COMPACT TRIPLE COMBO
QUICKLOOK LOG

Weatherford®

COMPANY	CAERUS OIL & GAS
WELL	PUCKETT 42B-2
FIELD	WILDCAT
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	USA / COLORADO
LOCATION	SHL: 2197' FNL & 651' FEL

SEC 2	TWP 7S	RGE 97W	Other Services
Latitude		39.475781	
Longitude		-108.179672	
API Number		05-045-22626	

Permanent Datum GL, Elevation 8477 feet
Log Measured From KB
Drilling Measured From KB @ 30 feet

Elevations:	feet
KB	8507.00
DF	8507.00
GL	8477.00

Date	3-MAY-2015				
Run Number	ONE				
Service Order	8367-117853184				
Depth Driller	8917.00	feet			
Depth Logger	8914.00	feet			
First Reading	8914.00	feet			
Last Reading	10.00	feet			
Casing Driller	2528.00	feet			
Casing Logger	2528.00	feet			
Bit Size	8.750	inches			
Hole Fluid Type	WBM				
Density / Viscosity	9.30	lb/USg	98.00	sec/qt	
PH / Fluid Loss	8.70		5.60	ml/30Min	
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.85 @ 67.9	ohm-m			
Rmf @ Measured Temp	1.48 @ 67.9	ohm-m			
Rmc @ Measured Temp	2.22 @ 67.9	ohm-m			
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.70 @185.0	ohm-m			
Time Since Circulation	4 HOURS				
Max Recorded Temp	185.00	deg F			
Equipment / Base	13173		CASPER		
Recorded By	A. EASTAUGHFFE				C. CULLEN
Witnessed By	G. URBAN				

BOREHOLE RECORD

Last Edited: 03-MAY-2015 08:21

Bit Size inches	Depth From feet	Depth To feet
8.750	2528.00	8917.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
Surface	9.625	0.00	2528.00	36.00

REMARKS

SOFTWARE VERSION 15.01.2520

TOOLS RUN: SEE TOOL DIAGRAM

HARDWARE: MPD: 8" PROFILE PLATE USED
CMI: TWO 6 SPRING BASKETS
MAI: 50" 6 SPRING HOLE FINDER

TIGHT PULL DURING REPEAT PASS RESULTING IN REPEAT PASS NOT LINING UP WITH MAIN PASS

TIGHT PULL AT 4910 FEET: CLOSED VEE ARM CALIPER AND PULL THROUGH

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 SURFACE CASING = 2800 CUBIC FEET

TOTAL ANNULAR VOLUME FROM TD TO SURFACE CASING =2100 CUBIC FEET

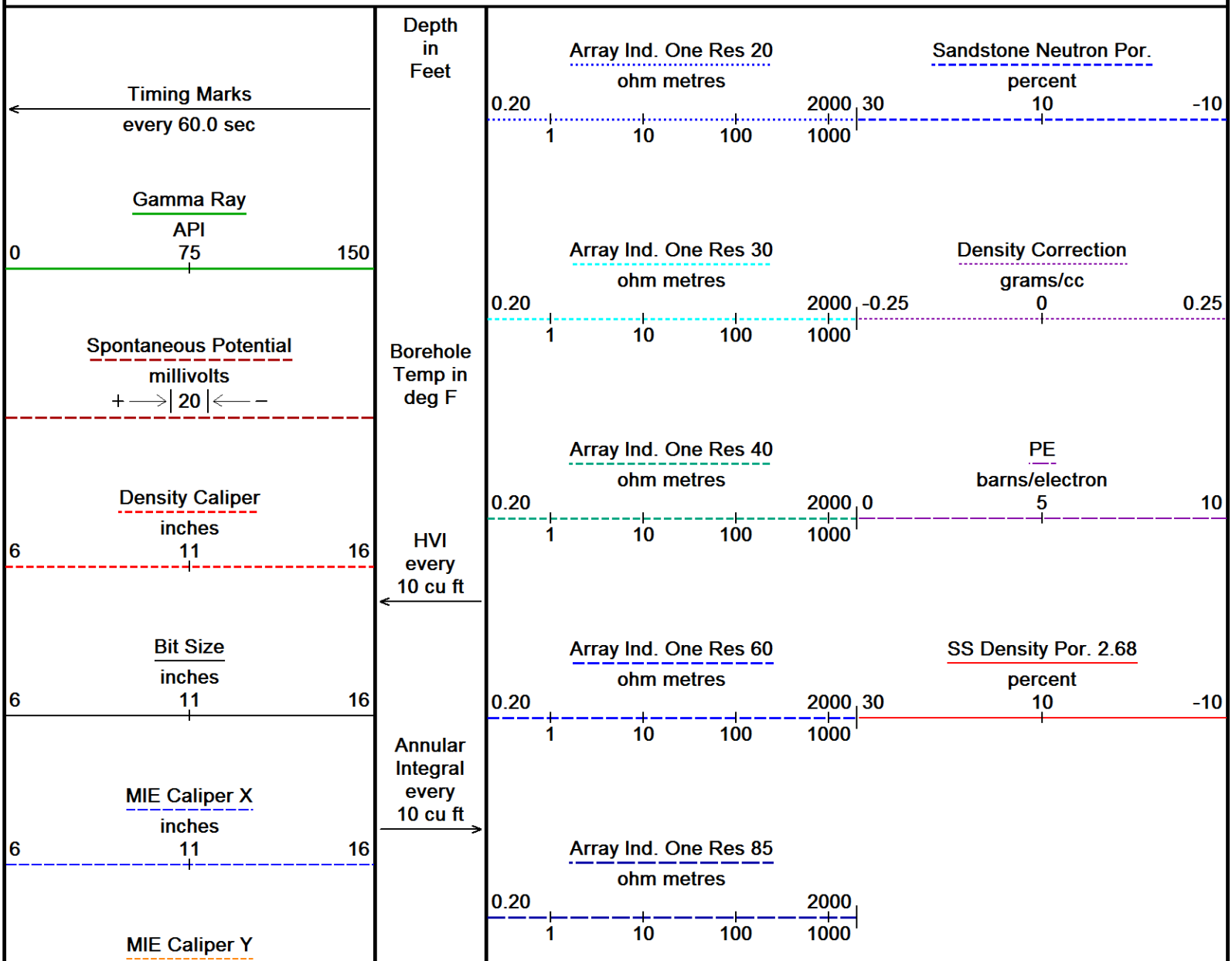
FLUID LEVEL: INSIDE CASING, APPROX 1824FT

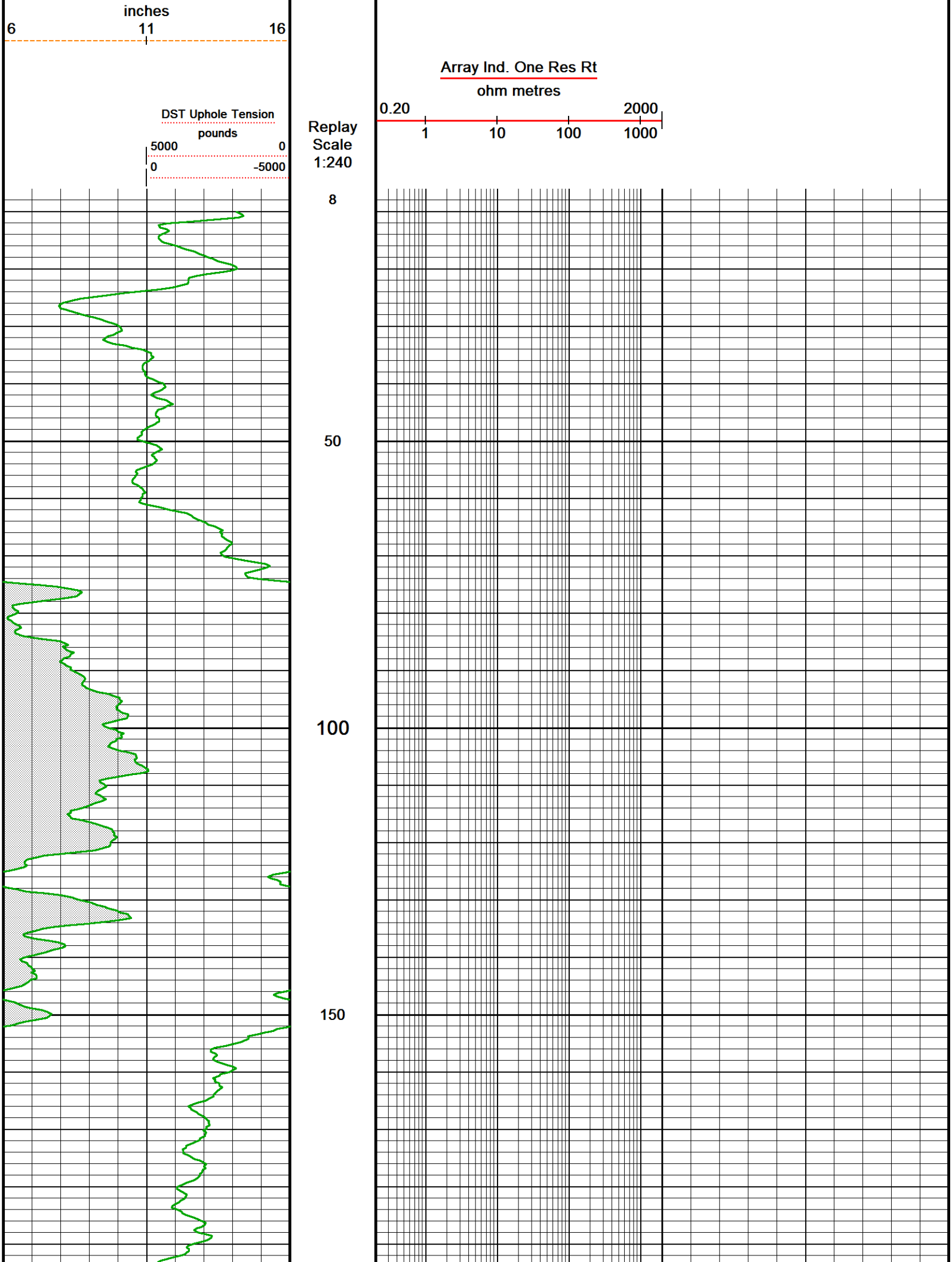
RIG: HP 330

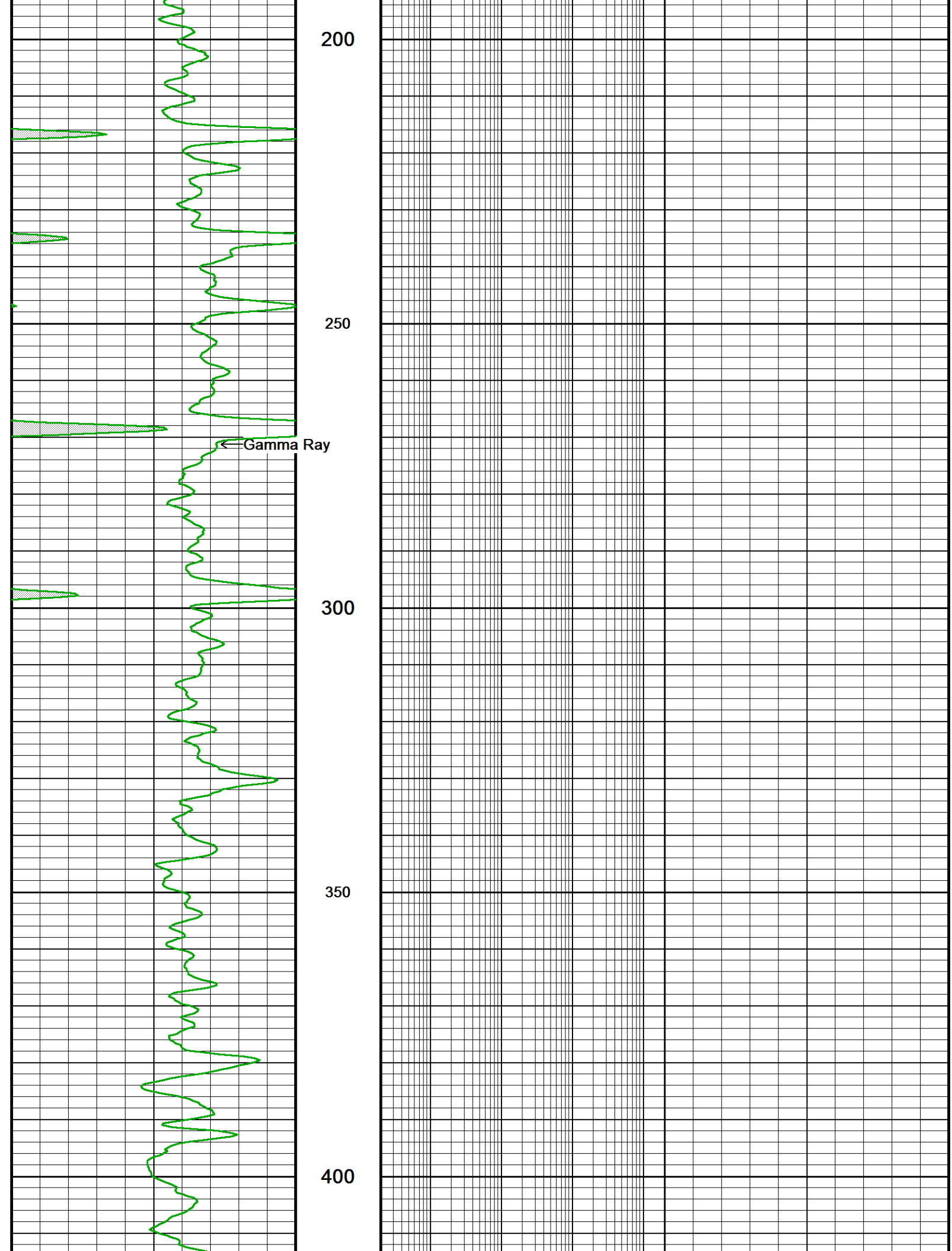
5 INCH MAIN LOG

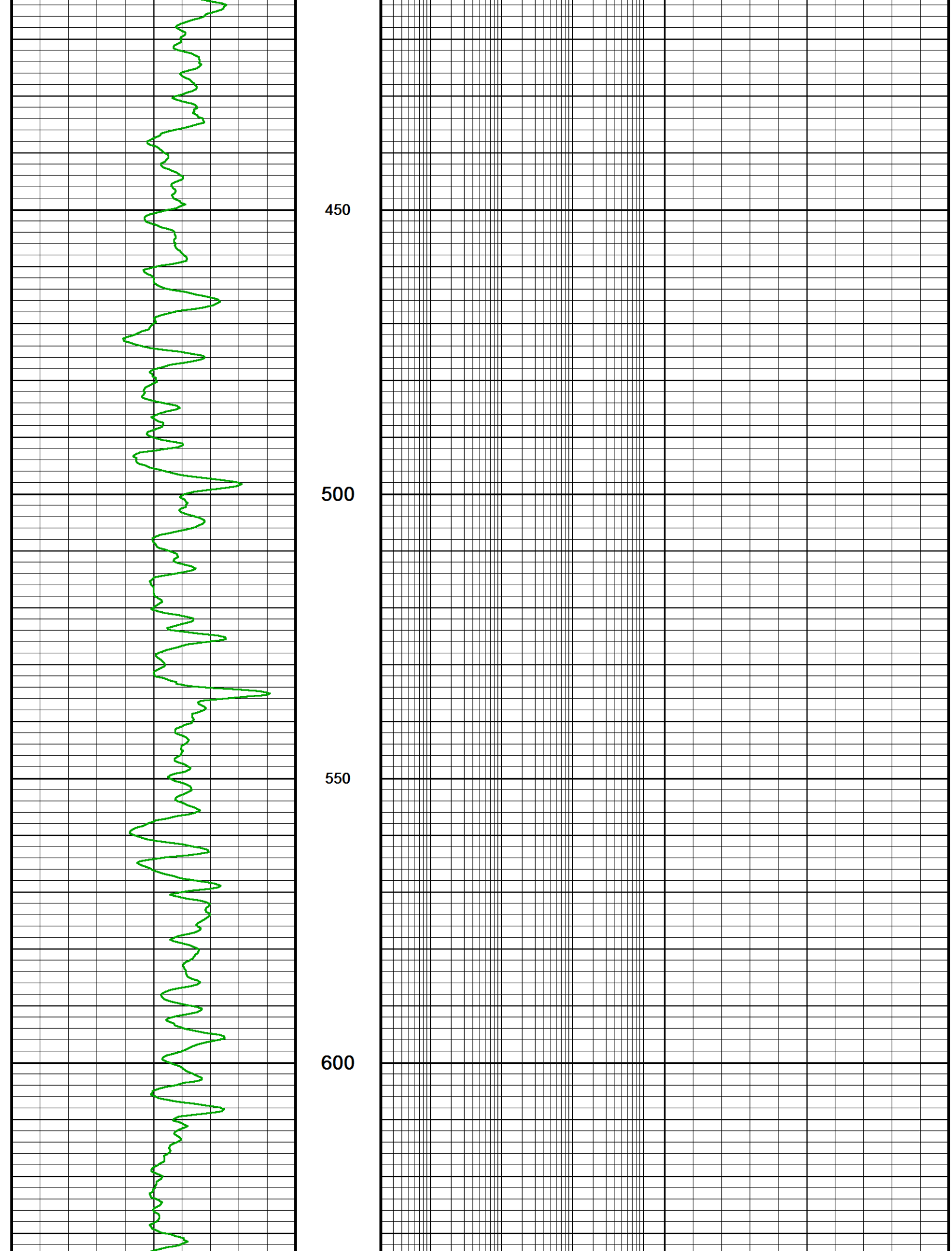
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Logs\CAERUS\PUCKETT 42B-2\SPLICED AND MERGED.dta
System Versions: Plotted with 15.01.2520

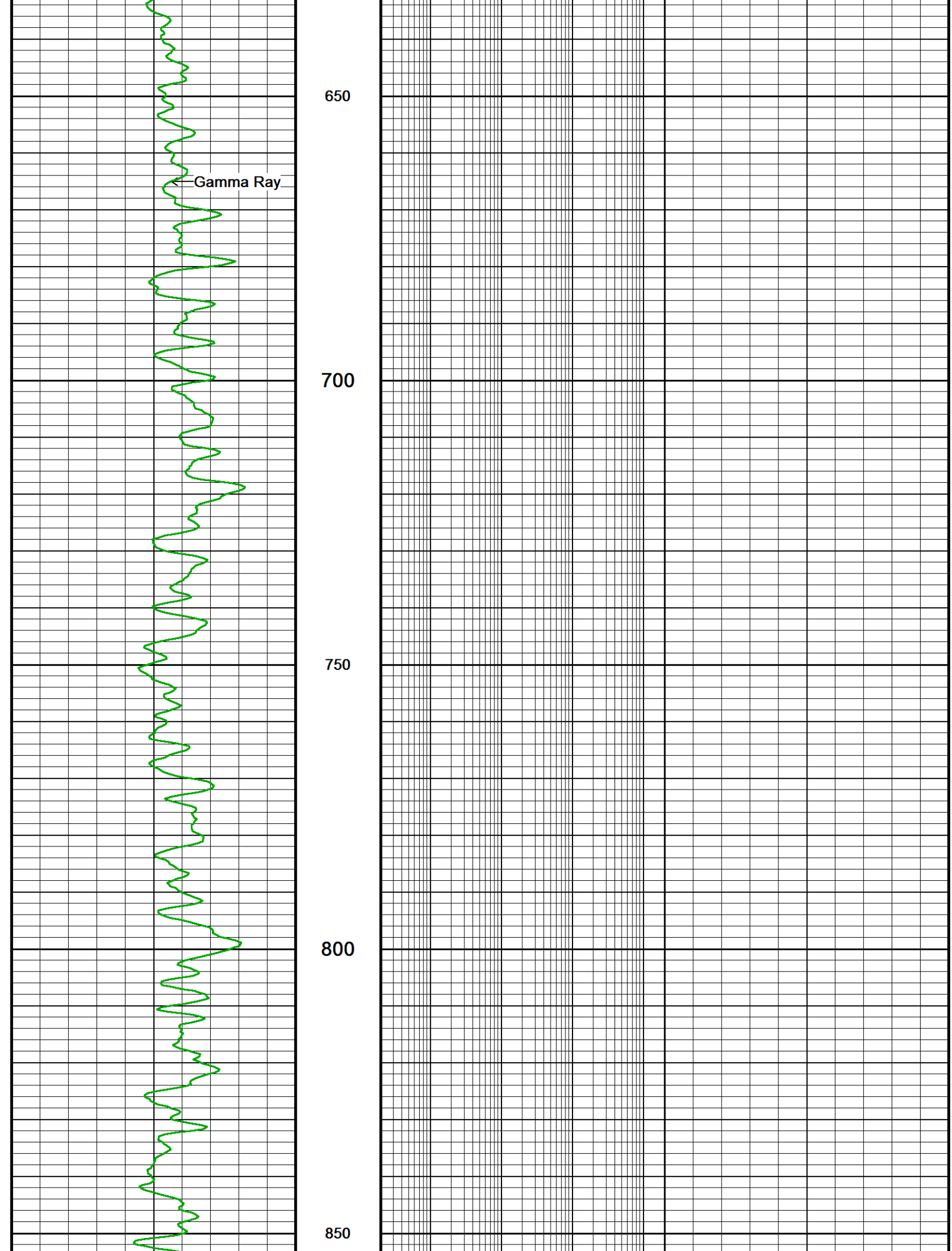
Plotted on 04-MAY-2015 10:29
Recorded on 03-MAY-2015 13:40

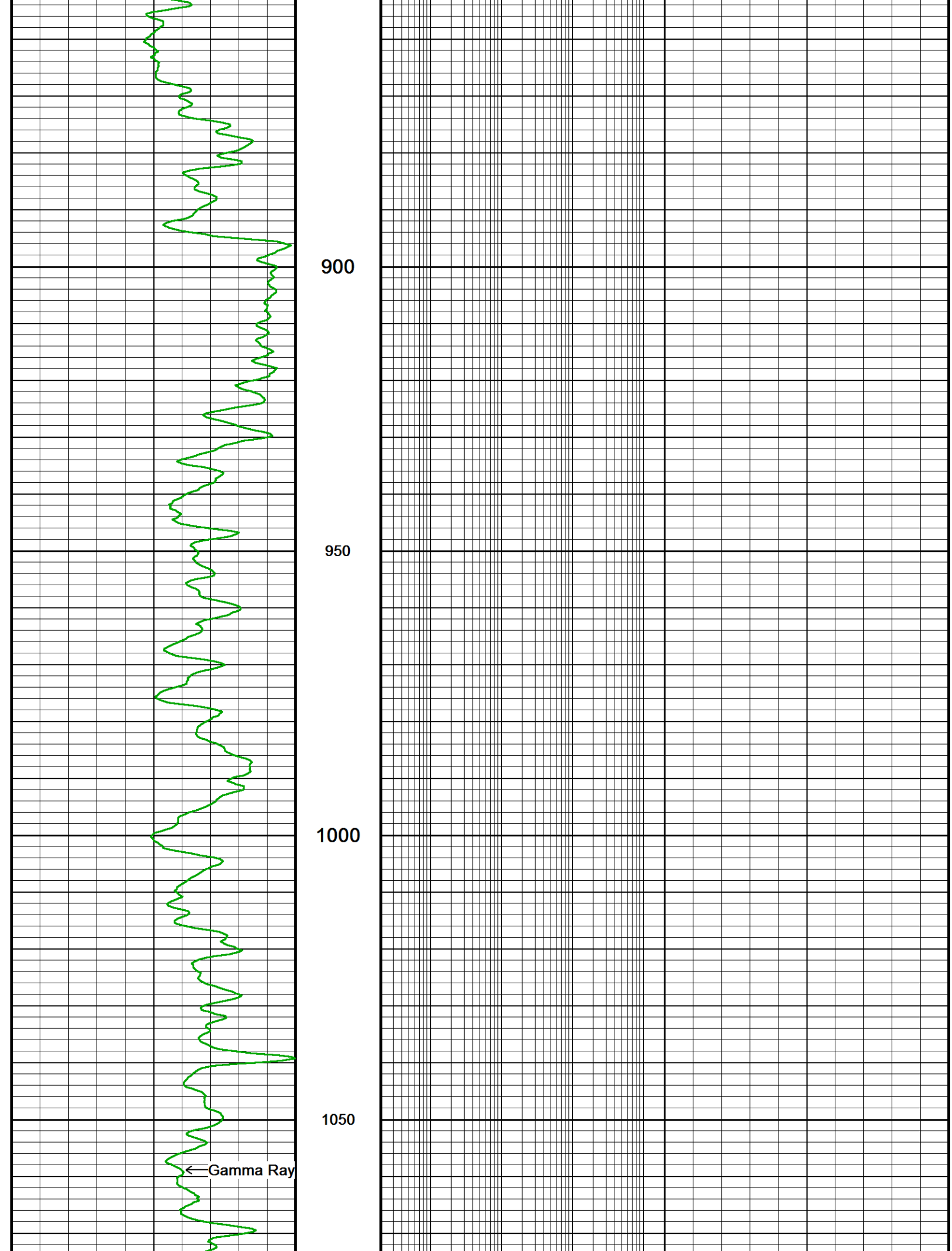


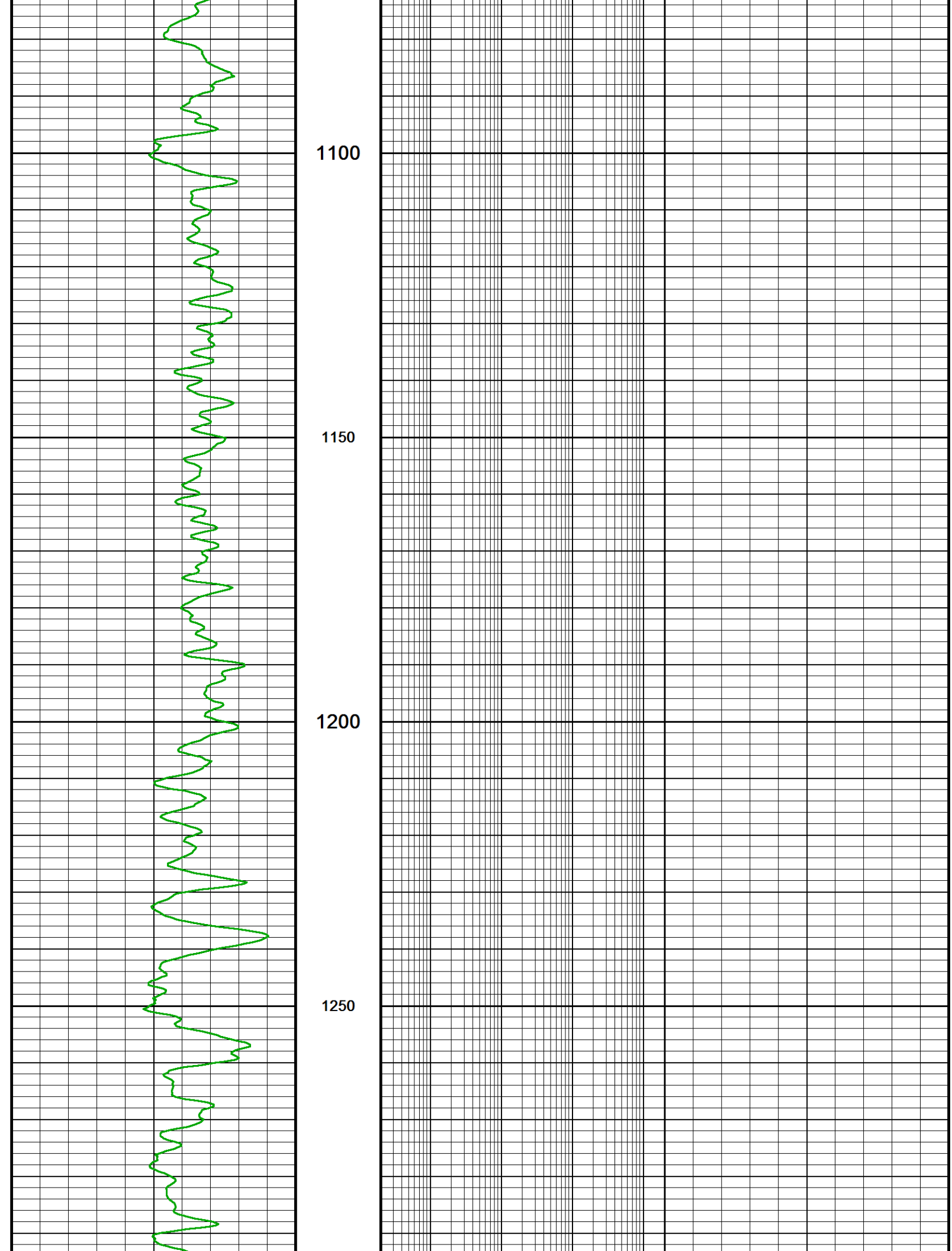

inches
6
11
16
DST Uphole Tension
pounds
5000
0
0
-5000
Replay
Scale
1:240
Array Ind. One Res Rt
ohm metres
0.20
2000
1
10
100
1000
8
50
100
150


200
250
Gamma Ray
300
350
400


450
500
550
600


Gamma Ray
650
700
750
800
850


900
950
1000
1050
←Gamma Ray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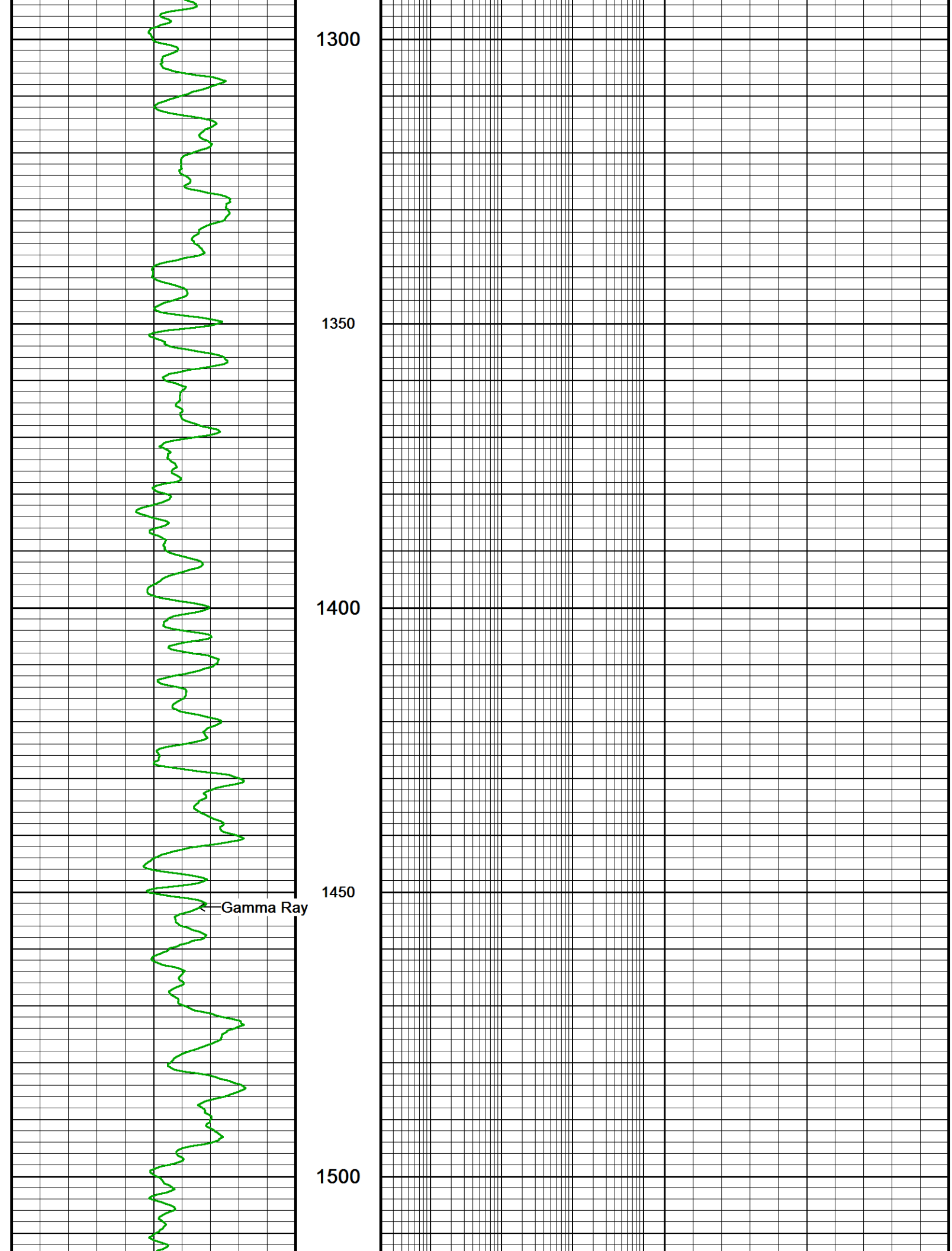
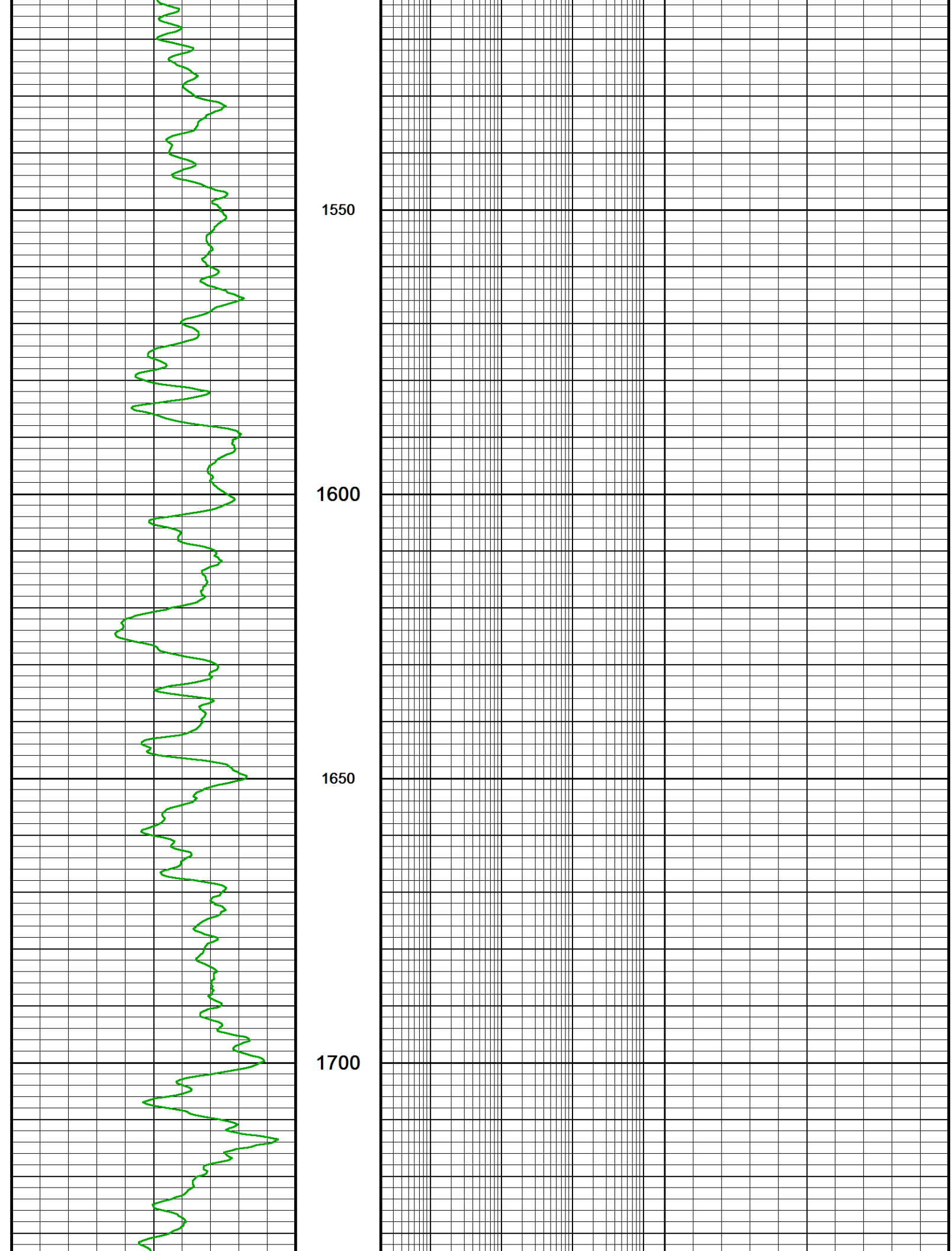
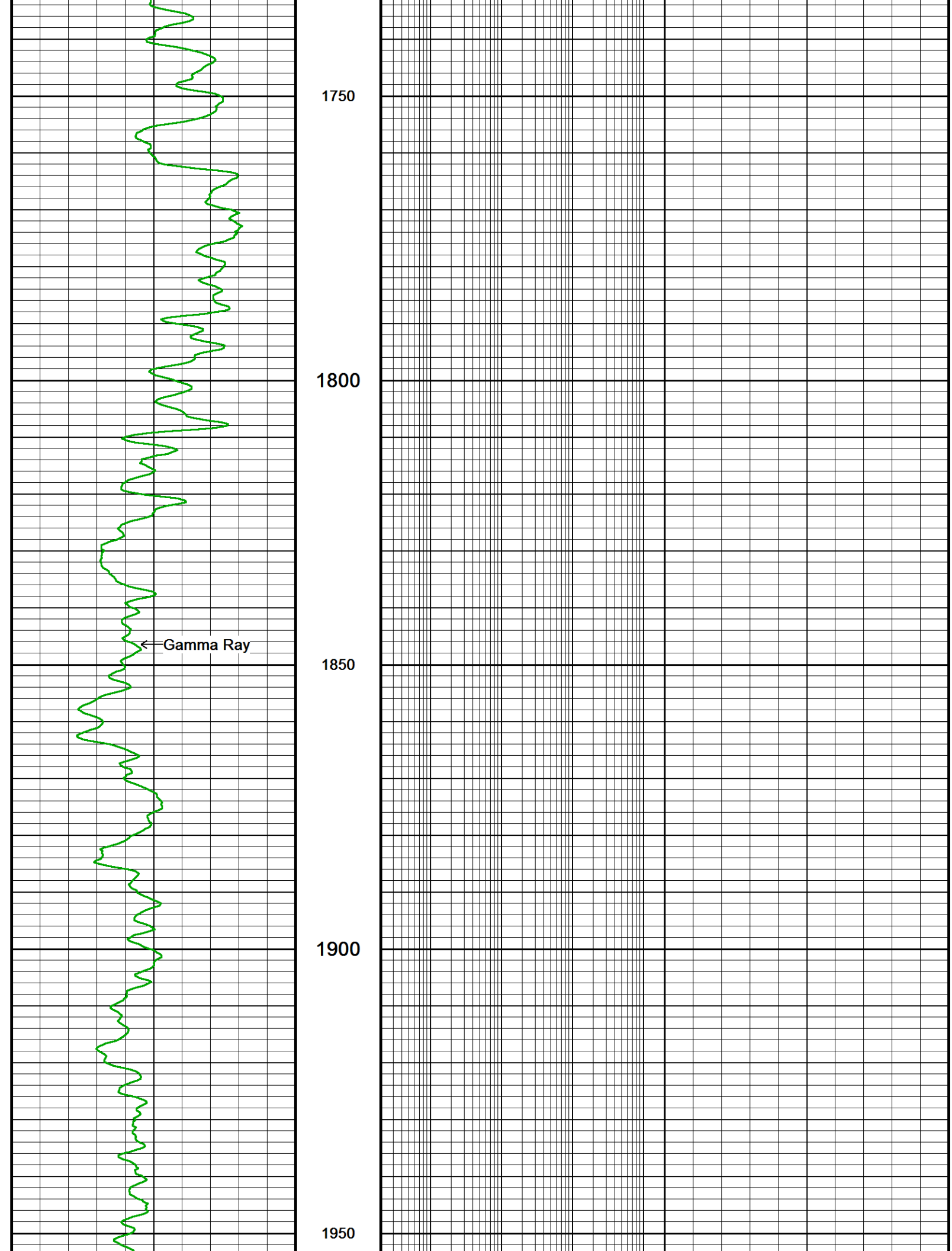
1150
1200
1250


1300
1350
1400
1450
1500
Gamma Ray


1550
1600
1650
1700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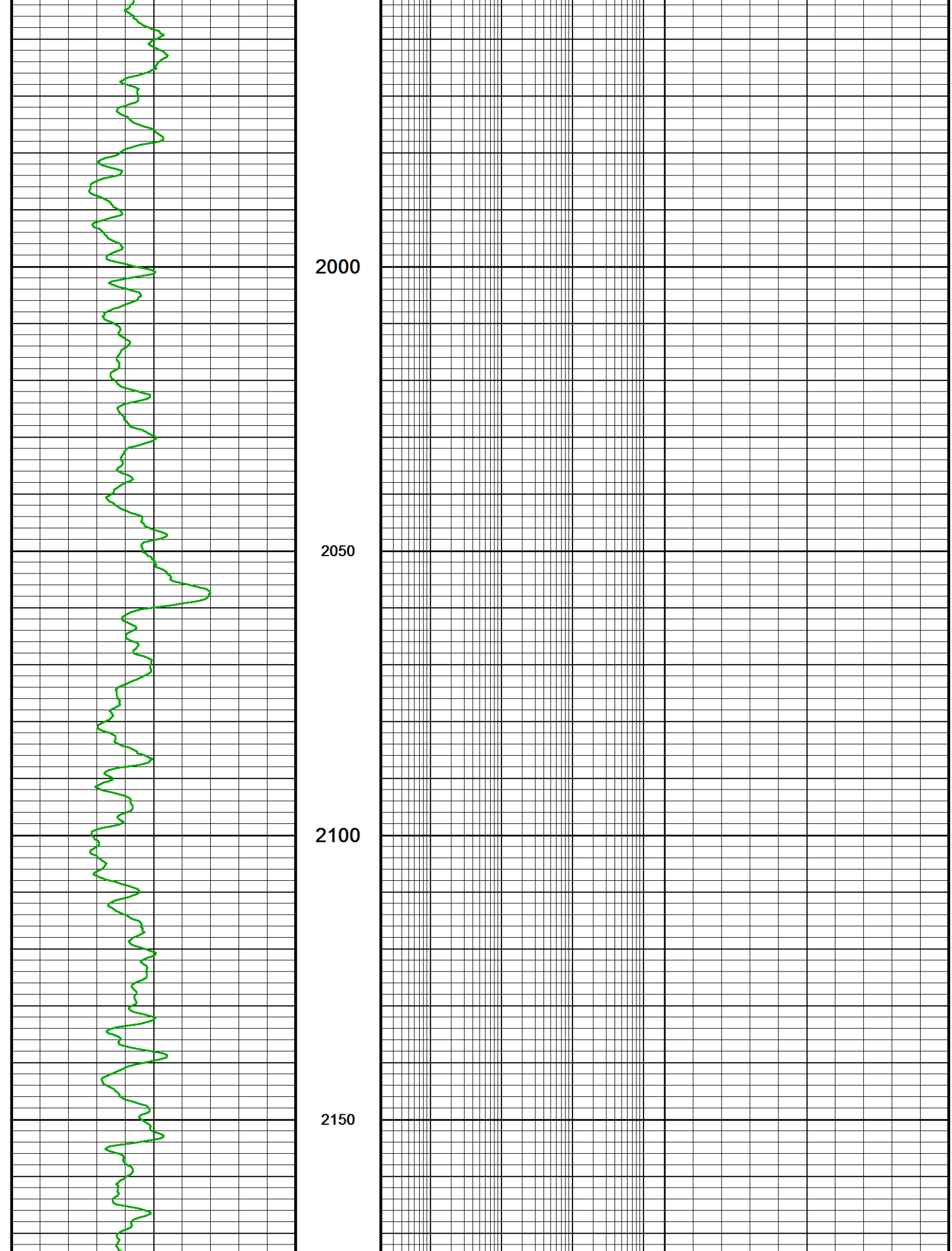
1800
Gamma Ray
1850
1900
1950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2050
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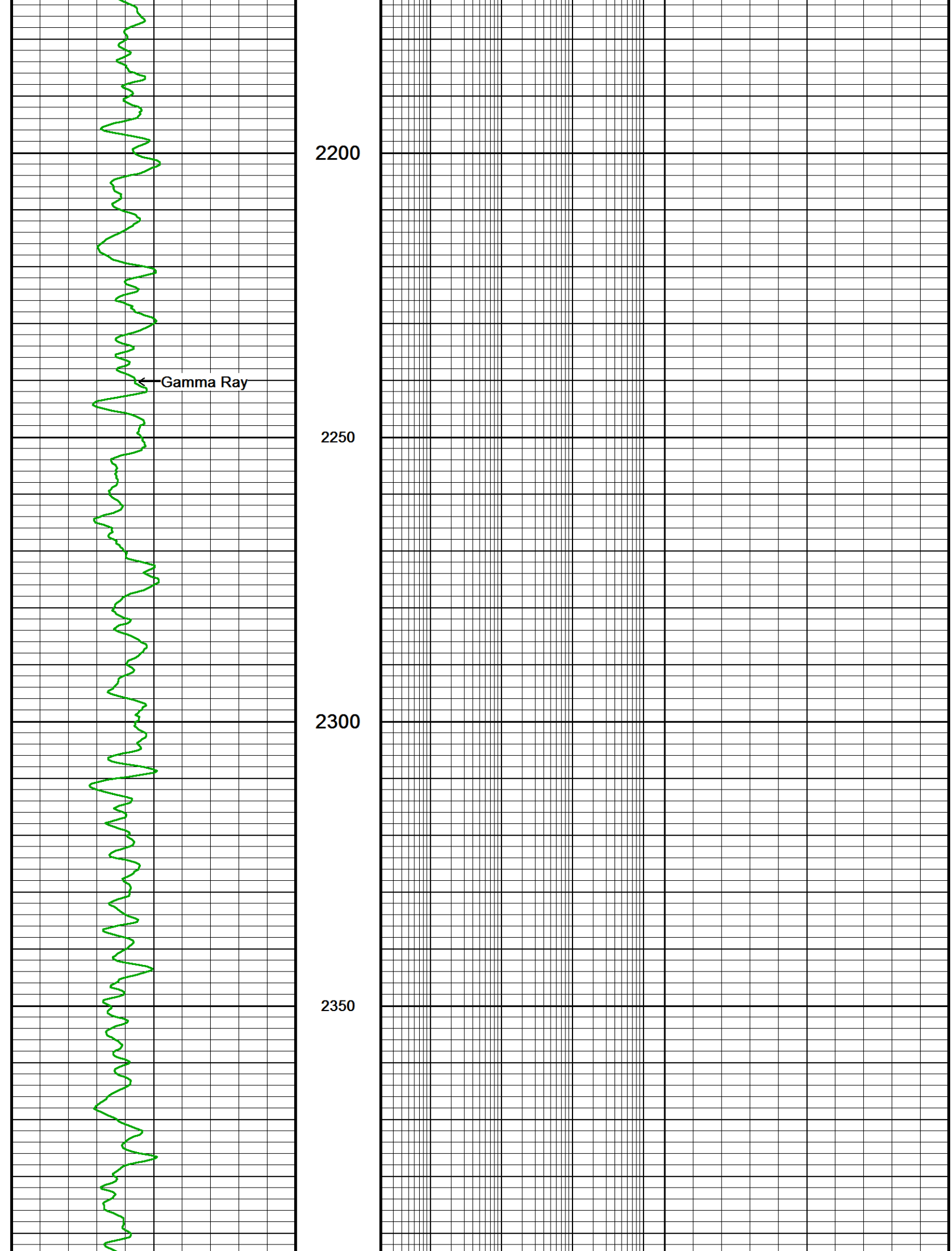
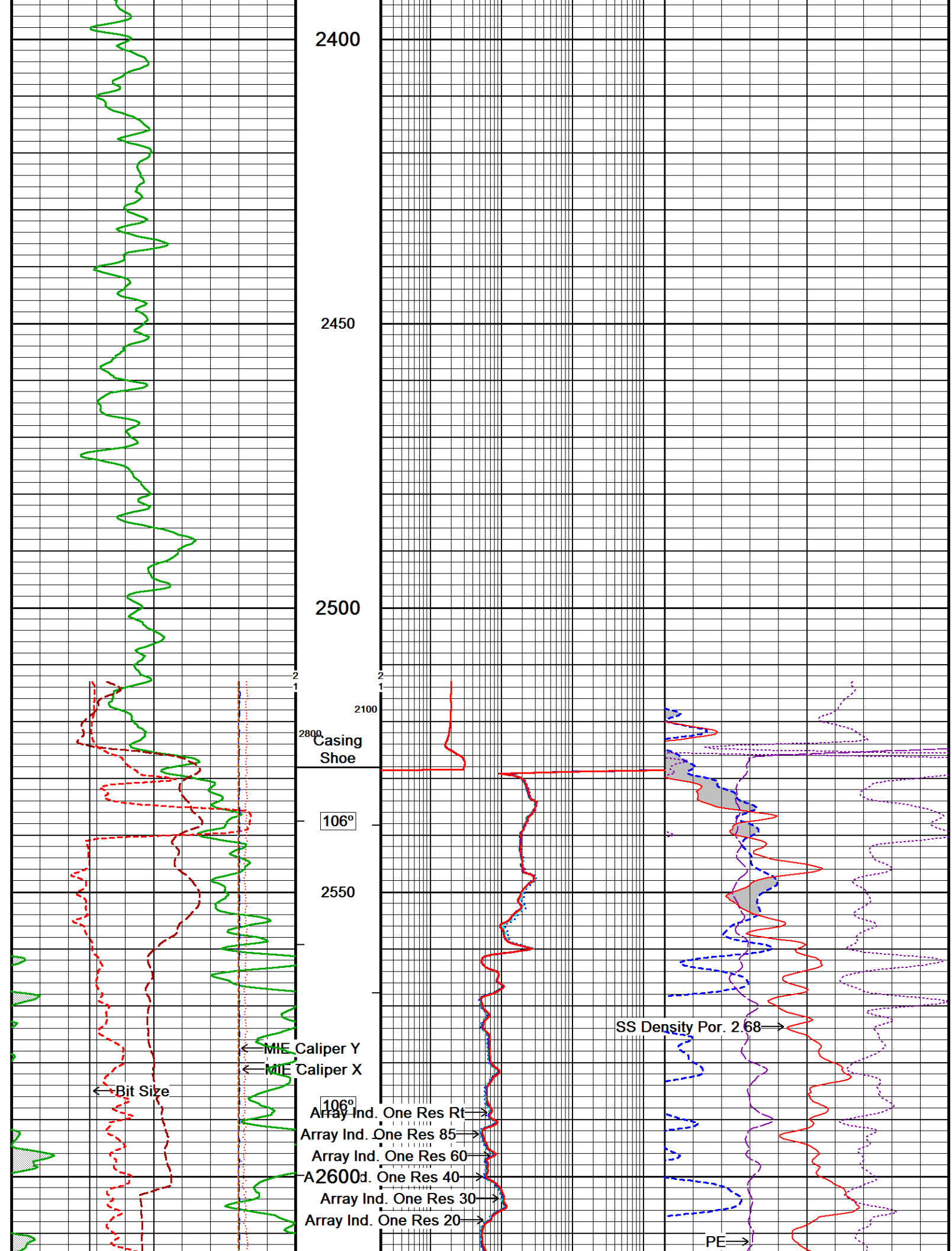

2200
Gamma Ray
2250
2300
2350


2400
2450
2500
2550
2600
2
1
2
1
2100
2800
Casing
Shoe
106°
106°
SS Density Por. 2.68
MIE Caliper Y
MIE Caliper X
Bit Size
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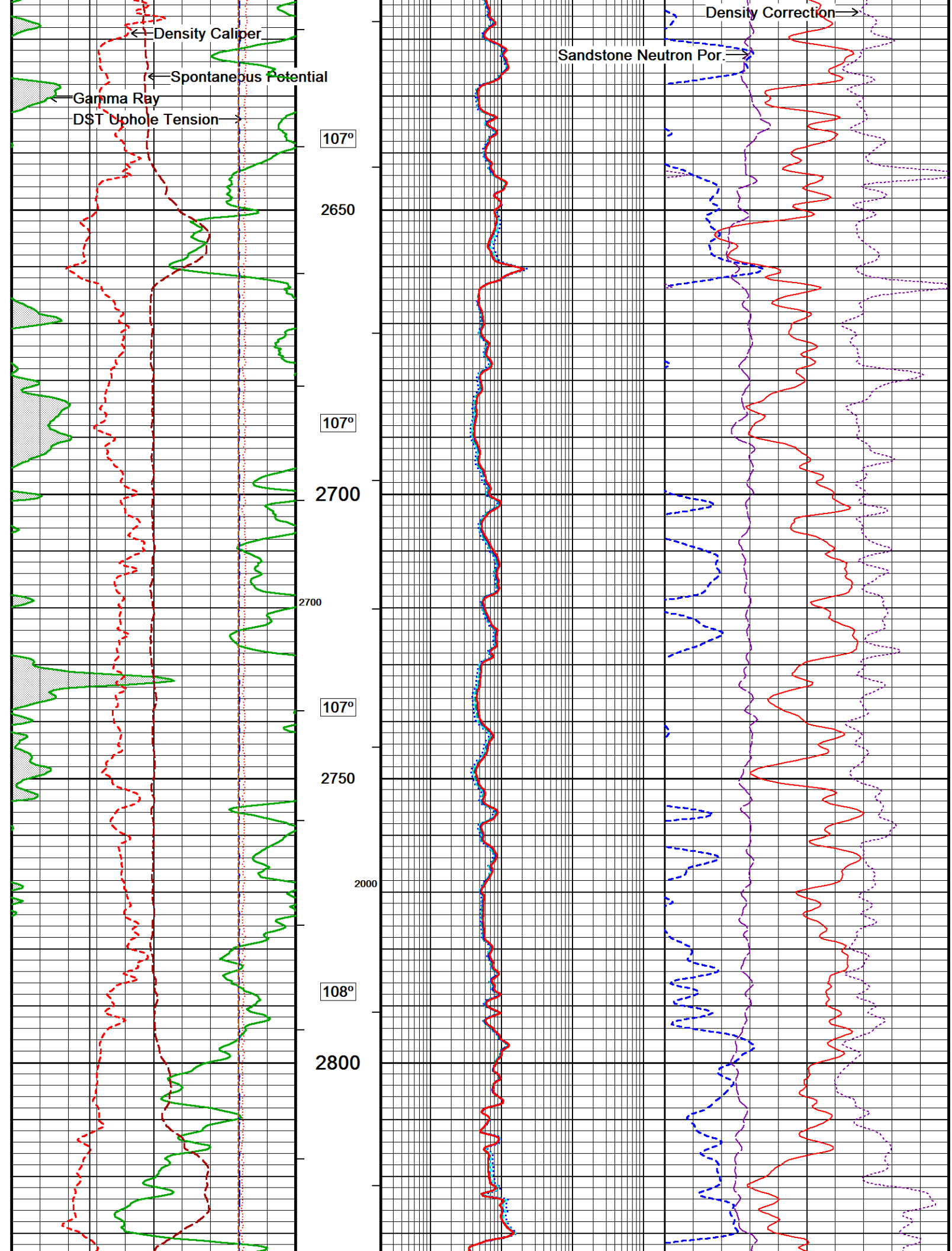
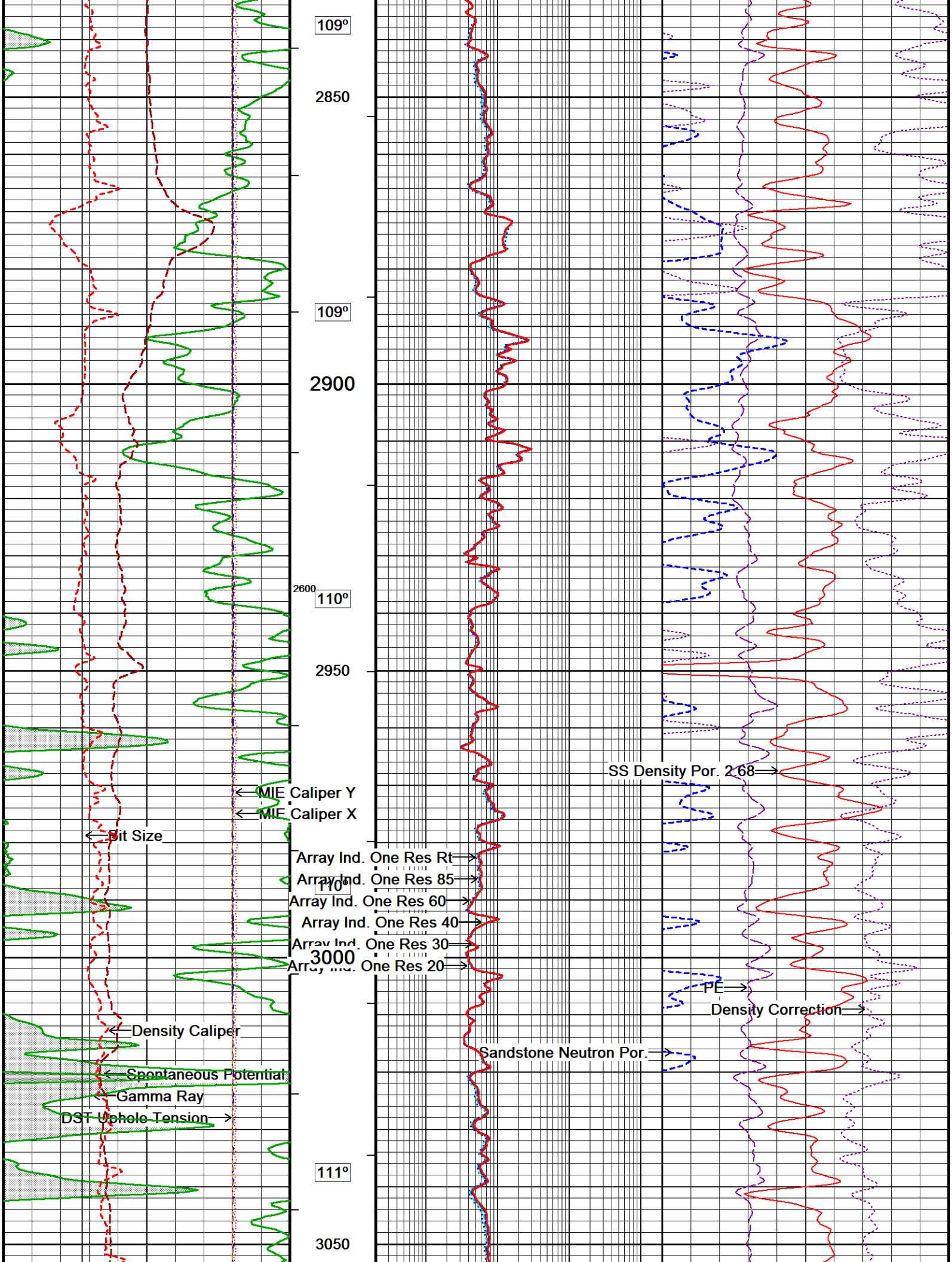
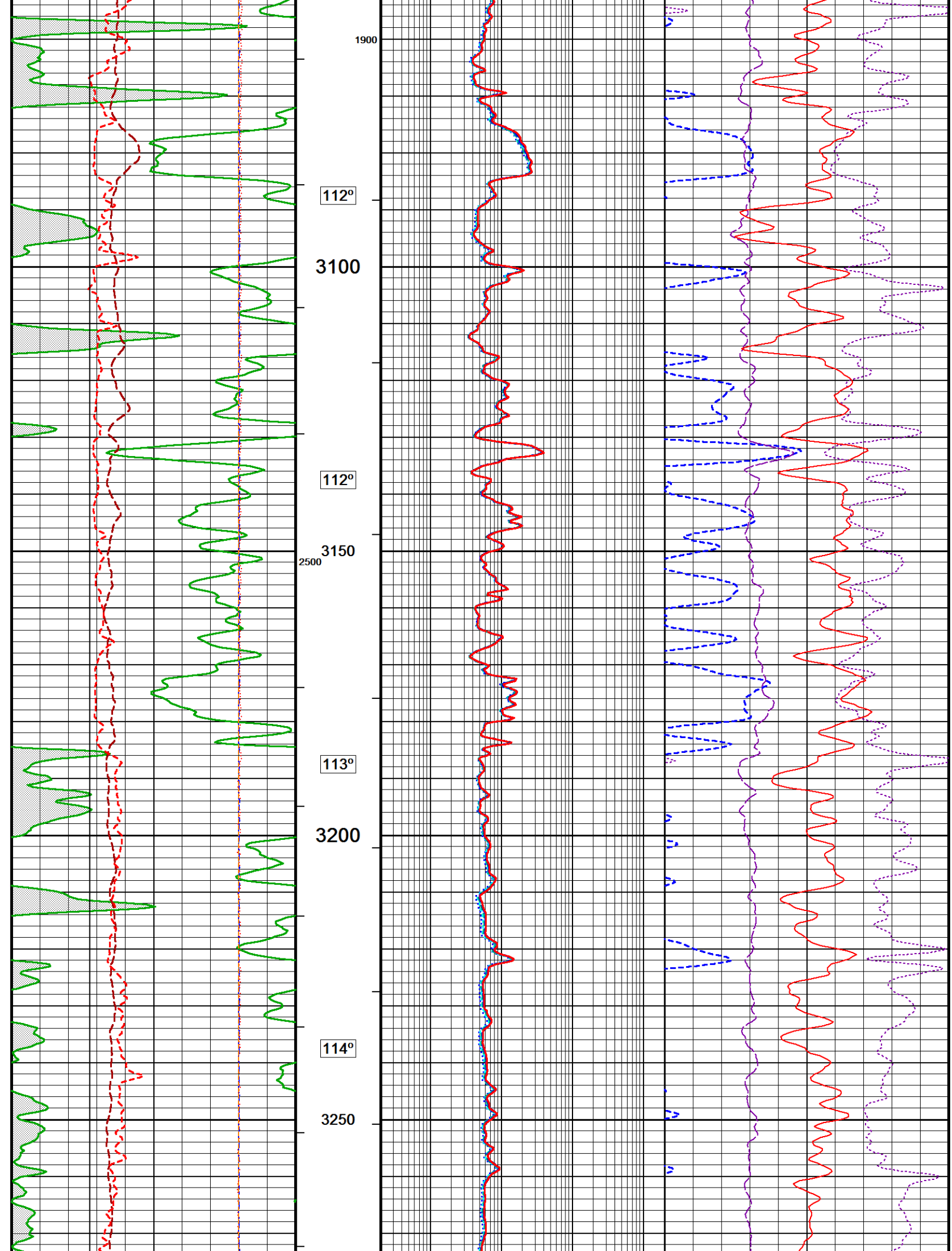
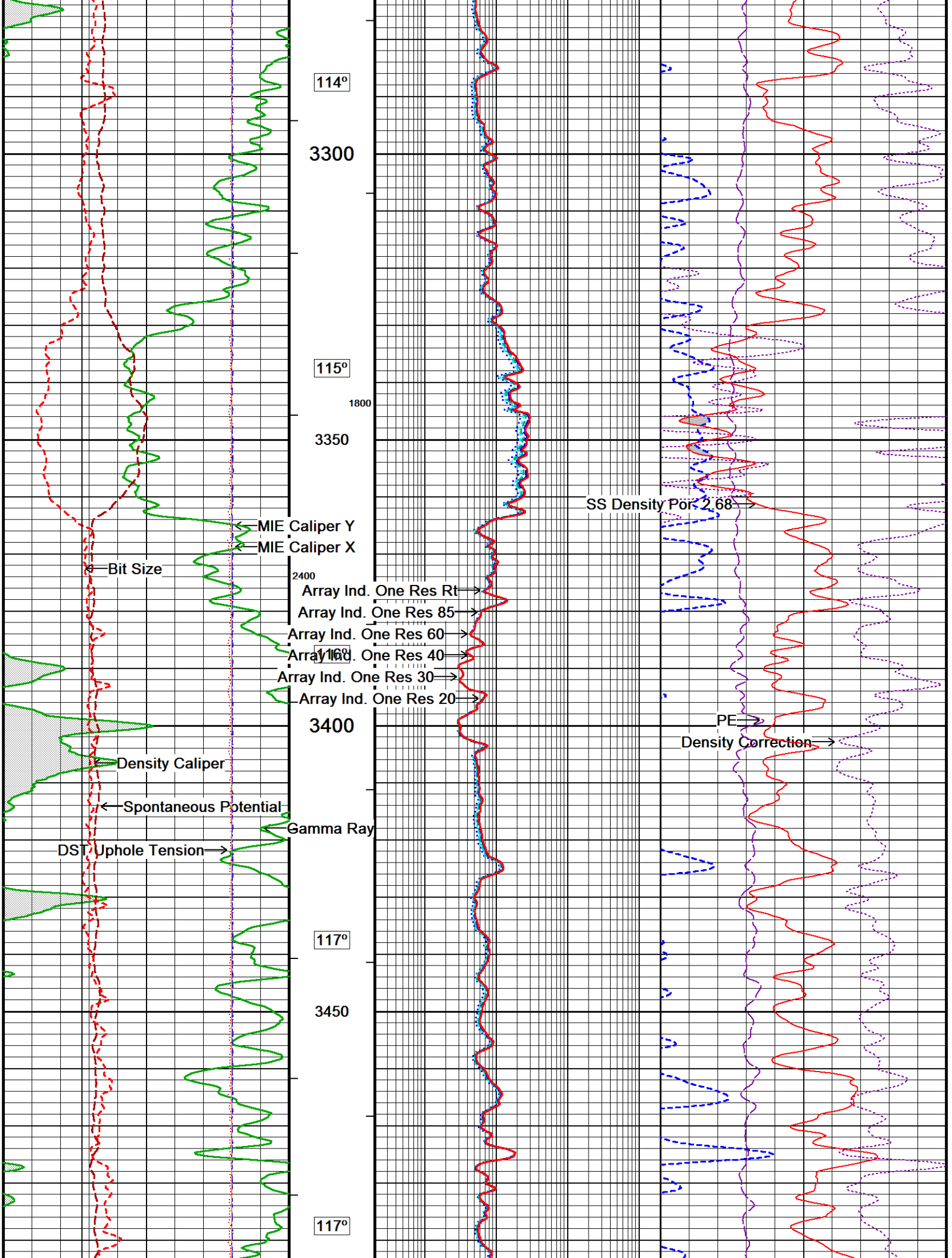
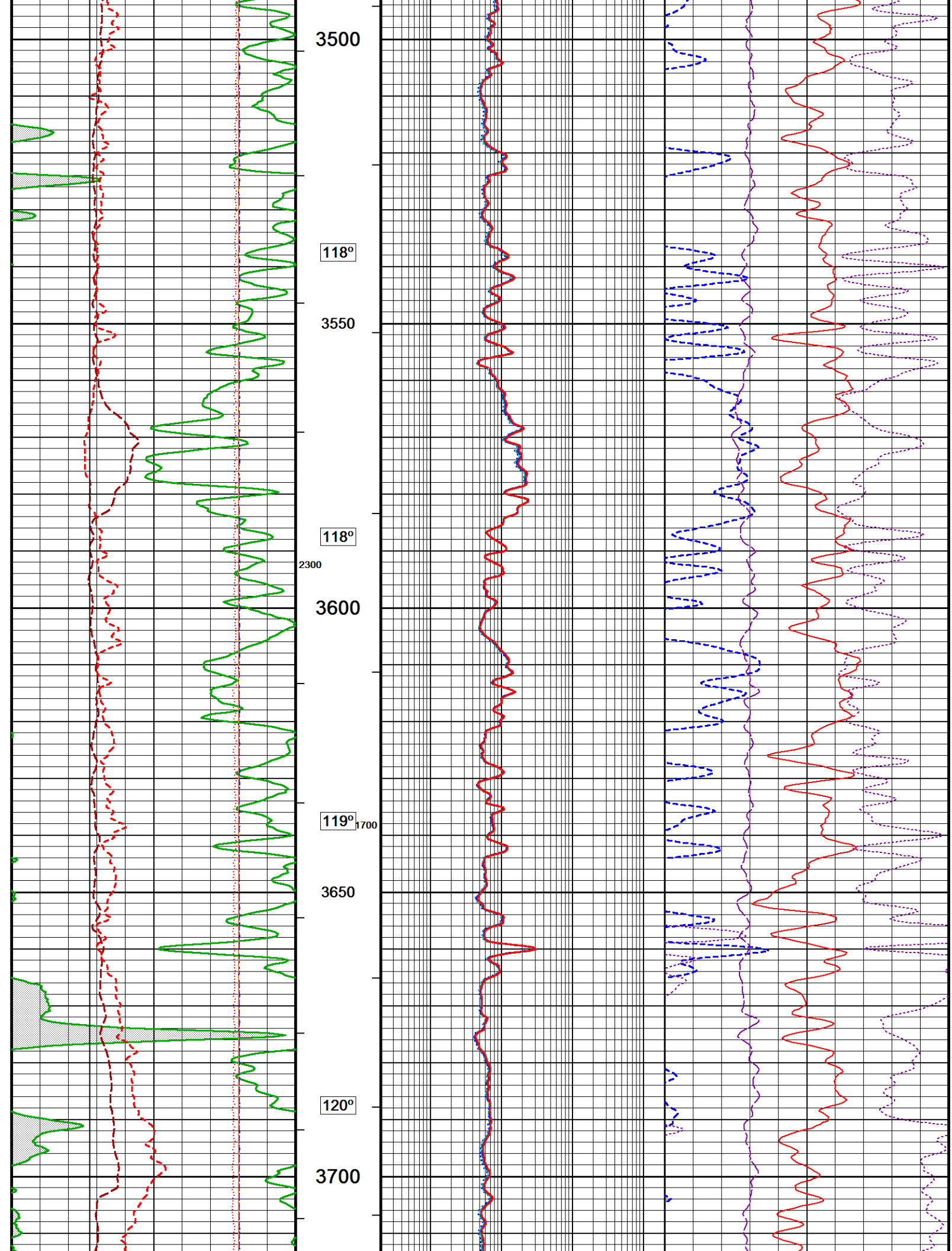
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
PE


Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Density Correction
Sandstone Neutron Por.
107°
2650
107°
2700
2700
107°
2750
2000
108°
2800


109°
2850
109°
2900
2600
110°
2950
MIE Caliper Y
MIE Caliper X
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
110°
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
3000
Array Ind. One Res 20
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
111°
3050
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.


1900
112°
3100
112°
3150
2500
113°
3200
114°
3250


114°
3300
115°
1800
3350
MIE Caliper Y
MIE Caliper X
Bit Size
2400
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
116°
3400
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
117°
3450
117°
SS Density Por 2.68
PE
Density Correction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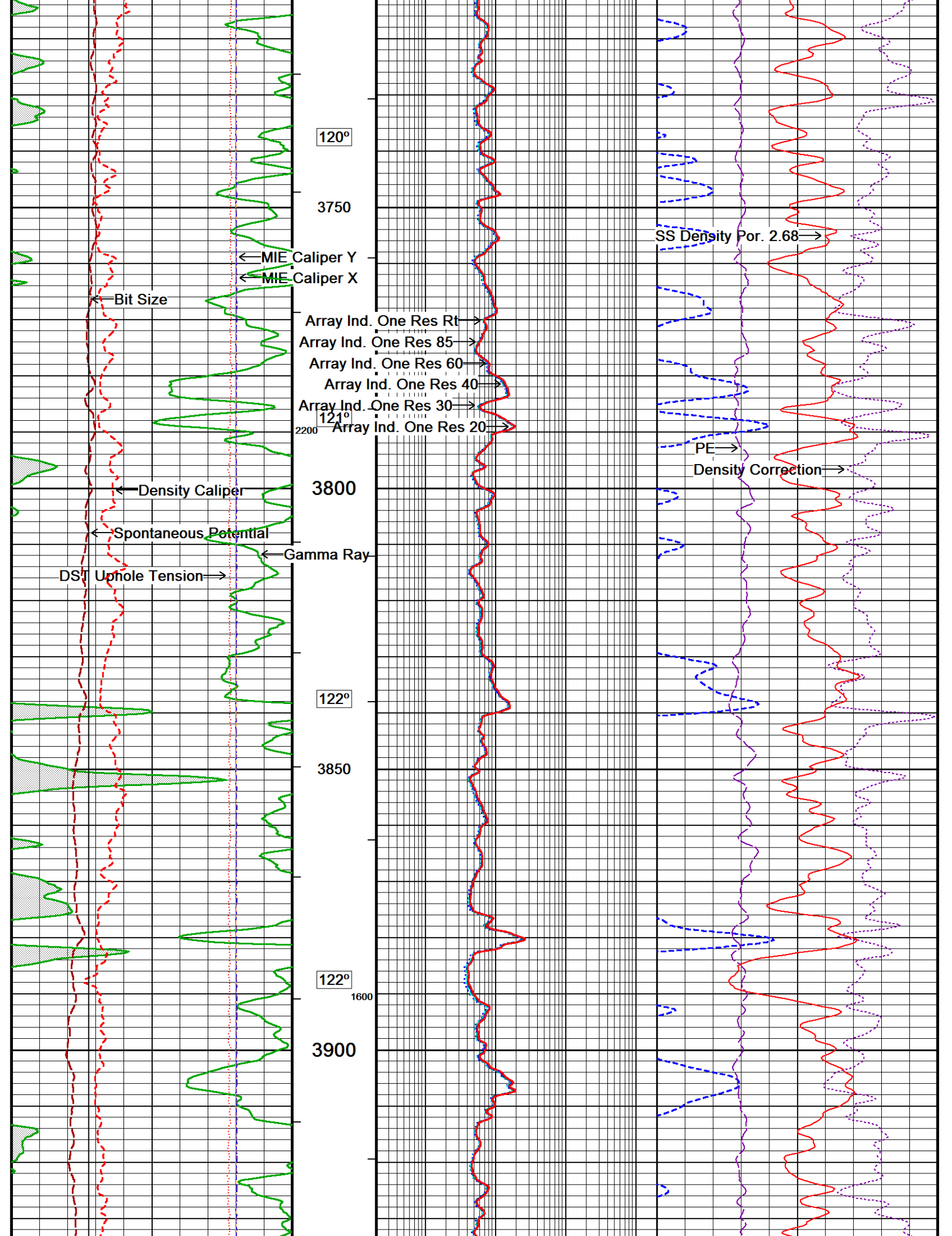
118°
3550
118°
2300
3600
119°
1700
3650
120°
3700


120°
3750
MIE Caliper Y
MIE Caliper X
Bit Size
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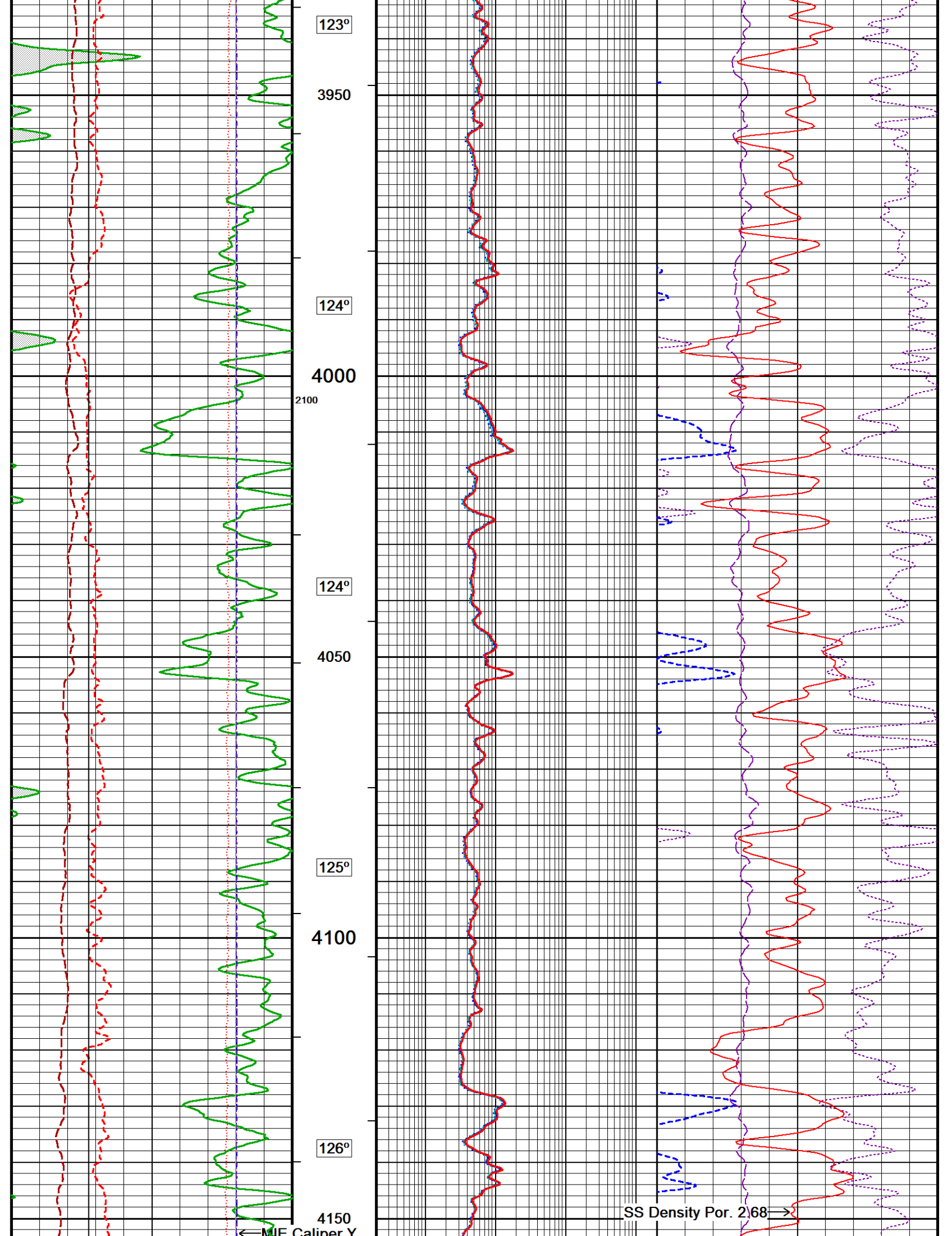
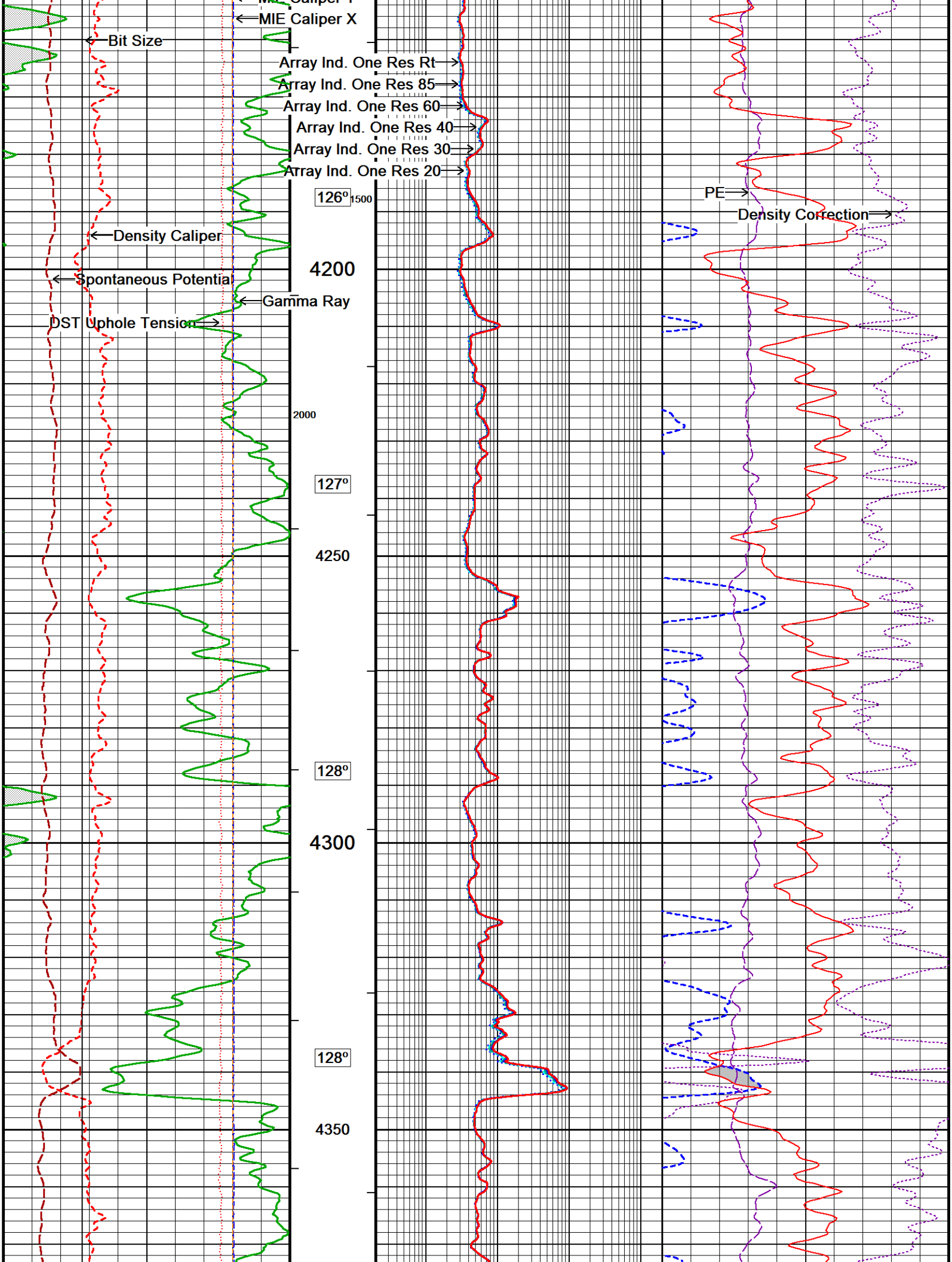
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
121°
2200
Array Ind. One Res 20
Density Caliper
3800
Spontaneous Potential
Gamma Ray
DST Uphole Tension
122°
3850
122°
1600
3900
SS Density Por. 2.68
PE
Density Correction


123°
3950
124°
4000
2100
124°
4050
125°
4100
126°
4150
SS Density Por. 2 68
MIF Caliper X


MIE Caliper X
Bit Size
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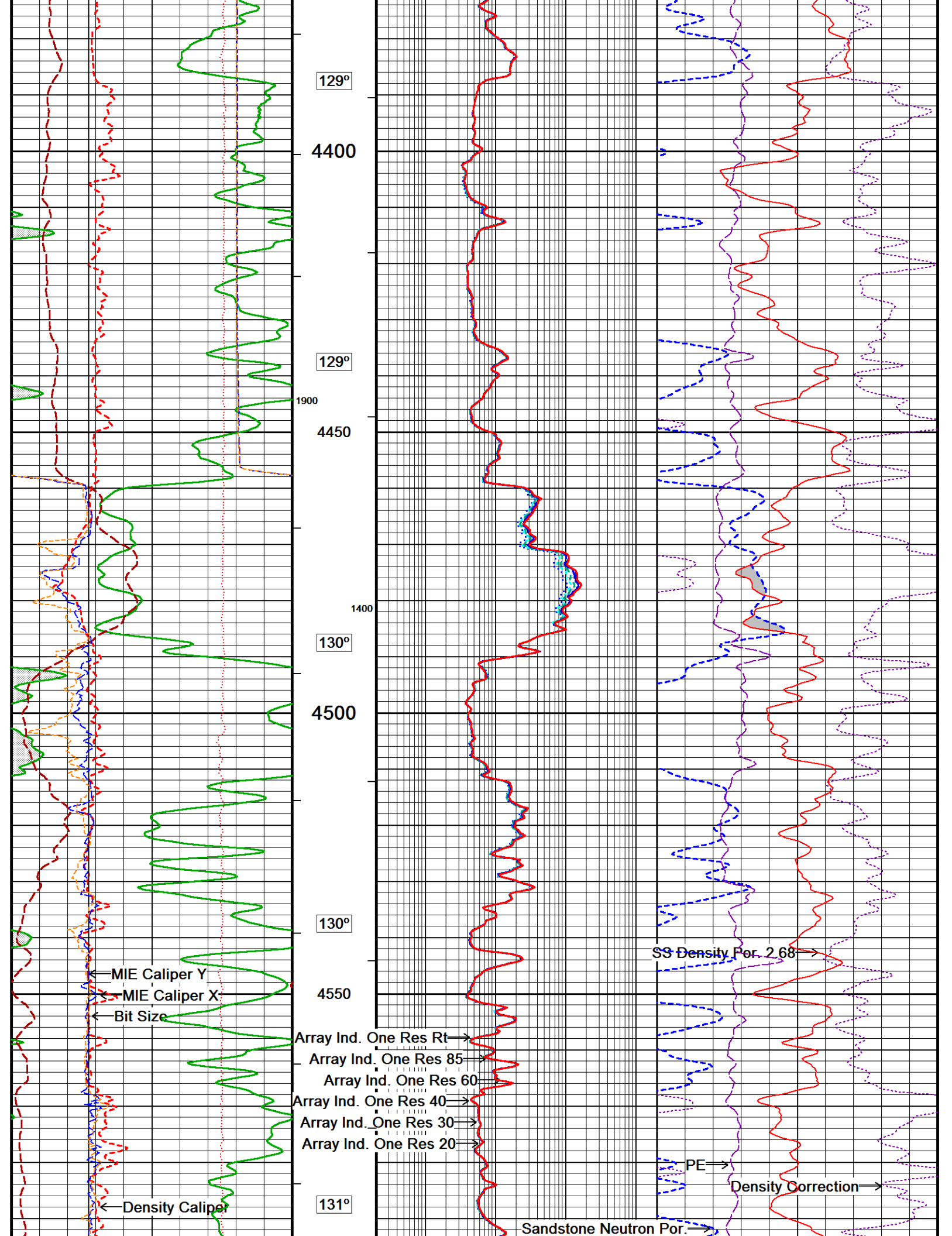
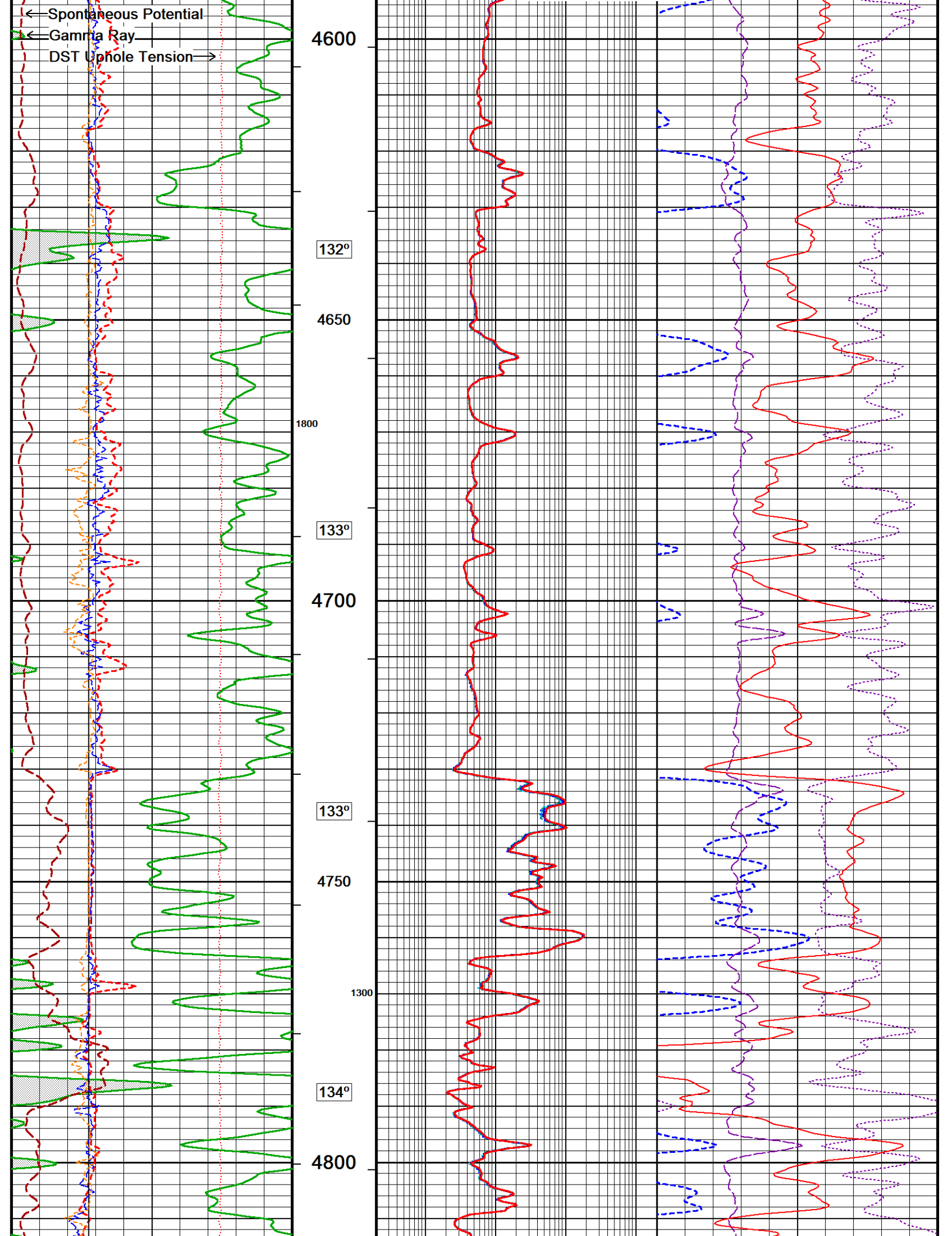
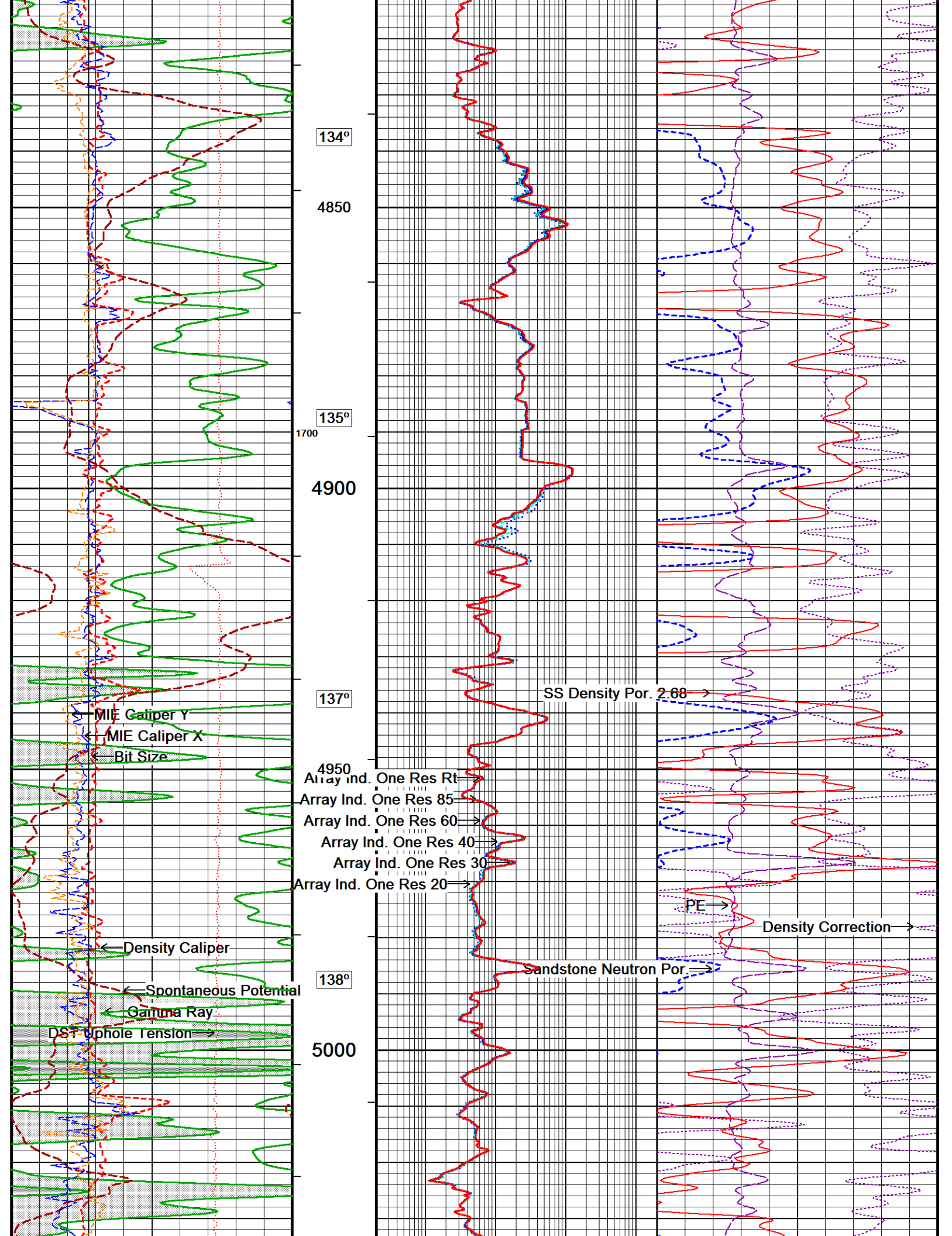
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
126°
1500
PE
Density Correction
Density Caliper
4200
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2000
127°
4250
128°
4300
128°
4350


129°
4400
129°
1900
4450
1400
130°
4500
130°
4550
131°
MIE Caliper Y
MIE Caliper X
Bit Size
Density Caliper
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.


Spontaneous Potential
Gamma Ray
DST Upnole Tension
4600
132°
4650
1800
133°
4700
133°
4750
1300
134°
4800


134°
4850
135°
1700
4900
137°
4950
138°
5000
MIE Caliper Y
MIE Caliper X
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
SS Density Por. 2.68
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
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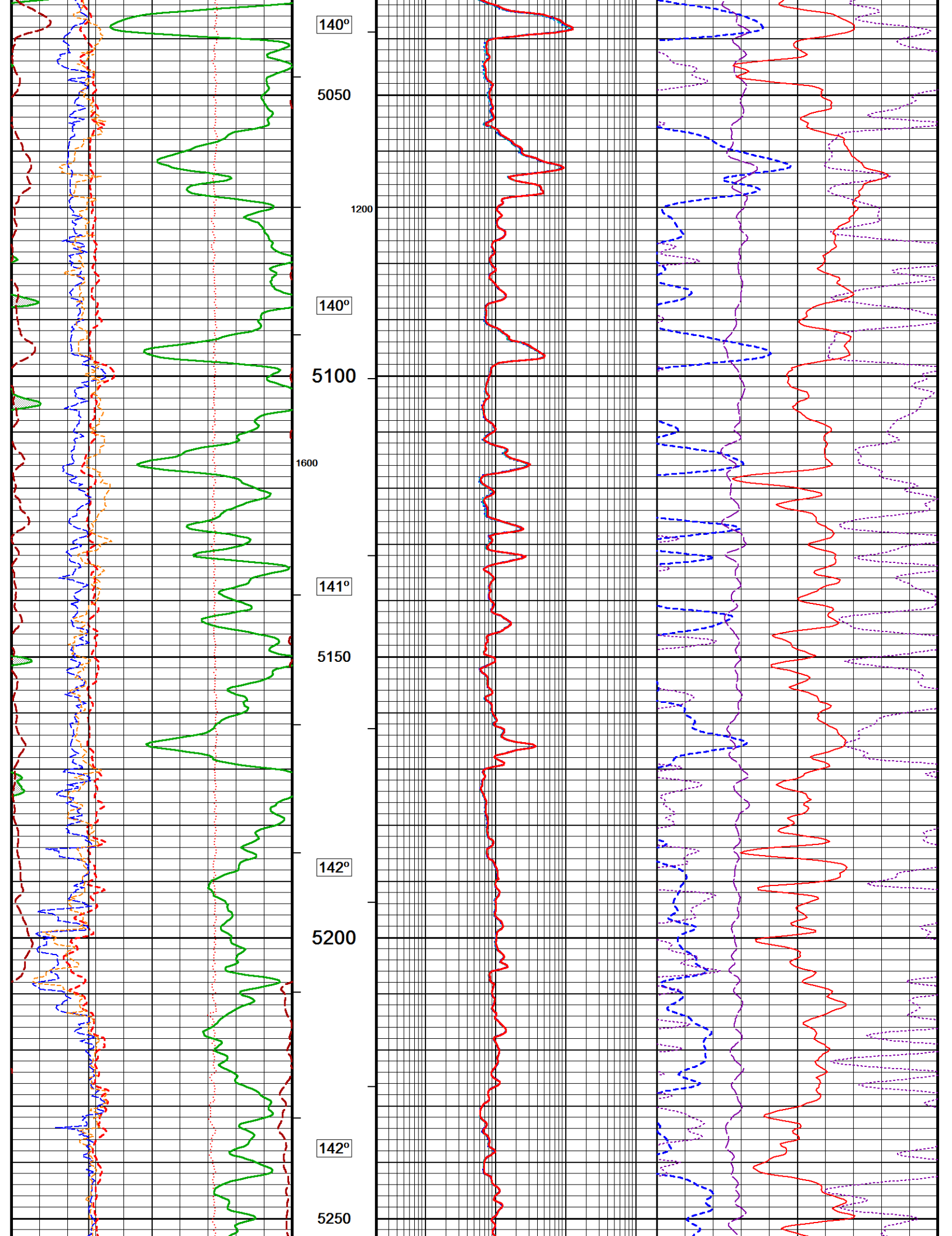
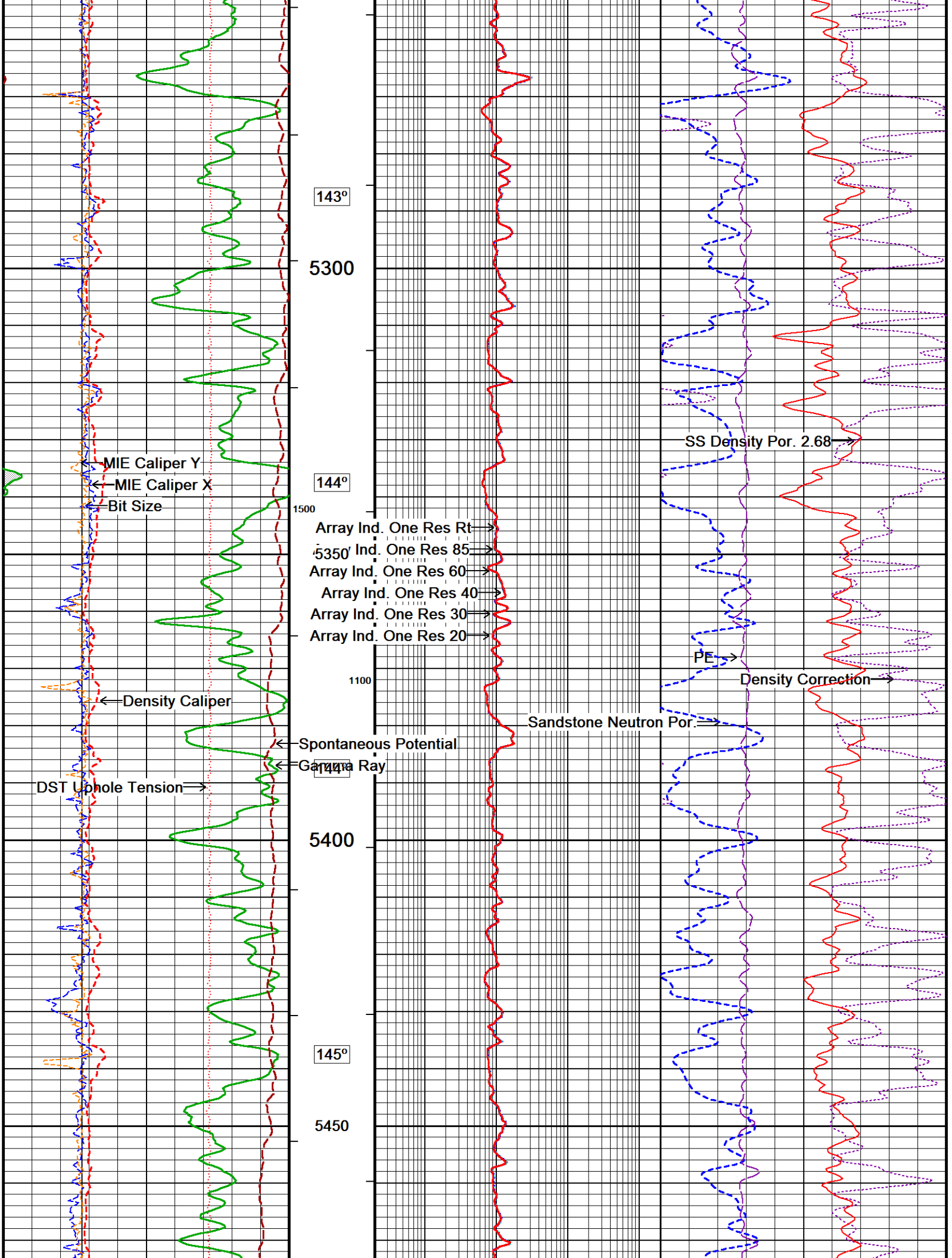
PE
Density Correction
Sandstone Neutron Por.


140°
5050
1200
140°
5100
1600
141°
5150
142°
5200
142°
5250


143°
5300
144°
1500
5350
1100
144
5400
145°
5450
MIE Caliper Y
MIE Caliper X
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
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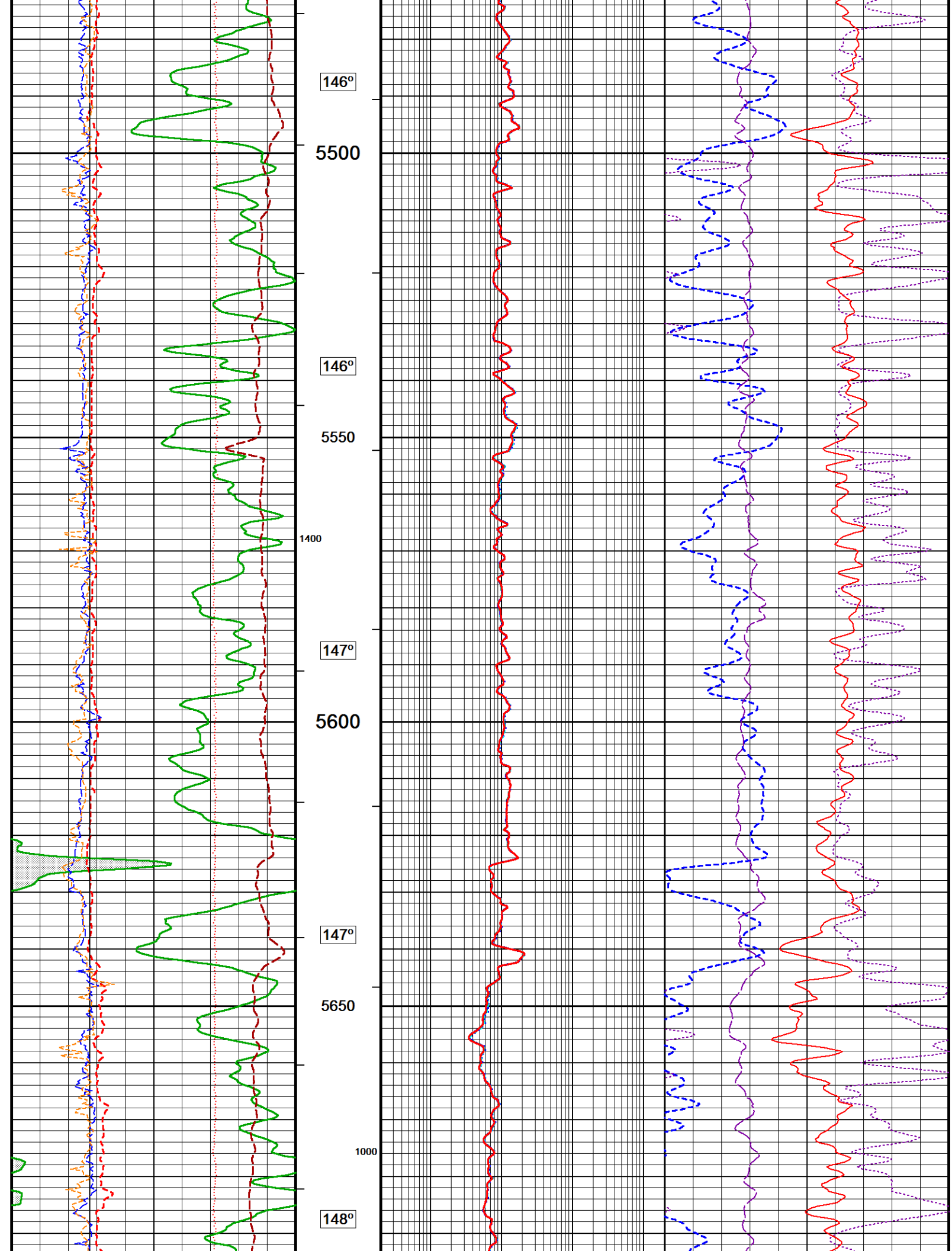
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.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146°
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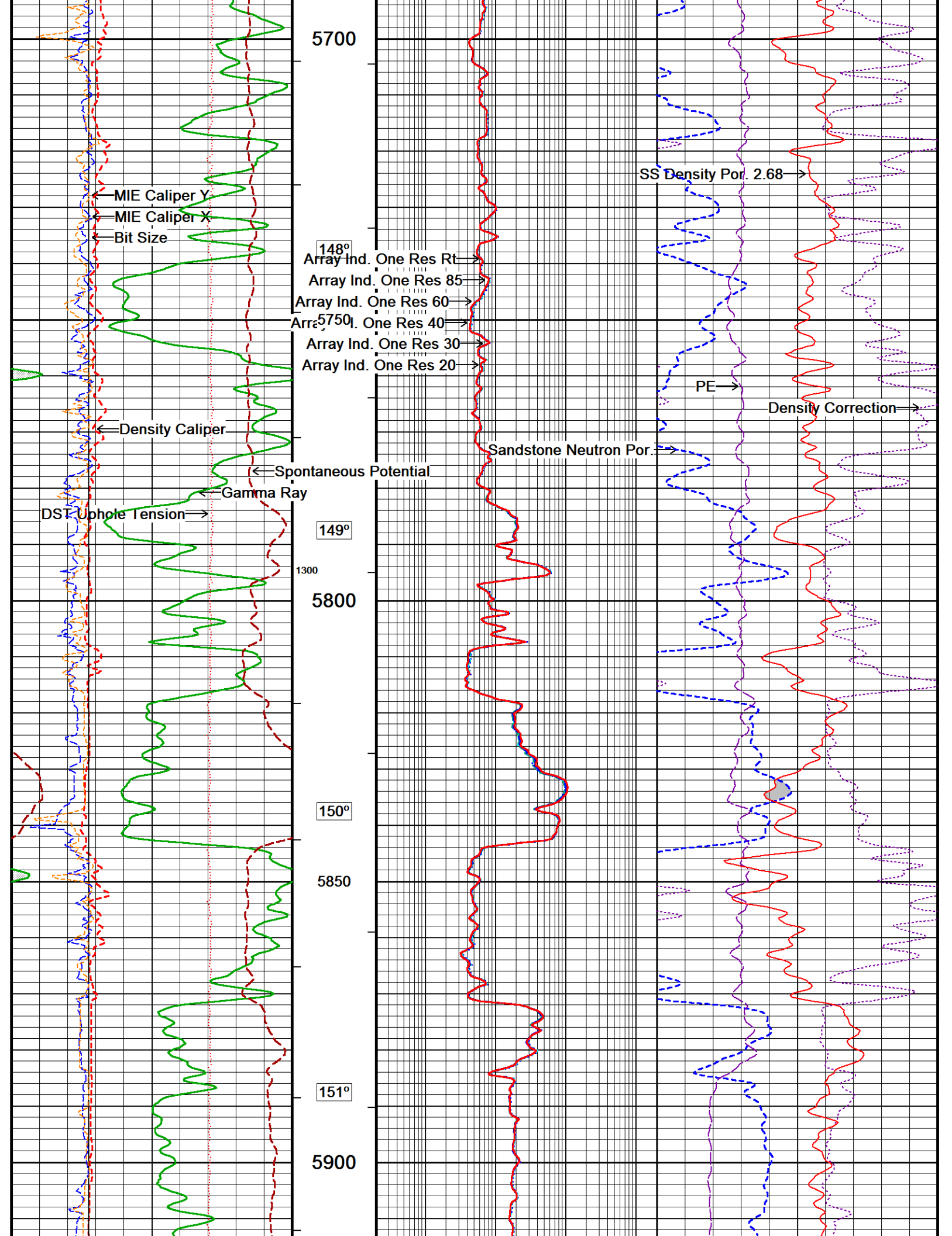
1400
147°
5600
147°
5650
1000
148°


5700
MIE Caliper Y
MIE Caliper X
Bit Size
148°
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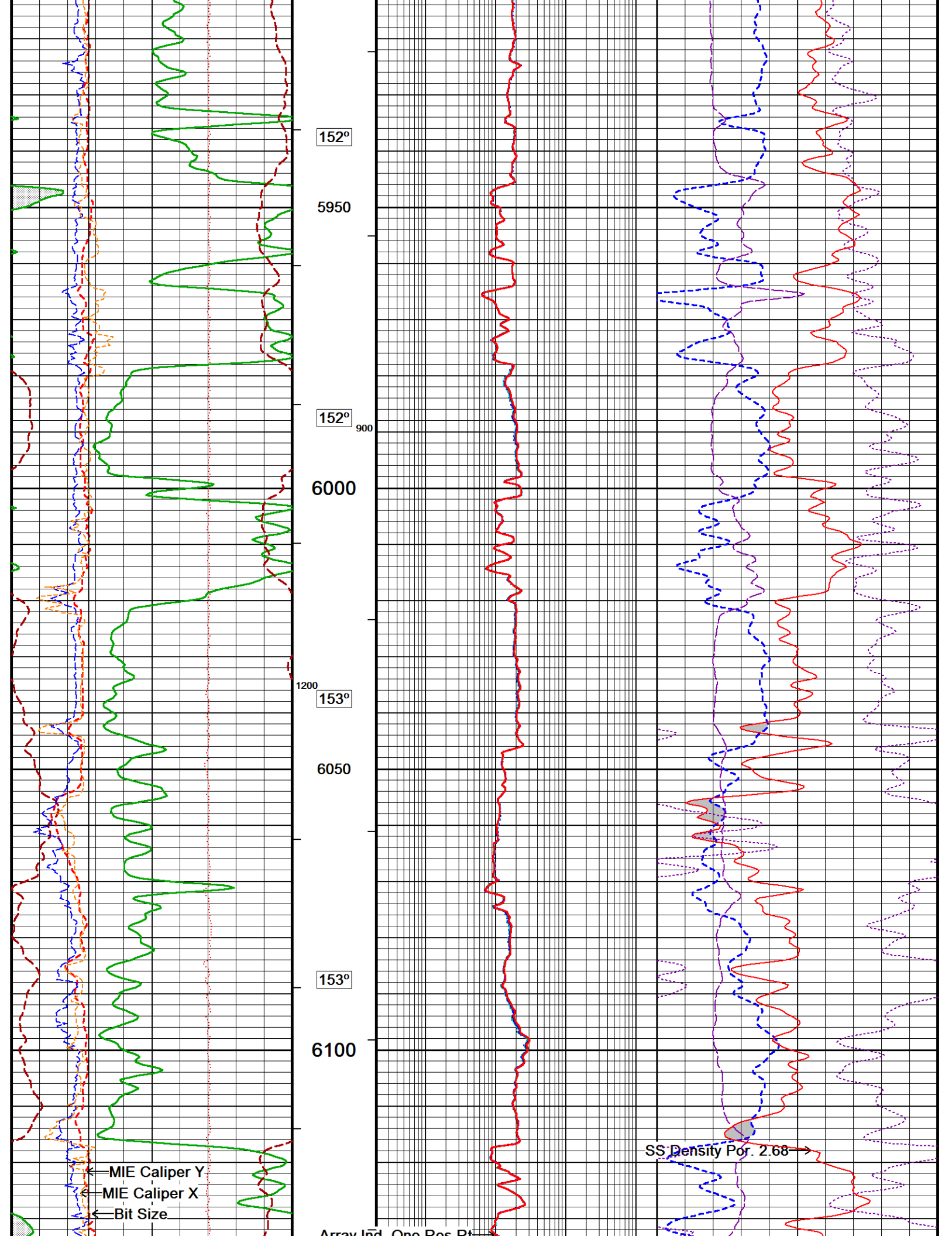
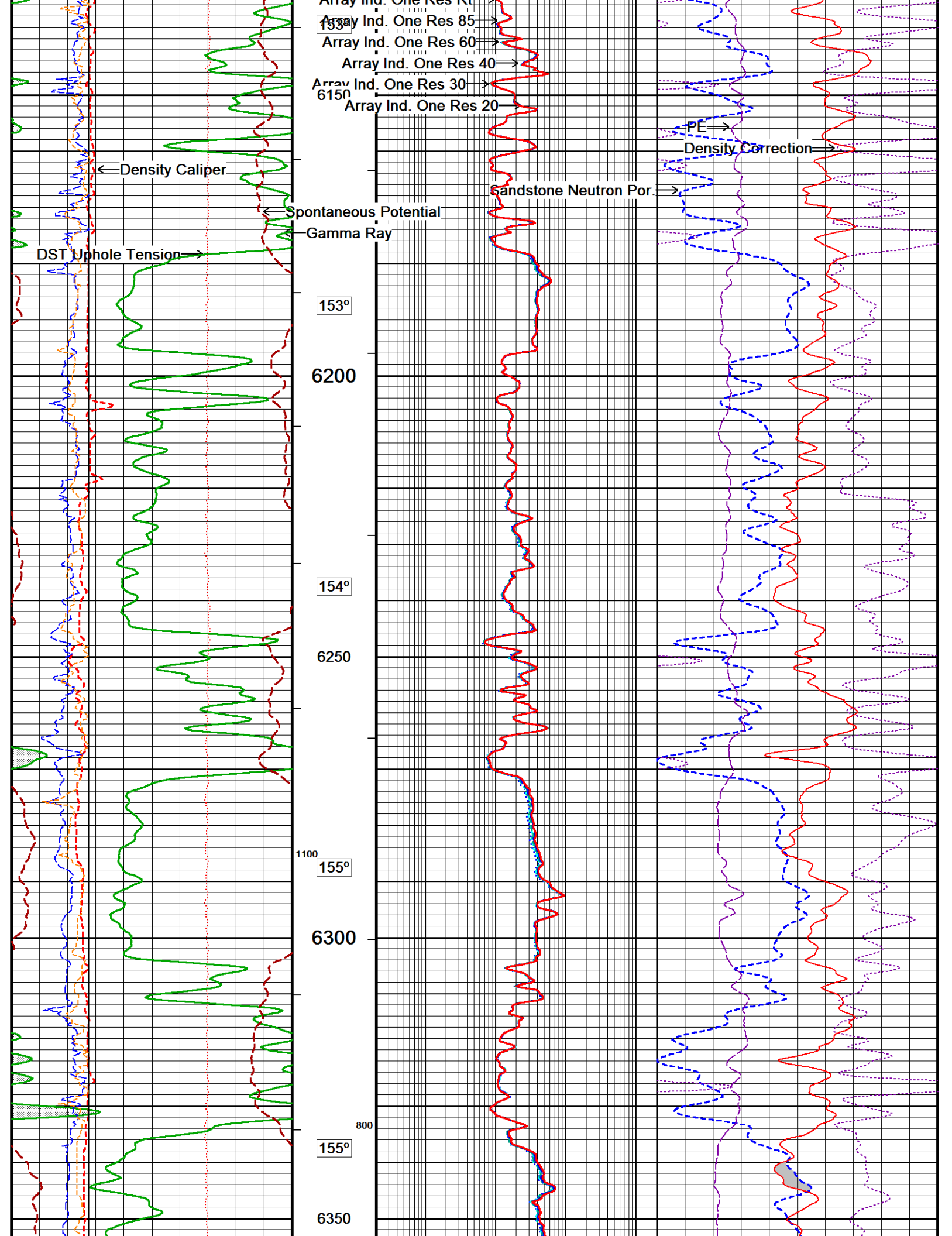
Array Ind. One Res 85
Array Ind. One Res 60
5750
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
149°
1300
5800
150°
5850
151°
5900


152°
5950
152°
900
6000
1200
153°
6050
153°
6100
MIE Caliper Y
MIE Caliper X
Bit Size
SS Density Por. 2.68
Array Ind. One Res Rt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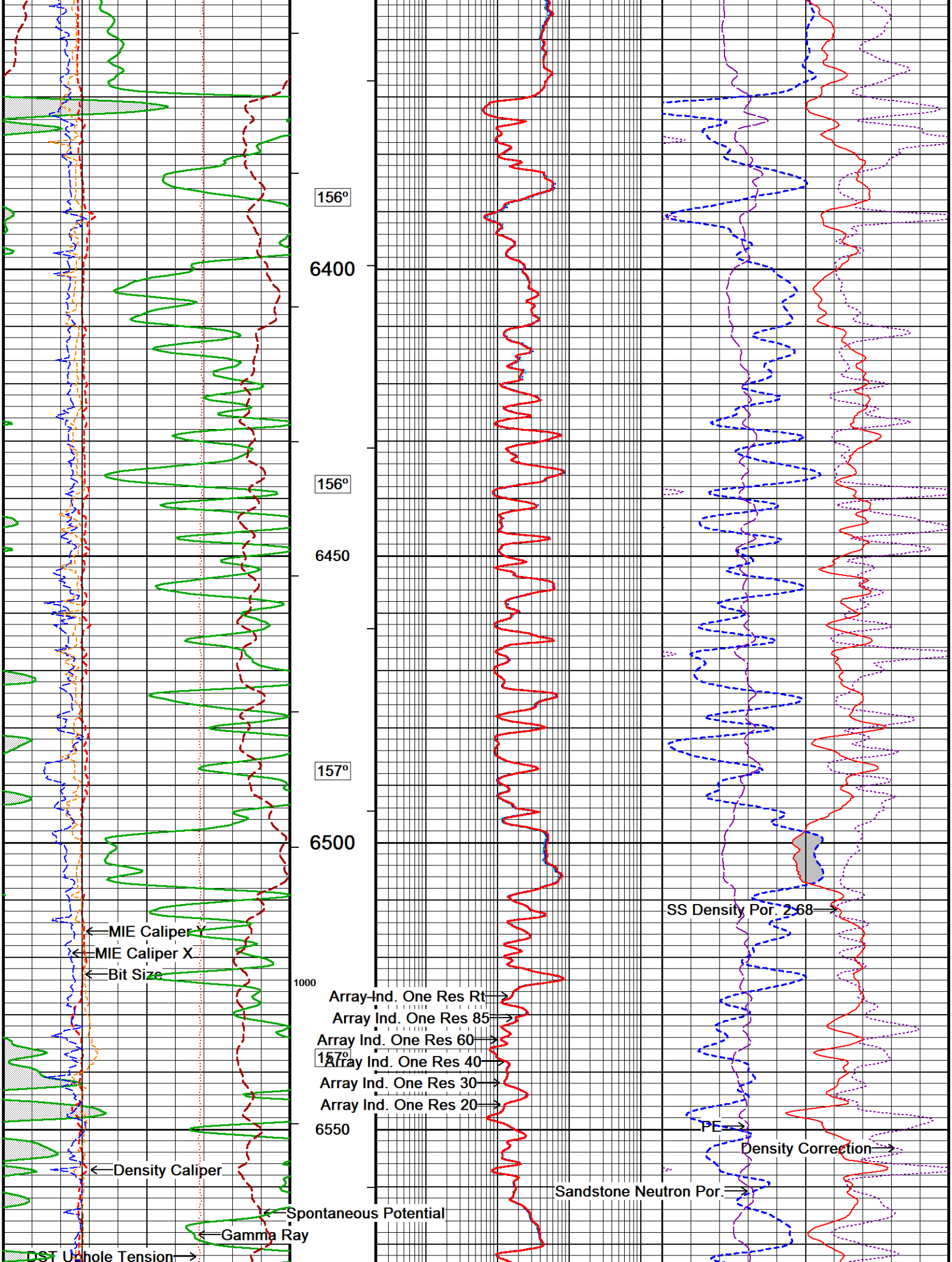
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
153°
6200
154°
6250
1100
155°
6300
800
155°
6350


156°
6400
156°
6450
157°
6500
MIE Caliper Y
MIE Caliper X
Bit Size
1000
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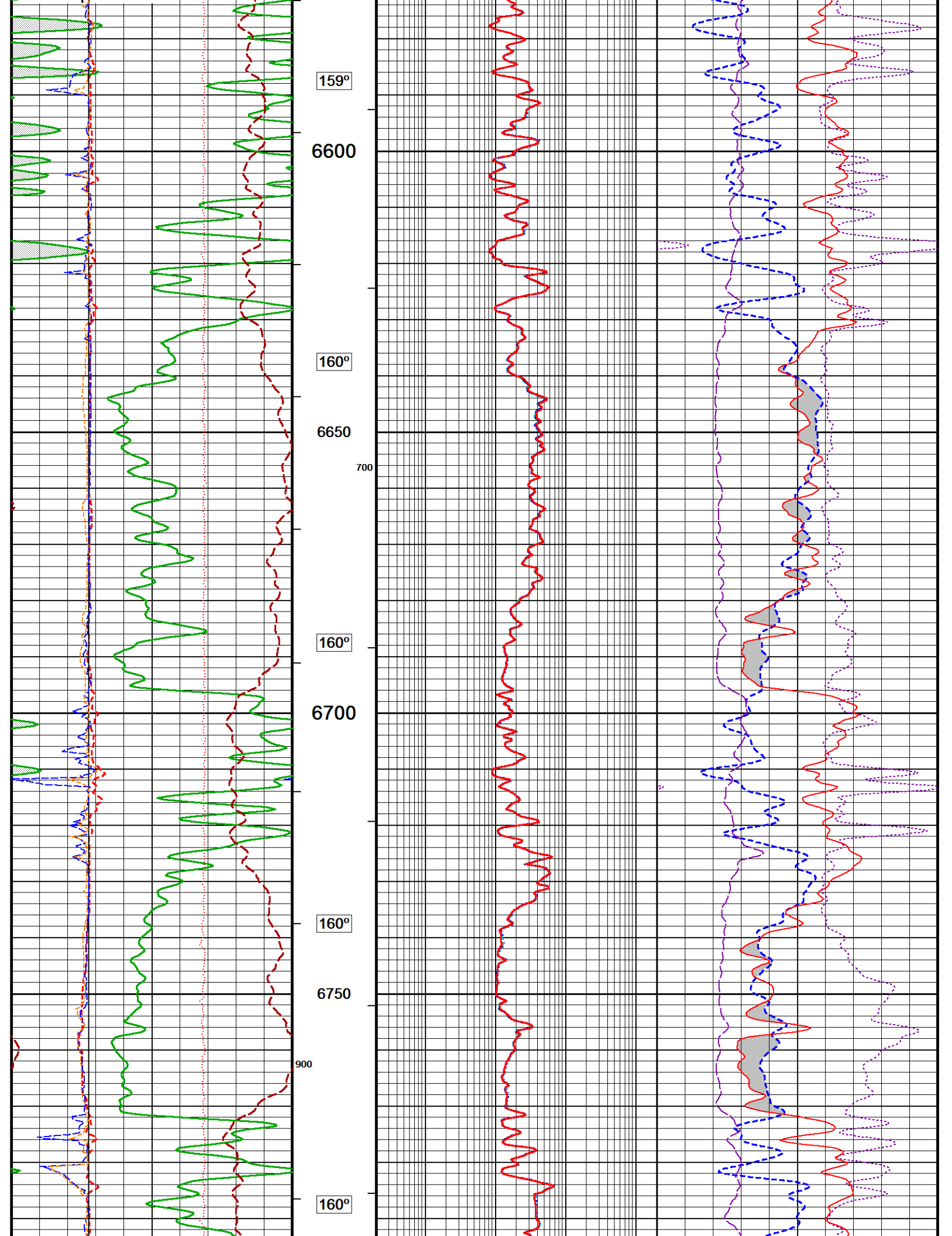
Array Ind. One Res 85
Array Ind. One Res 60
157°
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
6550
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.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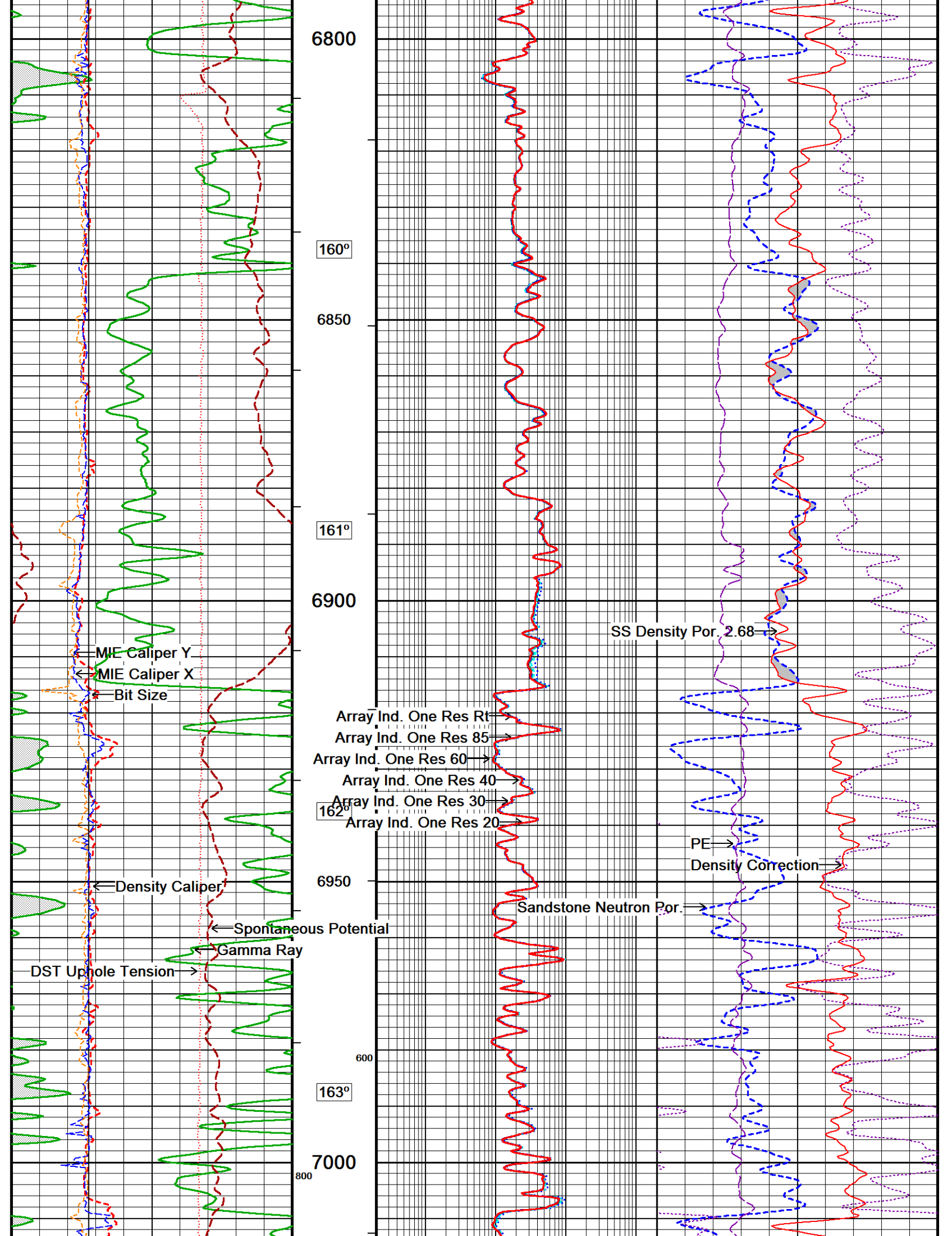
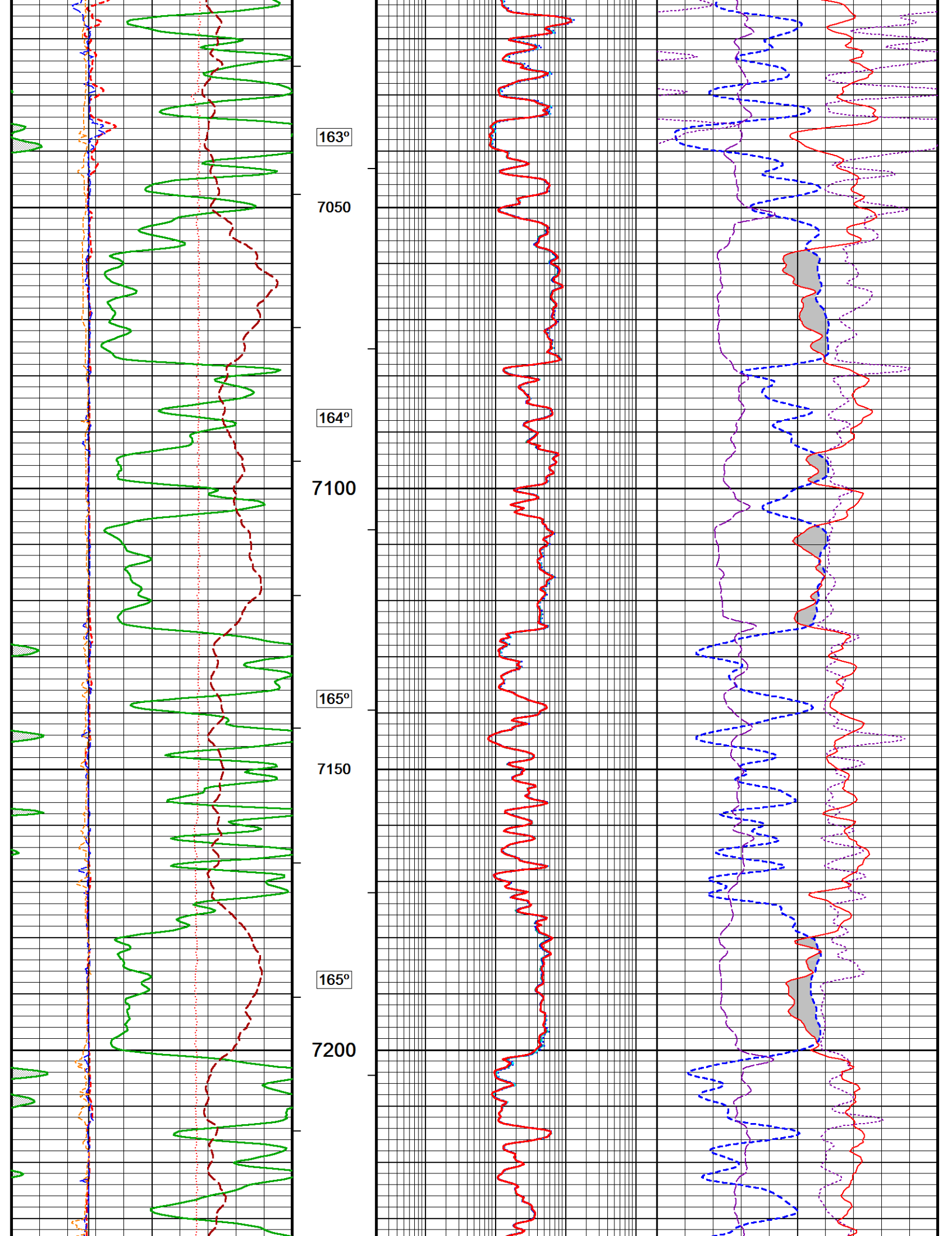
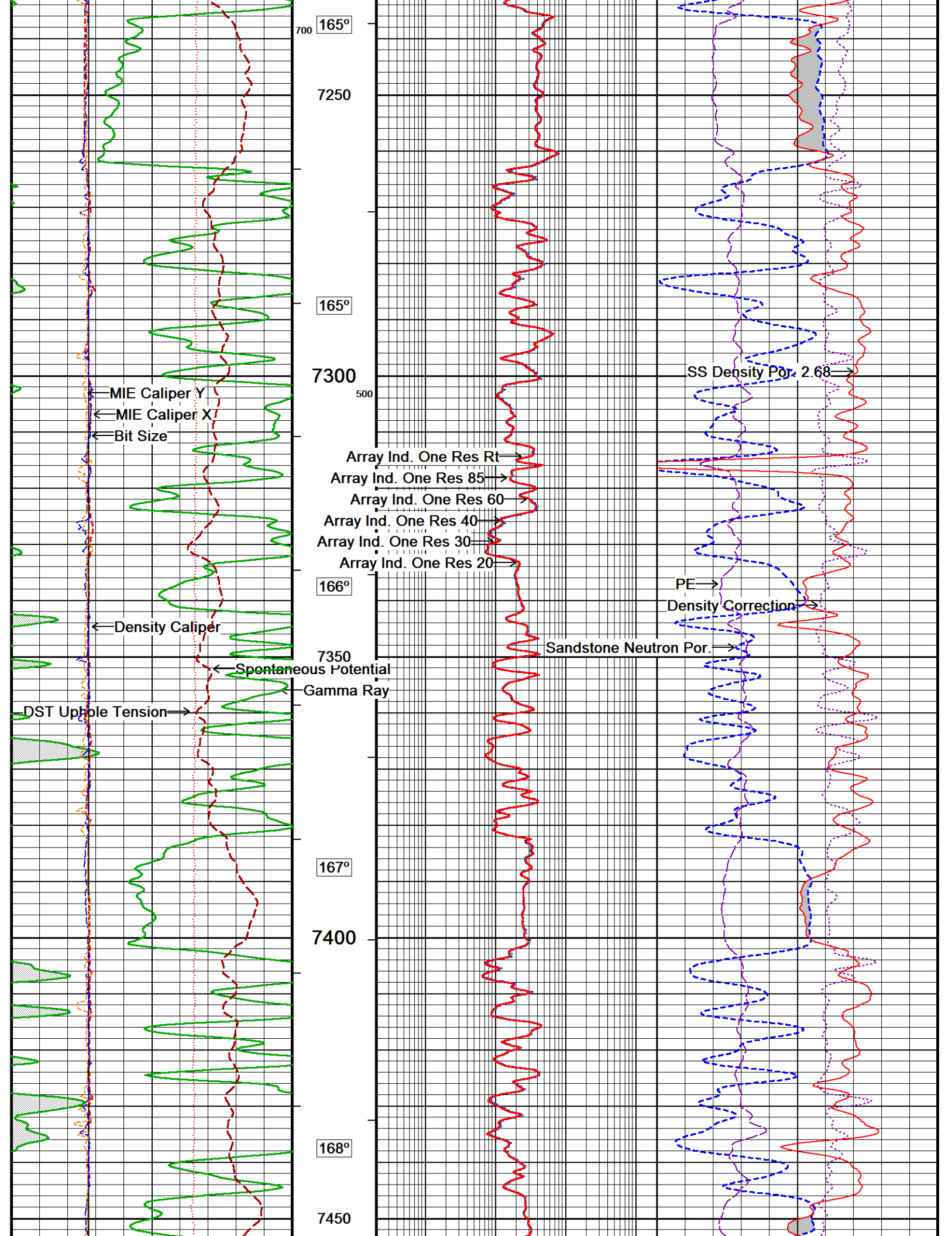
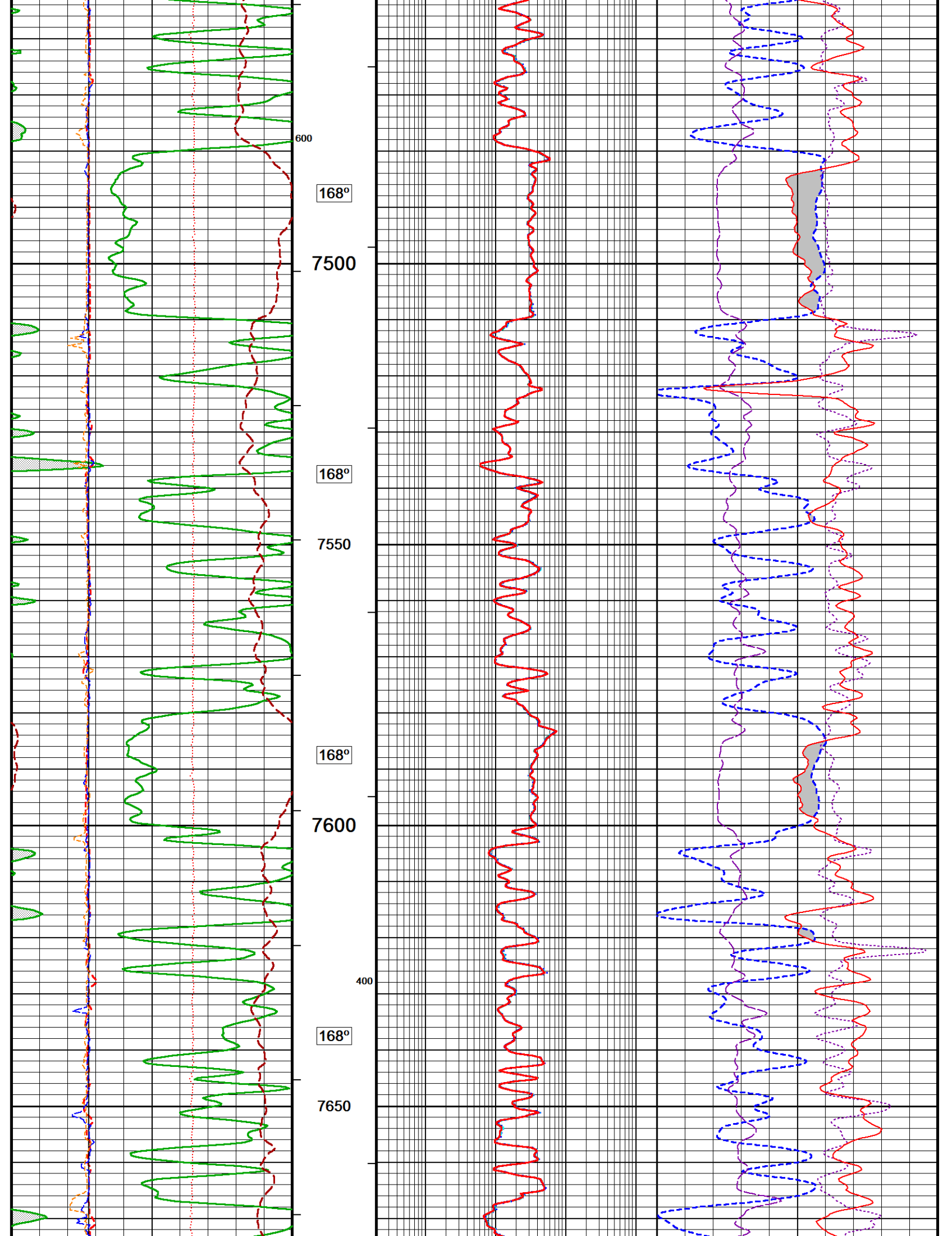
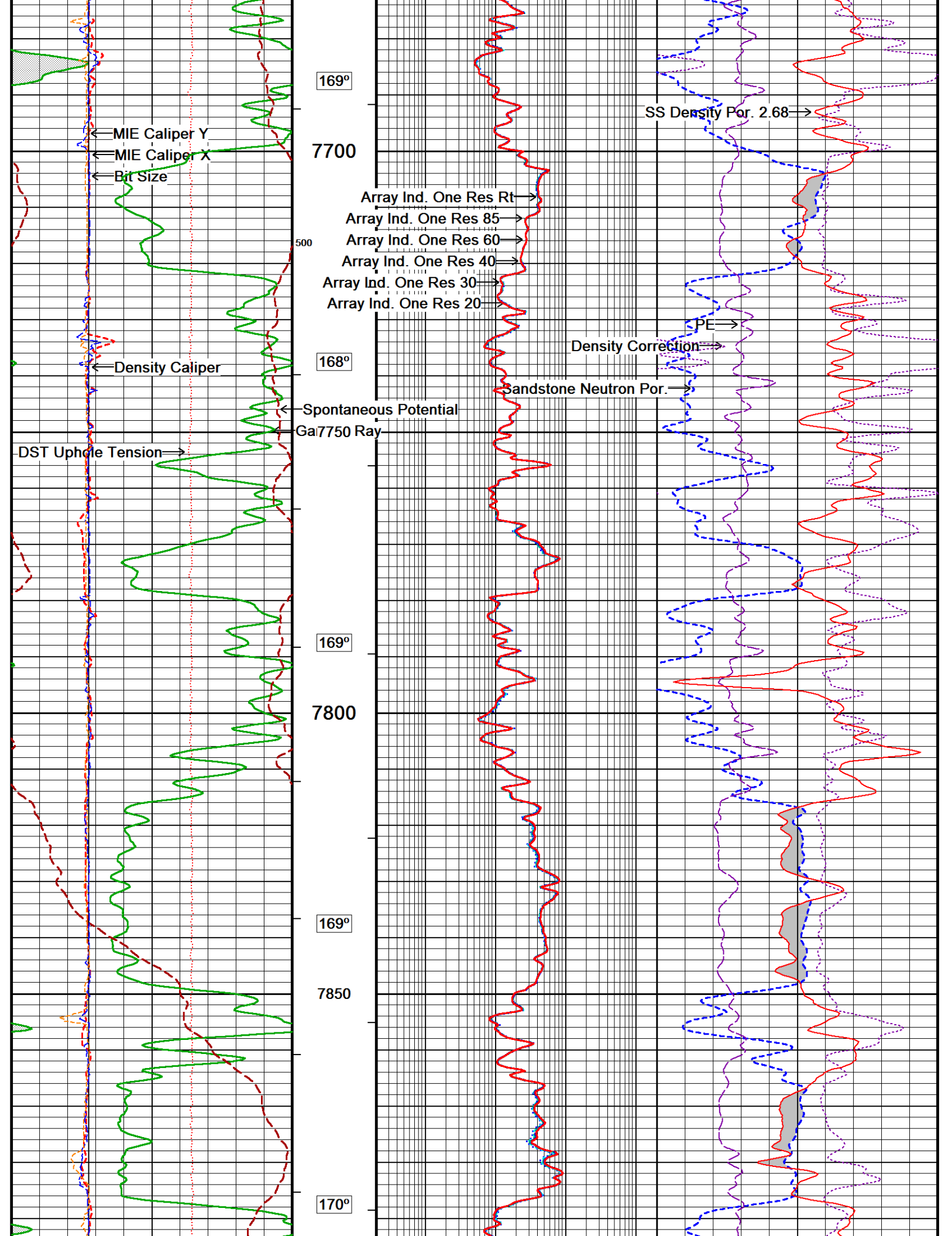
6600
160°
6650
700
160°
6700
160°
6750
900
160°

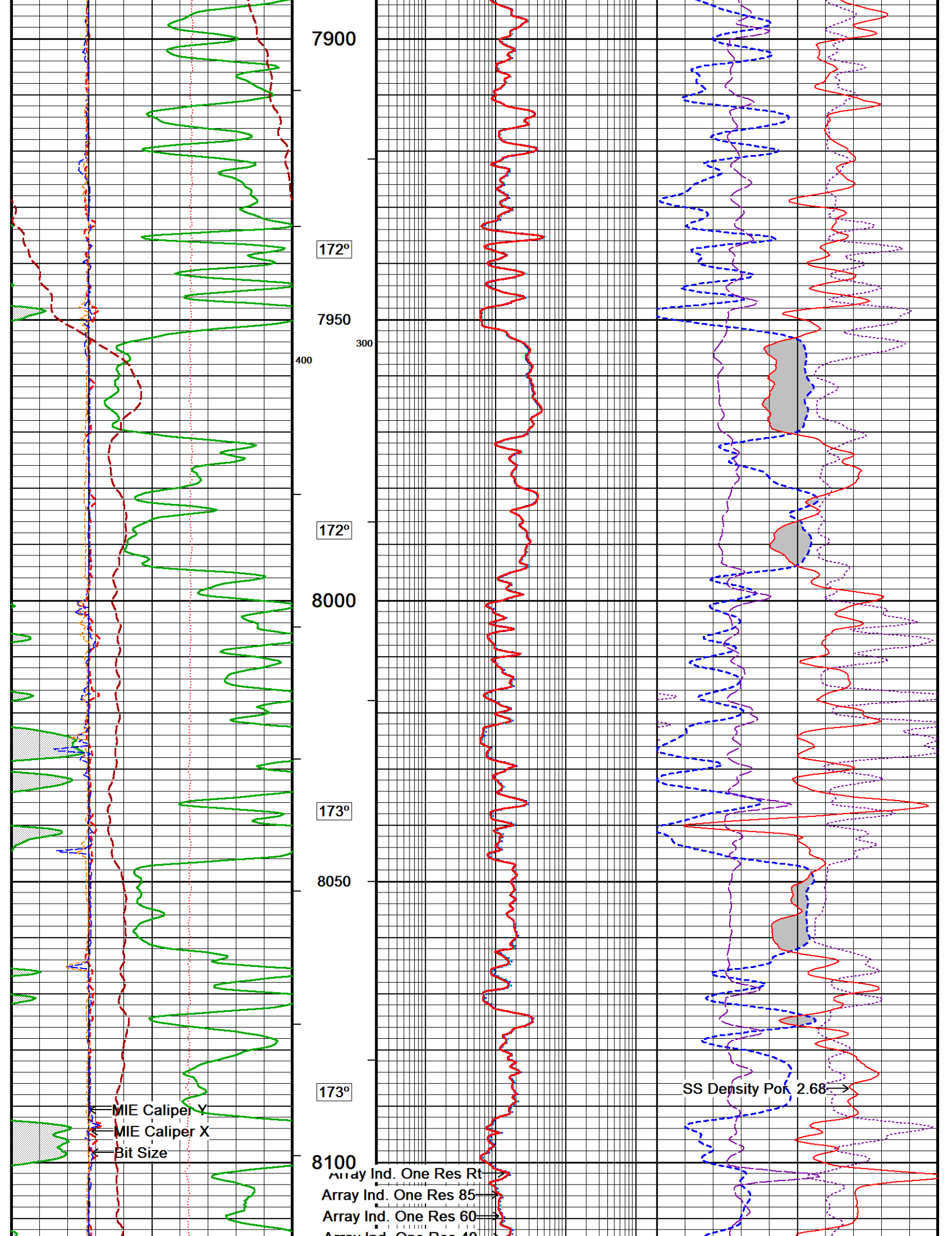

6800
160°
6850
161°
6900
162°
6950
163°
7000
600
800
MIE Caliper Y
MIE Caliper X
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.

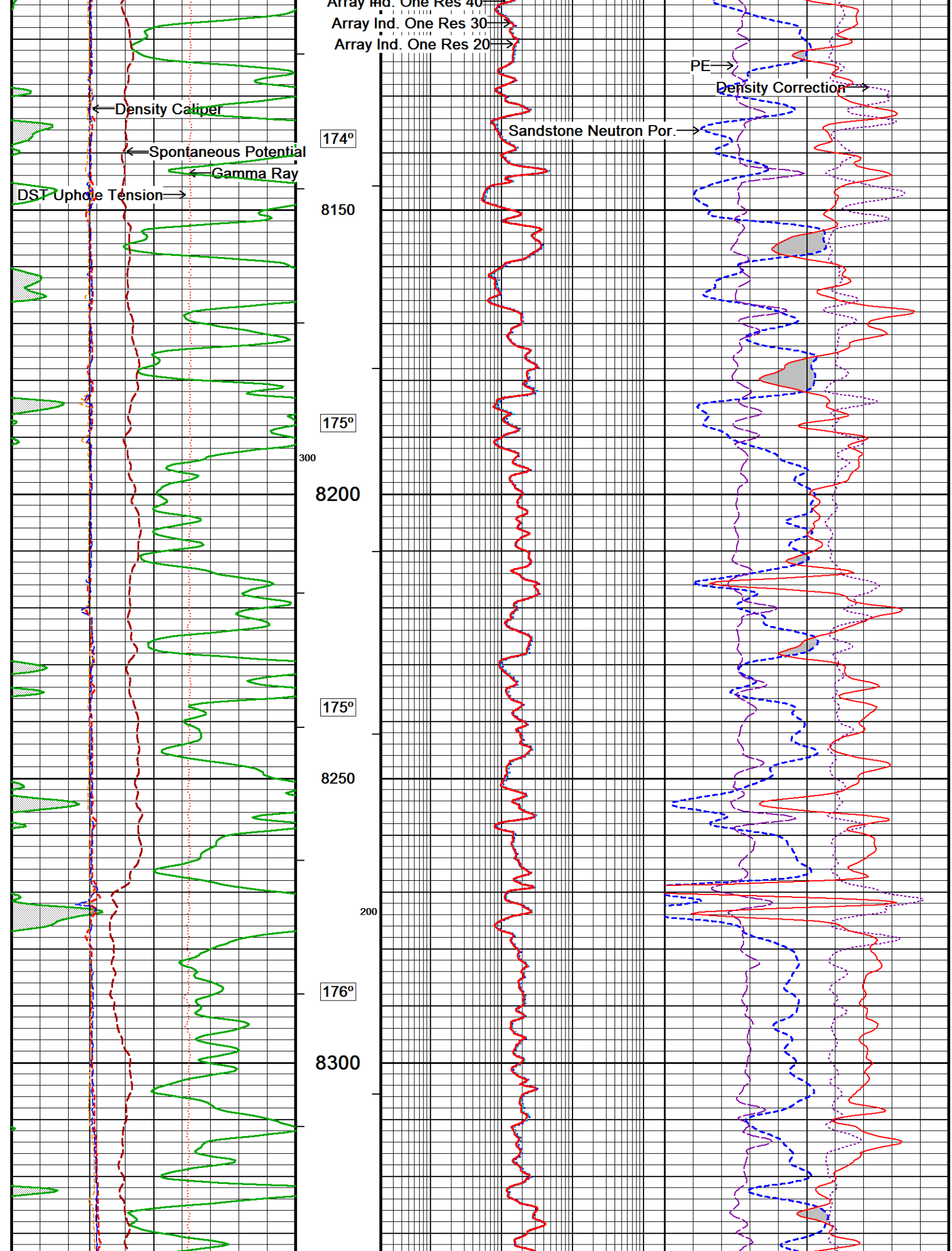

163º
7050
164º
7100
165º
7150
165º
7200

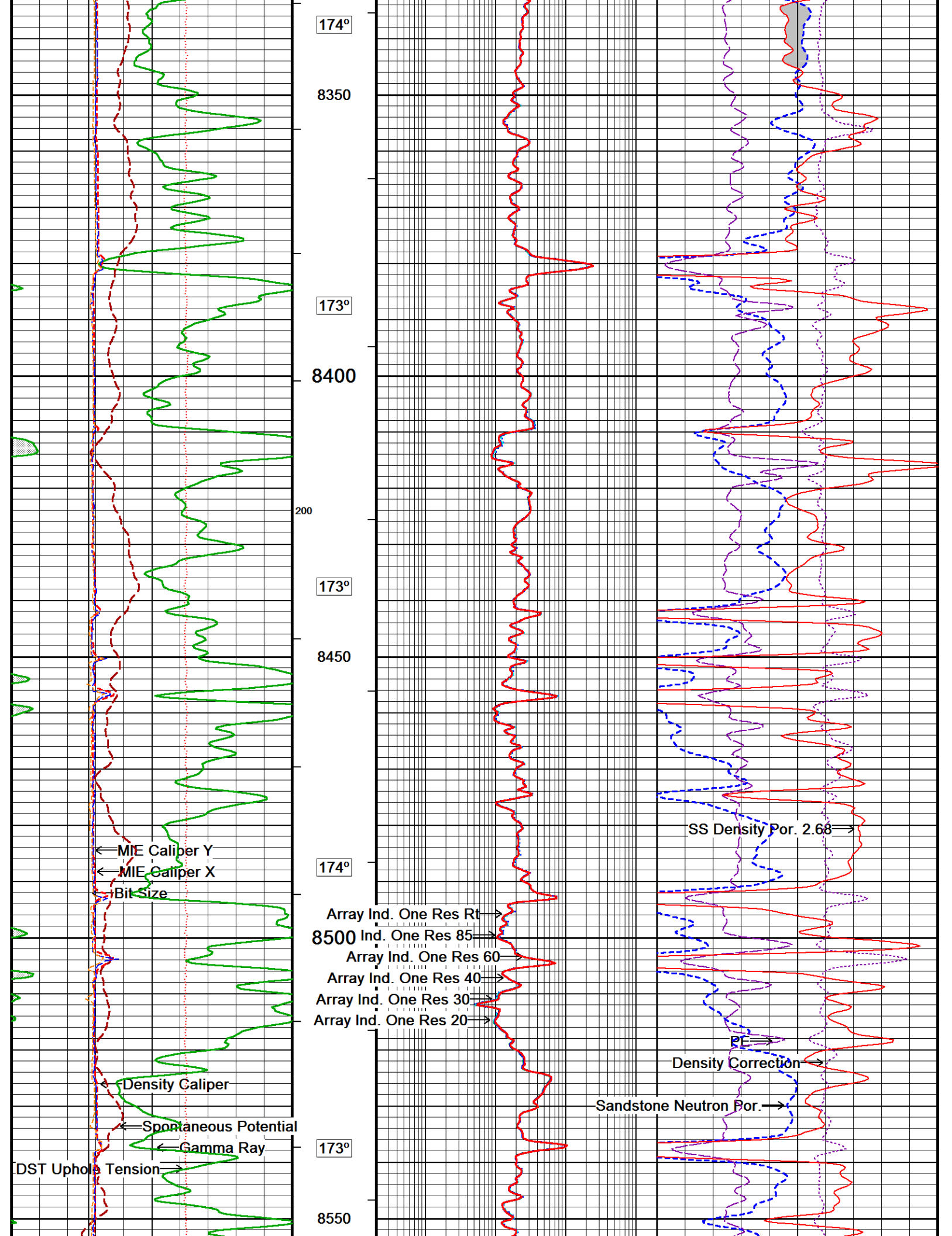

700
165°
7250
165°
7300
500
MIE Caliper Y
MIE Caliper X
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
SS Density Por. 2.68
166°
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
7350
Spontaneous Potential
Gamma Ray
DST Uphole Tension
167°
7400
168°
7450

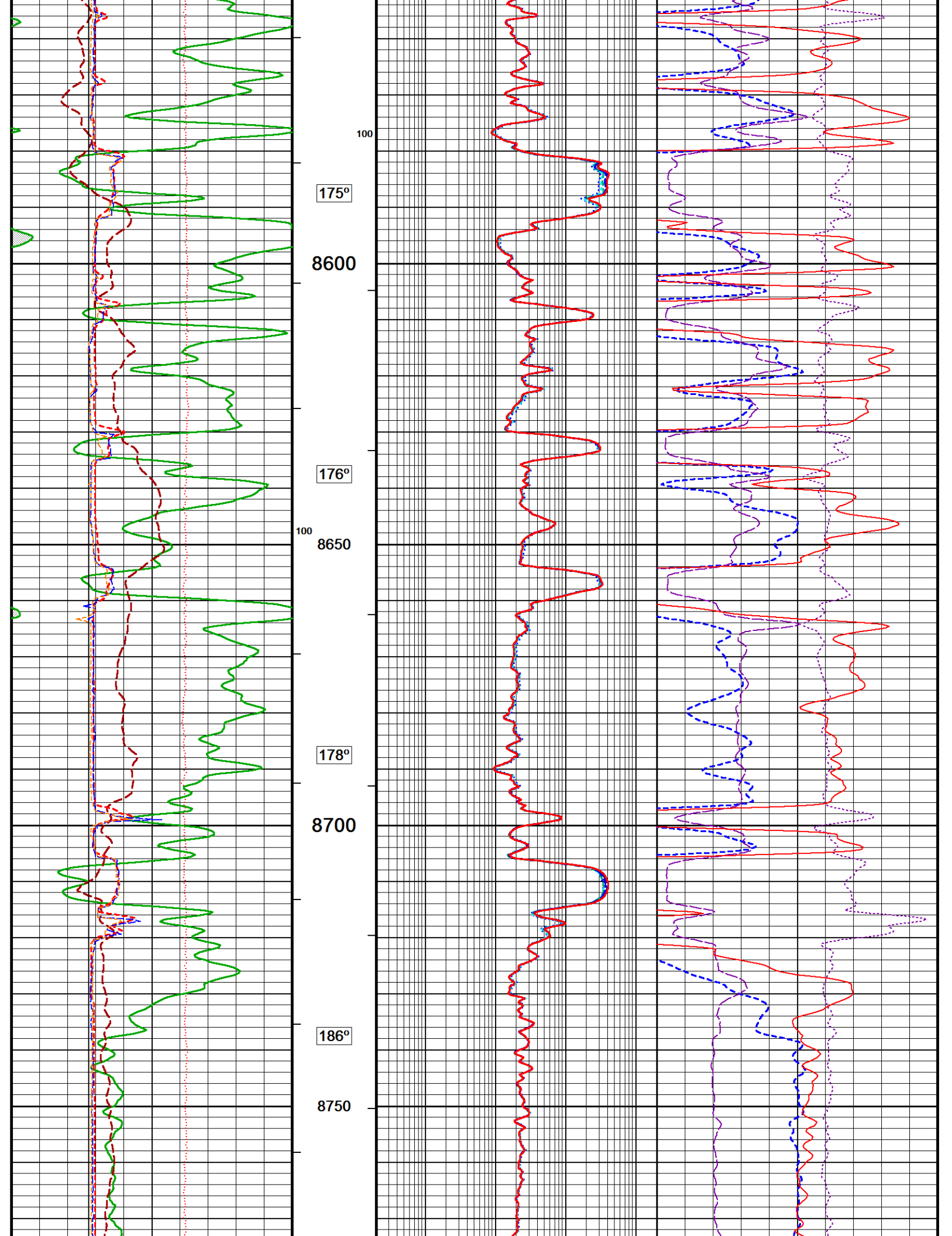

600
168°
7500
168°
7550
168°
7600
400
168°
7650

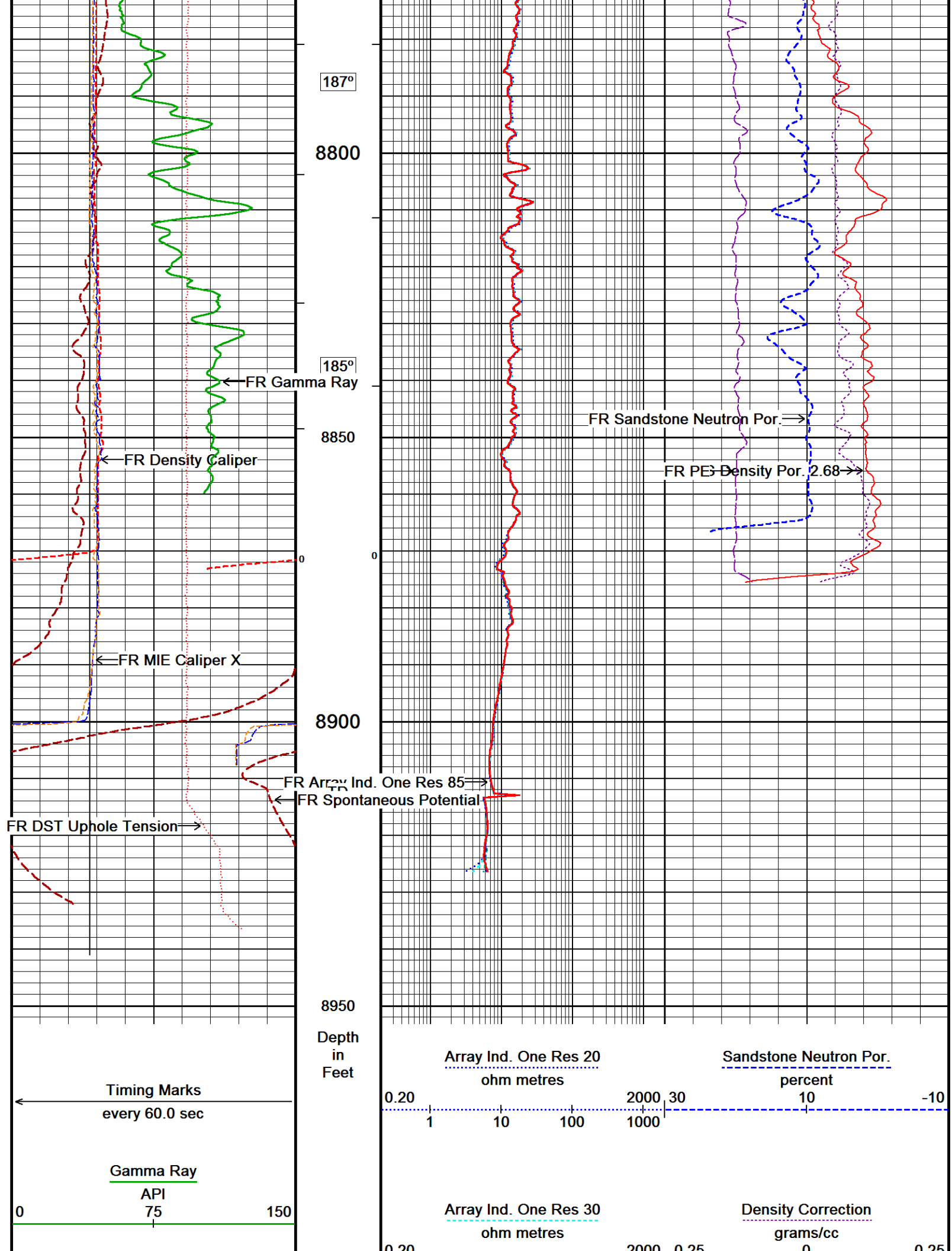

169°
7700
MIE Caliper Y
MIE Caliper X
Bit Size
500
Density Caliper
168°
DST Uphole Tension
169°
7800
169°
7850
170°
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
Spontaneous Potential
Ga 7750 Ray
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.

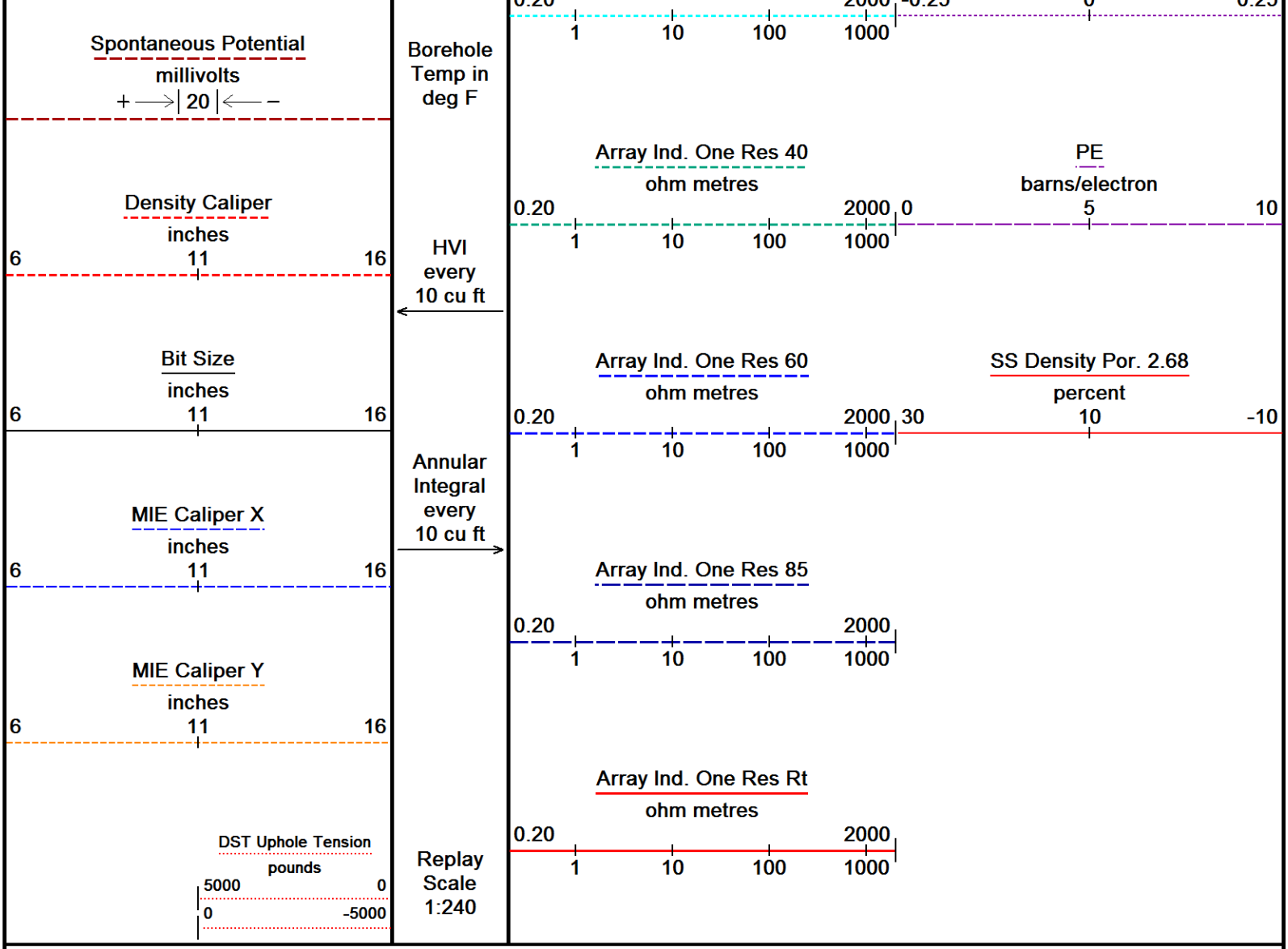

7900
172°
7950
300
400
172°
8000
173°
8050
173°
8100
MIE Caliper Y
MIE Caliper X
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
SS Density Por 2.68


Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
174°
8150
175°
300
8200
175°
8250
200
176°
8300


174°
8350
173°
8400
200
173°
8450
174°
8500
173°
8550
MIE Caliper Y
MIE Caliper X
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.


100
175°
8600
176°
100
8650
178°
8700
186°
8750


187°
8800
185°
FR Gamma Ray
8850
FR Density Caliper
FR Sandstone Neutron Por.
FR PE Density Por. 2.68
0
0
FR MIE Caliper X
8900
FR Array Ind. One Res 85
FR Spontaneous Potential
FR DST Uphole Tension
8950
Depth
in
Feet
Timing Marks
every 60.0 sec
Gamma Ray
API
0
75
150
Array Ind. One Res 20
ohm metres
0.20
2000
1
10
100
1000
Sandstone Neutron Por.
percent
30
10
-10
Array Ind. One Res 30
ohm metres
Density Correction
grams/cc
0.25
0.25

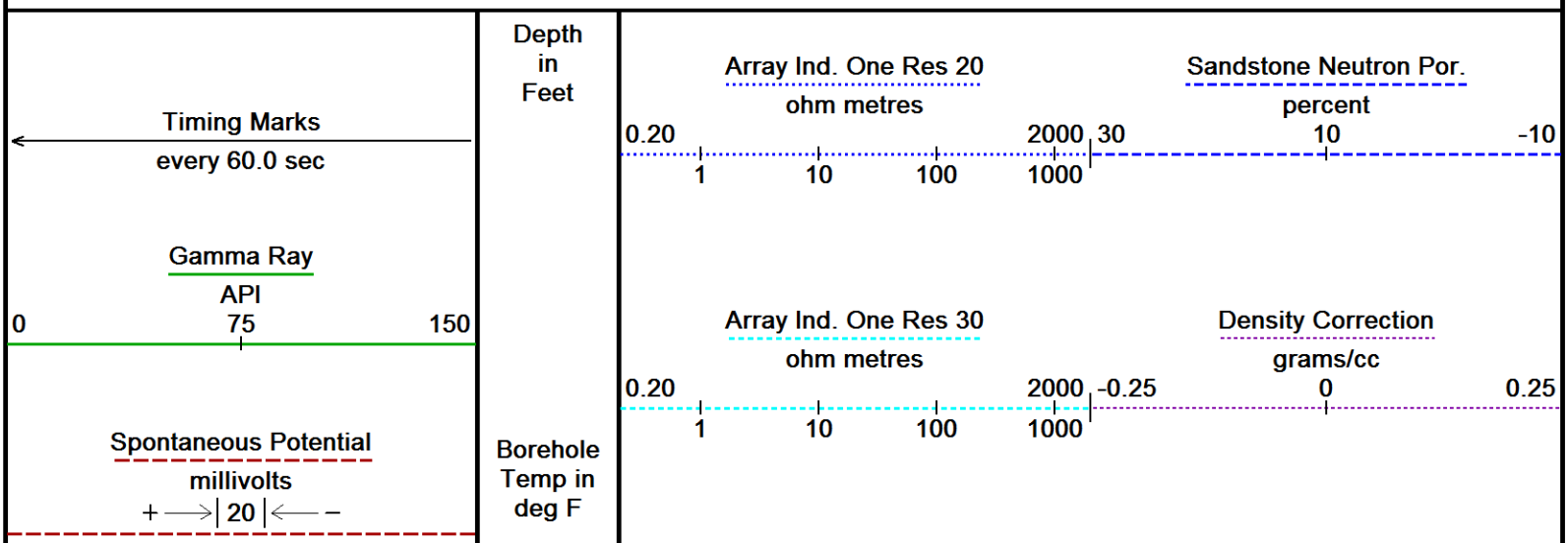


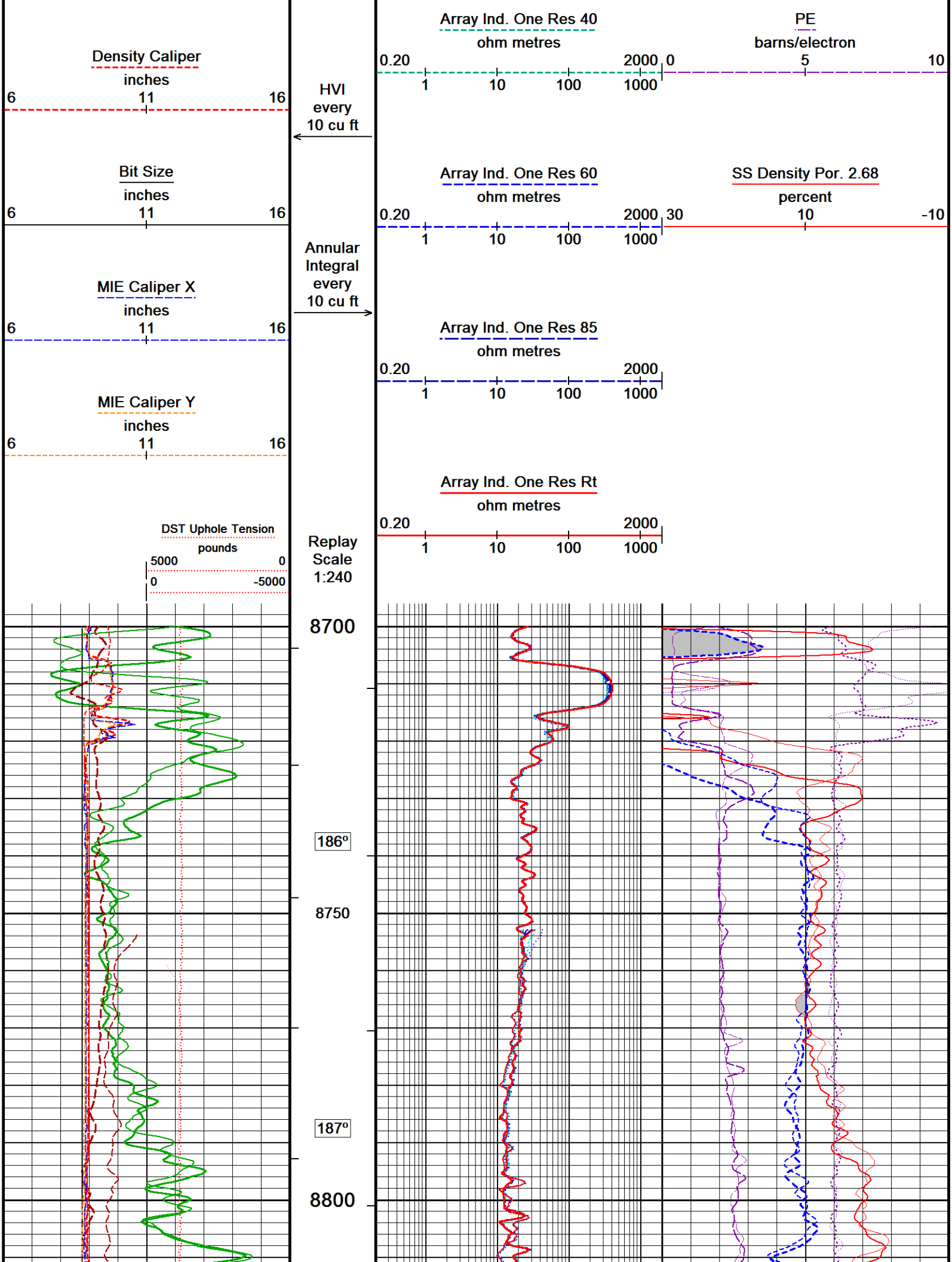
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 04-MAY-2015 10:30
Filename: C:\Logs\CAERUS\PUCKETT 42B-2\SPLICED AND MERGED.dta
Recorded on 03-MAY-2015 13:40
System Versions: Plotted with 15.01.2520

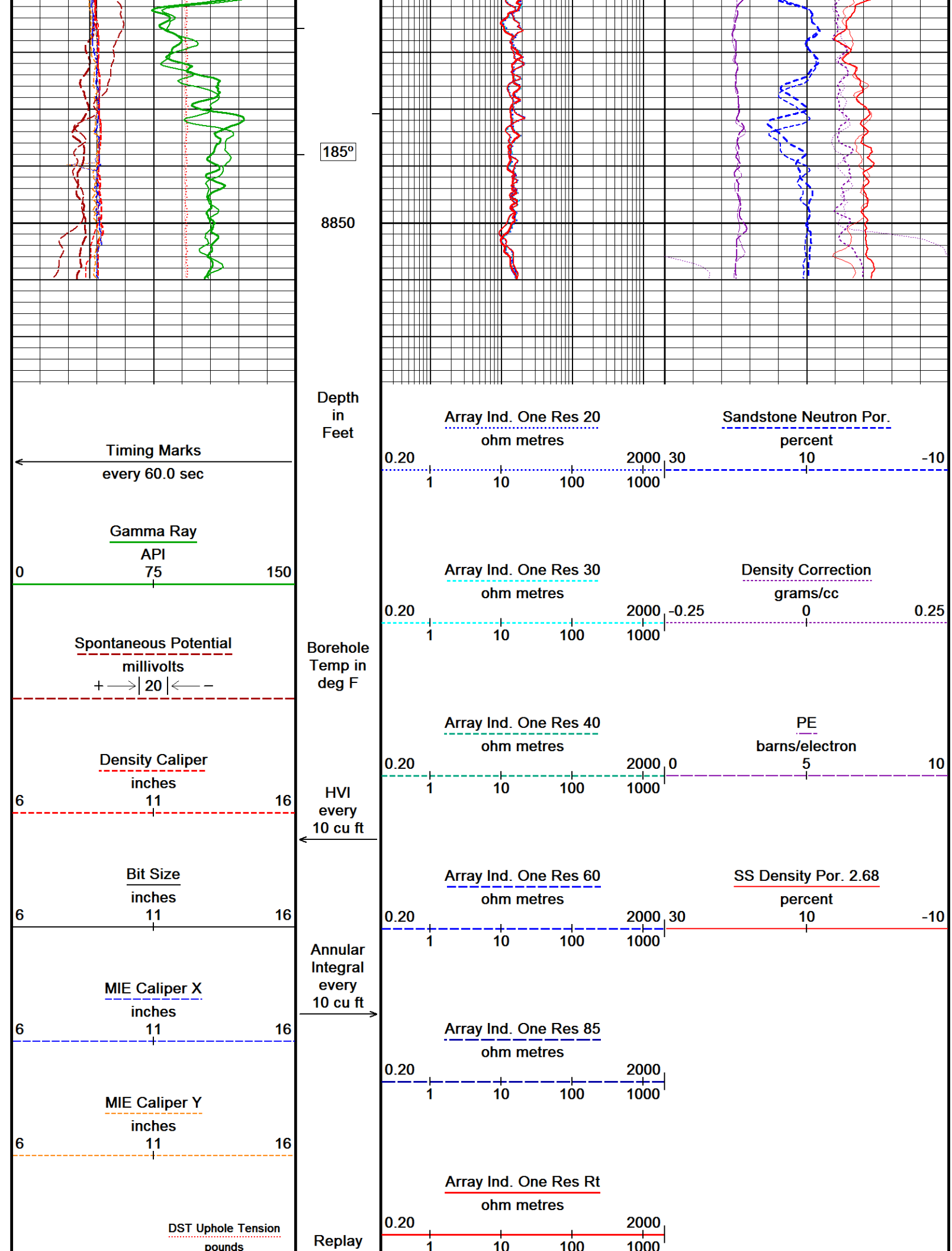
5 INCH MAIN LOG

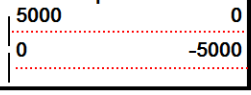
REPEAT SECTION OVERLAY

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 04-MAY-2015 10:30
Filename: C:\Logs\CAERUS\PUCKETT 42B-2\SPLICED AND MERGED.dta
Recorded on 03-MAY-2015 13:40
Filename: C:\Logs\CAERUS\PUCKETT 42B-2\REPEAT PASS.dta
Recorded on 03-MAY-2015 13:15
System Versions: Plotted with 15.01.2520




Density Caliper
inches
6
11
16
Bit Size
inches
6
11
16
MIE Caliper X
inches
6
11
16
MIE Caliper Y
inches
6
11
16
DST Uphole Tension
pounds
5000
0
0
-5000
HVI
every
10 cu ft
Annular
Integral
every
10 cu ft
Replay
Scale
1:240
Array Ind. One Res 40
ohm metres
0.20
2000
1
10
100
1000
PE
barns/electron
0
5
10
Array Ind. One Res 60
ohm metres
0.20
2000
1
10
100
1000
SS Density Por. 2.68
percent
30
10
-10
Array Ind. One Res 85
ohm metres
0.20
2000
1
10
100
1000
Array Ind. One Res Rt
ohm metres
0.20
2000
1
10
100
1000
8700
186°
8750
187°
8800


185°
8850
Depth in Feet
Timing Marks
every 60.0 sec
Gamma Ray
API
0
75
150
Spontaneous Potential
millivolts
+ 20 −
Borehole Temp in deg F
Density Caliper
inches
6
11
16
HVI every 10 cu ft
Bit Size
inches
6
11
16
Annular Integral every 10 cu ft
MIE Caliper X
inches
6
11
16
MIE Caliper Y
inches
6
11
16
DST Uphole Tension
pounds
Replay
Array Ind. One Res 20
ohm metres
0.20
2000
1
10
100
1000
Sandstone Neutron Por.
percent
30
10
-10
Array Ind. One Res 30
ohm metres
0.20
2000
1
10
100
1000
Density Correction
grams/cc
-0.25
0
0.25
Array Ind. One Res 40
ohm metres
0.20
2000
1
10
100
1000
PE
barns/electron
0
5
10
Array Ind. One Res 60
ohm metres
0.20
2000
1
10
100
1000
SS Density Por. 2.68
percent
30
10
-10
Array Ind. One Res 85
ohm metres
0.20
2000
1
10
100
1000
Array Ind. One Res Rt
ohm metres
0.20
2000
1
10
100
1000



Scale
1:240

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 04-MAY-2015 10:30
Filename: C:\Logs\CAERUS\PUCKETT 42B-2\SPLICED AND MERGED.dta — Recorded on 03-MAY-2015 13:40
Filename: C:\Logs\CAERUS\PUCKETT 42B-2\REPEAT PASS.dta — Recorded on 03-MAY-2015 13:15
System Versions: Plotted with 15.01.2520

REPEAT SECTION OVERLAY

BEFORE SURVEY CALIBRATION

C:\Logs\CAERUS\PUCKETT 42B-2\WATER LEVEL SWITCH 1.dta

General Constants All 000

Last Edited on 04-MAY-2015,08:26

General Parameters		
Mud Resistivity	1.850	ohm-metres
Mud Resistivity Temperature	67.900	degrees F
Water Level	1824.000	feet
Borehole Fluid Processing	Water Level Switch	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

High Resolution Temperature Calibration MCG-D.K 482

Field Calibration on 03-APR-2014,07:59

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-D.K 482

Last Edited on 03-APR-2014,07:59

Pre-filter Length	11

Gamma Calibration MCG-D.K 482

Field Calibration on 03-MAY-2015 09:14

	Measured	Calibrated (API)
Background	146	101
Calibrator (Gross)	1470	1013
Calibrator (Net)	1324	912

Gamma Calibration Tolerances MCG-D.K 482

Ratio 1.452 (1.40 | 1.475 | 1.55) Counts/API

Gamma Constants MCG-D.K 482

Last Edited on 03-MAY-2015,09:15

Gamma Calibrator Number	GRC 072	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.11	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

Neutron Calibration MDN-B.J 427

Base Calibration on 16-APR-2015 10:07
Field Check on 03-MAY-2015 08:48

Base Calibration

	Measured	Calibrated (cps)

	Near	Far	Near	Far
	3212	98	3714	110
Ratio	32.937		33.764	

Field Calibrator at Base	Calibrated (cps)	
	1349	1972
Ratio	0.684	

Field Check	Calibrated (cps)	
	1371	2047
Ratio	0.669	

Neutron Calibration Tolerances MDN-B.J 427

Near Reading	3212	-25% 3500 +25%	cps	Far Reading	98 -50% 106 +50% cps
Ratio	32.937	-5% 33 +5%			
Base Check	0.684	0.65 0.7 0.75			
Field Check	0.669	0.664 0.684 0.704			

Neutron Constants MDN-B.J 427

Last Edited on 03-MAY-2015,19:26

Neutron Source Id	N1057	
Neutron Jig Number	NJ5922	
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	

Imager Pad Check MIE-A.A 125

Field Check on 25-OCT-2012 14:57

Pad 1	20/20 Buttons Verified	Pad 5	20/20 Buttons Verified
Pad 2	24/24 Buttons Verified	Pad 6	24/24 Buttons Verified
Pad 3	20/20 Buttons Verified	Pad 7	20/20 Buttons Verified
Pad 4	24/24 Buttons Verified	Pad 8	24/24 Buttons Verified

Compact Micro Imager Constants MIE-A.A 125

Last Edited on 06-MAR-2012 19:24

Sonde Configuration	Imager Mode	
Arm-Pad Kit	Normal Pads (12.25 in)	
Arm-Pad Kit Serial Number		
Centre Pad 1 Rotational Offset	0.00	degrees
Image/Borehole Ovality Reference	Azimuth of Pad 1	
Non Active Buttons	Omit	
Search Angle	0.00	degrees
Correlation Interval	3.28	feet
Correlation Step	1.64	feet
Current Offset	0.0000	mAmp
Squasher Start	N/A	mAmp
Image Processing	Enabled	

Navigation Constants MIE-A.A 125

Last Edited on 25-JUN-2012,16:59

Magnetic Declination	0.00	degrees	East

Magnetometer Parameters MIE-A.A 125

Date Of Last Magnetometer Calibration 23-DEC-2014,14:16

	X Magnetometer	Y Magnetometer	Z Magnetometer
Slope	-1.000000	-0.999033	-0.988959
Offset	0.017519	-0.017192	0.004090

Magnetometer Constants MIE-A.A 125

Last Edited on

Magnetometer Calibrator Number 000

Accelerometer Parameters MIE-A.A 125

Date Of Last Accelerometer Calibration 22-DEC-2014,19:45

	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.107870	-1.106070	-1.112841
Offset	0.003941	-0.002697	-0.003244

Accelerometer Constants MIE-A.A 125

Last Edited on 03-MAY-2015,08:44

Accelerometer Calibrator Number 000

Accelerometer Temperature Characterisation

X Accelerometer

Serial Number	867			
Calibration Date	25-Jun-2009			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	8.88300e-006	1.42920e-008	-7.14234e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.84901e-004	3.65464e-007	1.00140e-009

Y Accelerometer

Serial Number	898			
Calibration Date	12-Apr-2010			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	3.09504e-006	-4.17750e-009	1.00603e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.73446e-004	3.06615e-007	8.00001e-010

Z Accelerometer

Serial Number	883			
Calibration Date	10-Apr-2010			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	8.19055e-006	-3.32398e-008	7.38691e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.68615e-004	3.36203e-007	6.38362e-010

Caliper Calibration MIE-A.A 125

Base Calibration on 01-MAY-2015 09:38
Field Calibration on 03-MAY-2015 08:42

Base Calibration

Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)
1	27069	27105	5.96
2	37294	37008	7.97
3	47093	46187	9.84
4	58419	57802	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	26110	24689	25459	25149	5.96
2	34605	33392	33700	33264	7.97
3	42769	41375	41509	41133	9.84
4	52413	51262	51126	50401	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)
7.86	7.89	7.97

Measured Pad 2 Caliper(in)	Measured Pad 4 Caliper(in)	Measured Pad 6 Caliper(in)	Measured Pad 8 Caliper(in)	Actual Caliper(in)
4.02	3.82	3.81	4.00	7.97

Caliper Calibration Tolerances MIE-A.A 125

Upper

Upper

Short Arm X Field Cal.	7.86	7.77 7.97 8.17	in	Short Arm Y Field Cal.	7.89	7.77 7.97 8.17 in

Lower

Short Arm X Field Cal.	7.83	7.77 7.97 8.17	in	Short Arm Y Field Cal.	7.82	7.77 7.97 8.17 in

Caliper Constants MIE-A.A 125

Last Edited on 06-MAR-2012 18:40

Caliper Difference for BRKT	0.120	inches

Induction Calibration MAI-C.A 483

Base Calibration on 10-OCT-2012,15:11
Field Check on 03-MAY-2015 08:38

Base Calibration

Test Loop Calibration Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	16.1	459.9	9.3	966.2
2	5.8	369.3	7.6	821.4
3	3.7	250.9	5.2	566.0
4	1.2	129.5	2.6	279.2
Array Temperature		79.7	Deg F	

Test Loop Calibration Verified 17-APR-2015 15:36

Channel	Base Check (mmho/m) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High
1	-5.1	2097.4	-3.5	2098.8
2	14.2	1949.3	14.5	1949.6
3	13.8	1686.2	14.0	1686.0
4	11.5	1136.6	11.5	1136.5
Deep	8.4	1091.8	8.6	1091.5
Medium	20.8	2236.9	20.9	2236.7
Shallow	20.9	2890.2	21.4	2890.9
Array Temperature		41.4	64.4	Deg F

Induction Calibration Tolerances MAI-C.A 483

Low Conductivity 1	16.1	13.0 17.0 21.0	mmho/m	High Conductivity 1	459.9	430.0 475.0 520.0	mmho/m
Low Conductivity 2	5.8	4.5 6.0 7.5	mmho/m	High Conductivity 2	369.3	345.0 385.0 425.0	mmho/m
Low Conductivity 3	3.7	1.0 3.5 6.0	mmho/m	High Conductivity 3	250.9	240.0 260.0 280.0	mmho/m
Low Conductivity 4	1.2	0.0 2.0 4.0	mmho/m	High Conductivity 4	129.5	120.0 135.0 150.0	mmho/m
Background Vx 1	0.0	-110.0 -32.5 45.0	mmho/m	Phase Check Loop 1	0.0	-2.0 0.0 2.0	%
Background Vx 2	0.0	-35.0 20.0 75.0	mmho/m	Phase Check Loop 2	0.0	-2.0 0.0 2.0	%
Background Vx 3	0.0	-60.0 2.5 65.0	mmho/m	Phase Check Loop 3	0.0	-2.0 0.0 2.0	%
Background Vx 4	0.0	-50.0 -17.5 15.0	mmho/m	Phase Check Loop 4	0.0	-2.0 0.0 2.0	%

Induction Constants MAI-C.A 483

Last Edited on 03-MAY-2015,19:27

Induction Model	RtAP-WBM	
Borehole Correction Constants		
Tool Centred	Yes	
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Stand-off Type	N/A	
Stand-off	N/A	inches
Number of Fins on Stand-off	N/A	
Stand-off Fin Angle	N/A	degrees
Stand-off Fin Width	N/A	inches
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	
Squasher Start	0.0020	mhos/metre
Squasher Offset	N/A	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000

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

Calibration Site Corrections

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

Apparent Porosity and Water Saturation Constants

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

Caliper Calibration MPD-C.J 380

Base Calibration on 16-APR-2015 14:09
Field Calibration on 03-MAY-2015 09:02

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14304	3.98
2	22781	5.96
3	31425	7.97
4	39568	9.84
5	48801	11.91
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.91	7.97

Caliper Calibration Tolerances MPD-C.J 380

		7.57	7.97	8.37	
Long Arm Field Cal.	7.91				in

Photo Density Calibration MPD-C.J 380

Base Calibration on 16-APR-2015 12:47
Field Check on 03-MAY-2015 09:00

Density Calibration

Base Calibration	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Background	1306	1457		
Reference 1	57172	27389	59443	30683
Reference 2	24015	2740	25113	2508
Field Check at Base	1305.7	1457.0		
Field Check	1301.6	1460.7		

PE Calibration

Base Calibration	Measured WS	Measured WH	Measured Ratio	Calibrated Ratio
Background	236	1172		
Reference 1	23343	56964	0.414	0.372
Reference 2	6738	23871	0.286	0.268
Field Check at Base	236.3	1172.3		
Field Check	235.1	1167.9		

Photo Density Calibration Tolerances MPD-C.J 380

Near Density Ratio	2.46	-5% 2.52 +5%	Far Density Ratio	20.21	-5% 21.00 +5%
PE Calibration	0.115	0.089 0.110 0.131			
Near Den. Field Check	1301.6	-3% 1305.7 +3%	Far Den. Field Check	1460.7	-3% 1457.0 +3%
PE WS Field Check	235.1	-6% 236.3 +6%	PE WH Field Check	1167.9	-6% 1172.3 +6%

Density Constants MPD-C.J 380

Last Edited on 03-MAY-2015,09:16

Density Source Id	P50562B	
Nylon Calibrator Number	659	
Aluminium Calibrator Number	657	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.11	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	

Matrix Density (gm/cc)	Depth (ft)
2.68	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

DOWNHOLE EQUIPMENT

C:\Logs\CAERUS\PUCKETT 42B-2\WATER LEVEL SWITCH 1.dta

CBH-C, Cablehead, 11 pin
CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 316 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma
MCG-D.K 482 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Neutron
MDN-B.J 427 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper
MPD-C.J 380 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

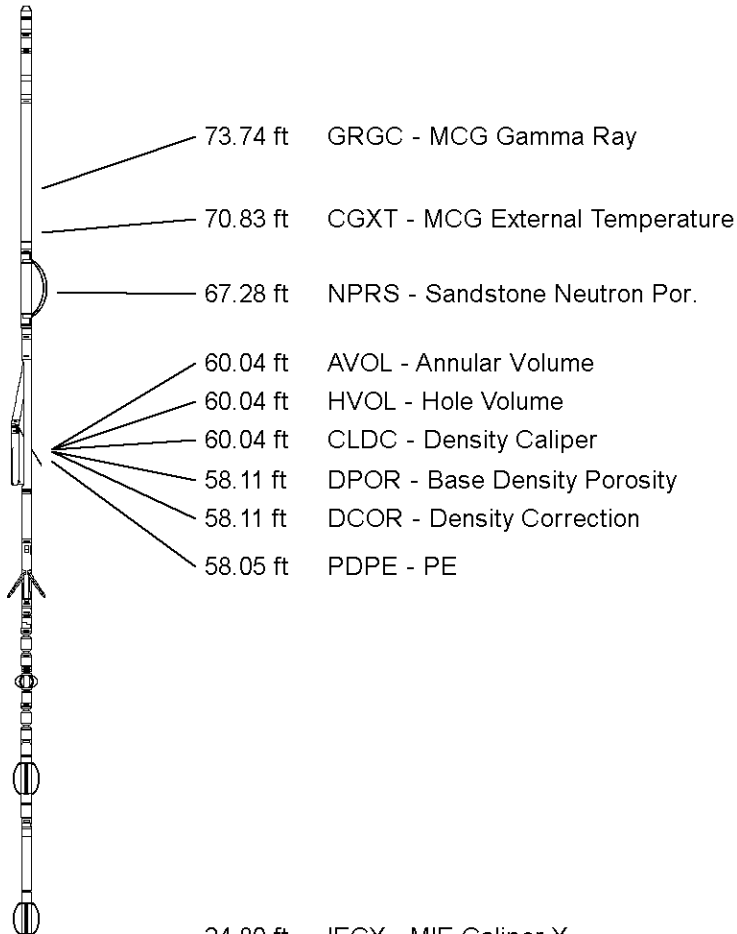
Compact Vee Arm Caliper
MVC-A.A 140 LG: 8.06 ft WT: 61.7 lb OD: 2.244 in

SKJ-D Compact Knuckle Joint
SKJ-D 29 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

SKJ-E.A Compact Knuckle Joint
SKJ-E.A 259 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact MMI Memory Section



MIM-A.A 125 LG: 4.65 ft WT: 26.5 lb OD: 2.244 in

Compact MMI Electrode Section
MIE-A.A 125 LG: 13.96 ft WT: 99.2 lb OD: 4.094 in

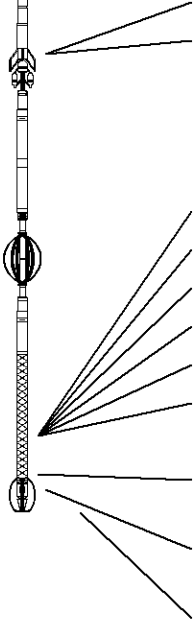
Compact Focussed Electric
MFE-C.A 417 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 418 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

Compact Induction
MAI-C.A 483 LG: 10.81 ft WT: 48.5 lb OD: 2.240 in

Compact Hole Finder
HFS 1 LG: 4.25 ft WT: 2.2 lb OD: 2.240 in

Total Length: 87.97 ft Weight: 634.9 lb



24.80 ft	IECY - MIE Caliper Y
24.80 ft	IECX - MIE Caliper X
3.34 ft	R20O - Array Ind. One Res 20
3.34 ft	R40O - Array Ind. One Res 40
3.34 ft	R30O - Array Ind. One Res 30
3.34 ft	RTAO - Array Ind. One Res Rt
3.34 ft	R85O - Array Ind. One Res 85
3.34 ft	R60O - Array Ind. One Res 60
0.23 ft	SPCG - Spontaneous Potential
Tool Zero	(4.38ft from bottom)
-4.38 ft	SMTU - DST Uphole Tension

All measurements relative to tool zero.

COMPANY	CAERUS OIL & GAS
WELL	PUCKETT 42B-2
FIELD	WILDCAT
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	8507.00	feet	First Reading	8914.00	feet
Elevation Drill Floor	8507.00	feet	Depth Driller	8917.00	feet
Elevation Ground Level	8477.00	feet	Depth Logger	8914.00	feet

Weatherford®

COMPACT TRIPLE COMBO
QUICKLOOK LOG