Weatherford®

COMPACT DROP OFF
TRIPLE COMBO
QUICKLOOK LOG

COMPANY	ENCANA OIL AND GAS (USA)
WELL	NP EF 09E-27 P27 595
FIELD	GRAND VALLEY
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO
LOCATION	SHL: 728' FSL & 594' FEL

40 Years of Wireline 1979 2019

SEC	TWP	RGE
27	5S	95W

Other Services

API Number 05-045-20299
Permit Number

Permanent Datum G.L., Elevation 6650 feet
Log Measured From KB
Drilling Measured From K.B.

Elevations:	feet
KB	6672.00
DF	6672.00
GL	6650.00

Date	22-JULY-2012			
Run Number	1			
Depth Driller	11265.00	feet		
Depth Logger	11265.00	feet		
First Reading	11212.00	feet		
Last Reading	1826.00	feet		
Casing Driller	1826.00	feet		
Casing Logger	1826.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	WBM			
Density / Viscosity	10.80 lb/USg	48.00 CP		
PH / Fluid Loss	8.80	4.50 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.85 @ 96.4	ohm-m		
Rmf @ Measured Temp	1.48 @ 96.4	ohm-m		
Rmc @ Measured Temp	2.22 @ 96.4	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.77 @235.0	ohm-m		
Time Since Circulation	2 HOUR			
Max Recorded Temp	235.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13037	RK SPR		
Recorded By	B. ROSSER			
Witnessed By	J. RETHERFORD			

BOREHOLE RECORD

Last Edited: 22-JUL-2012 22:53

Bit Size (inches)	Depth From (feet)	Depth To (feet)
8.750	1826.00	7553.00
7.865	7553.00	11265.00

CASING RECORD

Type	Size (inches)	Depth From (feet)	Shoe Depth (feet)	Weight (pounds/ft)
SURFACE	9.625	0.00	1826.00	36.00

REMARKS

SOFTWARE VERSION USED: WLS 12.02.4401

TOOLS CONVEYED VIA COMPACT DROP OFF.

ALL DEPTHS RECORDED WITH WEATHERFORD PASON INTERFACE SYSTEM.
ALL DEPTHS CORRECTED BACK TO DRILLERS STRAP.

MAI, MFE, MPD, MDN, MCG RAN IN COMBINATION.
HARDWARE USED: SEE TOOL DIAGRAM.

CUSTOMER'S SCALES USED AND INTERVALS LOGGED.

INDUCTION MODEL: RTAP WBM

CALIPER TRIGGERED CLOSED FROM 6362 FEET TO 5660 FEET DUE TO METALLIC PROPERTIES IN HOLE AT ABOUT 6490 FEET.
NO CALIPER DATA FROM 6362 FEET TO 5660 FEET.
ALL TOOLS REPROCESSED TO BIT SIZE CORRECTION FROM 6362 FEET TO 5660 FEET.

4.5 INCH PRODUCTION CASING USED TO CALCULATE ANNULAR HOLE VOLUME.

ANNULAR HOLE VOLUME: 3262 CUBIC FEET
HOLE VOLUME: 4217 CUBIC FEET

BOREHOLE SIZE AND RUGOSITY WILL AFFECT DATA QUALITY.

OPERATOR(S): D.SMITH, J.GERDES

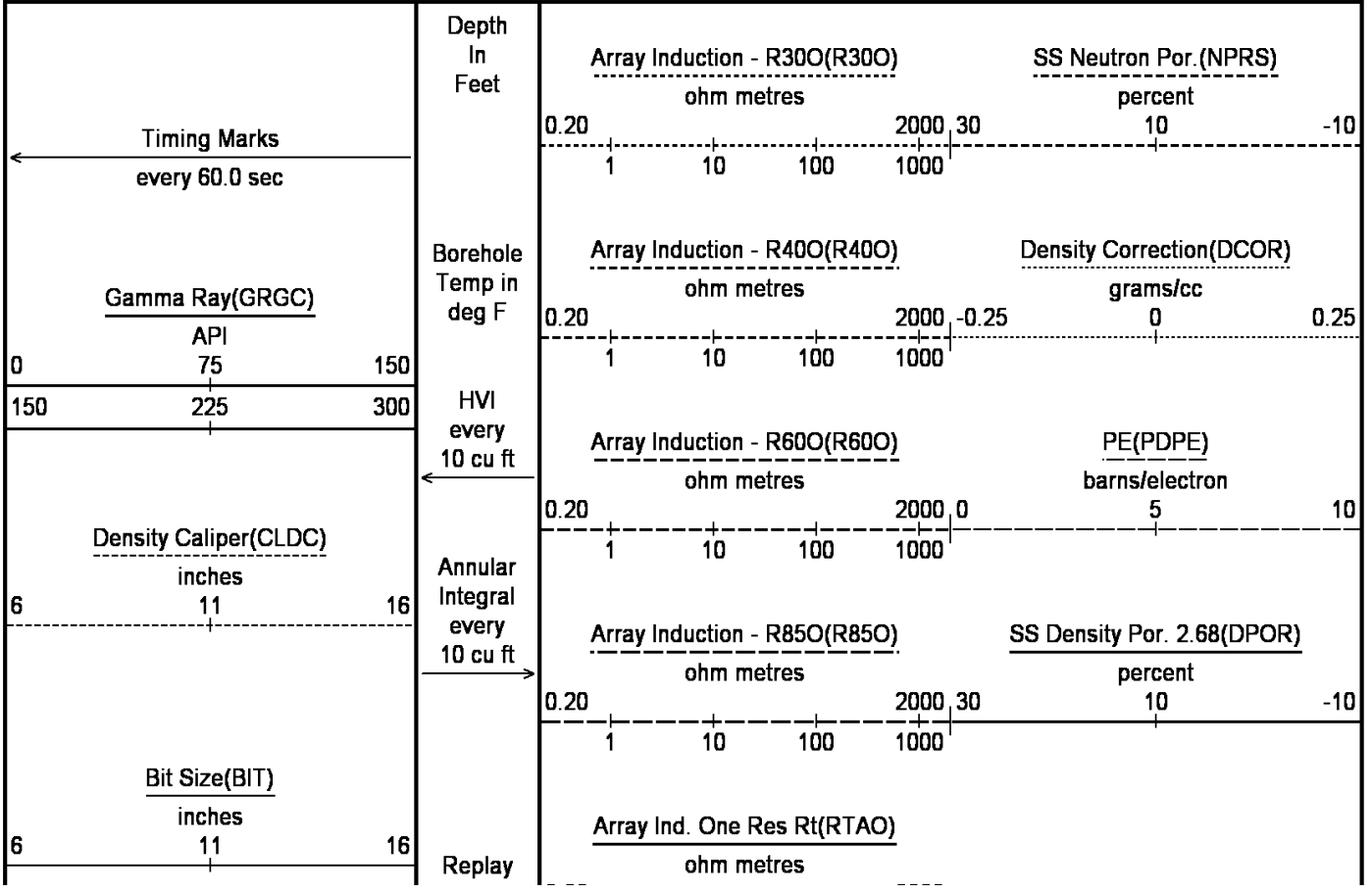
RIG: PATERSON 303

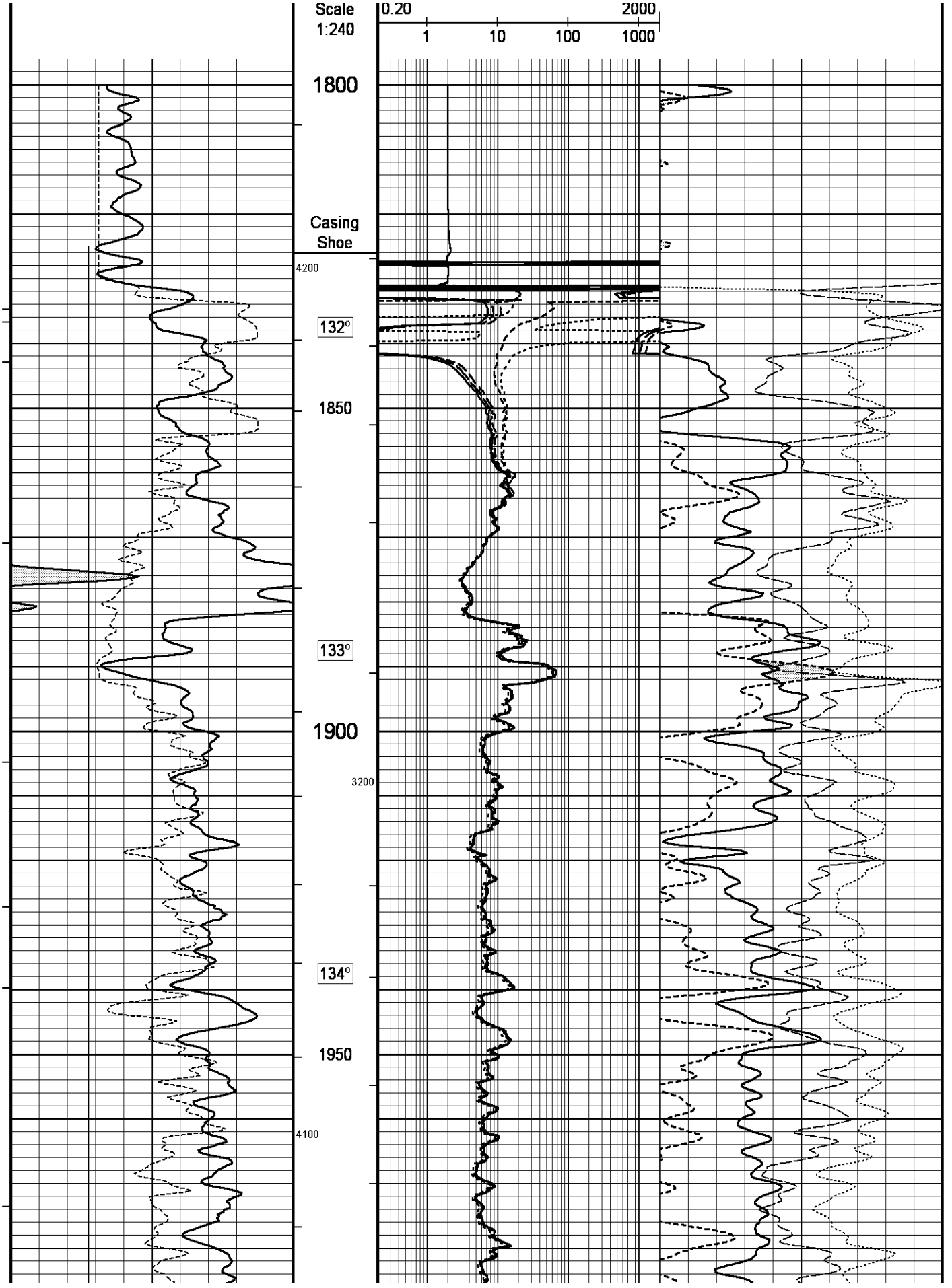
SERVICE ORDER #3529662

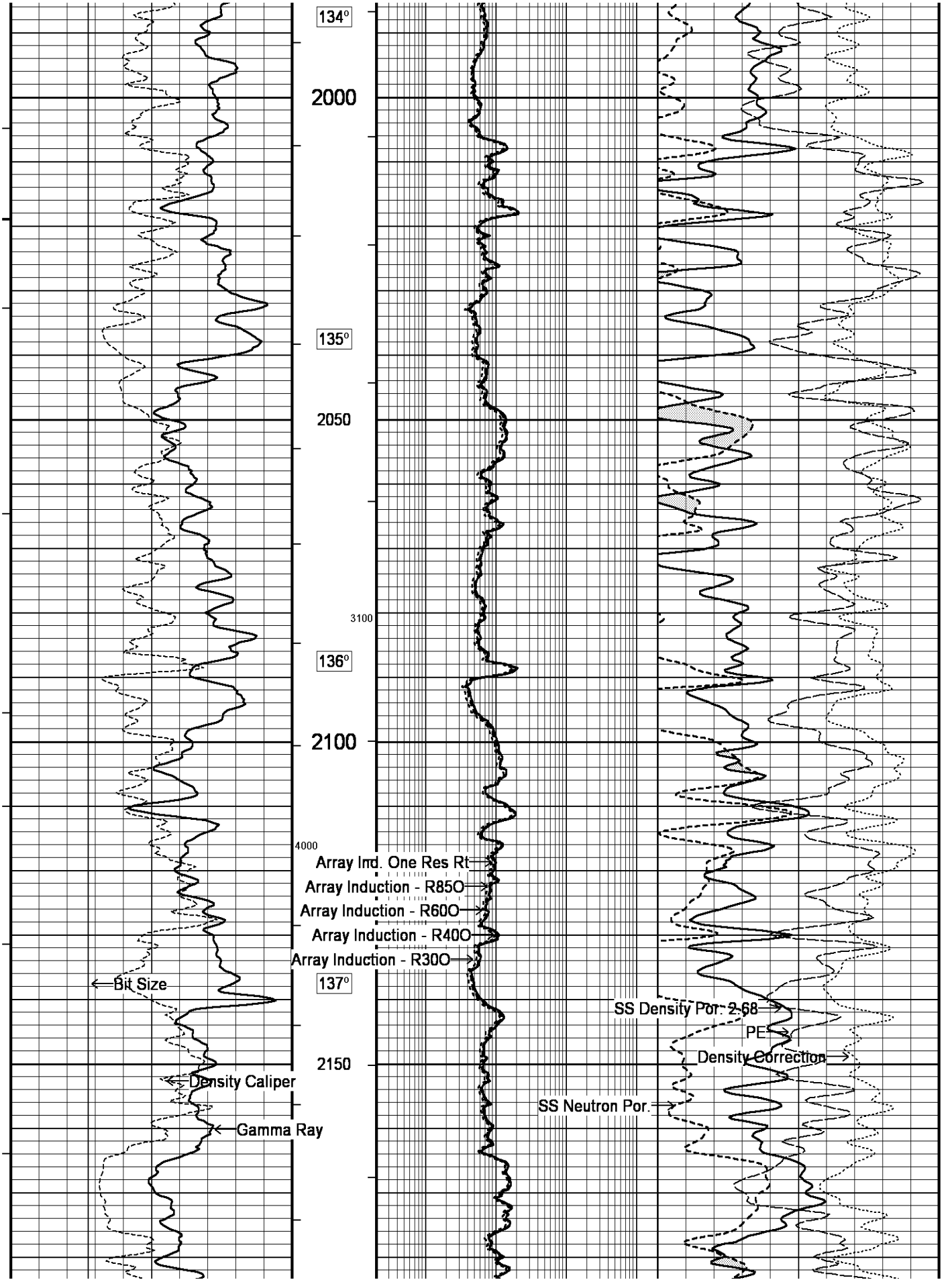
5 INCH MAIN LOG

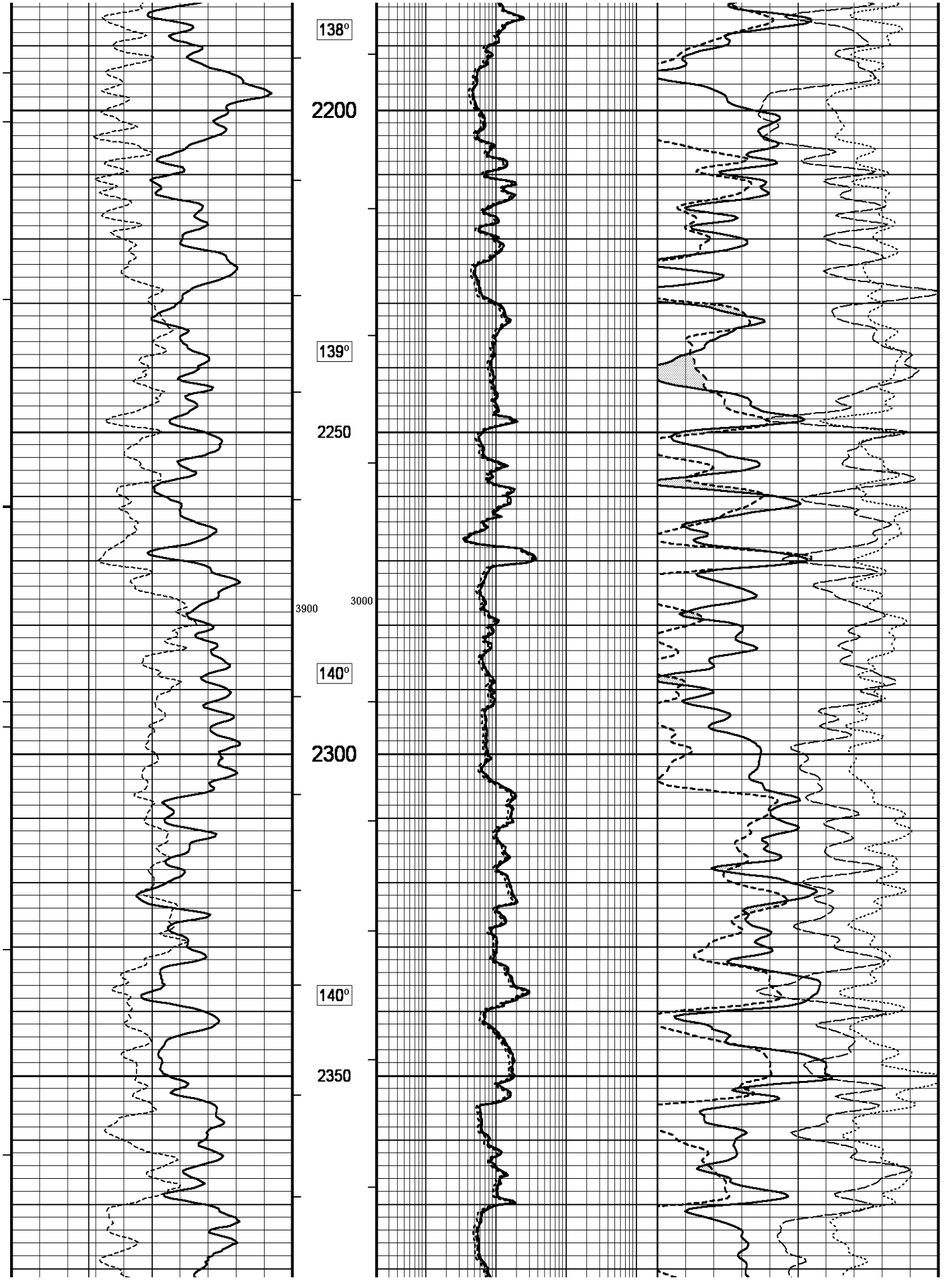
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus\Logs\Encana\NP EF09E-27 P27 595\NP EF 09E-27 P27 595 Depth.dta
System Versions: Plotted with 12.02.4401

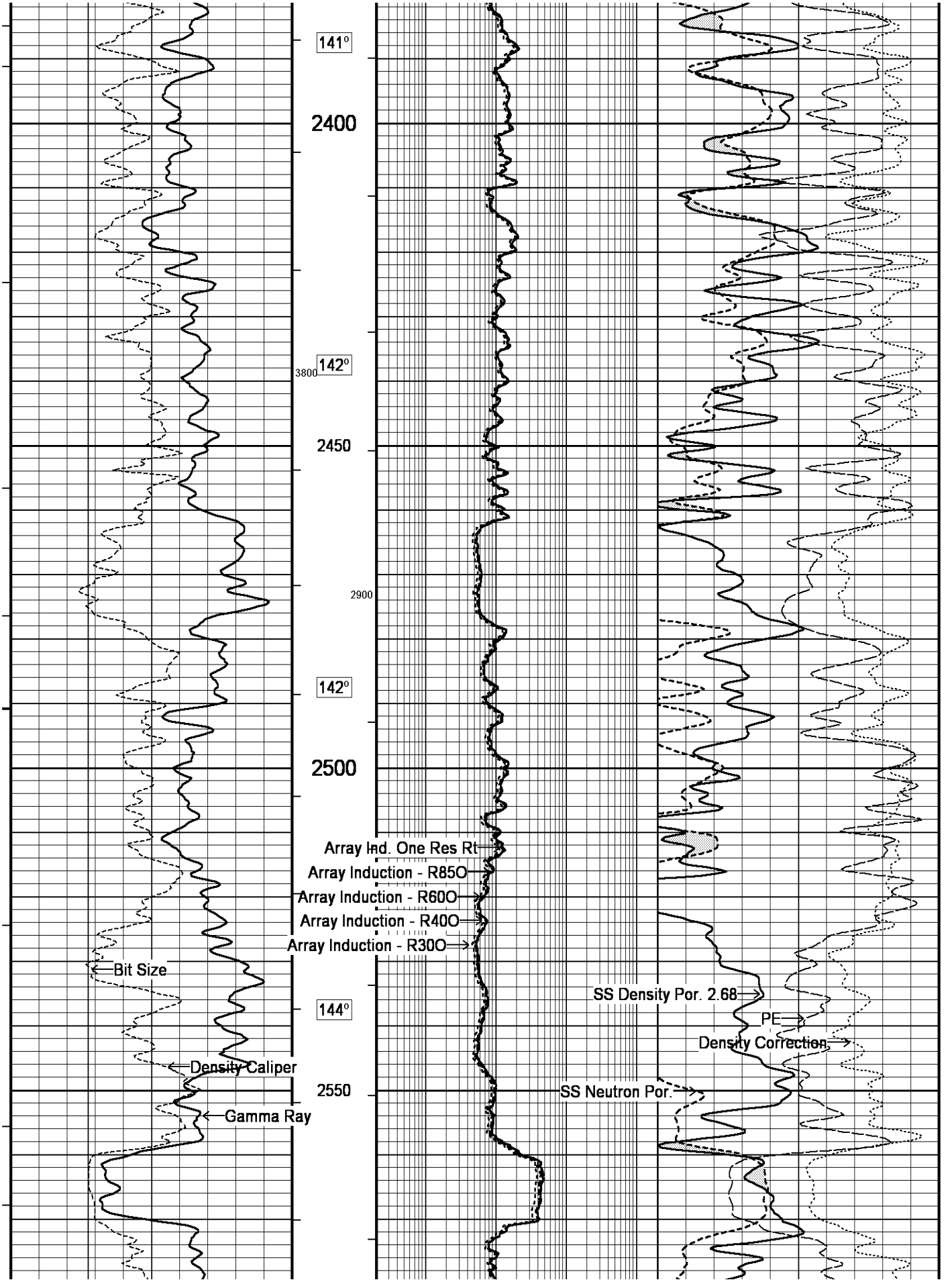
Plotted on 23-JUL-2012 00:04
Recorded on 22-JUL-2012 23:28

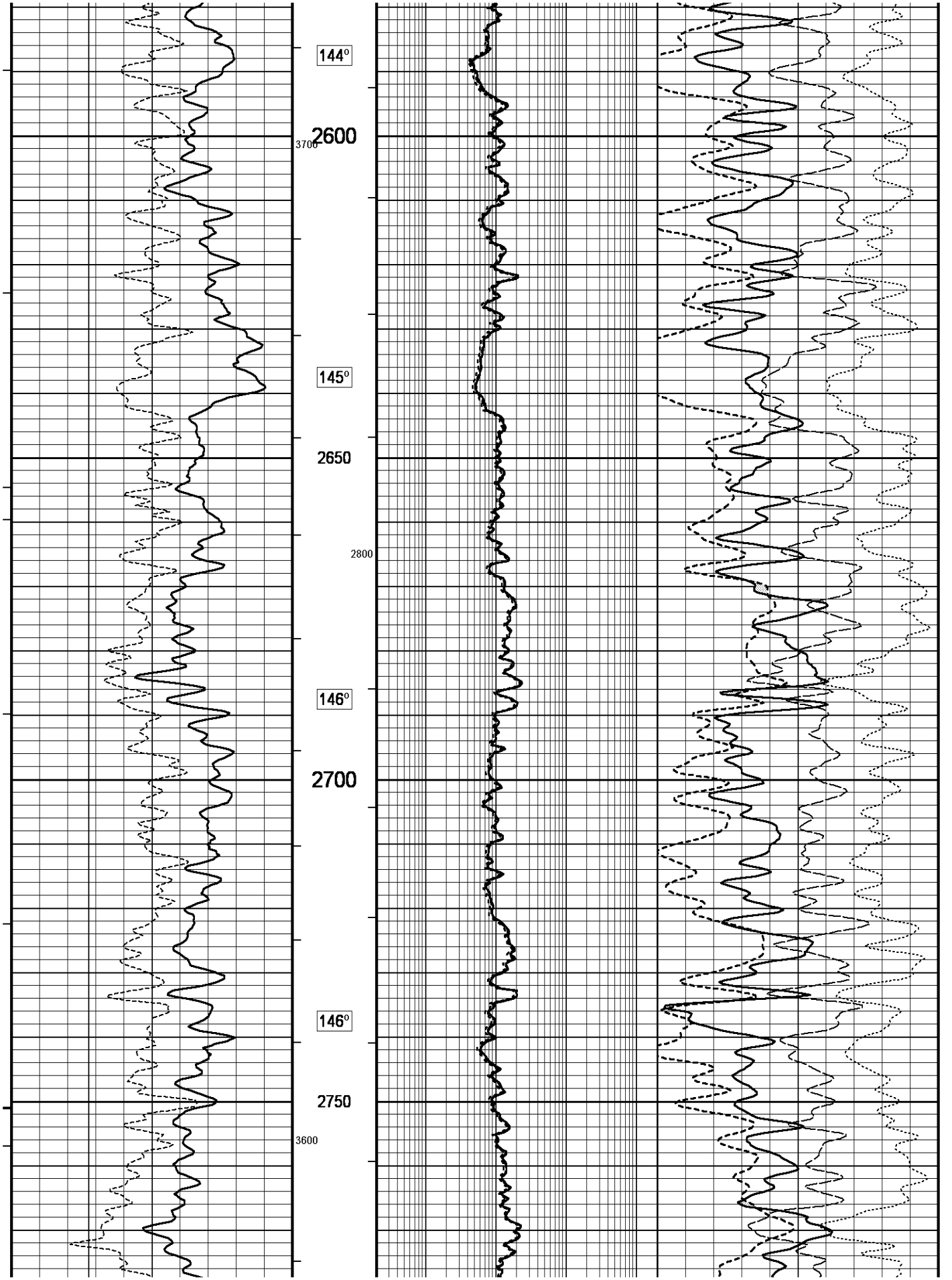


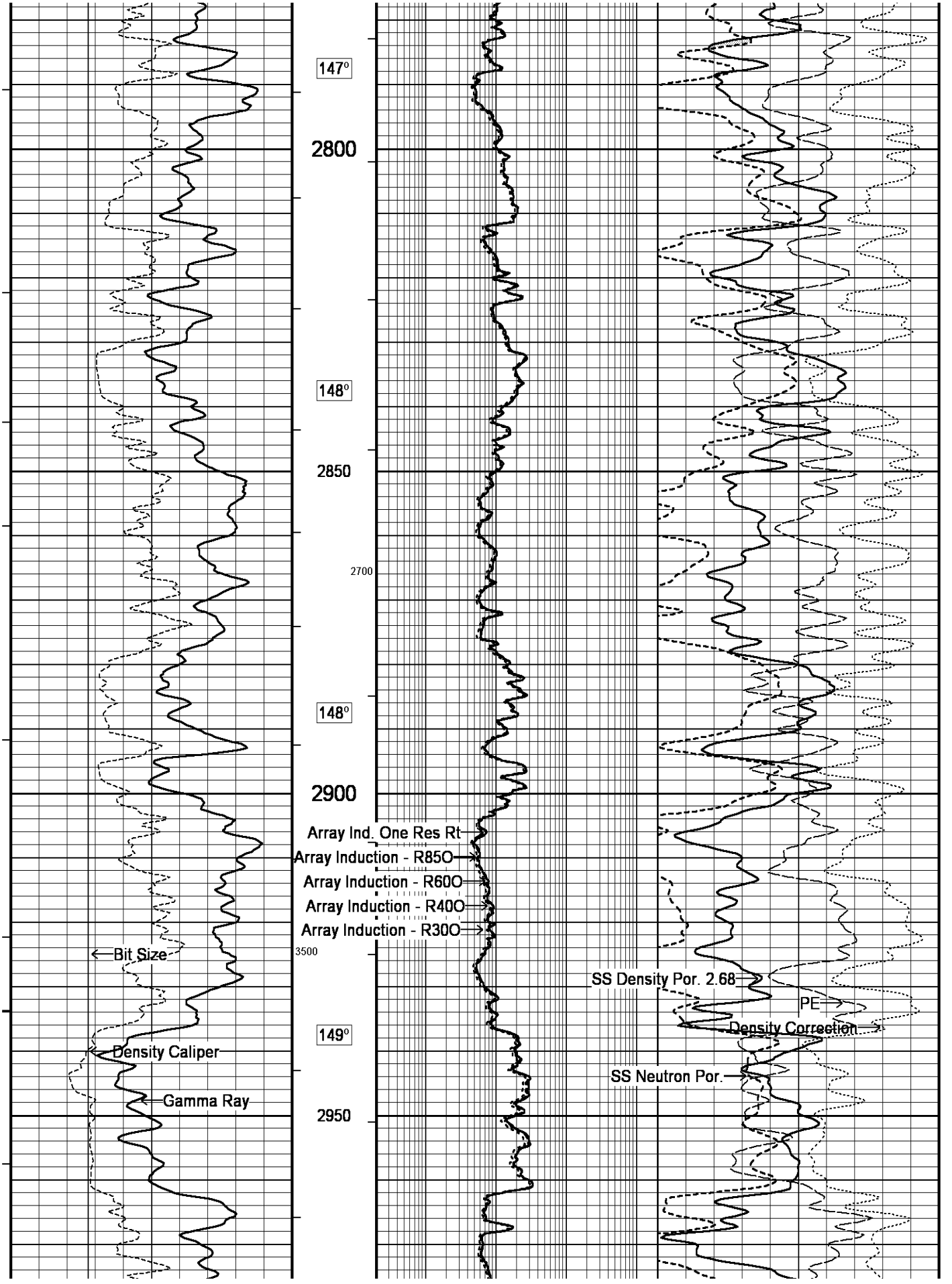

Scale
1:240
0.20
2000
1
10
100
1000
1800
Casing
Shoe
4200
132°
1850
133°
1900
3200
134°
1950
4100

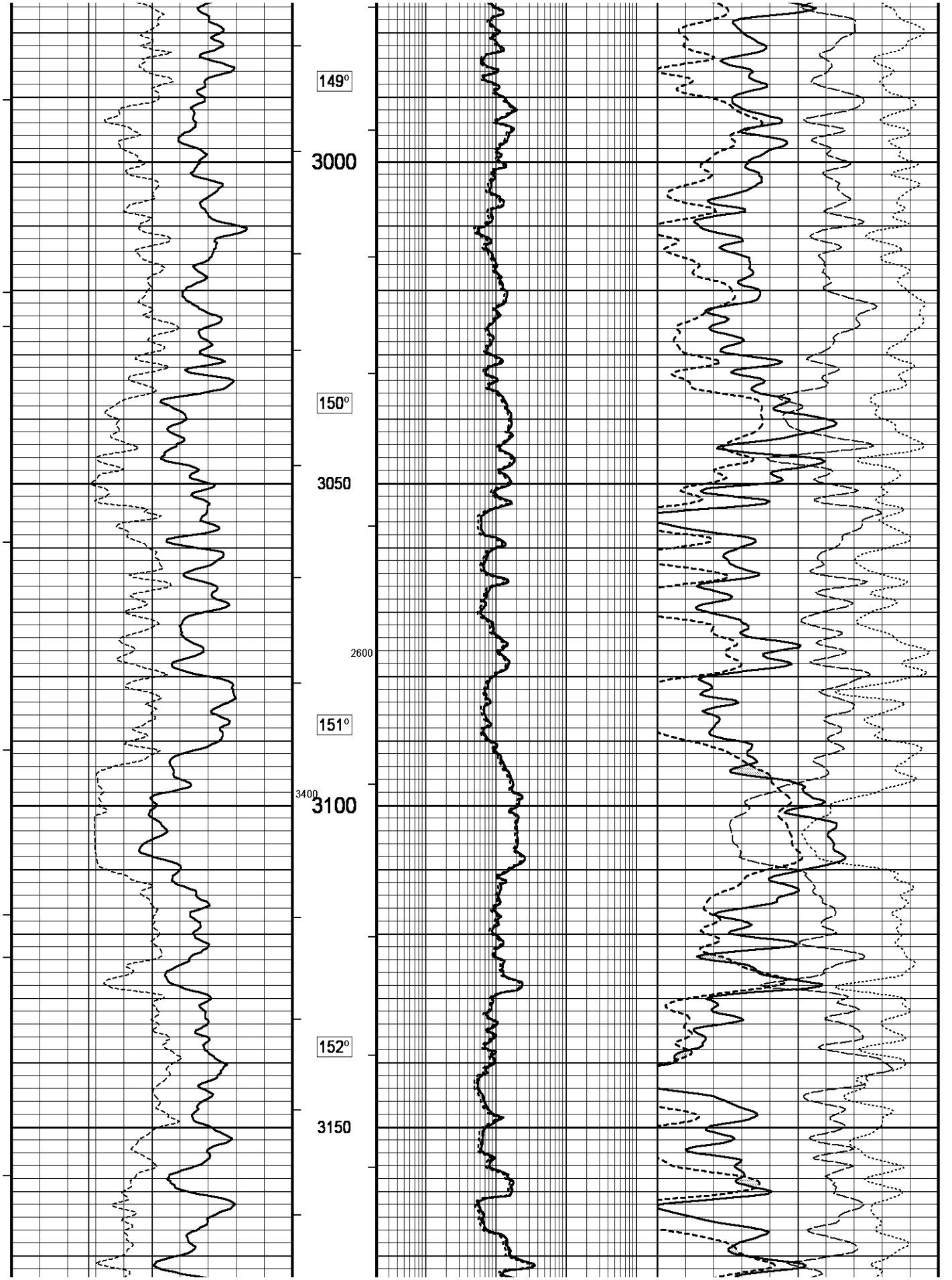

134°
2000
135°
2050
3100
136°
2100
4000
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
137°
Bit Size
2150
Density Caliper
Gamma Ray
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.

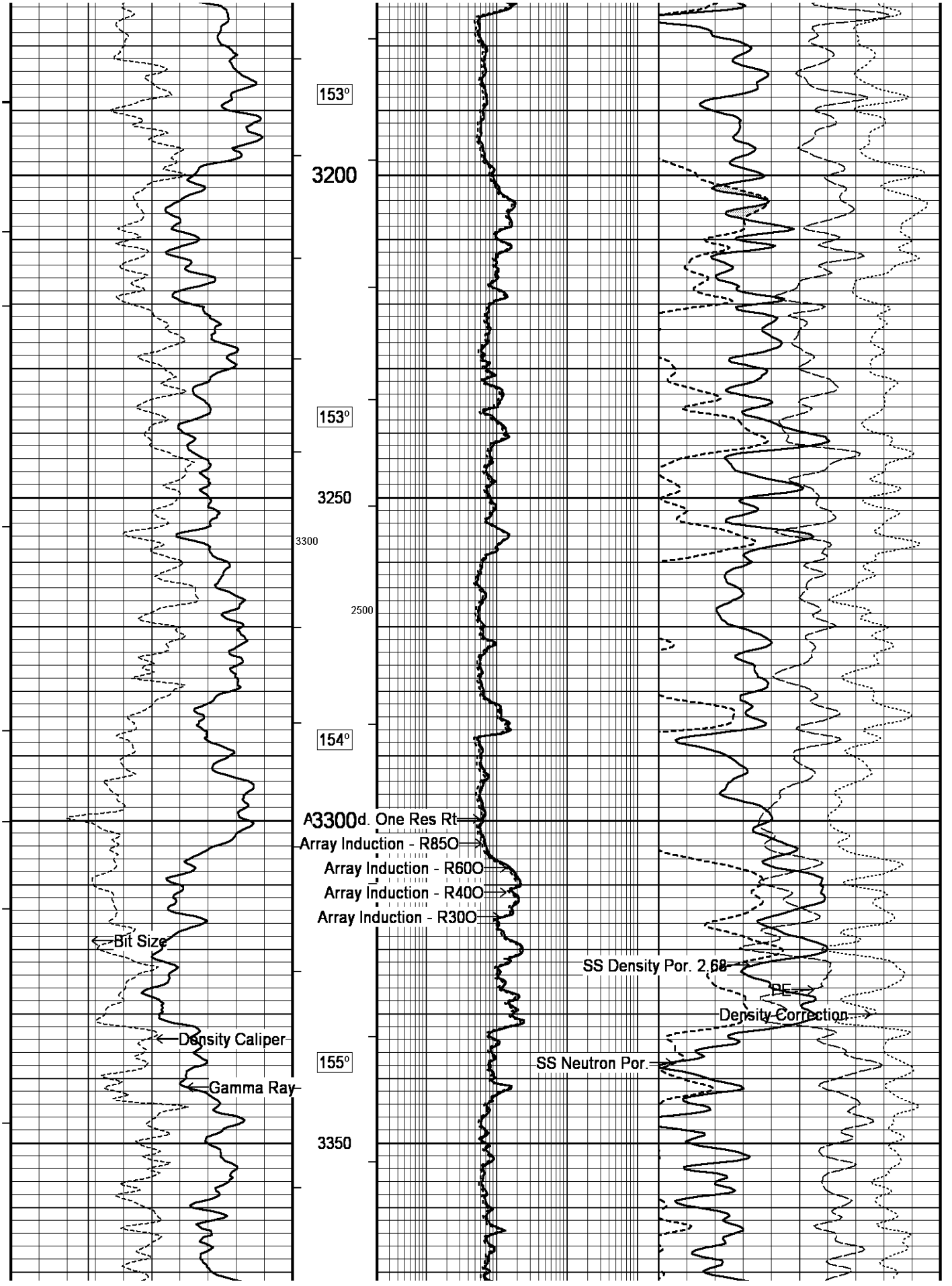

138°
2200
139°
2250
3900
3000
140°
2300
140°
2350

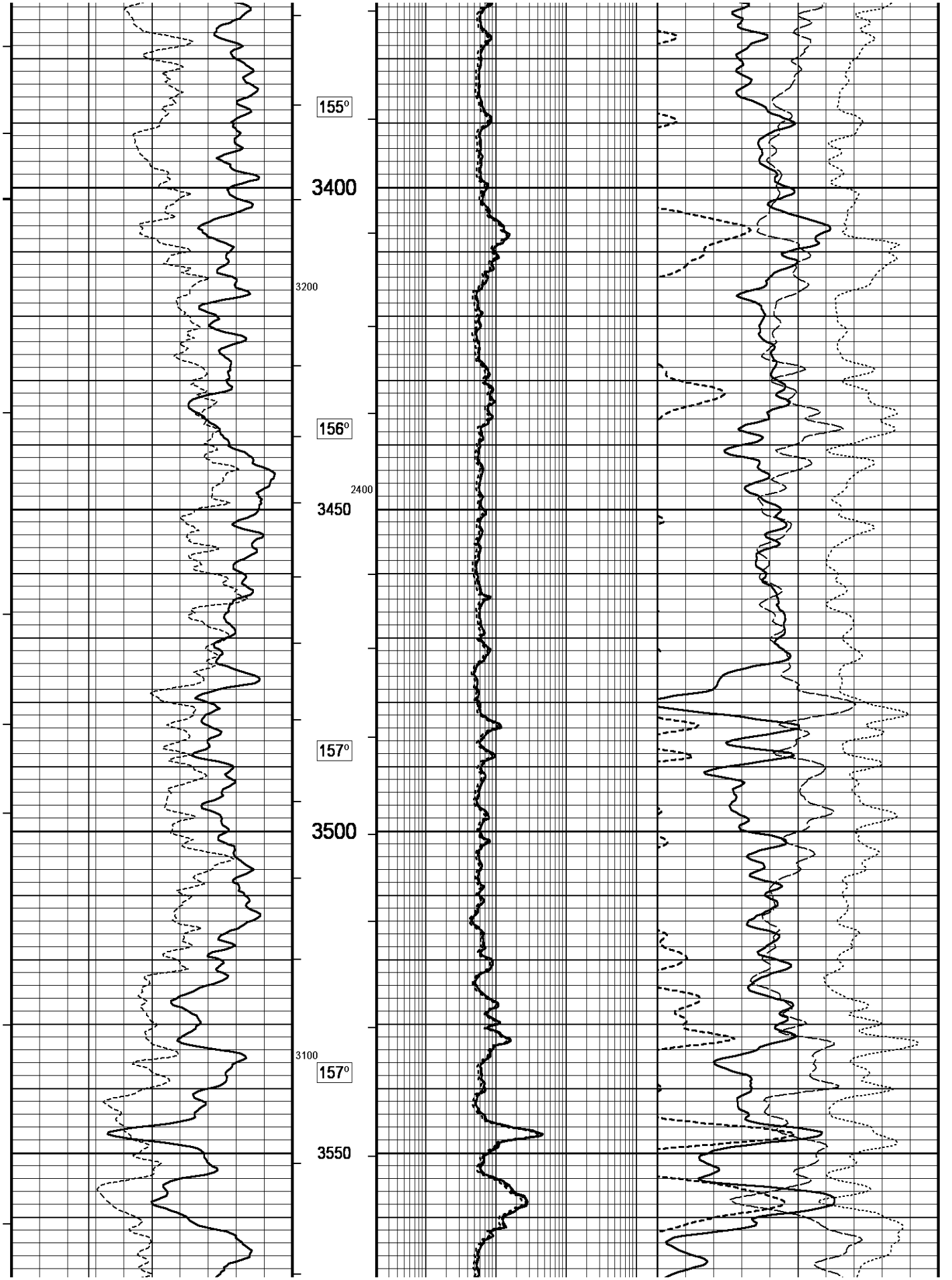

141°
2400
142°
3800
2450
2900
142°
2500
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
144°
SS Density Por. 2.68
PE
Density Correction
Density Caliper
2550
SS Neutron Por.
Gamma Ray

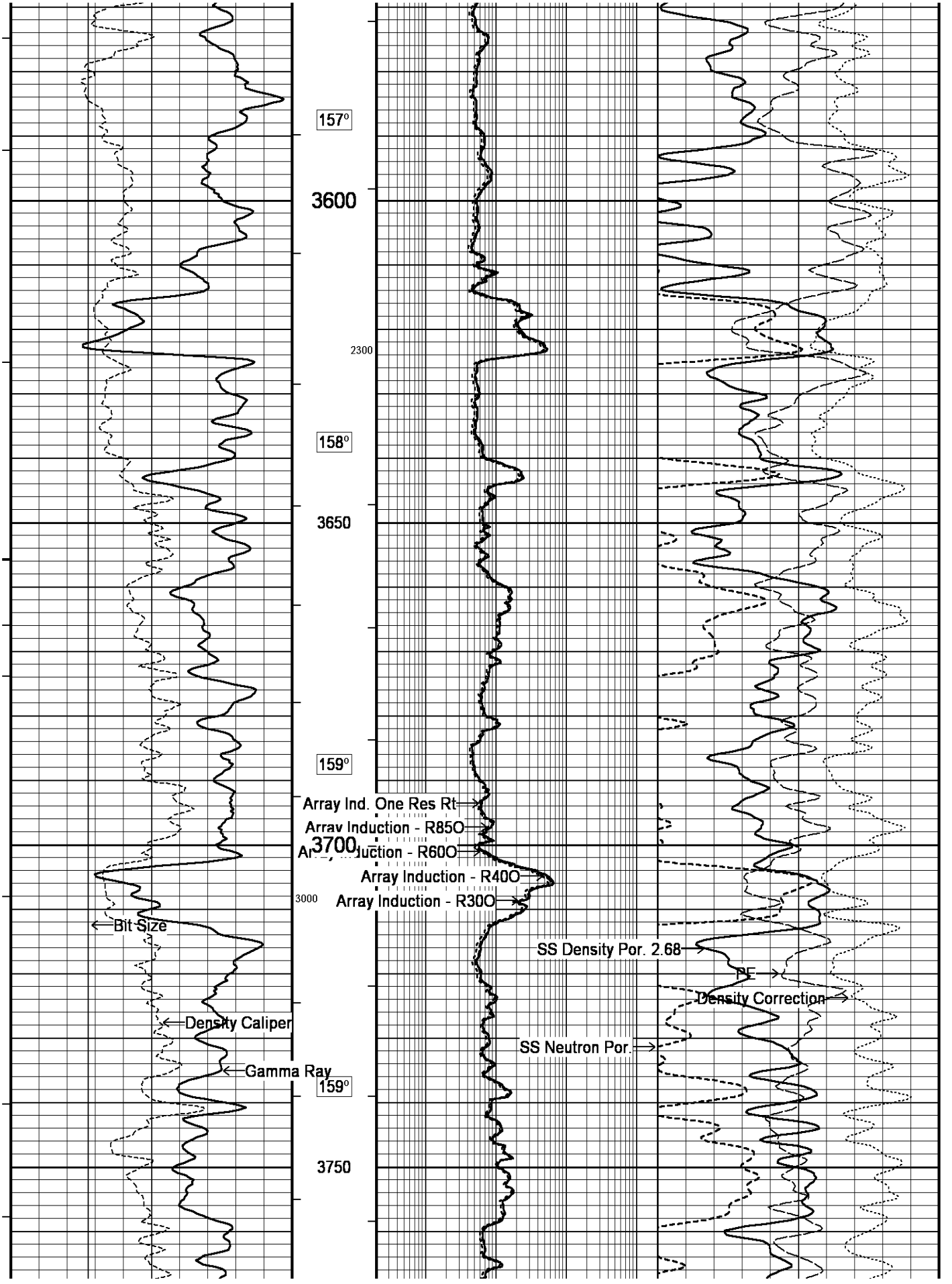

144°
2600
3700
145°
2650
2800
146°
2700
146°
2750
3600

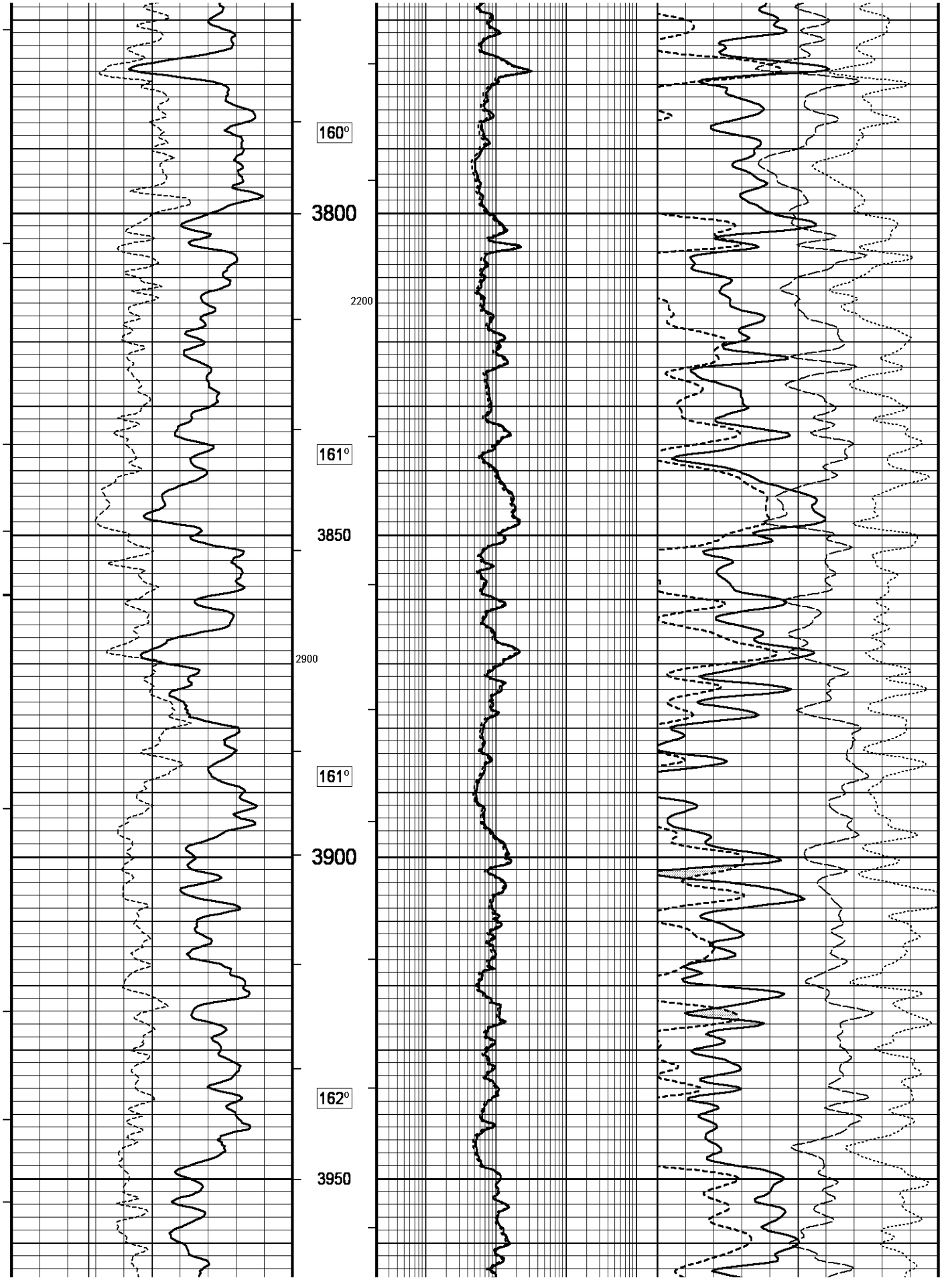

147°
2800
148°
2850
2700
148°
2900
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
3500
Bit Size
Density Caliper
Gamma Ray
149°
2950
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.

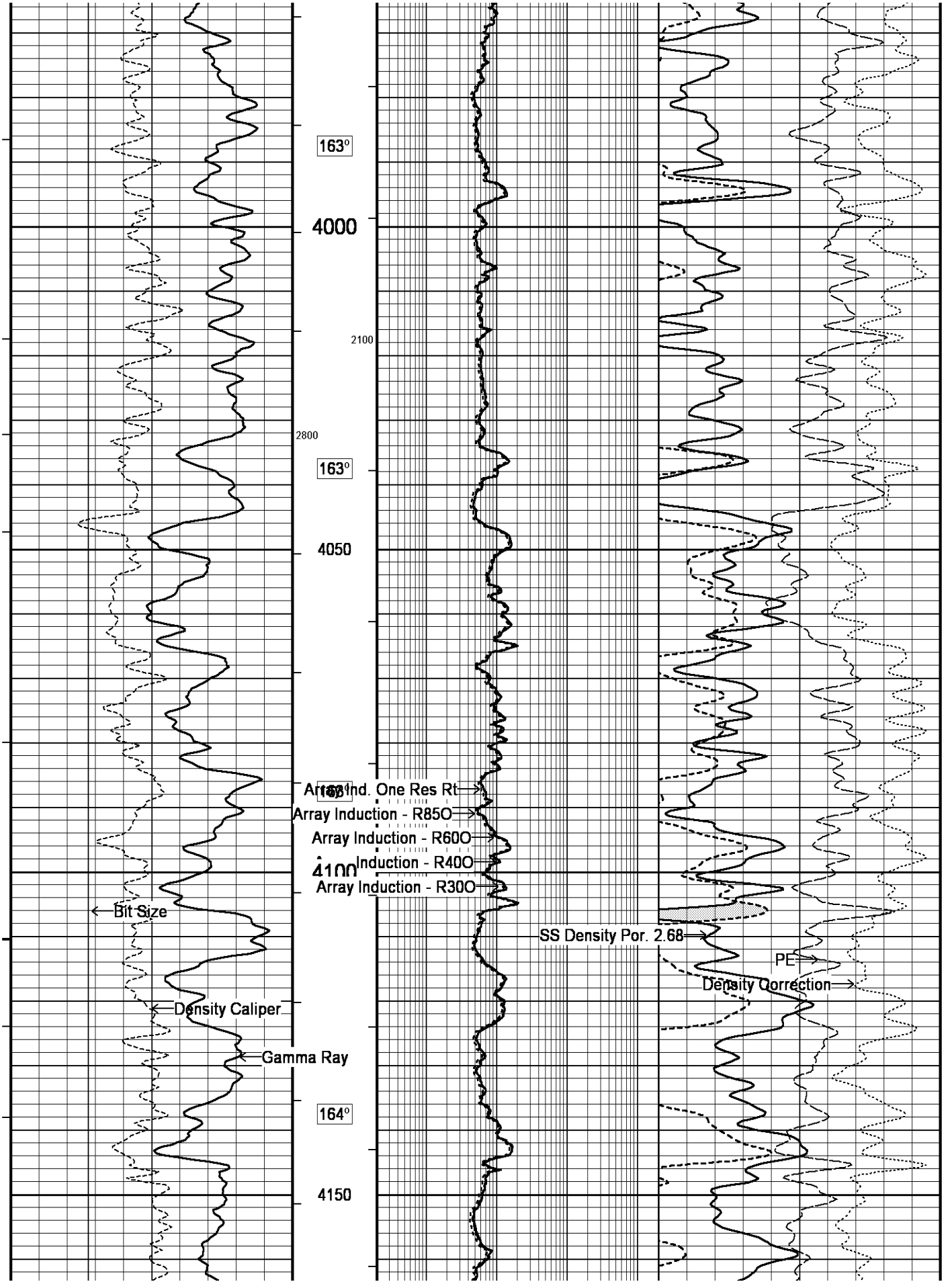

149°
3000
150°
3050
2600
151°
3400
3100
152°
3150

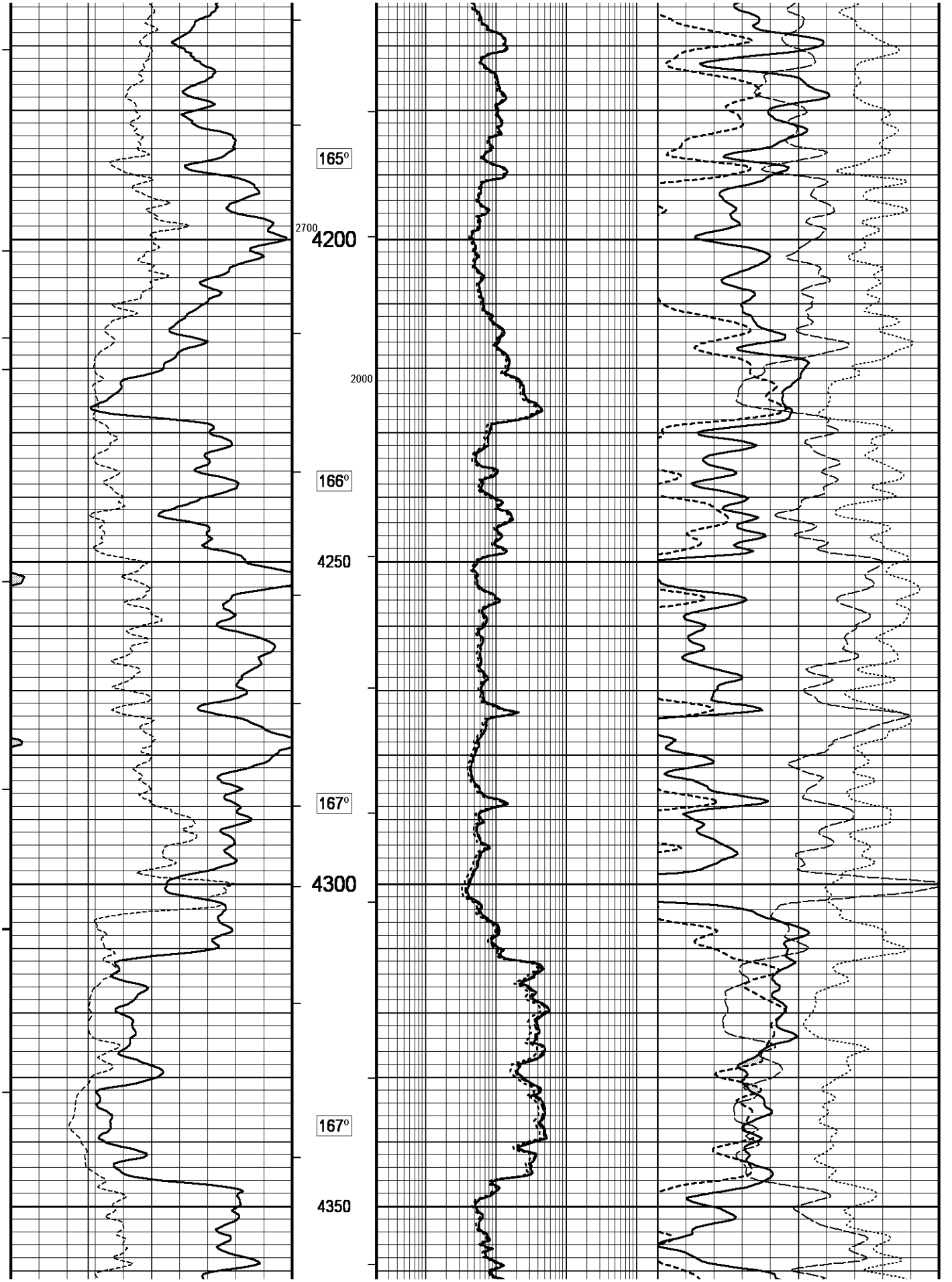

153°
3200
153°
3250
3300
2500
154°
3300
Array Induction - One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Density Caliper
Gamma Ray
155°
3350
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.

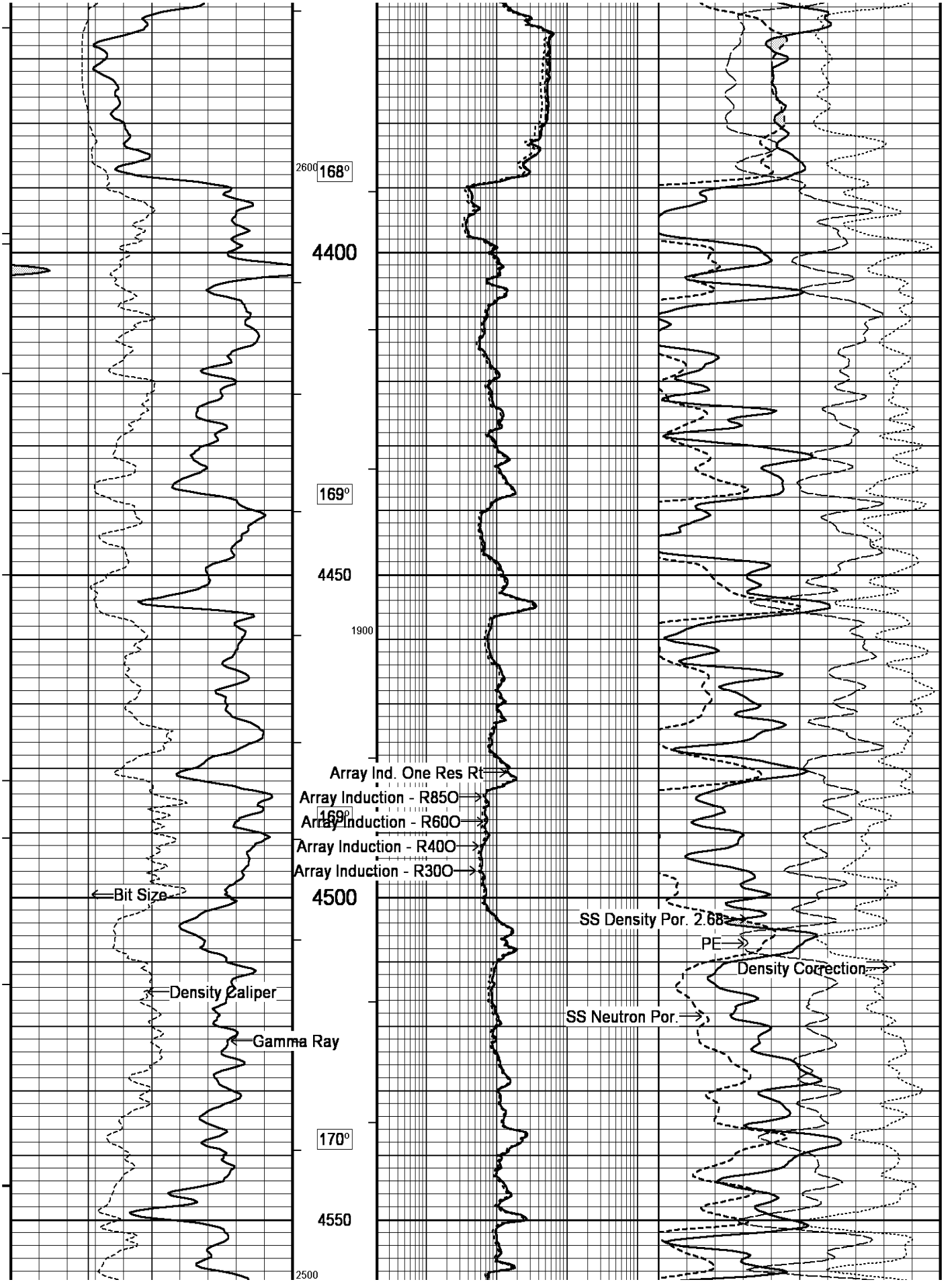

155°
3400
3200
156°
2400
3450
157°
3500
3100
157°
3550

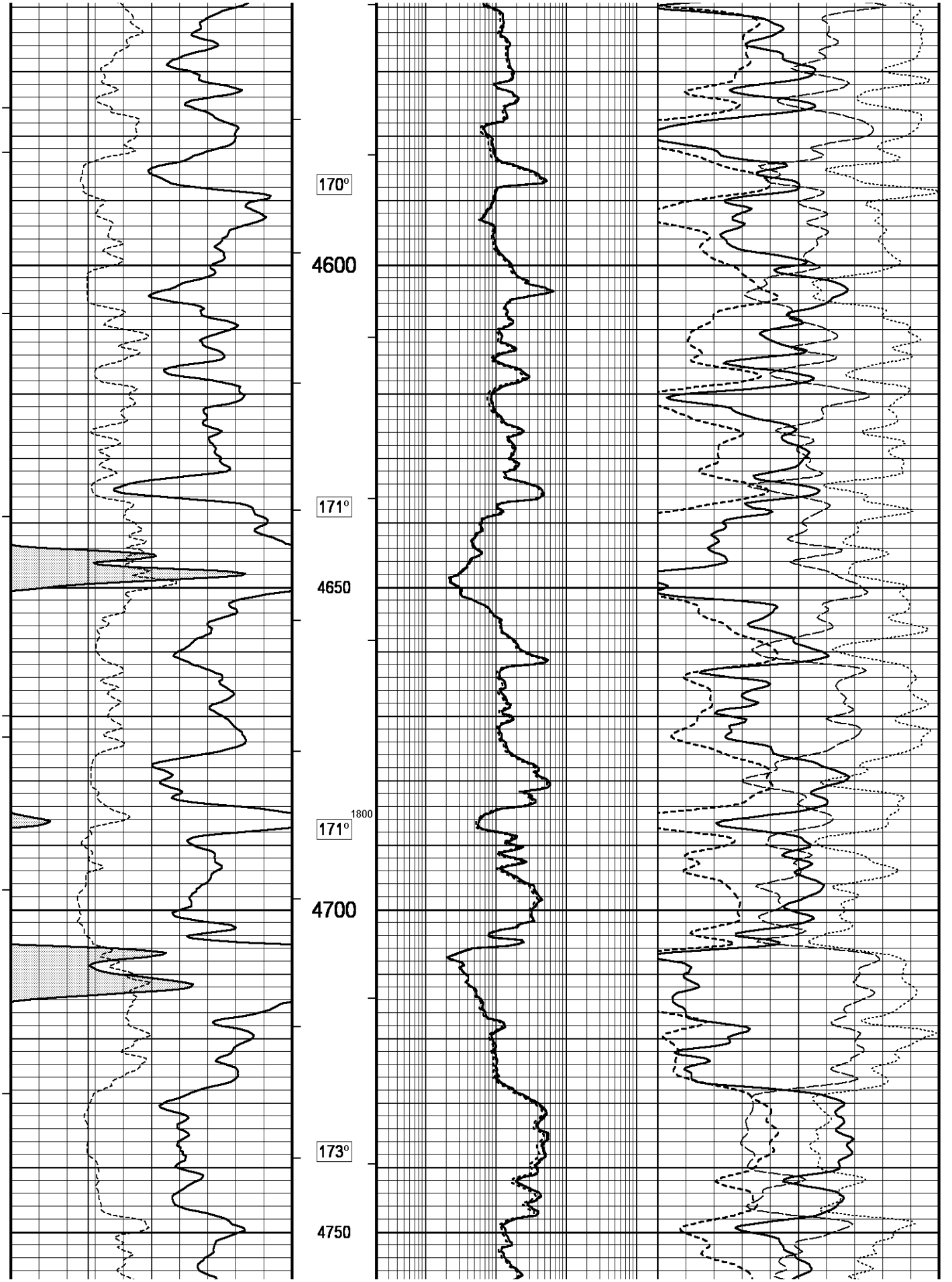

157°
3600
2300
158°
3650
159°
Array Ind. One Res Rt
Array Induction - R85O
3700
Array Induction - R60O
Array Induction - R40O
3000
Array Induction - R30O
Bit Size
SS Density Por. 2.68
PE
Density Correction
Density Caliper
SS Neutron Por.
Gamma Ray
159°
3750

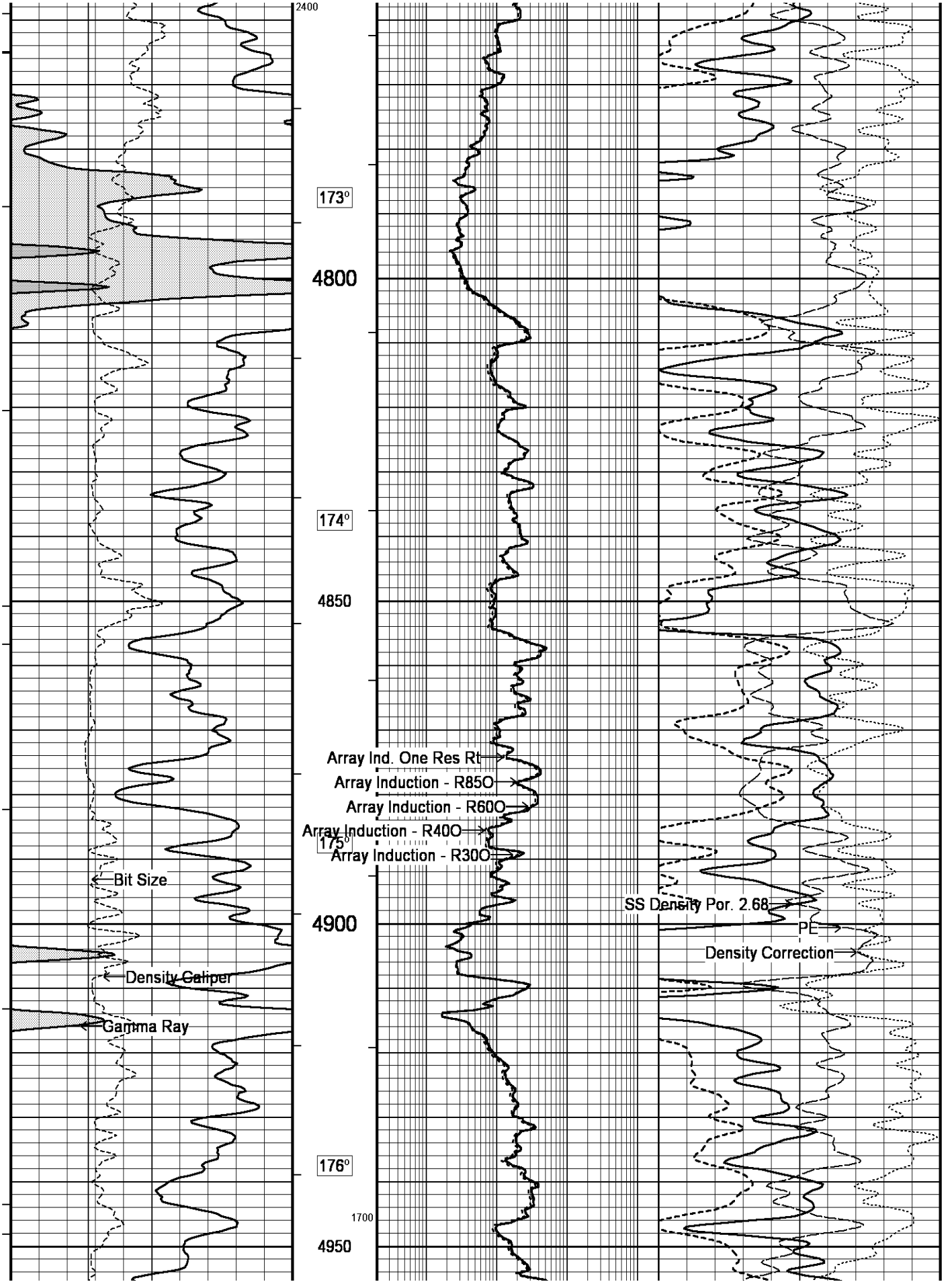

160°
3800
2200
161°
3850
2900
161°
3900
162°
3950

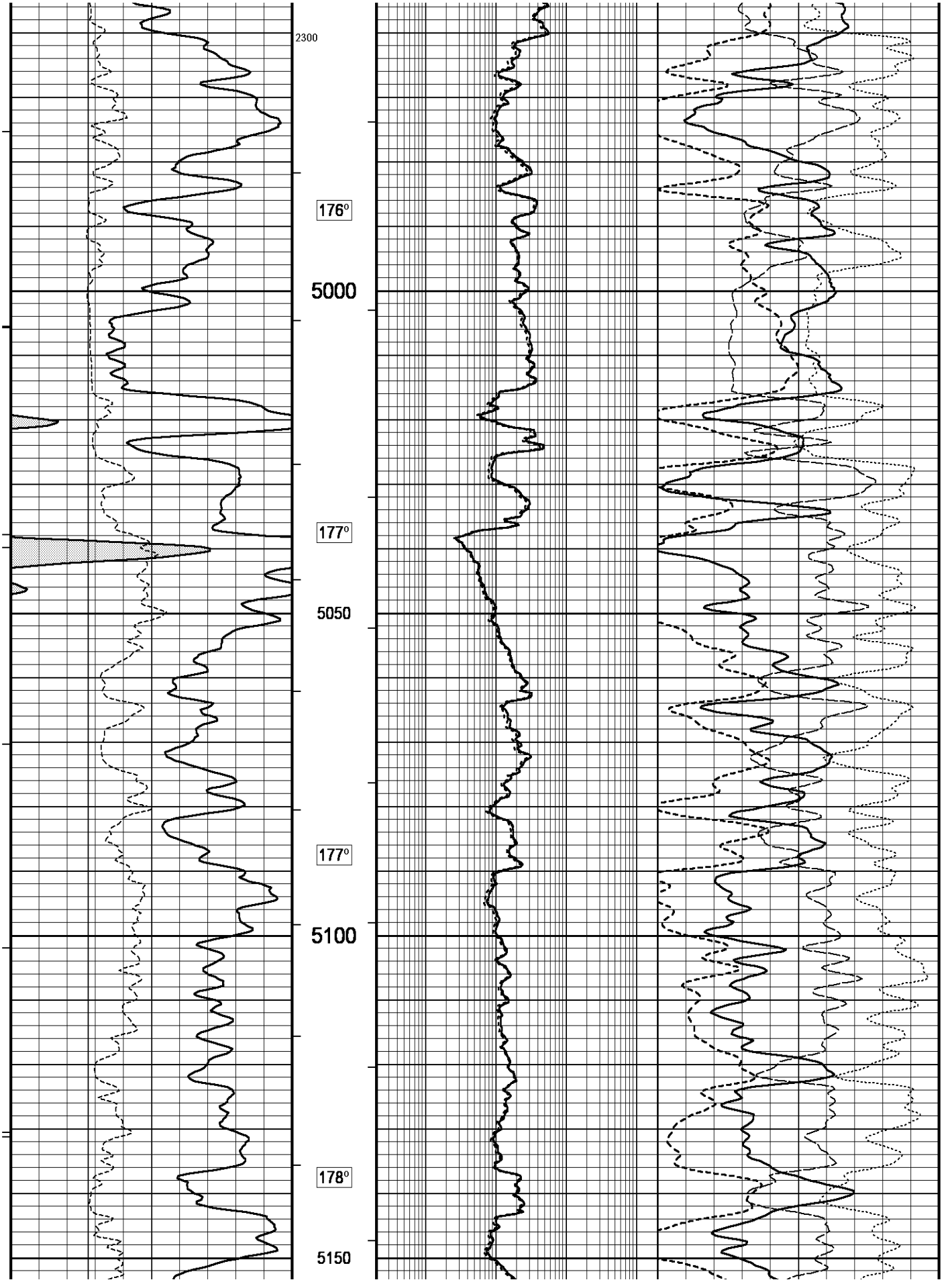

163°
4000
2100
2800
163°
4050
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Induction - R40O
Array Induction - R30O
Bit Size
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Gamma Ray
164°
4150

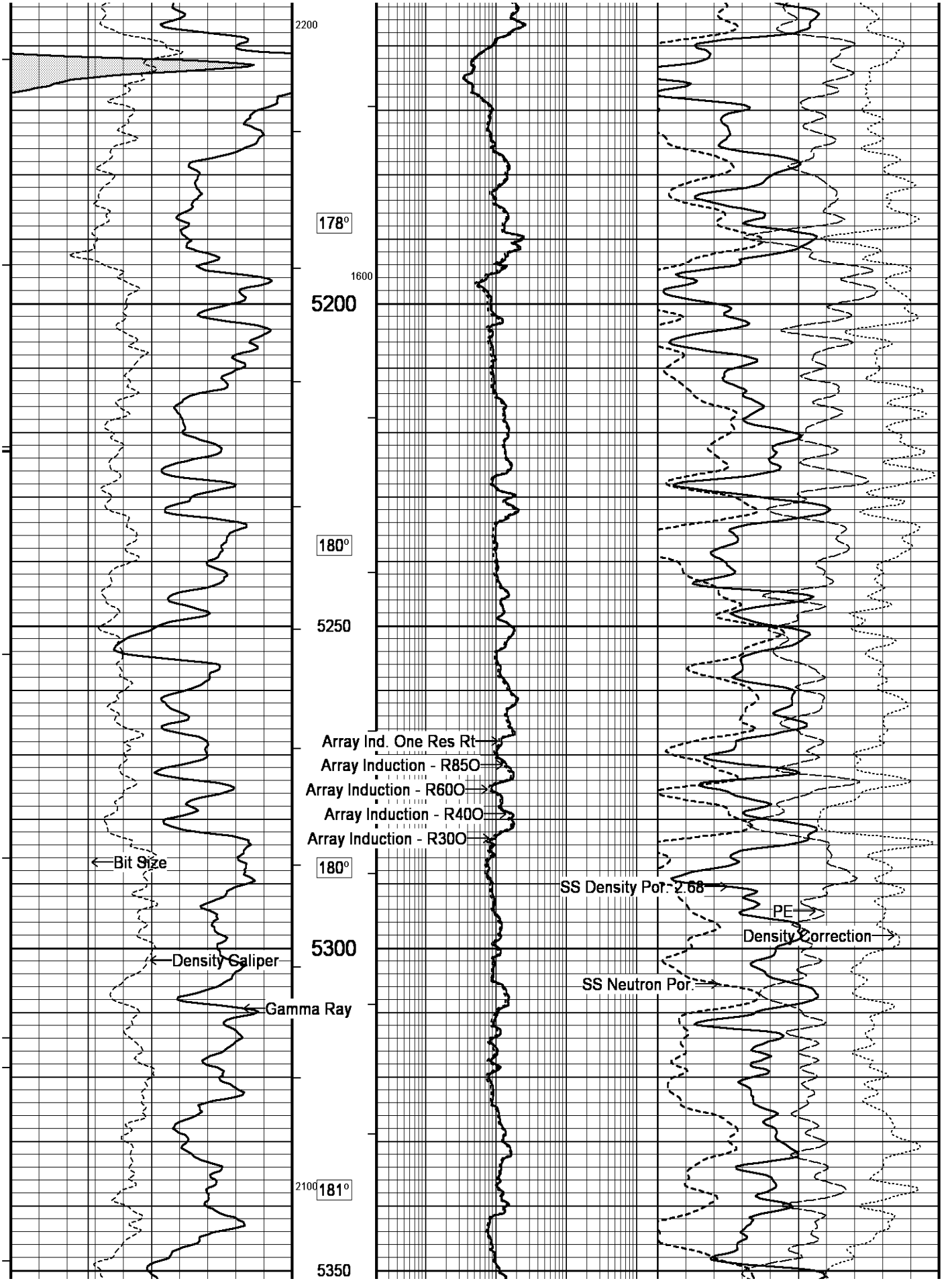

165°
2700
4200
2000
166°
4250
167°
4300
167°
4350

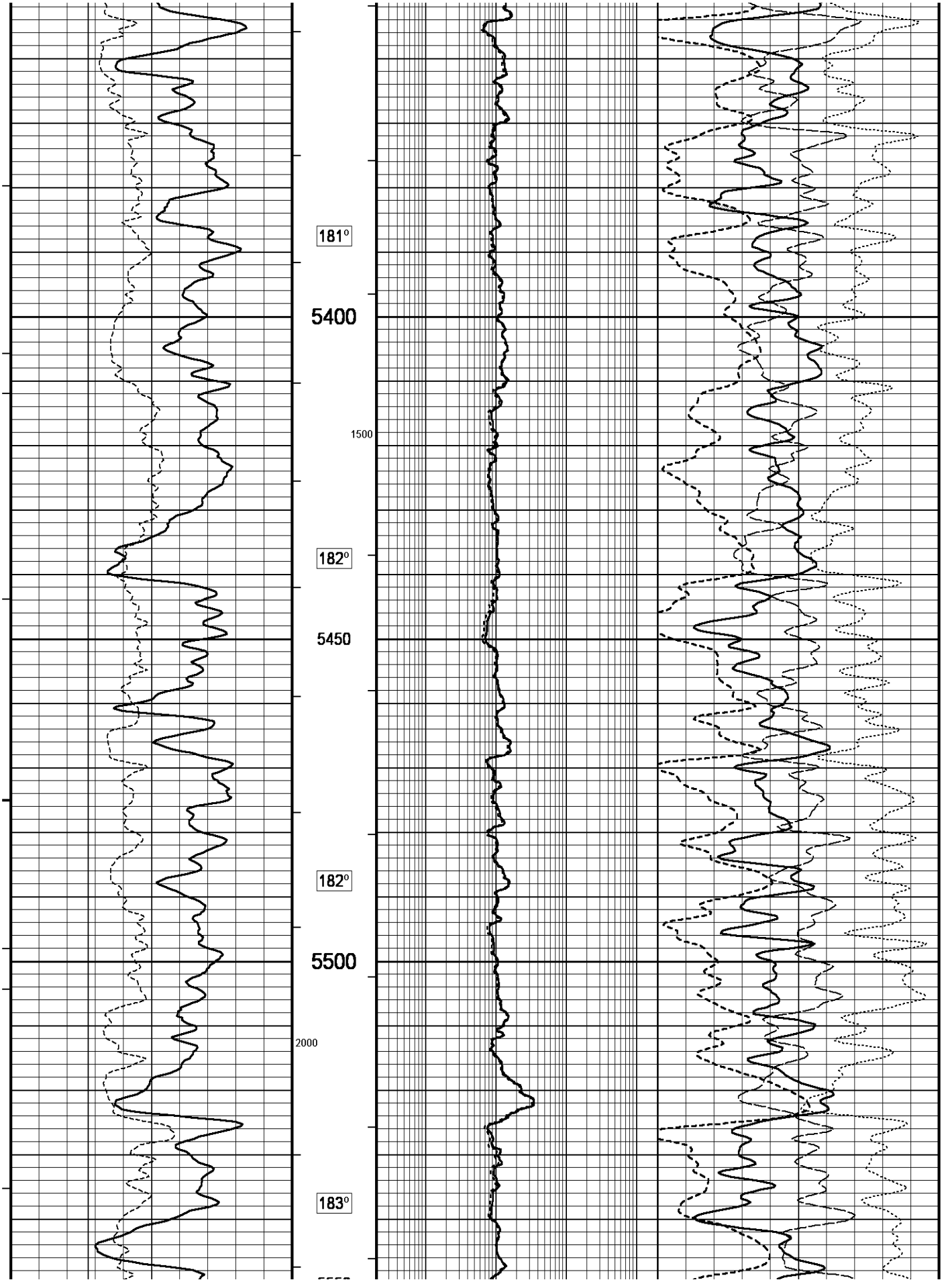

2600
168°
4400
169°
4450
1900
Array Ind. One Res Rt
Array Induction - R85O
169°
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
4500
Bit Size
SS Density Por. 2.68
PE
Density Correction
Density Caliper
SS Neutron Por.
Gamma Ray
170°
4550
2500

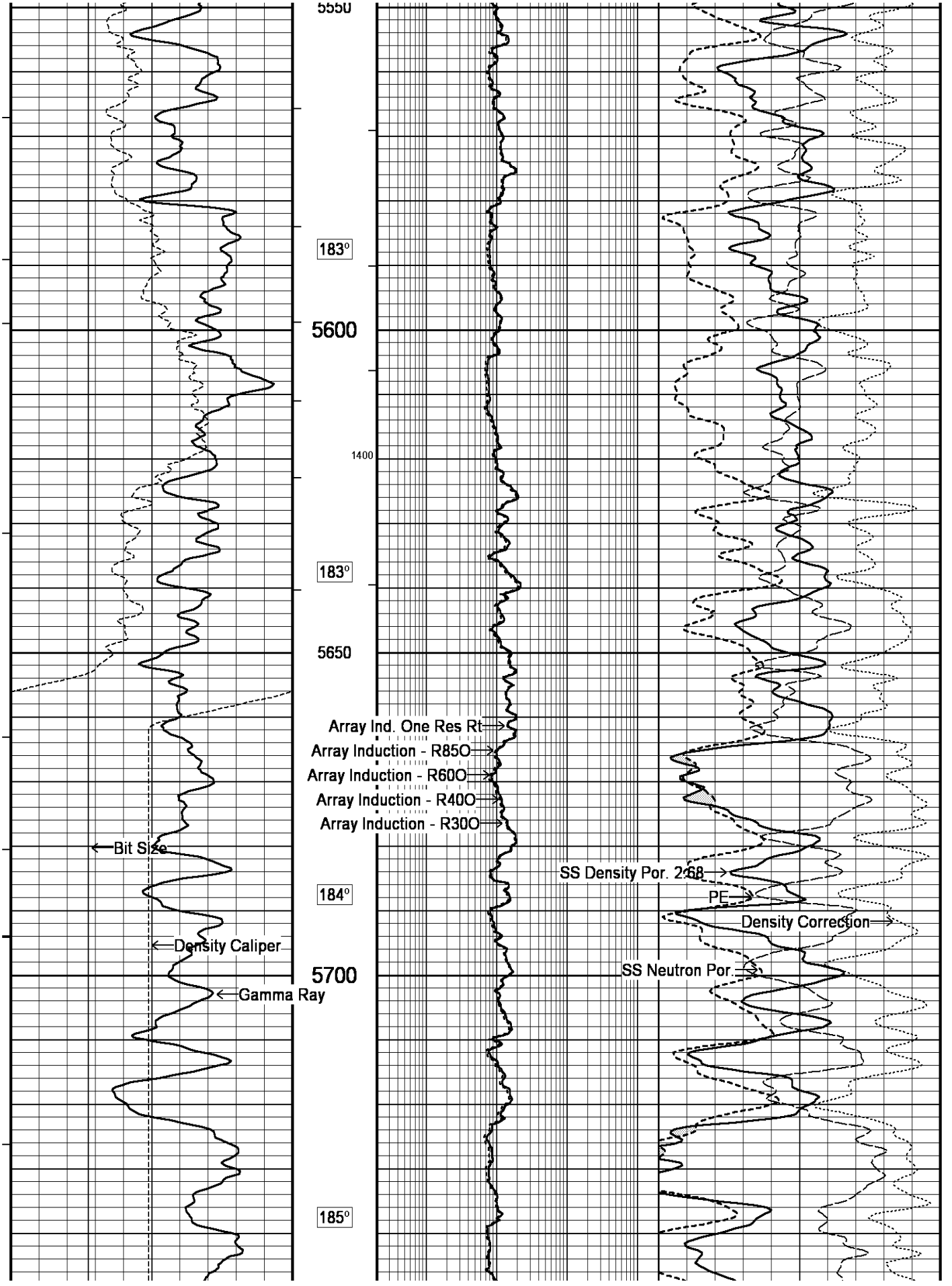

170°
4600
171°
4650
171°
1800
4700
173°
4750

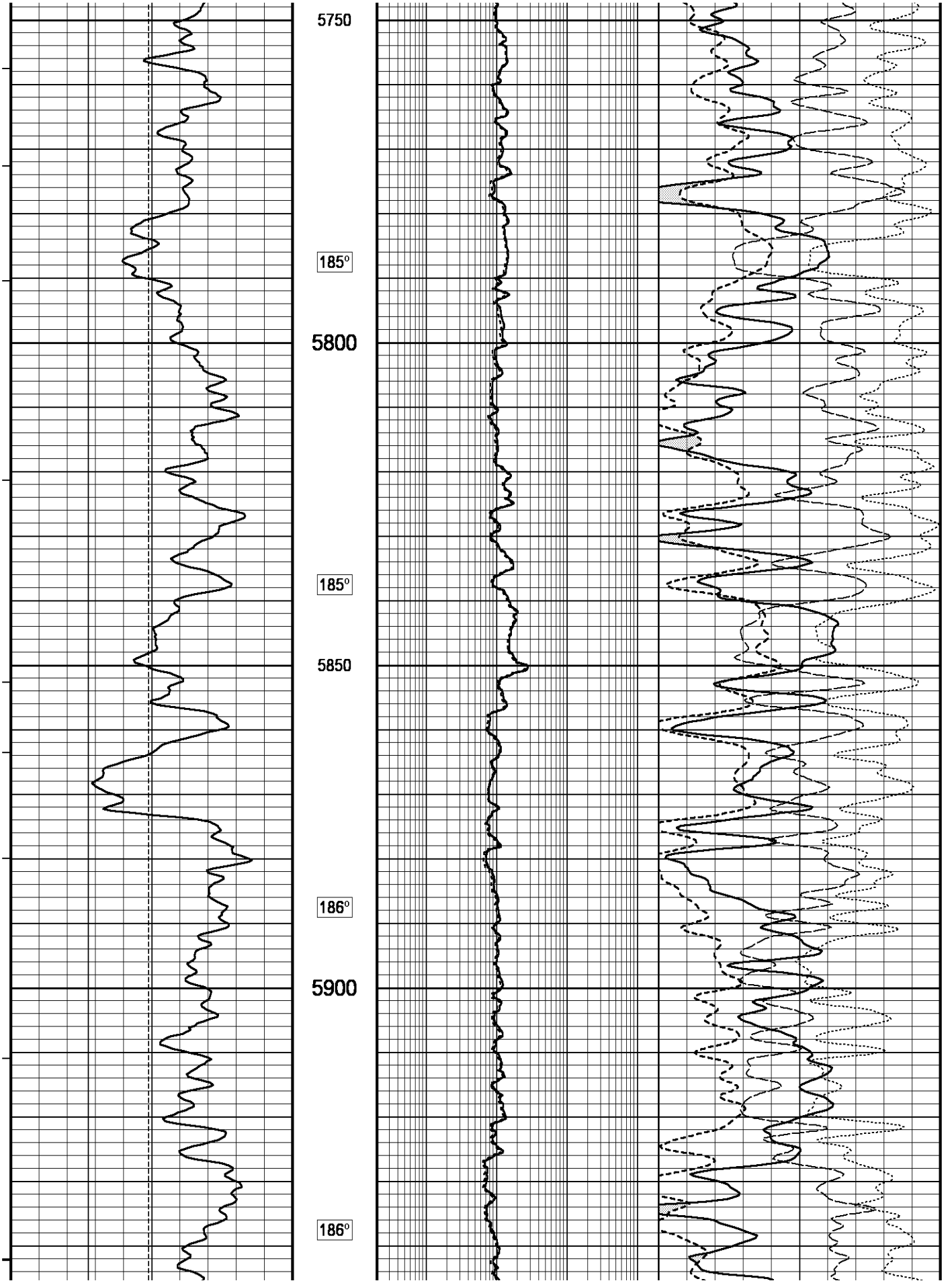

2400
173°
4800
174°
4850
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
175°
Array Induction - R30O
Bit Size
4900
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Gamma Ray
176°
1700
4950

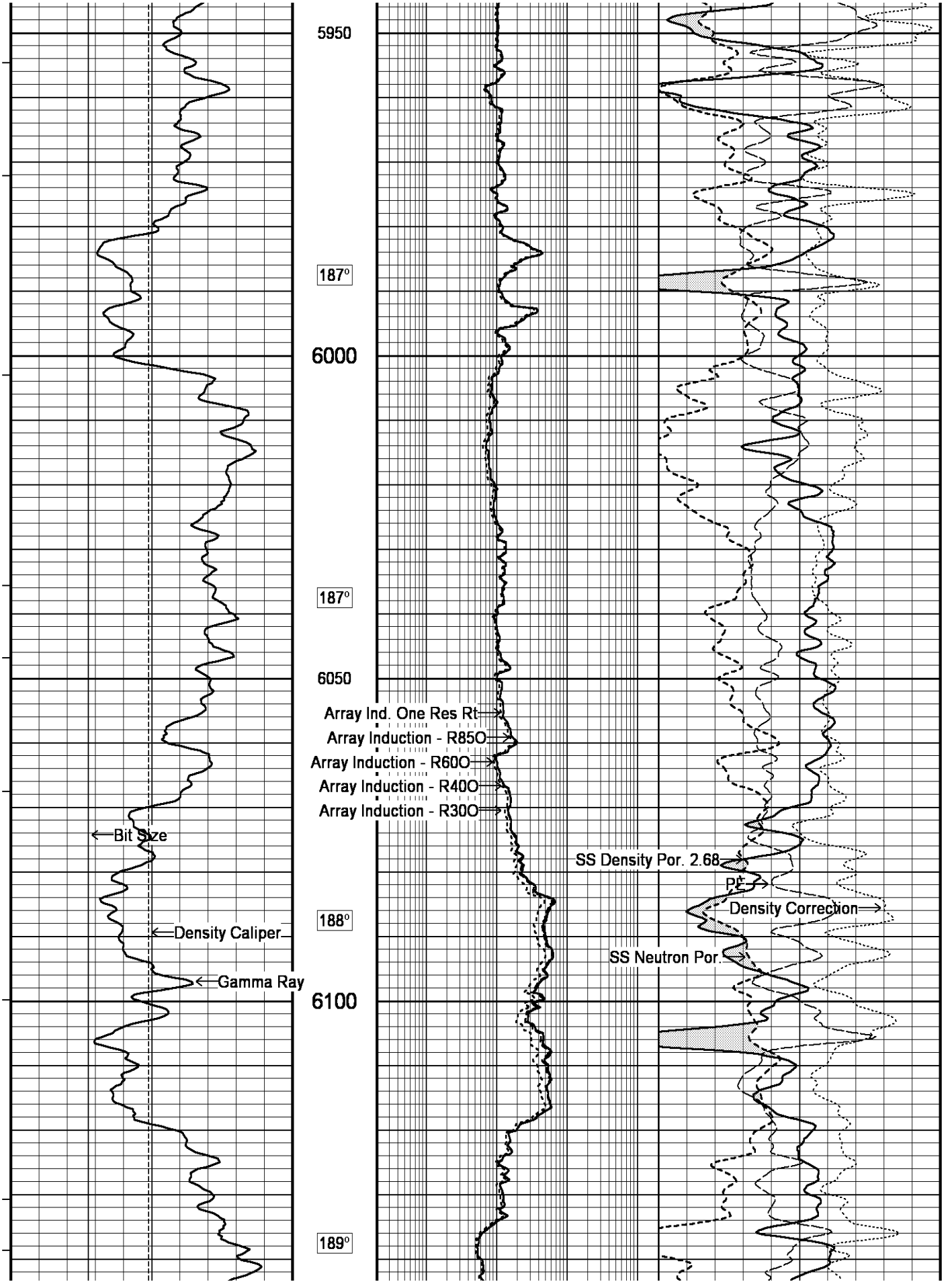

2300
176°
5000
177°
5050
177°
5100
178°
5150

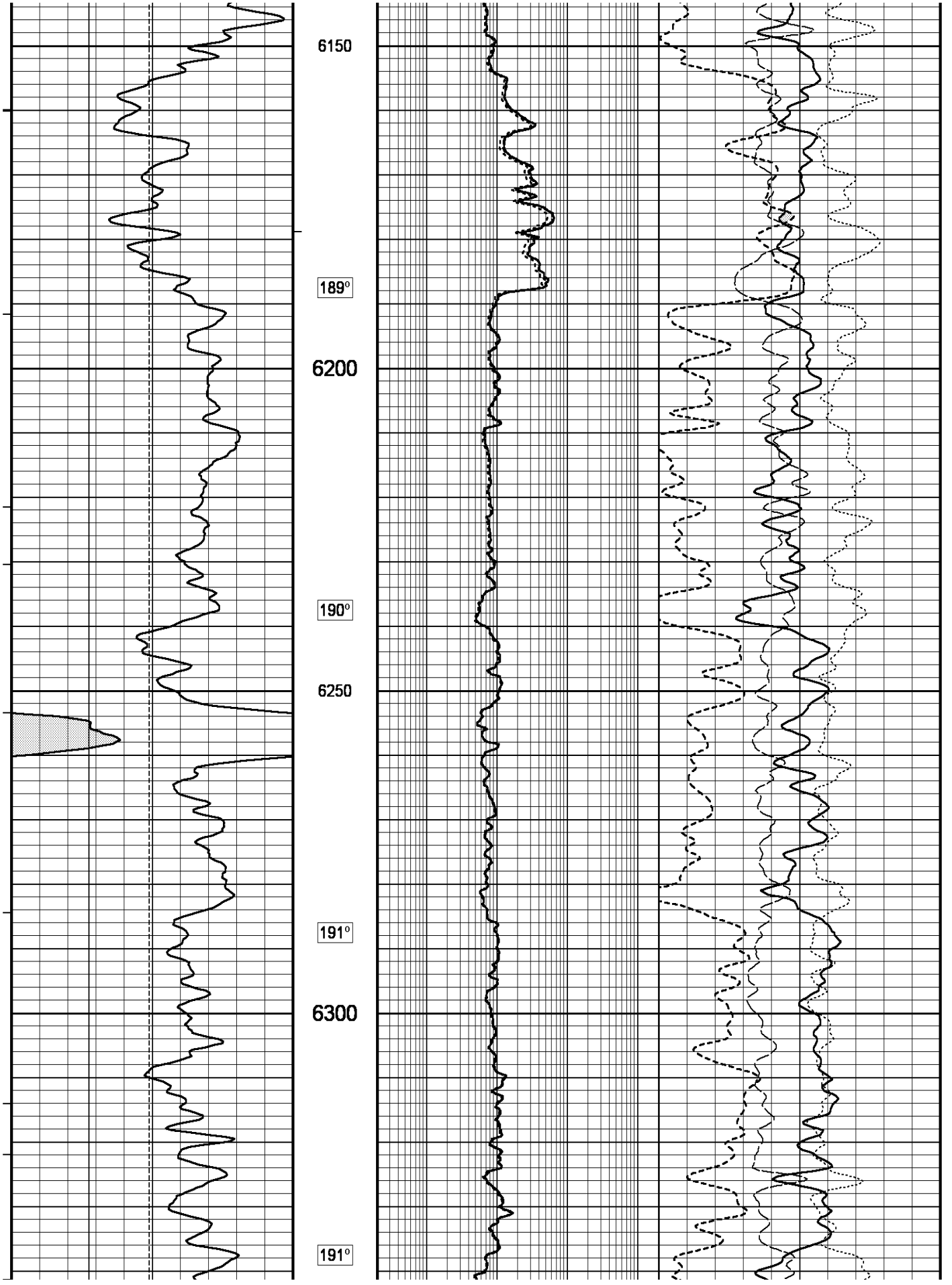

2200
178°
1600
5200
180°
5250
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
180°
SS Density Por. 2.68
PE
Density Correction
5300
Density Caliper
SS Neutron Por.
Gamma Ray
2100
181°
5350

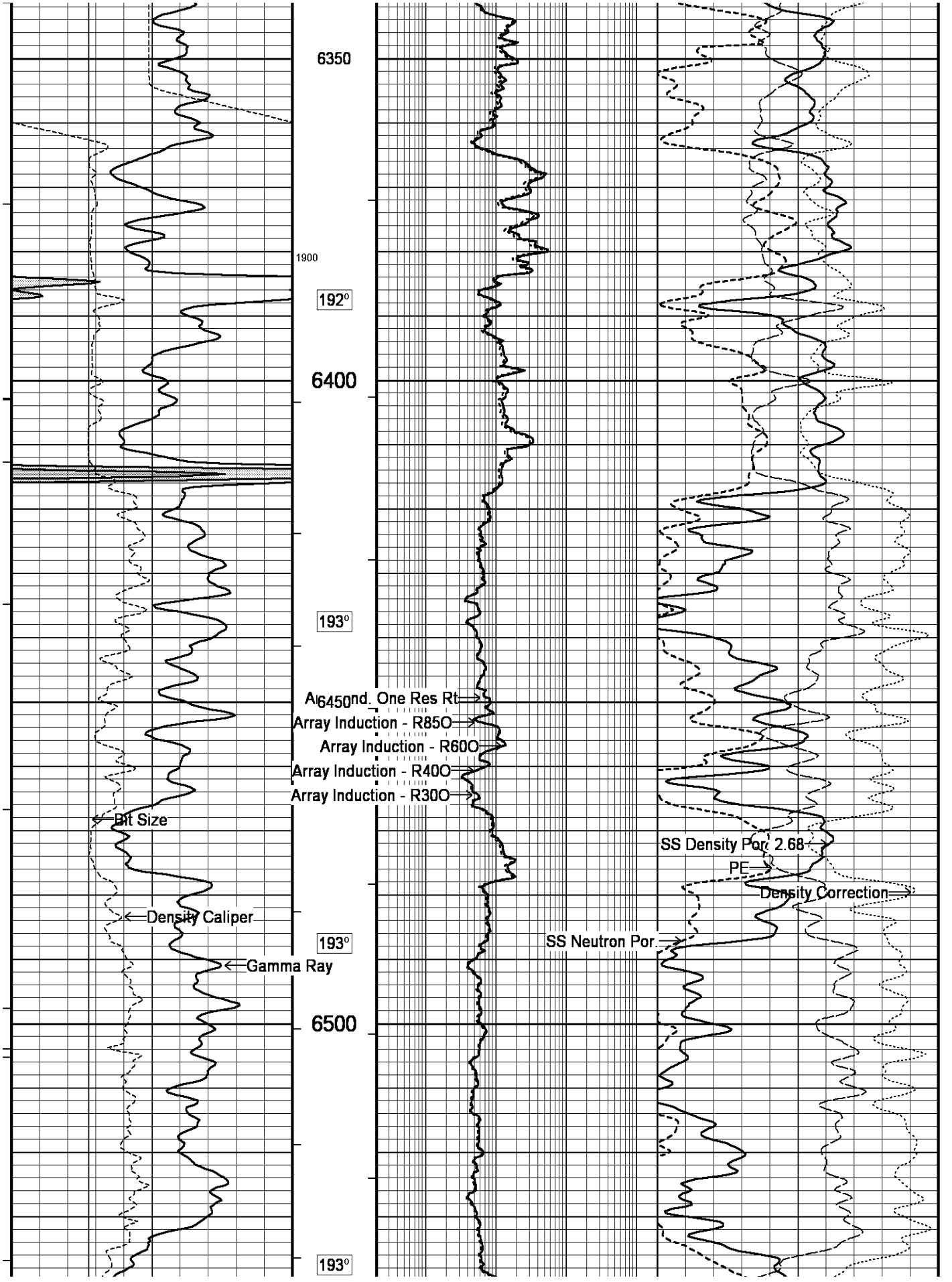

181°
5400
1500
182°
5450
182°
5500
2000
183°

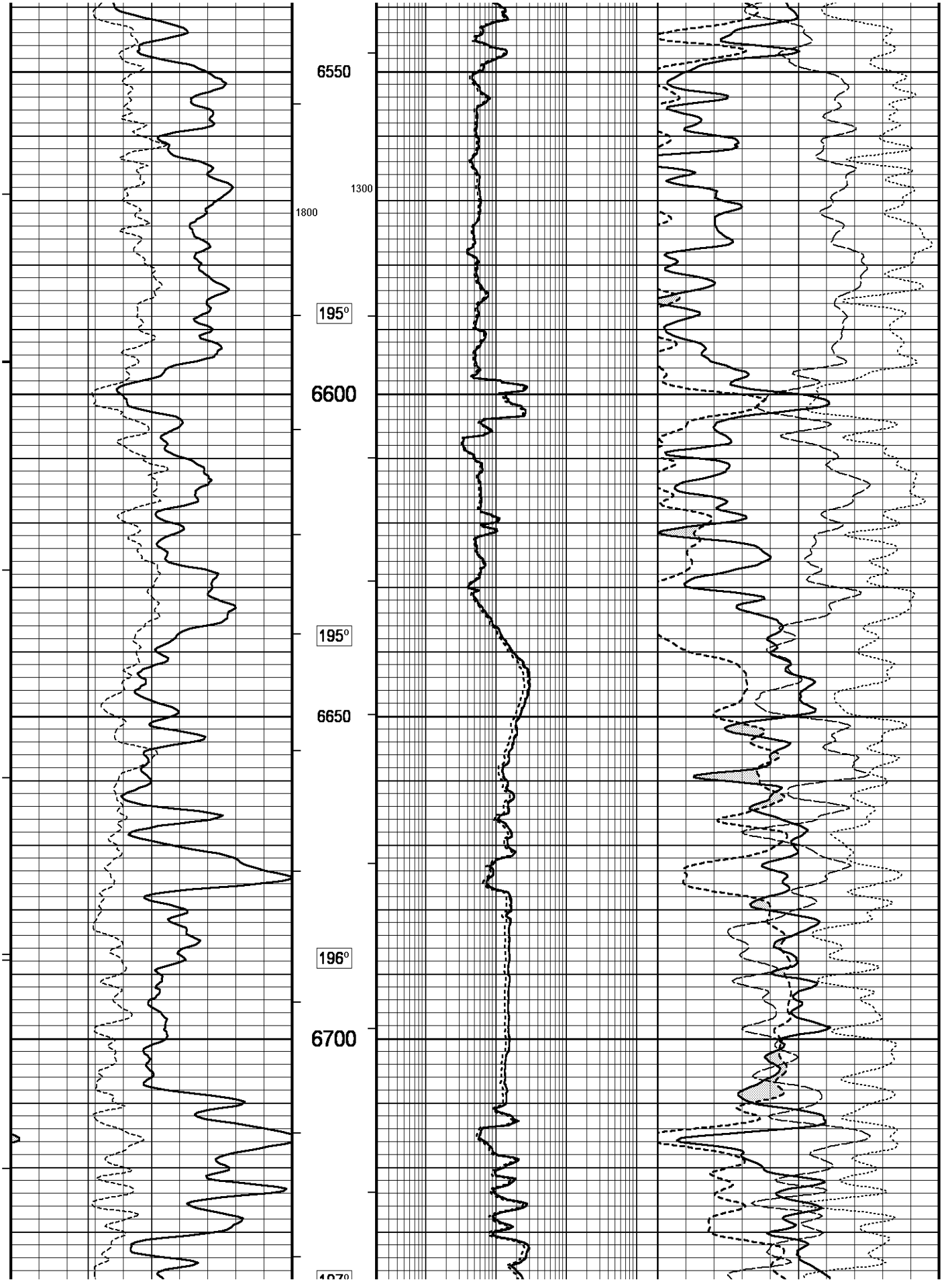

5550
183°
5600
1400
183°
5650
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
184°
Density Caliper
5700
Gamma Ray
185°
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.

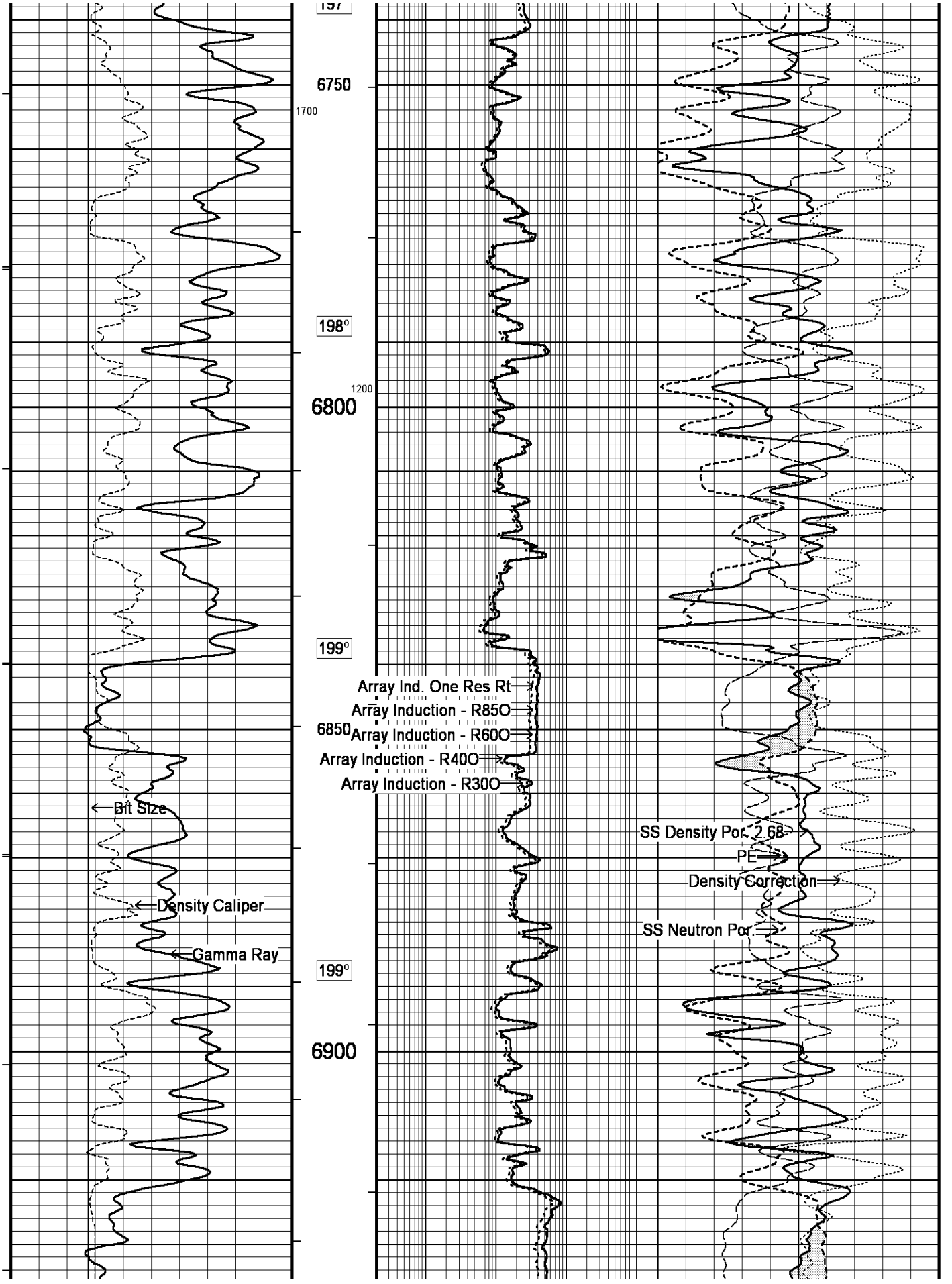

5750
185°
5800
185°
5850
186°
5900
186°

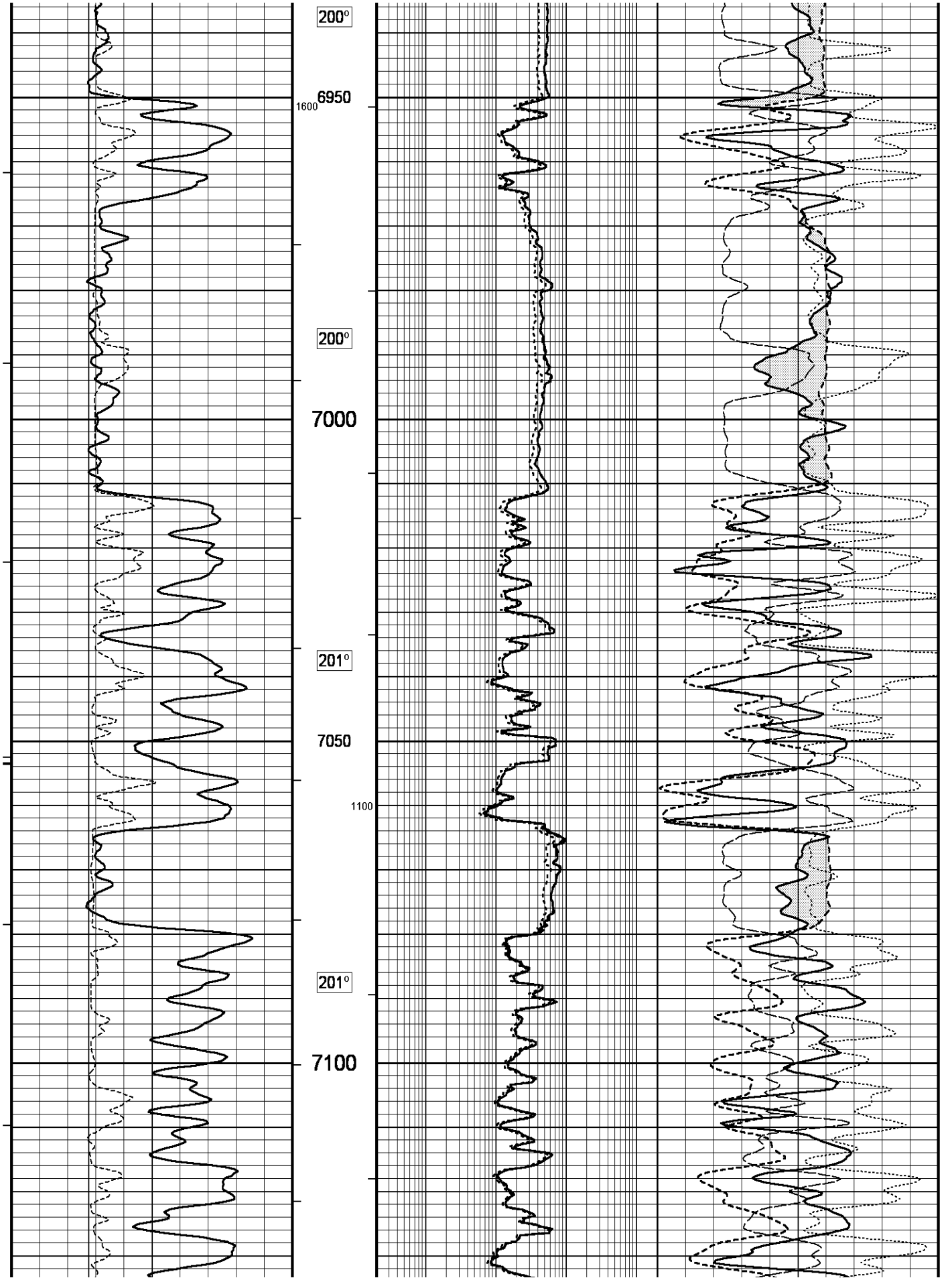

5950
187°
6000
187°
6050
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
SS Density Por. 2.68
PE
Density Correction
188°
Density Caliper
SS Neutron Por.
Gamma Ray
6100
189°

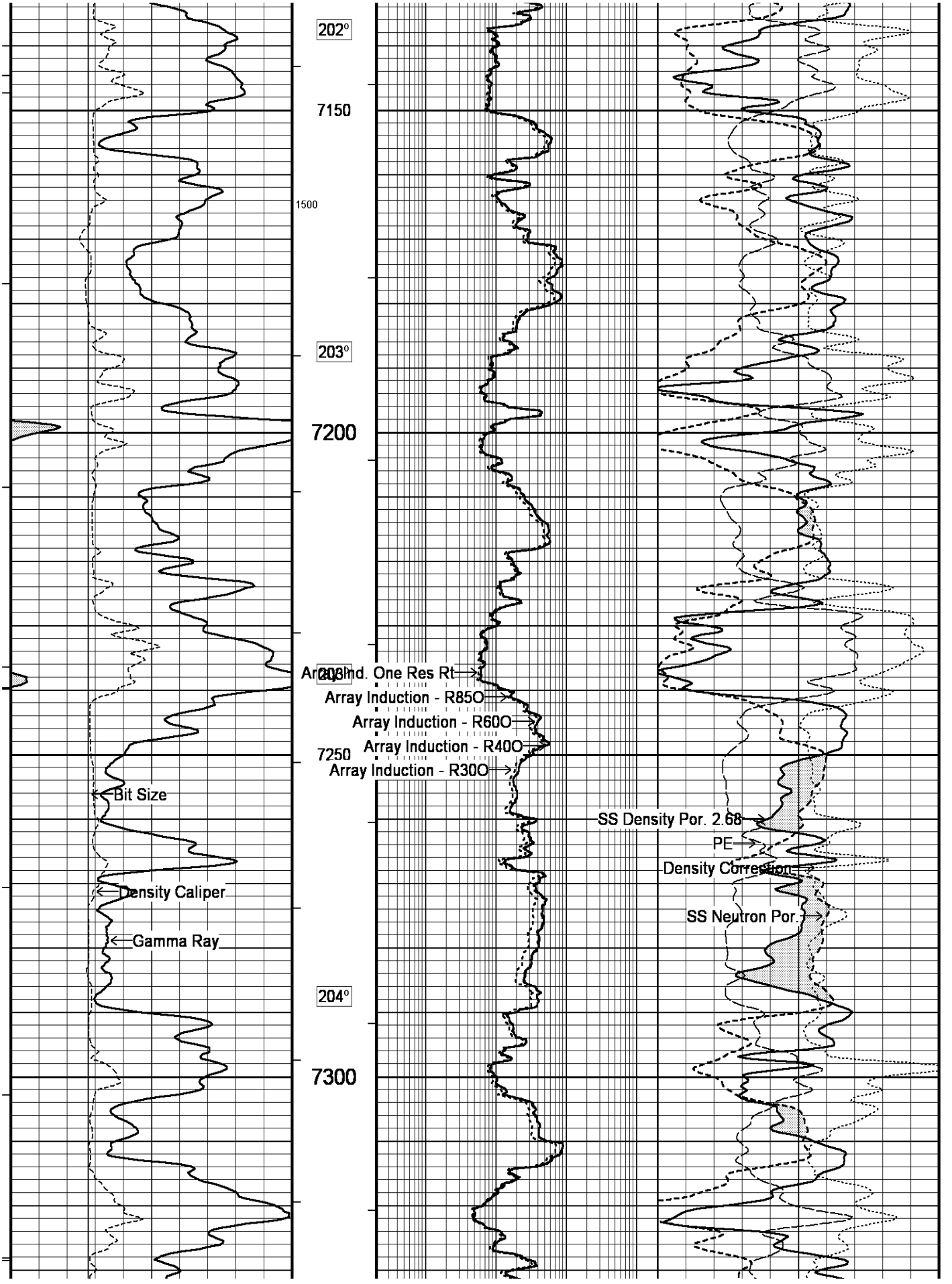

6150
189°
6200
190°
6250
191°
6300
191°

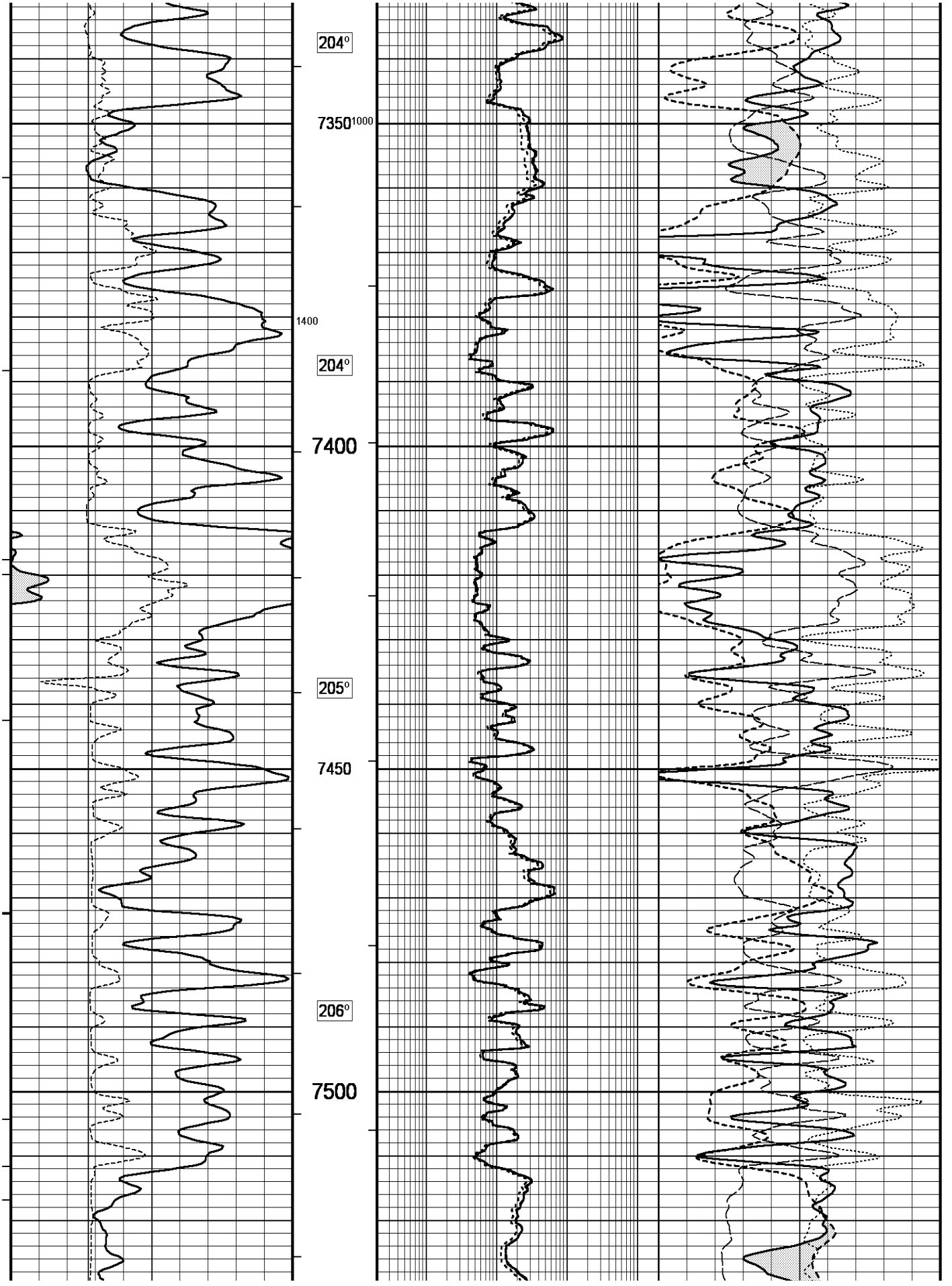

6350
1900
192°
6400
193°
6450
Array Induction - One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Density Caliper
193°
Gamma Ray
6500
193°
SS Density Por 2.68
PE
Density Correction
SS Neutron Por.

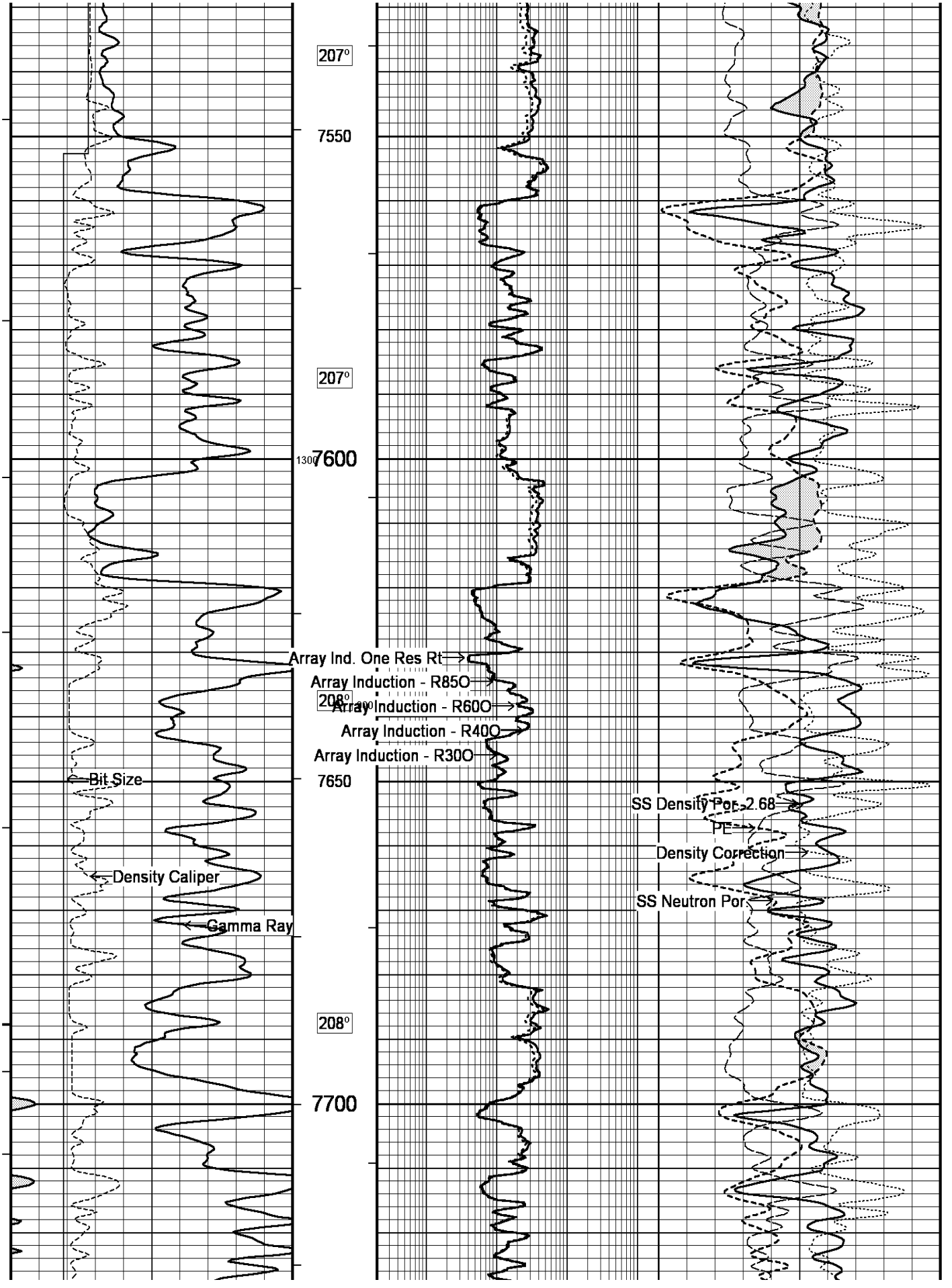

6550
1300
1800
195°
6600
195°
6650
196°
6700

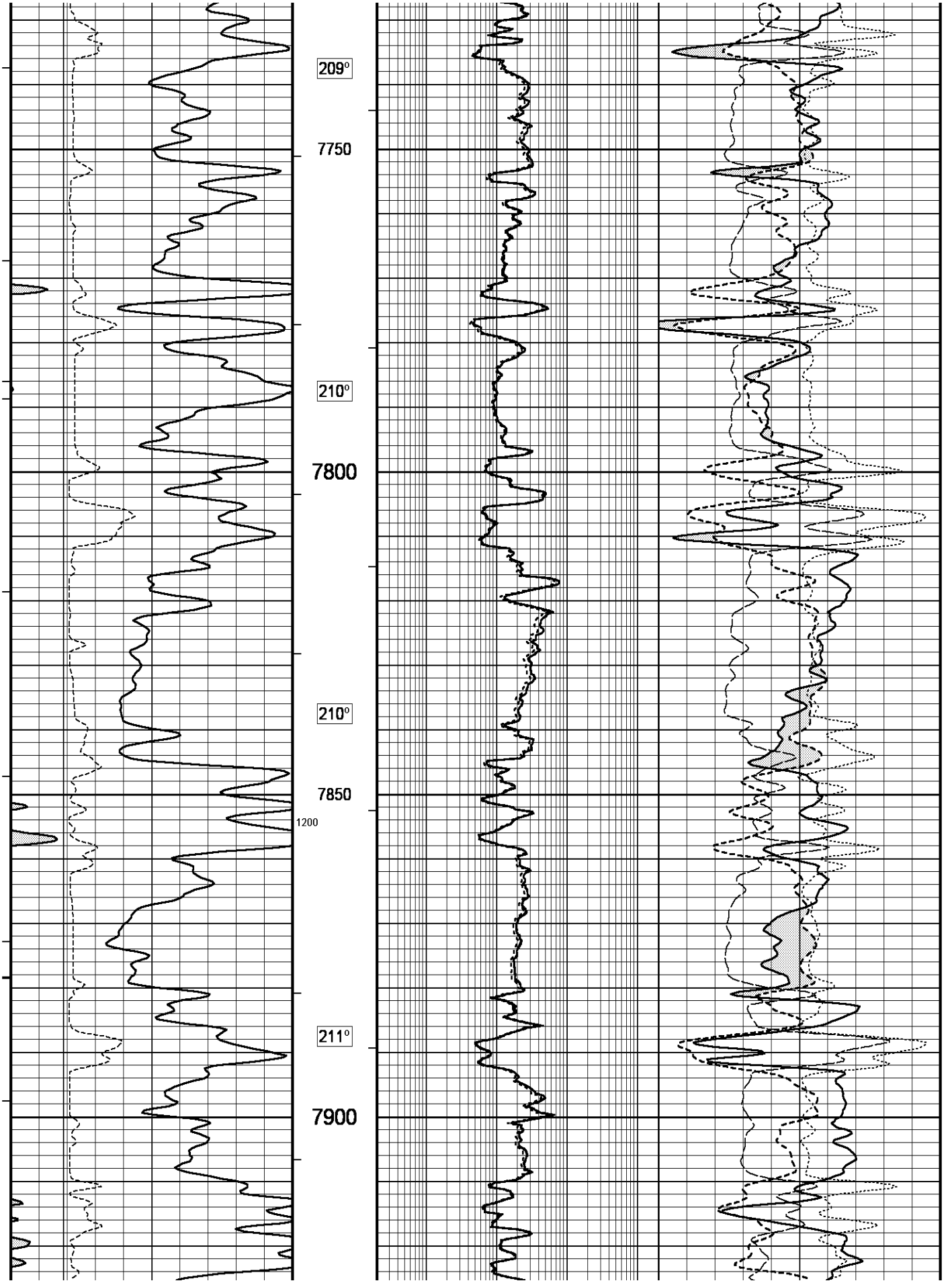

6750
1700
198°
1200
6800
199°
Array Ind. One Res Rt
Array Induction - R85O
6850
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
SS Density Por_2.68
PE
Density Correction
Density Caliper
SS Neutron Por
Gamma Ray
199°
6900

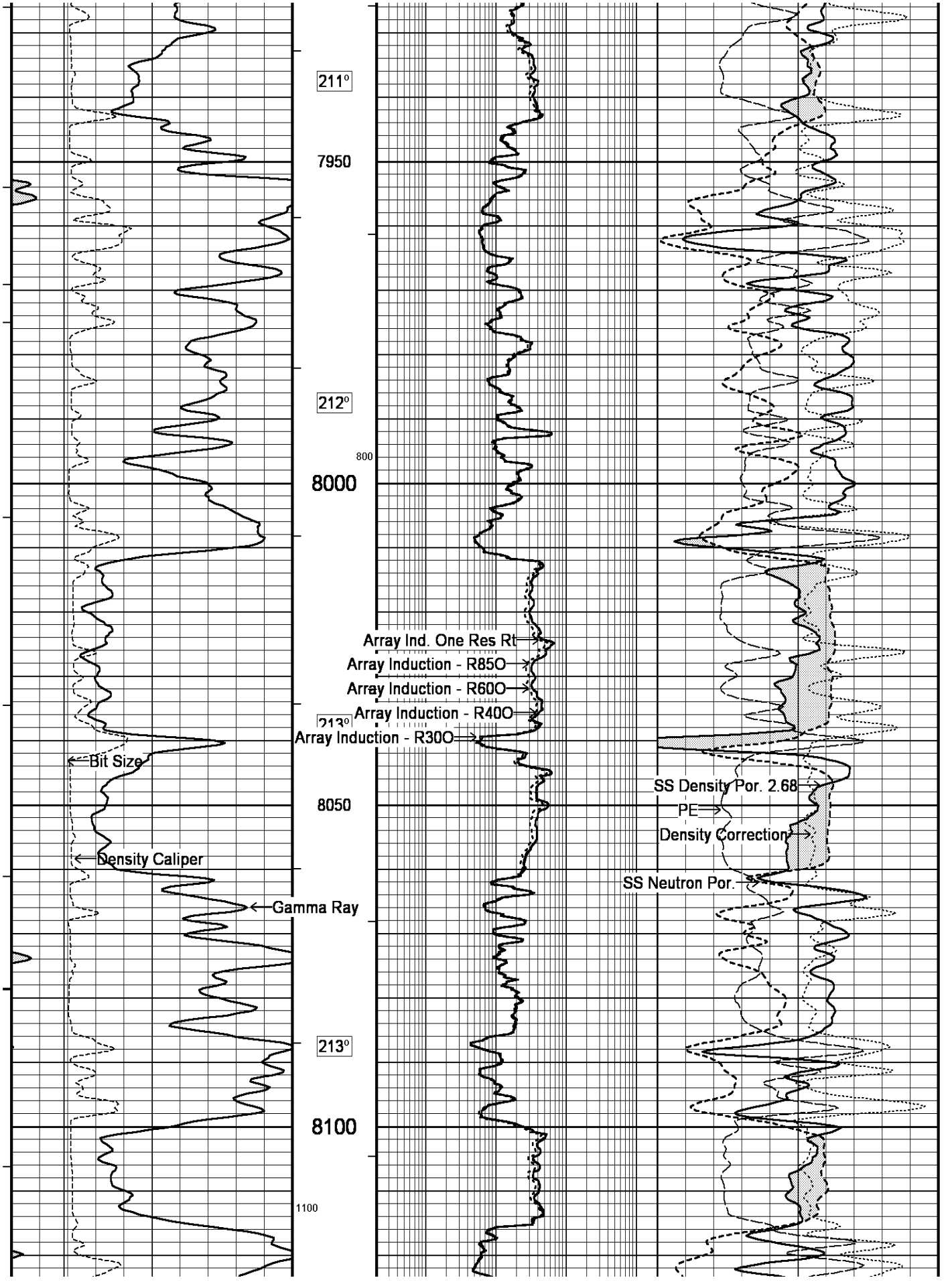

200°
6950
1600
200°
7000
201°
7050
1100
201°
7100

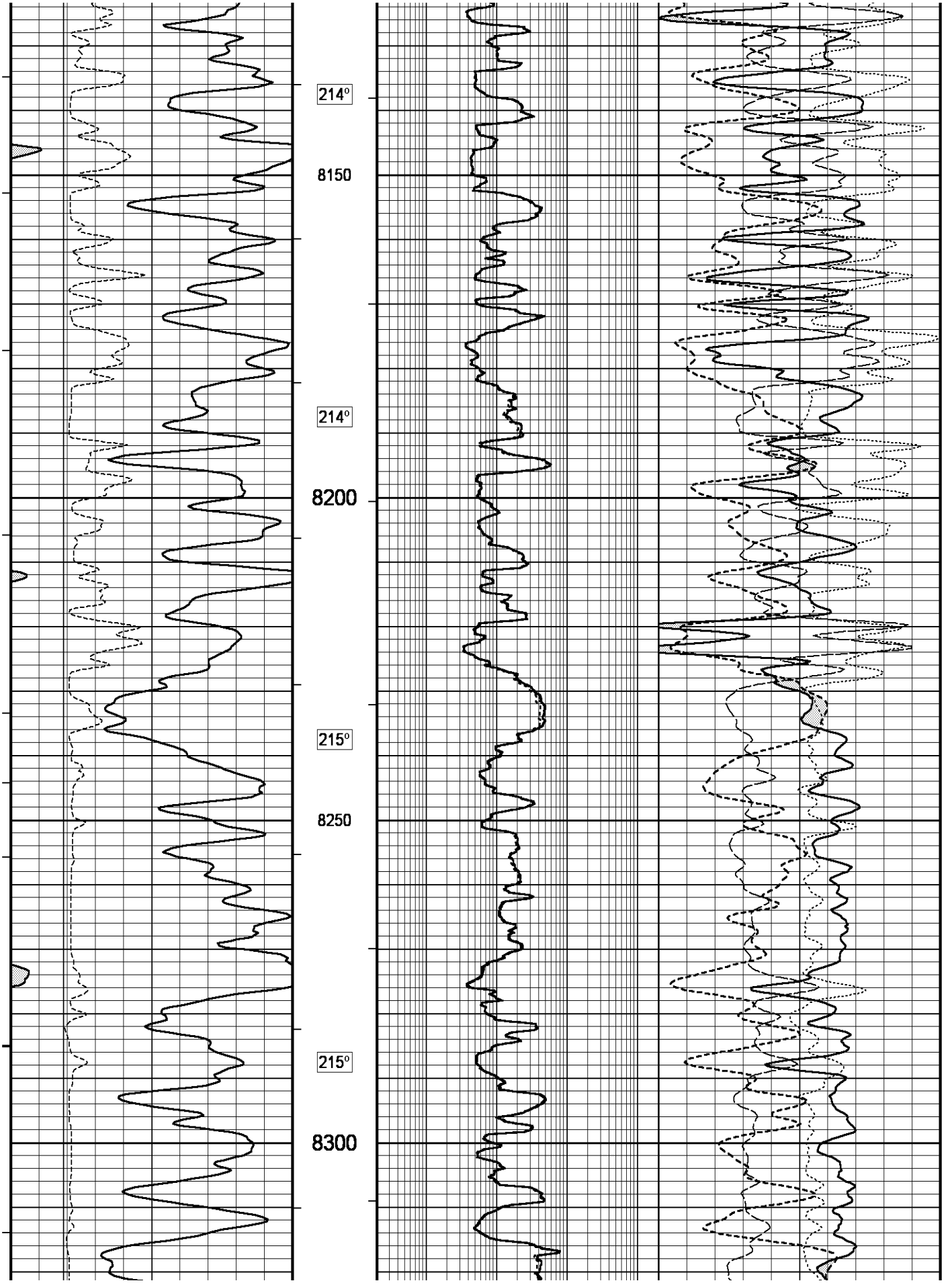

202°
7150
1500
203°
7200
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
7250
Array Induction - R30O
Bit Size
Density Caliper
Gamma Ray
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.
204°
7300

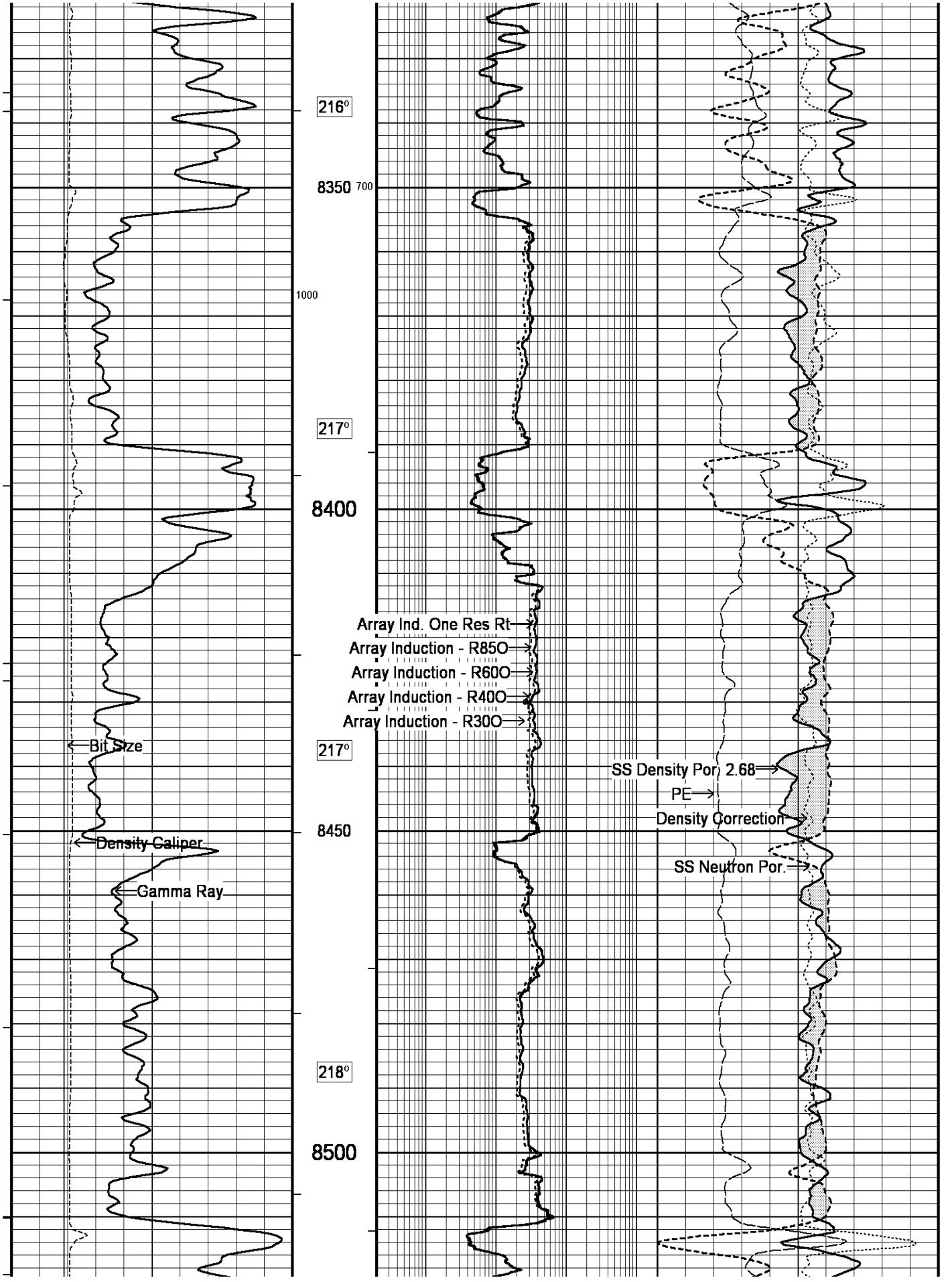

204°
7350
1000
1400
204°
7400
205°
7450
206°
7500

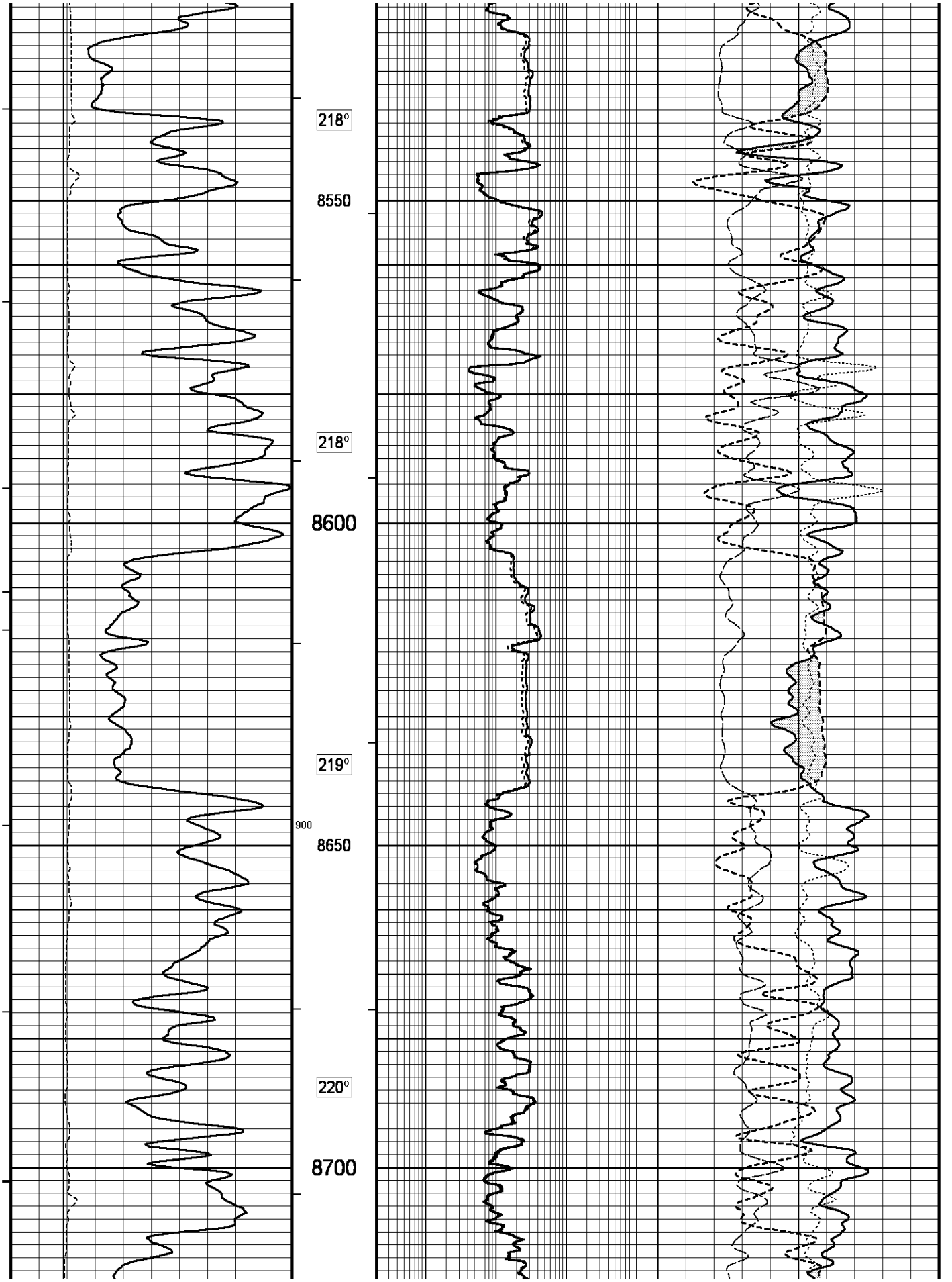

207°
7550
207°
7600
Array Ind. One Res Rt
Array Induction - R85O
208°
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
7650
SS Density Por 2.68
PE
Density Correction
Density Caliper
SS Neutron Por
Gamma Ray
208°
7700

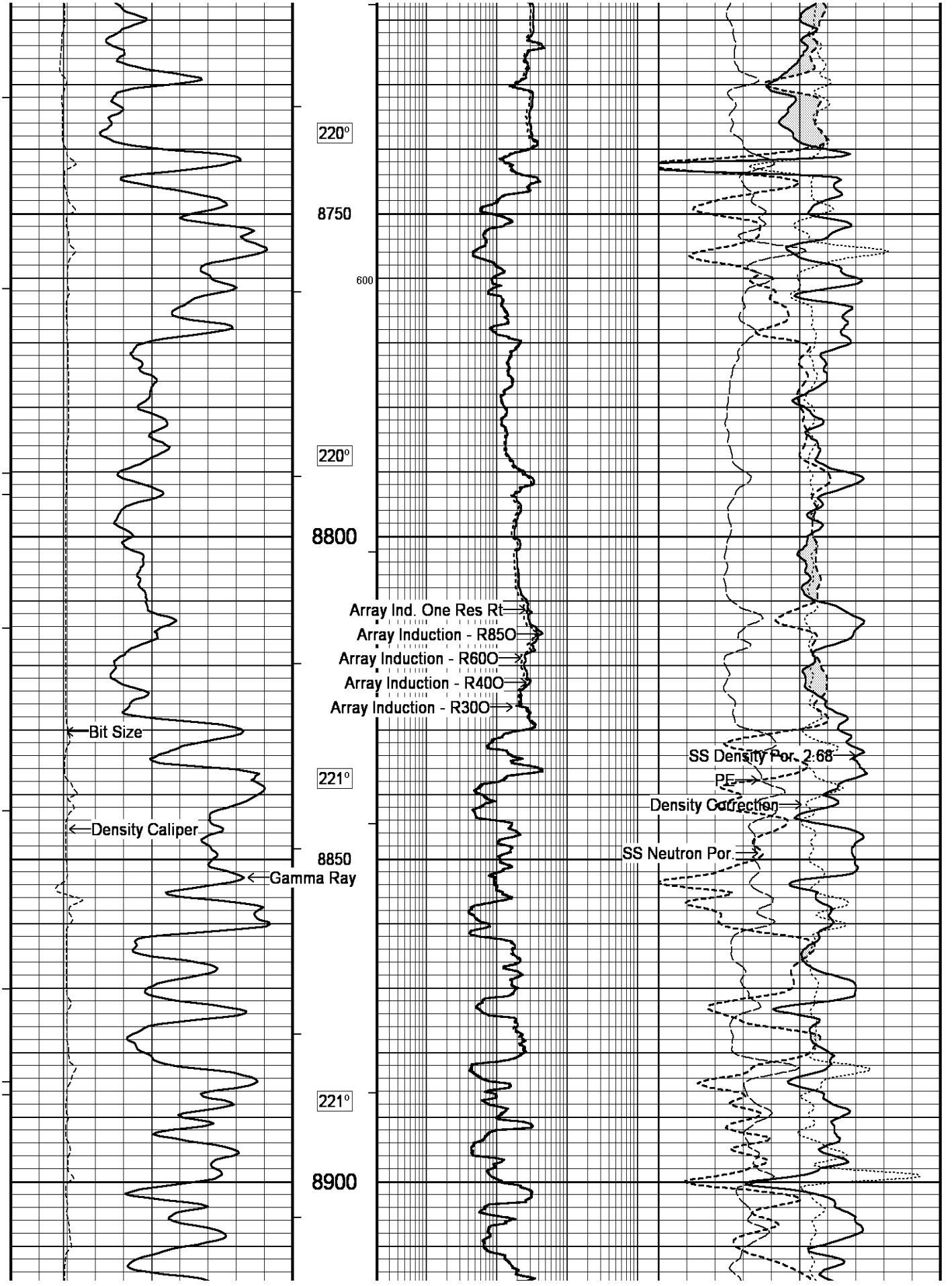

209°
7750
210°
7800
210°
7850
1200
211°
7900

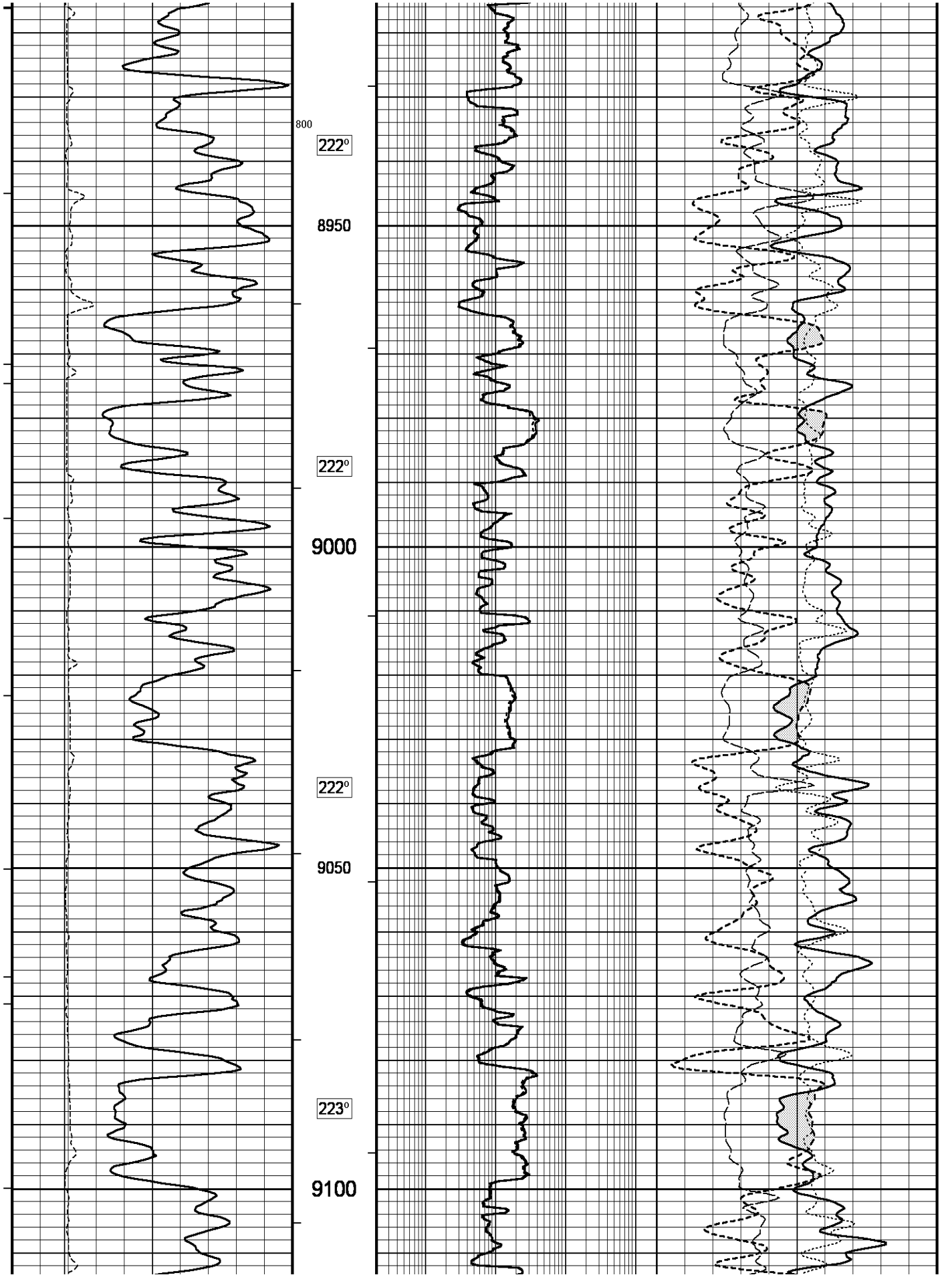

211°
7950
212°
800
8000
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
213°
Array Induction - R30O
Bit Size
8050
SS Density Por. 2.68
PE
Density Correction
Density Caliper
SS Neutron Por.
Gamma Ray
213°
8100
1100

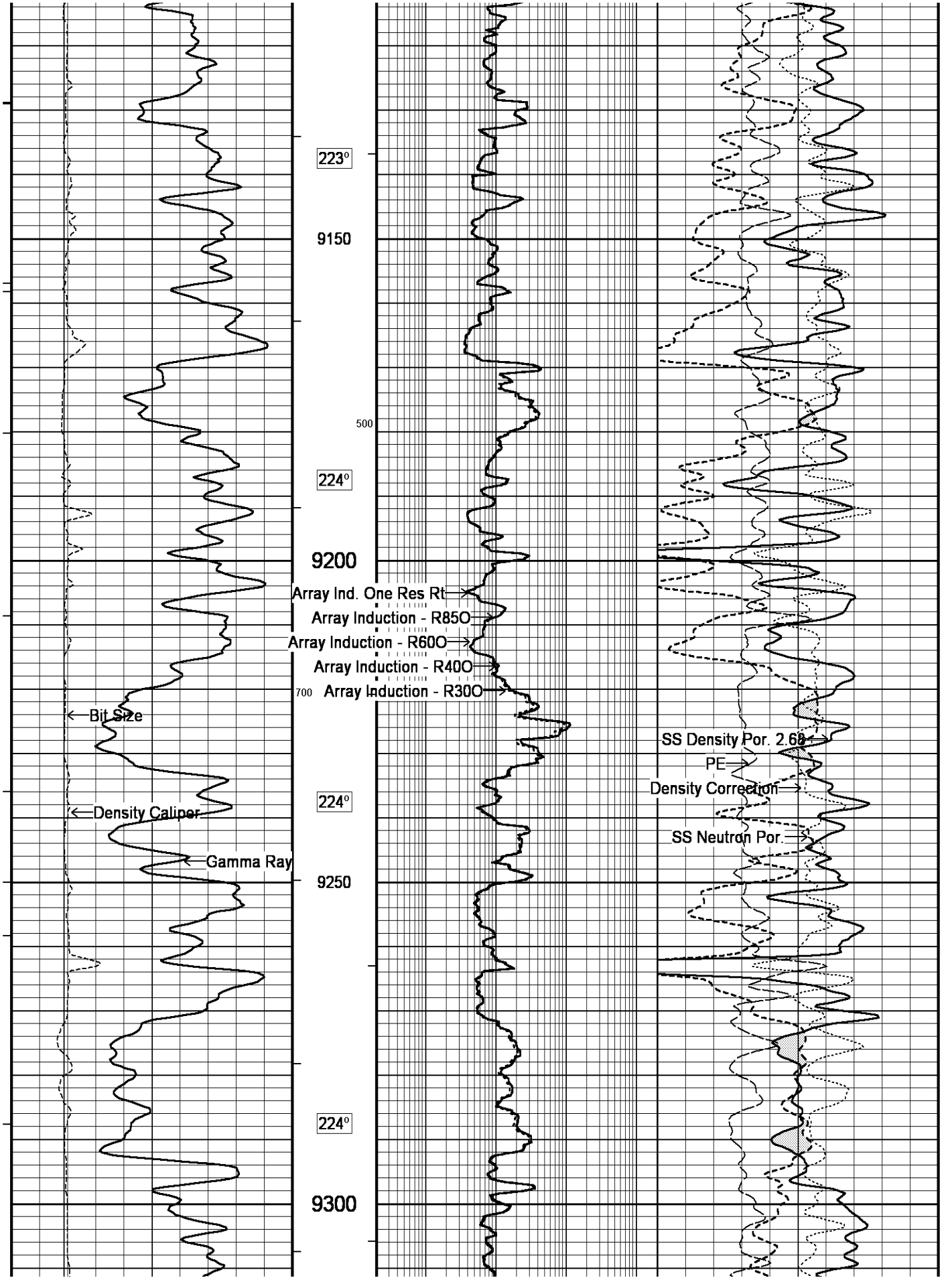

214°
8150
214°
8200
215°
8250
215°
8300

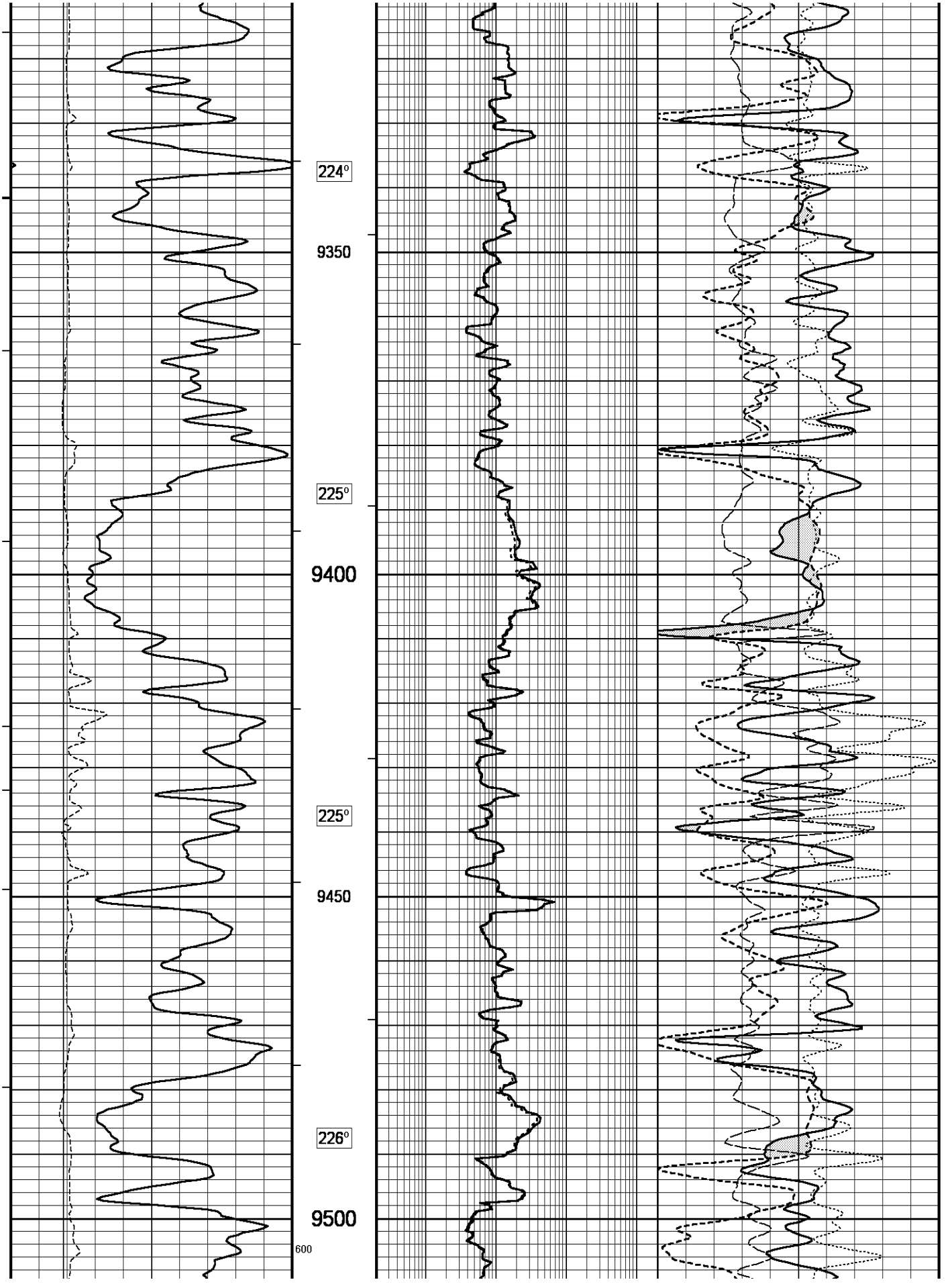

216°
8350
700
1000
217°
8400
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
217°
SS Density Por 2.68
PE
Density Correction
8450
Density Caliper
SS Neutron Por.
Gamma Ray
218°
8500

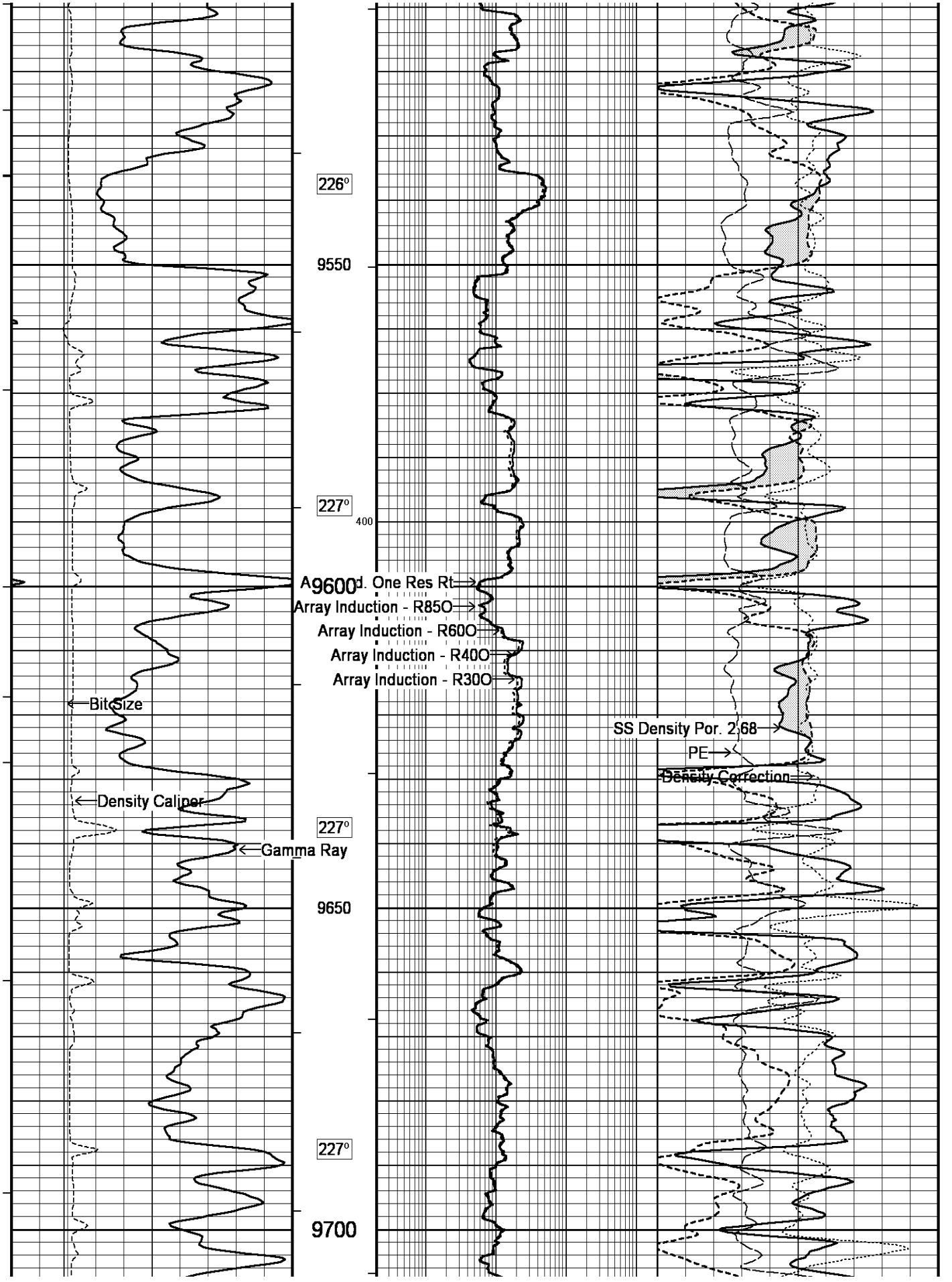

218°
8550
218°
8600
219°
900
8650
220°
8700

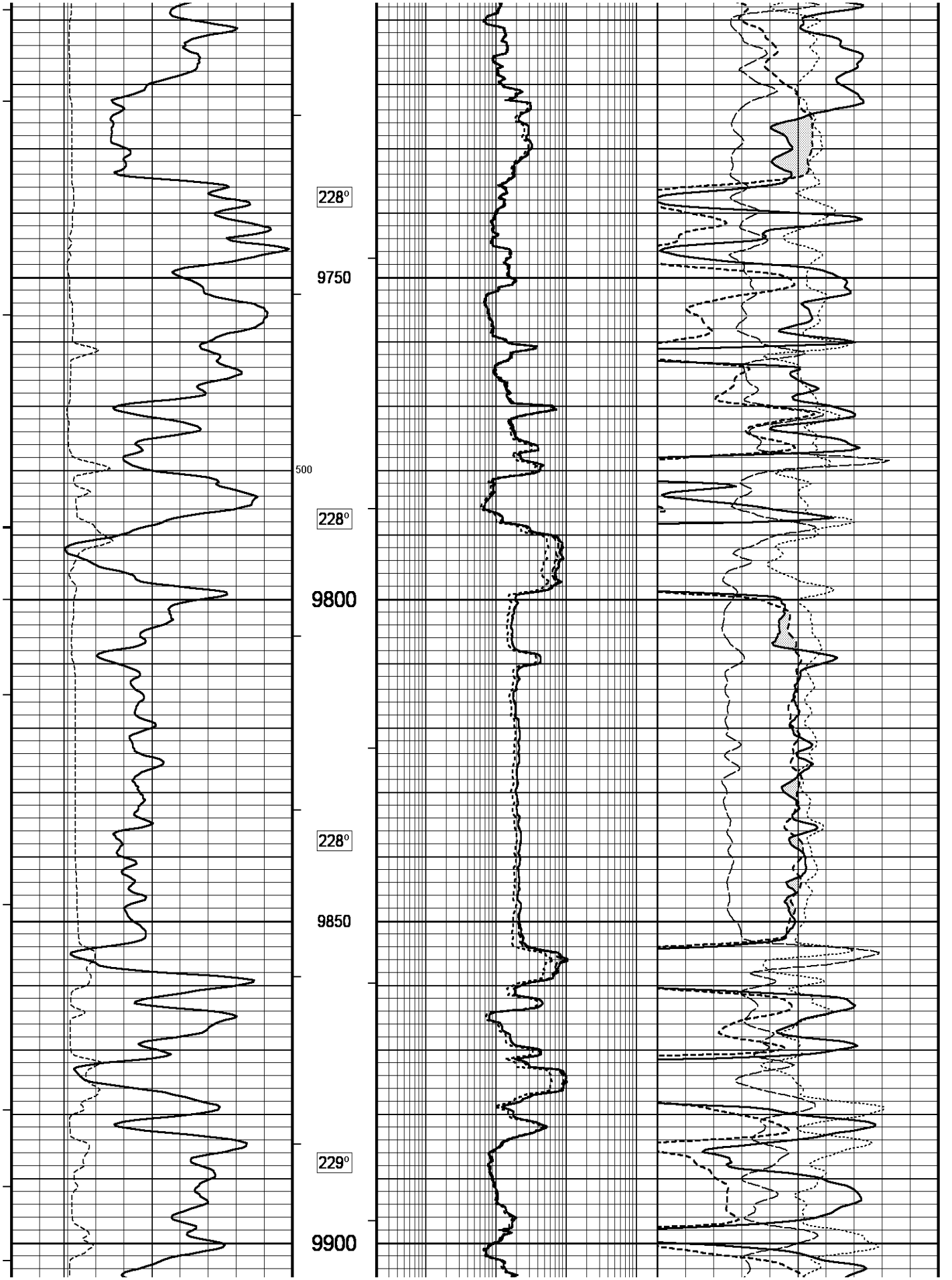

220°
8750
600
220°
8800
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
221°
SS Density Por. 2.68
PE
Density Correction
Density Caliper
8850
SS Neutron Por.
Gamma Ray
221°
8900

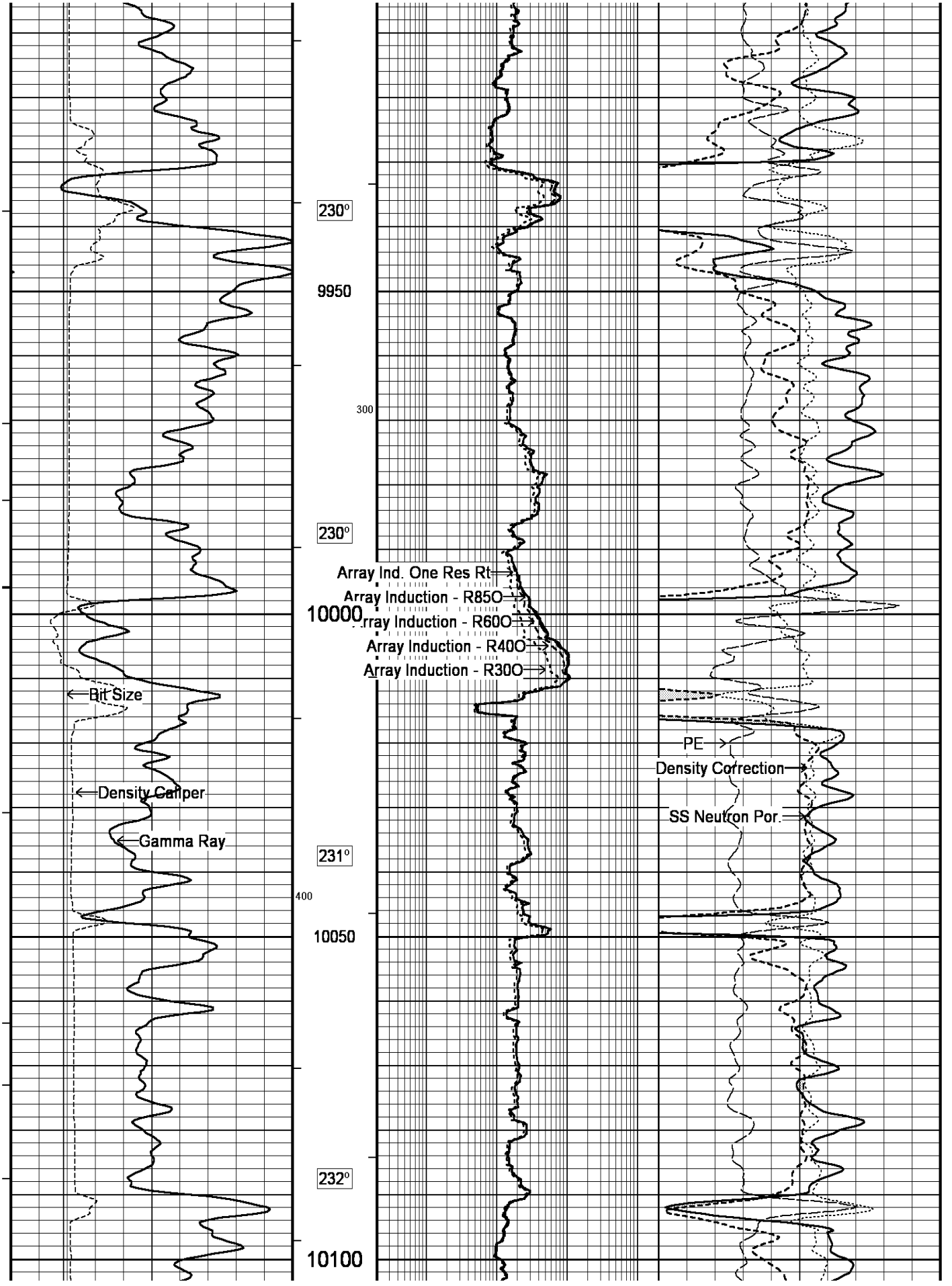

800
222°
8950
222°
9000
222°
9050
223°
9100

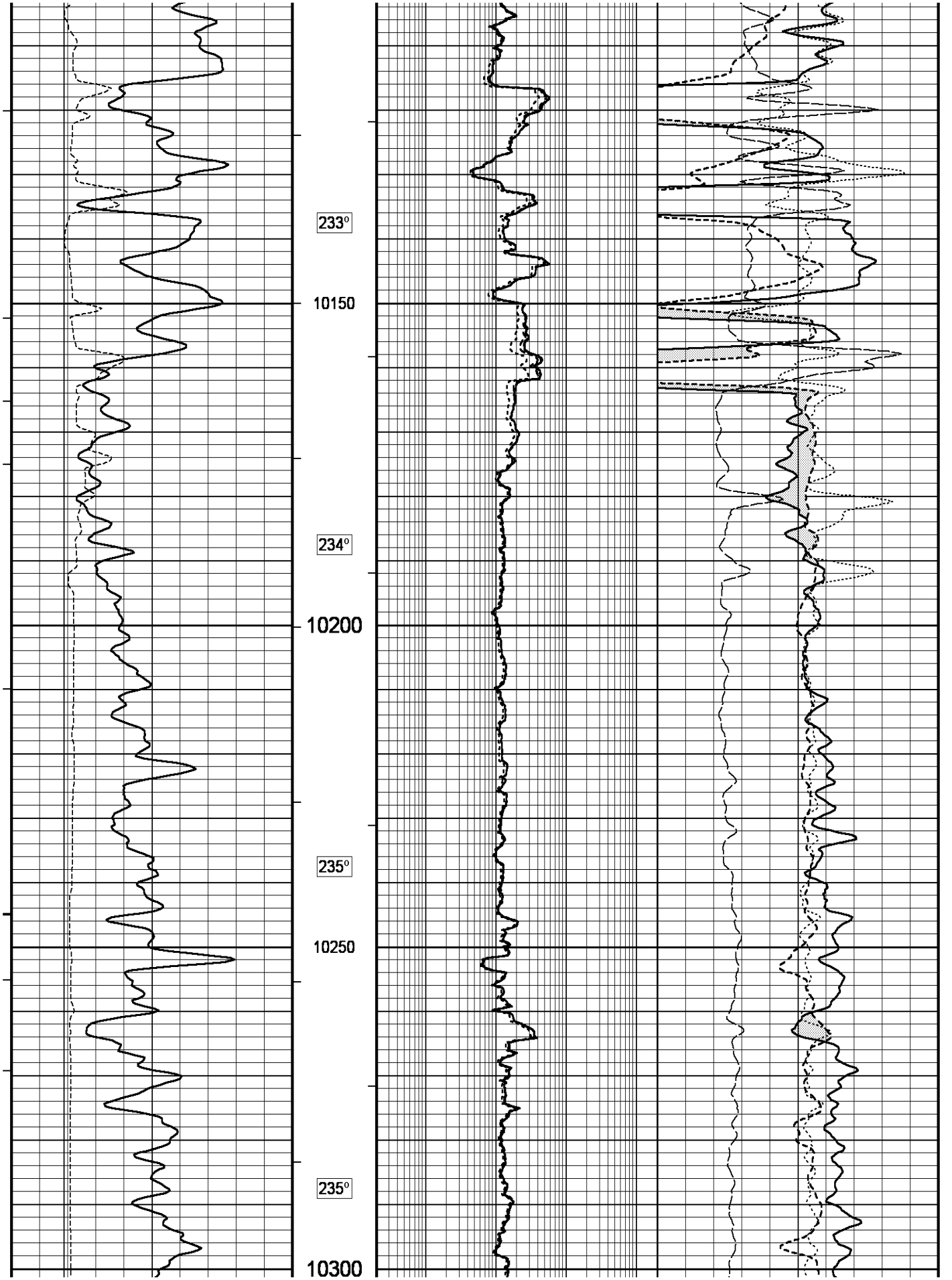

223°
9150
500
224°
9200
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
700 Array Induction - R30O
Bit Size
Density Caliper
224°
Gamma Ray
9250
224°
9300
SS Density Por. 2.65
PE
Density Correction
SS Neutron Por.

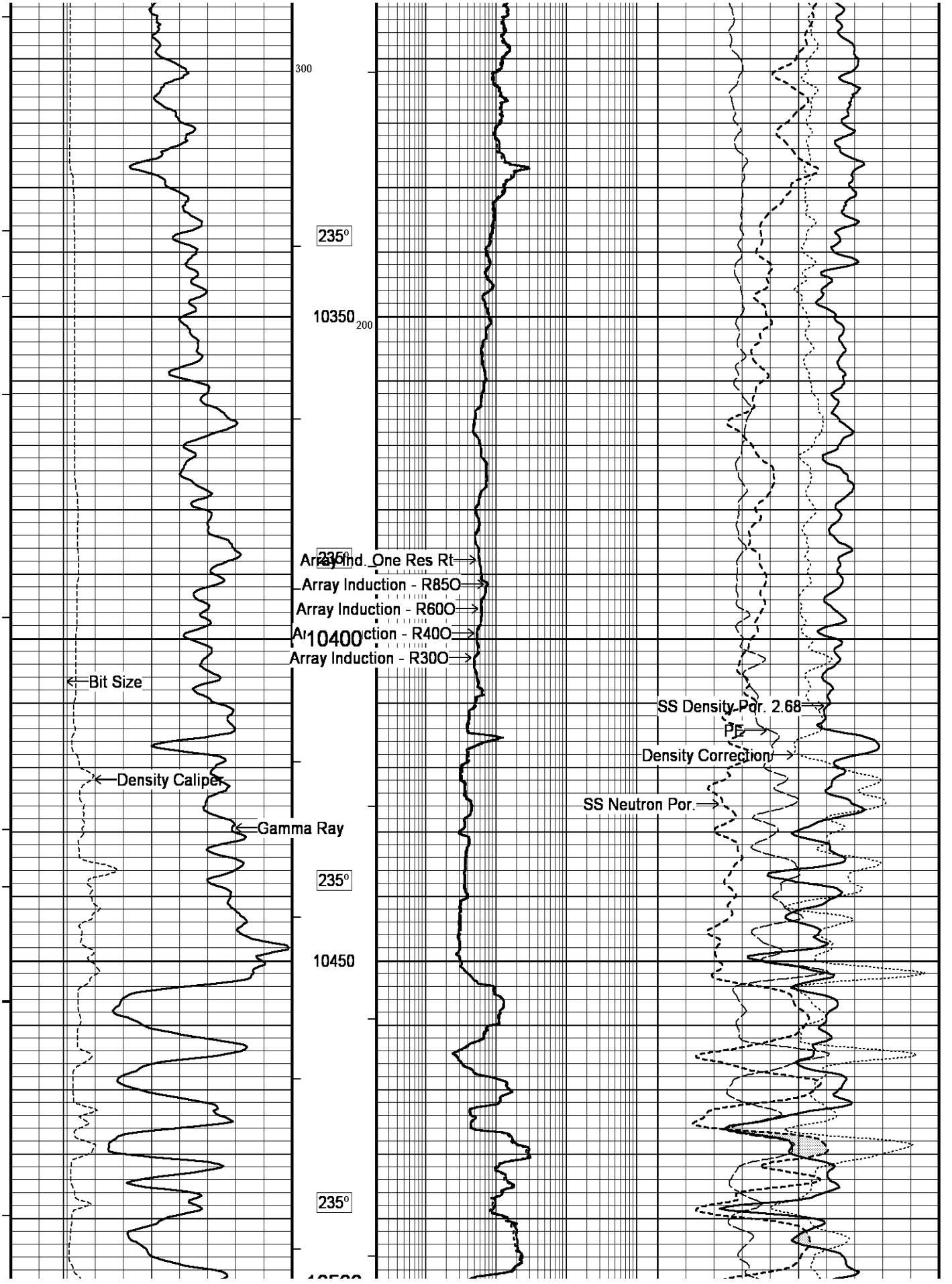

224°
9350
225°
9400
225°
9450
226°
9500
600

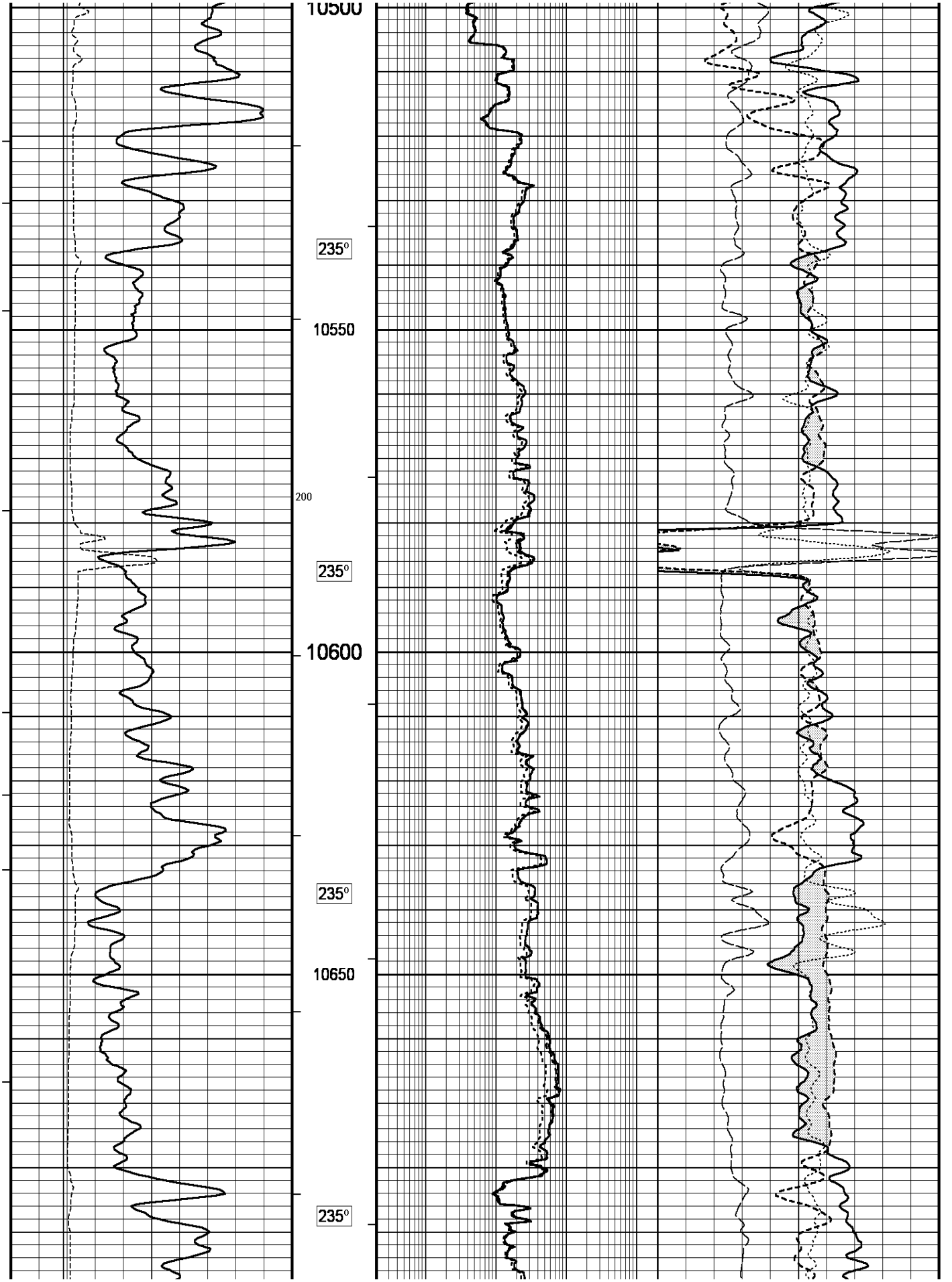

226°
9550
227°
400
9600
Array Induction - One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Density Caliper
227°
Gamma Ray
9650
227°
9700
SS Density Por. 2.68
PE
Density Correction

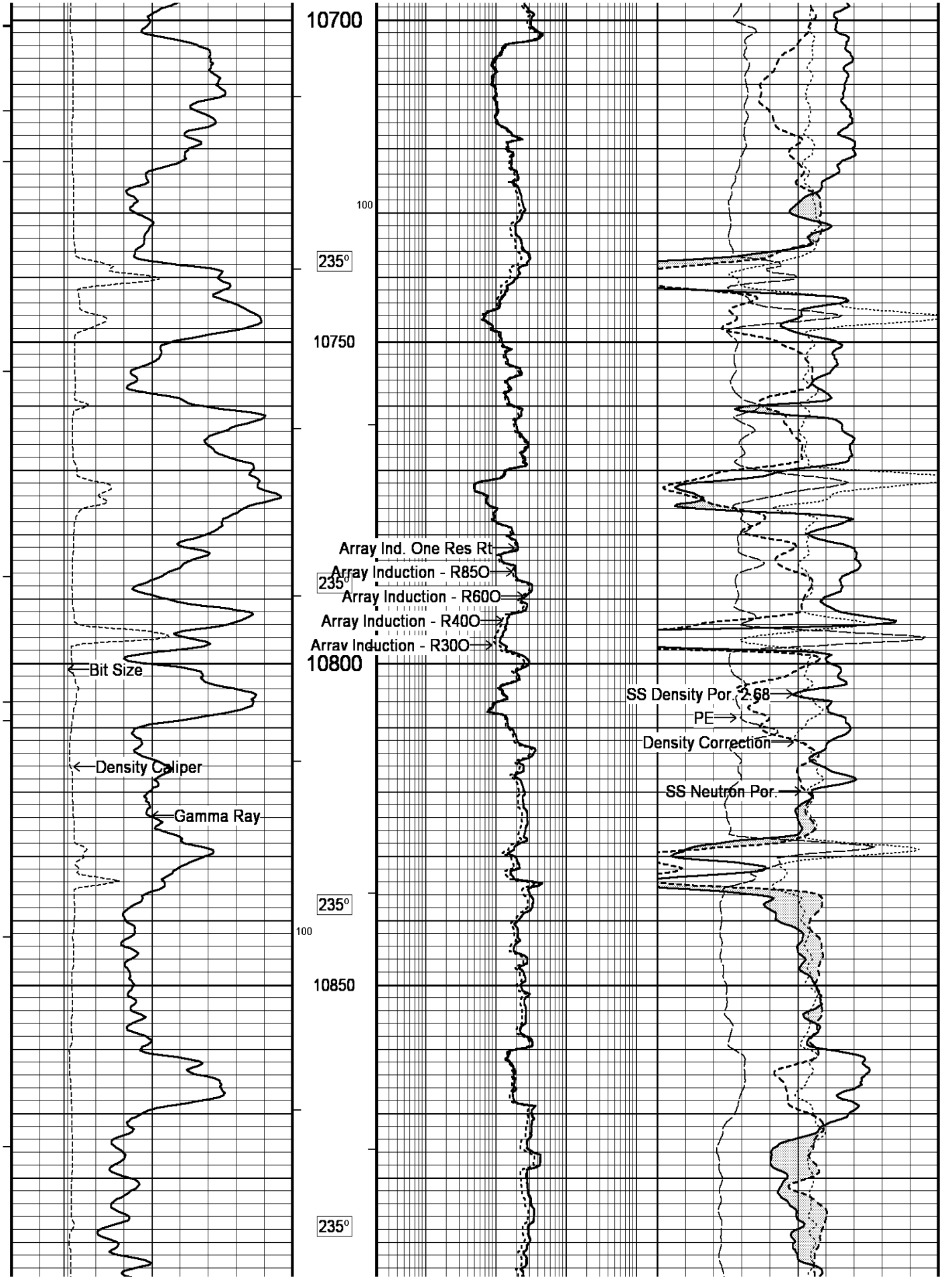

228°
9750
500
228°
9800
228°
9850
229°
9900

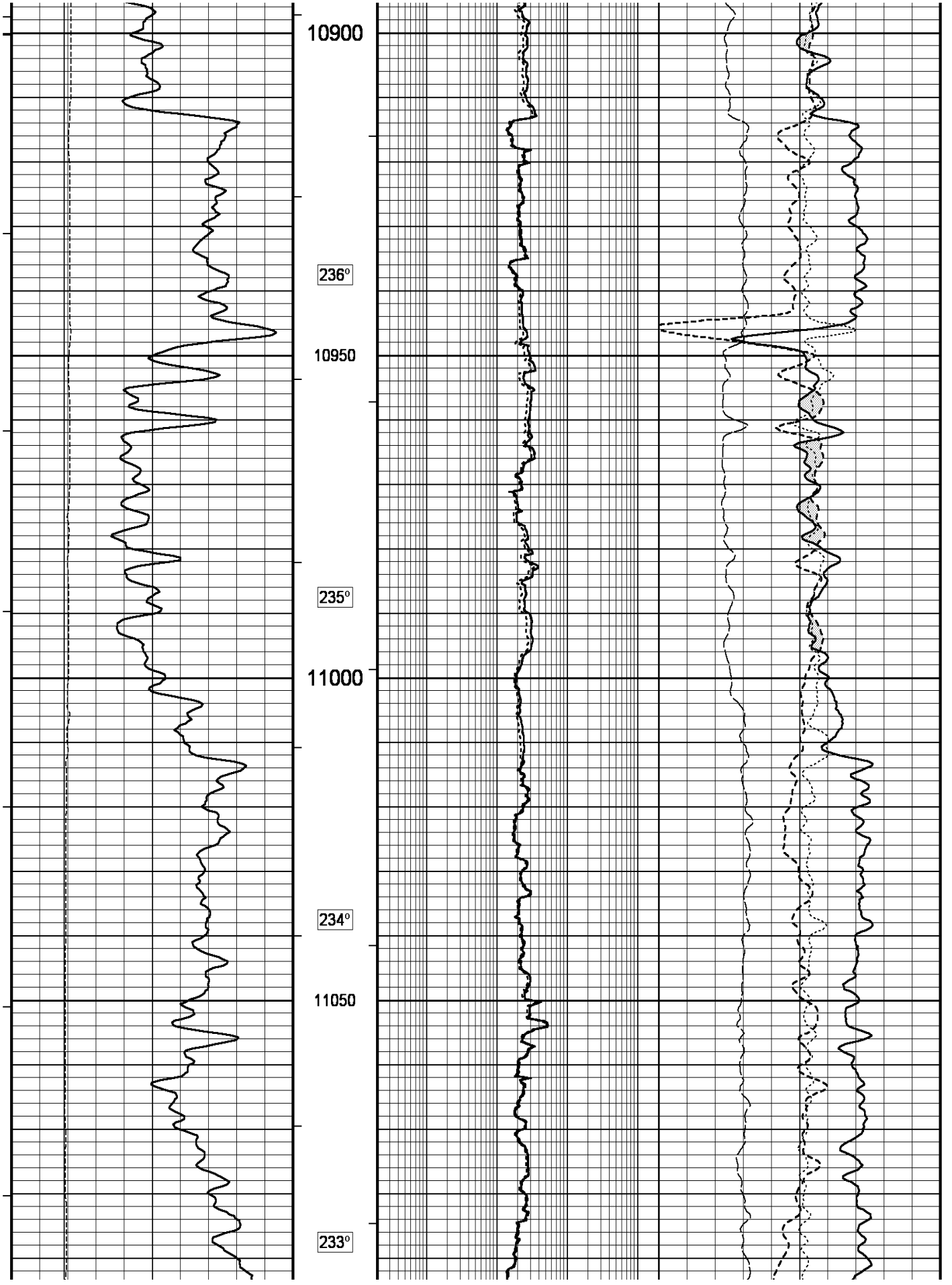

230°
9950
300
230°
Array Ind. One Res Rt
Array Induction - R85O
10000
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
Bit Size
Density Caliper
Gamma Ray
231°
400
10050
PE
Density Correction
SS Neutron Por.
232°
10100

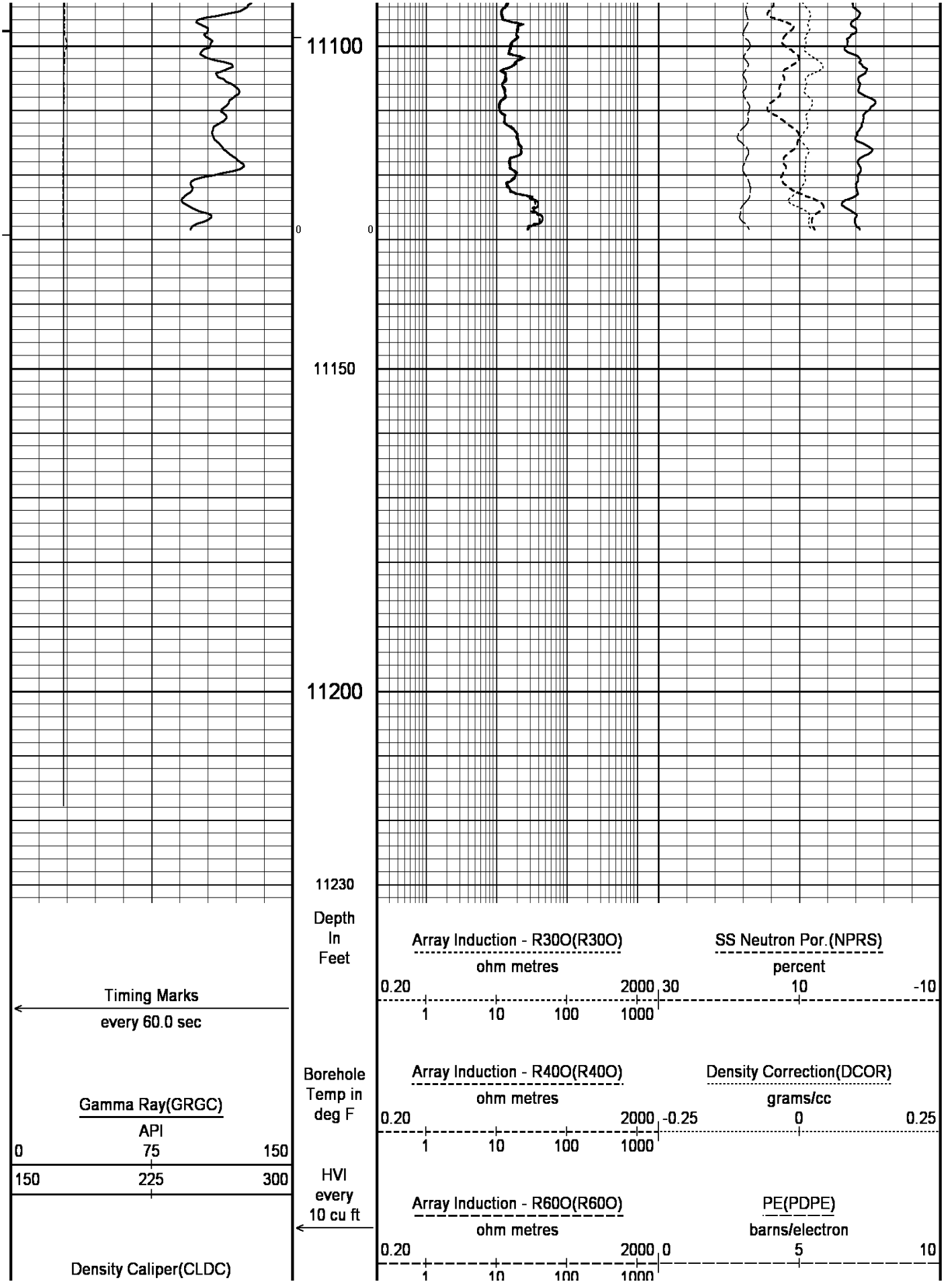

233°
10150
234°
10200
235°
10250
235°
10300

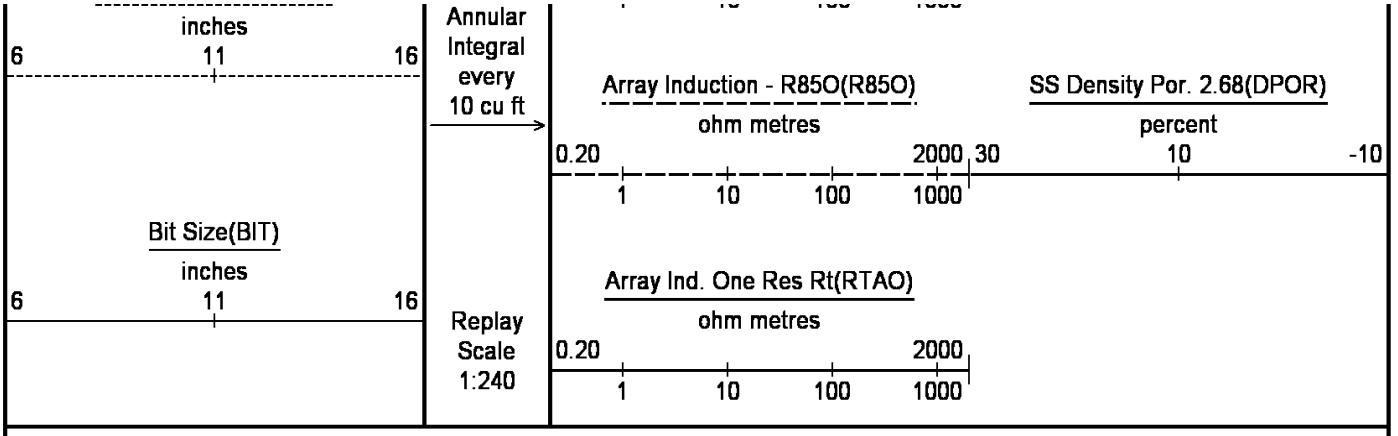

300
235°
10350
200
235°
Array Ind. One Res Rt
Array Induction - R85O
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
10400
Bit Size
Density Caliper
Gamma Ray
235°
10450
235°
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.


10500
235°
10550
200
235°
10600
235°
10650
235°


10700
100
235°
10750
Array Ind. One Res Rt
Array Induction - R85O
235°
Array Induction - R60O
Array Induction - R40O
Array Induction - R30O
10800
Bit Size
Density Caliper
Gamma Ray
SS Density Por. 2.68
PE
Density Correction
SS Neutron Por.
235°
100
10850
235°


10900
236°
10950
235°
11000
234°
11050
233°


11100
11150
11200
11230
Depth
In
Feet
Timing Marks
every 60.0 sec
Gamma Ray(GRGC)
API
0
75
150
150
225
300
Density Caliper(CLDC)
Borehole
Temp in
deg F
HVI
every
10 cu ft
Array Induction - R30O(R30O)
ohm metres
0.20
2000
1
10
100
1000
SS Neutron Por.(NPRS)
percent
30
10
-10
Array Induction - R40O(R40O)
ohm metres
0.20
2000
1
10
100
1000
Density Correction(DCOR)
grams/cc
-0.25
0
0.25
Array Induction - R60O(R60O)
ohm metres
0.20
2000
1
10
100
1000
PE(PDPE)
barns/electron
0
5
10



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 23-JUL-2012 00:04
Filename: C:\Minimus\Logs\Encana\NP EF09E-27 P27 595\NP EF 09E-27 P27 595 Depth.dta — Recorded on 22-JUL-2012 23:28
System Versions: Plotted with 12.02.4401

5 INCH MAIN LOG

BEFORE SURVEY CALIBRATION

C:\Minimus\Logs\Encana\NP EF09E-27 P27 595\NP EF 09E-27 P27 595 Depth.dta

Down-hole Tension Calibration All 000

Field Calibration on 24-OCT-2010 03:34

Reading No	Measured	Calibrated (lbs)
1	15659.85	0.00
2	15734.68	370.00

General Constants All 000

Last Edited on 22-JUL-2012 23:03

General Parameters		
Mud Resistivity	1.850	ohm-metres
Mud Resistivity Temperature	96.400	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. Two Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0

Field Calibration on 06-MAY-2012 06:21

Reading No	Measured	Calibrated (lbs)
1	12185.49	0.00
2	13145.20	430.00

High Resolution Temperature Calibration MCG-D.A 221

Field Calibration on 22-SEP-2011 10:19

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

High Resolution Temperature Constants MCG-D.A 221

Last Edited on

Pre-filter Length	11

SP Calibration MCG-D.A 221

Field Calibration on 05-JUN-2012 15:23

	Measured	Calibrated (mV)
Reference 1	100.3	100.1
Reference 2	-99.7	-100.1

Gamma Calibration MCG-D.A 221

Field Calibration on 21-JUL-2012 20:30

	Measured	Calibrated (API)
Background	70	47
Calibrator (Gross)	782	527
Calibrator (Net)	712	480

Gamma Constants MCG-D.A 221

Last Edited on 06-MAY-2012 00:11

Gamma Calibrator Number	GRCC112	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN-B.A 193

Base Calibration on 05-JUL-2012 14:50
Field Check on 21-JUL-2012 20:47

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2944	91	3714	110
Ratio	32.520		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1629	2362
Ratio	0.690	

Field Check

	Calibrated (cps)	
	1663	2409
Ratio	0.690	

Neutron Constants MDN-B.A 193

Last Edited on 22-JUL-2012 23:04

Neutron Source Id	P44382B	
Neutron Jig Number	6531NK	
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	
Salinity Correction	Not Applied	

FE Calibration MFE-B.A 248

Base Calibration on 03-JUL-2012 11:46
Field Check on 21-JUL-2012 20:36

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0

Reference 2	972.6	126.8
Base Check		279.0
Field Check		279.1

FE Constants MFE-B.A 248

Last Edited on 21-JUL-2012 20:36

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.J 362

Field Calibration on 06-JUL-2012 14:06

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

High Resolution Temperature Constants MAI-B.J 362

Last Edited on

Pre-filter Length	11

Induction Calibration MAI-B.J 362

Base Calibration on 21-JUL-2012 20:31
Field Check on 21-JUL-2012 20:34

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	16.0	468.7	9.3	966.2
2	6.2	374.5	7.6	821.4
3	3.6	258.3	5.2	566.0
4	1.8	133.1	2.6	279.2
Array Temperature		74.8	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	15.1	3874.4	
2	0.0	0.0	30.5	3604.8	
3	0.0	0.0	28.5	3067.8	
4	0.0	0.0	19.8	2078.1	
Deep	0.0	0.0	17.5	1953.0	
Medium	0.0	0.0	41.1	4074.9	
Shallow	0.0	0.0	45.5	5399.7	
Array Temperature		0.0		63.3	Deg F

Induction Constants MAI-B.J 362

Last Edited on 22-JUL-2012 23:04

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
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-C.A 215

Base Calibration on 03-JUL-2012 14:31
Field Calibration on 21-JUL-2012 20:37

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13984	3.99
2	22368	5.96
3	30960	7.99
4	39000	9.86
5	48256	11.93
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.82	7.99

Photo Density Calibration MPD-C.A 215

Base Calibration on 03-JUL-2012 14:15
Field Check on 21-JUL-2012 20:42

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	44788	15011	52994	19128
Reference 2	21362	2474	25185	2558

Field Check at Base

1279.3	1358.9

Field Check

1279.2	1369.3

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	233	1145		
Reference 1	14407	44606	0.326	0.309
Reference 2	5946	21223	0.285	0.274

Field Check at Base

232.9	1145.1

Field Check

231.9 1147.4

Density Constants MPD-C.A 215

Last Edited on 21-JUL-2012 20:42

Density Source Id	2859GW	
Nylon Calibrator Number	527	
Aluminium Calibrator Number	527	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.29	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

DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Encana\NP EF09E-27 P27 595\NP EF 09E-27 P27 595 Depth.dta

Drop-off Running Tool (DRT A A)
DRT-A.A 105 LG: 9.42 ft WT: 66.1 lb OD: 2.60 in

MBS-A 400v Compact Battery Sub
MBS-A 11 LG: 7.84 ft WT: 57.3 lb OD: 2.24 in

Compact Comms Gamma
MCG-D.A 221 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Memory Sub D.A
MMS-D.A 154 LG: 3.12 ft WT: 30.9 lb OD: 2.24 in

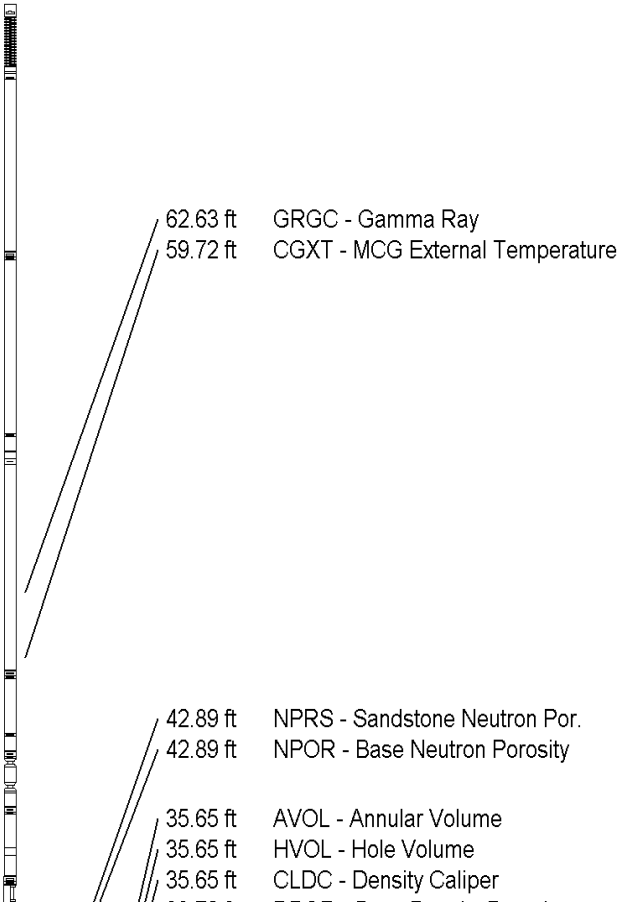
SKJ-E.B Compact Knuckle Joint
SKJ-E.B 536 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 571 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 653 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
MDN-B.A 193 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-C.A 215 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in



MIS-D.A Compact Inline Bowspring sub
MIS-D.A 728 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-H Compact Swivel Head Adaptor
SHA-H 142 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 66 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

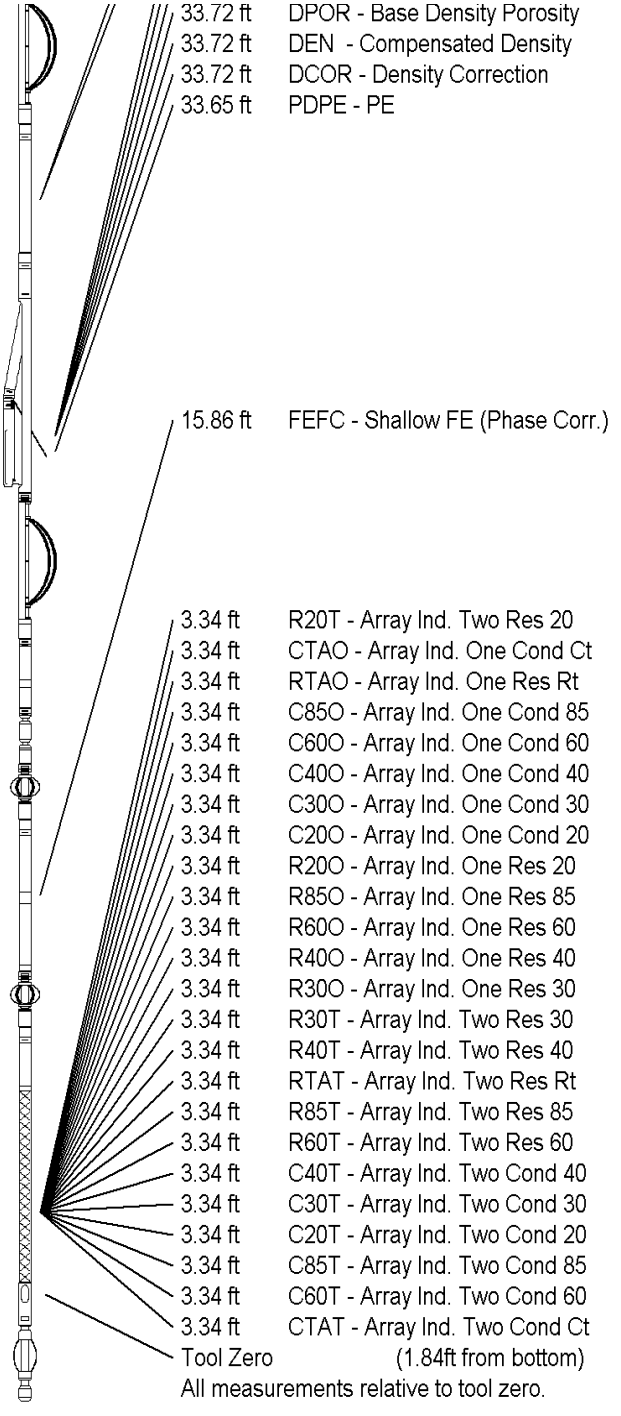
MIS-E.A Compact Inline Standoff sub
MIS-E.A 199 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Focussed Electric
MFE-B.A 248 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

MIS-E.A Compact Inline Standoff sub
MIS-E.A 326 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction
MAI-B.J 362 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in

Total Length: 86.88 ft Weight: 646.0 lb



COMPANY	ENCANA OIL AND GAS (USA)
WELL	NP EF 09E-27 P27 595
FIELD	GRAND VALLEY
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	6672.00	feet	First Reading	11212.00	feet
Elevation Drill Floor	6672.00	feet	Depth Driller	11265.00	feet
Elevation Ground Level	6650.00	feet	Depth Logger	11265.00	feet

COMPACT PROP OFF

Weatherford®

COMPACT DROP OFF
TRIPLE COMBO
QUICKLOOK LOG

40 Years of Wireline 1970 2010