COMPACT TRIPLE COMBO
QUICKLOOK
LOG

Weatherford®

COMPANY	BILL BARRETT CORPORATION
WELL	GGU FEDERAL 41B-29-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO
LOCATION	SHL: 1240' FNL & 1367' FEL
	BHL: 819' FNL & 664' FEL

40 Years of Wireline 1970 2010

SEC	TWP	RGE	Other Services
29	6S	91W	

API Number 05-045-19799
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	25-JAN-2011			
Run Number	ONE			
Depth Driller	7435.00	feet		
Depth Logger	7438.00	feet		
First Reading	7438.00			
Last Reading	835.00			
Casing Driller	832.00	feet		
Casing Logger	835.00	feet		
Bit Size	7.880	inches		
Hole Fluid Type	LSND			
Density / Viscosity	11.20 lb/USg	55.00 CP		
PH / Fluid Loss	9.20	6.20 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	3.90 @ 92.0	ohm-m		
Rmf @ Measured Temp	3.12 @ 92.0	ohm-m		
Rmc @ Measured Temp	4.68 @ 92.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	1.97 @184.0	ohm-m		
Time Since Circulation	6 HOURS			
Max Recorded Temp	184.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13173	GD JCT		
Recorded By	J.GARCIA			
Witnessed By	C.CROW			

BOREHOLE RECORD

Last Edited: 25-JAN-2011 16:03

Bit Size inches	Depth From feet	Depth To feet
8.750	832.00	5440.00
7.880	5440.00	7435.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	832.00	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. = 8.92" (9 5/8", 36 LB/FT CASING)

8.75 INCH BIT USED FROM SURFACE CASING TO 5440 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2920 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2170 CU.FT.

ENGINEER(S): J.GARCIA

OPERATOR: L.STAAKE, S.KAISER

SERVICE ORDER: # 3524976

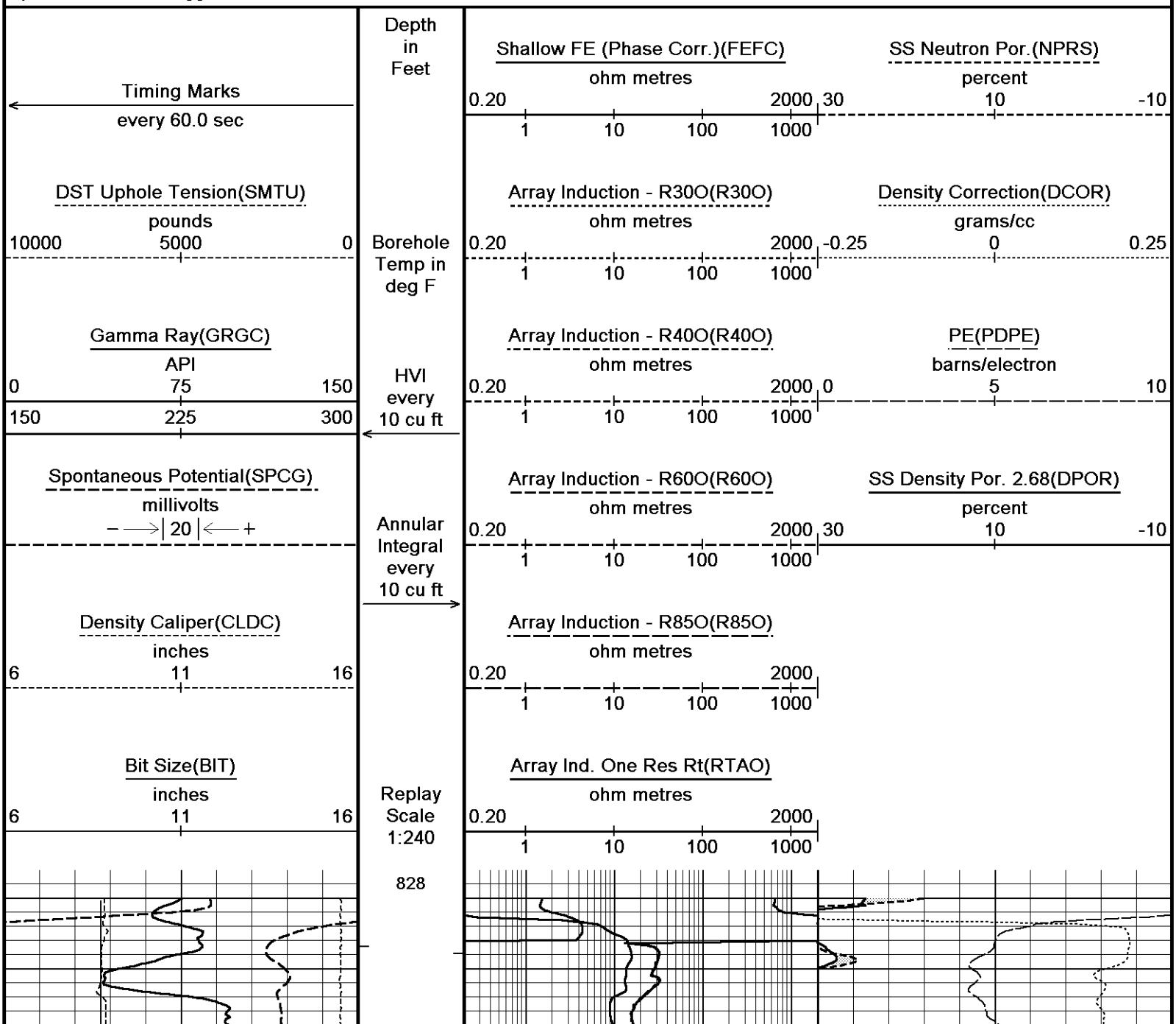
RIG: PATTERSON #307

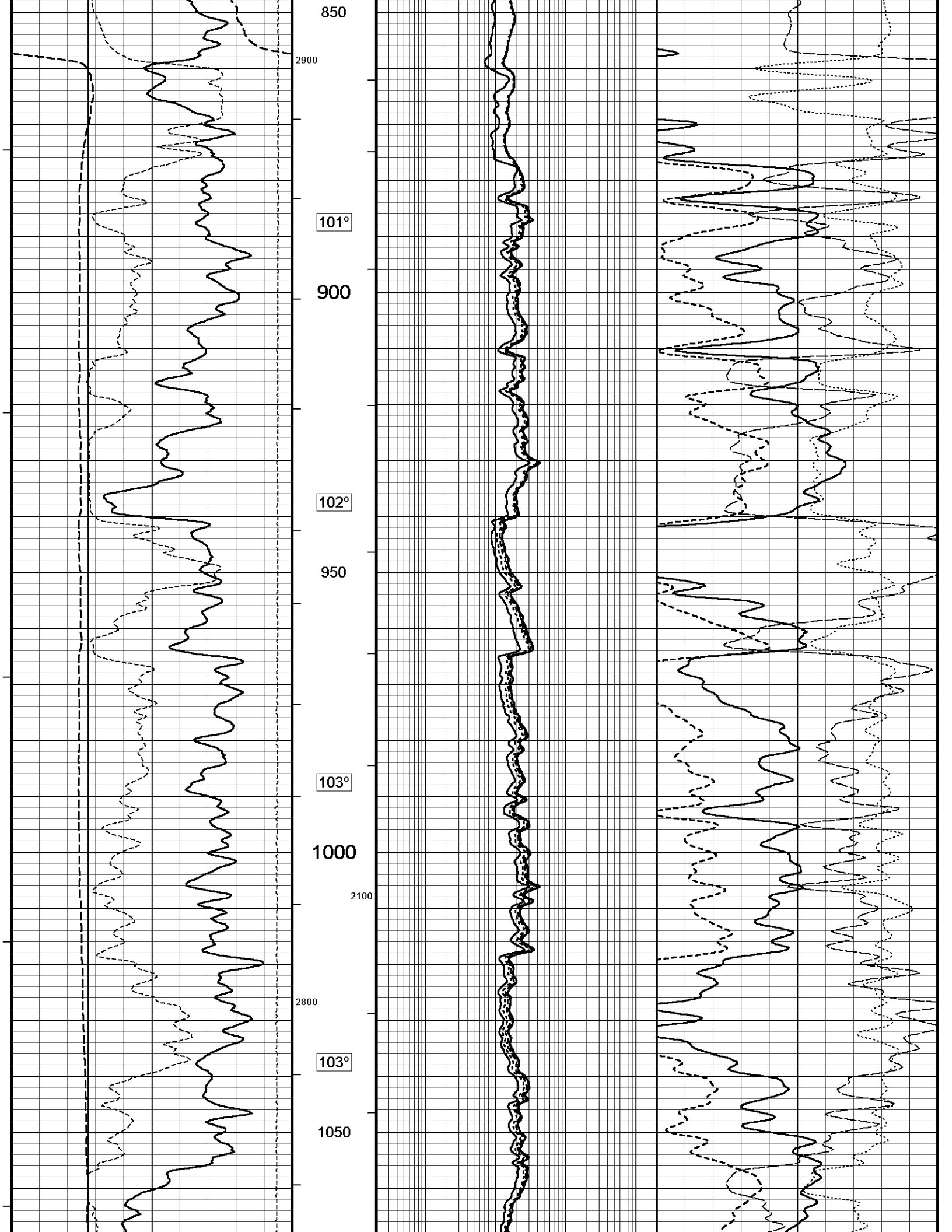
5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 26-JAN-2011 03:36

Filename: C:\Documents and Settings\e145895\Desktop\41b-29-691\MAIN-Reprocessed.dta — Recorded on 25-JAN-2011 20:34

System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198

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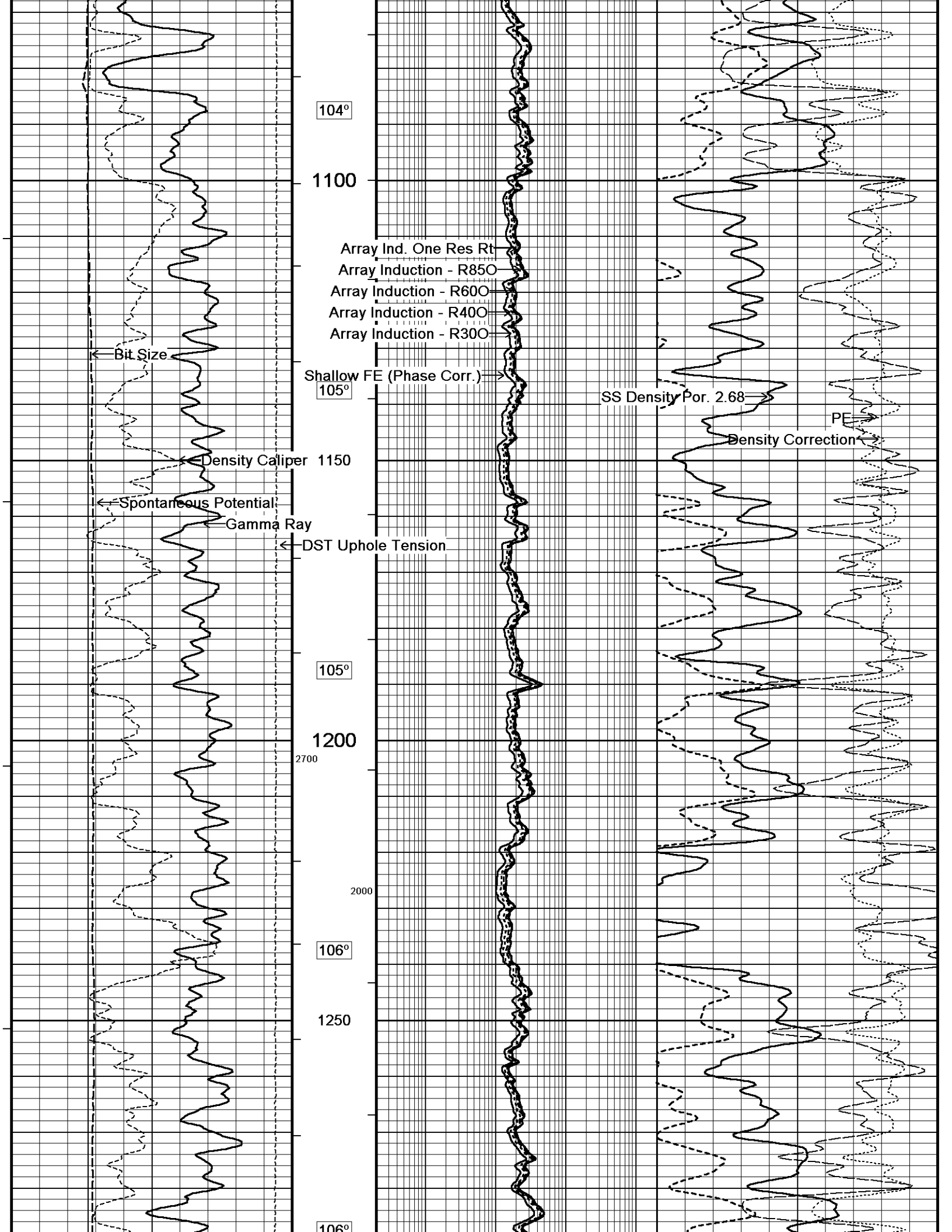
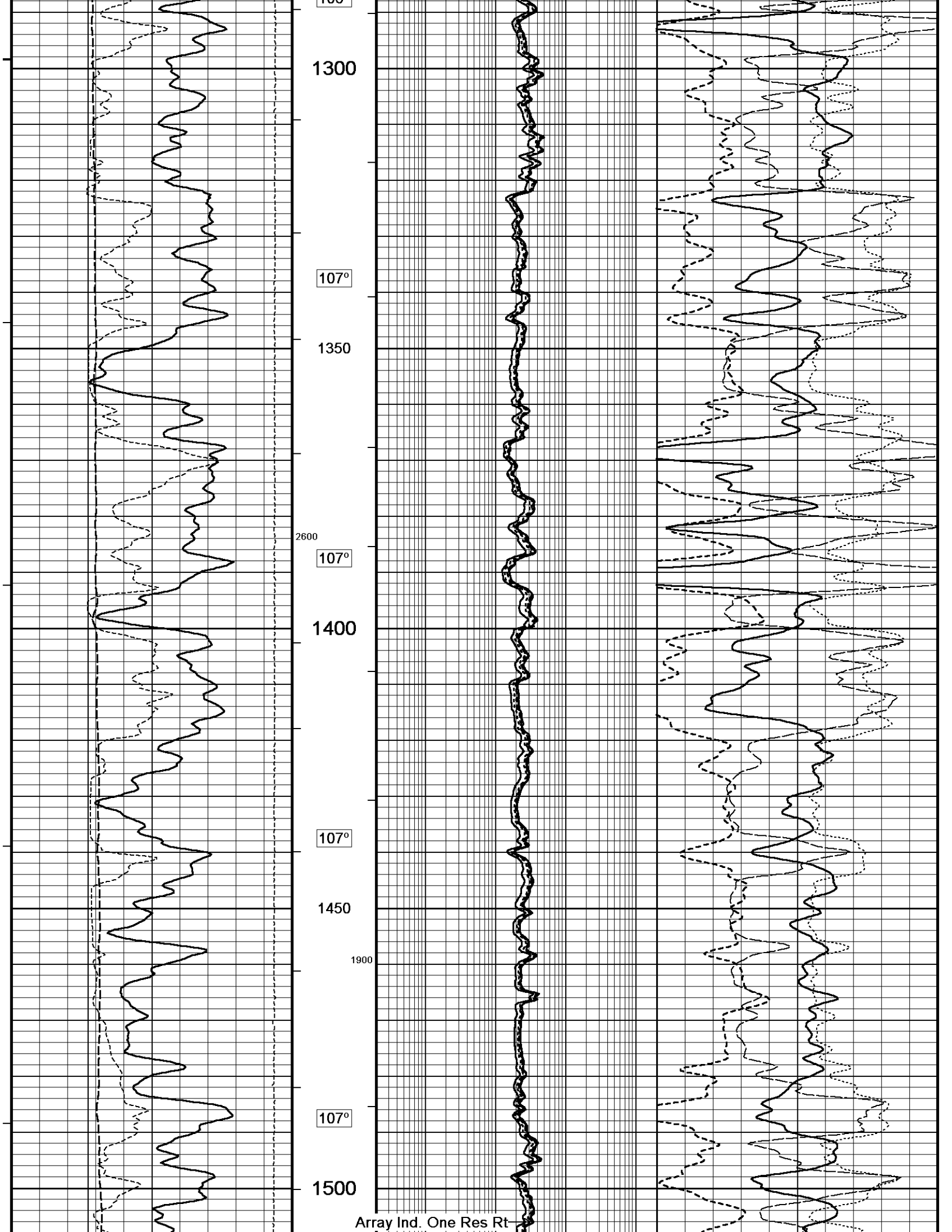
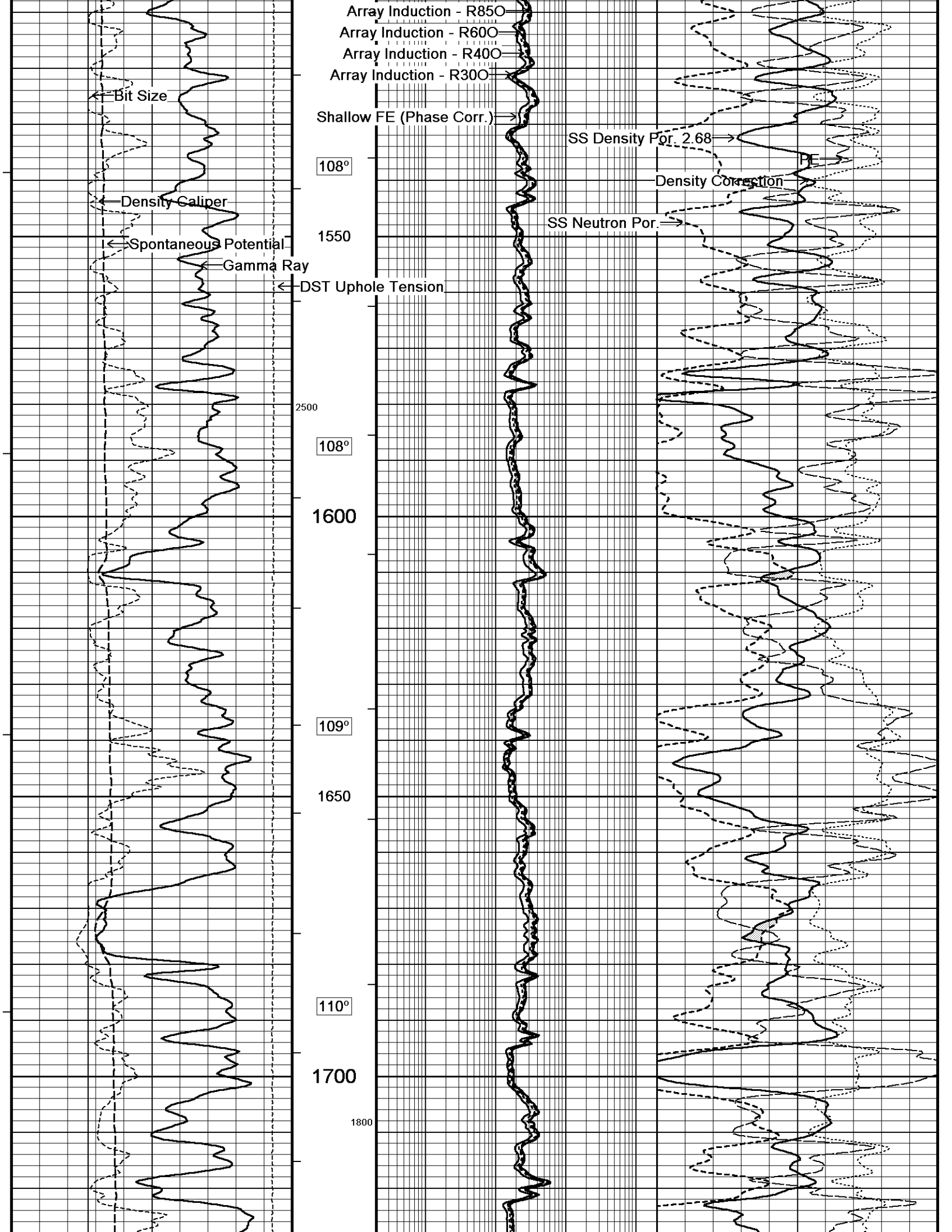
2900
101°
900
102°
950
103°
1000
2100
2800
103°
1050


104°
1100
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Shallow FE (Phase Corr.)
105°
SS Density Por. 2.68
PE
Density Correction
Density Caliper
1150
Spontaneous Potential
Gamma Ray
DST Uphole Tension
105°
1200
2700
2000
106°
1250
106°


1300
107°
1350
2600
107°
1400
107°
1450
1900
107°
1500
Array Ind. One Res Rt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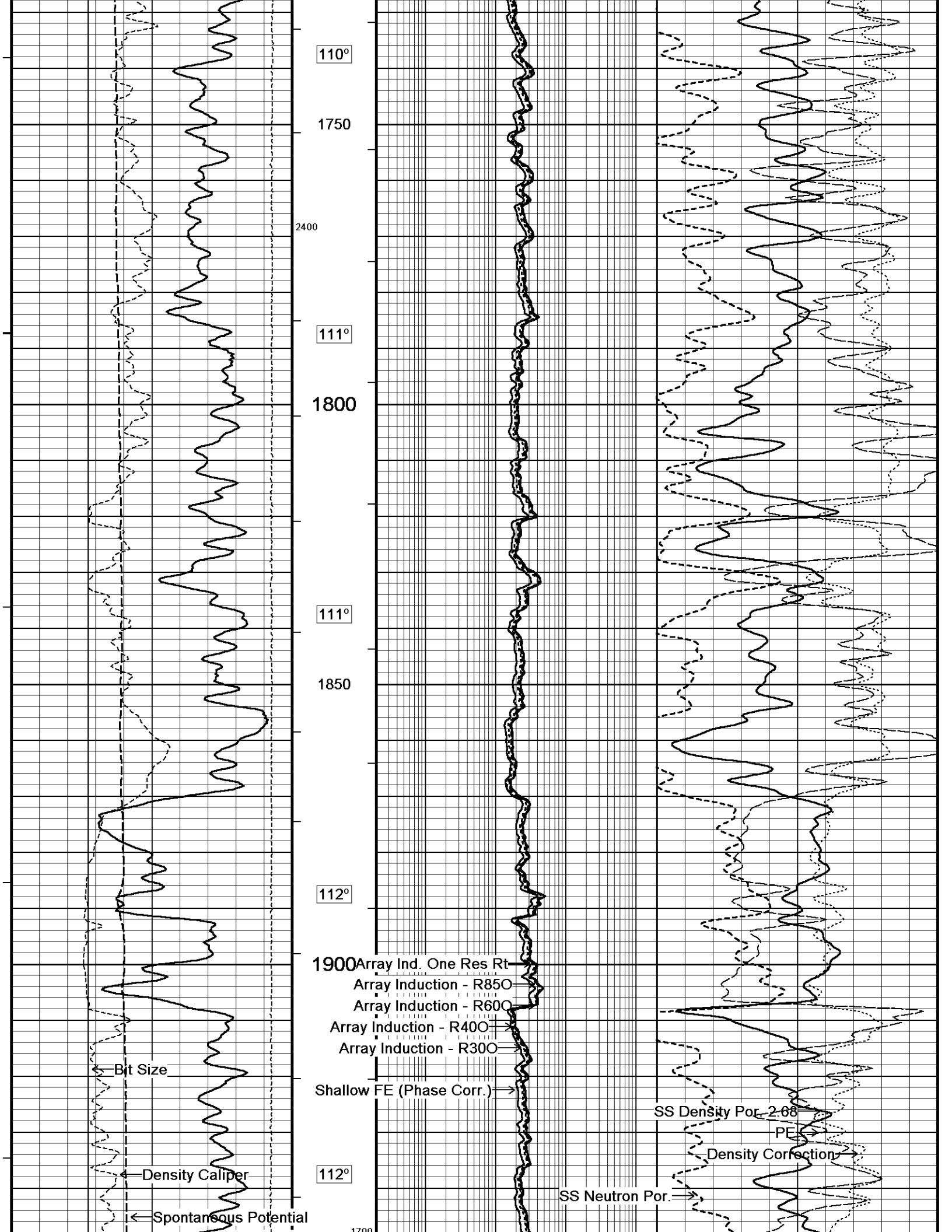
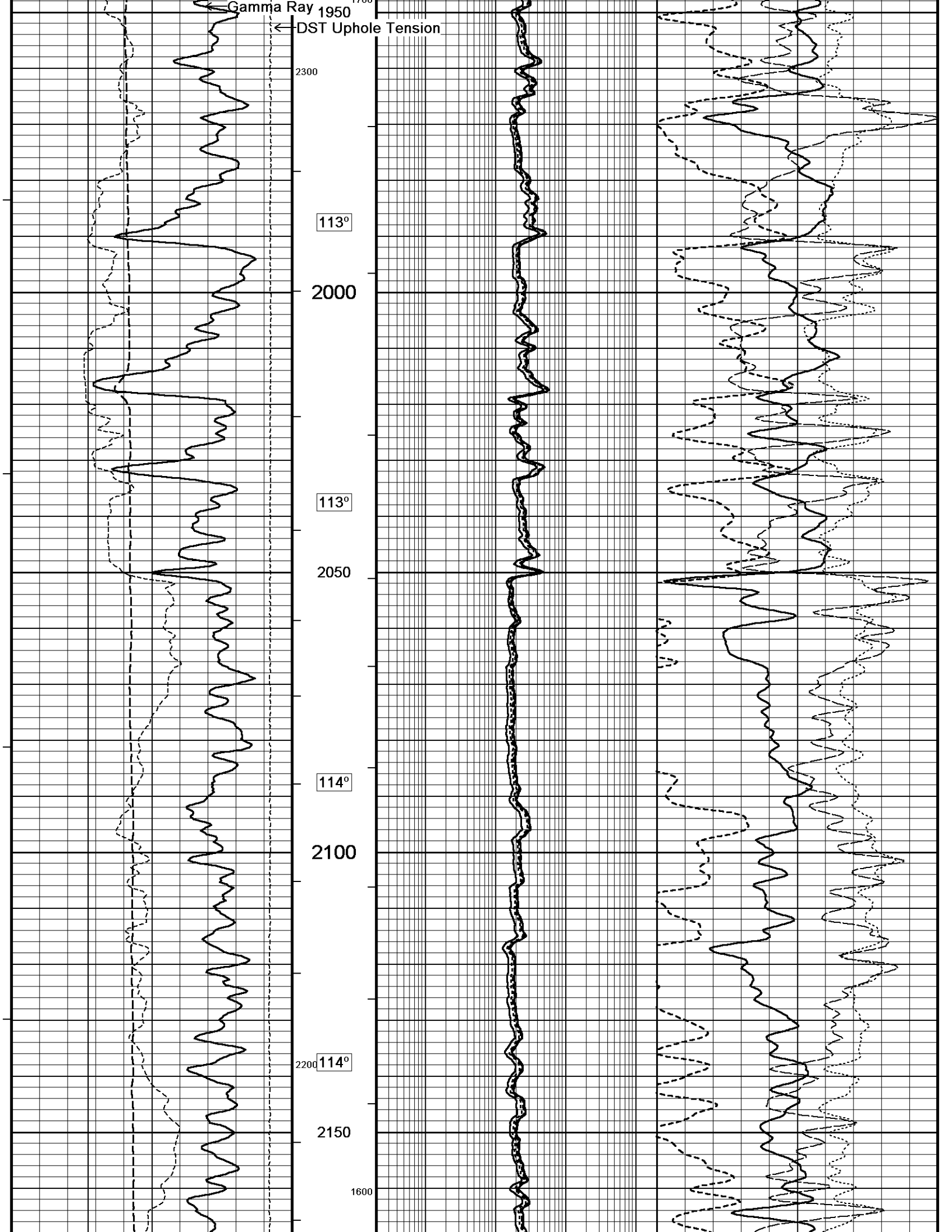
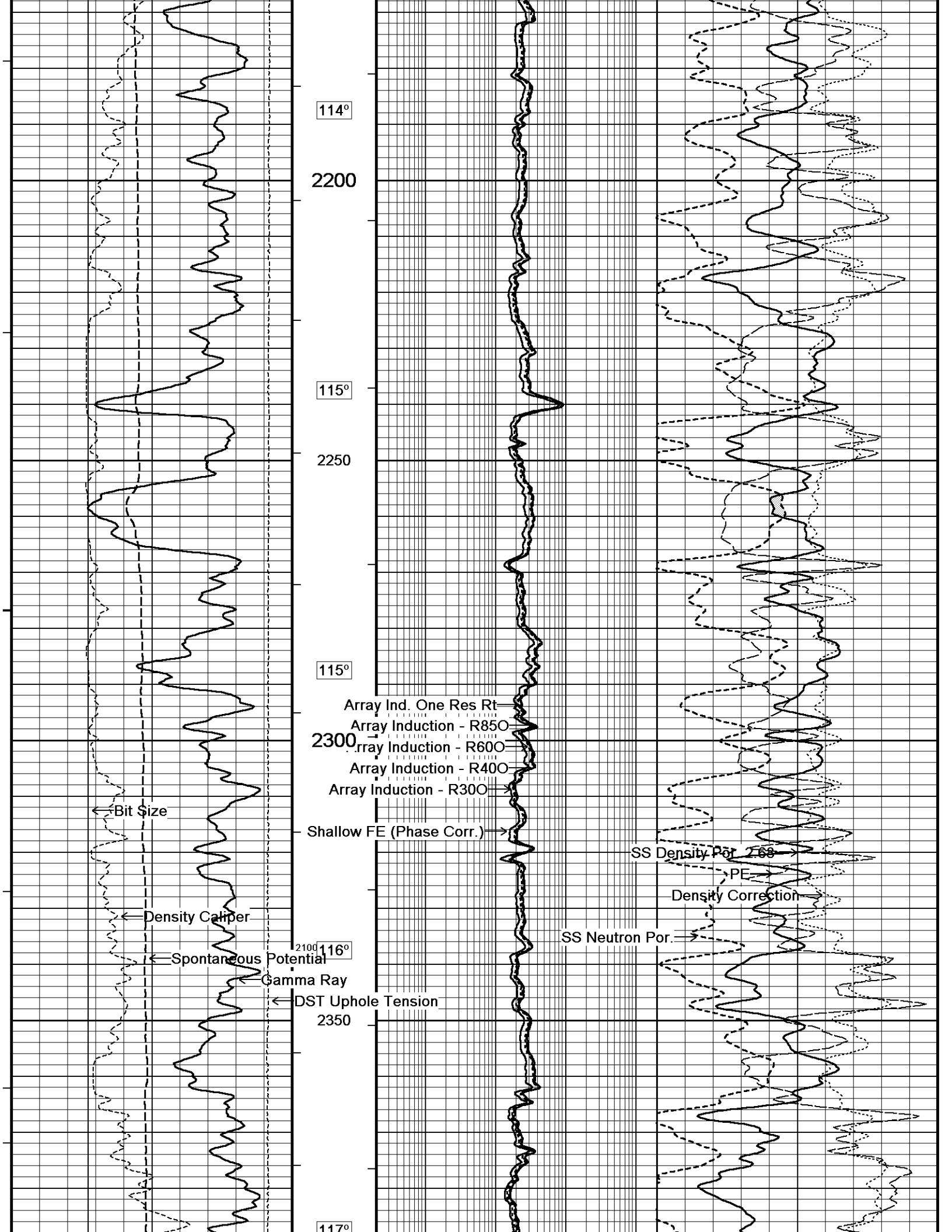
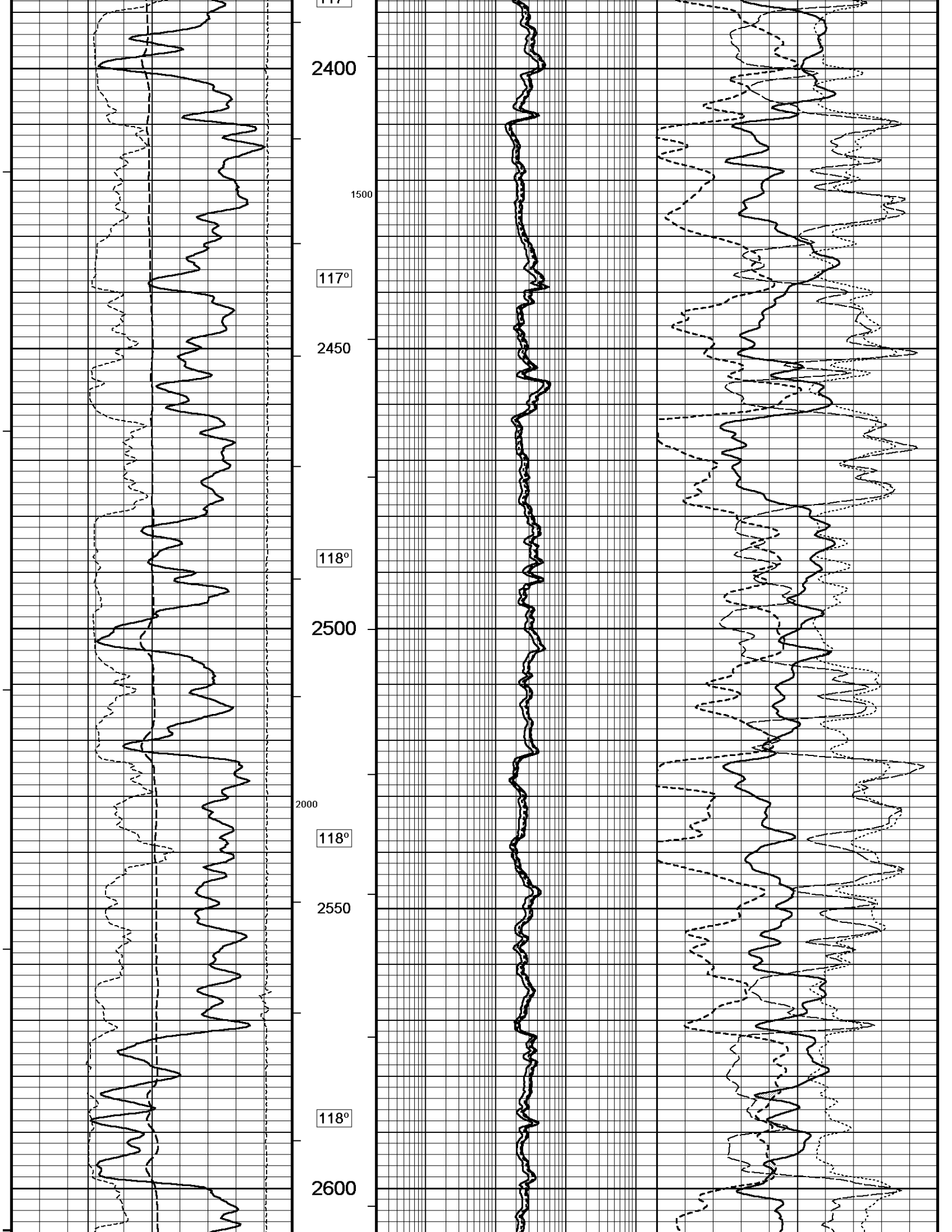
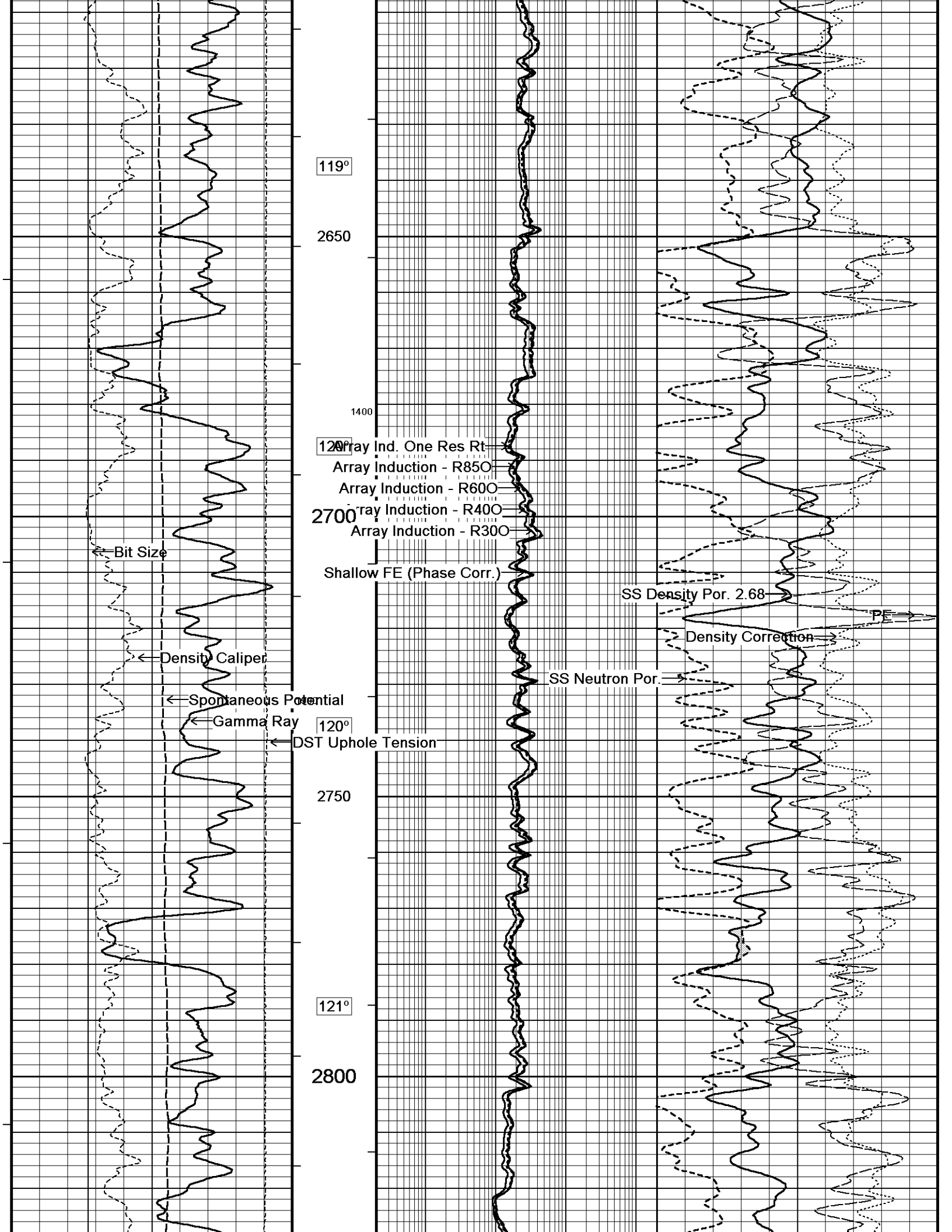
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
108°
Density Caliper
SS Neutron Por.
1550
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2500
108°
1600
109°
1650
110°
1700
1800

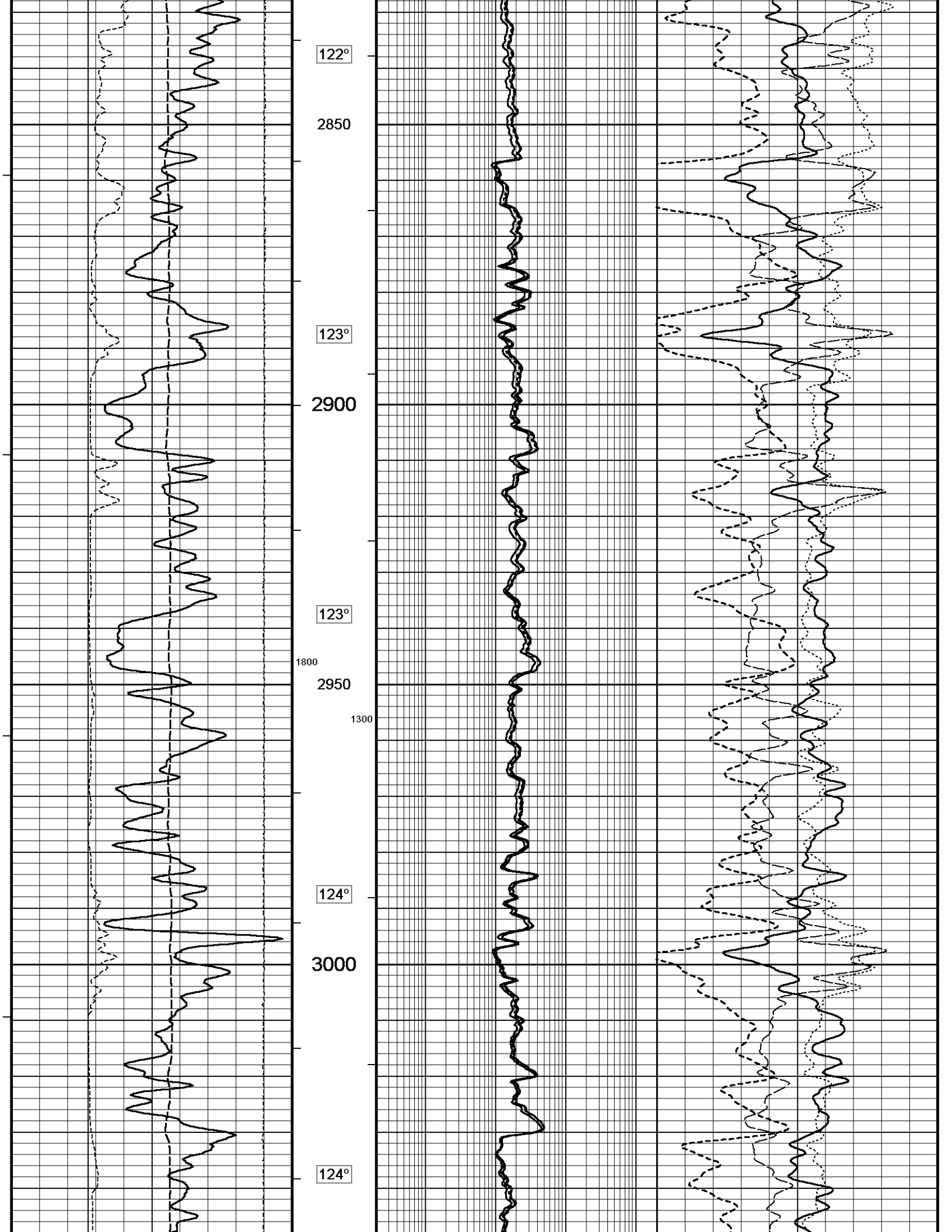

110°
1750
2400
111°
1800
111°
1850
112°
1900
112°
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Shallow FE (Phase Corr.)
Bit Size
Density Caliper
Spontaneous Potential
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.

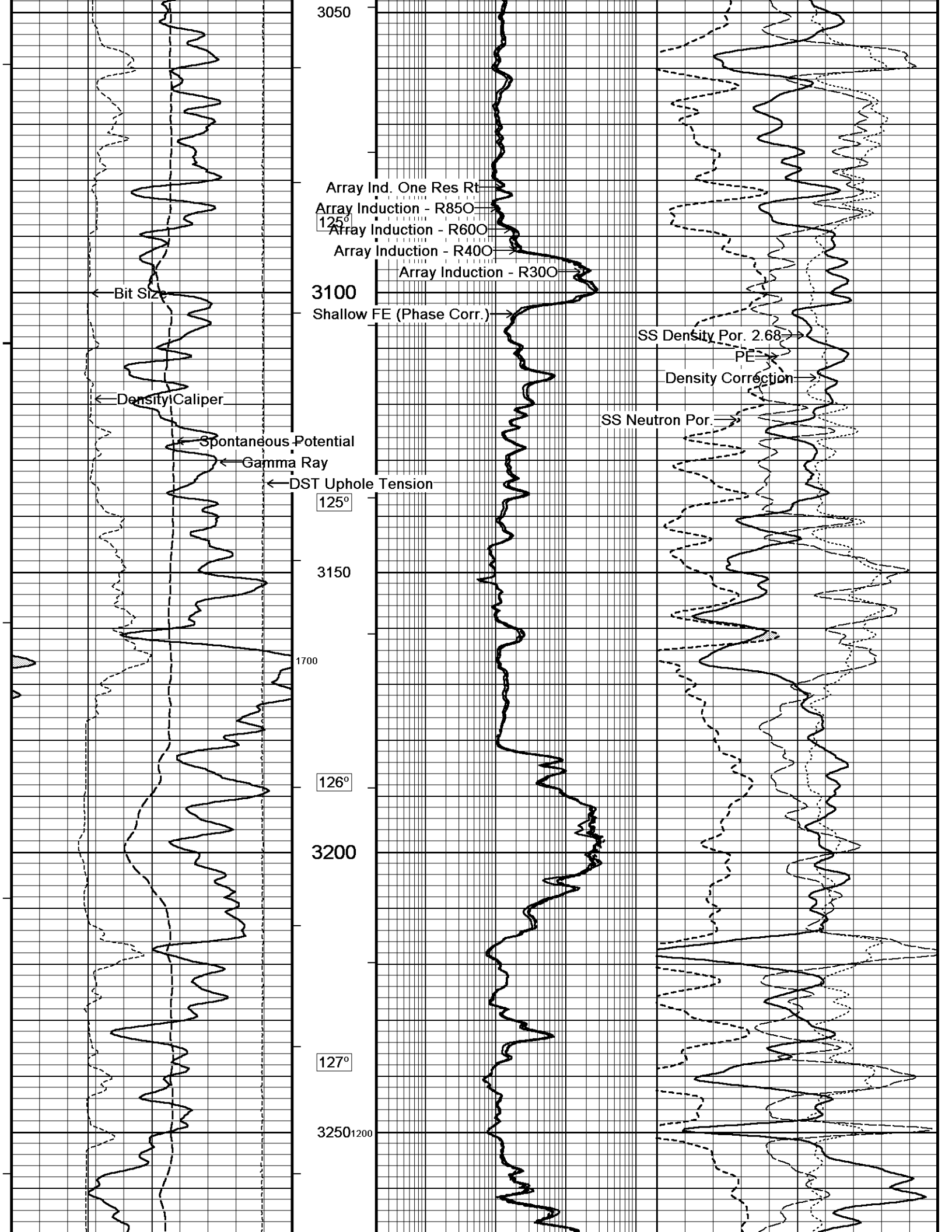

Gamma Ray
DST Uphole Tension
1950
2300
113°
2000
113°
2050
114°
2100
2200
114°
2150
1600

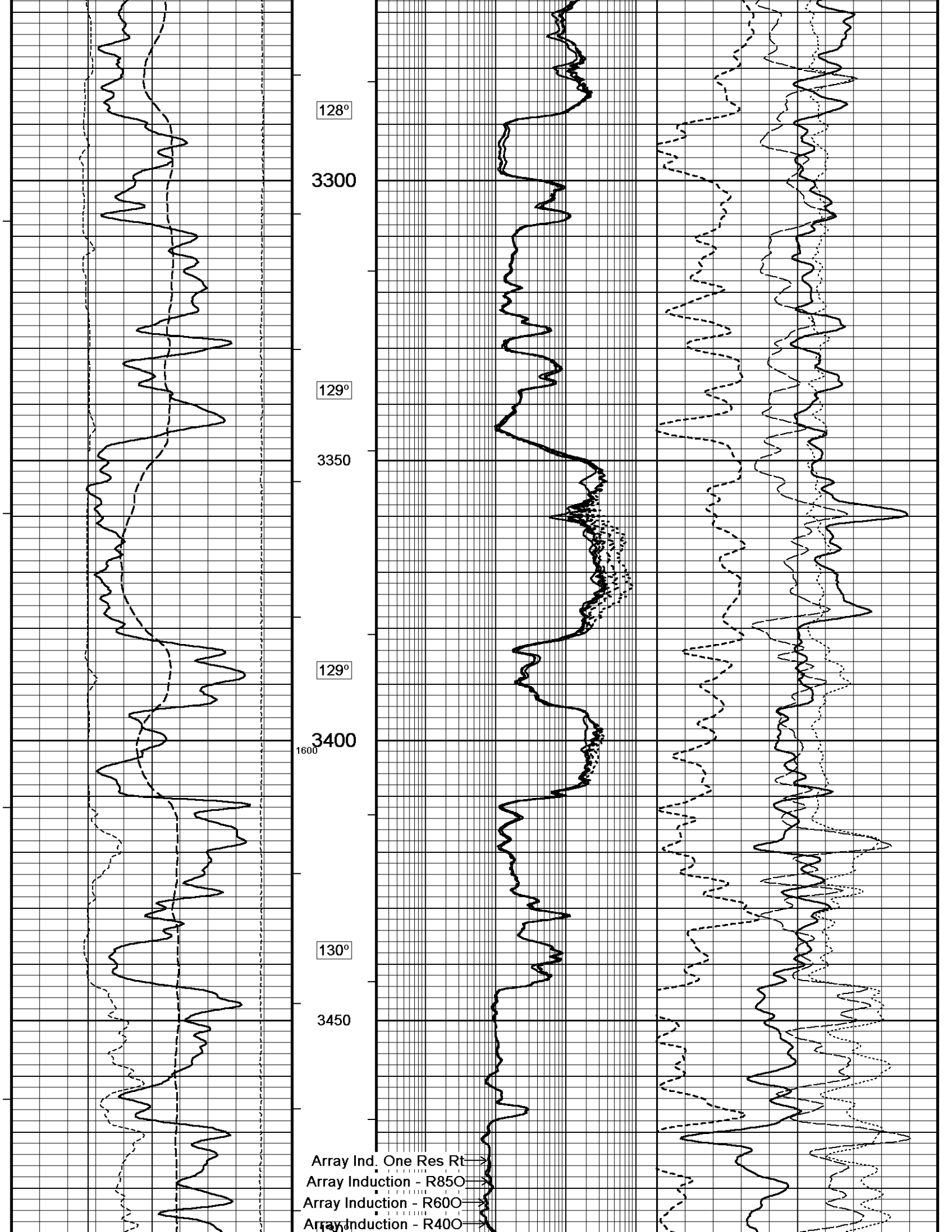

114°
2200
115°
2250
115°
Array Ind. One Res Rt
Array Induction - R85O
2300
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Shallow FE (Phase Corr.)
SS Density Por 2.68
PE
Density Correction
Density Caliper
SS Neutron Por.
2100
116°
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2350
117°

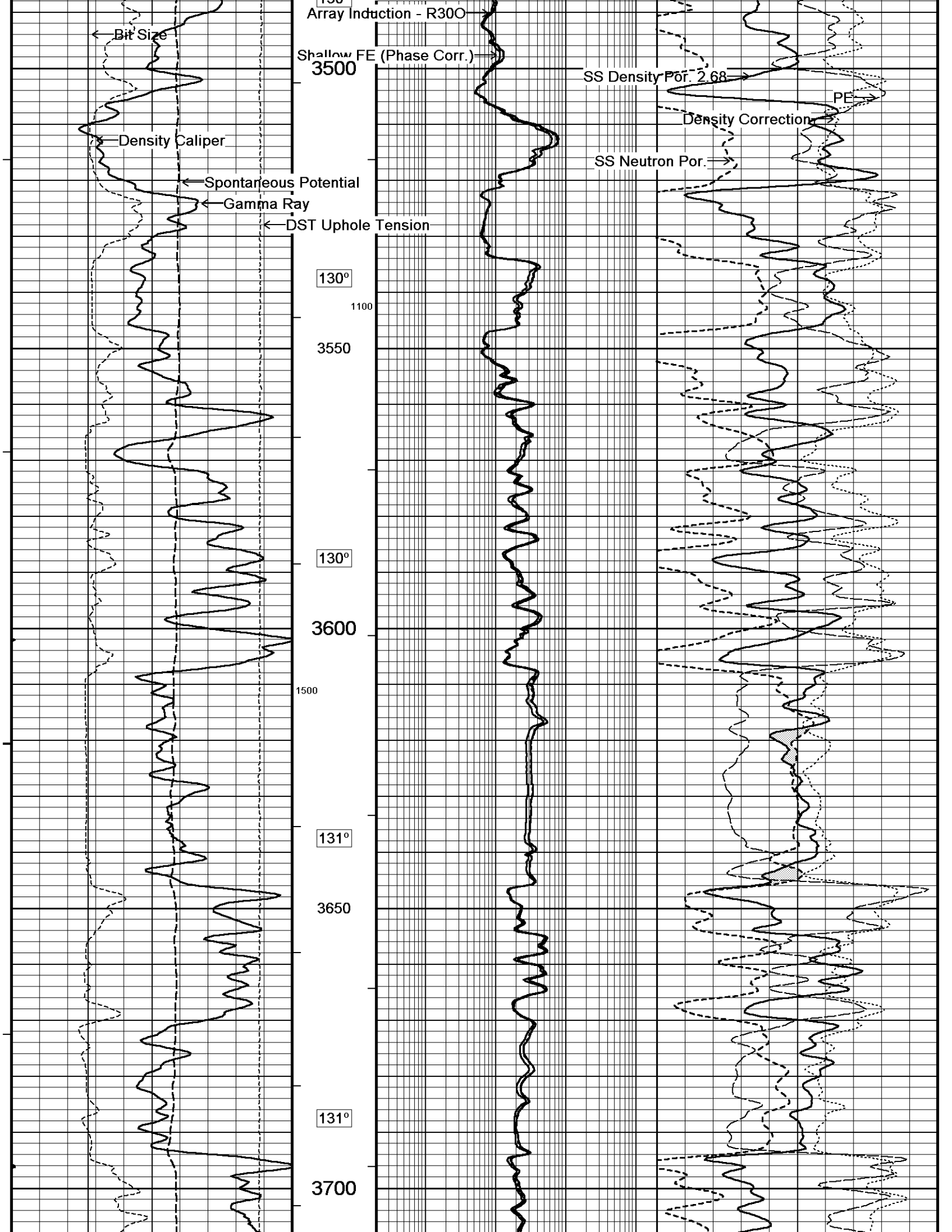

2400
1500
117°
2450
118°
2500
2000
118°
2550
118°
2600

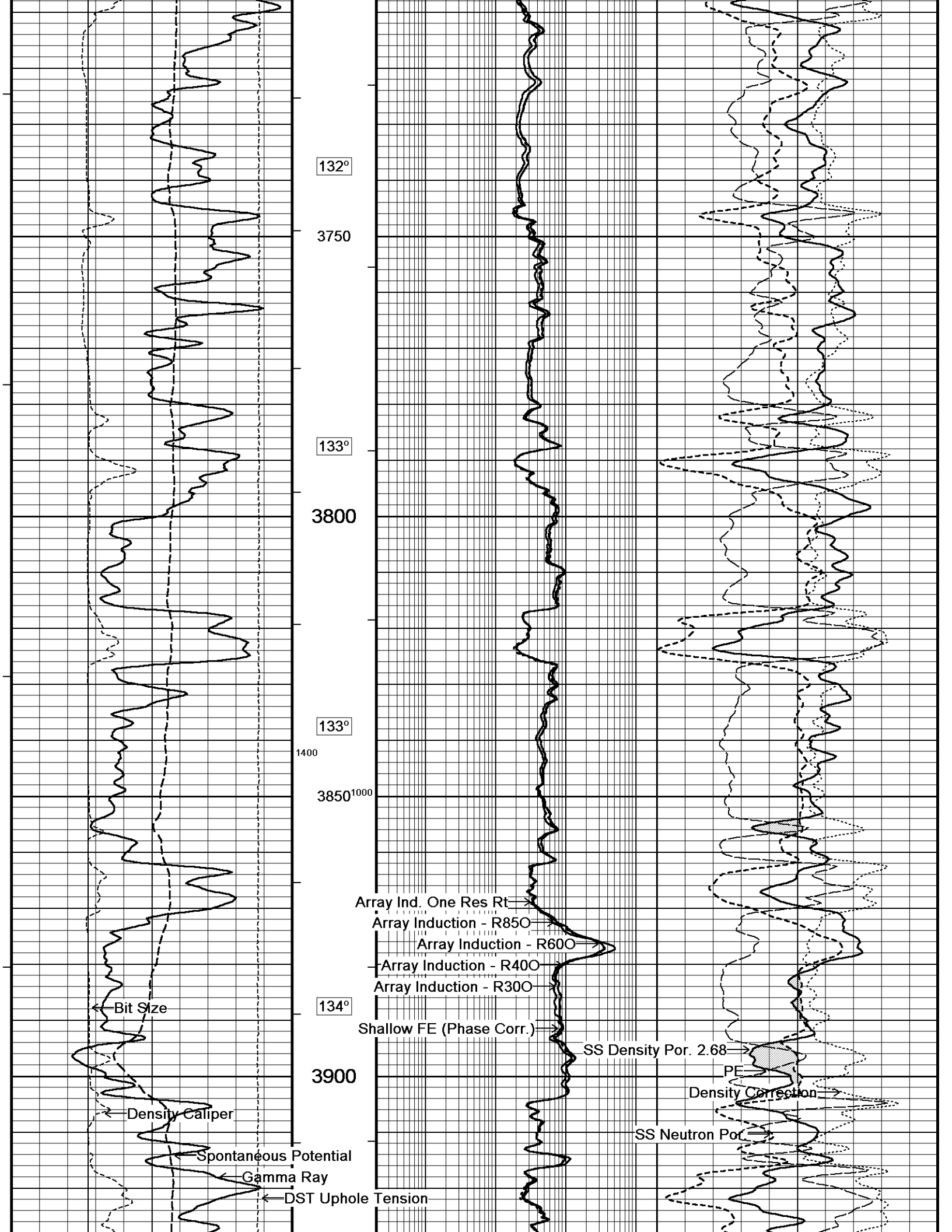

119°
2650
1400
120°
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
2700
Array Induction - R30O
Bit Size
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
SS Neutron Por.
Spontaneous Potential
Gamma Ray
120°
DST Uphole Tension
2750
121°
2800

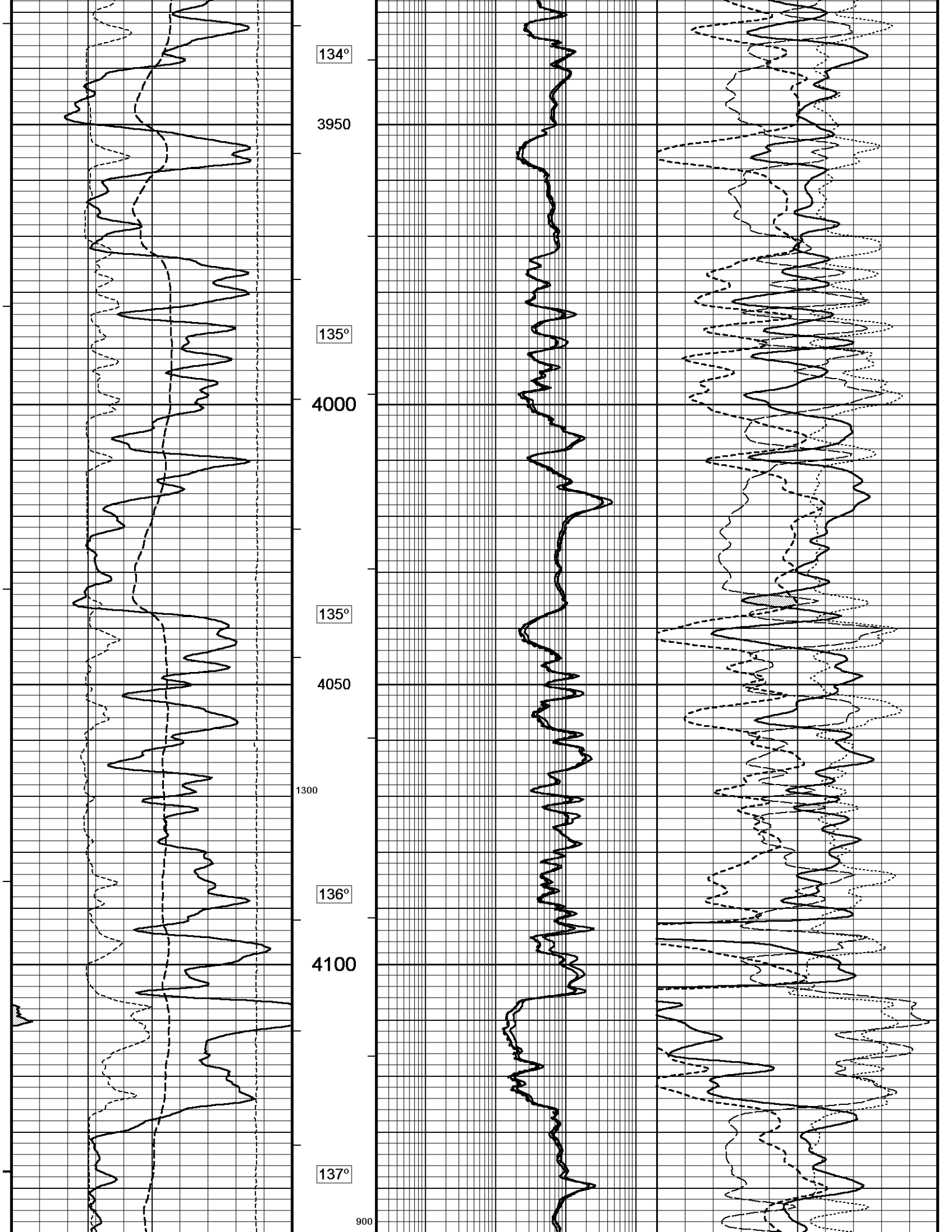

122°
2850
123°
2900
123°
1800
2950
1300
124°
3000
124°

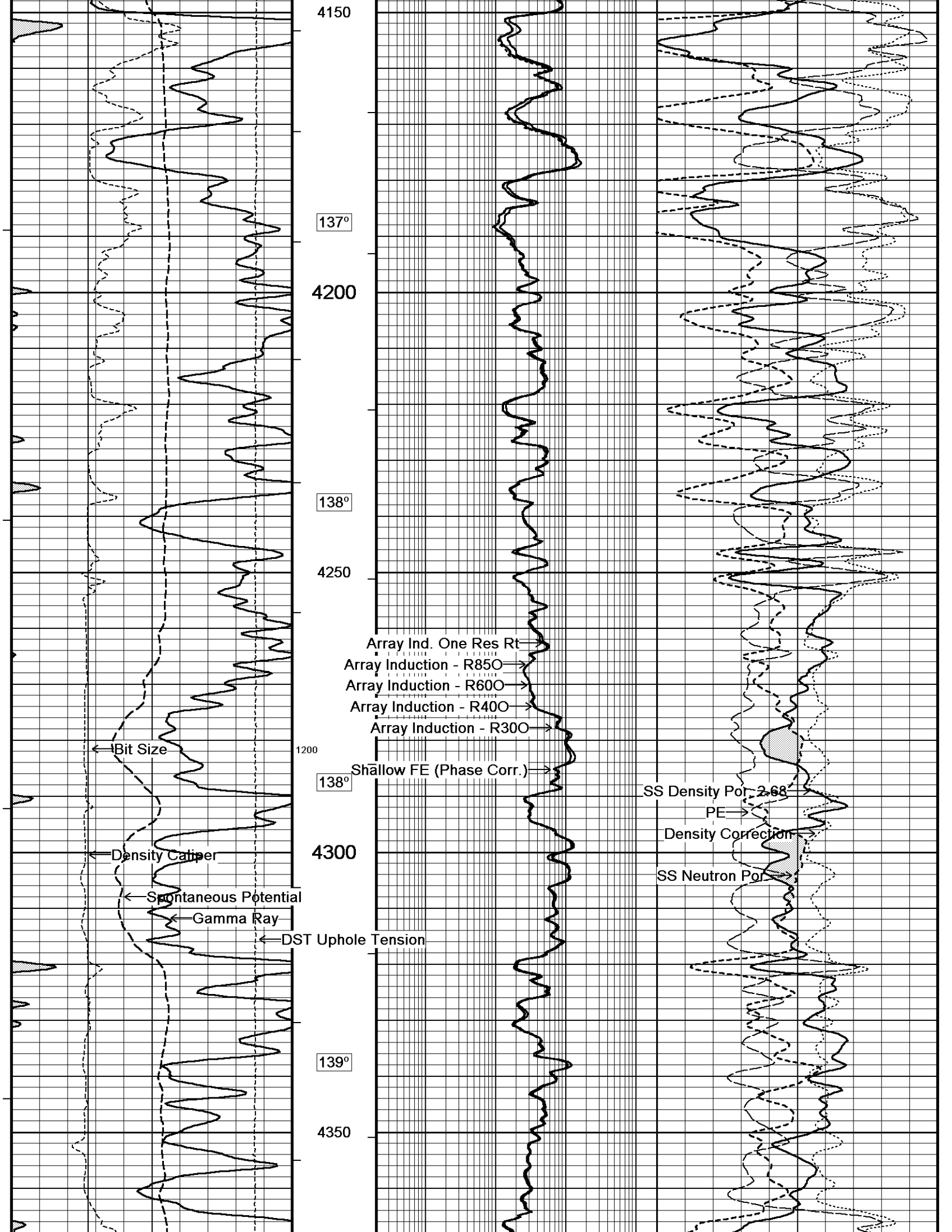

3050
Array Ind. One Res Rt
Array Induction - R85O
125°
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
3100
Bit Size
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
SS Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
125°
3150
1700
126°
3200
127°
3250
1200

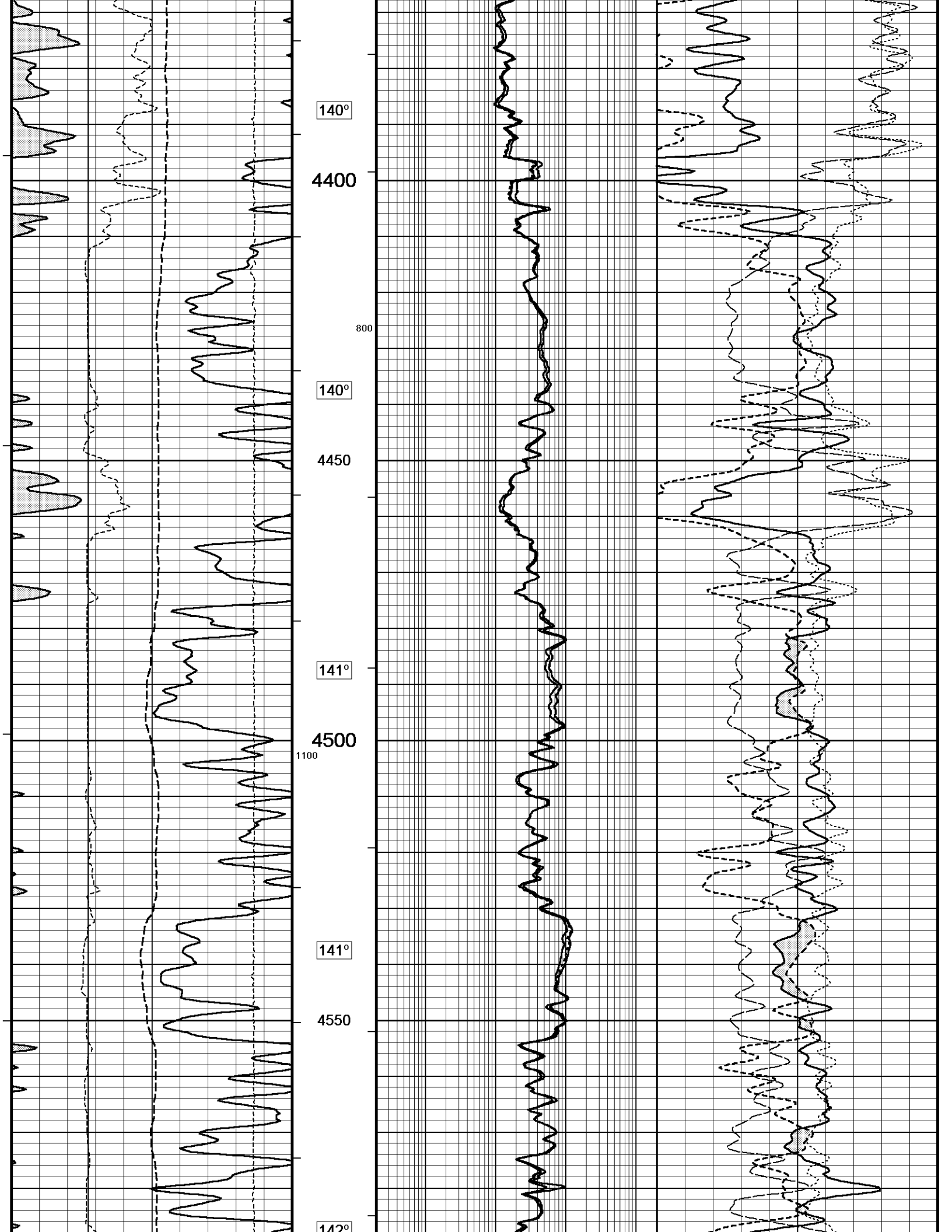

128°
3300
129°
3350
129°
3400
1600
130°
3450
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O

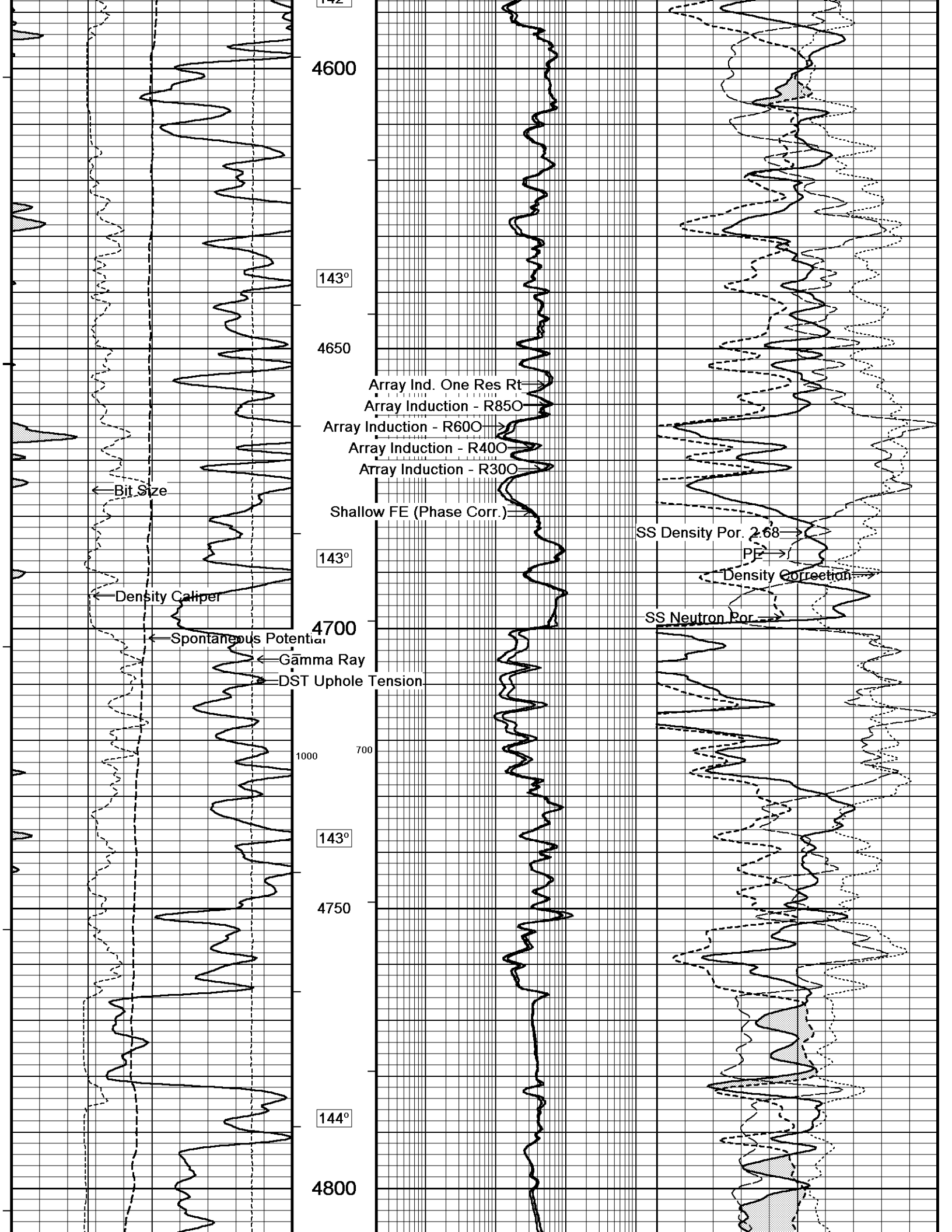

Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Induction - R30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.
3500
3550
3600
3650
3700
130°
130°
131°
131°
1100
1500

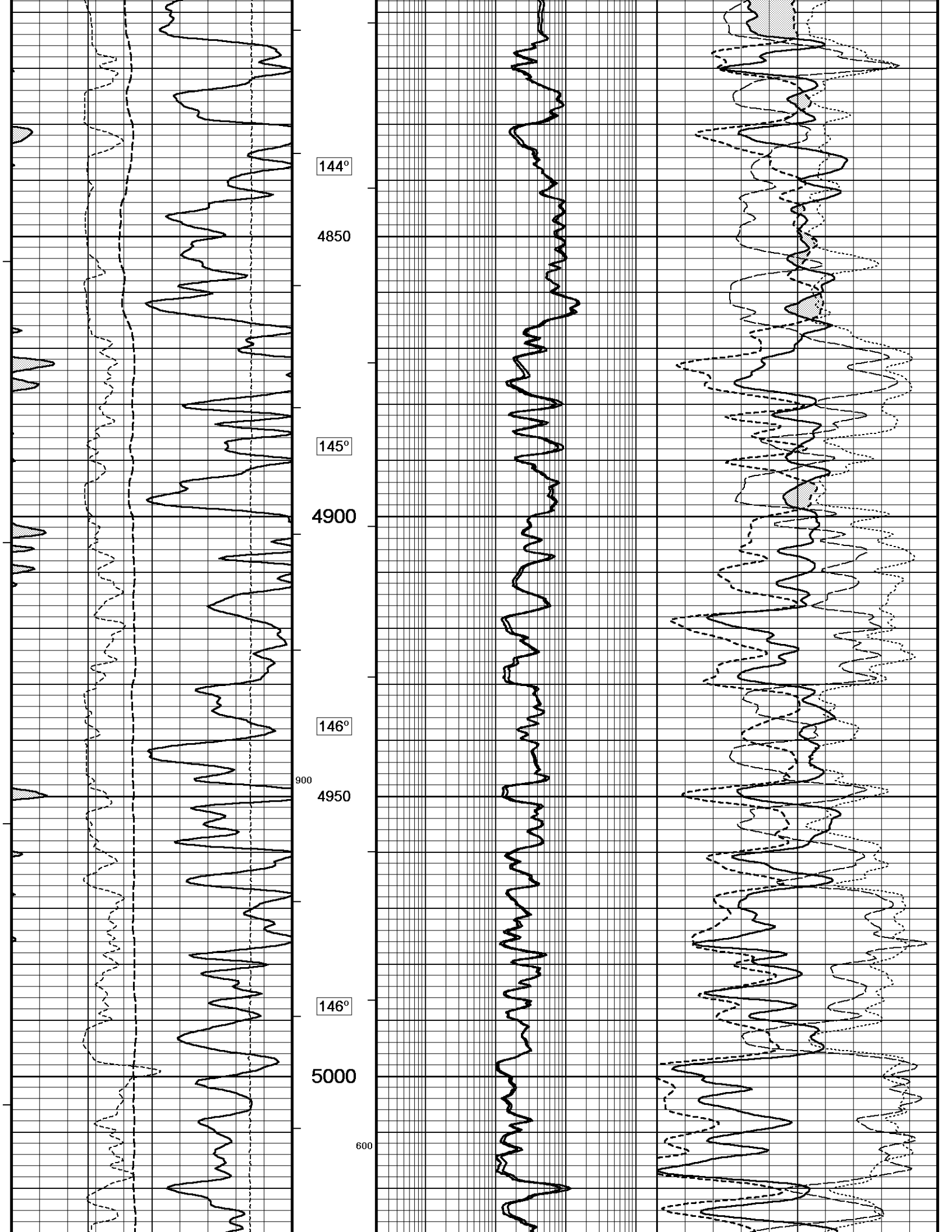

132°
3750
133°
3800
133°
1400
3850
1000
134°
3900
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por

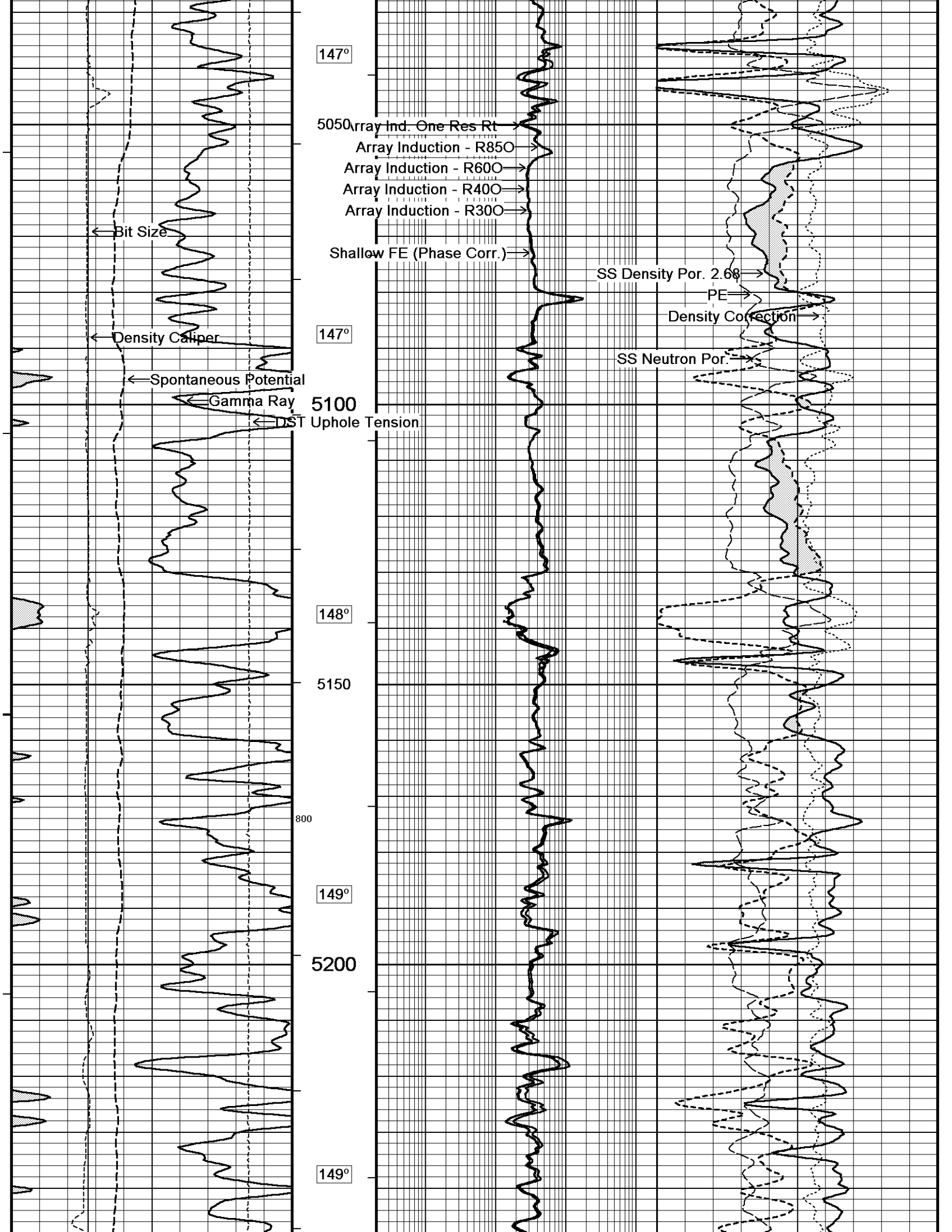

134°
3950
135°
4000
135°
4050
1300
136°
4100
137°
900

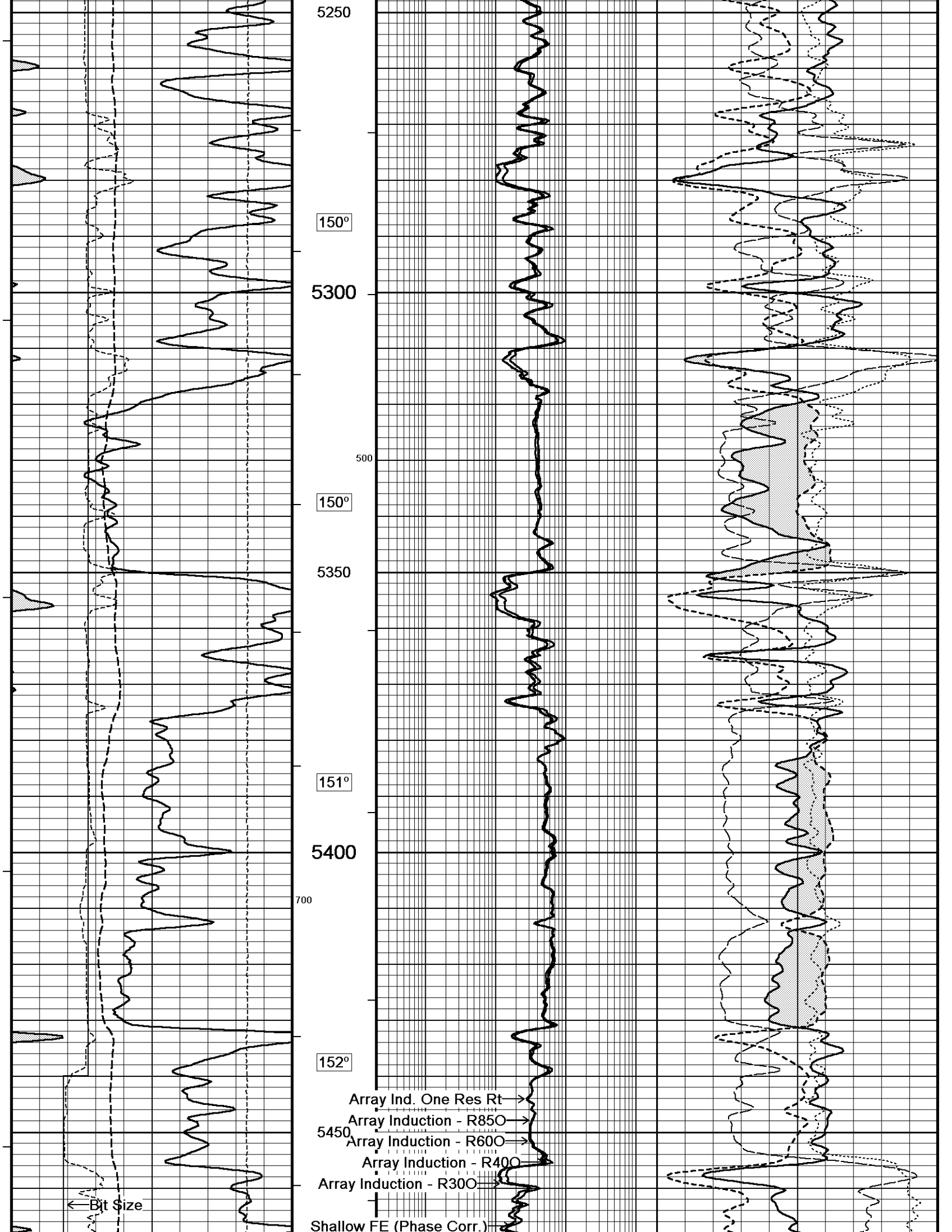

4150
137°
4200
138°
4250
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
1200
Shallow FE (Phase Corr.)
138°
SS Density Por - 2.68
PE
Density Correction
4300
Density Caliper
SS Neutron Por
Spontaneous Potential
Gamma Ray
DST Uphole Tension
139°
4350

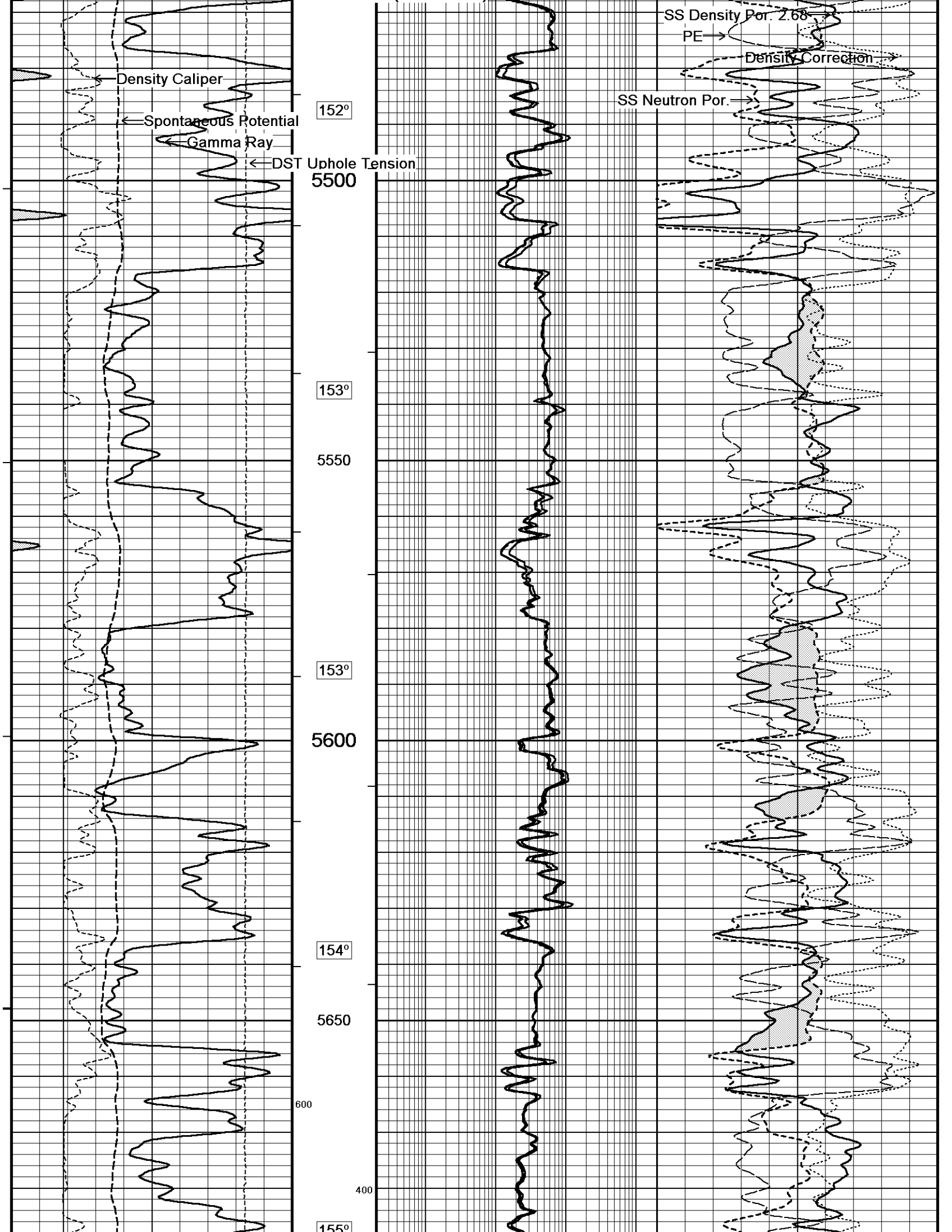

140°
4400
800
140°
4450
141°
4500
1100
141°
4550
142°


4600
143°
4650
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
143°
Density Caliper
SS Neutron Por.
4700
Spontaneous Potential
Gamma Ray
DST Uphole Tension
1000
700
143°
4750
144°
4800


144°
4850
145°
4900
146°
900
4950
146°
5000
600


147°
5050
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
147°
Density Caliper
SS Neutron Por.
Spontaneous Potential
Gamma Ray
5100
DST Uphole Tension
148°
5150
800
149°
5200
149°


5250
150°
5300
500
150°
5350
151°
5400
700
152°
5450
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Shallow FE (Phase Corr.)
Bit Size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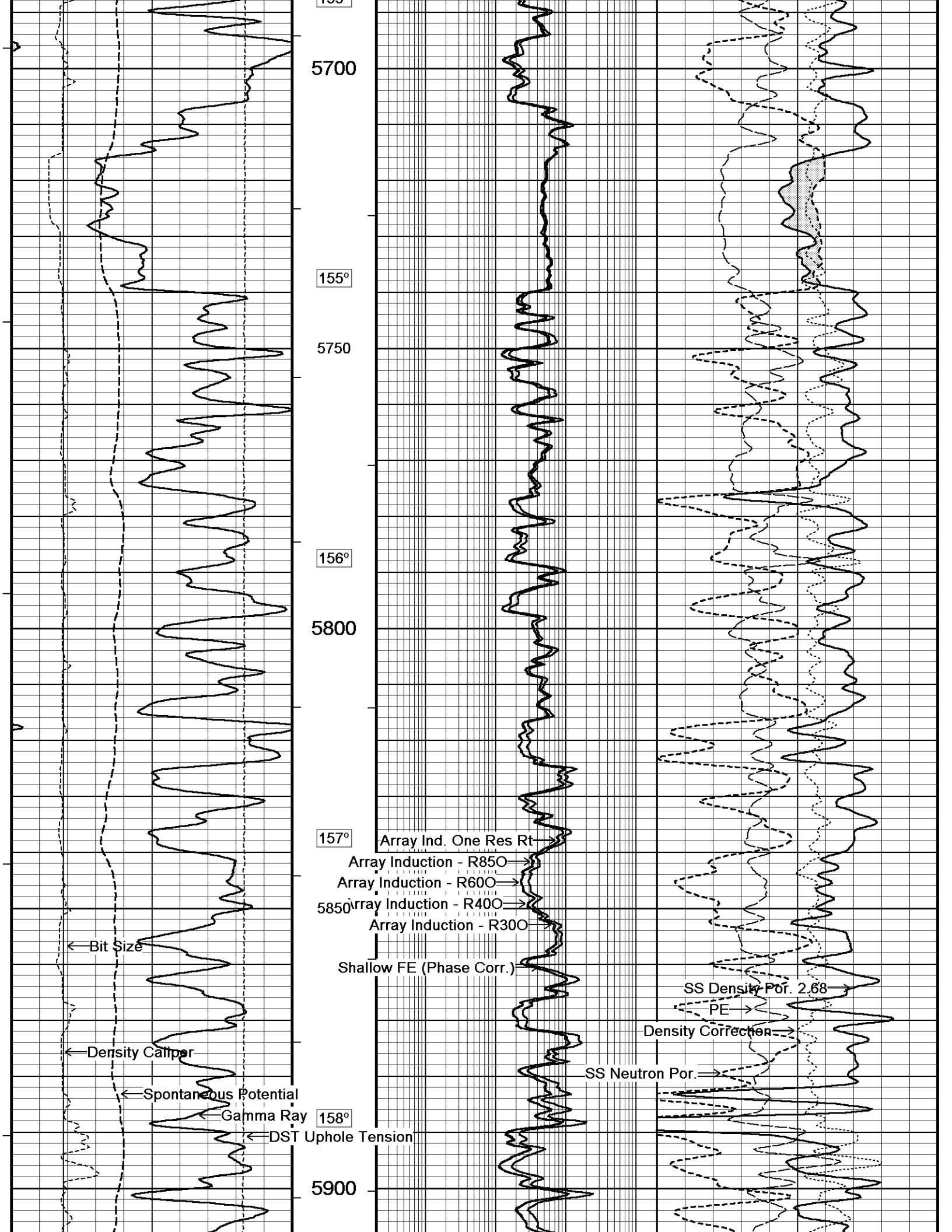
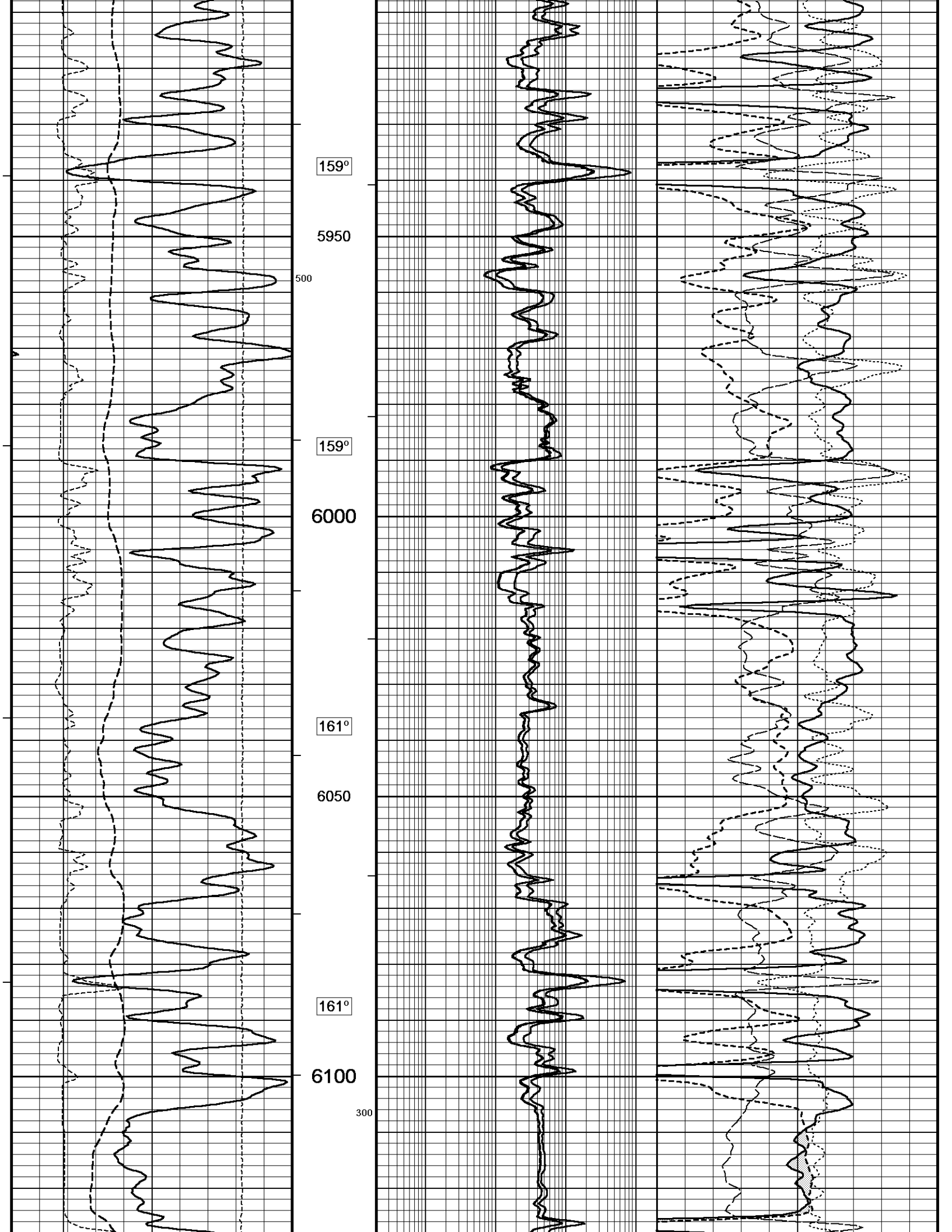
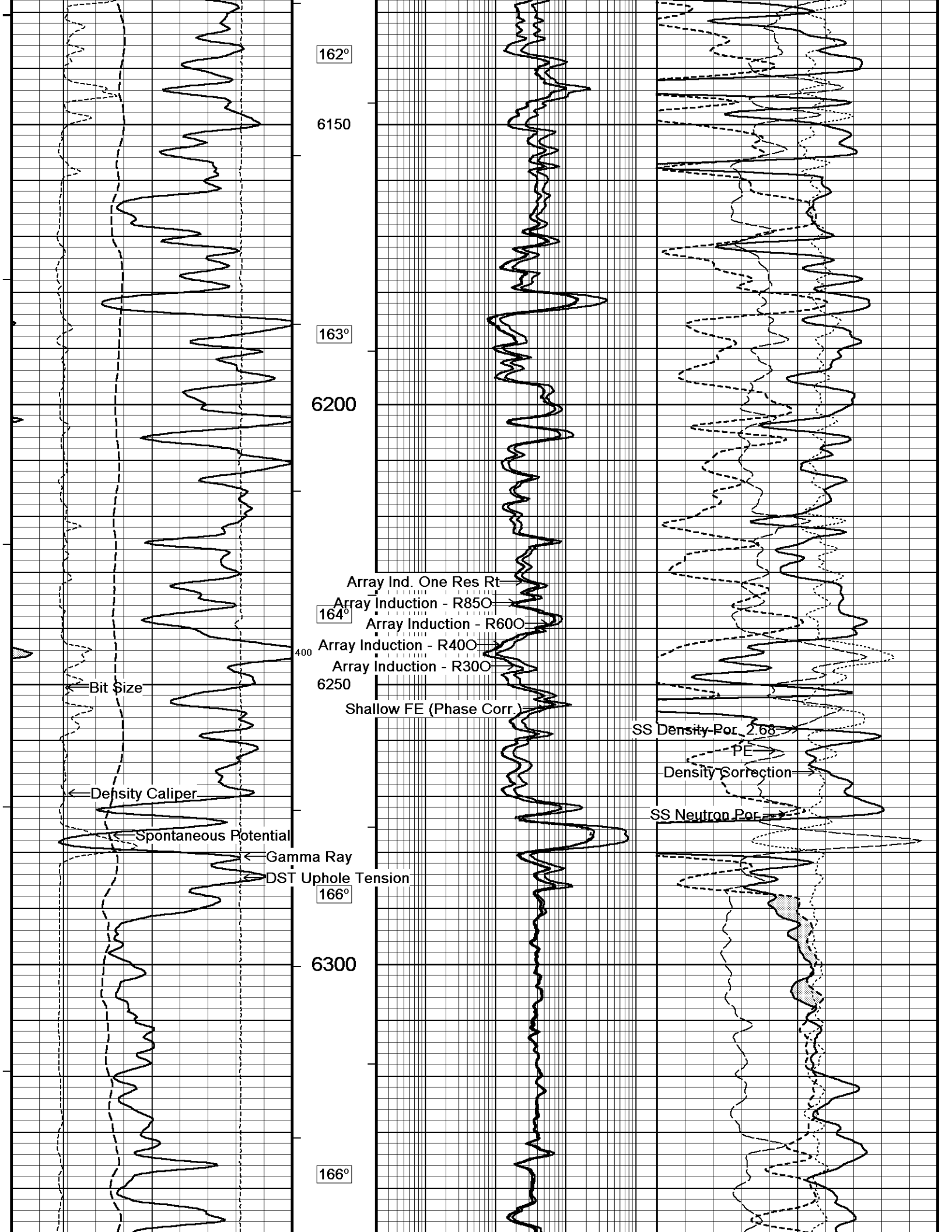
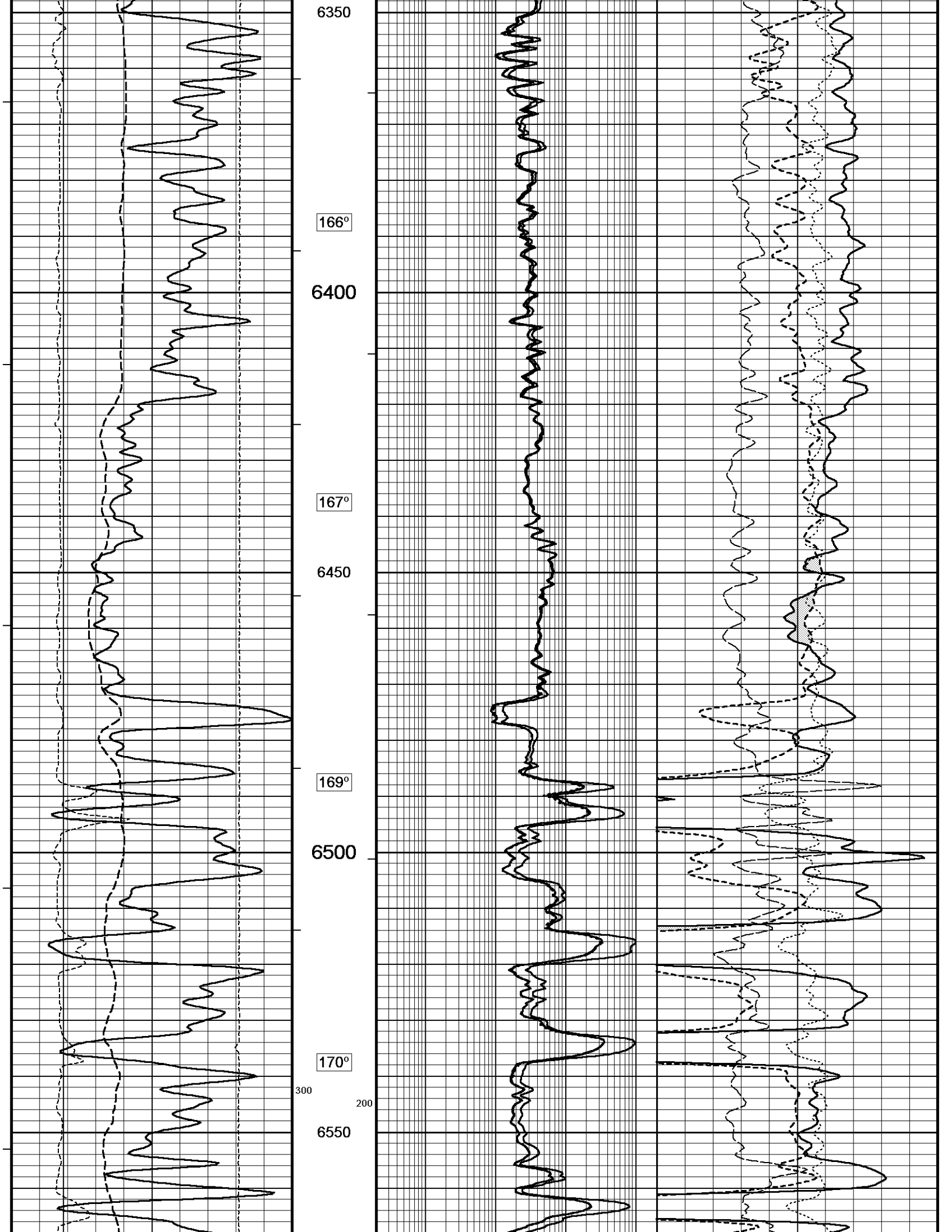
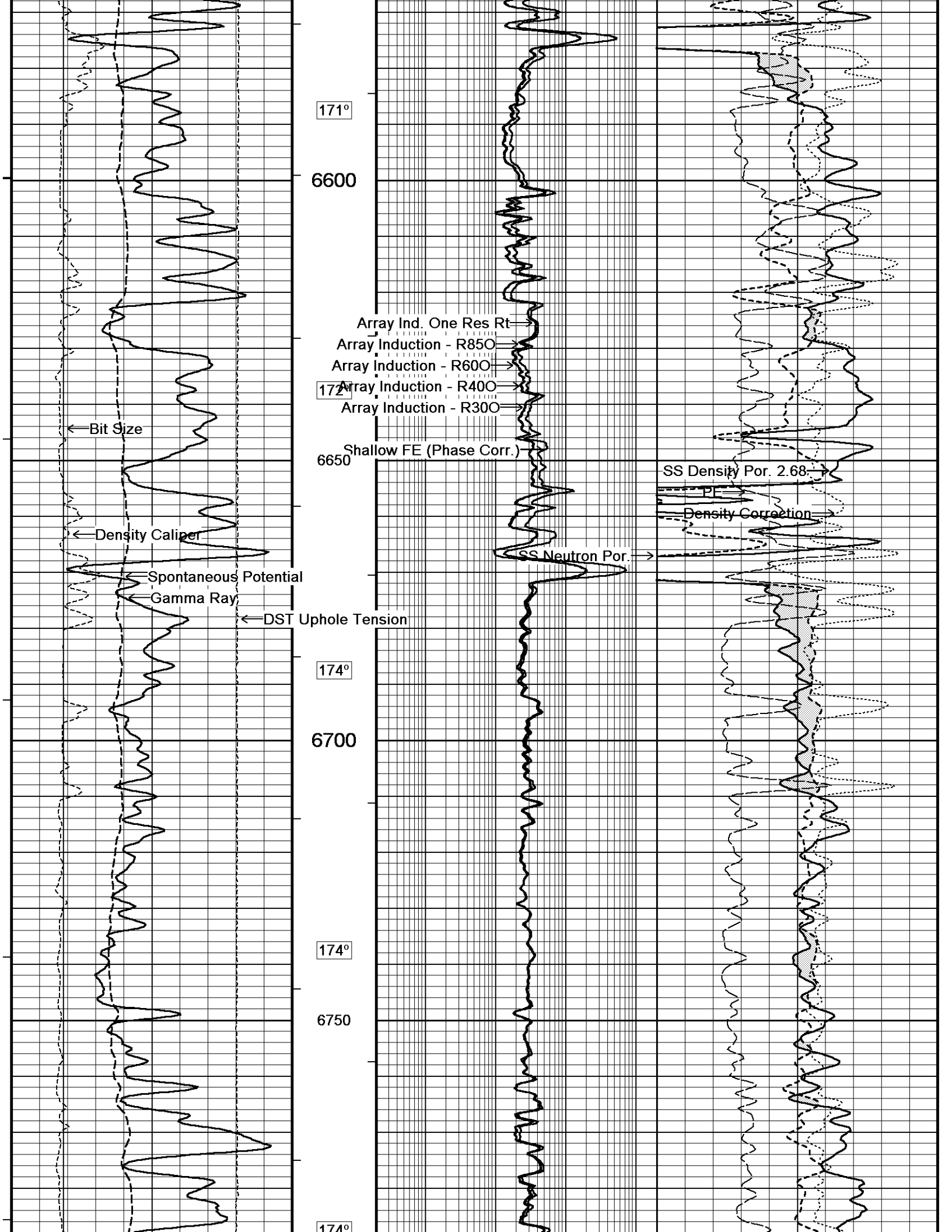
PE
Density Correction
SS Neutron Por.
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
152°
5500
153°
5550
153°
5600
154°
5650
600
400
155°

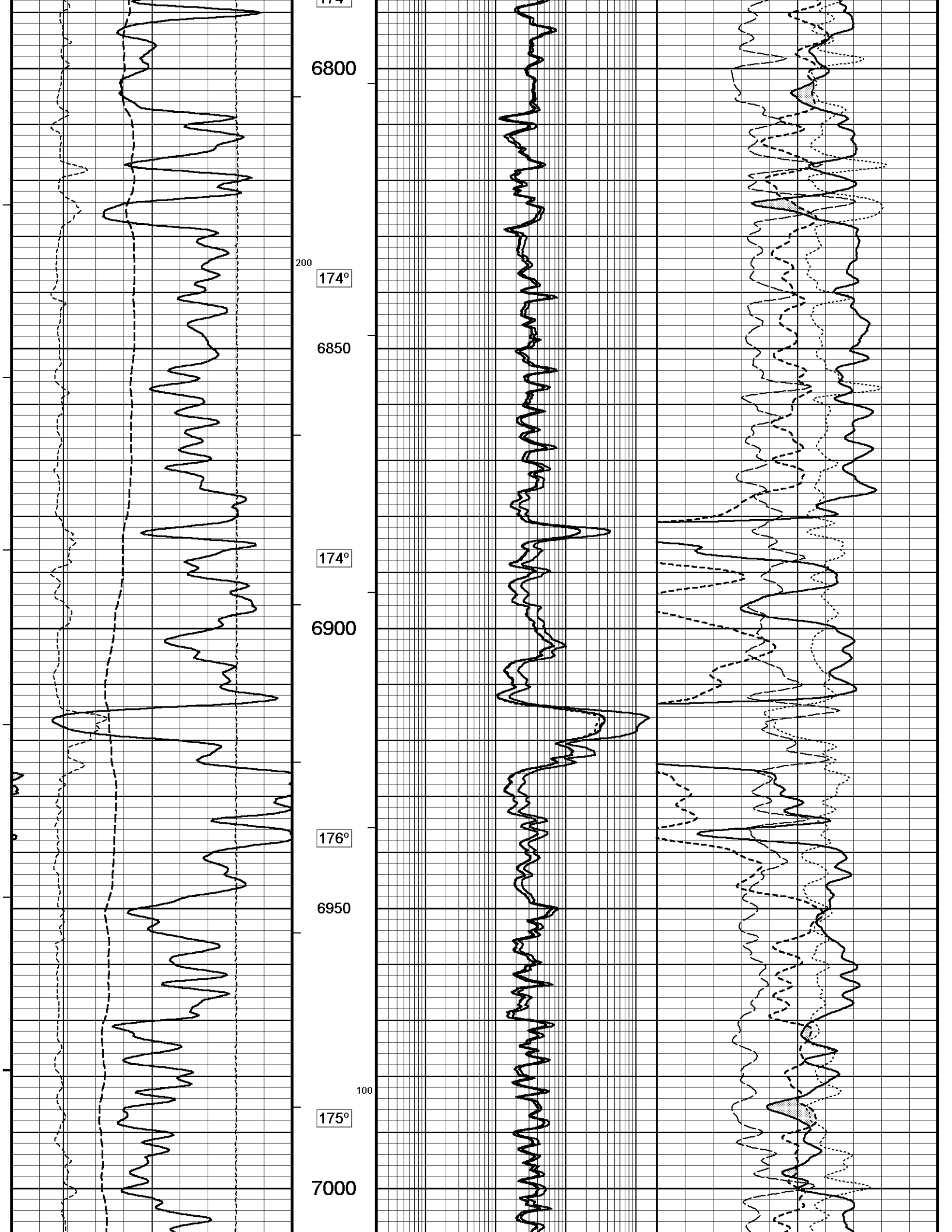

5700
155°
5750
156°
5800
157°
5850
158°
5900
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.

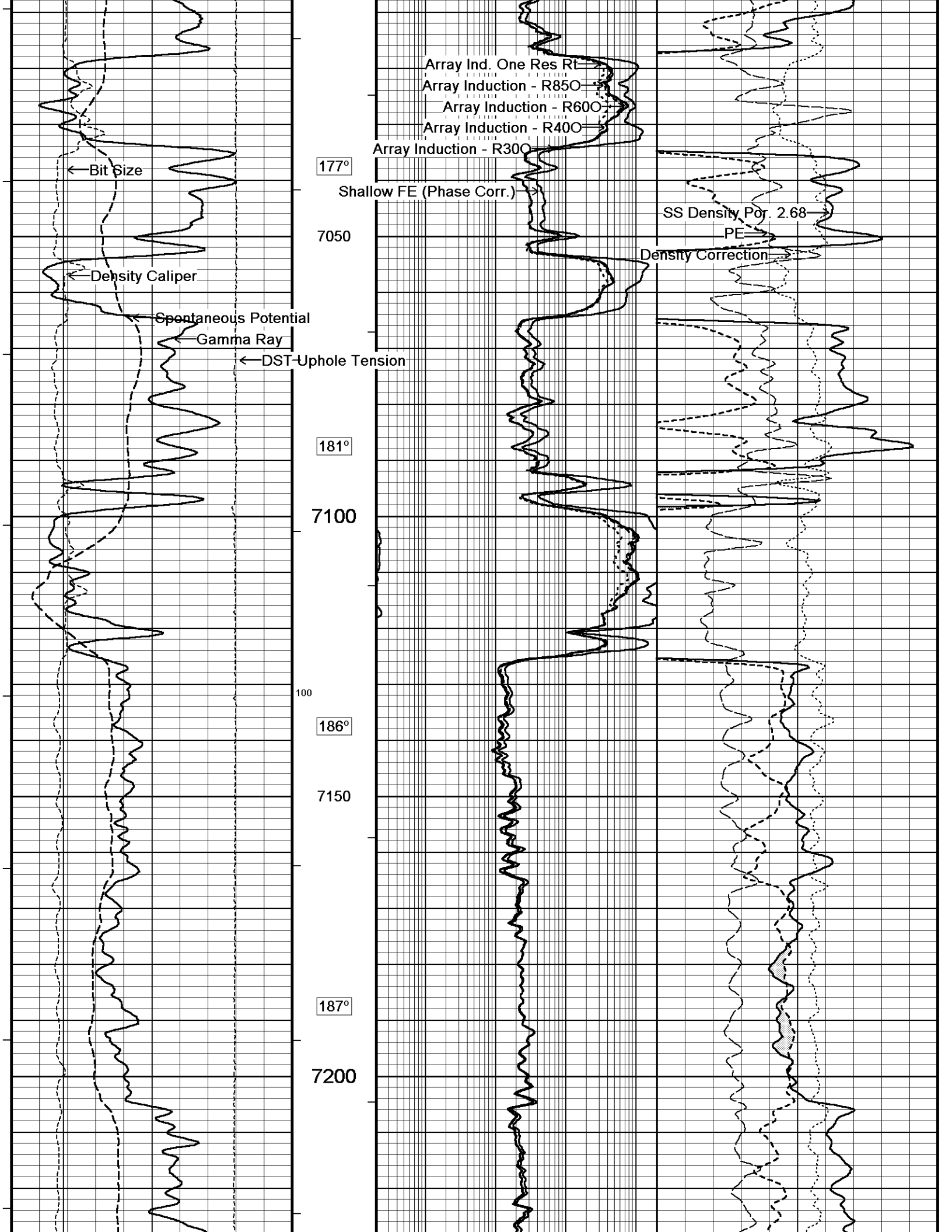

159°
5950
500
159°
6000
161°
6050
161°
6100
300


162°
6150
163°
6200
164°
400
6250
166°
6300
166°
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Shallow FE (Phase Corr.)
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
SS Density Por, 2.68
PE
Density Correction
SS Neutron Por


6350
166°
6400
167°
6450
169°
6500
170°
300
200
6550


171°
6600
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
172°
Array Induction - R40O
Array Induction - R30O
Bit Size
Shallow FE (Phase Corr.)
6650
SS Density Por. 2.68
PE
Density Correction
Density Caliper
SS Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
174°
6700
174°
6750
174°


6800
200
174°
6850
174°
6900
176°
6950
100
175°
7000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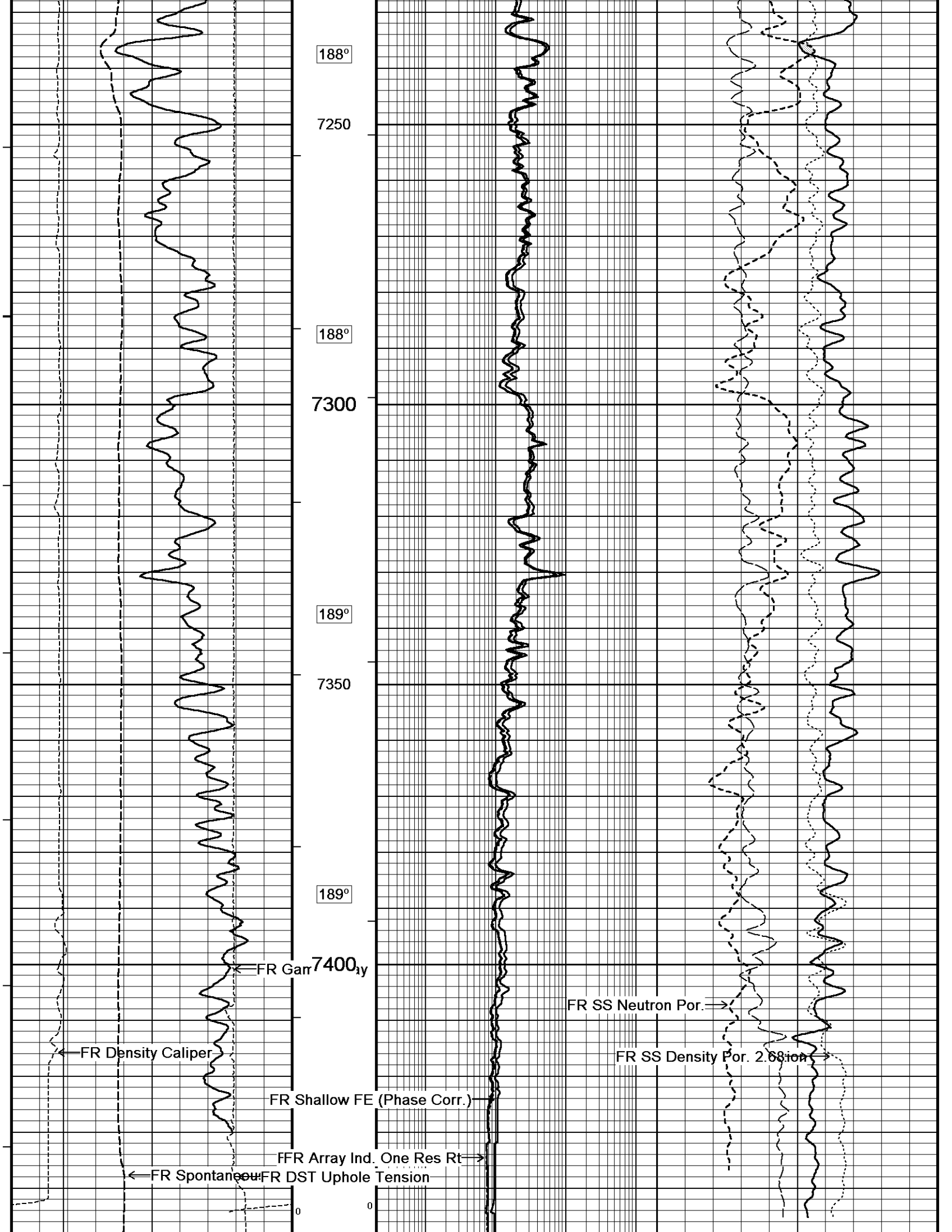
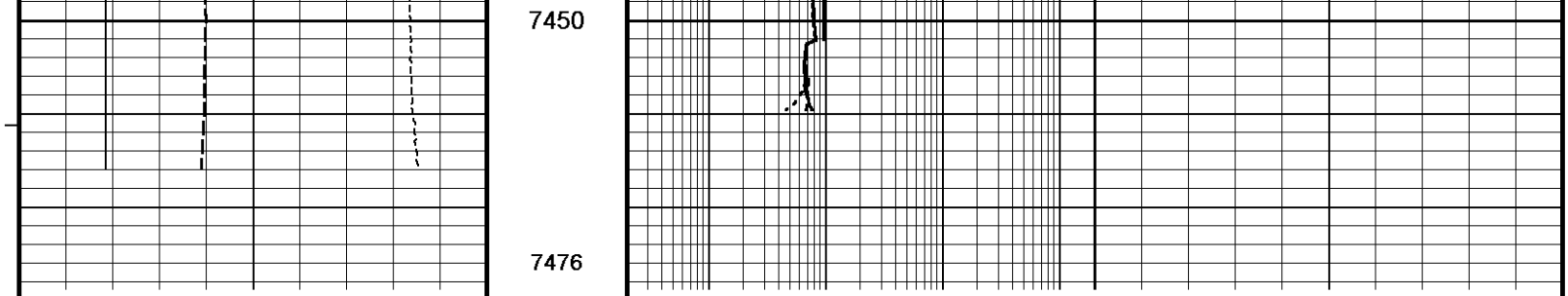
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
177°
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
7050
Density Correction
Density Caliper
Spontaneous Potential
Gamma Ray
DST-Uphole Tension
181°
7100
100
186°
7150
187°
7200


188°
7250
188°
7300
189°
7350
189°
7400
FR Gamma Ray
FR Density Caliper
FR Spontaneous
FR Shallow FE (Phase Corr.)
FFR Array Ind. One Res Rt
FR DST Uphole Tension
FR SS Neutron Por.
FR SS Density Por. 2.68ion
0
0



Timing Marks
every 60.0 sec

Depth
in
Feet

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

SS Neutron Por.(NPRS)
percent
30 10 -10

DST Uphole Tension(SMTU)
pounds
10000 5000 0

Array Induction - R30O(R30O)
ohm metres
0.20 2000
1 10 100 1000

Density Correction(DCOR)
grams/cc
-0.25 0 0.25

Borehole
Temp in
deg F

Gamma Ray(GRGC)
API
0 75 150
150 225 300

Array Induction - R40O(R40O)
ohm metres
0.20 2000
1 10 100 1000

PE(PDPE)
barns/electron
0 5 10

HVI
every
10 cu ft

Spontaneous Potential(SPCG)
millivolts
– → | 20 | ← +

Array Induction - R60O(R60O)
ohm metres
0.20 2000
1 10 100 1000

SS Density Por. 2.68(DPOR)
percent
30 10 -10

Annular
Integral
every
10 cu ft

Density Caliper(CLDC)
inches
6 11 16

Array Induction - R85O(R85O)
ohm metres
0.20 2000
1 10 100 1000

Bit Size(BIT)
inches
6 11 16

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

Replay
Scale
1:240

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 26-JAN-2011 03:36
Filename: C:\Documents and Settings\e145895\Desktop\41b-29-691\MAIN-Reprocessed.dta
Recorded on 25-JAN-2011 20:34
System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198

5 INCH MAIN LOG

OVERLAY

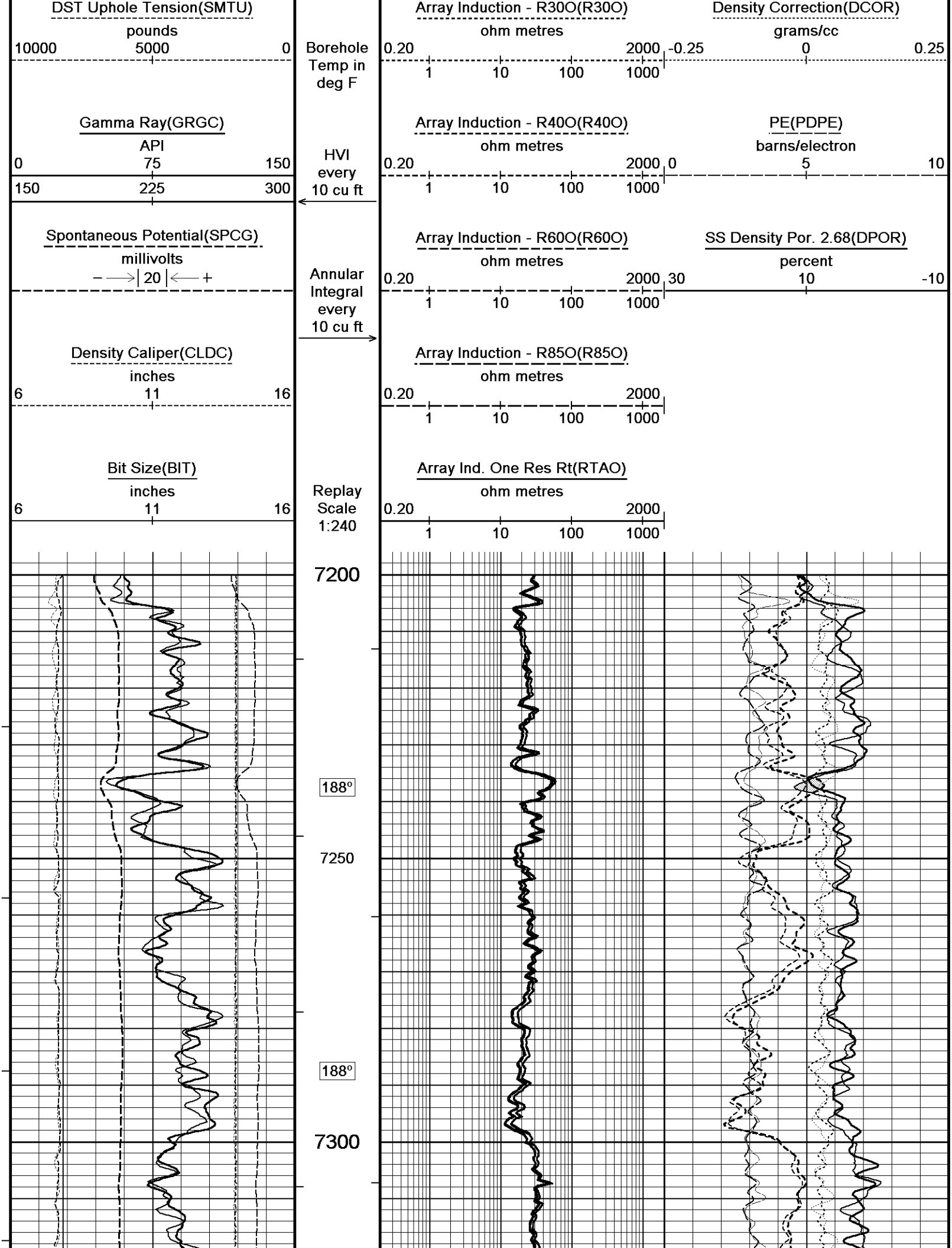
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 26-JAN-2011 03:36
Filename: C:\Documents and Settings\e145895\Desktop\41b-29-691\MAIN-Reprocessed.dta
Recorded on 25-JAN-2011 20:34
Filename: C:\Documents and Settings\e145895\Desktop\41b-29-691\REPEAT-Reprocessed.dta
System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198

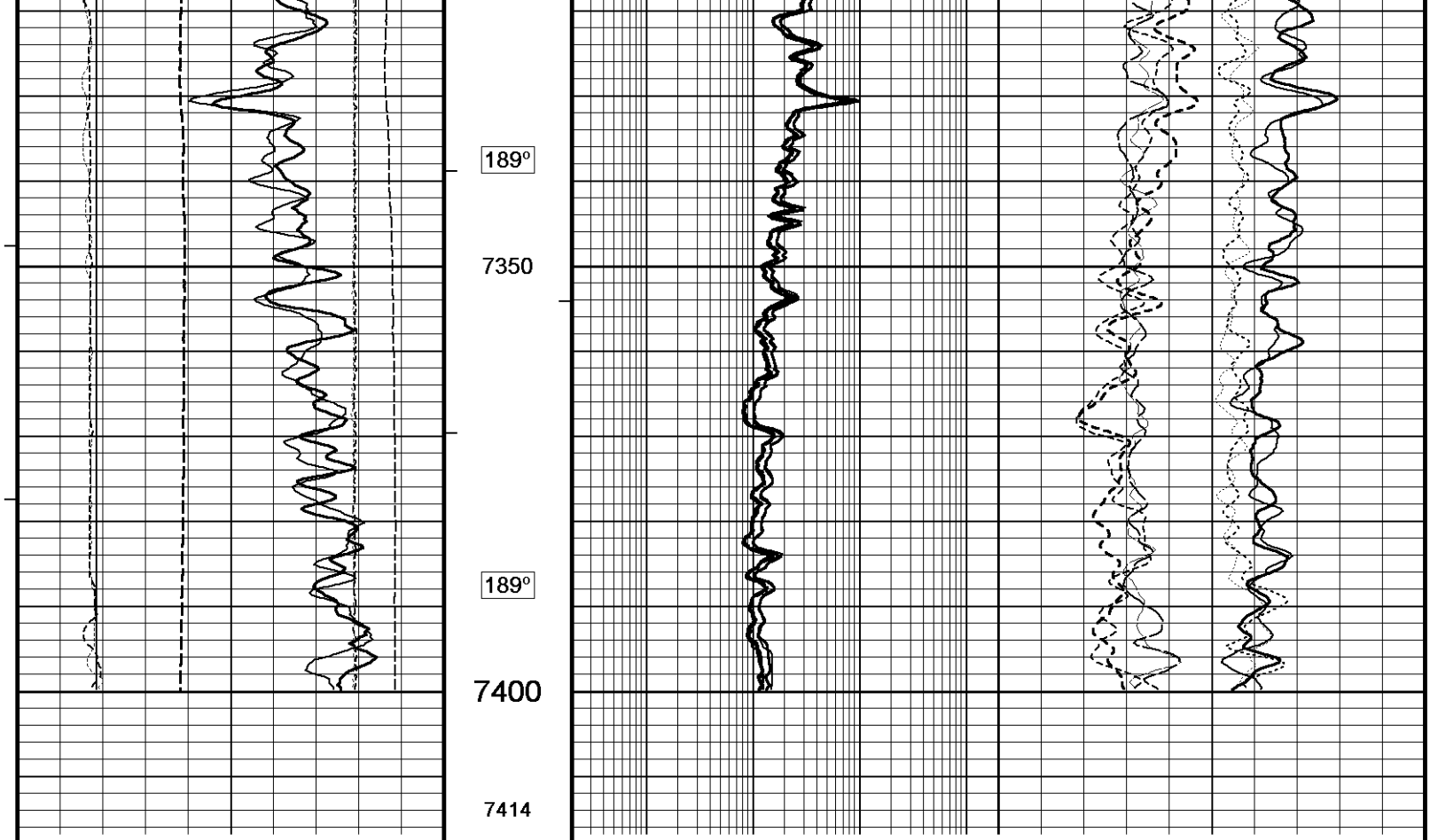
Timing Marks
every 60.0 sec

Depth
in
Feet

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

SS Neutron Por.(NPRS)
percent
30 10 -10


DST Uphole Tension(SMTU)
pounds
10000
5000
0
Borehole Temp in deg F
Array Induction - R30O(R30O)
ohm metres
0.20
2000
1
10
100
1000
Density Correction(DCOR)
grams/cc
-0.25
0
0.25
Gamma Ray(GRGC)
API
0
75
150
150
225
300
HVI every 10 cu ft
Array Induction - R40O(R40O)
ohm metres
0.20
2000
1
10
100
1000
PE(PDPE)
barns/electron
0
5
10
Spontaneous Potential(SPCG)
millivolts
20
Annular Integral every 10 cu ft
Array Induction - R60O(R60O)
ohm metres
0.20
2000
1
10
100
1000
SS Density Por. 2.68(DPOR)
percent
30
10
-10
Density Caliper(CLDC)
inches
6
11
16
Array Induction - R85O(R85O)
ohm metres
0.20
2000
1
10
100
1000
Bit Size(BIT)
inches
6
11
16
Replay Scale 1:240
Array Ind. One Res Rt(RTAO)
ohm metres
0.20
2000
1
10
100
1000
7200
188°
7250
188°
7300



Depth in Feet

Timing Marks
every 60.0 sec

DST Uphole Tension(SMTU)
pounds
10000 5000 0

Gamma Ray(GRGC)
API
0 75 150
150 225 300

Spontaneous Potential(SPCG)
millivolts
– → | 20 | ← +

Density Caliper(CLDC)
inches
6 11 16

Bit Size(BIT)
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.)(FEFC)
ohm metres
0.20 2000
1 10 100 1000

Array Induction - R30O(R30O)
ohm metres
0.20 2000
1 10 100 1000

Array Induction - R40O(R40O)
ohm metres
0.20 2000
1 10 100 1000

Array Induction - R60O(R60O)
ohm metres
0.20 2000
1 10 100 1000

Array Induction - R85O(R85O)
ohm metres
0.20 2000
1 10 100 1000

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

SS Neutron Por.(NPRS)
percent
30 10 -10

Density Correction(DCOR)
grams/cc
-0.25 0 0.25

PE(PDPE)
barns/electron
0 5 10

SS Density Por. 2.68(DPOR)
percent
30 10 -10

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 26-JAN-2011 03:36
Filename: C:\Documents and Settings\e145895\Desktop\41b-29-691\MAIN-Reprocessed.dta — Recorded on 25-JAN-2011 20:34
Filename: C:\Documents and Settings\e145895\Desktop\41b-29-691\REPEAT-Reprocessed.dta
System Versions: Logged with 11.01.2198 Processed with 11.01.2198 Plotted with 11.01.2198

OVERLAY

BEFORE SURVEY CALIBRATION

C:\Documents and Settings\e145895\Desktop\41b-29-691\MAIN-Reprocessed.dta

General Constants All 000

Last Edited on 25-JAN-2011,19:39

General Parameters		
Mud Resistivity	3.800	ohm-metres
Mud Resistivity Temperature	92.000	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 25-JAN-2011 18:42

Reading No	Measured	Calibrated (lbs)
1	16732.26	0.00
2	18043.58	368.20

High Resolution Temperature Calibration MCG-C 192

Field Calibration on 25-JAN-2011,16:13

	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 25-JAN-2011,16:13

	Measured	Calibrated (mV)
Reference 1	102.5	101.0
Reference 2	-98.8	-101.0

Gamma Calibration MCG-C 192

Field Calibration on 25-JAN-2011 15:56

	Measured	Calibrated (API)
Background	95	65
Calibrator (Gross)	1425	977
Calibrator (Net)	1330	912

Gamma Constants MCG-C 192

Last Edited on 25-JAN-2011,19:40

Gamma Calibrator Number	GRC-072	
Mud Density	1.00	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 25-DEC-2010,03:47
Field Check on 25-JAN-2011 16:01

Base Calibration

	Measured	Calibrated (cps)

	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)	
	1305	1999
Ratio	0.653	

Neutron Constants MDN-A.B 160

Last Edited on 26-JAN-2011,00:07

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-JAN-2011 14:22
Field Check on 25-JAN-2011 16:05

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	968.2	126.8
Base Check		280.9
Field Check		281.1

FE Constants MFE-A.A 85

Last Edited on 25-JAN-2011,23:27

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 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 25-JAN-2011 16:09

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	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)		Field Check (mmho/m)		
	Low	High	Low	High	
1	13.7	3844.7	13.8	3845.2	
2	29.6	3491.4	29.6	3491.2	
3	27.5	3023.7	27.5	3023.4	
4	19.5	2088.1	19.5	2087.9	
Deep	17.0	2015.1	17.0	2014.9	
Medium	39.5	3941.1	39.5	3940.5	
Shallow	44.1	5104.6	44.1	5104.5	
Array Temperature		62.1		63.3	Deg F

Induction Constants MAI-B.A 212

Last Edited on 25-JAN-2011,23:28

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	0.0000	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 25-JAN-2011,16:15

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 25-JAN-2011 23:26

Density Calibration

Base Calibration	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Reference 1	48339	18513	53115	19186
Reference 2	22777	3049	25020	2536
Field Check at Base	1168.2	1745.6		
Field Check	1174.7	1752.4		

PE Calibration

Base Calibration	WS	Measured WH	Measured 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	214.2	1047.5		

Density Constants MPD-B 167

Last Edited on 25-JAN-2011,16:15

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	1.34	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

AFTER SURVEY CALIBRATION

C:\Documents and Settings\e145895\Desktop\41b-29-691\MAIN-Reprocessed.dta

Gamma Check MCG-C 192

Field Calibration on 25-JAN-2011 15:56
After Survey Check on 26-JAN-2011 00:06

	Before (API)	After (API)
Background	65	67
Calibrator (Gross)	977	979
Calibrator (Net)	912	912

Neutron Check MDN-A.B 160

Before Survey Check on 25-JAN-2011 16:01
After Survey Check on 26-JAN-2011 00:11

Near (cps) Before	Near (cps) After	Far (cps) Before	Far (cps) After
1305	1268	1999	1921

Ratio Before	Ratio After
0.653	0.660

FE Check MFE-A.A 85

Before Survey Check 25-JAN-2011 16:05
After Survey Check on 25-JAN-2011 23:28

	Before (ohm-m)	After (ohm-m)
	281.1	280.8

Induction Check MAI-B.A 212

Before Survey Check on 25-JAN-2011 16:09
After Survey Check on 25-JAN-2011 23:30

Channel	Before Survey (mmho/m)		After Survey (mmho/m)		
	Low	High	Low	High	
1	13.8	3845.2	14.4	3844.8	
2	29.6	3491.2	29.9	3491.1	
3	27.5	3023.4	27.6	3023.4	
4	19.5	2087.9	19.6	2087.7	
Deep	17.0	2014.9	17.1	2014.8	
Medium	39.5	3940.5	39.7	3940.7	
Shallow	44.1	5104.5	44.5	5104.3	
Array Temperature		63.3		69.7	Deg F

DOWNHOLE EQUIPMENT

C:\Documents and Settings\e145895\Desktop\41b-29-691\MAIN-Reprocessed.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 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

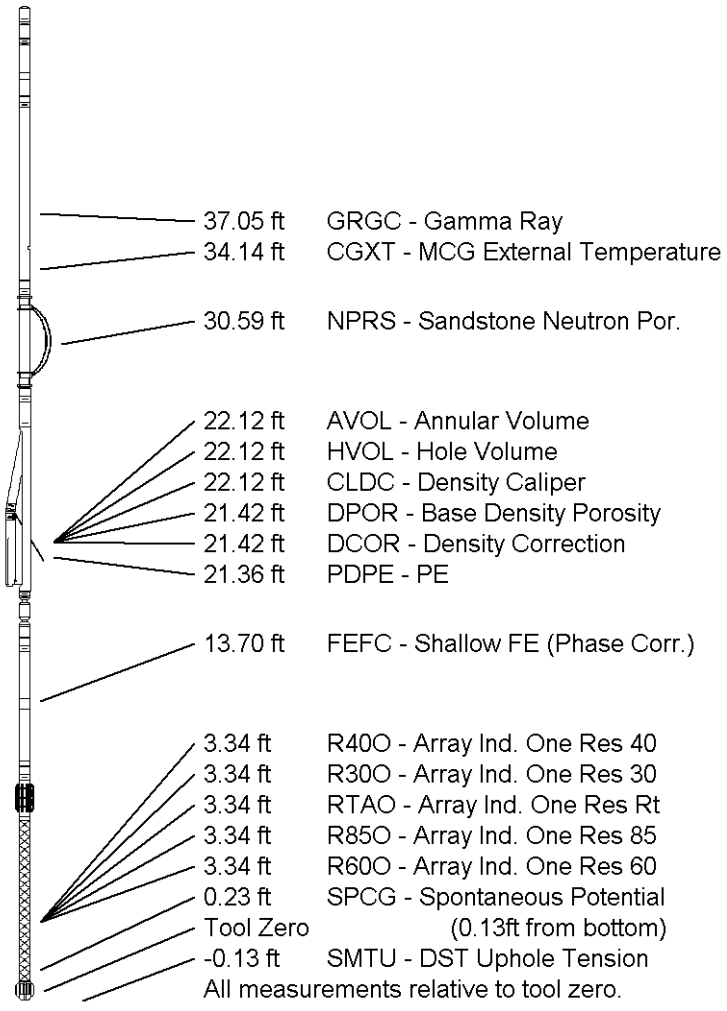
Compact Density/Caliper
MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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 41B-29-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet	First Reading	7438.00	

Elevation Drill Floor	6126.00	feet	Depth Driller	7435.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7438.00	feet

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COMPACT TRIPLE COMBO
QUICKLOOK
LOG

40 Years of Wireline 1970 2010