Weatherford®

ARRAY INDUCTION LOGS

COMPANY	WEXPRO COMPANY
WELL	MUSSER 31
FIELD	POWDER WASH
PROVINCE/COUNTY	MOFFAT
COUNTRY/STATE	USA/COLORADO
LOCATION	SHL: 348' FNL & 607' FEL

SEC	TWP	RGE
4	11N	97W

Other Services
MPD
MDN

API Number 0508107468
Permit Number

Permanent Datum G.L., Elevation 6601 feet
Log Measured From KB
Drilling Measured From KB

Elevations:	feet
KB	6630.00
DF	6630.00
GL	6601.00

Date	07-DEC-2011			
Run Number	1			
Depth Driller	9095.00	feet		
Depth Logger	6220.00	feet		
First Reading	6217.00	feet		
Last Reading	200.00	feet		
Casing Driller	1539.00	feet		
Casing Logger	1537.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	WBM			
Density / Viscosity	10.40 lb/USg	15.00 CP		
PH / Fluid Loss	9.00	8.00 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	4.26 @ 76.4	ohm-m		
Rmf @ Measured Temp	3.41 @ 76.4	ohm-m		
Rmc @ Measured Temp	5.11 @ 76.4	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	2.27 @146.0	ohm-m		
Time Since Circulation	4 HOURS			
Max Recorded Temp	146.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13144	RK SPR		
Recorded By	J.PAULSON		J.LIU	
Witnessed By	R.BUSH			

BOREHOLE RECORD

Last Edited: 07-DEC-2011 12:50

Bit Size inches	Depth From feet	Depth To feet
7.875	1539.00	9095.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	1537.00	36.00

REMARKS

SOFTWARE VERSION 12.02.4401

TOOLS RUN: SHA, MCG, MDN, MPD, MIS-D, SKJ, 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.

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.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING =1731 CUBIC FEET

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO SURFACE CASING = 1215 CUBIC FEET

ANNULAR VOLUME WITH 4.0 INCH PRODUCTION CASING FROM TD TO SURFACE CASING = 1210 CUBIC FEET

BRIDGED OFF AT 6220 AND LOGGED UP FROM THERE

SERVICE ORDER: #3526717
OPERATOR: D. SMITH
U. KIMBASSA

RIG: SST 88

2 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 09-DEC-2011 15:36
Filename: C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\DOWN_LOG3.dta
Recorded on 07-DEC-2011 09:07
System Versions: Logged with 12.02.4401 Processed with 12.02.4401 Plotted with 12.01.3513

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
– ⟶ | 10 | ⟵ +

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

DSC
in
Feet

Borehole
Temp in
deg F

Replay
Scale
1:600

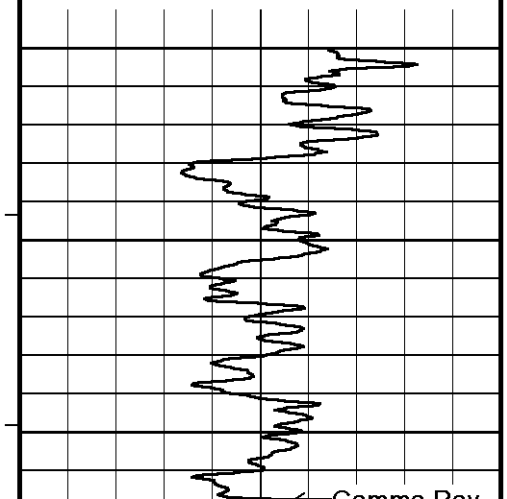
200

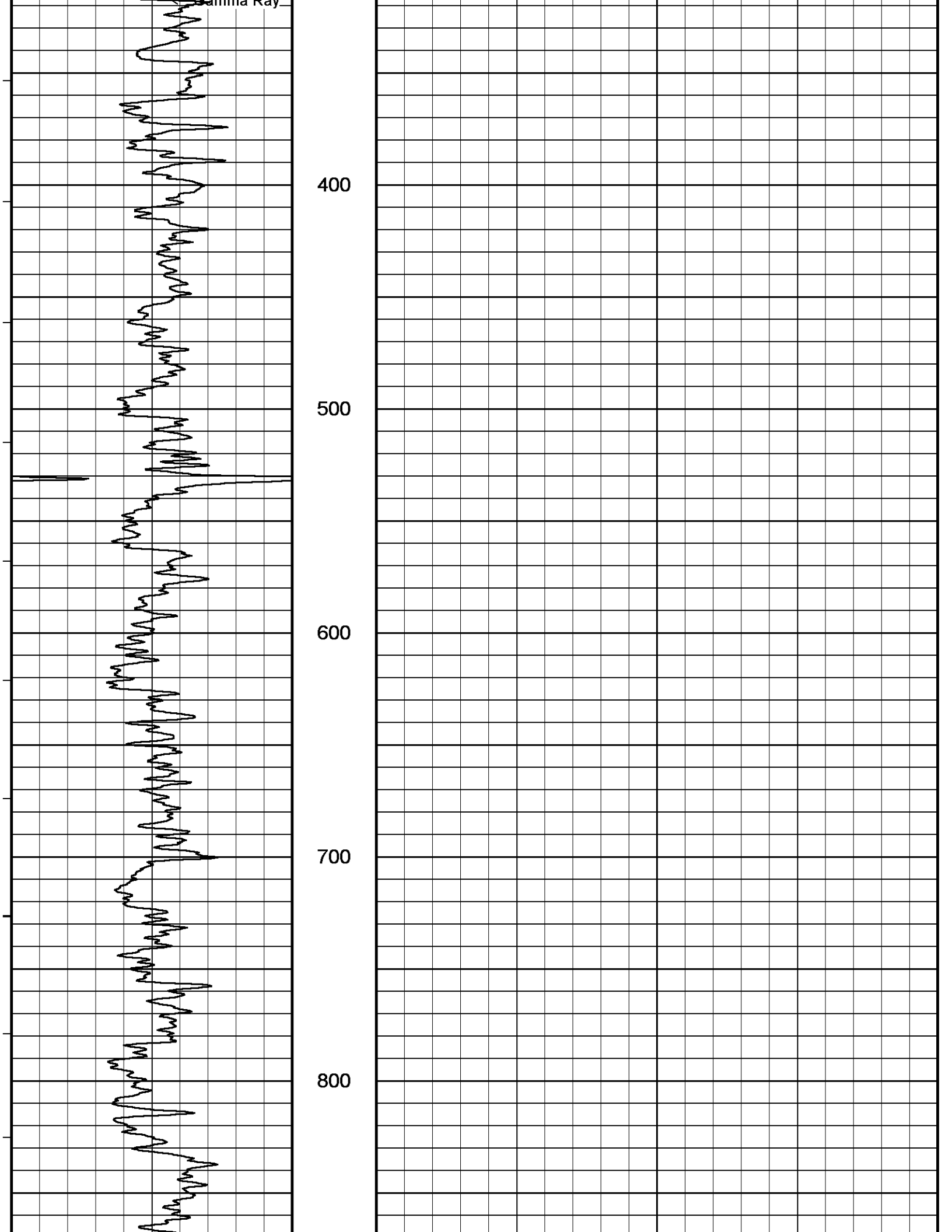
300

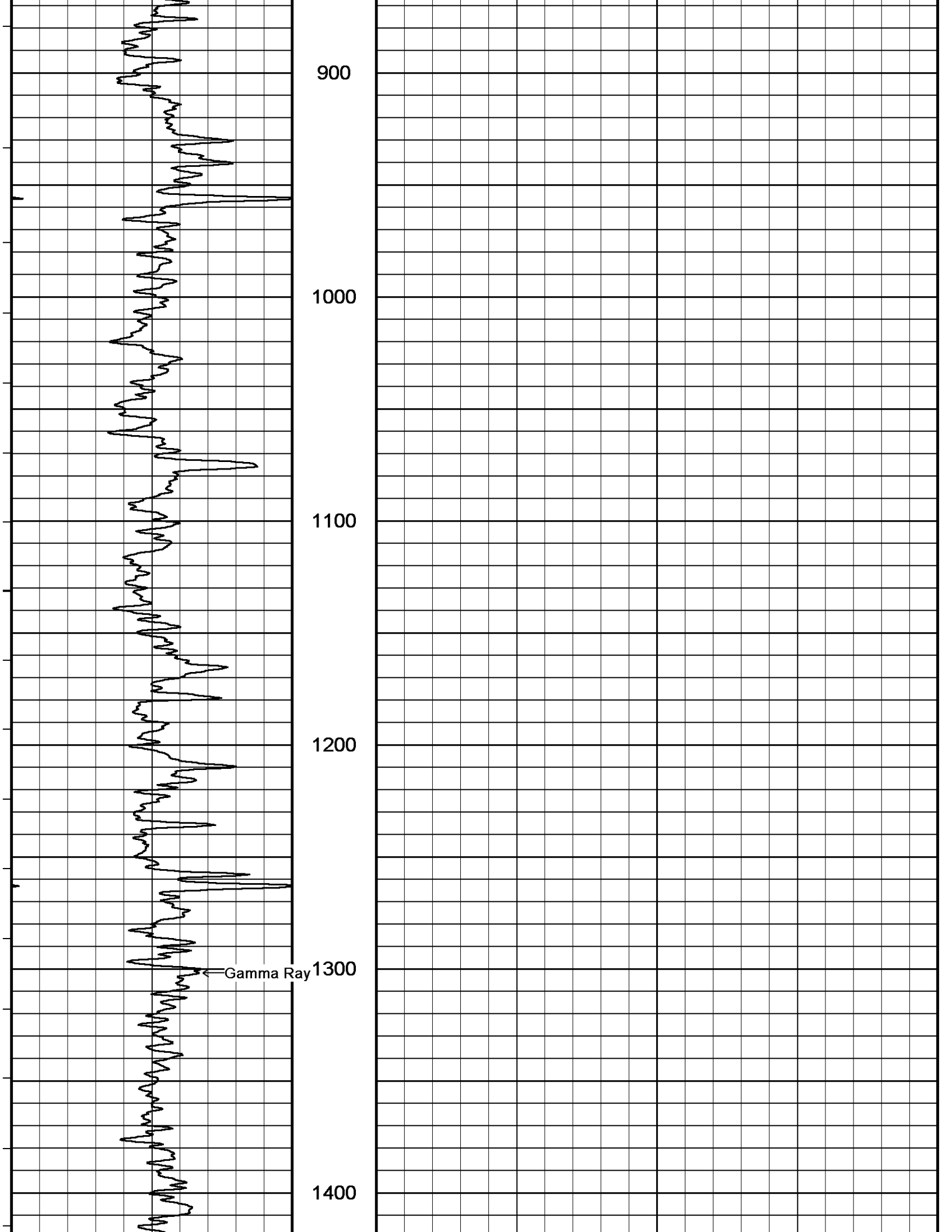
Array Ind. One Cond Ct
mmhos
1000 750 500 250 0

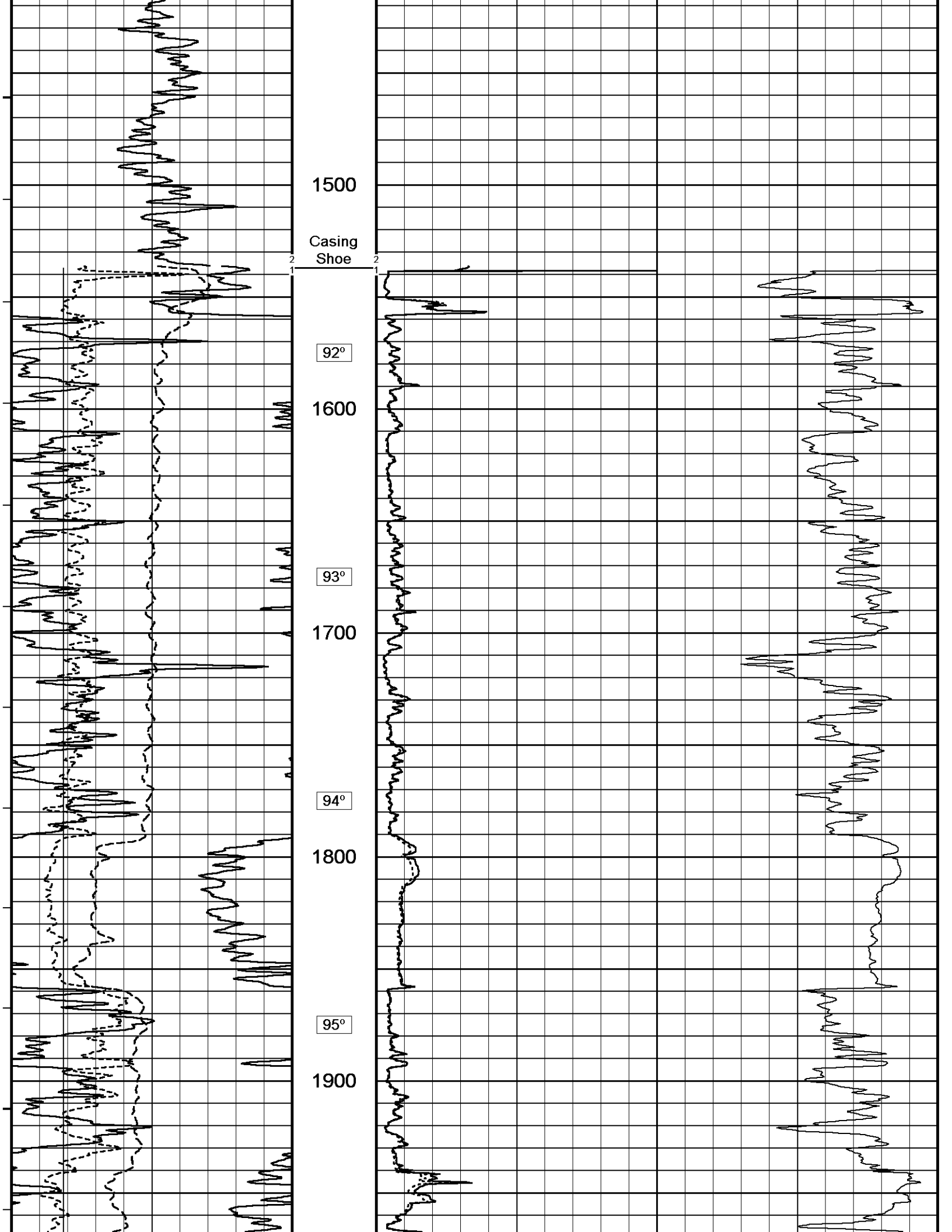
Array Ind. One Res 30
ohm metres
0 50 100
0 500 1000

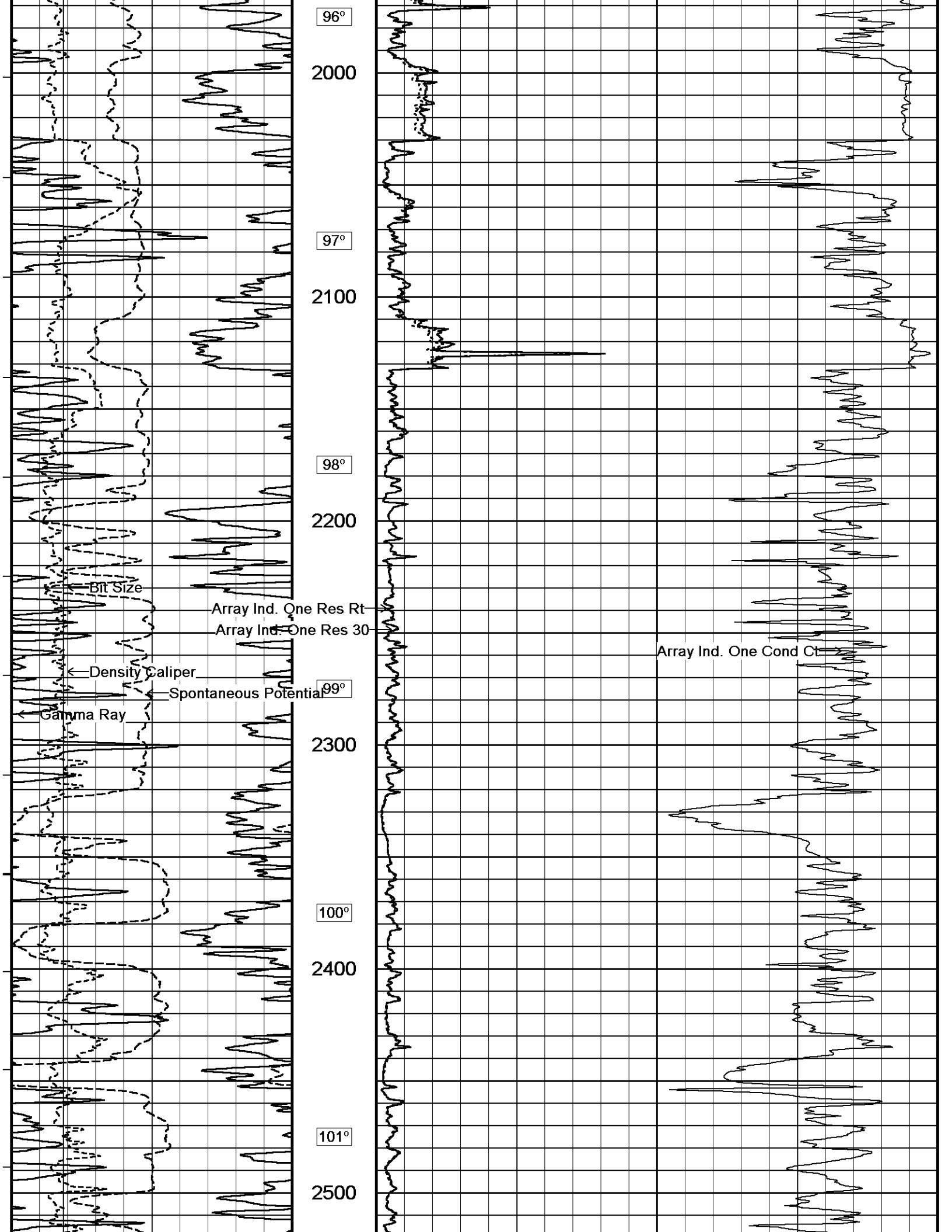
Array Ind. One Res Rt
ohm metres
0 50 100
0 500 1000

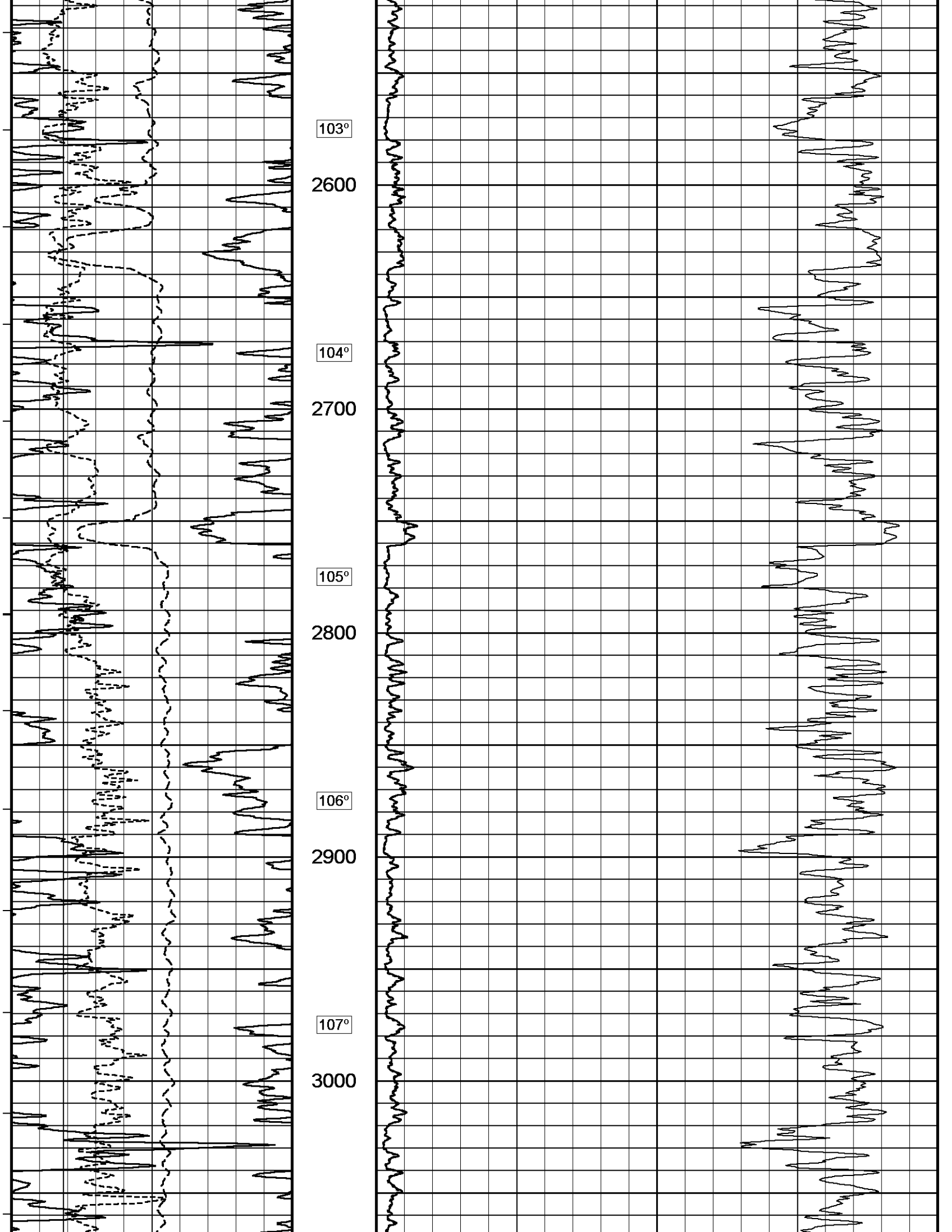



Gamma Ray
400
500
600
700
800


900
1000
1100
1200
Gamma Ray
1300
1400


1500
Casing
Shoe
92°
1600
93°
1700
94°
1800
95°
1900


96°
2000
97°
2100
98°
2200
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 30
Array Ind. One Cond Ct
Density Caliper
Spontaneous Potential
99°
Gamma Ray
2300
100°
2400
101°
2500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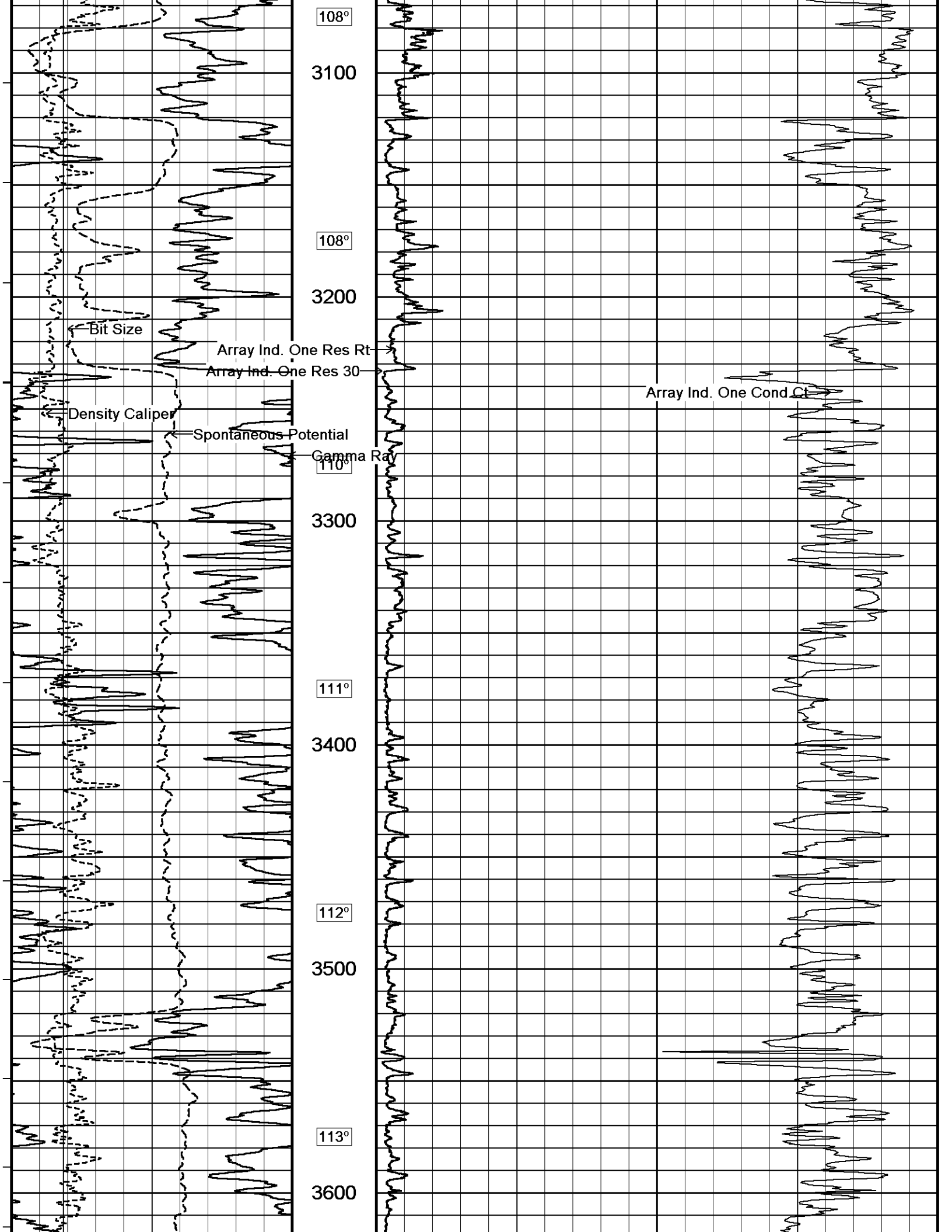
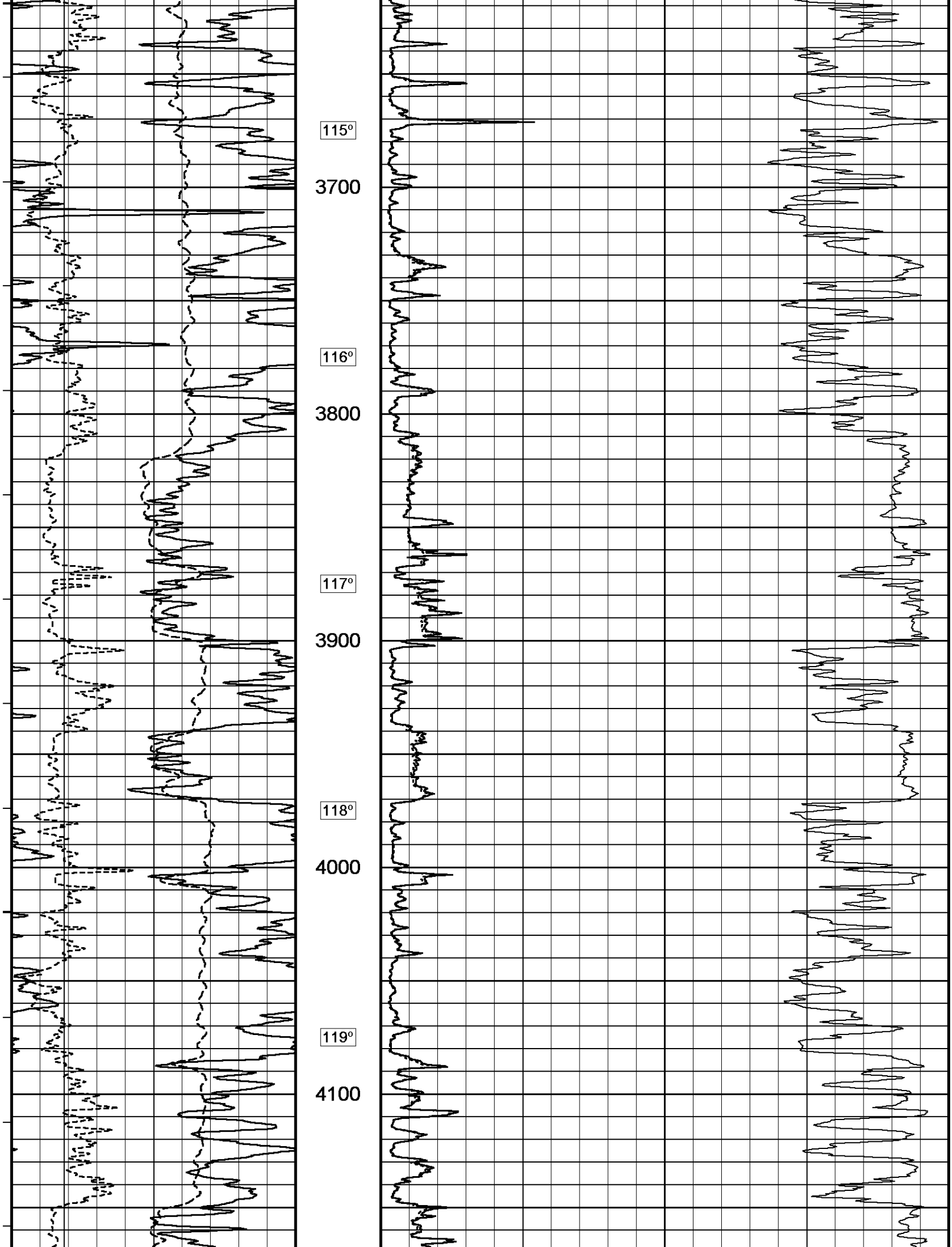
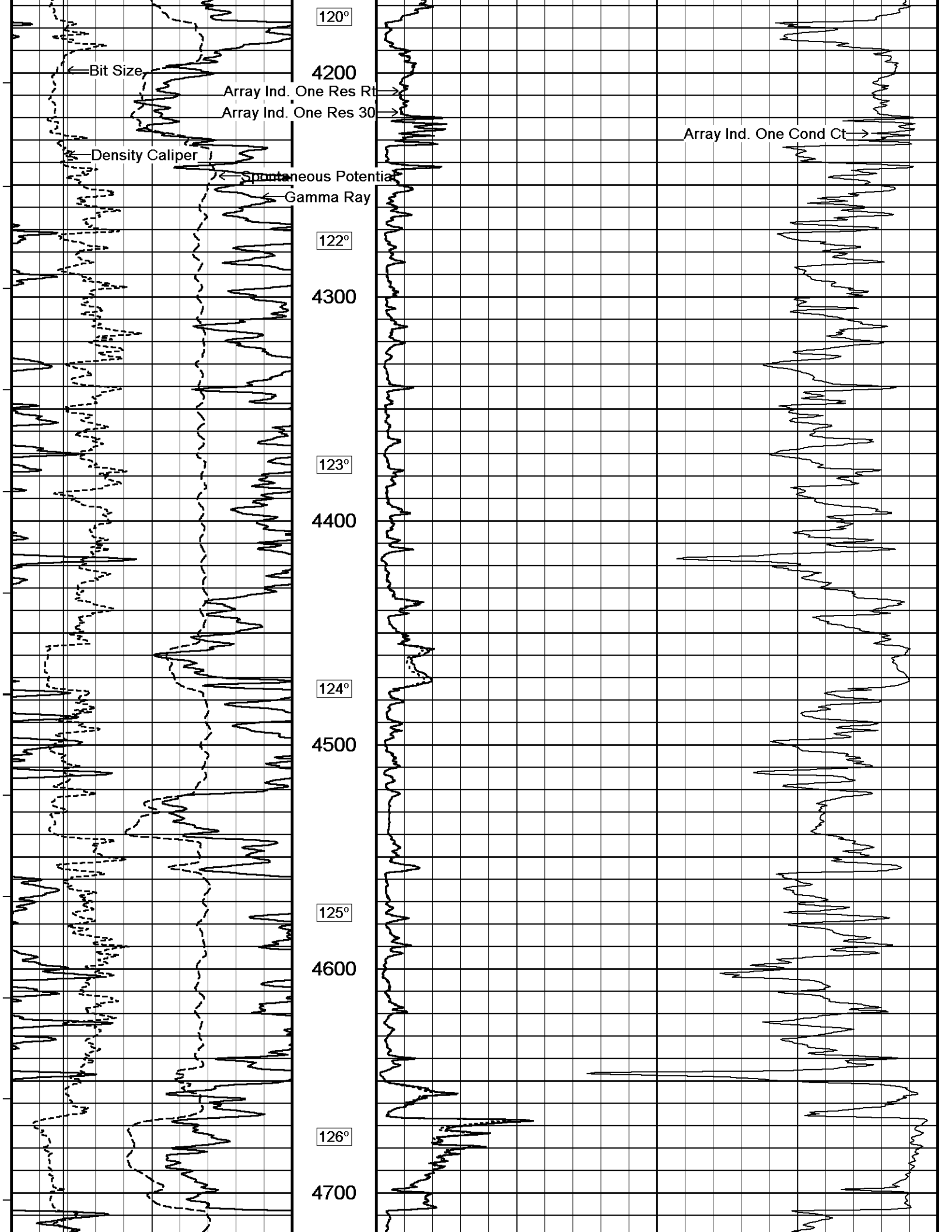
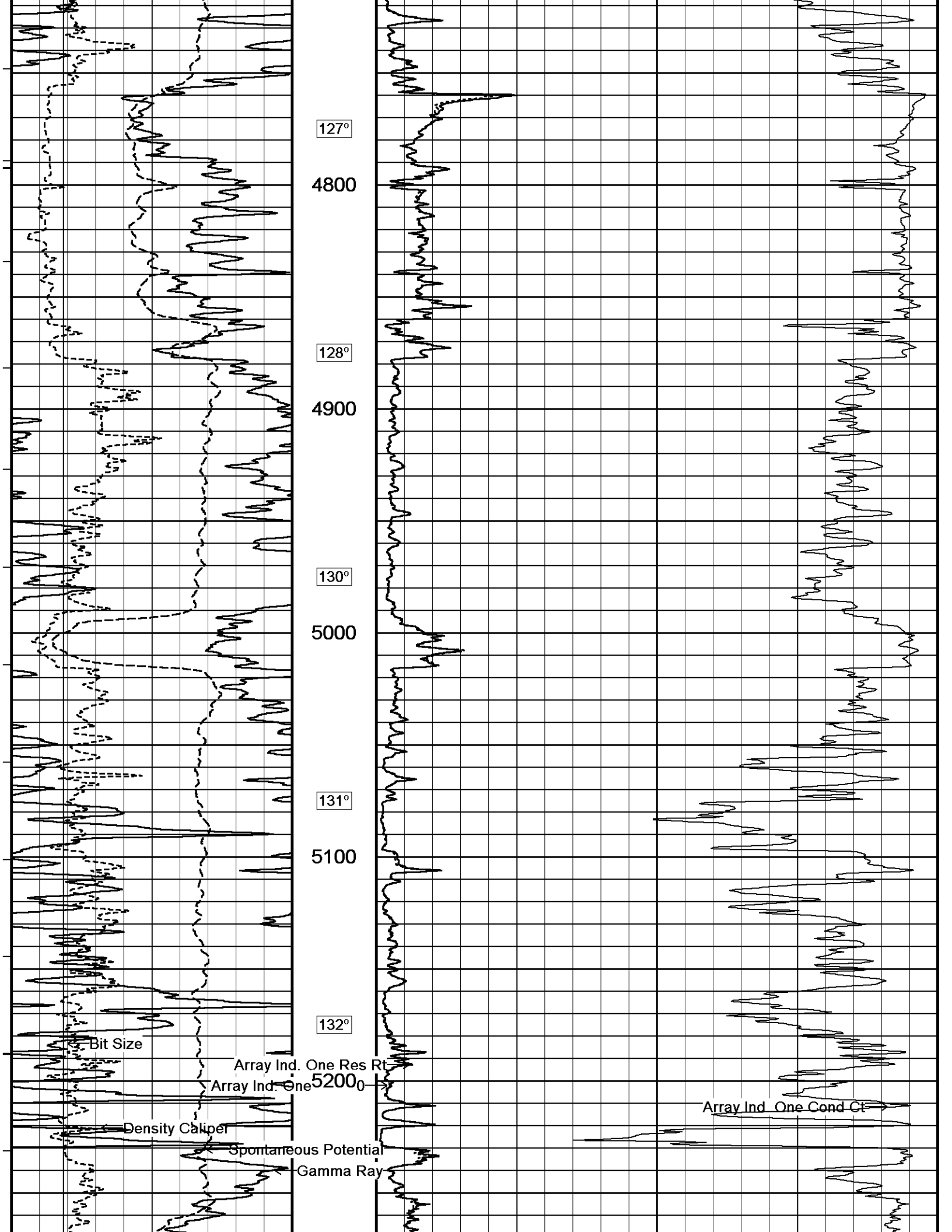
2600
104°
2700
105°
2800
106°
2900
107°
3000


108°
3100
108°
3200
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 30
Array Ind. One Cond Ct
Density Caliper
Spontaneous Potential
Gamma Ray
110°
3300
111°
3400
112°
3500
113°
3600


115°
3700
116°
3800
117°
3900
118°
4000
119°
4100


120°
Bit Size
4200
Array Ind. One Res Rt
Array Ind. One Res 30
Array Ind. One Cond Ct
Density Caliper
Spontaneous Potential
Gamma Ray
122°
4300
123°
4400
124°
4500
125°
4600
126°
4700


127°
4800
128°
4900
130°
5000
131°
5100
132°
Bit Size
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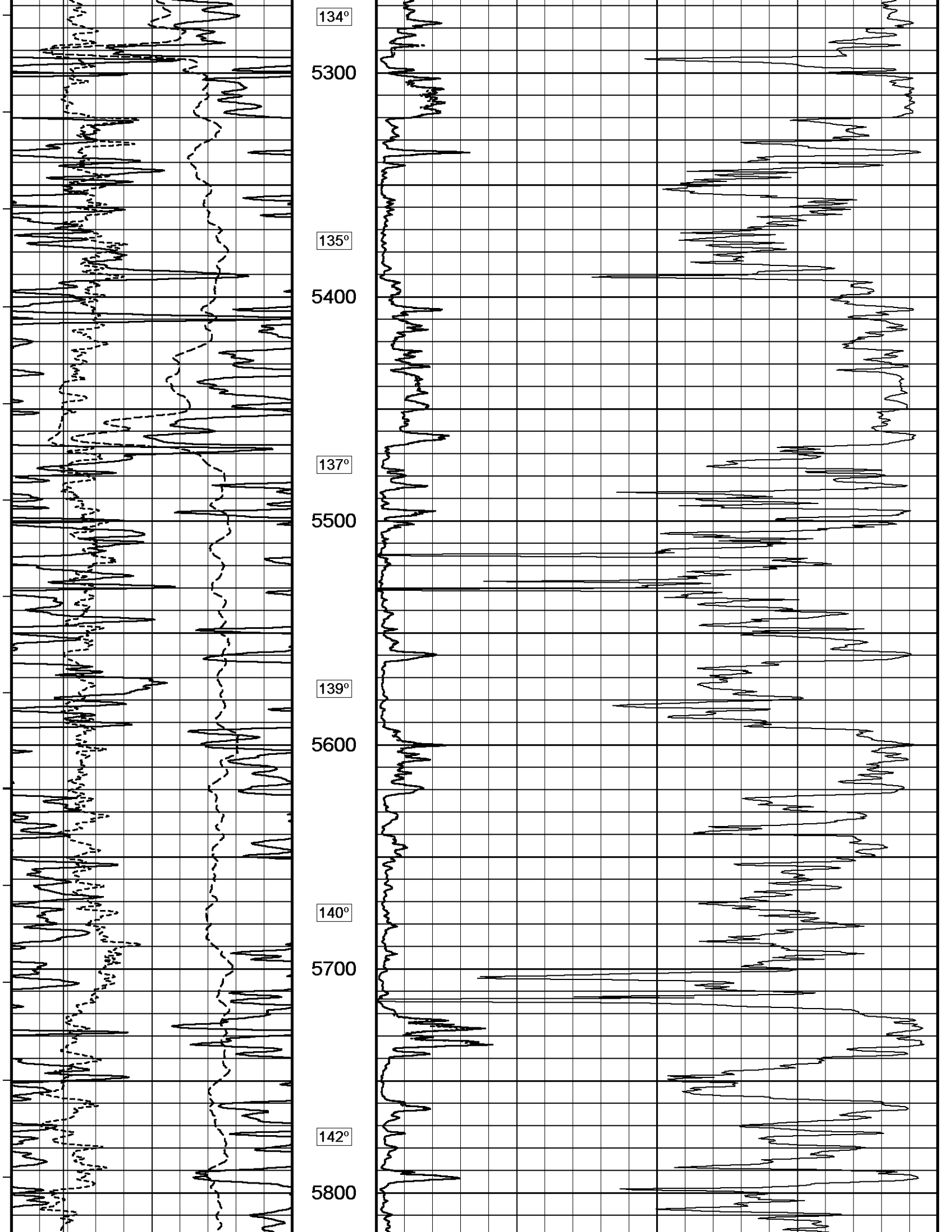
Array Ind. One
5200
0
Array Ind. One Cond Ct
Density Caliper
Spontaneous Potential
Gamma Ray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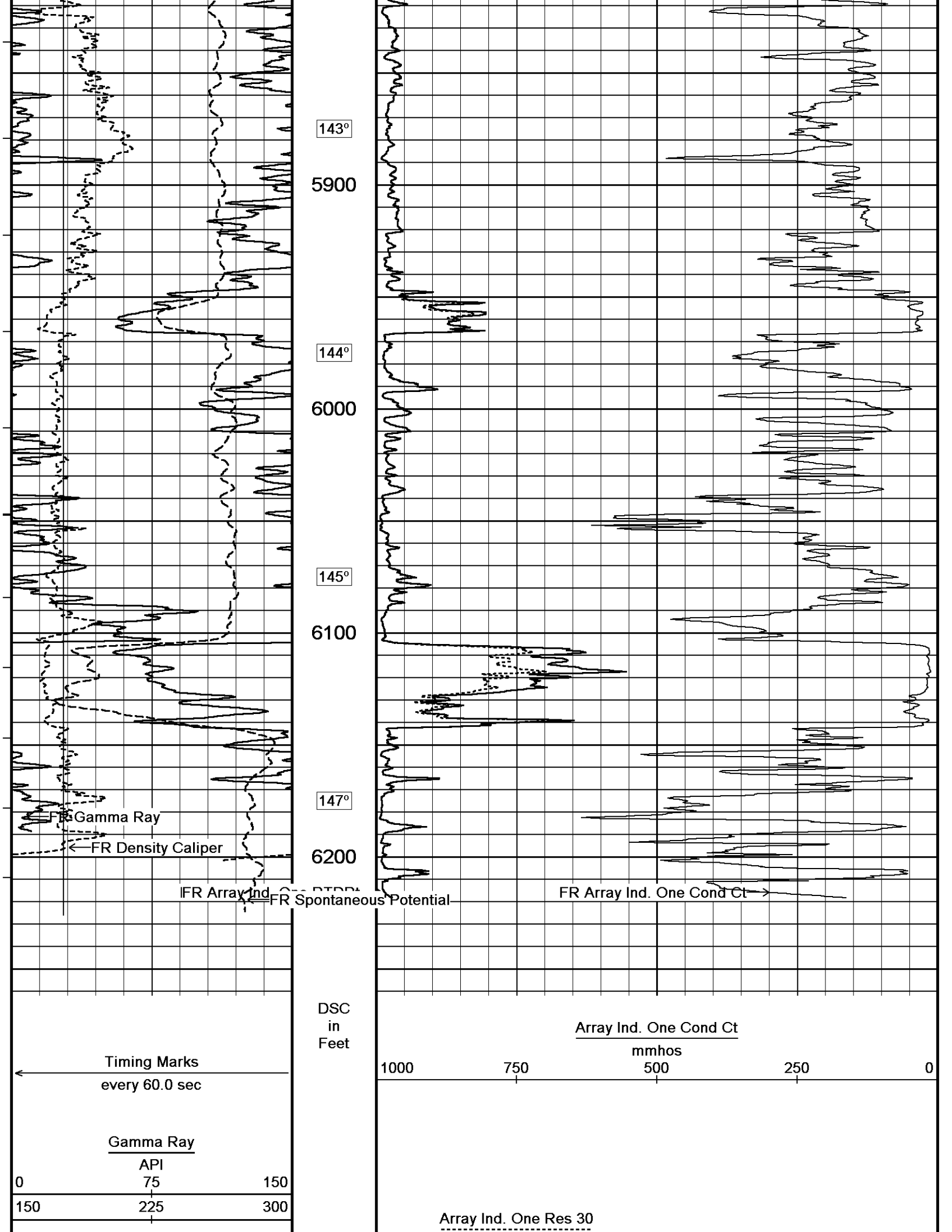
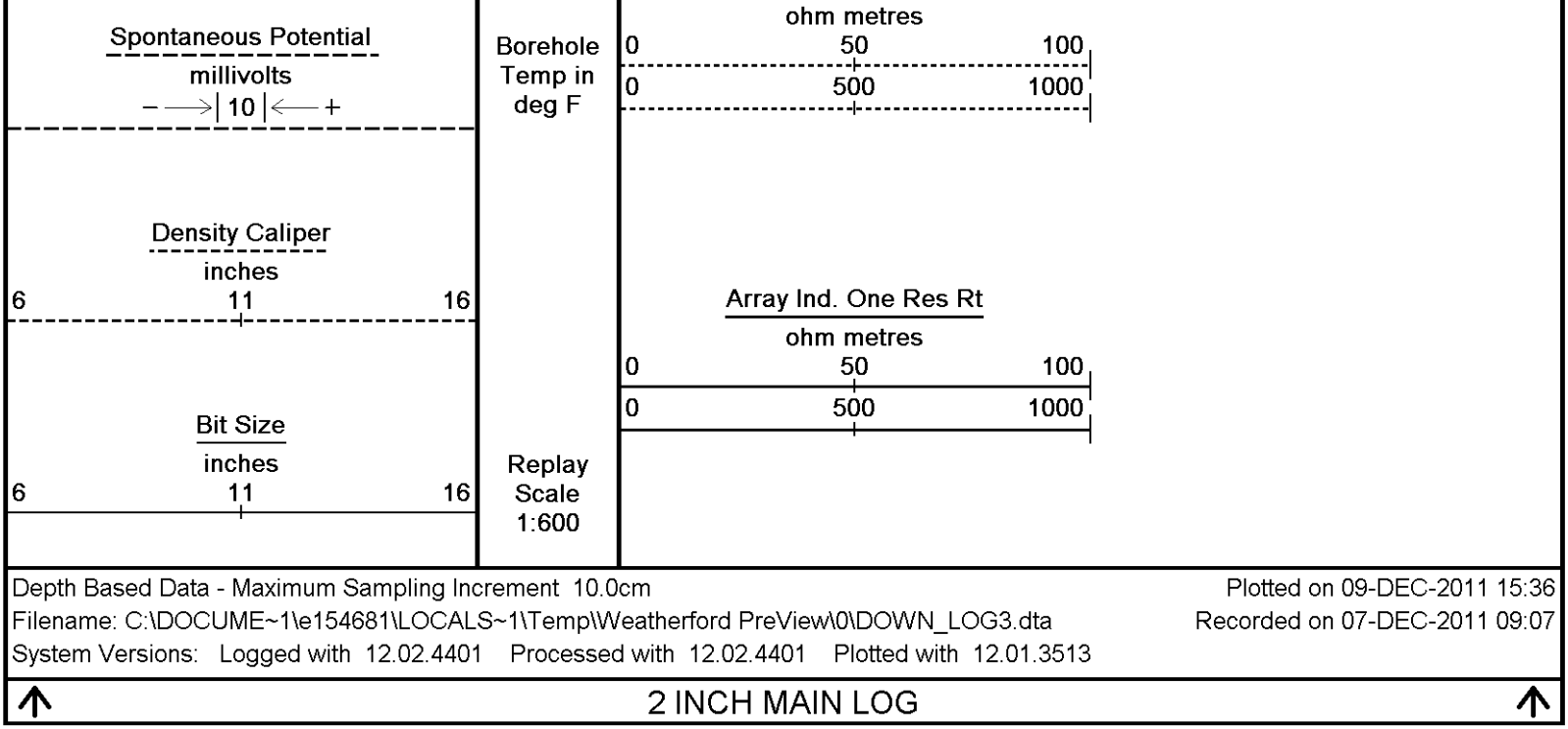
5300
135°
5400
137°
5500
139°
5600
140°
5700
142°
5800


143°
5900
144°
6000
145°
6100
147°
6200
FR Gamma Ray
FR Density Caliper
FR Spontaneous Potential
FR Array Ind. One Cond Ct
DSC
in
Feet
Timing Marks
every 60.0 sec
Gamma Ray
API
0
75
150
150
225
300
Array Ind. One Cond Ct
mmhos
1000
750
500
250
0
Array Ind. One Res 30



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 09-DEC-2011 15:36
Filename: C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\DOWN_LOG3.dta — Recorded on 07-DEC-2011 09:07
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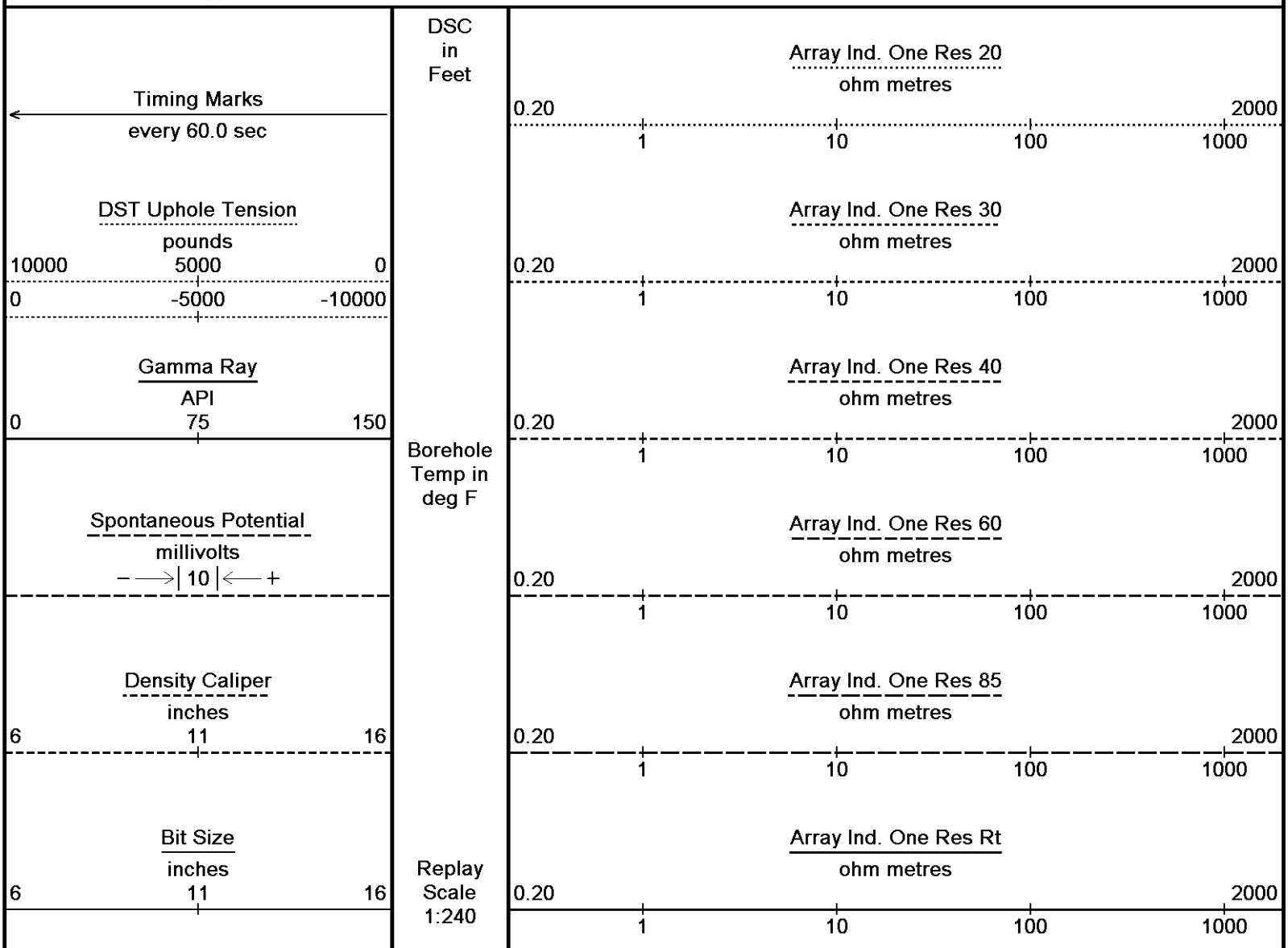
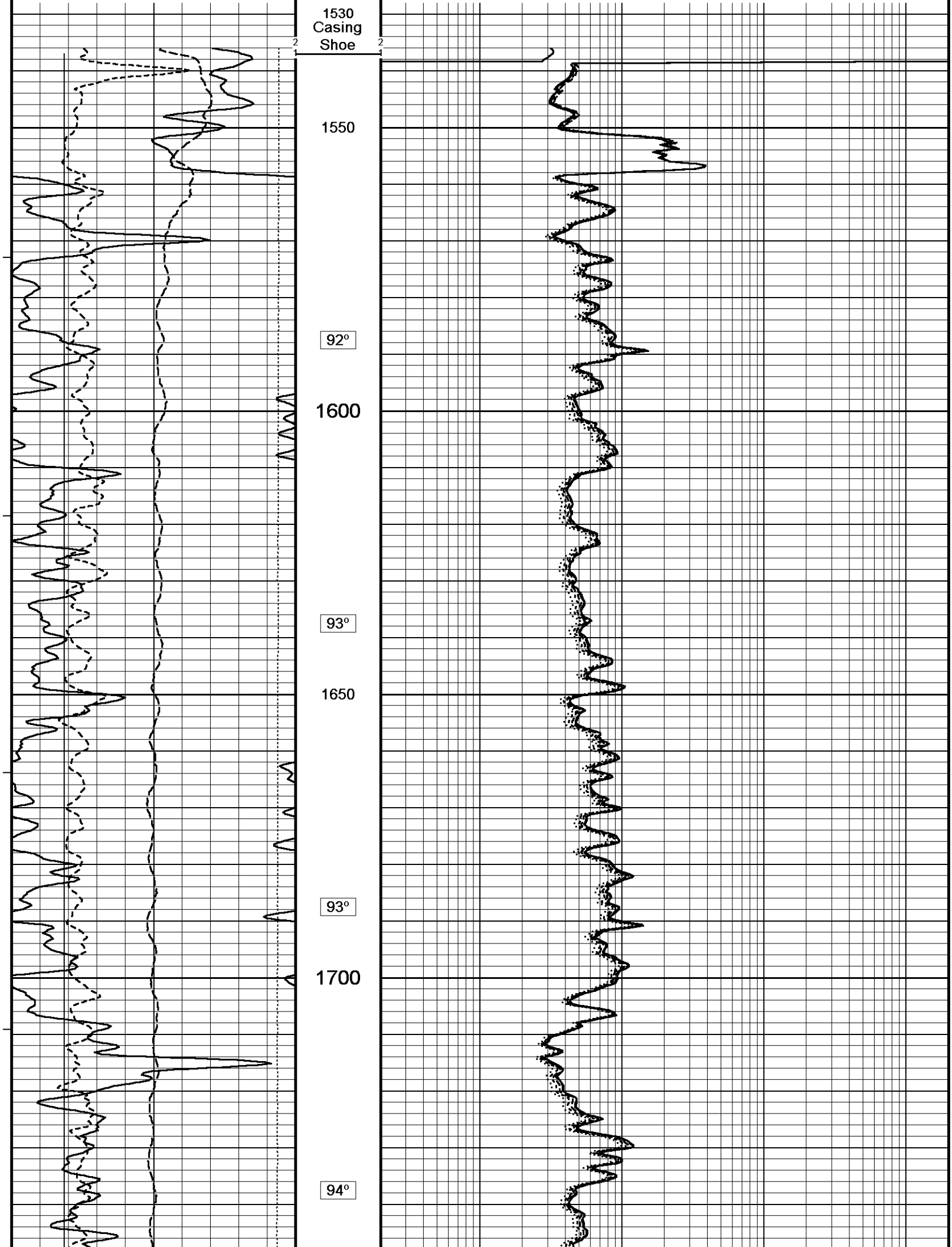
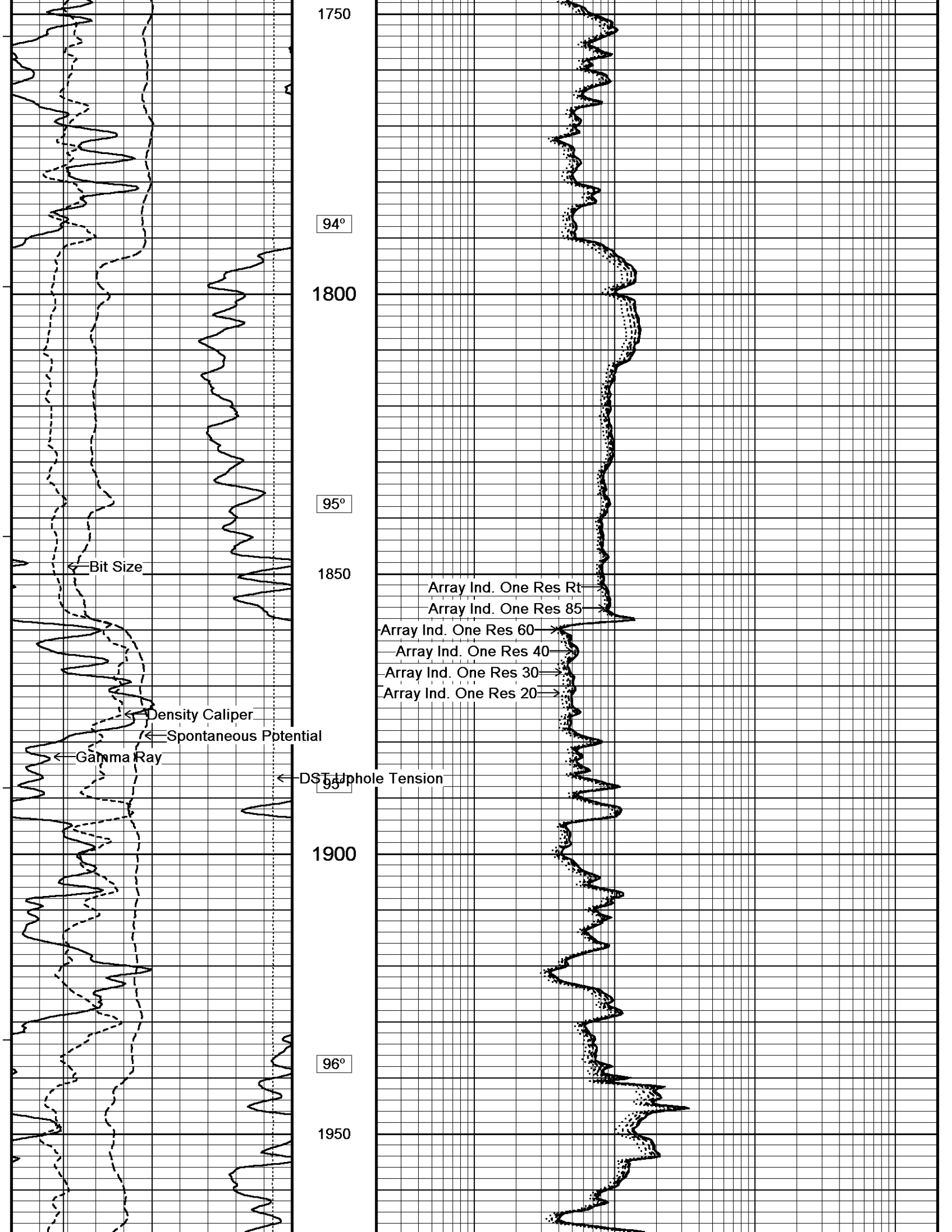
2 INCH MAIN LOG

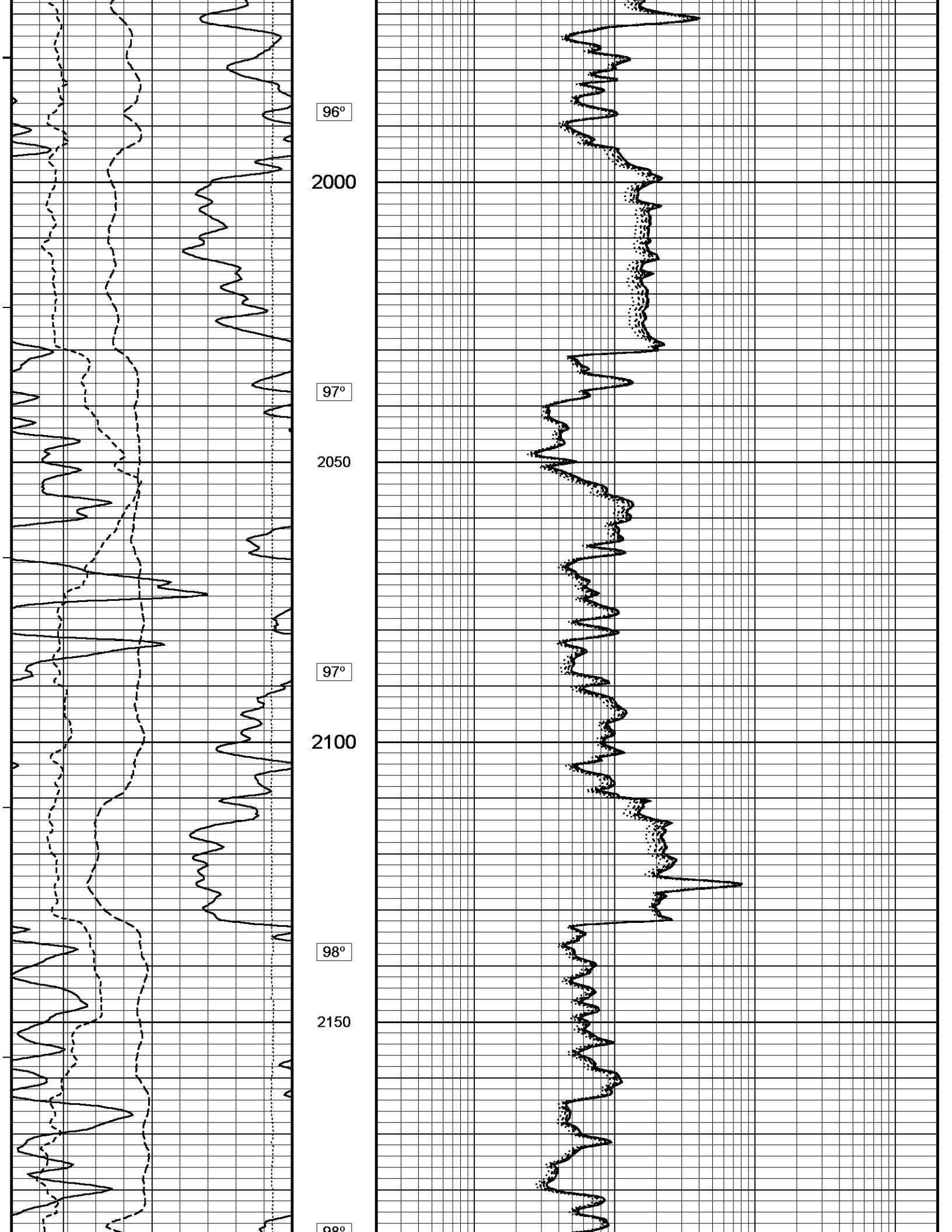
5 INCH MAIN LOG

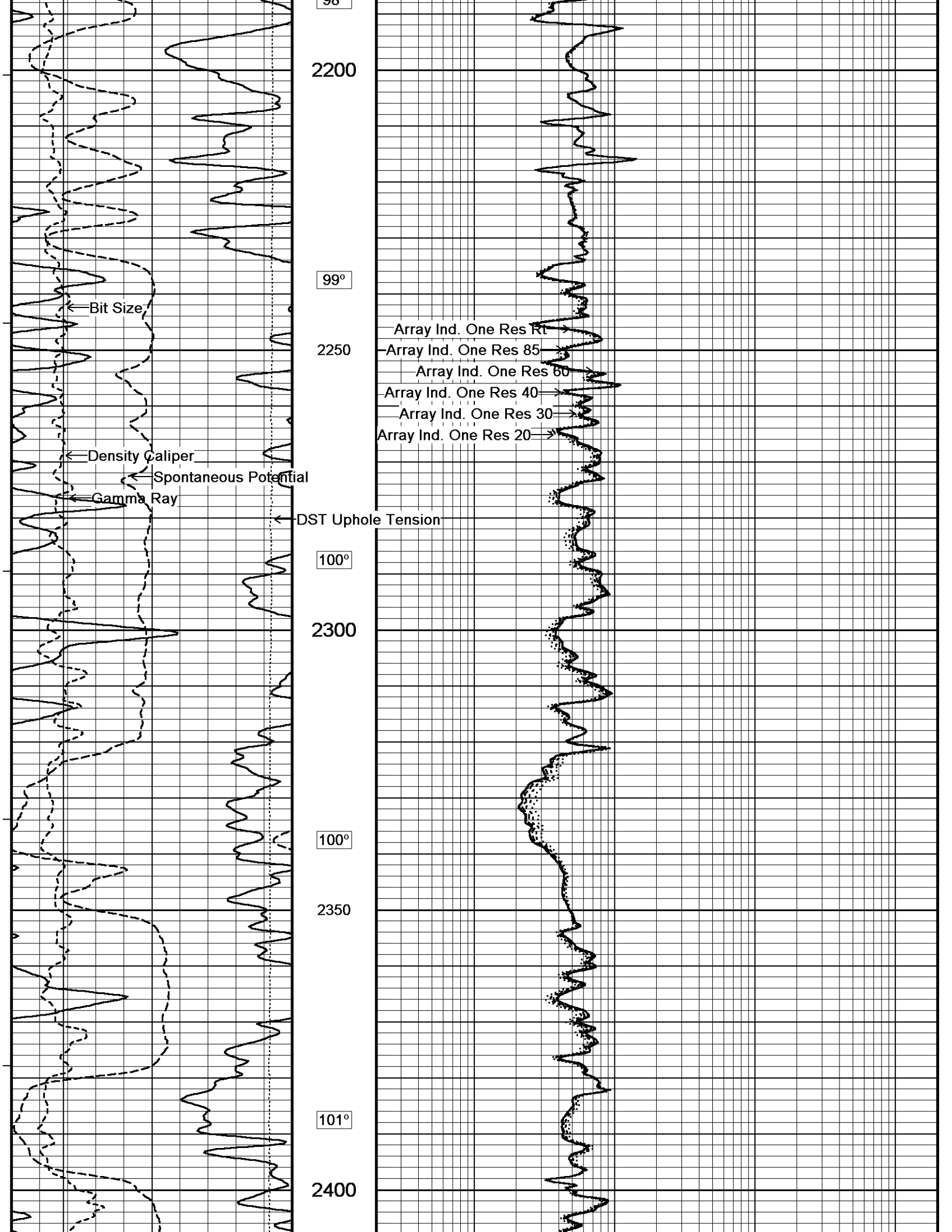
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 09-DEC-2011 15:36
Filename: C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\DOWN_LOG3.dta — Recorded on 07-DEC-2011 09:07
System Versions: Logged with 12.02.4401 Processed with 12.02.4401 Plotted with 12.01.3513

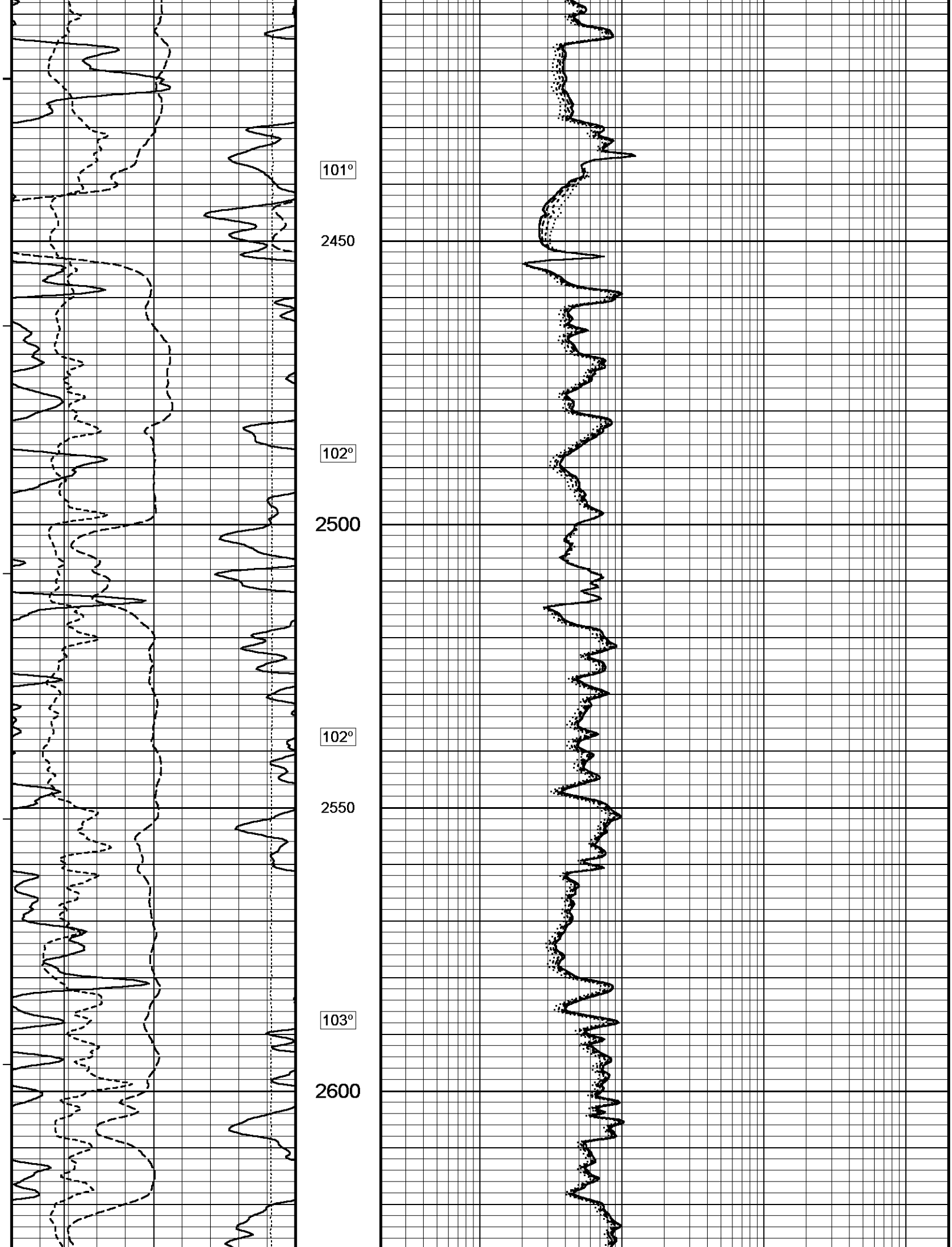


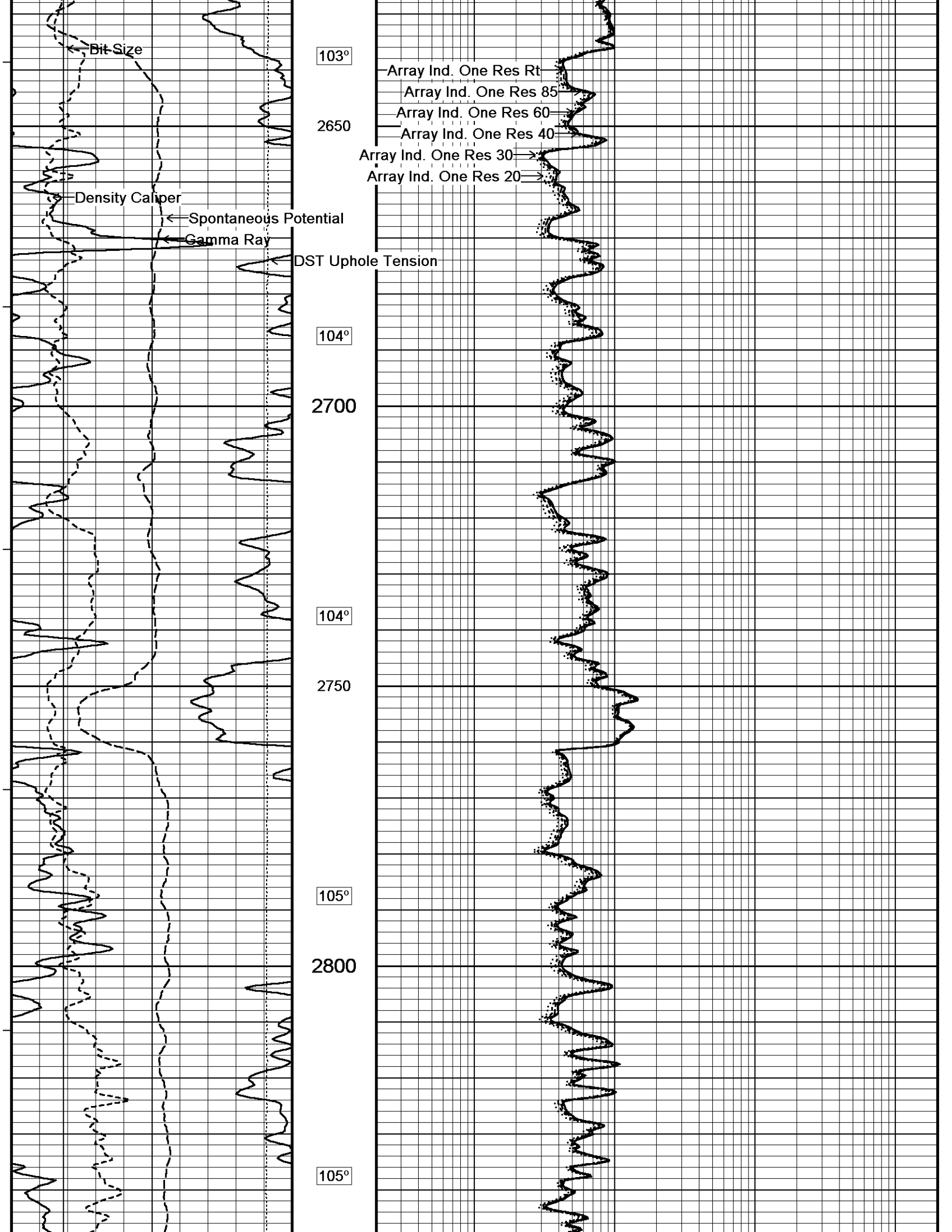

1530
Casing
Shoe
1550
92°
1600
93°
1650
93°
1700
94°

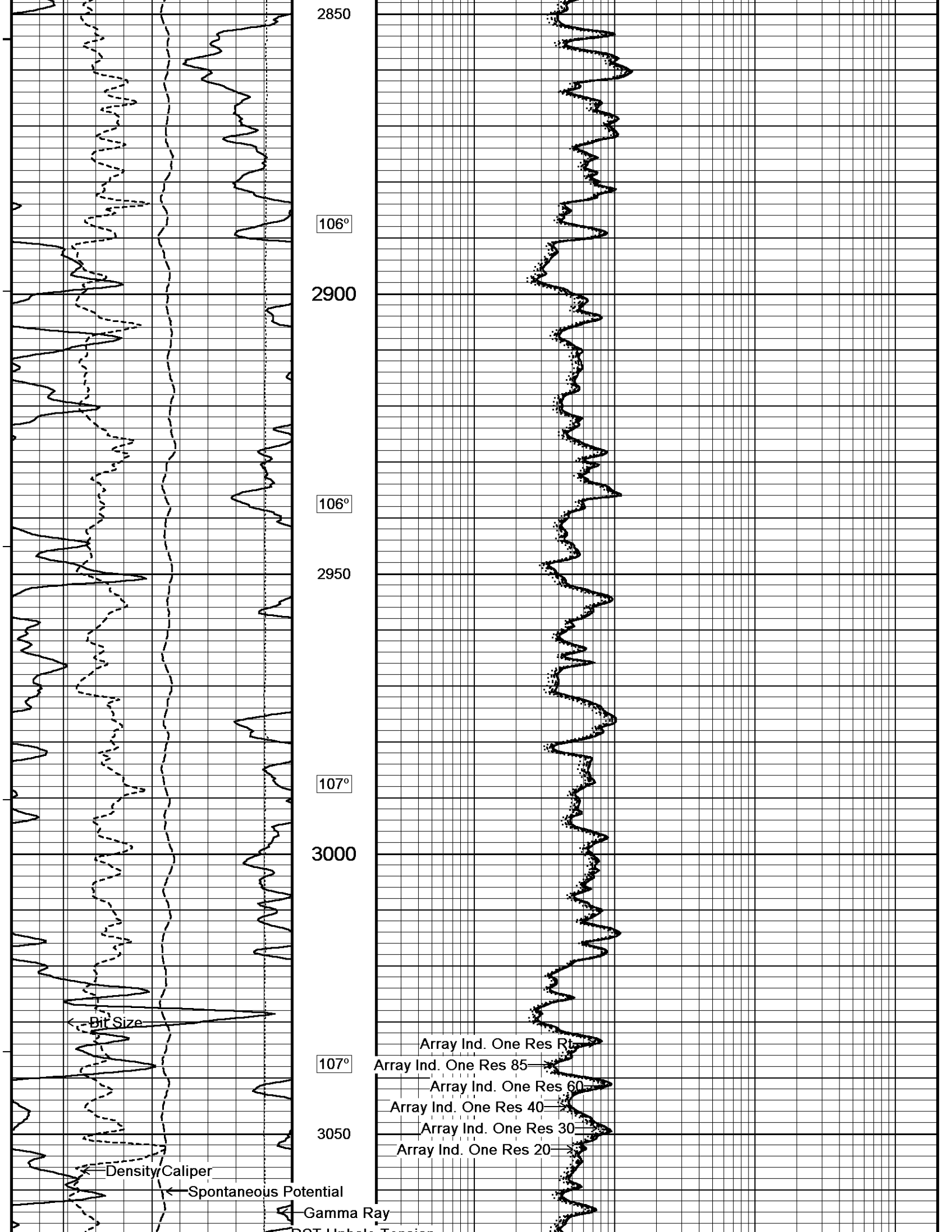

1750
94°
1800
95°
Bit Size
1850
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
1900
96°
1950


96°
2000
97°
2050
97°
2100
98°
2150
98°


98
2200
99°
Bit Size
Array Ind. One Res Rt
2250
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
100°
2300
100°
2350
101°
2400


101°
2450
102°
2500
102°
2550
103°
2600


Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
103°
2650
104°
2700
104°
2750
105°
2800
105°


2850
106°
2900
106°
2950
107°
3000
Bit Size
107°
3050
Density Caliper
Spontaneous Potential
Gamma Ray
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Array Ind. One Res 40
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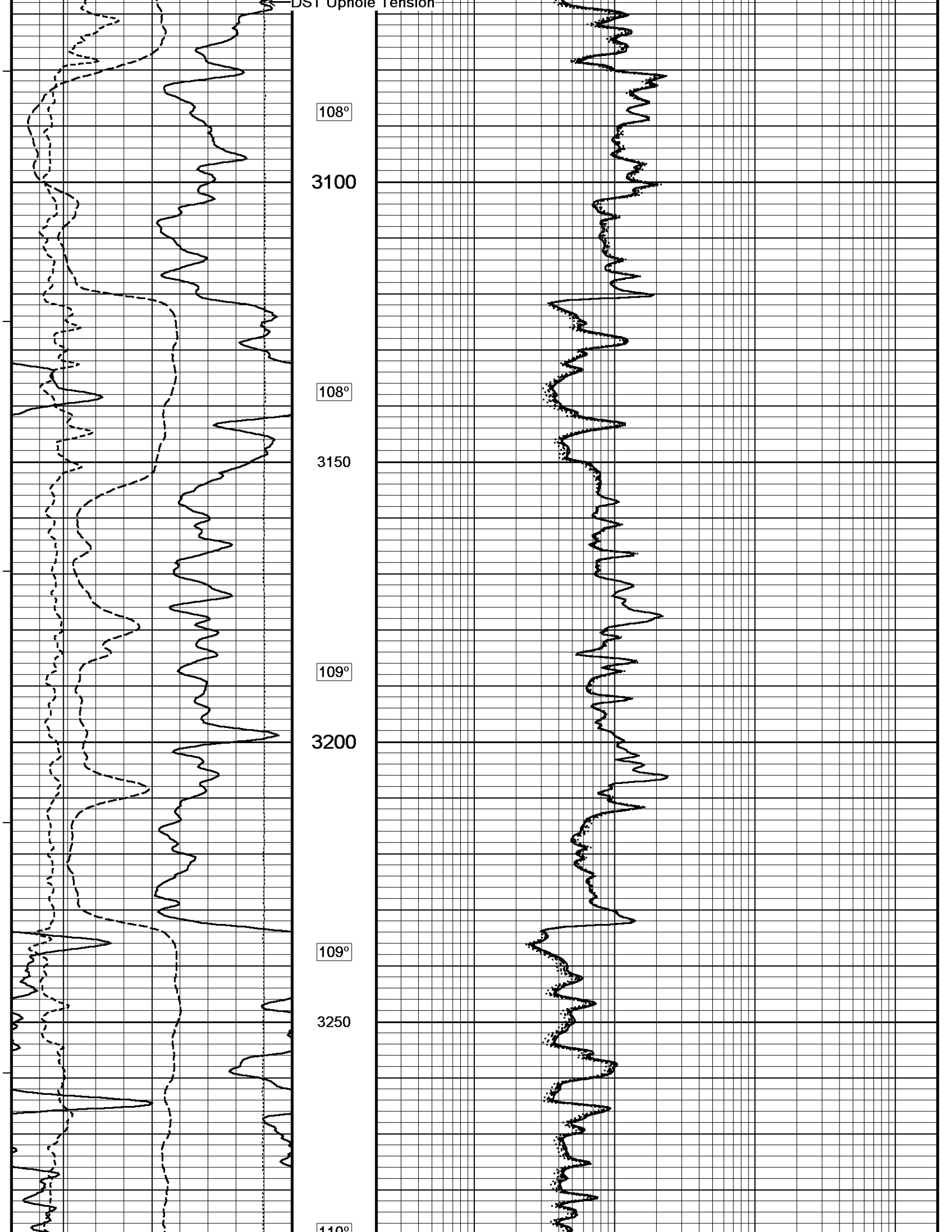
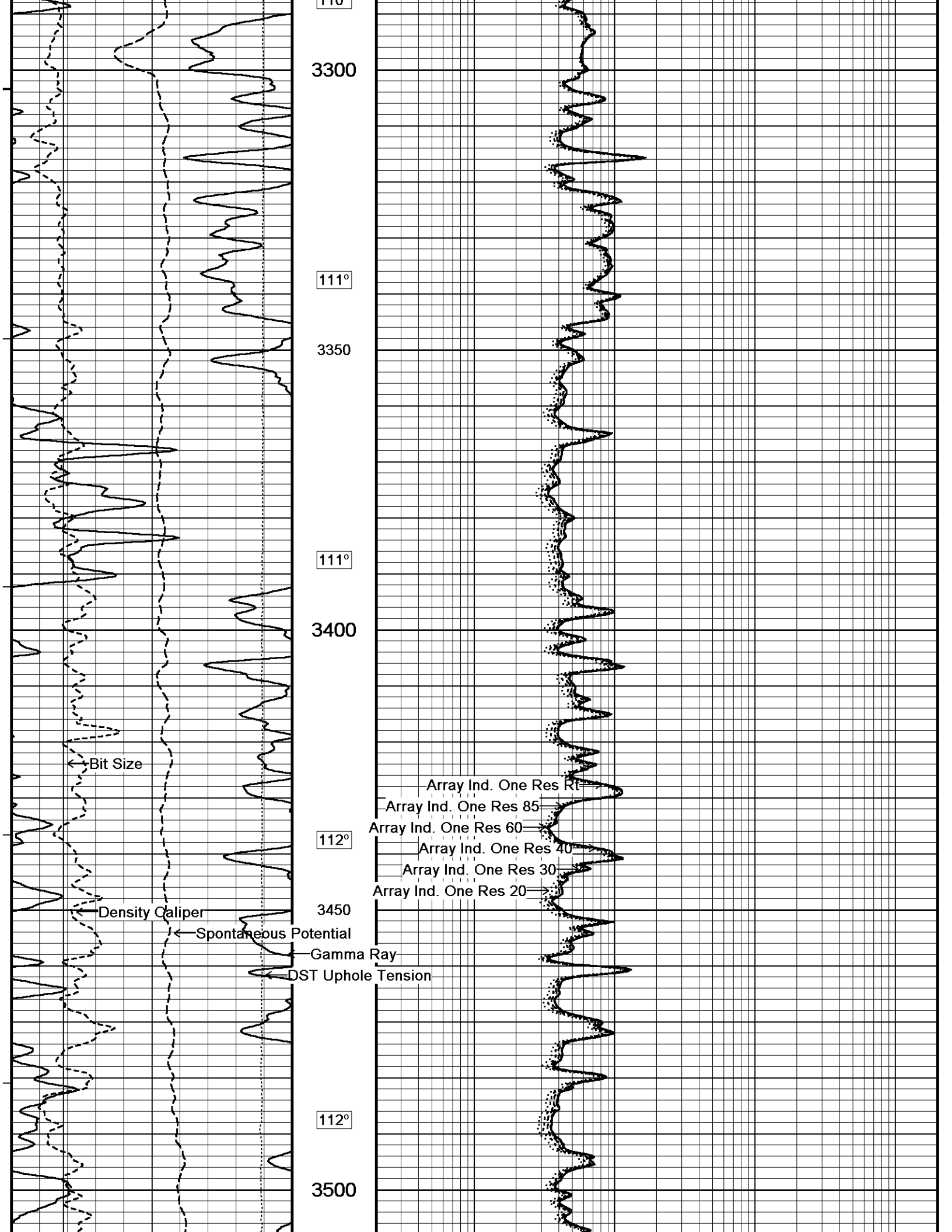
Array Ind. One Res 20


DST Uphole Tension
108°
3100
108°
3150
109°
3200
109°
3250
110°


110
3300
111°
3350
111°
3400
Bit Size
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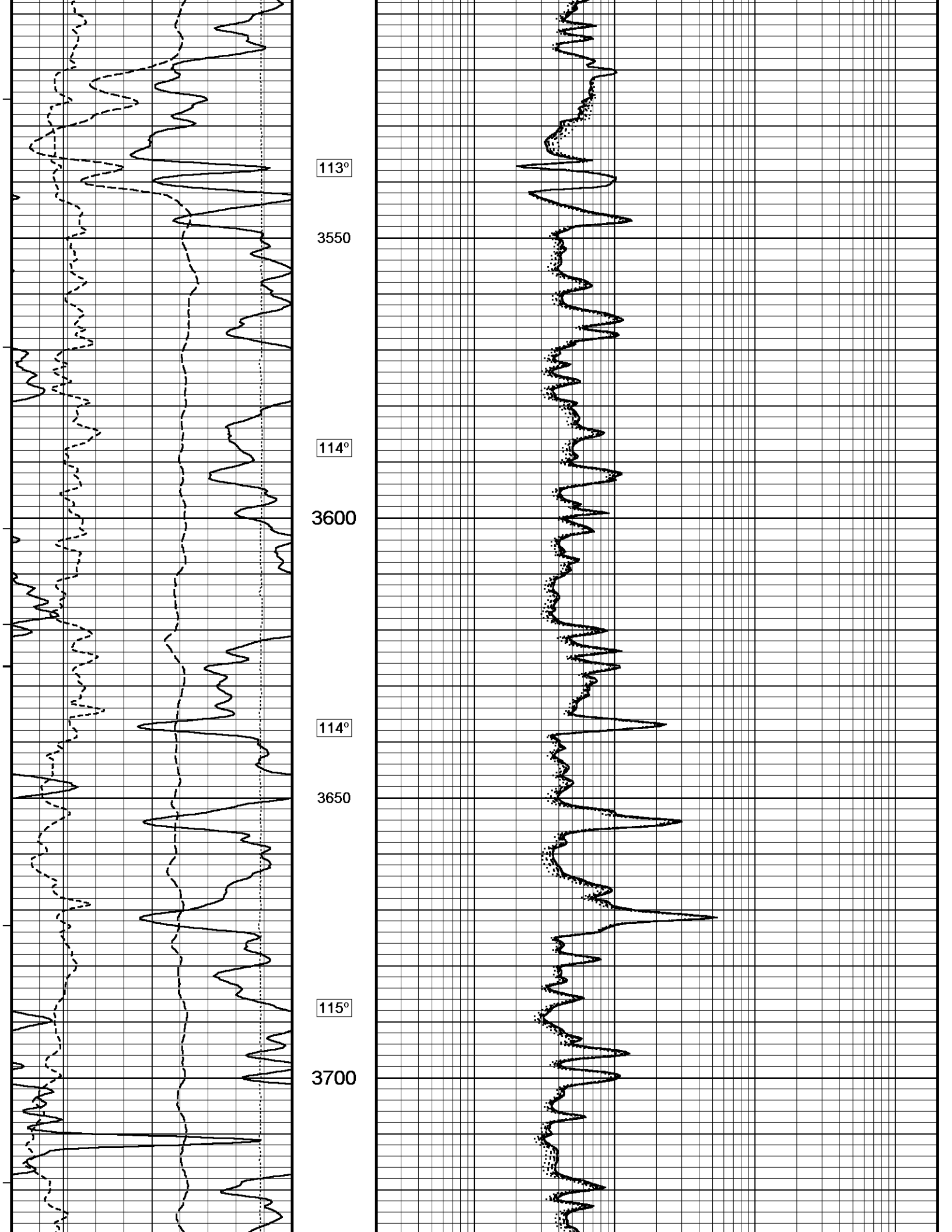
Array Ind. One Res 85
Array Ind. One Res 60
112°
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
3450
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
112°
3500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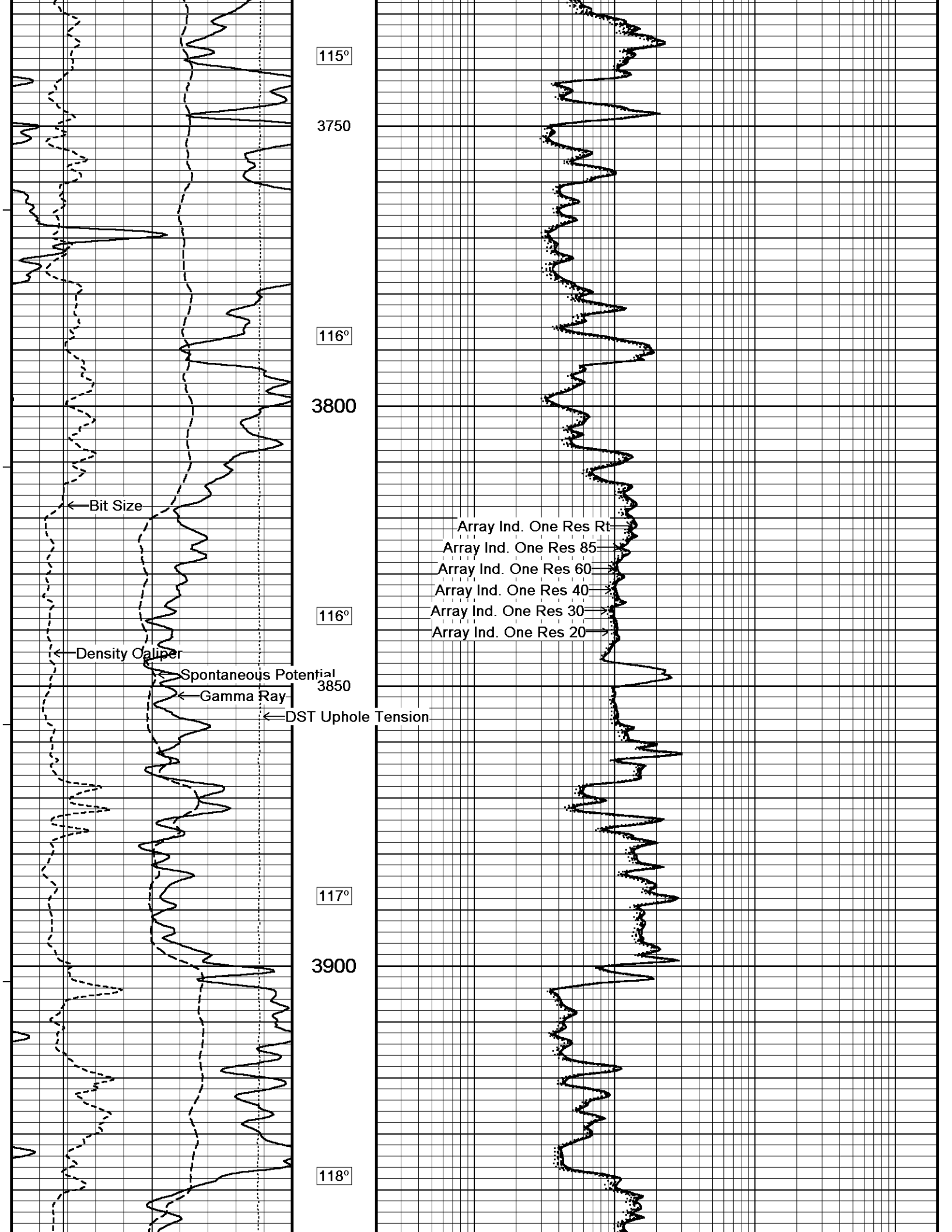
3550
114°
3600
114°
3650
115°
3700


115°
3750
116°
3800
Bit Size
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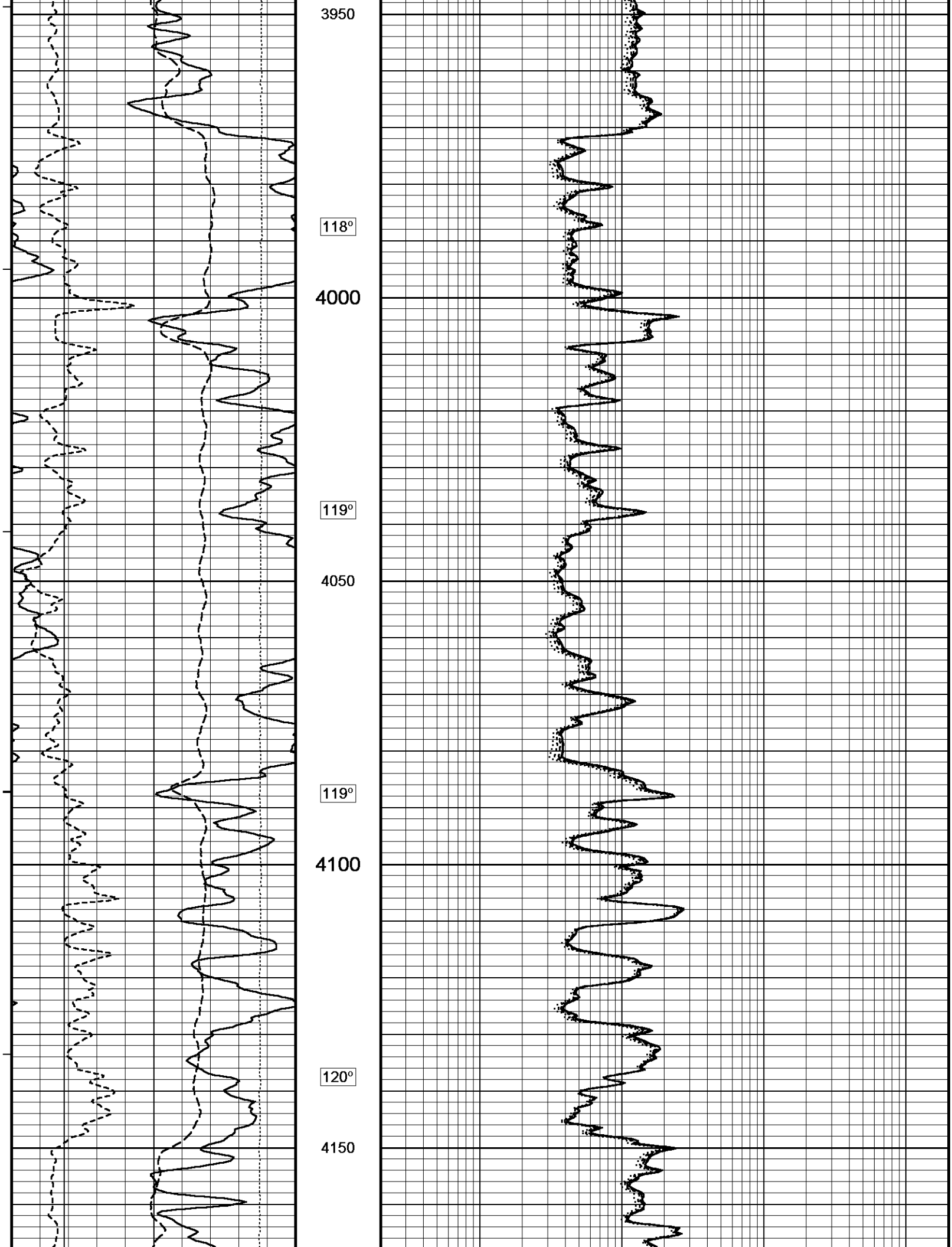
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
116°
Density Caliper
Spontaneous Potential
3850
Gamma Ray
DST Uphole Tension
117°
3900
118°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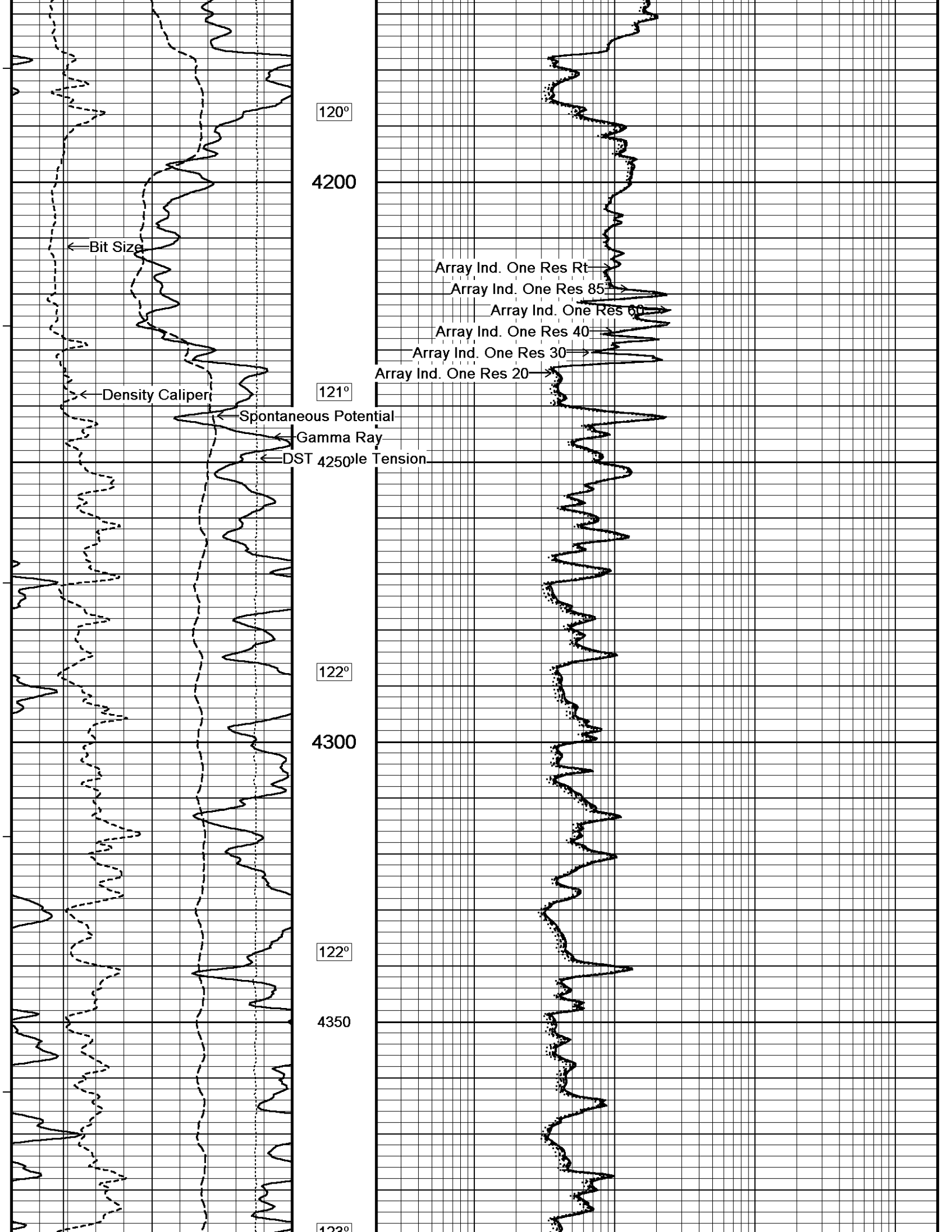
119°
4050
119°
4100
120°
4150


120°
4200
Bit Size
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Array Ind. One Res 40
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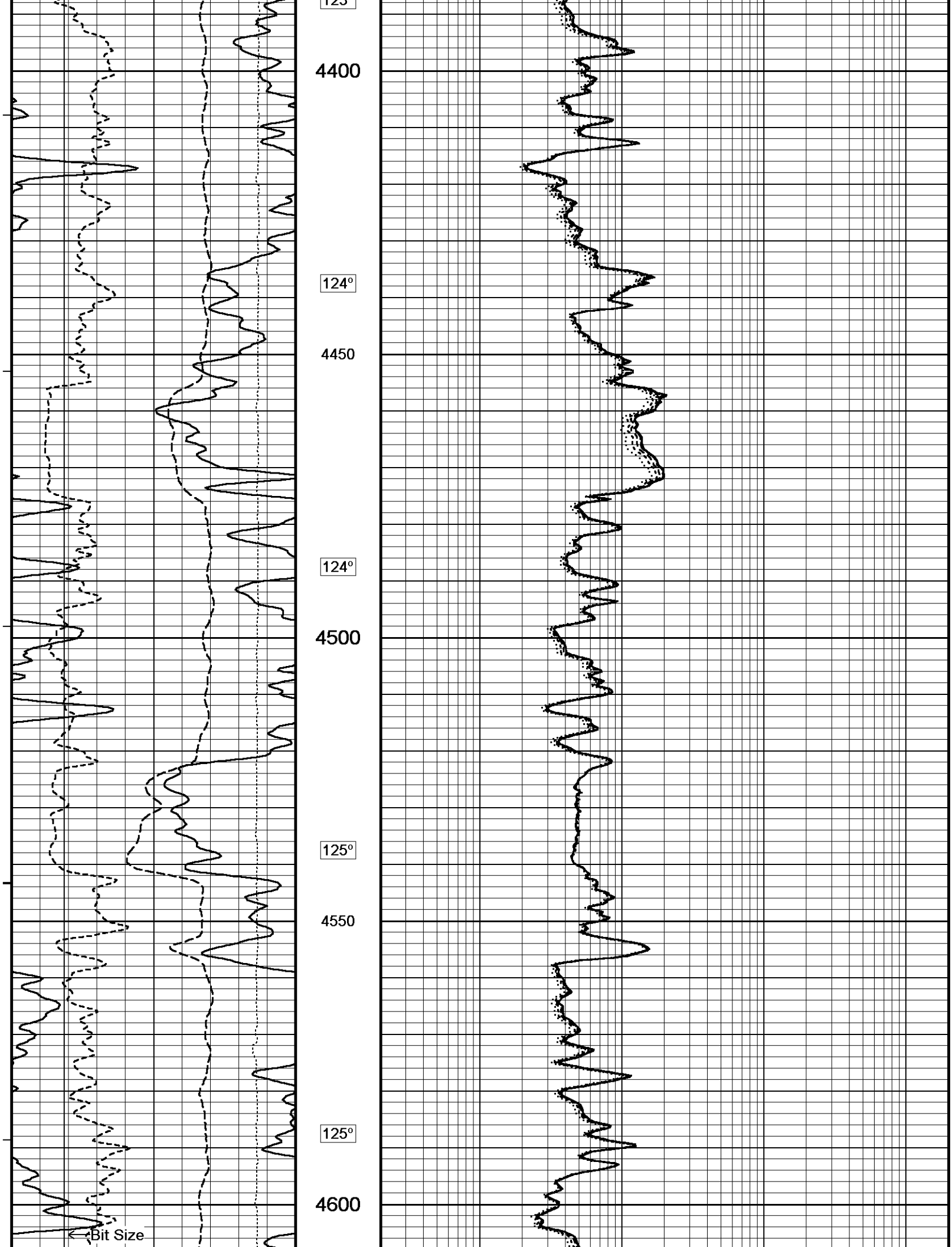
Density Caliper
121°
Spontaneous Potential
Gamma Ray
DST
4250
le Tension
122°
4300
122°
4350


123
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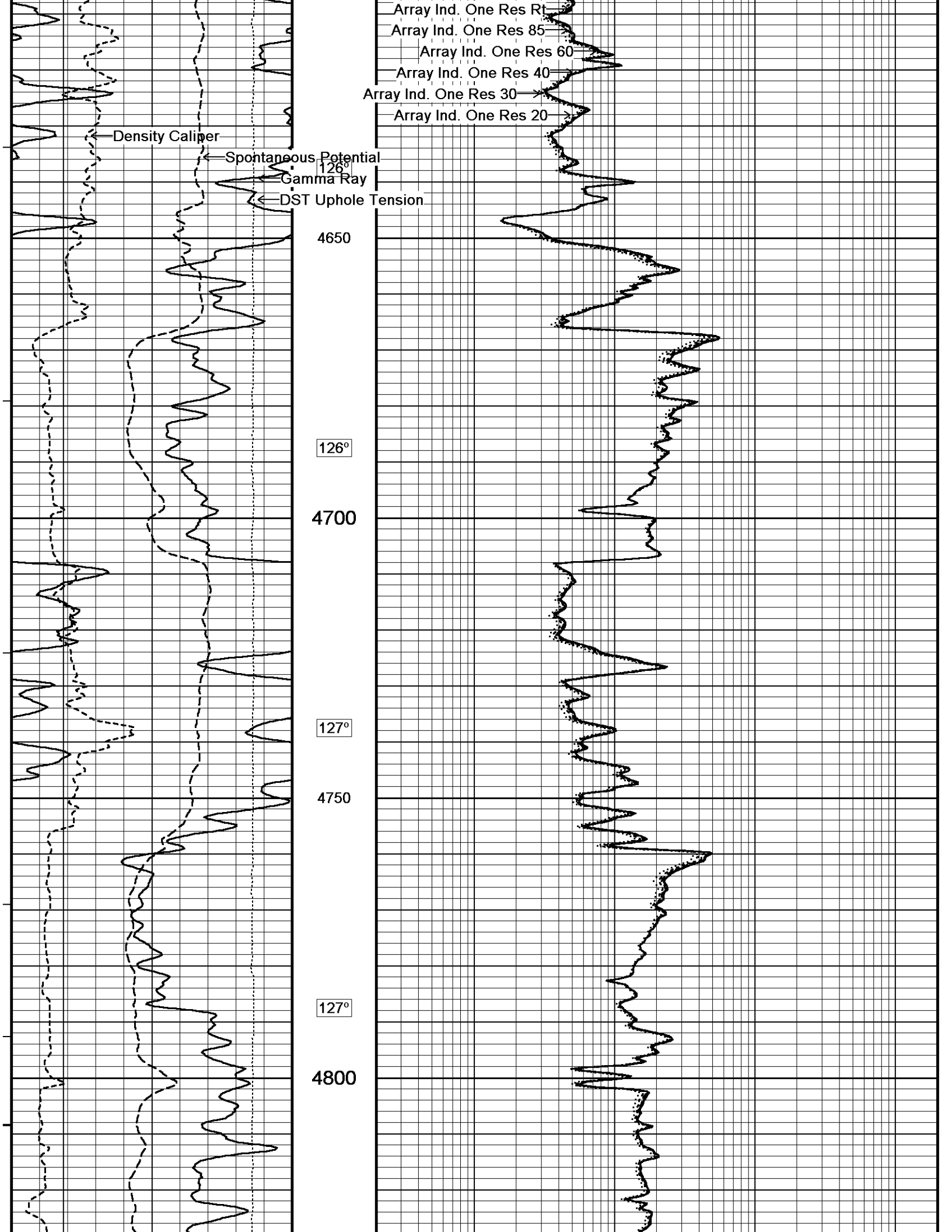
124°
4450
124°
4500
125°
4550
125°
4600
Bit Size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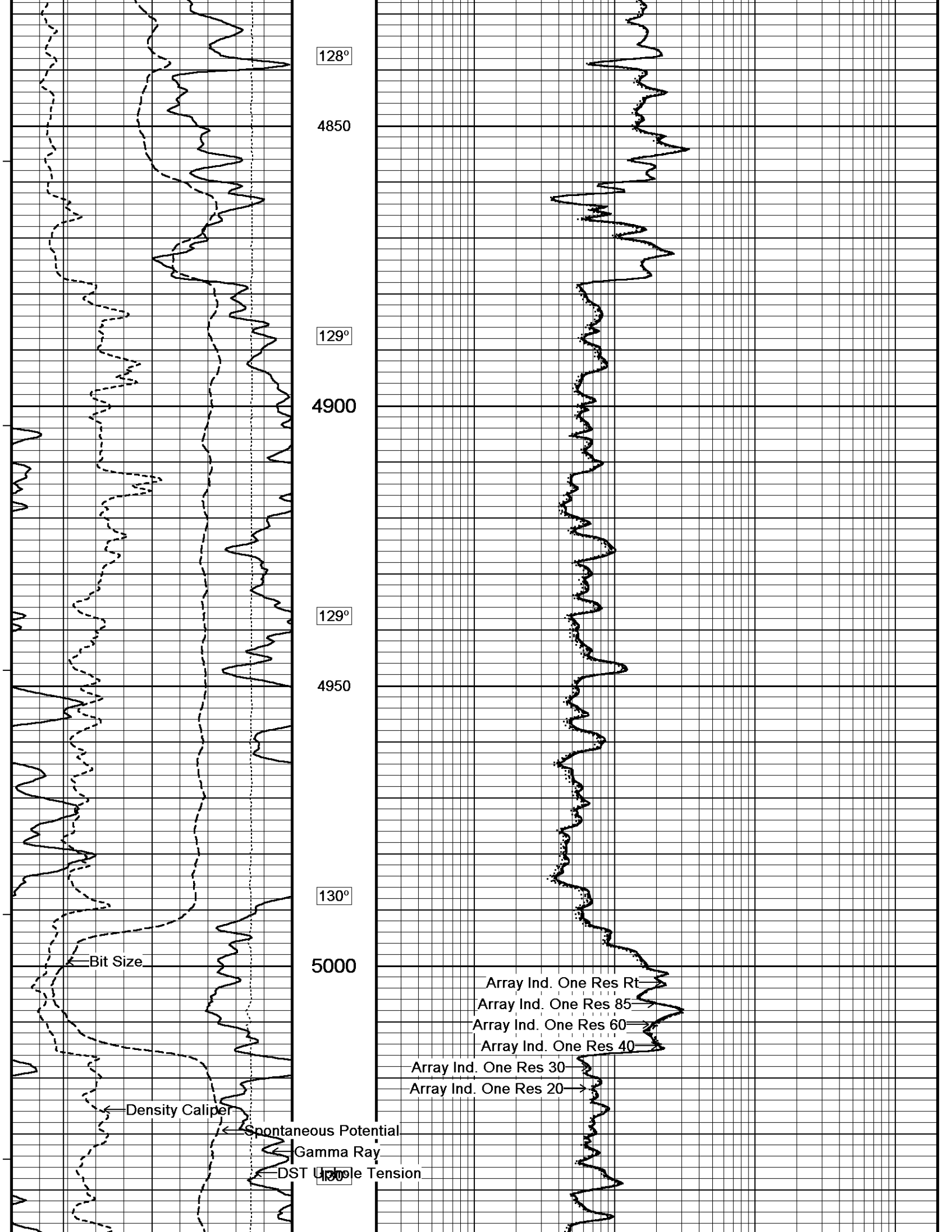
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
Density Caliper
Spontaneous Potential
126°
Gamma Ray
DST Uphole Tension
4650
126°
4700
127°
4750
127°
4800


128°
4850
129°
4900
129°
4950
130°
5000
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
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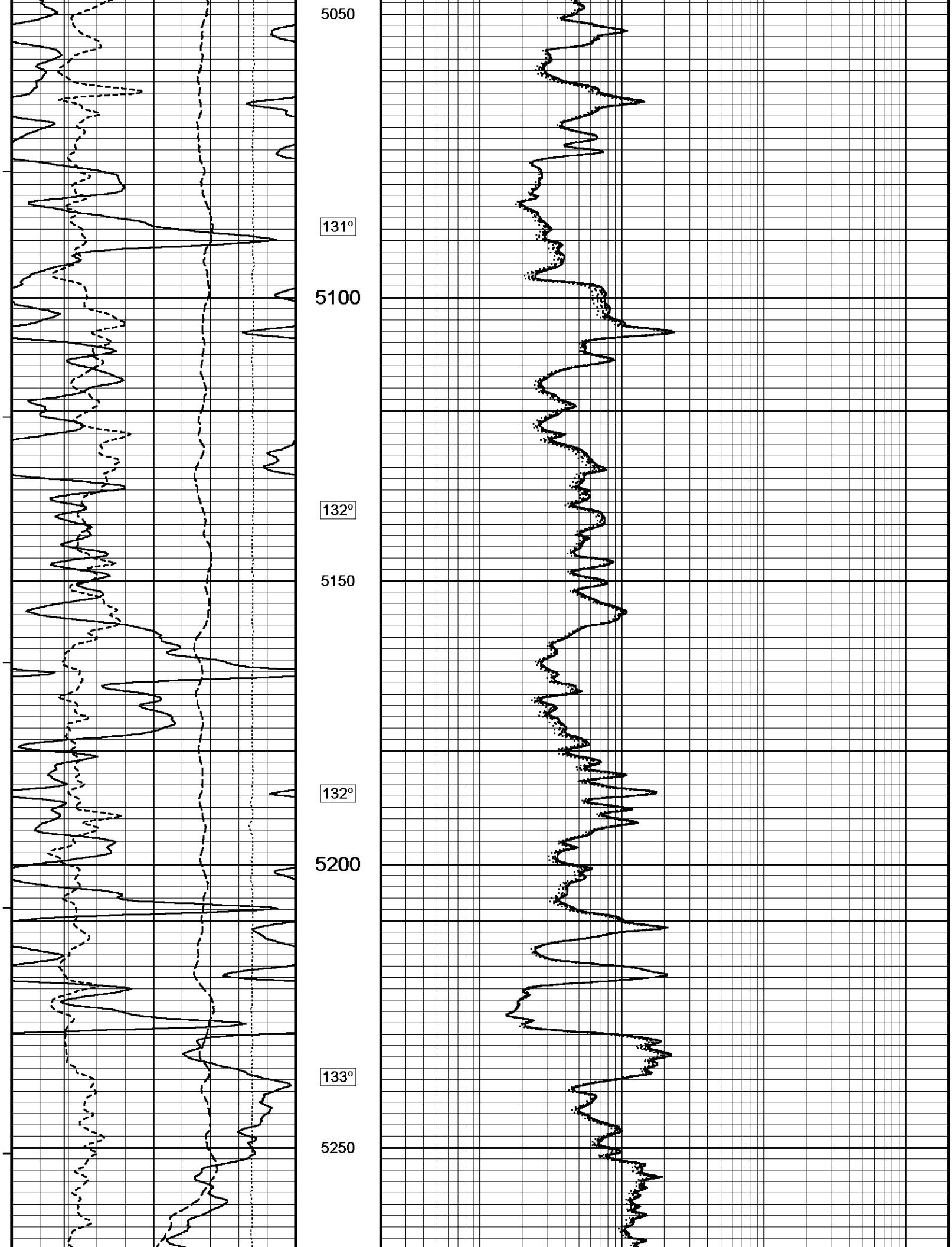
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20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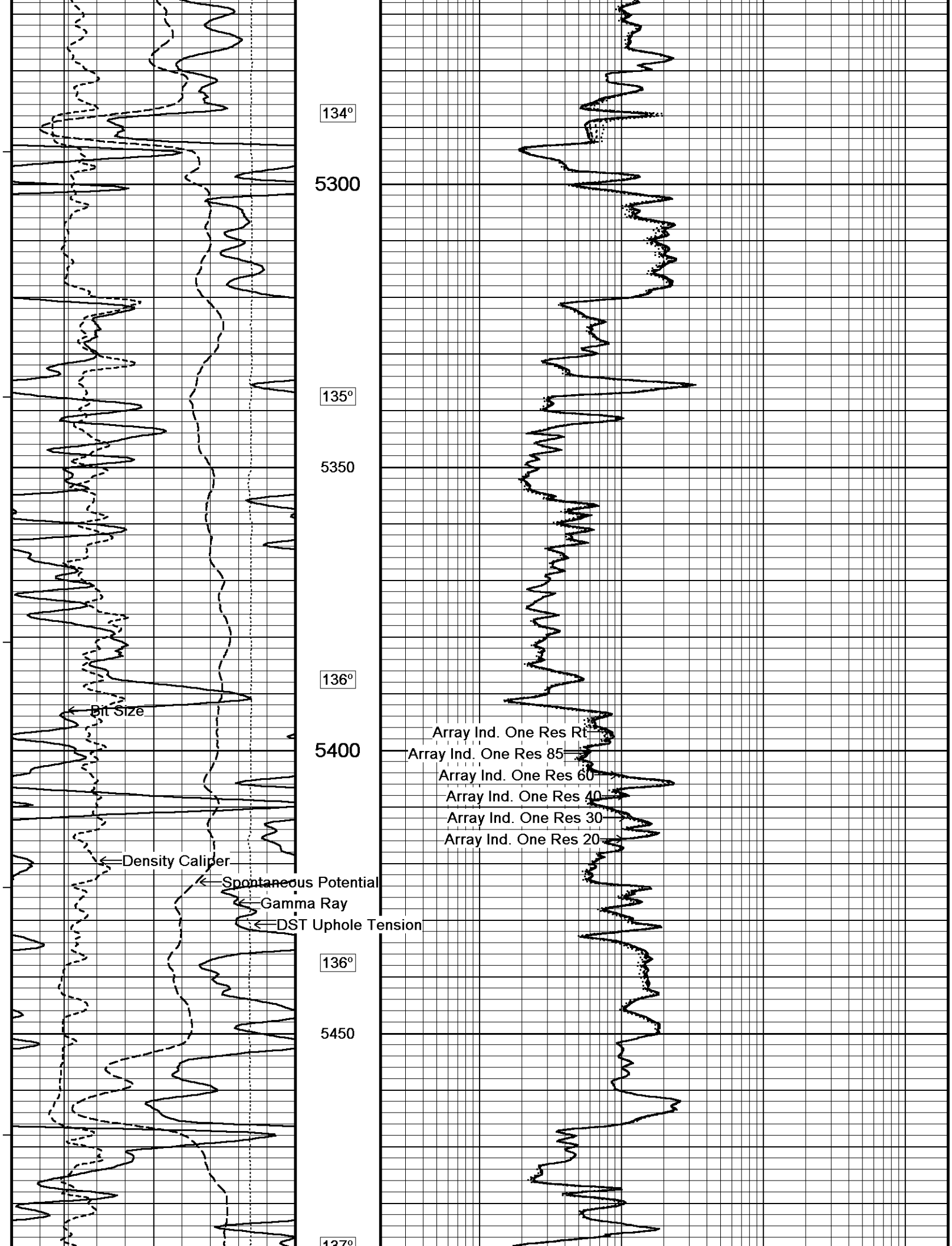
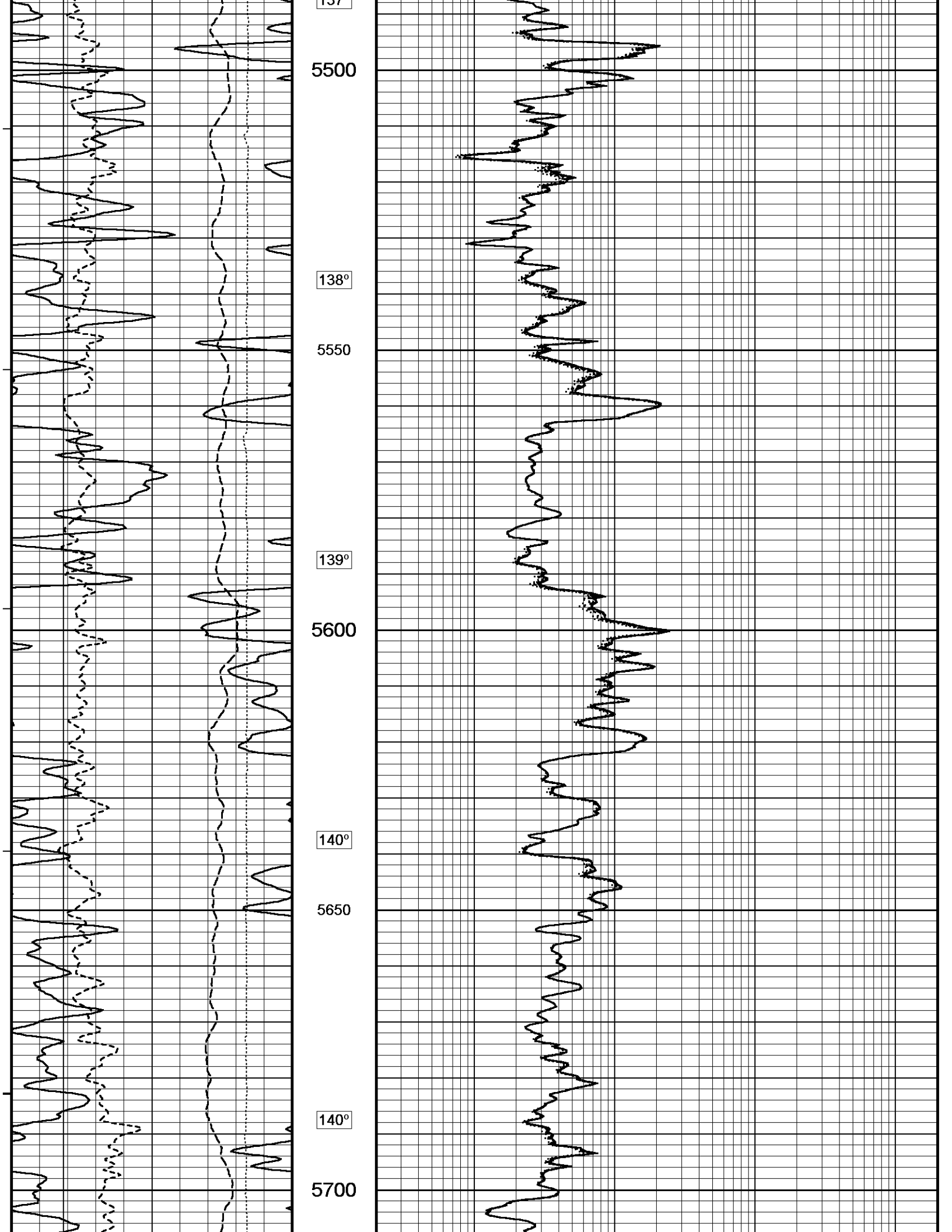
132°
5150
132°
5200
133°
5250


134°
5300
135°
5350
136°
Bit Size
5400
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
136°
5450
137°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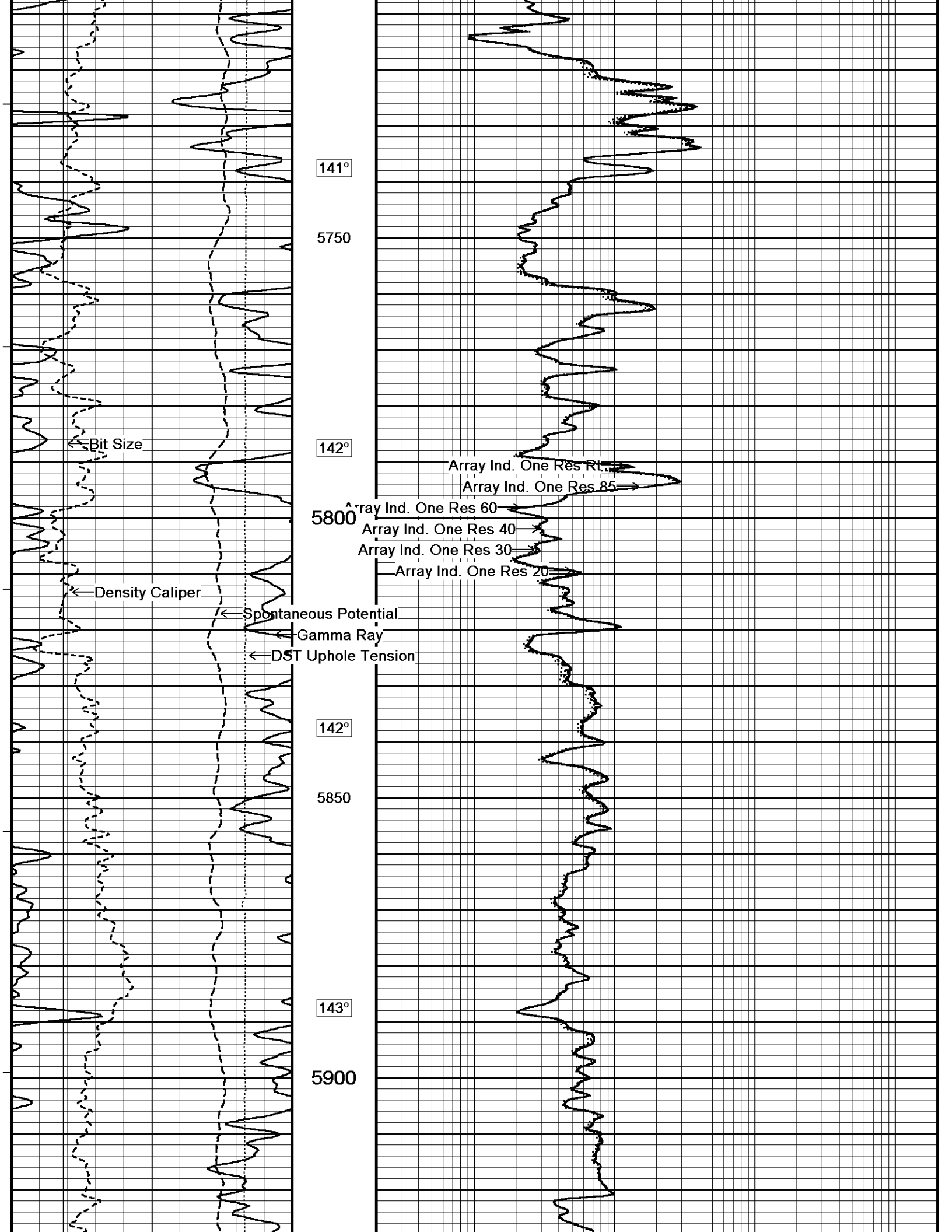
139°
5600
140°
5650
140°
5700


141°
5750
142°
Bit Size
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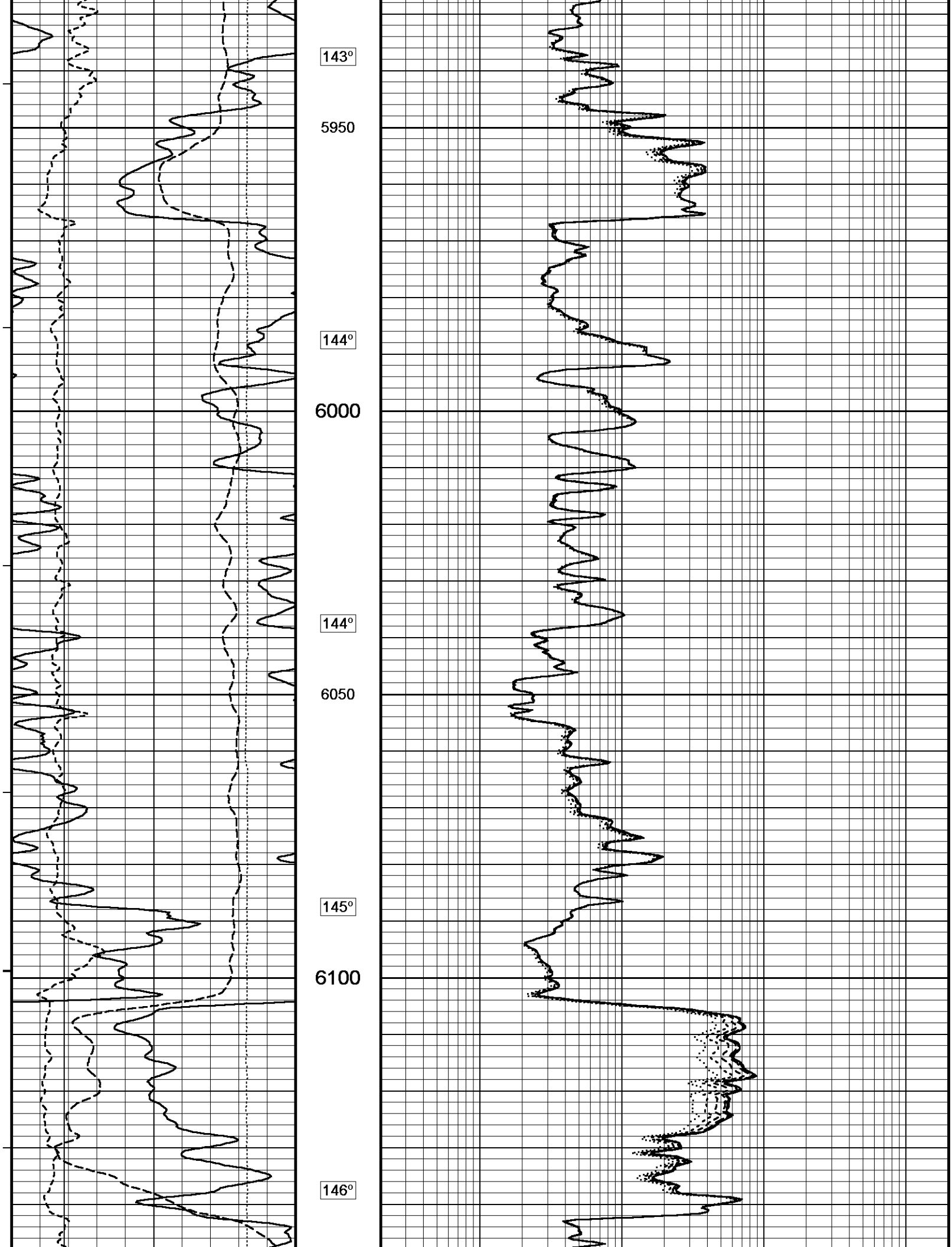
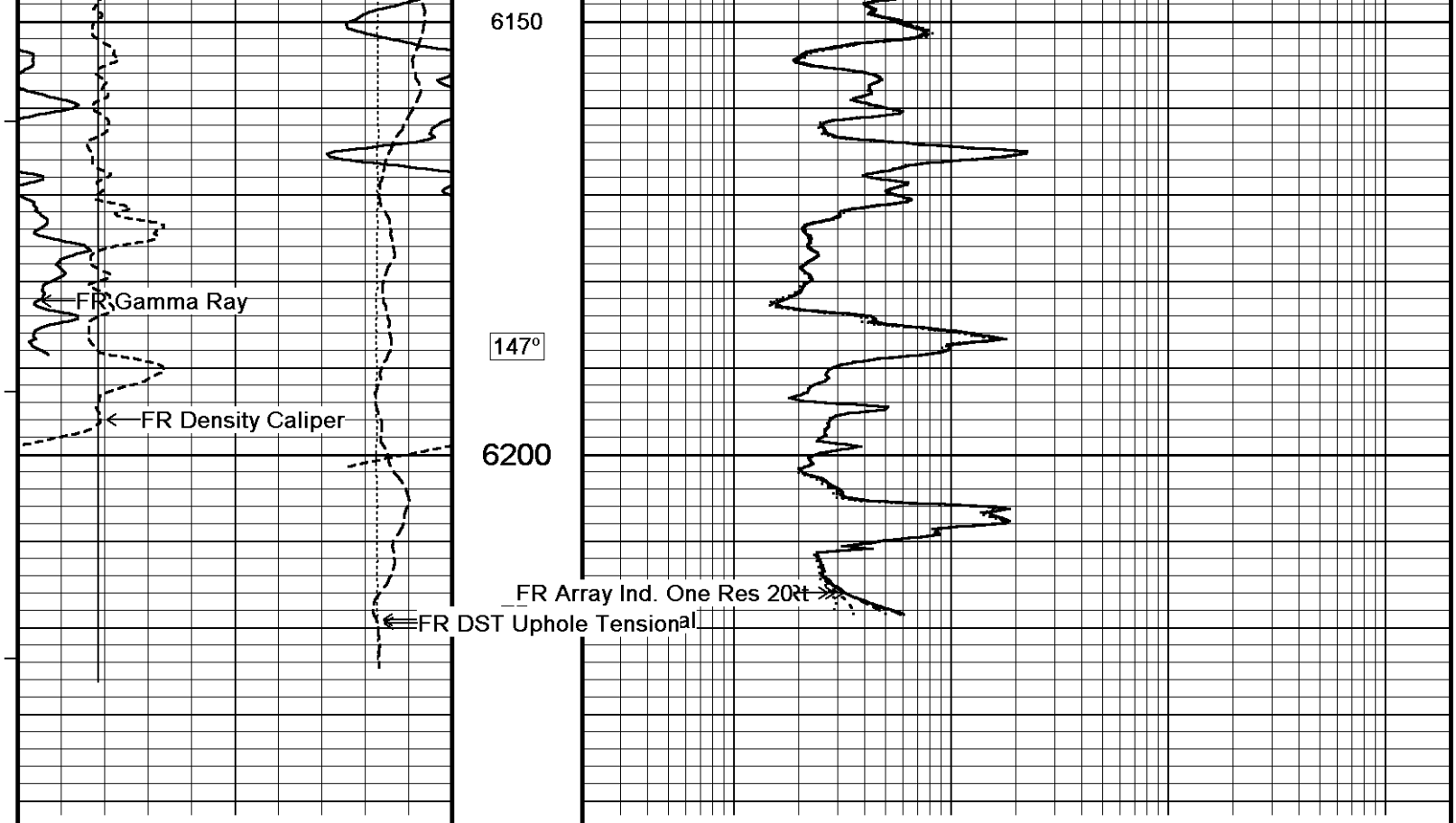
Array Ind. One Res 85
5800
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
142°
5850
143°
5900


143°
5950
144°
6000
144°
6050
145°
6100
146°



DSC in Feet

Timing Marks
every 60.0 sec

DST Uphole Tension
pounds
10000 5000 0
0 -5000 -10000

Gamma Ray
API
0 75 150

Borehole Temp in deg F

Spontaneous Potential
millivolts
– → | 10 | ← +

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

Replay Scale 1:240

Array Ind. One Res 20
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 30
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 40
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 60
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 85
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res Rt
ohm metres
0.20 2000
1 10 100 1000

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 09-DEC-2011 15:36

Filename: C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\DOWN_LOG3.dta Recorded on 07-DEC-2011 09:07
System Versions: Logged with 12.02.4401 Processed with 12.02.4401 Plotted with 12.01.3513

5 INCH MAIN LOG

UPPER REPEAT SECTION OVERLAY DSC

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 09-DEC-2011 15:36
Filename: C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\Casing.dta Recorded on 07-DEC-2011 07:11
Filename: C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\DOWN_LOG3.dta Recorded on 07-DEC-2011 09:07
System Versions: Logged with 12.02.4401 Processed with 12.02.4401 Plotted with 12.01.3513

Timing Marks
every 60.0 sec

DST Uphole Tension
pounds
10000 5000 0
0 -5000 -10000

Gamma Ray
API
0 75 150

Spontaneous Potential
millivolts
− → | 10 | ← +

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

Depth In Feet

Borehole Temp in deg F

Replay Scale 1:240

1538

1550

93°

Array Ind. One Res 20
ohm metres
0.20 2000
1 10 100 1000

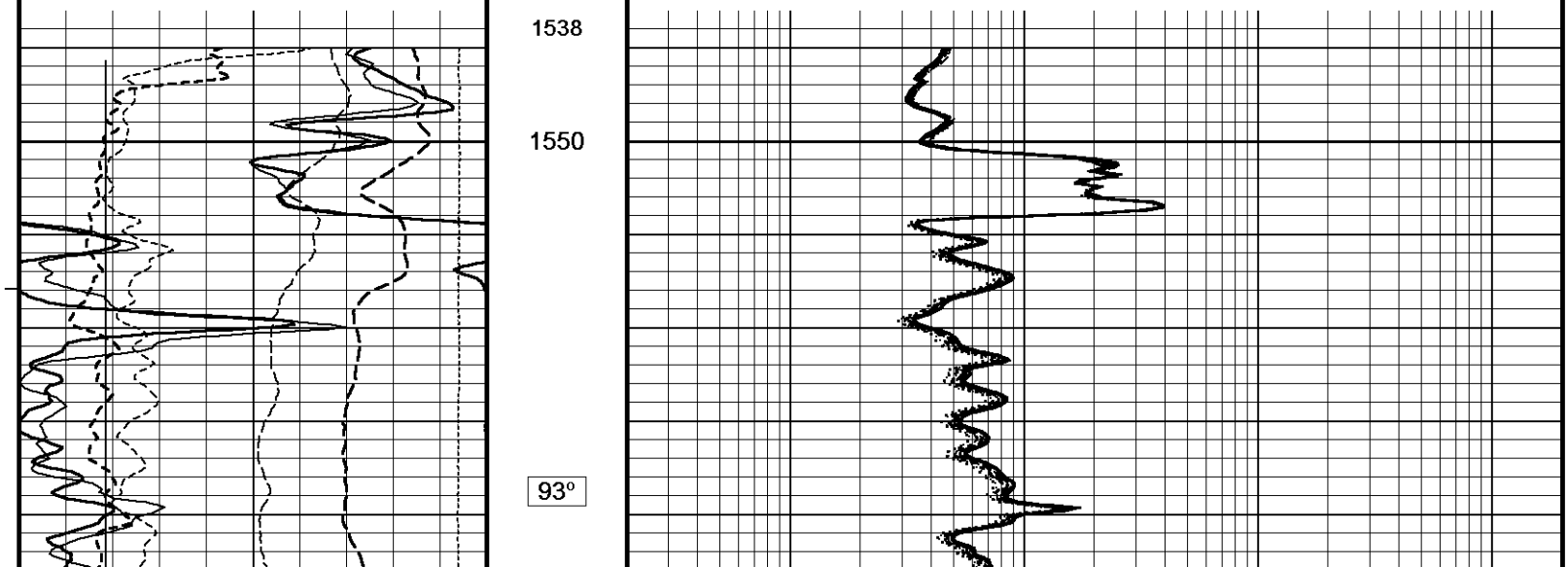
Array Ind. One Res 30
ohm metres
0.20 2000
1 10 100 1000

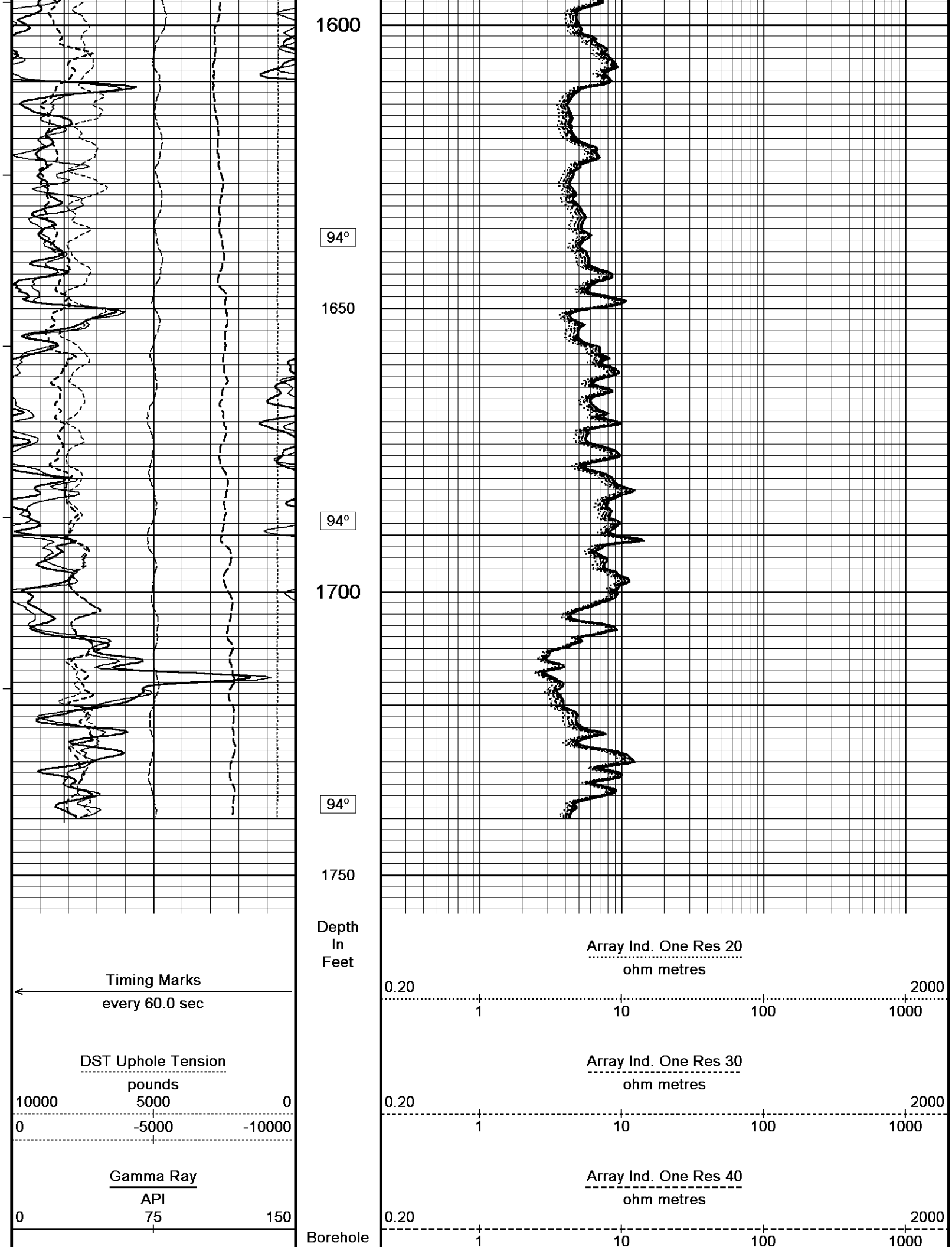
Array Ind. One Res 40
ohm metres
0.20 2000
1 10 100 1000

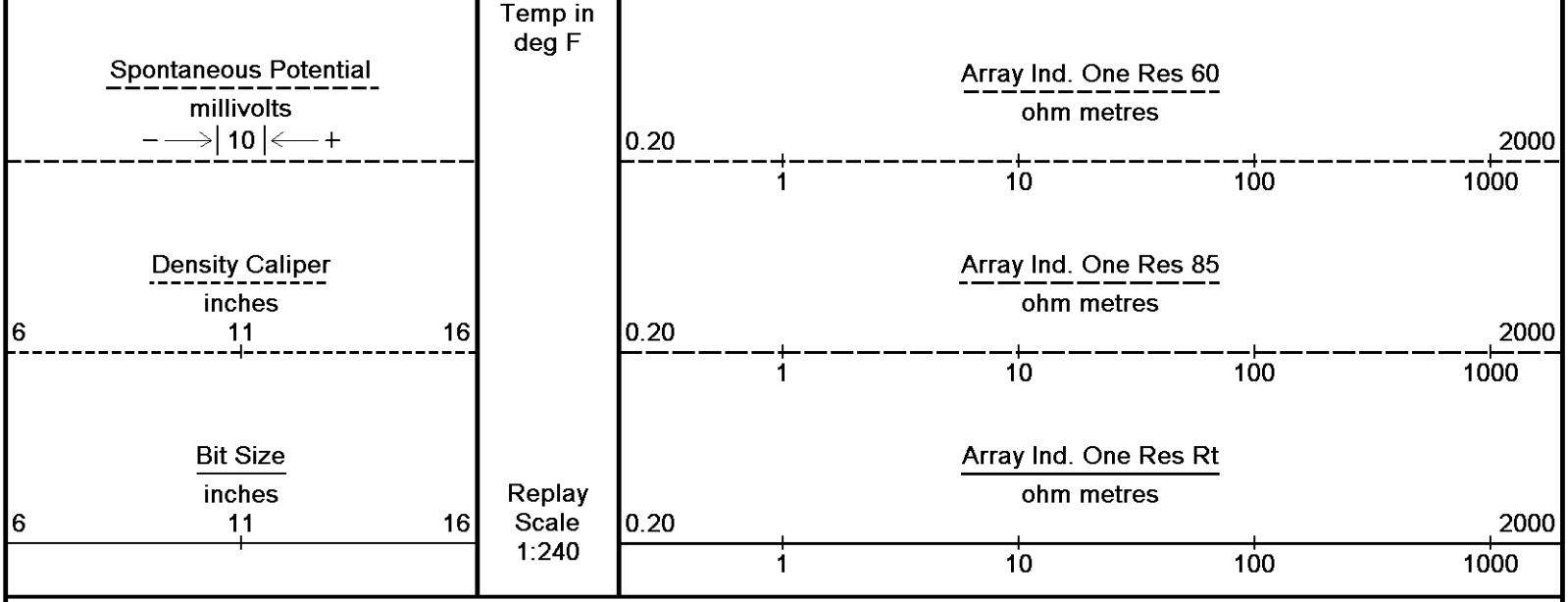
Array Ind. One Res 60
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 85
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res Rt
ohm metres
0.20 2000
1 10 100 1000




1600
94°
1650
94°
1700
94°
1750
Depth
In
Feet
Timing Marks
every 60.0 sec
DST Uphole Tension
pounds
10000
5000
0
0
-5000
-10000
Gamma Ray
API
0
75
150
Borehole
Array Ind. One Res 20
ohm metres
0.20
2000
1
10
100
1000
Array Ind. One Res 30
ohm metres
0.20
2000
1
10
100
1000
Array Ind. One Res 40
ohm metres
0.20
2000
1
10
100
1000



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 09-DEC-2011 15:36
Filename: C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\Casing.dta — Recorded on 07-DEC-2011 07:11
Filename: C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\DOWN_LOG3.dta — Recorded on 07-DEC-2011 09:07
System Versions: Logged with 12.02.4401 Processed with 12.02.4401 Plotted with 12.01.3513

UPPER REPEAT SECTION OVERLAY DSC

BEFORE SURVEY CALIBRATION

C:\DOCUME~1\e154681\LOCALS~1\Temp\Weatherford PreView\0\DOWN_LOG3.dta

General Constants All 000

Last Edited on 07-DEC-2011 05:31

General Parameters		
Mud Resistivity	4.260	ohm-metres
Mud Resistivity Temperature	76.400	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 All 000

Field Calibration on 24-OCT-2010 04:34

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

Down-hole Tension Calibration SMS 0

Field Calibration on 07-DEC-2011 06:41

Reading No	Measured	Calibrated (lbs)
1	17182.45	0.00
2	17346.58	300.00

High Resolution Temperature Calibration MCG-C 115

Field Calibration on 01-JUL-2011 11:21

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

High Resolution Temperature Constants MCG-C 115

Last Edited on

Pre-filter Length	11

SP Calibration MCG-C 115

Field Calibration on 28-NOV-2011 15:19

	Measured	Calibrated (mV)
Reference 1	103.4	100.2
Reference 2	-97.4	-100.2

Gamma Calibration MCG-C 115

Field Calibration on 06-DEC-2011 14:39

	Measured	Calibrated (API)
Background	76	51
Calibrator (Gross)	853	570
Calibrator (Net)	777	519

Gamma Constants MCG-C 115

Last Edited on 07-DEC-2011 07:03

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

Neutron Calibration MDN-B.J 372

Base Calibration on 07-NOV-2011 14:49
Field Check on 06-DEC-2011 14:55

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2901	89	3714	110
Ratio	32.694		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	2354	3415
Ratio	0.689	

Field Check

	Calibrated (cps)	
	2315	3427
Ratio	0.676	

Neutron Constants MDN-B.J 372

Last Edited on 07-DEC-2011 07:03

Neutron Source Id	P31115B	
Neutron Jig Number	NJ5299	
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 102

Base Calibration on 07-NOV-2011 11:17
Field Check on 06-DEC-2011 14:45

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	978.7	126.8
Base Check		280.0
Field Check		280.0

FE Constants MFE-A.A 102

Last Edited on 07-DEC-2011 05:29

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Caliper Source for FE correction	Density Caliper	
Caliper Value for FE correction	N/A	inches
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Stand-off	1.0	inches

High Resolution Temperature Calibration MAI-B.A 268

Field Calibration on 10-OCT-2011 15:43

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

High Resolution Temperature Constants MAI-B.A 268

Last Edited on

Pre-filter Length	11

Induction Calibration MAI-B.A 268

Base Calibration on 07-NOV-2011 13:33
Field Check on 06-DEC-2011 14:33

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	17.2	459.3	9.3	966.2
2	6.5	375.4	7.6	821.4
3	3.7	255.1	5.2	566.0
4	2.2	131.8	2.6	279.2
Array Temperature		74.3	Deg F	

Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	10.8	3926.0	
2	0.0	0.0	28.5	3565.8	
3	0.0	0.0	27.7	3080.5	
4	0.0	0.0	18.7	2084.4	
Deep	0.0	0.0	17.0	2012.9	
Medium	0.0	0.0	40.9	4058.0	
Shallow	0.0	0.0	42.2	5266.3	
Array Temperature	0.0		47.9		Deg F

Induction Constants MAI-B.A 268

Last Edited on 07-DEC-2011 06:55

Induction Model	RtAP-WBM	
Caliper for Borehole Corr.	Density Caliper	
Hole Size for Borehole Correction	N/A	inches
Tool Centred	No	
Stand-off Type	Fins	
Stand-off	1.00	inches
Number of Fins on Stand-off	6.0000	
Stand-off Fin Angle	60.00	degrees
Stand-off Fin Width	0.5000	inches
Borehole Corr. Rm Source	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Squasher Start	0.0020	mhos/metre
Squasher Offset	N/A	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

Caliper Calibration MPD-B 104

Base Calibration on 06-DEC-2011 11:01
Field Calibration on 06-DEC-2011 11:05

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	11778	3.99
2	20380	5.97
3	29068	7.96
4	37241	9.86
5	46400	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.95	7.96

Photo Density Calibration MPD-B 104

Base Calibration on 06-DEC-2011 10:30
Field Check on 06-DEC-2011 10:42

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	36975	12896	52994	19128
Reference 2	17425	2405	25185	2558

Field Check at Base

1270.5	1474.5

Field Check

1271.6	1479.2

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	236	1146		
Reference 1	12925	36819	0.356	0.309
Reference 2	5134	17296	0.303	0.274

Field Check at Base

235.8	1145.9

Field Check

238.5	1148.4

Density Constants MPD-B 104

Last Edited on 07-DEC-2011 05:30

Density Source Id	P15771B	
Nylon Calibrator Number	DNC -D 527	
Aluminium Calibrator Number	DAC-D 527	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.25	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	

DOWNHOLE EQUIPMENT

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3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

SHA-F Compact Swivel Head Adaptor
SHA-F 67 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in

Compact Comms Gamma
MCG-C 115 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Neutron
MDN-B.J 372 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

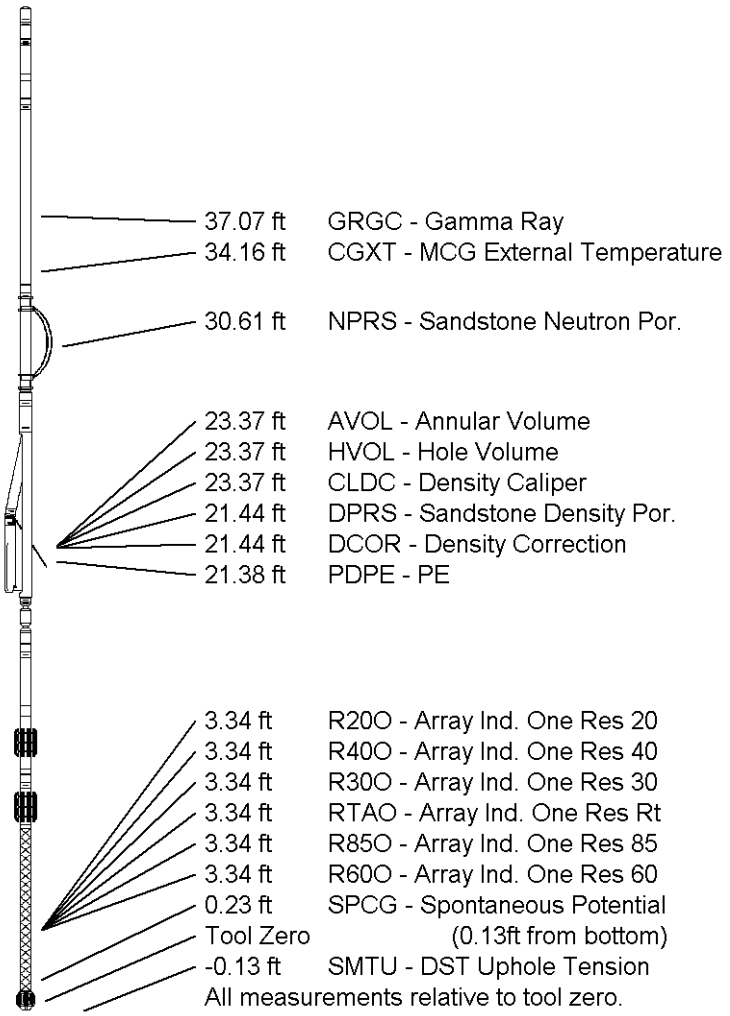
Compact Density/Caliper
MPD-B 104 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D Compact Knuckle Joint
SKJ-D 34 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-A.A 102 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.A 268 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 46.67 ft Weight: 368.2 lb



COMPANY	WEXPRO COMPANY
WELL	MUSSER 31
FIELD	POWDER WASH
PROVINCE/COUNTY	MOFFAT
COUNTRY/STATE	USA/COLORADO

Elevation Kelly Bushing	6630.00	feet	First Reading	6217.00	feet
Elevation Drill Floor	6630.00	feet	Depth Driller	9095.00	feet
Elevation Ground Level	6601.00	feet	Depth Logger	6220.00	feet

Weatherford®

ARRAY INDUCTION LOGS

40 Years of Wireline 1970 2010