COMPACT TRIPLE COMBO
QUICKLOOK
LOG

Weatherford®

COMPANY	BILL BARRETT CORPORATION
WELL	GGU FEDERAL 41D-29-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO
LOCATION	SHL: 1224' FNL & 1308' FEL
	BHL: 165' FNL & 664' FEL

40 Years of Wireline 1970 2010

SEC	TWP	RGE	Other Services
29	6S	91W	

API Number 05-045-19795
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	6126.00
GL	6104.00

Date	6-FEB-2011			
Run Number	ONE			
Depth Driller	7575.00	feet		
Depth Logger	7576.00	feet		
First Reading	7576.00			
Last Reading	756.00			
Casing Driller	738.00	feet		
Casing Logger	756.00	feet		
Bit Size	7.880	inches		
Hole Fluid Type	LSND			
Density / Viscosity	10.50 lb/USg	59.00 CP		
PH / Fluid Loss	8.40	6.30 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	1.45 @185.0	ohm-m		
Time Since Circulation	5 HOURS			
Max Recorded Temp	185.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13173	GD JCT		
Recorded By	J.GARCIA			
Witnessed By	J.BOYD			

BOREHOLE RECORD

Last Edited: 06-FEB-2011 14:15

Bit Size inches	Depth From feet	Depth To feet
8.750	738.00	5013.00
7.880	5013.00	7575.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	738.00	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.

DENSITY POROSITY AND NEUTRON POROSITY READINGS MAY BE AFFECTED DUE TO 8 TO 10% LCM USED IN THE MUD SYSTEM.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.94" (9 5/8", 36 LB/FT CASING)

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2900 CU.FT.

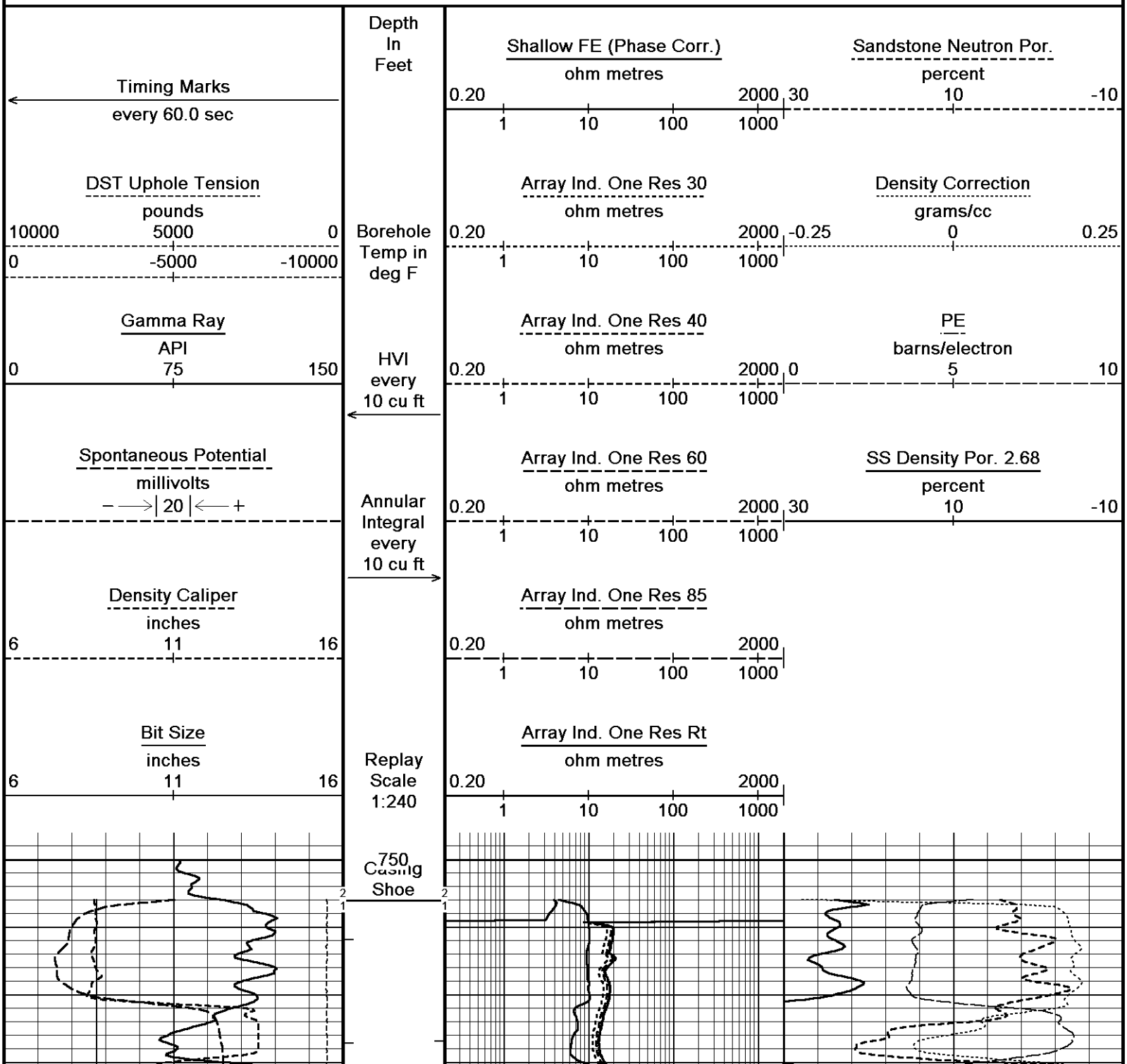
ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2140 CU.FT.

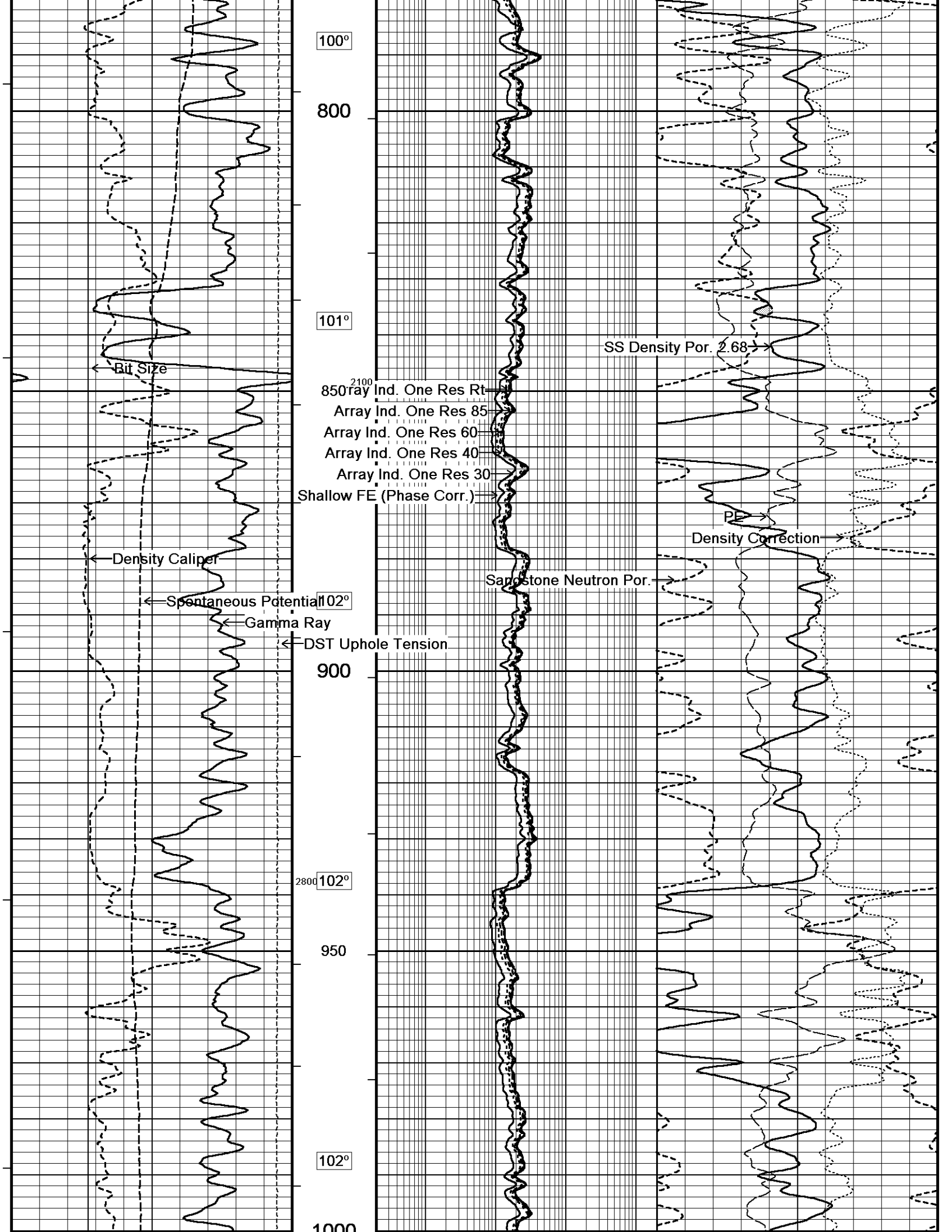
SERVICE ORDER: # 3526117

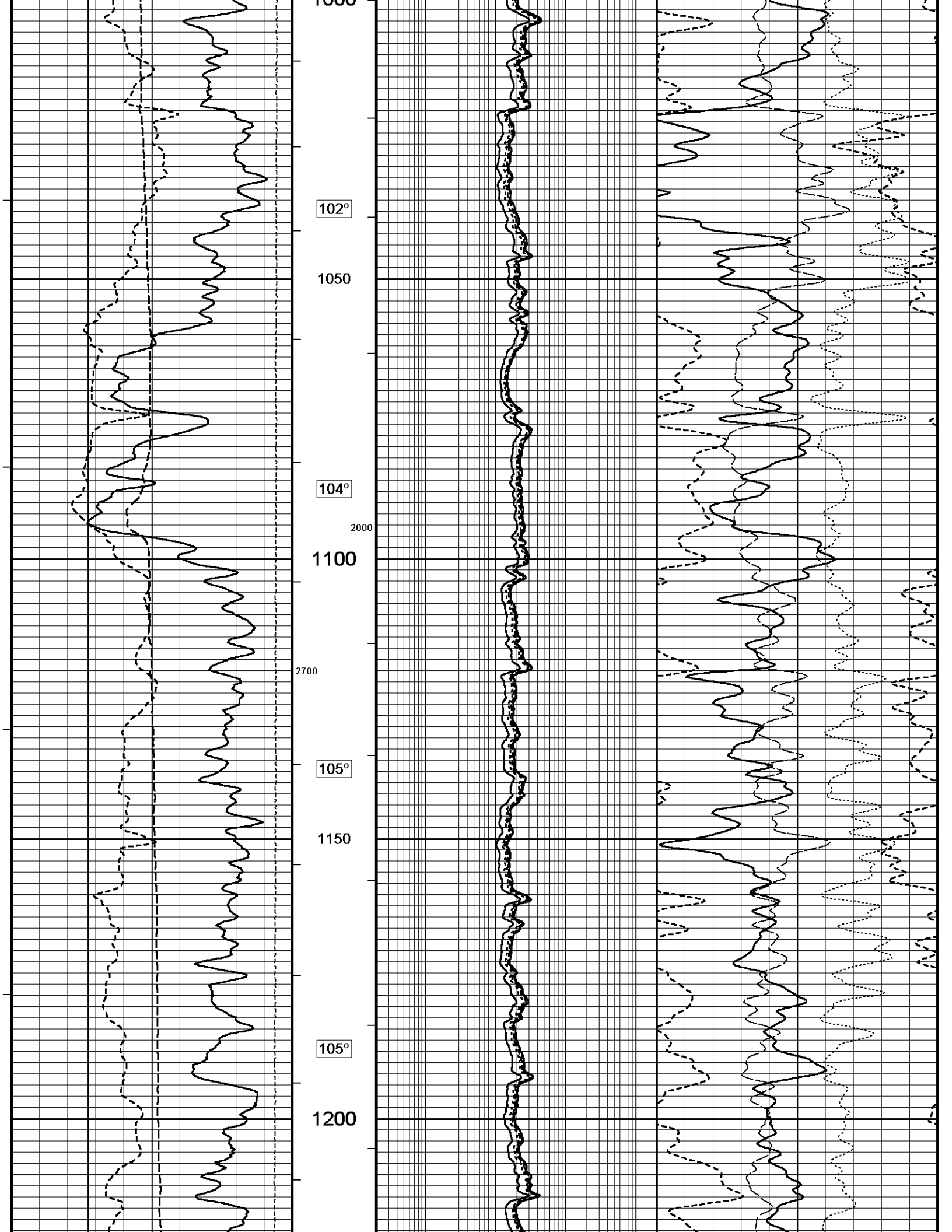
RIG: PATTERSON #307

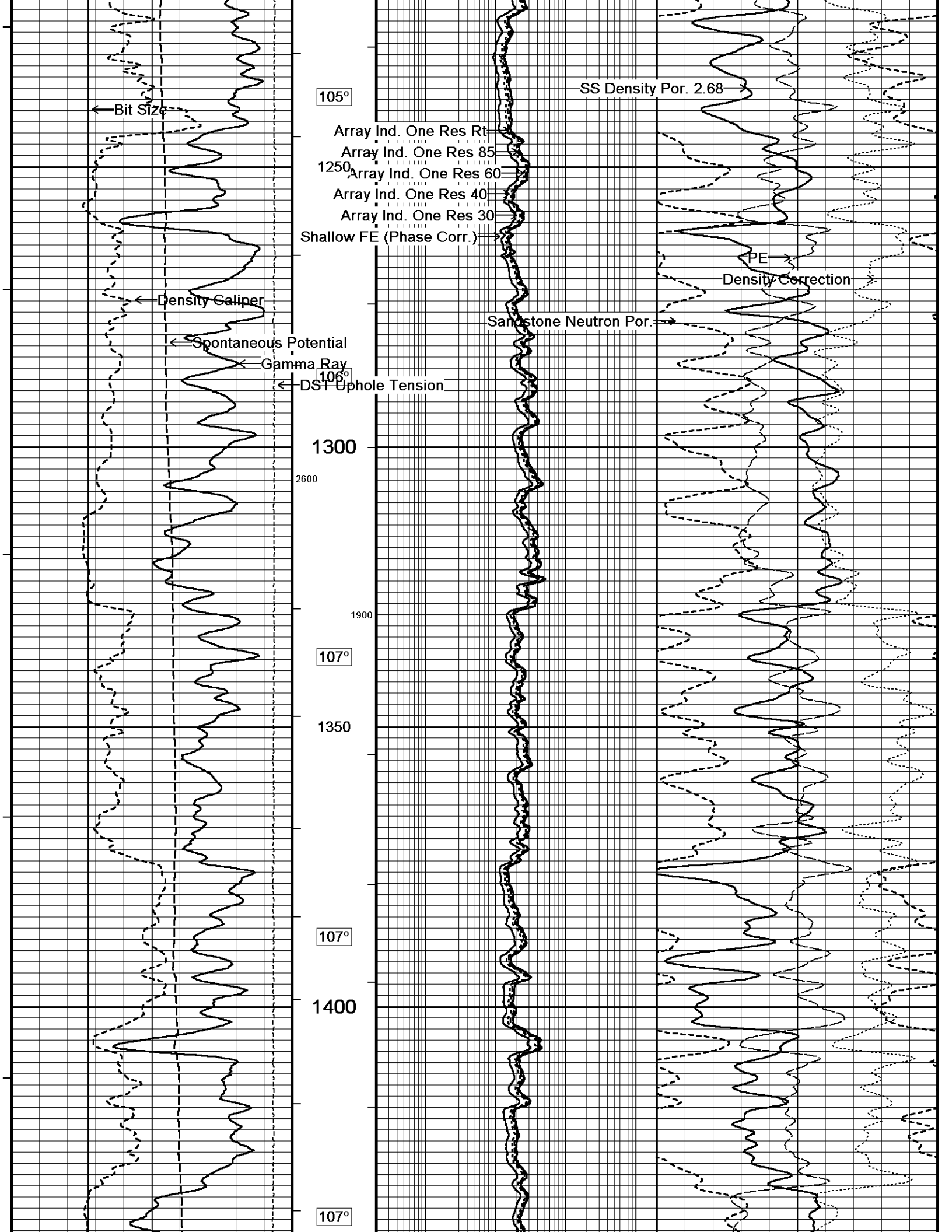
5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 06-FEB-2011 22:00
Filename: C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN-3.dta
Recorded on 06-FEB-2011 17:45
System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198




100°
800
101°
SS Density Por. 2.68
Bit Size
2100
850
ray 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
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
102°
Gamma Ray
DST Uphole Tension
900
2800
102°
950
102°
1000


1000
102°
1050
104°
2000
1100
2700
105°
1150
105°
1200


105°
Bit Size
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1250
Array Ind. One Res 60
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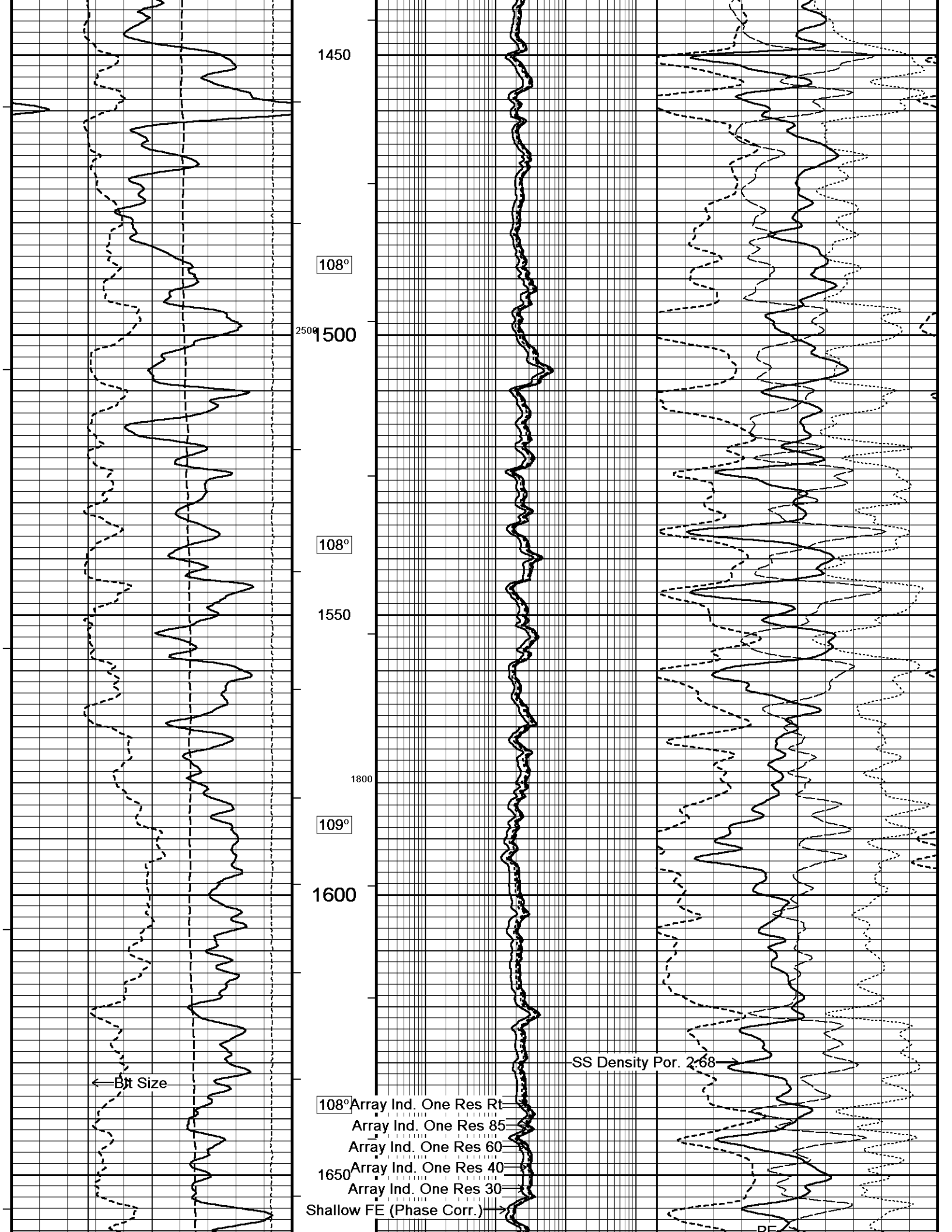
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
106°
DST Uphole Tension
1300
2600
1900
107°
1350
107°
1400
107°


1450
108°
2500
1500
108°
1550
1800
109°
1600
1650
Bit Size
108°
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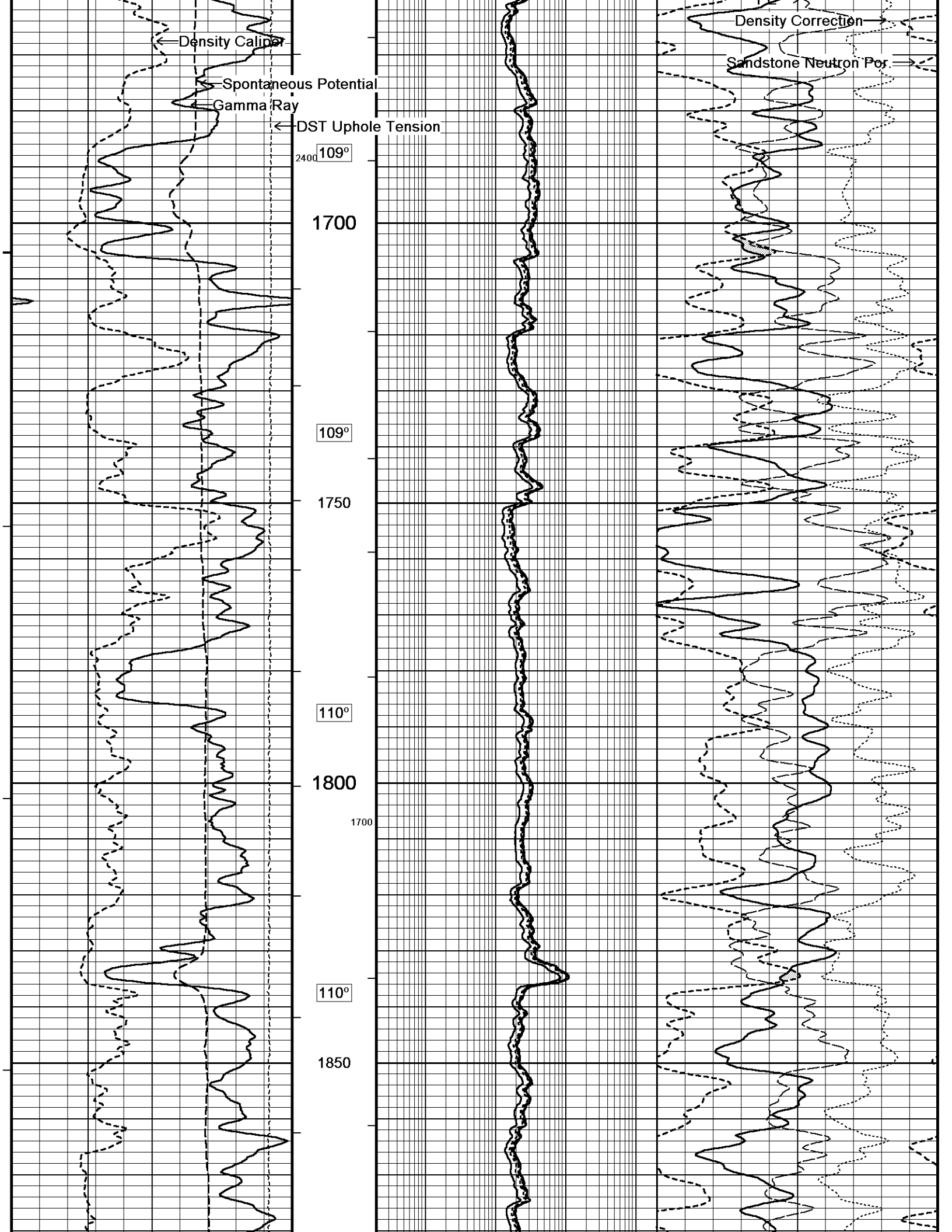
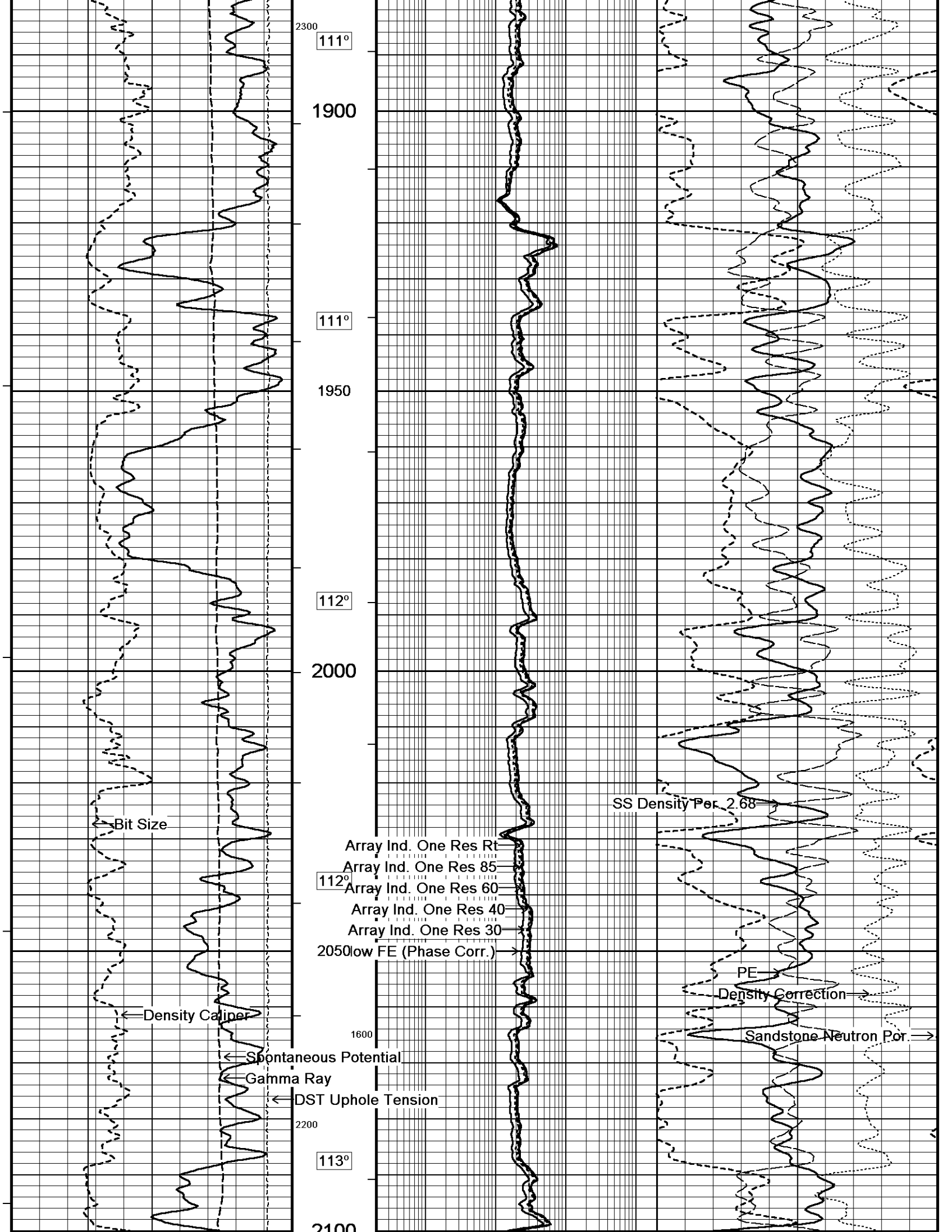
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68


Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Density Correction
Sandstone Neutron Por
2400
109°
1700
109°
1750
110°
1800
1700
110°
1850


2300
111°
1900
111°
1950
112°
2000
Bit Size
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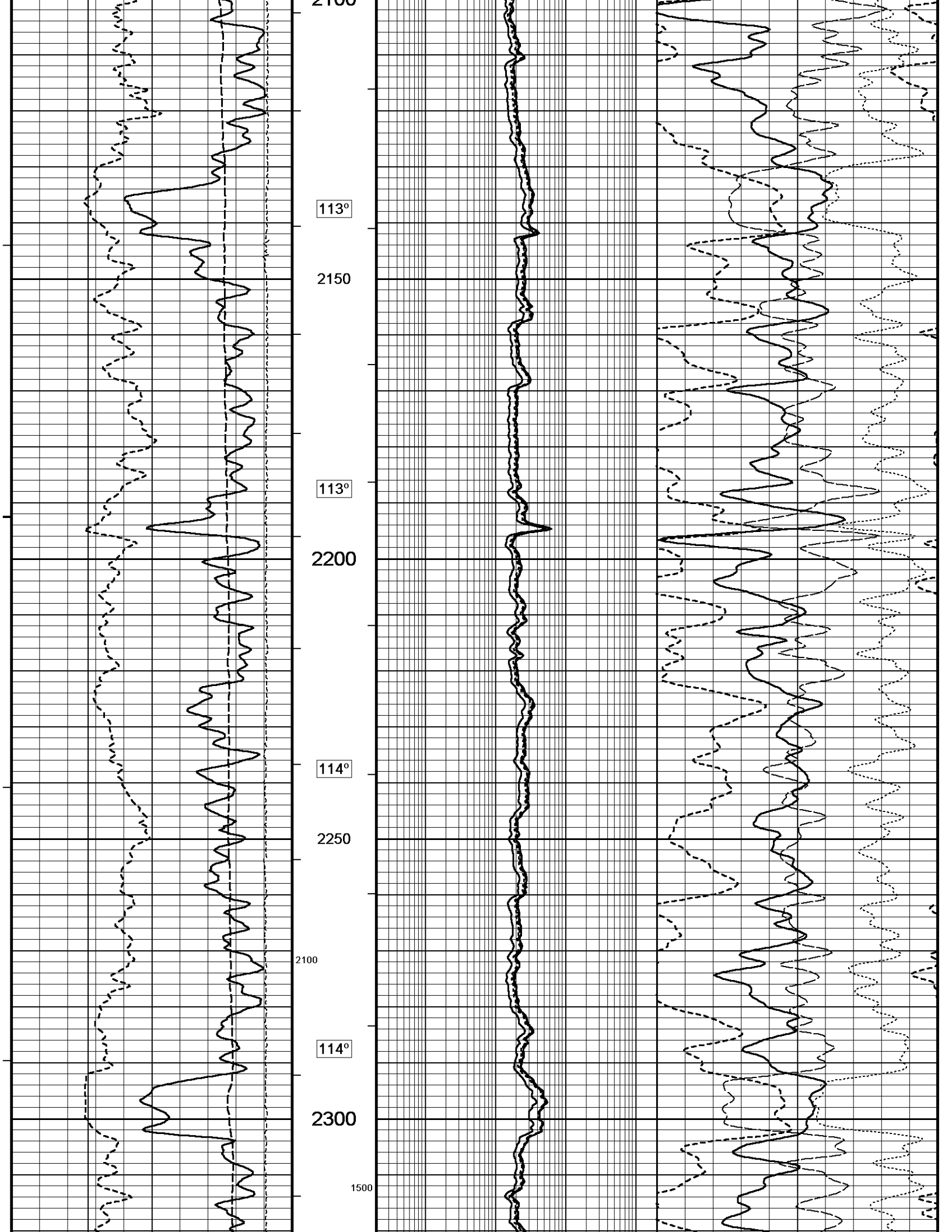
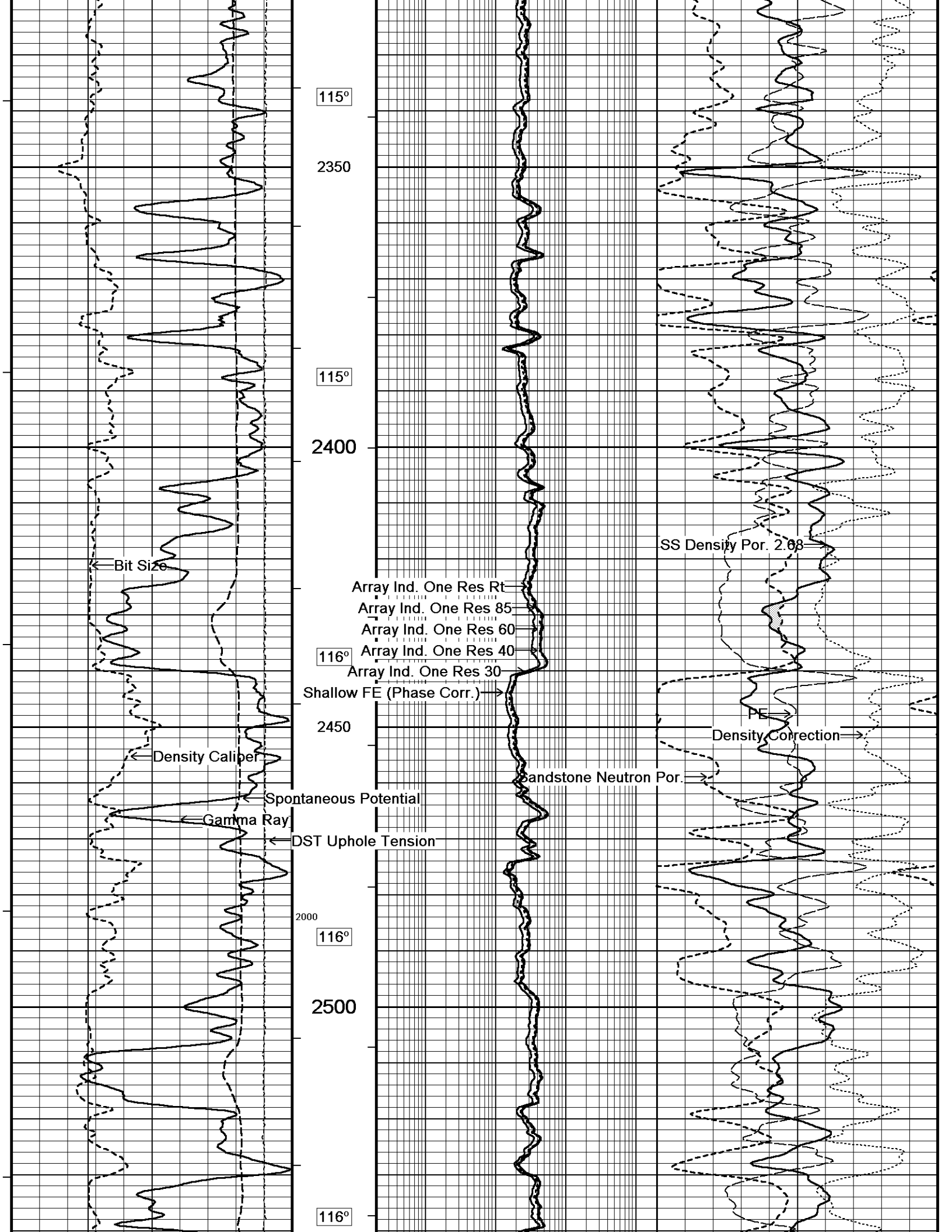
Array Ind. One Res 85
112°
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
2050
low FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
1600
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2200
113°
2100


113°
2150
113°
2200
114°
2250
2100
114°
2300
1500


115°
2350
115°
2400
SS Density Por. 2.68
Bit Size
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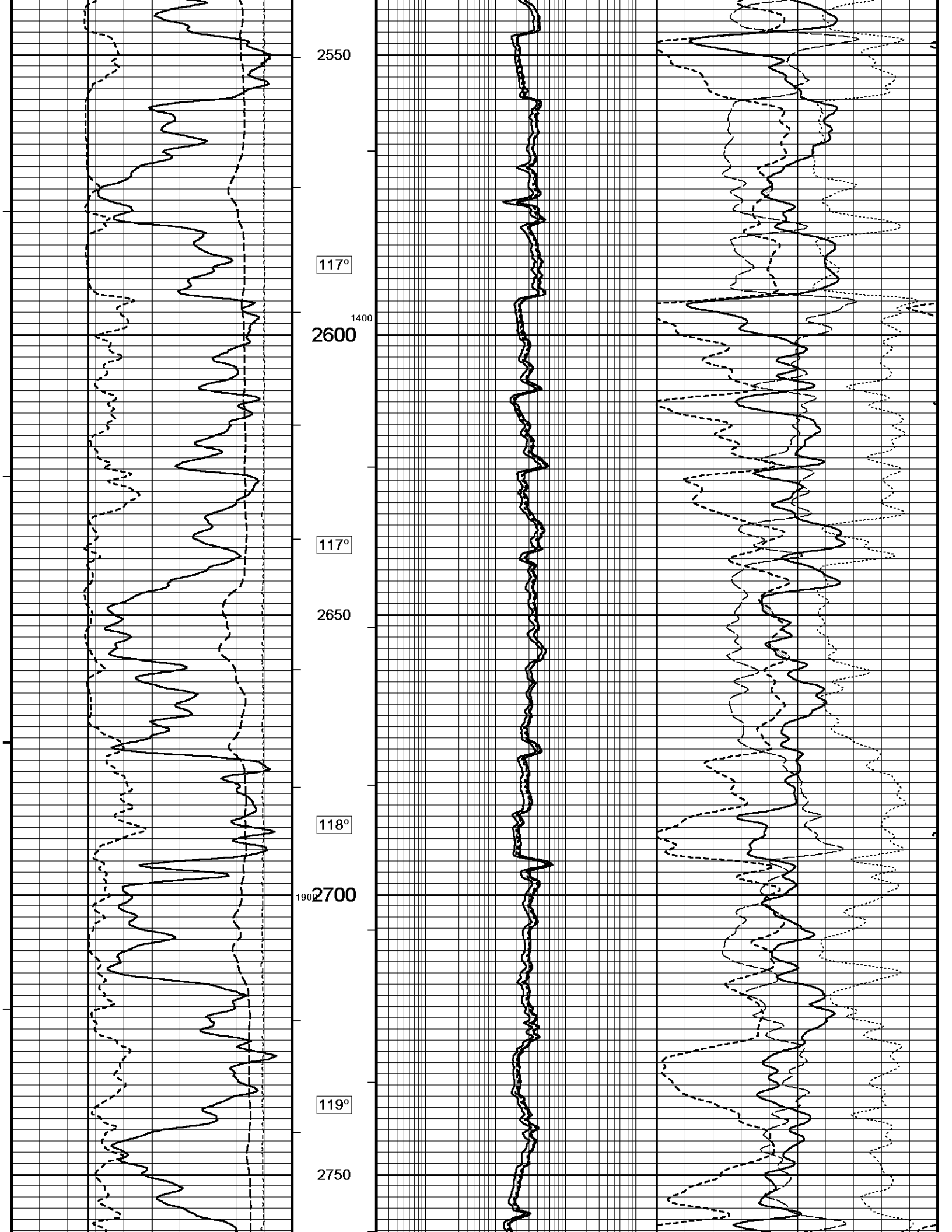
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
116°
Array Ind. One Res 30
Shallow FE (Phase Corr.)
2450
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2000
116°
2500
116°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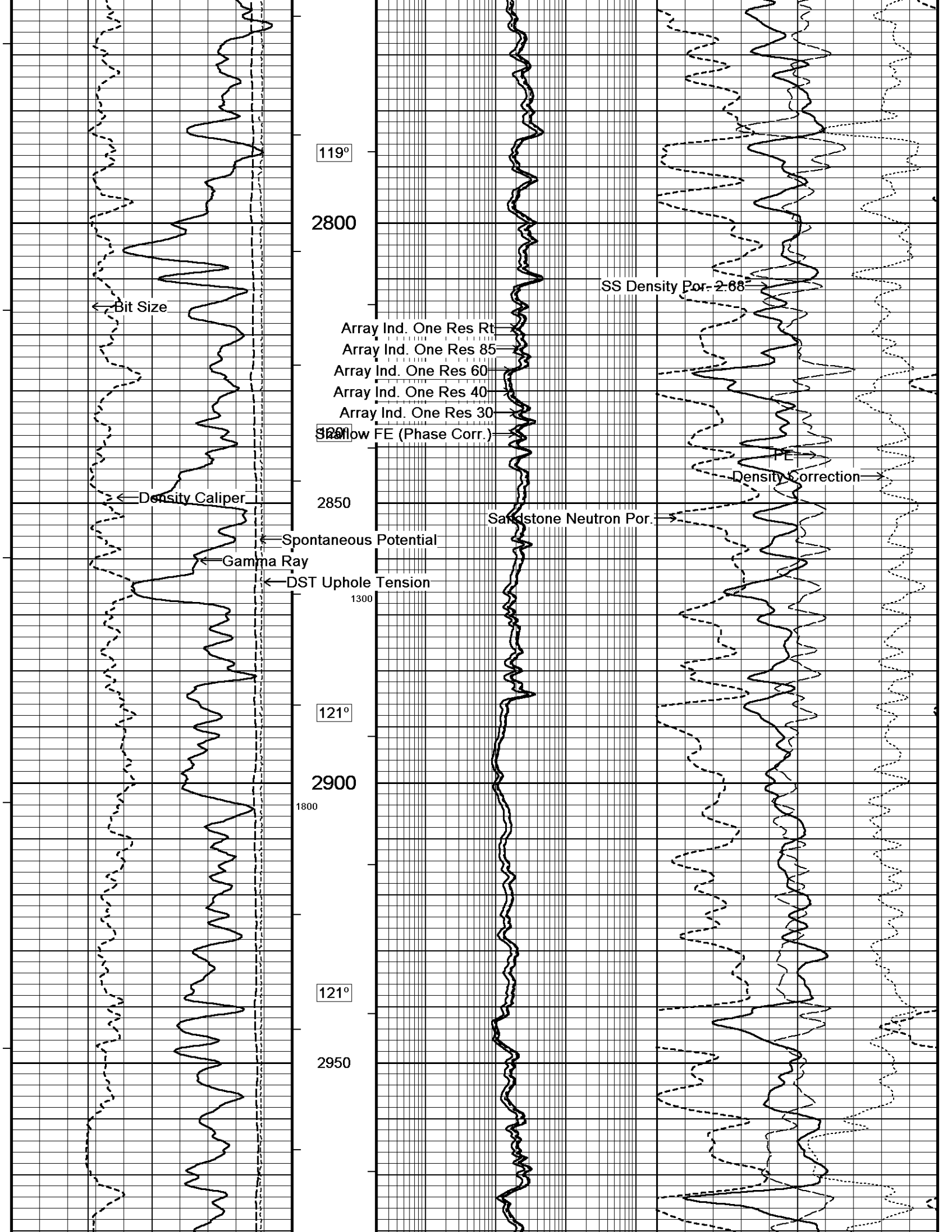
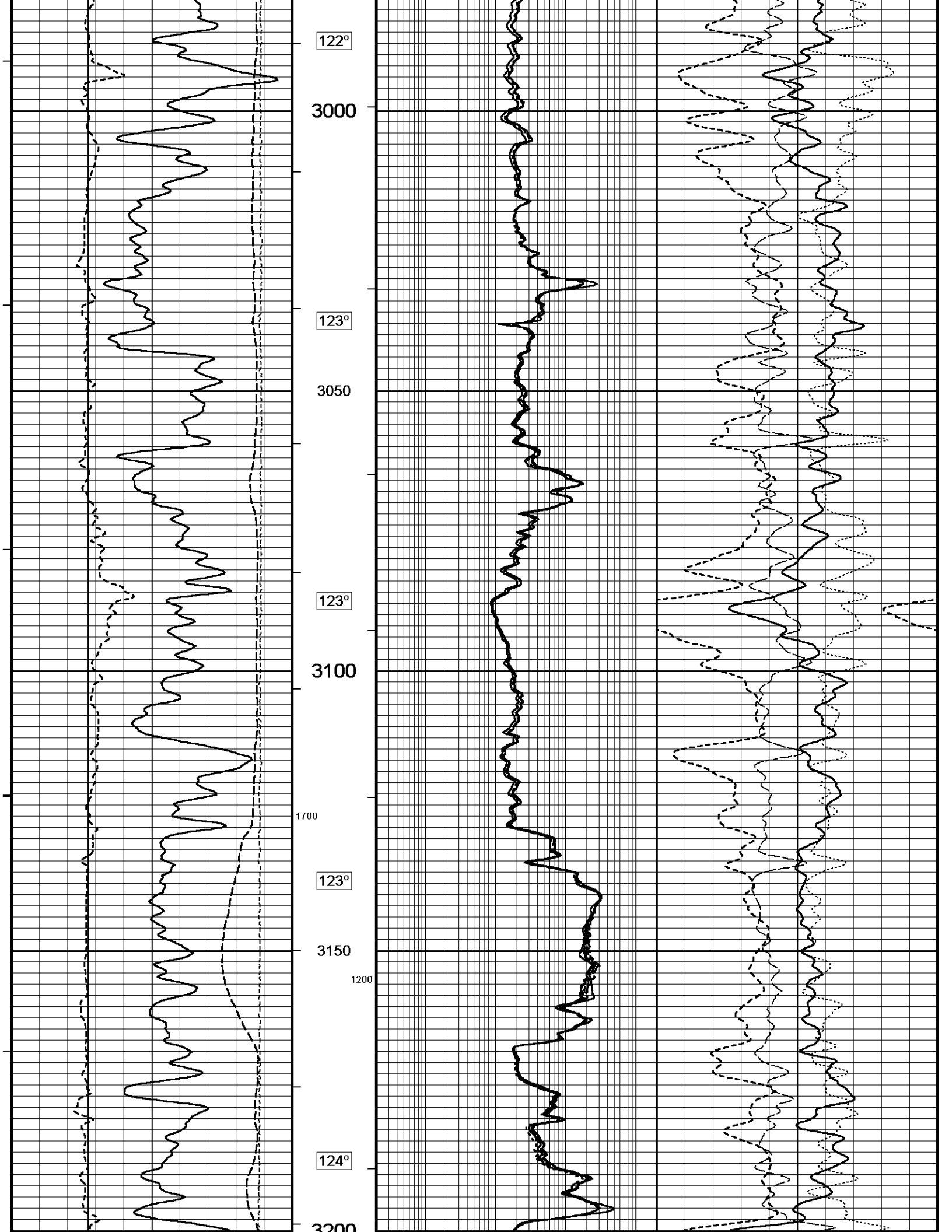
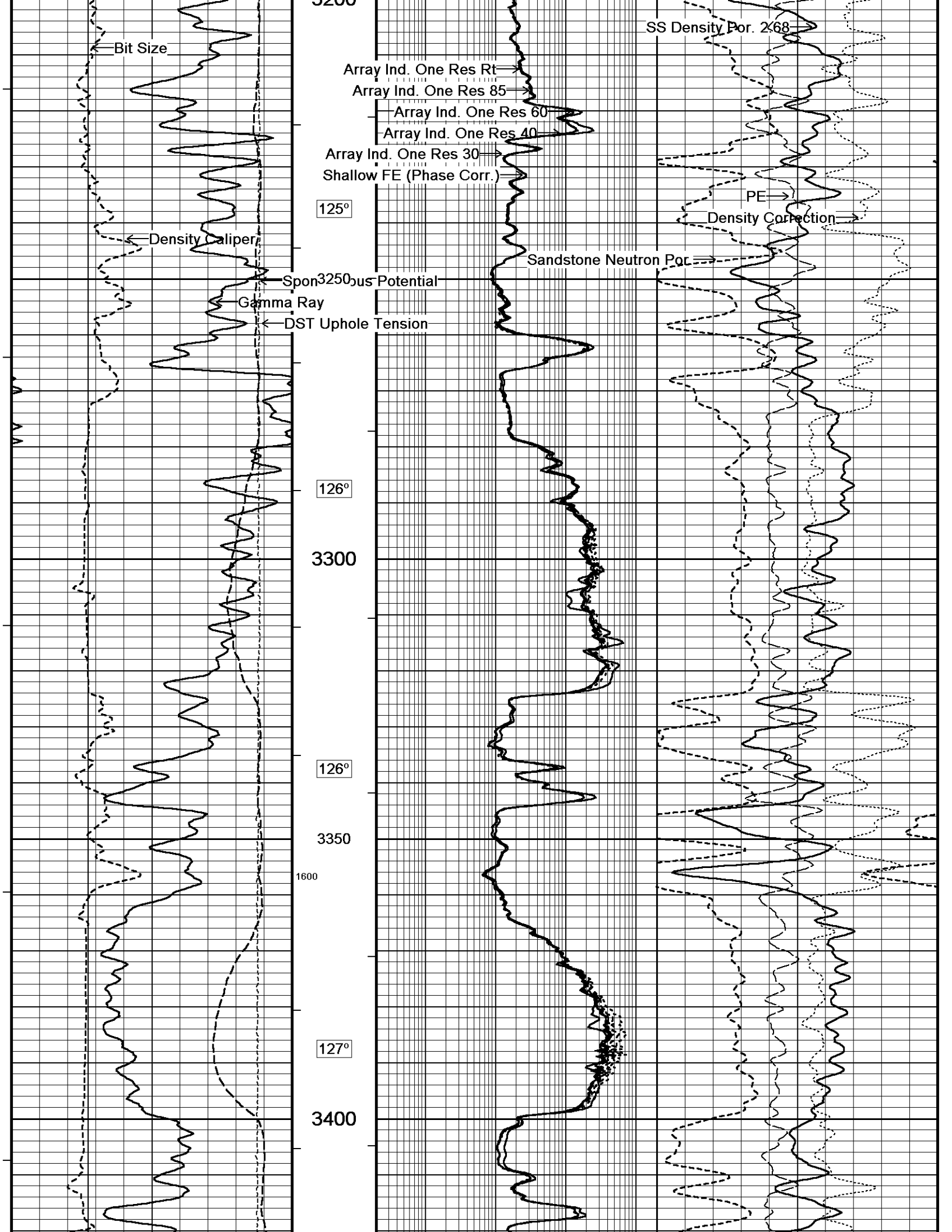
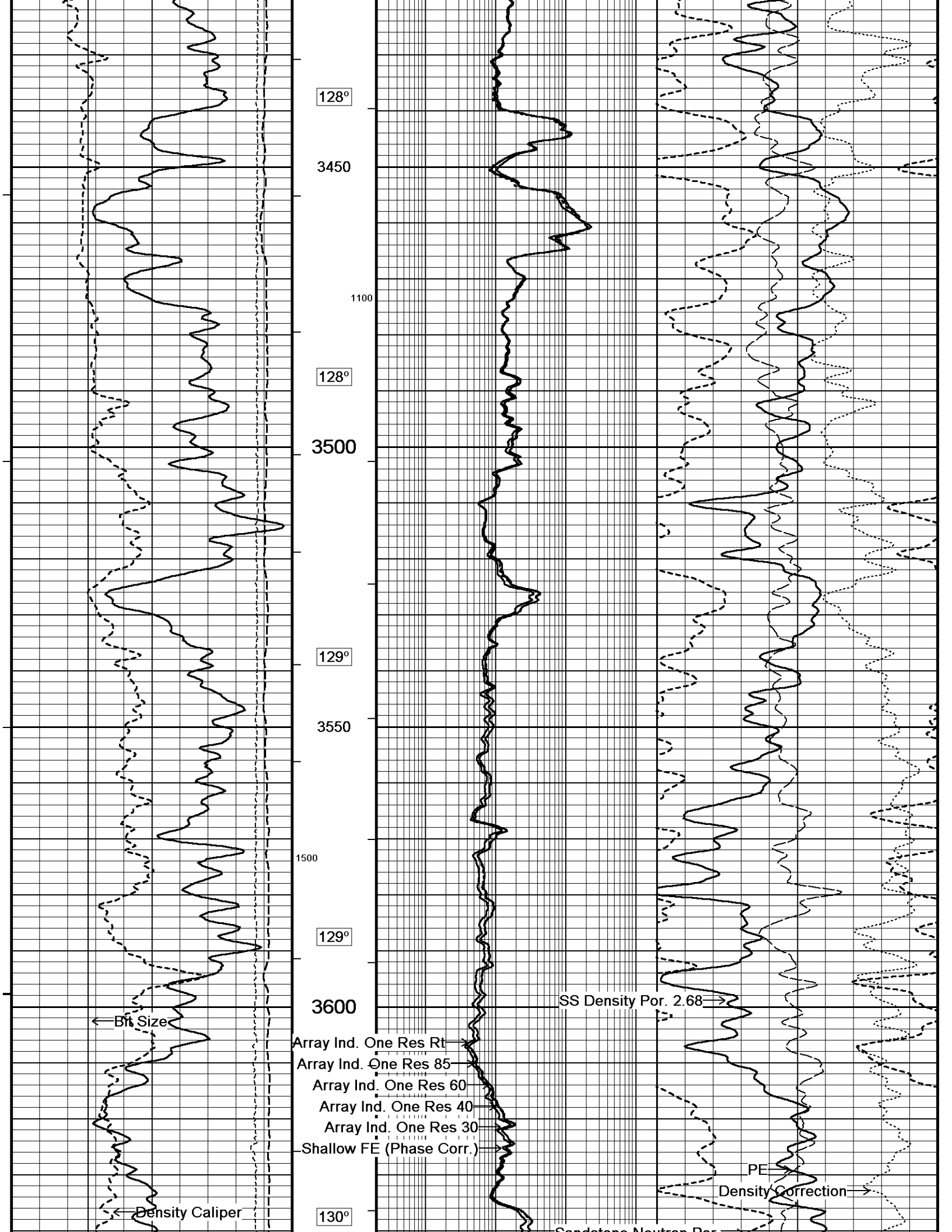
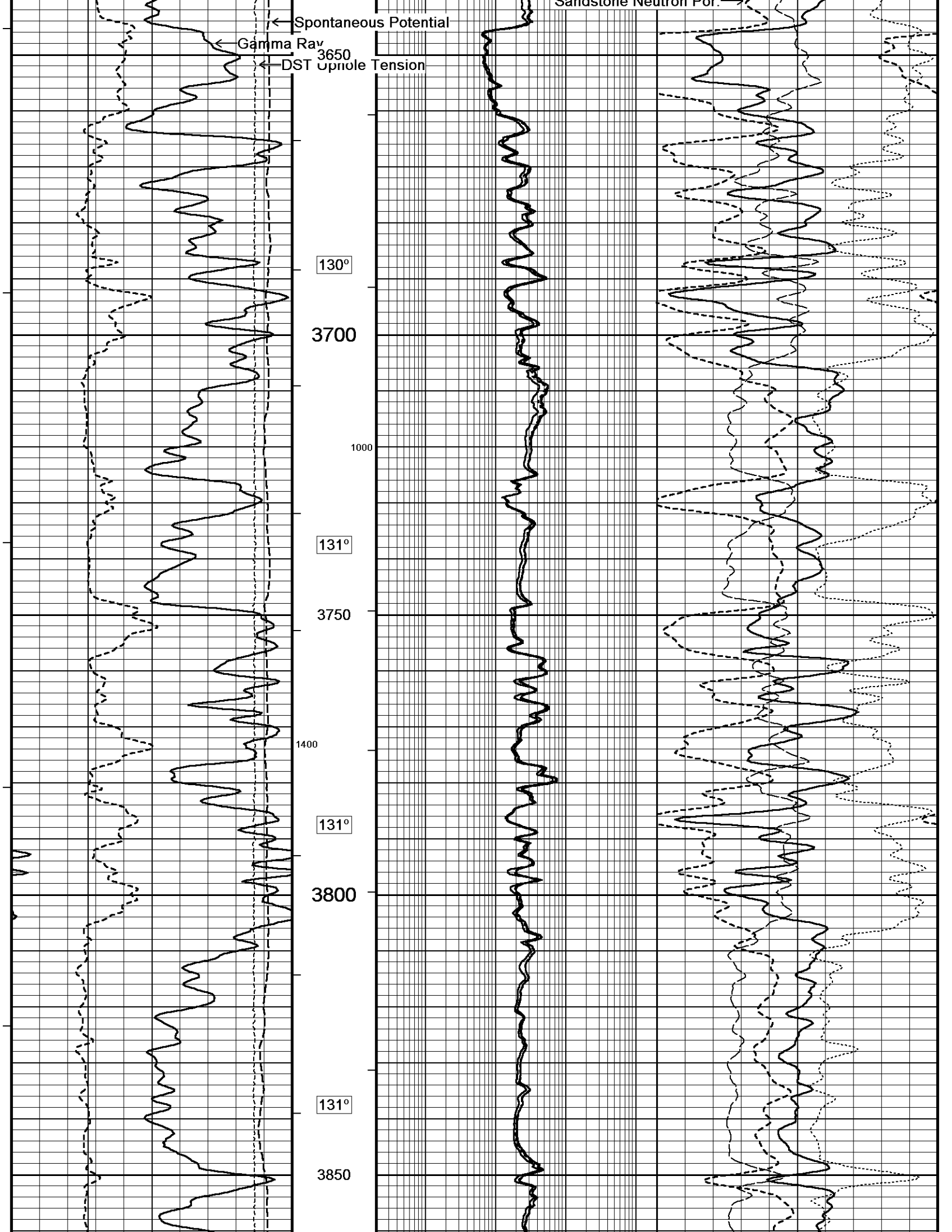
117°
1400
2600
117°
2650
118°
1900
2700
119°
2750

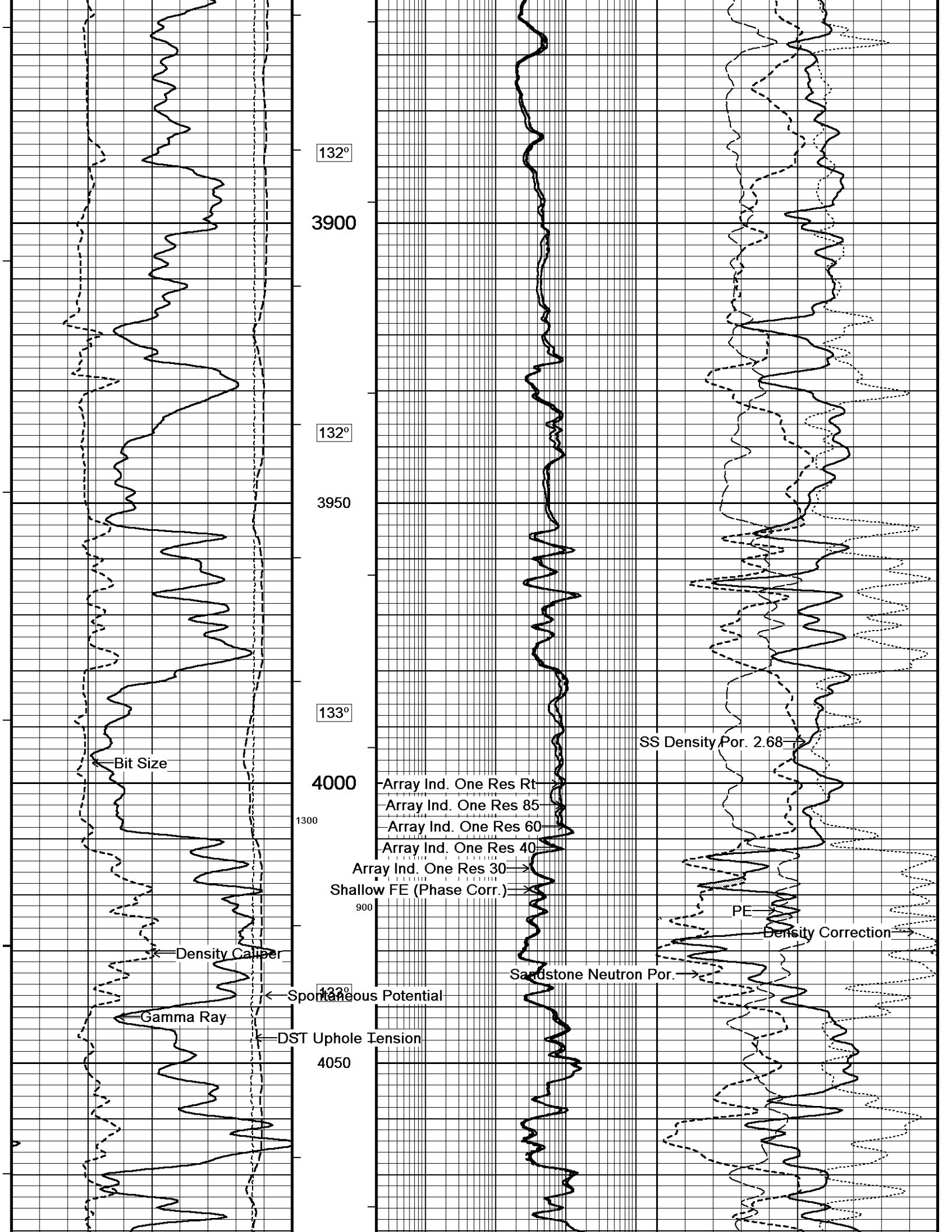

119°
2800
SS Density Por- 2.68
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
Density Caliper
2850
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
1300
121°
2900
1800
121°
2950

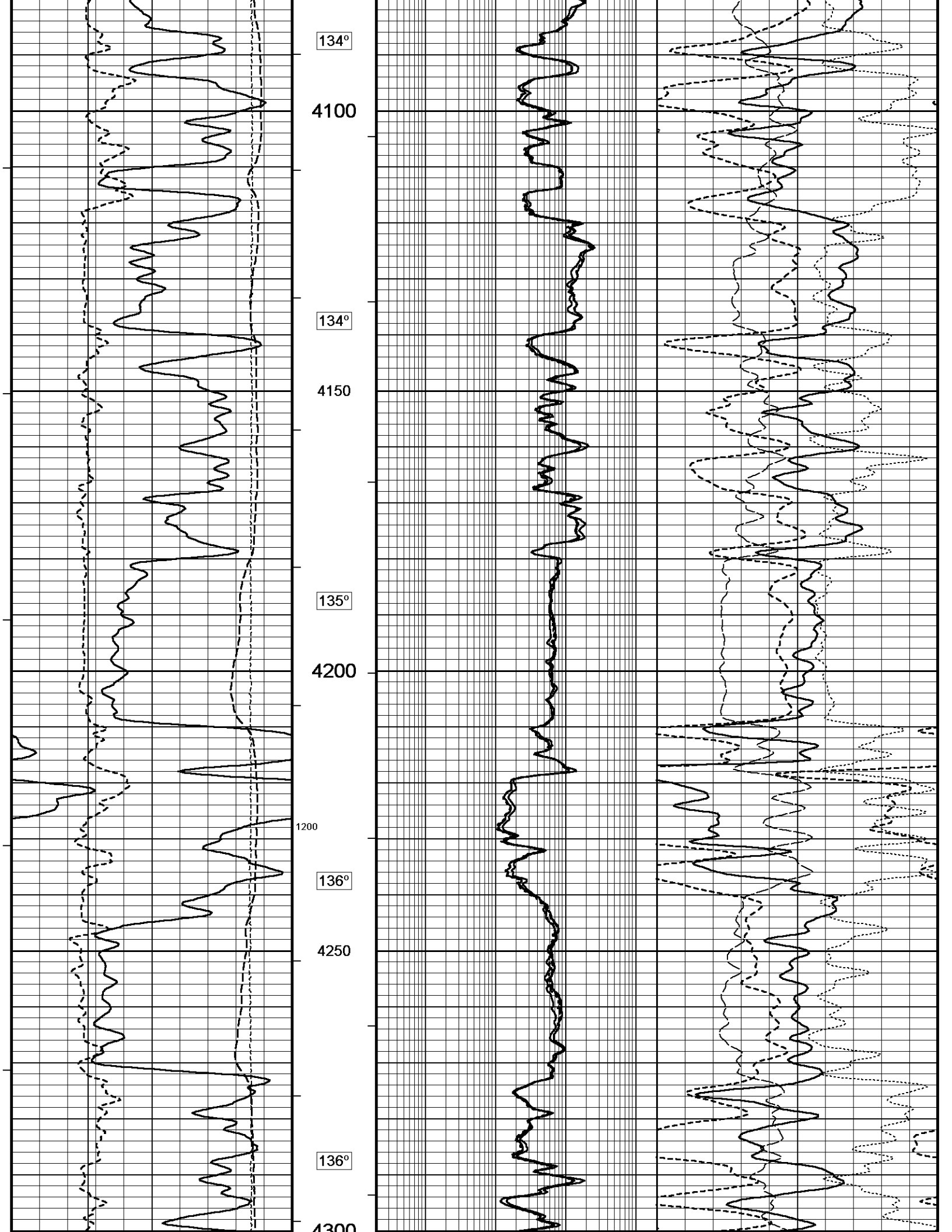

122°
3000
123°
3050
123°
3100
1700
123°
3150
1200
124°
3200

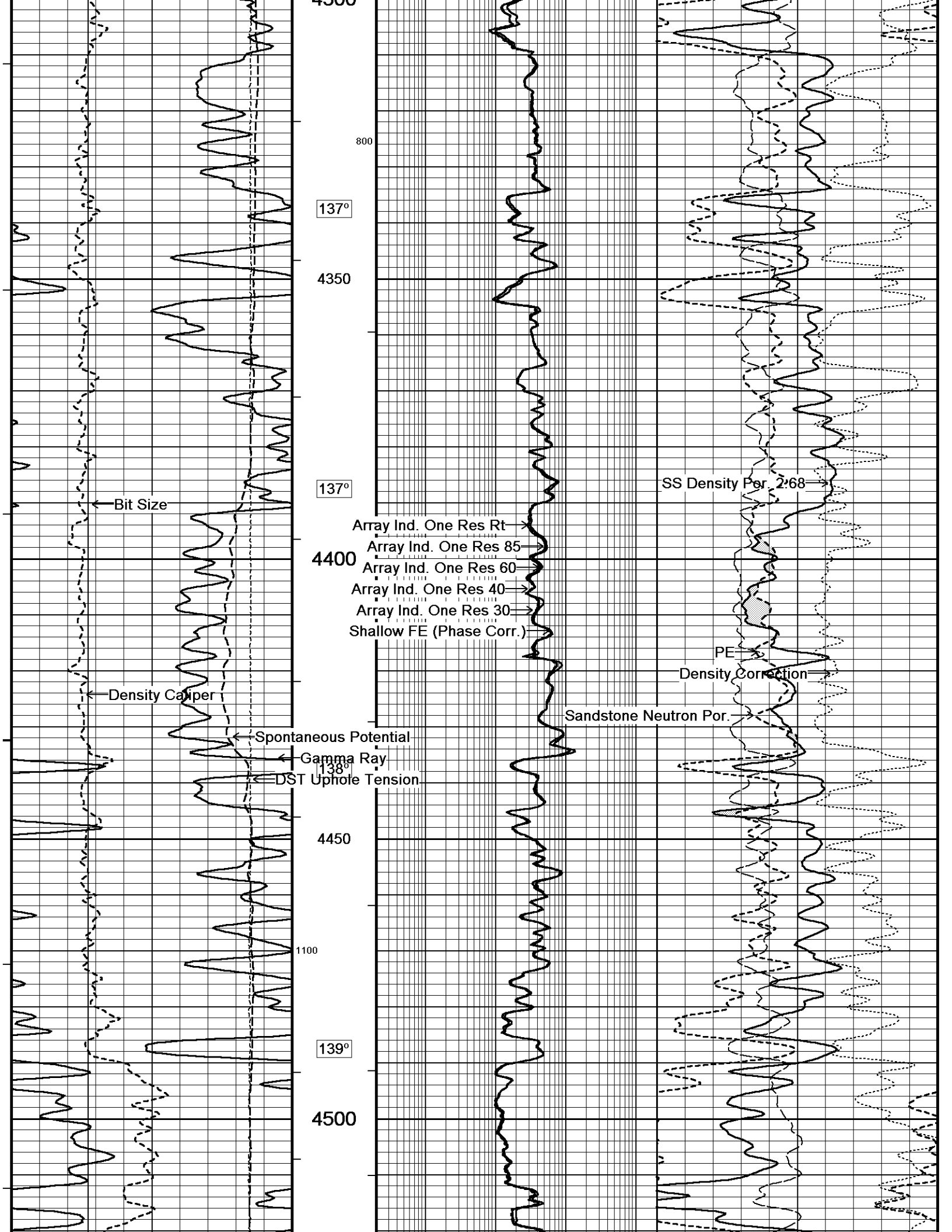

Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.
125°
126°
126°
127°
3250
3300
3350
3400
1600

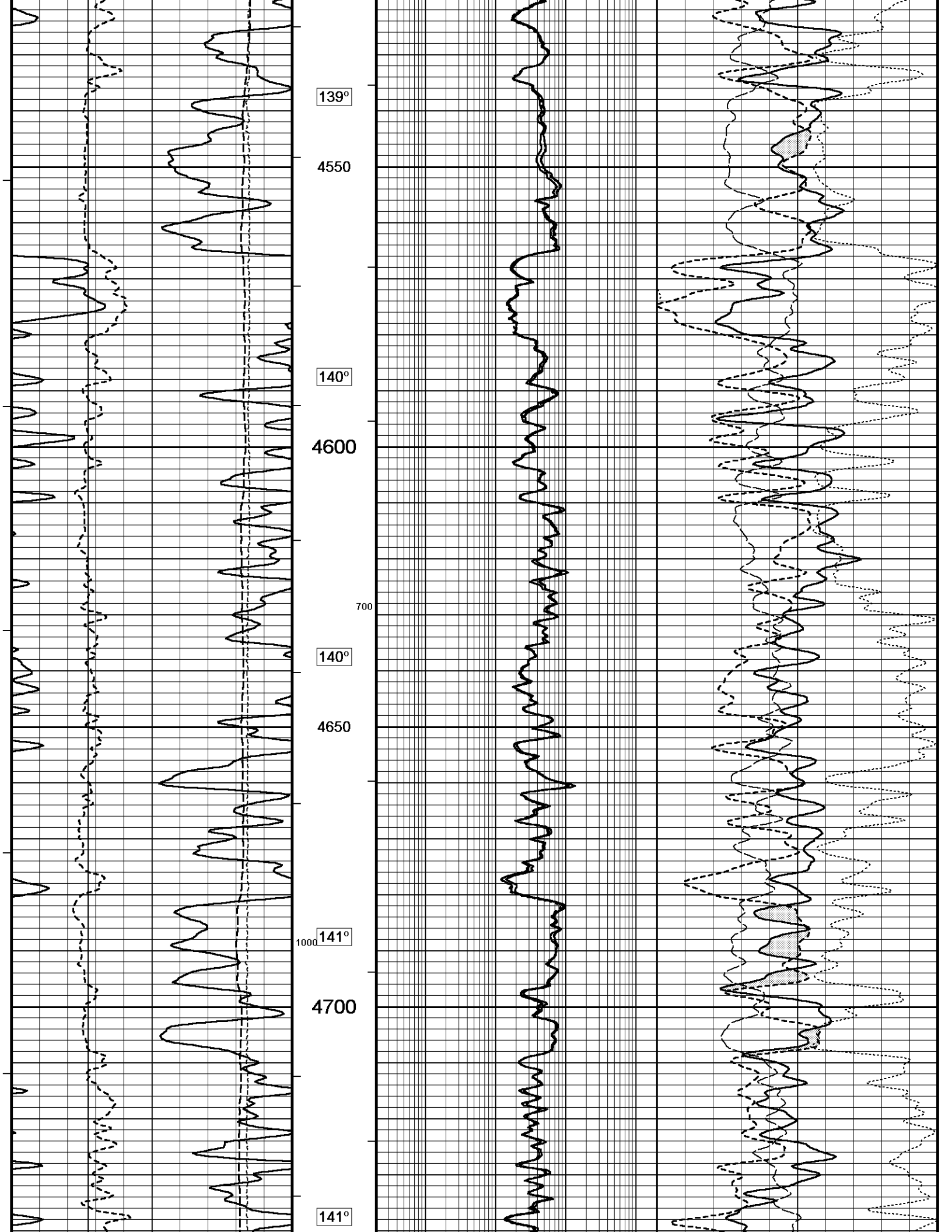

128°
3450
1100
128°
3500
129°
3550
1500
129°
3600
130°
Bit Size
Density Caliper
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction

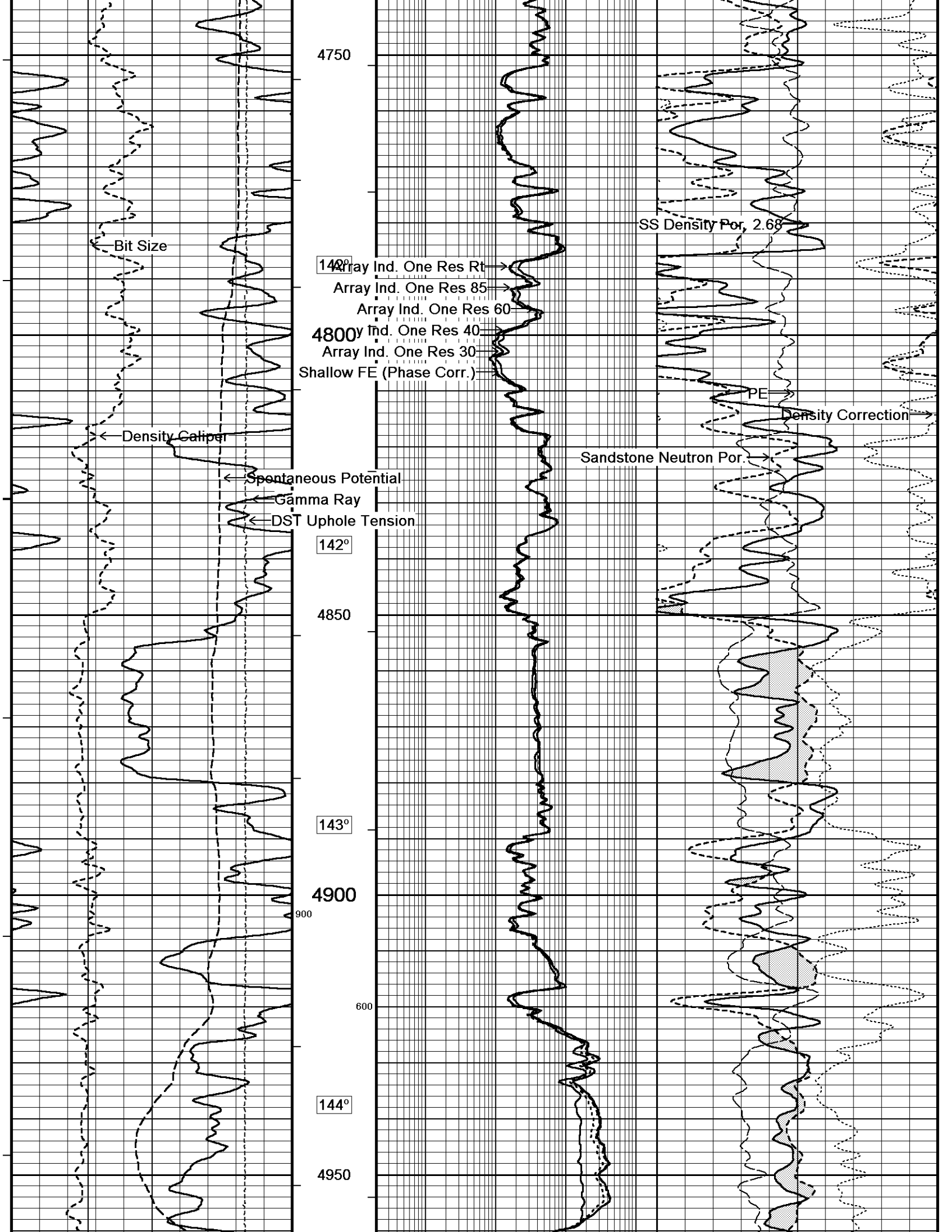

Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
3650
DST Uphole Tension
130°
3700
1000
131°
3750
1400
131°
3800
131°
3850

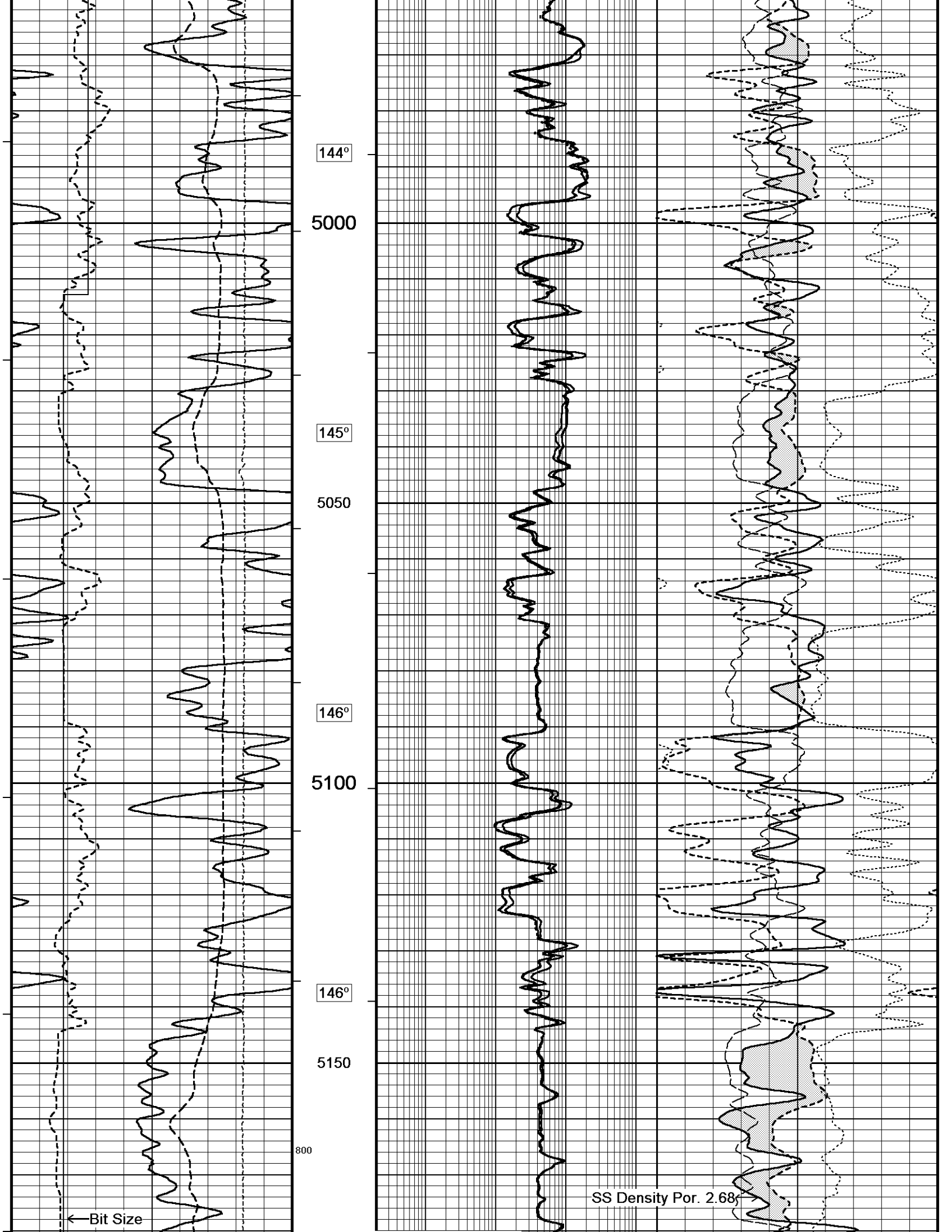

132°
3900
132°
3950
133°
Bit Size
4000
1300
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
900
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.
Density Caliper
132°
Spontaneous Potential
Gamma Ray
DST Uphole Tension
4050

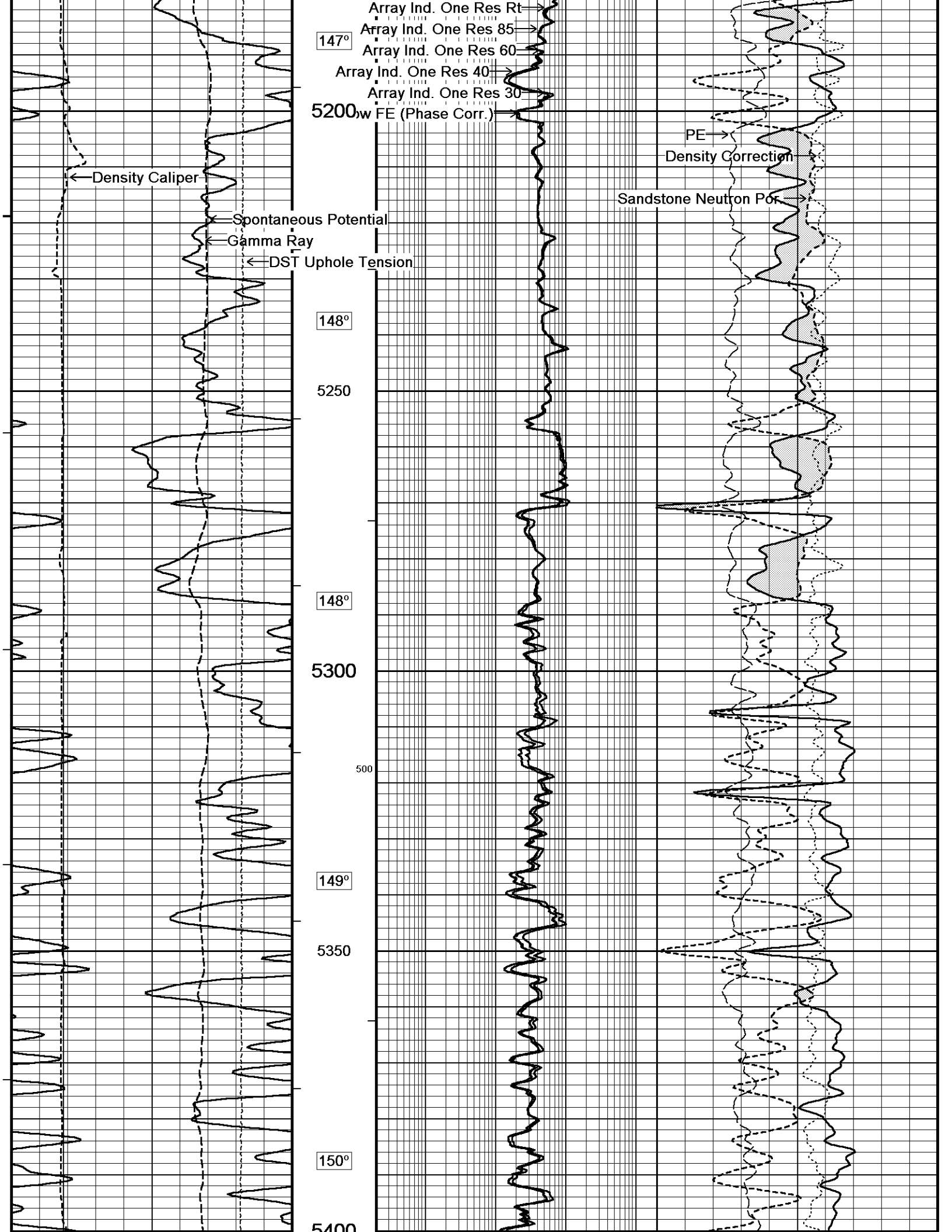

134°
4100
134°
4150
135°
4200
1200
136°
4250
136°
4300

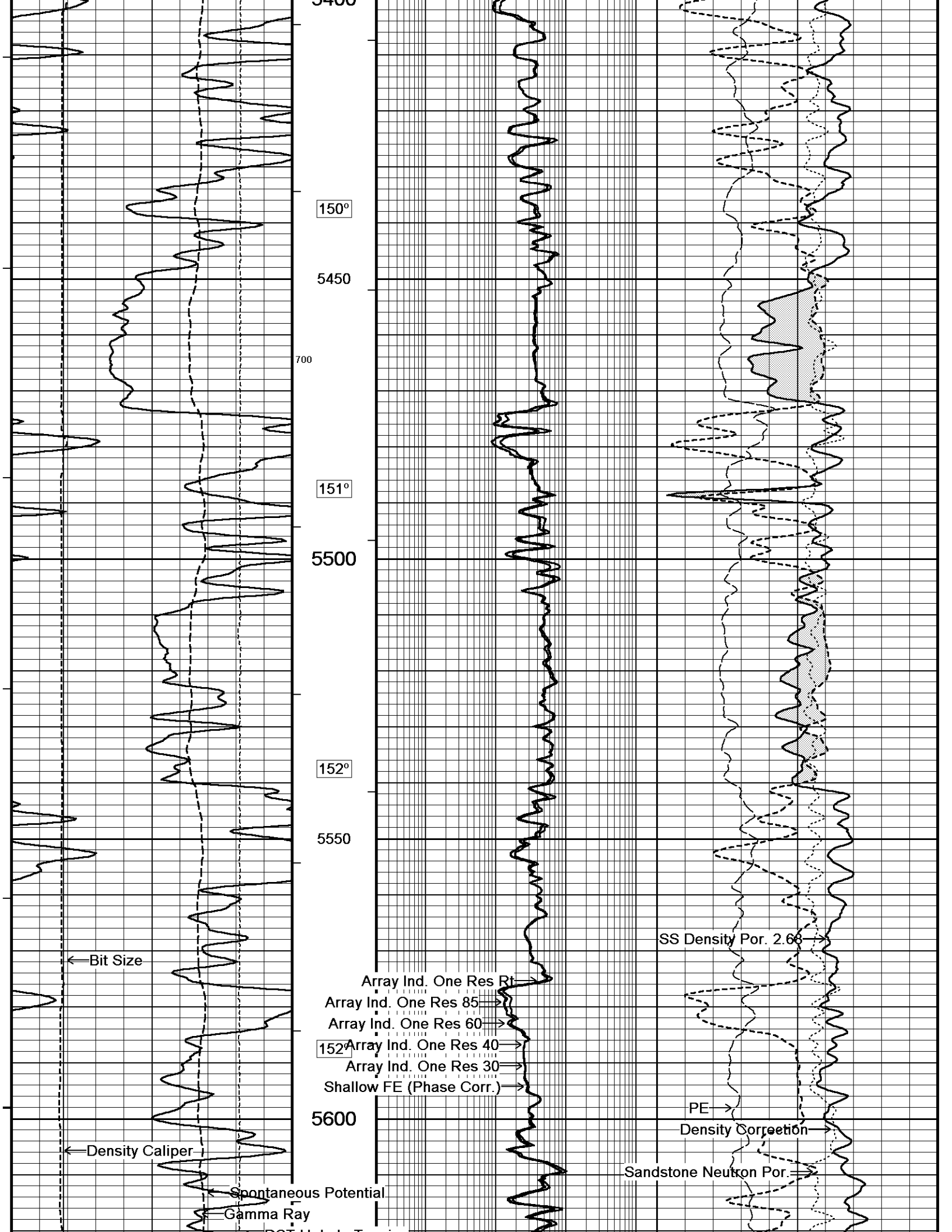

800
137°
4350
137°
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
4400
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
138°
DST Uphole Tension
4450
1100
139°
4500

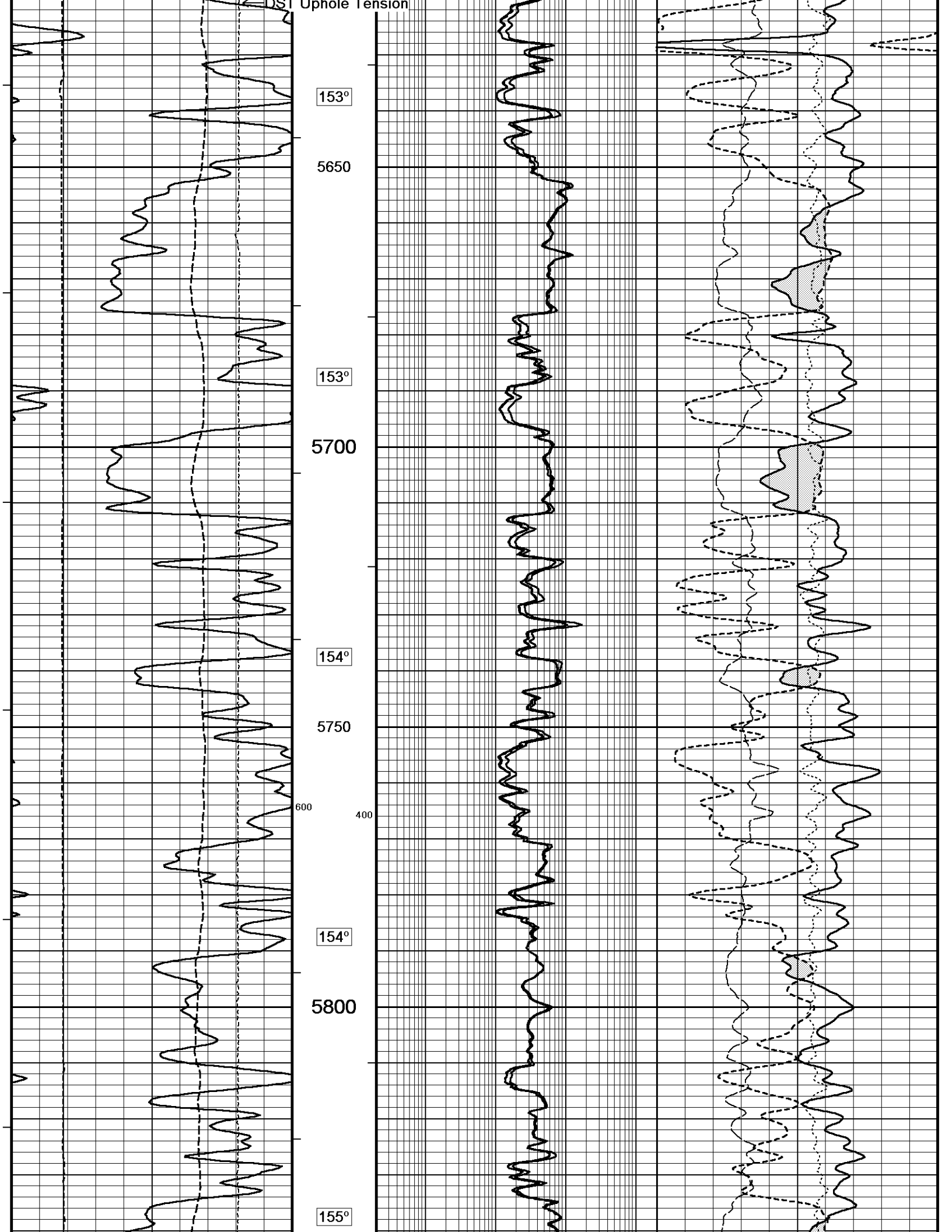

139°
4550
140°
4600
700
140°
4650
1000
141°
4700
141°

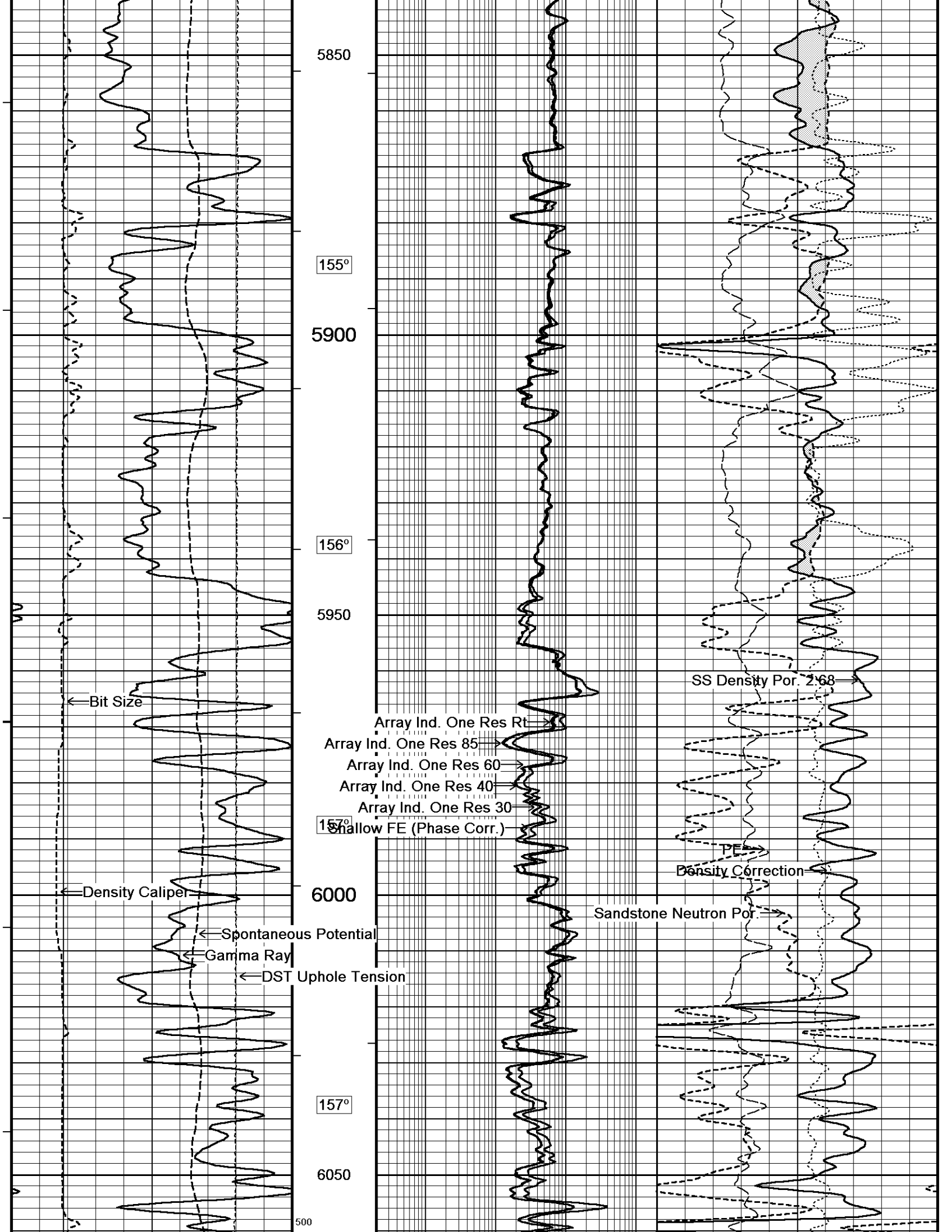

4750
SS Density Por, 2.68
Bit Size
140°
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
4800
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
142°
4850
143°
4900
900
600
144°
4950

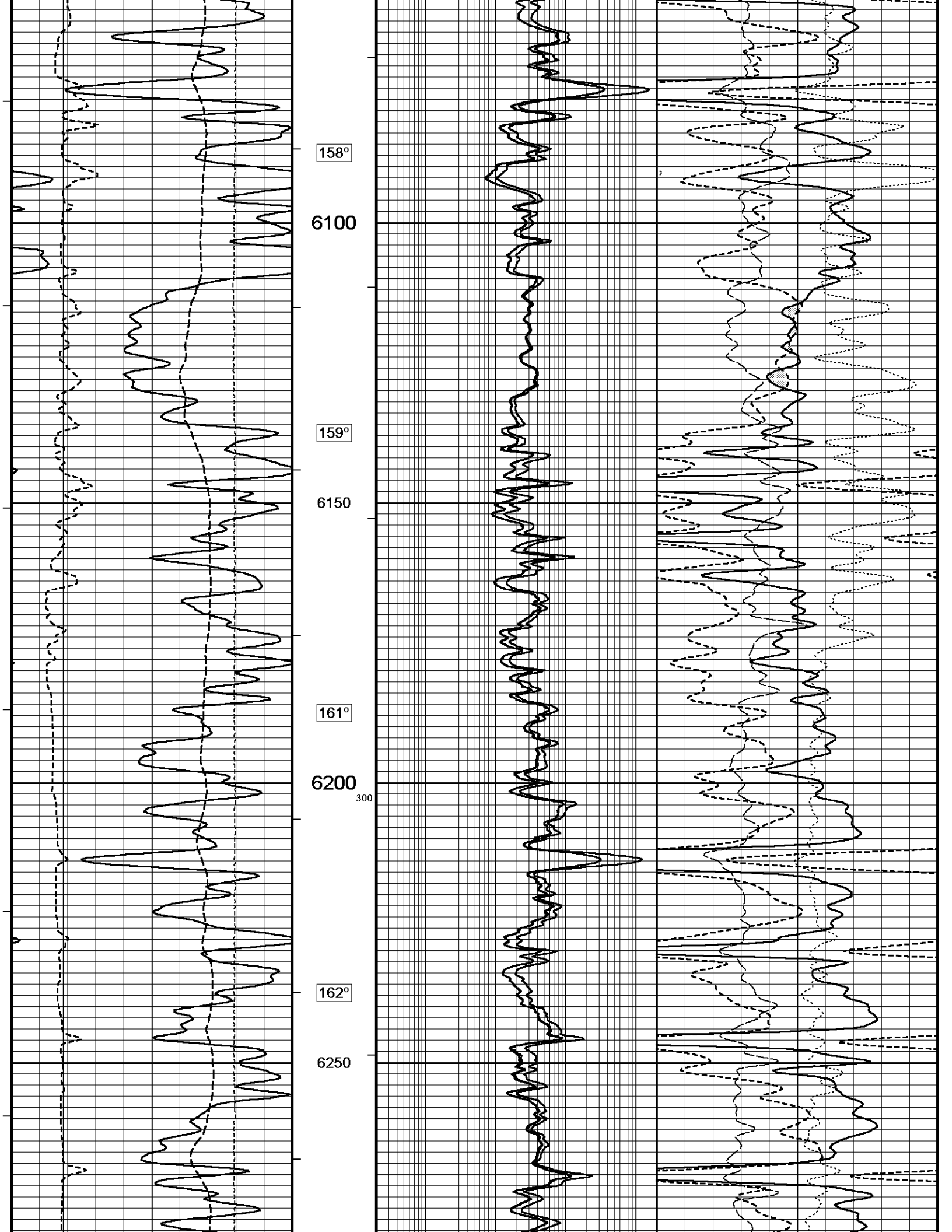

144°
5000
145°
5050
146°
5100
146°
5150
800
←Bit Size
SS Density Por. 2.68

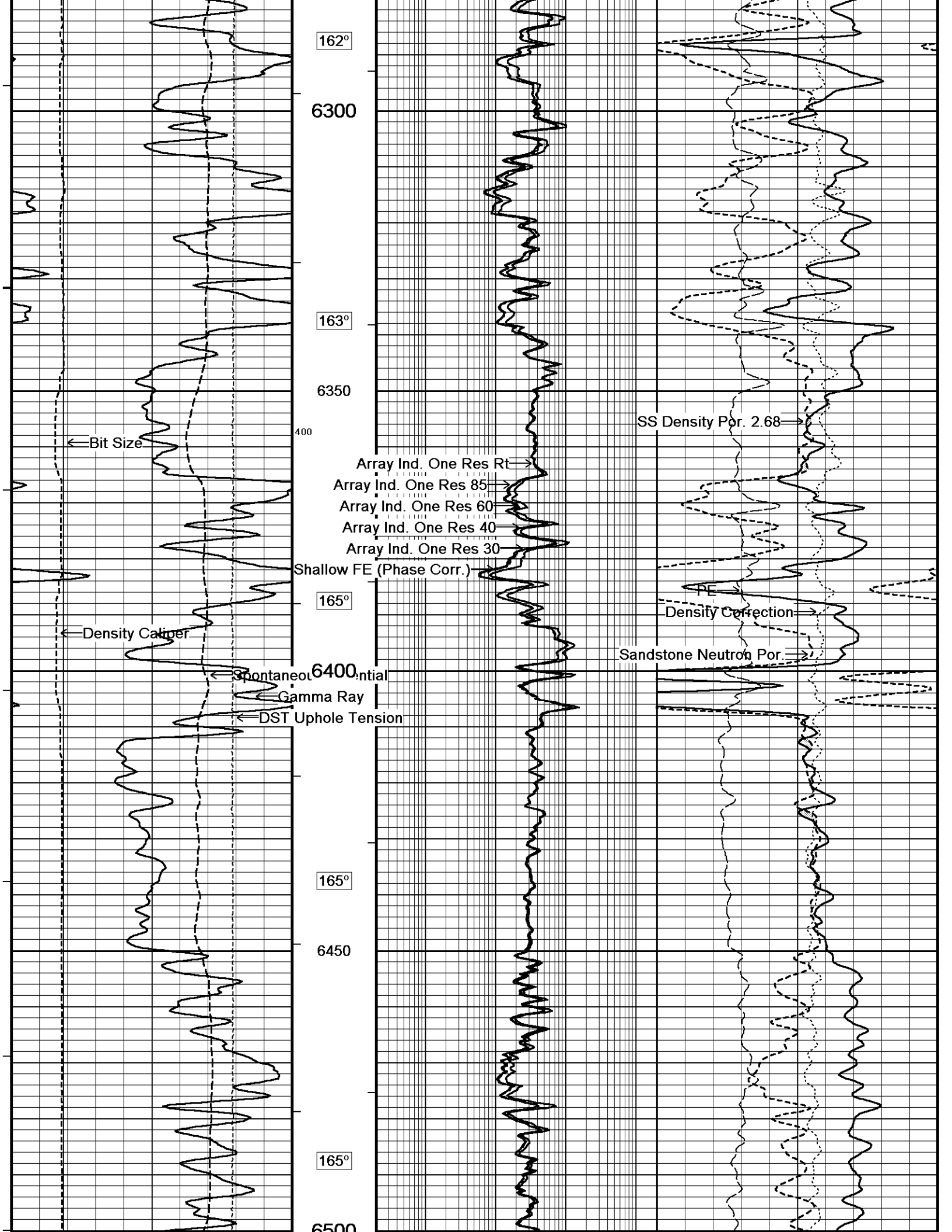

Array Ind. One Res Rt
Array Ind. One Res 85
147°
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
5200
Low FE (Phase Corr.)
PE
Density Correction
Density Caliper
Sandstone Neutron Por
Spontaneous Potential
Gamma Ray
DST Uphole Tension
148°
5250
148°
5300
500
149°
5350
150°
5400


5400
150°
5450
700
151°
5500
152°
5550
152°
5600
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
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. 2.65
PE
Density Correction
Sandstone Neutron Por.


DST Uphole Tension
153°
5650
153°
5700
154°
5750
600
400
154°
5800
155°


5850
155°
5900
156°
5950
157°
6000
157°
6050
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.
500


158°
6100
159°
6150
161°
6200
300
162°
6250


162°
6300
163°
6350
400
Bit Size
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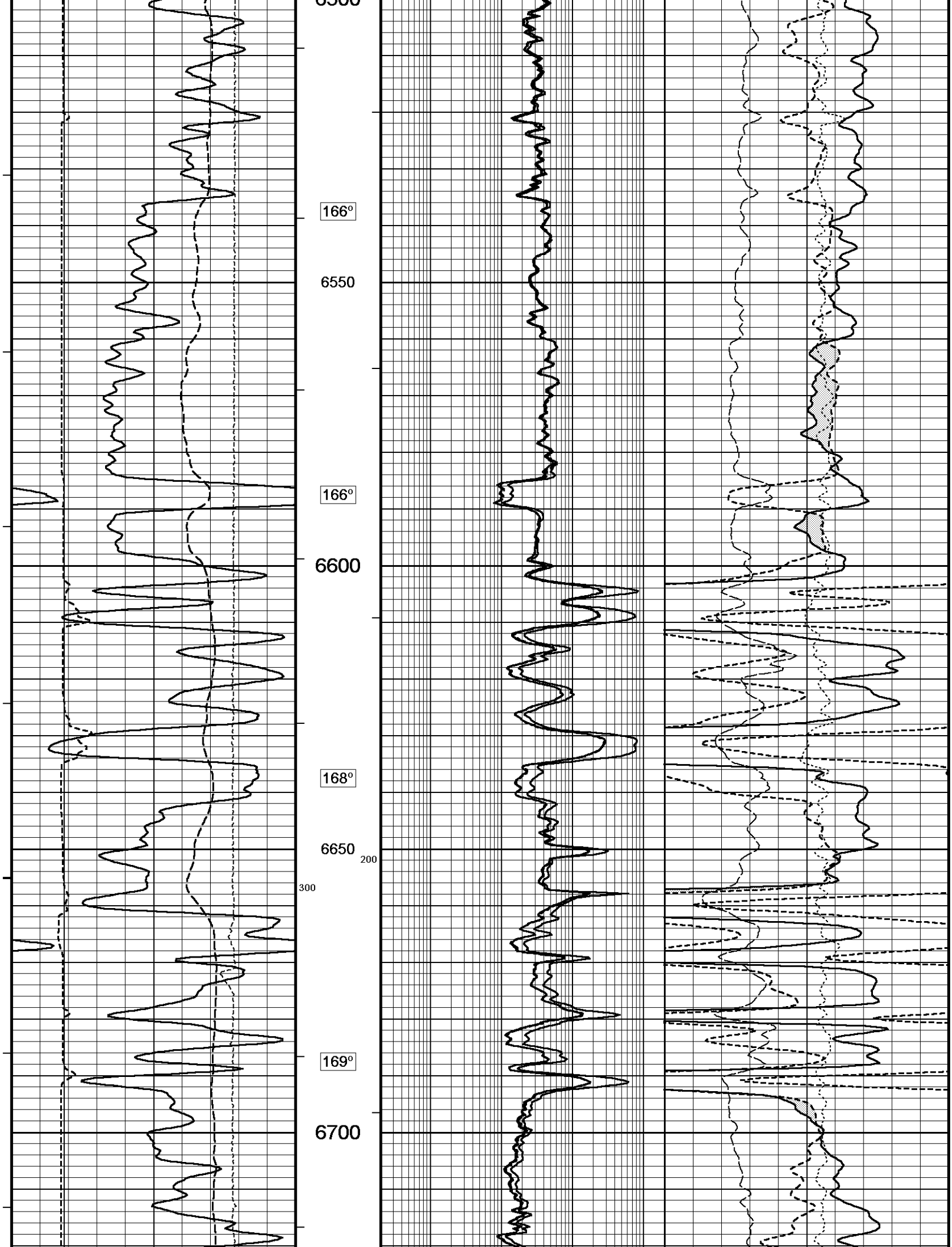
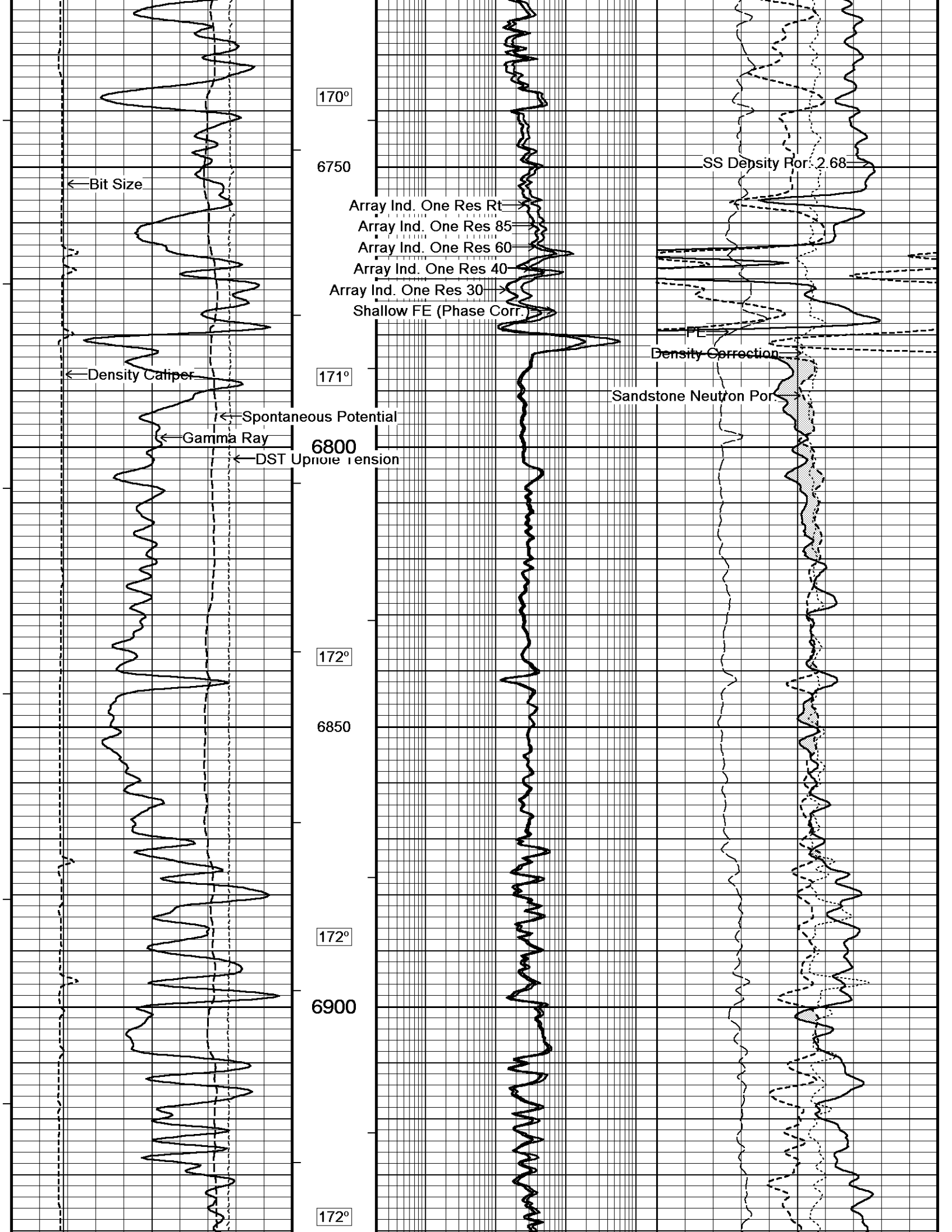
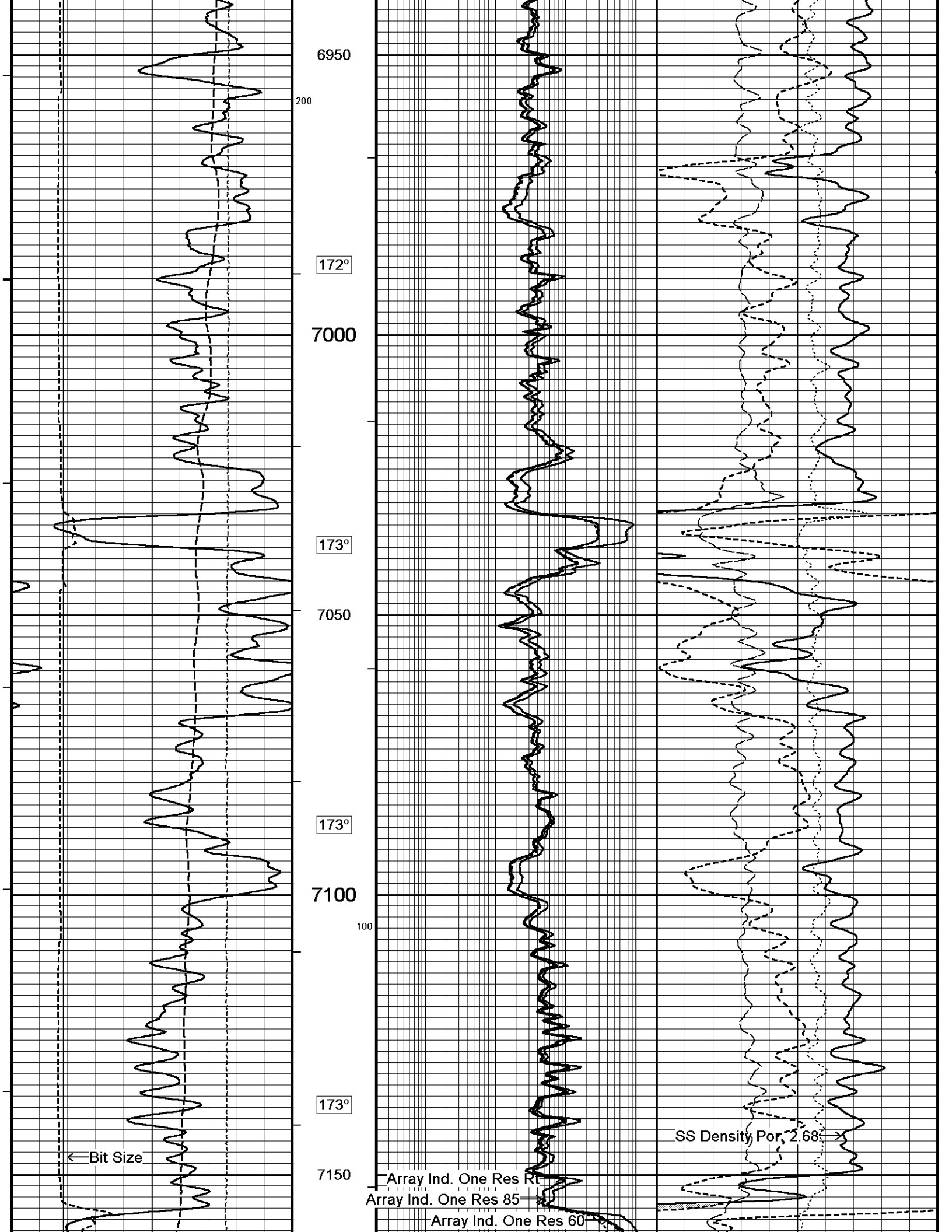
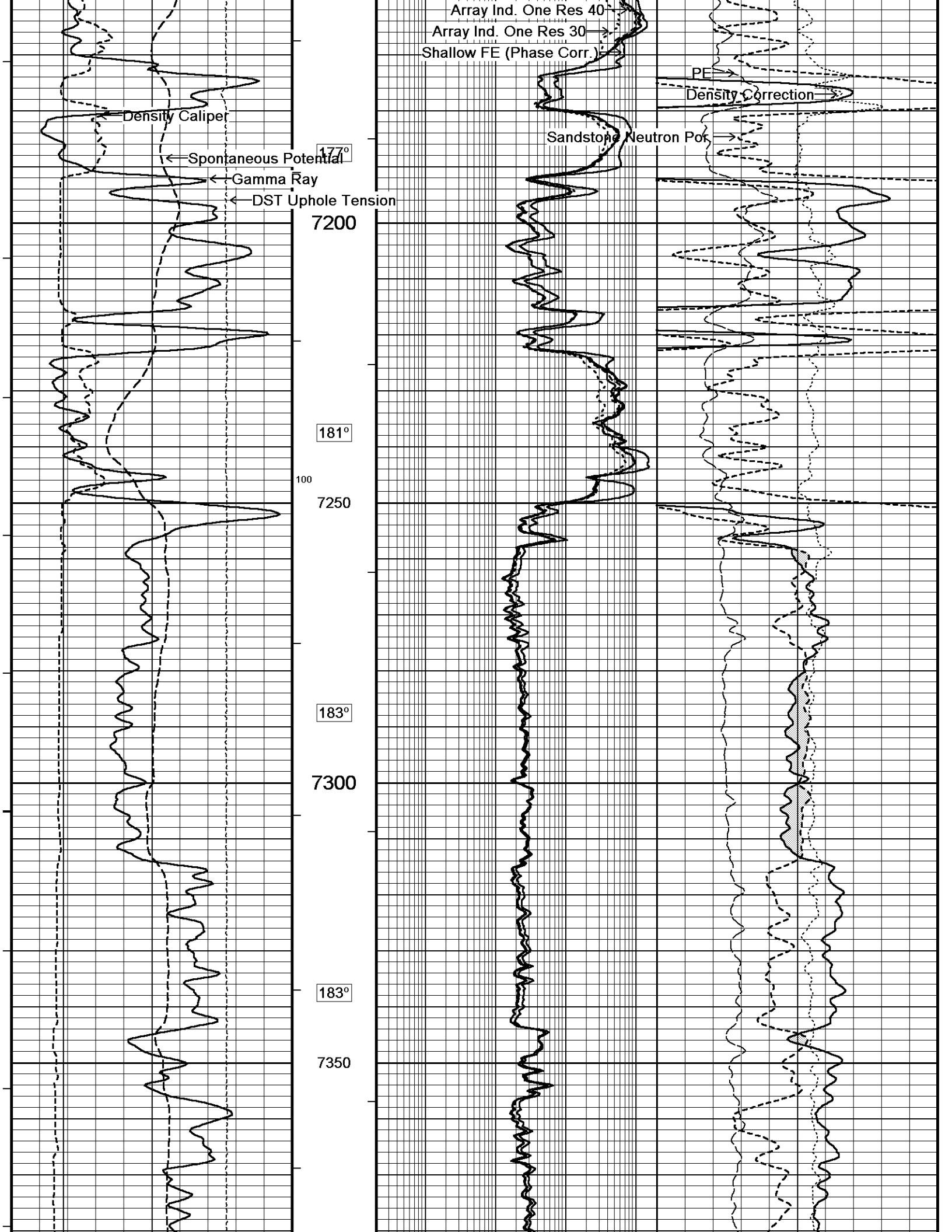
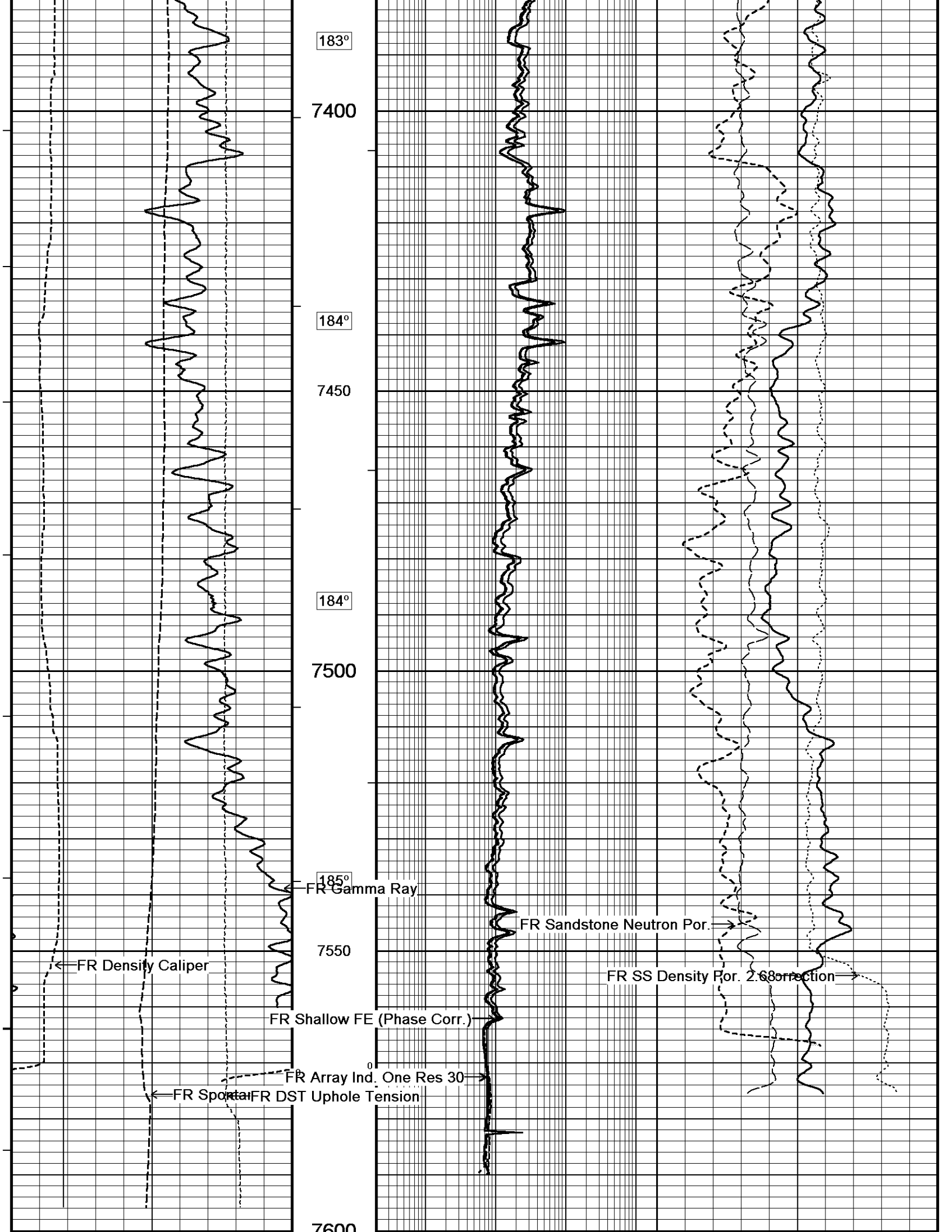
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
165°
Density Caliper
Sandstone Neutron Por.
6400
Gamma Ray
DST Uphole Tension
165°
6450
165°
6500

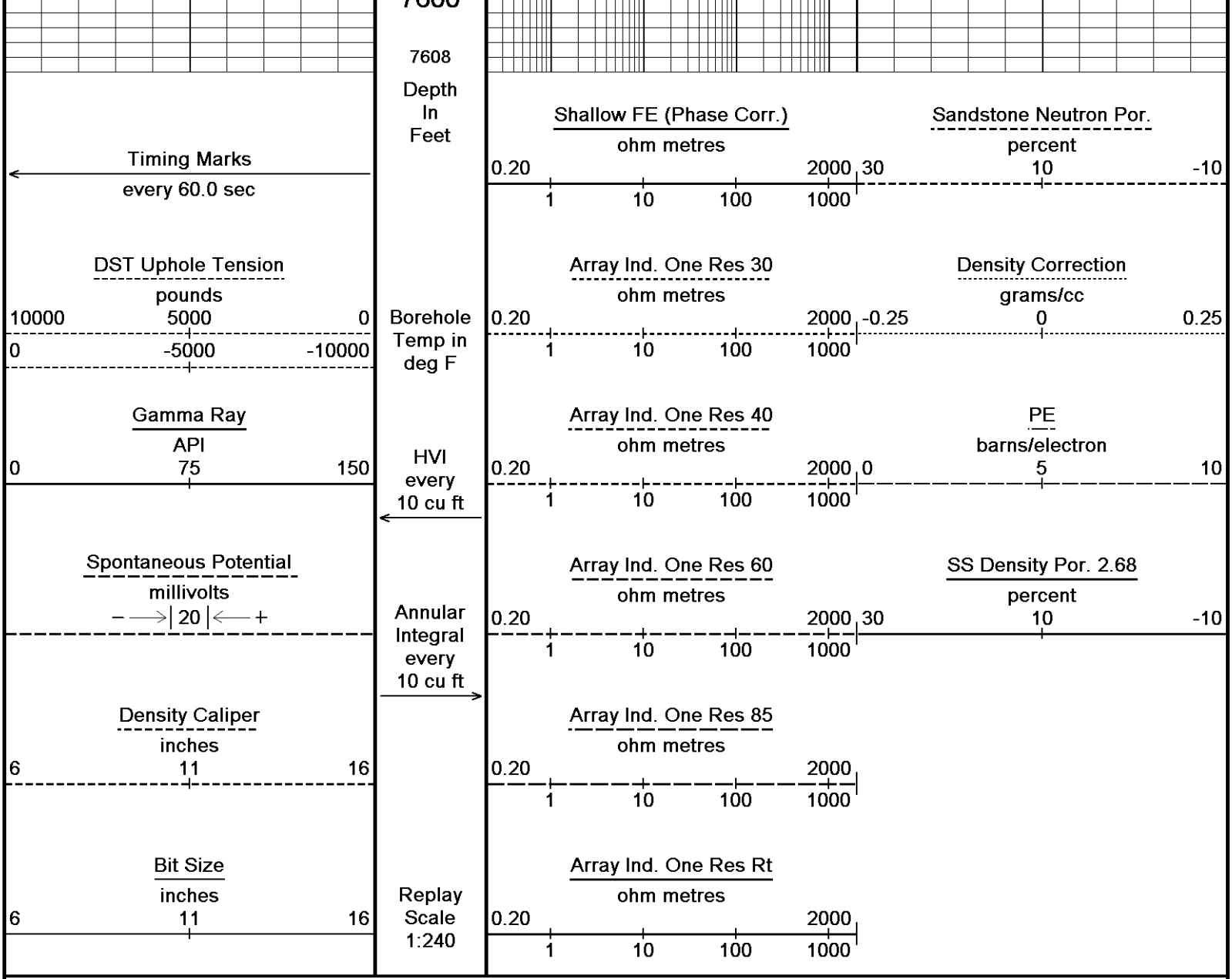

166°
6550
166°
6600
168°
6650
200
300
169°
6700


170°
6750
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
171°
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
6800
DST Uphole Tension
172°
6850
172°
6900
172°


6950
200
172°
7000
173°
7050
173°
7100
100
173°
7150
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
Sandstone Neutron Por
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
177°
7200
181°
100
7250
183°
7300
183°
7350


183°
7400
184°
7450
184°
7500
185°
7550
FR Gamma Ray
FR Density Caliper
FR Sandstone Neutron Por.
FR SS Density Por. 2.68orrection
FR Shallow FE (Phase Corr.)
0
FR Array Ind. One Res 30
FR Sponta
FR DST Uphole Tension

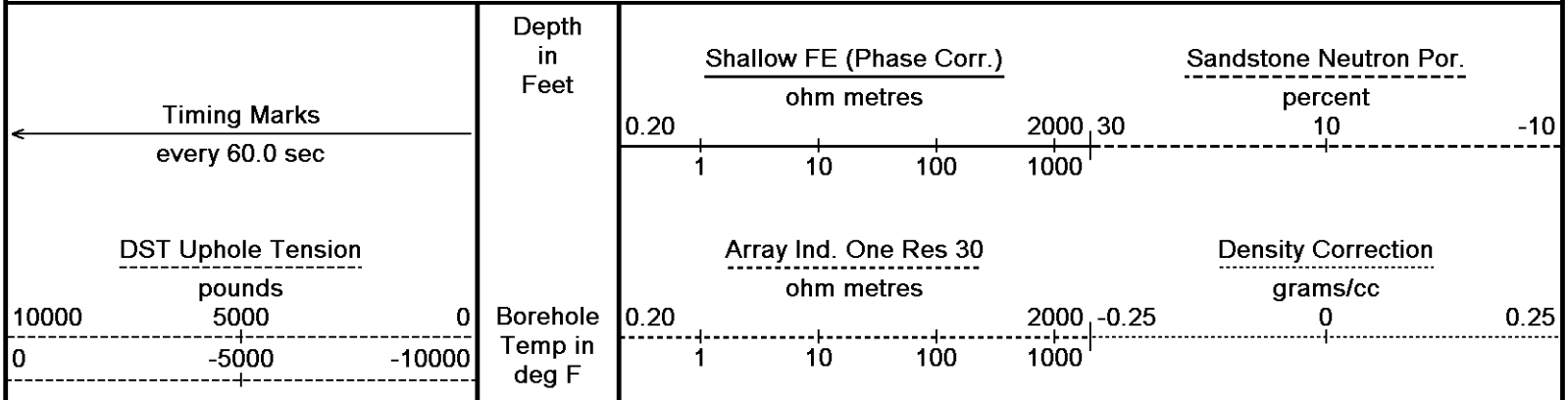


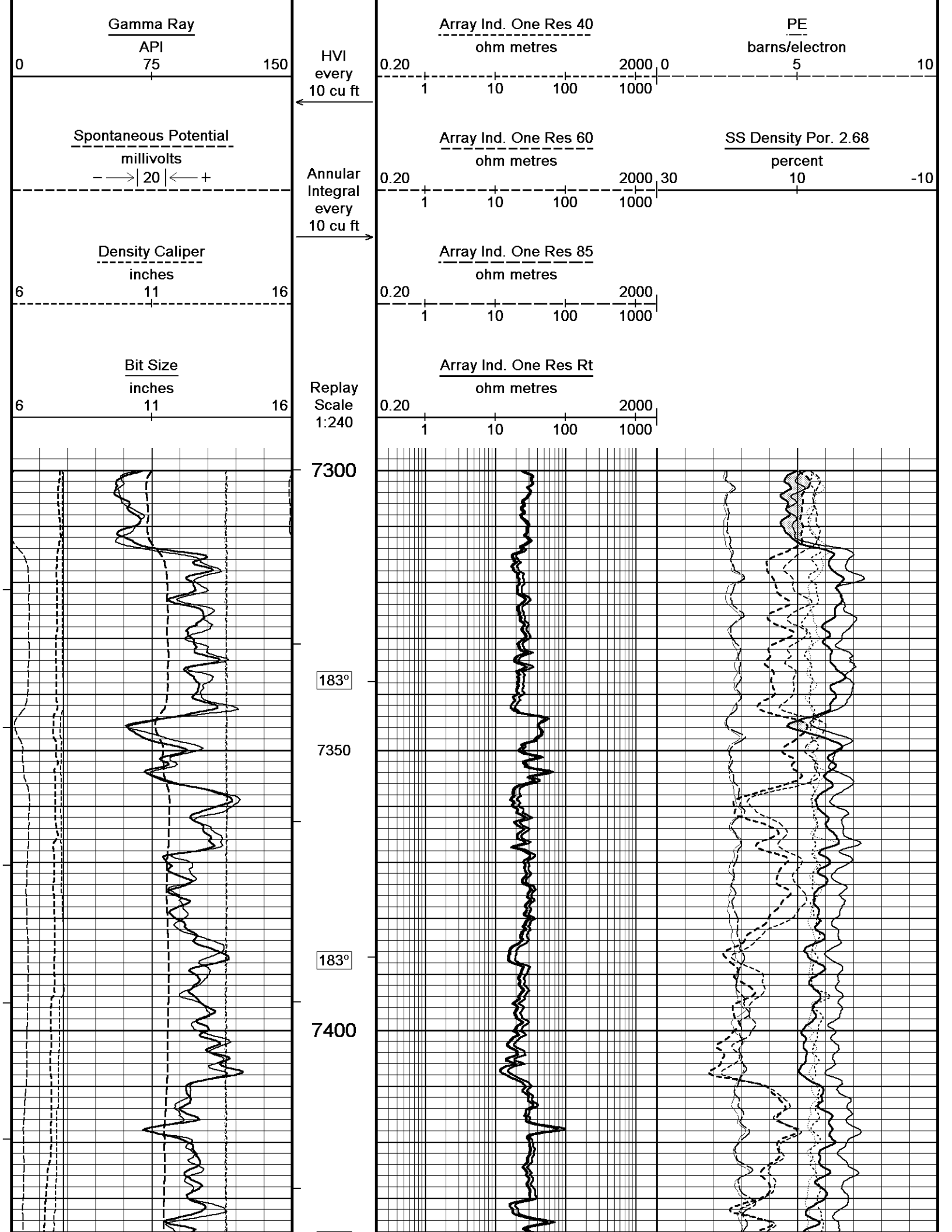
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 06-FEB-2011 22:00
Filename: C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN-3.dta
Recorded on 06-FEB-2011 17:45
System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198

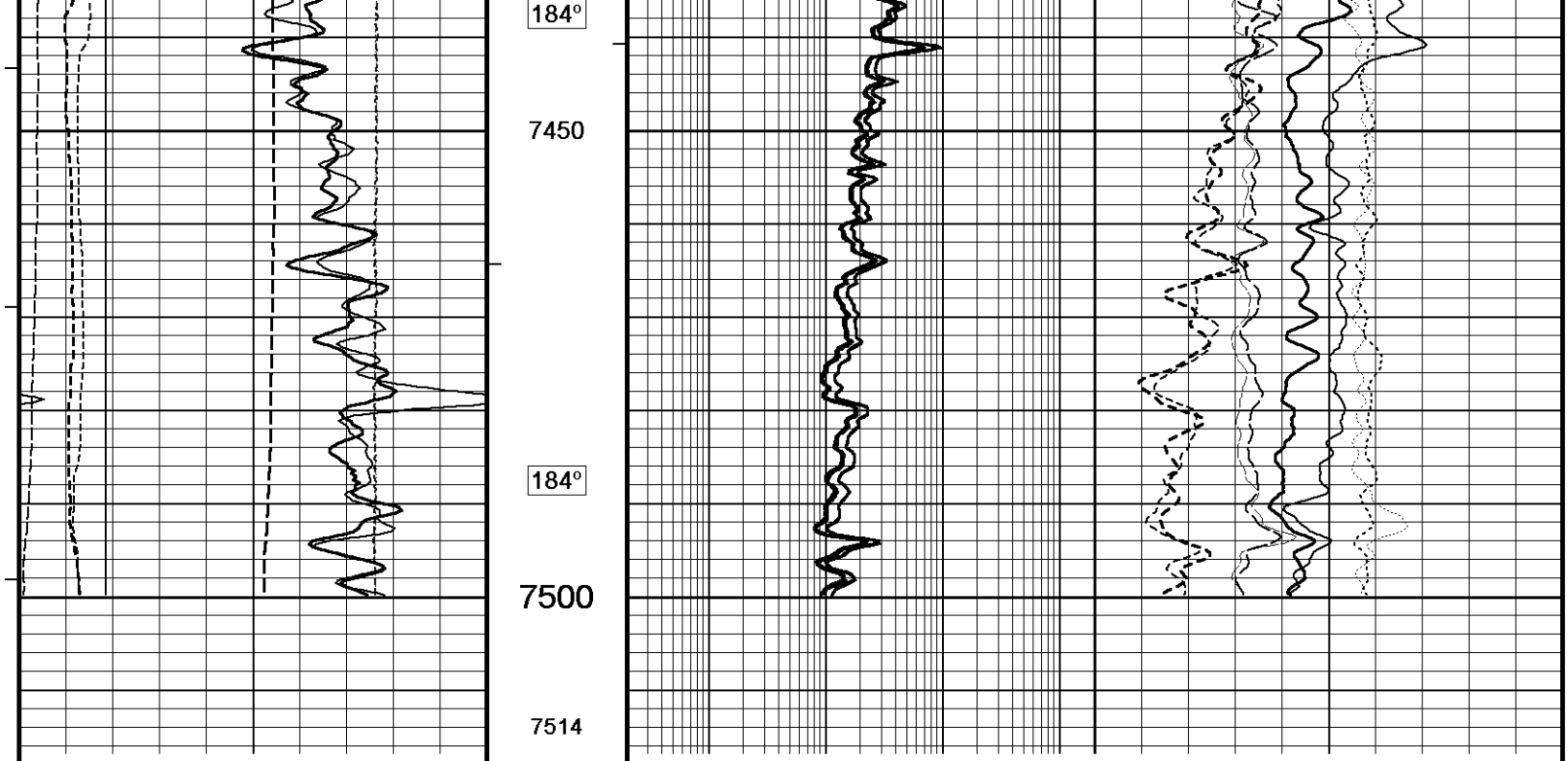
5 INCH MAIN LOG

MAIN-2
MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 06-FEB-2011 22:00
Filename: C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN-3.dta
Recorded on 06-FEB-2011 17:45
Filename: C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN.dta
Recorded on 06-FEB-2011 17:26
System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198




Gamma Ray
API
0
75
150
Spontaneous Potential
millivolts
– 20 +
Density Caliper
inches
6
11
16
Bit Size
inches
6
11
16
HVI
every
10 cu ft
Annular
Integral
every
10 cu ft
Replay
Scale
1:240
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
PE
barns/electron
0
5
10
SS Density Por. 2.68
percent
30
10
-10
7300
183°
7350
183°
7400



Depth in Feet

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

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

Sandstone Neutron Por.
percent
30 10 -10

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

Density Correction
grams/cc
-0.25 0 0.25

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

PE
barns/electron
0 5 10

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

SS Density Por. 2.68
percent
30 10 -10

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

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 06-FEB-2011 22:00
Filename: C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN-3.dta
Recorded on 06-FEB-2011 17:45
Filename: C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN.dta
Recorded on 06-FEB-2011 17:26
System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198

MAIN-2
MAIN

BEFORE SURVEY CALIBRATION

C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN-3.dta

General Constants All 000

Last Edited on 06-FEB-2011,15:54

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	

Down-hole Tension Calibration SMS 0

Field Calibration on 06-FEB-2011 15:48

Reading No	Measured	Calibrated (lbs)
1	16353.34	0.00
2	17112.47	368.20

High Resolution Temperature Calibration MCG-C 192

Field Calibration on 06-FEB-2011,15:54

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

High Resolution Temperature Constants MCG-C 192

Last Edited on 13-DEC-2010,09:50

Pre-filter Length	11

SP Calibration MCG-C 192

Field Calibration on 06-FEB-2011,15:54

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

Gamma Calibration MCG-C 192

Field Calibration on 06-FEB-2011 13:53

	Measured	Calibrated (API)
Background	104	71
Calibrator (Gross)	1442	983
Calibrator (Net)	1338	912

Gamma Constants MCG-C 192

Last Edited on 31-JAN-2011,20:29

Gamma Calibrator Number	GRC-072	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN-A.B 160

Base Calibration on 25-DEC-2010,03:47
Field Check on 06-FEB-2011 13:58

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)	
	1288	1940
Ratio	0.664	

Neutron Constants MDN-A.B 160

Last Edited on 06-FEB-2011,21:31

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 06-FEB-2011 14:02

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	10.7	1.3
Reference 2	965.5	126.8
Base Check		281.9
Field Check		282.1

FE Constants MFE-A.A 85

Last Edited on 06-FEB-2011,20:58

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Caliper Source for FE correction	Bit Size	
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 212

Field Calibration on 25-JAN-2011,16:12

	Measured	Calibrated(Deg F)
Lower	10.00	50.00
Upper	100.00	212.00

High Resolution Temperature Constants MAI-B.A 212

Last Edited on 03-JAN-2011,01:08

Pre-filter Length	11

Induction Calibration MAI-B.A 212

Base Calibration on 12-NOV-2010,10:48
Field Check on 06-FEB-2011 14:07

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	16.6	473.9	9.3	966.2
2	6.2	387.5	7.6	821.4
3	3.9	263.1	5.2	566.0
4	2.0	132.9	2.6	279.2

Array Temperature 71.2 Deg F

Channel	Base Check (mmho/m) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High

1	13.3	3845.3	13.5	3845.0	
2	29.5	3491.6	29.5	3491.7	
3	27.4	3023.7	27.4	3023.9	
4	19.5	2088.0	19.5	2088.0	
Deep	17.0	2014.9	16.9	2015.1	
Medium	39.5	3941.1	39.5	3941.5	
Shallow	44.0	5105.2	44.0	5105.3	
Array Temperature		56.5		57.9	Deg F

Induction Constants MAI-B.A 212

Last Edited on 06-FEB-2011,14:04

Induction Model	RtAP-WBM	
Caliper for Borehole Corr.	Bit Size	
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	0.0000	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	

Caliper Calibration MPD-B 167

Base Calibration on 21-JAN-2011 16:11
Field Calibration on 06-FEB-2011,14:09

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	18525	4.00
2	27040	5.96
3	34832	7.98
4	43072	9.86
5	52544	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.05	5.96

Photo Density Calibration MPD-B 167

Base Calibration on 21-JAN-2011 15:55
Field Check on 06-FEB-2011 15:53

Density Calibration

Base Calibration

	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	48339	18513	53115	19186
Reference 2	22777	2049	25020	2526

Reference 2	22777	3049	25020	2536

Field Check at Base

1168.2	1745.6

Field Check

1176.7	1744.7

PE Calibration

Base Calibration

	WS	Measured WH	Ratio	Calibrated Ratio
Background	216	1046		
Reference 1	14699	48168	0.307	0.320
Reference 2	5890	22643	0.263	0.272

Field Check at Base

216.3	1045.7

Field Check

212.4	1046.5

Density Constants MPD-B 167

Last Edited on 06-FEB-2011,13:47

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	1.25	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:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN-3.dta

Gamma Check MCG-C 192

Field Calibration on 06-FEB-2011 13:53
After Survey Check on 06-FEB-2011 21:30

	Before (API)	After (API)
Background	71	59
Calibrator (Gross)	983	971
Calibrator (Net)	912	912

Neutron Check MDN-A.B 160

Before Survey Check on 06-FEB-2011 13:58
After Survey Check on 06-FEB-2011 21:36

Near (cps)		Far (cps)	
Before	After	Before	After
1288	1284	1940	1938

Ratio	
Before	After
0.664	0.663

FE Check MFE-A.A 85

Before Survey Check 06-FEB-2011 14:02
After Survey Check on 06-FEB-2011 20:59

Before (ohm-m)	After (ohm-m)
282.1	281.5

Induction Check MAI-B.A 212

Before Survey Check on 06-FEB-2011 14:07
After Survey Check on 06-FEB-2011 20:58

Channel	Before Survey (mmho/m) Low	Before Survey (mmho/m) High	After Survey (mmho/m) Low	After Survey (mmho/m) High	
1	13.5	3845.0	15.4	3844.2	
2	29.5	3491.7	30.1	3489.7	
3	27.4	3023.9	27.8	3022.1	
4	19.5	2088.0	19.6	2086.8	
Deep	16.9	2015.1	17.2	2014.0	
Medium	39.5	3941.5	39.7	3938.9	
Shallow	44.0	5105.3	44.9	5102.2	
Array Temperature		57.9		87.0	Deg F

Photo Density Check MPD-B 167

Before Survey Check on 06-FEB-2011 15:53
After Survey Check on 06-FEB-2011 21:04

Density Check

Near Before	Near After	Far Before	Far After
1176.7	1172.2	1744.7	1745.3

PE Check

	Before	After
WS	212.4	212.9
WH	1046.5	1045.4

DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Bill Barrett\GGU Federal 41D-29-691\MAIN-3.dta

3/8" Triple Cone Cable Head (MCB F B)
MCB-F.B 9 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-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

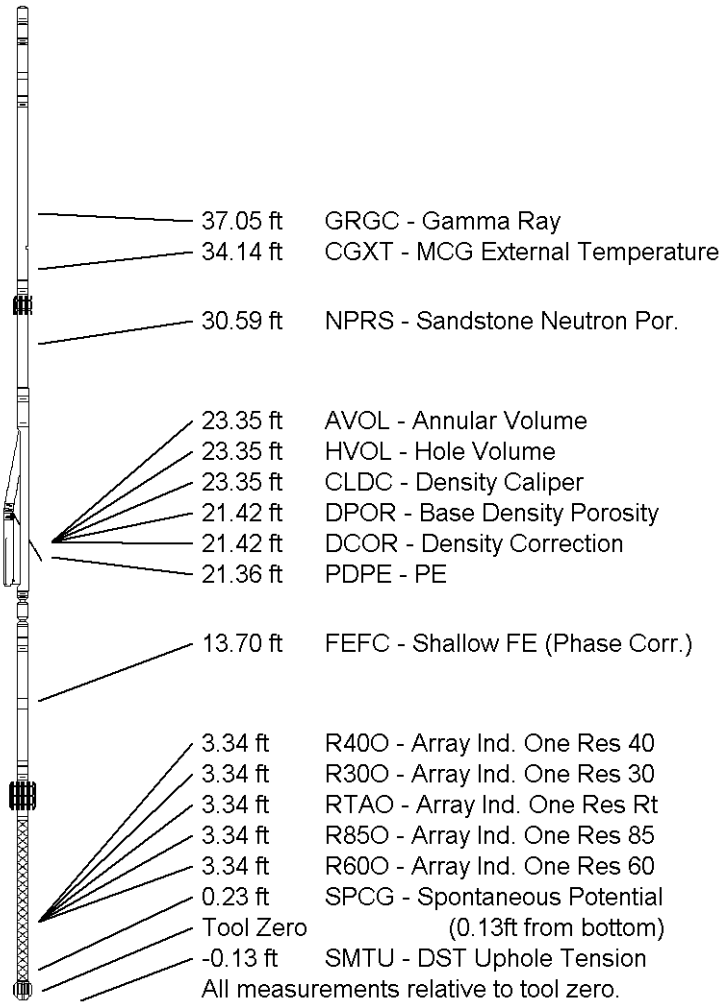
Compact Density/Caliper
MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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

Compact Focussed Electric
MFE-A.A 85 LG: 6.03 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.A 212 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 46.65 ft Weight: 368.2 lb



COMPANY	BILL BARRETT CORPORATION
WELL	GGU FEDERAL 41D-29-691

WELL	COG FEDERAL HD 29-30I
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet	First Reading	7576.00	
Elevation Drill Floor	6126.00	feet	Depth Driller	7575.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7576.00	feet

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