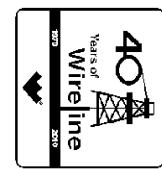




**COMPACT TRIPLE COMBO
QUICKLOOK
LOG**



COMPANY **BILL BARRETT CORPORATION**
 WELL **CB-TG LAND 21D-20-692**
 FIELD **MAMM CREEK**
 PROVINCE/COUNTY **GARFIELD**
 COUNTRY/STATE **U.S.A. / COLORADO**
 LOCATION **SHL: 612' FNL & 2585' FEL**
BHL: 105' FNL & 1972' FWL

SEC **20** TWP **6S** RGE **92W** Other Services

API Number **05-045-19759**
 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: **KB 5553.00**
DF 5552.00
GL 5530.00

Date	03-JULY-2011	
Run Number	ONE	
Depth Driller	7770.00	feet
Depth Logger	7766.00	feet
First Reading	7763.00	
Last Reading	809.00	
Casing Driller	813.00	feet
Casing Logger	809.00	feet
Bit Size	7.875	inches
Hole Fluid Type	LSND	
Density / Viscosity	10.50 lb/USg	55.00 CP
PH / Fluid Loss	9.80	7.60 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	1.81 @103.0	ohm-m
Rmf @ Measured Temp	1.28 @103.0	ohm-m
Rmc @ Measured Temp	2.17 @103.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.865 @195.0	ohm-m
Time Since Circulation	7 HOURS	
Max Recorded Temp	205.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13045	GD JCT
Recorded By	N. TAYLOR	
Witnessed By	J. BOYD	

BOREHOLE RECORD

Last Edited: 03-JUL-2011 10:32

Bit Size inches	Depth From feet	Depth To feet
8.750	813.00	4795.00
7.880	4795.00	7770.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	813.00	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

2.08 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.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.93" (9 5/8", 36 LB/FT CASING)

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING =2670CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1190CU.FT.

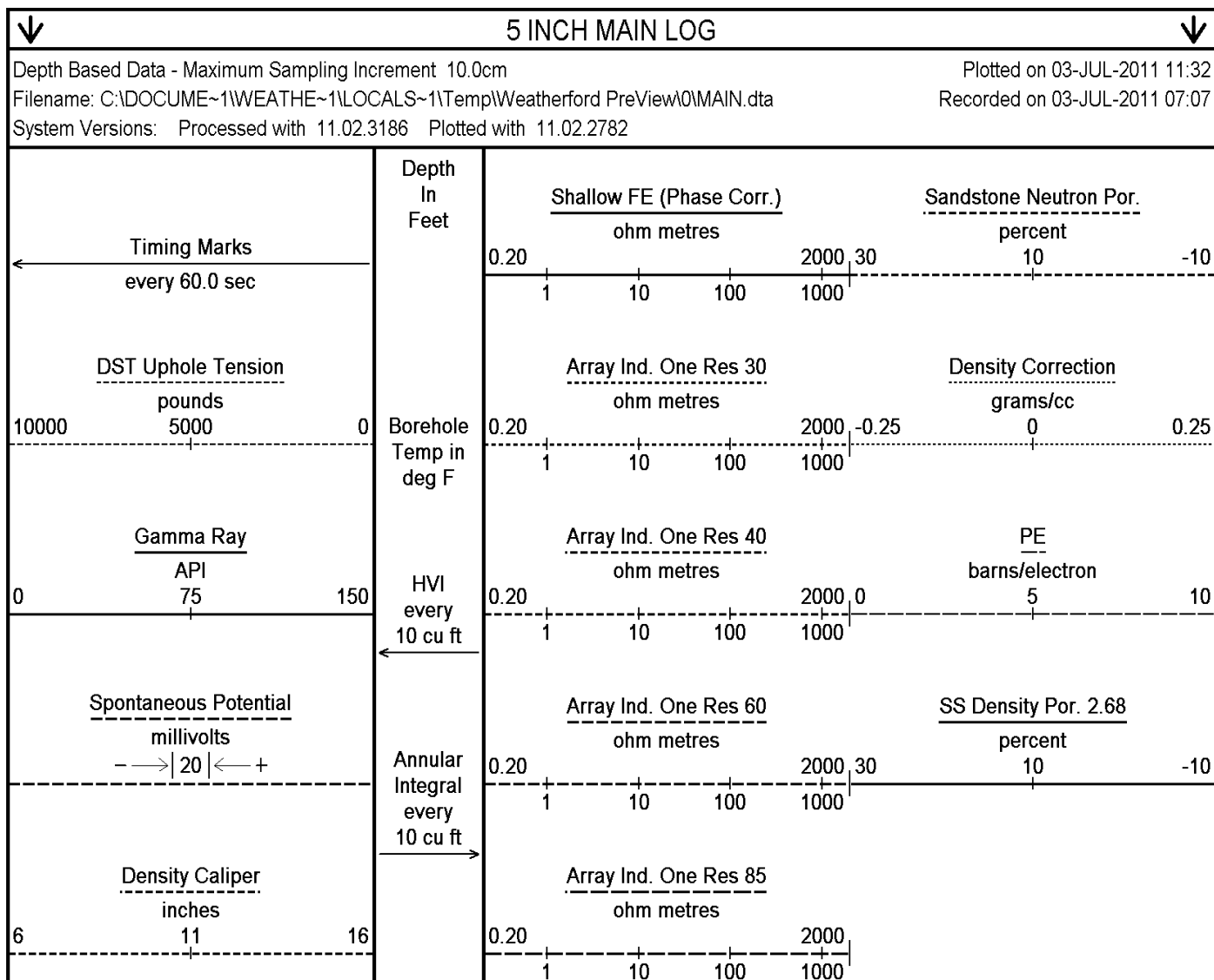
SERVICE ORDER: #3531820

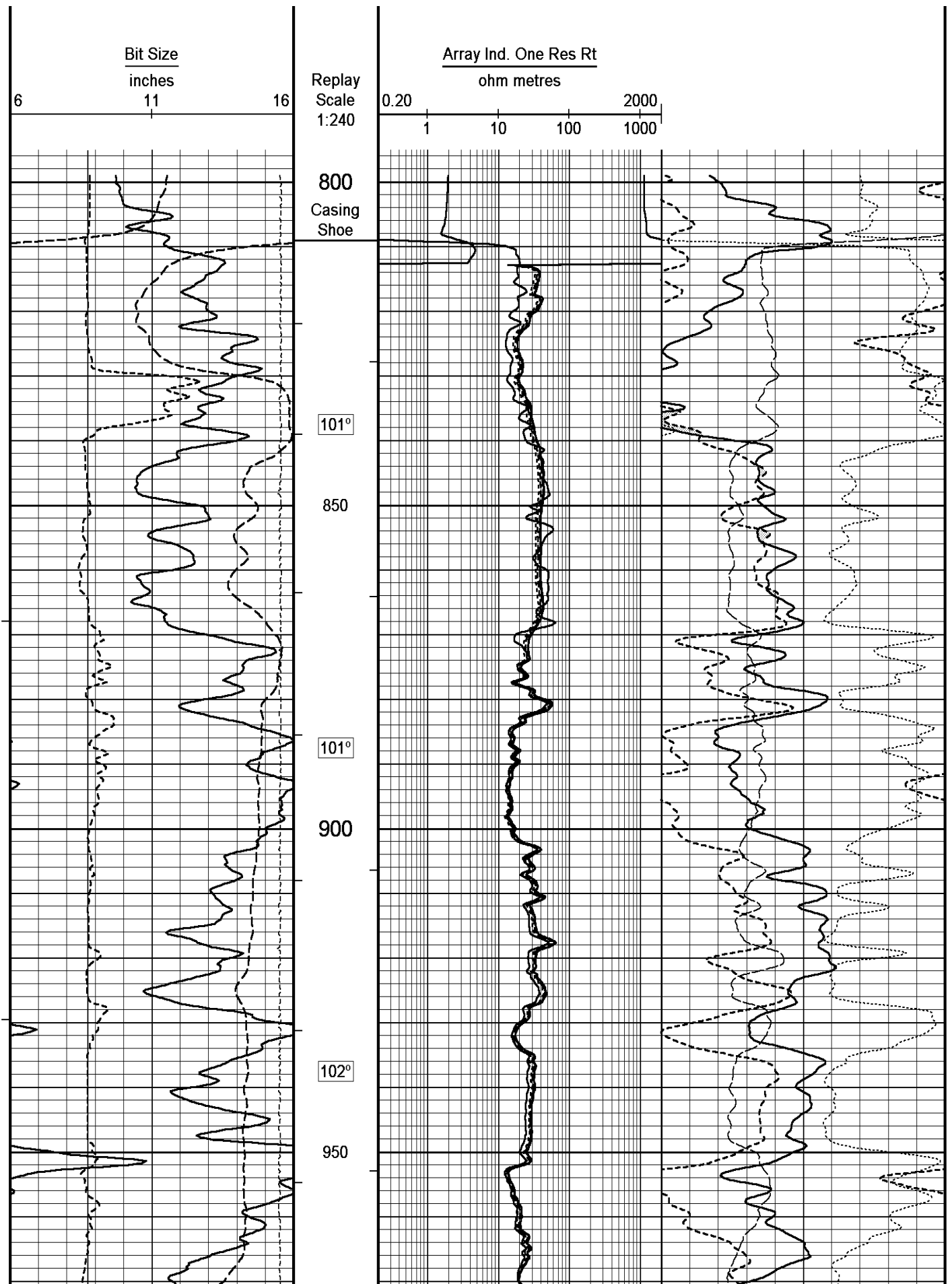
RIG: NABORS #37

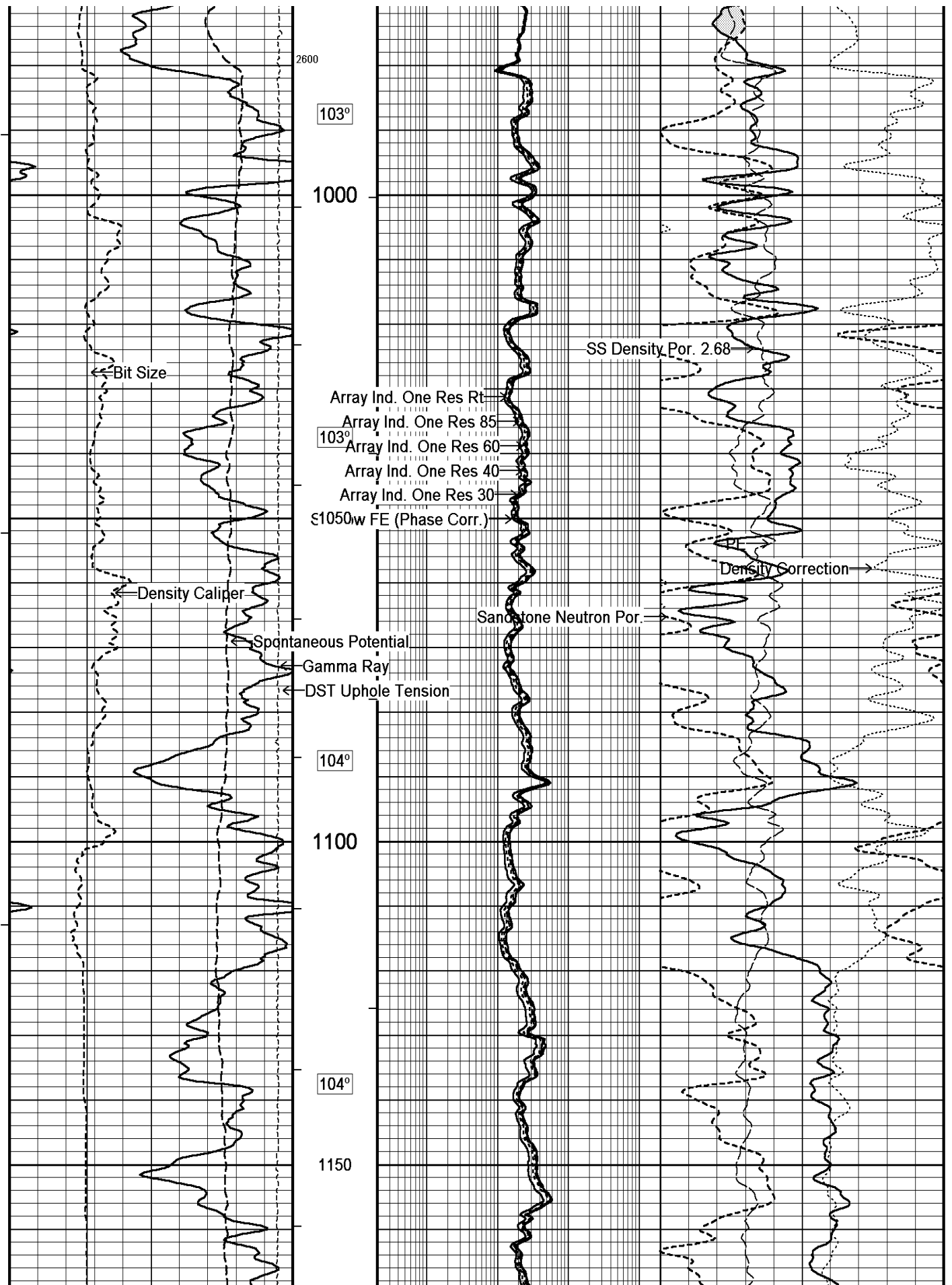
ENGINEER(S): N. TAYLOR, D. NAASZ

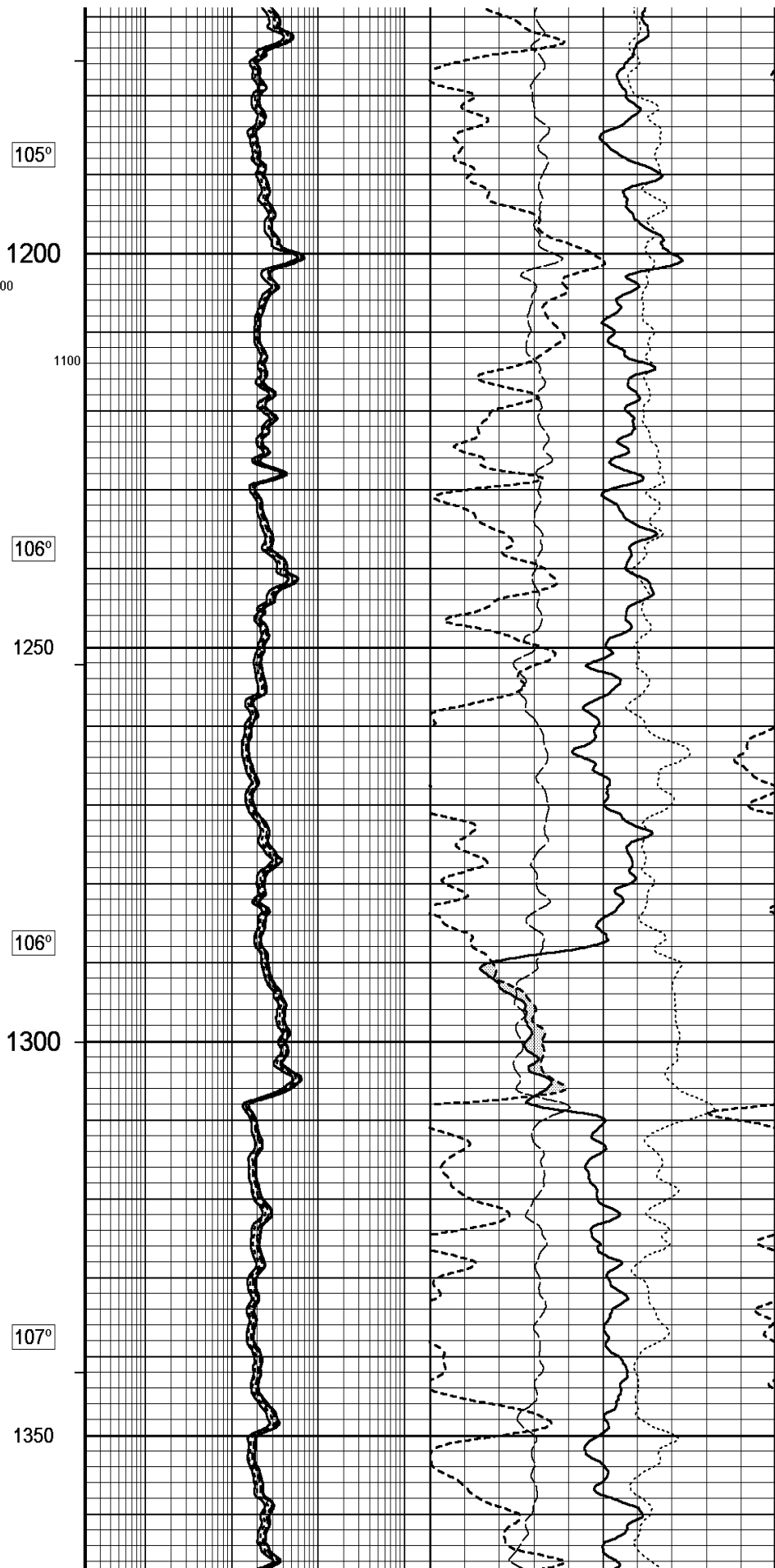
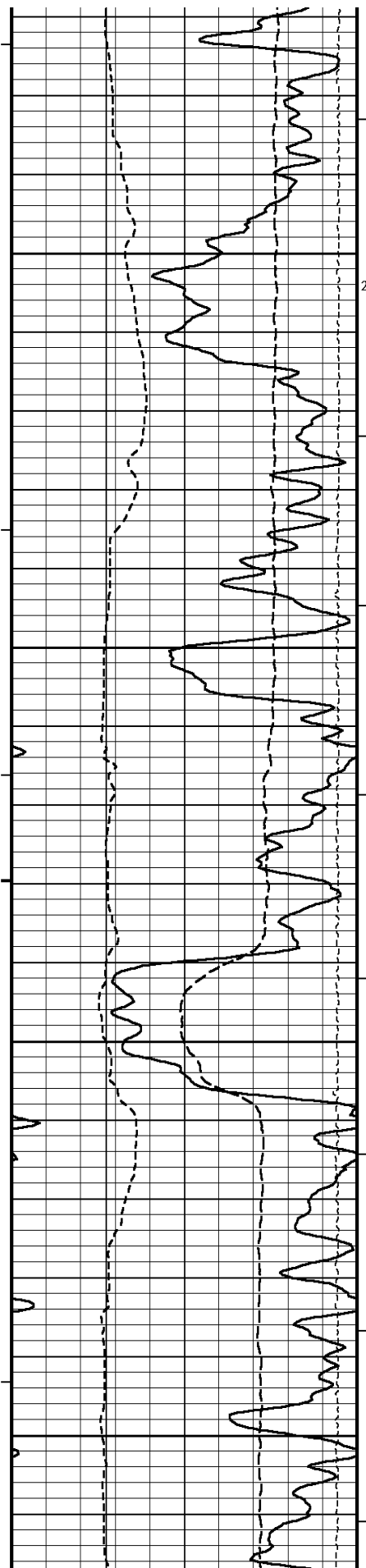
OPERATOR(S): S.KAISER

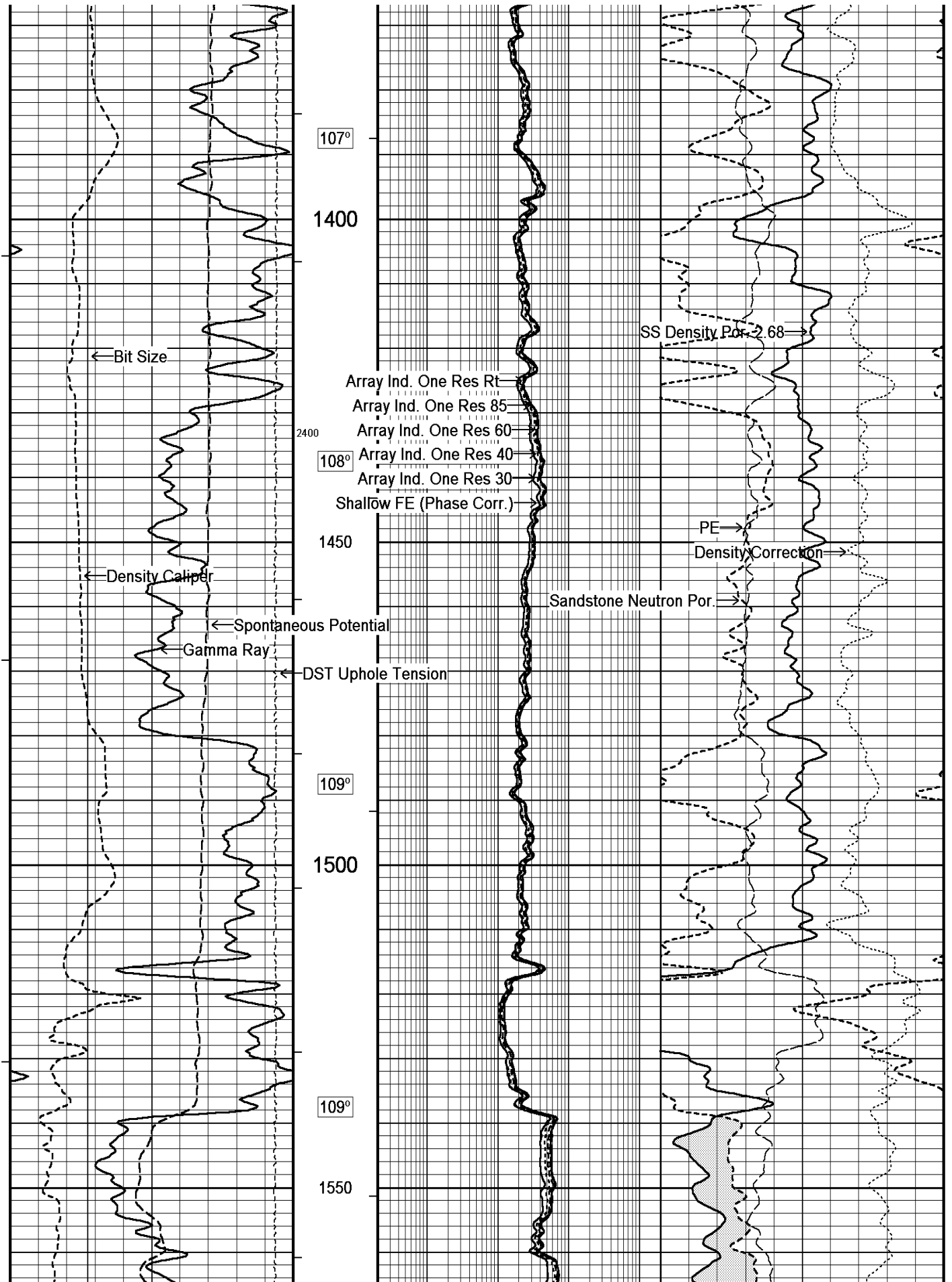
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

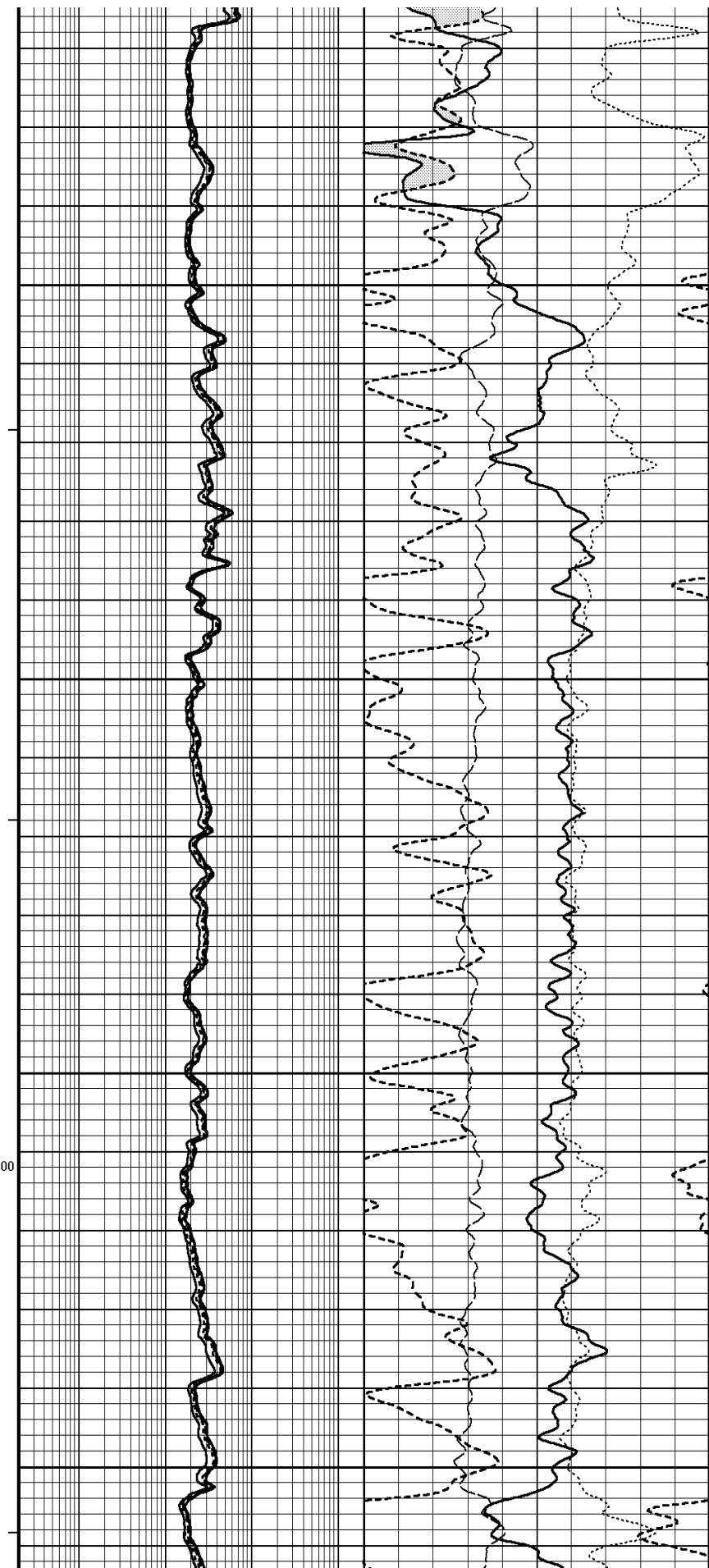
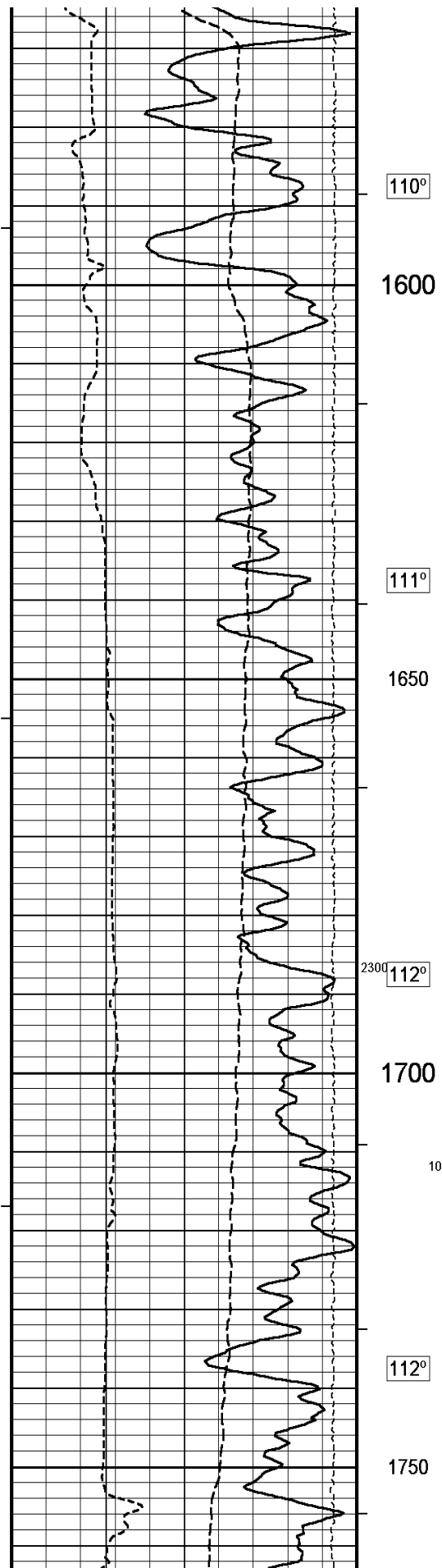


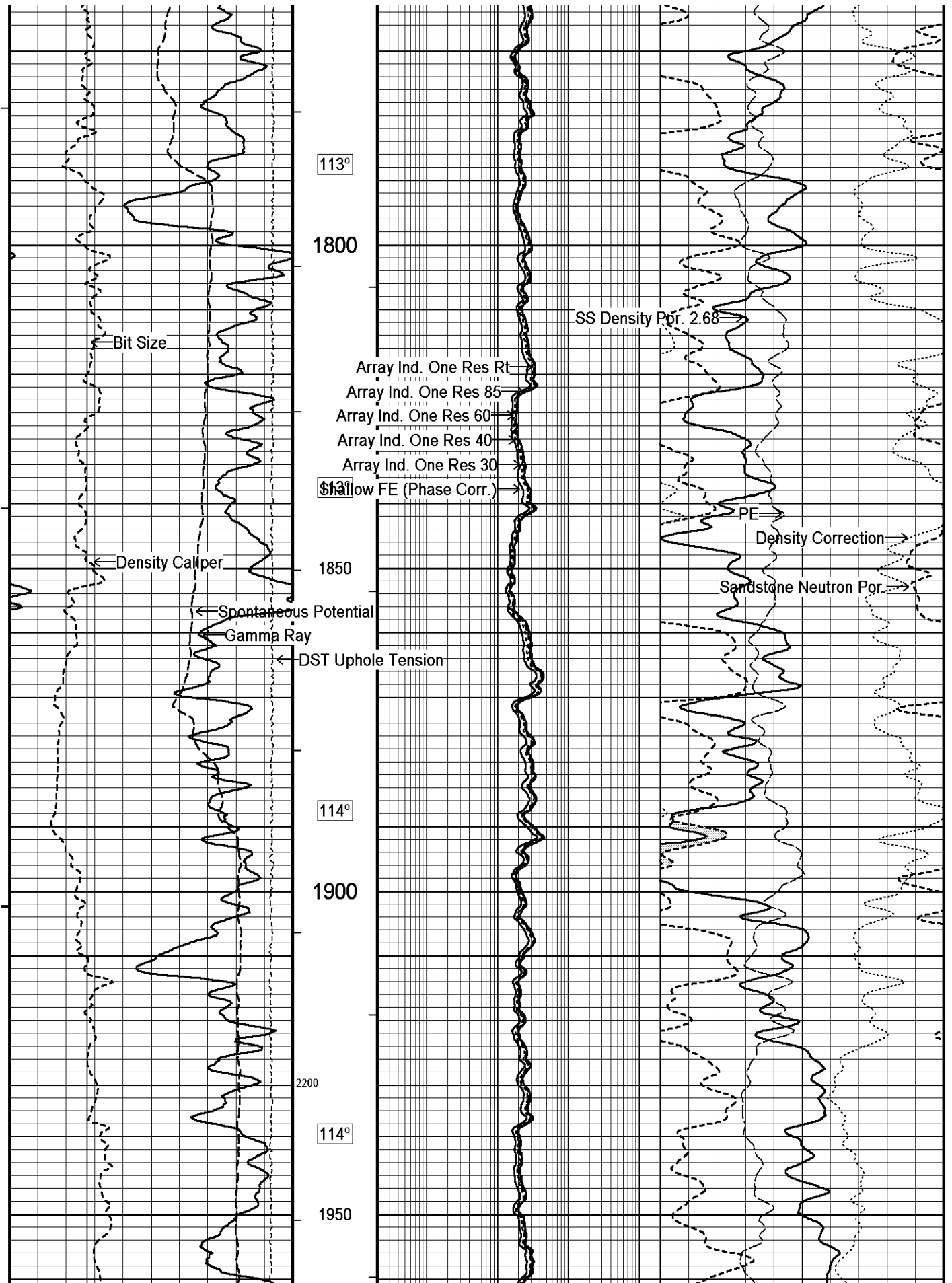


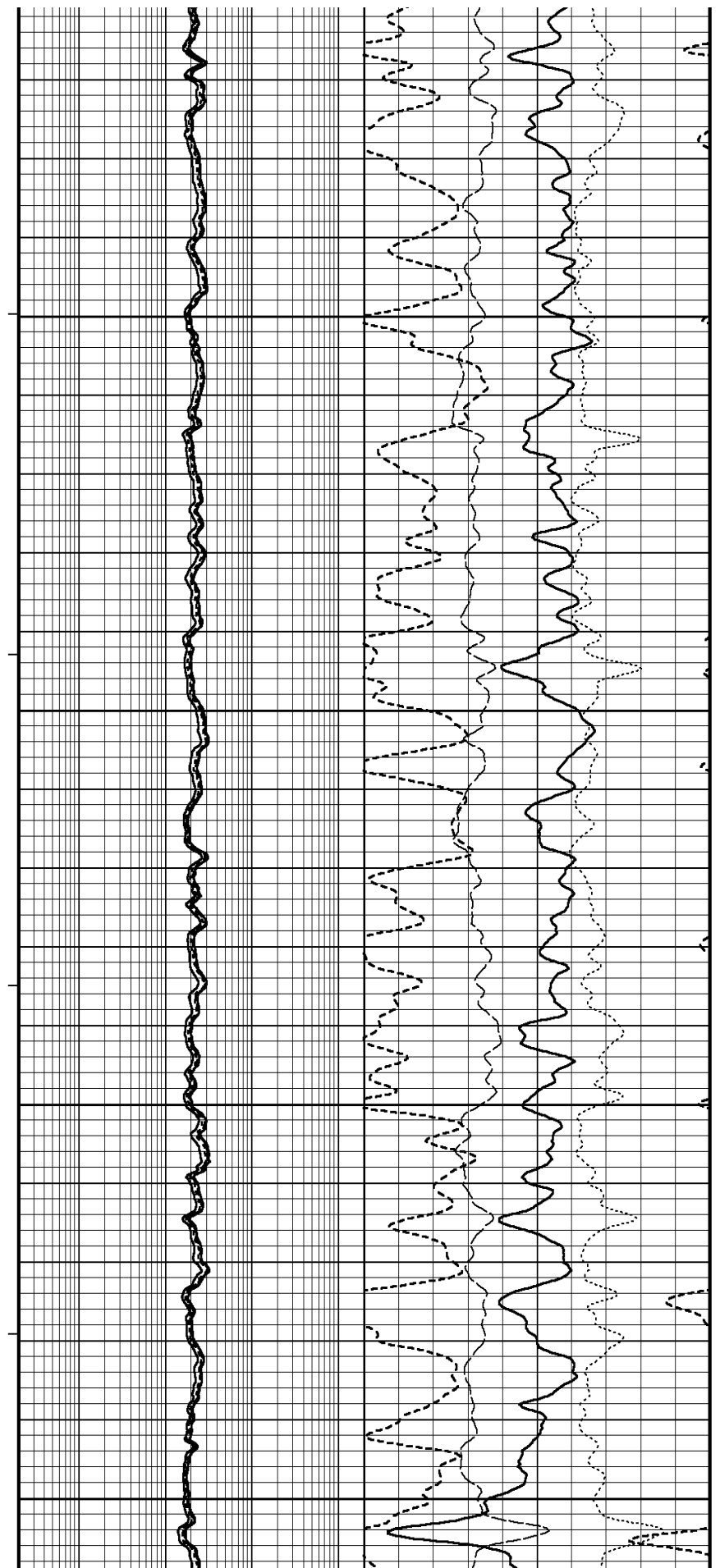
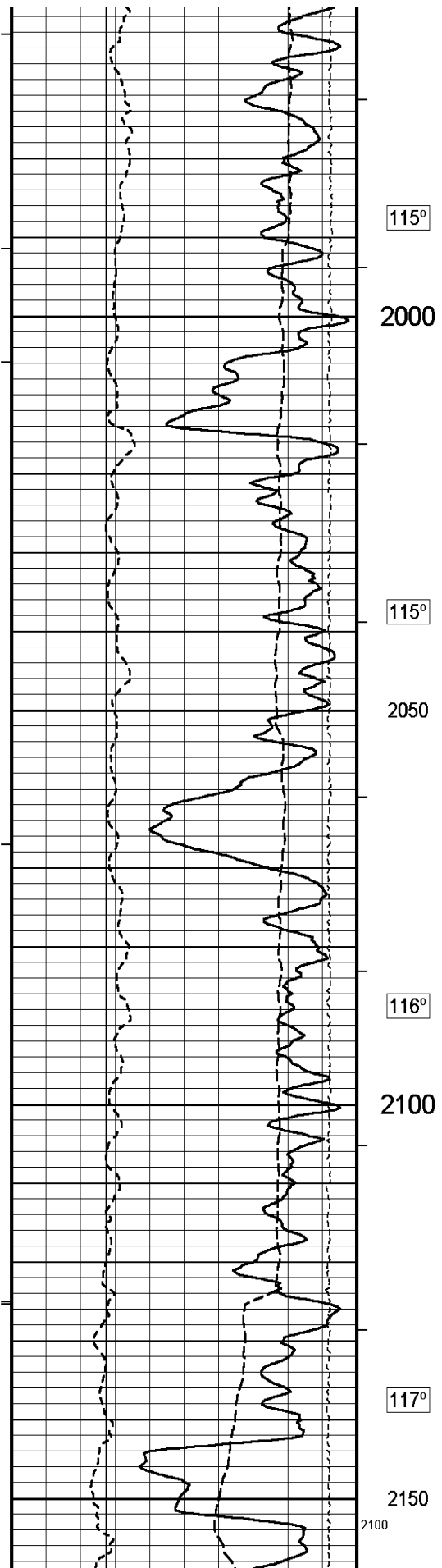


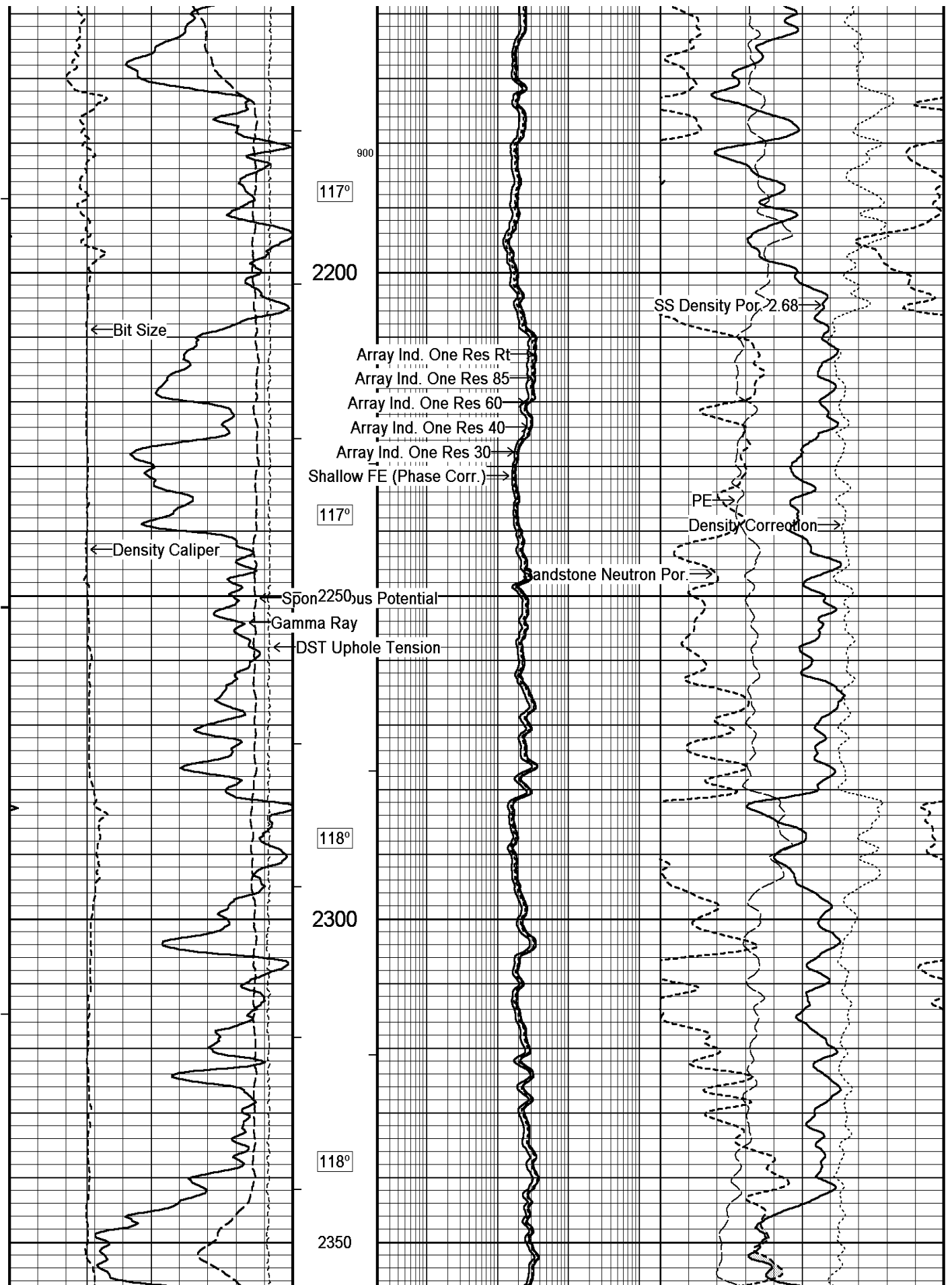


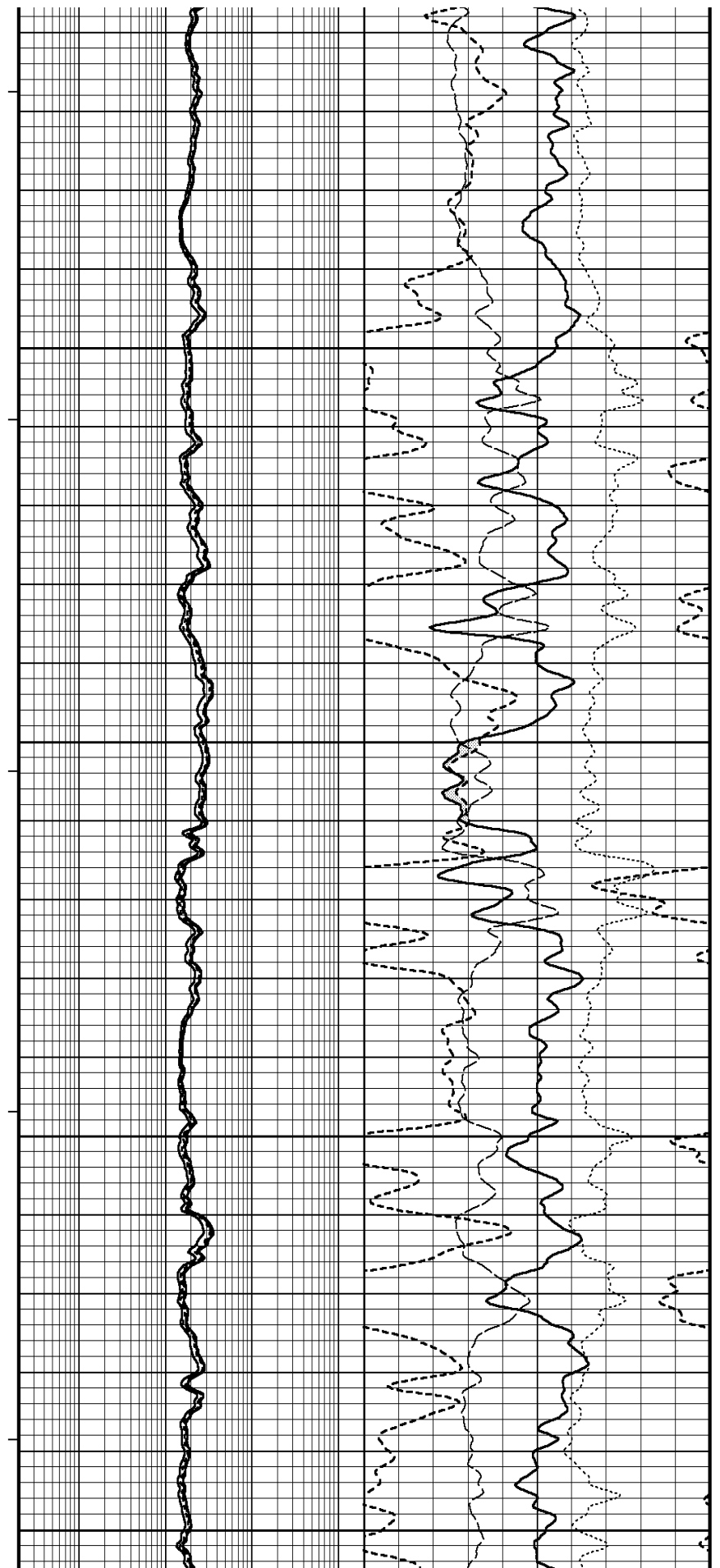
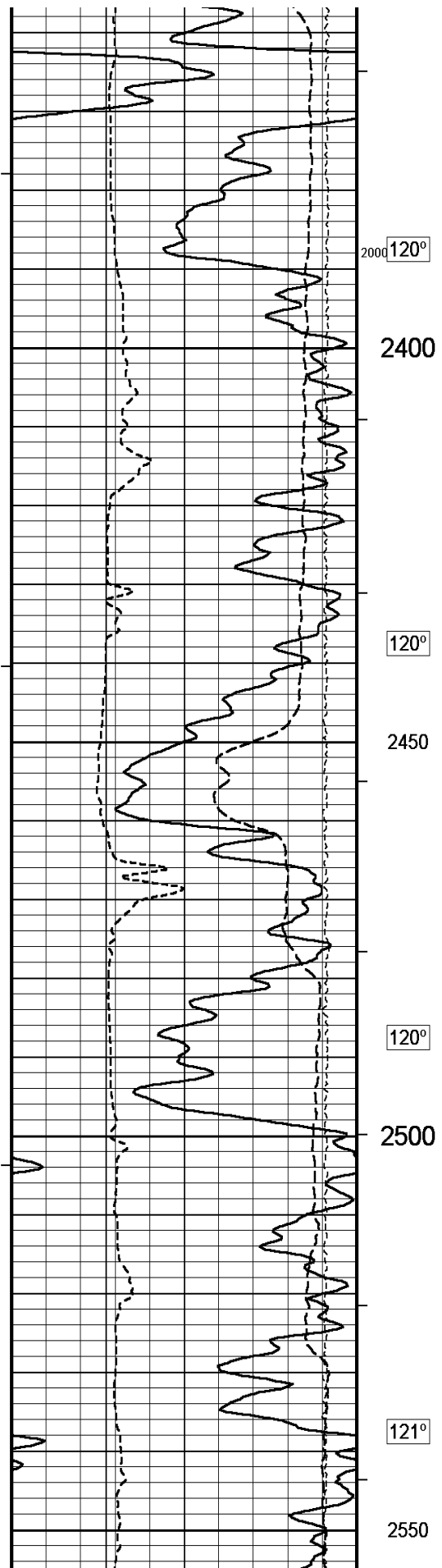


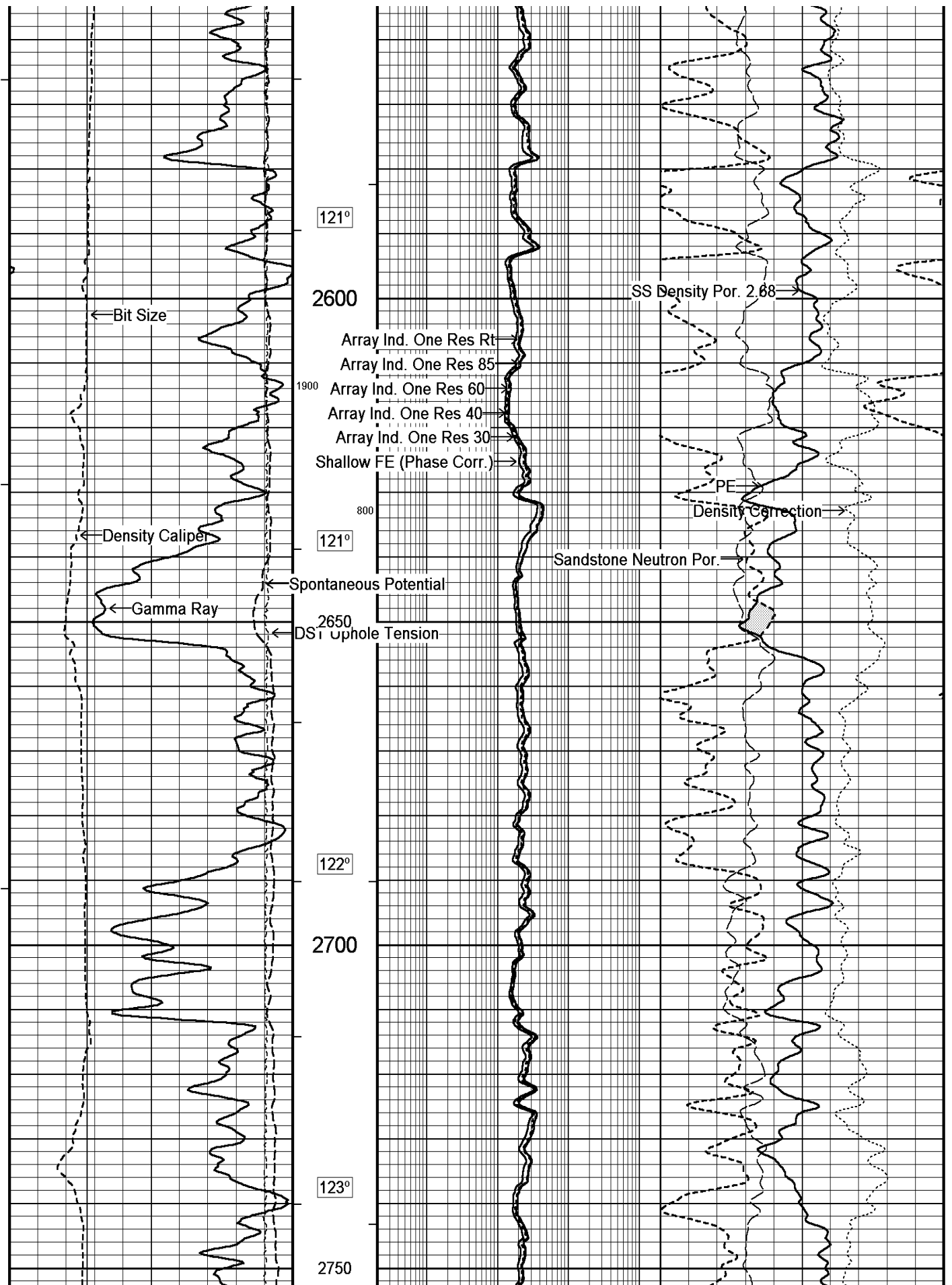


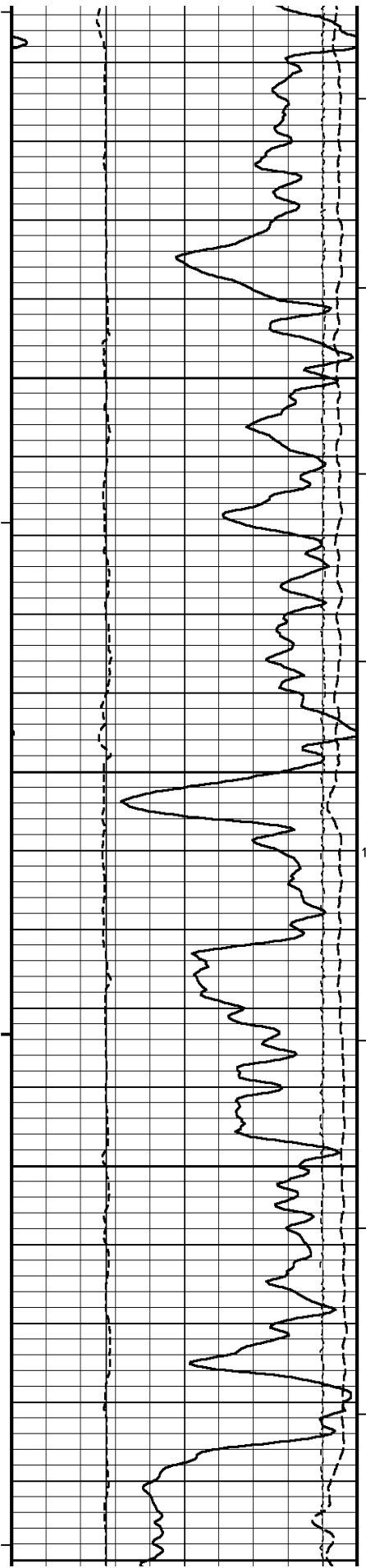












123°

2800

123°

2850

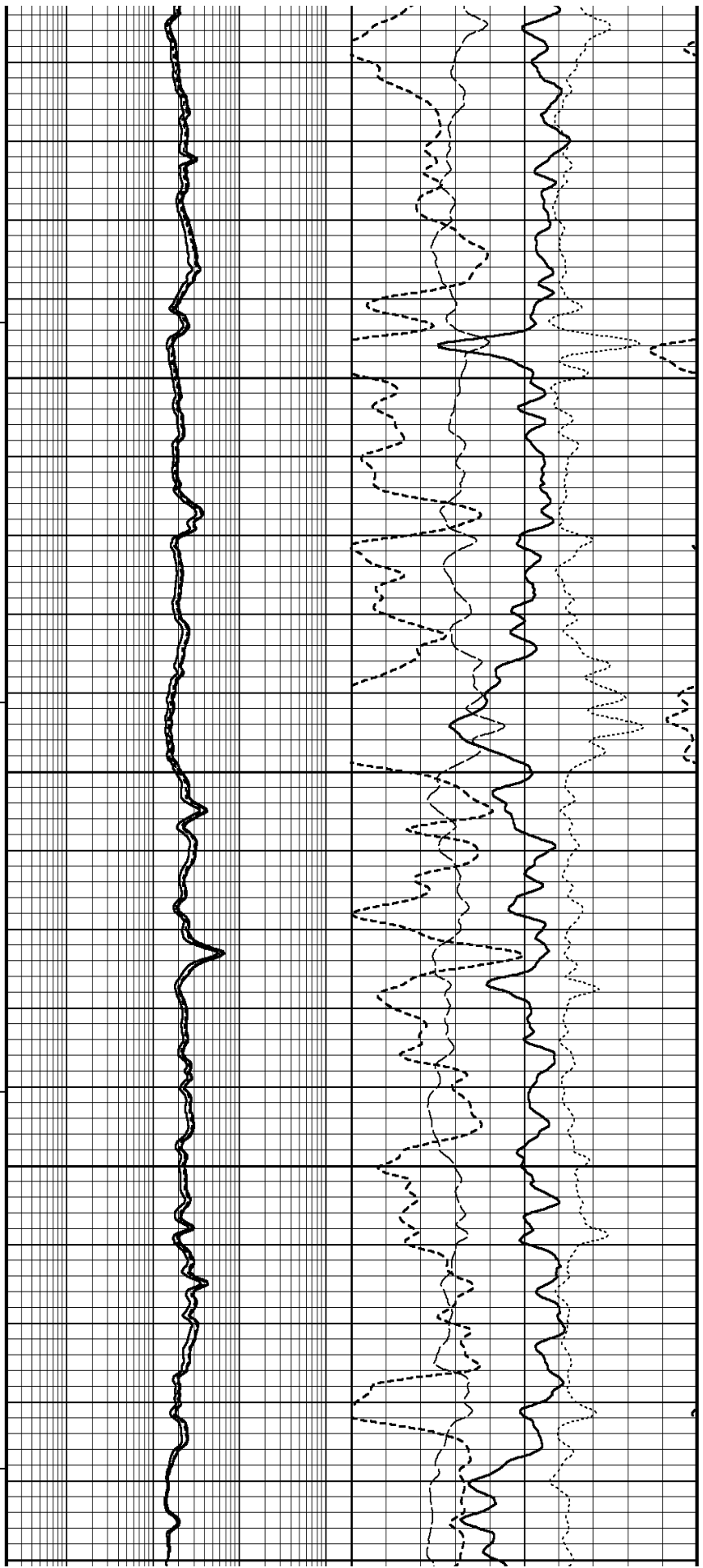
1800

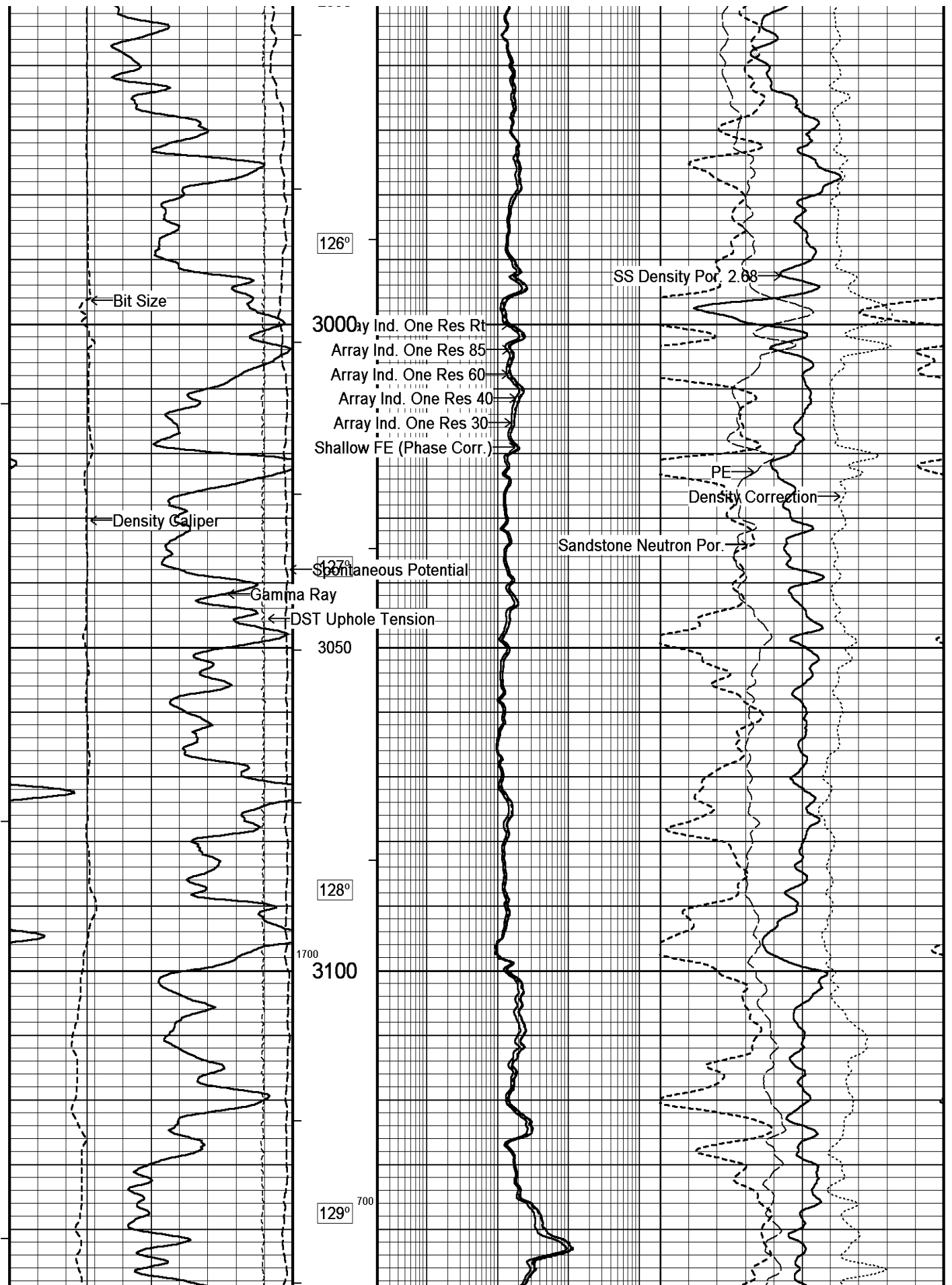
124°

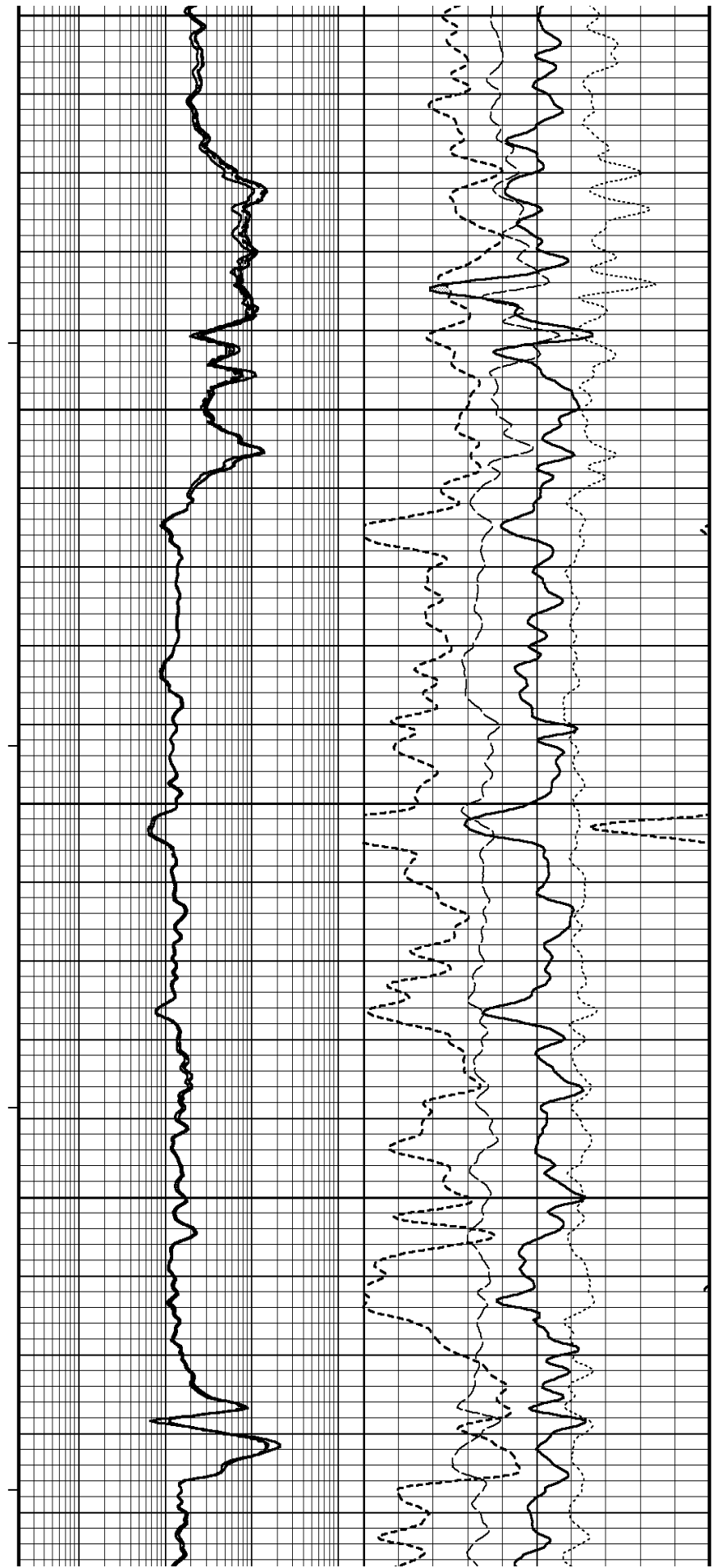
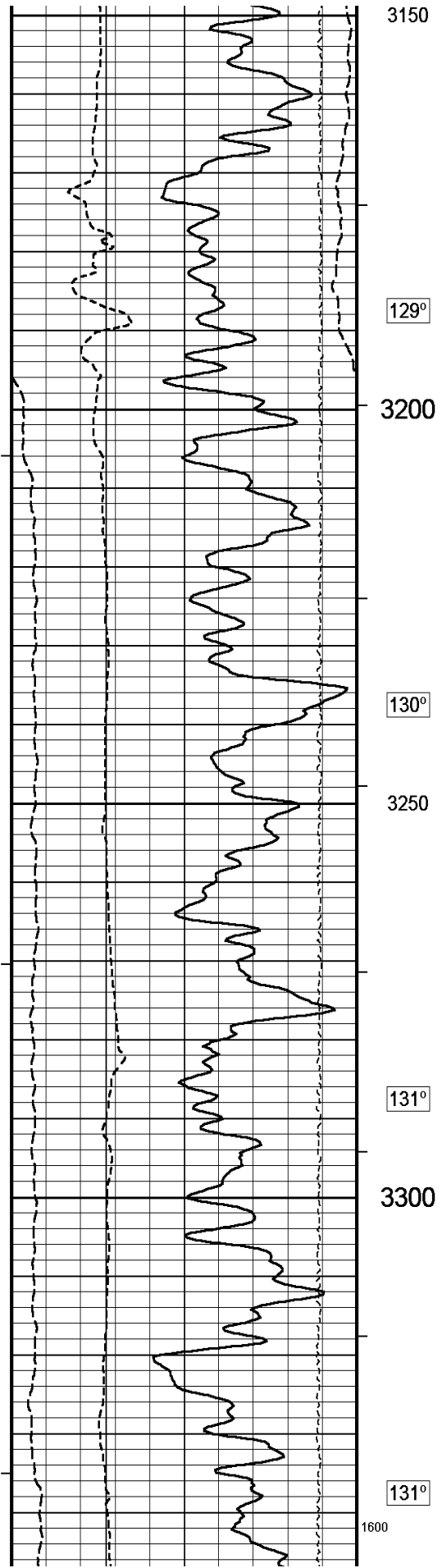
2900

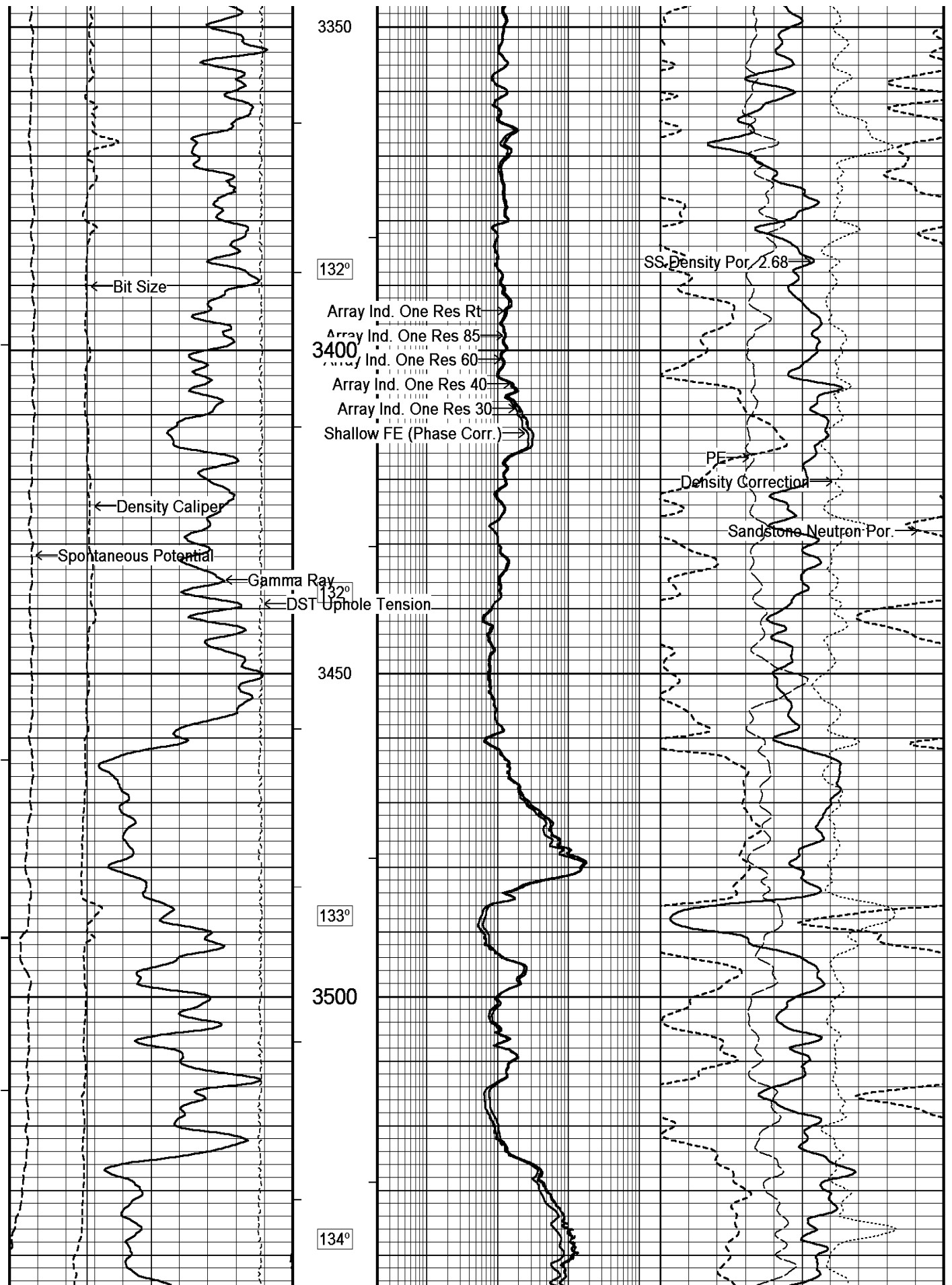
125°

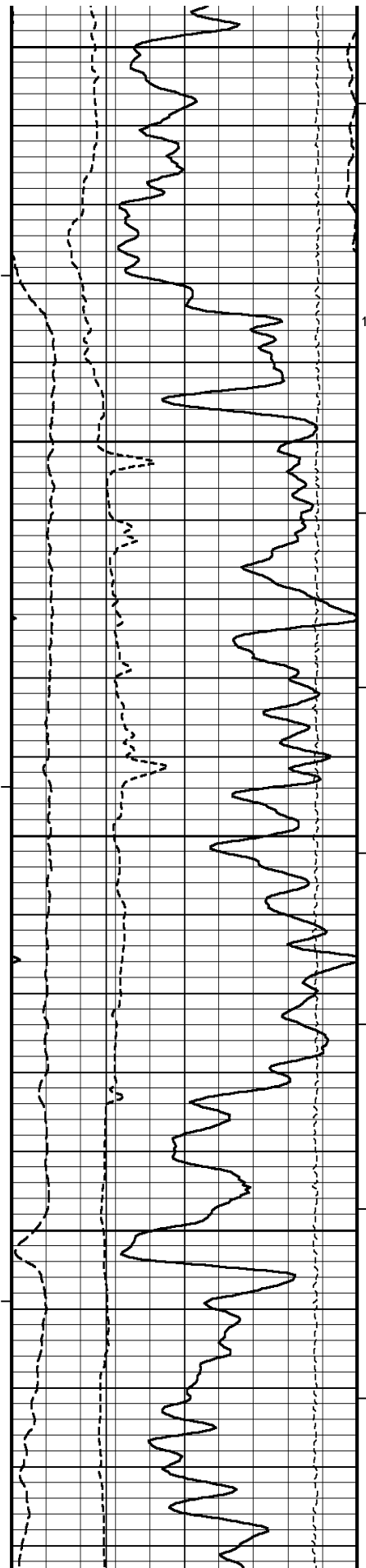
2950











3550

1500

135°

3600

600

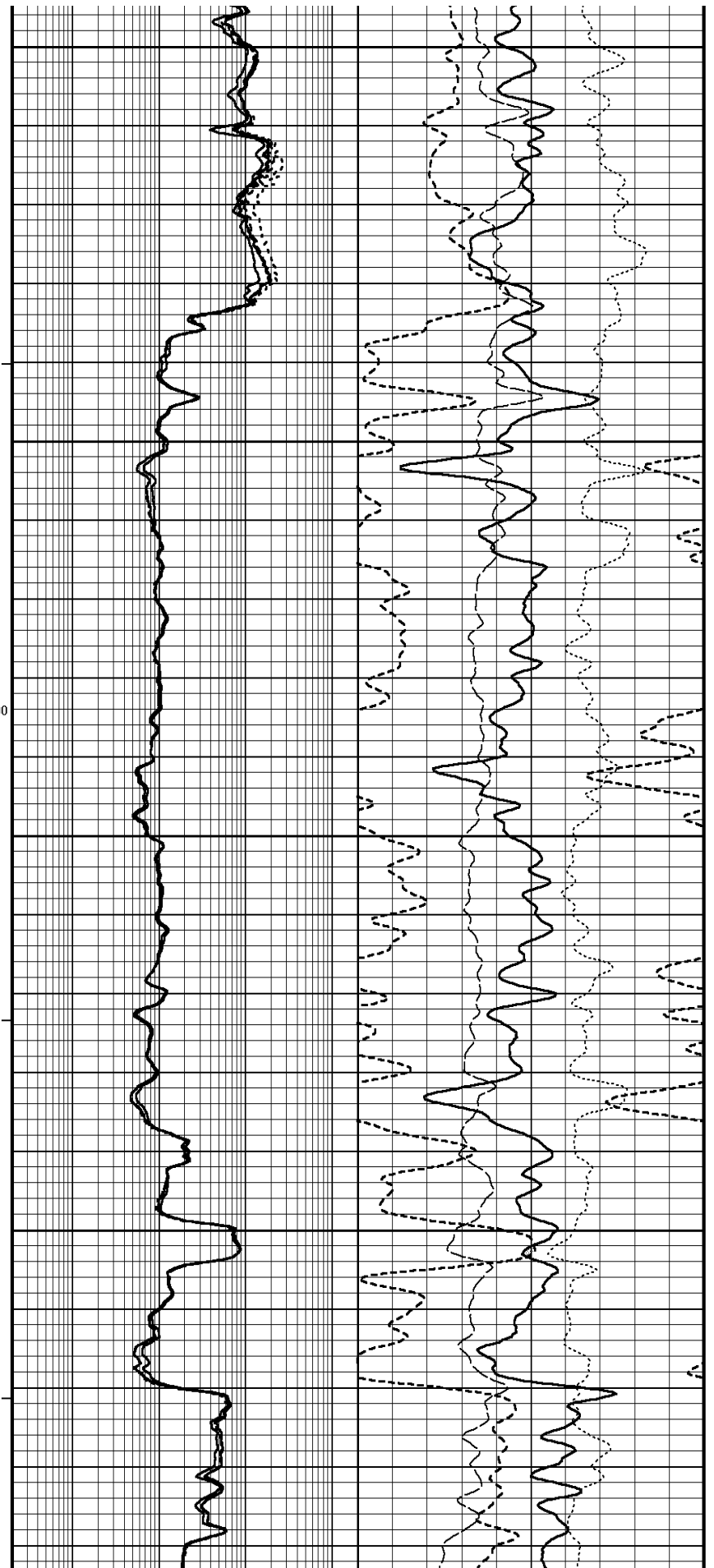
135°

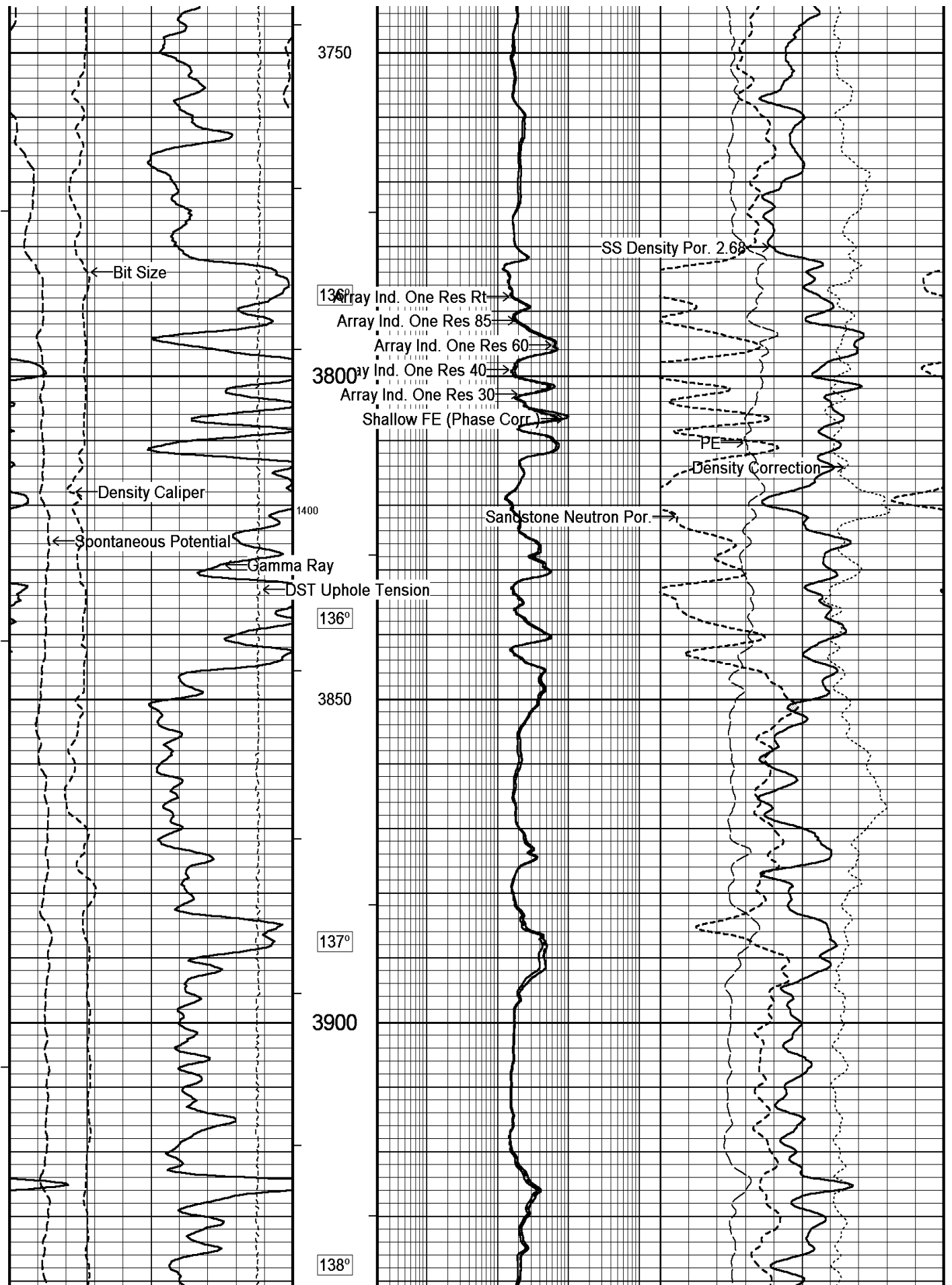
3650

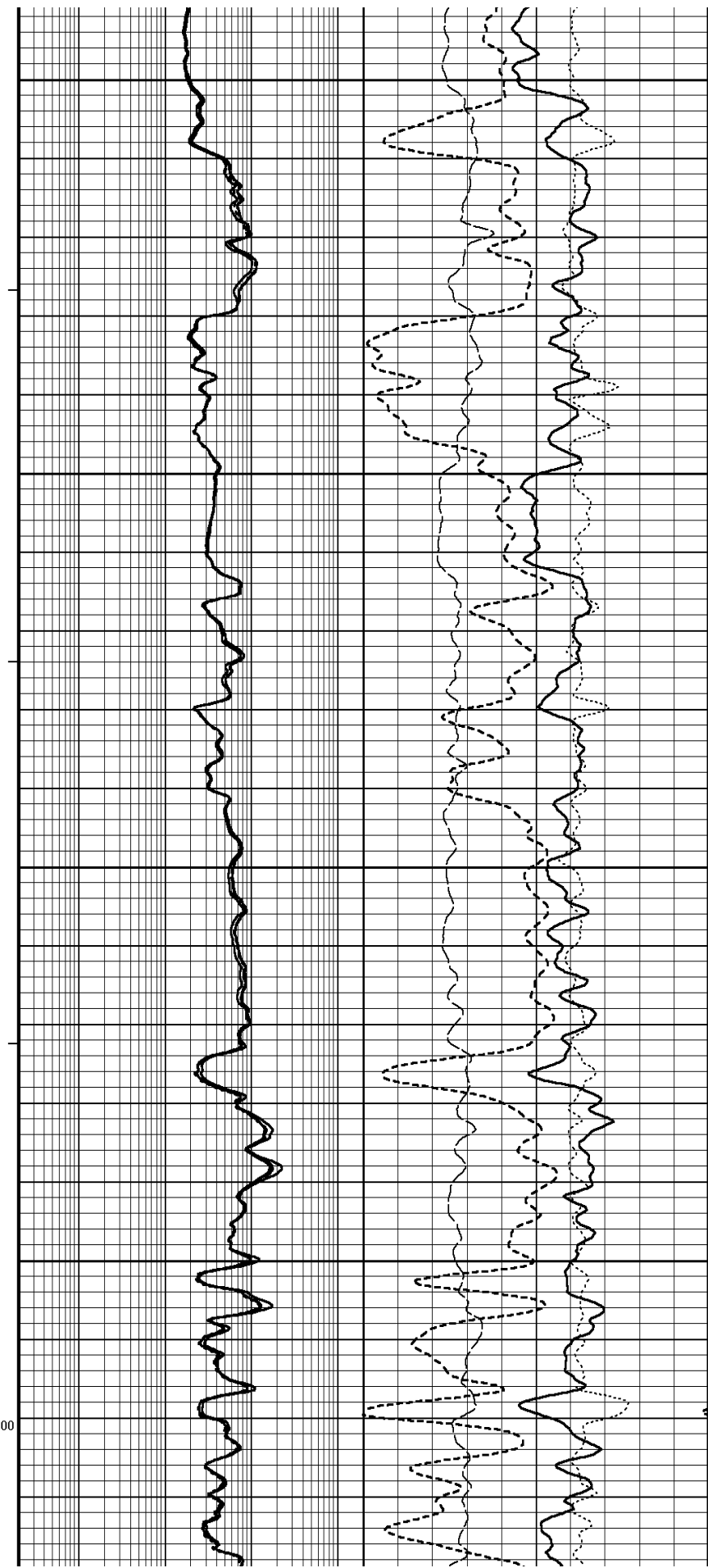
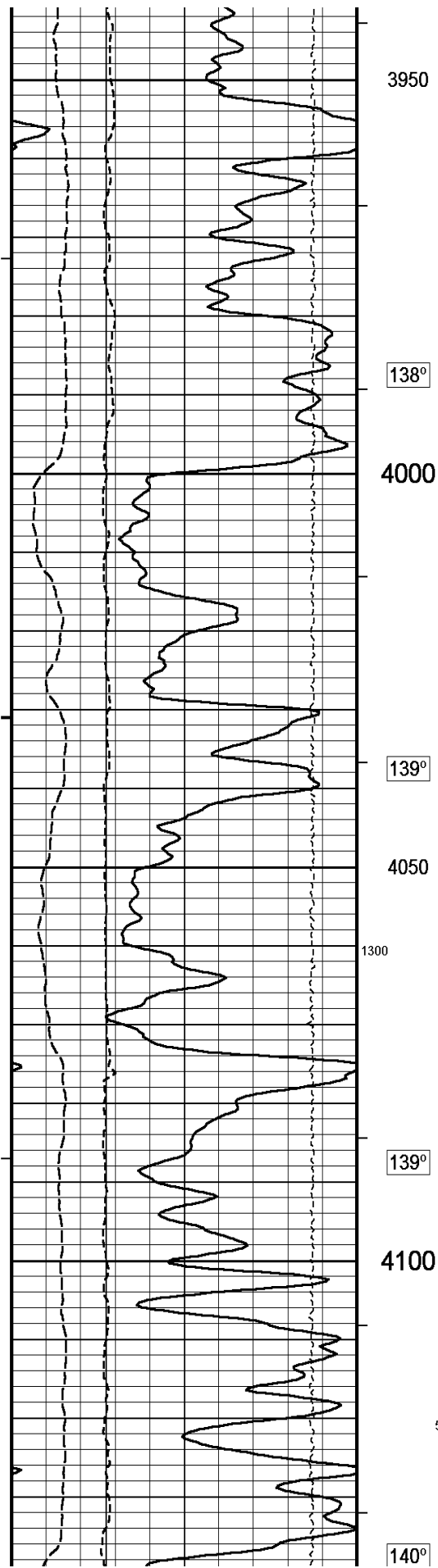
135°

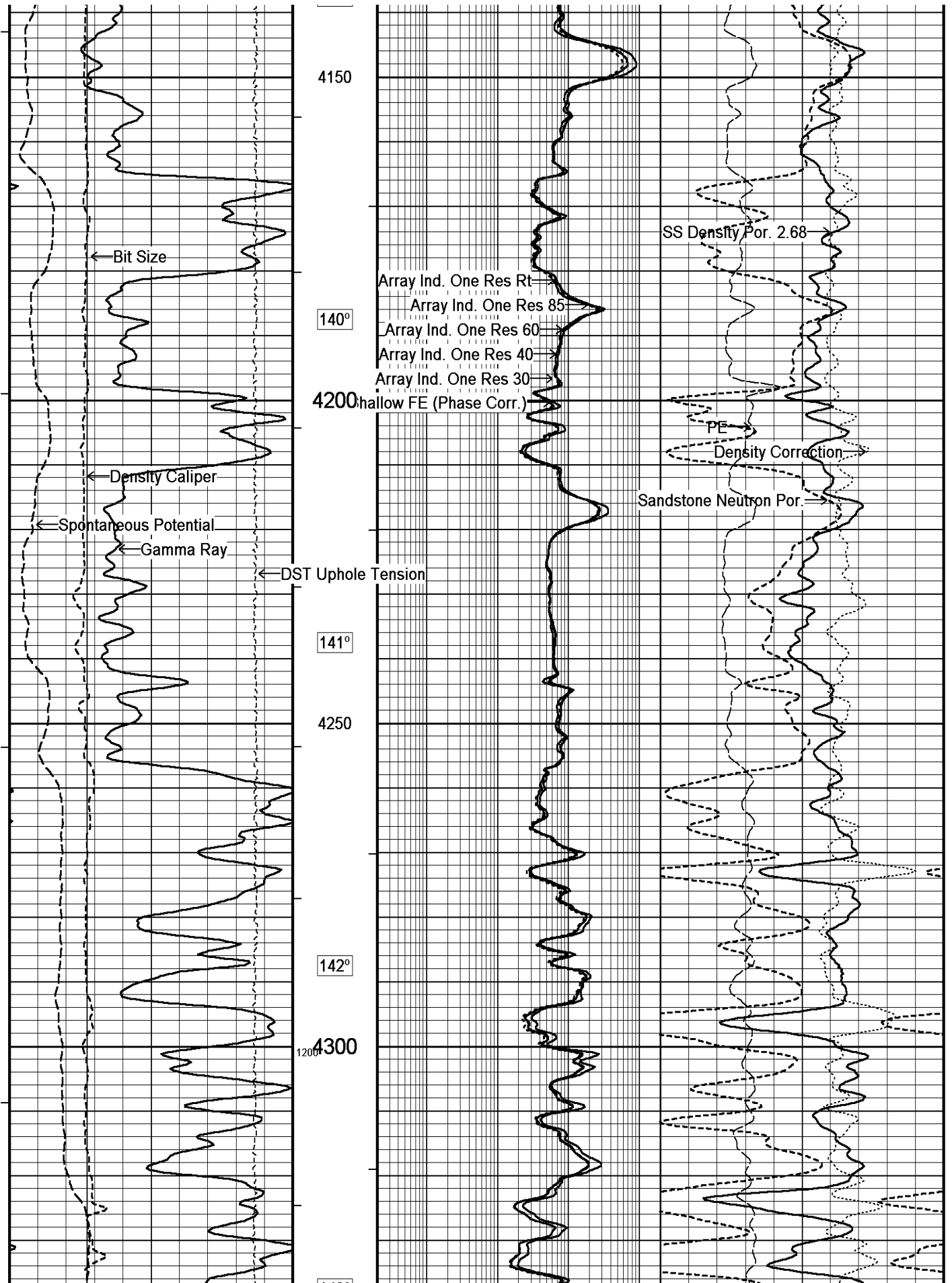
3700

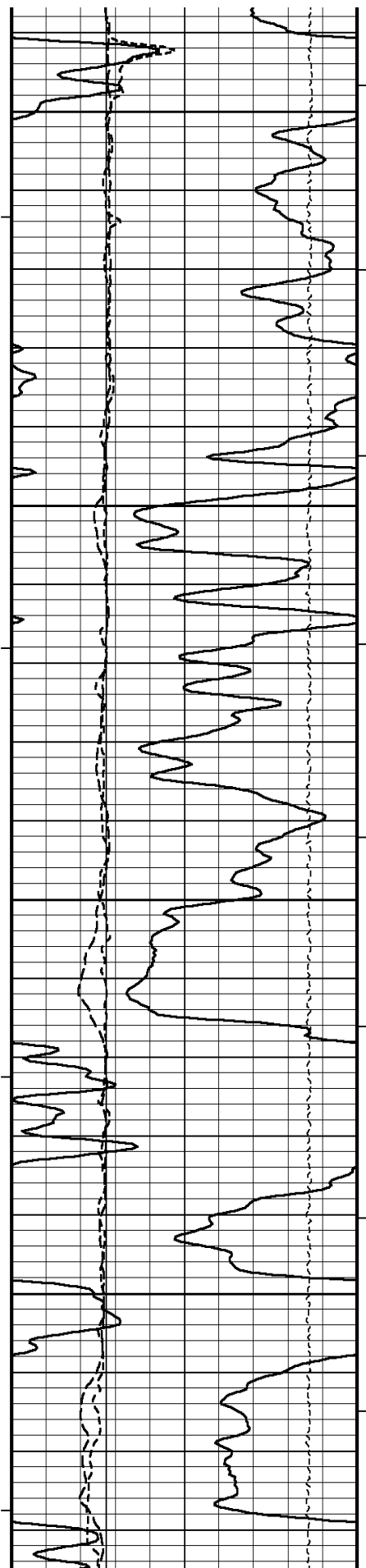
136°



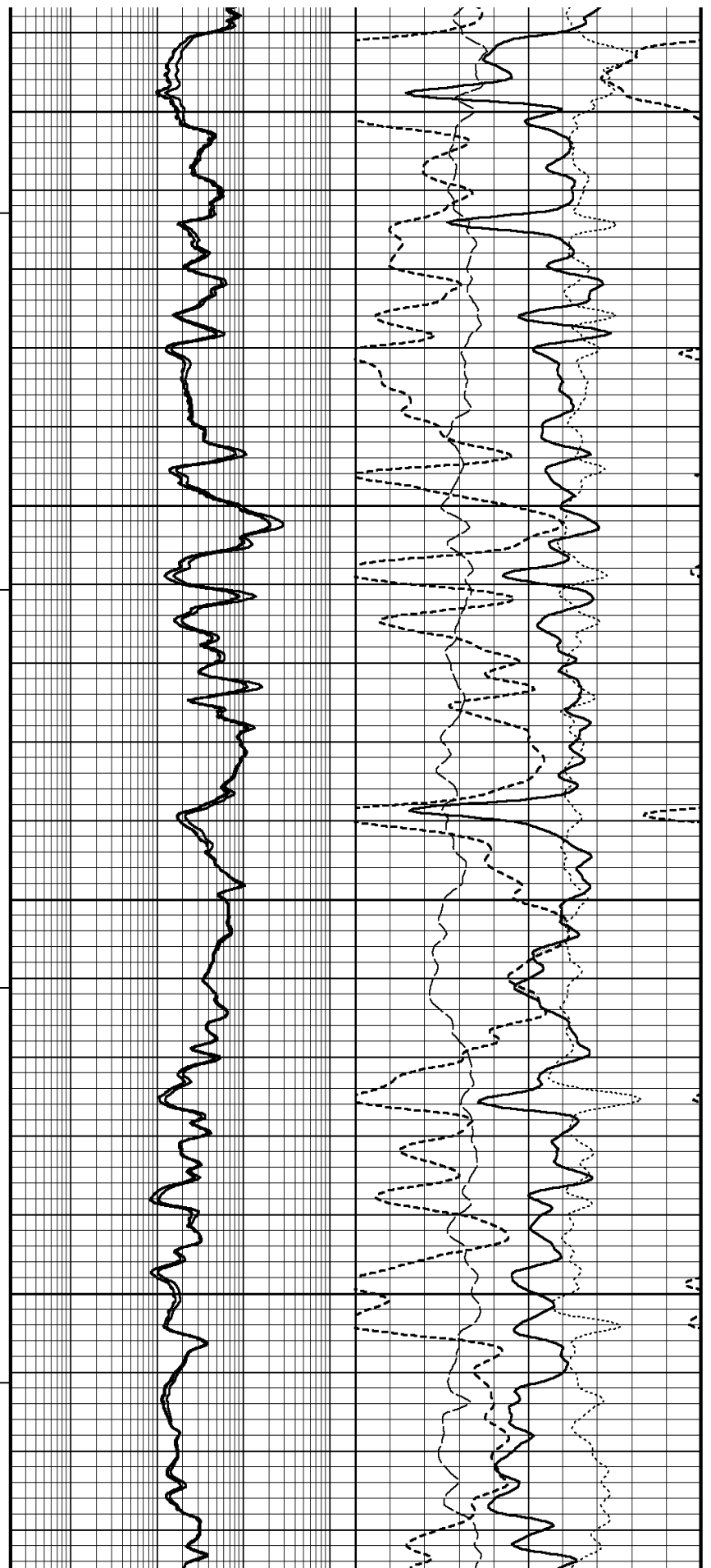


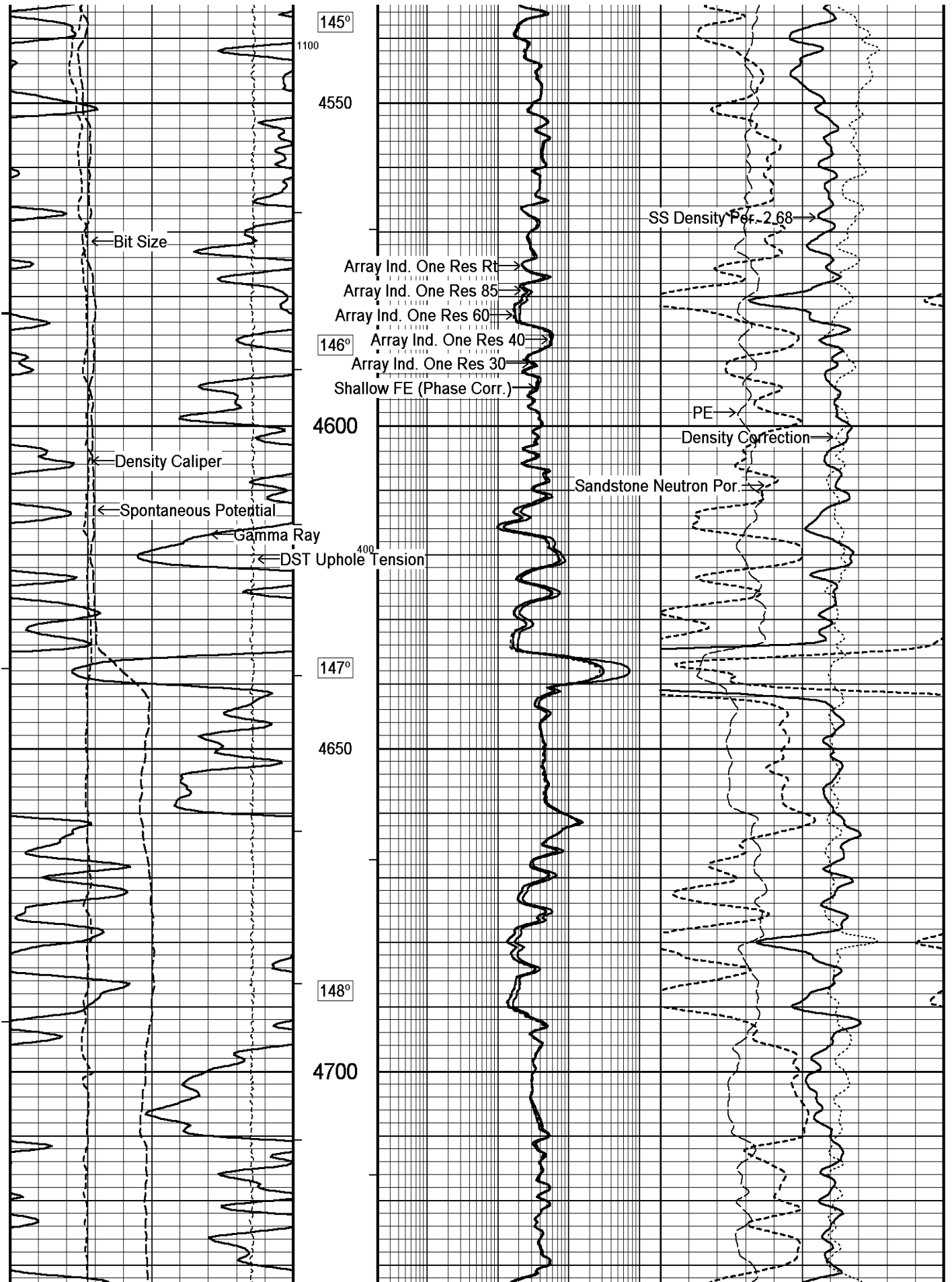


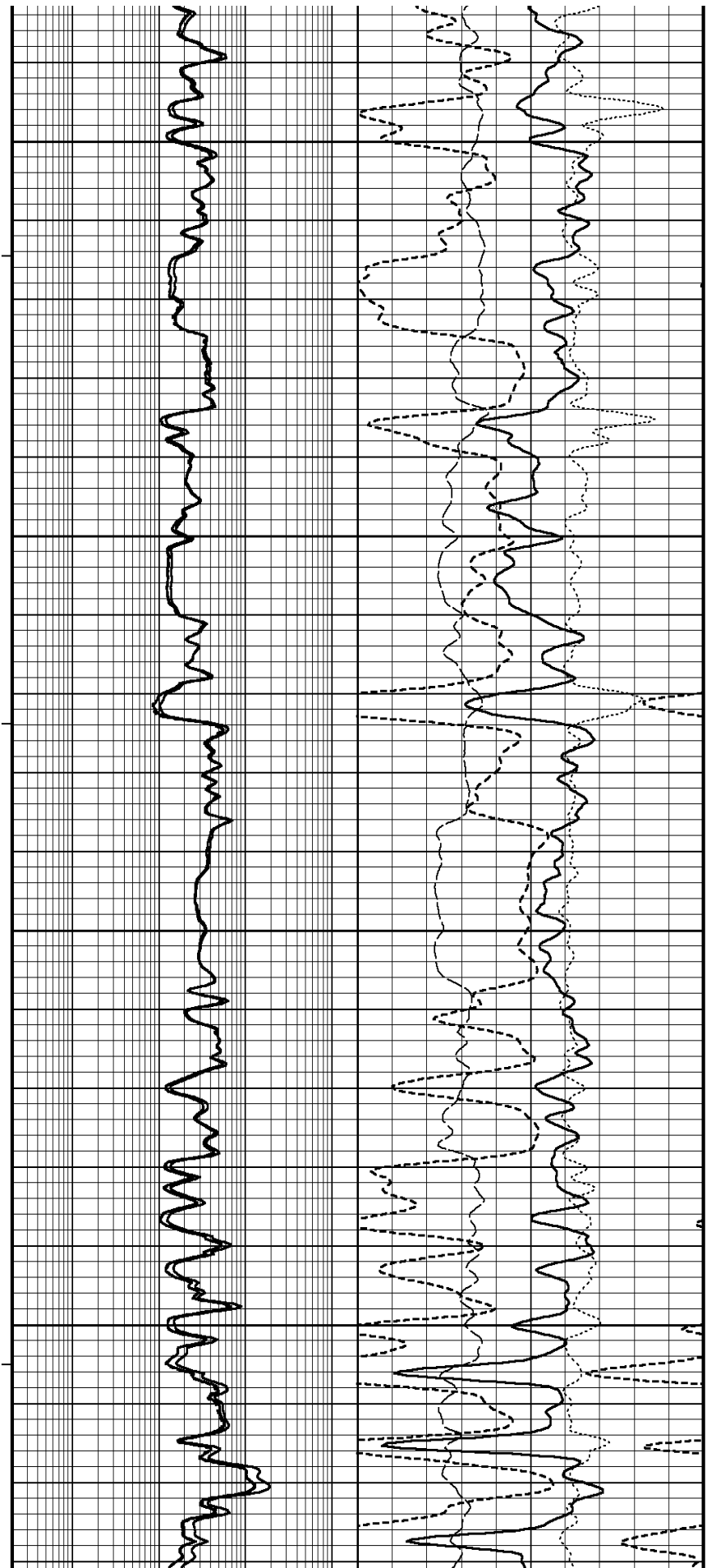
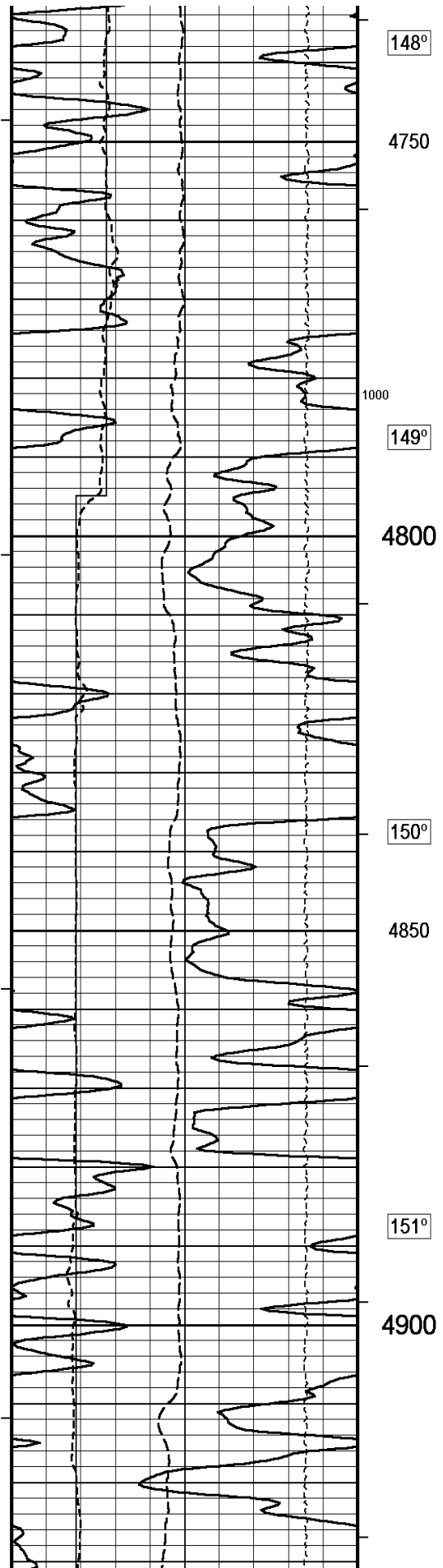


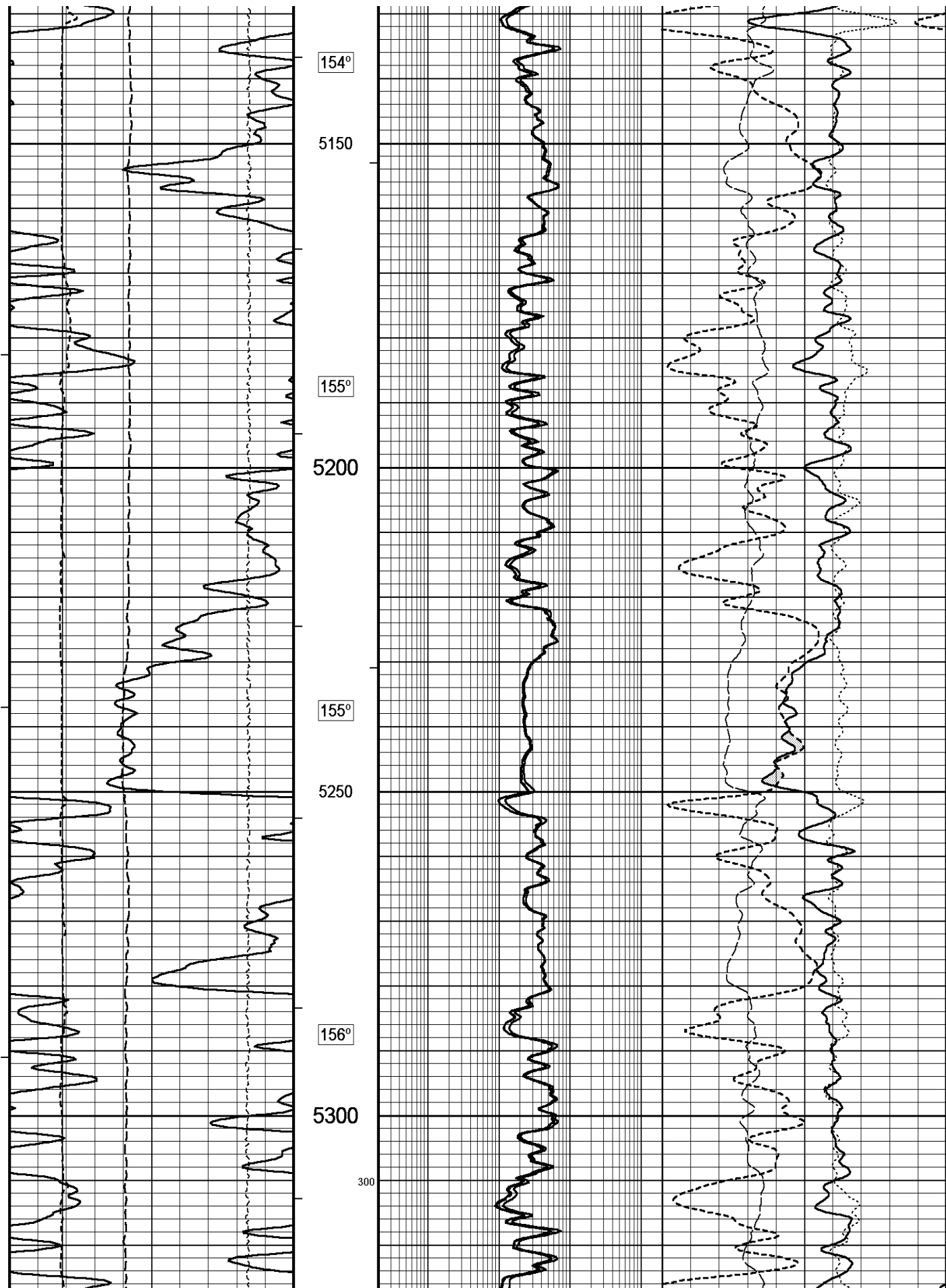


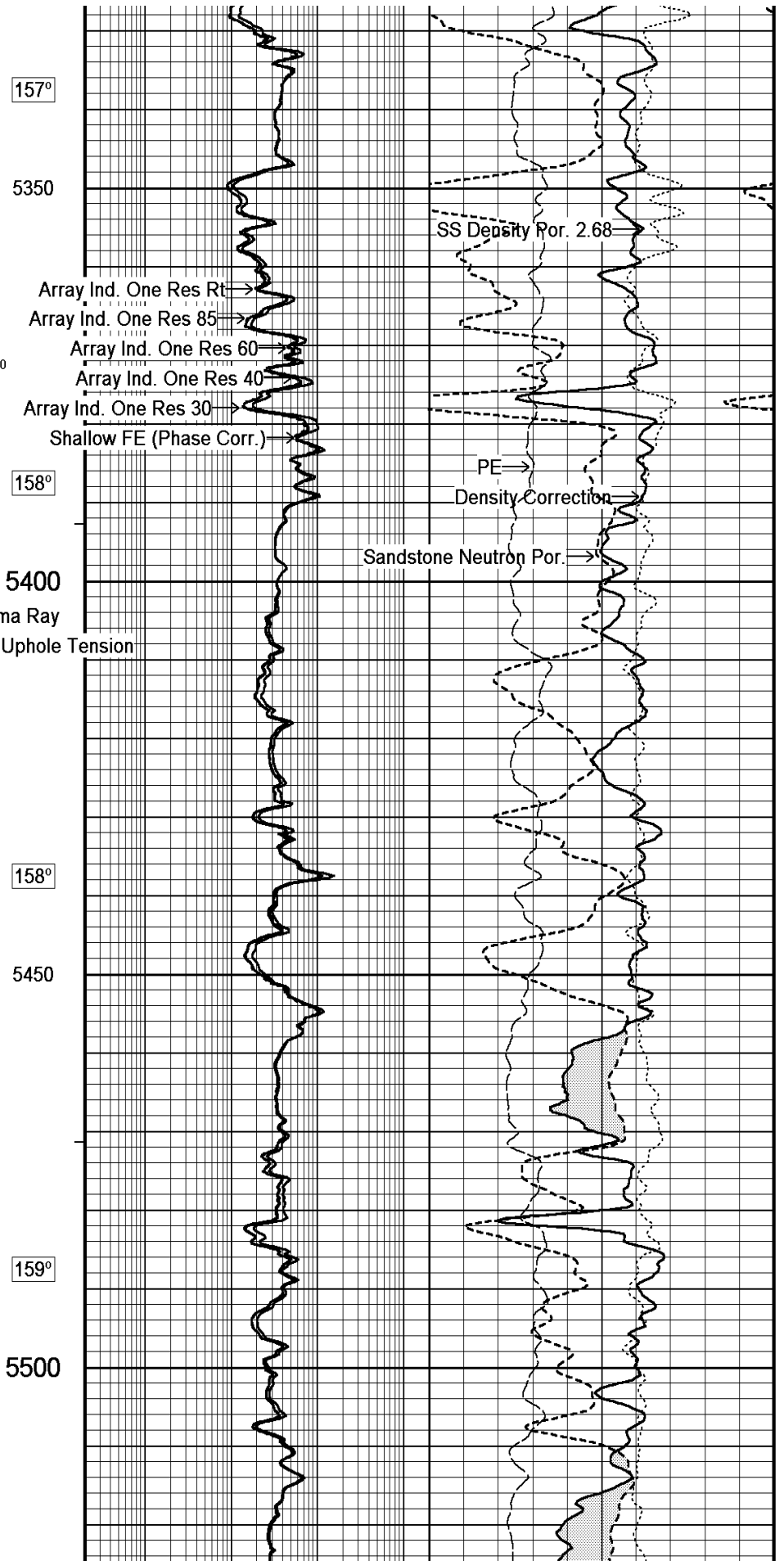
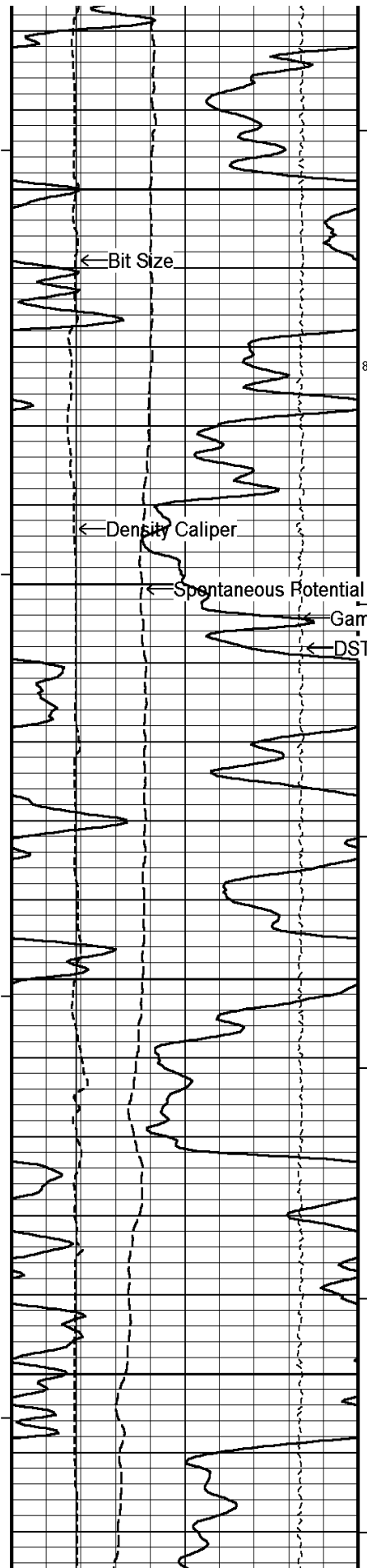
143°
4350
143°
4400
144°
4450
145°
4500











157°

5350

800

158°

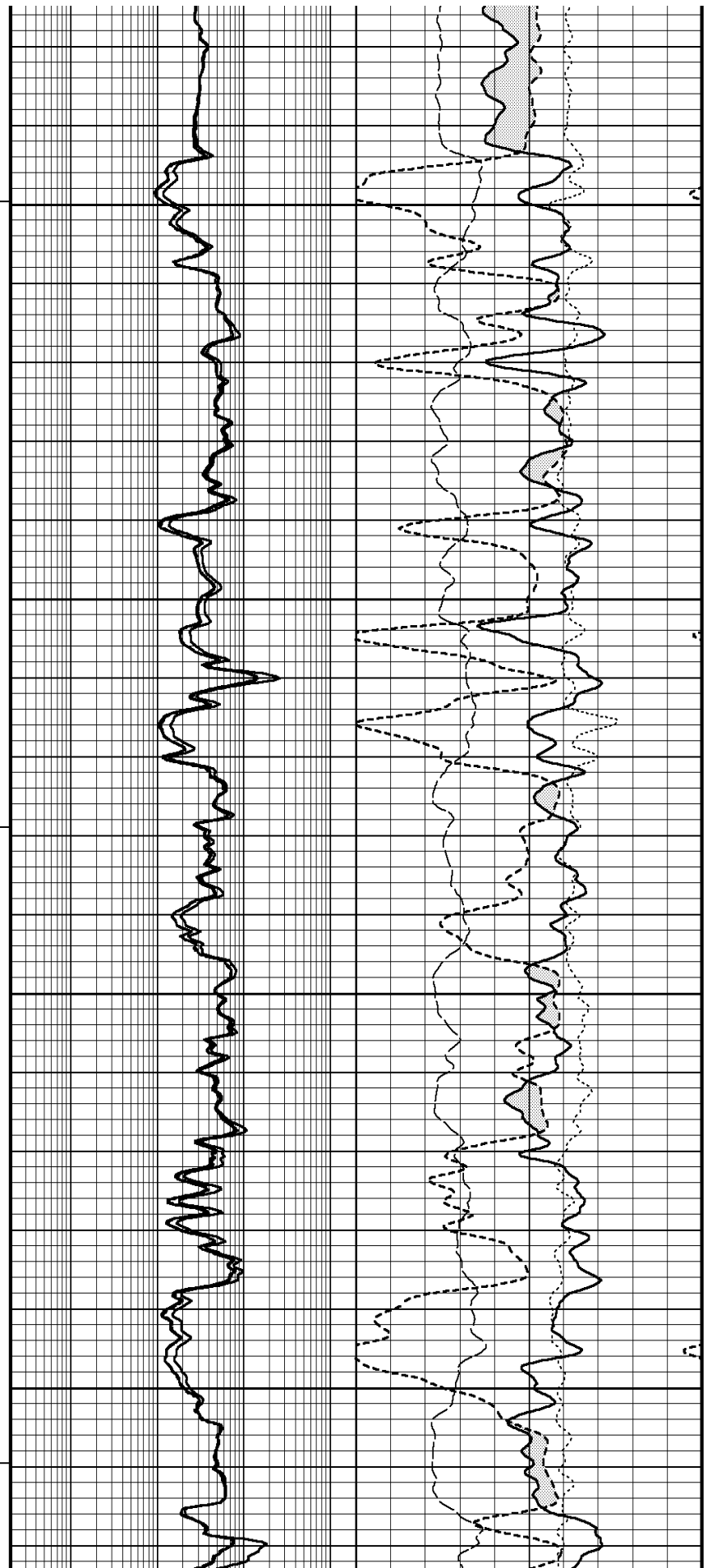
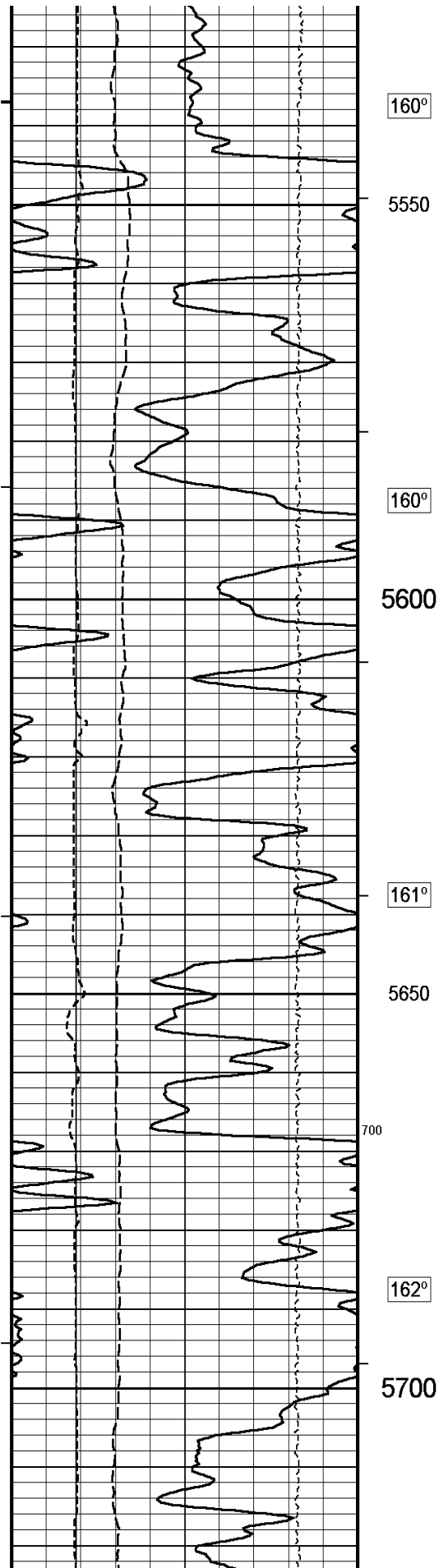
5400

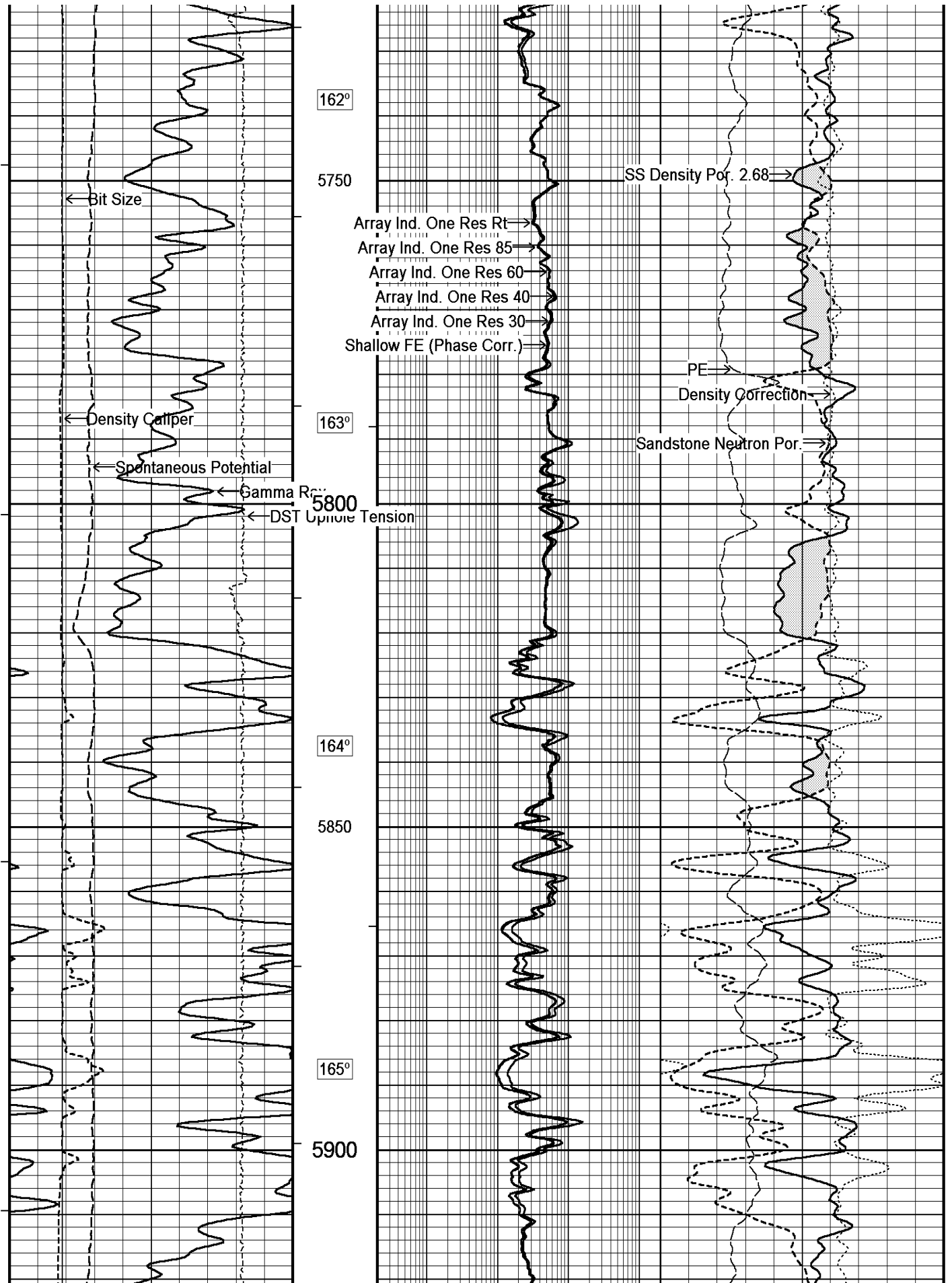
158°

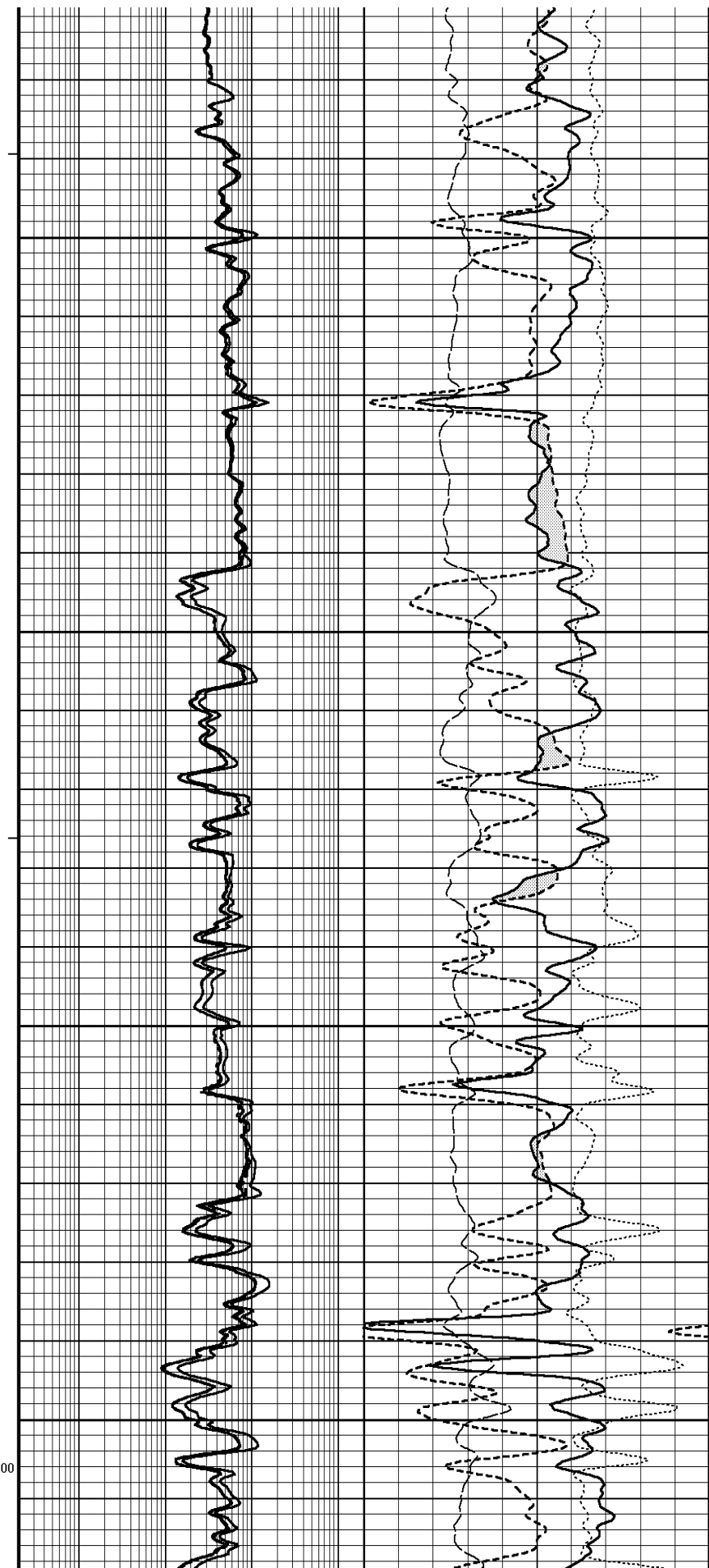
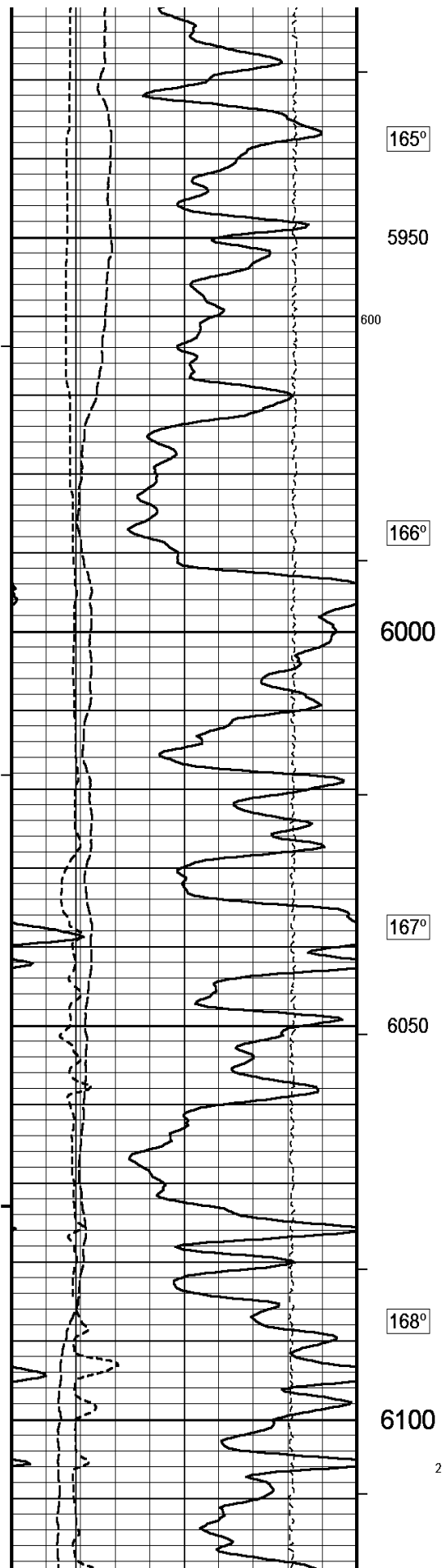
5450

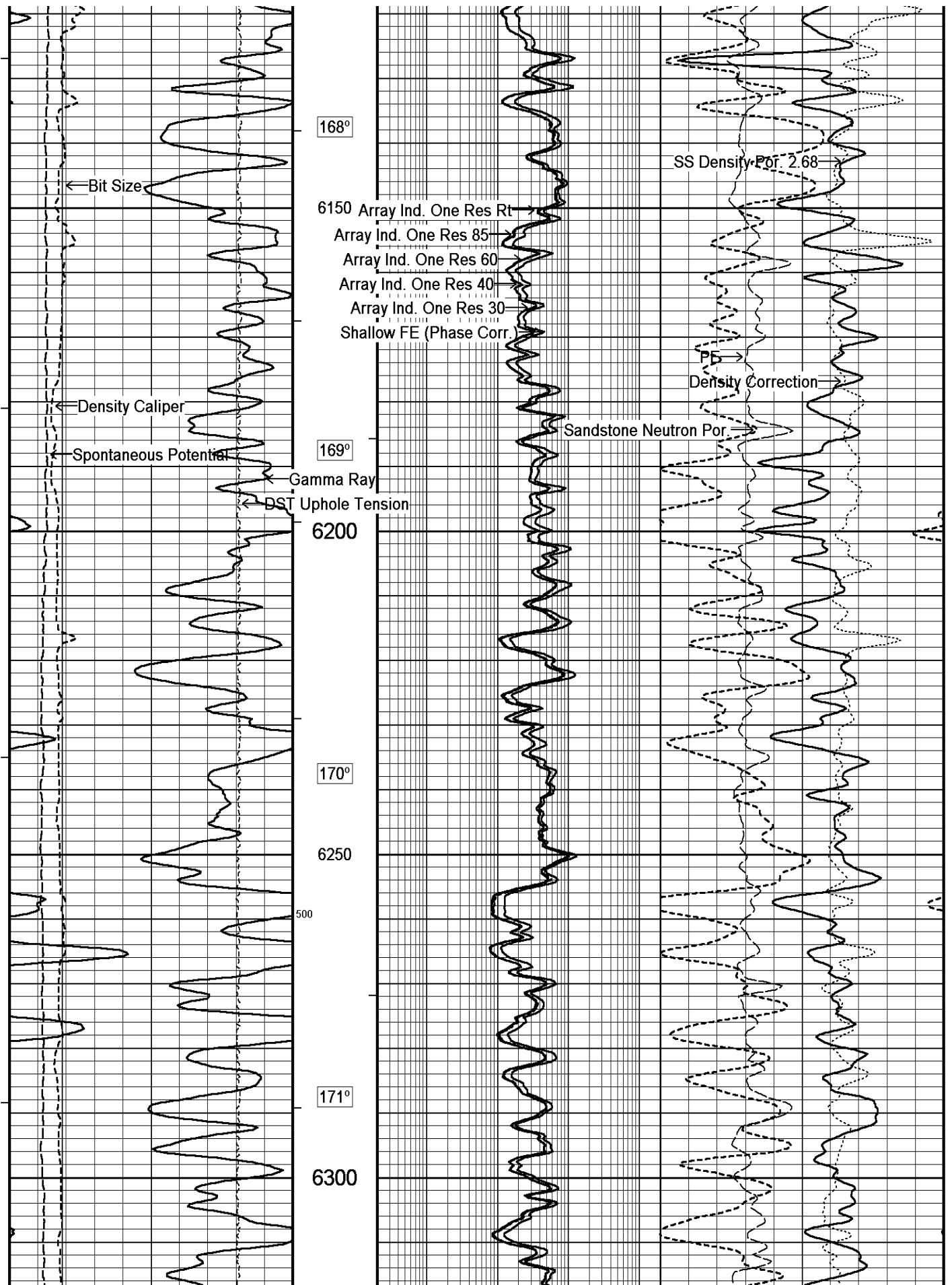
159°

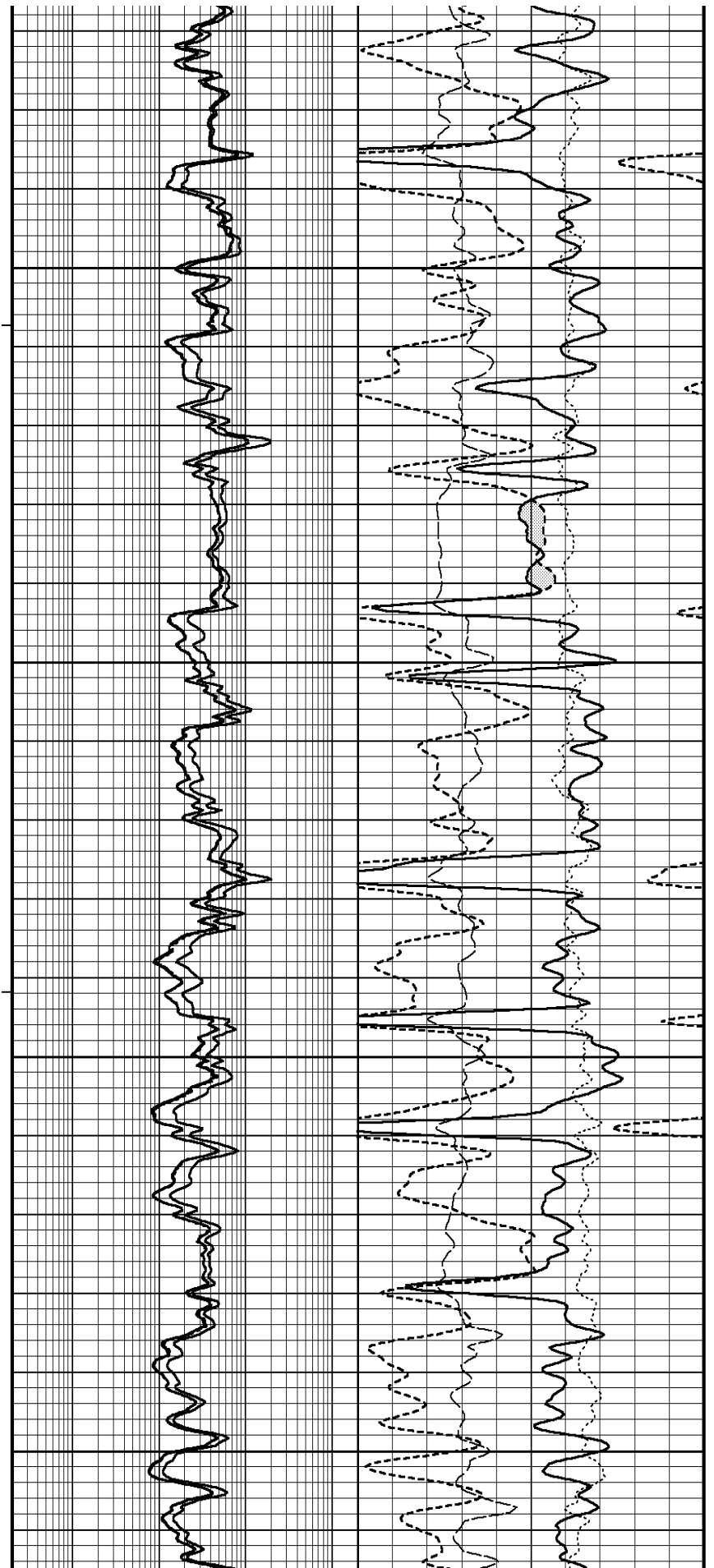
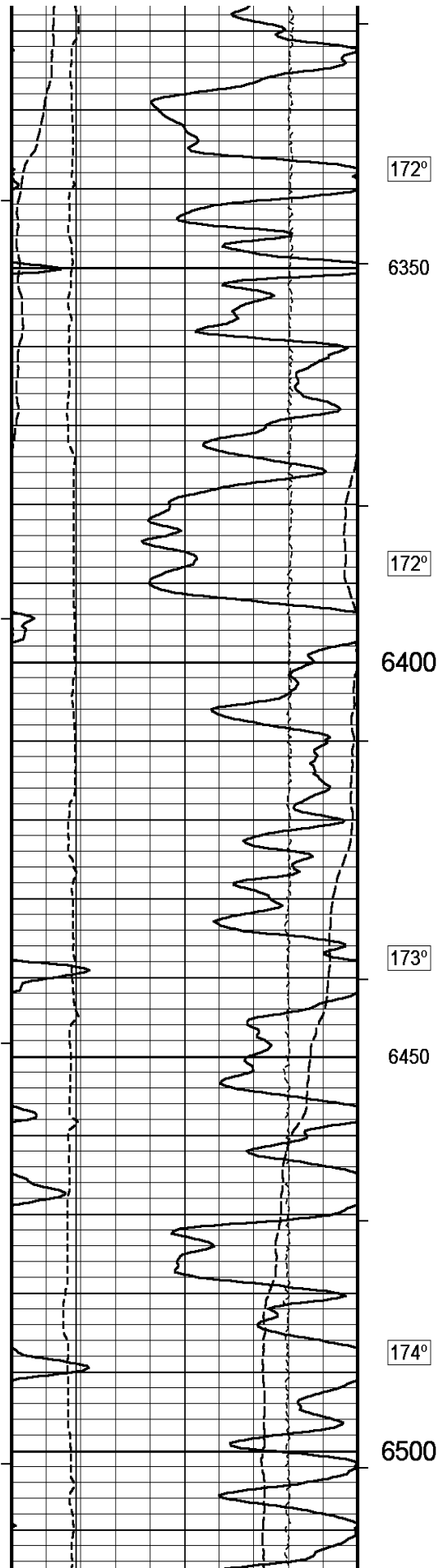
5500

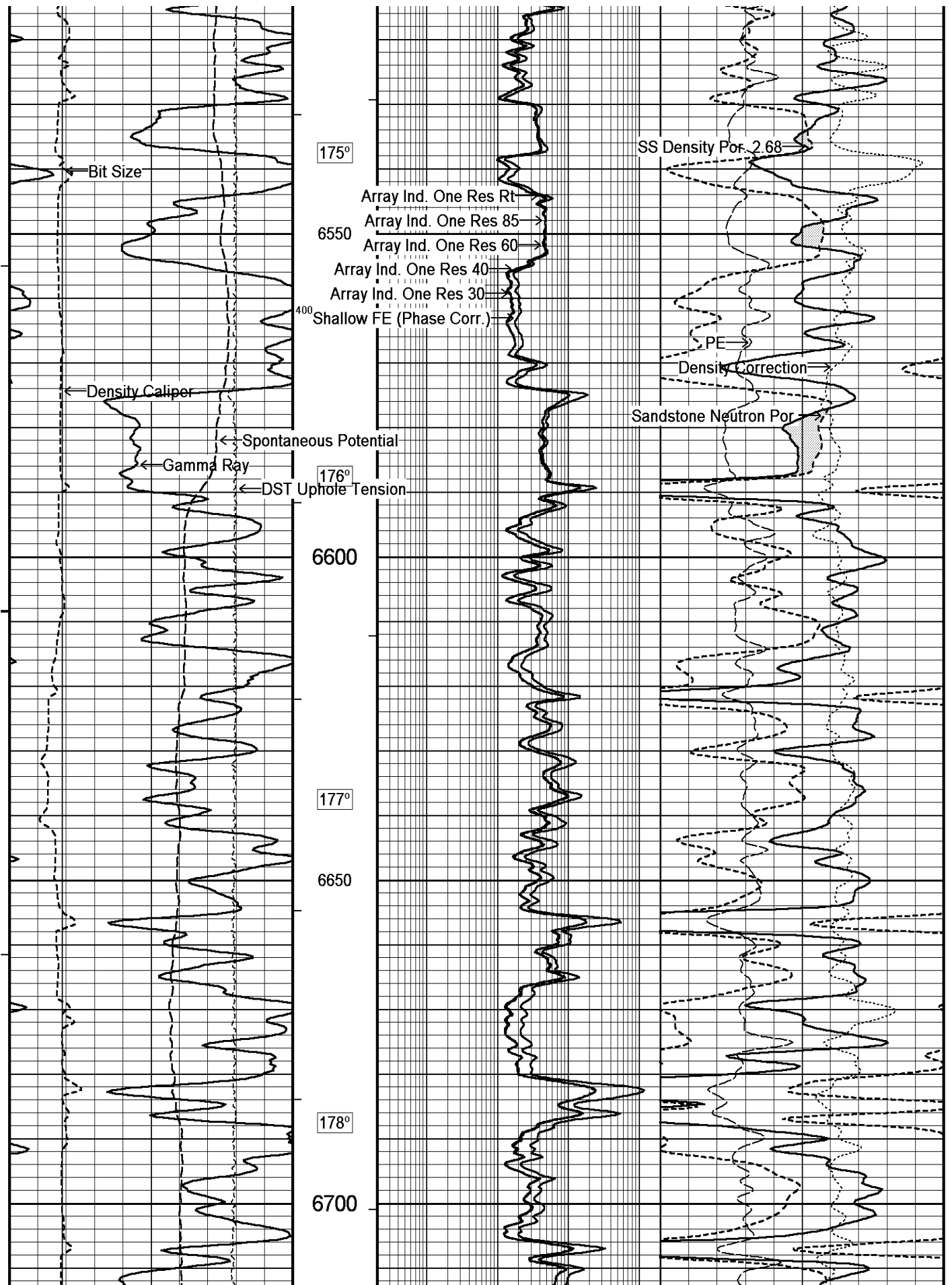


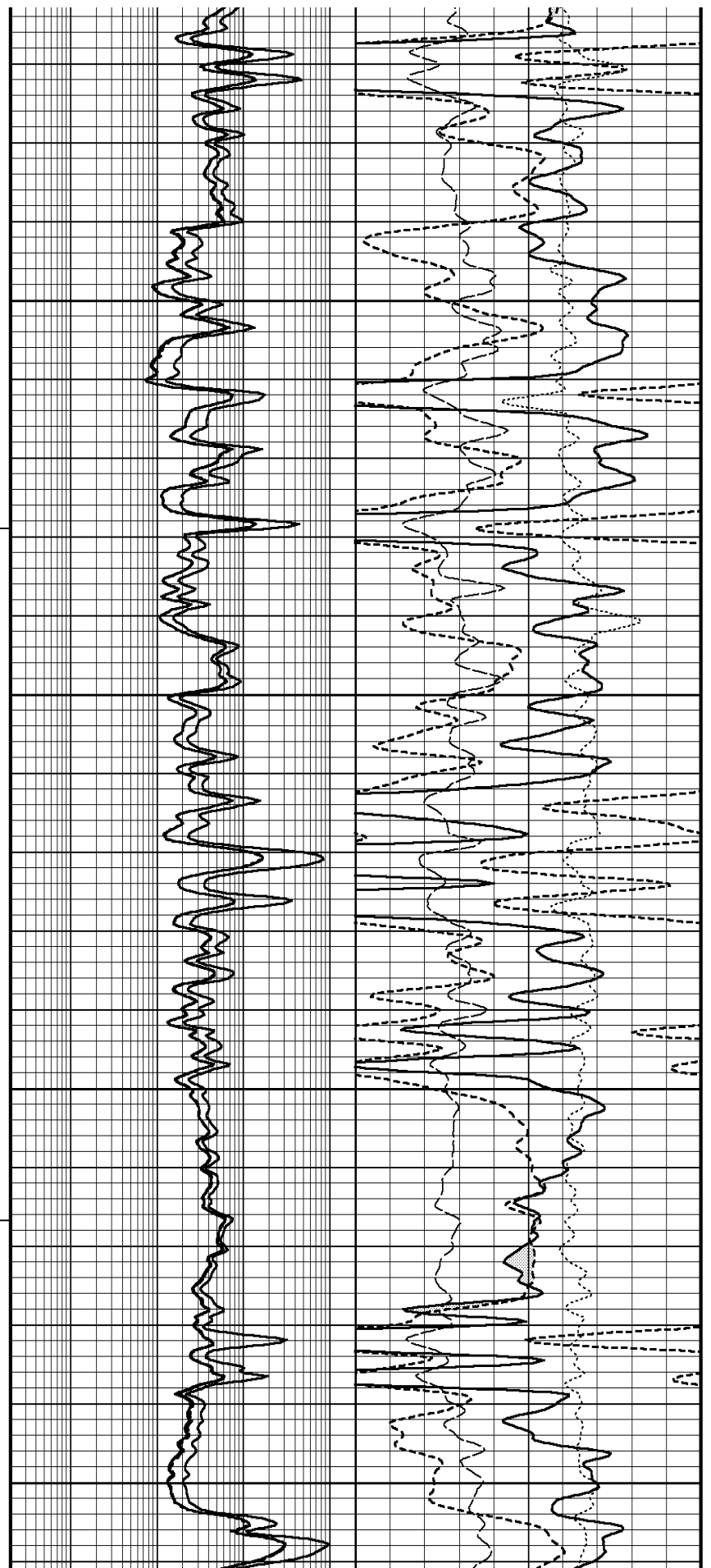
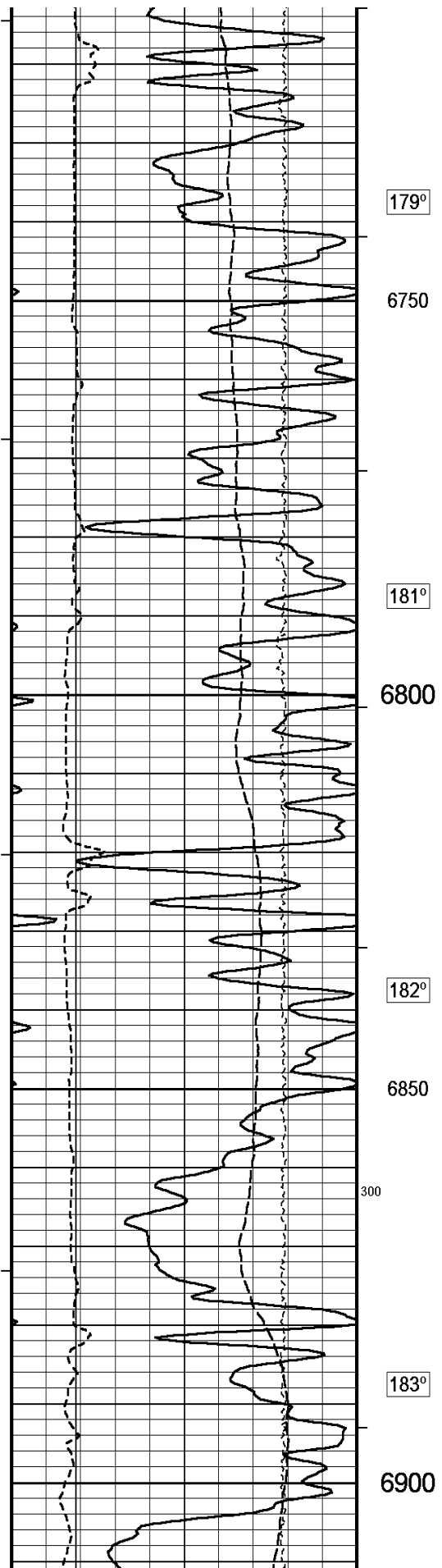


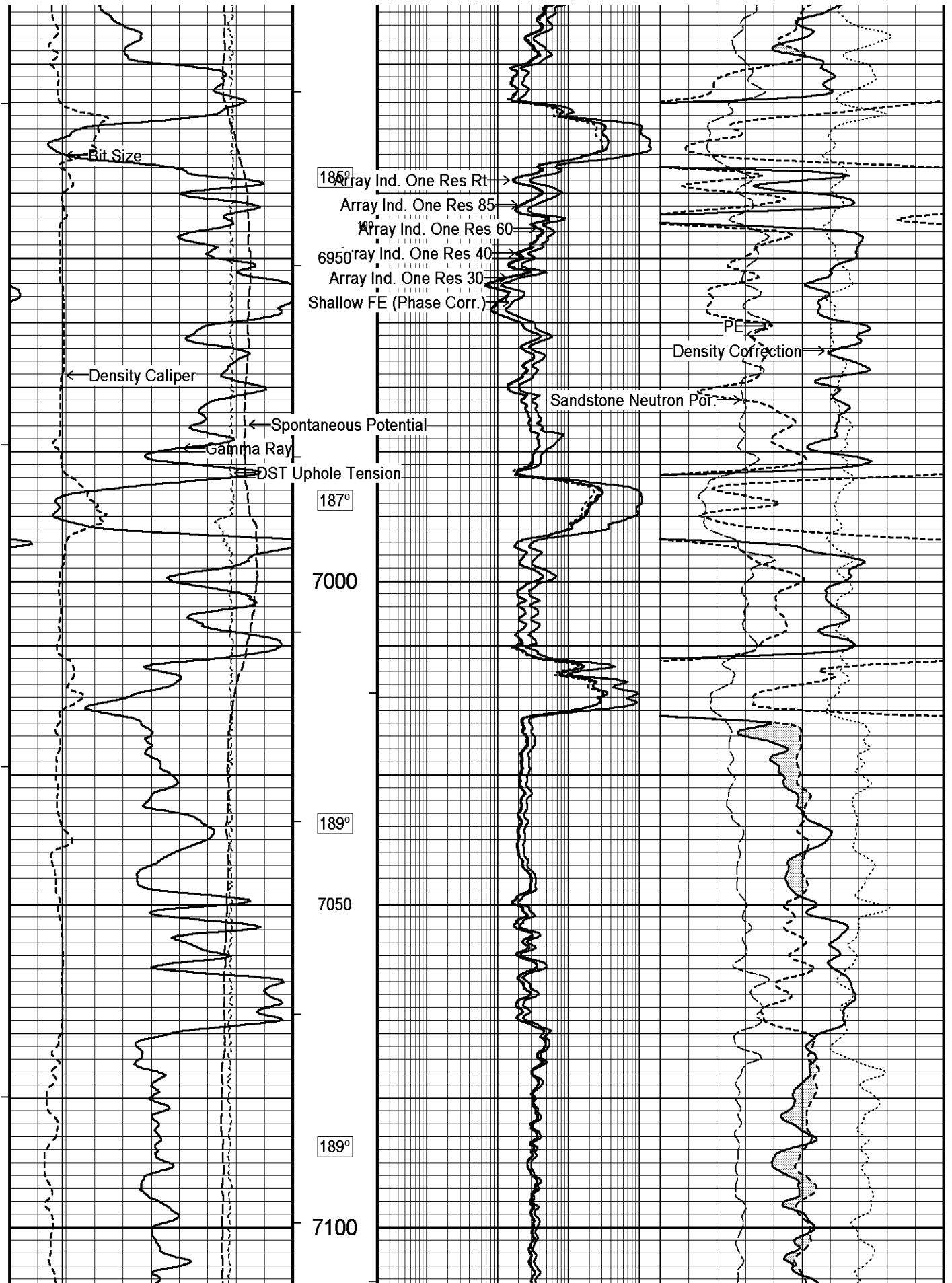


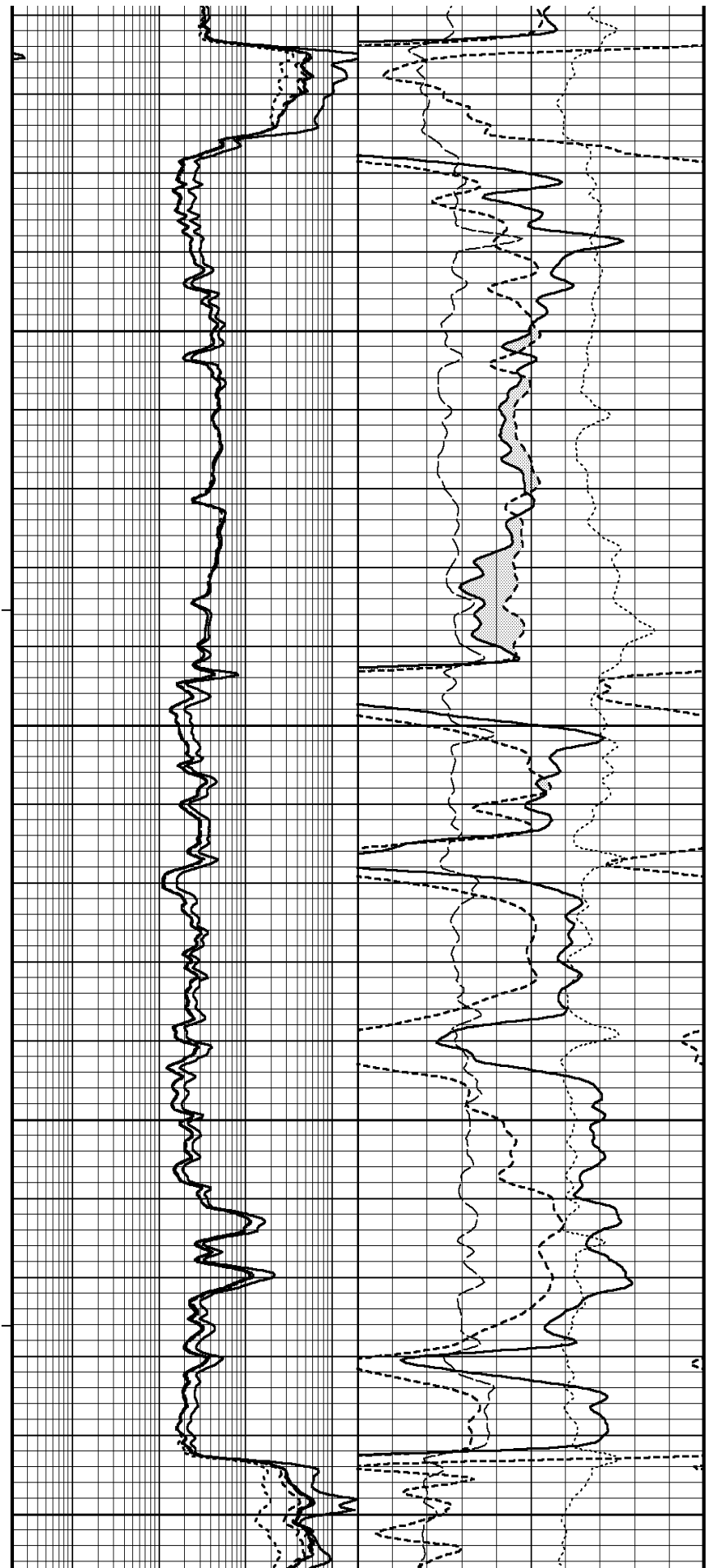
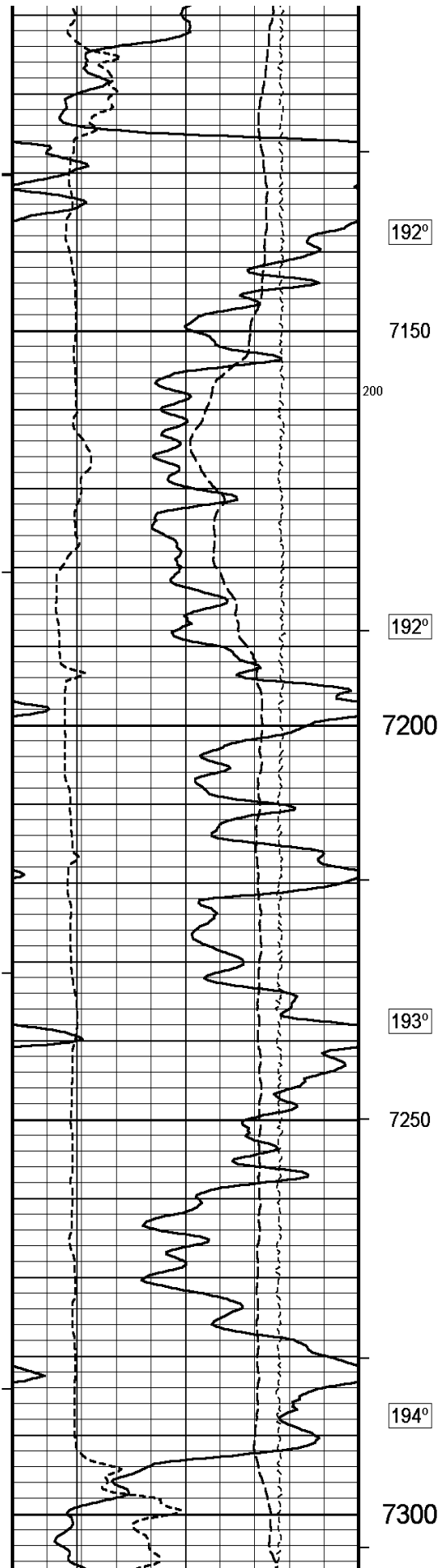


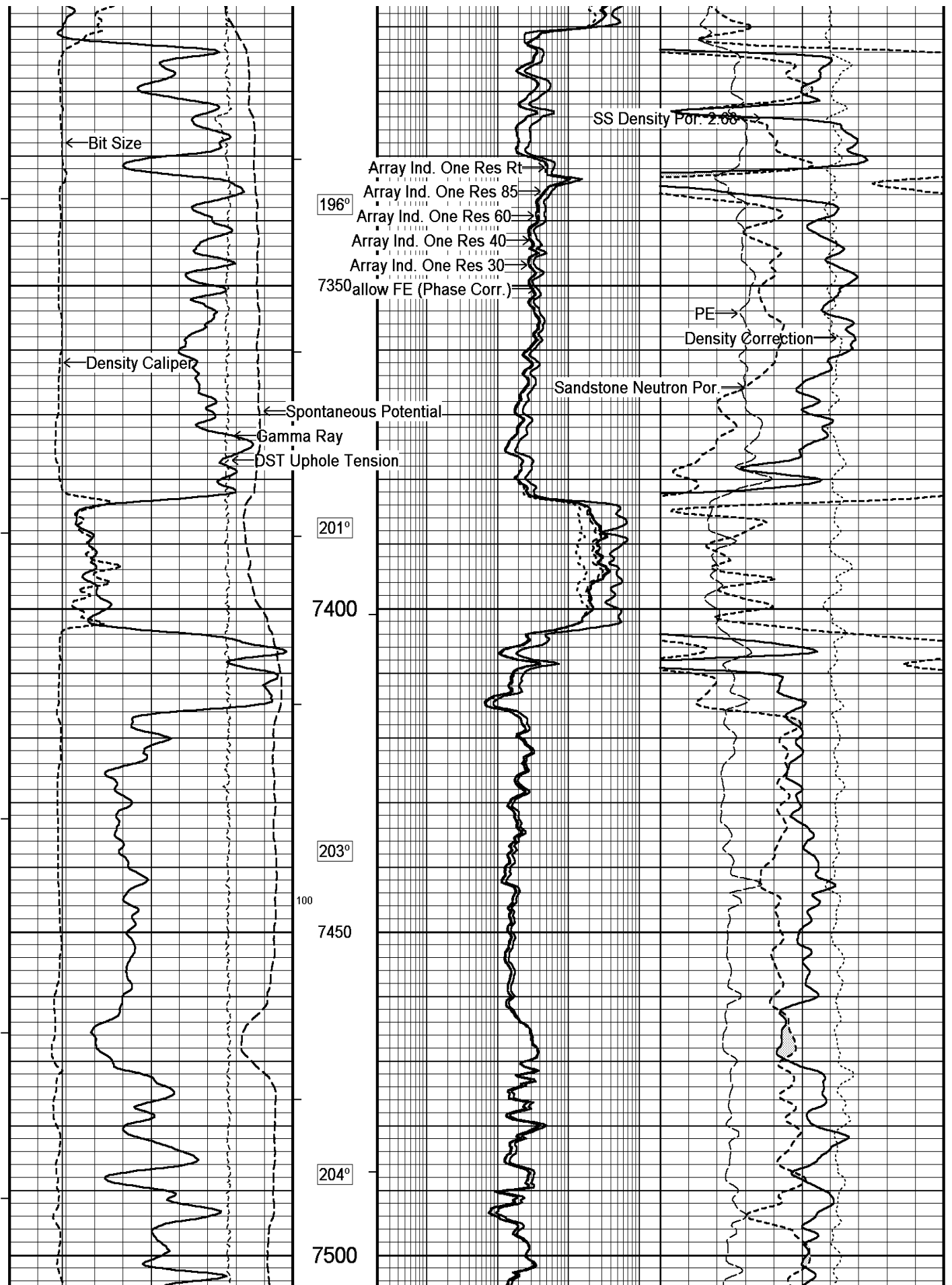


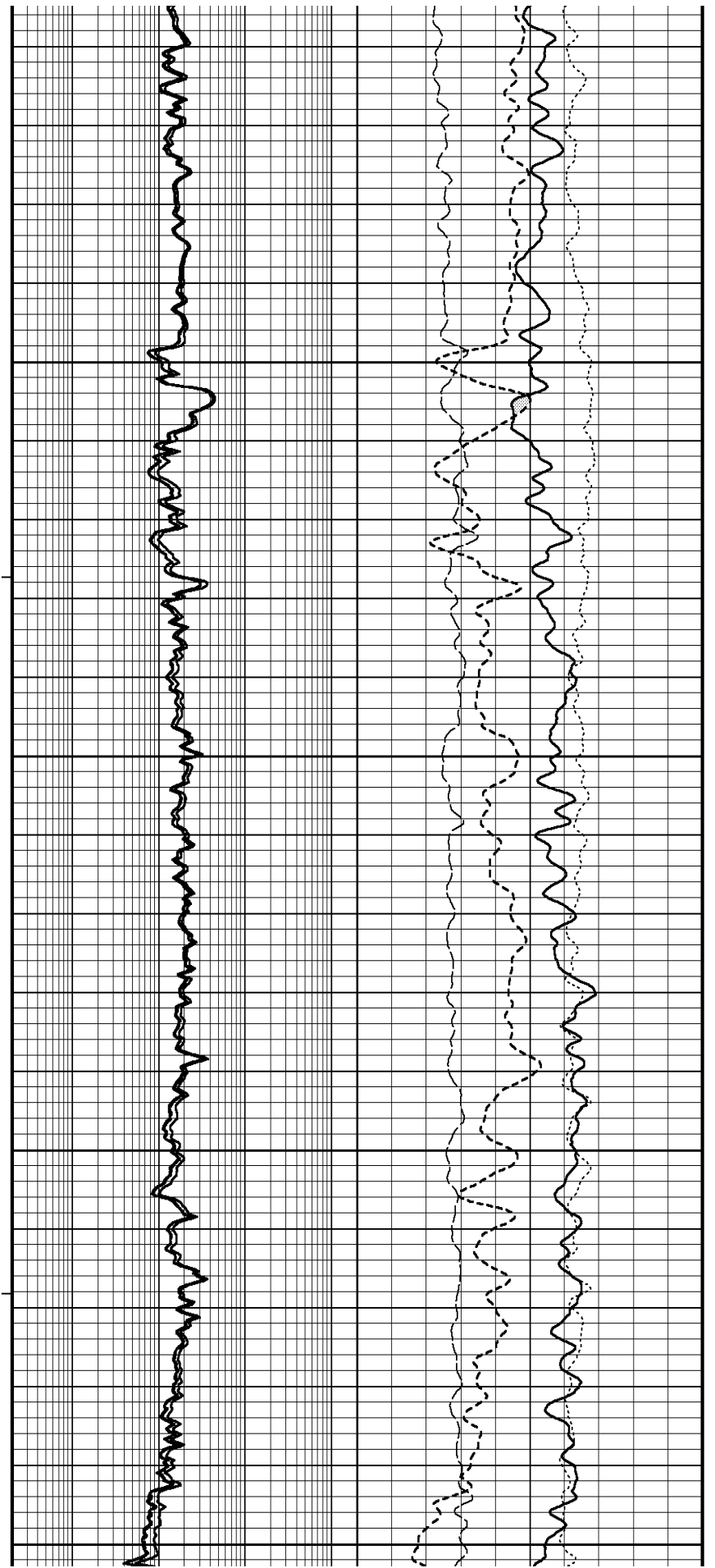
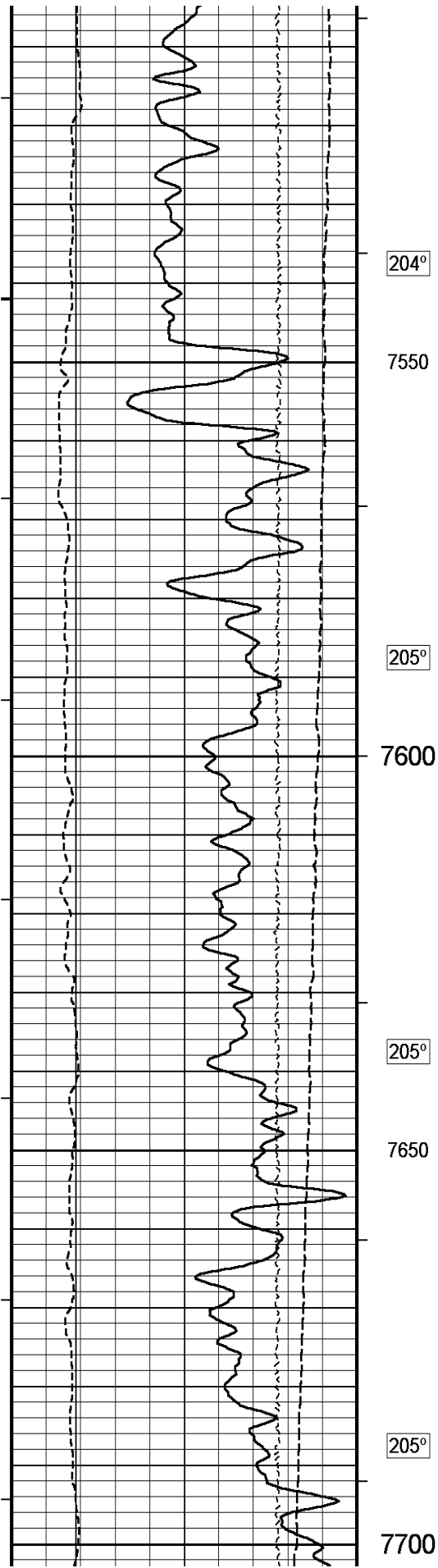


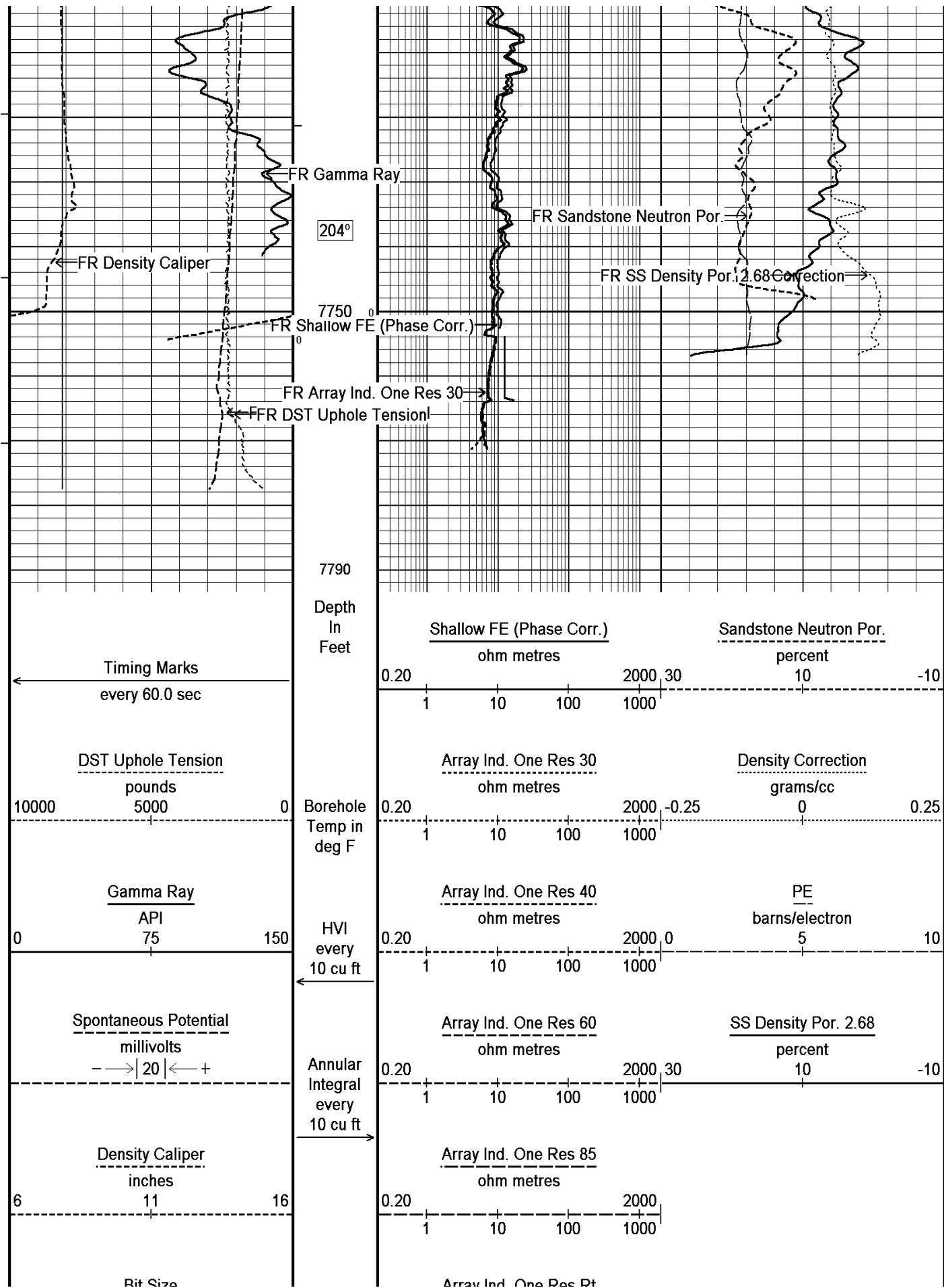












204°

7750

7790

Depth In Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Timing Marks every 60.0 sec

DST Uphole Tension pounds

Gamma Ray API

Spontaneous Potential millivolts

Density Caliper inches

Bit Size

Shallow FE (Phase Corr.) ohm metres

Sandstone Neutron Por. percent

Array Ind. One Res 30 ohm metres

Density Correction grams/cc

Array Ind. One Res 40 ohm metres

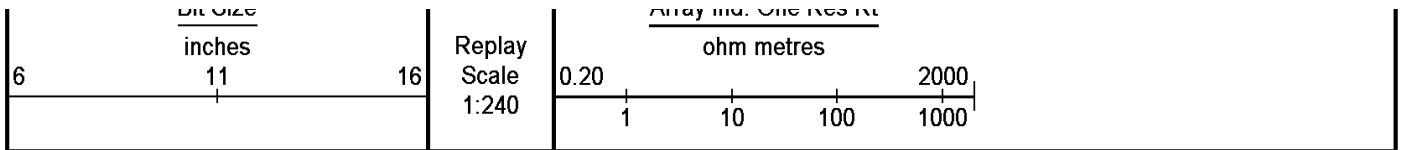
PE barns/electron

Array Ind. One Res 60 ohm metres

SS Density Por. 2.68 percent

Array Ind. One Res 85 ohm metres

Array Ind. One Res Pt

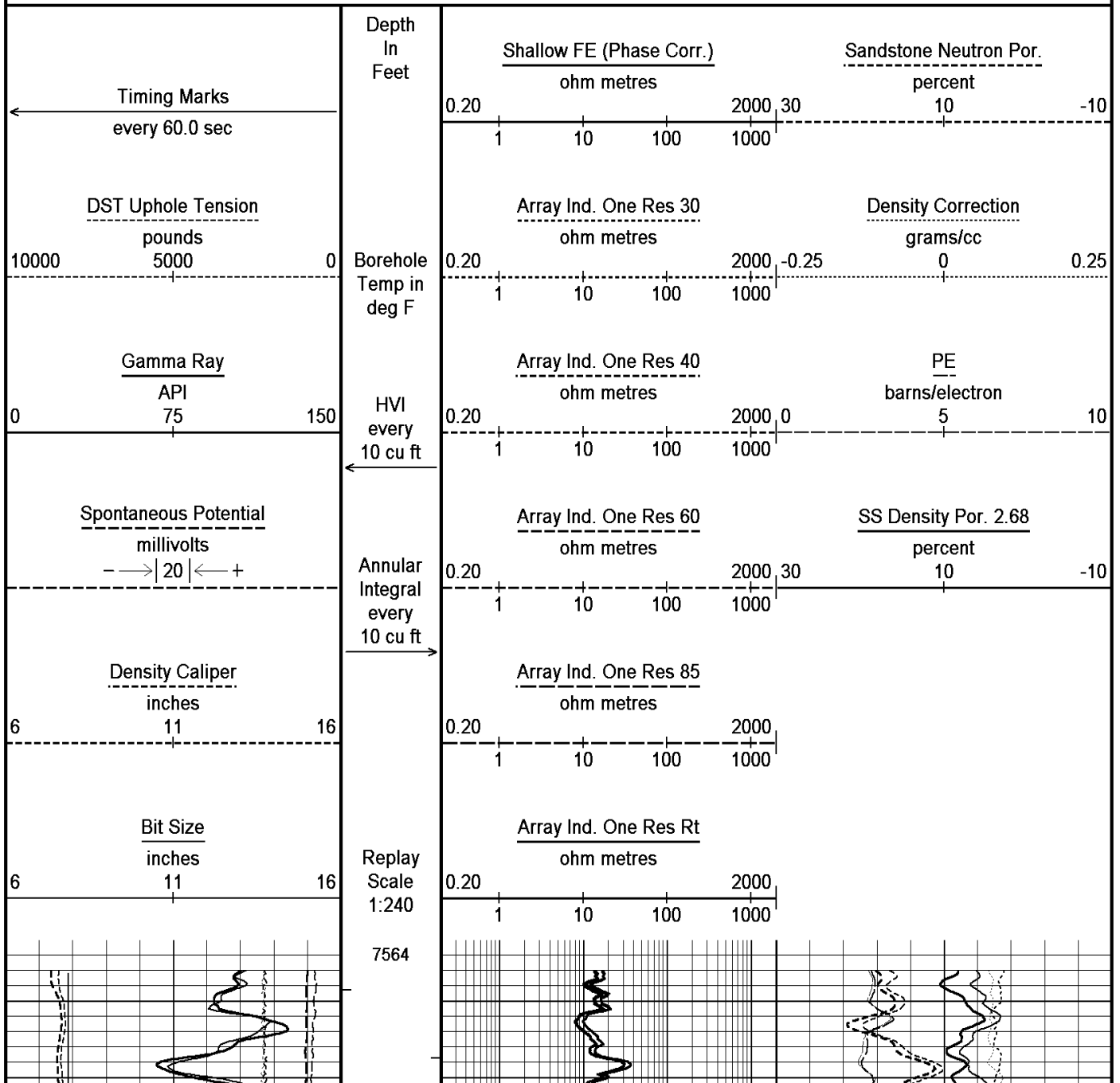


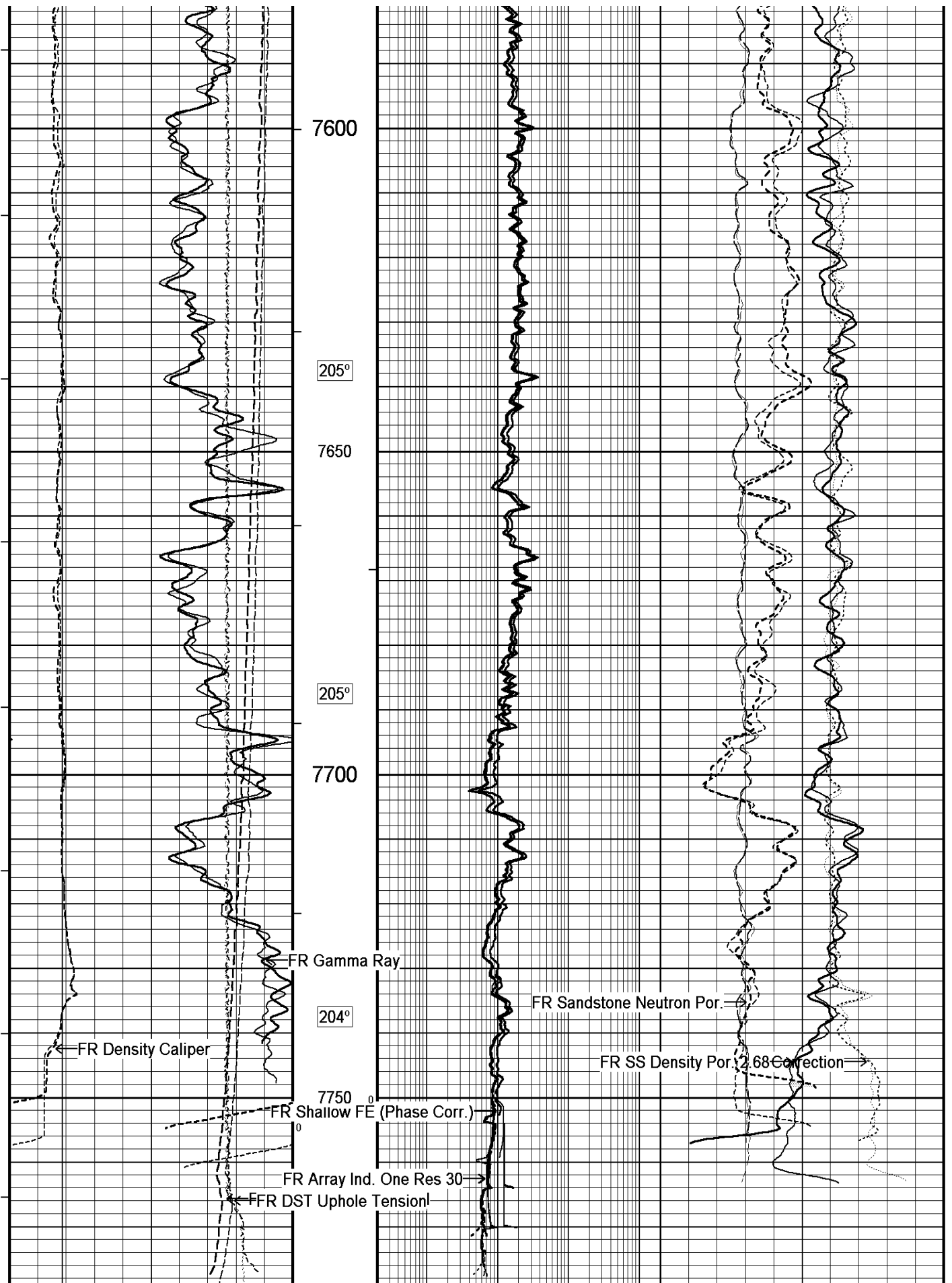
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 03-JUL-2011 11:32
 Filename: C:\DOCUME~1\WEATHE~1\LOCALS~1\Temp\Weatherford PreView\0MAIN.dta
 Recorded on 03-JUL-2011 07:07
 System Versions: Processed with 11.02.3186 Plotted with 11.02.2782

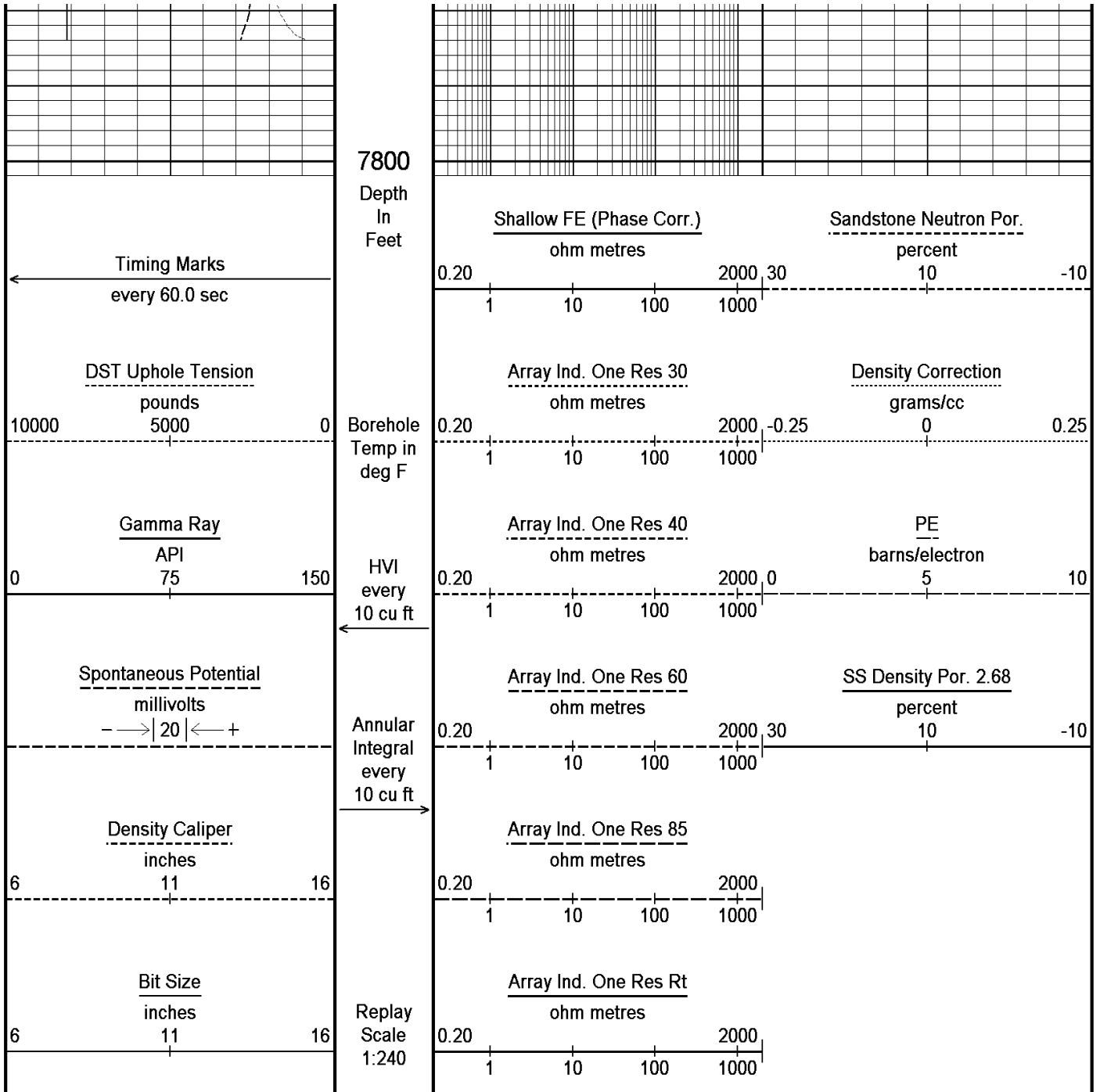
↑ **5 INCH MAIN LOG** ↑

↓ **OVERLAY** ↓

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 03-JUL-2011 11:32
 Filename: C:\DOCUME~1\WEATHE~1\LOCALS~1\Temp\Weatherford PreView\0MAIN.dta
 Recorded on 03-JUL-2011 07:07
 Filename: C:\DOCUME~1\WEATHE~1\LOCALS~1\Temp\Weatherford PreView\0REPEAT.dta
 Recorded on 03-JUL-2011 06:44
 System Versions: Processed with 11.02.3186 Plotted with 11.02.2782







Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 03-JUL-2011 11:32
 Filename: C:\DOCUME~1\WEATHE~1\LOCALS~1\Temp\Weatherford PreView\0\MAIN.dta Recorded on 03-JUL-2011 07:07
 Filename: C:\DOCUME~1\WEATHE~1\LOCALS~1\Temp\Weatherford PreView\0\REPEAT.dta Recorded on 03-JUL-2011 06:44
 System Versions: Processed with 11.02.3186 Plotted with 11.02.2782

↑ OVERLAY ↑

BEFORE SURVEY CALIBRATION		
C:\DOCUME~1\WEATHE~1\LOCALS~1\Temp\Weatherford PreView\0\Setup_Good.dta		
General Constants All 000		Last Edited on 03-JUL-2011,05:42
General Parameters		
Mud Resistivity	1.810	ohm-metres
Mud Resistivity Temperature	103.000	degrees F

Water Level	940.000	teet
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	6.250	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 01-JUL-2011 15:41
Reading No	Measured	Calibrated (lbs)	
1	15289.75	0.00	
2	17457.68	270.00	

High Resolution Temperature Calibration MCG-D.A 342			Field Calibration on 01-JUL-2011,13:23
	Measured	Calibrated(Deg F)	
Lower	10.00	10.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG-D.A 342		Last Edited on 8-DEC-2009,15:54
Pre-filter Length	11	

SP Calibration MCG-D.A 342			Field Calibration on 24-JUN-2011,23:18
	Measured	Calibrated (mV)	
Reference 1	103.8	100.2	
Reference 2	-96.9	-100.2	

Gamma Calibration MCG-D.A 342			Field Calibration on 03-JUL-2011 02:35
	Measured	Calibrated (API)	
Background	131	89	
Calibrator (Gross)	905	616	
Calibrator (Net)	774	527	

Gamma Constants MCG-D.A 342			Last Edited on 03-JUL-2011,02:55
Gamma Calibrator Number	GRC-174		
Mud Density	1.26	gm/cc	
Caliper Source for Processing	Bit Size		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

Neutron Calibration MDN-B.A 297			Base Calibration on 05-APR-2011 17:13
			Field Check on 12-MAY-2011,02:01
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	2850 89	3714 110	
Ratio	32.075	33.764	
Field Calibrator at Base			
		Calibrated (cps)	
		1502 2168	
Ratio		0.693	
Field Check			
		Calibrated (cps)	
		2272 2420	

Ratio	0.692	
Neutron Constants MDN-B.A 297		Last Edited on 03-JUL-2011,05:36
Neutron Source Id	P44384B	
Neutron Jig Number	6584	
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 09-JUN-2011 13:34 Field Check on 03-JUL-2011 04:05
Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	961.3	126.8
Base Check		280.4
Field Check		280.8
FE Constants MFE-B.A 179		Last Edited on 03-JUL-2011,09:46
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 24-JUN-2011,23:21
	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00
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 03-JUL-2011 04:07
Base Calibration		
Test Loop Calibration		
Channel	Low	High
1	17.5	487.4
2	5.9	392.1
3	3.8	259.5
4	2.0	137.2
Array Temperature	71.1	Deg F
Channel	Base Check (mmho/m)	Field Check (mmho/m)

	Low	High	Low	High
1	0.0	0.0	12.3	3734.3
2	0.0	0.0	30.1	3445.0
3	0.0	0.0	28.2	3059.1
4	0.0	0.0	19.1	2020.6
Deep	0.0	0.0	16.5	2016.6
Medium	0.0	0.0	41.8	4069.9
Shallow	0.0	0.0	46.0	5043.1
Array Temperature		0.0	67.3	Deg F

Induction Constants MAI-B.A 301

Last Edited on 03-JUL-2011,09:44

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	

Photo Density Calibration MPD-C.A 298

Base Calibration on 12-JUN-2011 14:53

Field Check on 03-JUL-2011 04:03

Density Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Base Calibration				
Reference 1	50099	16826	53237	19445
Reference 2	23038	2568	25135	2545
Field Check at Base				
	1239.2	1382.1		
Field Check				
	1237.6	1381.3		

PE Calibration				
Base Calibration		Measured		Calibrated
	WS	WH	Ratio	Ratio
Background	225	1107		
Reference 1	17368	49908	0.351	0.320
Reference 2	6575	22894	0.291	0.274
Field Check at Base				
	225.4	1107.1		
Field Check				
	224.2	1107.5		

Density Constants MPD-C.A 298

Last Edited on 03-JUL-2011,02:54

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	1.26	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	Advanced	
Matrix Density (gm/cc)	Depth (ft)	
2.65	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	
0.00	0.00	

Caliper Calibration MPD-C.A 298

Base Calibration on 12-JUN-2011 15:04
Field Calibration on 01-JUL-2011,13:25

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	17760	3.98
2	26044	5.96
3	33840	7.96
4	42001	9.86
5	51232	11.88
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.95	7.96

AFTER SURVEY CALIBRATION

C:\DOCUME~1\WEATHE~1\LOCALS~1\Temp\Weatherford PreView\0\Setup_Good.dta

Gamma Check MCG-D.A 342

Field Calibration on 03-JUL-2011 02:35
After Survey Check on 03-JUL-2011,10:37

	Before (API)	After (API)
Background	89	90

Calibrator (Gross)	616	617
Calibrator (Net)	527	527
Neutron Check MDN-B.A 297		Before Survey Check on 12-MAY-2011,02:01 After Survey Check on 03-JUL-2011,10:34
	Near (cps)	Far (cps)
	Before After	Before After
	2372 2407	3430 3455
	Ratio	
	Before After	
	0.692 0.697	
FE Check MFE-B.A 179		Before Survey Check 03-JUL-2011 04:05 After Survey Check on 03-JUL-2011 09:48
	Before (ohm-m)	After (ohm-m)
	280.8	280.6
Induction Check MAI-B.A 301		Before Survey Check on 03-JUL-2011 04:07 After Survey Check on 03-JUL-2011 09:46
Channel	Before Survey (mmho/m)	After Survey (mmho/m)
	Low High	Low High
1	12.3 3734.3	13.3 3732.4
2	30.1 3445.0	30.3 3442.3
3	28.2 3059.1	28.2 3056.6
4	19.1 2020.6	19.1 2018.7
Deep	16.5 2016.6	16.6 2014.9
Medium	41.8 4069.9	41.7 4066.5
Shallow	46.0 5043.1	46.3 5039.2
Array Temperature	67.3	84.8 Deg F
Photo Density Check MPD-C.A 298		Before Survey Check on 03-JUL-2011 04:03 After Survey Check on 03-JUL-2011 09:52
Density Check		
	Near	Far
	Before After	Before After
	1237.6 1242.1	1381.3 1386.1
PE Check		
	Before	After
WS	224.2	225.6
WH	1107.5	1107.4

DOWNHOLE EQUIPMENT

C:\DOCUME~1\WEATHE~1\LOCALS~1\Temp\Weatherford PreView\0\Setup_Good.dta

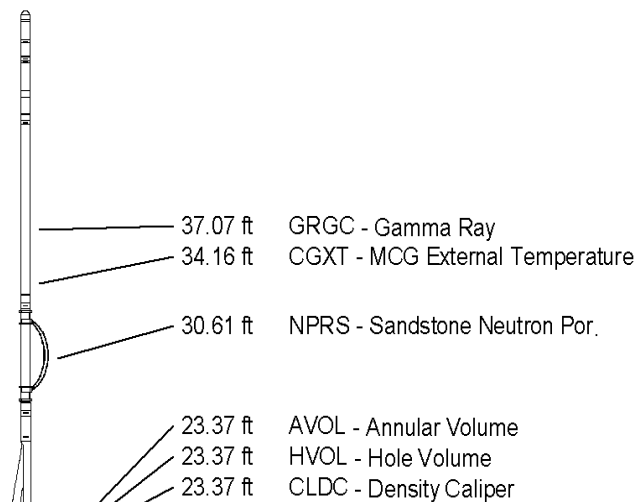
MCB-A 11B Tension Cablehead
 MCB-A 95 LG: 2.18 ft WT: 19.8 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 213 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

Compact Comms Gamma
 MCG-D.A 342 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Neutron
 MDN-B.A 297 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
 MPD-C.A 298 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

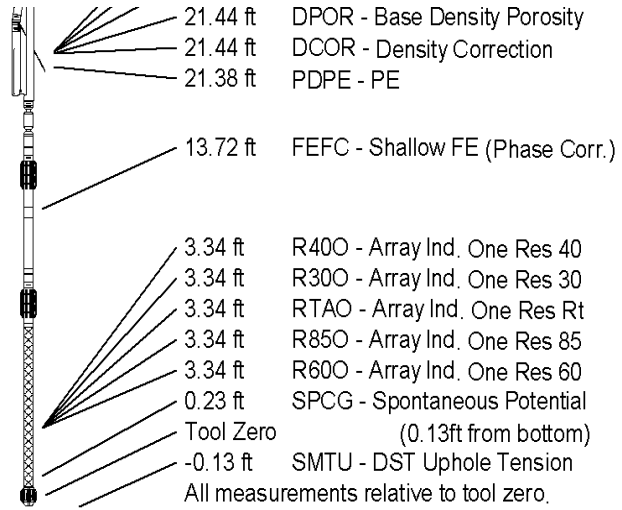


SKJ-D.A Compact Knuckle Joint
 SKJ-D.A 115 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

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: 46.83 ft Weight: 368.2 lb



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

Elevation Kelly Bushing	5553.00	feet	First Reading	7763.00
Elevation Drill Floor	5552.00	feet	Depth Driller	7770.00 feet
Elevation Ground Level	5530.00	feet	Depth Logger	7766.00 feet



Weatherford®

COMPACT TRIPLE COMBO
 QUICKLOOK
 LOG

