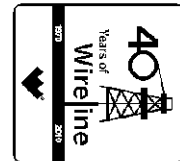




Weatherford[®]

**COMPACT TRIPLE COMBO
QUICKLOOK
LOG**

COMPANY **BILL BARRETT CORPORATION**
WELL **KAUFMAN 22C-25-692**
FIELD **MAMM CREEK**
PROVINCE/COUNTY **GARFIELD**
COUNTRY/STATE **U.S.A. / COLORADO**
LOCATION **SHL: 2182' FSL & 1633' FWL**
BHL: 1805' FNL & 1980' FWL



SEC 25 TWP 6S RGE 92W Other Services
API Number 05-045-19654
Permit Number

Permanent Datum G.L., Elevation 5922 feet
Log Measured From KB above Permanent Datum
Drilling Measured From K.B. @ 23 FT.
Date 12-JULY-2011

Elevations: feet
KB 5945.00
DF 5944.00
GL 5922.00

Run Number	ONE	
Depth Driller	7732.00	feet
Depth Logger	7731.00	feet
First Reading	7728.00	
Last Reading	856.00	
Casing Driller	852.00	feet
Casing Logger	856.00	feet
Bit Size	7.875	inches
Hole Fluid Type	LSND	
Density / Viscosity	10.70 lb/USg	52.00 CP
PH / Fluid Loss	9.00	7.60 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	2.77 @ 91.0	ohm-m
Rmf @ Measured Temp	2.21 @ 91.0	ohm-m
Rmc @ Measured Temp	3.32 @ 91.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	1.32 @195.0	ohm-m
Time Since Circulation	5 HOURS	
Max Recorded Temp	195.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13173	GD JCT
Recorded By	M.RICHINS	
Witnessed By	C.CROW	

BOREHOLE RECORD

Last Edited: 12-JUL-2011 16:03

Bit Size inches	Depth From feet	Depth To feet
8.750	852.00	5974.00
7.880	5974.00	7732.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	852.00	36.00

REMARKS

LOGGING SOFTWARE USED: 11.03.3657

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

HARDWARE: MPD: 4 INCH PROFILE PLATE USED.
TWO 0.5 INCH STANDOFFS USED ON INDUCTION.
DUAL BOWSPRING USED ON NEUTRON.

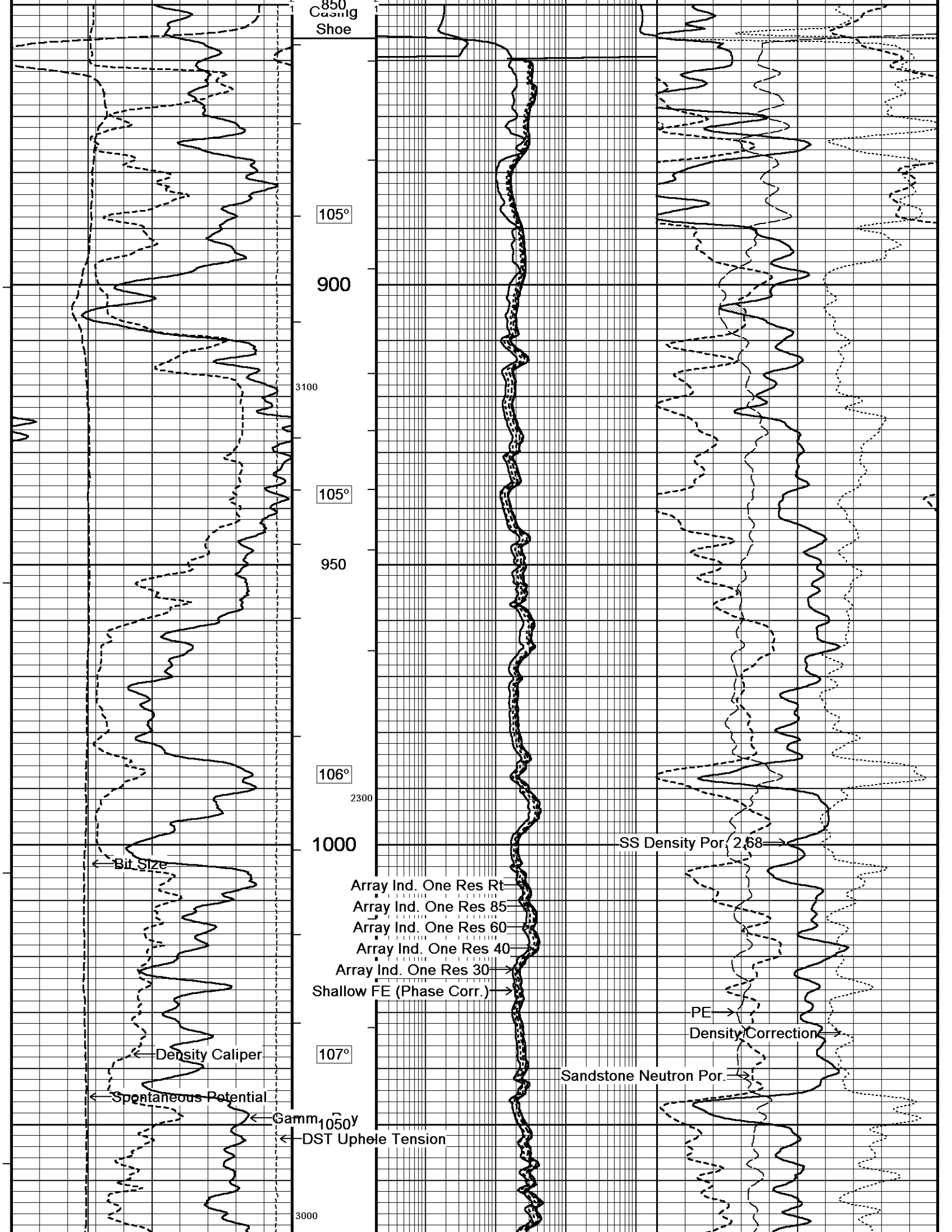
2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

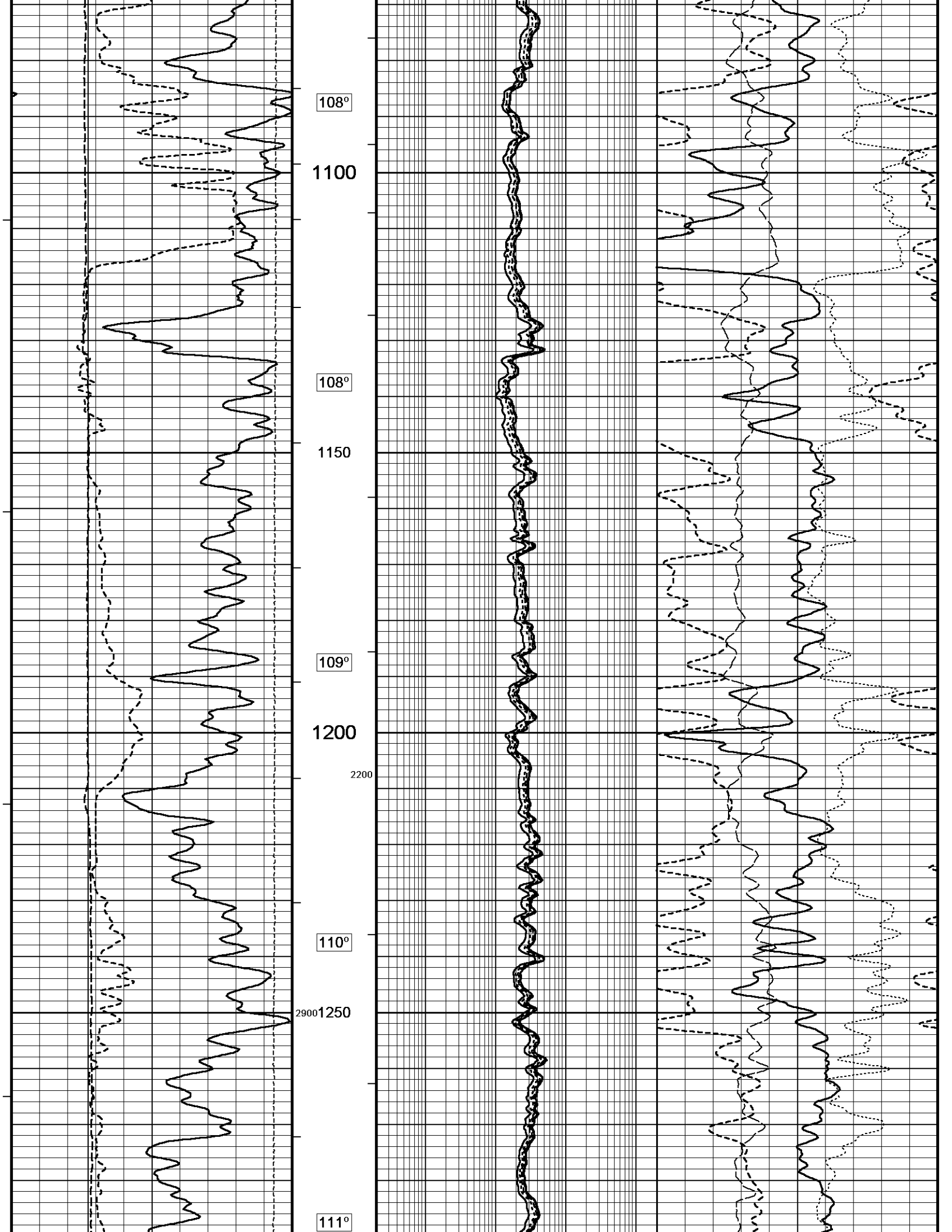
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

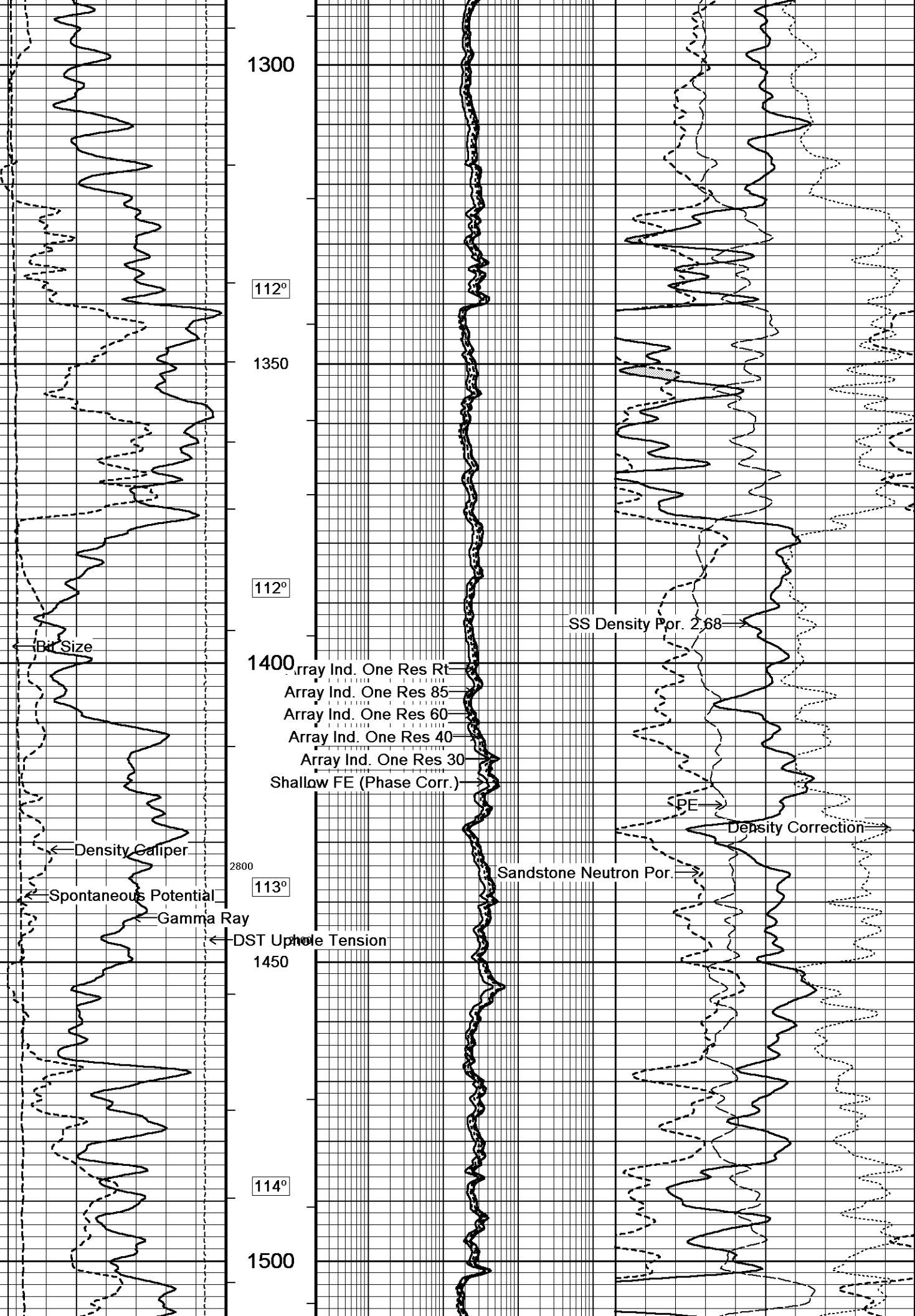
TIGHT PULLS, BOREHOLE SIZE, AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.

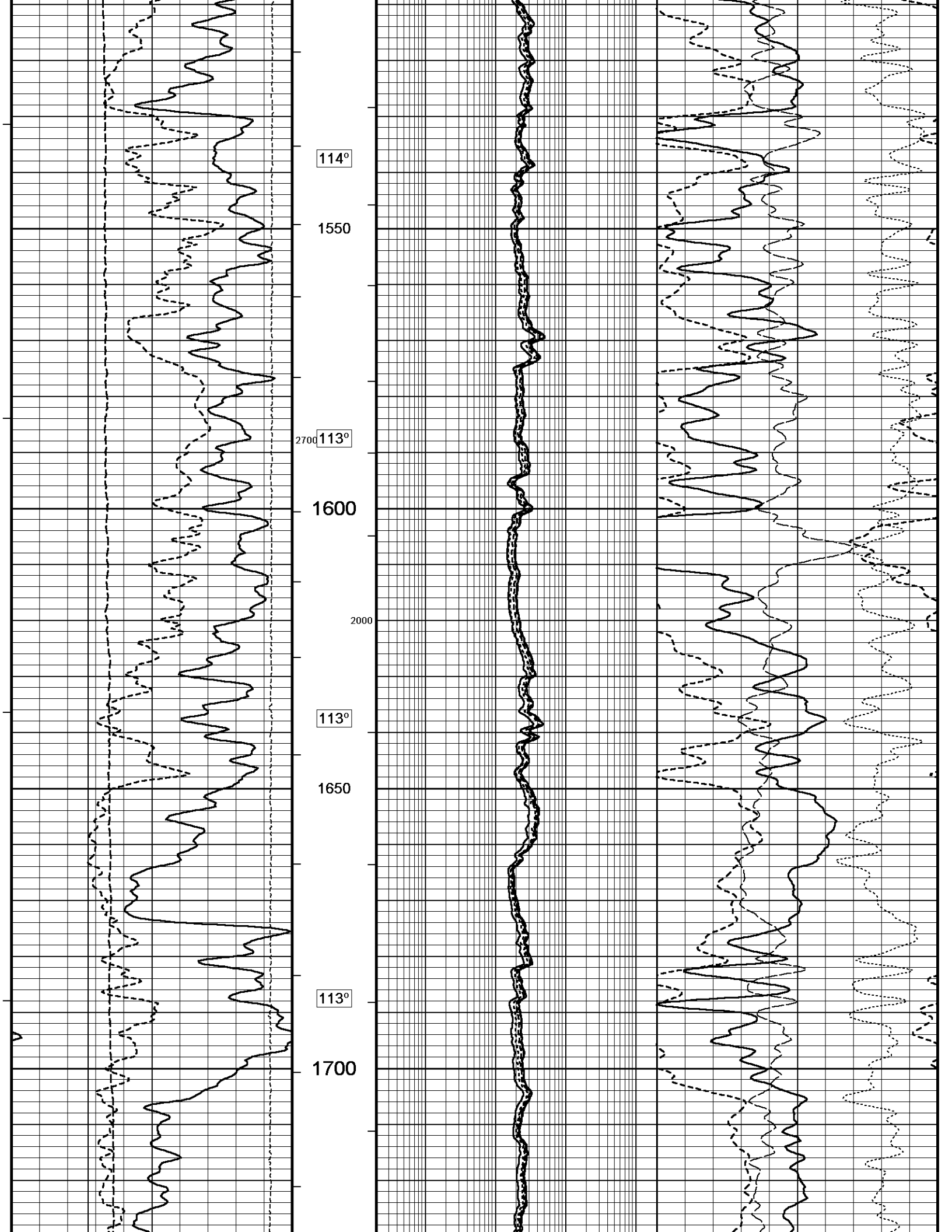
SP FISH MOVED NEAR BOTTOM TO IMPROVE TOOL RESPOSE.

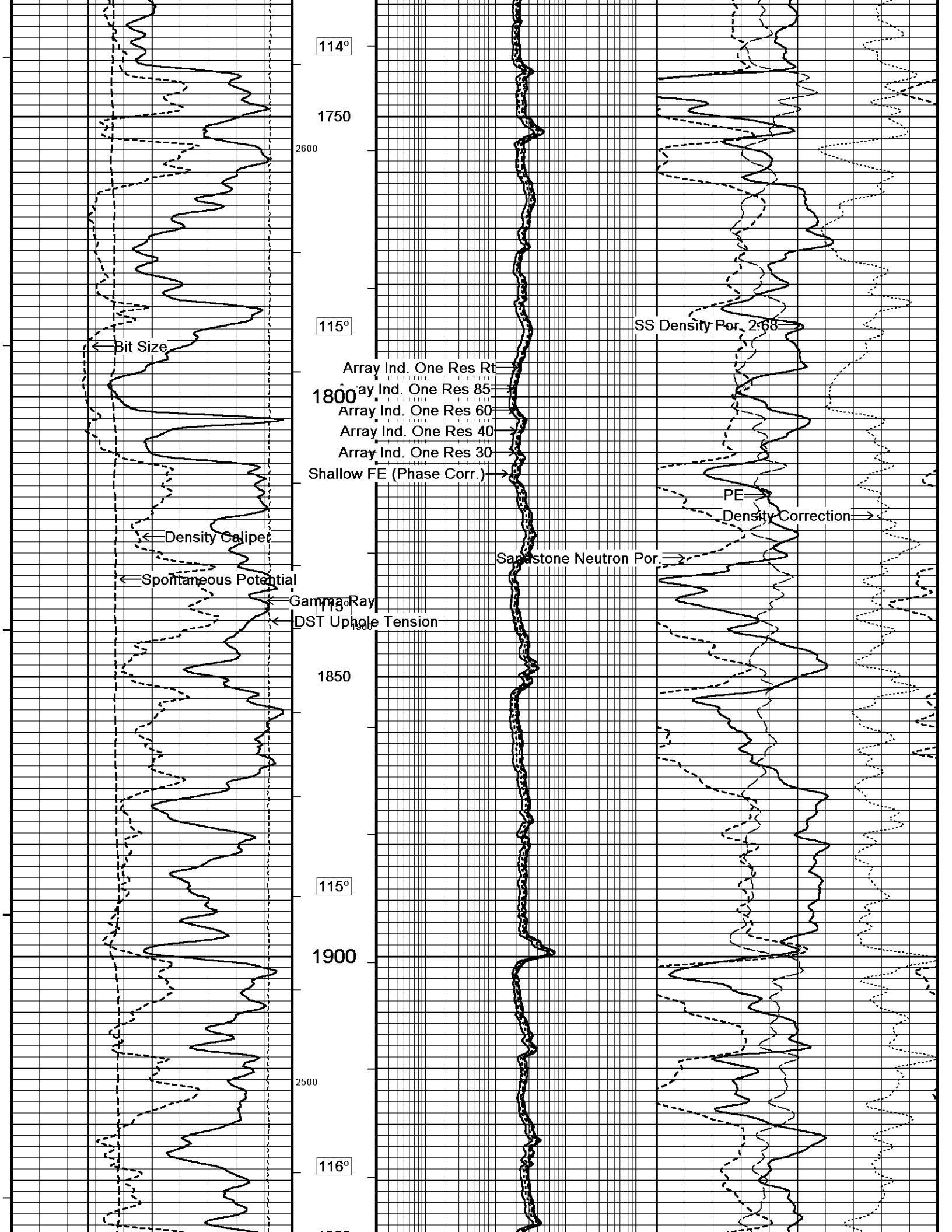
REPEAT SECTION RECORDED 200 FEET OFF BOTTOM DUE TO TIGHT PULLS AND BRIDGE SECTIONS ENCOUNTERED UPON

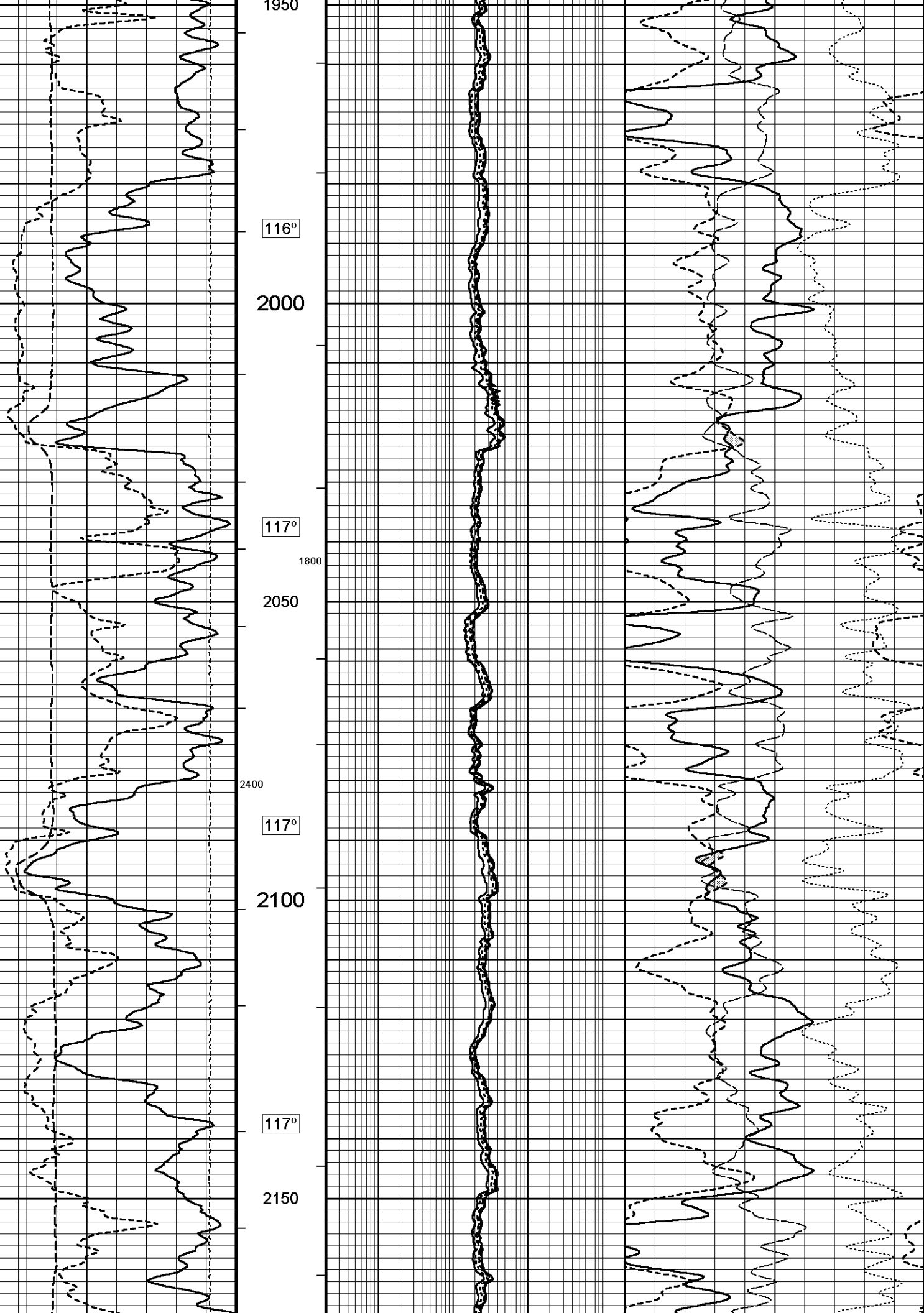


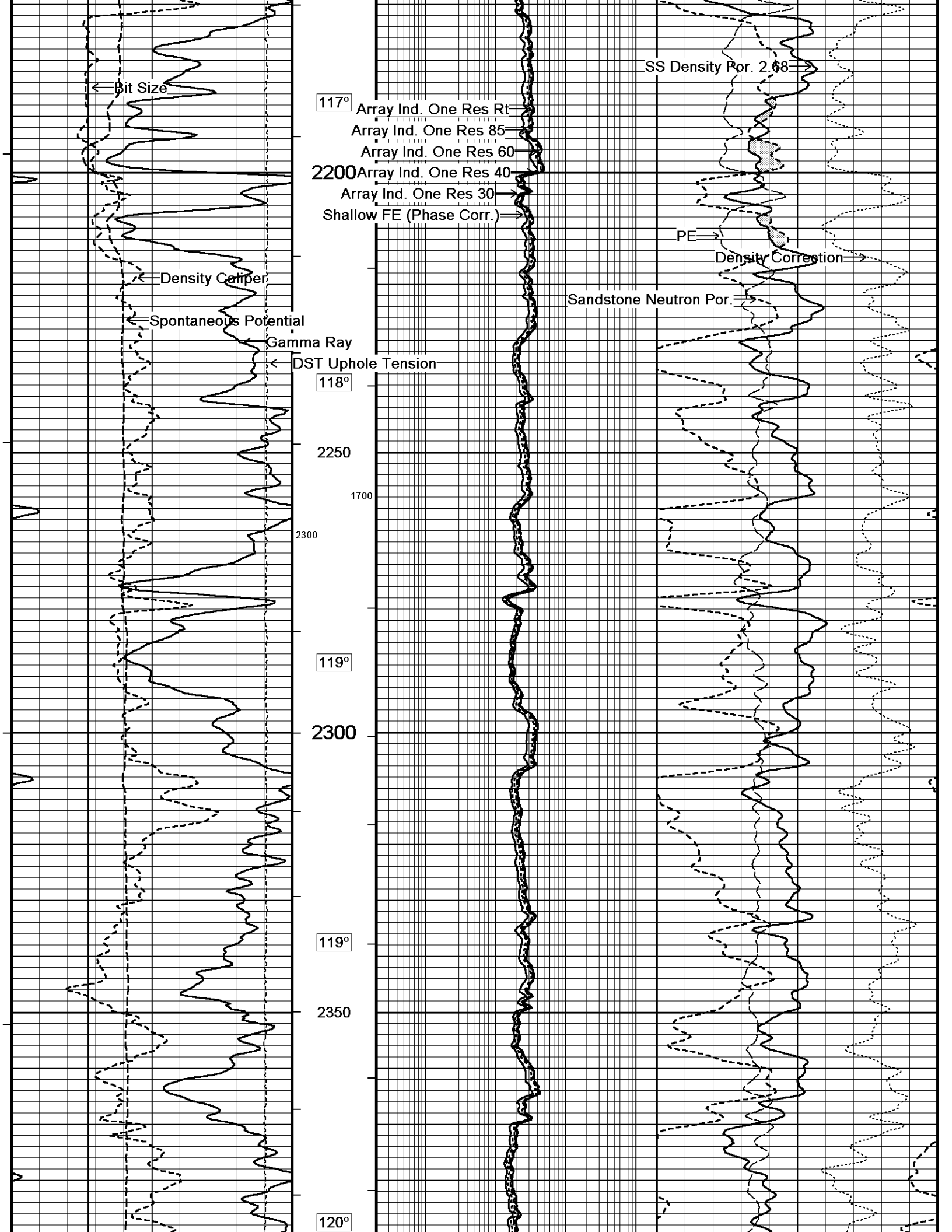


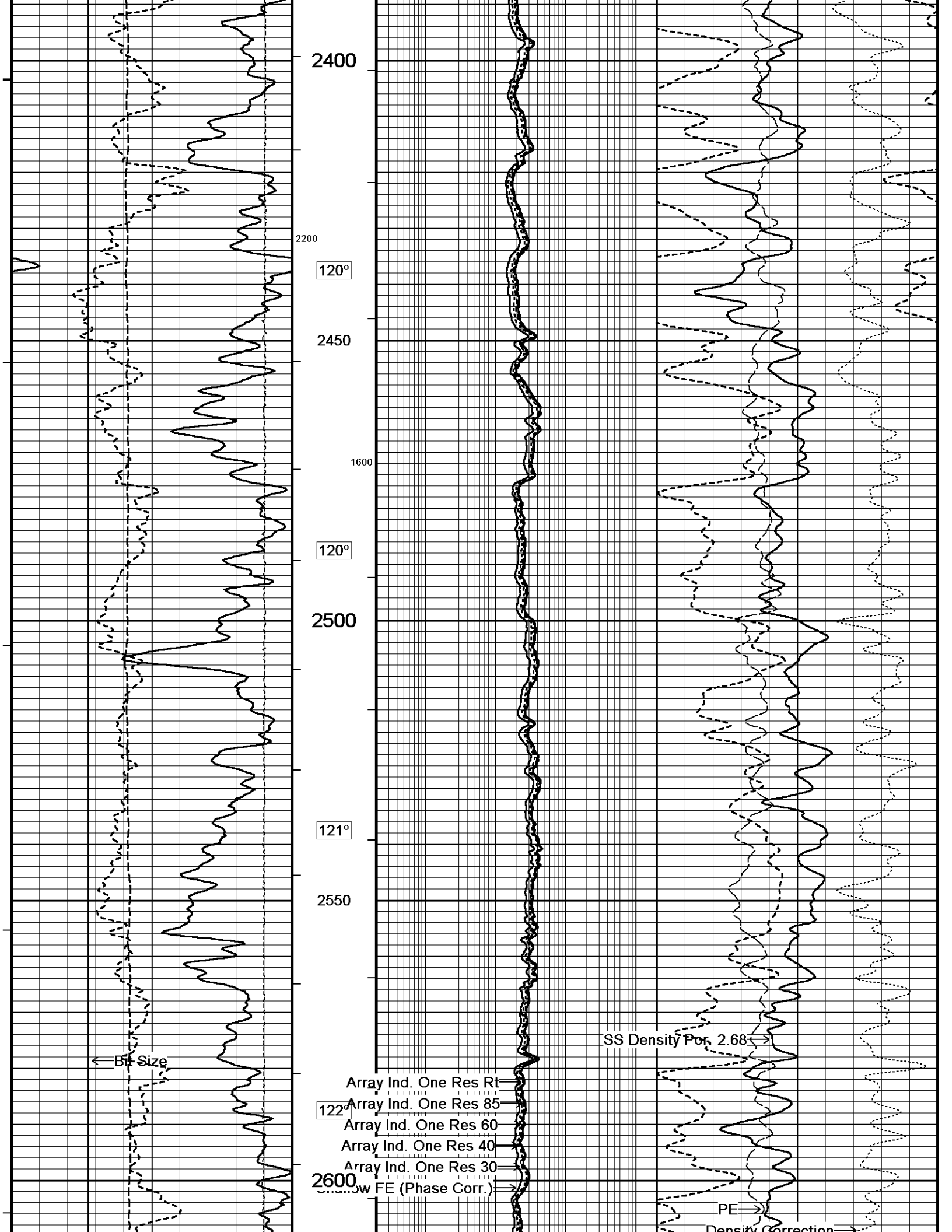


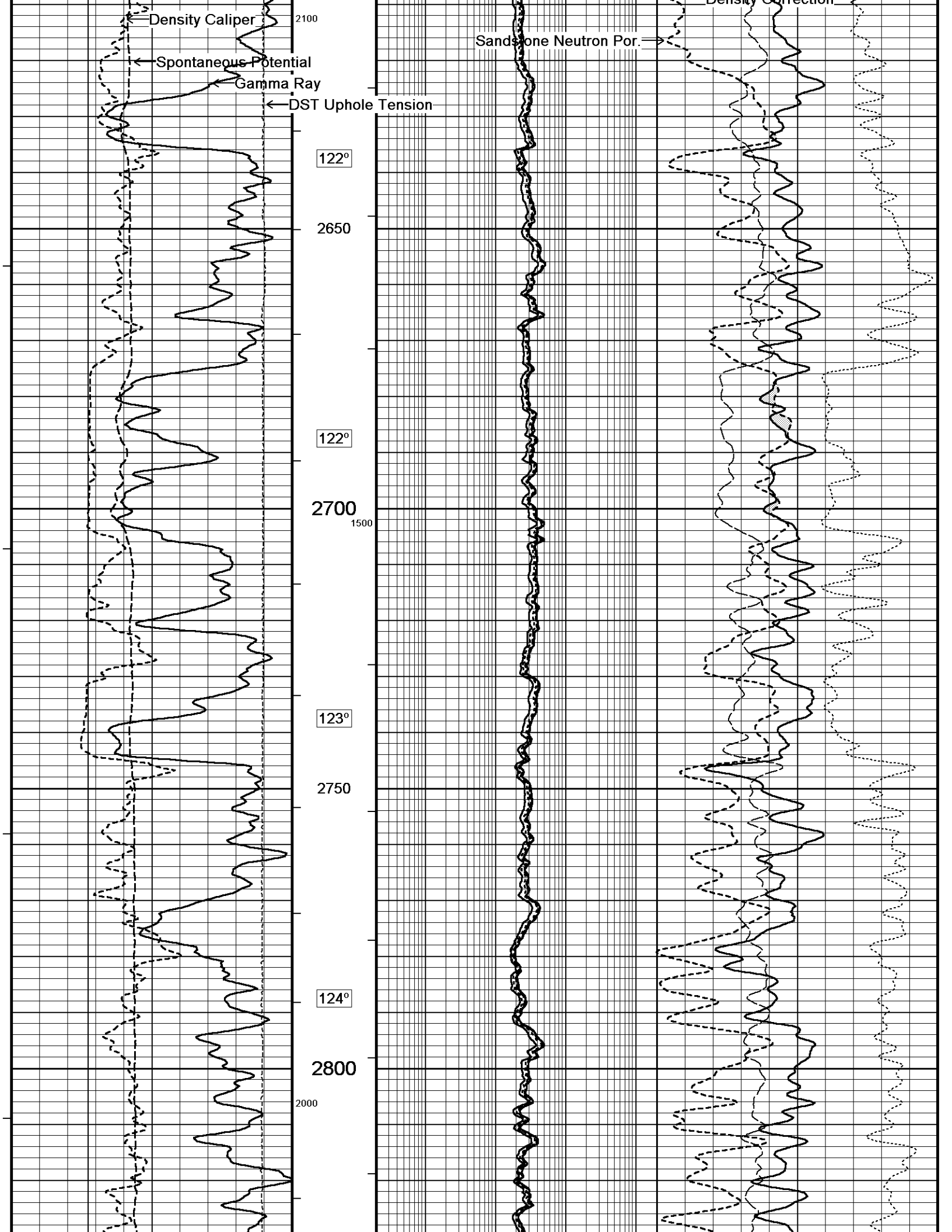


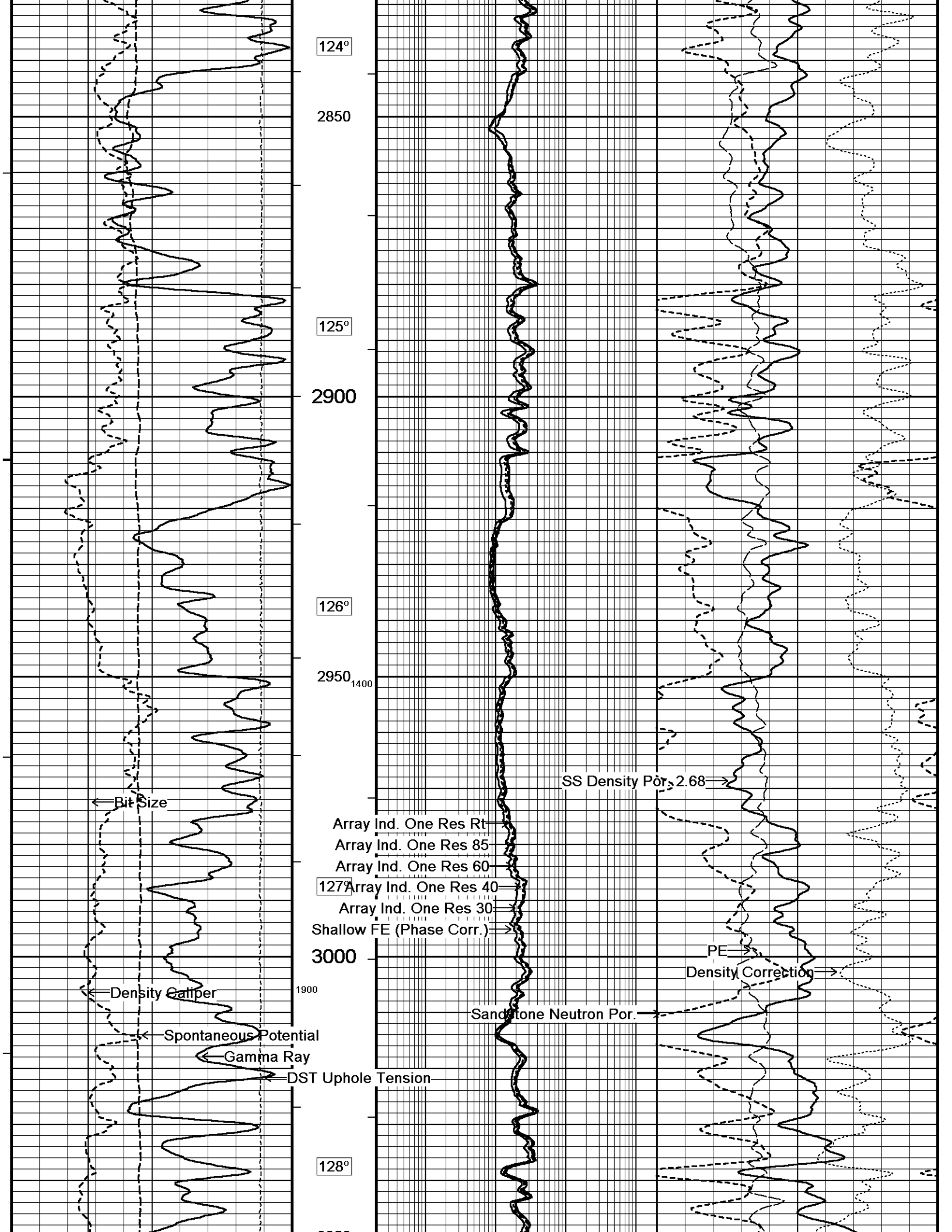


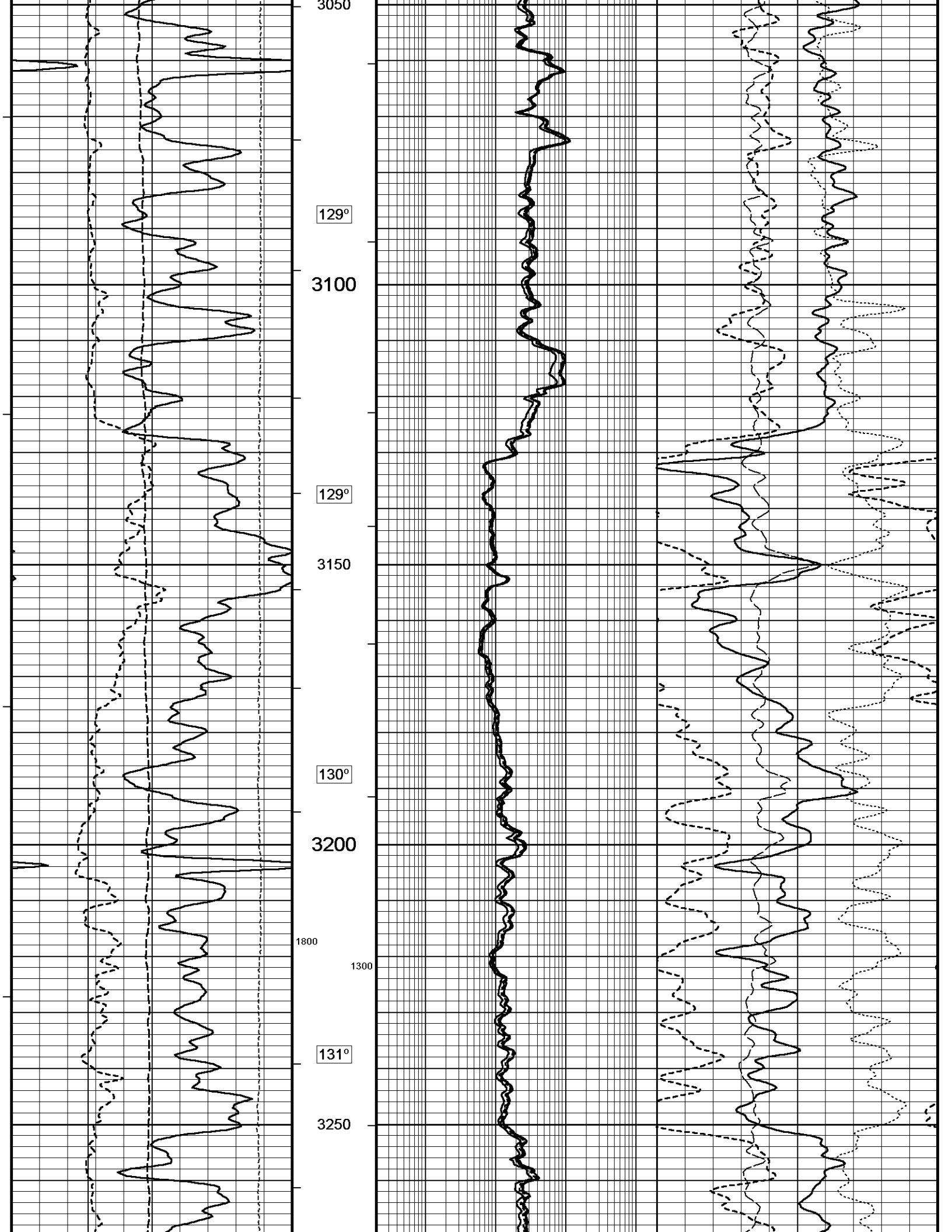


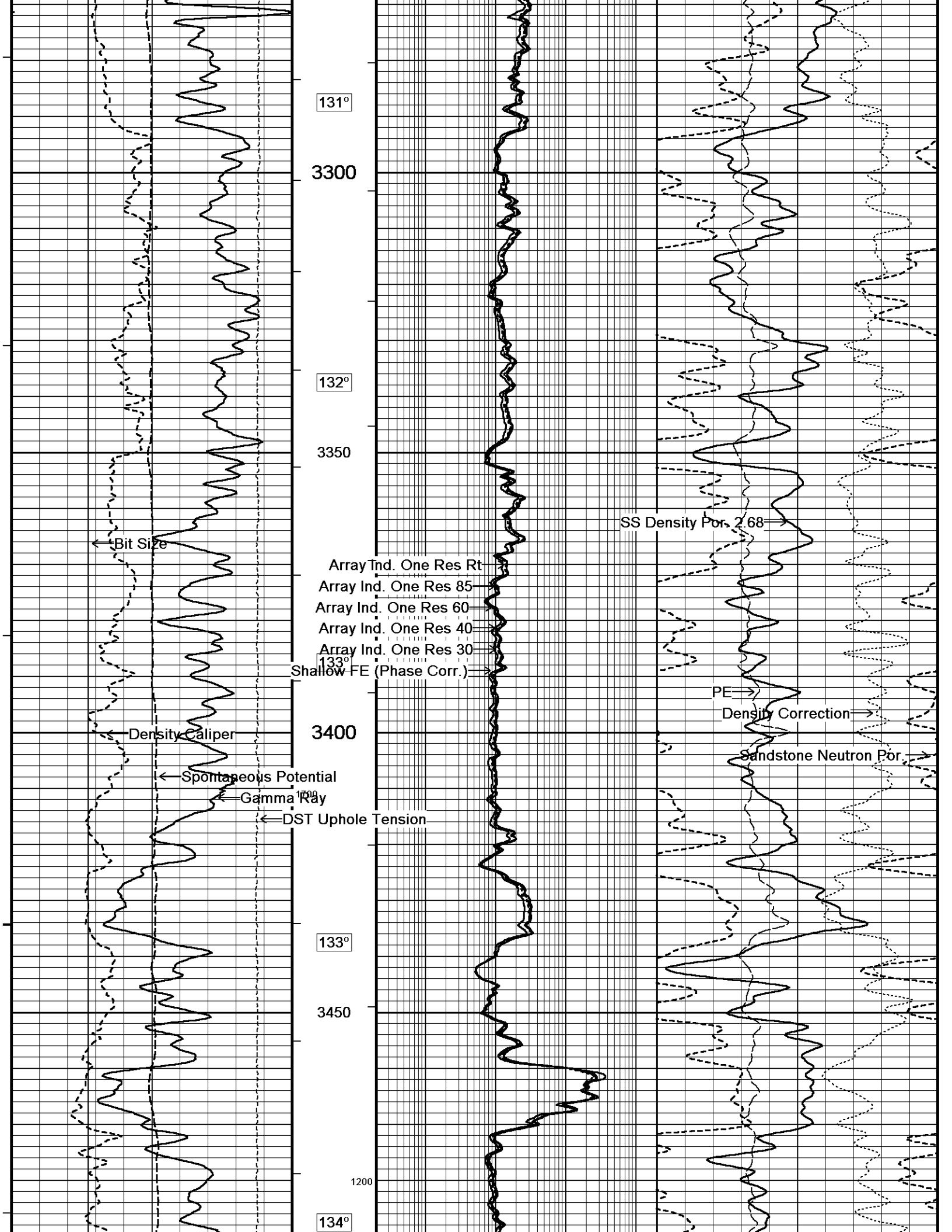


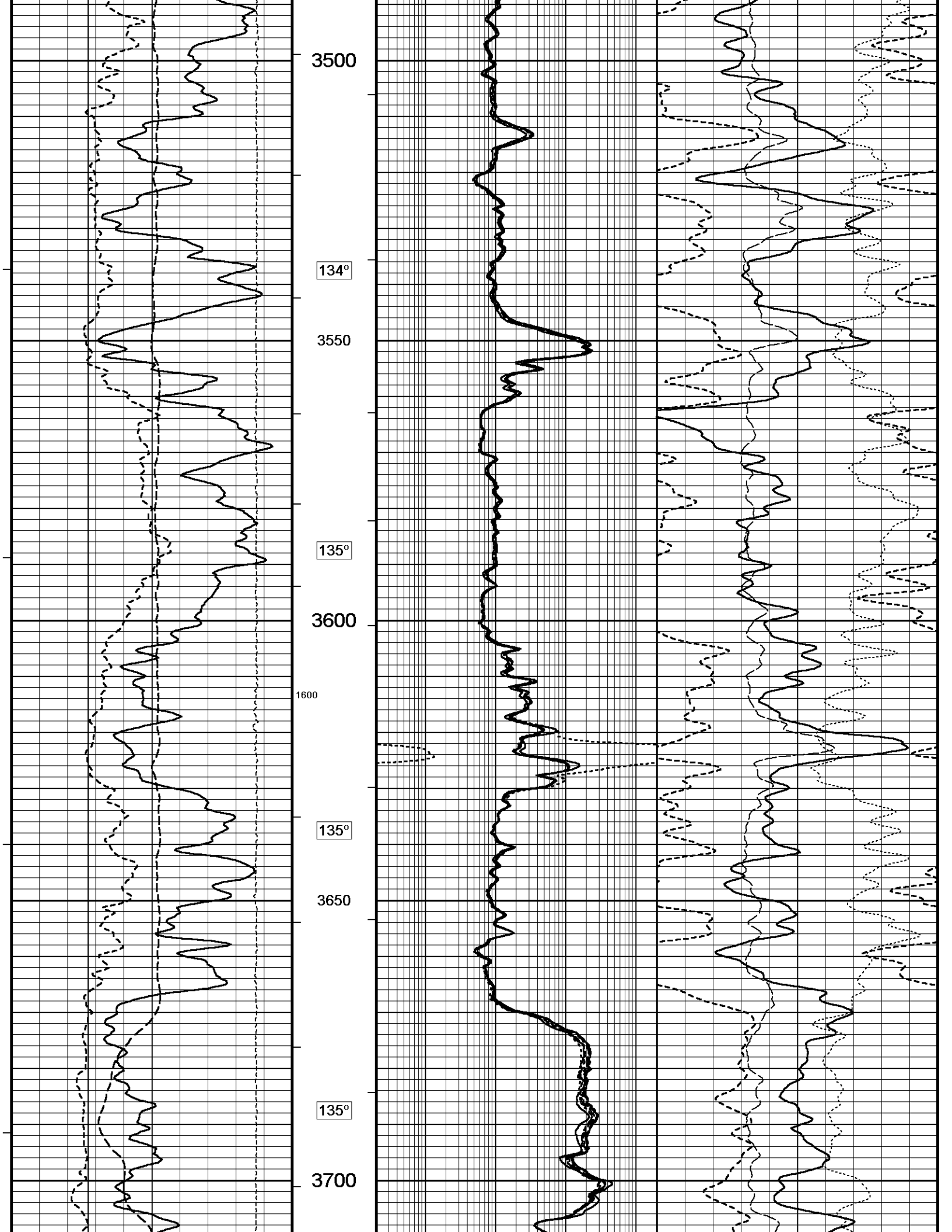


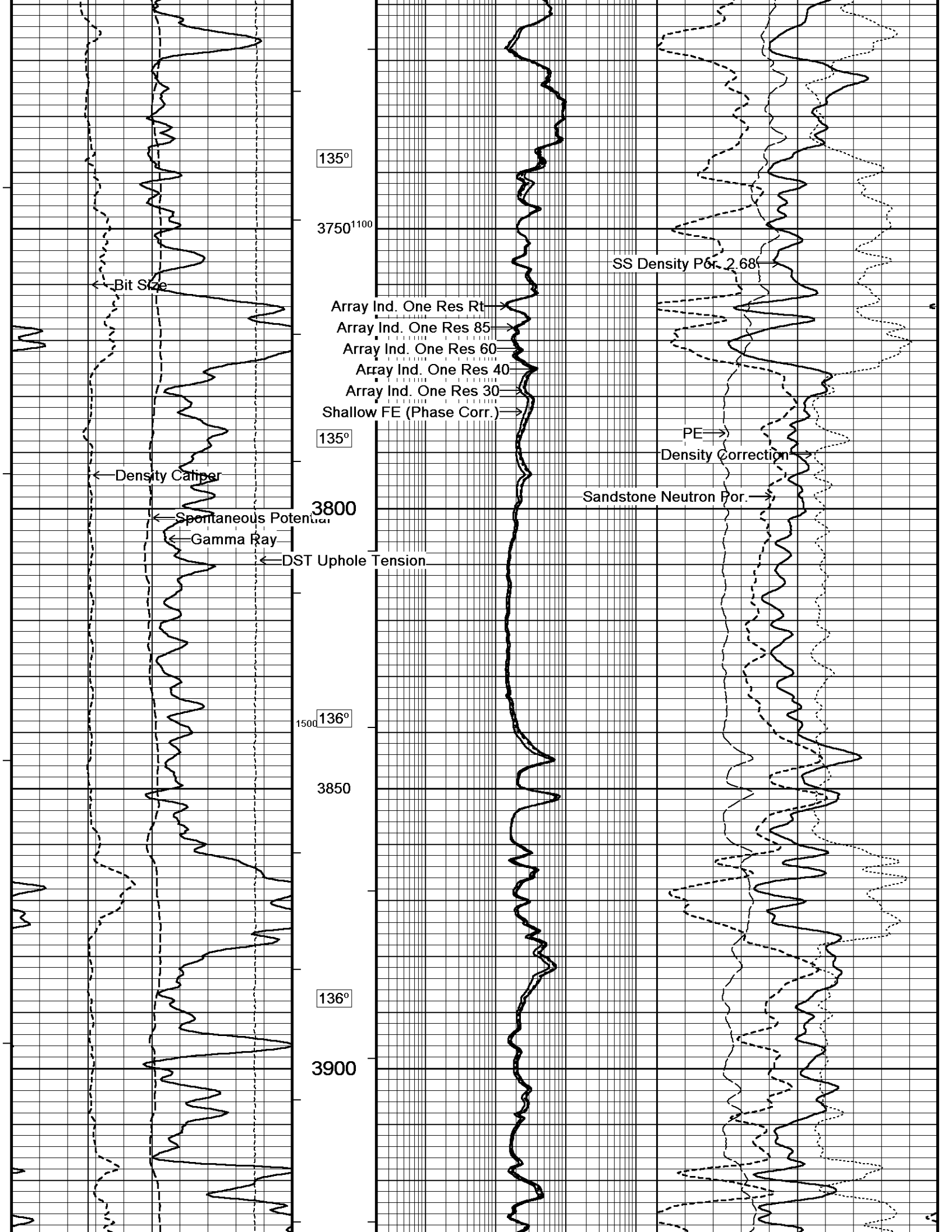


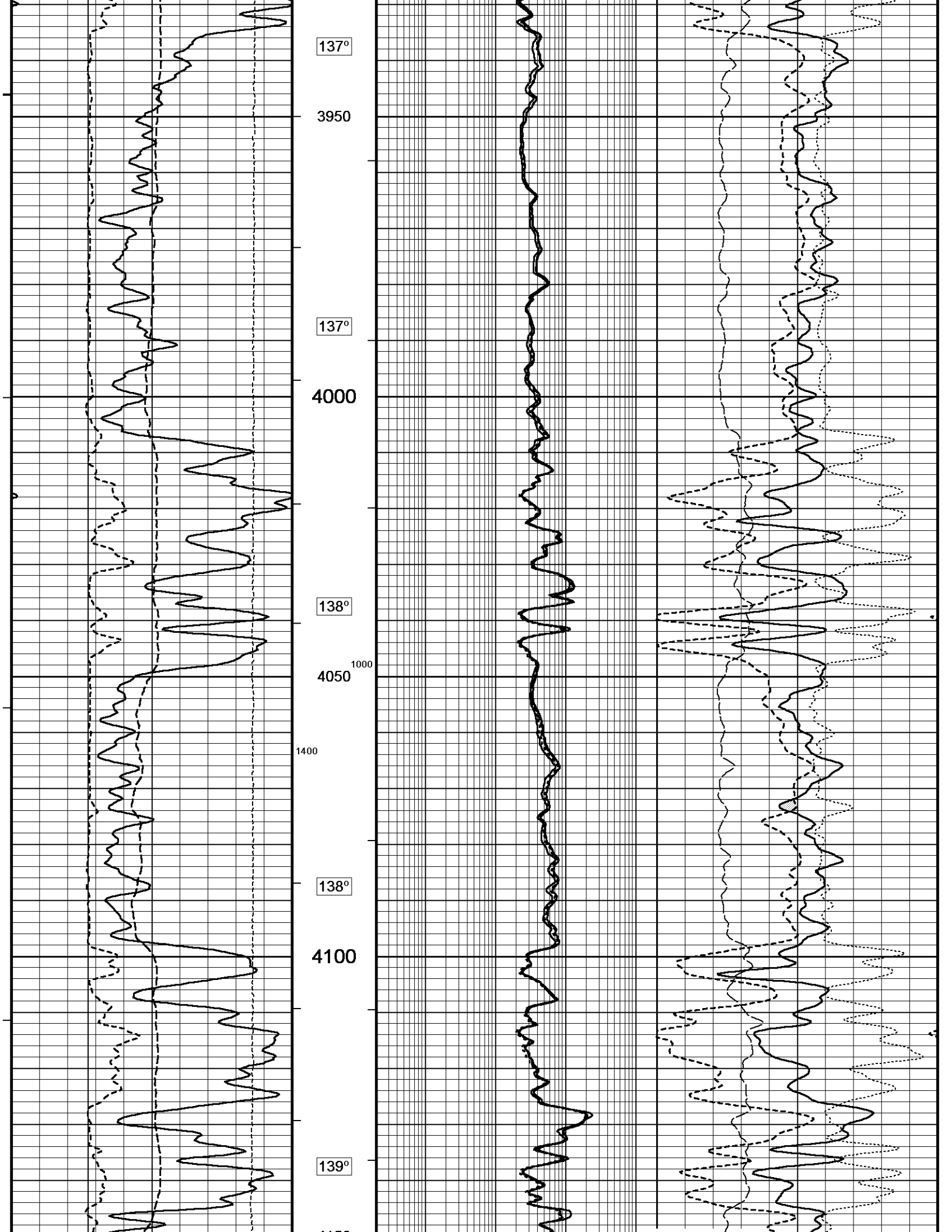


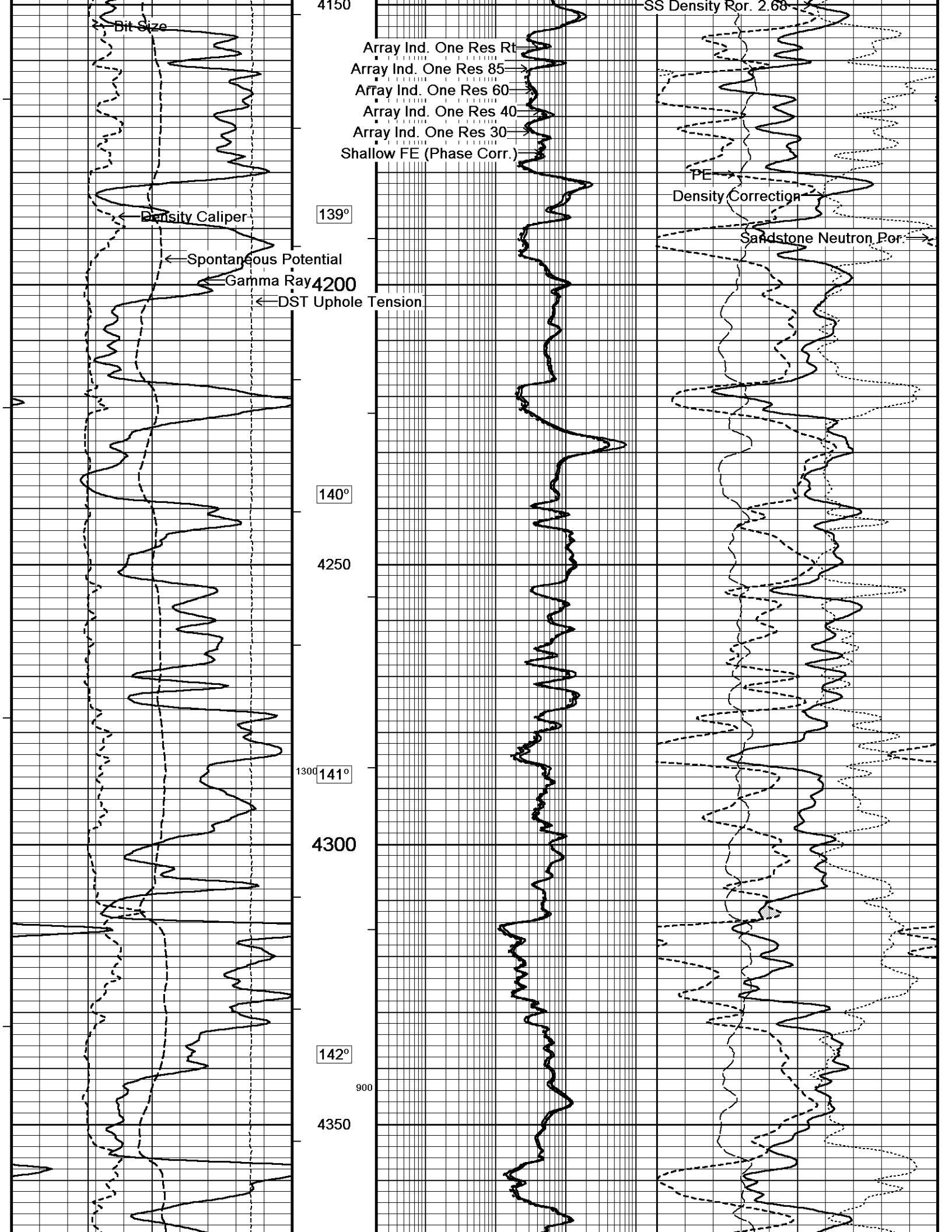


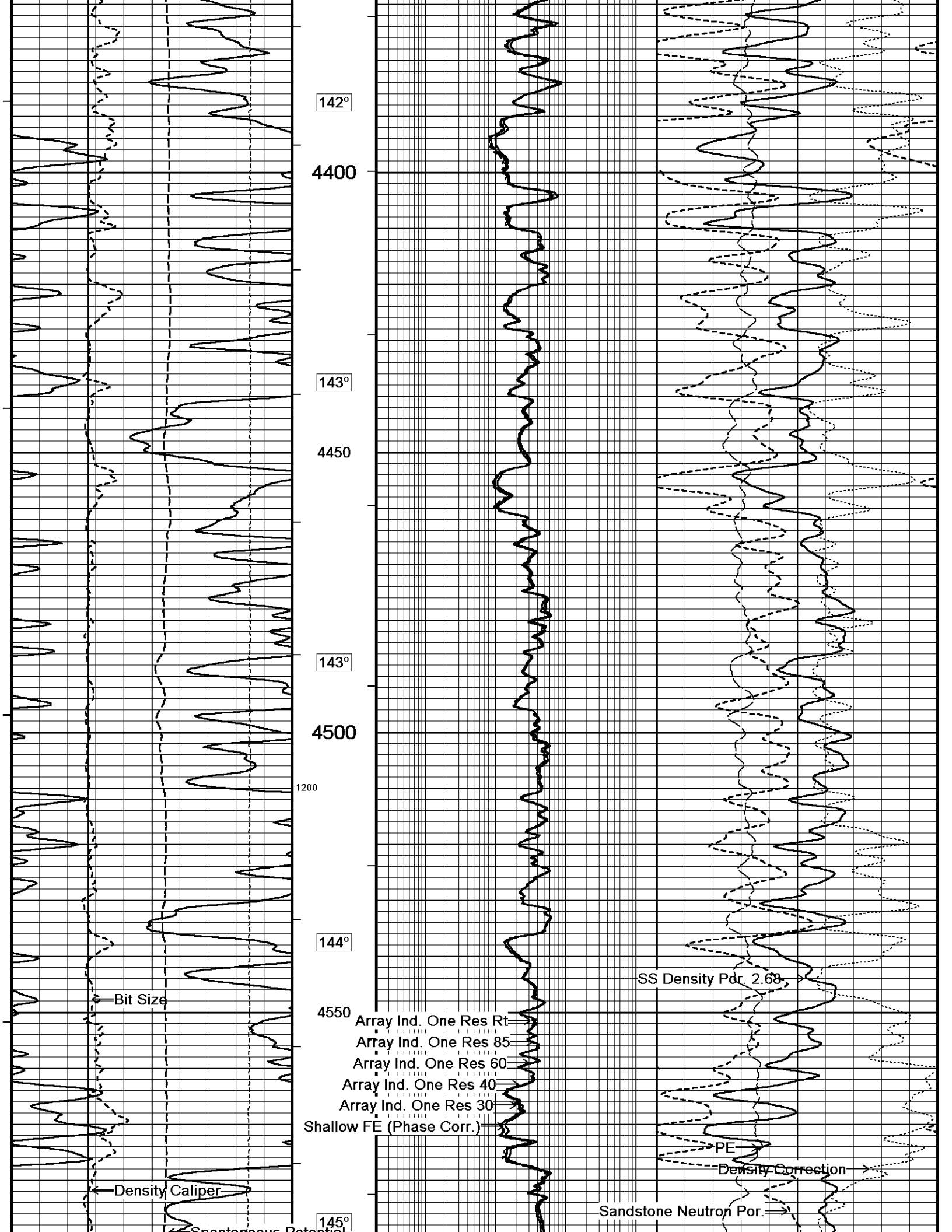












142°

4400

143°

4450

143°

4500

1200

144°

4550

145°

Bit Size

Density Caliper

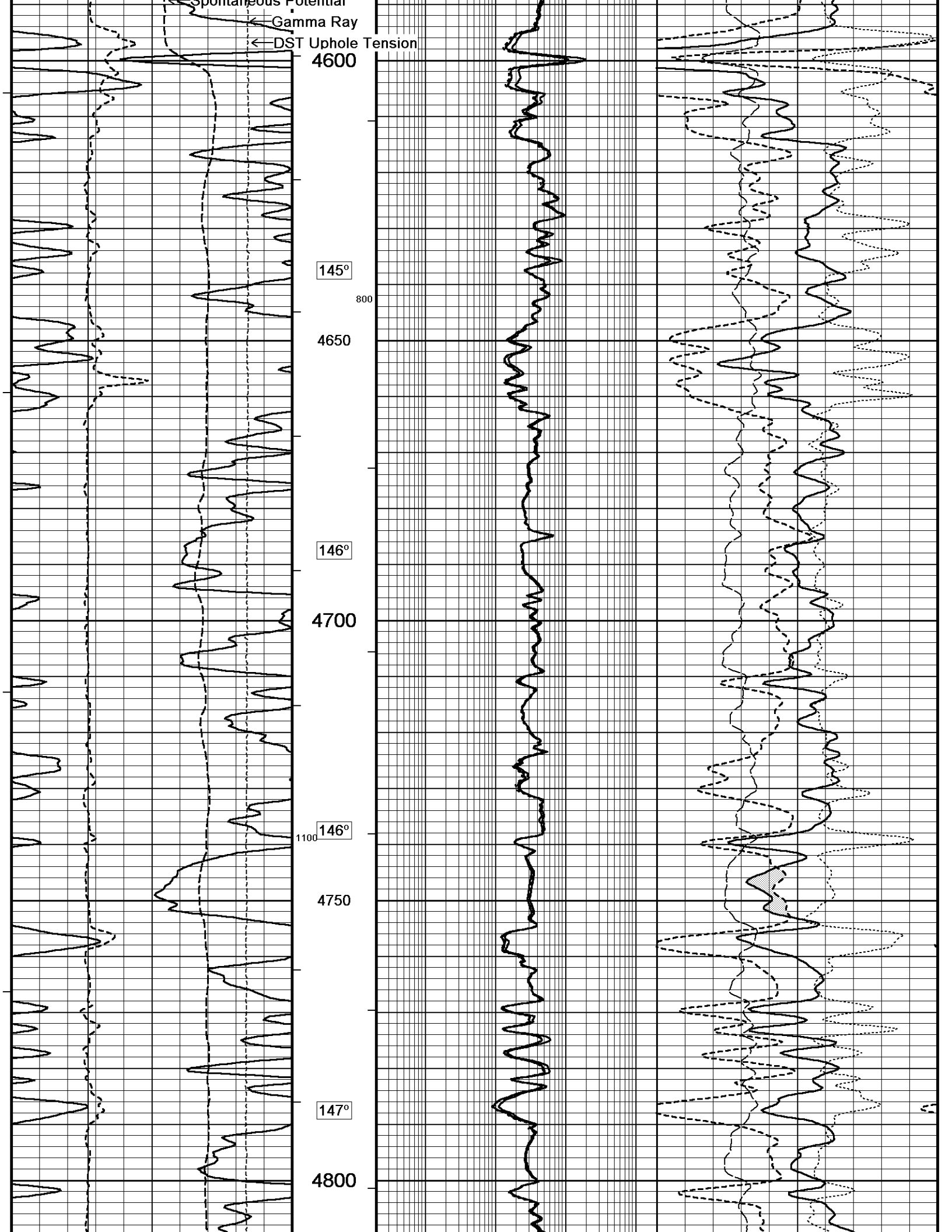
Spontaneous Pot

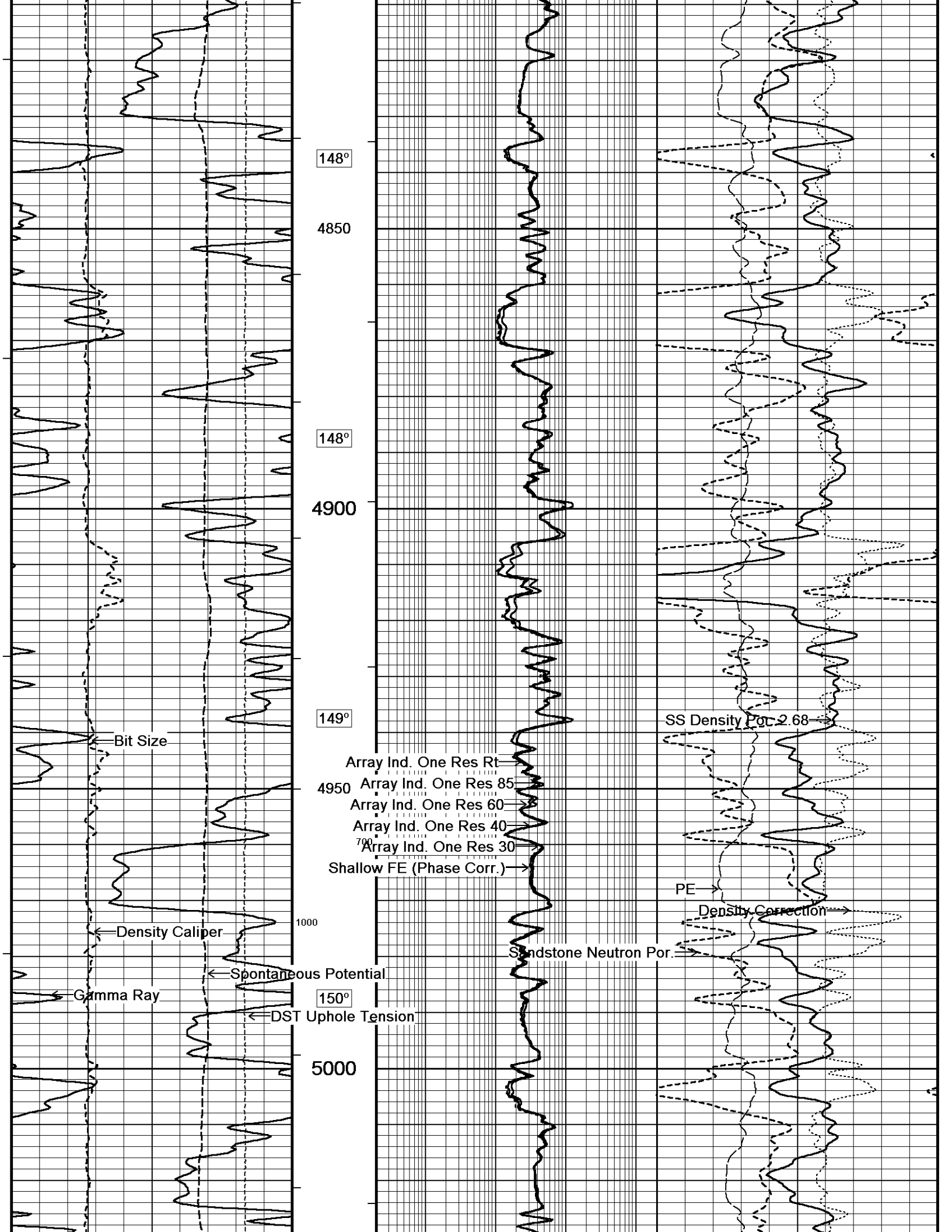
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)

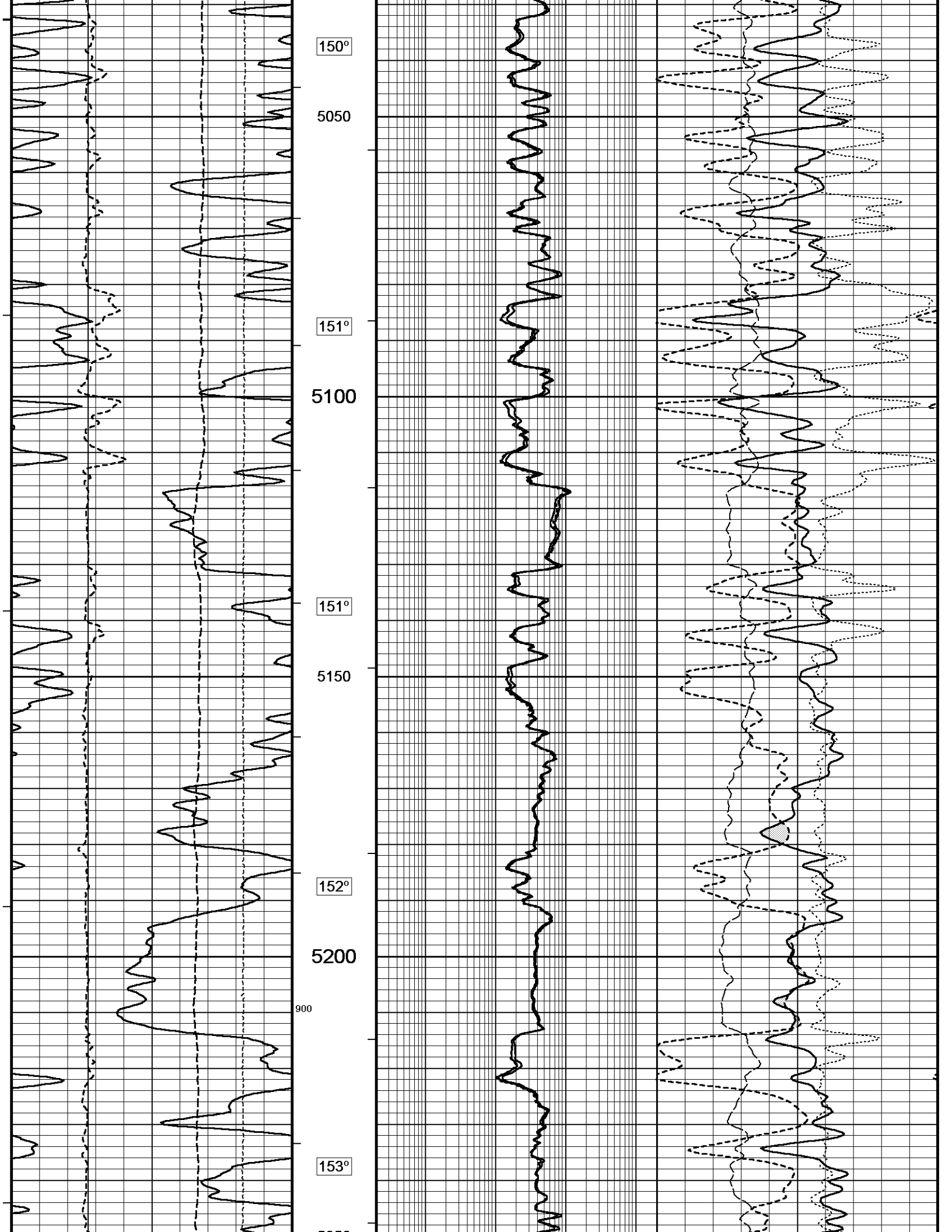
SS Density Pdr 2.68

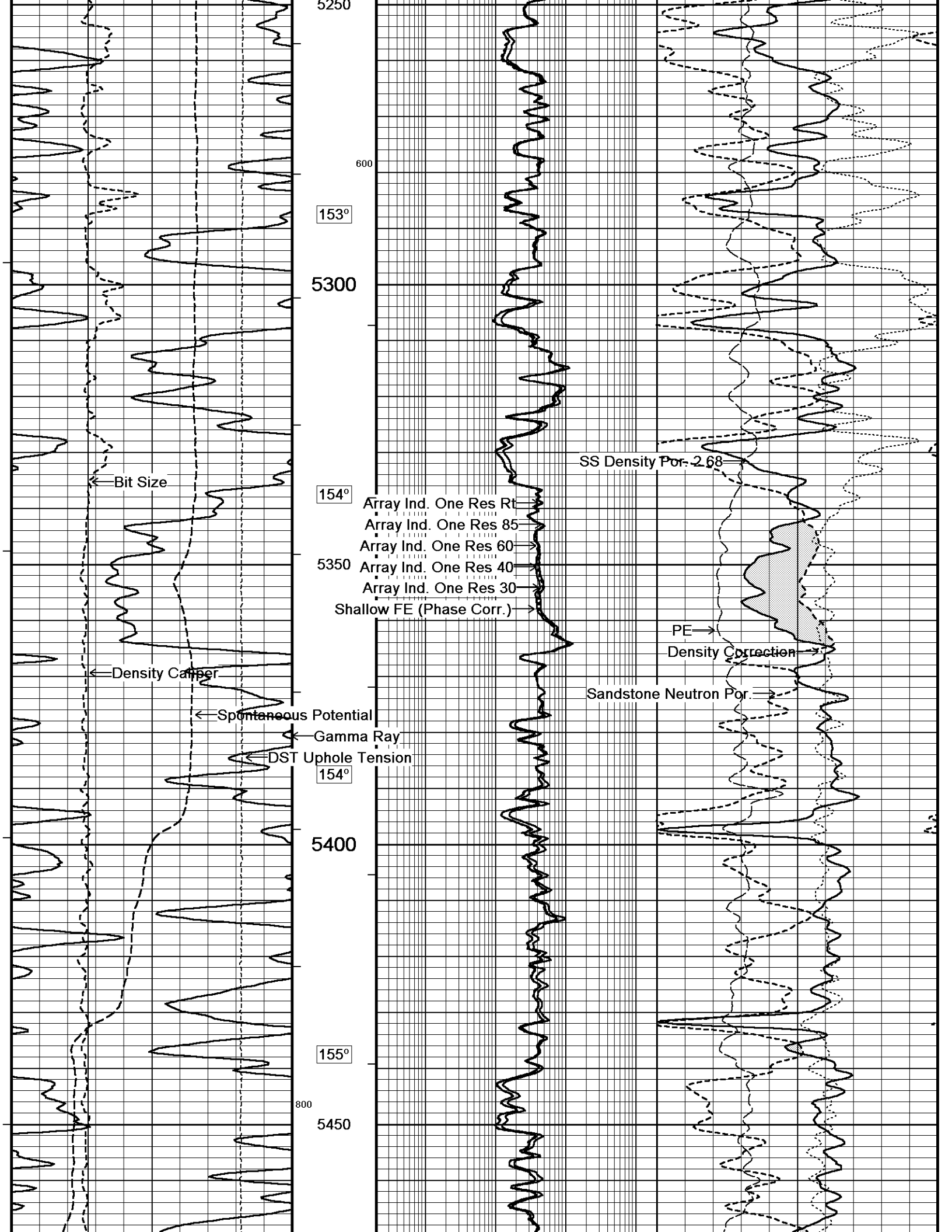
PE
Density Correction

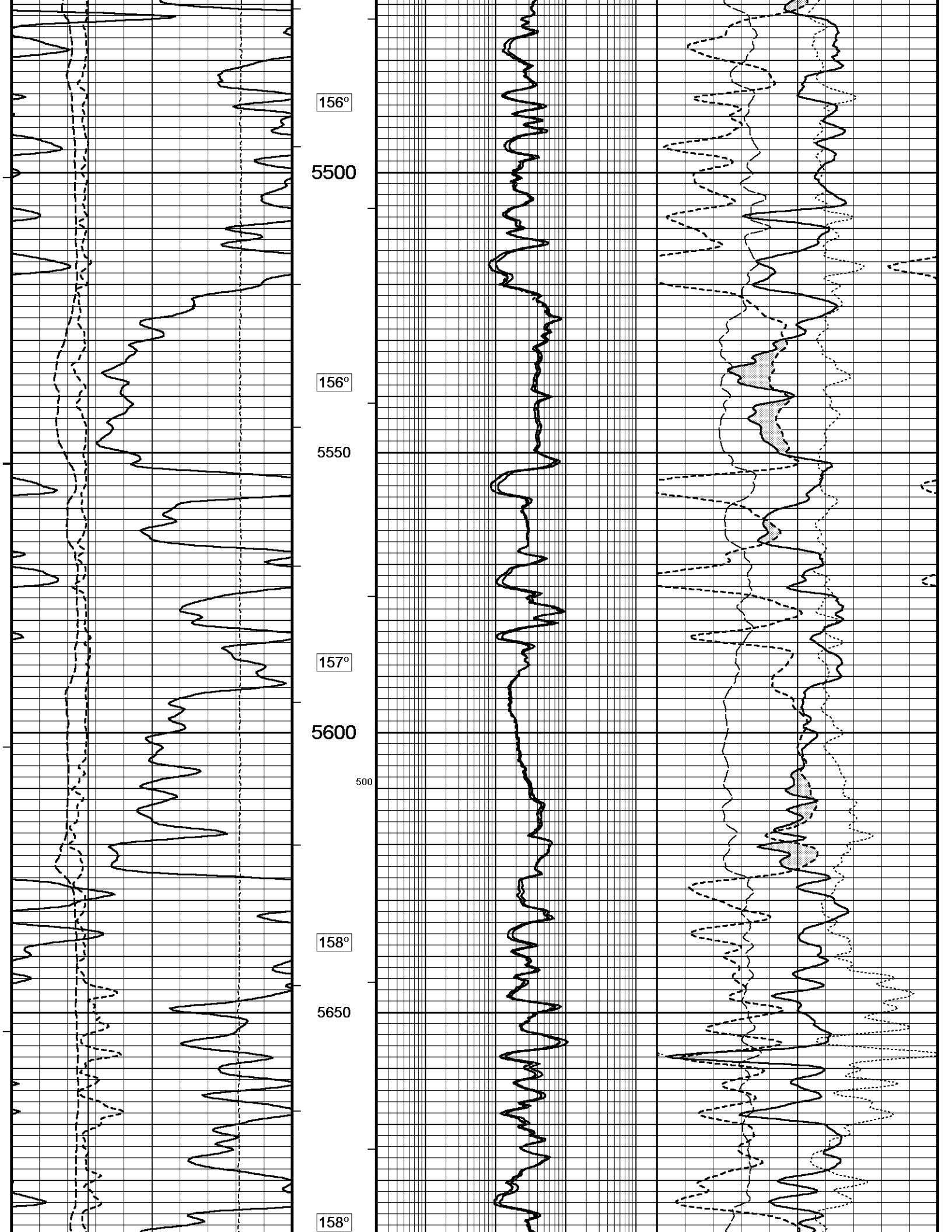
Sandstone Neutron Por.

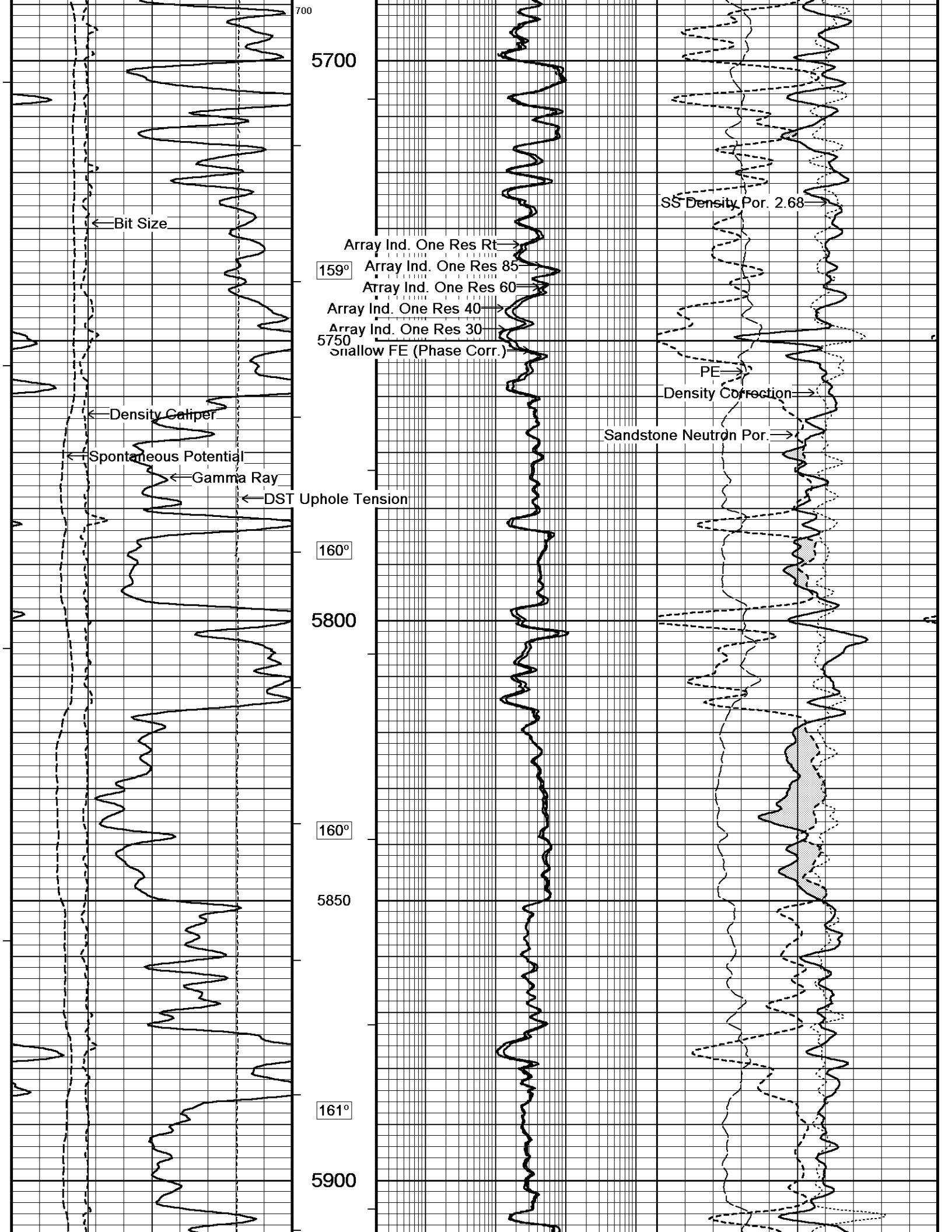


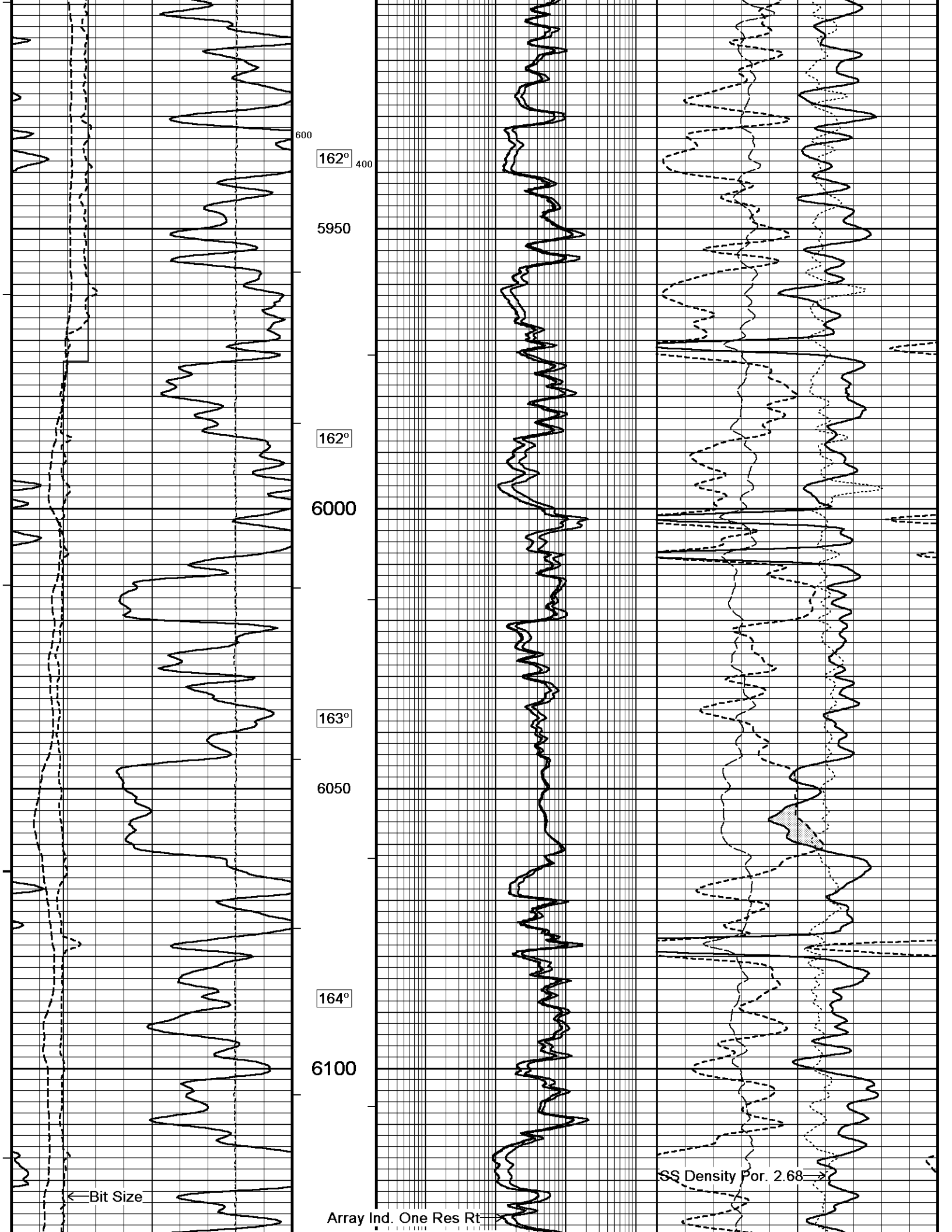












162°

162°

163°

164°

600

5950

6000

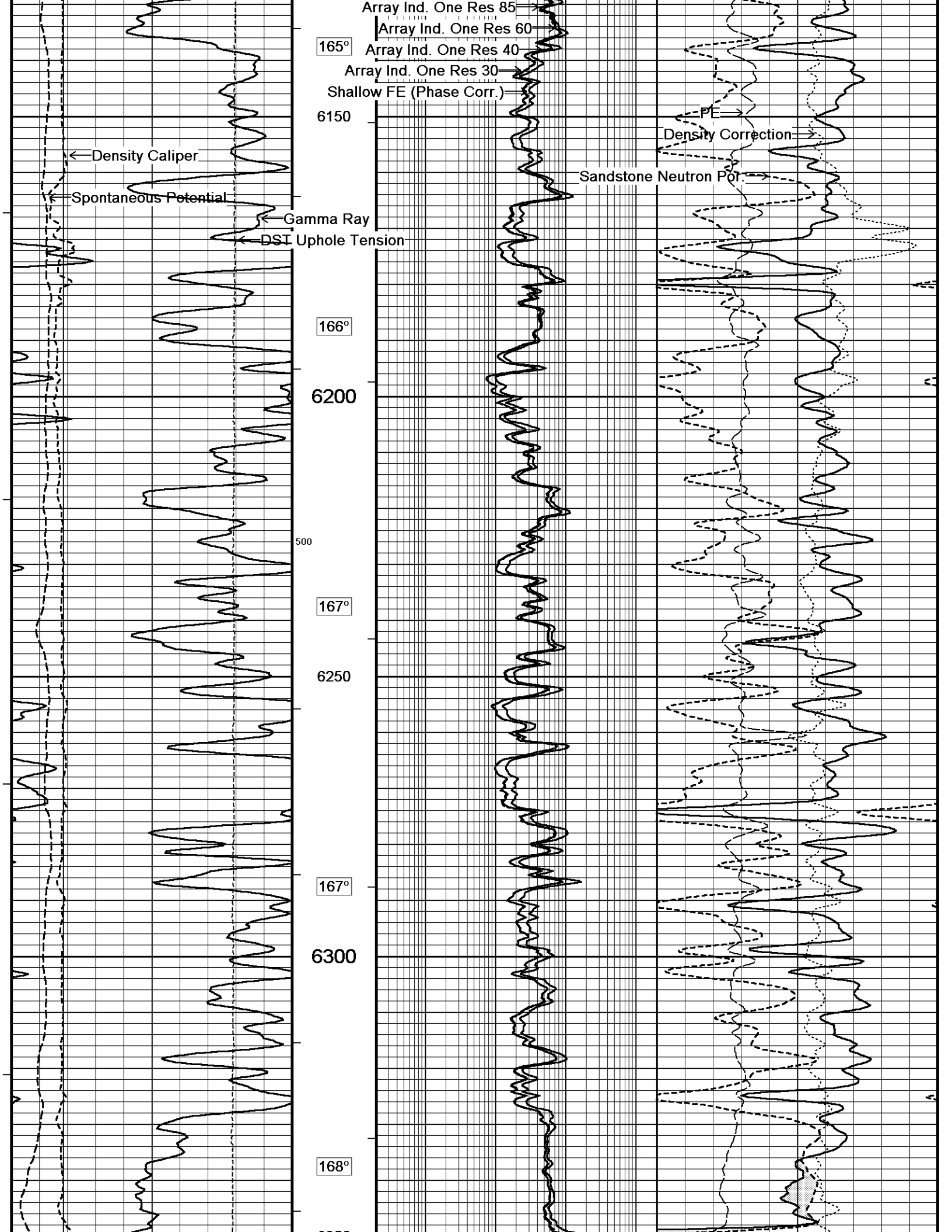
6050

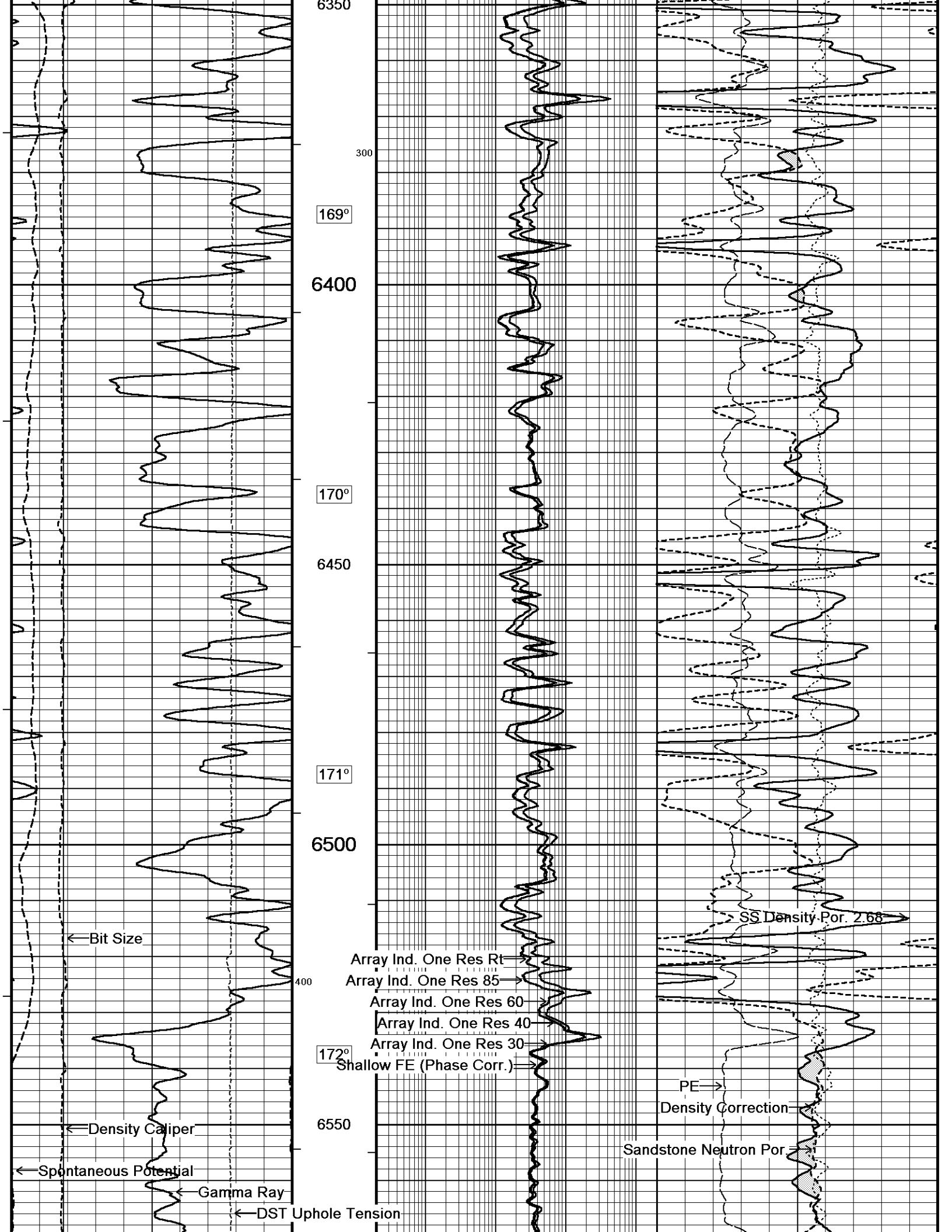
6100

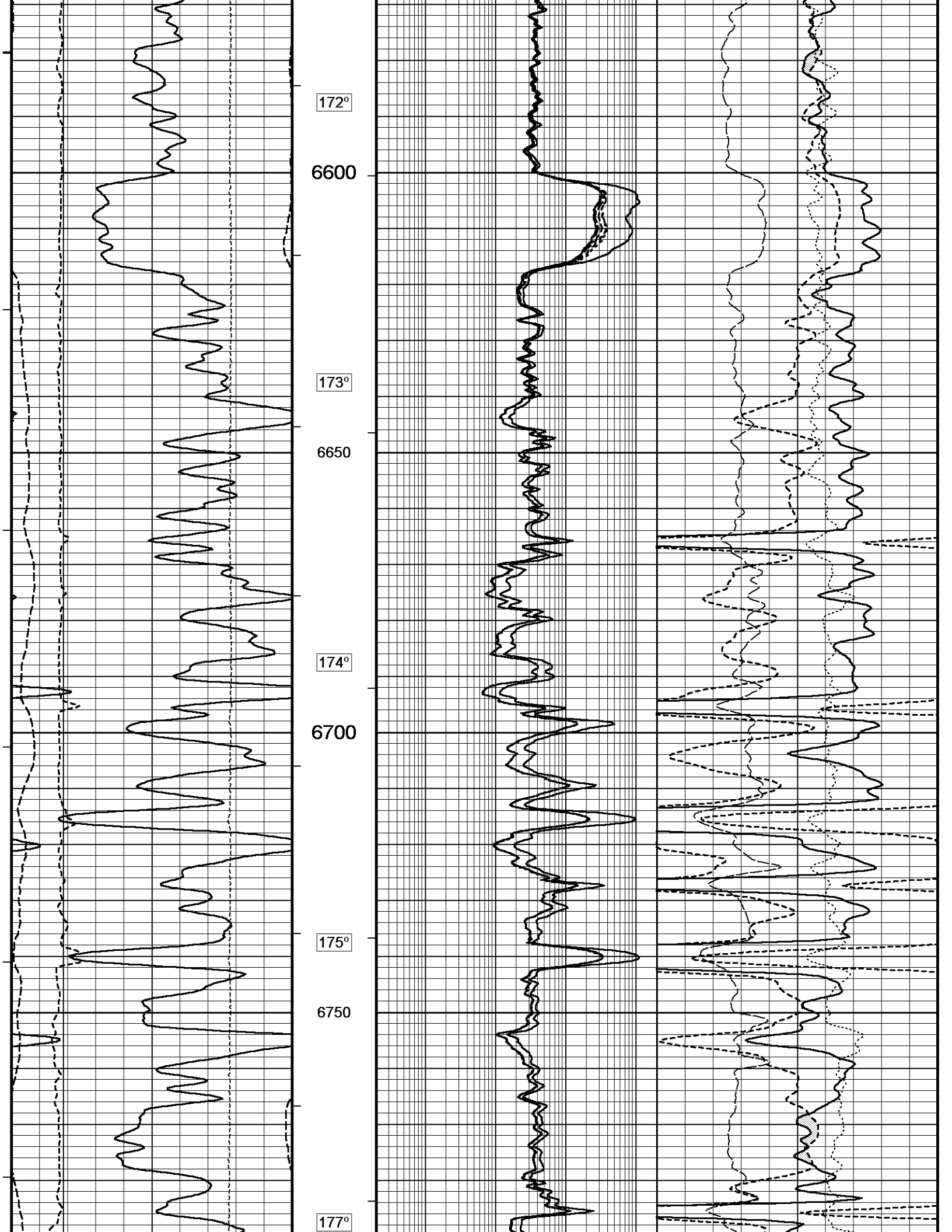
SS Density Por. 2.68

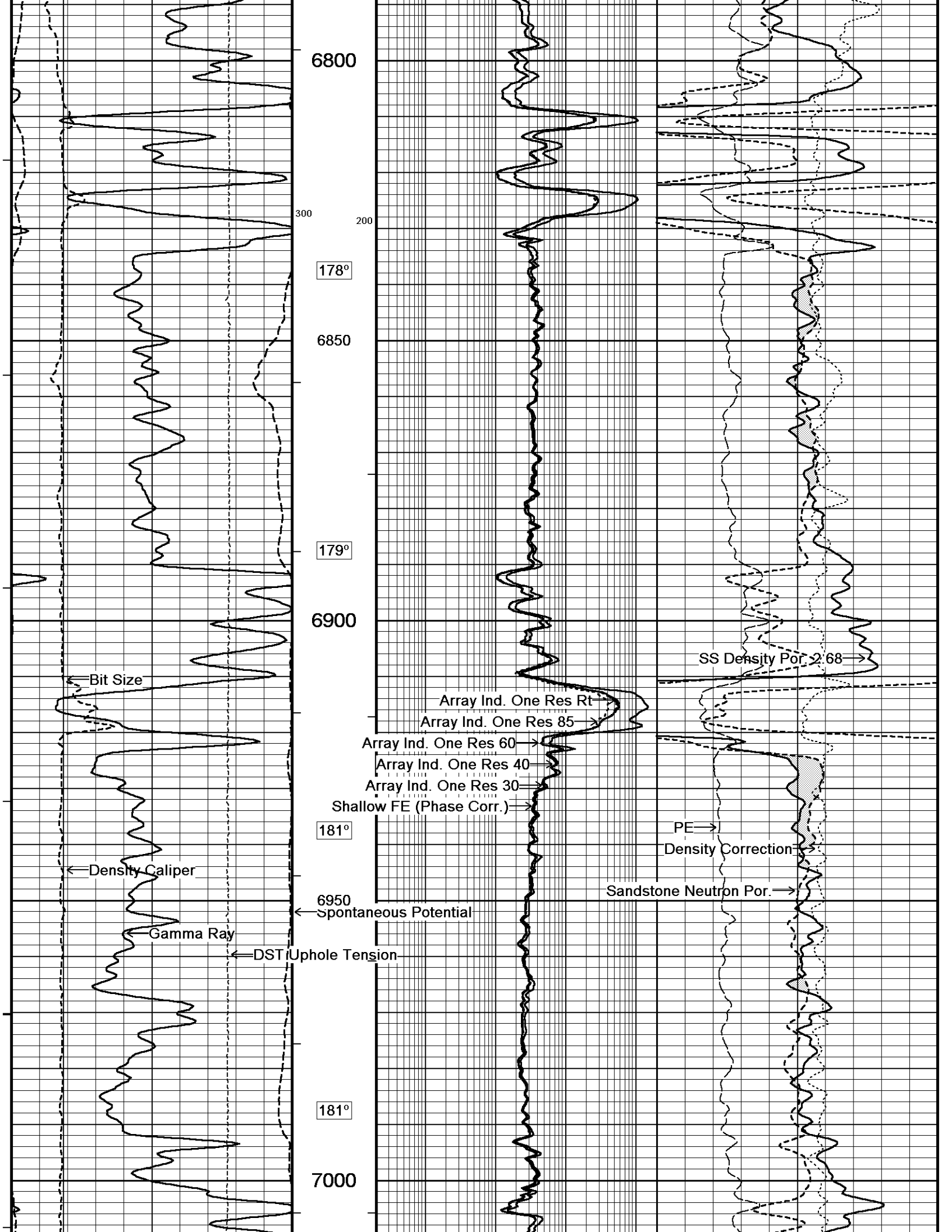
Array Ind. One Res Rt

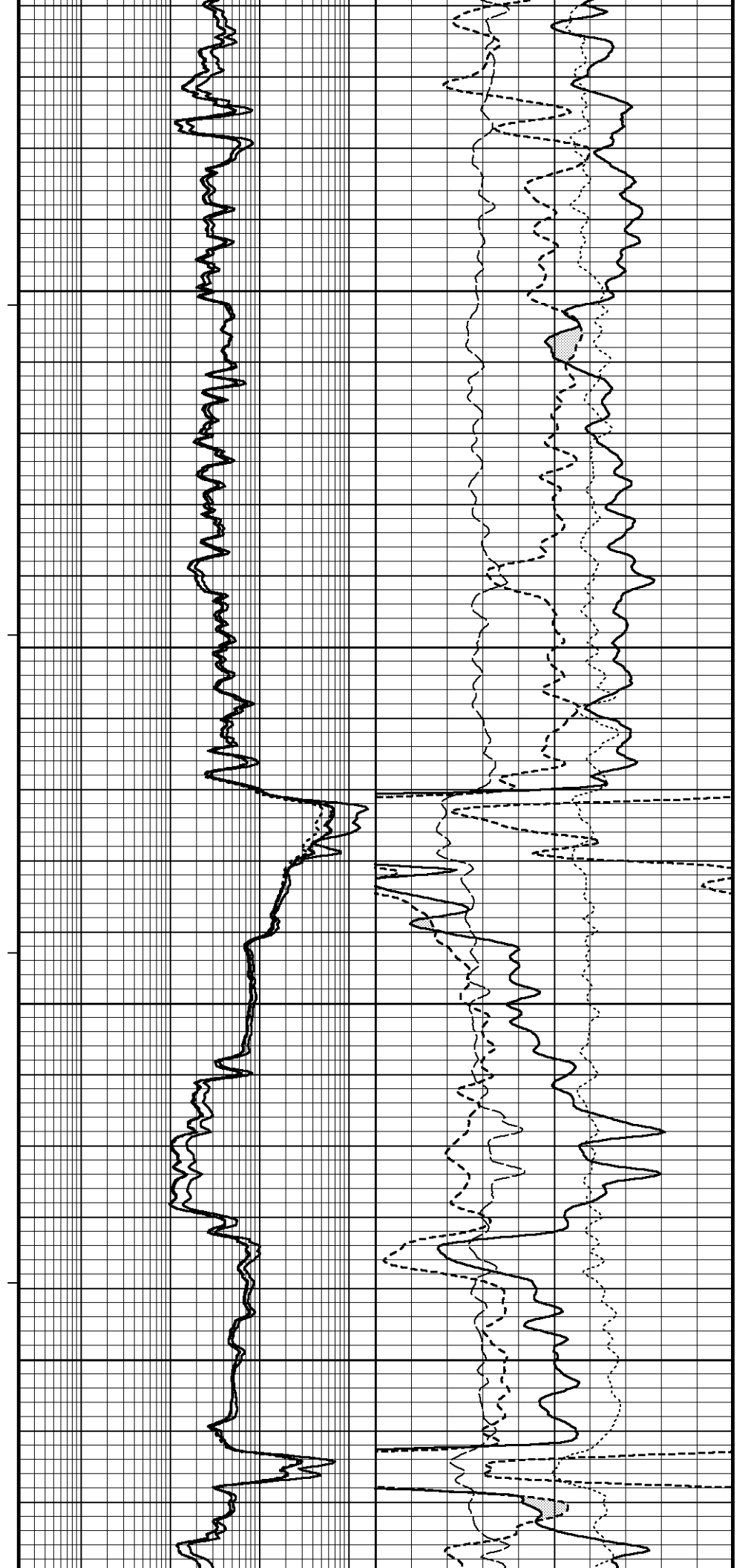
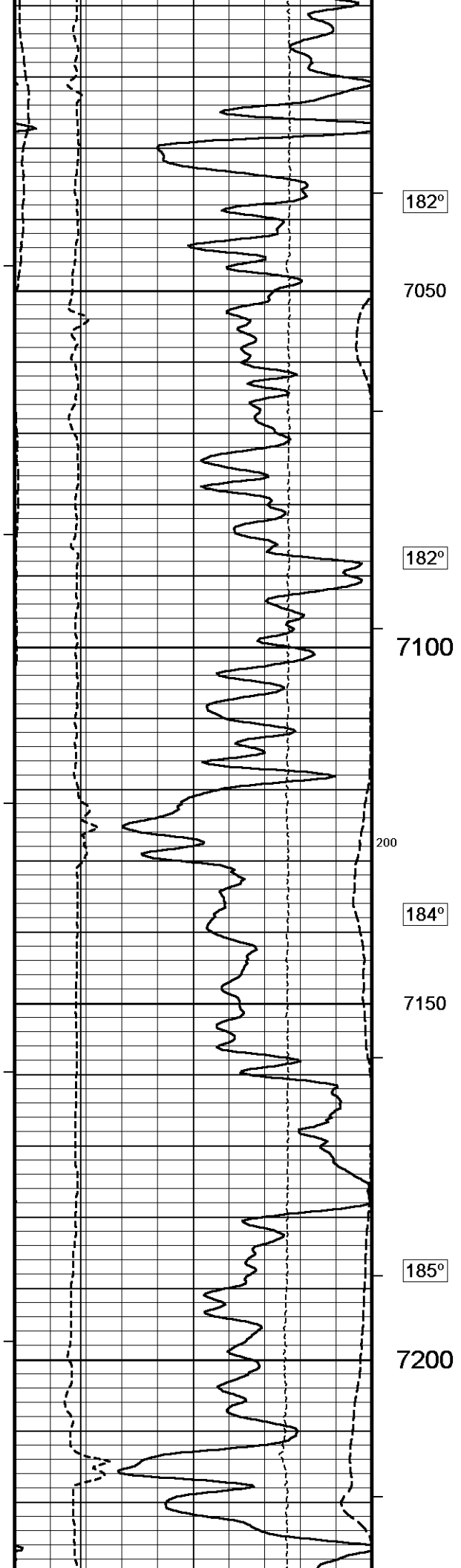
Bit Size

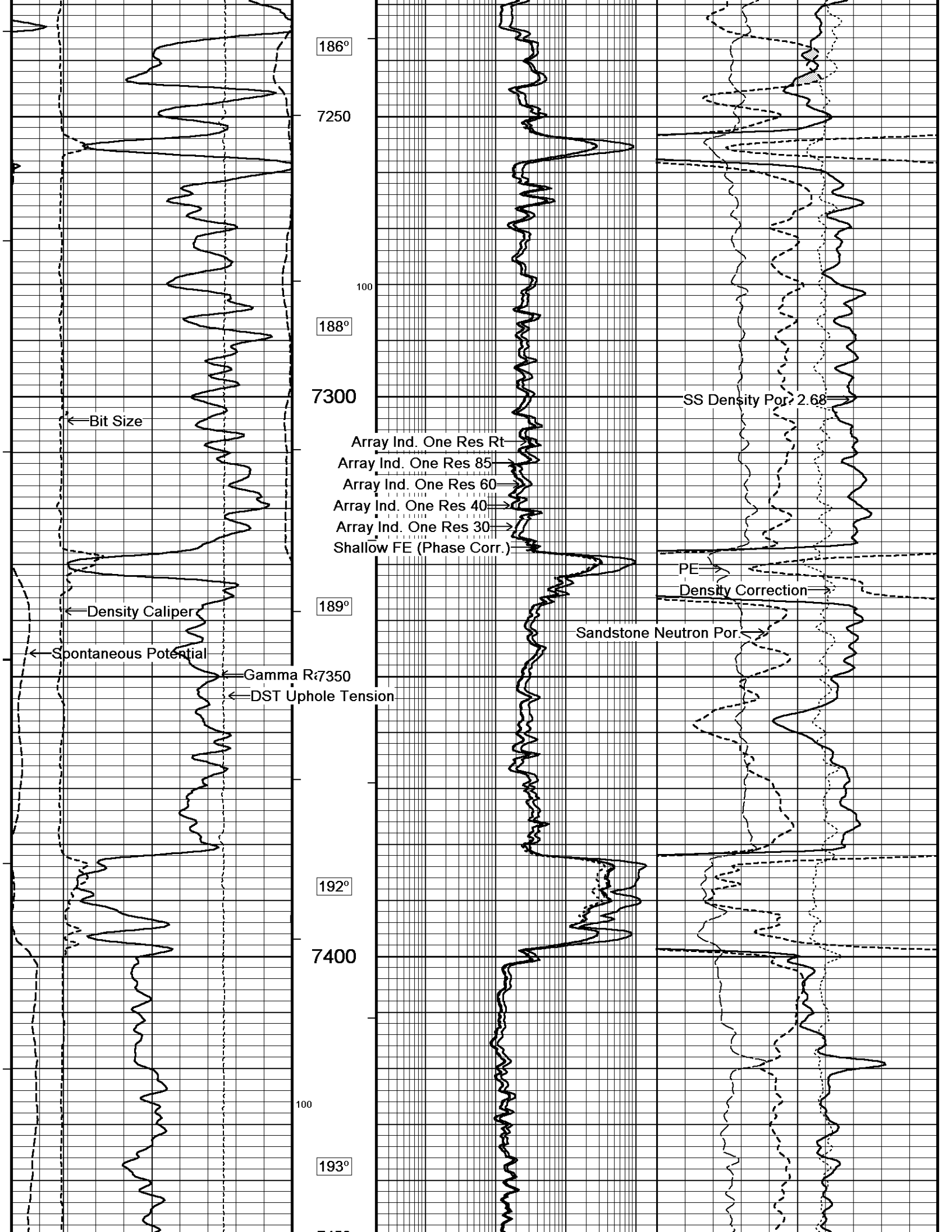


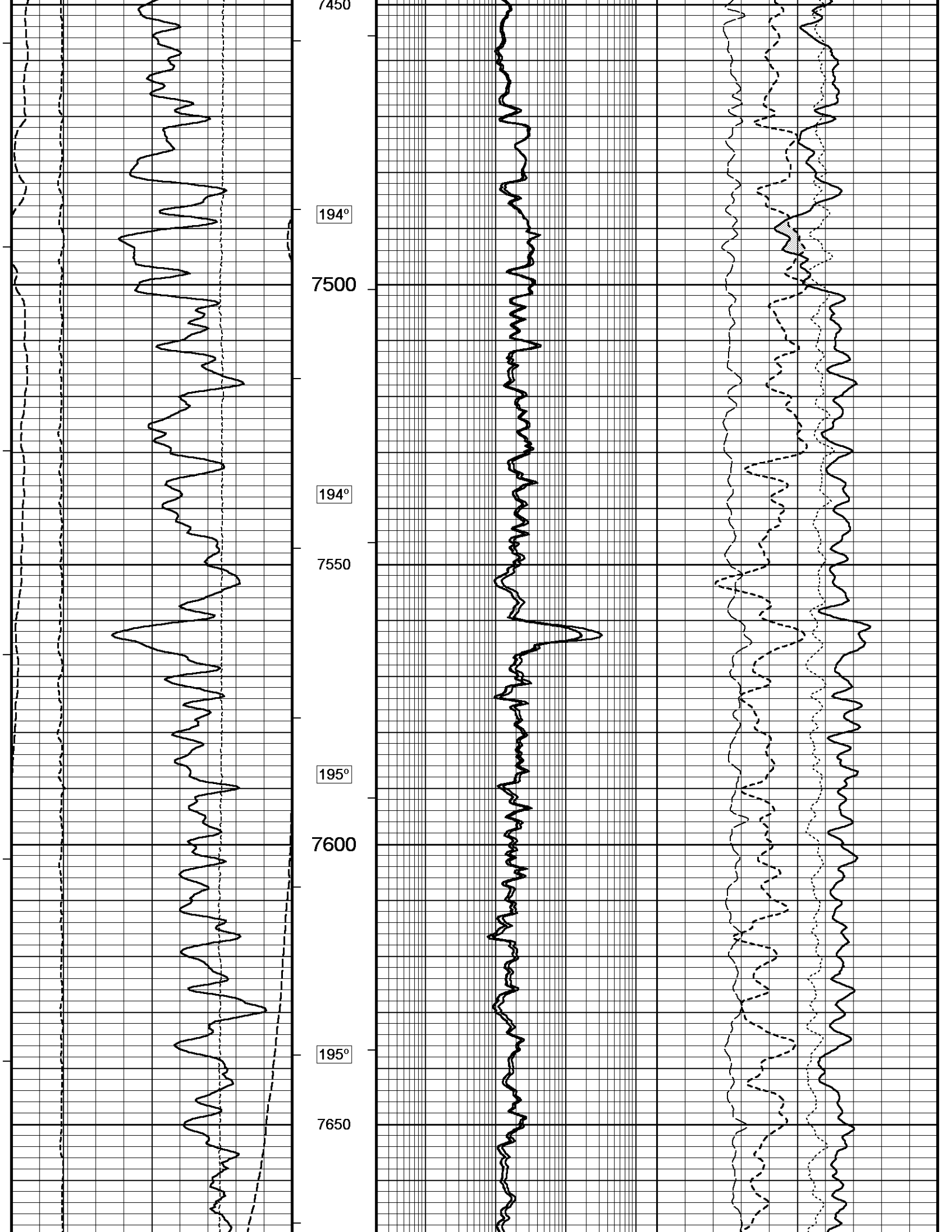


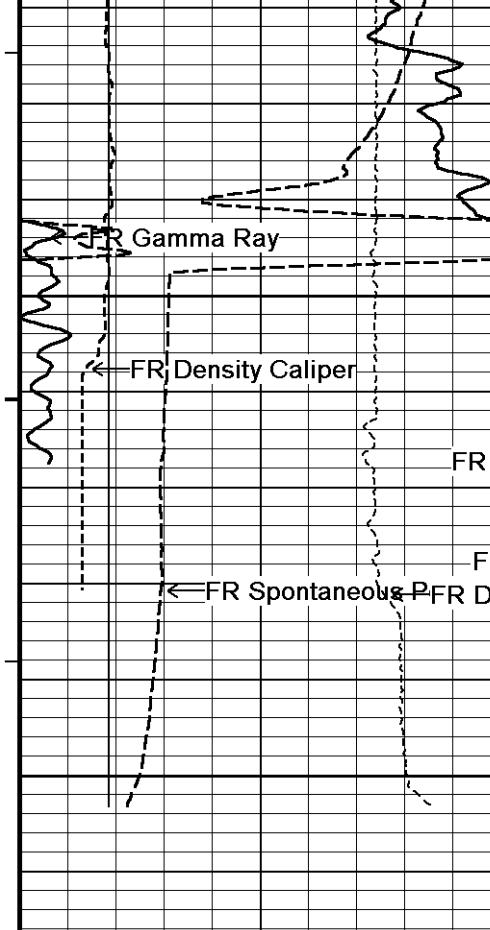












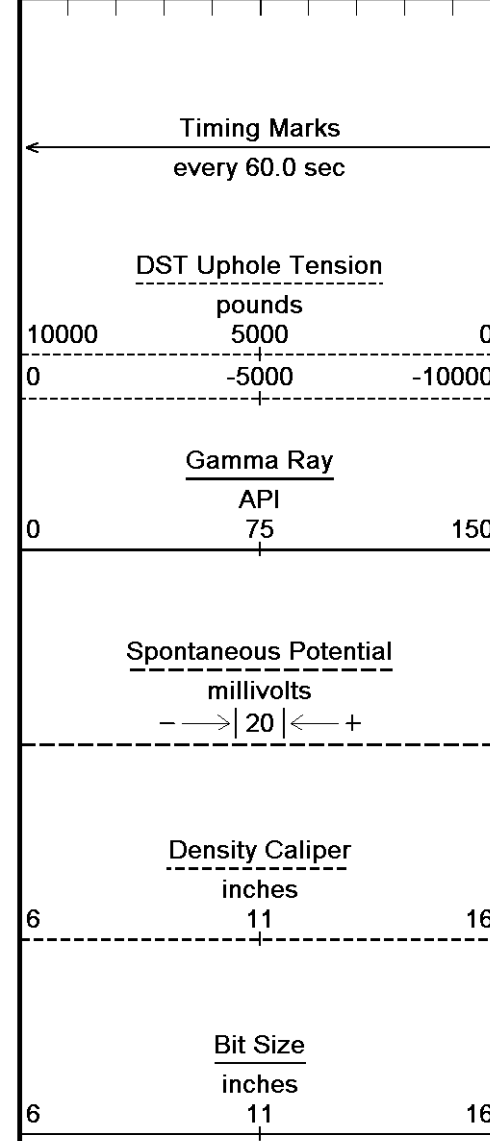
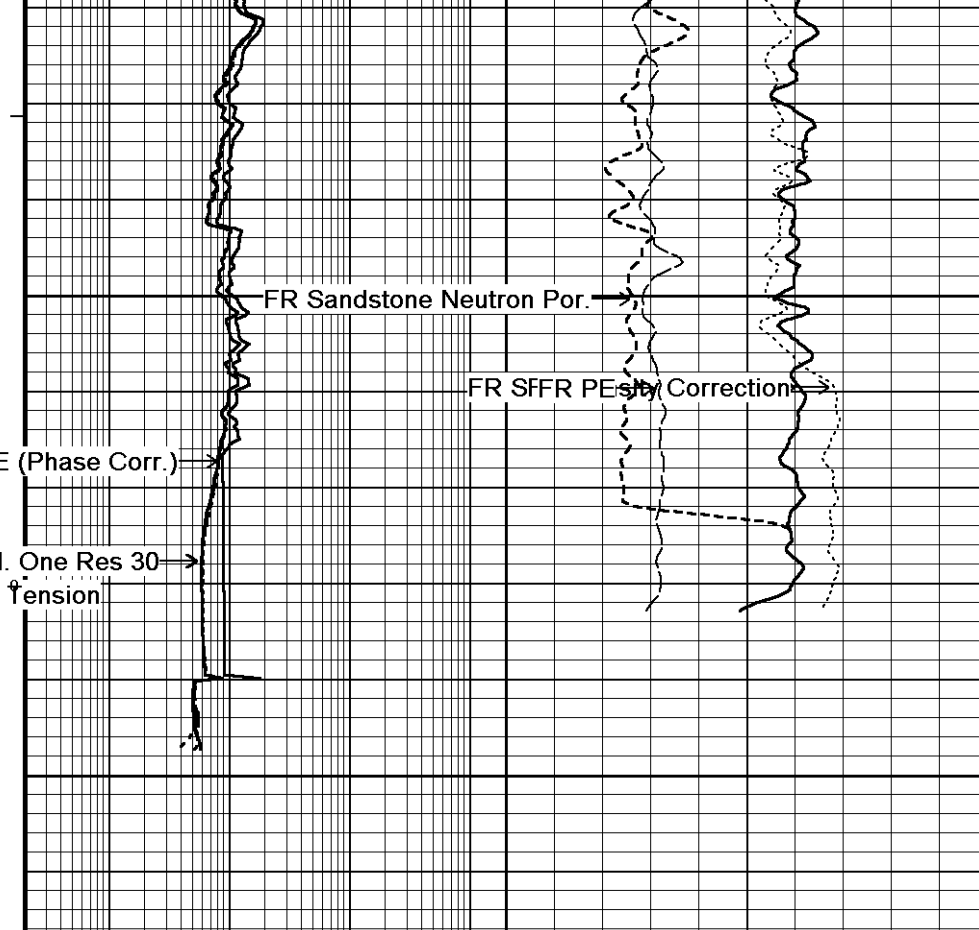
195°

7700

7750

7766

Depth In Feet



Shallow FE (Phase Corr.)

ohm metres

Array Ind. One Res 30

ohm metres

Array Ind. One Res 40

ohm metres

Array Ind. One Res 60

ohm metres

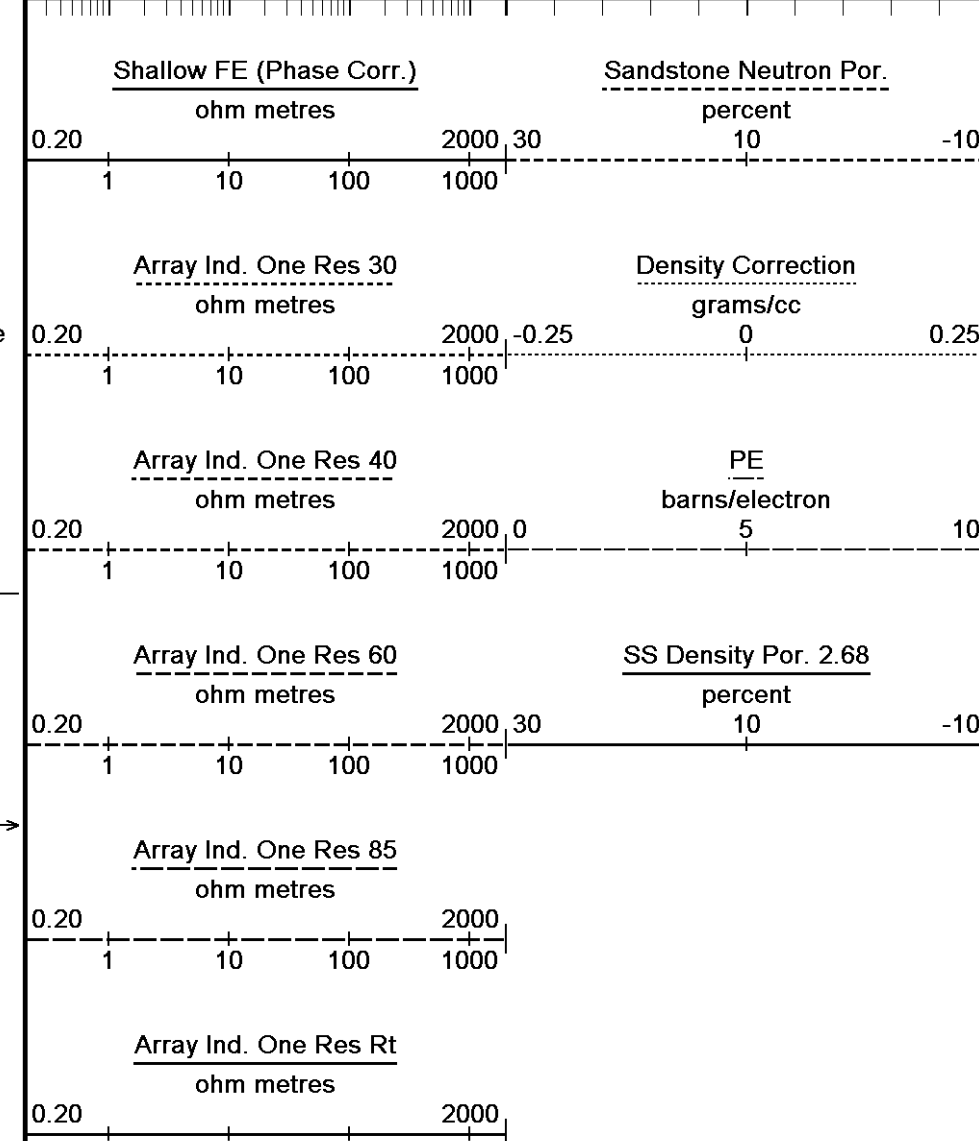
Array Ind. One Res 85

ohm metres

Array Ind. One Res Rt

ohm metres

Replay Scale 1:240

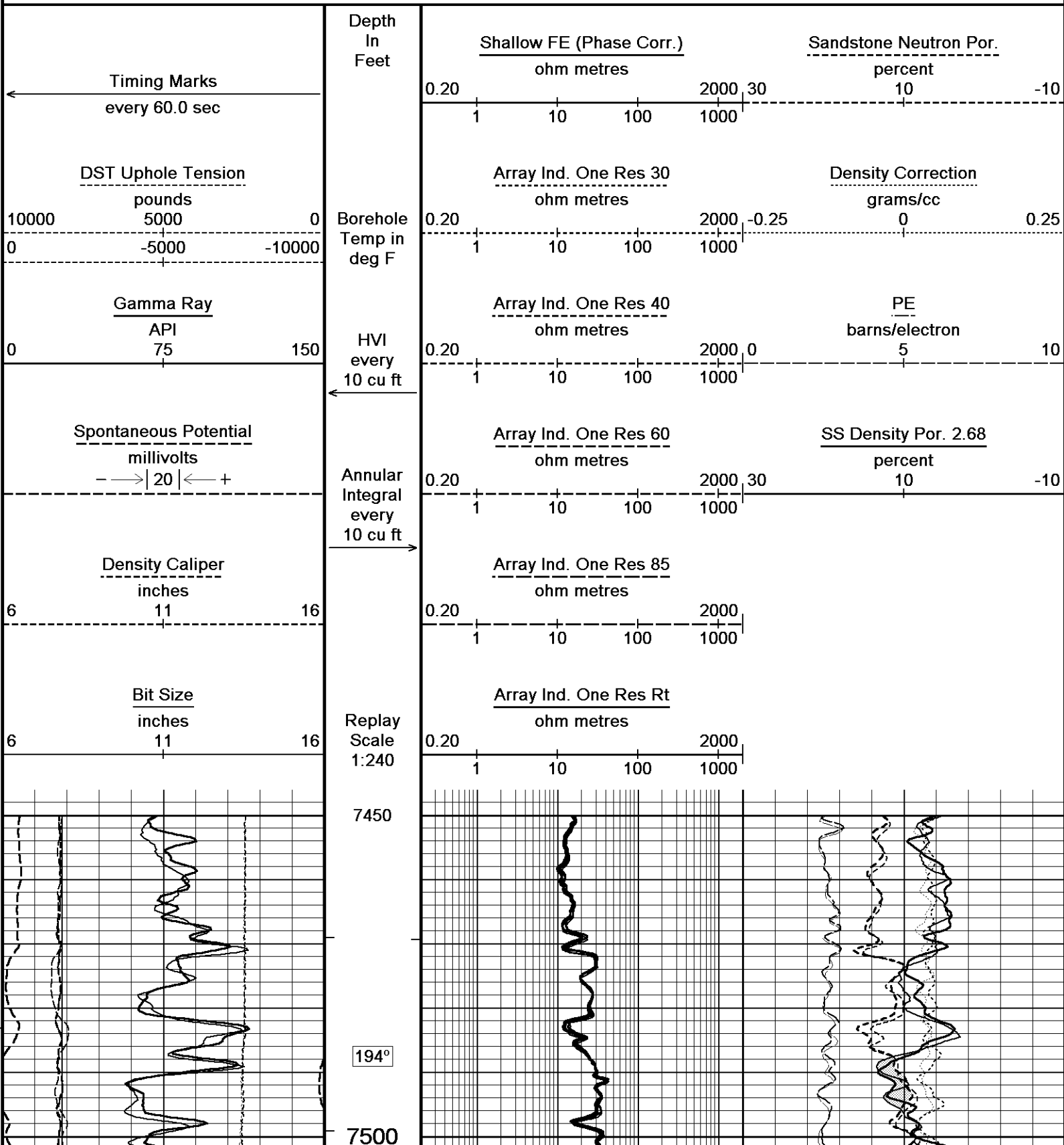


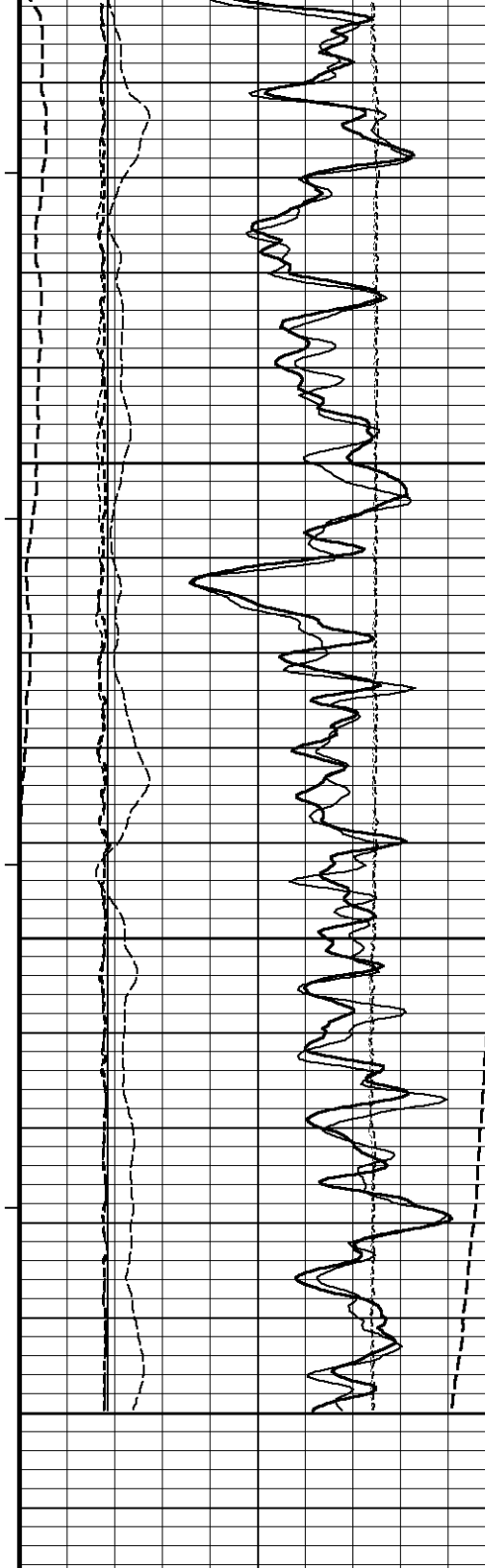


5 INCH MAIN LOG



OVERLAY





194°

7550

195°

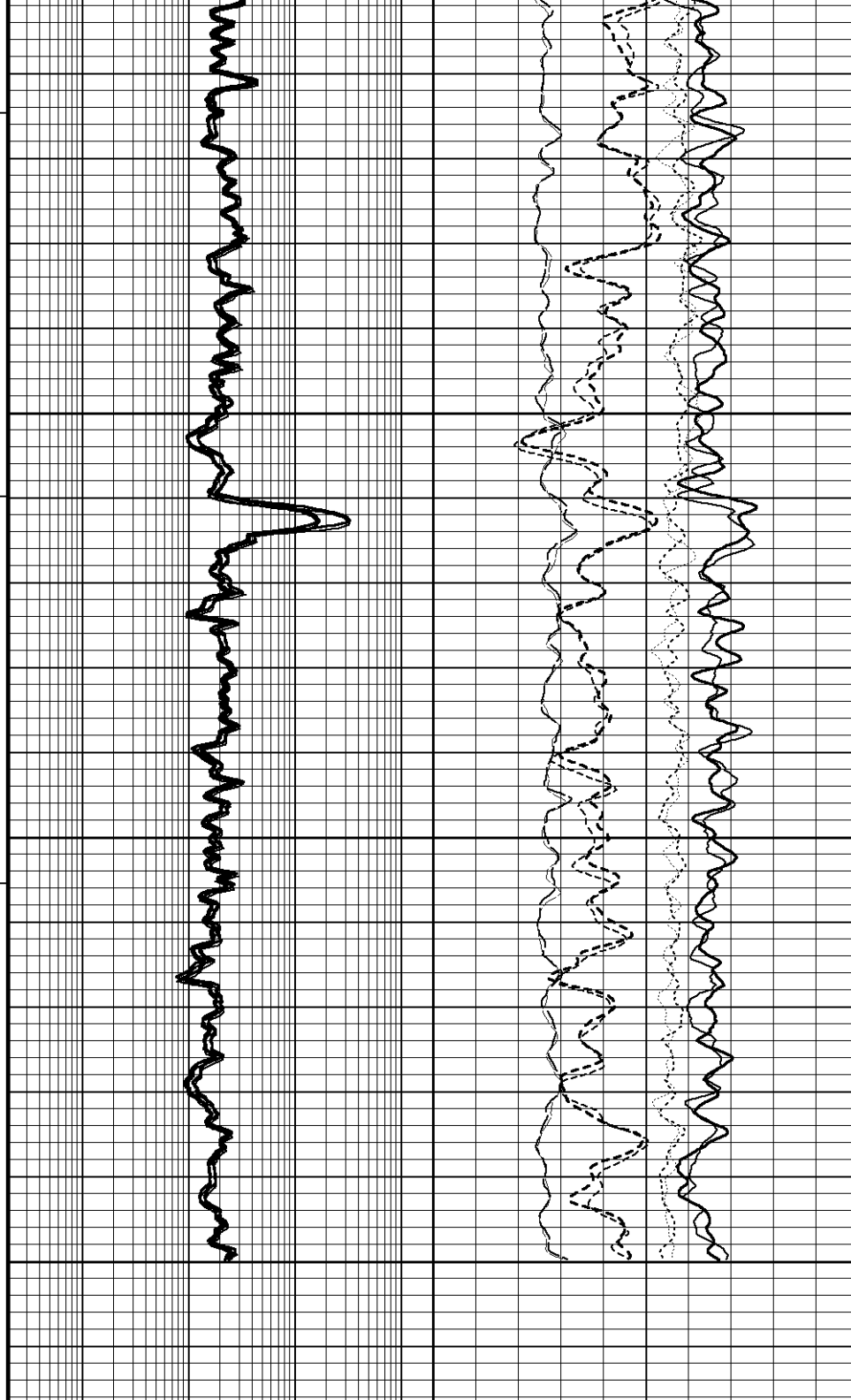
7600

195°

7650

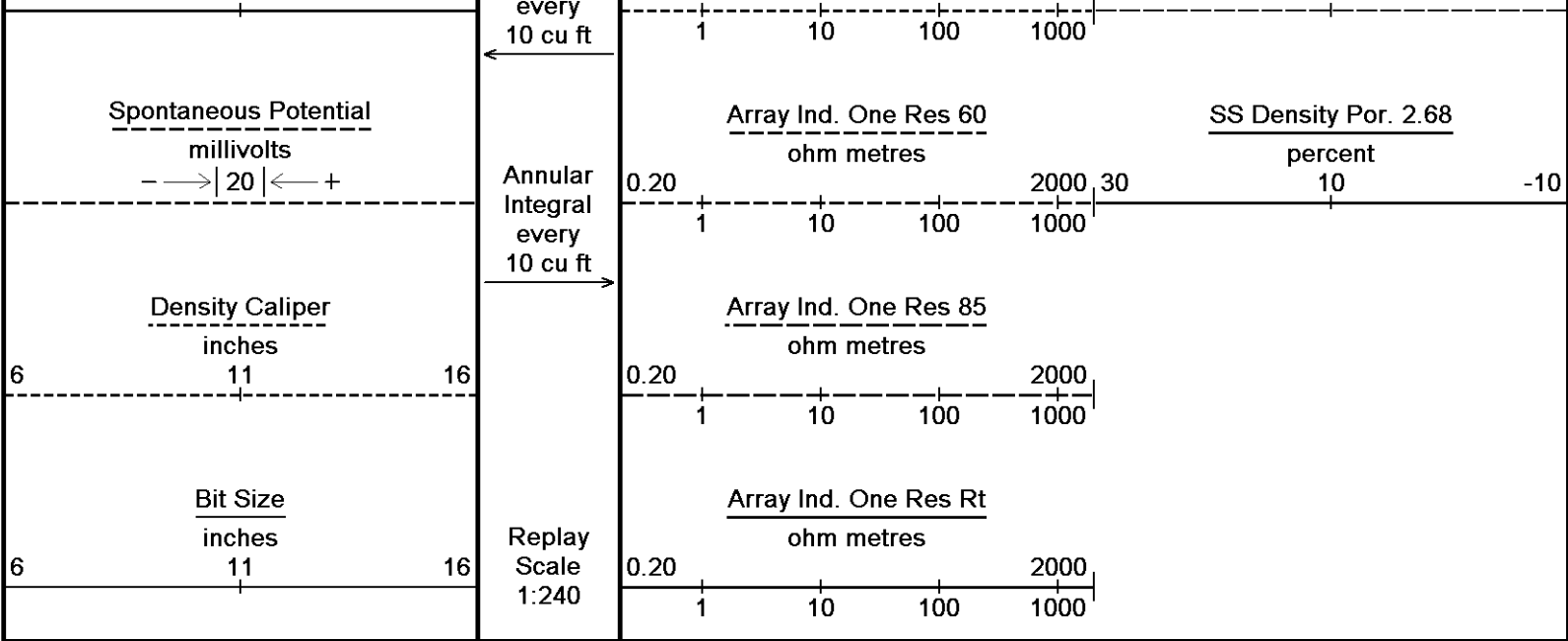
7664

Depth
In
Feet



Borehole
Temp in
deg F

HVI



Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\LOGS\GJ11-118\main2.dta
 System Versions: Logged with 11.03.3657 Processed with 11.03.3657 Plotted with 11.02.3186

Plotted on 14-JUL-2011 10:31
 Recorded on 12-JUL-2011 13:34
 Recorded on 12-JUL-2011 13:09

↑ OVERLAY ↑

BEFORE SURVEY CALIBRATION

C:\LOGS\GJ11-118\main2.dta

General Constants All 000 Last Edited on 12-JUL-2011,11:41

General Parameters

Mud Resistivity	2.770	ohm-metres
Mud Resistivity Temperature	91.000	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 12-JUL-2011 10:57

Reading No	Measured	Calibrated (lbs)
1	14927.99	0.00
2	15577.95	330.00

Gamma Calibration MCG-D.A 287 Field Calibration on 11-JUL-2011 23:04

	Measured	Calibrated (API)
Background	128	87
Calibrator (Gross)	1471	999
Calibrator (Net)	1343	912

Gamma Constants MCG-D.A 287 Last Edited on 12-JUL-2011,10:42

Gamma Calibrator Number	GRC-072
Mud Density	1.28 gm/cc

Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG-D.A 287			Field Calibration on 12-JUL-2011,10:42
	Measured	Calibrated (mV)	
Reference 1	100.9	100.0	
Reference 2	-100.2	-100.0	

High Resolution Temperature Calibration MCG-D.A 287			Field Calibration on 12-JUL-2011,10:42
	Measured	Calibrated(Deg F)	
Lower	10.00	10.00	
Upper	50.00	50.00	

High Resolution Temperature Constants MCG-D.A 287			Last Edited on 12-JUL-2011,10:42
Pre-filter Length	11		

Neutron Calibration MDN-A.B 160			Base Calibration on 09-MAY-2011 11:52		Field Check on 11-JUL-2011 23:11	
Base Calibration						
	Measured		Calibrated (cps)			
	Near	Far	Near	Far		
	3186	99	3714	110		
Ratio	32.247		33.764			
Field Calibrator at Base			Calibrated (cps)			
			1296	1921		
Ratio	0.675					
Field Check			Calibrated (cps)			
			1323	1976		
Ratio	0.669					

Neutron Constants MDN-A.B 160			Last Edited on 12-JUL-2011,10:43			
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-MAY-2011 15:19		Field Check on 12-JUL-2011 11:02	
Base Calibration						
	Measured		Calibrated (ohm-m)			
Reference 1	0.0		0.0			
Reference 2	965.0		126.8			
Base Check	281.4					
Field Check	281.3					

FE Constants MFE-A.A 85			Last Edited on 12-JUL-2011,10:48			
Running Mode	No Sleeve					
MFE K Factor	0.1268					
Caliper Source for FE correction	Density Caliper					
Caliper Value for FE correction	N/A					
Barite Mud Correction	Not Applied					
Temperature Source	None					
Temperature	N/A					
Mud Salinity	0.00					
Formation Fluid Salinity Source	None					
Formation Fluid Salinity	N/A					
Barite Mud Correction	Not Applied					

Rm Source for PE correction
 Temp. for Rm Corr. MCG External Temperature
 Stand-off 0.5 inches

High Resolution Temperature Calibration MAI-B.A 213

Field Calibration on 12-JUL-2011,10:46

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

High Resolution Temperature Constants MAI-B.A 213

Last Edited on 12-JUL-2011,10:46

Pre-filter Length 11

Induction Calibration MAI-B.A 213

Base Calibration on 22-JUN-2011,04:47
 Field Check on

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	16.8	462.4	9.3	966.2
2	6.2	381.7	7.6	821.4
3	3.6	254.8	5.2	566.0
4	2.3	132.3	2.6	279.2

Array Temperature 73.6 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0
Deep	0.0	0.0	0.0	0.0
Medium	0.0	0.0	0.0	0.0
Shallow	0.0	0.0	0.0	0.0
Array Temperature	0.0		0.0	

Deg F

Induction Constants MAI-B.A 213

Last Edited on 12-JUL-2011,10:46

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

AFTER SURVEY CALIBRATION

C:\LOGS\GJ11-118\main2.dta

Gamma Check MCG-D.A 287

Field Calibration on 11-JUL-2011 23:04
After Survey Check on 12-JUL-2011 16:29

	Before (API)	After (API)
Background	87	26
Calibrator (Gross)	999	938
Calibrator (Net)	912	912

Neutron Check MDN-A.B 160

Before Survey Check on 11-JUL-2011 23:11
After Survey Check on 12-JUL-2011 16:25

	Near (cps)		Far (cps)	
	Before	After	Before	After
	1323	1305	1976	1969
		Ratio		
		Before	After	
		0.669	0.663	

FE Check MFE-A.A 85

Before Survey Check 12-JUL-2011 11:02
After Survey Check on 12-JUL-2011 16:17

	Before (ohm-m)	After (ohm-m)
	281.3	281.5

Induction Check MAI-B.A 213

Before Survey Check on
After Survey Check on 12-JUL-2011 16:16

Channel	Before Survey (mmho/m)		After Survey (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	15.4	3936.9
2	0.0	0.0	30.7	3540.3
3	0.0	0.0	29.2	3114.5
4	0.0	0.0	19.2	2096.9
Deep	0.0	0.0	17.7	2078.6
Medium	0.0	0.0	42.9	4088.4
Shallow	0.0	0.0	46.2	5159.8
Array Temperature		0.0		87.9

Photo Density Check MPD-B 167

Before Survey Check on 12-JUL-2011 11:06
After Survey Check on 12-JUL-2011 16:21

Density Check

		Near		Far	
	Before	After	Before	After	
	1194.1	1193.7	1729.8	1724.2	

PE Check

	Before	After
WS	218.0	217.9
WH	1068.4	1066.4

DOWNHOLE EQUIPMENT

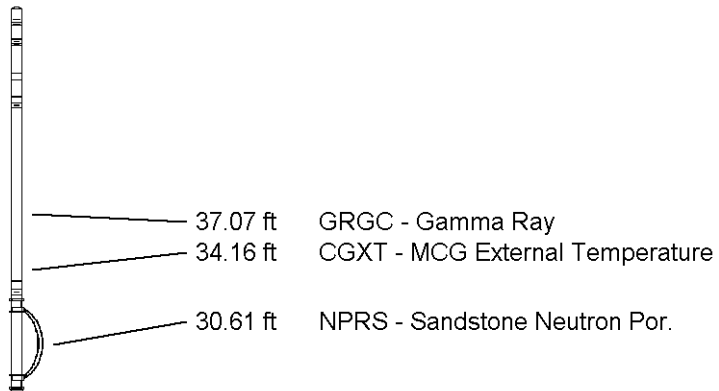
C:\LOGS\GJ11-118\main2.dta

- 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-A.B 160 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in



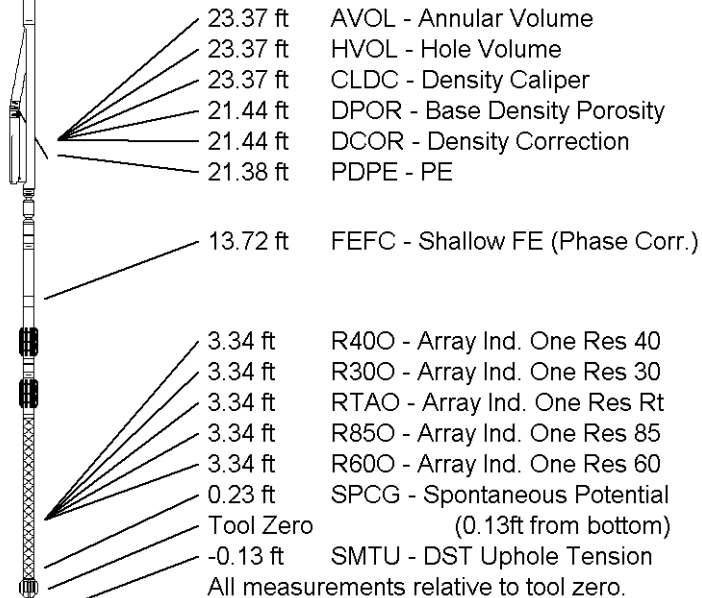
Compact Density/Caliper
 MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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

Compact Focused Electric
 MFE-A.A 85 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
 MAI-B.A 213 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 46.67 ft Weight: 368.2 lb



COMPANY	BILL BARRETT CORPORATION
WELL	KAUFMAN 22C-25-692
FIELD	MAMM CREEK
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	5945.00	feet	First Reading	7728.00	
Elevation Drill Floor	5944.00	feet	Depth Driller	7732.00	feet
Elevation Ground Level	5922.00	feet	Depth Logger	7731.00	feet



COMPACT TRIPLE COMBO
 QUICKLOOK
 LOG

