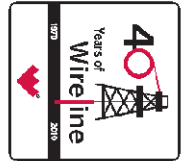




Weatherford

**CML MESSENGER SHUTTLE
ARRAY INDUCTION
ELECTRIC LOG**

COMPANY **VESS OIL CORP.**
WELL **MCCORD 'A' 20H**
FIELD **BEMIS SHUTTS**
PROVINCE/COUNTY **ELLIS**
COUNTRY/STATE **USA / KANSAS**
LOCATION **1680' FNL & 788' FEL**



SEC **26** TWP **11S** RGE **17W** Other Services
MPD/MDN
CMI
API Number **15-051-26218.010** CXD
Permit Number

Permanent Datum G.L., Elevation 2091 feet
Log Measured From K.B. @ 9.6 FEET above Permanent Datum
Drilling Measured From K.B.

Elevations: feet
KB 2100.60
DF 2099.00
GL 2091.00

Date	23-NOV-2011
Run Number	ONE
Depth Driller	5805.00 feet
Depth Logger	5805.00 feet
First Reading	5780.00 feet
Last Reading	3740.00 feet
Casing Driller	3740.00 feet
Casing Logger	3740.00 feet
Bit Size	6.125 inches
Hole Fluid Type	CHEM
Density / Viscosity	9.20 lb/USg 63.00 CP
PH / Fluid Loss	10.50 6.80 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	0.80 @ 55.0 ohm-m
Rmf @ Measured Temp	0.64 @ 55.0 ohm-m
Rmc @ Measured Temp	0.96 @ 55.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.41 @105.0 ohm-m
Time Since Circulation	6 HOURS
Max Recorded Temp	105.00 deg F
Equipment Name	COMPACT
Equipment / Base	18006 OKC
Recorded By	D. ROWELL
Witnessed By	R. MARTIN
S.O.# / AFE	3534253

BOREHOLE RECORD			Last Edited: 23-NOV-2011 10:42	
Bit Size	Depth From	Depth To		
inches	feet	feet		
6.125	3740.00	5805.00		
CASING RECORD				
Type	Size	Depth From	Shoe Depth	Weight
	inches	feet	feet	pounds/ft
INTERMED	7.000	0.00	3740.00	26.00

REMARKS

WLS LOGGING SOFTWARE VERSION 11.02.3186 WAS USED

ALL LOGS WERE SET TO DEPTH WITH MWD GAMMA RAY

DRILL PIPE DEPTH DURING DEPLOYMENT: 5680
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 5780

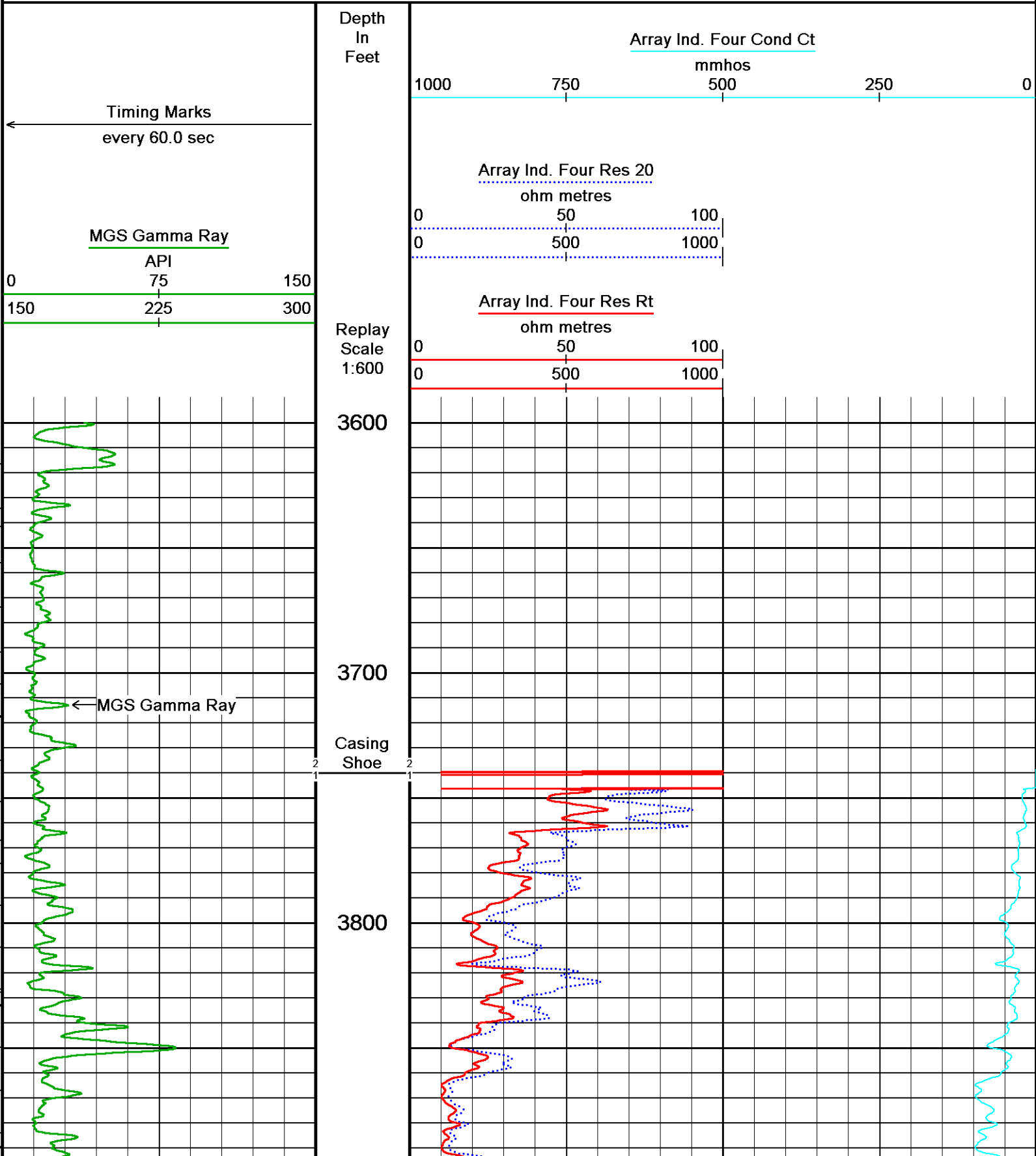
LAT: 39.06994 N
LONG: 99.16968 W

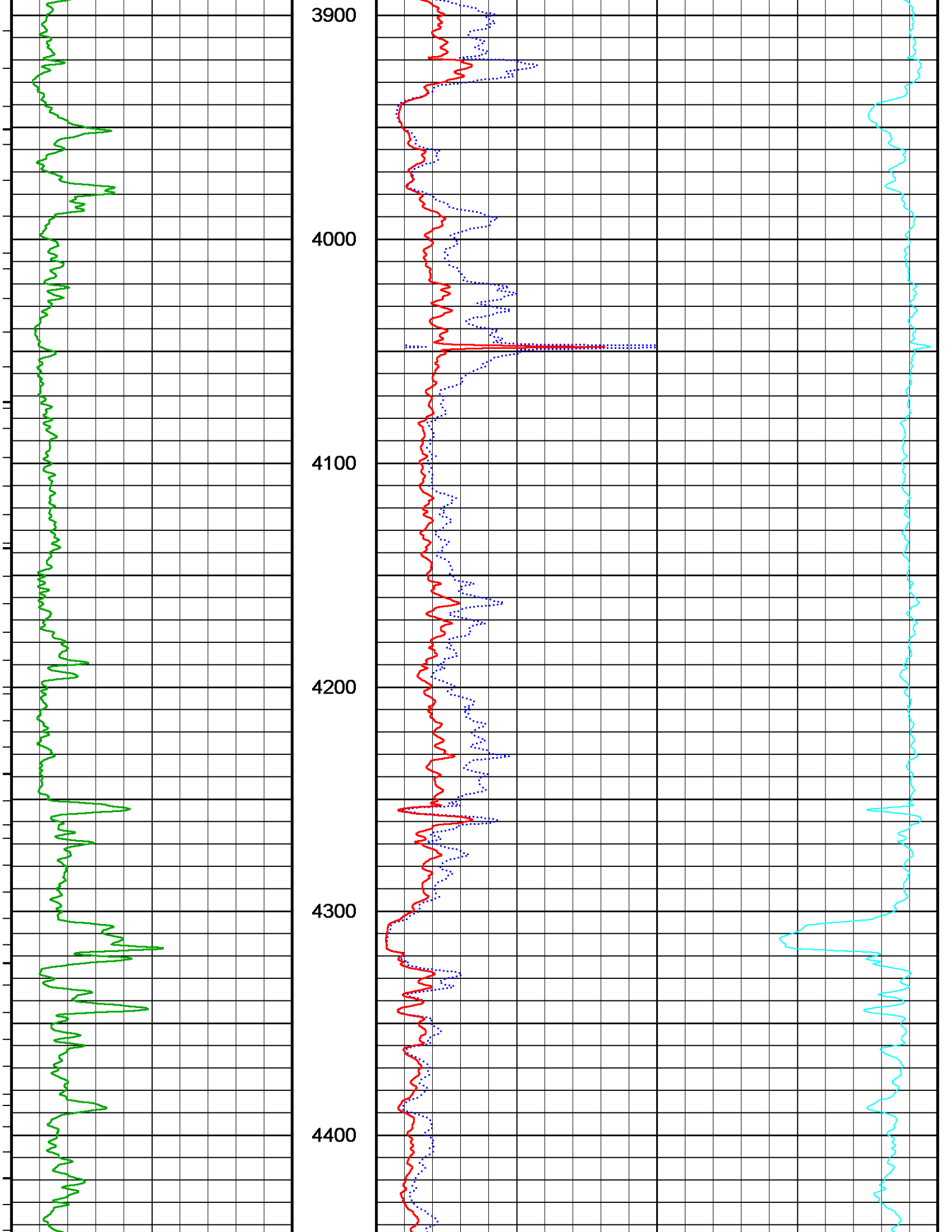
OPERATORS: M FISHER, J. TURNER
S.O: 3534253
RIG: MAVERICK 106

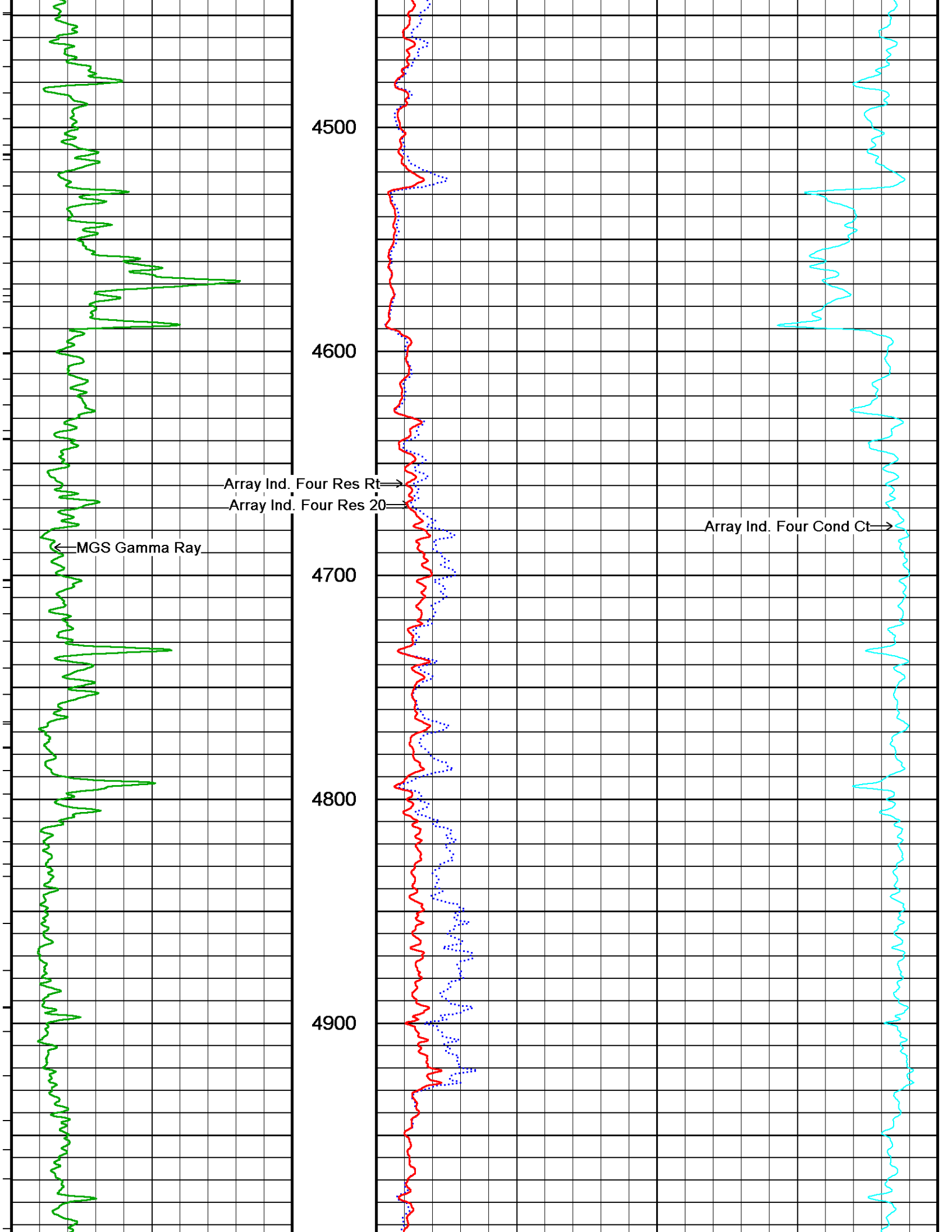
All interpretations are opinions based on electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or 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 02-DEC-2011 16:23
 Filename: G:\Data\Vess McCord A 20H\Mccord A 20H plotted\GOOD RTAP.dta Recorded on 22-NOV-2011 23:03
 System Versions: Processed with 11.03.4044 Plotted with 12.03.5032





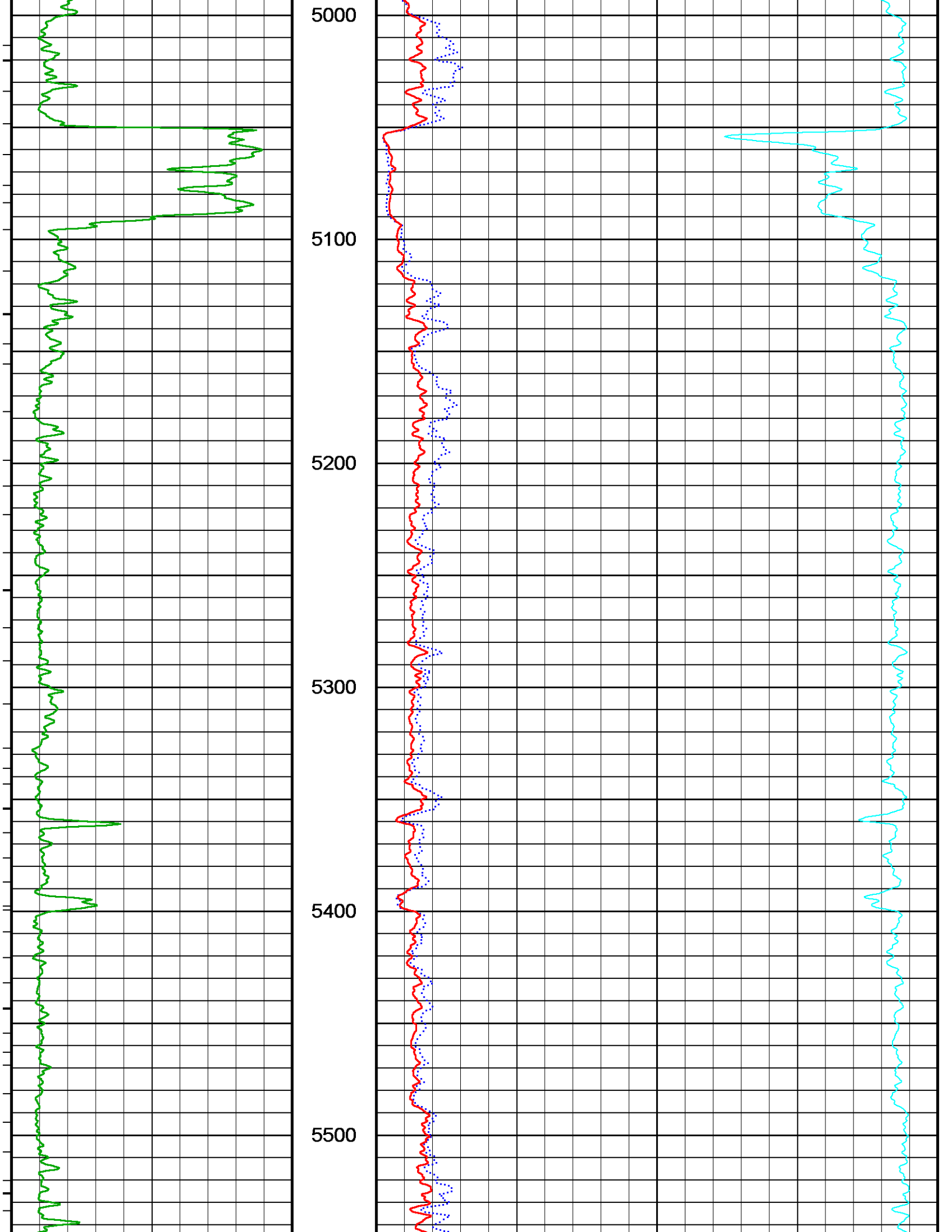


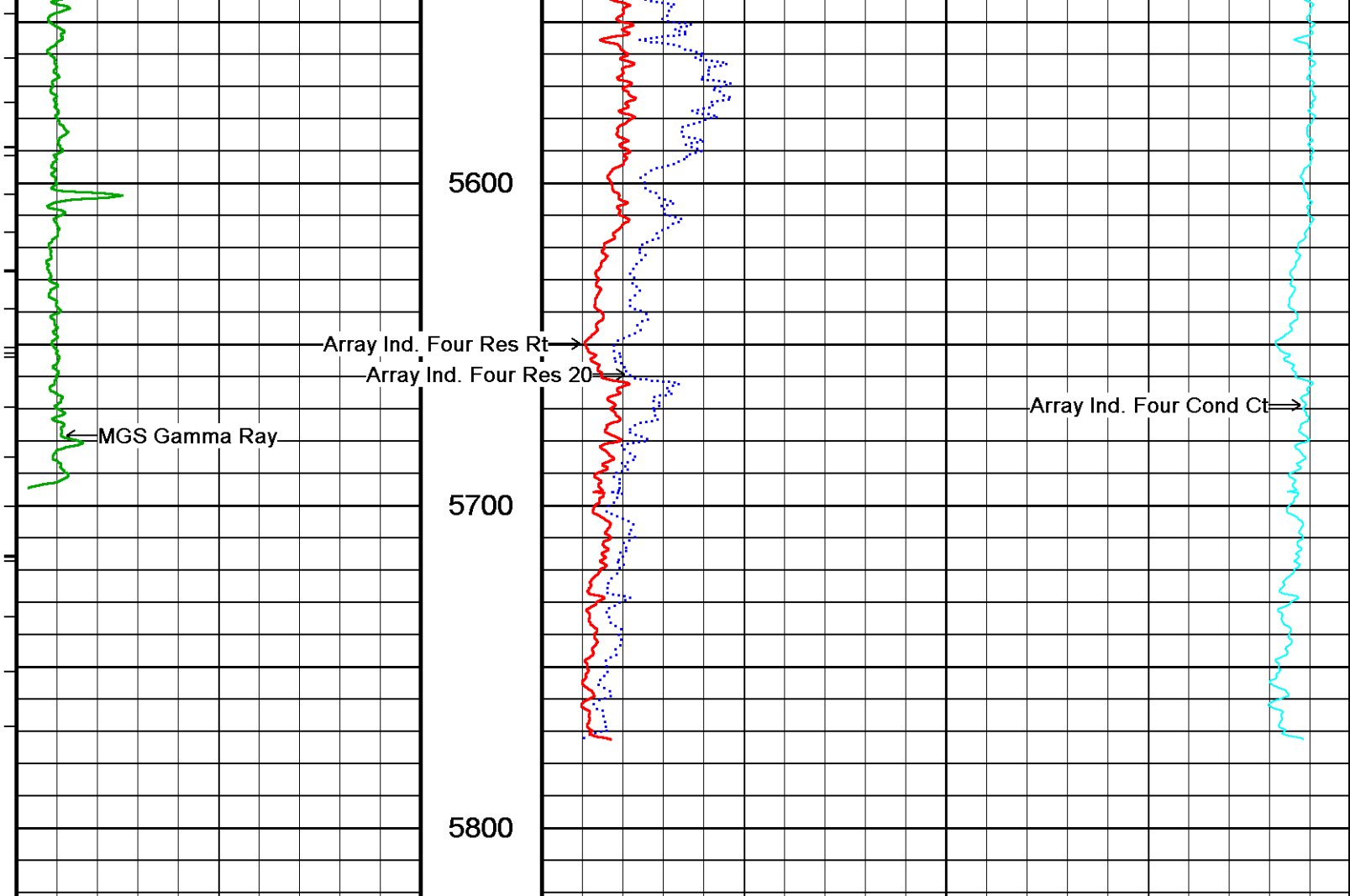
← MGS Gamma Ray

Array Ind. Four Res Rt →

Array Ind. Four Res 20 →

Array Ind. Four Cond Ct →





Timing Marks every 60.0 sec

MGS Gamma Ray

API		
0	75	150
150	225	300

Depth In Feet

Array Ind. Four Cond Ct

mmhos

1000 750 500 250 0

Array Ind. Four Res 20

ohm metres

0 50 100

0 500 1000

Array Ind. Four Res Rt

ohm metres

0 50 100

0 500 1000

Replay Scale 1:600

Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: G:\Data\Vess McCord A 20H\Mccord A 20H plotted\GOOD RTAP.dta
 System Versions: Processed with 11.03.4044 Plotted with 12.03.5032

Plotted on 02-DEC-2011 16:23
 Recorded on 22-NOV-2011 23:03

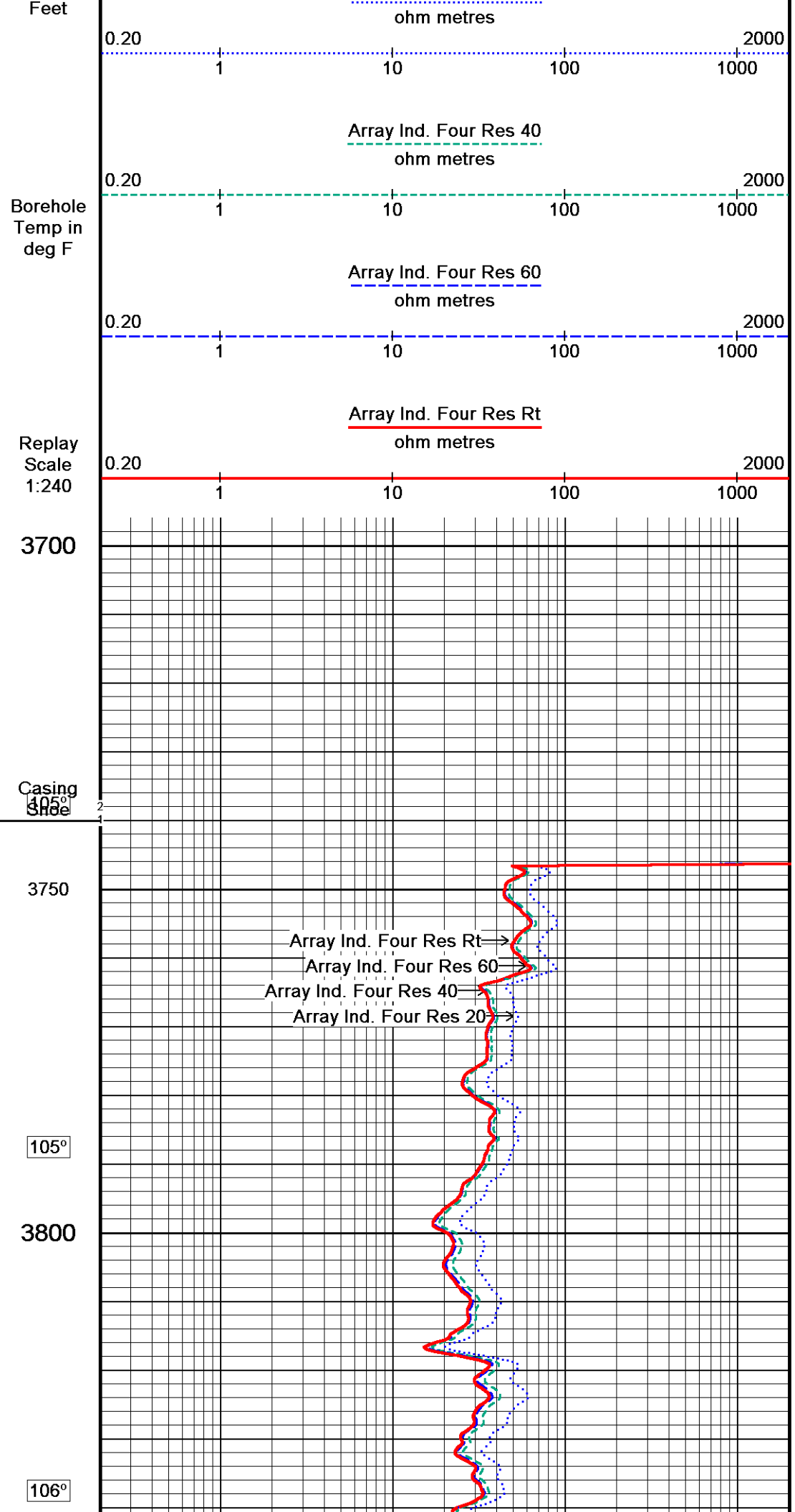
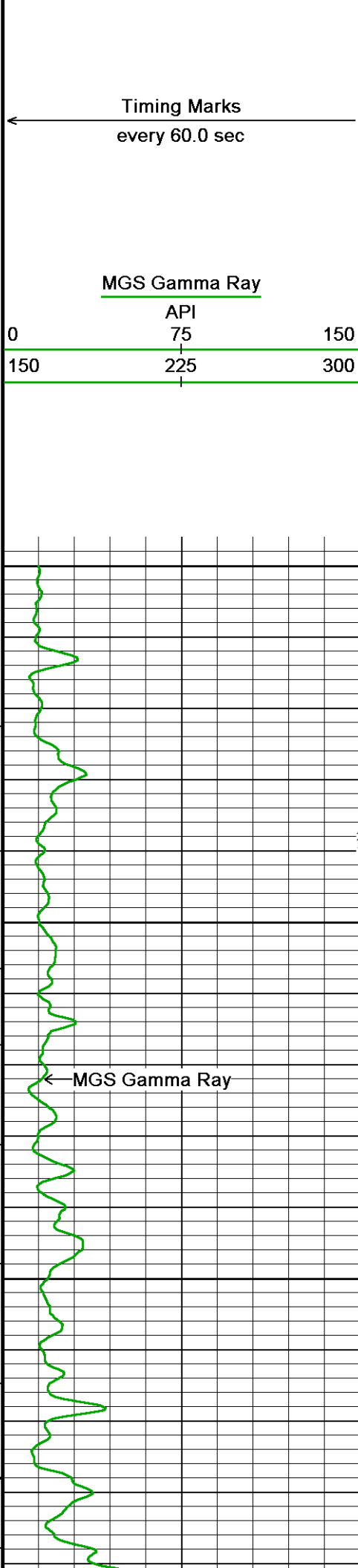
2 INCH MAIN LOG DSC

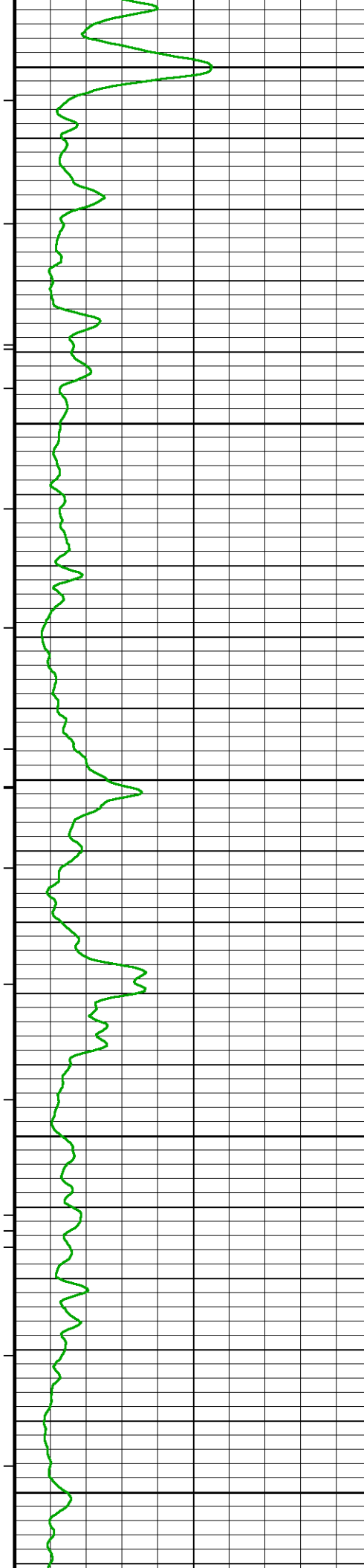
5 INCH MAIN LOG DSC

Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: G:\Data\Vess McCord A 20H\Mccord A 20H plotted\GOOD RTAP.dta
 System Versions: Processed with 11.03.4044 Plotted with 12.03.5032

Plotted on 02-DEC-2011 16:23
 Recorded on 22-NOV-2011 23:03

	Depth In	Array Ind. Four Res 20
--	----------	------------------------





3850

106°

3900

106°

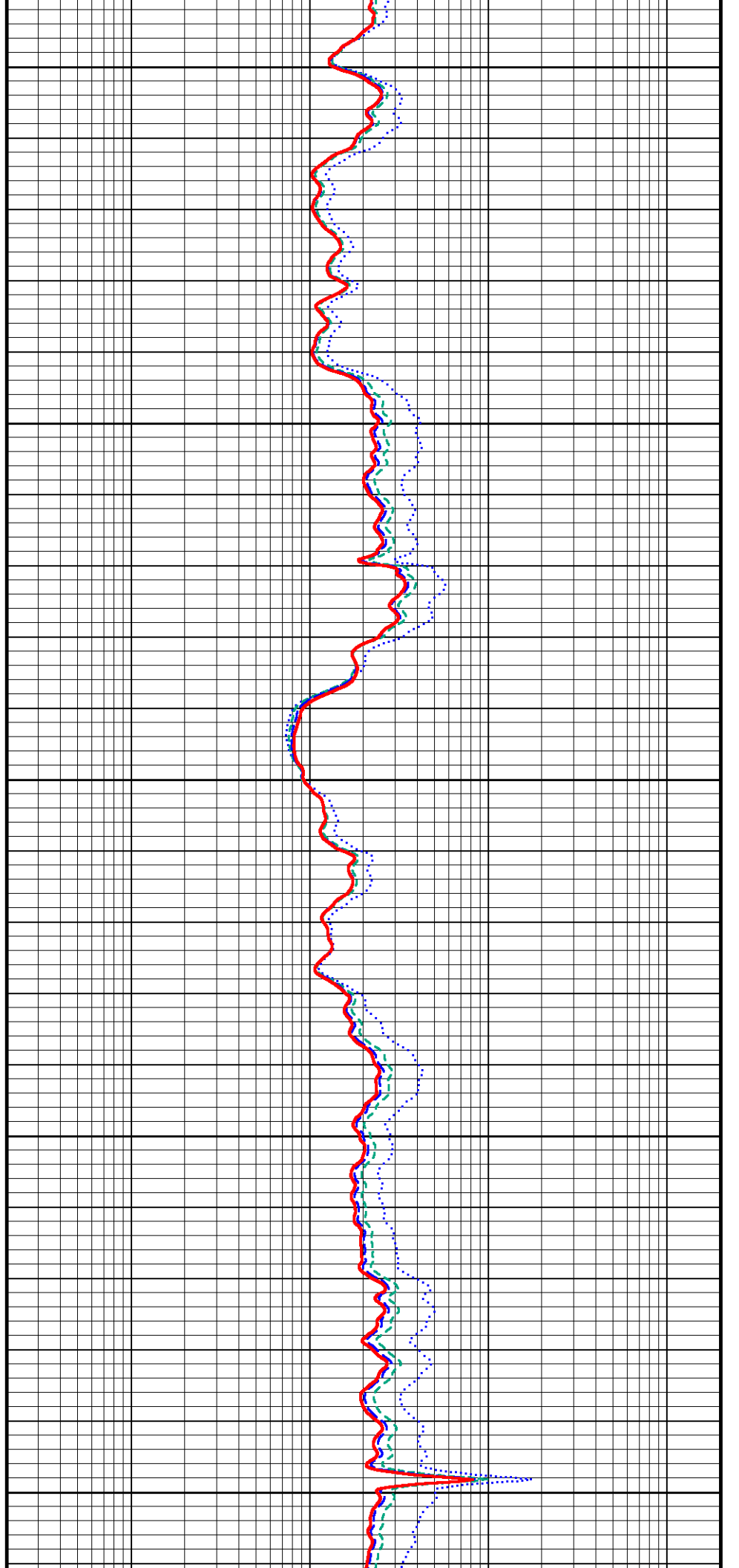
3950

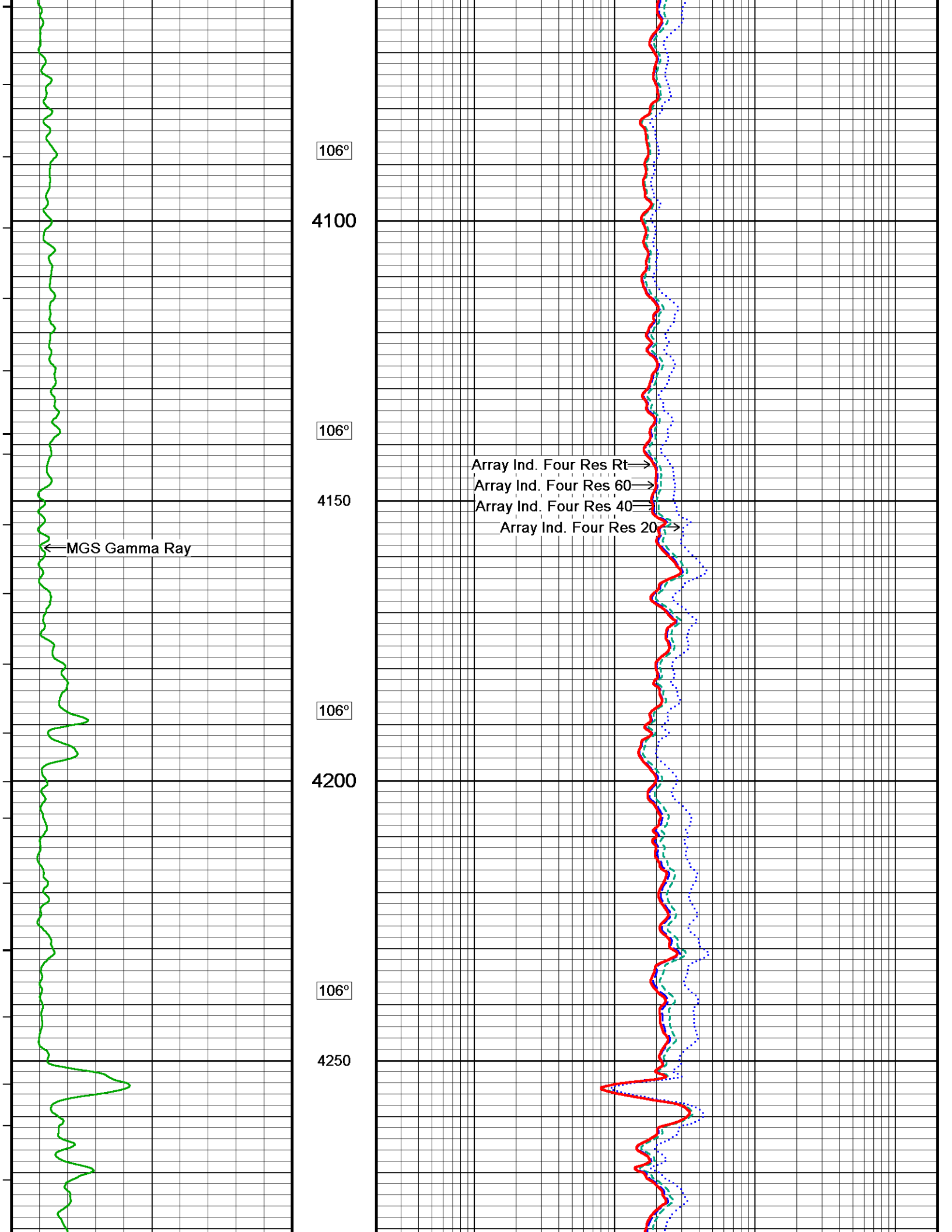
106°

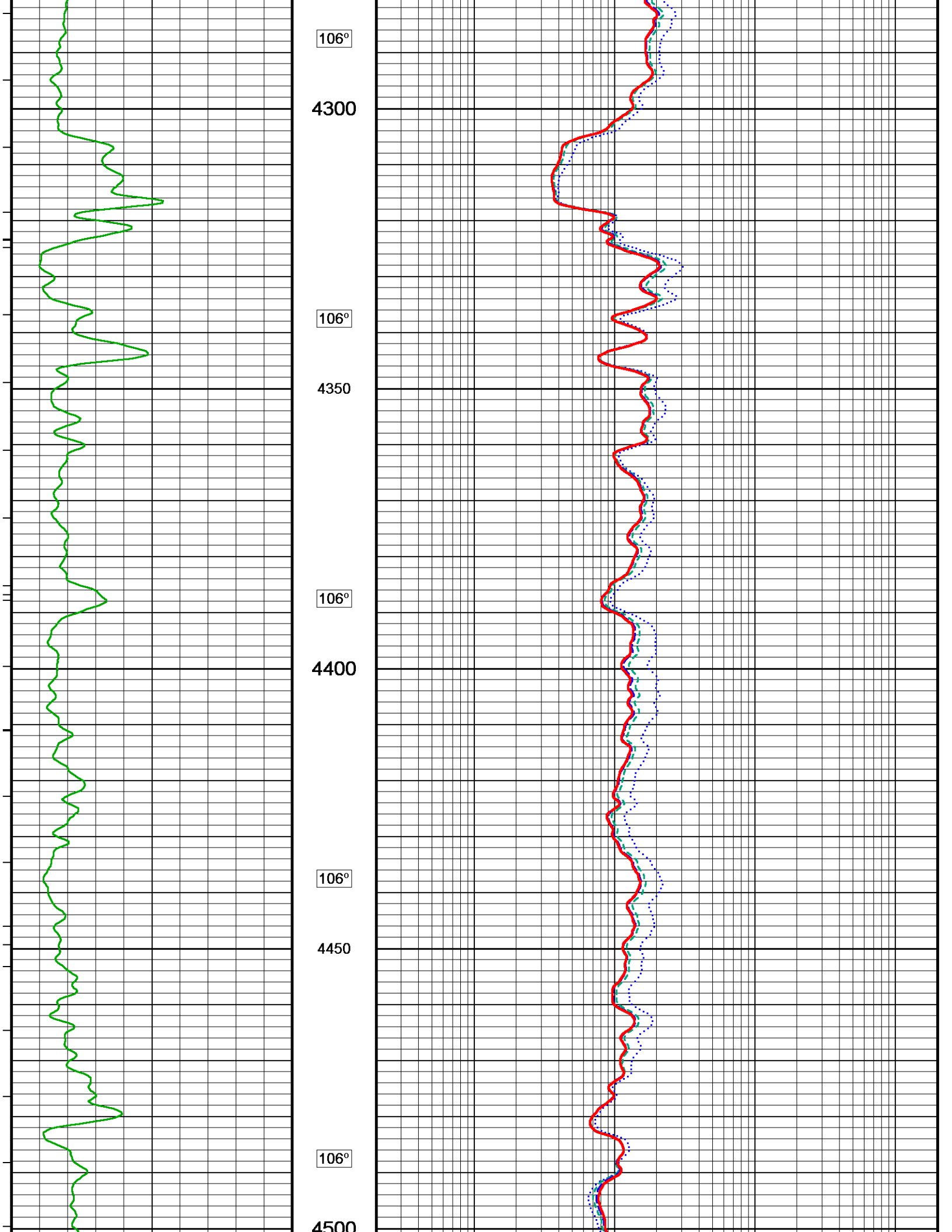
4000

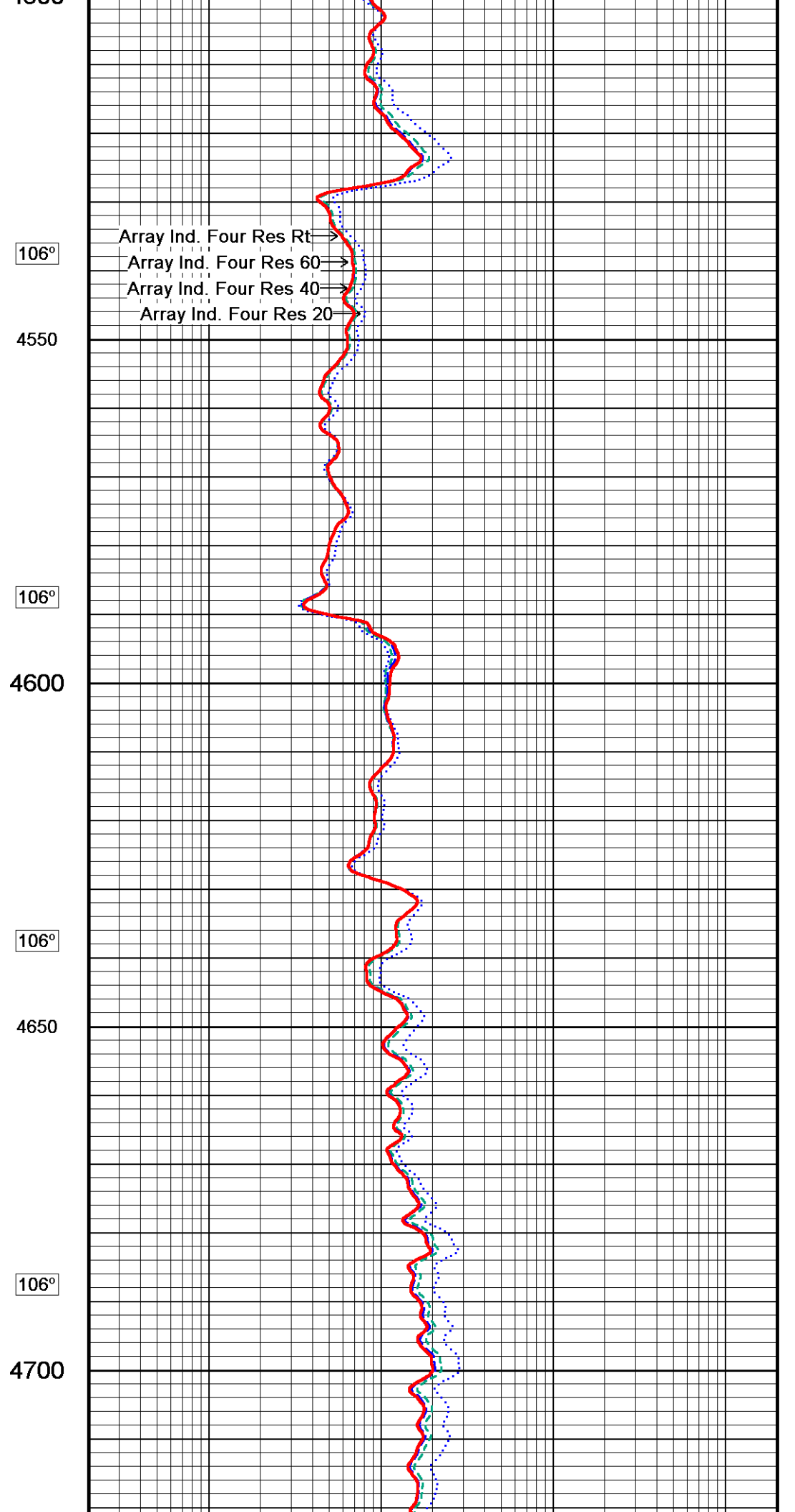
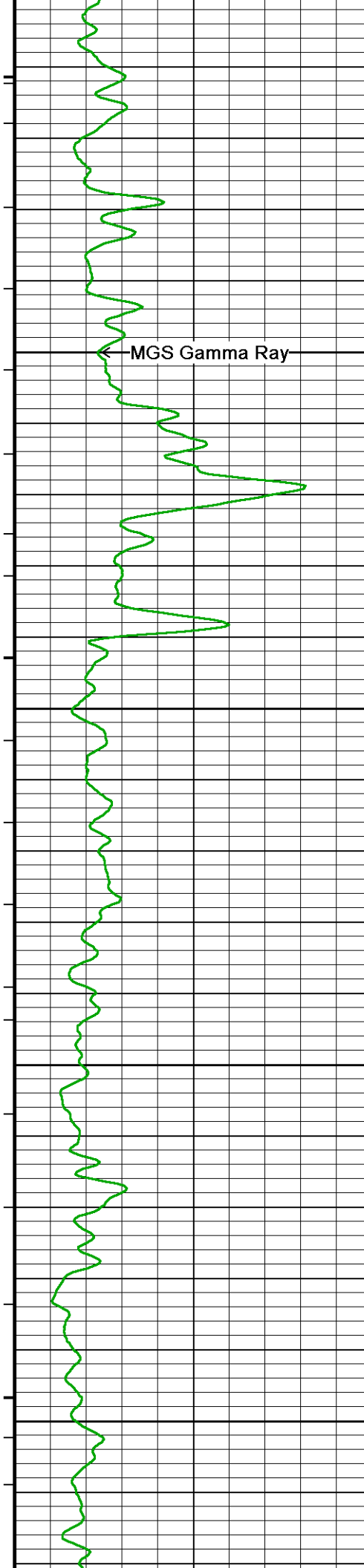
106°

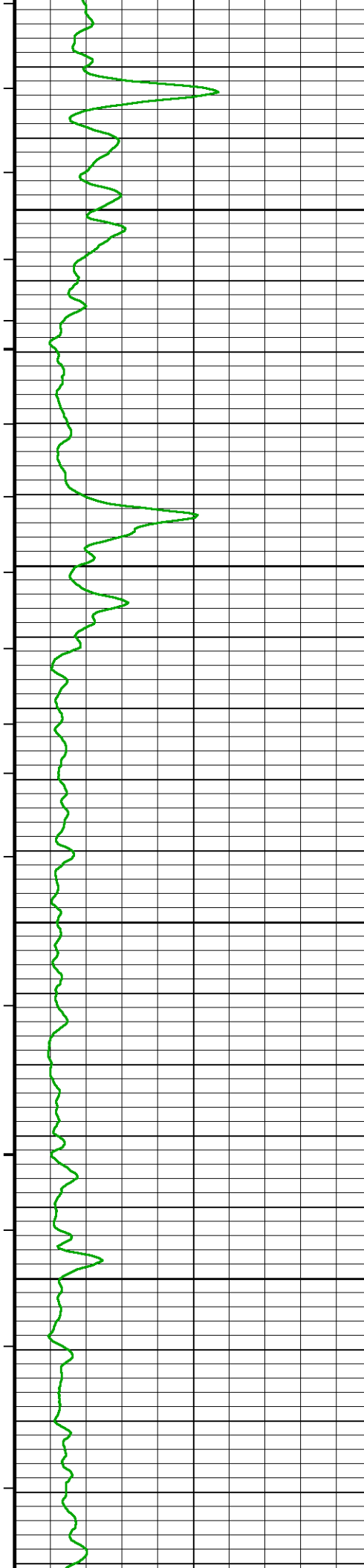
4050











106°

4750

106°

4800

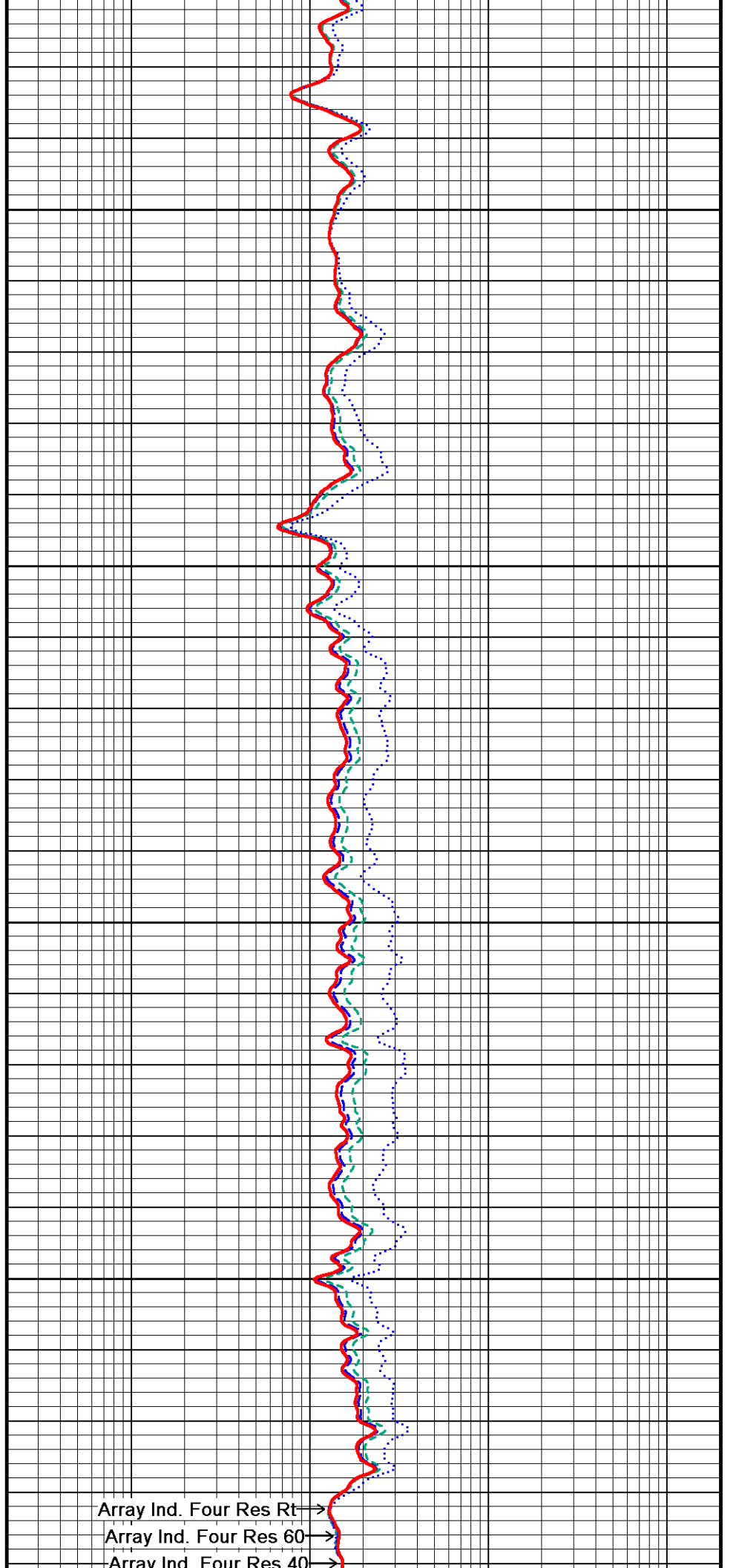
106°

4850

106°

4900

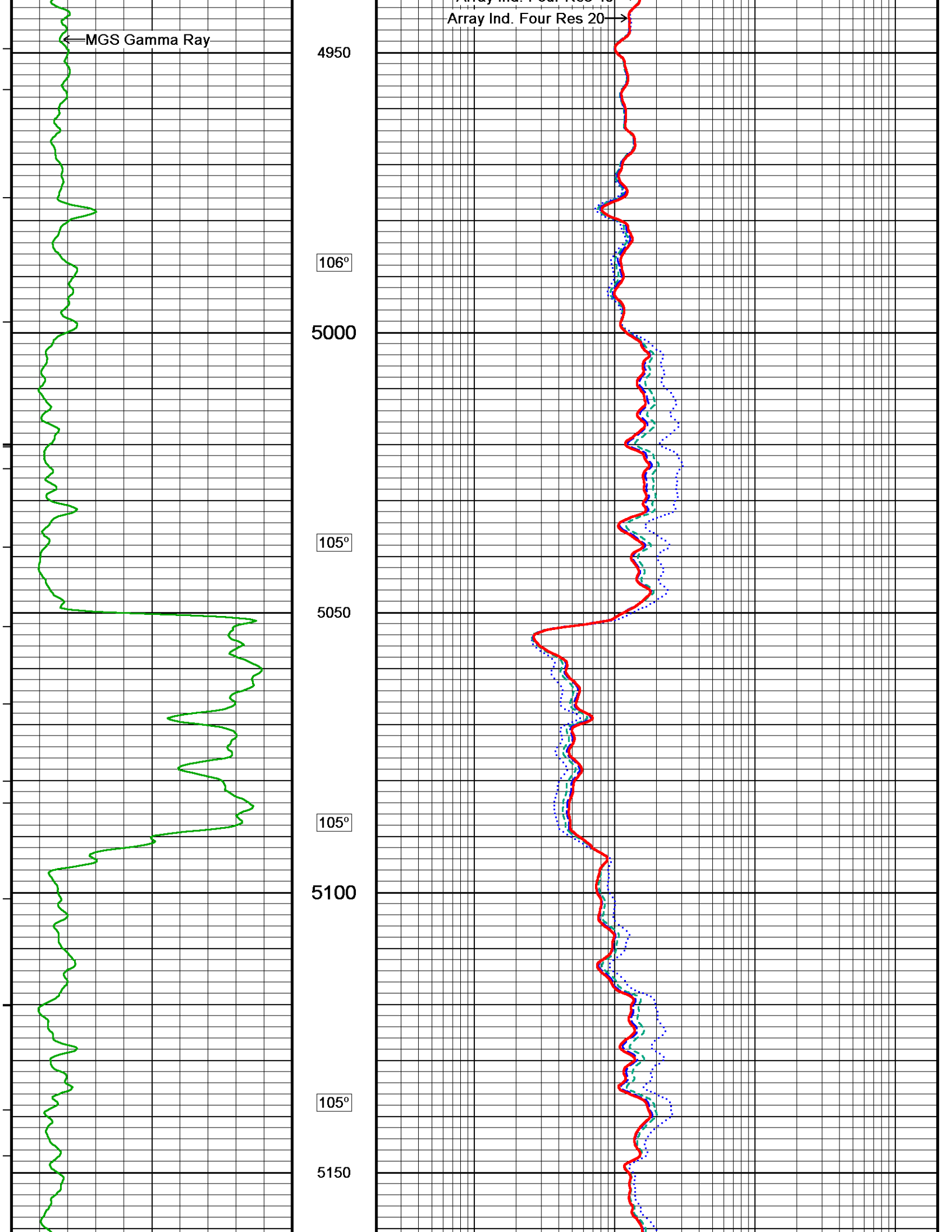
106°

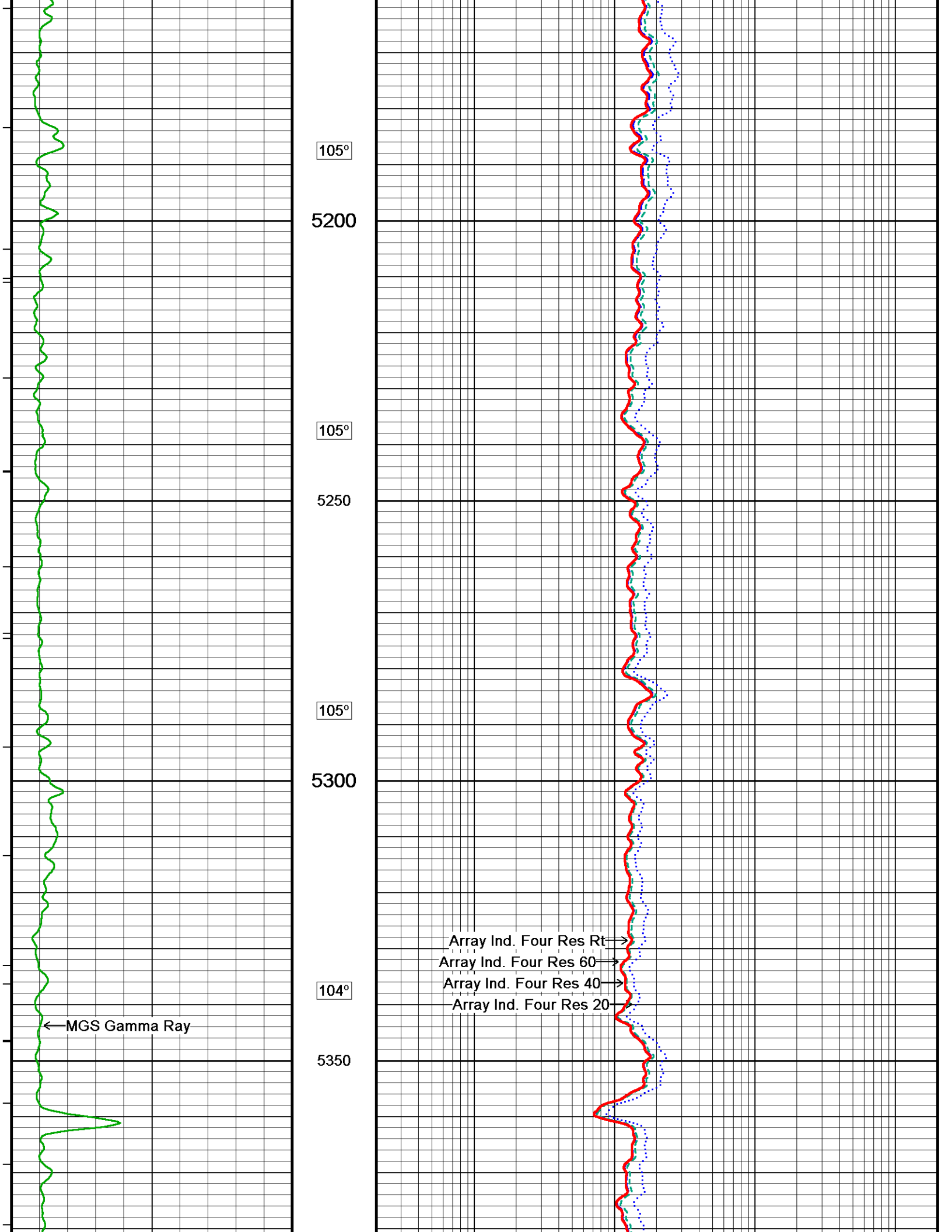


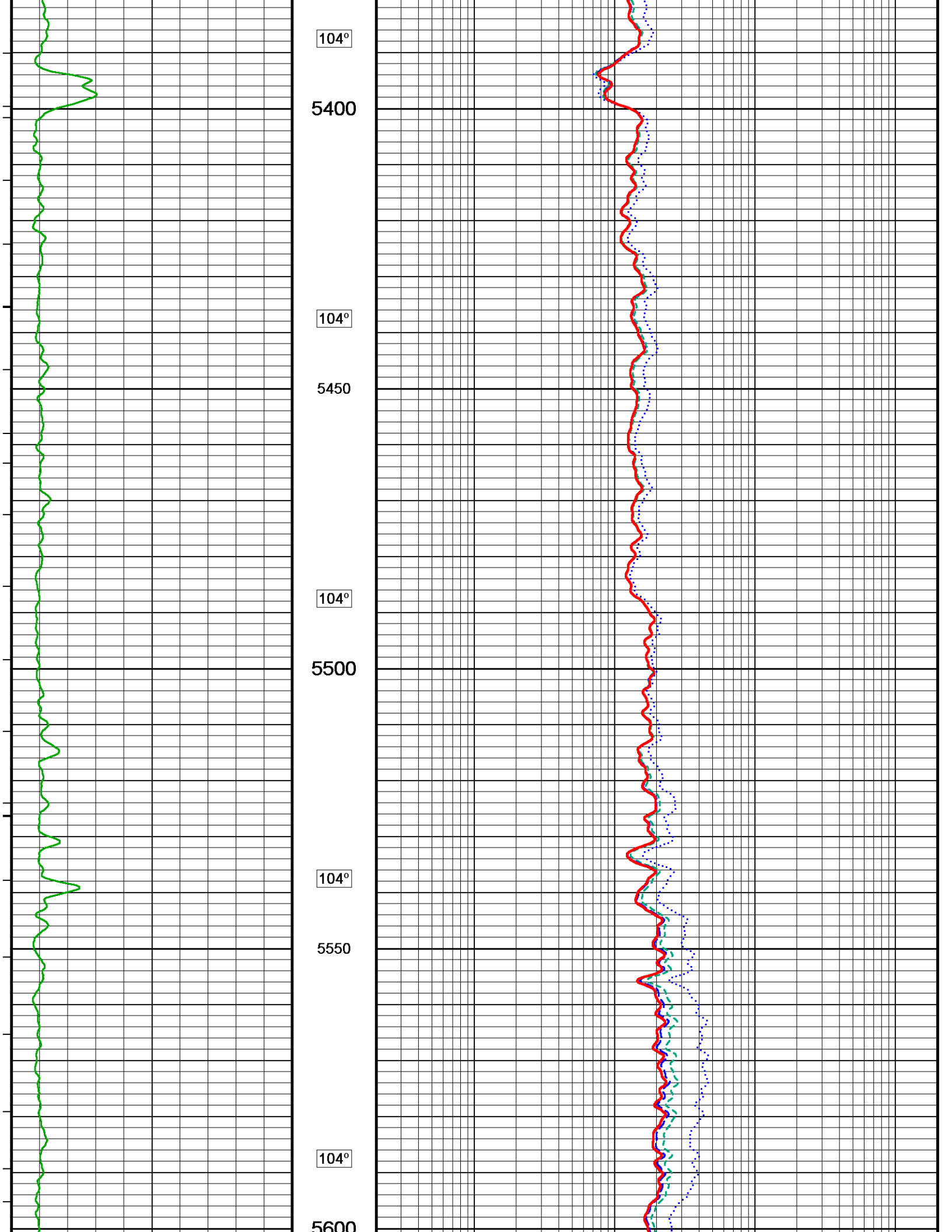
Array Ind. Four Res Rt →

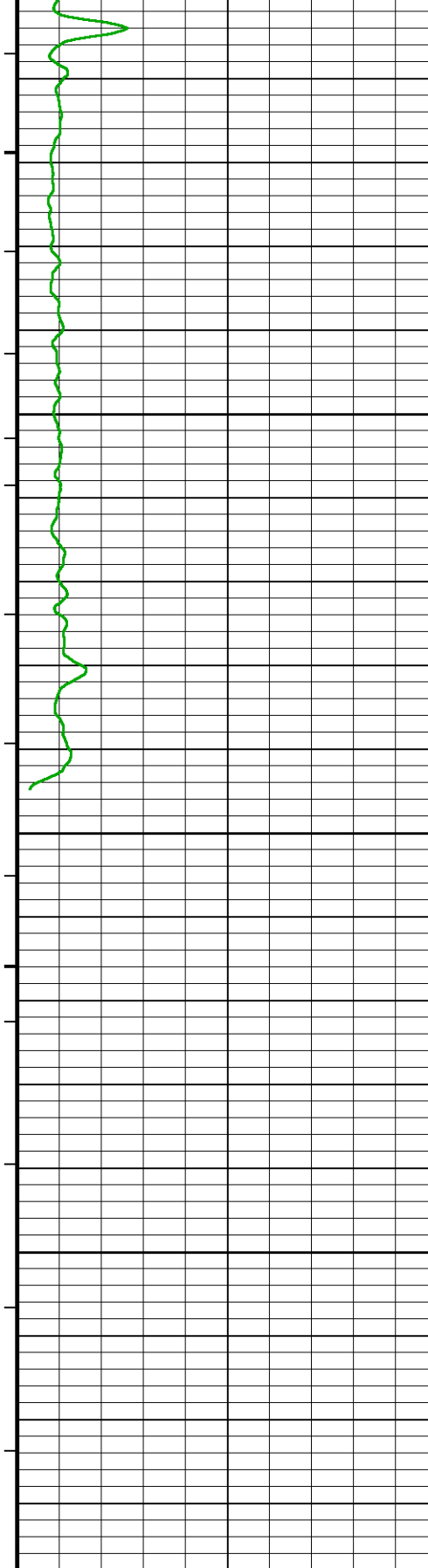
Array Ind. Four Res 60 →

Array Ind. Four Res 40 →

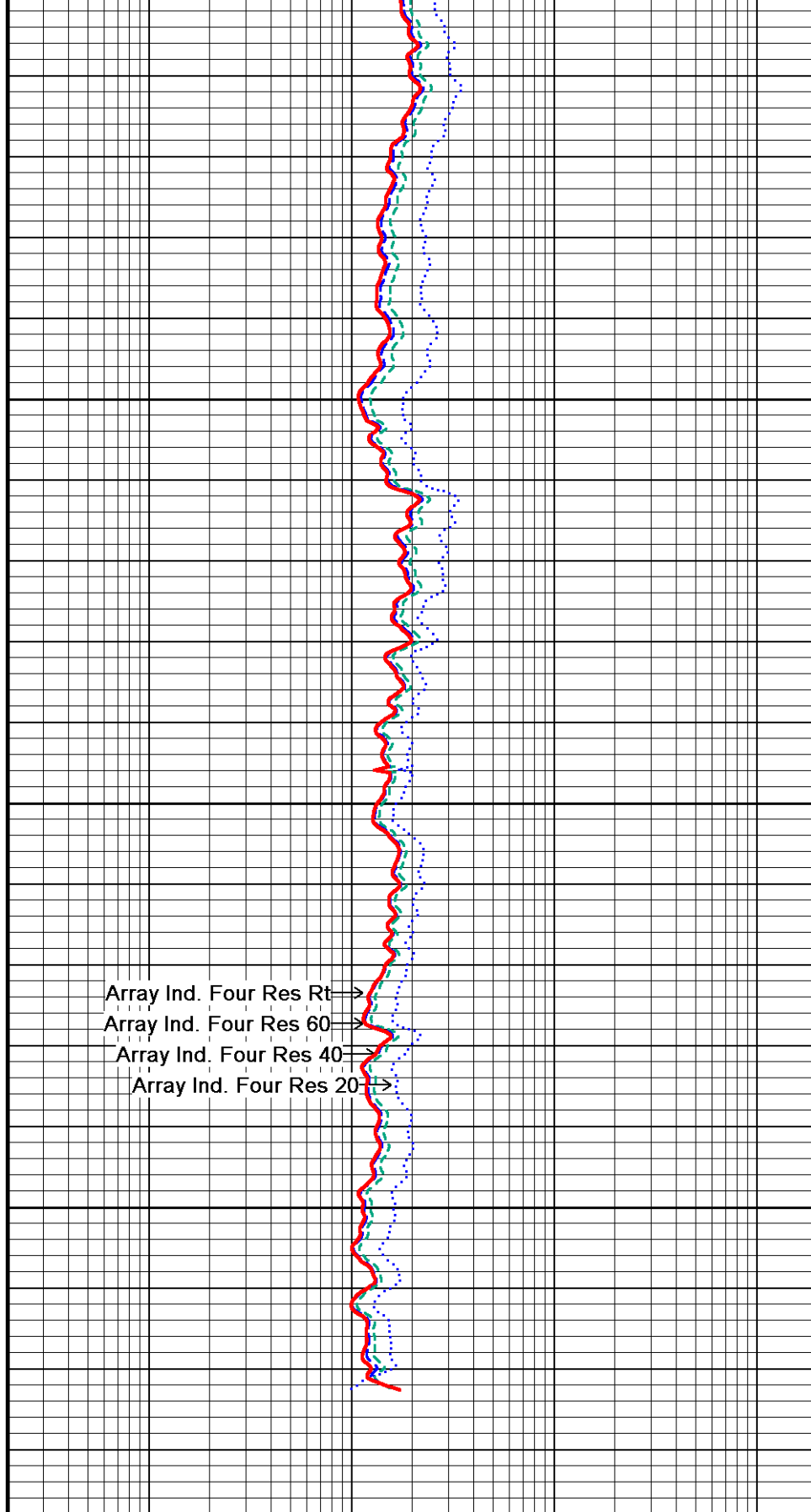








5550
105°
5650
106°
5700
5750
5786
Depth
In
Feet

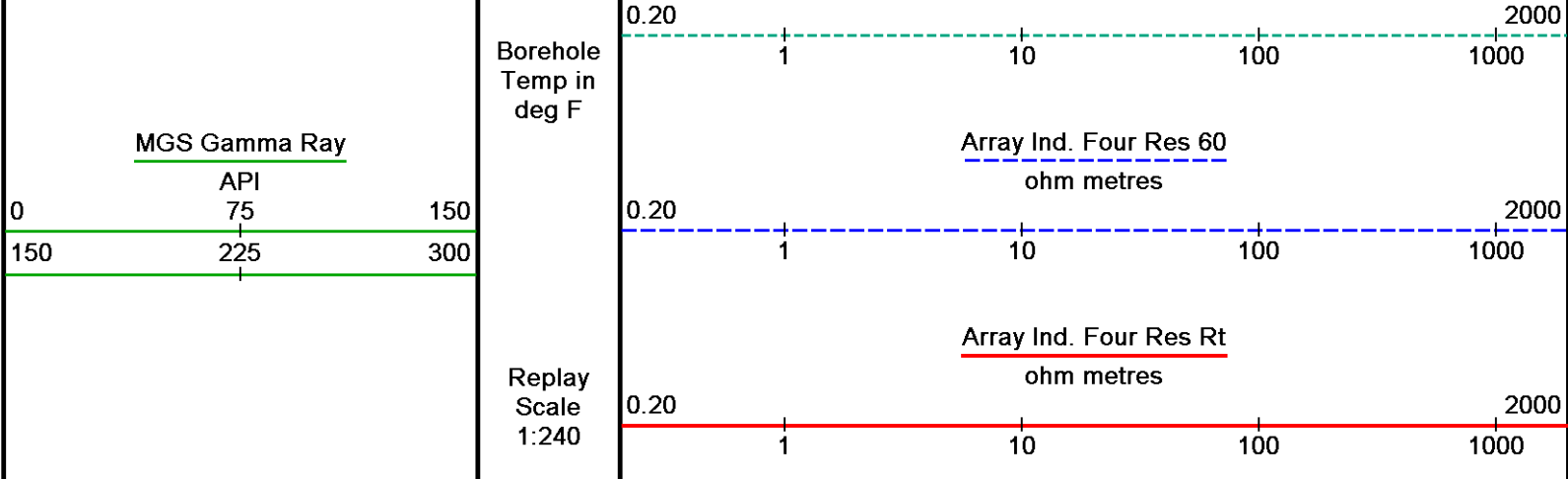


Array Ind. Four Res Rt →
Array Ind. Four Res 60 →
Array Ind. Four Res 40 →
Array Ind. Four Res 20 →

0.20
1 10 100 1000
2000
ohm metres

← Timing Marks
every 60.0 sec

Array Ind. Four Res 40
ohm metres



Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-DEC-2011 16:23
 Filename: G:\Data\Vess McCord A 20H\Mccord A 20H plotted\GOOD RTAP.dta
 Recorded on 22-NOV-2011 23:03
 System Versions: Processed with 11.03.4044 Plotted with 12.03.5032

5 INCH MAIN LOG DSC

BEFORE SURVEY CALIBRATION
 G:\Data\Vess McCord A 20H\Mccord A 20H plotted\GOOD RTAP.dta

General Constants All 000 Last Edited on 23-NOV-2011,11:17

General Parameters

Mud Resistivity	0.800	ohm-metres
Mud Resistivity Temperature	55.000	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	MIE Caliper X	

Rwa Parameters

Porosity used	Limestone Density Por.	
Resistivity used	Array Ind. Four Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0 Field Calibration on 29-MAR-2011 00:00

Reading No	Measured	Calibrated (lbs)
1	15152.07	0.00
2	19175.97	2000.00

MMS Parameters MMS-E.B 167 Last Edited on 21-NOV-2011 19:06

Logging Parameters

Firmware Version	2v40	
Caliper Open On	MAI	
Caliper Open Delay	0.0	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	8.0	

Release Parameters

Pulse Duration Base Level	10.0	seconds
Pulse Duration Transition Time	10.0	seconds
Pulse Duration Status Pulse From	20.0	seconds
Pulse Duration Caliper Close From	55.0	seconds
Pulse Duration Caliper Open From	60.0	seconds
Pulse Duration Release Pulse From	110.0	seconds
Pulse Duration Release Pulse To	280.0	seconds
Pulse Release Duration	240.0	seconds
Pulse Discriminator Pressure Band	32.0	seconds
Pulse Pressure Discriminator	106.0	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	30.0	seconds
Caliper Close To	0.0	seconds
Caliper Open To	70.0	seconds

Configuration

MMS,MGS,MDN,MPD,MPD,MIM,MIE,MAI

Gamma Calibration MGS-C.J 136

Field Calibration on 17-NOV-2011 08:02

	Measured	Calibrated (API)
Background	40	28
Calibrator (Gross)	1043	724
Calibrator (Net)	1004	696

Gamma Constants MGS-C.J 136

Last Edited on 22-NOV-2011,23:02

Gamma Calibrator Number	36	
Mud Density	1.10	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Calibration MGS-C.J 136

Field Calibration on 17-NOV-2011,08:02

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MGS-C.J 136

Last Edited on

Pre-filter Length	11
-------------------	----

SP Calibration MGS-C.J 136

Field Calibration on 30-MAR-2011 09:03

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

Neutron Calibration MDN-B.J 388

Base Calibration on 12-OCT-2011 08:45
Field Check on 17-NOV-2011 08:09

Base Calibration					
	Measured		Calibrated (cps)		
	Near	Far	Near	Far	
Ratio	2961	90	3714	110	
	33.000		33.764		
Field Calibrator at Base					
			Calibrated (cps)		
Ratio			2455	3622	
			0.678		
Field Check					
			Calibrated (cps)		
Ratio			2497	3633	
			0.687		

Neutron Constants MDN-B.J 388

Last Edited on 18-NOV-2011,13:52

P31112B

Neutron Source Id	P31112B		
Neutron Jig Number	N639		
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	Constant Value		
Formation Pressure	0.00	kpsi	
Temperature Source	None		
Temperature	20.00	degrees F	
Mud Salinity	0.00	kppm	
Salinity Correction	0		
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		

Magnetometer Parameters MIE-A.A 209

Date Of Last Magnetometer Calibration	26-NOV-2010,12:01		
	X Magnetometer	Y Magnetometer	Z Magnetometer
Slope	-1.000000	-1.001951	-1.007691
Offset	0.007782	-0.016800	0.011730

Magnetometer Constants MIE-A.A 209

Last Edited on

Magnetometer Calibrator Number	000
--------------------------------	-----

Accelerometer Parameters MIE-A.A 209

Date Of Last Accelerometer Calibration	25-NOV-2010,12:19		
	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.113214	-1.109979	-1.101653
Offset	0.005467	0.005399	0.010368

Accelerometer Constants MIE-A.A 209

Last Edited on 25-NOV-2010,12:25

Accelerometer Calibrator Number	000
---------------------------------	-----

Accelerometer Temperature Characterisation

X Accelerometer

Serial Number	826			
Calibration Date	01-Jan-1998			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	2.32377e-005	-1.87334e-008	9.07324e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.71389e-004	4.55326e-007	4.58364e-010

Y Accelerometer

Serial Number	617			
Calibration Date	11-May-2008			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	1.76675e-005	6.93464e-010	2.98691e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.56882e-004	5.72598e-007	2.37496e-010

Z Accelerometer

Serial Number	844			
Calibration Date	01-Jan-1998			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	-1.21769e-005	-1.46867e-008	-6.44015e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.73539e-004	4.65657e-007	2.88996e-010

Caliper Calibration MIE-A.A 209

Base Calibration on 25-NOV-2010 07:56
Field Calibration on 17-NOV-2011 07:55

Base Calibration

Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)
1	26963	26793	5.96
2	36961	37191	7.97
3	46959	47159	9.94

3	46401	44863	9.84
4	58072	58409	11.91
5	0	0	0.00

Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	24829	25688	24937	24692	5.96
2	33487	34230	33721	33433	7.97
3	40559	41186	42962	42856	9.84
4	51771	52426	51758	51697	11.91
5	0	0	0	0	0.00

Field Calibration					
	Measured Pads 1-5 Caliper(in)	Measured Pads 3-7 Caliper(in)	Actual Caliper(in)		
	6.06	5.97	5.96		
	Measured Pad 2 Caliper(in)	Measured Pad 4 Caliper(in)	Measured Pad 6 Caliper(in)	Measured Pad 8 Caliper(in)	Actual Caliper(in)
	3.01	2.98	3.02	3.04	5.96

Caliper Constants MIE-A.A 209			Last Edited on 25-NOV-2010,07:57		
Caliper Difference for BRKT	0.120	inches			

Navigation Constants MIE-A.A 209			Last Edited on 17-NOV-2011,09:51		
Magnetic Declination	4.80	degrees	East		

Imager Pad Check MIE-A.A 209				Field Check on	
Pad 1	Pad Not Tested	Pad 5	Pad Not Tested		
Pad 2	Pad Not Tested	Pad 6	Pad Not Tested		
Pad 3	Pad Not Tested	Pad 7	Pad Not Tested		
Pad 4	Pad Not Tested	Pad 8	Pad Not Tested		

Compact Micro Imager Constants MIE-A.A 209			Last Edited on 17-NOV-2011,09:51		
Sonde Configuration	Imager Mode	degrees			
Arm-Pad Kit	0				
Centre Pad 1 Rotational Offset	0.00				
Image/Borehole Ovality Reference	Azimuth of Pad 1	degrees			
Non Active Buttons	Omit	feet			
Search Angle	45.00	feet			
Correlation Interval	3.28	mAmp			
Correlation Step	1.64	mAmp			
Current Offset	0.0000				
Squasher Start	0.0500				
Image Processing	Enabled				

High Resolution Temperature Calibration MAI-B.J 391			Field Calibration on 19-OCT-2011 10:50		
	Measured	Calibrated(Deg F)			
Lower	10.00	50.00			
Upper	100.00	212.00			

High Resolution Temperature Constants MAI-B.J 391			Last Edited on		
Pre-filter Length	11				

Induction Calibration MAI-B.J 391			Base Calibration on 19-OCT-2011 10:50		
			Field Check on 17-NOV-2011 07:39		
Base Calibration					
Test Loop Calibration					
Channel	Measured		Calibrated (mmho/m)		
	Low	High	Low	High	
1	17.1	473.5	9.3	966.2	
2	6.0	381.9	7.6	821.4	
3	3.8	262.4	5.2	566.0	
4	2.3	133.8	2.6	279.2	
Array Temperature	76.6	Deg F			
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	11.7	3820.4	
2	0.0	0.0	29.8	3516.4	

2	0.0	0.0	25.0	3310.4
3	0.0	0.0	27.0	3009.6
4	0.0	0.0	18.4	2063.4
Deep	0.0	0.0	15.2	1956.4
Medium	0.0	0.0	40.3	3959.2
Shallow	0.0	0.0	46.4	5212.7
Array Temperature		0.0	52.3	Deg F

Induction Constants MAI-B.J 391

Last Edited on 23-NOV-2011,10:03

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.	MGS 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-C.J 393

Base Calibration on 14-NOV-2011 06:09

Field Calibration on 17-NOV-2011 07:45

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	14534	4.01
2	24031	5.96
3	32482	7.98
4	40112	9.86
5	48560	11.88
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	6.00	5.96

Photo Density Calibration MPD-C.J 393

Base Calibration on 19-OCT-2011 09:31

Field Check on 17-NOV-2011 07:52

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	58016	27308	59869	31110
Reference 2	24483	2694	24557	2522

Field Check at Base 1260.5 1380.6

Field Check 1245.1 1363.2

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	235	1137		
Reference 1	23358	57816	0.408	0.369
Reference 2	6927	24347	0.288	0.271

Field Check at Base 235.4 1137.5

Field Check 230.6 1122.1

Density Constants MPD-C.J 393

Last Edited on 22-NOV-2011,23:02

Density Source Id p31112b
 Nylon Calibrator Number 18006
 Aluminium Calibrator Number 18006
 Density Shoe Profile 4 inch
 Caliper Source for Processing Density Caliper
 PE Correction to Density Not Applied
 Mud Density 1.10 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 0.03 gm/cc
 CRCT 0.00 gm/cc
 Density Z/A Correction Hybrid

Matrix density (gm/cc)	Depth (m)
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	0.00

DOWNHOLE EQUIPMENT

G:\Data\Vess McCord A 20H\Mccord A 20H plotted\TC CMI TOOLSTRING.dta

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

EMPTY EXT BATTERY
 MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

EMPTY EXT BATTERY
 MLK-A 3 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

SKJ-D Compact Knuckle Joint
 SKJ-D 30 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MBS-G.A 200v Compact Battery Sub
 MBS-G.A 112 LG: 16.66 ft WT: 132.3 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



Compact Tool Isolator sub.
MTI-B.A 63 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

SKJ-E.A Compact Knuckle Joint
SKJ-E.A 140 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 208 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-A.A Compact Inline Bowspring sub
MIS-A.A 259 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
MDN-B.J 388 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-A.A Compact Inline Bowspring sub
MIS-A.A 277 LG: 5.70 ft WT: 33.1 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

SKJ-E.A Compact Knuckle Joint
SKJ-E.A 207 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 572 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 479 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-A.A Compact Inline Bowspring sub
MIS-A.A 62 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section
MIM-A.A 209 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

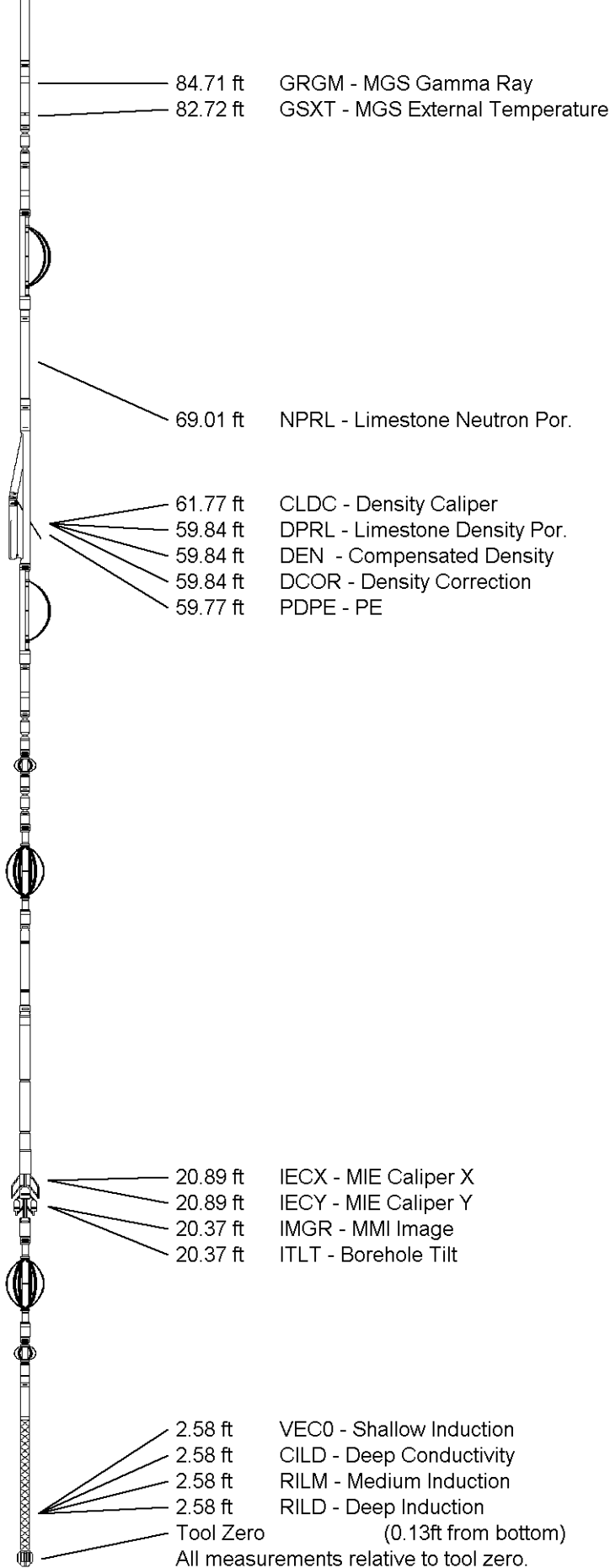
Compact MMI Electrode Section
MIE-A.A 209 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 590 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

MIS-E.A Compact Inline Standoff sub
MIS-E.A 184 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction
MAI-B.J 391 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 144.53 ft Weight: 919.3 lb



COMPANY
WELL
FIELD

VESS OIL CORP.
MCCORD 'A' 20H
BEMIS SHUTTS

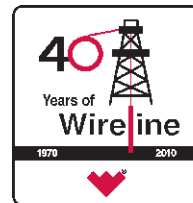
PROVINCE/COUNTY ELLIS
 COUNTRY/STATE USA / KANSAS

Elevation Kelly Bushing 2100.60 feet
 Elevation Drill Floor 2099.00 feet
 Elevation Ground Level 2091.00 feet

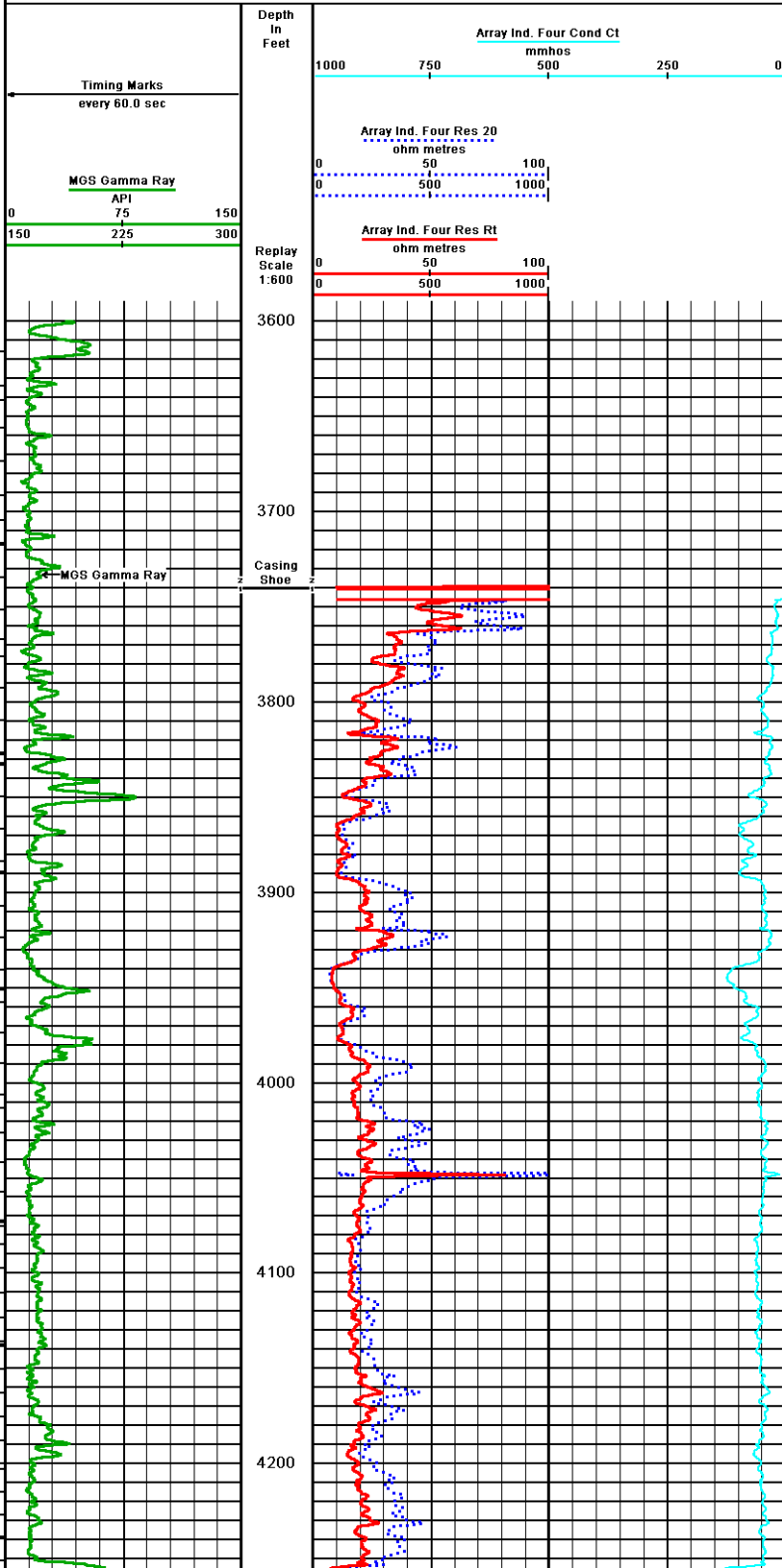
First Reading 5780.00 feet
 Depth Driller 5805.00 feet
 Depth Logger 5805.00 feet



CML MESSENGER SHUTTLE
 ARRAY INDUCTION
 ELECTRIC LOG



1 INCH MAIN LOG DSC
 Depth Based Data - Maximum Sampling Increment: 10.0cm
 Plotted on 02-DEC-2011 16:23
 Filename: G:\Data\Vess McCord A 20HM\ccord A 20H plotted\GOOD RTAP.dta
 Recorded on 22-NOV-2011 23:03
 System Versions: Processed with 11.03.4044 Plotted with 12.03.5032



Timing Marks every 60.0 sec

MGS Gamma Ray

API	75	150
	225	300

Replay Scale 1:600

Depth In Feet

3600

3700

Casing Shoe

3800

3900

4000

4100

4200

Array Ind. Four Cond Ct

1000 750 500 250 0

mmhos

Array Ind. Four Res 20

ohm metres

0 50 100

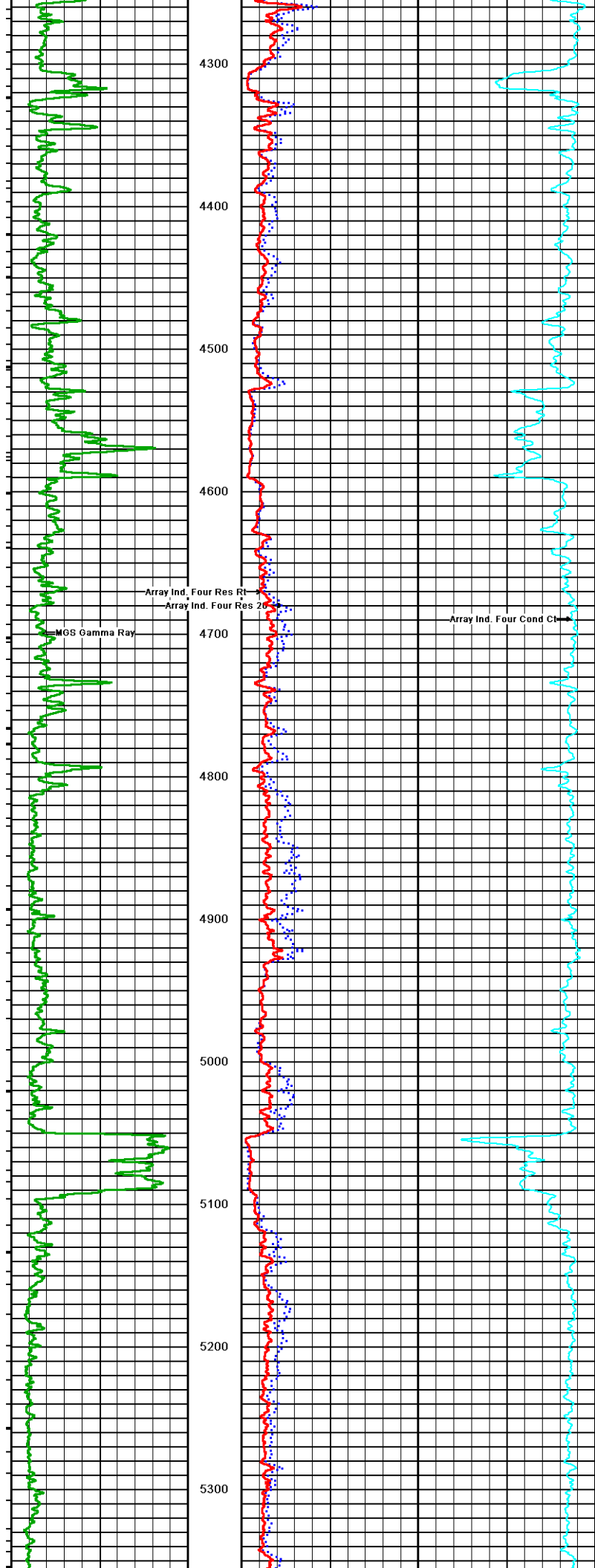
500 1000

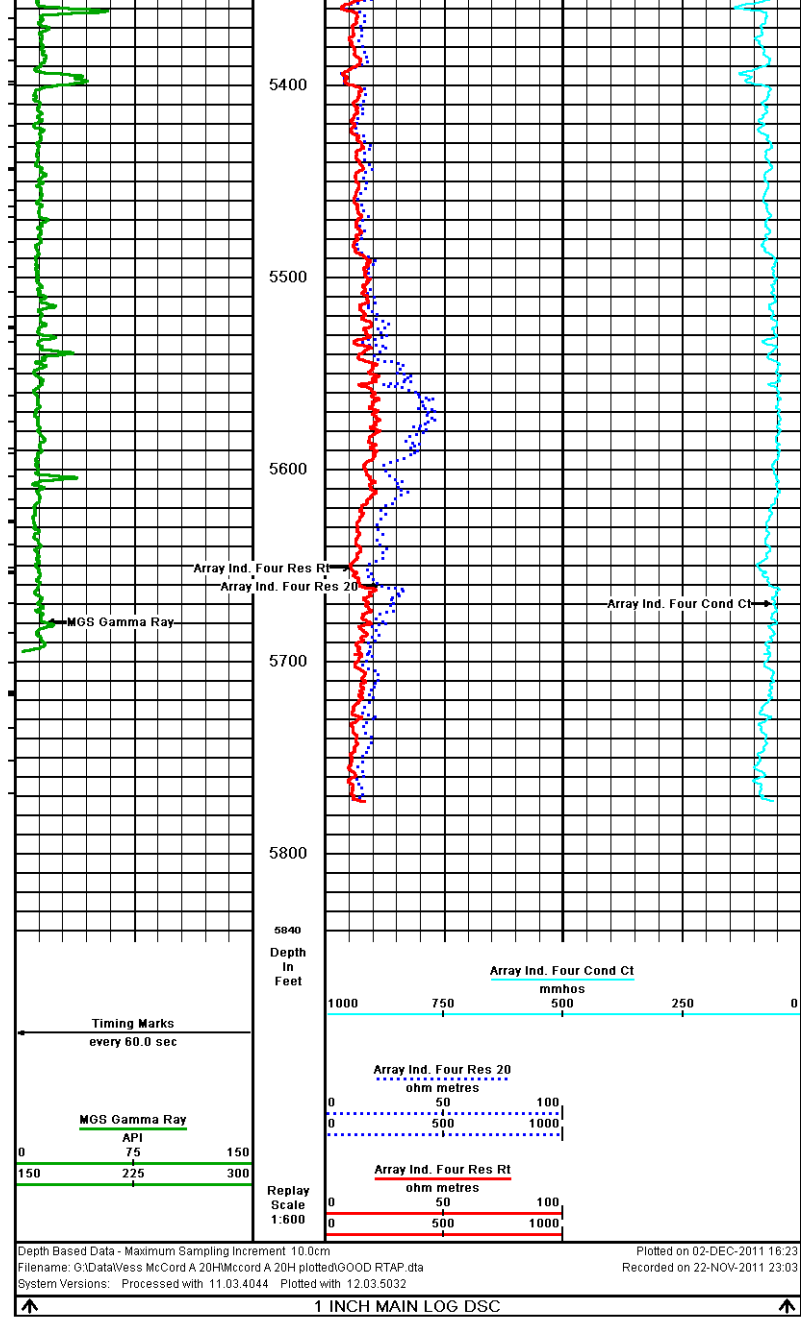
Array Ind. Four Res Rt


ohm metres

0 50 100

500 1000





COMPANY	VESS OIL CORP.				
WELL	MCCORD 'A' 20H				
FIELD	BEMIS SHUTTS				
PROVINCE/COUNTY	ELLIS				
COUNTRY/STATE	USA / KANSAS				
Elevation Kelly Bushing	2100.00	feet	First Reading	5780.00	feet
Elevation Drill Floor	2099.00	feet	Depth Driller	5805.00	feet
Elevation Ground Level	2091.00	feet	Depth Logger	5805.00	feet
		CML MESSENGER SHUTTLE ARRAY INDUCTION ELECTRIC LOG		