



Weatherford®

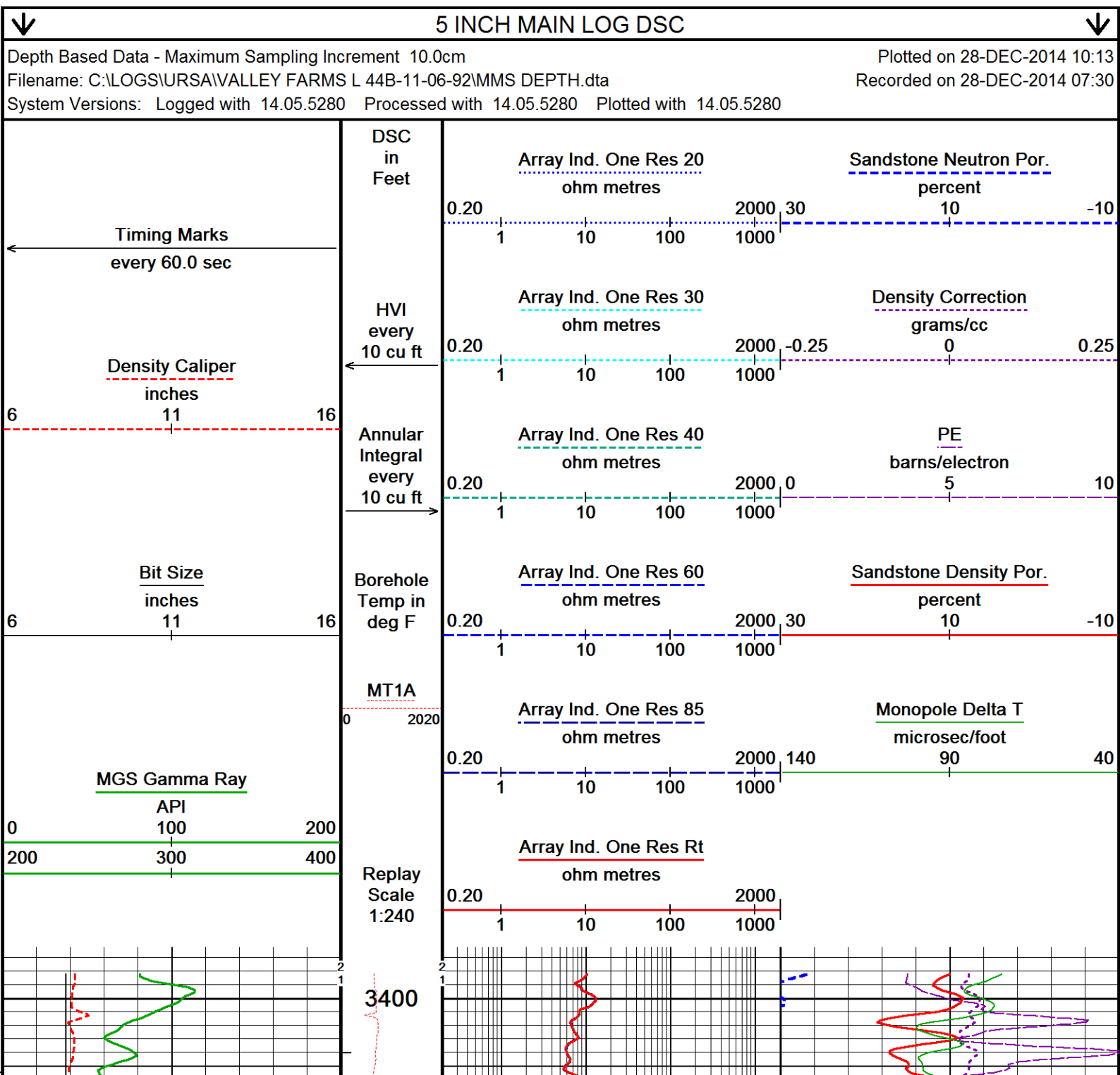
**COMPACT TRIPLE COMBO
LOG**

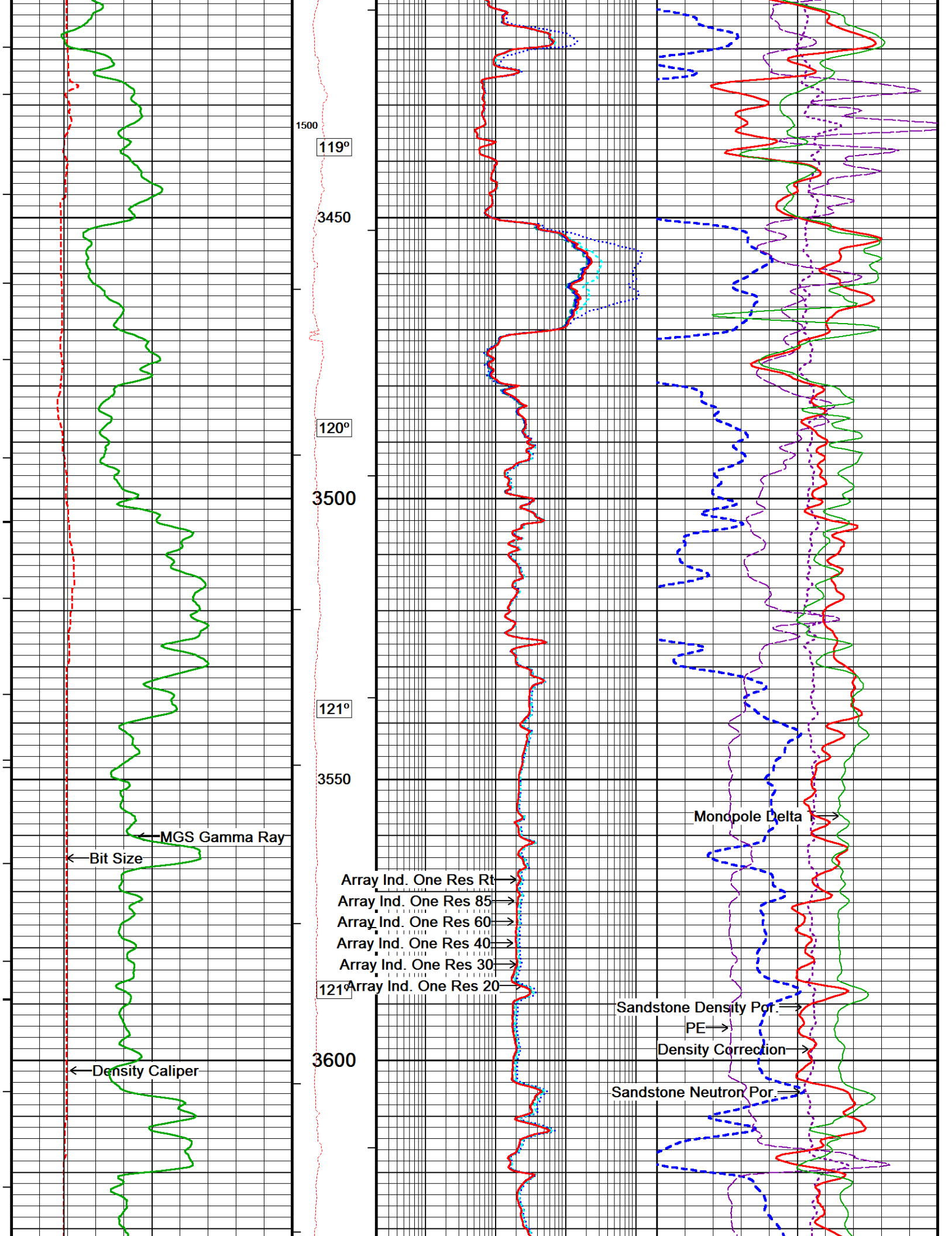
COMPANY			URSA OPERATING COMPANY		
WELL			VALLEY FARMS L 44B 11-06-92		
FIELD			GRAVEL TREND		
PROVINCE/COUNTY			GARFIELD		
COUNTRY/STATE			US/CO		
LOCATION			SHL: 1258' FSL & 1090' FEL		
SEC 11	TWP 6S	RGE 92W	Other Services		
Latitude					
Longitude					
API Number			05-045-2236200		
Permanent Datum GL, Elevation 5577 feet					
Log Measured From KB					
Drilling Measured From KB@15FT					
Date	25-DEC-2014				Elevations: KB 5592.00 DF 5592.00 GL 5577.00
Run Number	1				
Service Order	6551-106622704				
Depth Driller	7288.00		feet		
Depth Logger	7288.00		feet		
First Reading	7262.00		feet		
Last Reading	3396.00		feet		
Casing Driller	993.00		feet		
Casing Logger	---				
Bit Size	7.875		inches		
Hole Fluid Type	WBM				
Density / Viscosity	12.40 lb/USg		43.00 SEC/QT		
PH / Fluid Loss	9.40		6.80 ml/30Min		
Sample Source	FLOW LINE				
Rm @ Measured Temp	1.47 @ 70.7		ohm-m		
Rmf @ Measured Temp	1.18 @ 70.7		ohm-m		
Rmc @ Measured Temp	1.76 @ 70.7		ohm-m		
Source Rmf / Rmc	CALC		---		
Rm @ BHT	0.74 @145.0		ohm-m		
Time Since Circulation	2 HOURS				
Max Recorded Temp	166.00		deg F		
Equipment / Base	13269		CASPER		
Recorded By	C CULLEN				
Witnessed By	R MCNEIL				

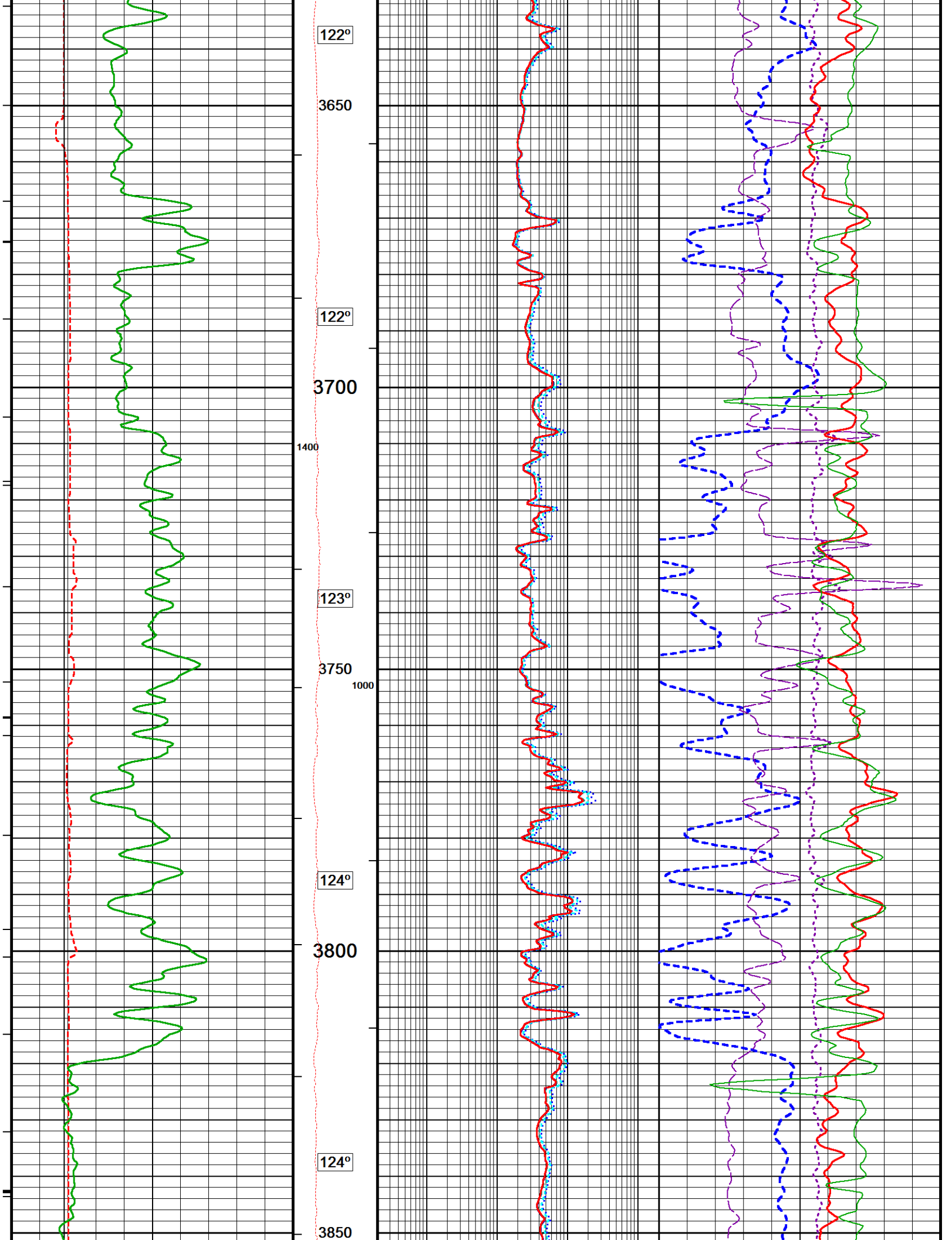
BOREHOLE RECORD					Last Edited: 27-DEC-2014 18:07
Bit Size inches		Depth From feet		Depth To feet	
7.875		993.00		7288.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	8.625	0.00	993.00	32.00	

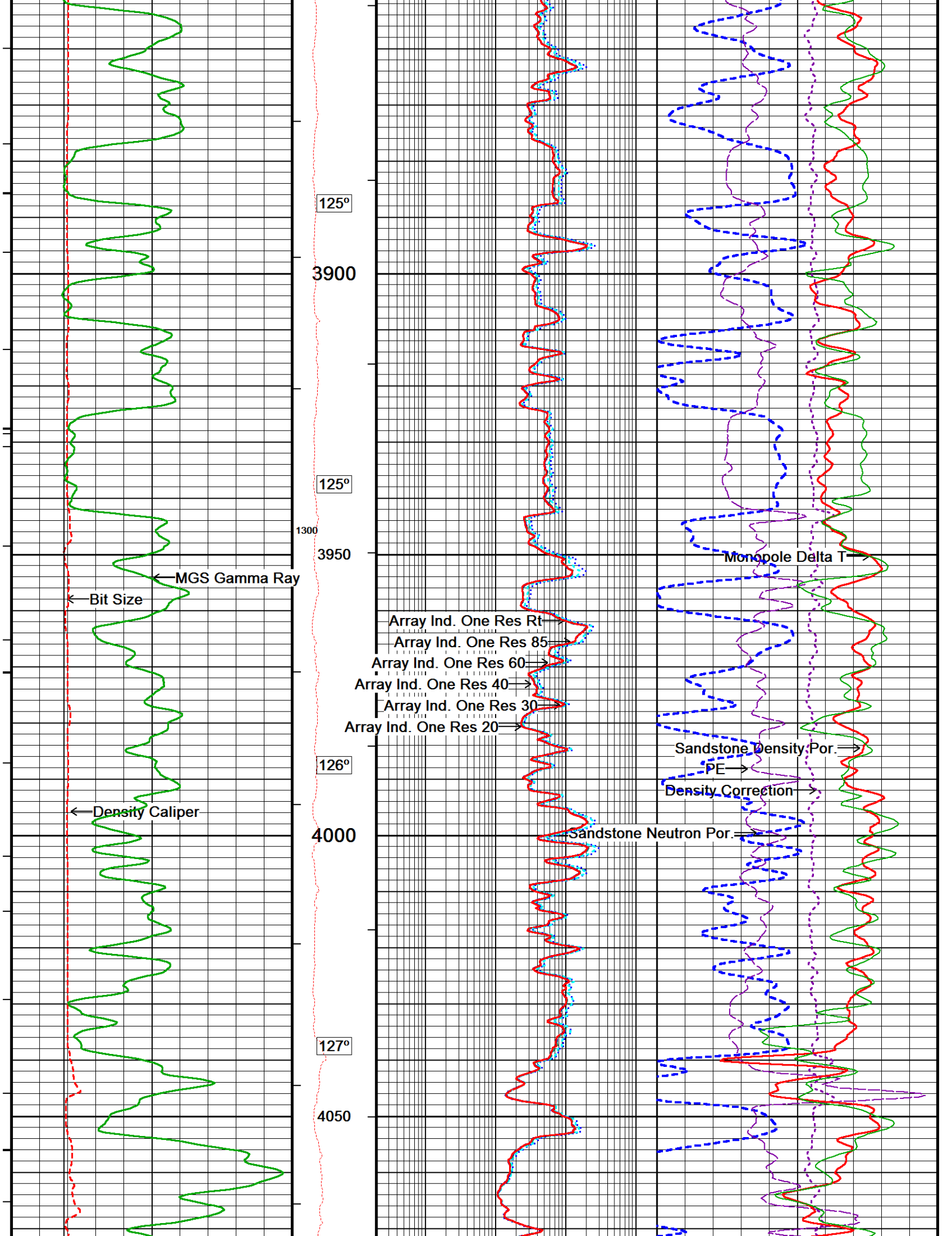
REMARKS
SOFTWARE VERSION 14.05.5280
LOGGED USING COMPACT DROPP-OFF SYSTEM.
ALL LOGS CORRECTED TO GAMMA WIRELINE DOWNLOG
TOOLS RUN: SEE TOOL DIAGRAM.
HARDWARE: MPD: 4" PROFILE PLATE
2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY
TIGHT PULLS, BOREHOLE SIZE AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
TOTAL HOLE VOLUME FROM TD TO 3396FT =1510 CUBIC FEET

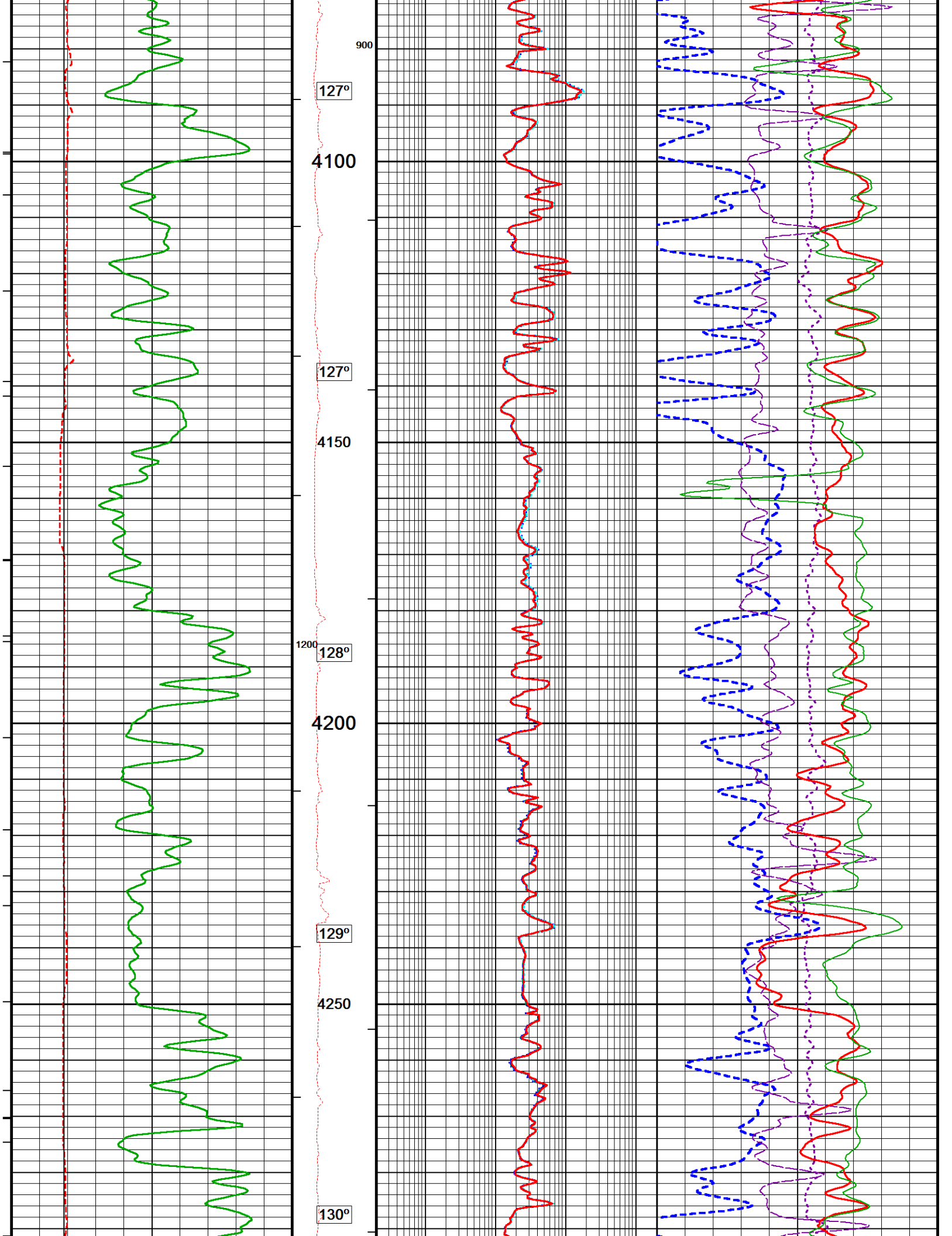
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

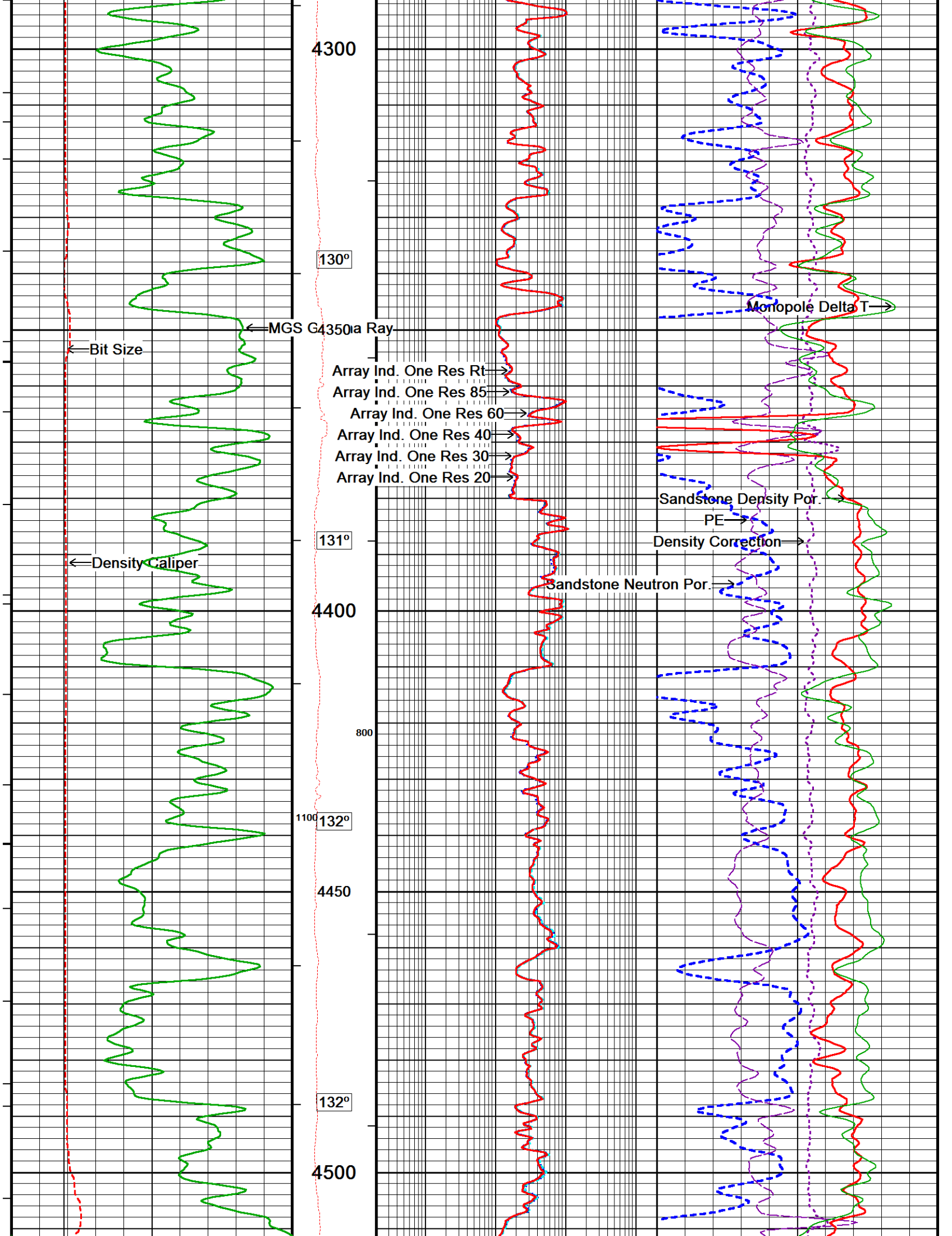


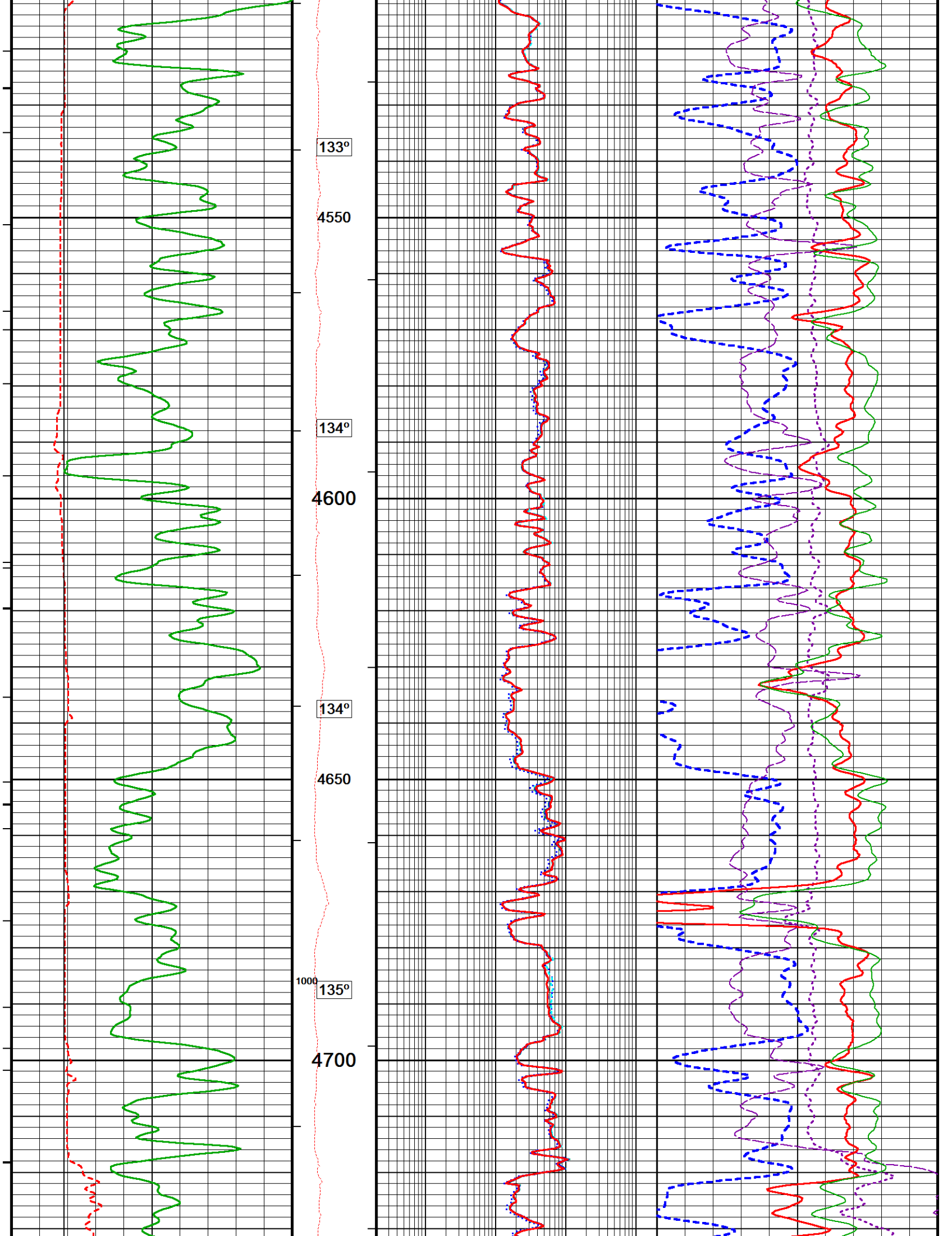


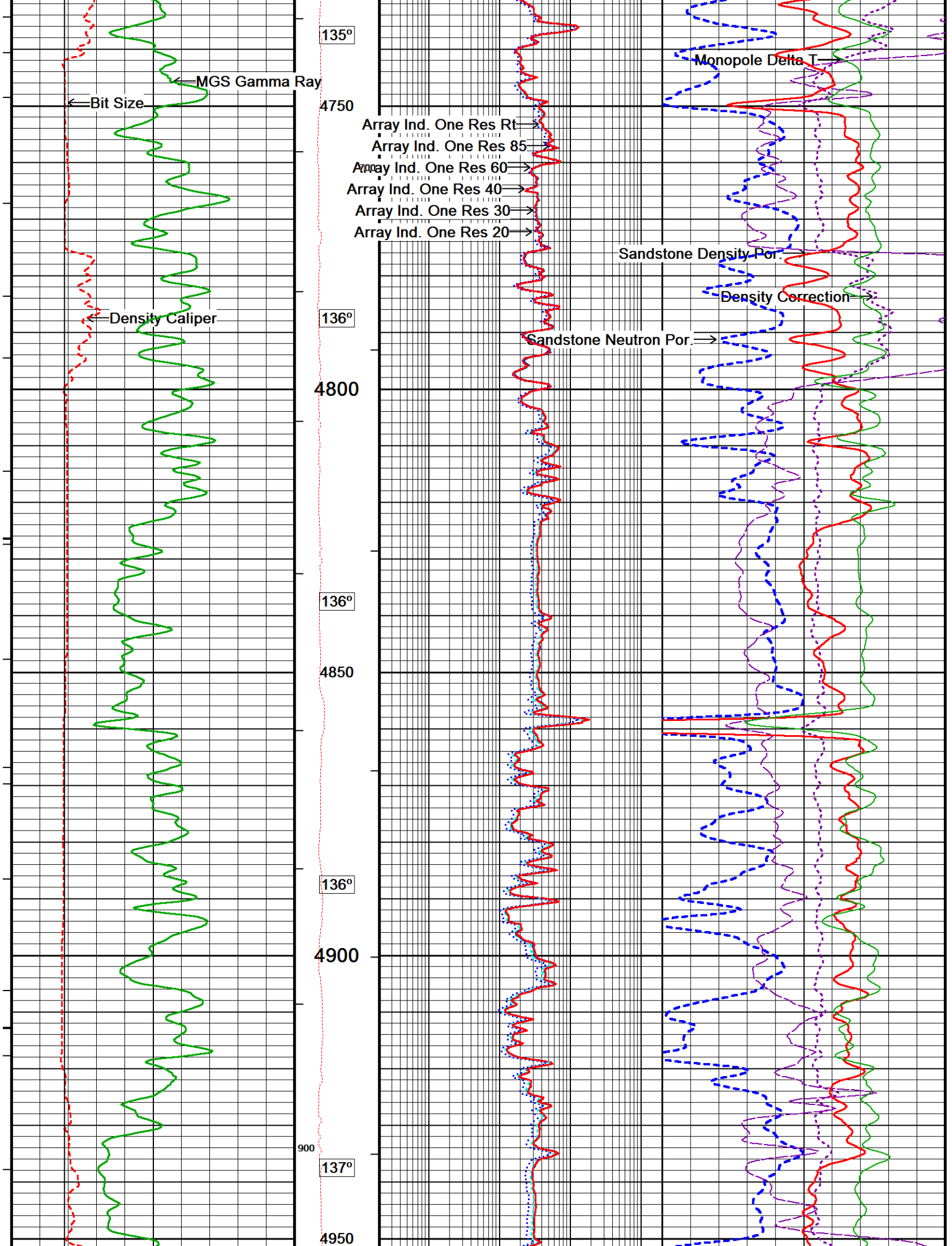


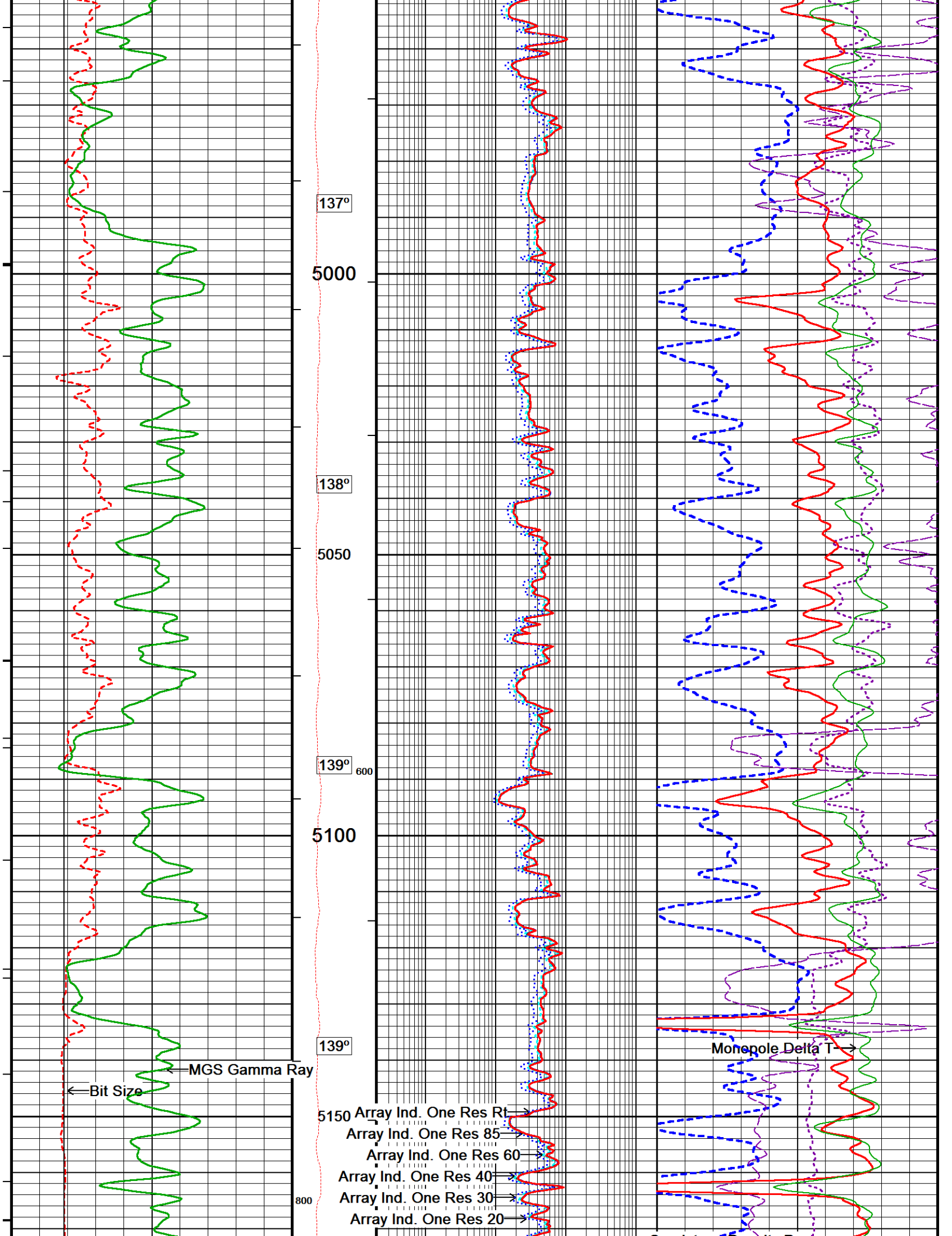


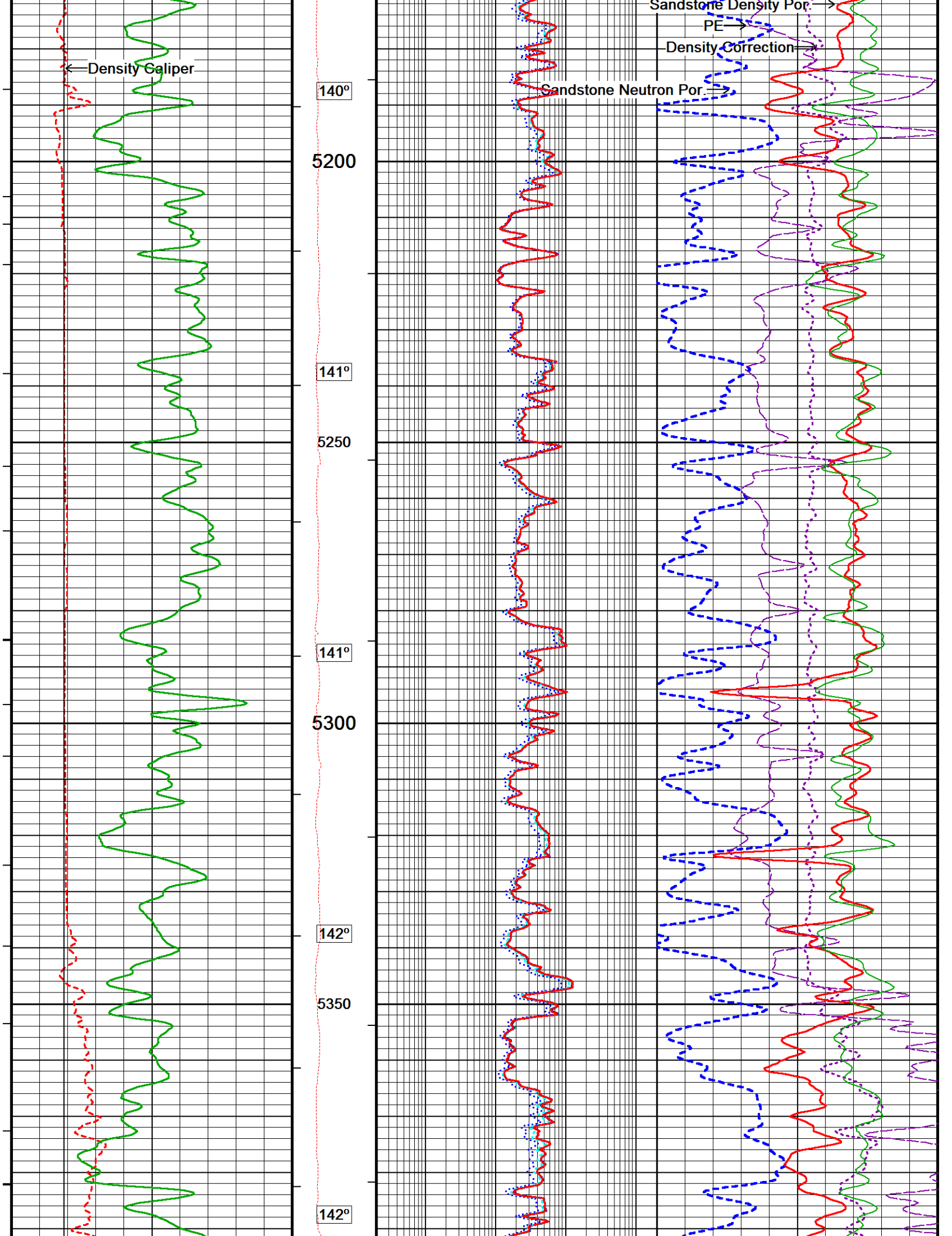


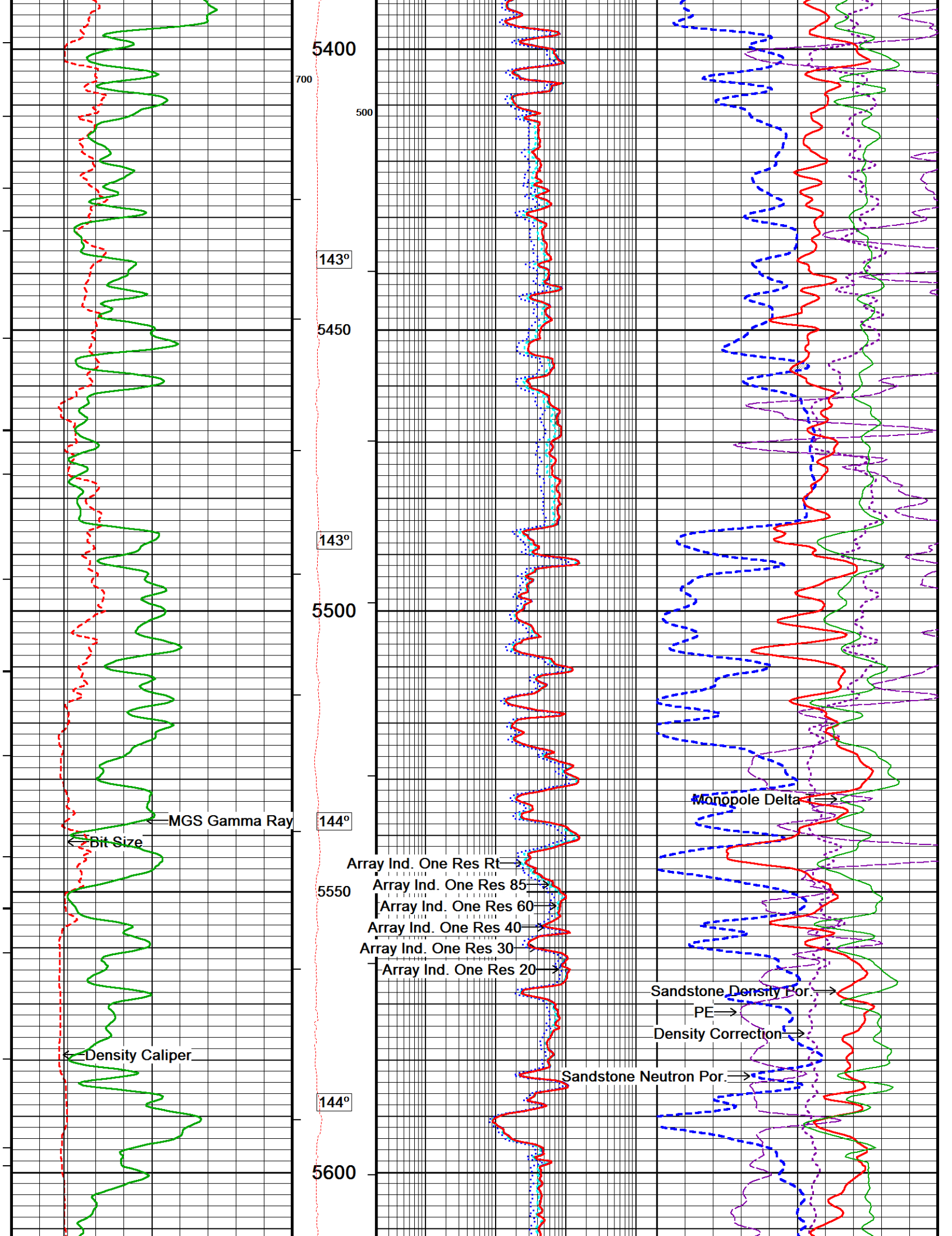


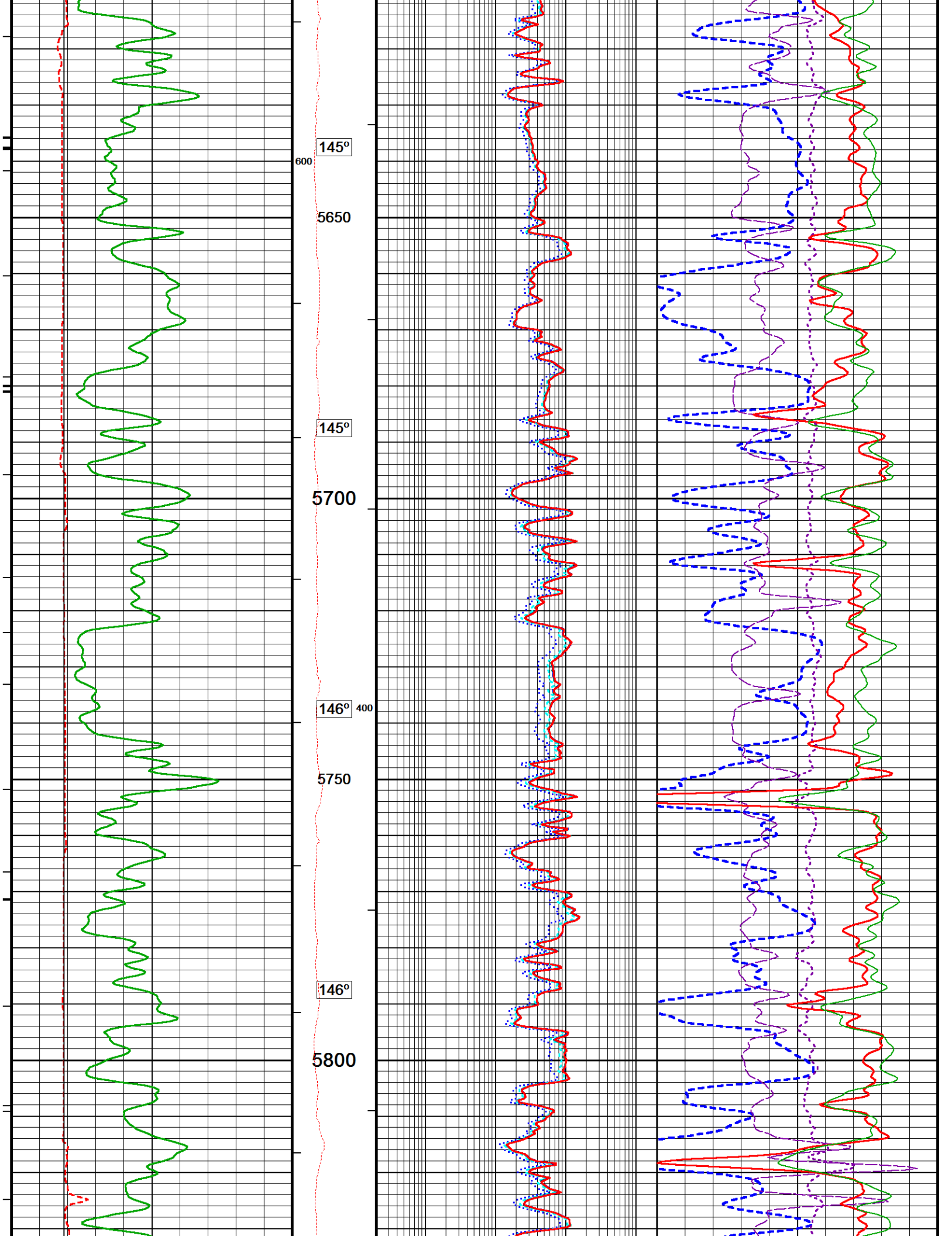


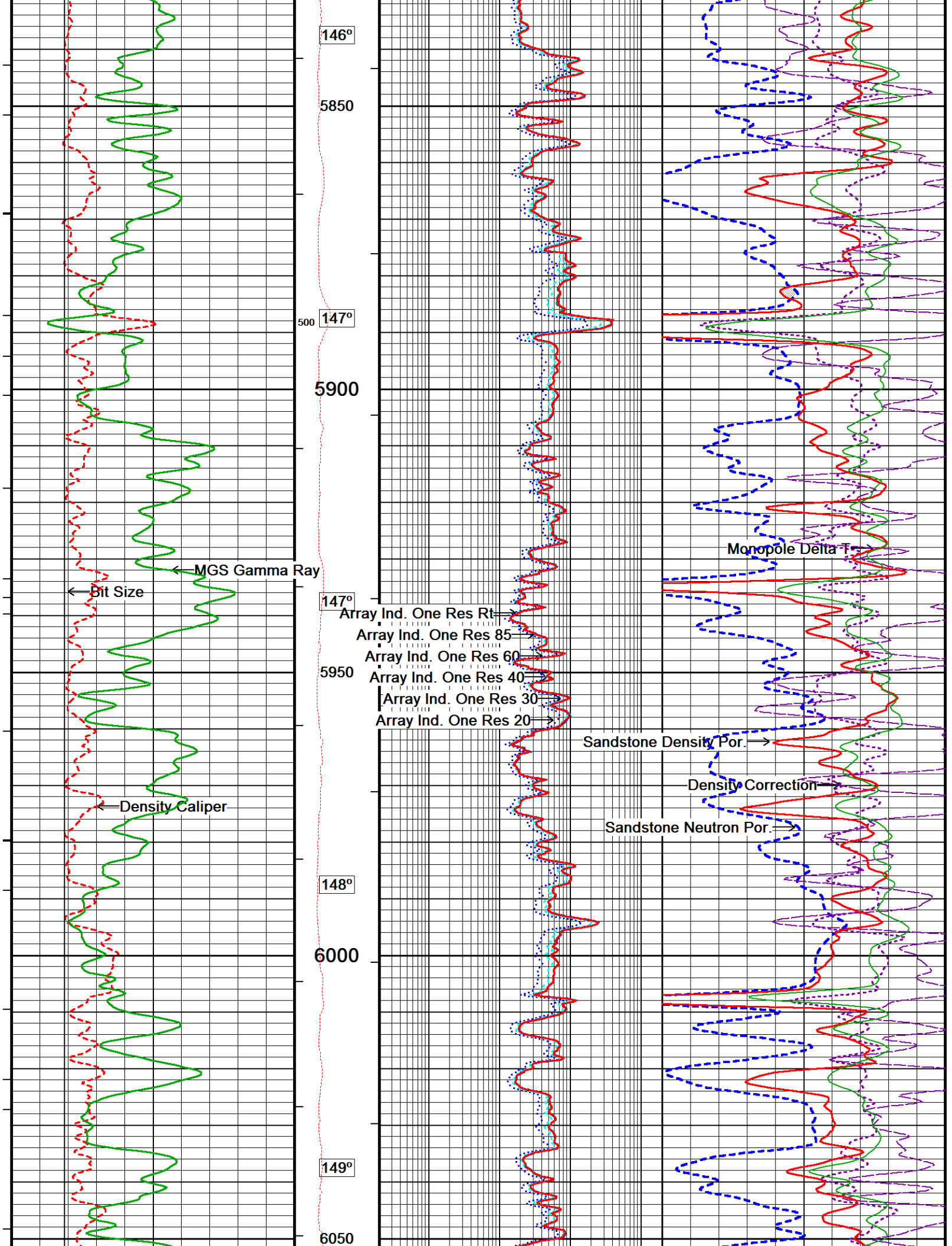


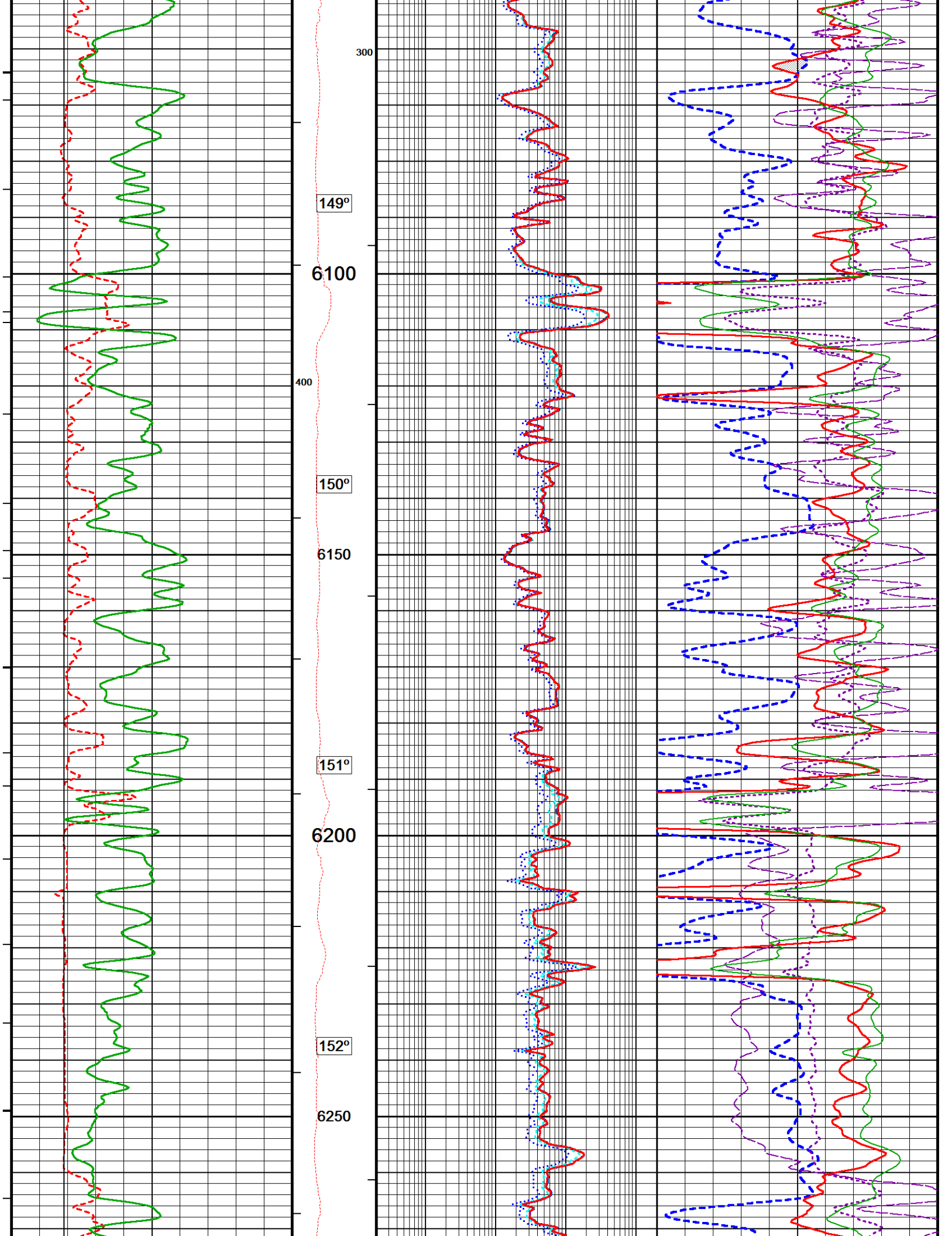


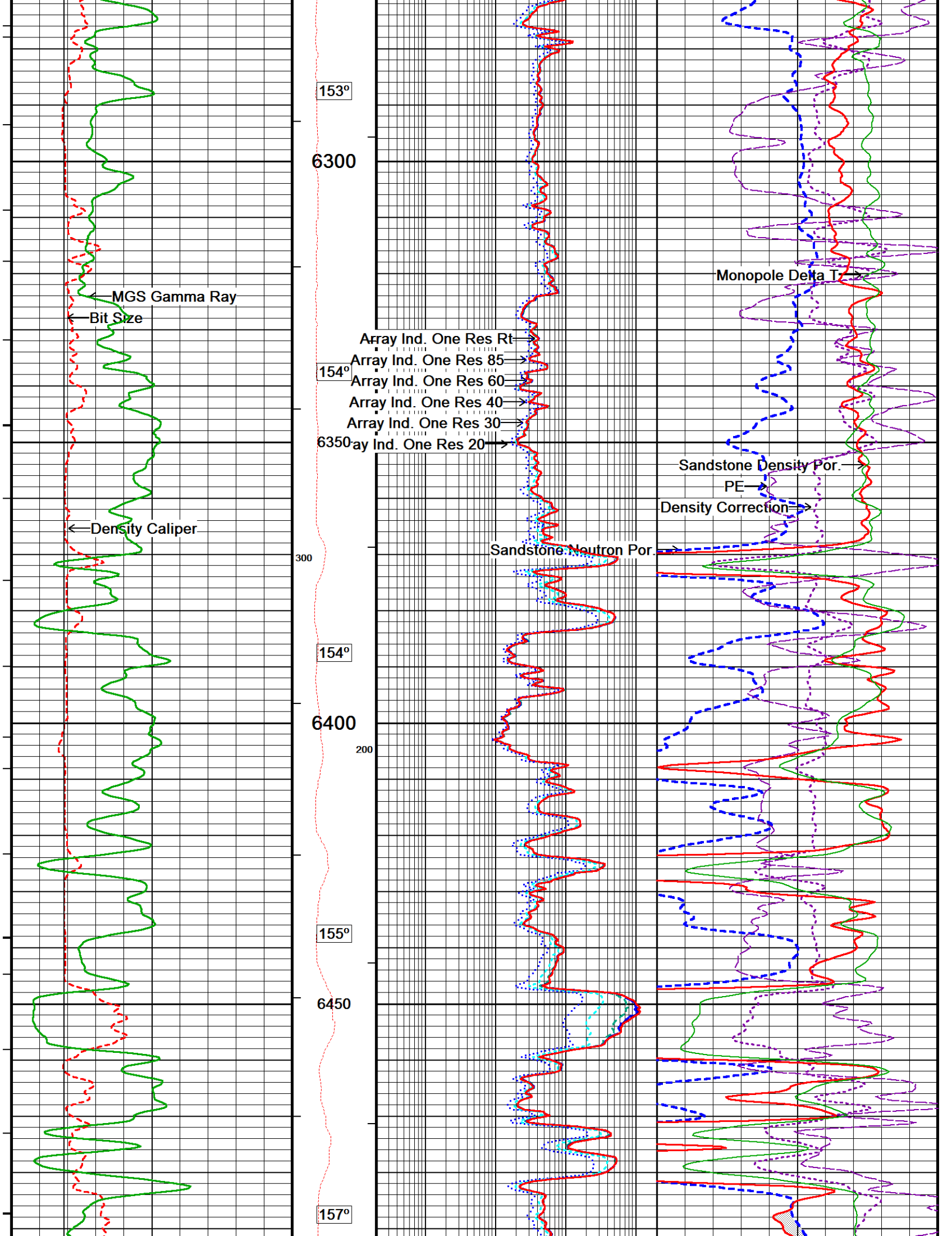


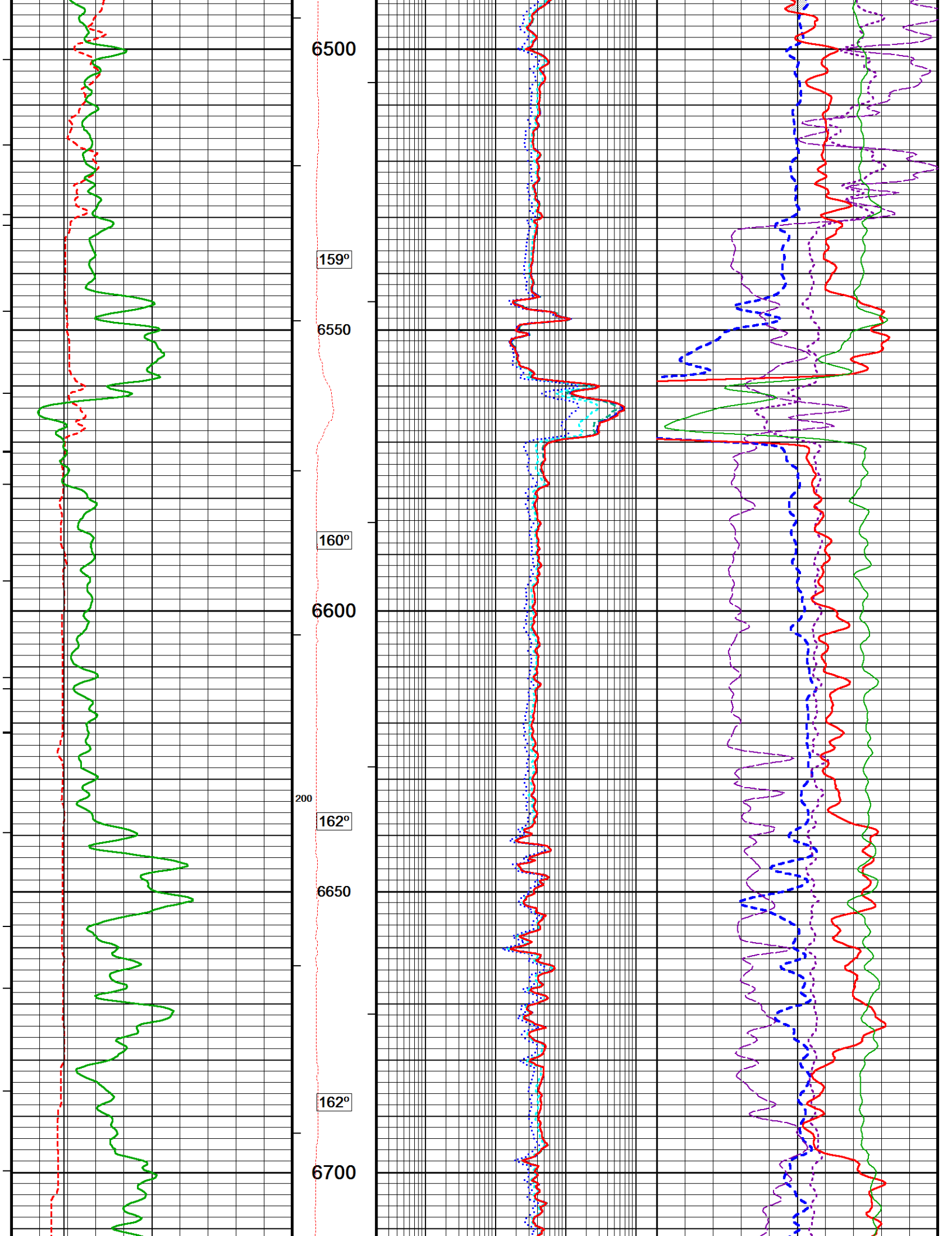


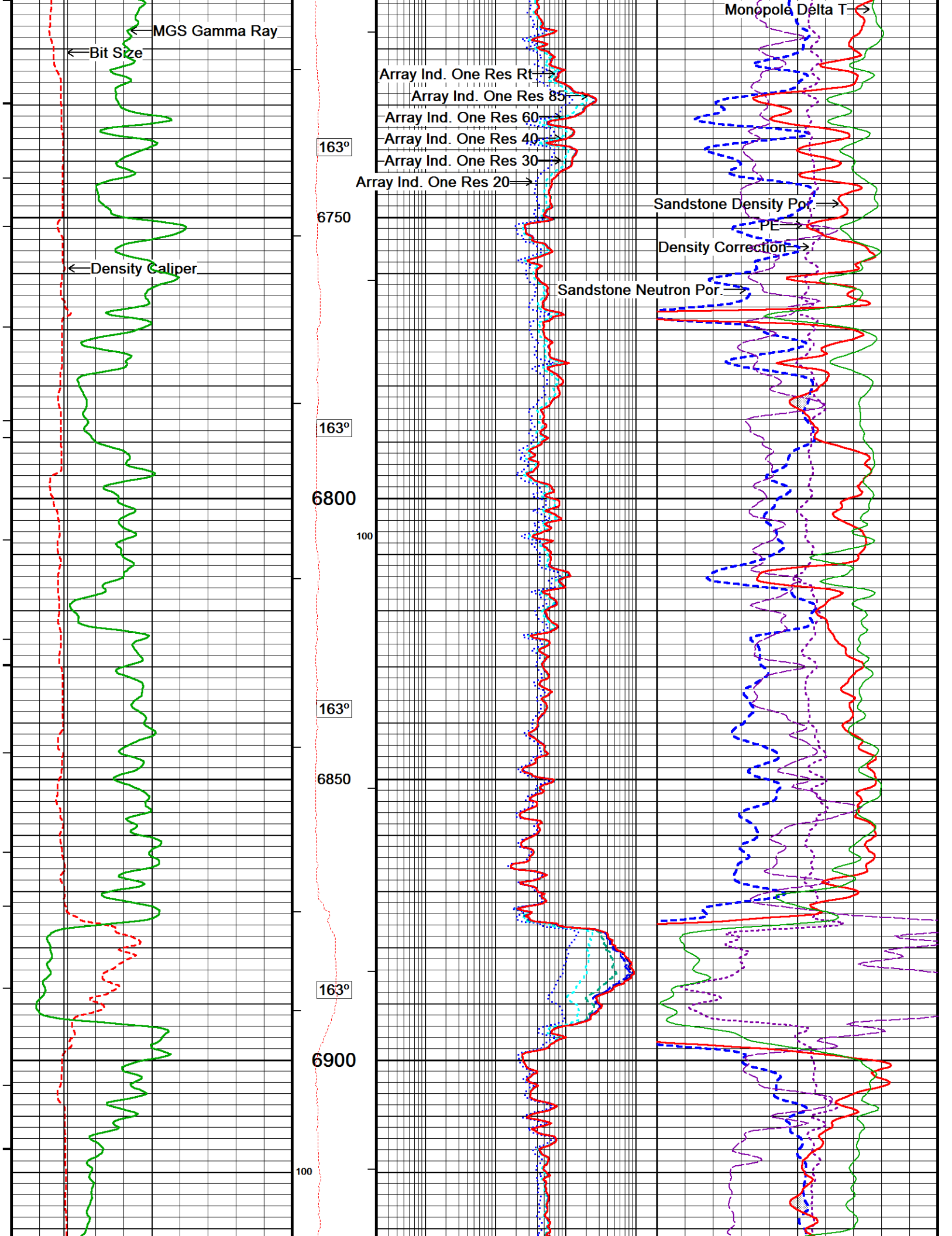


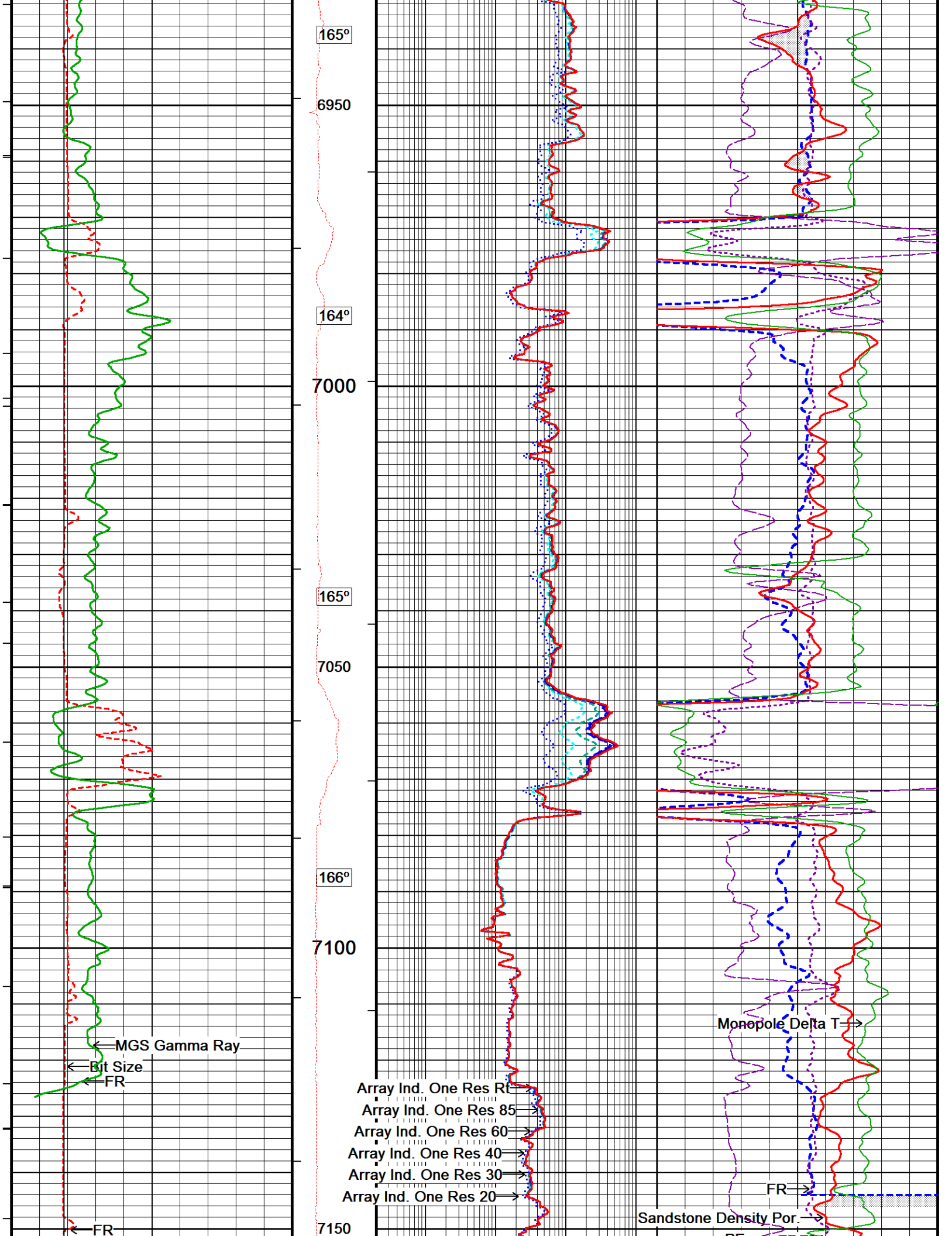


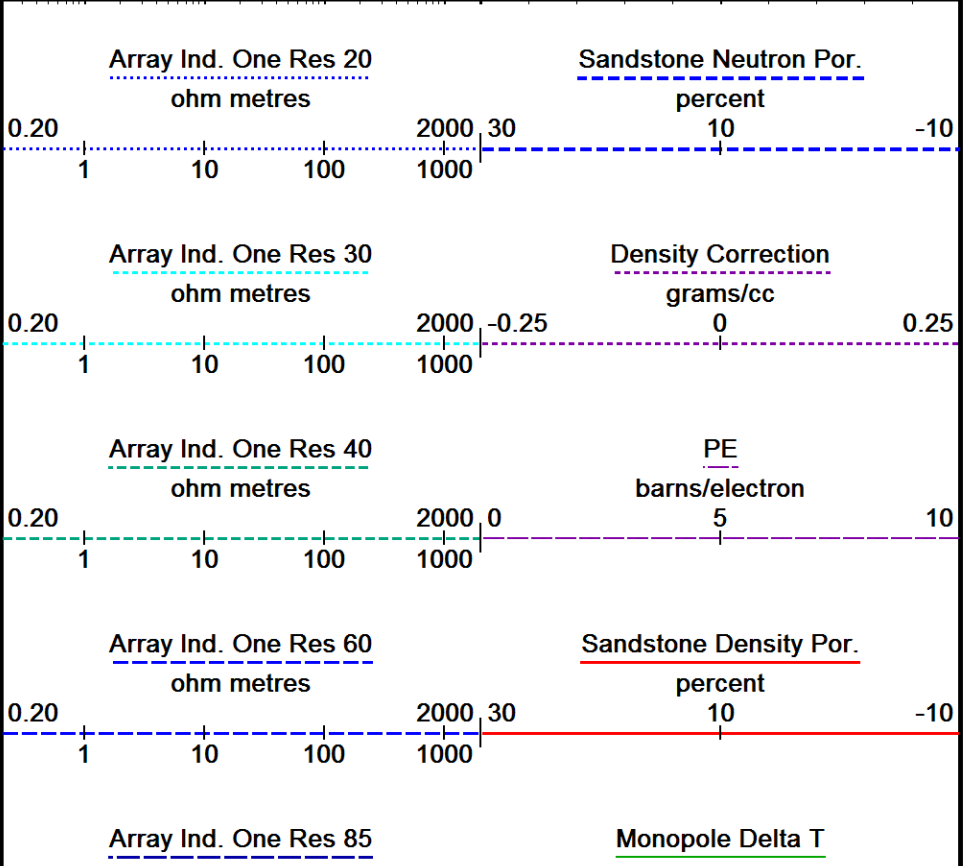
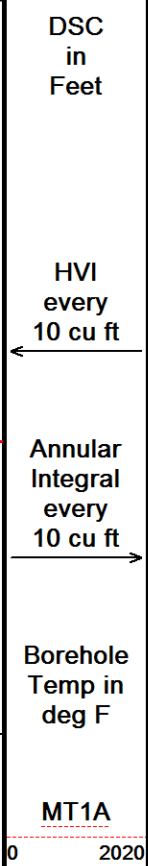
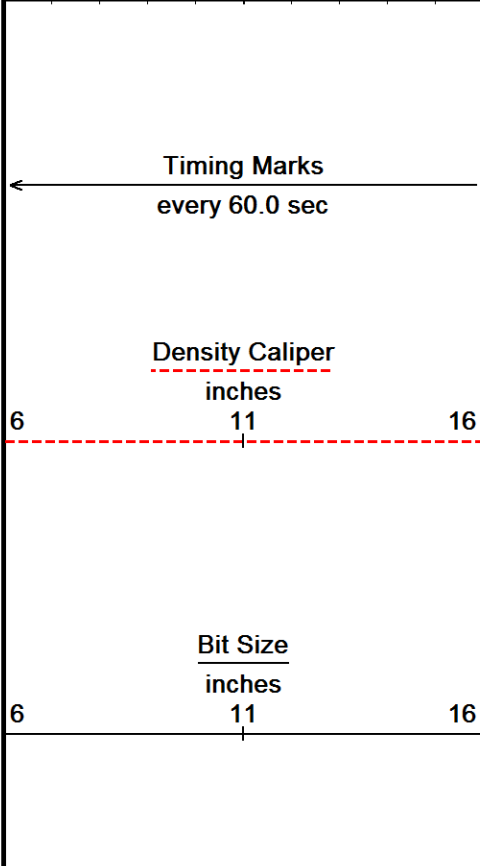
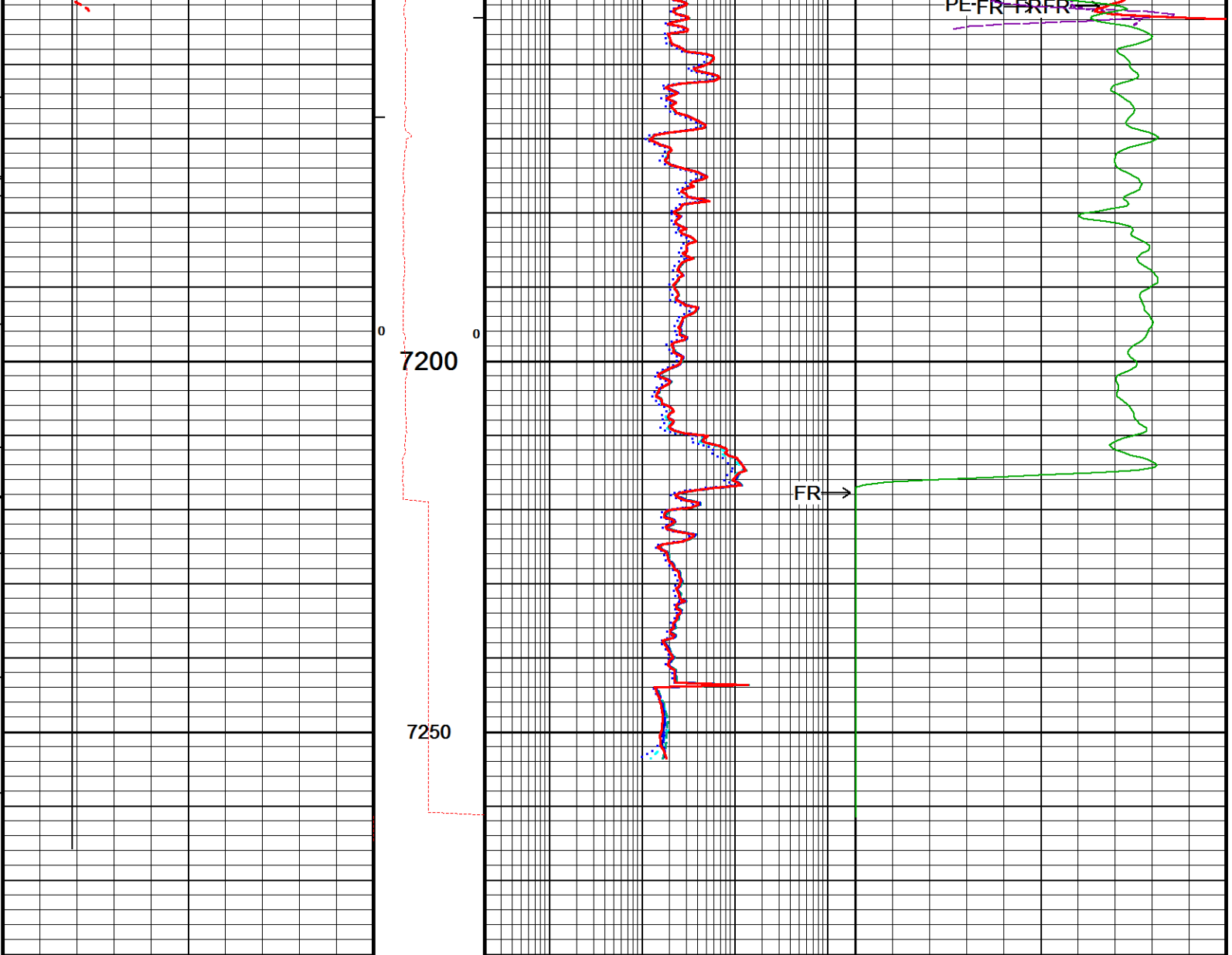


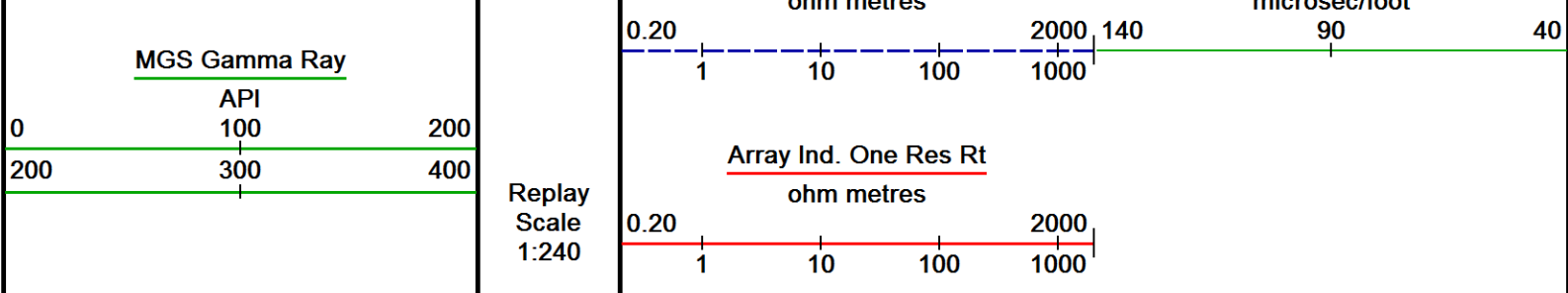












Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 28-DEC-2014 10:13

Filename: C:\LOGS\URSA\VALLEY FARMS L 44B-11-06-92\MMS DEPTH.dta

Recorded on 28-DEC-2014 07:30

System Versions: Logged with 14.05.5280 Processed with 14.05.5280 Plotted with 14.05.5280

5 INCH MAIN LOG DSC

BEFORE SURVEY CALIBRATION

C:\LOGS\URSA\VALLEY FARMS L 44B-11-06-92\MMS DEPTH.dta

General Constants All 000			Last Edited on 27-DEC-2014,18:04		
General Parameters					
Mud Resistivity	1.470	ohm-metres			
Mud Resistivity Temperature	70.700	degrees F			
Water Level	0.000	feet			
Borehole Fluid Processing	Wet Hole				
Hole/Annular Volume and Differential Caliper Parameters					
HVOL Method	XY Caliper				
HVOL Caliper 1	Density Caliper				
HVOL Caliper 2	Y Two Arm Caliper				
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				
SW/APOR Tool Source	0.000				

Down-hole Tension Calibration SMS 0		Field Calibration on 21-DEC-2014 15:35	
Reading No	Measured	Calibrated (lbs)	
1	15160.18	0.00	
2	18413.23	826.00	

Strain Gauge Constants MMS-F.A 246		Last Edited on	
Atmospheric Pressure		14.70	psi
Serial Number		0	
Calibration Date		000000000000	
Base Check Date			
Dead Weight Serial Number		0	
Dead Weight Gravitational Correction		1.0	
Temperature	75.0	150.0	250.0
Pressure psia	Inc. Dec.	Inc. Dec.	Inc. Dec.
0.0	0.000 0.000	0.000 0.000	0.000 0.000
2000.0	0.000 0.000	0.000 0.000	0.000 0.000
4000.0	0.000 0.000	0.000 0.000	0.000 0.000
6000.0	0.000 0.000	0.000 0.000	0.000 0.000
8000.0	0.000 0.000	0.000 0.000	0.000 0.000
10000.0	0.000 0.000	0.000 0.000	0.000 0.000

Gamma Calibration MGS-C.J 149		Field Calibration on 25-DEC-2014 19:56	
	Measured	Calibrated (API)	
Background	104	73	
Calibrator (Gross)	996	699	
Calibrator (Net)	893	626	

Gamma Calibration Tolerances MGS-C.J 149			
Ratio	1.426	<div><div></div><div></div><div></div><div></div><div></div></div>	Counts/API
Gamma Constants MGS-C.J 149			
Last Edited on 27-DEC-2014,17:55			
Gamma Calibrator Number	51		
GRC-M Calibrator Jig in Use?	NO		
Inactive Background Jig in Use?	NO		
Mud Density	1.49	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl		kppm	
K Mud Type	Chloride		
K Mud Concentration	0.00	%	
High Resolution Temperature Constants MGS-C.J 149			
Last Edited on			
Pre-filter Length	11		
Neutron Calibration MDN-B.J 428			
Base Calibration on 20-OCT-2014 14:55			
Field Check on 25-DEC-2014 19:04			
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	2896 88	3714 110	
Ratio	32.794	33.764	
Field Calibrator at Base			
	Calibrated (cps)		
	1626 2399		
Ratio	0.678		
Field Check			
	Calibrated (cps)		
	1629 2395		
Ratio	0.680		
Neutron Calibration Tolerances MDN-B.J 428			
Near Reading	2896	<div><div></div><div></div><div></div><div></div><div></div></div>	cps
Ratio	32.794	<div><div></div><div></div><div></div><div></div><div></div></div>	
Base Check	0.678	<div><div></div><div></div><div></div><div></div><div></div></div>	
Field Check	0.680	<div><div></div><div></div><div></div><div></div><div></div></div>	
Far Reading			
	88	<div><div></div><div></div><div></div><div></div><div></div></div>	cps
Neutron Constants MDN-B.J 428			
Last Edited on 27-DEC-2014,18:02			
Neutron Source Id	P44384B		
Neutron Jig Number	6532NK		
Air Hole Processing	Modified Ratio		
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	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	None		
Formation Fluid Salinity	N/A	kppm	
Barite Mud Correction	Not Applied		
Navigation Constants MBN-C.J 147			
Last Edited on			
Magnetic Declination	0.00	degrees	East

Accelerometer Parameters MBN-C.J 147

Date Of Last Accelerometer Calibration		24-SEP-2014,15:15		
	X Accelerometer	Y Accelerometer	Z Accelerometer	
Slope	-1.093495	-1.104439	-1.108429	
Offset	-0.005061	0.007261	0.005023	

Accelerometer Constants MBN-C.J 147 Last Edited on 26-DEC-2014,05:46

Accelerometer Calibrator Number		000			
Accelerometer Temperature Characterisation					
X Accelerometer					
Serial Number		998			
Calibration Date		10-Feb-2011			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	-2.93165e-006	1.83358e-008	-1.56325e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.65652e-004	3.05137e-007	9.74344e-010	
Y Accelerometer					
Serial Number		991			
Calibration Date		20-Jan-2011			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	-7.60379e-006	8.26132e-010	-1.48425e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.64942e-004	3.01983e-007	6.89349e-010	
Z Accelerometer					
Serial Number		1058			
Calibration Date		27-Apr-2011			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	-1.12500e-007	-2.53883e-008	2.83285e-010	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.66109e-004	2.28065e-007	1.34528e-009	

Magnetometer Parameters MBN-C.J 147

Date Of Last Magnetometer Calibration		24-SEP-2014,17:14		
	X Magnetometer	Y Magnetometer	Z Magnetometer	
Slope	-1.000000	1.011453	1.004706	
Offset	-0.000017	0.015729	0.010024	

Magnetometer Constants MBN-C.J 147 Last Edited on

Magnetometer Calibrator Number		000		
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Caliper Calibration MTC-B.J 217 Base Calibration on 25-DEC-2014 19:16 Field Calibration on 25-DEC-2014 19:18

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	13499	4.01
2	16101	5.97
3	18822	7.96
4	21460	9.86
5	24442	11.92
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.92	7.96

Caliper Calibration Tolerances MTC-B.J 217

Short Arm Field Cal.	7.92	<div> <div>7.76</div> <div>7.96</div> <div>8.16</div> </div>	in
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FE Calibration MFE-C.A 402 Base Calibration on 02-DEC-2014 10:14 Field Check on 25-DEC-2014 18:52

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	965.6	126.8

Base Check

281.1

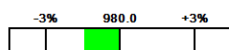
Field Check

281.1

FE Calibration Tolerances MFE-C.A 402

Reference 2

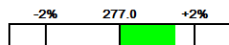
965.6



ohm

Base Check

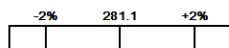
281.1



ohm-m

Field Check

281.1



ohm-m

FE Constants MFE-C.A 402

Last Edited on 27-DEC-2014,18:02

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 Corrected

Temp. for Rm Corr.

MGS External Temperature

Stand-off

0.5

inches

Induction Calibration MAI-B.J 373

Base Calibration on 23-MAY-2013,13:58

Field Check on 25-DEC-2014 18:50

Base Calibration

Test Loop Calibration

Measured

Calibrated (mmho/m)

Channel

Low

High

Low

High

1

16.5

473.7

9.3

966.2

2

5.8

387.3

7.6

821.4

3

3.2

259.3

5.2

566.0

4

1.4

131.7

2.6

279.2

Array Temperature

77.4

Deg F

Test Loop Calibration Verified

Channel

Base Check (mmho/m)

Field Check (mmho/m)

Low

High

Low

High

1

15.8

3844.2

12.0

3844.1

2

30.9

3489.8

30.1

3492.5

3

29.4

3058.4

29.0

3061.1

4

20.9

2098.6

20.8

2101.1

Deep

19.1

2056.7

18.7

2058.8

Medium

41.7

3989.4

41.6

3993.1

Shallow

44.8

5069.0

43.7

5072.4

Array Temperature

87.3

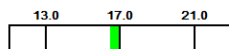
30.2

Deg F

Induction Calibration Tolerances MAI-B.J 373

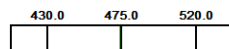
Low Conductivity 1

16.5



mmho/m High Conductivity 1

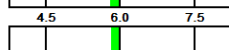
473.7



mmho/m

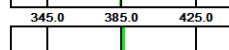
Low Conductivity 2

5.8



mmho/m High Conductivity 2

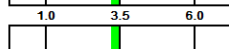
387.3



mmho/m

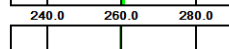
Low Conductivity 3

3.2



mmho/m High Conductivity 3

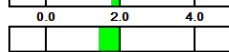
259.3



mmho/m

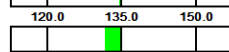
Low Conductivity 4

1.4



mmho/m High Conductivity 4

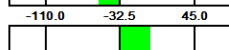
131.7



mmho/m

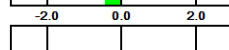
Background Vx 1

0.0



mmho/m Phase Check Loop 1

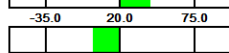
0.0



%

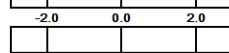
Background Vx 2

0.0



mmho/m Phase Check Loop 2

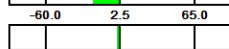
0.0



%

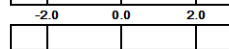
Background Vx 3

0.0



mmho/m Phase Check Loop 3

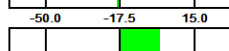
0.0



%

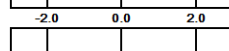
Background Vx 4

0.0



mmho/m Phase Check Loop 4

0.0



%

Induction Constants MAI-B.J 373

Last Edited on 27-DEC-2014,18:02

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

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 Global Value: Temperature Corrected		
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)	1.70	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	1.00	ohm-m
Resistivity of Mud Filtrate for Sw	1.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	
High Resolution Temperature Calibration MAI-B.J 373		
		Field Calibration on 25-APR-2014,13:47
	Measured	Calibrated(Deg F)
Lower	20.00	20.00
Upper	200.00	200.00
High Resolution Temperature Constants MAI-B.J 373		
		Last Edited on 25-APR-2014,13:47
Pre-filter Length	11	
Caliper Calibration MPD-C.A 254		
		Base Calibration on 03-DEC-2014 11:32
		Field Calibration on 26-DEC-2014 07:32
Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	15288	4.01
2	23580	5.97
3	32064	7.96
4	40160	9.86
5	49472	11.92
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.93	7.96
Caliper Calibration Tolerances MPD-C.A 254		
Long Arm Field Cal.	7.93	<div> <div>7.56</div> <div>7.96</div> <div>8.36</div> </div> in
Photo Density Calibration MPD-C.A 254		
		Base Calibration on 03-DEC-2014 10:25
		Field Check on 26-DEC-2014 07:29
Density Calibration		
Base Calibration	Measured	Calibrated (sdu)
	Near Far	Near Far
Background	1195 1414	
Reference 1	58668 28461	59443 30683
Reference 2	23596 2658	25113 2508
Field Check at Base		

1194.6 1413.6

Field Check

1199.4 1412.9

PE Calibration

Base Calibration

Measured

Calibrated

	WS	WH	Ratio
Background	218	1071	
Reference 1	24718	58475	0.427
Reference 2	6769	23460	0.293

Ratio

0.372

0.268

Field Check at Base

217.8 1071.2

Field Check

216.9 1075.7

Photo Density Calibration Tolerances MPD-C.A 254

Near Density Ratio	2.57	<div> <div>-5%</div> <div>2.52</div> <div>+5%</div> </div>
PE Calibration	0.121	<div> <div>0.089</div> <div>0.110</div> <div>0.131</div> </div>

Far Density Ratio	21.74	<div> <div>-5%</div> <div>21.00</div> <div>+5%</div> </div>
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Near Den. Field Check	1199.4	<div> <div>-3%</div> <div>1194.6</div> <div>+3%</div> </div>
PE WS Field Check	216.9	<div> <div>-6%</div> <div>217.8</div> <div>+6%</div> </div>

Far Den. Field Check	1412.9	<div> <div>-3%</div> <div>1413.6</div> <div>+3%</div> </div>
PE WH Field Check	1075.7	<div> <div>-6%</div> <div>1071.2</div> <div>+6%</div> </div>

Density Constants MPD-C.A 254

Last Edited on 27-DEC-2014,17:55

Density Source Id	P56140B	
Nylon Calibrator Number	652	
Aluminium Calibrator Number	659	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.49	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Matrix Density (gm/cc)	Depth (ft)	
2.68	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Dipole Constants and Gains MRD-B.A 177

Logging Mode	Standard	
Semblance Parameters		
Window Start	1.00	milliseconds
Window Width	15	milliseconds
Waveforms Used as Semblance Input		
Receiver Station 1	YES	
Receiver Station 2	YES	
Receiver Station 3	YES	
Receiver Station 4	YES	

Discriminator Levels

M1C Discriminator	0.1	mV
M2C Discriminator	0.1	mV
M3C Discriminator	0.1	mV
M4C Discriminator	0.1	mV

Monopole Receiver Element Gains

MR1A	1.00	MR1B	1.00	MR1C	1.00	MR1D	1.00
MR2A	1.00	MR2B	1.00	MR2C	1.00	MR2D	1.00
MR3A	1.00	MR3B	1.00	MR3C	1.00	MR3D	1.00
MR4A	1.00	MR4B	1.00	MR4C	1.00	MR4D	1.00
MR5A	1.00	MR5B	1.00	MR5C	1.00	MR5D	1.00
MR6A	1.00	MR6B	1.00	MR6C	1.00	MR6D	1.00
MR7A	1.00	MR7B	1.00	MR7C	1.00	MR7D	1.00
MR8A	1.00	MR8B	1.00	MR8C	1.00	MR8D	1.00

DOWNHOLE EQUIPMENT

C:\LOGS\URSA\VALLEY FARMS L 44B-11-06-92\MMS DEPTH.dta

Drop-off Running Tool

DRT-B.A 127 LG: 9.42 ft WT: 66.1 lb OD: 2.598 in

MBS-F.A 200v Compact Battery Sub

MBS-F.A 123 LG: 17.06 ft WT: 123.5 lb OD: 2.240 in

Compact Memory Sub F.A

MMS-F.A 246 LG: 5.20 ft WT: 37.5 lb OD: 2.244 in

Compact Tool Isolator sub.

MTI-C.A 99 LG: 1.54 ft WT: 13.2 lb OD: 2.244 in

Compact Short Gamma

MGS-C.J 149 LG: 3.41 ft WT: 24.3 lb OD: 2.244 in

Compact Collar Locator

MCL-B.J 51 LG: 3.17 ft WT: 26.5 lb OD: 2.244 in

SKJ-E.A Compact Knuckle Joint

SKJ-E.A 245 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

SHA-J.A Compact Swivel Head Adaptor

SHA-J.A 396 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

MIS-D.B Compact Inline Bowspring sub

MIS-D.B 702 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

Compact Neutron

MDN-B.J 428 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper

MPD-C.A 254 LG: 9.59 ft WT: 90.4 lb OD: 2.244 in

Compact Vee Arm Caliper

MVC-A.A 143 LG: 8.06 ft WT: 61.7 lb OD: 2.244 in

SHA-J.A Compact Swivel Head Adaptor

SHA-J.A 397 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

SKJ-E.A Compact Knuckle Joint

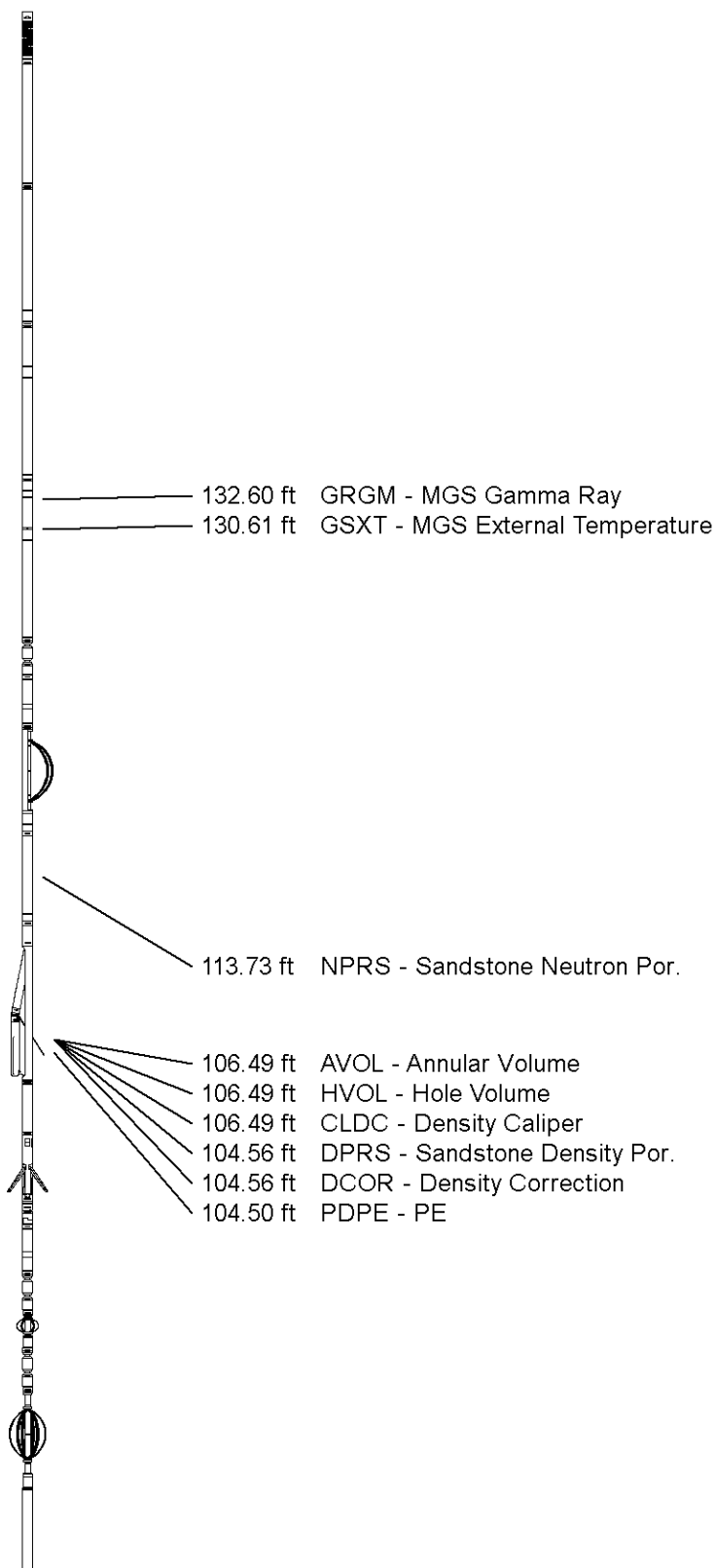
SKJ-E.A 409 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

MIS-E.B Compact Inline Standoff sub

MIS-E.B 691 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

SKJ-E.B Compact Knuckle Joint

SKJ-E.B 588 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in



MIS-D.B Compact Inline Bowspring sub
MIS-D.B 730 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

Compact Navigation
MBN-C.J 147 LG: 11.81 ft WT: 70.5 lb OD: 2.244 in

Compact Two Arm Caliper
MTC-B.J 217 LG: 7.11 ft WT: 61.7 lb OD: 2.244 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 440 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

Compact Dipole Memory
MDM-A.A 132 LG: 4.48 ft WT: 39.7 lb OD: 2.244 in

Compact Dipole Receiver
MRD-B.A 177 LG: 8.89 ft WT: 88.2 lb OD: 2.244 in

Compact Dipole Transmitter
MTD-B.A 177 LG: 12.63 ft WT: 110.2 lb OD: 2.244 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 667 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 66 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

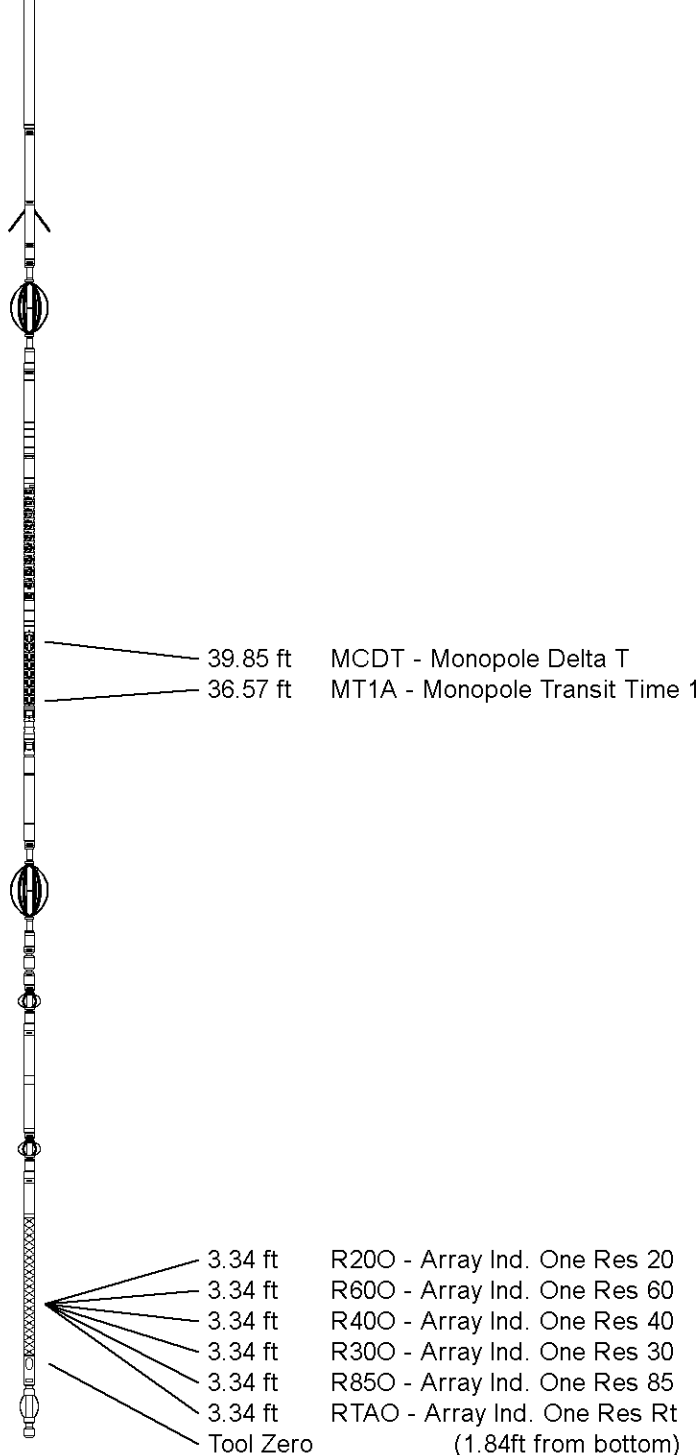
MIS-E.B Compact Inline Standoff sub
MIS-E.B 694 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Focussed Electric
MFE-C.A 402 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 692 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Induction
MAI-B.J 373 LG: 12.52 ft WT: 48.5 lb OD: 2.240 in

Total Length: 168.45 ft Weight: 1280.9 lb



COMPANY	URSA OPERATING COMPANY
WELL	VALLEY FARMS L 44B 11-06-92
FIELD	GRAVEL TREND
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	USA/CO

Elevation Kelly Bushing	5592.00	feet	First Reading	7262.00	feet
Elevation Drill Floor	5592.00	feet	Depth Driller	7288.00	feet
Elevation Ground Level	5577.00	feet	Depth Logger	7288.00	feet



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LOG

