Weatherford®

COMPACT PHOTO DENSITY COMPENSATED NEUTRON MICRORESISTIVITY LOG

COMPANY	SANDRIDGE EXPL. & PRODUCTION LLC
WELL	ETHAN JOHN # 1-5 SWD
FIELD	WALDRON WEST
PROVINCE/COUNTY	HARPER
COUNTRY/STATE	U.S.A. / KANSAS
LOCATION	1226' FNL & 253' FEL NE/4

40 Years of Wireline 1970 2010

SEC	TWP	RGE	Other Services
5	33S	6W	MAI/MFE

API Number 15-077-21798
Permit Number

Permanent Datum G.L., Elevation 1361 feet
Log Measured From KB
Drilling Measured From 1381

Elevations:	feet
KB	1381.00
DF	1379.00
GL	1361.00

Date	08-FEB-2012				
Run Number	ONE				
Depth Driller	5178.00	feet			
Depth Logger	5162.00	feet			
First Reading	5139.00	feet			
Last Reading	3000.00	feet			
Casing Driller	700.00	feet			
Casing Logger	689.00	feet			
Bit Size	8.750	inches			
Hole Fluid Type	CHEMICAL				
Density / Viscosity	8.90	lb/USg	48.00	CP	
PH / Fluid Loss	11.00		5.60	ml/30Min	
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.19 @ 55.0	ohm-m			
Rmf @ Measured Temp	0.95 @ 55.0	ohm-m			
Rmc @ Measured Temp	1.43 @ 55.0	ohm-m			
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.49 @140.0	ohm-m			
Time Since Circulation	8 HOURS				
Max Recorded Temp	140.00	deg F			
Equipment Name	COMPACT				
Equipment / Base	13096		LIB		
Recorded By	A. GIAMBALVO				
Witnessed By	DOUG LANGLEY				
S.O. / JOB #	3534701		LB12-028		

BOREHOLE RECORD

Last Edited: 08-FEB-2012 15:38

Bit Size inches	Depth From feet	Depth To feet
8.750	689.00	5162.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	689.00	36.00

REMARKS

Tools Ran: MCG, MML, MDN, MPD, SKJ, MFE, MAI.
Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE and MAI 0.5 inch standoffs used.
2.71 g/cc Limestone Density Matrix used to calculate porosity.
All intervals logged and scaled per customer's request.
Annular volume with 7 inch production casing calculated from TD to 3000 ft = 285 cu. ft.
Service order # 3534701
Rig: Tomcat Drilling Rig # 3
Engineer: A. Giambalvo
Operator(s): 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.

5 INCH MAIN

5 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 08-FEB-2012 16:24
Filename: C:\Minimus 11_03_4044\Data\SandRidge Ethan ...\SandRidge Ethan John 1-5 SWD_003.dta
Recorded on 08-FEB-2012 13:09
System Versions: Logged with 11.03.4044 Plotted with 11.03.4044

Timing Marks
every 60.0 sec

Depth in Feet

Limestone Neutron Por.
percent
30 20 10 0 -10

Gamma Ray
API
0 75 150

Borehole Temp in deg F

Limestone Density Por.
percent
30 20 10 0 -10

Density Caliper
inches
6 11 16

HVI every 10 cu ft

PE
barns/electron
0 5 10

Density Correction
grams/cc
-0.25 0 0.25

Annular Integral every 10 cu ft

Bit Size
inches
6 11 16

Micro-normal
ohm metres
0 10

DST Uphole Tension
pounds
5000 0

Replay Scale 1:240

Micro-inverse
ohm metres
0 10

3000

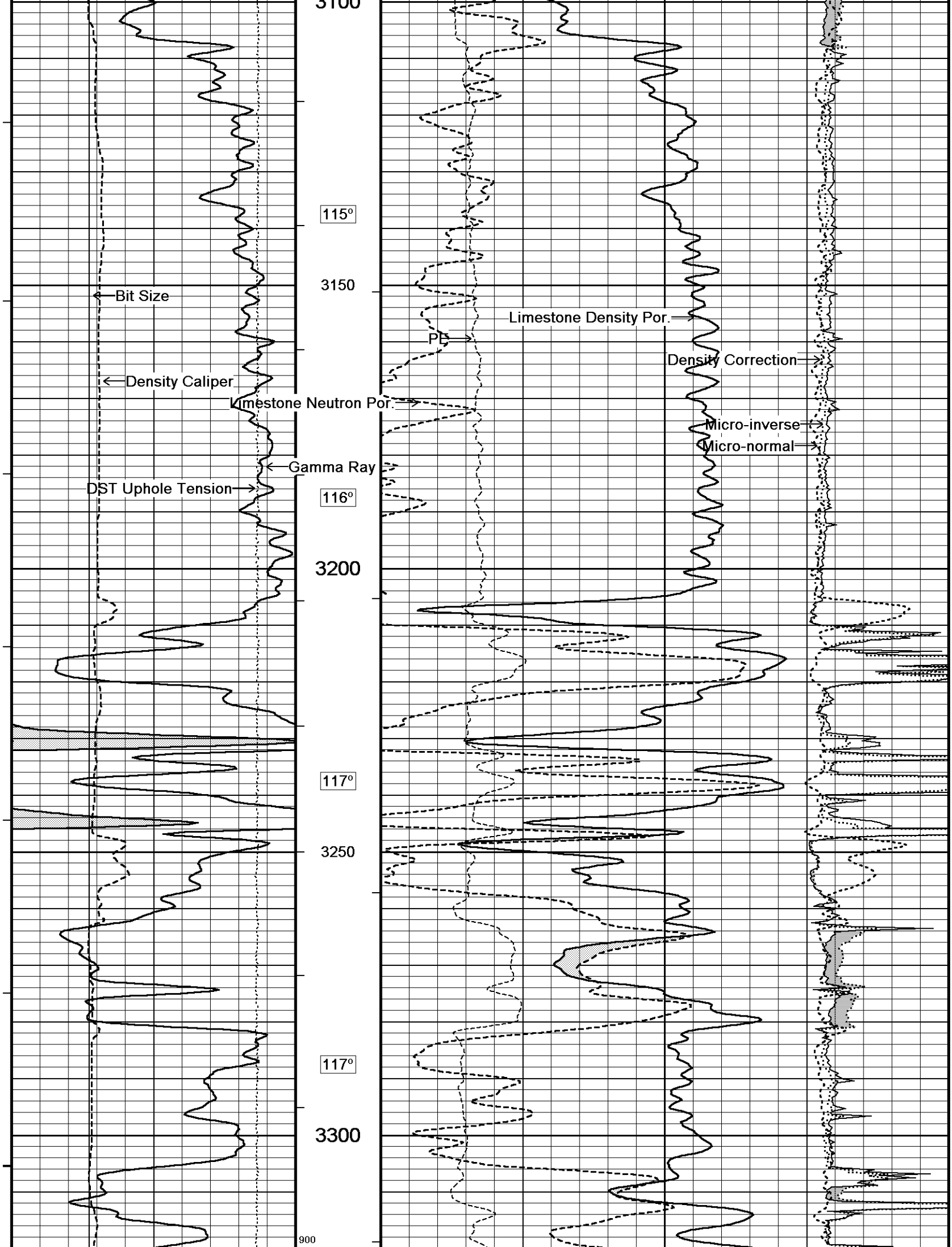
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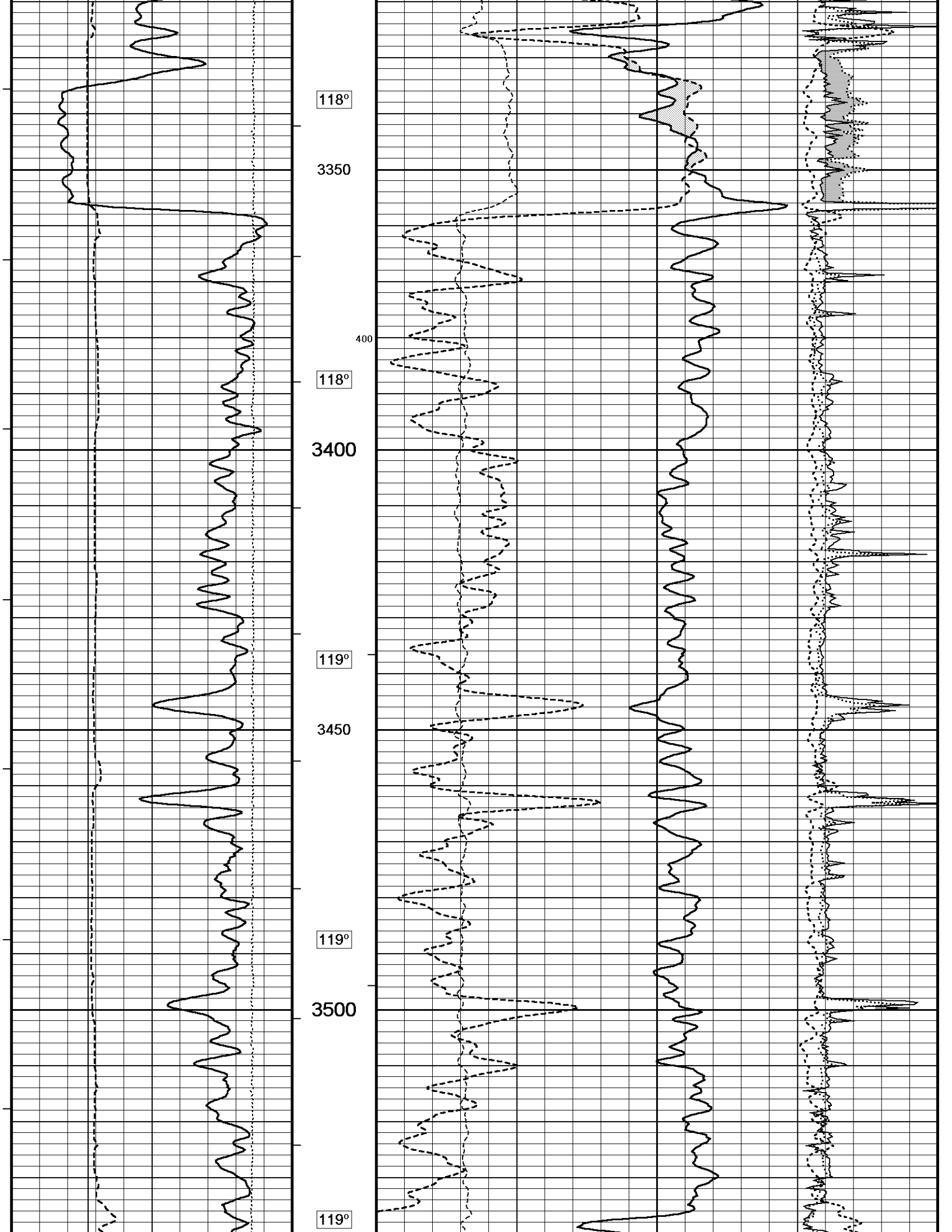
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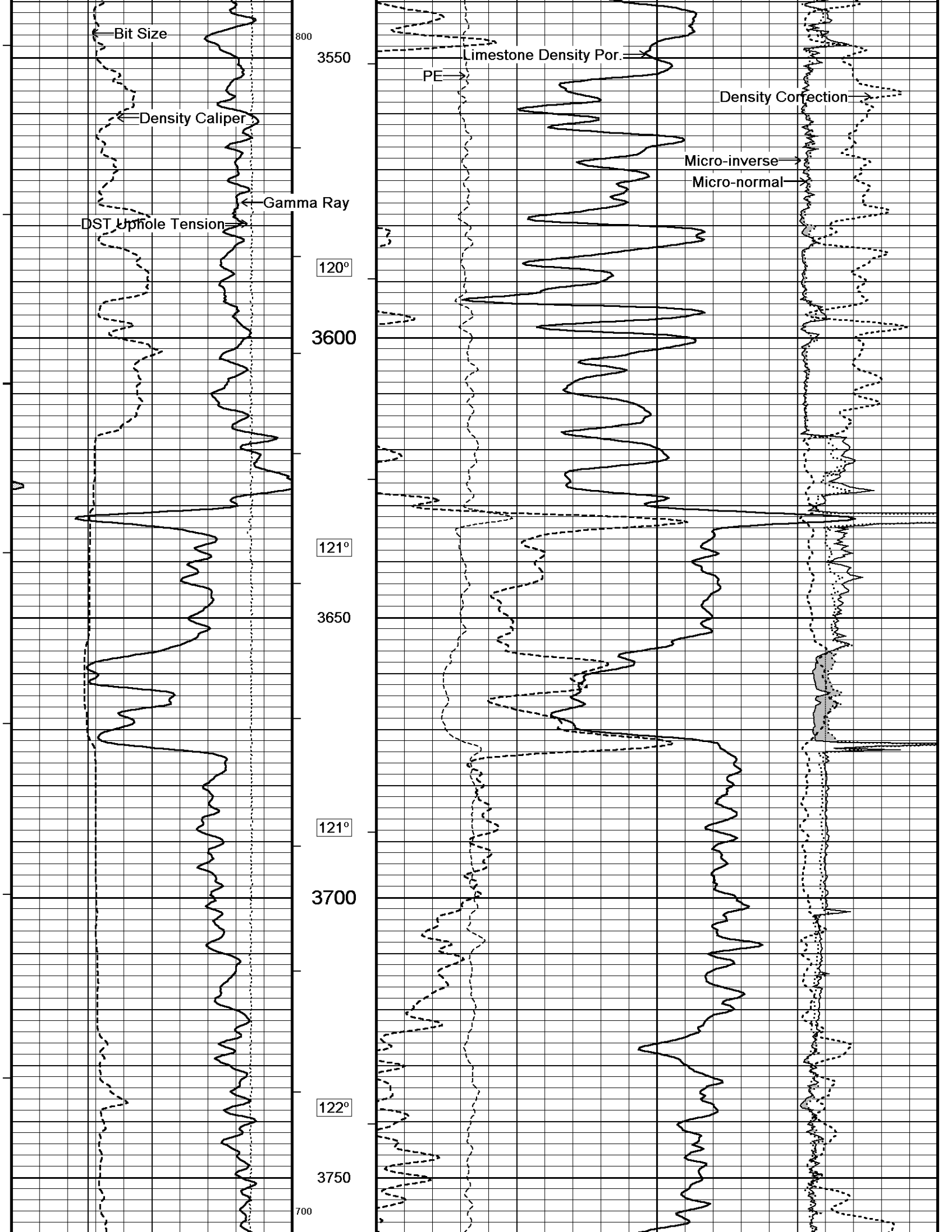
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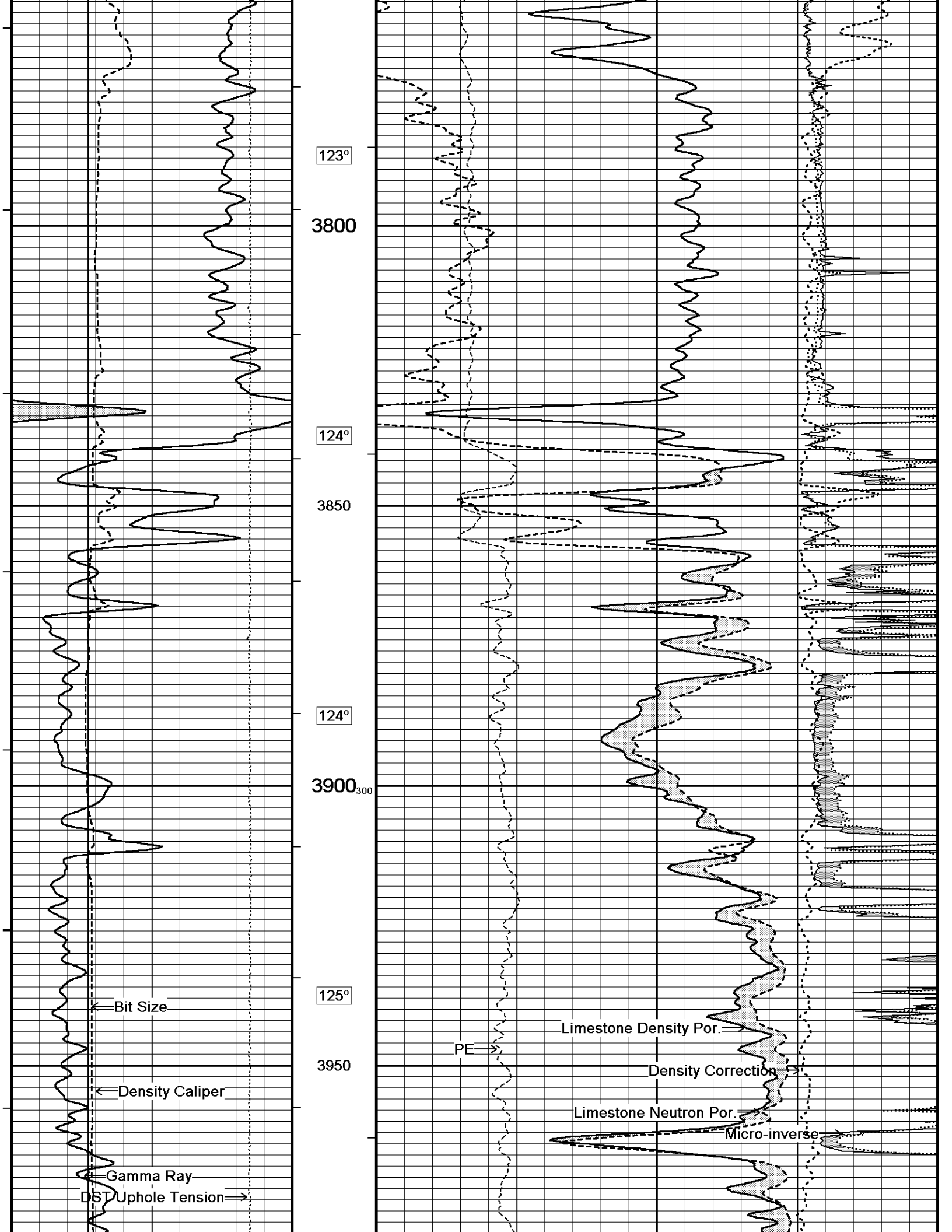
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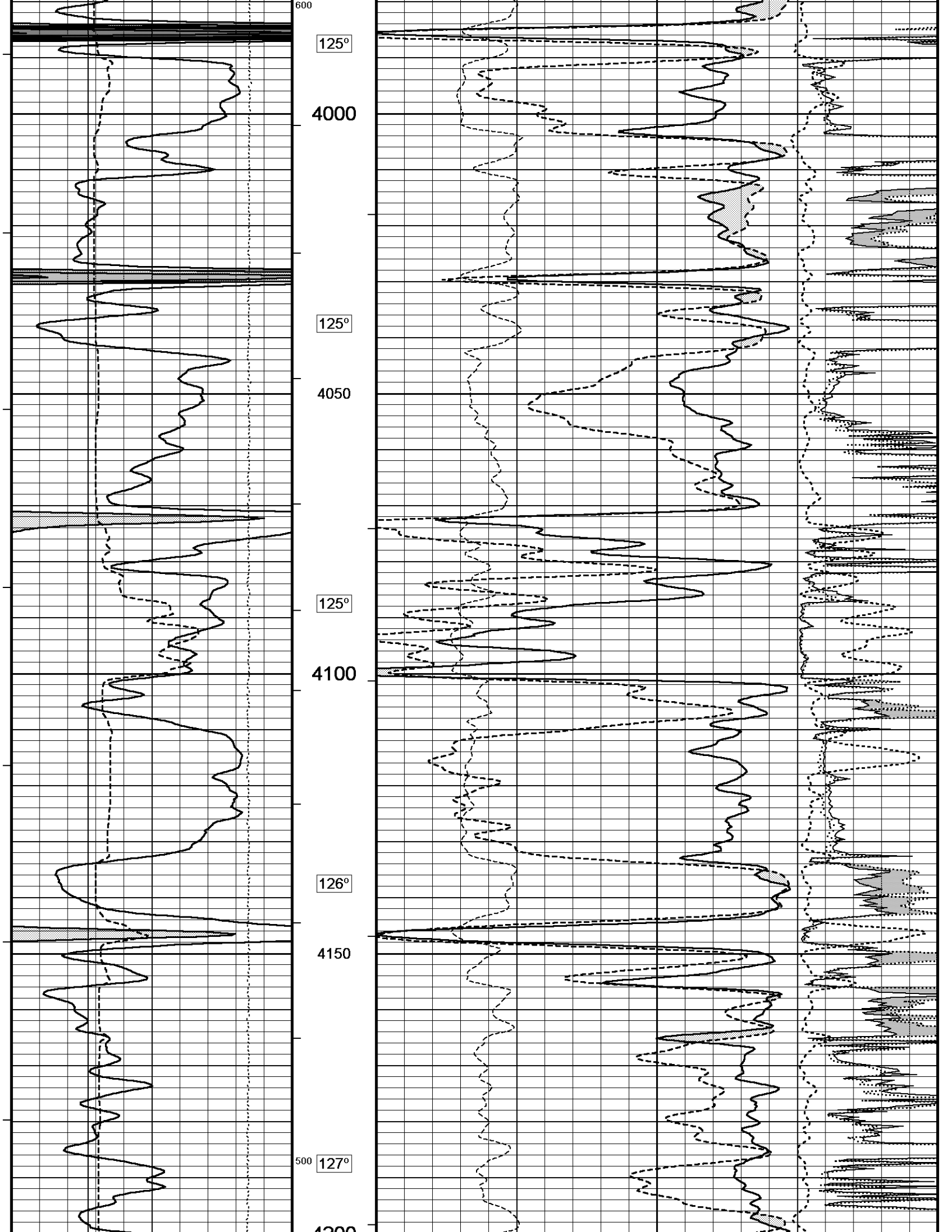
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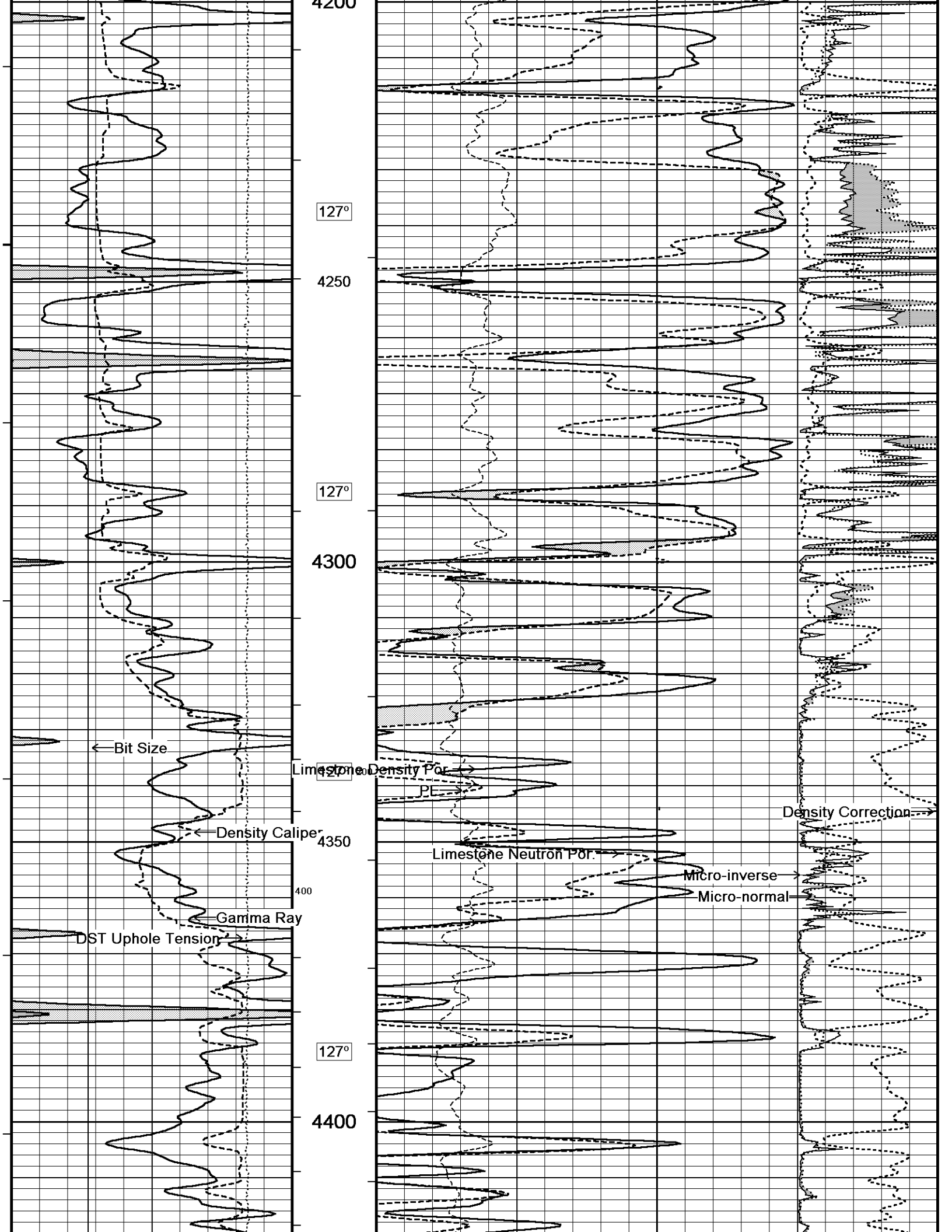

3100
115°
3150
Bit Size
Density Caliper
Limestone Neutron Por.
Gamma Ray
DST Uphole Tension
PE
Limestone Density Por.
Density Correction
Micro-inverse
Micro-normal
116°
3200
117°
3250
117°
3300
900

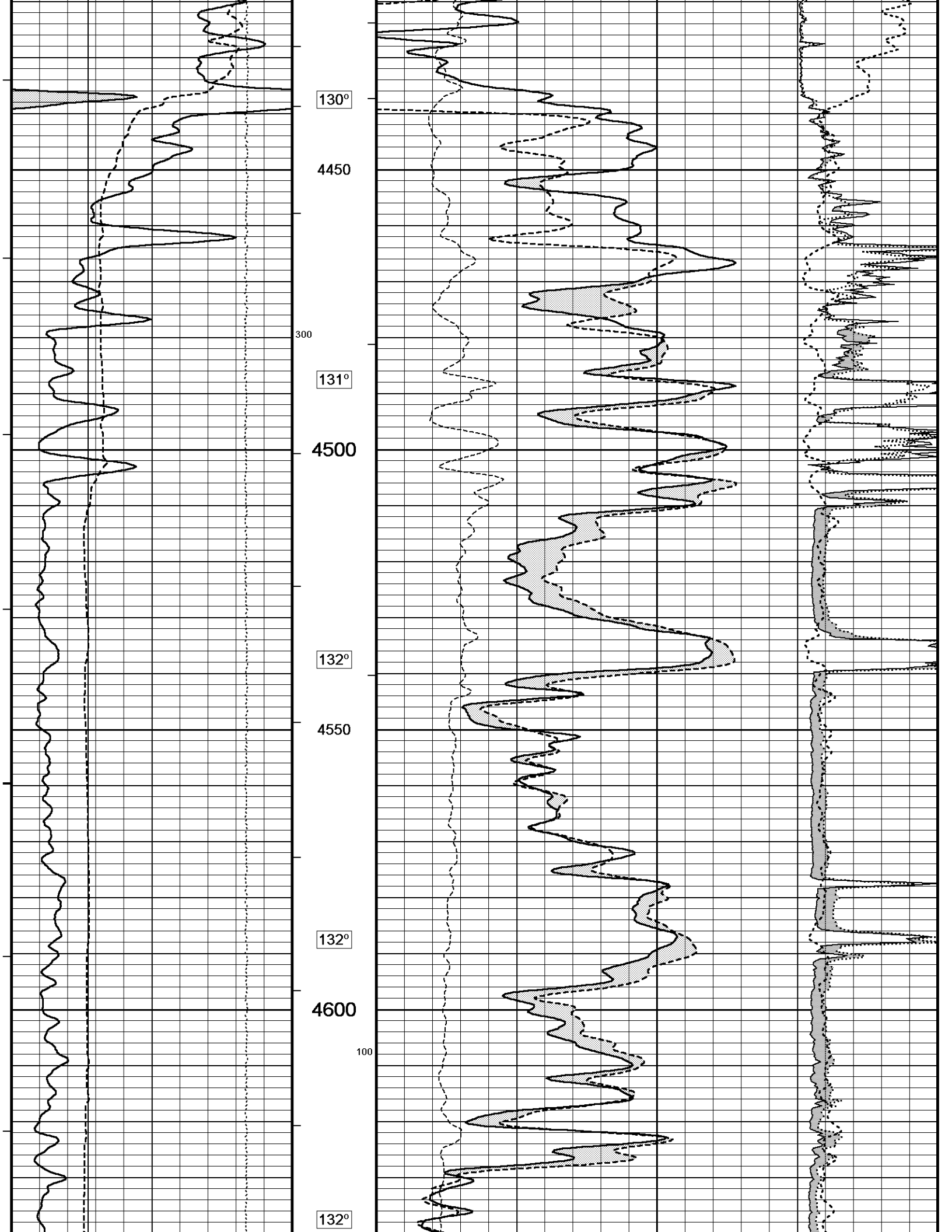

118°
3350
400
118°
3400
119°
3450
119°
3500
119°

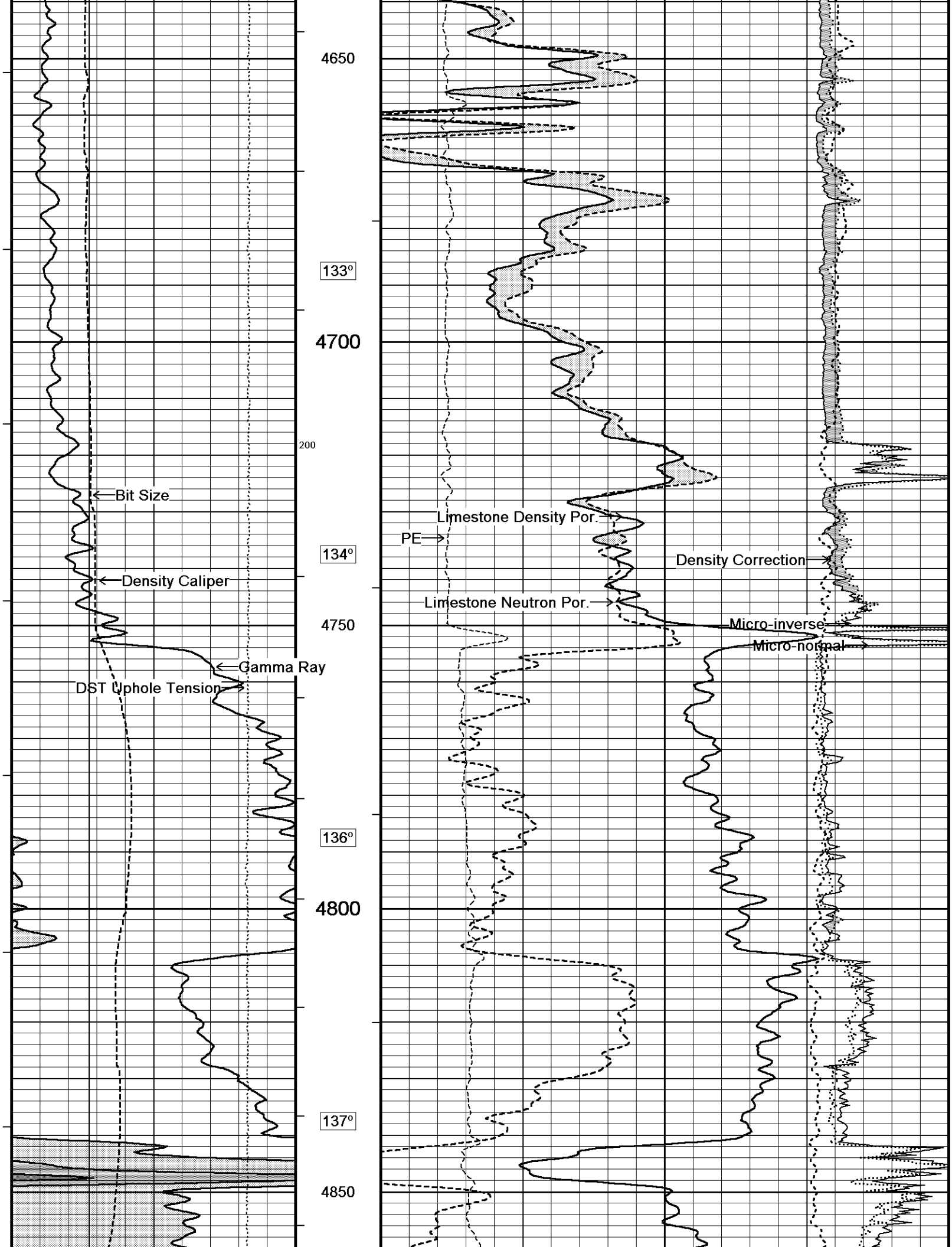

Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
800
700
3550
3600
3650
3700
3750
120°
121°
121°
122°
Limestone Density Por.
PE
Density Correction
Micro-inverse
Micro-normal

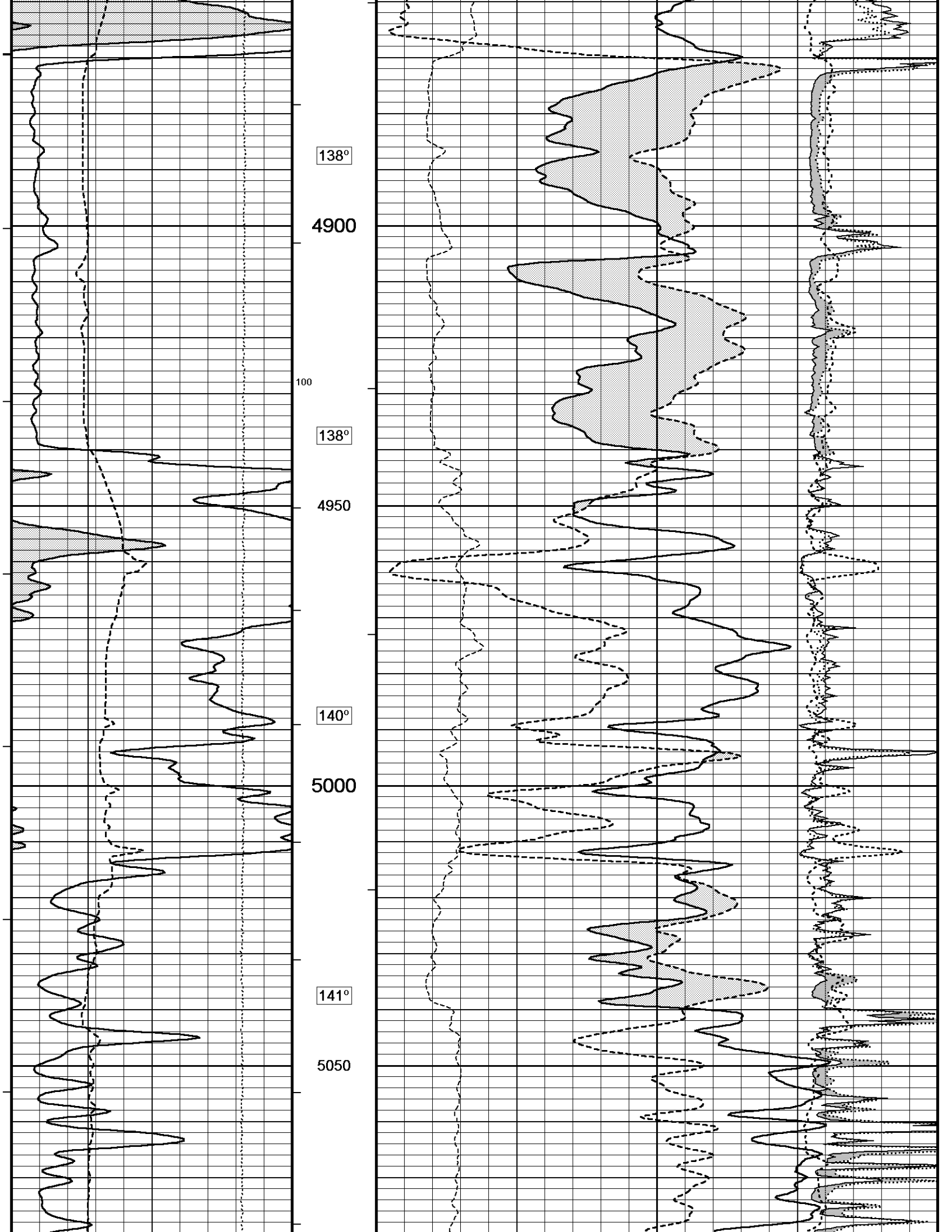

123°
3800
124°
3850
124°
3900
300
125°
3950
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
PE
Limestone Density Por.
Density Correction
Limestone Neutron Por.
Micro-inverse

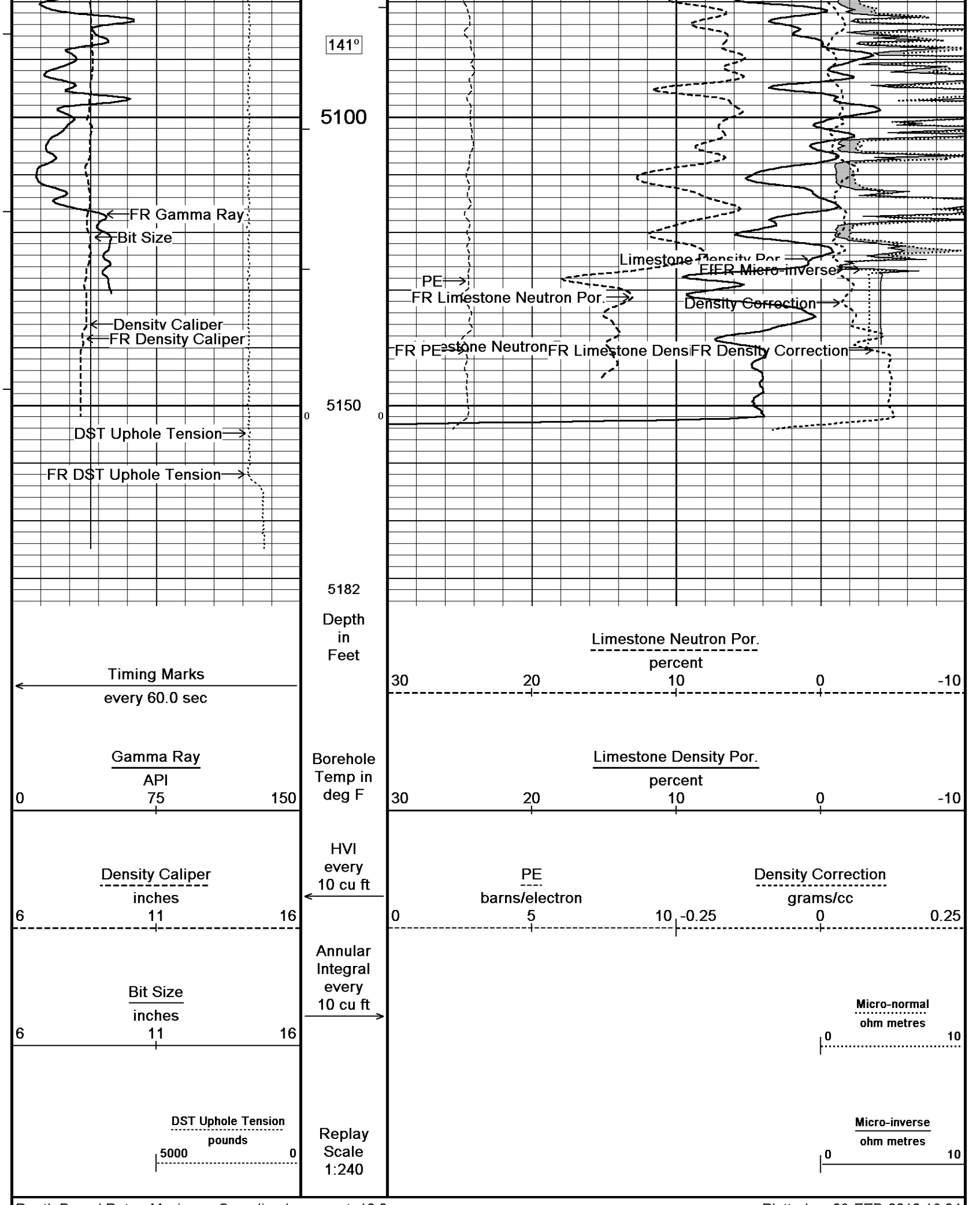

600
125°
4000
125°
4050
125°
4100
126°
4150
500
127°


4200
127°
4250
127°
4300
Bit Size
Limestone Density Por.
PE
Density Correction
Density Caliper
4350
Limestone Neutron Por.
Micro-inverse
Micro-normal
400
Gamma Ray
DST Uphole Tension
127°
4400


130°
4450
300
131°
4500
132°
4550
132°
4600
100
132°


4650
133°
4700
200
Bit Size
Density Caliper
134°
4750
Gamma Ray
DST Uphole Tension
136°
4800
137°
4850
Limestone Density Por.
PE
Density Correction
Limestone Neutron Por.
Micro-inverse
Micro-normal


138°
4900
100
138°
4950
140°
5000
141°
5050

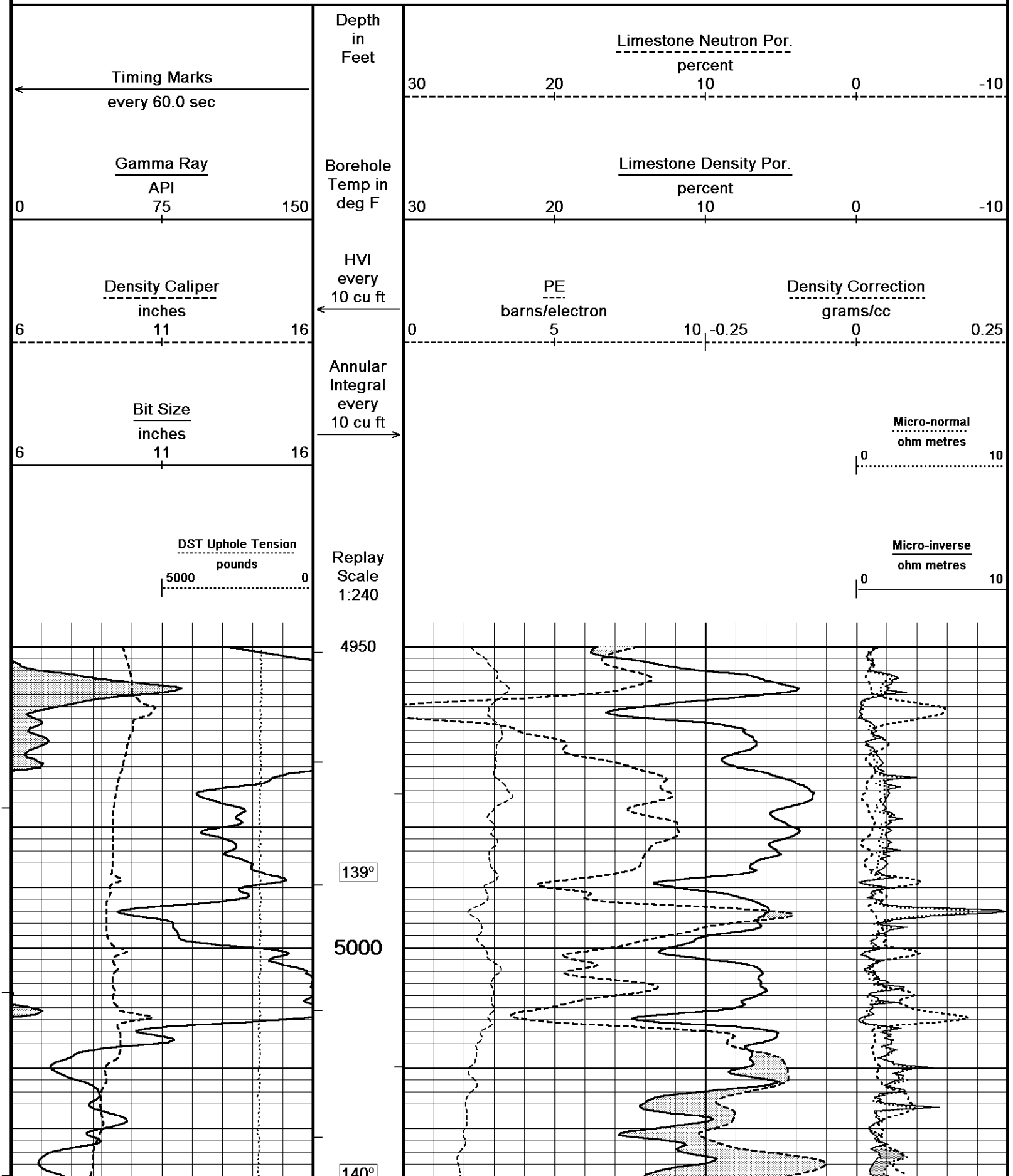


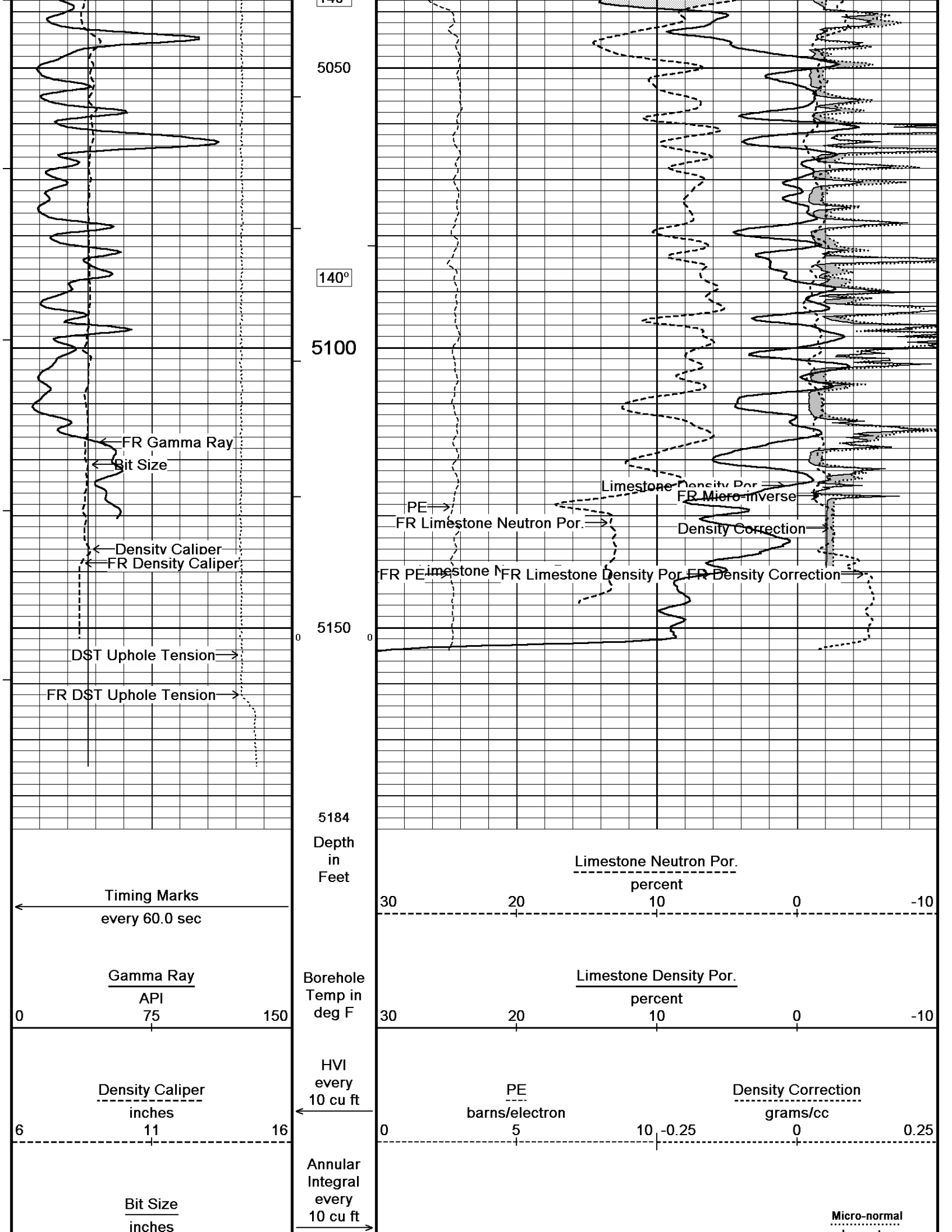
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Plotted on 08-FEB-2012 16:24
Filename: C:\Minimus 11_03_4044\Data\SandRidge Ethan ...\SandRidge Ethan John 1-5 SWD_003.dta
Recorded on 08-FEB-2012 13:09
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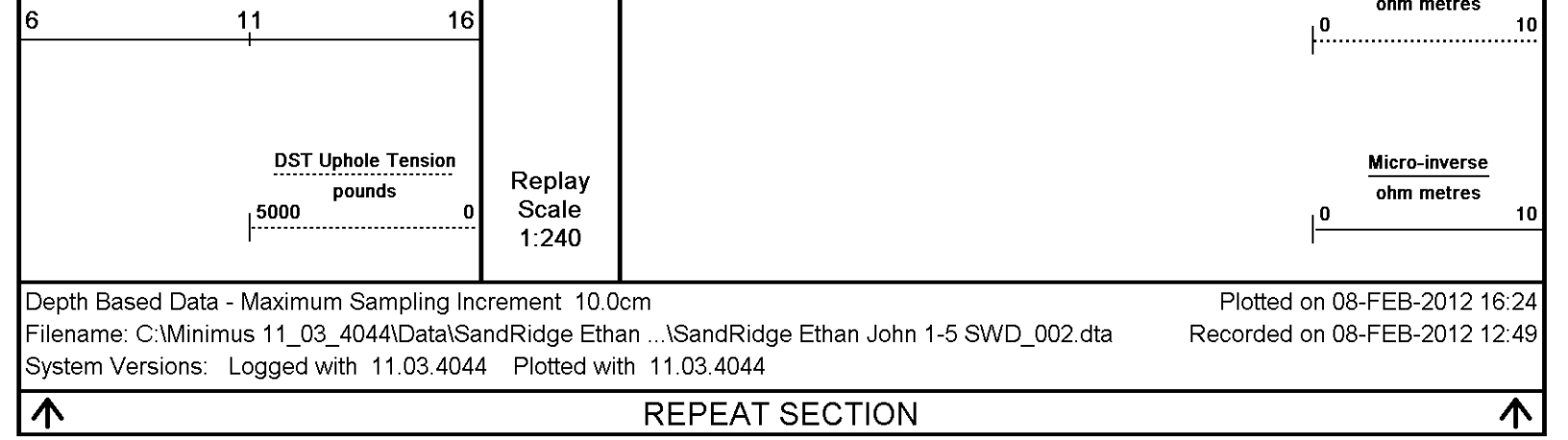
5 INCH MAIN

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 08-FEB-2012 16:24
Filename: C:\Minimus 11_03_4044\Data\SandRidge Ethan ...\SandRidge Ethan John 1-5 SWD_002.dta
Recorded on 08-FEB-2012 12:49
System Versions: Logged with 11.03.4044 Plotted with 11.03.4044




5050
140°
5100
5150
5184
FR Gamma Ray
Bit Size
Density Caliper
FR Density Caliper
DST Uphole Tension
FR DST Uphole Tension
PE
FR Limestone Neutron Por.
Limestone Density Por.
FR Micro-inverse
Density Correction
FR PE
FR Limestone Density Por.
FR Density Correction
0
0
Depth in Feet
Timing Marks
every 60.0 sec
Limestone Neutron Por.
percent
30 20 10 0 -10
Gamma Ray
API
0 75 150
Borehole Temp in deg F
Limestone Density Por.
percent
30 20 10 0 -10
HVI every 10 cu ft
Density Caliper
inches
6 11 16
PE
barns/electron
0 5 10
Density Correction
grams/cc
-0.25 0 0.25
Annular Integral every 10 cu ft
Bit Size
inches
Micro-normal

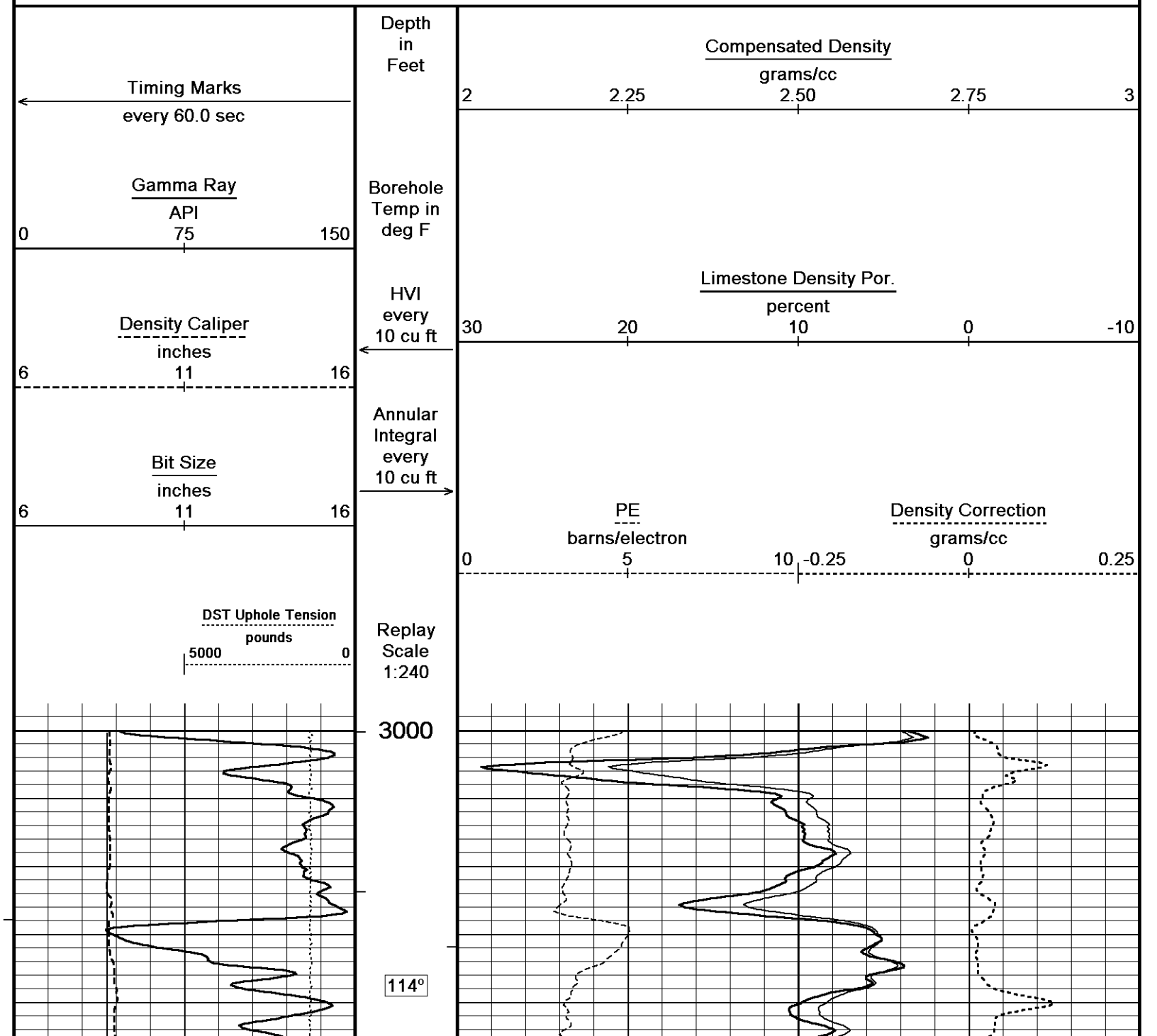


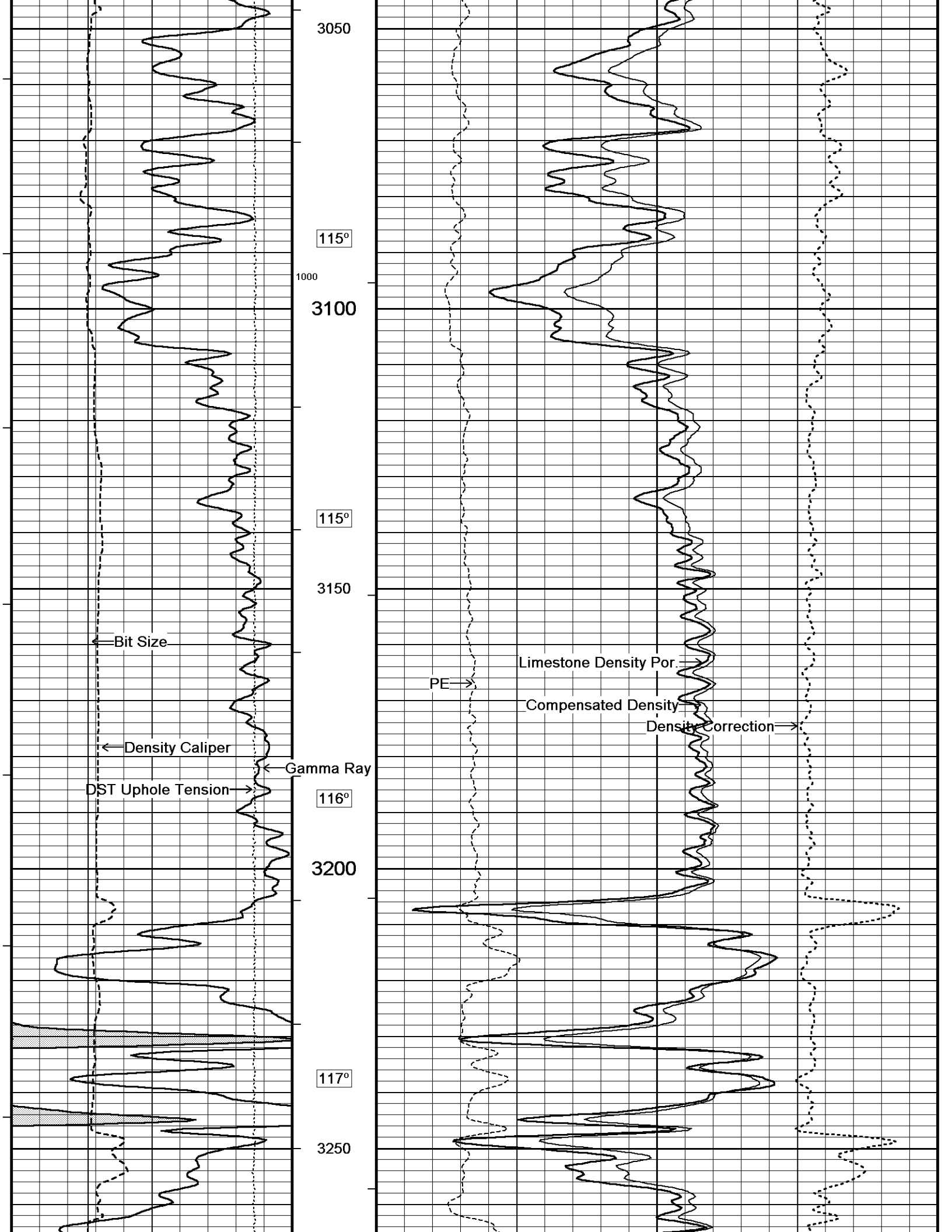
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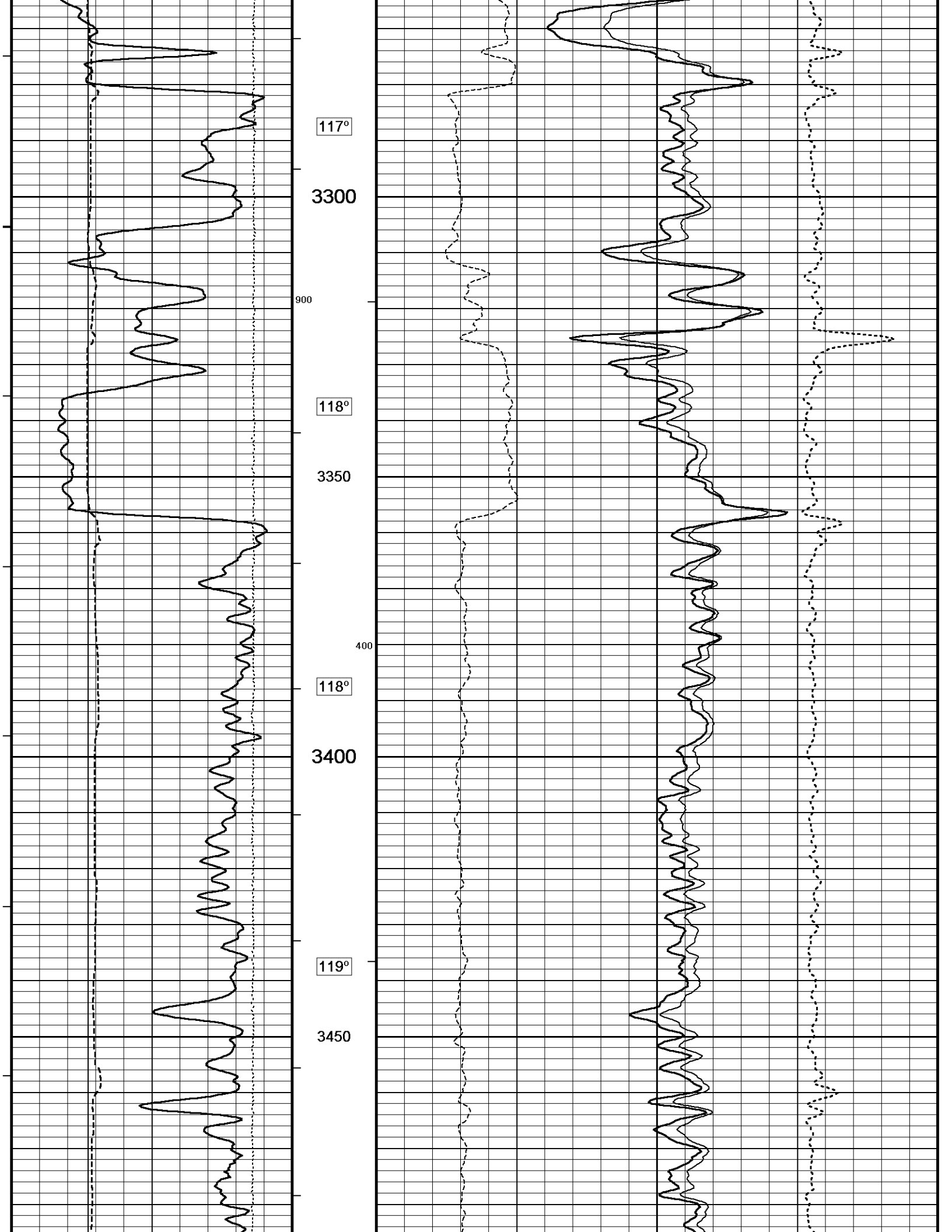
REPEAT SECTION

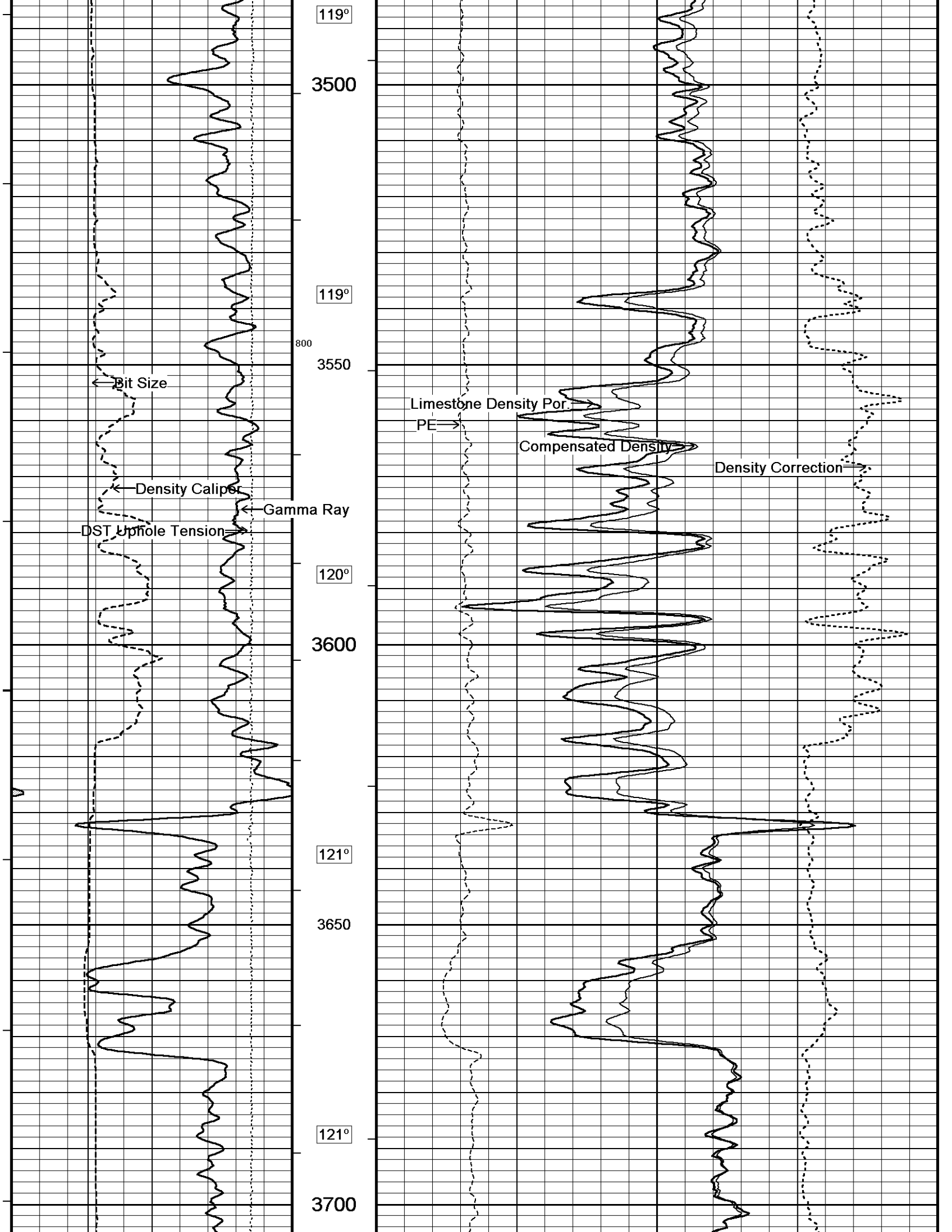
5 INCH MAIN

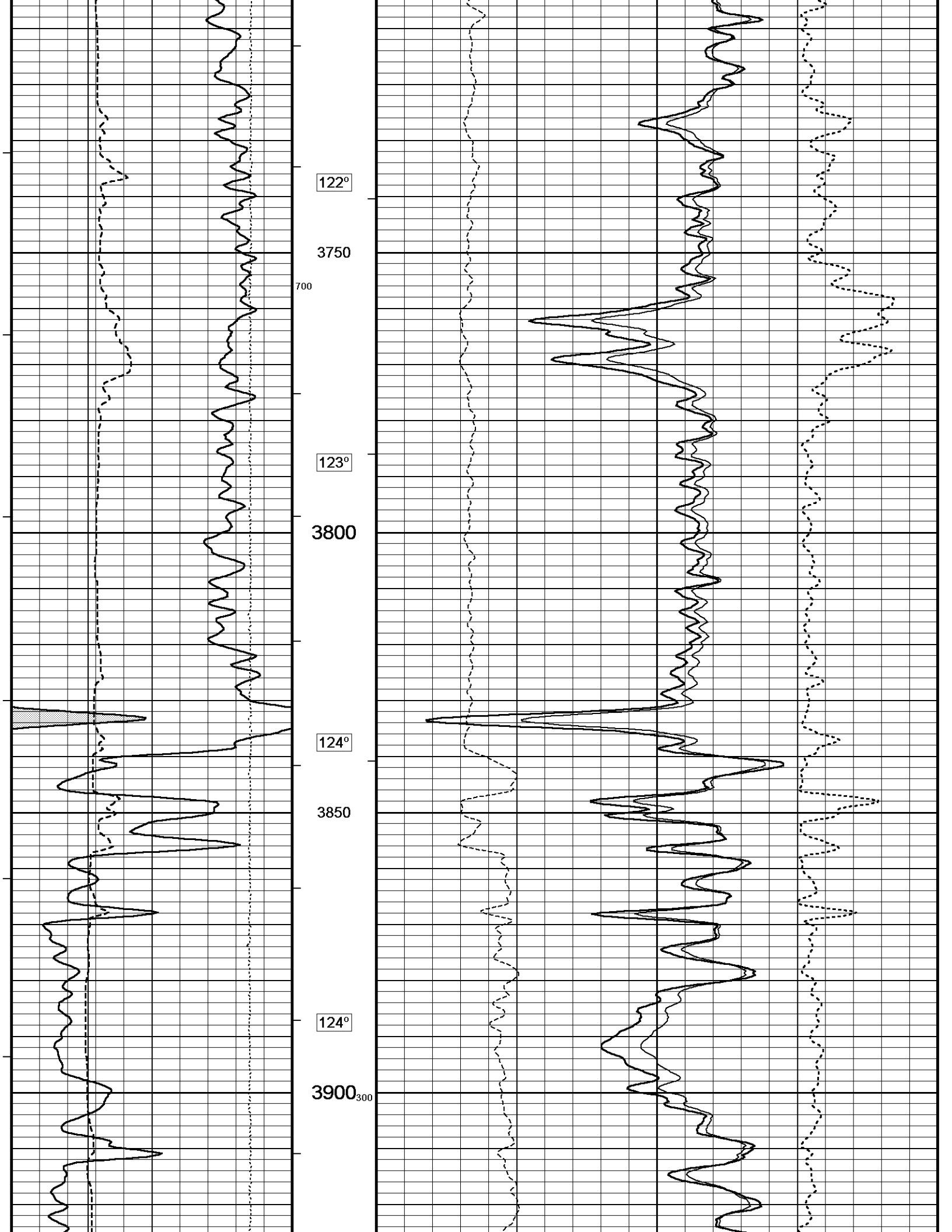
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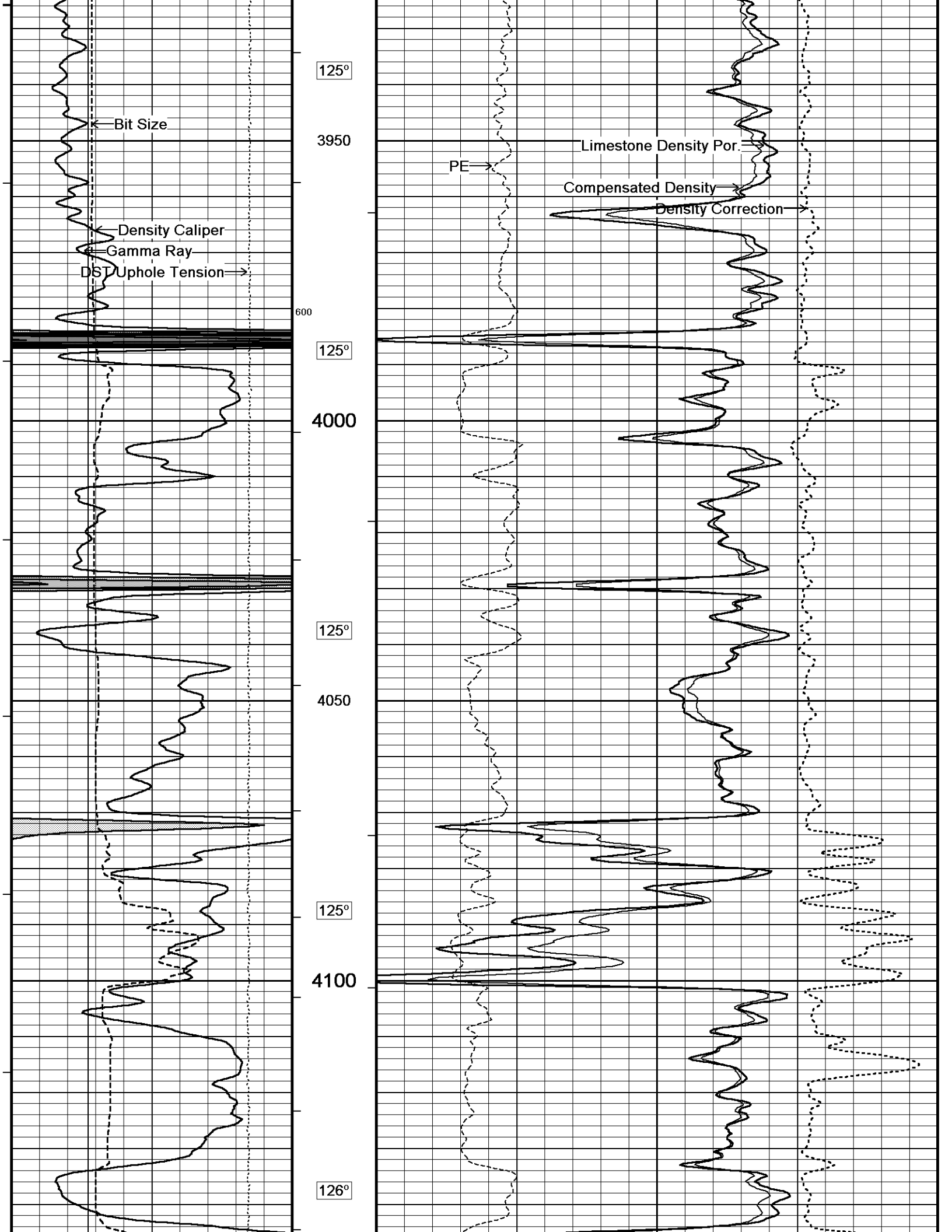


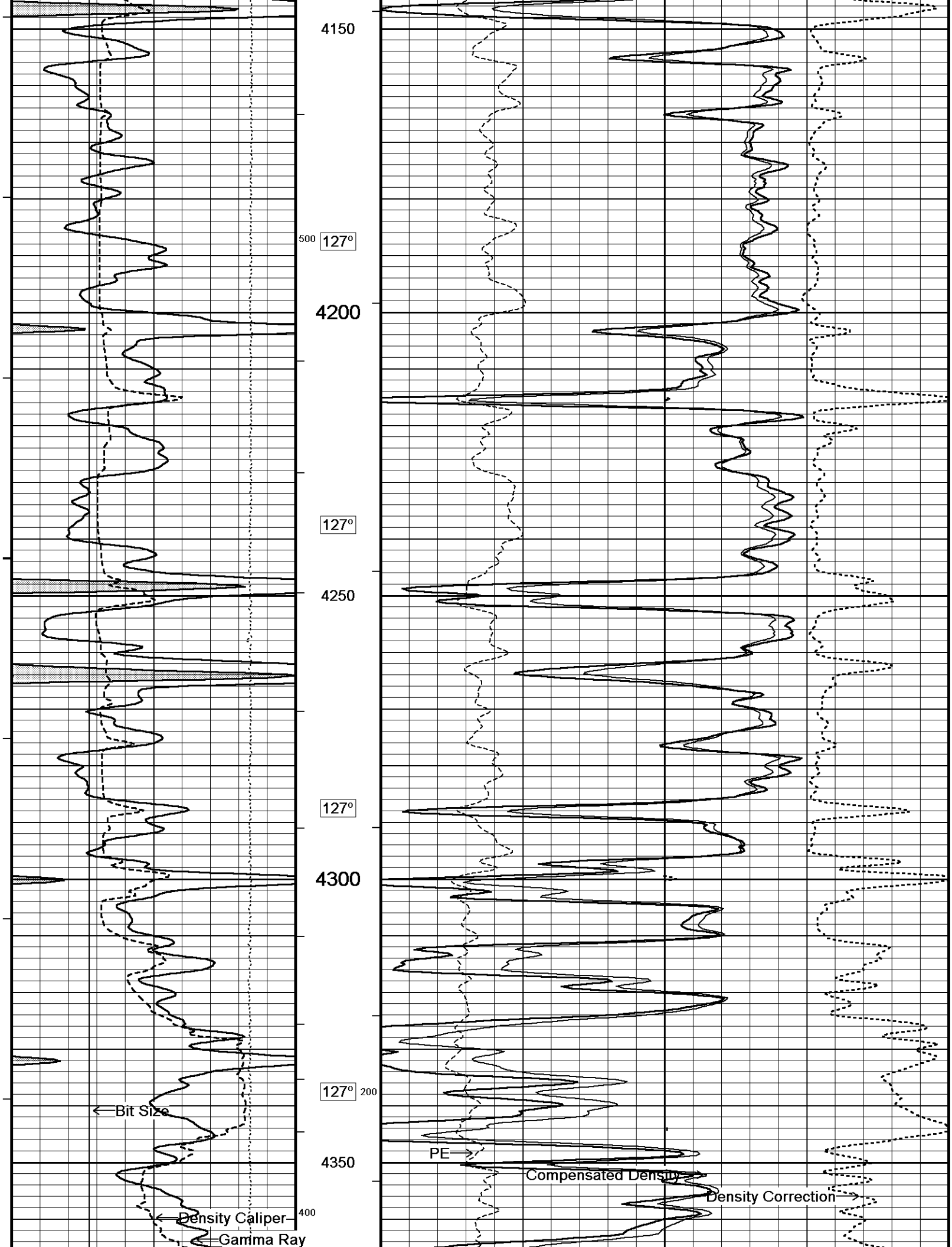

3050
115°
1000
3100
115°
3150
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
116°
3200
117°
3250
PE
Limestone Density Por.
Compensated Density
Density Correction

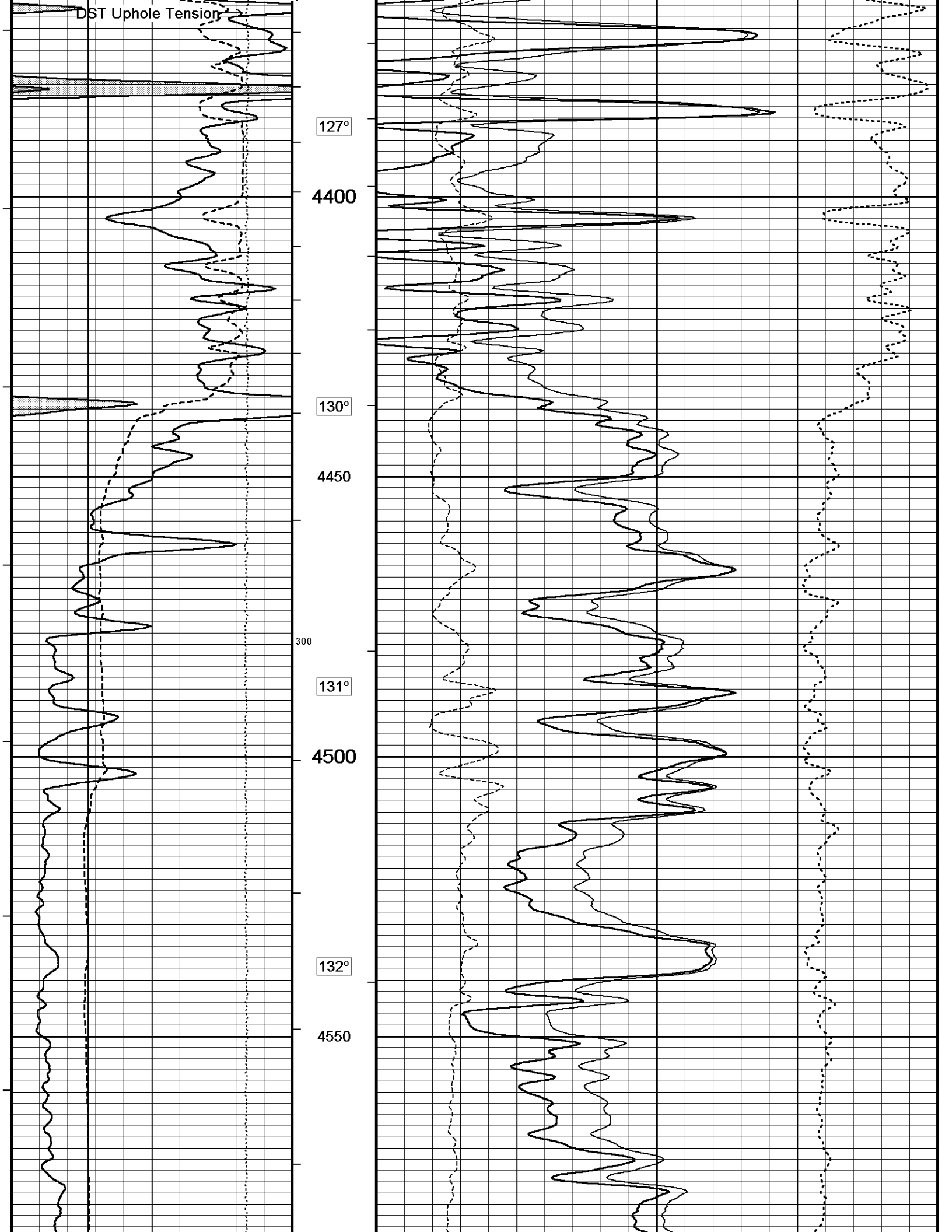

117°
3300
900
118°
3350
400
118°
3400
119°
3450

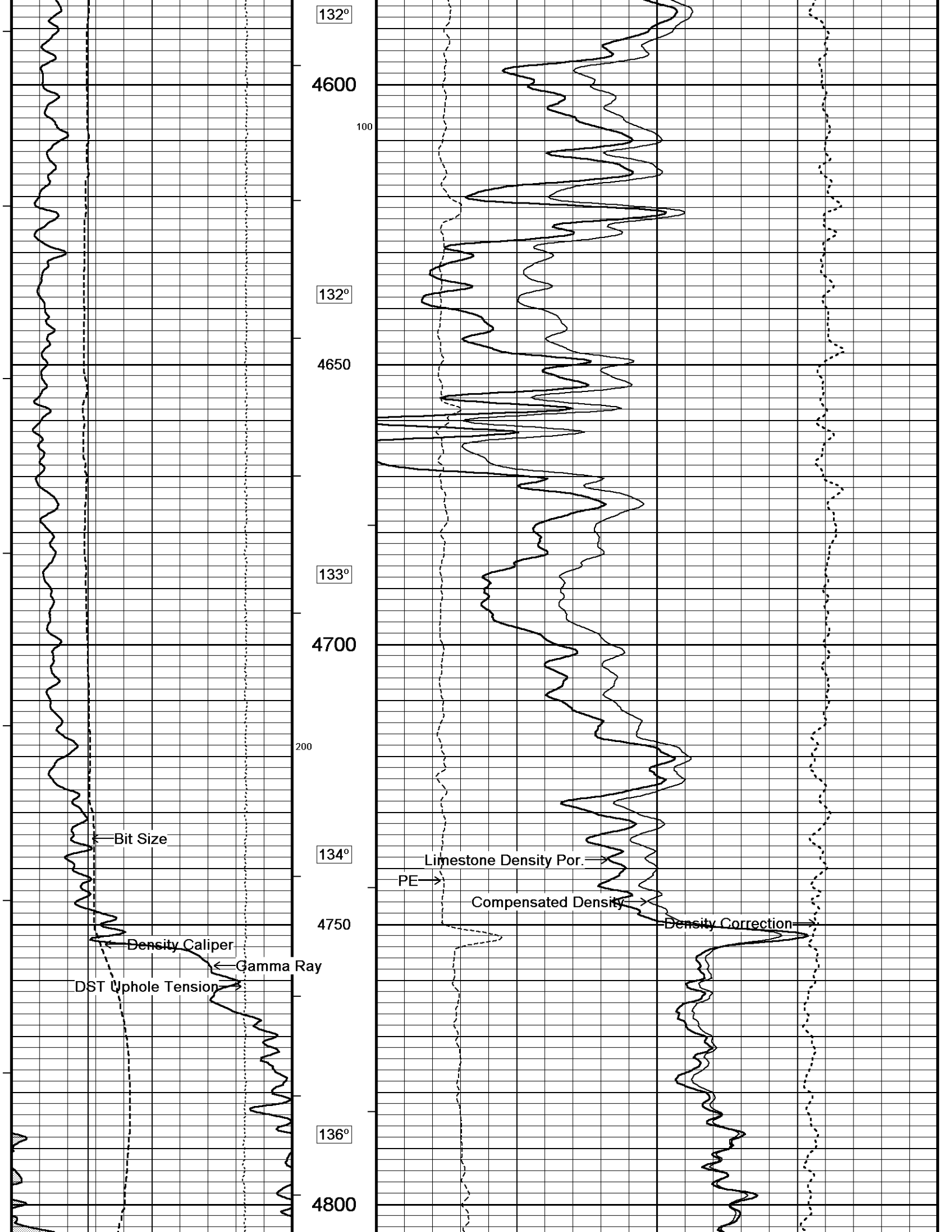

119°
3500
119°
800
3550
Bit Size
Limestone Density Por.
PE
Compensated Density
Density Correction
Density Caliper
Gamma Ray
DST Uphole Tension
120°
3600
121°
3650
121°
3700

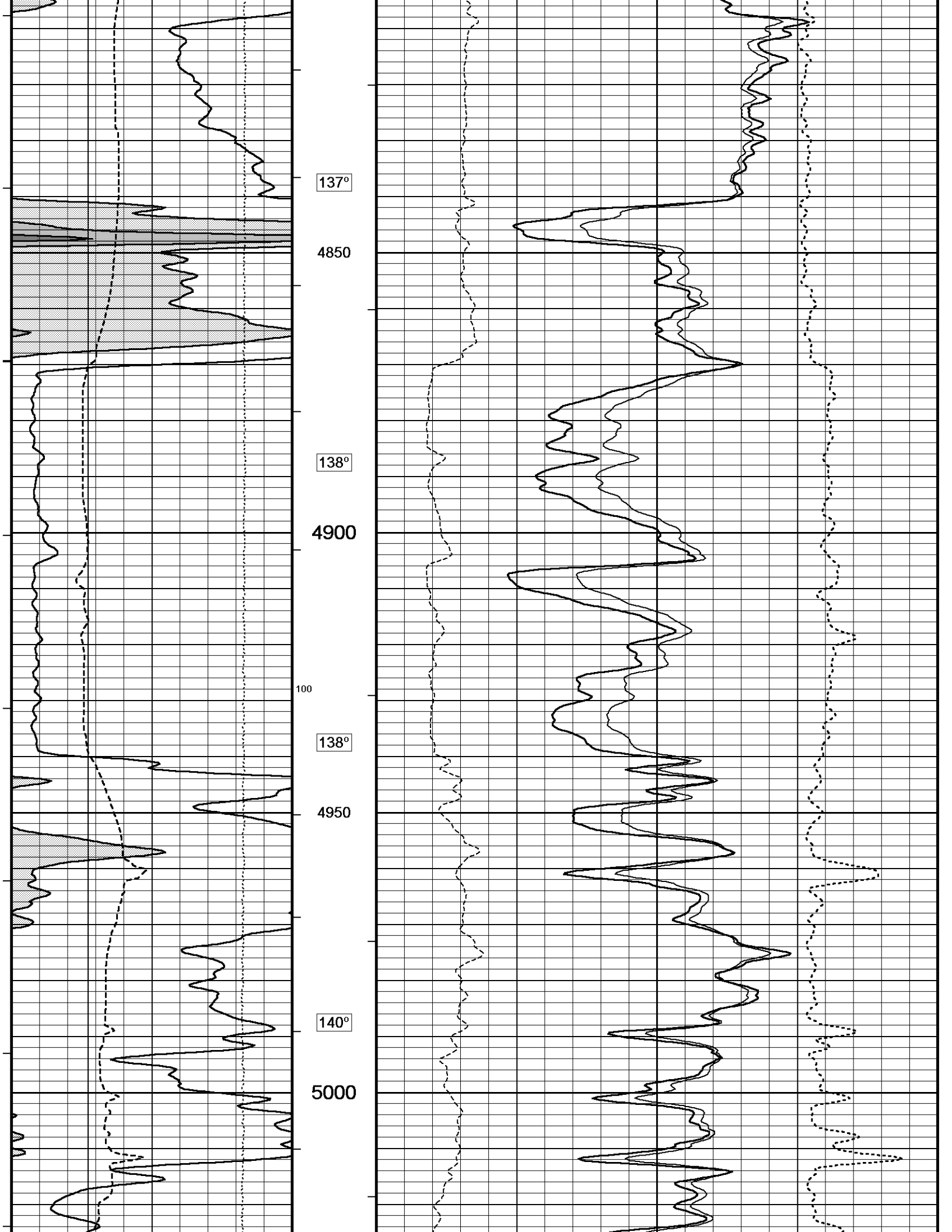

122°
3750
700
123°
3800
124°
3850
124°
3900
300

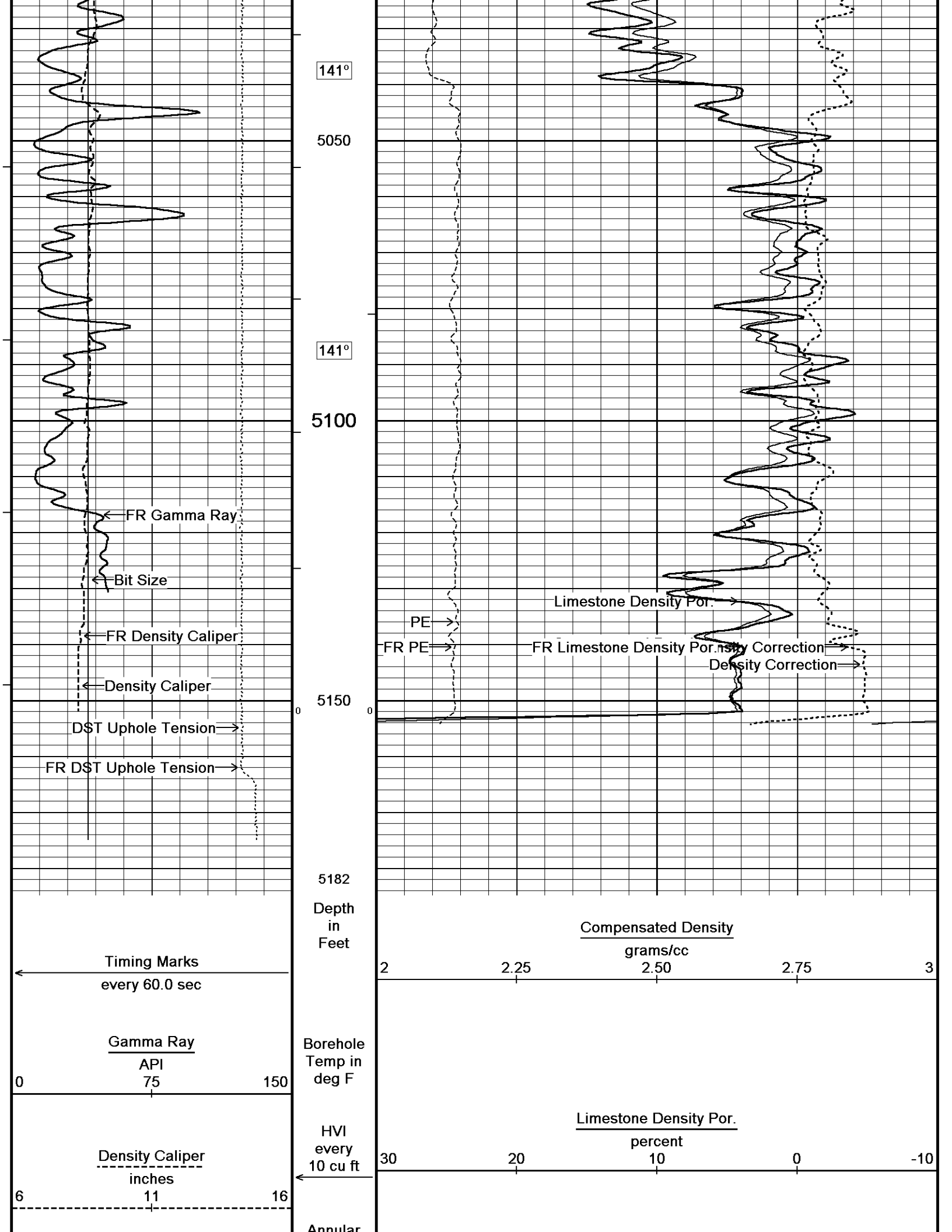

Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
600
125°
3950
PE
Limestone Density Por.
Compensated Density
Density Correction
125°
4000
125°
4050
125°
4100
126°

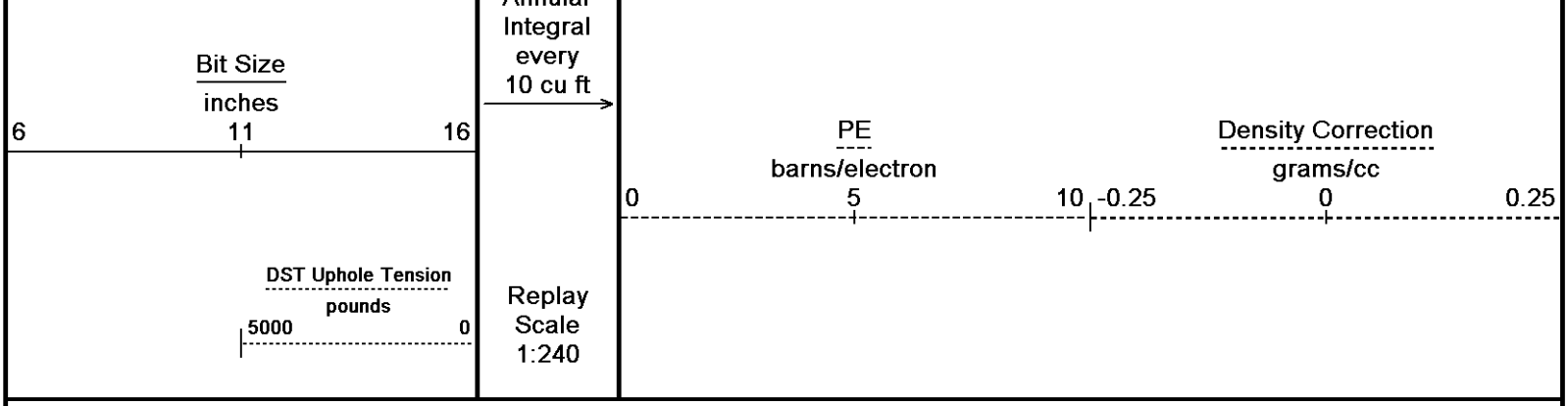

4150
500
127°
4200
127°
4250
127°
4300
127°
200
4350
400
Bit Size
Density Caliper
Gamma Ray
PE
Compensated Density
Density Correction


DST Uphole Tension
127°
4400
130°
4450
300
131°
4500
132°
4550


132°
4600
100
132°
4650
133°
4700
200
134°
4750
136°
4800
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
Limestone Density Por.
PE
Compensated Density
Density Correction


137°
4850
138°
4900
100
138°
4950
140°
5000


141°
5050
141°
5100
FR Gamma Ray
Bit Size
FR Density Caliper
Density Caliper
DST Uphole Tension
FR DST Uphole Tension
0
5150
PE
FR PE
Limestone Density Por.
FR Limestone Density Por.
Density Correction
Density Correction
0
5182
Depth
in
Feet
Timing Marks
every 60.0 sec
Gamma Ray
API
0
75
150
Density Caliper
inches
6
11
16
Borehole
Temp in
deg F
HVI
every
10 cu ft
Annular
Compensated Density
grams/cc
2
2.25
2.50
2.75
3
Limestone Density Por.
percent
30
20
10
0
-10

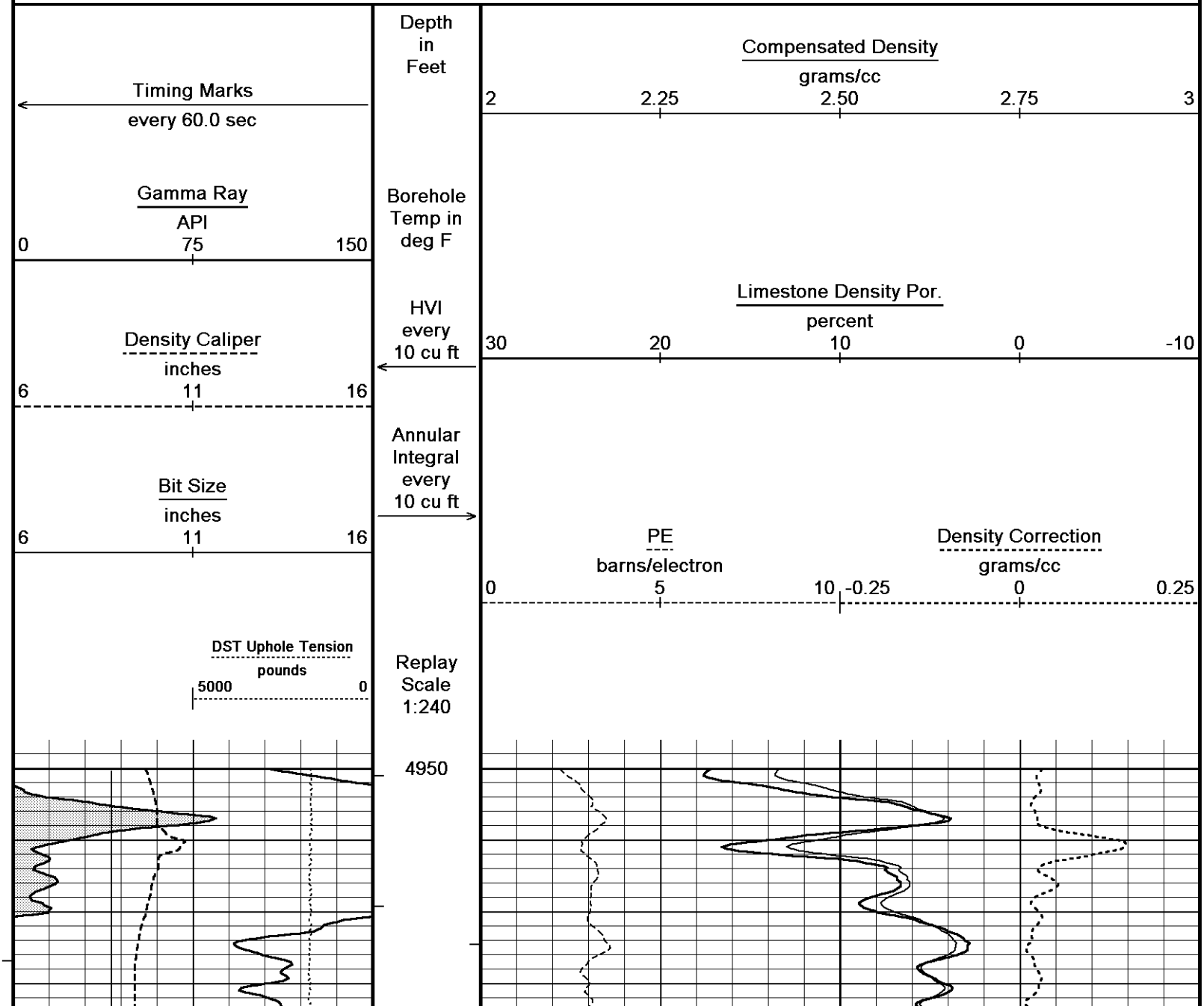


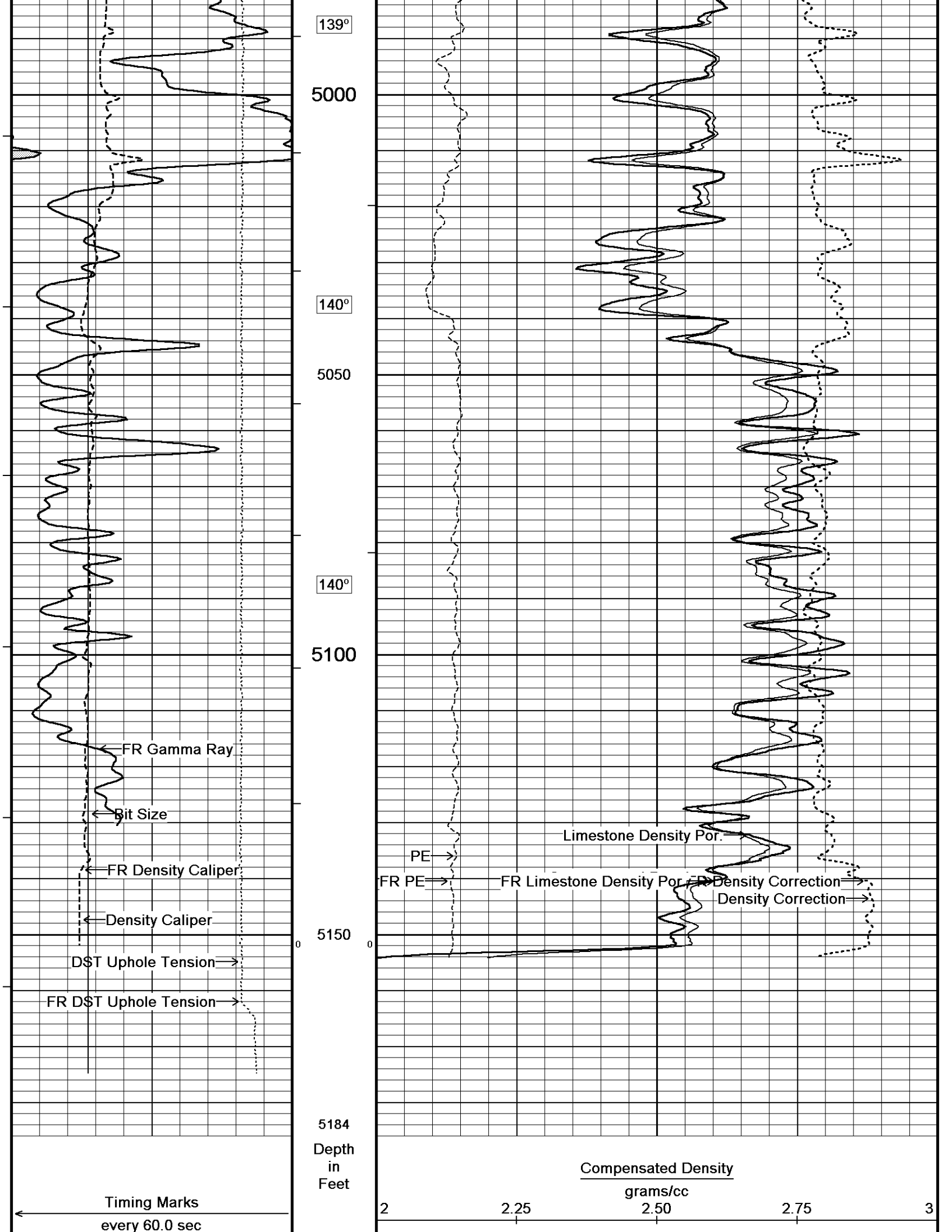
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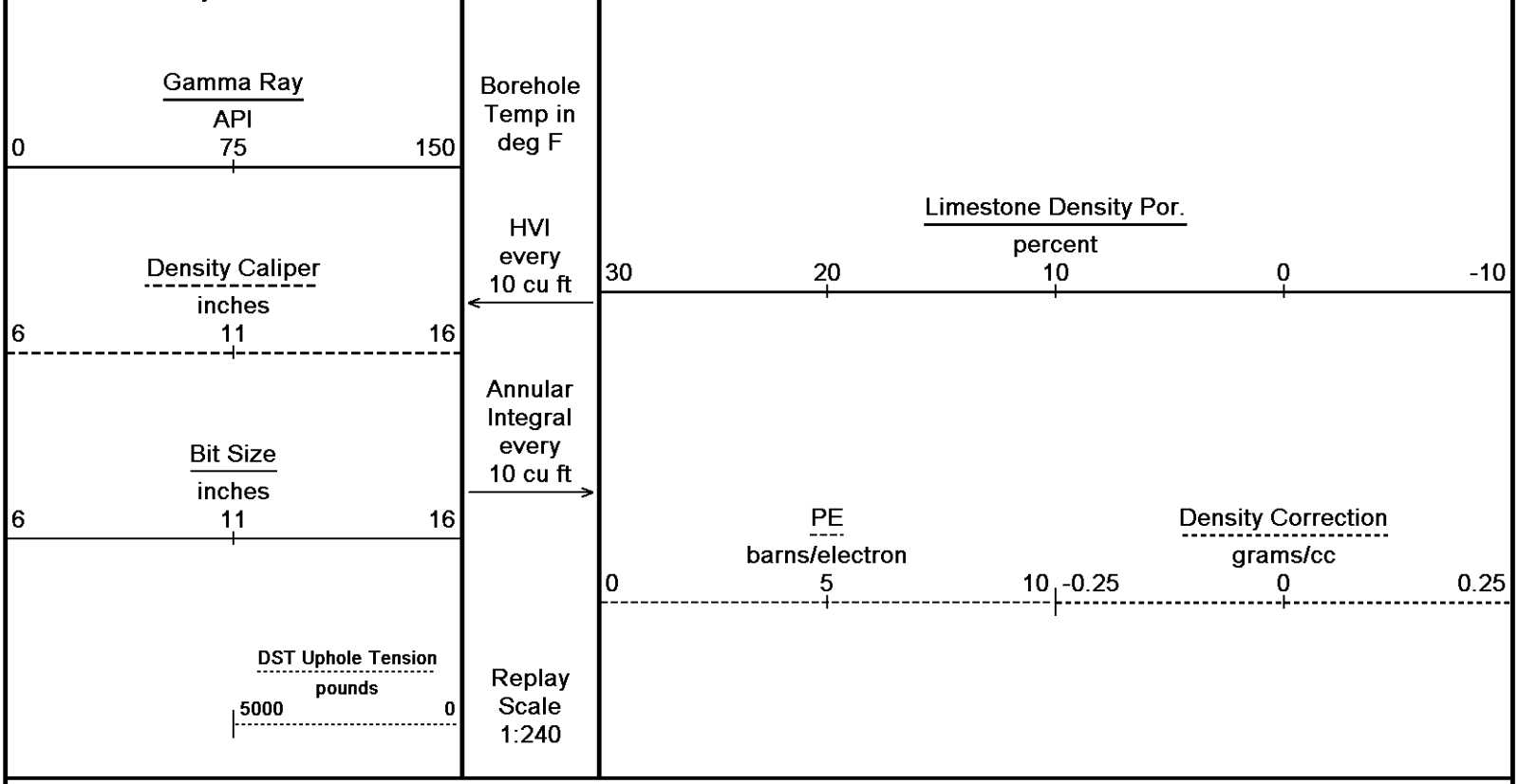
5 INCH MAIN

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 08-FEB-2012 16:24
Filename: C:\Minimus 11_03_4044\Data\SandRidge Ethan ...\SandRidge Ethan John 1-5 SWD_002.dta — Recorded on 08-FEB-2012 12:49
System Versions: Logged with 11.03.4044 Plotted with 11.03.4044




139°
5000
140°
5050
140°
5100
5150
5184
FR Gamma Ray
Bit Size
FR Density Caliper
Density Caliper
DST Uphole Tension
FR DST Uphole Tension
PE
FR PE
Limestone Density Por.
FR Limestone Density Por.
Density Correction
Density Correction
0
0
Depth
in
Feet
Timing Marks
every 60.0 sec
Compensated Density
grams/cc
2
2.25
2.50
2.75
3



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 08-FEB-2012 16:24

Filename: C:\Minimus 11_03_4044\Data\SandRidge Ethan ...\SandRidge Ethan John 1-5 SWD_002.dta — Recorded on 08-FEB-2012 12:49

System Versions: Logged with 11.03.4044 Plotted with 11.03.4044

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\Minimus 11_03_4044\Data\SandRidge Ethan John 1-5 SWD\SandRidge Ethan John 1-5 SWD_003.dta

General Constants All 000

Last Edited on 08-FEB-2012,06:57

General Parameters		
Mud Resistivity	1.190	ohm-metres
Mud Resistivity Temperature	55.000	degrees F
Water Level	0.000	feet
Density/Neutron 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	7.000	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0

Field Calibration on 23-OCT-2011 03:19

Reading No	Measured	Calibrated (lbs)
1	12734.06	0.00
2	13523.27	454.00

Gamma Calibration MCG-D.K 443

Field Calibration on 07-FEB-2012 10:33

	Measured	Calibrated (API)
Background	66	44
Calibrator (Gross)	747	500
Calibrator (Net)	681	456

Gamma Constants MCG-D.K 443

Last Edited on 08-FEB-2012,06:57

Gamma Calibrator Number	GRCC141	
Mud Density	1.07	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG-D.K 443

Field Calibration on 01-FEB-2012 10:26

	Measured	Calibrated (mV)
Reference 1	100.9	100.0
Reference 2	-98.4	-100.0

High Resolution Temperature Calibration MCG-D.K 443

Field Calibration on 12-JAN-2012,09:06

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-D.K 443

Last Edited on

Pre-filter Length	11

Caliper Calibration MML-A 9

Base Calibration on 06-FEB-2012 09:52
Field Calibration on 06-FEB-2012 09:53

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	15071	5.98
2	18450	7.97
3	21808	9.86
4	25812	11.92
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.00	5.98

Micro Normal and Micro Inverse Calibration MML-A 9

Base Calibration on 06-FEB-2012 09:39
Field Check on 06-FEB-2012 09:41

Base Calibration

	Measured		Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.1	59.8	2.6	12.8
Micro Inverse	15.6	78.1	1.7	8.4

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	32.4	32.4
Micro Inverse	16.4	16.4

Micro Normal and Micro Inverse Constants MML-A 9

Last Edited on 06-FEB-2012,09:25

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

Neutron Calibration MDN-A.B 39

Base Calibration on 04-JAN-2012 14:55
Field Check on 01-FEB-2012 10:20

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2756	86	3714	110
Ratio	32.152		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	2384	3432
Ratio	0.695	

Field Check

	Calibrated (cps)	
	2392	3445
Ratio	0.694	

Neutron Constants MDN-A.B 39

Last Edited on 08-FEB-2012,06:58

Neutron Source Id	N-1095	
Neutron Jig Number	NECD117	
Epithermal Neutron	No	
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
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 67

Base Calibration on 06-FEB-2012 10:02
Field Check on 06-FEB-2012 10:09

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	959.8	126.8
Base Check		280.8
Field Check		280.8

FE Constants MFE-A.A 67

Last Edited on 08-FEB-2012,06:59

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Caliper Source for FE correction	Density Caliper	
Caliper Value for FE correction	N/A	inches
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Stand-off	0.5	inches

Induction Calibration MAI-A.A 188

Base Calibration on 04-JAN-2012,13:31
Field Check on 01-FEB-2012 09:56

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	16.9	470.2	9.3	966.2
2	6.4	377.1	7.6	821.4
3	3.9	257.8	5.2	566.0
4	1.7	135.1	2.6	279.2

Array Temperature 66.3 Deg F

Channel	Base Check (mmho/m) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High
1	13.5	3868.4	13.5	3867.8
2	30.0	3585.1	30.0	3584.8
3	27.9	3079.3	27.9	3079.1
4	19.8	2047.4	19.8	2047.2
Deep	17.2	1955.7	17.2	1955.6
Medium	40.4	4115.2	40.3	4115.0
Shallow	44.8	5369.8	44.7	5369.2
Array Temperature		65.2		65.2 Deg F

Induction Constants MAI-A.A 188

Last Edited on 08-FEB-2012,06:59

Induction Model	RtAP-WBM	
Caliper for Borehole Corr.	Density Caliper	
Hole Size for Borehole Correction	N/A	inches
Tool Centred	No	
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
Borehole Corr. Rm Source	Temperature Corr	
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

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	

High Resolution Temperature Calibration MAI-A.A 188

Field Calibration on 12-AUG-2011,21:41

	Measured	Calibrated(Deg F)
Lower	32.00	32.00
Upper	68.00	68.00

High Resolution Temperature Constants MAI-A.A 188

Last Edited on 21-JUN-2011,19:05

Pre-filter Length	11

Caliper Calibration MPD-B 65

Base Calibration on 06-FEB-2012 15:42
Field Calibration on 06-FEB-2012 15:43

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14246	3.99
2	22911	5.98
3	31473	7.97
4	39776	9.86
5	48992	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.96	5.98

Photo Density Calibration MPD-B 65

Base Calibration on 06-FEB-2012 16:03
Field Check on 06-FEB-2012 16:19

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	58421	27705	59556	30836
Reference 2	23654	2410	24941	2541

Field Check at Base

1233.9	1179.6

Field Check

1228.8	1176.4

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	226	1097		
Reference 1	21385	58213	0.370	0.371
Reference 2	6241	23505	0.268	0.272

Field Check at Base		
	225.7	1097.3

Field Check		
	223.7	1089.3

Density Constants MPD-B 65

Last Edited on 08-FEB-2012,06:59

Density Source Id	P57072B	
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	1.07	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 11_03_4044\Data\SandRidge Ethan John 1-5 SWD\SandRidge Ethan John 1-5 SWD_003.dta

MCB-A 11B Tension Cablehead
MCB-A 162 LG: 2.18 ft WT: 19.8 lb OD: 2.24 in

SHA-F Compact Swivel Head Adaptor
SHA-F 88 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in

Compact Comms Gamma
MCG-D.K 443 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 9 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron
MDN-A.B 39 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 65 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D.A Compact Knuckle Joint



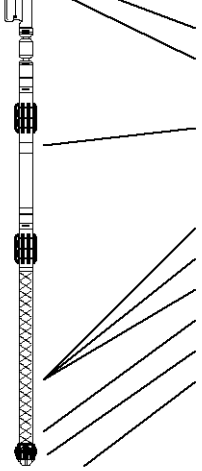
45.04 ft	GRGC - Gamma Ray
42.13 ft	CGXT - MCG External Temperature
35.41 ft	MINV - Micro-inverse
35.41 ft	MNRL - Micro-normal
36.40 ft	MLTC - MML Caliper
30.61 ft	NPRL - Limestone Neutron Por.
23.37 ft	CLDC - Density Caliper
23.37 ft	AVOL - Annular Volume
23.37 ft	HVOL - Hole Volume
21.44 ft	DEN - Compensated Density
21.44 ft	DCOR - Density Correction

SKJ-D.A 91 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-A.A 67 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 188 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 55.24 ft Weight: 454.2 lb



21.44 ft	DCOR - Density Correction
21.44 ft	DPRL - Limestone Density Por.
21.38 ft	PDPE - PE
13.72 ft	FEFE - Shallow FE
3.34 ft	R40O - Array Ind. One Res 40
3.34 ft	RTAO - Array Ind. One Res Rt
3.34 ft	R60O - Array Ind. One Res 60
0.23 ft	SPCG - Spontaneous Potential
Tool Zero	(0.13ft from bottom)
-0.13 ft	SMTU - DST Uphole Tension

All measurements relative to tool zero.

COMPANY	SANDRIDGE EXPL. & PRODUCTION LLC
WELL	ETHAN JOHN # 1-5 SWD
FIELD	WALDRON WEST
PROVINCE/COUNTY	HARPER
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	1381.00	feet	First Reading	5139.00	feet
Elevation Drill Floor	1379.00	feet	Depth Driller	5178.00	feet
Elevation Ground Level	1361.00	feet	Depth Logger	5162.00	feet

Weatherford®

COMPACT PHOTO DENSITY COMPENSATED NEUTRON MICRORESISTIVITY LOG

40 Years of Wireline 1970 2010