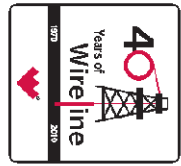




Weatherford

COMPOSITE LOG OF ALL SERVICES

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
 API Number **15-051-26218.010**
 Permit Number

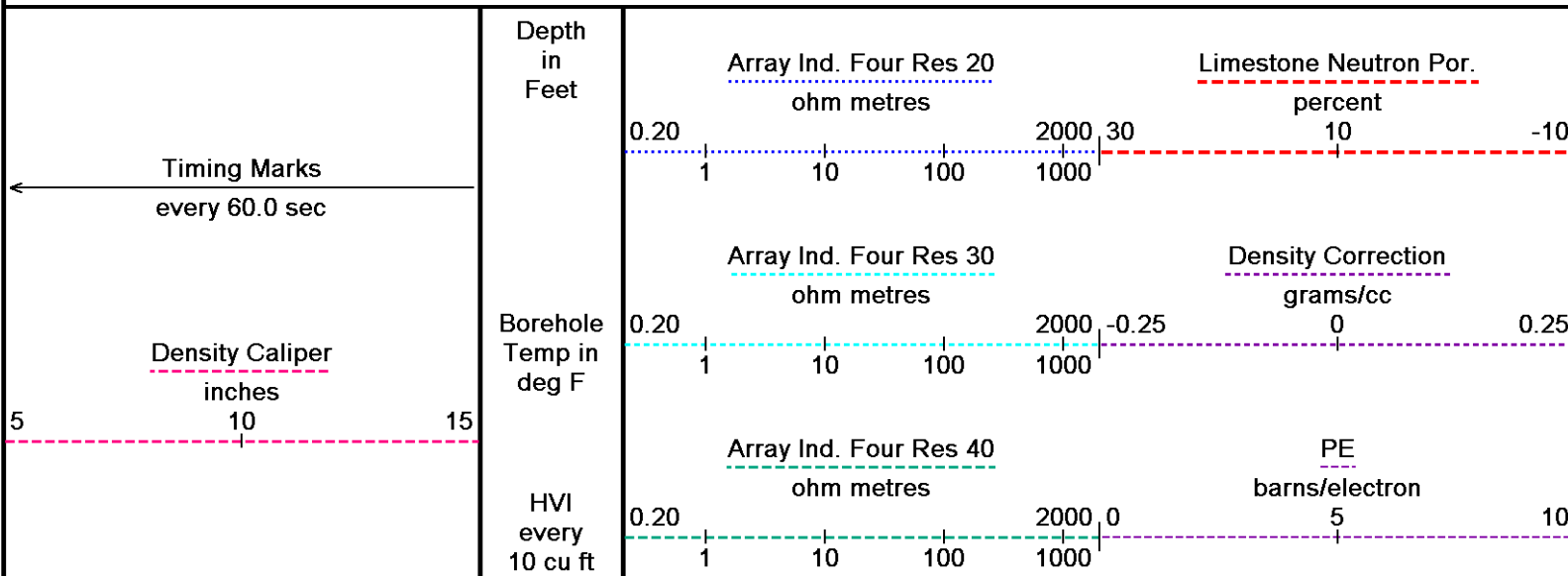
Permanent Datum G.L., Elevation 2091 feet
 Log Measured From K.B. @ 9.6 FEET above Permanent Datum
 Drilling Measured From K.B.

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	5717.00 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

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.

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-DEC-2011 16:20
 Filename: G:\Data\Vess McCord A 20HMccord 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

0	API	150
	75	
150	225	300

Bit Size

5	inches	15
	10	

Annular
Integral
every
10 cu ft

Replay
Scale
1:240

.3738,

3750

105°

3800

400

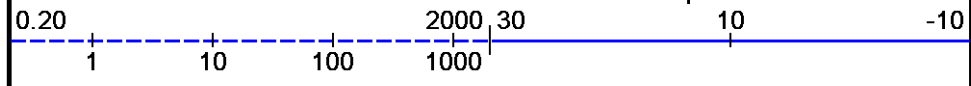
106°

3850

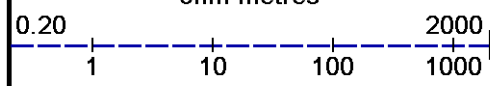
106°

Array Ind. Four Res 60
ohm metres

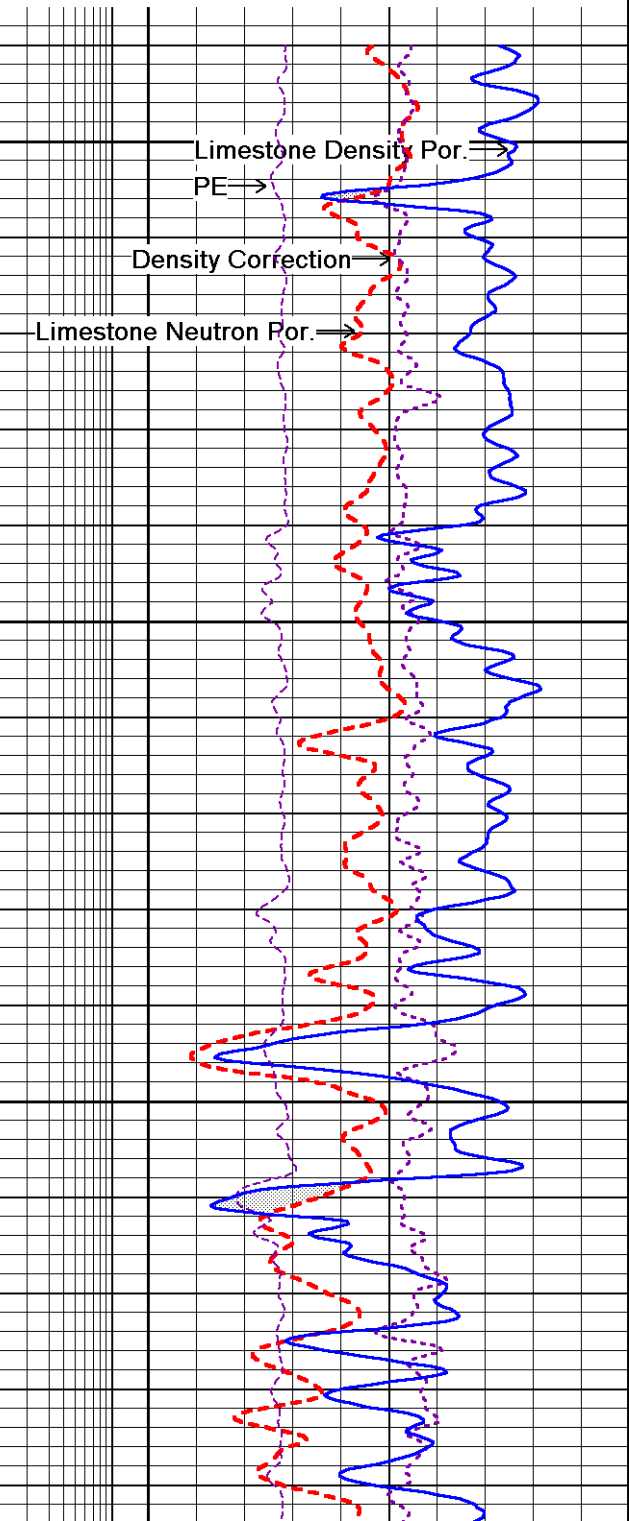
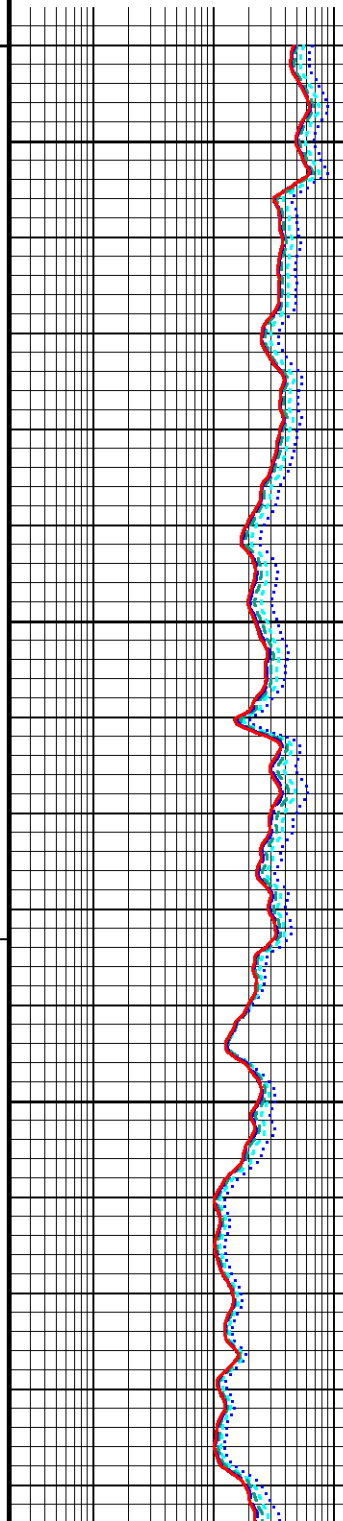
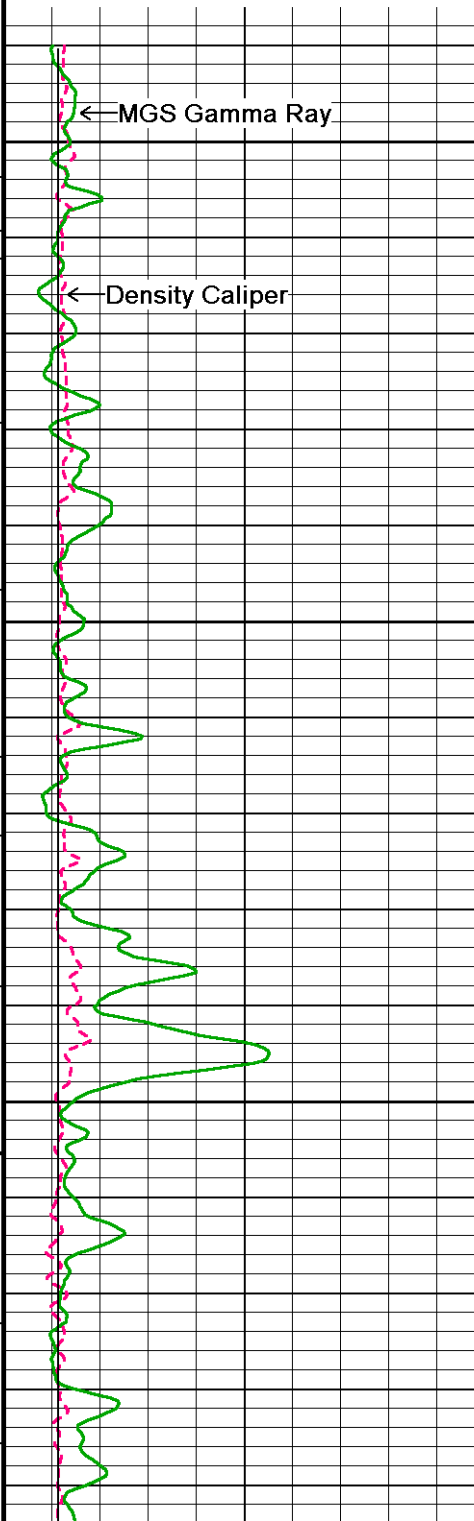
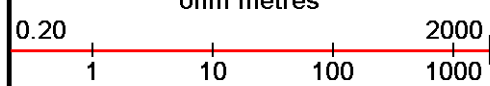
Limestone Density Por.
percent

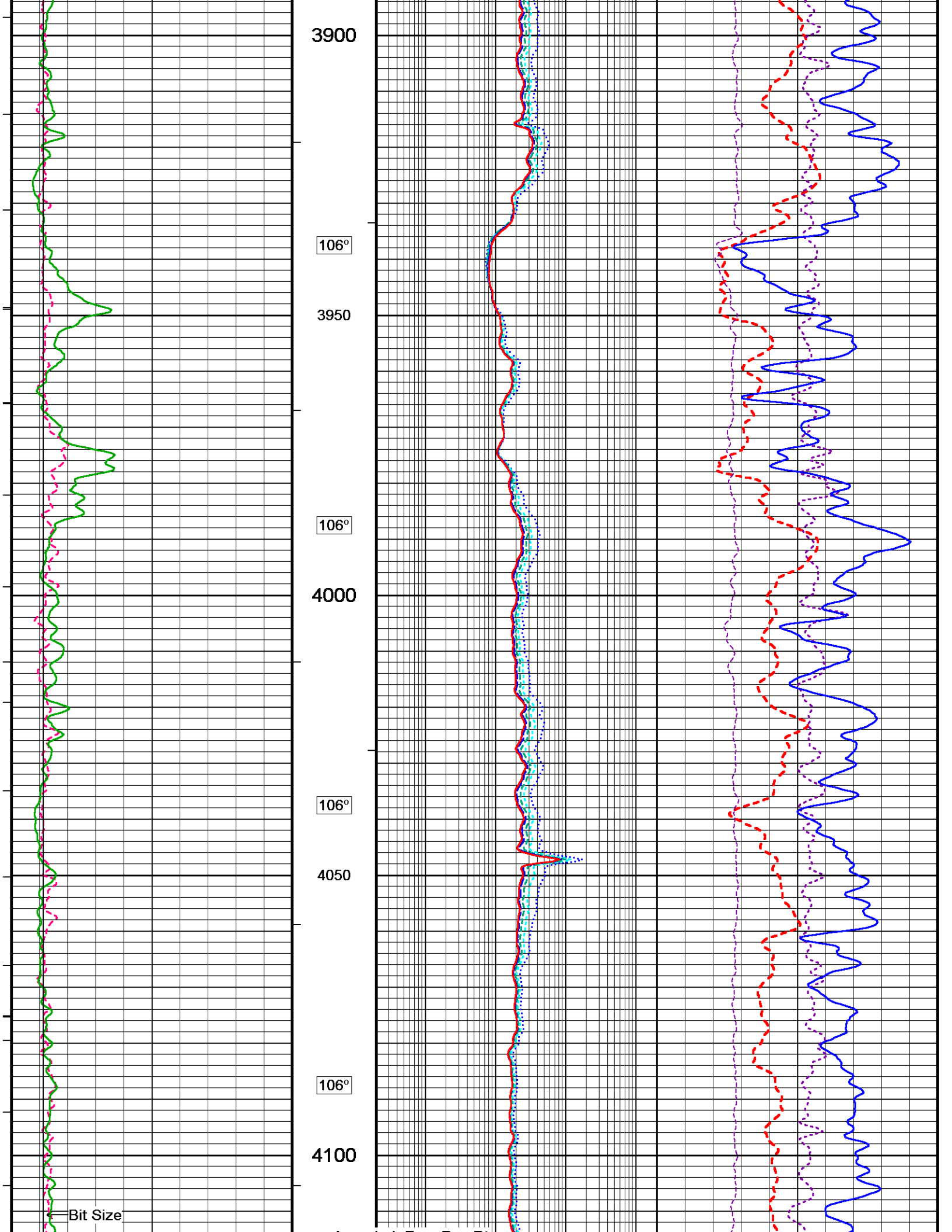


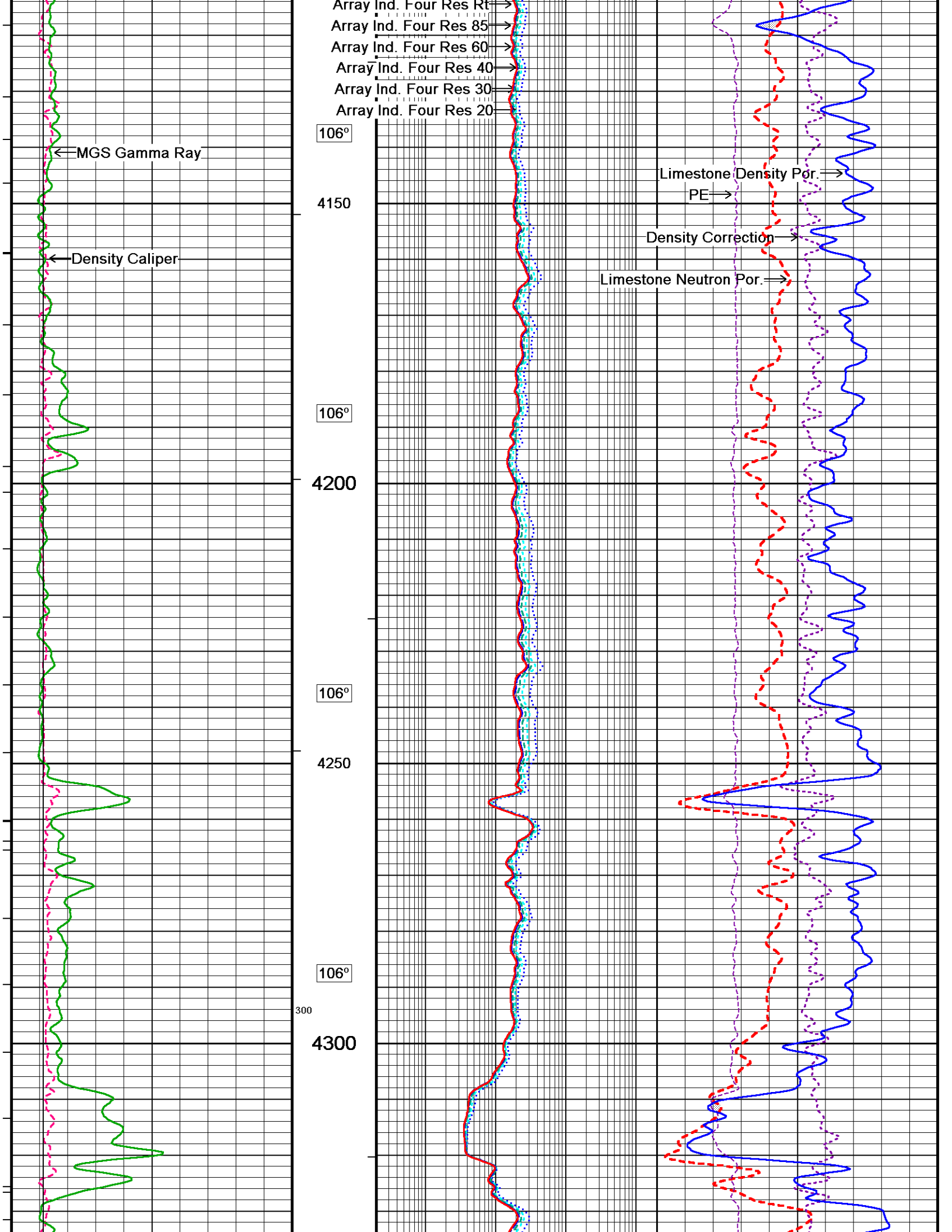
Array Ind. Four Res 85
ohm metres

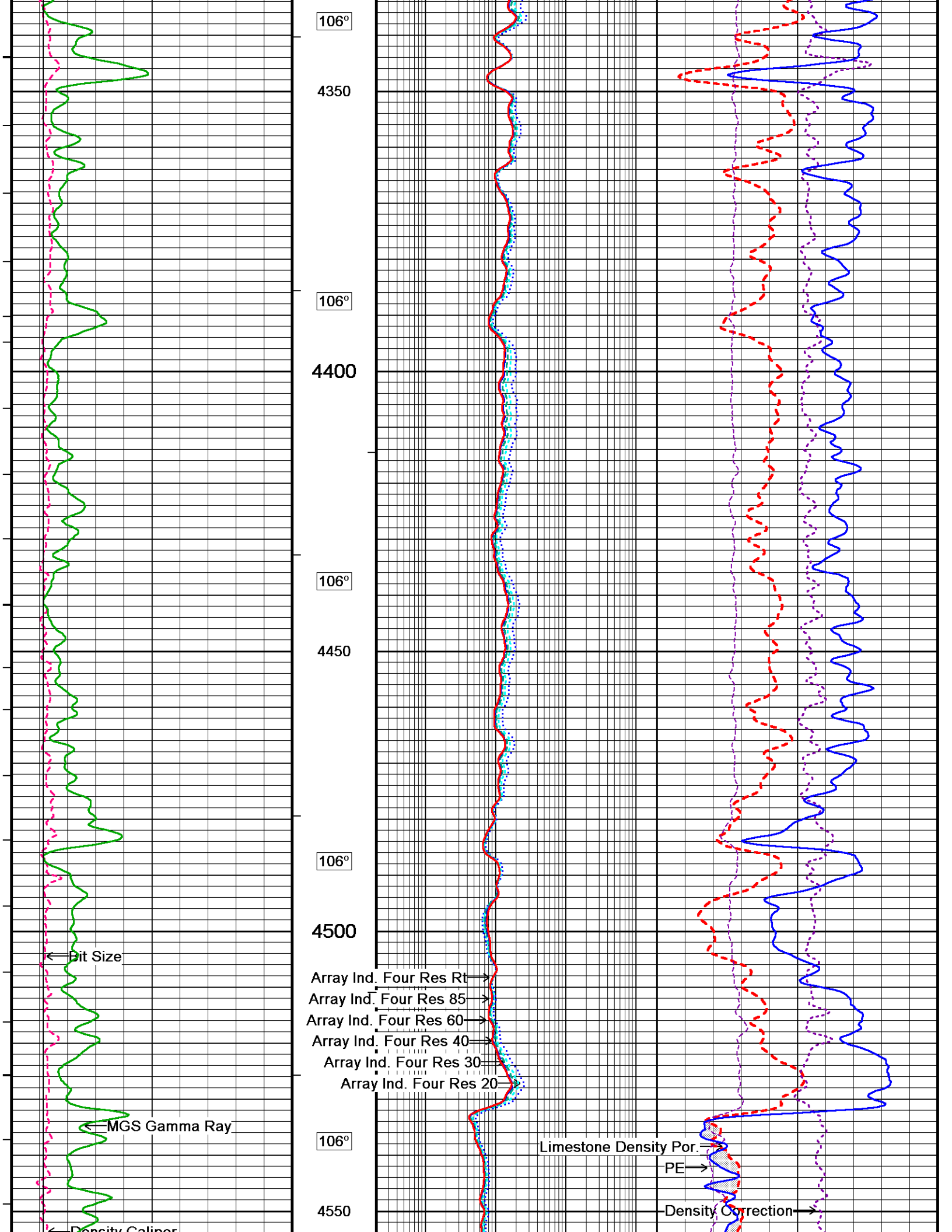


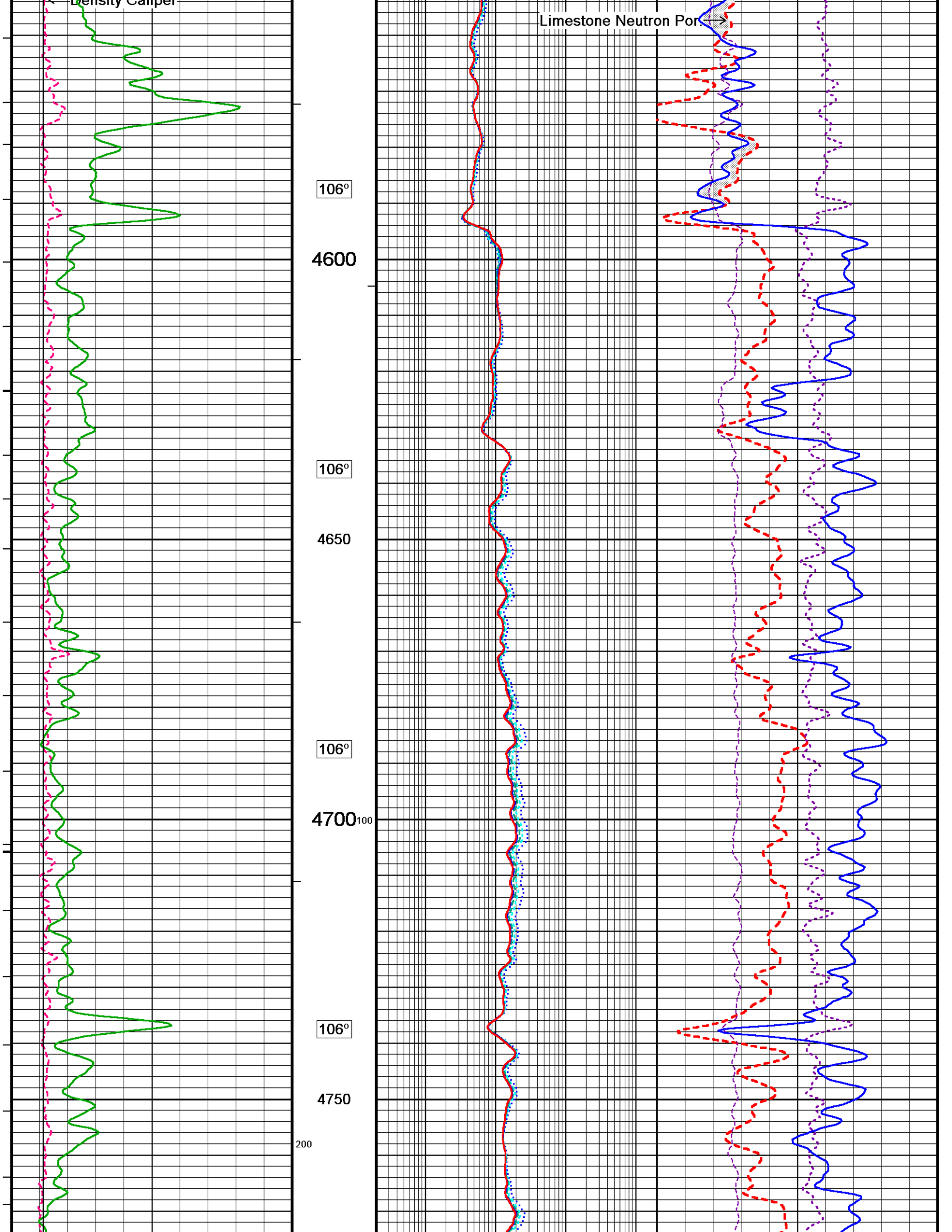
Array Ind. Four Res Rt
ohm metres

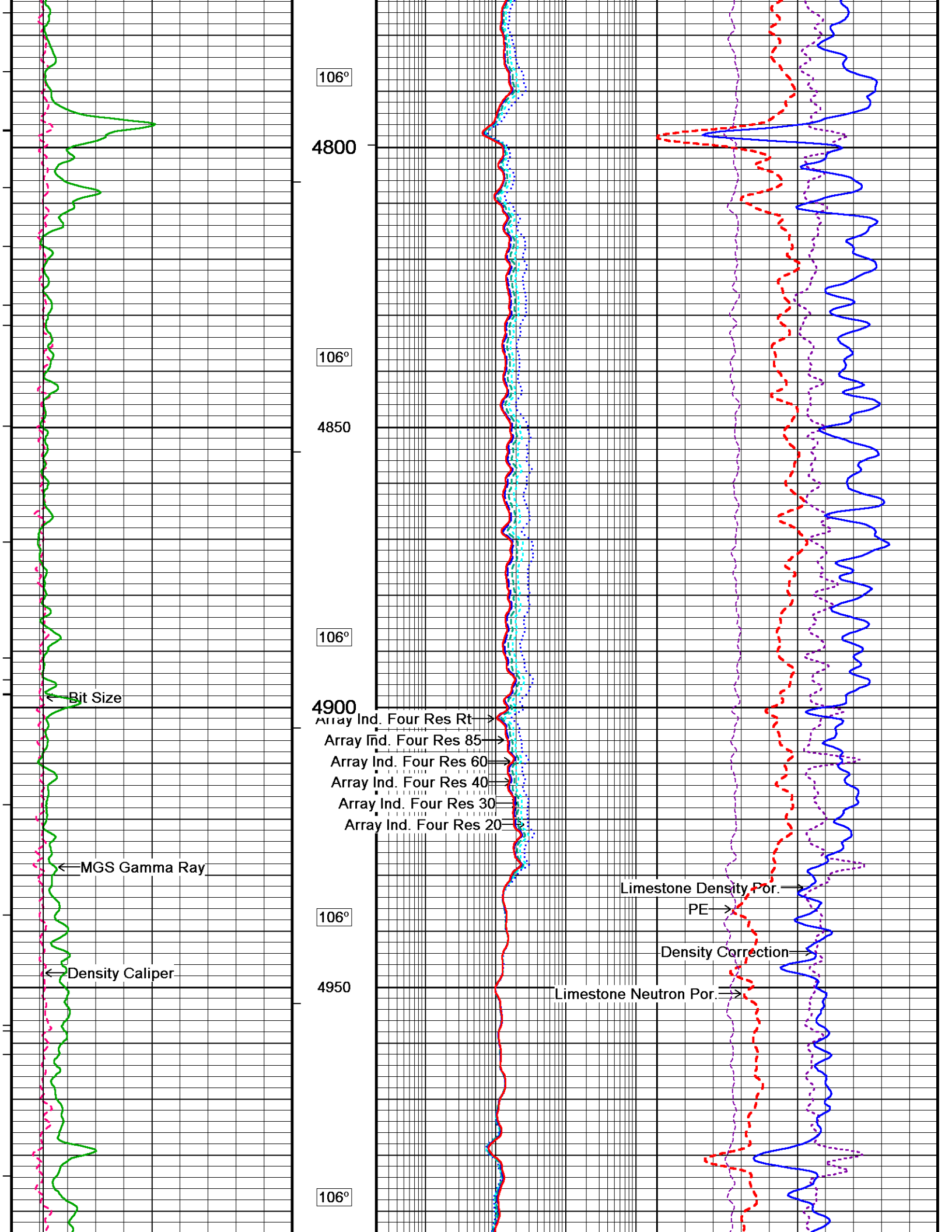


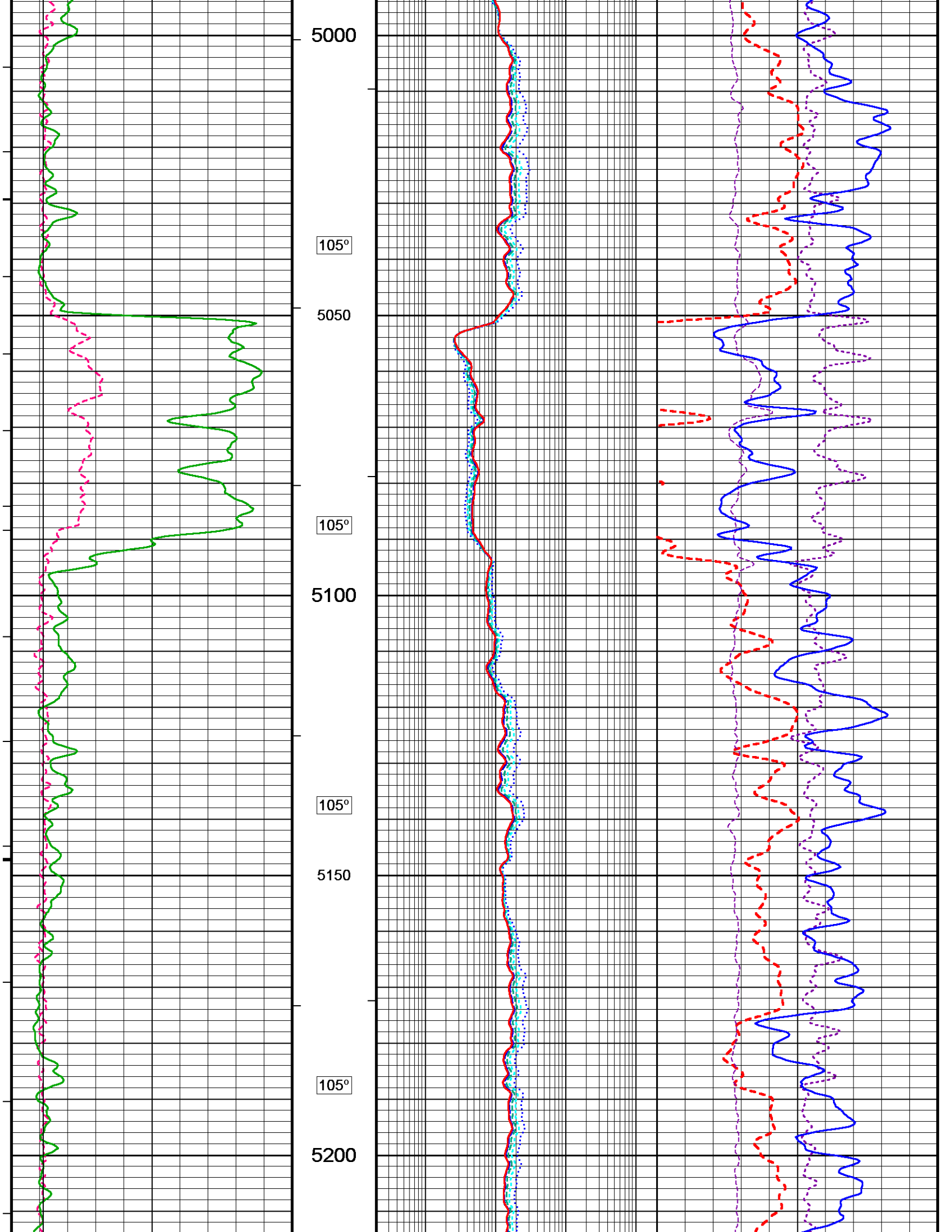


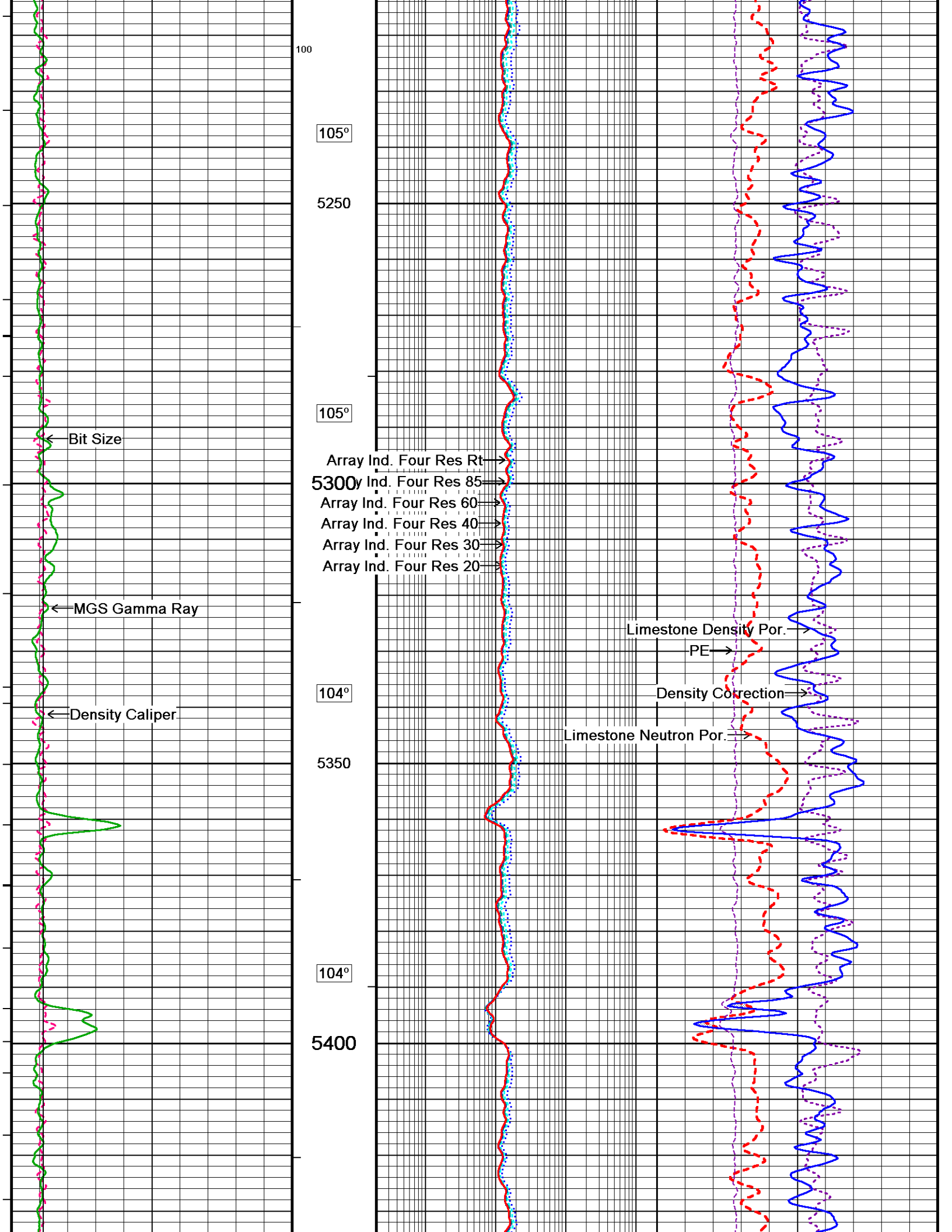


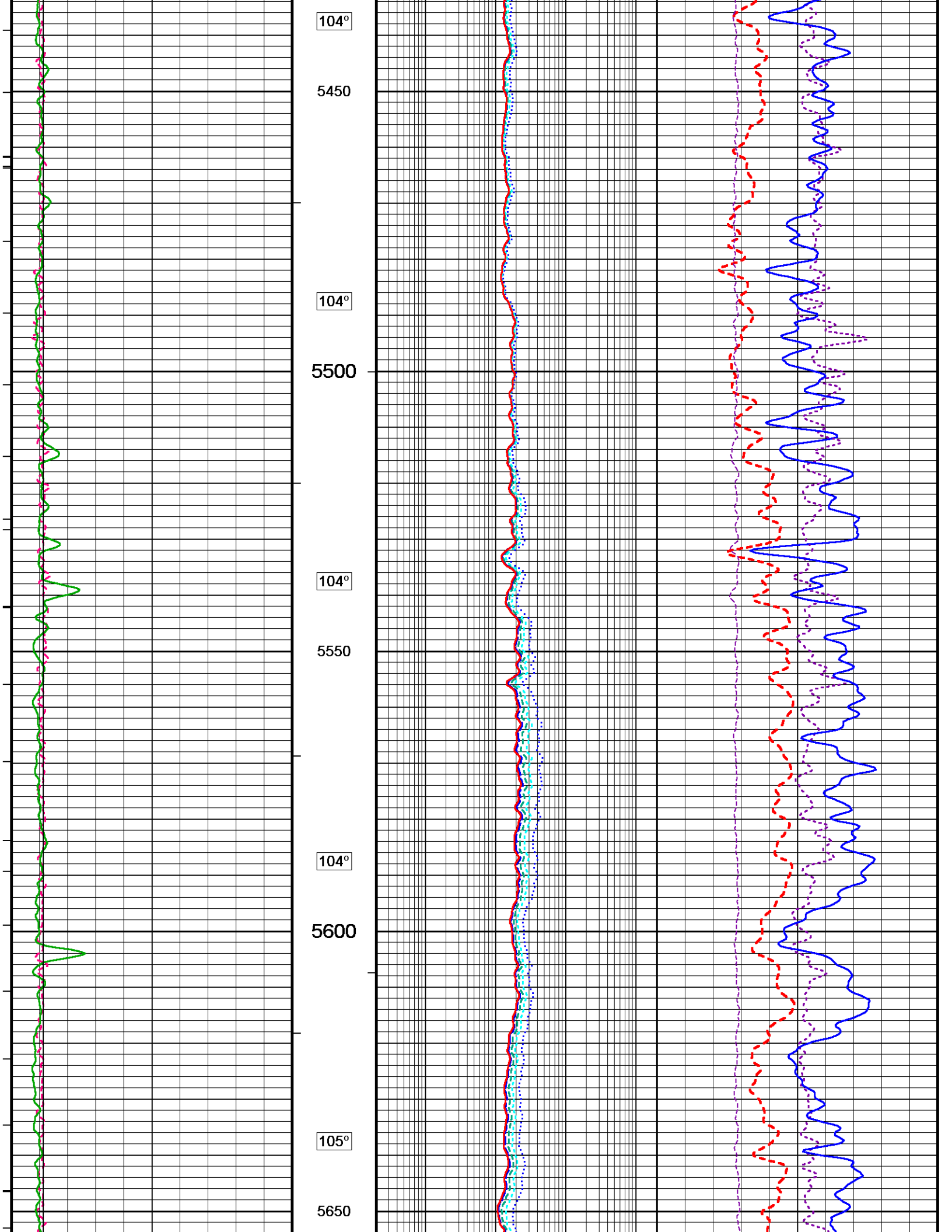


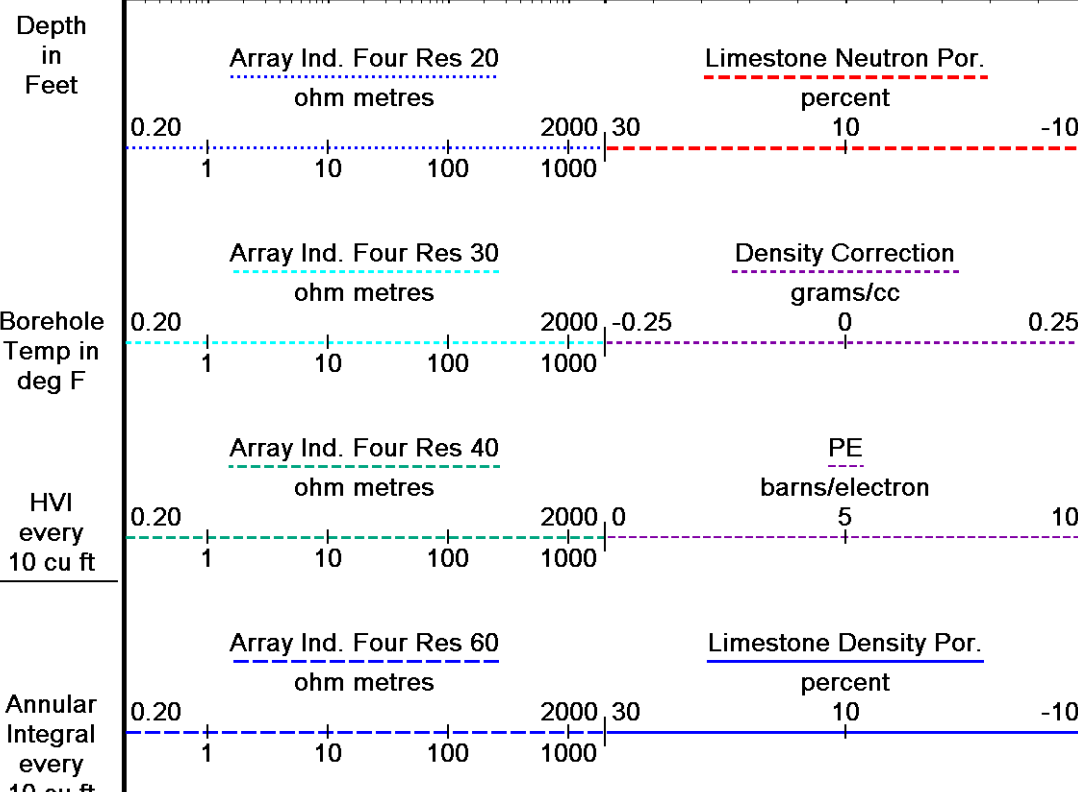
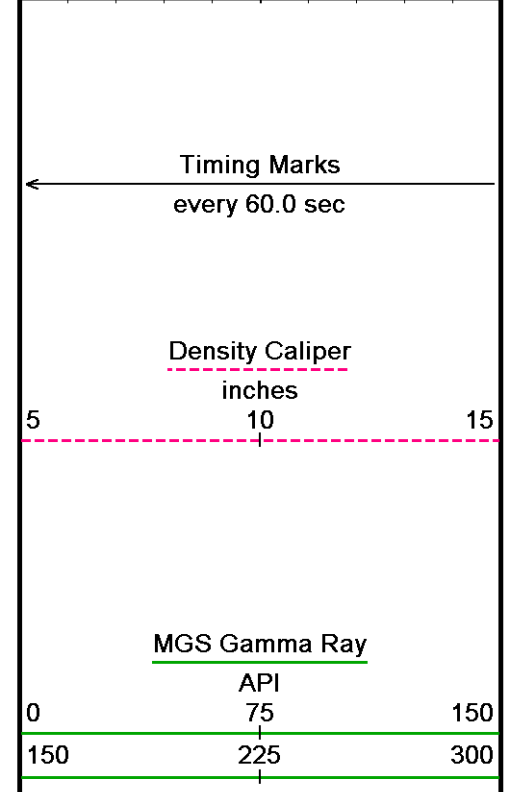
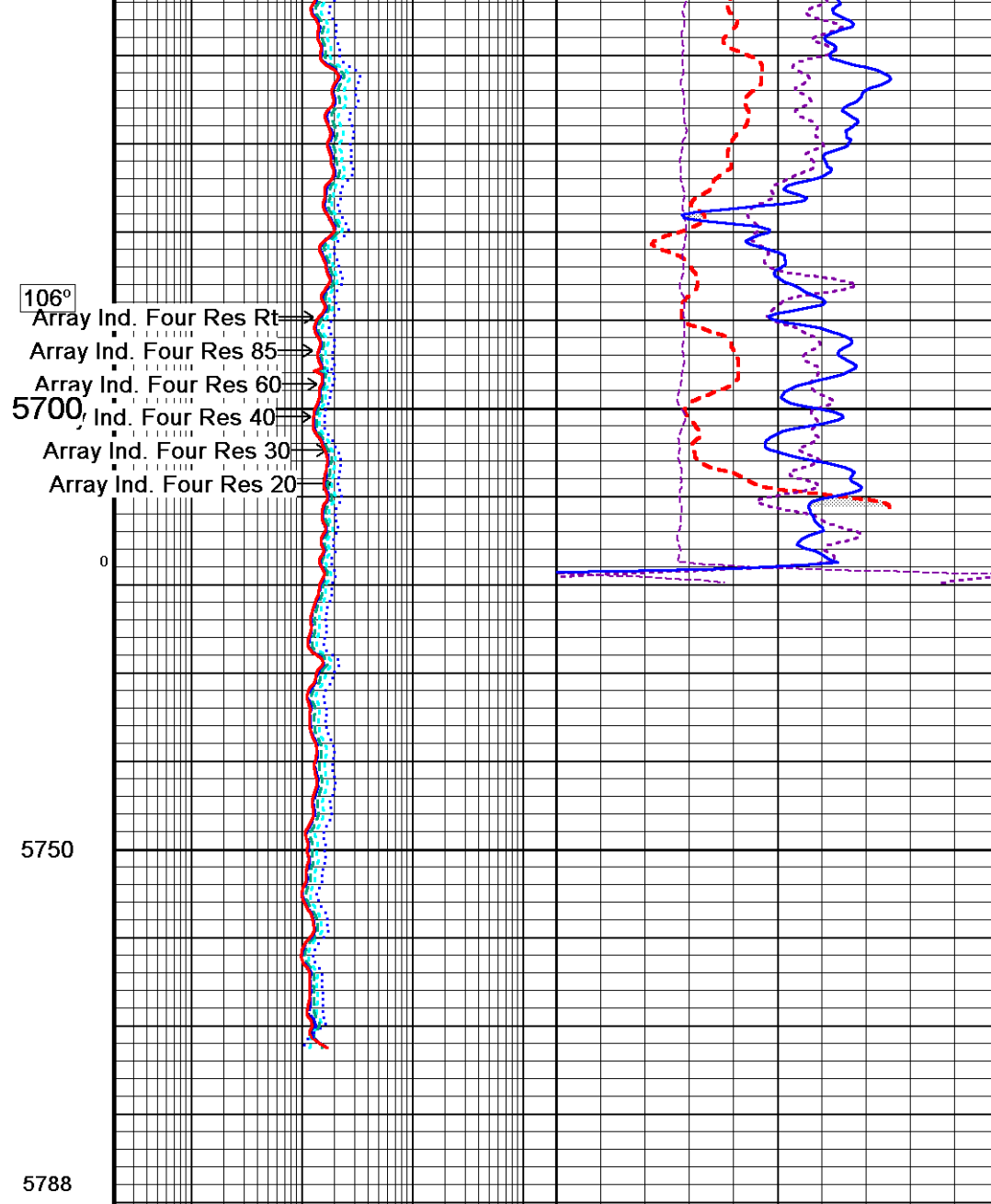
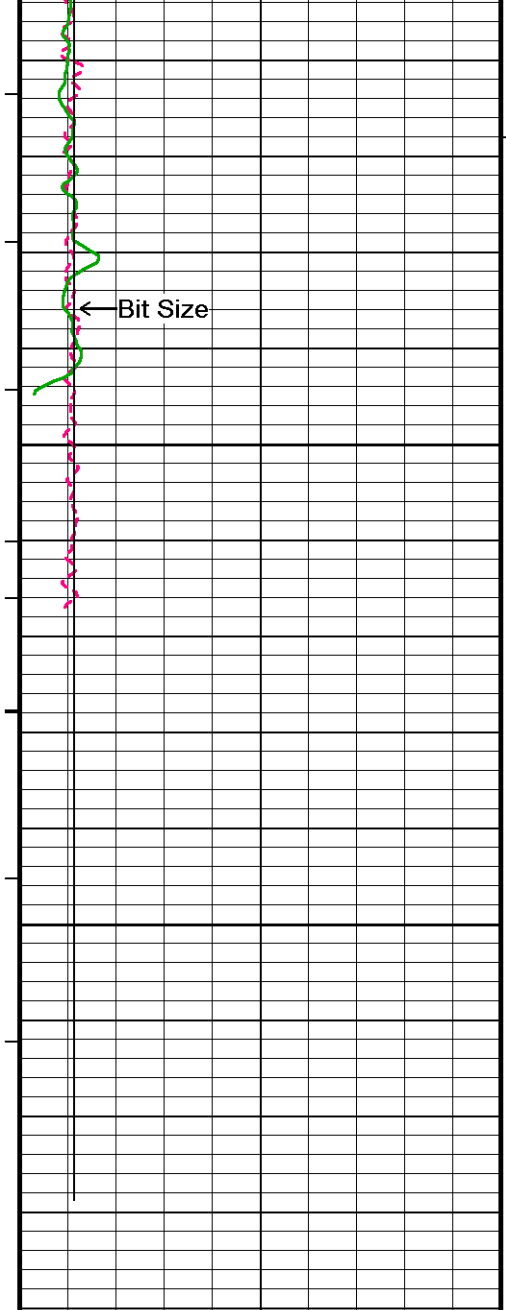








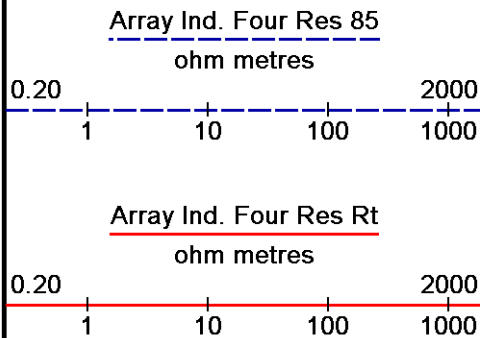




Bit Size
inches

5 10 15

Replay
Scale
1:240



Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 02-DEC-2011 16:20

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



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

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
-------------------	----

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

Neutron Constants MDN-B.J 388

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

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	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	Measured	Actual
Pads 1-5 Caliper(in)	Pads 3-7 Caliper(in)	Caliper(in)
6.06	5.97	5.96

Measured	Measured	Measured	Measured	Actual
Pad 2 Caliper(in)	Pad 4 Caliper(in)	Pad 6 Caliper(in)	Pad 8 Caliper(in)	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			

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	Measured		Calibrated (mmho/m)		
Channel	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	
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		Calibrated Ratio
		WH	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	

COMPANY VESS OIL CORP.
WELL MCCORD 'A' 20H
FIELD BEMIS SHUTTS
PROVINCE/COUNTY ELLIS
COUNTRY/STATE USA / KANSAS

Elevation Kelly Bushing	2100.60	feet	First Reading	5717.00	feet
Elevation Drill Floor	2099.00	feet	Depth Driller	5805.00	feet
Elevation Ground Level	2091.00	feet	Depth Logger	5805.00	feet



Weatherford[®]

COMPOSITE LOG OF ALL SERVICES

