COMPACT TRIPLE COMBO
QUICKLOOK
LOG

Weatherford®

COMPANY	BILL BARRETT CORPORATION
WELL	KAUFMAN 23B-24-692
FIELD	MAMM CREEK
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO
LOCATION	SHL: 1771' FSL & 2410' FEL
	BHL: 1795' FSL & 1970' FWL

40 Years of Wireline 1970 2010

SEC	TWP	RGE	Other Services
24	6S	92W	

API Number 05-045-19646
Permit Number

Permanent Datum G.L., Elevation 5843 feet
Log Measured From KB
Drilling Measured From K.B. @ 23 FT.

Elevations:	feet
KB	5866.00
DF	5866.00
GL	5843.00

Date	10-AUG-2011			
Run Number	ONE			
Depth Driller	7633.00	feet		
Depth Logger	7632.00	feet		
First Reading	7629.00			
Last Reading	852.00			
Casing Driller	853.00	feet		
Casing Logger	852.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	LSND			
Density / Viscosity	10.50 lb/USg	50.00 CP		
PH / Fluid Loss	9.80	4.00 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	2.72 @ 75.0	ohm-m		
Rmf @ Measured Temp	2.17 @ 75.0	ohm-m		
Rmc @ Measured Temp	3.26 @ 75.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	1.11 @188.0	ohm-m		
Time Since Circulation	5 HOURS			
Max Recorded Temp	188.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13173	GD JCT		
Recorded By	M.RICHINS			
Witnessed By	C.CROW			

BOREHOLE RECORD

Last Edited: 11-AUG-2011 05:32

Bit Size inches	Depth From feet	Depth To feet
8.750	853.00	5692.00
7.880	5692.00	7633.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	853.00	36.00

REMARKS

LOGGING SOFTWARE USED: 11.03.4644

TOOLS: SHA, MCG, MDN, MPD, SKJ, MFE AND MAI RAN IN COMBINATION.

HARDWARE: MPD: 8 INCH PROFILE PLATE USED.
TWO 0.5 INCH STANDOFFS USED ON INDUCTION.
DUAL BOWSPRING USED ON NEUTRON.

2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TIGHT PULLS, BOREHOLE SIZE, AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.92" (9 5/8", 36 LB/FT CASING).

8.75 INCH BIT CHANGE AT 5692 FT

8.75 INCH BIT CHANGE AT 3052 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2740 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1990 CU.FT.

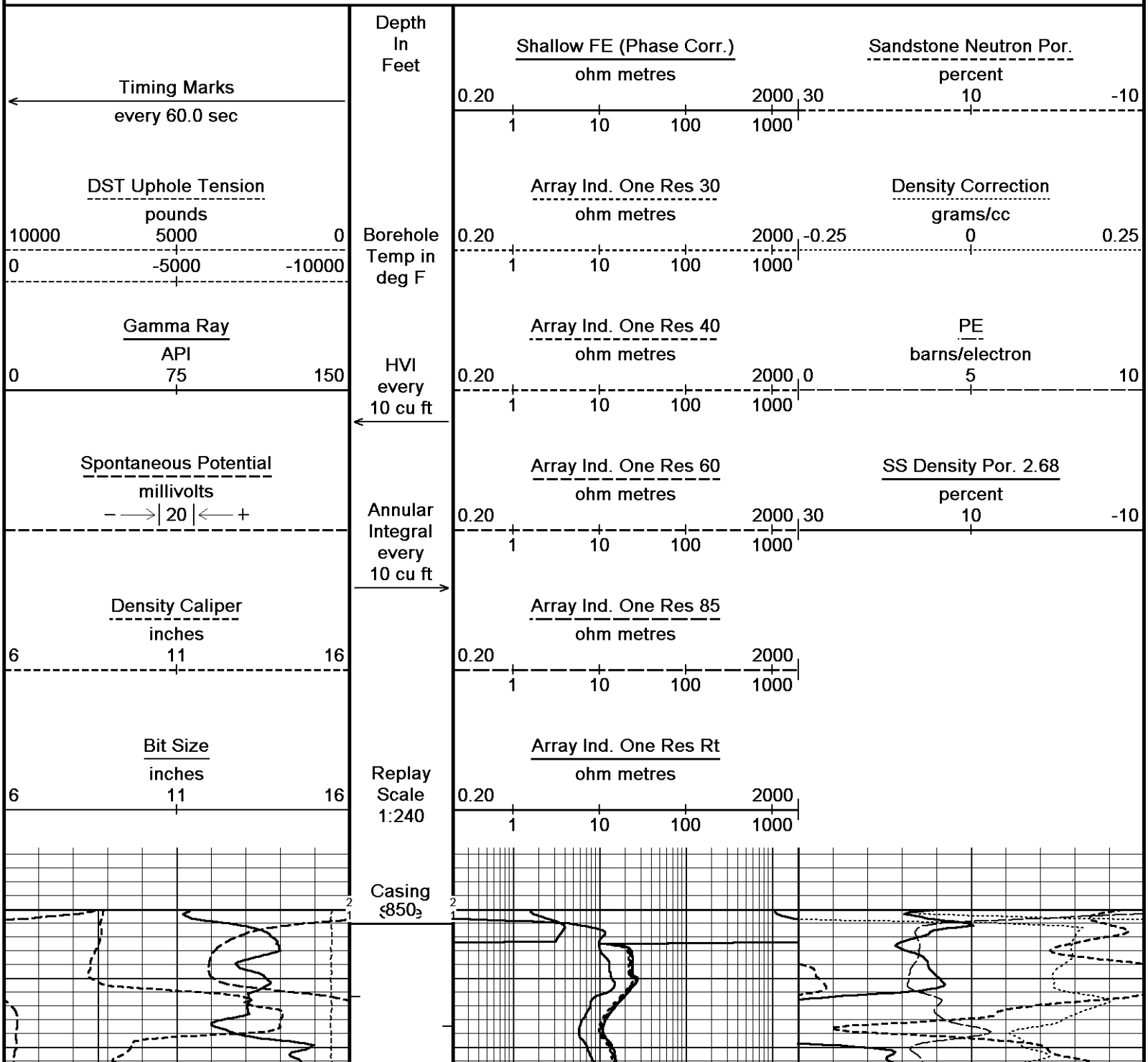
SERVICE ORDER: # 3532395

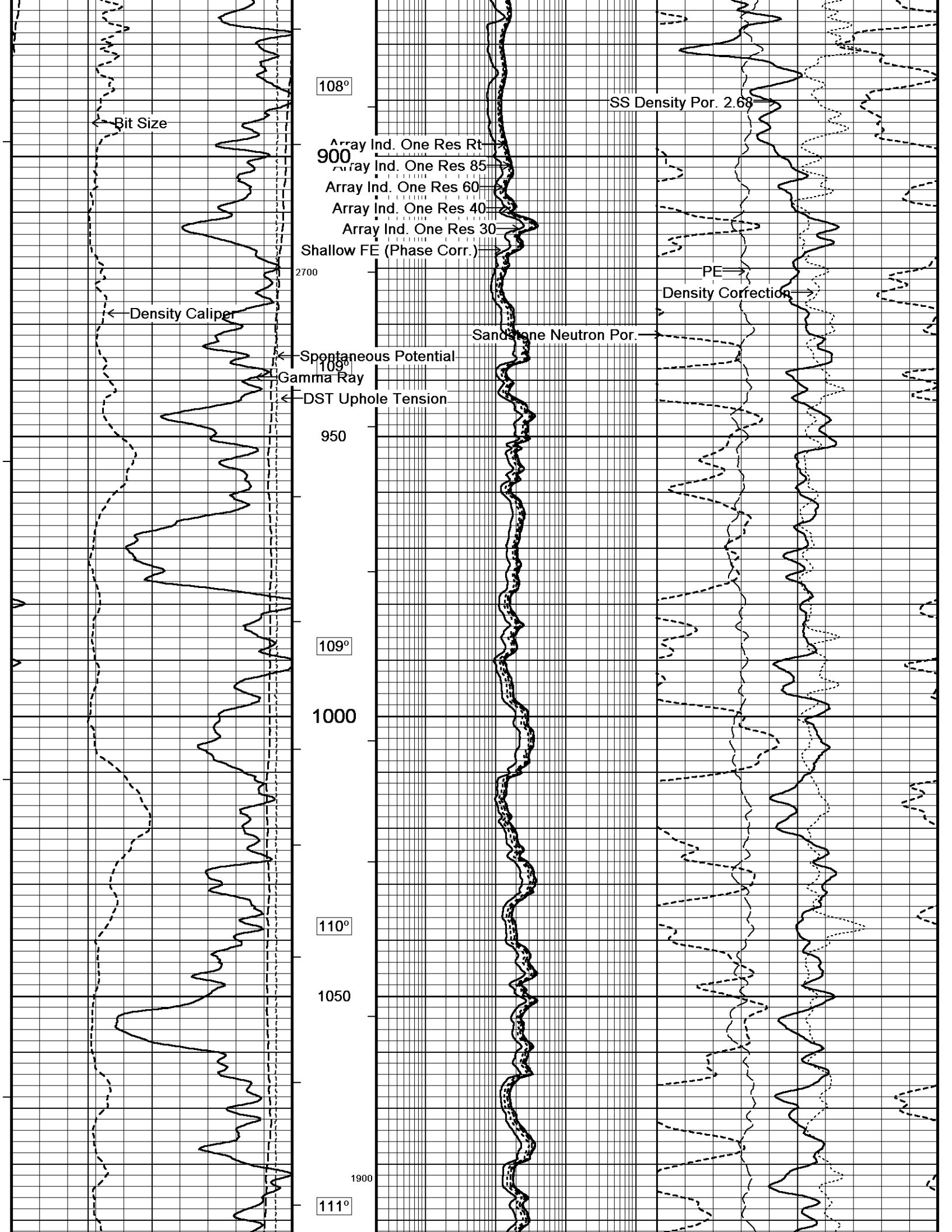
RIG: PATTERSON #307

5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\LOGS\Bill Barrett\Kaufman 23B-24-692\MAIN.dta
System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 11.03.4044

Plotted on 11-AUG-2011 10:05
Recorded on 11-AUG-2011 07:05

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Bit Size
900
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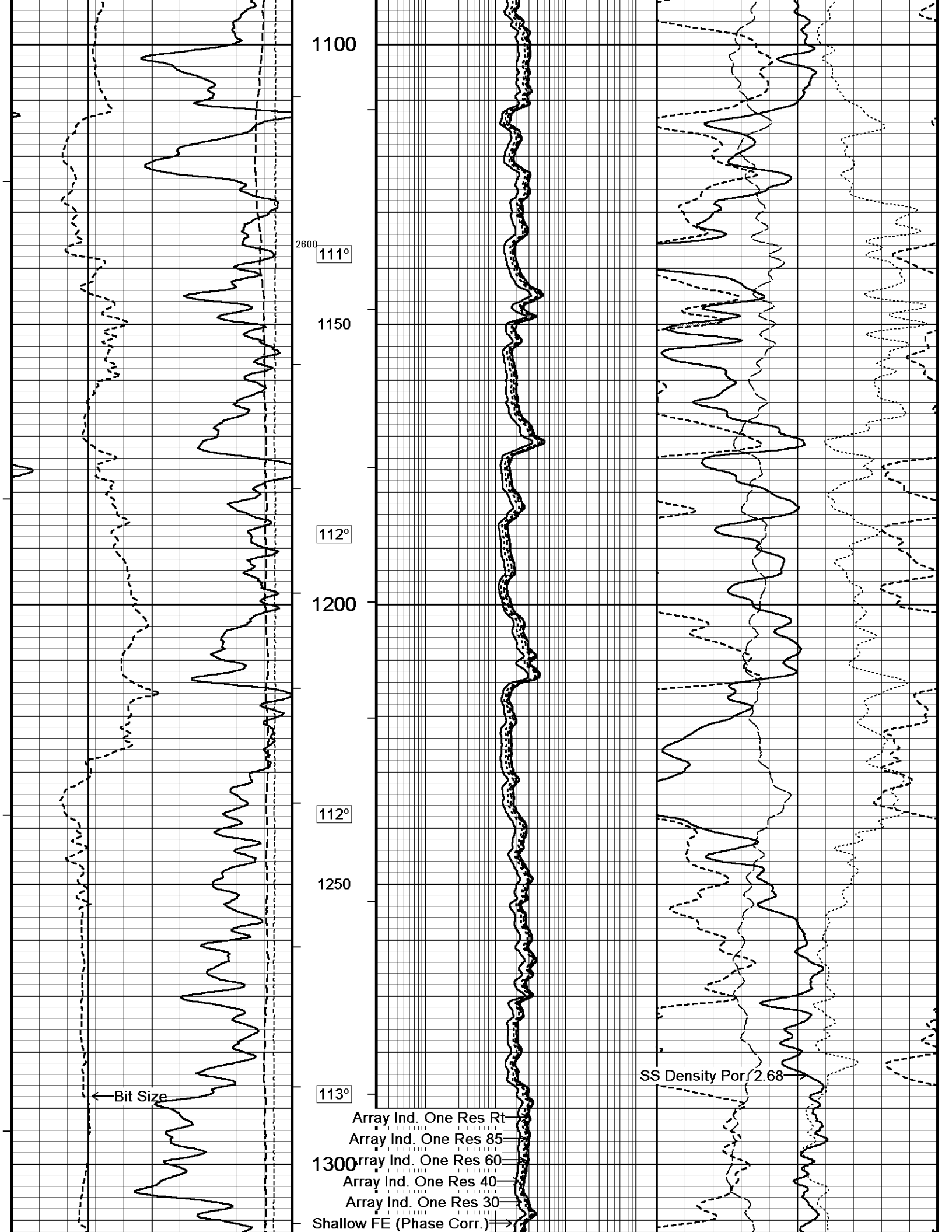
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
2700
Density Caliper
Spontaneous Potential
109°
Gamma Ray
DST Uphole Tension
950
109°
1000
110°
1050
1900
111°
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.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2600
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1150
112°
1200
112°
1250
113°
1300
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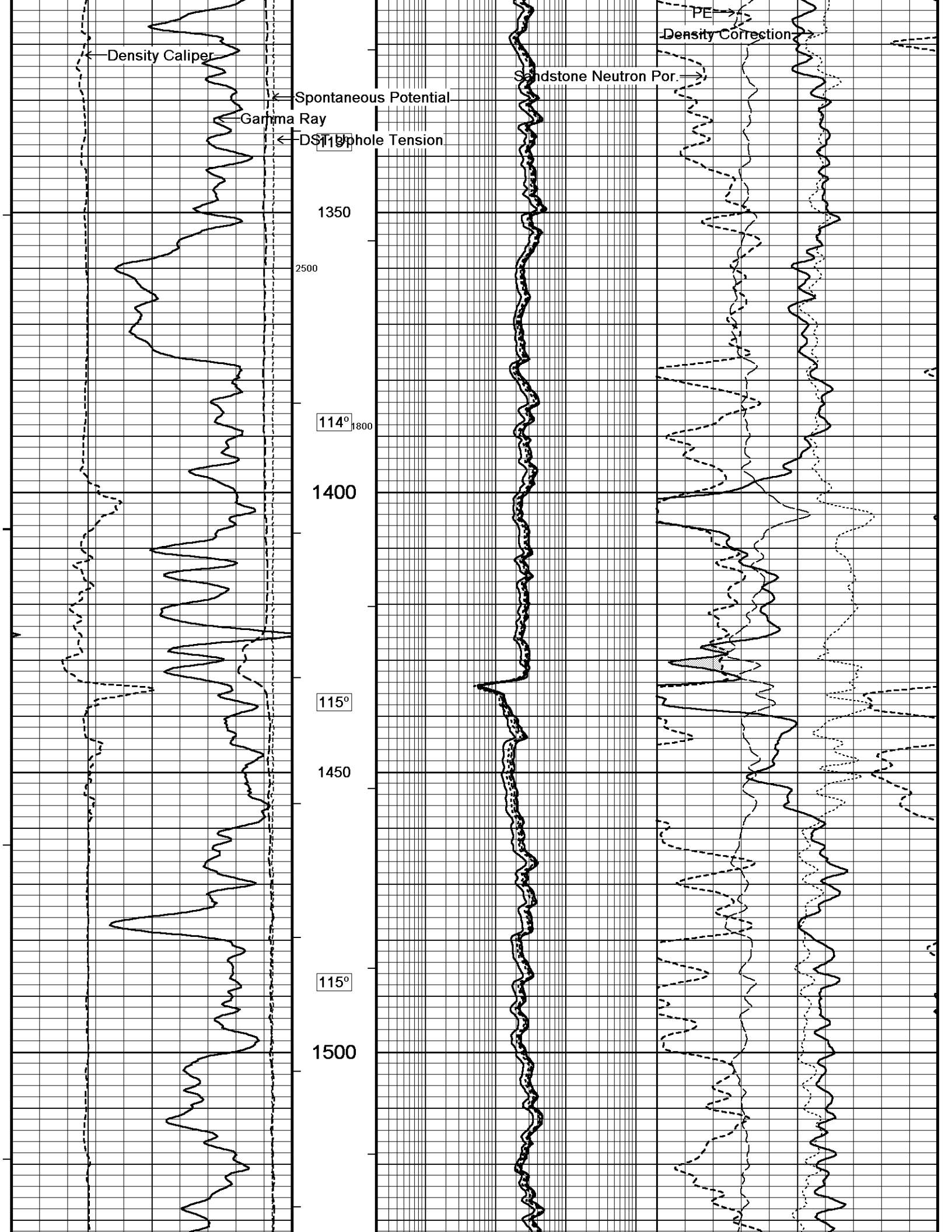
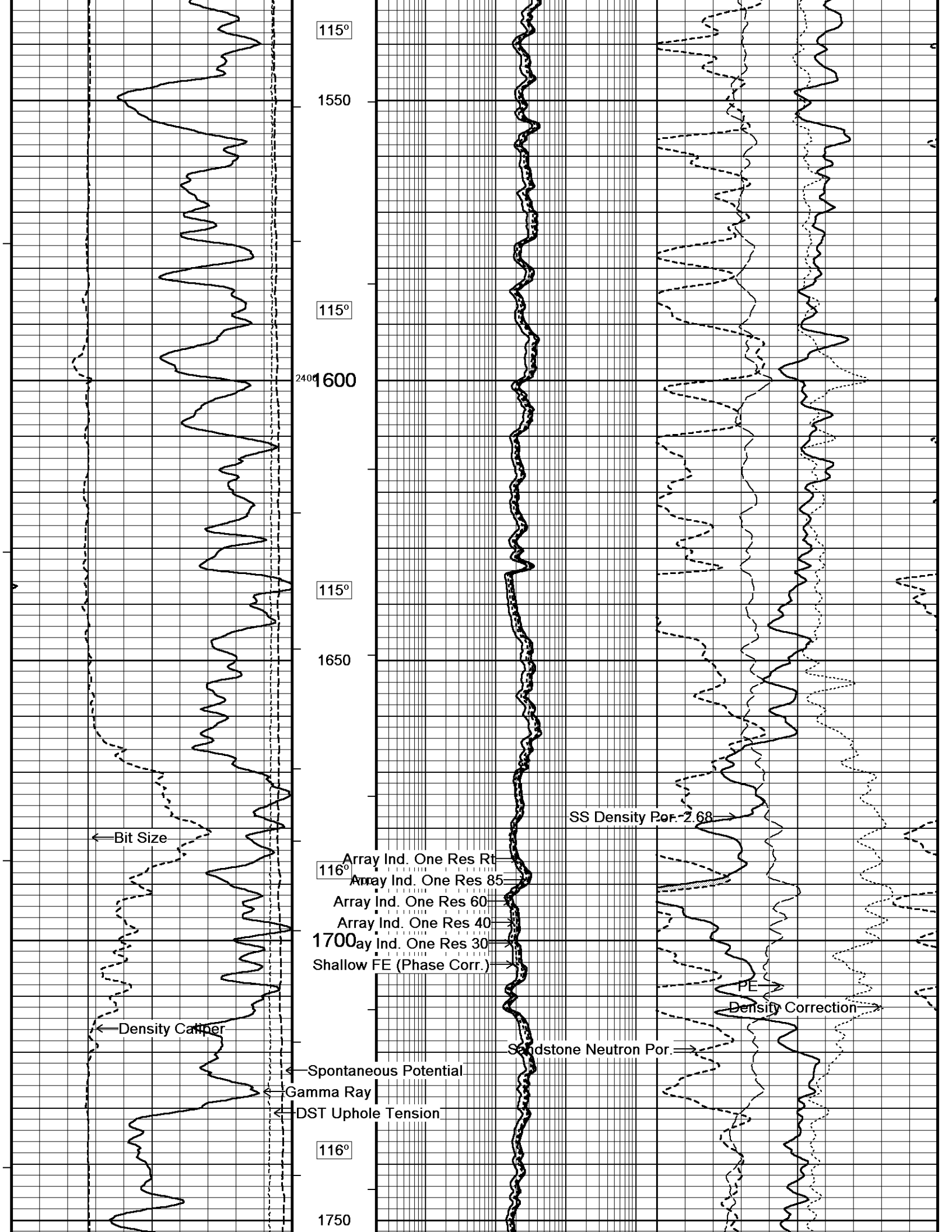
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por 2.68


Density Caliper
Spontaneous Potential
Gamma Ray
DST Borehole Tension
PE
Density Correction
Sandstone Neutron Por
1350
2500
114°
1800
1400
115°
1450
115°
1500


115°
1550
115°
2400
1600
115°
1650
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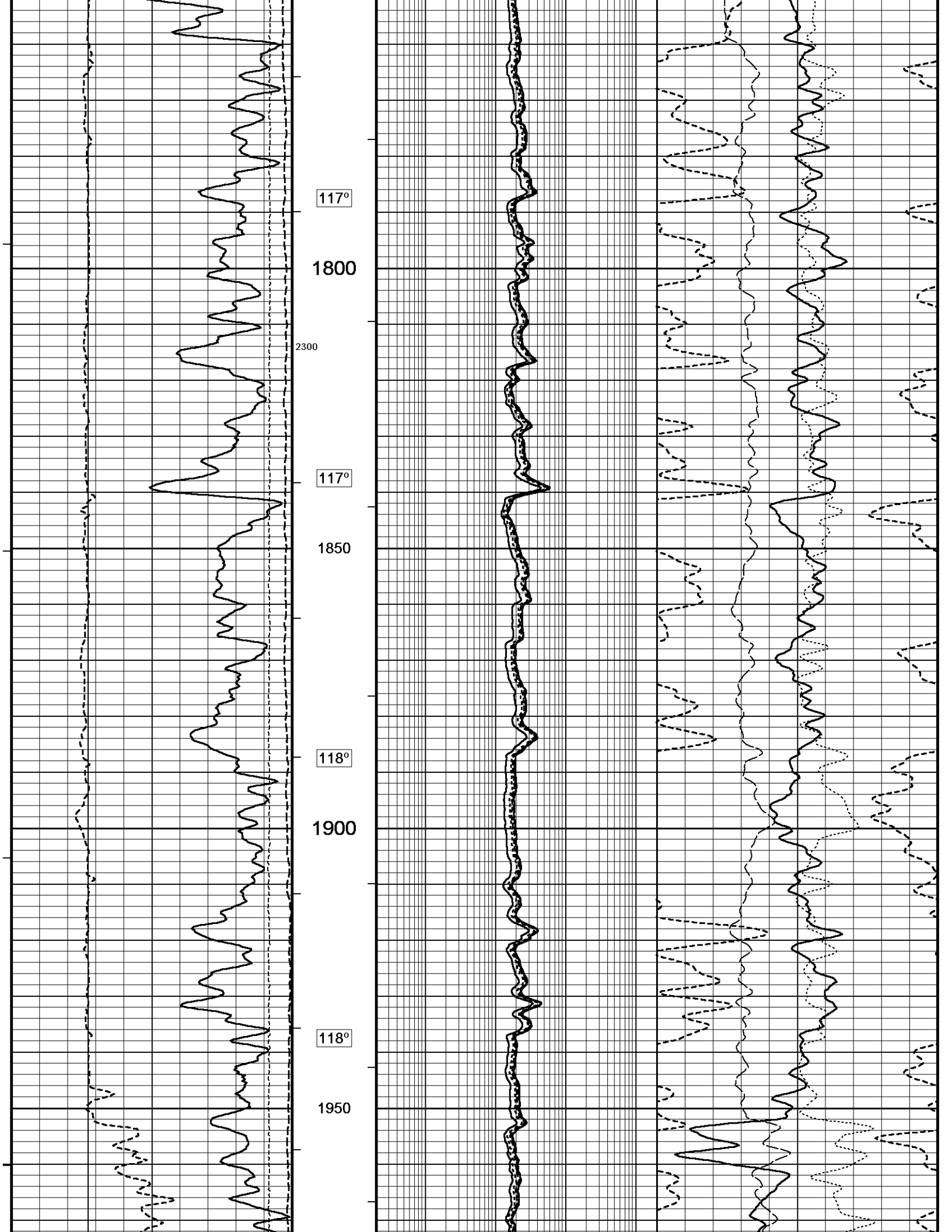
Bit Size
Array Ind. One Res Rt
116°
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
1700
ay Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
116°
1750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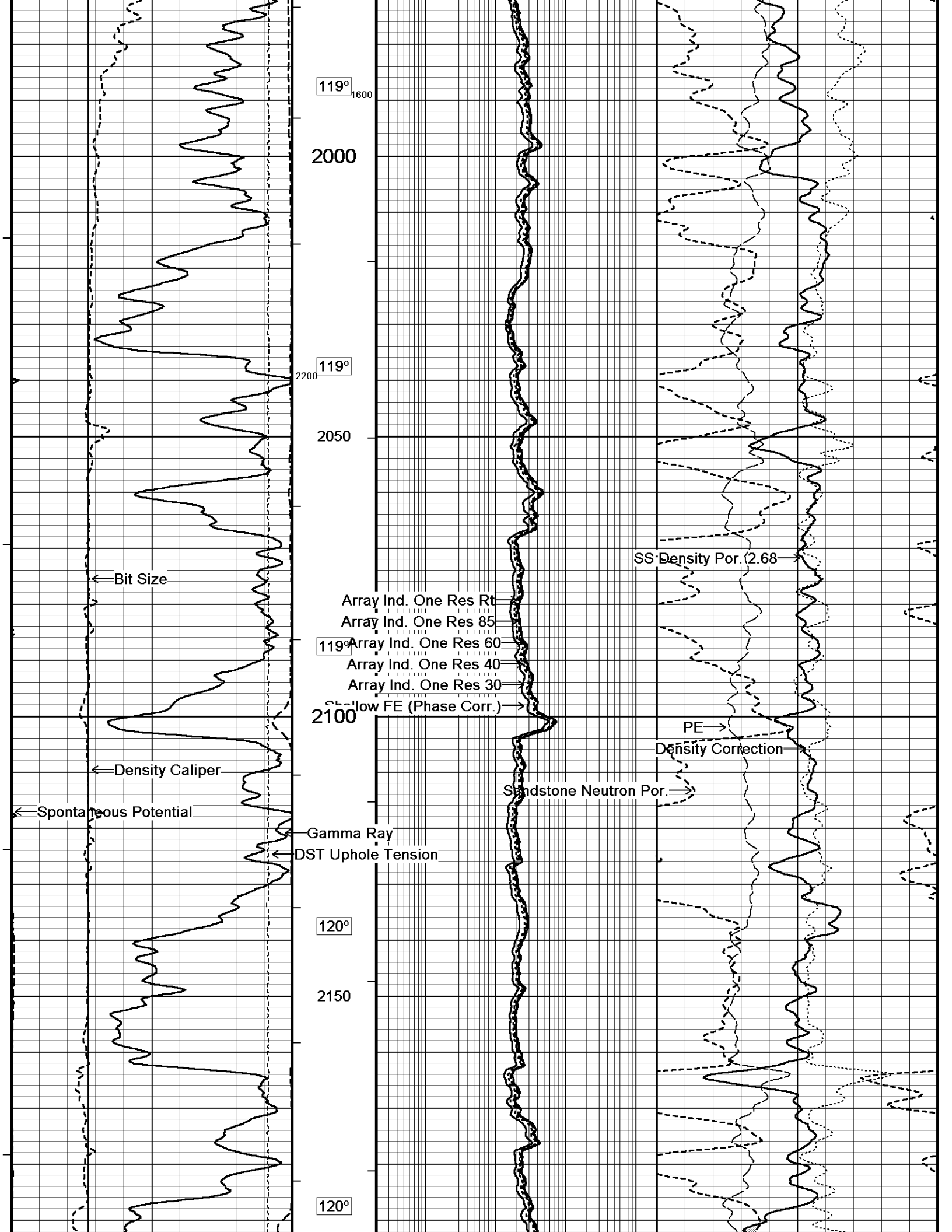
1800
2300
117°
1850
118°
1900
118°
1950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1600
2000
119°
2200
2050
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Array Ind. One Res 85
119°
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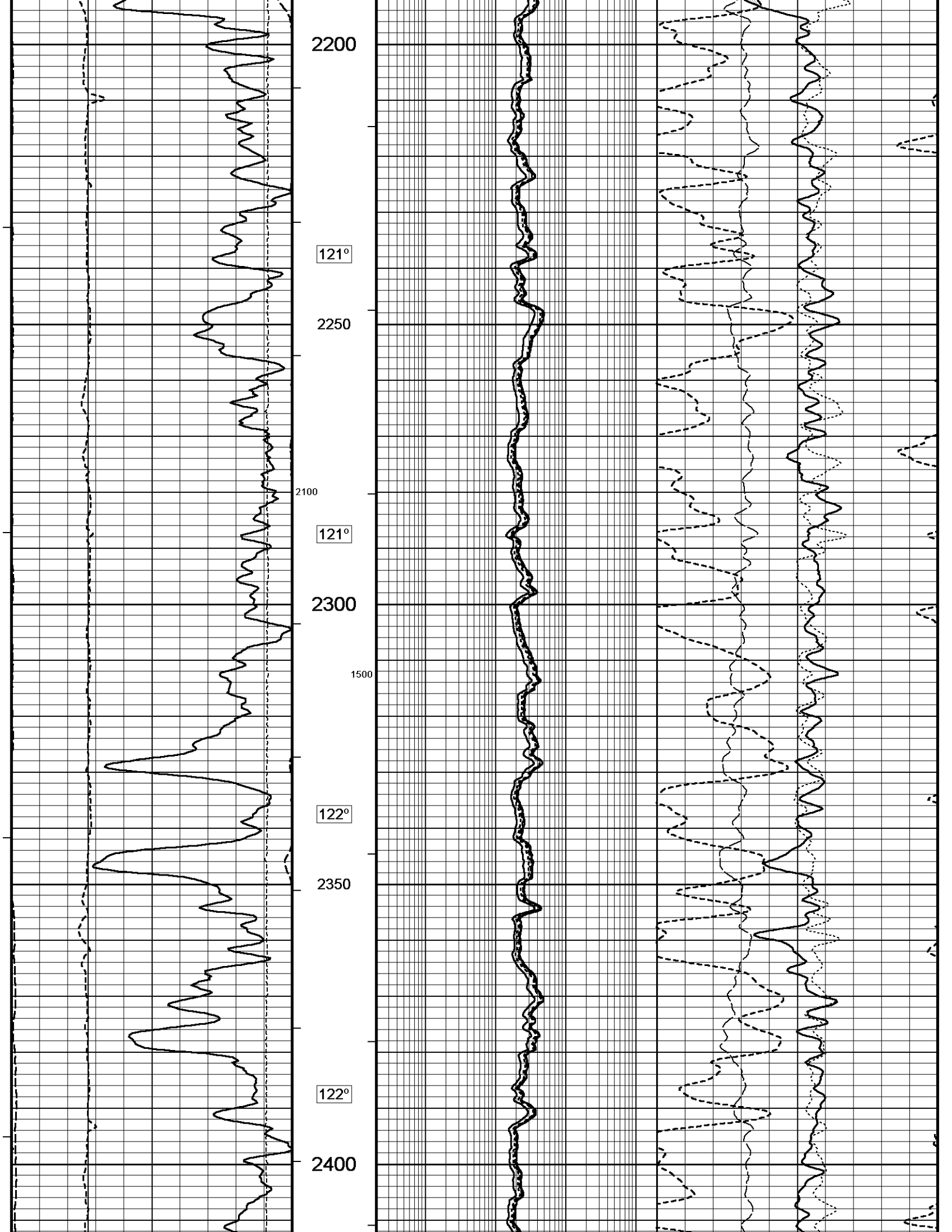
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
2100
SS Density Por. (2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
120°
2150
120°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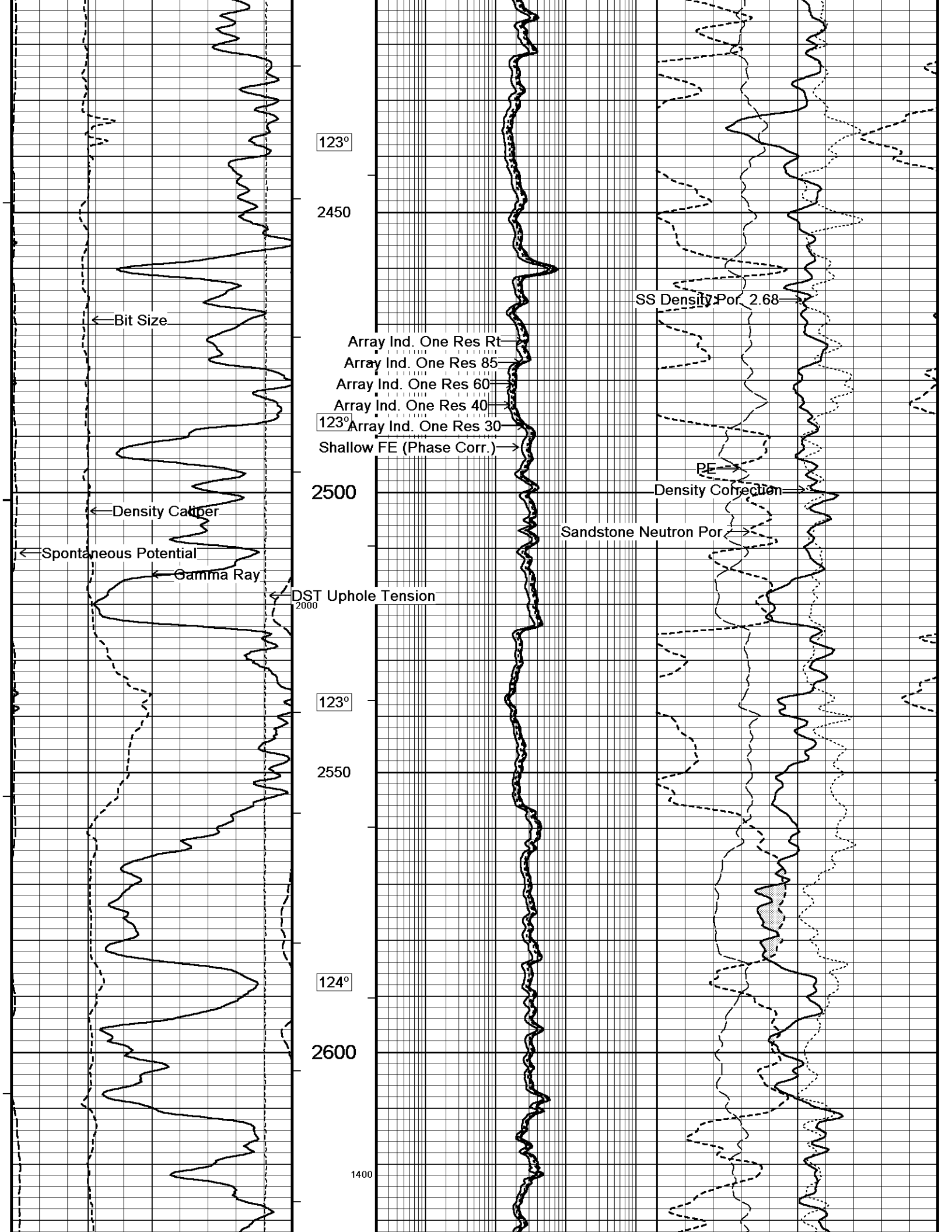
2250
2100
121°
2300
1500
122°
2350
122°
2400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2450
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Bit Size
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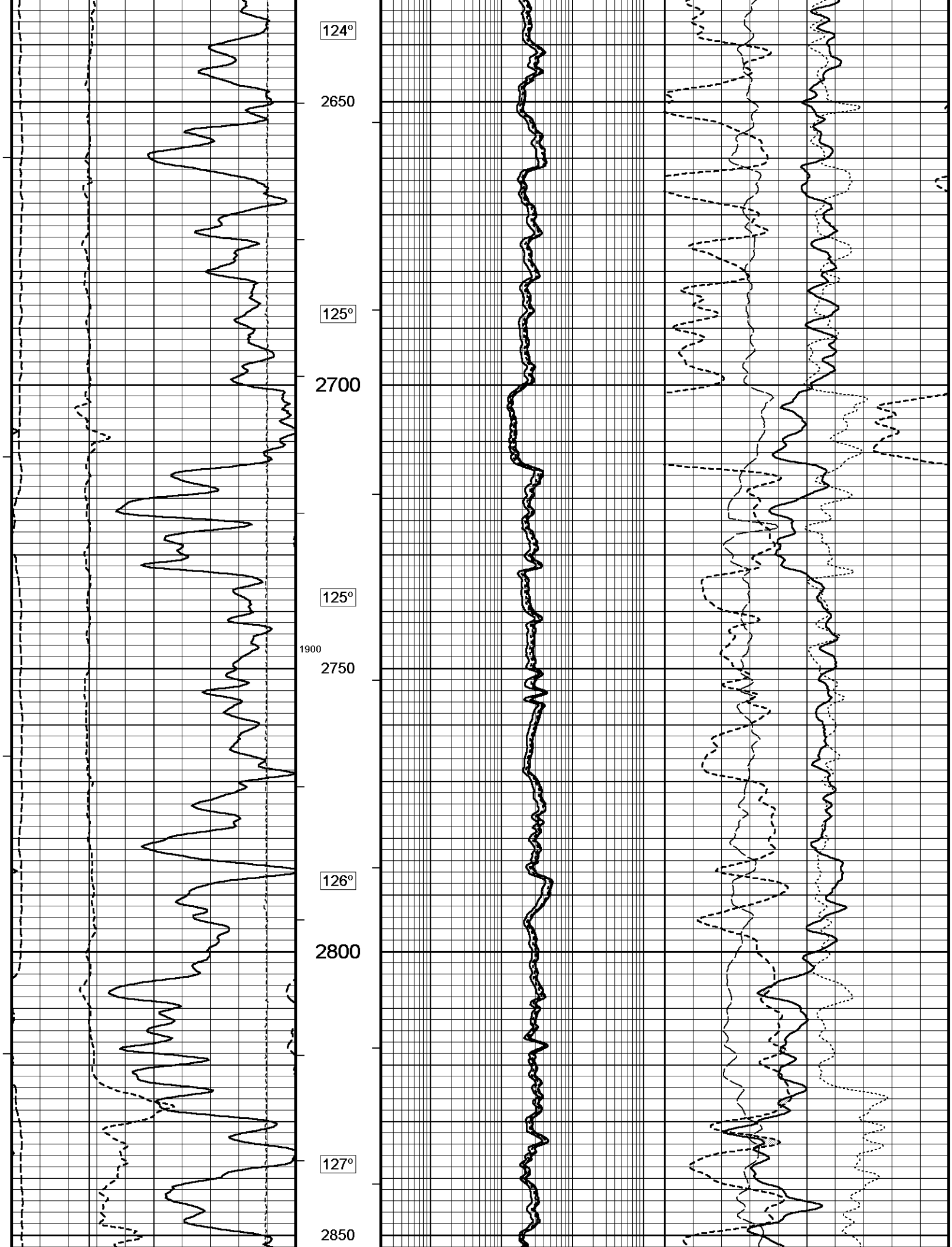
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
123°
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
2500
Density Correction
Density Caliper
Sandstone Neutron Por
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2000
123°
2550
124°
2600
1400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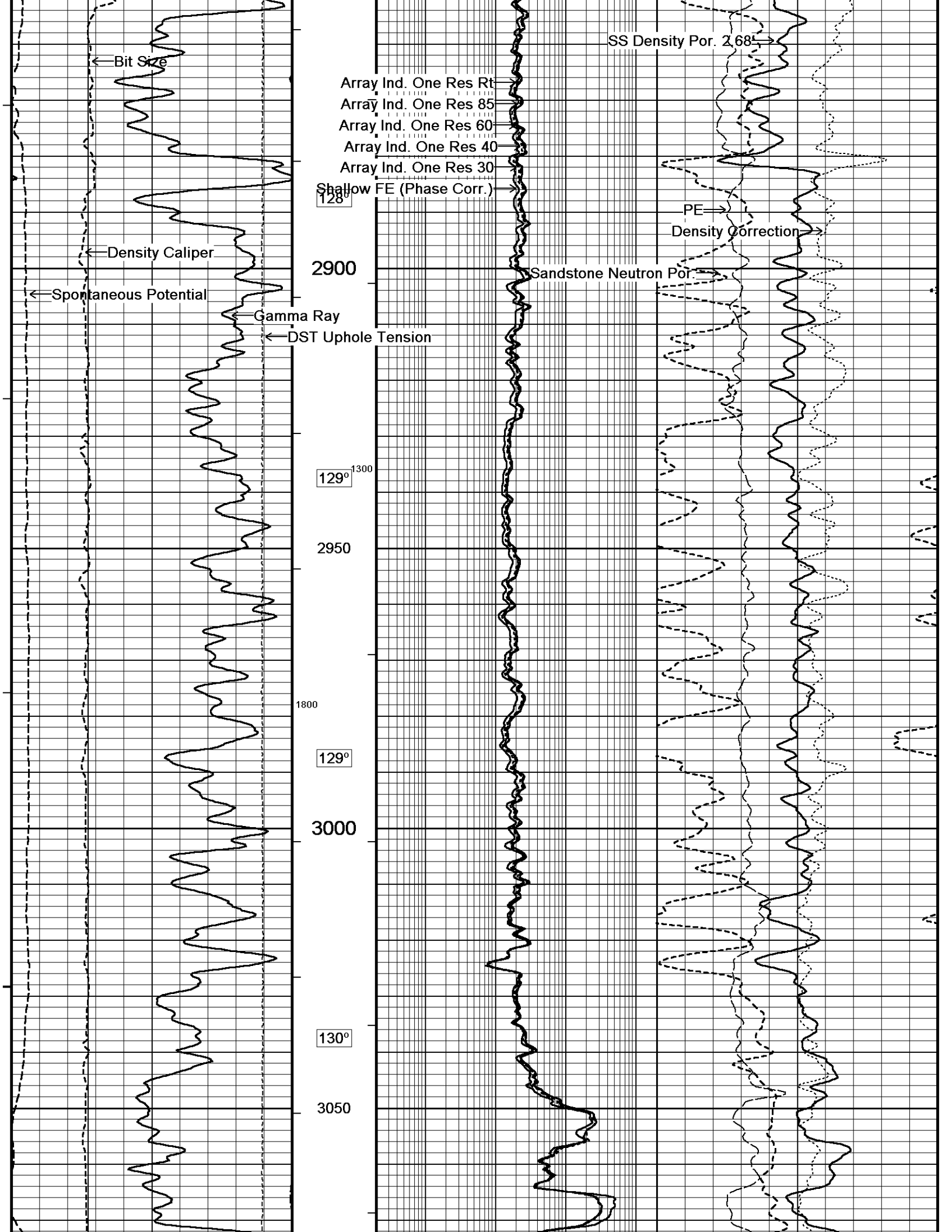
2700
125°
1900
2750
126°
2800
127°
2850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Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
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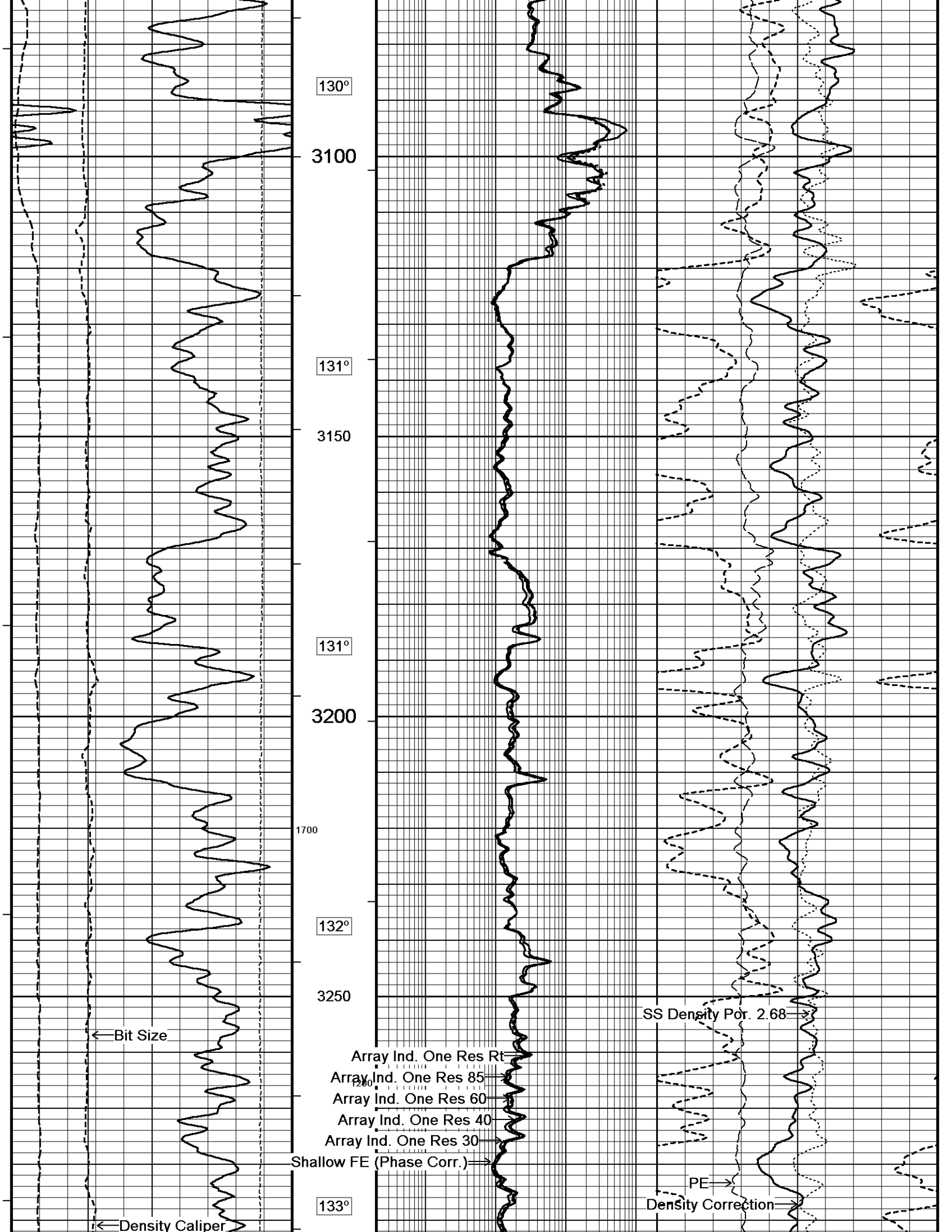
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por
128°
129°
129°
130°
2900
2950
3000
3050
1300
1800


130°
3100
131°
3150
131°
3200
1700
132°
3250
133°
←Bit Size
←Density Caliper
Array Ind. One Res Rt
Array Ind. One Res 85
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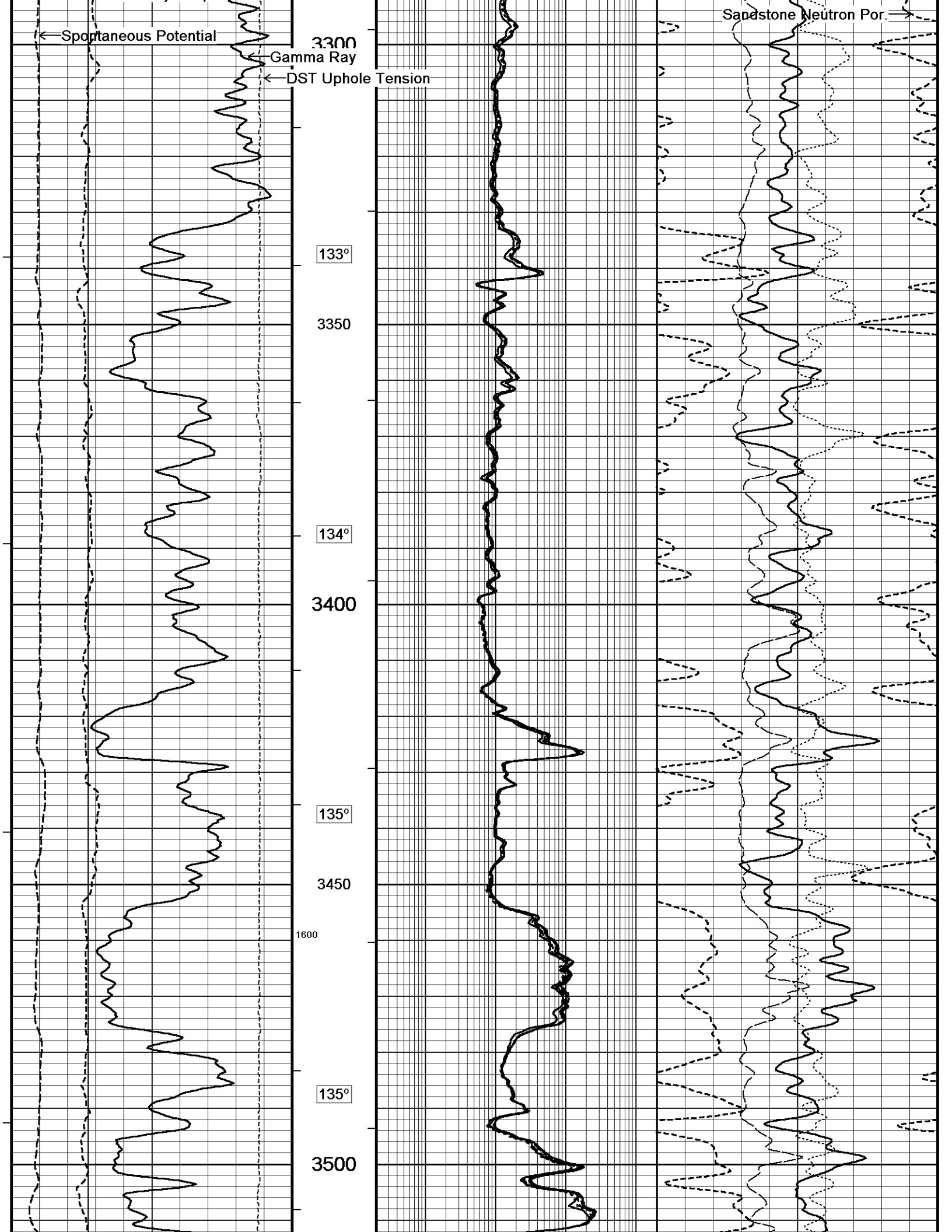
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68→
PE→
Density Correction→


Spontaneous Potential
Gamma Ray
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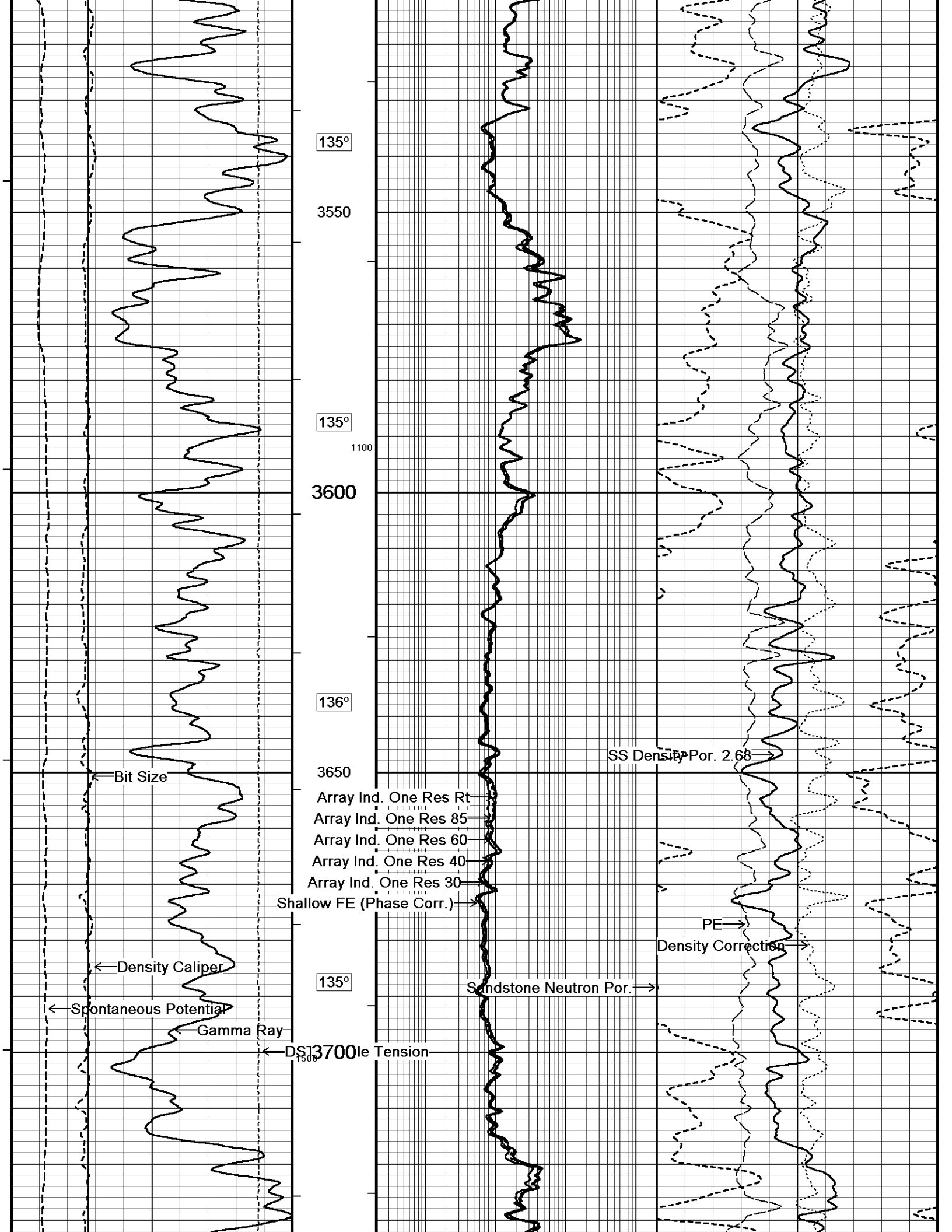
3350
134°
3400
135°
3450
1600
135°
3500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3550
135°
1100
3600
136°
3650
135°
3700
1500
Bit Size
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Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DS
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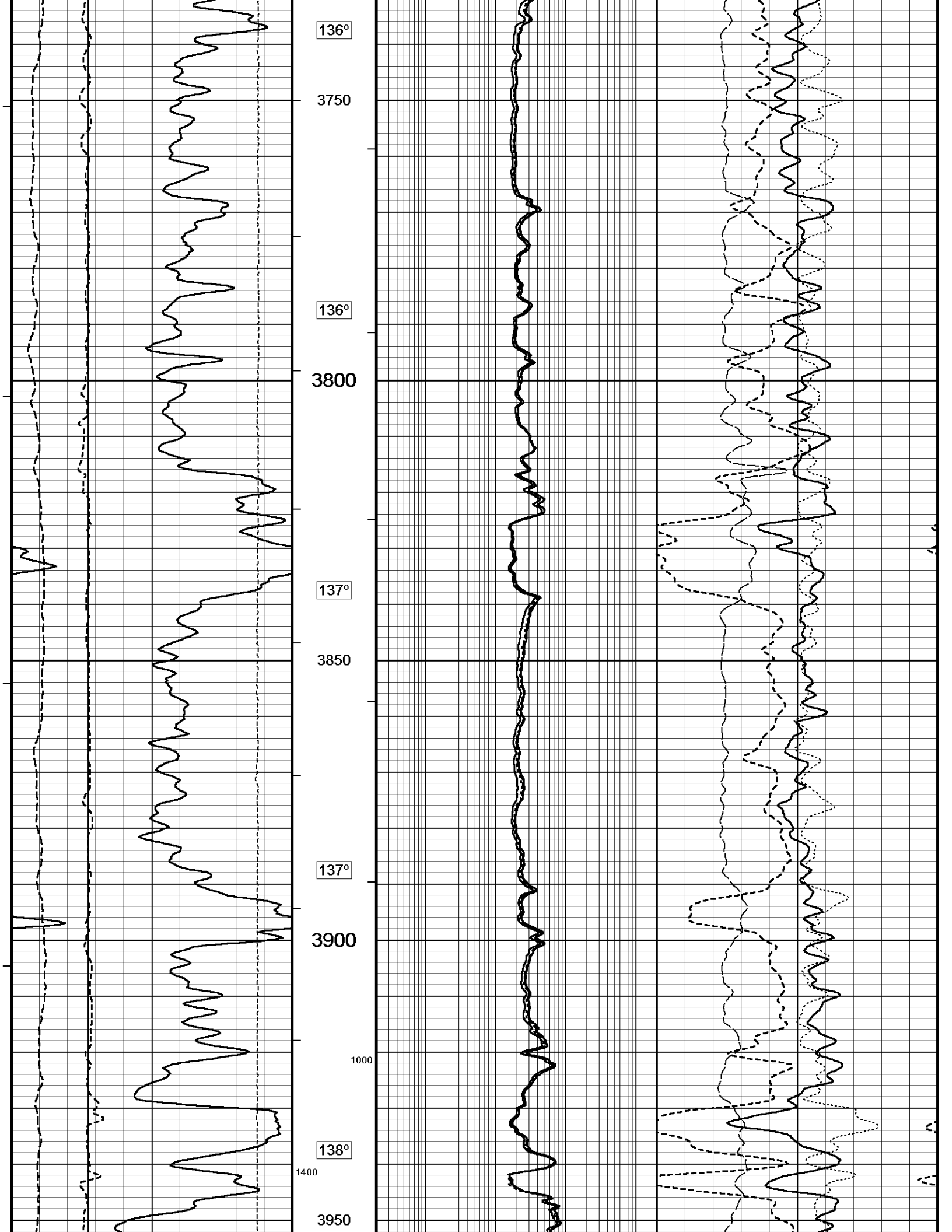
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136°
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137°
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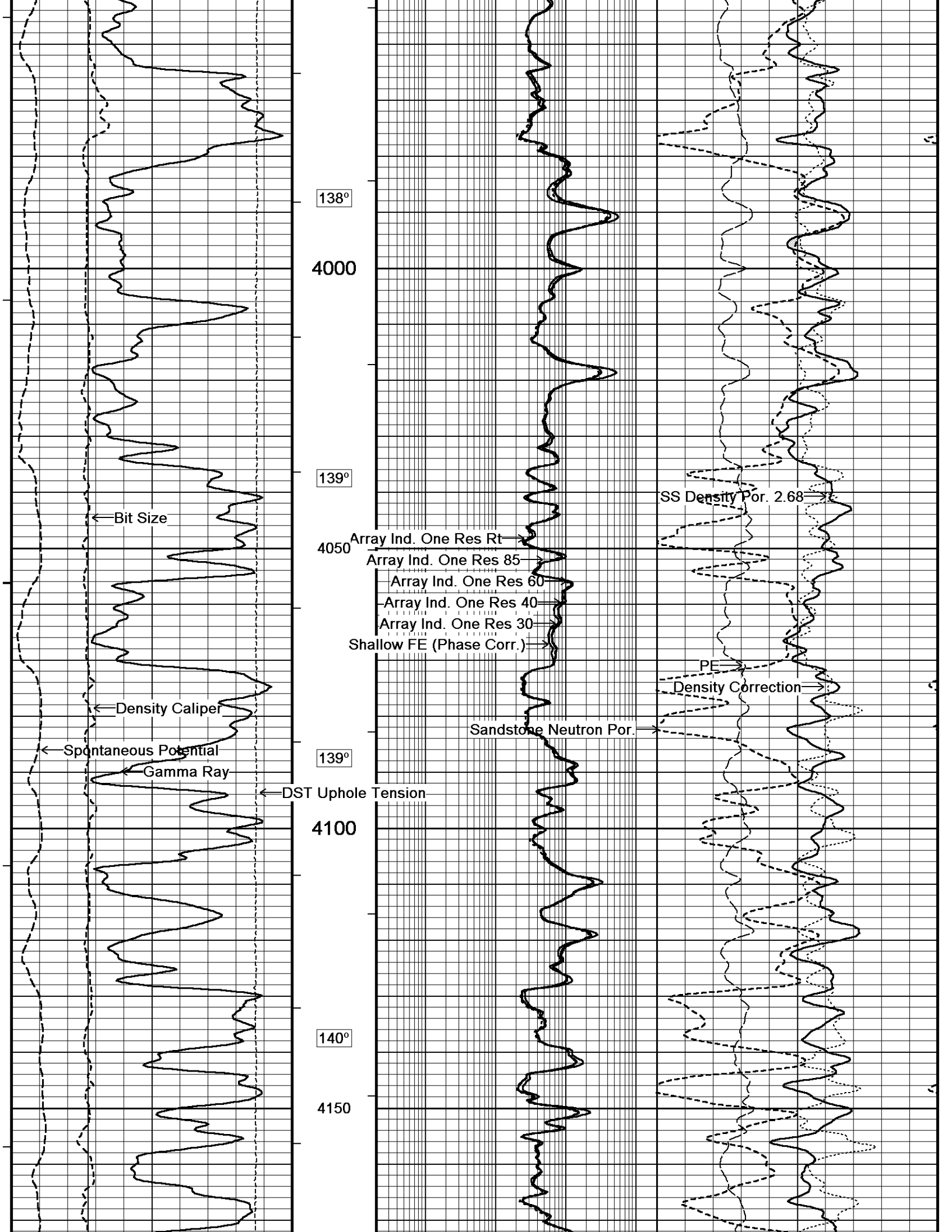
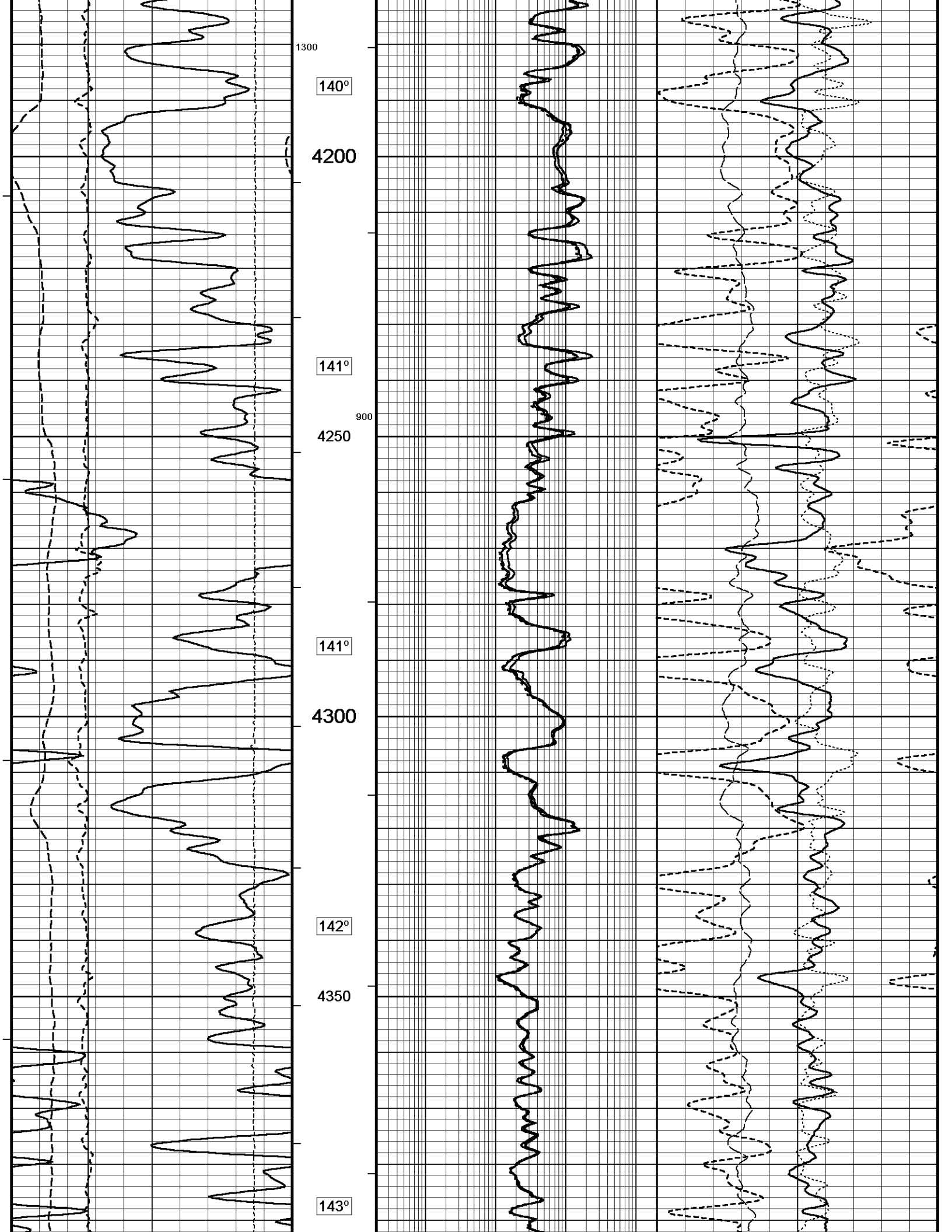
1000
138°
1400
3950


138°
4000
139°
Bit Size
4050
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.
Density Caliper
Spontaneous Potential
Gamma Ray
139°
DST Uphole Tension
4100
140°
4150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4200
141°
900
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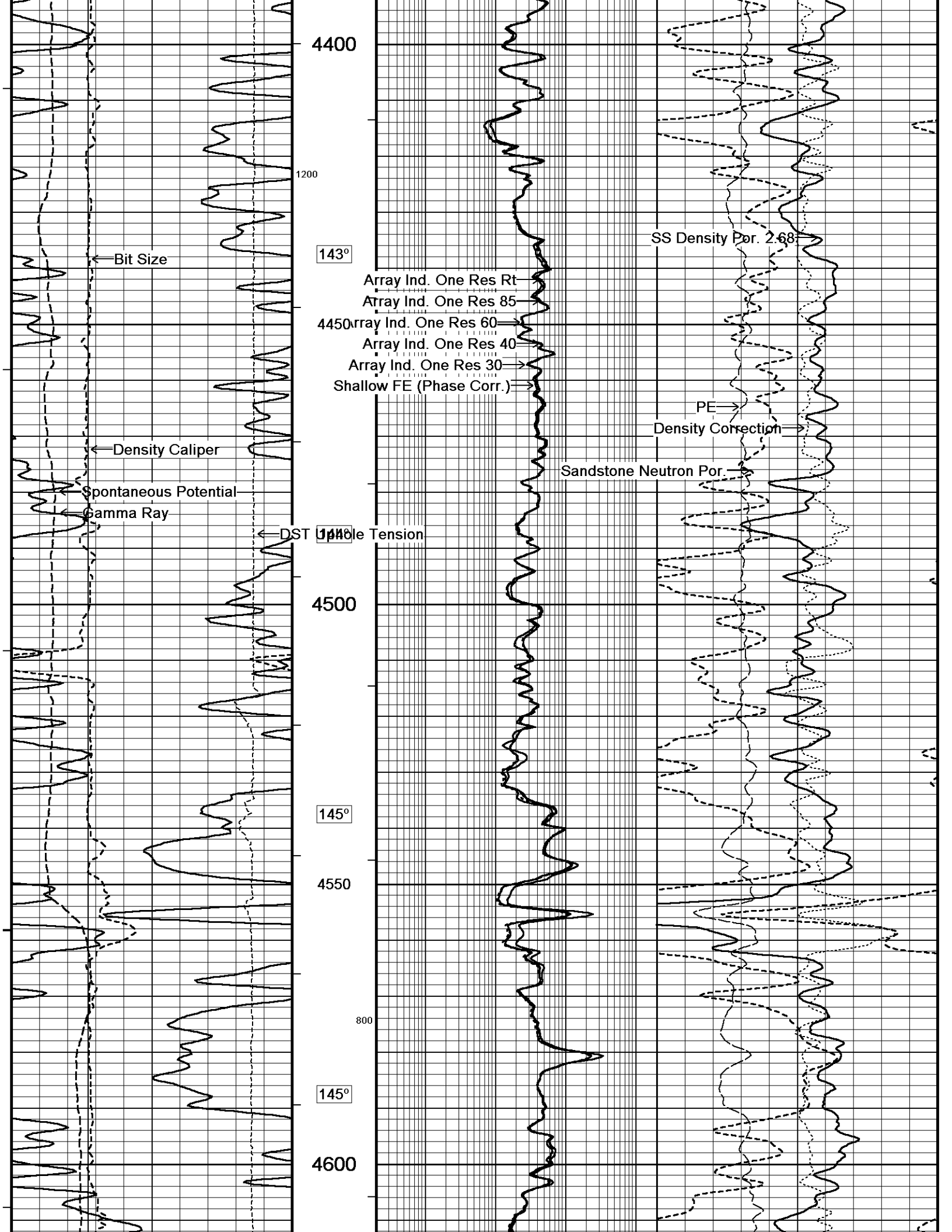
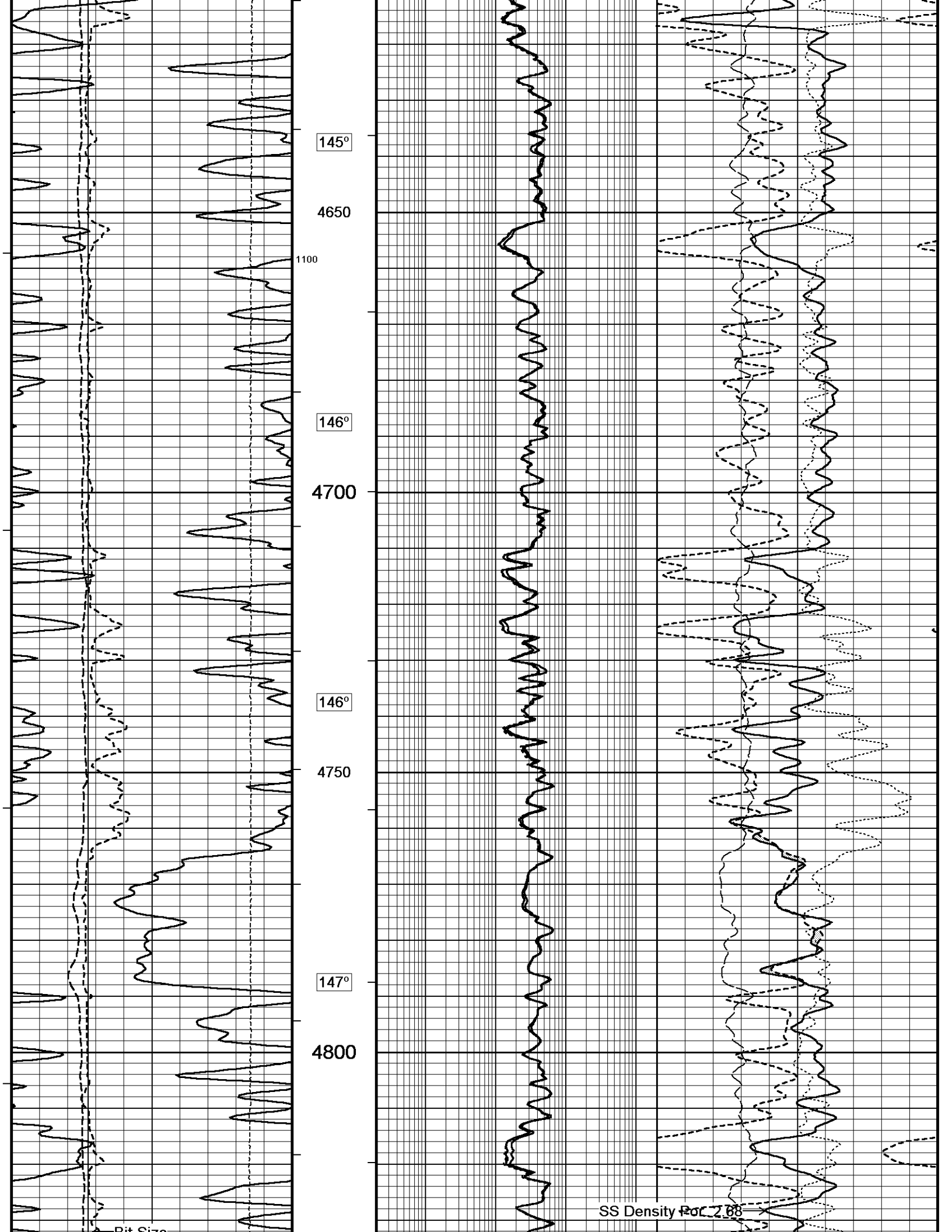
141°
4300
142°
4350
143°


4400
1200
143°
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
4450
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
4500
145°
4550
800
145°
4600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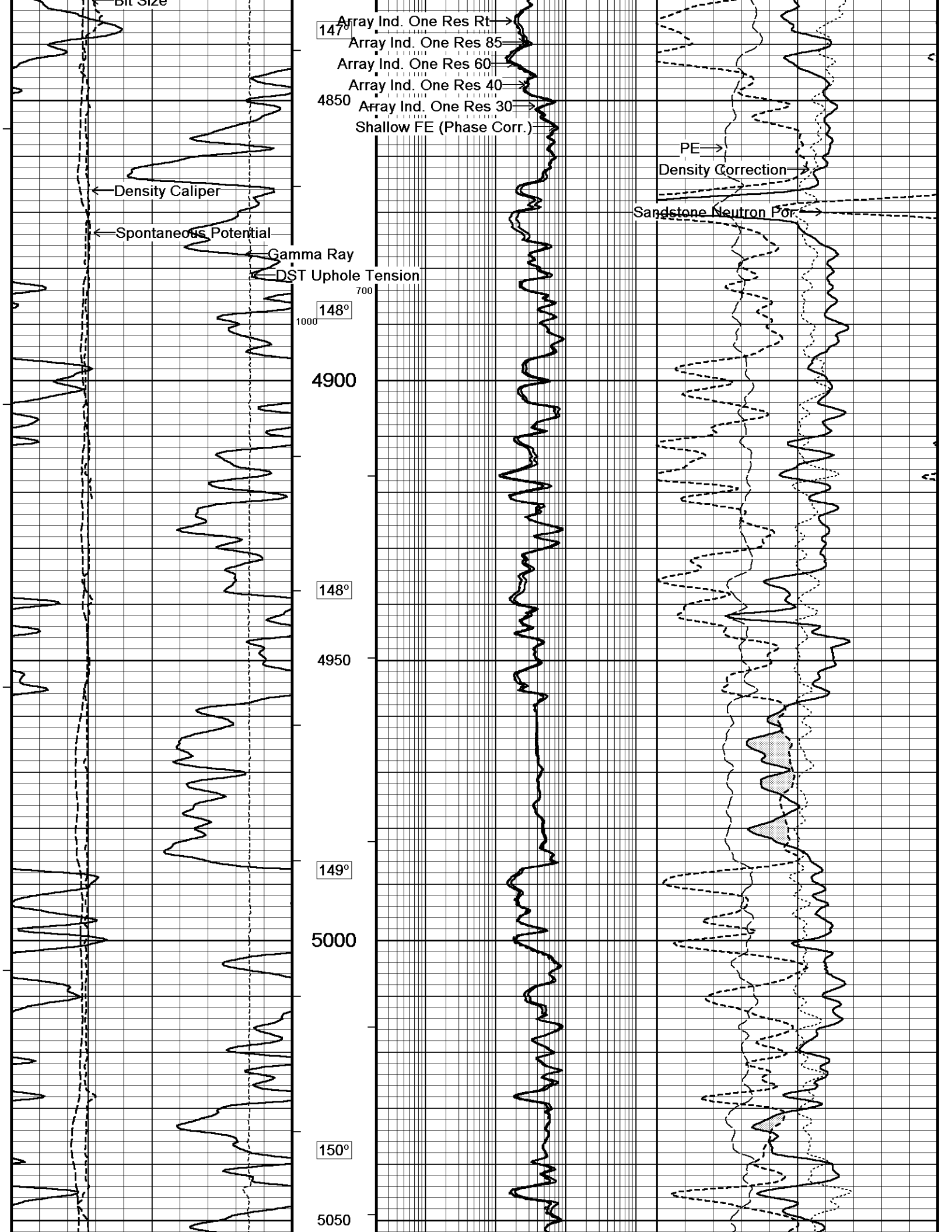
1100
146°
4700
146°
4750
147°
4800
SS Density Por 2.68


Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
700
1000
147°
148°
148°
149°
150°
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
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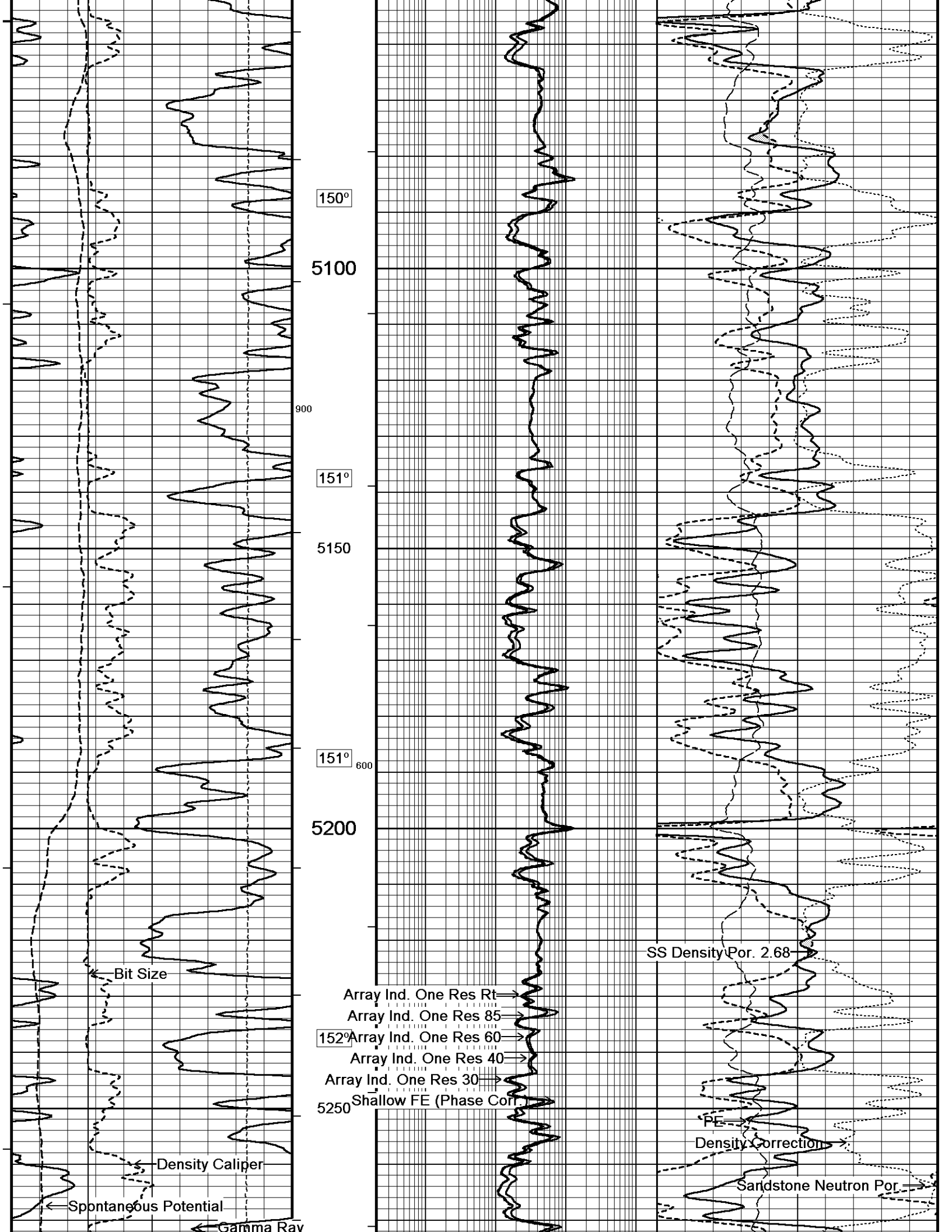
Shallow FE (Phase Corr.)
4850
4900
4950
5000
5050
PE
Density Correction
Sandstone Neutron Por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900
151°
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151°
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152°
5250
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
Array Ind. One Res Rt
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Shallow FE (Phase Corr.)
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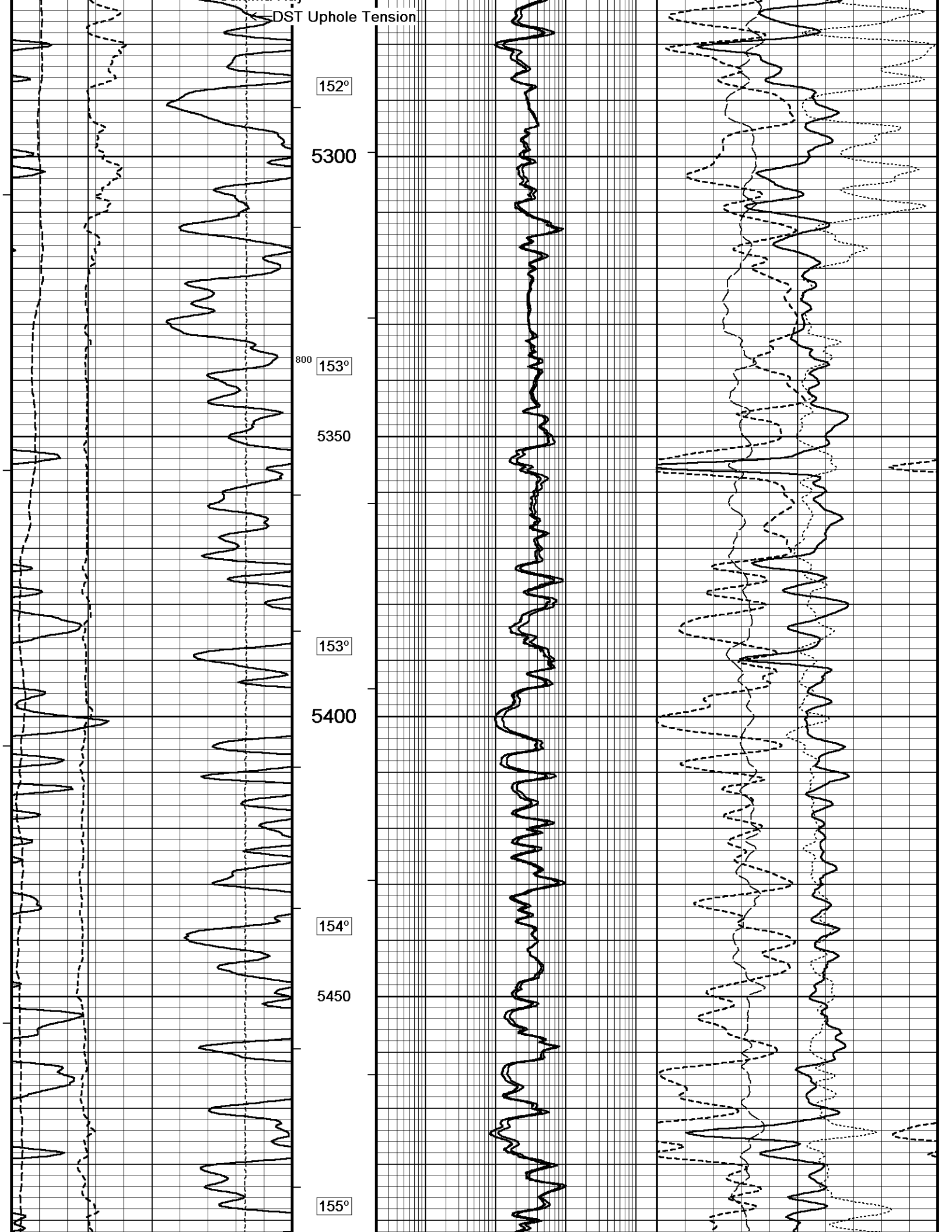
Density Correction
Sandstone Neutron Por.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5300
800
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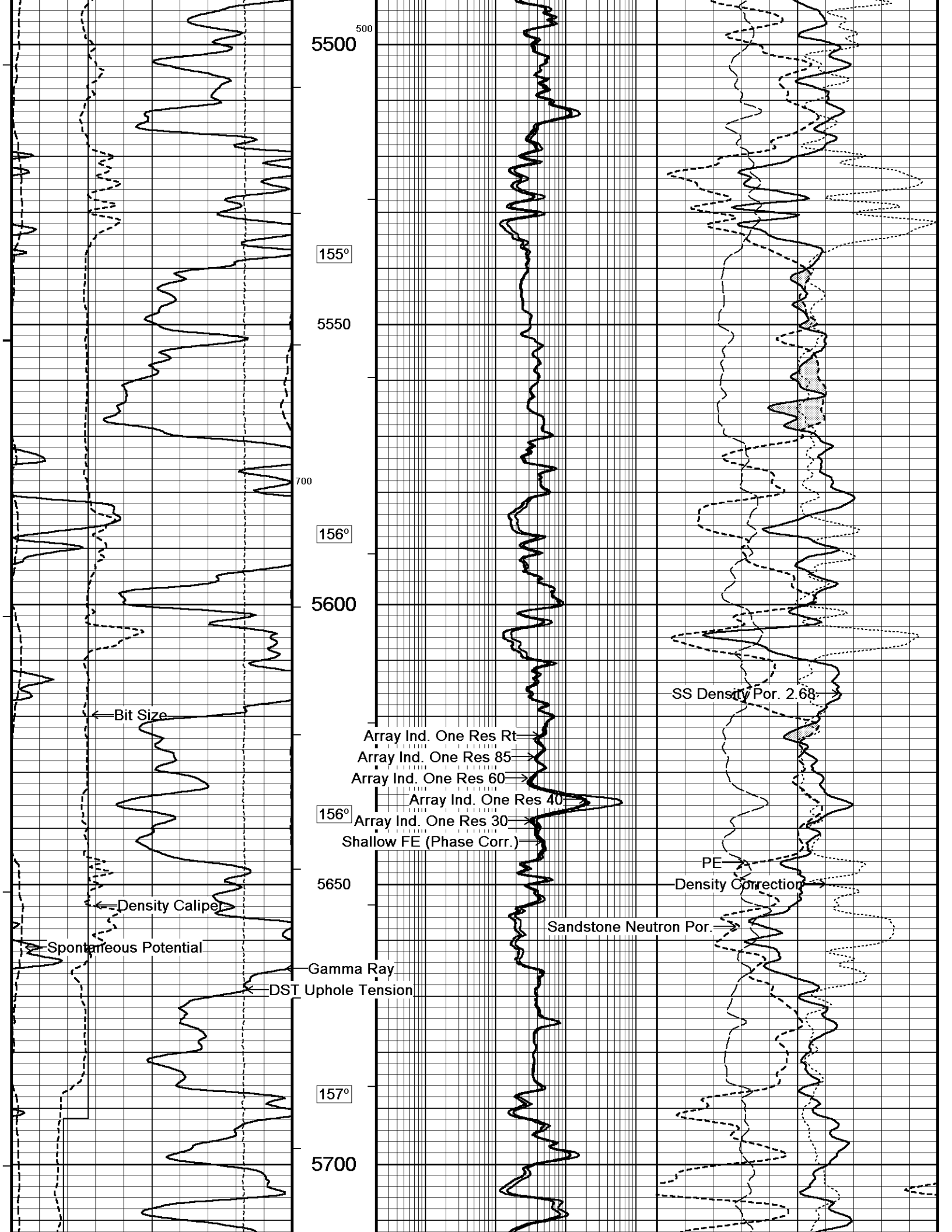
154°
5450
155°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5500
155°
5550
700
156°
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156°
Array Ind. One Res 30
Shallow FE (Phase Corr.)
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Gamma Ray
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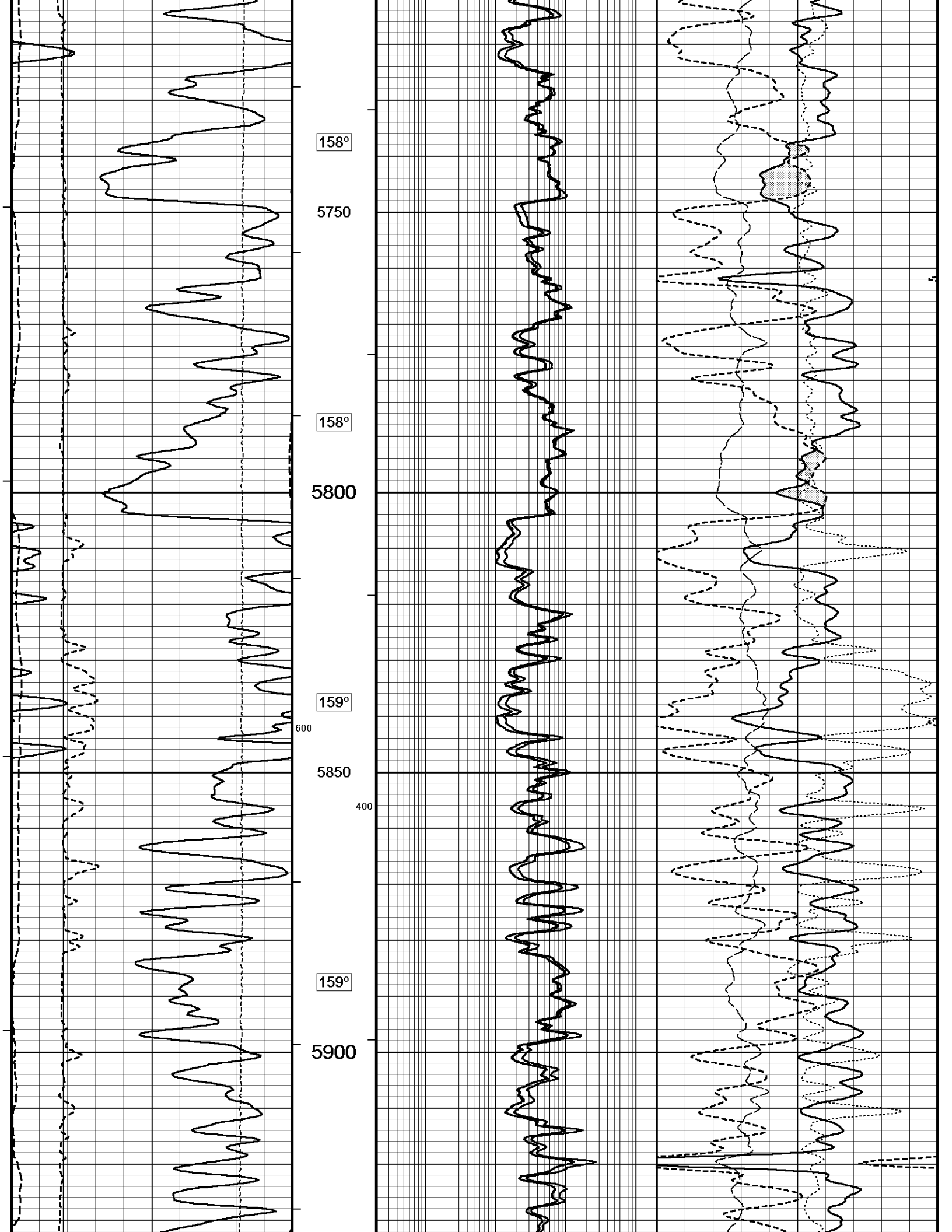
Density Correction
Sandstone Neutron Por.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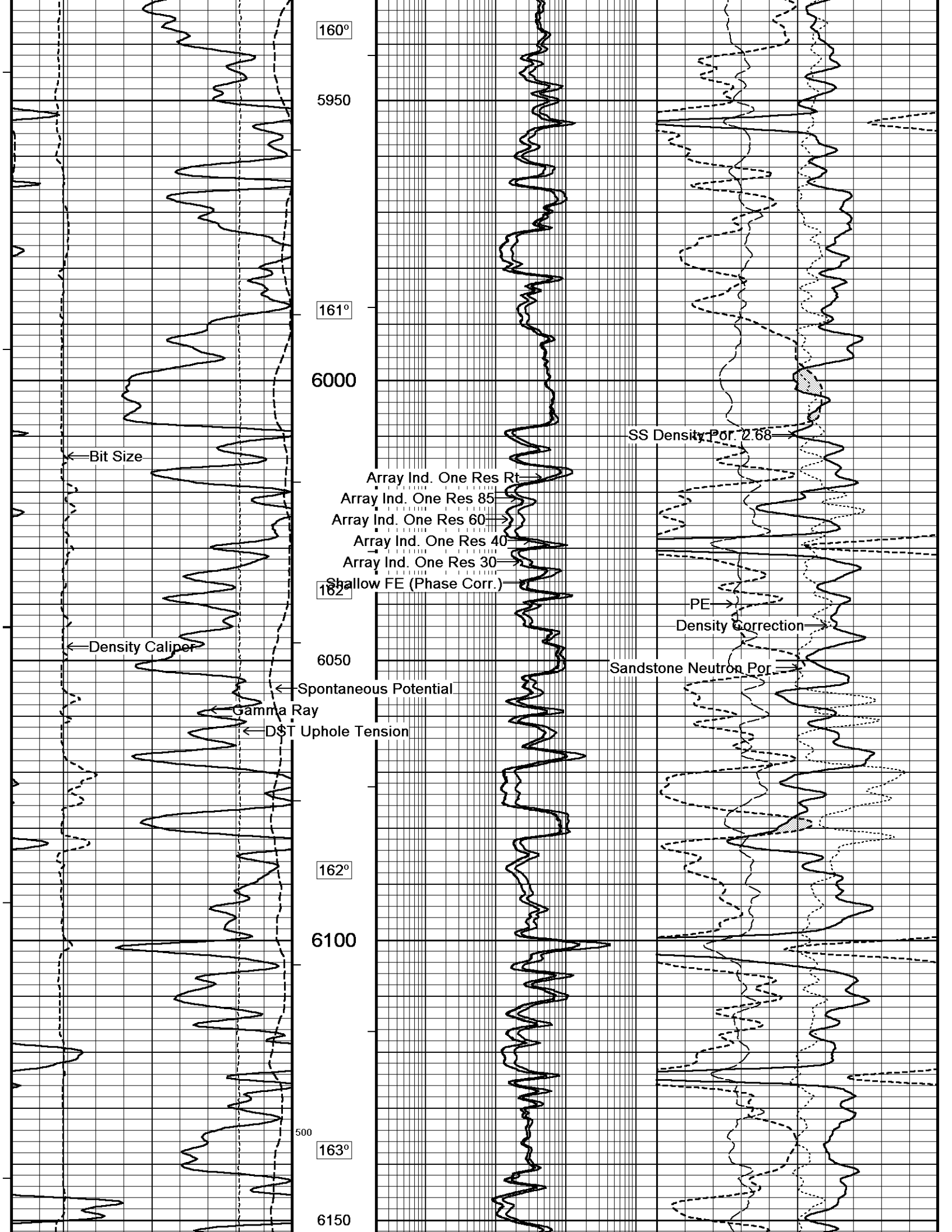
159°
5900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5950
161°
6000
162°
6050
162°
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163°
6150
500
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Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
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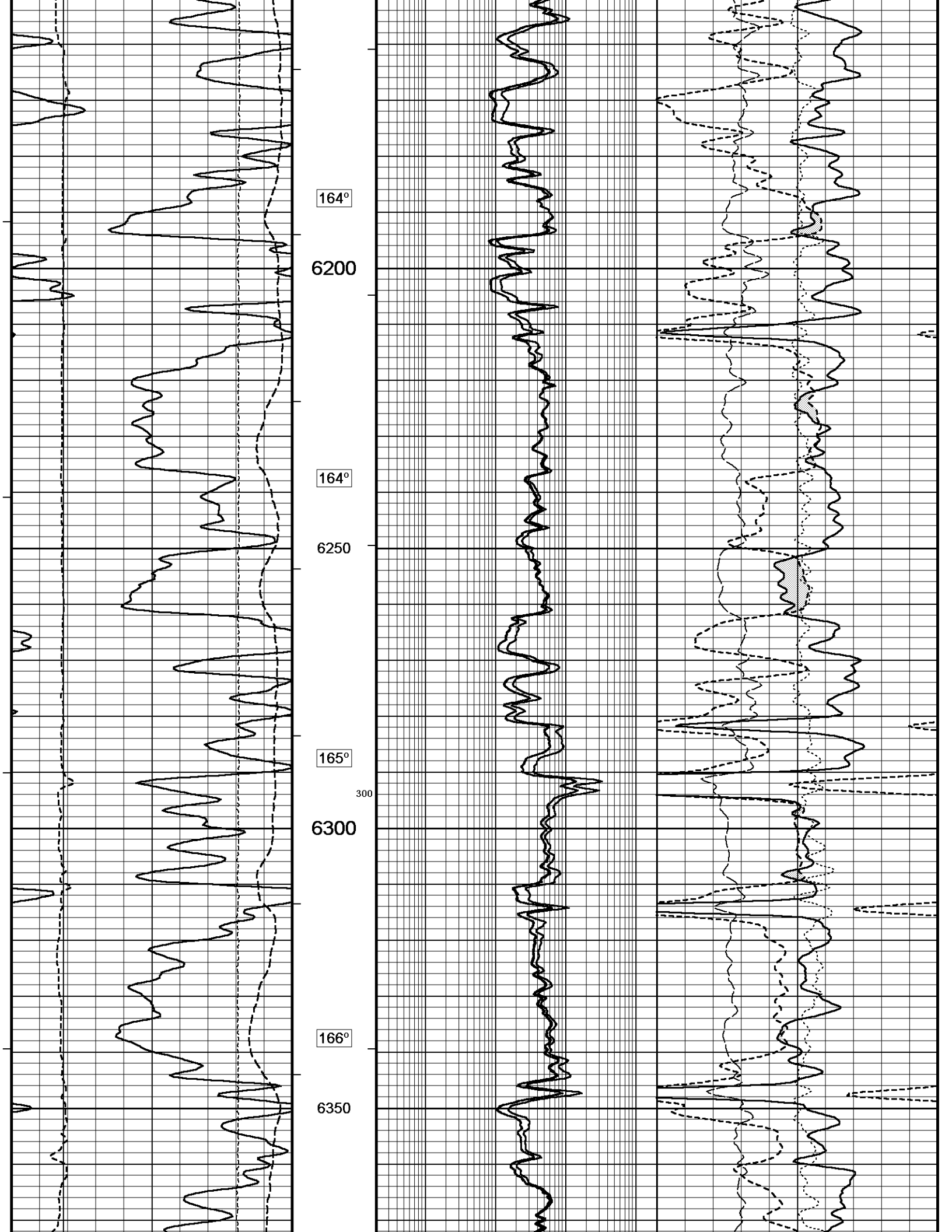
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por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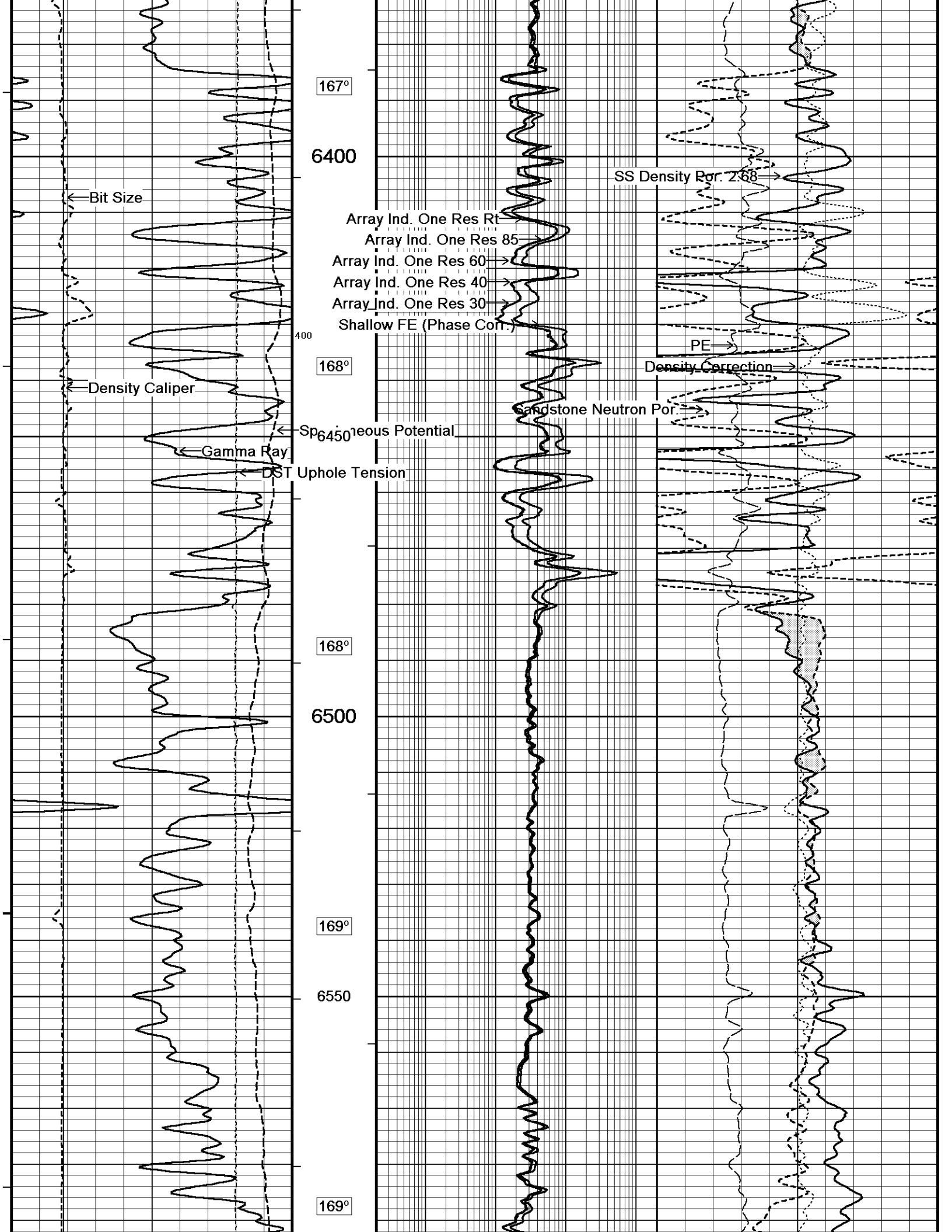
6200
164°
6250
165°
300
6300
166°
6350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6400
Bit Size
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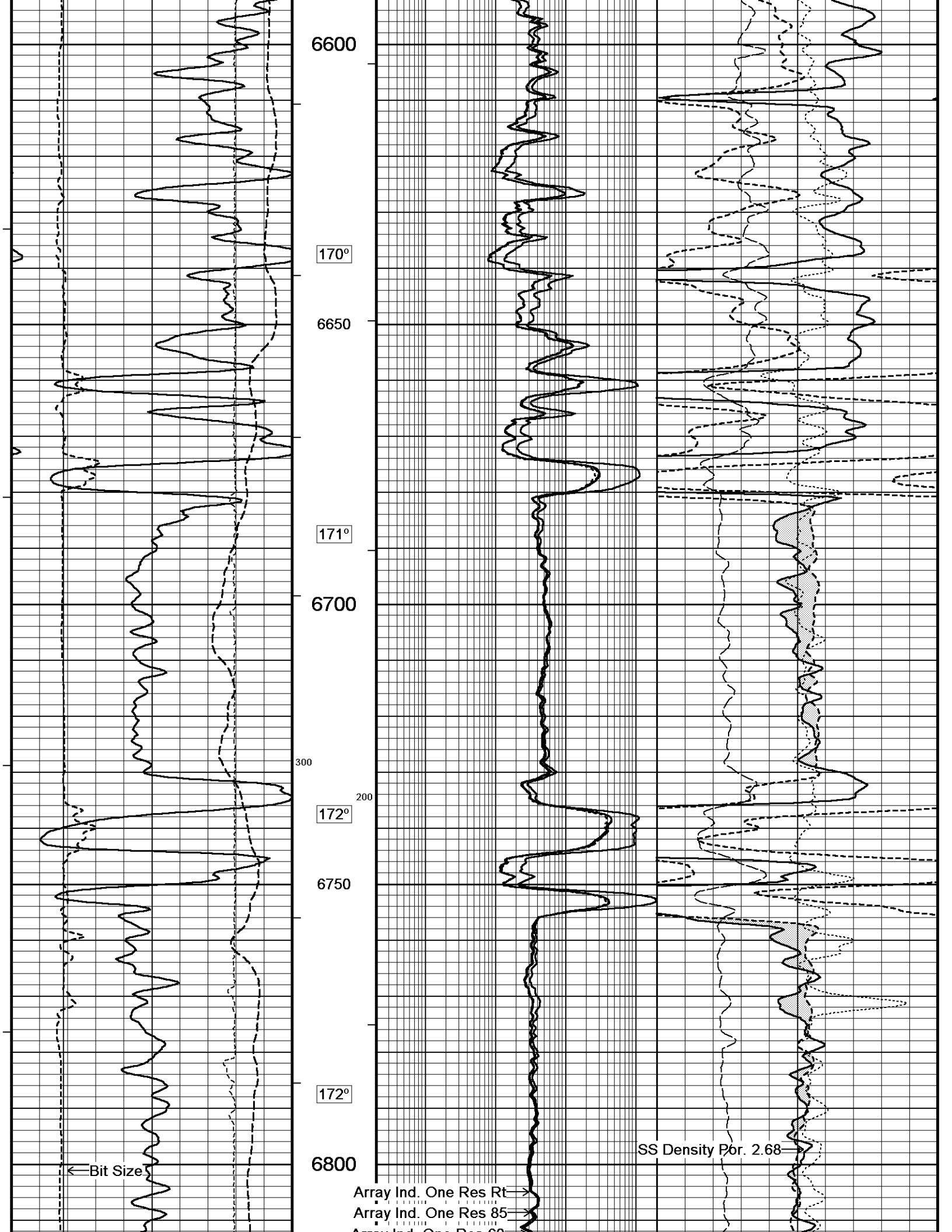
Shallow FE (Phase Corr.)
SS Density Por. 2.68
400
PE
168°
Density Caliper
Density Correction
Sandstone Neutron Por.
Spontaneous Potential
6450
Gamma Ray
DST Uphole Tension
168°
6500
169°
6550
169°


6600
170°
6650
171°
6700
300
200
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6750
172°
6800
Bit Size
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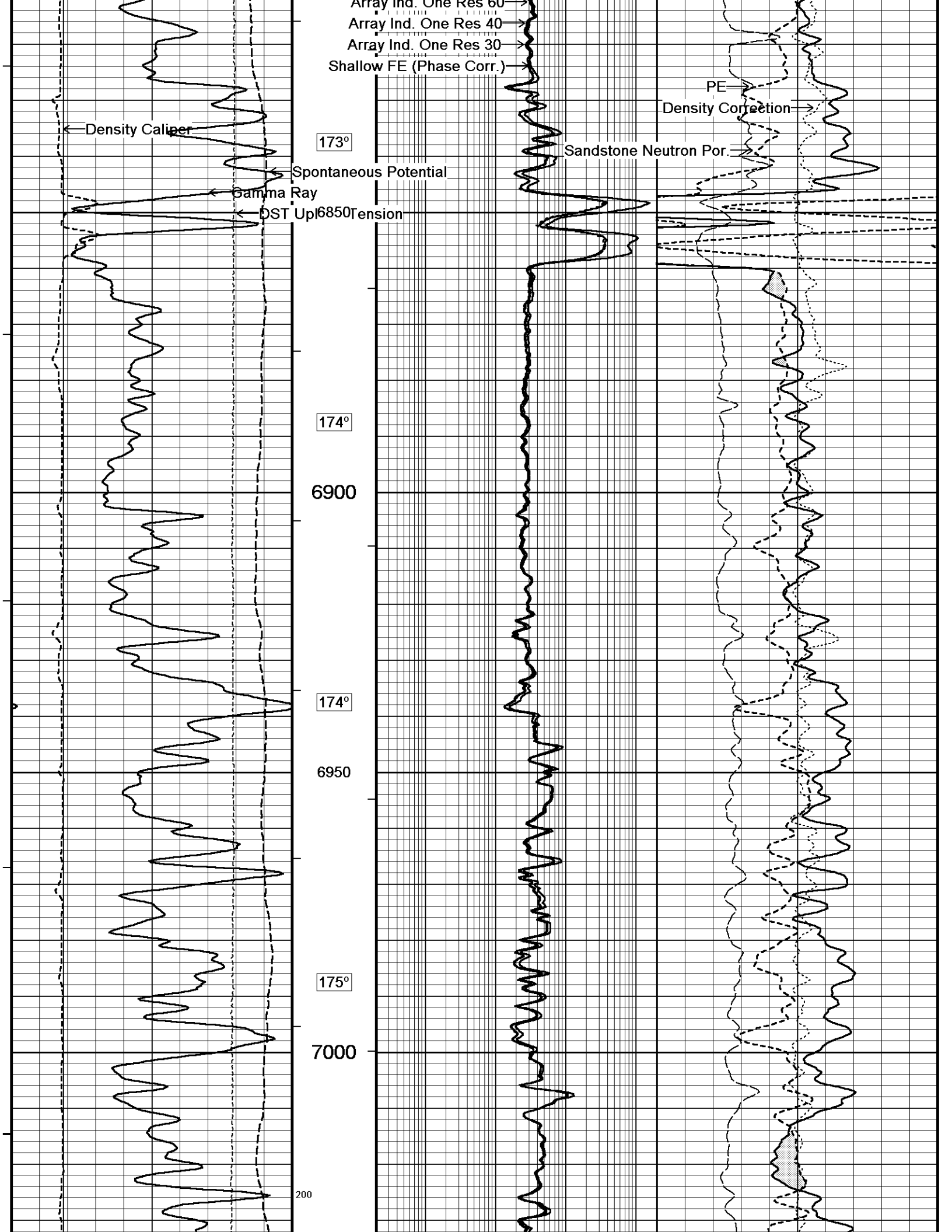
Array Ind. One Res 85
SS Density Por. 2.68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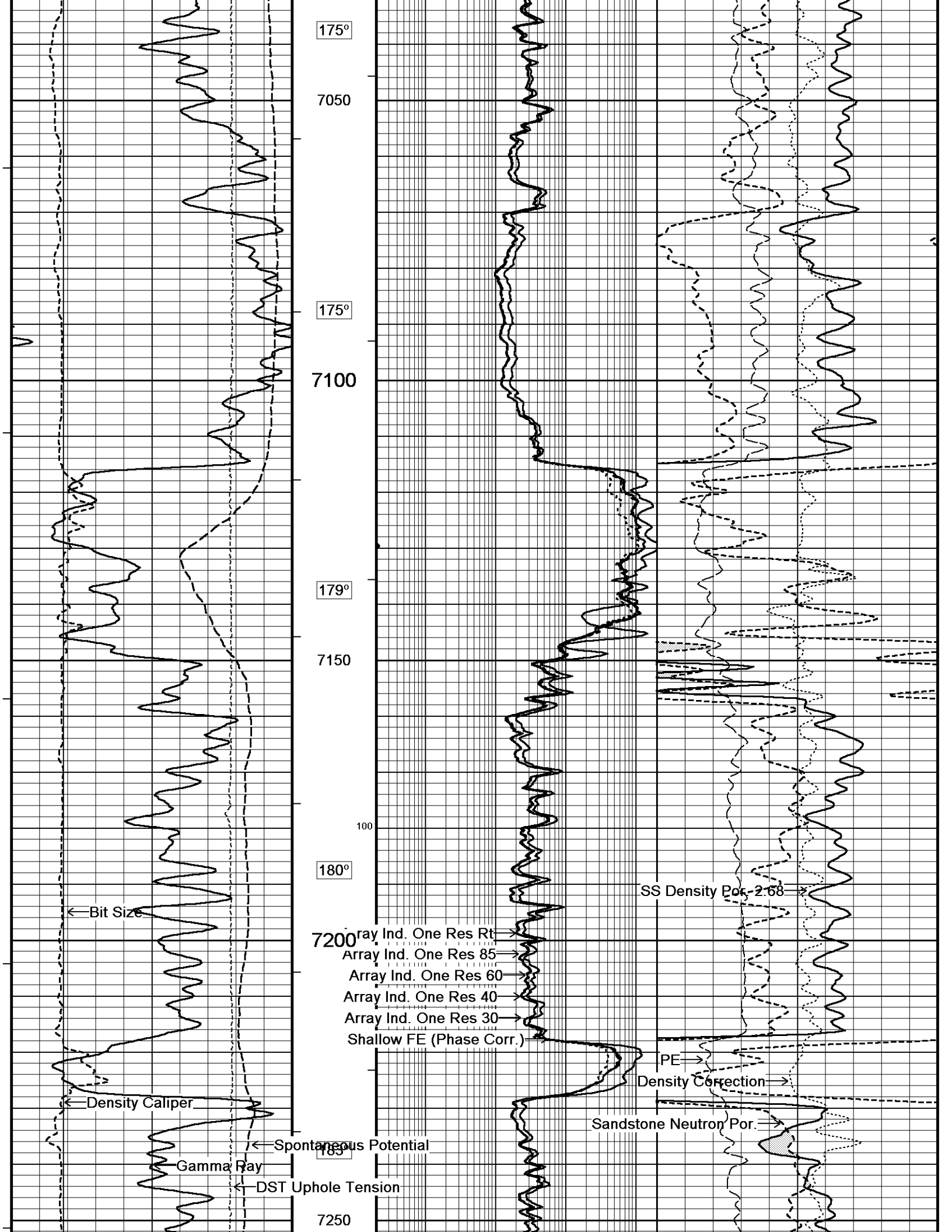
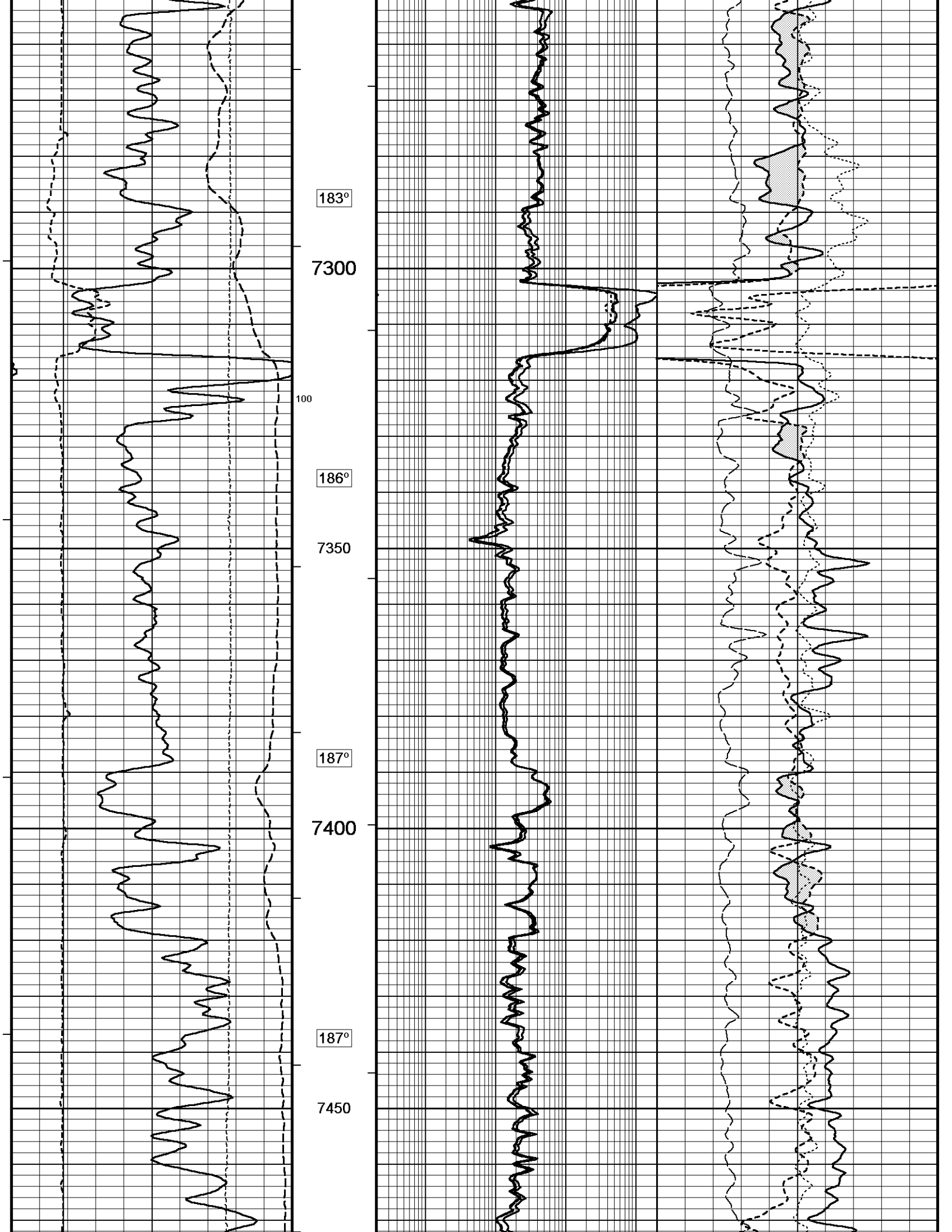
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
Density Caliper
173°
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Upl
6850
Tension
174°
6900
174°
6950
175°
7000
200


175°
7050
175°
7100
179°
7150
100
180°
7200
183°
7250
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por - 2.68
PE
Density Correction
Sandstone Neutron Por.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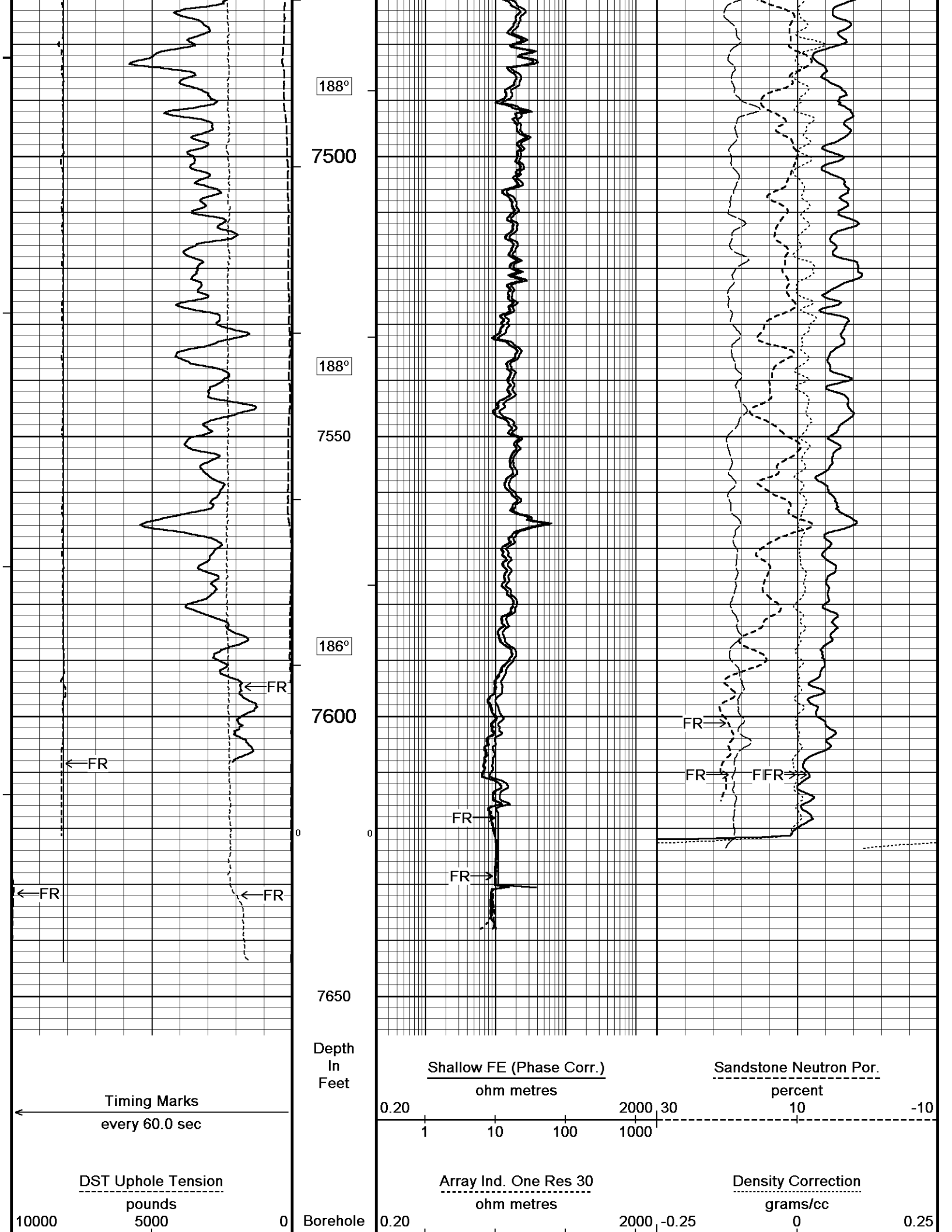
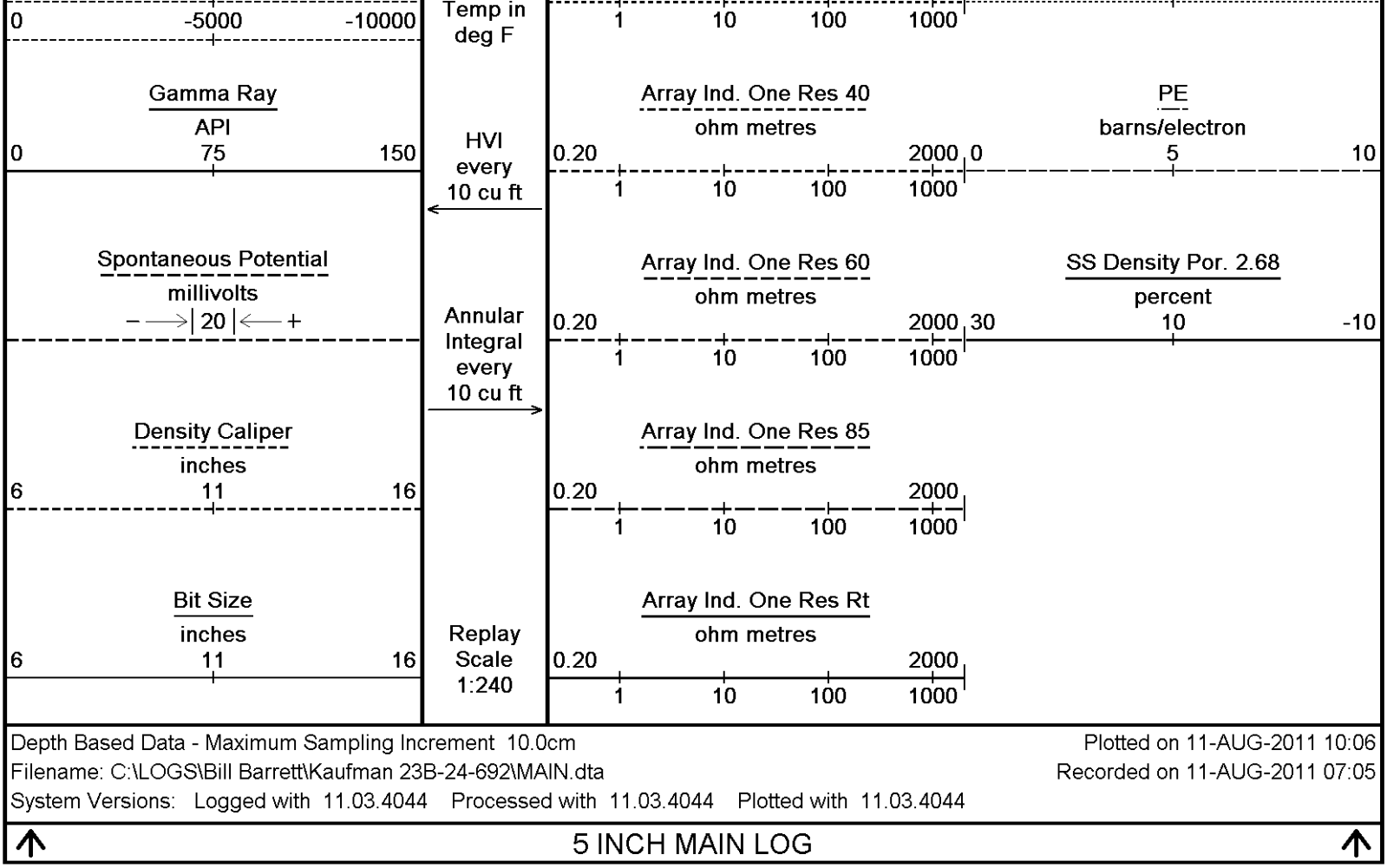
7300
100
186°
7350
187°
7400
187°
7450


188°
7500
188°
7550
186°
7600
7650
FR
FR
FR
FR
FR
FR
FR
FR
FR
0
0
Depth
In
Feet
Timing Marks
every 60.0 sec
DST Uphole Tension
pounds
10000
5000
0
Shallow FE (Phase Corr.)
ohm metres
0.20
2000
1
10
100
1000
Array Ind. One Res 30
ohm metres
0.20
2000
Borehole
Sandstone Neutron Por.
percent
30
10
-10
Density Correction
grams/cc
-0.25
0
0.25

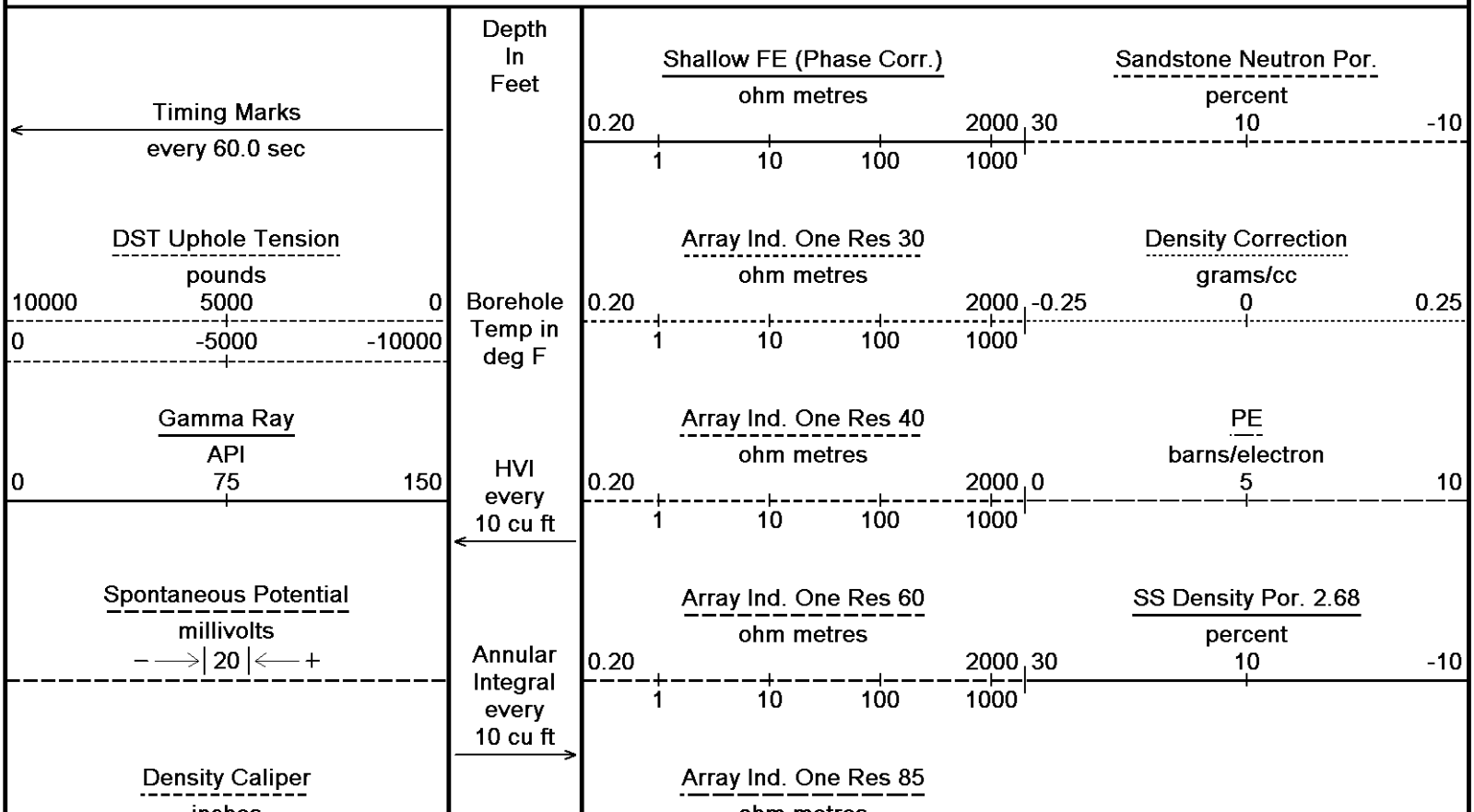


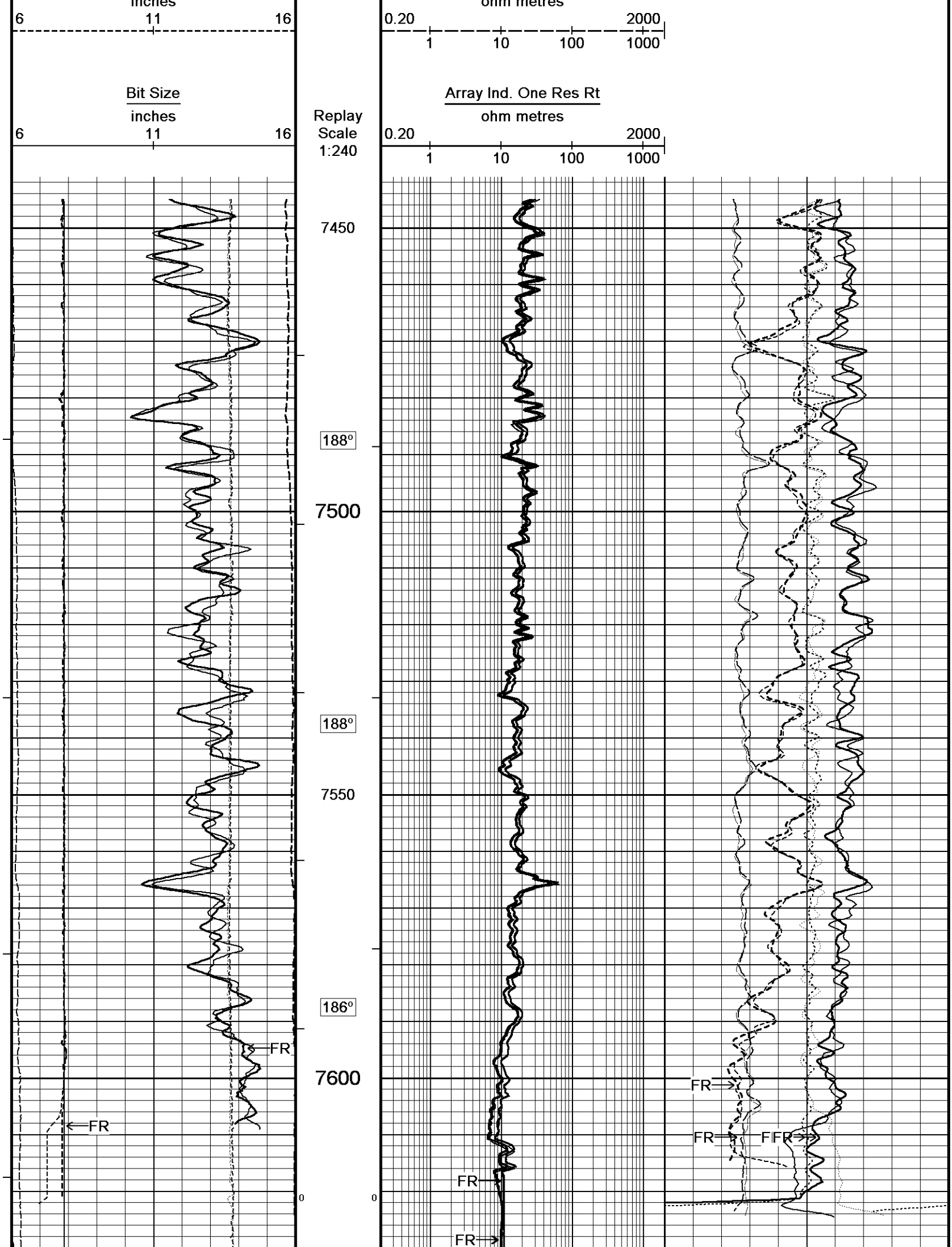
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 11-AUG-2011 10:06
Filename: C:\LOGS\Bill Barrett\Kaufman 23B-24-692\MAIN.dta — Recorded on 11-AUG-2011 07:05
System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 11.03.4044

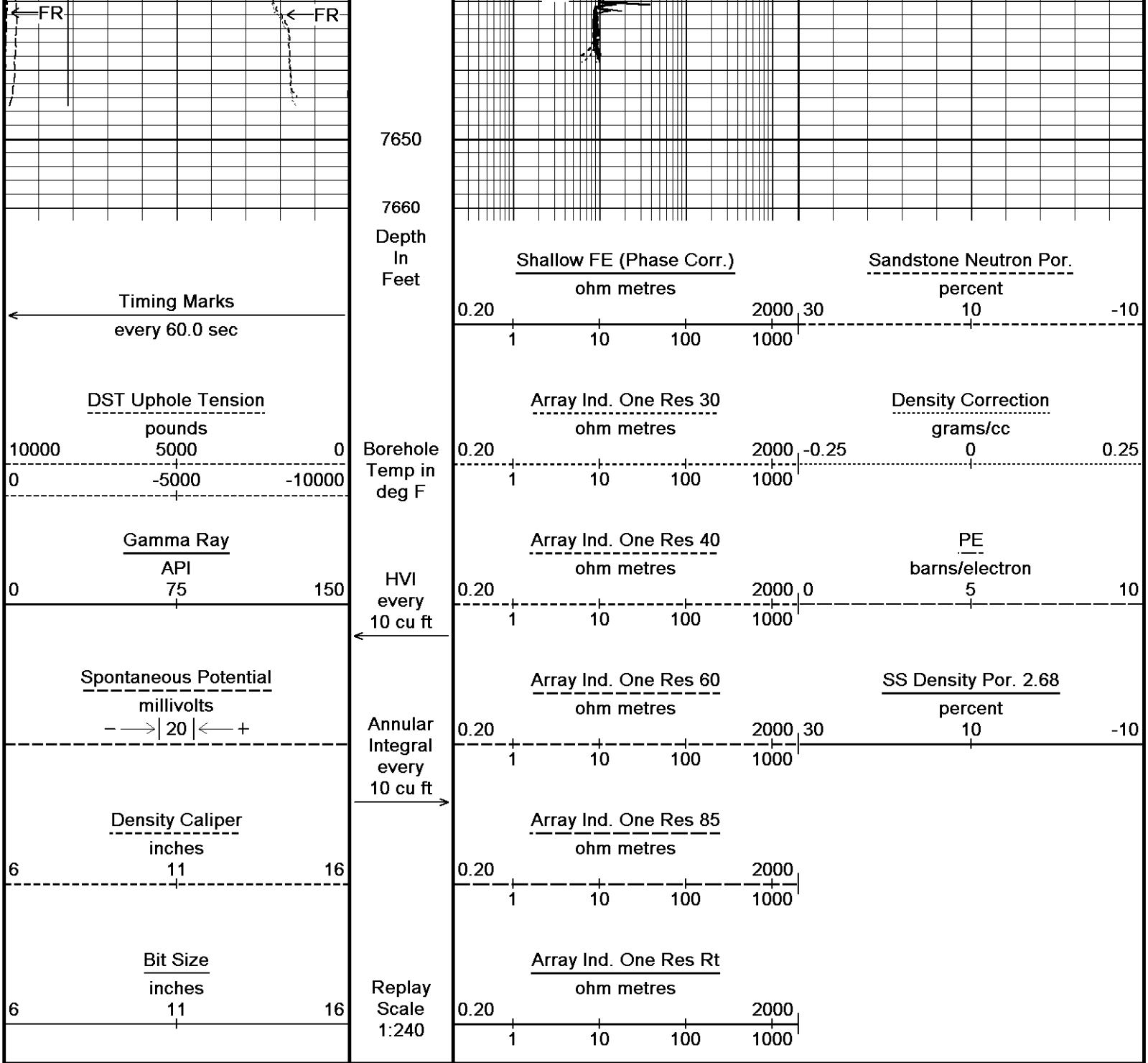
5 INCH MAIN LOG

OVERLAY

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 11-AUG-2011 10:06
Filename: C:\LOGS\Bill Barrett\Kaufman 23B-24-692\MAIN.dta — Recorded on 11-AUG-2011 07:05
Filename: C:\LOGS\Bill Barrett\Kaufman 23B-24-692\REPEAT.dta — Recorded on 11-AUG-2011 06:47
System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 11.03.4044




inches
6
11
16
0.20
2000
ohm metres
1
10
100
1000
Bit Size
inches
6
11
16
Array Ind. One Res Rt
ohm metres
0.20
2000
1
10
100
1000
Replay
Scale
1:240
7450
188°
7500
188°
7550
186°
7600
FR
FR
FR
FR
FR
FR
FR
0
0



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 11-AUG-2011 10:06
Filename: C:\LOGS\Bill Barrett\Kaufman 23B-24-692\MAIN.dta — Recorded on 11-AUG-2011 07:05
Filename: C:\LOGS\Bill Barrett\Kaufman 23B-24-692\REPEAT.dta — Recorded on 11-AUG-2011 06:47
System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 11.03.4044

OVERLAY

BEFORE SURVEY CALIBRATION

C:\LOGS\Bill Barrett\Kaufman 23B-24-692\MAIN.dta

General Constants All 000 — Last Edited on 11-AUG-2011,06:07

General Parameters

Mud Resistivity	2.720	ohm-metres
Mud Resistivity Temperature	75.000	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	4.500	inches
Caliper for Differential Caliper	None	

Rwa Parameters

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

Down-hole Tension Calibration SMS 0

Field Calibration on 11-AUG-2011 05:52

Reading No	Measured	Calibrated (lbs)
1	14622.07	0.00
2	15264.80	320.00

Gamma Calibration MCG-D.A 287

Field Calibration on 11-AUG-2011 00:28

	Measured	Calibrated (API)
Background	109	73
Calibrator (Gross)	1462	985
Calibrator (Net)	1353	912

Gamma Constants MCG-D.A 287

Last Edited on 11-AUG-2011,05:50

Gamma Calibrator Number	GRC-072	
Mud Density	1.24	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

SP Calibration MCG-D.A 287

Field Calibration on 11-AUG-2011,00:28

	Measured	Calibrated (mV)
Reference 1	100.9	100.0
Reference 2	-100.2	-100.0

High Resolution Temperature Calibration MCG-D.A 287

Field Calibration on 11-AUG-2011,00:29

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	50.00	50.00

High Resolution Temperature Constants MCG-D.A 287

Last Edited on 11-AUG-2011,00:29

Pre-filter Length	11

Neutron Calibration MDN-A.B 160

Base Calibration on 08-AUG-2011 11:05
Field Check on 11-AUG-2011 00:33

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3338	103	3714	110
Ratio	32.272		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1274	1900
Ratio	0.671	

Field Check

	Calibrated (cps)	
	1292	1856
Ratio	0.696	

Neutron Constants MDN-A.B 160

Last Edited on 11-AUG-2011,00:29

Neutron Source Id	1056	
Neutron Jig Number	5922	
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	7.00	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	None	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 85

Base Calibration on 08-AUG-2011 15:44
Field Check on 11-AUG-2011 05:54

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	968.0	126.8
Base Check		280.7
Field Check		280.7

FE Constants MFE-A.A 85

Last Edited on 10-AUG-2011,01:42

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-B.A 213

Base Calibration on 08-AUG-2011,13:34
Field Check on

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	16.8	462.4	9.3	966.2
2	6.2	381.7	7.6	821.4
3	3.6	254.8	5.2	566.0
4	2.3	132.3	2.6	279.2

Array Temperature 73.6 Deg F

Channel	Base Check (mmho/m) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High	
1	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	
Deep	0.0	0.0	0.0	0.0	
Medium	0.0	0.0	0.0	0.0	
Shallow	0.0	0.0	0.0	0.0	
Array Temperature		0.0		0.0	Deg F

Induction Constants MAI-B.A 213

Last Edited on 11-AUG-2011,00:34

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	6.0000	
Stand-off Fin Angle	60.00	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 Normalization

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-B.A 213

Field Calibration on 10-AUG-2011,01:07

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	50.00	50.00

High Resolution Temperature Constants MAI-B.A 213

Last Edited on

Pre-filter Length	11

Caliper Calibration MPD-B 167

Base Calibration on 08-AUG-2011 15:36
Field Calibration on 10-AUG-2011 02:14

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	17456	4.00
2	26039	5.96
3	33797	7.98
4	41984	9.86
5	50976	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.91	8.92

Photo Density Calibration MPD-B 167

Base Calibration on 08-AUG-2011 15:24
Field Check on 11-AUG-2011 05:58

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	50352	17857	53237	19445
Reference 2	23760	3000	25135	2545

Field Check at Base

1236.1	1728.2

Field Check

1241.2	1725.2

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	226	1112		
Reference 1	16945	50175	0.341	0.320
Reference 2	6638	23623	0.285	0.274

Field Check at Base

225.6	1111.9

Field Check

225.3	1115.2

Density Constants MPD-B 167

Last Edited on 11-AUG-2011,05:50

Density Source Id	P50561B	
Nylon Calibrator Number	532	
Aluminium Calibrator Number	532	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.24	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)
2.68	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	

AFTER SURVEY CALIBRATION

C:\LOGS\Bill Barrett\Kaufman 23B-24-692\MAIN.dta

FE Check MFE-A.A 85

Before Survey Check 11-AUG-2011 05:54
After Survey Check on 11-AUG-2011 09:42

Before (ohm-m)	After (ohm-m)
280.7	280.6

Induction Check MAI-B.A 213

Before Survey Check on
After Survey Check on 11-AUG-2011 09:41

Channel	Before Survey (mmho/m)		After Survey (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	15.7	3937.1
2	0.0	0.0	30.6	3539.9
3	0.0	0.0	29.0	3113.9
4	0.0	0.0	19.1	2096.3
Deep	0.0	0.0	17.6	2077.9
Medium	0.0	0.0	42.6	4087.8
Shallow	0.0	0.0	46.0	5159.7
Array Temperature		0.0		94.5

Photo Density Check MPD-B 167

Before Survey Check on 11-AUG-2011 05:58
After Survey Check on 11-AUG-2011 09:46

Density Check

Near		Far	
Before	After	Before	After
1241.2	1239.2	1725.2	1727.3

PE Check

	Before	After
WS	225.3	225.0
WH	1115.2	1111.6

DOWNHOLE EQUIPMENT

C:\LOGS\Bill Barrett\Kaufman 23B-24-692\MAIN.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

SHA-F Compact Swivel Head Adaptor
SHA-F 82 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in

Compact Comms Gamma
MCG-D.A 287 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Neutron
MDN-A.B 160 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 114 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-A.A 85 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.A 213 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 46.67 ft Weight: 368.2 lb

37.07 ft	GRGC - Gamma Ray
34.16 ft	CGXT - MCG External Temperature
30.61 ft	NPRS - Sandstone Neutron Por.
23.37 ft	AVOL - Annular Volume
23.37 ft	HVOL - Hole Volume
23.37 ft	CLDC - Density Caliper
21.44 ft	DPOR - Base Density Porosity
21.44 ft	DCOR - Density Correction
21.38 ft	PDPE - PE
13.72 ft	FEFC - Shallow FE (Phase Corr.)
3.34 ft	R40O - Array Ind. One Res 40
3.34 ft	R30O - Array Ind. One Res 30
3.34 ft	RTAO - Array Ind. One Res Rt
3.34 ft	R85O - Array Ind. One Res 85
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	BILL BARRETT CORPORATION
WELL	KAUFMAN 23B-24-692
FIELD	MAMM CREEK
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	5866.00	feet	First Reading	7629.00	
Elevation Drill Floor	5866.00	feet	Depth Driller	7633.00	feet
Elevation Ground Level	5843.00	feet	Depth Logger	7632.00	feet

Weatherford®

COMPACT TRIPLE COMBO
QUICKLOOK
LOG

40 Years of Wireline 1970 2010