feet
Casing Driller	1821.00		feet
Casing Logger	1821.00		feet
Bit Size	7.880		inches
Hole Fluid Type	CHEMICAL		
Density / Viscosity	9.00 lb/USg	72.00 CP	
PH / Fluid Loss	9.00	9.20 ml/30Min	
Sample Source	MUDPIT		
Rm @ Measured Temp	0.73 @ 75.0	ohm-m	
Rmf @ Measured Temp	0.58 @ 75.0	ohm-m	
Rmc @ Measured Temp	0.88 @ 75.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.43 @128.0	ohm-m	
Time Since Circulation	4 HOURS		
Max Recorded Temp	128.00	deg F	
Equipment / Base	13096	LIB	
Recorded By	W. STAMBAUGH		
Witnessed By	DAVE WILLIAMS		
JOB#	LB13-245		

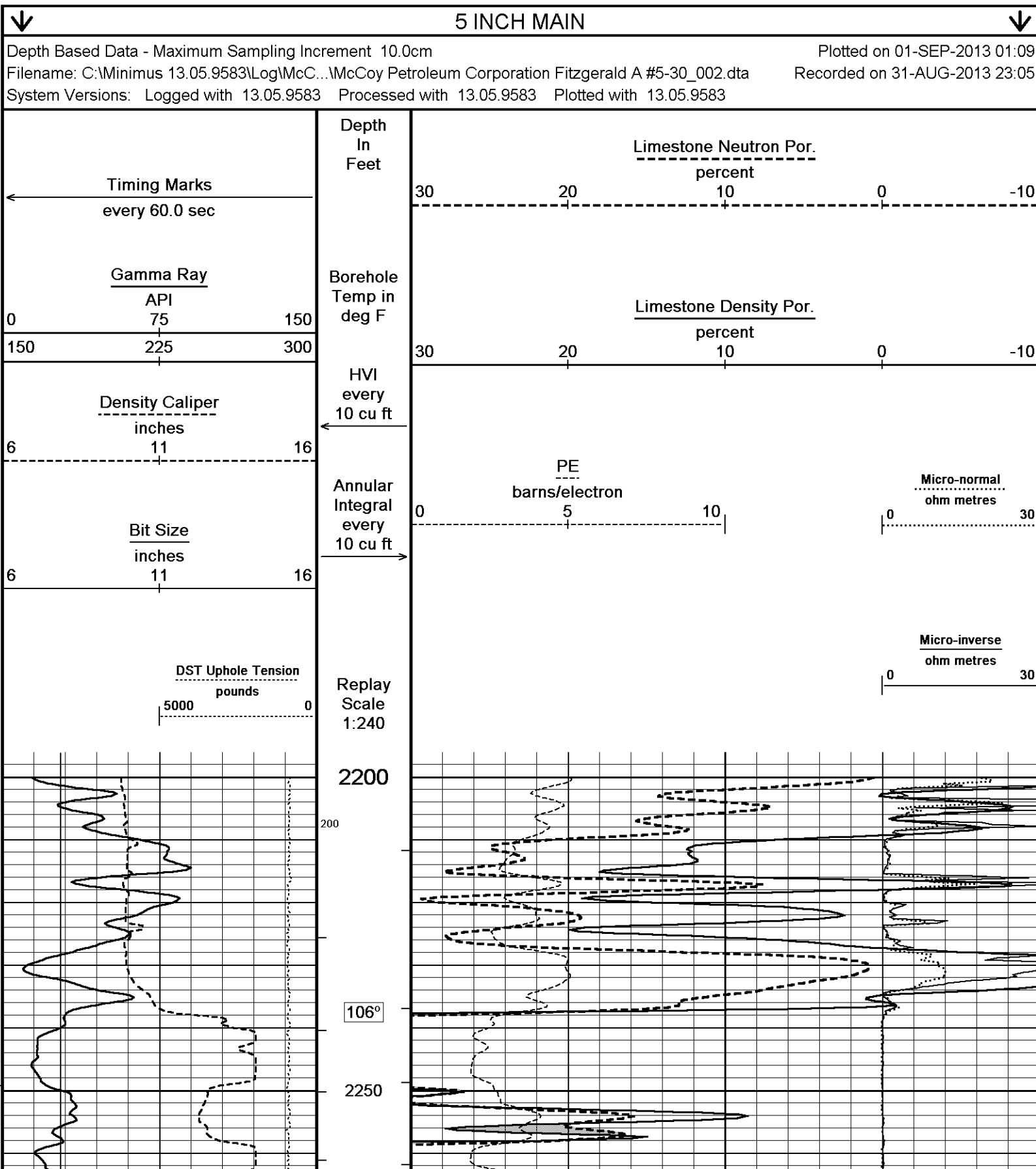
BOREHOLE RECORD			Last Edited: 31-AUG-2013 21:15	
Bit Size inches	Depth From feet		Depth To feet	
7.880	1821.00		5700.00	
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1821.00	24.00

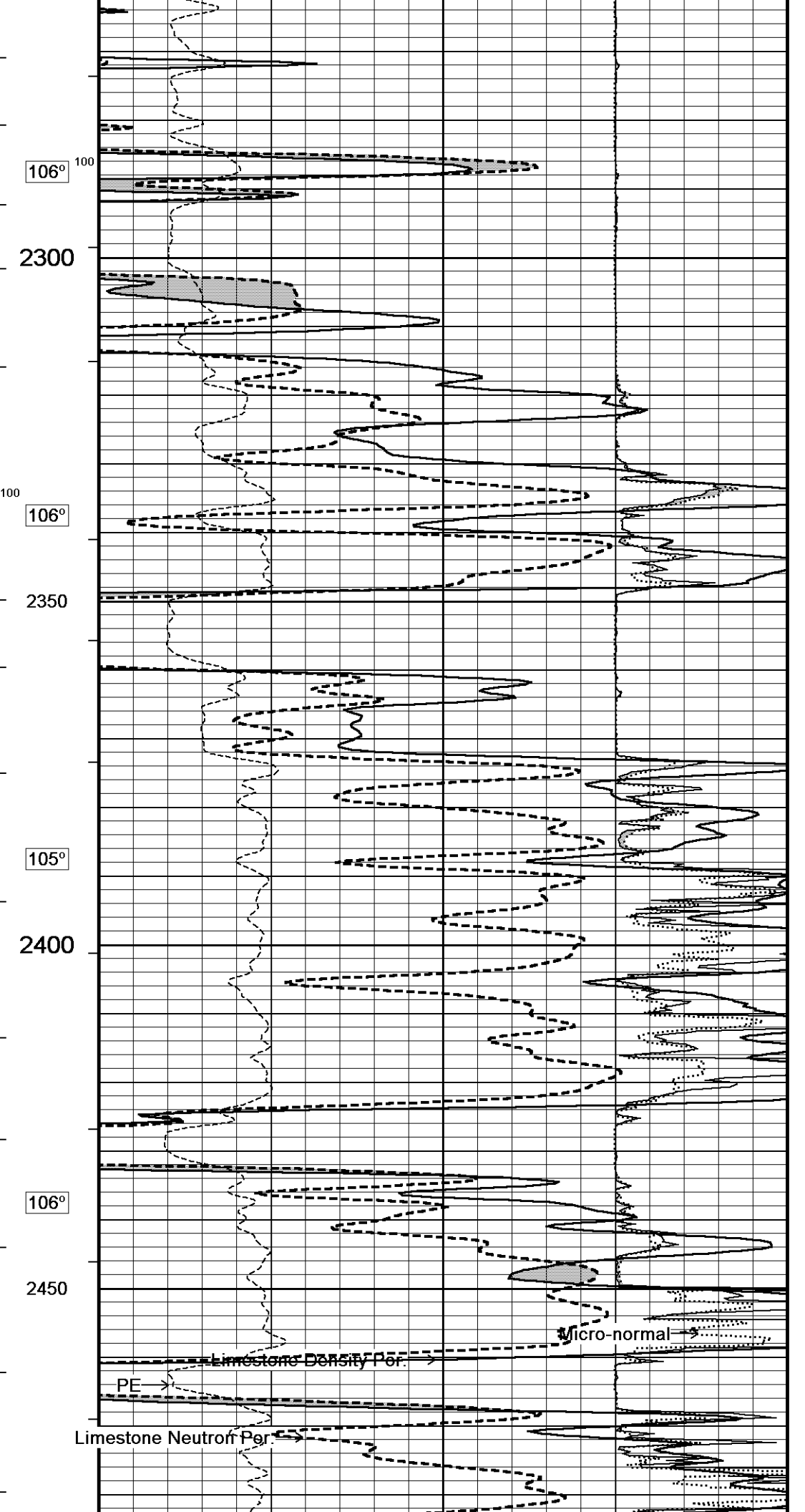
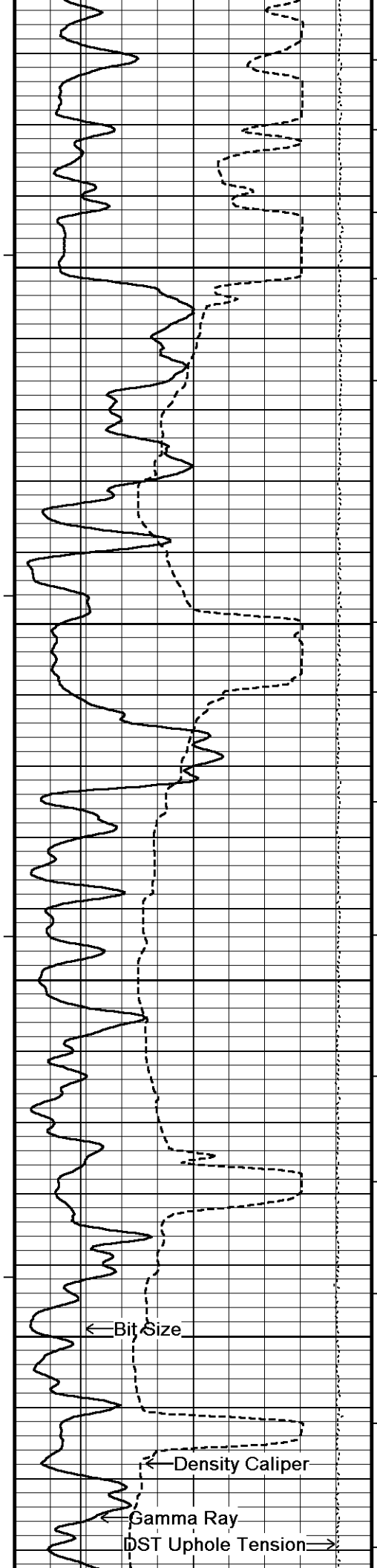
REMARKS
- SOFTWARE ISSUE: WLS 13.05.9583
MCG, MML, MDN, MPD, MFE, MAI RUN IN COMBINATION
- HARDWARE: DUAL BOWSPRING USED ON MDN
0.5 INCH STANDOFFS USED ON MAI and MFE
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1590 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 4000 FEET: 320 CU.FT.
- RIG: STERLING DRILLING CO. RIG #2

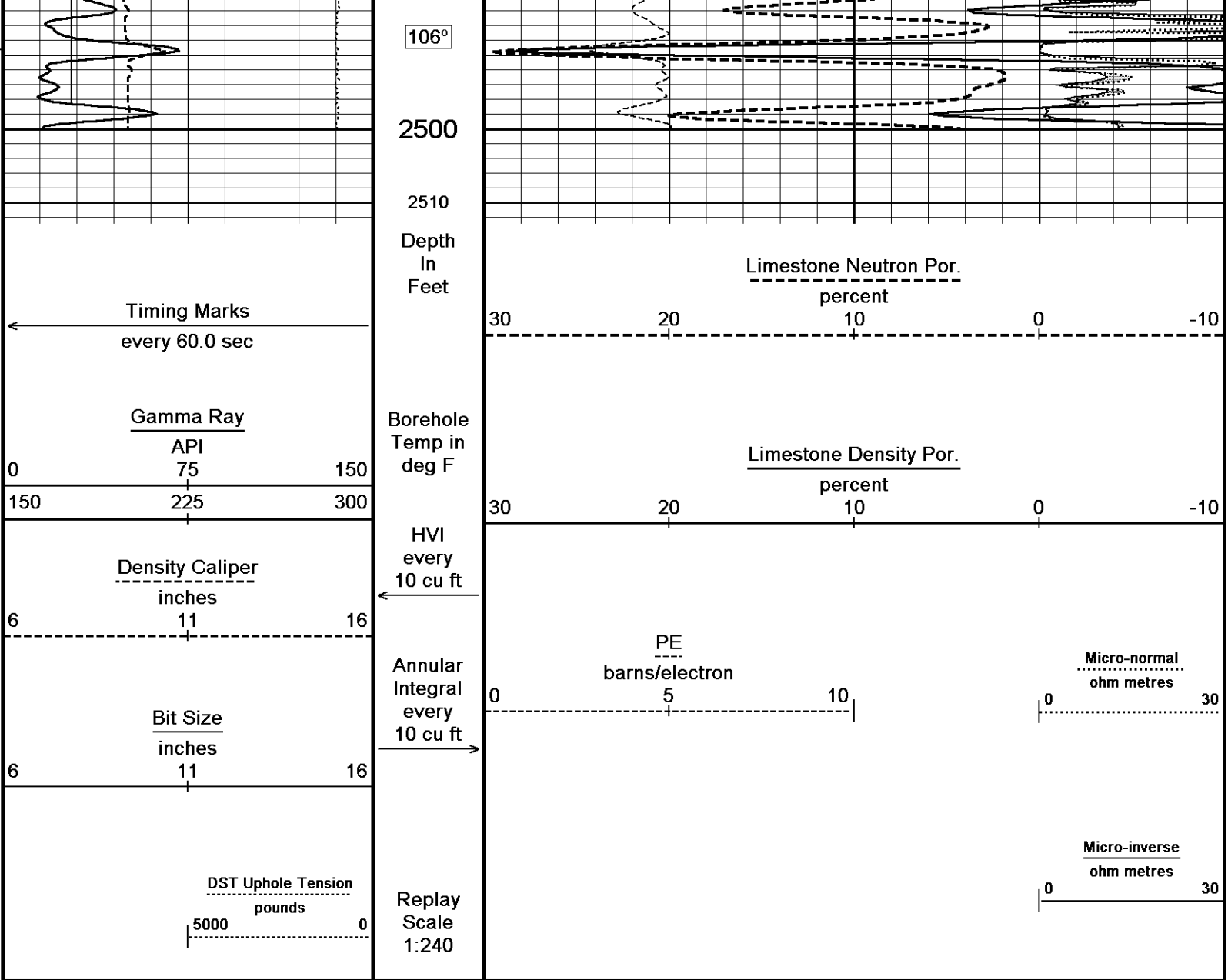
- ENGINEER: W. STAMBAUGH

- OPERATOR: K. RINEHART

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.







Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 01-SEP-2013 01:09

Filename: C:\Minimus 13.05.9583\Log\McC...McCoy Petroleum Corporation Fitzgerald A #5-30_002.dta

Recorded on 31-AUG-2013 23:05

System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

↑

5 INCH MAIN

↑

↓

5 INCH MAIN

↓

Depth Based Data - Maximum Sampling Increment 10.0cm

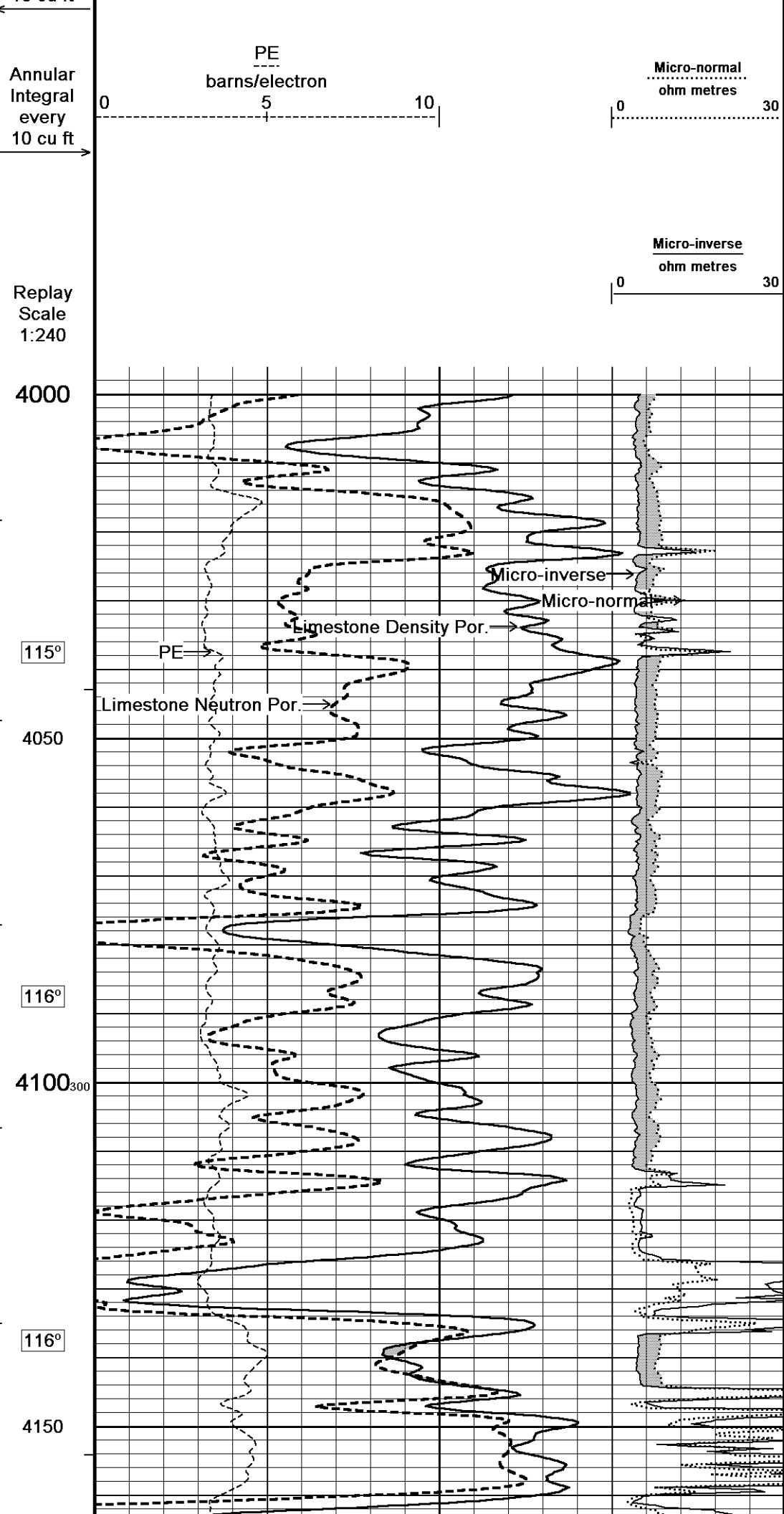
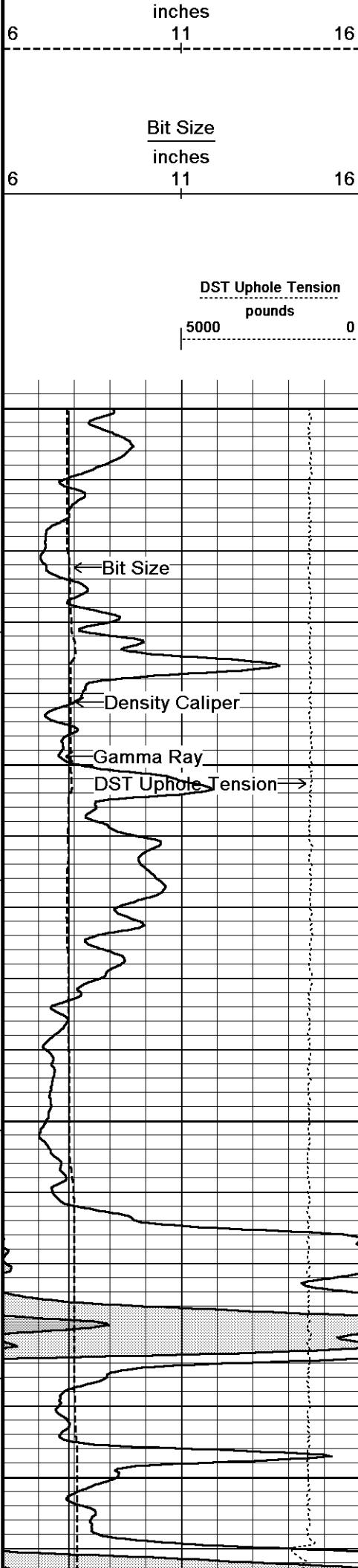
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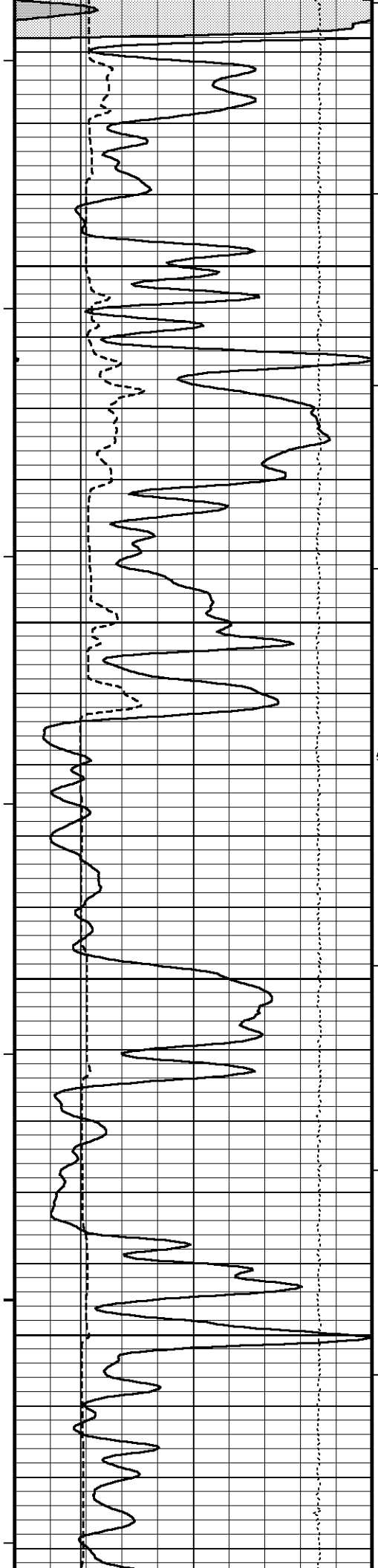
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Recorded on 31-AUG-2013 23:05

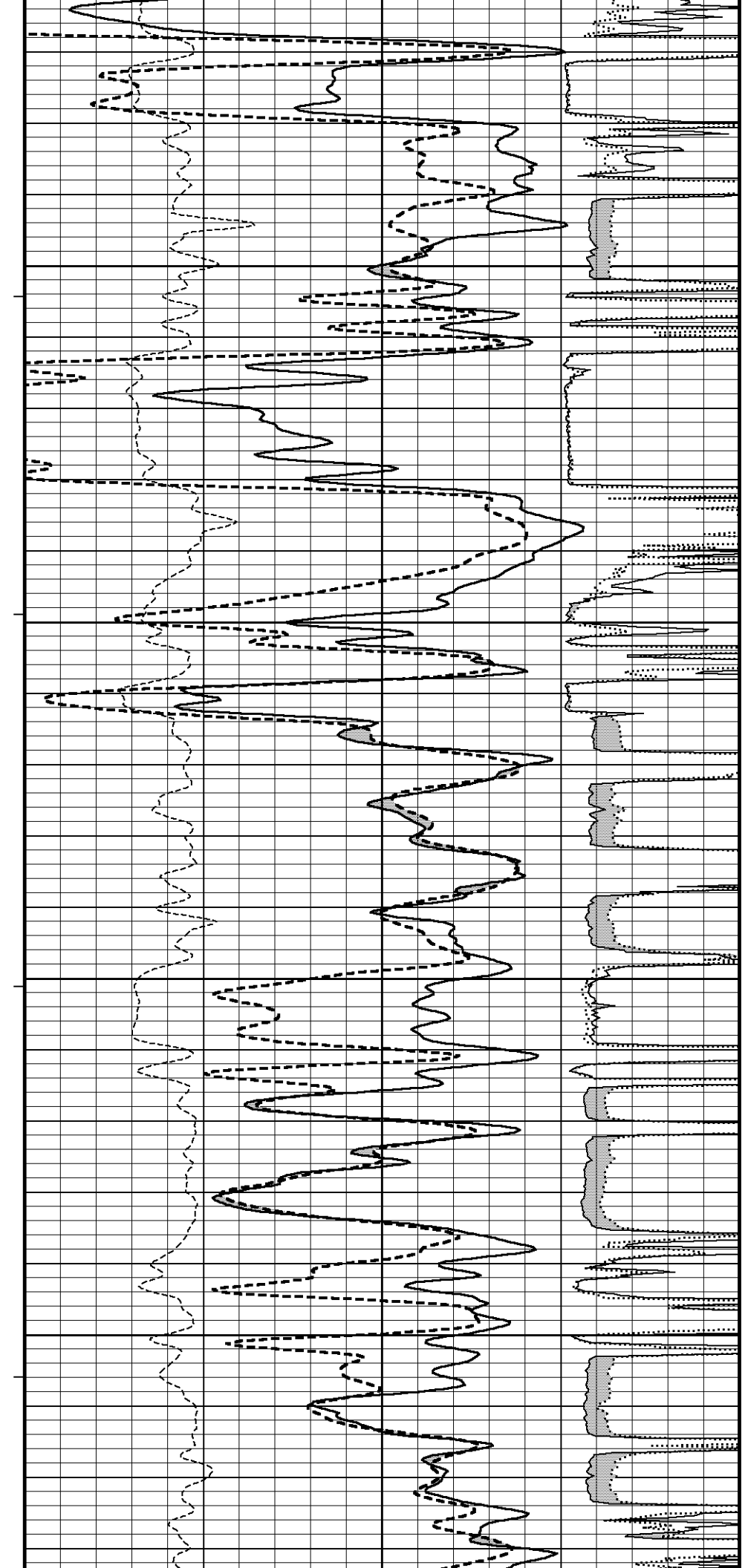
System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

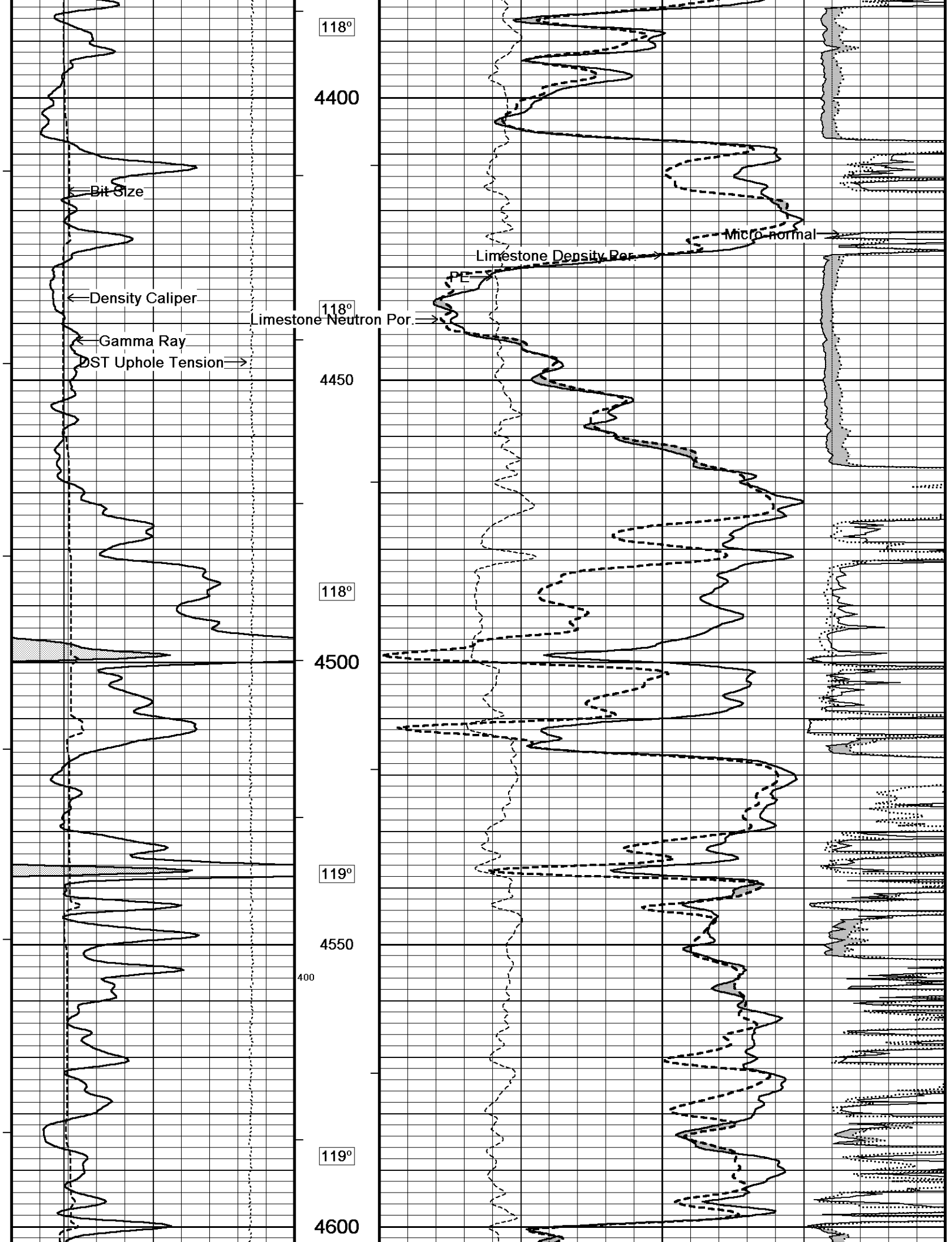


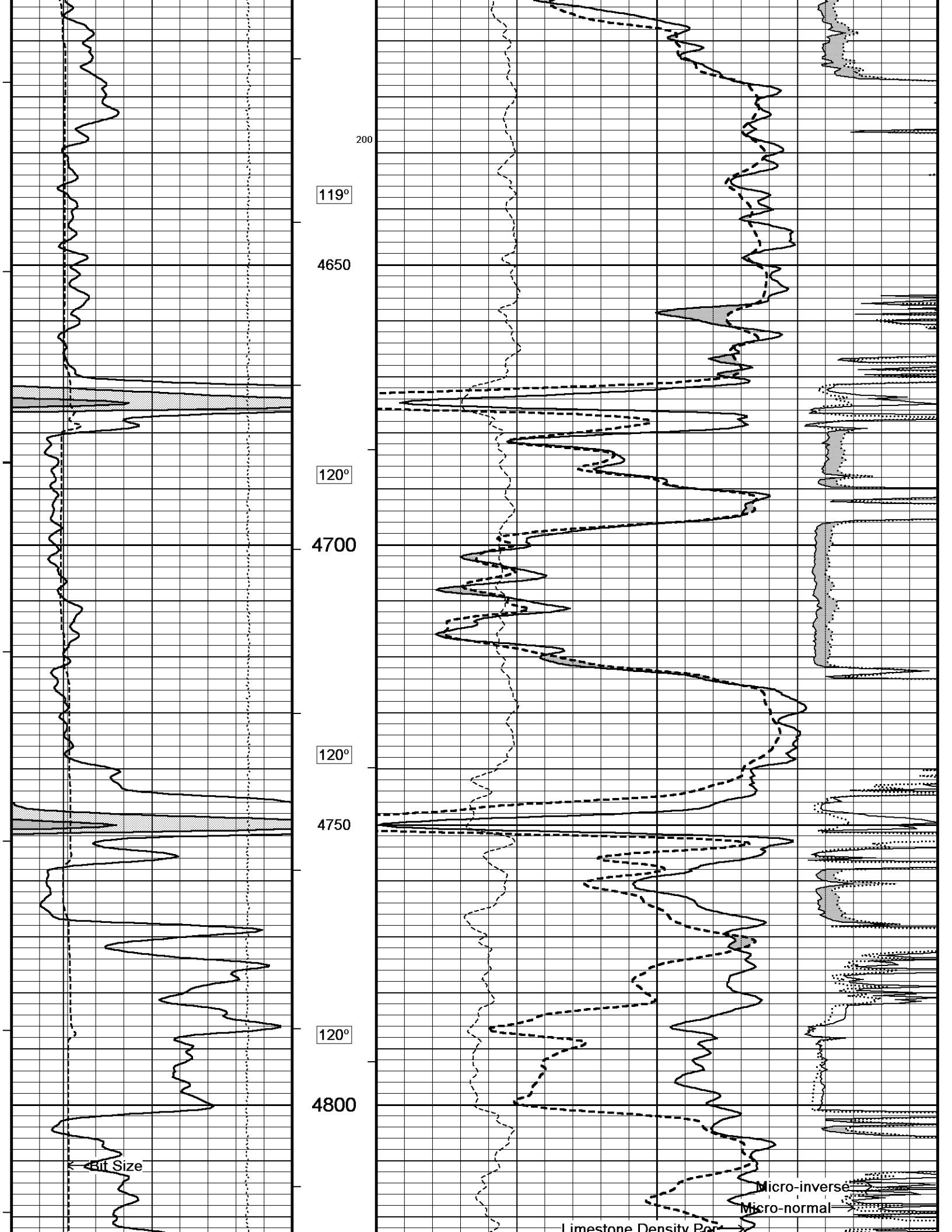


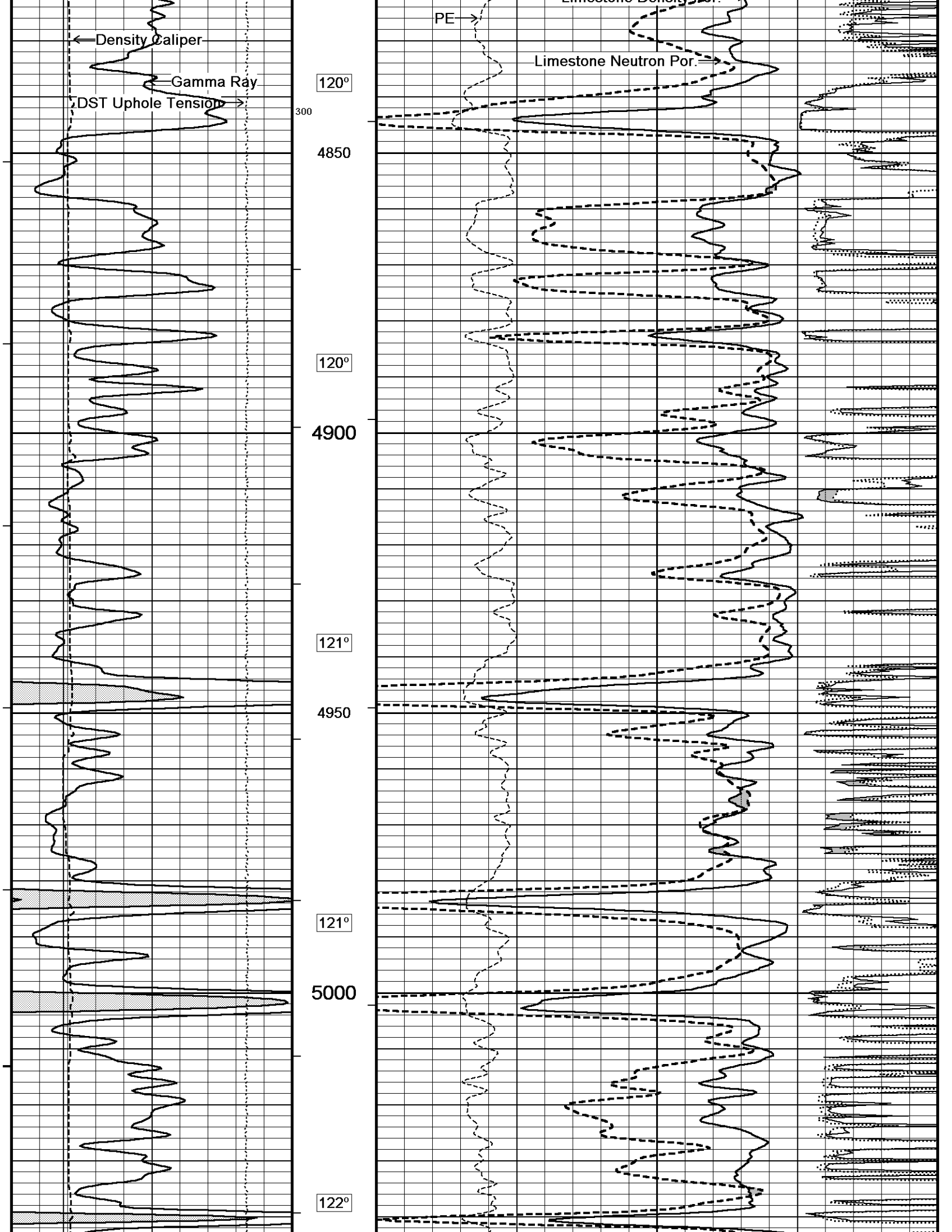


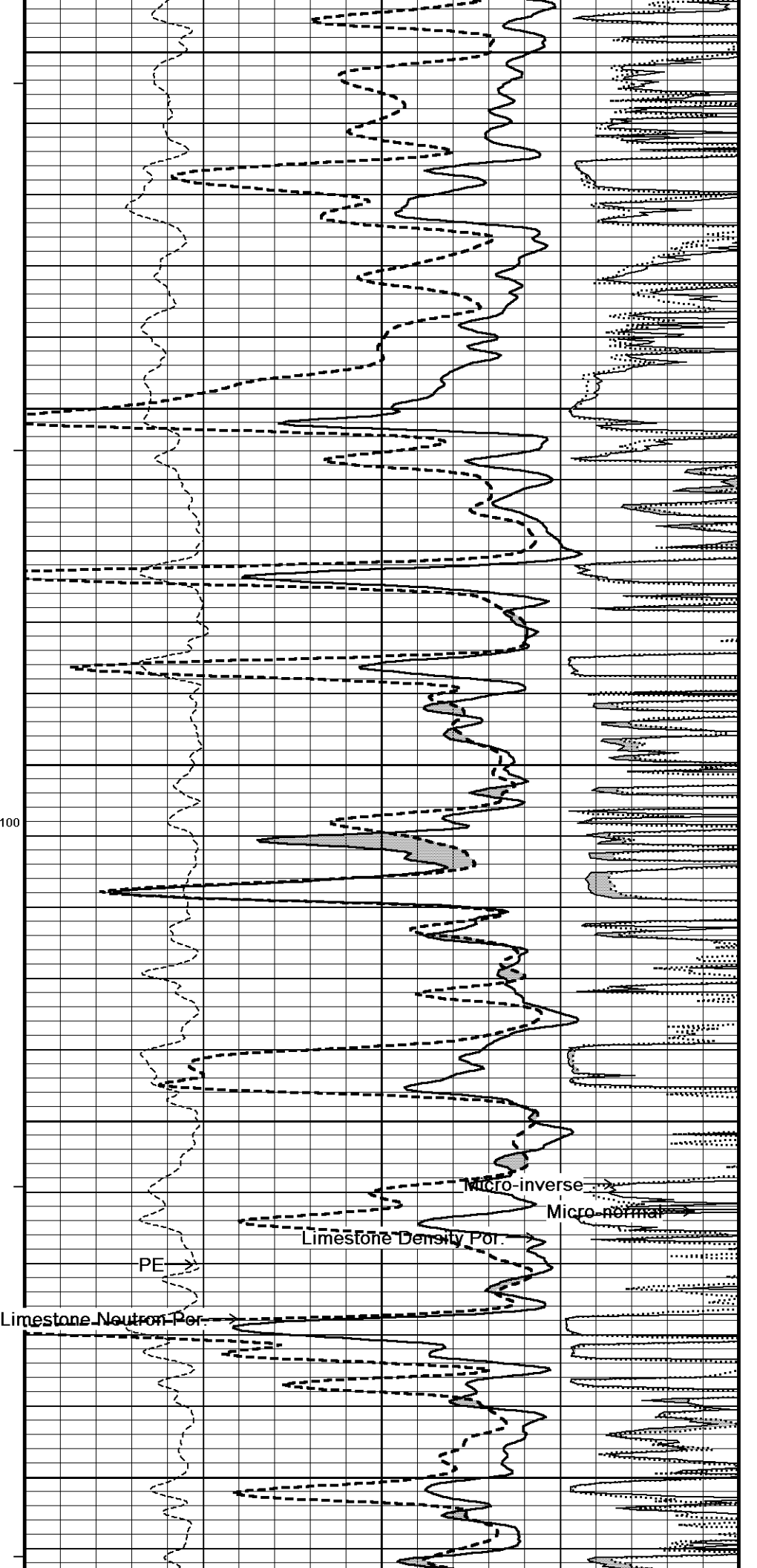
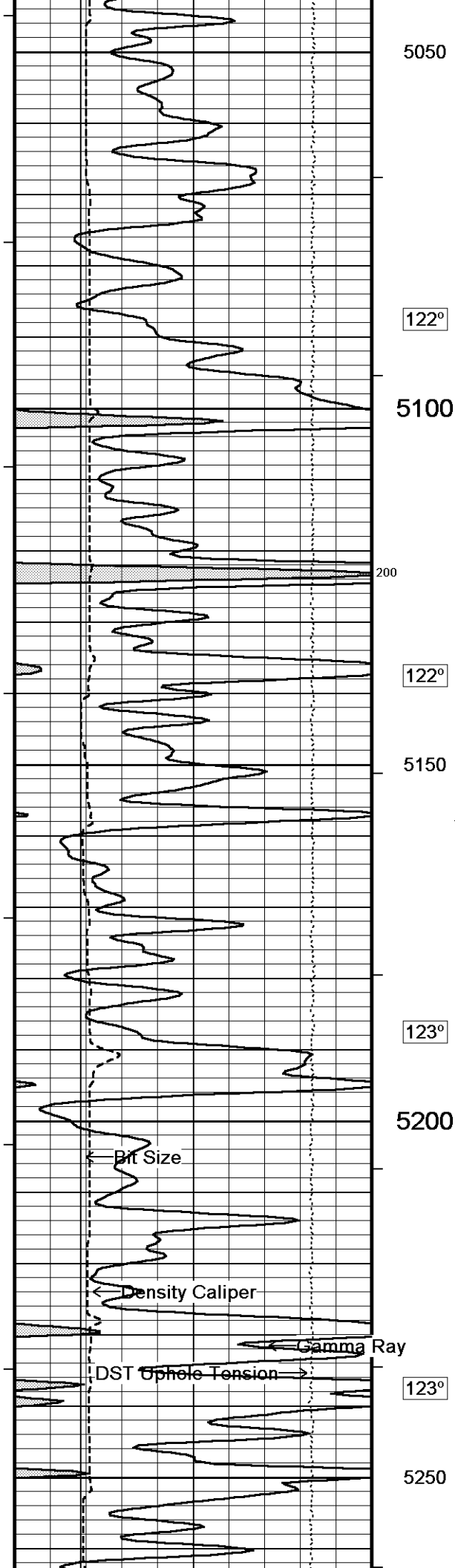
116°
4200
117°
4250
500
117°
4300
117°
4350

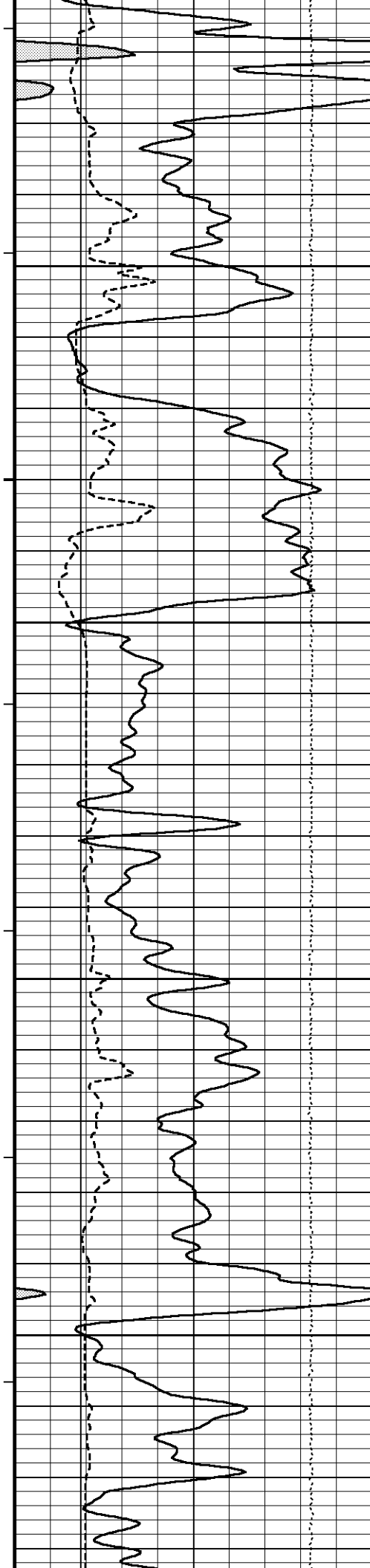




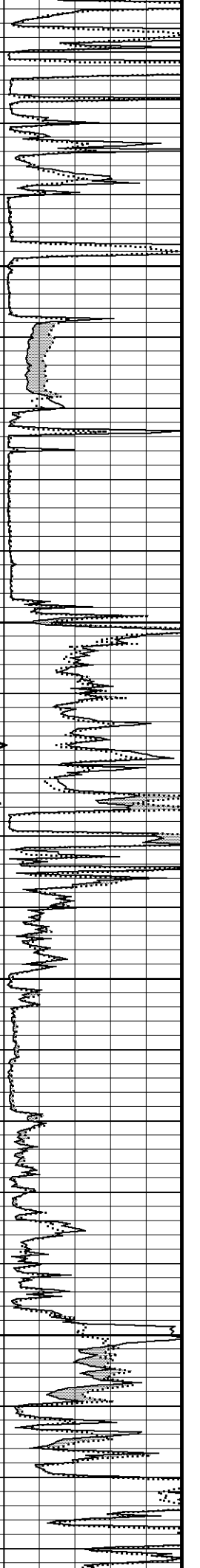
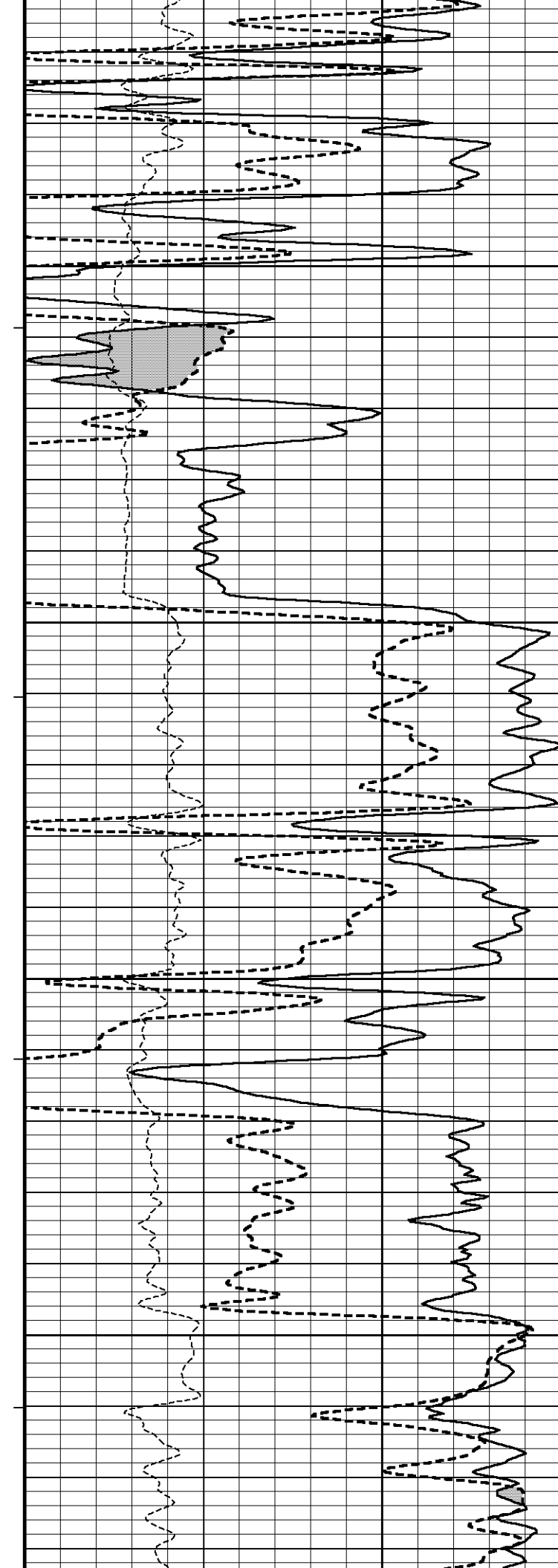


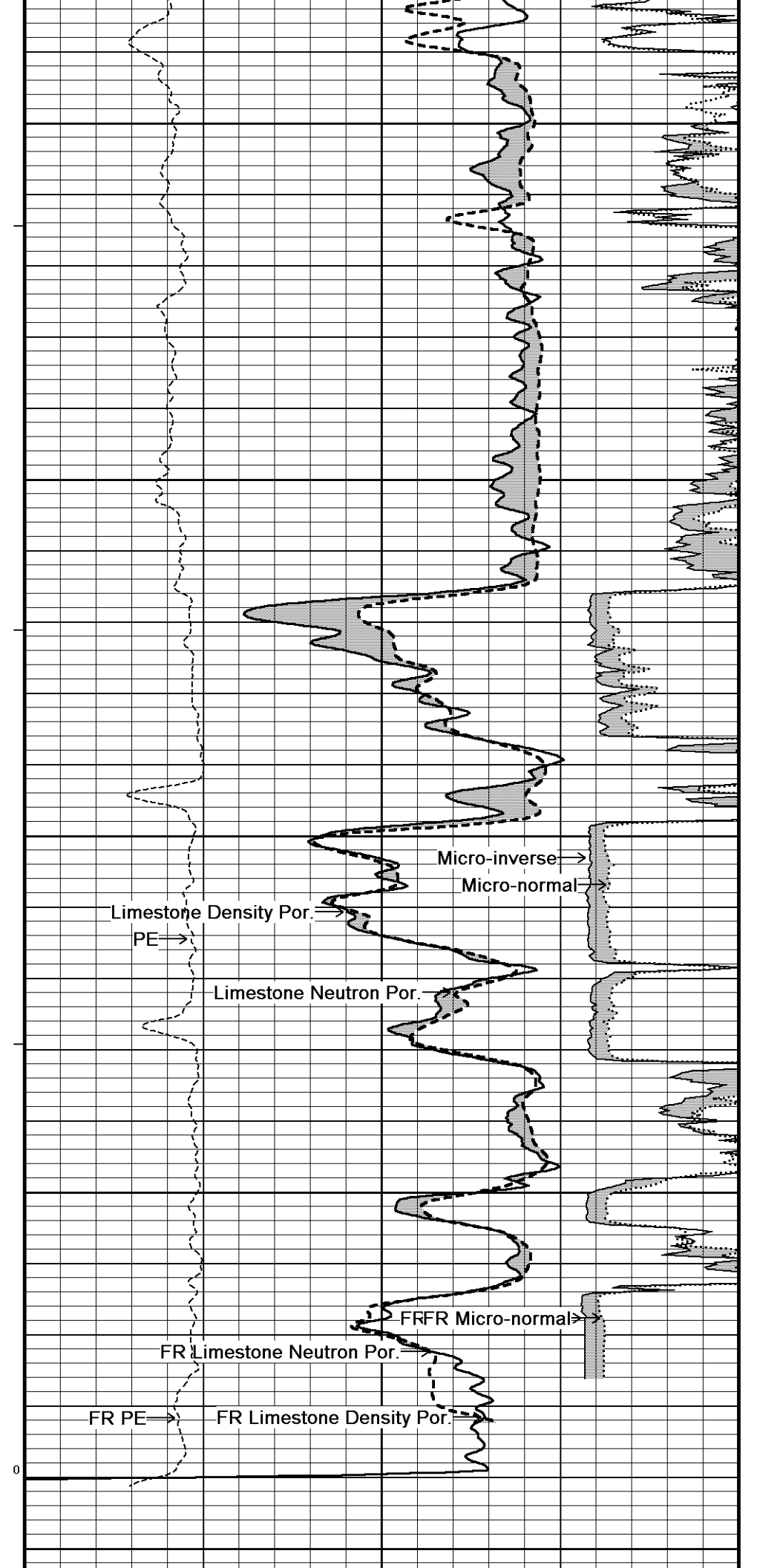
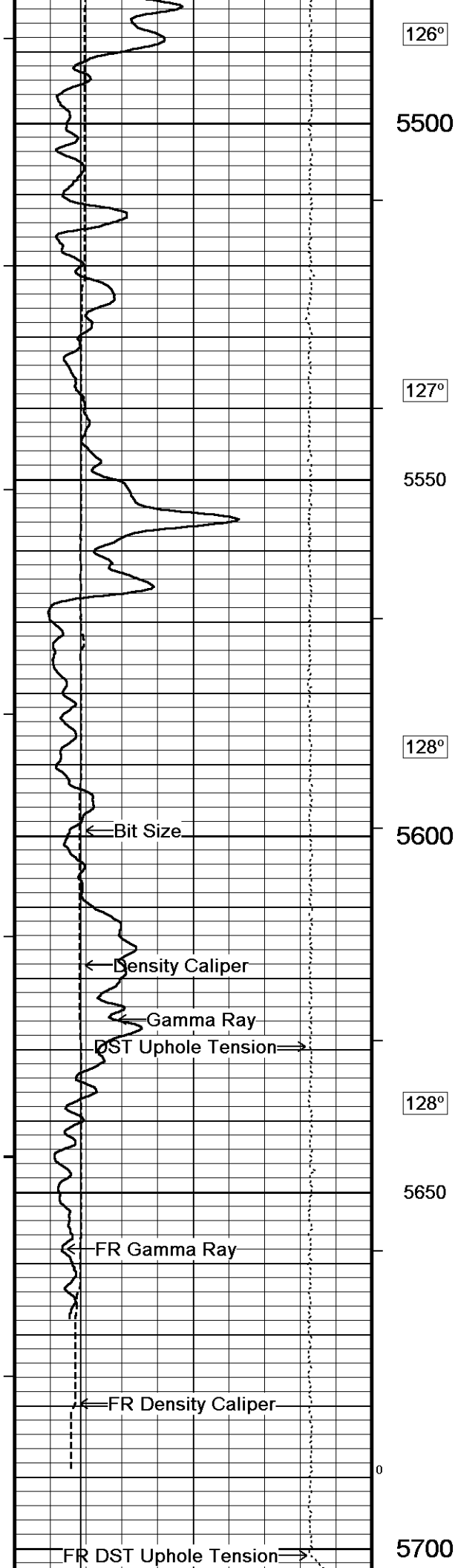


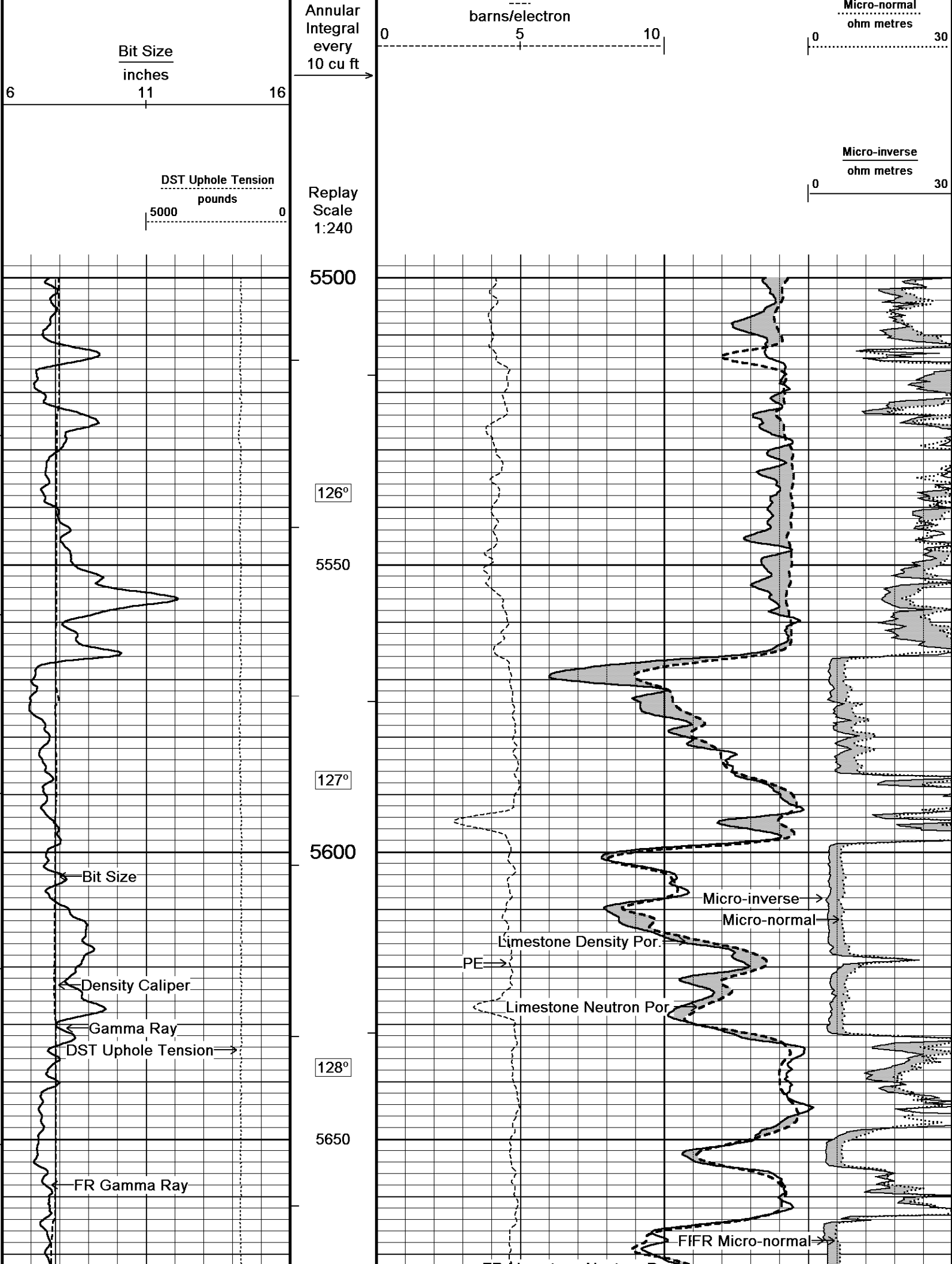


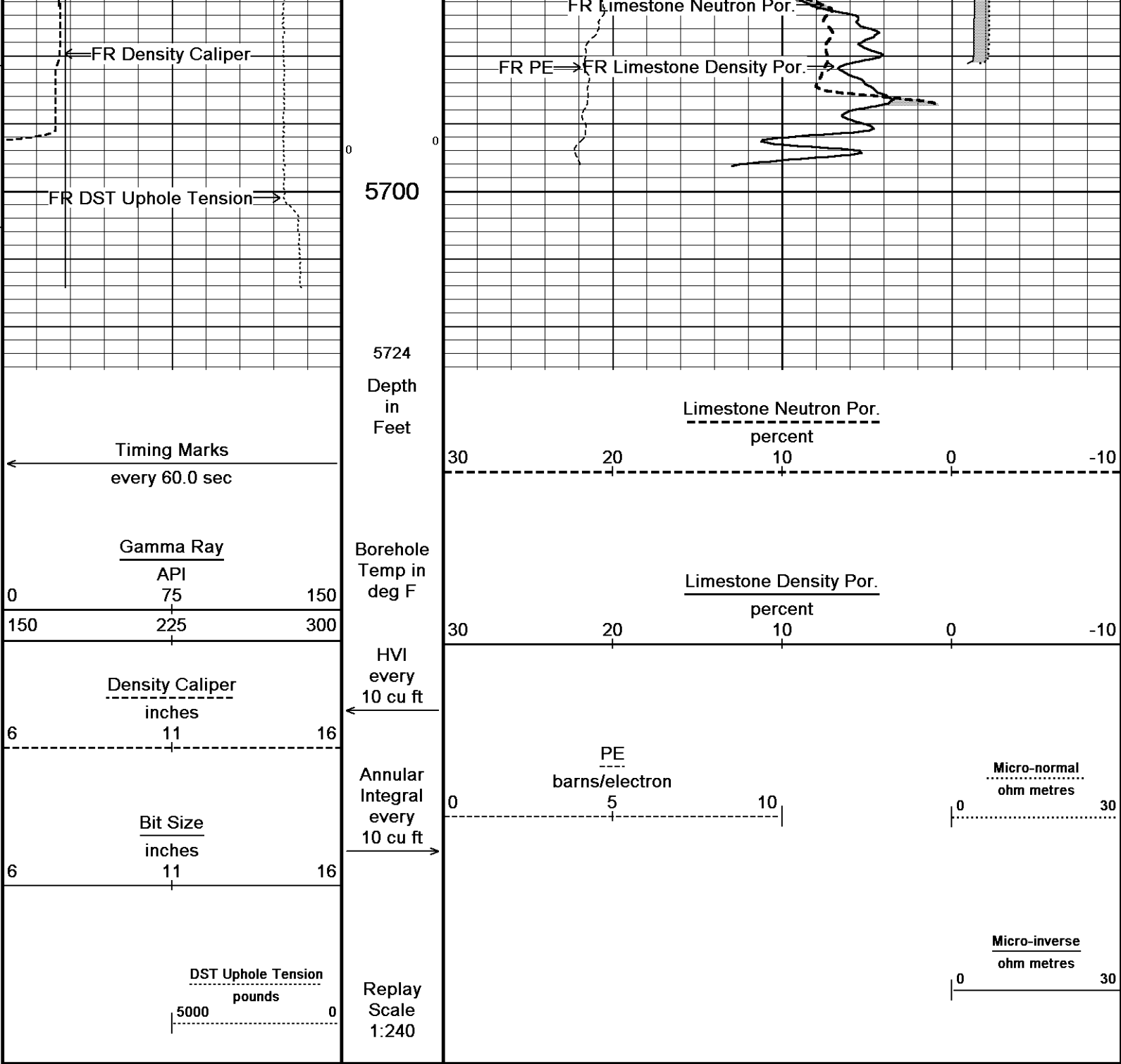


123°
5300
124°
5350
124°
5400
100
126°
5450









Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 01-SEP-2013 01:09

Filename: C:\Minimus 13.05.9583\Log\McC...McCoy Petroleum Corporation Fitzgerald A #5-30_001.dta

Recorded on 31-AUG-2013 22:45

System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

↑ REPEAT SECTION ↑

↓ 5 INCH MAIN ↓

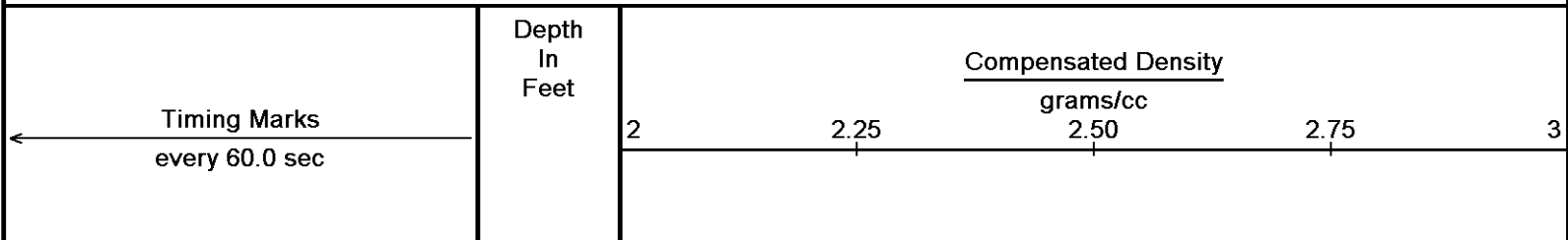
Depth Based Data - Maximum Sampling Increment 10.0cm

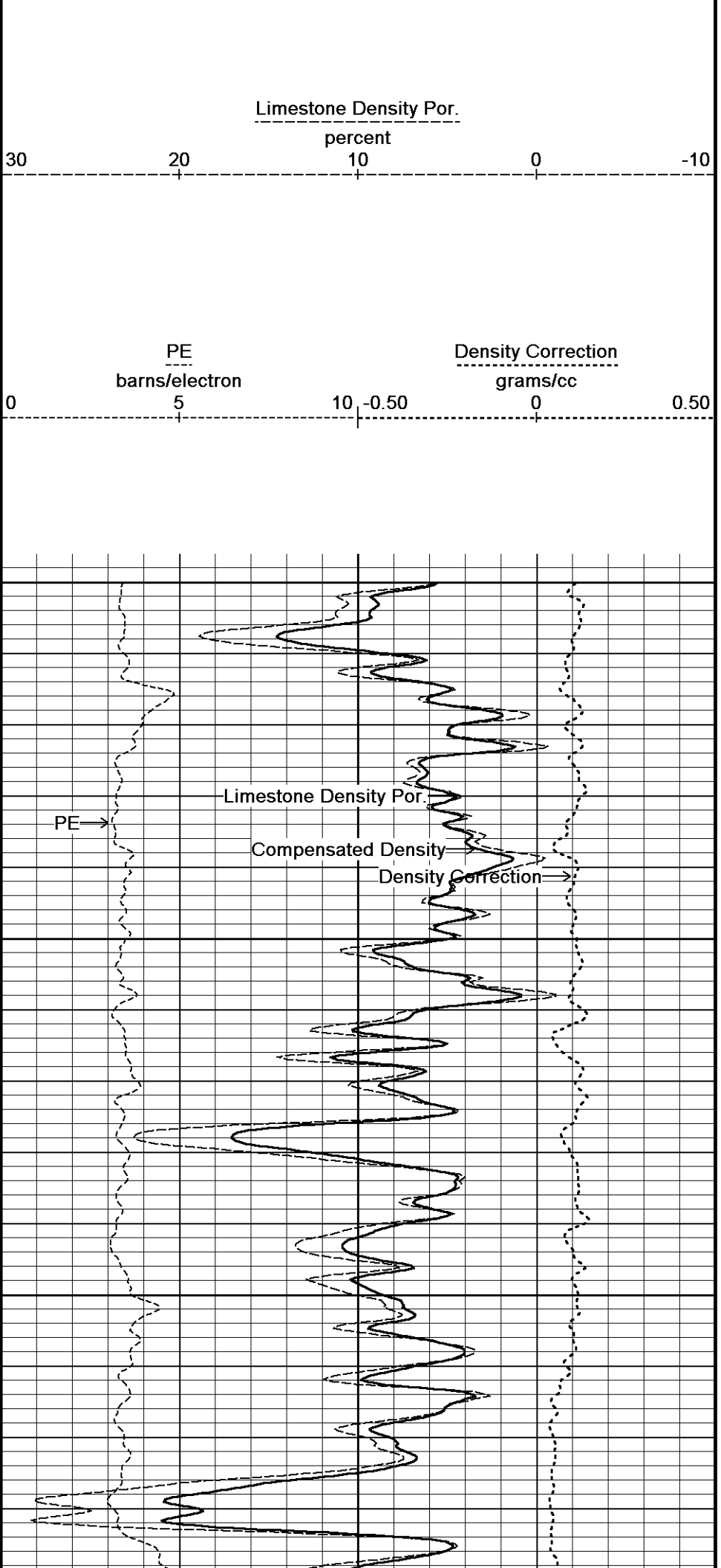
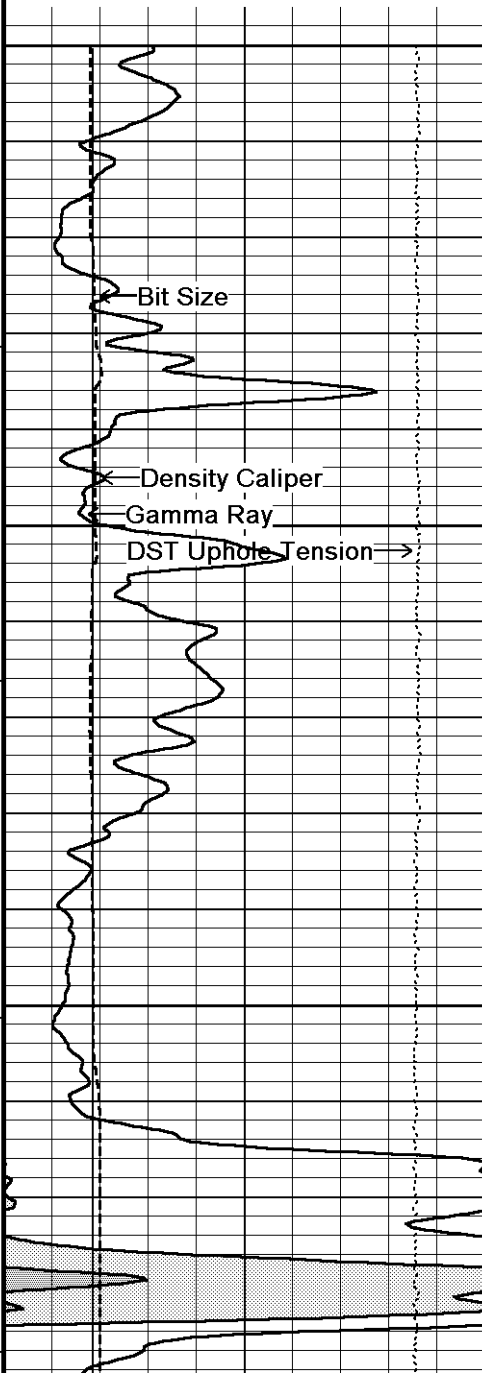
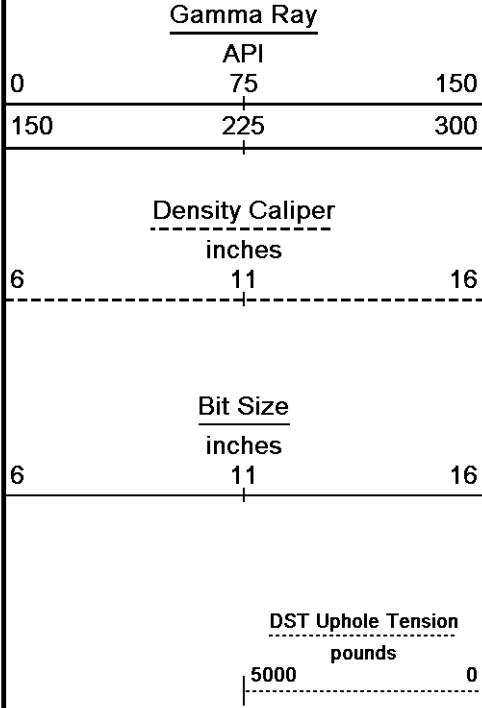
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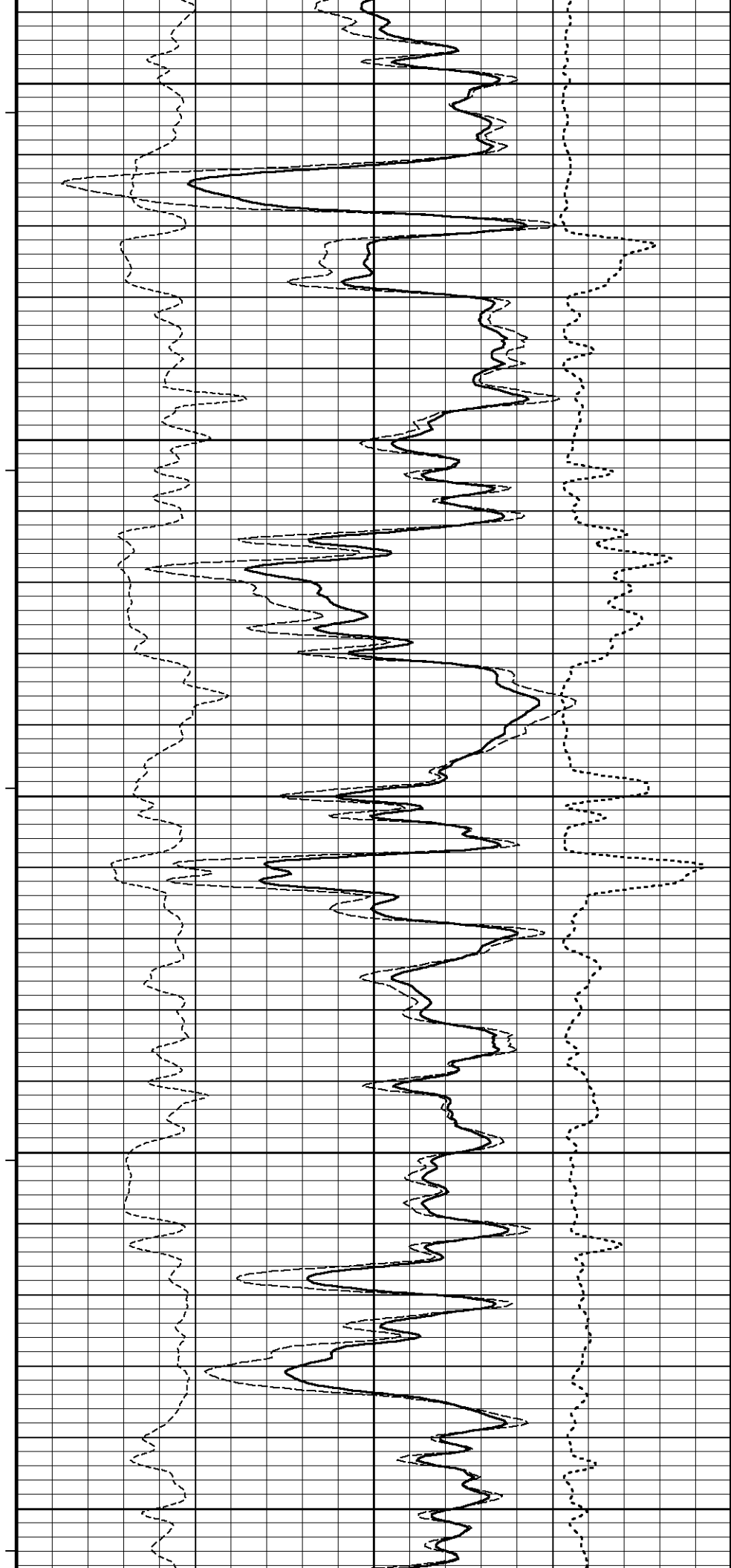
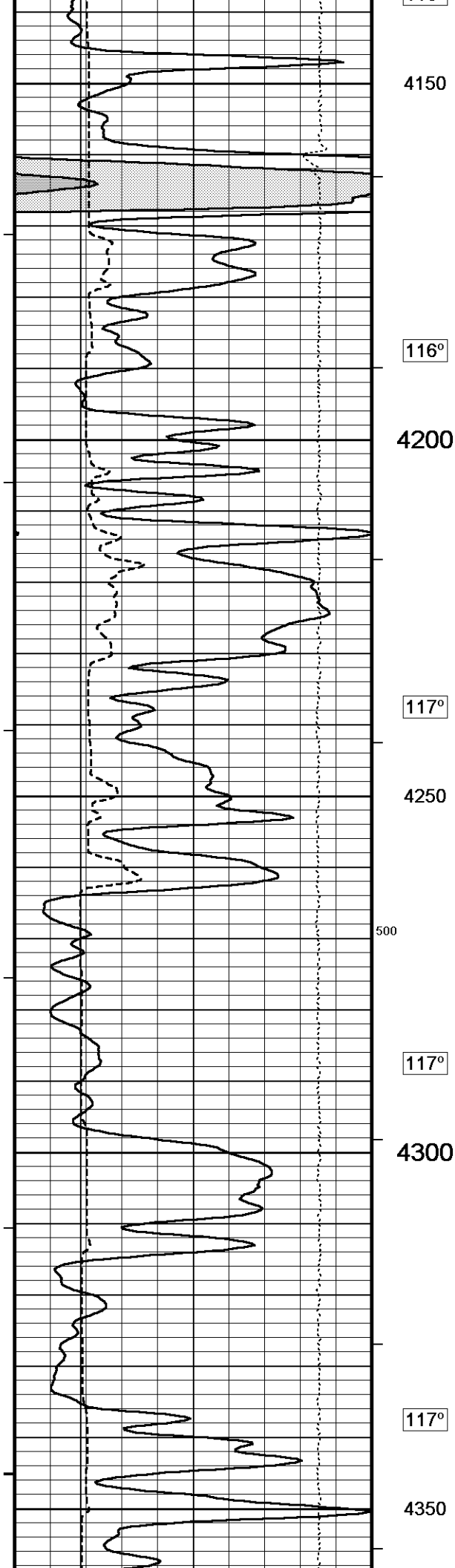
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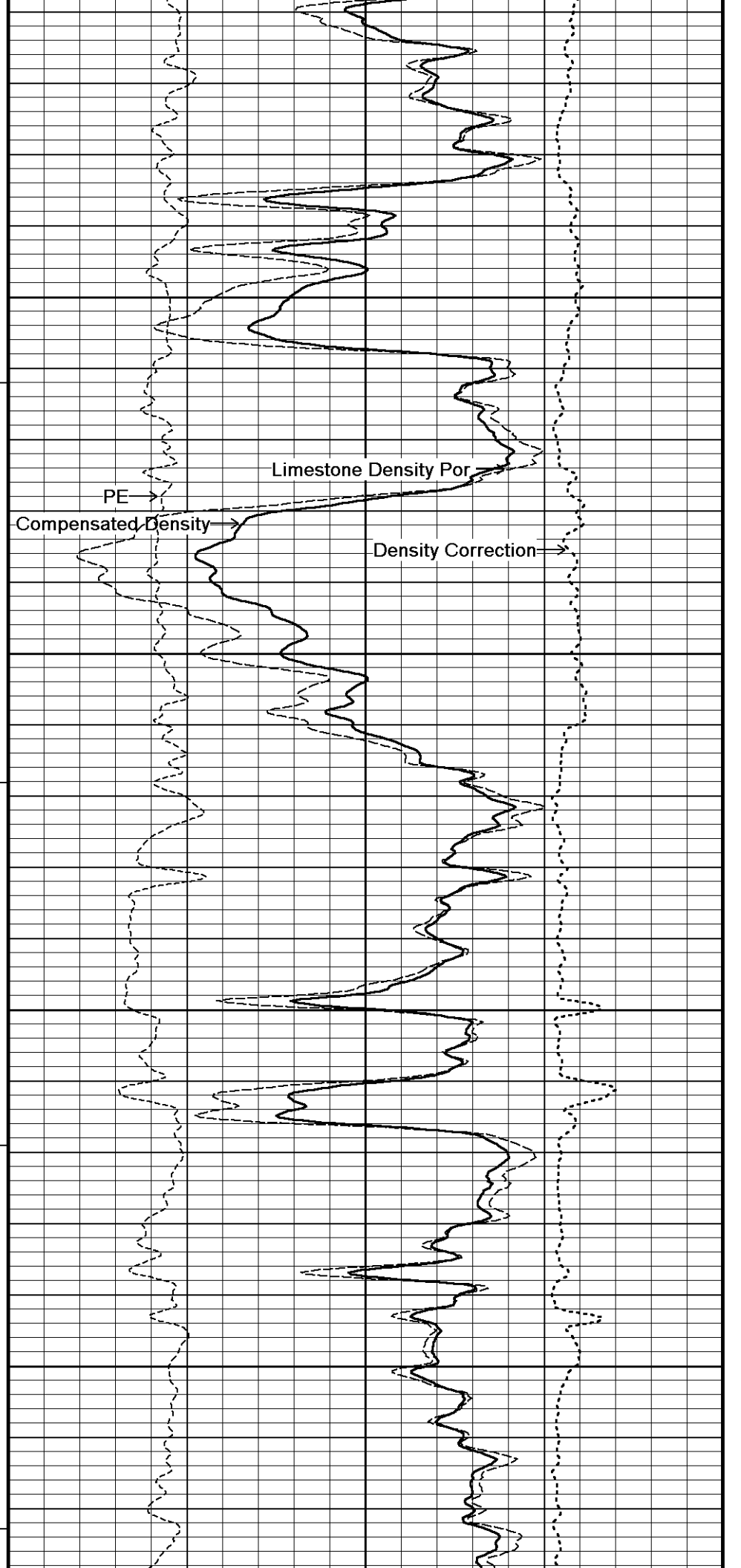
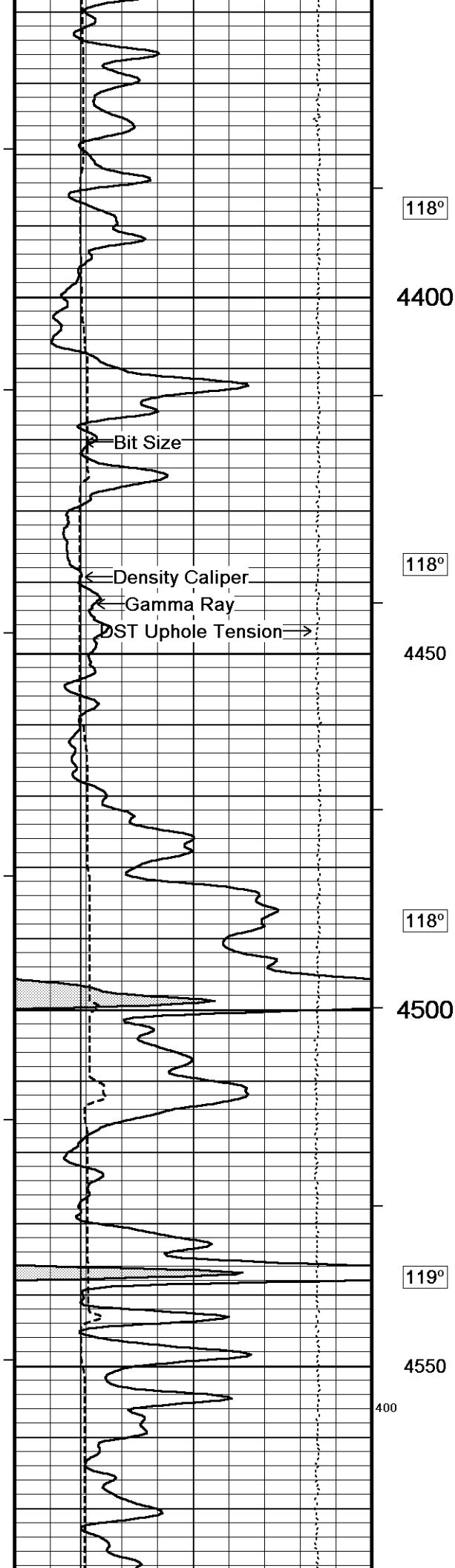
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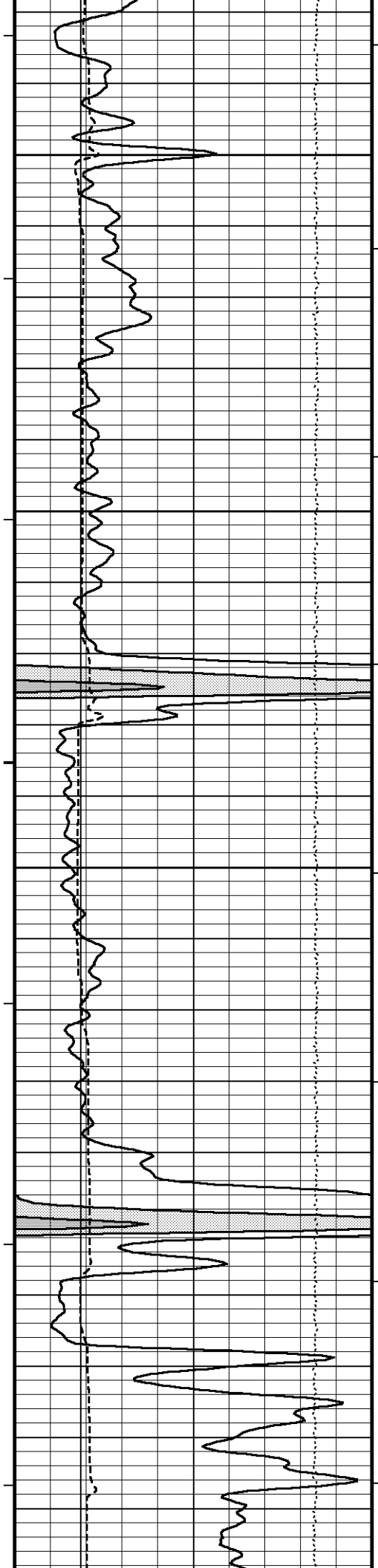
System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583











119°

4600

200

119°

4650

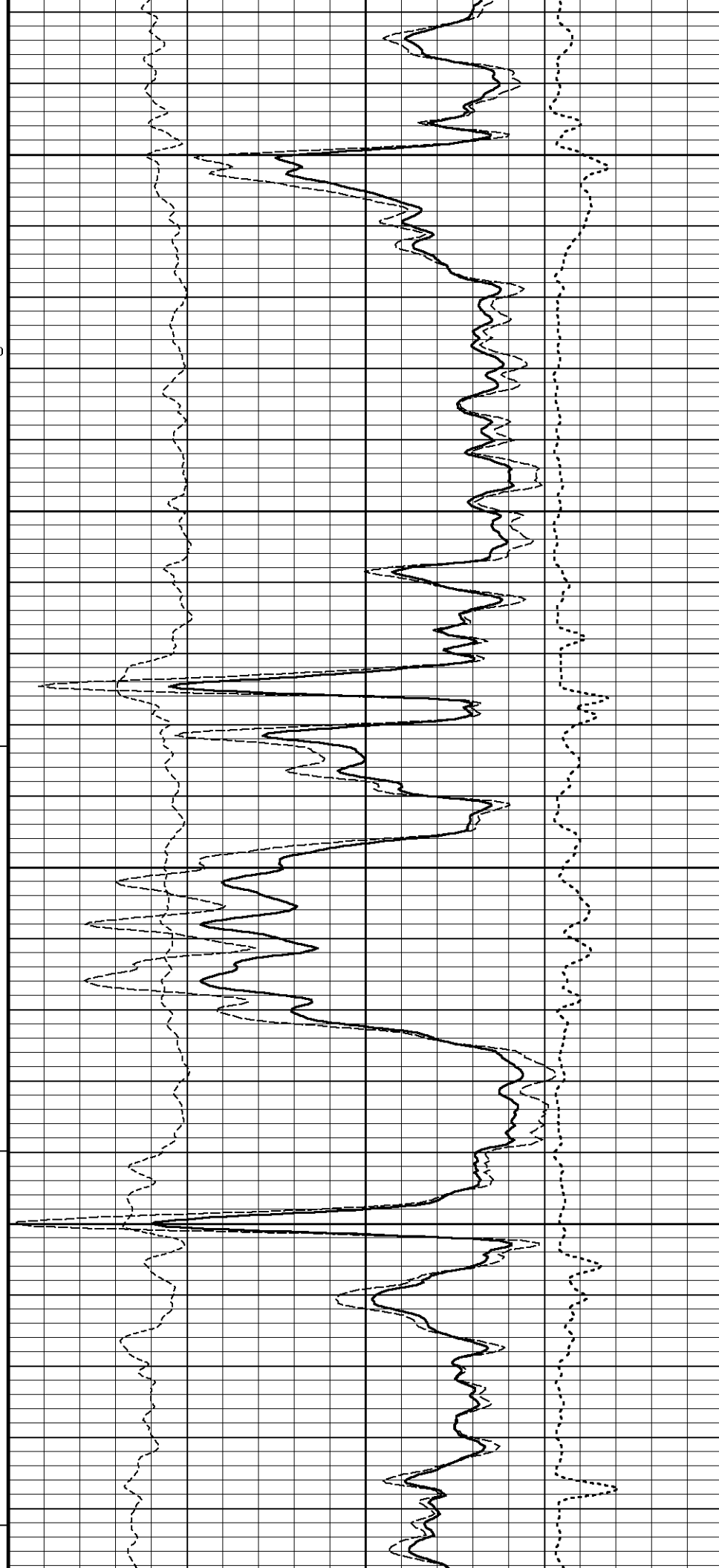
120°

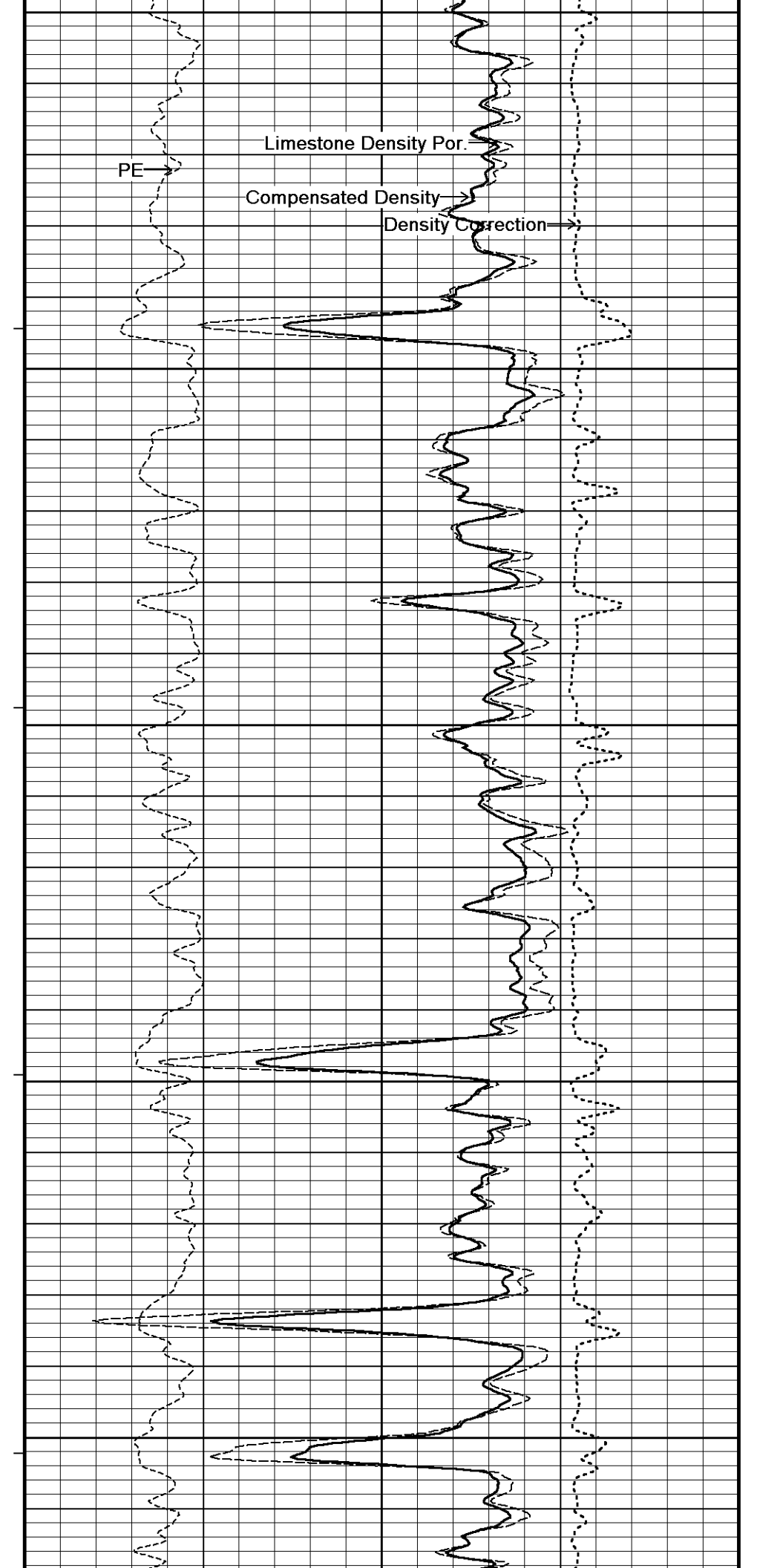
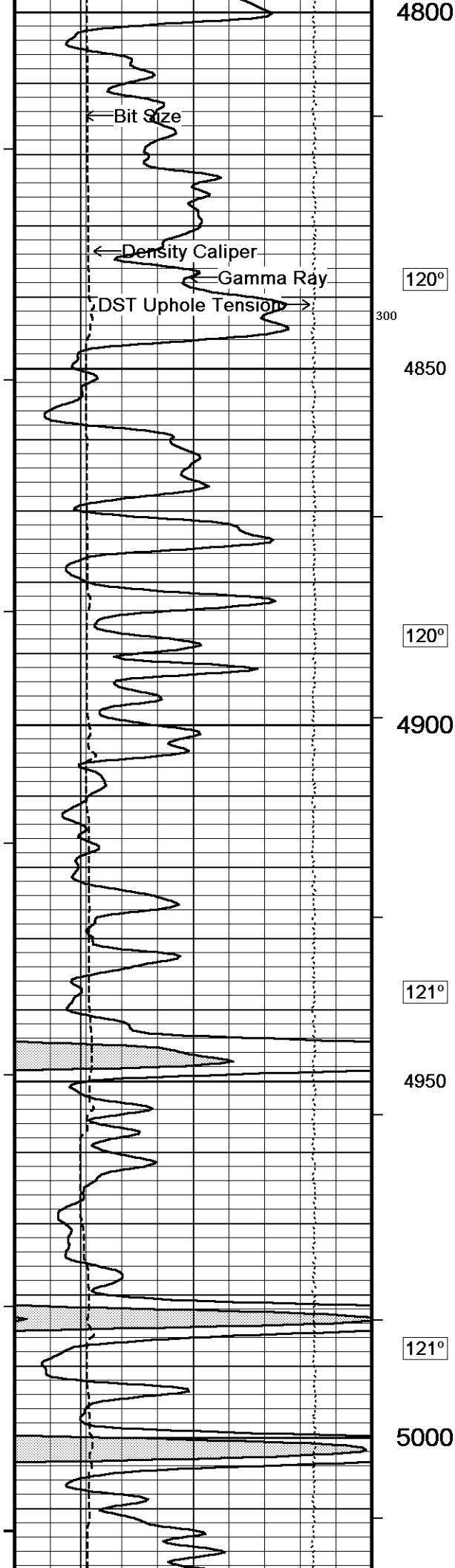
4700

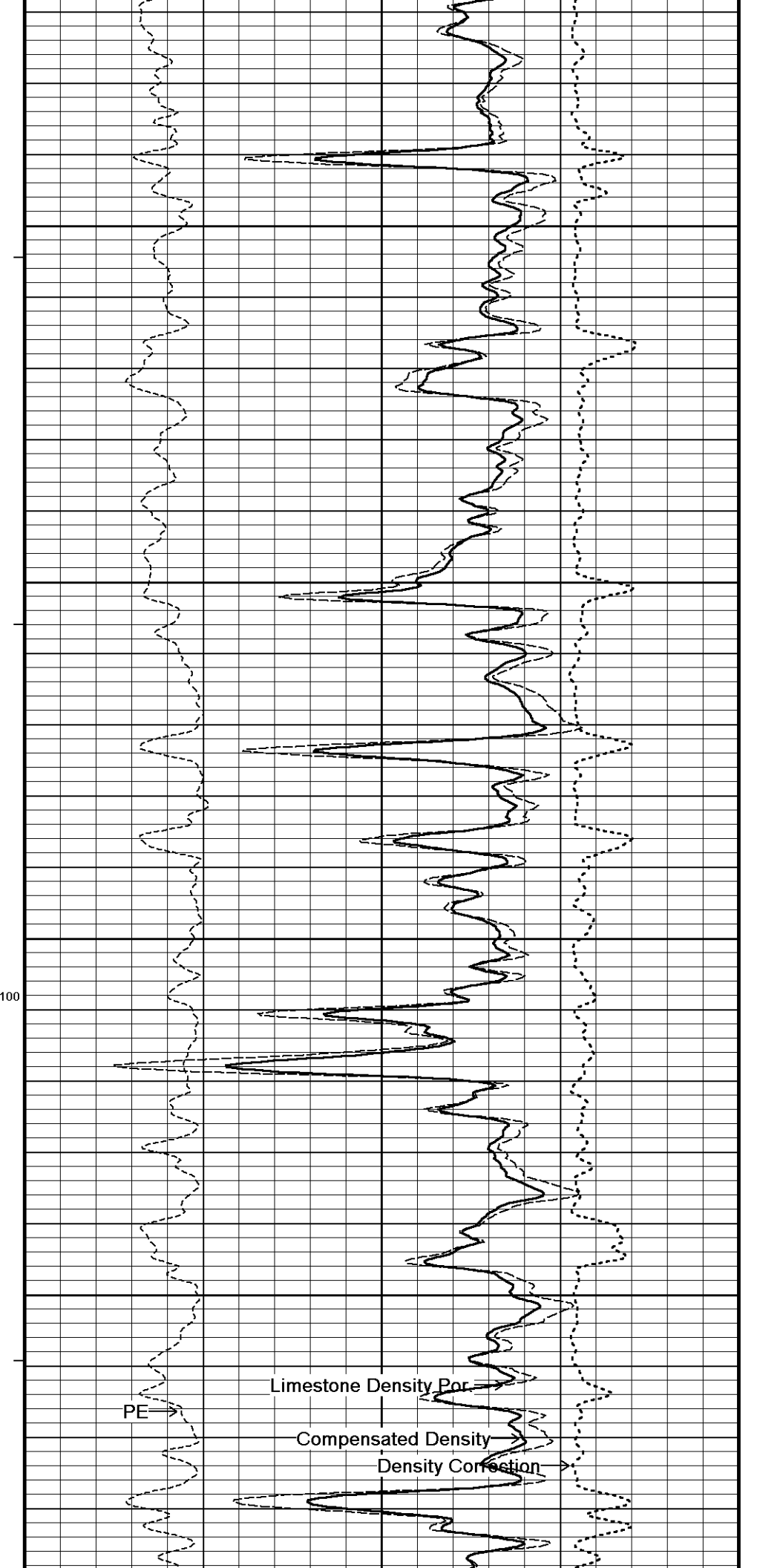
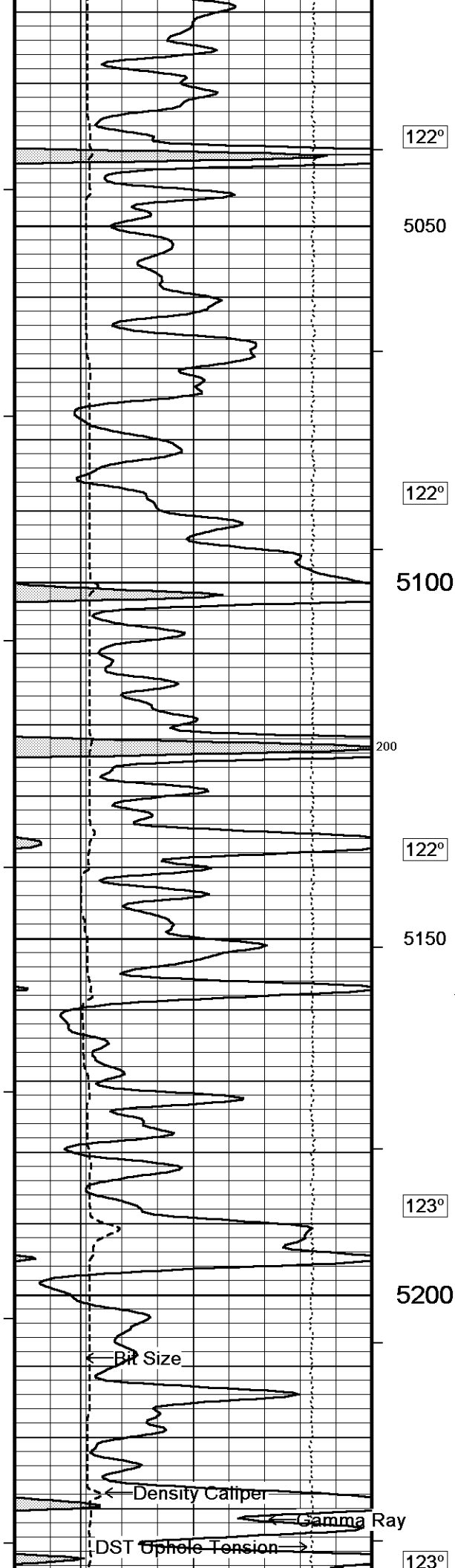
120°

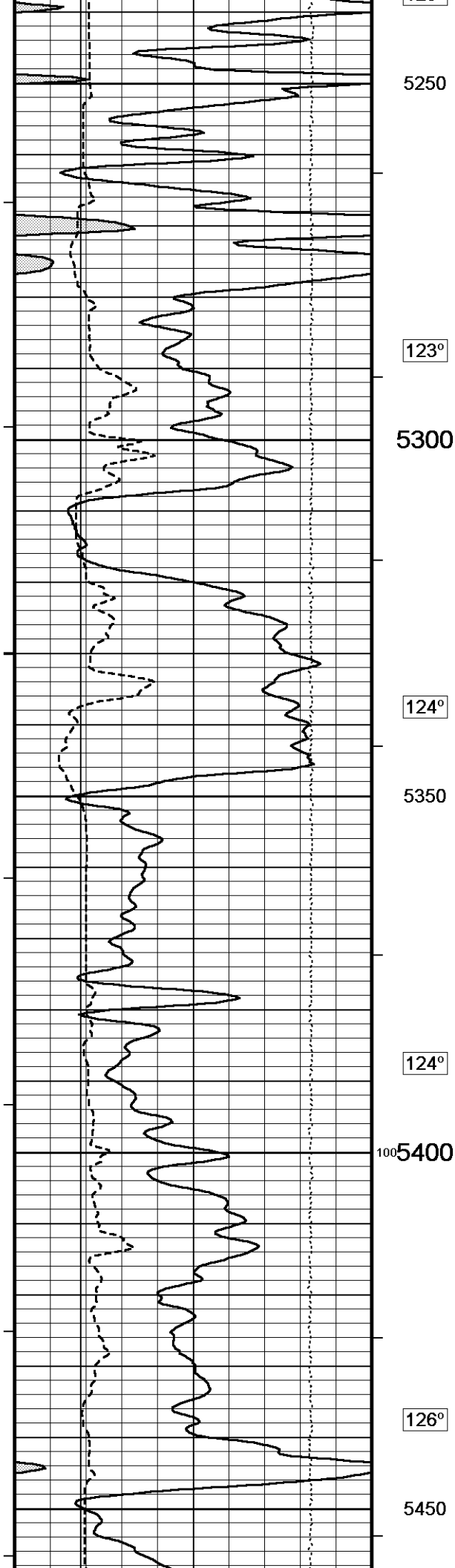
4750

120°









5250

123°

5300

124°

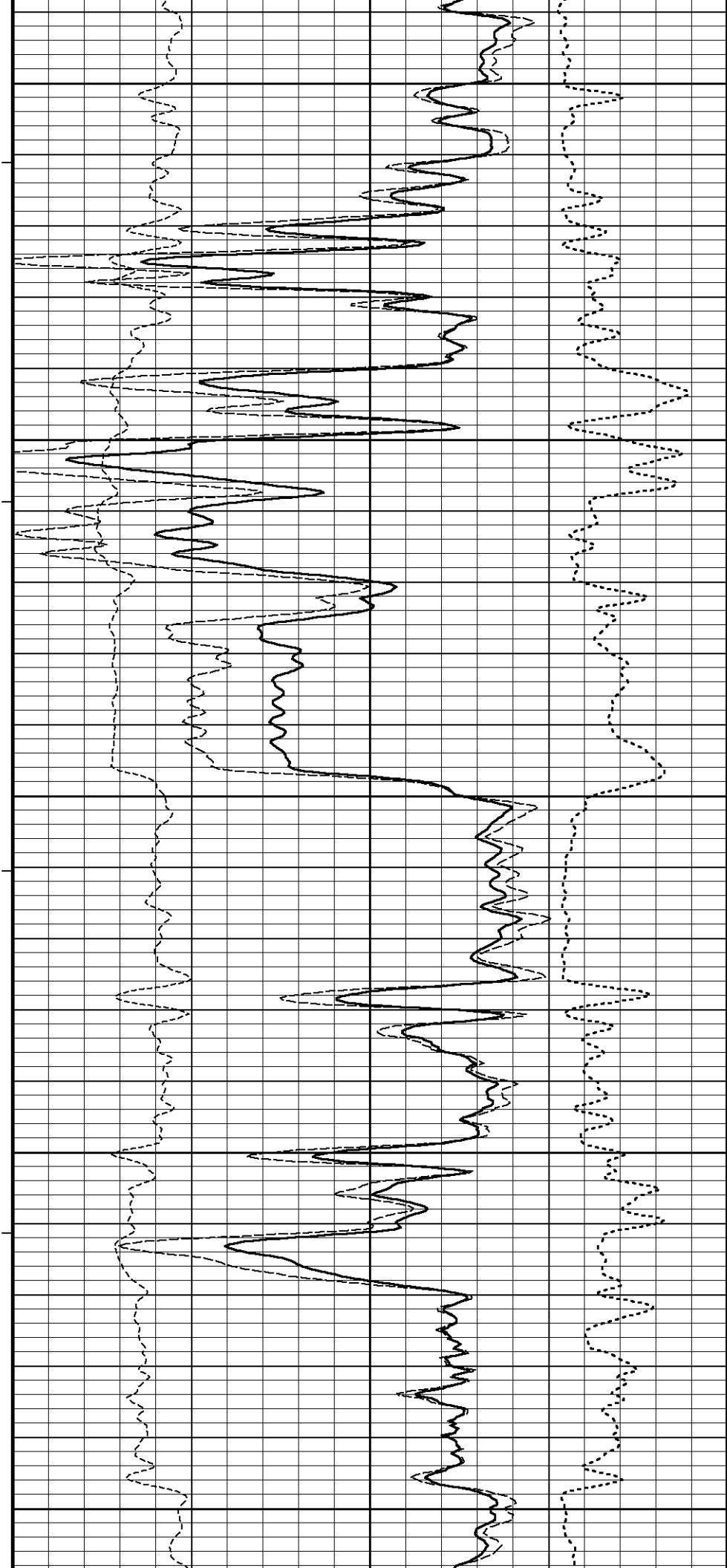
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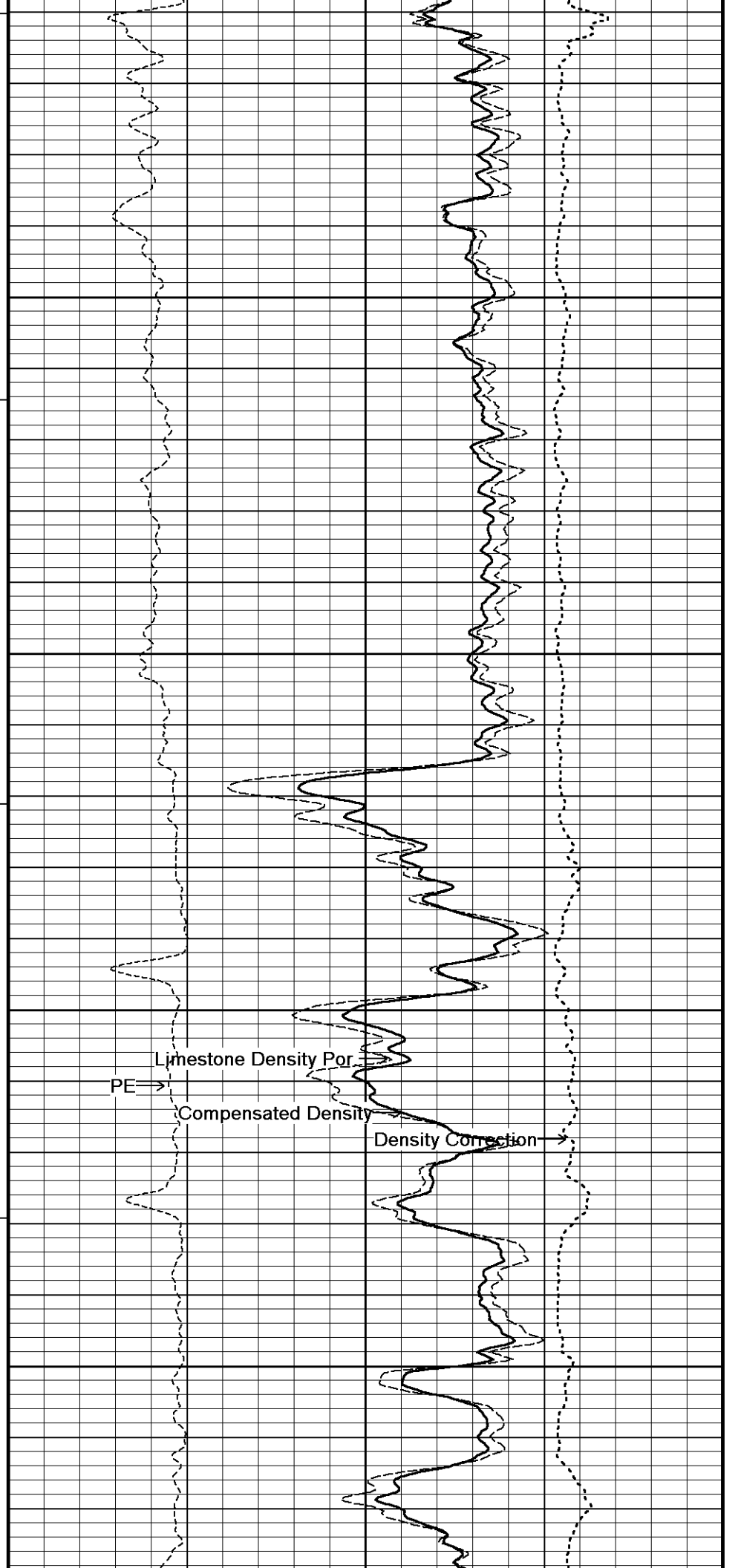
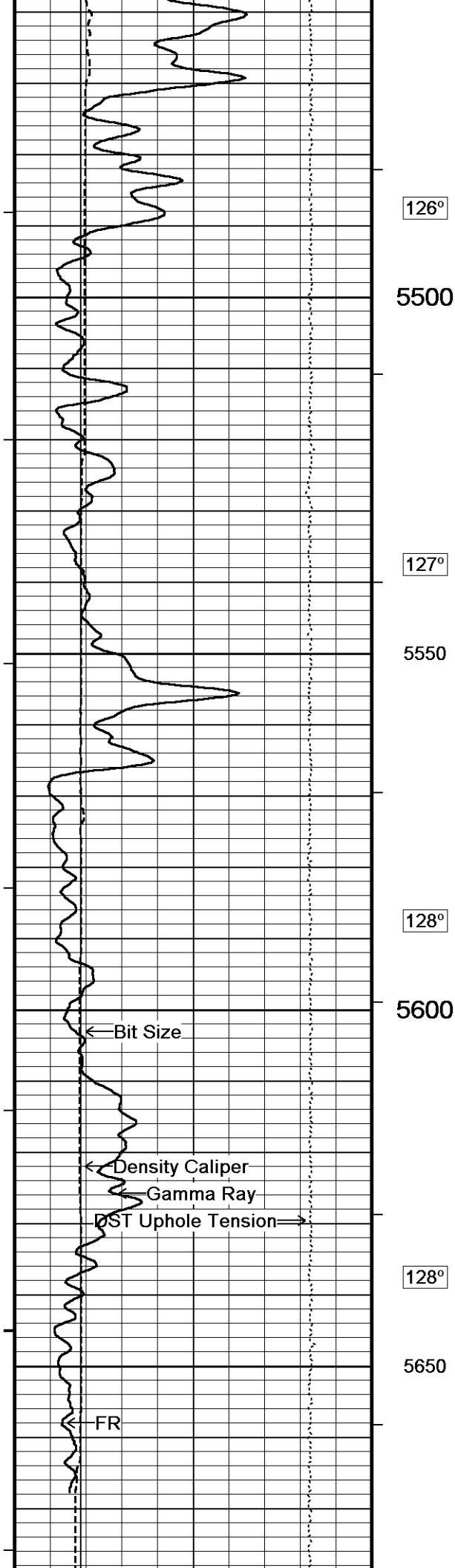
124°

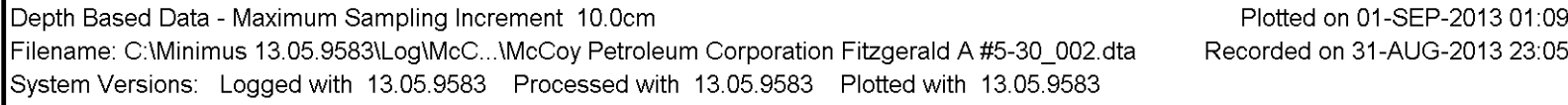
100 5400

126°

5450

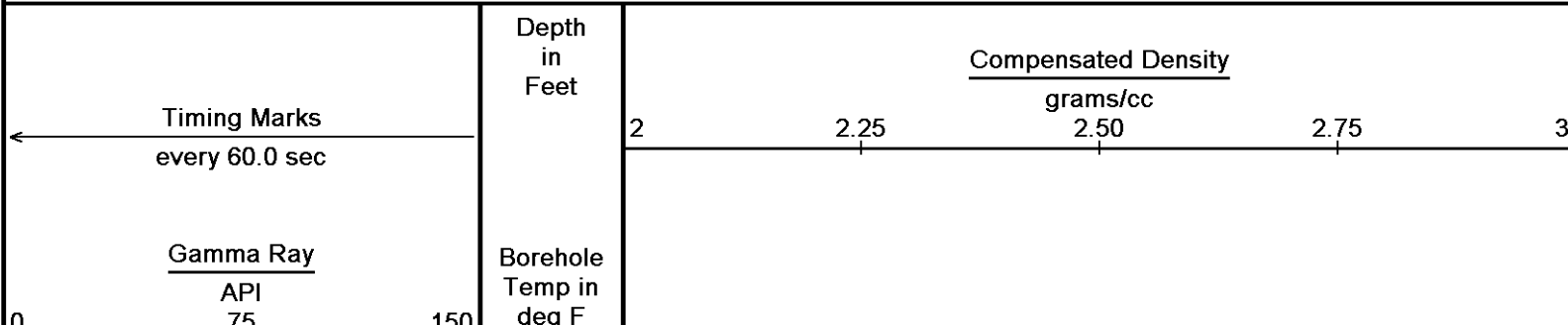


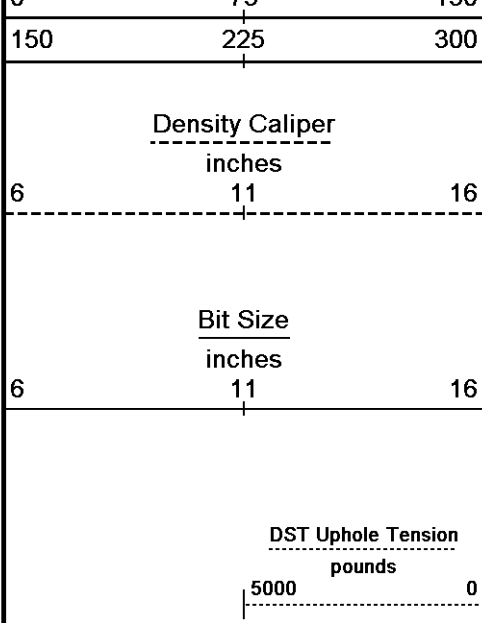




↓	REPEAT SECTION	↓
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Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 01-SEP-2013 01:09
 Filename: C:\Minimus 13.05.9583\Log\McC...McCoy Petroleum Corporation Fitzgerald A #5-30_002.dta
 Recorded on 31-AUG-2013 23:05
 System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583





HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay
Scale
1:240

5500

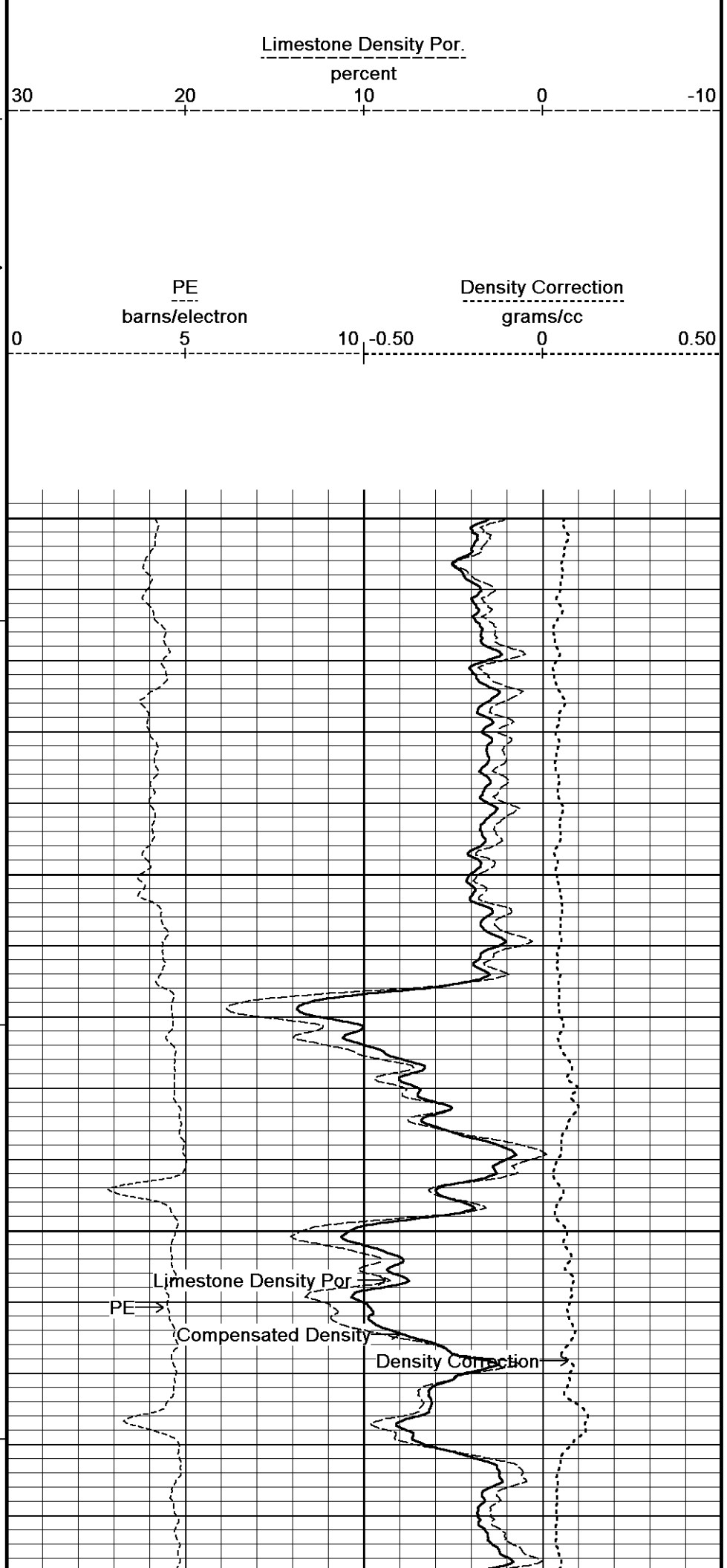
127°

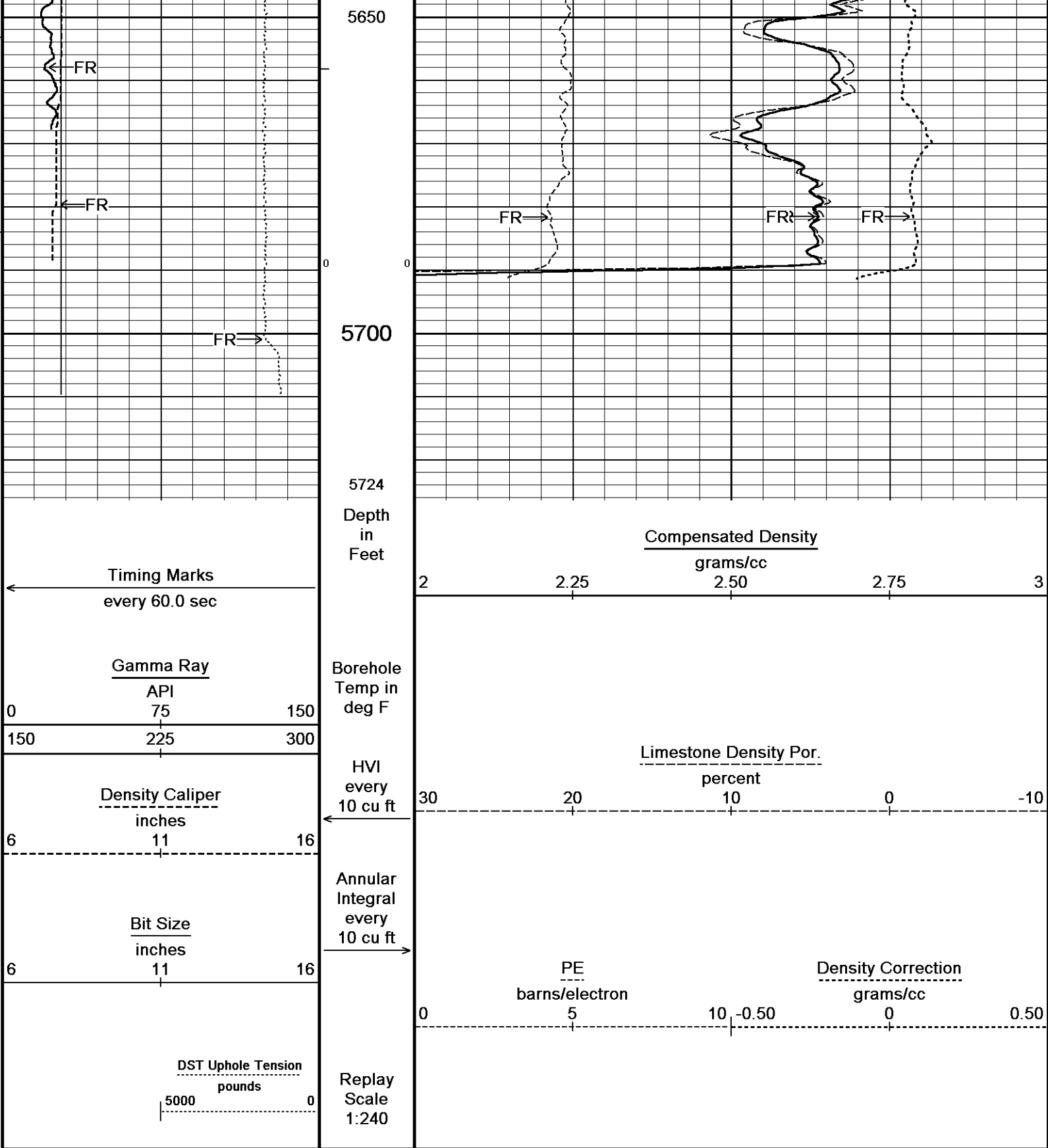
5550

128°

5600

128°





Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 13.05.9583\Log\McCoy Petroleum Corporation Fitzgerald A #5-30_002.dta
System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

Plotted on 01-SEP-2013 01:09
Recorded on 31-AUG-2013 23:05

REPEAT SECTION

BEFORE SURVEY CALIBRATION
C:\Minimus 13.05.9583\Log\McCoy Petroleum Corporation Fitzgerald A ...McCoy Petroleum Corporation Fitzgerald A #5-30_002.dta
General Constants All 000
Last Edited on 01-SEP-2013,01:04

General Parameters		
Mud Resistivity	0.730	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	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Six Res Rt	
RWA Constant A	1.000	
RWA Constant M	2.000	
SW/APOR Tool Source	0.000	

Gamma Calibration MCG-D.K 469			Field Calibration on 28-AUG-2013 10:03
	Measured	Calibrated (API)	
Background	76	51	
Calibrator (Gross)	1161	776	
Calibrator (Net)	1085	725	

Gamma Constants MCG-D.K 469			Last Edited on 31-AUG-2013,22:42
Gamma Calibrator Number	GRC38		
Mud Density	1.08	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl		kppm	
K Mud Type	Chloride		
K Mud Concentration	0.00	%	

High Resolution Temperature Calibration MCG-D.K 469			Field Calibration on 18-AUG-2013,02:35
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG-D.K 469			Last Edited on 18-AUG-2013,02:35
Pre-filter Length	11		

Caliper Calibration MPD-B 64			Base Calibration on 15-AUG-2013 14:54
			Field Calibration on 28-AUG-2013 09:48
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	16560	3.99	
2	24992	5.98	
3	32880	7.97	
4	41184	9.86	
5	50688	11.92	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	5.89	5.98	

Photo Density Calibration MPD-B 64				Base Calibration on 15-AUG-2013 14:37	
				Field Check on 28-AUG-2013 09:43	
Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
	Near	Far	Near	Far	
Reference 1	60206	33560	59556	30836	
Reference 2	25378	2915	24941	2541	
Field Check at Base					
	1155.1	1345.7			

Field Check

1162.3 1348.4

PE Calibration

Base Calibration

	WS	Measured WH	Ratio	Calibrated Ratio
Background	211	1029		
Reference 1	22957	60005	0.386	0.371
Reference 2	6904	25238	0.276	0.272

Field Check at Base

211.2 1028.9

Field Check

209.8 1033.7

Density Constants MPD-B 64

Last Edited on 31-AUG-2013,22:42

Density Source Id	18235B
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	1.08 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 (m)
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

DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Log\McCoy Petroleum Corporation Fitzgerald A ...McCoy Petroleum Corporation Fitzgerald A #5-30_002.dta

3/8" Triple Cone Cable Head (MCB C A)

MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

Compact Comms Gamma

MCG-D.K 469 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log

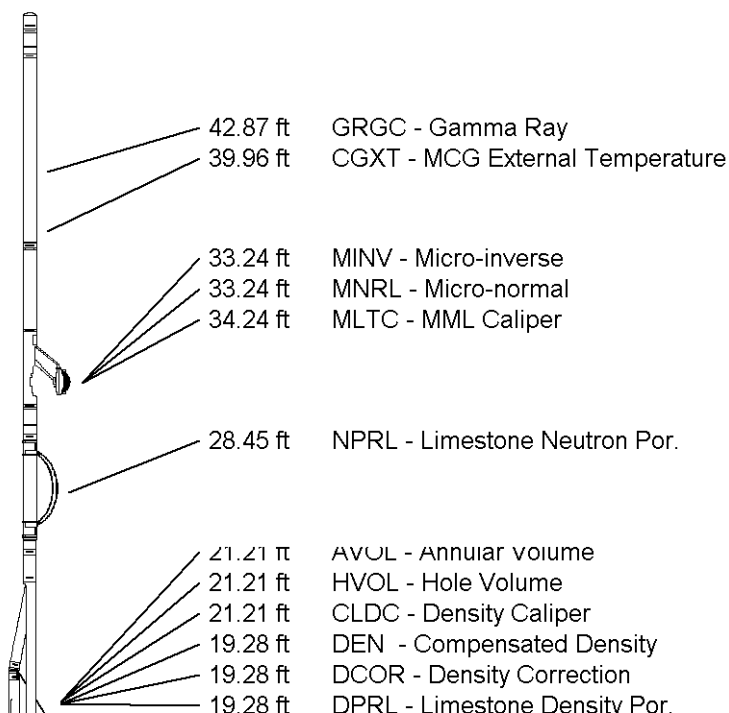
MML-A 3 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron

MDN-A.B 66 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper

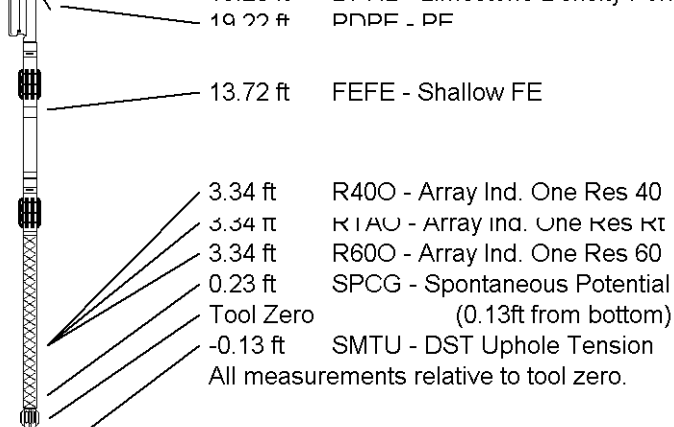
MPD-B 64 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in



Compact Focussed Electric
MFE-B.J 353 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 167 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 49.73 ft Weight: 399.0 lb



COMPANY McCoy PETROLEUM CORPORATION
WELL FITZGERALD 'A' #5-30
FIELD LETTE SE
PROVINCE/COUNTY HASKELL
COUNTRY/STATE UNITED STATES / KANSAS

Elevation Kelly Bushing	2857.00	feet	First Reading	5682.00	feet
Elevation Drill Floor	2855.00	feet	Depth Driller	5700.00	feet
Elevation Ground Level	2846.00	feet	Depth Logger	5701.00	feet



Weatherford®

COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG