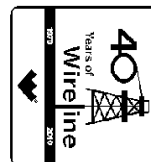




Weatherford

**COMPACT TRIPLE COMBO
QUICKLOOK
LOG**

COMPANY **BILL BARRETT CORPORATION**
WELL **GGU DALEY 24D-19-691**
FIELD **GIBSON GULCH**
PROVINCE/COUNTY **GARFIELD**
COUNTRY/STATE **U.S.A. / COLORADO**
LOCATION **SHL: 332' FSL & 2016' FWL**
BHL: 1165' FSL & 1980' FWL



SEC **19** TWP **6S** RGE **91W** Other Services
API Number **05-045-19576**
Permit Number

Permanent Datum G.L., Elevation 5824 feet
Log Measured From K.B. @ 23 FEET above Permanent Datum
Drilling Measured From K.B.

Elevations: feet
KB 5847.00
DF 5846.00
GL 5824.00

Date	14-JUN-2011	
Run Number	ONE	
Depth Driller	7420.00	feet
Depth Logger	7417.00	feet
First Reading	7414.00	
Last Reading	802.00	feet
Casing Driller	802.00	feet
Casing Logger	802.00	feet
Bit Size	7.875	inches
Hole Fluid Type	LSND	
Density / Viscosity	10.70 lb/USg	58.00 CP
PH / Fluid Loss	9.30	4.00 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	3.37 @ 67.0	ohm-m
Rmf @ Measured Temp	2.69 @ 67.0	ohm-m
Rmc @ Measured Temp	4.04 @ 67.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	1.247 @ 186.0	ohm-m
Time Since Circulation	5 HOURS	
Max Recorded Temp	186.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13037	R SPGS
Recorded By	K. SALLER	
Witnessed By	C. CROW	

BOREHOLE RECORD

Last Edited: 15-JUN-2011 02:27

Bit Size inches	Depth From feet	Depth To feet
8.750	802.00	5492.00
7.875	5492.00	7417.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	802.00	36.00

REMARKS

WLS SOFTWARE VERSION 11.02.3186

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

HARDWARE: MPD: 8 INCH PROFILE PLATE USED.
TWO 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

2.08 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.

PULLED TIGHT AT 6950FT, ASKED BY CLIENT NOT TO RETURN BELOW THAT DEPTH FOR A SUBSEQUENT REPEAT PASS

SPLICES PERFORMED AT 6840FT, 6610FT, 5790FT

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 9.01" (9 5/8", 36 LB/FT CASING)

MAXIMUM WELL DEVIATION 20 DEG

8.75 INCH BIT USED FROM SURFACE CASING TO 5492 FEET.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING =2190 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1645 CU.FT.

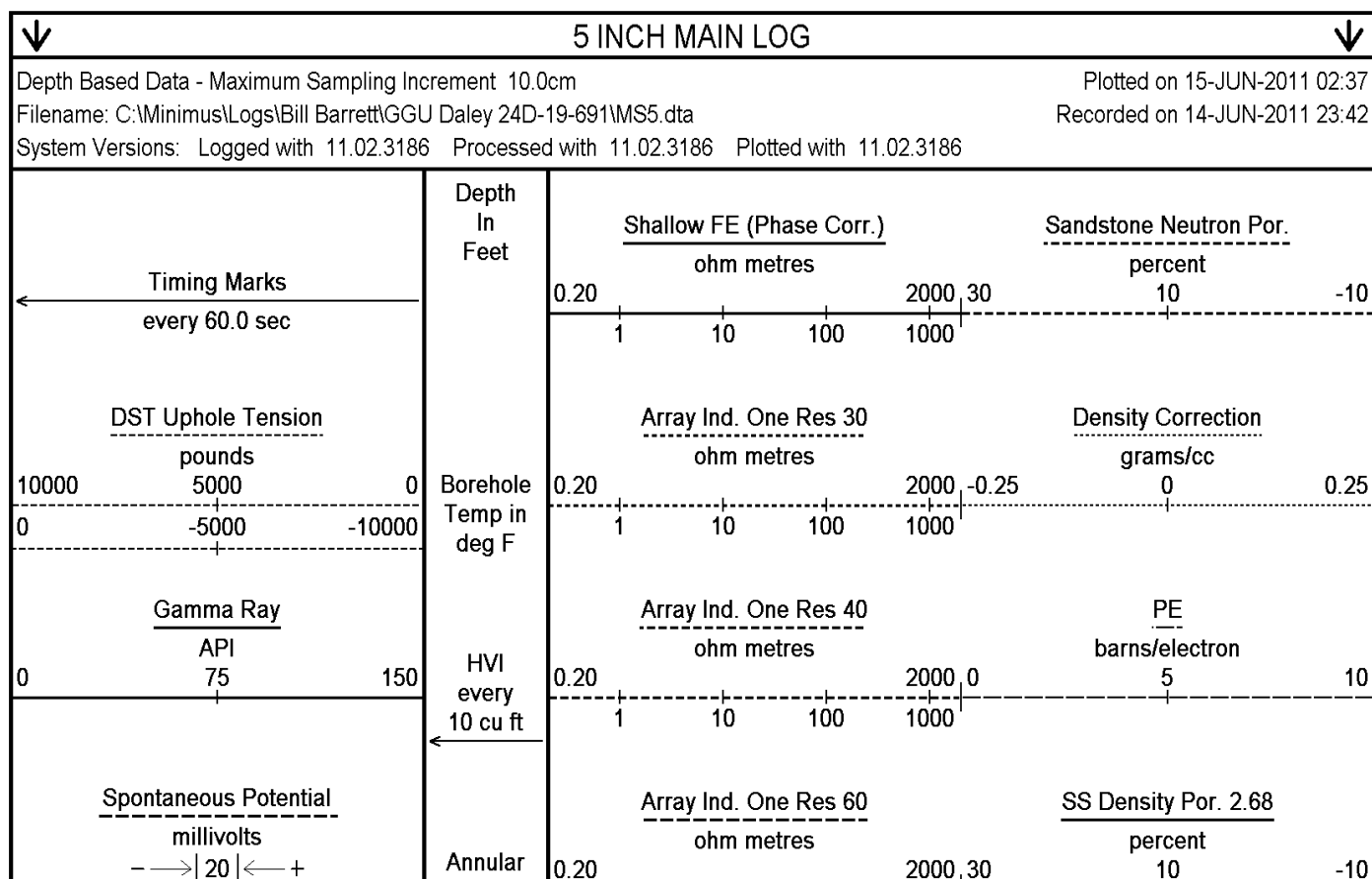
ENGINEER(S): K. SALLER

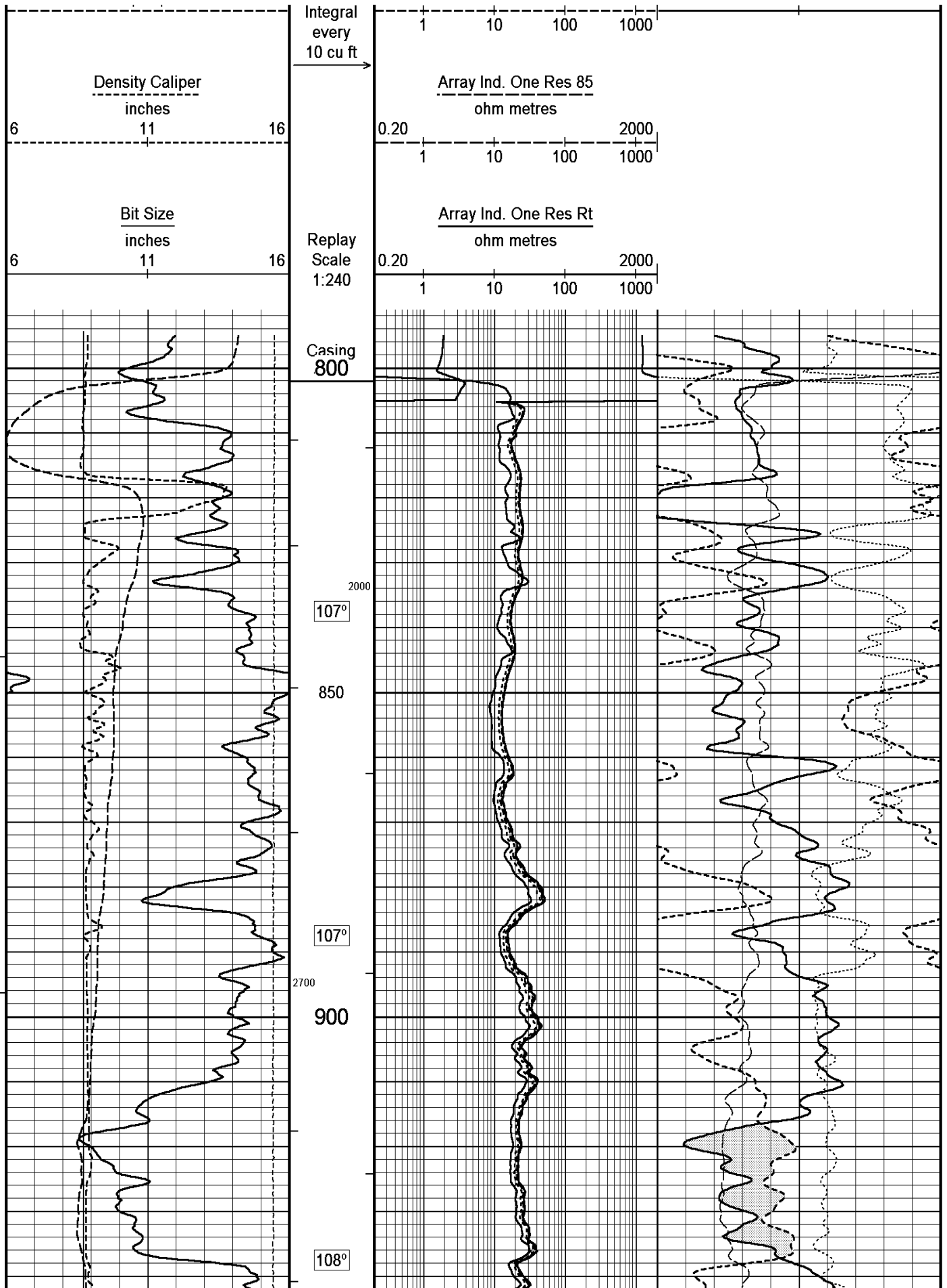
OPERATOR(S): D. SMITH, S. KAISER, J. LIU

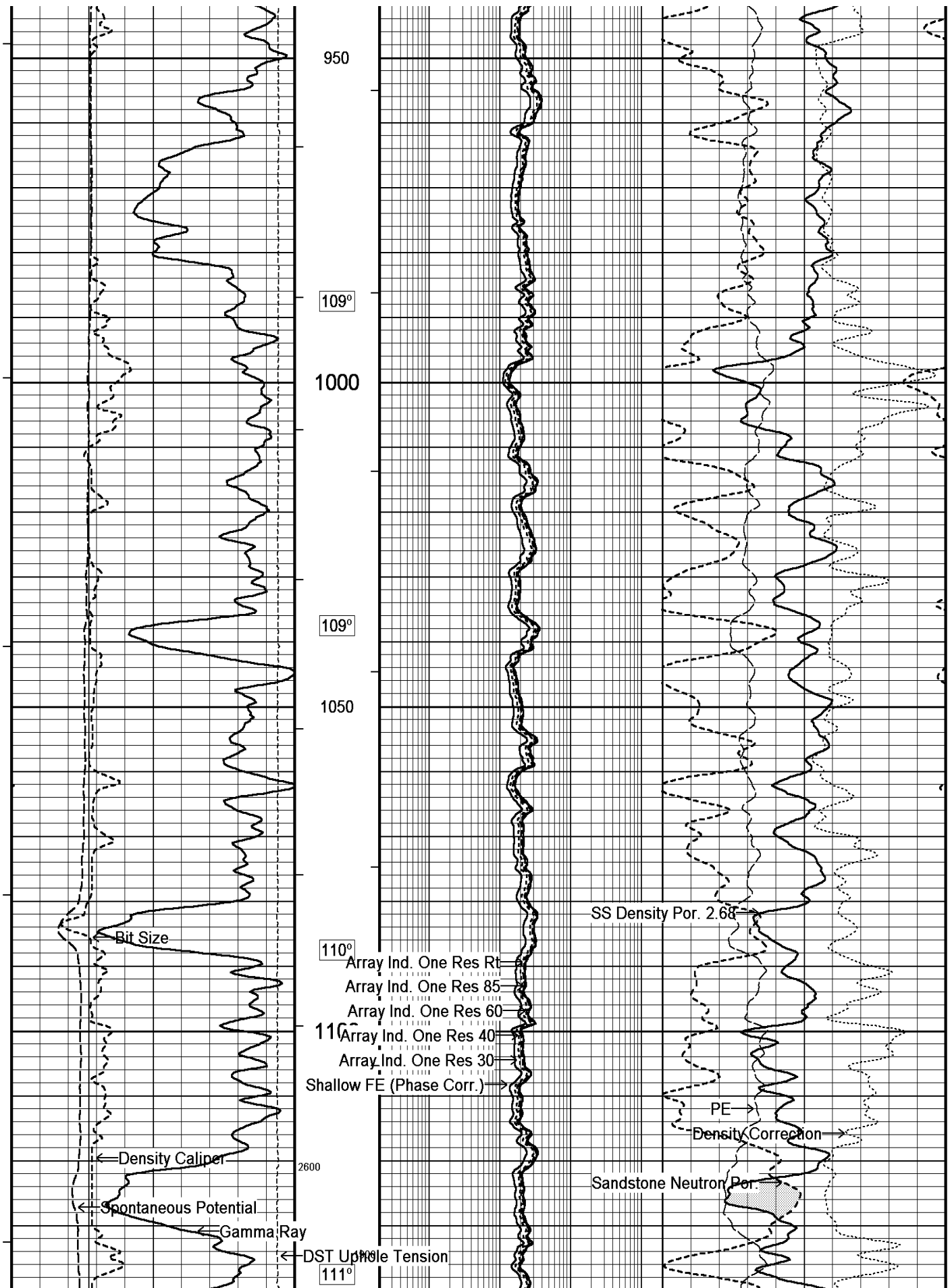
SERVICE ORDER: # 3524807

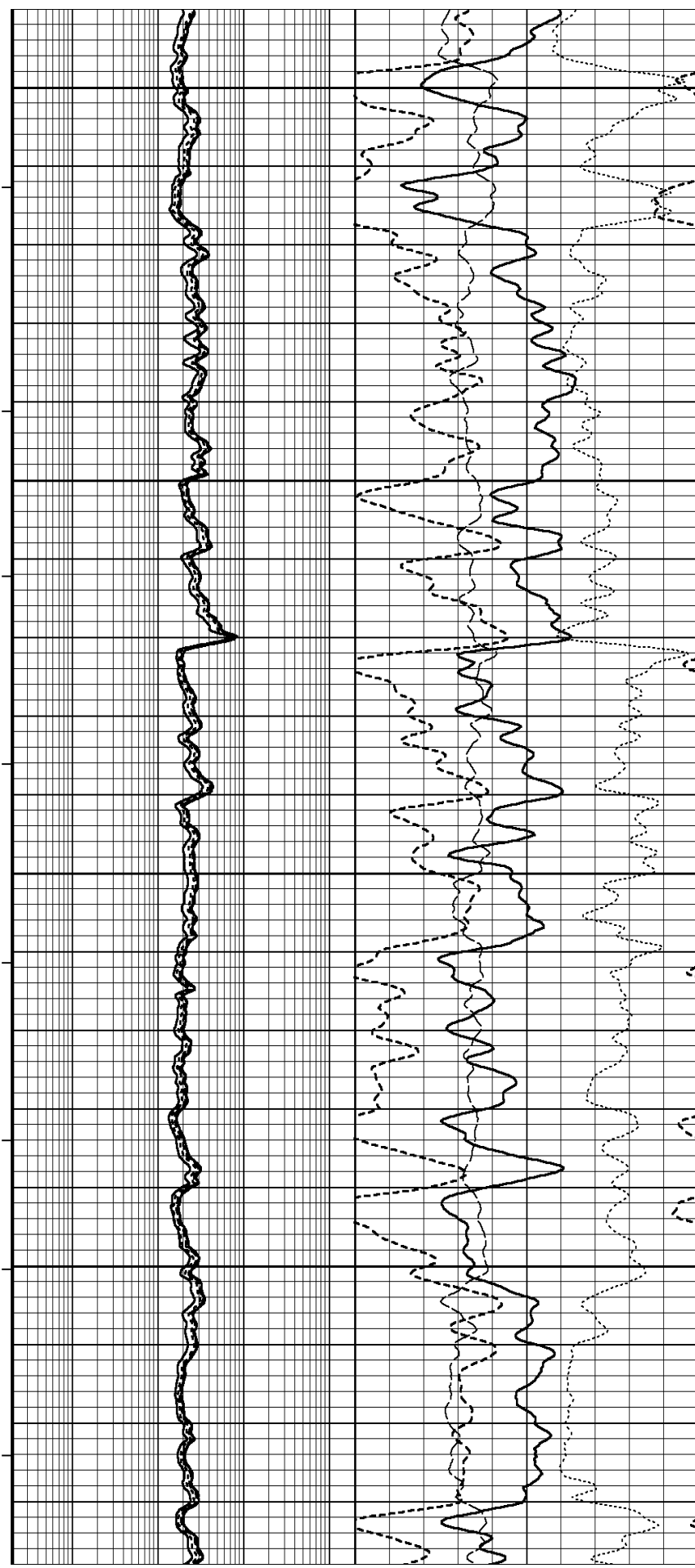
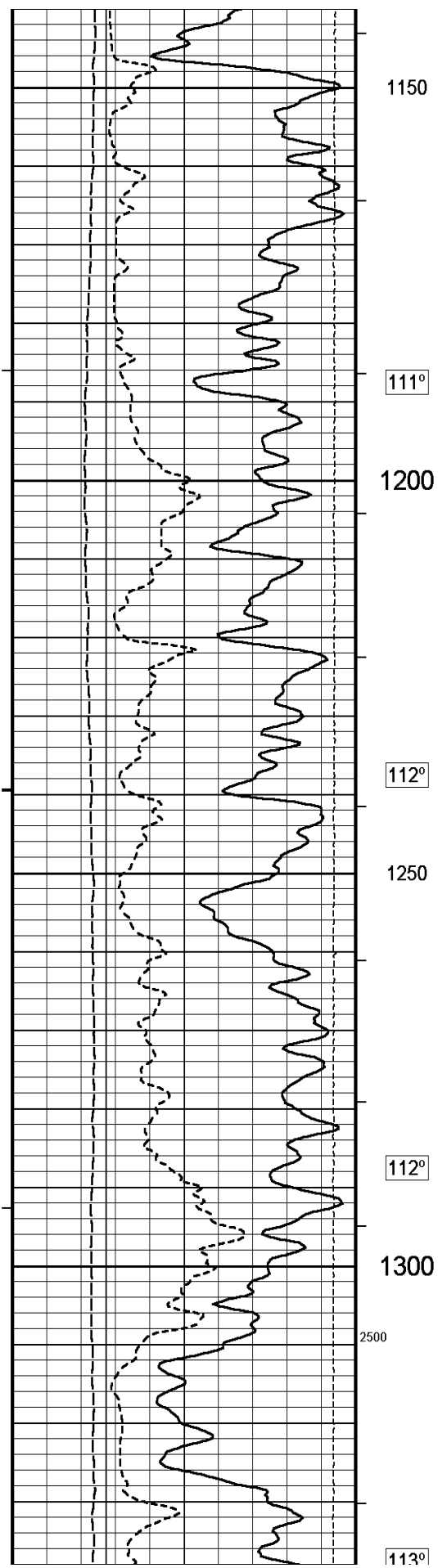
RIG: PATTERSON #307

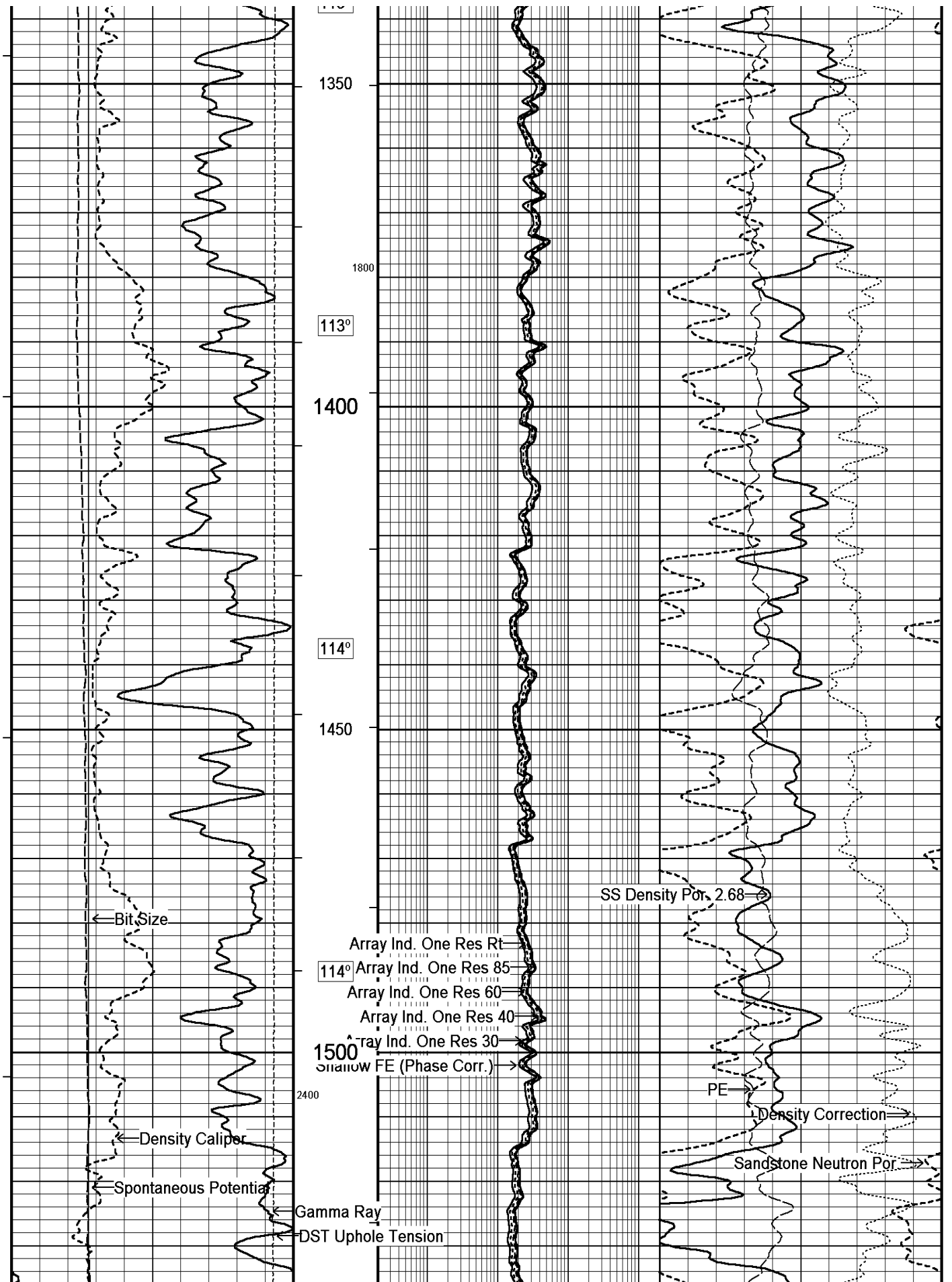
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.

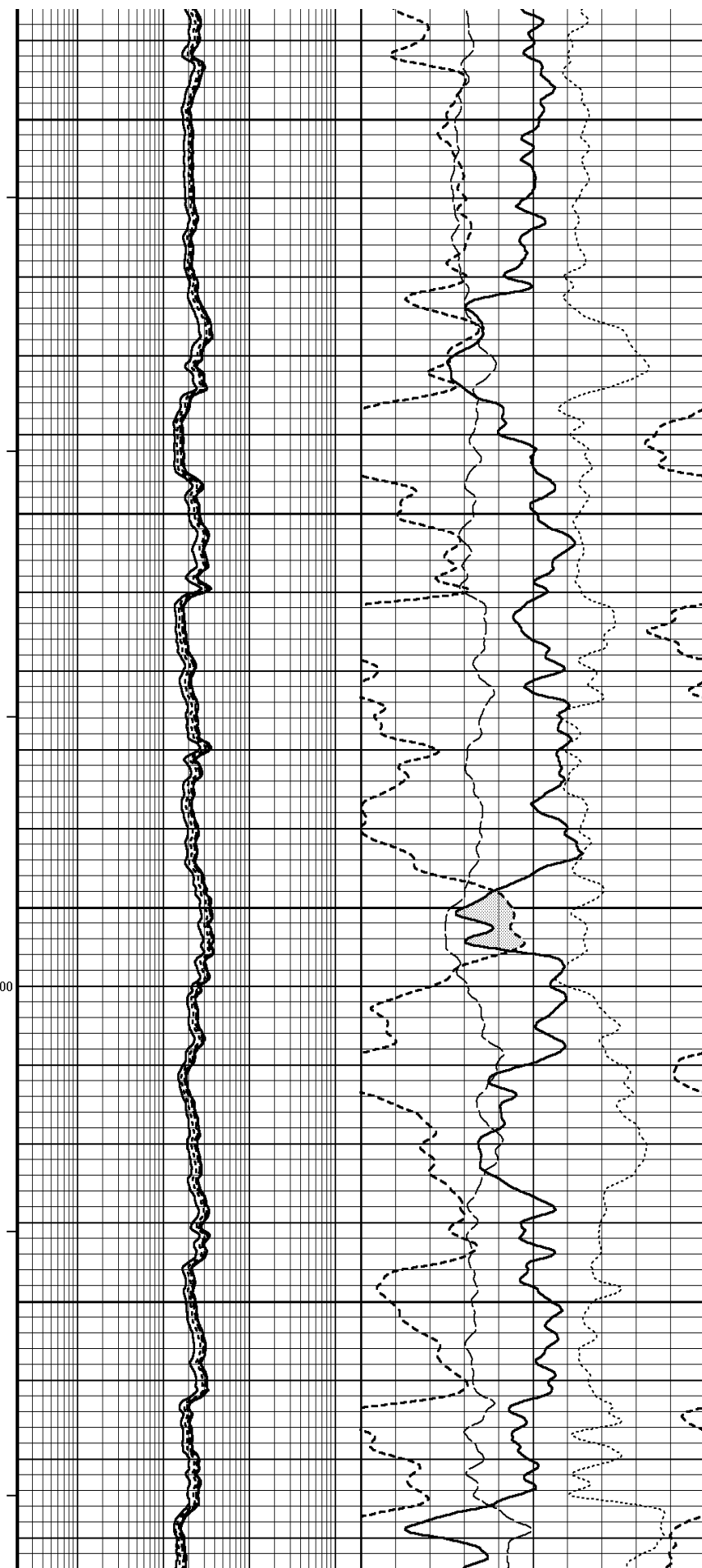
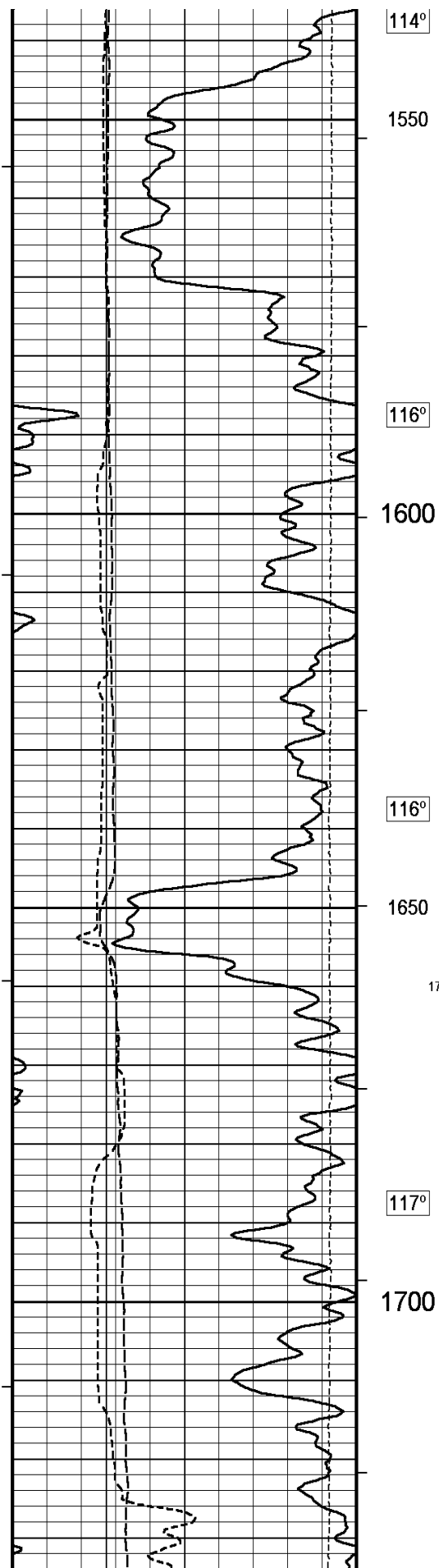


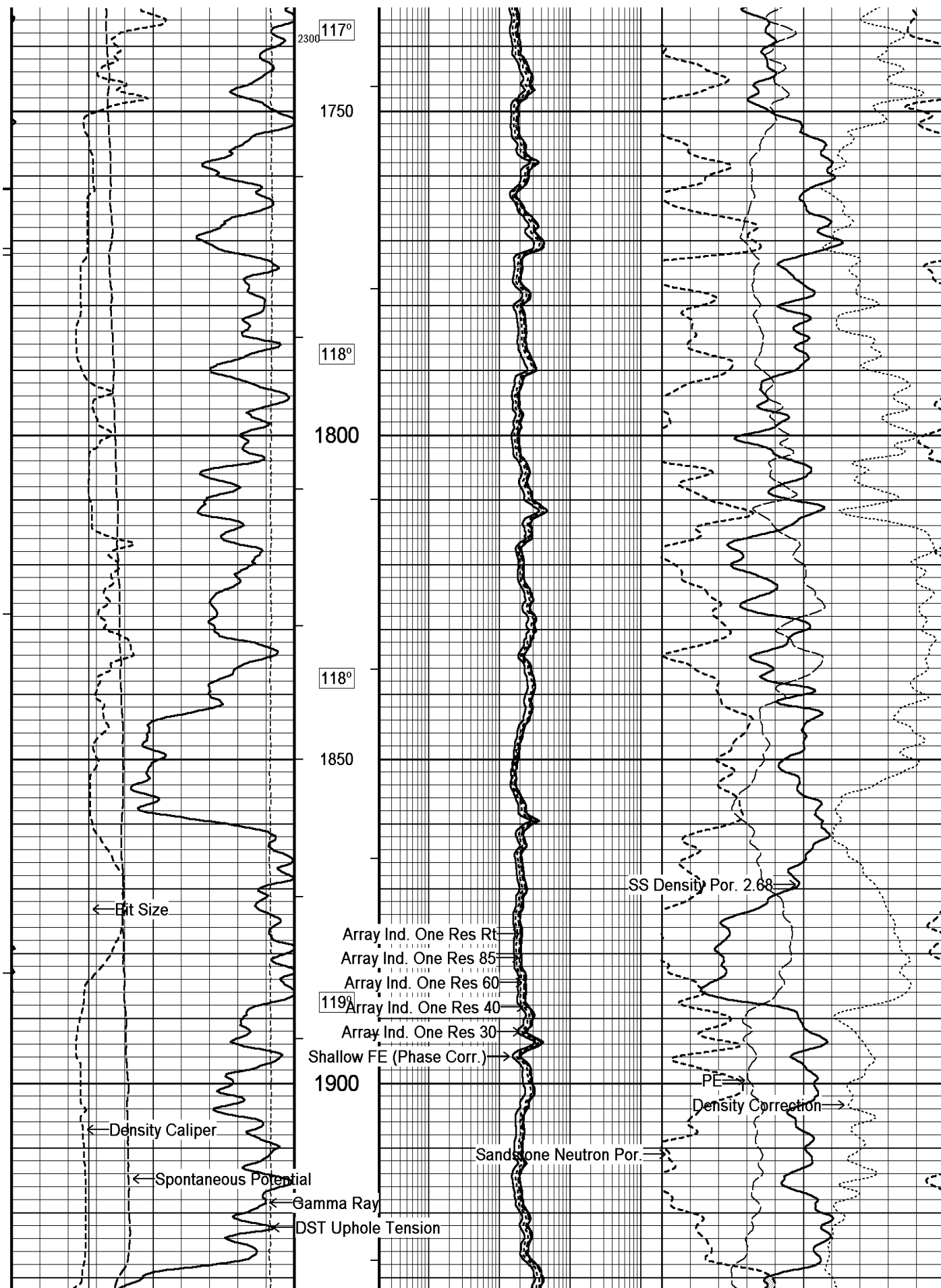


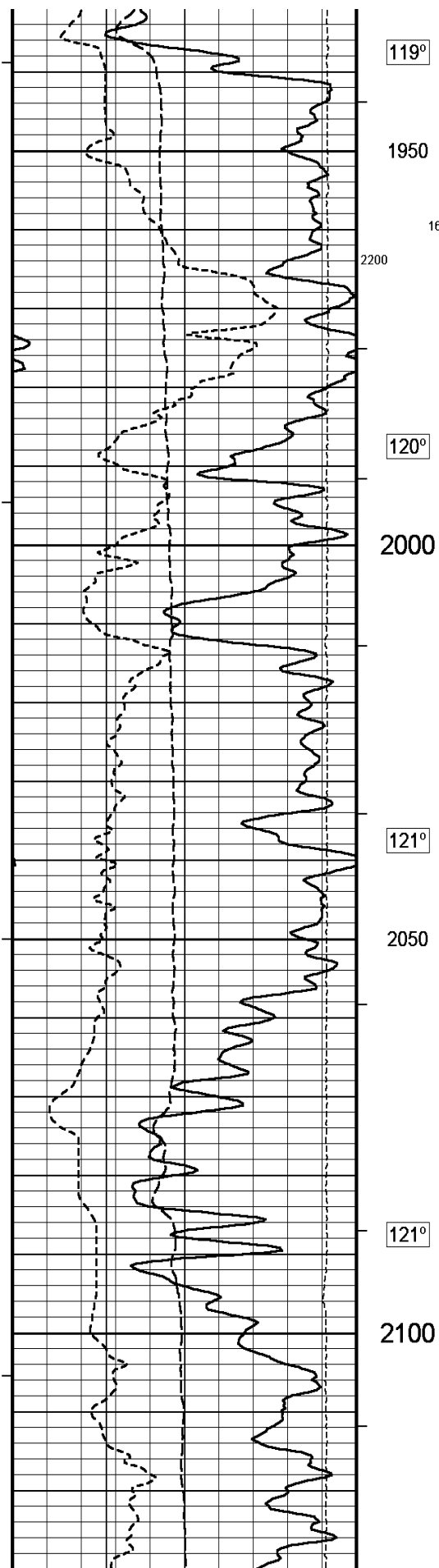












119°

1950

2200

120°

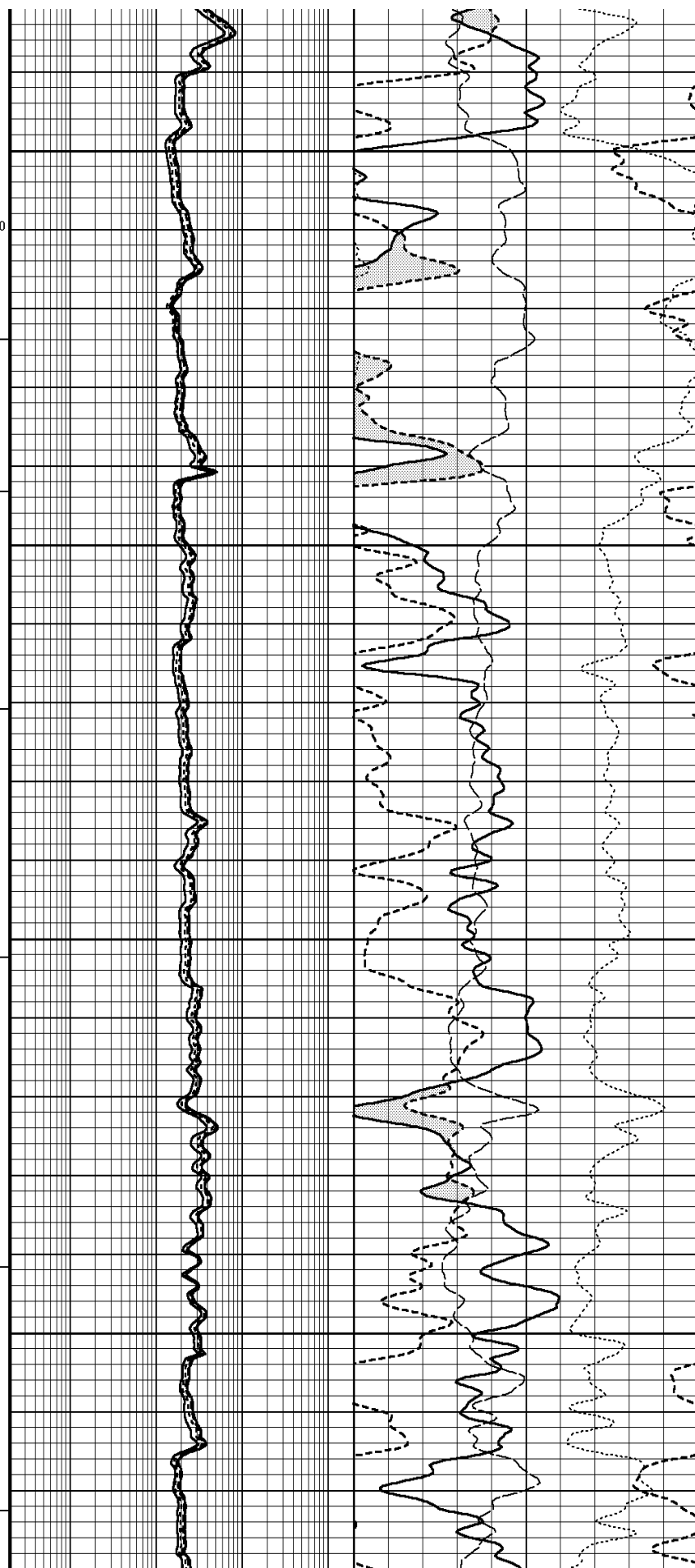
2000

121°

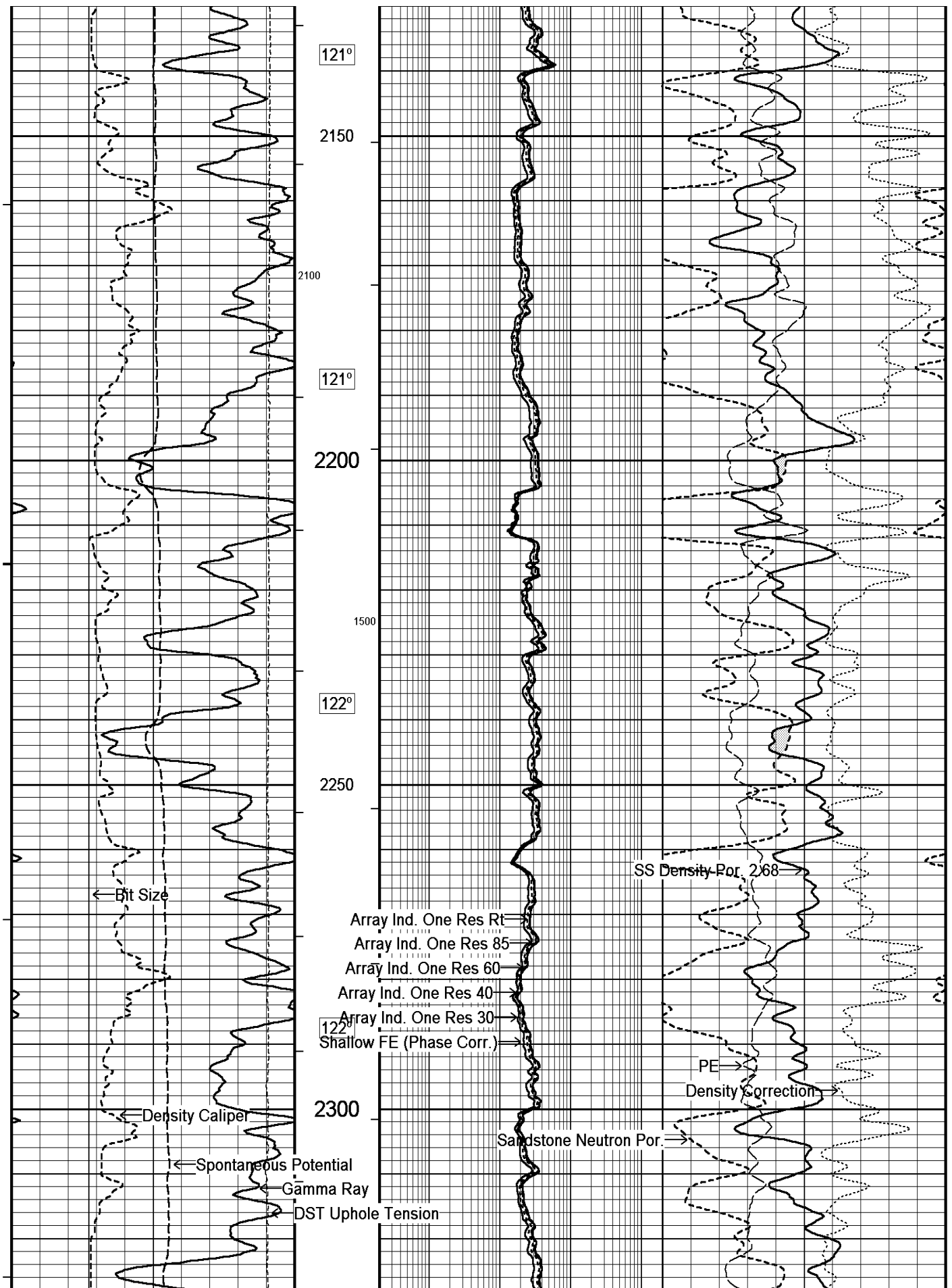
2050

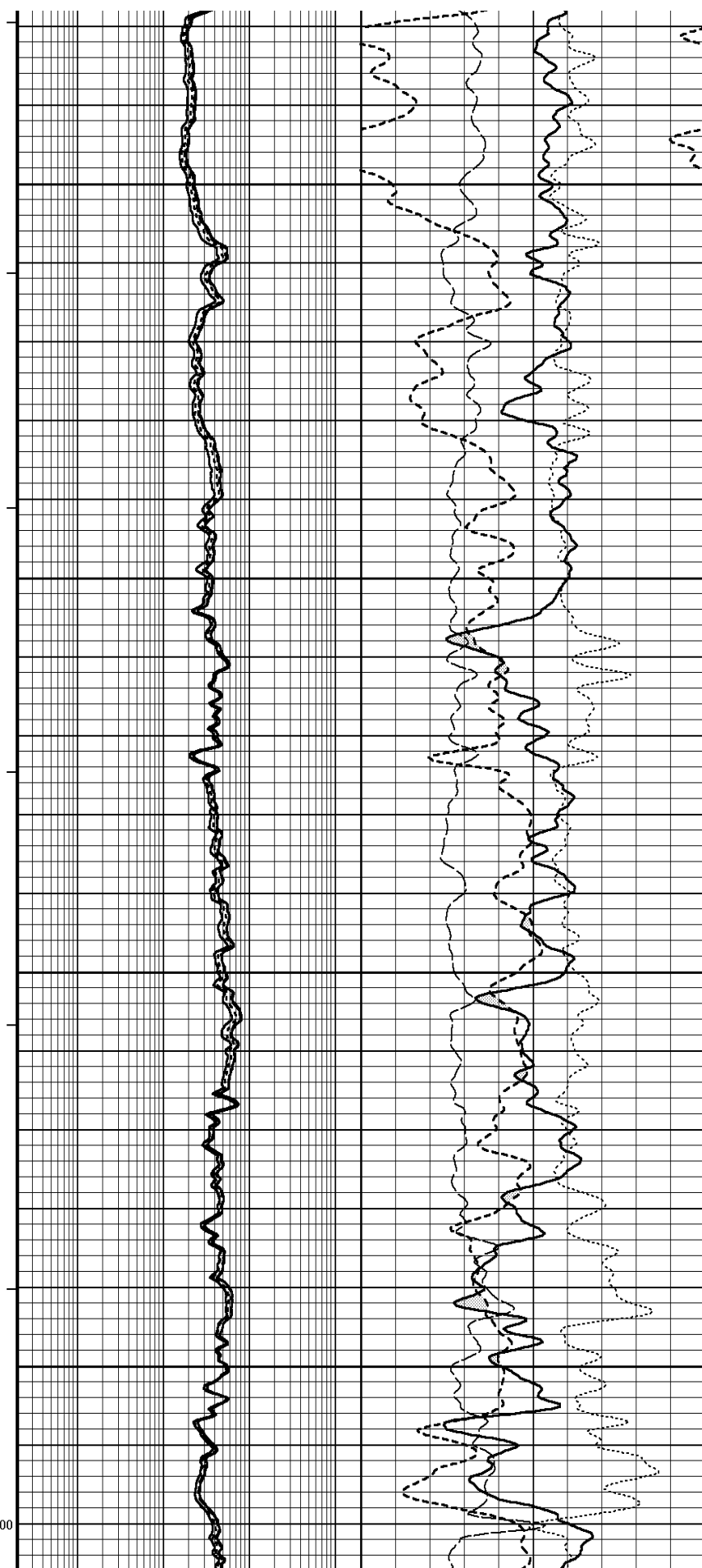
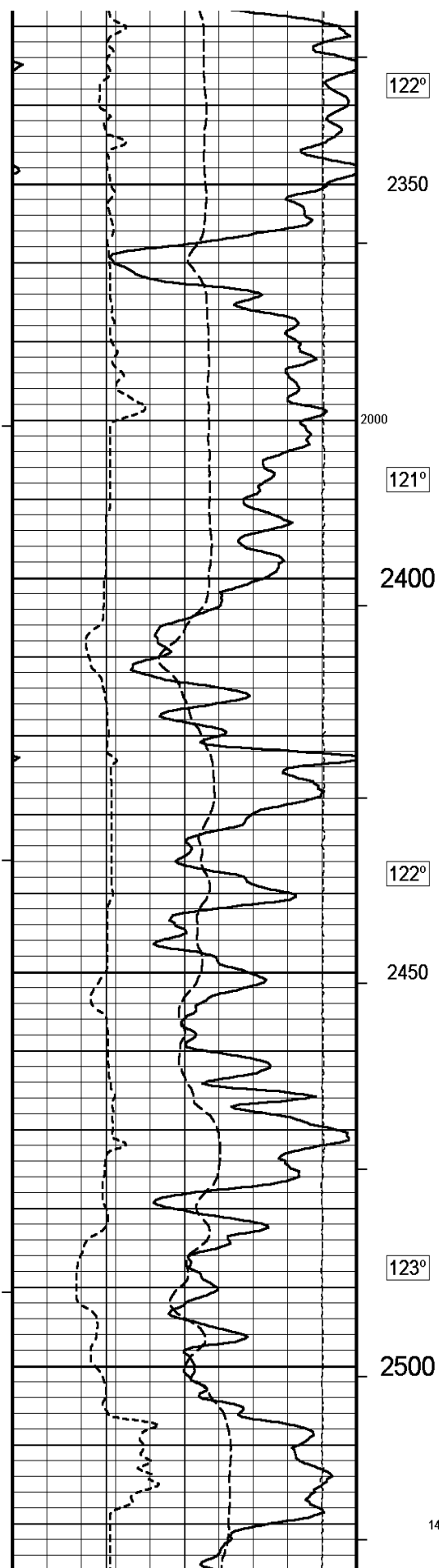
121°

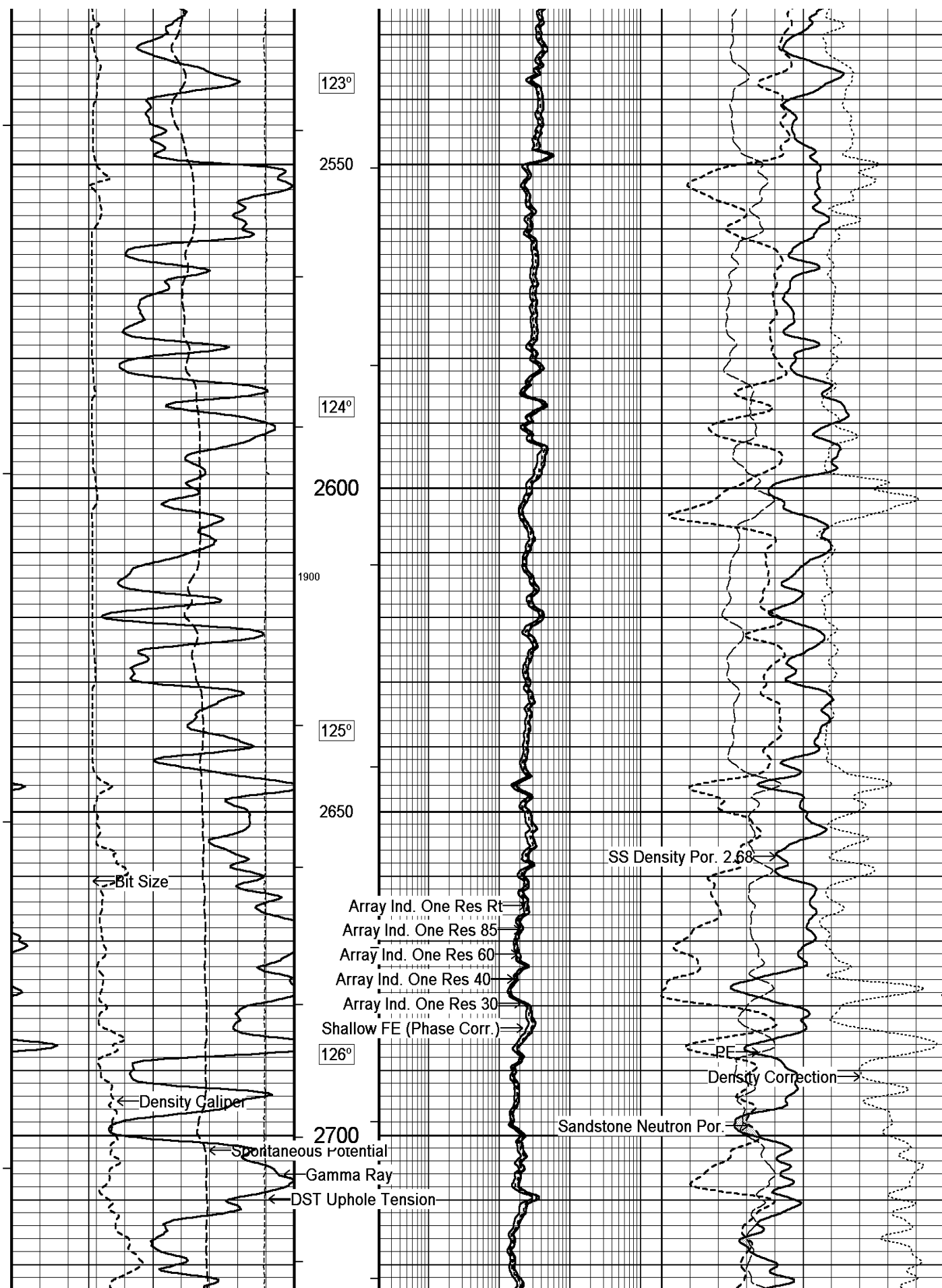
2100

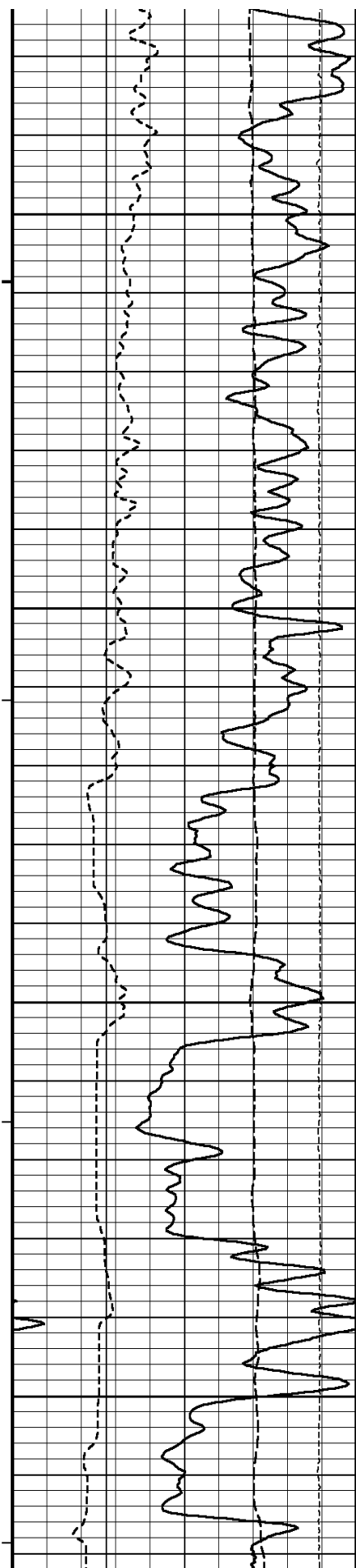


1600









127°

2750

127°

2800

1800

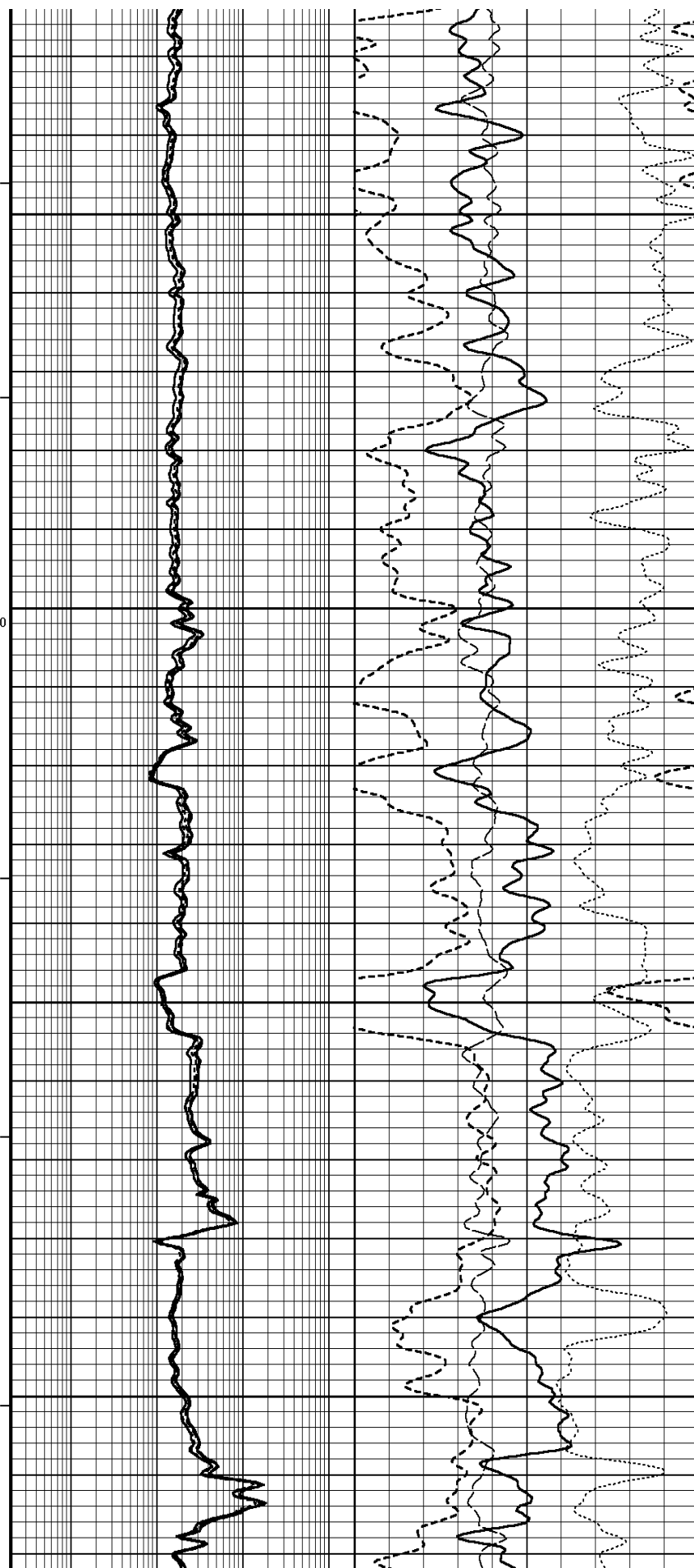
128°

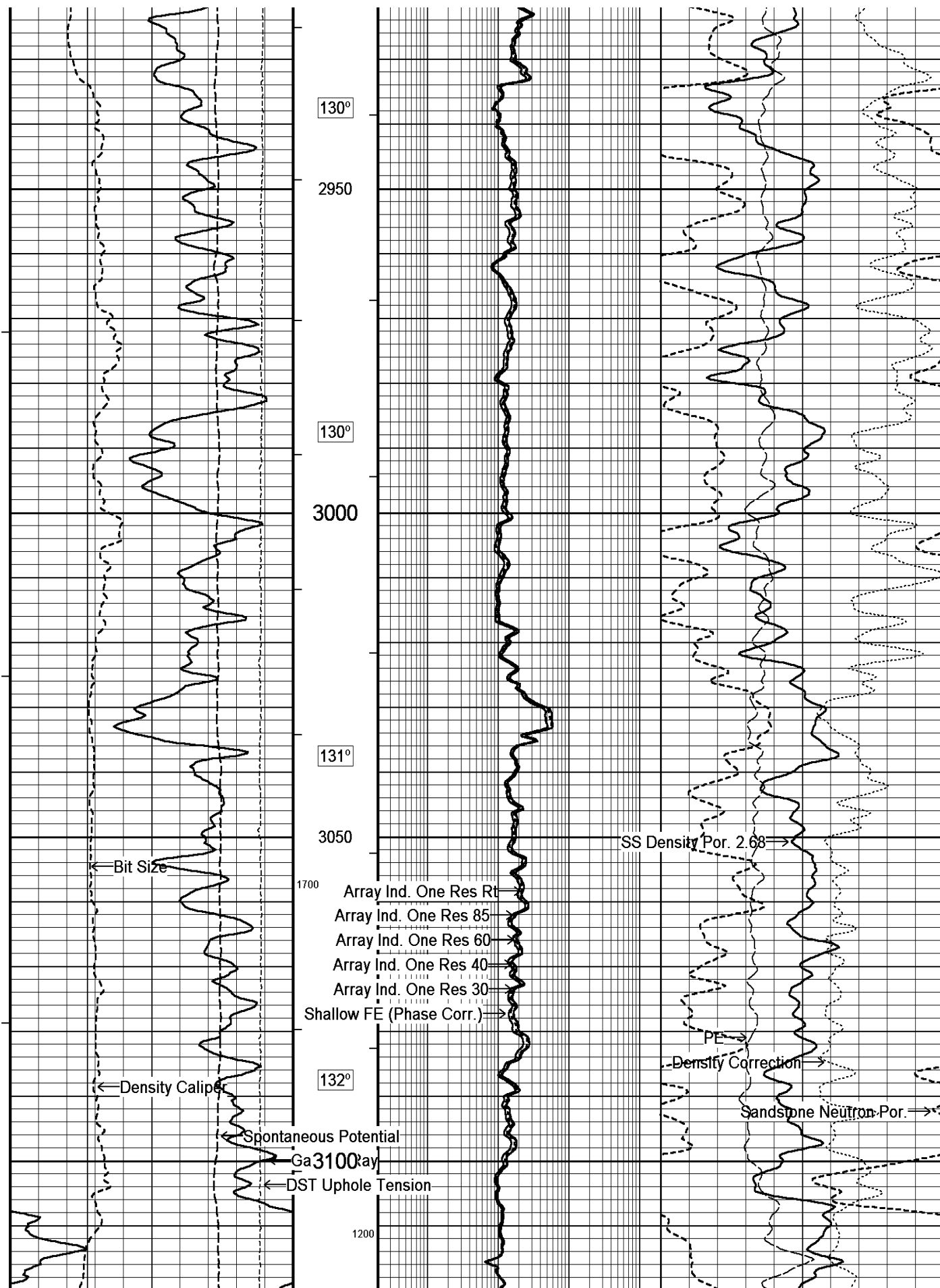
2850

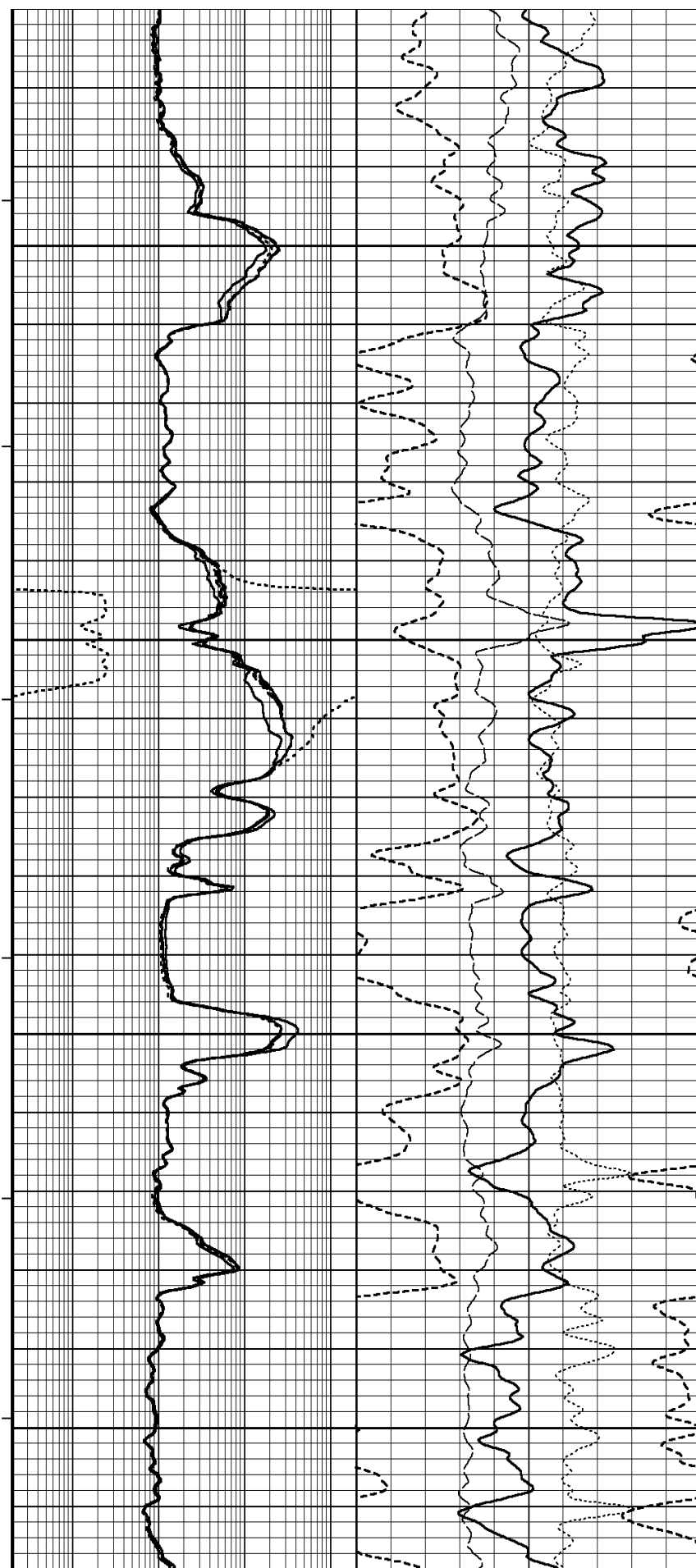
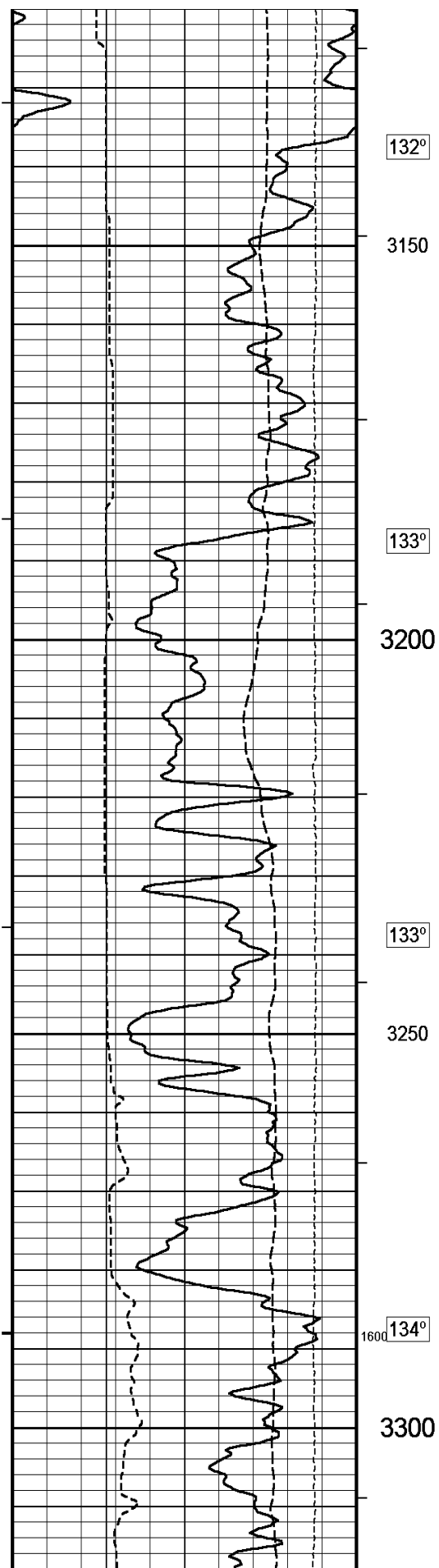
129°

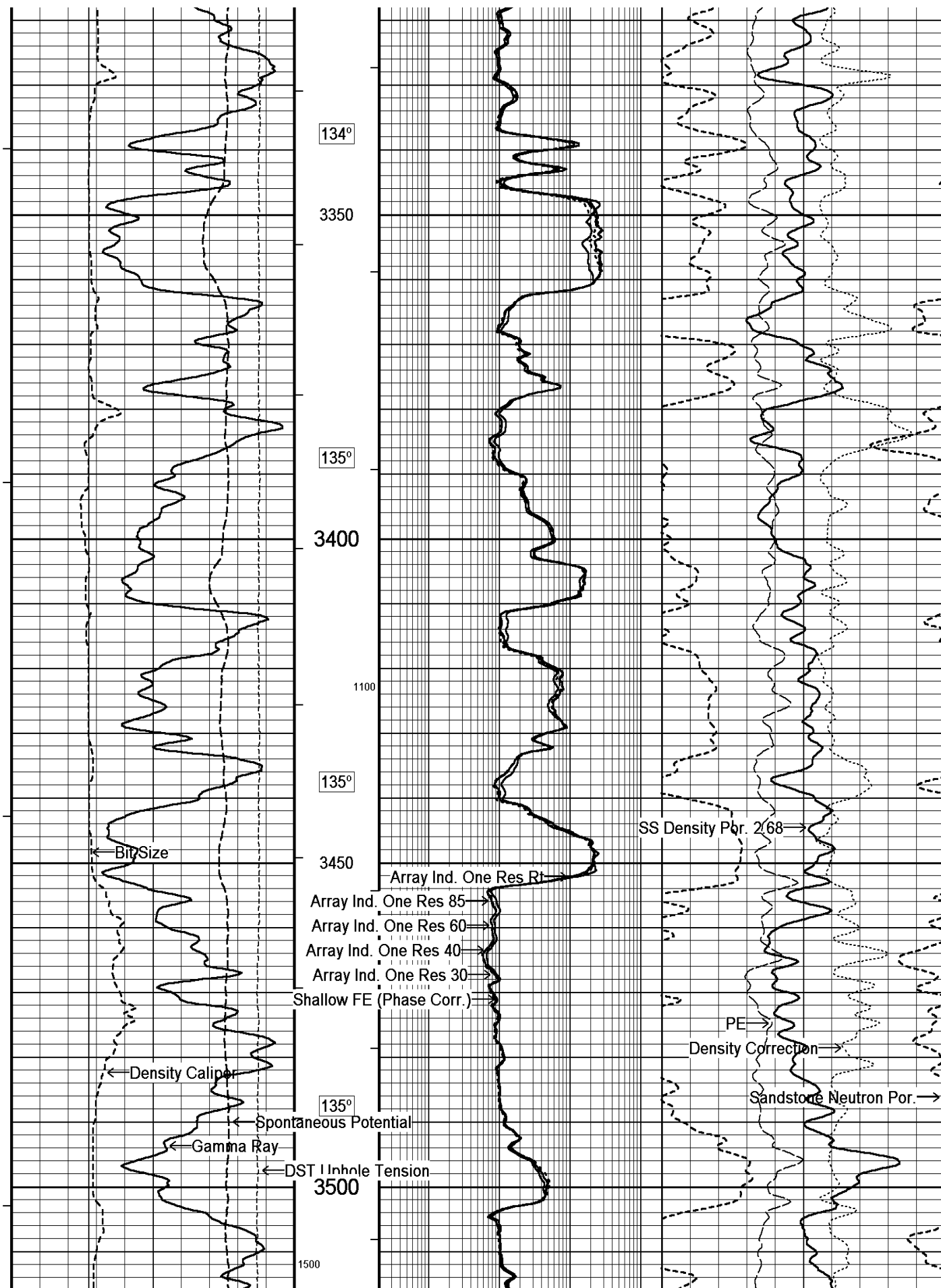
2900

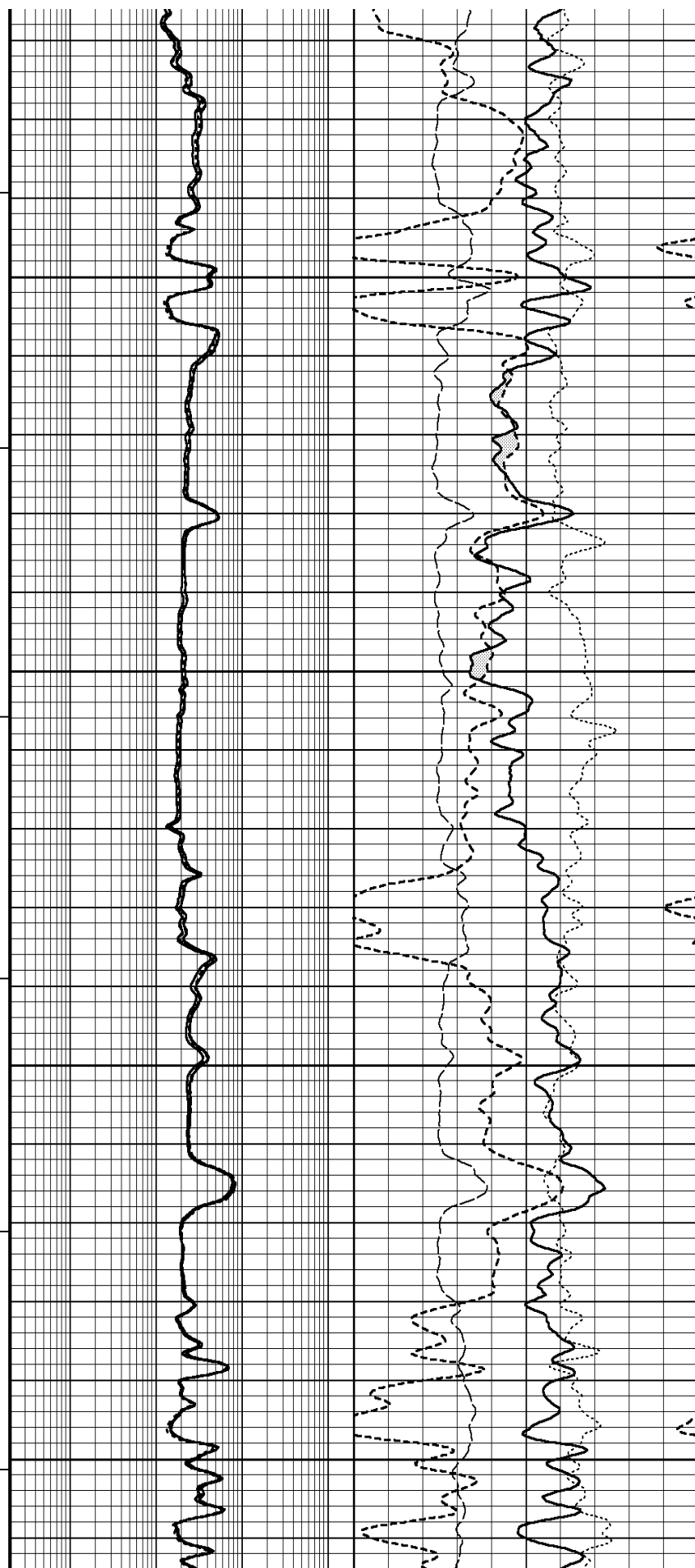
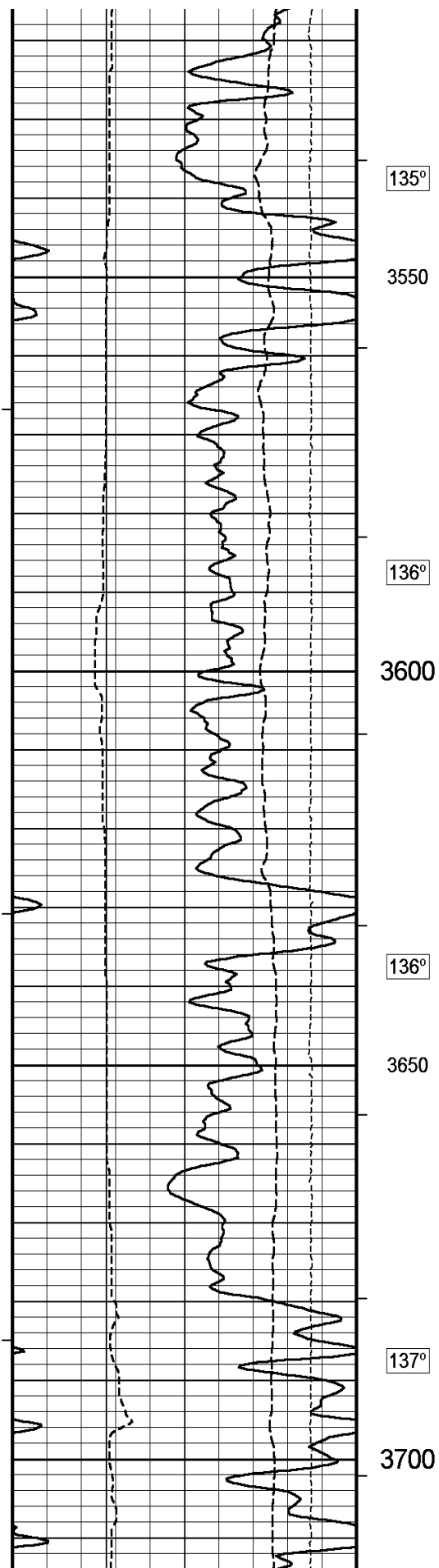
1300

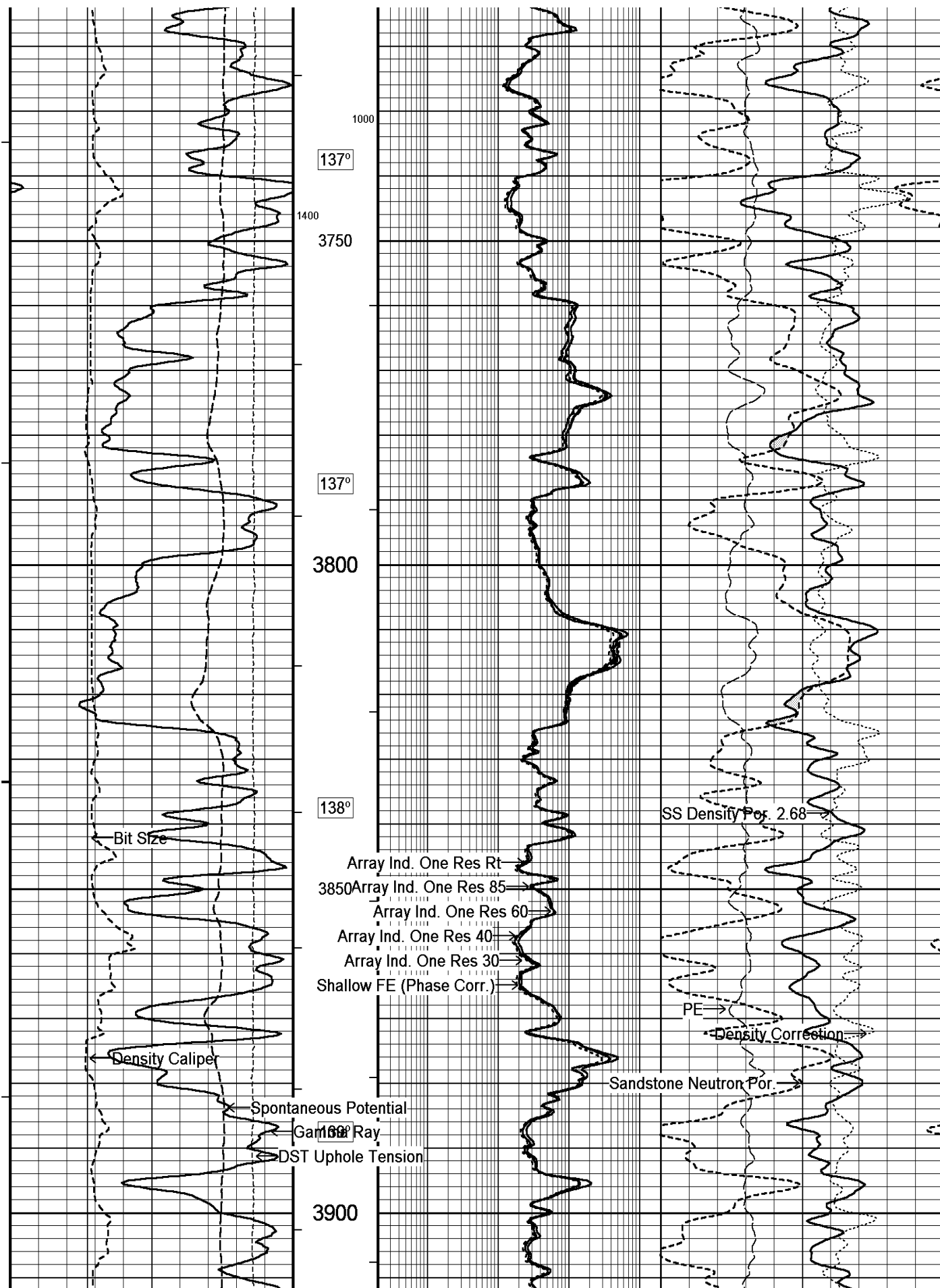


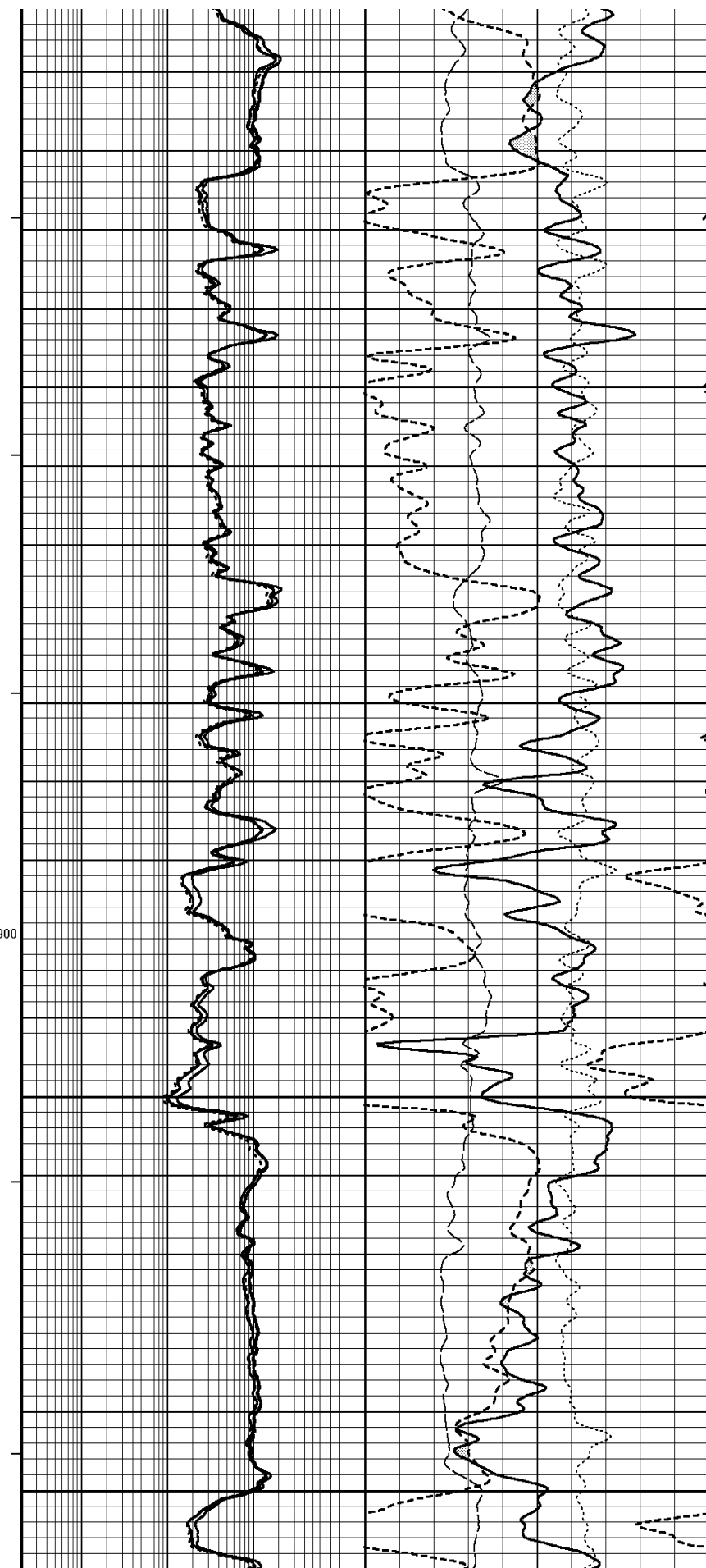
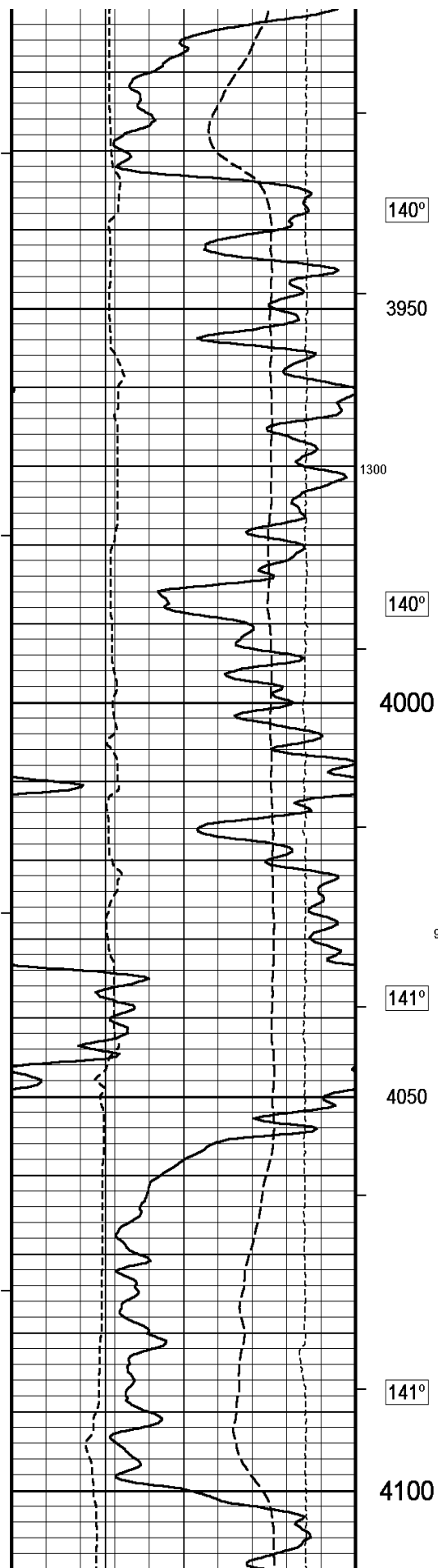


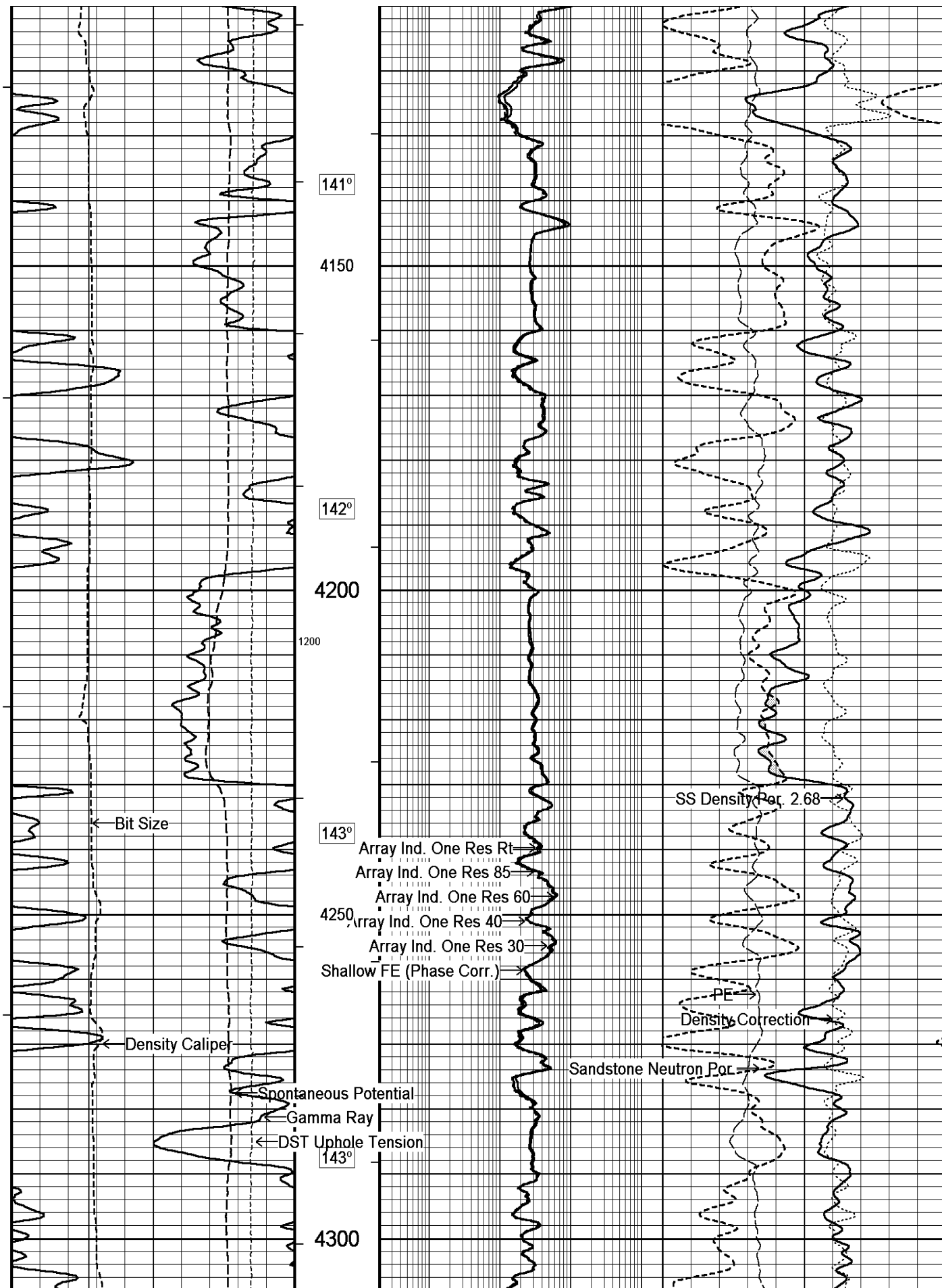


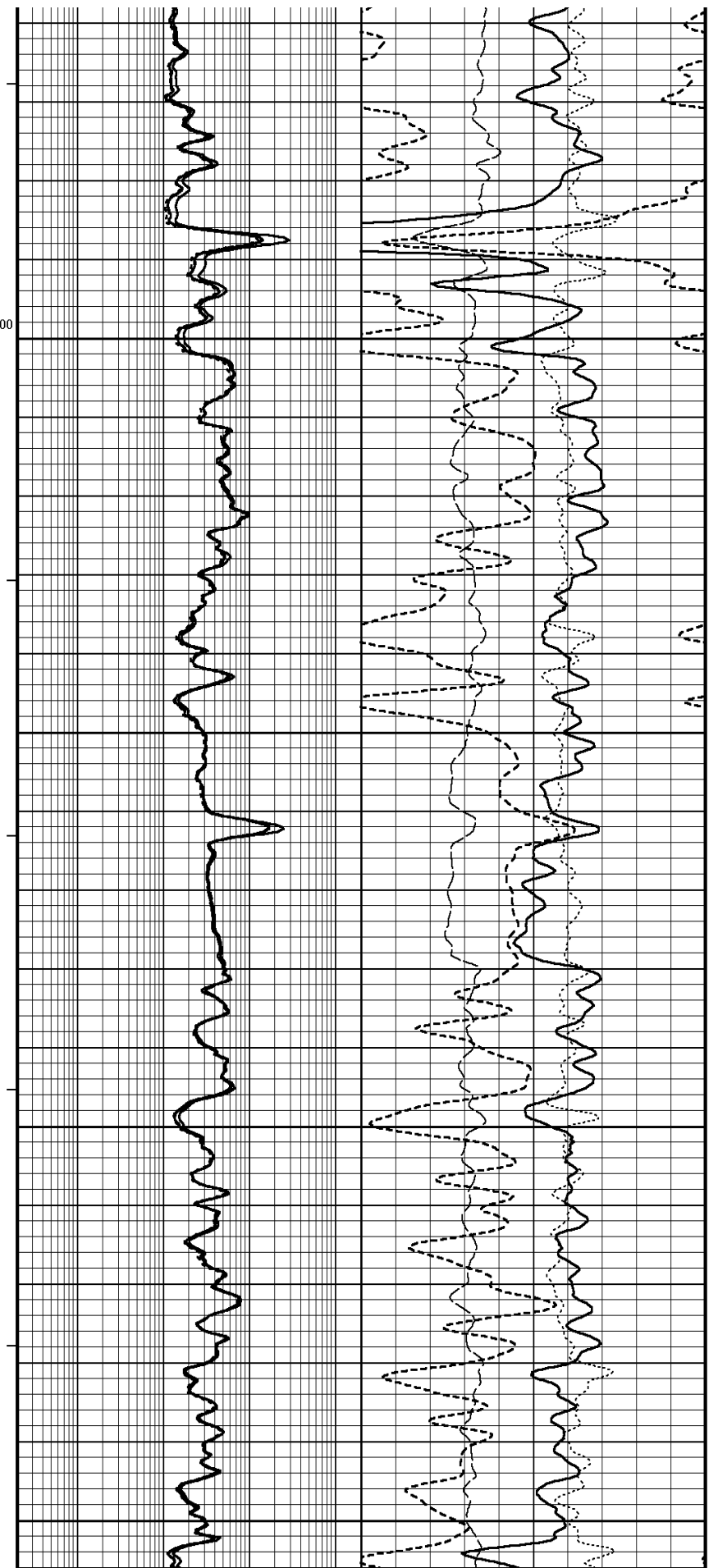
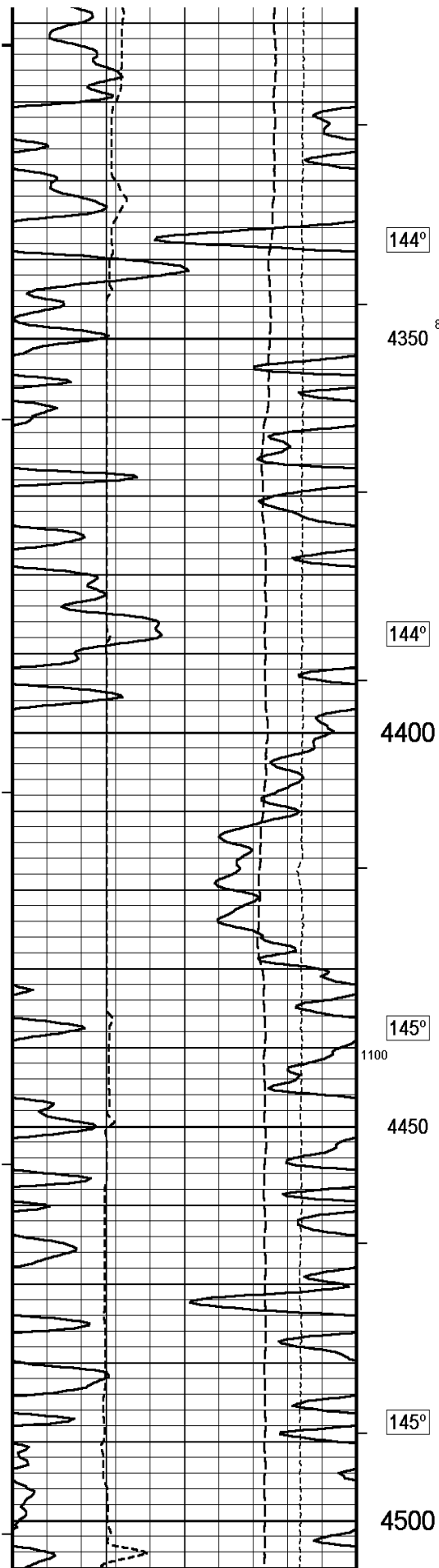


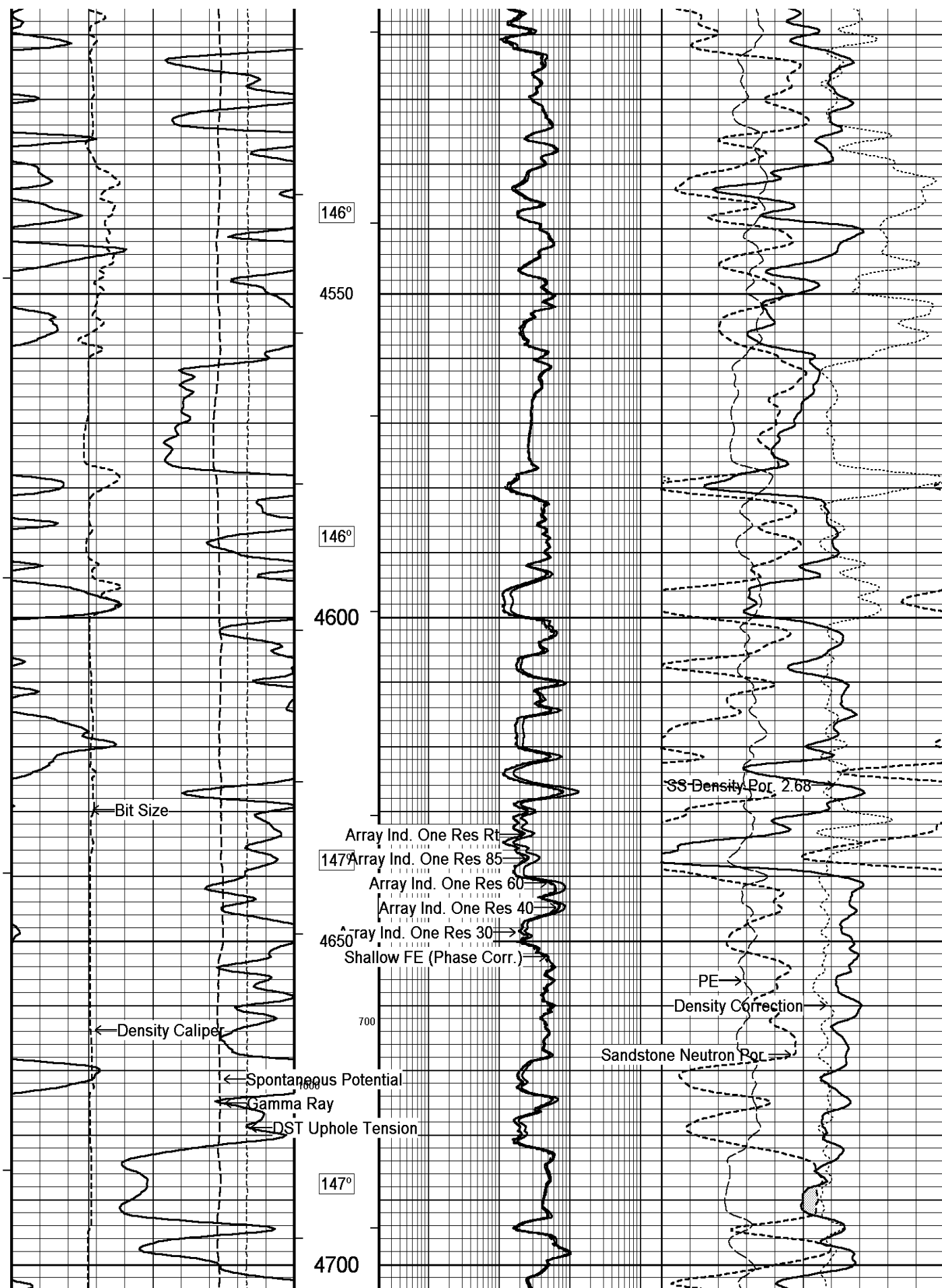


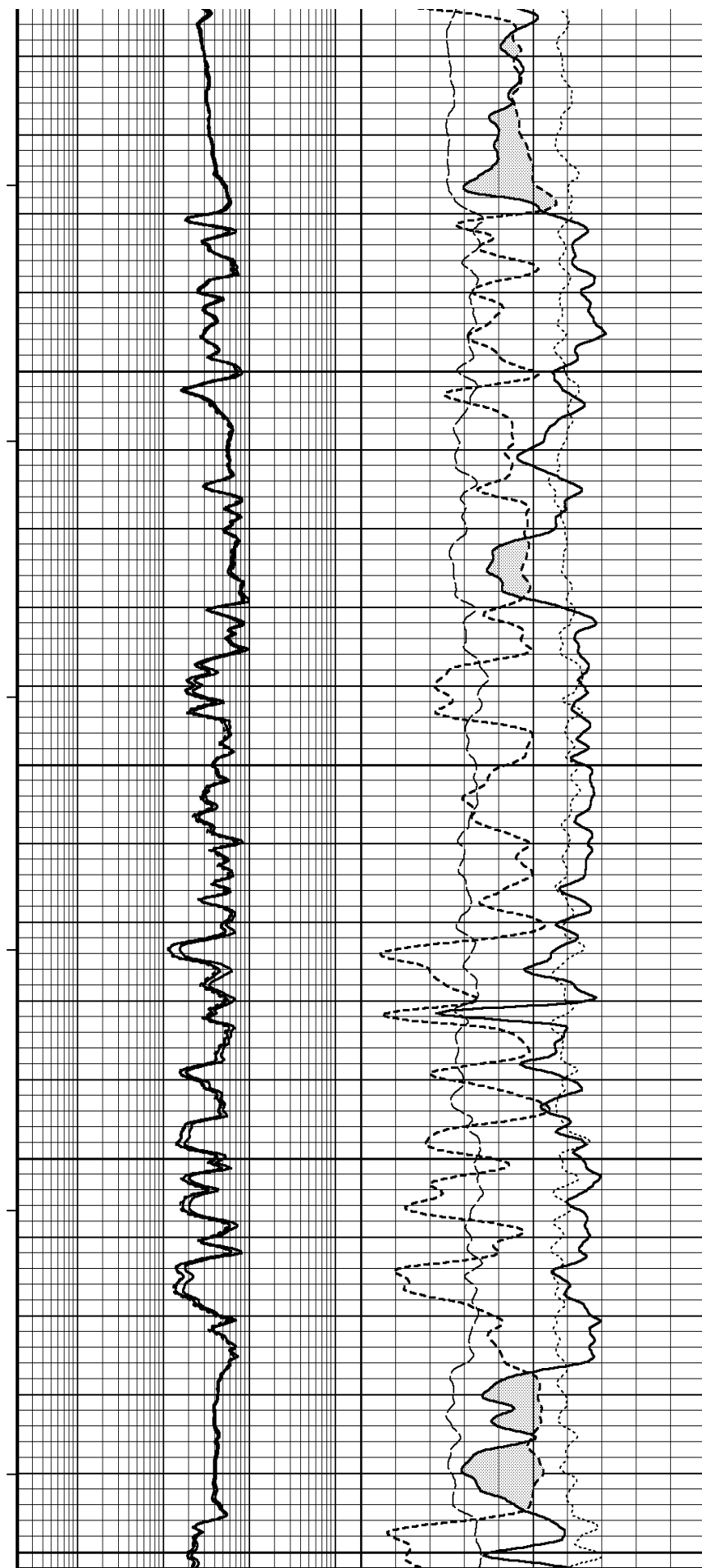
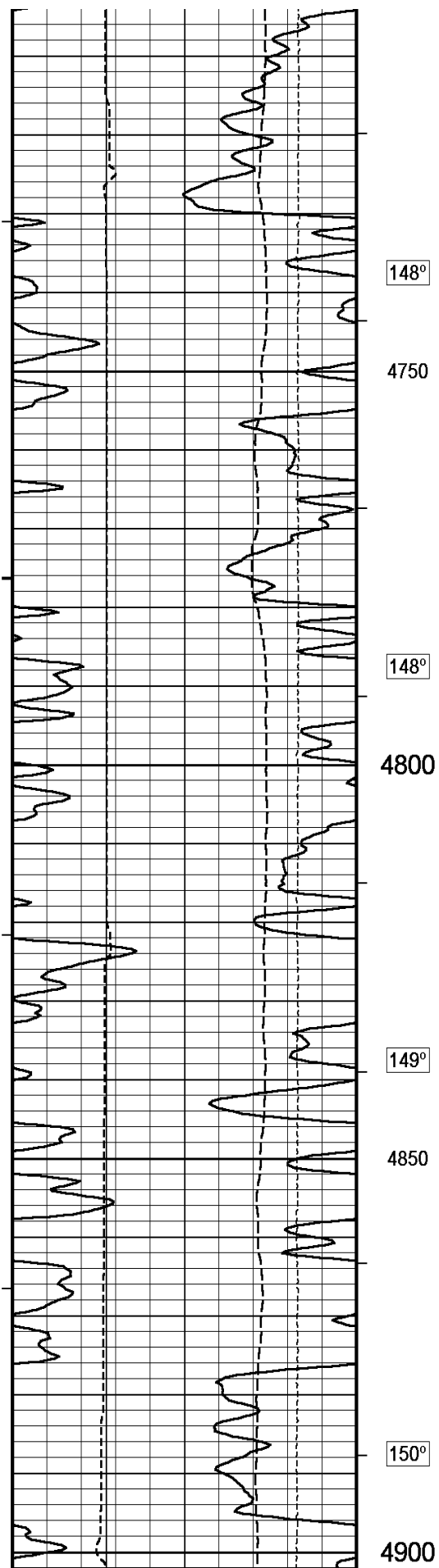


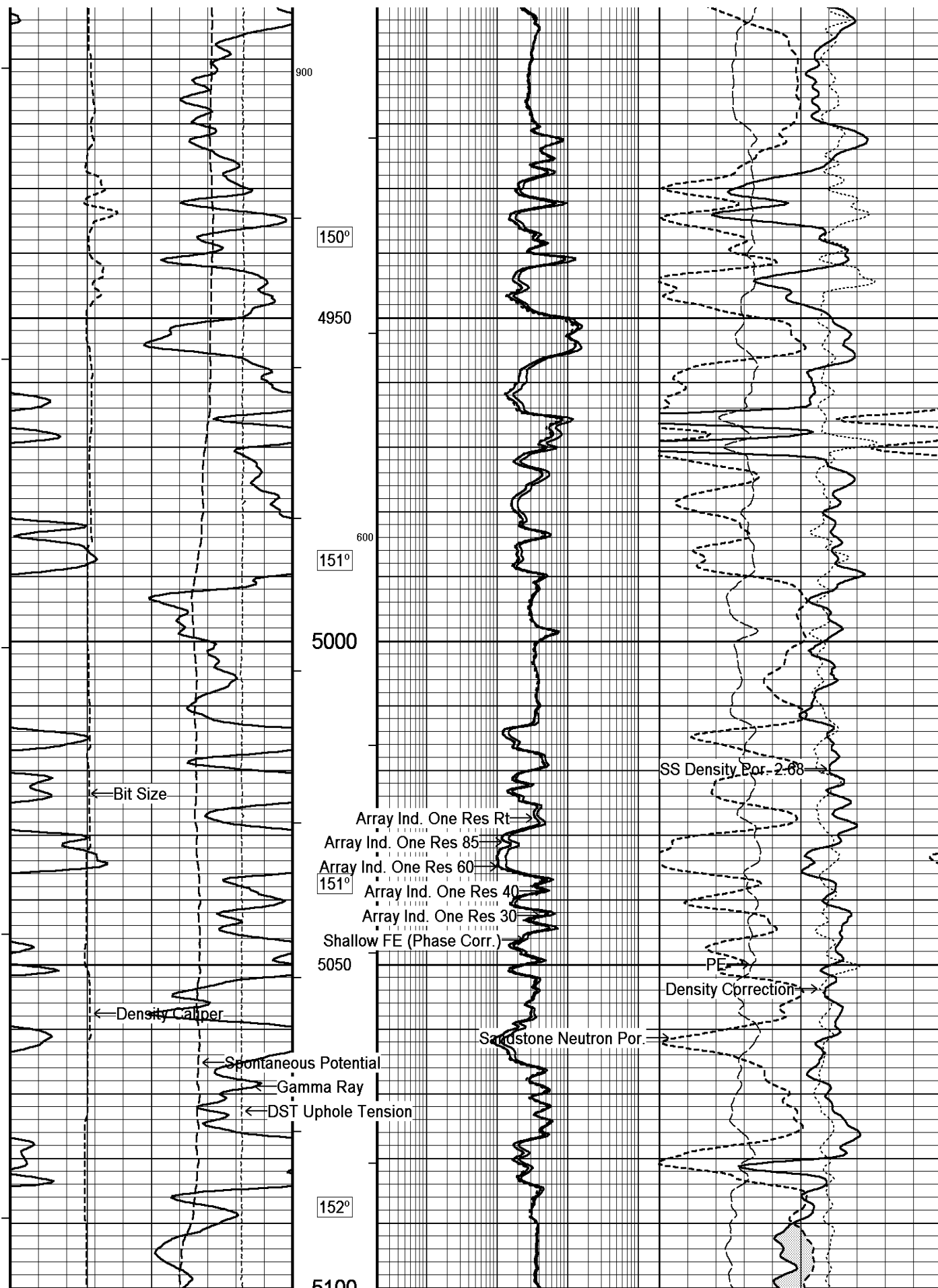


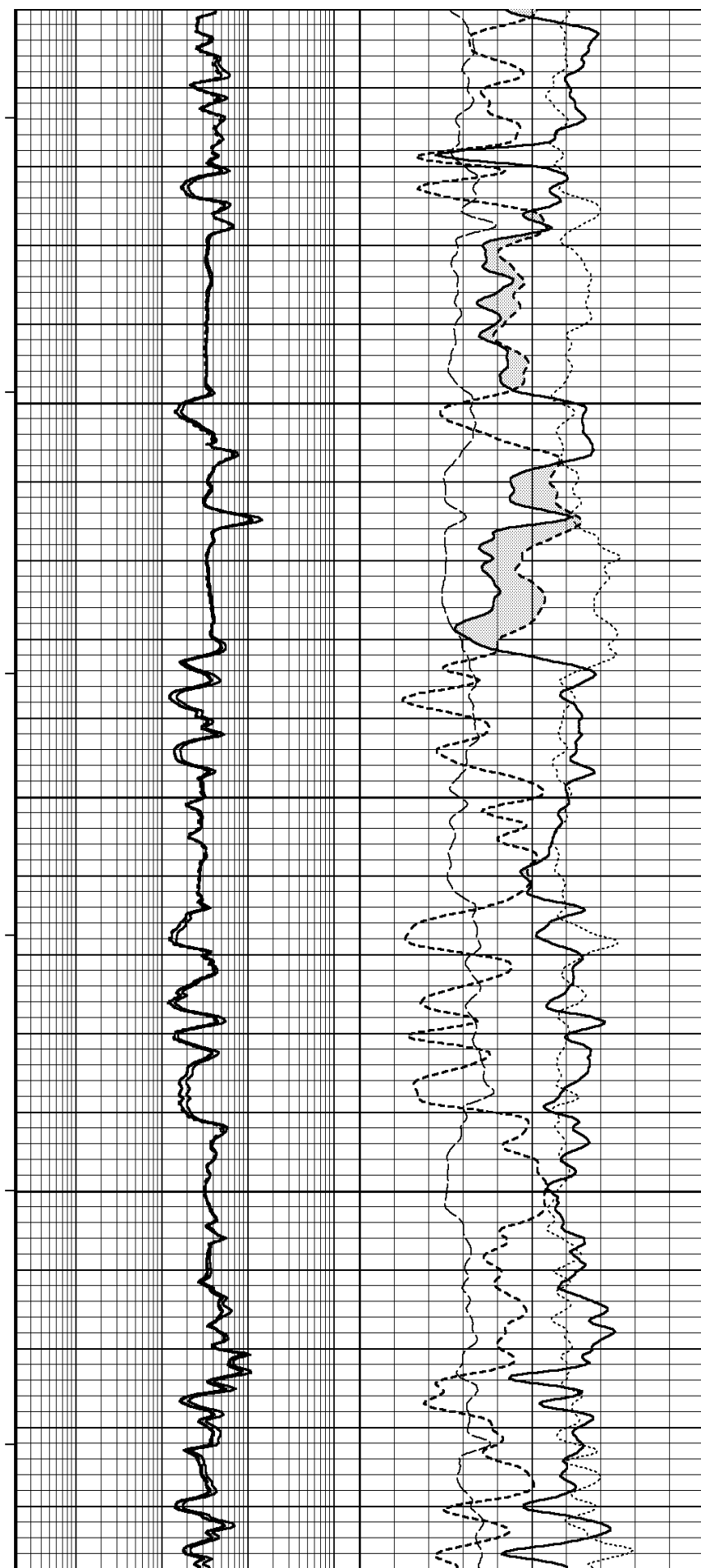
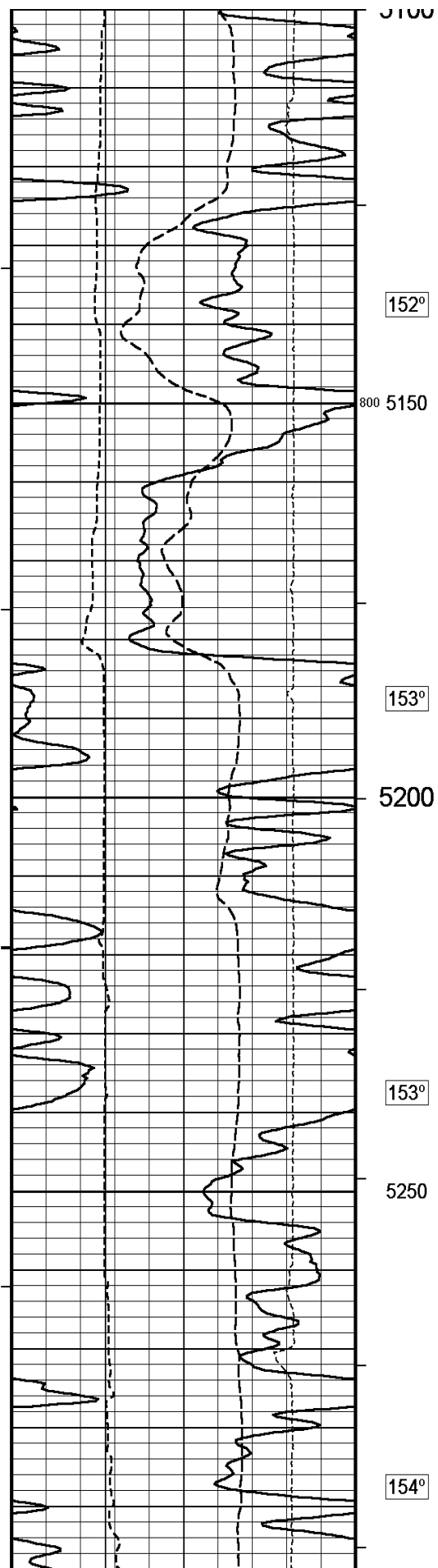


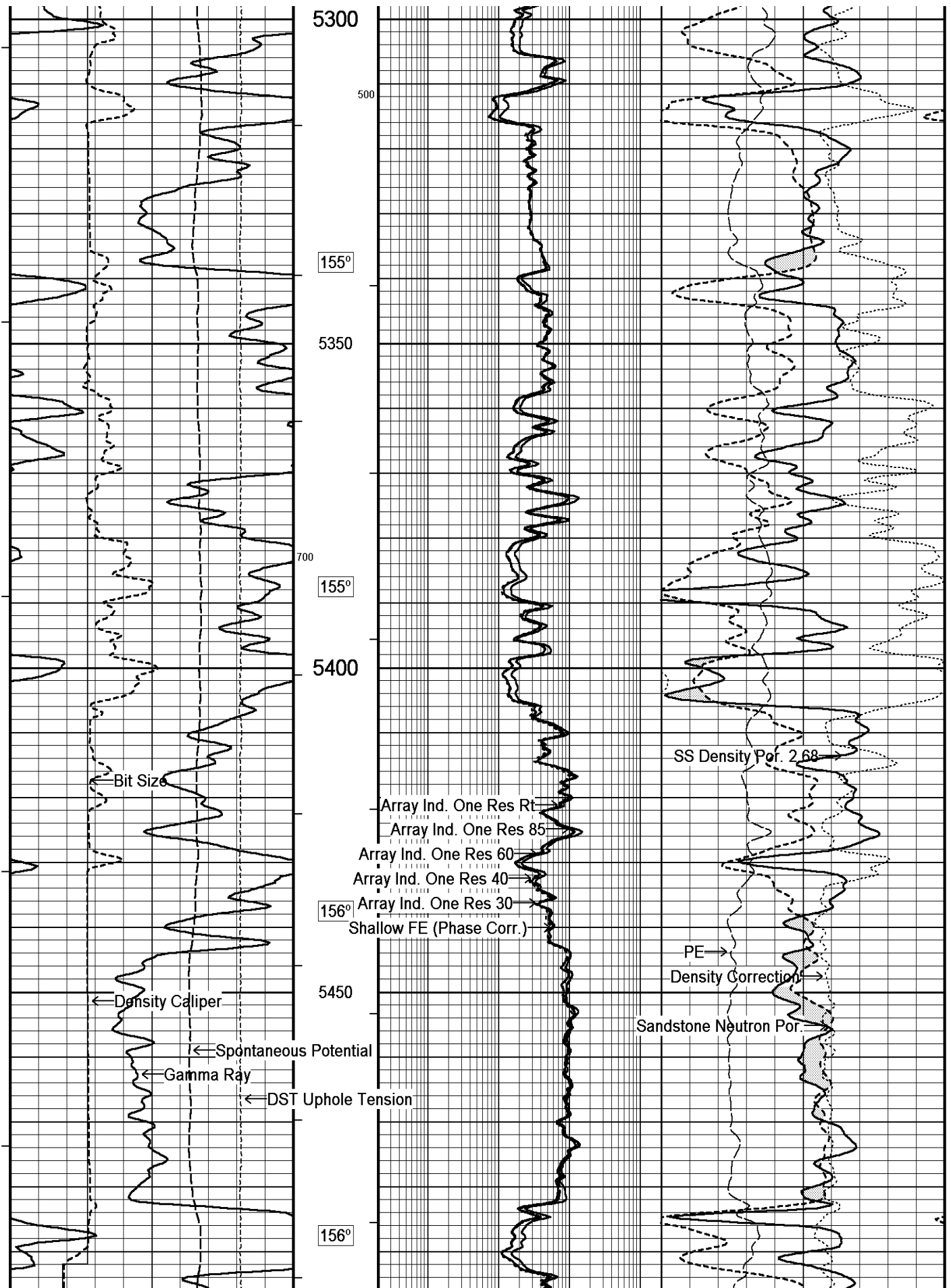


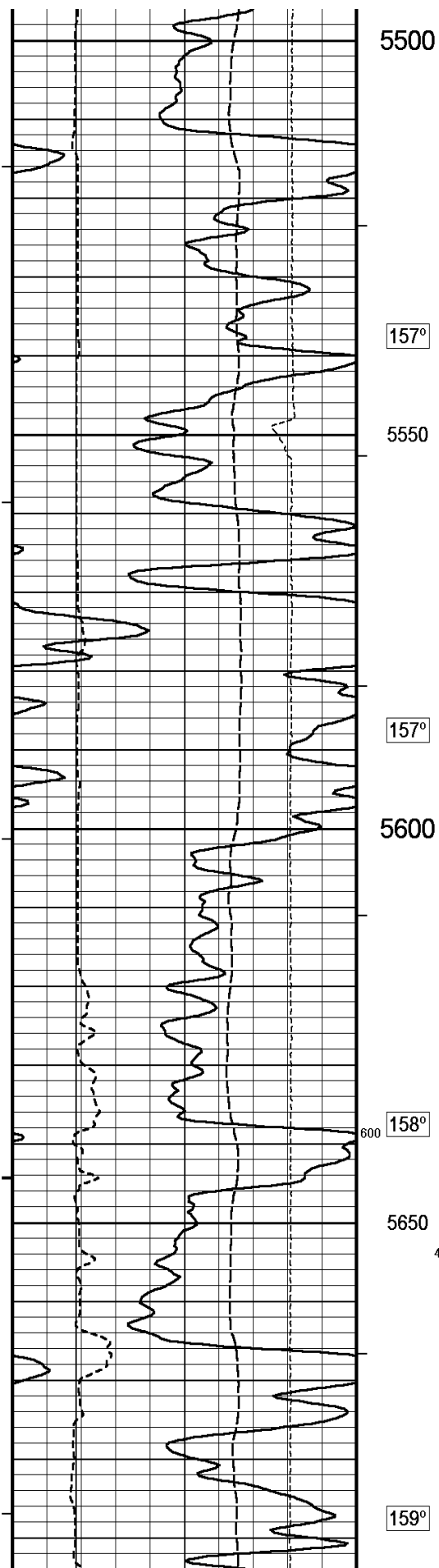












5500

157°

5550

157°

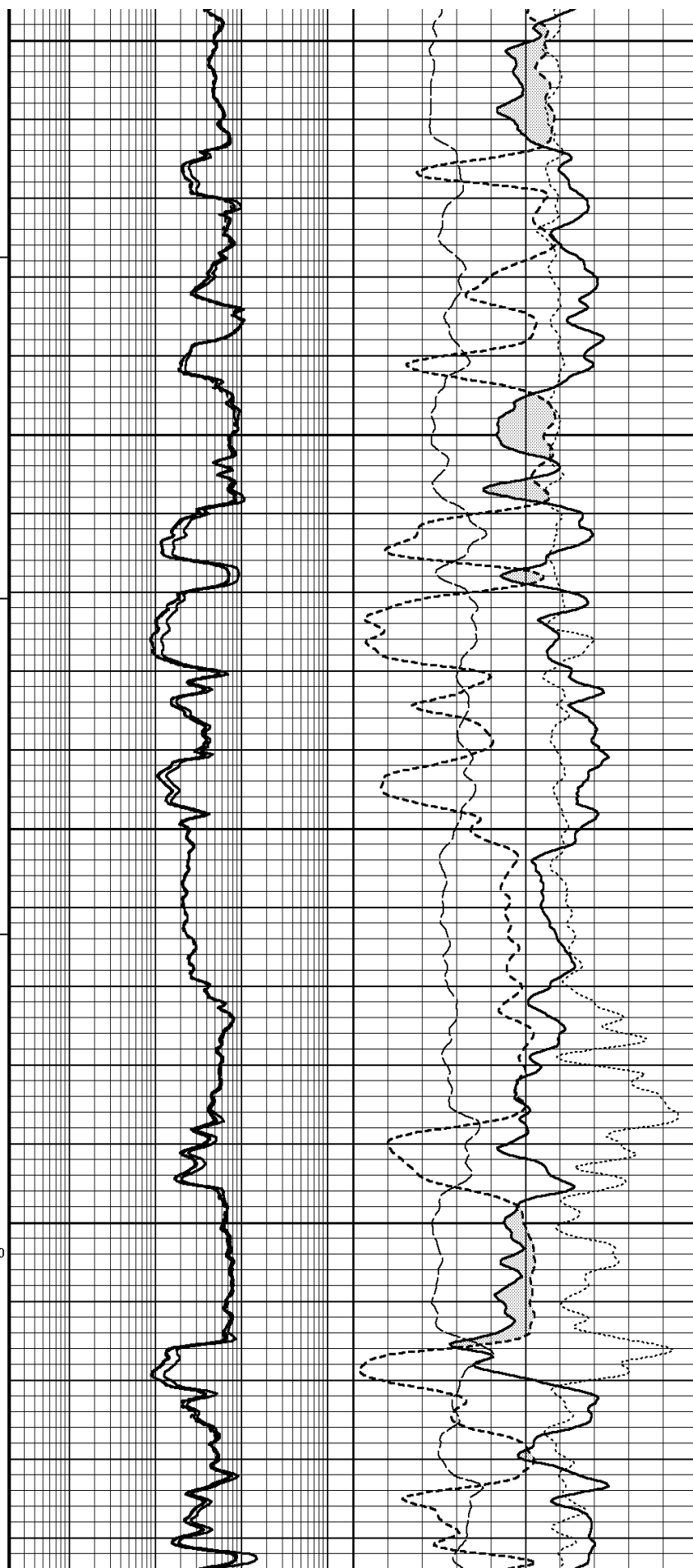
5600

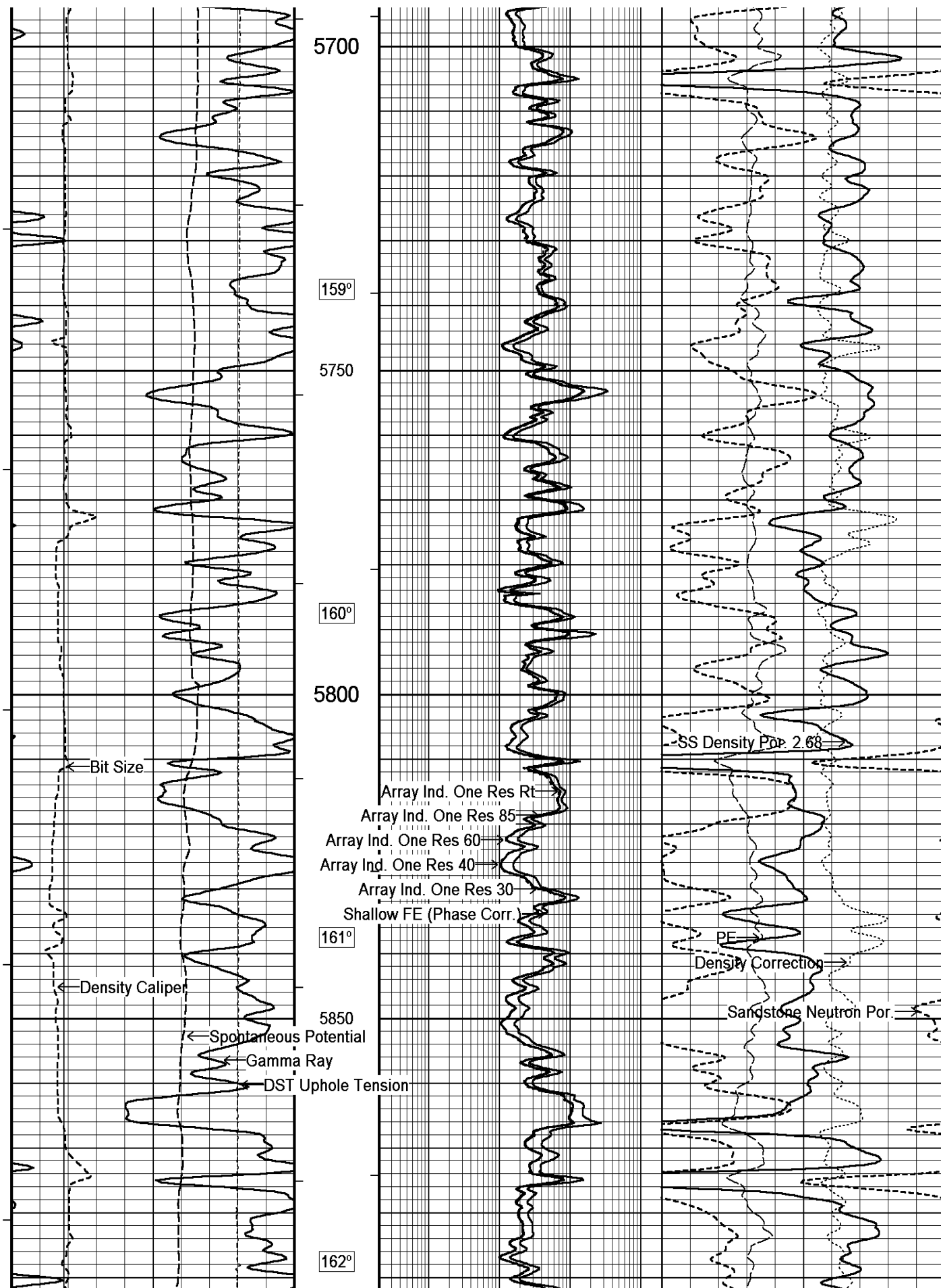
158°

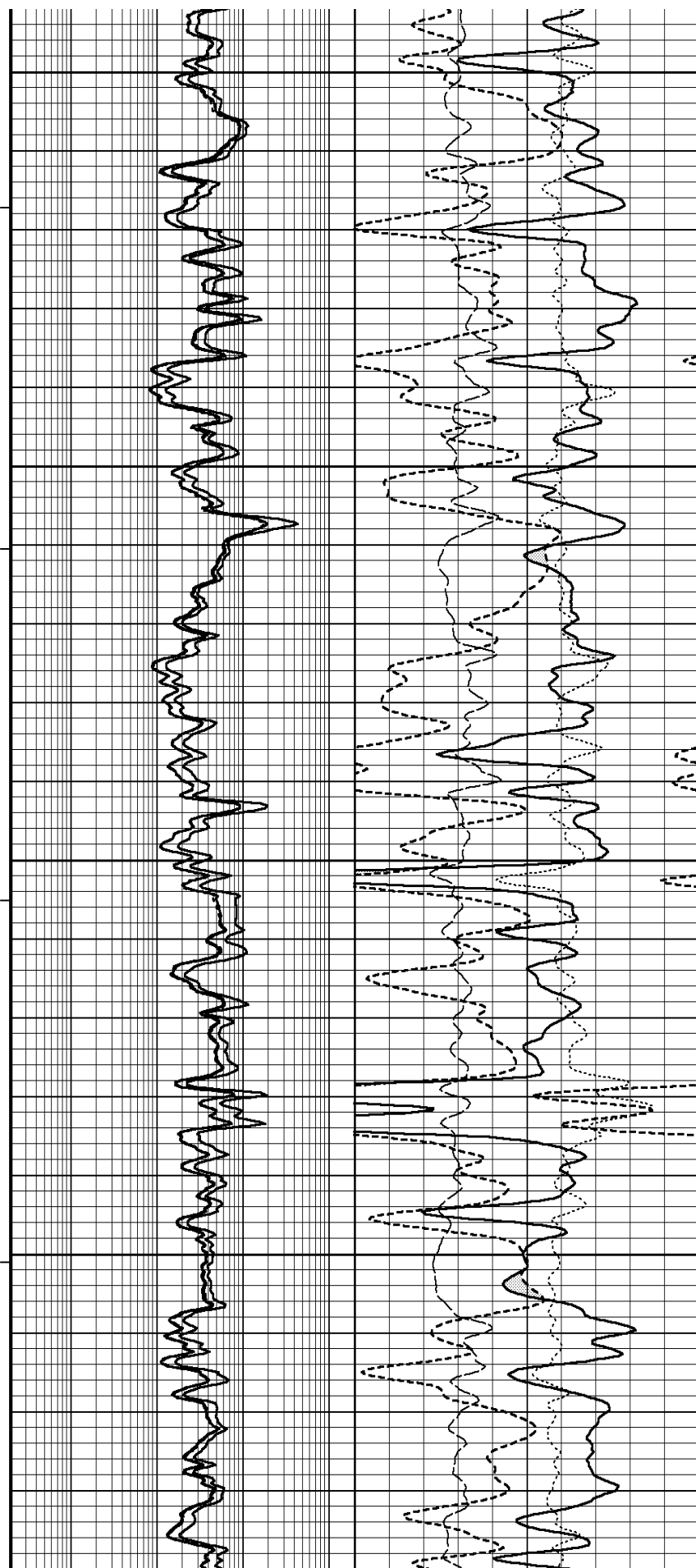
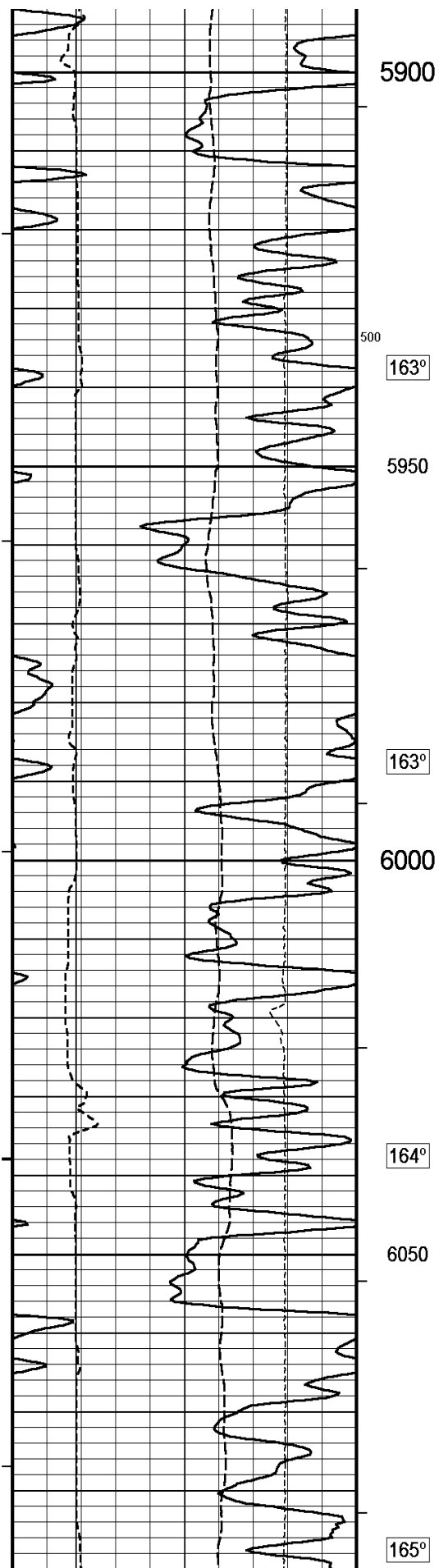
5650

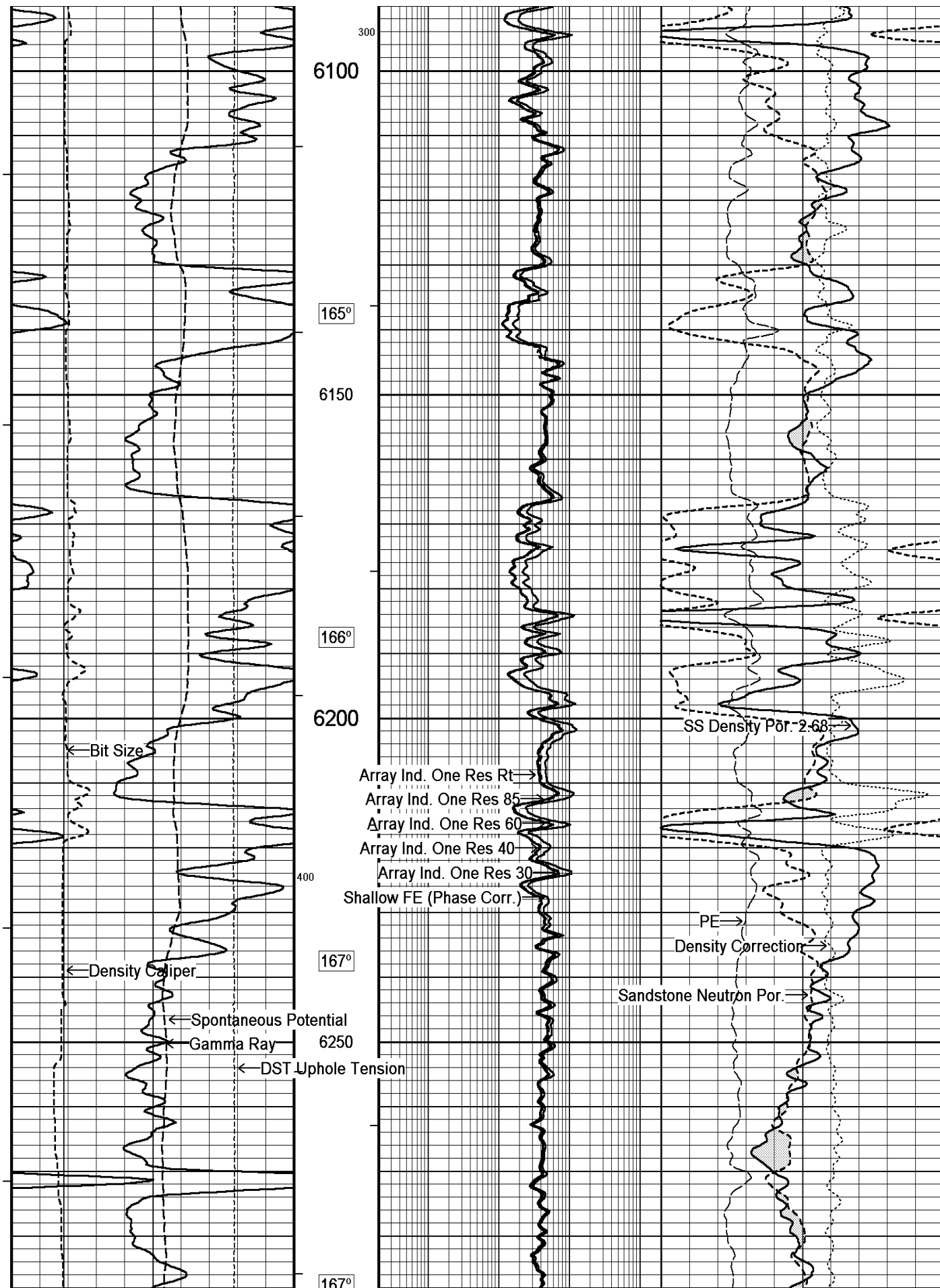
400

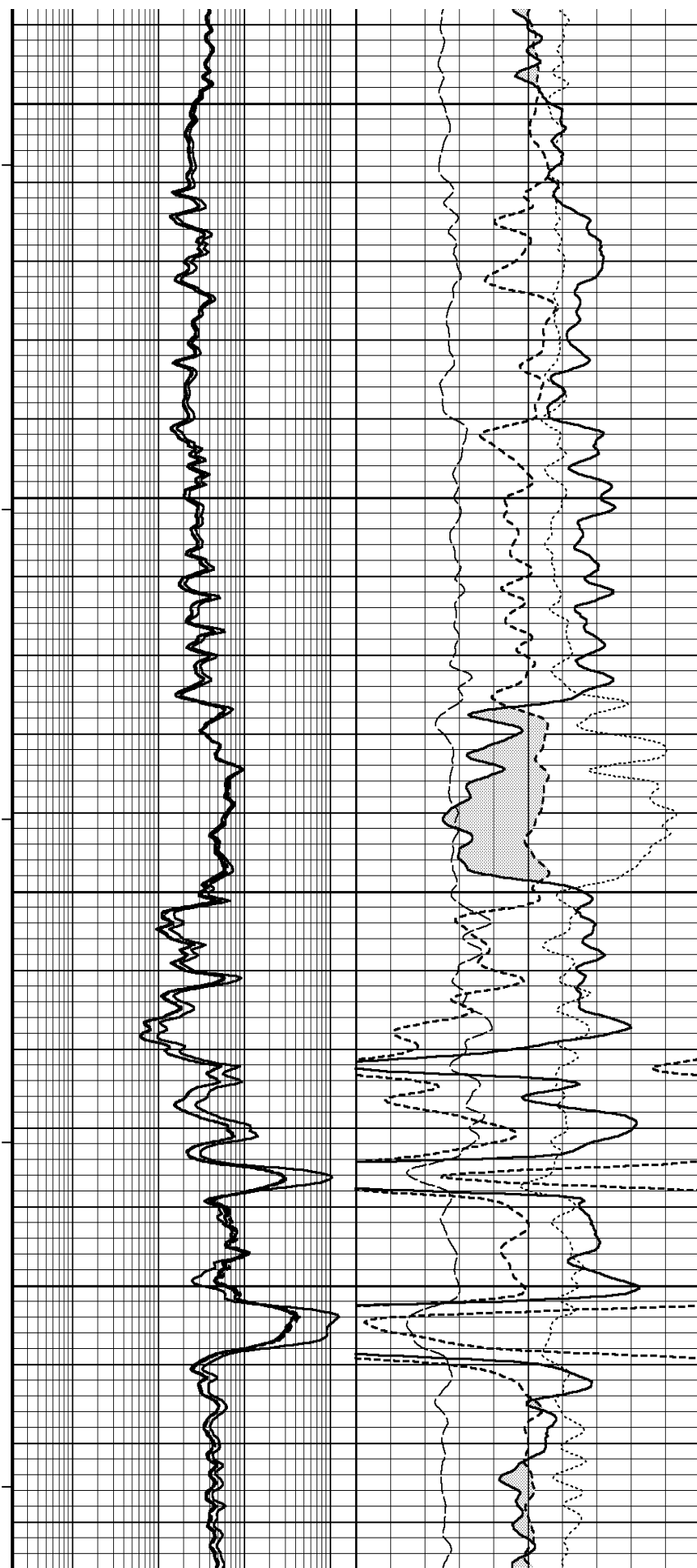
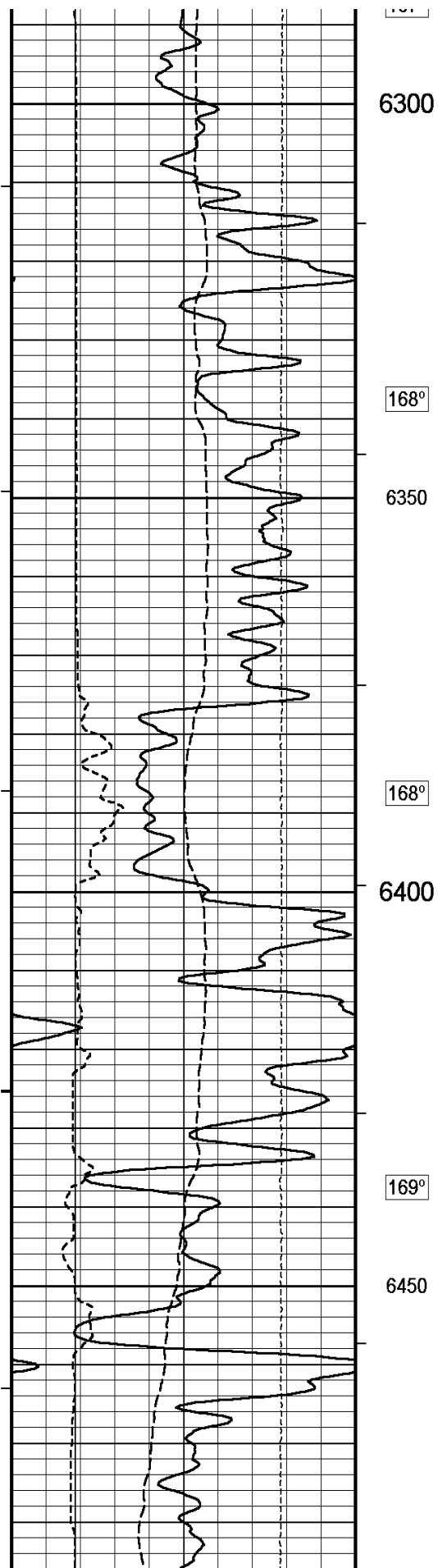
159°

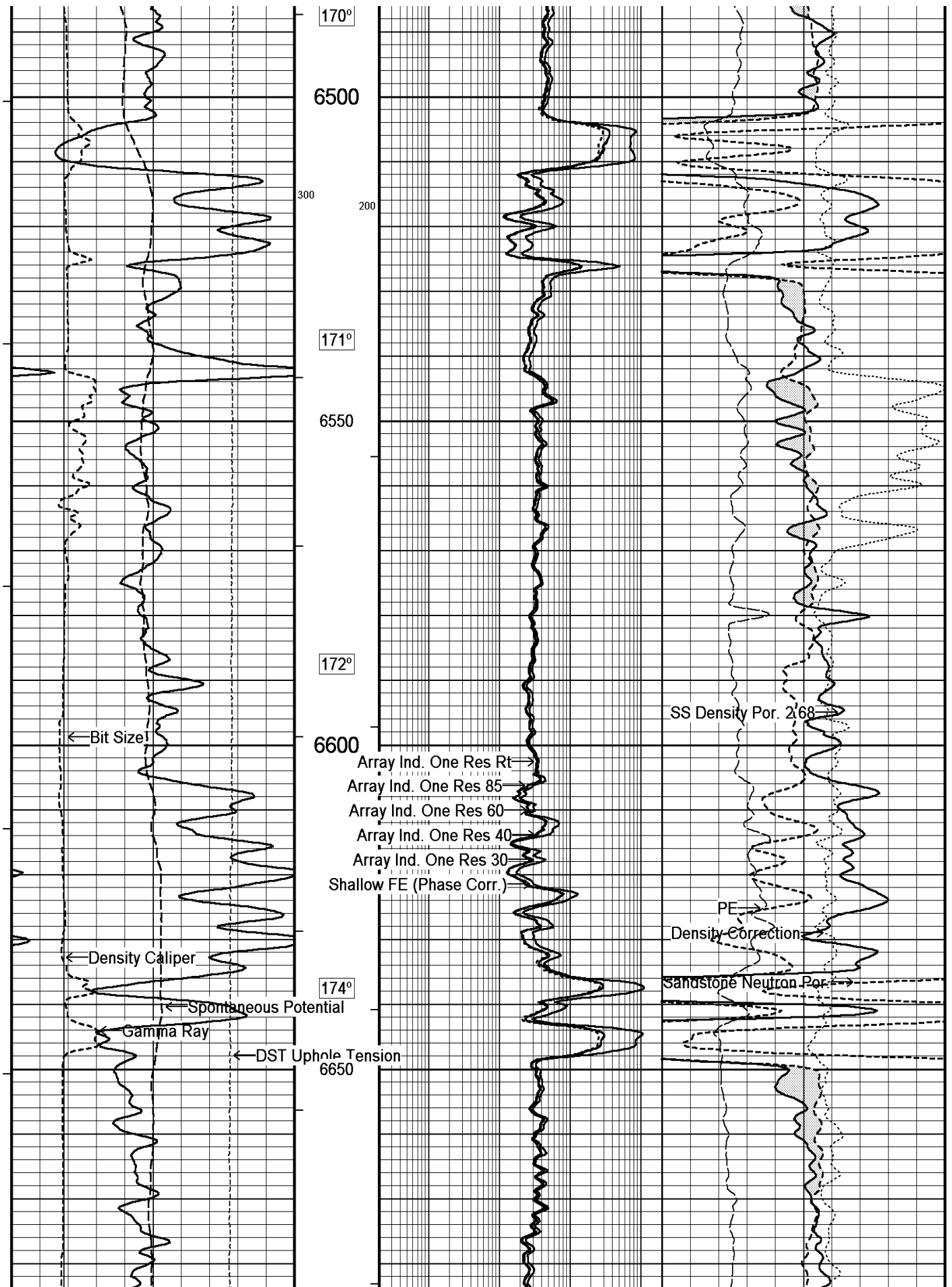


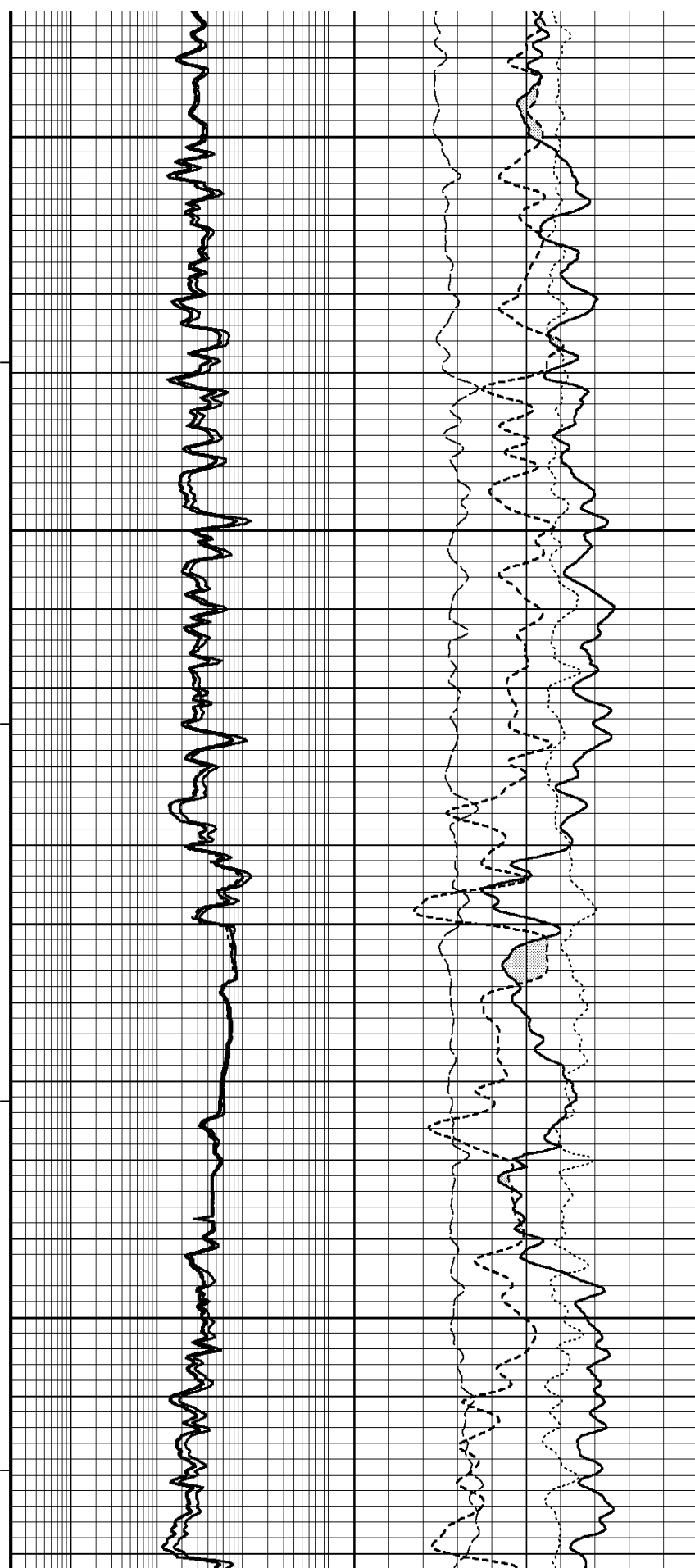
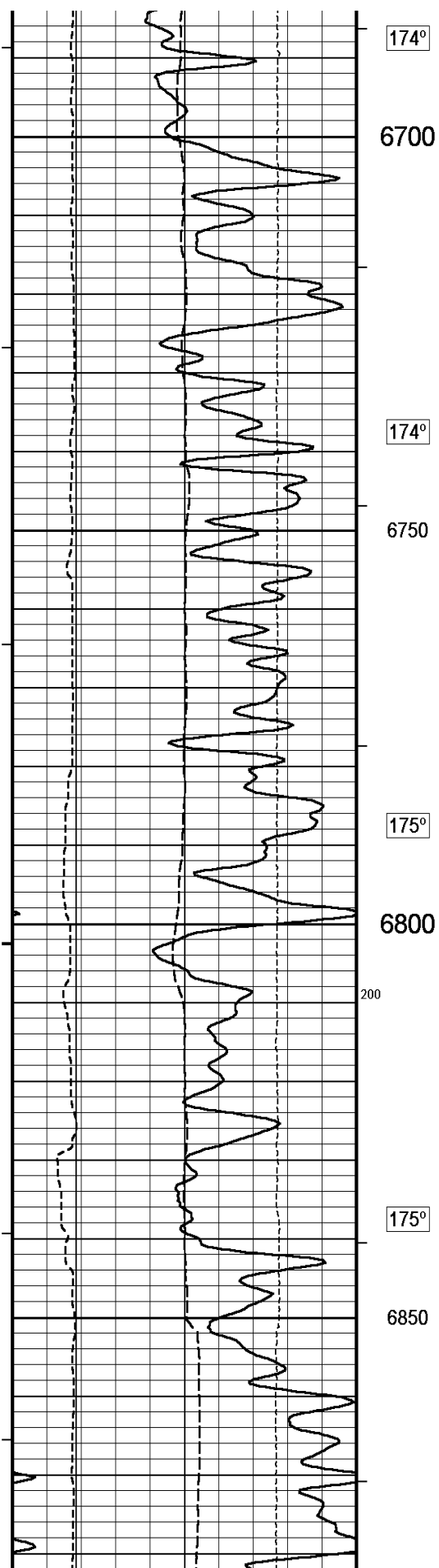


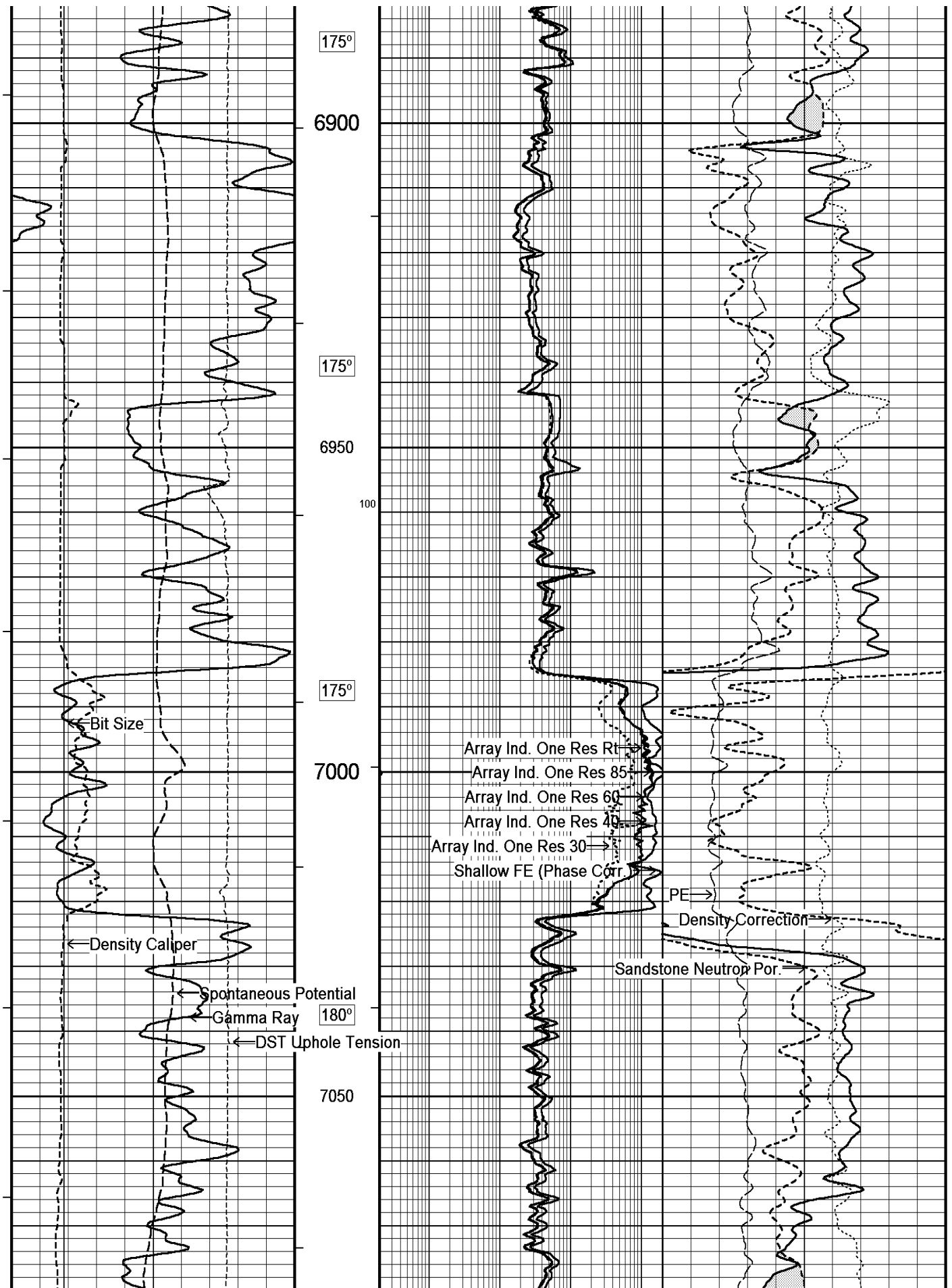


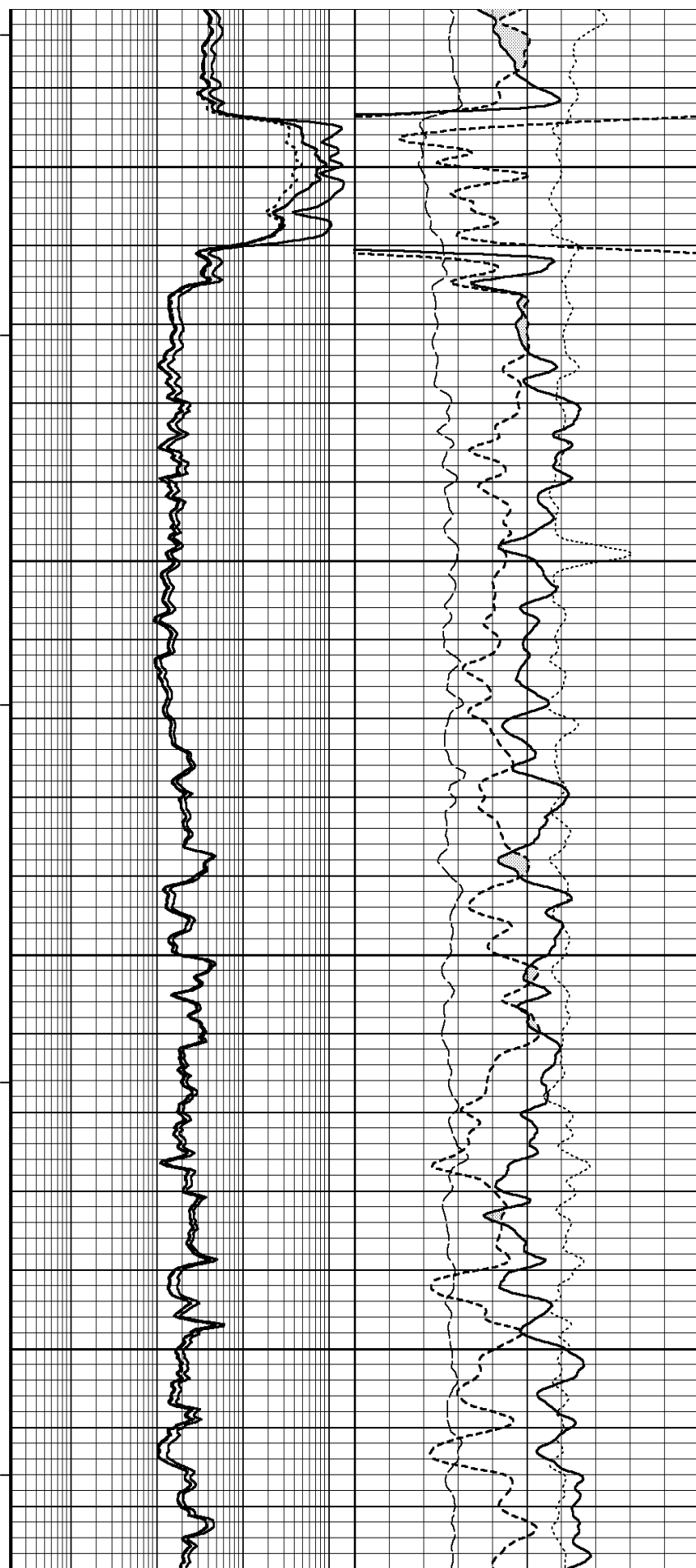
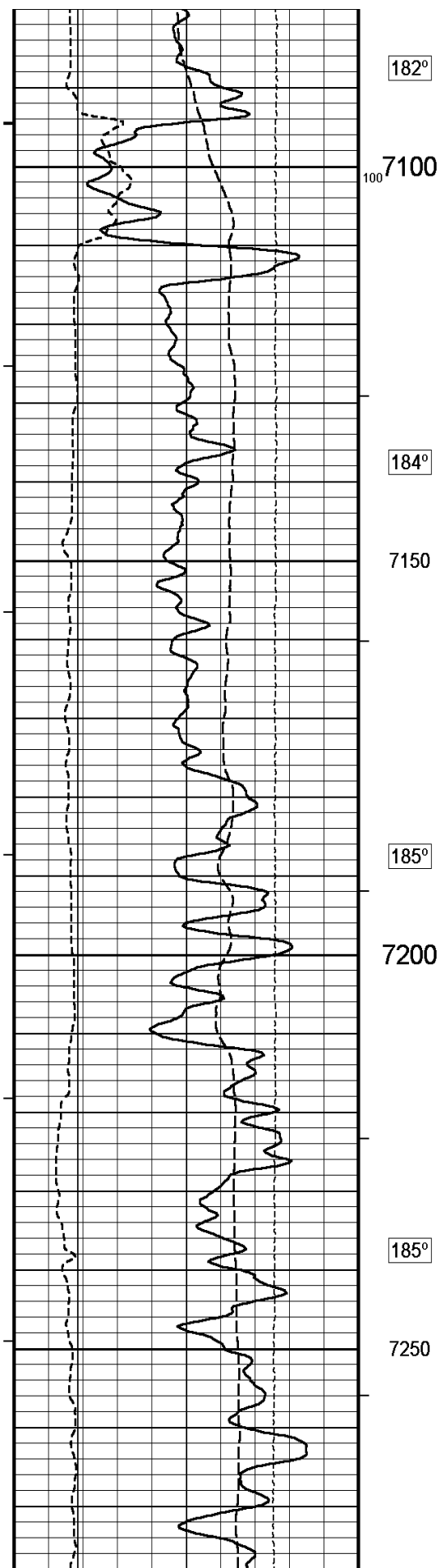


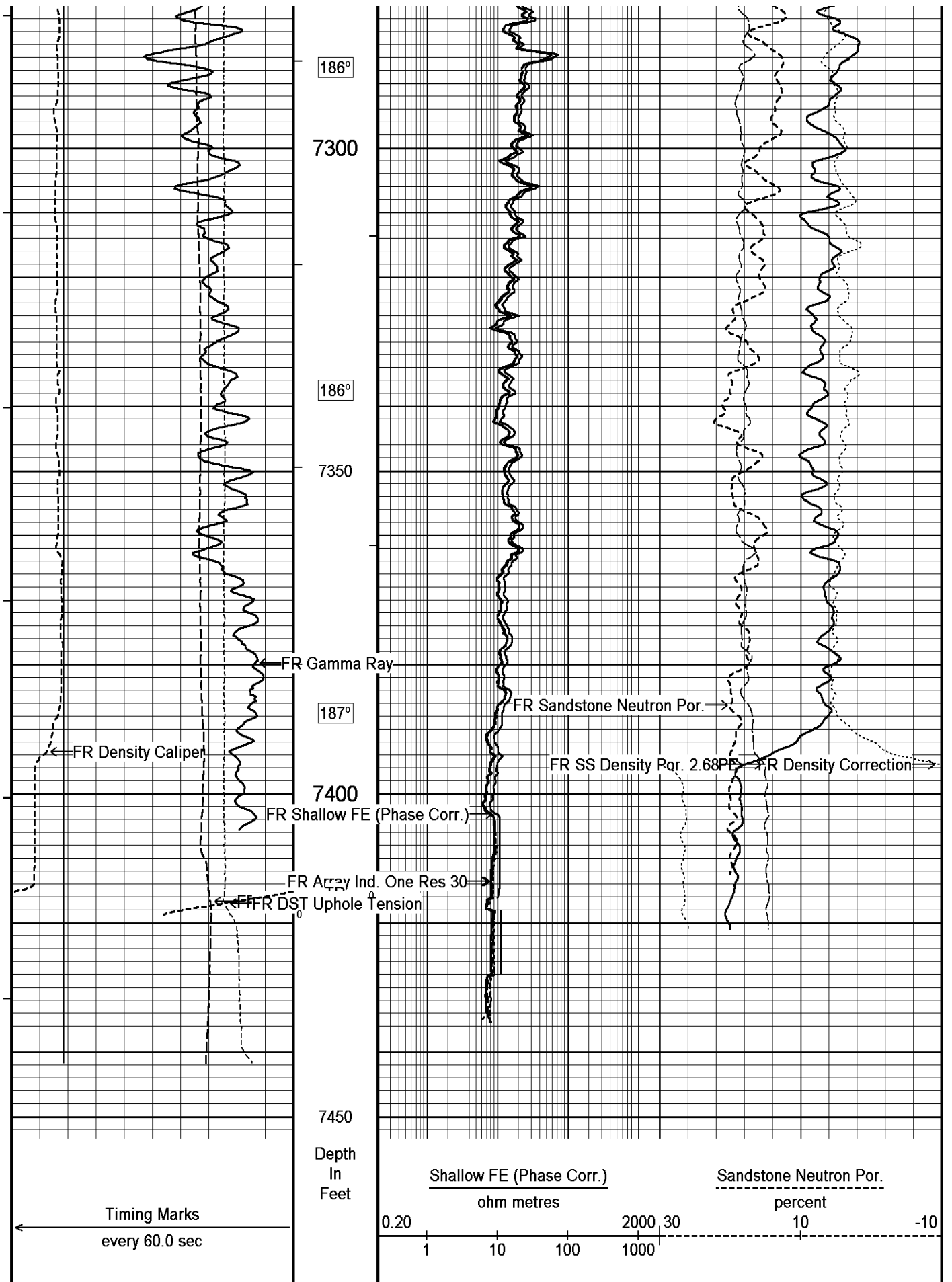


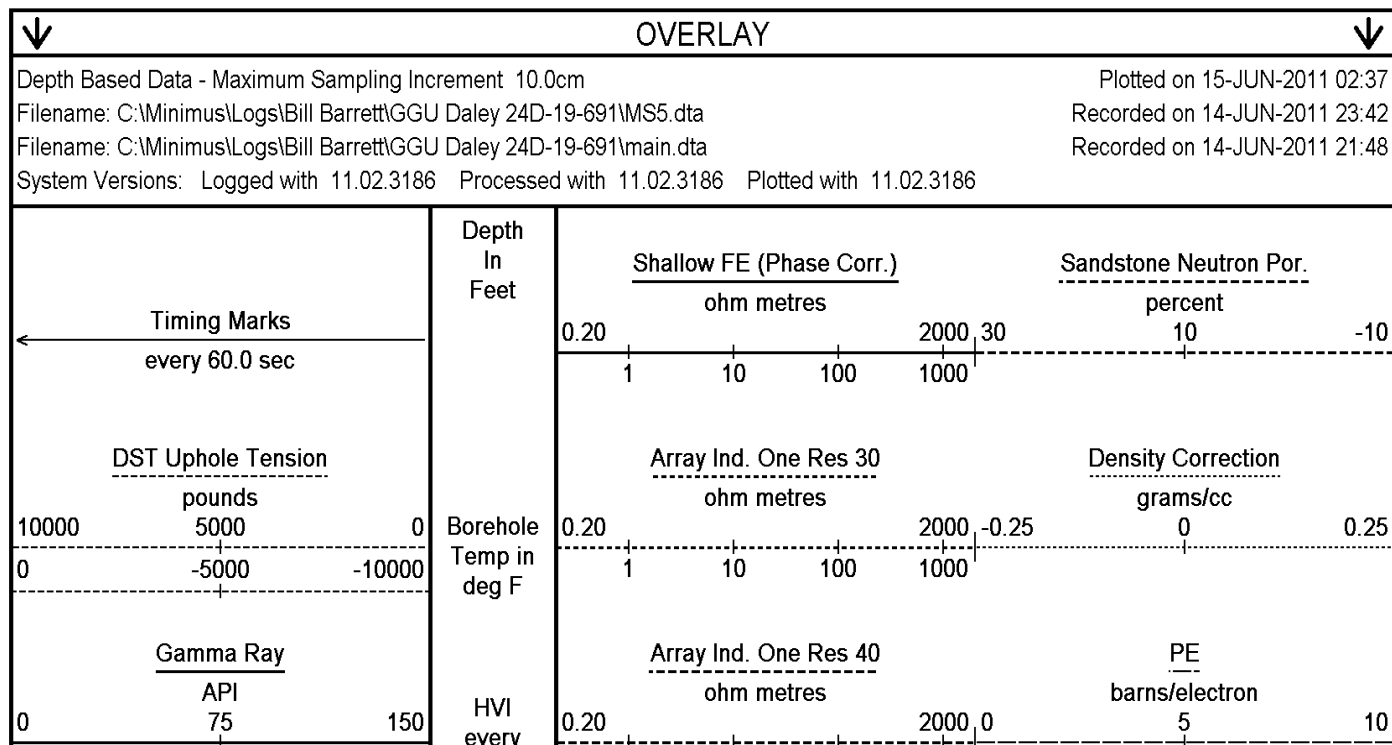
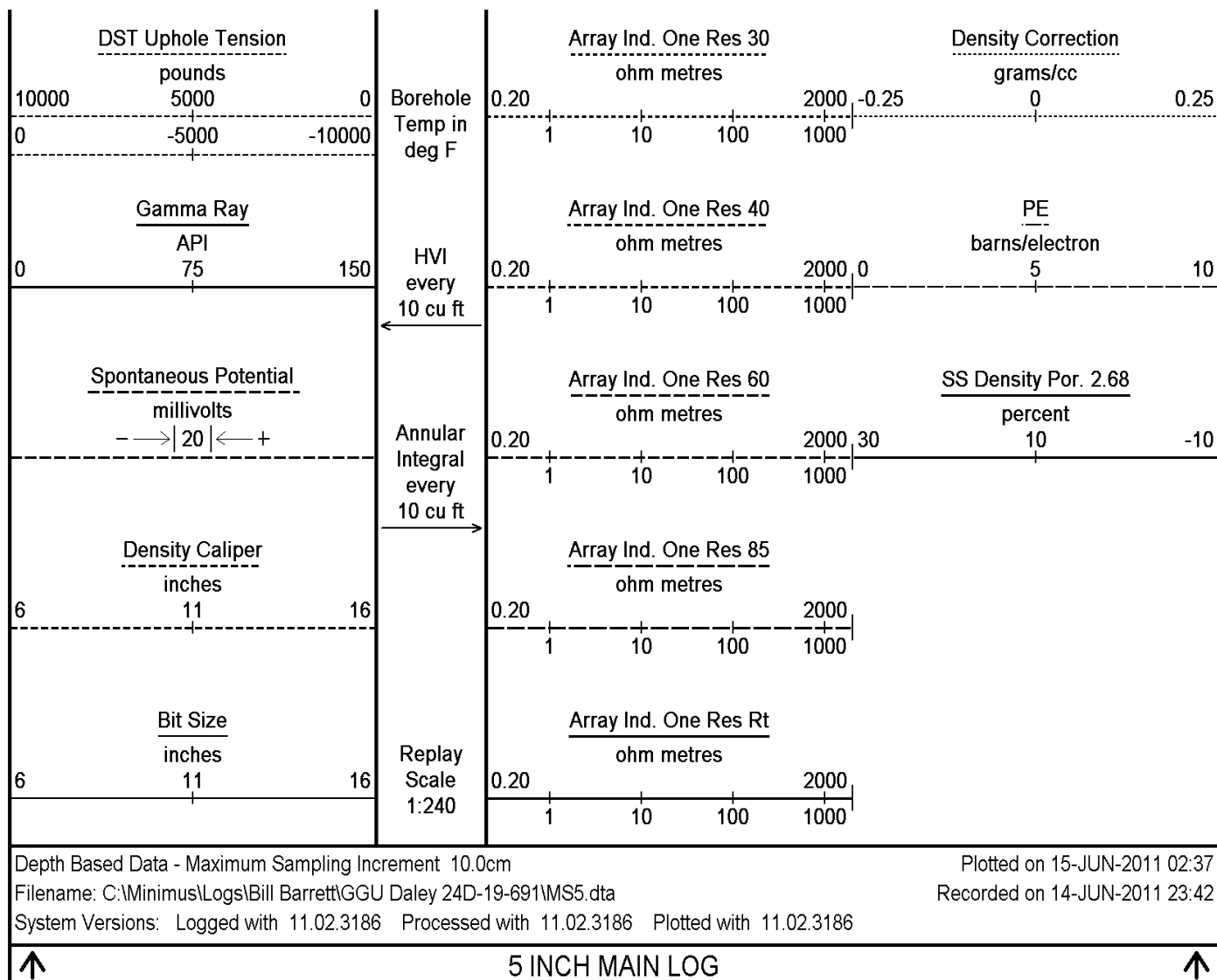


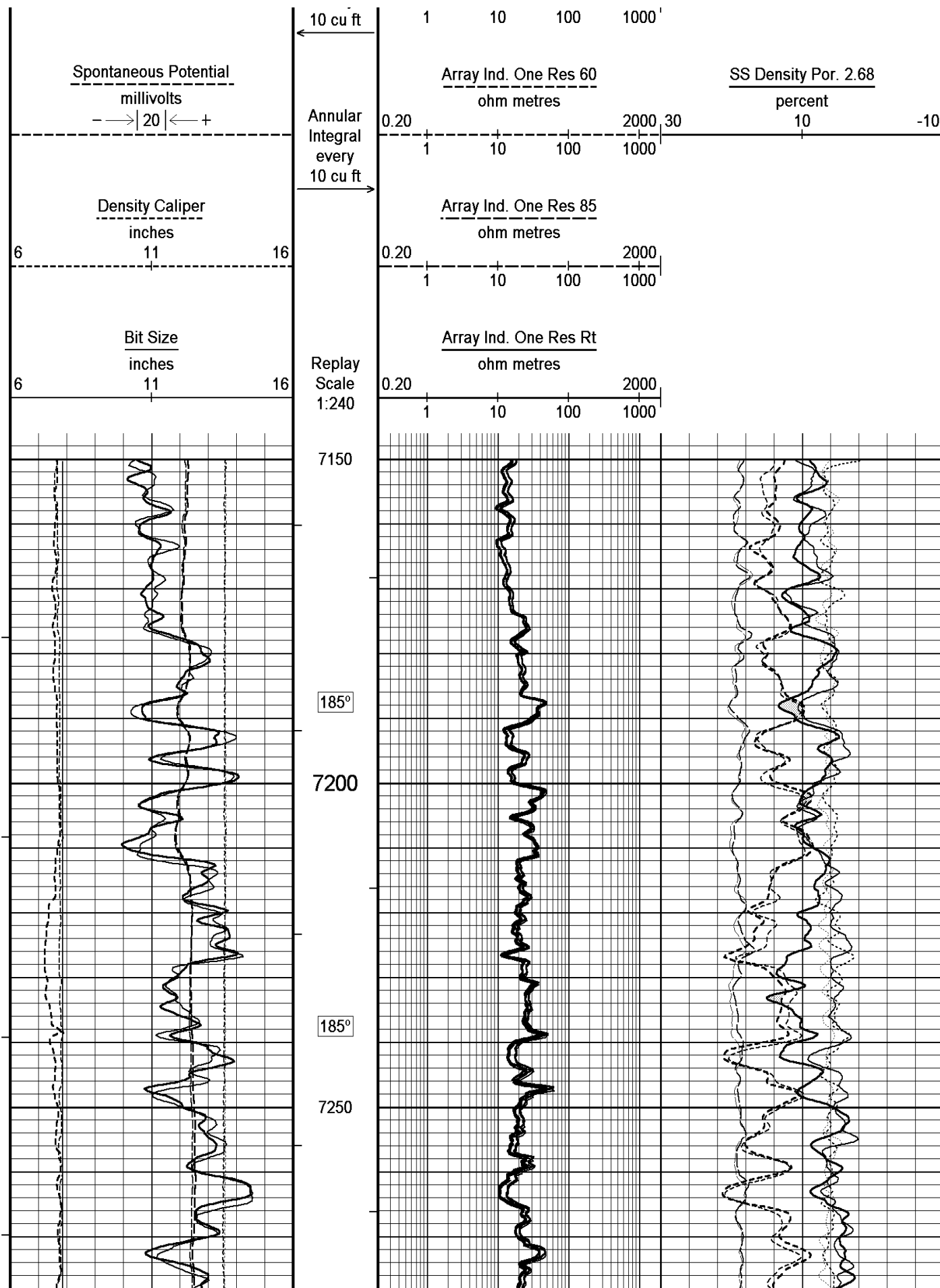


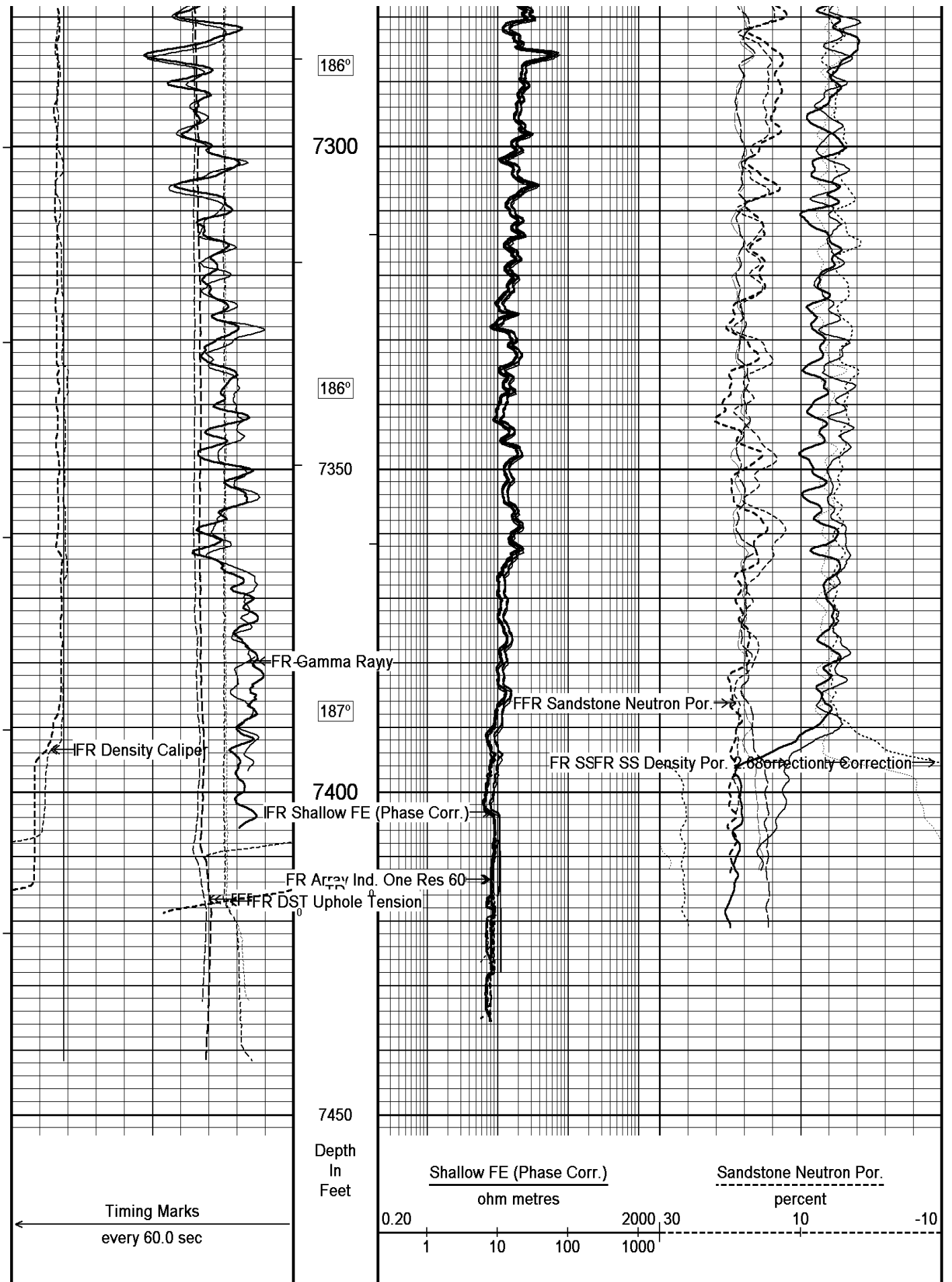


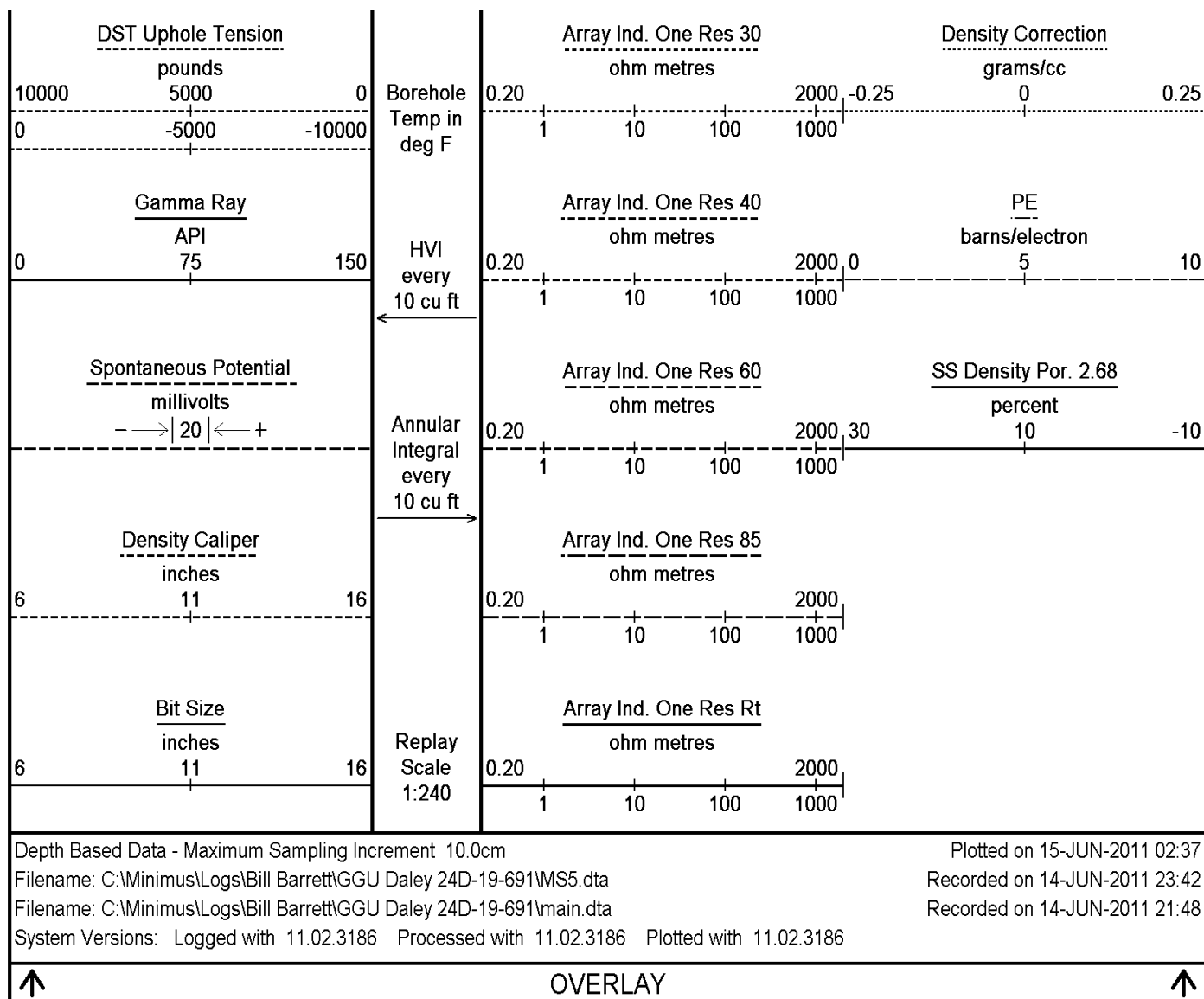












BEFORE SURVEY CALIBRATION		
C:\Minimus\Logs\Bill Barrett\GGU Daley 24D-19-691\MS5.dta		
General Constants All 000		Last Edited on 14-JUN-2011,19:34
General Parameters		
Mud Resistivity	3.370	ohm-metres
Mud Resistivity Temperature	67.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet 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	Sandstone Density Por.	
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-JUN-2011 20:46	
Reading No	Measured	Calibrated (lbs)			
1	14638.90	0.00			
2	15520.72	348.00			
High Resolution Temperature Calibration MCG-C 145				Field Calibration on 14-JUN-2011,18:43	
	Measured	Calibrated(Deg F)			
Lower	50.00	50.00			
Upper	75.00	75.00			
High Resolution Temperature Constants MCG-C 145				Last Edited on 24-NOV-2009,08:49	
Pre-filter Length	11				
SP Calibration MCG-C 145				Field Calibration on 14-JUN-2011,18:43	
	Measured	Calibrated (mV)			
Reference 1	103.7	100.1			
Reference 2	-96.4	-100.1			
Gamma Calibration MCG-C 145				Field Calibration on 12-JUN-2011 13:38	
	Measured	Calibrated (API)			
Background	73	51			
Calibrator (Gross)	753	531			
Calibrator (Net)	680	480			
Gamma Constants MCG-C 145				Last Edited on 10-JUN-2011,13:54	
Gamma Calibrator Number	GRC 112				
Mud Density	1.00	gm/cc			
Caliper Source for Processing	Density Caliper				
Tool Position	Eccentred				
Concentration of KCl	0.00	kppm			
Micro Normal and Micro Inverse Calibration MDN-B.A 191				Base Calibration on 3-MAY-2007 19:21 Field Check on	
Base Calibration					
		Measured	Calibrated (ohm-m)		
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2	
Micro Normal	8.2	41.0	10.0	50.0	
Micro Inverse	8.2	41.2	10.0	50.0	
Channel	Base Check (ohm-m)		Field Check (ohm-m)		
Micro Normal	0.0		0.0		
Micro Inverse	0.0		0.0		
Micro Normal and Micro Inverse Constants MDN-B.A 191				Last Edited on 13-FEB-2007,11:14	
Pad Type			0		
Micro Normal K Factor			1.0000		
Micro Inverse K Factor			1.0000		
Standoff Offset			N/A	inches	
Neutron Calibration MDN-B.A 191				Base Calibration on 31-MAY-2011,15:28 Field Check on 14-JUN-2011 18:49	
Base Calibration					
		Measured	Calibrated (cps)		
	Near	Far	Near	Far	
	2846	88	3714	110	
Ratio	32.378		33.764		
Field Calibrator at Base			Calibrated (cps)		
			1649	2435	

Ratio	0.677			
Field Check	Calibrated (cps)			
	1647	2421		
Ratio	0.680			
Neutron Constants MDN-B.A 191			Last Edited on 14-JUN-2011,19:35	
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			
FE Calibration MFE-B.A 220			Base Calibration on 31-MAY-2011 15:13 Field Check on 14-JUN-2011,19:00	
Base Calibration	Measured	Calibrated (ohm-m)		
Reference 1	0.0	0.0		
Reference 2	964.2	126.8		
Base Check		280.9		
Field Check		281.1		
FE Constants MFE-B.A 220			Last Edited on 14-JUN-2011,19:36	
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	1.0	inches		
High Resolution Temperature Calibration MAI-B.J 362			Field Calibration on 17-NOV-2010,12:11	
	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 31-MAY-2011,10:53 Field Check on 14-JUN-2011,19:04	
Base Calibration				
Test Loop Calibration				
Channel	Low	High	Low	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)	Field Check (mmho/m)
	Low High	Low High
1	0.0 0.0	15.1 3874.2
2	0.0 0.0	30.6 3606.0
3	0.0 0.0	28.6 3069.5
4	0.0 0.0	19.8 2079.3
Deep	0.0 0.0	17.6 1954.3
Medium	0.0 0.0	41.3 4077.4
Shallow	0.0 0.0	45.7 5401.1
Array Temperature	0.0	60.4 Deg F

Induction Constants MAI-B.J 362

Last Edited on 14-JUN-2011,19:37

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	1.00 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 31-MAY-2011 13:44

Field Calibration on 14-JUN-2011,19:36

Base Calibration	
Reading No	Measured Calibrator Size (in)
1	15568 3.99
2	24479 5.96
3	33312 7.99
4	41344 9.86
5	50608 11.93

6	N/A	N/A
Field Calibration	Measured Caliper (in) 7.90	Actual Caliper (in) 7.99
Photo Density Calibration MPD-C.A 215		Base Calibration on 31-MAY-2011 14:07 Field Check on 14-JUN-2011 18:56
Density Calibration		
Base Calibration	Measured	Calibrated (sdu)
	Near Far	Near Far
Reference 1	44533 15292	52994 19128
Reference 2	21220 2510	25185 2558
Field Check at Base	1306.6 1388.9	
Field Check	1310.9 1388.8	
PE Calibration		
Base Calibration	Measured	Calibrated
	WS WH Ratio	Ratio
Background	239 1166	
Reference 1	14608 44345 0.333	0.309
Reference 2	5934 21072 0.286	0.274
Field Check at Base	238.8 1165.7	
Field Check	236.9 1171.3	
Density Constants MPD-C.A 215		Last Edited on 14-JUN-2011,19:36
Density Source Id	2859GW	
Nylon Calibrator Number	DNC-E-527	
Aluminium Calibrator Number	DAC-D-527	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.28	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\Bill Barrett\GGU Daley 24D-19-691\MS5.dta

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 508 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

Compact Comms Gamma
MCG-C 145 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Neutron
MDN-B.A 191 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

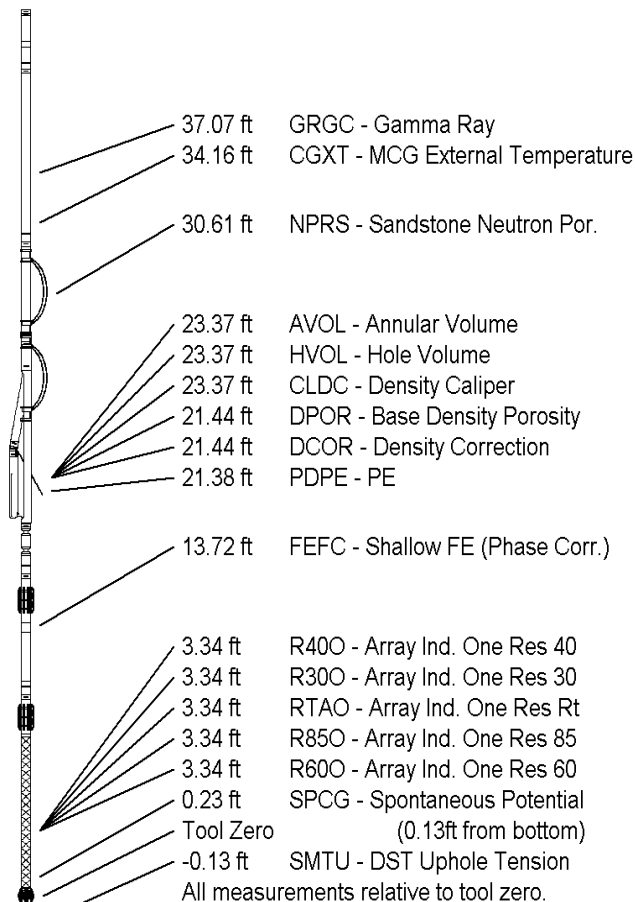
Compact Density/Caliper
MPD-C.A 215 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 529 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-B.A 220 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.J 362 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 44.66 ft Weight: 348.3 lb



COMPANY	BILL BARRETT CORPORATION
WELL	GGU DALEY 24D-19-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	5847.00	feet	First Reading	7414.00	
Elevation Drill Floor	5846.00	feet	Depth Driller	7420.00	feet
Elevation Ground Level	5824.00	feet	Depth Logger	7417.00	feet



Weatherford®

COMPACT TRIPLE COMBO
QUICKLOOK
LOG

