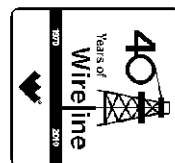




Weatherford

COMPACT TRIPLE COMBO QUICKLOOK LOGS



COMPANY	WEXPRO COMPANY		
WELL	CARL ALLEN 41		
FIELD	POWDER WASH		
PROVINCE/COUNTY	MOFFAT		
COUNTRY/STATE	USA/COLORADO		
LOCATION	SHL: 1054' FSL & 710' FWL		
SEC	TWP	RGE	Other Services
28	12N	97W	CXD
API Number	0508107644		
Permit Number			
Permanent Datum G.L., Elevation 6660 feet			Elevations: feet
Log Measured From KB			KB 6689.00
Drilling Measured From KB			DF 6689.00
			GL 6660.00
Date	24-JAN-2012		
Run Number	1		
Depth Driller	9520.00	feet	
Depth Logger	6880.00	feet	
First Reading	6877.00	feet	
Last Reading	1532.00	feet	
Casing Driller	1534.00	feet	
Casing Logger	1532.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	WBM		
Density / Viscosity	10.30 lb/USg	42.00 CP	
PH / Fluid Loss	10.30	6.80 cc/30min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	2.60 @ 73.8	ohm-m	
Rmf @ Measured Temp	2.08 @ 73.8	ohm-m	
Rmc @ Measured Temp	3.12 @ 73.8	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.19 @165.0	ohm-m	
Time Since Circulation	6 HOURS		
Max Recorded Temp	165.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13144	RK SPR	
Recorded By	A.VAN BRUNT		J.LIU
Witnessed By	SLAWS		

BOREHOLE RECORD

Last Edited: 24-JAN-2012 05:41

Bit Size inches	Depth From feet	Depth To feet
7.875	1534.00	9520.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	1534.00	36.00

REMARKS

SOFTWARE VERSION 12.02.4401

TOOLS RUN: SHA, MCG, MDN, MPD, MIS-D, SKJ, MIS-B, SKJ, CXD, MFE, MAI RUN IN COMBINATION.

HARDWARE: MPD: 8" PROFILE PLATE USED.
MAI: TWO 1 INCH STANDOFFS USED.
MFE: ONE 1 INCH STANDOFF USED.
MDN: DUAL BOWSPRING USED.
CXD: TWO CENTRALIZING BASKETS

2.65 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

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

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

BRIDGED AT 6880FT. LOGGED UP FROM THERE

TOTAL HOLE VOLUME FROM BRIDGE @ 6880FT TO SURFACE CASING =2040 CUBIC FEET

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING FROM BRIDGE @ 6880FT TO SURFACE CASING = 1450 CUBIC FEET

SERVICE ORDER: #3531975

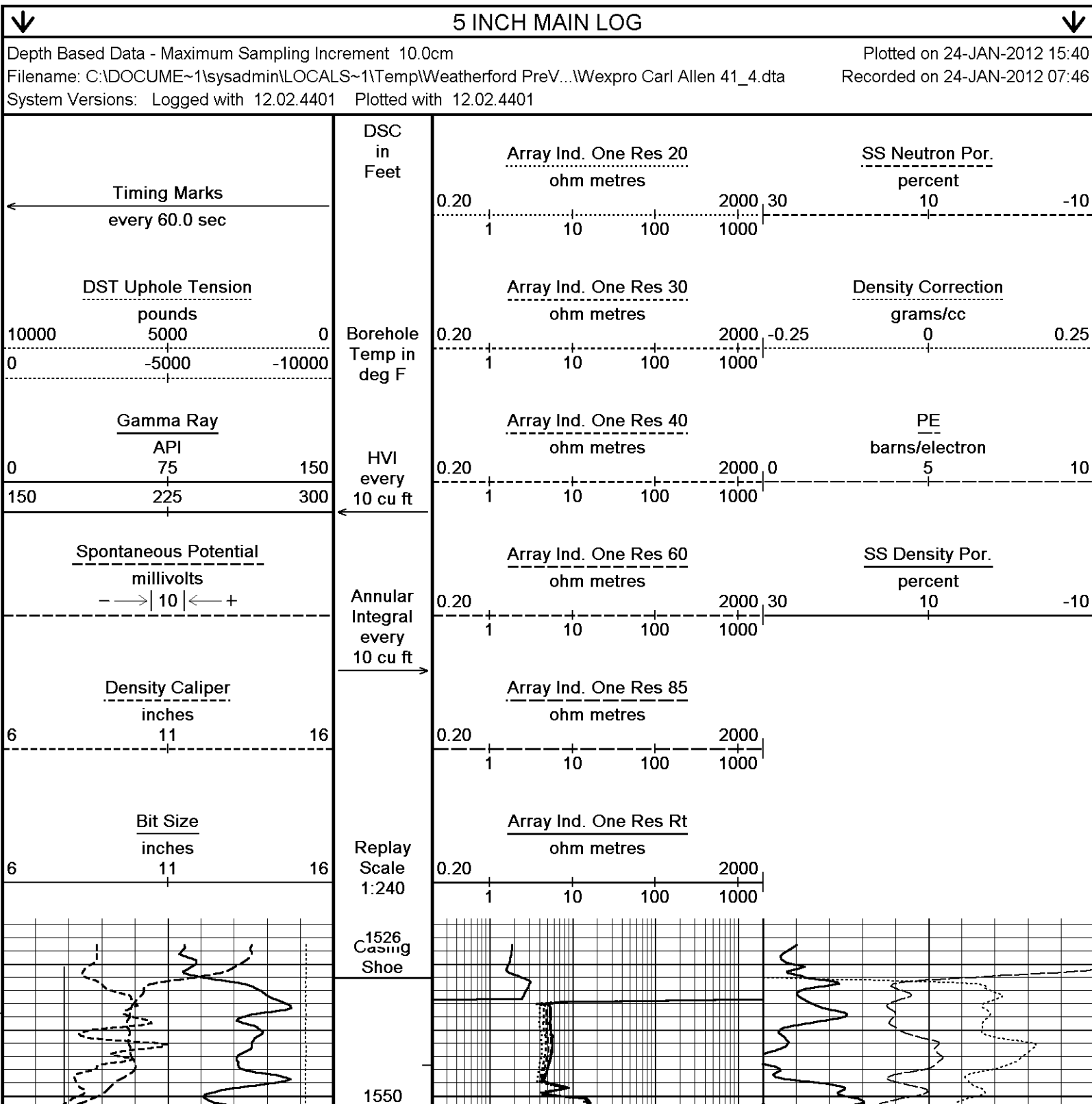
OPERATOR: R.MORITZ

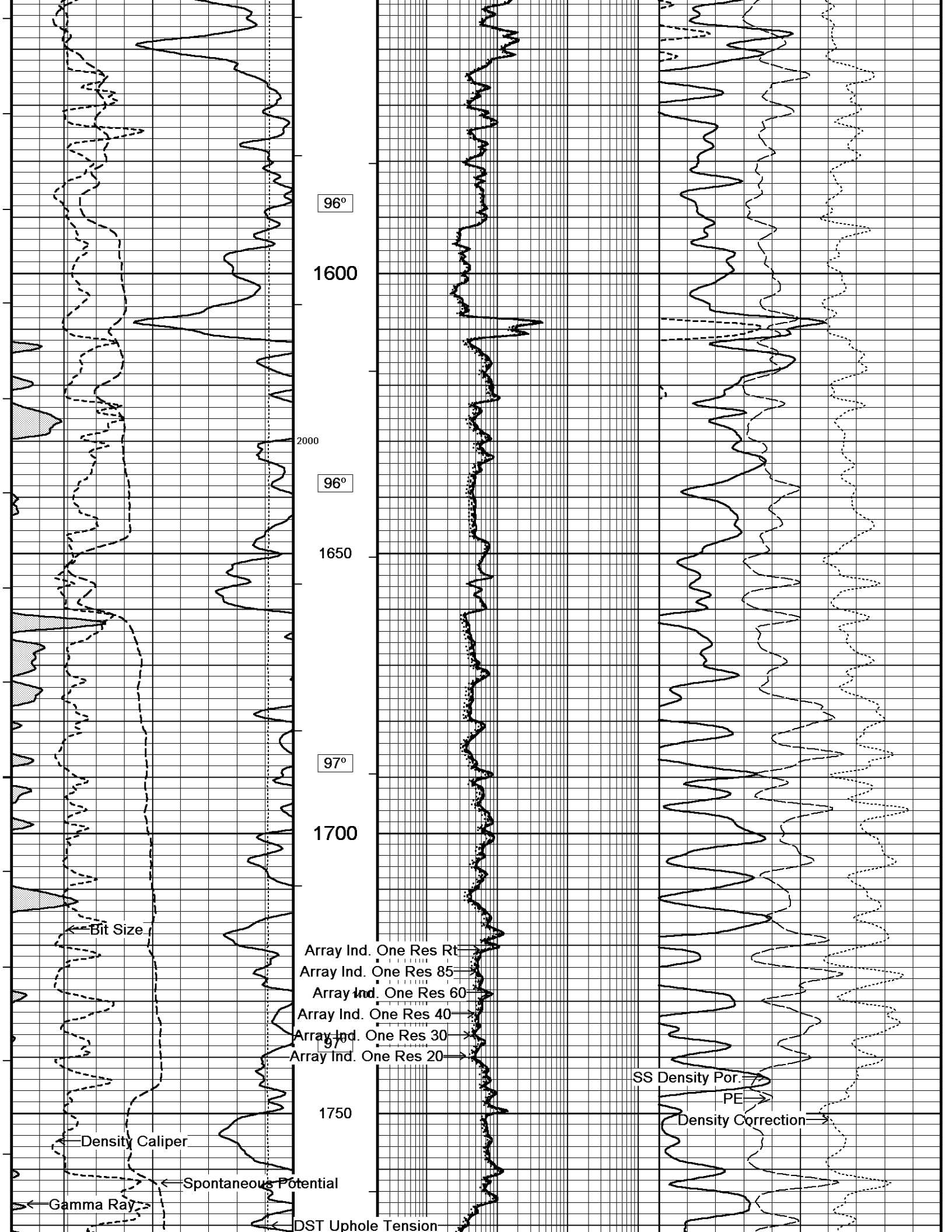
M.LAMOREAUX

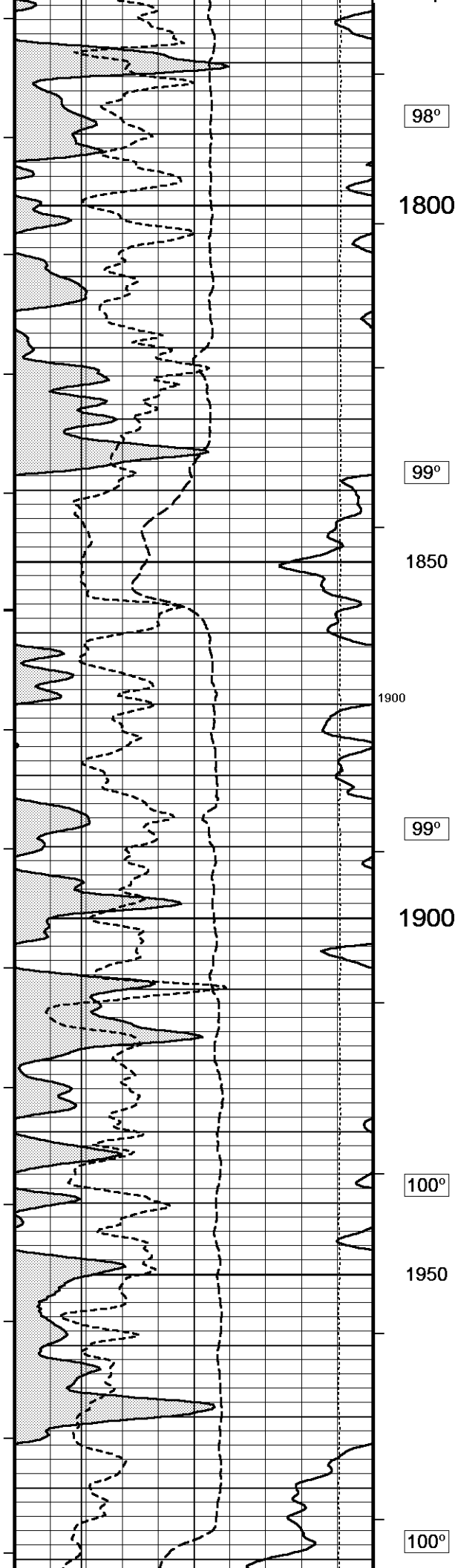
T.BENICH

RIG: SST 88

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.







98°

1800

99°

1850

1900

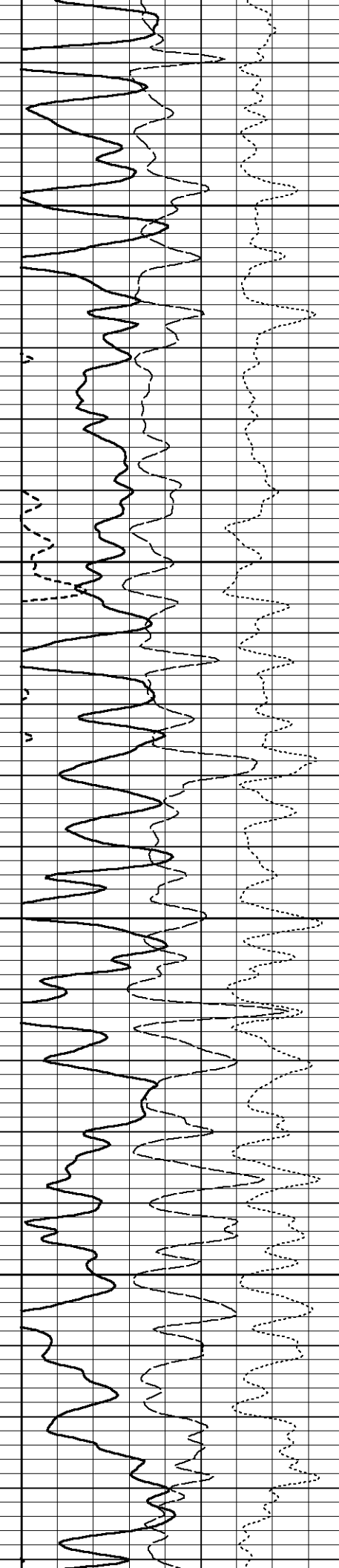
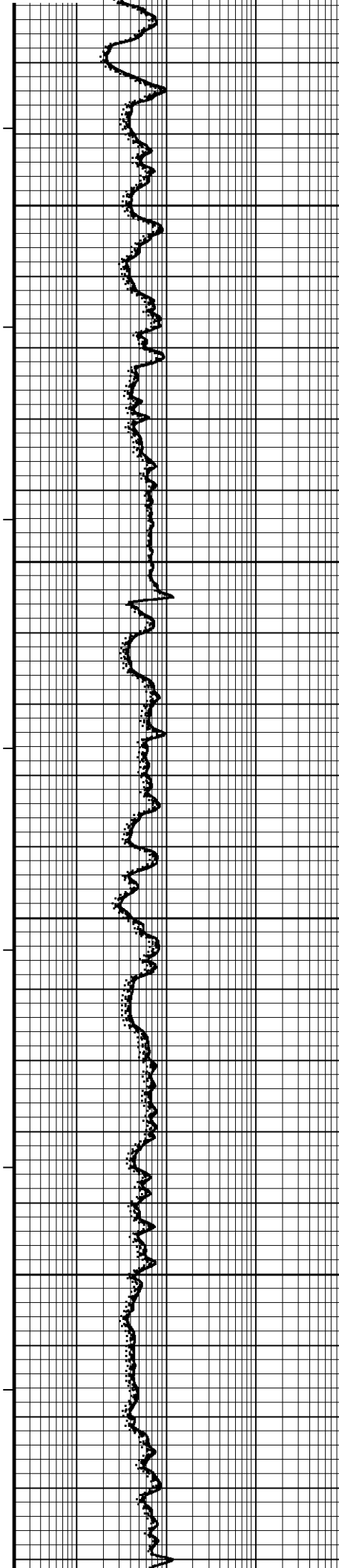
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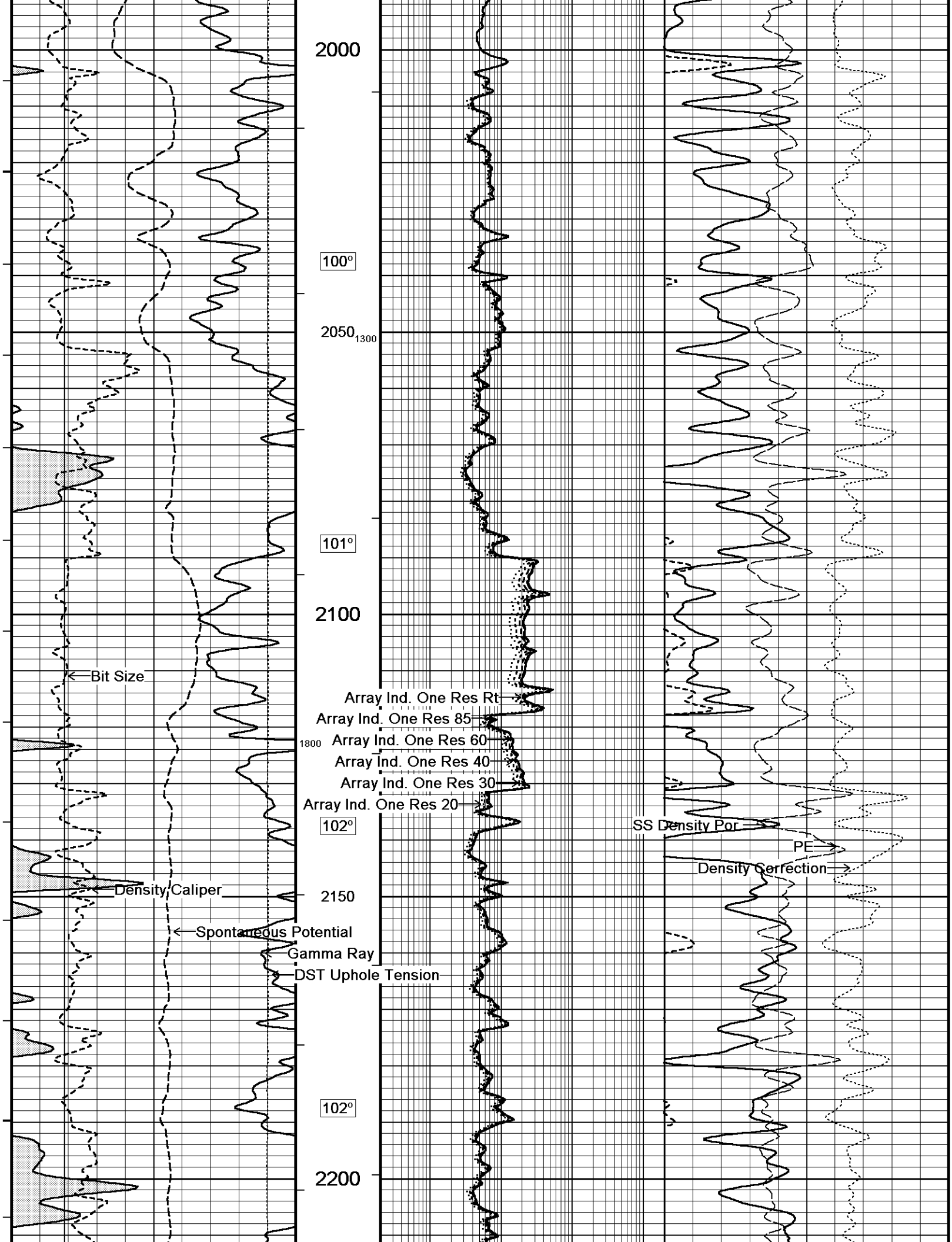
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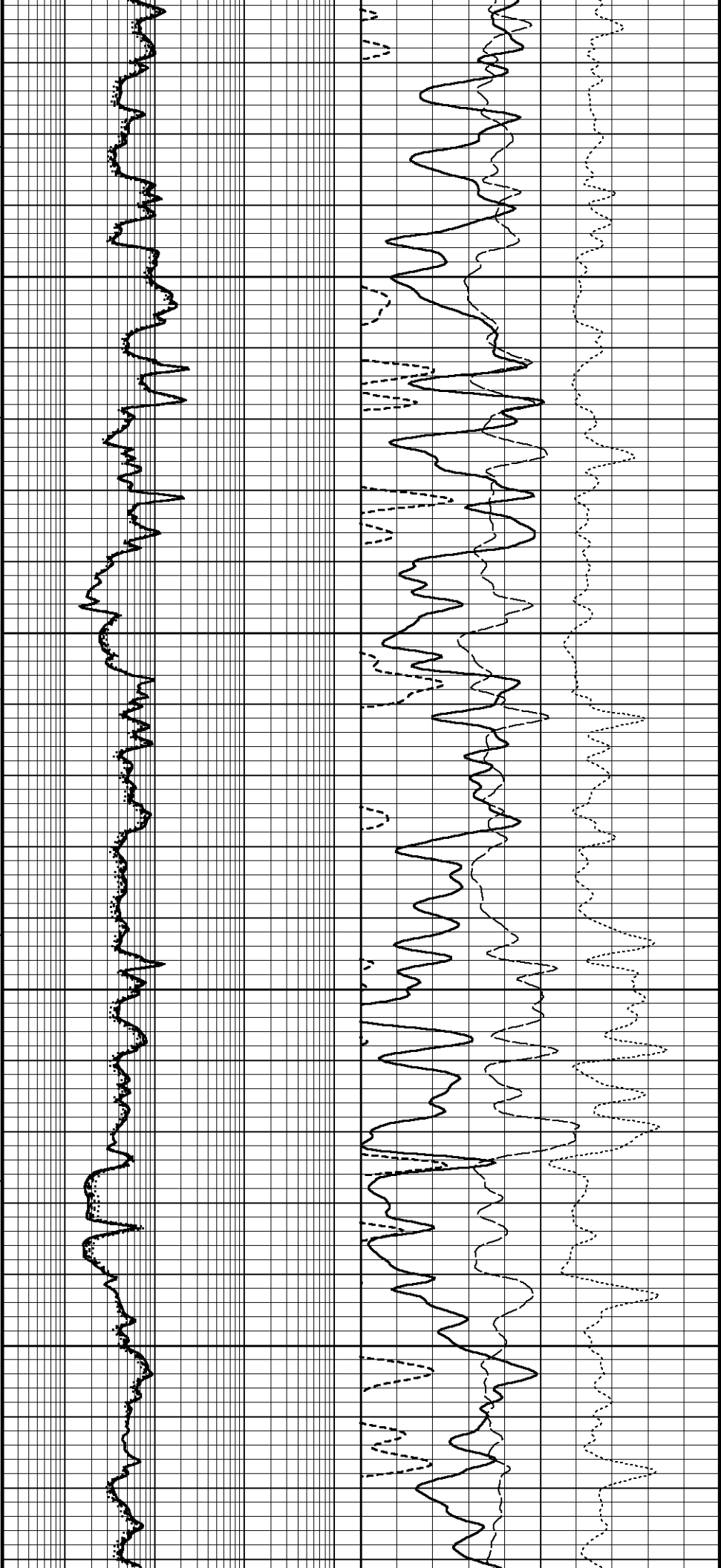
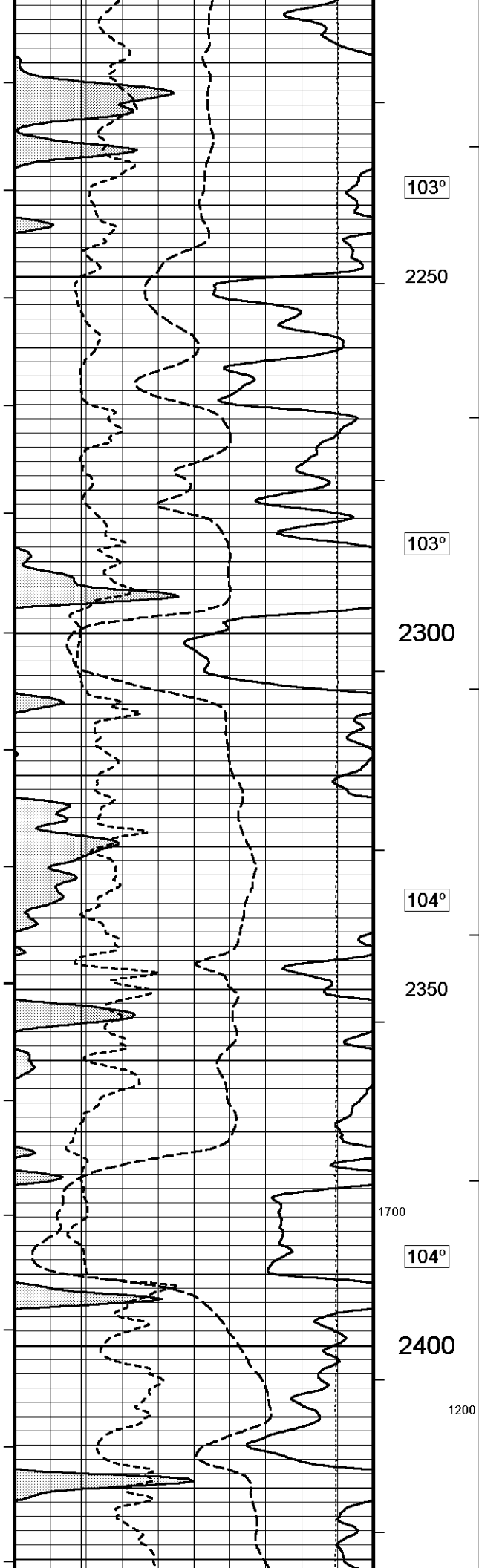
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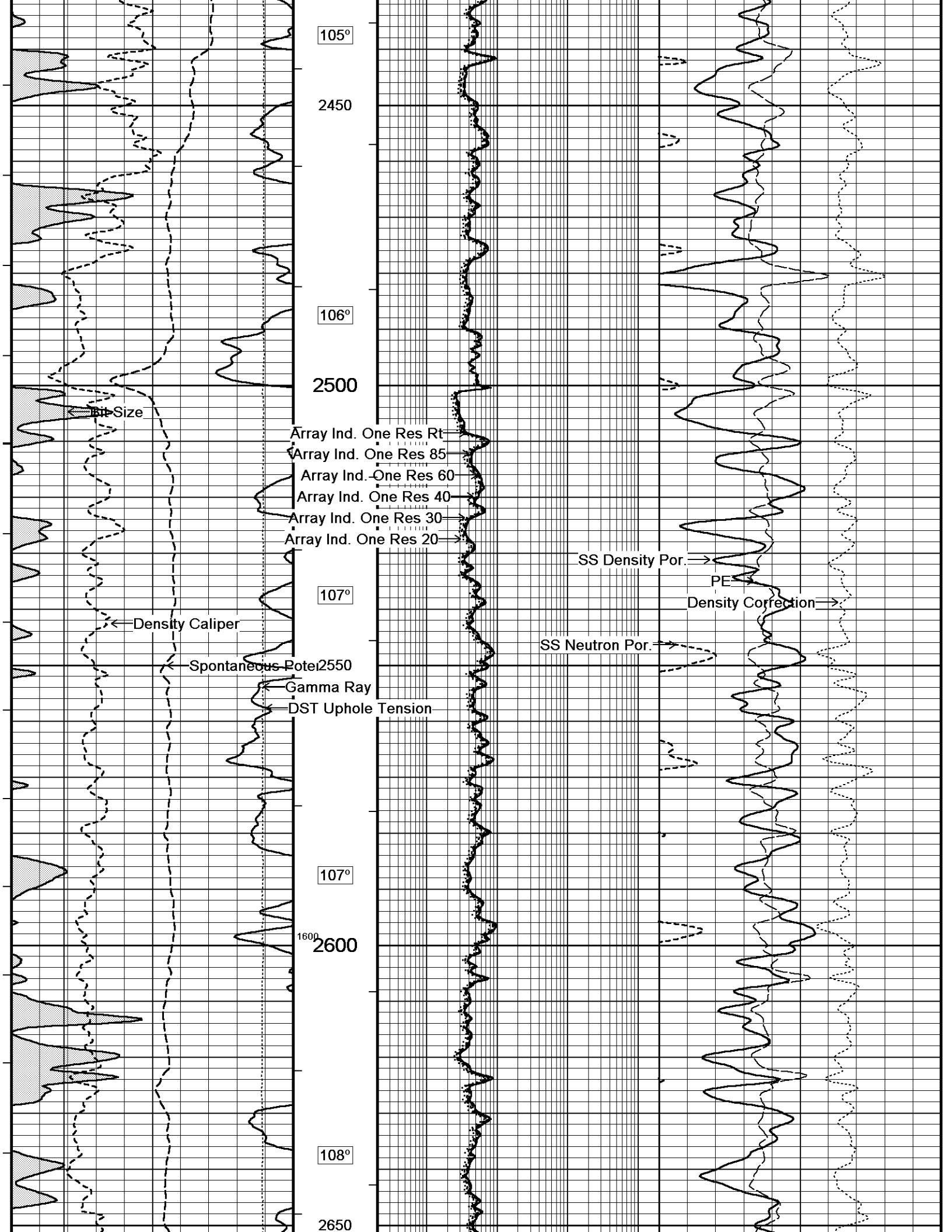
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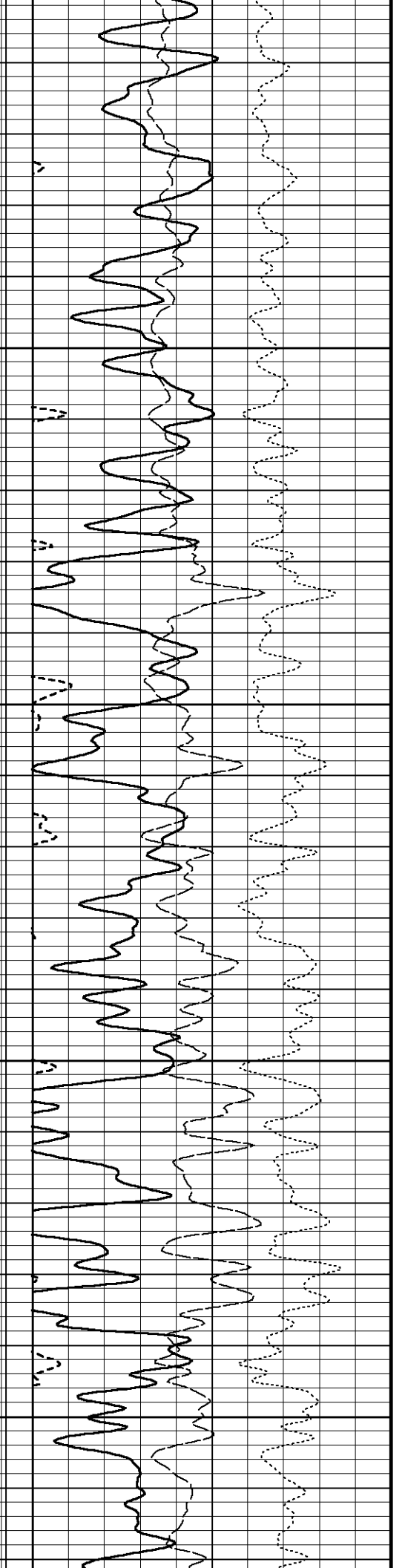
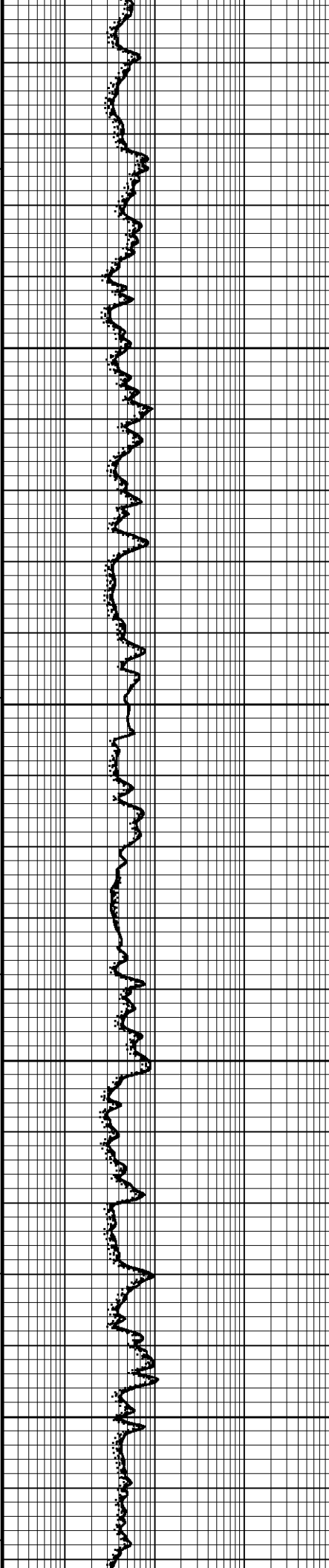
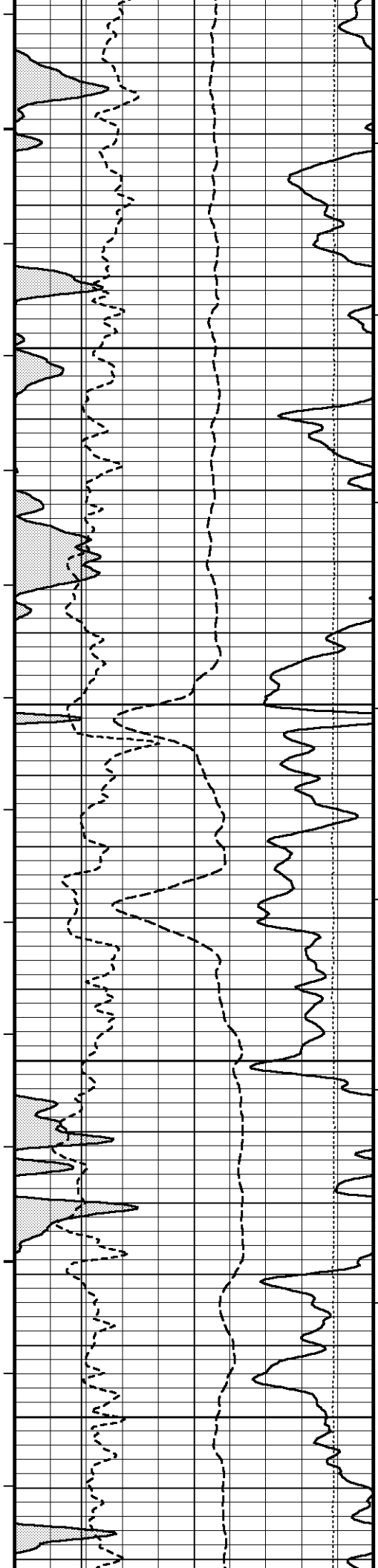
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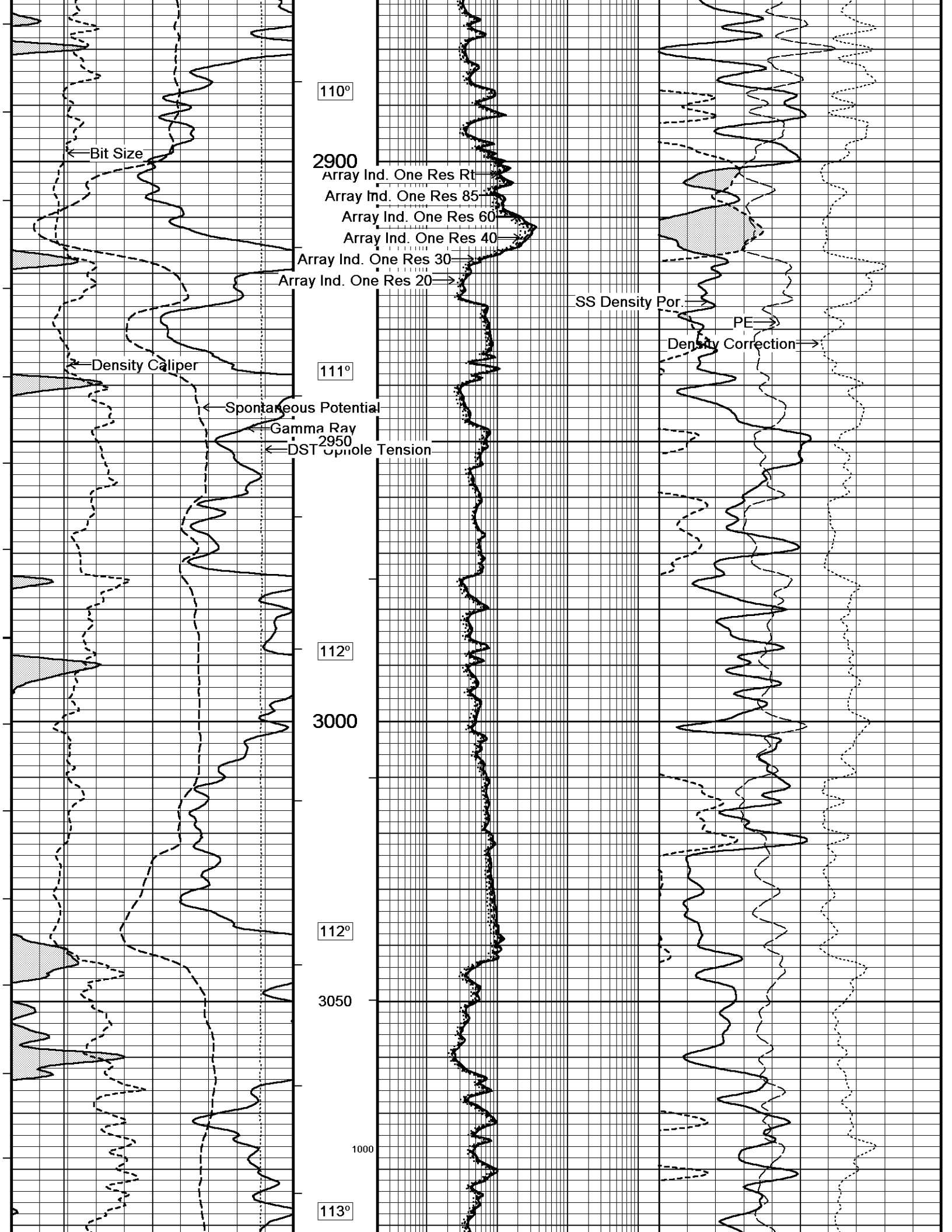


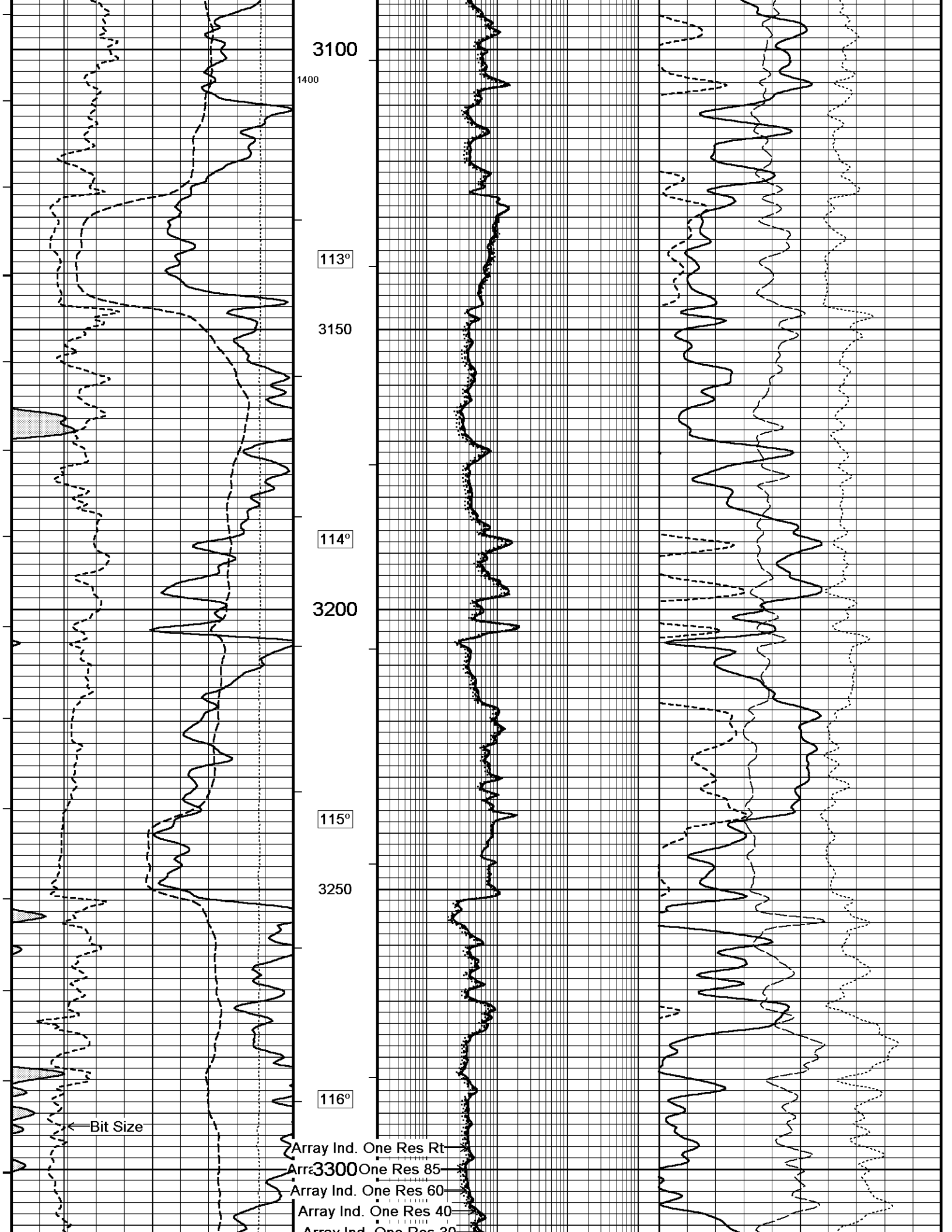


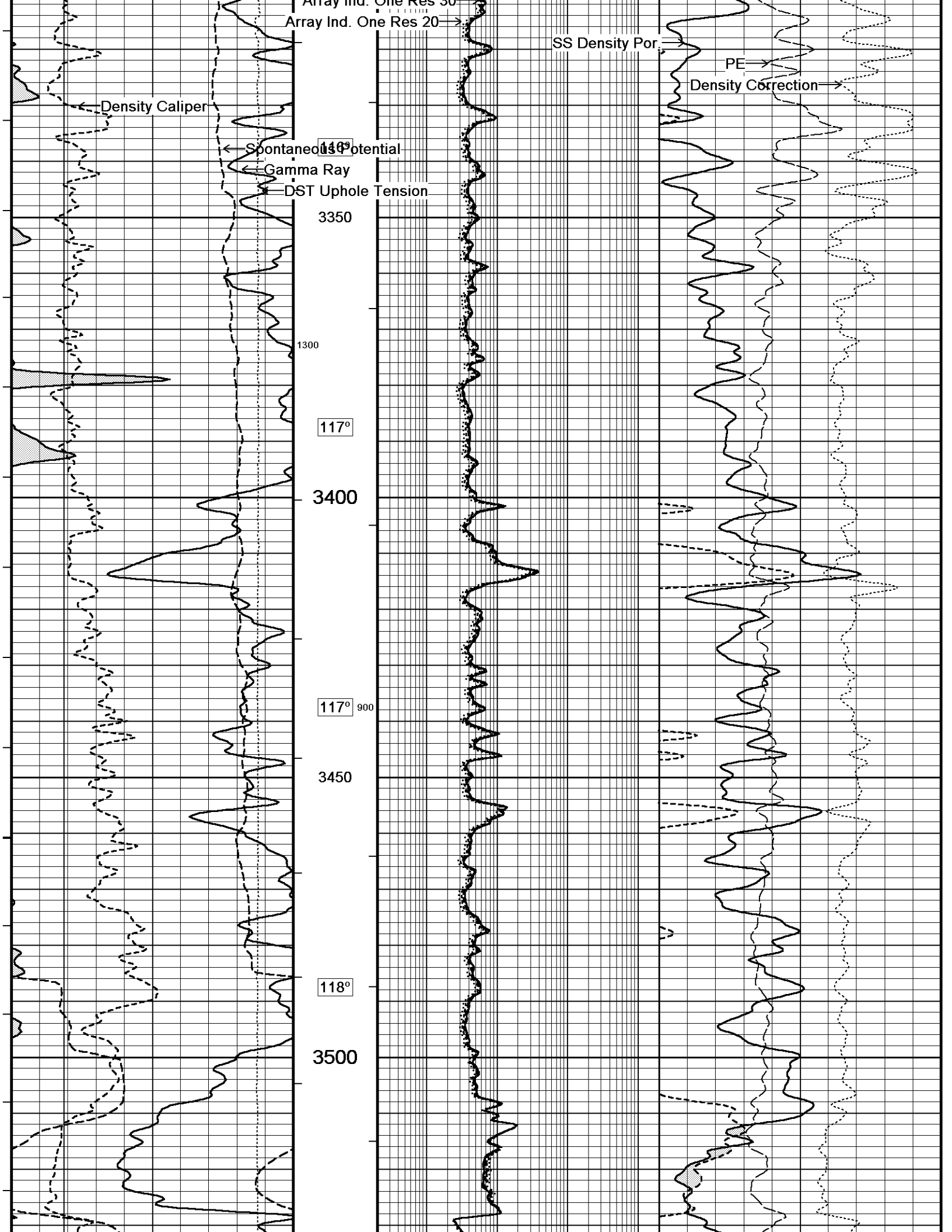


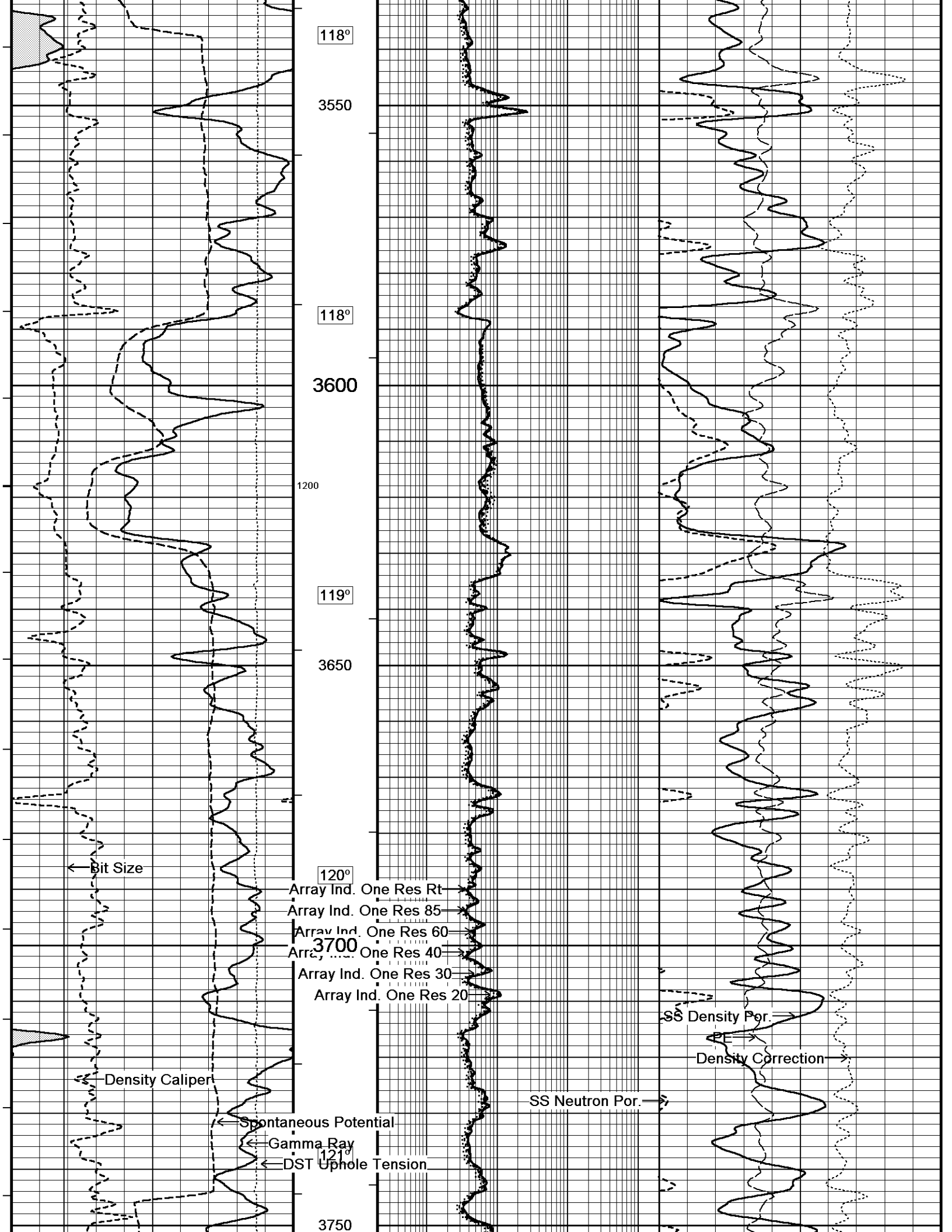


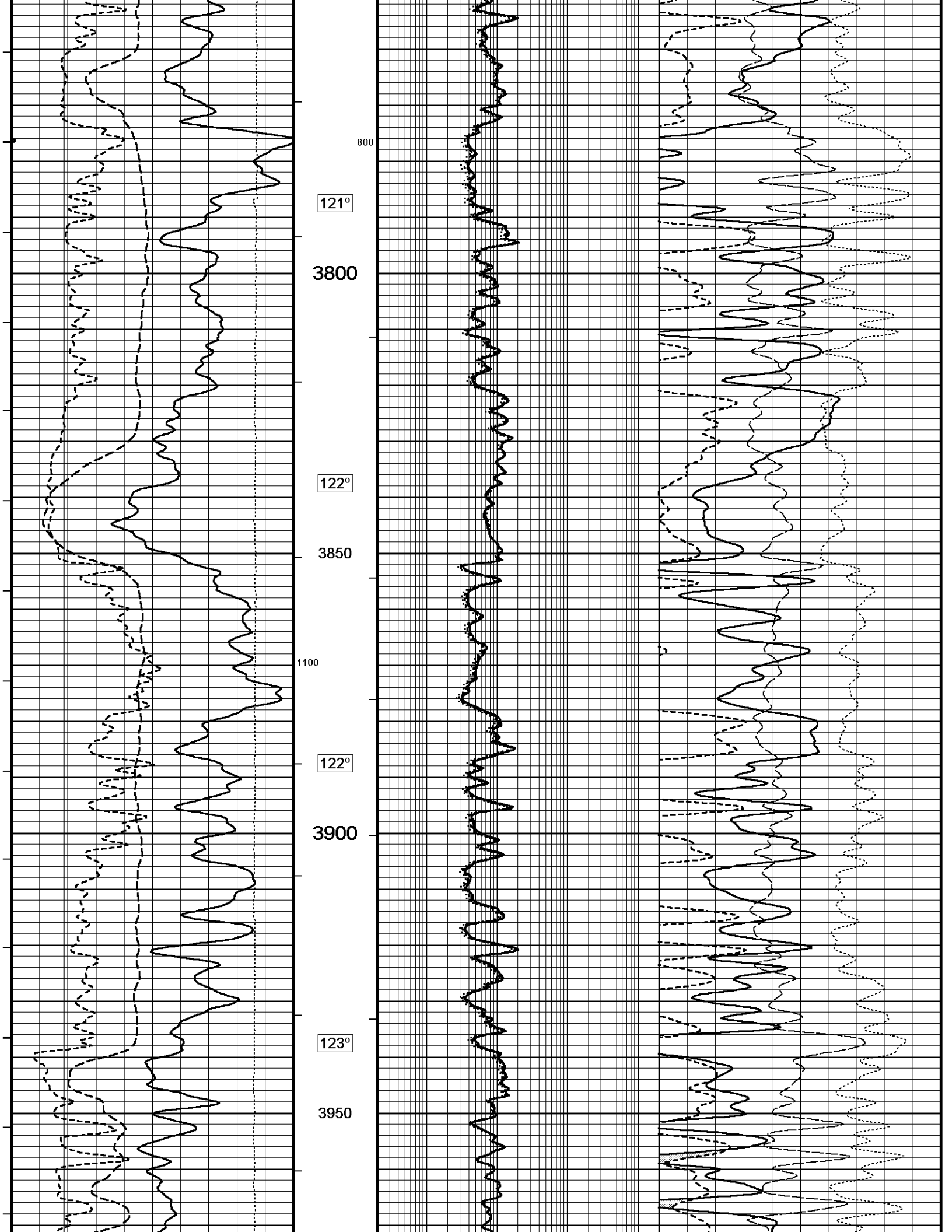


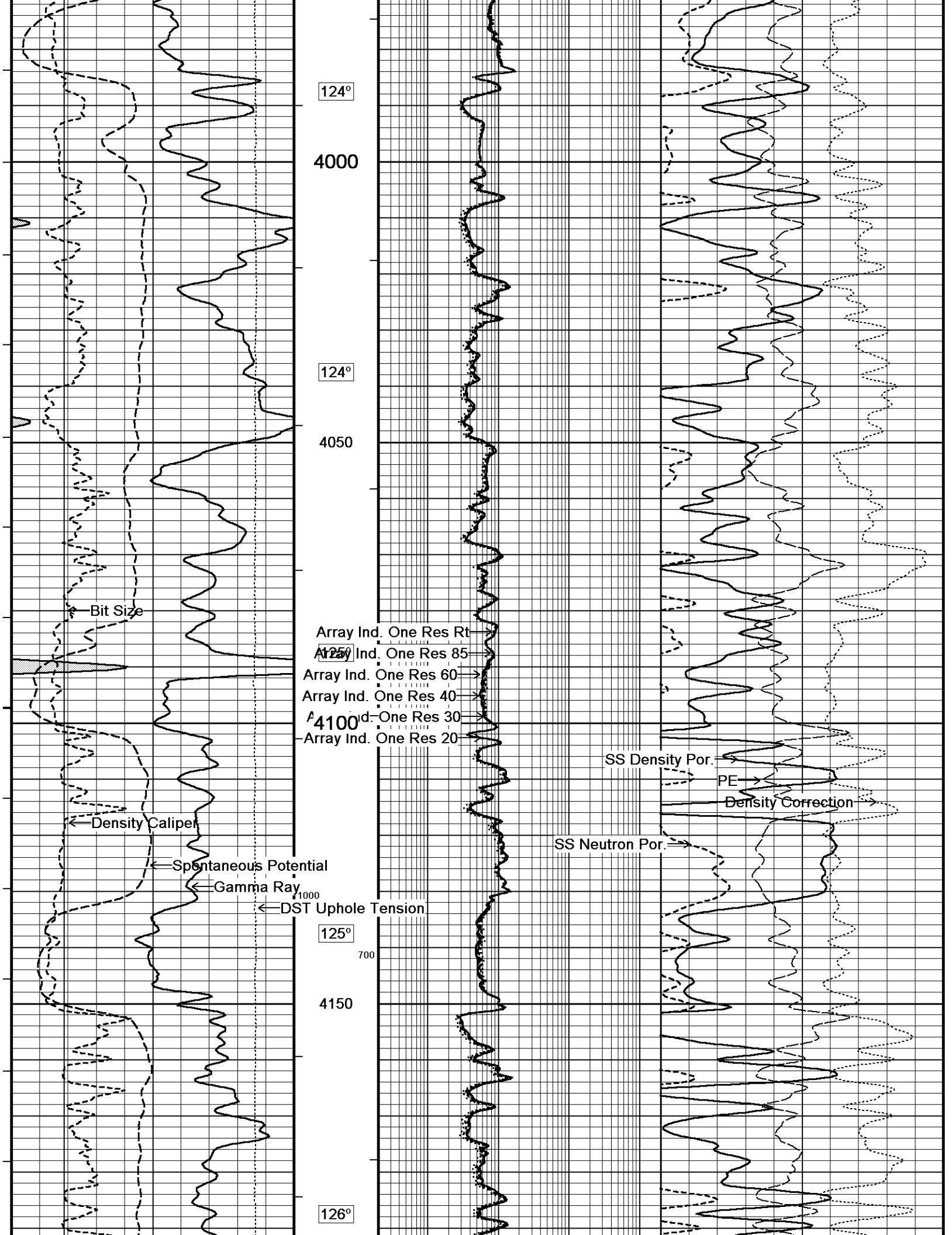


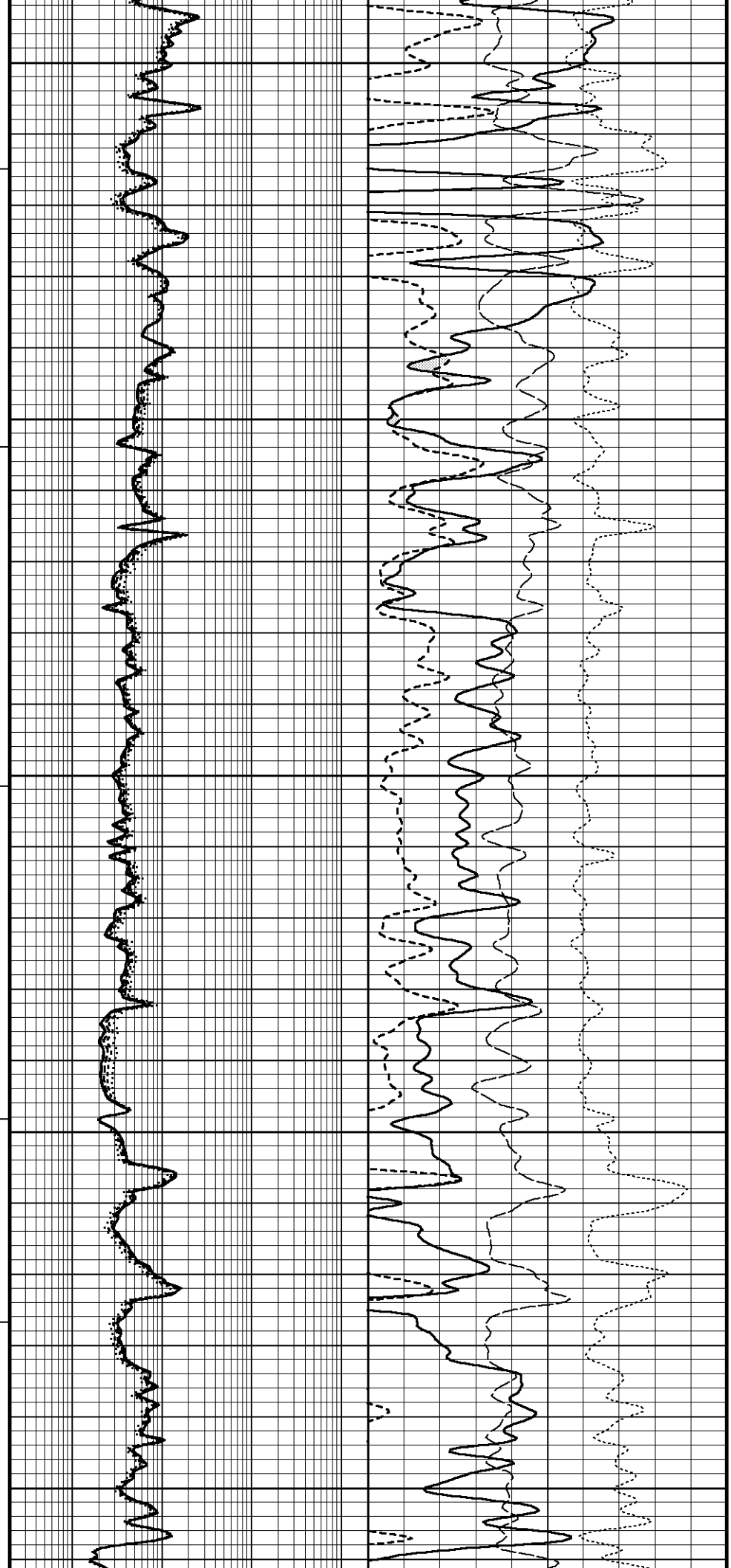
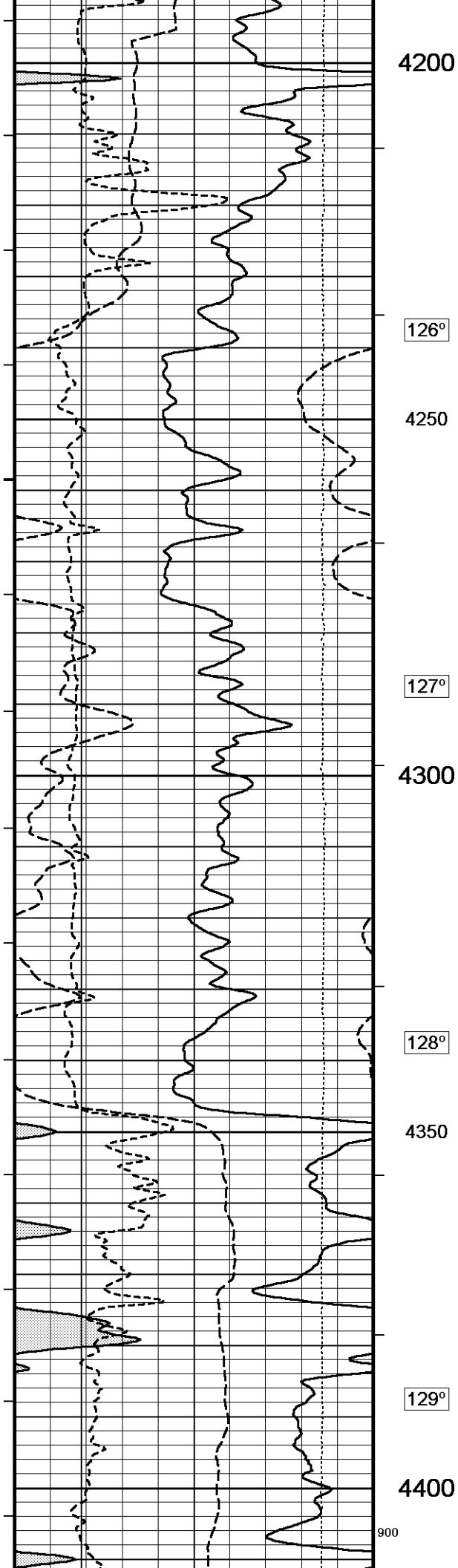


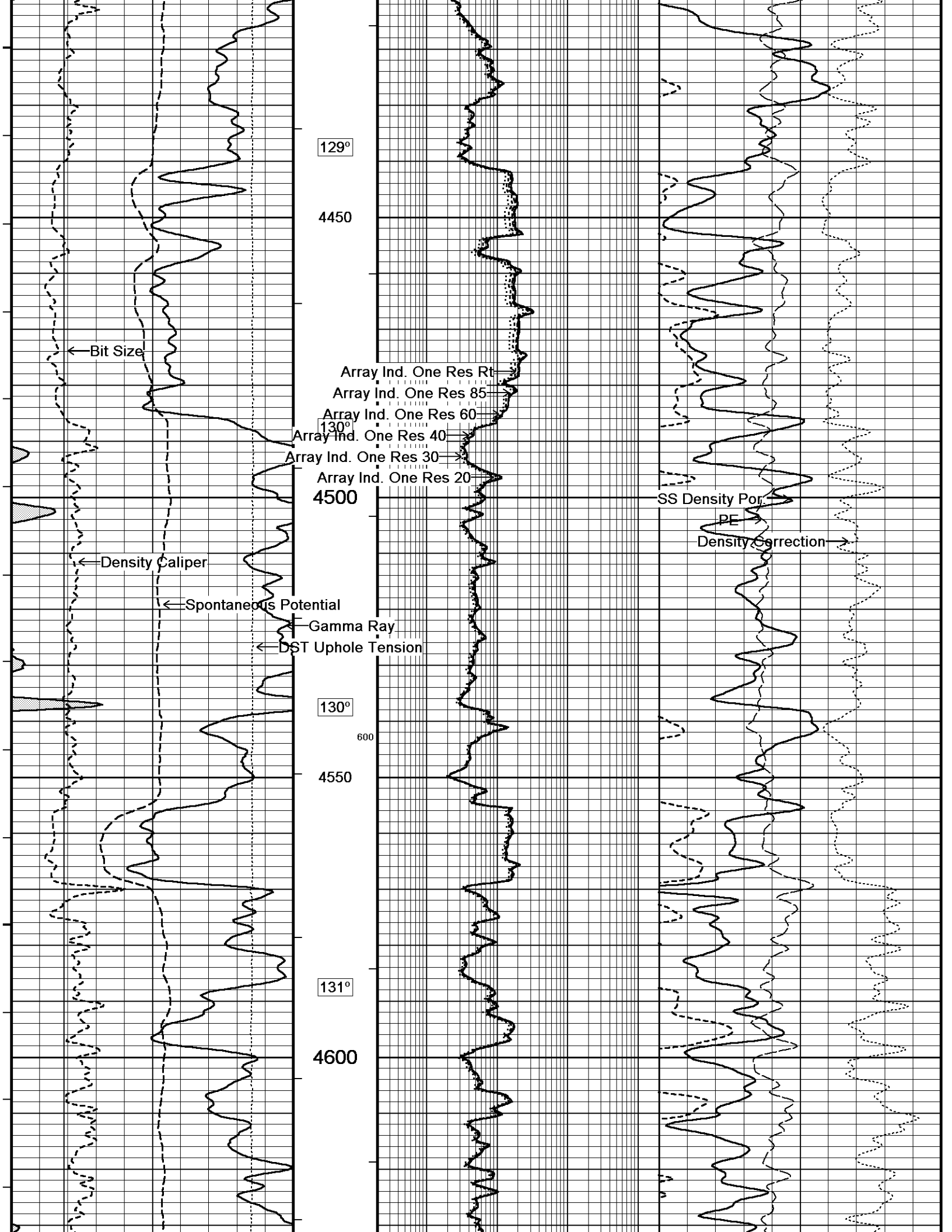


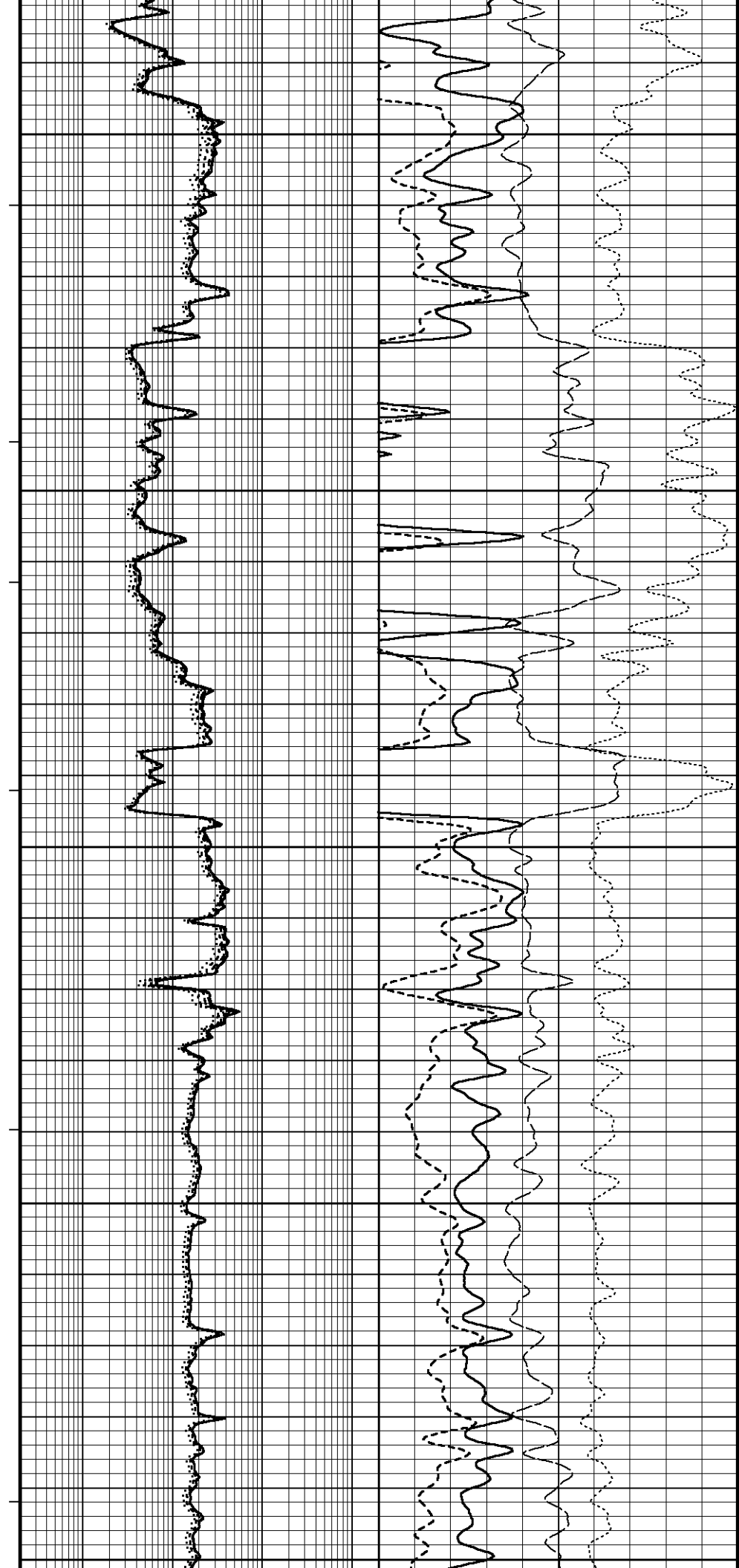
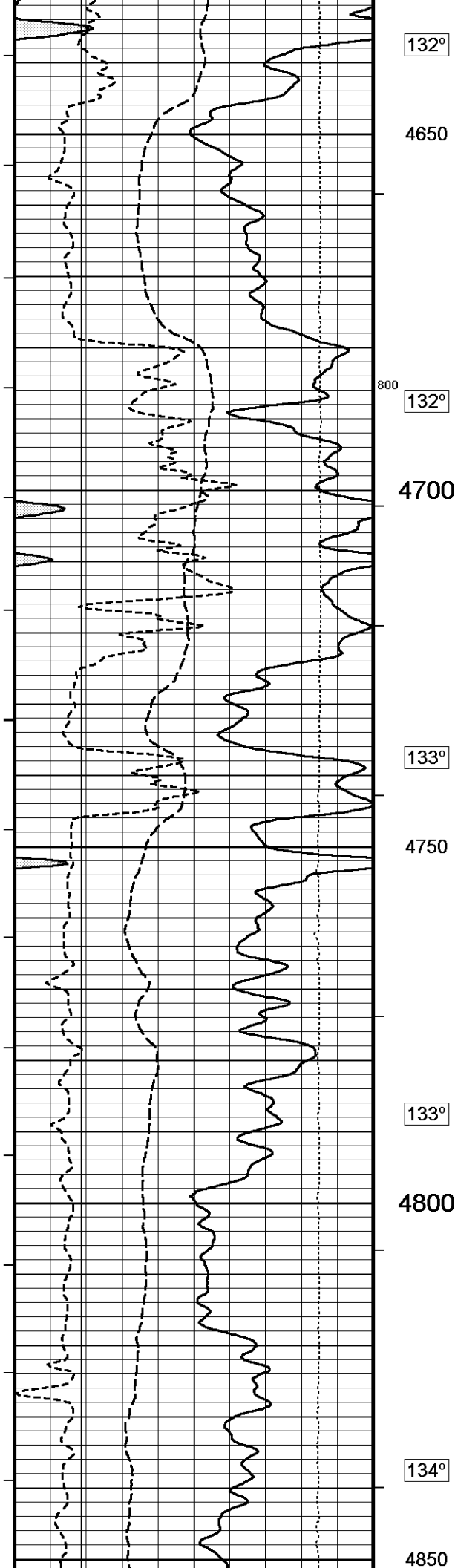


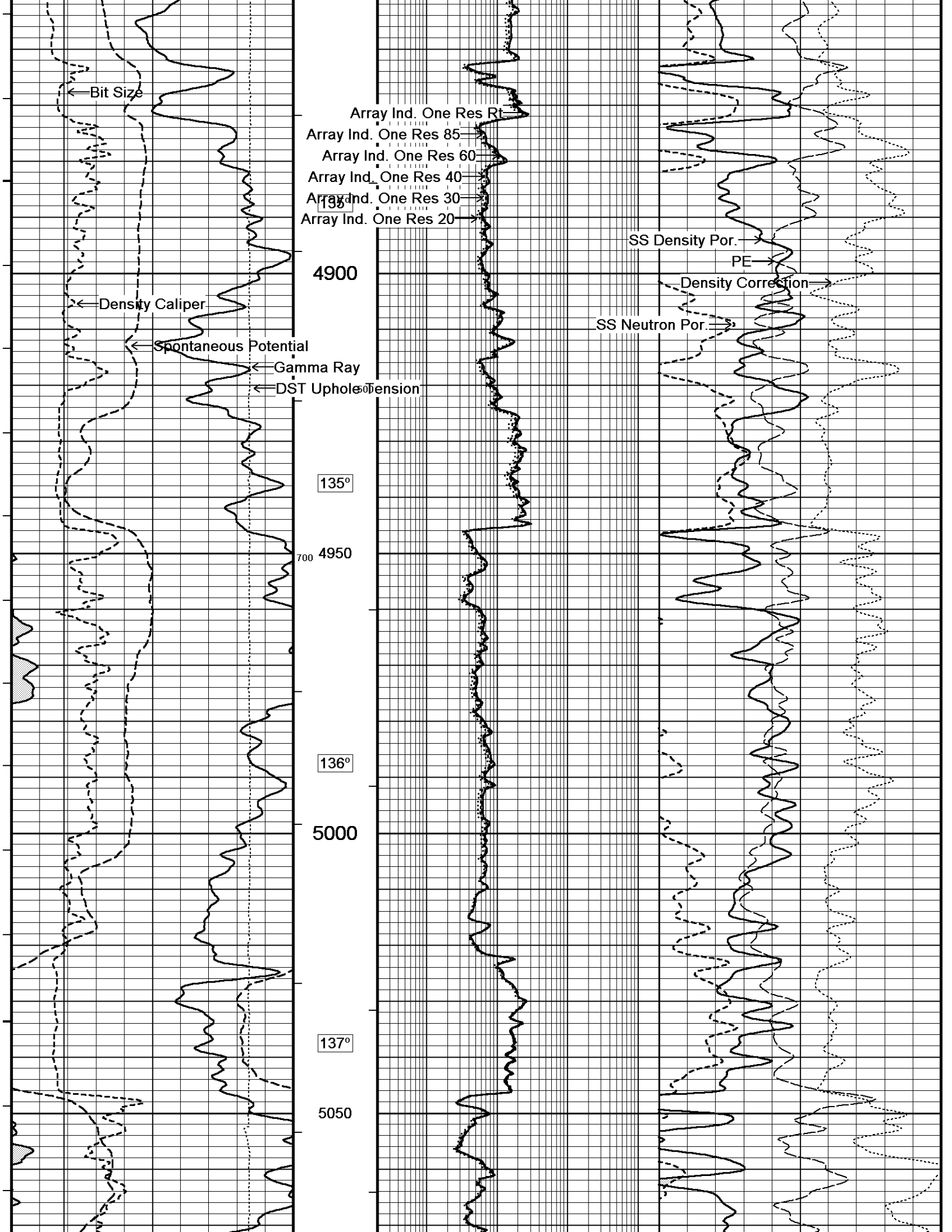


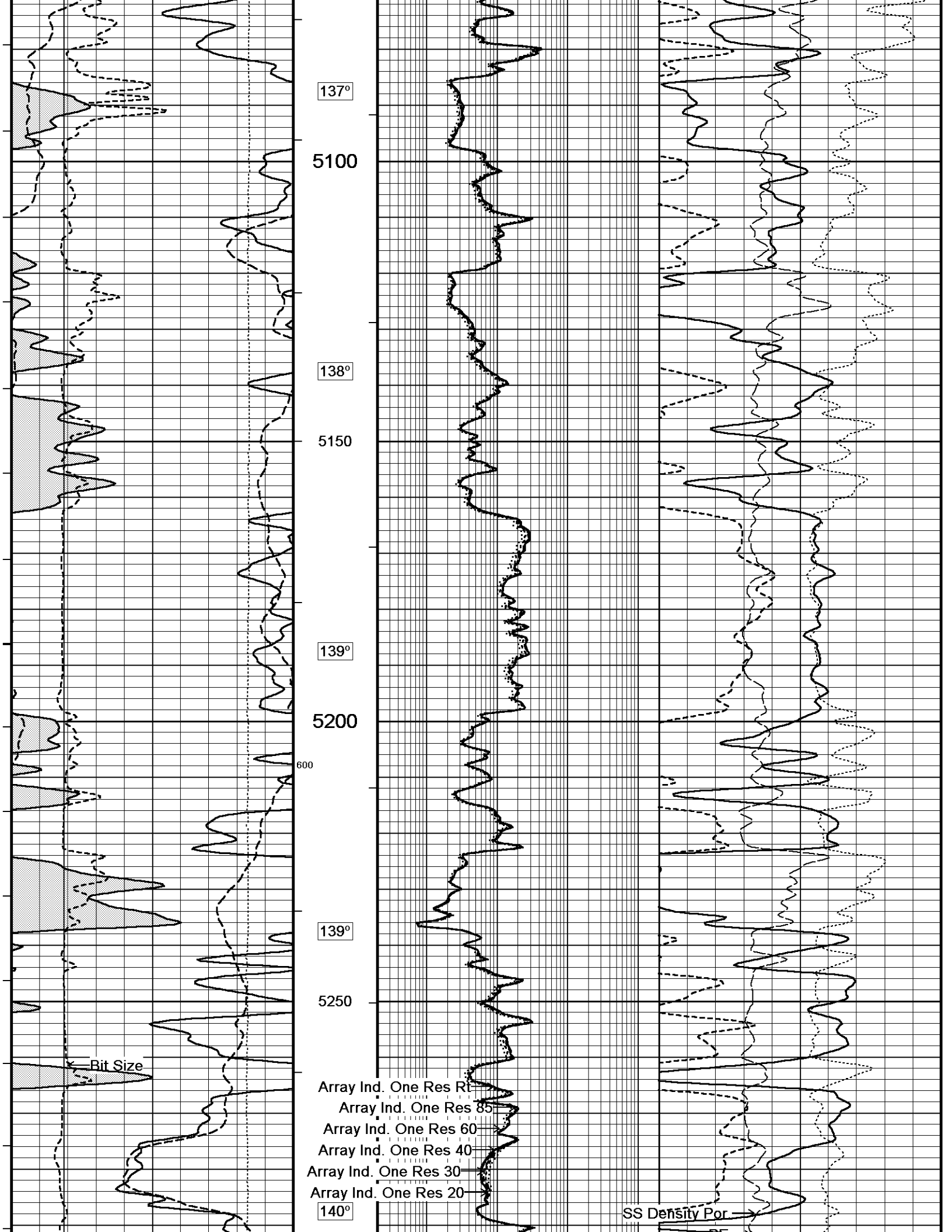


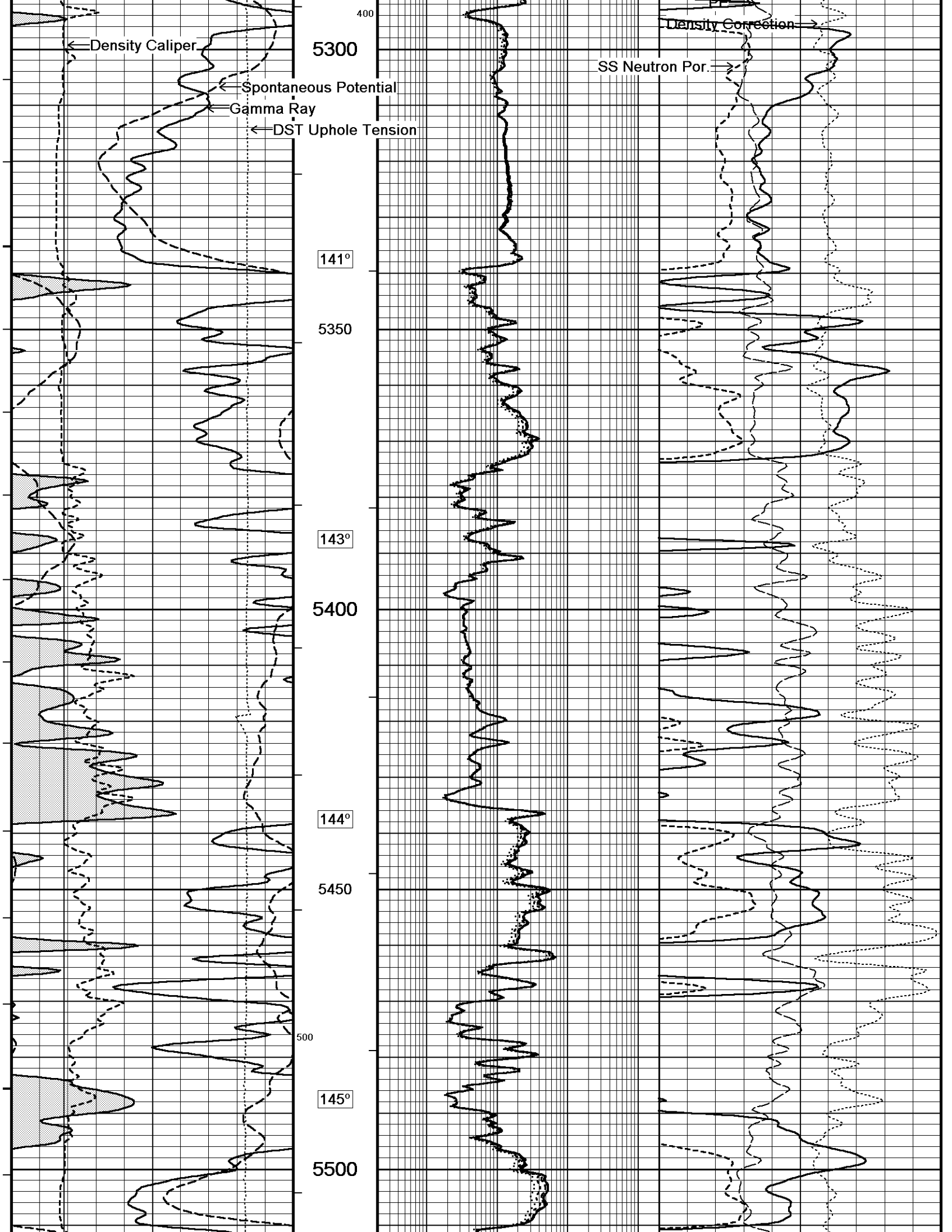


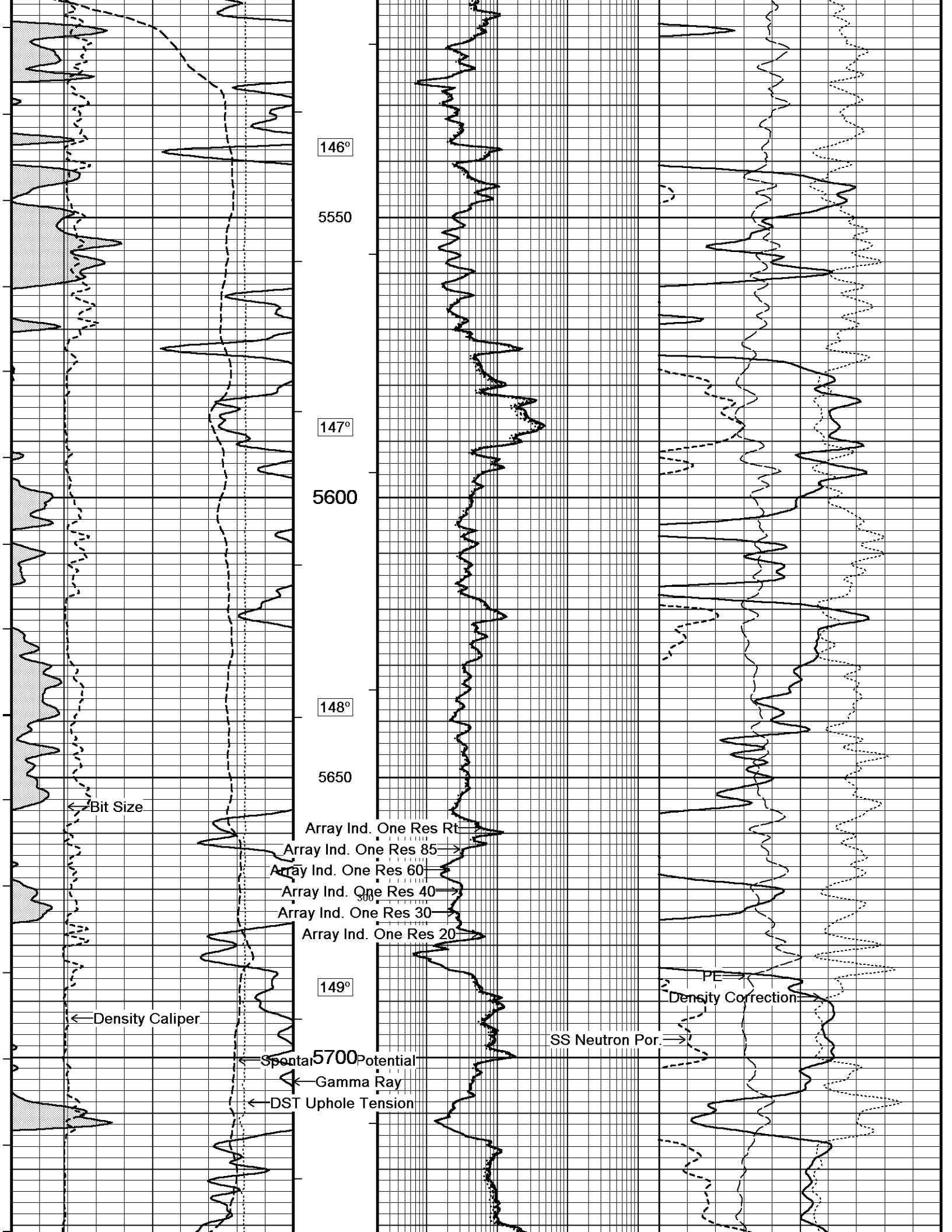


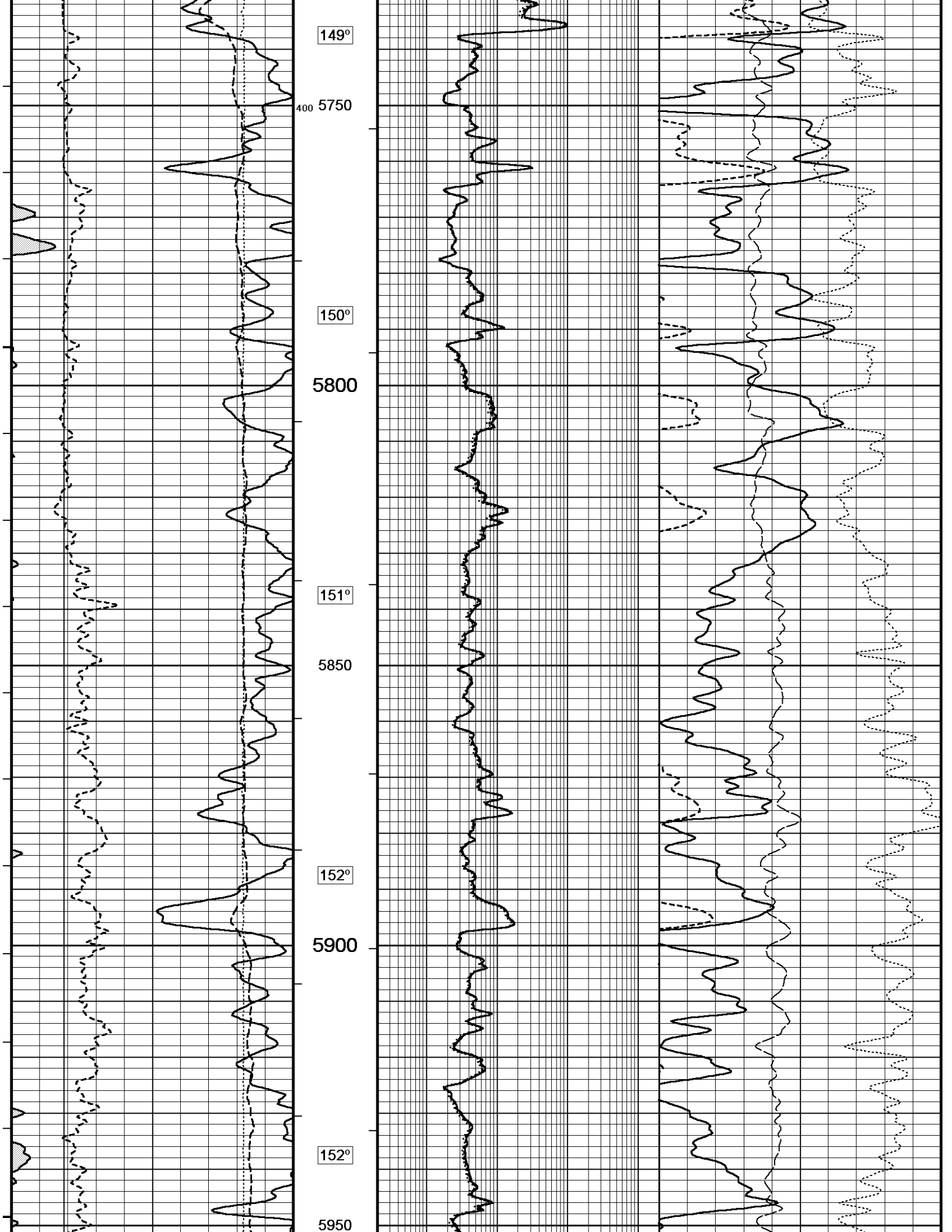


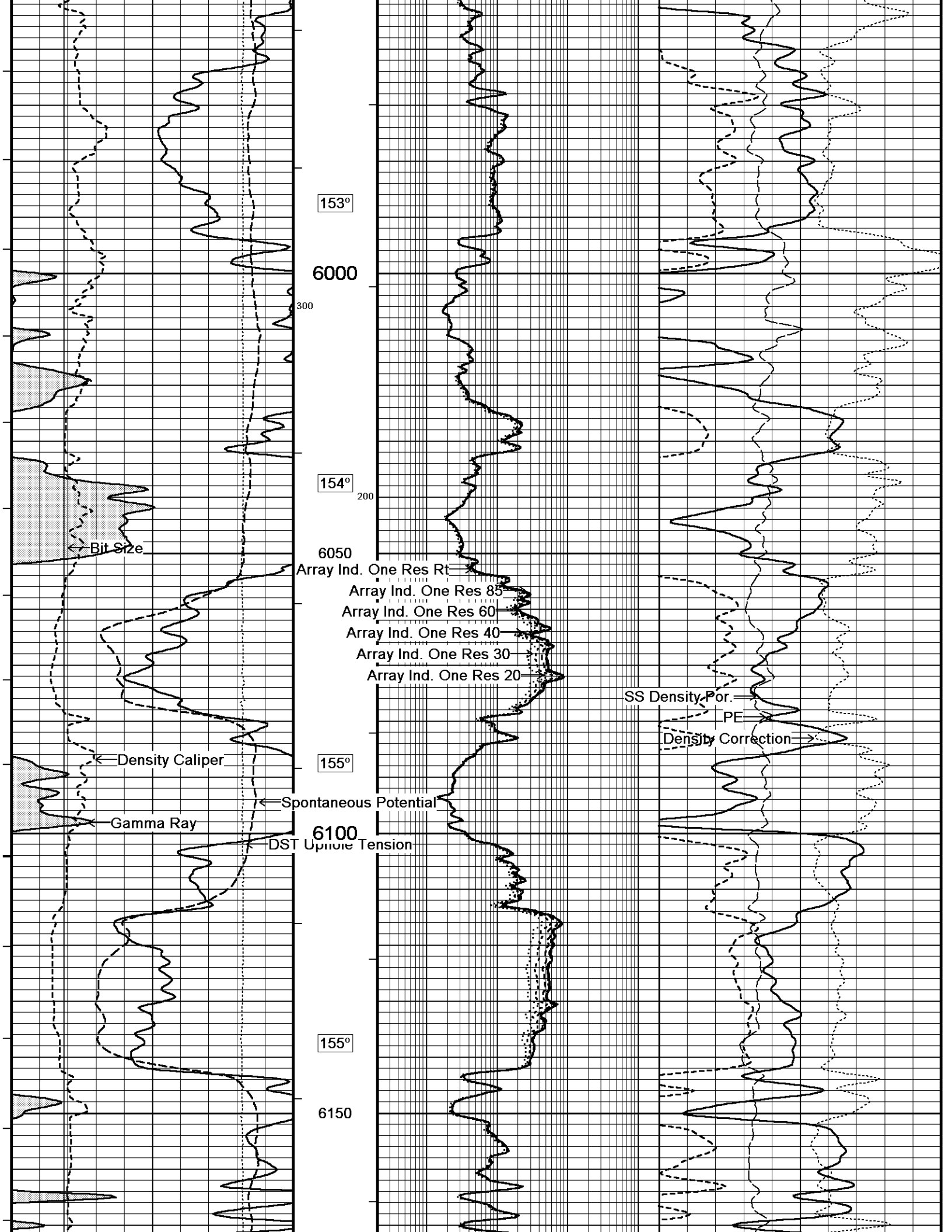


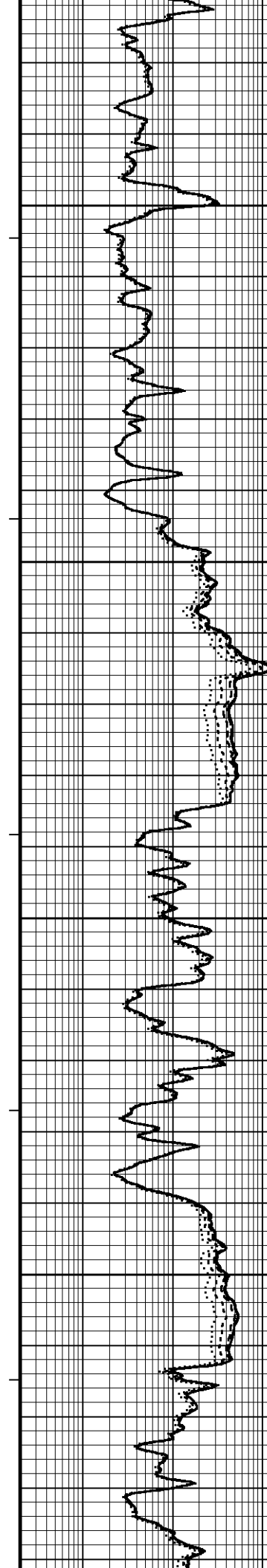
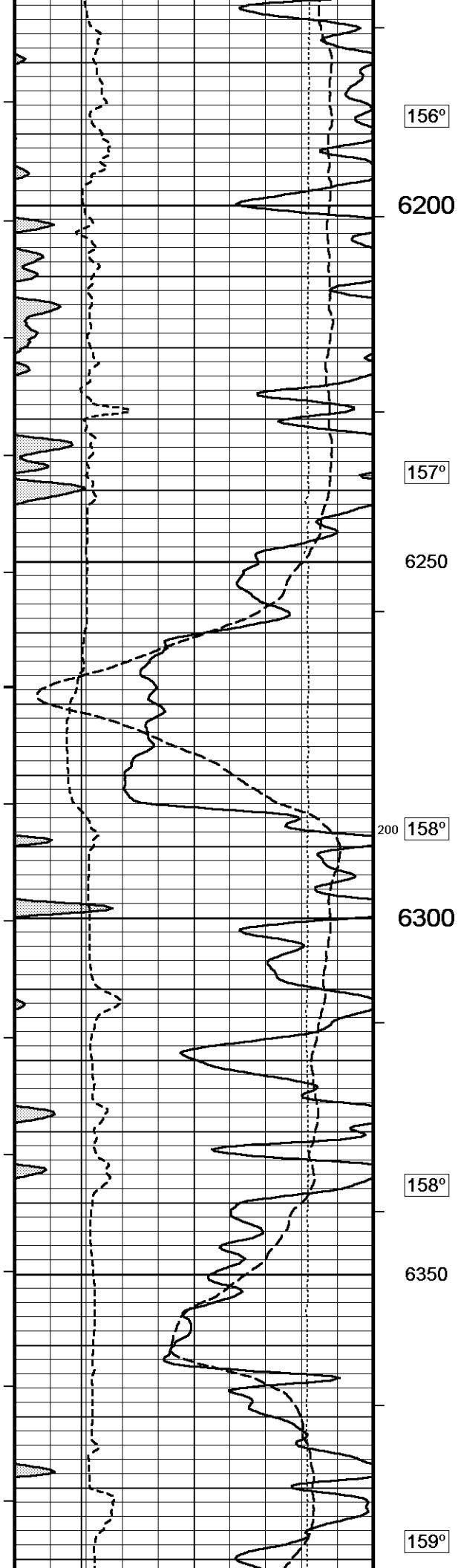


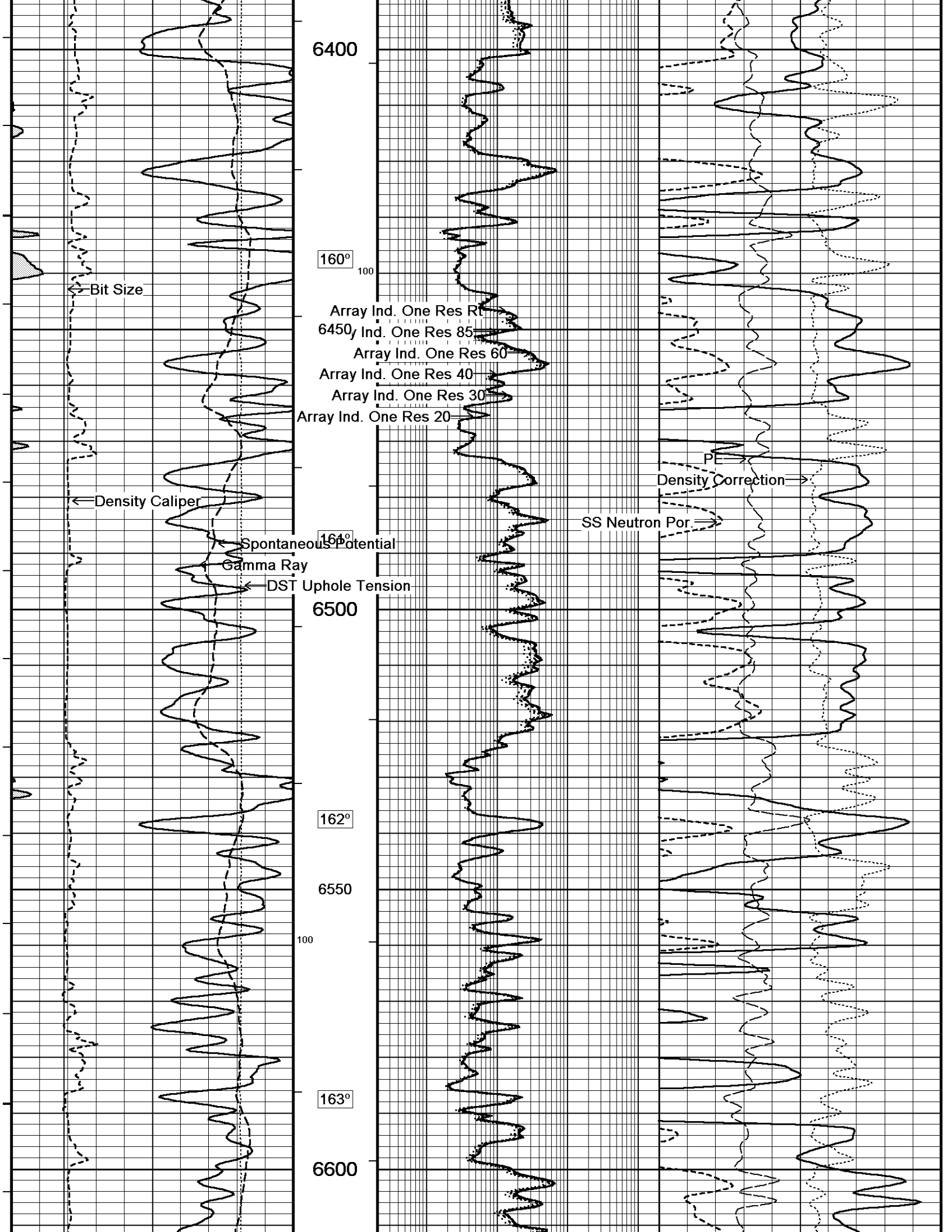


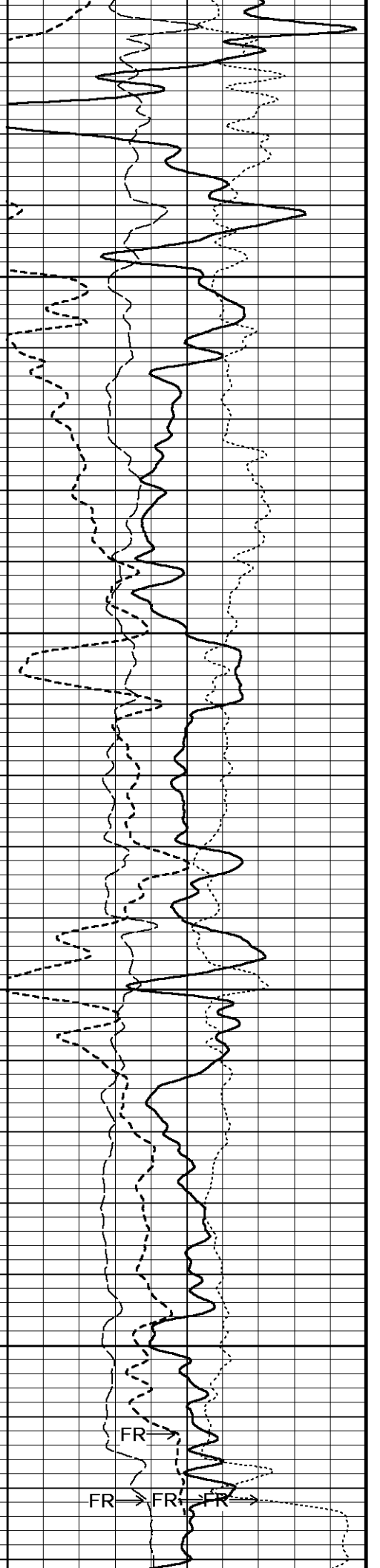
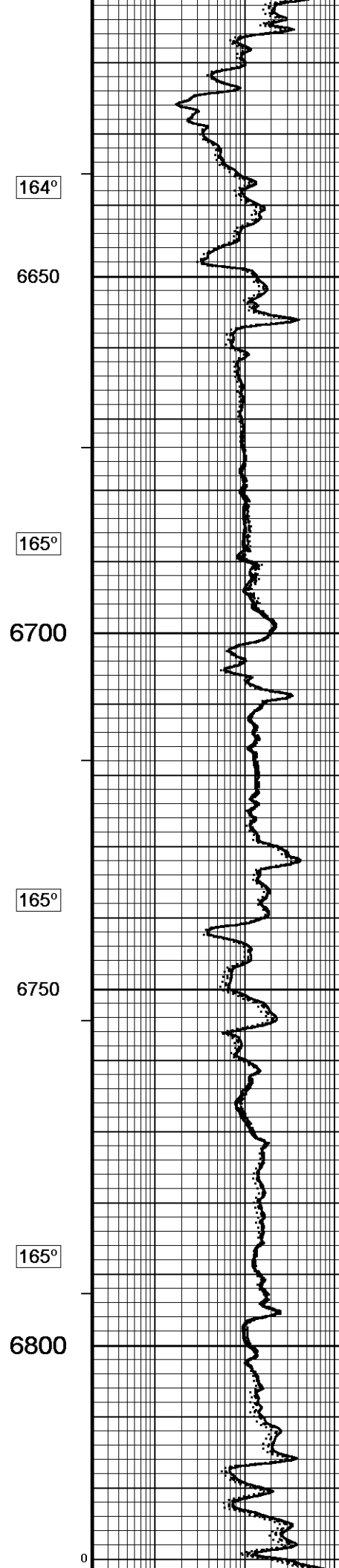
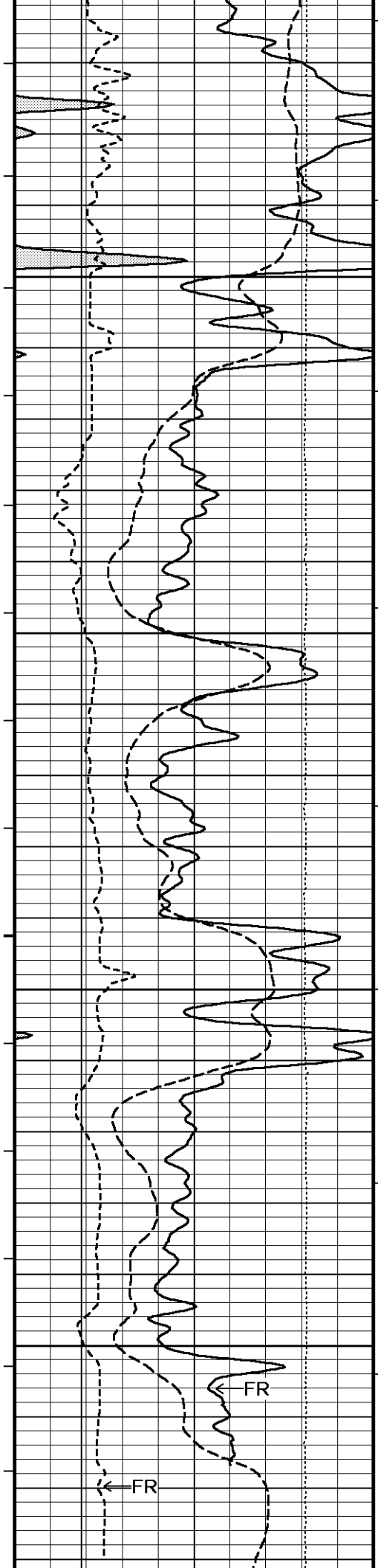


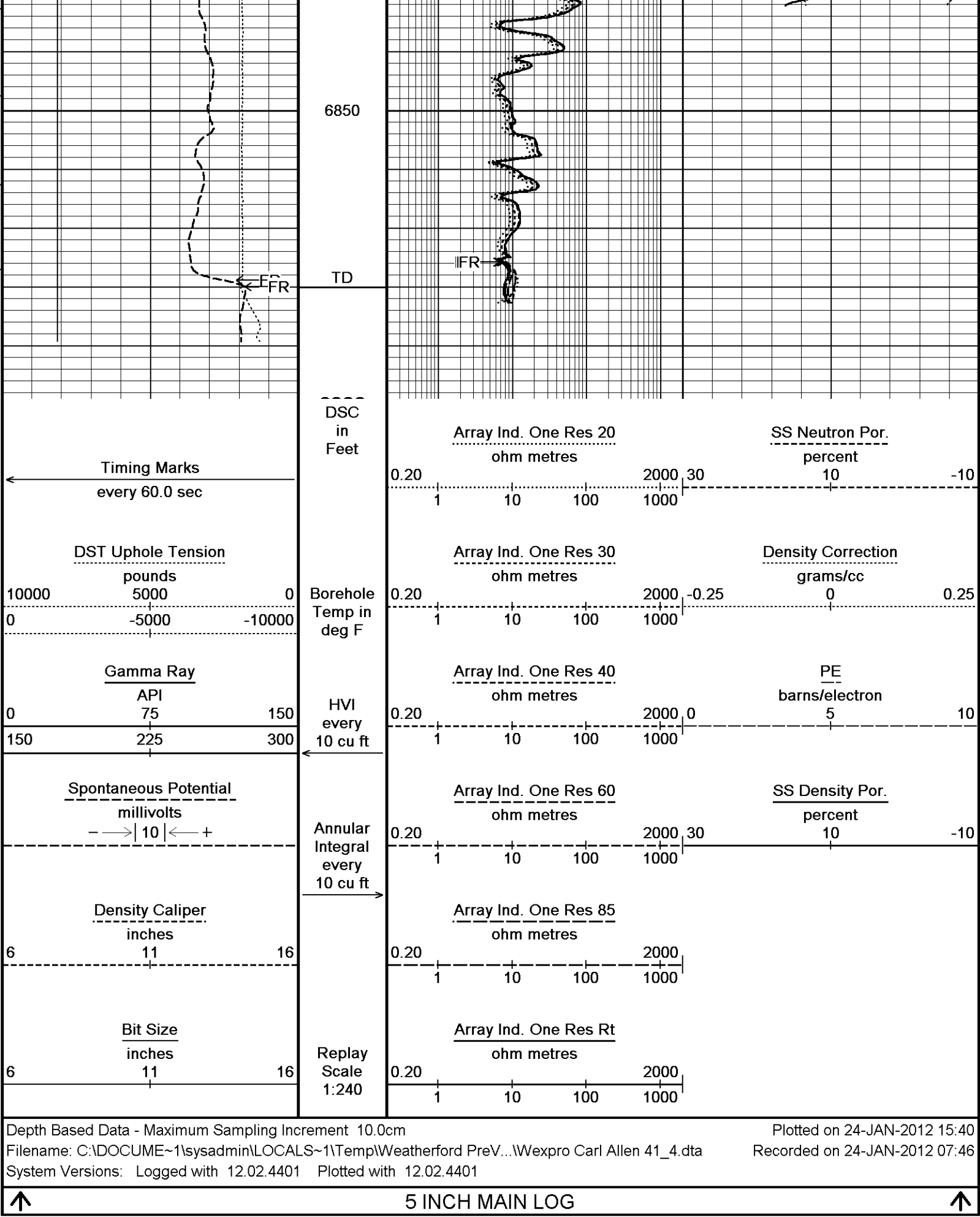












Down-hole Tension Calibration All 000

Field Calibration on 24-OCT-2010 03:34

Reading No	Measured	Calibrated (lbs)
1	15659.85	0.00
2	15734.68	370.00

General Constants All 000

Last Edited on 24-JAN-2012 05:35

General Parameters

Mud Resistivity	2.600	ohm-metres
Mud Resistivity Temperature	73.800	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 24-JAN-2012 05:20

Reading No	Measured	Calibrated (lbs)
1	17467.09	0.00
2	18929.16	660.00

Gamma Calibration MCG-D.K 424

Field Calibration on 23-JAN-2012 14:46

	Measured	Calibrated (API)
Background	71	47
Calibrator (Gross)	851	566
Calibrator (Net)	780	519

Gamma Constants MCG-D.K 424

Last Edited on 24-JAN-2012 04:33

Gamma Calibrator Number	GRCC 119	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Calibration MCG-D.K 424

Field Calibration on 03-SEP-2011 14:47

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

High Resolution Temperature Constants MCG-D.K 424

Last Edited on 03-SEP-2011 14:35

Pre-filter Length	11
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SP Calibration MCG-D.K 424

Field Calibration on 16-OCT-2011 14:34

	Measured	Calibrated (mV)
Reference 1	97.5	100.0
Reference 2	-97.8	-100.0

Neutron Calibration MDN-B.J 374

Base Calibration on 04-JAN-2012 18:16

Field Check on 23-JAN-2012 14:35

Base Calibration

	Measured	Calibrated (cps)
	Near Far	Near Far
	2870 88	3714 110
Ratio	32.435	33.764

Field Calibrator at Base

Calibrated (cps)

Ratio	2324	3462
		0.671
Field Check	Calibrated (cps)	
	2279	3426
Ratio	0.665	

Neutron Constants MDN-B.J 374			Last Edited on 24-JAN-2012 05:02		
Neutron Source Id	P31115B				
Neutron Jig Number	NJ5529				
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				
Salinity Correction	Not Applied				

FE Calibration MFE-B.A 248			Base Calibration on 04-JAN-2012 13:45	
			Field Check on 23-JAN-2012 13:26	
Base Calibration				
	Measured	Calibrated (ohm-m)		
Reference 1	0.0	0.0		
Reference 2	965.1	126.8		
Base Check		281.3		
Field Check		281.3		

FE Constants MFE-B.A 248			Last Edited on 24-JAN-2012 06:36		
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	

Induction Calibration MAI-B.J 362				Base Calibration on 02-SEP-2011 14:29	
				Field Check on 23-JAN-2012 13:20	
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
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	15.0	3873.2	
2	0.0	0.0	30.5	3605.3	
3	0.0	0.0	28.4	3069.1	
4	0.0	0.0	19.7	2079.0	
Deep	0.0	0.0	17.5	1954.3	
Medium	0.0	0.0	41.1	4076.8	
Shallow	0.0	0.0	45.5	5399.6	
Array Temperature		0.0	16.1		Deg F

Induction Model	RtAP-WBM		
Caliper for Borehole Corr.	Density Caliper		
Hole Size for Borehole Correction	N/A	inches	
Tool Centred	Yes		
Stand-off Type	N/A		
Stand-off	N/A	inches	
Number of Fins on Stand-off	N/A		
Stand-off Fin Angle	N/A	degrees	
Stand-off Fin Width	N/A	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	

High Resolution Temperature Calibration MAI-B.J 362

Field Calibration on 28-SEP-2011 08:20

	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
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Caliper Calibration MPD-B 183

Base Calibration on 06-JAN-2012 18:24

Field Calibration on 23-JAN-2012 13:42

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	18208	3.99
2	28048	5.96
3	38240	7.99
4	47744	9.86
5	58880	11.93
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.93	7.96

Photo Density Calibration MPD-B 183

Base Calibration on 06-JAN-2012 18:08

Field Check on 23-JAN-2012 13:39

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	39679	13053	52994	19128
Reference 2	18069	1723	25185	2558

Field Check at Base

651.0 764.9

Field Check

650.6 762.5

PE Calibration

Base Calibration

Measured

Calibrated

WS

WH

Ratio

Ratio

Background

118

586

Reference 1

13846

39582

0.352

0.309

Reference 2

5300

17996

0.298

0.274

Field Check at Base

118.4

585.6

Field Check

121.1

590.2

Density Constants MPD-B 183

Last Edited on 24-JAN-2012 05:02

Density Source Id

P15771B

Nylon Calibrator Number

527

Aluminium Calibrator Number

527

Density Shoe Profile

8 inch

Caliper Source for Processing

Density Caliper

PE Correction to Density

Not Applied

Mud Density

1.23

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

Dipole Constants and Gains MRD-A.A 126

Logging Mode

Standard

Semblance Parameters

Window Start

1.00

milliseconds

Window Width

15

milliseconds

Discriminator Levels

M1C Discriminator

0.1

mV

M2C Discriminator

0.1

mV

M3C Discriminator

0.1

mV

M4C Discriminator

0.1

mV

Monopole Receiver Gains

MR1A 1.000000 MR1B 1.000000 MR1C 1.000000 MR1D 1.000000

MR2A 1.000000 MR2B 1.000000 MR2C 1.000000 MR2D 1.000000

MR3A 1.000000 MR3B 1.000000 MR3C 1.000000 MR3D 1.000000

MR4A 1.000000 MR4B 1.000000 MR4C 1.000000 MR4D 1.000000

MR5A 1.000000 MR5B 1.000000 MR5C 1.000000 MR5D 1.000000

MR6A 1.000000 MR6B 1.000000 MR6C 1.000000 MR6D 1.000000

MR7A 1.000000 MR7B 1.000000 MR7C 1.000000 MR7D 1.000000

MR8A 1.000000 MR8B 1.000000 MR8C 1.000000 MR8D 1.000000

DOWNHOLE EQUIPMENT

C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreView\0\Wexpro Carl Allen 41_4.dta

SHA-J.A Compact Swivel Head Adaptor

SHA-J.A 225 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

Compact Comms Gamma

MCG-D.K 424 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Neutron

MDN-B.J 374 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper

MPD-B 183 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

MIS-D.A Compact Inline Bowspring sub

MIS-D.A 437 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint

SKJ-D.A 89 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-B Compact Inline Standoff sub

MIS-B 200 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint

SKJ-D.A 112 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Dipole Memory

MDM-A.A 126 LG: 4.48 ft WT: 39.7 lb OD: 2.24 in

Compact Dipole Receiver

MRD-A.A 126 LG: 8.89 ft WT: 88.2 lb OD: 2.24 in

Compact Dipole Transmitter

MTD-A.A 126 LG: 12.63 ft WT: 110.2 lb OD: 2.24 in

Compact Focussed Electric

MFE-B.A 248 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

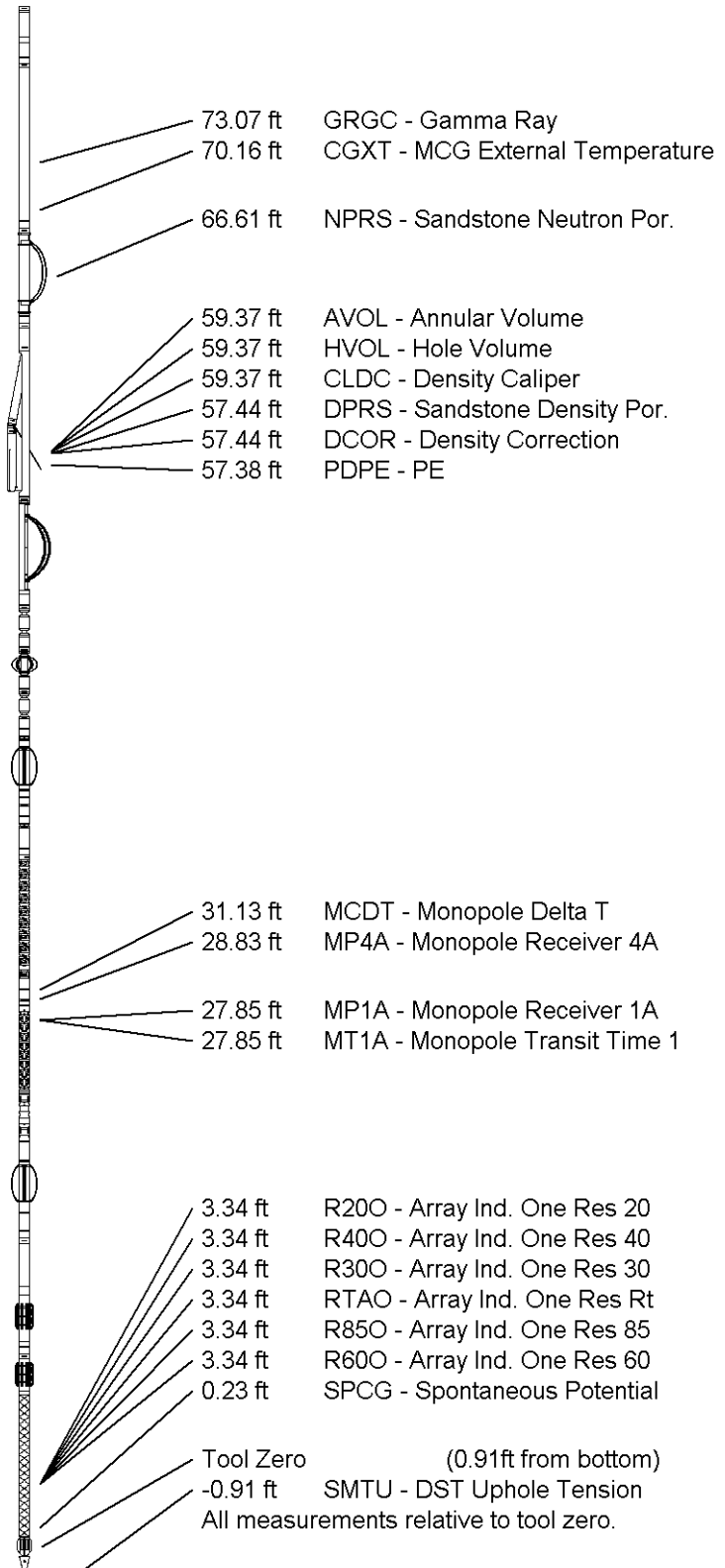
Compact Induction

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

Compact Hole Finder

HFS 1 LG: 0.78 ft WT: 2.2 lb OD: 2.24 in

Total Length: 81.43 ft Weight: 661.4 lb



COMPANY

WEXPRO COMPANY

WELL

CARL ALLEN 41

FIELD

POWDER WASH

PROVINCE/COUNTY

MOFFAT

COUNTRY/STATE

USA/COLORADO

Elevation Kelly Bushing	6689.00	feet	First Reading	6877.00	feet
Elevation Drill Floor	6689.00	feet	Depth Driller	9520.00	feet
Elevation Ground Level	6660.00	feet	Depth Logger	6880.00	feet



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