COMPACT TRIPLE COMBO QUICKLOOK LOG

COMPANY	BILL BARRETT CORPORATION
WELL	GGU FEDERAL 31C-29-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO
LOCATION	SHL: 1200' FNL & 1367' FEL
	BHL: 492' FNL & 1990' FEL

SEC	TWP	RGE	Other Services
29	6S	91W	

API Number 05-045-19807
Permit Number

Permanent Datum G.L., Elevation 6104 feet
Log Measured From K.B. @ 23 FEET above Permanent Datum
Drilling Measured From K.B.

Elevations:	feet
KB	6127.00
DF	
GL	6104.00

Date	24-MAR-2011			
Run Number	ONE			
Depth Driller	7475.00	feet		
Depth Logger	7474.00	feet		
First Reading	7470.50			
Last Reading	761.00			
Casing Driller	760.00	feet		
Casing Logger	761.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	LSND			
Density / Viscosity	10.70 lb/USg	55.00 CP		
PH / Fluid Loss	9.80	6.00 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	3.0 @ 90.0	ohm-m		
Rmf @ Measured Temp	2.40 @ 90.0	ohm-m		
Rmc @ Measured Temp	3.60 @ 90.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	1.81 @182.0	ohm-m		
Time Since Circulation	5 HOURS			
Max Recorded Temp	182.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13173	GD JCT		
Recorded By	M. RICHINS, K. SALLER			
Witnessed By	C. CROW			

BOREHOLE RECORD

Last Edited: 24-MAR-2011 20:53

Bit Size inches	Depth From feet	Depth To feet
8.750	760.00	3412.00
7.880	3412.00	7475.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	760.00	36.00

REMARKS

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

HARDWARE: MPD: 8 INCH PROFILE PLATE USED.
ONE 0.5 INCH STANDOFFS USED ON INDUCTION.
ONE 0.5 INCH STANDOFFS USED ON MFE.
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. = 8.93" (9 5/8", 36 LB/FT CASING)

MAXIMUM WELL DEVIATION 17 DEG

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2560 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1830 CU.FT.

SERVICE ORDER: # 3524873

RIG: PATTERSON #307

5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\LOGS\GJ11-037\main.dta
System Versions: Logged with 11.02.2782 Plotted with 11.01.1914

Plotted on 25-MAR-2011 05:23
Recorded on 24-MAR-2011 21:50

Timing Marks
every 60.0 sec

DST Uphole Tension
pounds
10000 5000 0
0 -5000 -10000

Gamma Ray
API
0 75 150

Spontaneous Potential
millivolts
– → | 20 | ← +

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

Depth In Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240

Shallow FE (Phase Corr.)
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 30
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 40
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 60
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 85
ohm metres
0.20 2000
1 10 100 1000

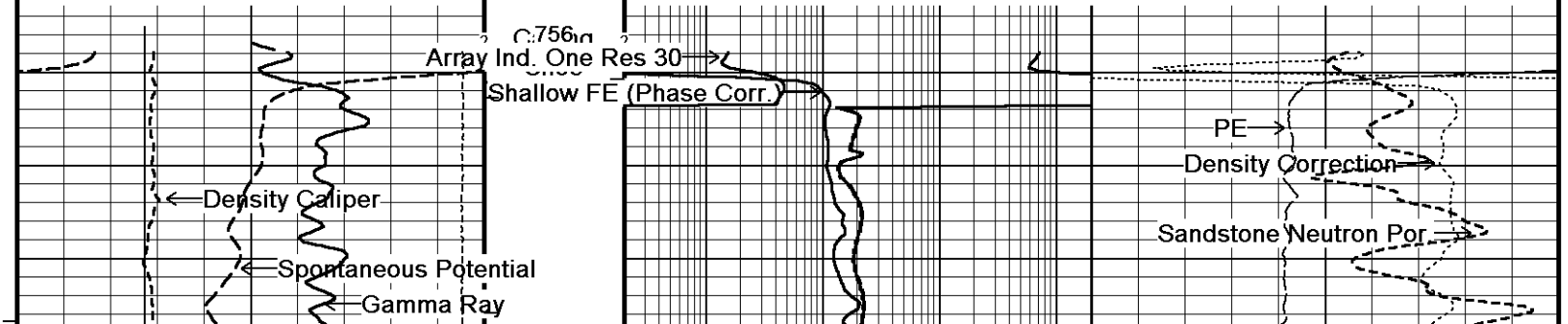
Array Ind. One Res Rt
ohm metres
0.20 2000
1 10 100 1000

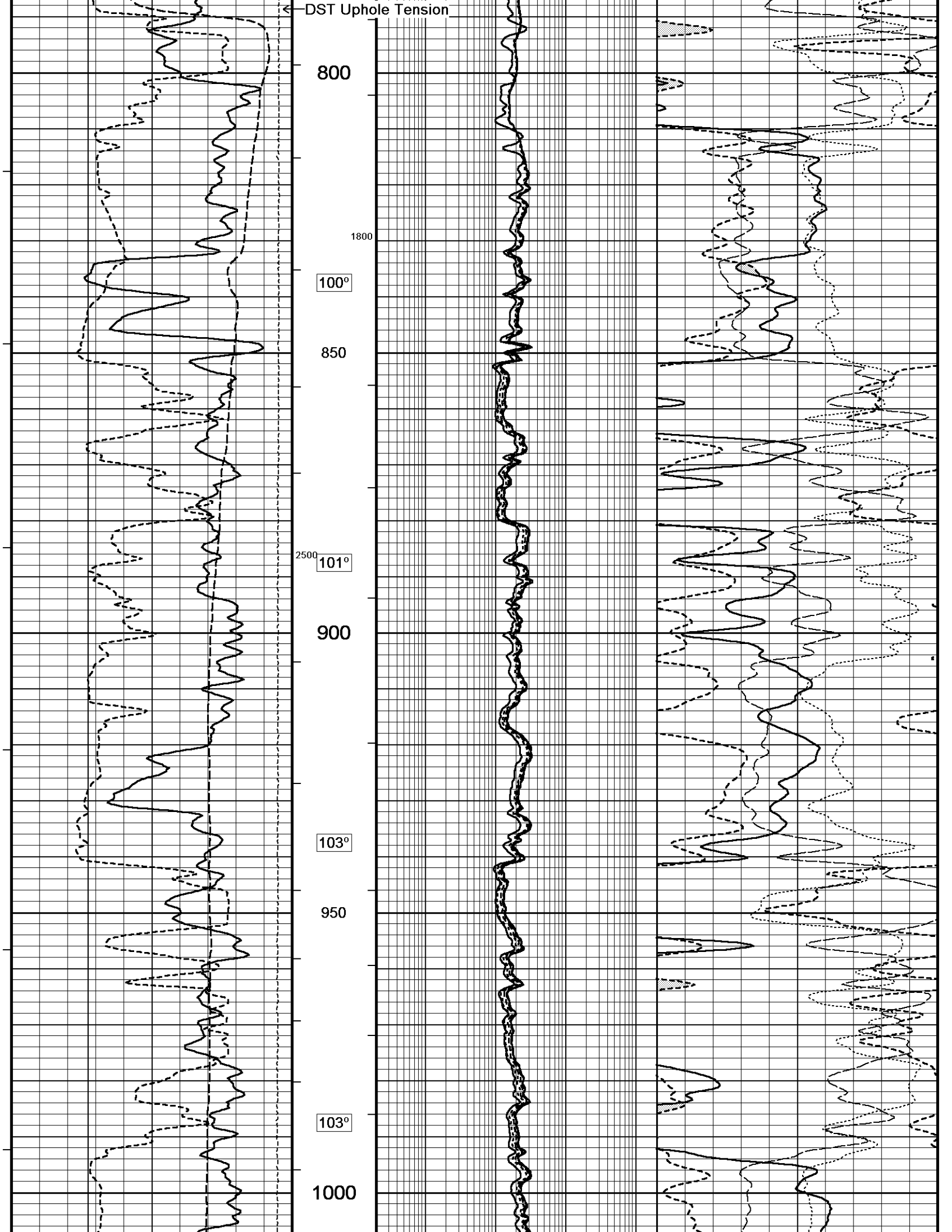
Sandstone Neutron Por.
percent
30 10 -10

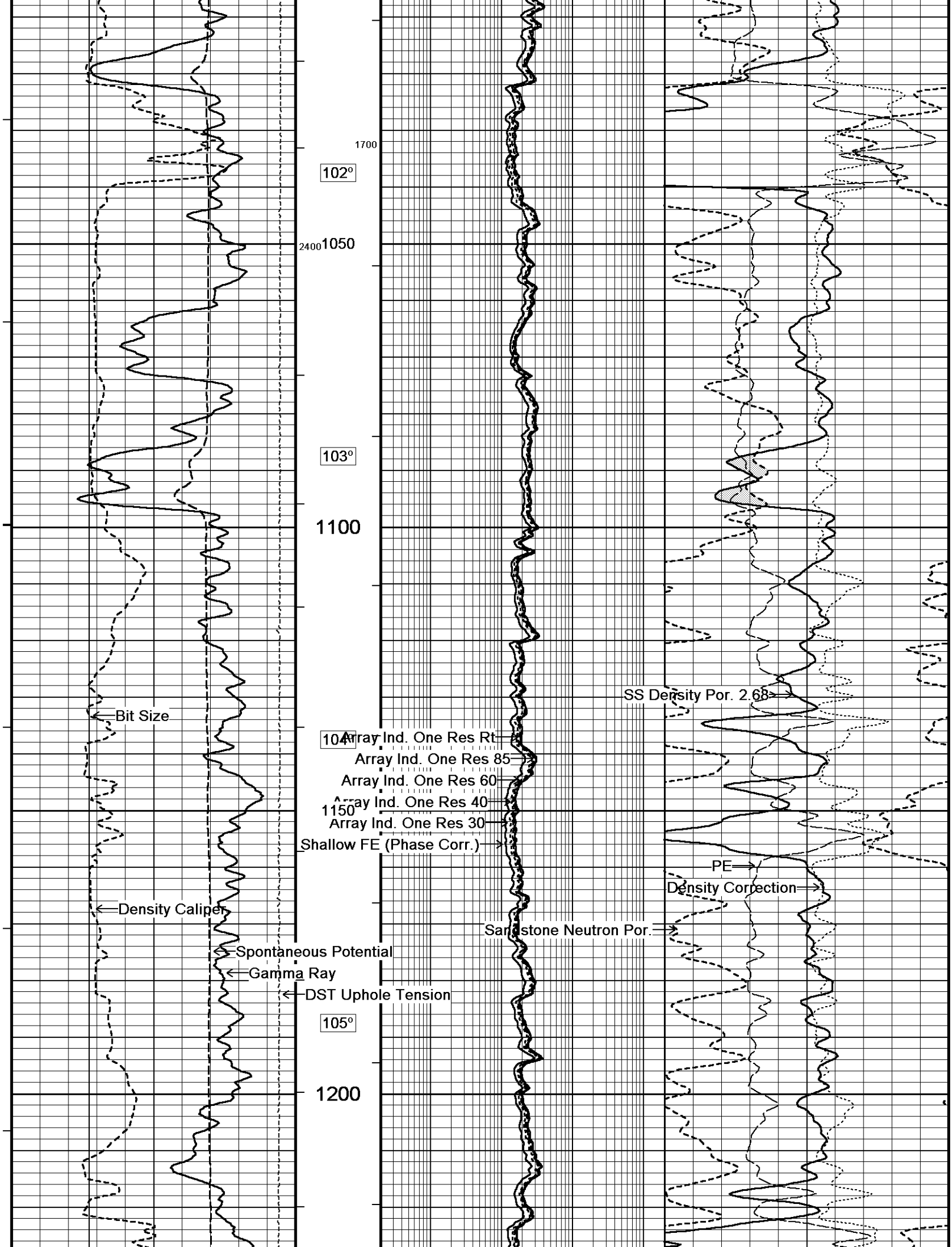
Density Correction
grams/cc
-0.25 0 0.25

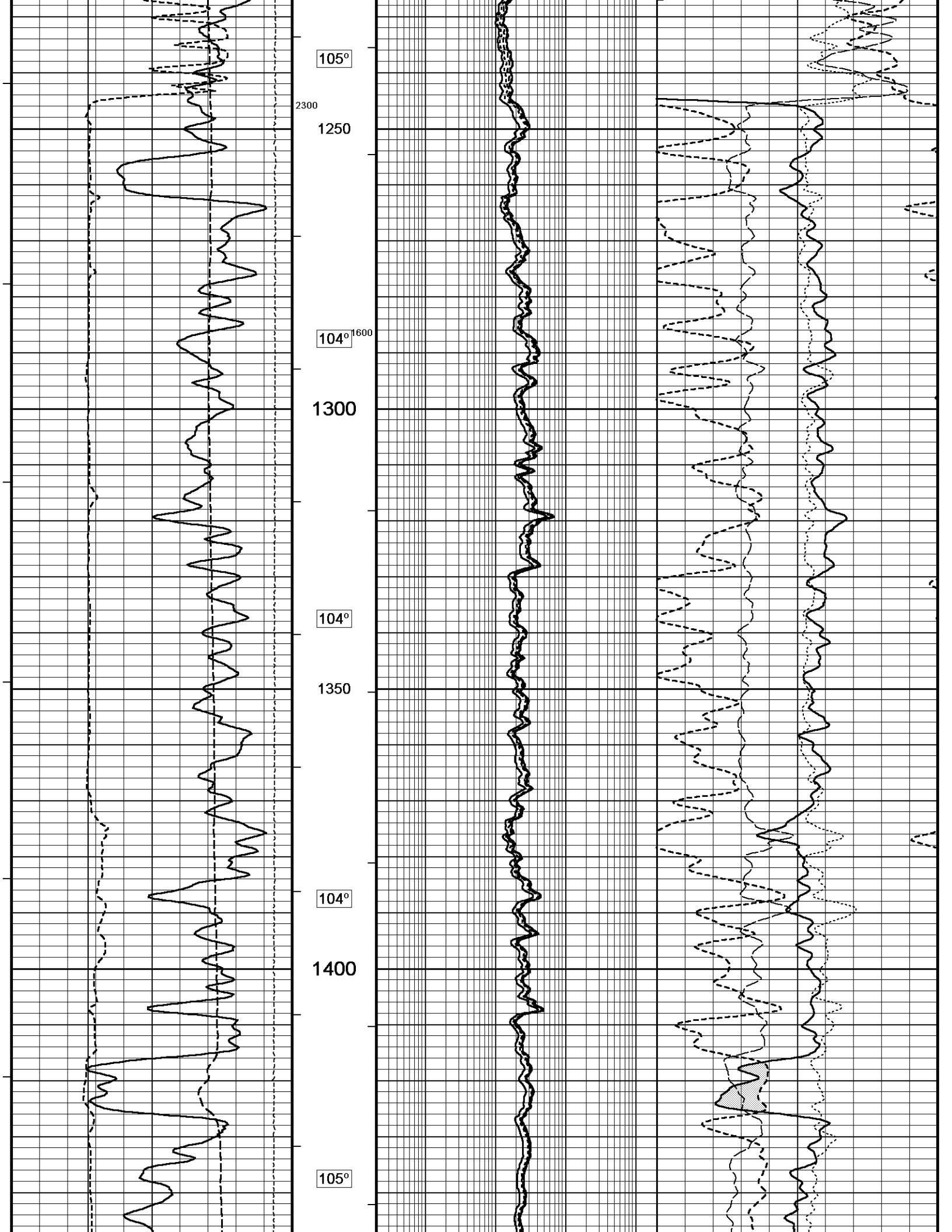
PE
barns/electron
0 5 10

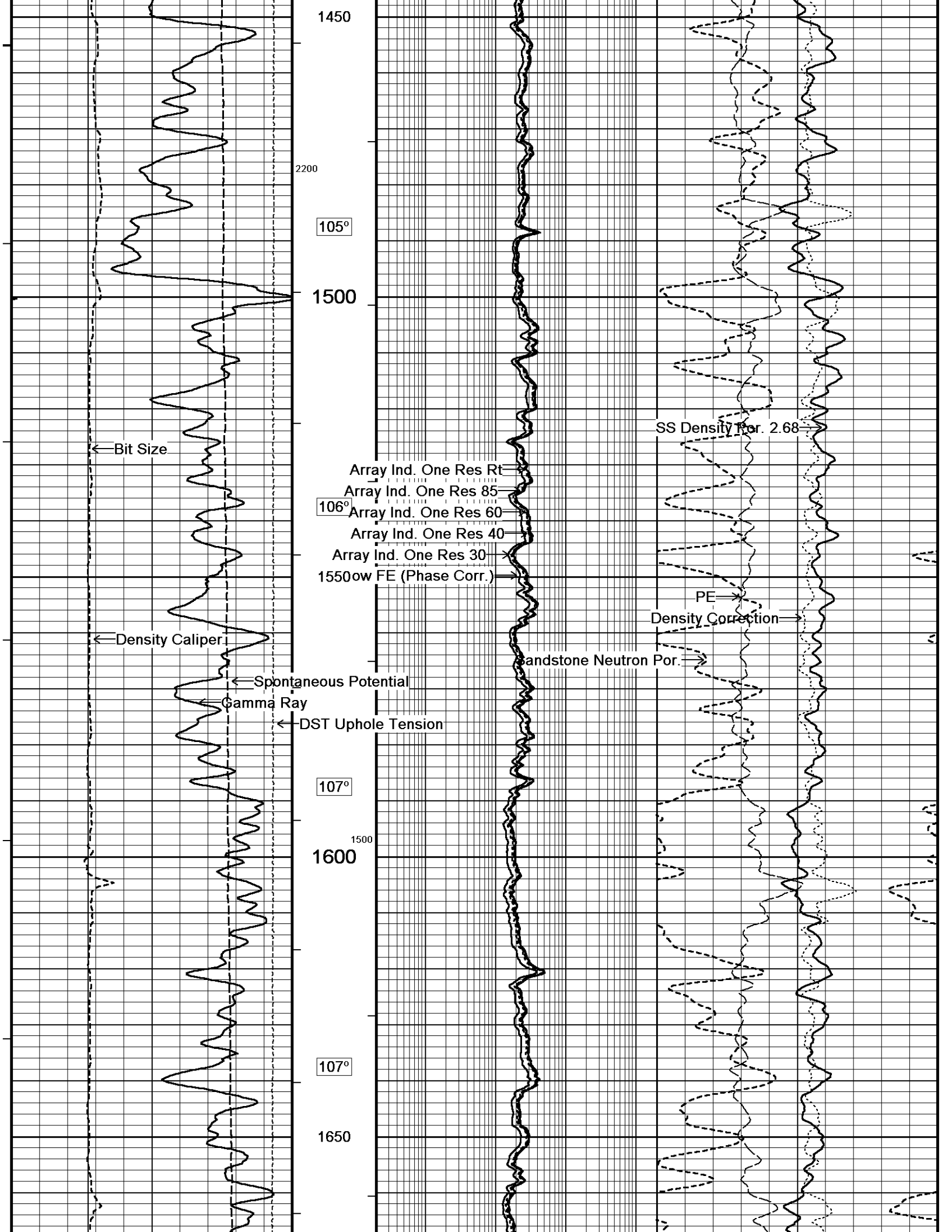
SS Density Por. 2.68
percent
30 10 -10

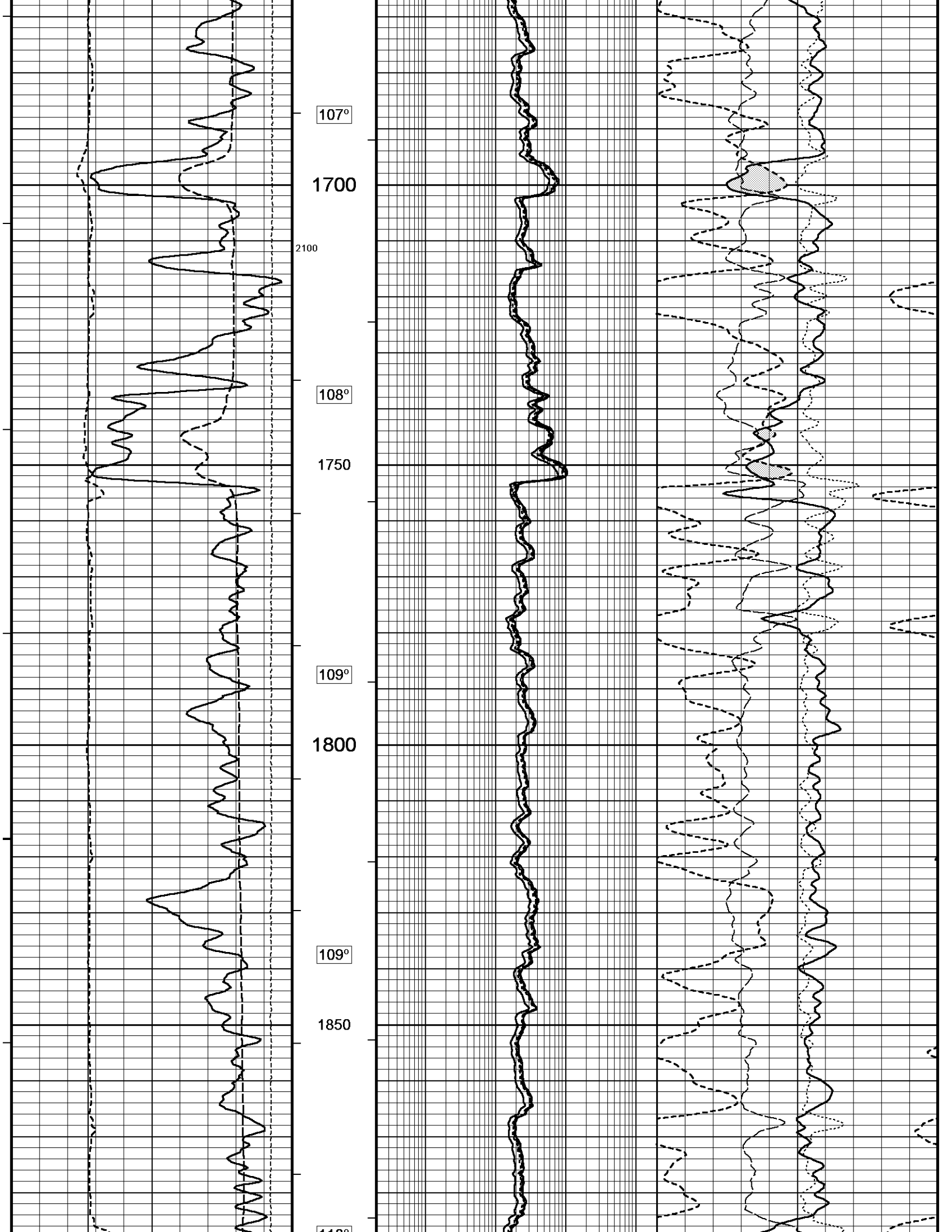


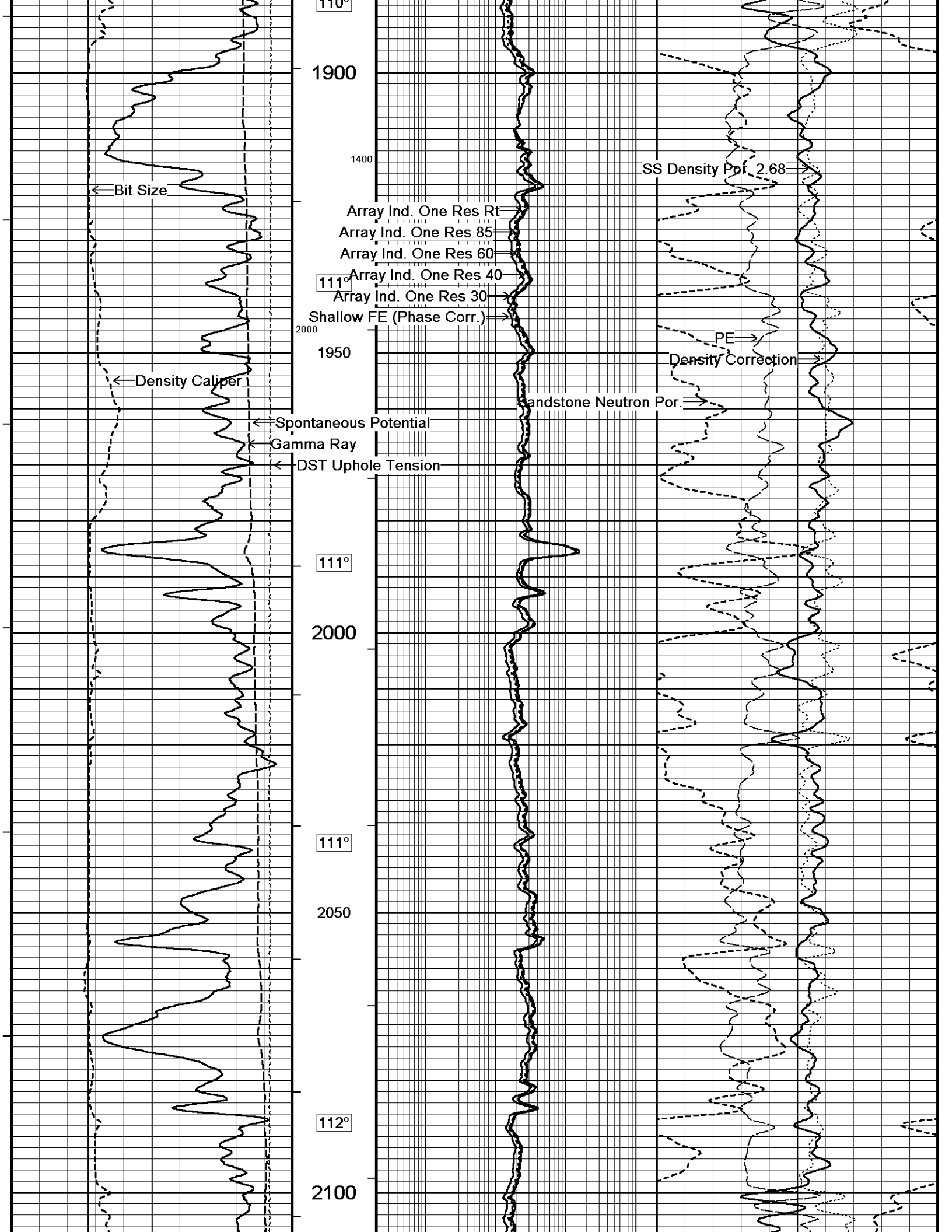

DST Uphole Tension
800
1800
100°
850
2500
101°
900
103°
950
103°
1000

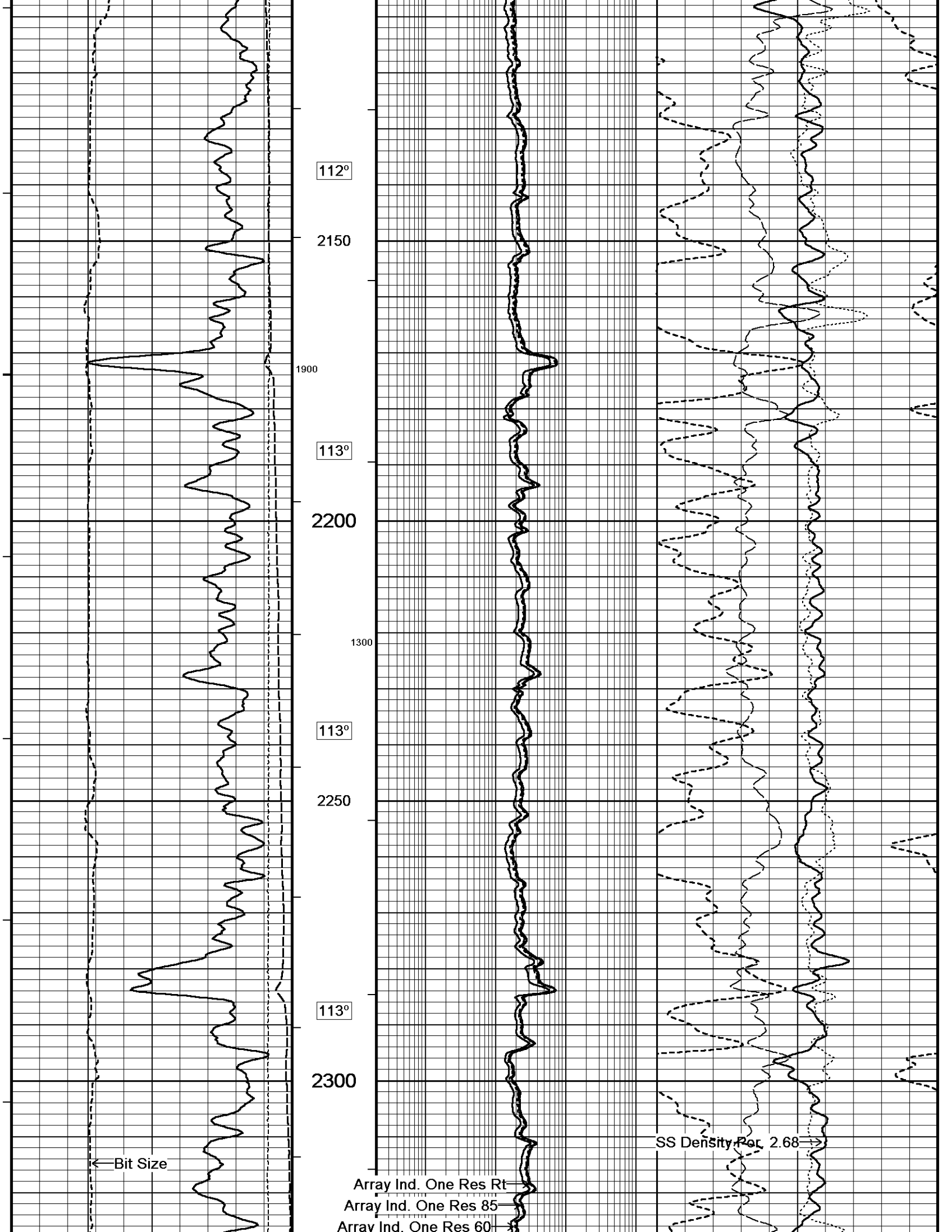

1700
102°
2400
1050
103°
1100
SS Density Por. 2.68
Bit Size
104°
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
1150
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
105°
1200

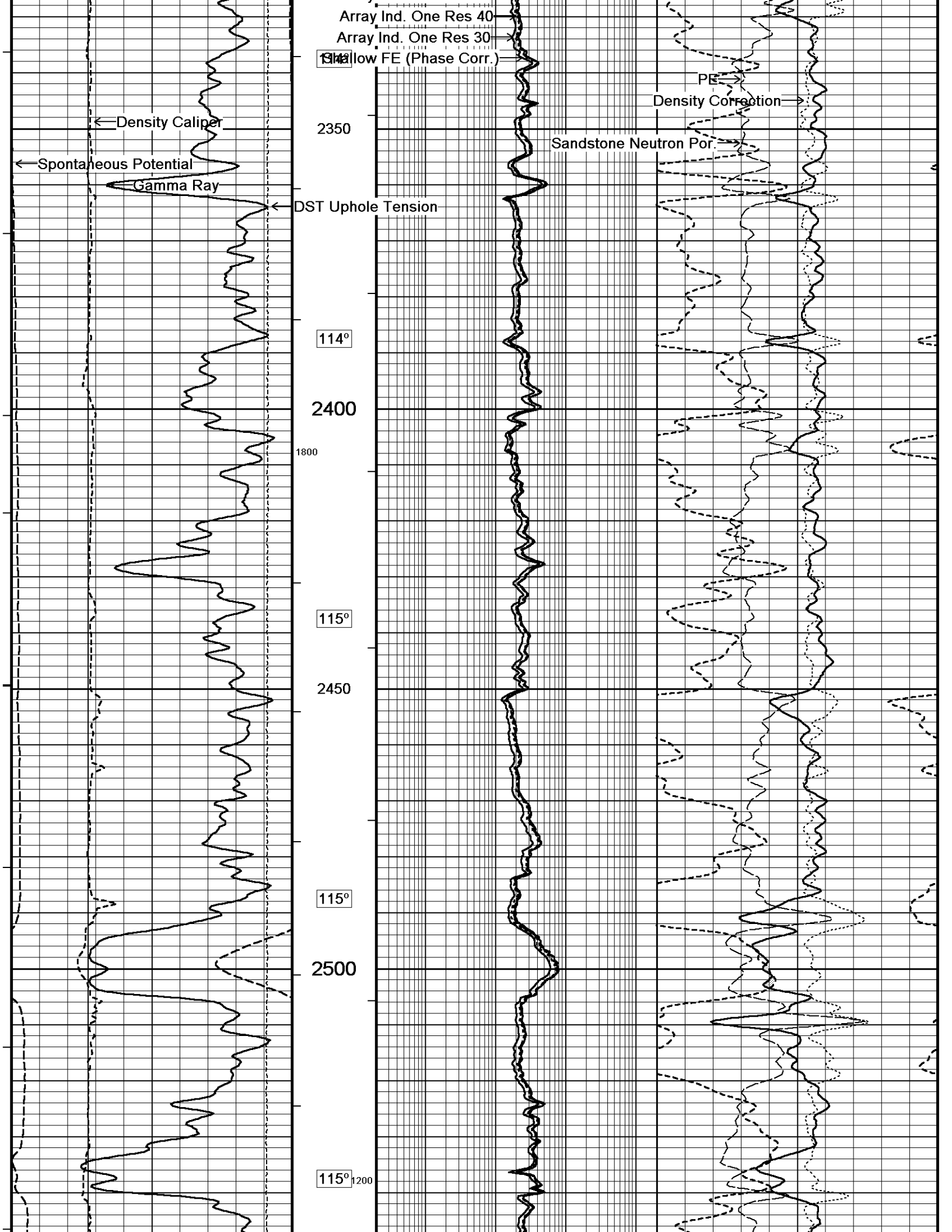

105°
2300
1250
104°
1600
1300
104°
1350
104°
1400
105°

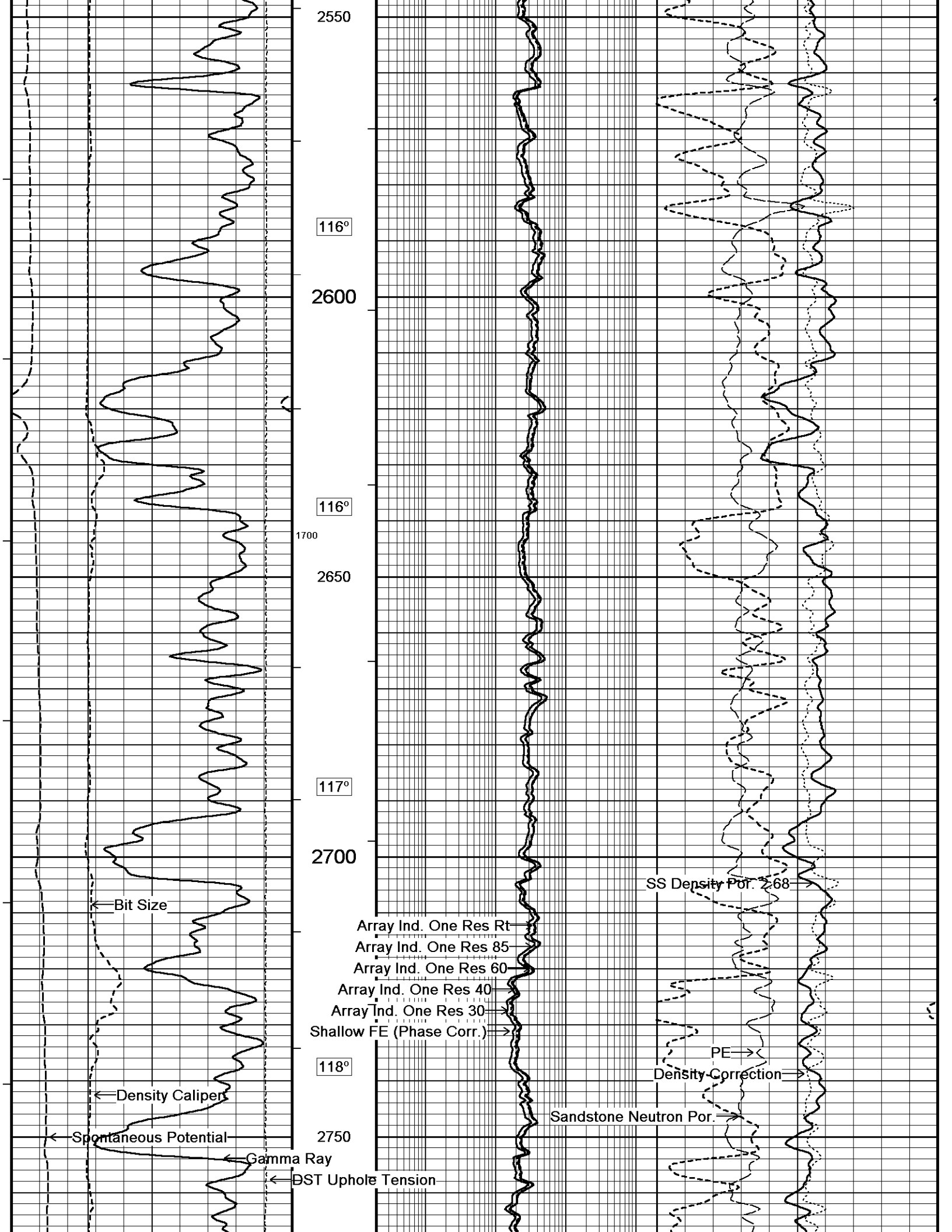

1450
2200
105°
1500
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
106°
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
1550
ow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
107°
1500
1600
107°
1650

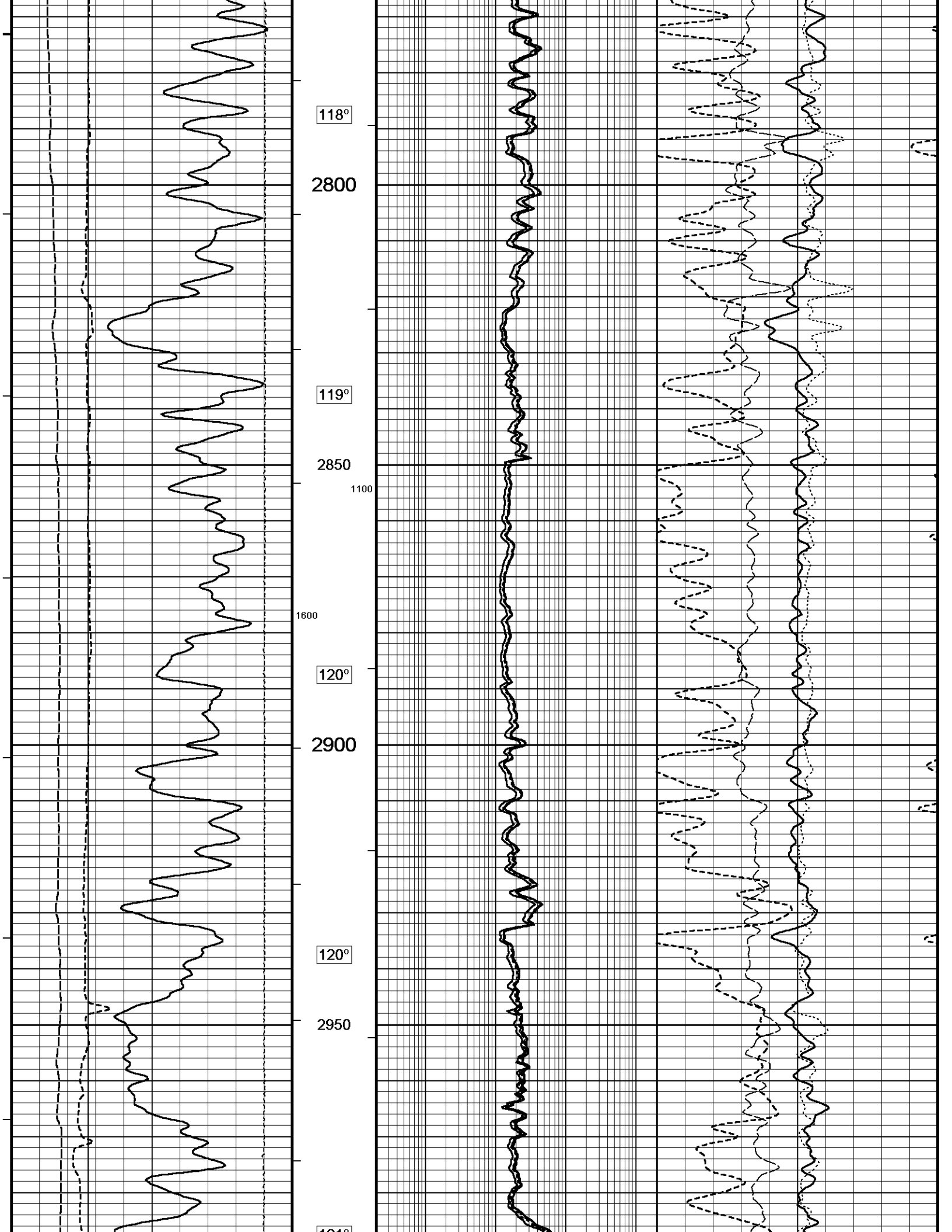

107°
1700
2100
108°
1750
109°
1800
109°
1850

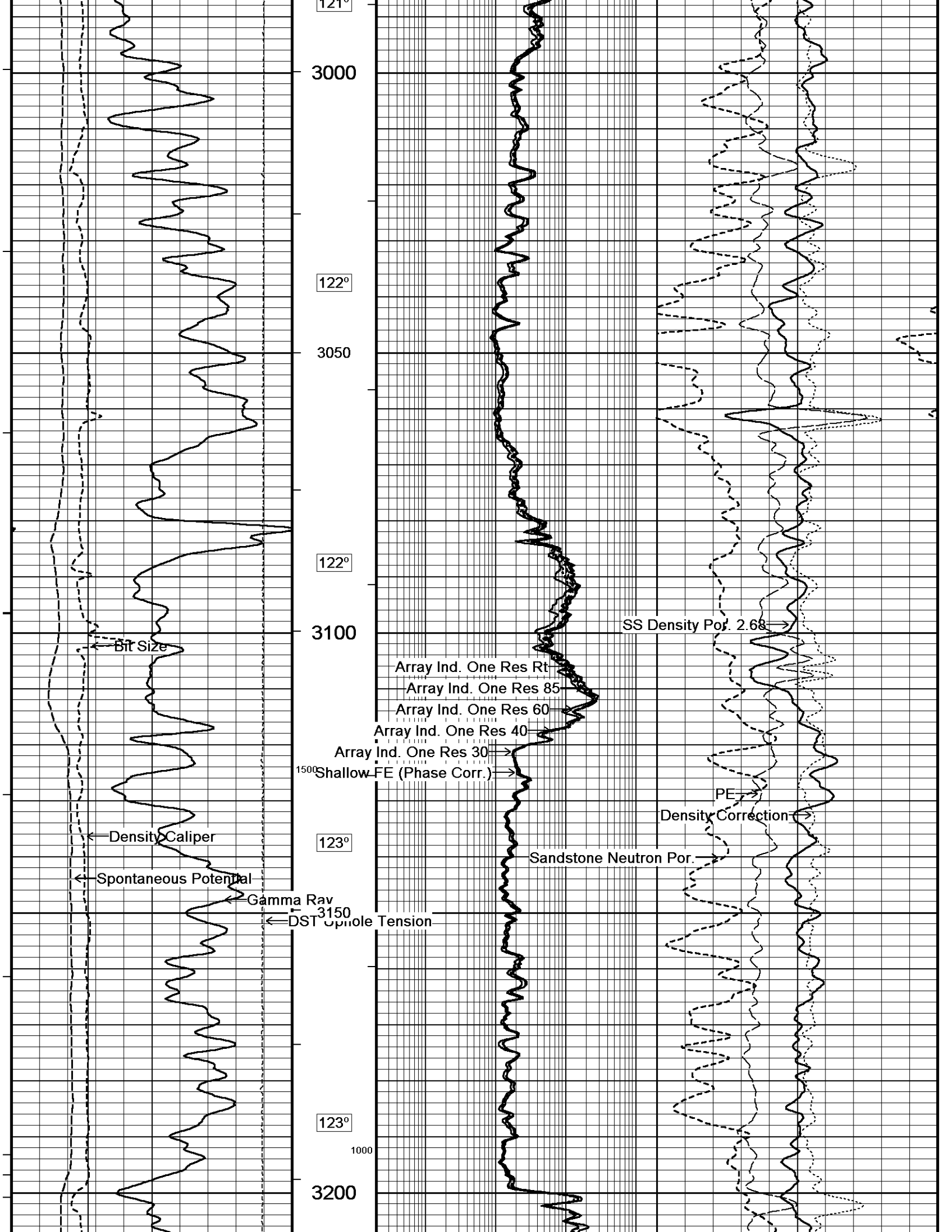

110°
1900
1400
SS Density Por. 2.68
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
111°
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
2000
1950
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
111°
2000
111°
2050
112°
2100

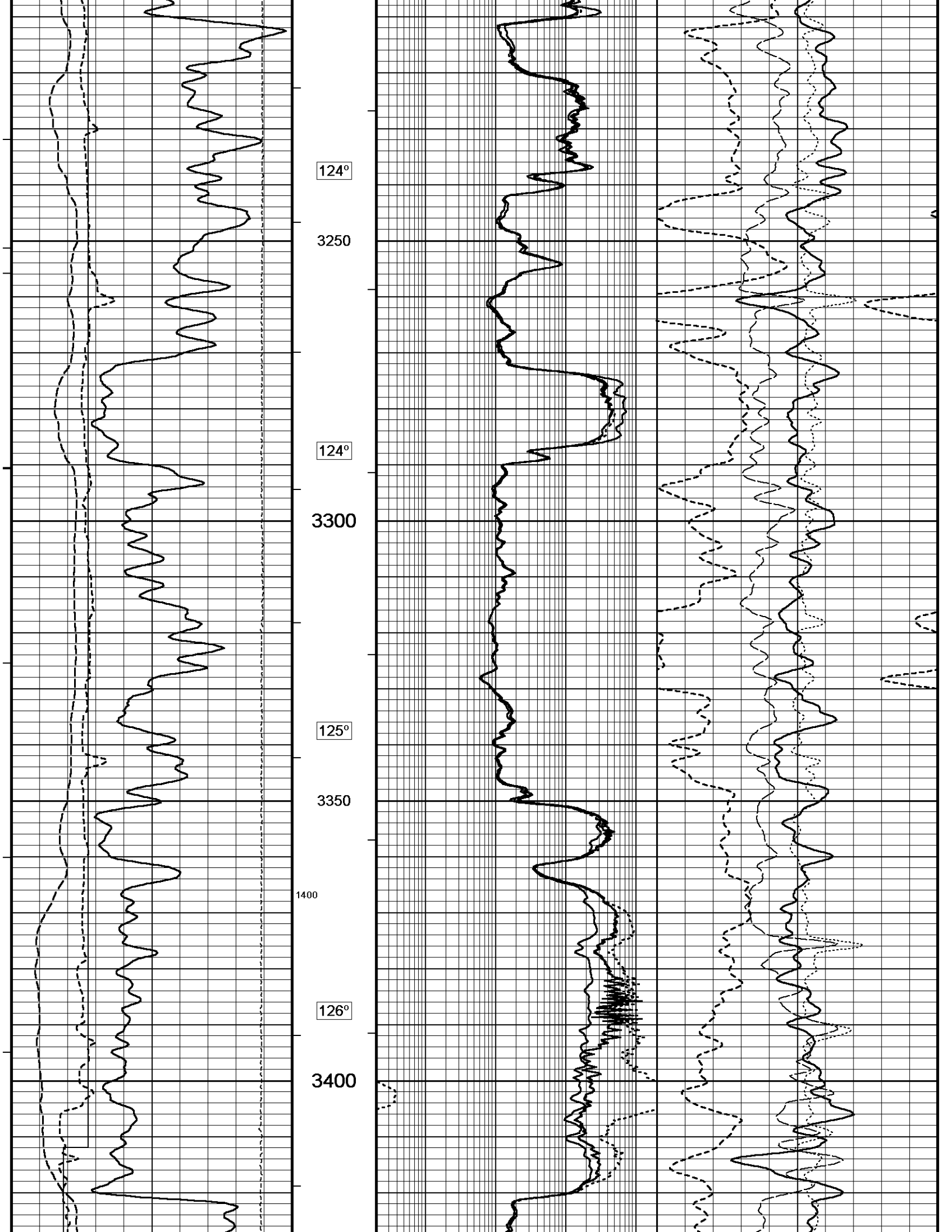

112°
2150
1900
113°
2200
1300
113°
2250
113°
2300
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
SS Density Por. 2.68

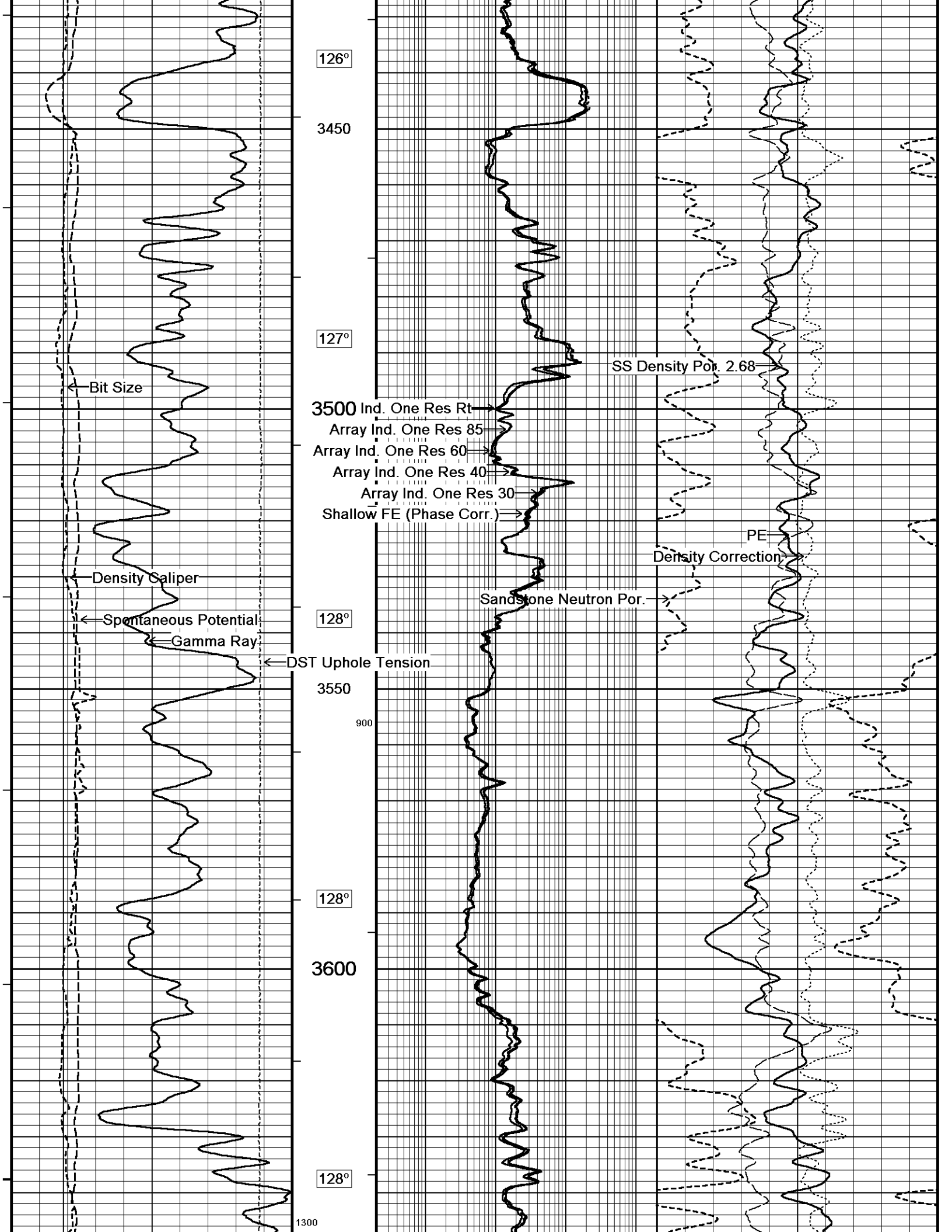

Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
Density Caliper
Sandstone Neutron Por
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2350
114°
2400
1800
115°
2450
115°
2500
115°
1200

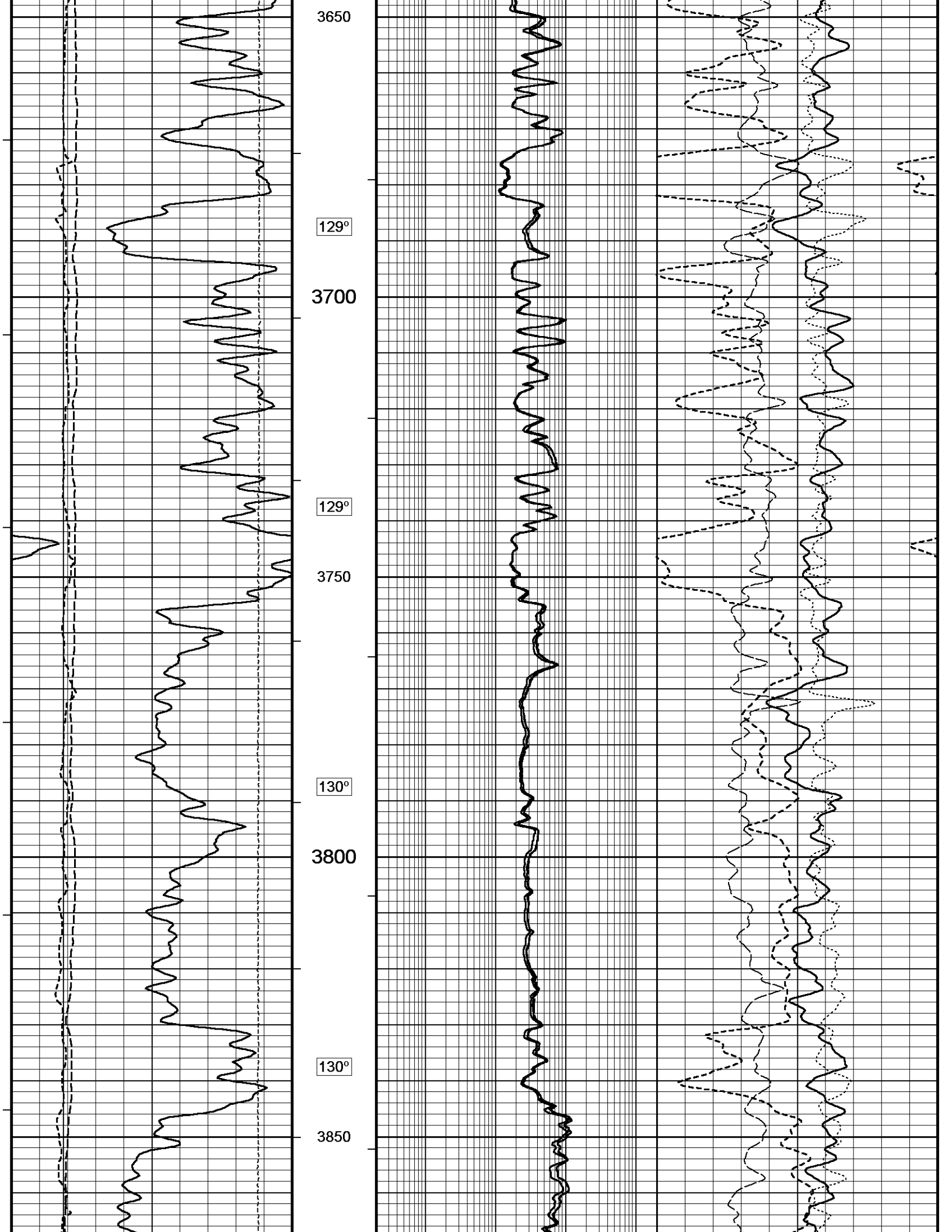

2550
116°
2600
116°
1700
2650
117°
2700
118°
2750
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.

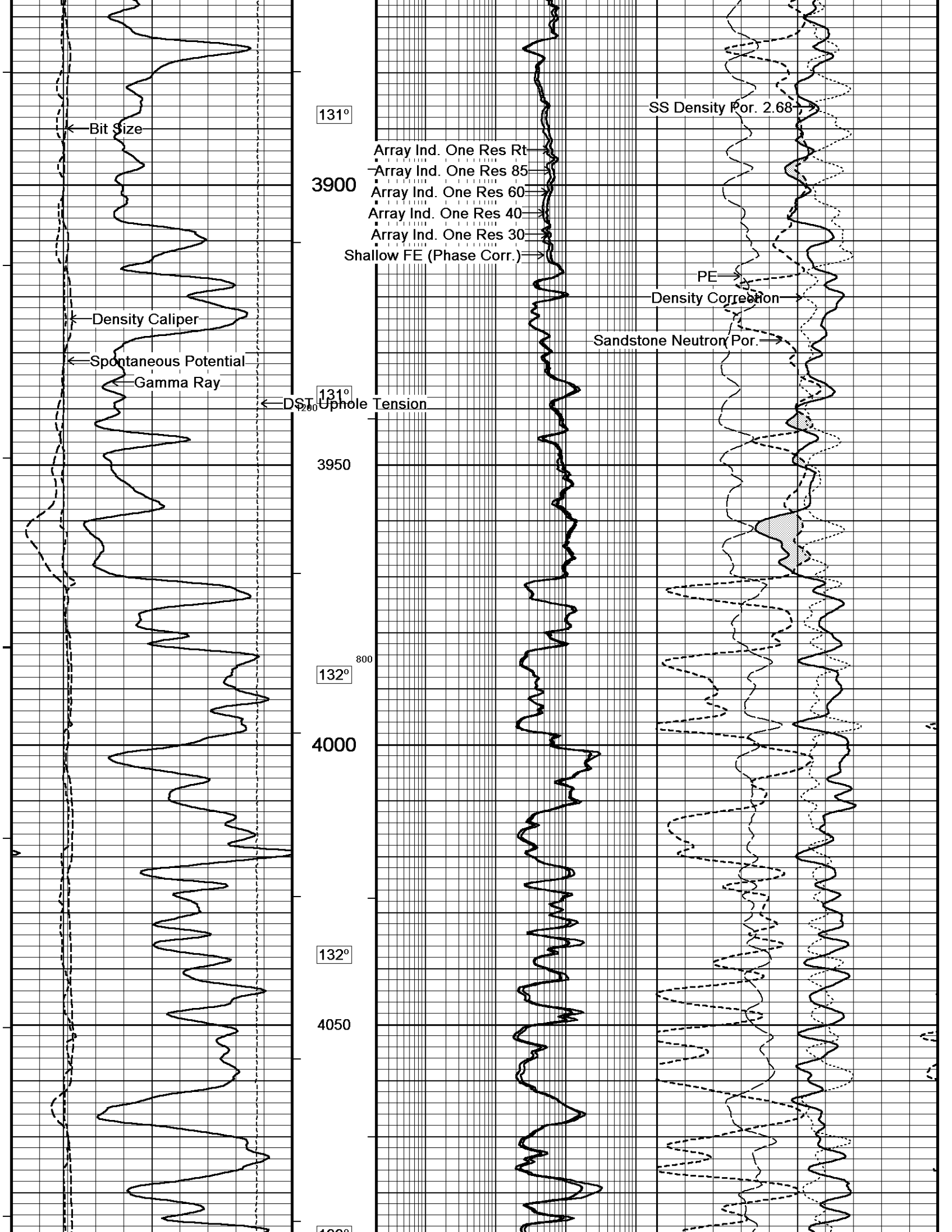

118°
2800
119°
2850
1100
1600
120°
2900
120°
2950

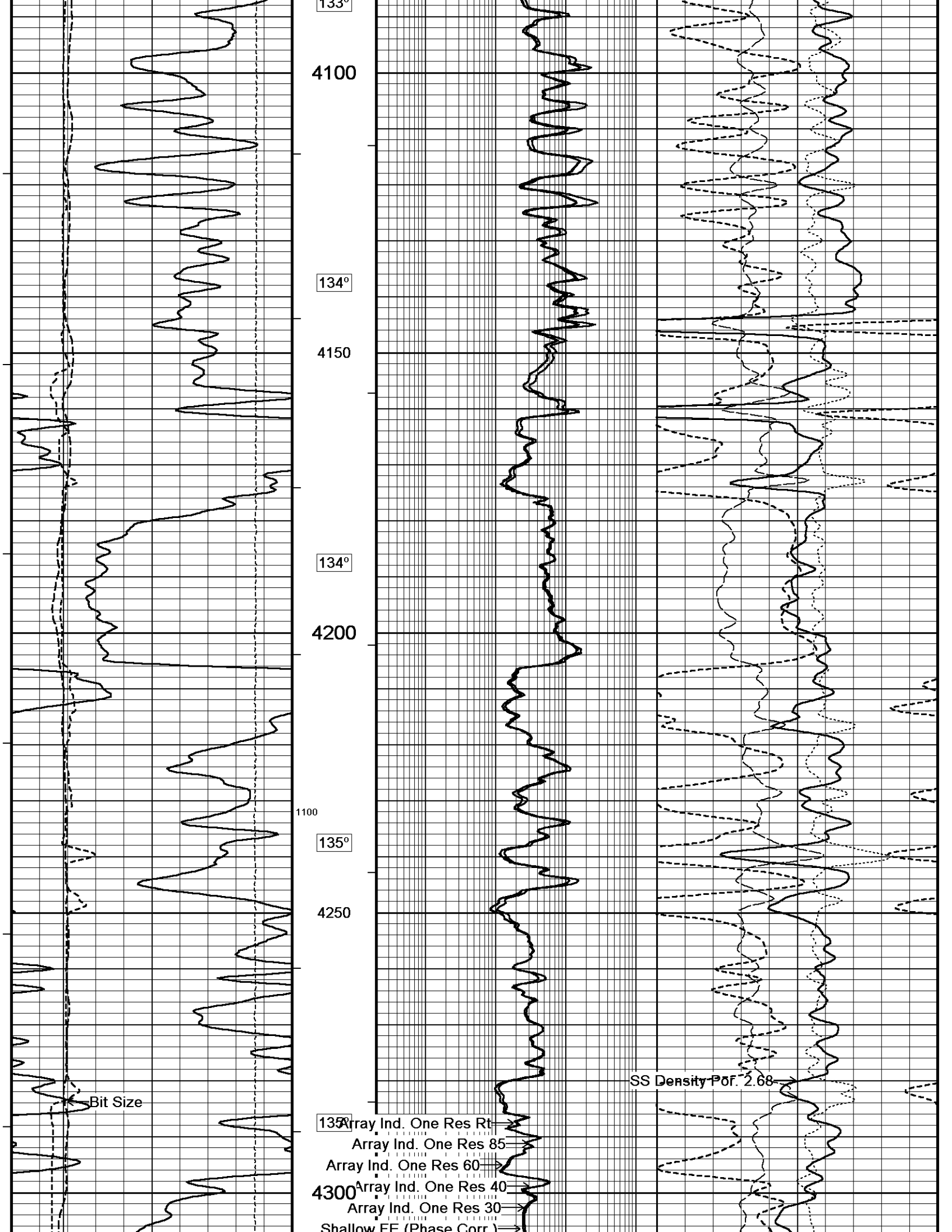

121°
3000
122°
3050
122°
3100
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
1500
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
123°
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
3150
DST Ophole Tension
123°
1000
3200

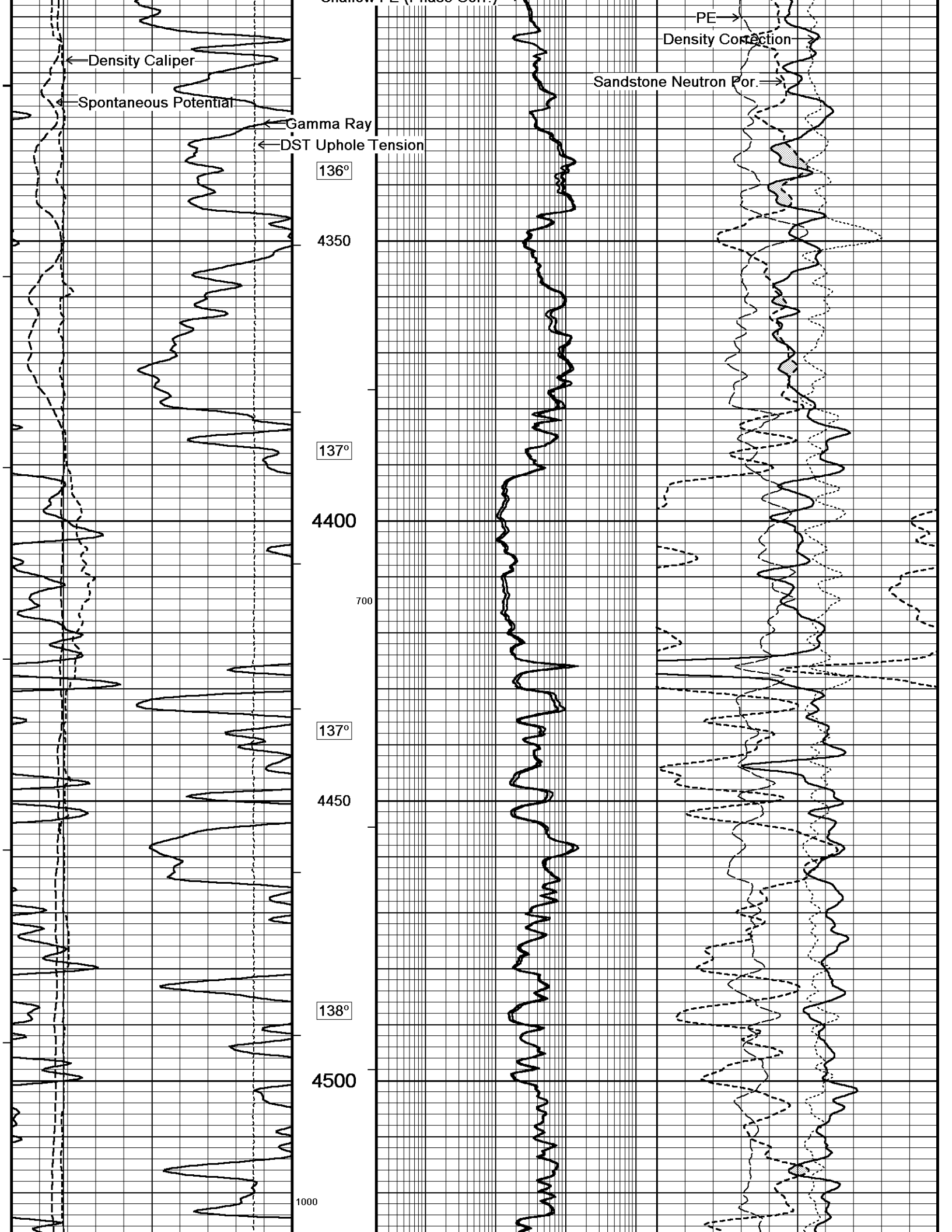

124°
3250
124°
3300
125°
3350
1400
126°
3400

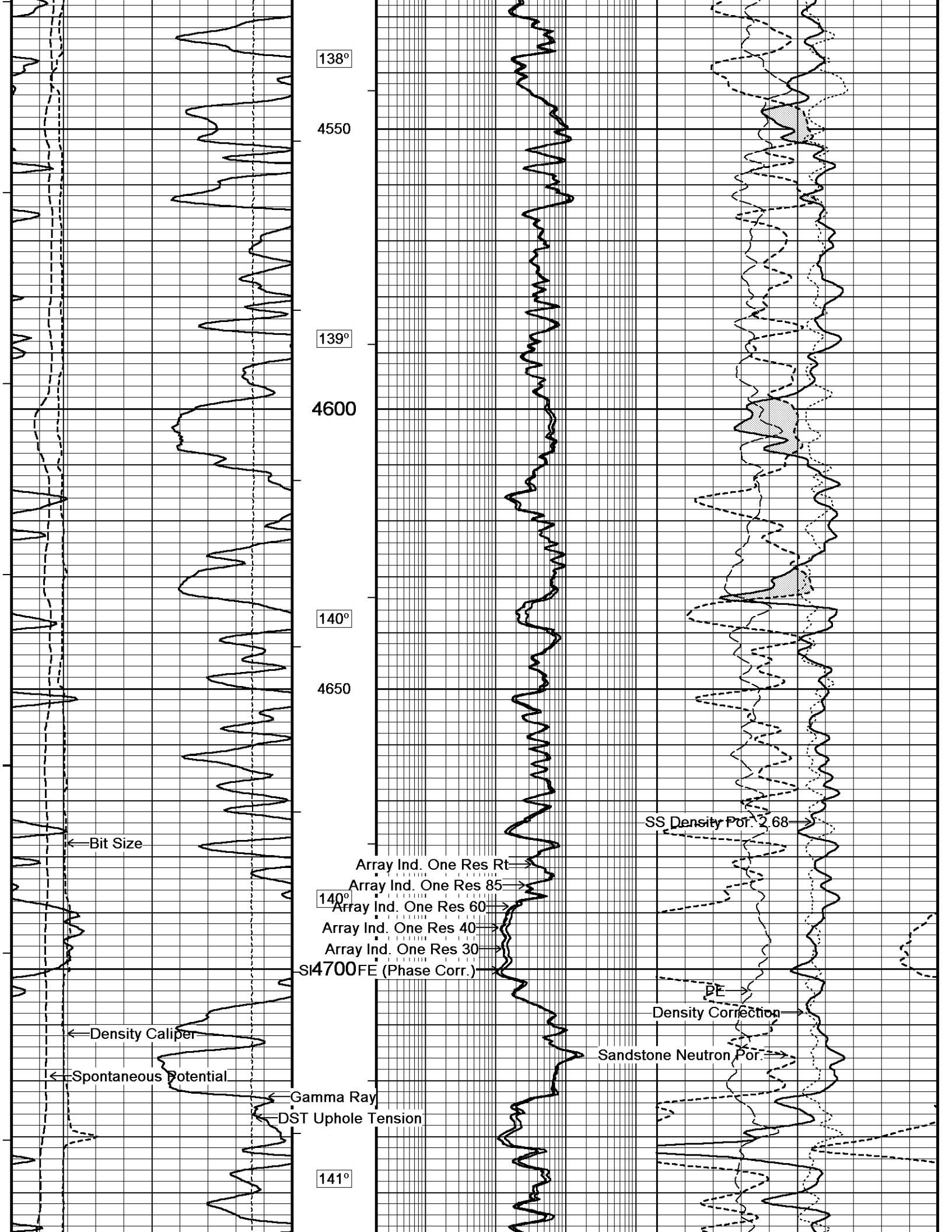

126°
3450
127°
Bit Size
3500
Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
128°
Gamma Ray
DST Uphole Tension
3550
900
128°
3600
128°
1300

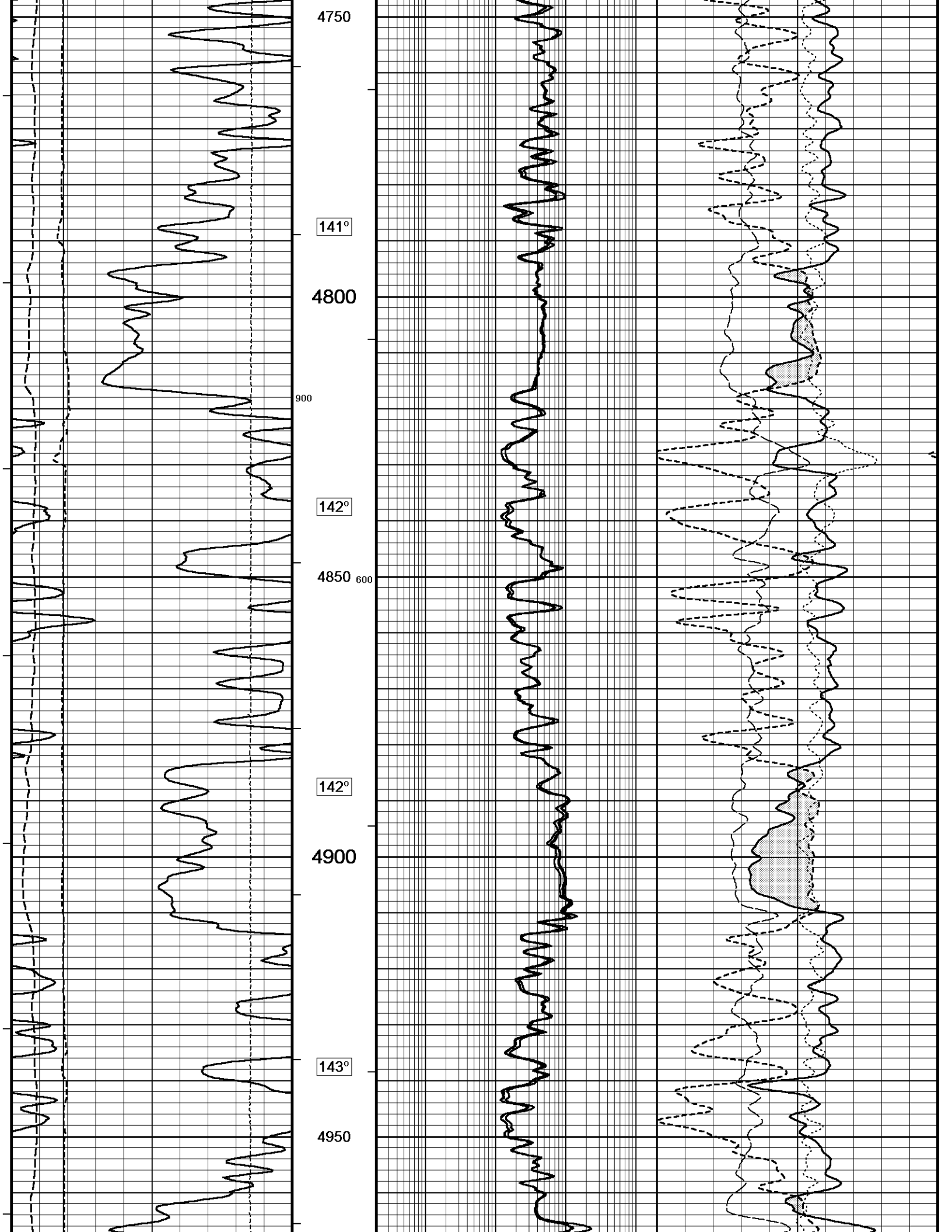

3650
129°
3700
129°
3750
130°
3800
130°
3850

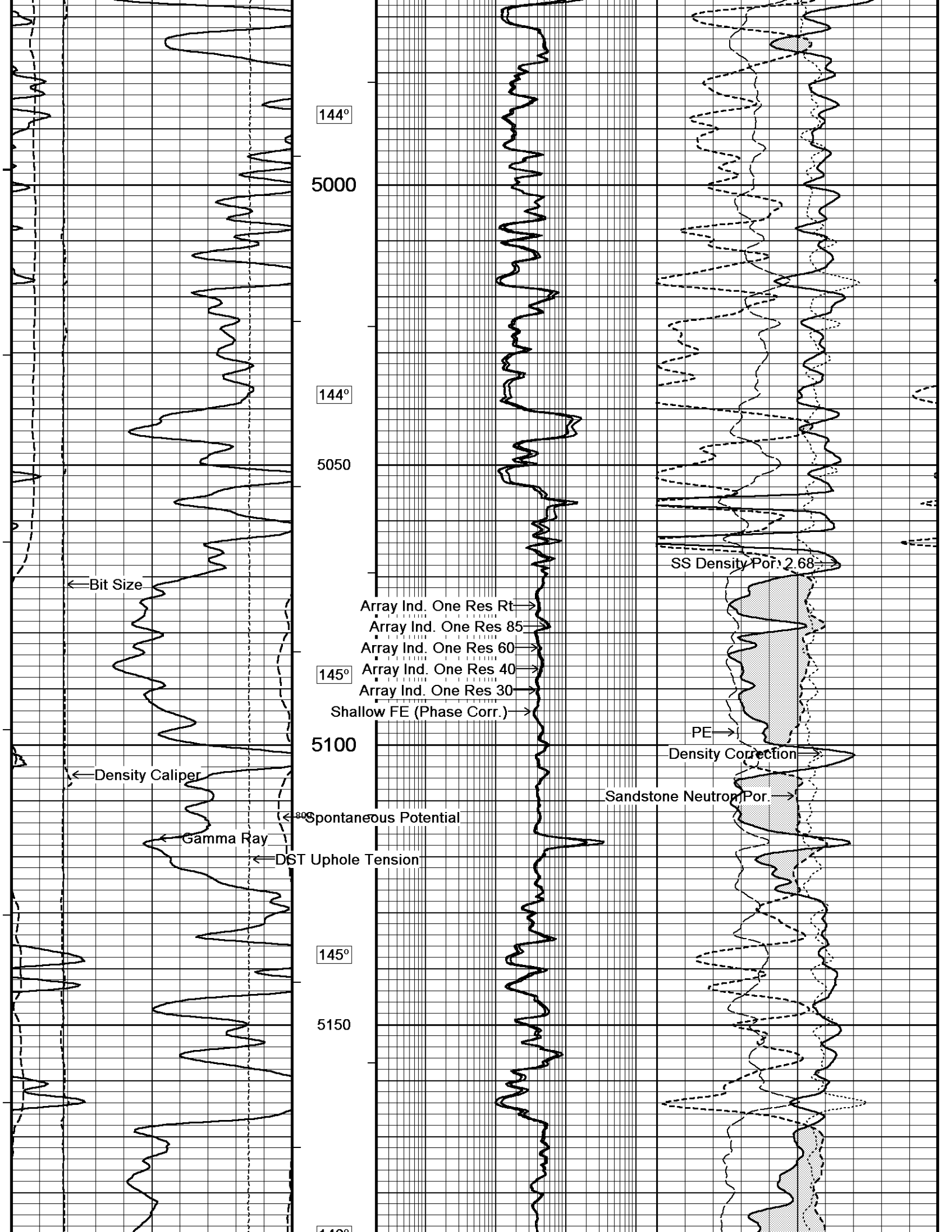

Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
4200
131°
3900
131°
3950
800
132°
4000
132°
4050
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.

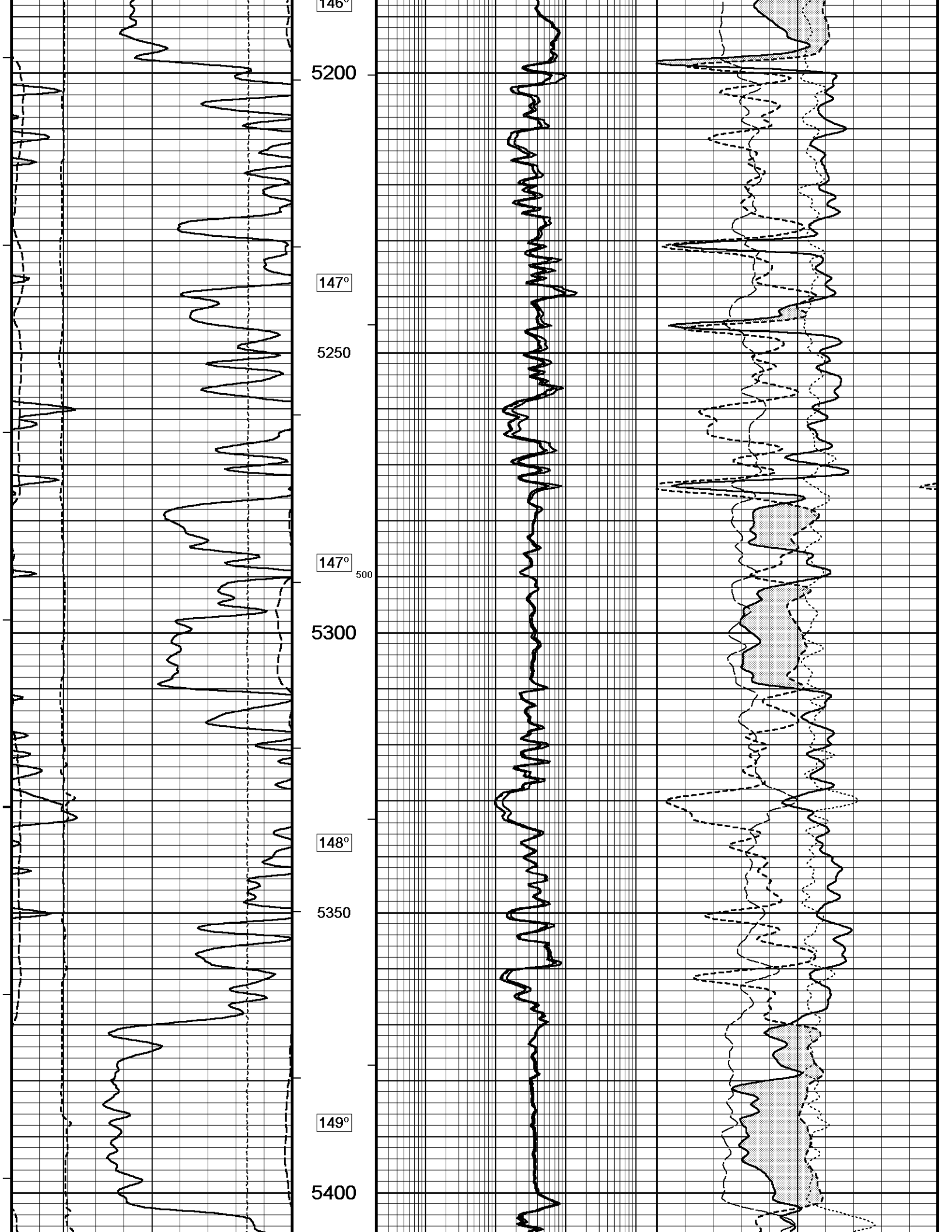

133°
4100
134°
4150
134°
4200
1100
135°
4250
135°
4300
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FF (Phase Corr.)
SS Density Por. 2.68

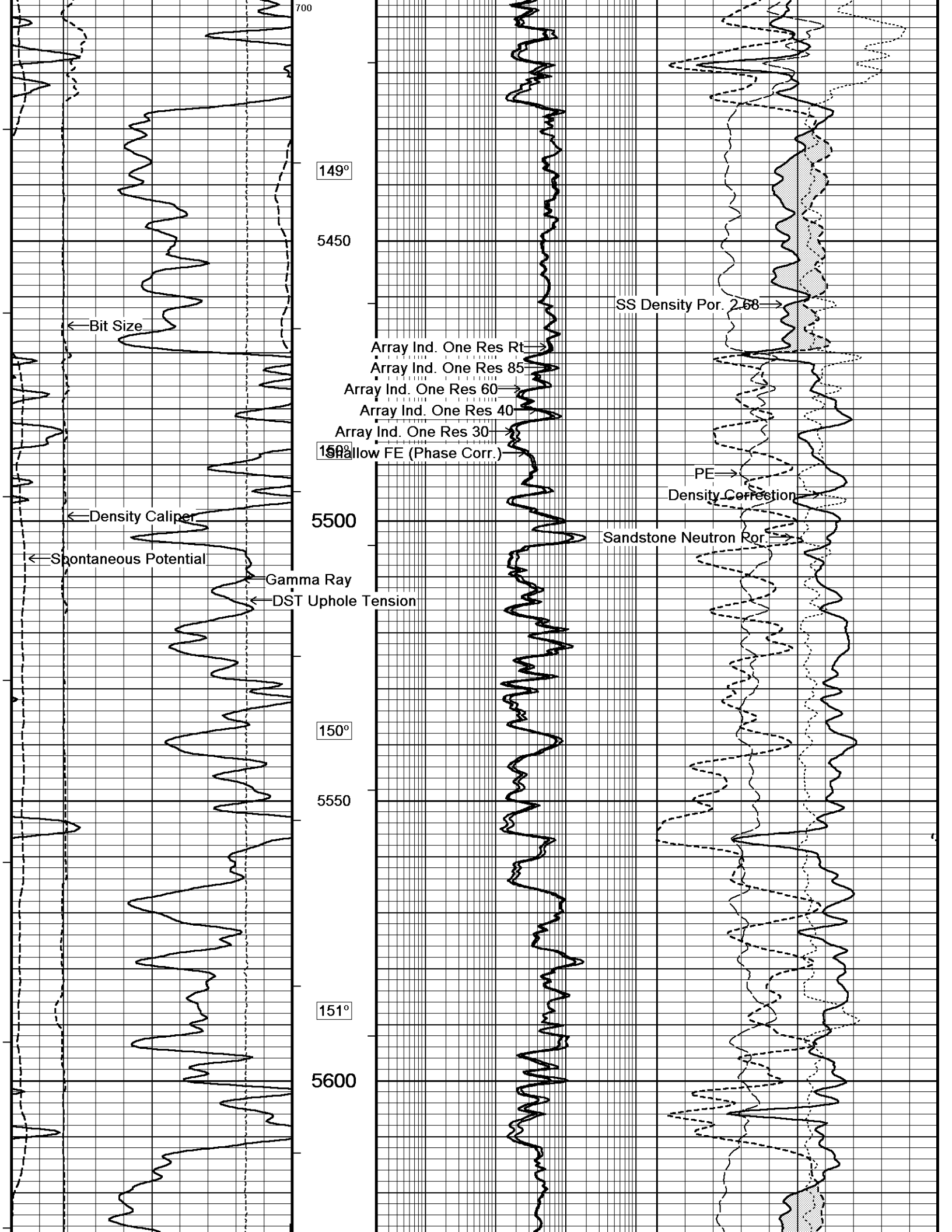

Shallow PE (Phase Corr.)
PE
Density Correction
Sandstone Neutron Por.
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
136°
4350
137°
4400
700
137°
4450
138°
4500
1000

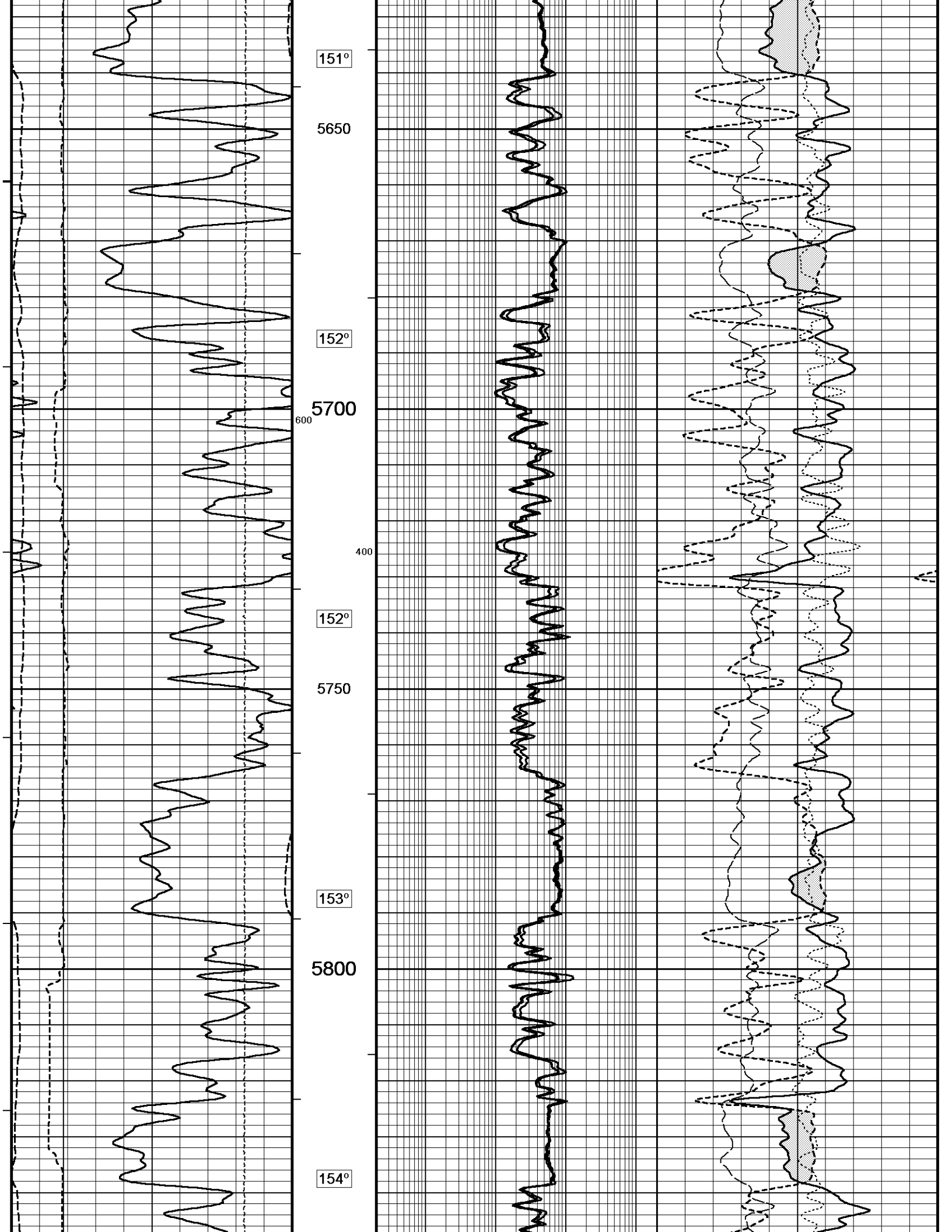

138°
4550
139°
4600
140°
4650
140°
141°
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
SI4700FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.

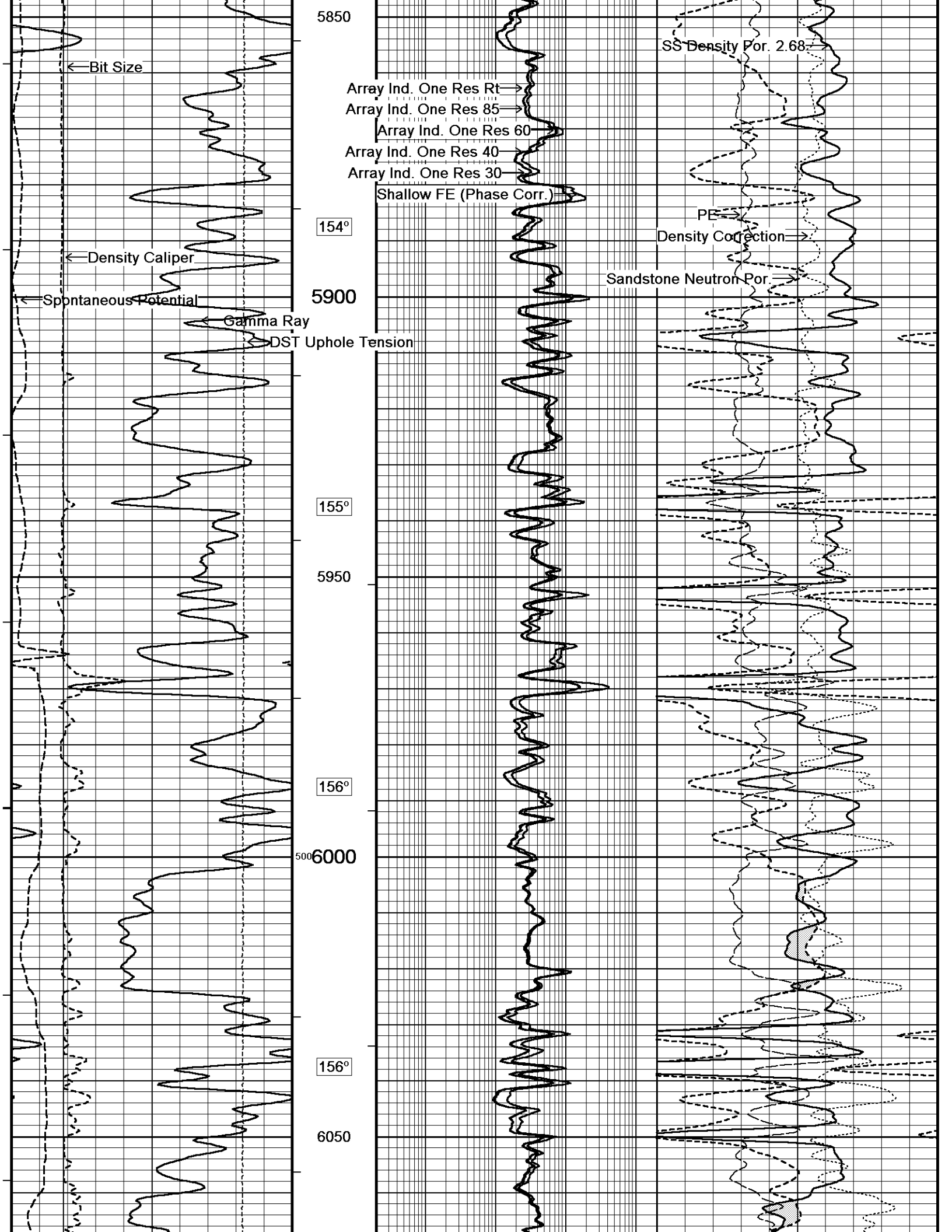

4750
141°
4800
900
142°
4850
600
142°
4900
143°
4950

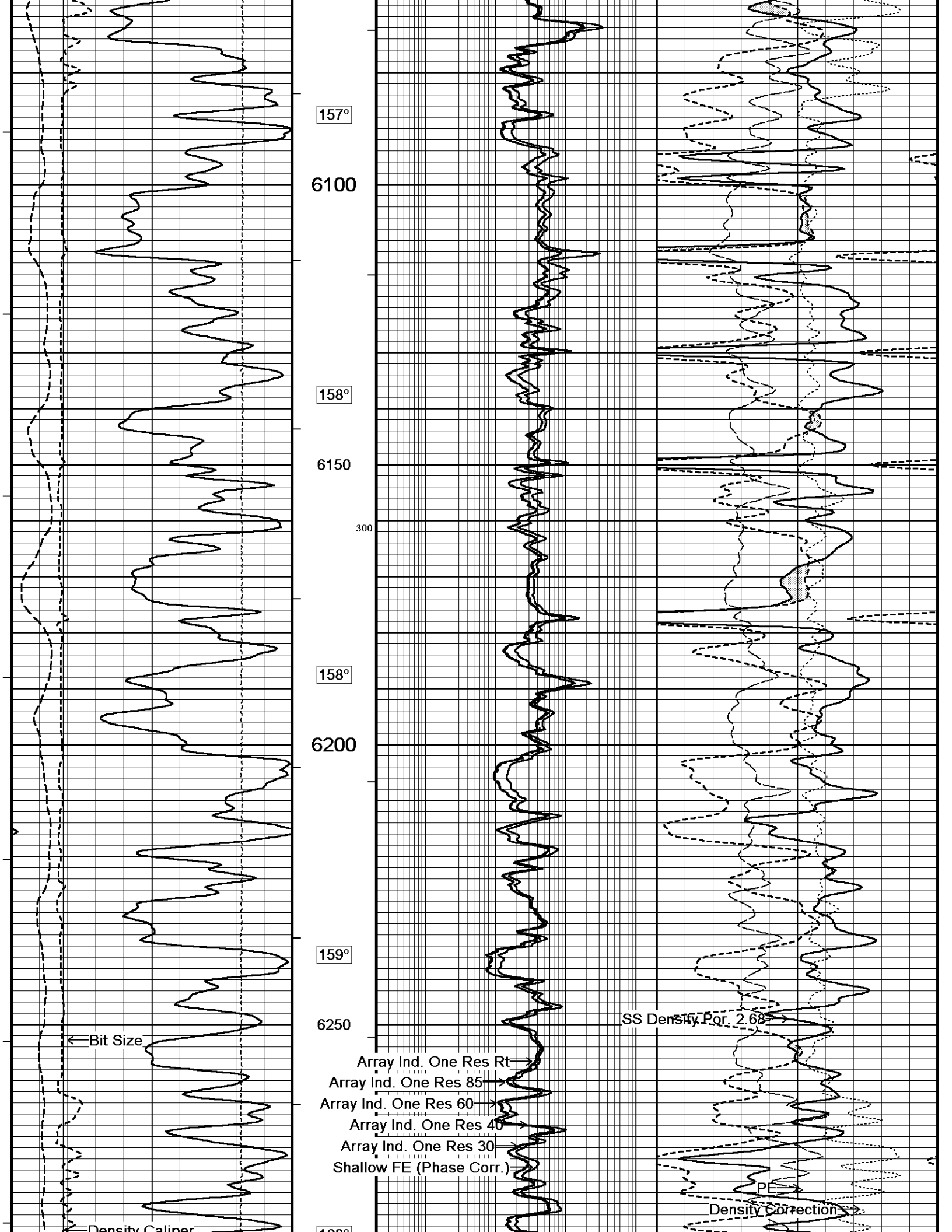

144°
5000
144°
5050
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
145°
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por 2.68
PE
5100
Density Caliper
Density Correction
Sandstone Neutron Por
Spontaneous Potential
Gamma Ray
DST Uphole Tension
145°
5150

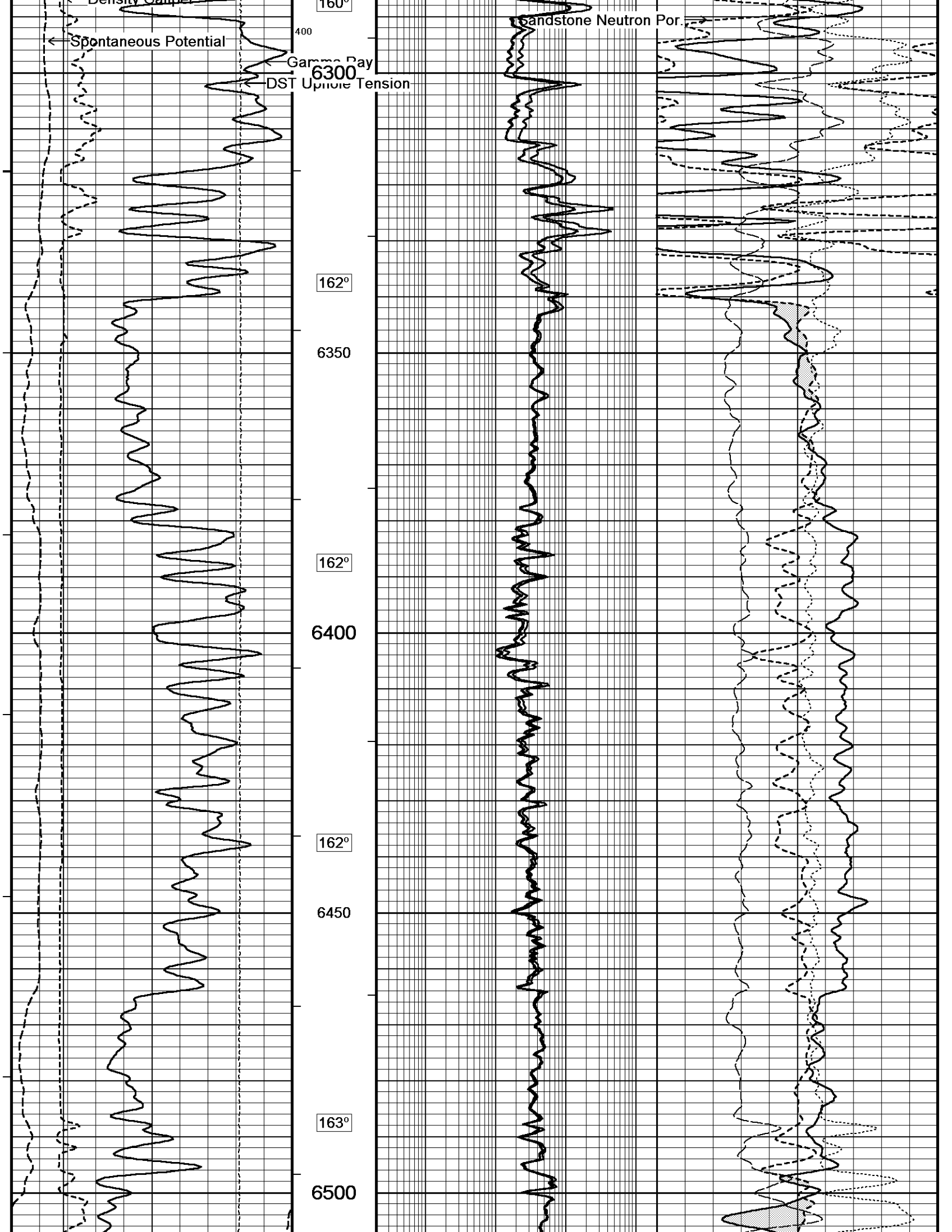

146°
5200
147°
5250
147°
500
5300
148°
5350
149°
5400

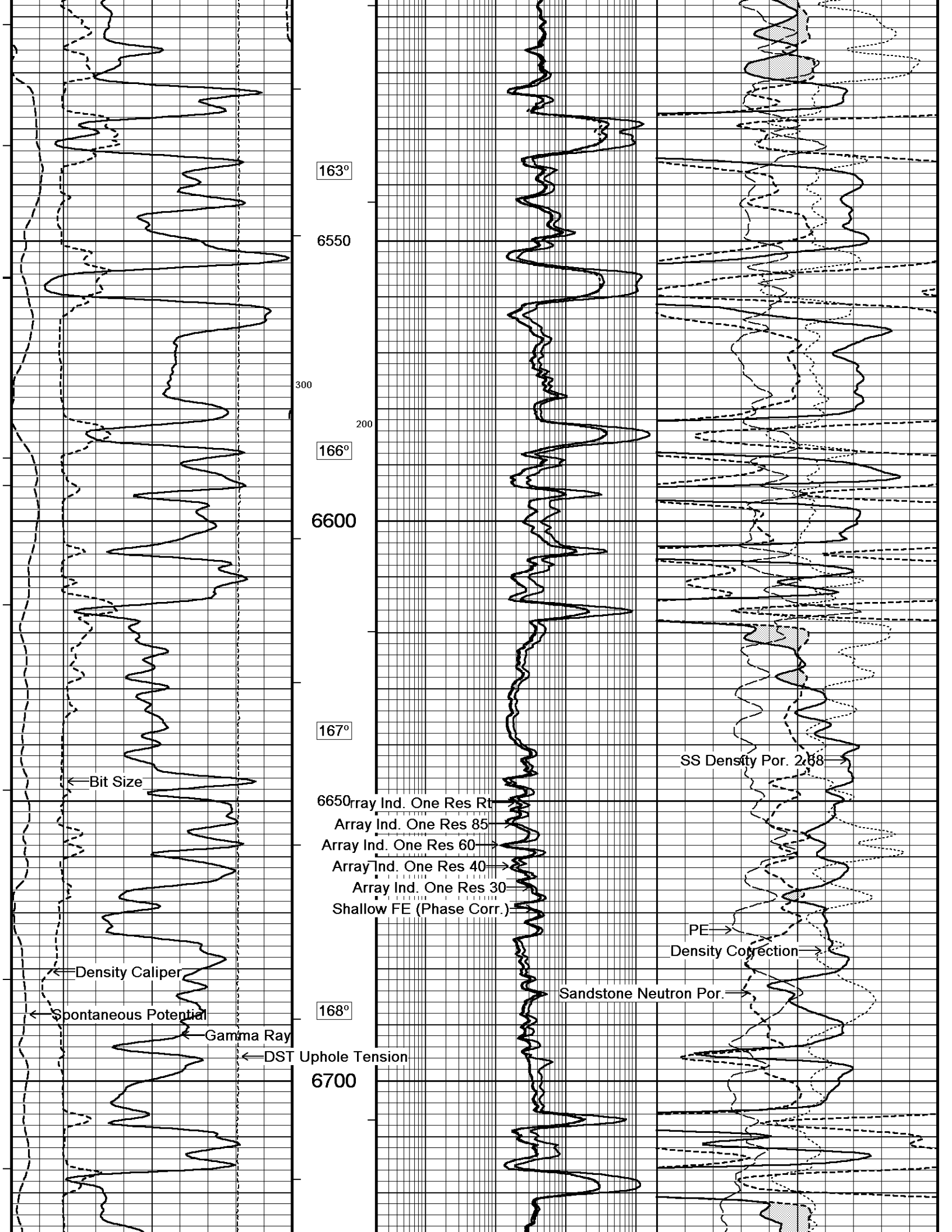

700
149°
5450
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
5500
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
150°
5550
151°
5600

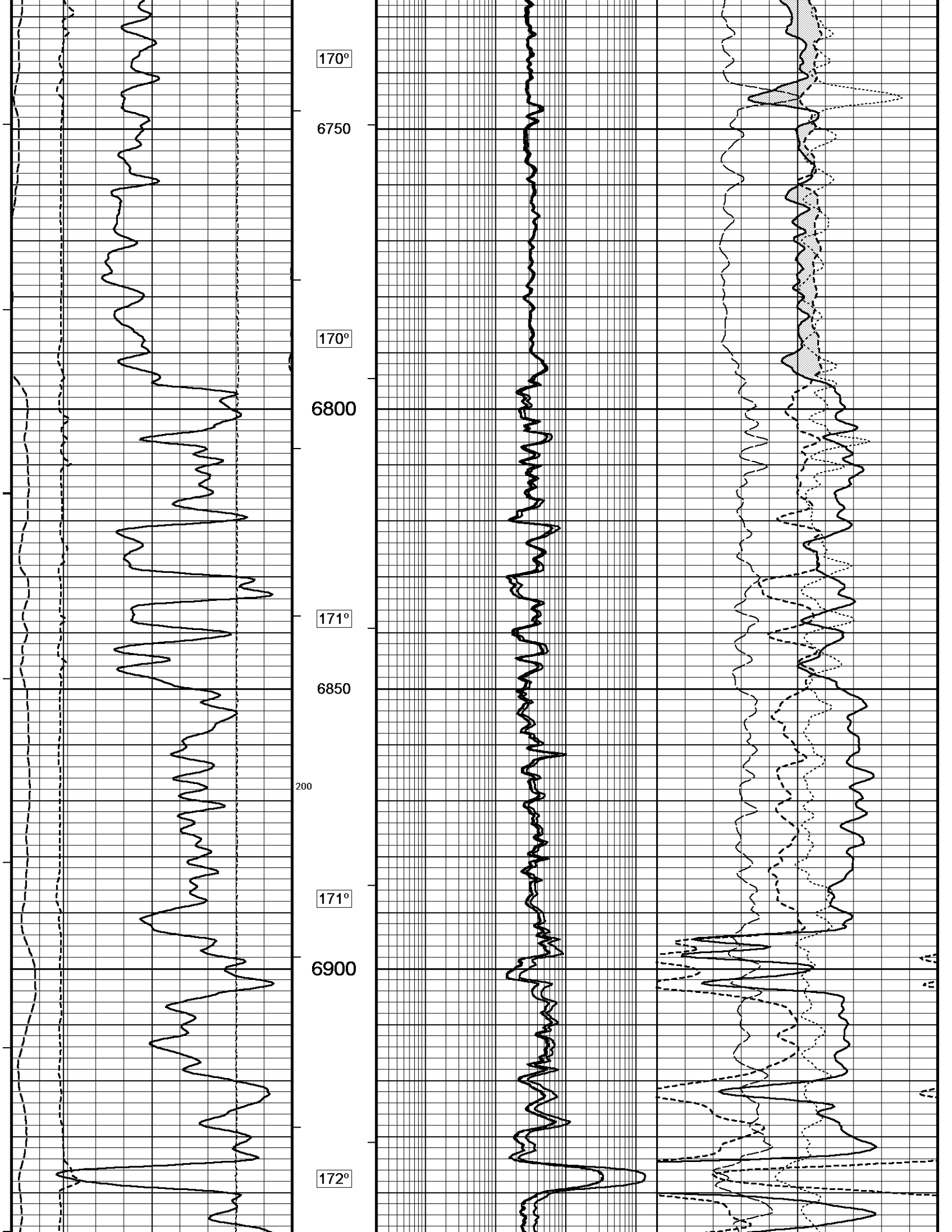

151°
5650
152°
5700
600
400
152°
5750
153°
5800
154°

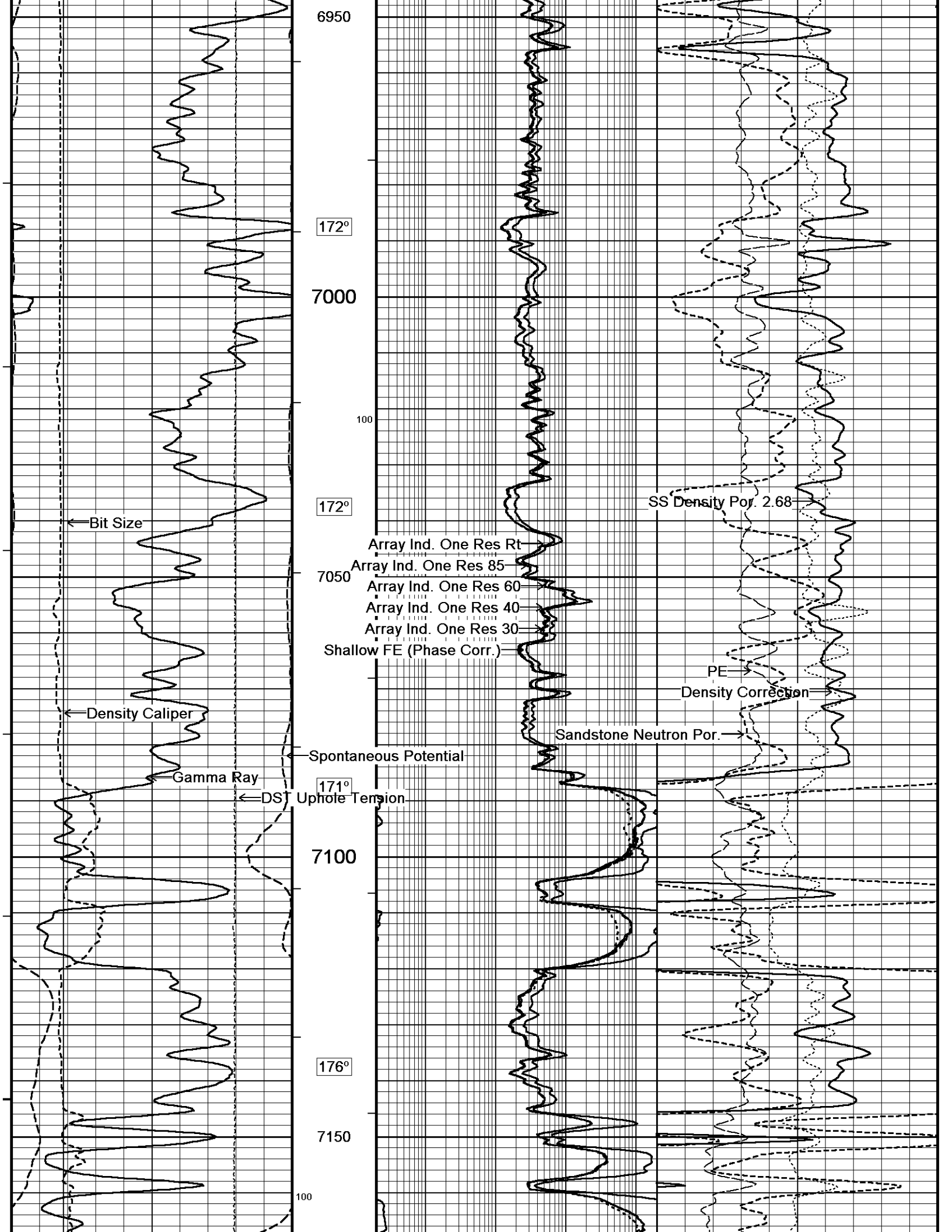

5850
SS Density Por. 2.68
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
154°
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
5900
Gamma Ray
DST Uphole Tension
155°
5950
156°
500 6000
156°
6050

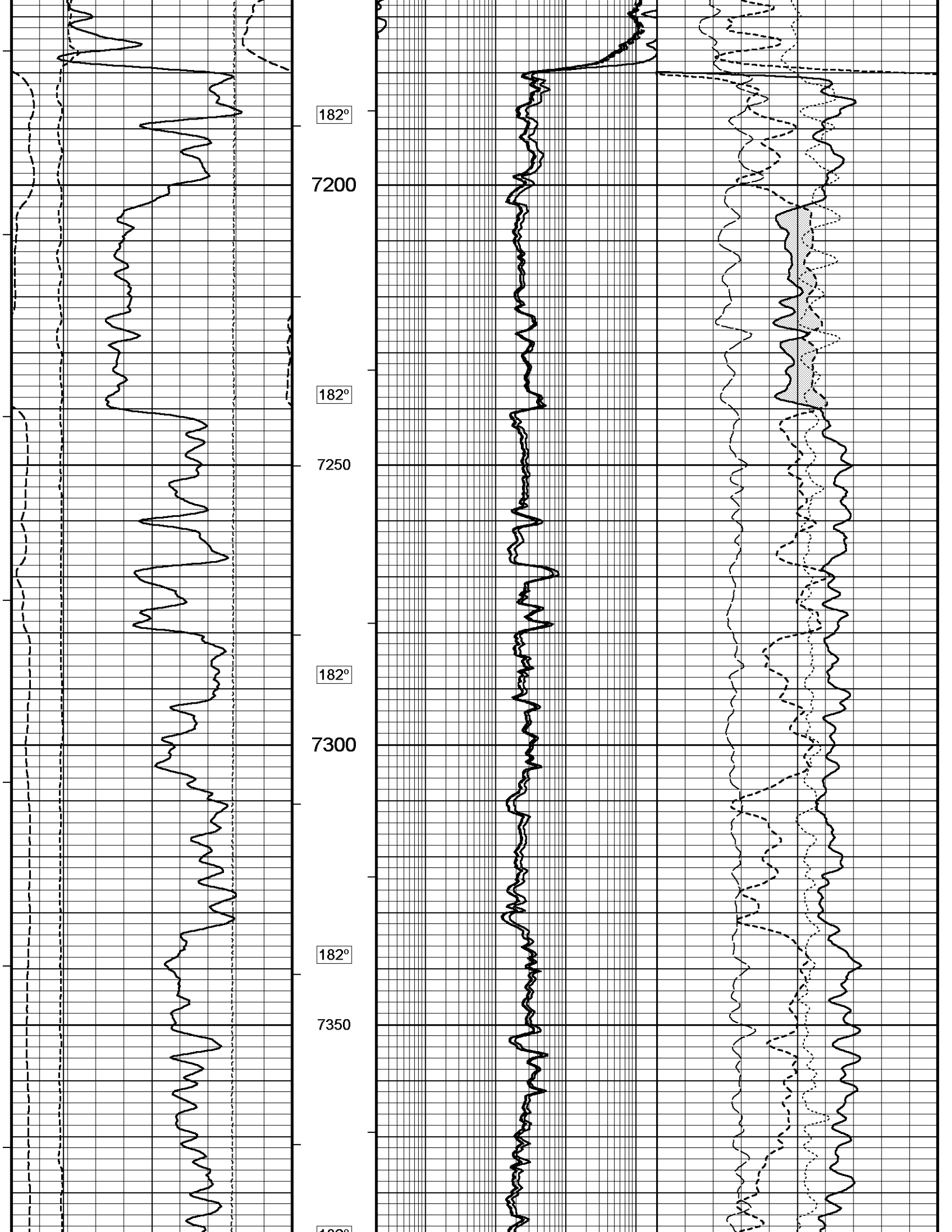

157°
6100
158°
6150
300
158°
6200
159°
6250
Bit Size
Density Caliper
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction

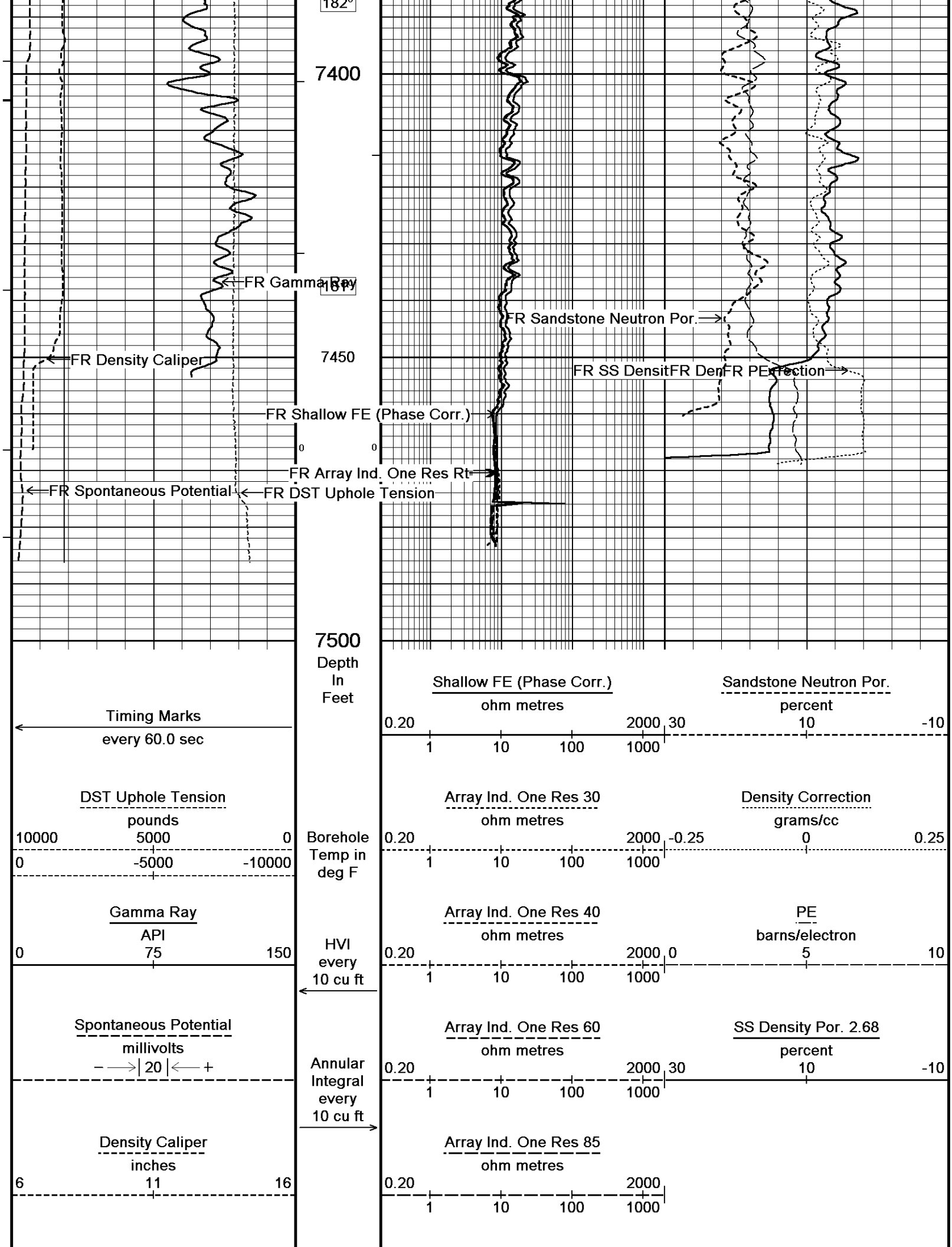

Density Caliper
Spontaneous Potential
400
Gamma Ray
DST Uphole Tension
160°
6300
Sandstone Neutron Por.
162°
6350
162°
6400
162°
6450
163°
6500


163°
6550
300
200
166°
6600
167°
Bit Size
6650
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
Density Caliper
Sandstone Neutron Por.
168°
Spontaneous Potential
Gamma Ray
DST Uphole Tension
6700


170°
6750
170°
6800
171°
6850
200
171°
6900
172°


6950
172°
7000
100
172°
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
7050
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
171°
DST Uphole Tension
7100
176°
7150
100


182°
7200
182°
7250
182°
7300
182°
7350


182°
7400
181°
FR Gamma Ray
FR Sandstone Neutron Por.
FR Density Caliper
7450
FR SS Densit
FR Den
FR PE
rrection
FR Shallow FE (Phase Corr.)
0
0
FR Array Ind. One Res Rt
FR Spontaneous Potential
FR DST Uphole Tension
7500
Depth
In
Feet
Timing Marks
every 60.0 sec
Shallow FE (Phase Corr.)
ohm metres
0.20
2000
1
10
100
1000
Sandstone Neutron Por.
percent
30
10
-10
DST Uphole Tension
pounds
10000
5000
0
0
-5000
-10000
Array Ind. One Res 30
ohm metres
0.20
2000
1
10
100
1000
Density Correction
grams/cc
-0.25
0
0.25
Borehole
Temp in
deg F
Gamma Ray
API
0
75
150
Array Ind. One Res 40
ohm metres
0.20
2000
1
10
100
1000
PE
barns/electron
0
5
10
HVI
every
10 cu ft
Spontaneous Potential
millivolts
20
Array Ind. One Res 60
ohm metres
0.20
2000
1
10
100
1000
SS Density Por. 2.68
percent
30
10
-10
Annular
Integral
every
10 cu ft
Density Caliper
inches
6
11
16
Array Ind. One Res 85
ohm metres
0.20
2000
1
10
100
1000

Bit Size
inches
6 11 16

Replay
Scale
1:240

Array Ind. One Res Rt
ohm metres
0.20 2000
1 10 100 1000

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\LOGS\GJ11-037\main.dta
System Versions: Logged with 11.02.2782 Plotted with 11.01.1914

Plotted on 25-MAR-2011 05:23
Recorded on 24-MAR-2011 21:50

5 INCH MAIN LOG

OVERLAY

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\LOGS\GJ11-037\main.dta
Filename: C:\LOGS\GJ11-037\Casing2.dta
System Versions: Logged with 11.02.2782 Plotted with 11.01.1914

Plotted on 25-MAR-2011 05:23
Recorded on 24-MAR-2011 21:50
Recorded on 24-MAR-2011 20:58

Timing Marks
every 60.0 sec

Depth
In
Feet

Shallow FE (Phase Corr.)
ohm metres
0.20 2000
1 10 100 1000

Sandstone Neutron Por.
percent
30 10 -10

DST Uphole Tension
pounds
10000 5000 0
0 -5000 -10000

Array Ind. One Res 30
ohm metres
0.20 2000
1 10 100 1000

Density Correction
grams/cc
-0.25 0 0.25

Borehole
Temp in
deg F

Gamma Ray
API
0 75 150

Array Ind. One Res 40
ohm metres
0.20 2000
1 10 100 1000

PE
barns/electron
0 5 10

HVI
every
10 cu ft

Spontaneous Potential
millivolts
– → | 20 | ← +

Array Ind. One Res 60
ohm metres
0.20 2000
1 10 100 1000

SS Density Por. 2.68
percent
30 10 -10

Annular
Integral
every
10 cu ft

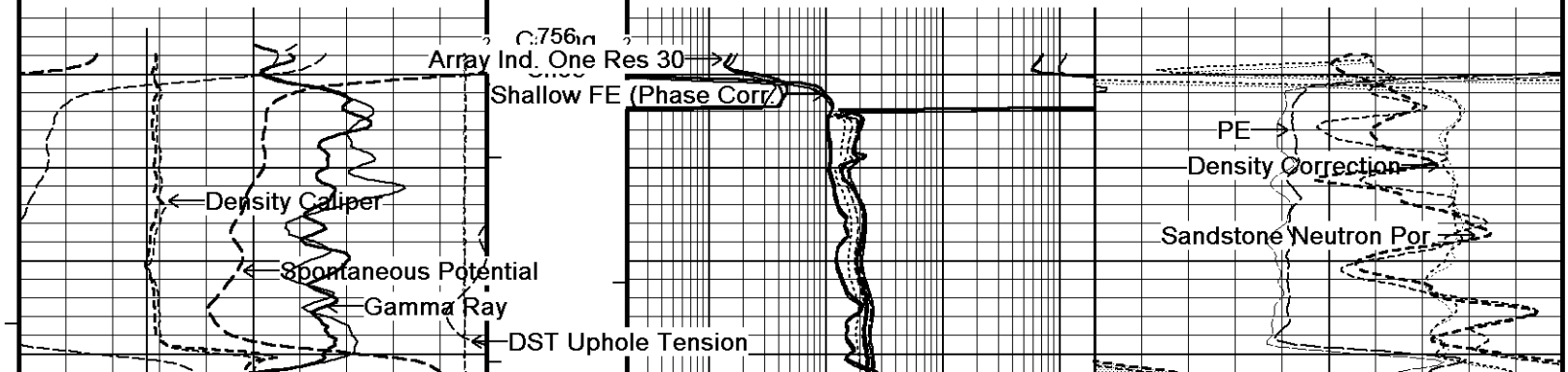
Density Caliper
inches
6 11 16

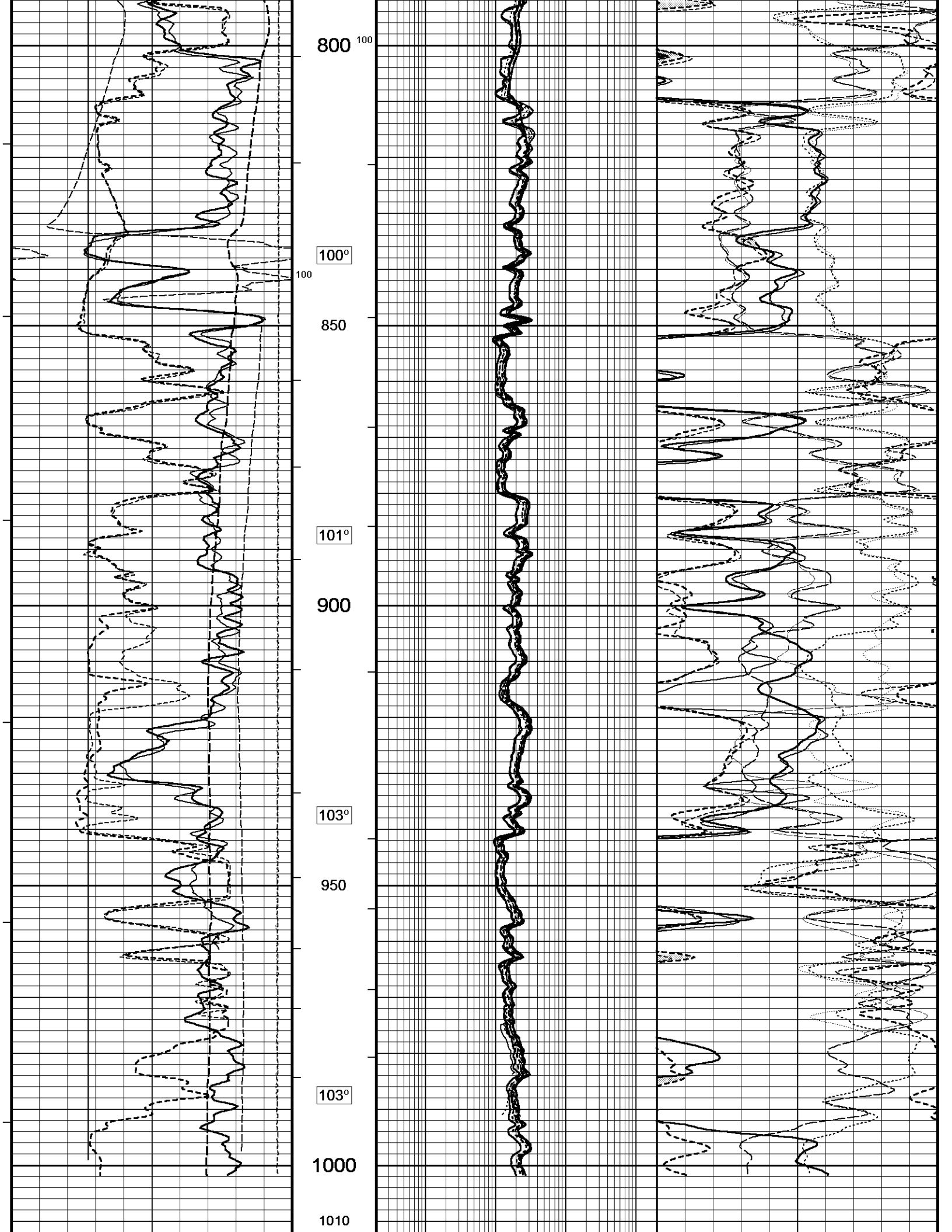
Array Ind. One Res 85
ohm metres
0.20 2000
1 10 100 1000

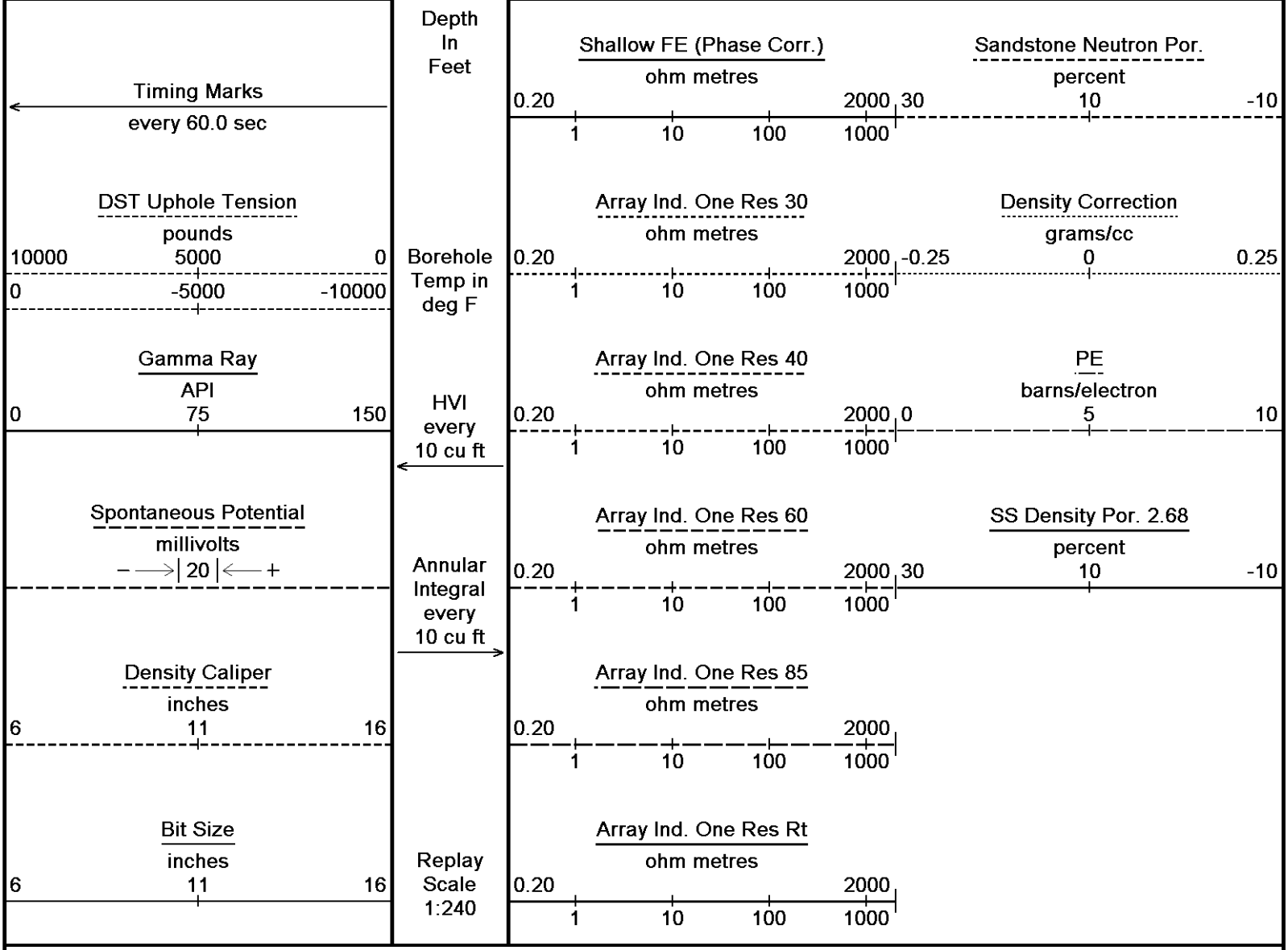
Bit Size
inches
6 11 16

Replay
Scale
1:240

Array Ind. One Res Rt
ohm metres
0.20 2000
1 10 100 1000




800
100
100°
100
850
101°
900
103°
950
103°
1000
1010



Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 25-MAR-2011 05:23
Filename: C:\LOGS\GJ11-037\main.dta
Recorded on 24-MAR-2011 21:50
Filename: C:\LOGS\GJ11-037\Casing2.dta
Recorded on 24-MAR-2011 20:58
System Versions: Logged with 11.02.2782 Plotted with 11.01.1914

OVERLAY

BEFORE SURVEY CALIBRATION

C:\LOGS\GJ11-037\main.dta

General Constants All 000

Last Edited on 24-MAR-2011,20:53

General Parameters		
Mud Resistivity	3.000	ohm-metres
Mud Resistivity Temperature	90.000	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. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

RWA Constant M 2.150

Down-hole Tension Calibration SMS 0

Field Calibration on 24-MAR-2011 20:35

Reading No	Measured	Calibrated (lbs)
1	15606.31	0.00
2	16566.65	350.00

High Resolution Temperature Calibration MCG-C 192

Field Calibration on 11-MAR-2011,06:06

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

High Resolution Temperature Constants MCG-C 192

Last Edited on 11-MAR-2011,06:06

Pre-filter Length	11

SP Calibration MCG-C 192

Field Calibration on 11-MAR-2011,06:06

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

Gamma Calibration MCG-C 192

Field Calibration on 24-MAR-2011 18:41

	Measured	Calibrated (API)
Background	150	104
Calibrator (Gross)	1466	1016
Calibrator (Net)	1316	912

Gamma Constants MCG-C 192

Last Edited on 24-MAR-2011,18:35

Gamma Calibrator Number	GRC-072	
Mud Density	1.28	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN-A.B 160

Base Calibration on 22-FEB-2011,05:29
Field Check on 24-MAR-2011 18:51

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3208	98	3714	110
Ratio	32.812		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1323	1983
Ratio	0.667	

Field Check

	Calibrated (cps)	
	1316	1980
Ratio	0.665	

Neutron Constants MDN-A.B 160

Last Edited on 24-MAR-2011,18:52

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 04-FEB-2011 09:44
Field Check on

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	10.7	1.3
Reference 2	965.5	126.8
Base Check		281.9
Field Check		0.0

FE Constants MFE-A.A 85

Last Edited on 24-MAR-2011,19:06

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

High Resolution Temperature Calibration MAI-B.A 213

Field Calibration on 22-DEC-2010,21:10

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-B.A 213

Last Edited on 13-DEC-2010,09:54

Pre-filter Length	11

Induction Calibration MAI-B.A 213

Base Calibration on 22-FEB-2011,05:28
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 23-MAR-2011,15:22

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 Normalisation

DRM1	0.0000	DRC1	0.0000

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	

Caliper Calibration MPD-B 167

Base Calibration on 24-MAR-2011 14:48
Field Calibration on 24-MAR-2011 14:49

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	18272	4.00
2	26728	5.96
3	35183	7.98
4	43312	9.86
5	52336	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.99	7.98

Photo Density Calibration MPD-B 167

Base Calibration on 24-MAR-2011 14:37
Field Check on 24-MAR-2011 19:01

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	50013	18682	53115	19186
Reference 2	23150	3037	25020	2536

Field Check at Base

1169.0	1734.7

Field Check

1171.0	1736.4

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	210	1040		
Reference 1	15507	49836	0.313	0.320
Reference 2	6038	23013	0.265	0.272

Field Check at Base

209.6	1039.8

Field Check

214.4	1046.2

Density Constants MPD-B 167

Last Edited on 24-MAR-2011,18:54

Density Source Id	P50561B
Nylon Calibrator Number	507
Aluminium Calibrator Number	507
Density Shoe Profile	8 inch
Caliper Source for Processing	Density Caliper

PE Correction to Density	Not Applied	
Mud Density	1.28	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

AFTER SURVEY CALIBRATION

C:\LOGS\GJ11-037\main.dta

FE Check MFE-A.A 85

Before Survey Check
After Survey Check on 25-MAR-2011 01:56

Before (ohm-m)	After (ohm-m)
0.0	281.8

Induction Check MAI-B.A 213

Before Survey Check on
After Survey Check on 25-MAR-2011 01:58

Channel	Before Survey (mmho/m)		After Survey (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	13.7	3935.5
2	0.0	0.0	30.1	3539.9
3	0.0	0.0	28.8	3113.9
4	0.0	0.0	19.0	2096.2
Deep	0.0	0.0	17.4	2077.5
Medium	0.0	0.0	42.6	4088.3
Shallow	0.0	0.0	45.3	5160.2
Array Temperature		0.0		63.3

Photo Density Check MPD-B 167

Before Survey Check on 24-MAR-2011 19:01
After Survey Check on 25-MAR-2011 01:55

Density Check

Near		Far	
Before	After	Before	After
1171.0	1169.3	1736.4	1740.6

PE Check

	Before	After
WS	214.4	212.1
WH	1046.2	1041.9

DOWNHOLE EQUIPMENT

C:\LOGS\GJ11-037\main.dta

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 316 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

Compact Comms Gamma
MCG-C 192 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

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

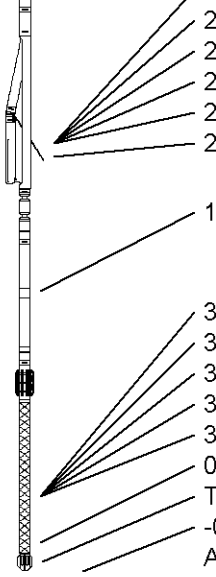
MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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: 44.66 ft Weight: 348.3 lb



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	GGU FEDERAL 31C-29-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet	First Reading	7470.50	
Elevation Drill Floor		feet	Depth Driller	7475.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7474.00	feet

Weatherford®

COMPACT TRIPLE COMBO QUICKLOOK LOG