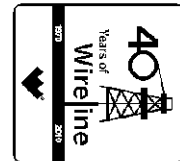




Weatherford[®]

**COMPACT TRIPLE COMBO
QUICKLOOK
LOG**

COMPANY **BILL BARRETT CORPORATION**
WELL **GGU SWANSON 32D-29-691**
FIELD **GIBSON GULCH**
PROVINCE/COUNTY **GARFIELD**
COUNTRY/STATE **U.S.A. / COLORADO**
LOCATION **SHL: 1221' FNL & 1342' FEL**
BHL: 1473' FNL & 1990' FEL



SEC	TWP	RGE	Other Services
29	6S	91W	
API Number 05-045-19801			
Permit Number			
Permanent Datum G.L., Elevation 6104 feet			
Log Measured From KB @ 23 FT above Permanent Datum			
Drilling Measured From K.B.			
Date	22-FEB-2011		
Run Number	ONE		
Depth Driller	7467.00	feet	
Depth Logger	7456.00	feet	
First Reading	7456.00		
Last Reading	768.00		
Casing Driller	768.00	feet	
Casing Logger	768.00	feet	
Bit Size	7.880	inches	
Hole Fluid Type	LSND		
Density / Viscosity	10.60 lb/USg	55.00 CP	
PH / Fluid Loss	9.60	5.20 ml/30Min	
Sample Source	FLOW LINE		
Rm @ Measured Temp	4.0 @ 80.0	ohm-m	
Rmf @ Measured Temp	3.20 @ 80.0	ohm-m	
Rmc @ Measured Temp	4.80 @ 80.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.85 @ 176.0	ohm-m	
Time Since Circulation	6 HOURS		
Max Recorded Temp	176.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13173	G.D JCT	
Recorded By	J.GARCIA		
Witnessed By	C.CROW		

Elevations:	feet
KB	6127.00
DF	6126.00
GL	6104.00

BOREHOLE RECORD

Last Edited: 23-FEB-2011 01:26

Bit Size inches	Depth From feet	Depth To feet
8.750	768.00	7467.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	768.00	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. = 8.99" (9 5/8", 36 LB/FT CASING)

8.75 INCH BIT USED FROM SURFACE CASING TO 7456 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 3060 CU FT

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2320 CU.FT.

ENGINEER(S): J.GARCIA

OPERATOR: R.SYERS, S.KAISER

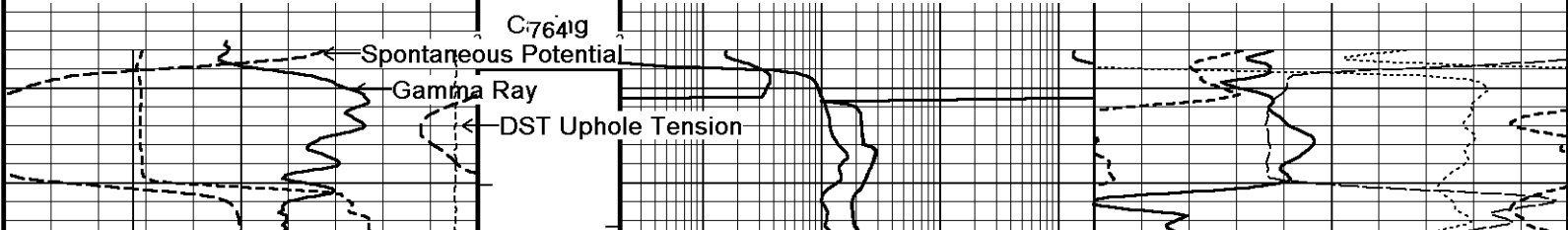
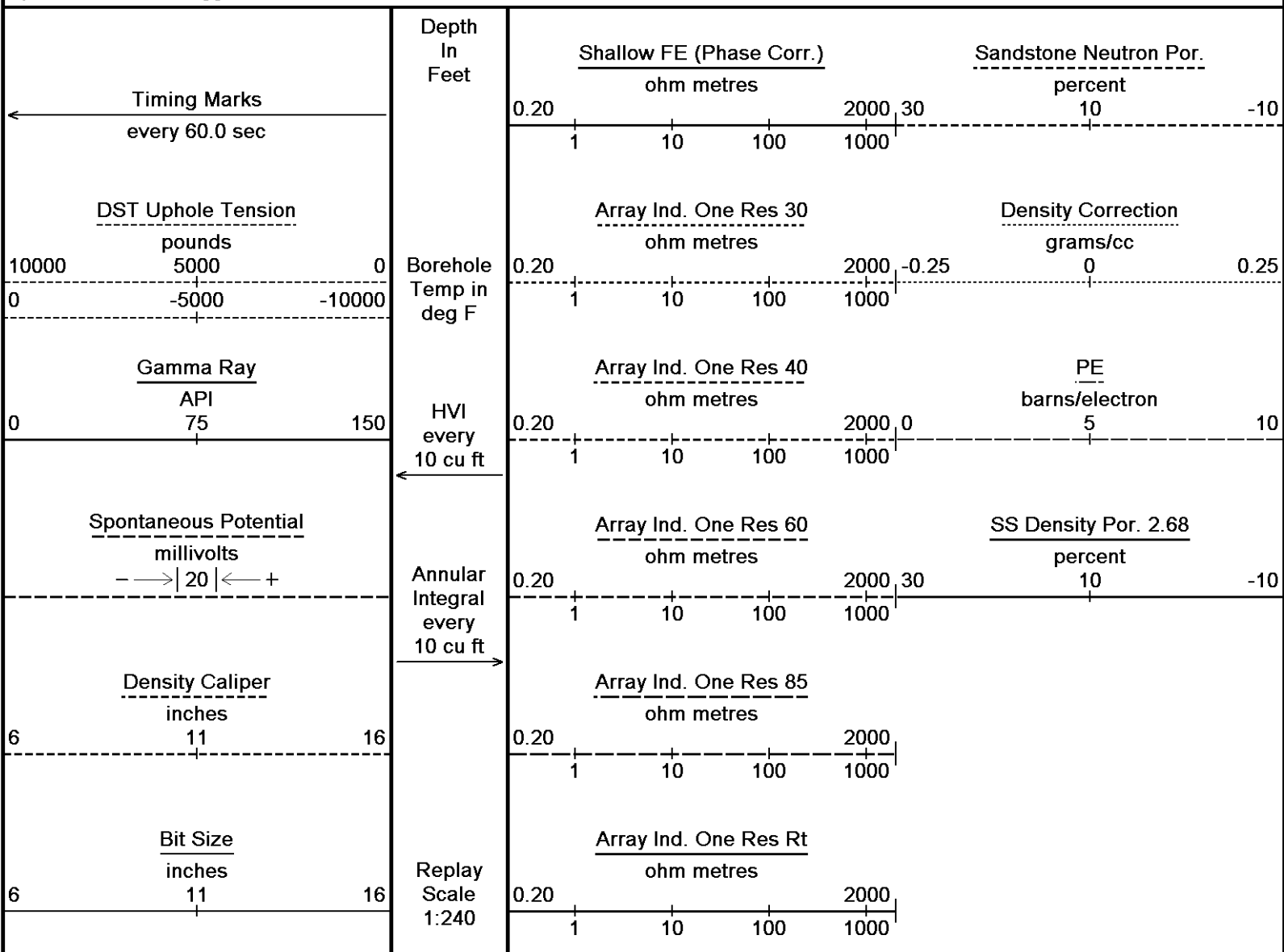
SERVICE ORDER: # 3524851

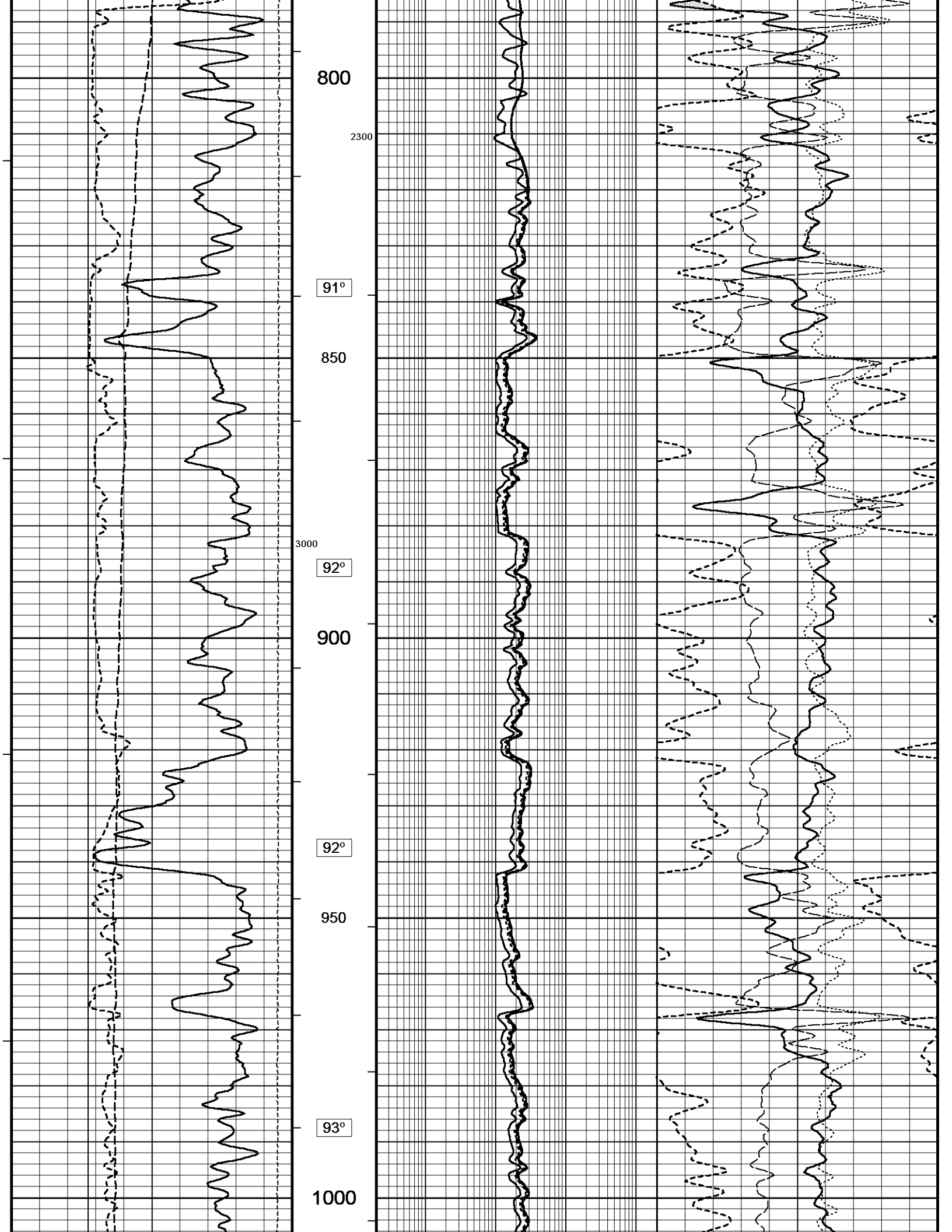
RIG: PATTERSON #307

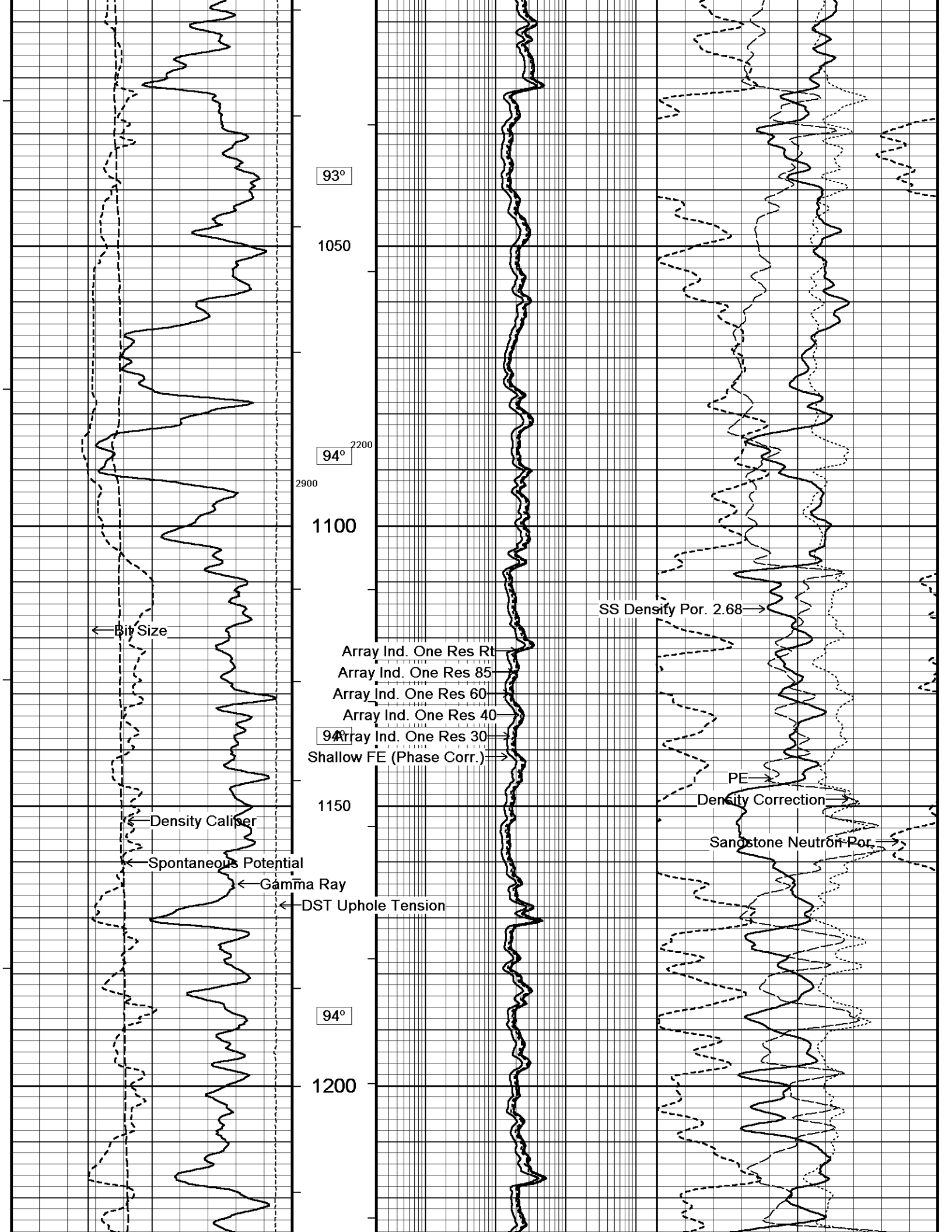
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

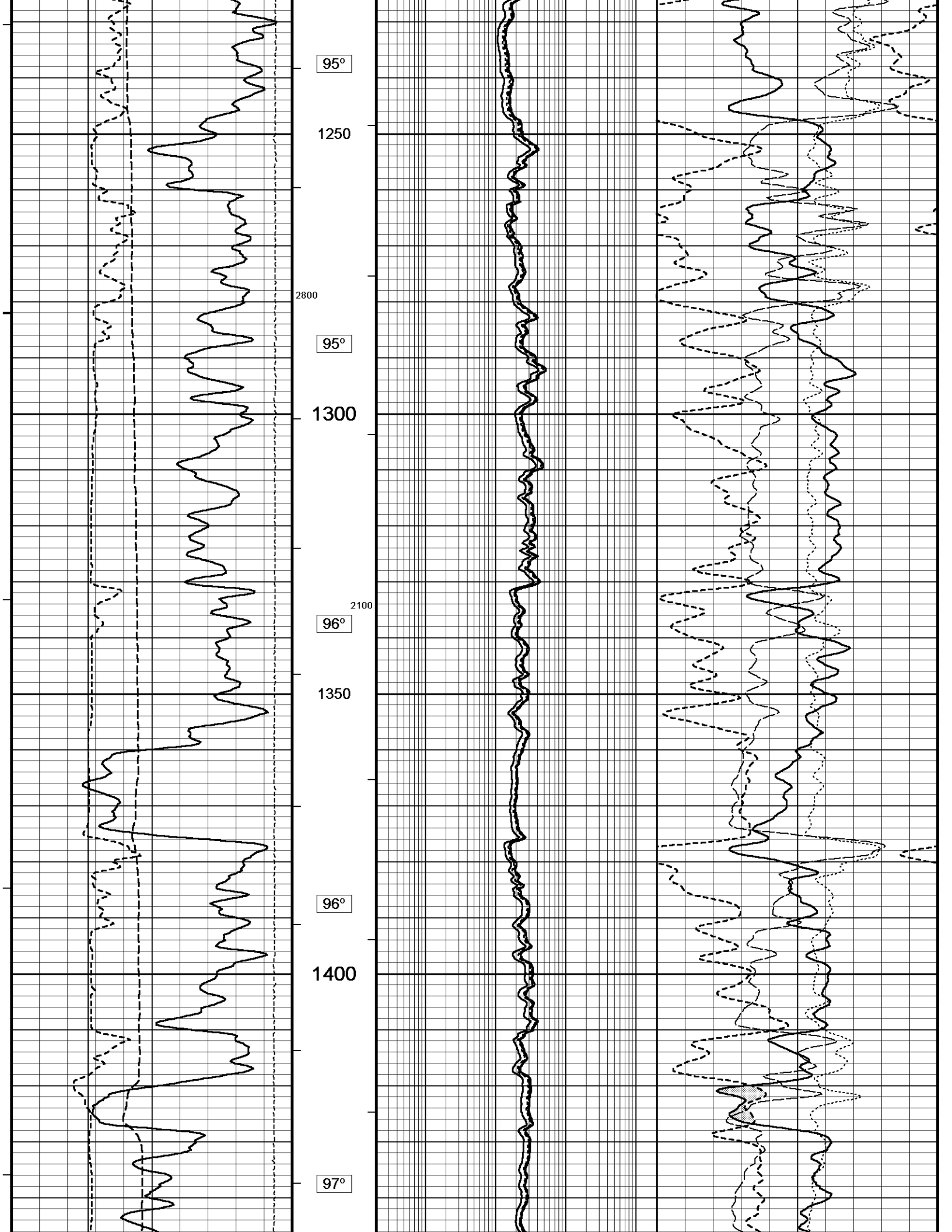
5 INCH MAIN LOG

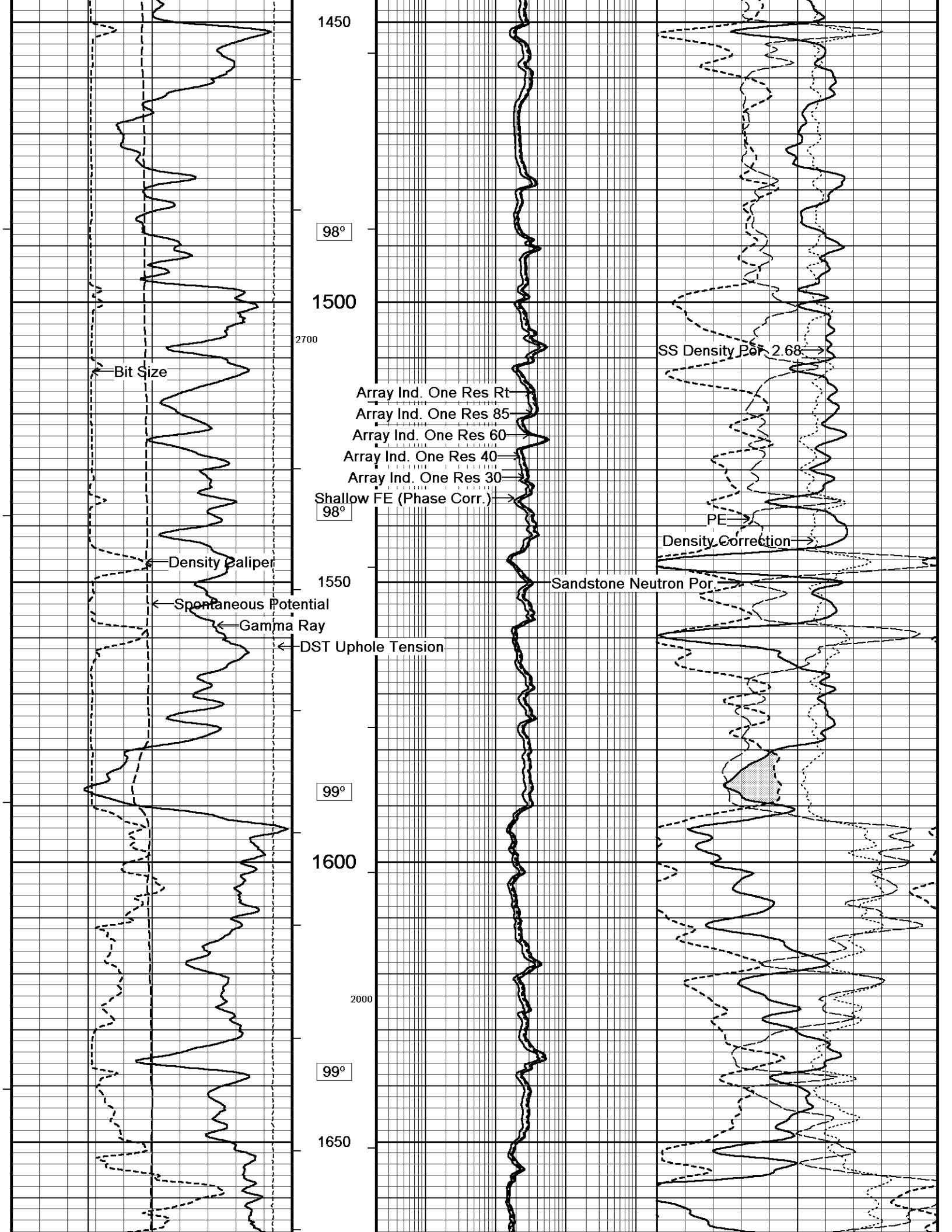
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Plotted on 23-FEB-2011 03:20
Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta
Recorded on 22-FEB-2011 23:21
System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

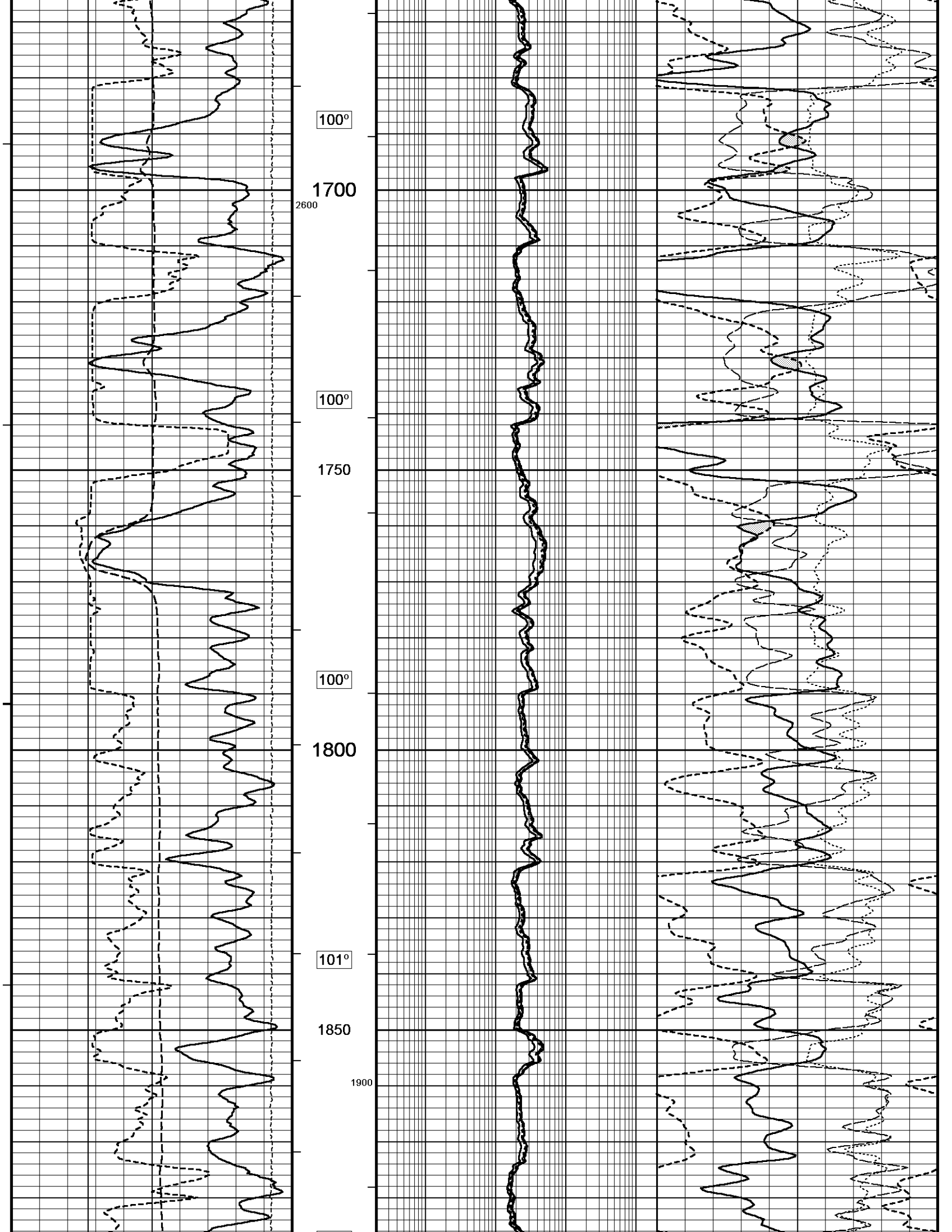


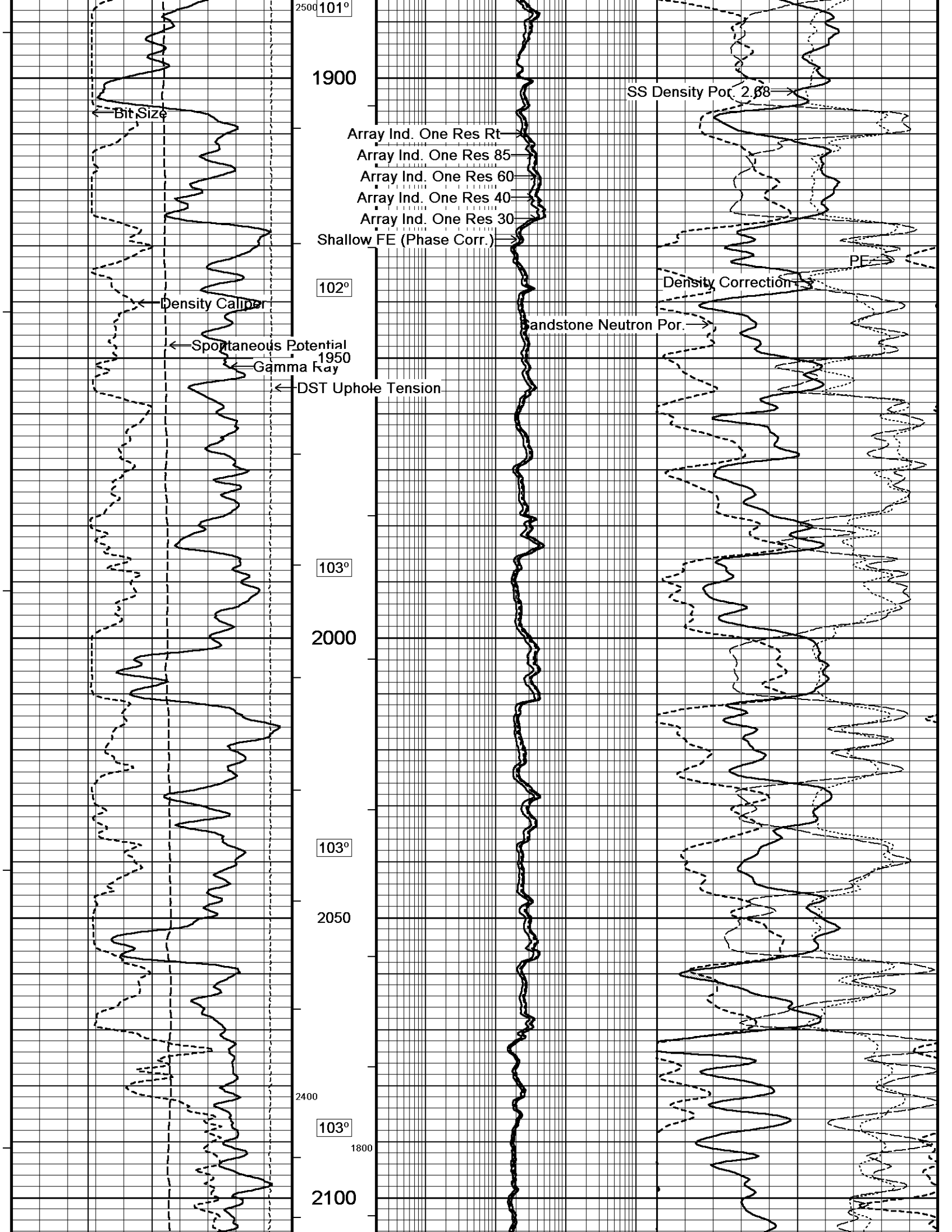


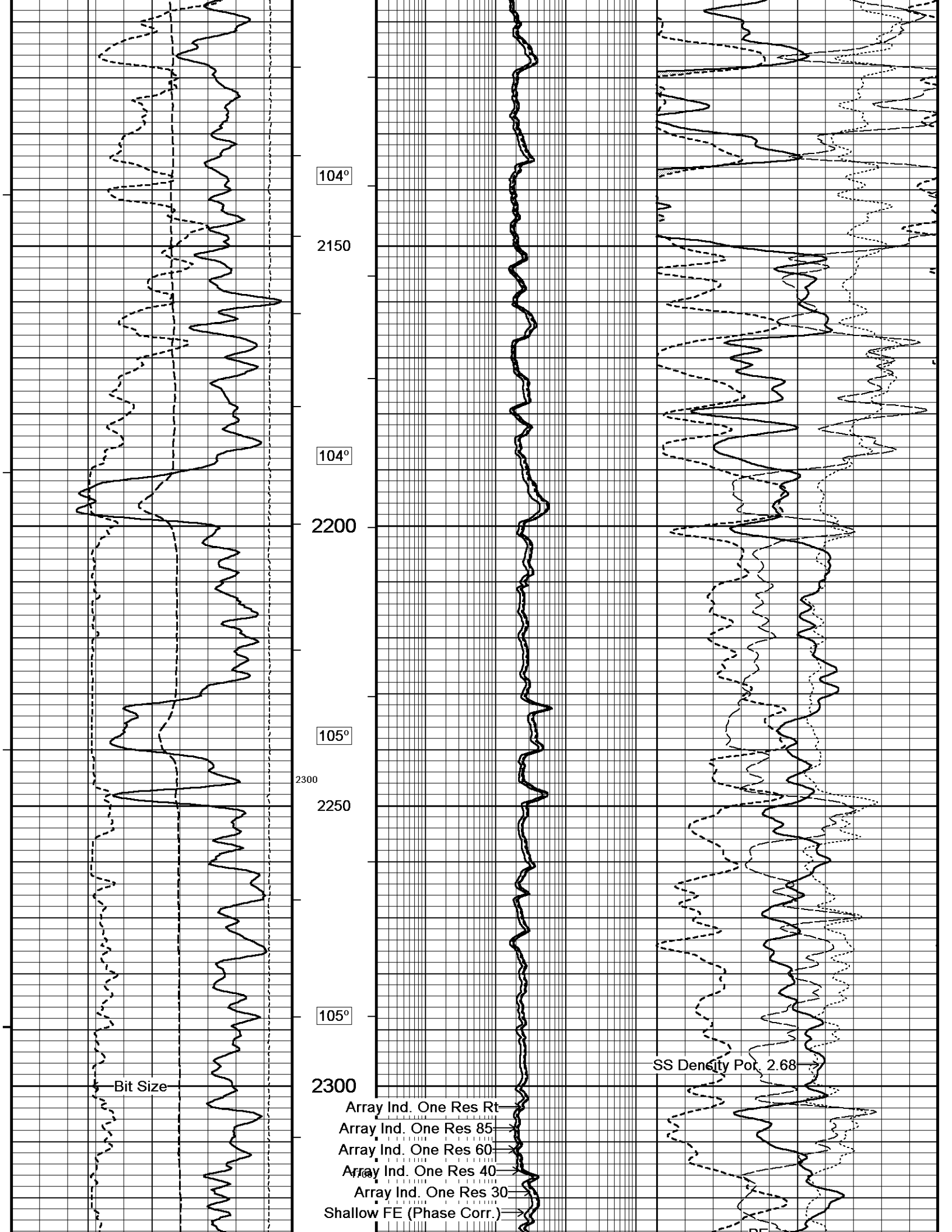


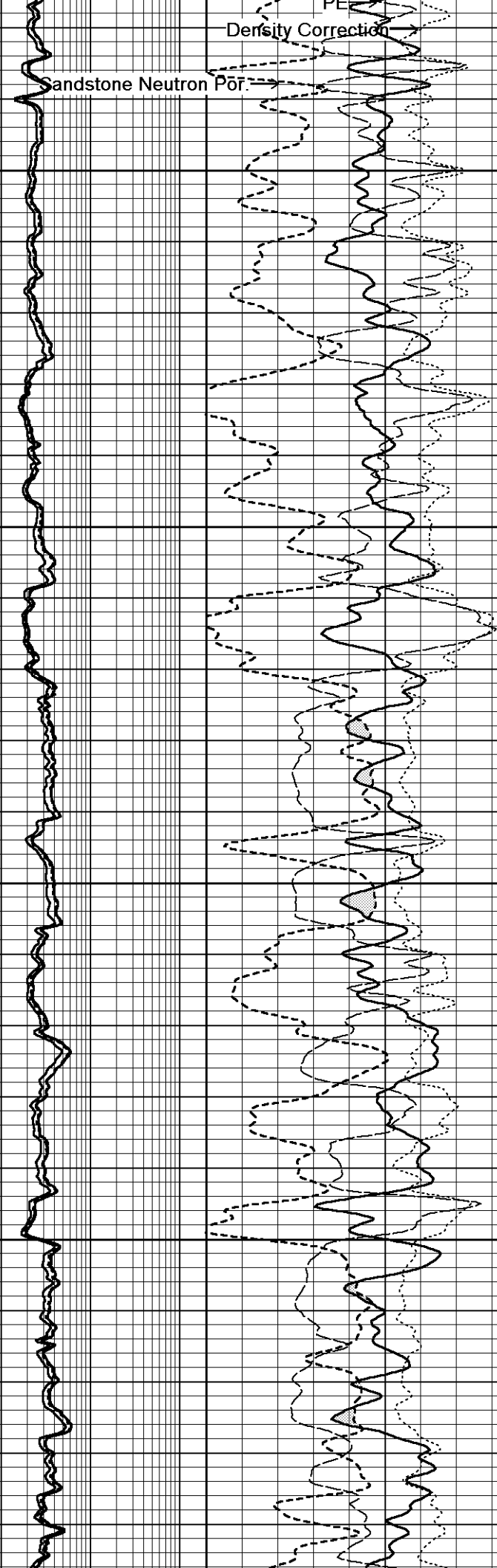
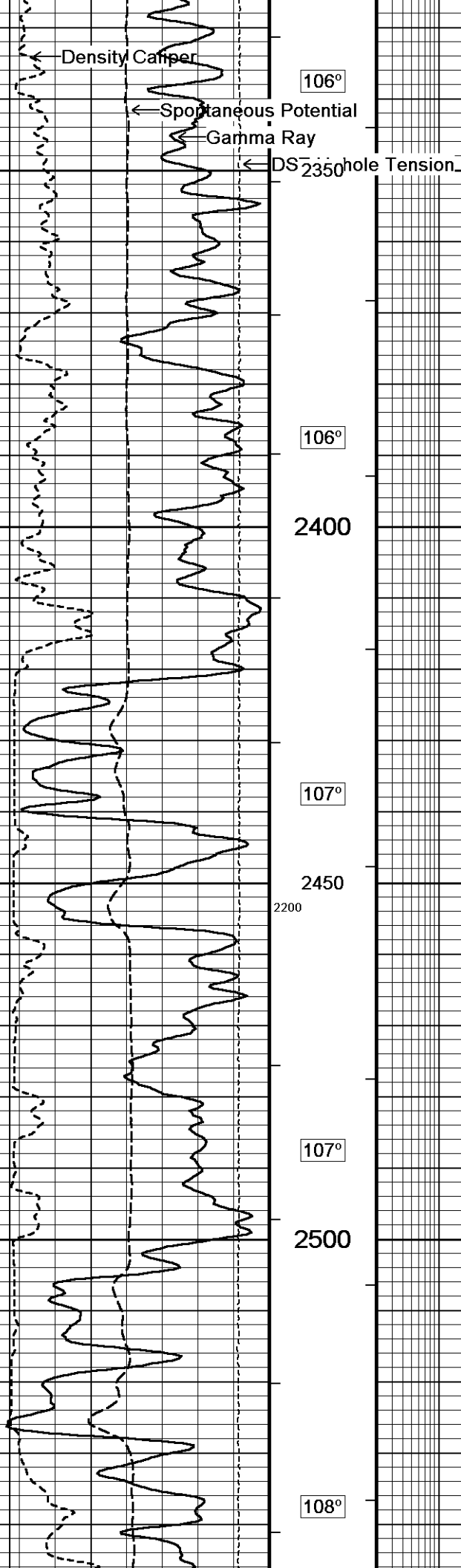


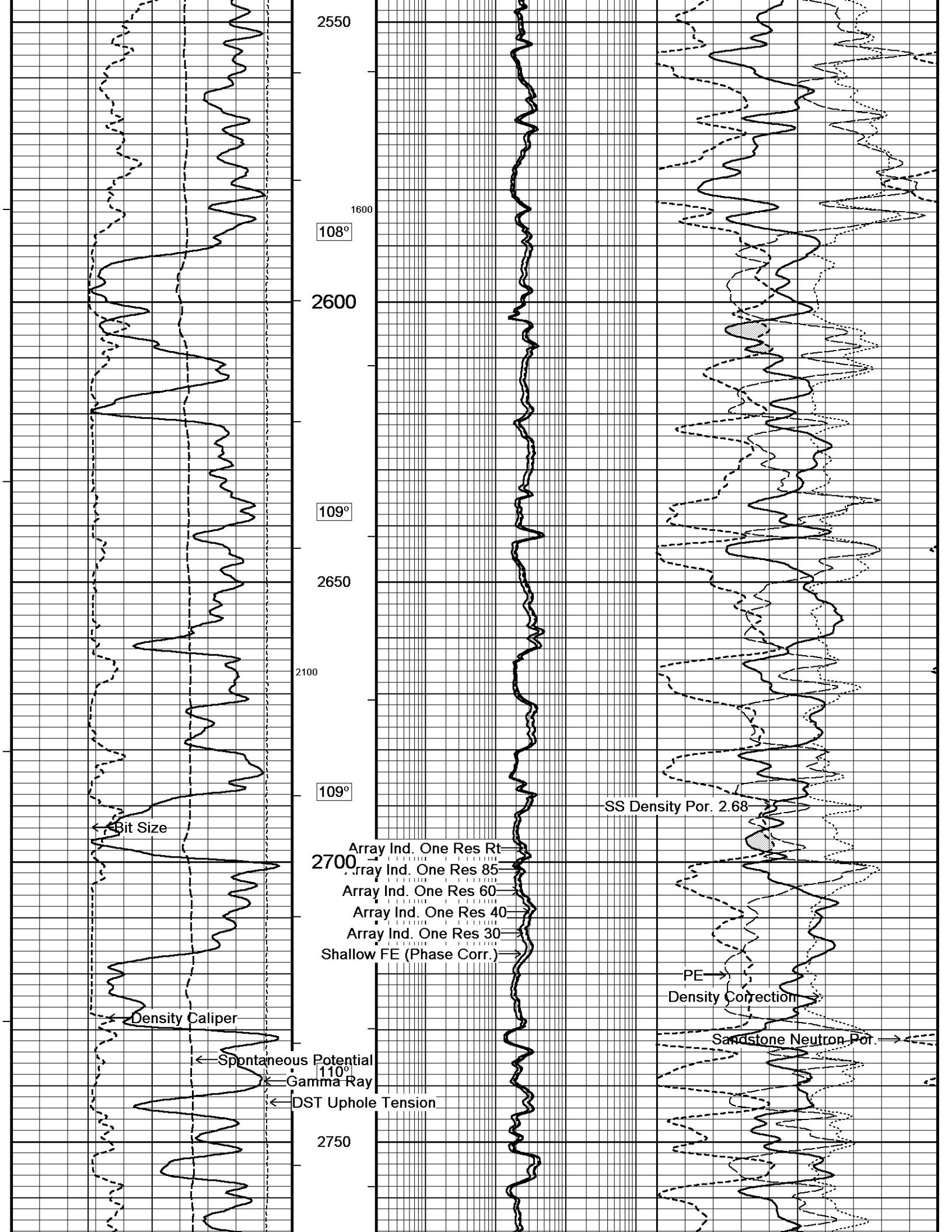


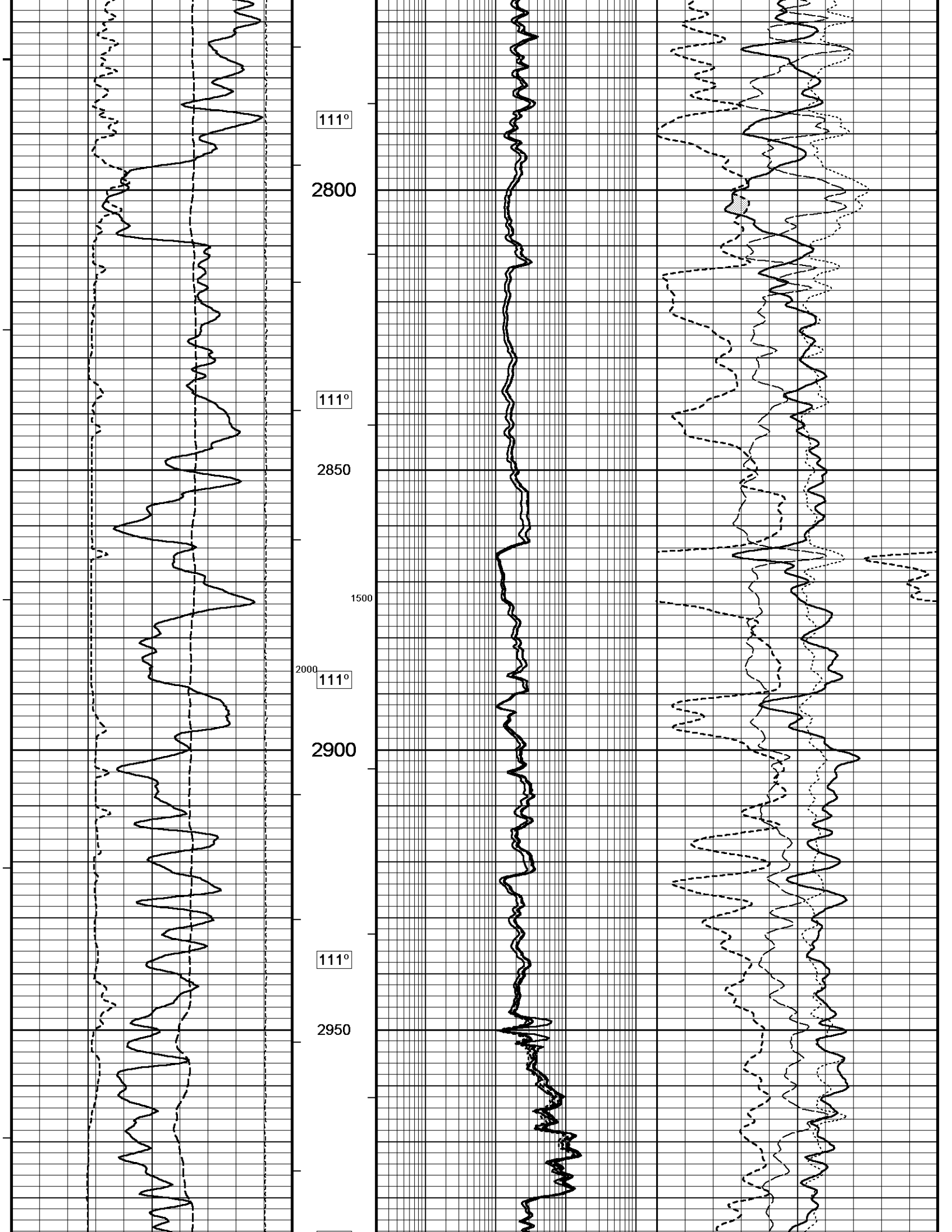


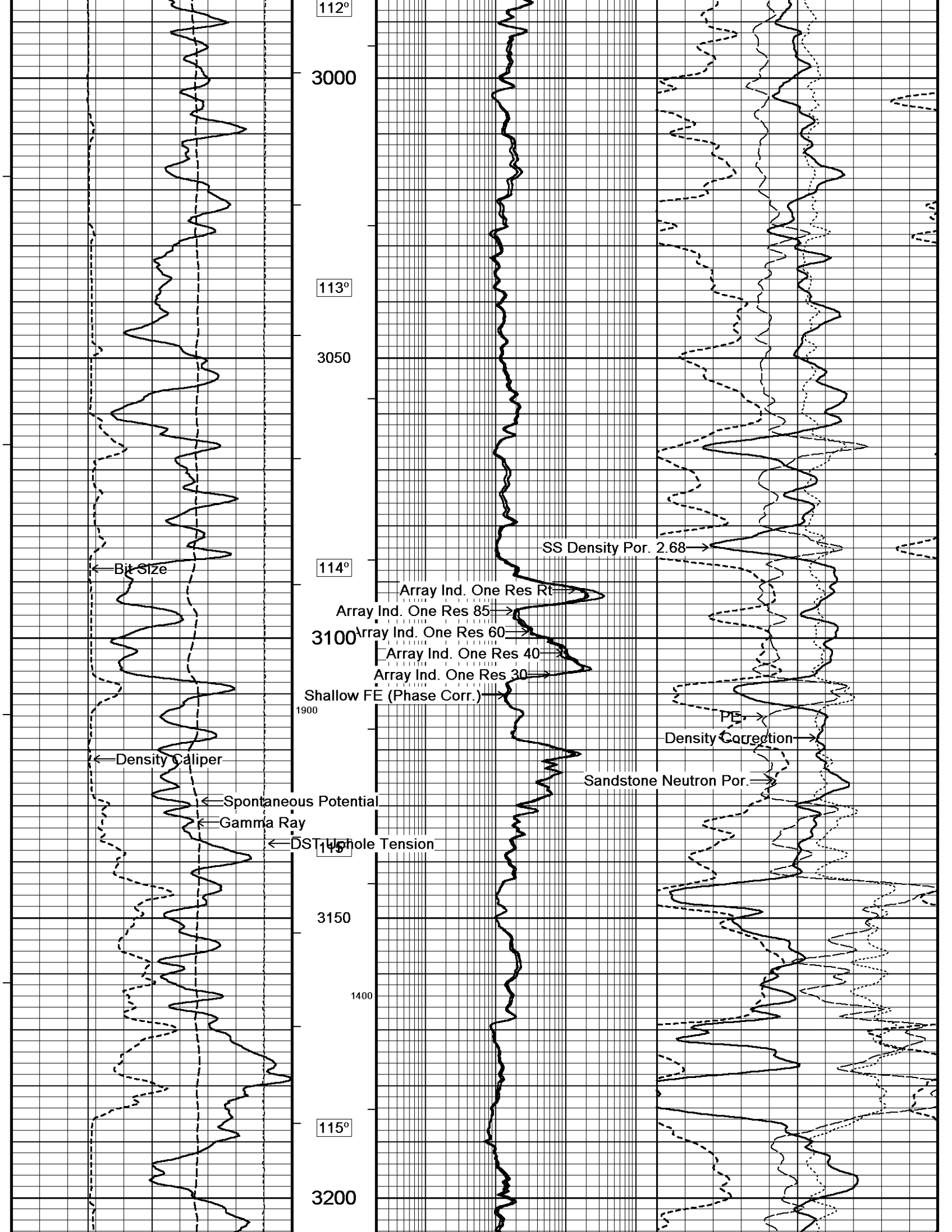


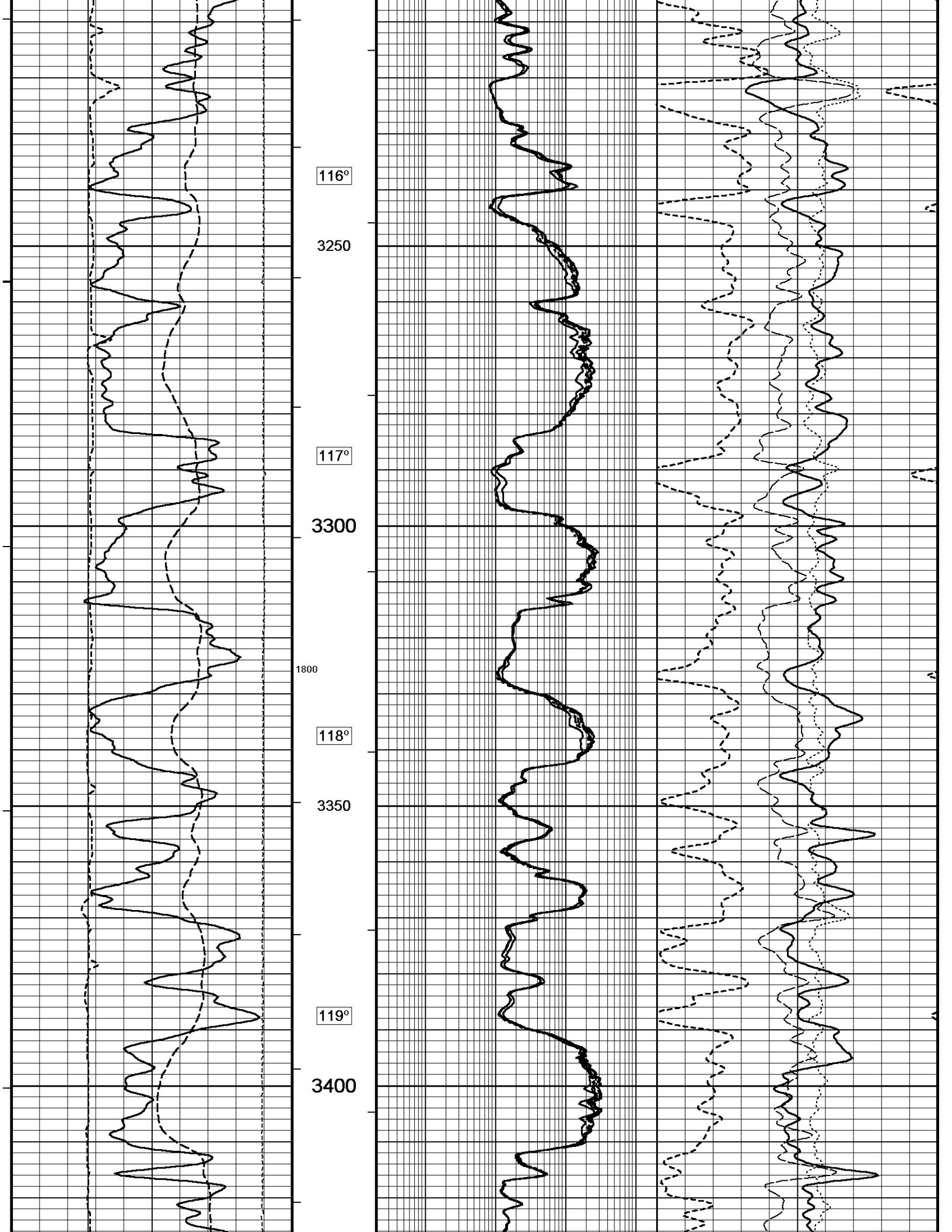


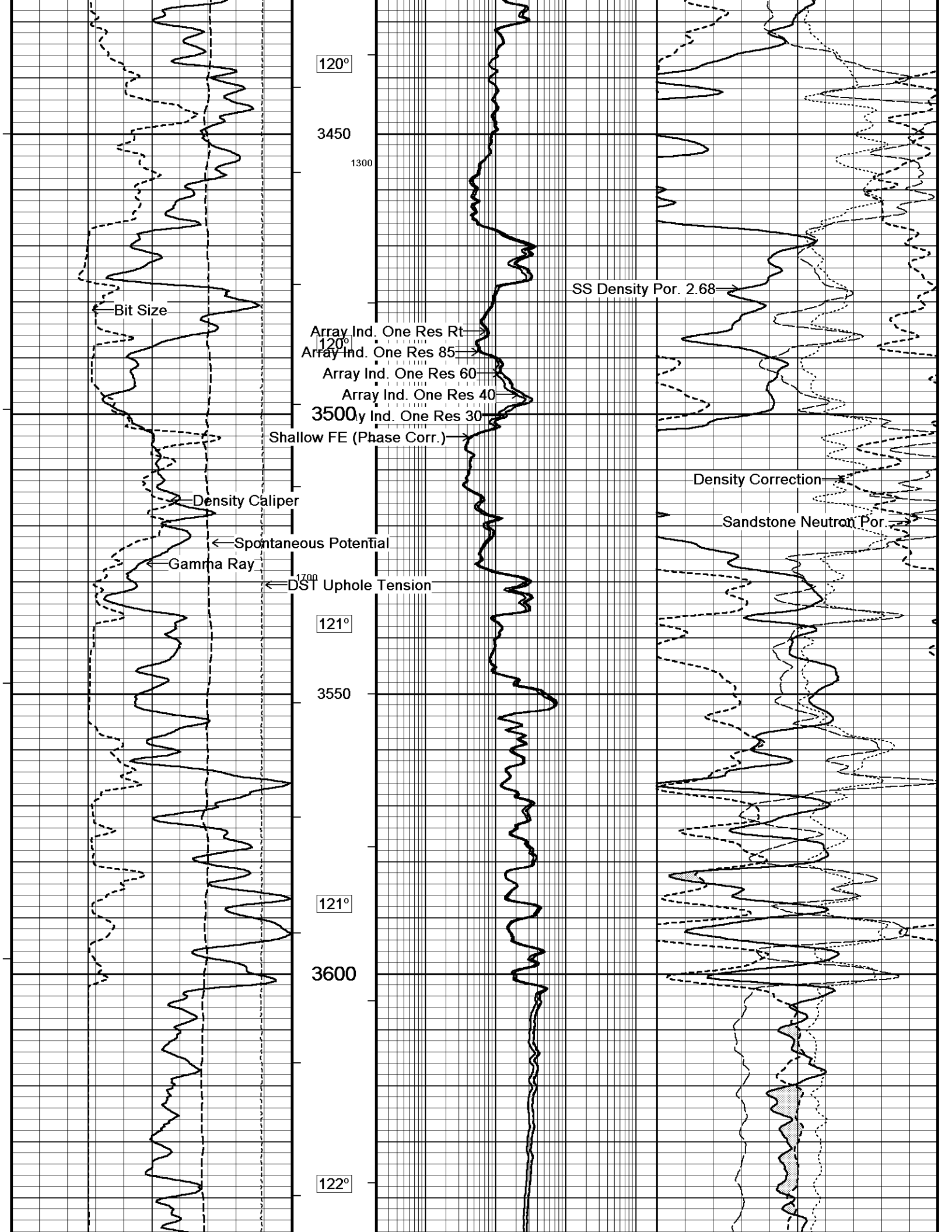


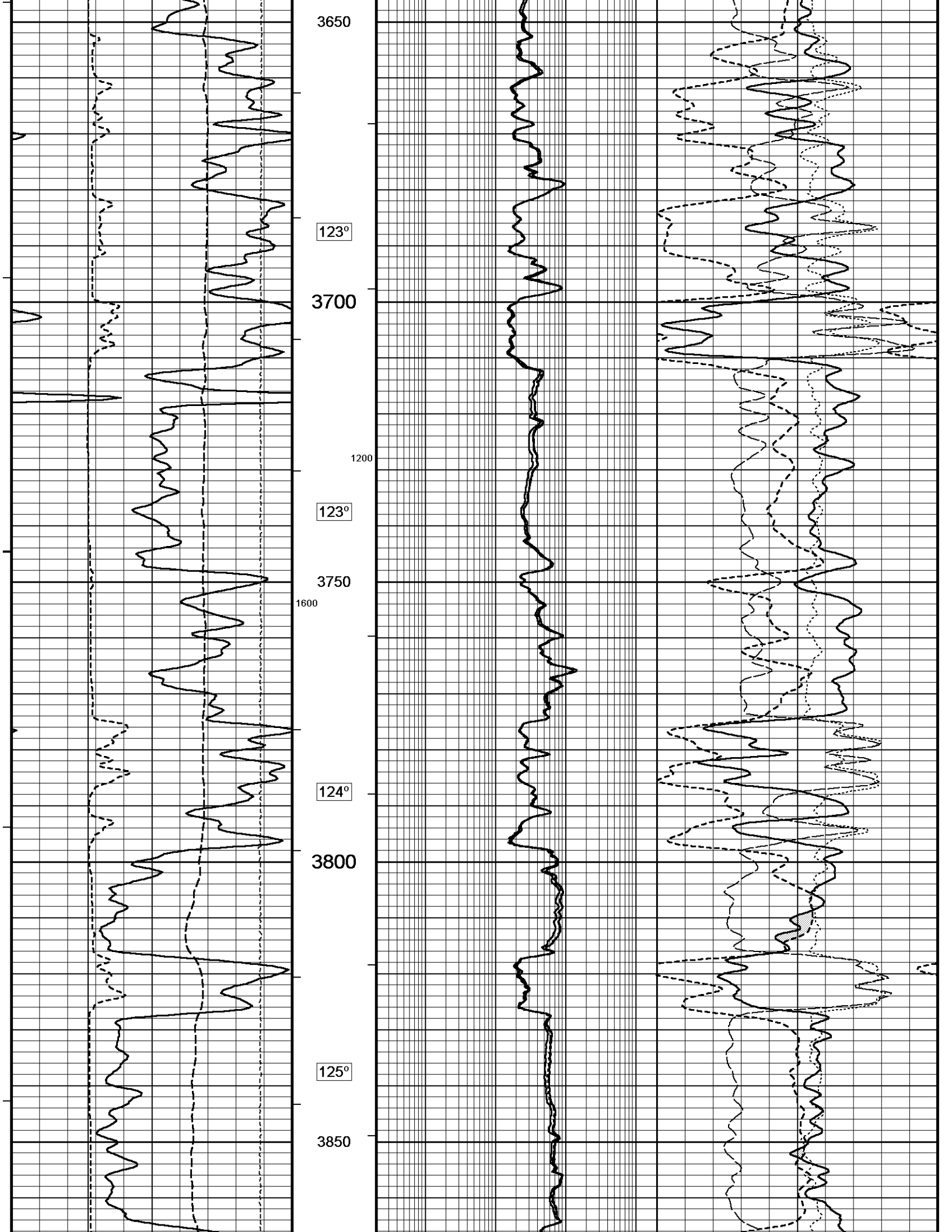


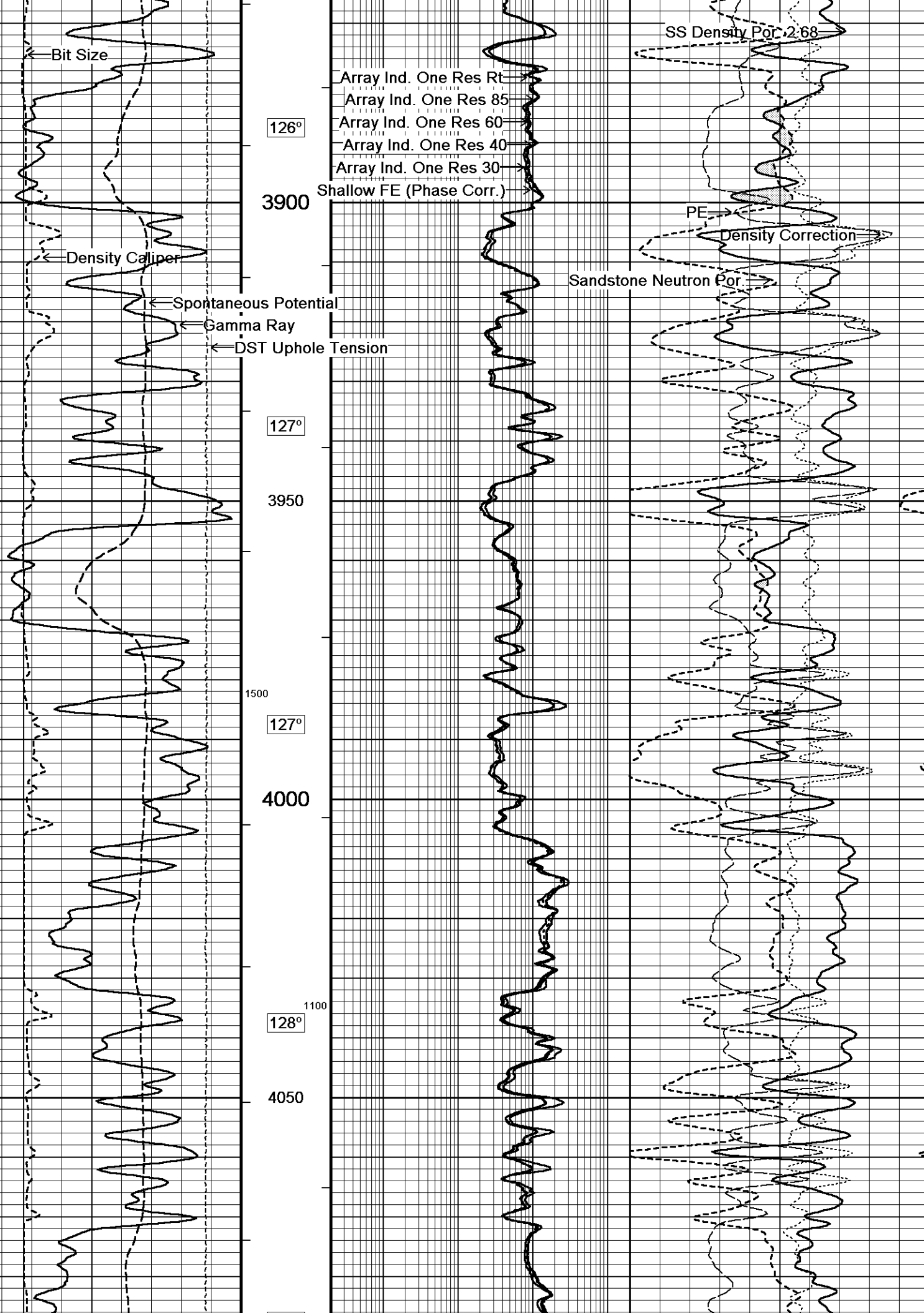


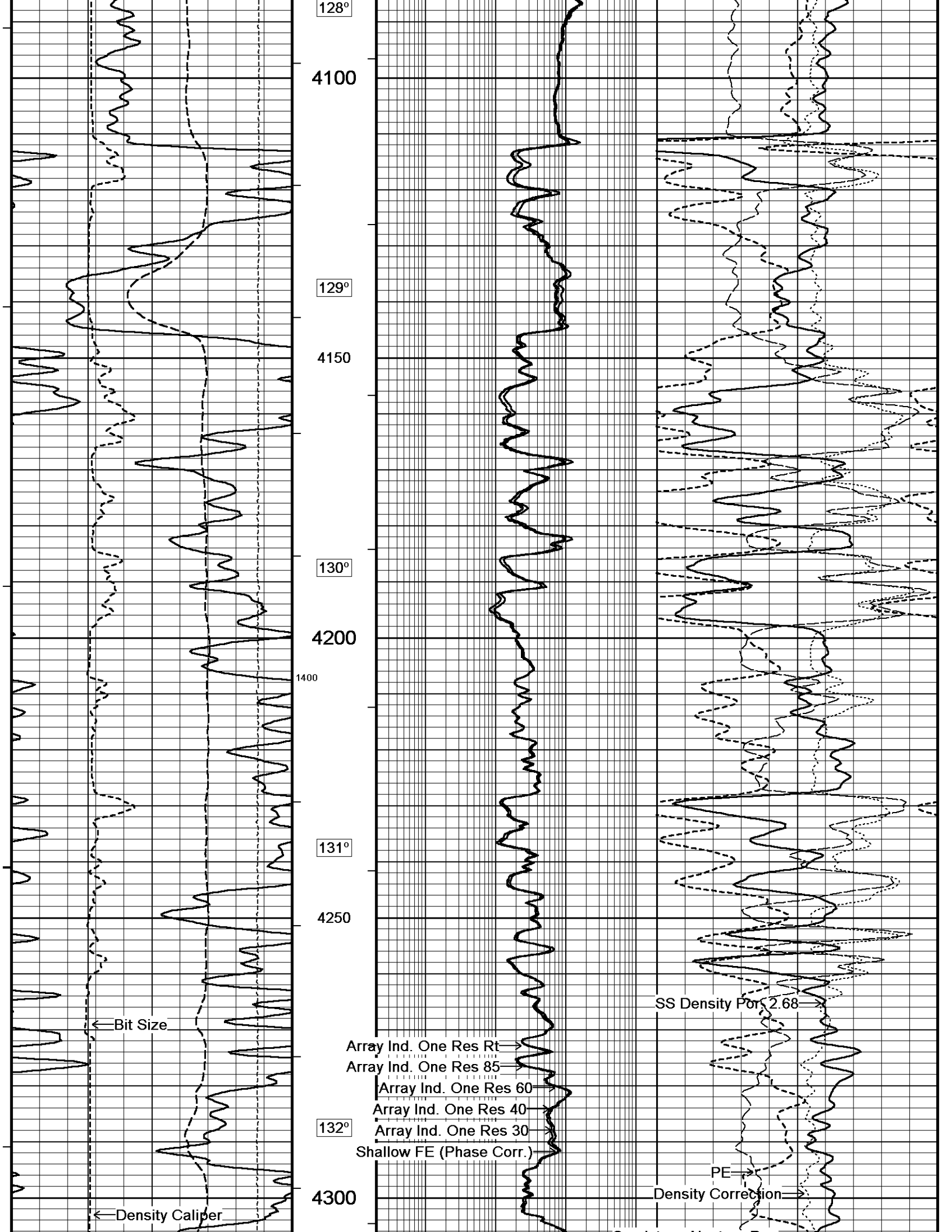


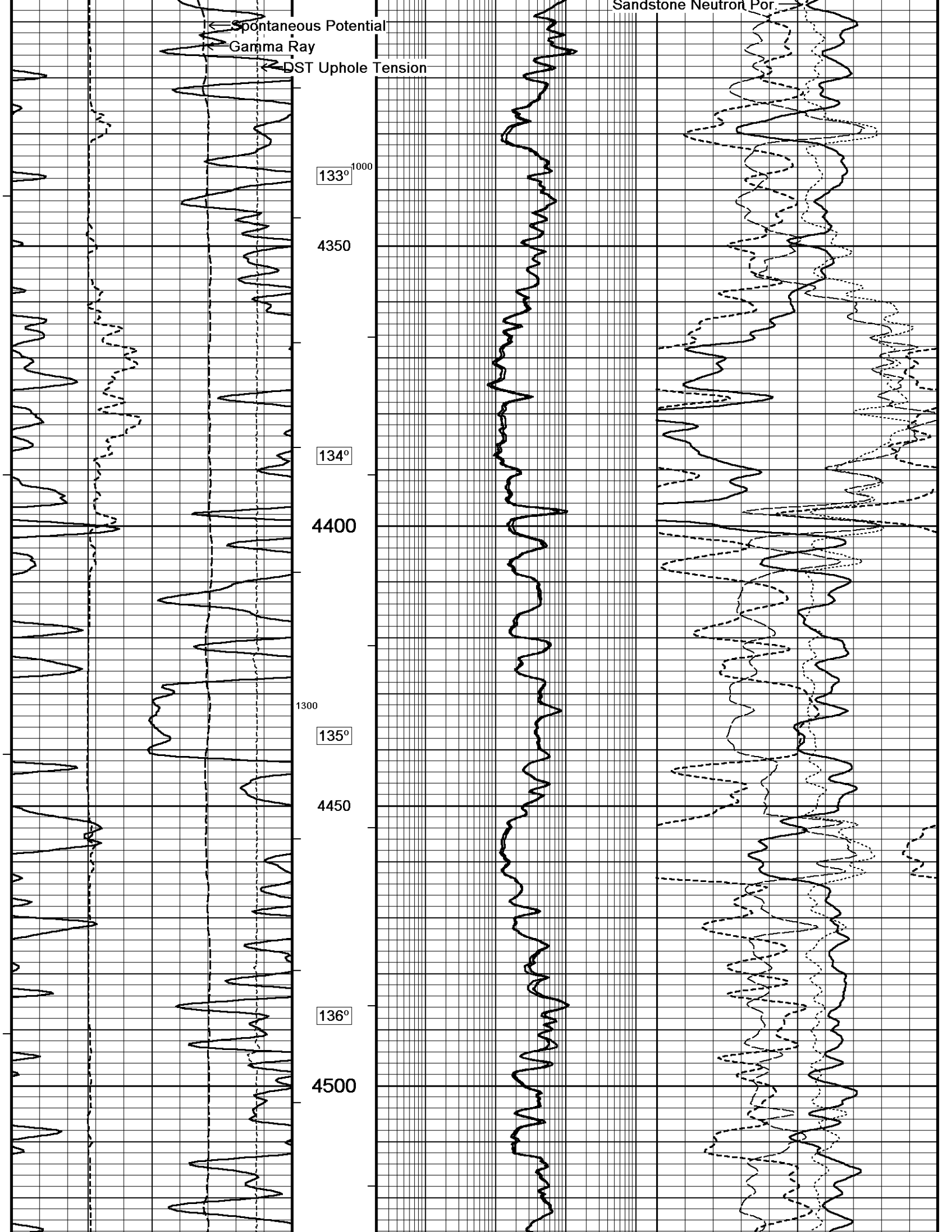


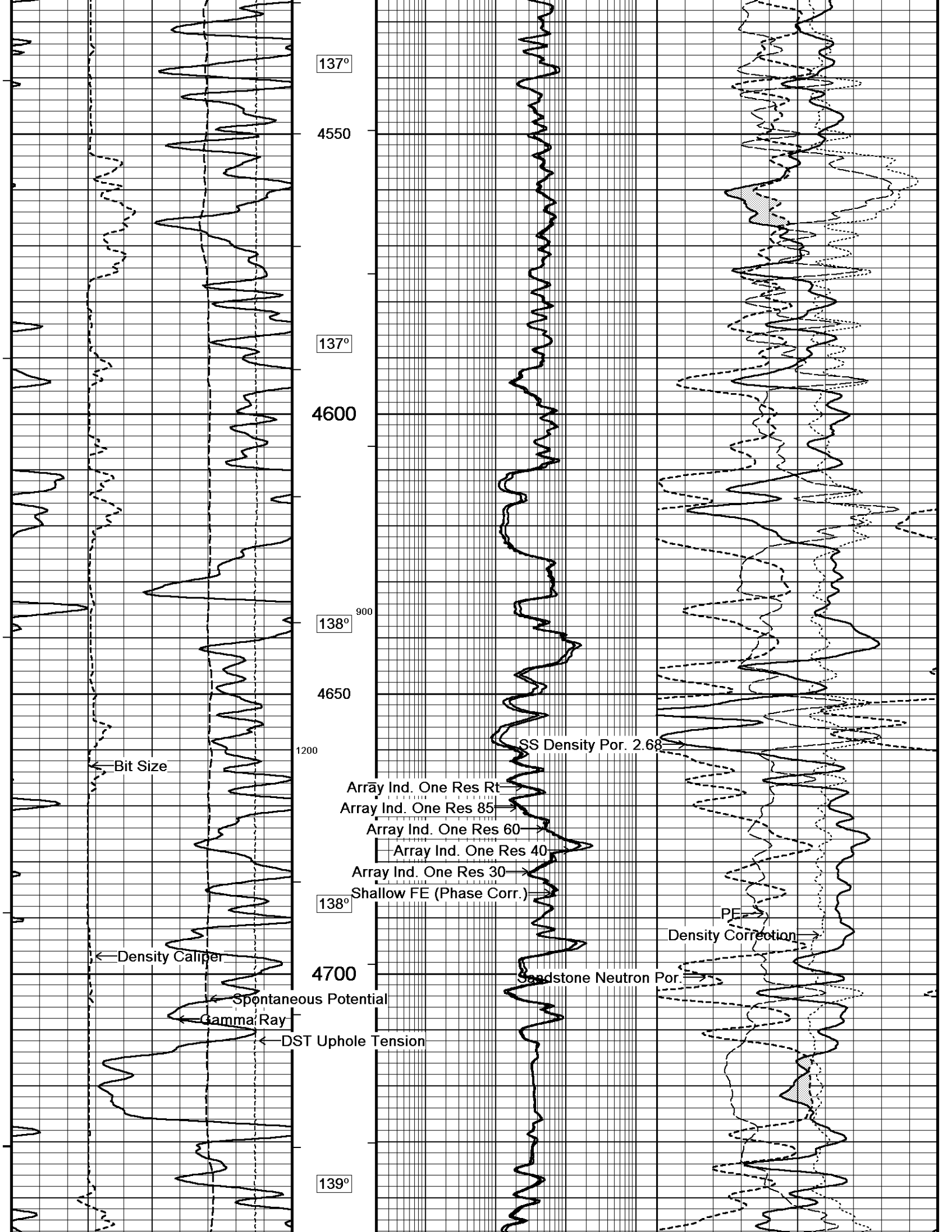


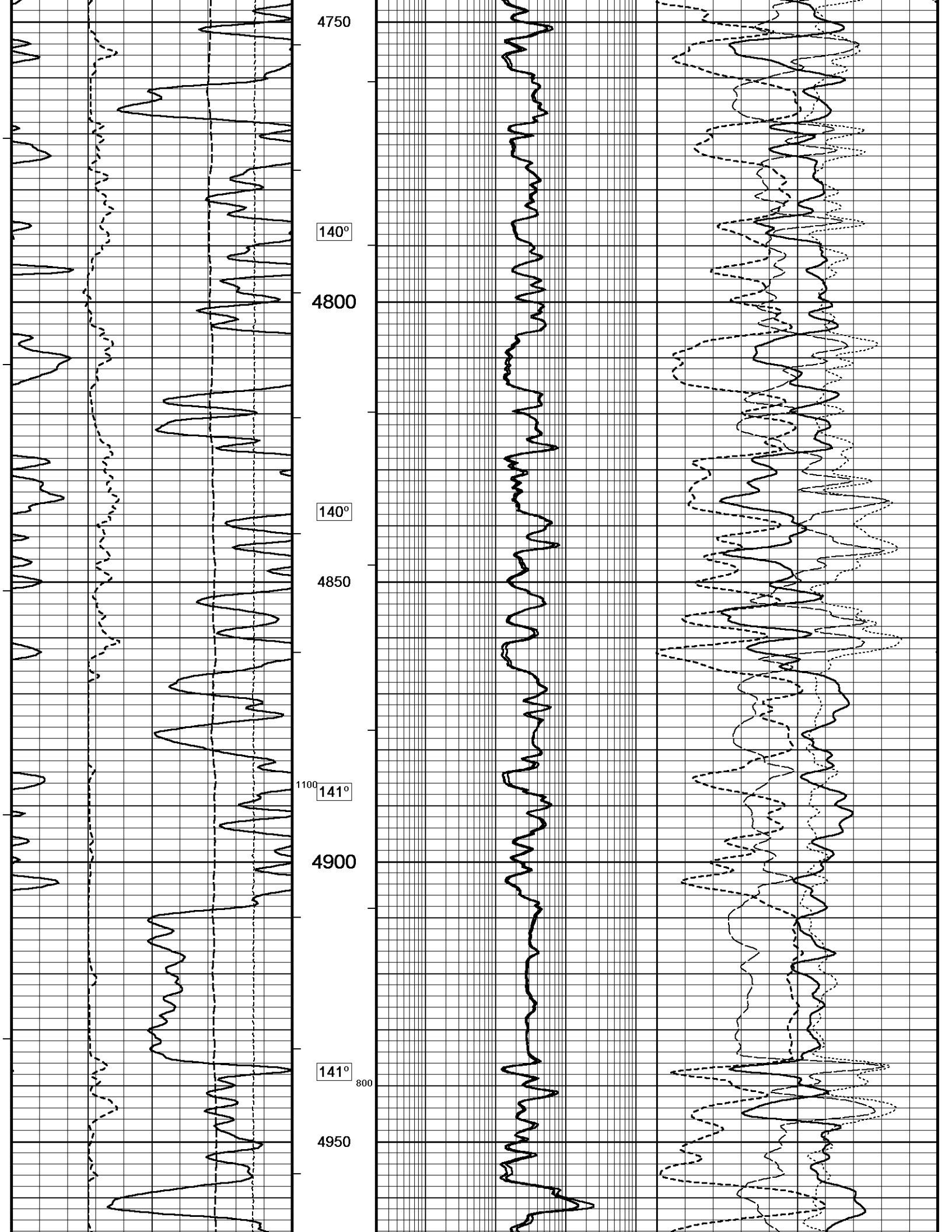


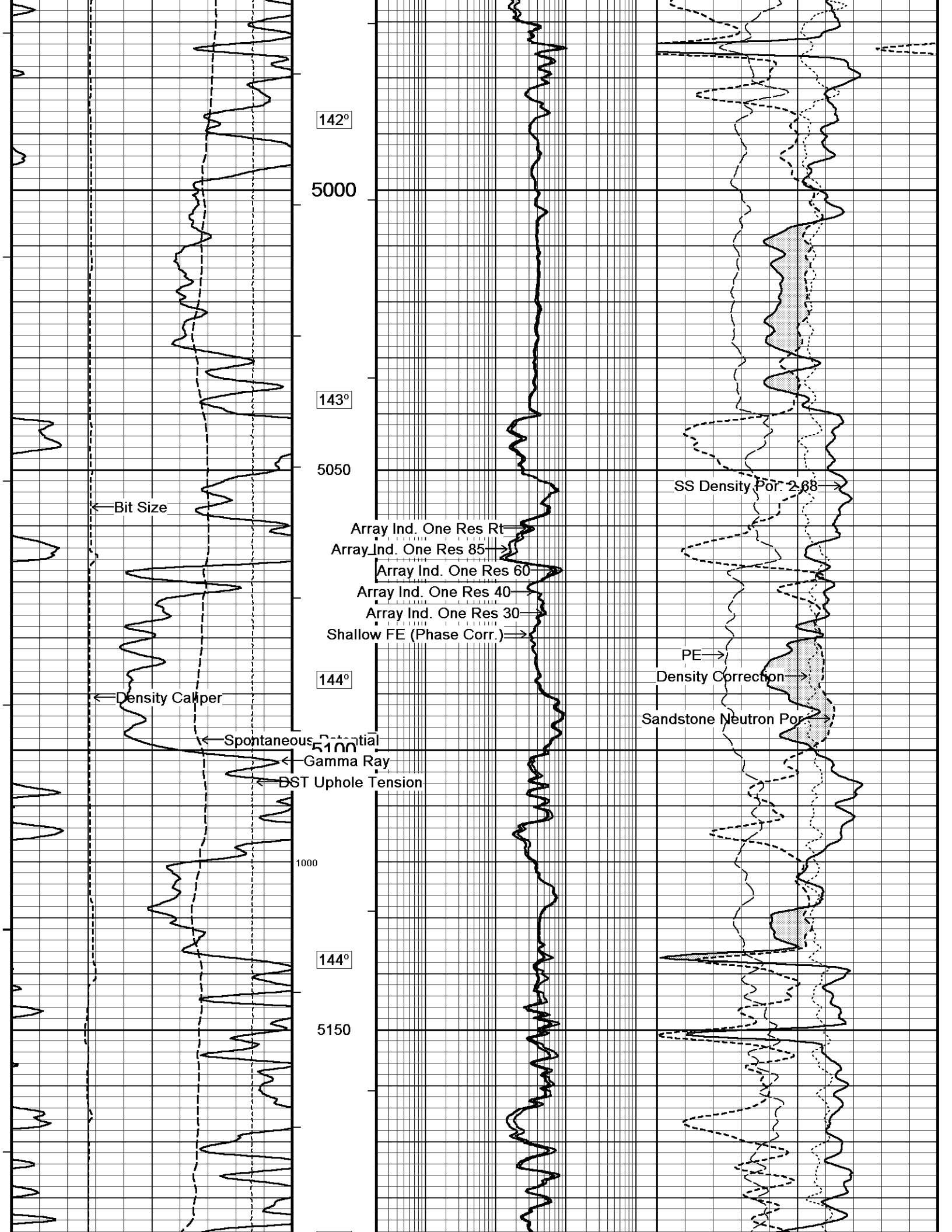


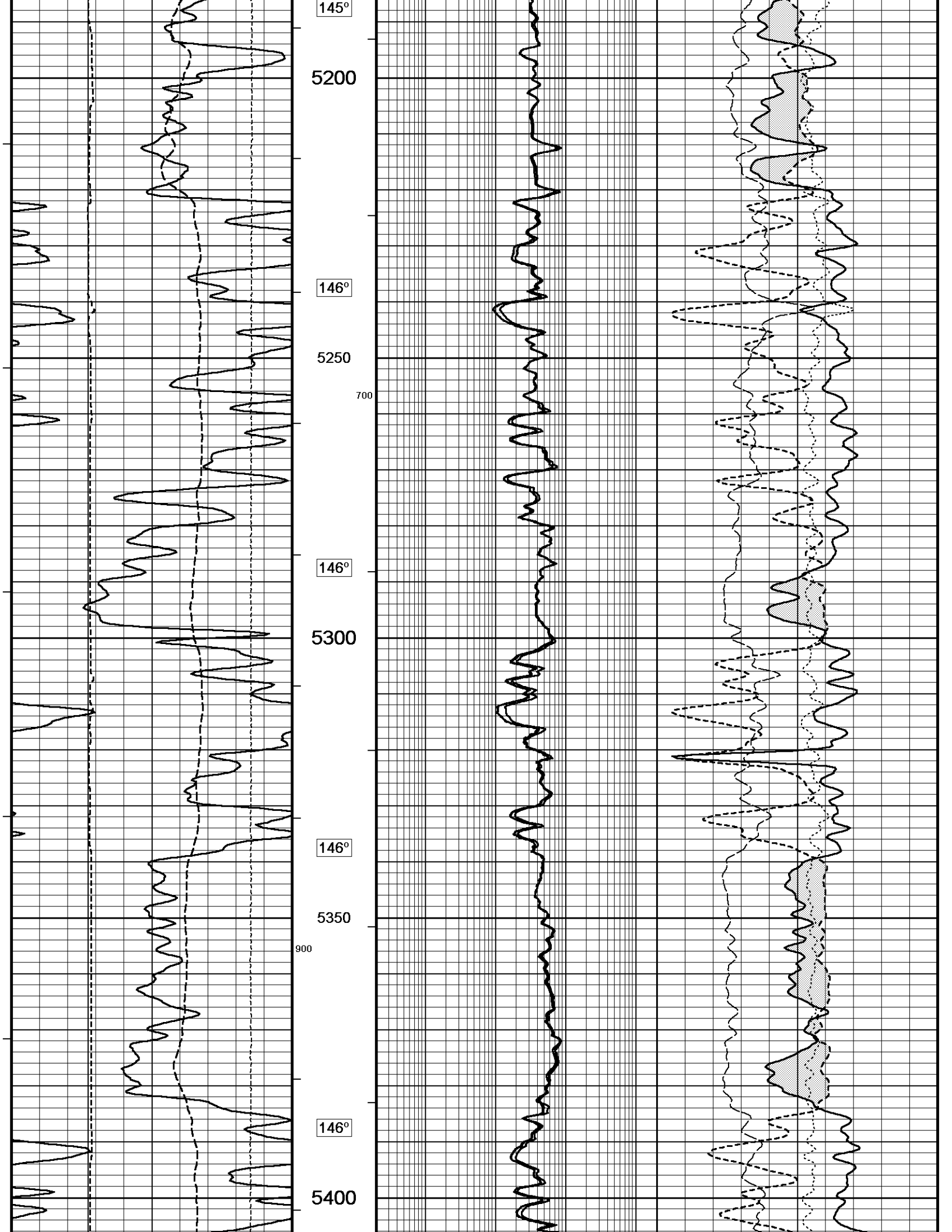


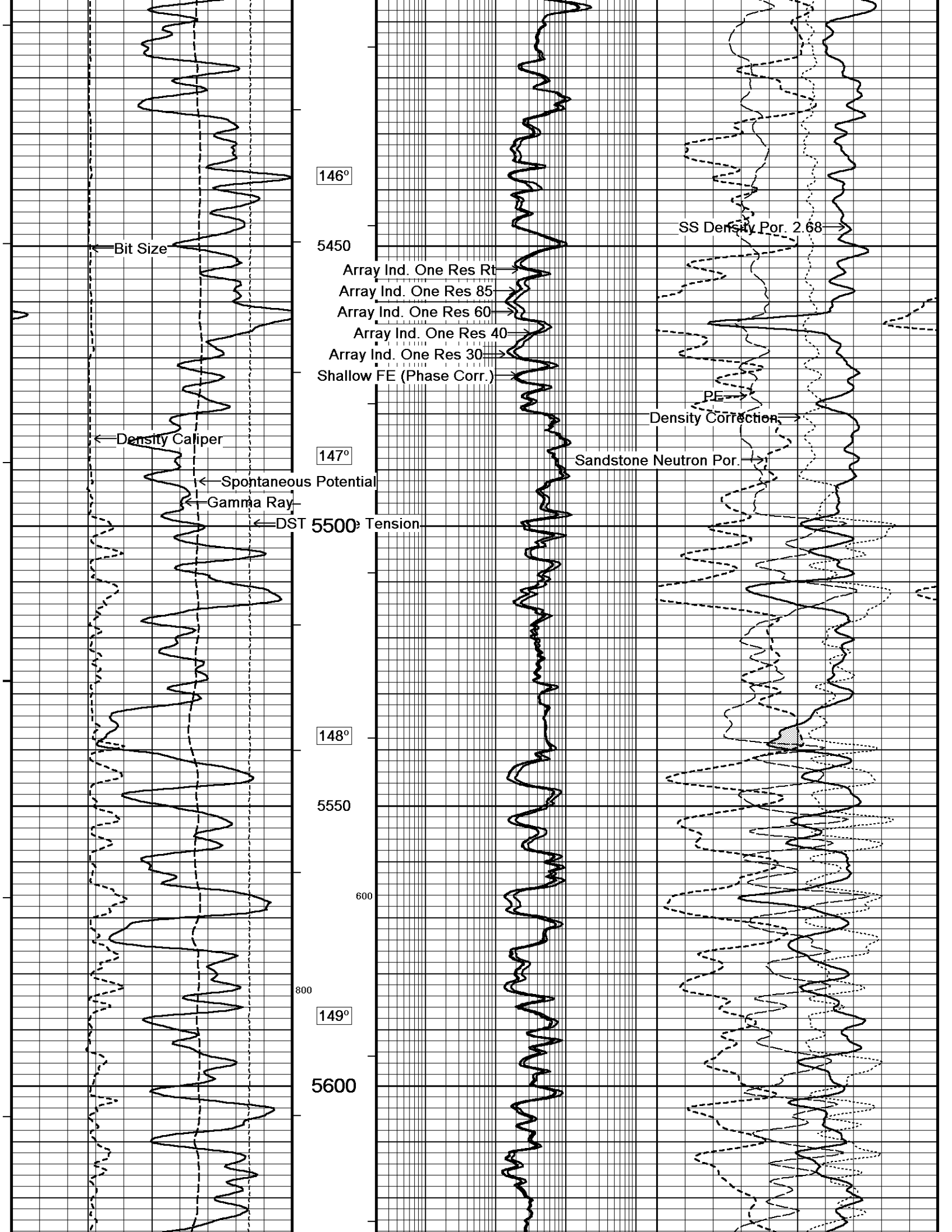


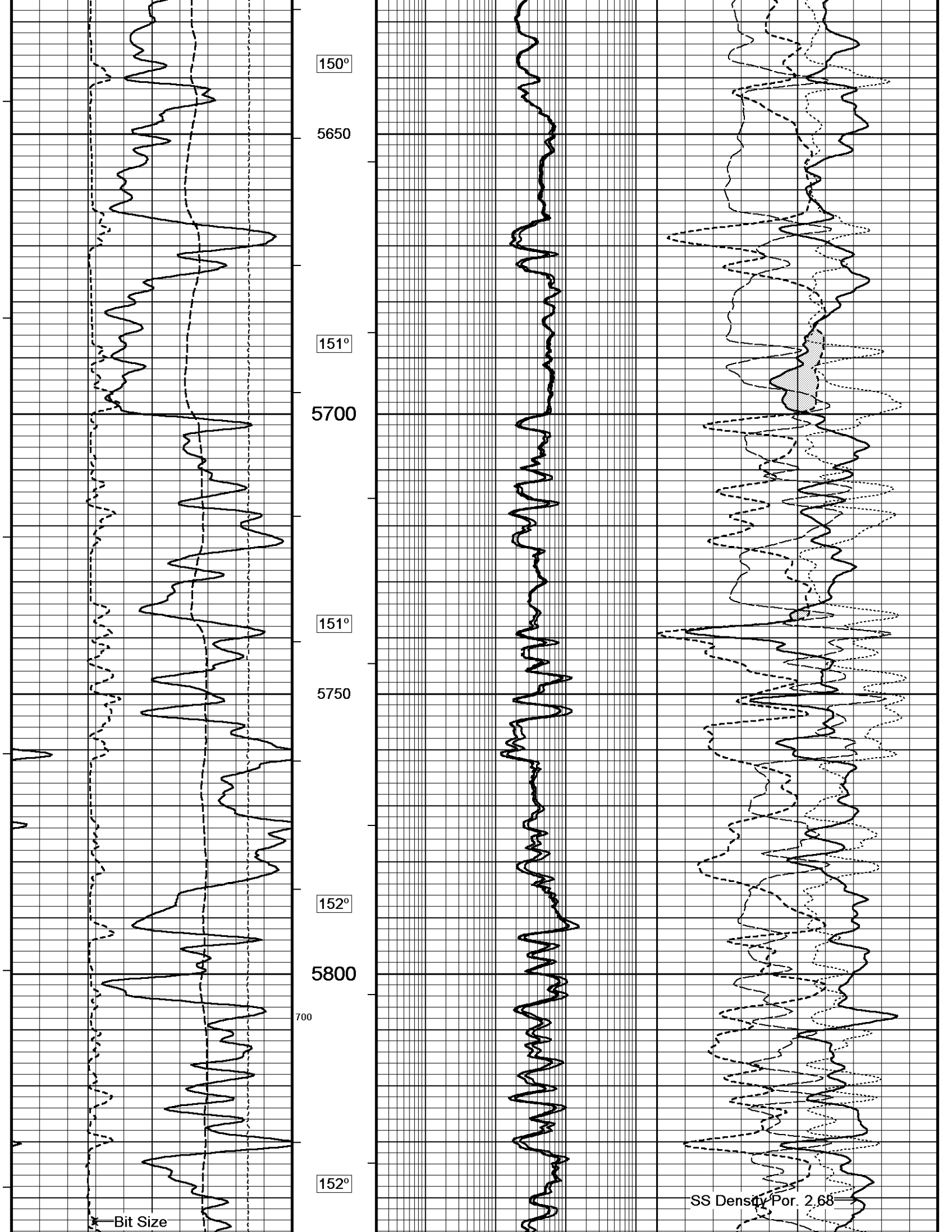


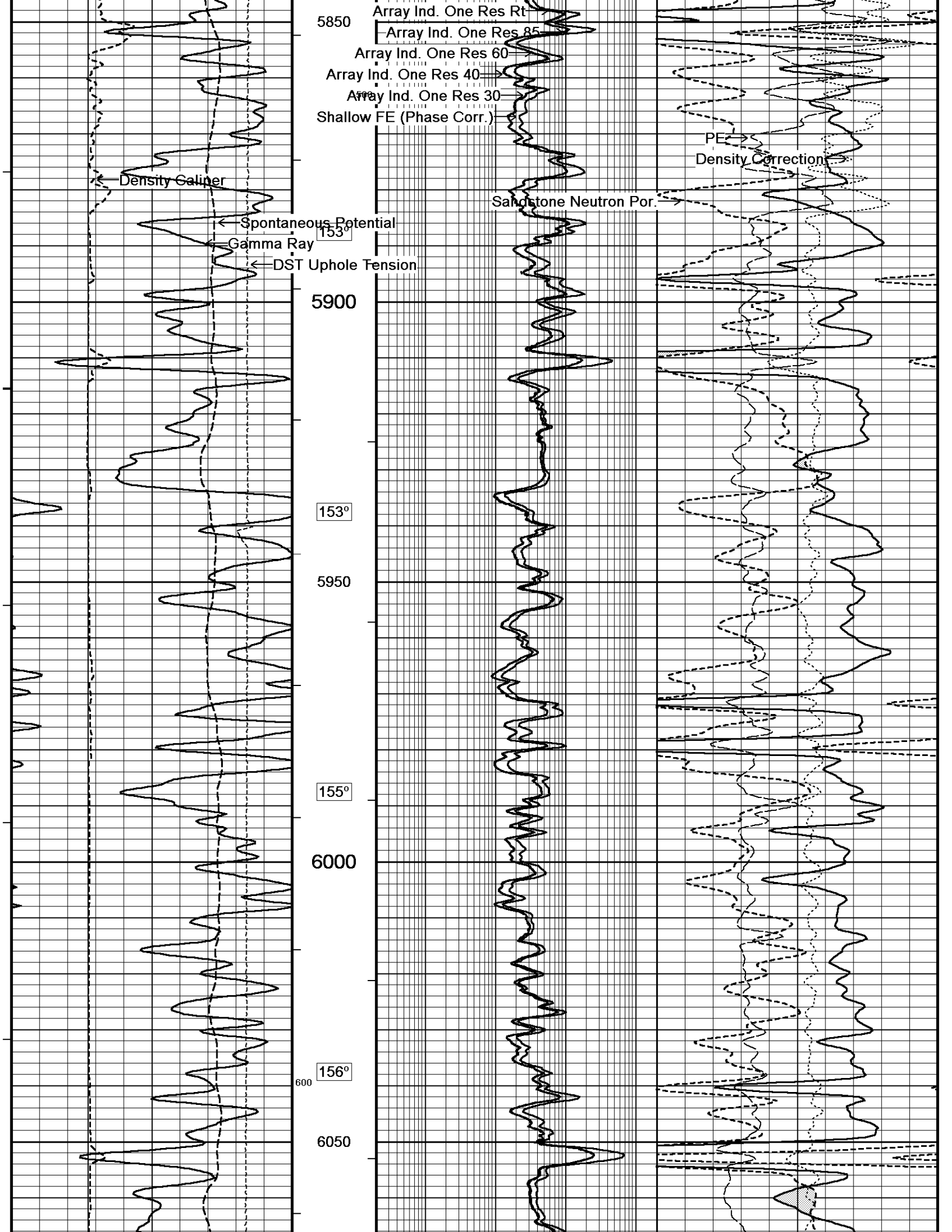


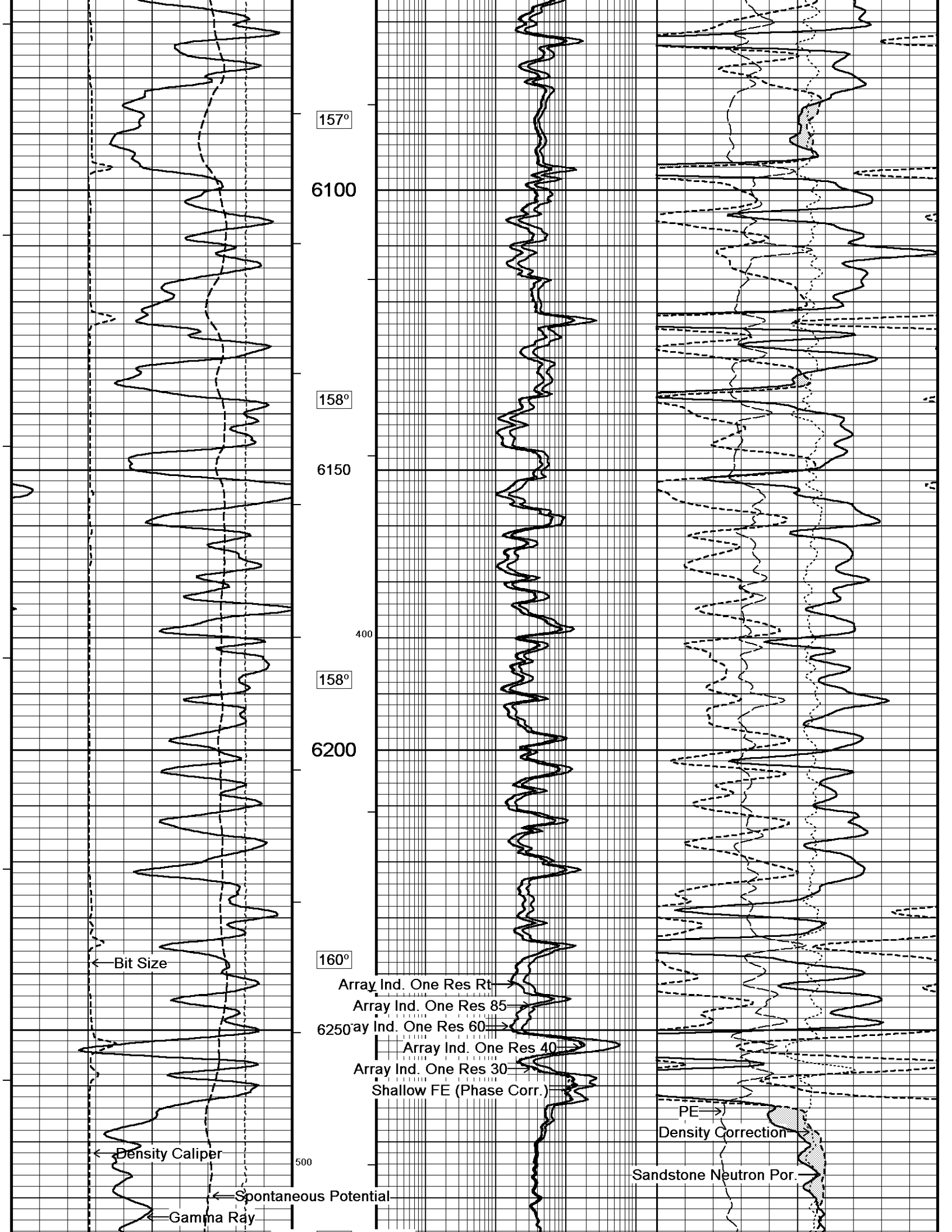












← DST Up 300 Tension

6300

162°

6350

162°

6400

163°

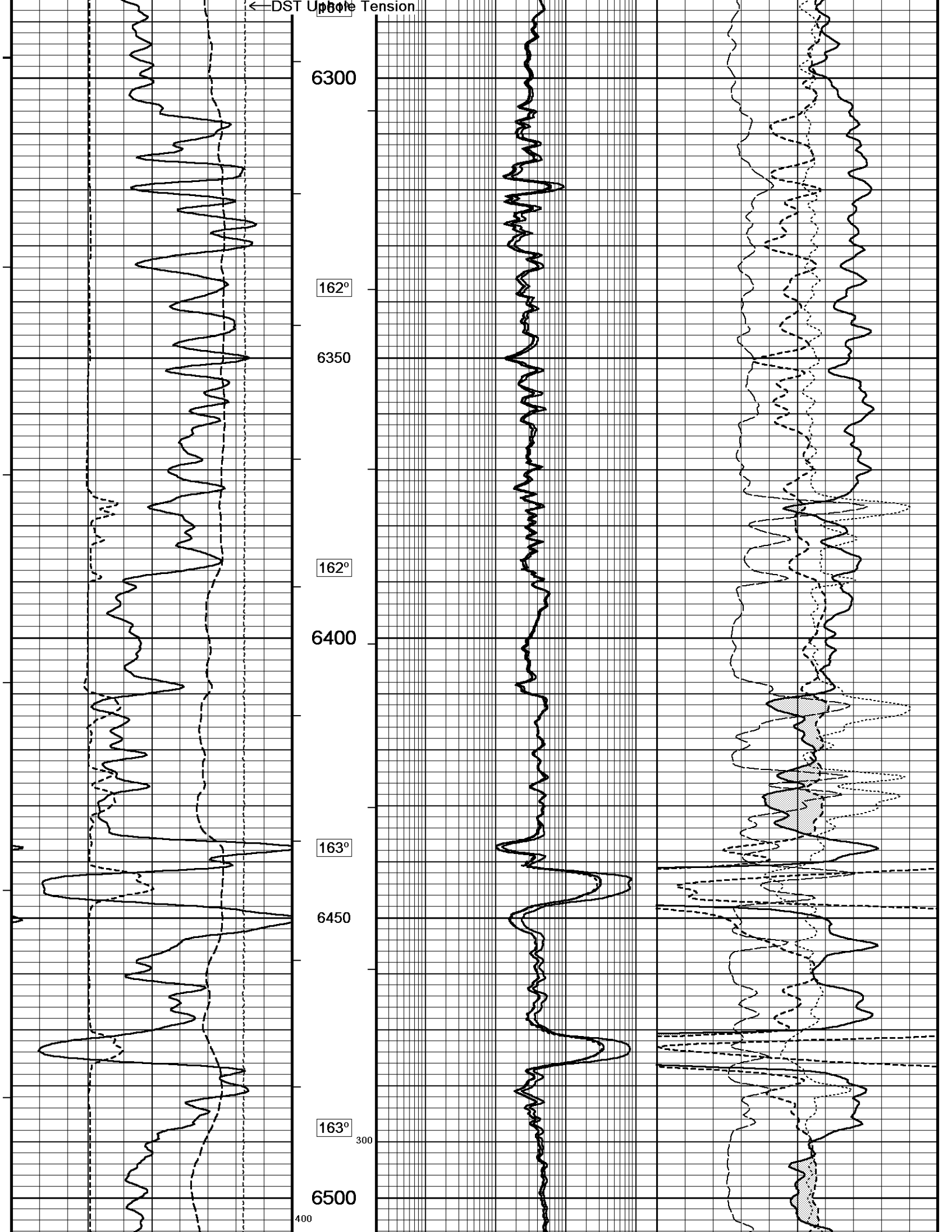
6450

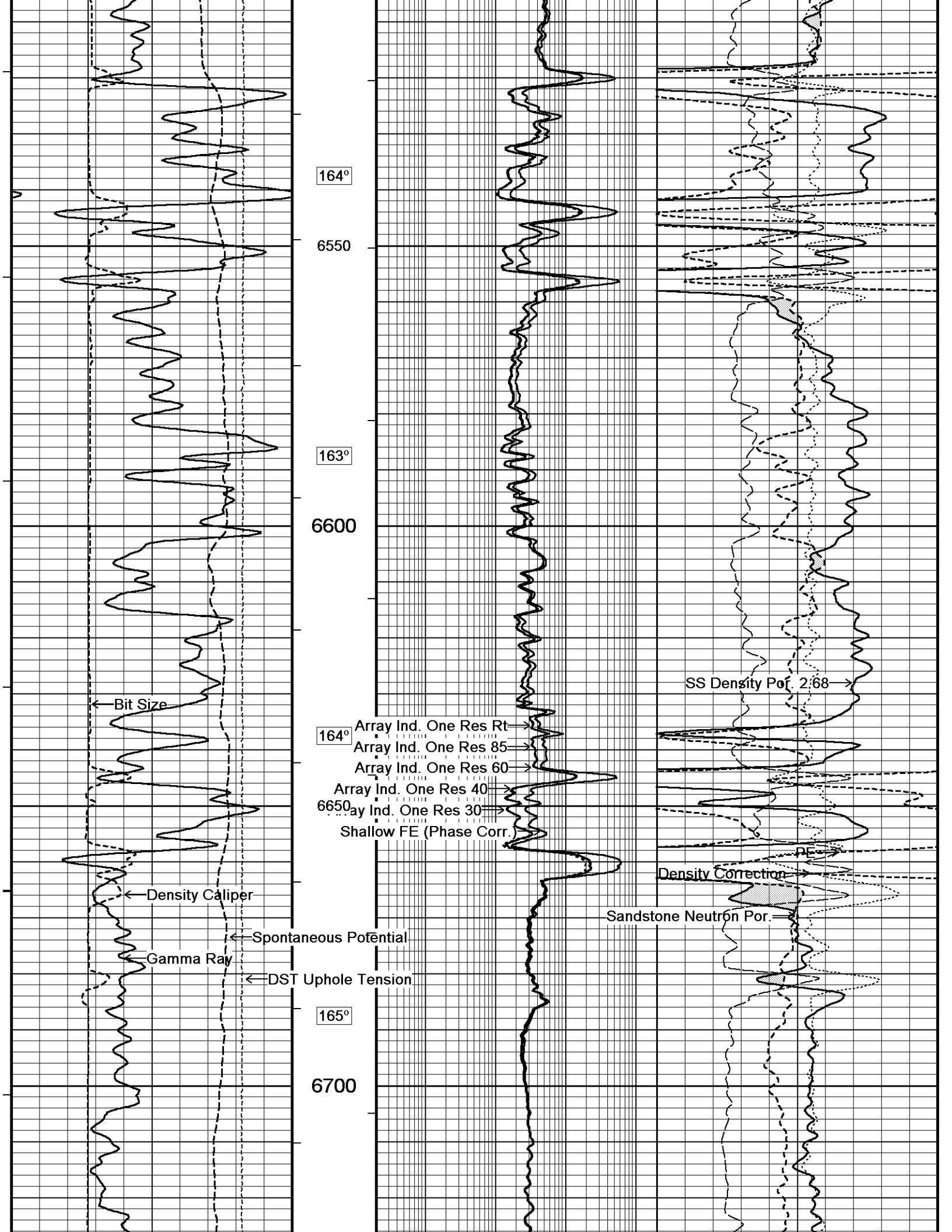
163°

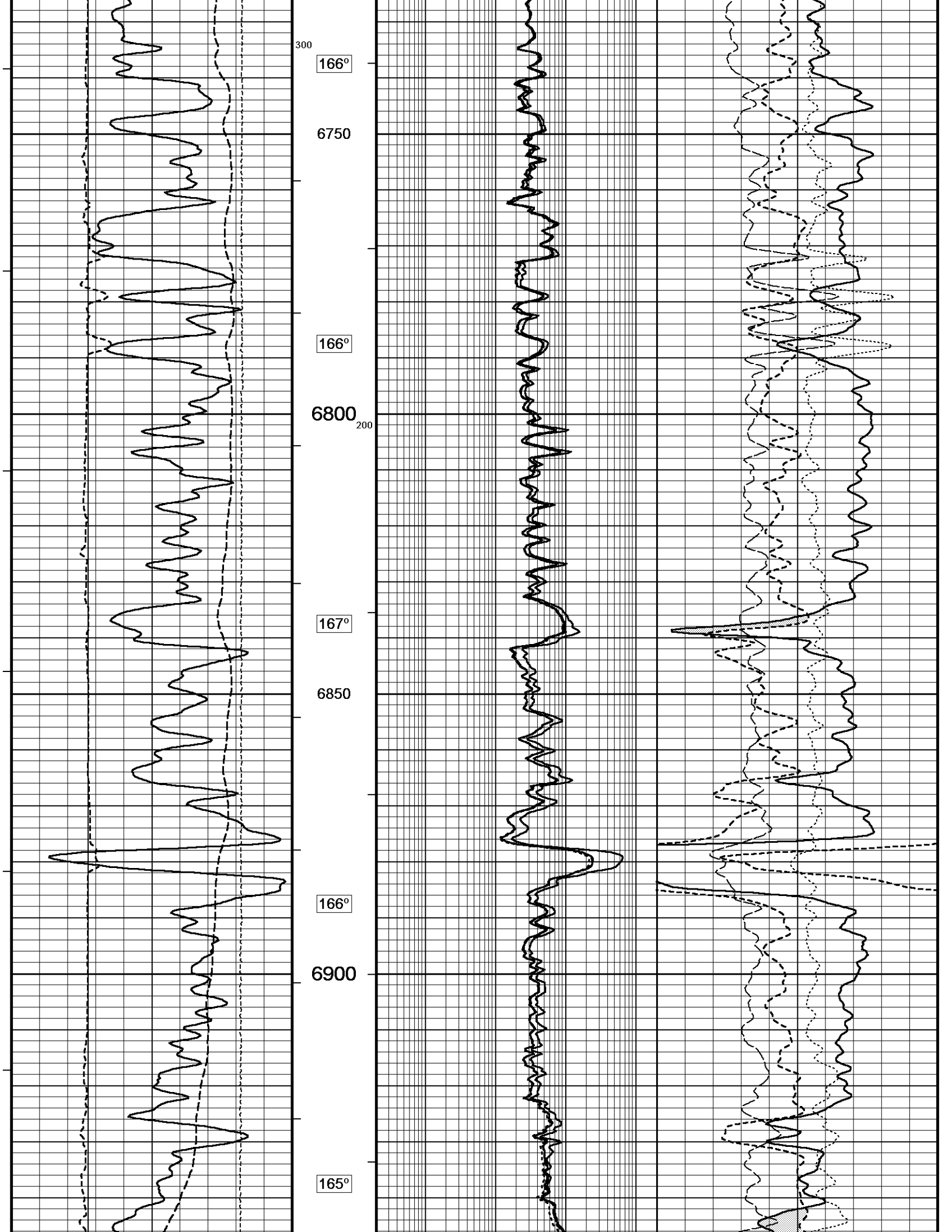
6500

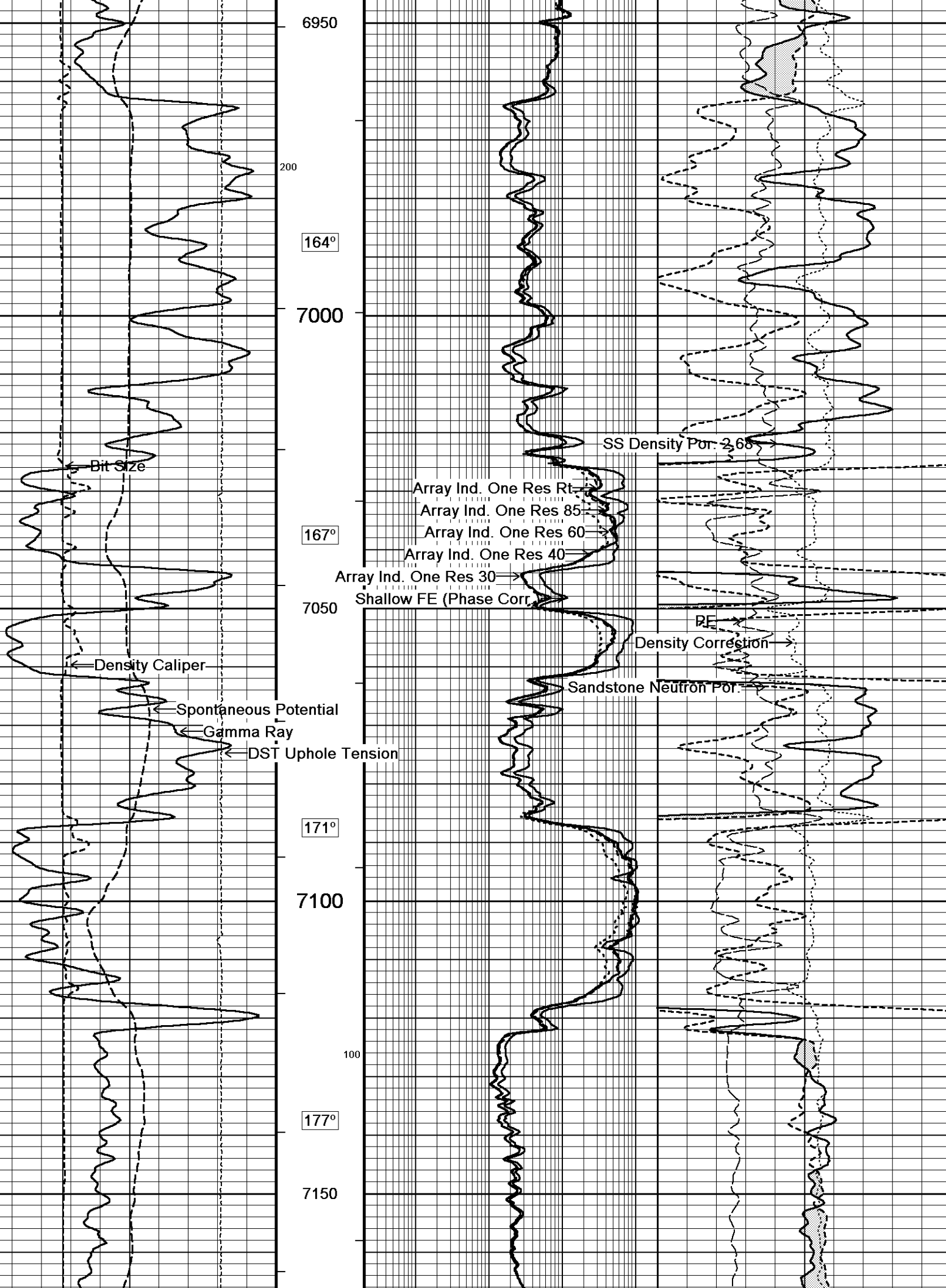
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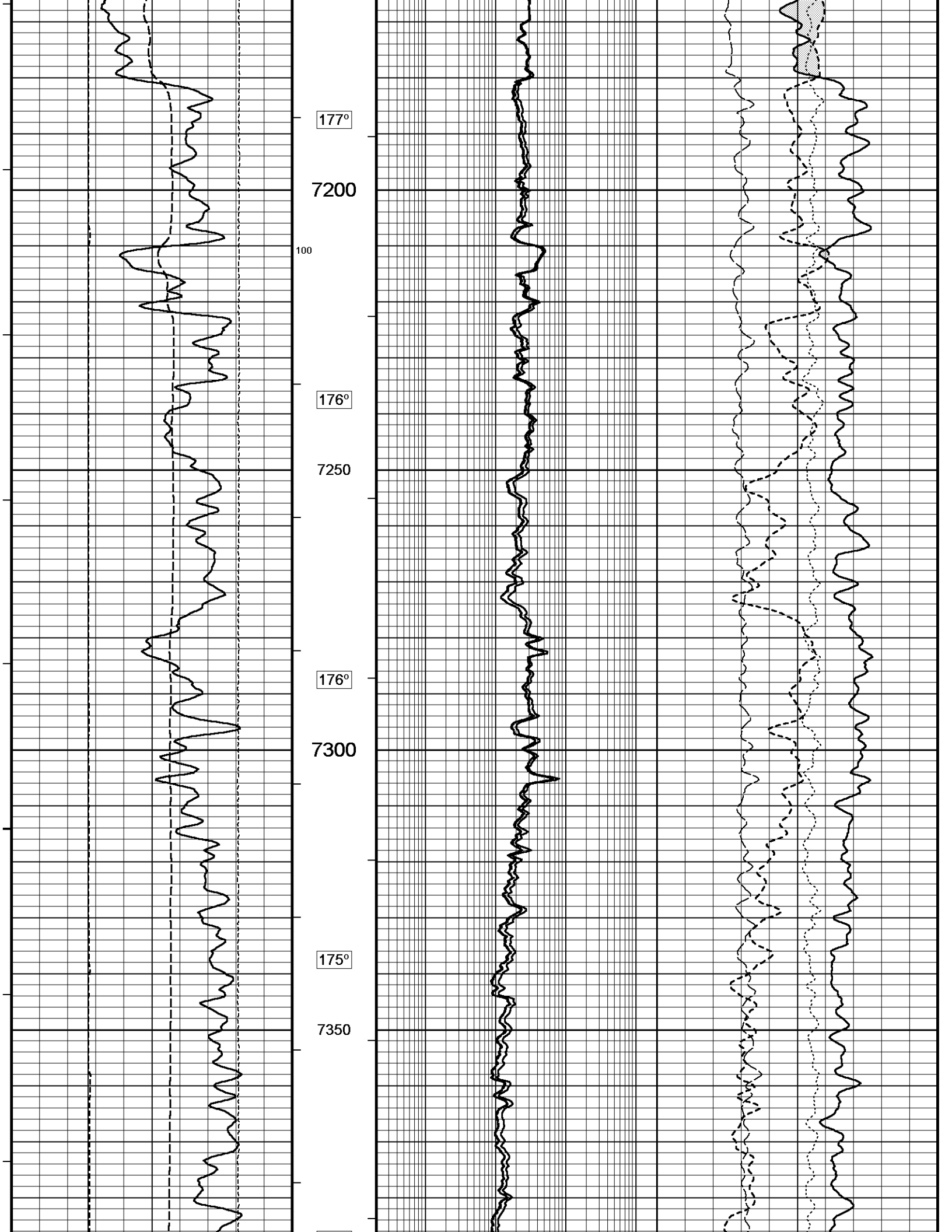
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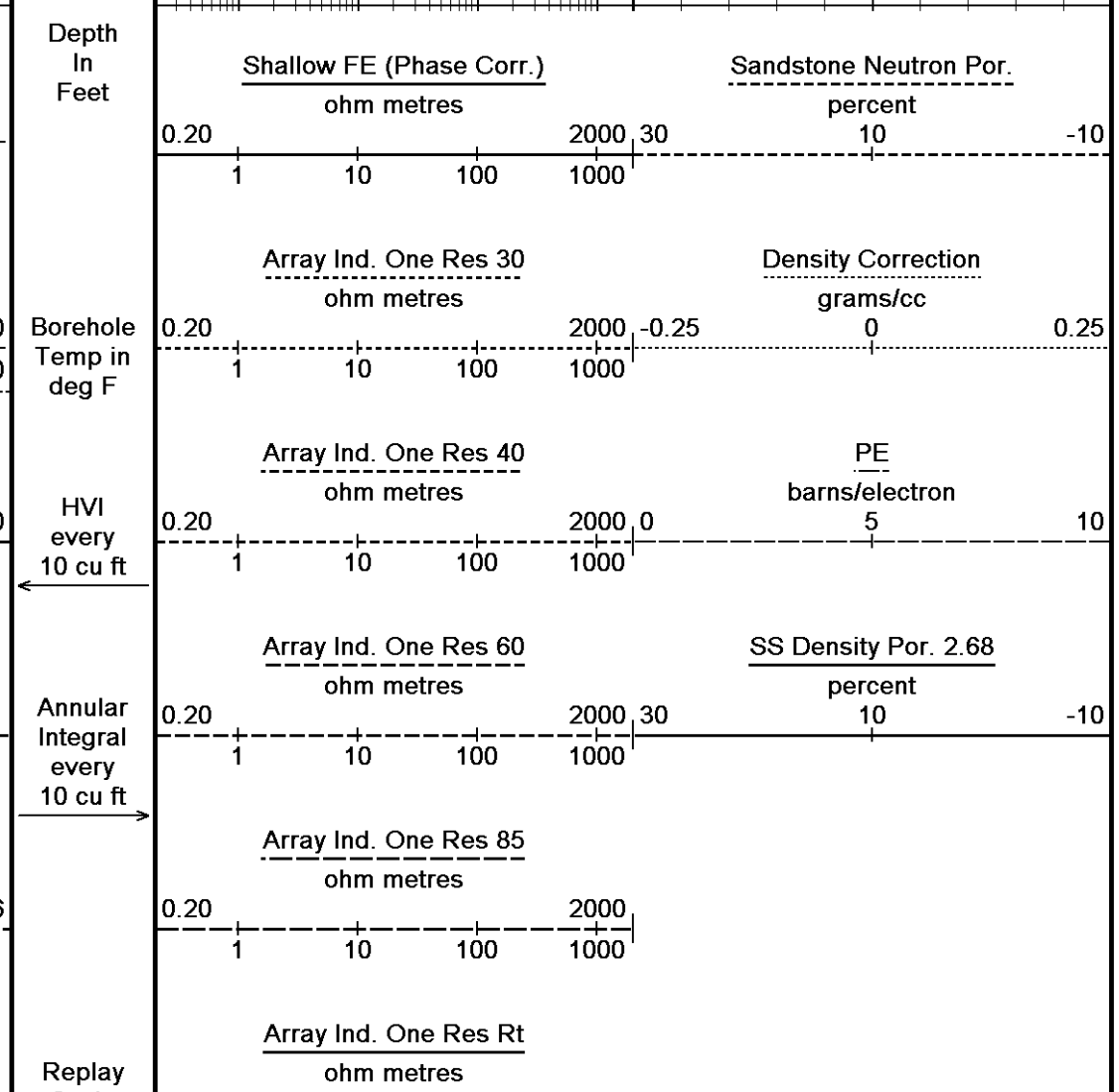
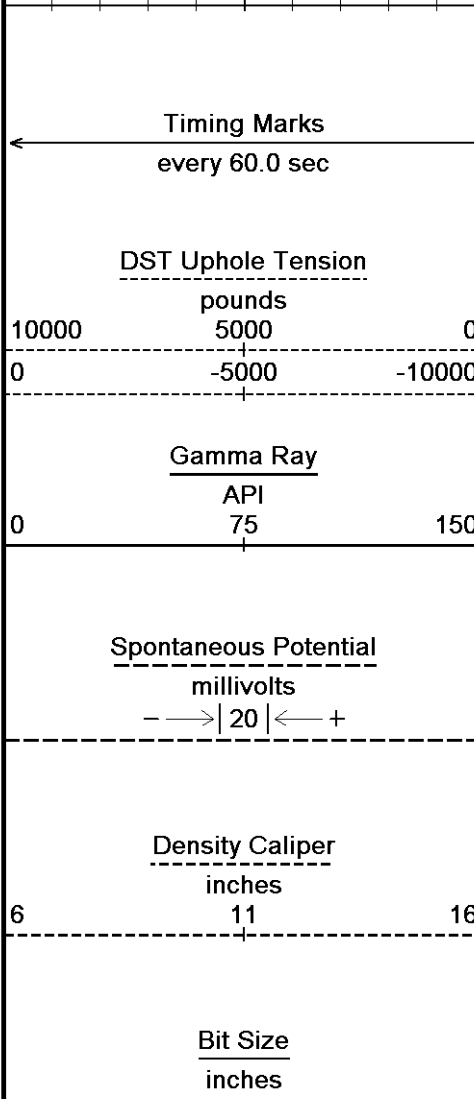
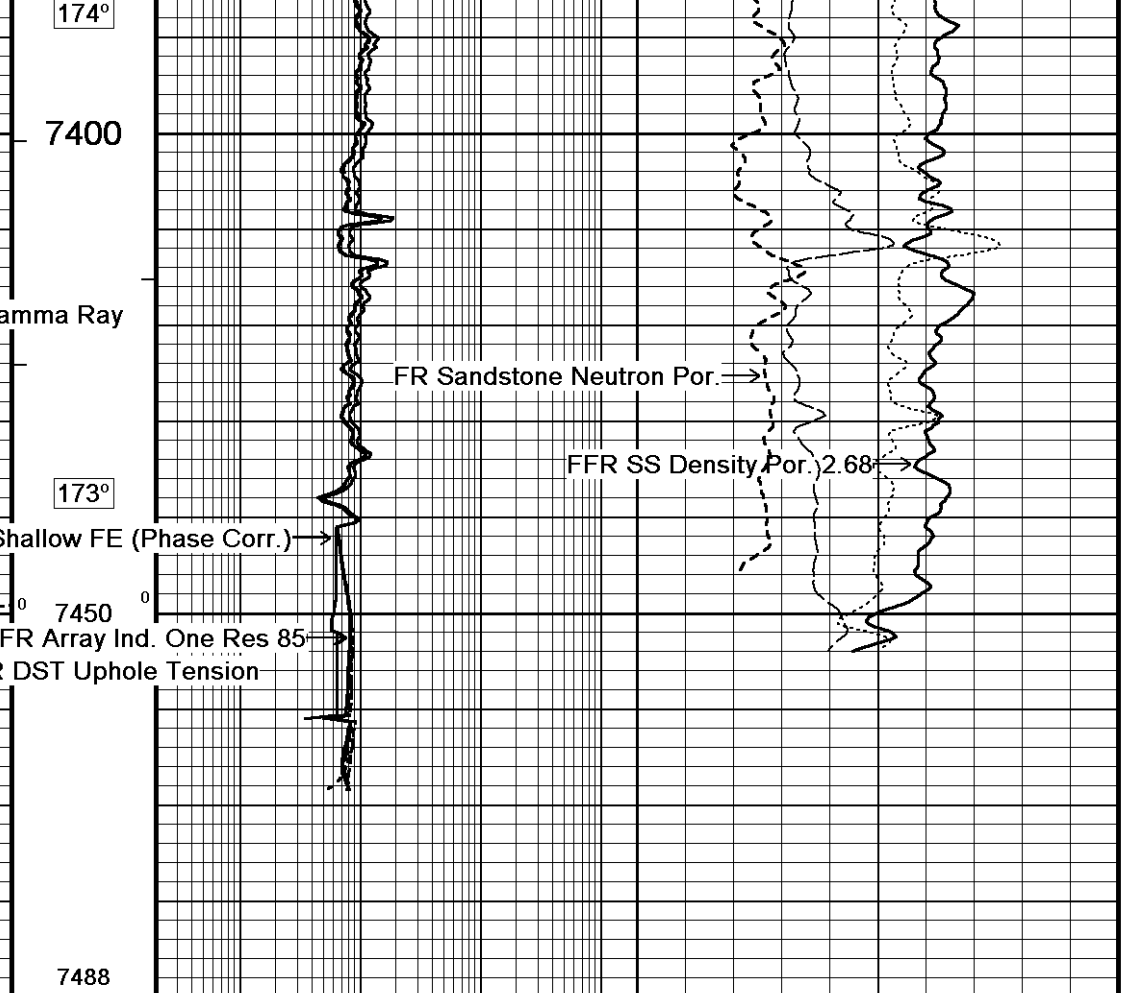
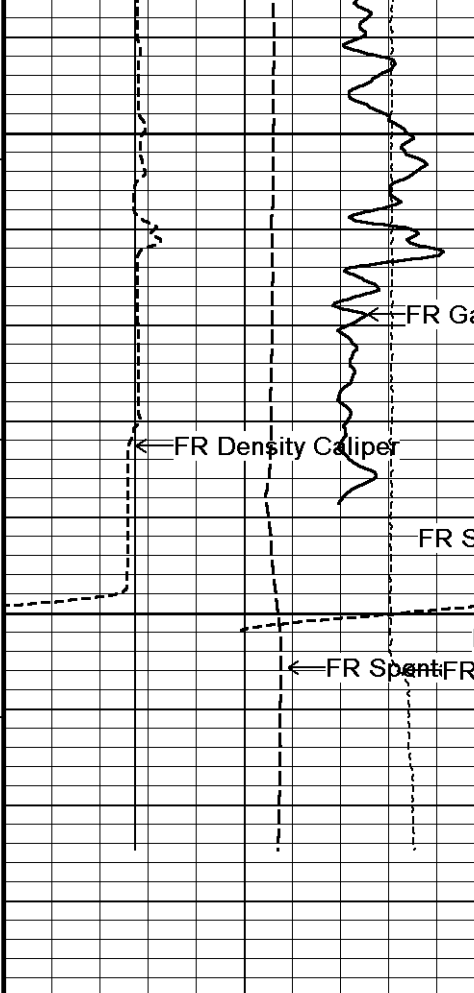












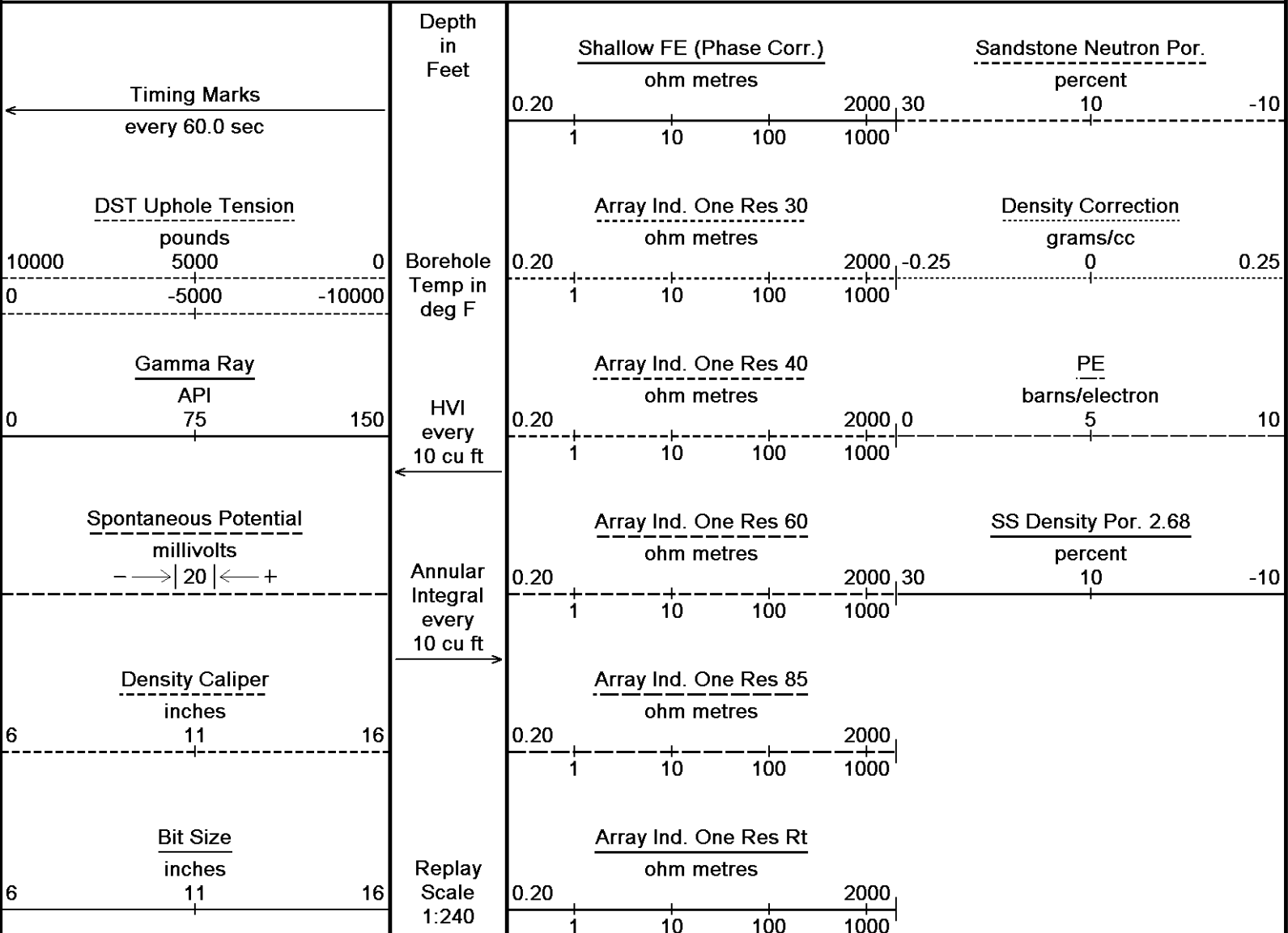
1:240 1 10 100 1000

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-FEB-2011 03:20
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta Recorded on 22-FEB-2011 23:21
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

↑ 5 INCH MAIN LOG ↑

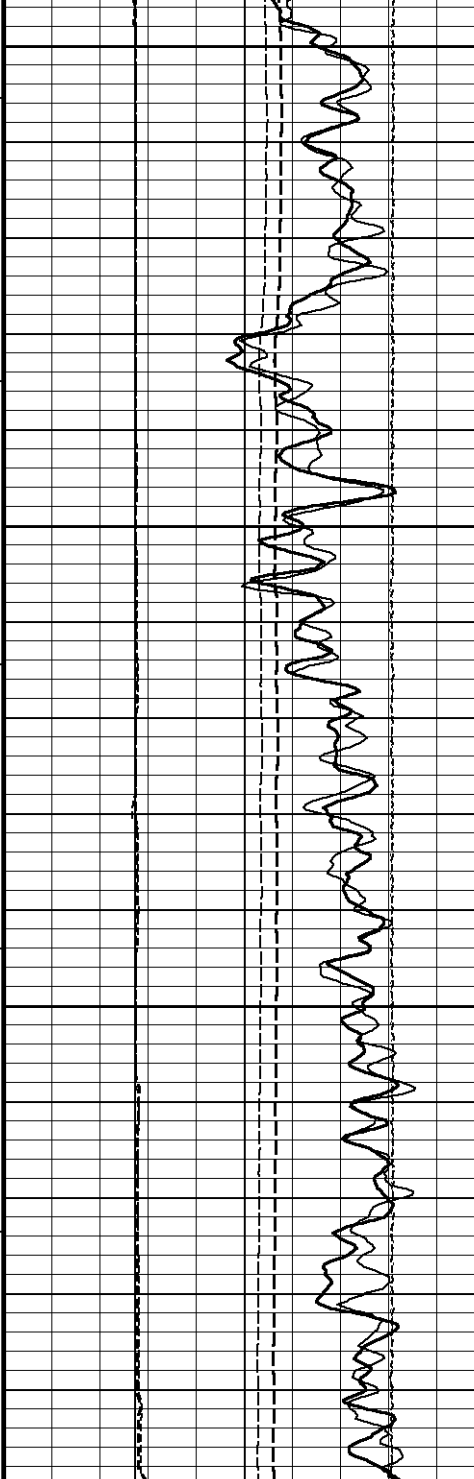
↓ OVERLAY ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-FEB-2011 03:20
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta Recorded on 22-FEB-2011 23:21
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\RPT2.dta
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198



7200

176°



7250

176°

7300

175°

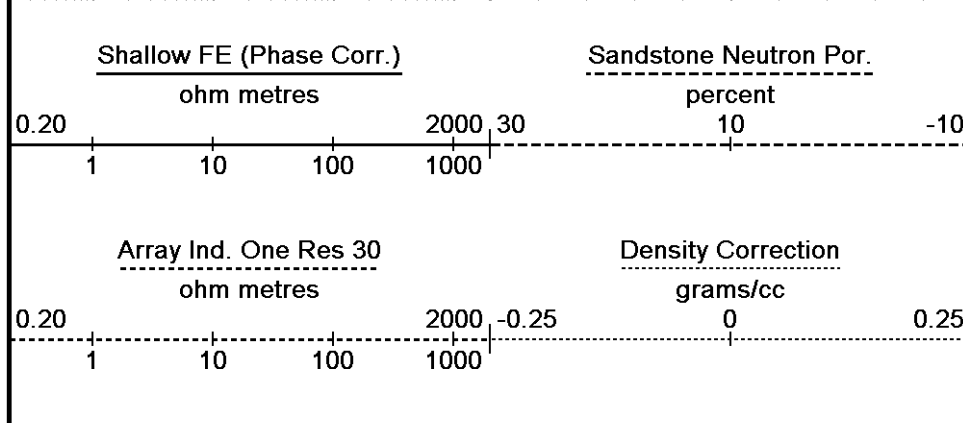
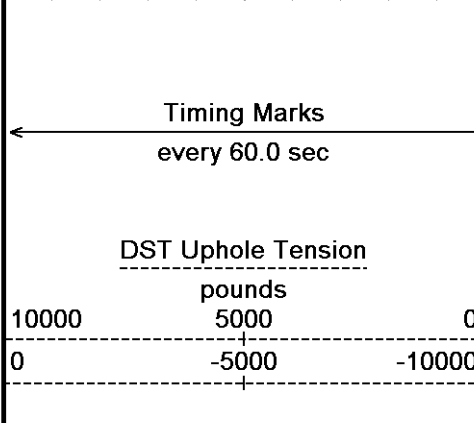
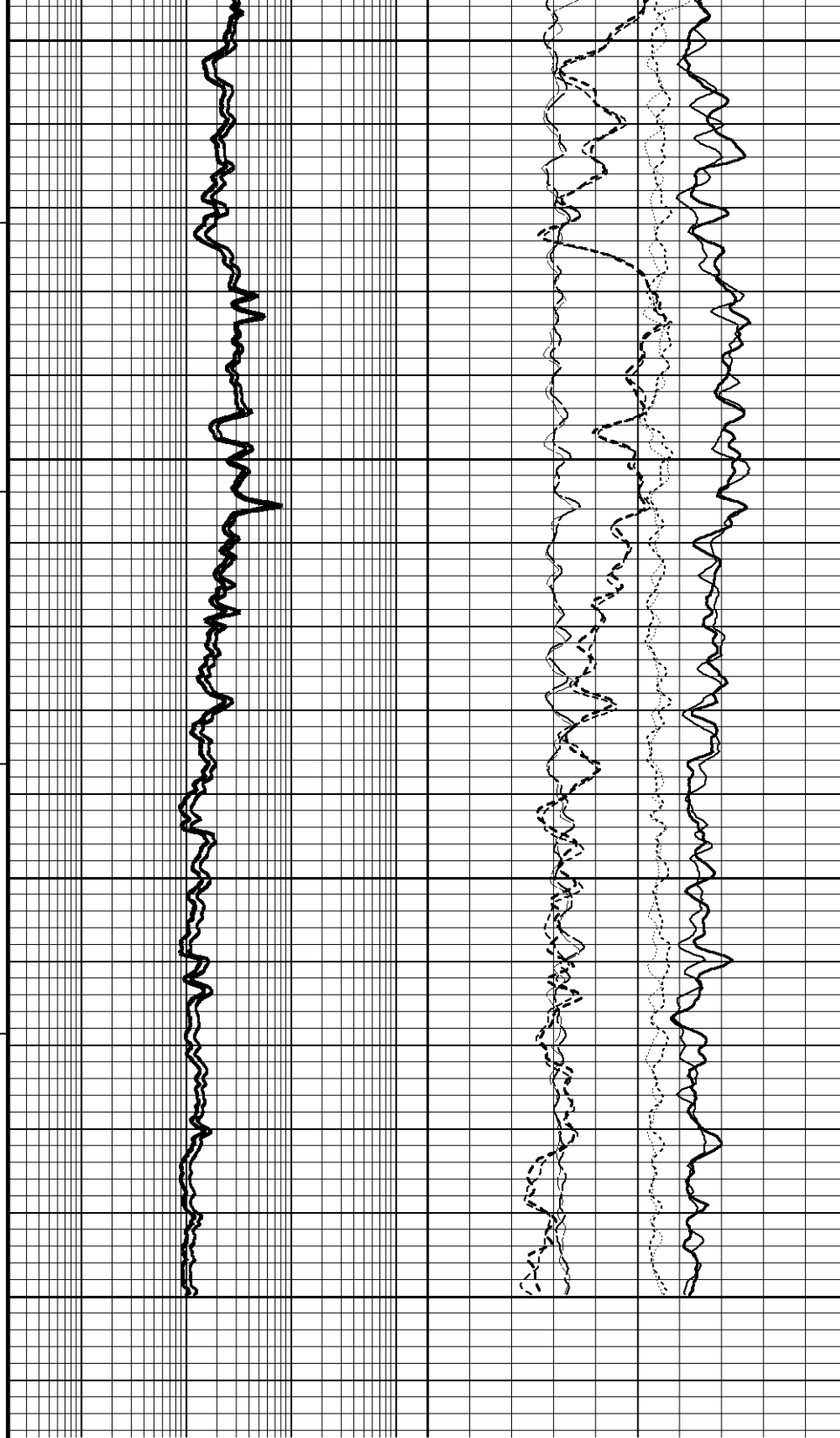
7350

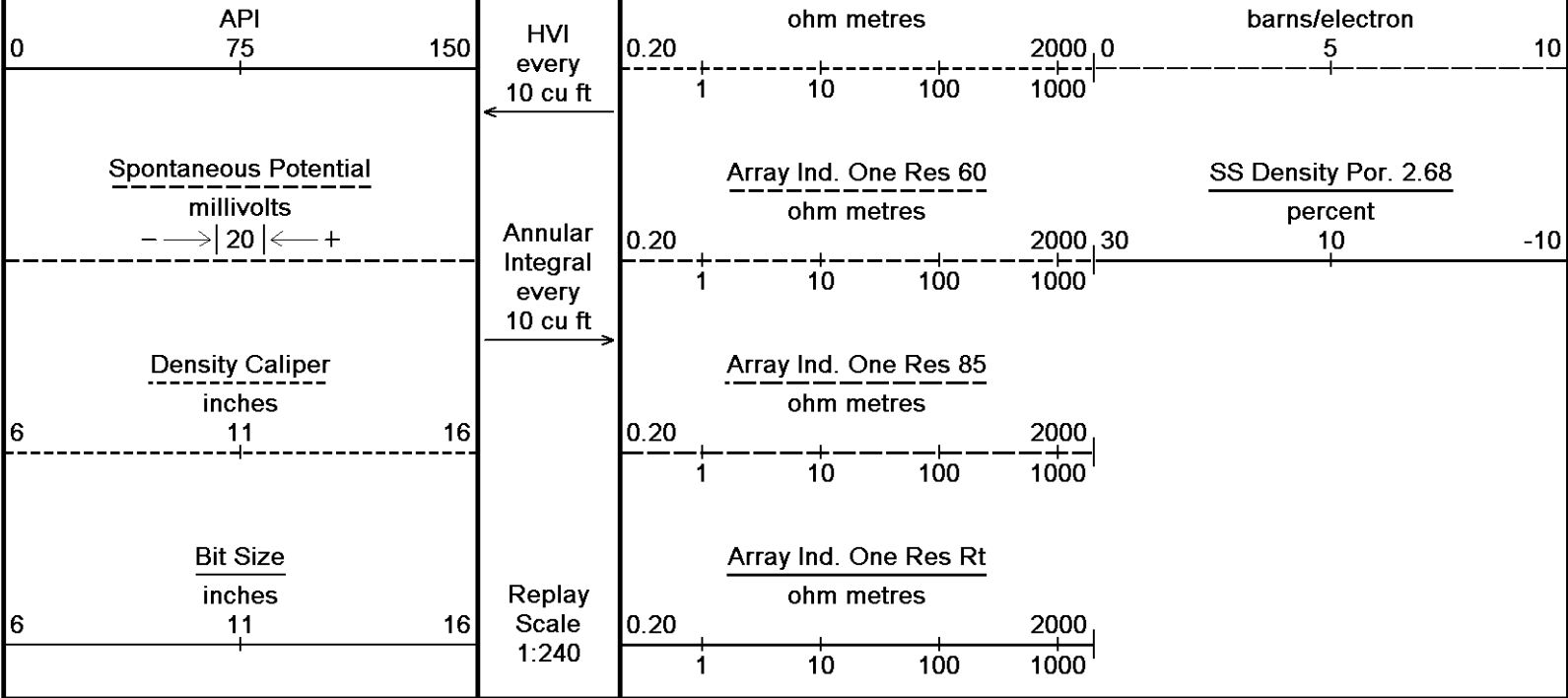
174°

7400

7414

Depth in Feet





Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 23-FEB-2011 03:20
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta
 Recorded on 22-FEB-2011 23:21
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\RPT2.dta
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

↑ OVERLAY ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta

General Constants All 000		Last Edited on 22-FEB-2011,20:53
General Parameters		
Mud Resistivity	4.000	ohm-metres
Mud Resistivity Temperature	80.000	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	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 22-FEB-2011 21:40
Reading No	Measured	Calibrated (lbs)
1	15753.48	0.00
2	16748.19	382.00

High Resolution Temperature Calibration MCG-C 192		Field Calibration on 18-FEB-2011,09:26
	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 22-FEB-2011,20:05

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

Gamma Calibration MCG-C 192

Field Calibration on 22-FEB-2011 20:05

	Measured	Calibrated (API)
Background	97	71
Calibrator (Gross)	1341	983
Calibrator (Net)	1244	912

Gamma Constants MCG-C 192

Last Edited on 12-FEB-2011,12:54

Gamma Calibrator Number	912	
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 22-FEB-2011,05:29

Field Check on 22-FEB-2011 20:11

Base Calibration					
	Measured		Calibrated (cps)		
	Near	Far	Near	Far	
	3208	98	3714	110	
Ratio	32.812		33.764		
Field Calibrator at Base					
			Calibrated (cps)		
			1323	1983	
Ratio			0.667		
Field Check					
			Calibrated (cps)		
			1278	1966	
Ratio			0.650		

Neutron Constants MDN-A.B 160

Last Edited on 23-FEB-2011,02:58

Neutron Source Id	1056	
Neutron Jig Number	5922	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	7.00	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	None	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 85

Base Calibration on 04-FEB-2011 09:44

Field Check on 22-FEB-2011 20:26

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	10.7	1.3
Reference 2	965.5	126.8
Base Check		281.9
Field Check		282.3

FE Constants MFE-A.A 85

Last Edited on 23-FEB-2011,02:17

Running Mode	No Sleeve
MFE K Factor	0.1268
Caliper Source for FE correction	Density Caliper

Caliper Source for FE correction	Density Caliper	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 213

Field Calibration on 22-DEC-2010,21:10

	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 13-DEC-2010,09:54

Pre-filter Length 11

Induction Calibration MAI-B.A 213

Base Calibration on 22-FEB-2011,05:28

Field Check on 22-FEB-2011 20:34

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	12.1	3932.4	12.1	3931.9
2	29.6	3538.5	29.6	3538.8
3	28.5	3113.0	28.5	3113.5
4	18.9	2095.5	18.9	2095.9
Deep	17.1	2076.8	17.1	2077.3
Medium	42.3	4087.5	42.3	4088.2
Shallow	44.6	5158.2	44.5	5158.4

Array Temperature 42.3 41.7 Deg F

Induction Constants MAI-B.A 213

Last Edited on 23-FEB-2011,02:15

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

0.00
0.00
0.00

0.00
0.00

AFTER SURVEY CALIBRATION

C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta

Gamma Check MCG-C 192

Field Calibration on 22-FEB-2011 20:05
After Survey Check on 23-FEB-2011 02:57

	Before (API)	After (API)
Background	71	79
Calibrator (Gross)	983	991
Calibrator (Net)	912	912

Neutron Check MDN-A.B 160

Before Survey Check on 22-FEB-2011 20:11
After Survey Check on 23-FEB-2011 03:05

Near (cps)		Far (cps)		Ratio
Before	After	Before	After	
1278	1295	1966	1951	
	Before	After		
	0.650	0.664		

FE Check MFE-A.A 85

Before Survey Check 22-FEB-2011 20:26
After Survey Check on 23-FEB-2011 02:18

Before (ohm-m)	After (ohm-m)
282.3	281.7

Induction Check MAI-B.A 213

Before Survey Check on 22-FEB-2011 20:34
After Survey Check on 23-FEB-2011 02:17

Channel	Before Survey (mmho/m)		After Survey (mmho/m)		
	Low	High	Low	High	
1	12.1	3931.9	14.7	3937.6	
2	29.6	3538.8	30.4	3540.2	
3	28.5	3113.5	29.0	3113.9	
4	18.9	2095.9	19.1	2096.6	
Deep	17.1	2077.3	17.5	2078.0	
Medium	42.3	4088.2	42.6	4087.6	
Shallow	44.5	5158.4	45.7	5160.1	
Array Temperature		41.7		79.0	Deg F

Photo Density Check MPD-B 167

Before Survey Check on 22-FEB-2011 20:20
After Survey Check on 23-FEB-2011 02:23

Density Check

	Near		Far	
	Before	After	Before	After
	1171.4	1173.5	1737.9	1746.3

PE Check

	Before	After
WS	215.4	213.6
WH	1051.2	1046.6

DOWNHOLE EQUIPMENT

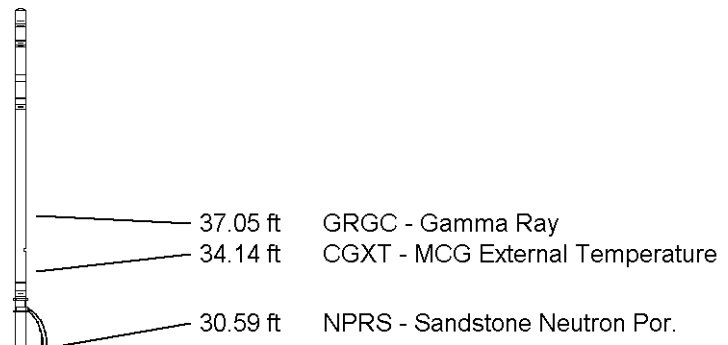
C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta

3/8" Triple Cone Cable Head (MCB F B)
MCB-F.B 9 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

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

Compact Comms Gamma
MCG-C 192 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Neutron



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

Compact Density/Caliper

MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-E.A Compact Knuckle Joint

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

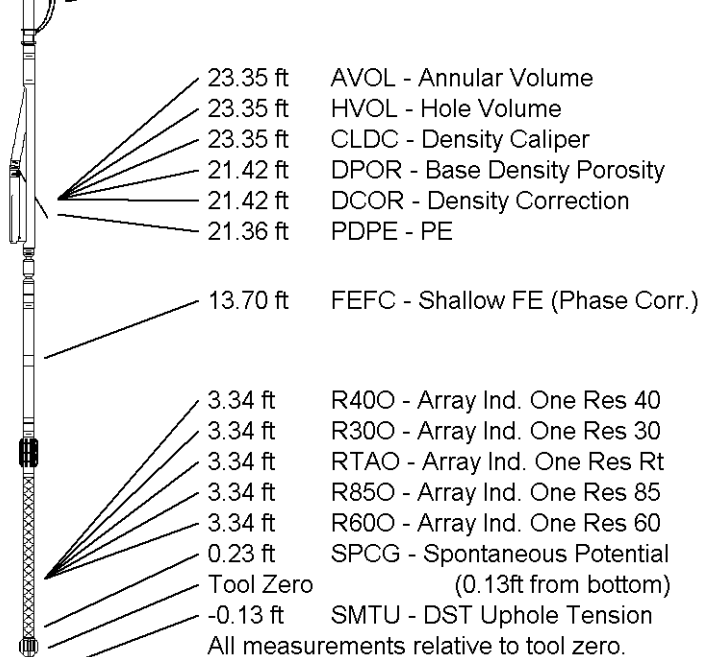
Compact Focussed Electric

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

Compact Induction

MAI-B.A 213 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 SWANSON 32D-29-691
 FIELD GIBSON GULCH
 PROVINCE/COUNTY GARFIELD
 COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet	First Reading	7456.00	
Elevation Drill Floor	6126.00	feet	Depth Driller	7467.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7456.00	feet



COMPACT TRIPLE COMBO
 QUICKLOOK
 LOG

