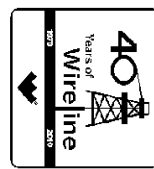




**Weatherford**

**COMPACT TRIPLE COMBO  
QUICKLOOK  
LOG**

COMPANY **BILL BARRETT CORPORATION**  
WELL **CB-TG LAND 11B-20-692**  
FIELD **MAMM CREEK**  
PROVINCE/COUNTY **GARFIELD**  
COUNTRY/STATE **U.S.A. / COLORADO**  
LOCATION **SHL: 674' FNL & 2568' FEL  
BHL: 753' FNL & 660 FWL**



SEC **20** TWP **6S** RGE **92W** Other Services  
API Number  
Permit Number

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

Elevations: KB 5553.00  
DF 5552.00  
GL 5530.00

Date	11-JUN-2011		
Run Number	ONE		
Depth Driller	8090.00	feet	
Depth Logger	8085.00	feet	
First Reading	8082.00		
Last Reading	855.00		
Casing Driller	858.00	feet	
Casing Logger	855.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	LSND		
Density / Viscosity	10.50 lb/USg	51.00 CP	
PH / Fluid Loss	9.80	6.80 ml/30Min	
Sample Source	FLOW LINE		
Rm @ Measured Temp	3.10 @ 93.5	ohm-m	
Rmf @ Measured Temp	2.48 @ 93.5	ohm-m	
Rmc @ Measured Temp	3.72 @ 93.5	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.54 @191.0	ohm-m	
Time Since Circulation	6 HOURS		
Max Recorded Temp	191.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13037	RK SPR	
Recorded By	J. PAULSON		
Witnessed By	J. BOYD		

BOREHOLE RECORD			Last Edited: 10-JUN-2011 17:28
Bit Size inches	Depth From feet	Depth To feet	
8.750	858.00	5751.00	
7.875	5751.00	8090.00	

CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	858.00	36.00

**REMARKS**

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

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

2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

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

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 3020 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2220 CU.FT.

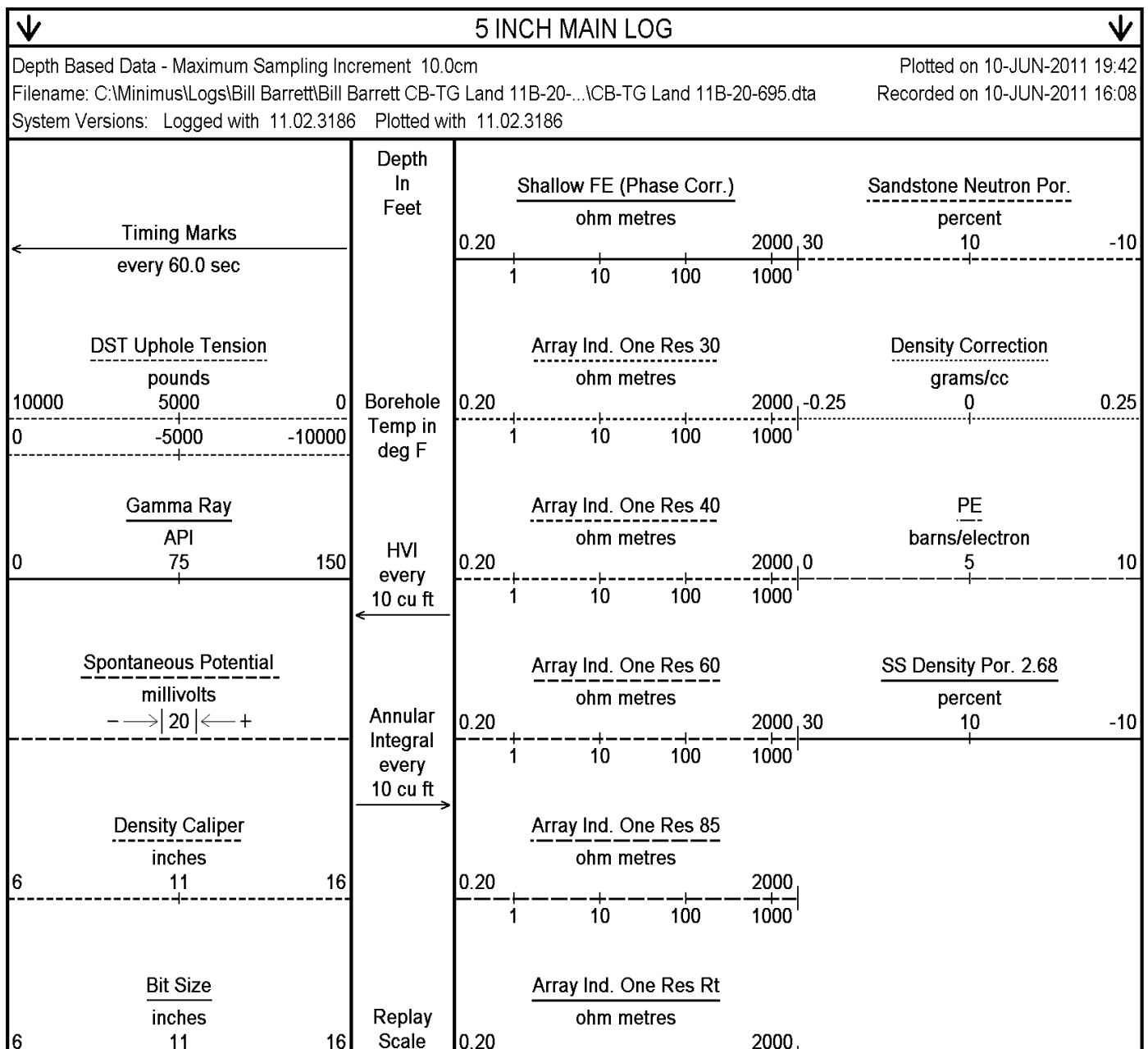
ENGINEER(S): J. PAULSON

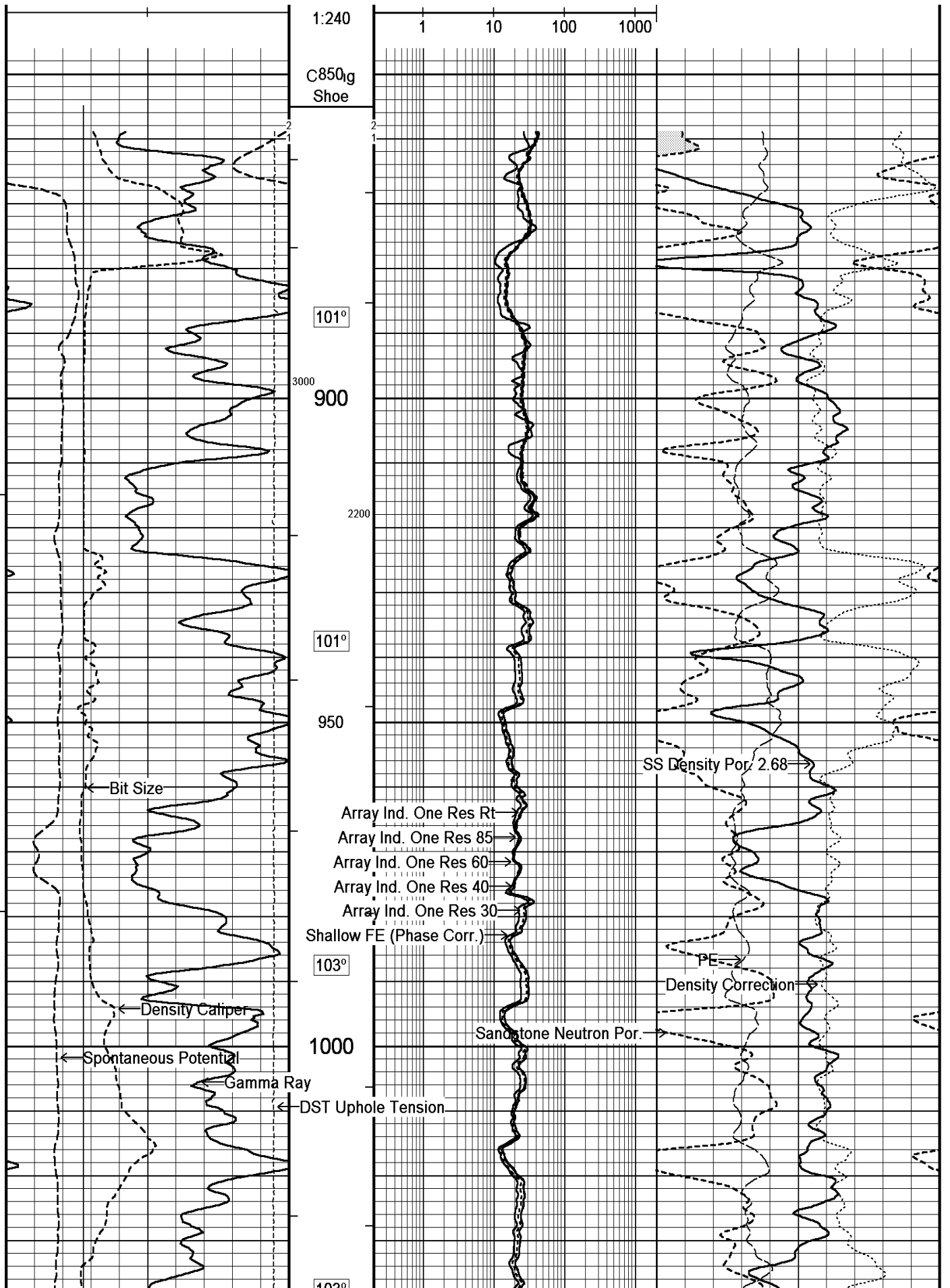
OPERATOR(S): J. RATLIFF

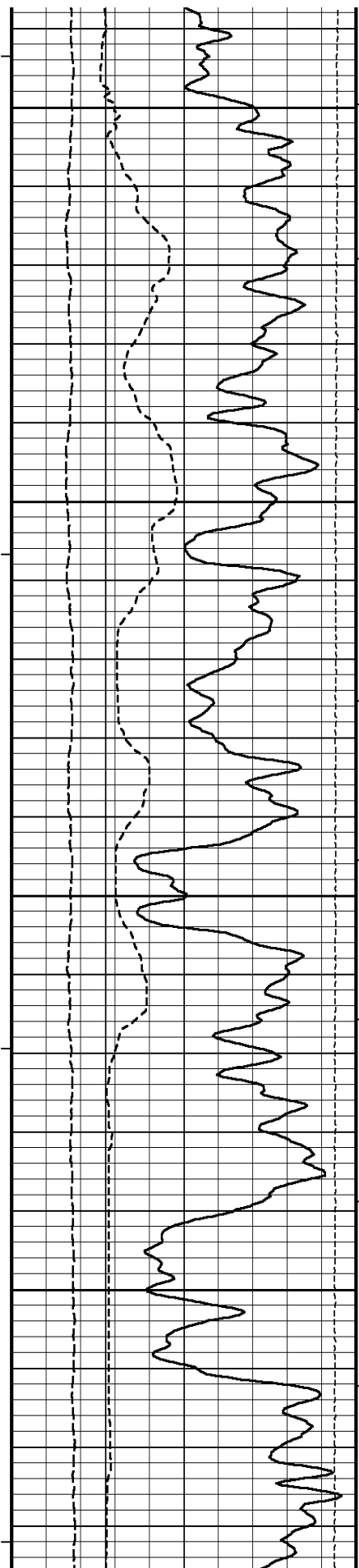
SERVICE ORDER: #3529651

RIG: NABORS M37

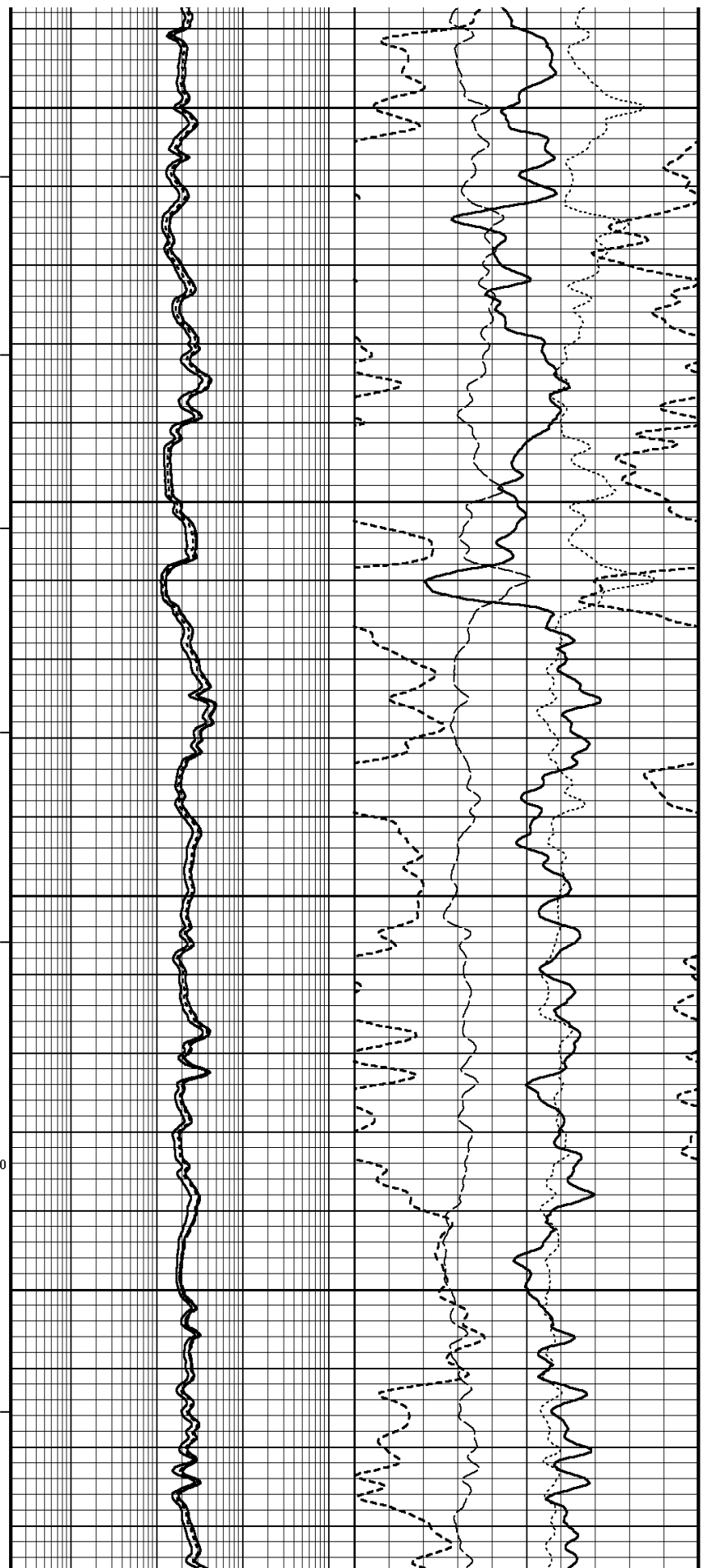
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

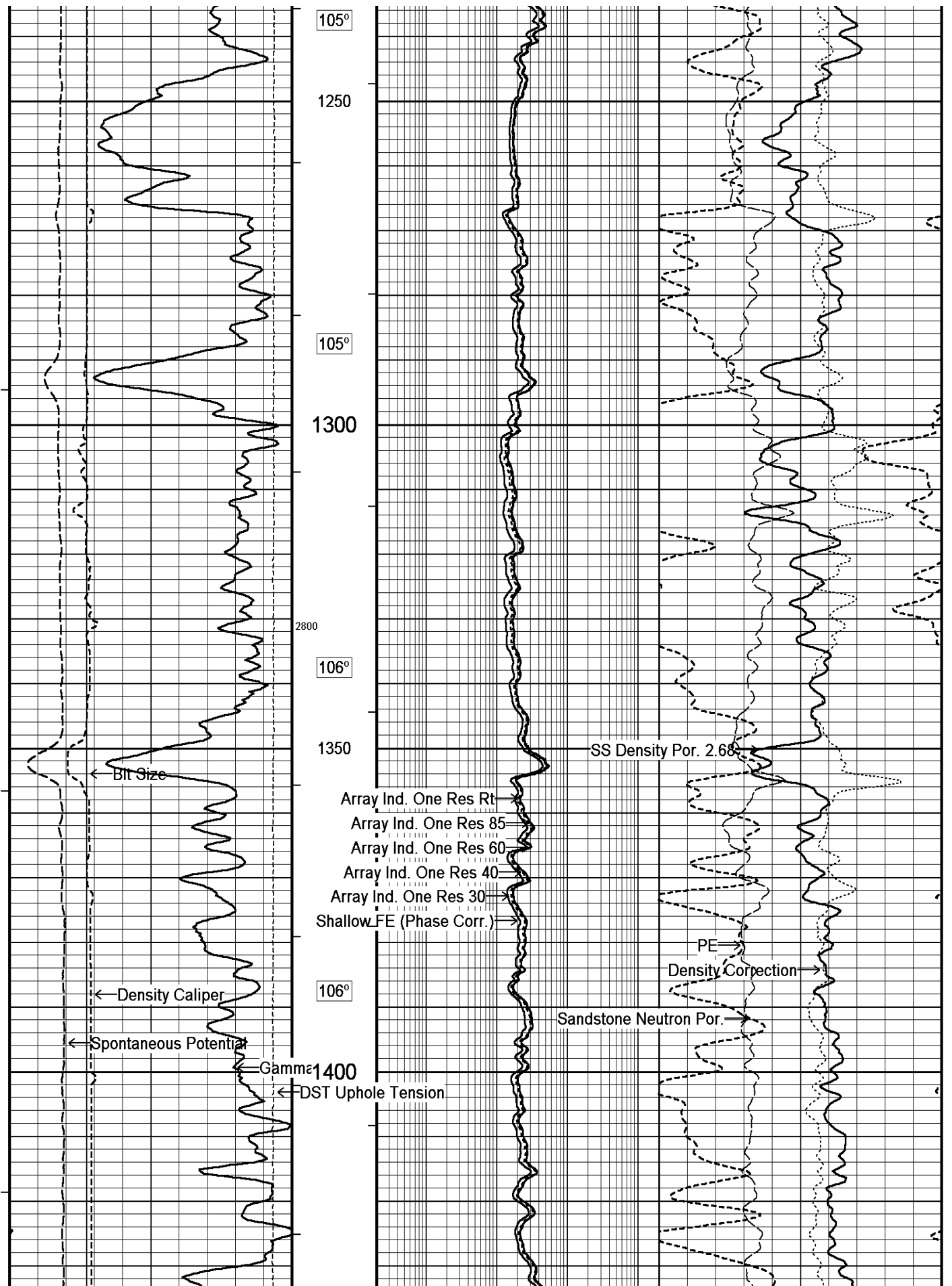


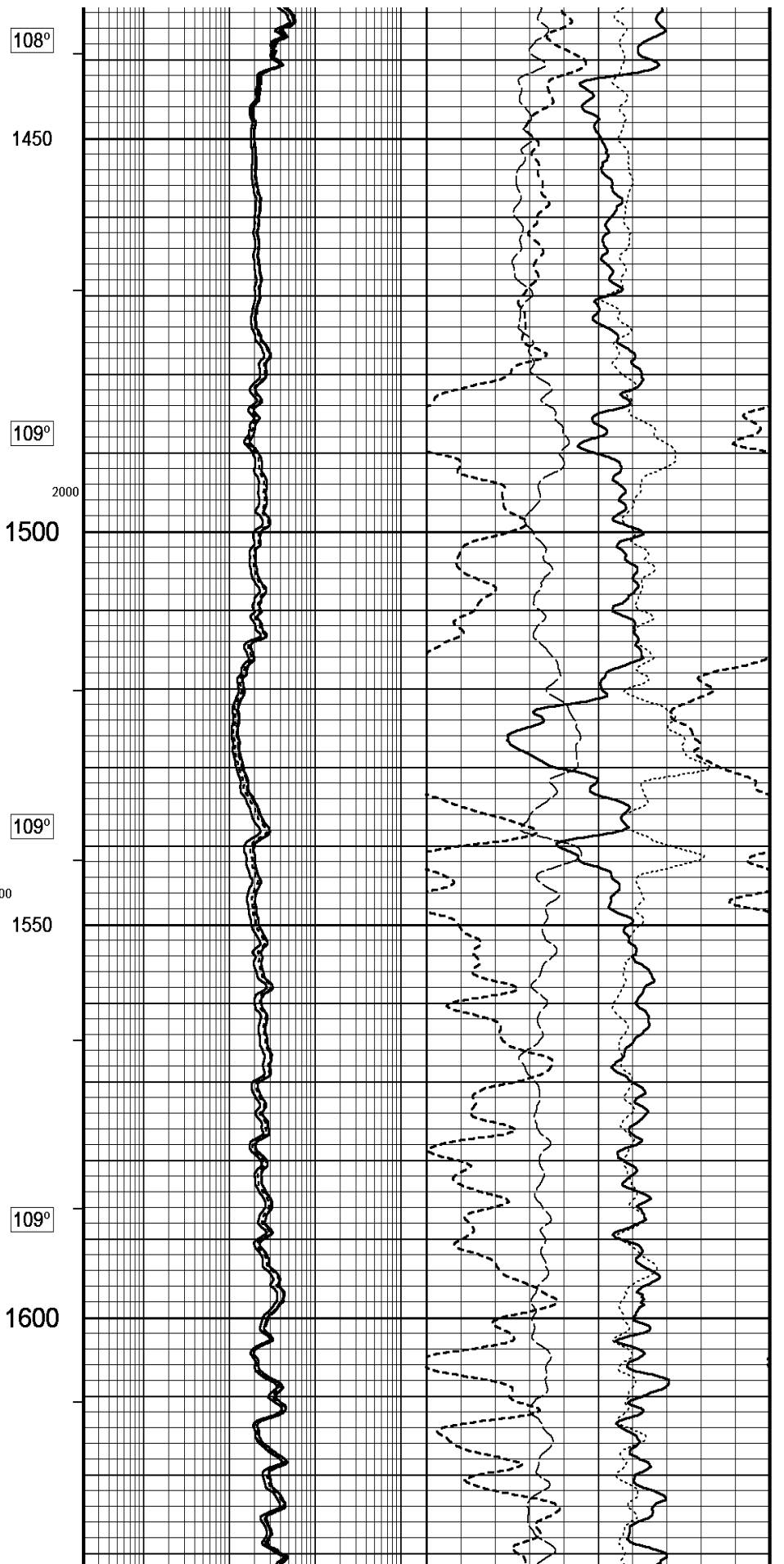
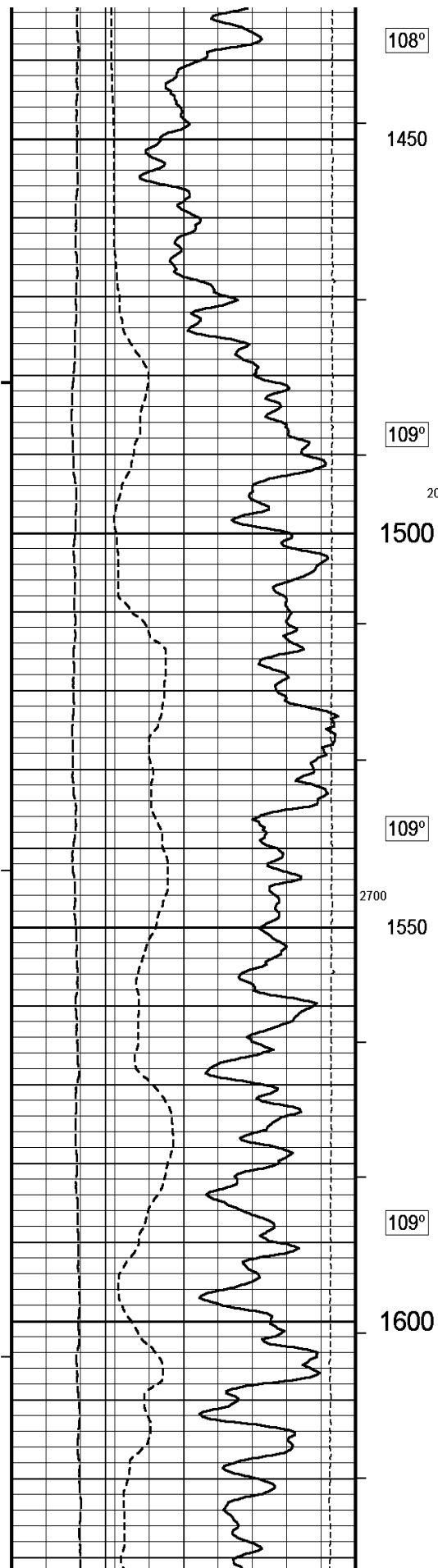


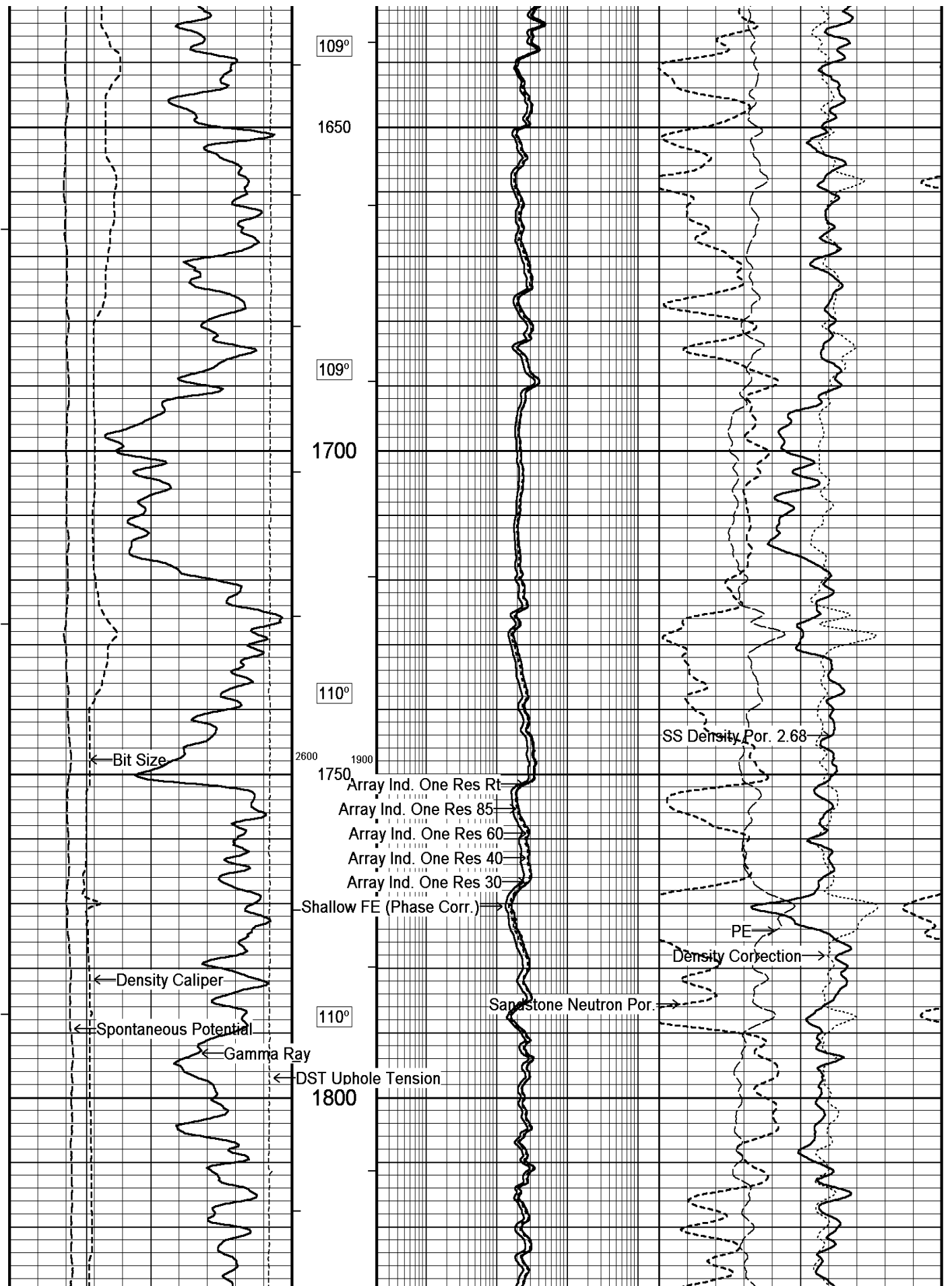


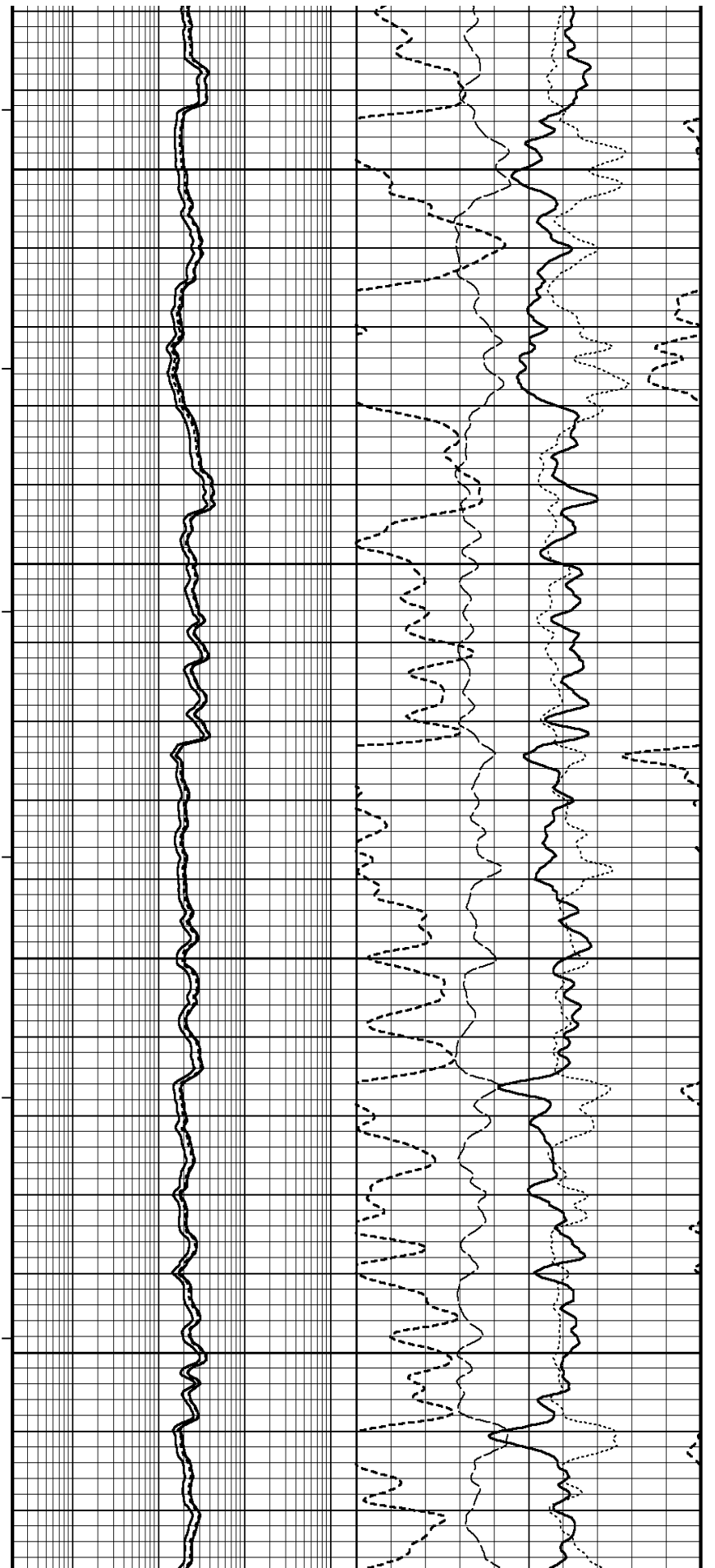
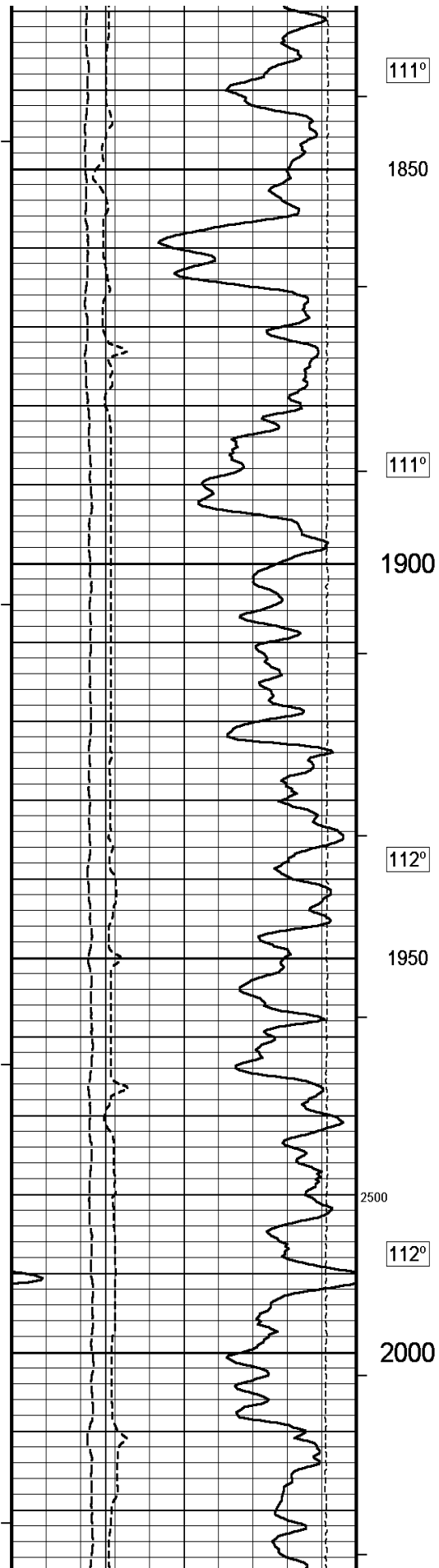
105°  
1050  
104°  
1100  
2900  
104°  
1150  
2100  
104°  
1200

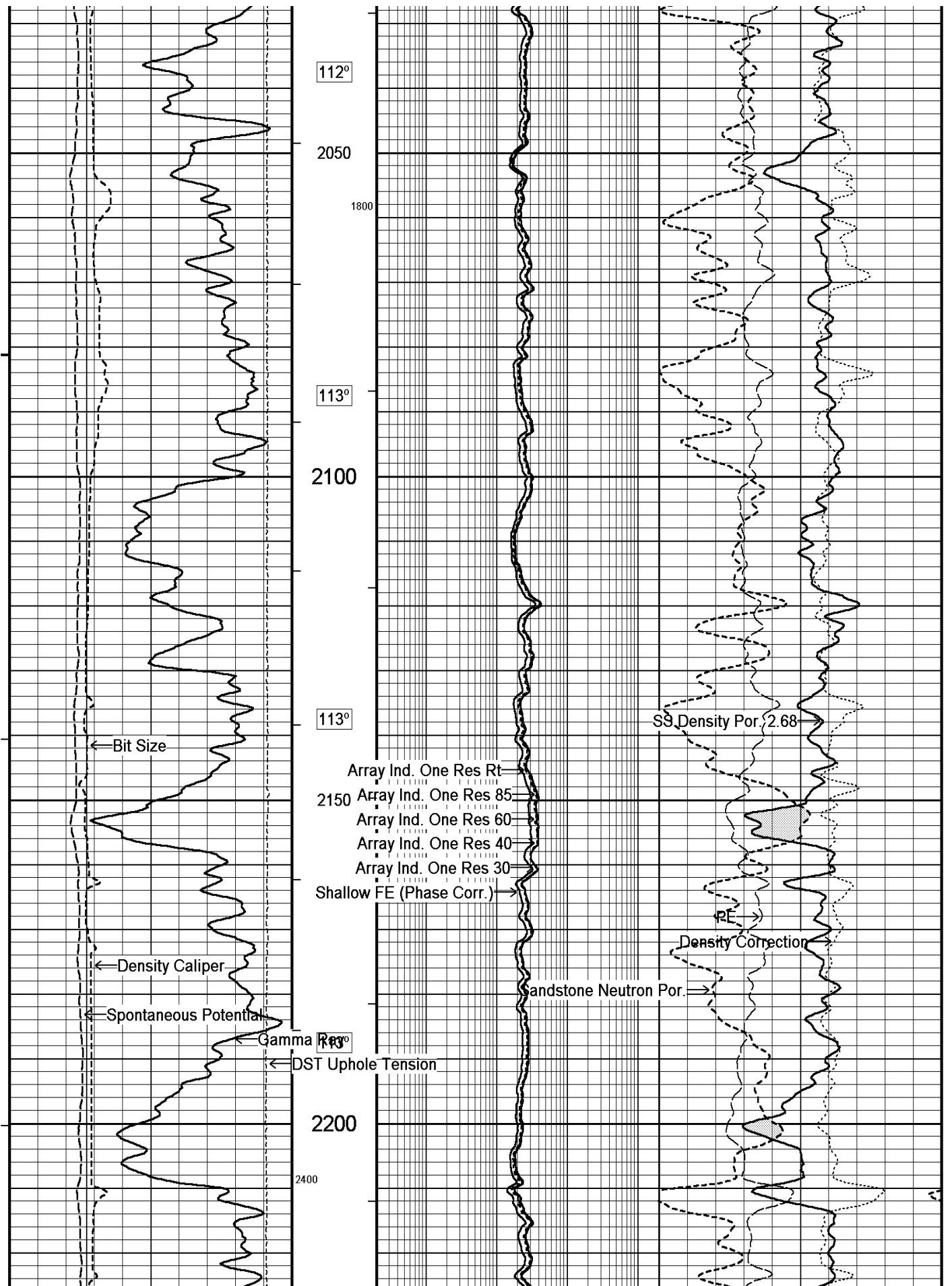


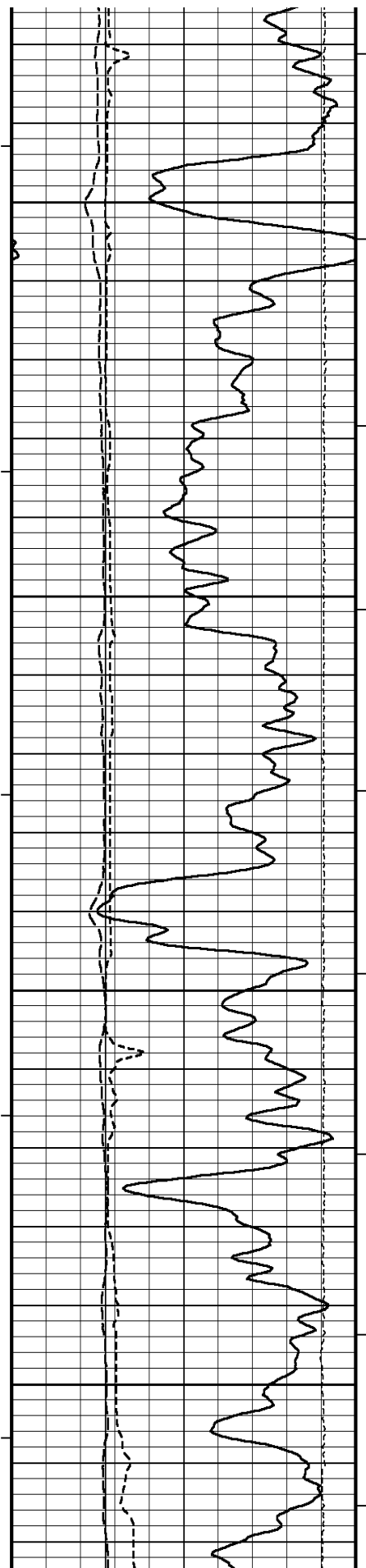












114°

2250

114°

2300

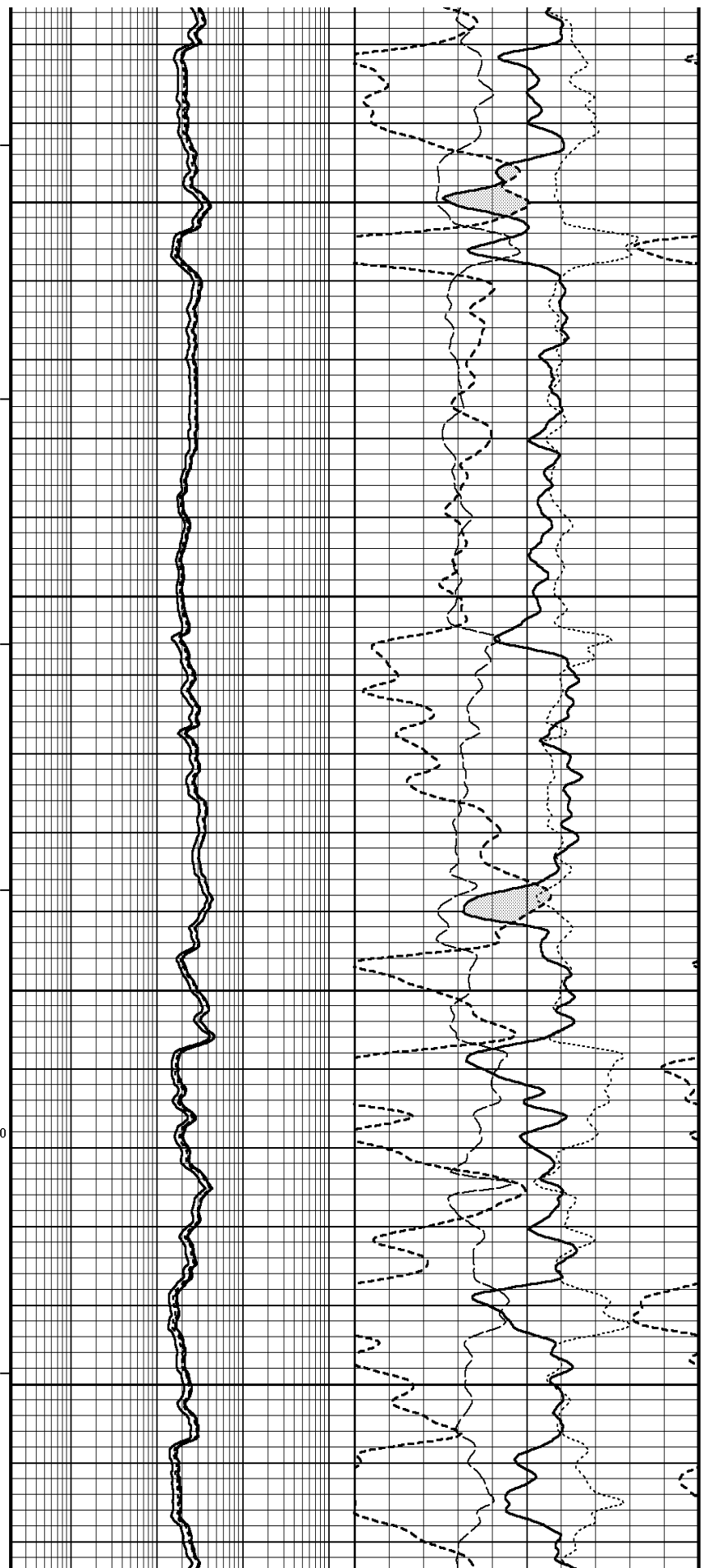
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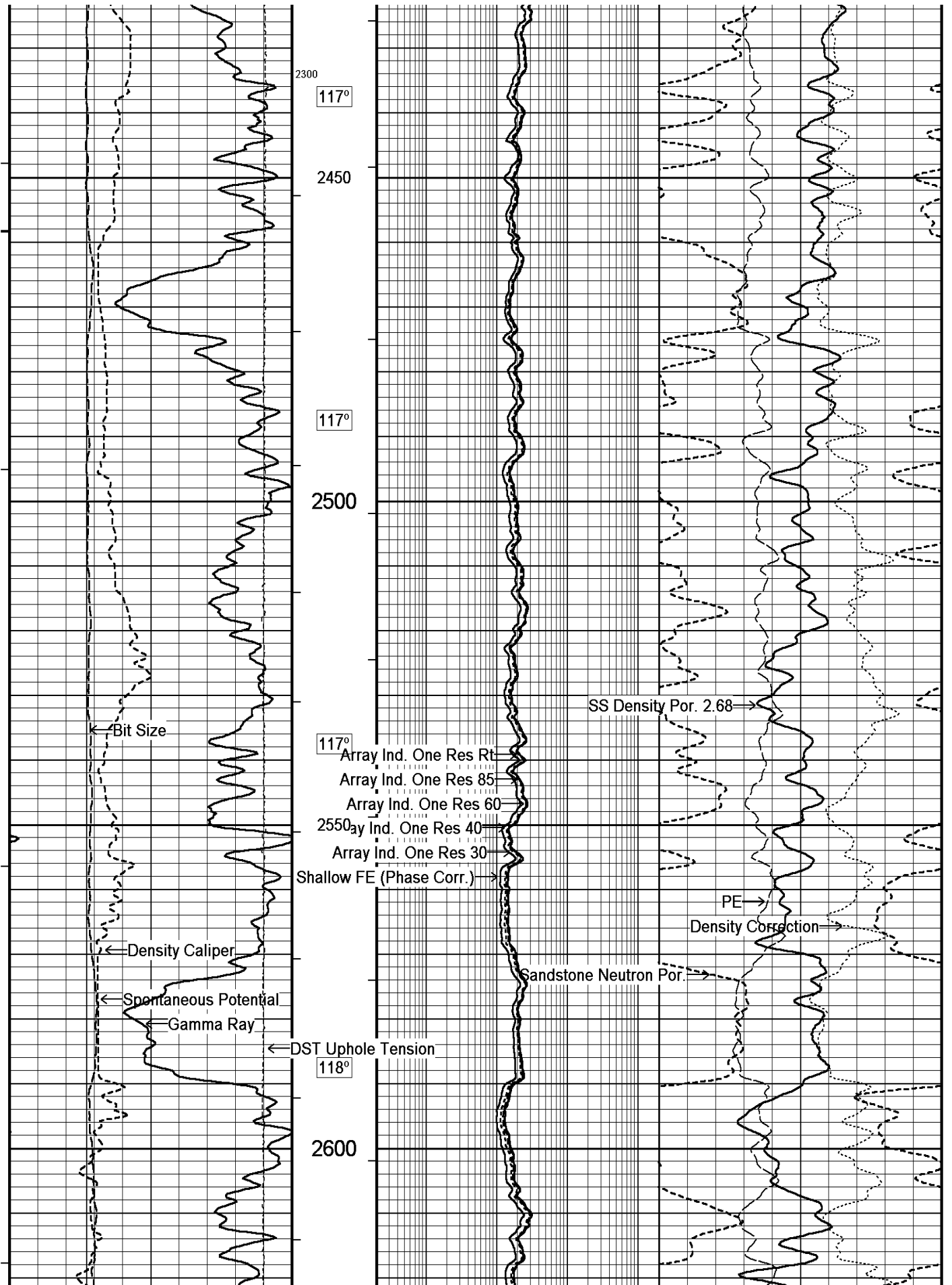
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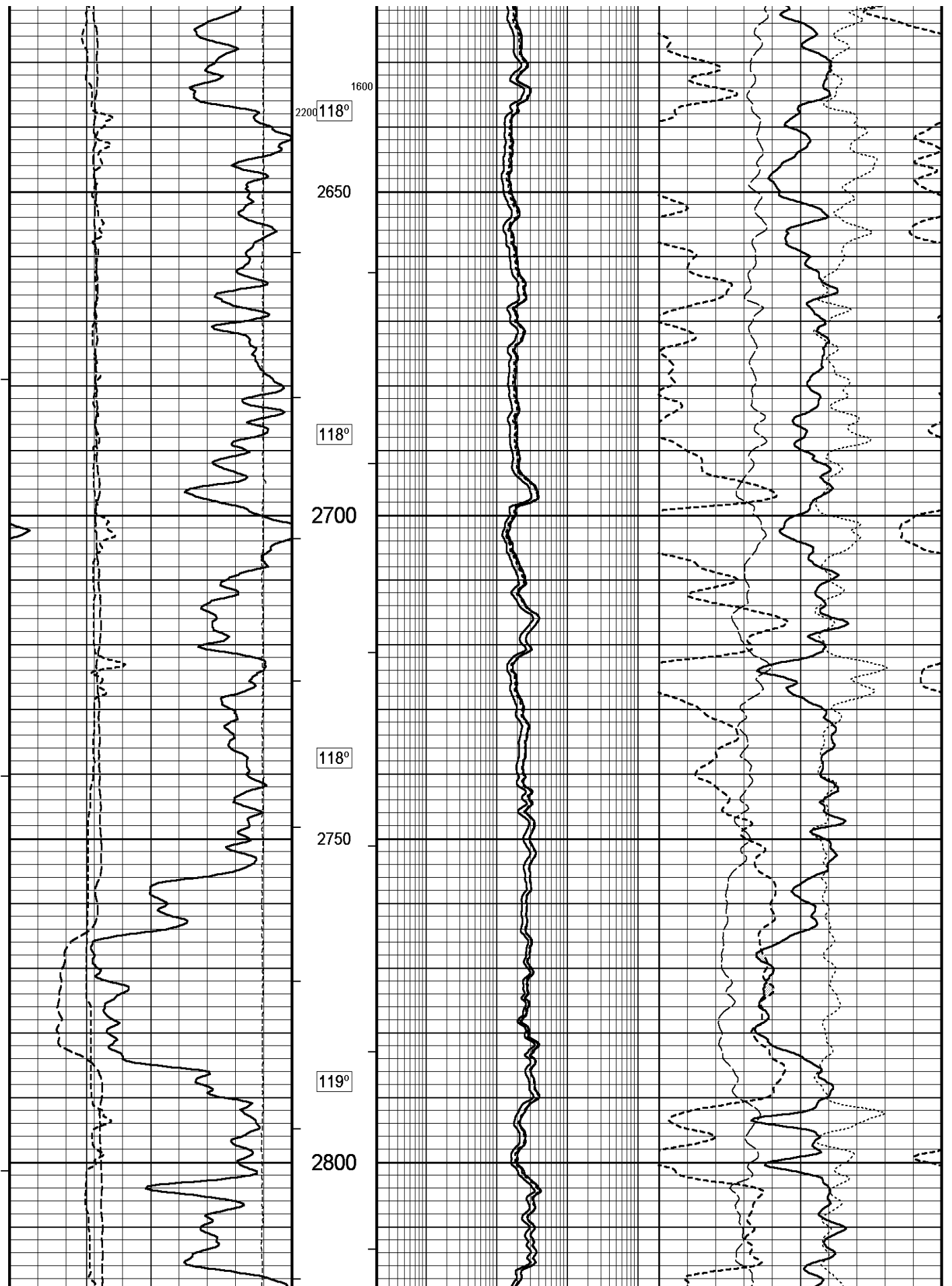
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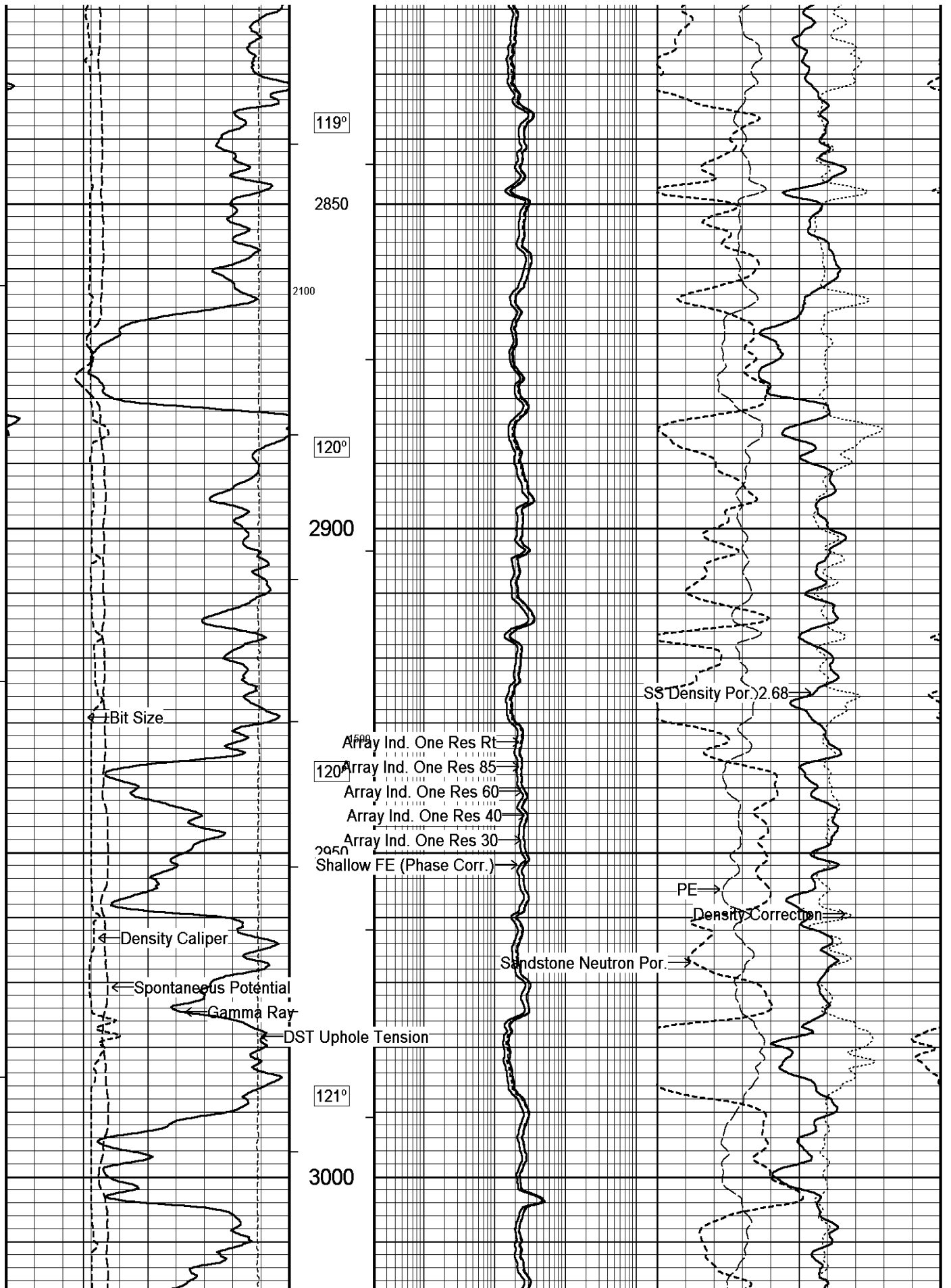
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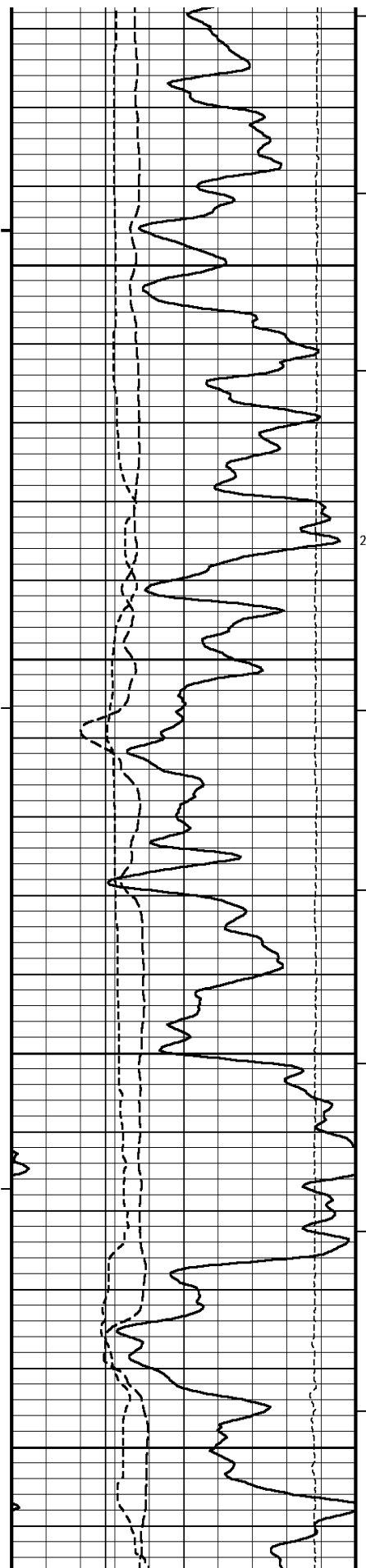
2400











122°

3050

2000

122°

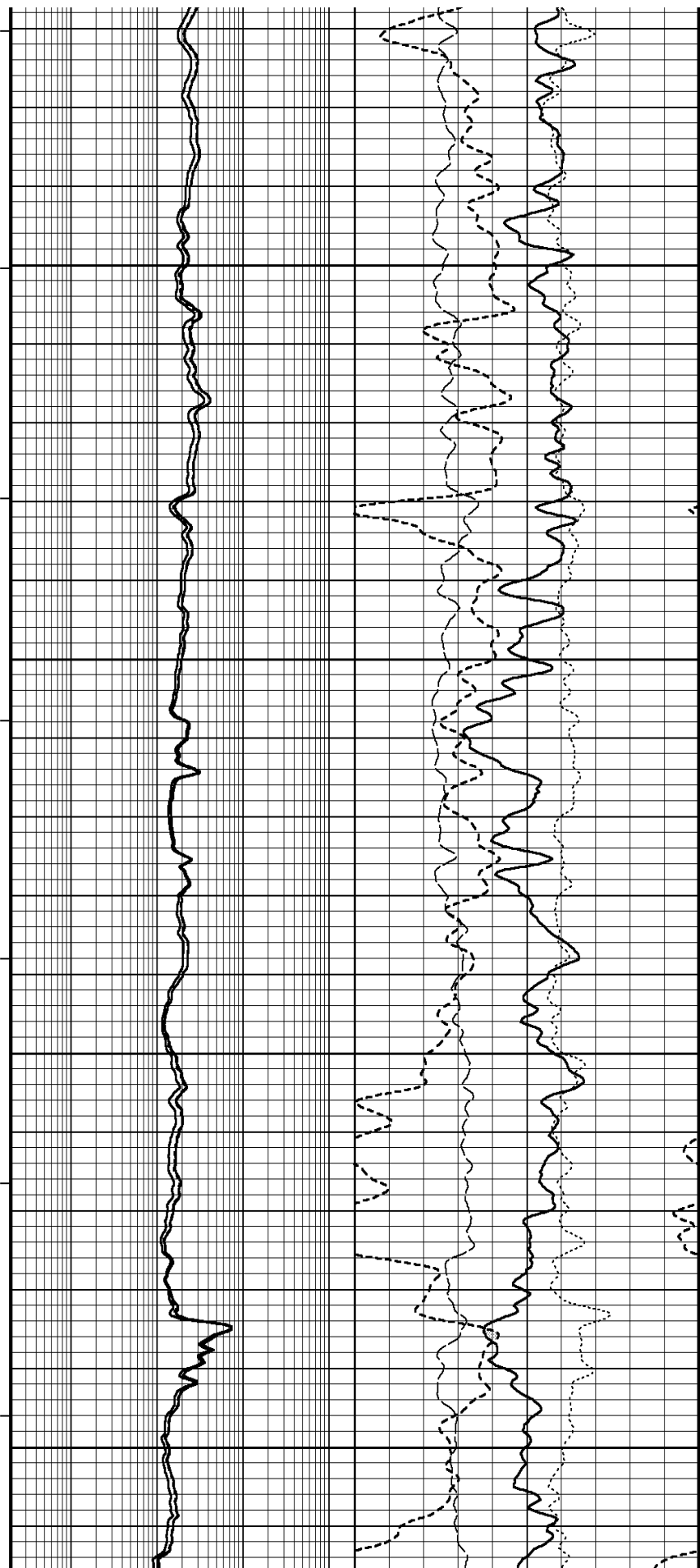
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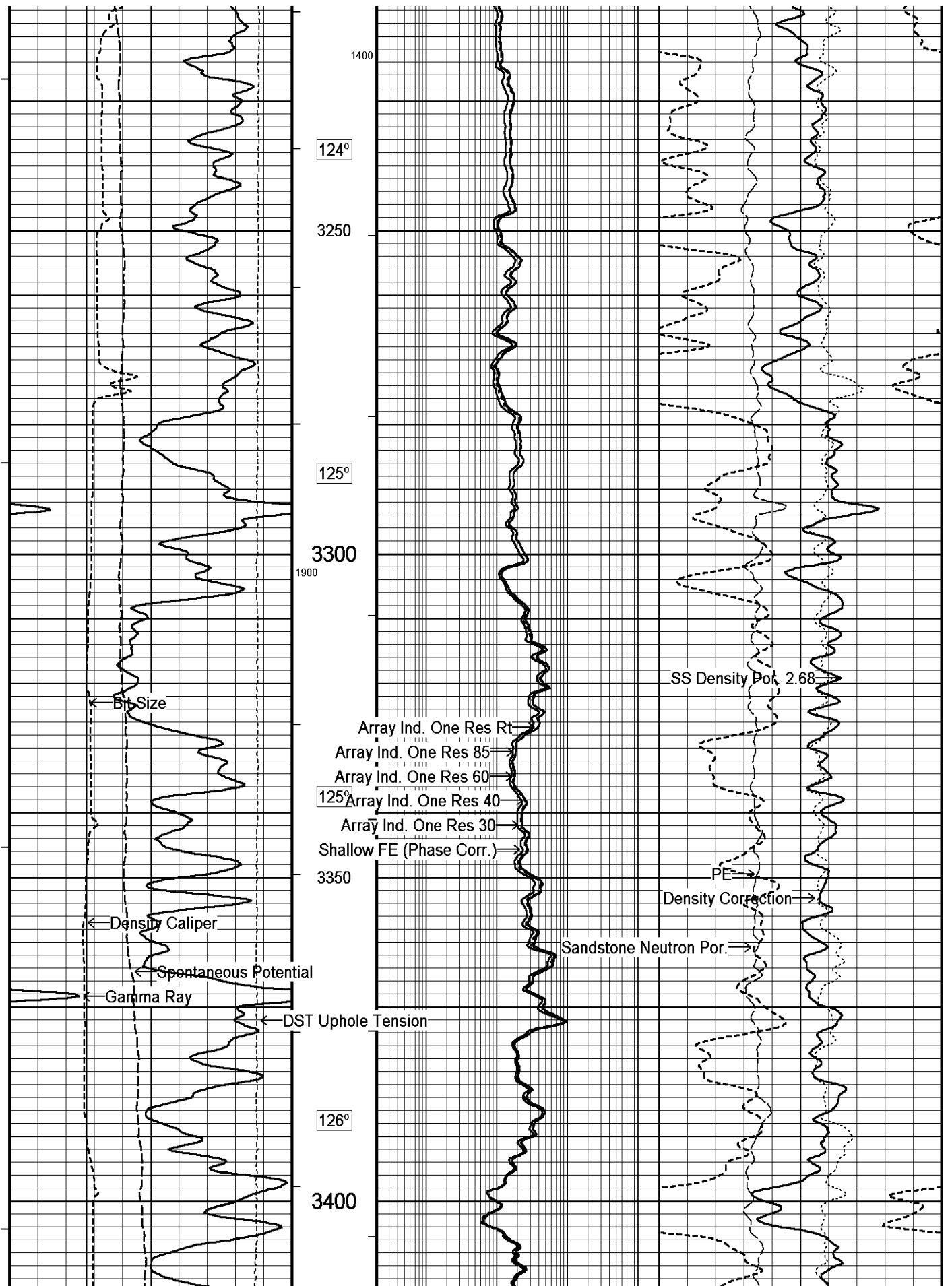
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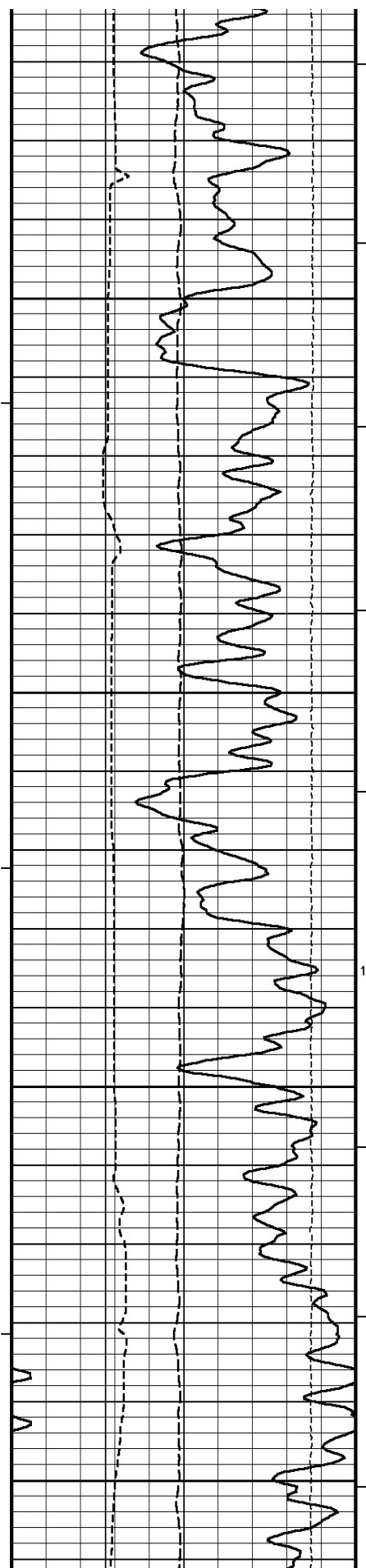
3150

124°

3200







126°

3450

127°

3500

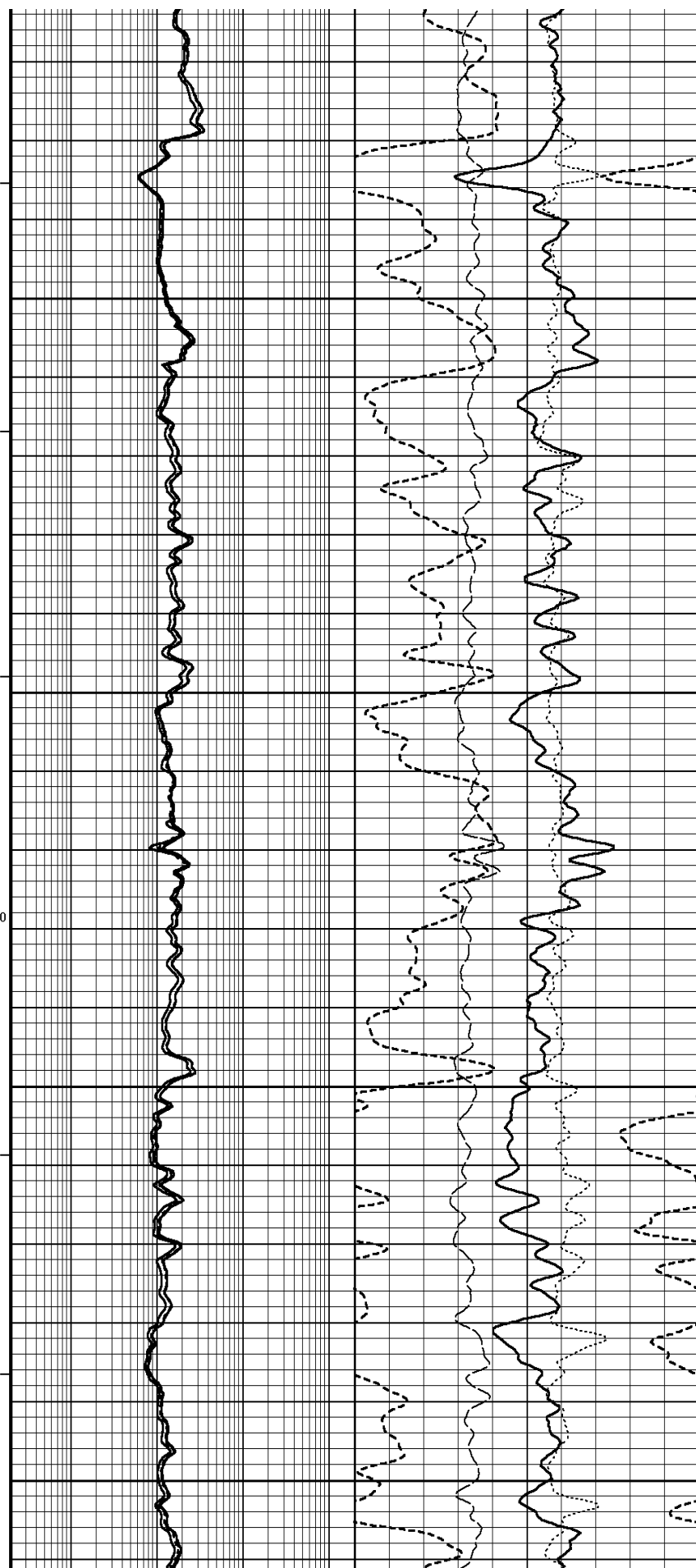
1800

127°

3550

128°

3600

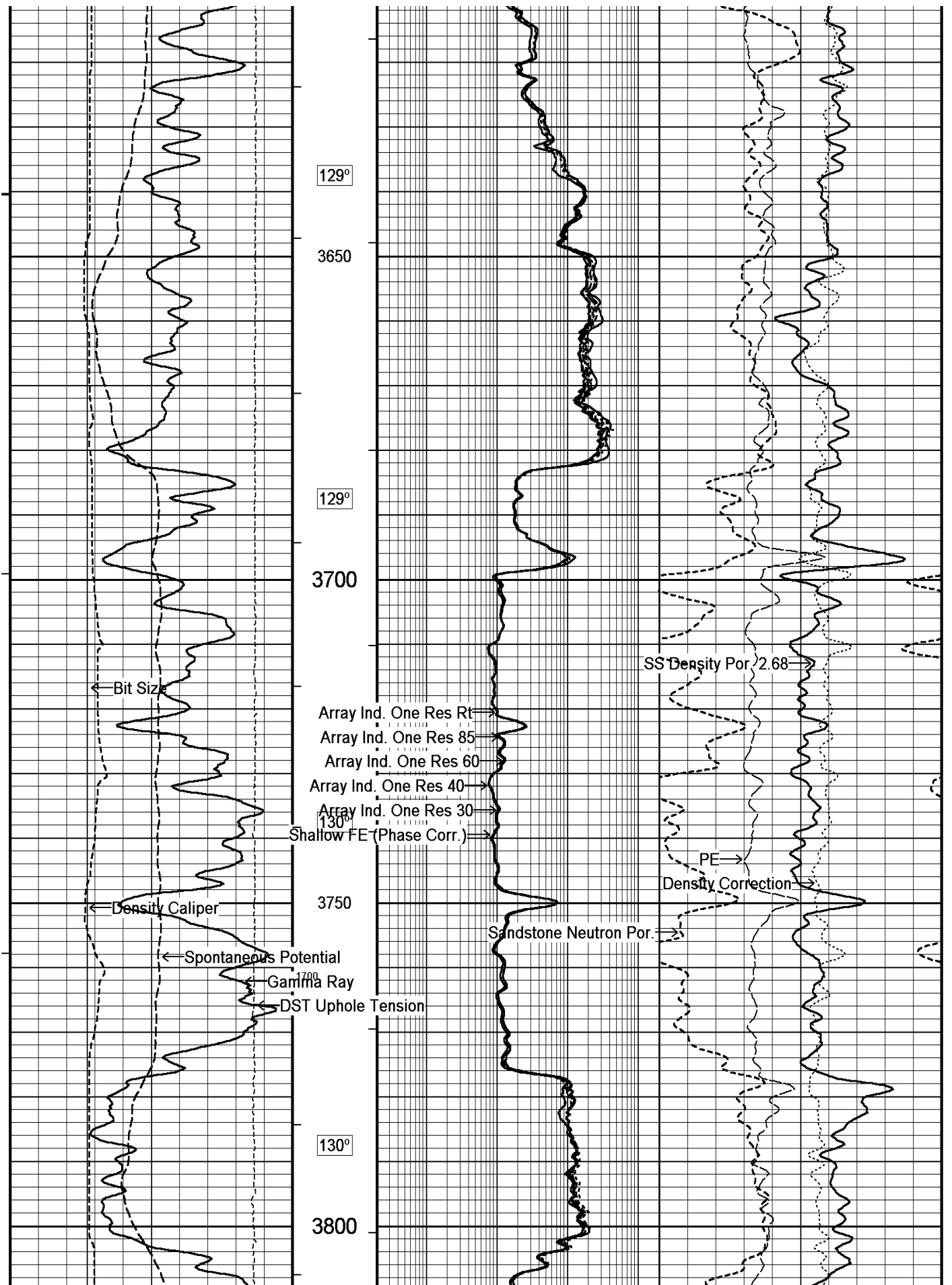


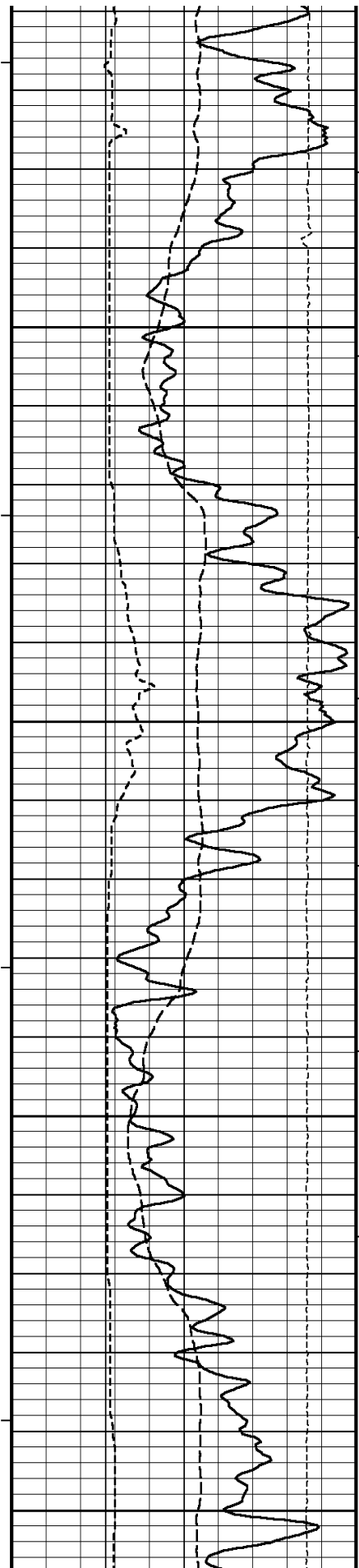
1300

1800

3550

3600





131°

3850

131°

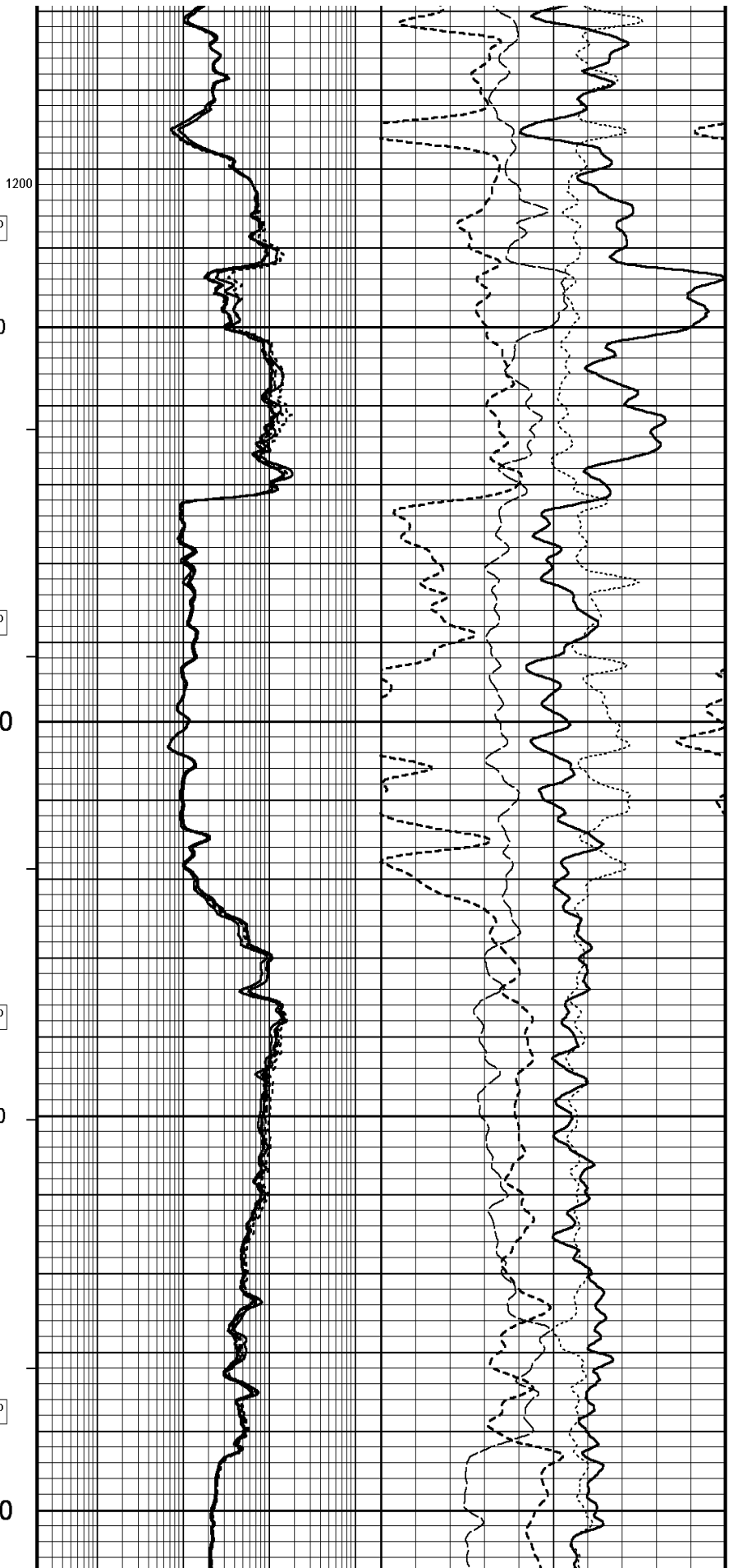
3900

131°

3950

1600 131°

4000



1200

131°

3850

131°

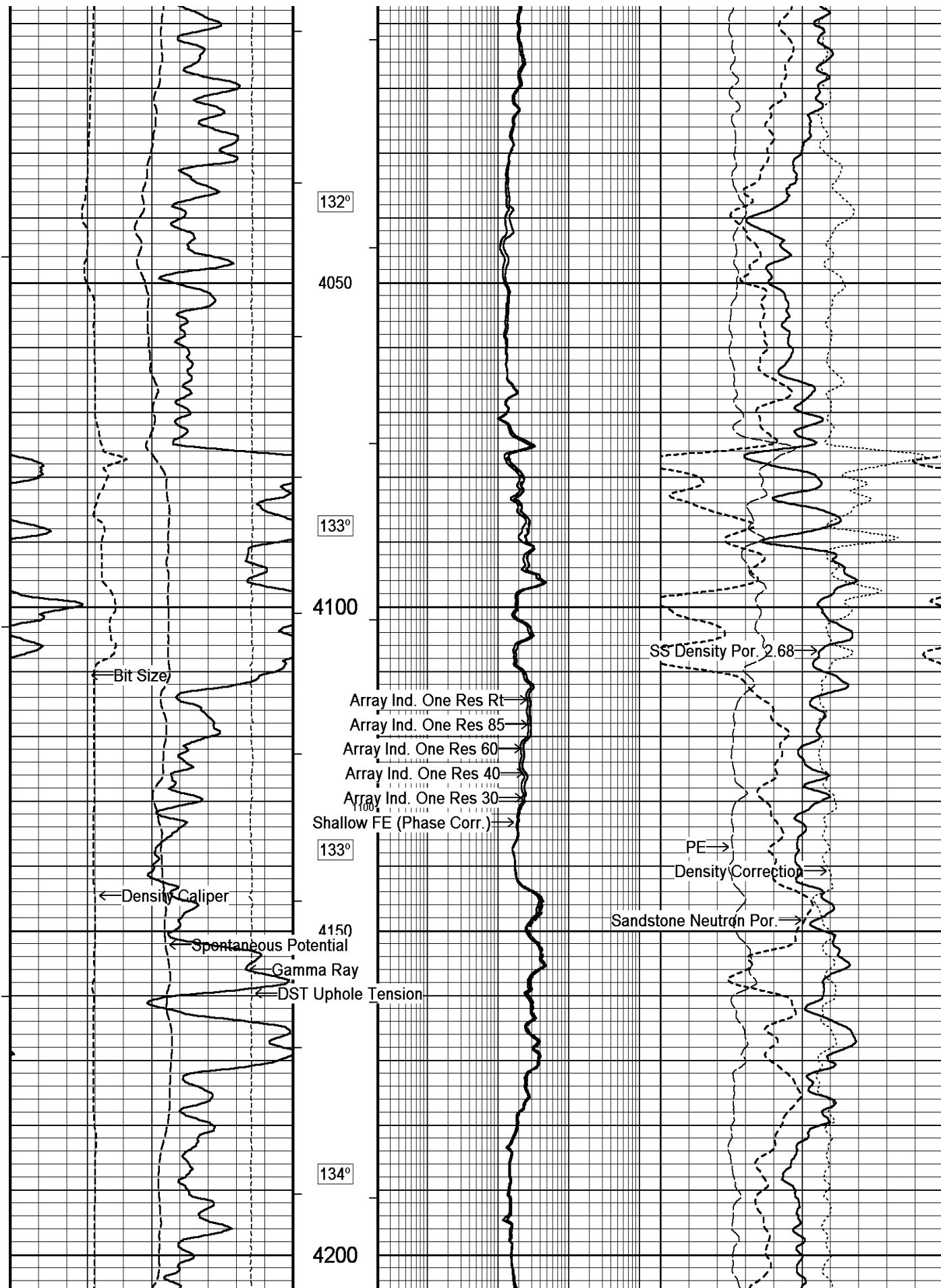
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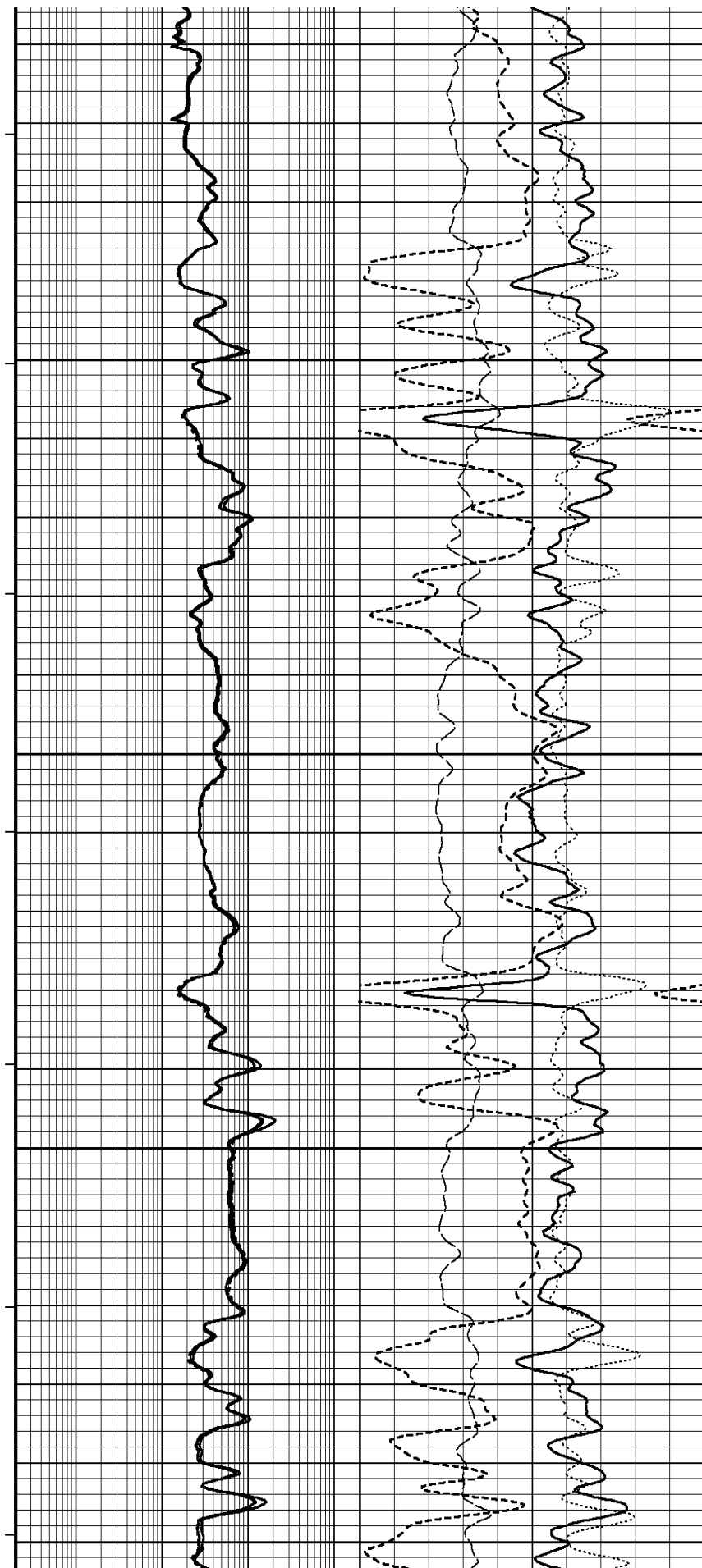
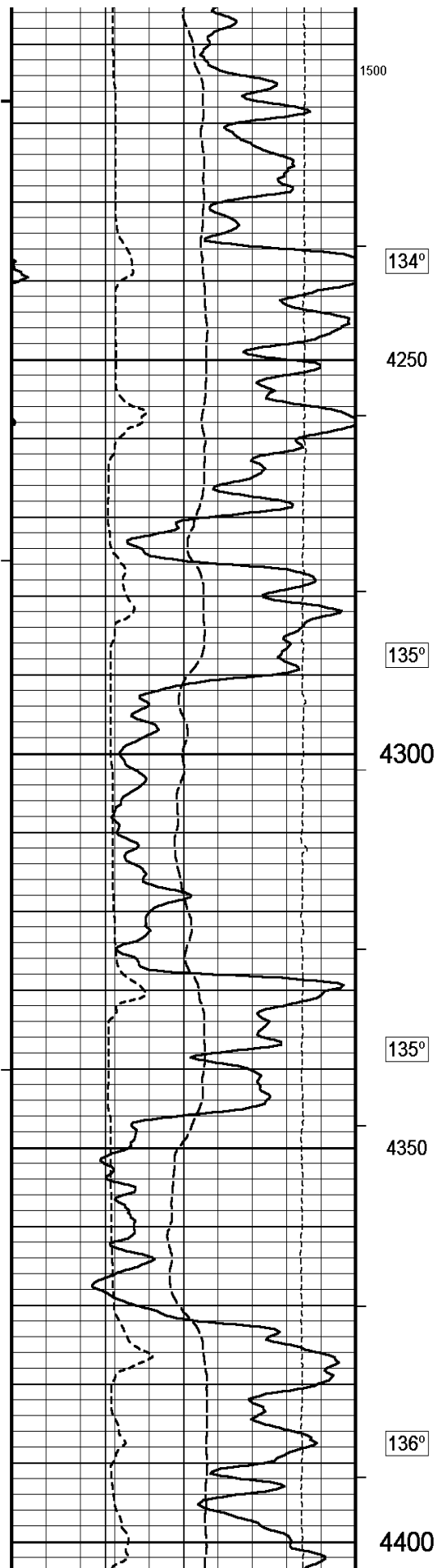
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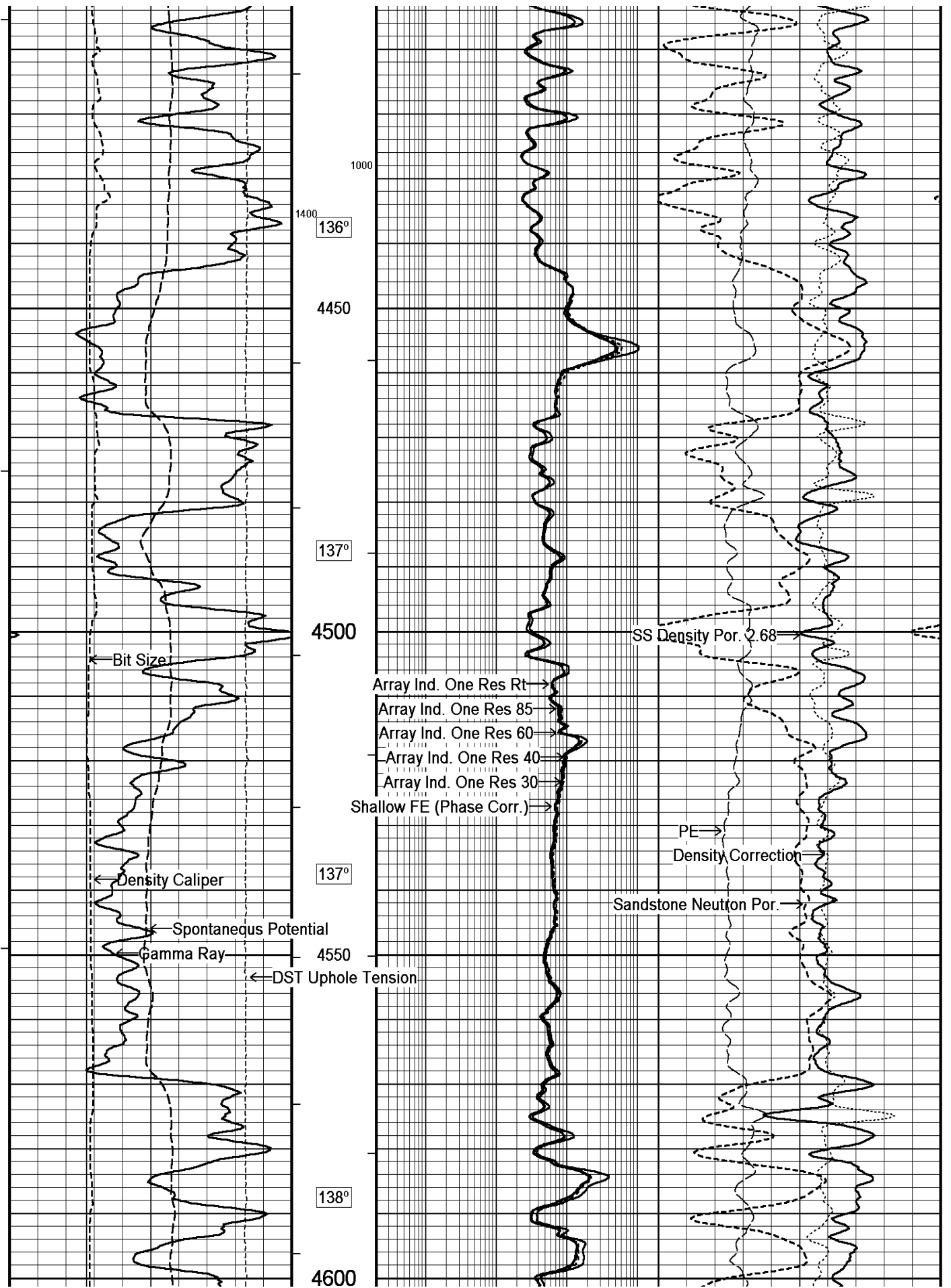
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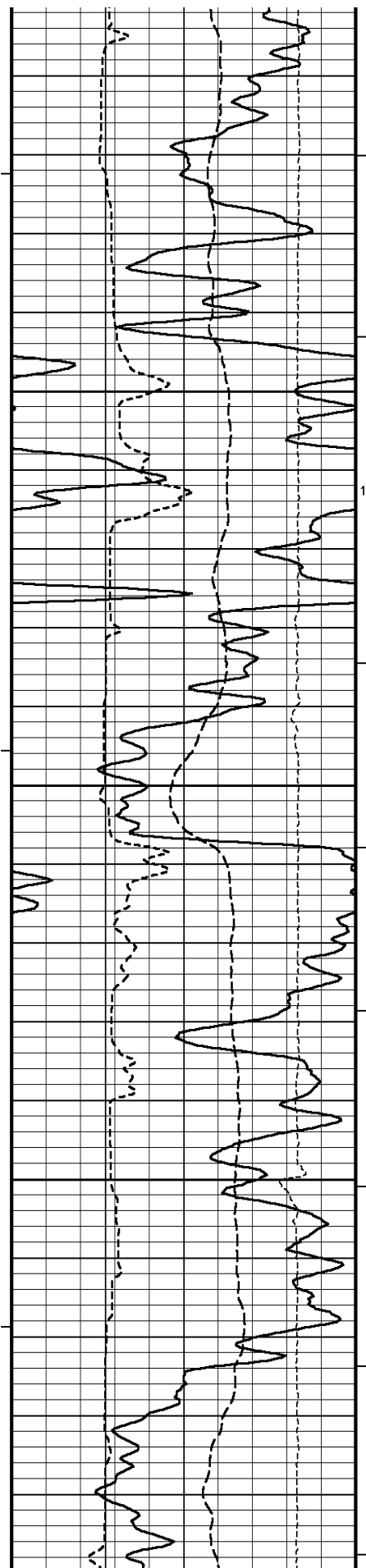
1600 131°

4000









138°

4650

1300

139°

4700

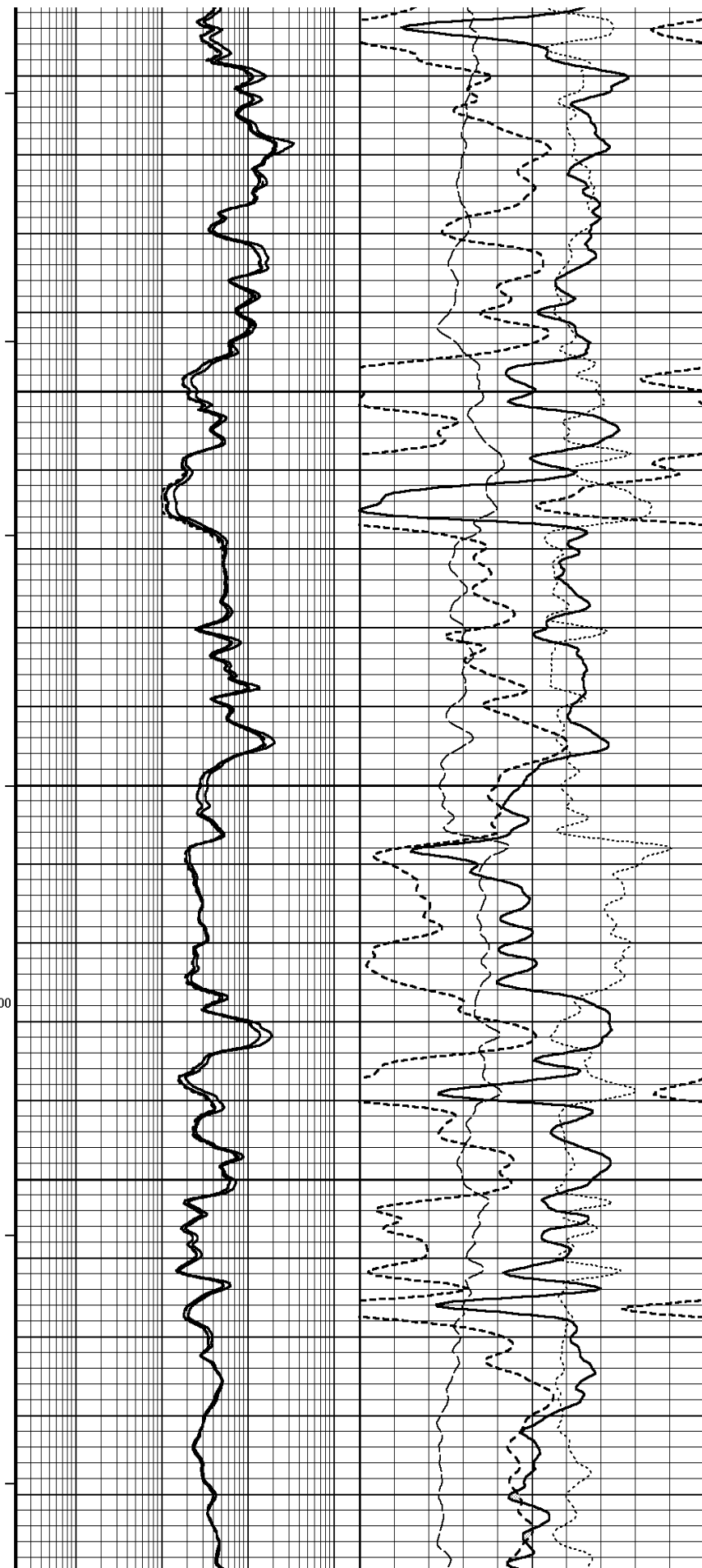
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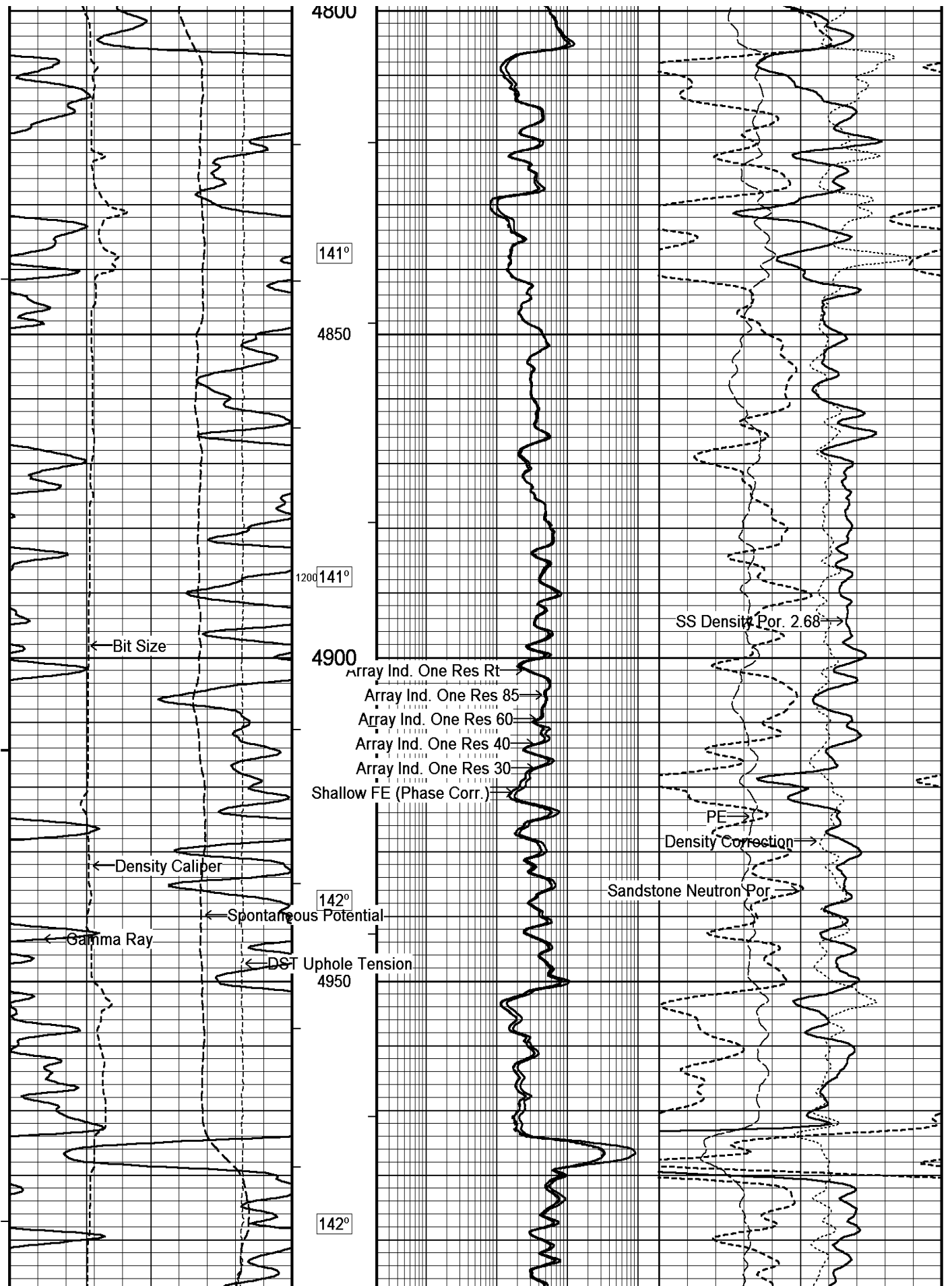
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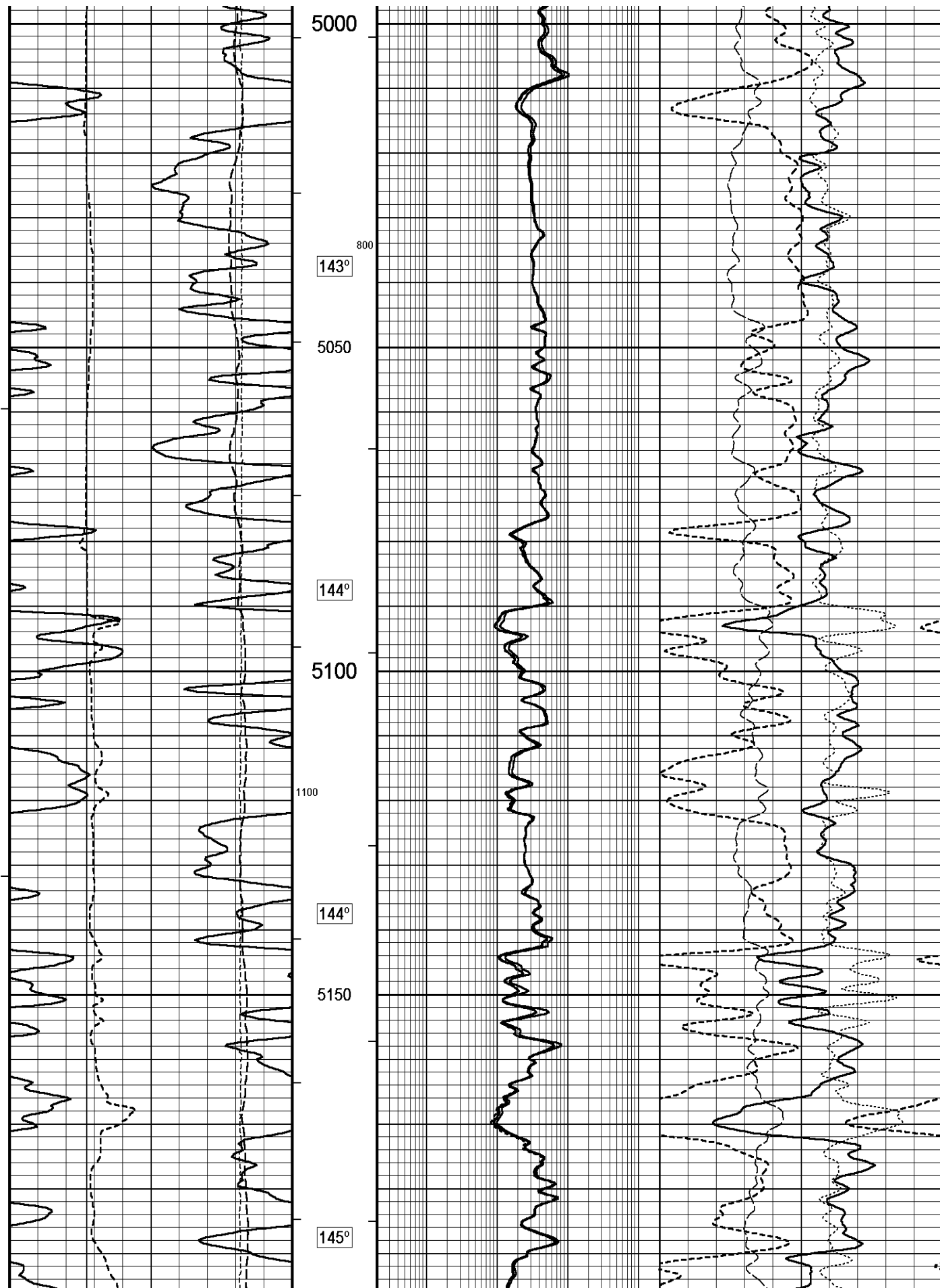
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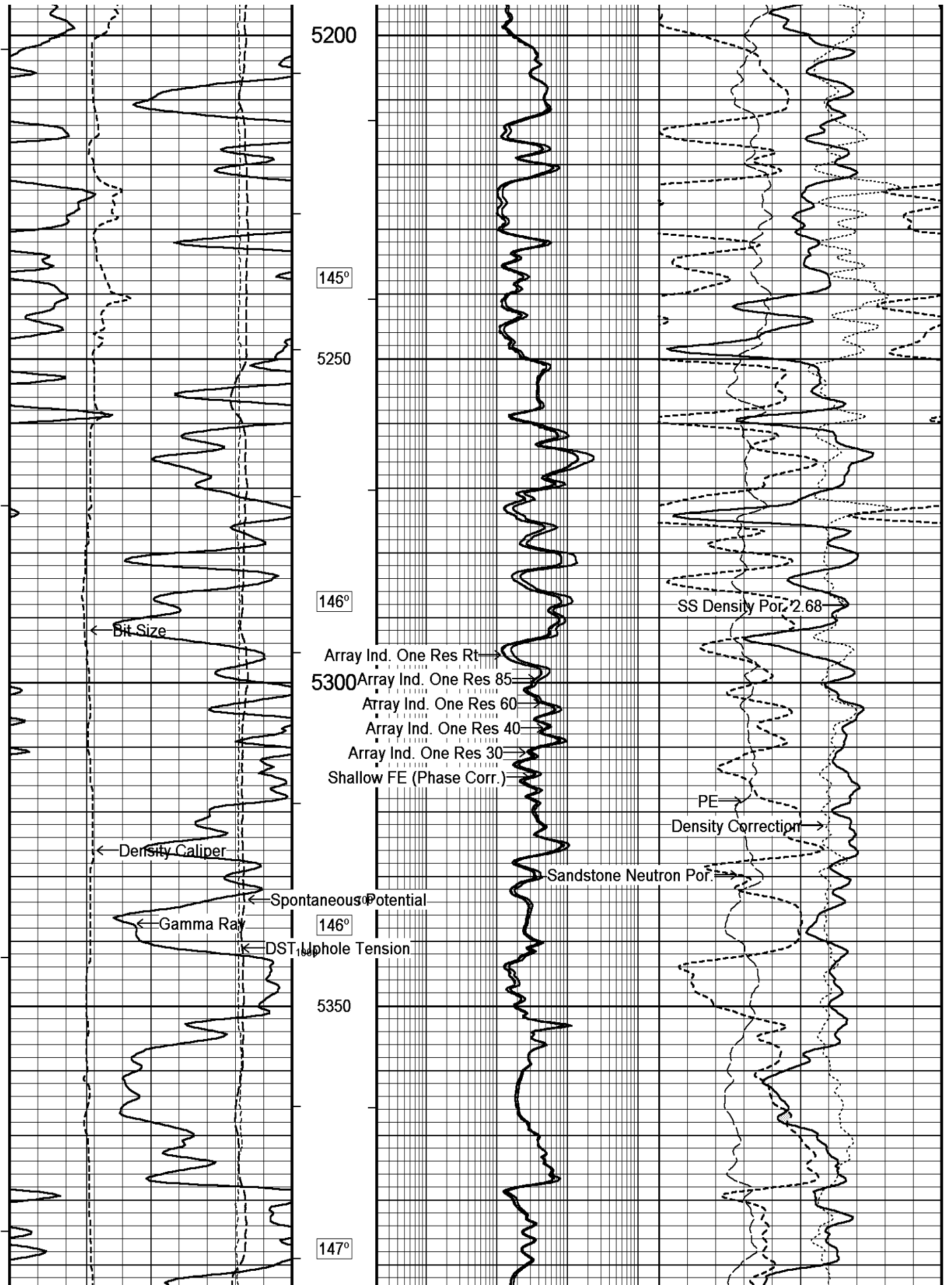
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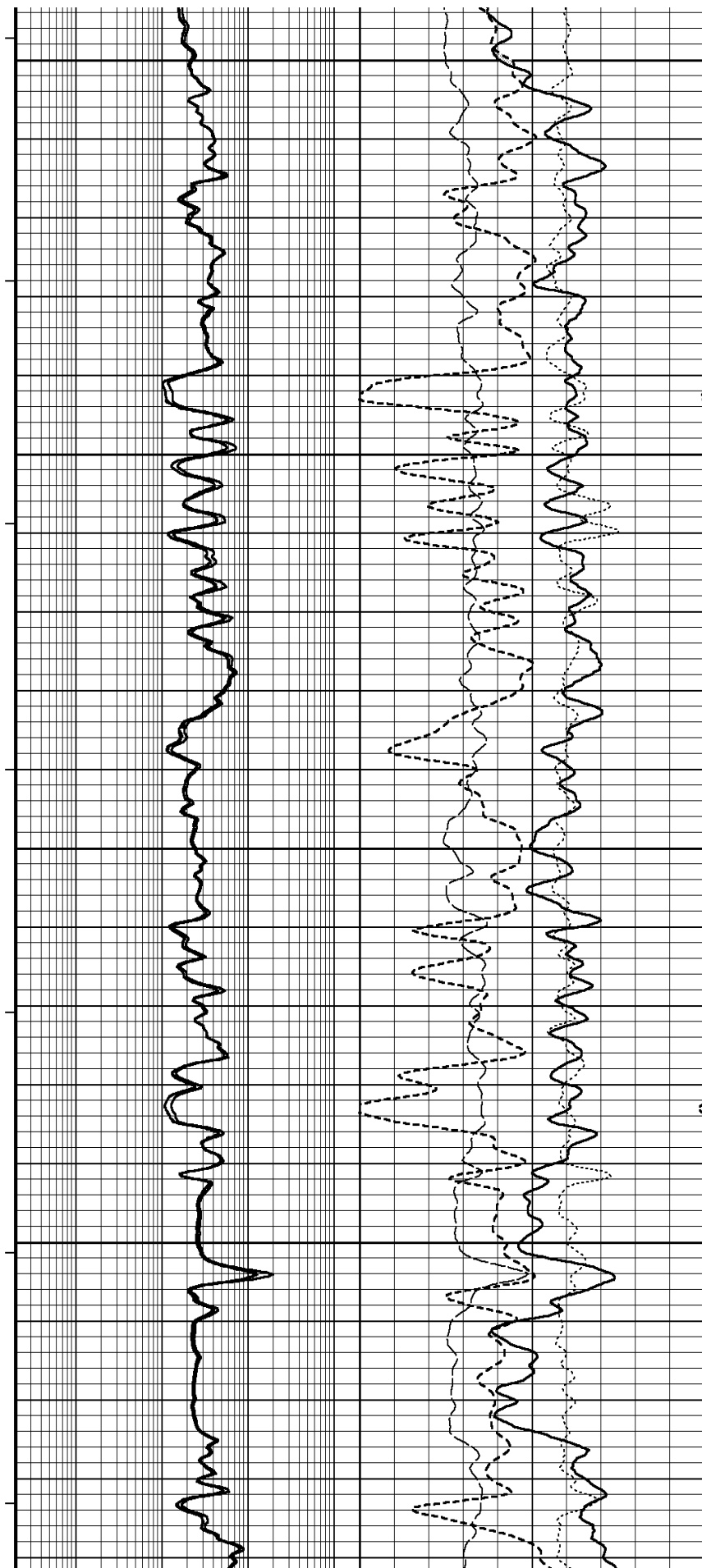
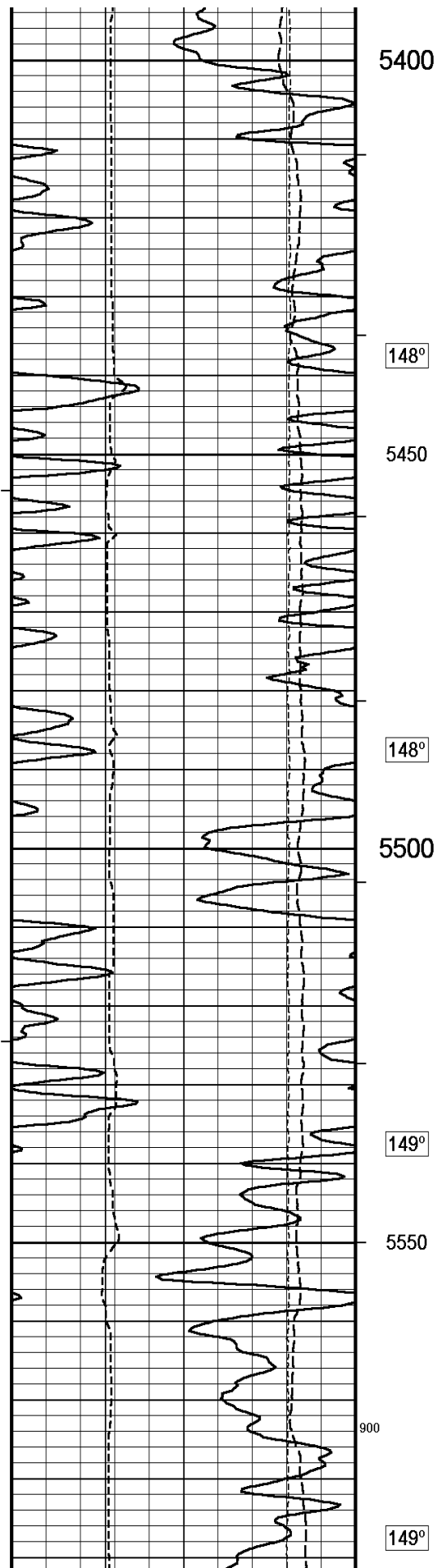
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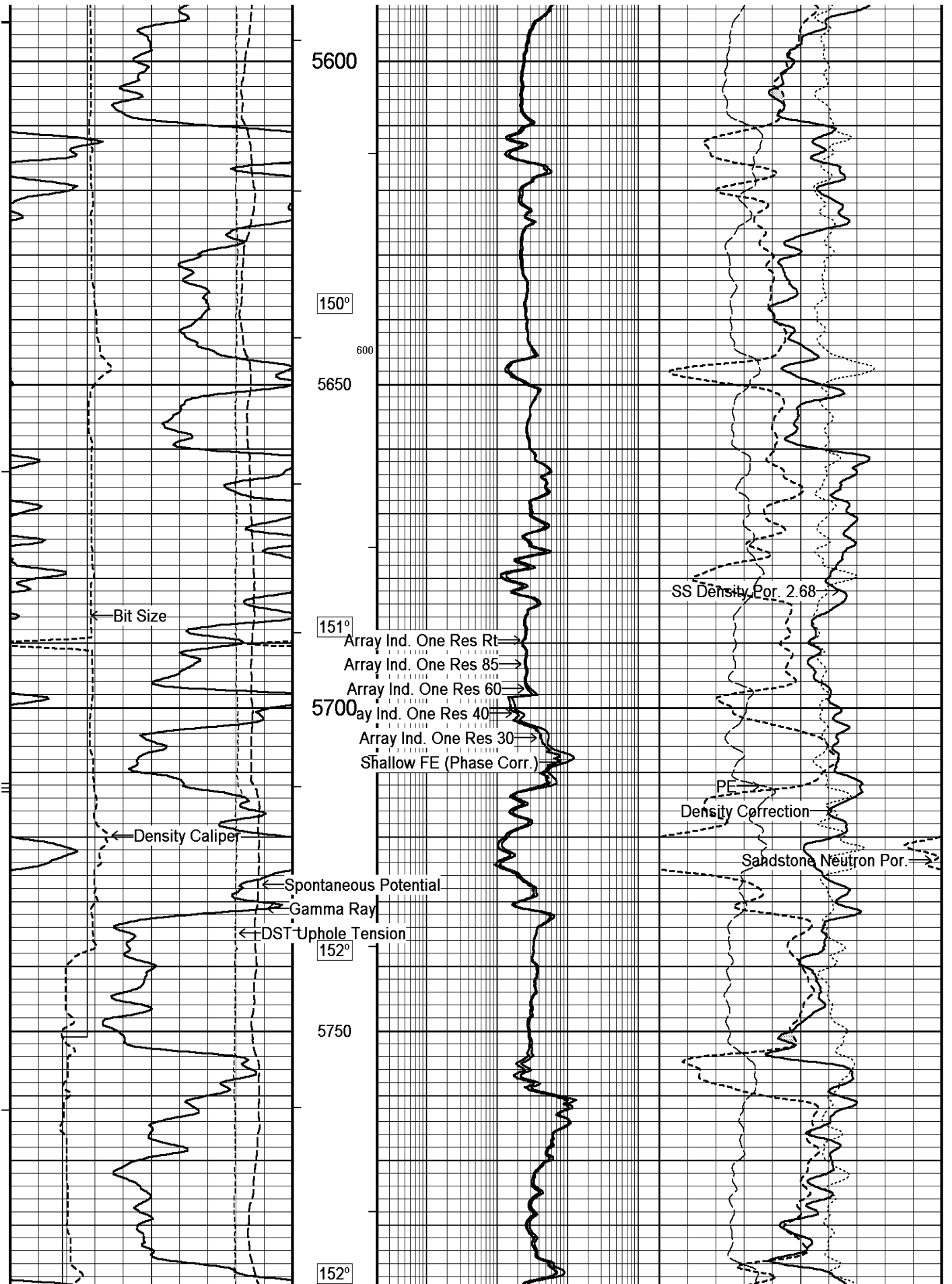


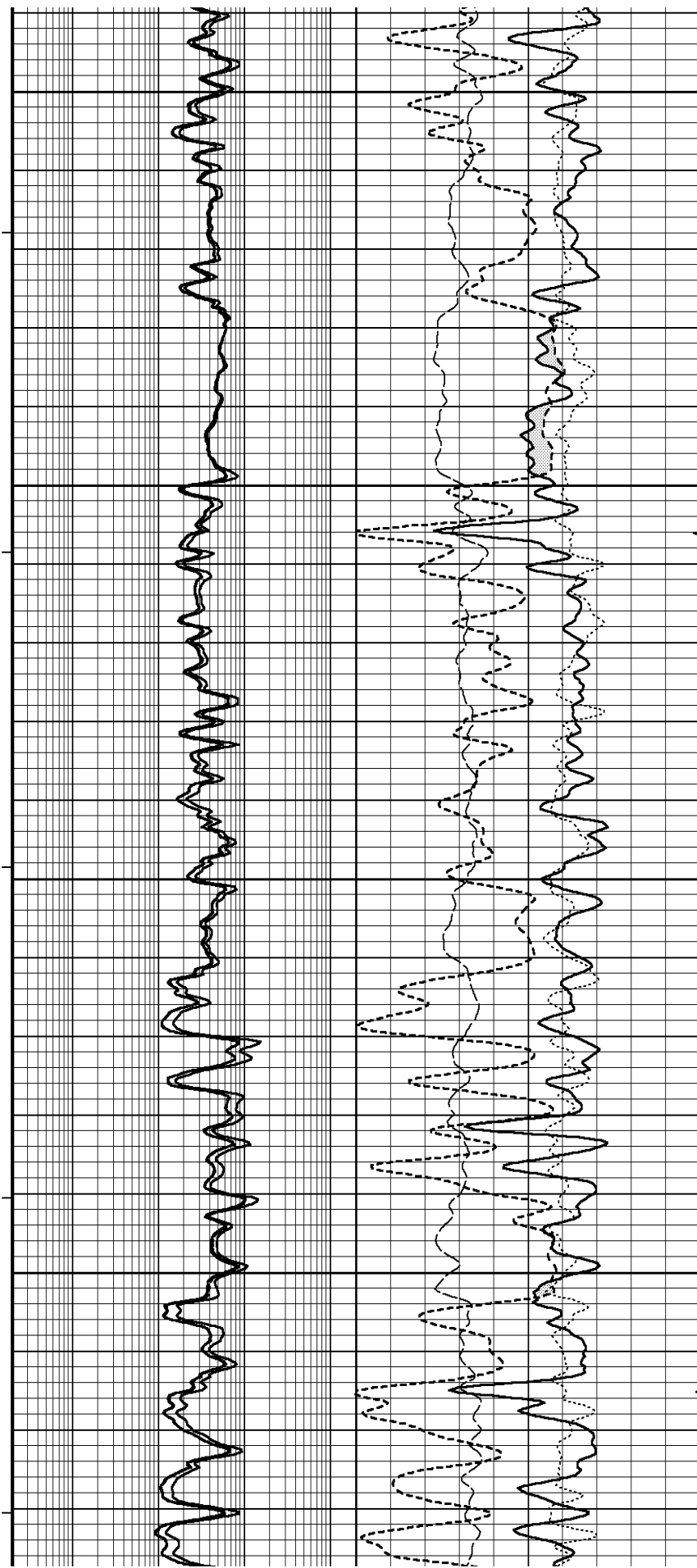
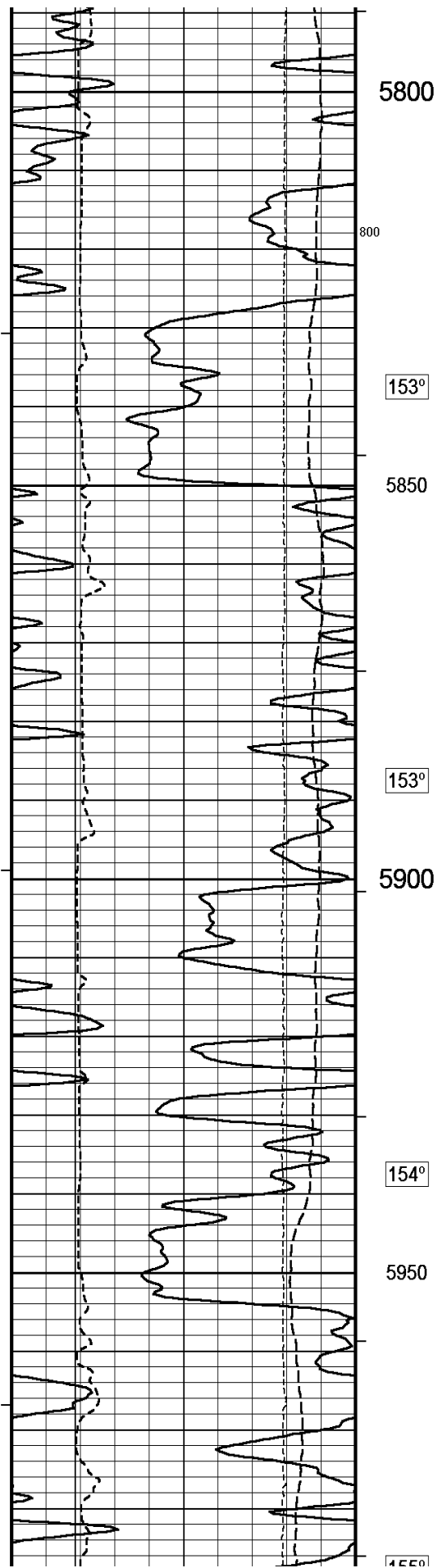


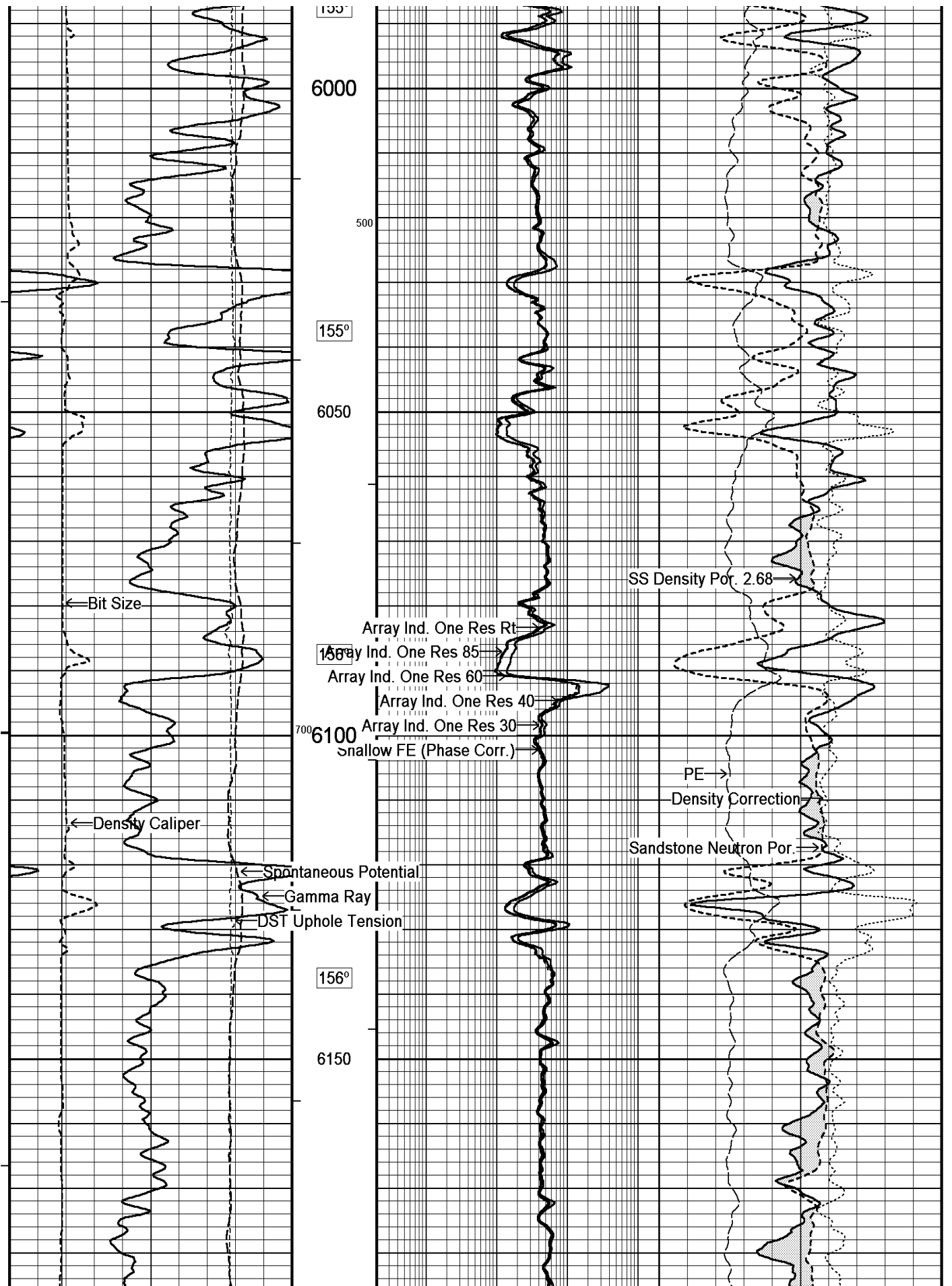


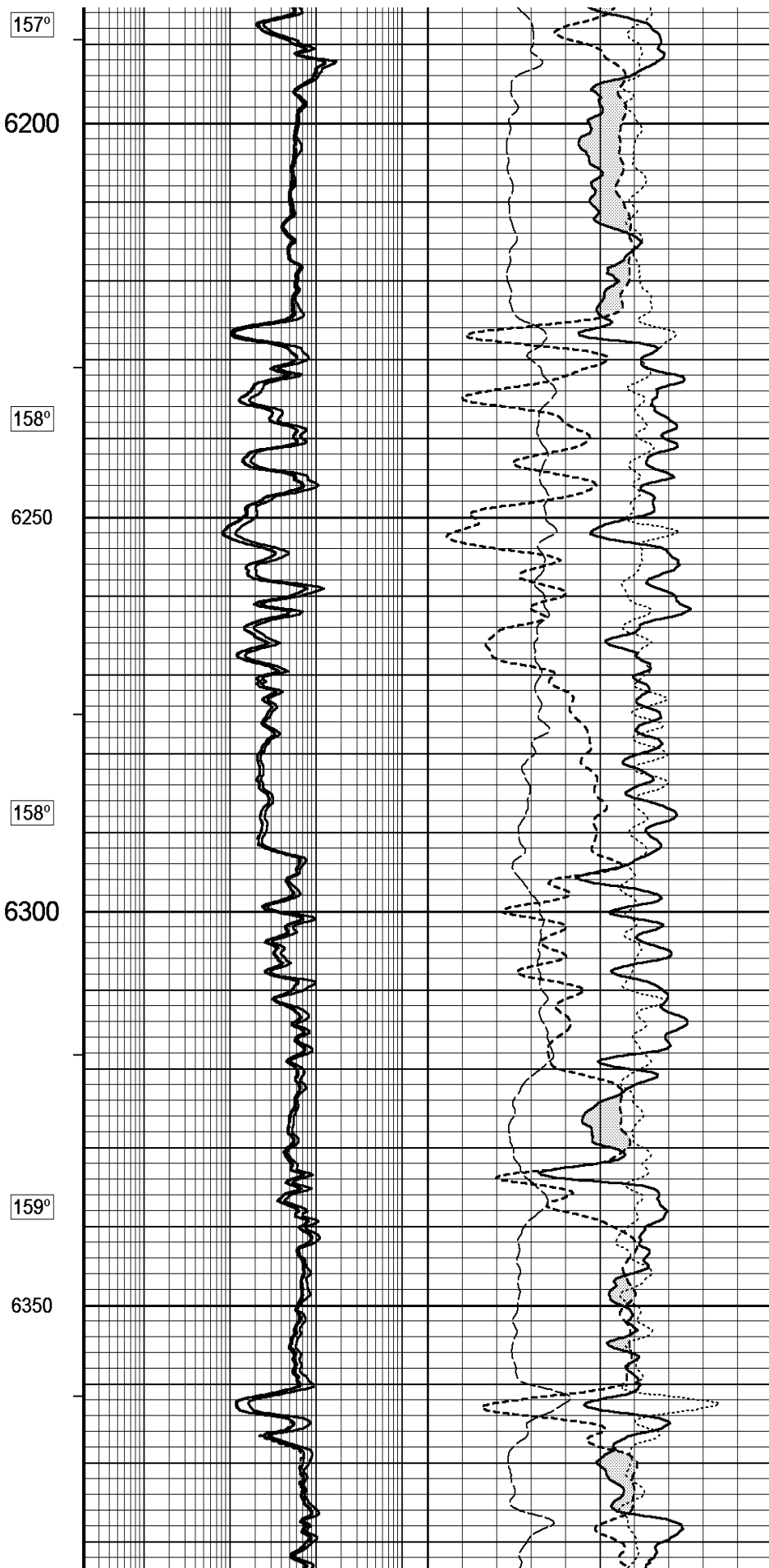
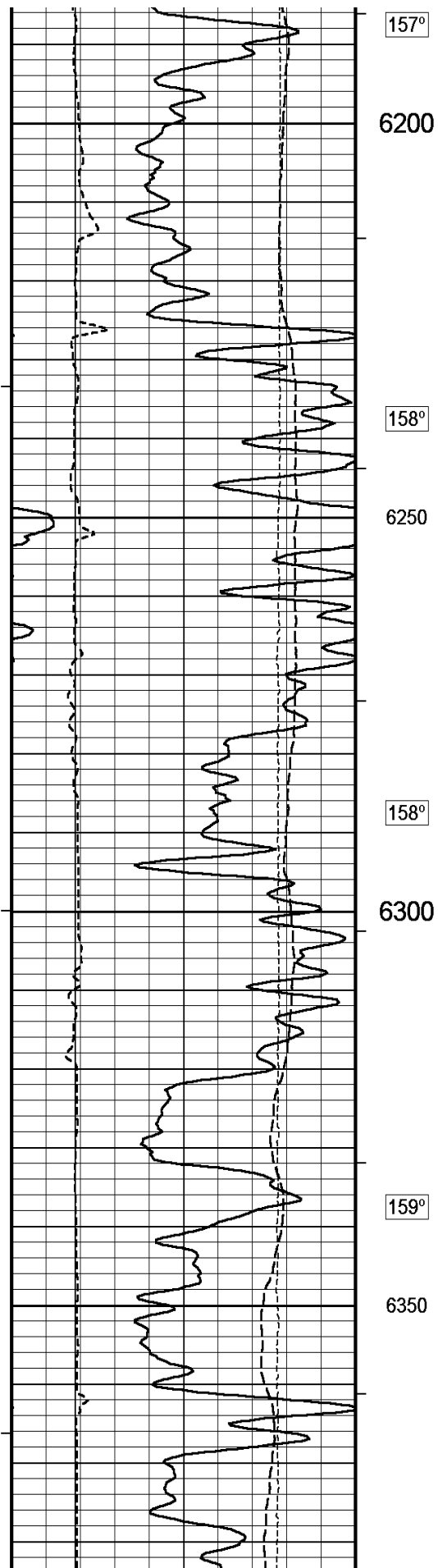


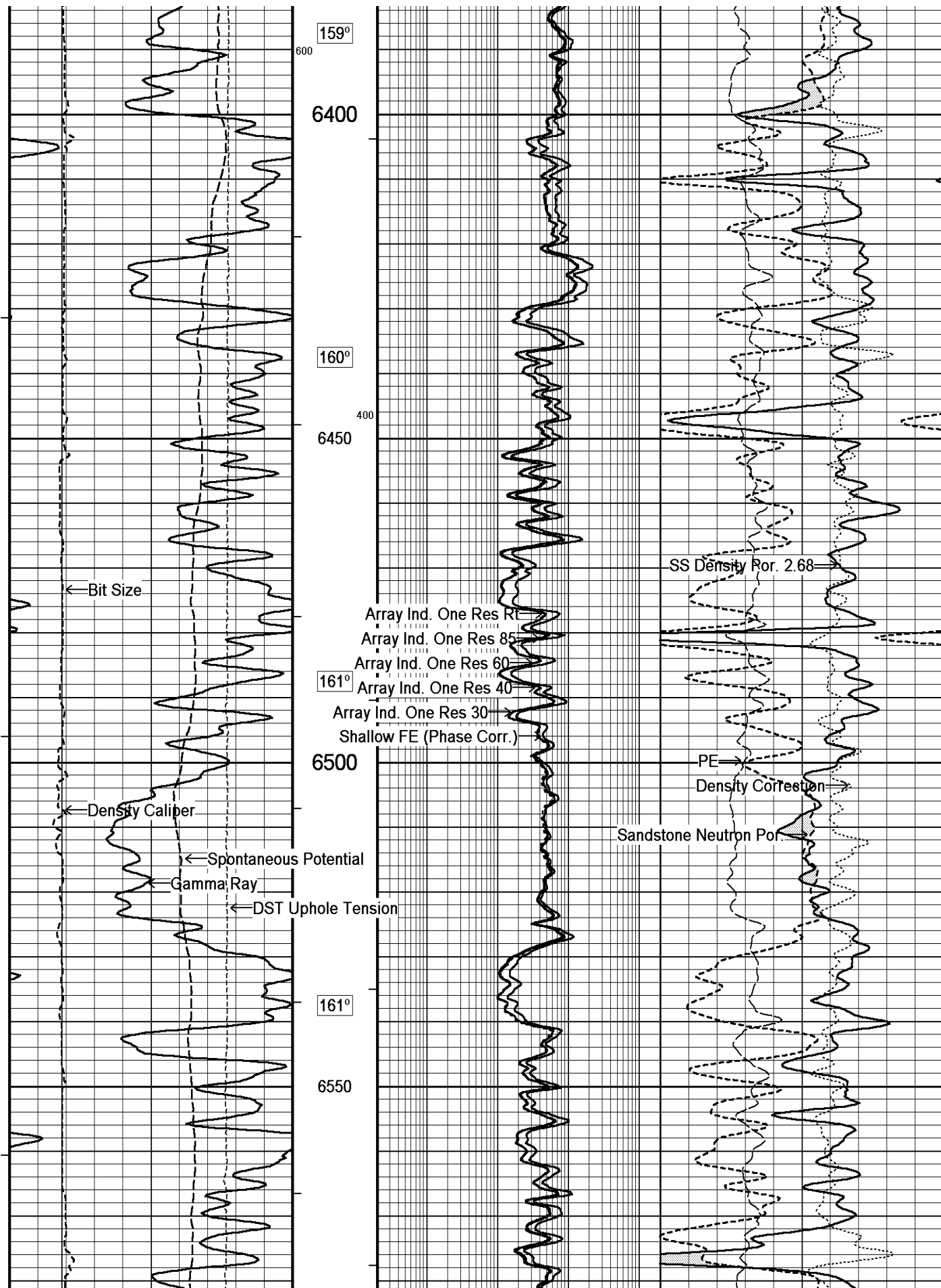


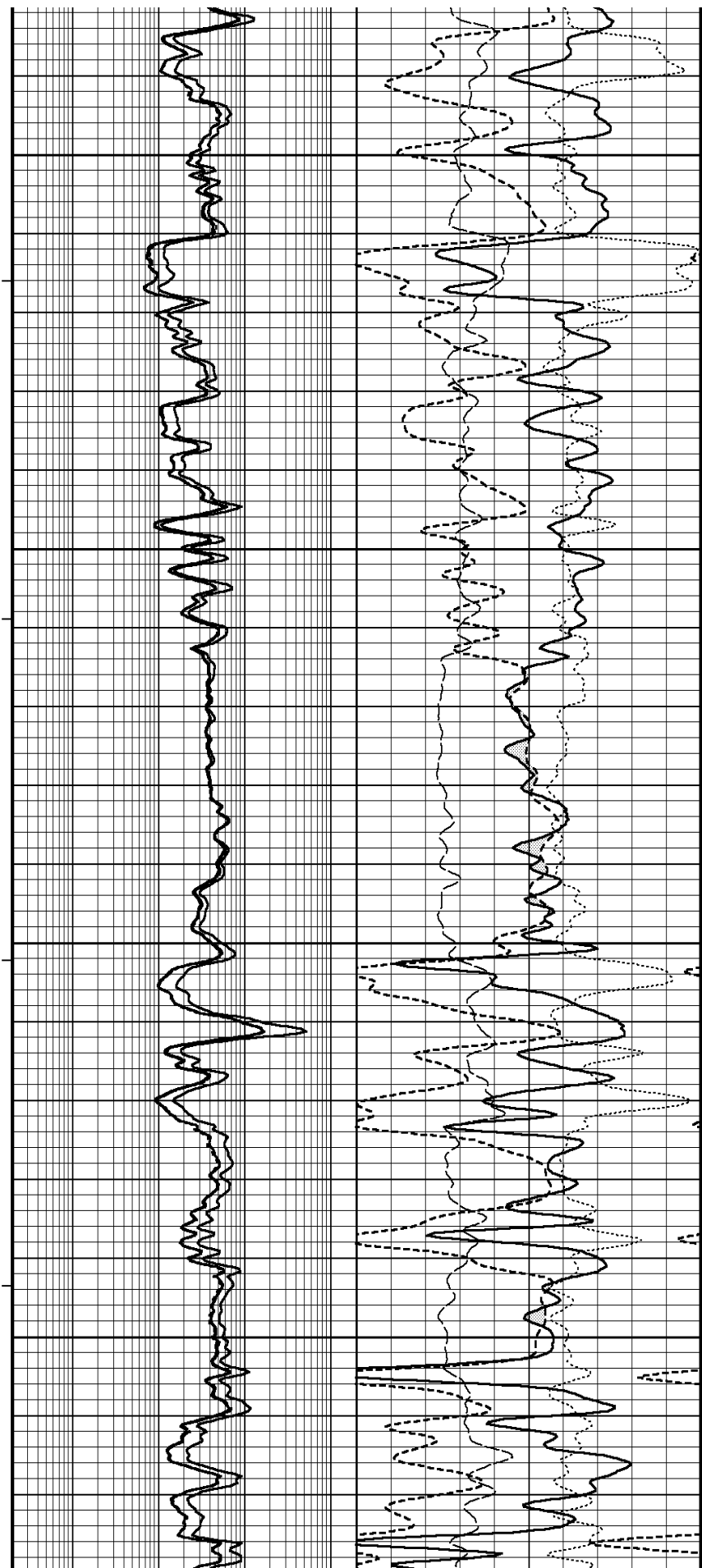
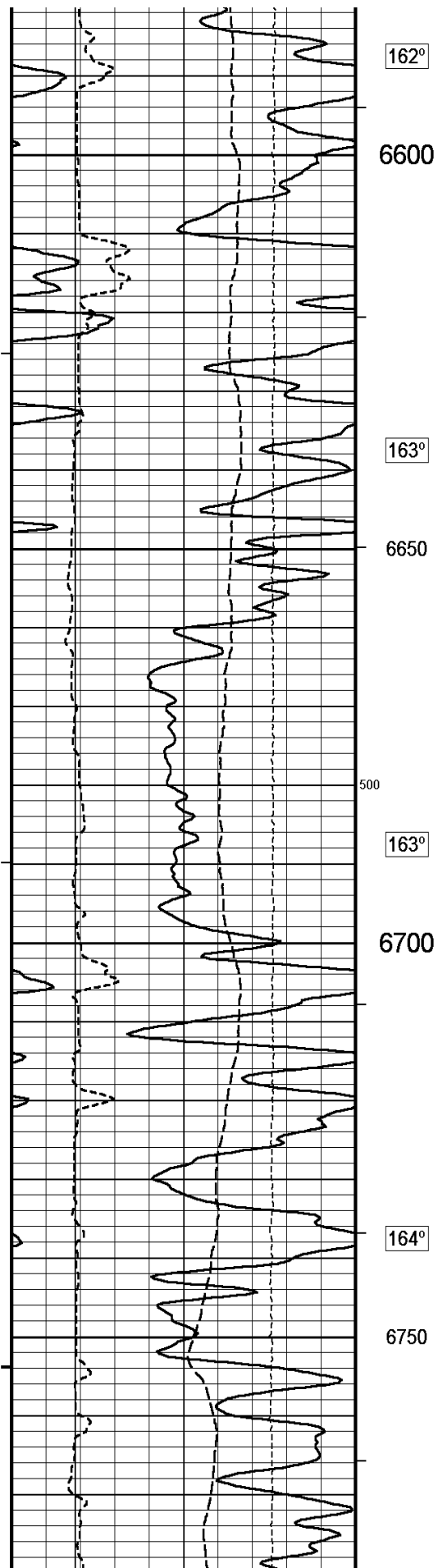


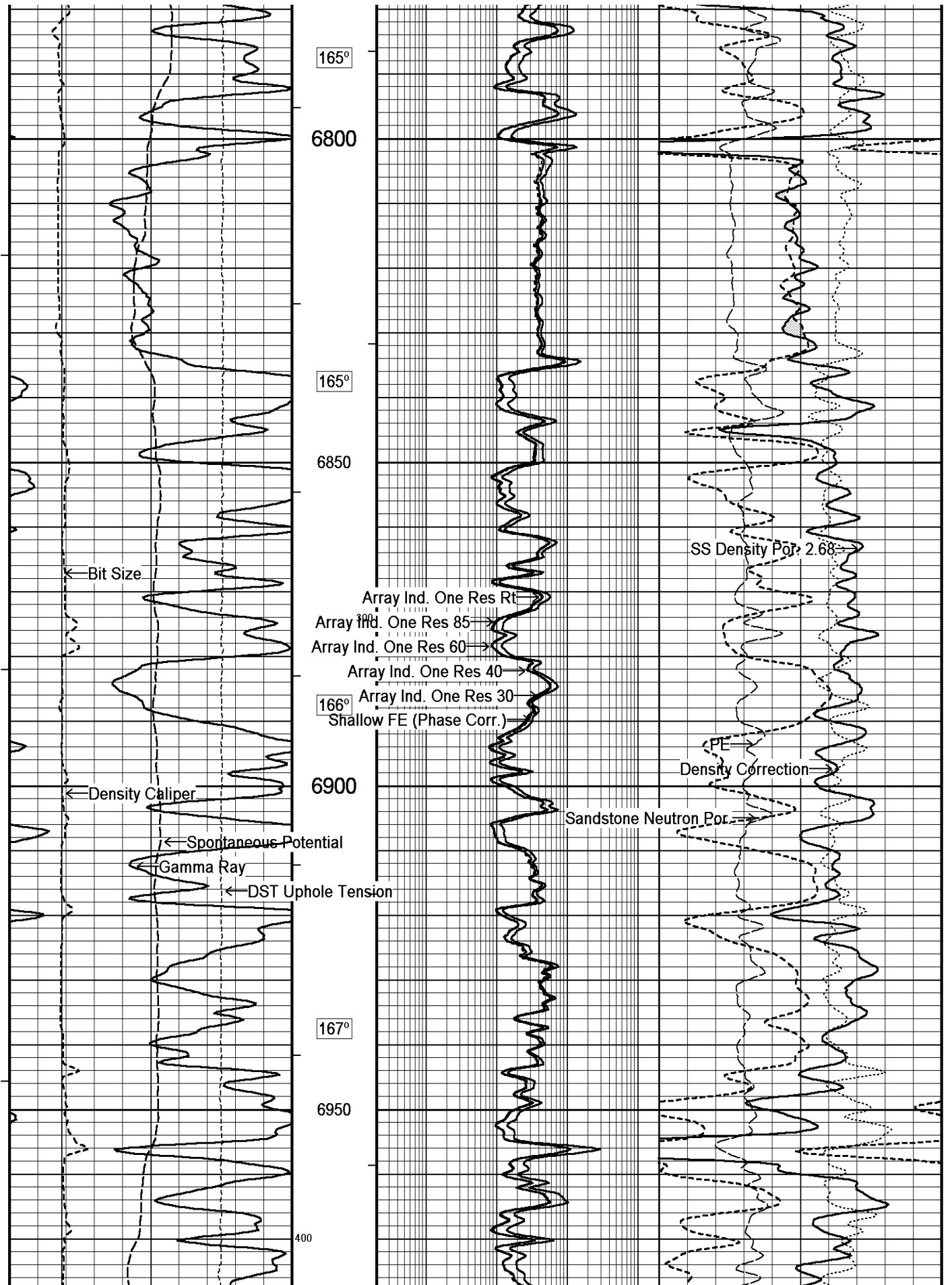


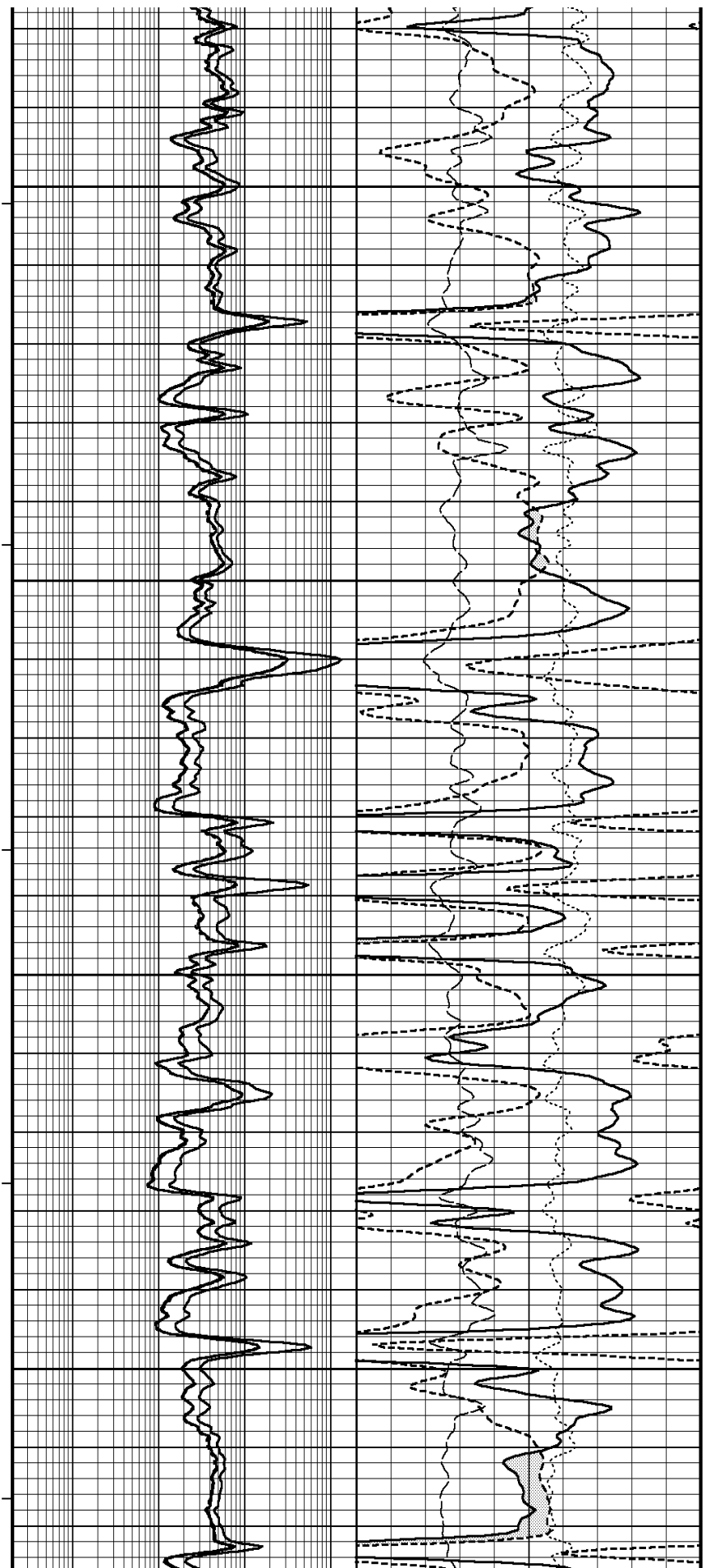
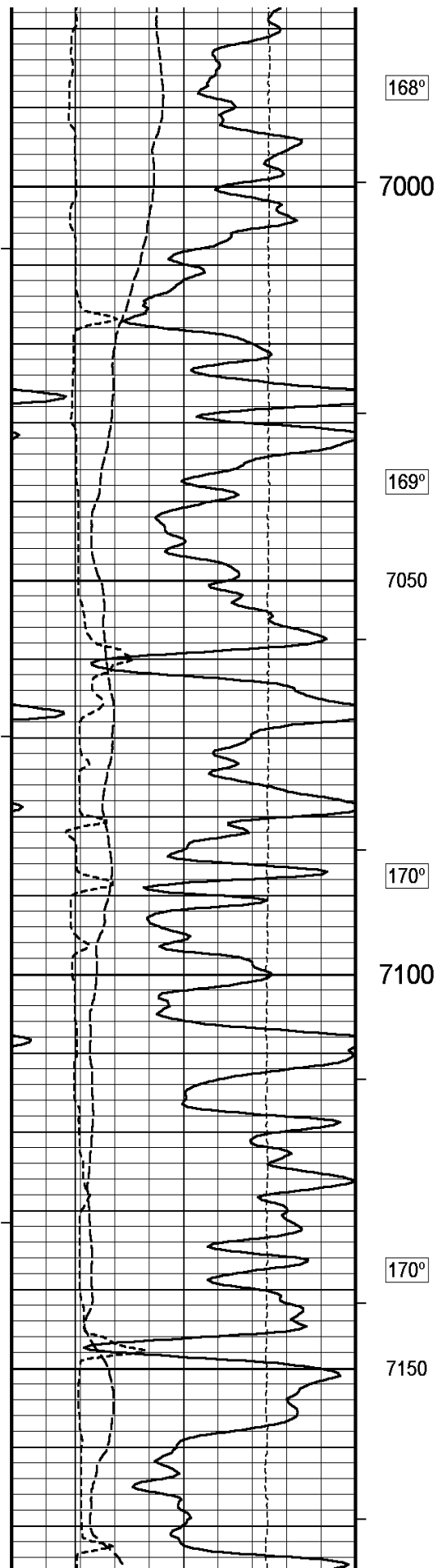


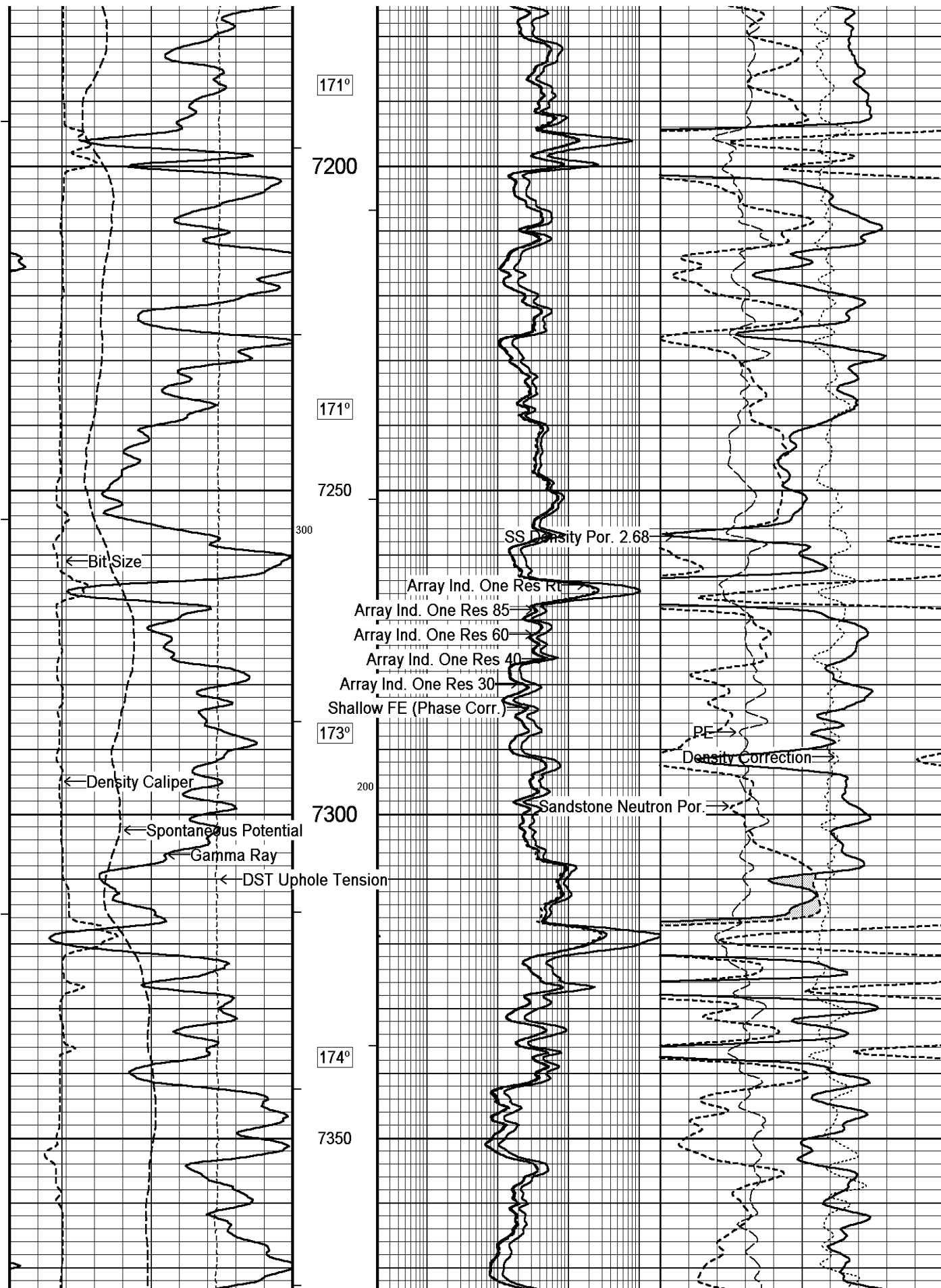


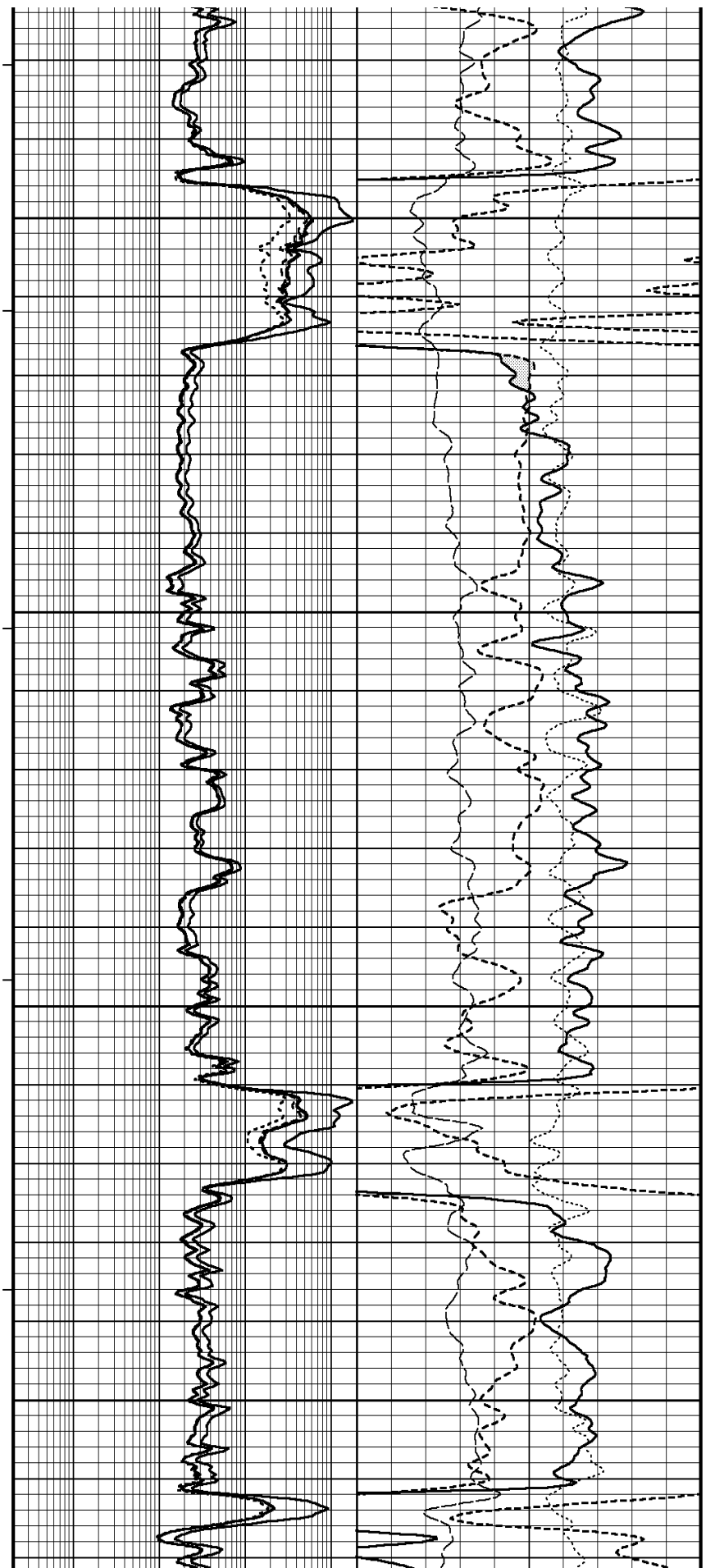
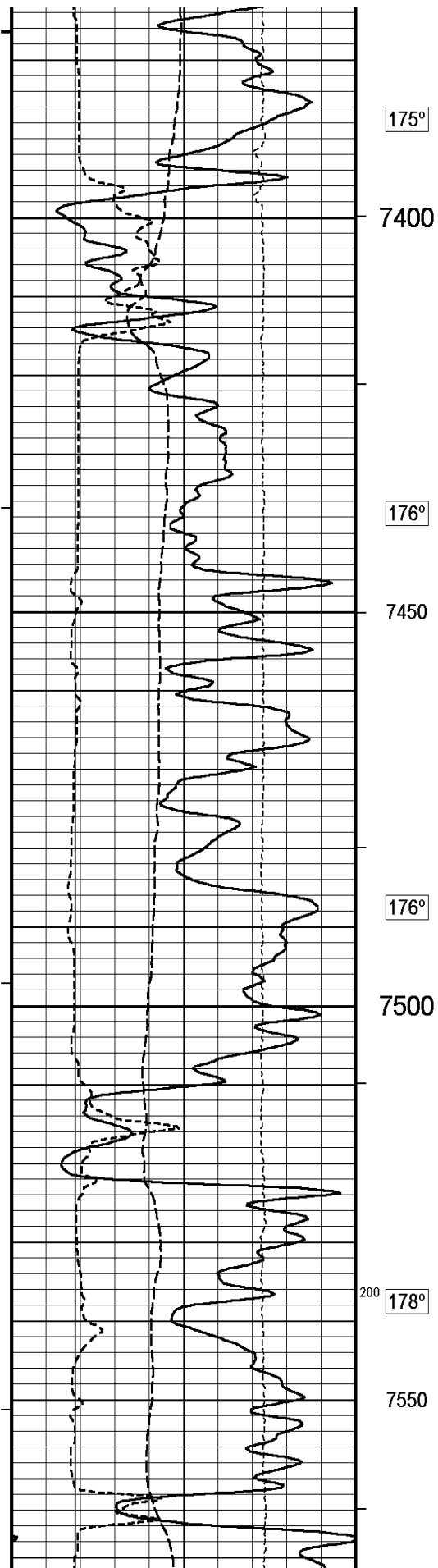


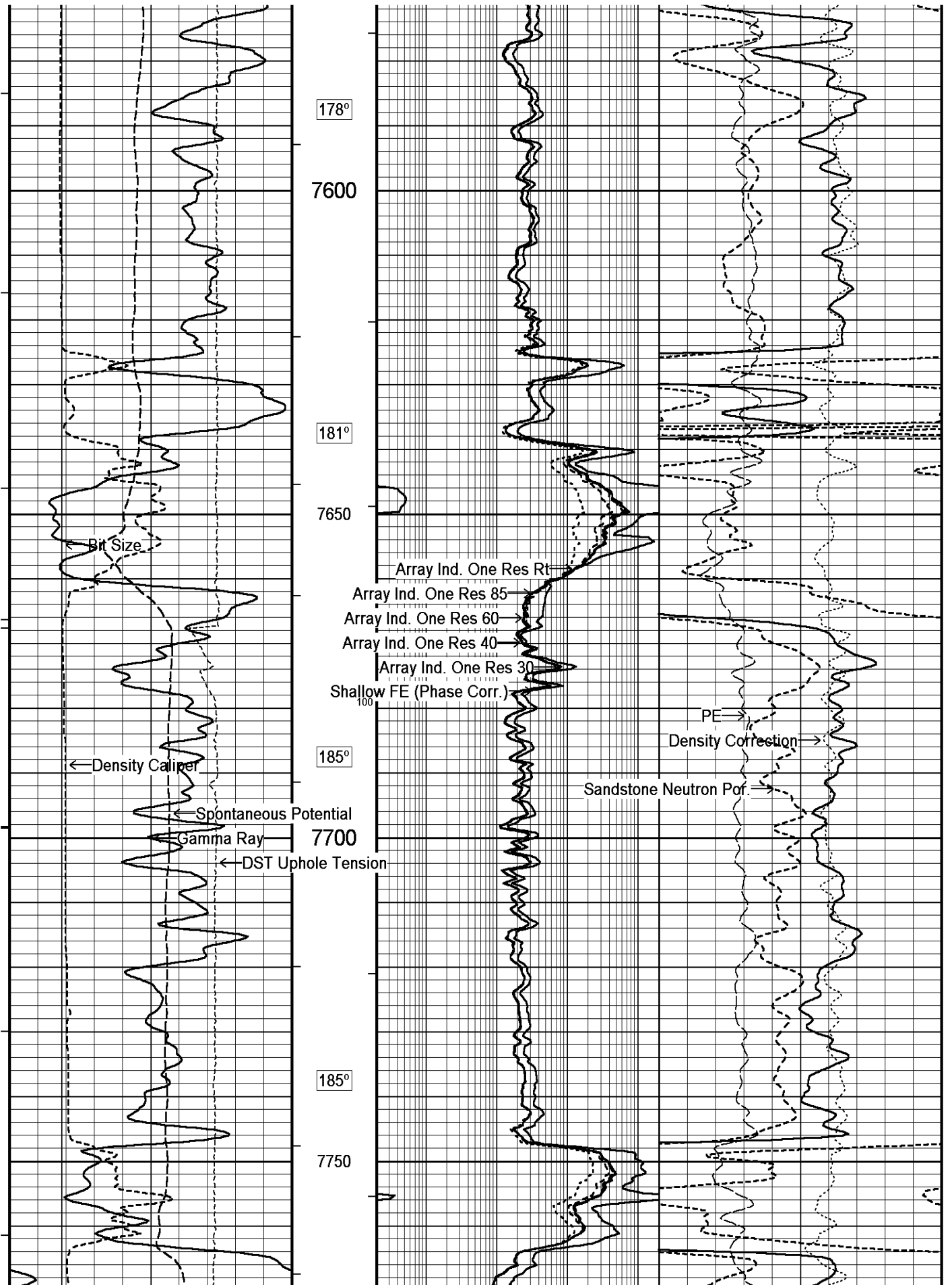


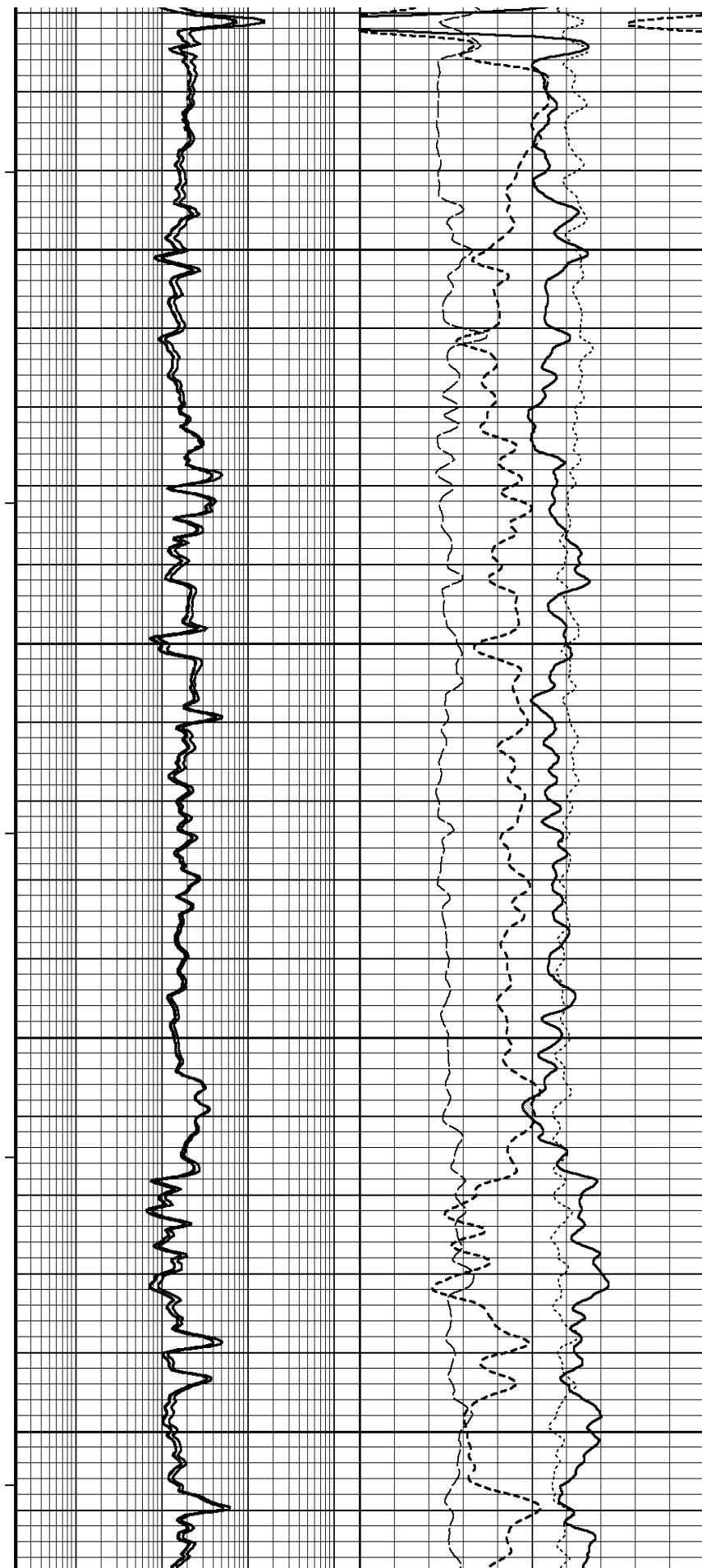
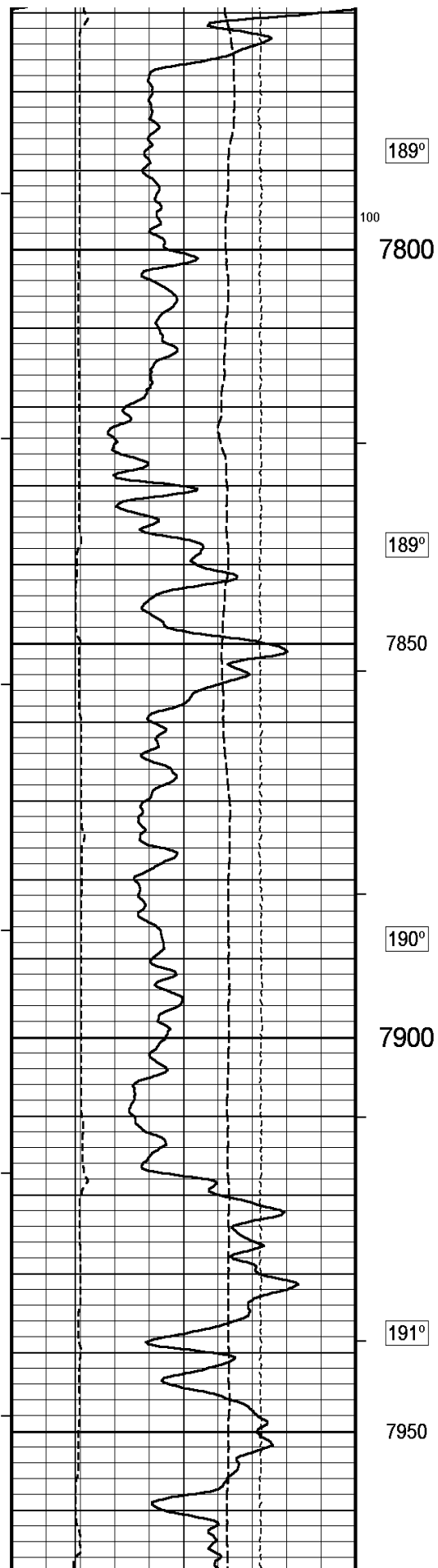


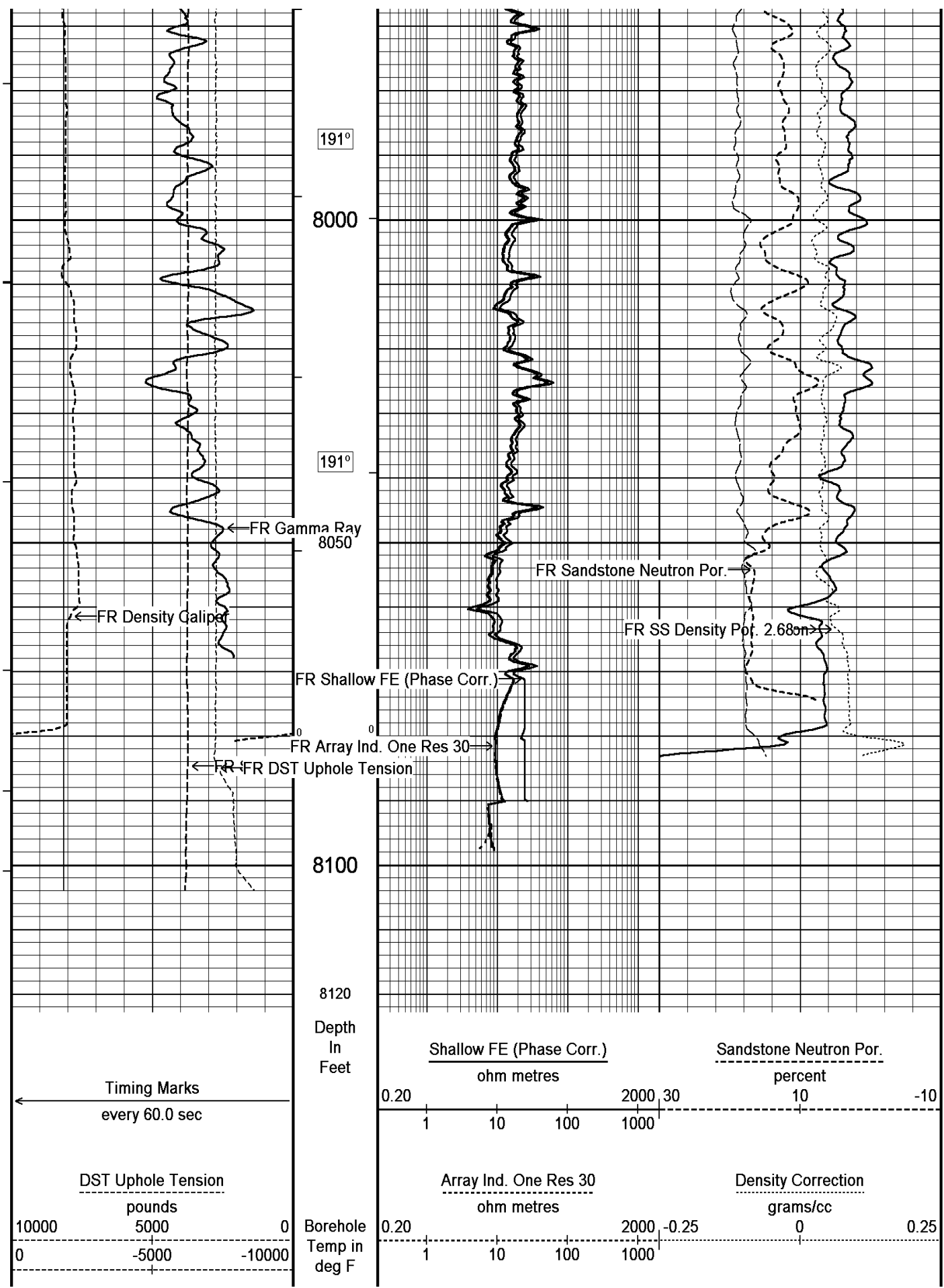


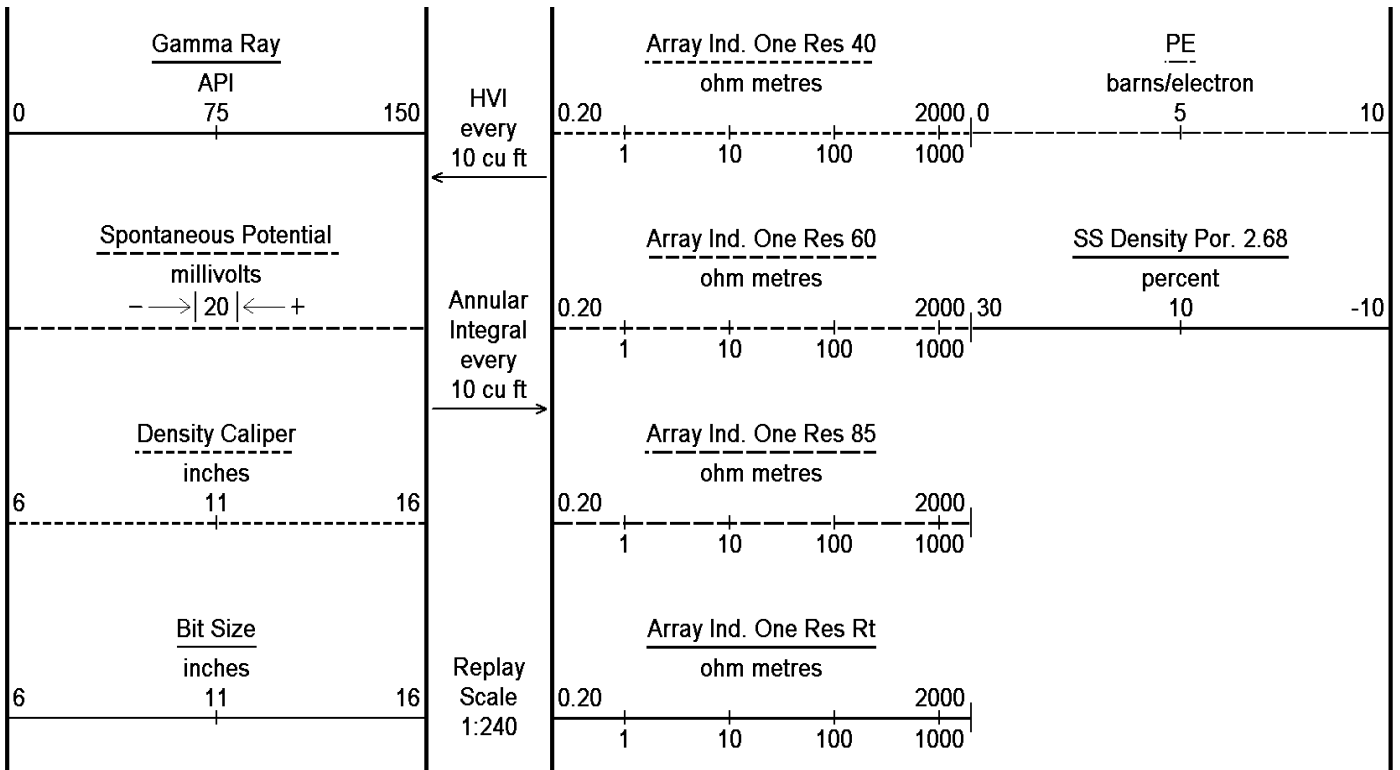










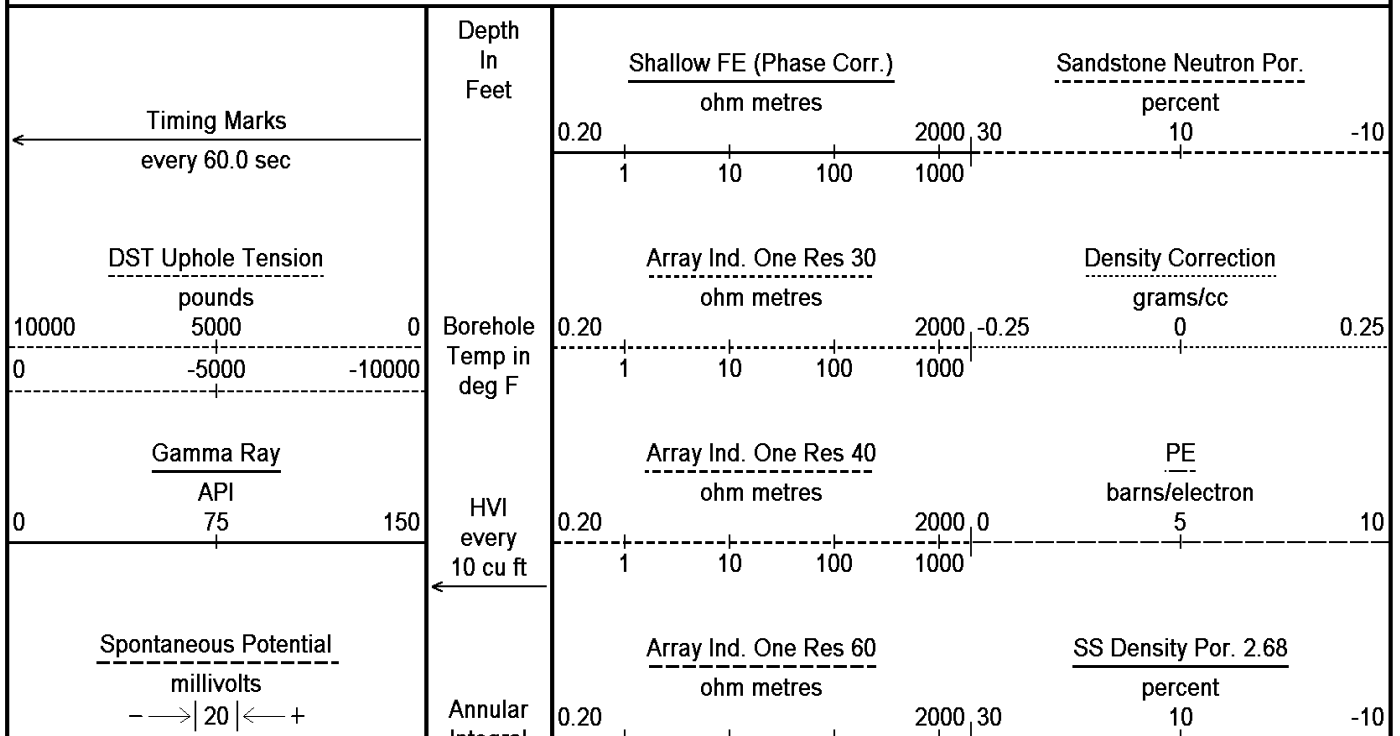


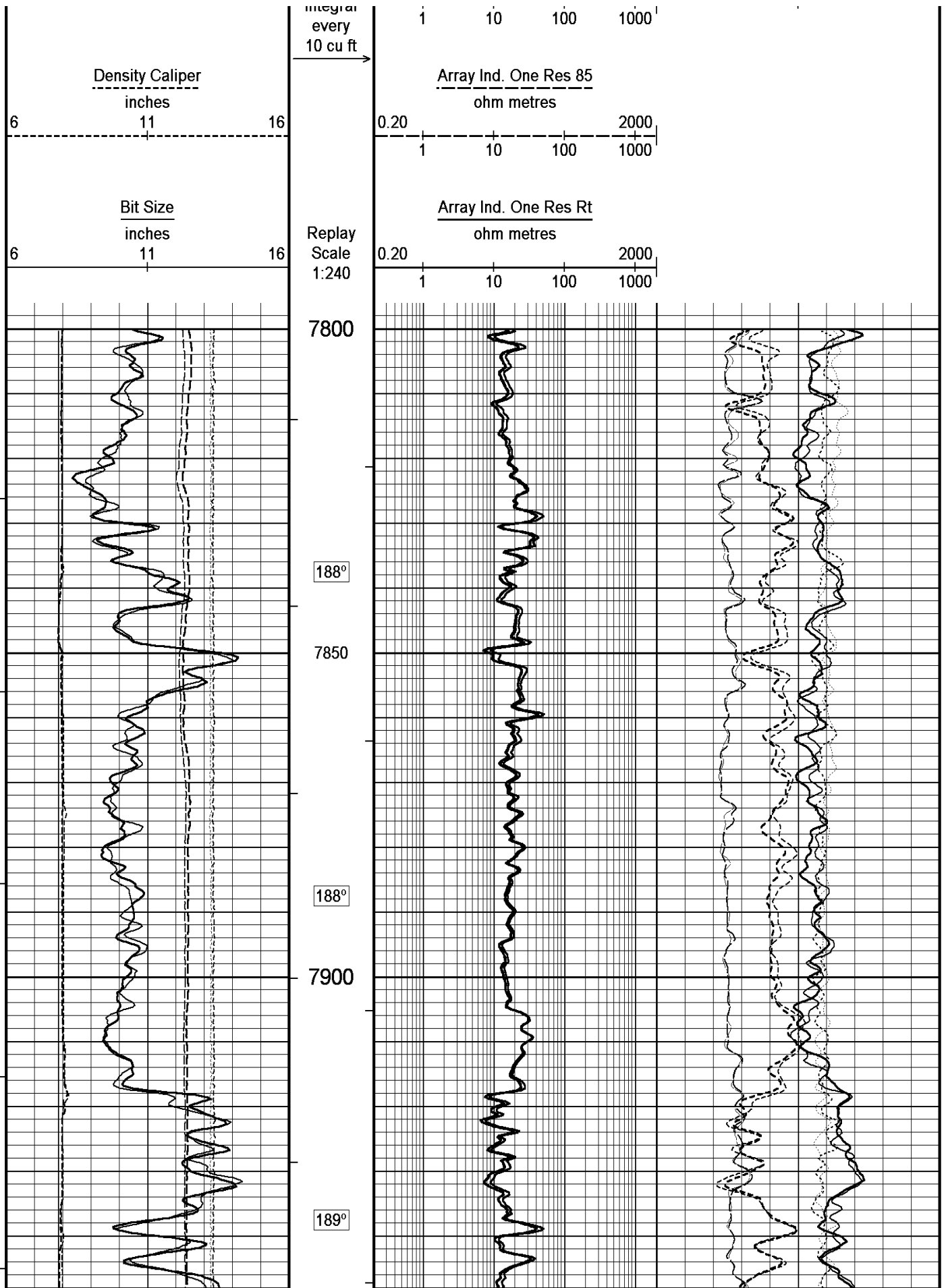
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 Plotted on 10-JUN-2011 19:42  
 Filename: C:\Minimus\Logs\Bill Barrett\Bill Barrett CB-TG Land 11B-20-...CB-TG Land 11B-20-695.dta  
 Recorded on 10-JUN-2011 16:08  
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

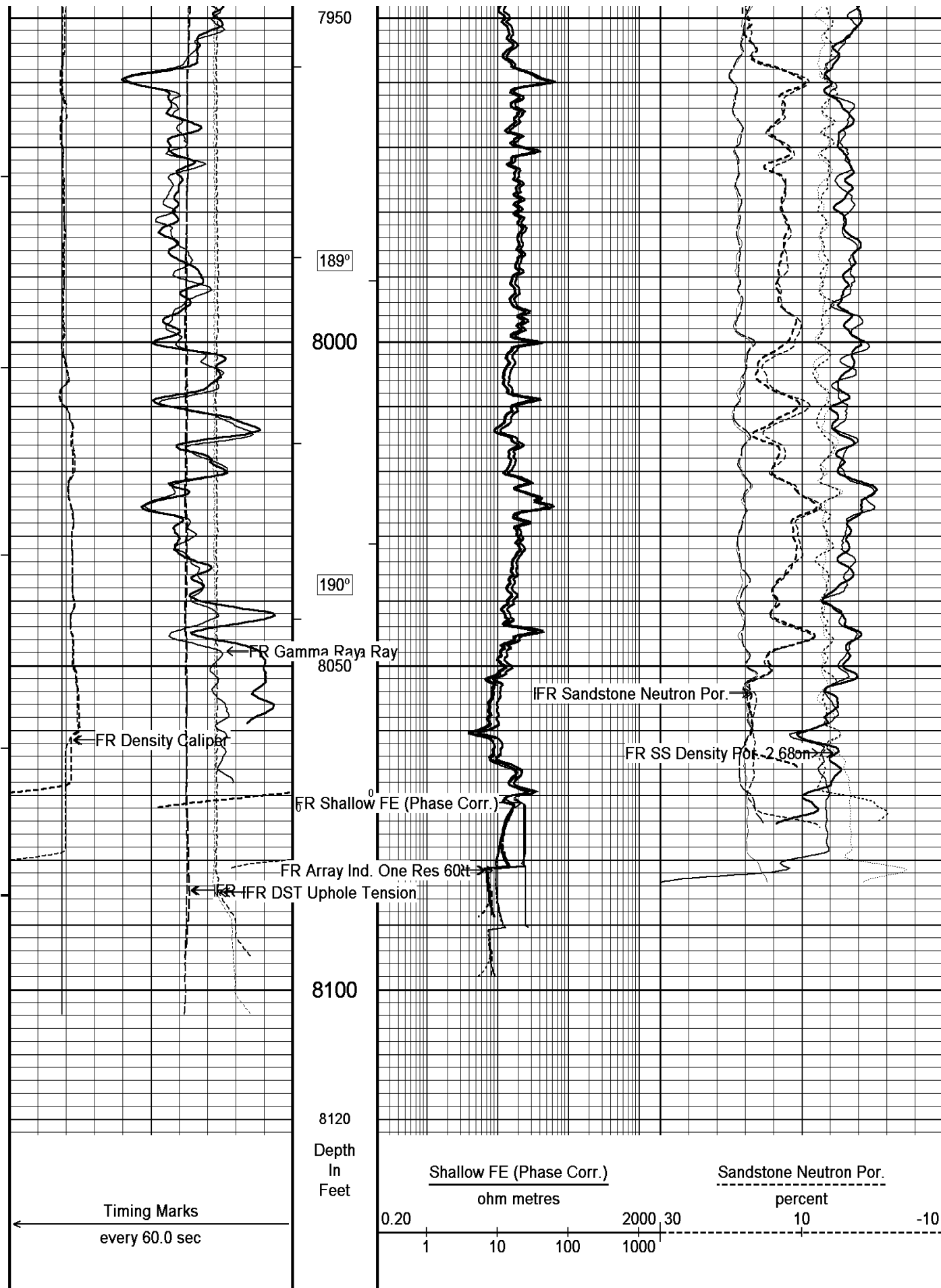
↑ 5 INCH MAIN LOG ↑

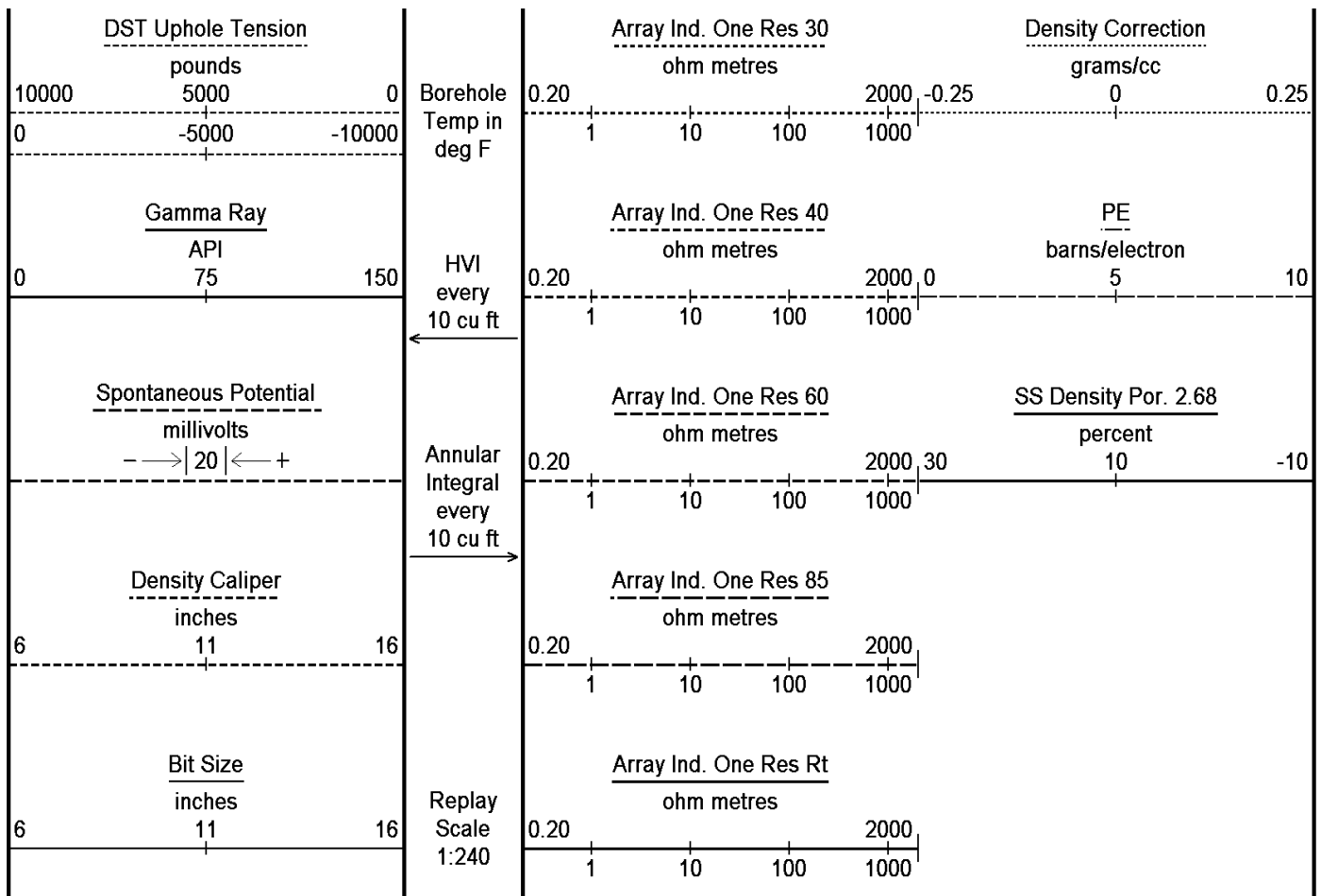
↓ OVERLAY ↓

Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 10-JUN-2011 19:42  
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 Recorded on 10-JUN-2011 15:49  
 Filename: C:\Minimus\Logs\Bill Barrett\Bill Barrett CB-TG Land 11B-20-...CB-TG Land 11B-20-695.dta  
 Recorded on 10-JUN-2011 16:08  
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186









Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 10-JUN-2011 19:42  
 Filename: C:\Minimus\Logs\Bill Barrett\Bill Barrett CB-TG Land 11B-20-... \CB-TG Land 11B-20-694.dta  
 Recorded on 10-JUN-2011 15:49  
 Filename: C:\Minimus\Logs\Bill Barrett\Bill Barrett CB-TG Land 11B-20-... \CB-TG Land 11B-20-695.dta  
 Recorded on 10-JUN-2011 16:08  
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

↑ OVERLAY ↑

BEFORE SURVEY CALIBRATION		
C:\Minimus\Logs\Bill Barrett\Bill Barrett CB-TG Land 11B-20-692\CB-TG Land 11B-20-694.dta		
General Constants All 000		Last Edited on 10-JUN-2011,14:47
General Parameters		
Mud Resistivity	3.100	ohm-metres
Mud Resistivity Temperature	93.500	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. Two Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0			Field Calibration on 10-JUN-2011 14:22	
Reading No	Measured	Calibrated (lbs)		
1	14398.64	0.00		
2	15253.74	269.00		
High Resolution Temperature Calibration MCG-C 145			Field Calibration on 17-NOV-2010,12:09	
	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 31-MAY-2011 11:16	
	Measured	Calibrated (mV)		
Reference 1	103.7	100.1		
Reference 2	-96.4	-100.1		
Gamma Calibration MCG-C 145			Field Calibration on 10-JUN-2011 07:46	
	Measured	Calibrated (API)		
Background	74	52		
Calibrator (Gross)	760	532		
Calibrator (Net)	686	480		
Gamma Constants MCG-C 145			Last Edited on 10-JUN-2011,13:54	
Gamma Calibrator Number	GRCC 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 10-JUN-2011 08:10	
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	U.677	
Field Check	Calibrated (cps)	
	1671	2444
Ratio	0.684	
Neutron Constants MDN-B.A 191		Last Edited on 10-JUN-2011,13:54
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 10-JUN-2011 07:34
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 10-JUN-2011,13:53
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 10-JUN-2011 07:39
Base Calibration		
Test Loop Calibration		
Channel	Low	High
1	16.0	468.7
2	6.2	374.5
3	3.6	258.3
4	1.8	133.1
	Low	High
	9.3	966.2
	7.6	821.4
	5.2	566.0
	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 10-JUN-2011,13:52

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 10-JUN-2011 07:56

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
^	***	***



SHA-J.A Compact Swivel Head Adaptor  
 SHA-J.A 511 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

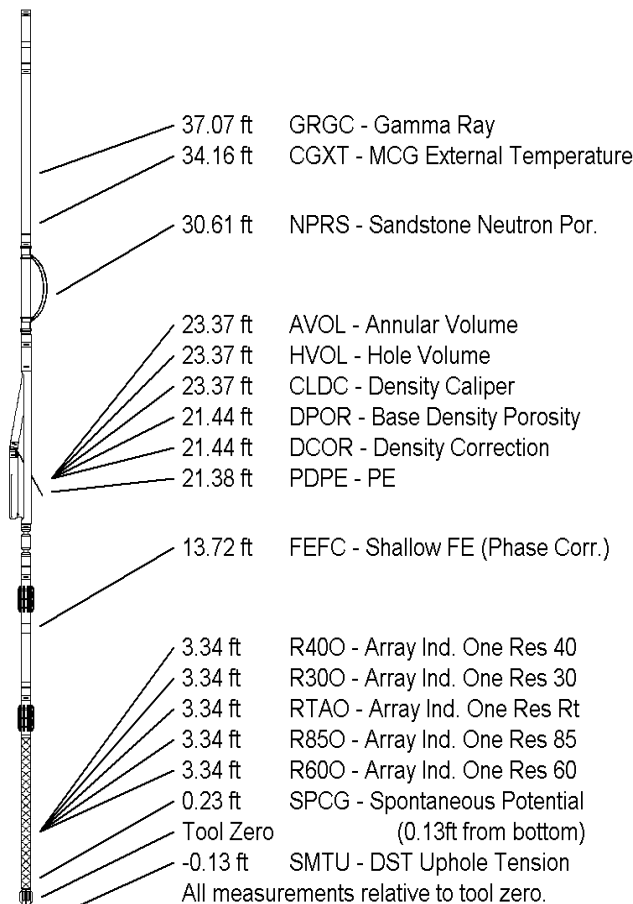
Compact Density/Caliper  
 MPD-C.A 215 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-E.B Compact Knuckle Joint  
 SKJ-E.B 536 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	CB-TG LAND 11B-20-692
FIELD	MAMM CREEK
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	5553.00	feet	First Reading	8082.00
Elevation Drill Floor	5552.00	feet	Depth Driller	8090.00 feet
Elevation Ground Level	5530.00	feet	Depth Logger	8085.00 feet



**Weatherford®**

COMPACT TRIPLE COMBO  
 QUICKLOOK  
 LOG

