COMPACT TRIPLE COMBO
QUICKLOOK
LOG

Weatherford®

COMPANY	BILL BARRETT CORPORATION
WELL	CB-TG LAND 21A-20-692
FIELD	MAMM CREEK
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO
LOCATION	SHL: 735' FNL & 2551' FEL
	BHL: 1197' FNL & 1972' FWL

40 Years of Wireline 1970 2010

SEC	TWP	RGE	Other Services
31	6S	92W	

API Number 05-045-19774
Permit Number

Permanent Datum G.L., Elevation 5530 feet
Log Measured From K.B. @ 23 FT above Permanent Datum
Drilling Measured From K.B.

Elevations:	feet
KB	5553.00
DF	5552.00
GL	5530.00

Date	15-MAY-2011			
Run Number	ONE			
Depth Driller	7641.00	feet		
Depth Logger	7640.00	feet		
First Reading	7637.00			
Last Reading	816.00			
Casing Driller	815.00	feet		
Casing Logger	816.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	LSND			
Density / Viscosity	10.30 lb/USg	55.00 CP		
PH / Fluid Loss	9.70	8.00 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	2.87 @ 75.2	ohm-m		
Rmf @ Measured Temp	2.30 @ 75.2	ohm-m		
Rmc @ Measured Temp	3.44 @ 75.2	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	1.13 @196.0	ohm-m		
Time Since Circulation	7 HOURS			
Max Recorded Temp	196.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13045	GD JCT		
Recorded By	D. KUNTZ			
Witnessed By	C. CROWTON			

BOREHOLE RECORD

Last Edited: 16-MAY-2011 02:27

Bit Size inches	Depth From feet	Depth To feet
8.750	816.00	5084.00
7.875	5084.00	7640.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	816.00	36.00

REMARKS

LOGGED USING WLS SOFTWARE VERSION 11.02.3186

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

HARDWARE: MPD: (1) 8 INCH PROFILE PLATE
MAI: (2) 0.5 INCH STANDOFF
MDN: (1) DUAL BOWSPRING
MFE: (1) 0.5 INCH STANDOFF

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. = 8.99" (9 5/8", 36 LB/FT CASING)

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2785 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2035 CU.FT.

SERVICE ORDER: #3524798

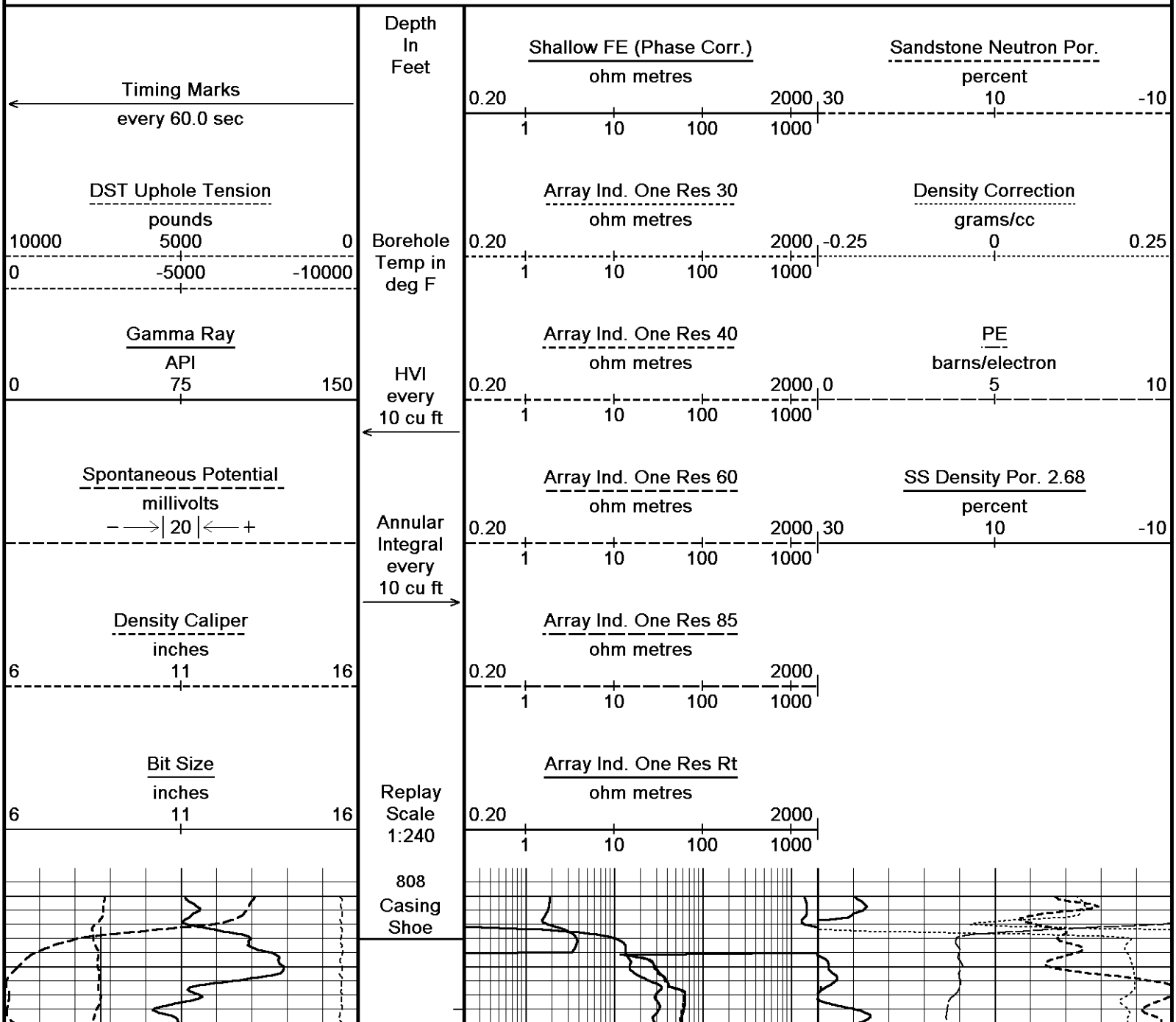
RIG: NABORS #37

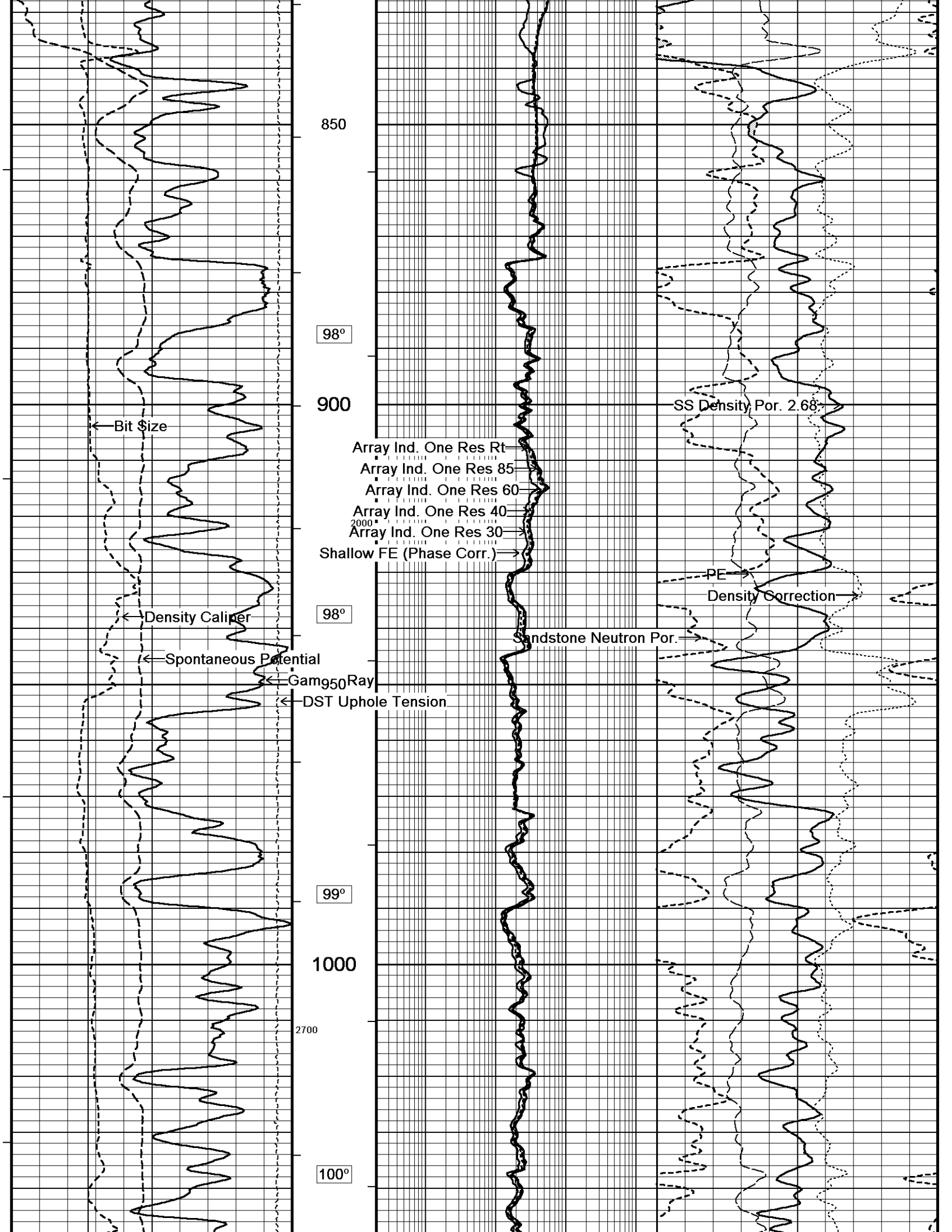
ENGINEER(S): D.KUNTZ, K. SALLER (JFE)

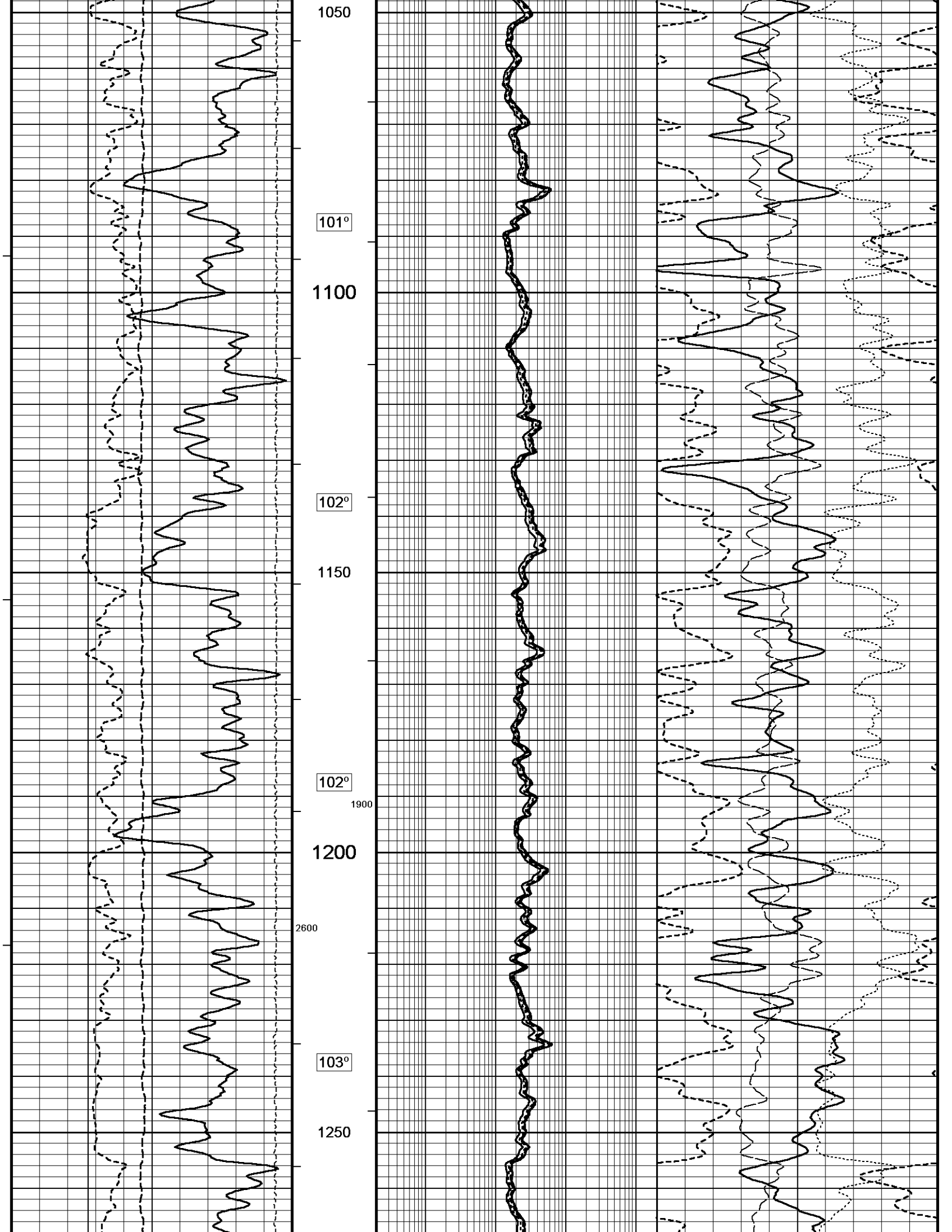
OPERATOR(S): M. VERSLUIS, J. PEHRSON

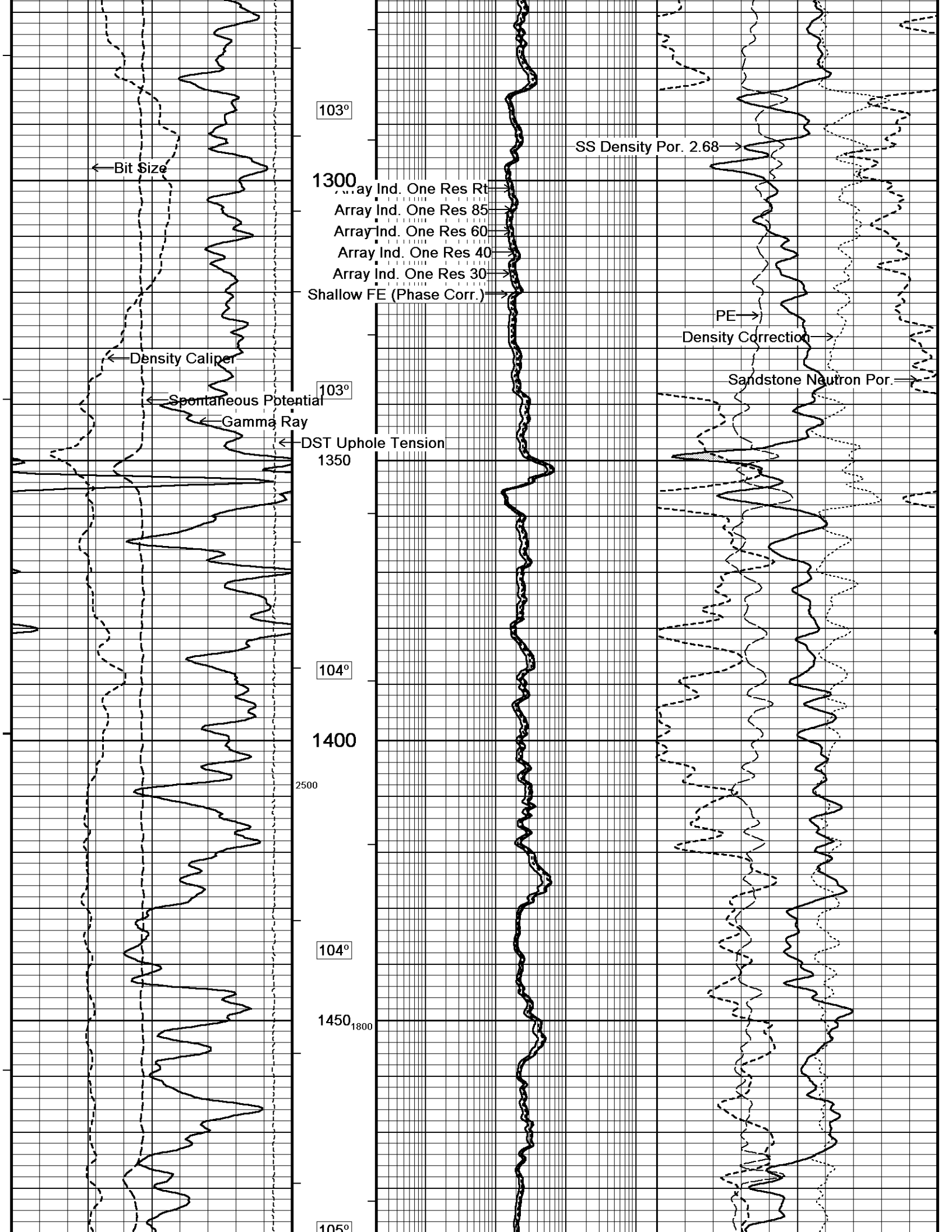
5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 16-MAY-2011 03:43
Filename: C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\MAIN.dta
Recorded on 16-MAY-2011 00:18
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186




850
98°
900
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
2000
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
98°
Sandstone Neutron Por.
Spontaneous Potential
Gam950Ray
DST Uphole Tension
99°
1000
2700
100°


1050
101°
1100
102°
1150
102°
1900
1200
2600
103°
1250


103°
Bit Size
1300
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Array Ind. One Res 60
Array Ind. One Res 40
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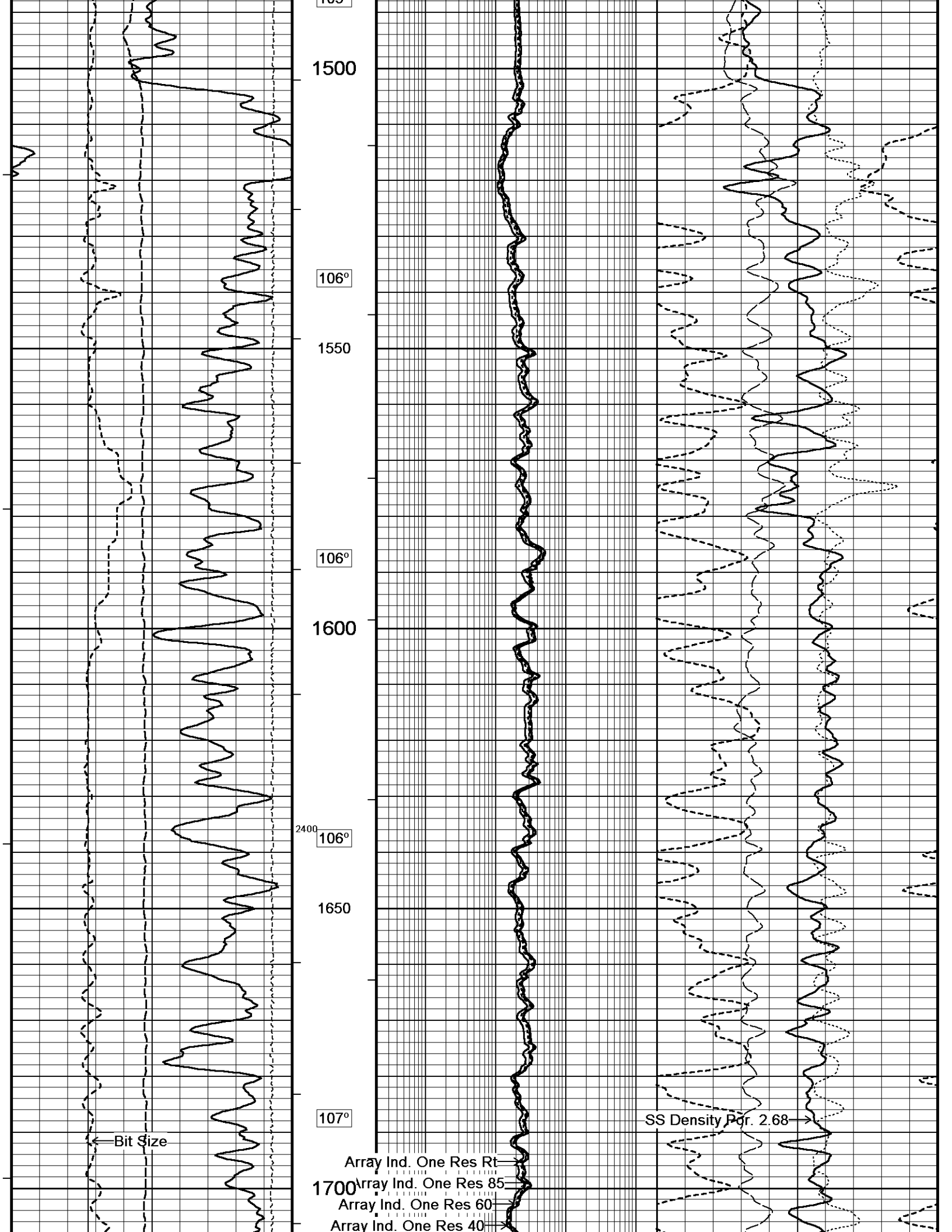
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
103°
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
1350
104°
1400
2500
104°
1450
1800
105°


1500
106°
1550
106°
1600
2400
106°
1650
107°
1700
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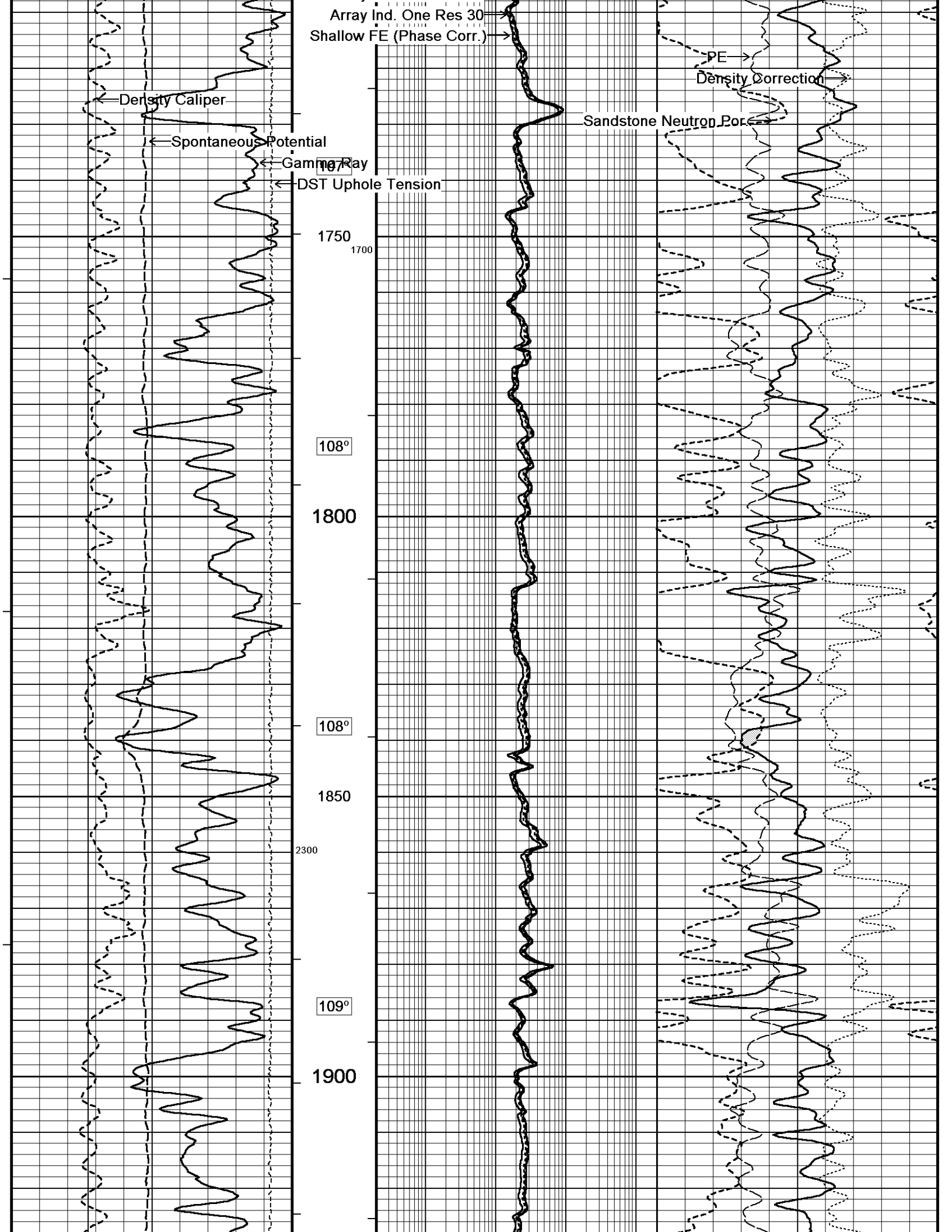
Array Ind. One Res 40
SS Density Por. 2.68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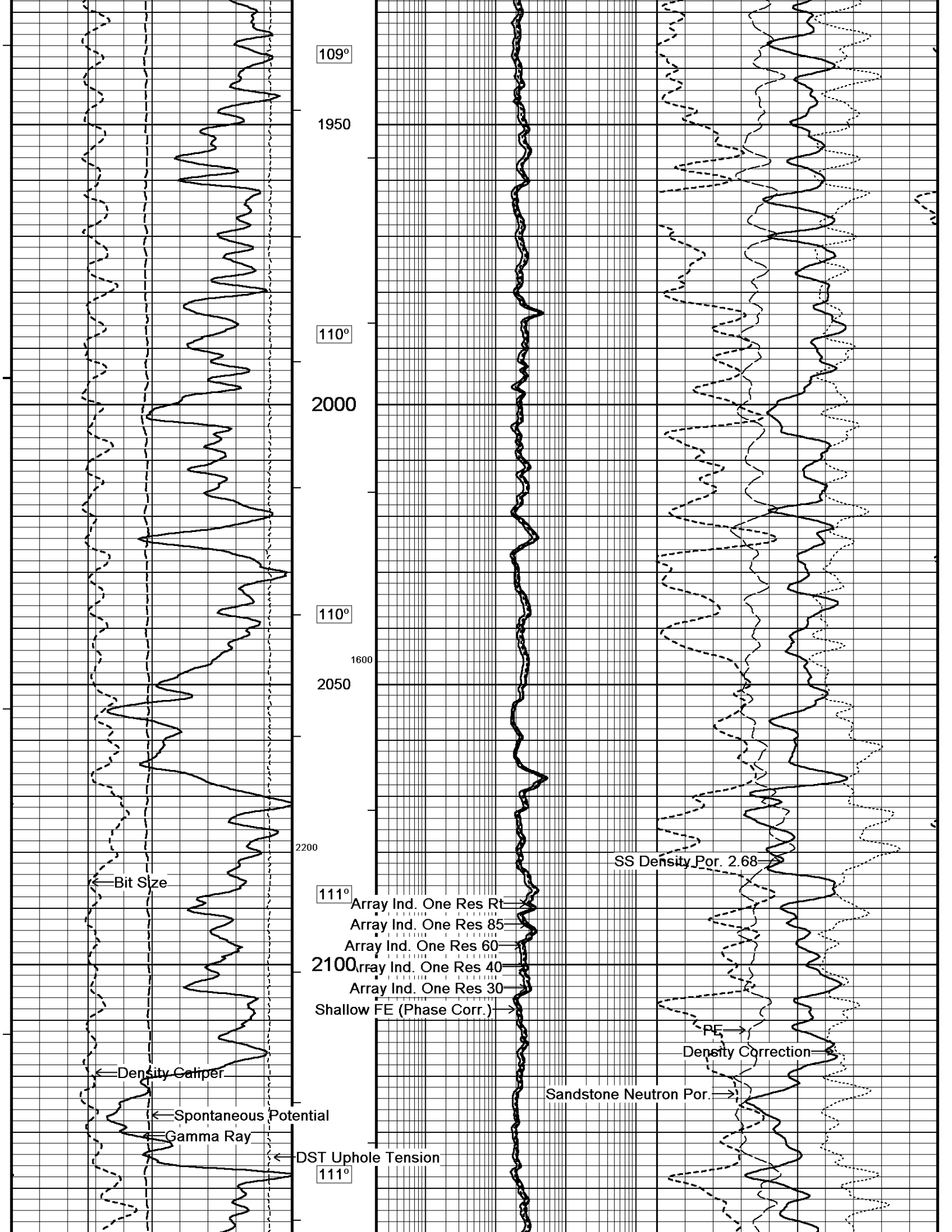
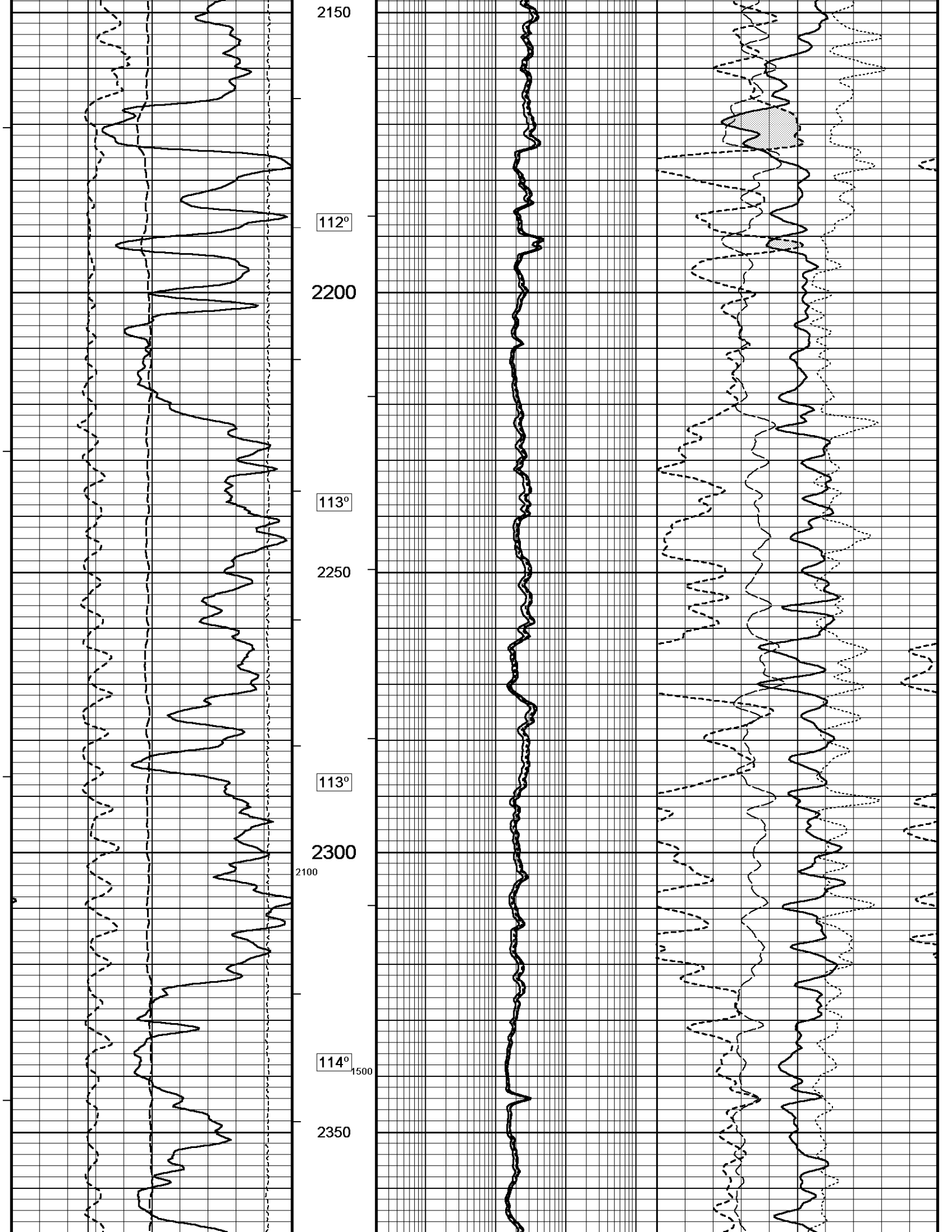
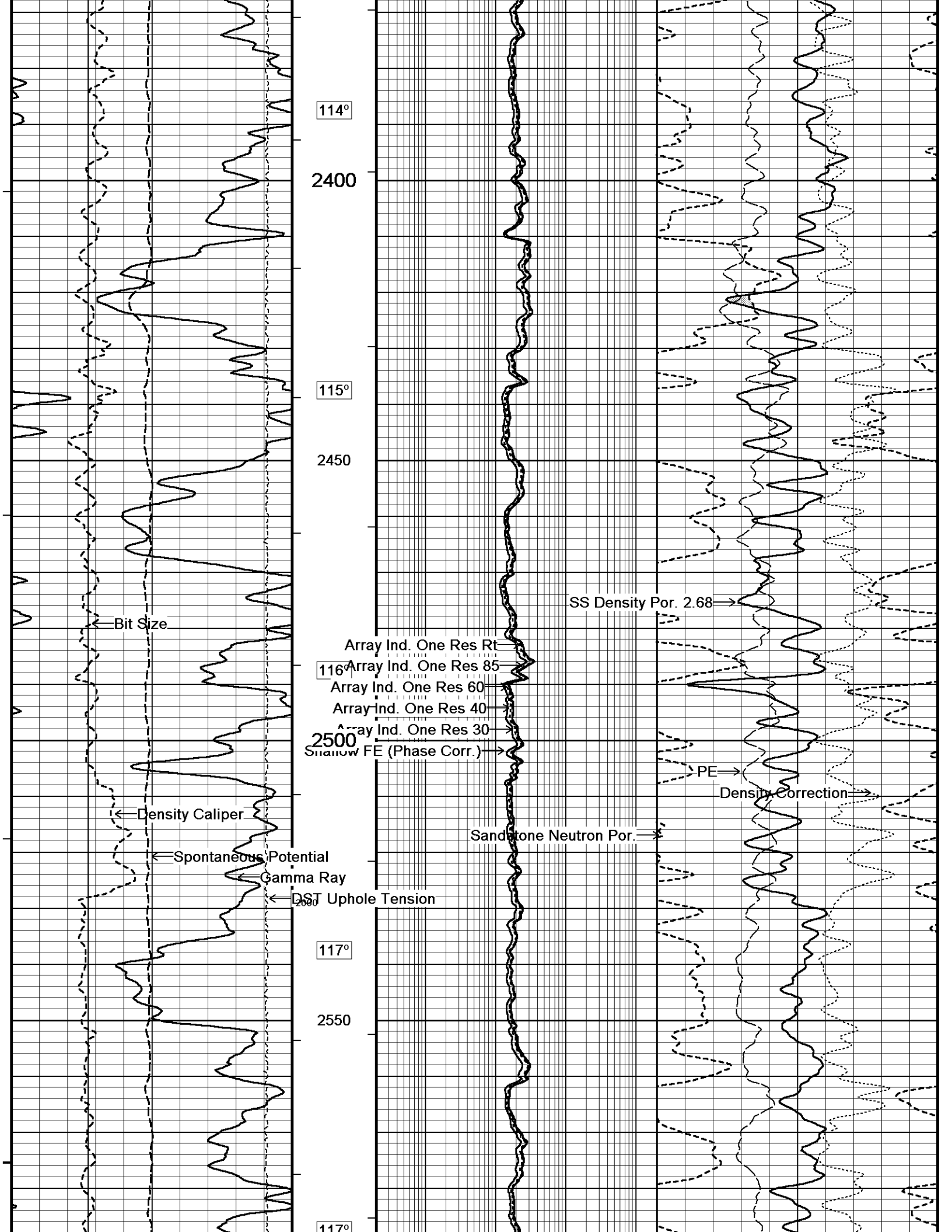
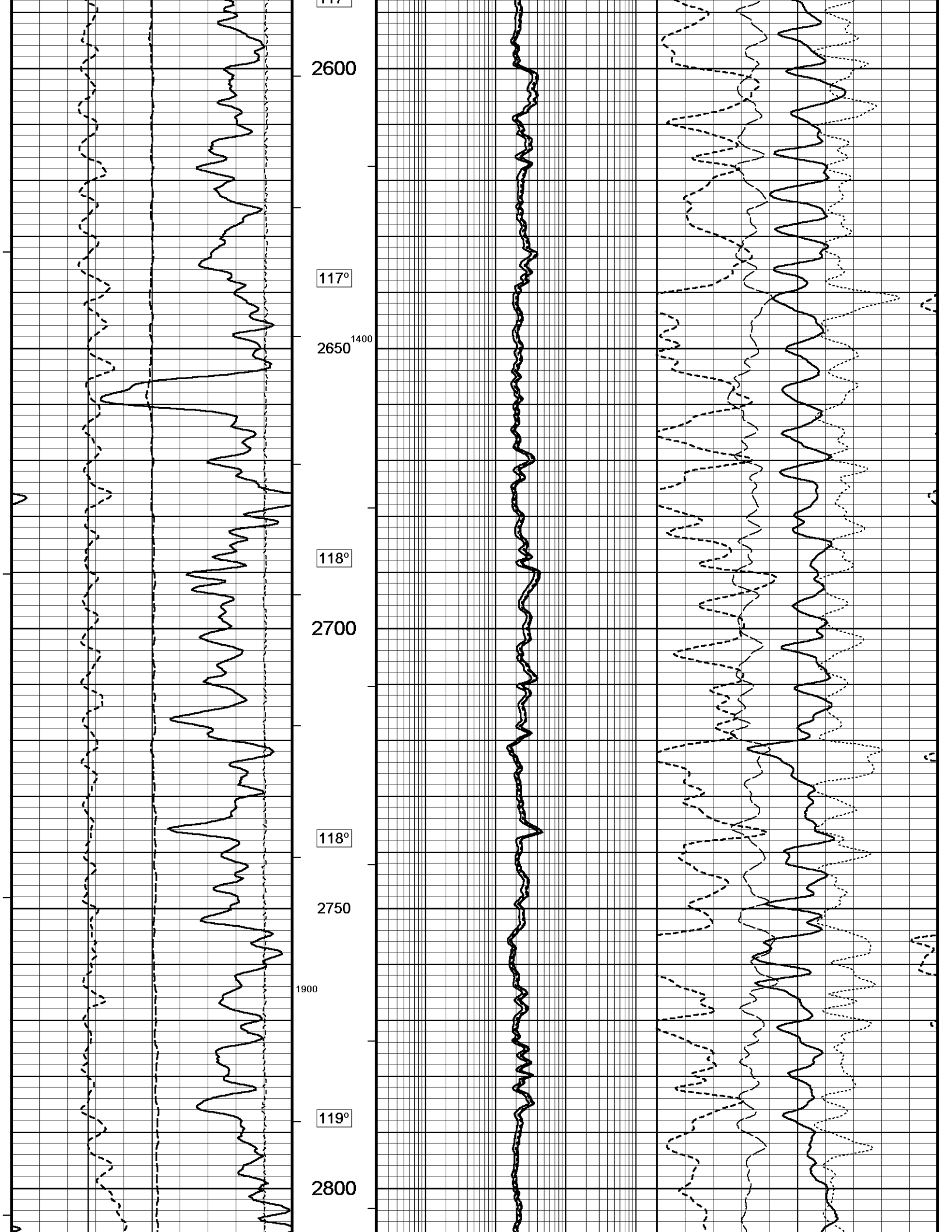
Shallow FE (Phase Corr.)
PE
Density Correction
Sandstone Neutron Por.
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
1700
1750
1800
1850
1900
2300
107°
108°
108°
109°


109°
1950
110°
2000
110°
1600
2050
2200
111°
2100
111°
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.


2150
112°
2200
113°
2250
113°
2300
2100
114°
1500
2350


114°
2400
115°
2450
116°
2500
117°
2550
117°
2600
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.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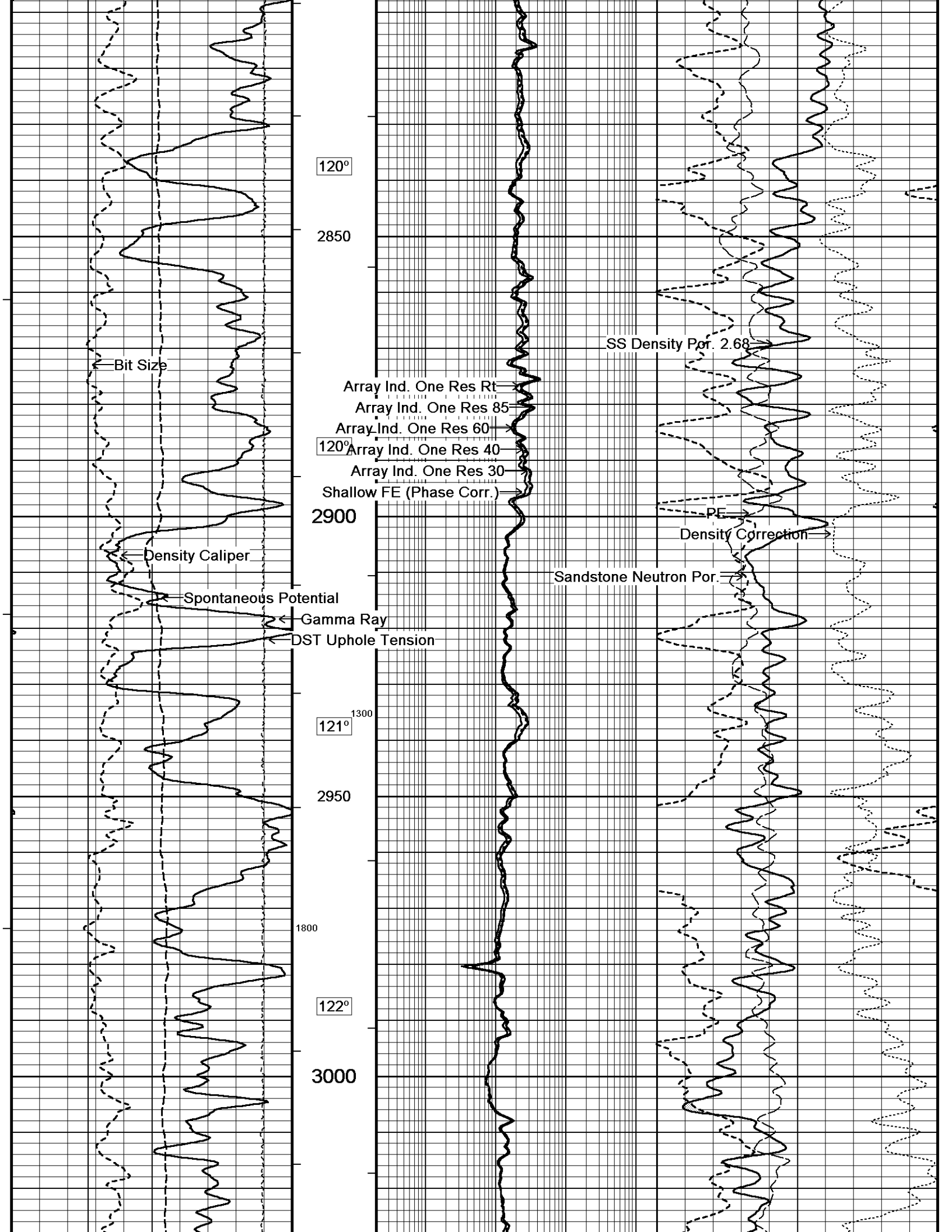
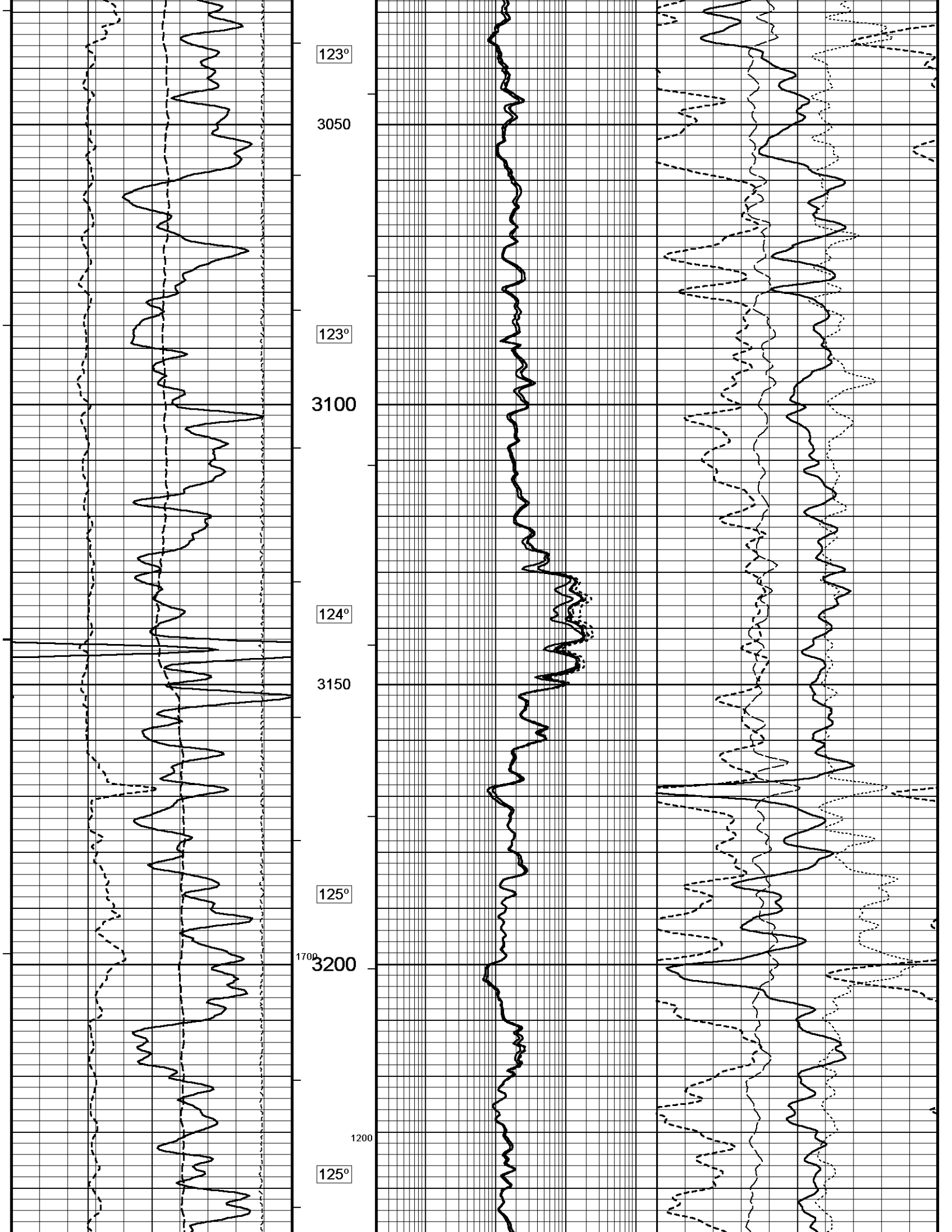
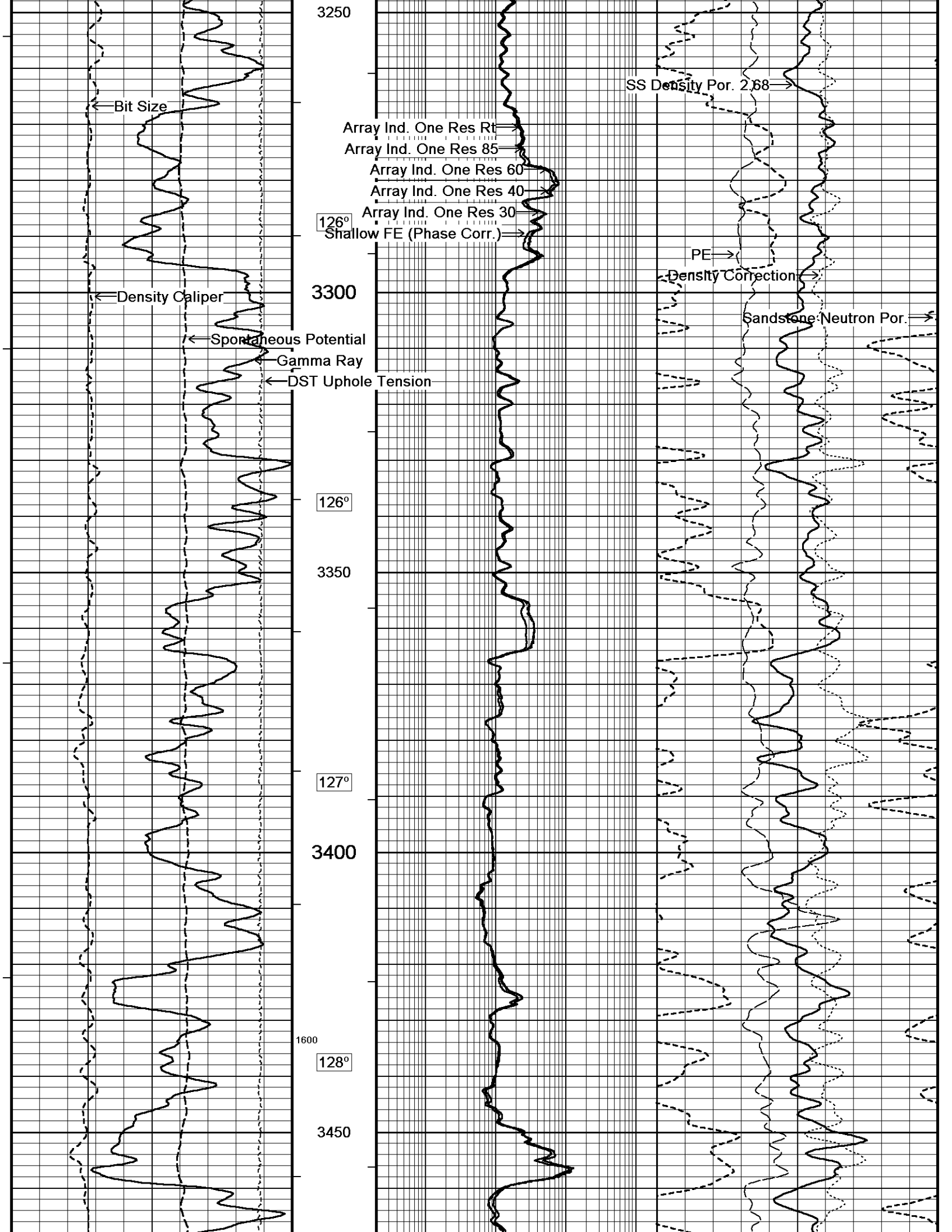
117°
2650
1400
118°
2700
118°
2750
1900
119°
2800


120°
2850
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
120°
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
2900
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
1300
121°
2950
1800
122°
3000
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.


123°
3050
123°
3100
124°
3150
125°
1700
3200
1200
125°


3250
Bit Size
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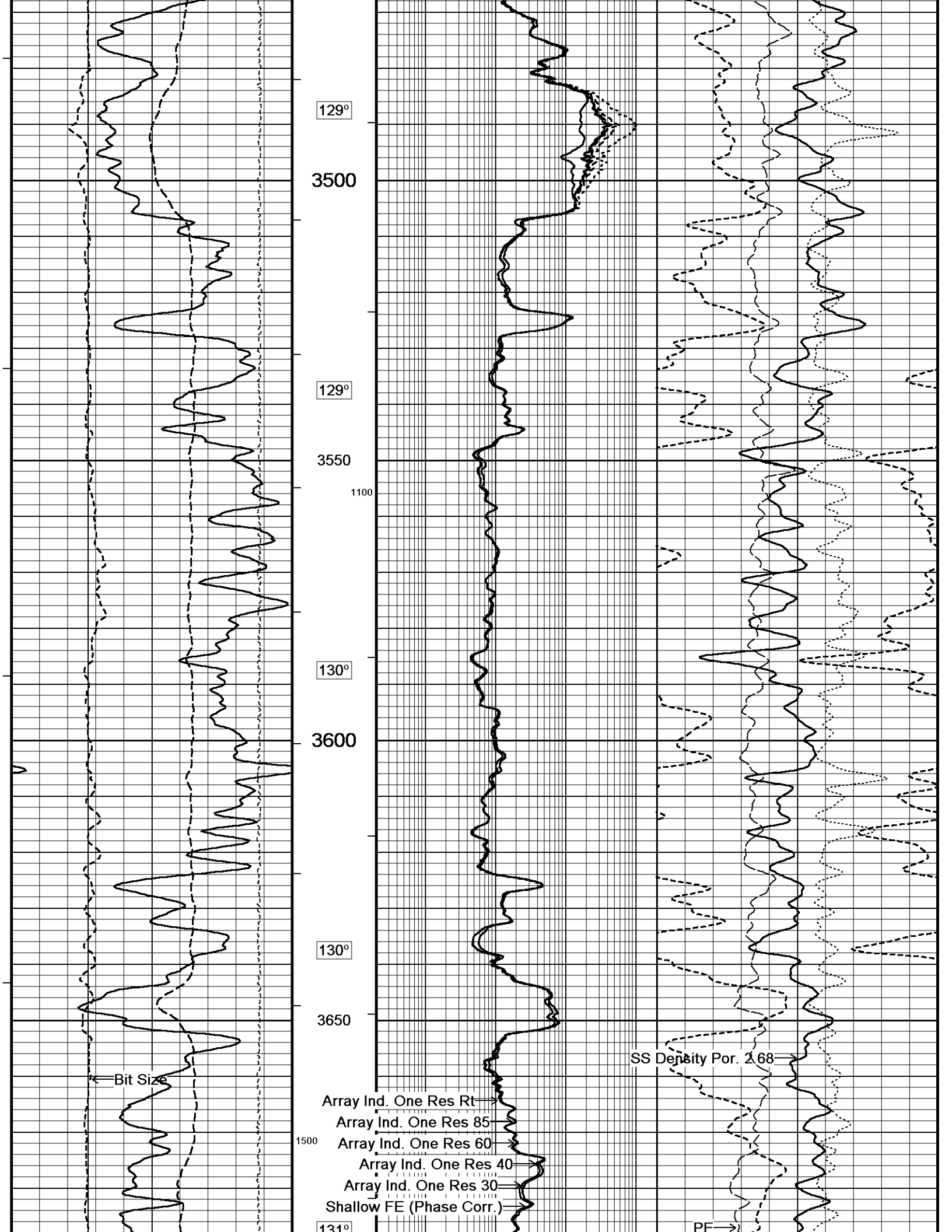
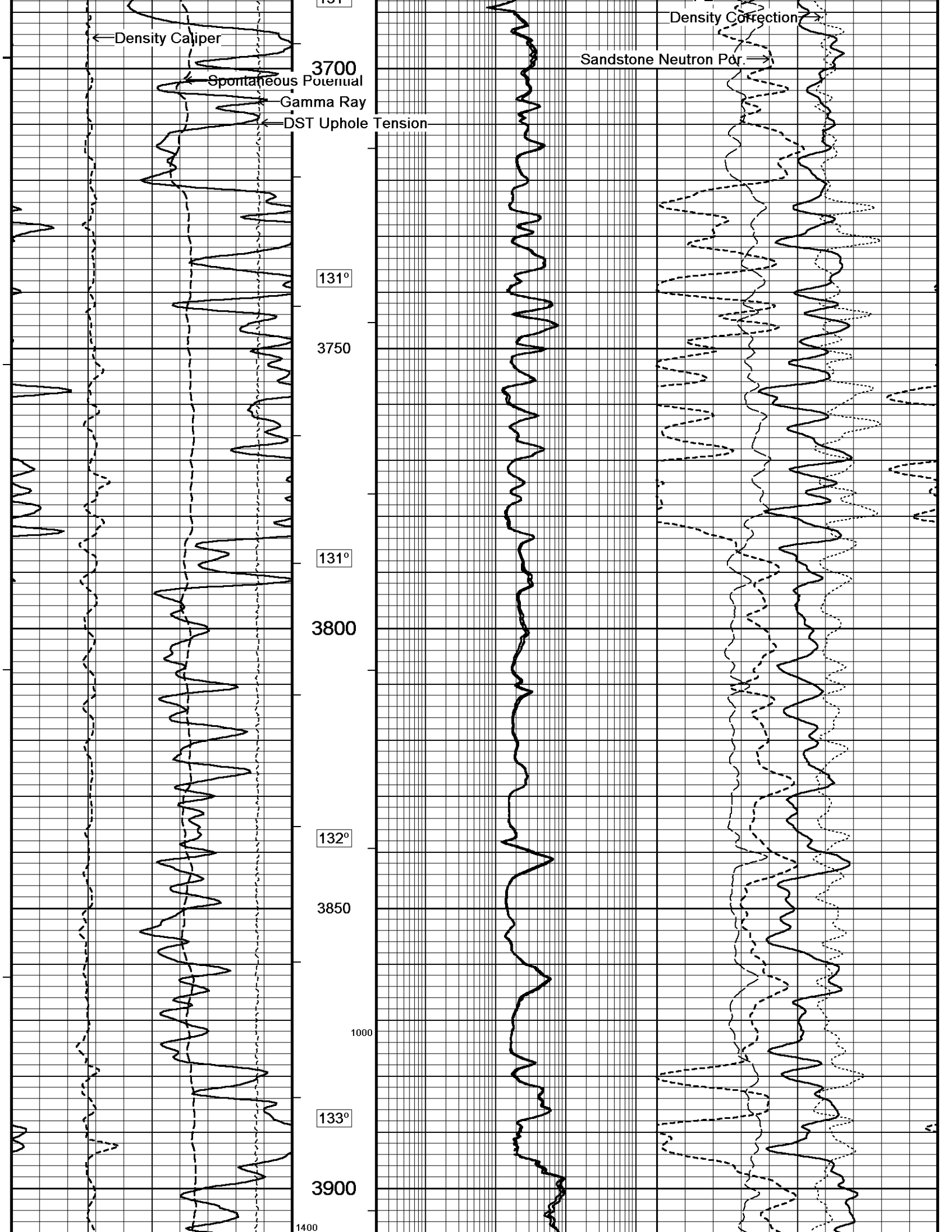
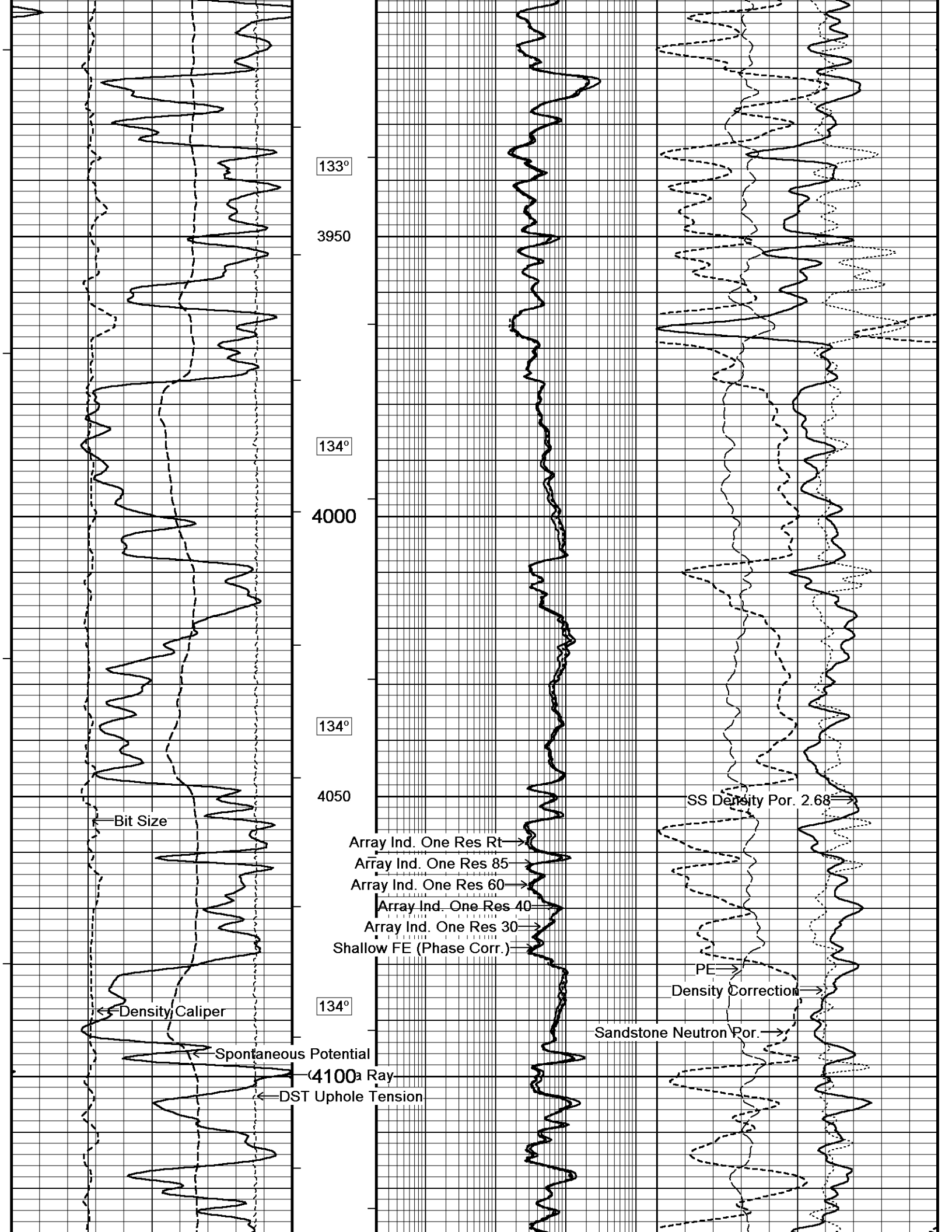
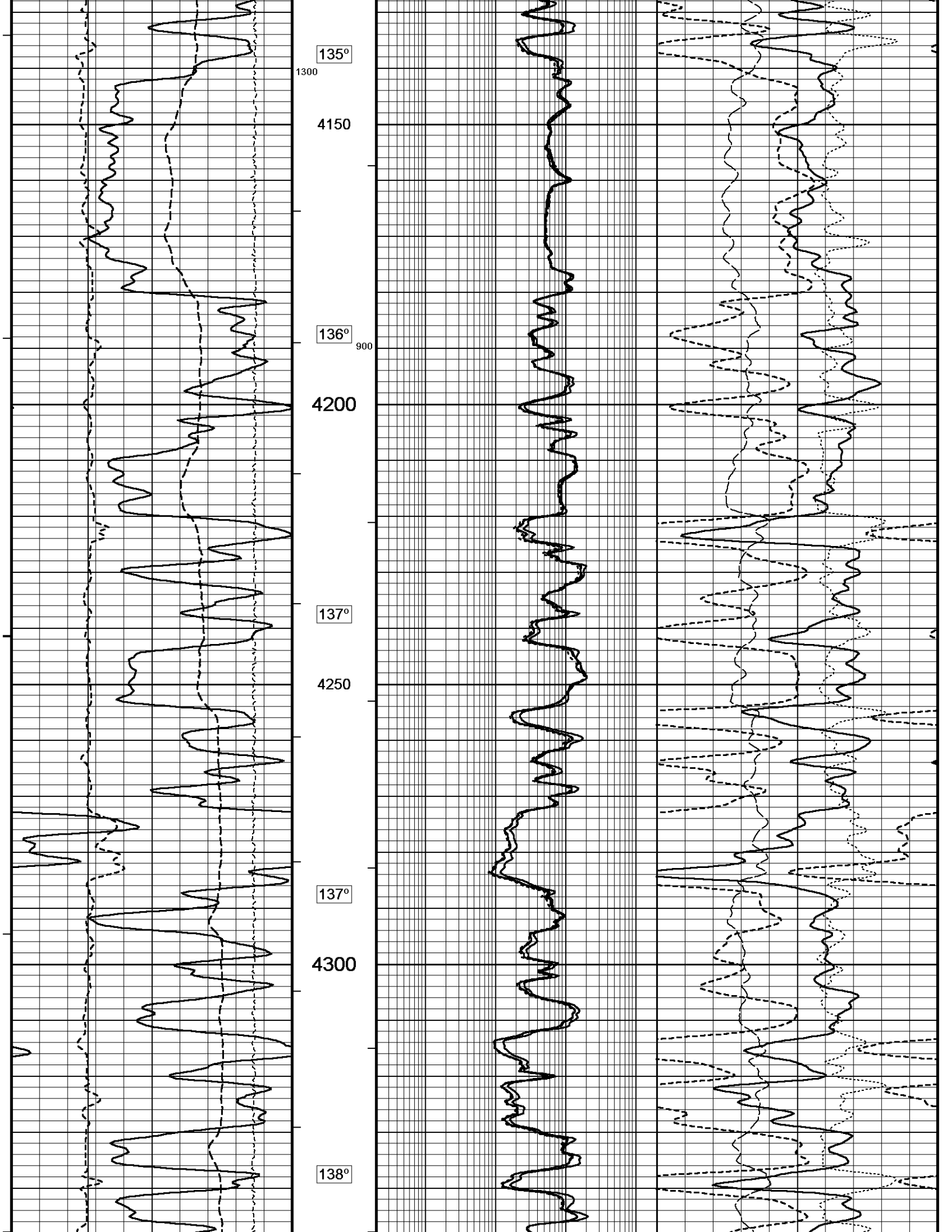
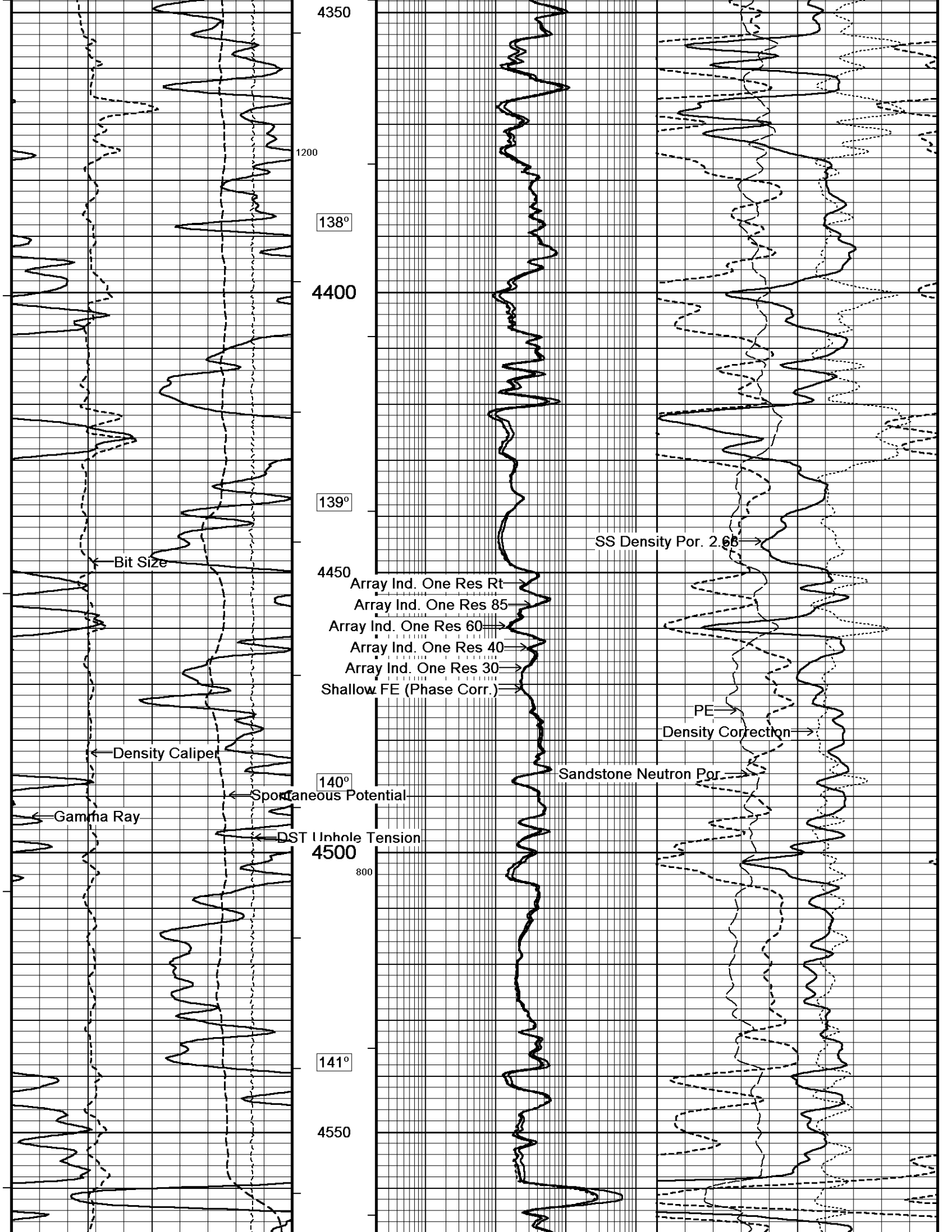
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
126°
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
3300
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
126°
3350
127°
3400
1600
128°
3450

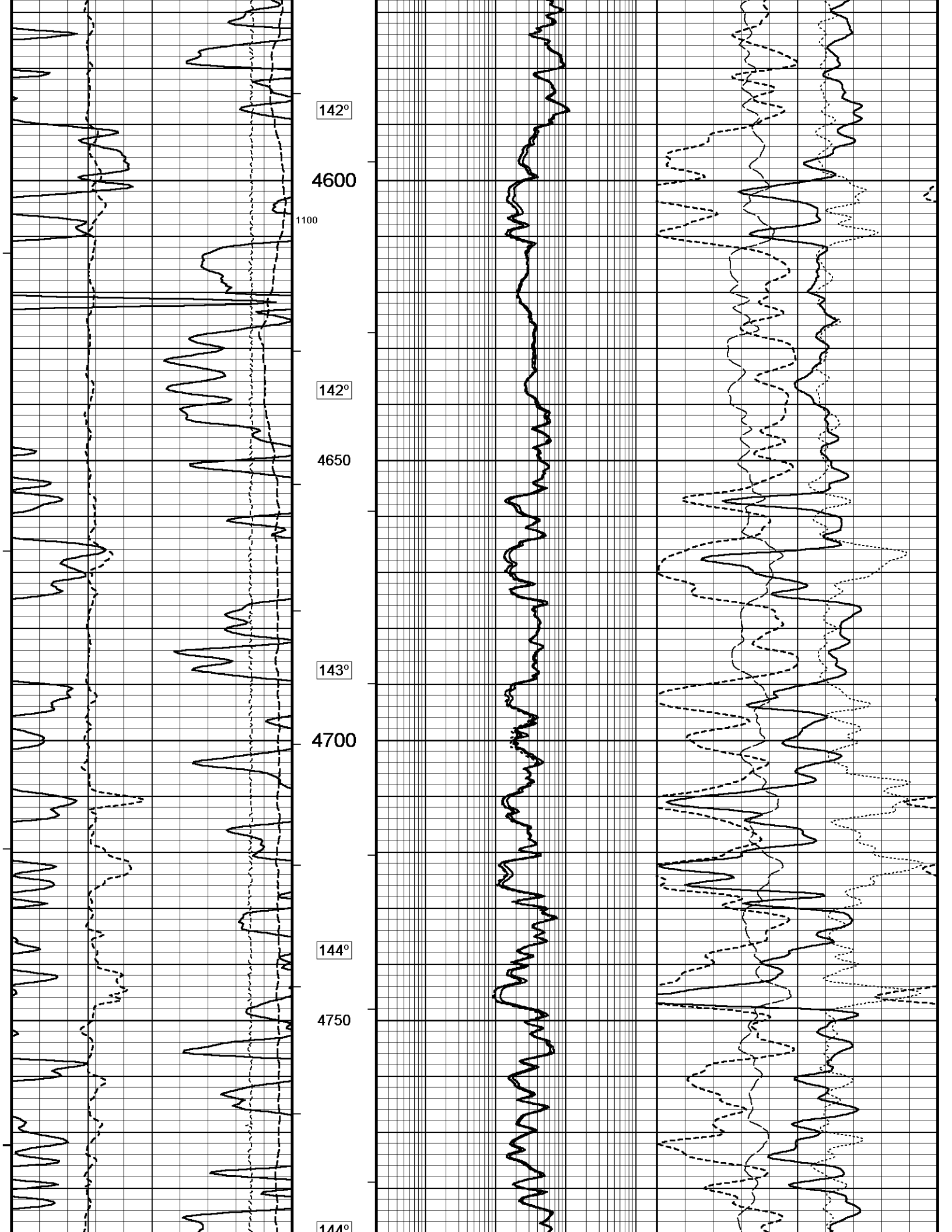

129°
3500
129°
3550
1100
130°
3600
130°
3650
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
1500
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
131°
SS Density Por. 2.68
PE

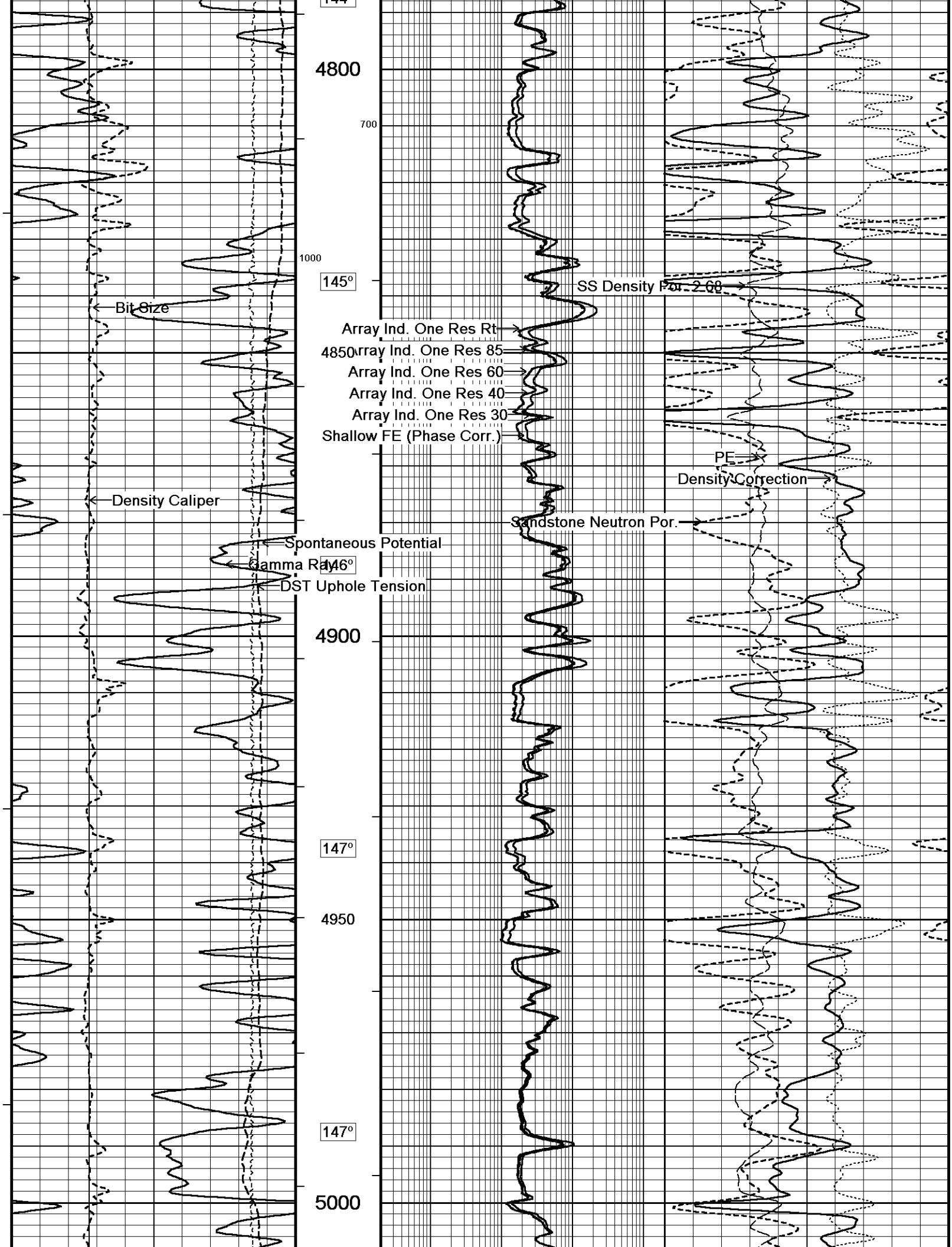

Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Density Correction
Sandstone Neutron Por.
3700
131°
3750
131°
3800
132°
3850
1000
133°
3900
1400

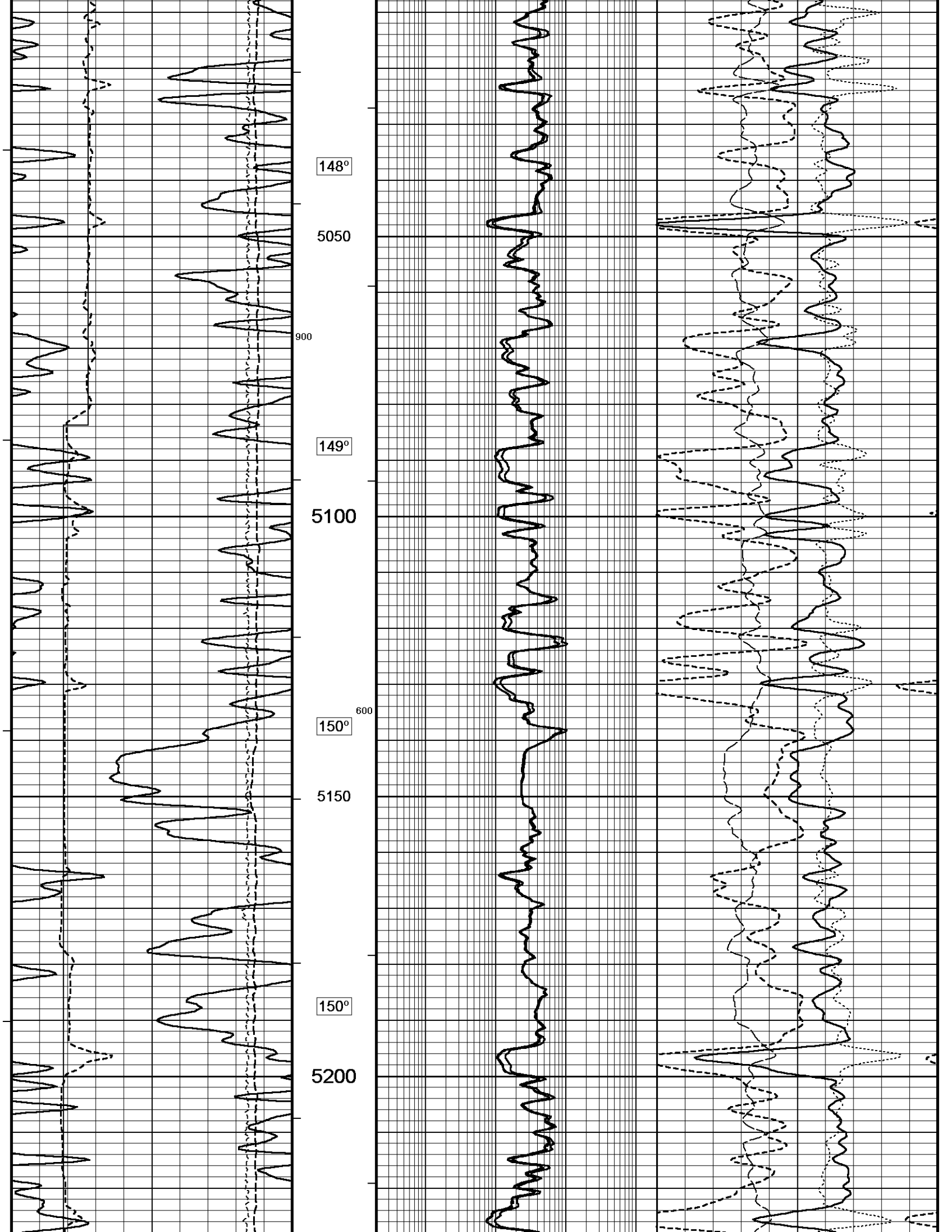

133°
3950
134°
4000
134°
4050
134°
4100
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.

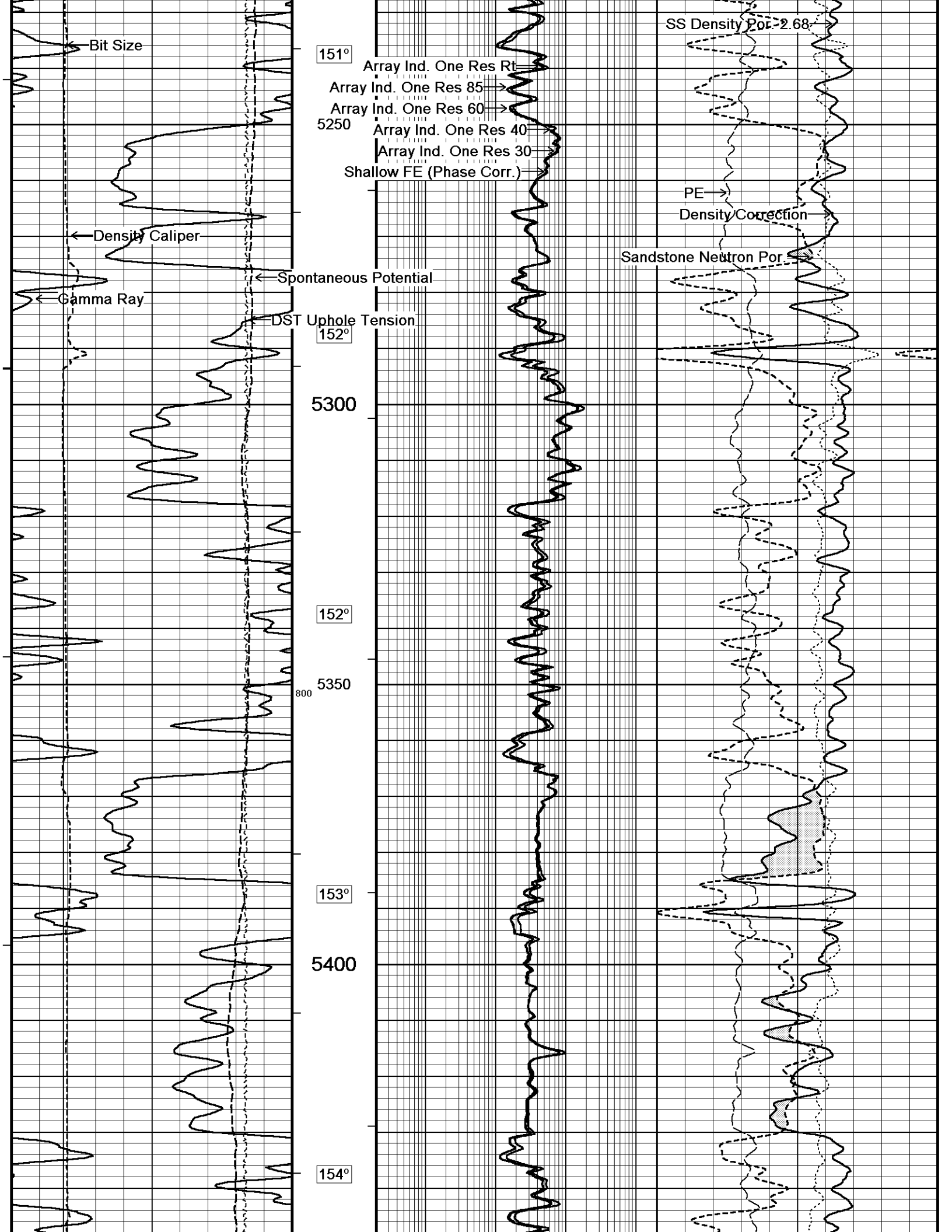

135°
1300
4150
136°
900
4200
137°
4250
137°
4300
138°

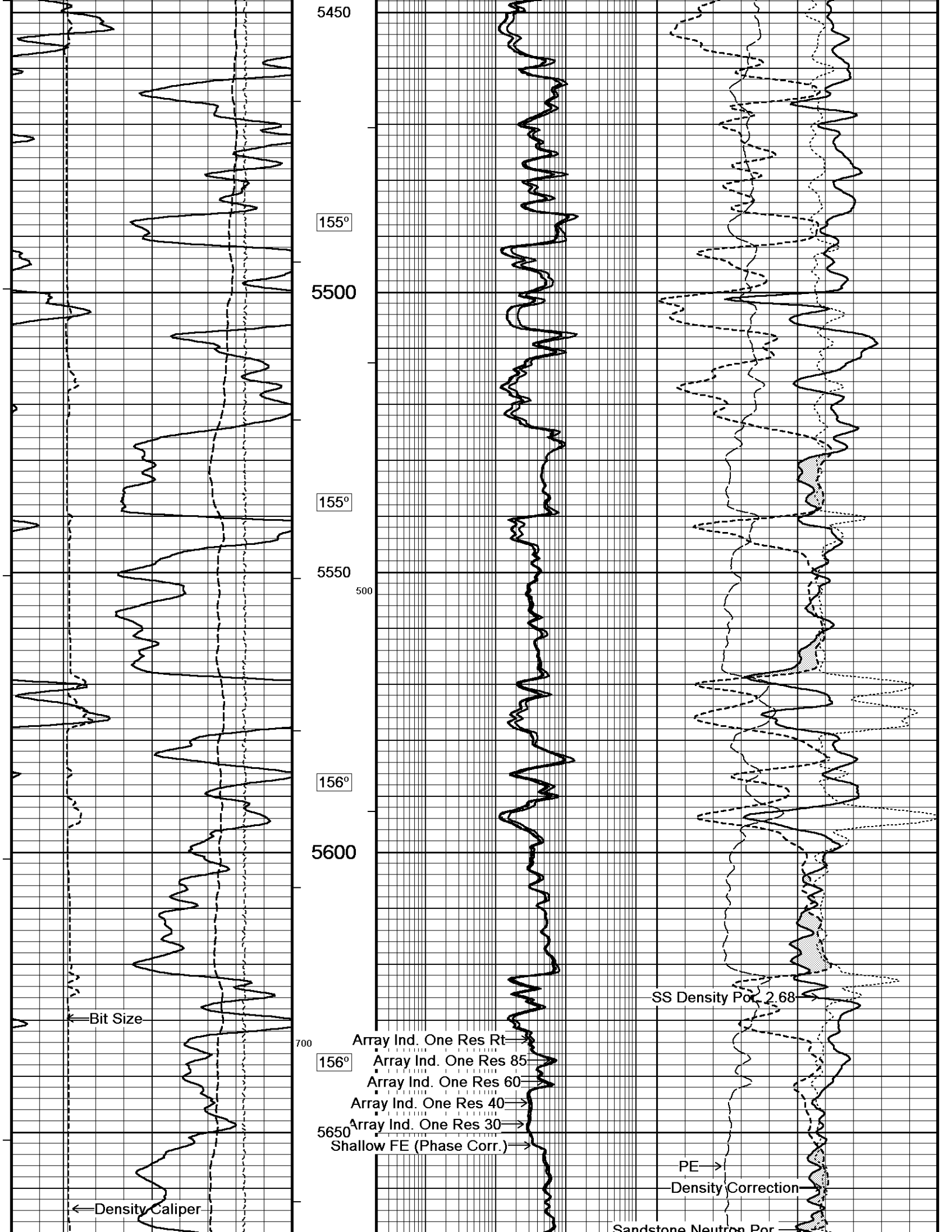

4350
1200
138°
4400
139°
Bit Size
4450
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.65
PE
Density Correction
Density Caliper
Sandstone Neutron Por
140°
Spontaneous Potential
Gamma Ray
DST Uphole Tension
4500
800
141°
4550

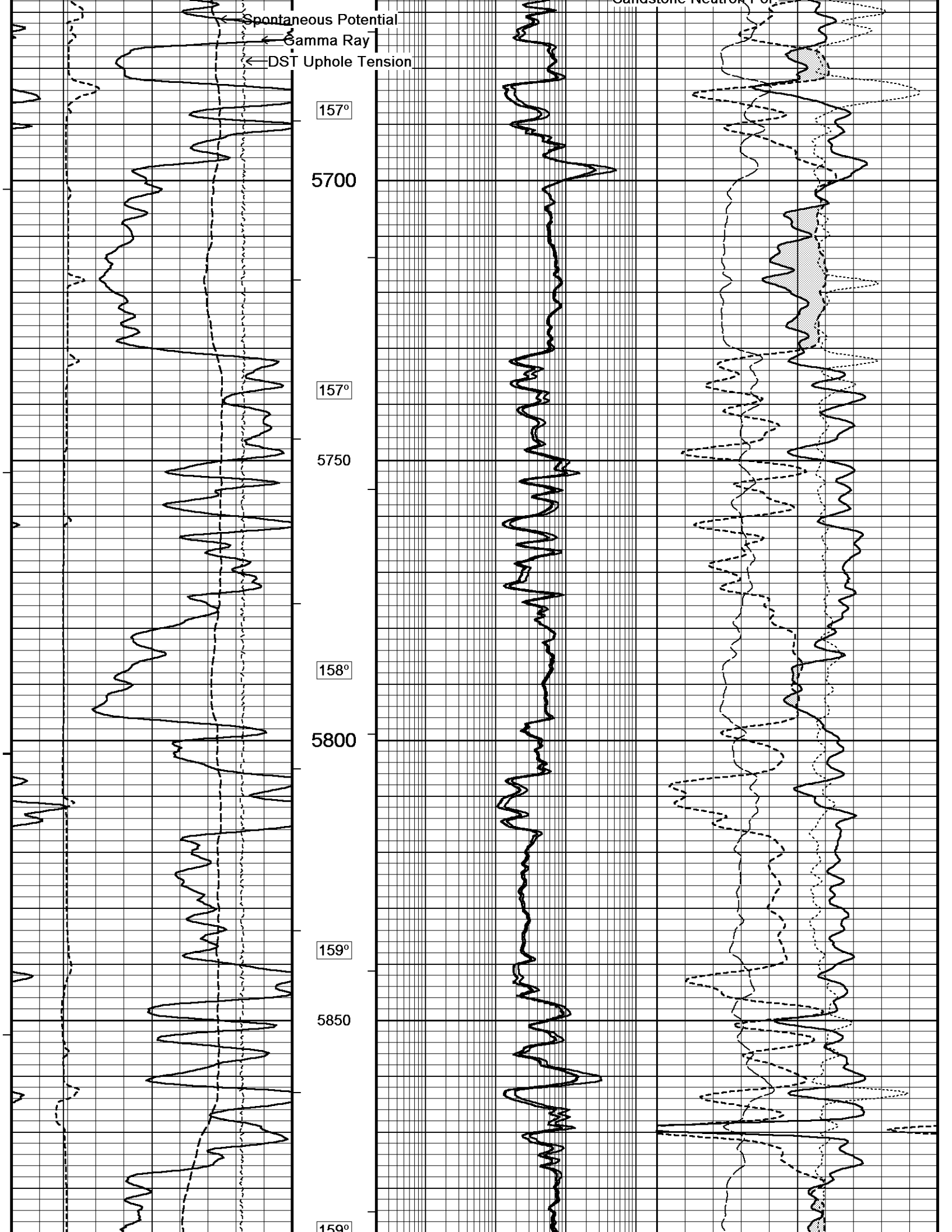

142°
4600
1100
142°
4650
143°
4700
144°
4750
144°

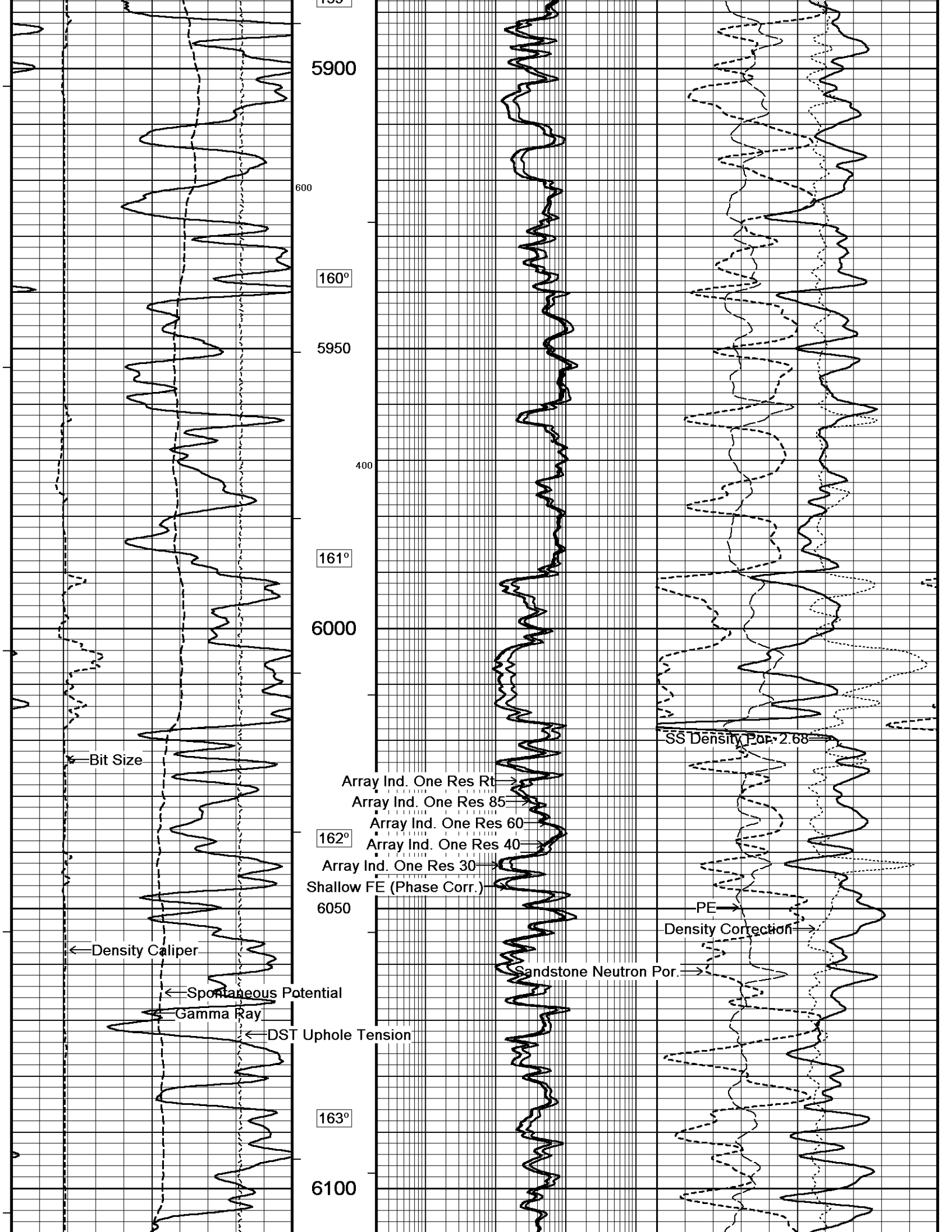

4800
700
1000
145°
SS Density Por. 2.68
Bit Size
Array Ind. One Res Rt
4850
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
146°
DST Uphole Tension
4900
147°
4950
147°
5000


148°
5050
900
149°
5100
600
150°
5150
150°
5200


Bit Size
Density Caliper
Gamma Ray
Spontaneous Potential
DST Uphole Tension
151°
152°
152°
153°
154°
5250
5300
5350
5400
800
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


5450
155°
5500
155°
5550
500
156°
5600
700
156°
5650
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
DST Uphole Tension
157°
5700
157°
5750
158°
5800
159°
5850
159°


5900
600
160°
5950
400
161°
6000
SS Density Por. 2.68
Bit Size
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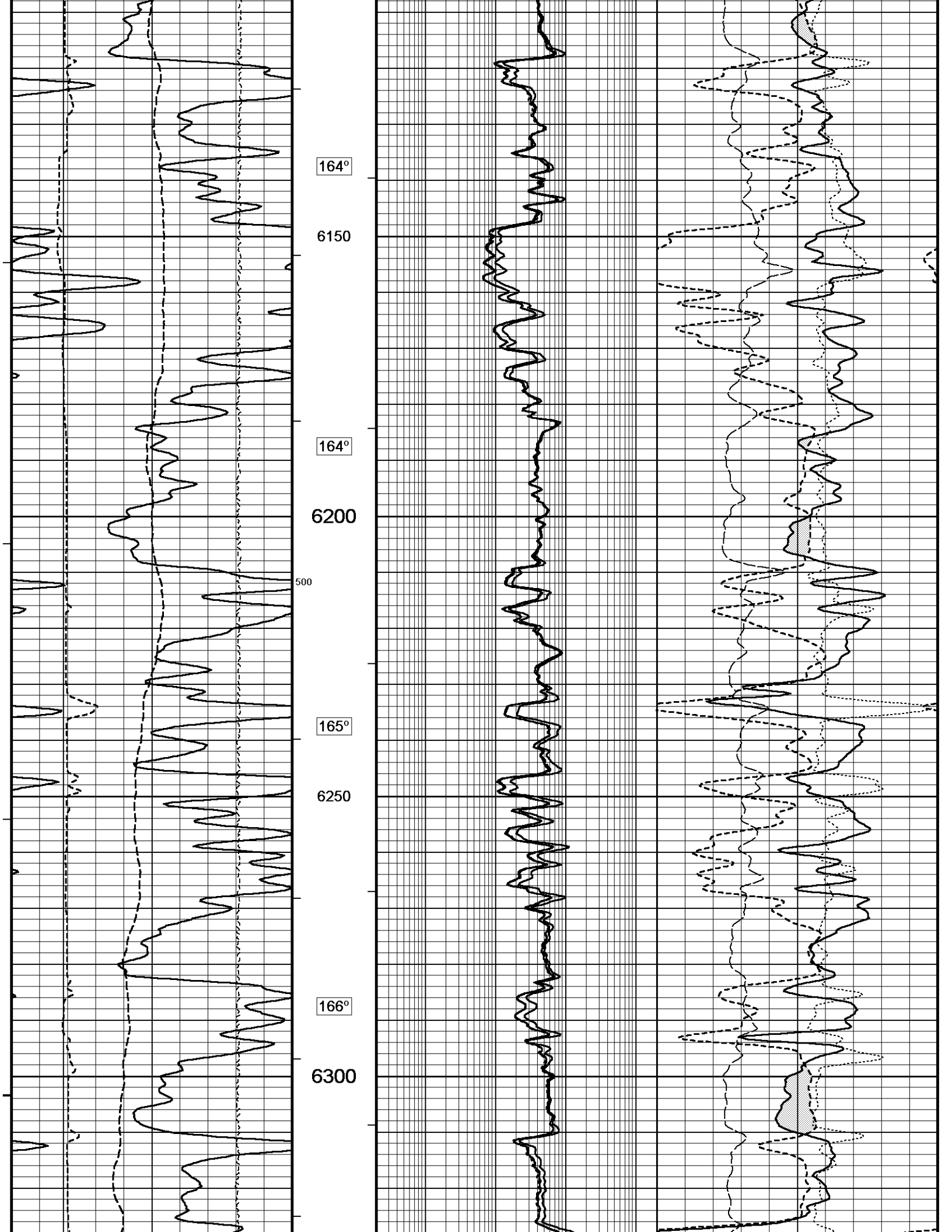
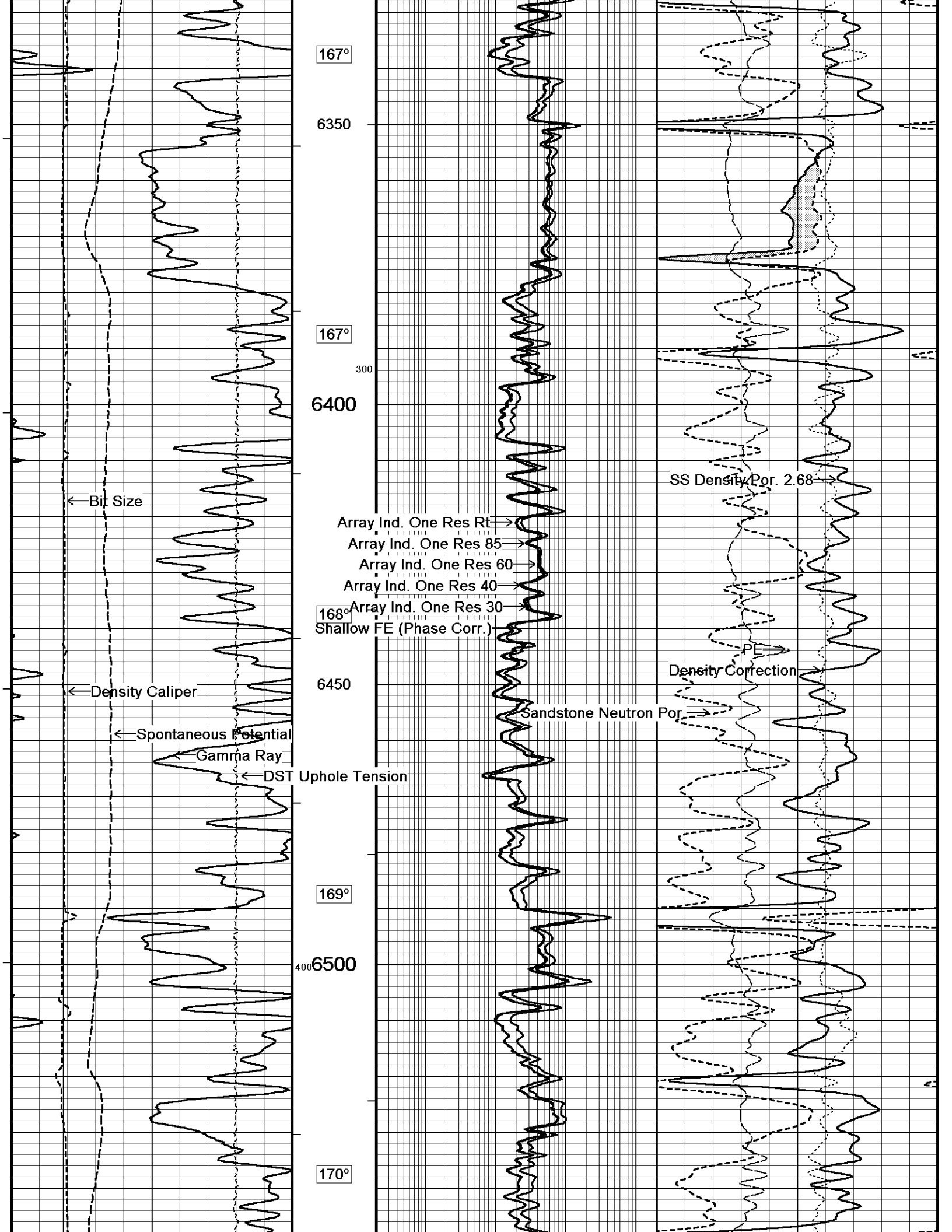
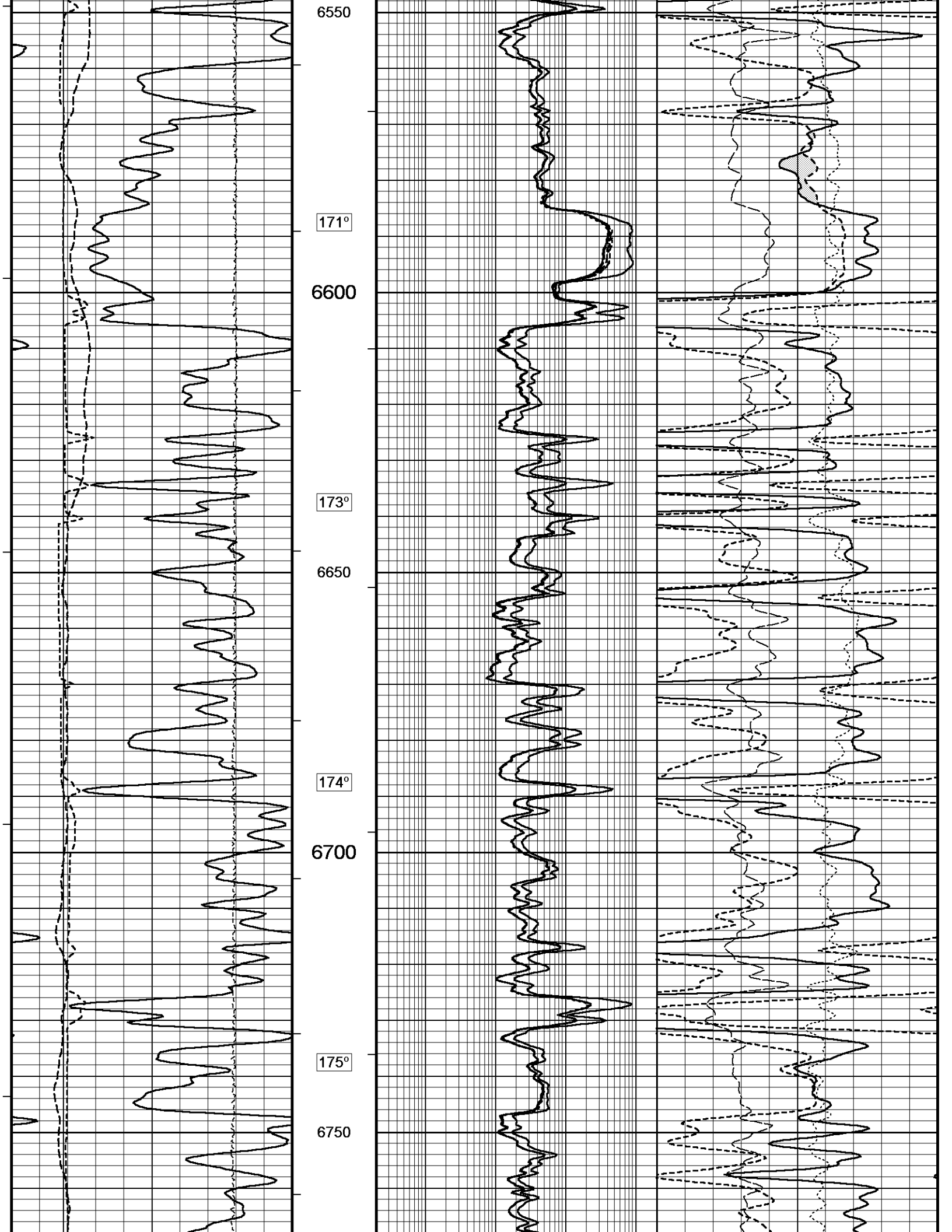
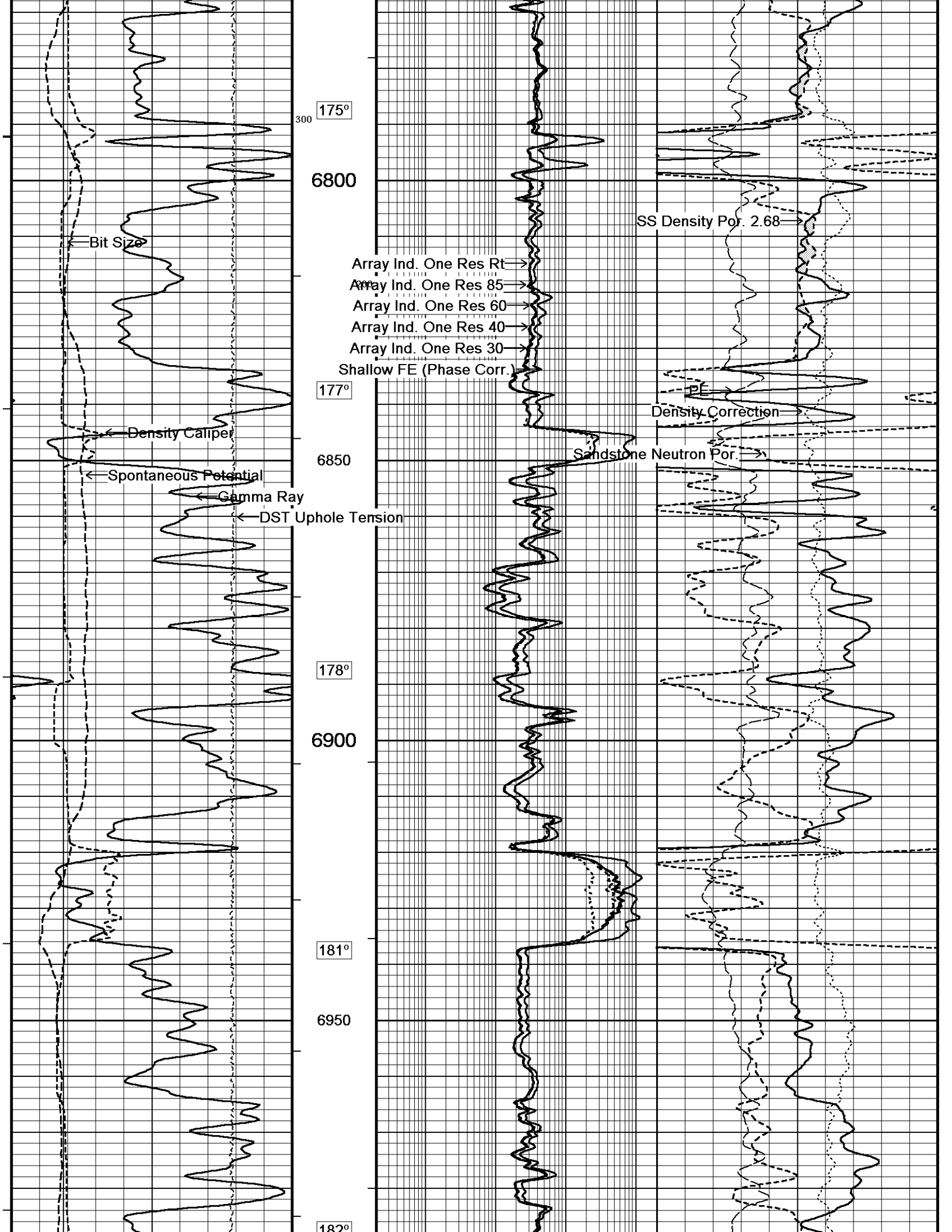
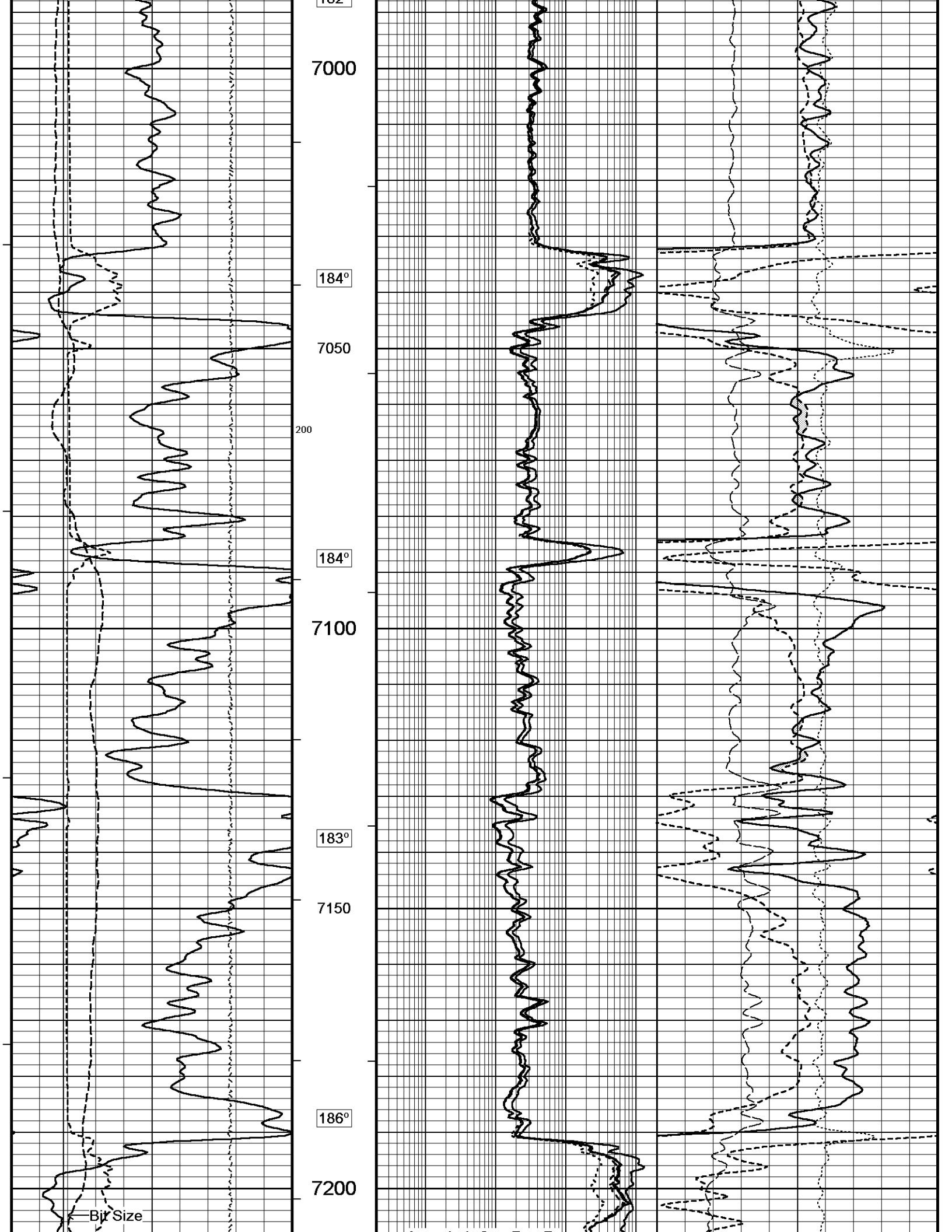
Array Ind. One Res 85
Array Ind. One Res 60
162°
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
6050
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
163°
6100

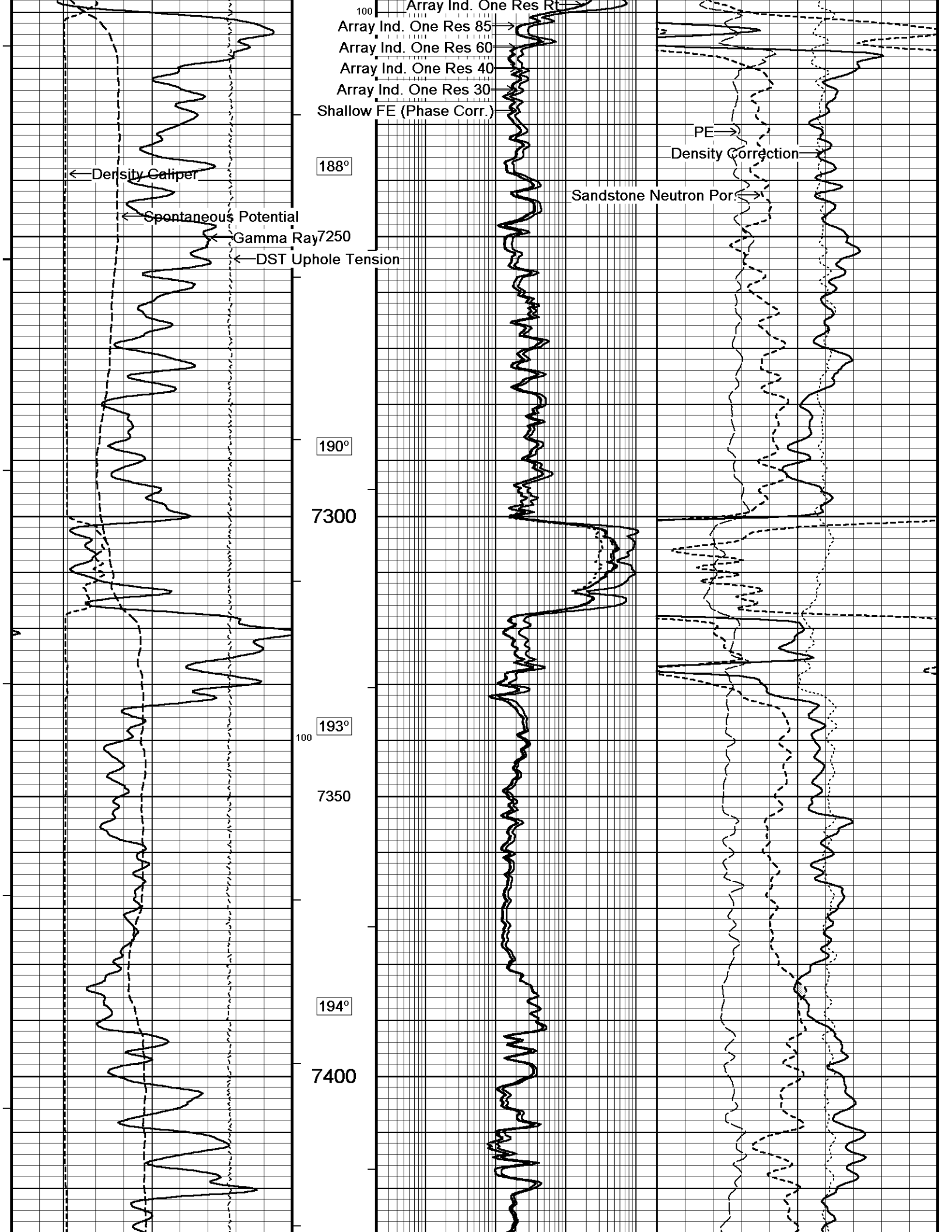

164°
6150
164°
6200
500
165°
6250
166°
6300

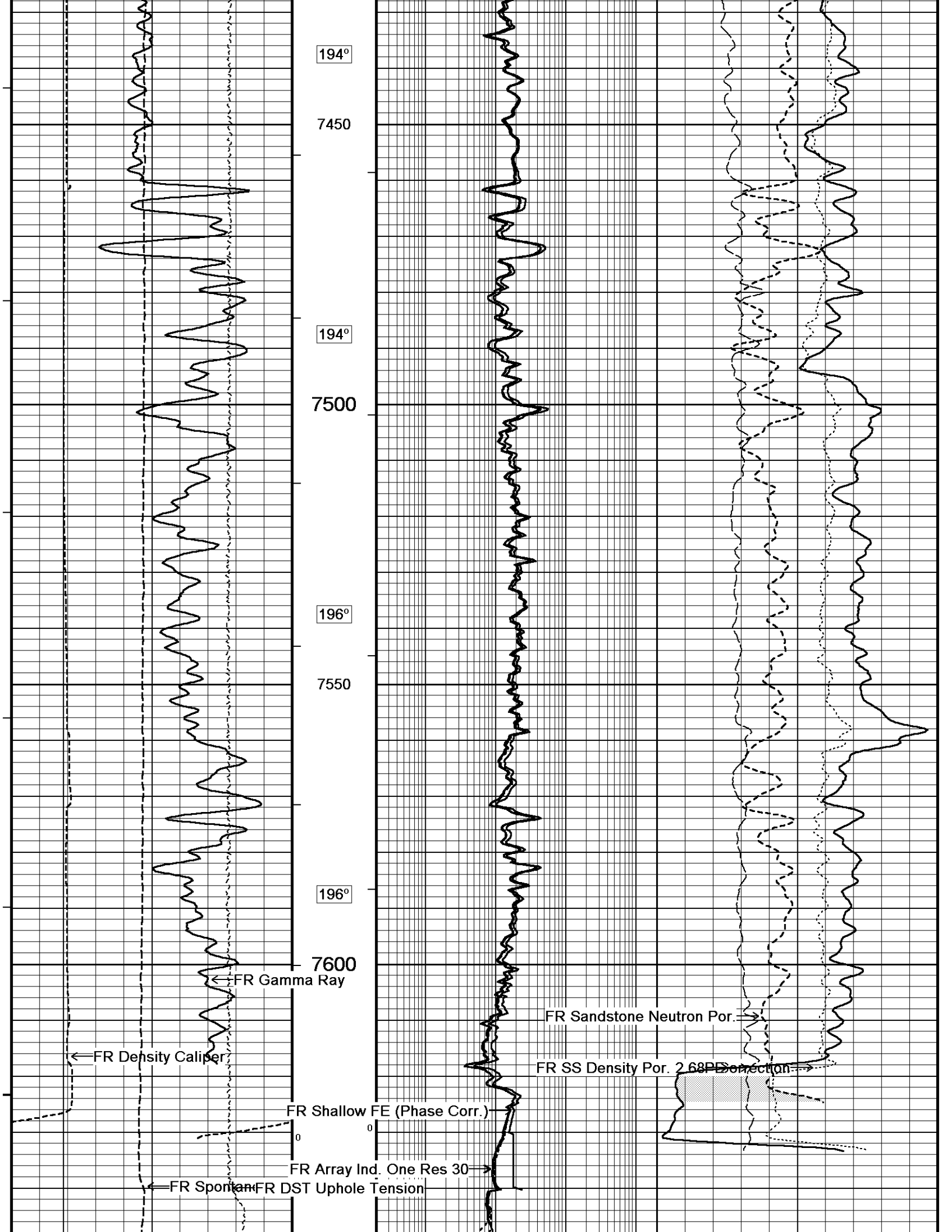

167°
6350
167°
300
6400
SS Density Por. 2.68
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
168°
Shallow FE (Phase Corr.)
PE
Density Correction
6450
Density Caliper
Sandstone Neutron Por
Spontaneous Potential
Gamma Ray
DST Uphole Tension
169°
400
6500
170°

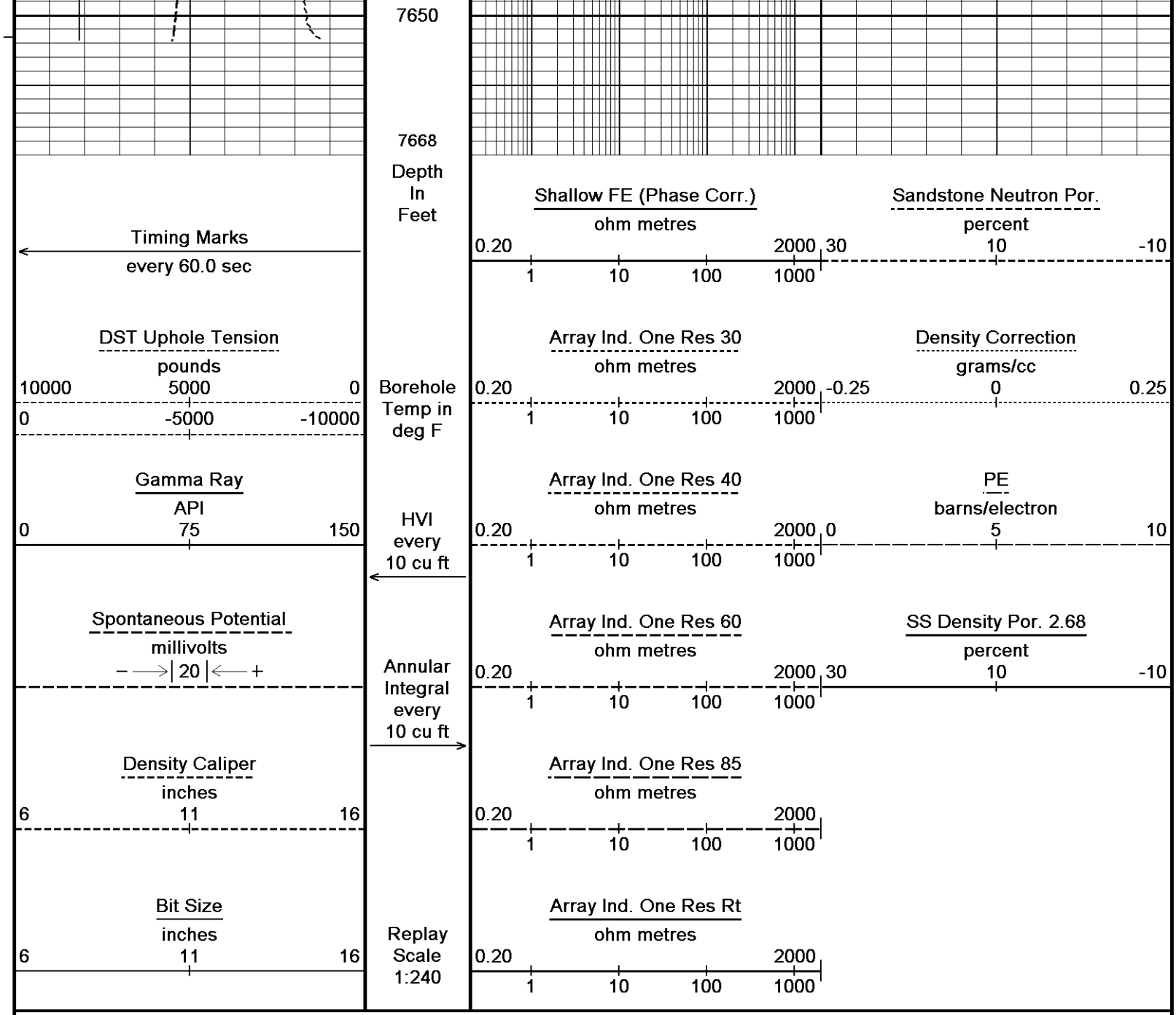

6550
171°
6600
173°
6650
174°
6700
175°
6750


300
175°
6800
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.)
177°
Density Caliper
6850
Spontaneous Potential
Gamma Ray
DST Uphole Tension
178°
6900
181°
6950
182°
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.


182
7000
184°
7050
200
184°
7100
183°
7150
186°
7200
Bit Size


100
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
Sandstone Neutron Por
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
188°
190°
193°
194°
7250
7300
7350
7400
100


194°
7450
194°
7500
196°
7550
196°
7600
FR Gamma Ray
FR Density Caliper
FR Sandstone Neutron Por.
FR SS Density Por. 2.68PEDorrection
FR Shallow FE (Phase Corr.)
0
0
FR Array Ind. One Res 30
FR Spontan
FR DST Uphole Tension

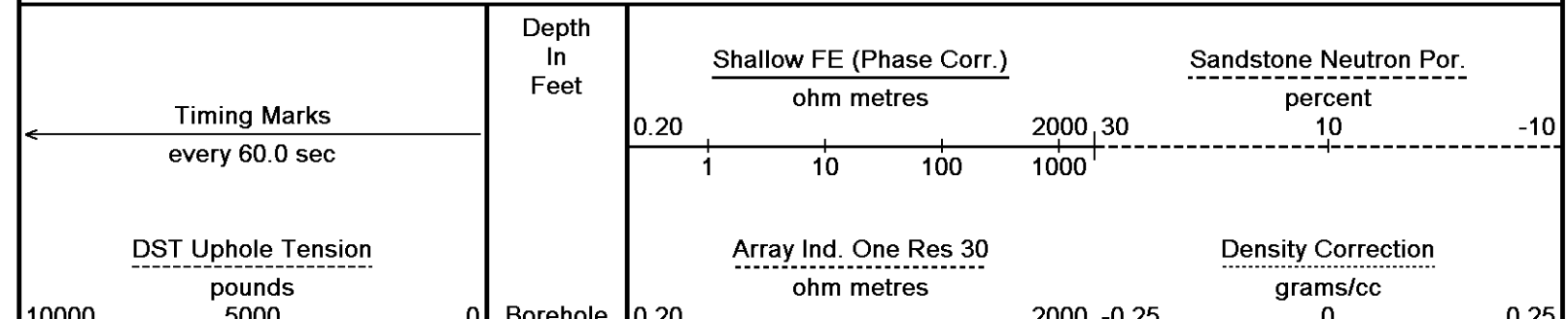


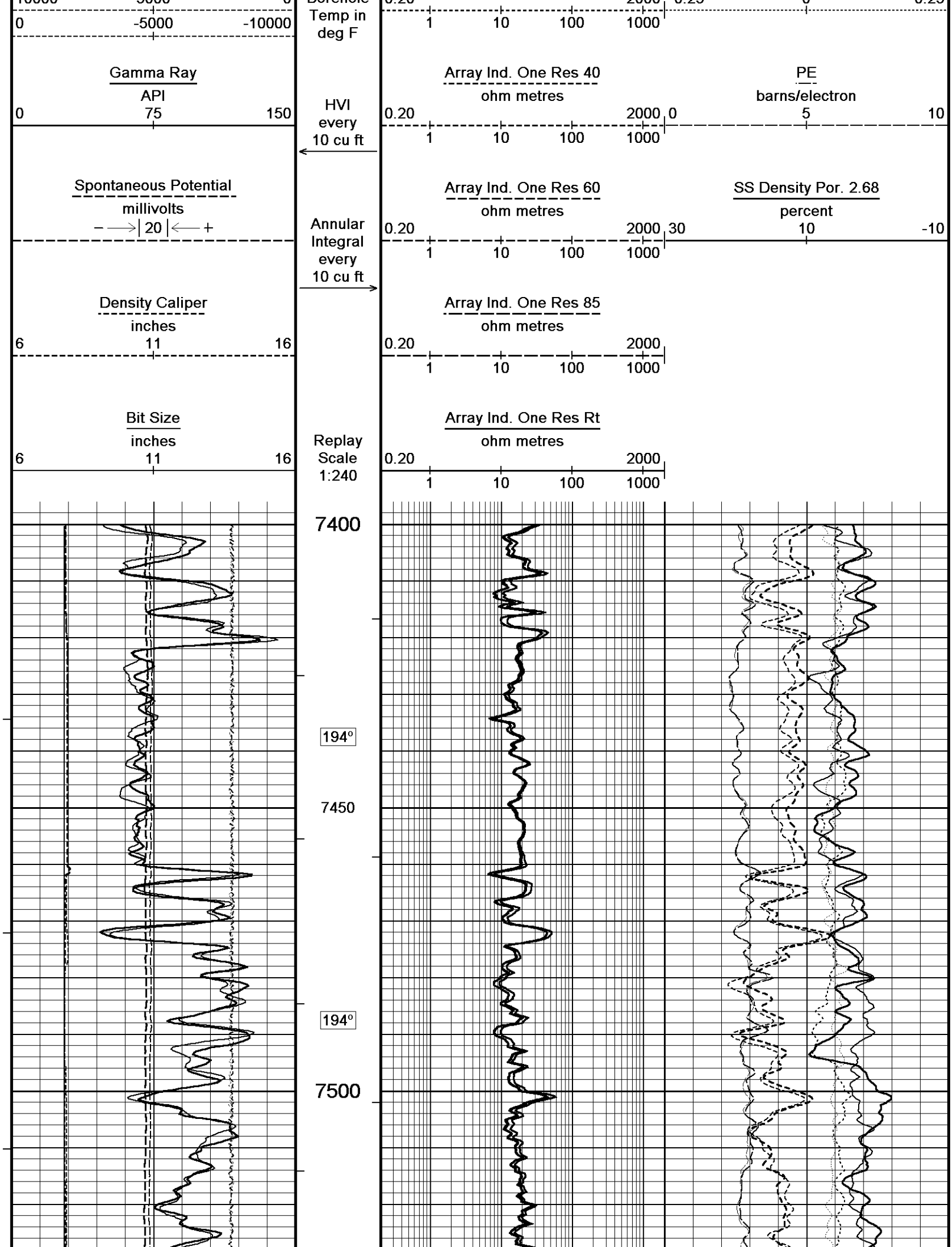
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 16-MAY-2011 03:43
Filename: C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\MAIN.dta
Recorded on 16-MAY-2011 00:18
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

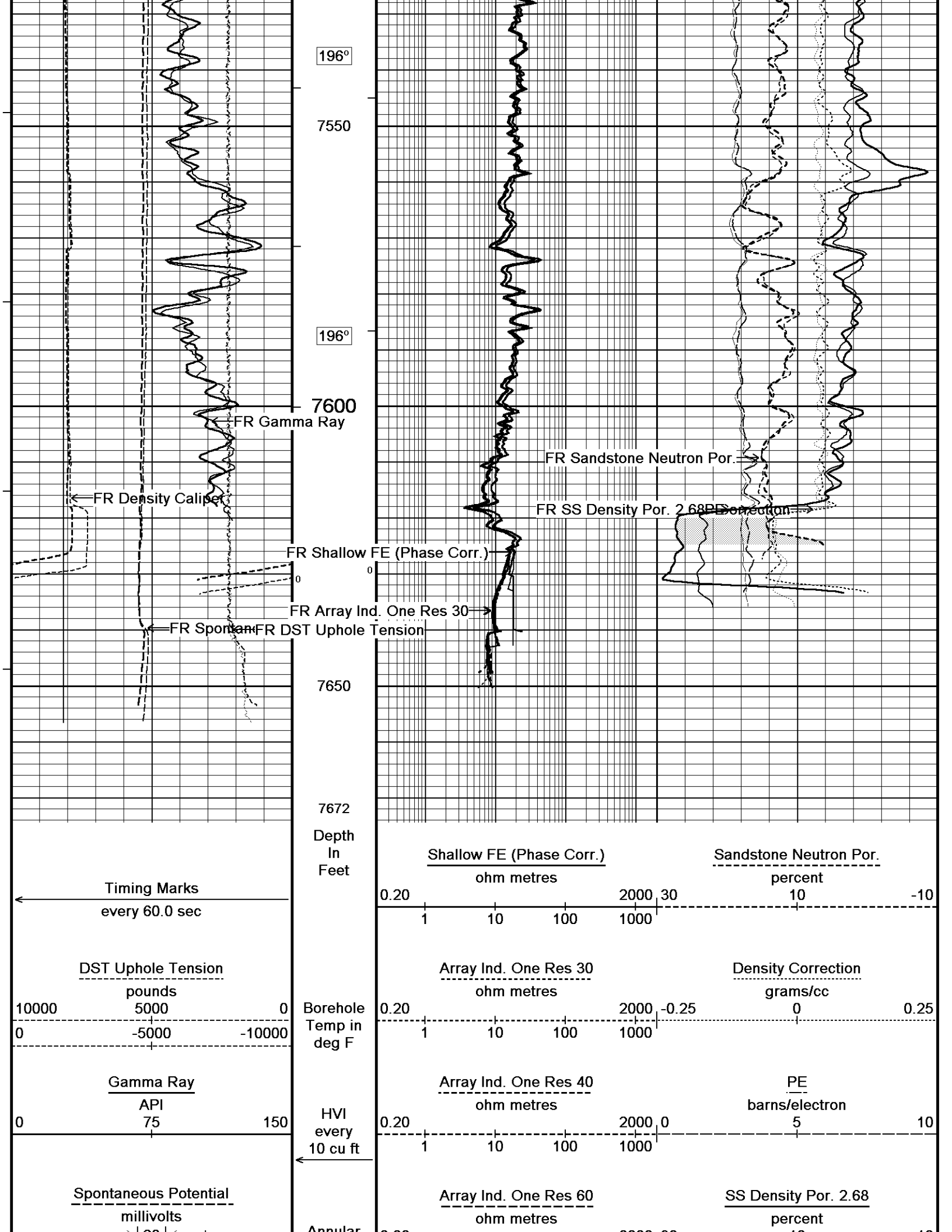
5 INCH MAIN LOG

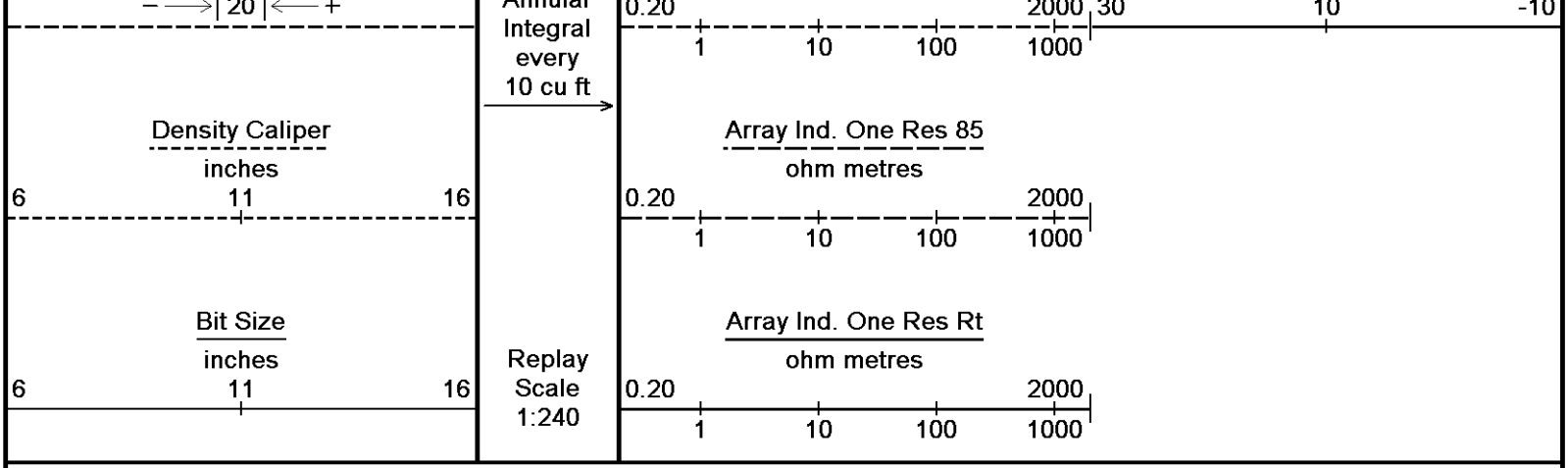
OVERLAY

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 16-MAY-2011 03:43
Filename: C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\MAIN.dta
Recorded on 16-MAY-2011 00:18
Filename: C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\REPEAT.dta
Recorded on 15-MAY-2011 23:58
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186




0
-5000
-10000
Borehole Temp in deg F
1
10
100
1000
Gamma Ray
API
0
75
150
HVI every 10 cu ft
Array Ind. One Res 40
ohm metres
0.20
2000
PE
barns/electron
0
5
10
Spontaneous Potential
millivolts
20
Array Ind. One Res 60
SS Density Por. 2.68
percent
30
-10
Annular Integral every 10 cu ft
Density Caliper
inches
6
11
16
Array Ind. One Res 85
Bit Size
Replay Scale 1:240
Array Ind. One Res Rt
7400
194°
7450
7500


196°
7550
196°
7600
FR Gamma Ray
FR Density Caliper
FR Sandstone Neutron Por.
FR SS Density Por. 2.68PE Correction
FR Shallow FE (Phase Corr.)
0
0
FR Array Ind. One Res 30
FR Spontan
FR DST Uphole Tension
7650
7672
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
Borehole Temp in deg F
Array Ind. One Res 30
ohm metres
0.20
2000
1
10
100
1000
Density Correction
grams/cc
-0.25
0
0.25
Gamma Ray
API
0
75
150
HVI
every 10 cu ft
Array Ind. One Res 40
ohm metres
0.20
2000
1
10
100
1000
PE
barns/electron
0
5
10
Spontaneous Potential
millivolts
Array Ind. One Res 60
ohm metres
SS Density Por. 2.68
percent
Annular



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 16-MAY-2011 03:43
Filename: C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\MAIN.dta — Recorded on 16-MAY-2011 00:18
Filename: C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\REPEAT.dta — Recorded on 15-MAY-2011 23:58
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

OVERLAY

BEFORE SURVEY CALIBRATION

C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\setup.dta

General Constants All 000

Last Edited on 15-MAY-2011,19:55

General Parameters		
Mud Resistivity	2.870	ohm-metres
Mud Resistivity Temperature	75.200	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	Density Caliper	
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 14-MAY-2011 07:41

Reading No	Measured	Calibrated (lbs)
1	14777.77	0.00
2	16127.37	368.00

High Resolution Temperature Calibration MCG-D.A 287

Field Calibration on 15-MAY-2011,19:35

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

High Resolution Temperature Constants MCG-D.A 287

Last Edited on 22-FEB-2011,07:38

Pre-filter Length	11

SP Calibration MCG-D.A 287

Field Calibration on 15-MAY-2011,19:35

	Measured	Calibrated (mV)
Reference 1	103.8	100.2
Reference 2	-96.9	-100.2

Gamma Calibration MCG-D.A 287

Field Calibration on 15-MAY-2011 19:35

	Measured	Calibrated (API)
Background	113	79
Calibrator (Gross)	864	606
Calibrator (Net)	751	527

Gamma Constants MCG-D.A 287

Last Edited on 14-MAY-2011,05:00

Gamma Calibrator Number	GRC-174	
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 306

Base Calibration on 05-APR-2011 16:34
Field Check on 15-MAY-2011 19:43

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2836	89	3714	110
Ratio	31.929		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1451	2165
Ratio	0.670	

Field Check

	Calibrated (cps)	
	2366	3473
Ratio	0.681	

Neutron Constants MDN-B.A 306

Last Edited on 15-MAY-2011,19:54

Neutron Source Id	P44384B	
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-B.A 179

Base Calibration on 13-MAY-2011 11:35
Field Check on 15-MAY-2011 22:43

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	962.7	126.8
Base Check		280.5
Field Check		280.4

FE Constants MFE-B.A 179

Last Edited on 14-MAY-2011,04:57

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 301

Field Calibration on 15-MAY-2011,19:53

	Measured	Calibrated(Deg F)

Lower	10.00	50.00
Upper	100.00	212.00

High Resolution Temperature Constants MAI-B.A 301

Last Edited on 07-FEB-2011,07:23

Pre-filter Length	11

Induction Calibration MAI-B.A 301

Base Calibration on 09-JUN-2010,11:38
Field Check on 15-MAY-2011 22:46

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	17.5	487.4	9.3	966.2
2	5.9	392.1	7.6	821.4
3	3.8	259.5	5.2	566.0
4	2.0	137.2	2.6	279.2

Array Temperature 71.1 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	13.1	3733.7
2	0.0	0.0	30.3	3443.8
3	0.0	0.0	28.3	3058.3
4	0.0	0.0	19.1	2020.0
Deep	0.0	0.0	16.6	2016.3
Medium	0.0	0.0	41.8	4068.6
Shallow	0.0	0.0	46.3	5041.0
Array Temperature	0.0		79.9	Deg F

Induction Constants MAI-B.A 301

Last Edited on 15-MAY-2011,19:53

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 220

Base Calibration on 26-APR-2011 15:05

Field Calibration on 15-MAY-2011,19:52

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14704	4.00
2	23040	5.96
3	31024	7.98
4	39153	9.86
5	48095	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.81	8.92

Photo Density Calibration MPD-C.A 220

Base Calibration on 26-APR-2011 14:52
Field Check on 15-MAY-2011 19:51

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	54238	17457	53237	19445
Reference 2	24659	2427	25135	2545

Field Check at Base

1182.2	1196.0

Field Check

1178.5	1197.1

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	212	1044		
Reference 1	18412	54044	0.343	0.320
Reference 2	6811	24512	0.281	0.274

Field Check at Base

212.4	1044.3

Field Check

210.7	1043.6

Density Constants MPD-C.A 220

Last Edited on 15-MAY-2011,19:52

Density Source Id	P44263B	
Nylon Calibrator Number	532	
Aluminium Calibrator Number	532	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.23	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\CB-TG Land 21A-20-692\MAIN.dta

FE Check MFE-B.A 179

Before Survey Check 14-MAY-2011 04:29
After Survey Check on 14-MAY-2011 12:21

Before (ohm-m)	After (ohm-m)
280.5	280.7

Induction Check MAI-B.A 301

Before Survey Check on
After Survey Check on 14-MAY-2011 12:20

Channel	Before Survey (mmho/m) Low	Before Survey (mmho/m) High	After Survey (mmho/m) Low	After Survey (mmho/m) High
1	0.0	0.0	13.3	3731.5
2	0.0	0.0	30.3	3442.2
3	0.0	0.0	28.2	3057.2
4	0.0	0.0	19.1	2019.1
Deep	0.0	0.0	16.6	2015.7
Medium	0.0	0.0	41.7	4067.3
Shallow	0.0	0.0	46.2	5038.5
Array Temperature		0.0		84.6 Deg F

DOWNHOLE EQUIPMENT

C:\Minimus\LOGS\Bill Barrett\CB-TG Land 21A-20-692\MAIN.dta

3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

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

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

Compact Neutron
MDN-B.A 306 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

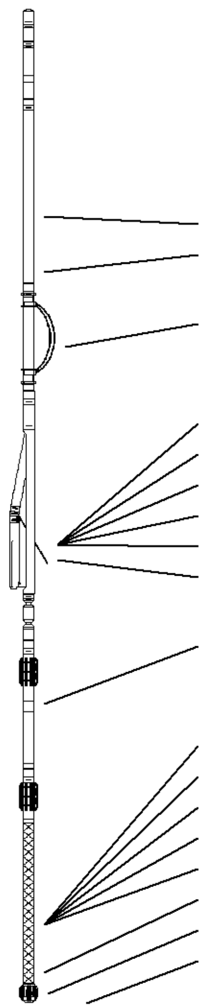
Compact Density/Caliper
MPD-C.A 220 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 115 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-B.A 179 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.A 301 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 46.67 ft Weight: 368.2 lb



37.07 ft GRGC - Gamma Ray
34.16 ft CGXT - MCG External Temperature
30.61 ft NPRS - Sandstone Neutron Por.
23.37 ft AVOL - Annular Volume
23.37 ft HVOL - Hole Volume
23.37 ft CLDC - Density Caliper
21.44 ft DPOR - Base Density Porosity
21.44 ft DCOR - Density Correction
21.38 ft PDPE - PE
13.72 ft FEFC - Shallow FE (Phase Corr.)
3.34 ft R40O - Array Ind. One Res 40
3.34 ft R30O - Array Ind. One Res 30
3.34 ft RTAO - Array Ind. One Res Rt
3.34 ft R85O - Array Ind. One Res 85
3.34 ft R60O - Array Ind. One Res 60
0.23 ft SPCG - Spontaneous Potential
Tool Zero (0.13ft from bottom)
-0.13 ft SMTU - DST Uphole Tension
All measurements relative to tool zero.

COMPANY	BILL BARRETT CORPORATION
WELL	CB-TG LAND 21A-20-692
FIELD	MAMM CREEK
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing 5553.00 feet | First Reading 7637.00

Elevation Drill Floor	5552.00	feet	Depth Driller	7641.00	feet
Elevation Ground Level	5530.00	feet	Depth Logger	7640.00	feet

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