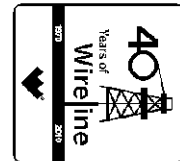




**Weatherford**<sup>®</sup>

**ARRAY INDUCTION - RTAP  
SHALLOW FOCUSED  
ELECTRIC LOG**

COMPANY **BILL BARRETT CORPORATION**  
WELL **GGU SWANSON 32D-29-691**  
FIELD **GIBSON GULCH**  
PROVINCE/COUNTY **GARFIELD**  
COUNTRY/STATE **U.S.A. / COLORADO**  
LOCATION **SHL: 1221' FNL & 1342' FEL  
BHL: 1473' FNL & 1990' FEL**



SEC	TWP	RGE	Other Services
29	6S	91W	MPD/MDN
API Number		05-045-19801	
Permit Number			
Permanent Datum G.L., Elevation 6104 feet			
Log Measured From KB @ 23 FT above Permanent Datum			
Drilling Measured From K.B.			
Date	22-FEB-2011		
Run Number	ONE		
Depth Driller	7467.00	feet	
Depth Logger	7456.00	feet	
First Reading	7453.00		
Last Reading	200.00		
Casing Driller	768.00	feet	
Casing Logger	768.00	feet	
Bit Size	7.880	inches	
Hole Fluid Type	LSND		
Density / Viscosity	10.60 lb/USg	55.00 CP	
PH / Fluid Loss	9.60	5.20 ml/30Min	
Sample Source	FLOW LINE		
Rm @ Measured Temp	4.0 @ 80.0	ohm-m	
Rmf @ Measured Temp	3.20 @ 80.0	ohm-m	
Rmc @ Measured Temp	4.80 @ 80.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.85 @ 176.0	ohm-m	
Time Since Circulation	6 HOURS		
Max Recorded Temp	176.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13173	G.D JCT	
Recorded By	J.GARCIA		
Witnessed By	C.CROW		

Elevations:	feet
KB	6127.00
DF	6126.00
GL	6104.00

**BOREHOLE RECORD**

Last Edited: 23-FEB-2011 01:26

Bit Size inches	Depth From feet	Depth To feet
8.750	768.00	7467.00

**CASING RECORD**

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	768.00	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 7456 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 3060 CU FT

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2320 CU.FT.

ENGINEER(S): J.GARCIA

OPERATOR: R.SYERS, S.KAISER

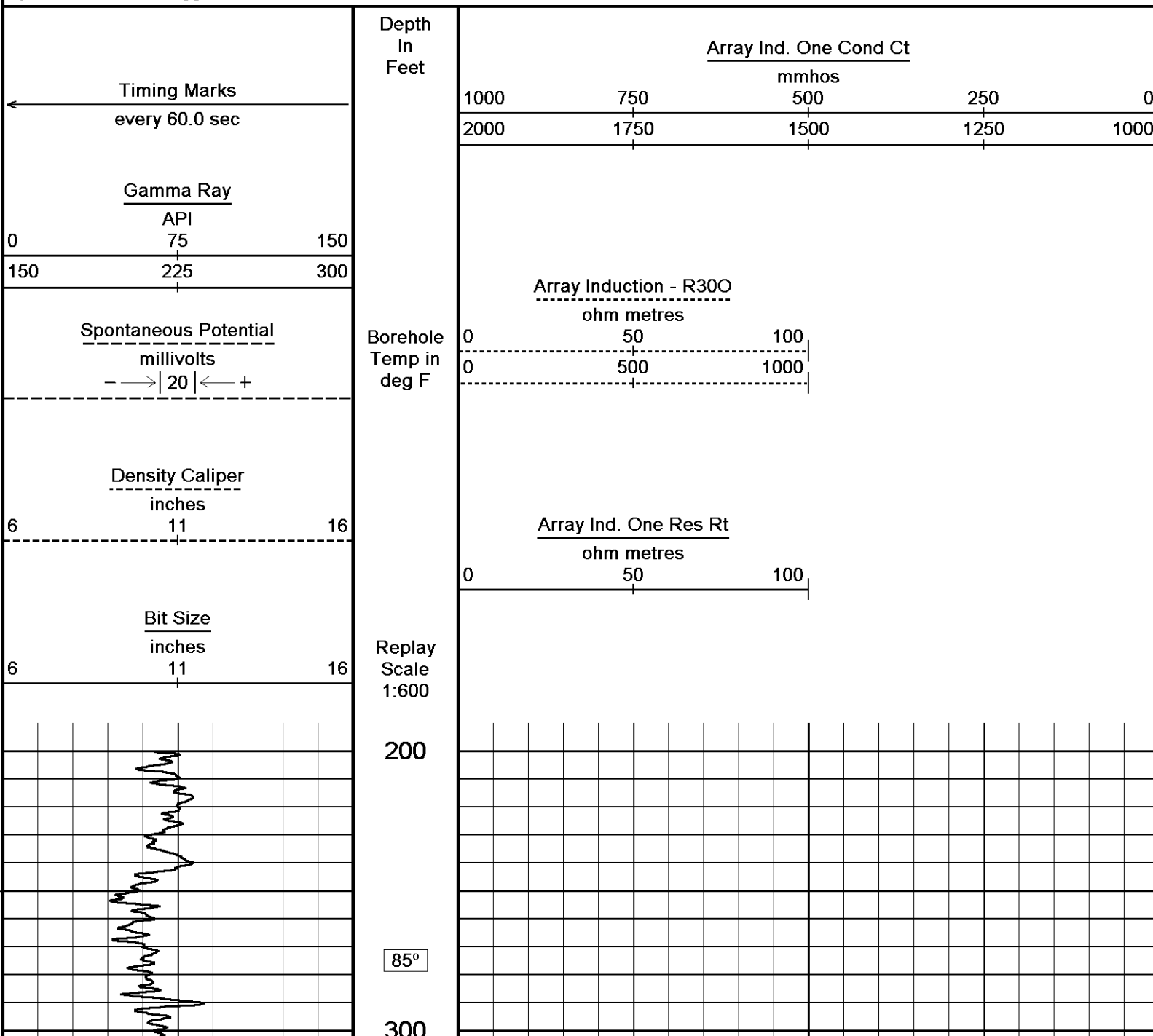
SERVICE ORDER: # 3524851

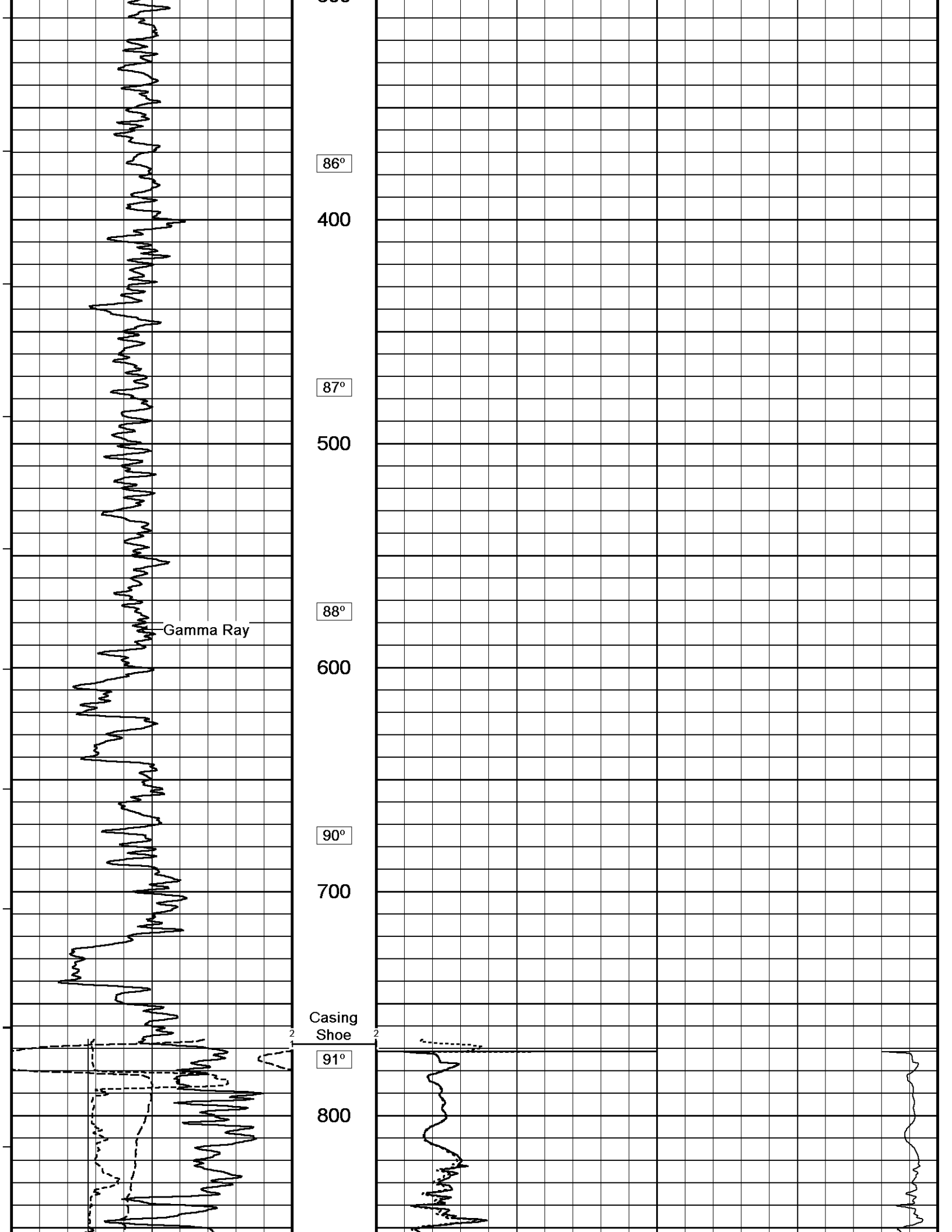
RIG: PATTERSON #307

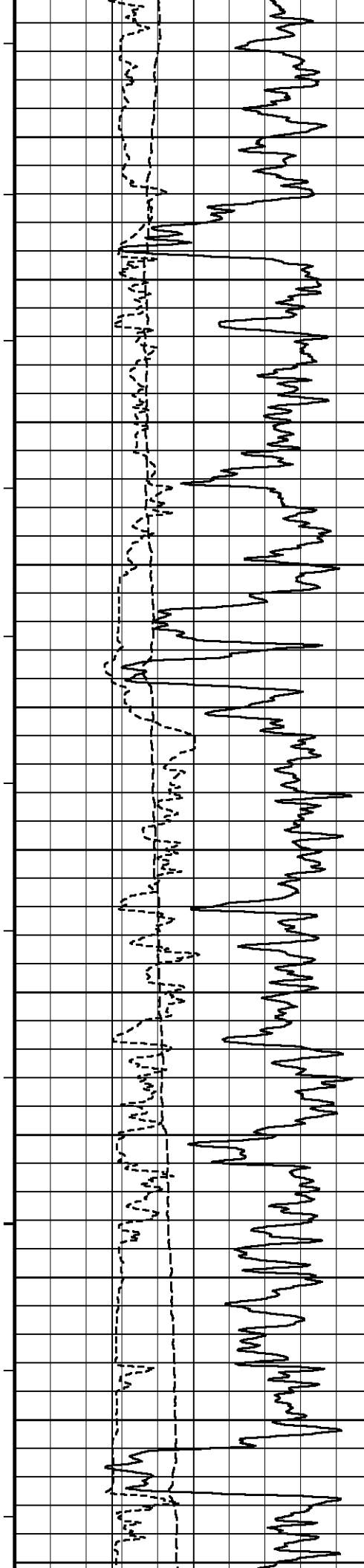
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

**2 INCH MAIN LOG**

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-FEB-2011 03:17  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta Recorded on 22-FEB-2011 23:21  
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198







92°

900

92°

1000

93°

1100

94°

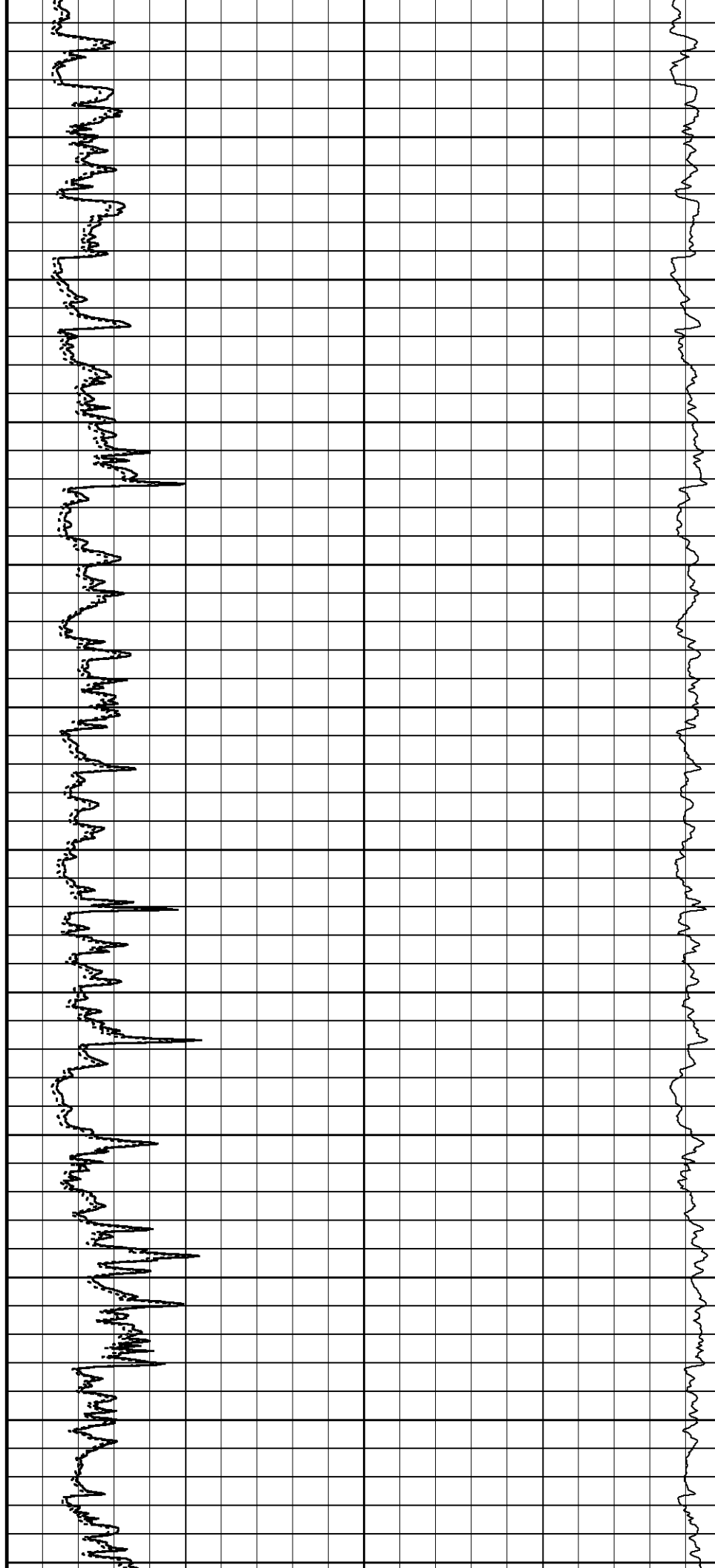
1200

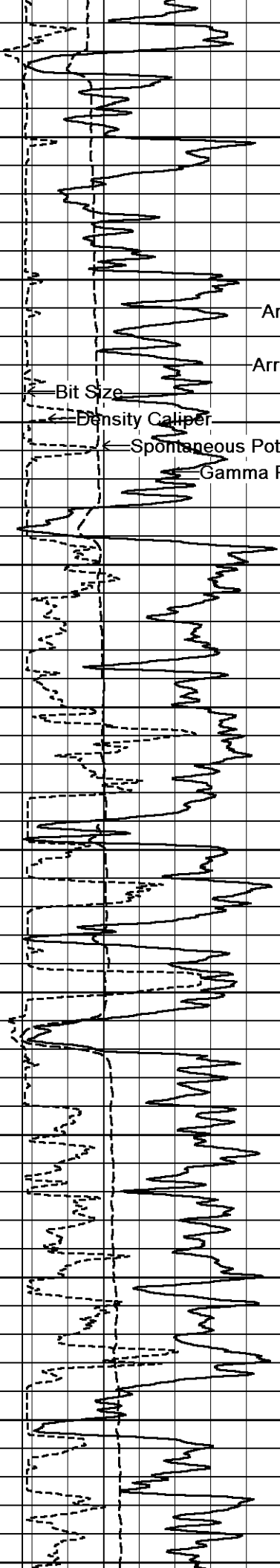
95°

1300

96°

1400

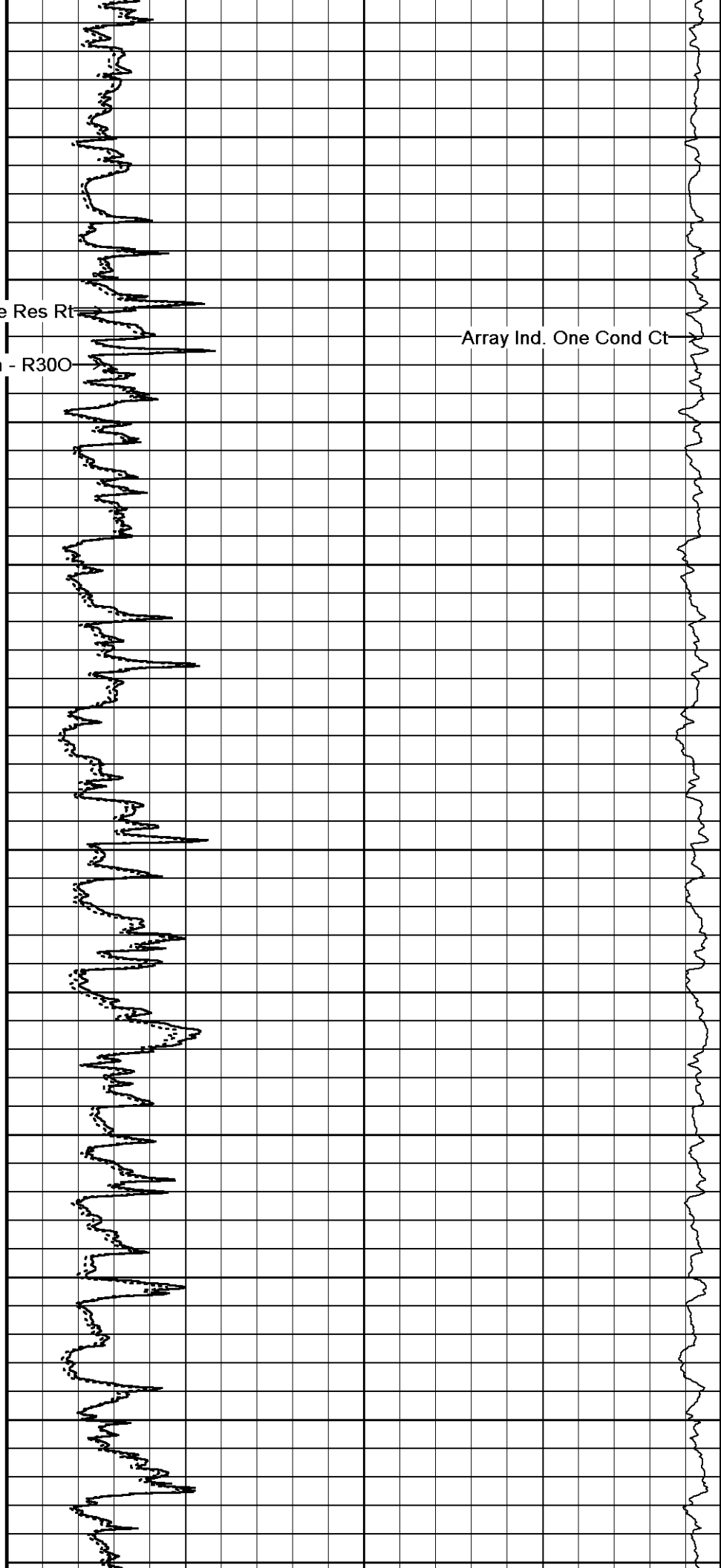


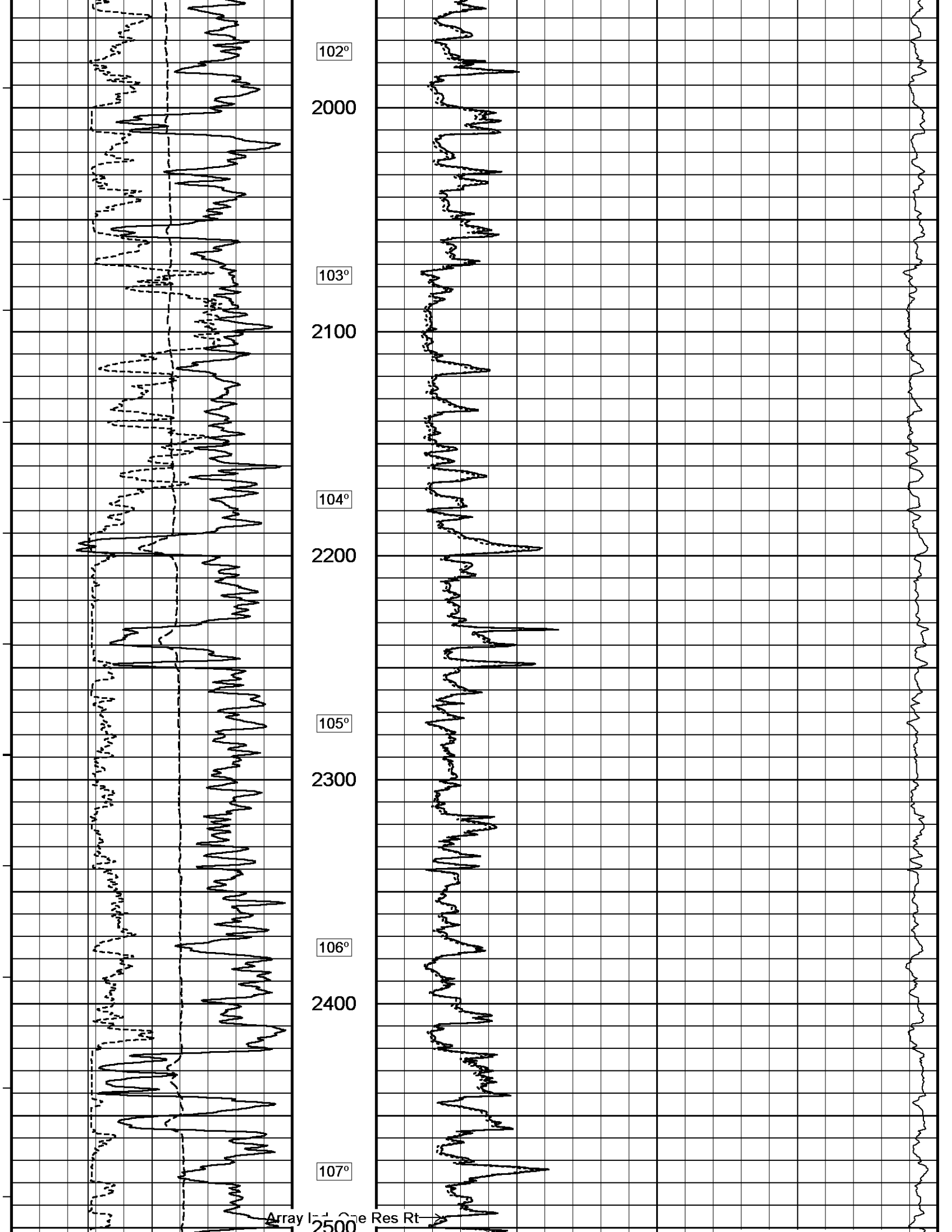


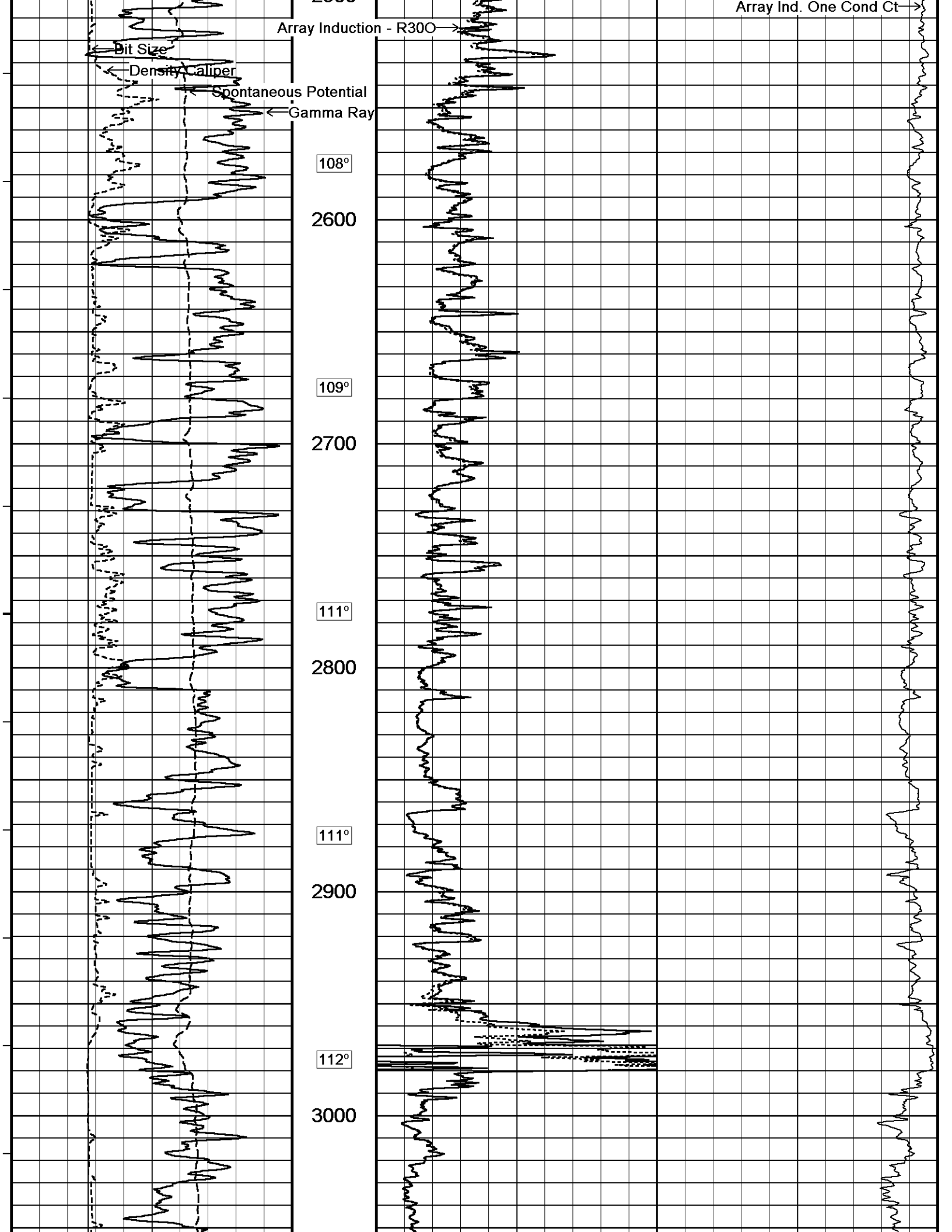
1500  
97°  
1500  
99°  
1600  
99°  
1700  
100°  
1800  
101°  
1900

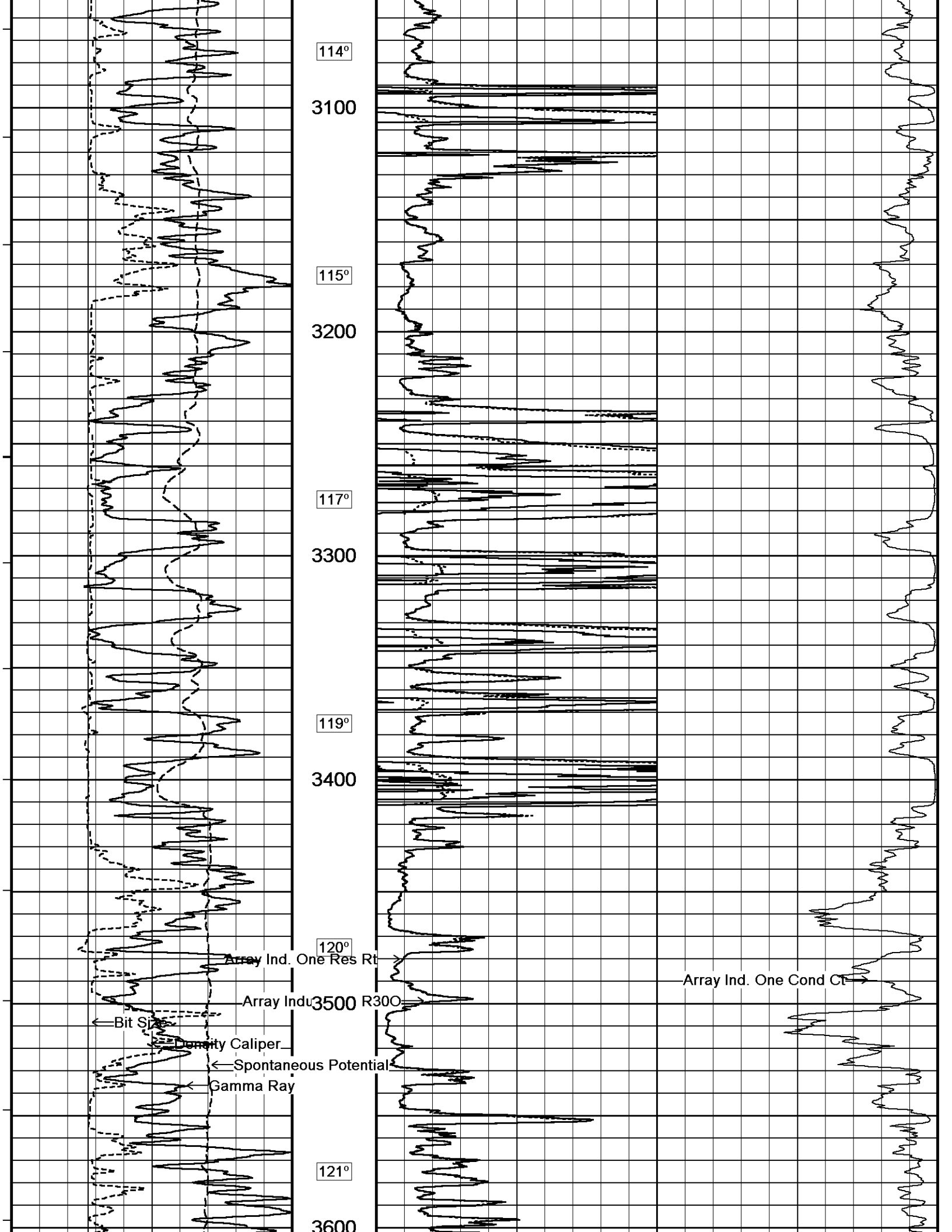
Array Ind. One Res Rt  
Array Induction - R300

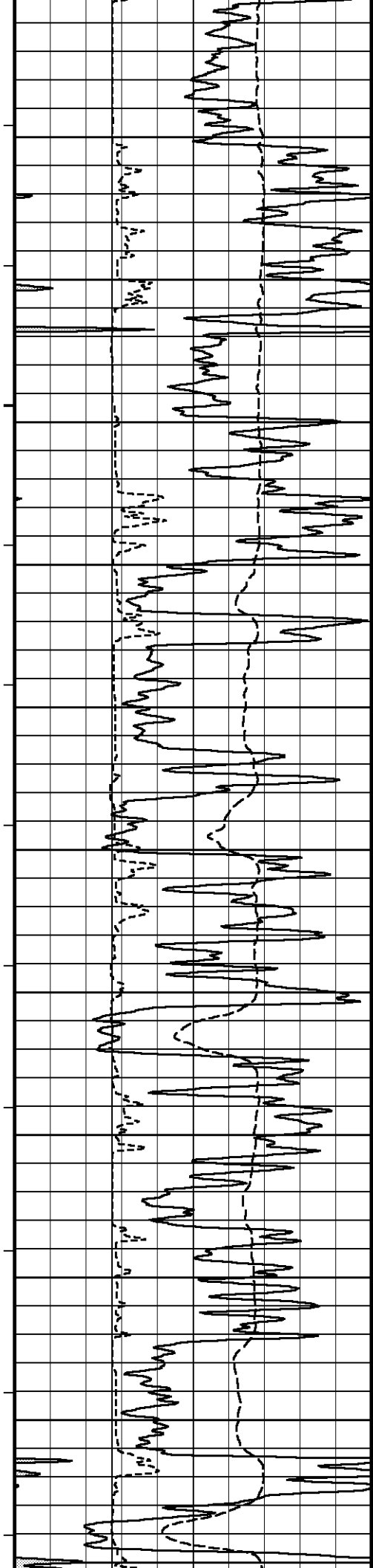
Array Ind. One Cond Ct











3300

123°

3700

124°

3800

125°

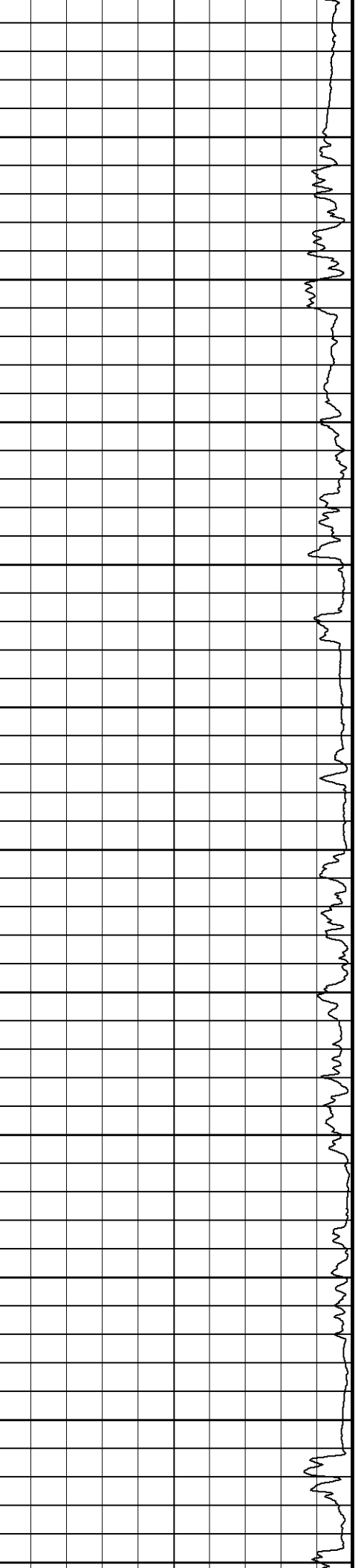
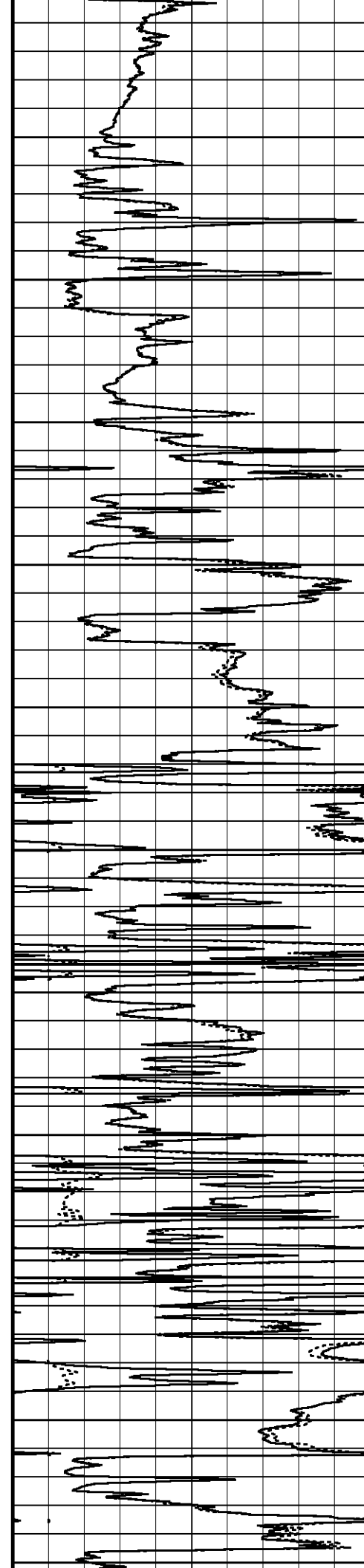
3900

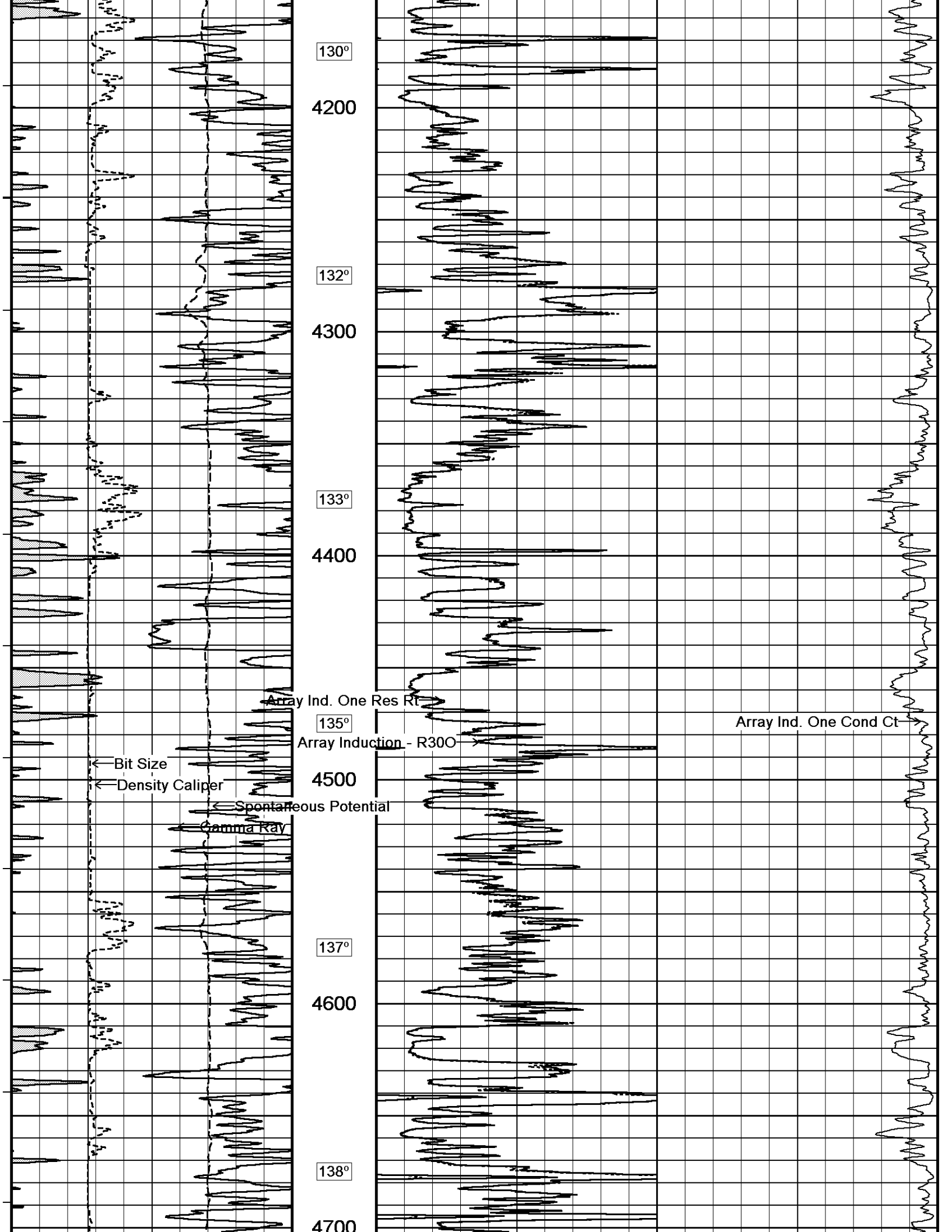
127°

4000

128°

4100





130°

4200

132°

4300

133°

4400

135°

4500

137°

4600

138°

4700

Array Ind. One Res Rt

Array Ind. One Cond Ct

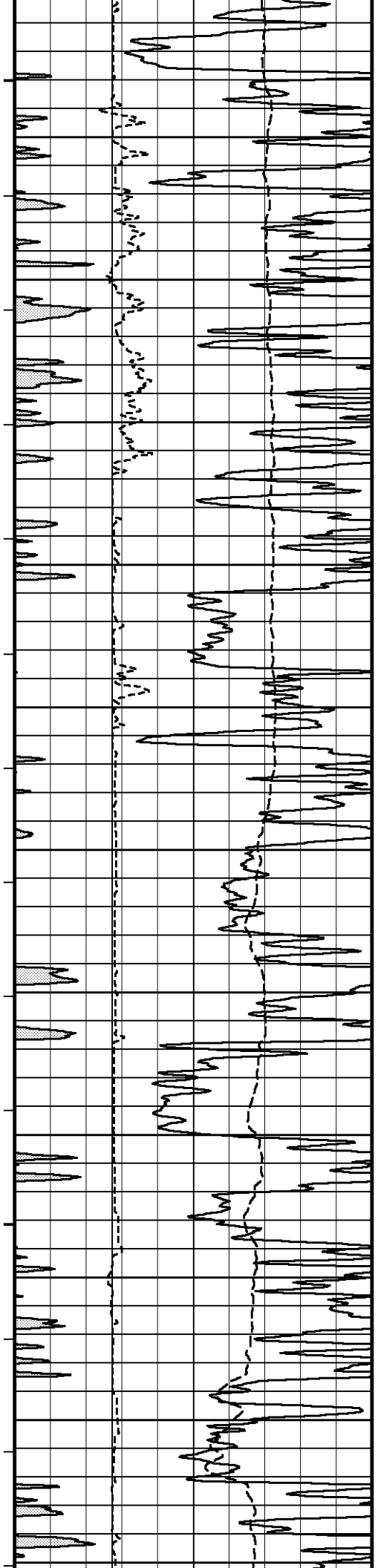
Array Induction - R300

← Bit Size

← Density Caliper

← Spontaneous Potential

← Gamma Ray



140°

4800

141°

4900

142°

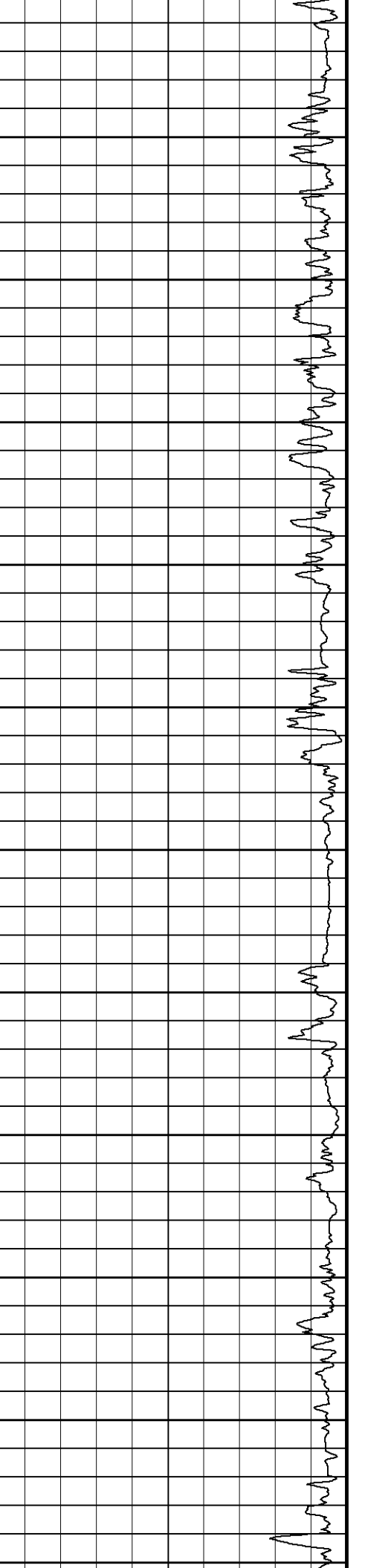
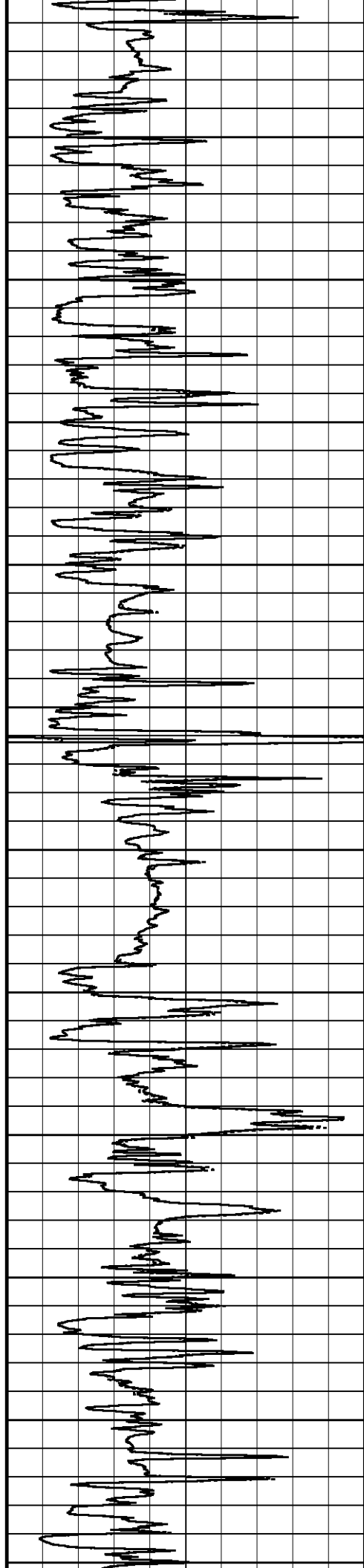
5000

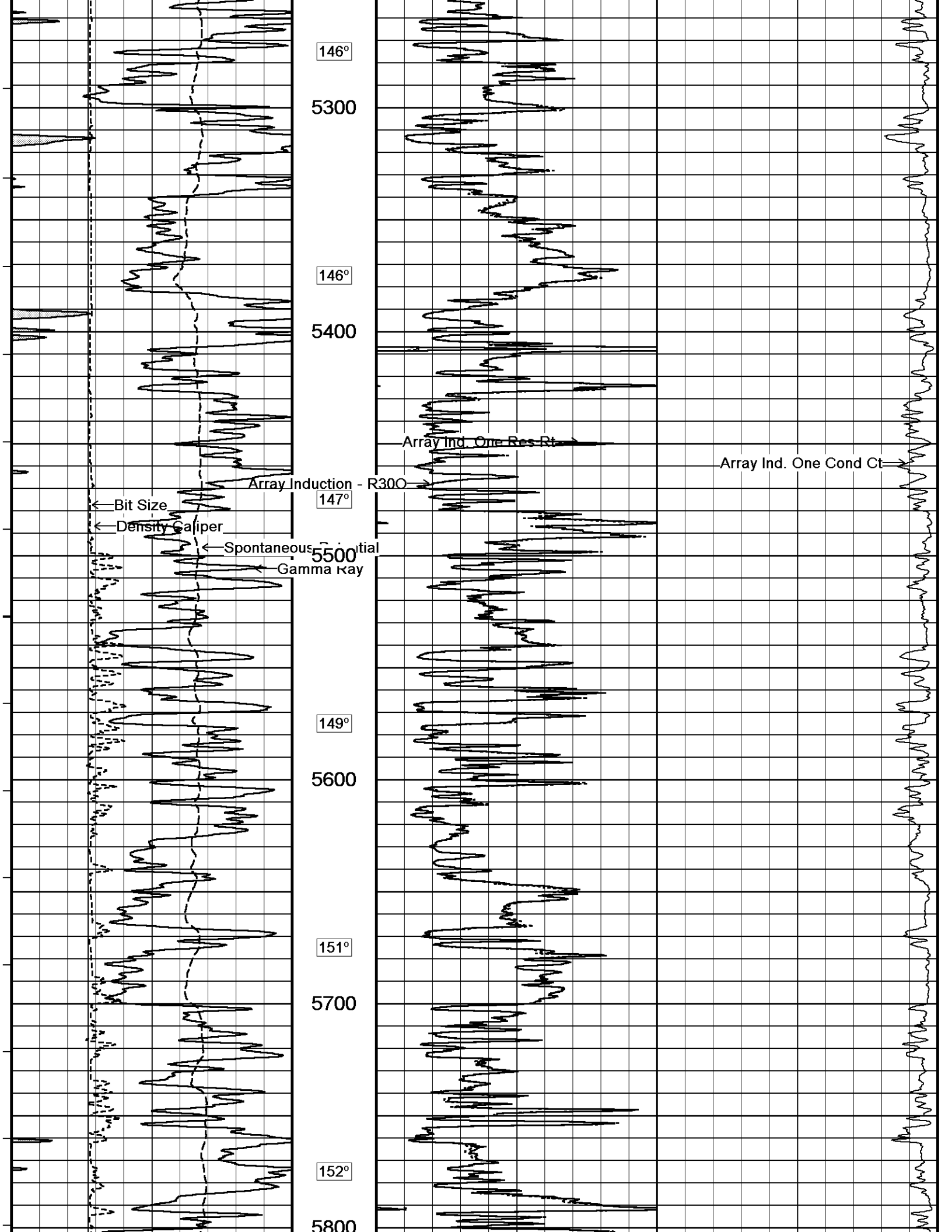
144°

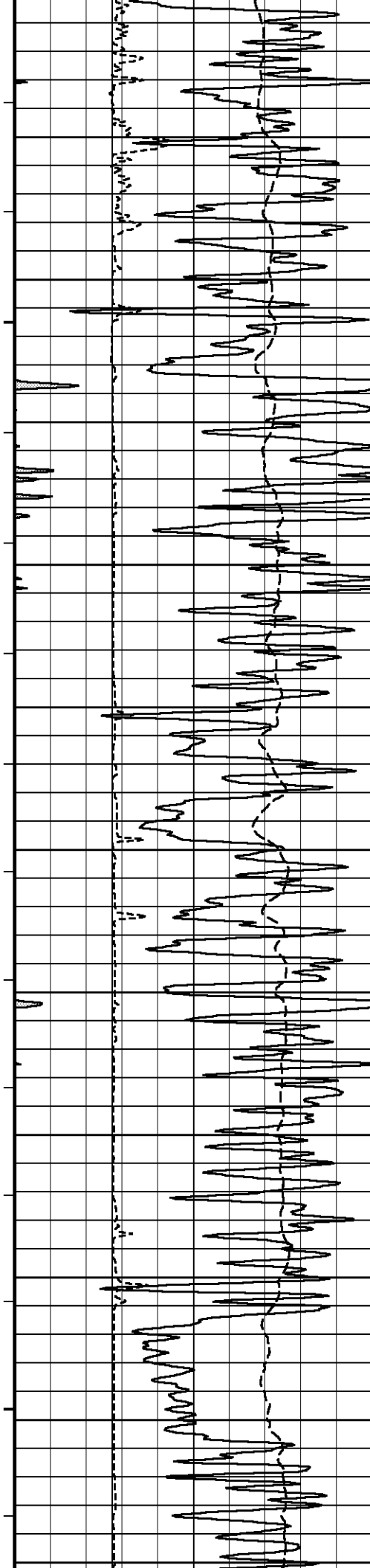
5100

145°

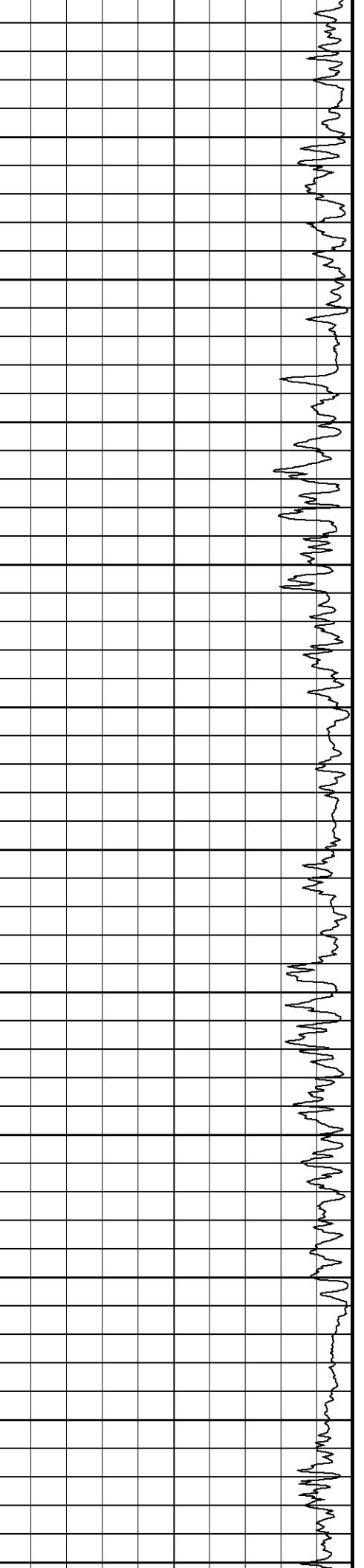
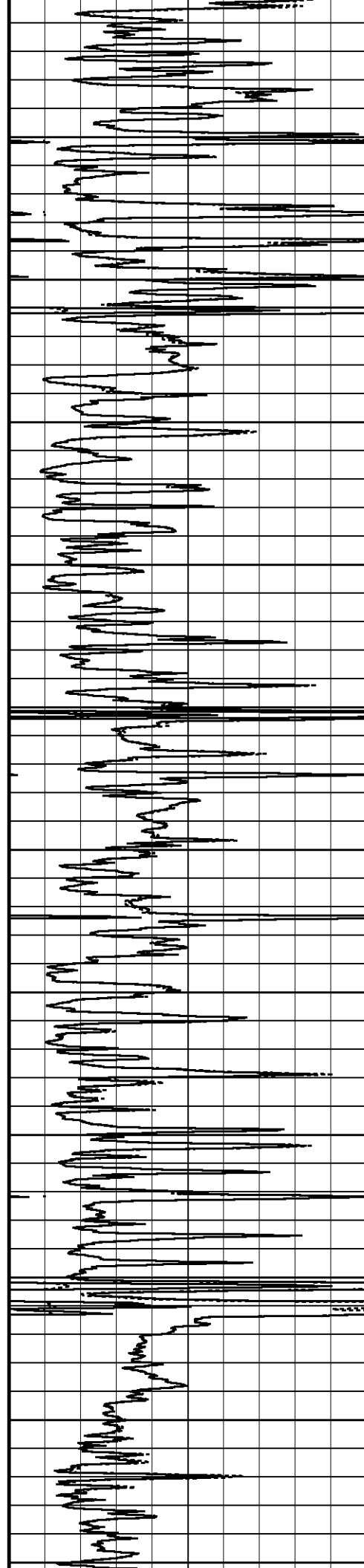
5200

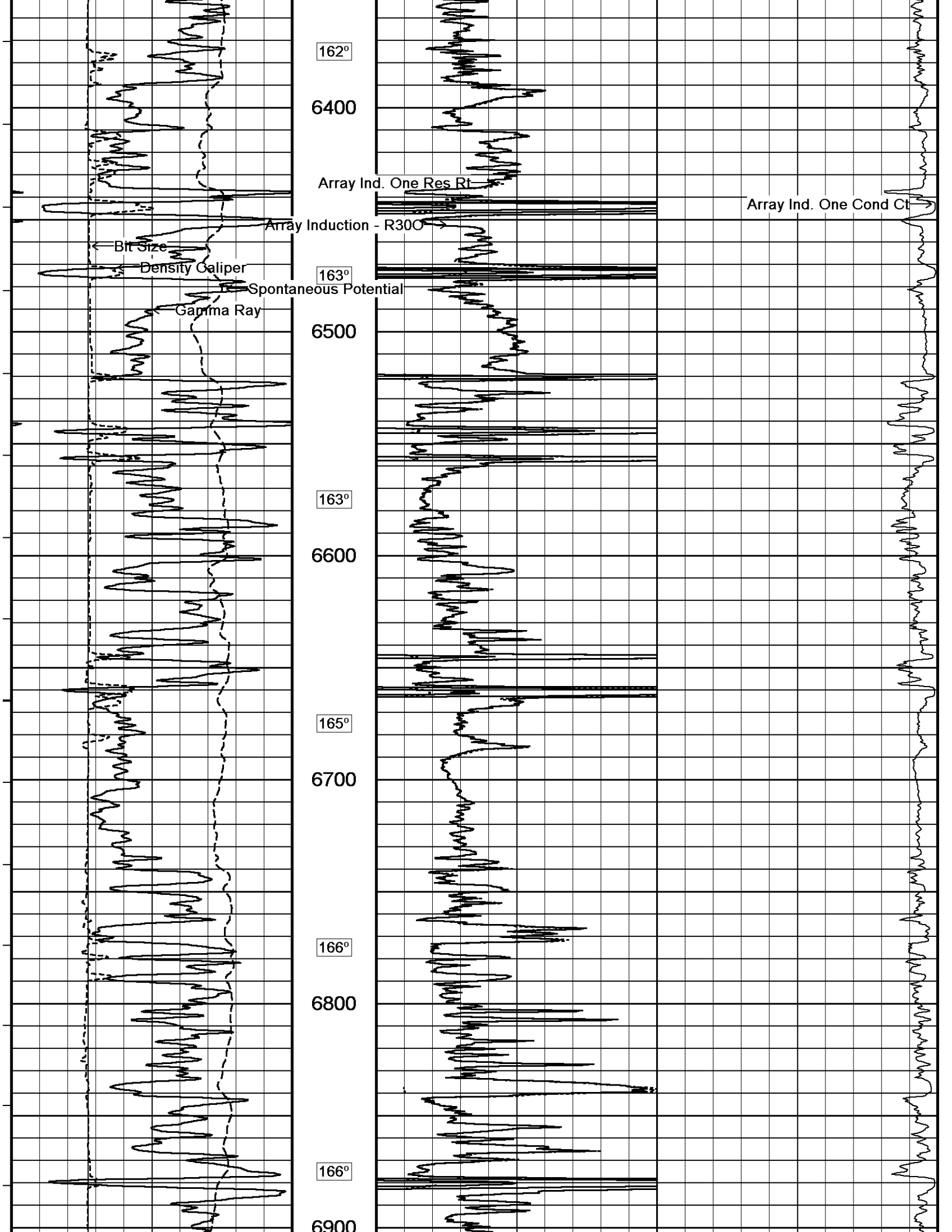






5300  
153°  
5900  
154°  
6000  
157°  
6100  
158°  
6200  
161°  
6300





162°

6400

Array Ind. One Res Rt

Array Induction - R300

Array Ind. One Cond Ct

Bit Size

Density Caliper

163°

Spontaneous Potential

6500

Gamma Ray

163°

6600

165°

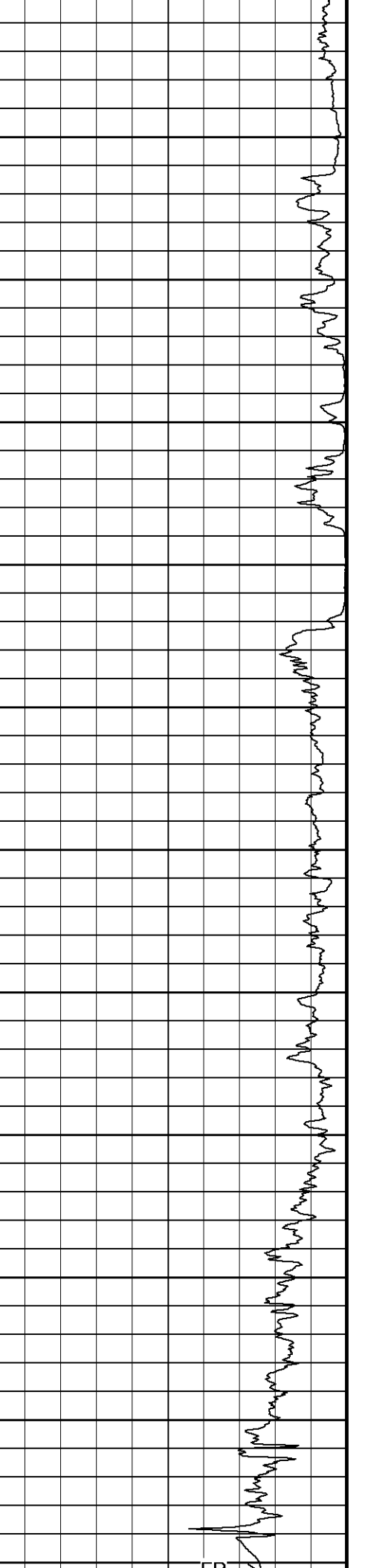
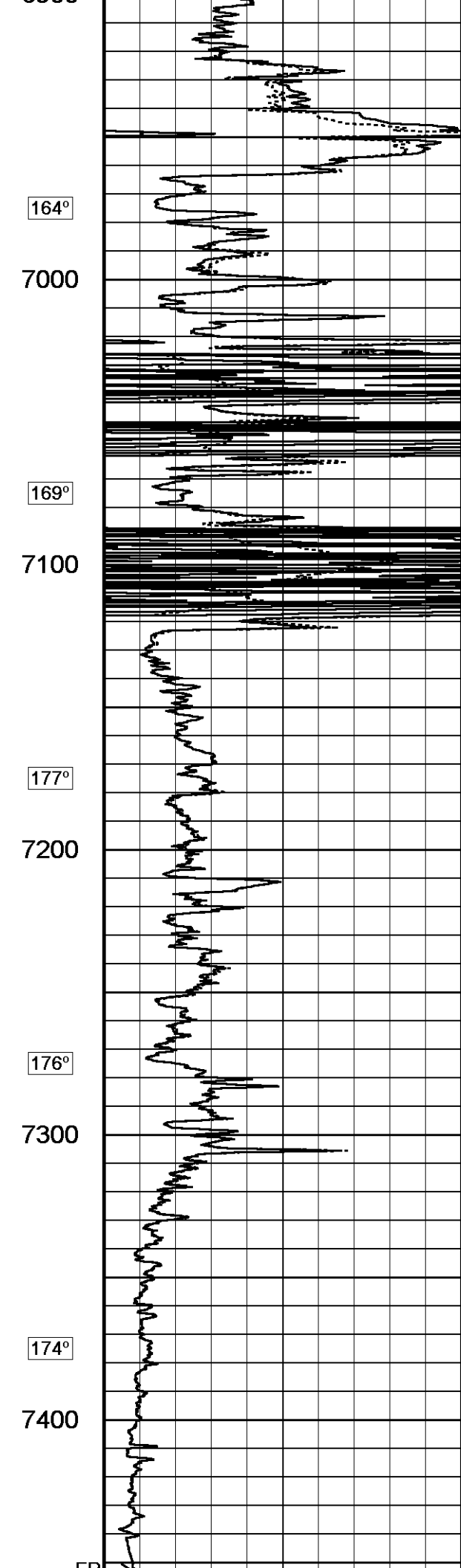
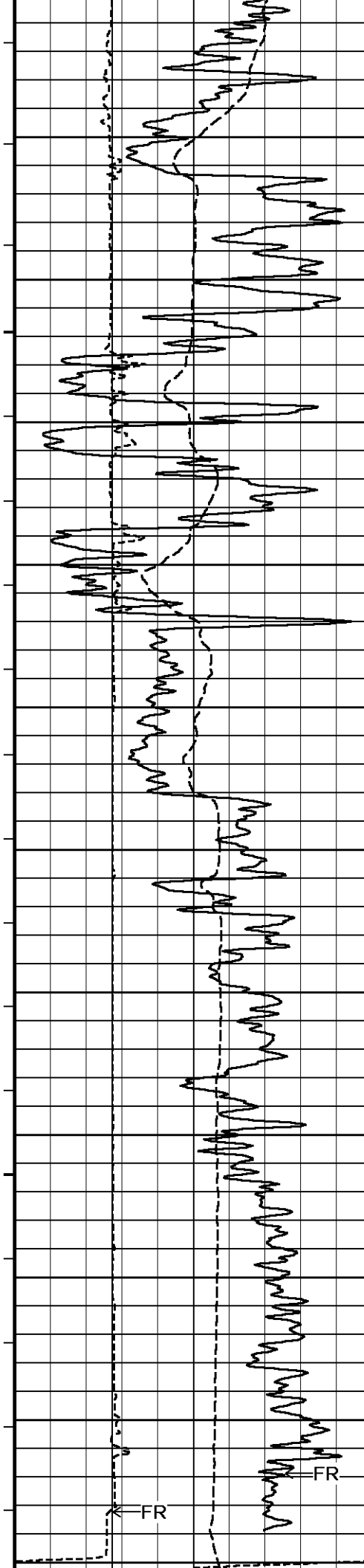
6700

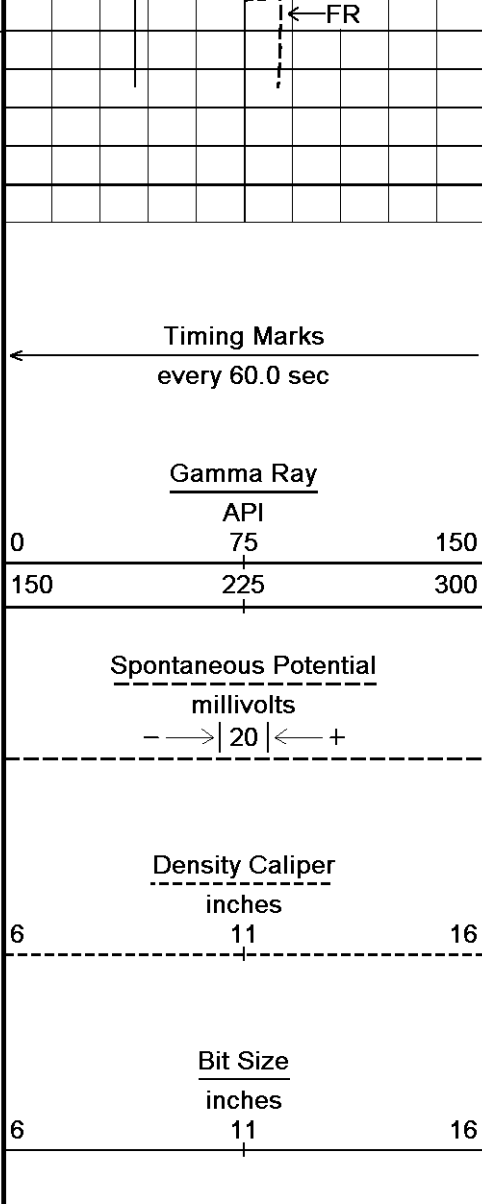
166°

6800

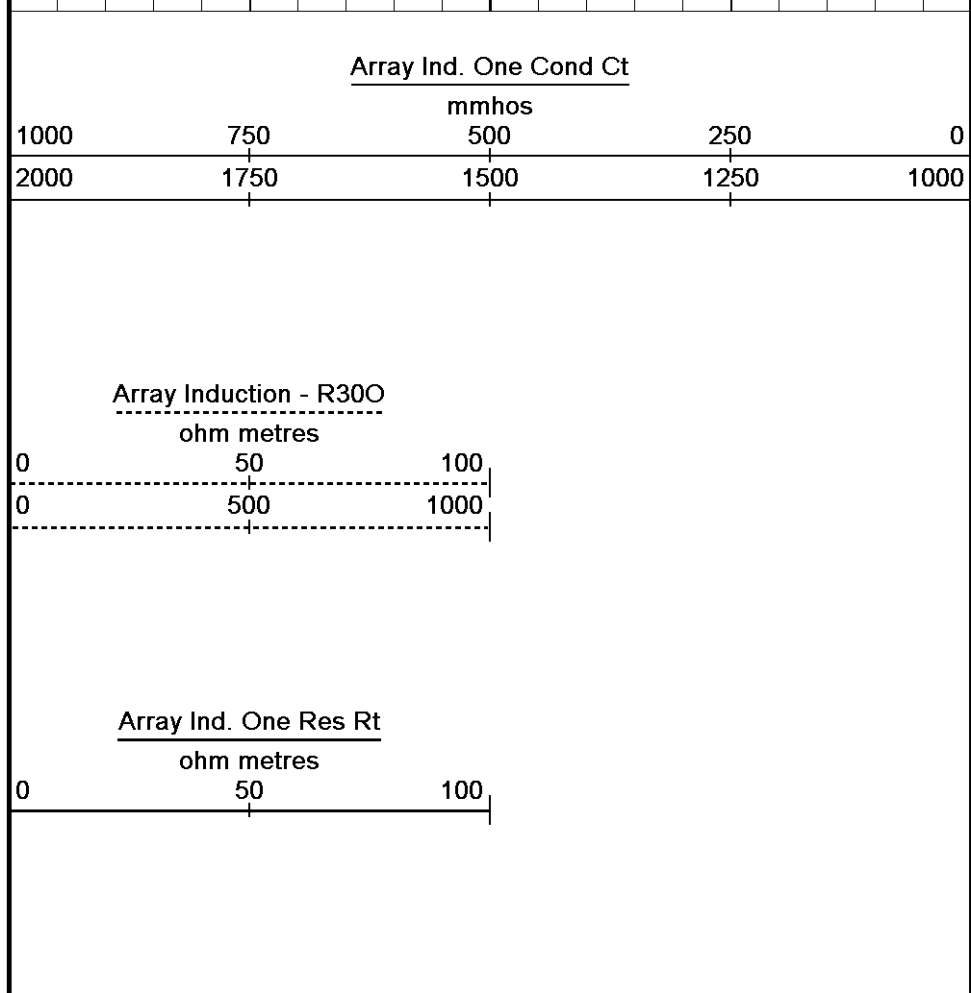
166°

6900





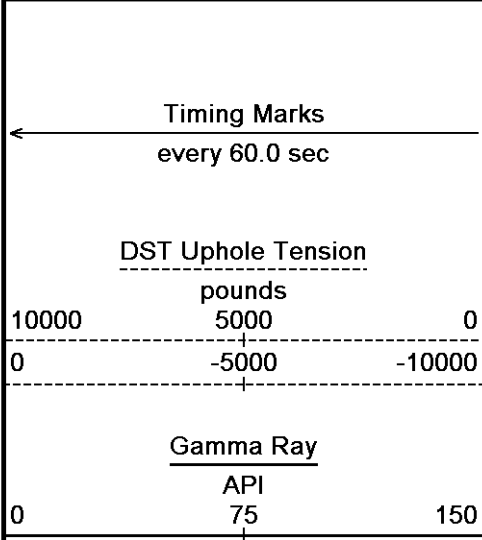
7500  
Depth In Feet  
Borehole Temp in deg F  
Replay Scale 1:600



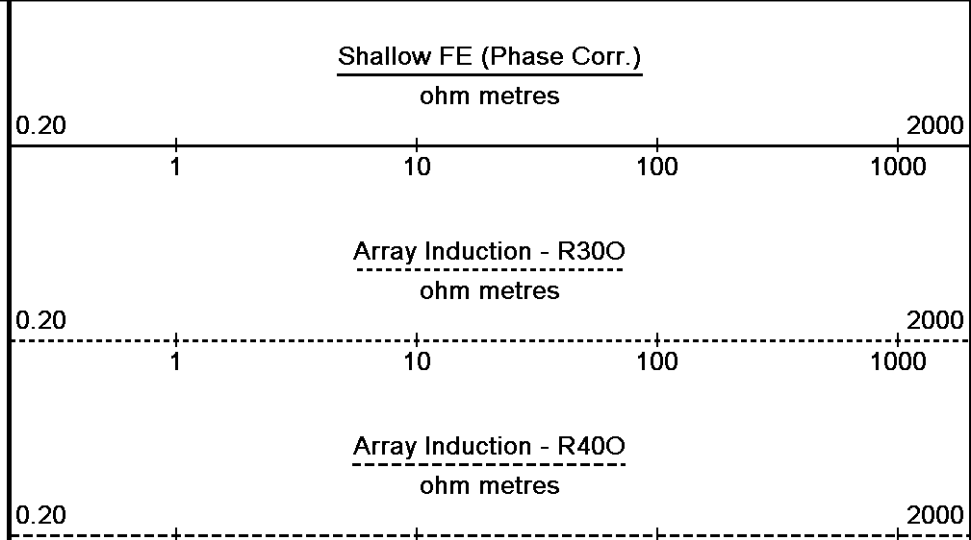
Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 23-FEB-2011 03:17  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta  
 Recorded on 22-FEB-2011 23:21  
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

↑ 2 INCH MAIN LOG ↑

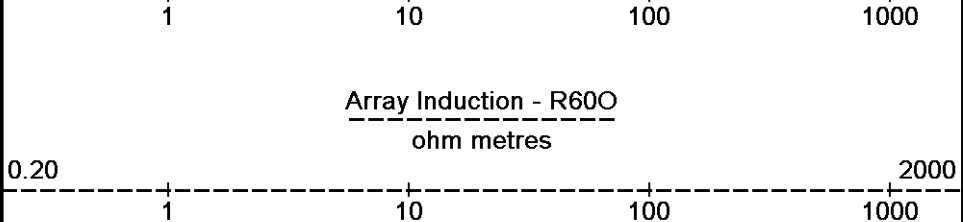
↓ 5 INCH MAIN LOG ↓  
 Depth Based Data - Maximum Sampling Increment 10.0cm  
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 Recorded on 22-FEB-2011 23:21  
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198



Depth In Feet



Borehole Temp in deg F



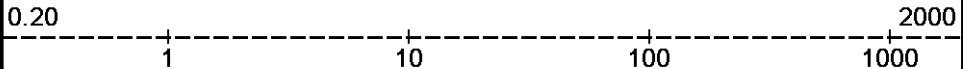
Spontaneous Potential

millivolts

- -> | 20 | <- - +

Array Induction - R600

ohm metres



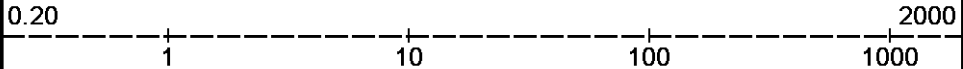
Density Caliper

inches

6 11 16

Array Induction - R850

ohm metres



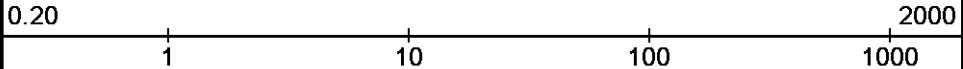
Bit Size

inches

6 11 16

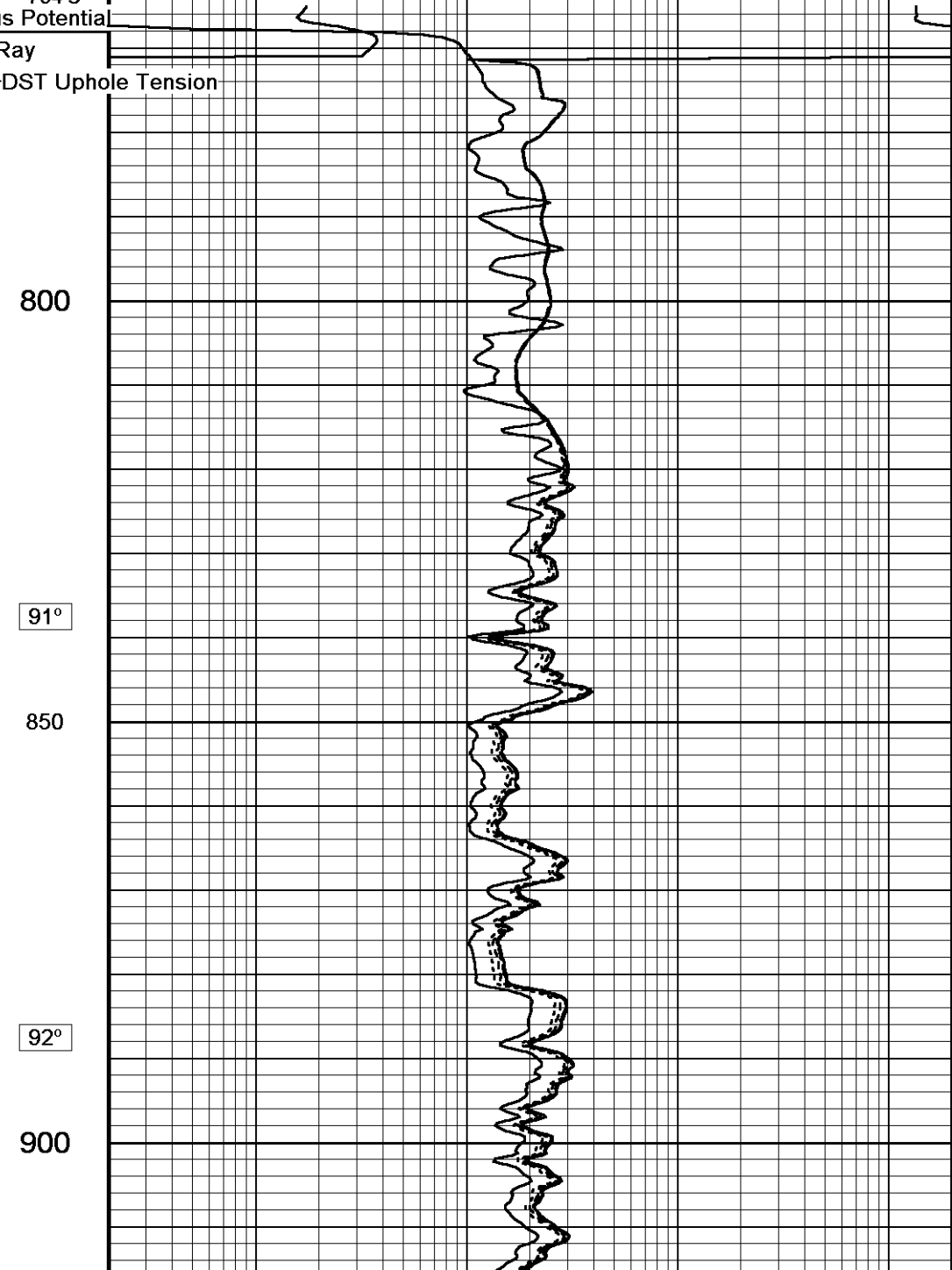
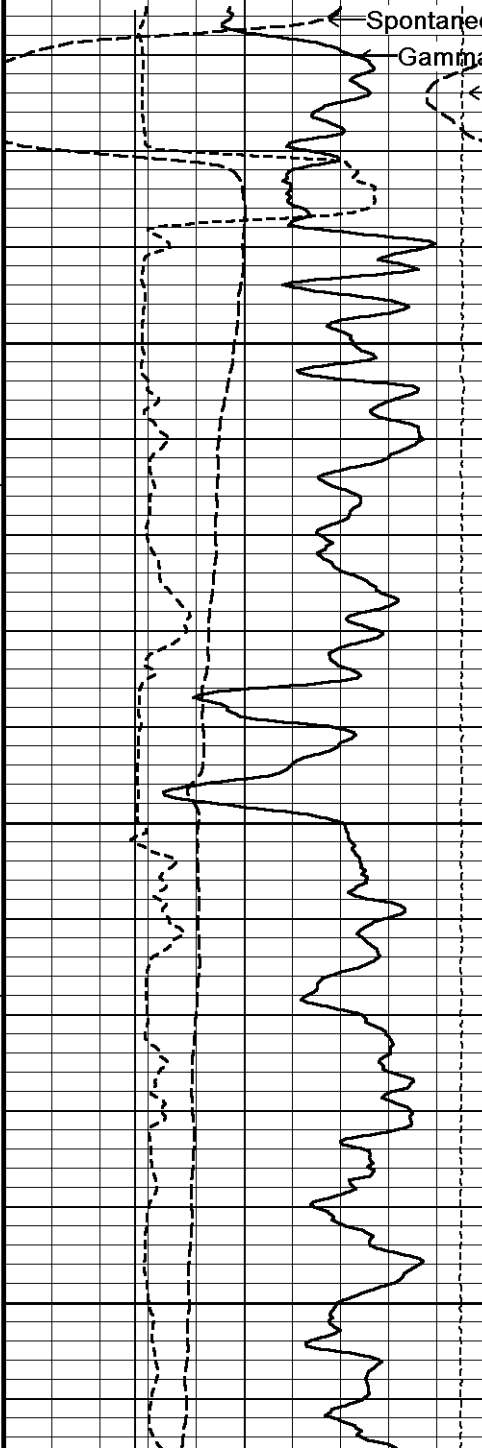
Array Ind. One Res Rt

ohm metres



Replay Scale 1:240

C:76419



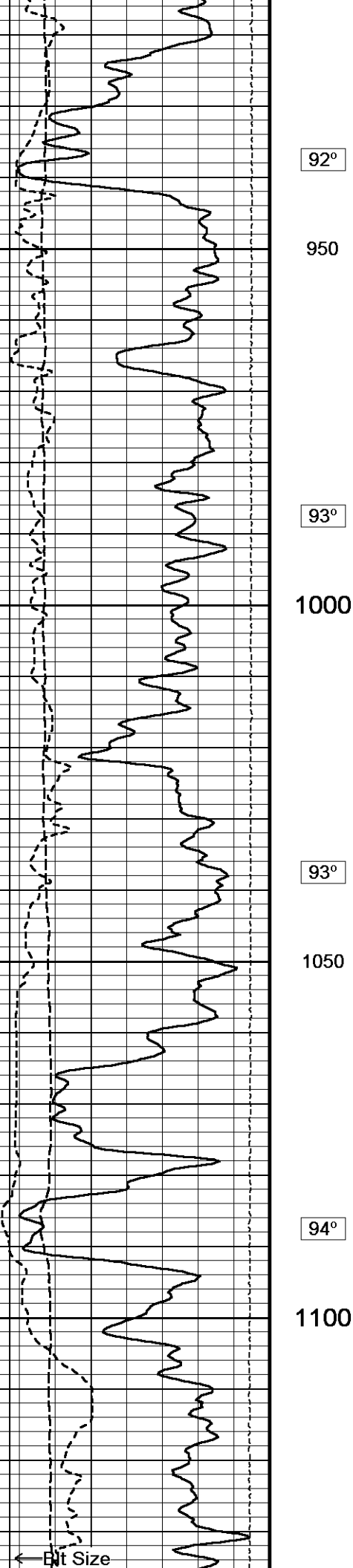
800

91°

850

92°

900



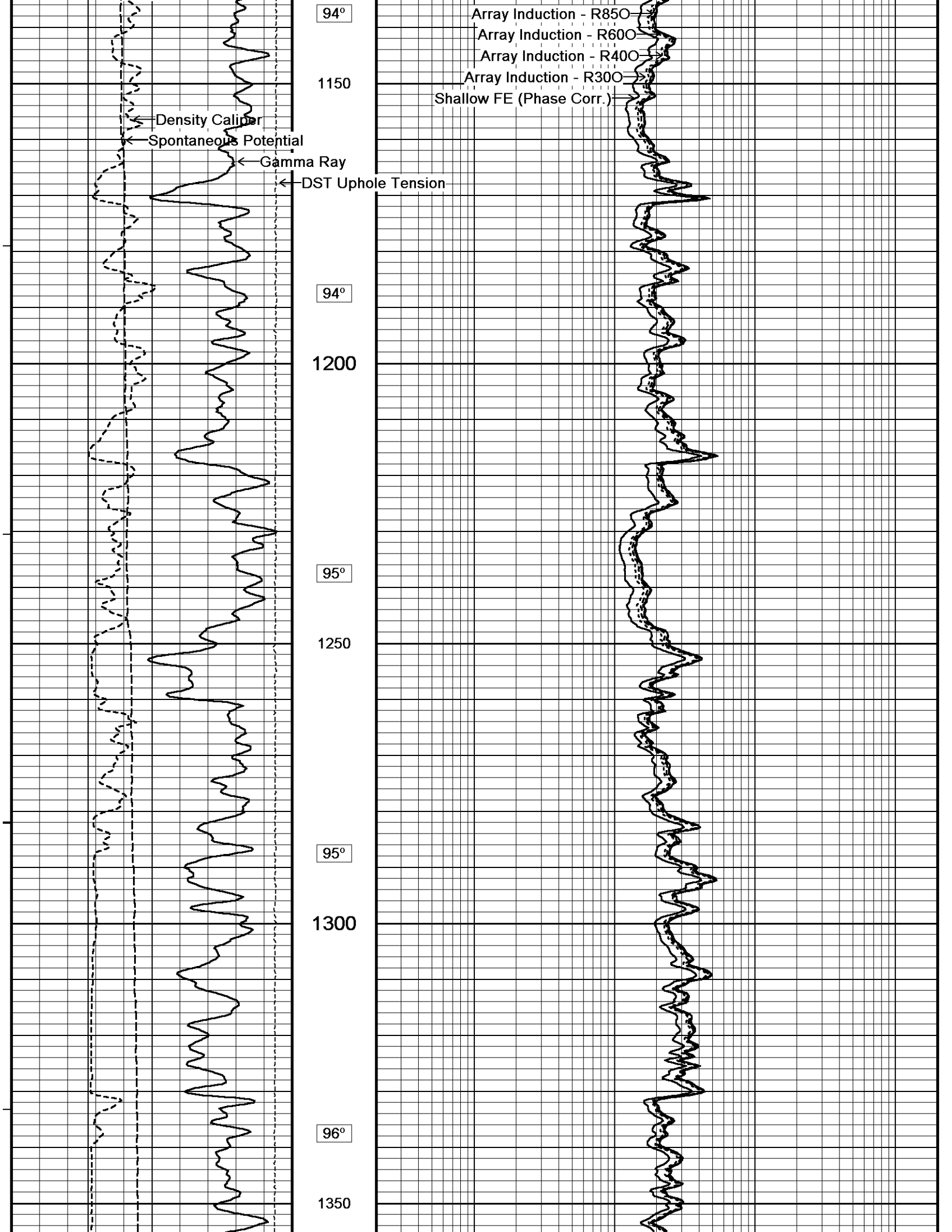
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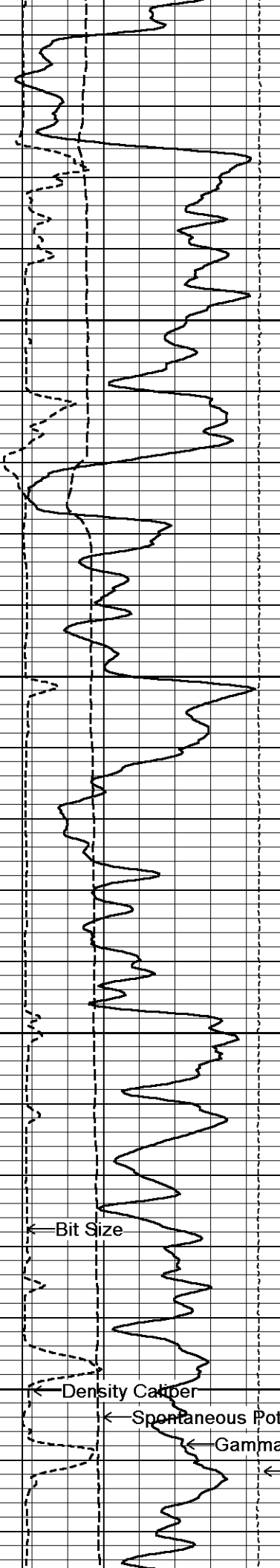
1000

1050

1100

Array Ind. One Res Rt





96°

1400

97°

1450

98°

1500

98°

1550

← Bit Size

← Density Caliper

← Spontaneous Potential

← Gamma Ray

← DST Uphole Tension

Array Ind. One Res Rt

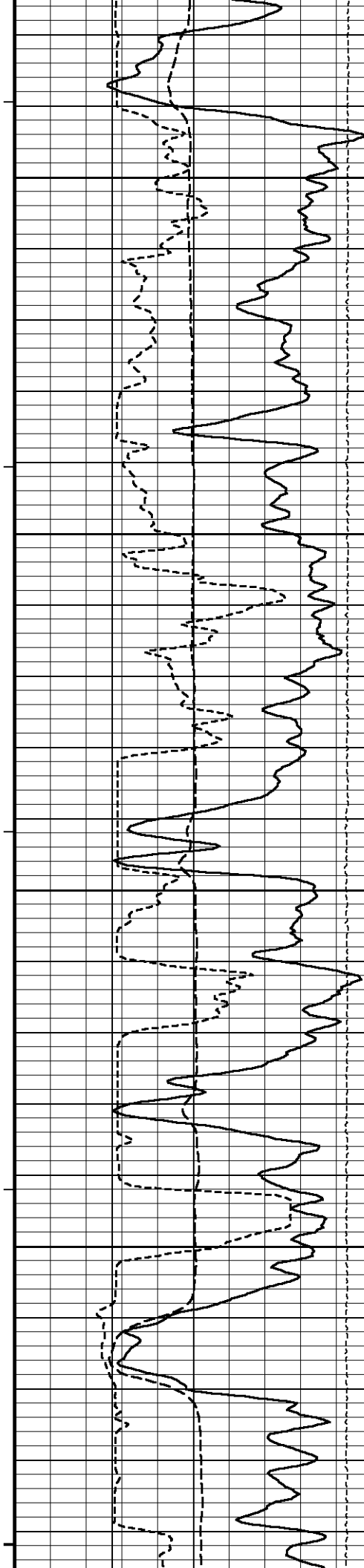
Array Induction - R850

Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr.) →



99°

1600

99°

1650

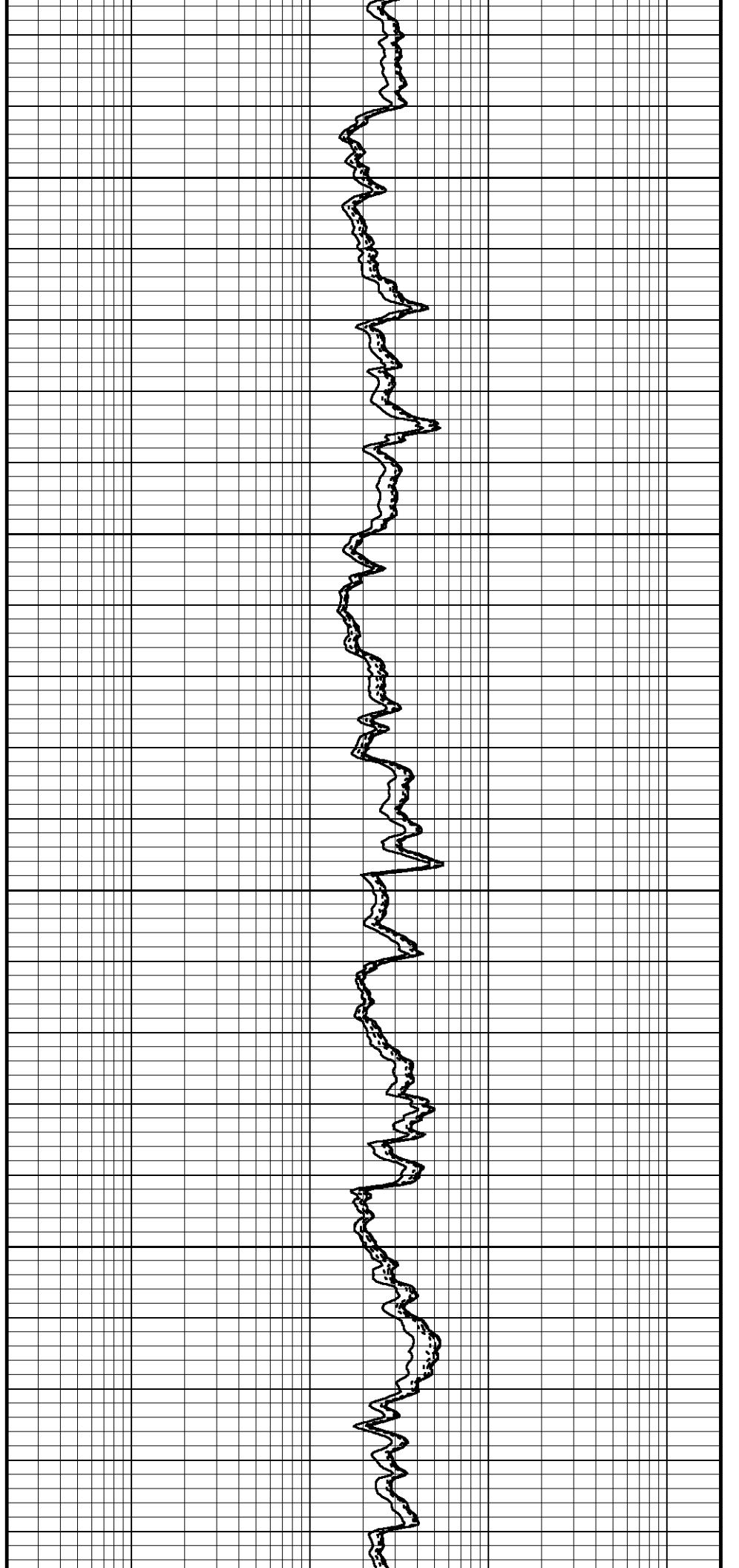
100°

1700

100°

1750

100°



1800

101°

1850

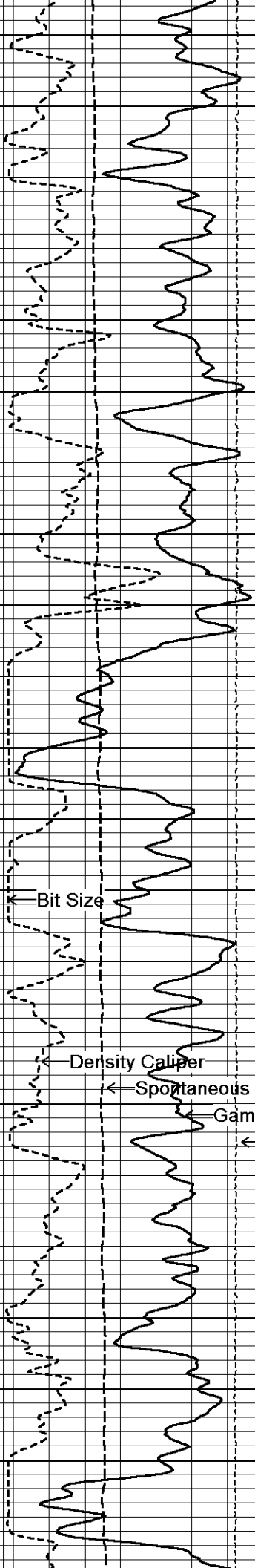
101°

1900

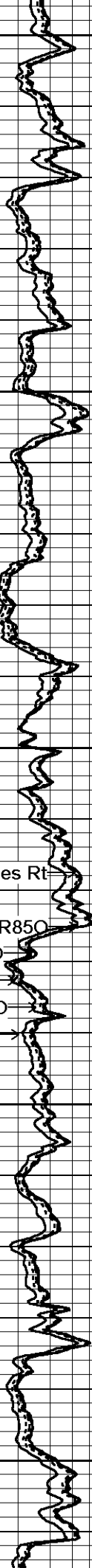
102°

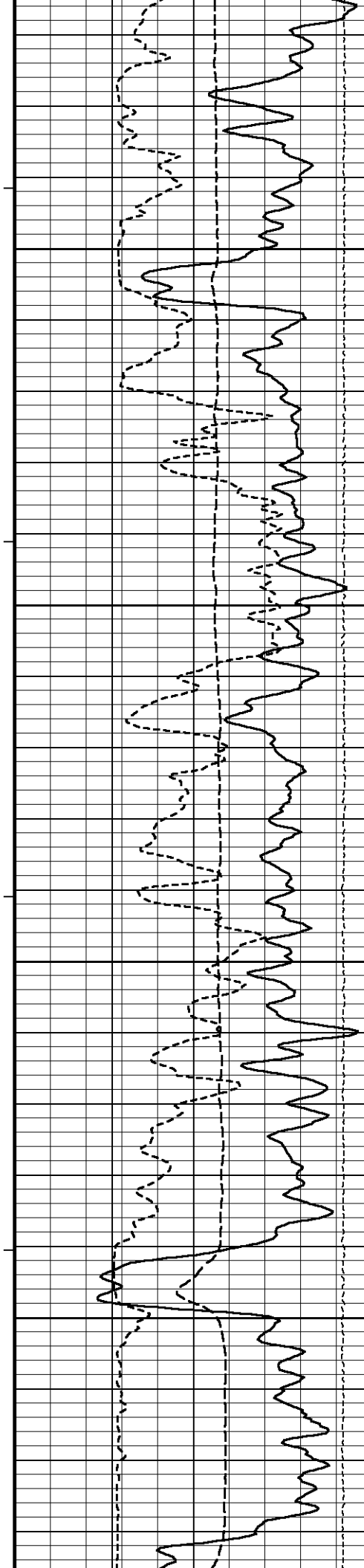
103°

2000



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





103°

2050

103°

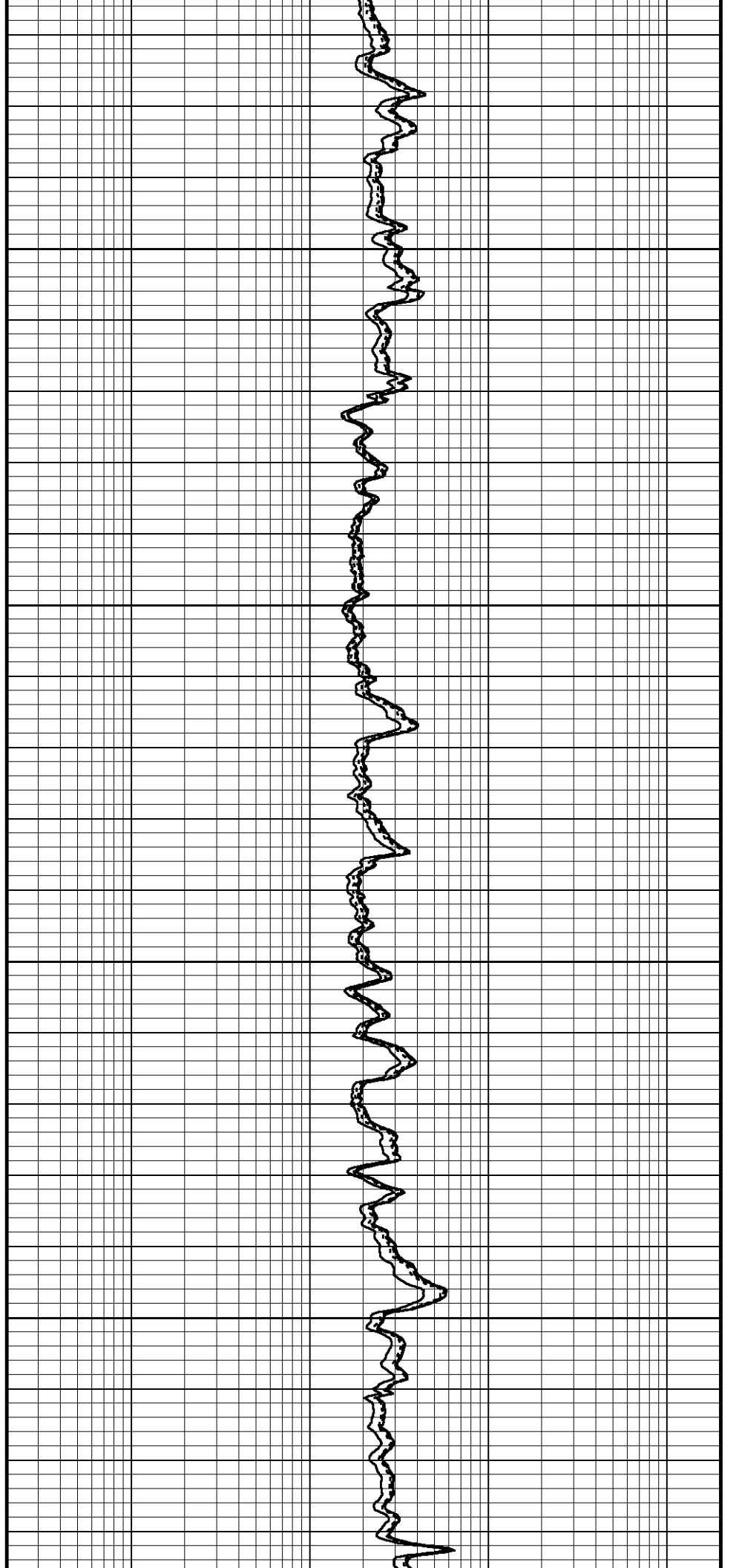
2100

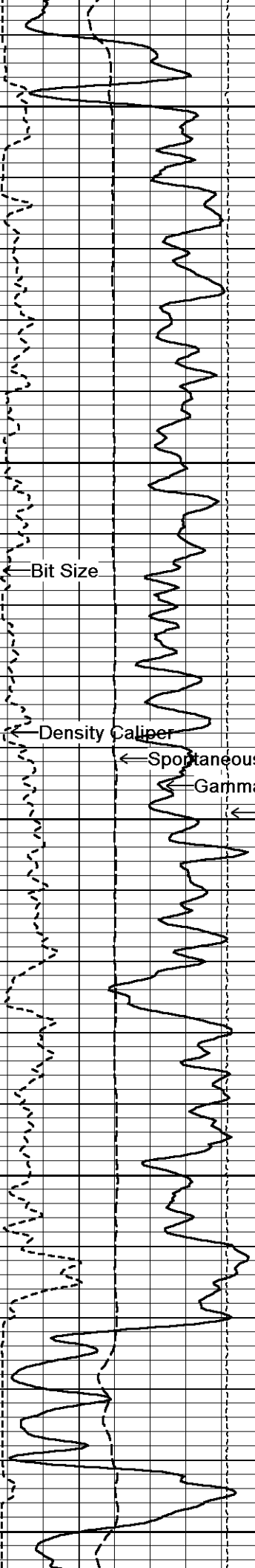
104°

2150

104°

2200





105°

2250

105°

2300

106°

106°

2400

107°

2450

Bit Size

Density Caliper

← Spontaneous Potential

← Gamma Ray

← DS 2350 hole Tension

Array Ind. One Res Rt

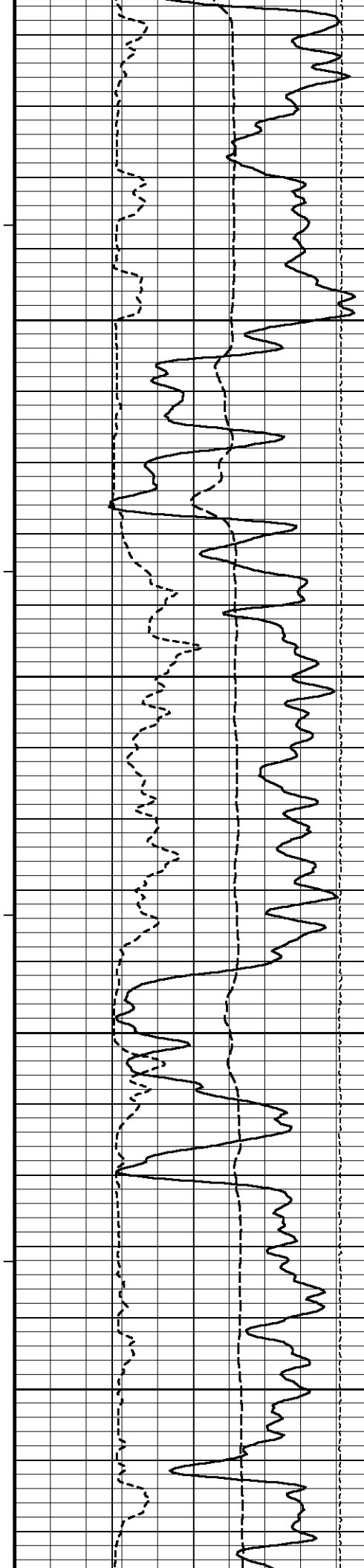
Array Induction - R850

Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr)



107°

2500

108°

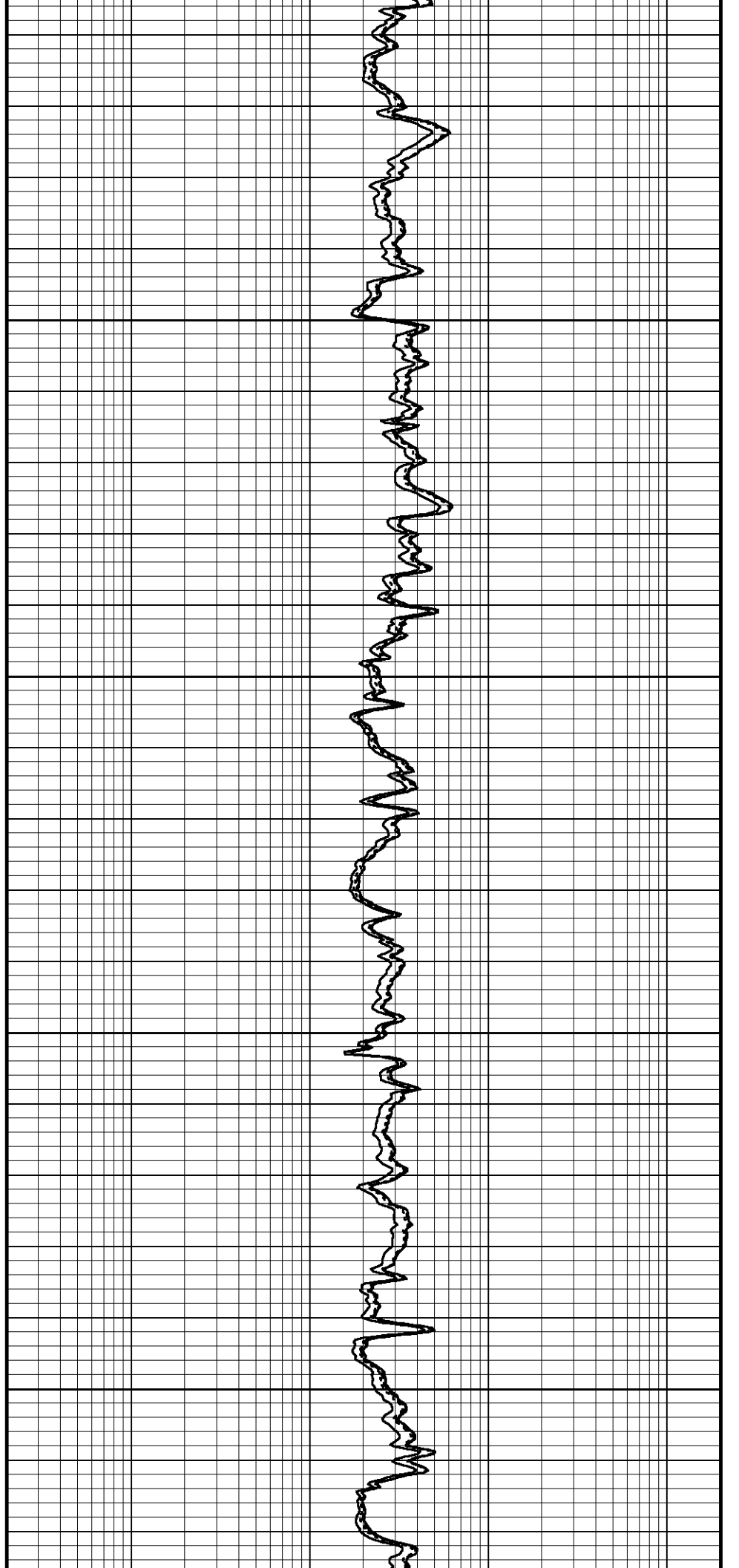
2550

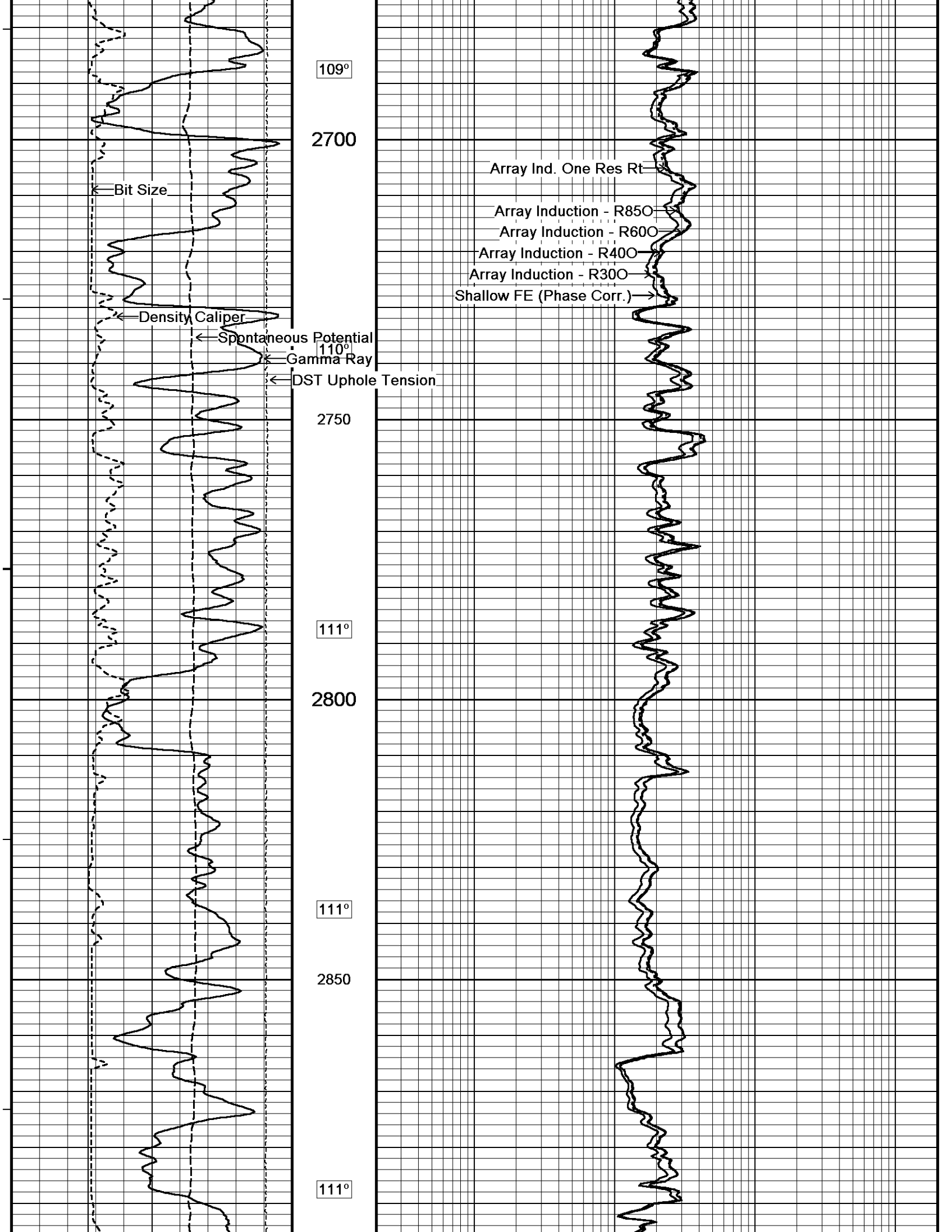
108°

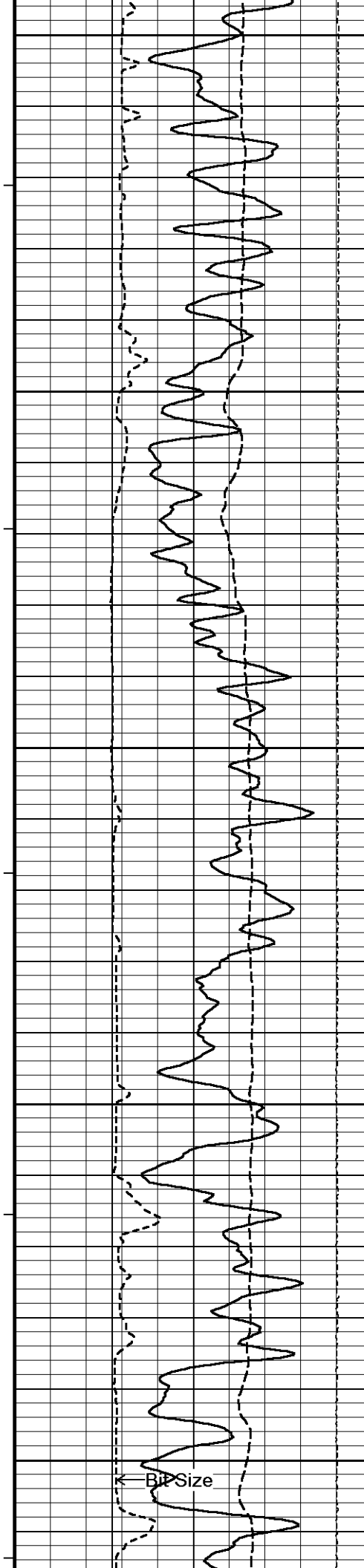
2600

109°

2650







2900

111°

2950

112°

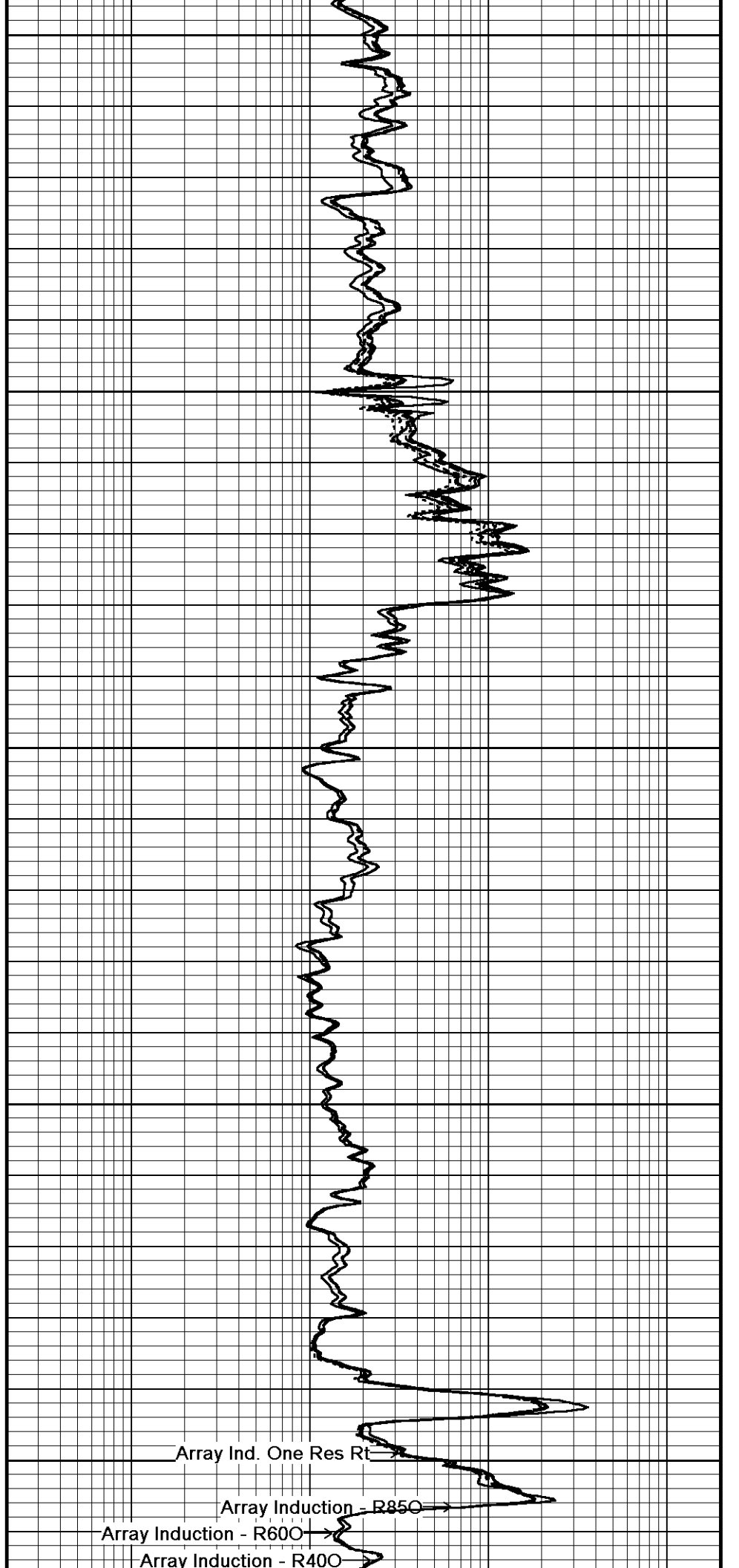
3000

113°

3050

114°

3100

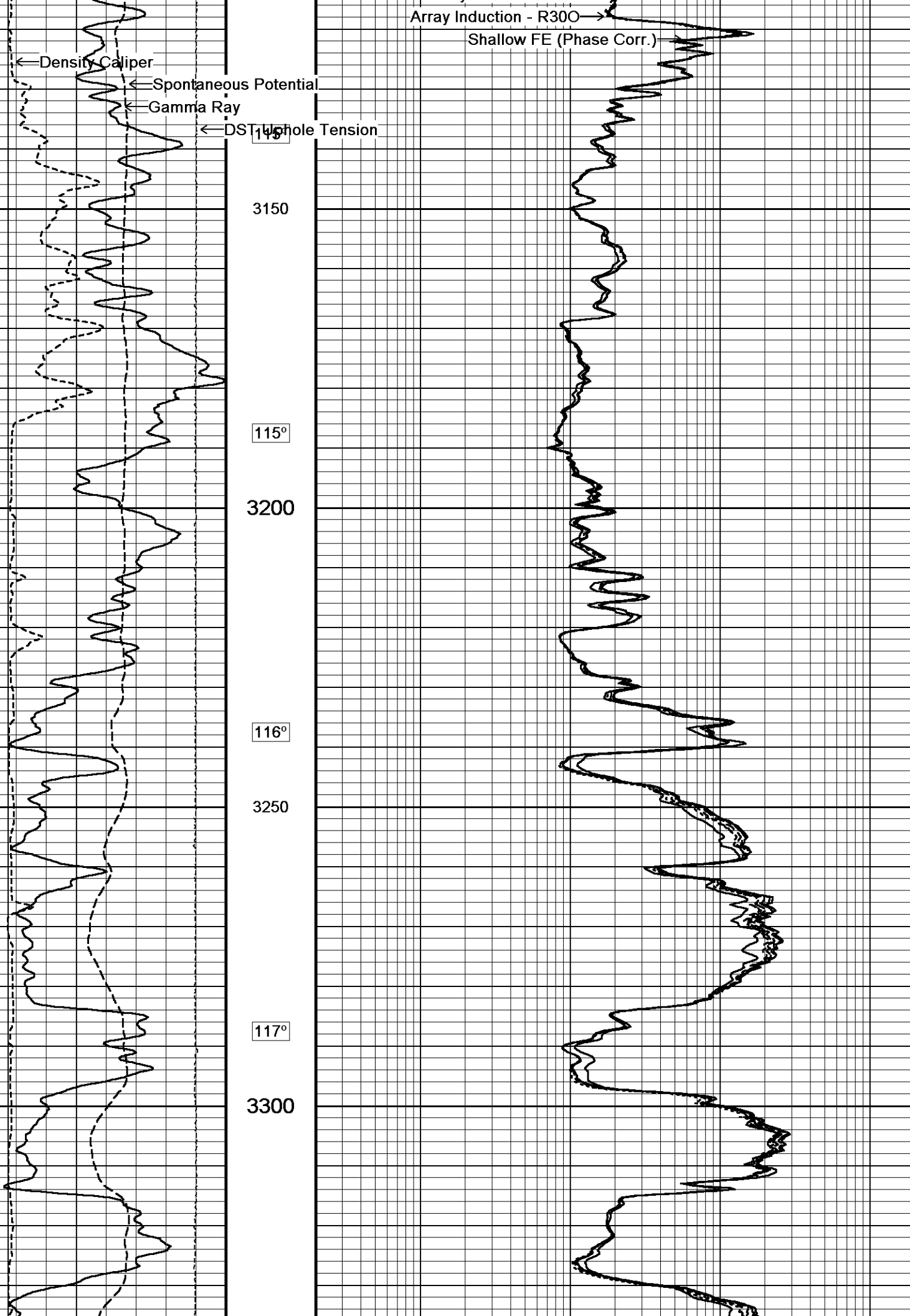


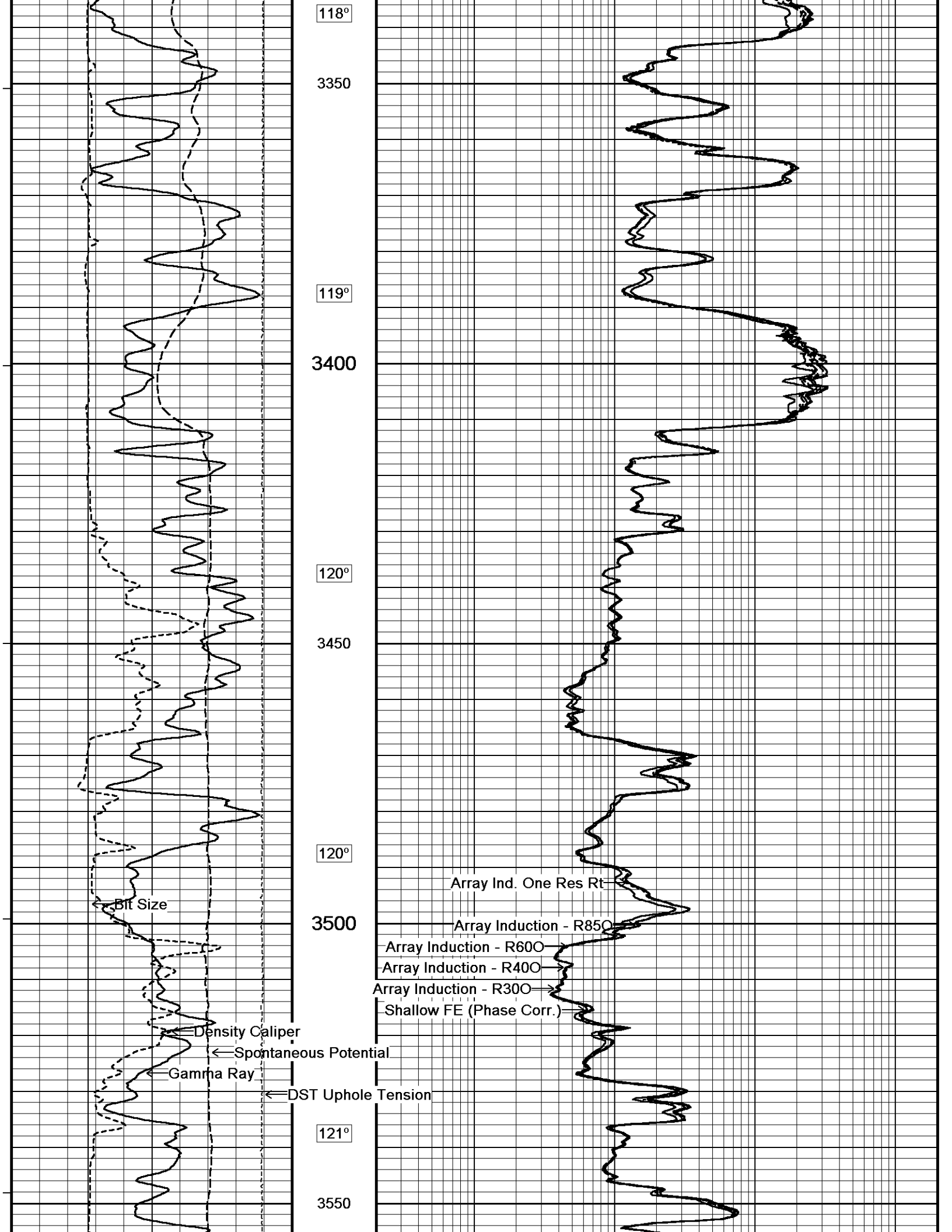
Array Ind. One Res Rt

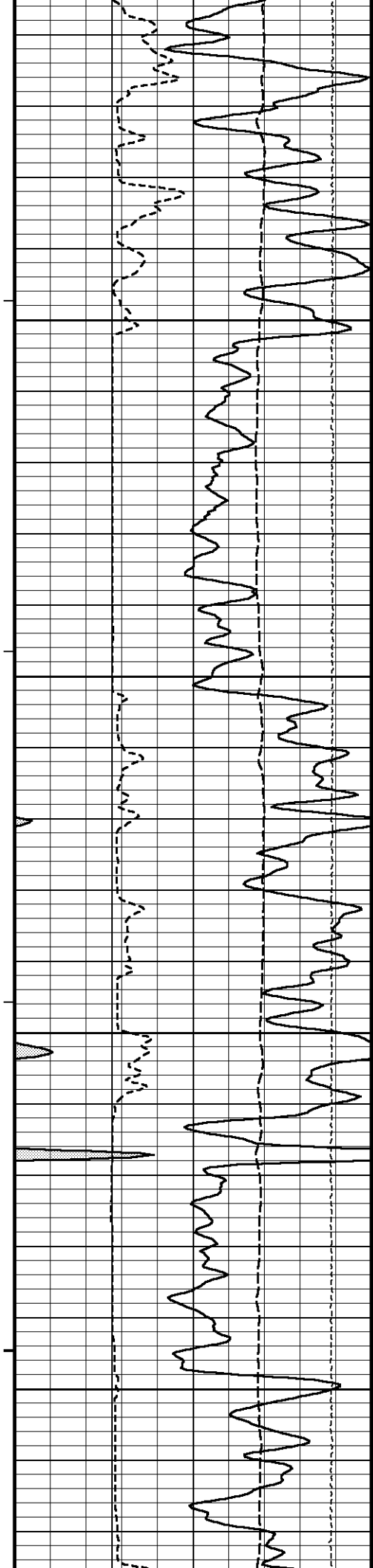
Array Induction - R850

Array Induction - R600

Array Induction - R400







121°

3600

122°

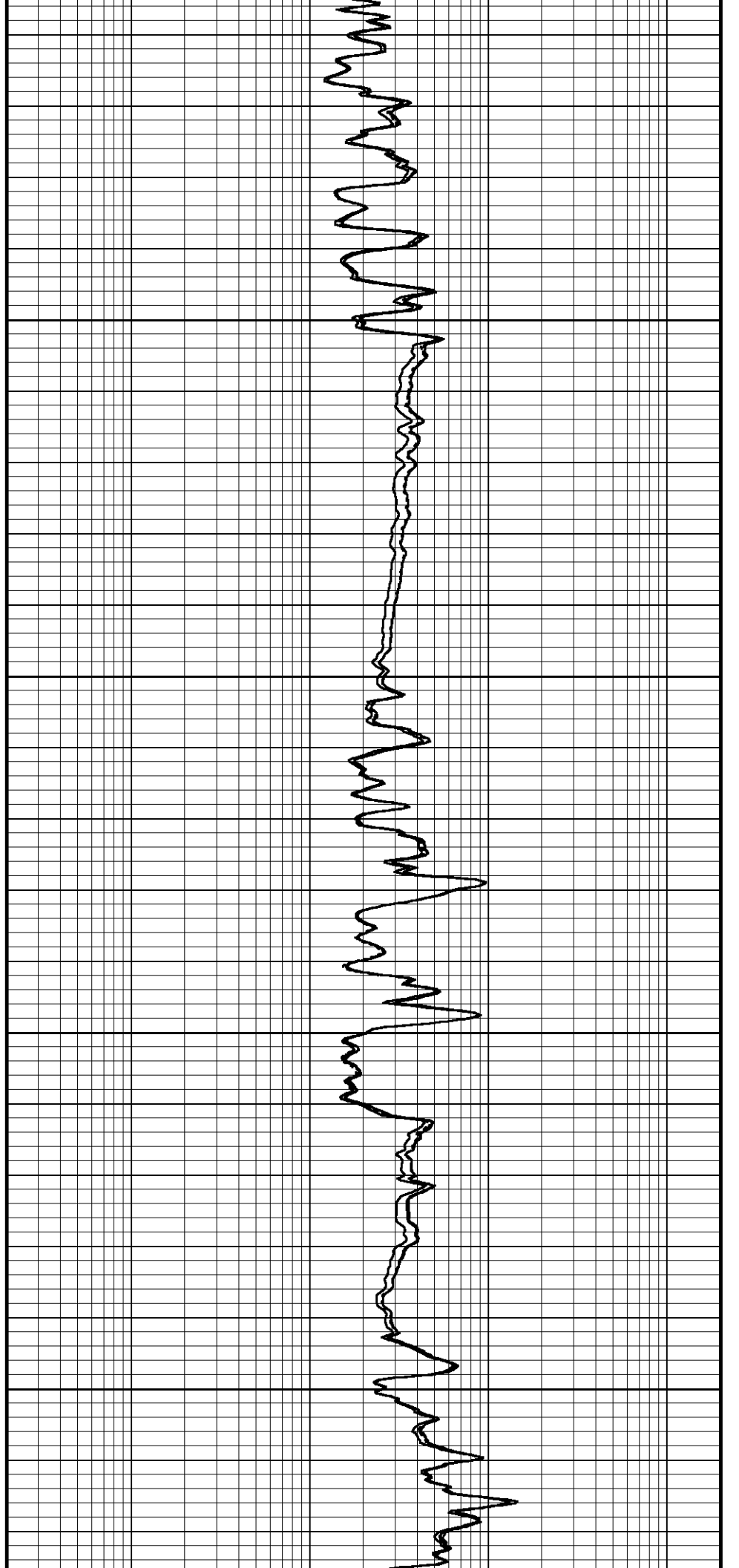
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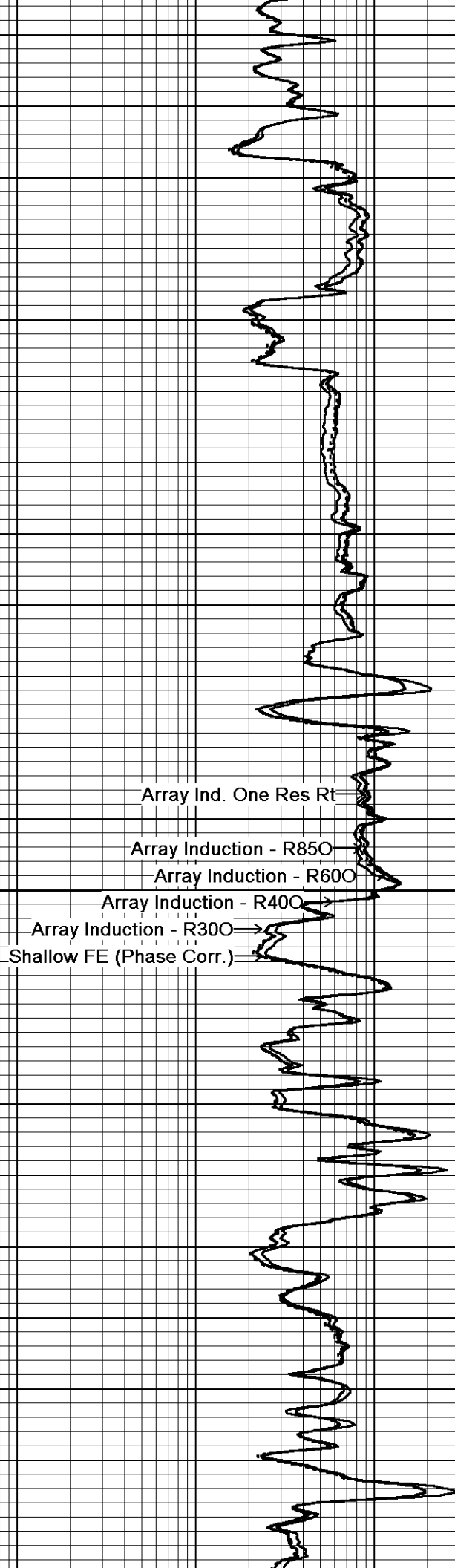
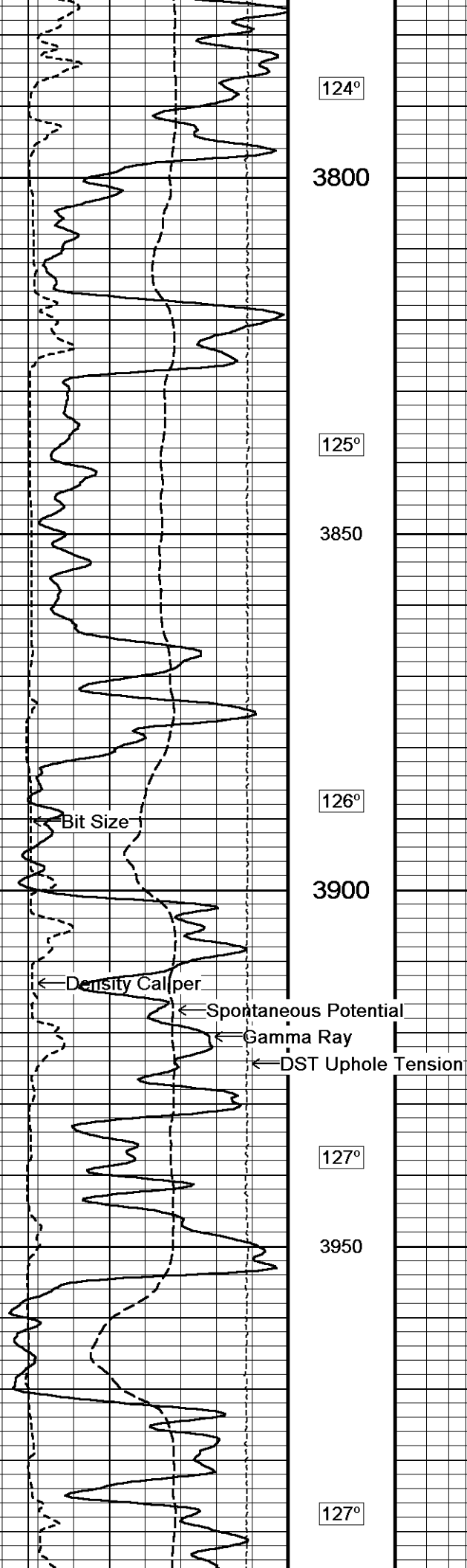
123°

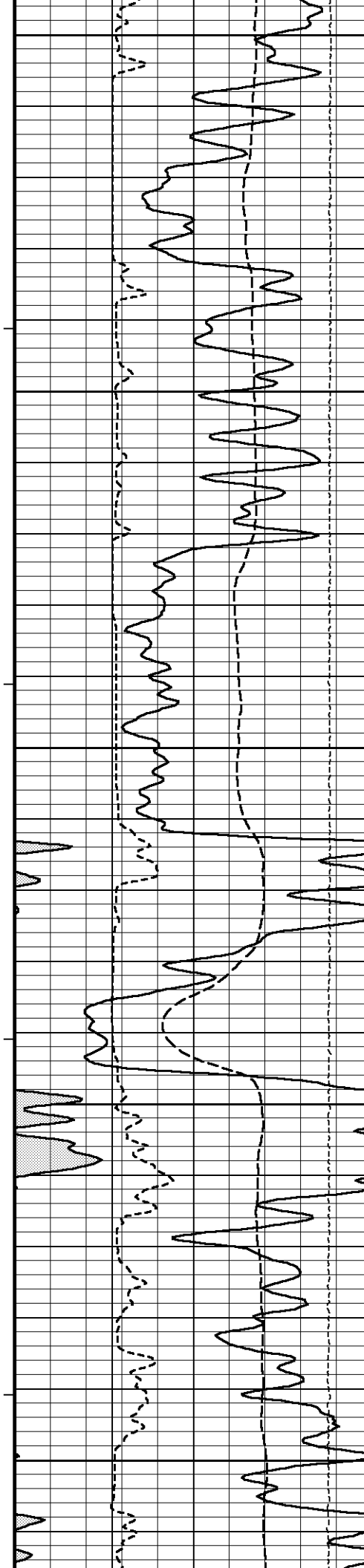
3700

123°

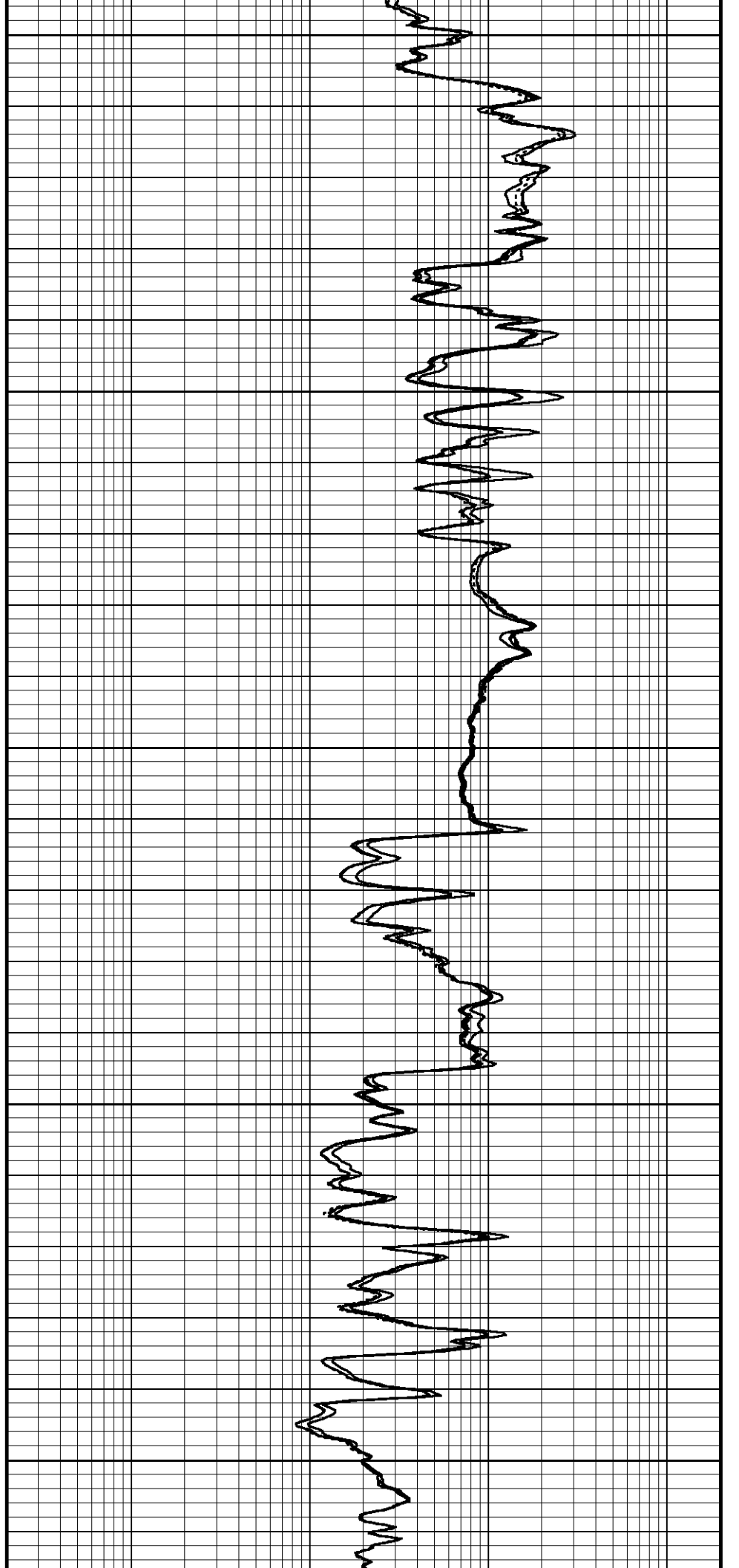
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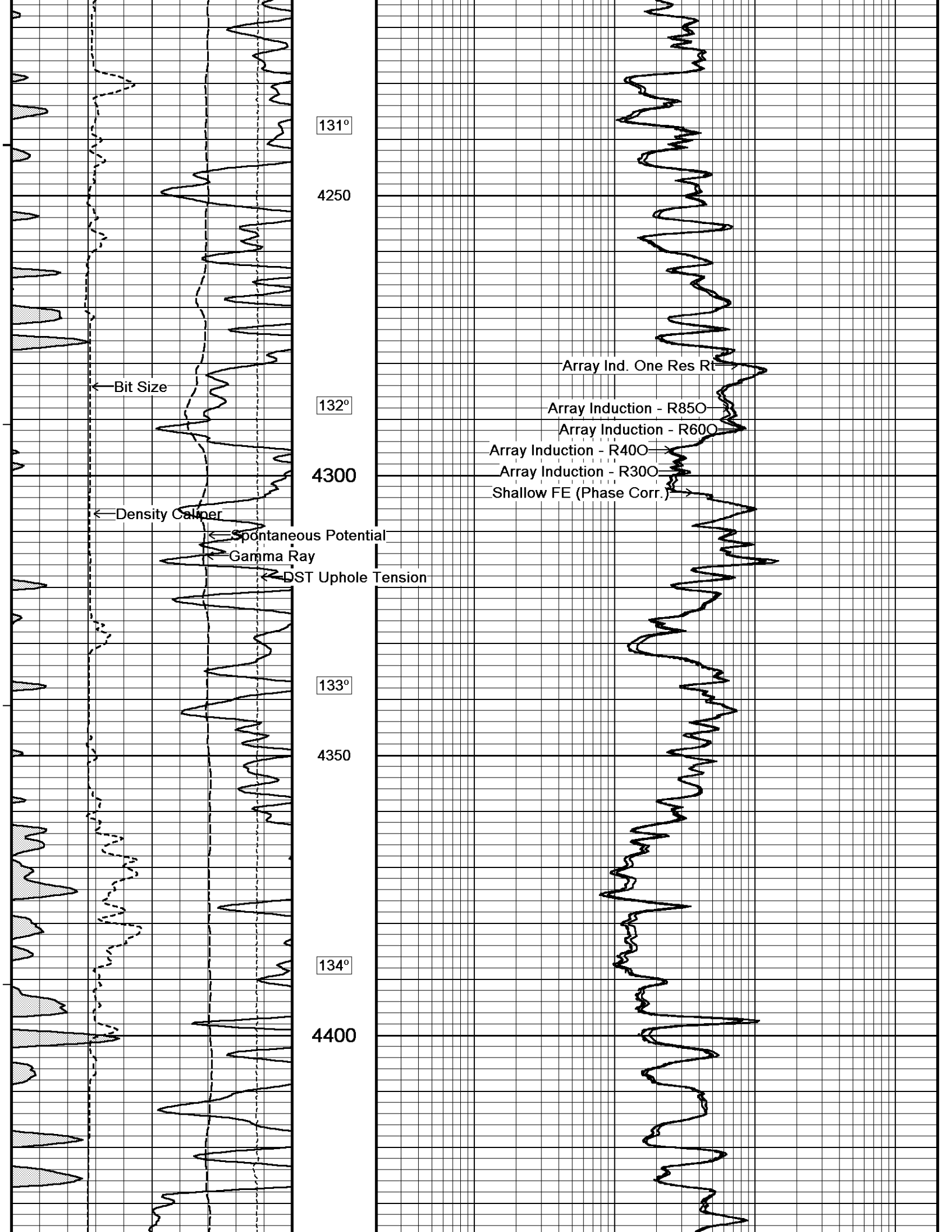


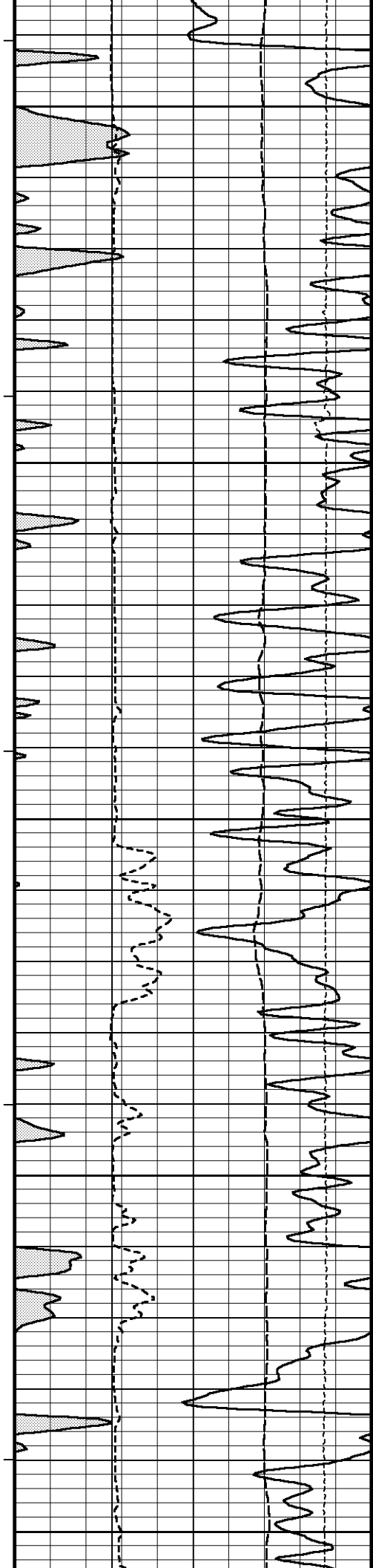




4000  
128°  
4050  
128°  
4100  
129°  
4150  
130°  
4200







135°

4450

136°

4500

137°

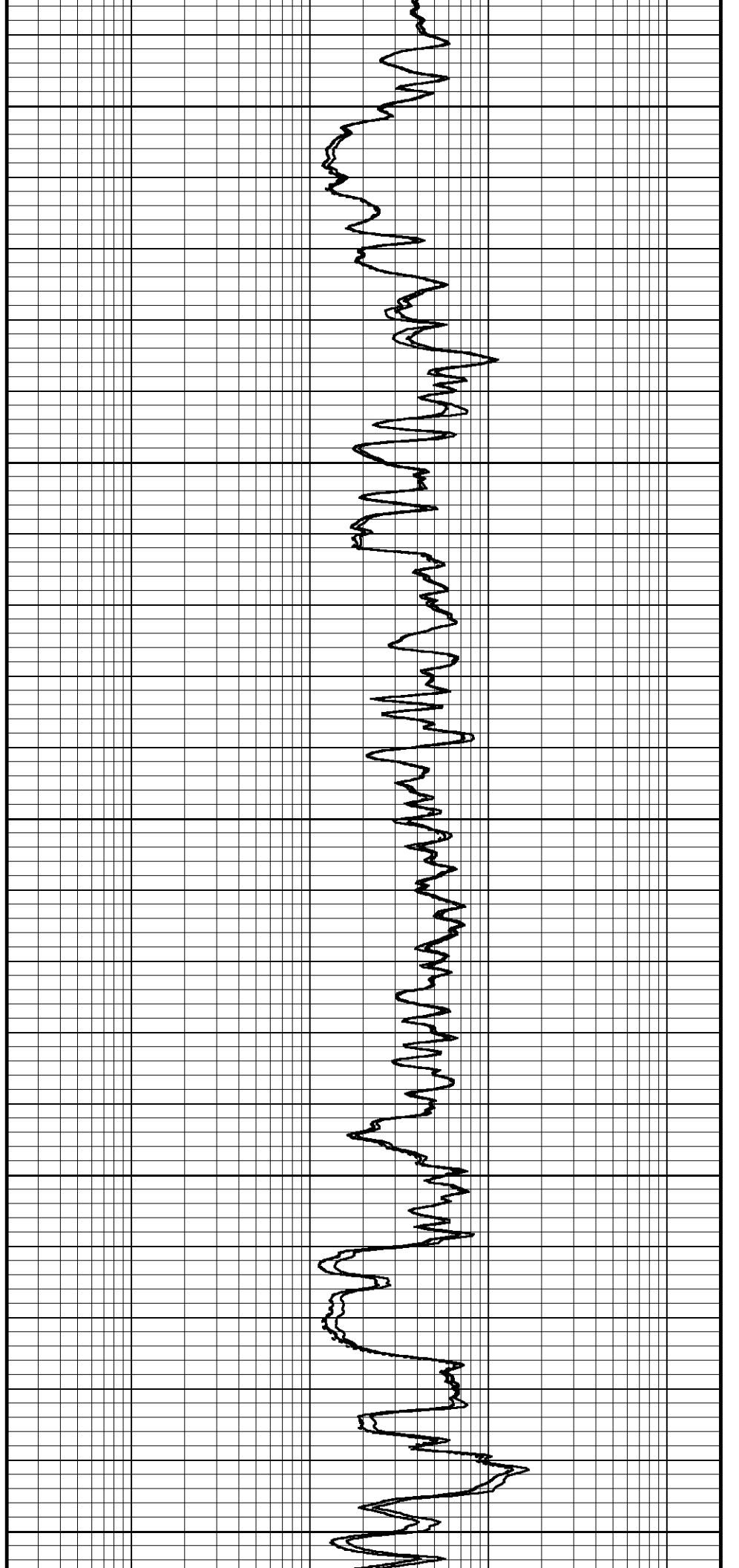
4550

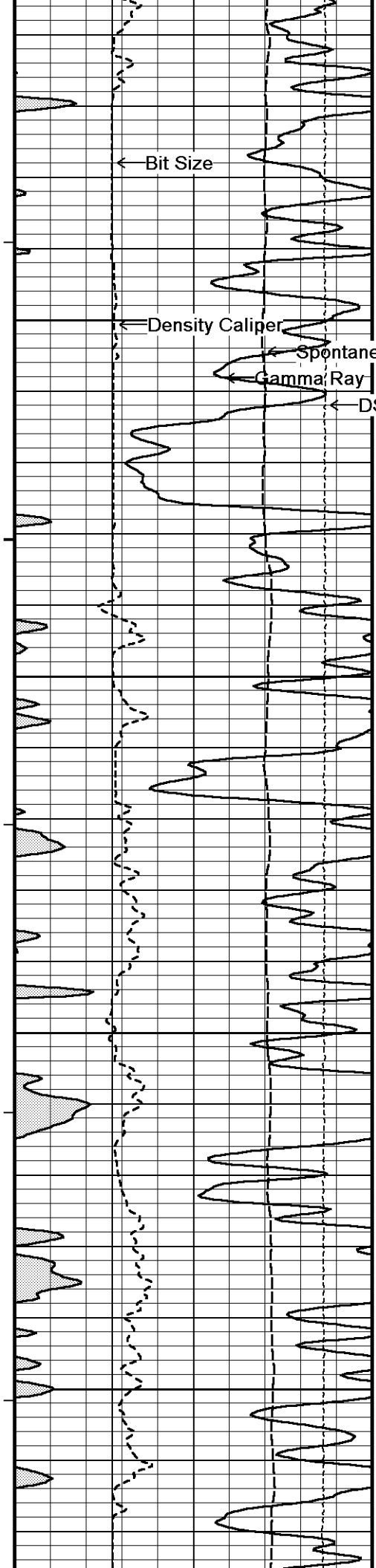
137°

4600

138°

4650





138°

4700

139°

4750

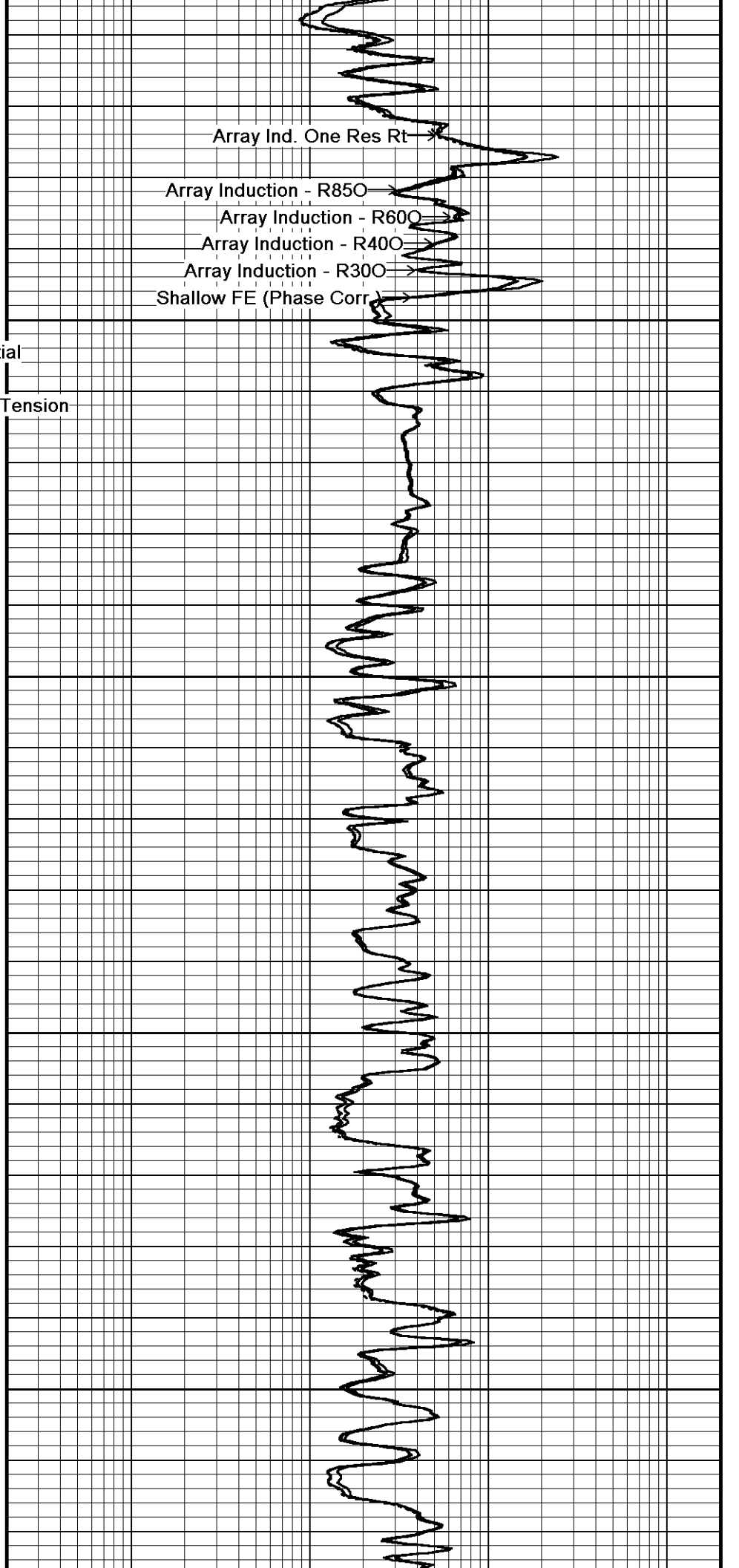
140°

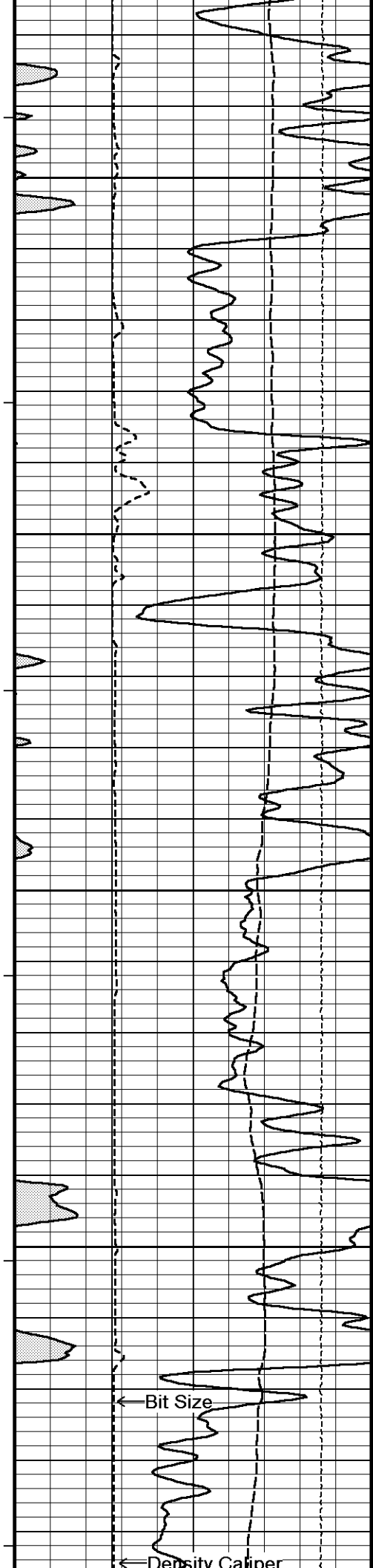
4800

140°

4850

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





141°

4900

141°

4950

142°

5000

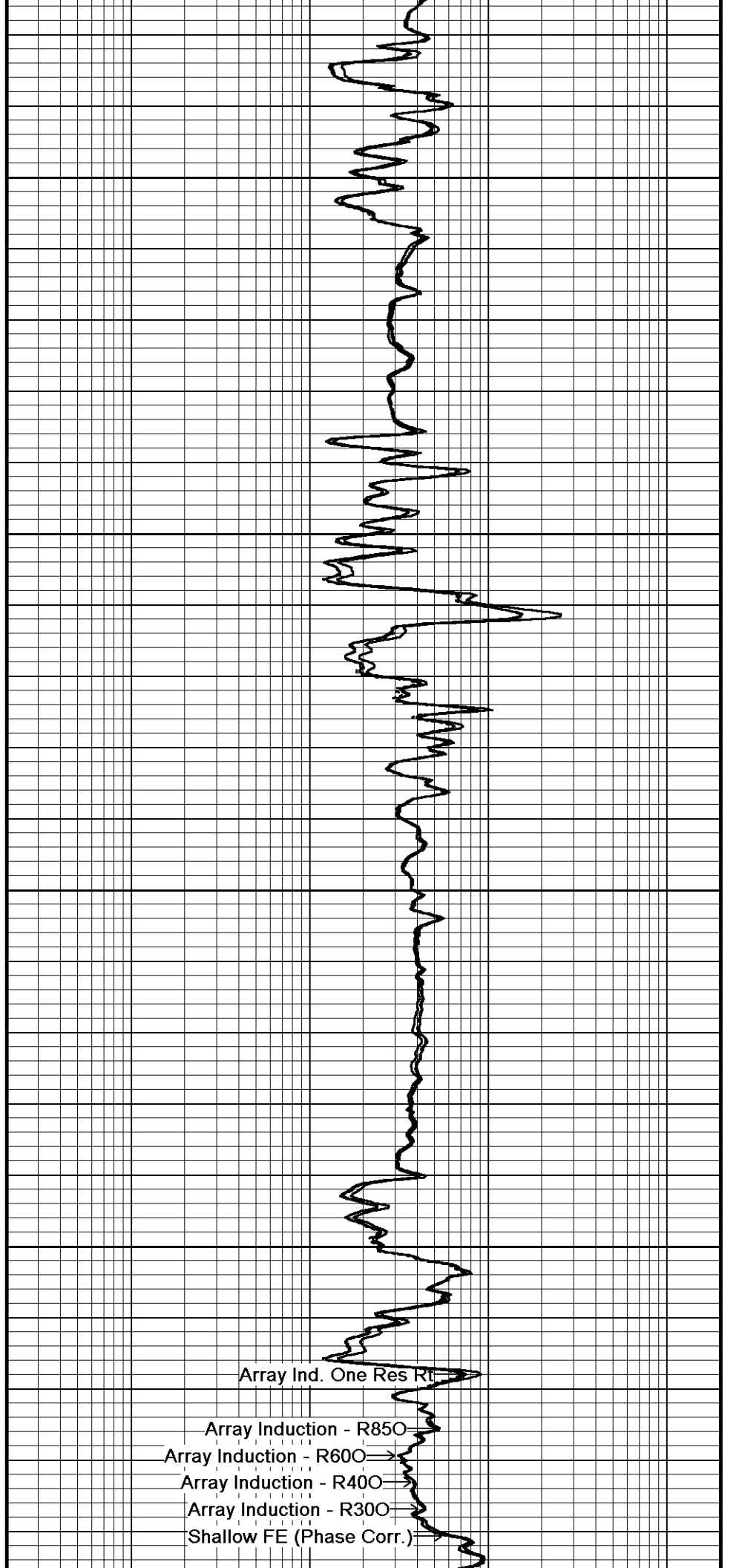
143°

5050

144°

← Bit Size

← Density Caliper



Array Ind. One Res Rt

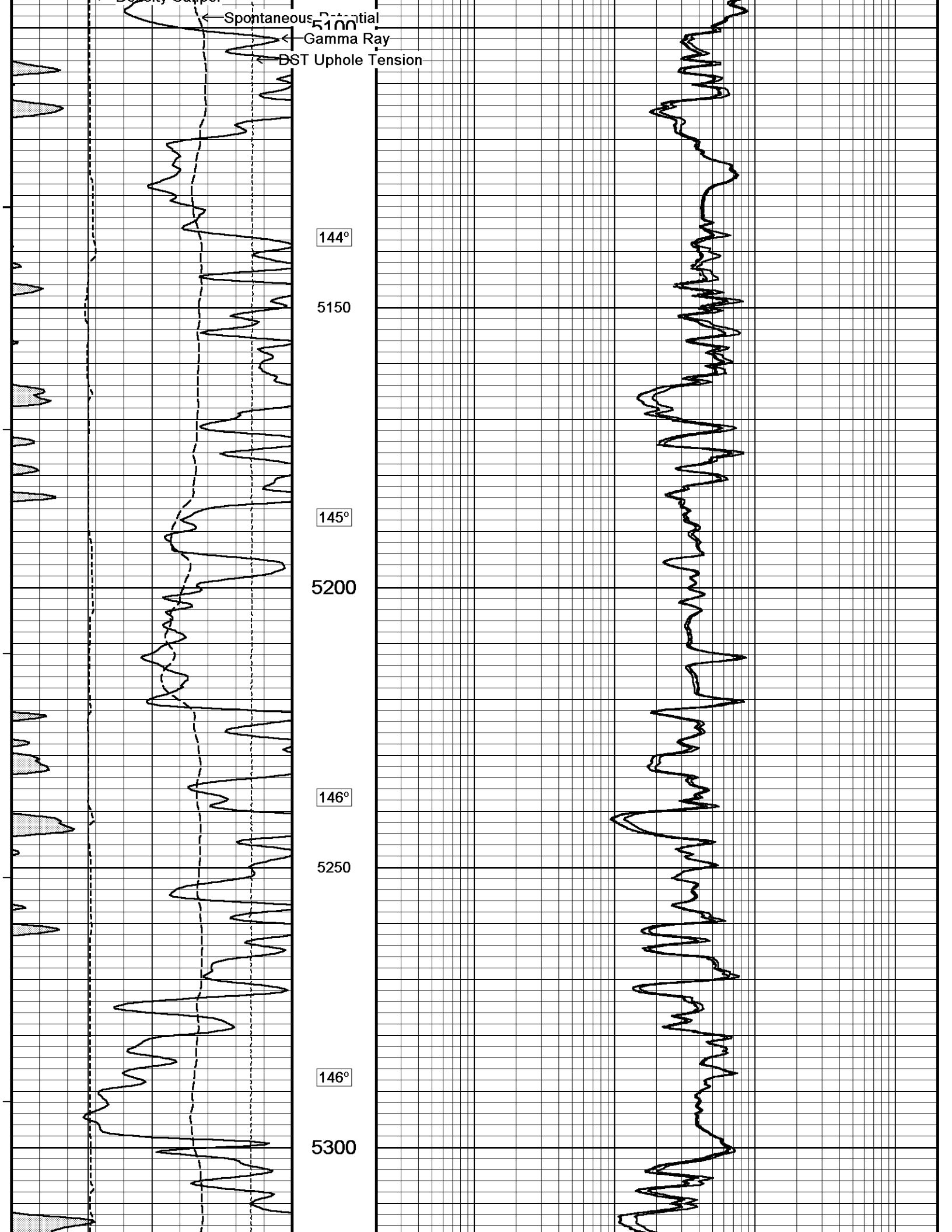
Array Induction - R850

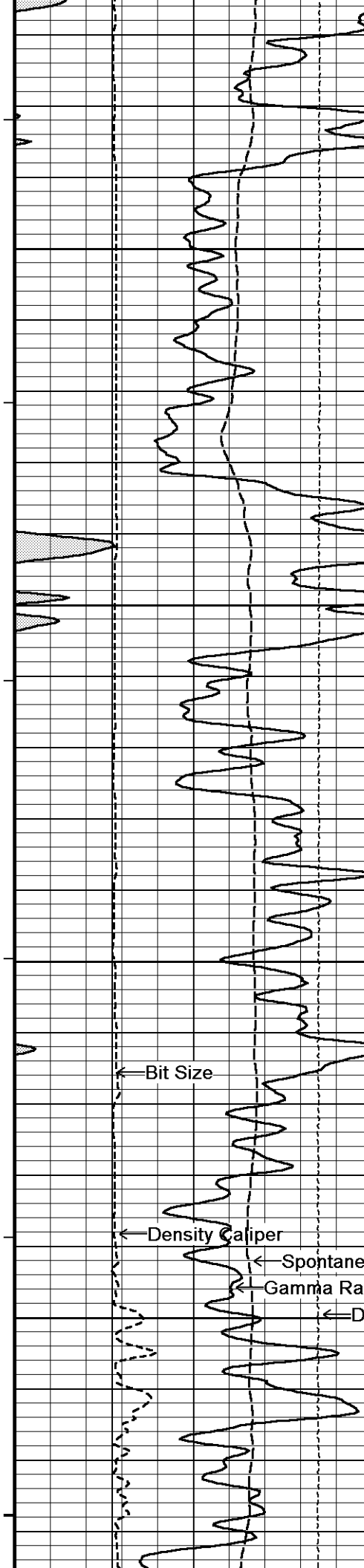
Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr.)





146°

5350

146°

5400

146°

5450

147°

5500

← Bit Size

← Density Caliper

← Spontaneous Potential

← Gamma Ray

← DST Tension

Array Ind. One Res Rt →

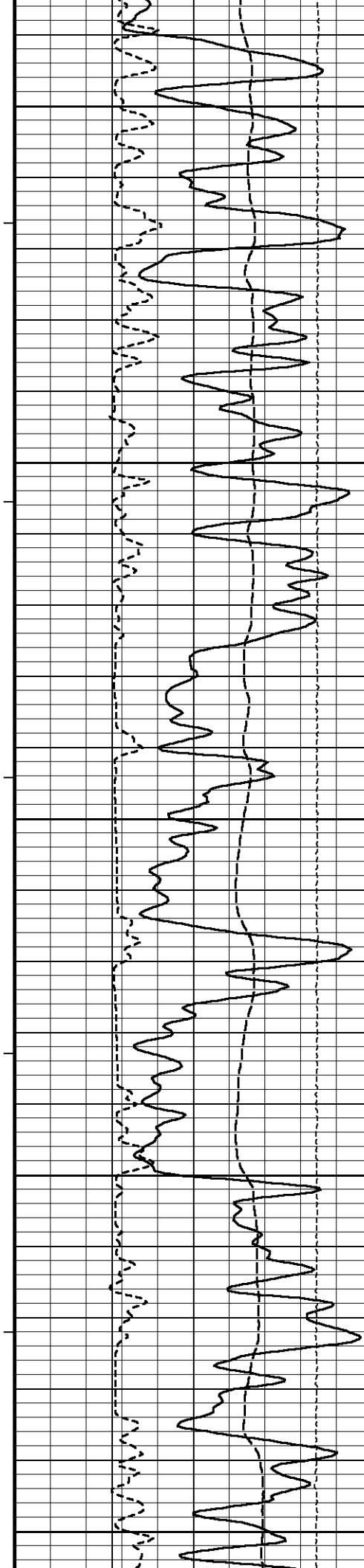
Array Induction - R850 →

Array Induction - R600 →

Array Induction - R400 →

Array Induction - R300 →

Shallow FE (Phase Corr.)



148°

5550

149°

5600

150°

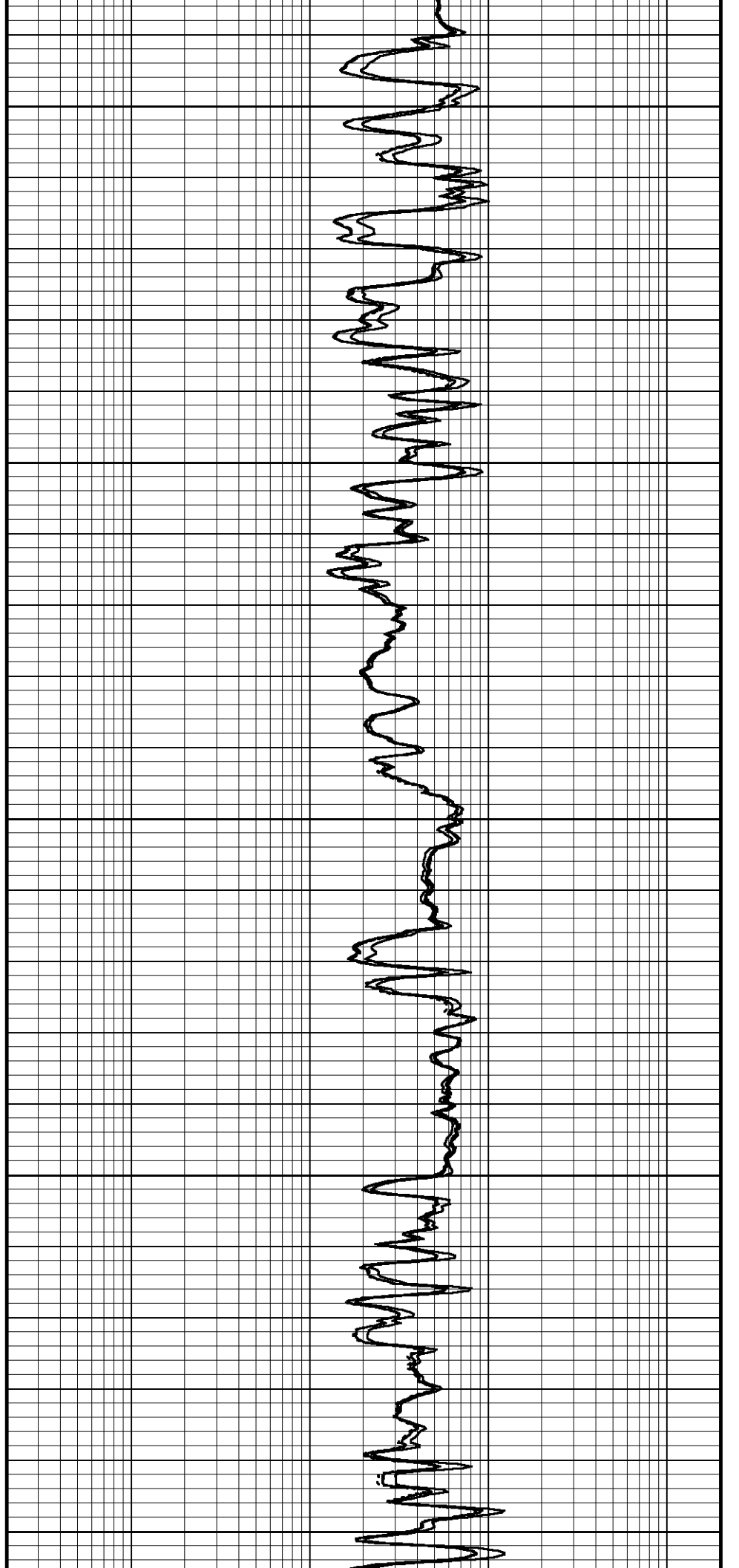
5650

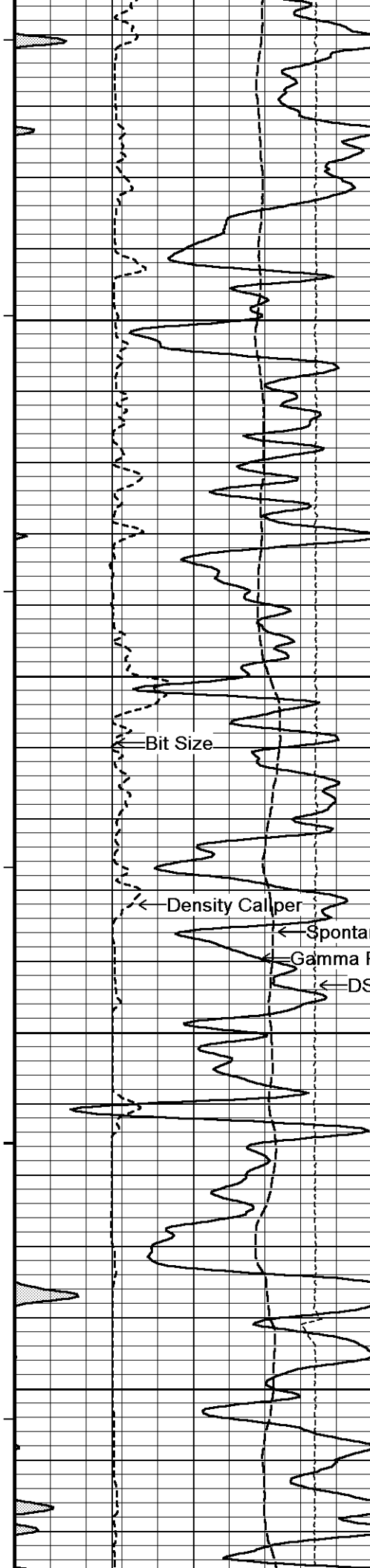
151°

5700

151°

5750





152°

5800

152°

5850

Bit Size

Density Caliper

Spontaneous Potential

Gamma Ray

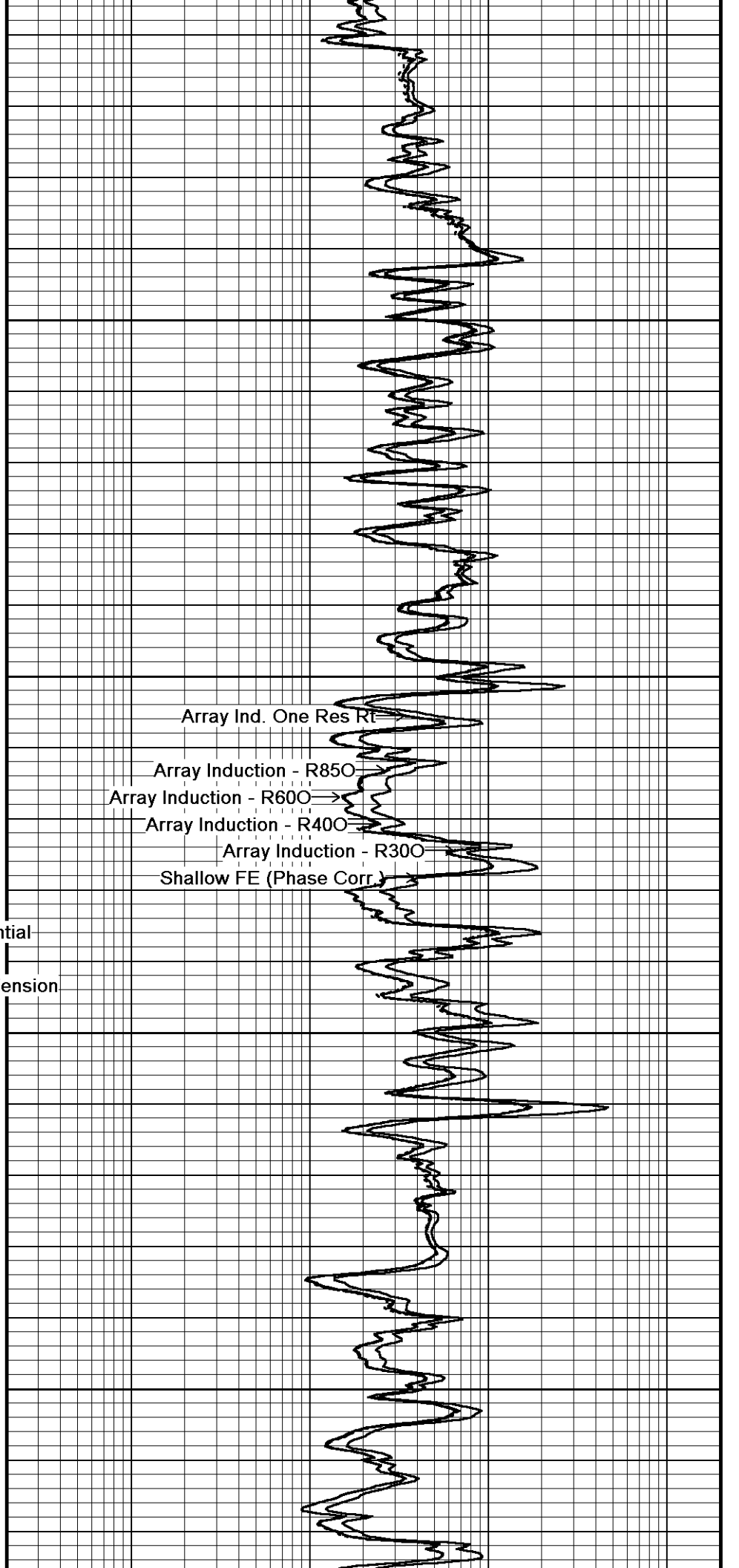
DST Uphole Tension

5900

153°

5950

153°



Array Ind. One Res Rt

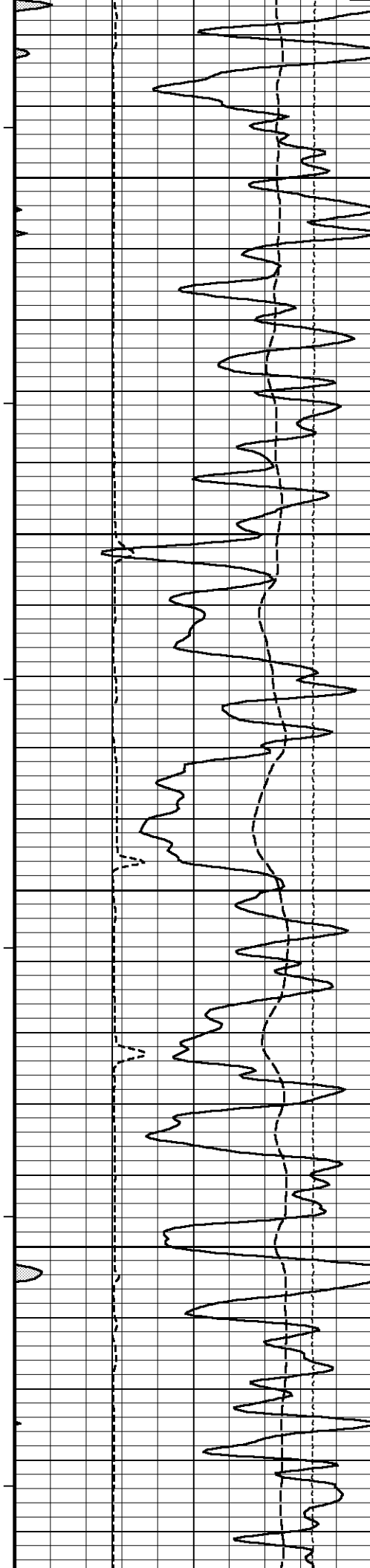
Array Induction - R850

Array Induction - R600

Array Induction - R400

Array Induction - R300

Shallow FE (Phase Corr)



155°

6000

156°

6050

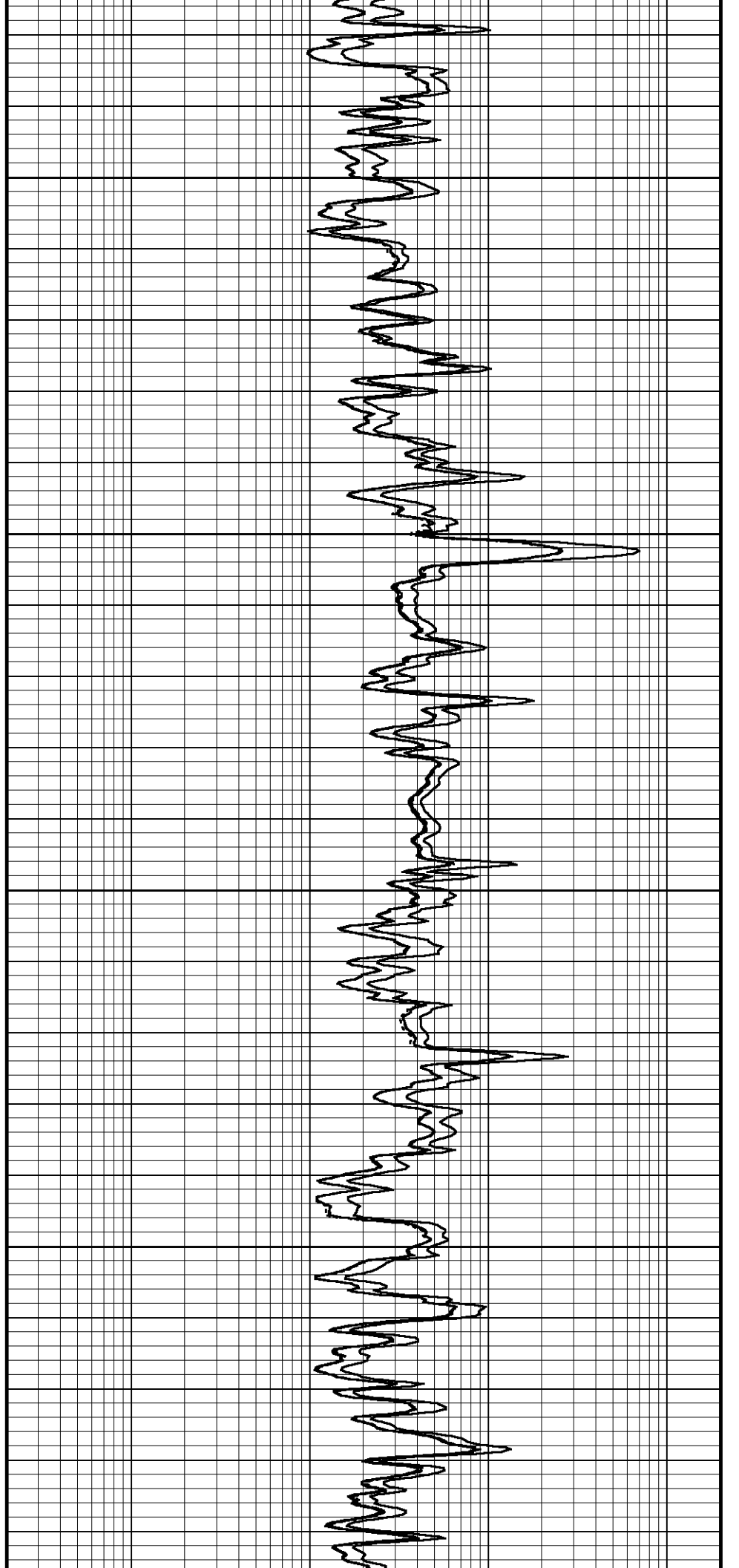
157°

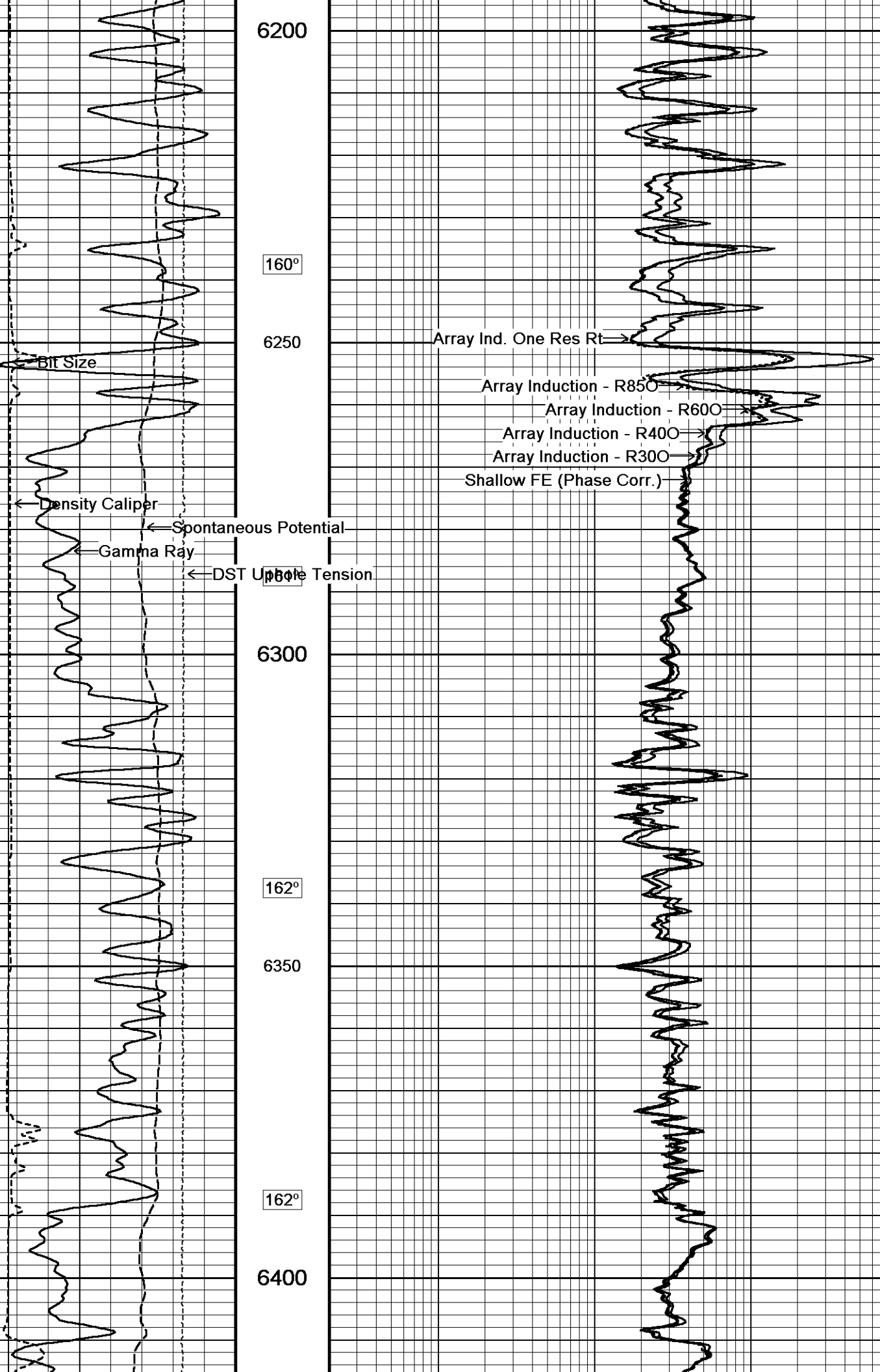
6100

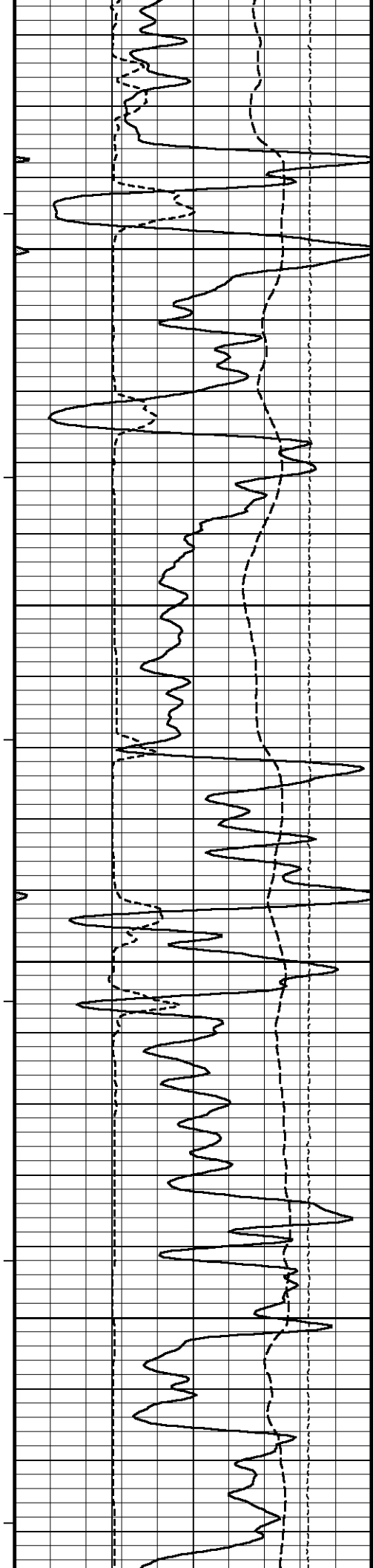
158°

6150

158°







163°

6450

163°

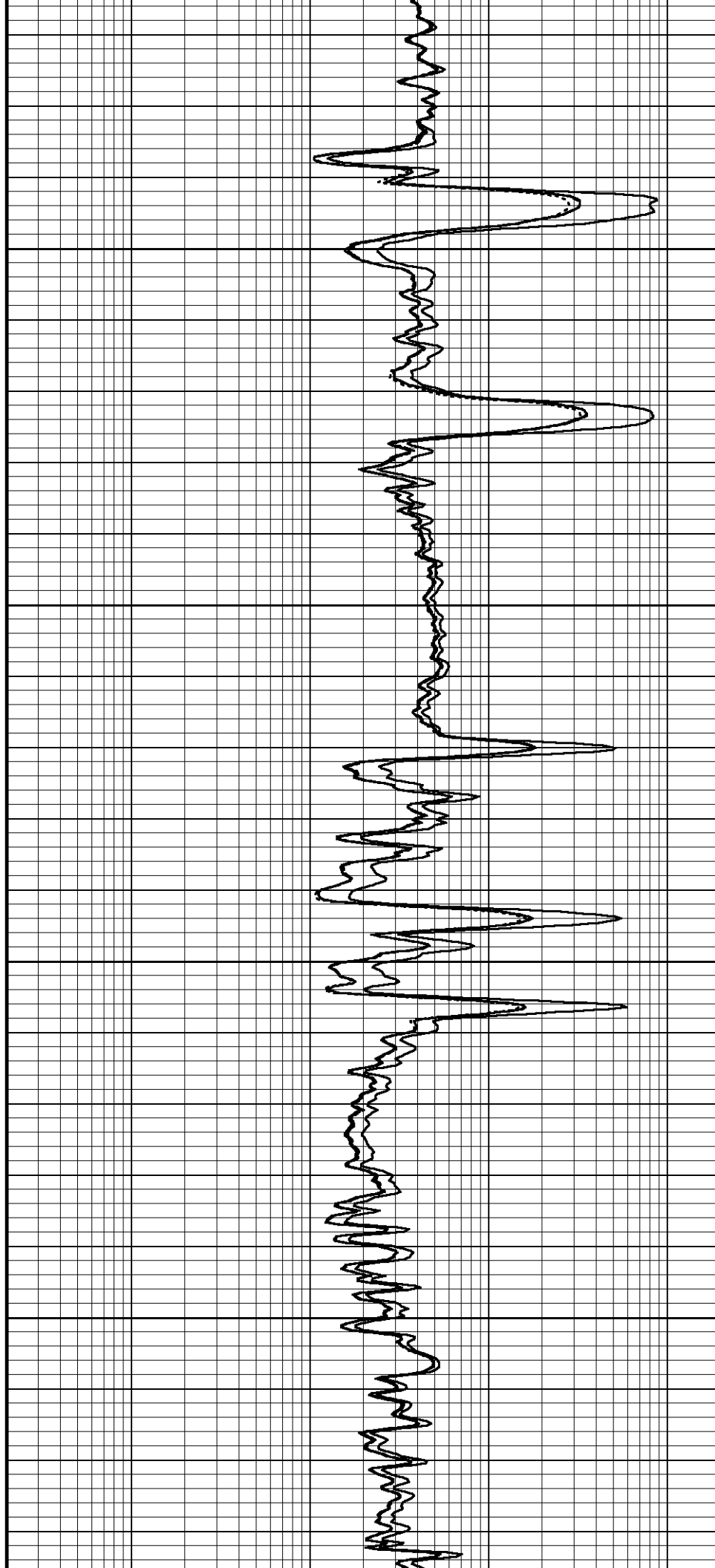
6500

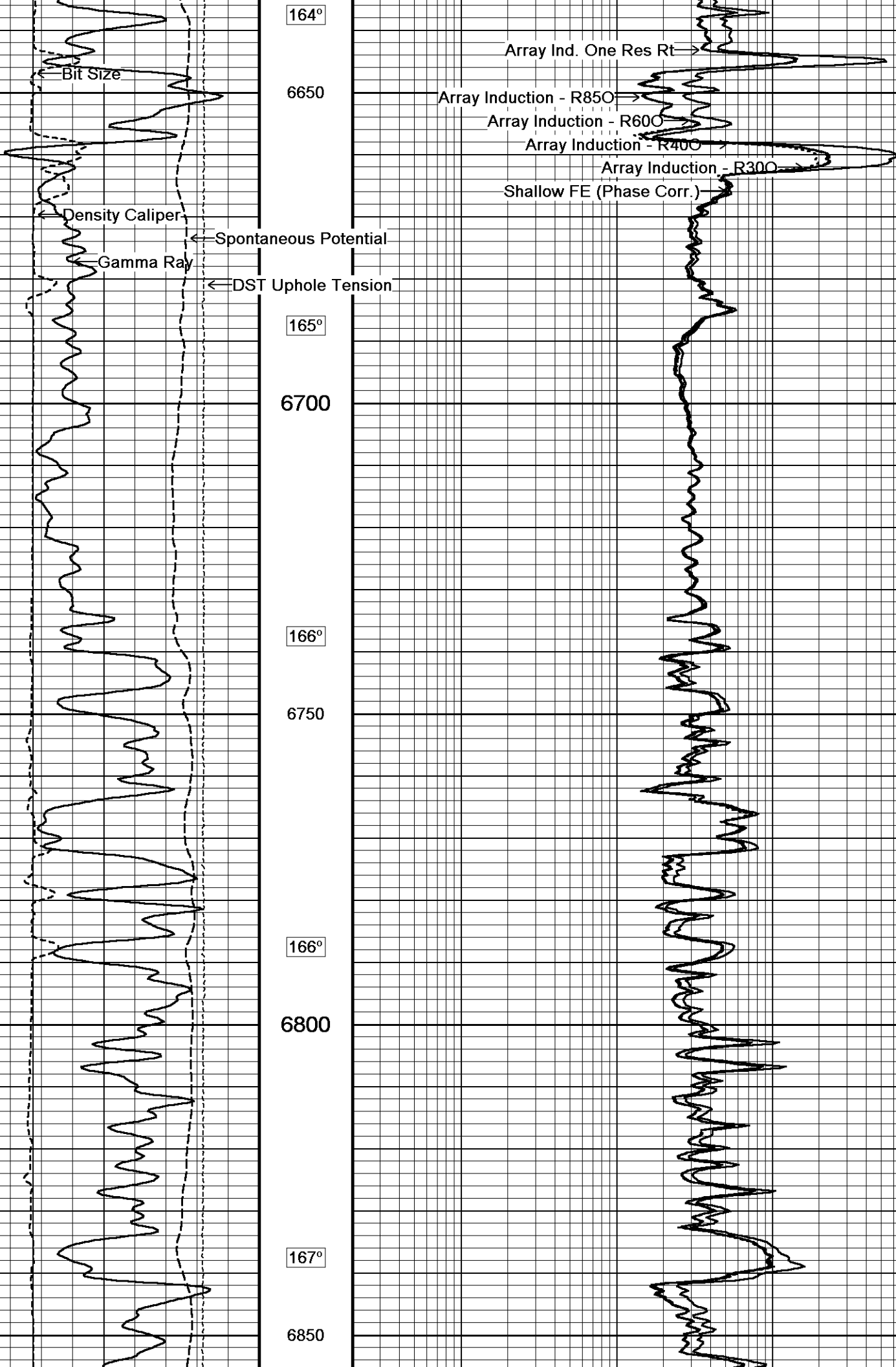
164°

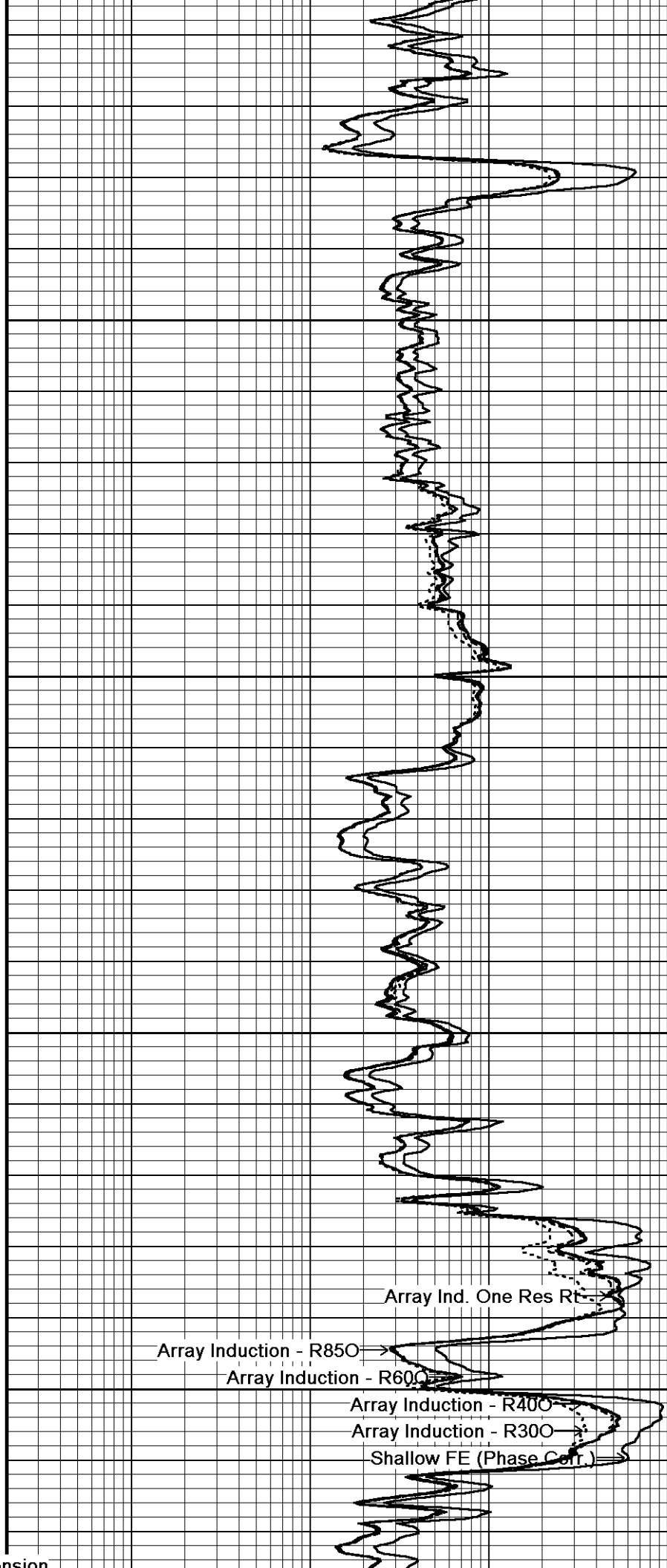
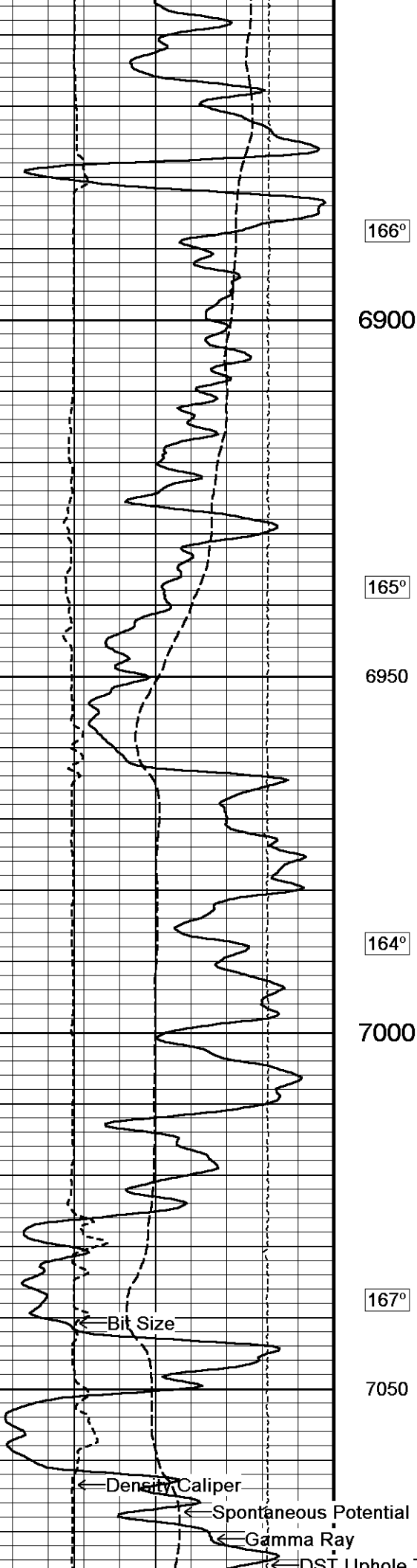
6550

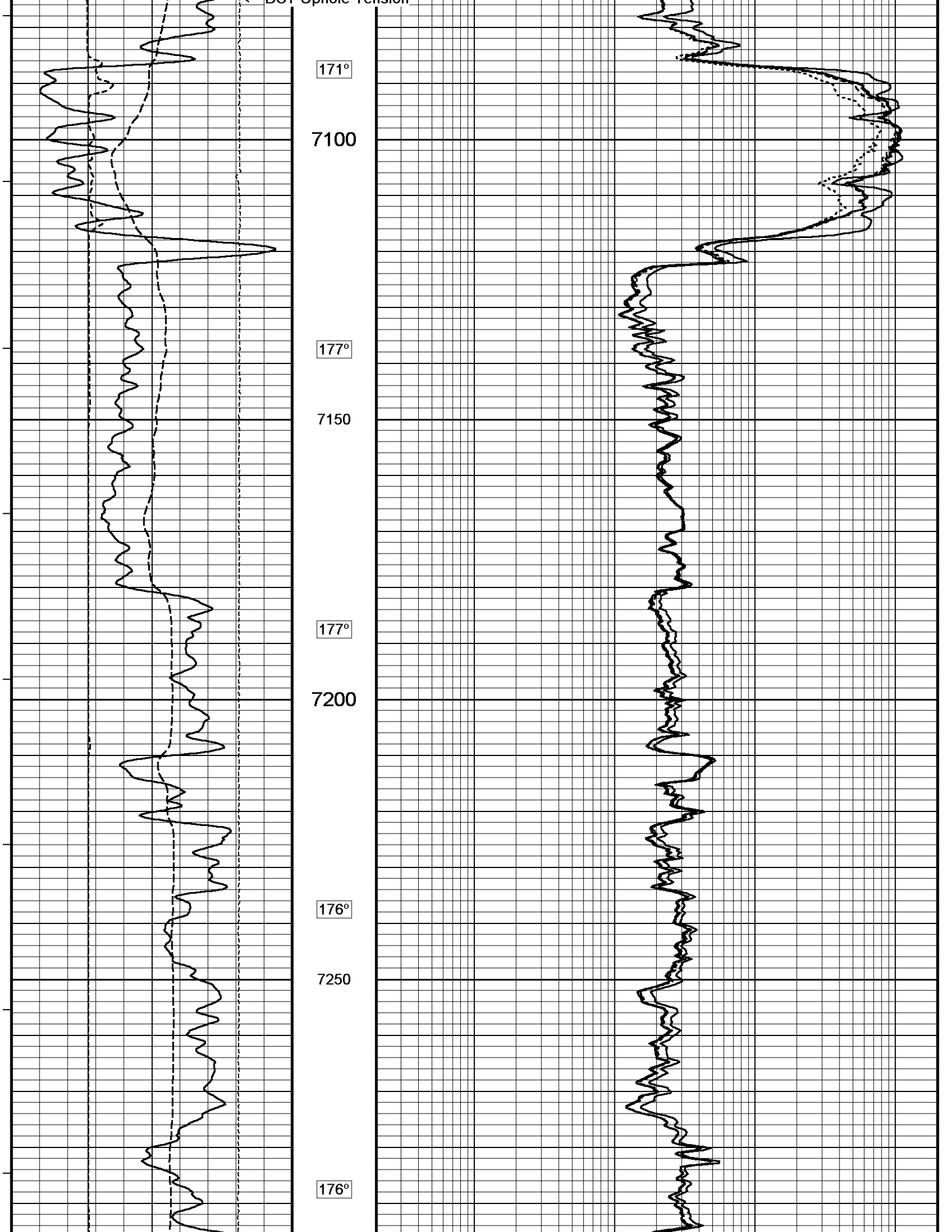
163°

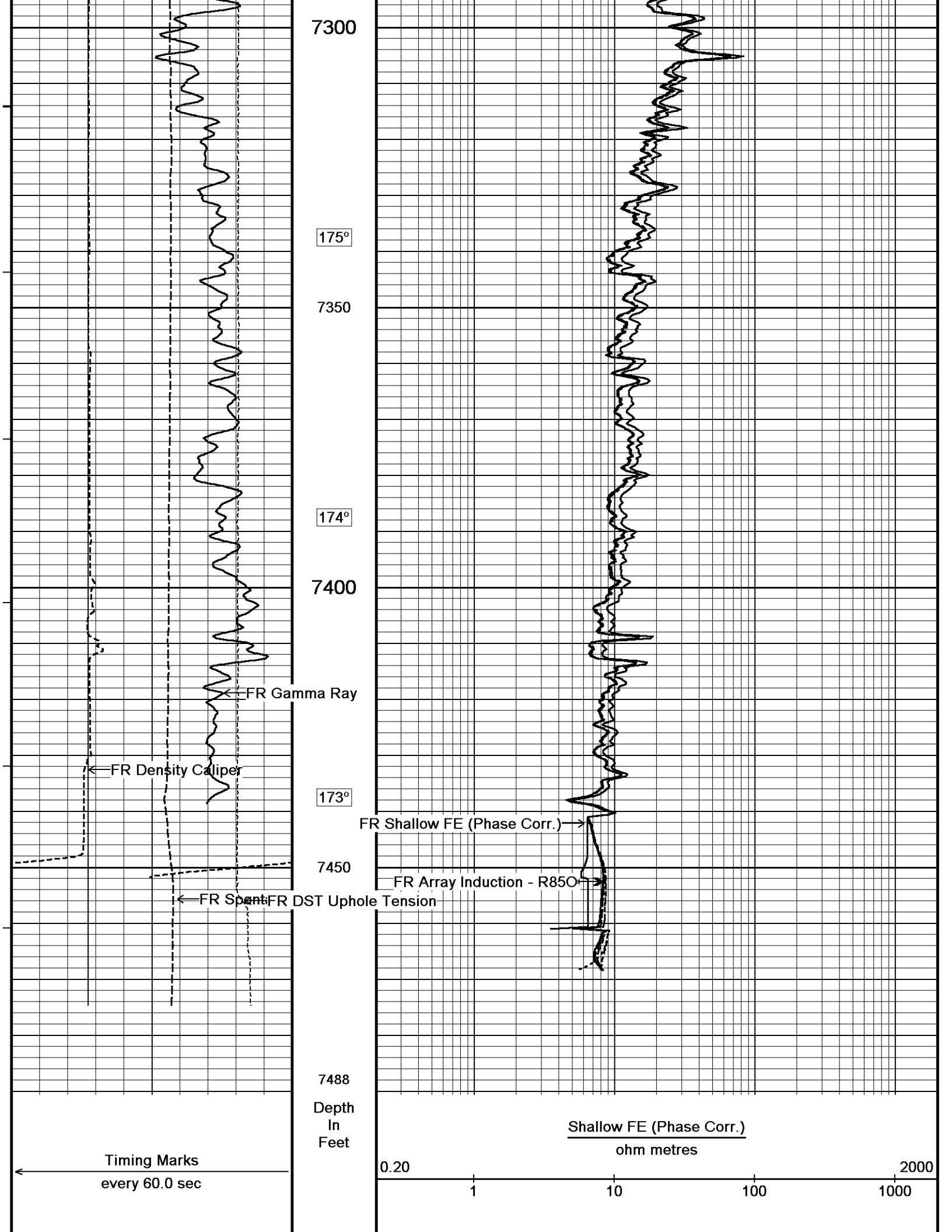
6600

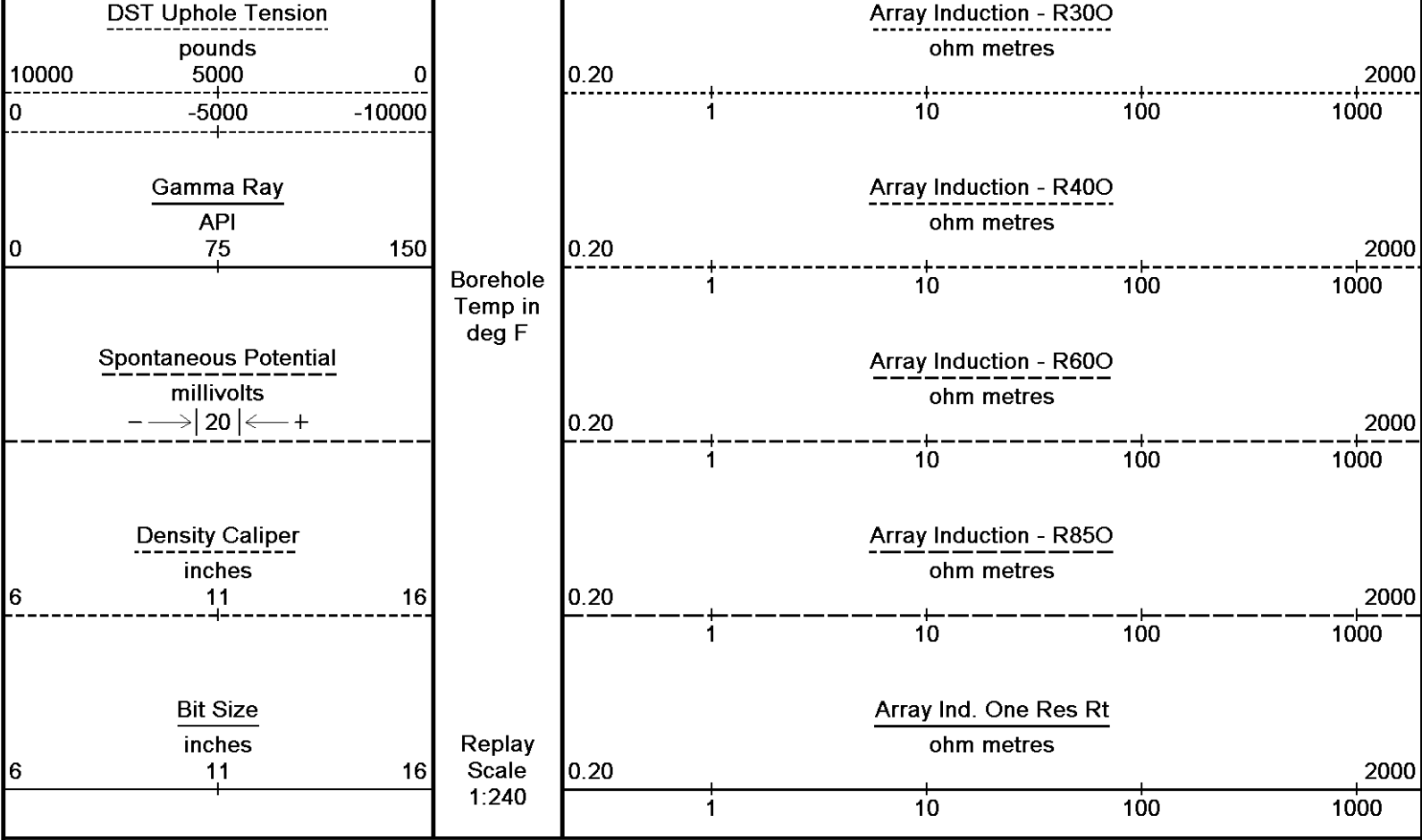










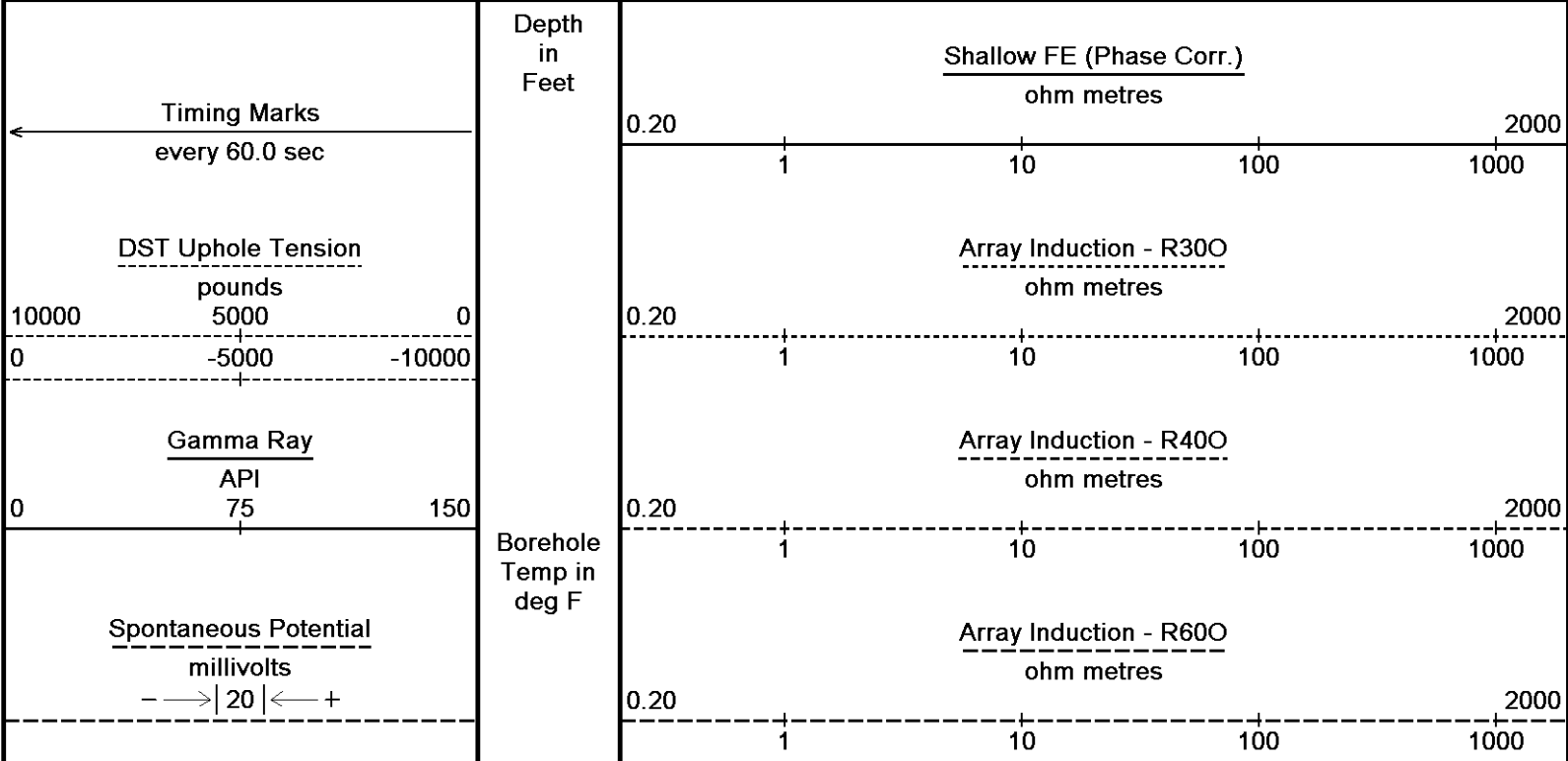


Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 23-FEB-2011 03:17  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta  
 Recorded on 22-FEB-2011 23:21  
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

↑ **5 INCH MAIN LOG** ↑

↓ **OVERLAY** ↓

Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 23-FEB-2011 03:17  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta  
 Recorded on 22-FEB-2011 23:21  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\RPT2.dta  
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198



Density Caliper

inches

6 11 16

Bit Size

inches

6 11 16

Replay  
Scale  
1:240

7200

176°

7250

176°

7300

175°

7350

Array Induction - R850

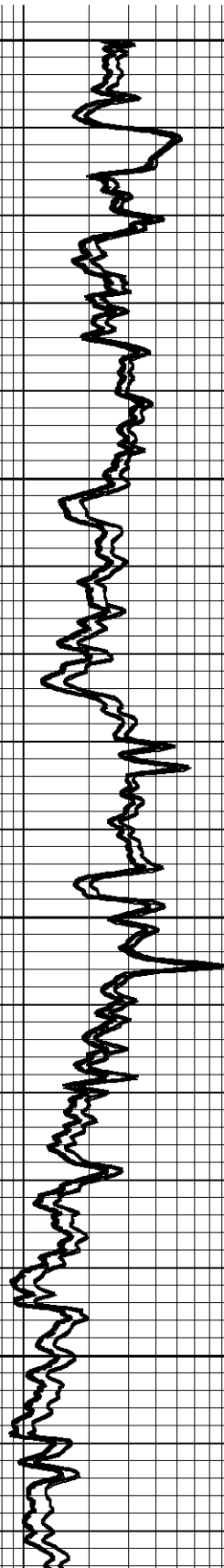
ohm metres

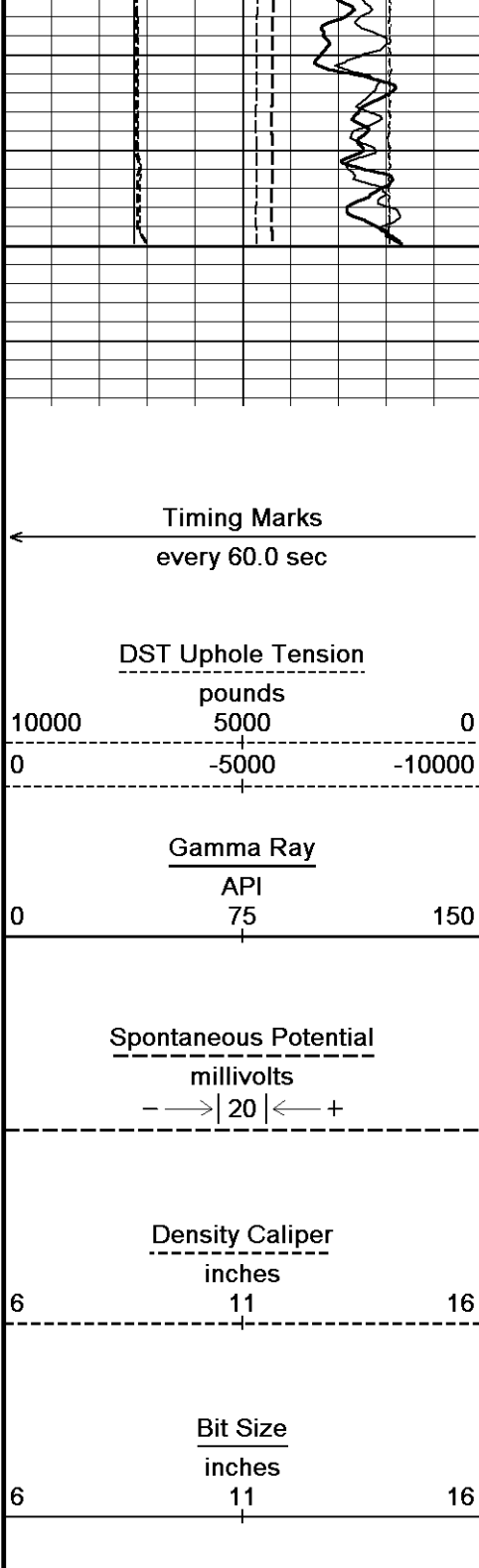
0.20 1 10 100 1000 2000

Array Ind. One Res Rt

ohm metres

0.20 1 10 100 1000 2000





174°

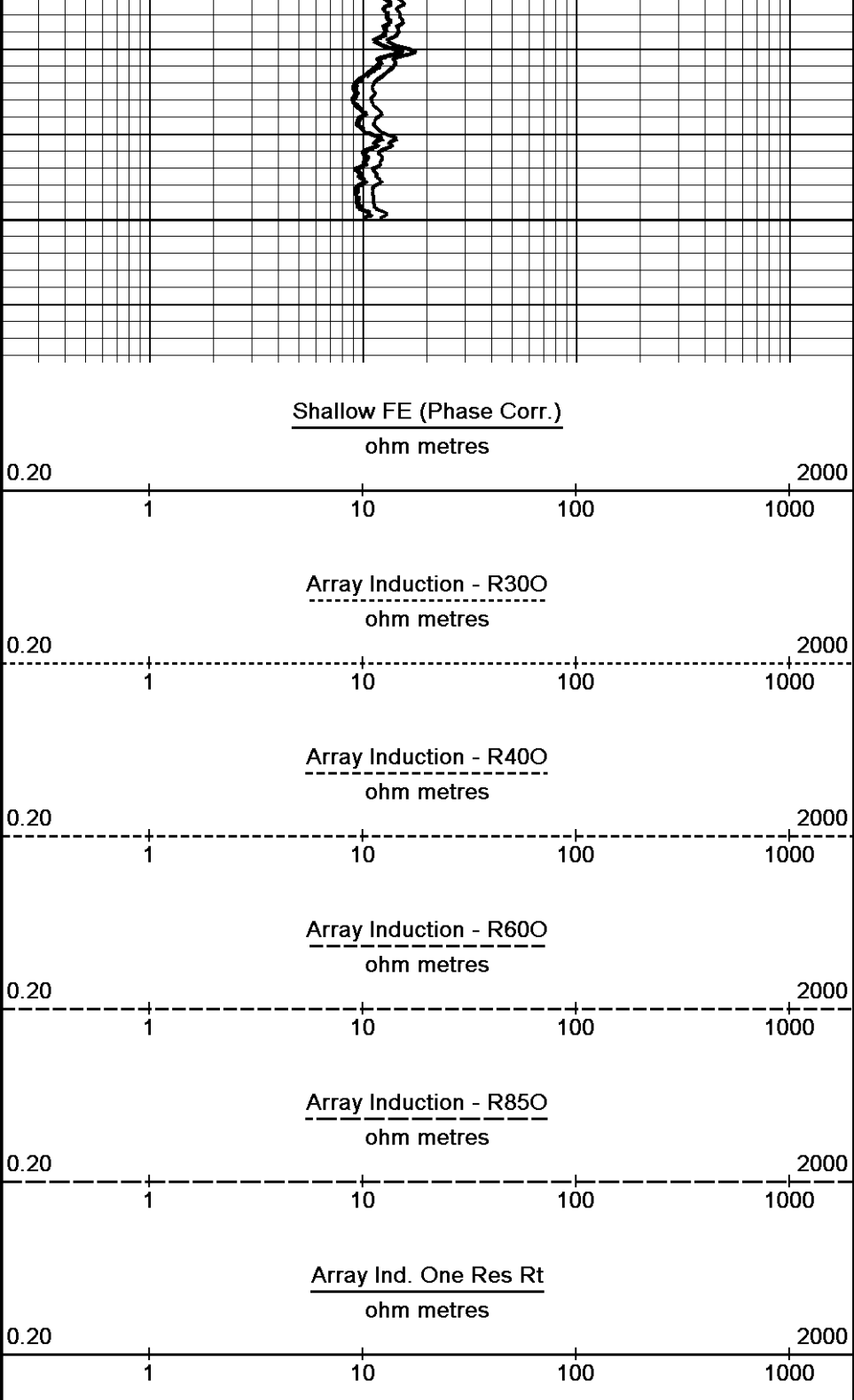
7400

7414

Depth in Feet

Borehole Temp in deg F

Replay Scale 1:240



Depth Based Data - Maximum Sampling Increment 10.0cm  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\RPT2.dta  
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198  
 Plotted on 23-FEB-2011 03:17  
 Recorded on 22-FEB-2011 23:21

↑ OVERLAY ↑

BEFORE SURVEY CALIBRATION  
 C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta

General Constants All 000 Last Edited on 22-FEB-2011,20:53

General Parameters		
Mud Resistivity	4.000	ohm-metres
Mud Resistivity Temperature	80.000	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

Field Calibration on 22-FEB-2011 21:40

Reading No	Measured	Calibrated (lbs)
1	15753.48	0.00
2	16748.19	382.00

High Resolution Temperature Calibration MCG-C 192

Field Calibration on 18-FEB-2011,09:26

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MCG-C 192

Last Edited on 13-DEC-2010,09:50

Pre-filter Length 11

SP Calibration MCG-C 192

Field Calibration on 22-FEB-2011,20:05

	Measured	Calibrated (mV)
Reference 1	100.9	100.0
Reference 2	-100.2	-100.0

Gamma Calibration MCG-C 192

Field Calibration on 22-FEB-2011 20:05

	Measured	Calibrated (API)
Background	97	71
Calibrator (Gross)	1341	983
Calibrator (Net)	1244	912

Gamma Constants MCG-C 192

Last Edited on 12-FEB-2011,12:54

Gamma Calibrator Number	912	
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 on 22-FEB-2011,05:29  
 Field Check on 22-FEB-2011 20:11

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3208	98	3714	110
	32.812		33.764	

Field Calibrator at Base

	Calibrated (cps)	
Ratio	1323	1983
	0.667	

Field Check

	Calibrated (cps)	
Ratio	1278	1966
	0.650	

Neutron Constants MDN-A.B 160

Last Edited on 23-FEB-2011,02:58

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 22-FEB-2011 20:26

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 23-FEB-2011,02:17

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
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**Induction Calibration MAI-B.A 213**

Base Calibration on 22-FEB-2011,05:28  
Field Check on 22-FEB-2011 20:34

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	12.1	3932.4	12.1	3931.9	
2	29.6	3538.5	29.6	3538.8	
3	28.5	3113.0	28.5	3113.5	
4	18.9	2095.5	18.9	2095.9	
Deep	17.1	2076.8	17.1	2077.3	
Medium	42.3	4087.5	42.3	4088.2	
Shallow	44.6	5158.2	44.5	5158.4	
Array Temperature		42.3	41.7	Deg F	

**Induction Constants MAI-B.A 213**

Last Edited on 23-FEB-2011,02:15

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 22-FEB-2011,20:21

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 22-FEB-2011 20:20

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		
Field Check				
	1171.4	1737.9		

PE Calibration				
Base Calibration				
	WS	WH	Ratio	Calibrated 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  
215.4 1051.2

Density Constants MPD-B 167

Last Edited on 22-FEB-2011,20:53

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 1.20 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	0.00

AFTER SURVEY CALIBRATION

C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta

Gamma Check MCG-C 192

Field Calibration on 22-FEB-2011 20:05  
 After Survey Check on 23-FEB-2011 02:57

	Before (API)	After (API)
Background	71	79
Calibrator (Gross)	983	991
Calibrator (Net)	912	912

Neutron Check MDN-A.B 160

Before Survey Check on 22-FEB-2011 20:11  
 After Survey Check on 23-FEB-2011 03:05

Near (cps)		Far (cps)		Ratio
Before	After	Before	After	
1278	1295	1966	1951	
	Before	After		
	0.650	0.664		

FE Check MFE-A.A 85

Before Survey Check 22-FEB-2011 20:26  
 After Survey Check on 23-FEB-2011 02:18

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

Induction Check MAI-B.A 213

Before Survey Check on 22-FEB-2011 20:34  
 After Survey Check on 23-FEB-2011 02:17

Channel	Before Survey (mmho/m)		After Survey (mmho/m)		
	Low	High	Low	High	
1	12.1	3931.9	14.7	3937.6	
2	29.6	3538.8	30.4	3540.2	
3	28.5	3113.5	29.0	3113.9	
4	18.9	2095.9	19.1	2096.6	
Deep	17.1	2077.3	17.5	2078.0	
Medium	42.3	4088.2	42.6	4087.6	
Shallow	44.5	5158.4	45.7	5160.1	
Array Temperature		41.7		79.0	Deg F

Density Check

	Near		Far	
	Before	After	Before	After
	1171.4	1173.5	1737.9	1746.3

PE Check

	Before	After
WS	215.4	213.6
WH	1051.2	1046.6

DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.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

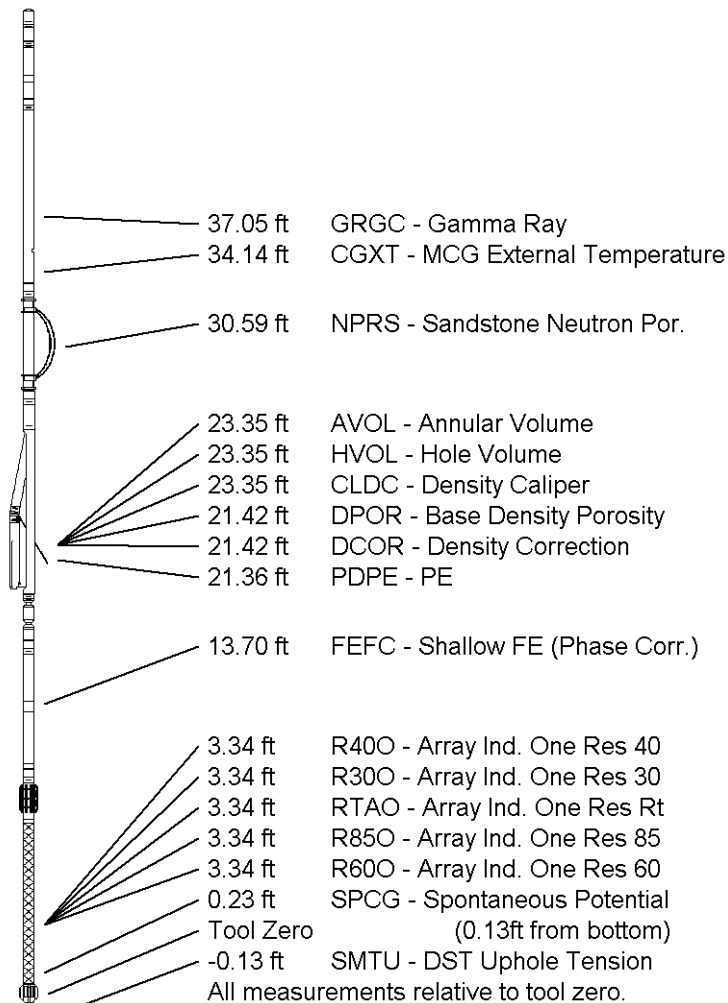
Compact Density/Caliper  
 MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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

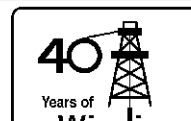


COMPANY	BILL BARRETT CORPORATION
WELL	GGU SWANSON 32D-29-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	6127.00	feet	First Reading	7453.00	
Elevation Drill Floor	6126.00	feet	Depth Driller	7467.00	feet
Elevation Ground Level	6104.00	feet	Depth Logger	7456.00	feet



ARRAY INDUCTION - RTAP  
 SHALLOW FOCUSED

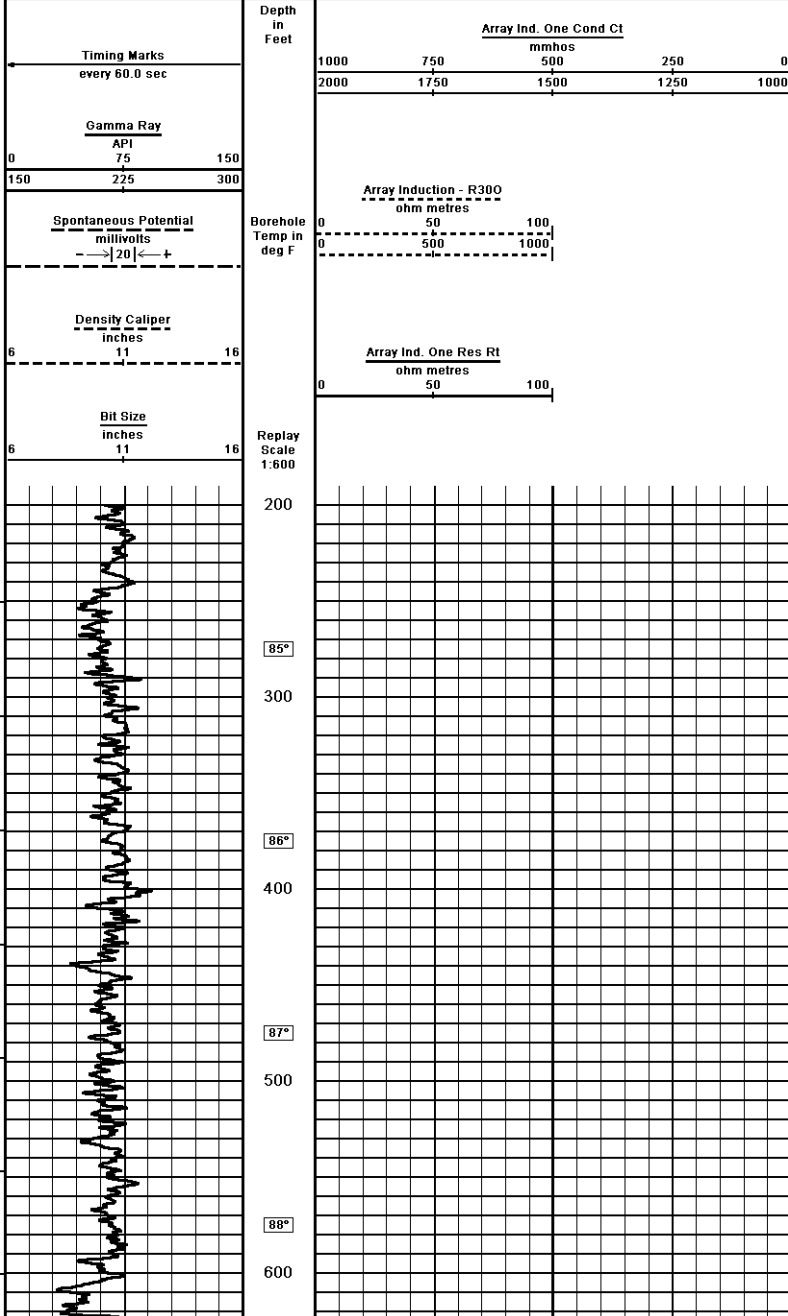


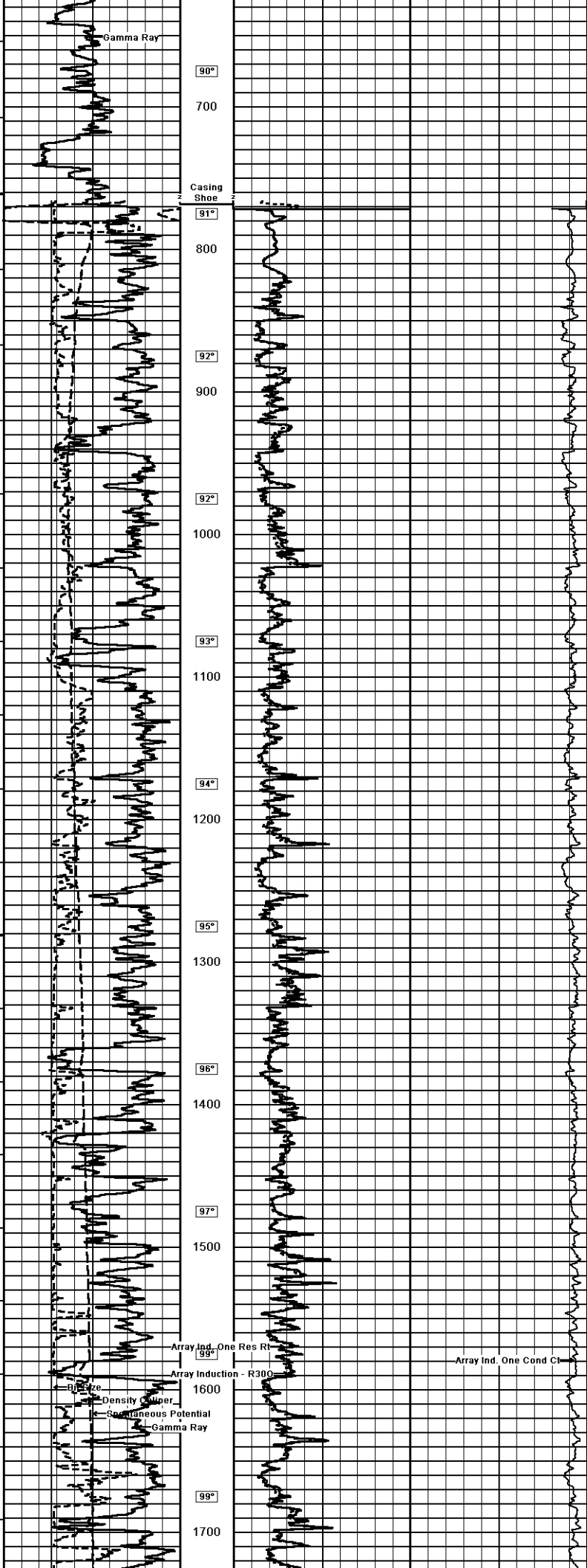
<b>Weatherford</b>		<b>ARRAY INDUCTION - RTAP SHALLOW FOCUSED ELECTRIC LOG</b>	
COMPANY	BILL BARRETT CORPORATION	Well	GGU SWANSON 32D-29-691
FIELD	GIBSON GULCH	PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO	LOCATION	SHL: 1221' FNL & 1342' FEL BHL: 1473' FNL & 1990' FEL
LOG NUMBER	06245-1891	Other Services	IMPEMION
Serial Number		Log Measured From	KB @ 23 ft above Permanent Datum
Drilling Measured From	KB	Drilling Measured From	KB
Date	22-FEB-2011	Iterations	6127.00 6128.00 6104.00
Run Number	ONE	Depth Driller	7467.00 feet
Depth Driller	7467.00	Depth Logger	7453.00 feet
First Reading	7453.00	Last Reading	200.00
Casing Driller	766.00	Casing Logger	766.00 feet
Bit Size	7.880	Bit Size	7.880 inches
Fluid Type	LSND	Fluid Viscosity	10.80 mPaS
PH / Fluid Loss	9.60	Flow Line	5.20 ml/30min
Sample Source	FLOW LINE	Temp @ Measured Temp	4.0 @ 80.0 mm-m
Temp @ Measured Temp	3.20 @ 80.0	Temp @ Measured Temp	4.80 @ 80.0
Source Rmt / Rmc	CALC	Source Rmt / Rmc	CALC
Rm @ BHT	1.85 @ 176.0	Rm @ BHT	1.85 @ 176.0
Time since Circulation	6 HOURS	Max Recorded Temp	176.00 deg F
Equipment Name	COMPACT	Equipment Base	13173
Recorded By	J.GARCIA	Checked By	C.CROW

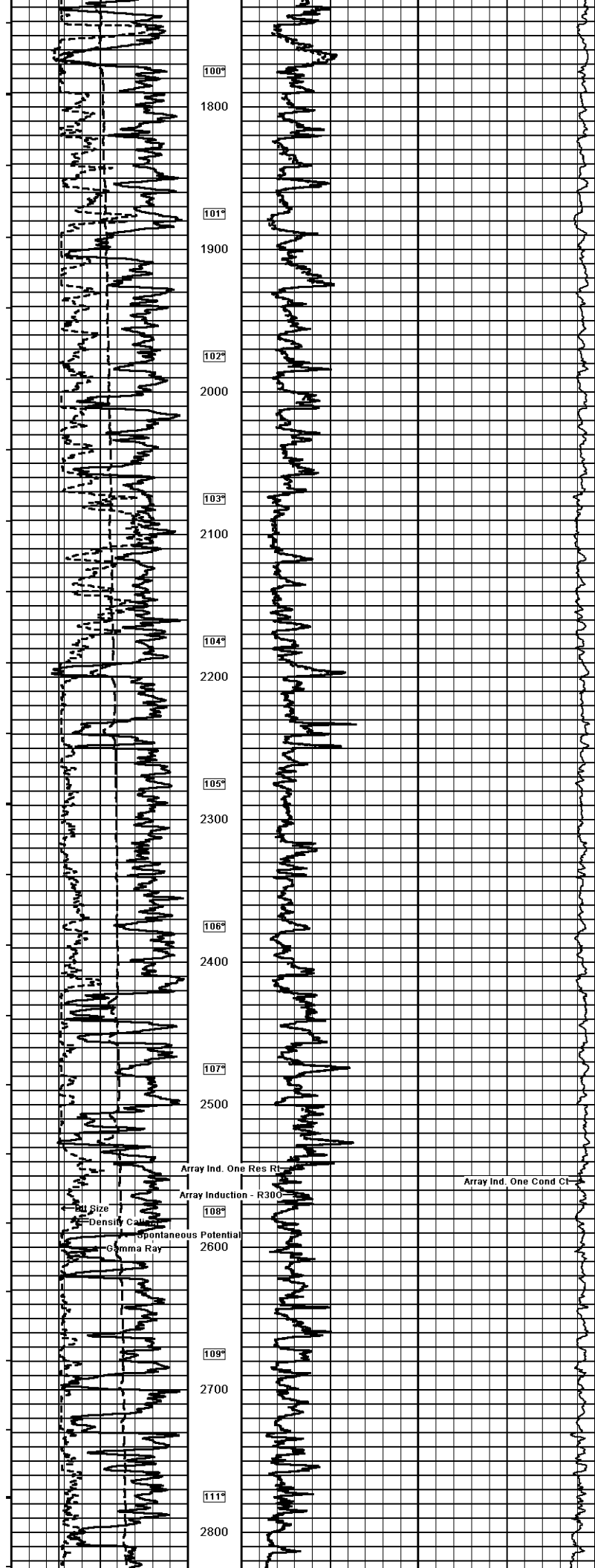
**1 INCH MAIN LOG**

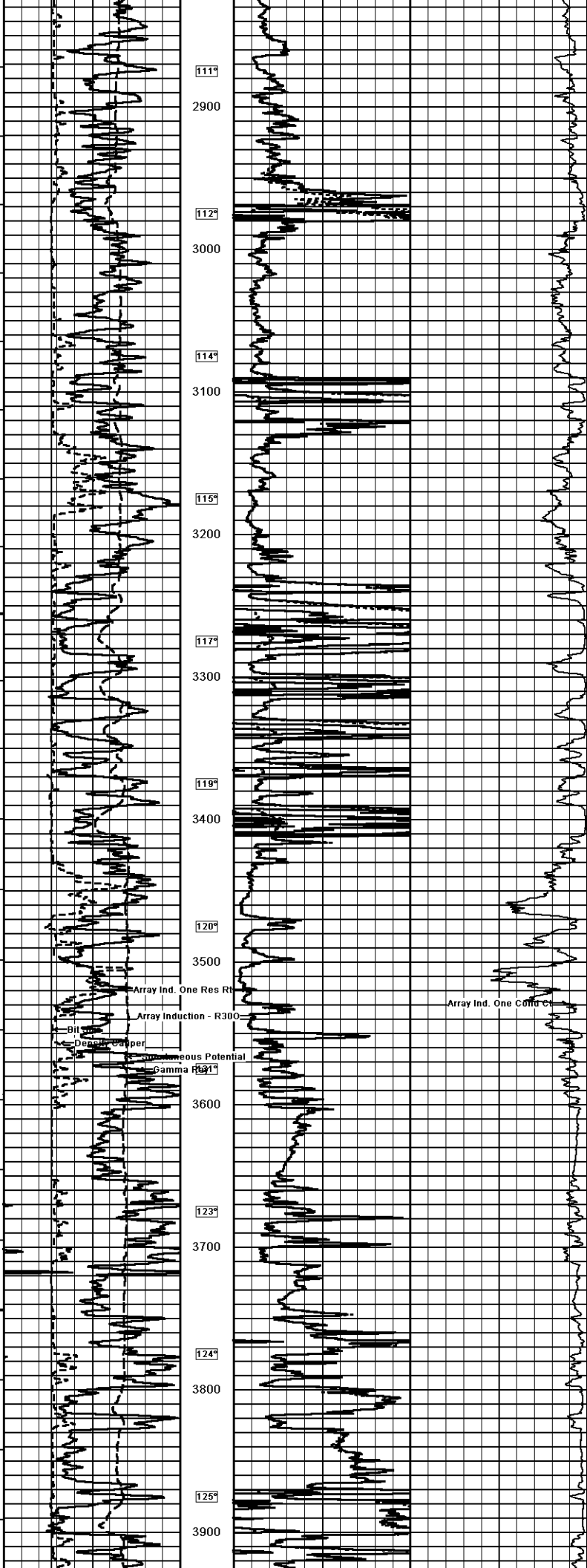
Depth Based Data - Maximum Sampling Increment: 10.0cm  
 Filename: C:\Minimus\Logs\Bill Barrett\GGU Swanson 32D-29-691\MAIN-2.dta  
 System Versions: Logged with 11.01.2198 Plotted with 11.01.2198

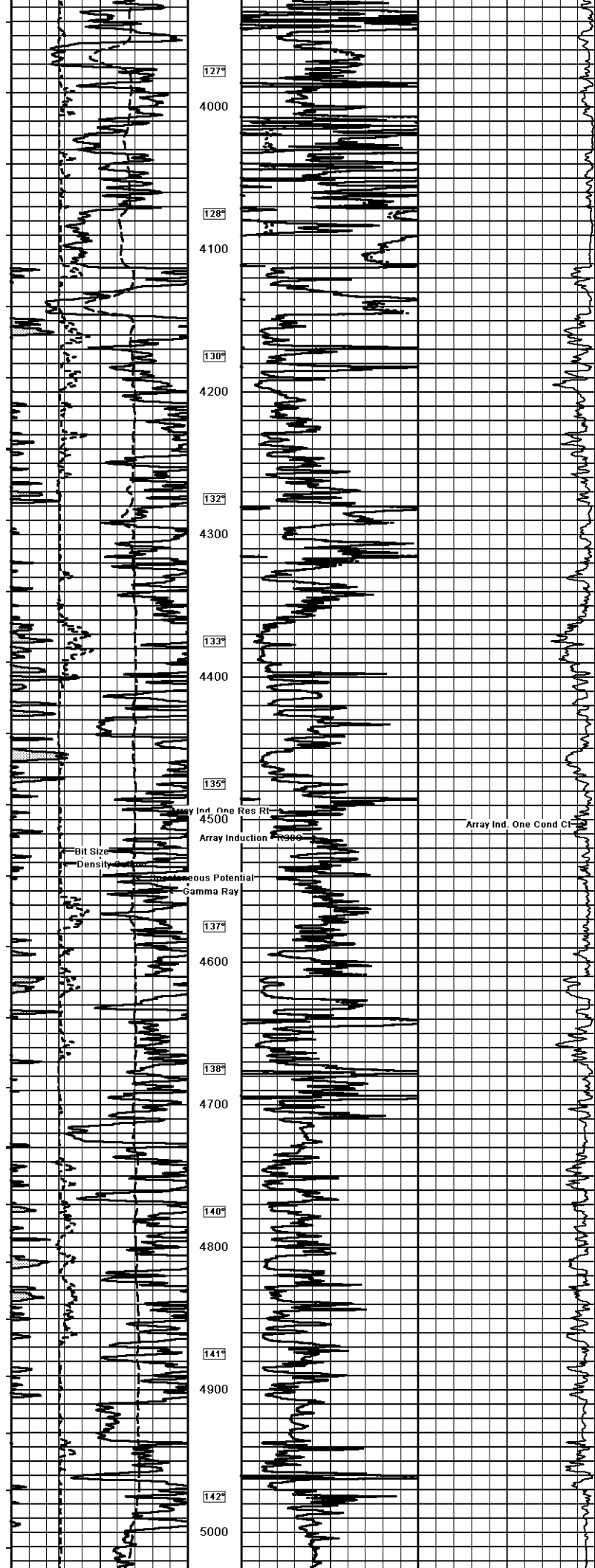
Plotted on 23-FEB-2011 03:17  
 Recorded on 22-FEB-2011 23:21

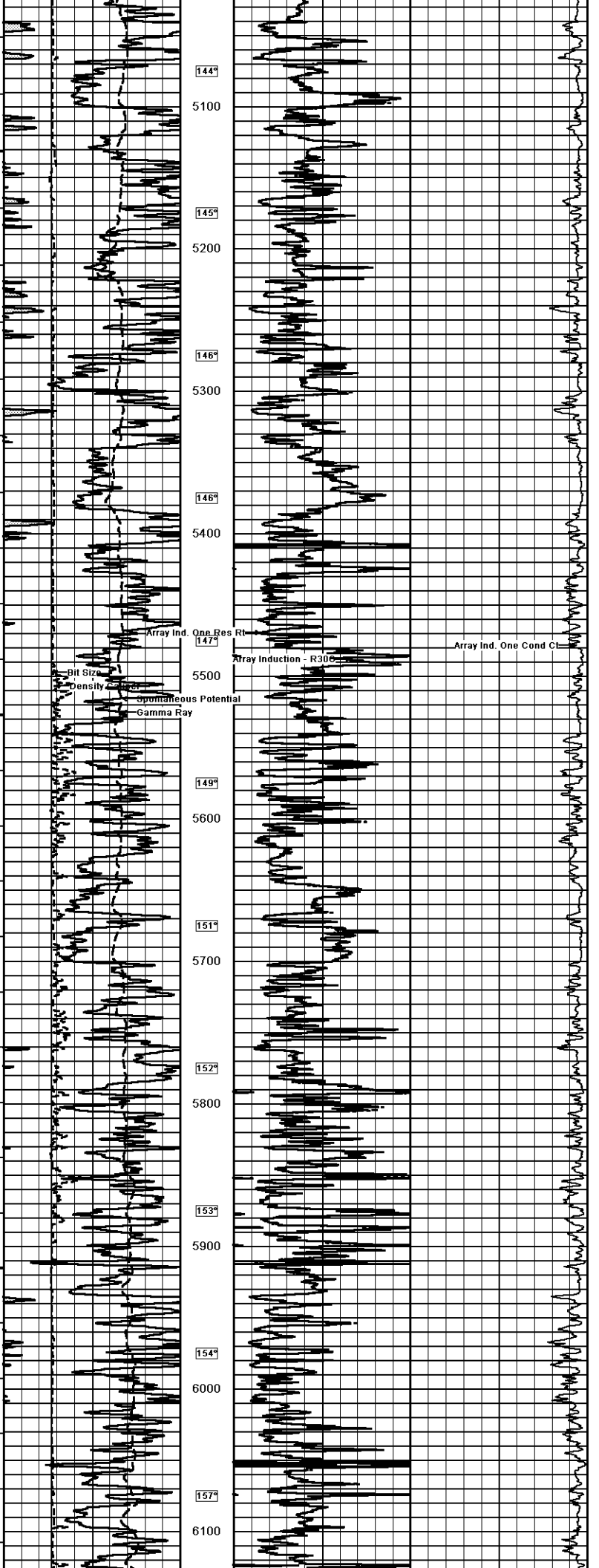


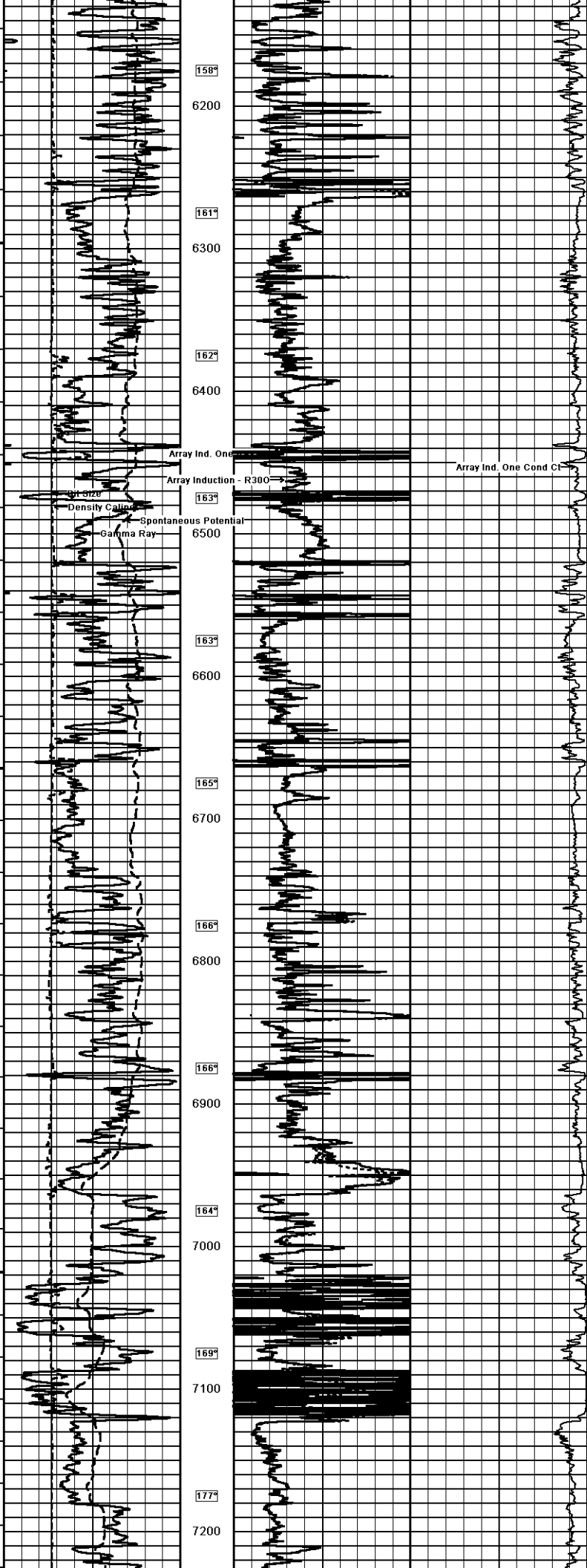


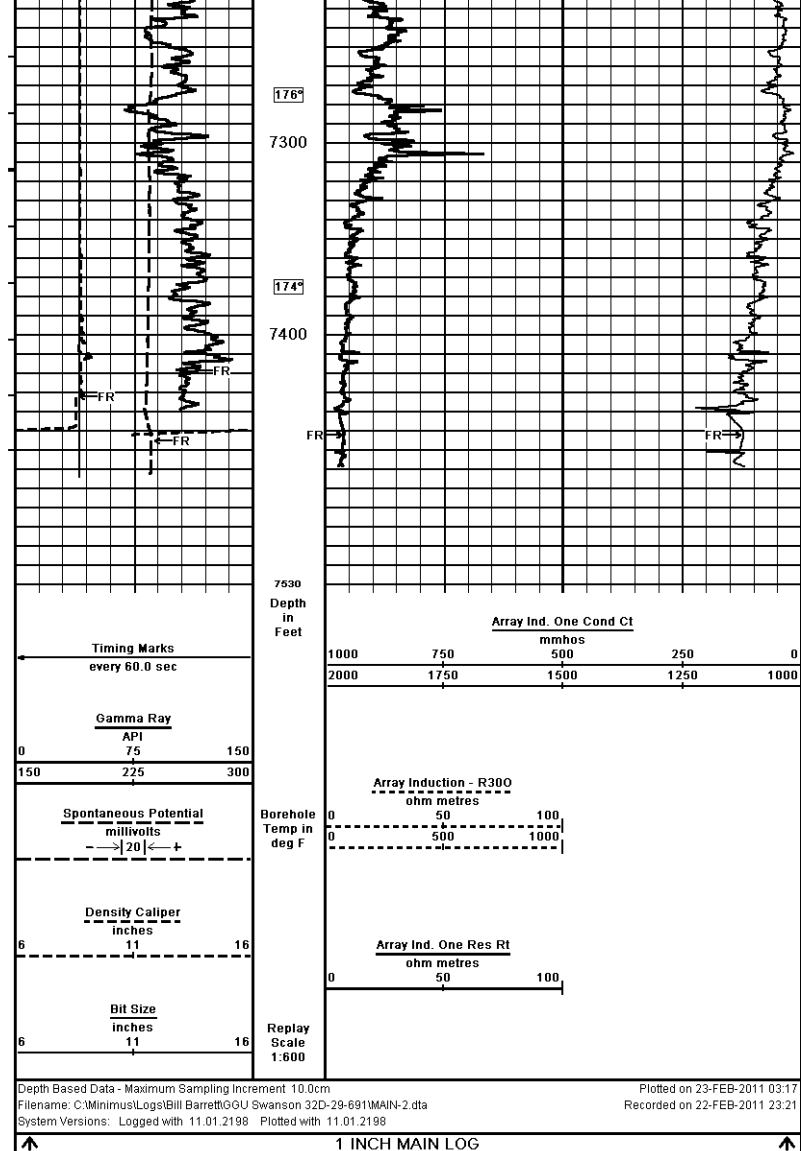












COMPANY	BILL BARRETT CORPORATION			
WELL	GGU SWANSON 32D-29-691			
FIELD	GIBSON GULCH			
PROVINCE/COUNTY	GARFIELD			
COUNTRY/STATE	U.S.A. / COLORADO			
Elevation Kelly Bushing	6127.00	feet	First Reading	7453.00
Elevation Drill Floor	6126.00	feet	Depth Driller	7467.00 feet
Elevation Ground Level	6104.00	feet	Depth Logger	7456.00 feet

**Weatherford** ARRAY INDUCTION - RTAP  
SHALLOW FOCUSED  
ELECTRIC LOG

40  
Wireline