



Weatherford[®]

**CML MESSENGER SHUTTLE
ARRAY INDUCTION
LOG**

COMPANY SANDRIDGE ENERGY
WELL ARIANA 3419 1-7H
FIELD COMANCHE PROSPECT
PROVINCE/COUNTY COMANCHE
COUNTRY/STATE USA / KANSAS
LOCATION SHL: 210' FSL & 685' FWL SEC 6
BHL: 330' FNL & 660' FWL SEC 7

SEC	TWP	RGE	Other Services
6	34S	19W	MDN/MPPD
API Number 15-033-21702-01		Permit Number	
Permanent Datum G.L., Elevation 1809 feet			
Log Measured From DF			
Drilling Measured From D.F. @ 21 FEET			
Date	19-APR-2013		
Run Number	ONE		
Service Order	3539412		
Depth Driller	10160.00 feet		
Depth Logger	10160.00 feet		
First Reading	10152.00 feet		
Last Reading	4000.00 feet		
Casing Driller	5772.00 feet		
Casing Logger	5772.00 inches		
Bit Size	6.125		
Hole Fluid Type	WATER		
Density / Viscosity	8.80 lb/USg	31.00 lb/USg	CP
PH / Fluid Loss	10.00	10.00	
Sample Source	FLOWLINE		
Rm @ Measured Temp	1.50 @ 69.0	ohm-m	
Rmf @ Measured Temp	1.20 @ 69.0	ohm-m	
Rmc @ Measured Temp	1.80 @ 69.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.78 @133.0	ohm-m	
Time Since Circulation	0 HOURS		
Max Recorded Temp	133.00	deg F	
Equipment / Base	18006	OKC	
Recorded By	D. ROWELL		
Witnessed By	M. RODEN		
AFE	DC12767		

Elevations:	feet
KB	1830.00
DF	1830.00
GL	1809.00

BOREHOLE RECORD

Last Edited: 19-APR-2013 23:13

Bit Size inches	Depth From feet	Depth To feet
8.750	0.00	5772.00
6.125	5772.00	10160.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
INTERMED	7.000	0.00	5772.00	29.00

REMARKS

LOGGED WITH WLS VER 13.04.8492 SOFTWARE

WELL LOGGED USING MESSENGER METHOD OF DEPLOYMENT, AND MEMORY LOGGING SYSTEM

HARDWARE: MAI: ISA STANDOFF BELOW
MPD: 4"PROFILE PLATE, MIS-A SINGLE SPRING DECENTRALIZER BELOW
MDN: MISD DOUBLE SPRING DECENTRALIZER RAN ABOVE

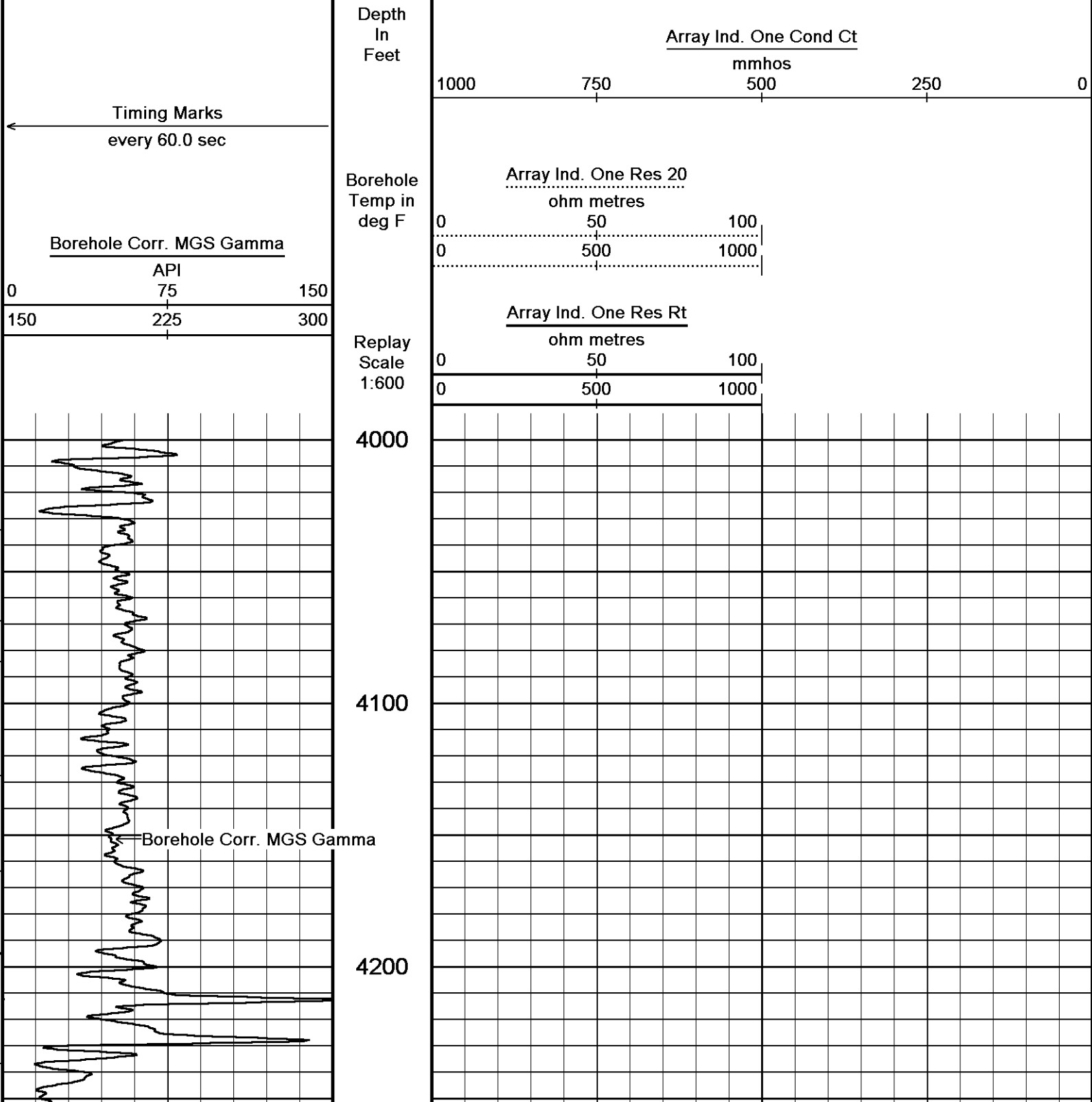
2.71 G/CC DENSITY MATRIX USED TOCALCULATE POROSITY
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER REQUEST

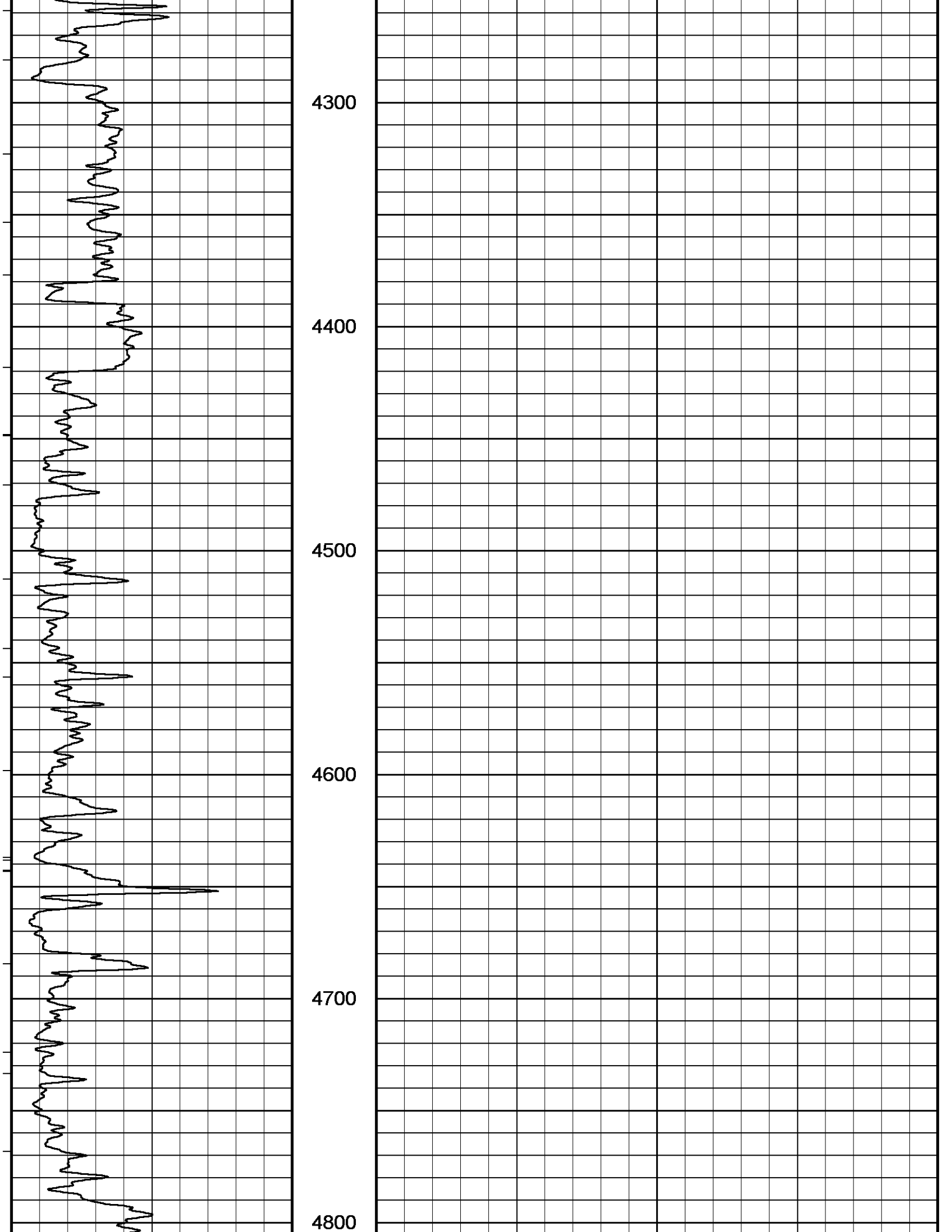
DRILL PIPE DEPTH DURING DEPLOYMENT 10066
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 10152

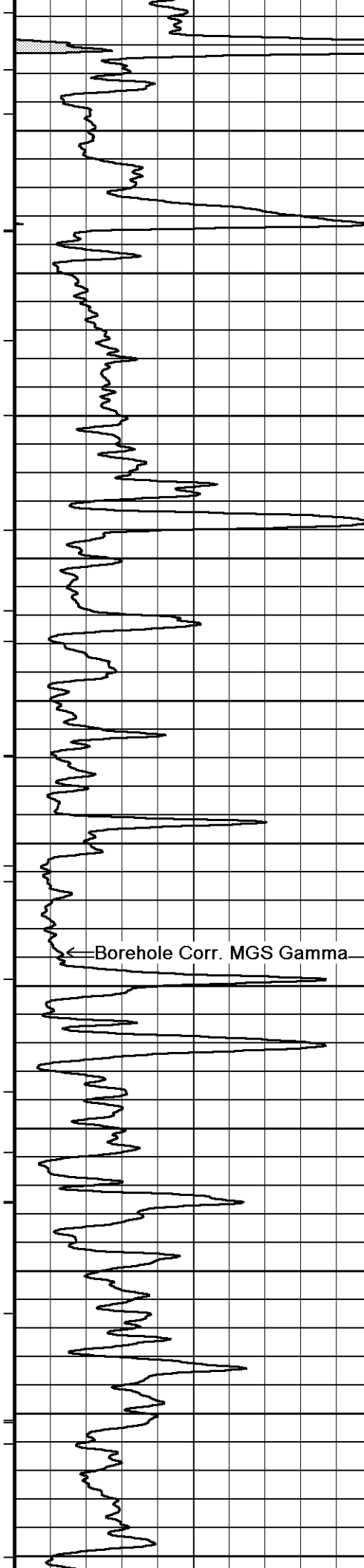
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 21-APR-2013 11:42
 Filename: C:\Minimus\Data\New Folder\32801 RTAP.dta Recorded on 21-APR-2013 02:17
 System Versions: Processed with 13.04.8492 Plotted with 13.04.8492







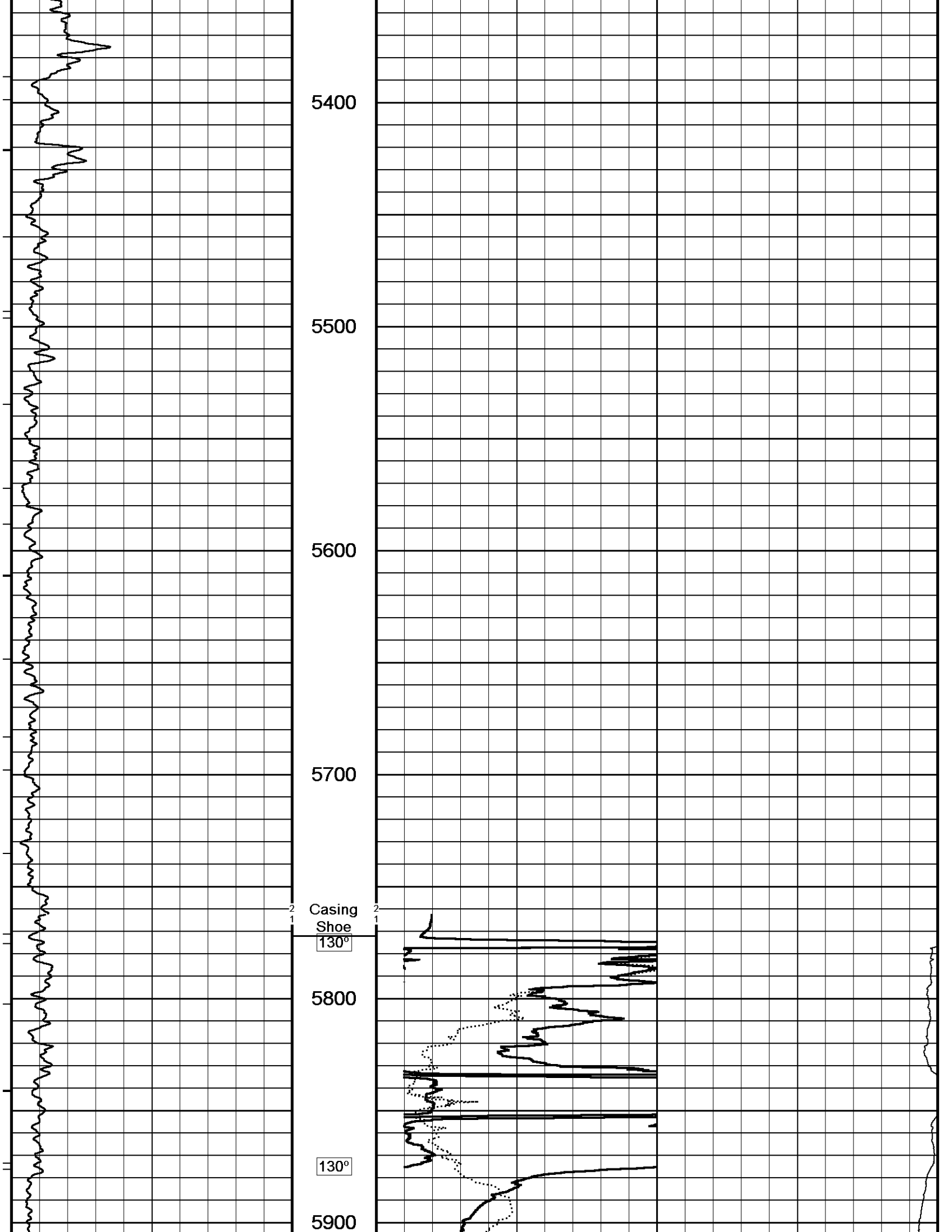
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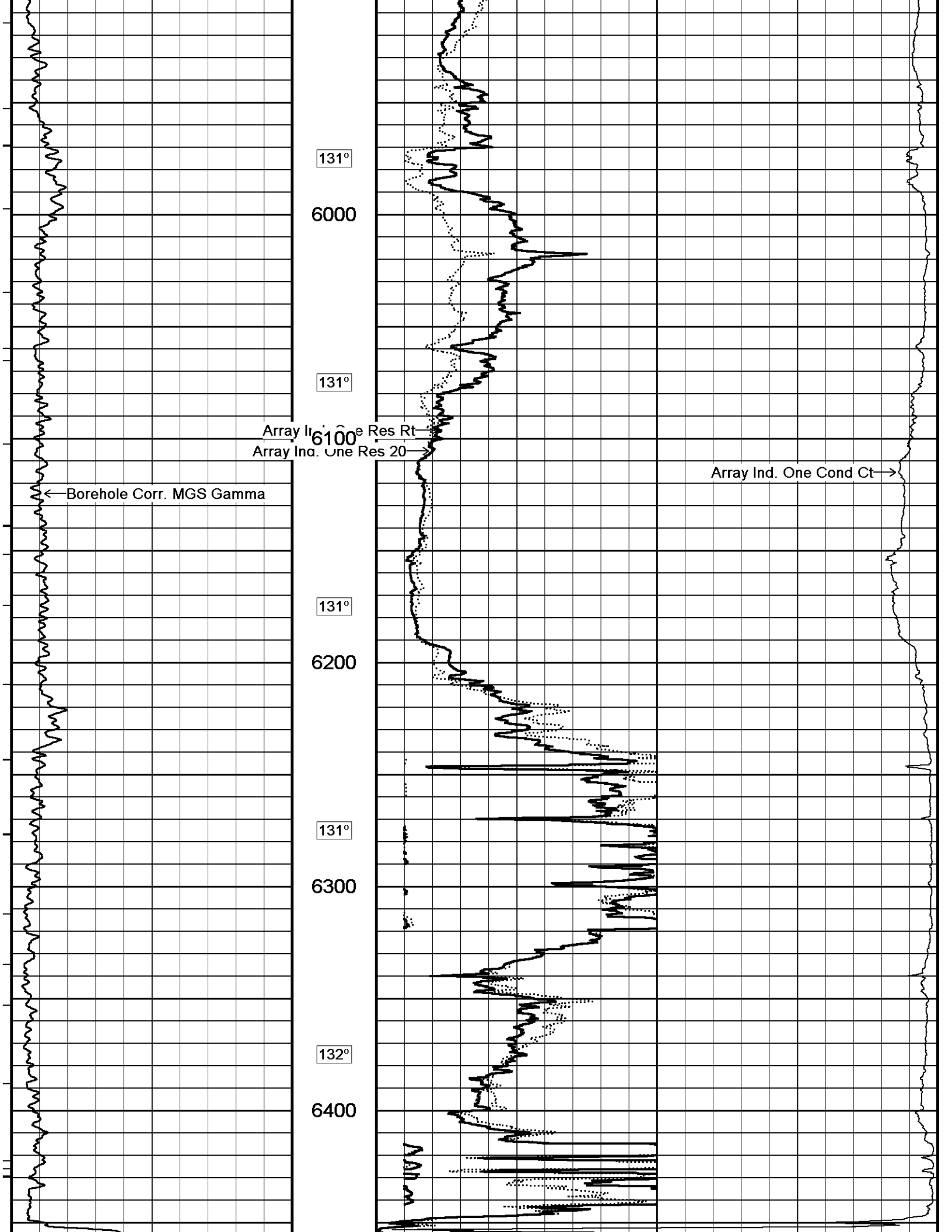
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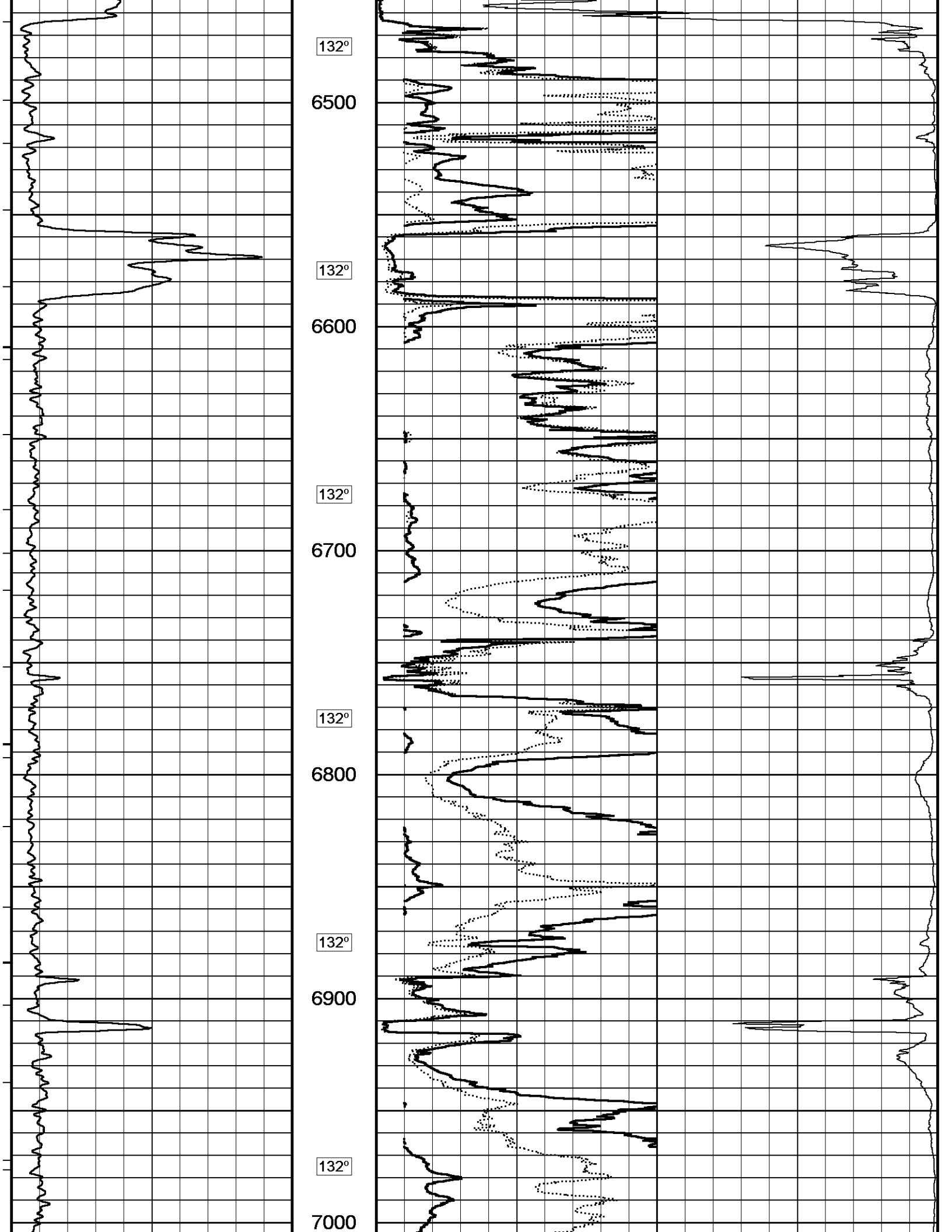
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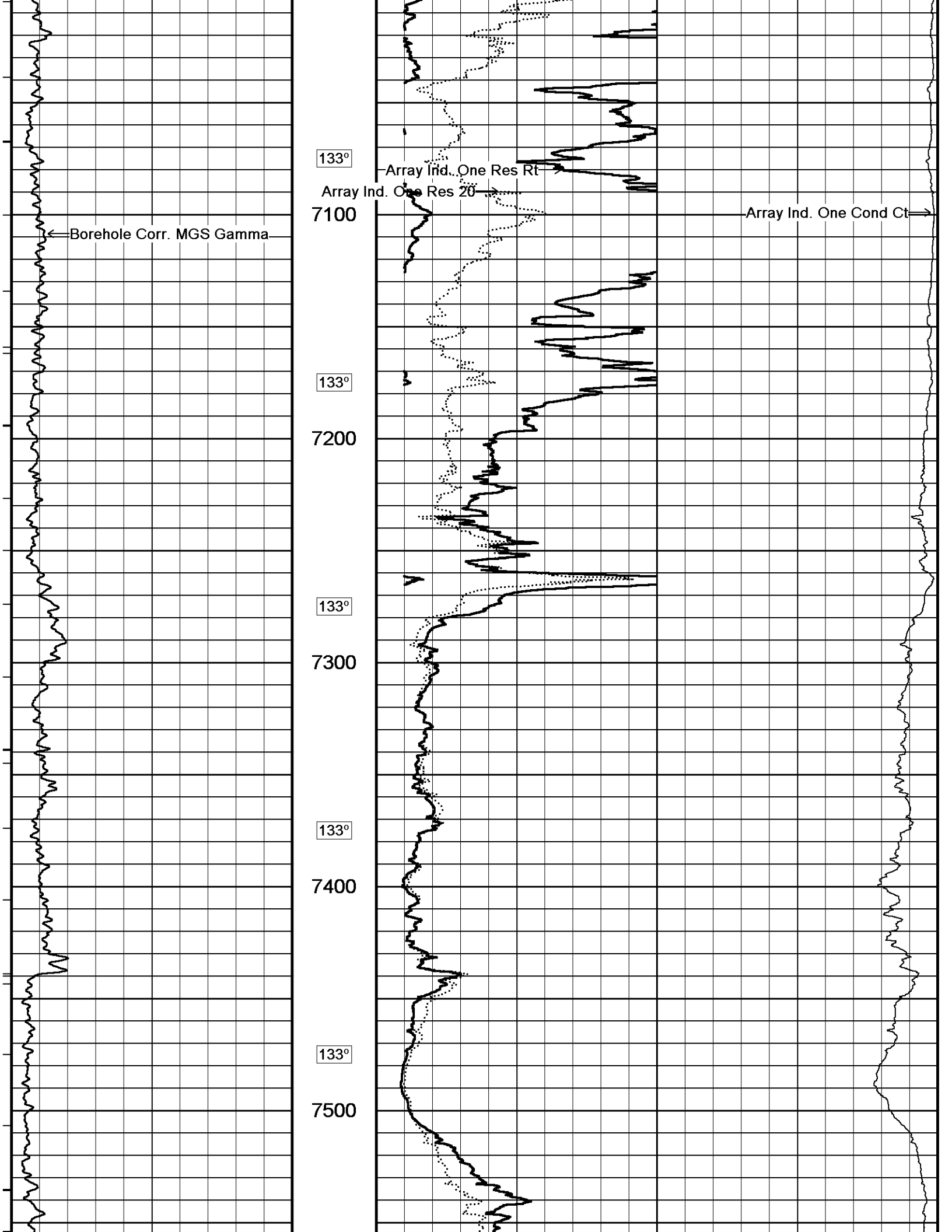
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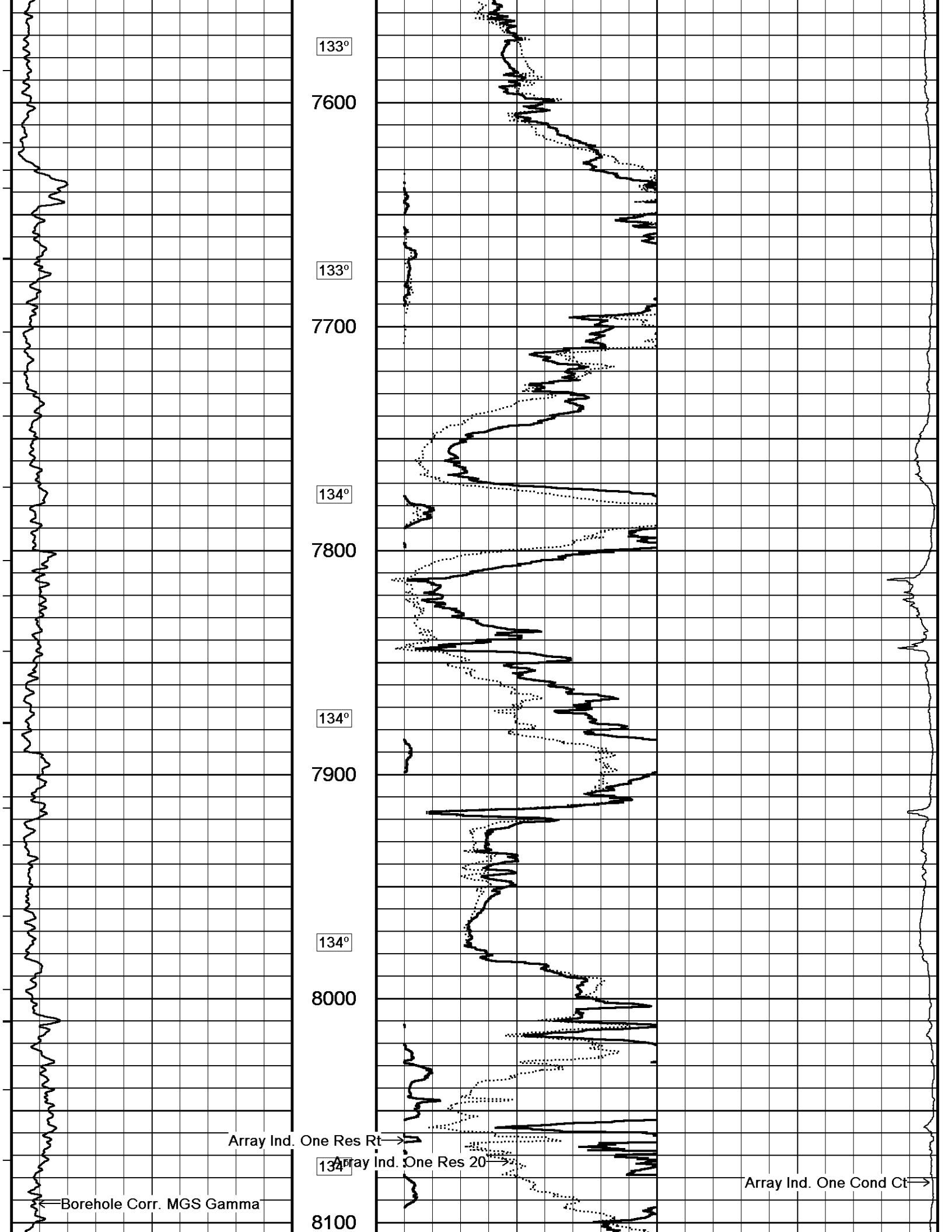
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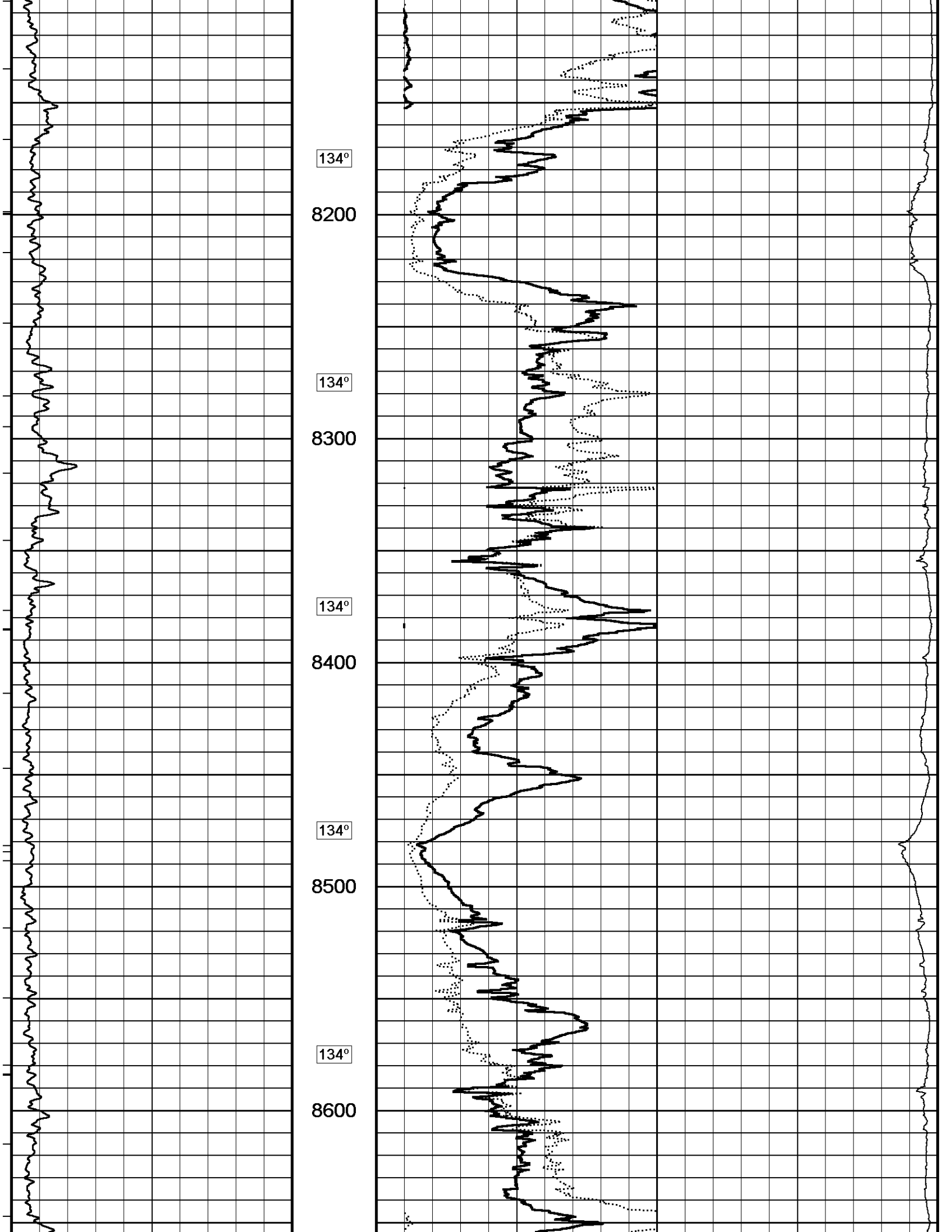


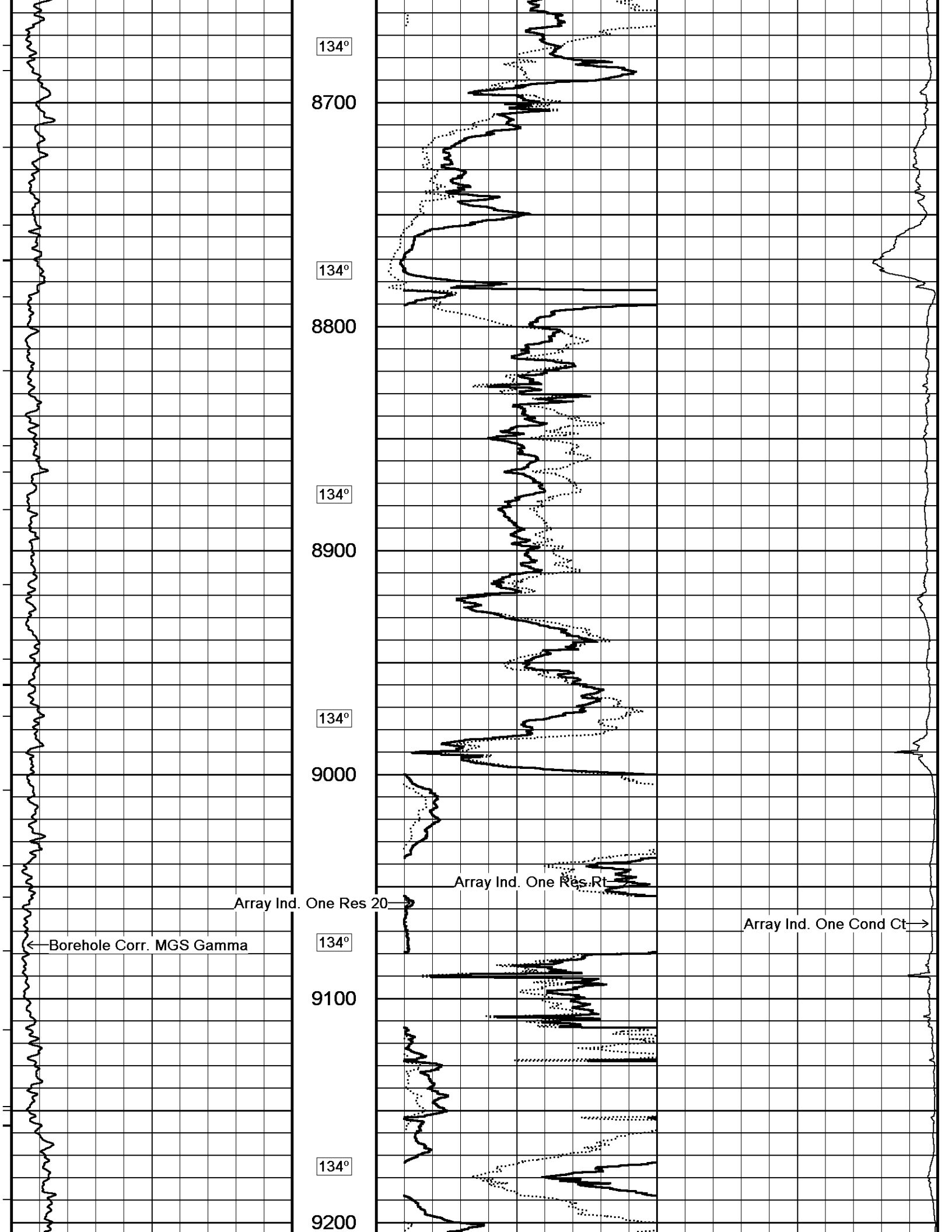


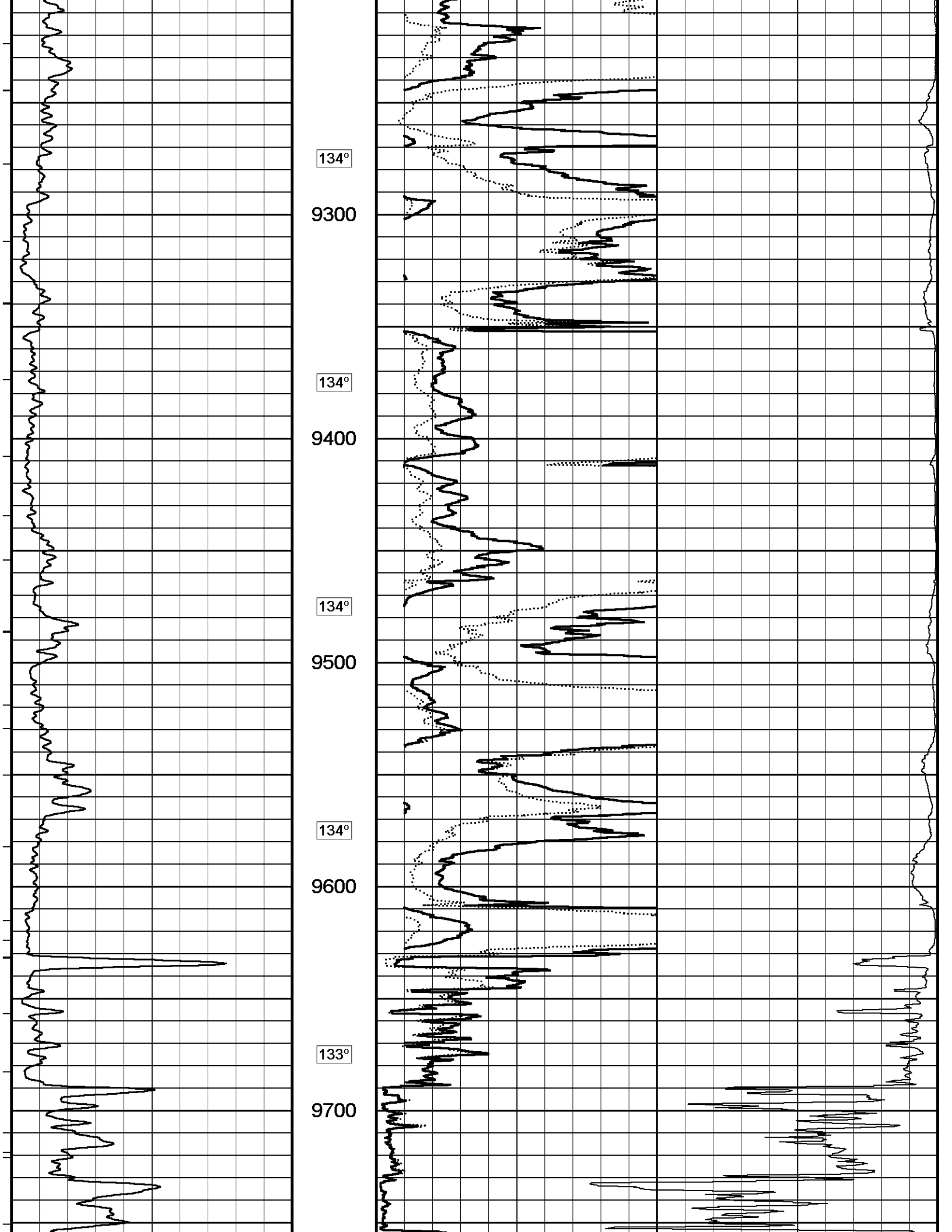


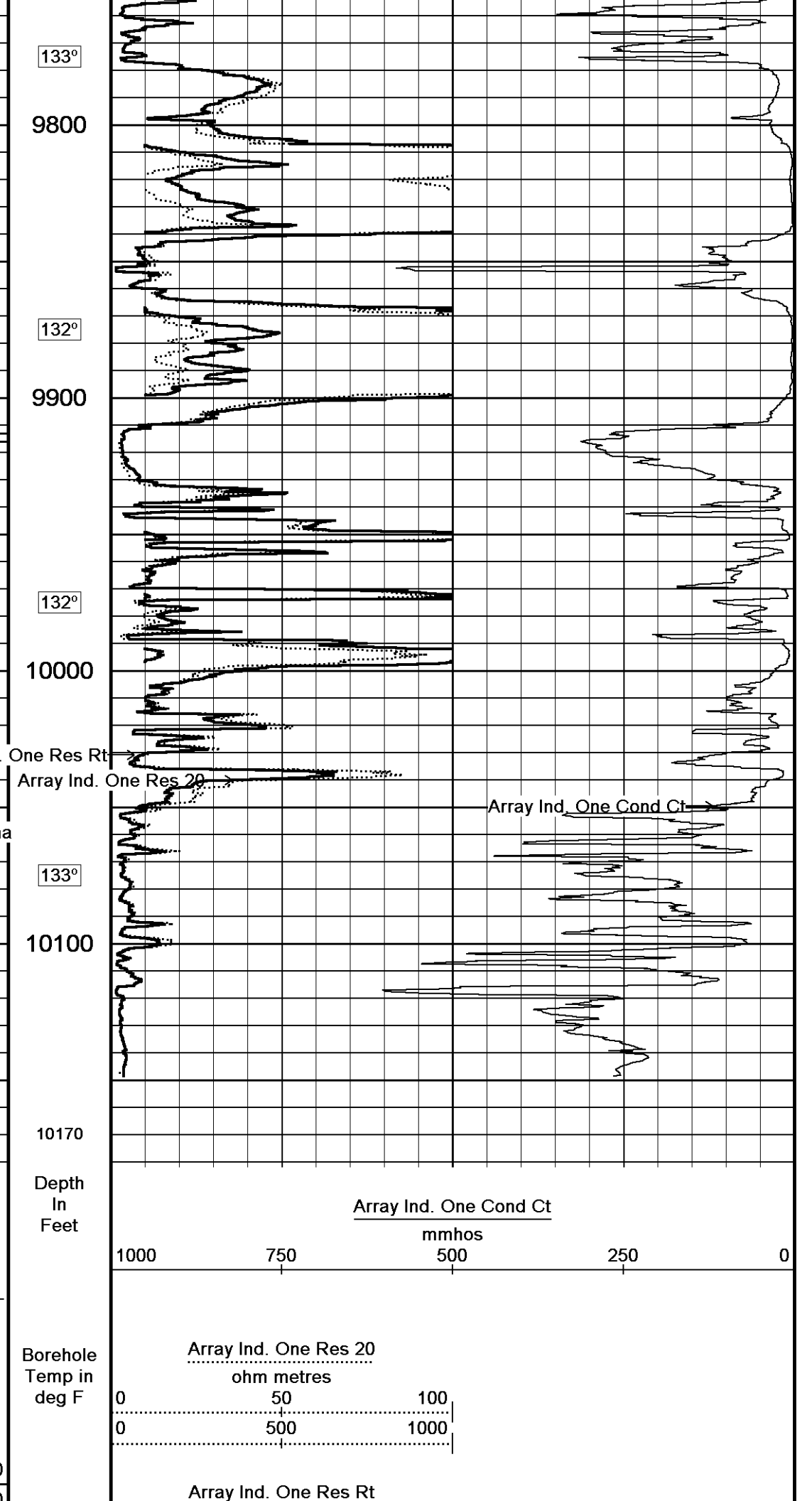
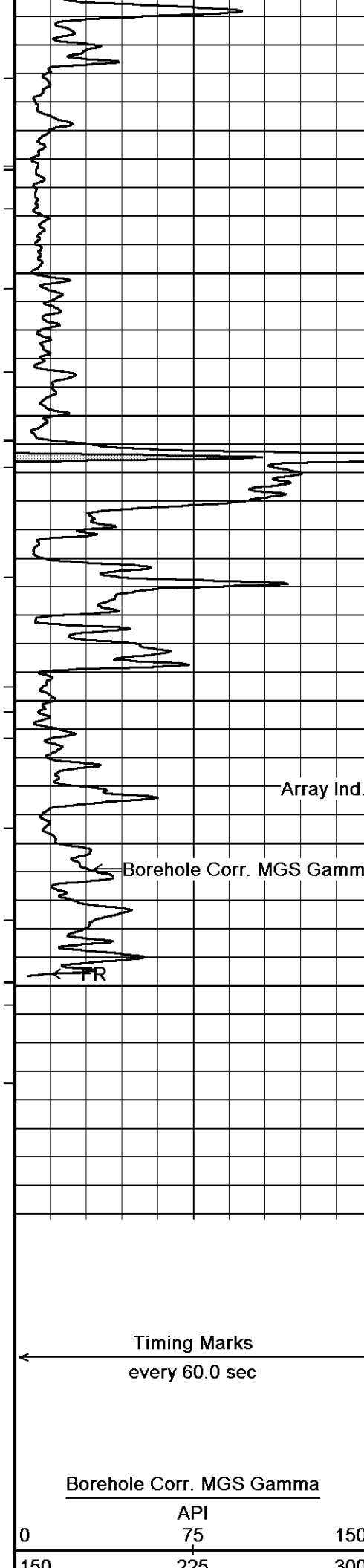


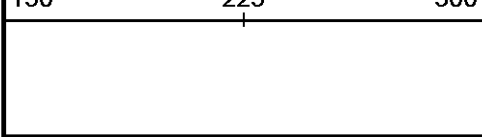




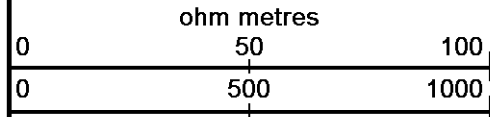








Replay Scale
1:600

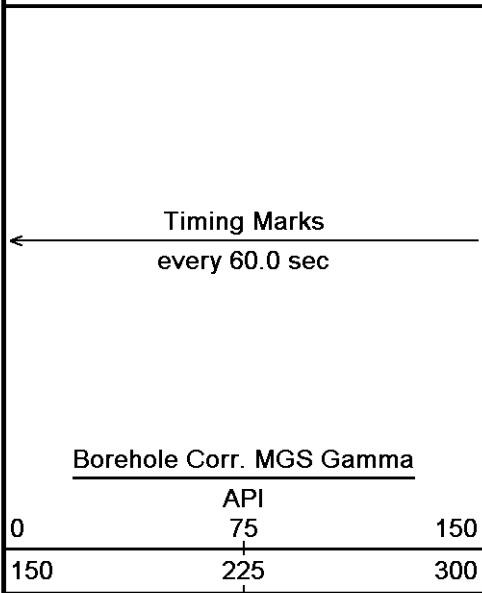


Depth Based Data - Maximum Sampling Increment 10.0cm
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 Recorded on 21-APR-2013 02:17
 System Versions: Processed with 13.04.8492 Plotted with 13.04.8492

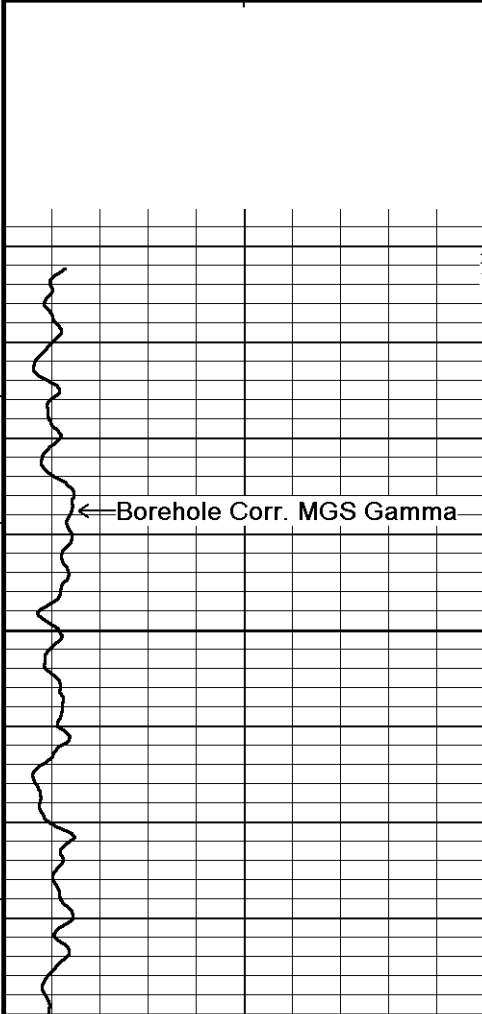
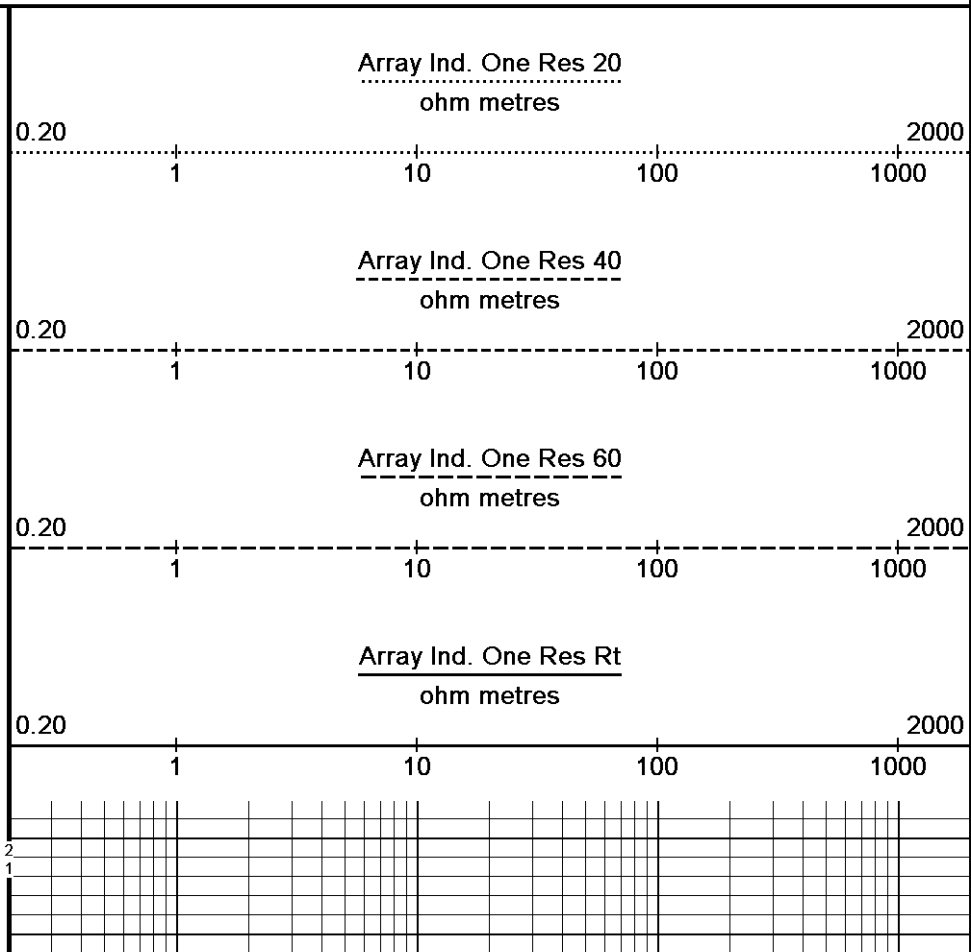
↑ 2 INCH MAIN LOG DSC ↑

↓ 5 INCH MAIN LOG DSC ↓

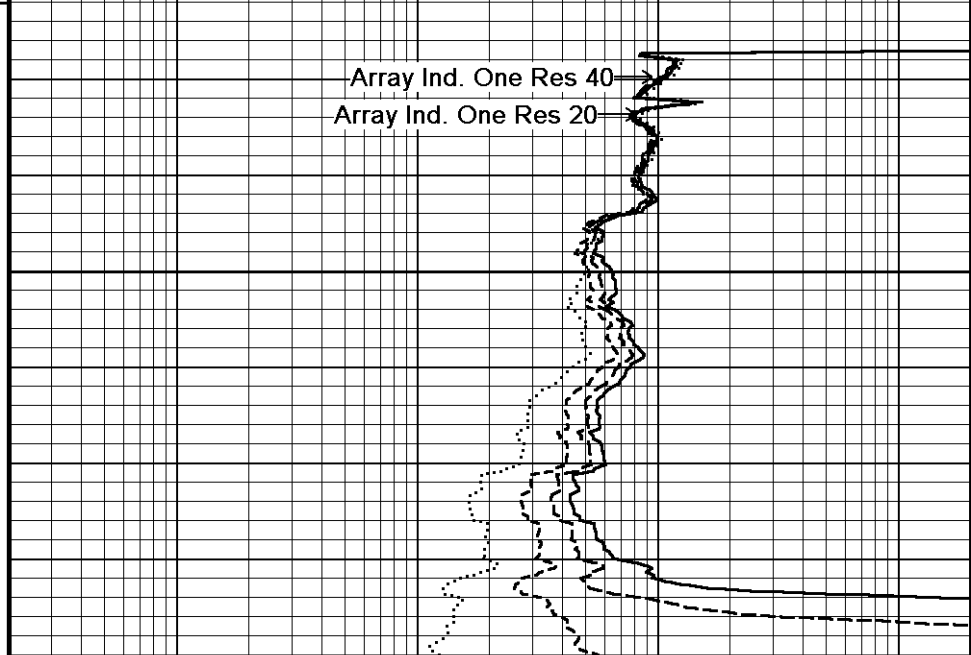
Depth Based Data - Maximum Sampling Increment 10.0cm
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 Filename: C:\Minimus\Data\New Folder\32801 RTAP.dta
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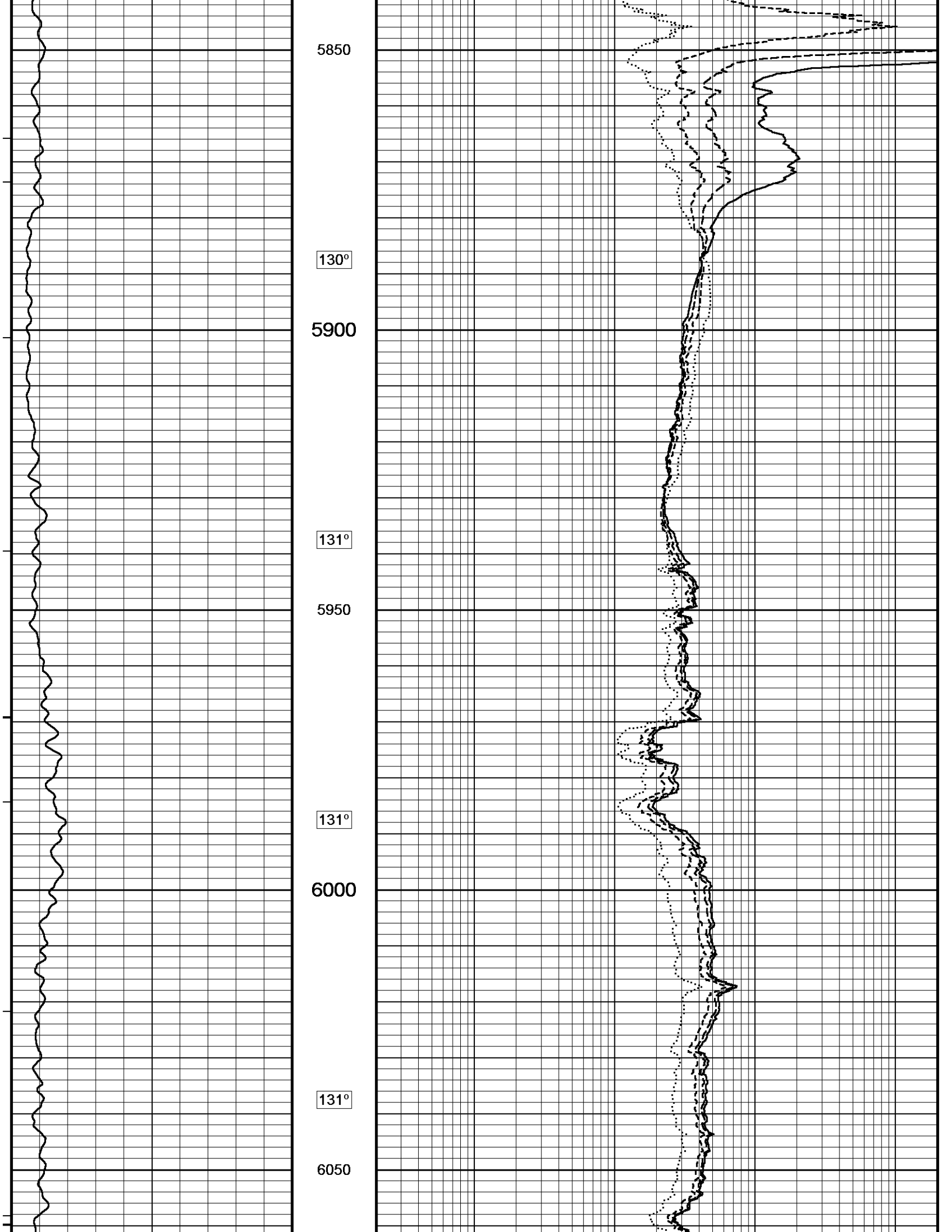


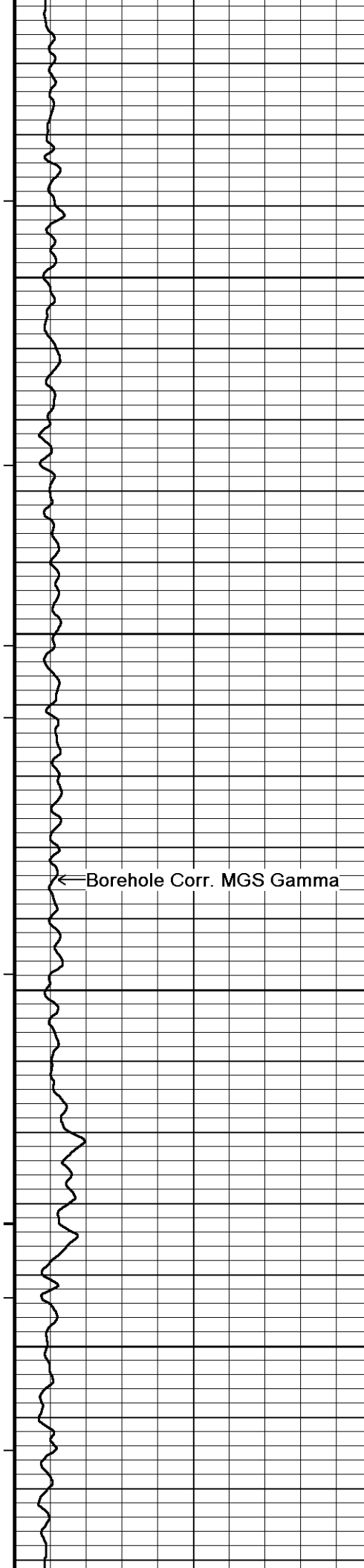
Depth In Feet
 Borehole Temp in deg F
 Replay Scale 1:240
 Casing Shoe



5758
 5800
 130°







131°

6100

131°

6150

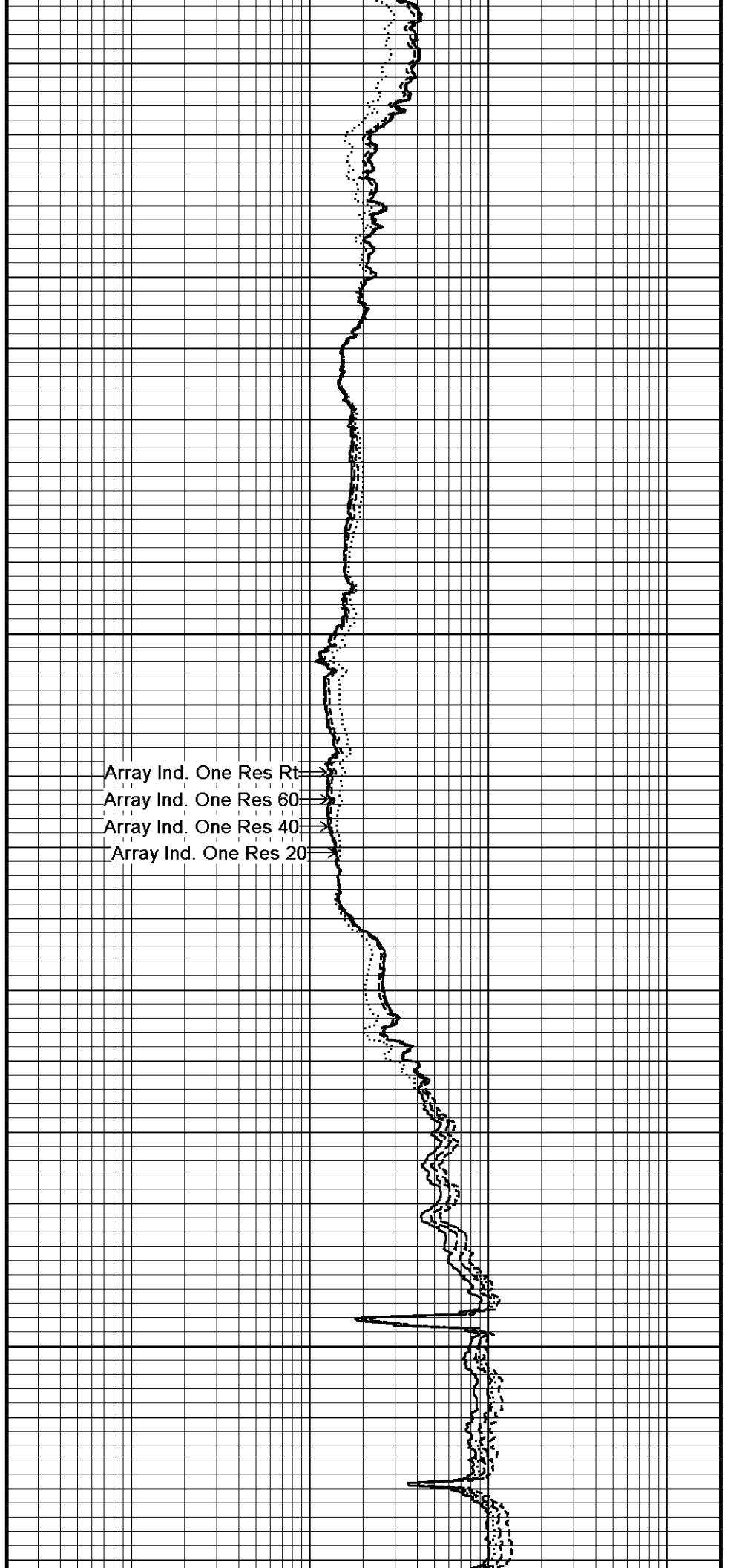
Array Ind. One Res Rt →
Array Ind. One Res 60 →
Array Ind. One Res 40 →
Array Ind. One Res 20 →

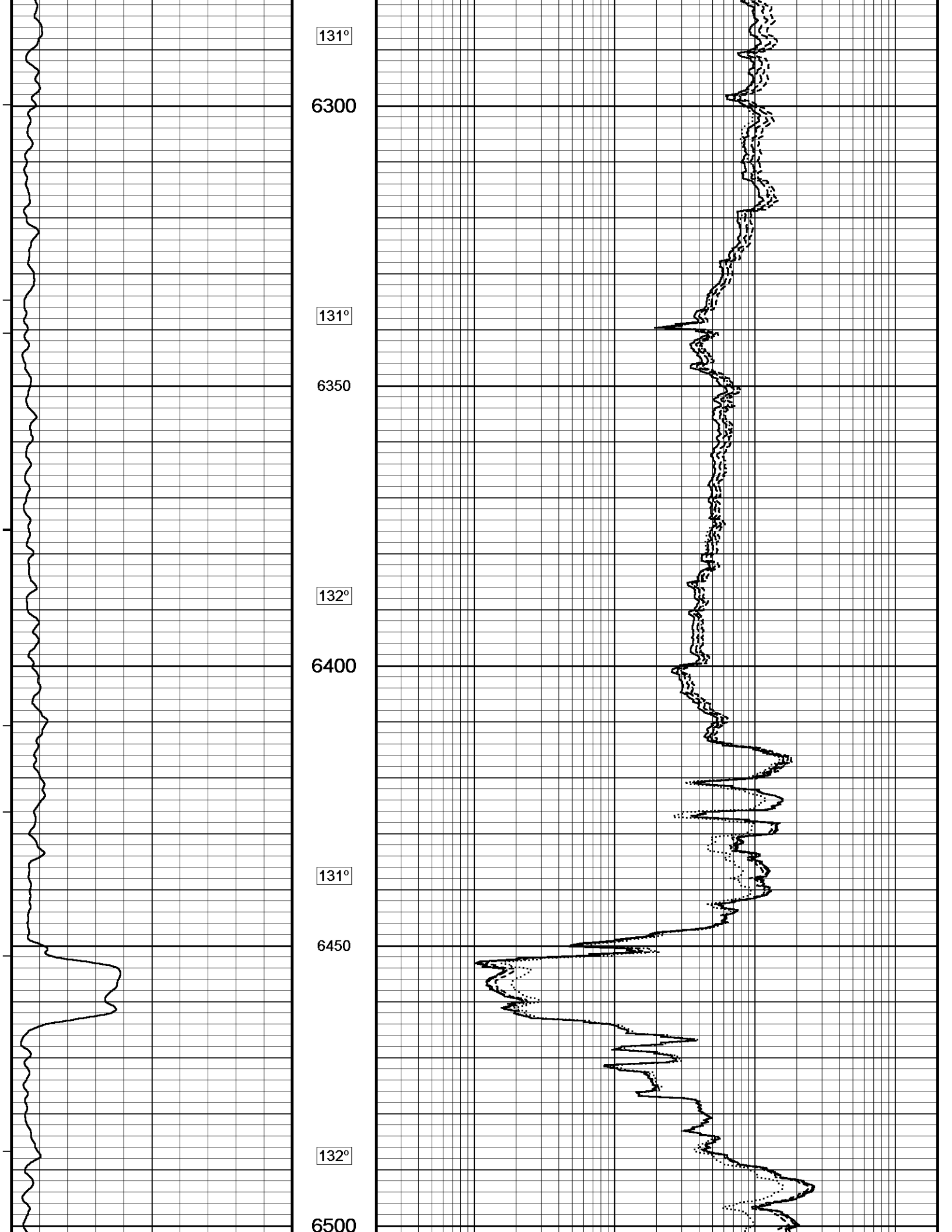
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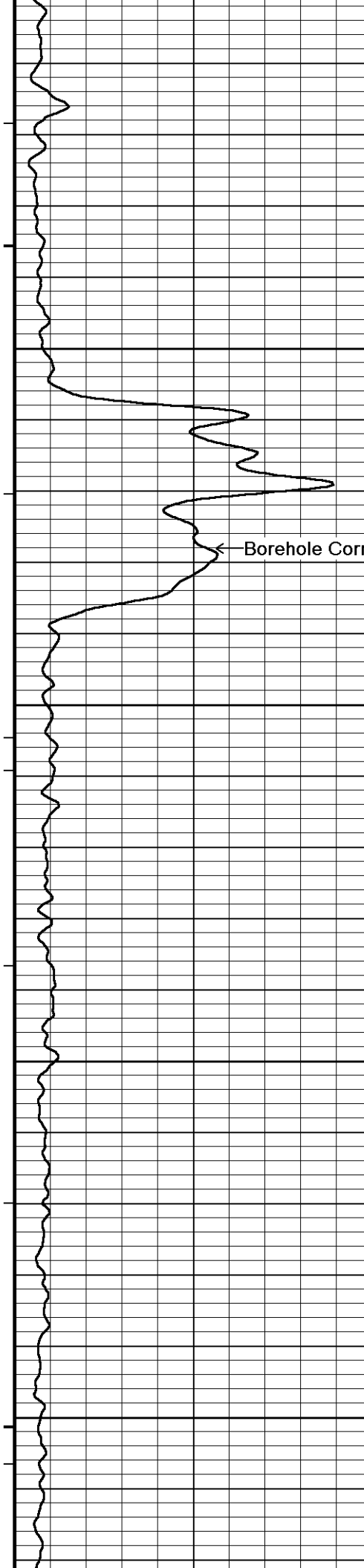
6200

131°

6250







132°

6550

Array Ind. One Res Rt.
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 20

← Borehole Corr. MGS Gamma

132°

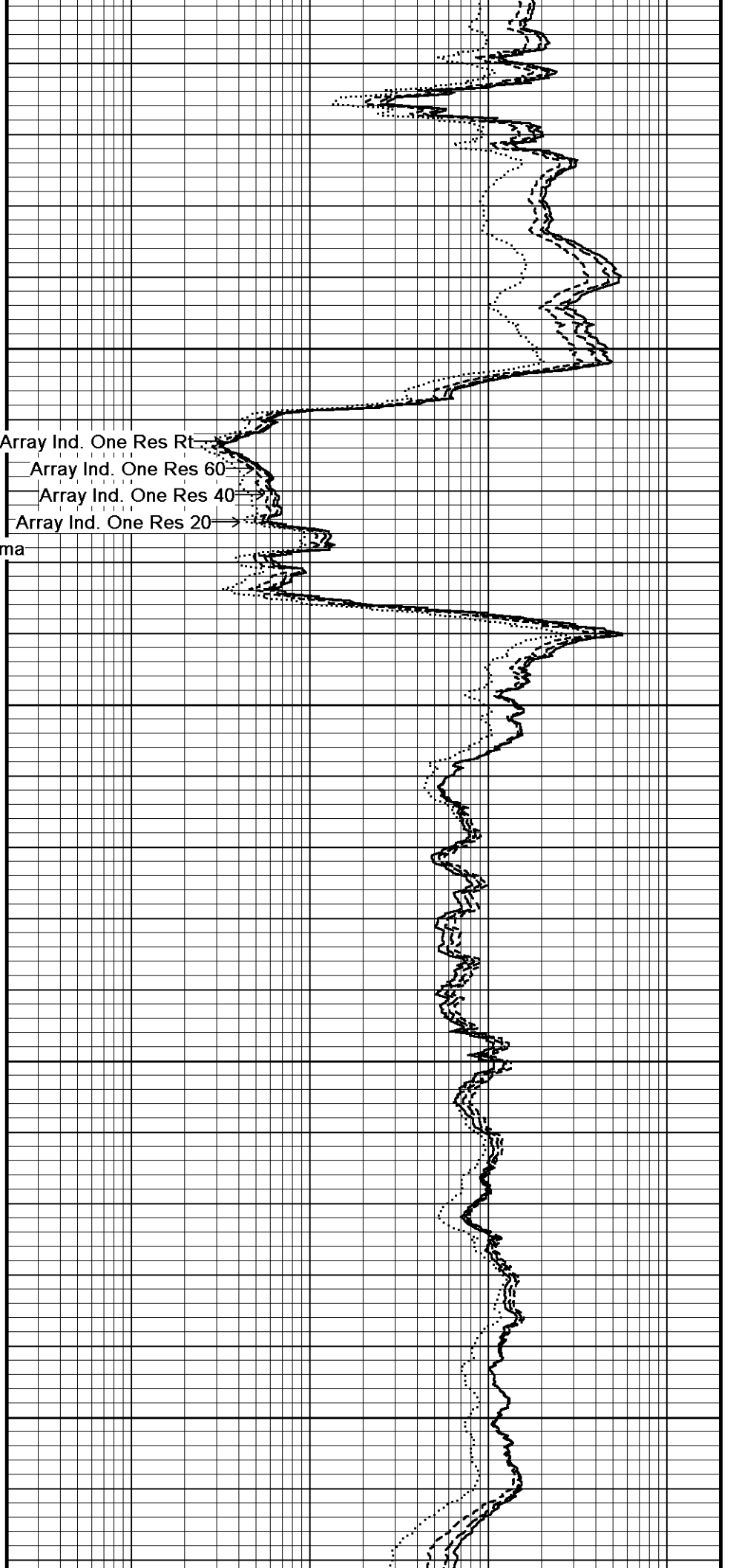
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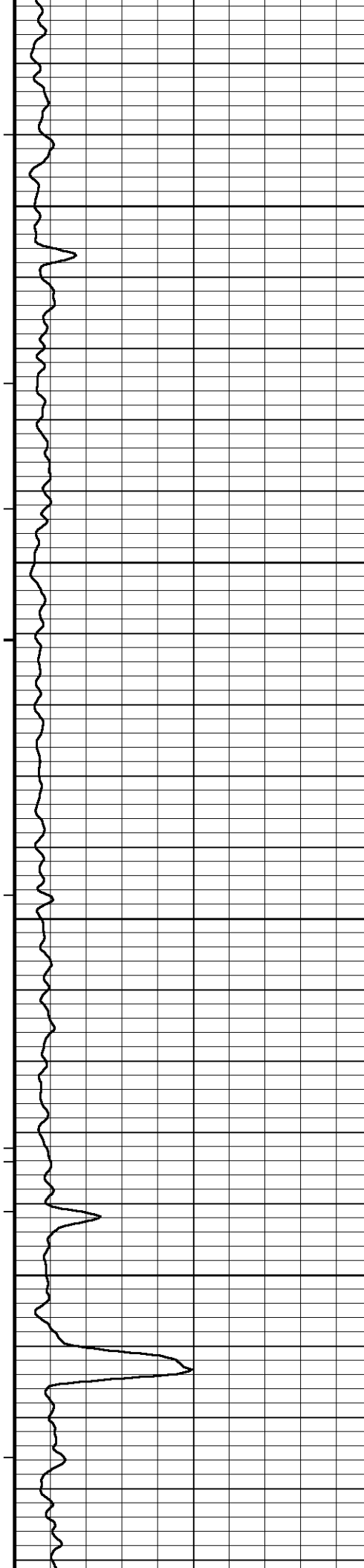
132°

6650

132°

6700





132°

6750

132°

6800

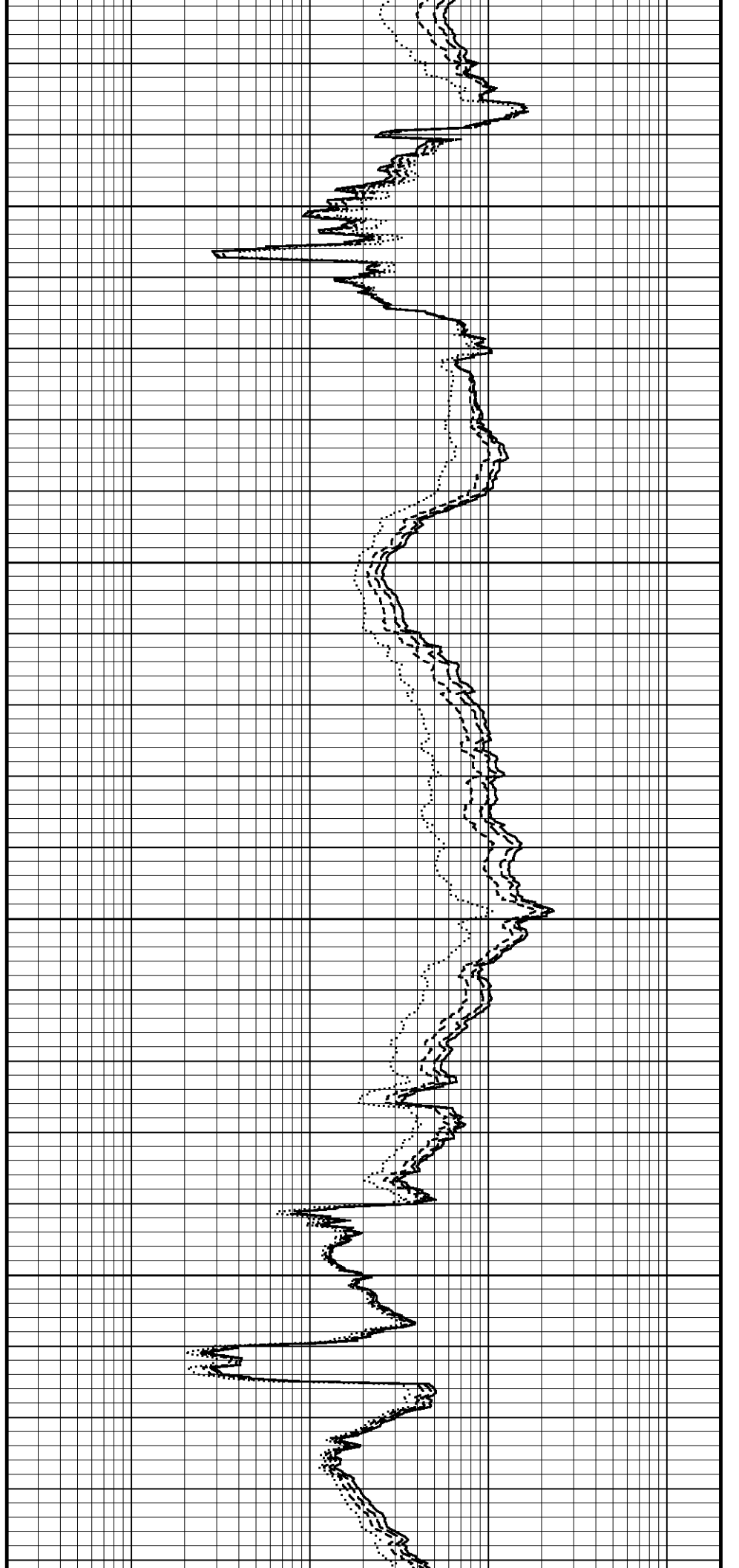
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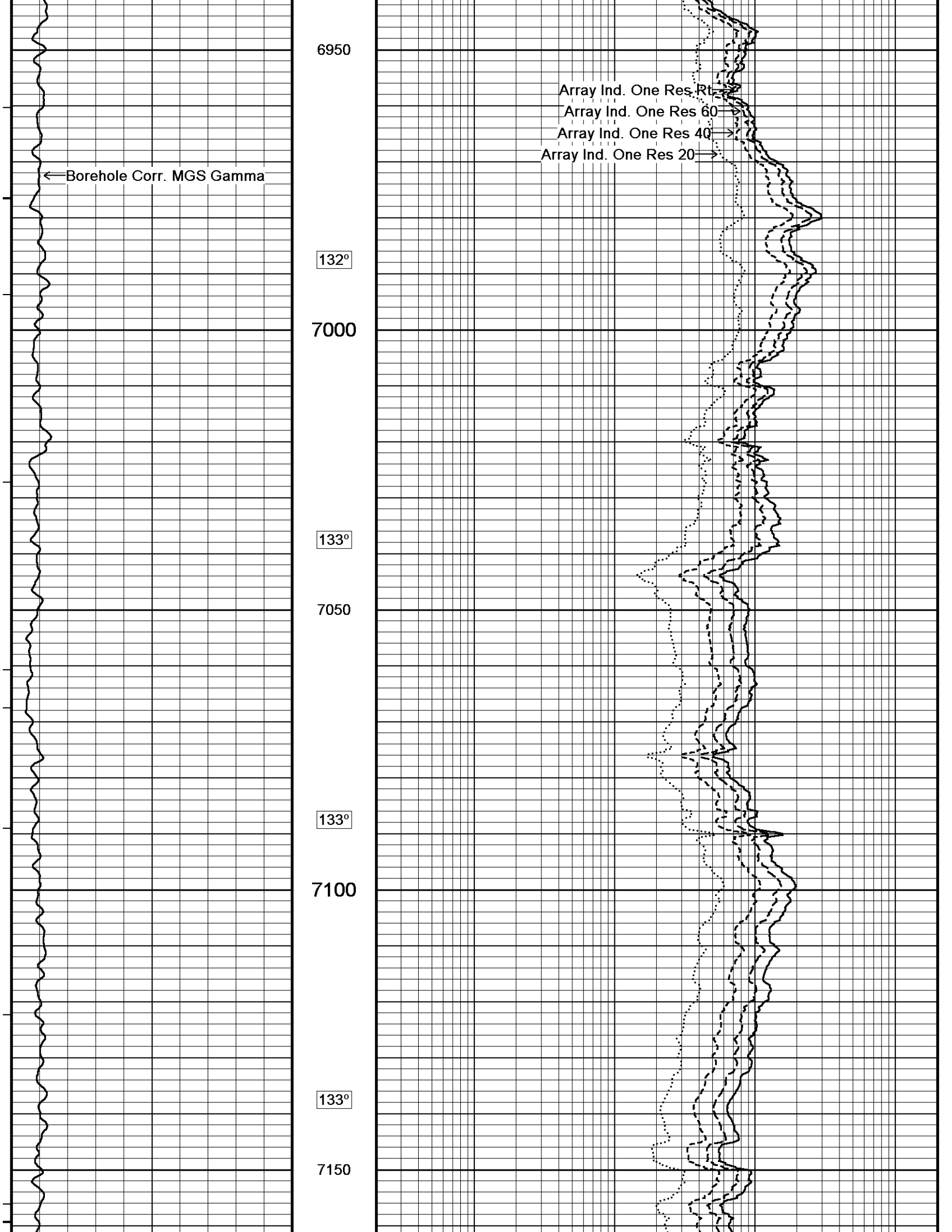
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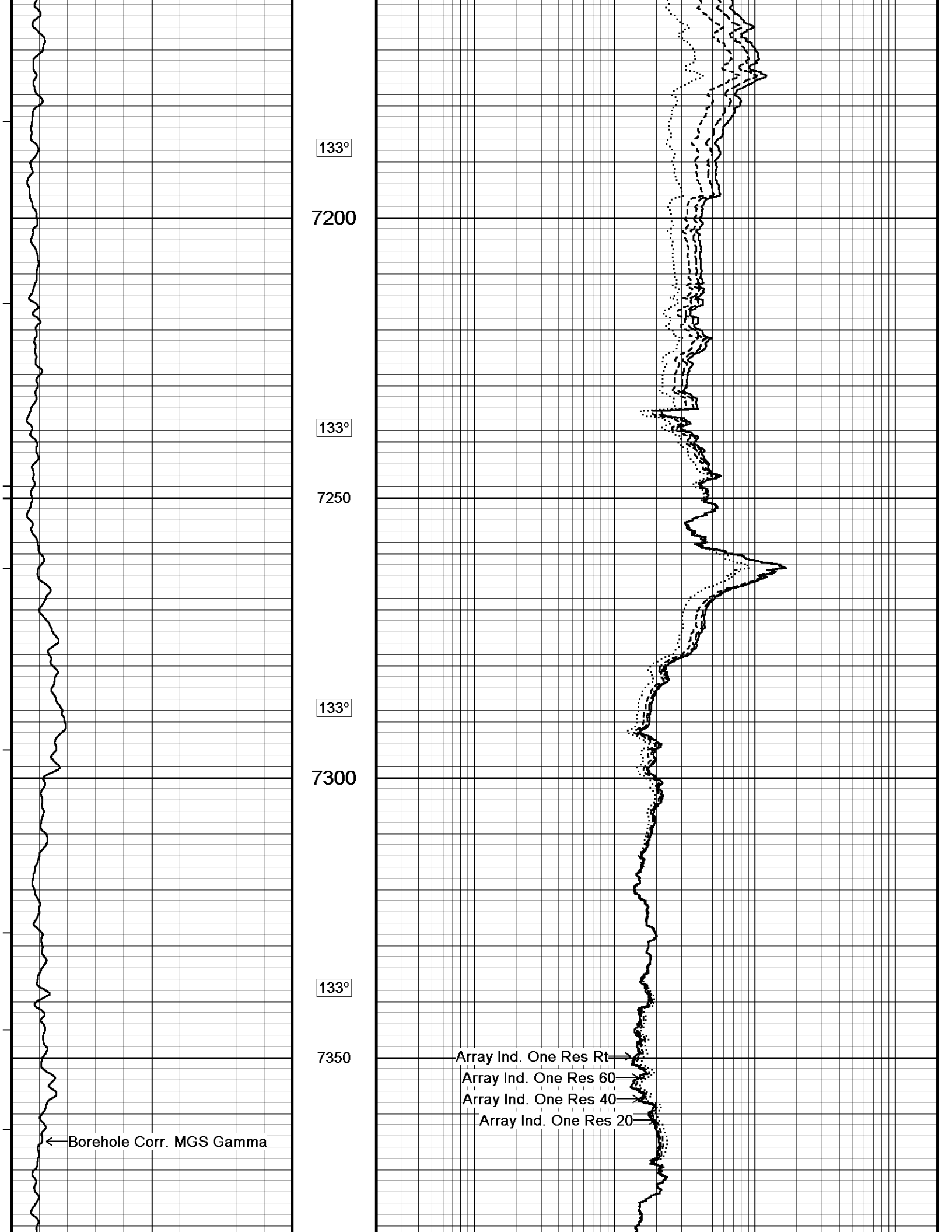
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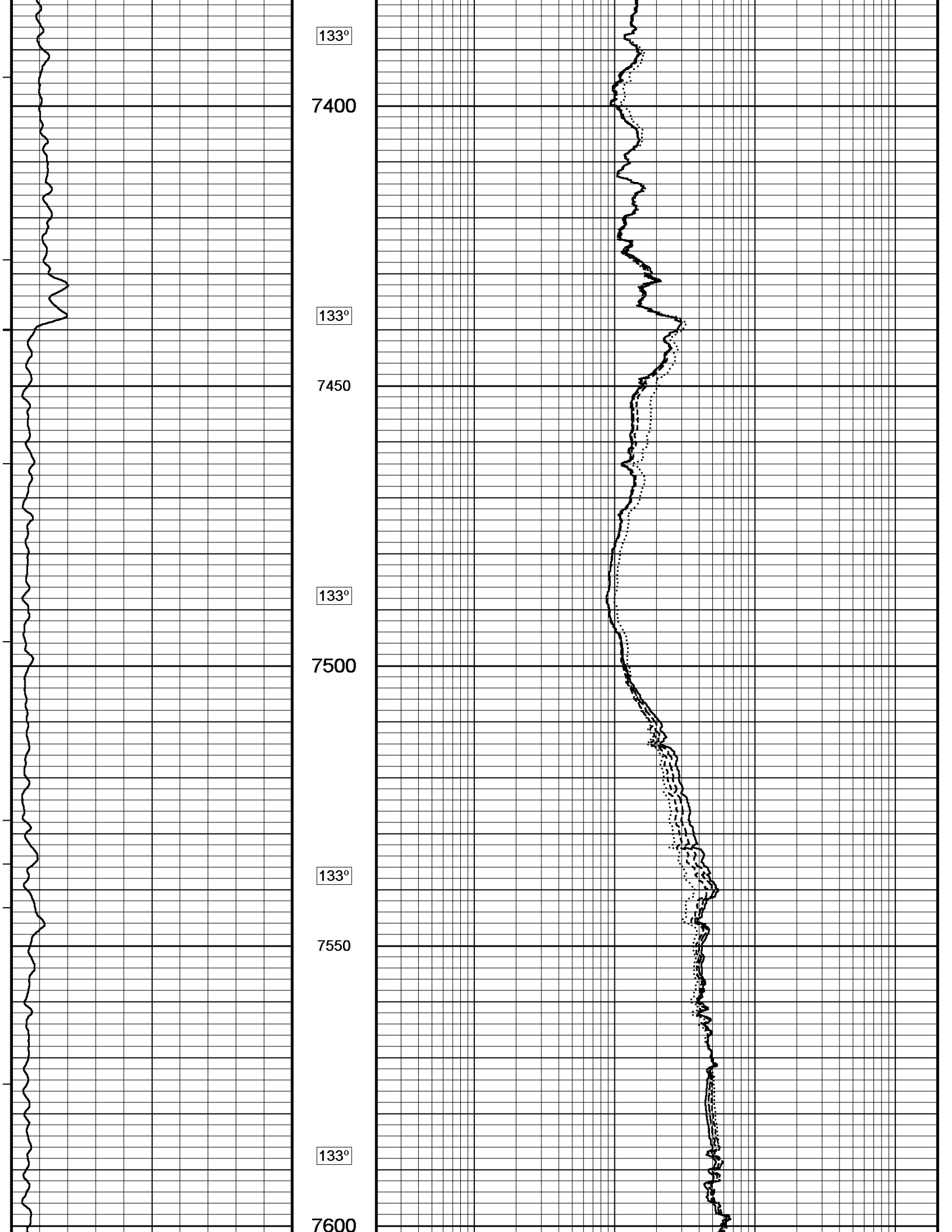
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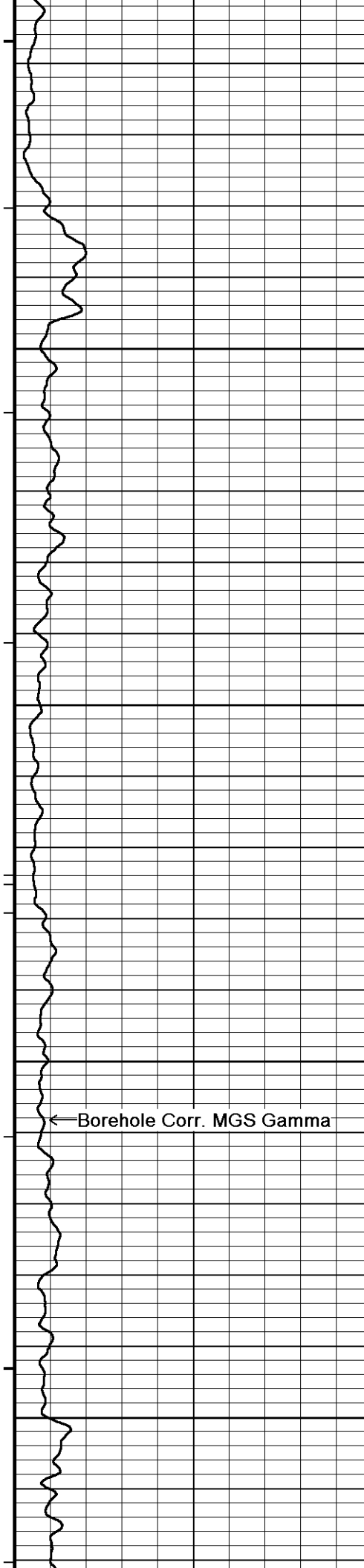
132°











133°

7650

133°

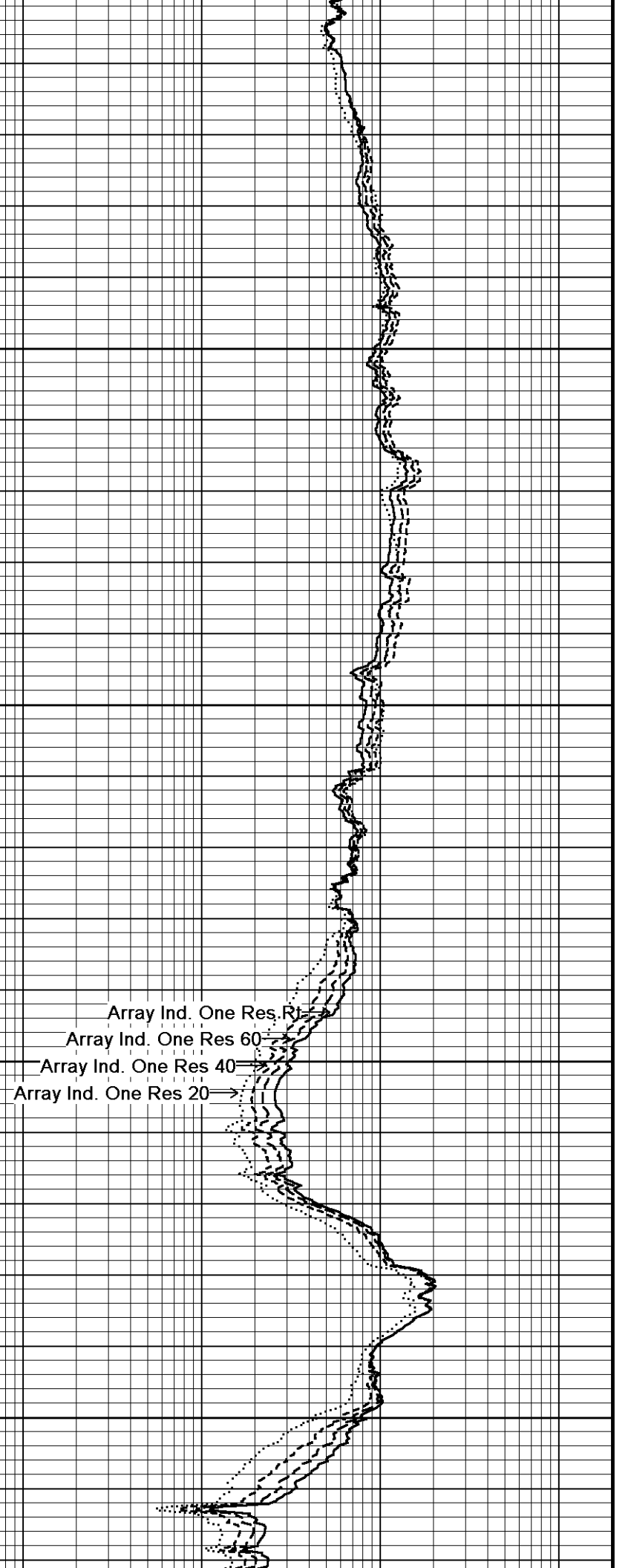
7700

133°

7750

134°

7800



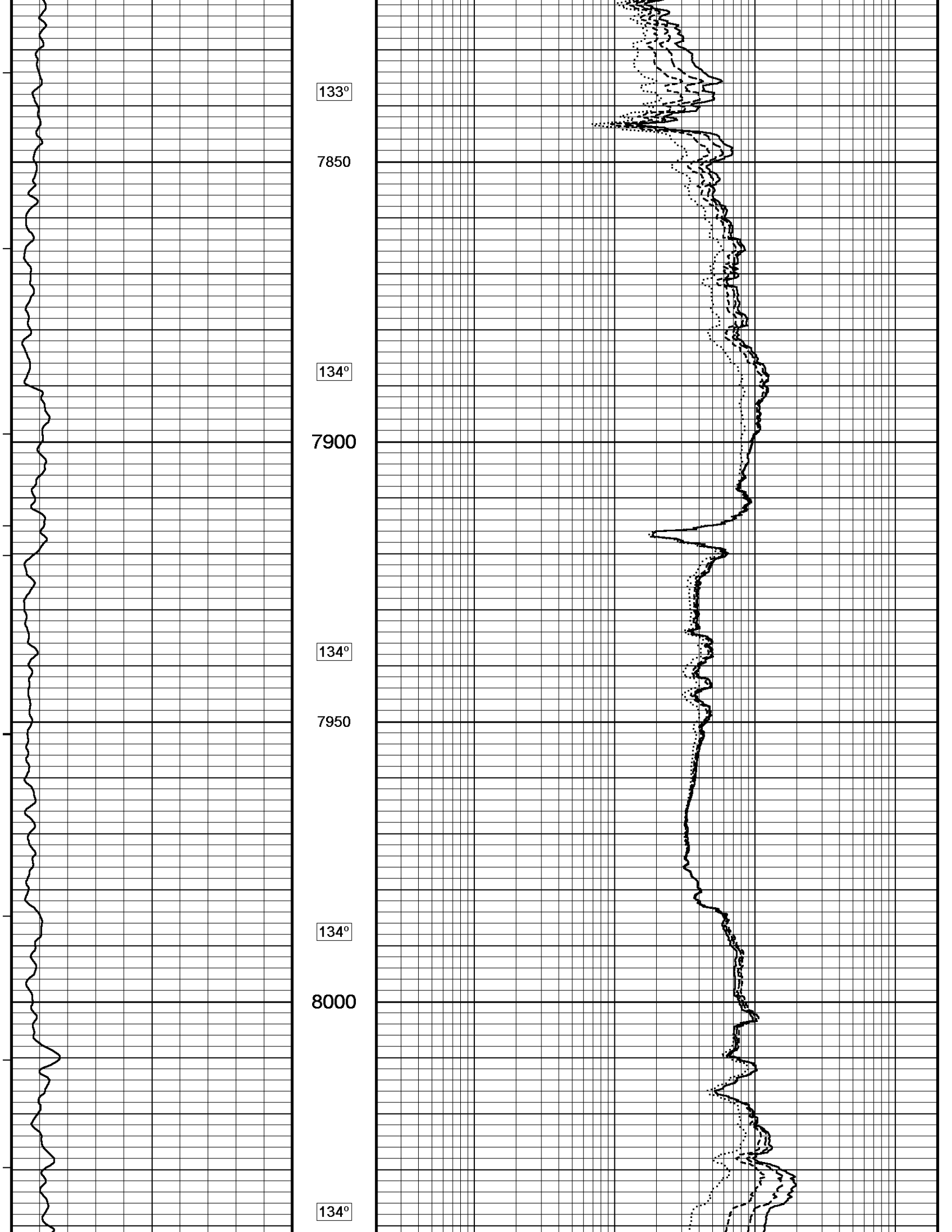
Array Ind. One Res. R

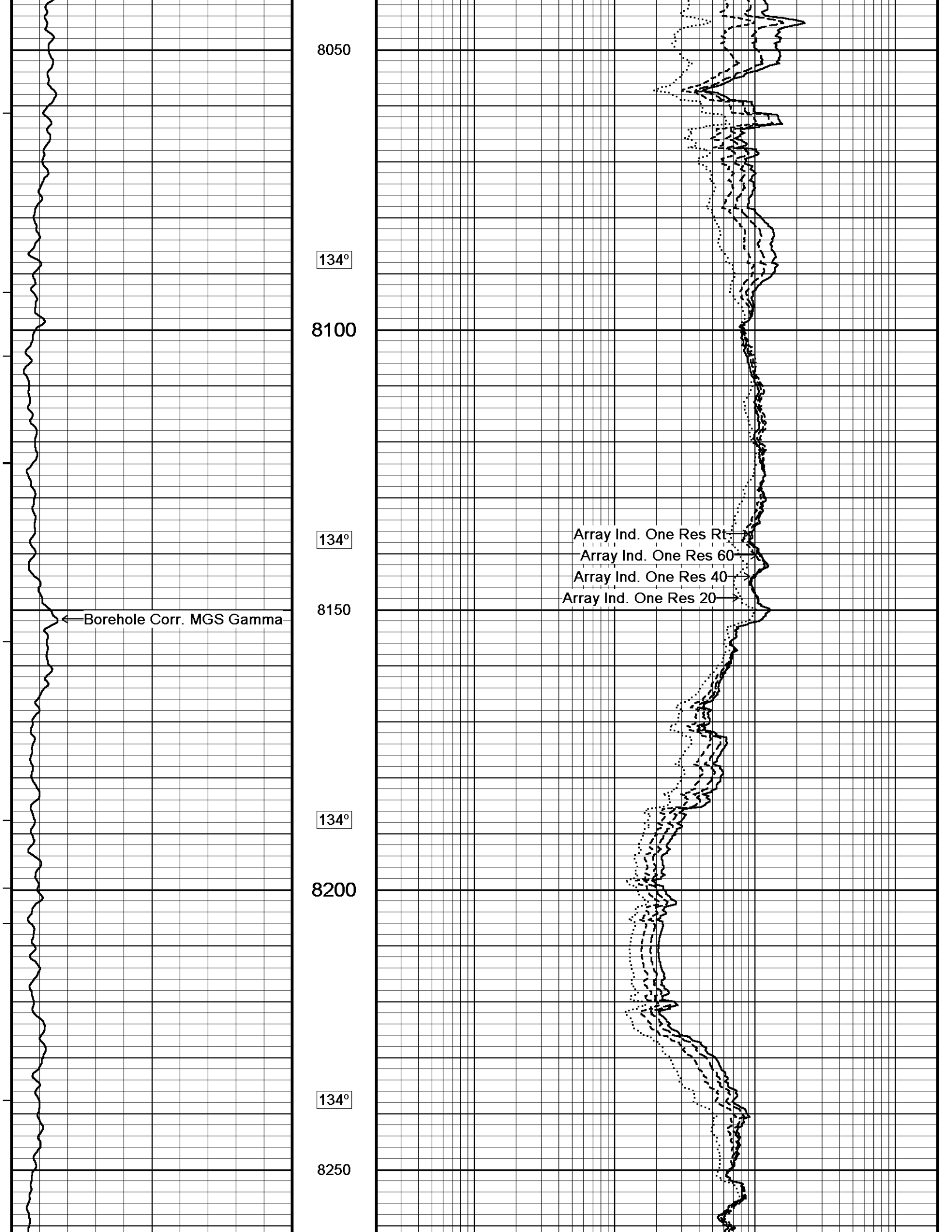
Array Ind. One Res 60

Array Ind. One Res 40

Array Ind. One Res 20

← Borehole Corr. MGS Gamma





8050

134°

8100

134°

8150

← Borehole Corr. MGS Gamma

Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

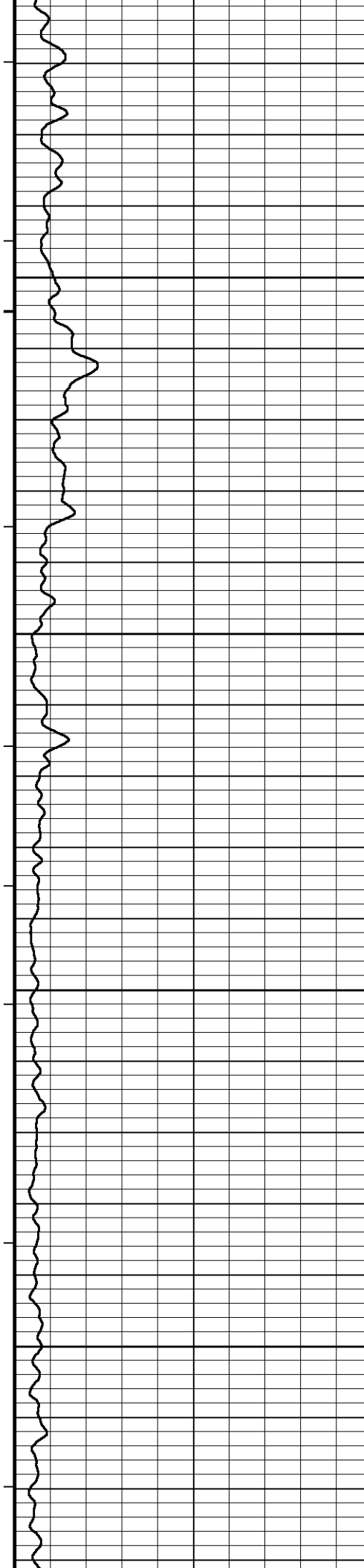
Array Ind. One Res 20

134°

8200

134°

8250



134°

8300

134°

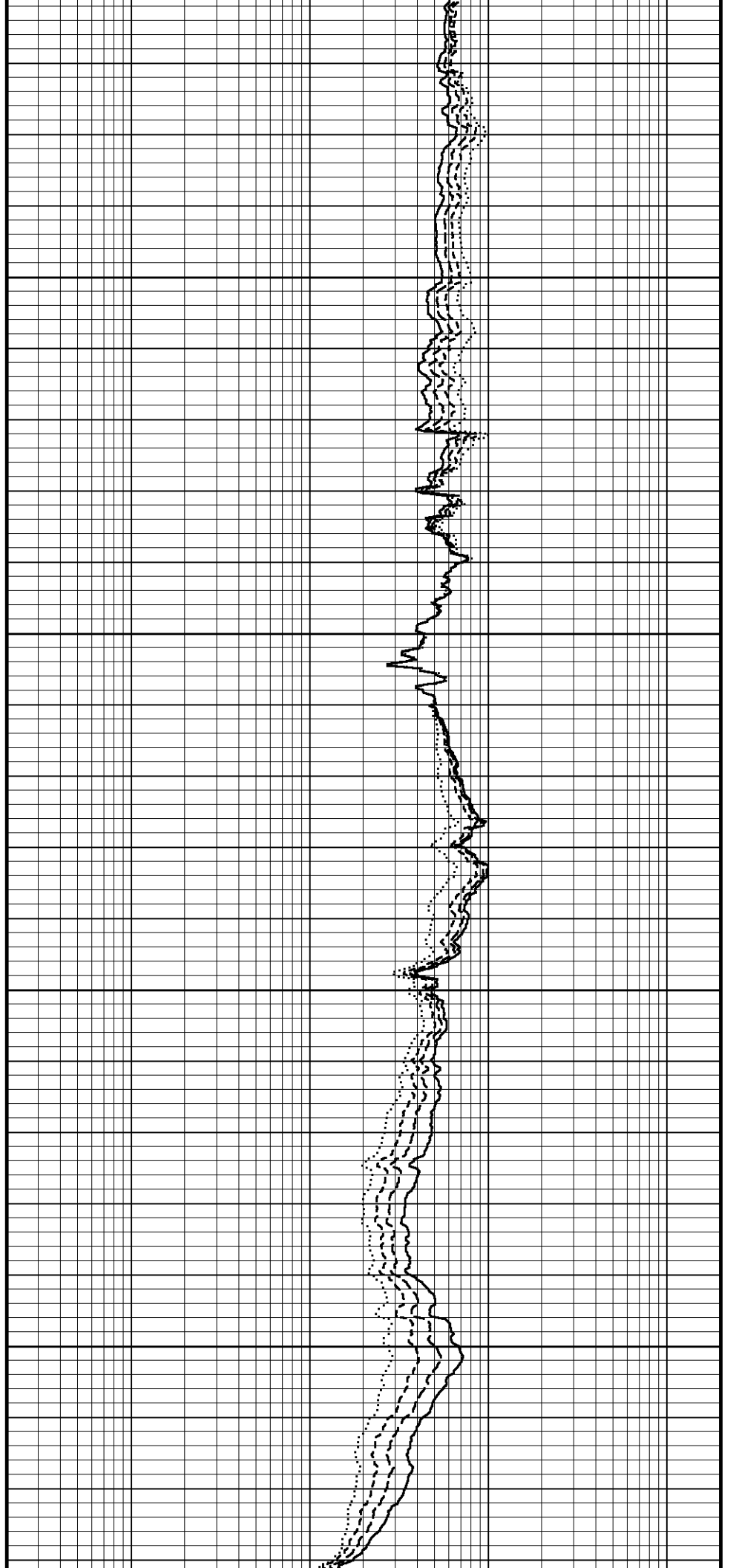
8350

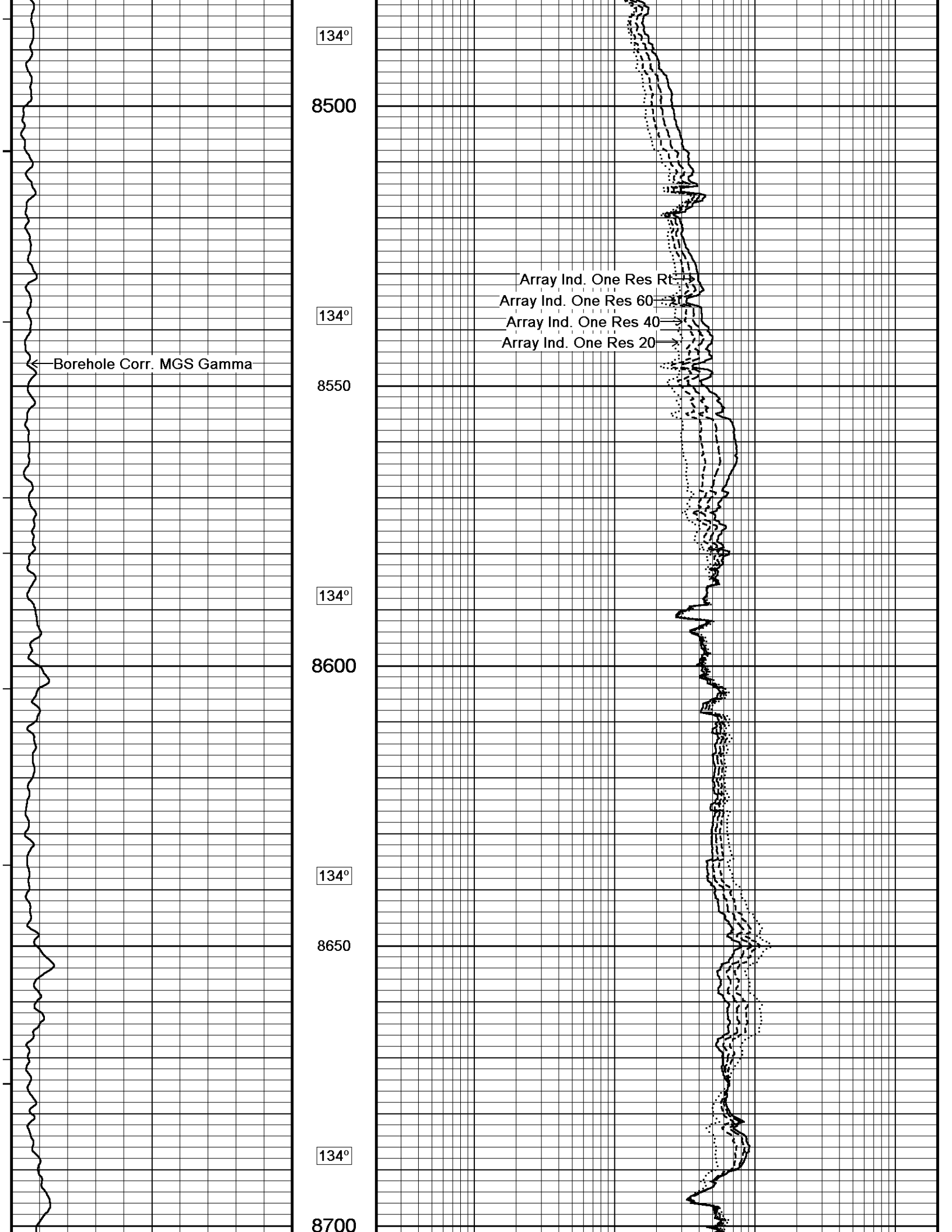
134°

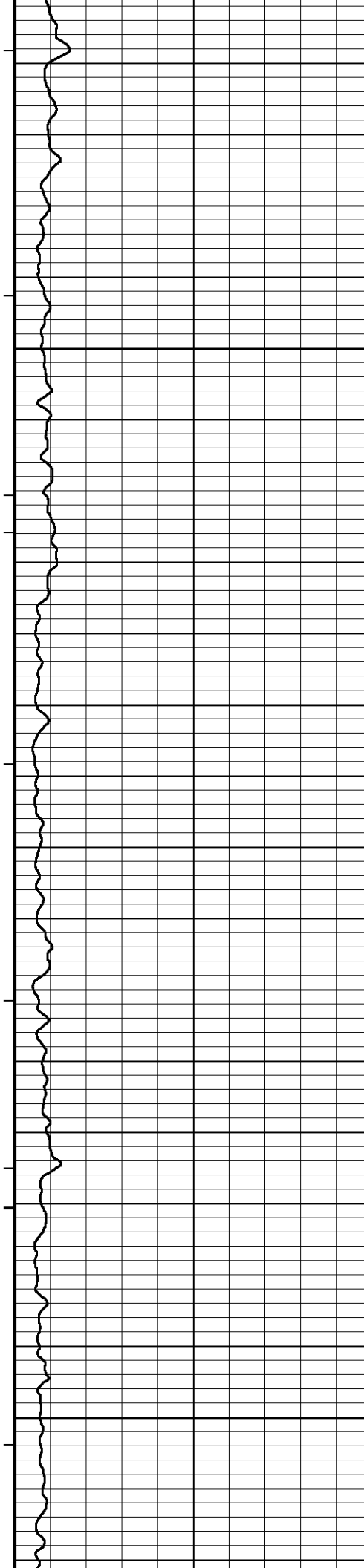
8400

134°

8450







134°

8750

134°

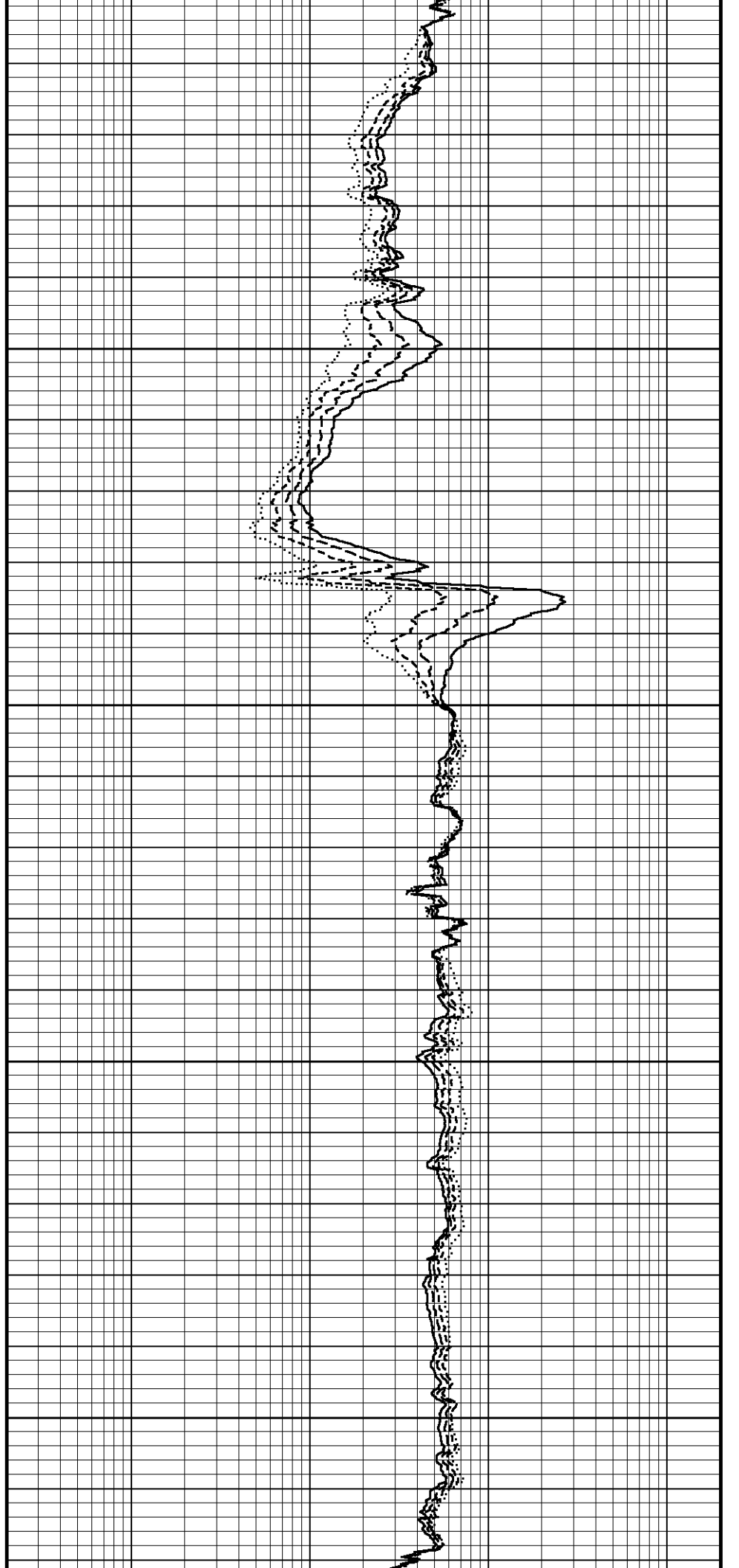
8800

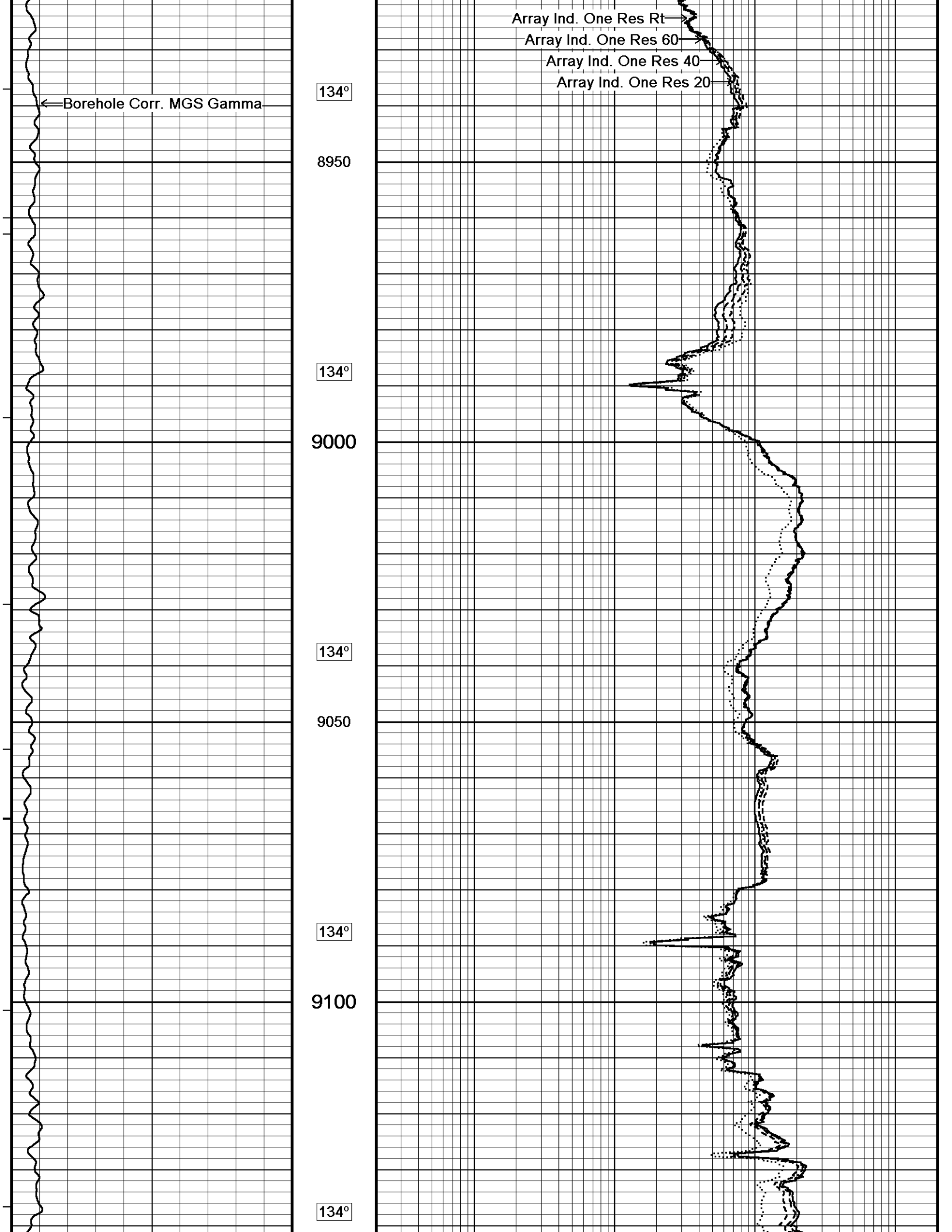
134°

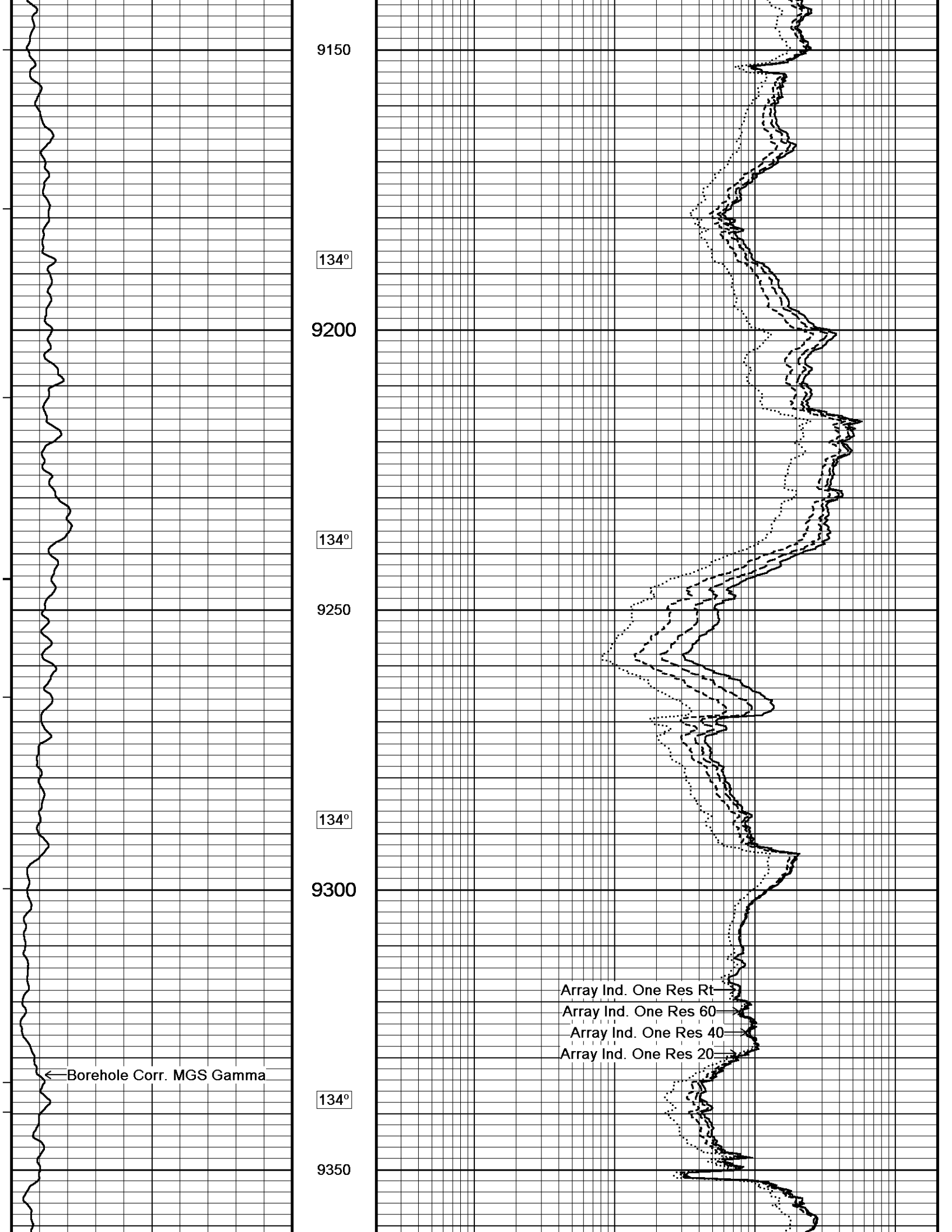
8850

134°

8900







9150

134°

9200

134°

9250

134°

9300

Array Ind. One Res Rt

Array Ind. One Res 60

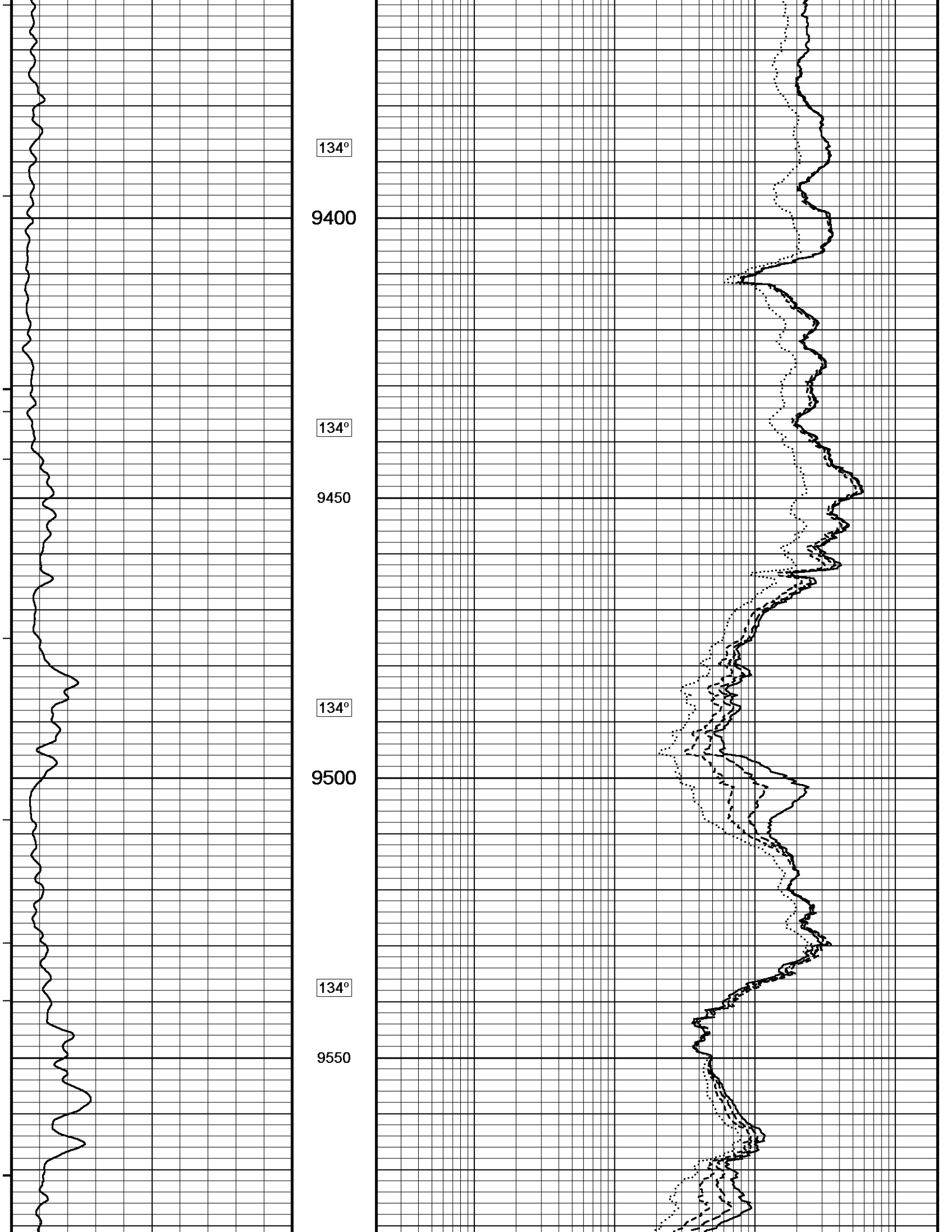
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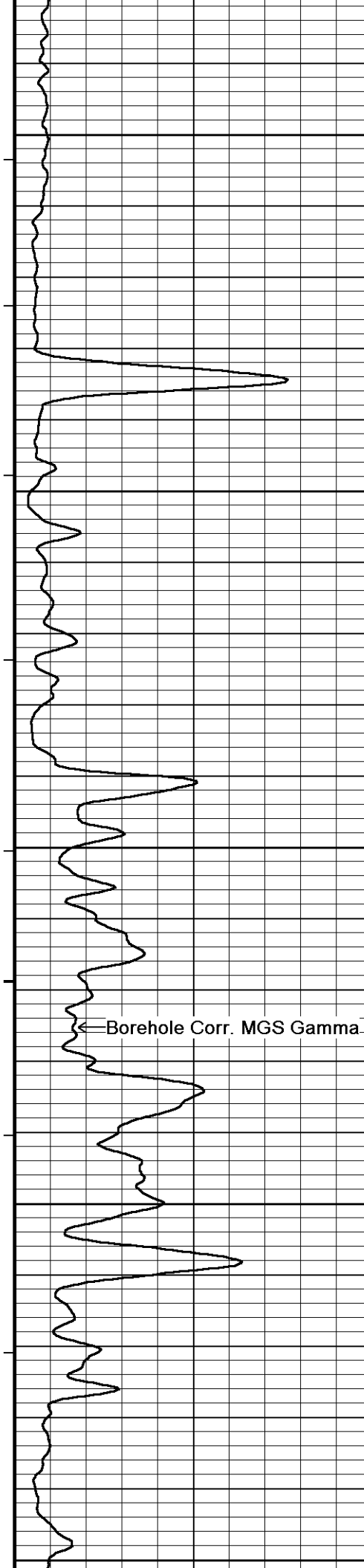
Array Ind. One Res 20

← Borehole Corr. MGS Gamma

134°

9350





134°

9600

134°

9650

133°

9700

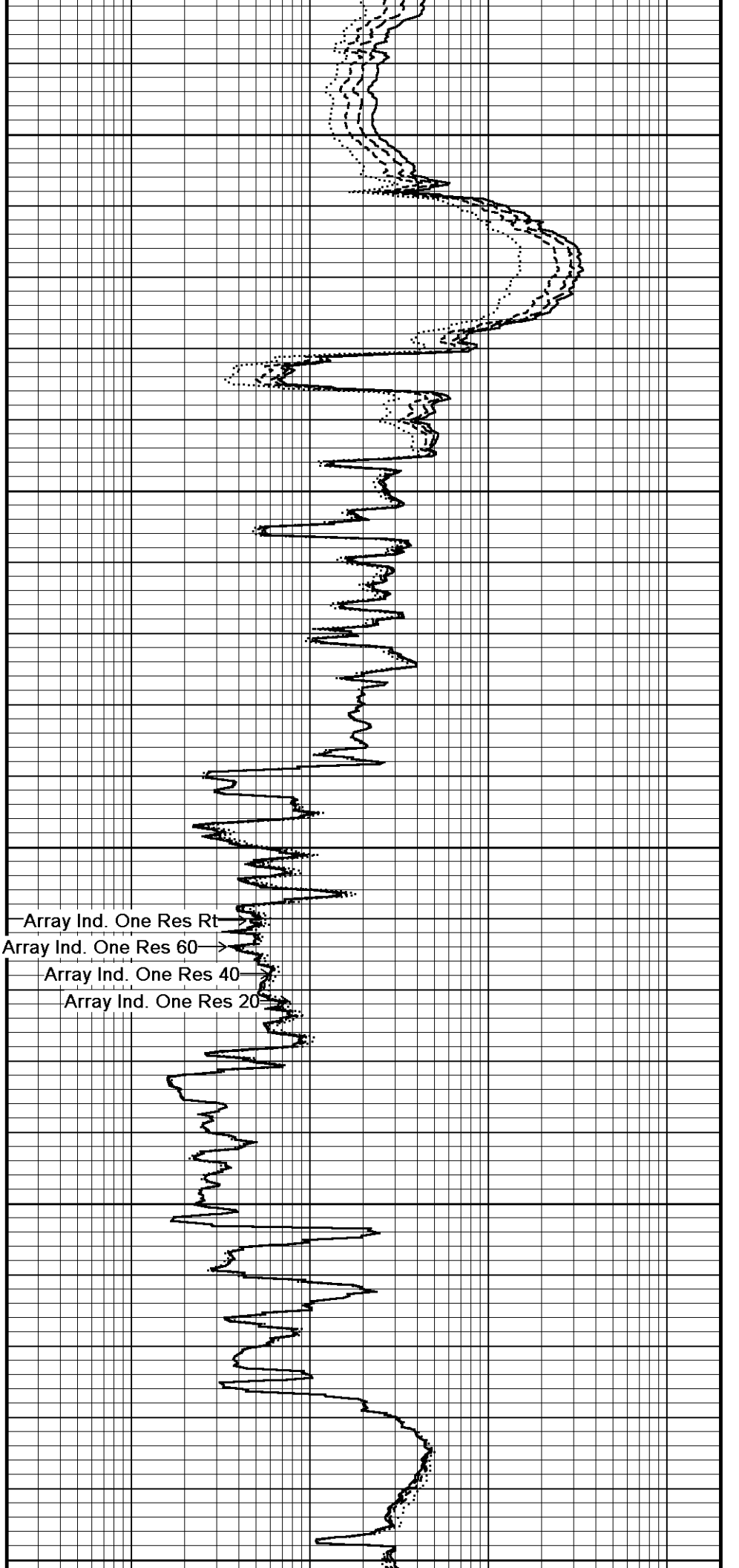
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Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 20

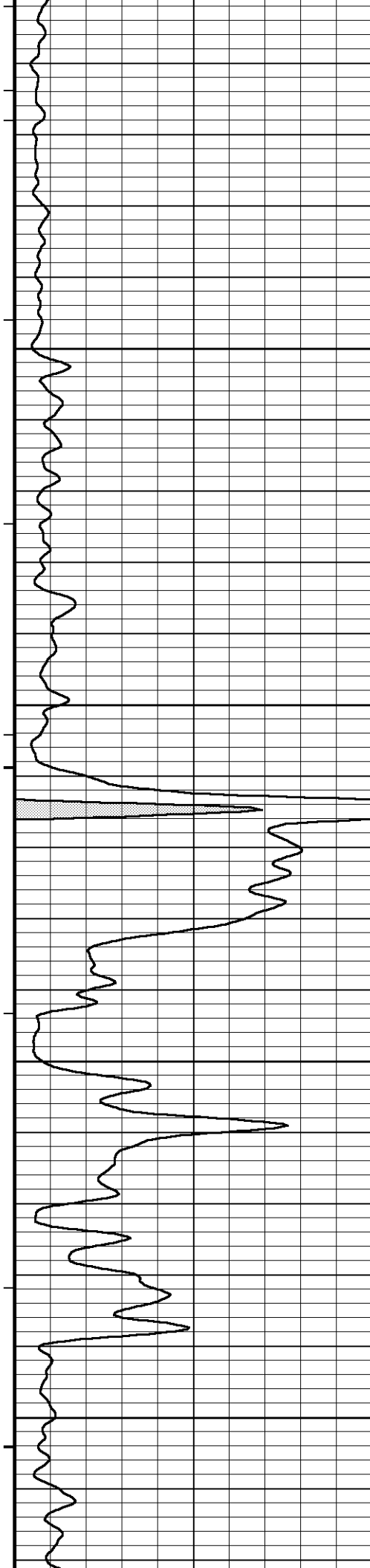
133°

9750

133°

9800





133°

9850

132°

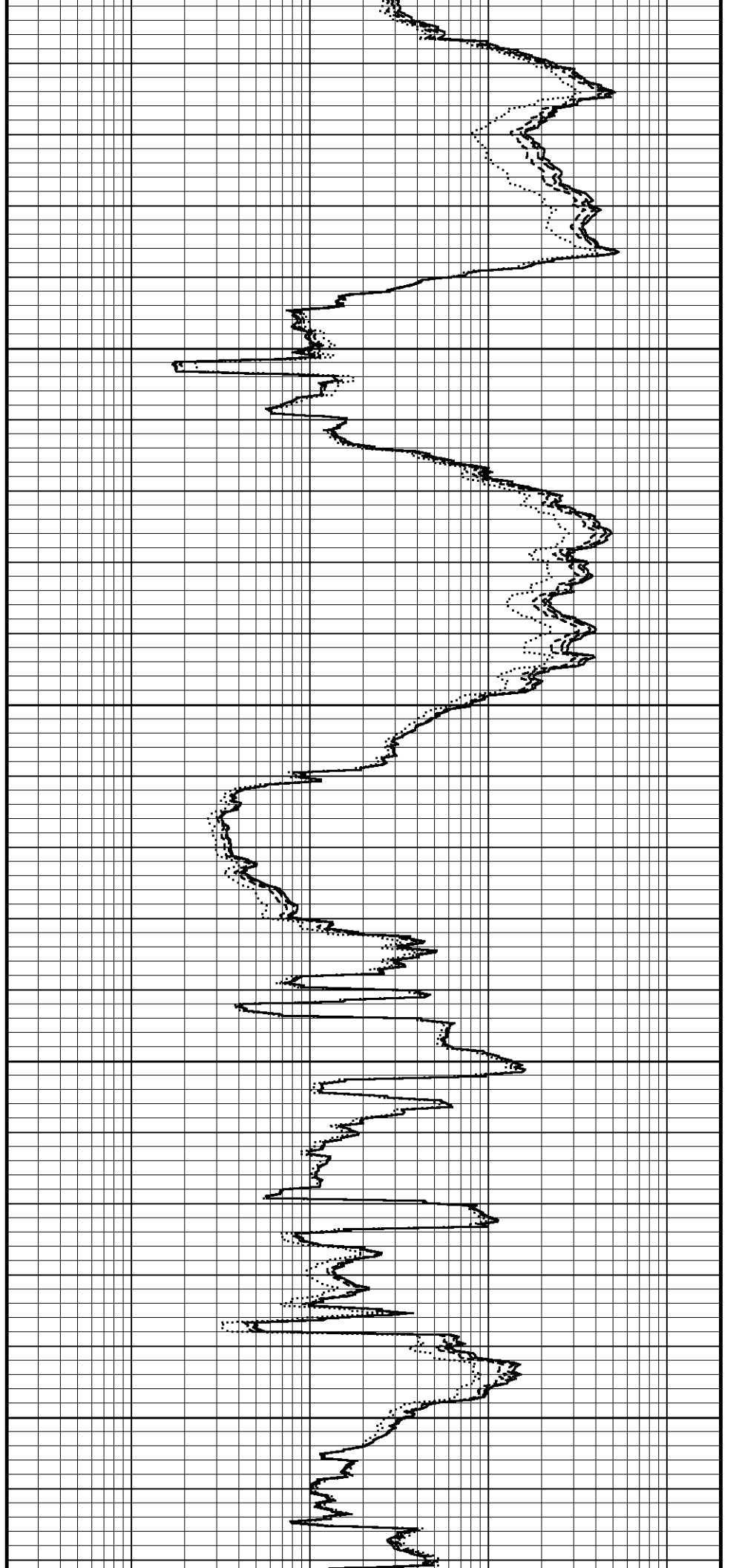
9900

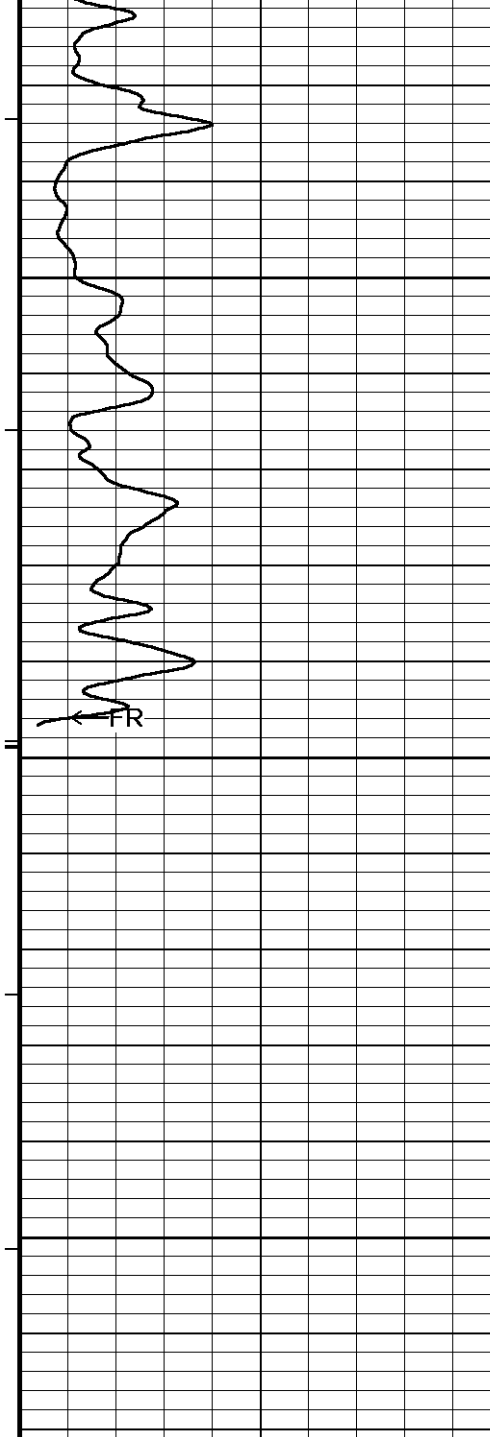
132°

9950

132°

10000





132°

10050

133°

10100

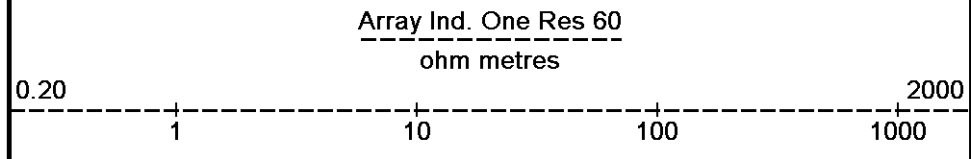
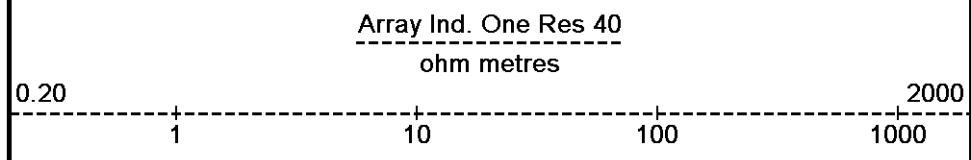
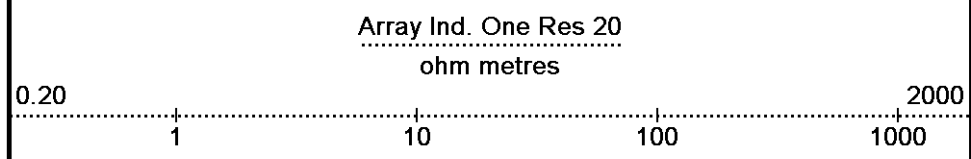
Array Ind. One Res Rt →
 Array Ind. One Res 60 →
 Array Ind. One Res 40 →
 Array Ind. One Res 20 →

10150

10170

Depth In Feet

Timing Marks every 60.0 sec



Borehole Temp in deg F

Borehole Corr. MGS Gamma

0	API 75	150
150	225	300

Array Ind. One Res Rt

Replay
Scale
1:240

0.20

ohm metres

2000

1

10

100

1000

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 21-APR-2013 11:42

Filename: C:\Minimus\Data\New Folder\32801 RTAP.dta

Recorded on 21-APR-2013 02:17

System Versions: Processed with 13.04.8492 Plotted with 13.04.8492



5 INCH MAIN LOG DSC



BEFORE SURVEY CALIBRATION

C:\Minimus\Data\New Folder\32801 RTAP.dta

Down-hole Tension Calibration All 000

Field Calibration on 24-FEB-2009 00:00

Reading No	Measured	
1	14953.75	0.00
2	17846.38	1500.00

General Constants All 000

Last Edited on 21-APR-2013,02:31

General Parameters

Mud Resistivity	2.150	ohm-metres
Mud Resistivity Temperature	60.000	degrees F
Water Level	0.000	feet
Borehole Fluid 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	Limestone Density Por.
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 05-SEP-2012,13:01

Reading No	Measured	Calibrated (lbs)
1	15152.07	0.00
2	18386.74	2000.00

Strain Gauge Constants MMS-E.B 167

Last Edited on 07-APR-2013,21:02

Atmospheric Pressure	14.70	psi
Serial Number	262784	
Calibration Date	21-Jan-2011	
Base Check Date		
Dead Weight Serial Number	0	
Dead Weight Gravitational Correction	1.0	

Temperature	75.0		150.0		250.0		350.0		degrees F
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	
0.0	0.038	0.038	0.049	0.049	0.063	0.063	0.077	0.078	
3000.0	5.218	5.220	5.230	5.232	5.244	5.246	5.257	5.259	
6000.0	10.409	10.412	10.422	10.425	10.436	10.440	10.447	10.452	
9000.0	15.610	15.615	15.623	15.628	15.638	15.643	15.650	15.656	
12000.0	20.823	20.826	20.837	20.841	20.853	20.857	20.866	20.869	
15000.0	26.048		26.064		26.081		26.093		

MMS Parameters MMS-E.B 167

Last Edited on 19-APR-2013 14:13

Logging Parameters

Firmware Version	2v40
Caliper Open On	MAI
Caliper Open Delay	minutes

Caliper Closed On	Unknown	
Caliper Closed Delay	N/A	minutes
Sample Rate	1.00	seconds
Use Deep Sleep	No	
Delay Deep Sleep	N/A	
Deep Sleep Wake Time	N/A	minutes
Deep Sleep Wake on Temperature	N/A	
Deep Sleep Wake Temperature	N/A	degrees C
Deep Sleep Wake on Pressure	N/A	
Deep Sleep Wake Pressure	N/A	psi
MMI Pad Pressure	0.0	

Release Parameters

Pulse Duration Base Level	10.0	seconds
Pulse Duration Transition Time	60.0	seconds
Pulse Duration Status Pulse From	20.0	seconds
Pulse Duration Caliper Close From	145.0	seconds
Pulse Duration Caliper Open From	150.0	seconds
Pulse Duration Release Pulse From	215.0	seconds
Pulse Duration Release Pulse To	280.0	seconds
Pulse Release Duration	240.0	seconds
Pulse Discriminator Pressure Band	1235.0	seconds
Pulse Pressure Discriminator	2822.0	seconds
Use Negative Pulsing	No	
Good Status Reply Open Hole	65535.0	seconds
Good Status Reply Cased Hole	20.0	seconds
Bad Status Reply	60.0	seconds
Status Pulse To	80.0	seconds
Caliper Close To		seconds
Caliper Open To	210.0	seconds

Configuration

MMS,MGS,MDN,MPD,MPD,MFE,MAI

High Resolution Temperature Calibration MGS-C.J 136

Field Calibration on 19-APR-2013,13:40

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	0.00	0.00

High Resolution Temperature Constants MGS-C.J 136

Last Edited on 19-APR-2013,13:40

Pre-filter Length	11
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SP Calibration MGS-C.J 136

Field Calibration on 19-APR-2013,13:39

	Measured	Calibrated (mV)
Reference 1	102.2	98.7
Reference 2	-94.7	-98.3

Gamma Calibration MGS-C.J 136

Field Calibration on 19-APR-2013 13:39

	Measured	Calibrated (API)
Background	75	54
Calibrator (Gross)	1824	1315
Calibrator (Net)	1749	1261

Gamma Constants MGS-C.J 136

Last Edited on 17-APR-2013,12:24

Gamma Calibrator Number	BLUE	
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 390

Base Calibration on 06-APR-2013 14:54

Field Check on 19-APR-2013 13:54

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	2935	90	3714	110
	32.709		33.764	

Field Calibrator at Base	Calibrated (cps)
	1296 1890
Ratio	0.685
Field Check	Calibrated (cps)
	1276 1860
Ratio	0.688

Neutron Constants MDN-B.J 390

Last Edited on 19-APR-2013,13:49

Neutron Source Id	p33312b	
Neutron Jig Number	blue	
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	4.26	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	1.00	kppm
Salinity Correction	Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-B.J 359

Base Calibration on 13-MAR-2013 10:08
Field Check on 19-APR-2013 13:43

Base Calibration	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	960.4	126.8
Base Check		280.9
Field Check		280.9

FE Constants MFE-B.J 359

Last Edited on 19-APR-2013,13:42

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.	MGS External Temperature	
Stand-off	0.5	inches

Induction Calibration MAI-A.A 158

Base Calibration on 06-APR-2013,15:50
Field Check on 19-APR-2013 13:41

Base Calibration	Measured	Calibrated (mmho/m)
Test Loop Calibration	Low High	Low High
Channel		
1	17.2 475.3	9.3 966.2
2	6.1 381.2	7.6 821.4
3	3.8 265.2	5.2 566.0
4	2.7 132.2	2.6 279.2
Array Temperature	22.3	Deg F
Channel	Base Check (mmho/m)	Field Check (mmho/m)
	Low High	Low High
1		11.4 3815.7
2		29.4 3531.6
3		26.7 2982.2
4		17.7 2098.0
Deep		14.6 1944.1
Medium		40.4 3888.5
Shallow		46.2 5238.0

Induction Constants MAI-A.A 158

Last Edited on 21-APR-2013,02:31

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		0.0000	inches
Borehole Corr. Rm Source		Temperature Corr	
Temp. for Rm Corr.		Borehole Temp. Unfilt.	
Squasher Start		0.0020	mhos/metre
Squasher Offset		N/A	mhos/metre
Borehole Normalisation			
DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

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

Apparent Porosity and Water Saturation Constants

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

High Resolution Temperature Calibration MAI-A.A 158

Field Calibration on 19-APR-2013,13:42

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	0.00	0.00

High Resolution Temperature Constants MAI-A.A 158

Last Edited on 19-APR-2013,13:42

Pre-filter Length	11
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Caliper Calibration MPD-C.J 393

Base Calibration on 05-APR-2013 10:07

Field Calibration on 19-APR-2013 13:45

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	18832	4.01
2	26992	5.96
3	35520	7.98
4	43613	9.86
5	52560	11.88
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	5.93	5.96

Photo Density Calibration MPD-C.J 393

Base Calibration on 05-APR-2013 09:57

Field Check on 19-APR-2013 13:49

Density Calibration	Measured	Calibrated (sdu)
Base Calibration		
	Measured	Calibrated (sdu)
	5.93	5.96

	Near	Far	Near	Far
Reference 1	57842	26401	59869	31110
Reference 2	24614	2567	24557	2522

Field Check at Base
1206.7 1317.1

Field Check
1209.9 1335.8

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	221	1082		
Reference 1	25058	57644	0.439	0.369
Reference 2	7310	24479	0.303	0.271

Field Check at Base
220.9 1082.0

Field Check
220.2 1087.9

Density Constants MPD-C.J 393

Last Edited on 14-APR-2013,08:51

Density Source Id	P21137B	
Nylon Calibrator Number	633	
Aluminium Calibrator Number	633	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.14	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)	
2.71	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

C:\Minimus\Data\New Folder\32801 RTAP.dta

RUNNING TOOL

MLK-A 1 LG: 4.87 ft WT: 30.9 lb OD: 2.24 in

MBS-F.A 200v Compact Battery Sub

MBS-F.A 115 LG: 10.61 ft WT: 70.5 lb OD: 2.24 in

Compact Memory Sub E.B

MMS-E.B 167 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

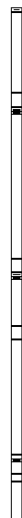
Compact Tool Isolator sub.

MTI-B.A 67 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma

MGS-C.J 136 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

Compact Calliper



59.62 ft GGME - Borehole Corr. MGS Gamma
57.63 ft GSXT - MGS External Temperature

55.62 ft MGS-C.J Calliper

Compact Collar Locator
 MCL-B.J 68 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 456 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 451 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-A.A Compact Inline Bowspring sub
 MIS-A.A 260 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
 MDN-B.J 390 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
 MPD-C.J 393 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub
 MIS-D.B 591 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 455 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

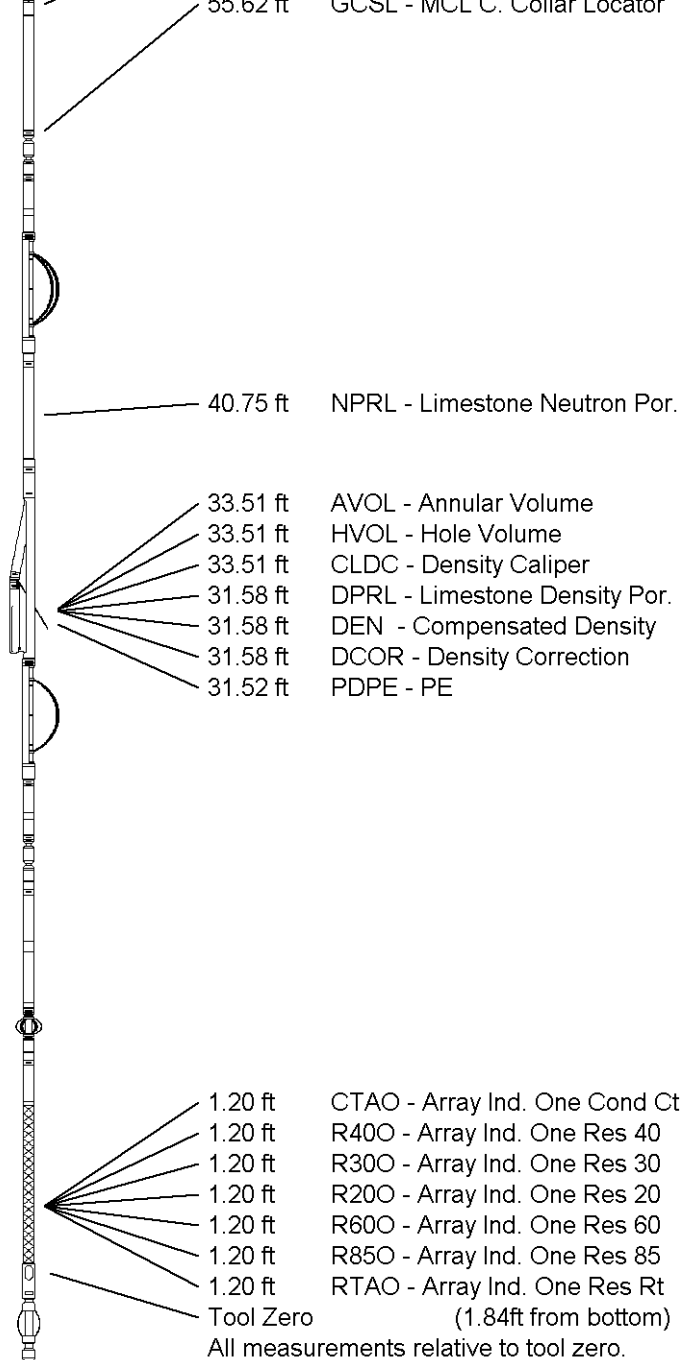
SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 469 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
 MFE-B.J 359 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
 MIS-E.B 573 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction
 MAI-A.A 158 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in

Total Length: 84.48 ft Weight: 615.1 lb



COMPANY SANDRIDGE ENERGY
WELL ARIANA 3419 1-7H
FIELD COMANCHE PROSPECT
PROVINCE/COUNTY COMANCHE
COUNTRY/STATE USA / KANSAS

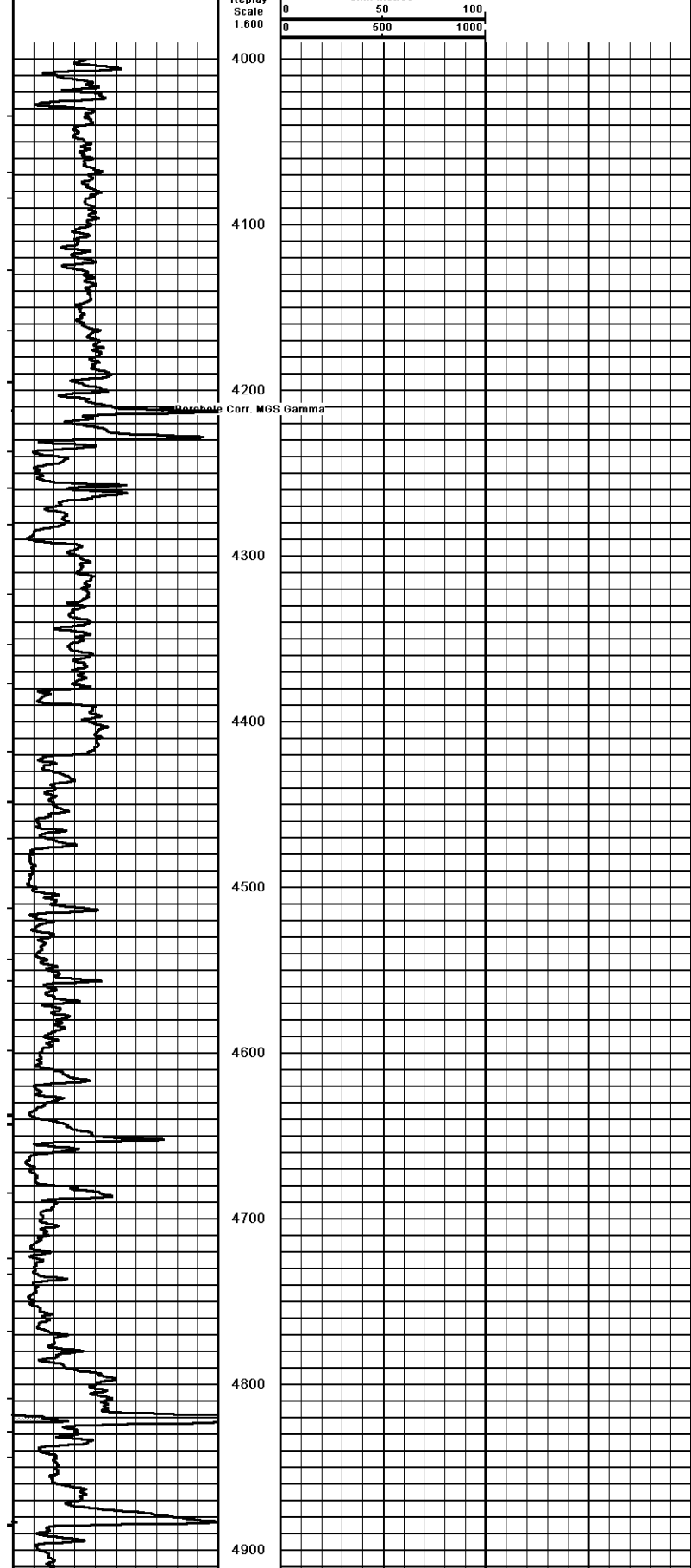
Elevation Kelly Bushing	1830.00	feet	First Reading	10152.00	feet
Elevation Drill Floor	1830.00	feet	Depth Driller	10160.00	feet
Elevation Ground Level	1809.00	feet	Depth Logger	10160.00	feet

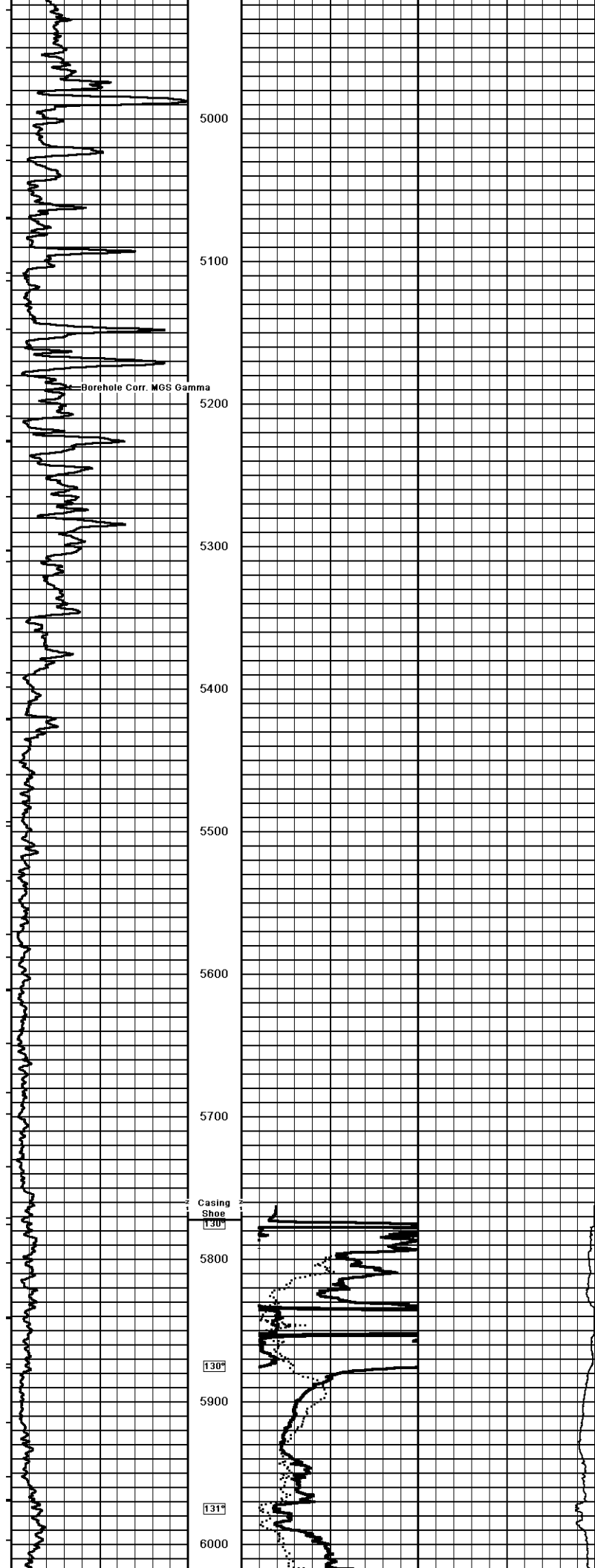


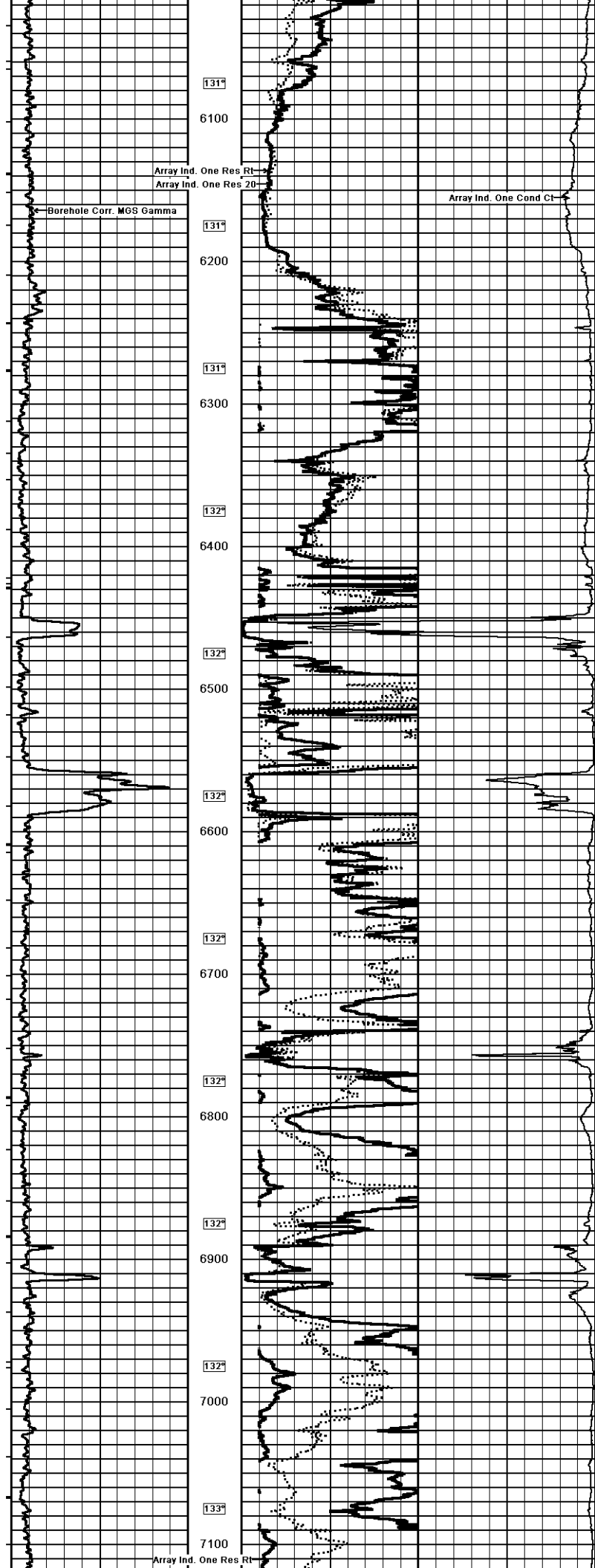
CML MESSENGER SHUTTLE
ARRAY INDUCTION
LOG

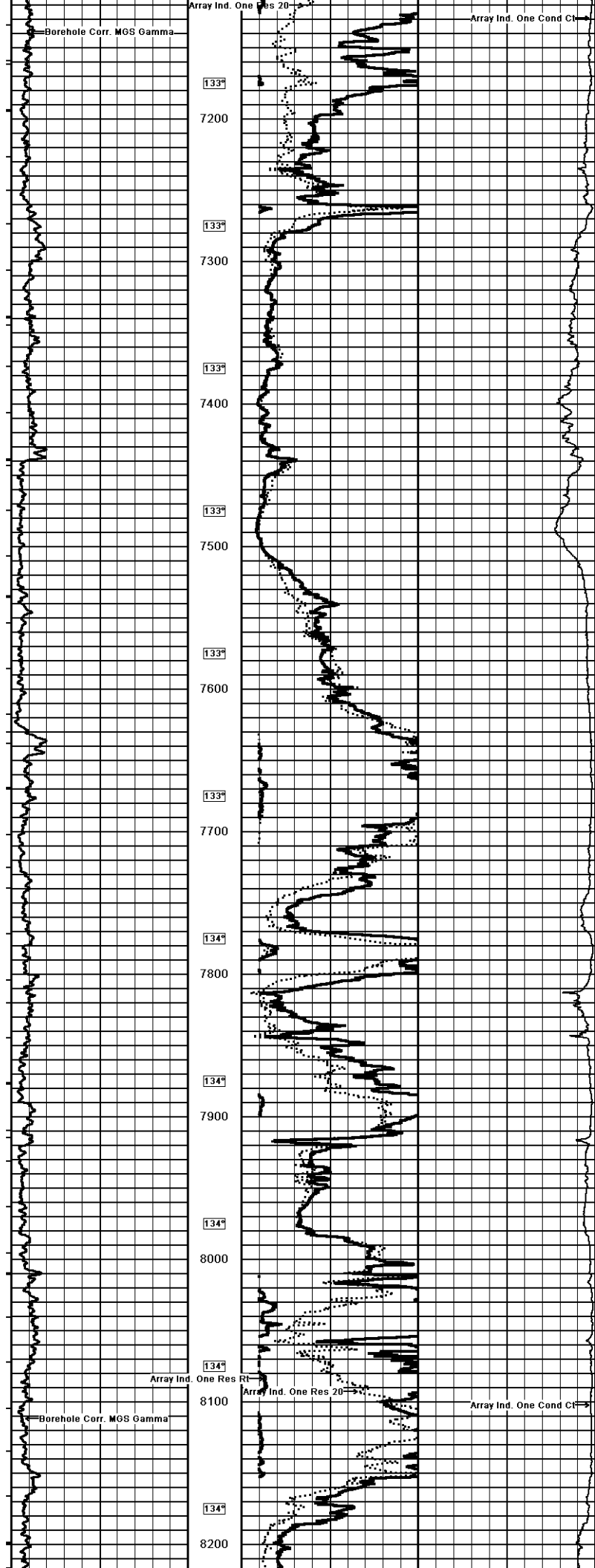
Weatherford®

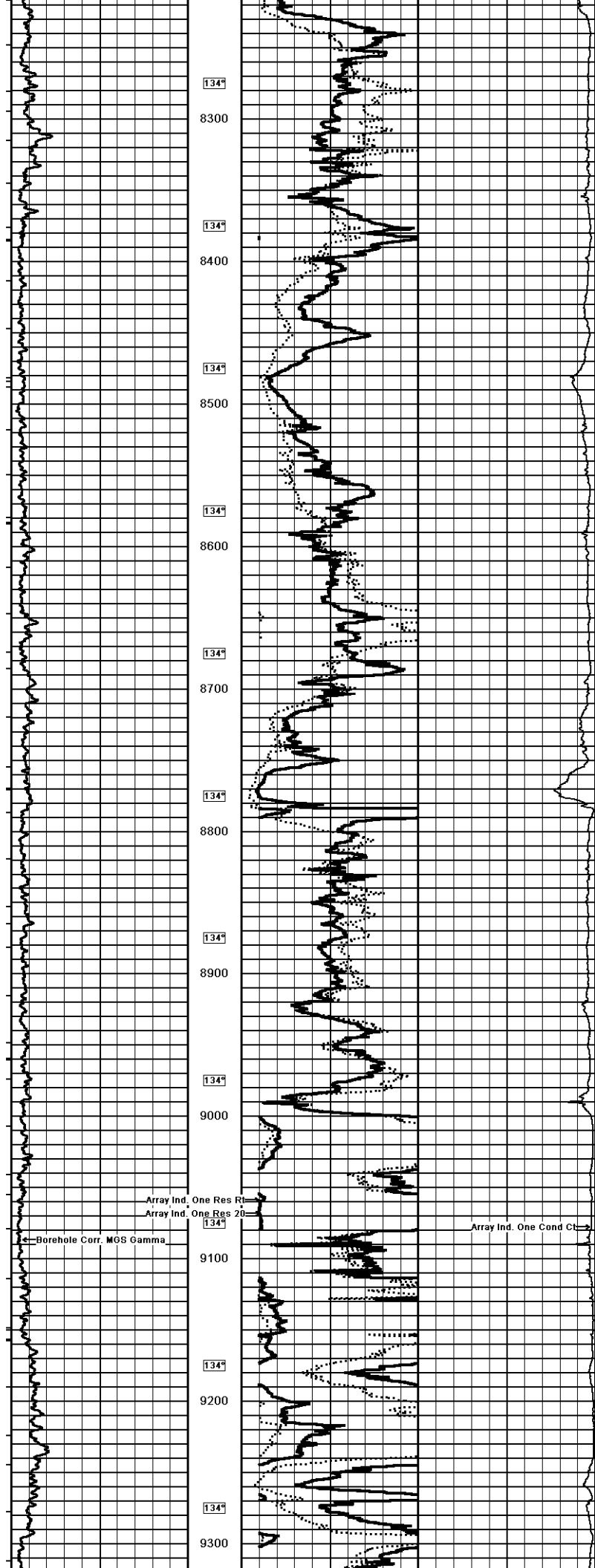
<p>Timing Marks every 60.0 sec</p>	<p>Depth In Feet</p>	<p>Array Ind. One Cond Ct</p>				
		1000	750	500	250	0
<p>Borehole Temp in deg F</p>	<p>Array Ind. One Res 20 ohm metres</p>	<p>.....</p>				
		0	50	100		
<p>Borehole Corr. MGS Gamma</p>	<p>API</p>	<p>.....</p>				
		0	75	150		
<p>0</p>	<p>150</p>	<p>.....</p>				
		150	225	300		
<p>Replay Scale</p>	<p>Array Ind. One Res Rt ohm metres</p>	<p>.....</p>				
		0	50	100		
<p>1:600</p>	<p>0</p>	<p>.....</p>				
		0	500	1000		

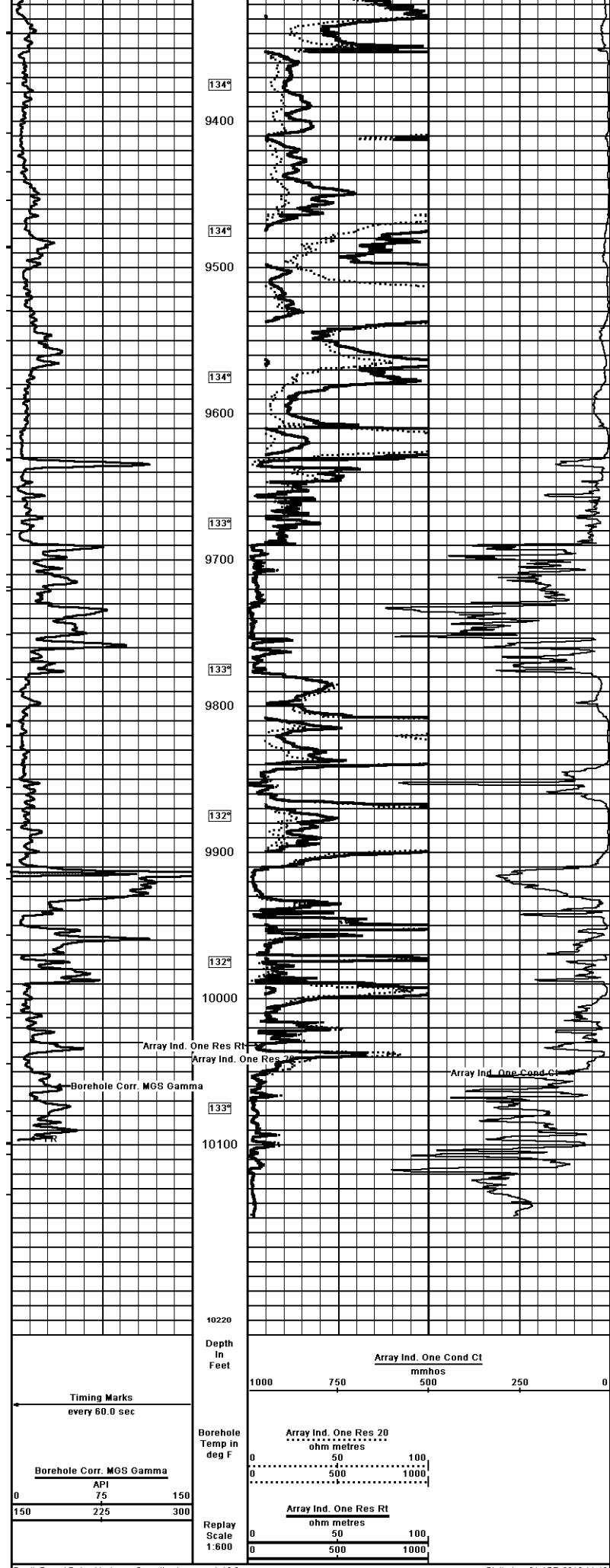













COMPANY	SANDRIDGE ENERGY			
WELL	ARIANA 3419 1-7H			
FIELD	COMANCHE PROSPECT			
PROVINCE/COUNTY	COMANCHE			
COUNTRY/STATE	USA / KANSAS			
Elevation Kelly Bushing	1830.00	feet	First Reading	10152.00 feet
Elevation Drill Floor	1830.00	feet	Depth Driller	10160.00 feet
Elevation Ground Level	1809.00	feet	Depth Logger	10160.00 feet
		CML MESSENGER SHUTTLE ARRAY INDUCTION LOG		