



**Weatherford**

ARRAY INDUCTION - RTAP  
SHALLOW FOCUSED  
ELECTRIC LOG

COMPANY

BILL BARRETT CORPORATION

WELL

GGU SWANSON 32C-29-691

FIELD

GIBSON GULCH

PROVINCE/COUNTY

GARFIELD

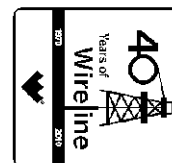
COUNTRY/STATE

U.S.A. / COLORADO

LOCATION

SHL: 1227' FNL & 1327' FEL

BHL: 1800' FNL & 1990' FEL



SEC

TWP

6S

RGE

91W

API Number

05-045-19797

Other Services  
MPD/MDN

Permit Number

Permanent Datum G.L., Elevation 6104 feet

Log Measured From KB @ 23 FT above Permanent Datum

Drilling Measured From K.B.

Elevations:

feet

KB

DF

GL

6127.00  
6126.00  
6104.00

Date

18-FEB-2011

Run Number

ONE

Depth Driller

7458.00 feet

Depth Logger

7458.00 feet

First Reading

7455.00

Last Reading

200.00

Casing Driller

766.00 feet

Casing Logger

766.00 feet

Bit Size

7.880 inches

Hole Fluid Type

LSND

Density / Viscosity

11.00 lb/USg

PH / Fluid Loss

10.90

Sample Source

FLOW LINE

Rm @ Measured Temp

3.10 @ 70.0 ohm-m

Rmf @ Measured Temp

2.48 @ 70.0 ohm-m

Rmc @ Measured Temp

3.72 @ 70.0 ohm-m

Source Rmf / Rmc

CALC

Rm @ BHT

1.26 @ 176.0 ohm-m

Time Since Circulation

6 HOURS

Max Recorded Temp

176.00 deg F

Equipment Name

COMPACT

Equipment / Base

13173 GD JCT

Recorded By

J.GARCIA

Witnessed By

C.CROW

BOREHOLE RECORD

Last Edited: 18-FEB-2011 10:34

Bit Size  
inches

Depth From  
feet

Depth To  
feet

8.750

766.00

5495.00

7.880

5495.00

7458.00

CASING RECORD

Type

Size  
inches

Depth From  
feet

Shoe Depth  
feet

Weight  
pounds/ft

SURFACE

9.625

0.00

766.00

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 5495 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2970 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2230 CU.FT.

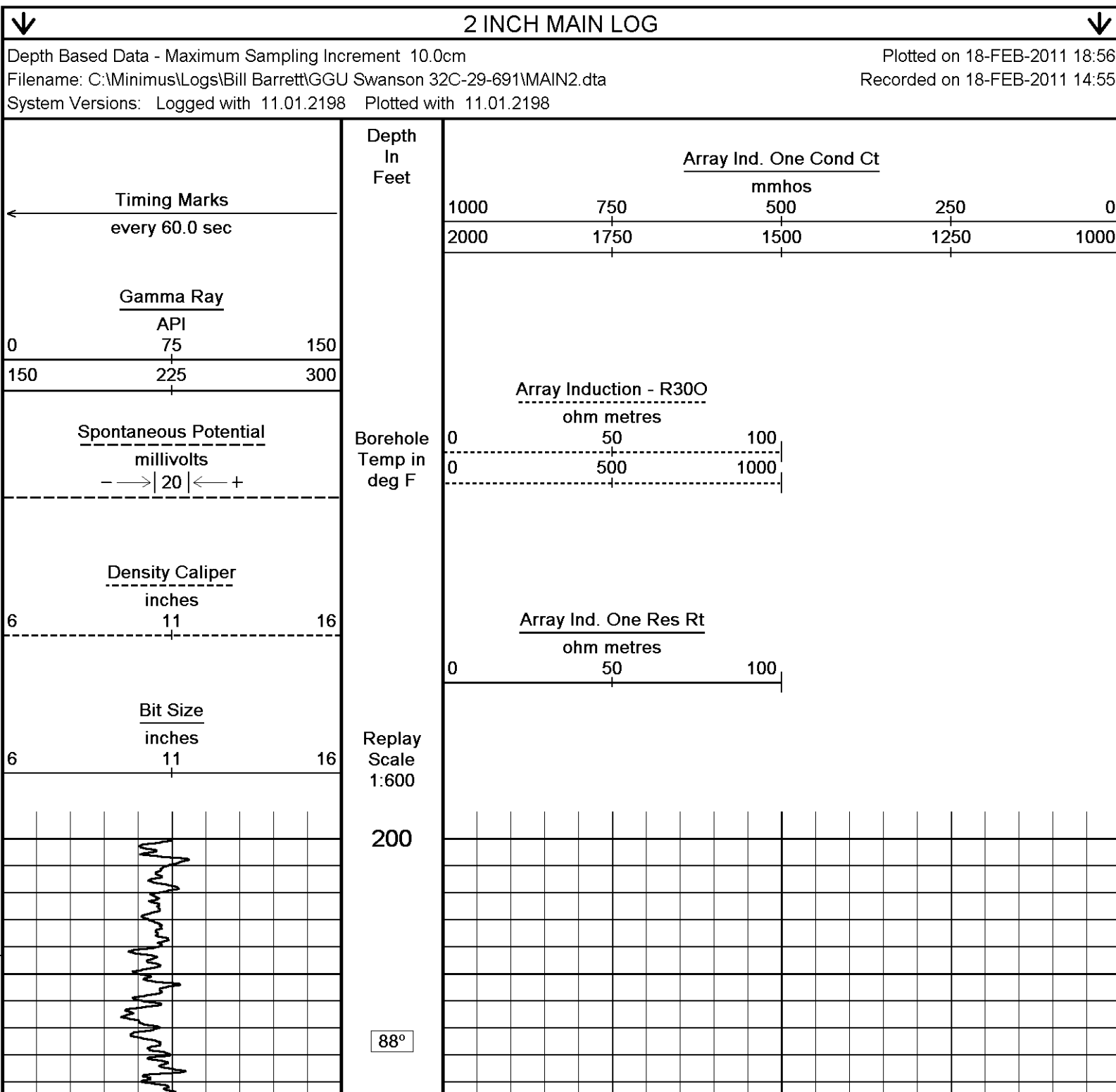
ENGINEER(S): J.GARCIA

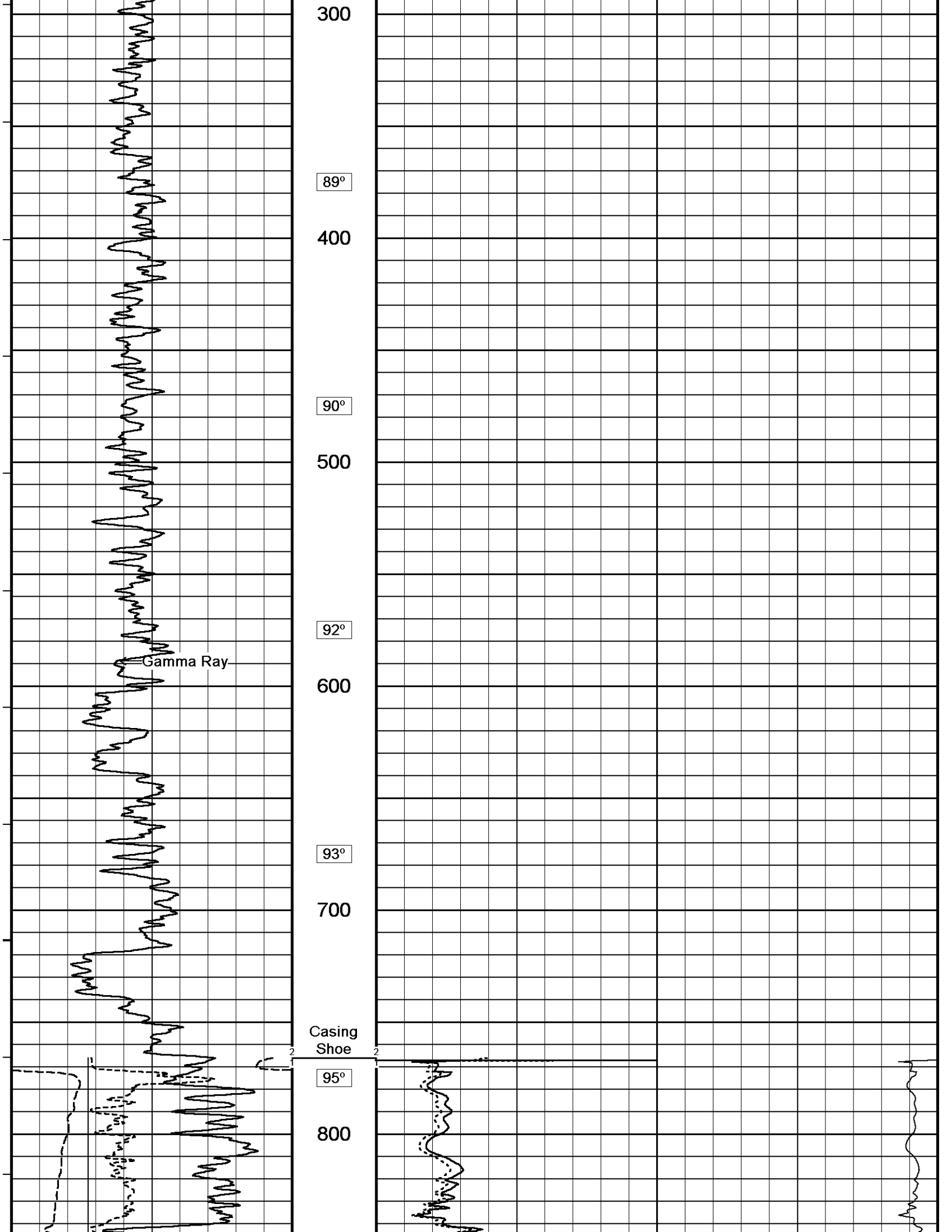
OPERATOR: R.SYERS, D.DALEY

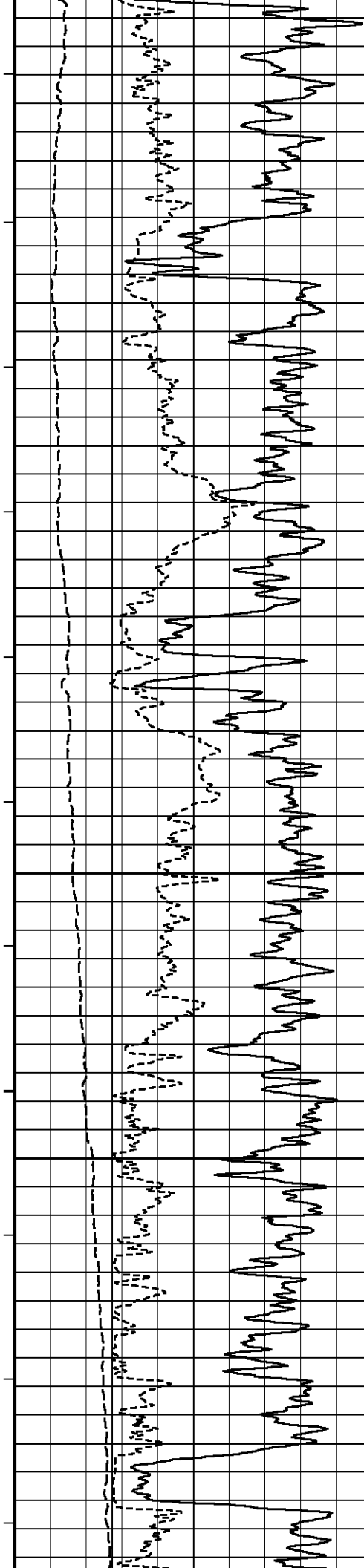
SERVICE ORDER: # 3524849

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.







96°

900

97°

1000

98°

1100

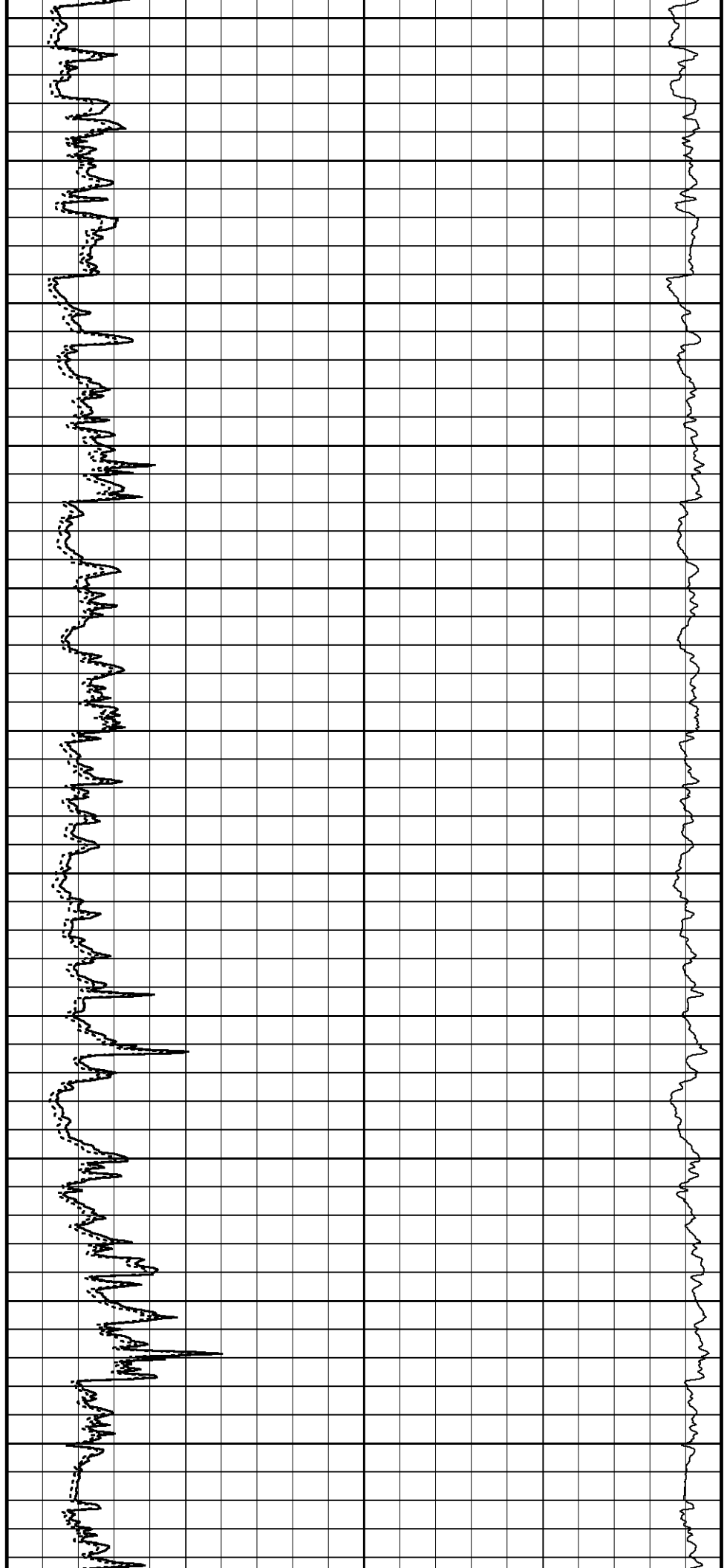
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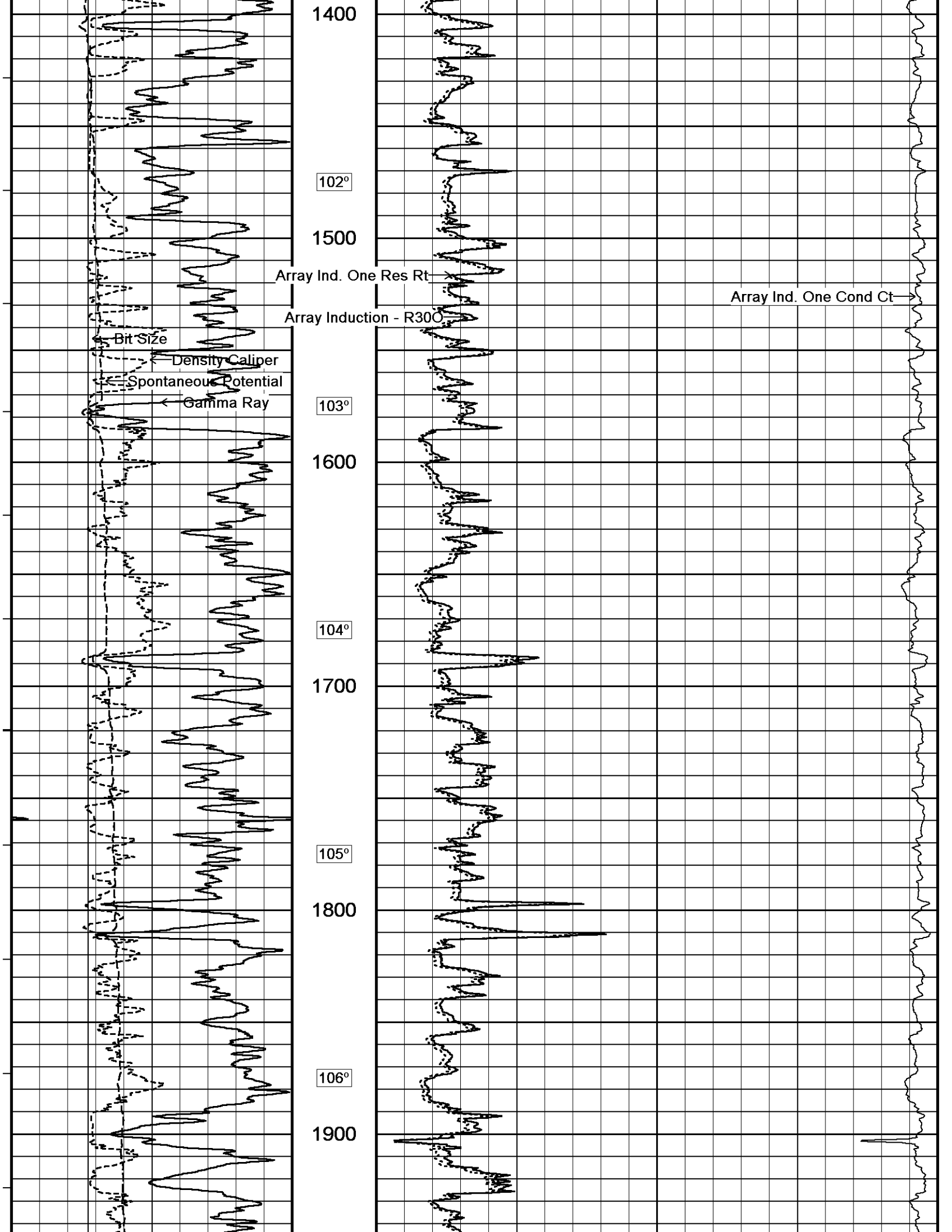
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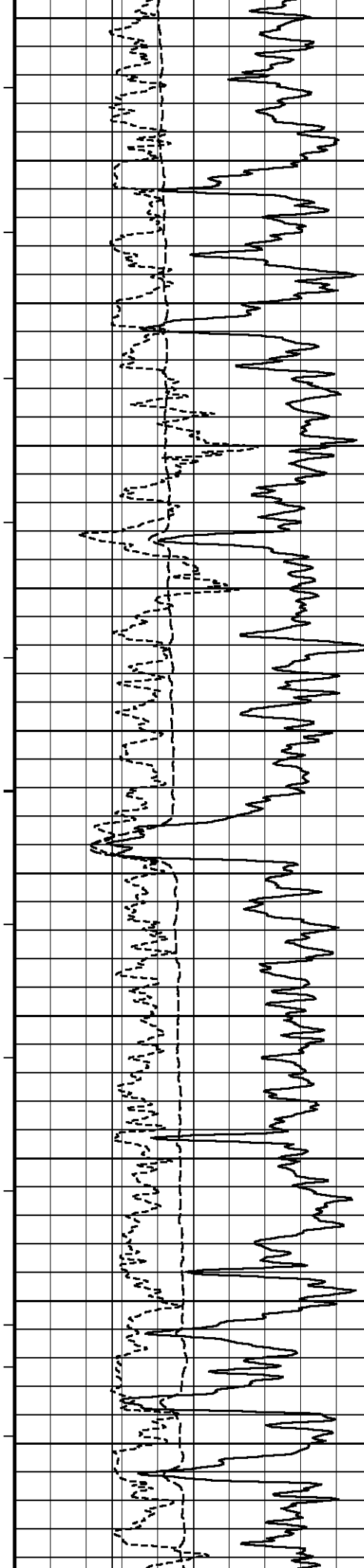
100°

1300

101°







107°

2000

108°

2100

109°

2200

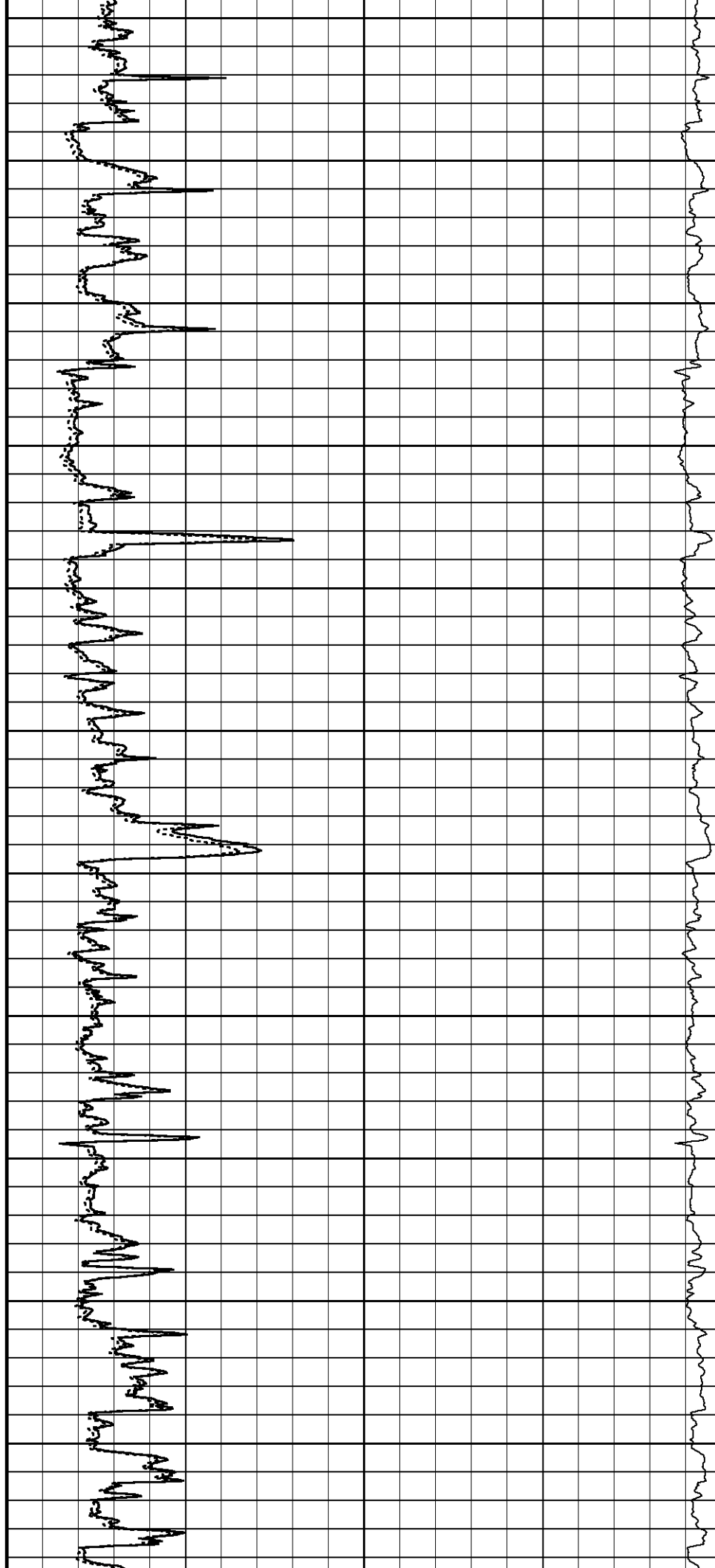
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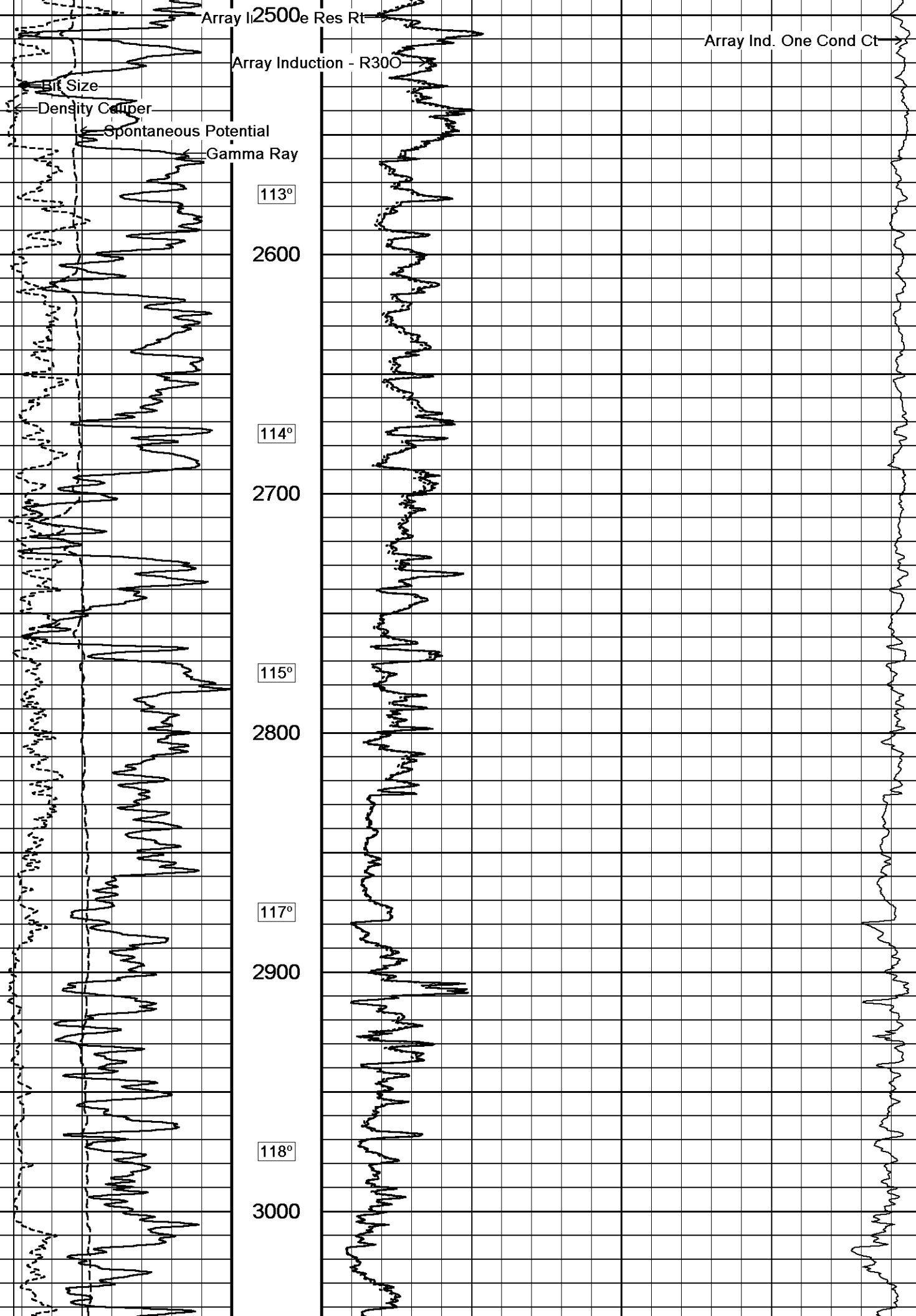
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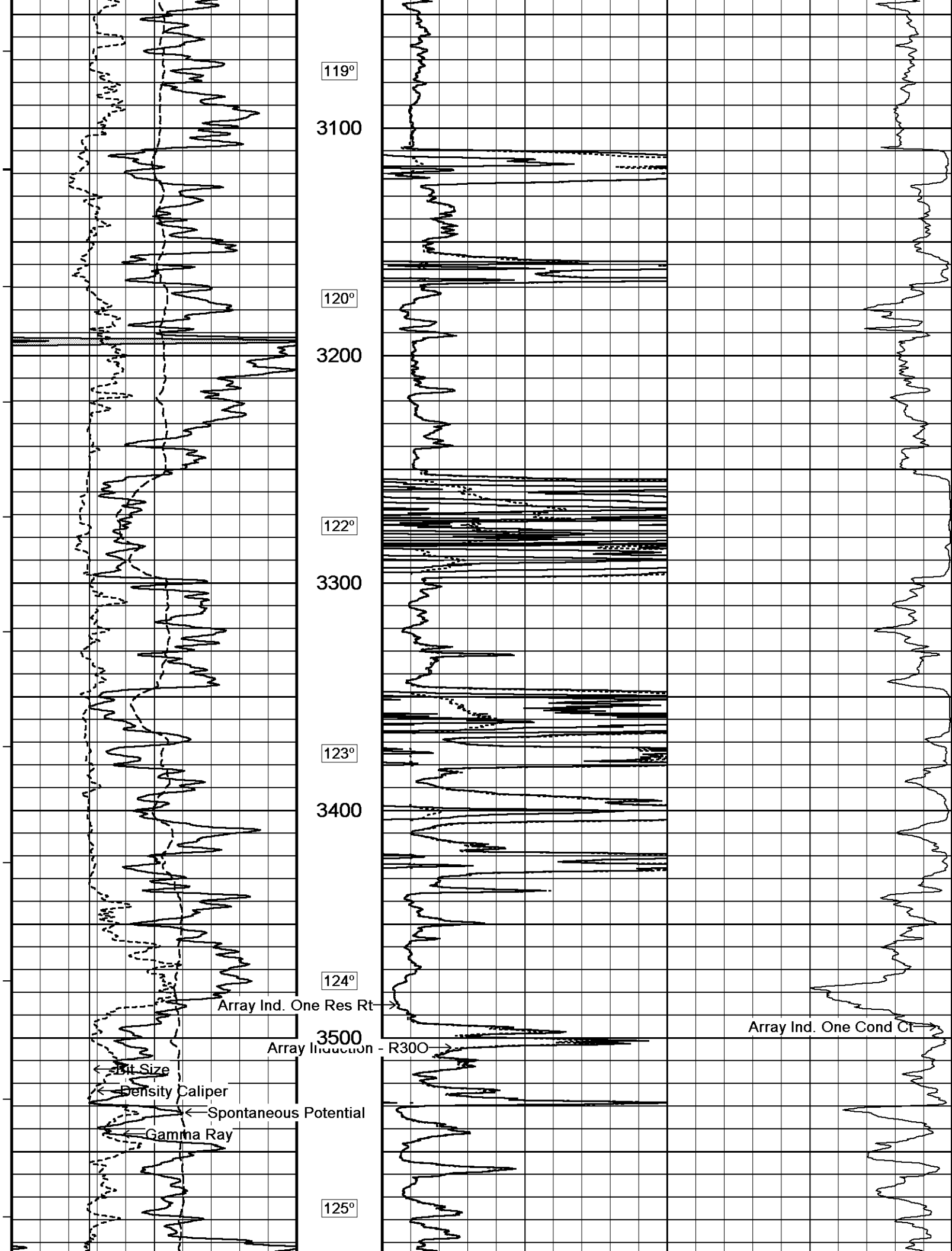
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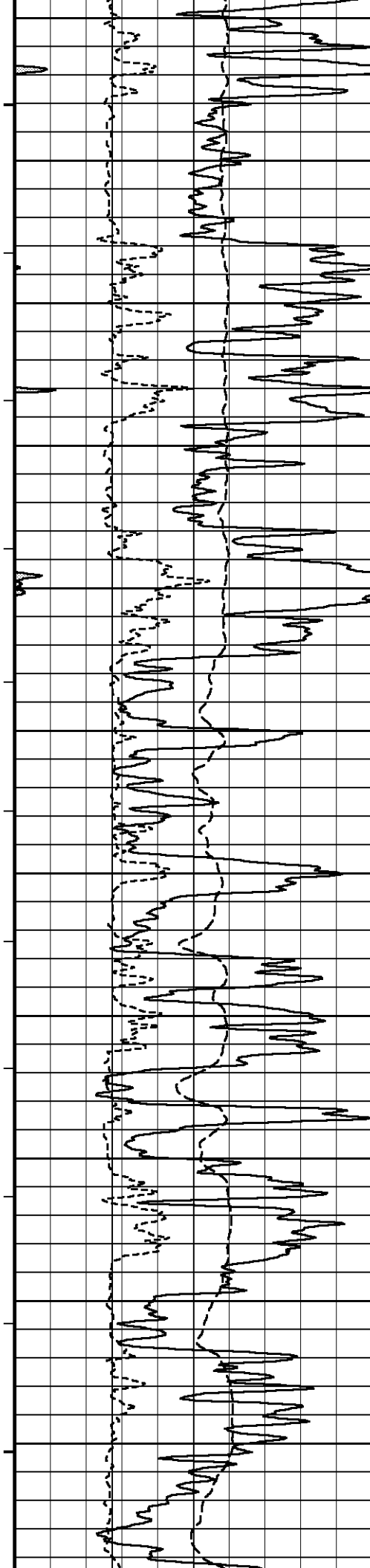
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3600

126°

3700

127°

3800

128°

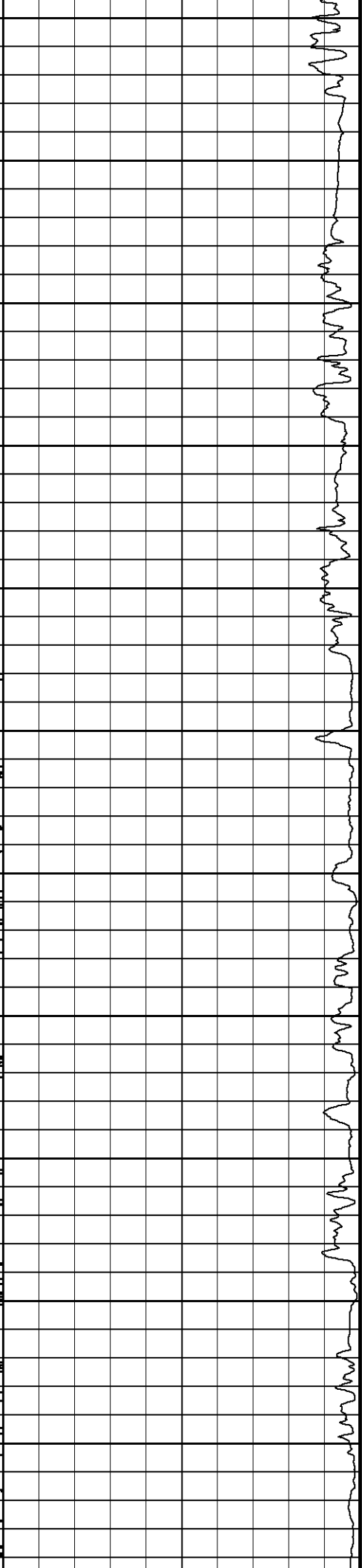
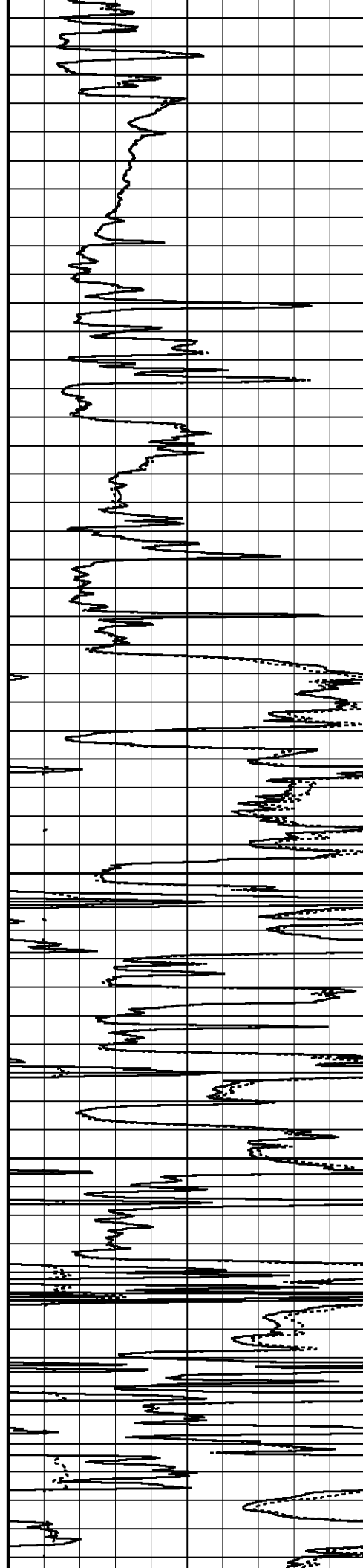
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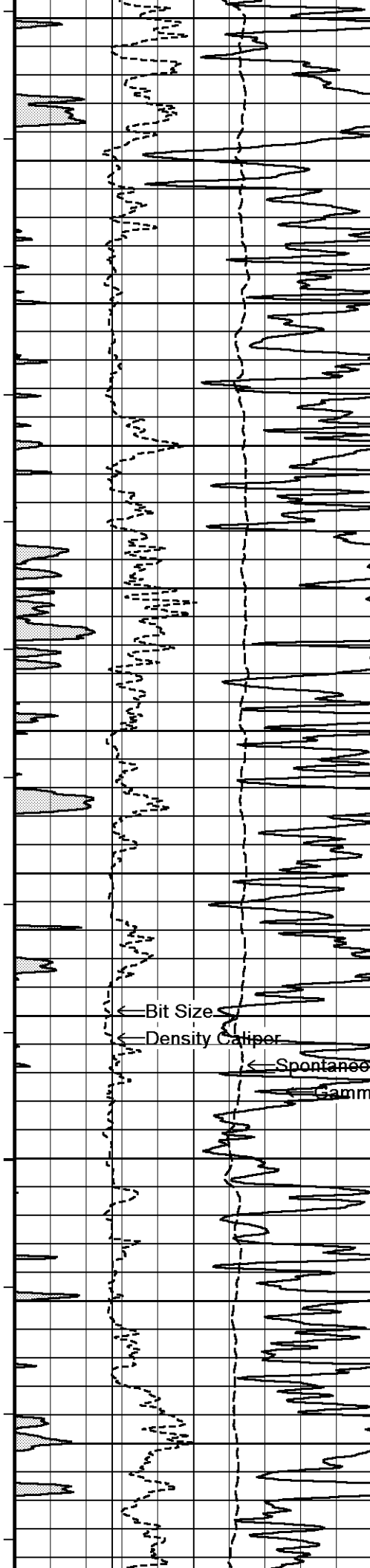
129°

4000

130°

4100





131°

4200

132°

4300

134°

4400

134°

4500

136°

4600

137°

Array Ind. One Res Rt

Array Induction - R300

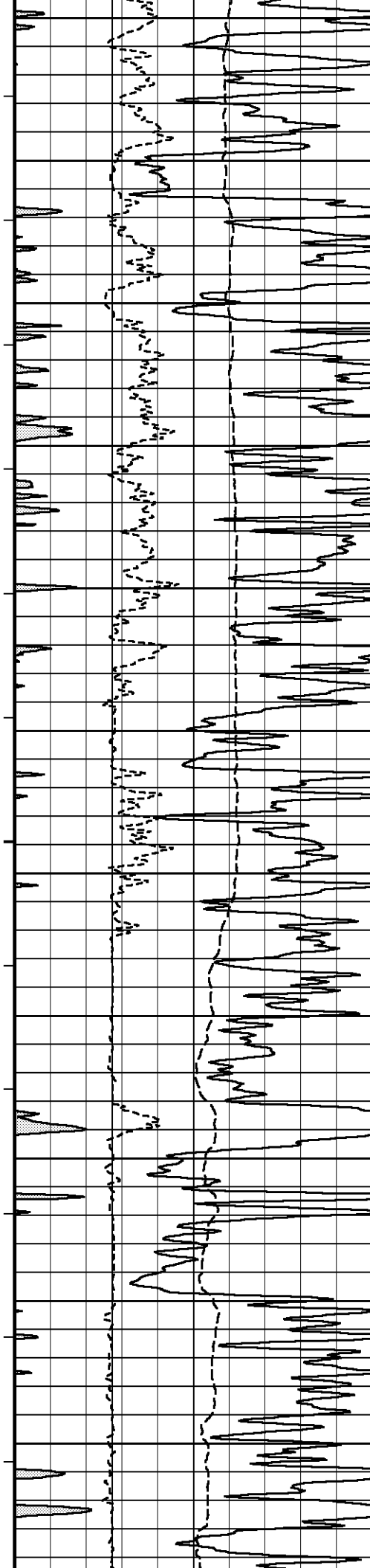
Array Ind. One Cond Ct

← Bit Size

← Density Caliper

← Spontaneous Potential

← Gamma Ray



4700

138°

4800

139°

4900

140°

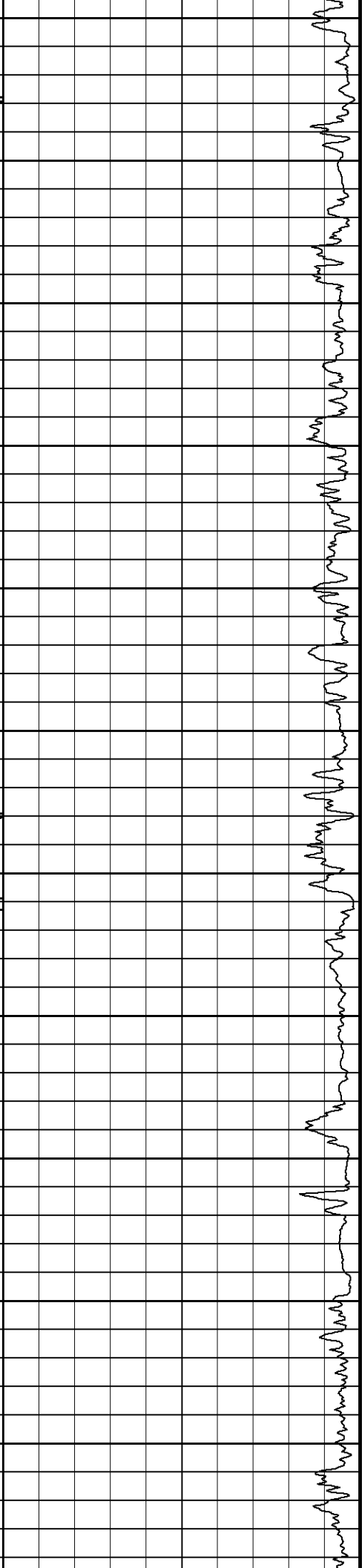
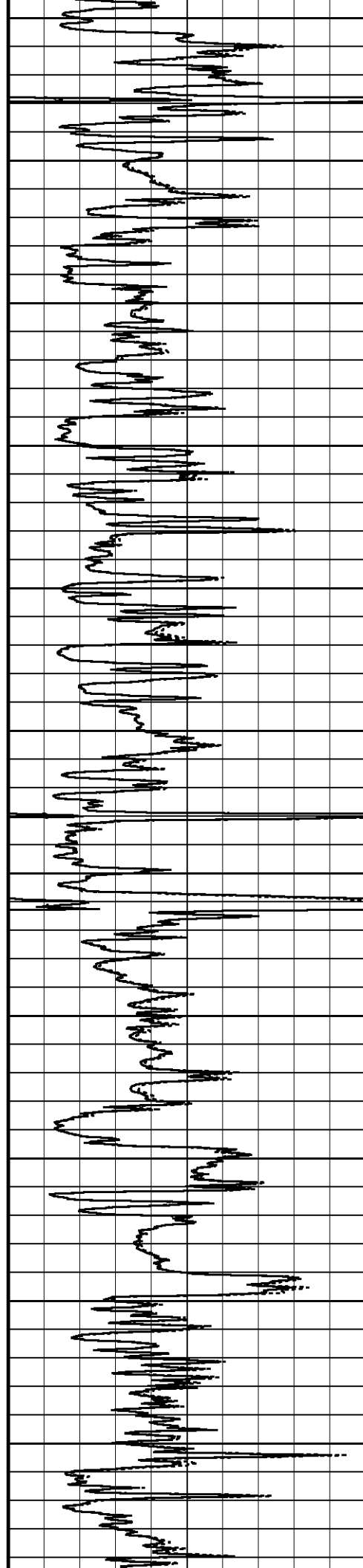
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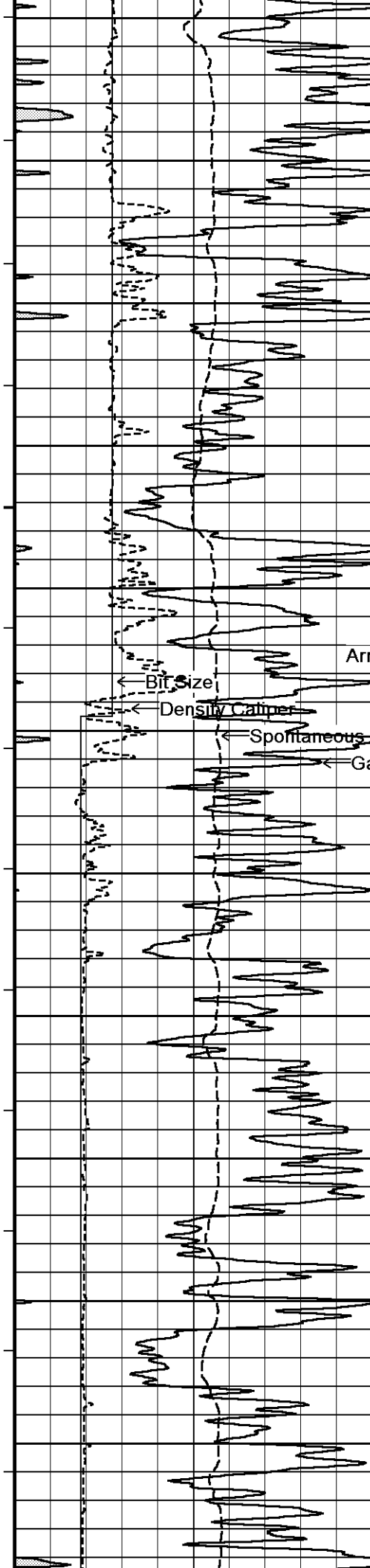
141°

5100

142°

5200





143°

5300

145°

5400

Array Ind. One Res. Pt

Array Ind. One Cond Ct

Bit Size

Density Caliper

Spontaneous Pot

Gamma Ray

5500

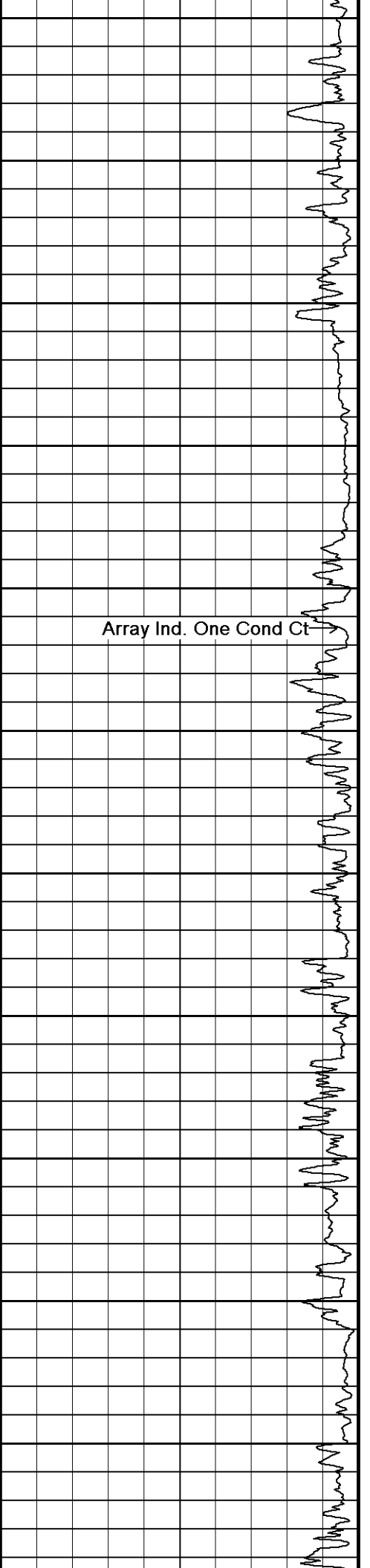
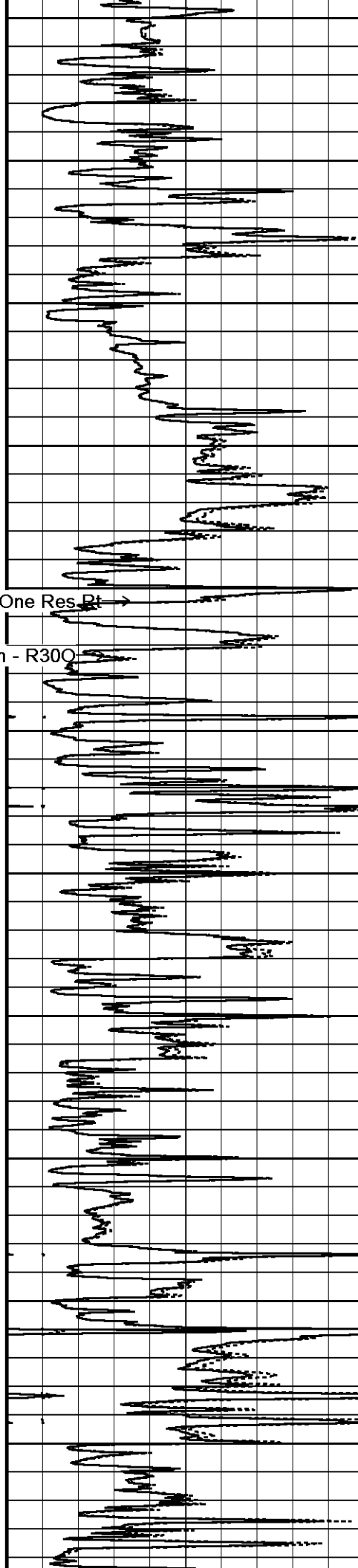
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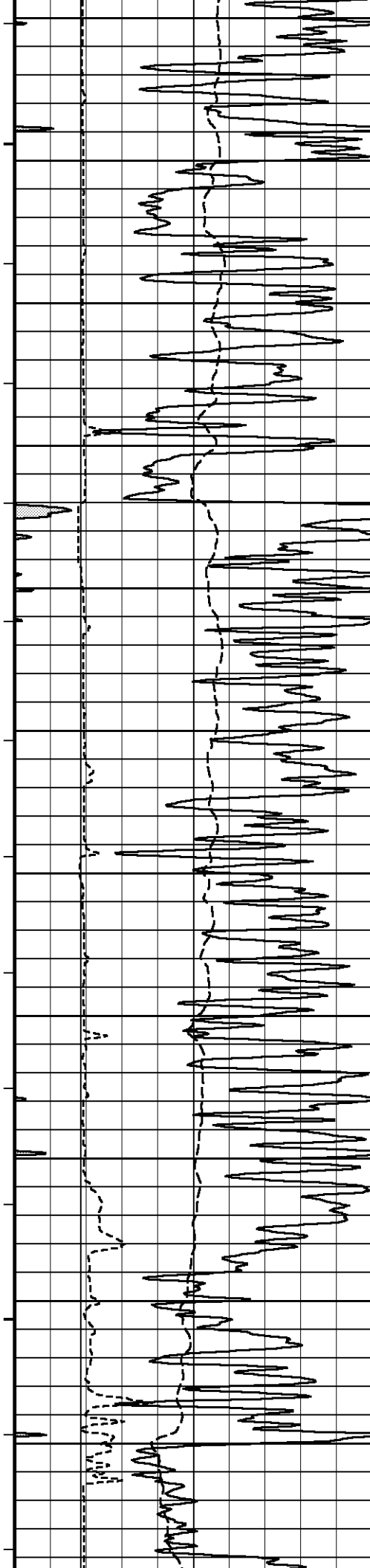
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149°

5700

150°





5800

151°

5900

153°

6000

154°

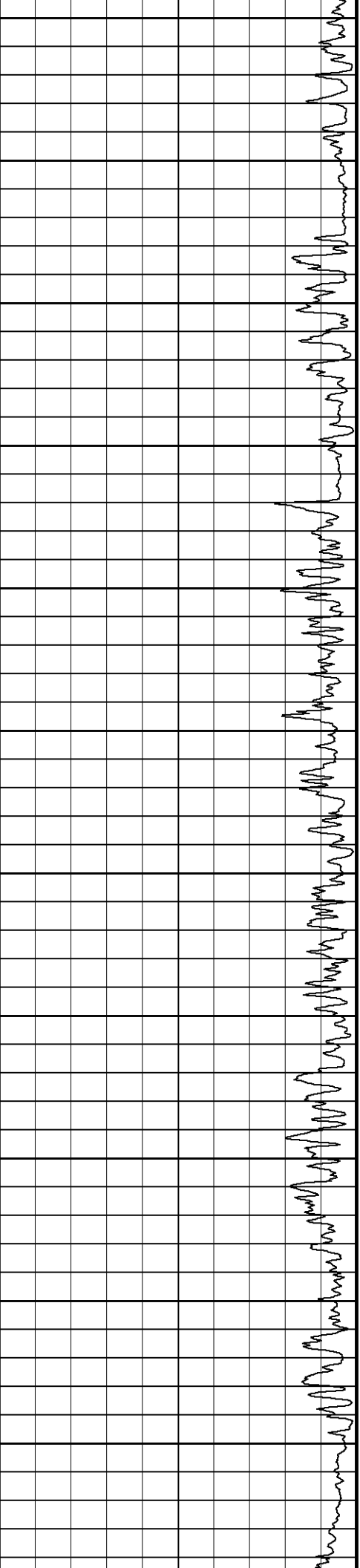
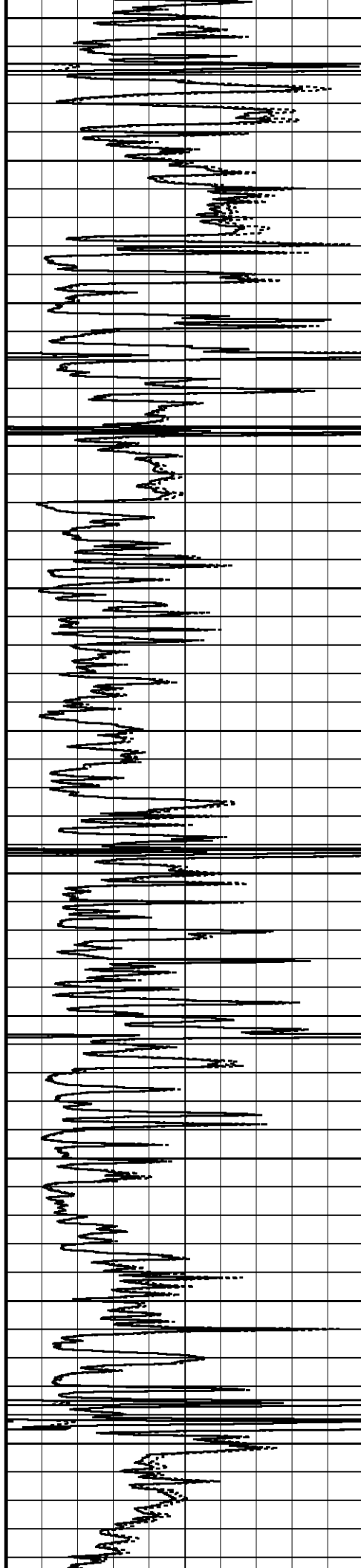
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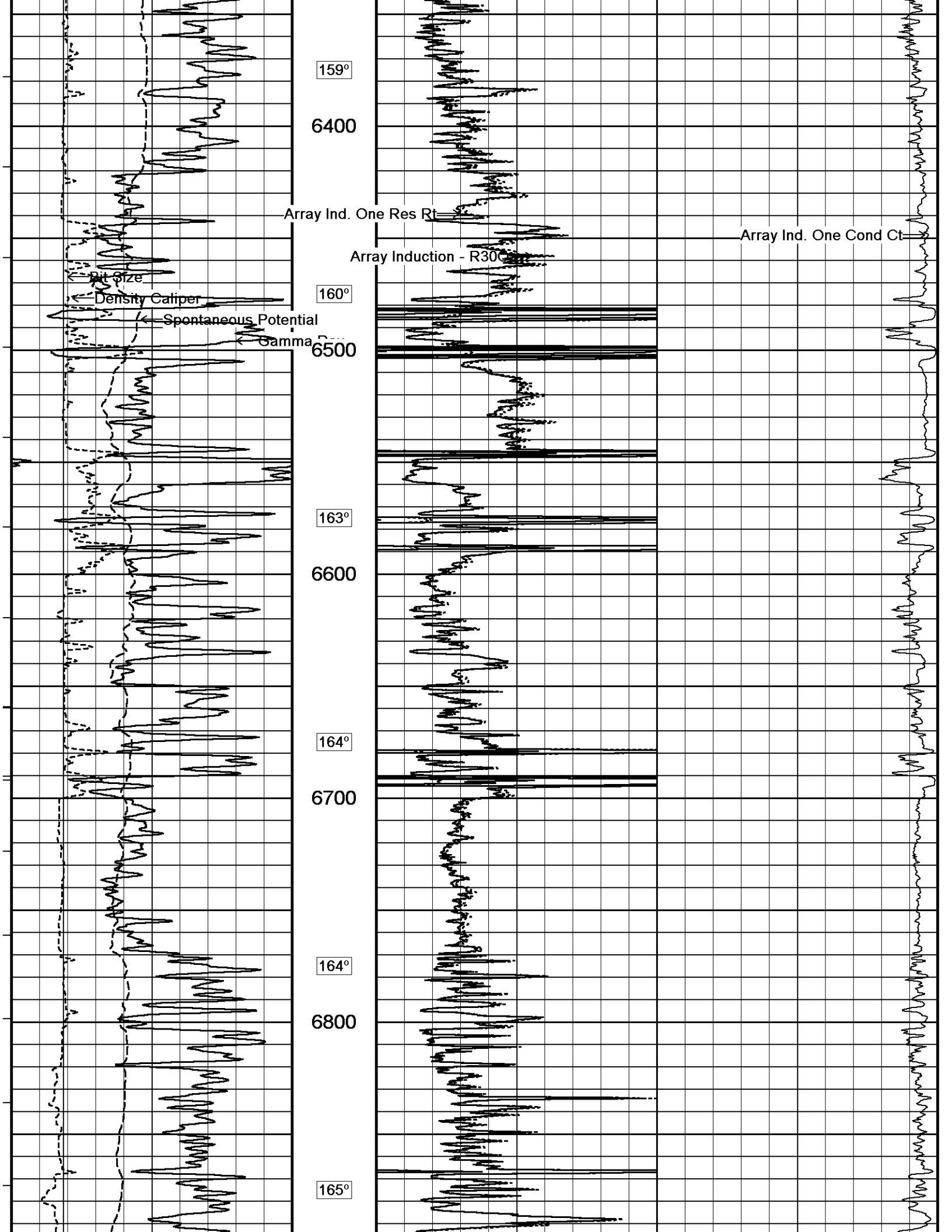
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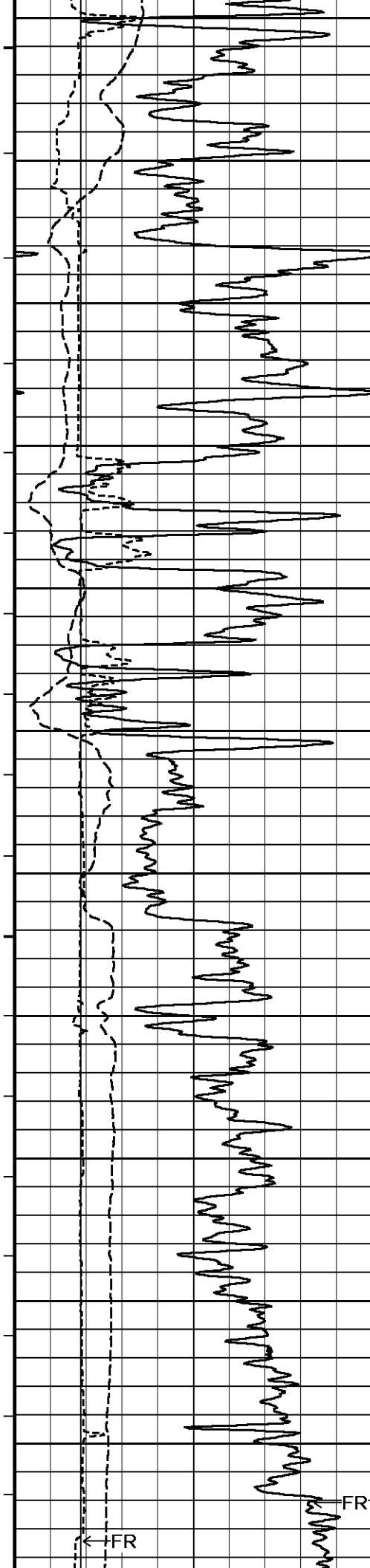
6200

158°

6300







6900

165°

7000

164°

7100

174°

7200

174°

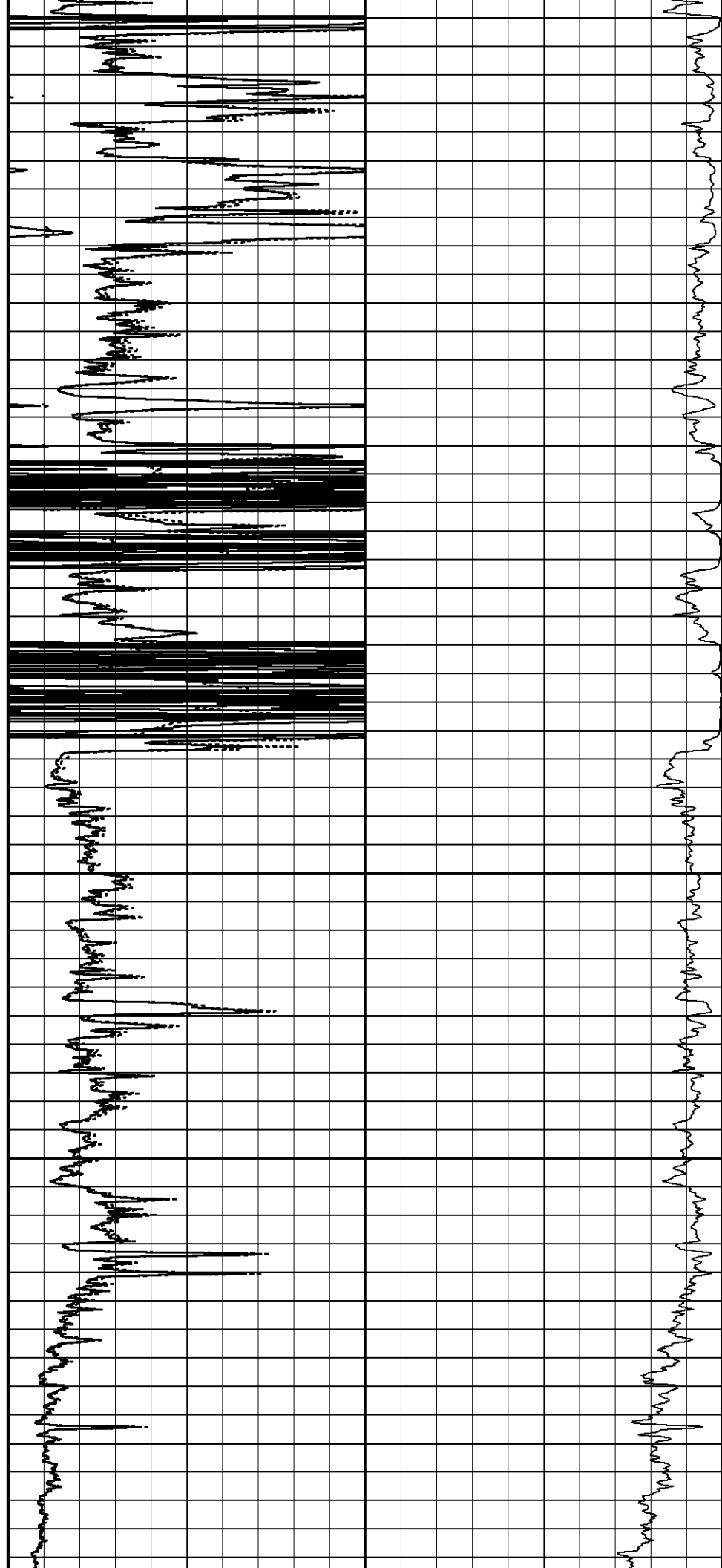
7300

176°

7400

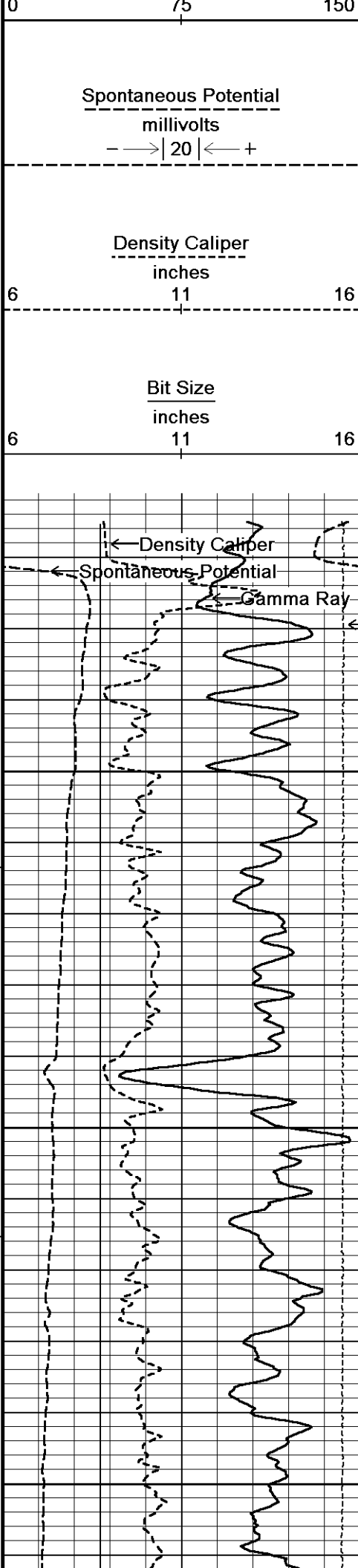
FR

← FR









Borehole Temp in deg F

Replay Scale 1:240

764<sub>3</sub>

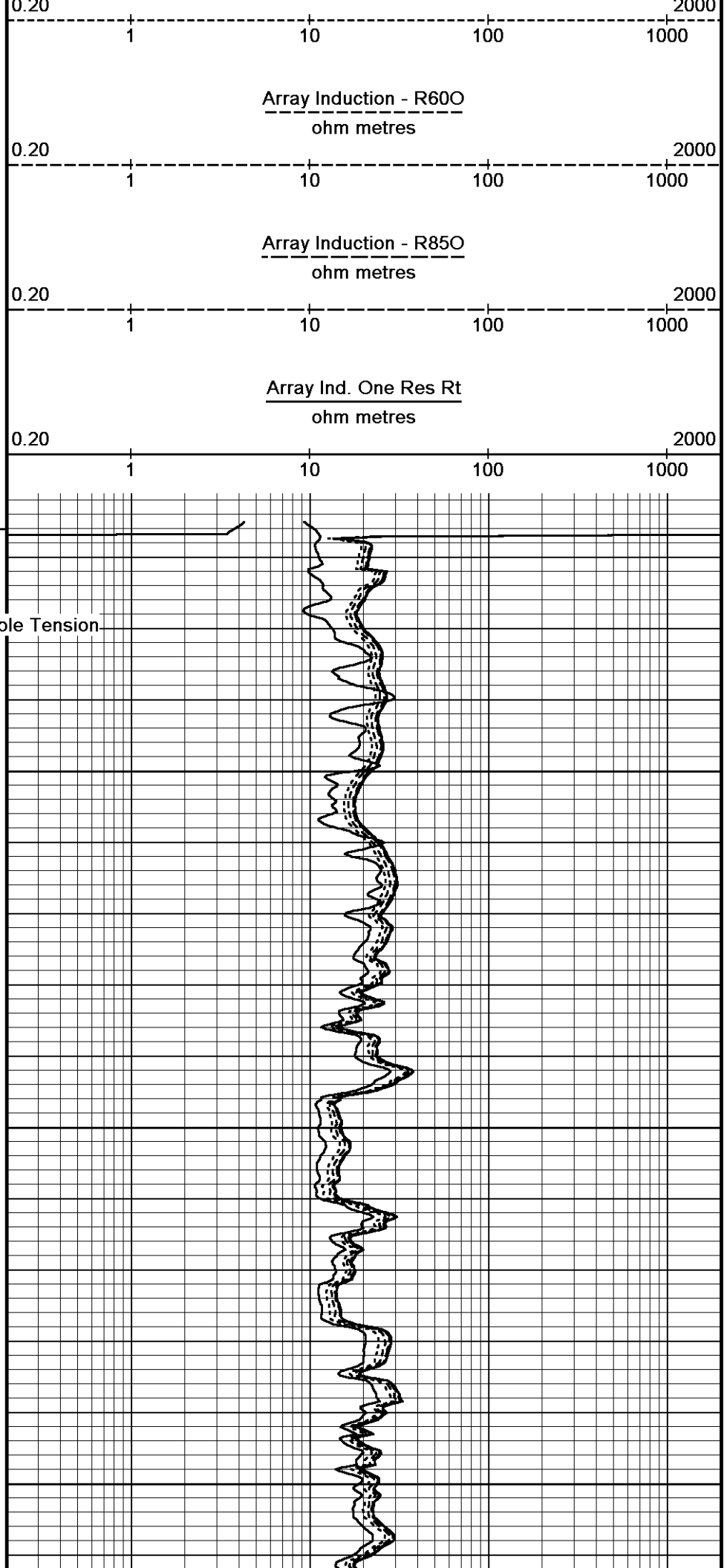
800

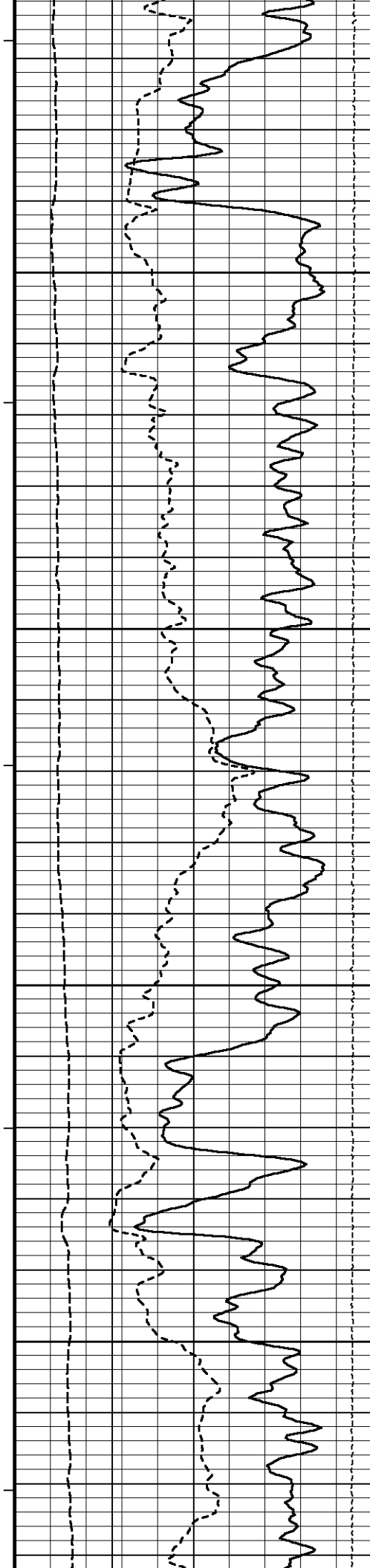
96°

850

96°

900





97°

950

98°

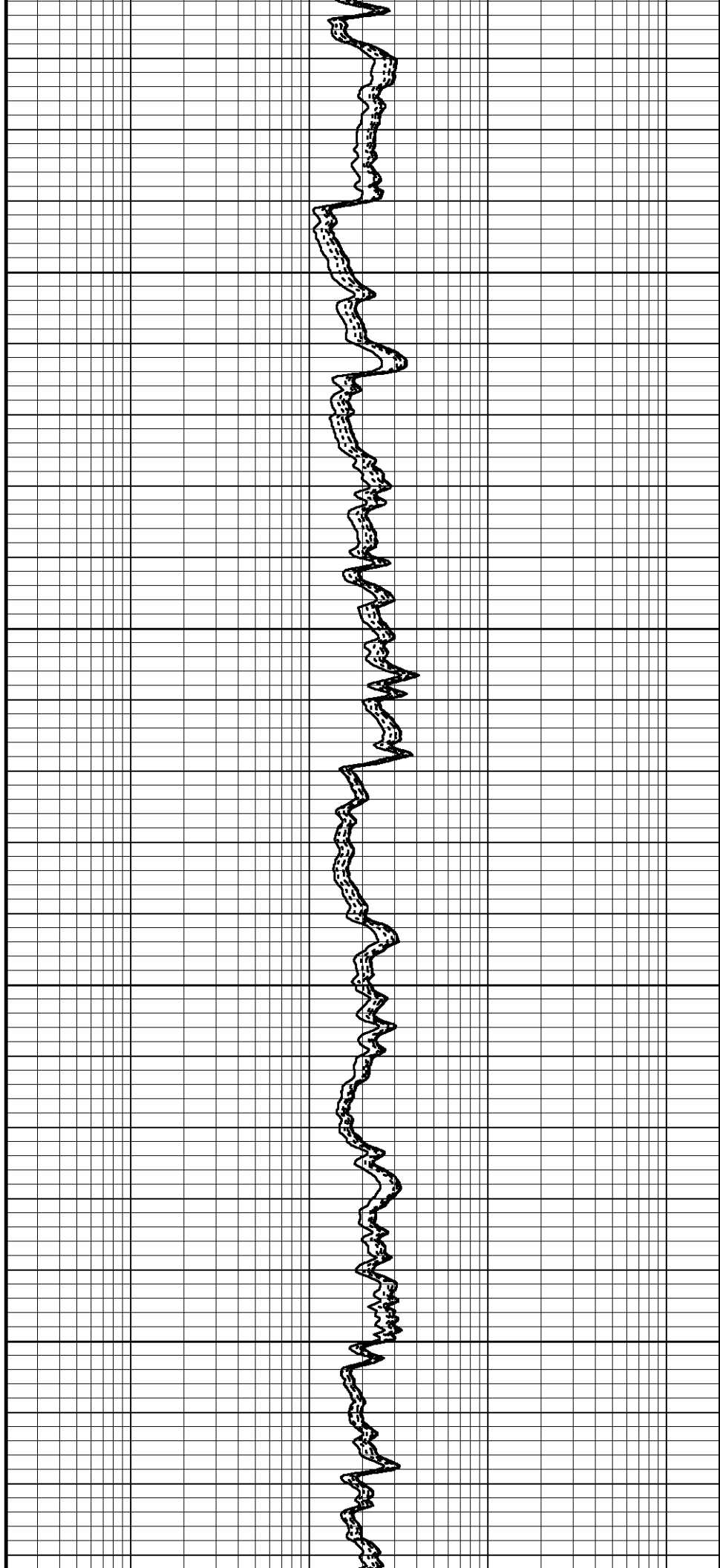
1000

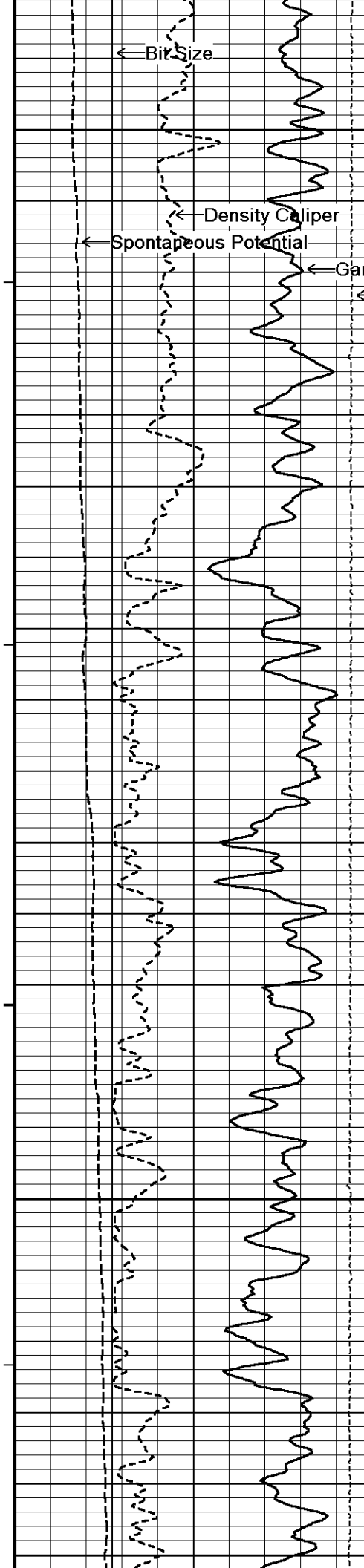
98°

1050

98°

1100





99°

1150

99°

1200

100°

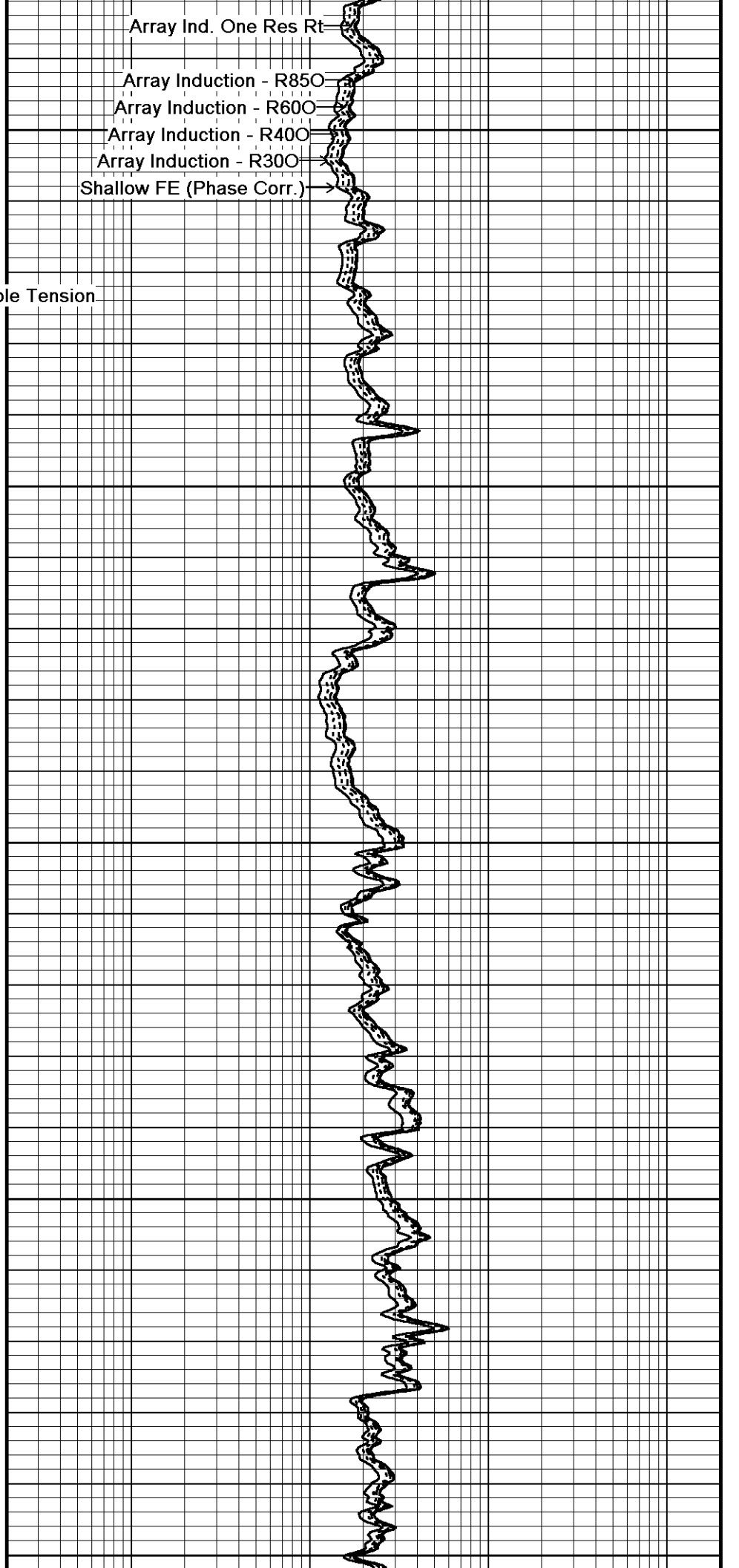
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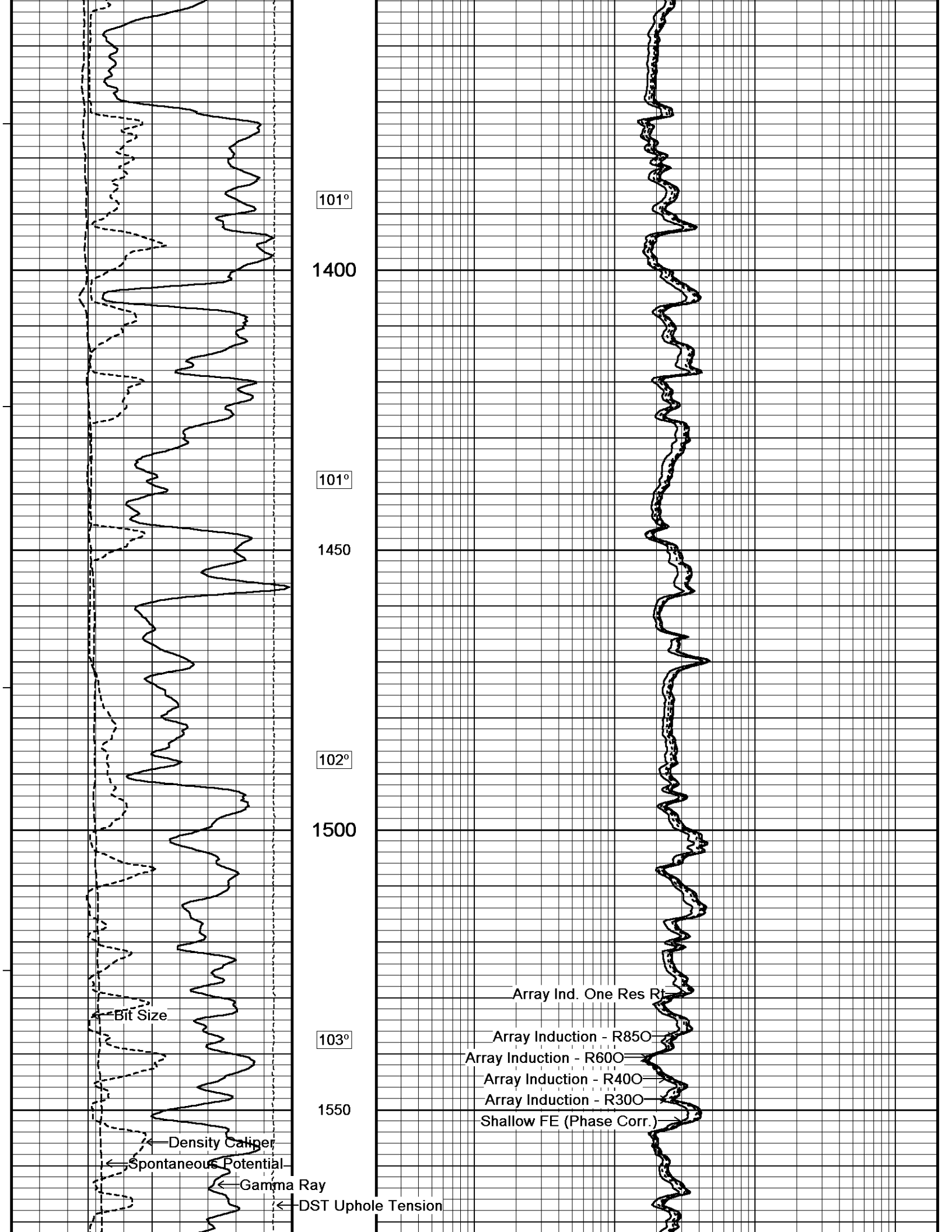
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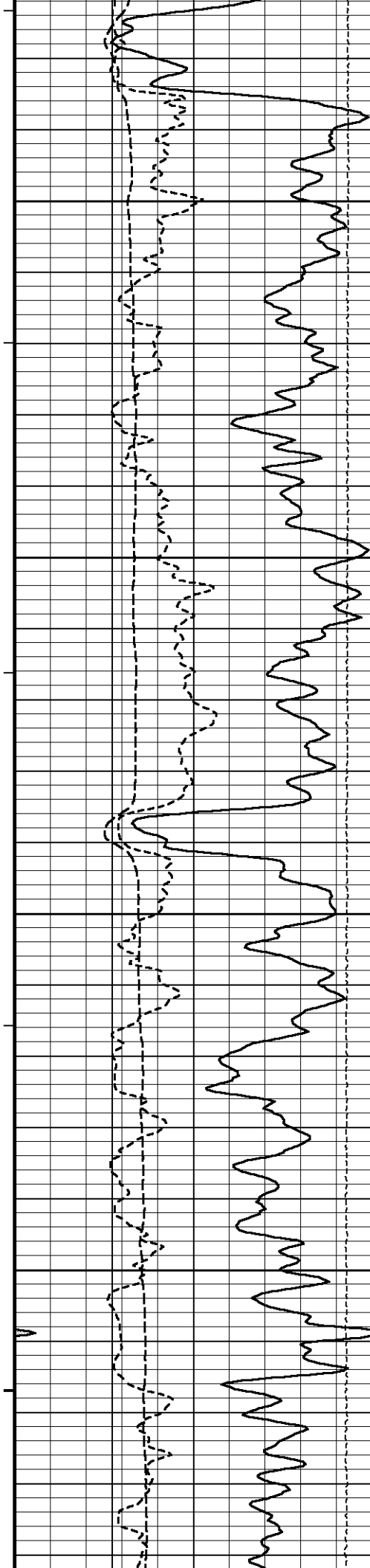
1300

100°

1350







103°

1600

104°

1650

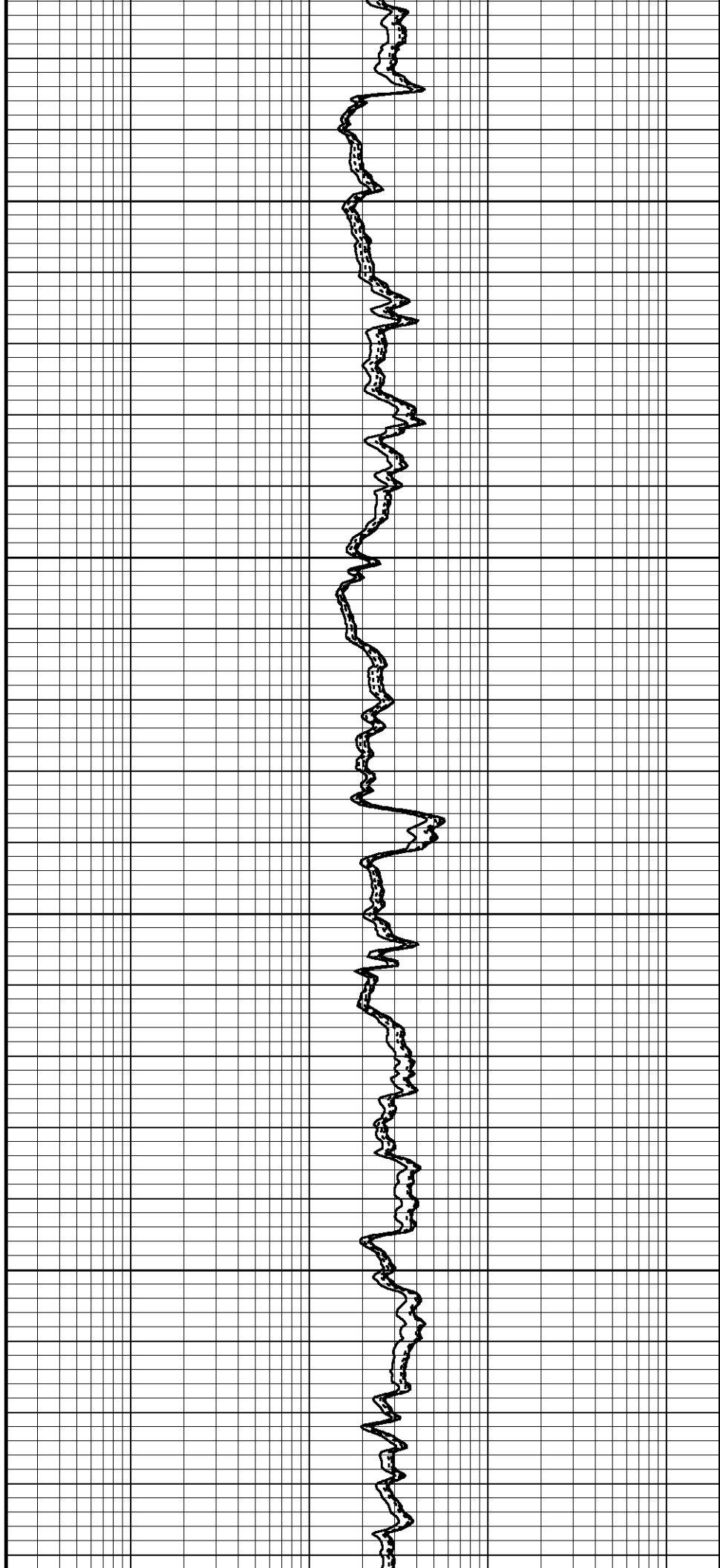
104°

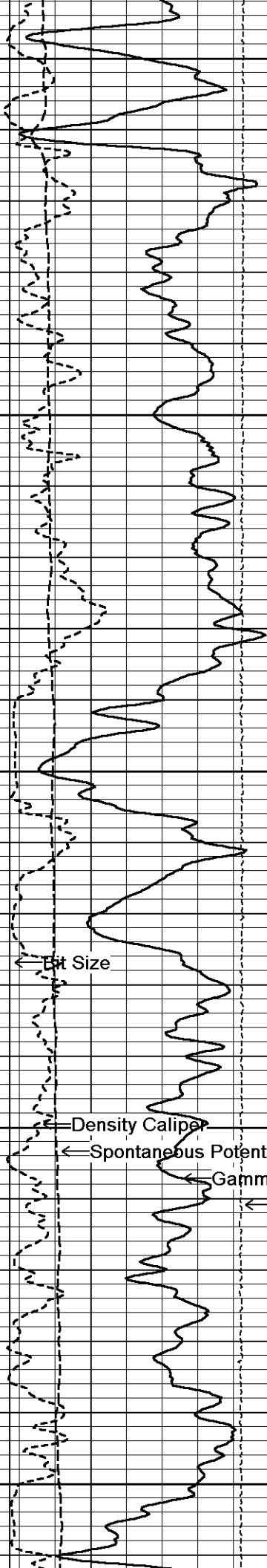
1700

104°

1750

105°





1800

106°

1850

106°

1900

Bit Size

Density Caliper

Spontaneous Potential

Gamma Ray

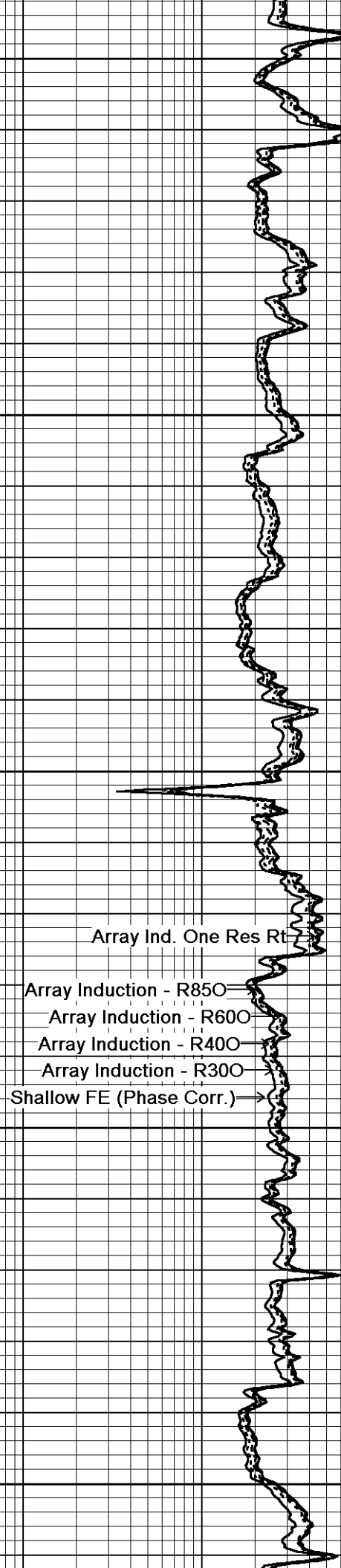
DST Uphole Tension

107°

1950

107°

2000



Array Ind. One Res Rt.

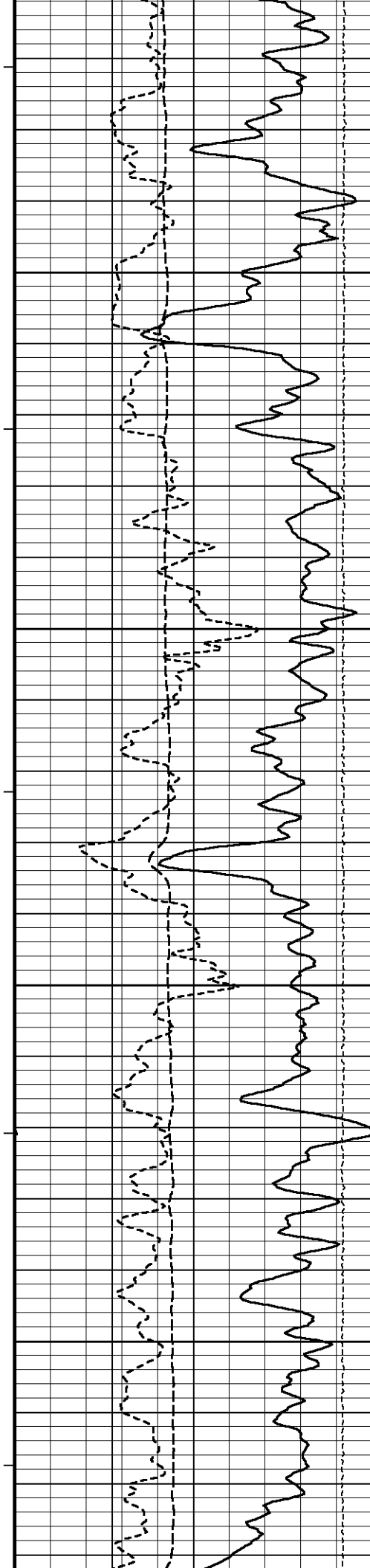
Array Induction - R850

Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr.)



108°

2050

108°

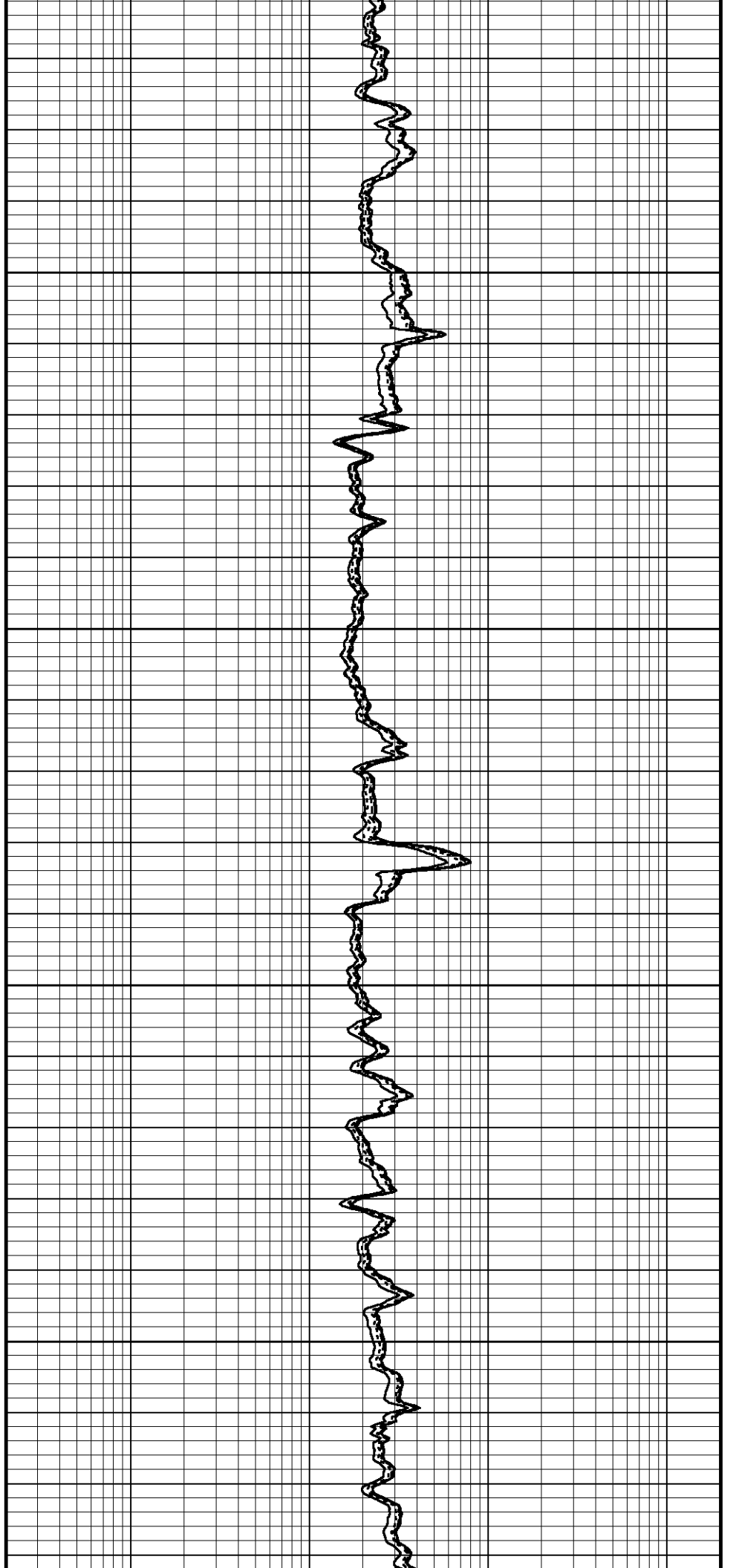
2100

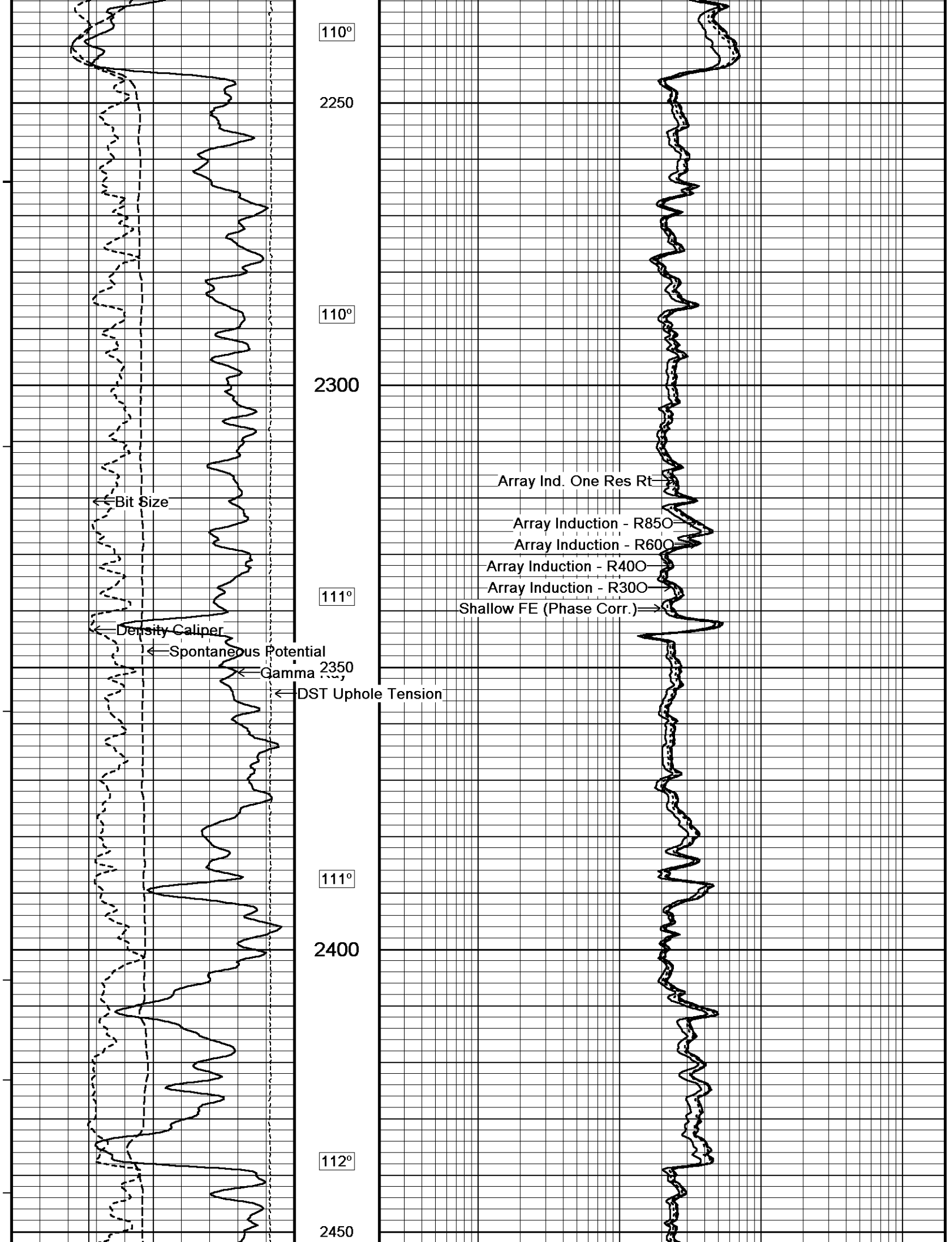
109°

2150

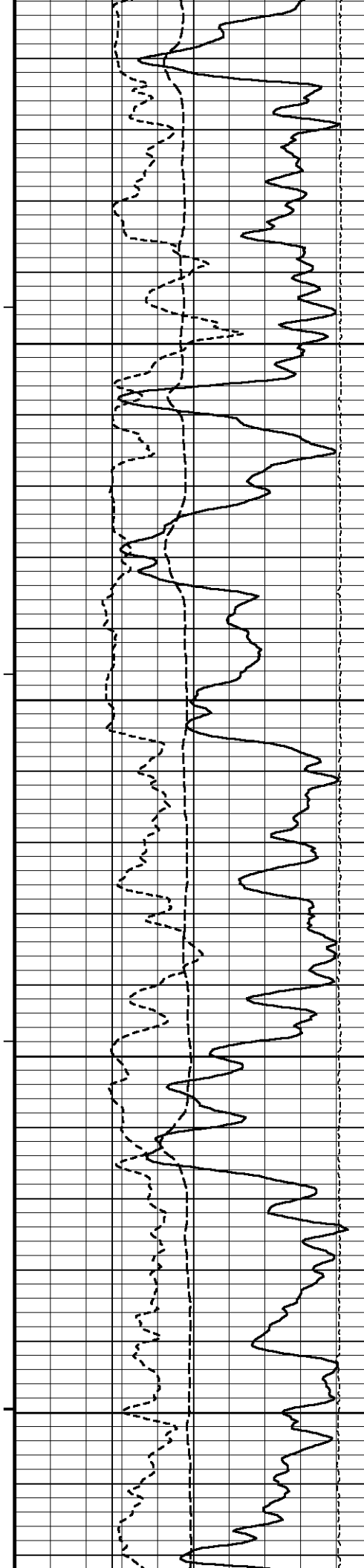
109°

2200









112°

2500

113°

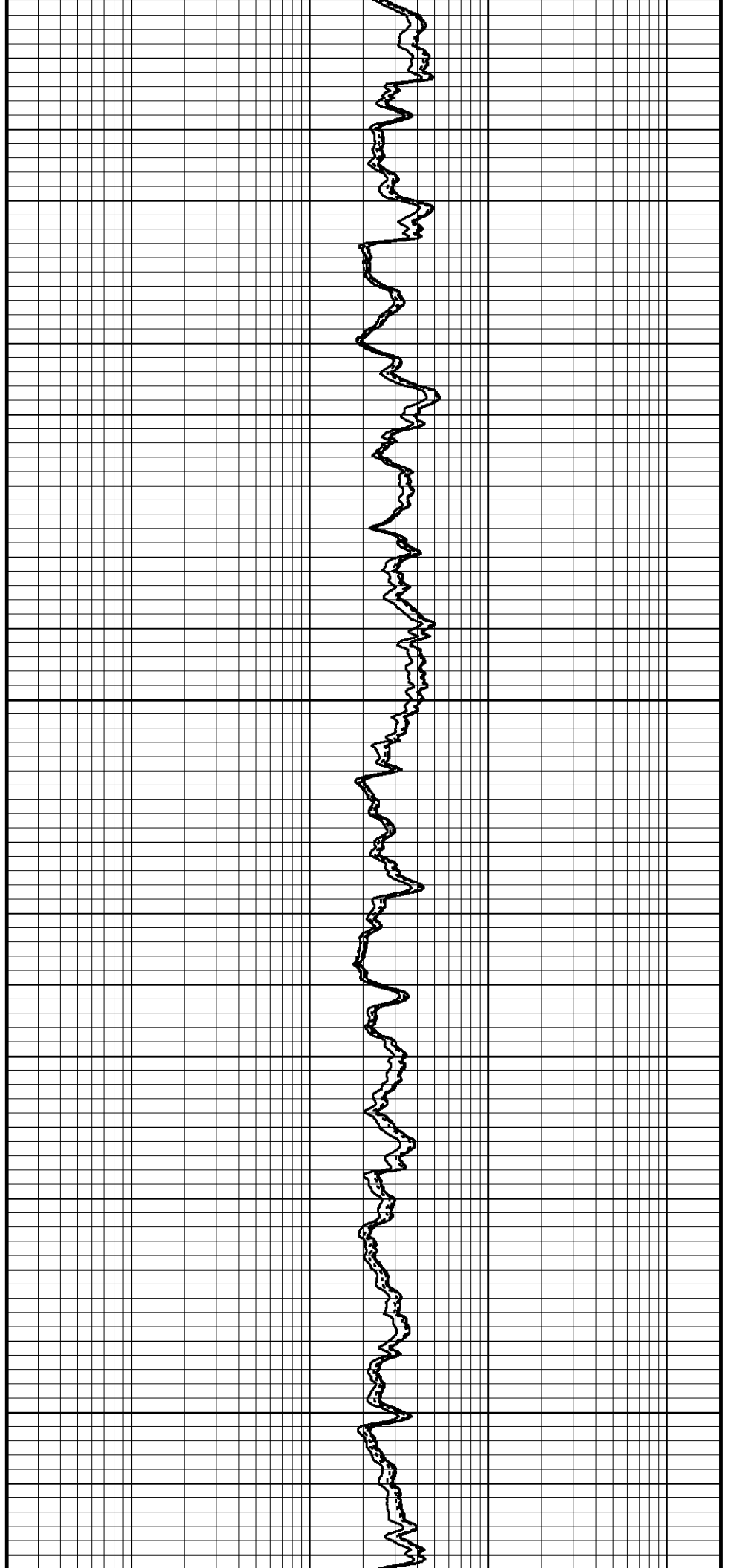
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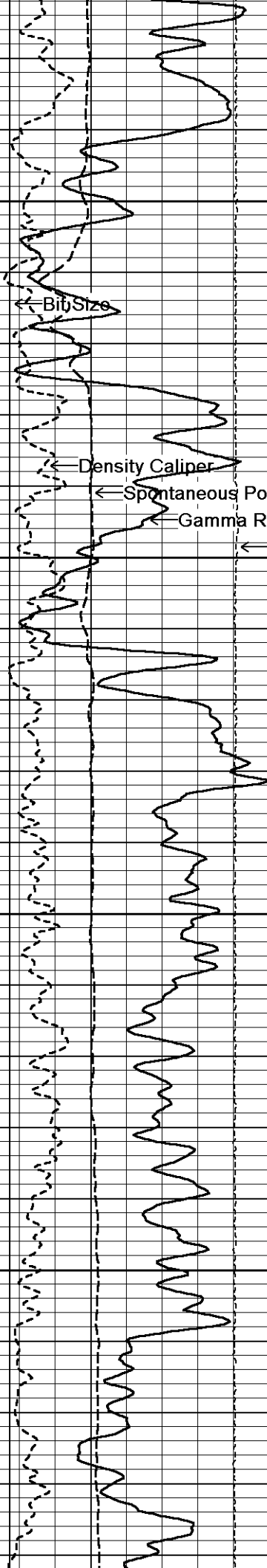
113°

2600

114°

2650





114°

2700

115°

2750

115°

2800

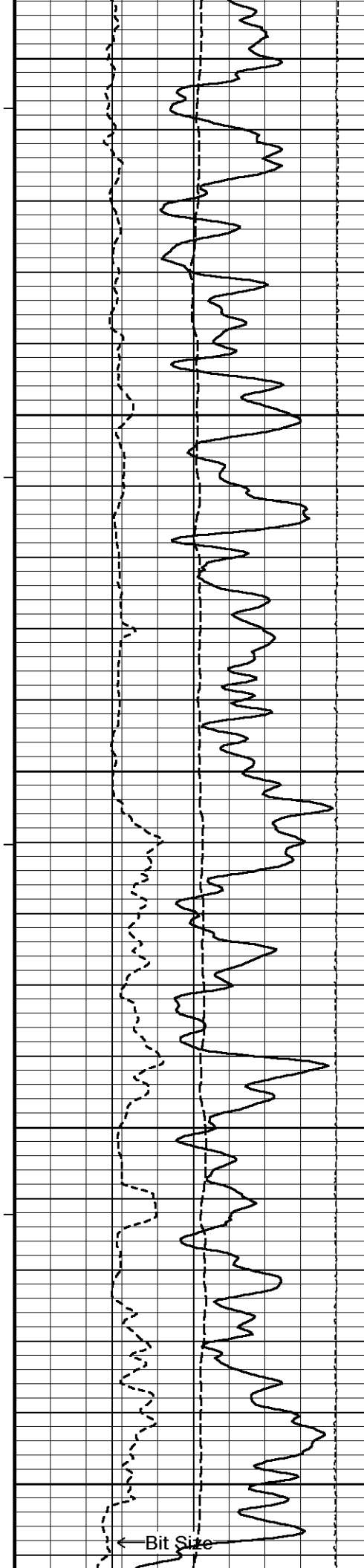
116°

2850

117°

Array Ind. One Res Rt  
Array Induction - R850  
Array Induction - R600  
Array Induction - R400  
Array Induction - R300  
Shallow FE (Phase Corr.)

DST - Wellbore Tension



2900

118°

2950

118°

3000

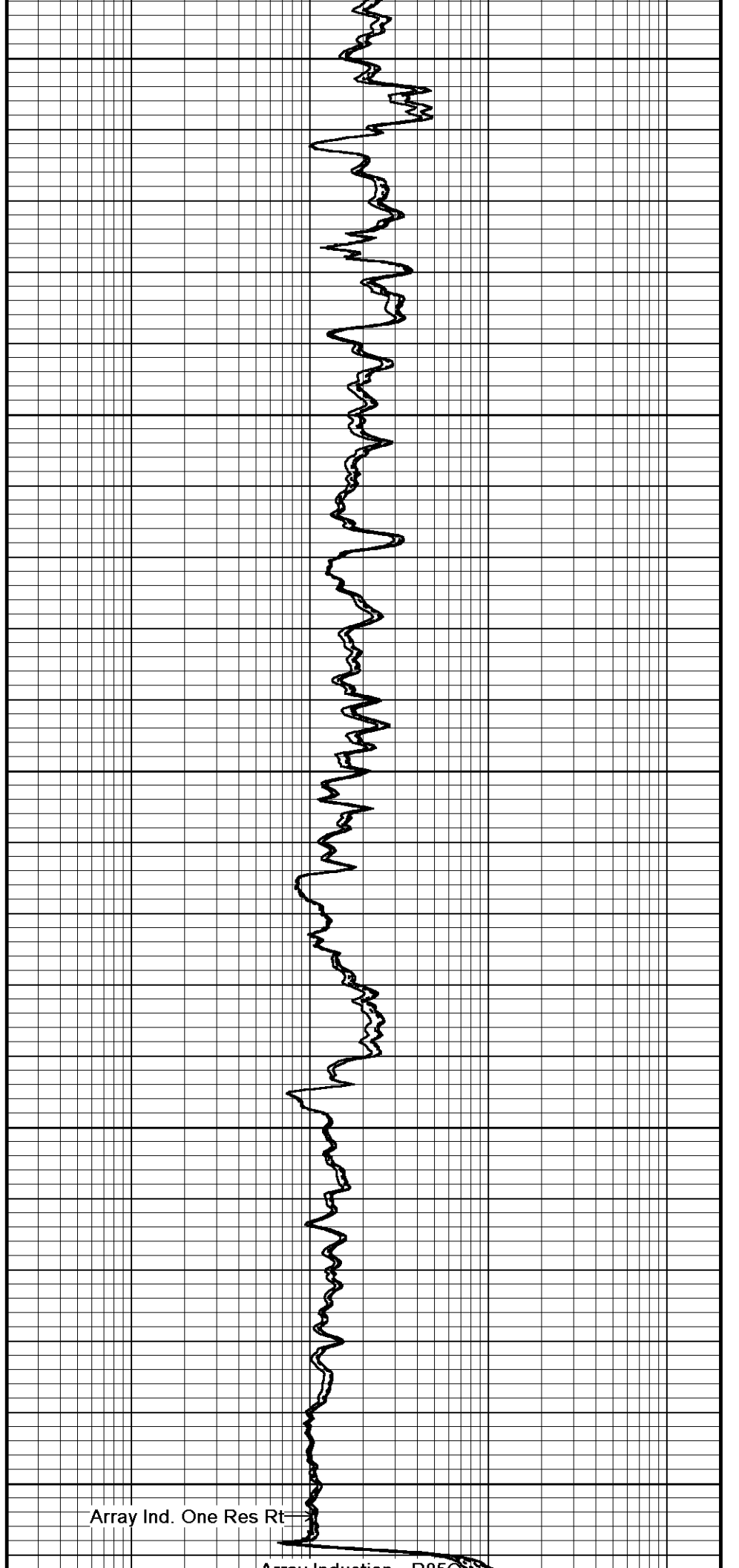
119°

3050

119°

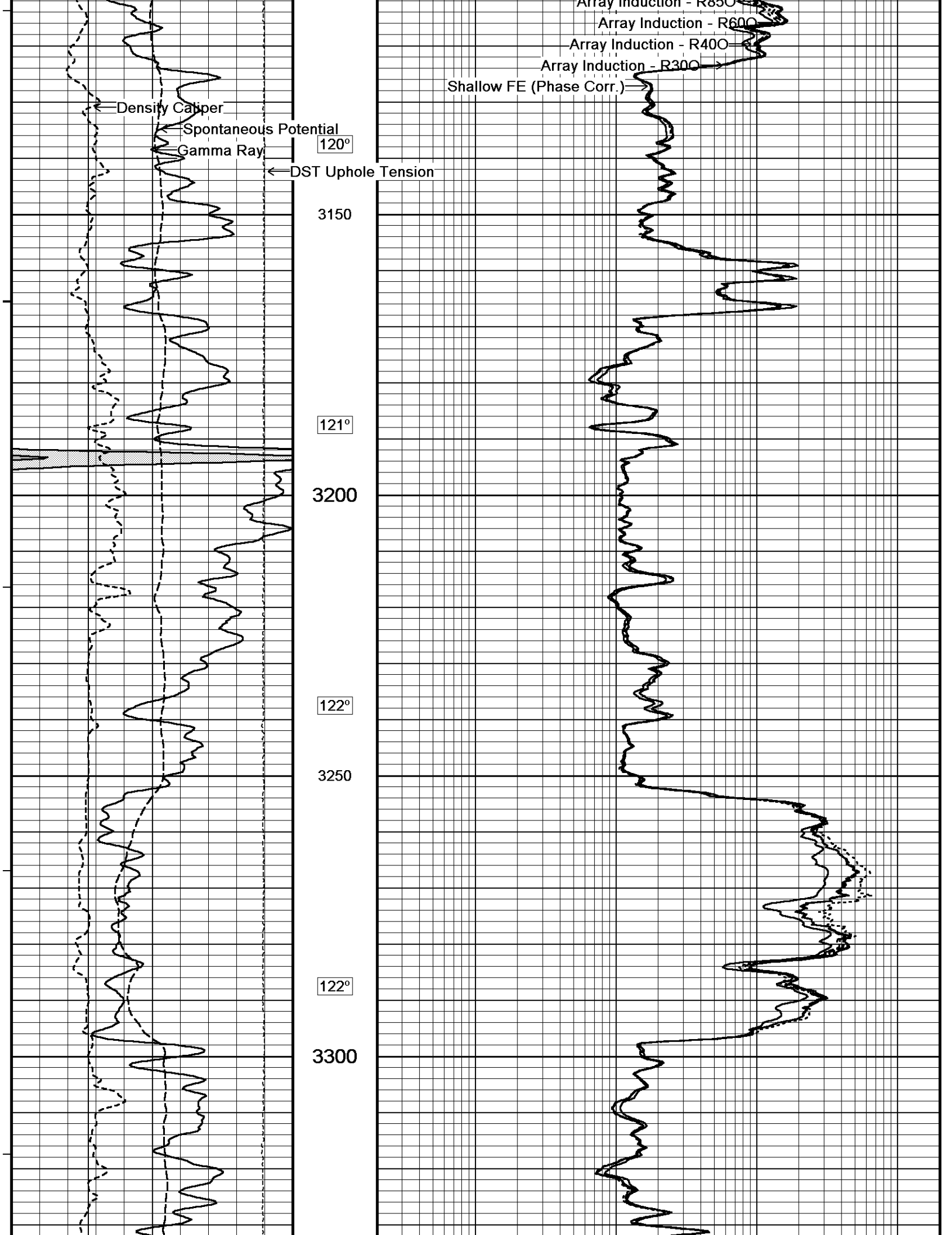
3100

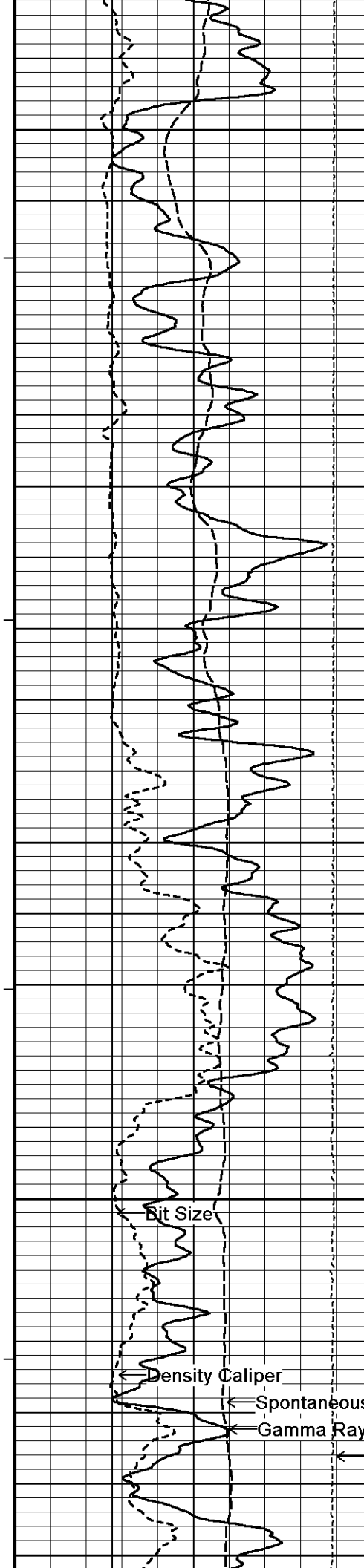
Bit Size



Array Ind. One Res Rt

Array Ind. One Res Rt





123°

3350

124°

3400

124°

3450

124°

3500

Bit Size

Density Caliper

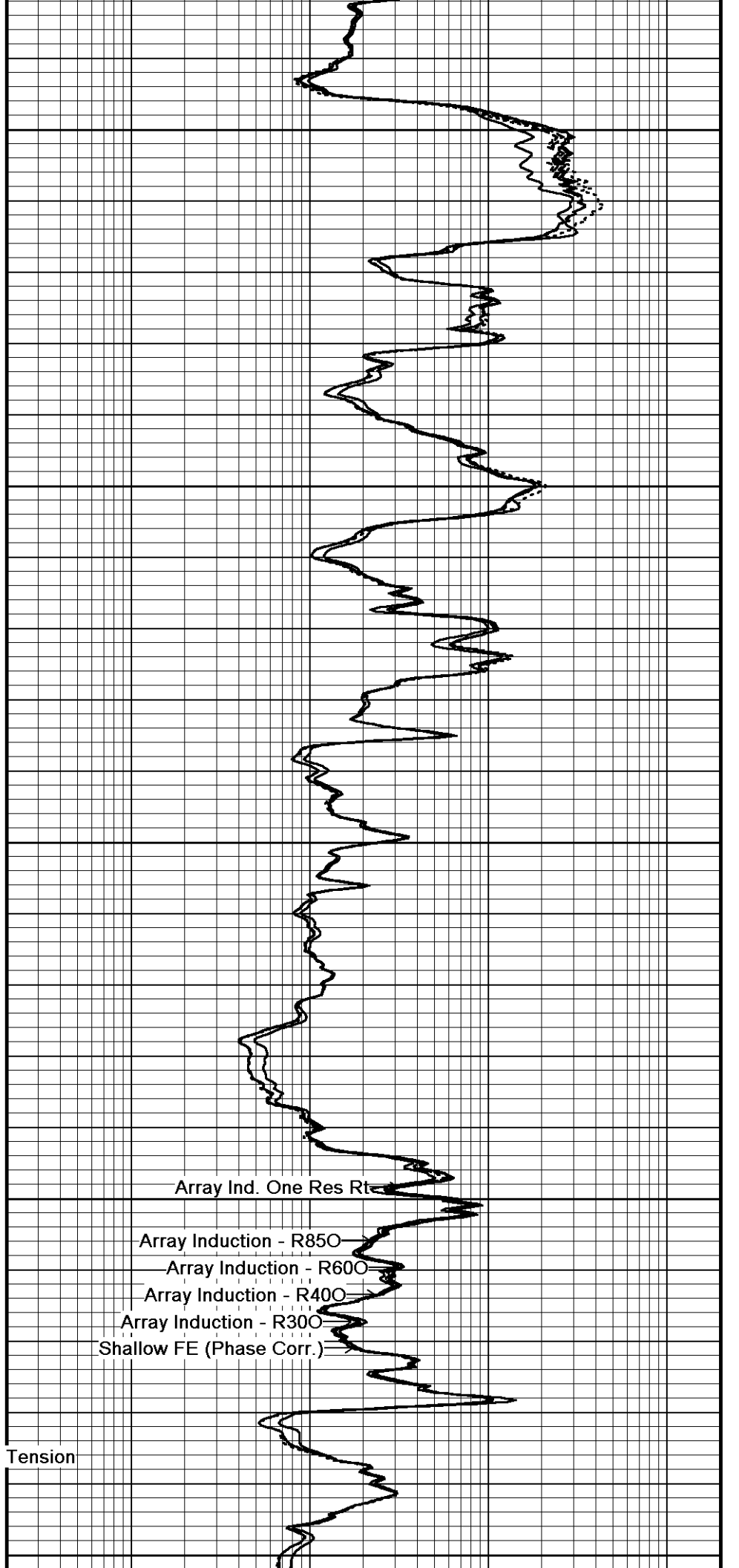
Spontaneous Potential

Gamma Ray

DST Up-hole Tension

125°

3550



Array Ind. One Res Rt

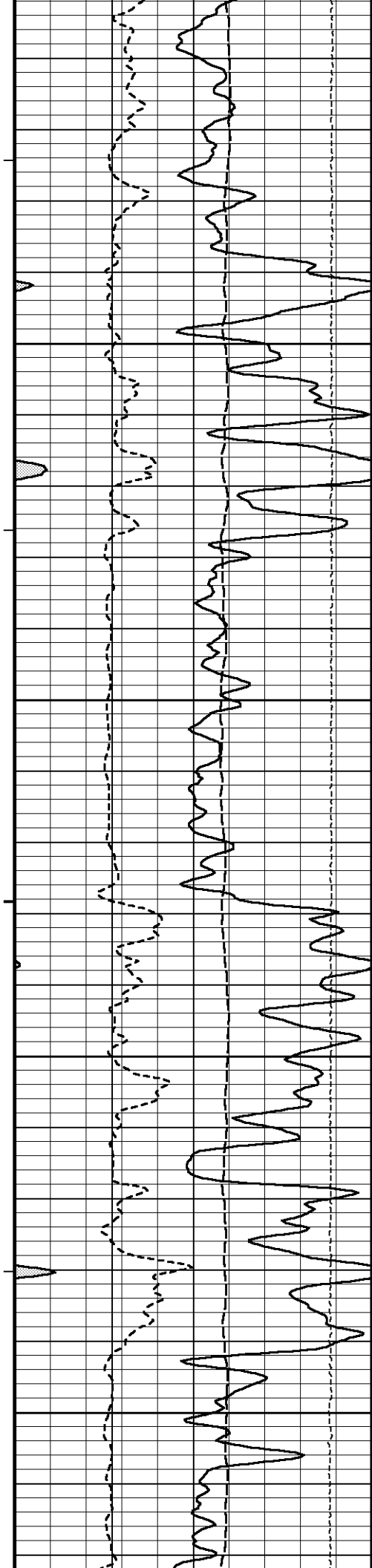
Array Induction - R850

Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr.)



125°

3600

126°

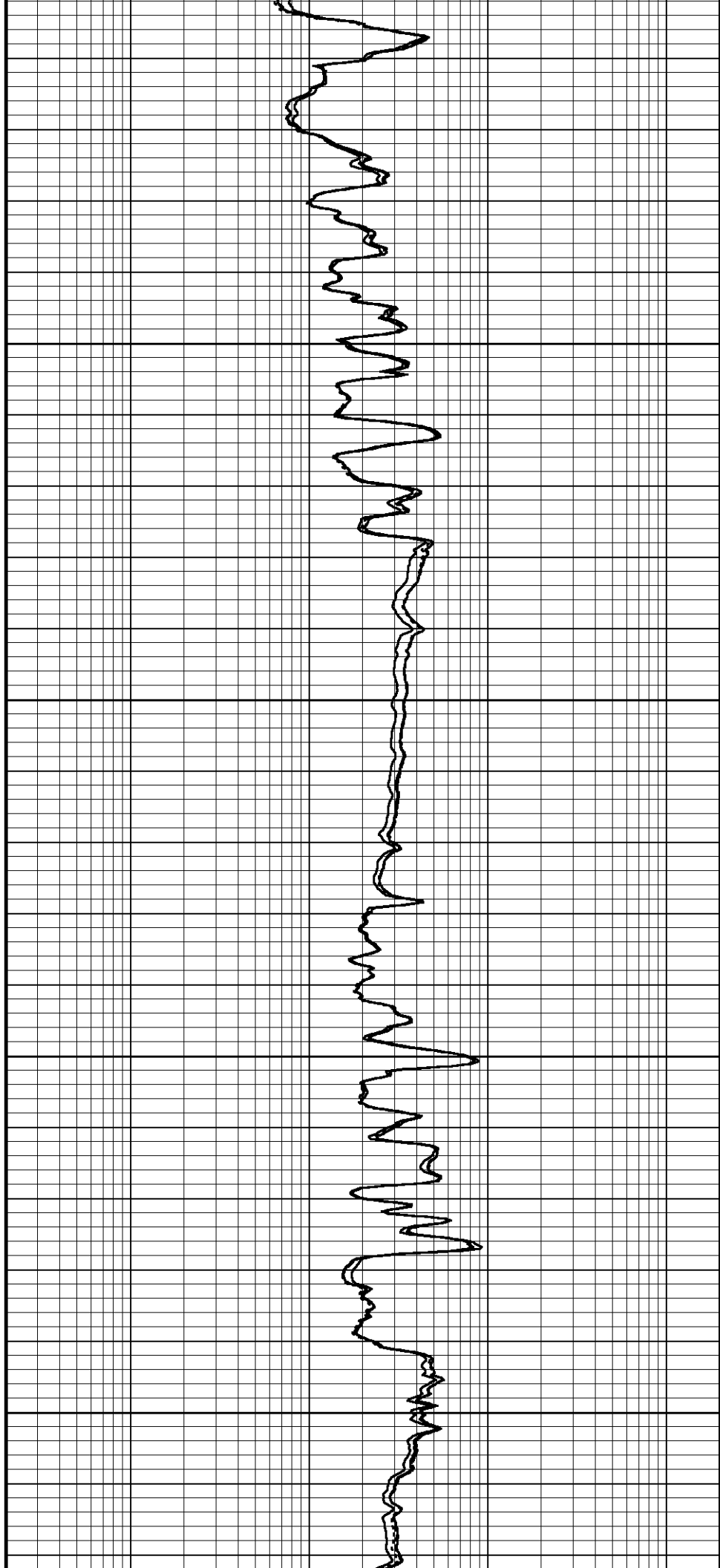
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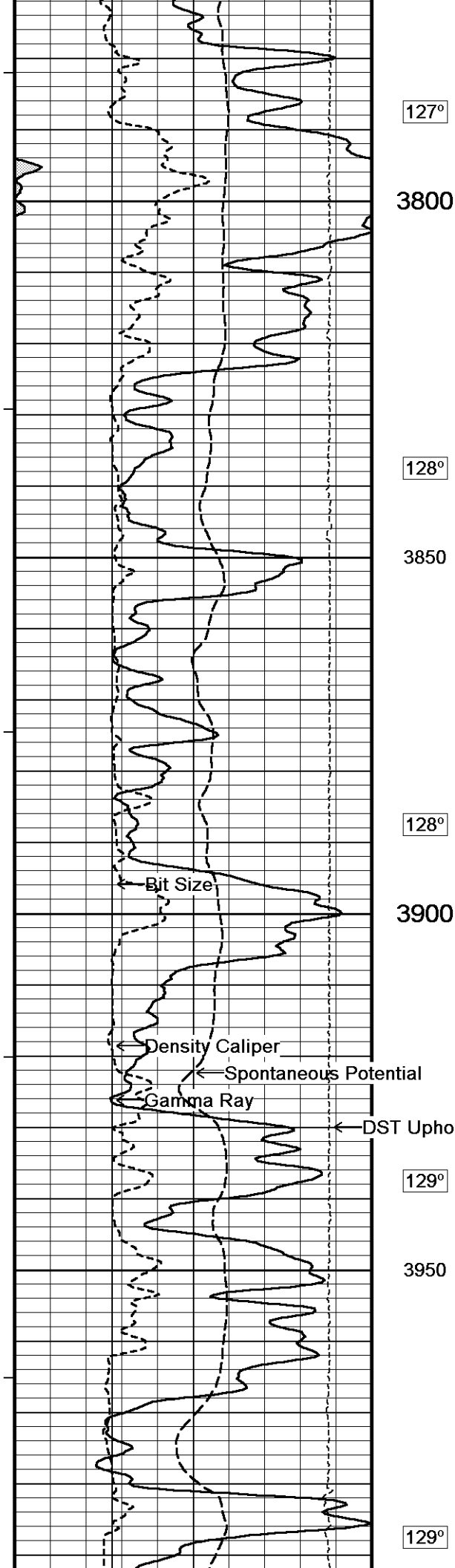
126°

3700

127°

3750





127°

3800

128°

3850

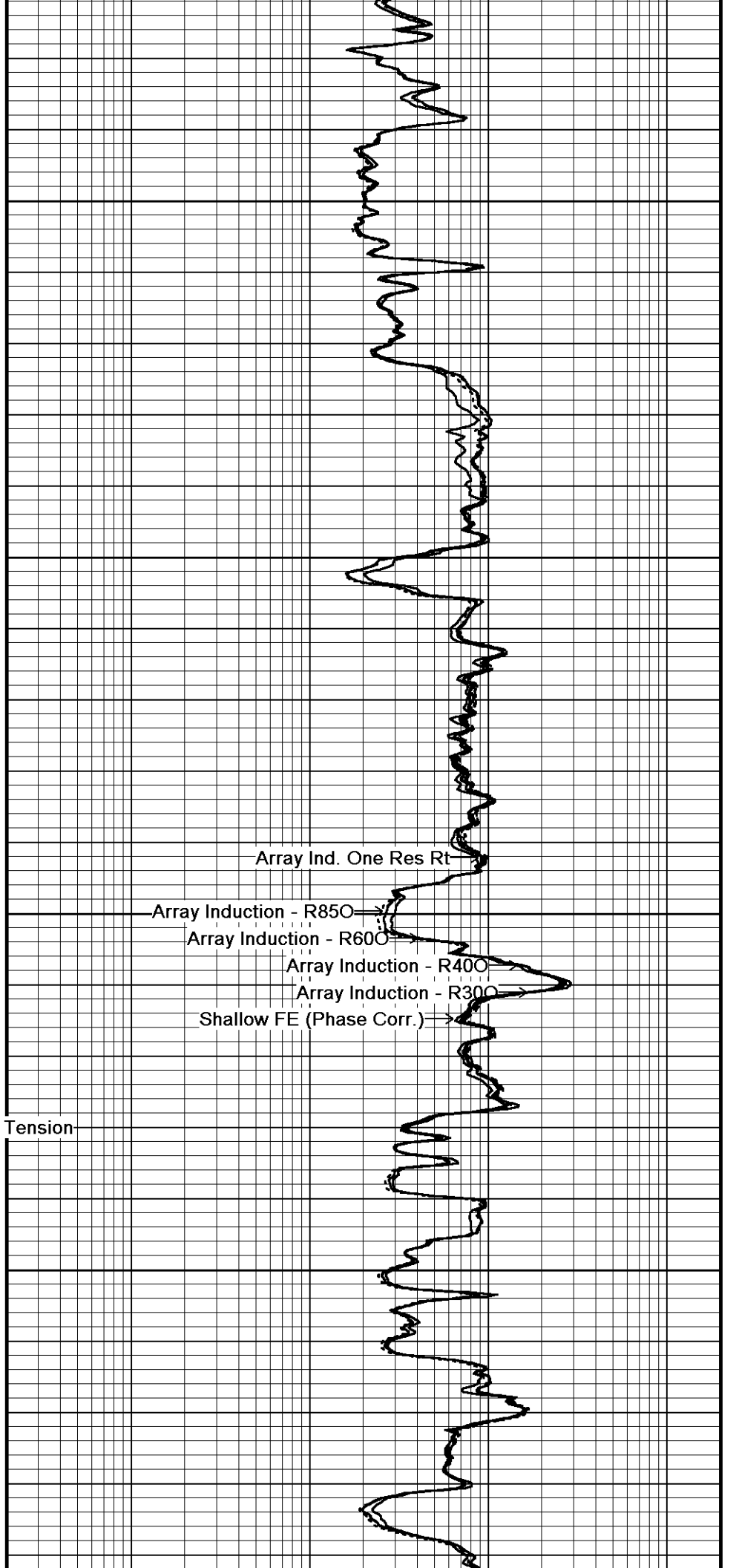
128°

3900

129°

3950

129°



Array Ind. One Res Rt

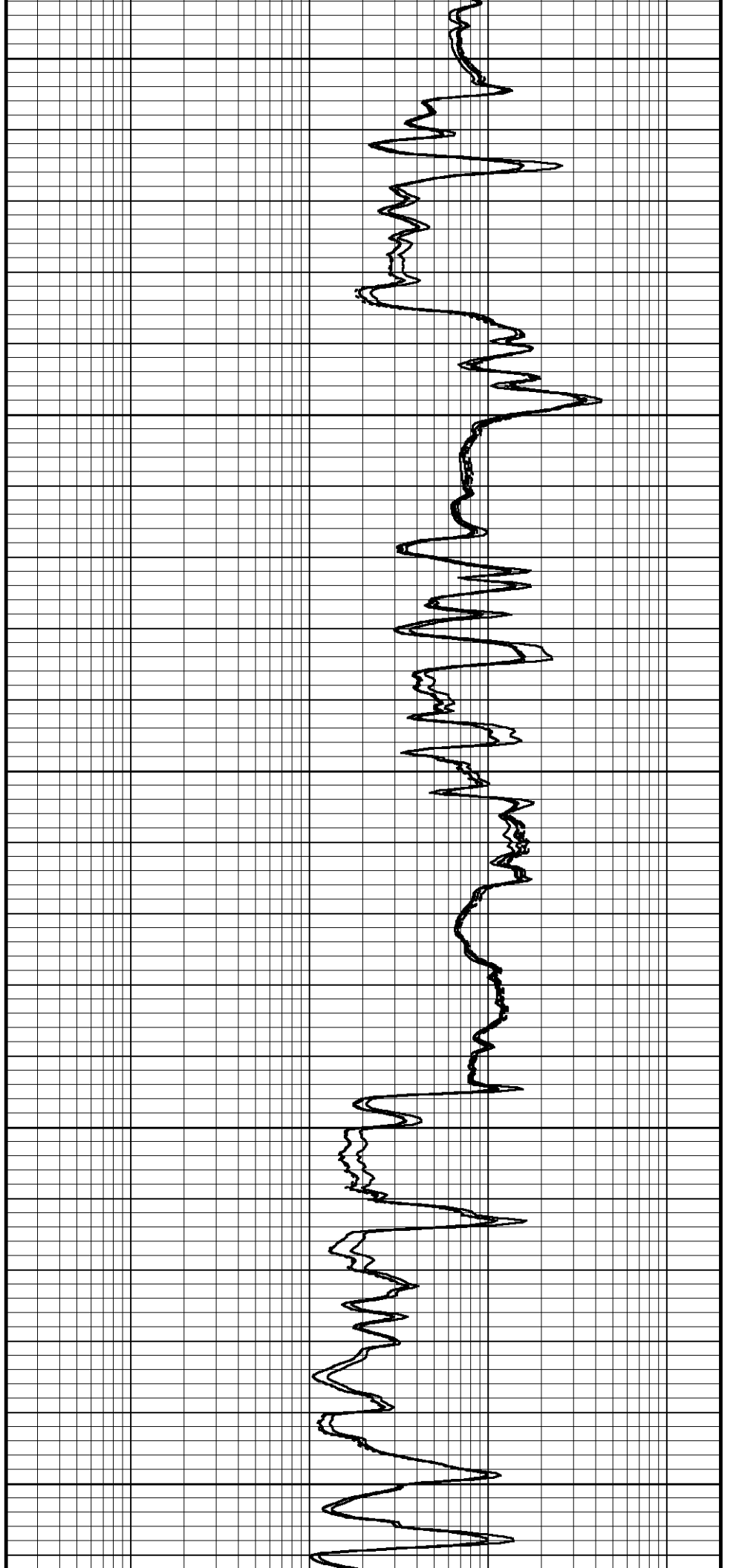
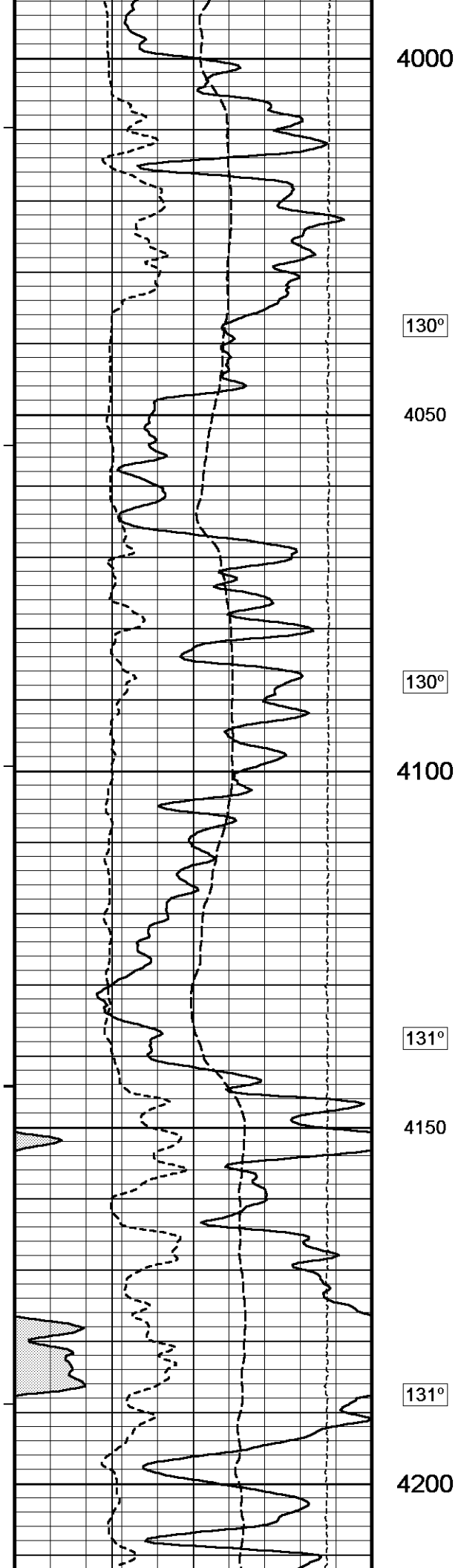
Array Induction - R850

Array Induction - R600

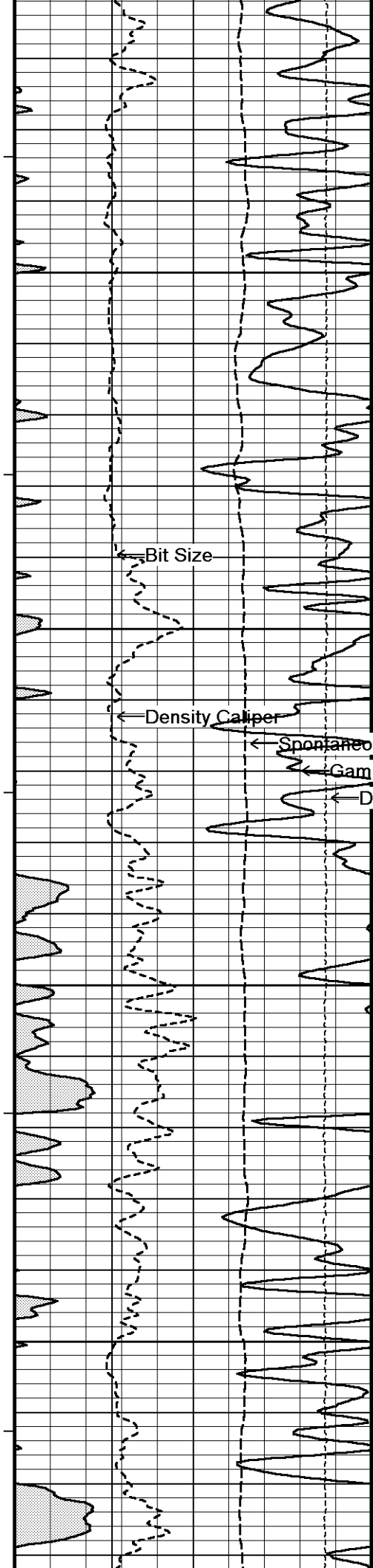
Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr.)







132°

4250

133°

4300

133°

4350

133°

4400

Bit Size

Density Caliper

Spontaneous Potential

Gamma Ray

DST Uphole Tension

Array Ind. One Res Rt

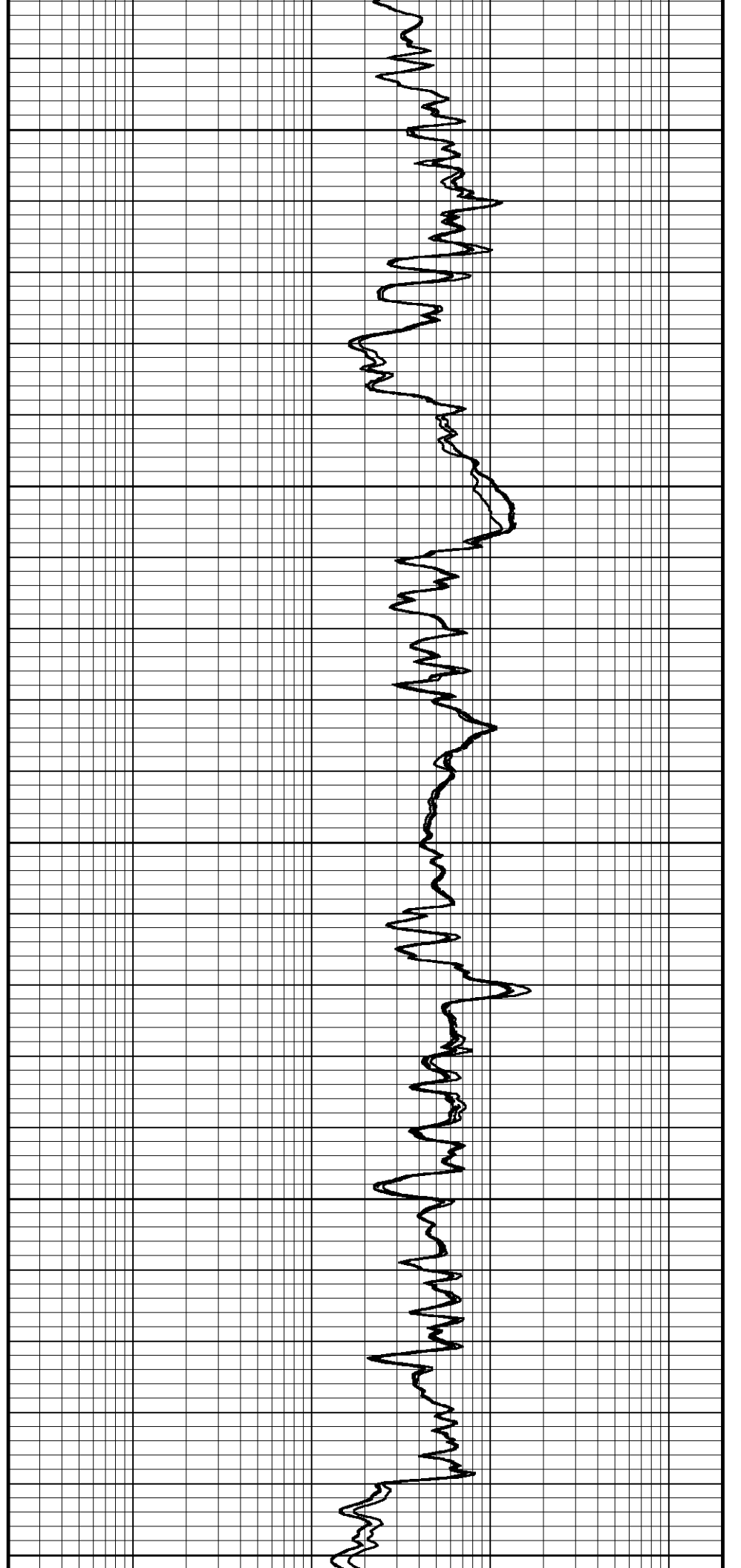
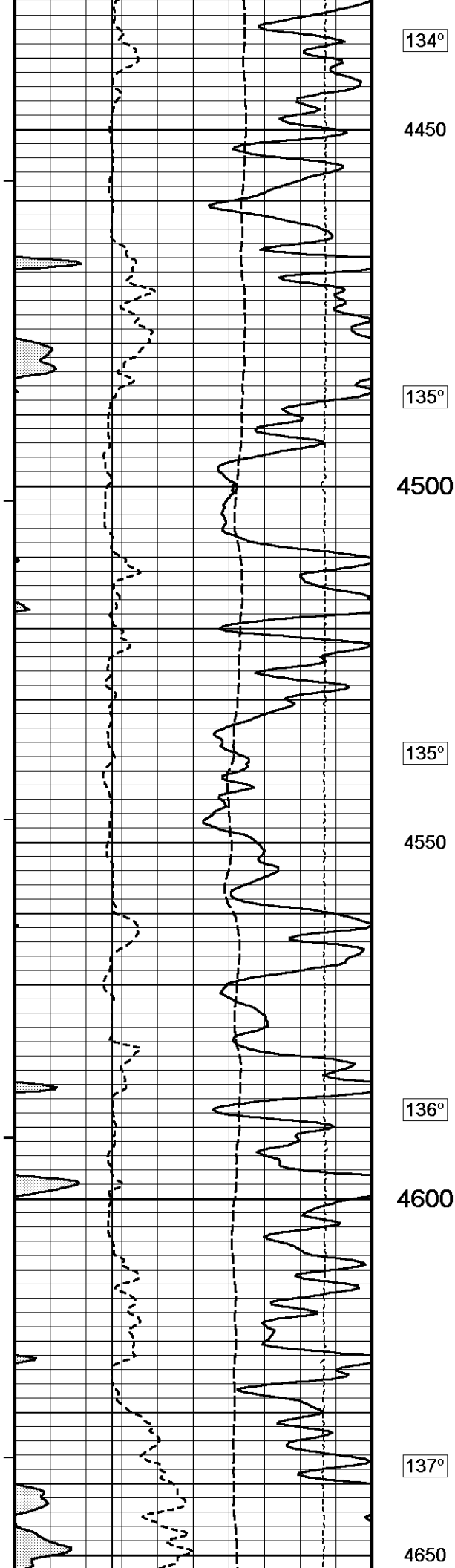
Array Induction - R850

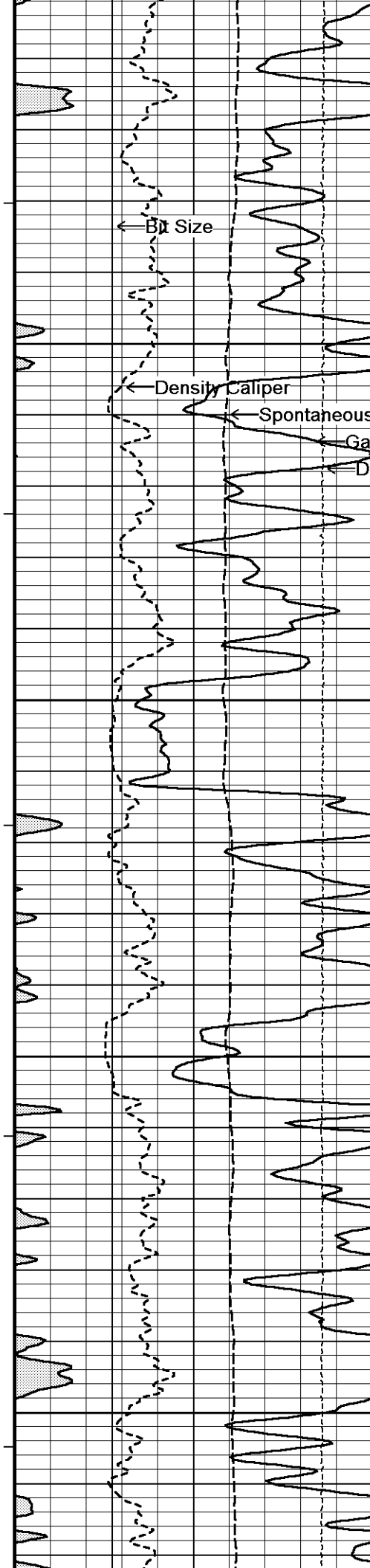
Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr.)





137°

4700

138°

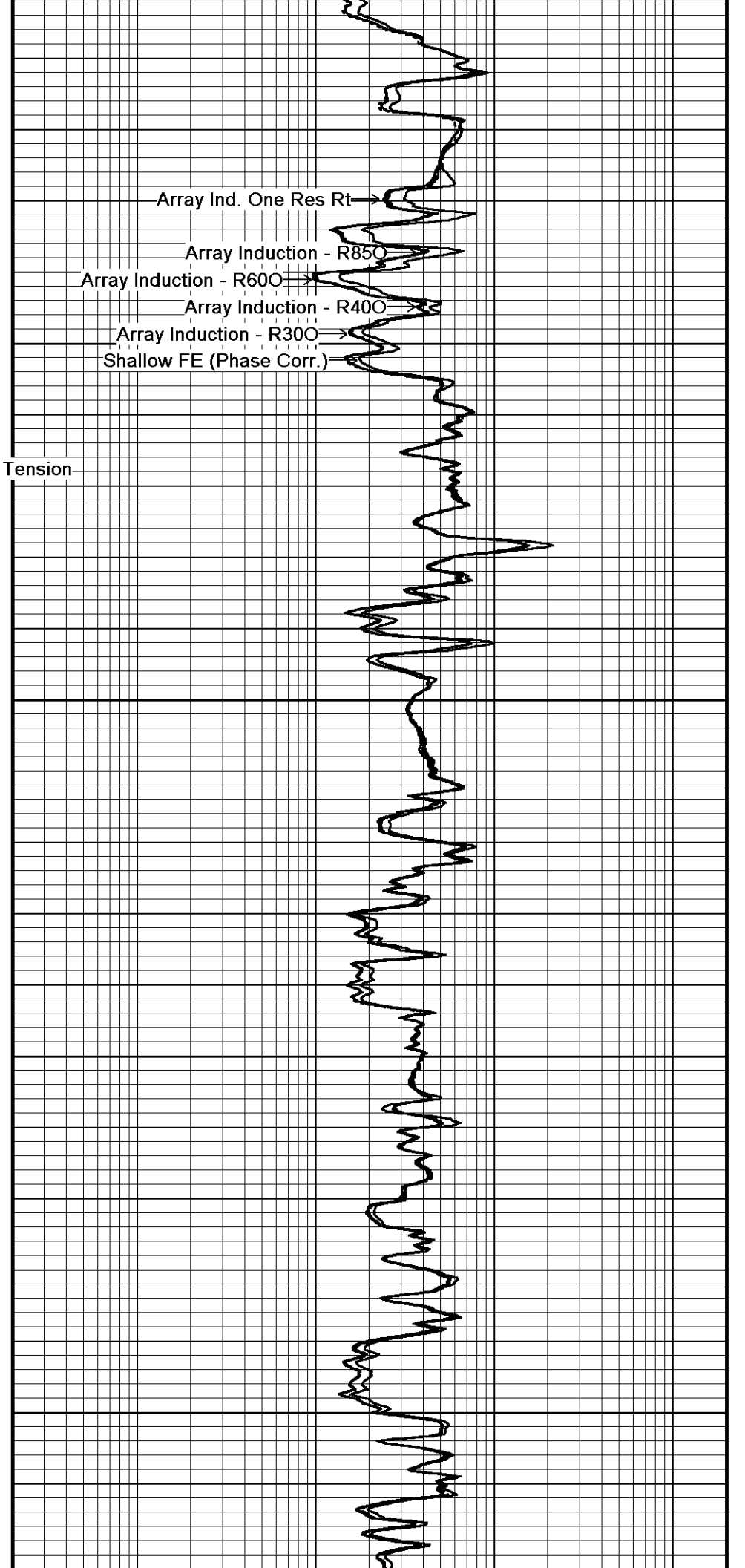
4750

138°

4800

139°

4850



Array Ind. One Res Rt

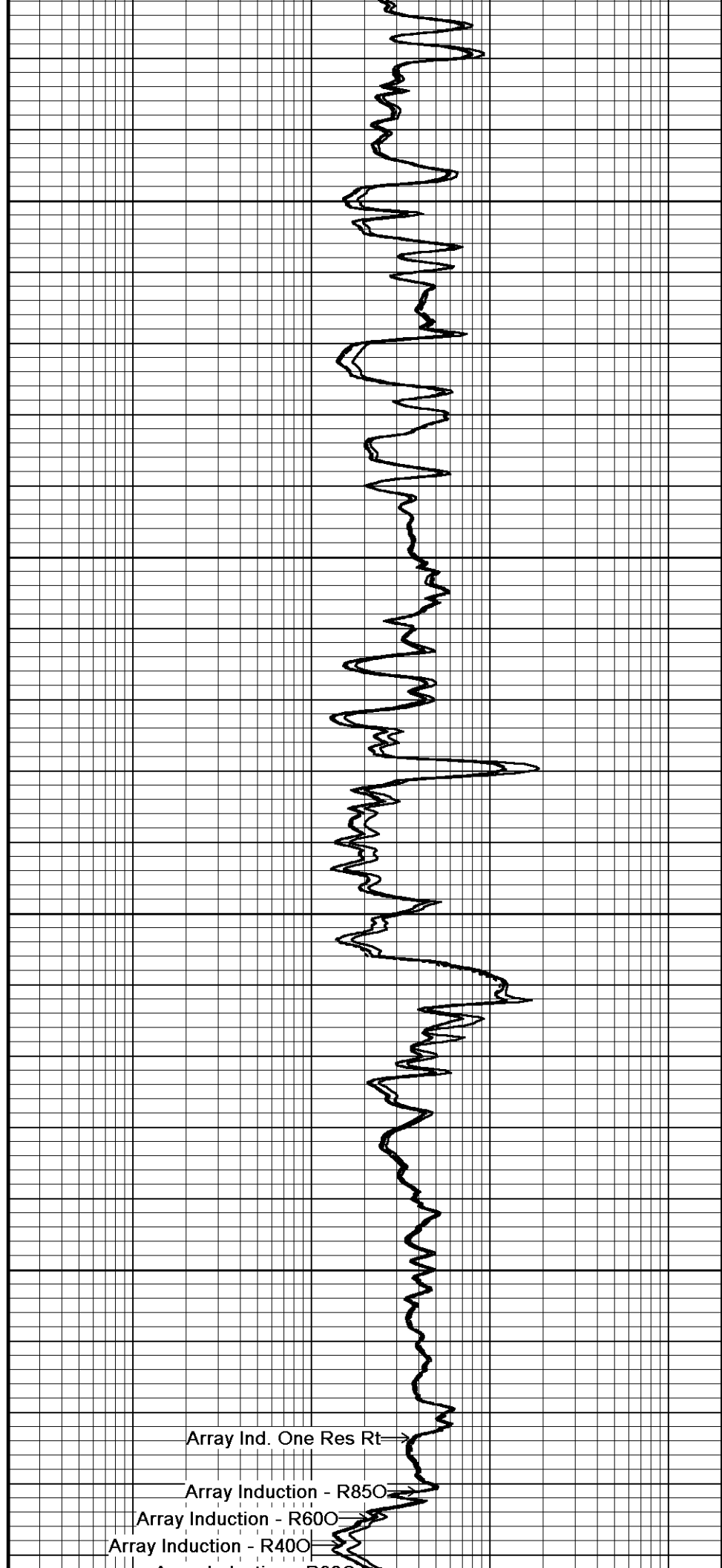
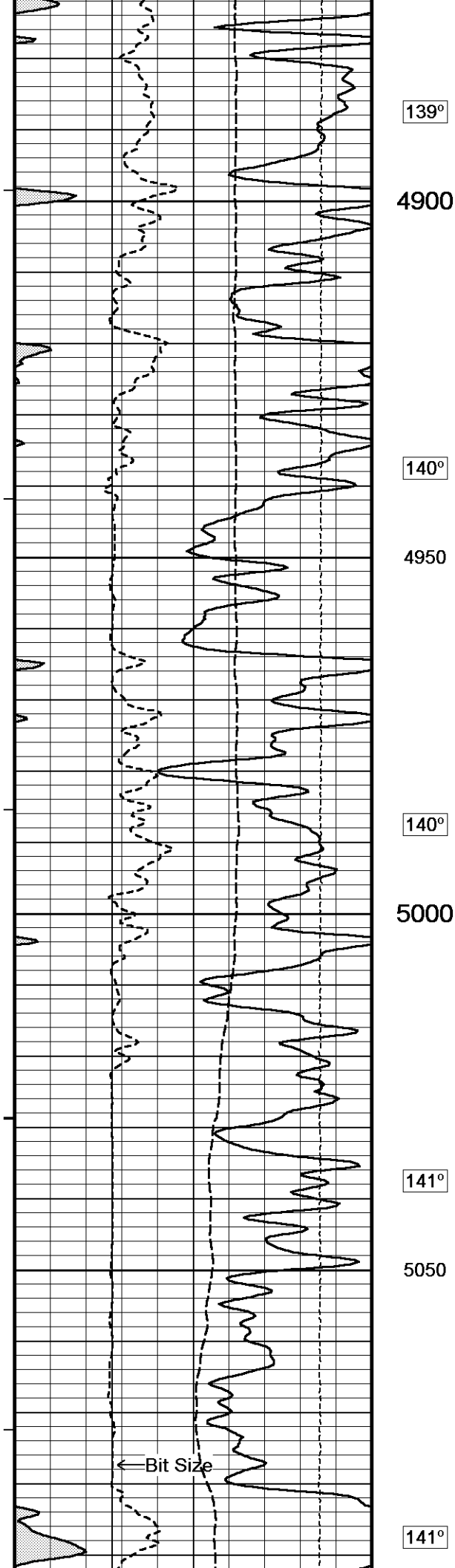
Array Induction - R850

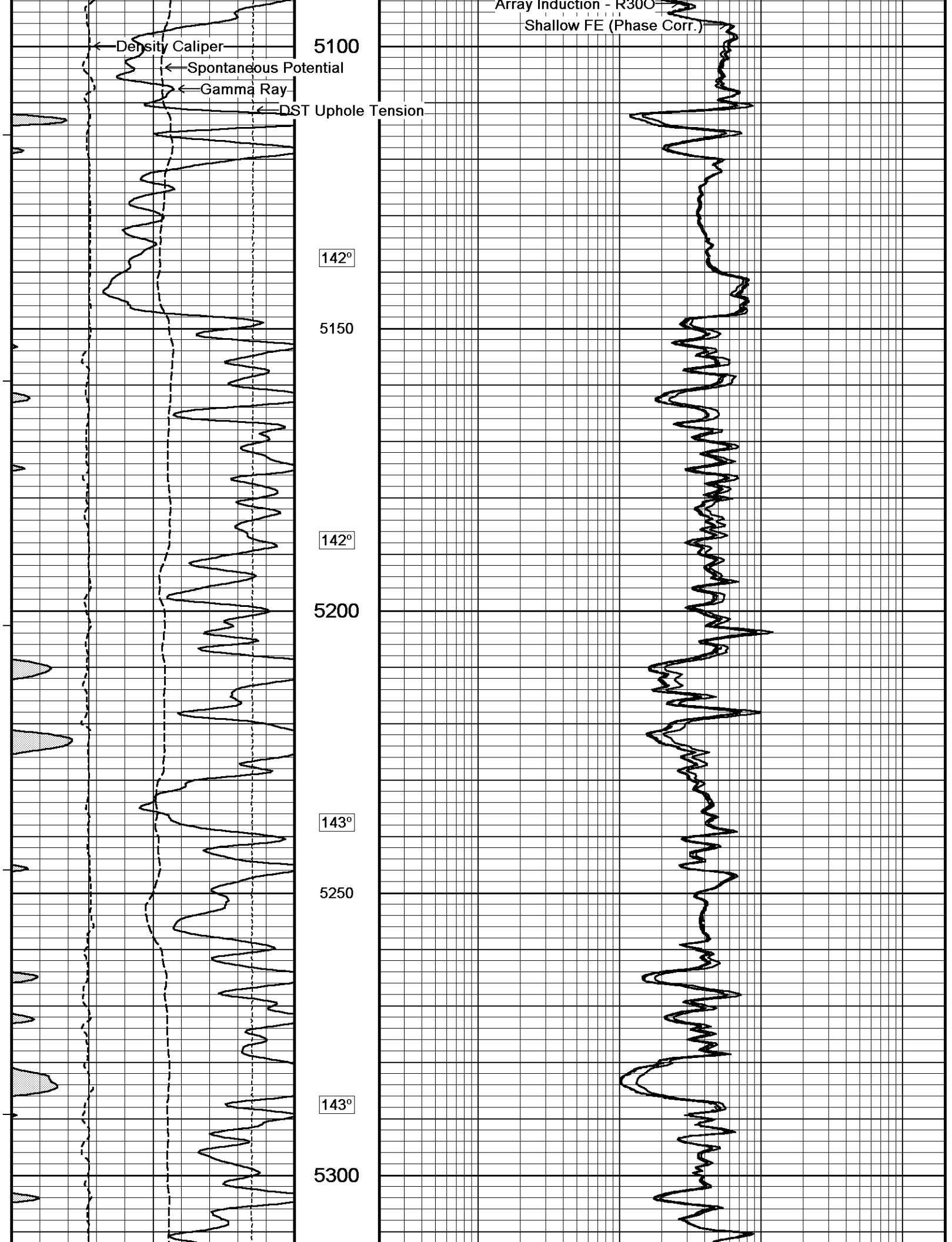
Array Induction - R600

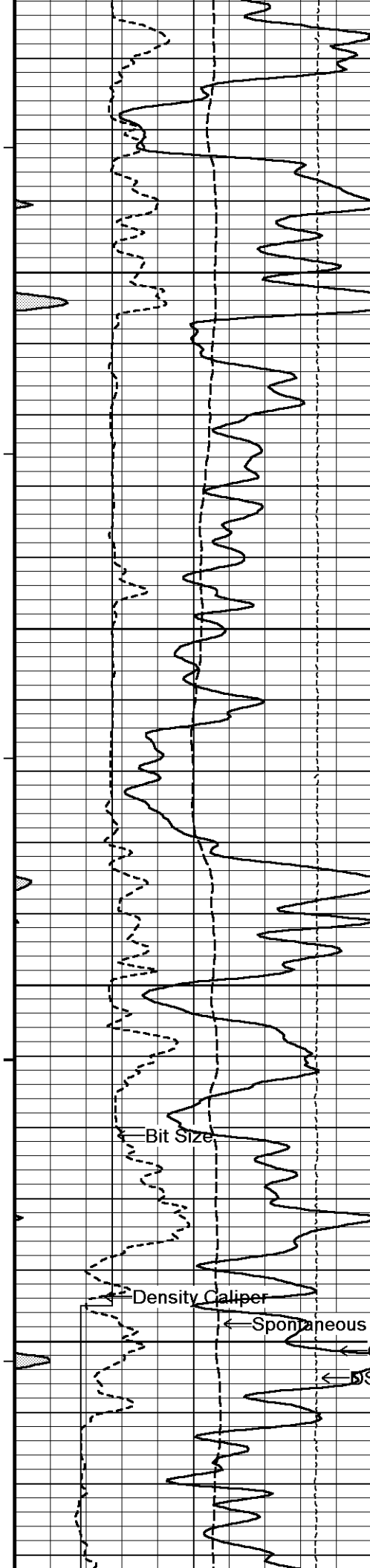
Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr.)







144°

5350

145°

5400

145°

5450

146°

5500

Bit Size

Density Caliper

Spontaneous Potential

Gamma Ray

DST Uphole Tension

Array Ind. One Res Rt

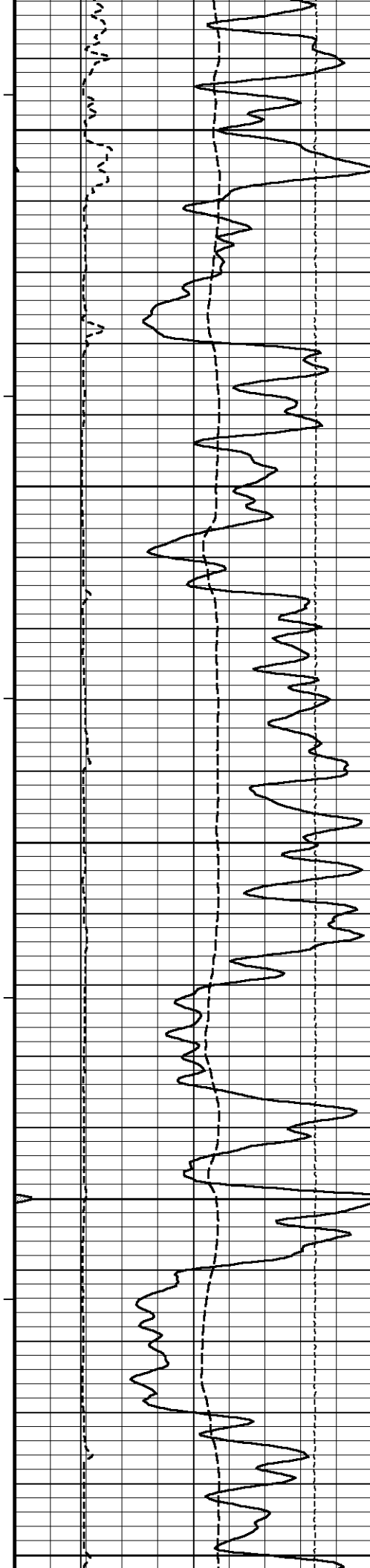
Array Induction - R850

Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr)



146°

5550

147°

5600

148°

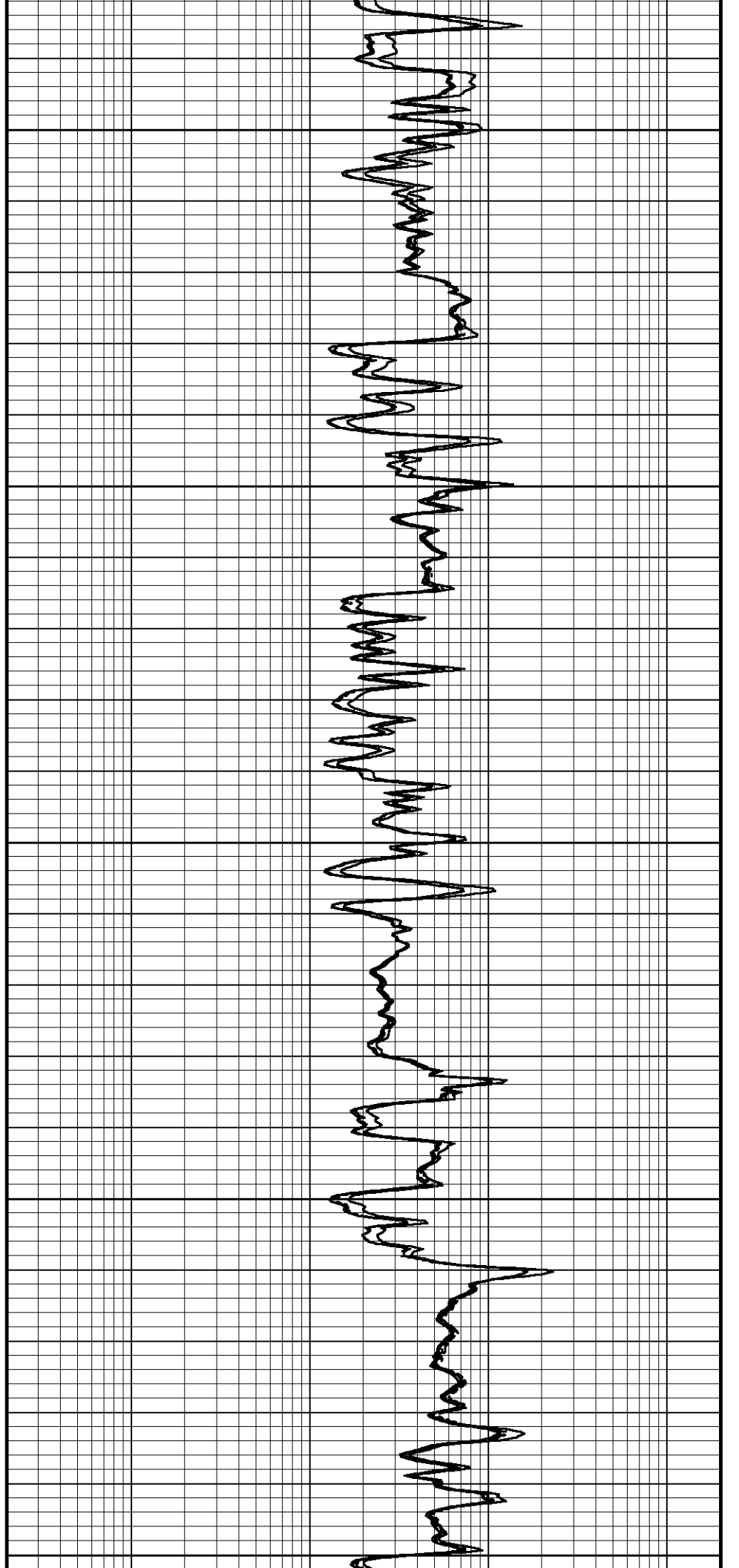
5650

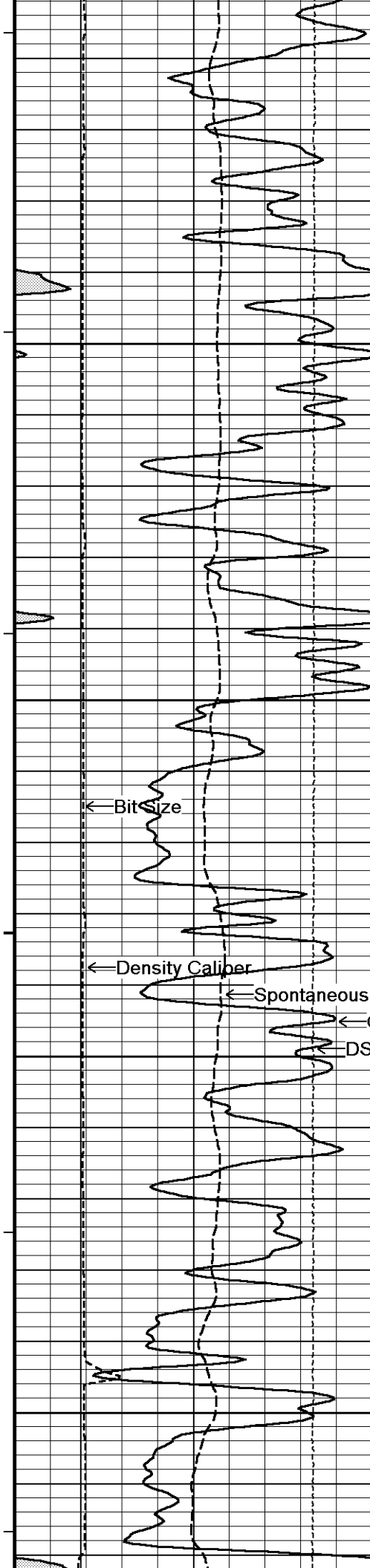
149°

5700

150°

5750





150°

5800

151°

5850

← Bit Size

← Density Caliper

← Spontaneous Potential

← Gamma Ray

← DST

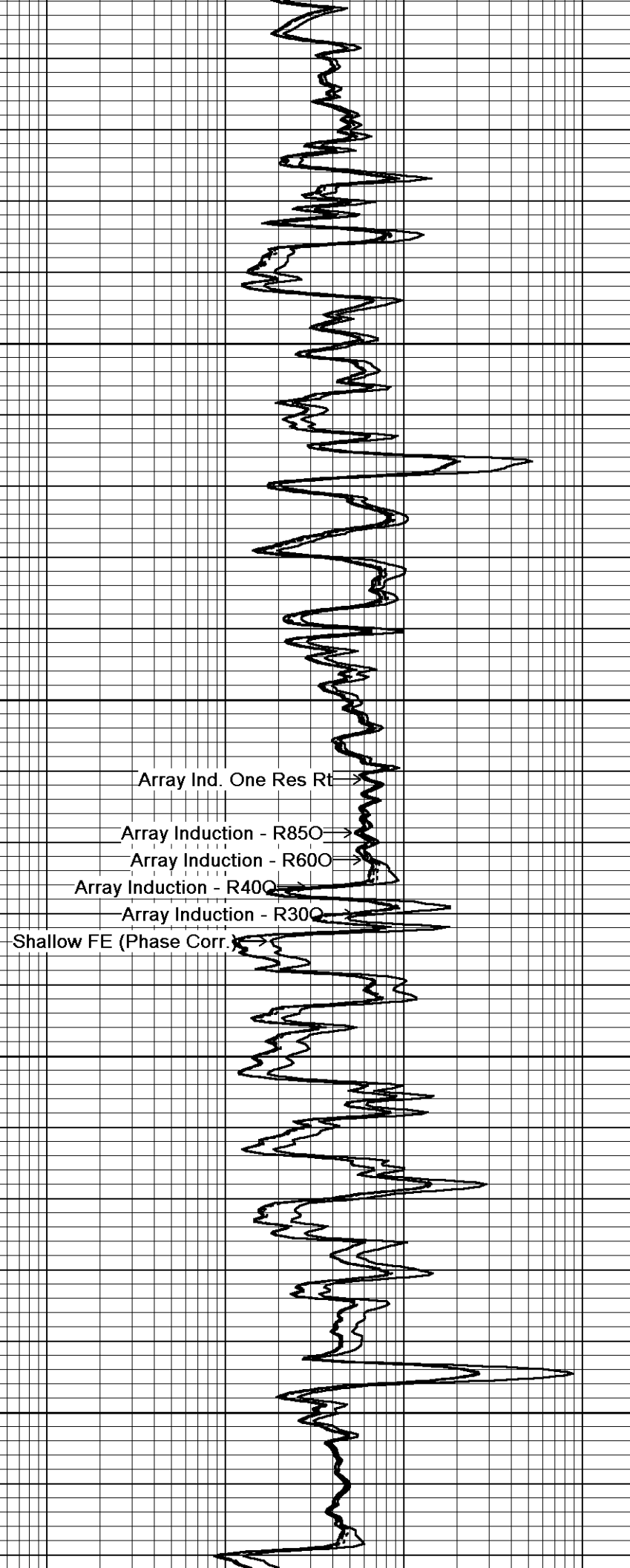
151°

5900

152°

5950

Tension



Array Ind. One Res Rt

Array Induction - R850

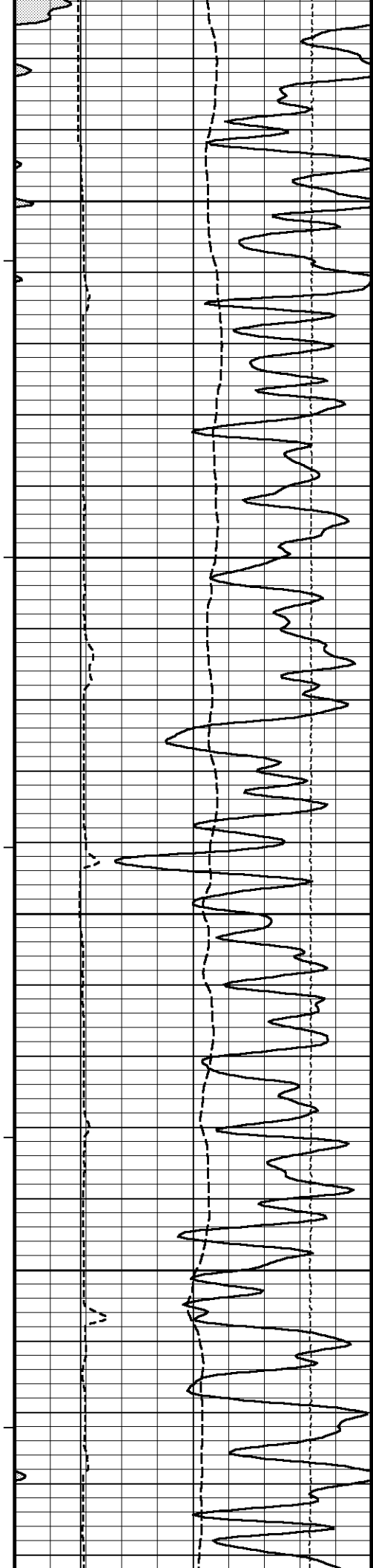
Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr.)





153°

6000

154°

6050

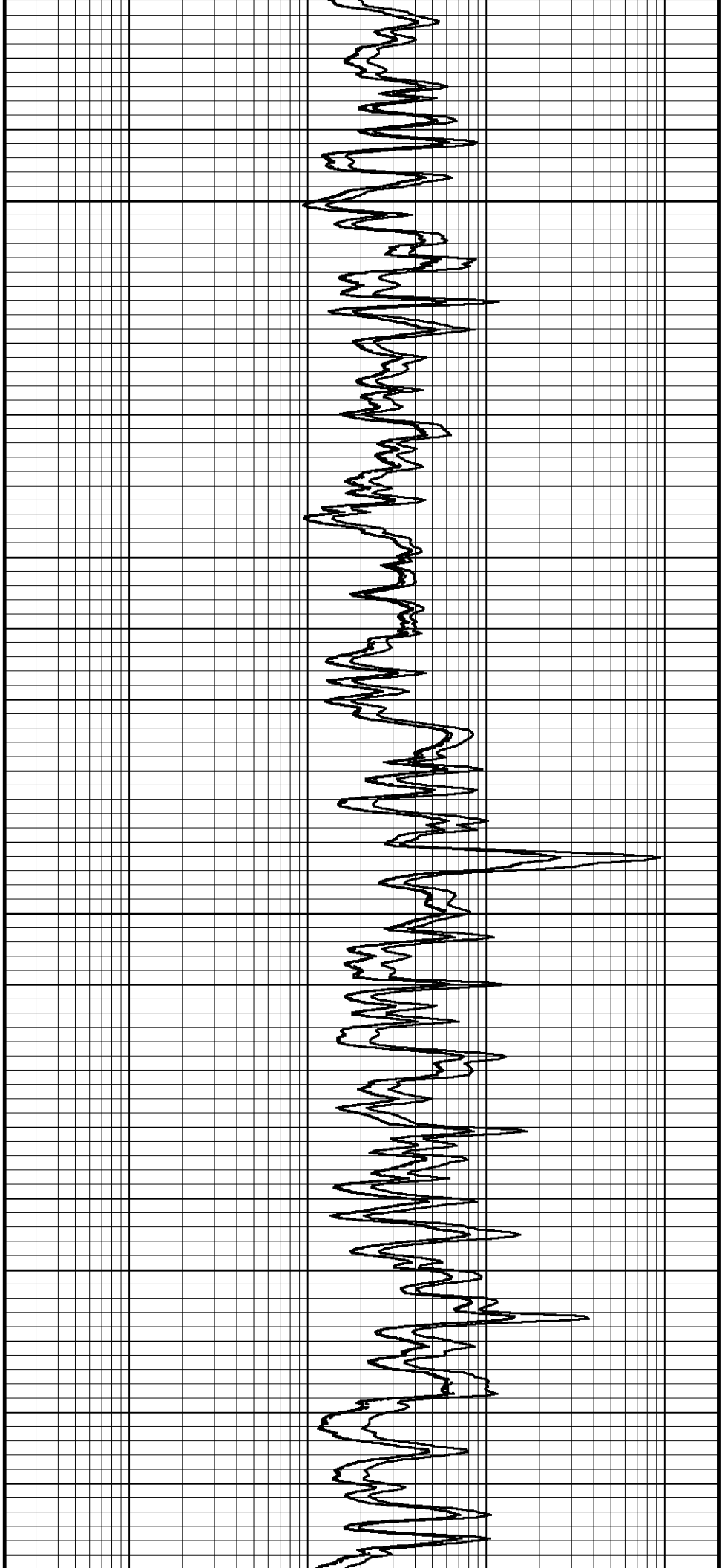
154°

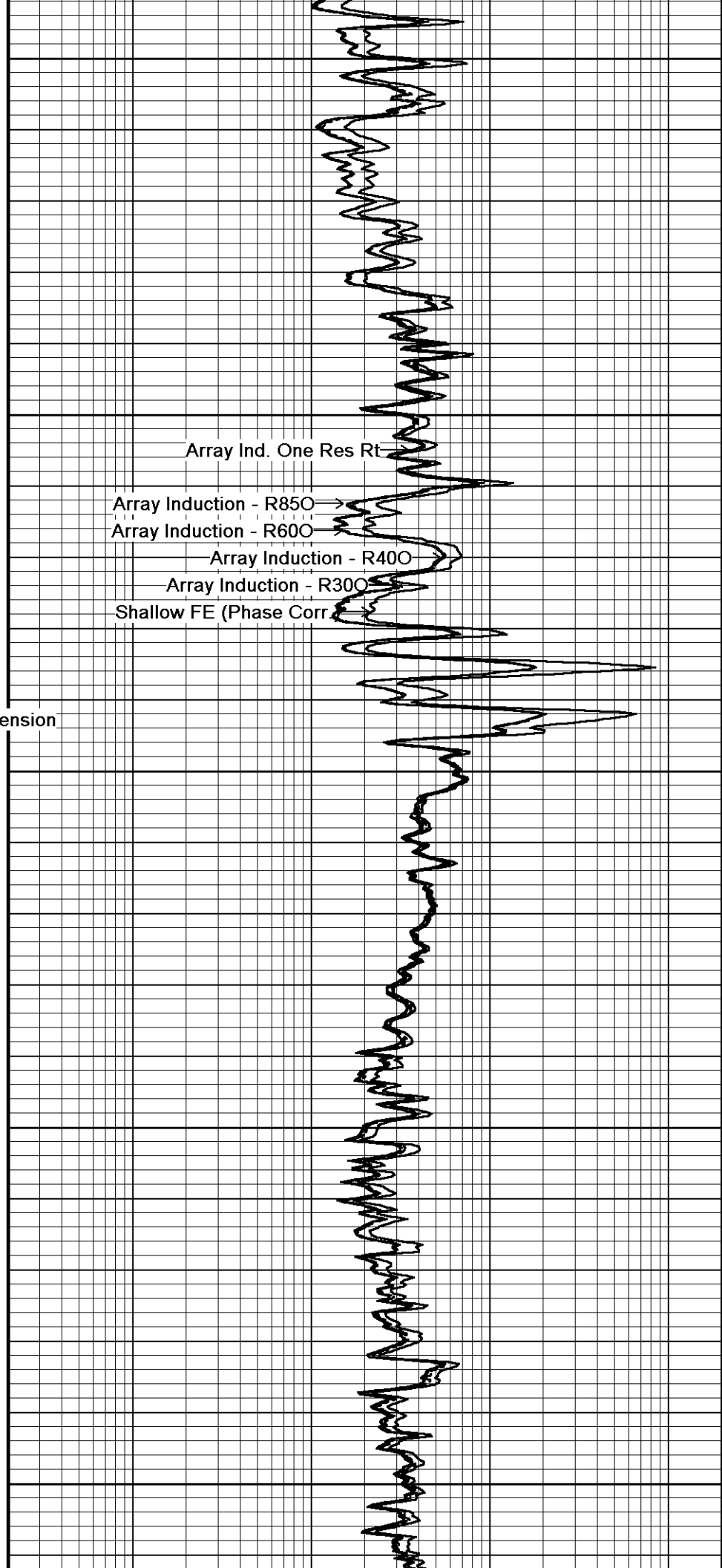
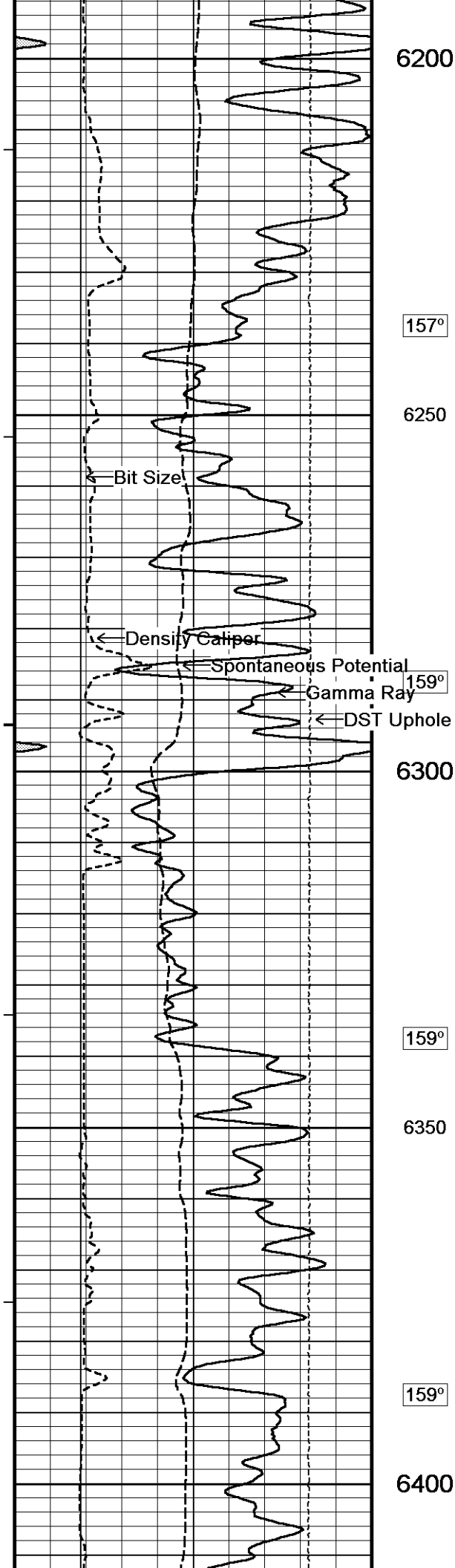
6100

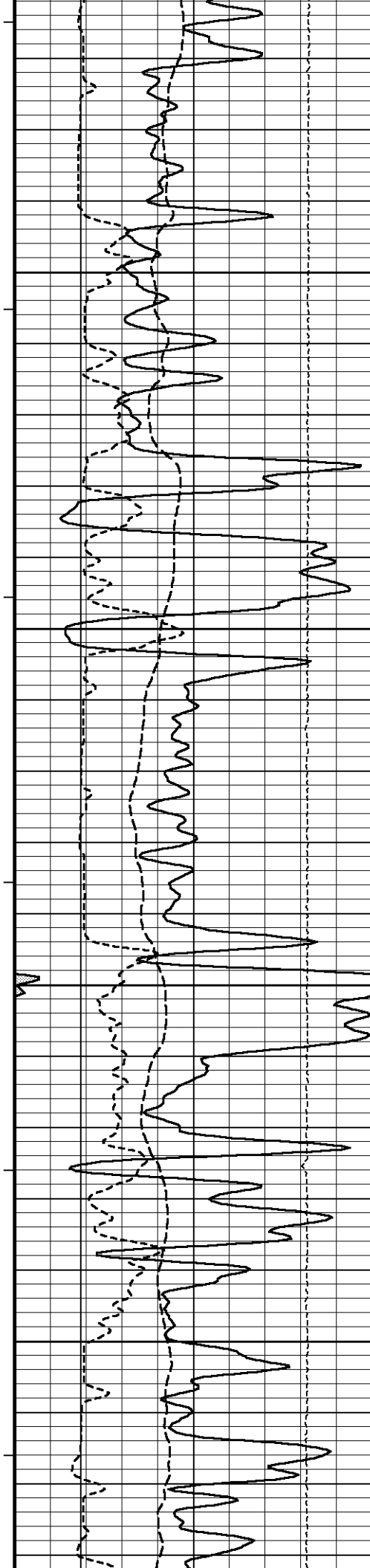
155°

6150

155°







159°

6450

160°

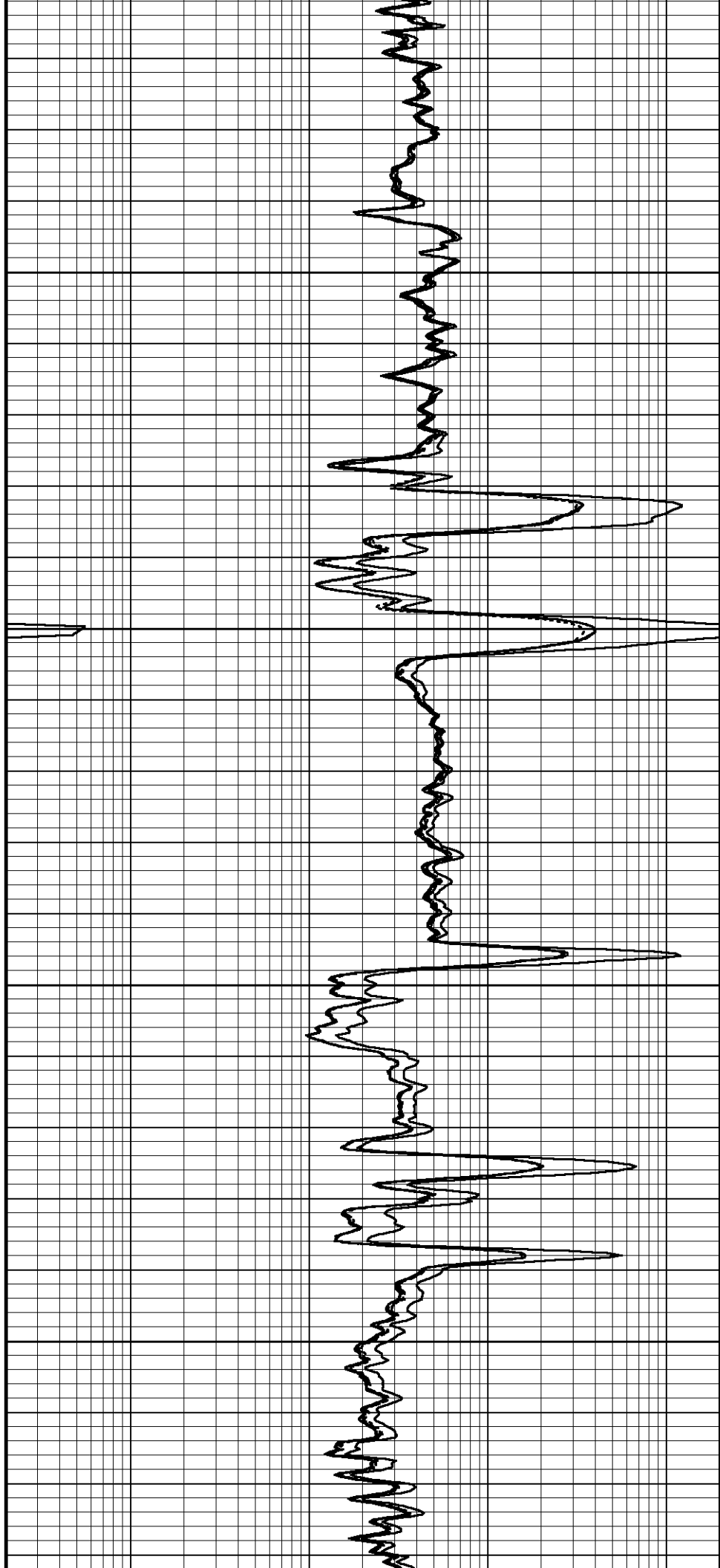
6500

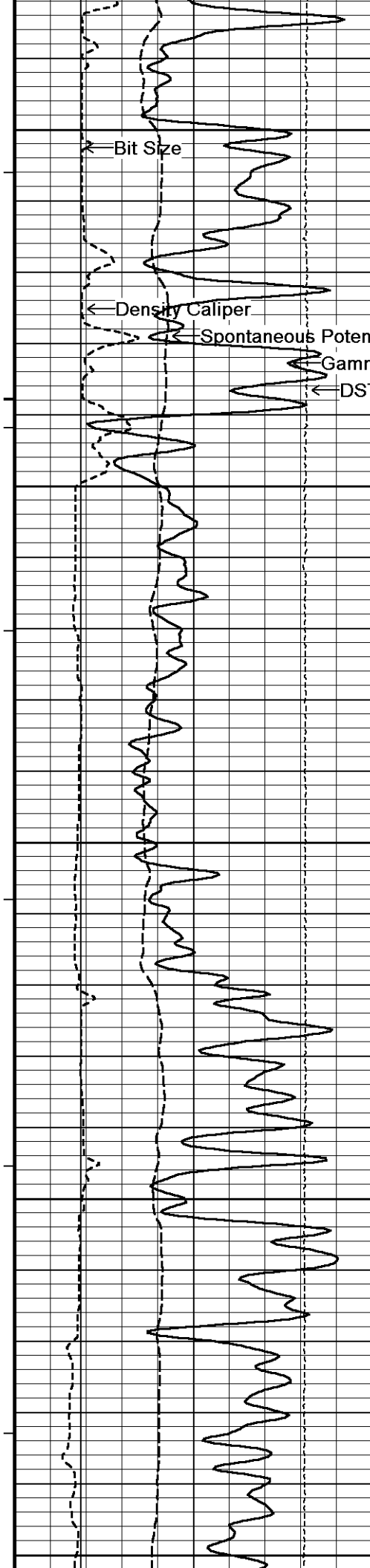
161°

6550

163°

6600





163°

6650

163°

6700

165°

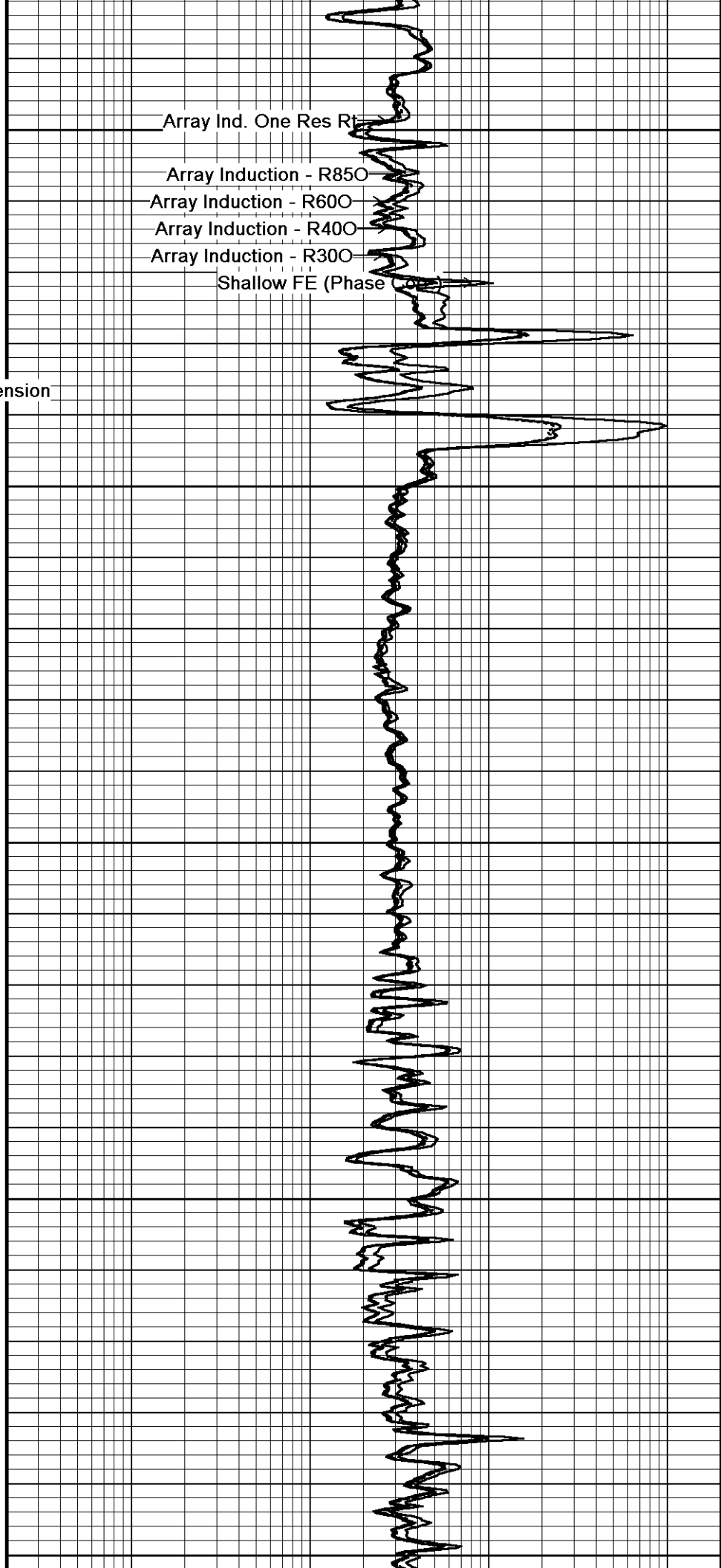
6750

164°

6800

164°

6850



Array Ind. One Res Rt

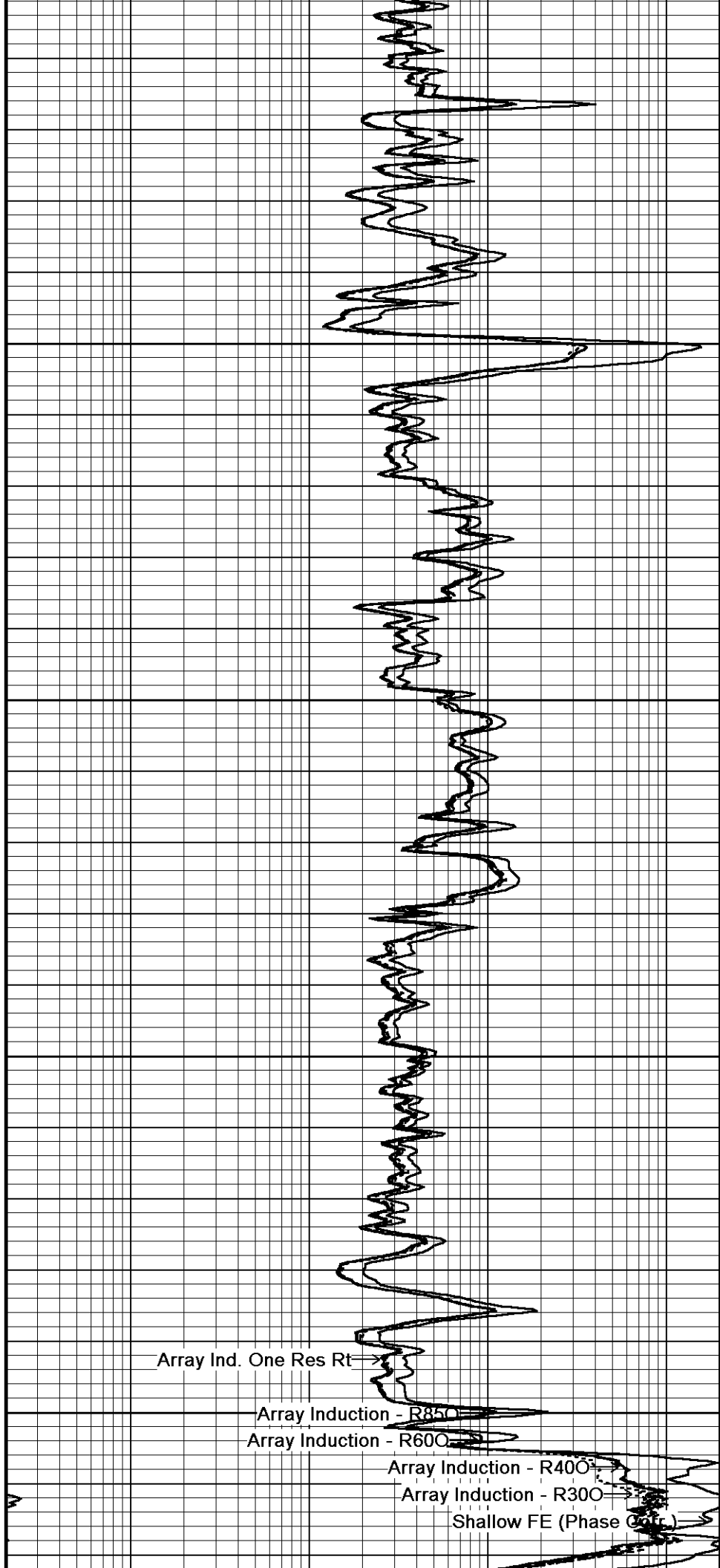
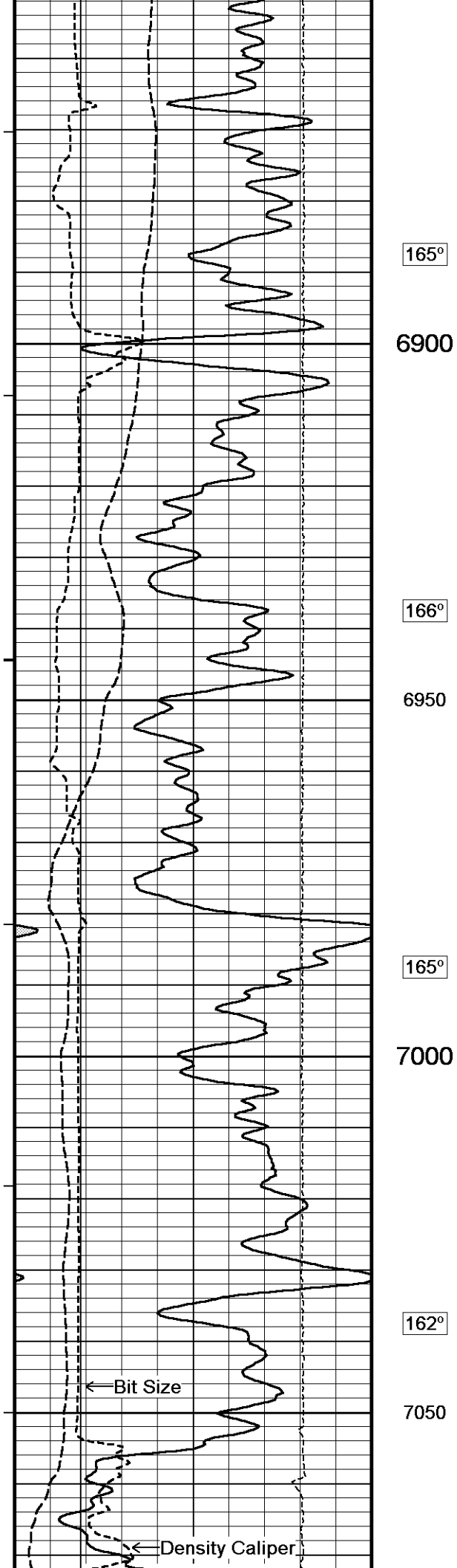
Array Induction - R850

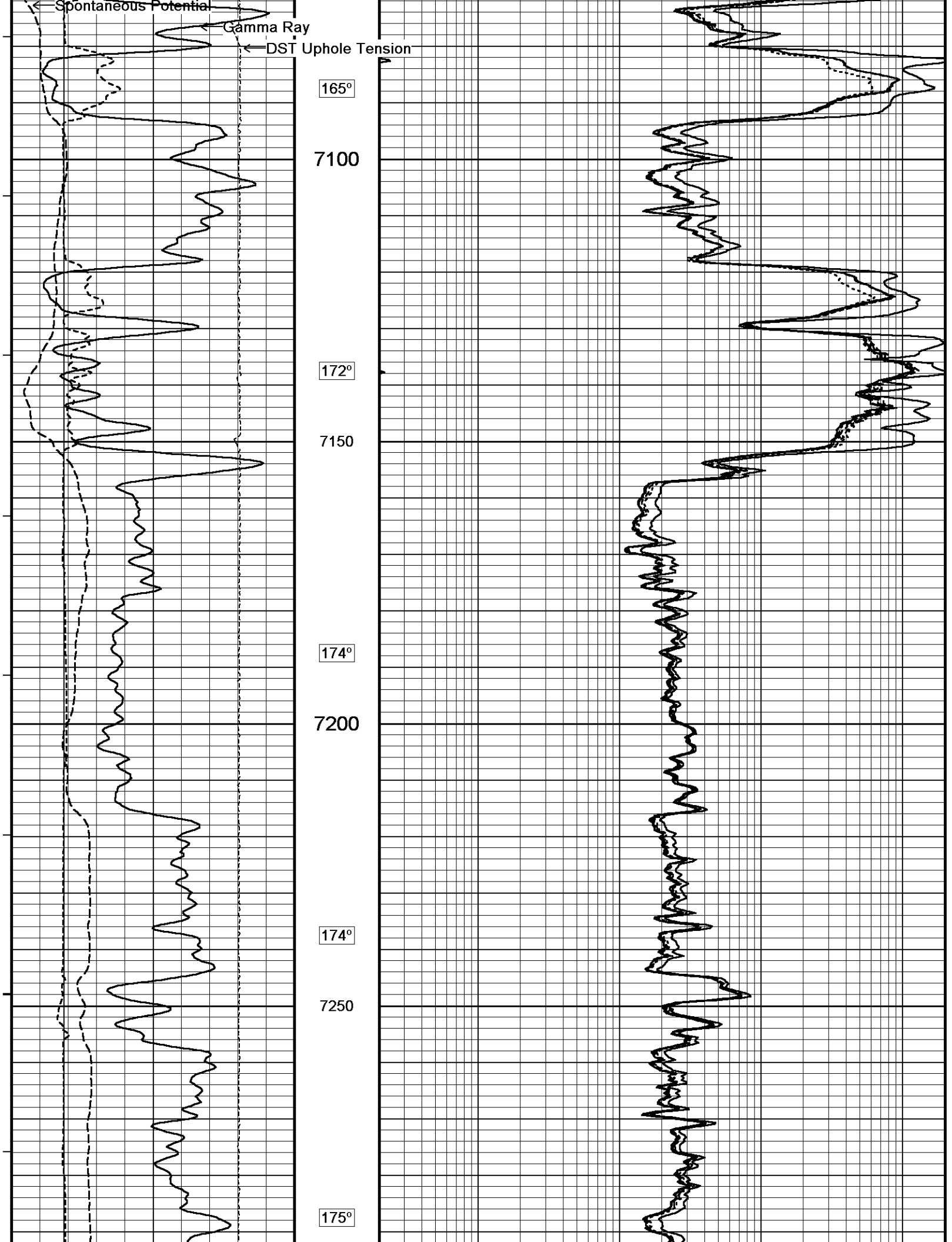
Array Induction - R600

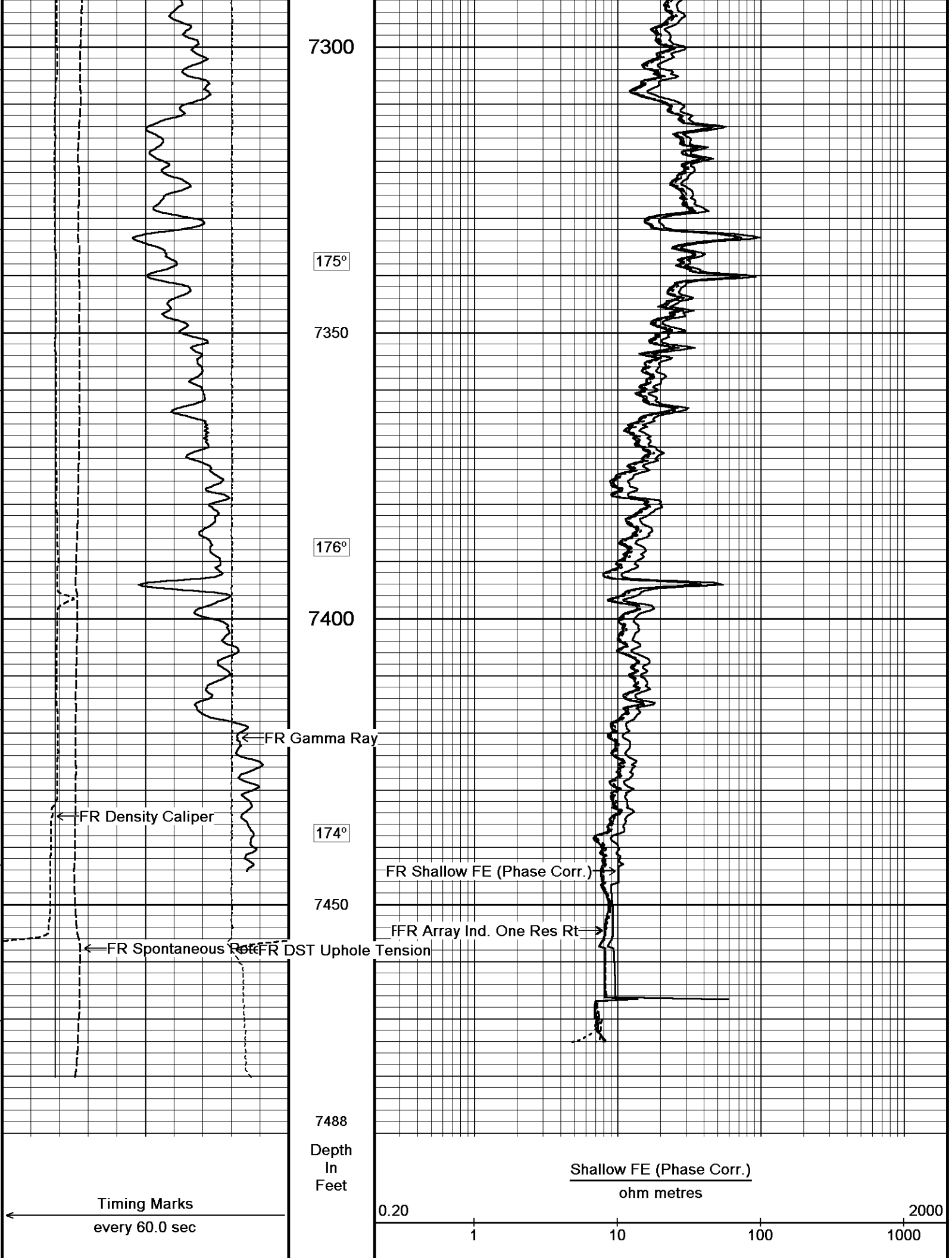
Array Induction - R400

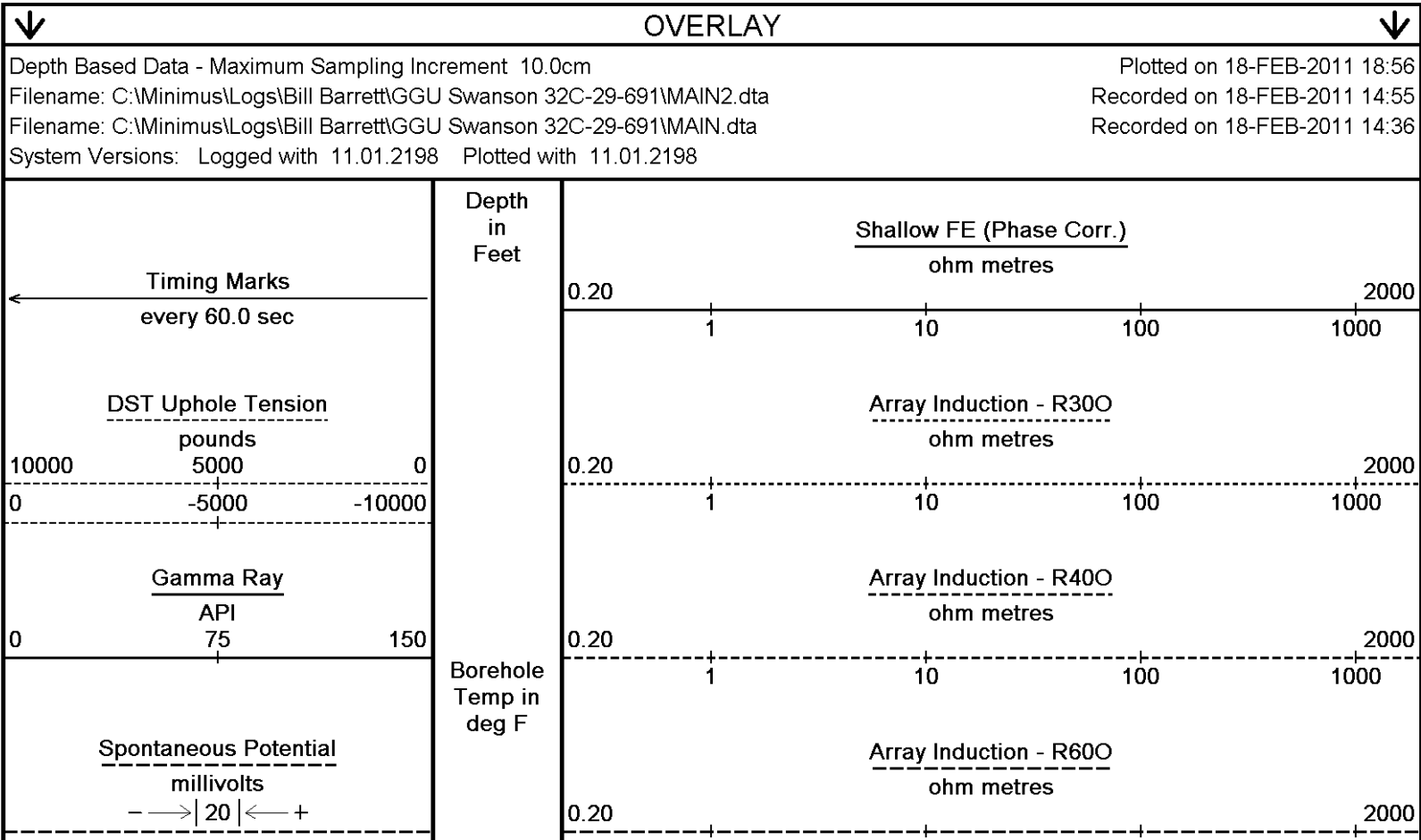
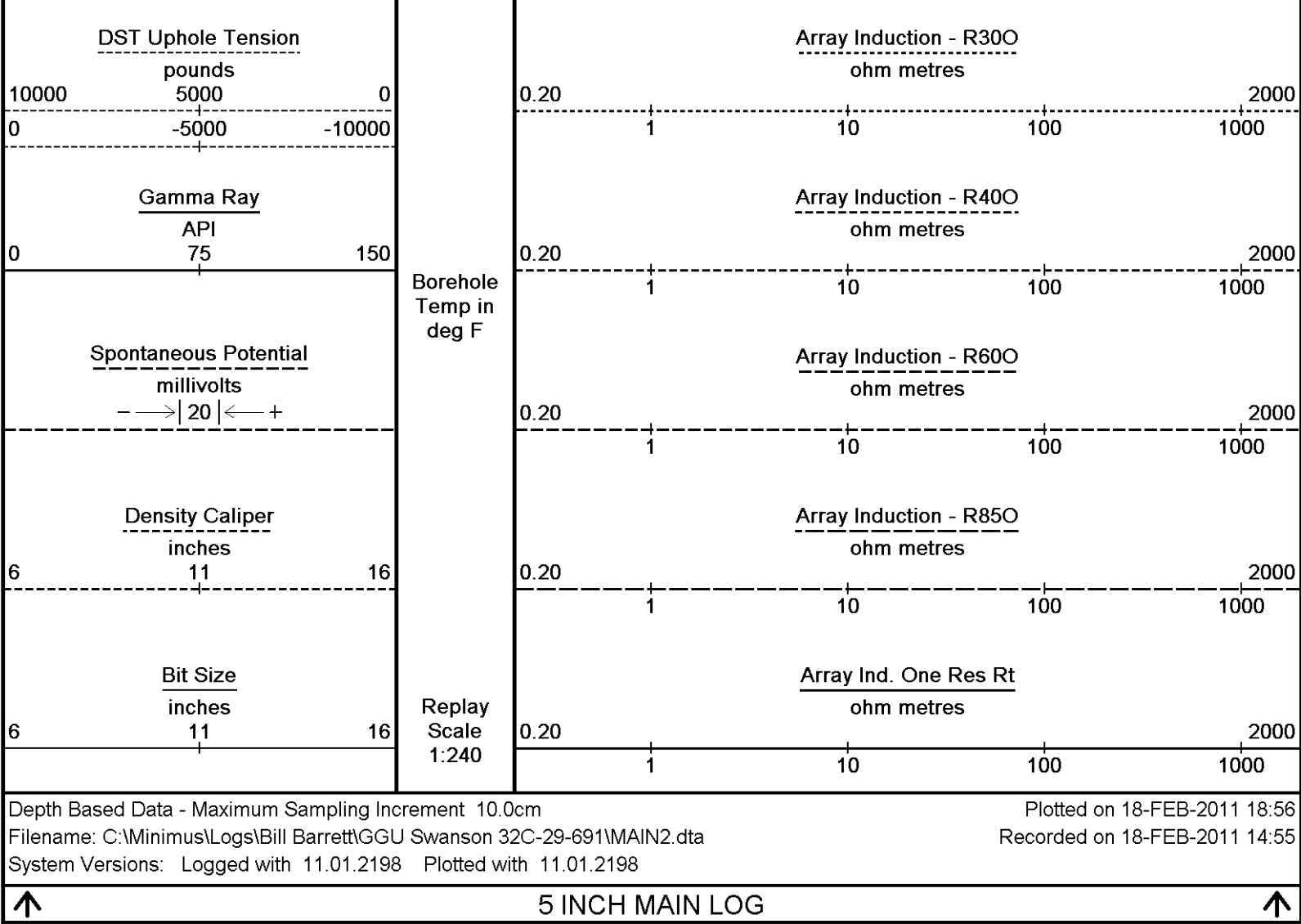
Array Induction - R300

Shallow FE (Phase)

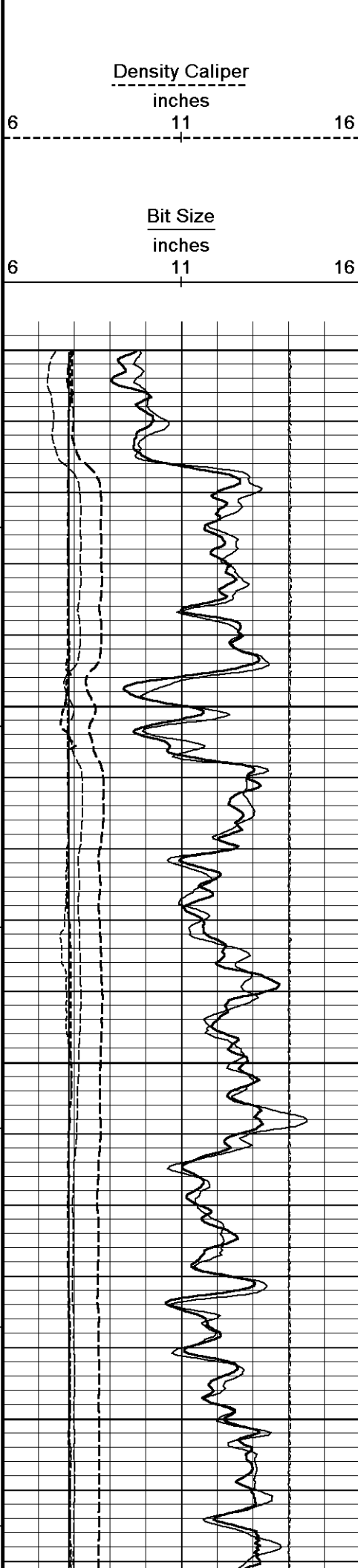












Replay  
Scale  
1:240

7200

174°

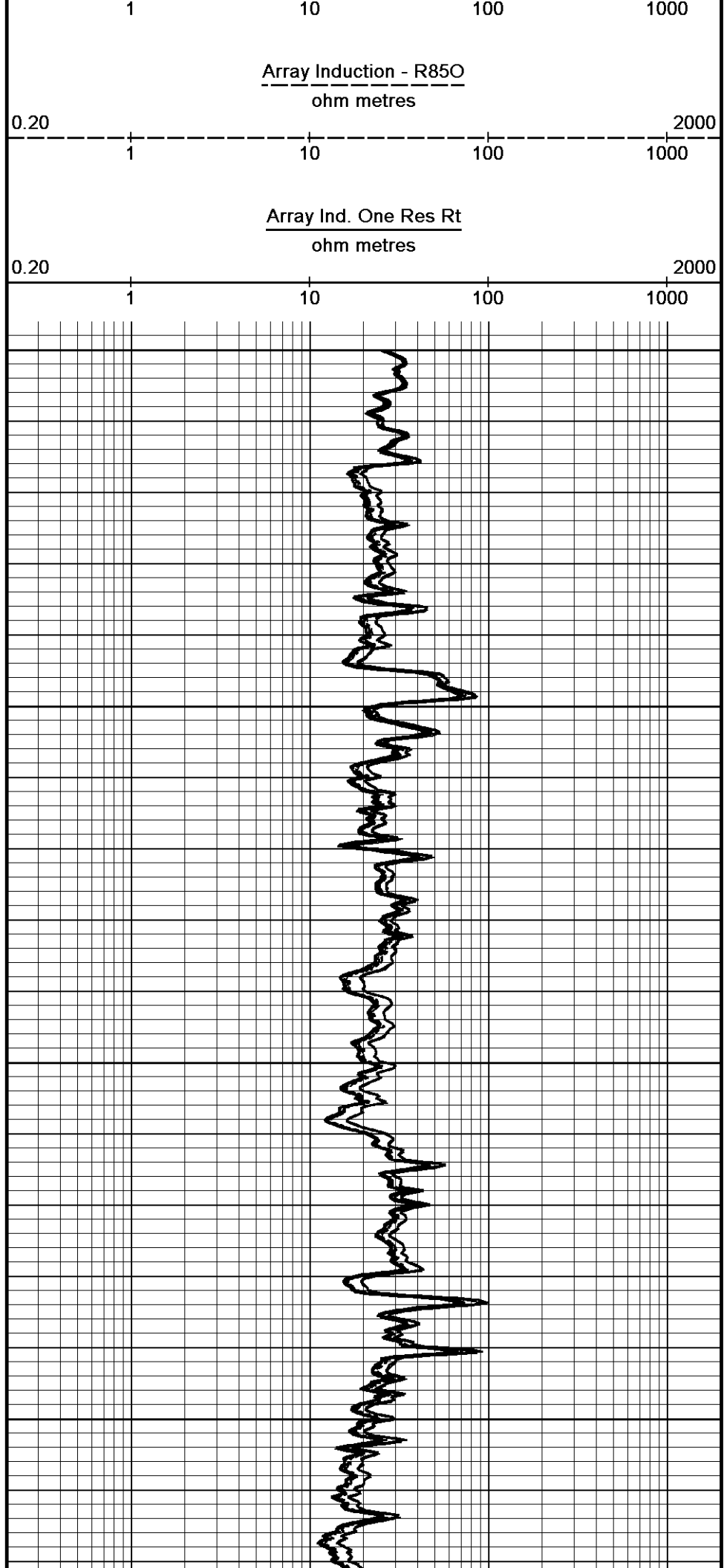
7250

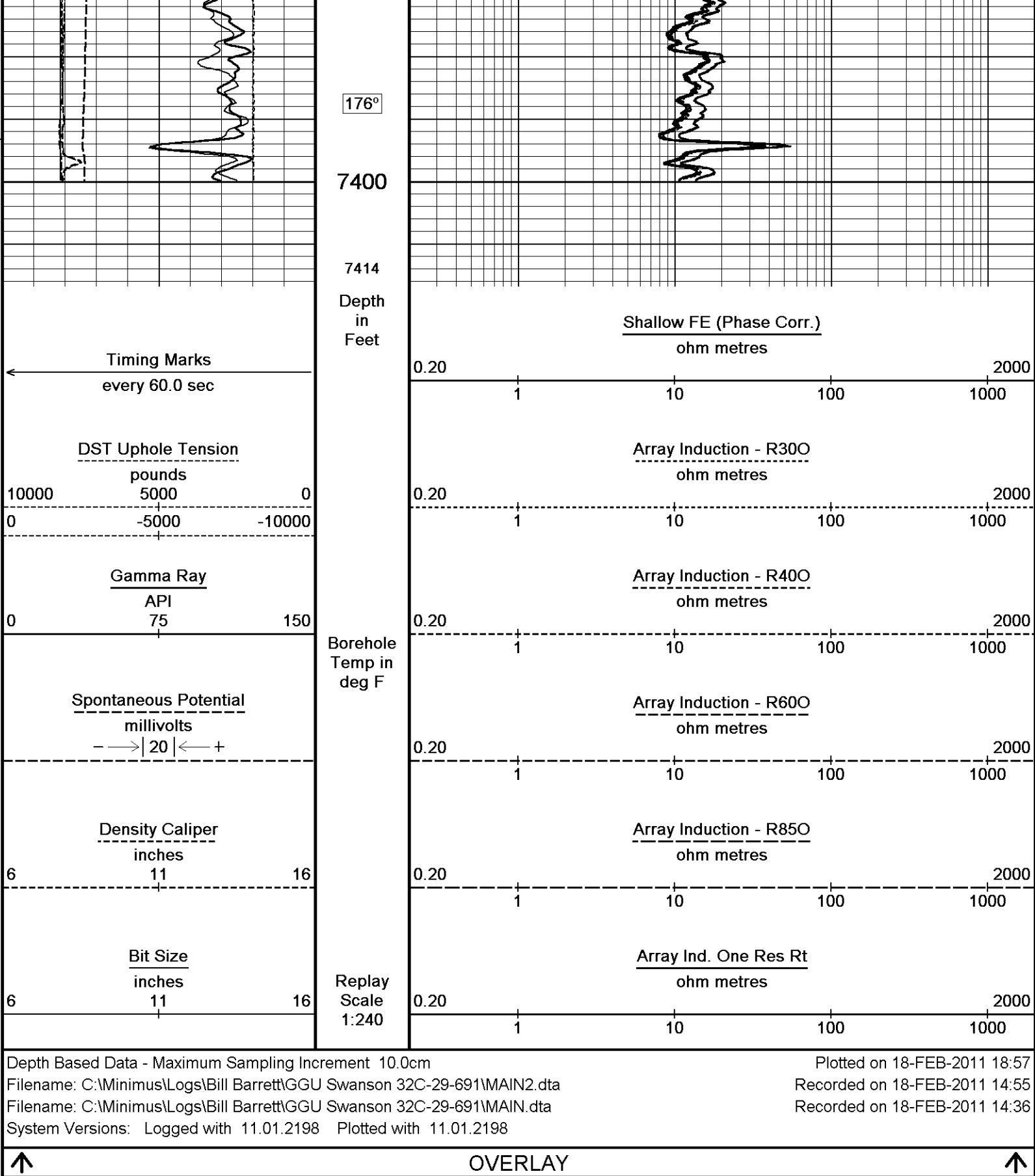
175°

7300

175°

7350





BEFORE SURVEY CALIBRATION			C:\Minimus\Logs\Bill Barrett\GGU Swanson 32C-29-691\MAIN2.dta
General Constants All 000		Last Edited on 18-FEB-2011,12:59	
General Parameters			
Mud Resistivity	3.000	ohm-metres	
Mud Resistivity Temperature	70.000	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		
Reading No	Measured	Calibrated (lbs)
1	16198.74	0.00
2	17175.81	360.00
Field Calibration on 18-FEB-2011 12:57		
High Resolution Temperature Calibration MCG-C 192		
	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00
Field Calibration on 18-FEB-2011,09:26		
High Resolution Temperature Constants MCG-C 192		
Last Edited on 13-DEC-2010,09:50		
Pre-filter Length	11	
SP Calibration MCG-C 192		
	Measured	Calibrated (mV)
Reference 1	100.9	100.0
Reference 2	-100.2	-100.0
Field Calibration on 18-FEB-2011,09:12		
Gamma Calibration MCG-C 192		
	Measured	Calibrated (API)
Background	98	67
Calibrator (Gross)	1434	979
Calibrator (Net)	1336	912
Field Calibration on 18-FEB-2011 09:12		
Gamma Constants MCG-C 192		
Last Edited on 12-FEB-2011,12:54		
Gamma Calibrator Number	GRC-072	
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		
	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)
		1295 1967
Ratio		0.658
Neutron Constants MDN-A.B 160		
Last Edited on 18-FEB-2011,18:44		
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 18-FEB-2011 09:22
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 18-FEB-2011,17:56
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 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 20-NOV-2010,09:51	
				Field Check on 18-FEB-2011 09:25	
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	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	0.0	0.0	12.1	3929.9	
2	0.0	0.0	29.6	3535.8	
3	0.0	0.0	28.5	3110.6	
4	0.0	0.0	18.8	2094.3	
Deep	0.0	0.0	17.1	2075.6	
Medium	0.0	0.0	42.3	4083.8	
Shallow	0.0	0.0	44.5	5153.6	
Array Temperature		0.0	42.2	Deg F	

Induction Constants MAI-B.A 213		Last Edited on 18-FEB-2011,17:54
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		

#### Caliper Calibration MPD-B 167

Base Calibration on 10-FEB-2011 10:23  
Field Calibration on 18-FEB-2011,09:27

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	18496	4.00
2	27008	5.96
3	34874	7.98
4	43063	9.86
5	52192	11.88
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.98	7.98

#### Photo Density Calibration MPD-B 167

Base Calibration on 13-FEB-2011 15:22  
Field Check on 18-FEB-2011 09:34

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	48677	18603	53115	19186
Reference 2	22687	3043	25020	2536

Field Check at Base	1173.5	1744.9
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Field Check	1168.0	1738.2
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PE Calibration				
Base Calibration		Measured	Calibrated	
	WS	WH	Ratio	Ratio
Background	214	1052		
Reference 1	15293	48508	0.318	0.320

Reference 2      5942      22551      0.266      0.272

Field Check at Base

214.1      1052.3

Field Check

215.2      1048.5

Density Constants MPD-B 167

Last Edited on 18-FEB-2011,10:35

Density Source Id	P50561B	
Nylon Calibrator Number	507	
Aluminium Calibrator Number	507	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.31	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	

## AFTER SURVEY CALIBRATION

C:\Minimus\Logs\Bill Barrett\GGU Swanson 32C-29-691\MAIN2.dta

Gamma Check MCG-C 192

Field Calibration on 18-FEB-2011 09:12  
After Survey Check on 18-FEB-2011 18:44

	Before (API)	After (API)
Background	67	62
Calibrator (Gross)	979	974
Calibrator (Net)	912	912

Neutron Check MDN-A.B 160

Before Survey Check on 18-FEB-2011 09:17  
After Survey Check on 18-FEB-2011 18:49

Near (cps)		Far (cps)		Ratio
Before	After	Before	After	
1295	1322	1967	1963	
		Before	After	
		0.658	0.674	

FE Check MFE-A.A 85

Before Survey Check 18-FEB-2011 09:22  
After Survey Check on 18-FEB-2011 17:57

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

Induction Check MAI-B.A 213

Before Survey Check on 18-FEB-2011 09:25  
After Survey Check on 18-FEB-2011 17:56

Channel	Before Survey (mmho/m)		After Survey (mmho/m)	
	Low	High	Low	High
1	12.1	3929.9	14.3	3935.6
2	29.6	3535.8	30.3	3539.1
3	28.5	3110.6	28.9	3113.5
4	18.8	2094.3	19.1	2096.3
Deep	17.1	2075.6	17.5	2078.0
Medium	42.3	4083.8	42.6	4087.1
Shallow	44.5	5153.6	45.6	5158.0

## Photo Density Check MPD-B 167

Before Survey Check on 18-FEB-2011 09:34

After Survey Check on 18-FEB-2011 18:01

## Density Check

	Near		Far	
	Before	After	Before	After
	1168.0	1169.1	1738.2	1746.2

## PE Check

	Before	After
WS	215.2	212.3
WH	1048.5	1042.1

## DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Bill Barrett\GGU Swanson 32C-29-691\MAIN2.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

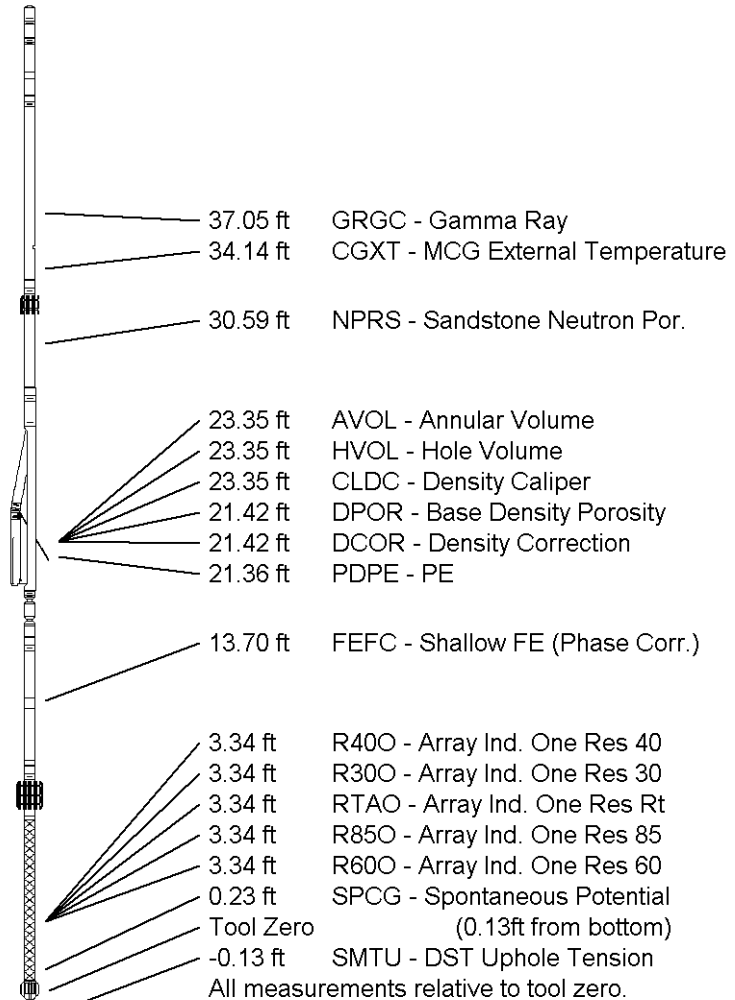
## Compact Focussed Electric

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 32C-29-691

FIELD

GIBSON GULCH

PROVINCE/COUNTY

GARFIELD

COUNTRY/STATE

U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet
Elevation Drill Floor	6126.00	feet
Elevation Ground Level	6104.00	feet

First Reading	7455.00	
Depth Driller	7458.00	feet
Depth Logger	7458.00	feet



ARRAY INDUCTION - RTAP

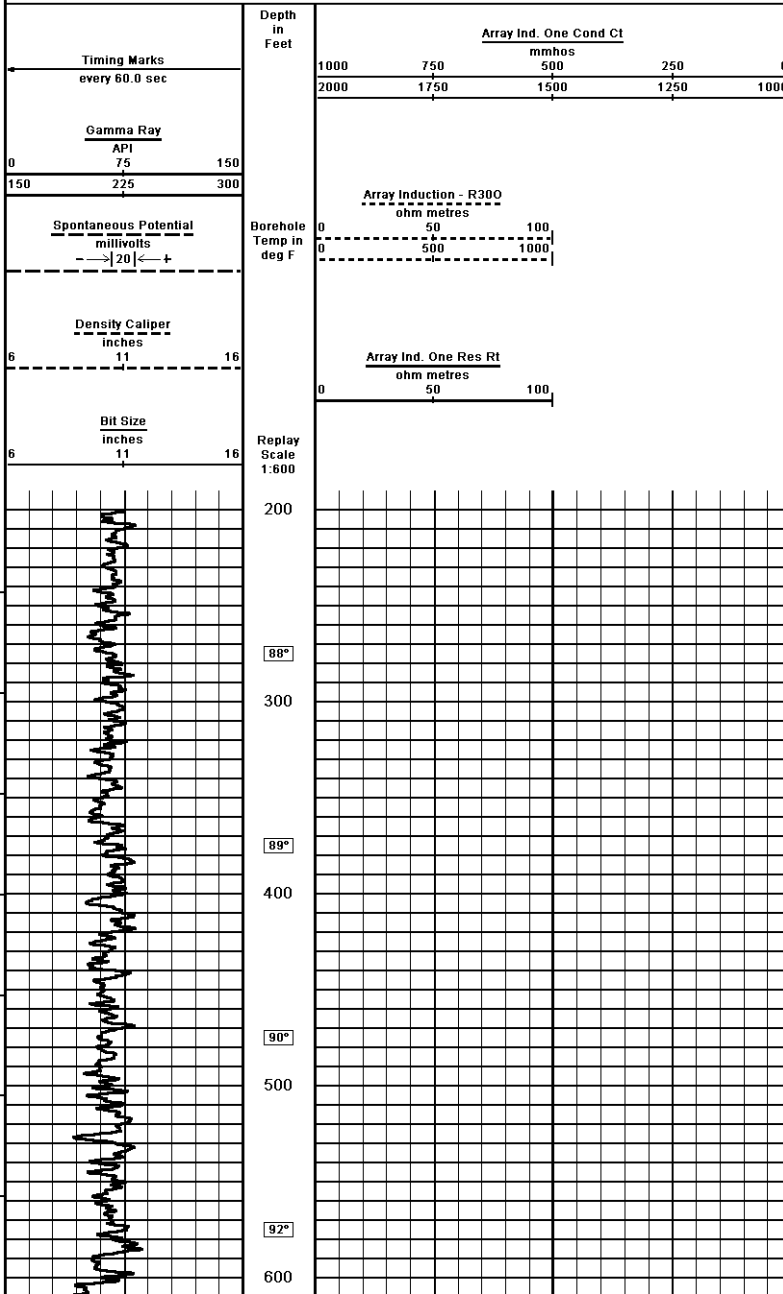


<b>Weatherford</b>		<b>ARRAY INDUCTION - RTAP SHALLOW FOCUSED ELECTRIC LOG</b>	
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION		BILL BARRETT CORPORATION GGU SWANSON 32C-29-691 GIBSON GULCH GARFIELD U.S.A. / COLORADO SHL: 1227' FNL & 1327' FEL BHL: 1800' FNL & 1900' FEL	
LOG NUMBER 05-045-1937	DATE 18-FEB-2011	TIME 18:57	LOG MEASURED FROM 18-FEB-2011
PERMANENT DATUM Elevation 6104 feet Log Measured From 18' @ 23' above Permanent Datum Casing Measured From KB	TEMPERATURES DB PB GB	6127.00 6128.00 6104.00	
Run Number ONE	Depth Driller 7455.00	feet	
Depth Logger 7455.00	feet		
First Reading 7455.00	feet		
Last Reading 200.00	feet		
Casing Driller 766.00	feet		
Bit Size 7.880	inches		
Flow Fluid Type LSND	inches		
Density/Viscosity 11.00 lb/USg	46.00 CP		
PH / Fluid Loss 10.90	7.20 m3/10min		
Sample Source FLOW LINE			
Rmt @ Measured Temp 310 @ 70.0	ohm-m		
Rmt @ Measured Temp 248 @ 70.0	ohm-m		
Rmt @ Measured Temp 372 @ 70.0	ohm-m		
Source Rmt / Rinc CALC	ohm-m		
Rmt @ BHT 1.26 @ 176.0	ohm-m		
Time Since Circulation 6 HOURS	deg F		
Max Recorded Temp 176.00	deg F		
Equipment Name COMPACT			
Equipment Base 13173	deg F		
Recorded By JGARCIA			
Witnessed By C.CROW			

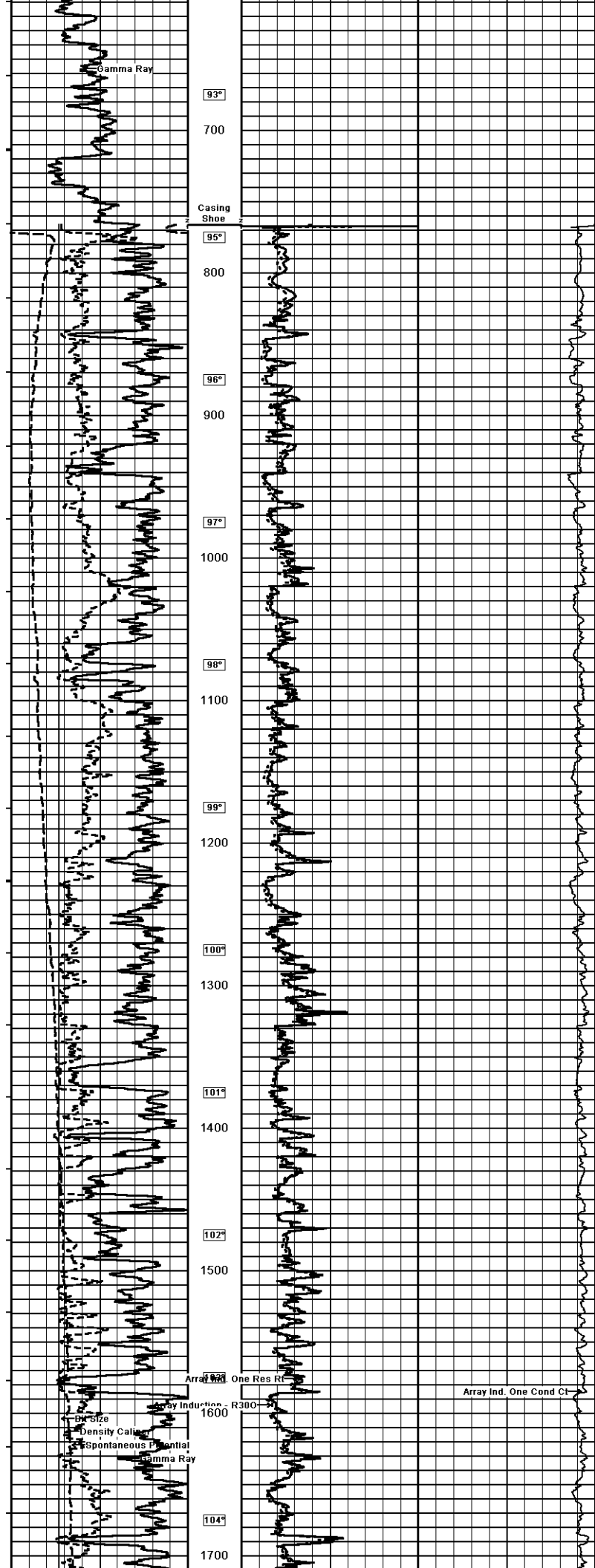
1 INCH MAIN LOG

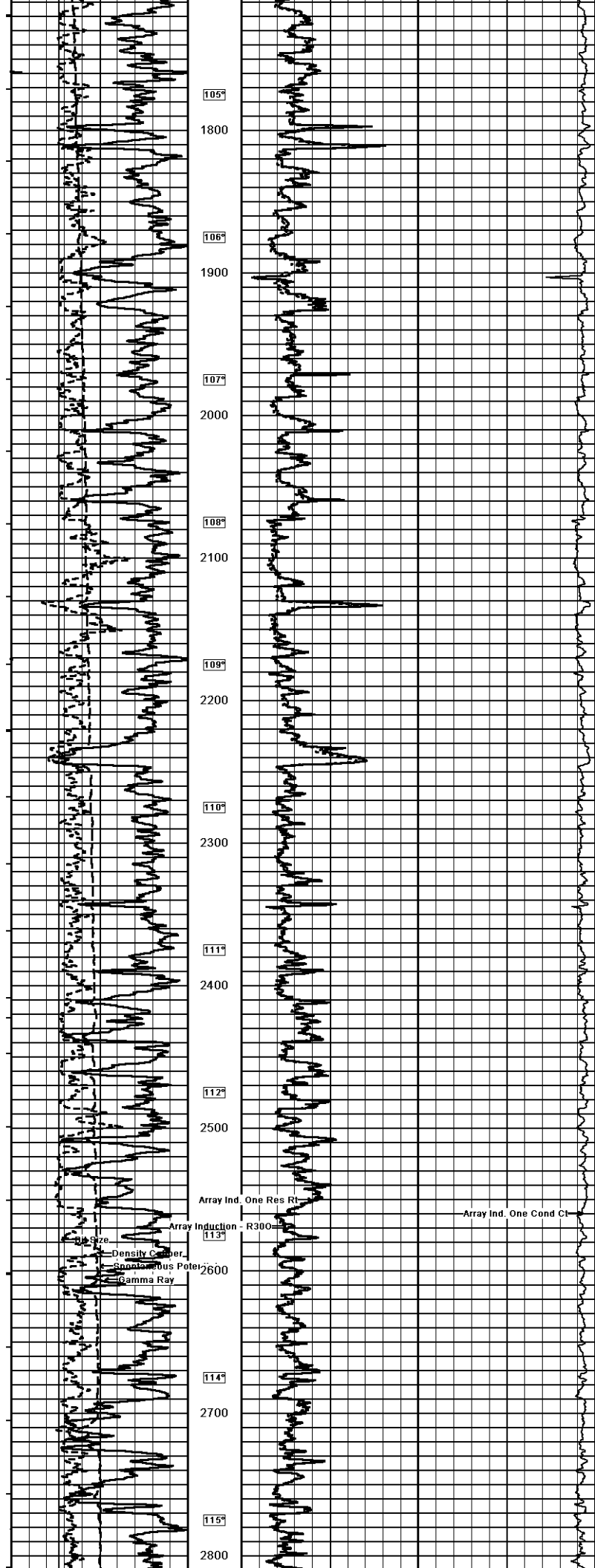
Depth Based Data - Maximum Sampling Increment: 10.0cm  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32C-29-691\MAIN2.dta  
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

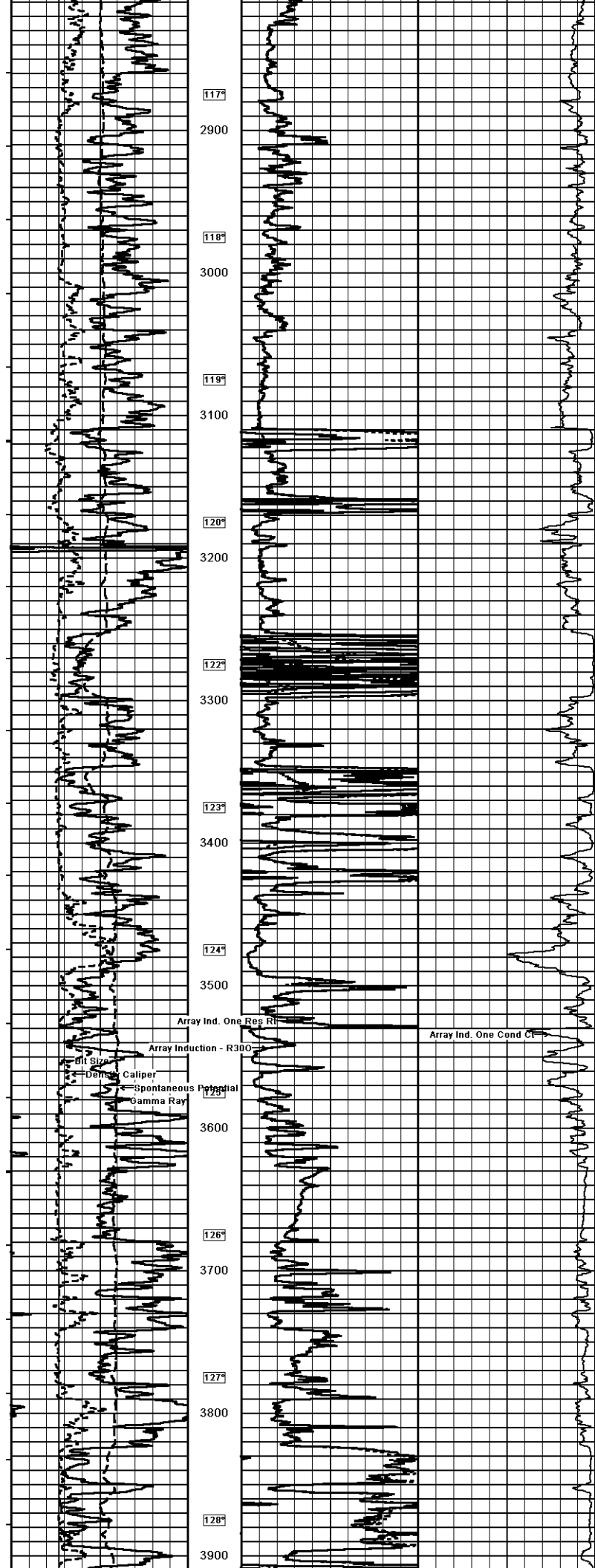
Plotted on 18-FEB-2011 18:57  
 Recorded on 18-FEB-2011 14:55











117

2900

118

3000

119

3100

120

3200

122

3300

123

3400

124

3500

Array Ind. One Res Rt

Array Induction - R300

Array Ind. One Cond Ct

Bit Size

Density Caliper

Spontaneous Potential

Gamma Ray

125

3600

126

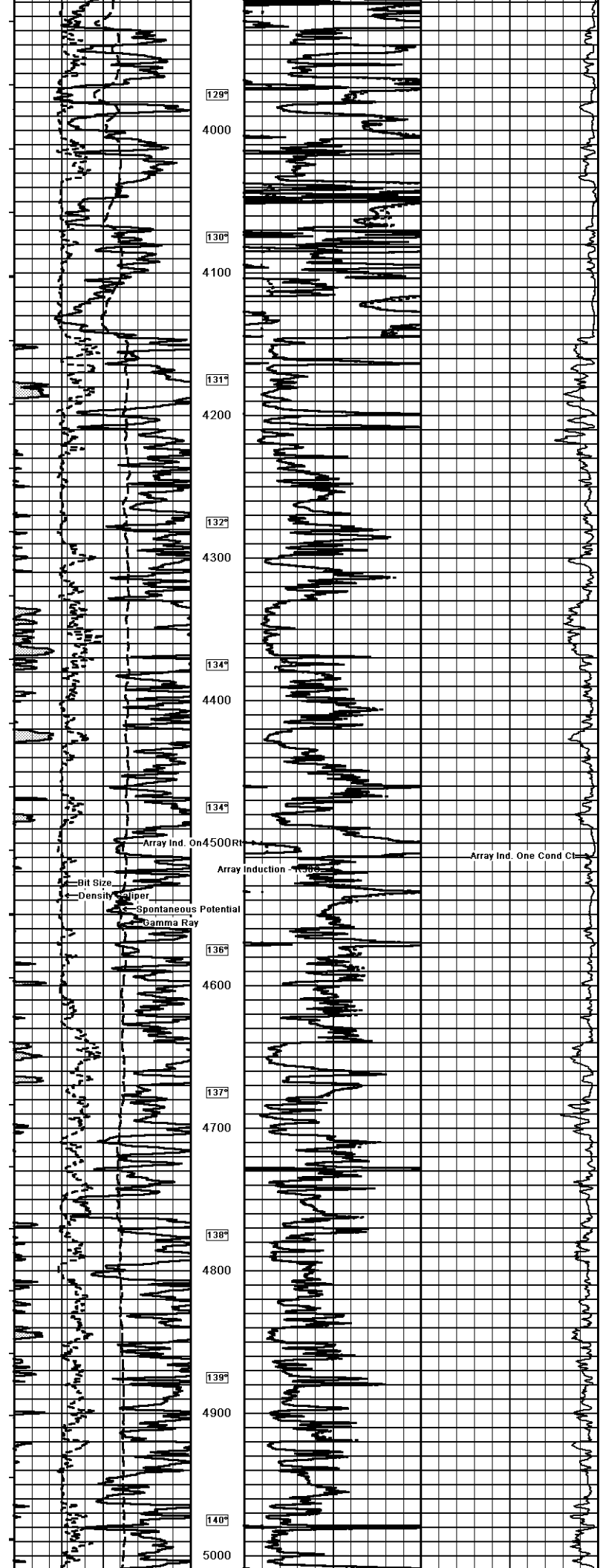
3700

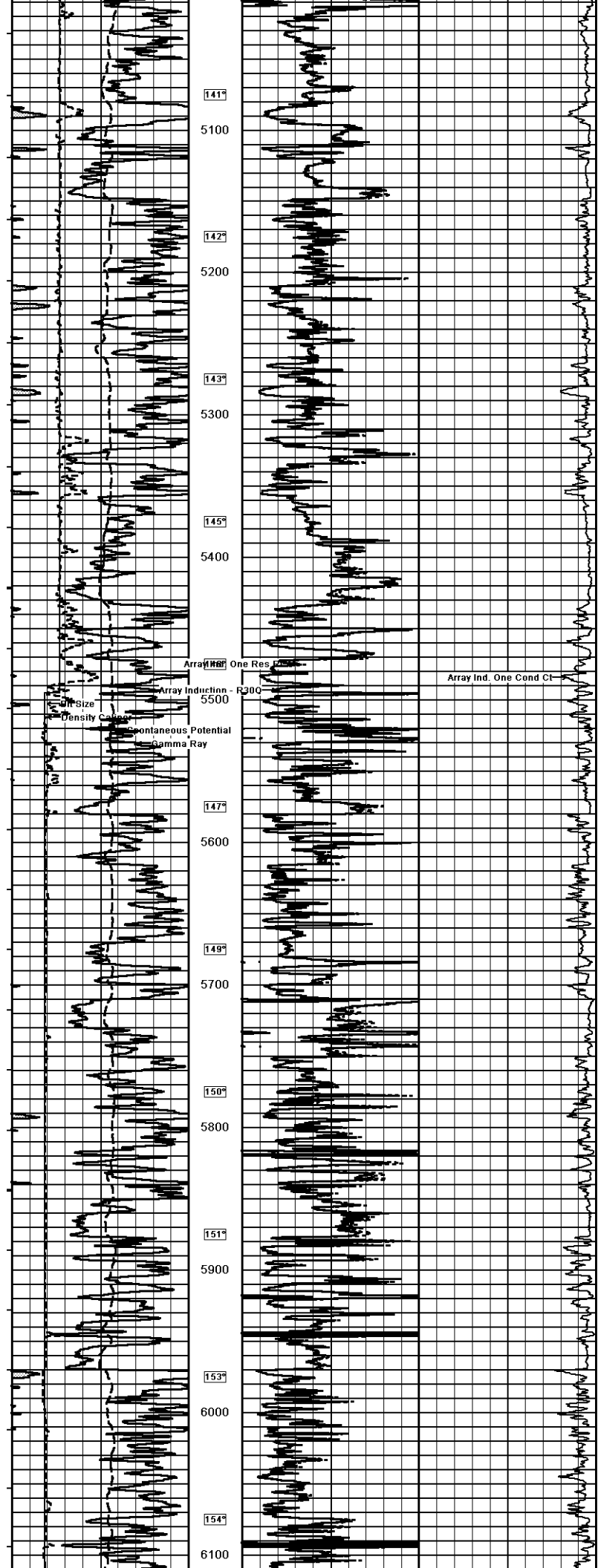
127

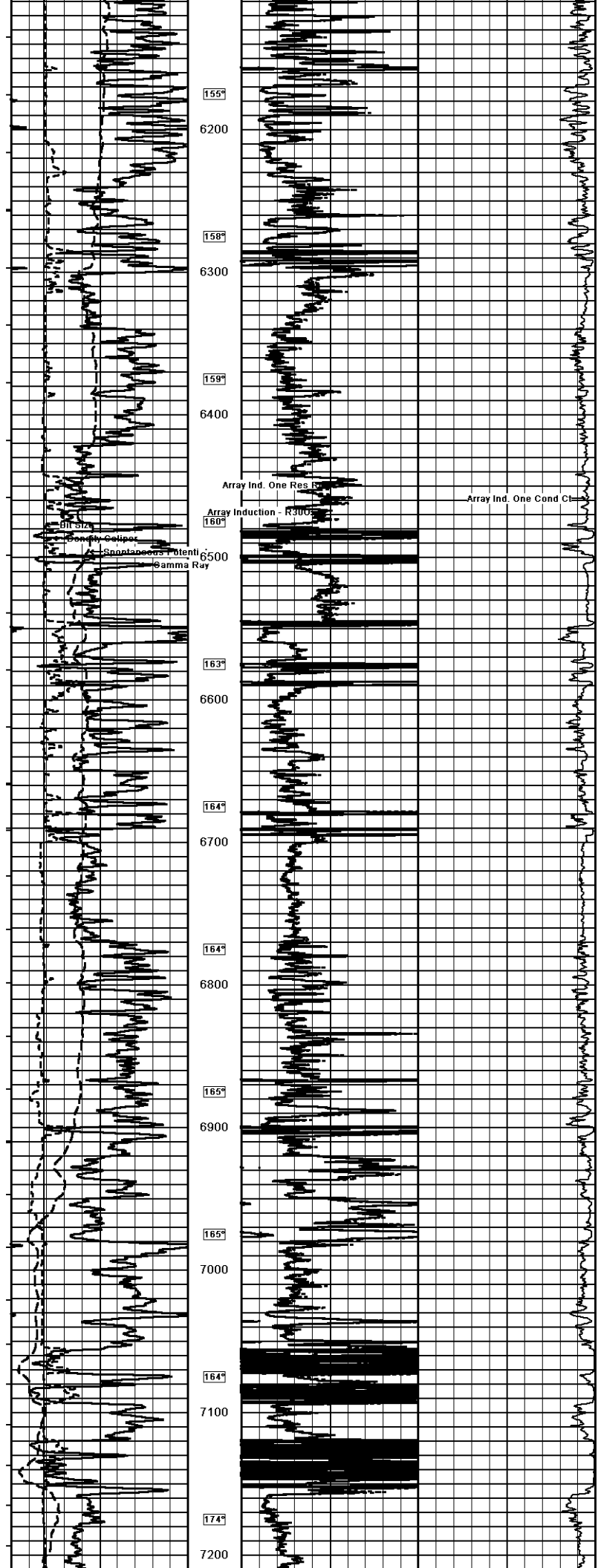
3800

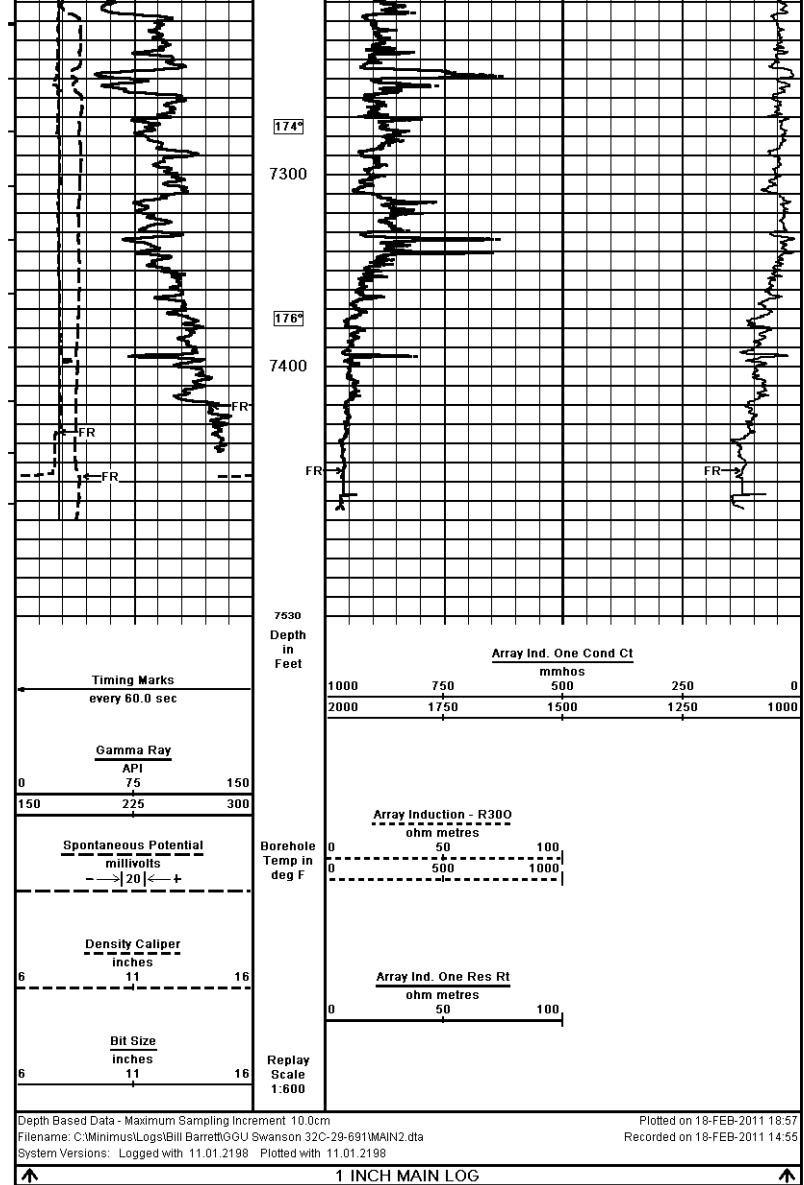
128


3900









COMPANY		BILL BARRETT CORPORATION			
WELL		GGU SWANSON 32C-29-691			
FIELD		GIBSON GULCH			
PROVINCE/COUNTY		GARFIELD			
COUNTRY/STATE		U.S.A. / COLORADO			
Elevation Kelly Bushing	6127.00	feet	First Reading	7455.00	
Elevation Drill Floor	6126.00	feet	Depth Driller	7458.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7458.00	feet
 <b>Weatherford</b>		ARRAY INDUCTION - RTAP			
		SHALLOW FOCUSED			
		ELECTRIC LOG			
		