XTREME WIRELINE INC

MEASURED DEPTH
COMPACT QUAD COMBO

COMPANY	SNAKE RIVER OIL AND GAS, LLC
WELL	IRVIN #1-19
FIELD	WILDCAT
COUNTY	PAYETTE
STATE	U.S.A. / IDAHO
LOCATION	SHL: 904' FSL & 925' FWL

SEC 19	TWP 8N	RGE 4W	Other Services
Latitude	44.0134238889		
Longitude	116.8699952778		
API Number	11-075-20039		

Permanent Datum GL, Elevation 2192 feet
Log Measured From KB, 12.50 feet above Permanent Datum
Drilling Measured From KB

Elevations:	feet
KB	2204.50
DF	2204.50
GL	2192.00

Date	17-OCT-2022				
Run Number	1				
Service Order	113-85				
Depth Driller	5500.00	feet			
Depth Logger	5504.00	feet			
First Reading	5499.68	feet			
Last Reading	0.00	feet			
Casing Driller	1130.00	feet			
Casing Logger	1127.00	feet			
Bit Size	8.500	inches			
Hole Fluid Type	WBM				
Density / Viscosity	11.10 lb/USg		41.00 sec/qt		
PH / Fluid Loss	7.00		3.50 ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	4.68 @ 75.0	ohm-m			
Rmf @ Measured Temp	3.51 @ 75.0	ohm-m			
Rmc @ Measured Temp	5.85 @ 75.0	ohm-m			
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	1.708 @210.0	ohm-m			
Time Since Circulation	7 HRS				
Max Recorded Temp	210.00	deg F			
Equipment / Base	113		CASPER		
Recorded By	ENDER GARCIA			CARLOS ARVELO	
Witnessed By	CLINTON HARMAN				
RIG	PAUL GRAHAM				

RECEIVED
jthum , 11/17/2022, 11:27:40 AM

BOREHOLE RECORD

Last Edited: 17-OCT-2022 23:54

Bit Size (inches)	Depth From (feet)	Depth To (feet)
8.500	1130.00	5500.00

CASING RECORD

Type	Size (inches)	Depth From (feet)	Shoe Depth (feet)	Weight (pounds/ft)
SURFACE	9.625	0.00	1130.00	40.00

REMARKS

SOFTWARE: LOGGED WITGH WLS 22.11.1632

CALIBRATED MEASURE WHEEL PROCEDURE. FIRST RUN IN HOLE.

QUAD COMBO LOG RECORDED FROM 5504 FT TO SURFACE CASING AND GR TO SURFACE AS REQUESTED BY CUSTOMER

TOOLS RUN: MAI, MFE, MISD, MSS, MTC, SKJ, MISE, SKJ, MPD, MDN, MBN, MVC, MCG, SHA, CBH

HARDWARE: MAI: INLINE CENTRALIZER FITTED AT BOTTOM
MISD CENTRALIZER AT TOP
MSS: MISD CENTRALIZER BELOW AND MTC WITH BASKET ABOVE
MTC: OVERBODY CENTRALIZER ON THE TOOL
MPD: 8" PROFILE PLATE FITTED
MDN: DUAL BOWSPRING ECCENTRALIZER FITTED

MATRIX FOR POROSITY CALCULATION: 2.65 G/CC

ANNULAR VOLUME BASED ON 5.5" PRODUCTION CASING

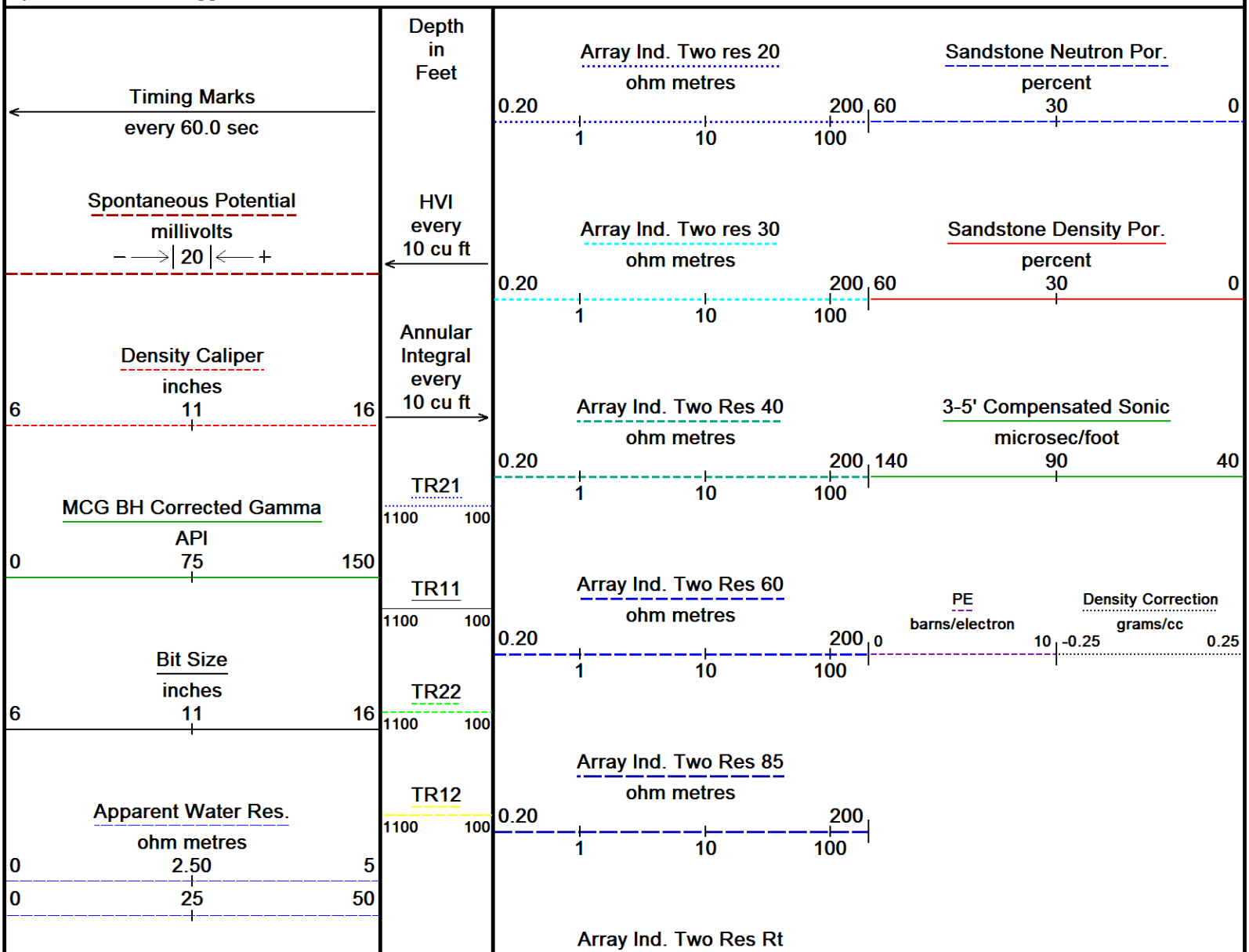
FOR HVOL AND AVOL PLEASE SEE LOG

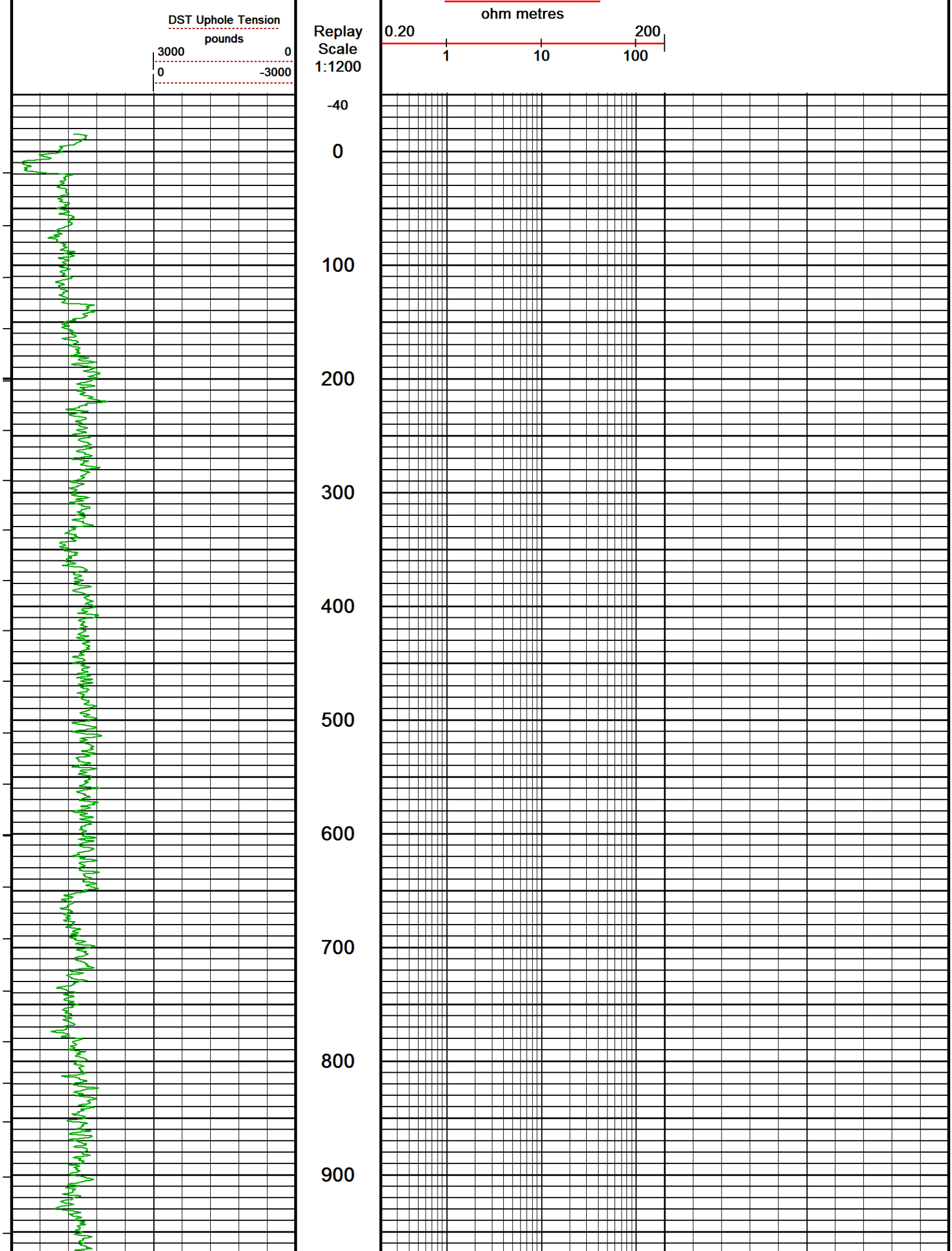
CREW: ARVELO, GARCIA, TODD, MUIR

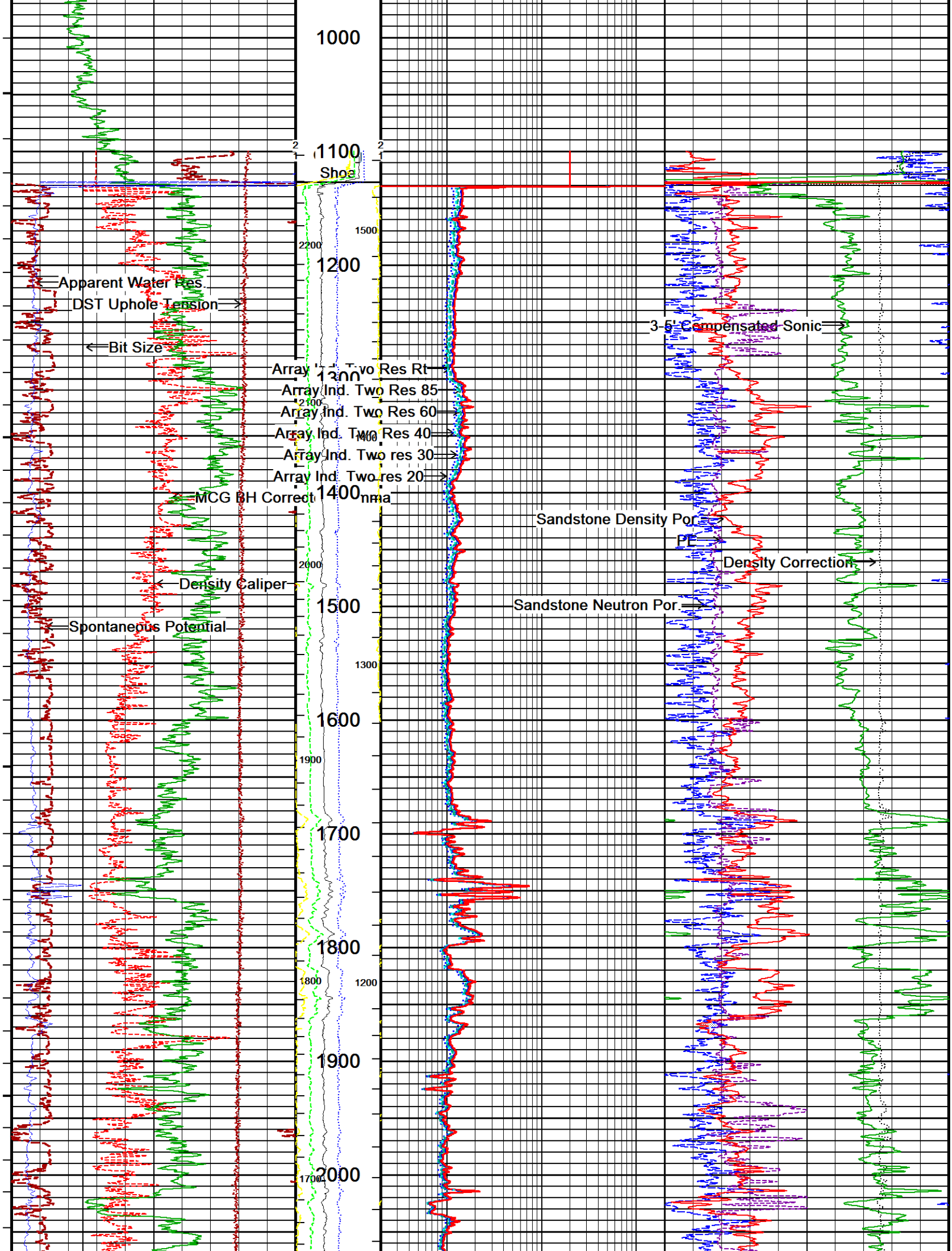
1 INCH MAIN PASS

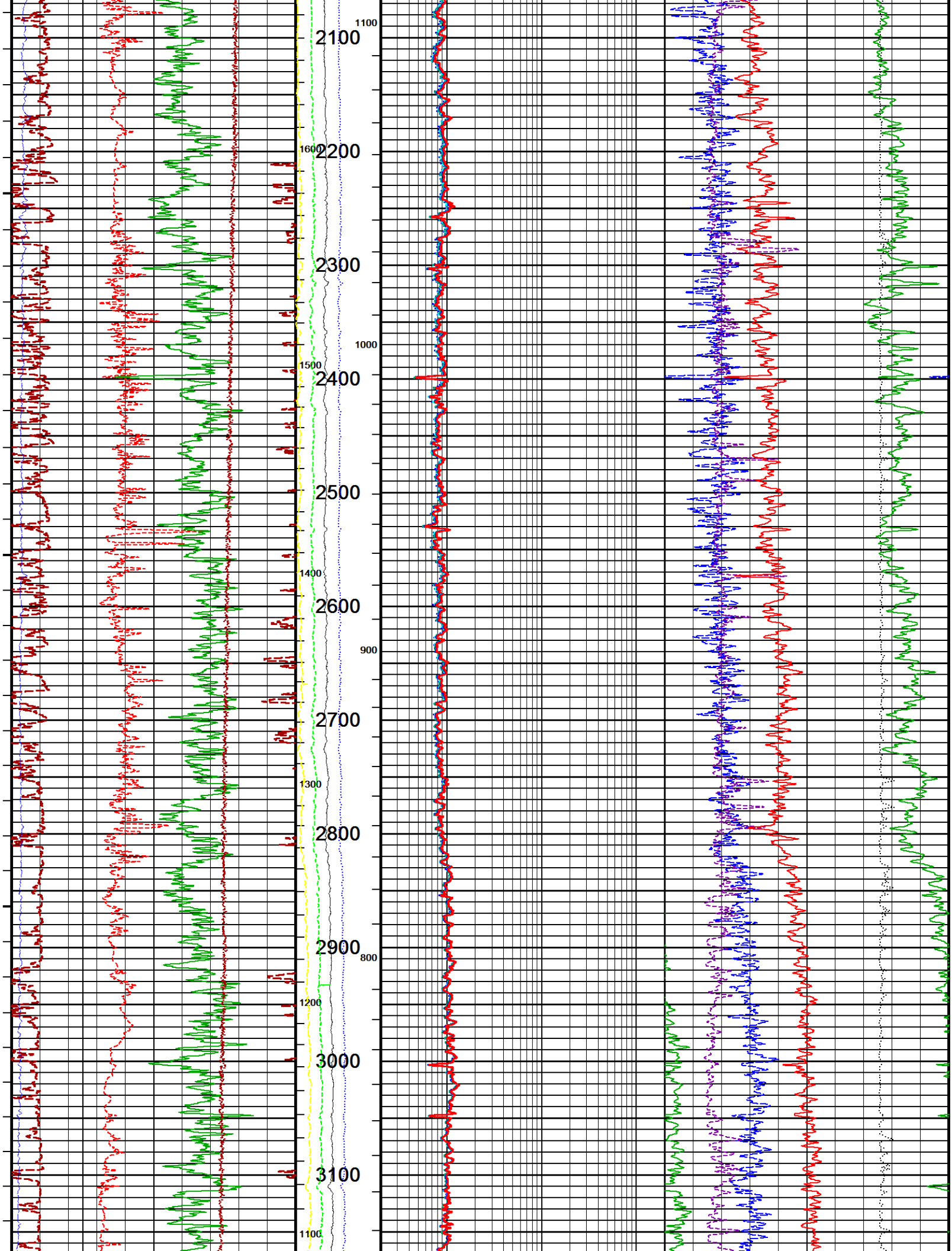
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\LOGS\SNAKE RIVER\IRVIN #1-19\MP.dta
System Versions: Logged with 22.11.1632 Plotted with 22.11.1632

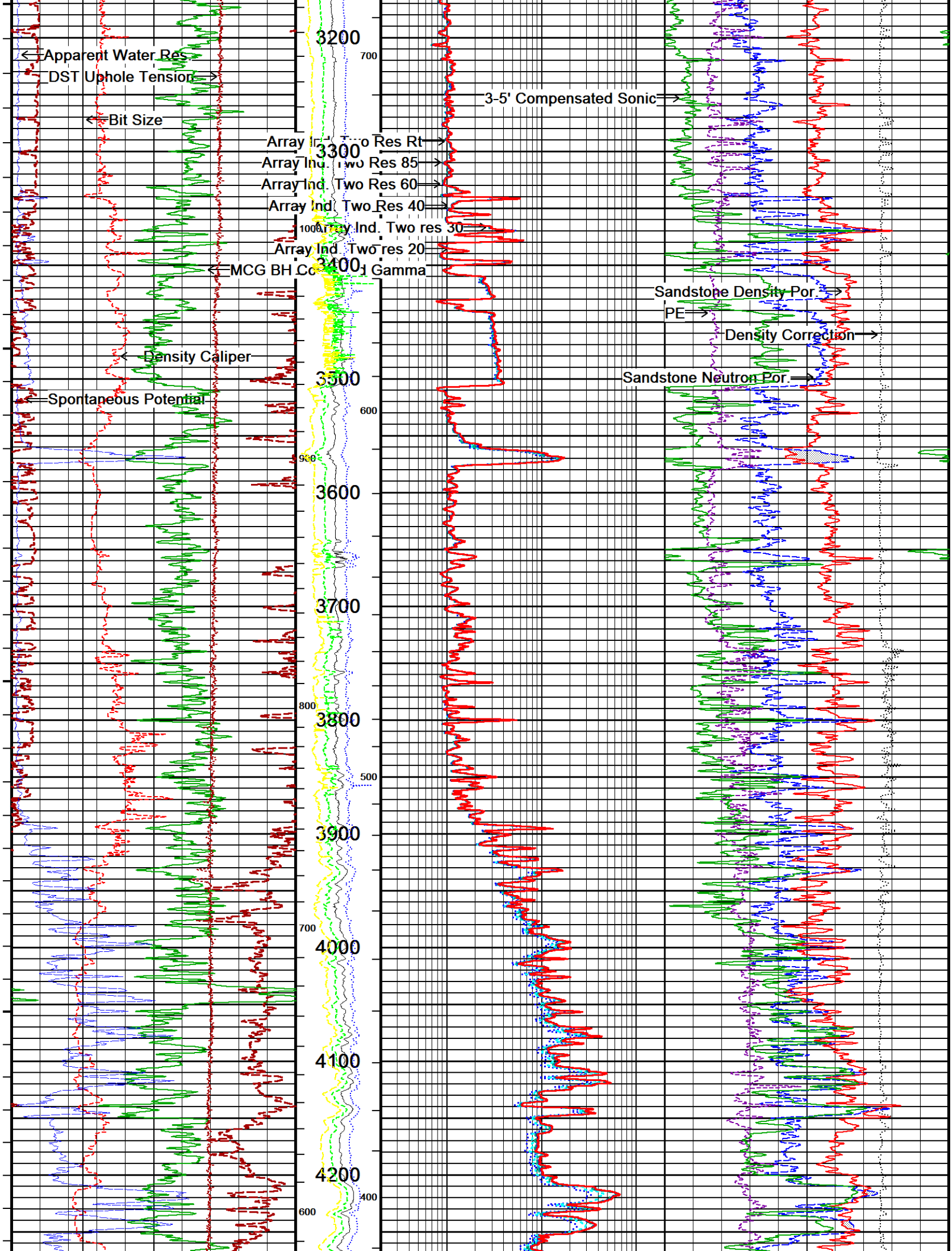
Plotted on 18-OCT-2022 06:46
Recorded on 18-OCT-2022 03:28

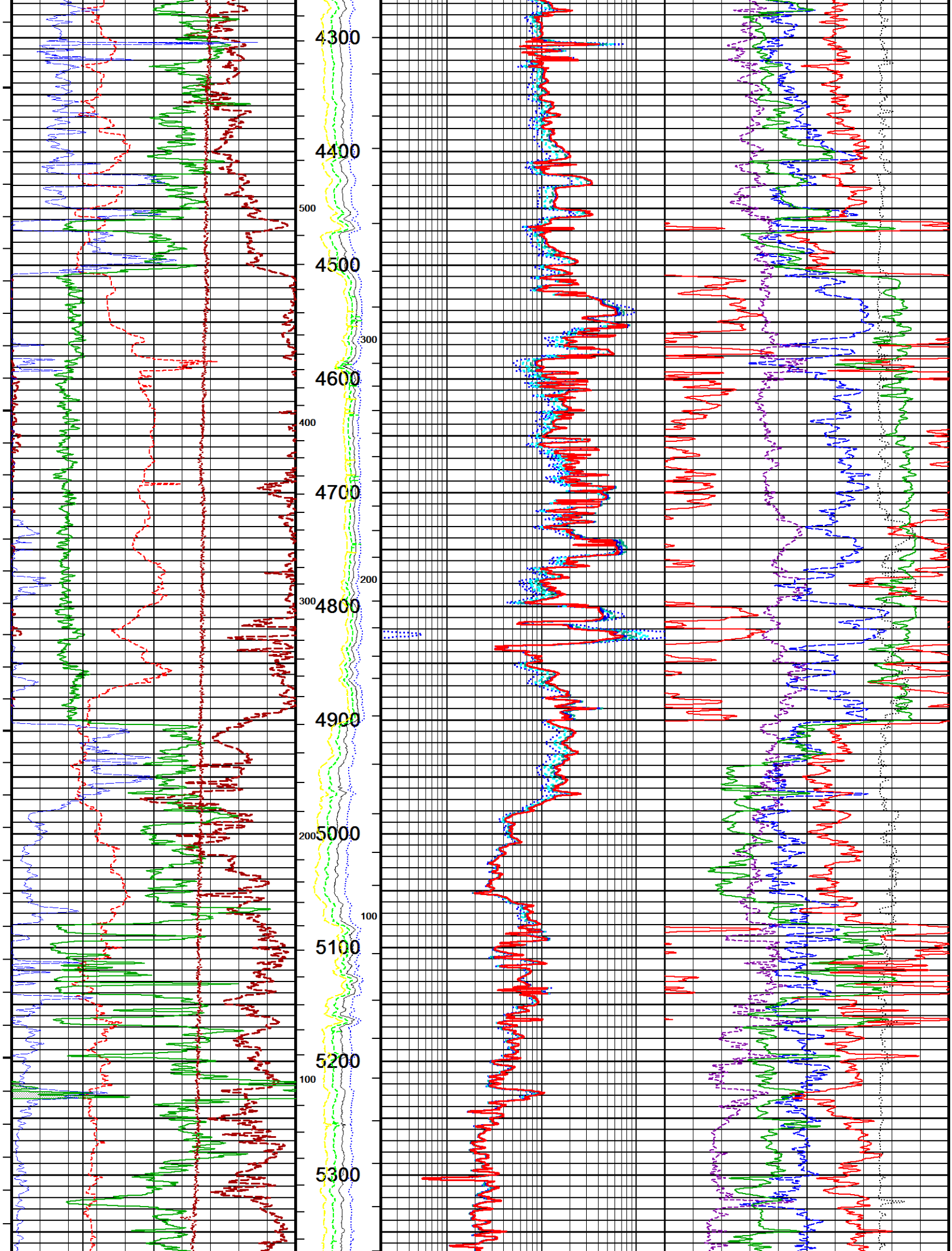


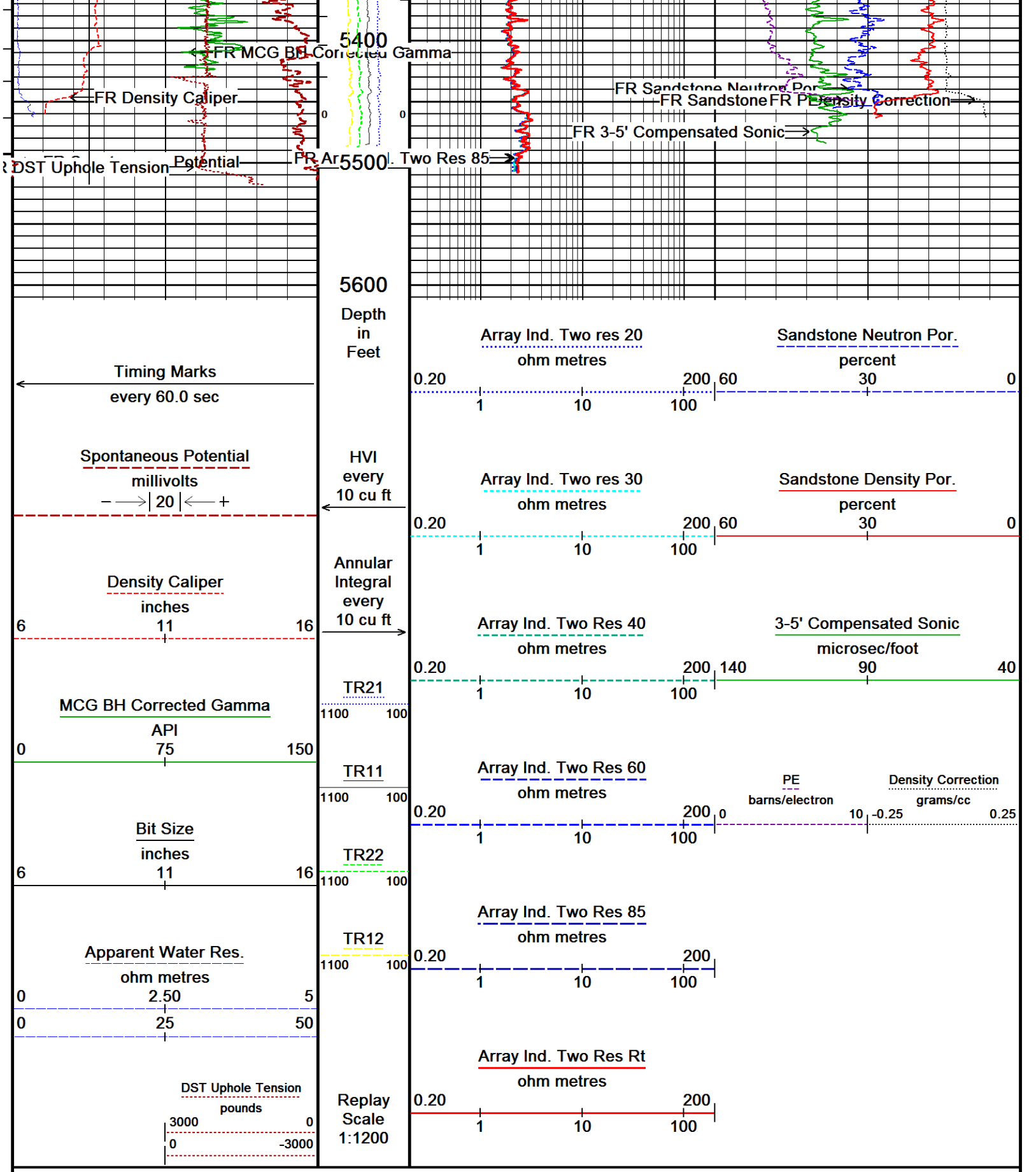

DST Uphole Tension
pounds
3000
0
0
-3000
Replay
Scale
1:1200
ohm metres
0.20
200
1
10
100
-40
0
100
200
300
400
500
600
700
800
900


1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
Shoe
Apparent Water Res.
DST Uphole Tension
Bit Size
MCG BH Correct
Density Caliper
Spontaneous Potential
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
gamma
3-6' Compensated Sonic
Sandstone Density Por
PE
Density Correction
Sandstone Neutron Por


1100
2100
1600
2200
2300
1000
1500
2400
2500
1400
2600
900
2700
1300
2800
2900
800
1200
3000
3100
1100


Apparent Water Res
DST Uphole Tension
Bit Size
Density Caliper
Spontaneous Potential
MCG BH Co
Gamma
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
3-5' Compensated Sonic
Sandstone Density Por
PE
Density Correction
Sandstone Neutron Por
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
700
1000
900
600
800
500
700
600
400


4300
4400
500
4500
300
4600
400
4700
200
300
4800
4900
200
5000
100
5100
5200
100
5300



Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\LOGS\SNAKE RIVER\IRVIN #1-19\MP.dta
System Versions: Logged with 22.11.1632 Plotted with 22.11.1632

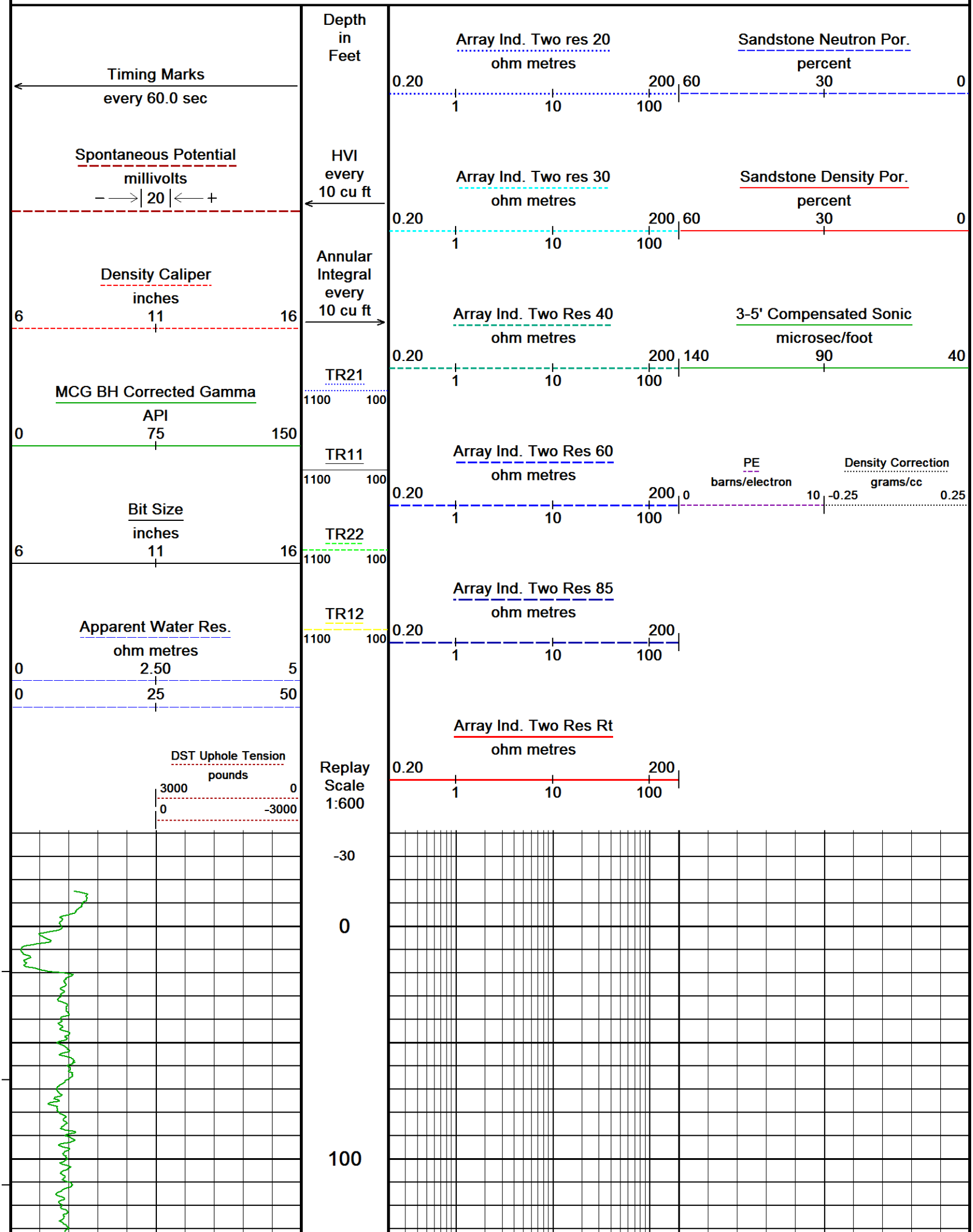
Plotted on 18-OCT-2022 06:46
Recorded on 18-OCT-2022 03:28

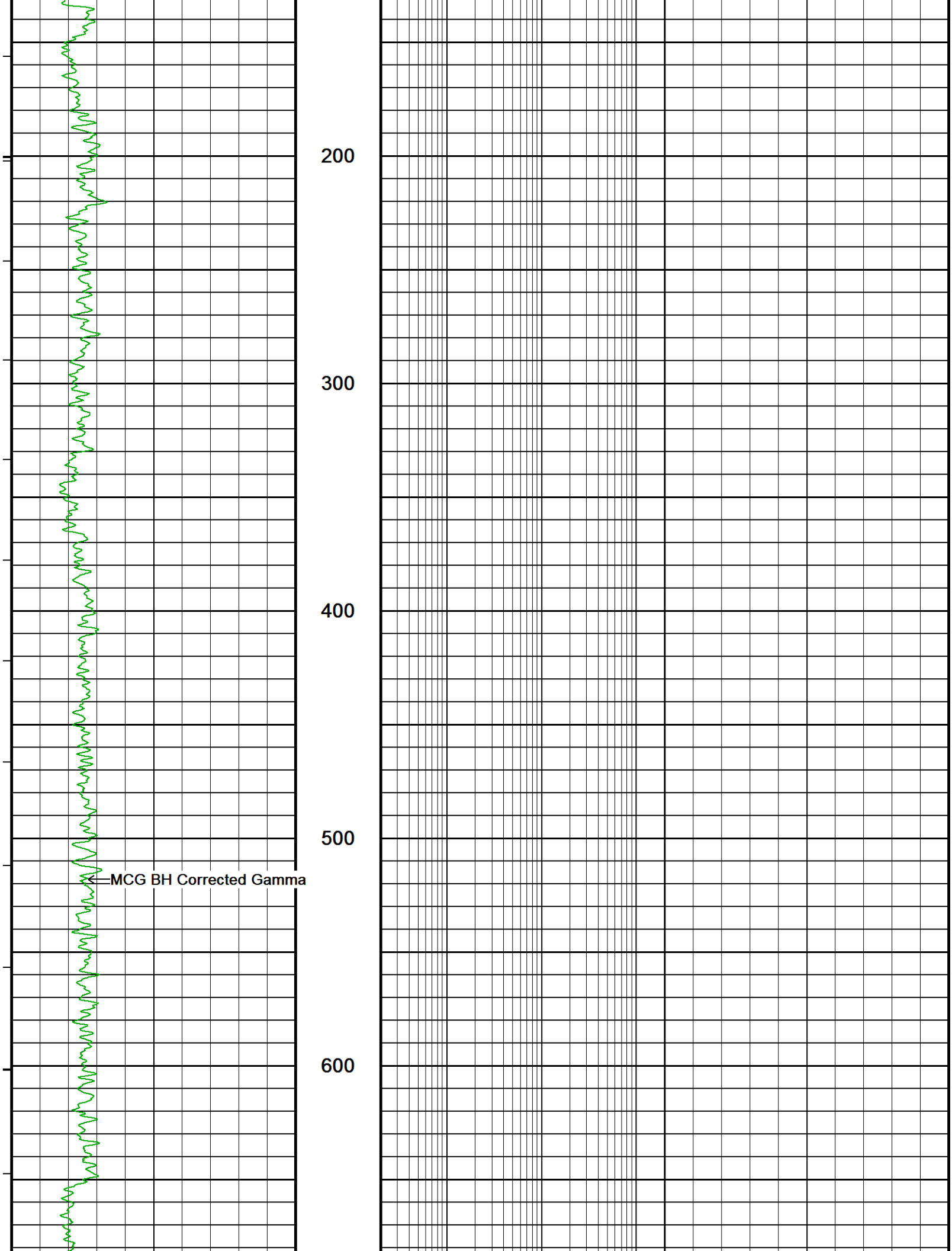
1 INCH MAIN PASS

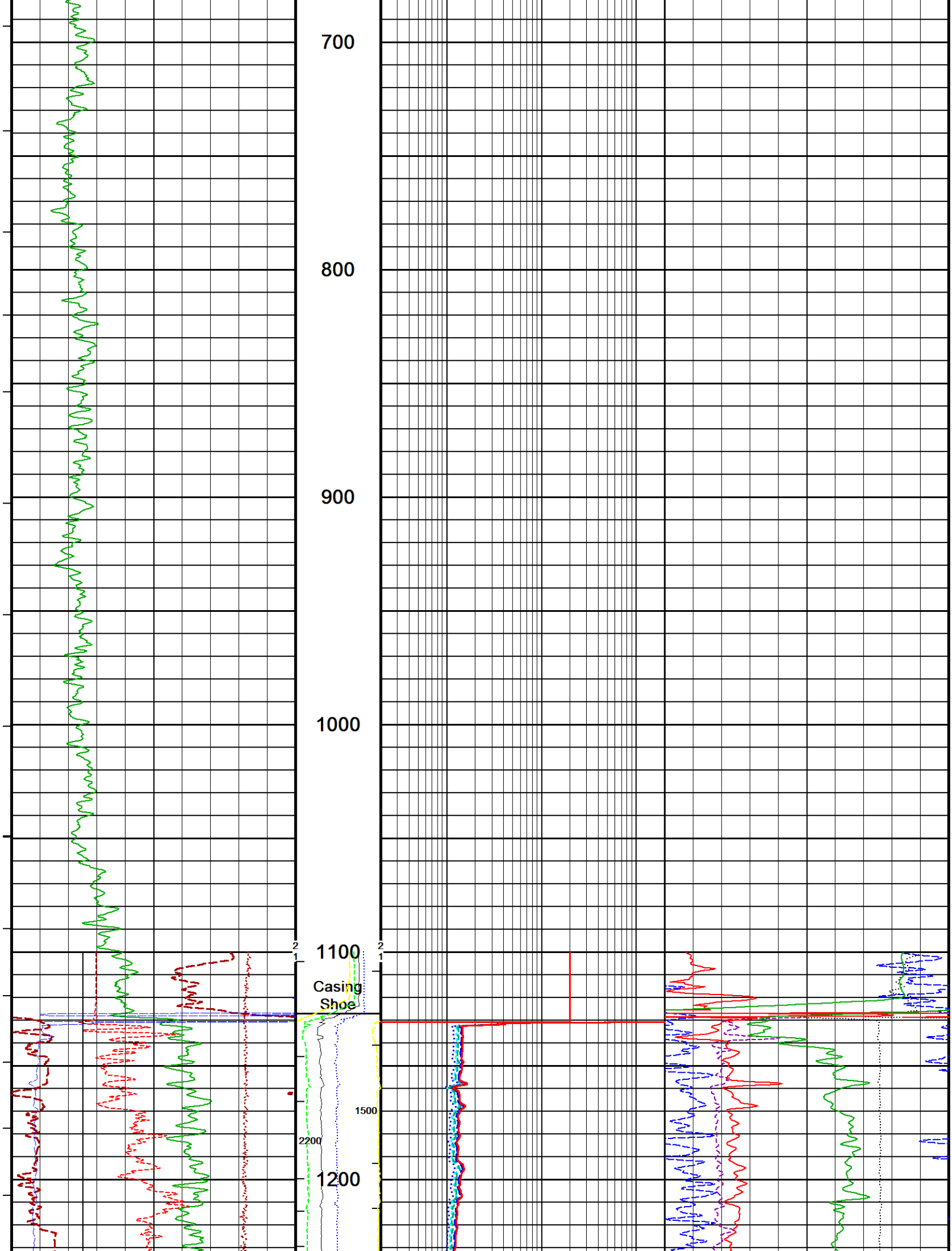
2 INCH MAIN PASS

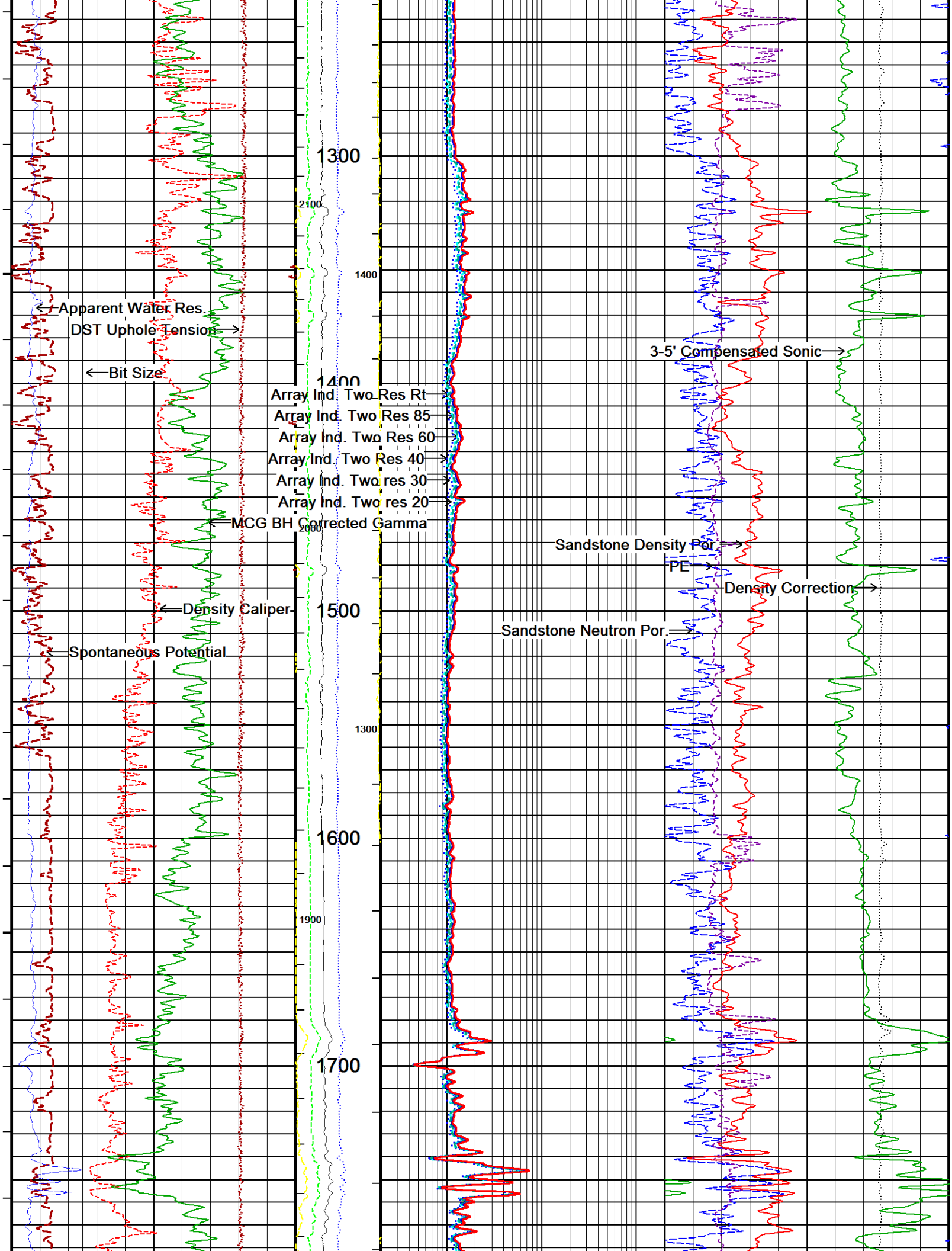
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 18-OCT-2022 06:46

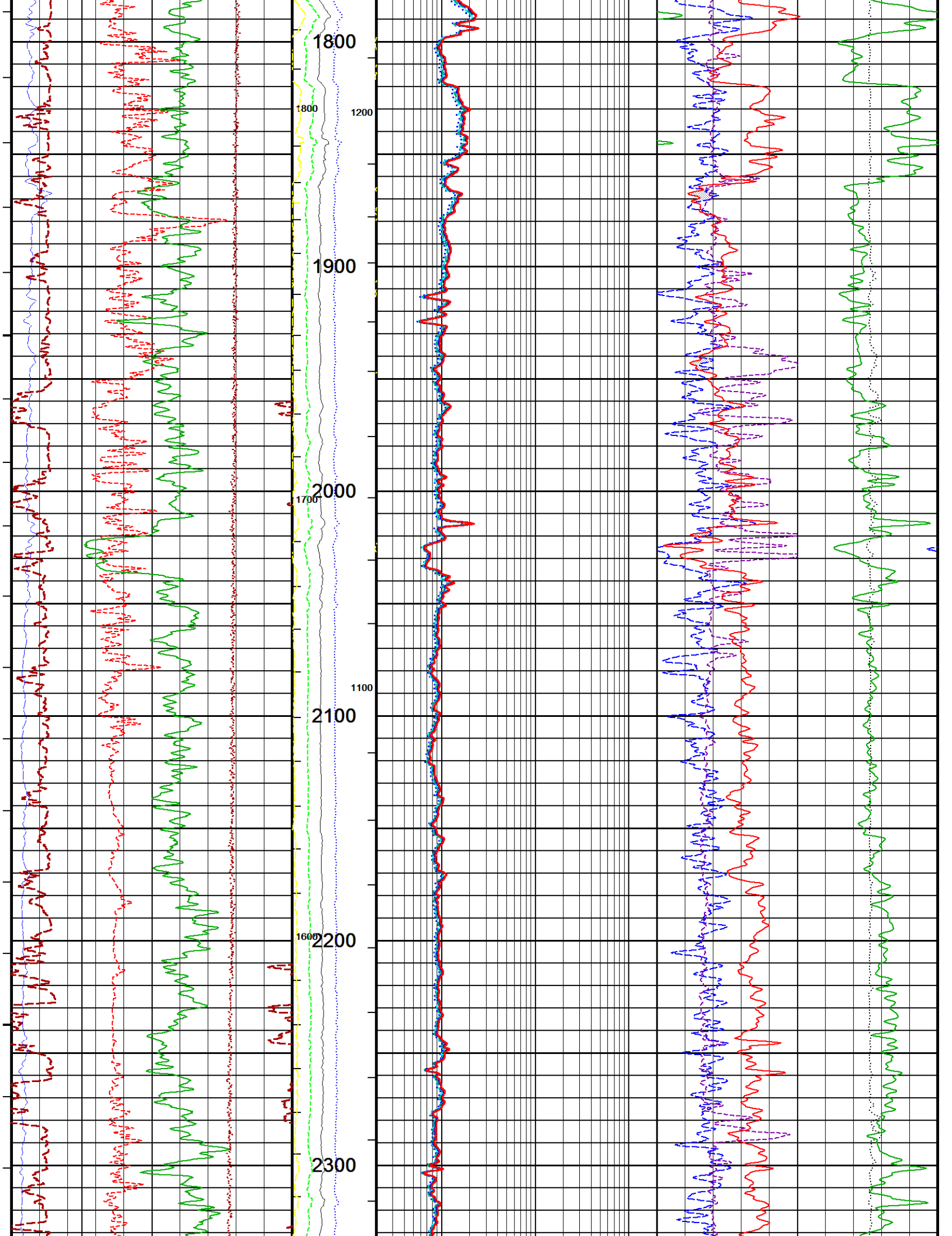
Depth Based Data Maximum Sampling Increment 15.0cm Plotted on 18-OCT-2022 08:40
Filename: C:\LOGS\SNAKE RIVER\IRVIN #1-19\MP.dta Recorded on 18-OCT-2022 03:28
System Versions: Logged with 22.11.1632 Plotted with 22.11.1632

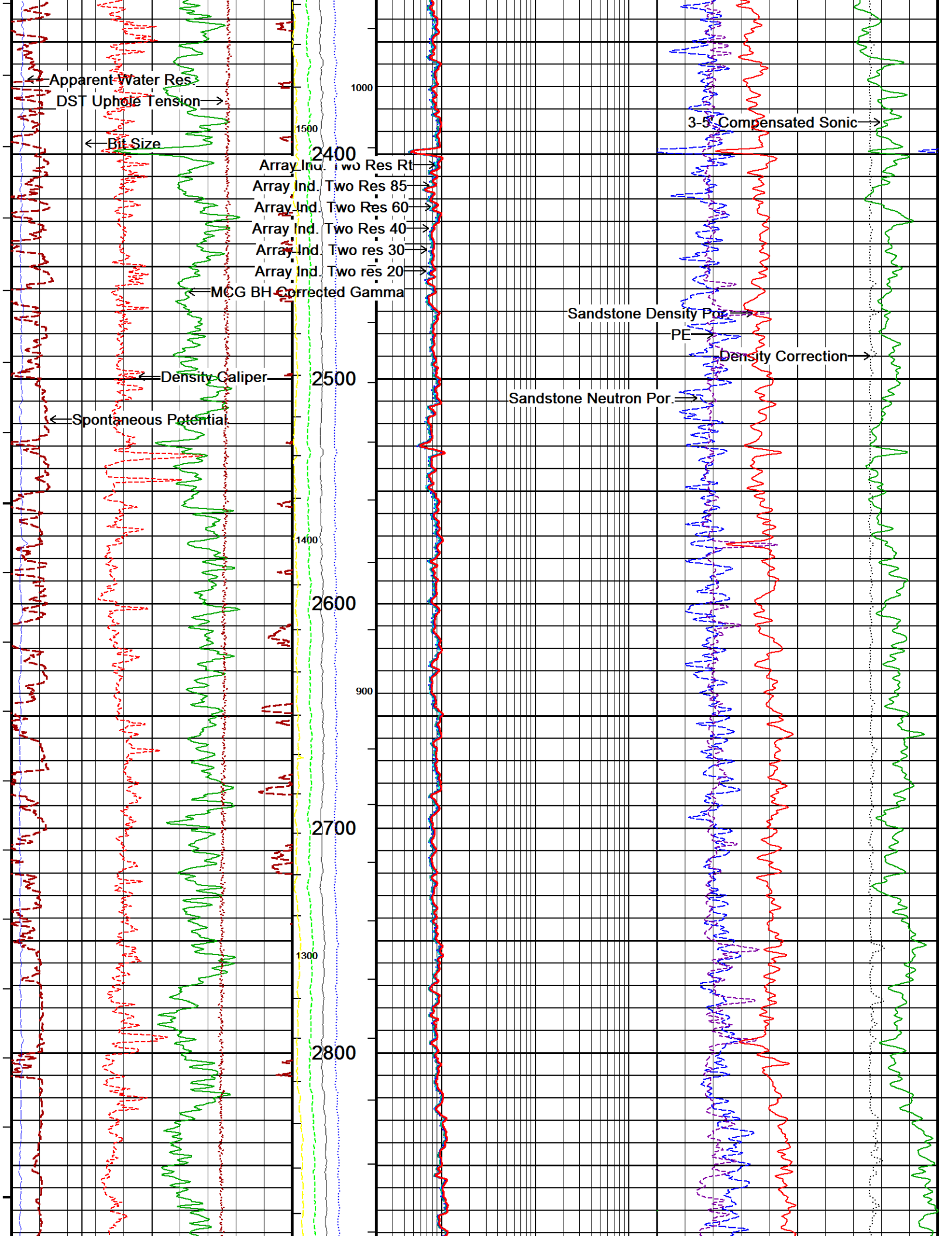


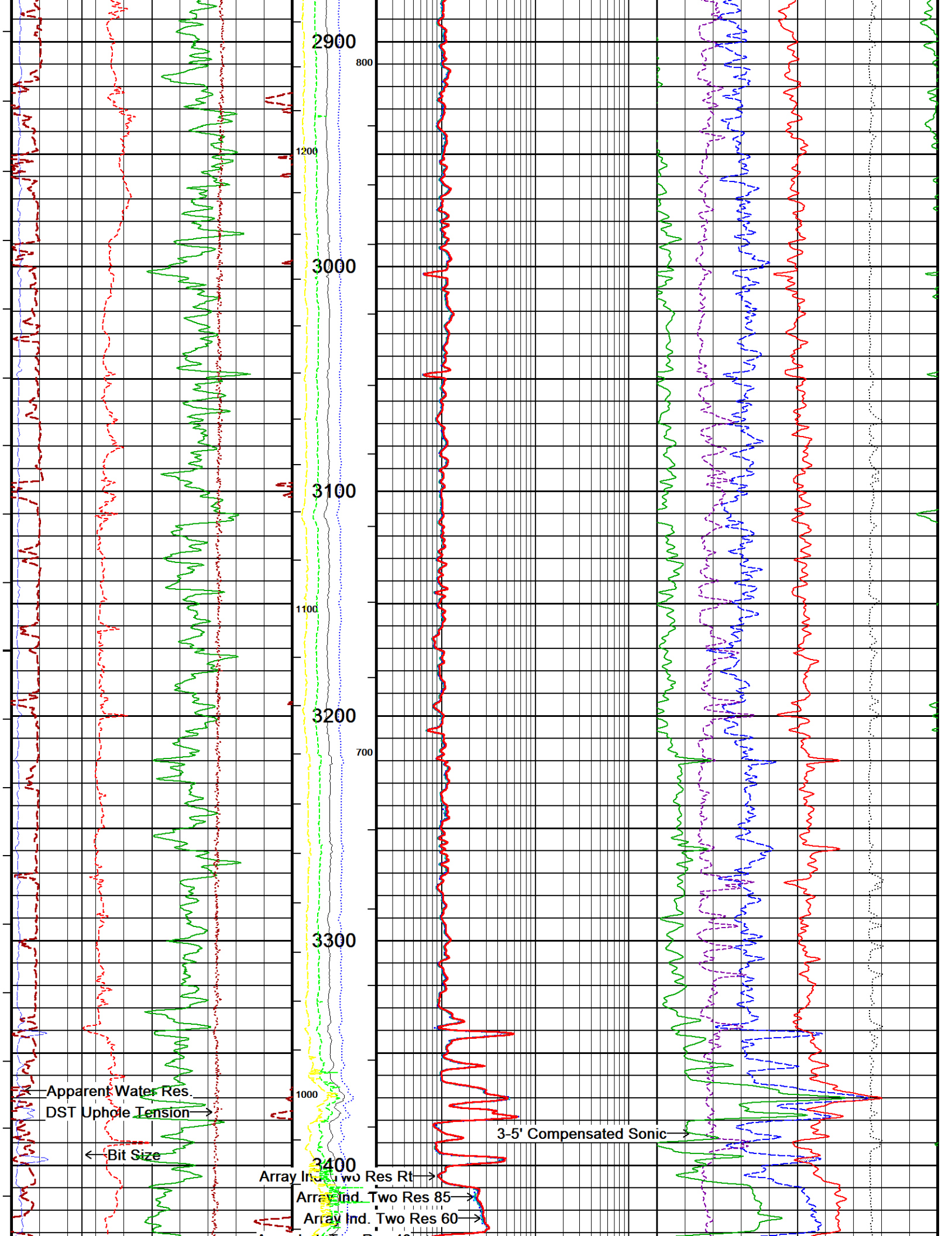

200
300
400
500
600
MCG BH Corrected Gamma

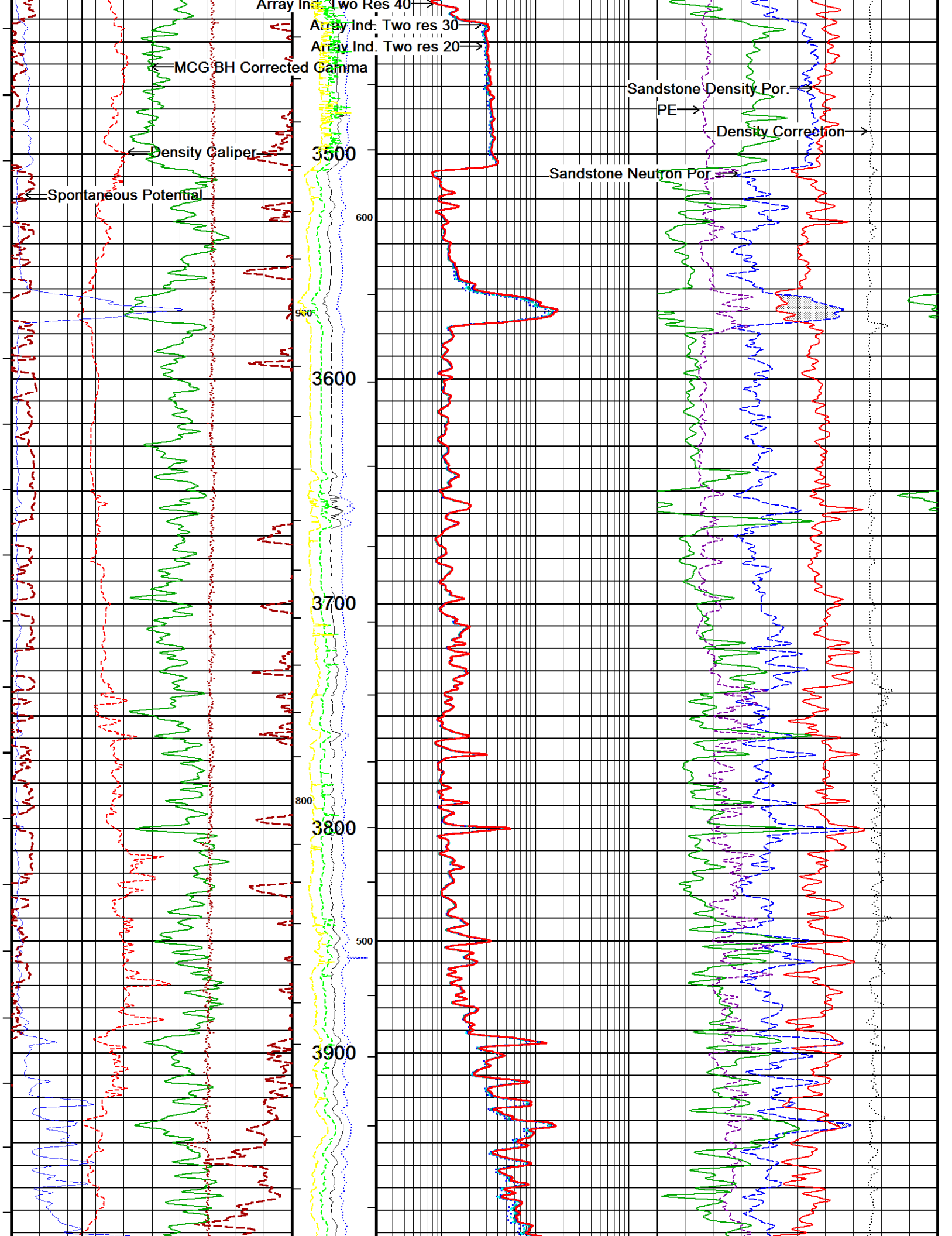

700
800
900
1000
1100
Casing
Shoe
1500
2200
1200

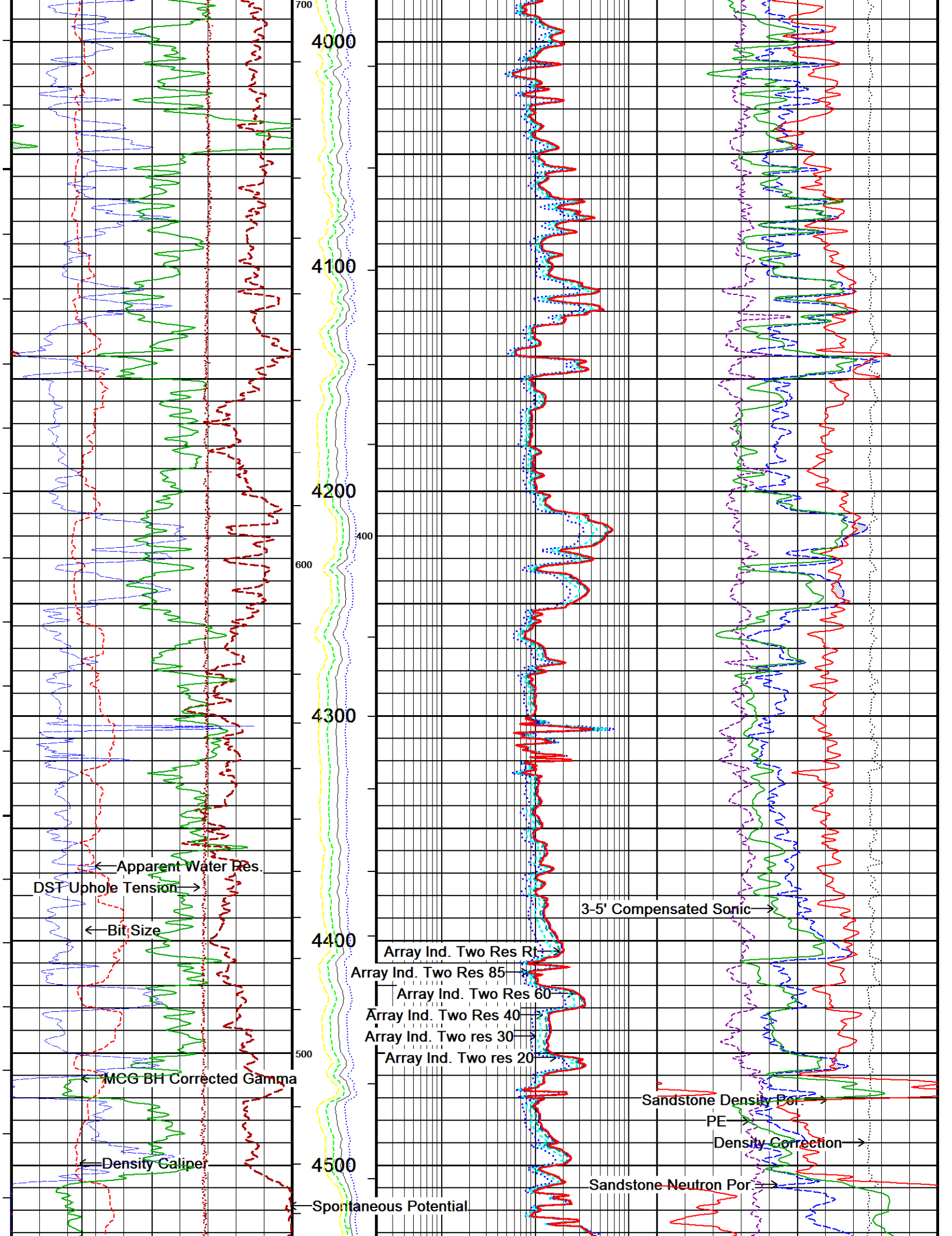

1300
2100
1400
1400
Apparent Water Res.
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
MCG BH Corrected Gamma
2000
3-5' Compensated Sonic
Sandstone Density Por
PE
Density Correction
Density Caliper
1500
Sandstone Neutron Por.
Spontaneous Potential
1300
1600
1900
1700

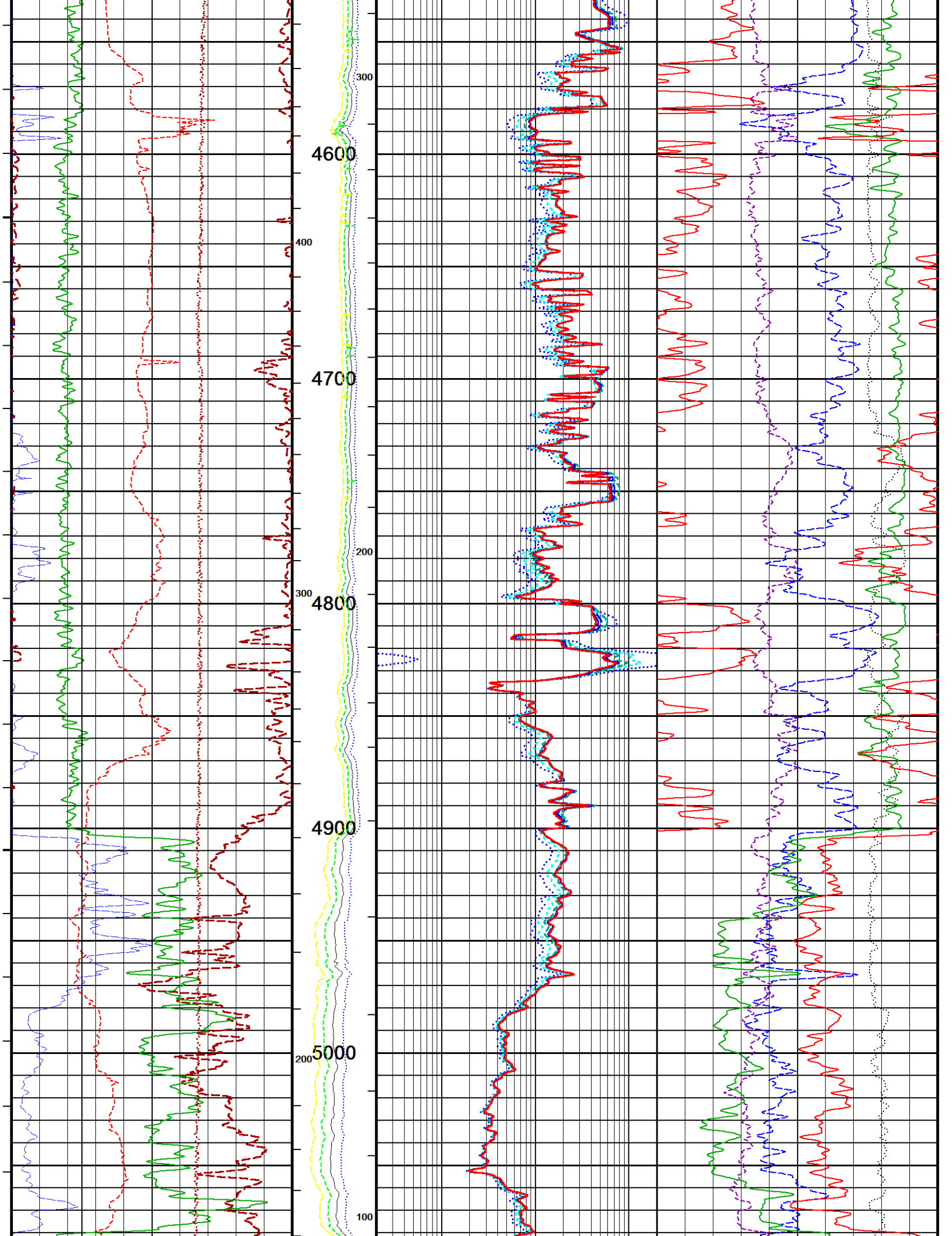

1800
1900
2000
2100
2200
2300
1800
1700
1600
1200
1100

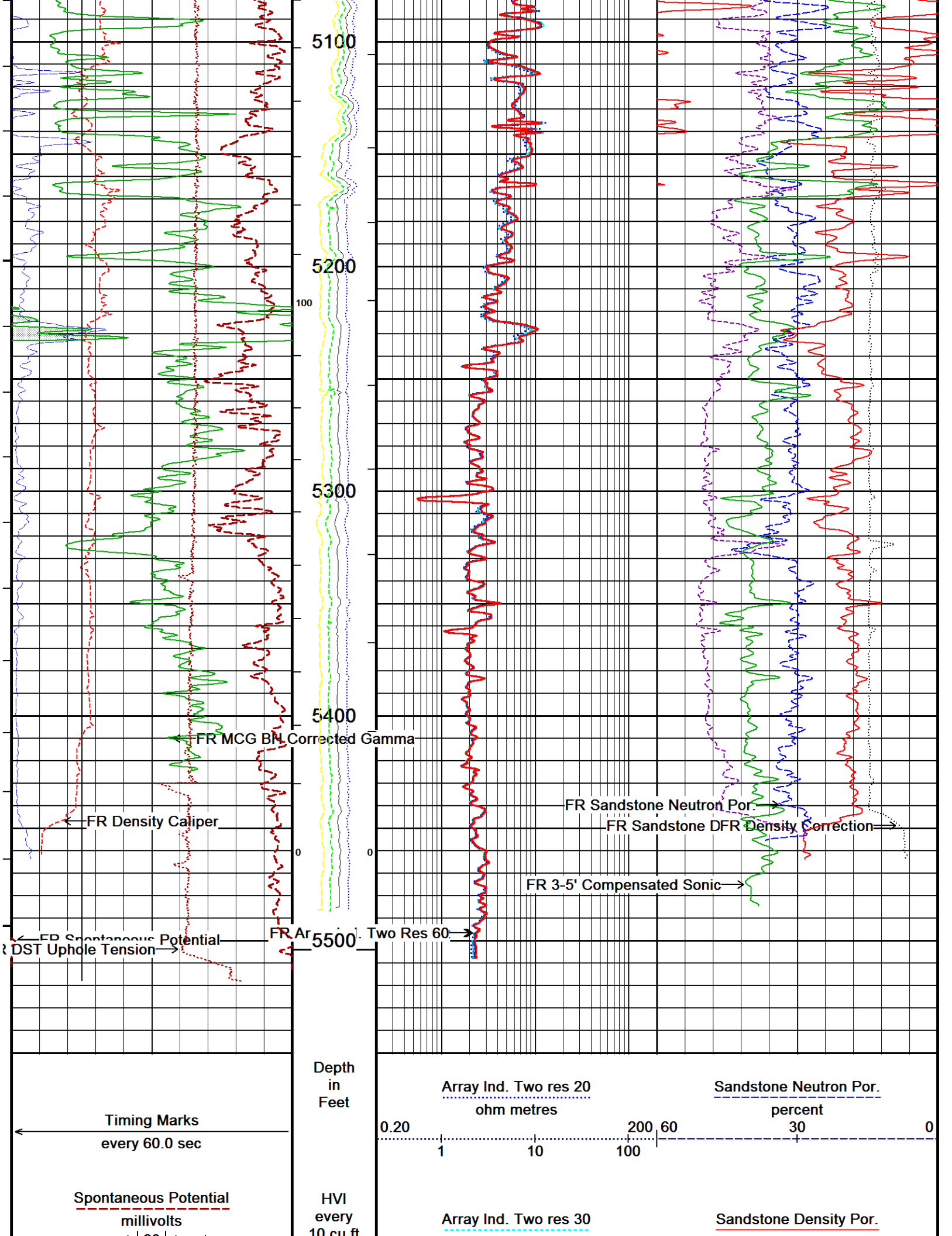

Apparent Water Res.
DST Uphole Tension
Bit Size
Density Caliper
Spontaneous Potential
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
MCG BH Corrected Gamma
3-5' Compensated Sonic
Sandstone Density Por.
PE
Density Correction
Sandstone Neutron Por.
1000
1500
2400
2500
1400
2600
900
2700
1300
2800

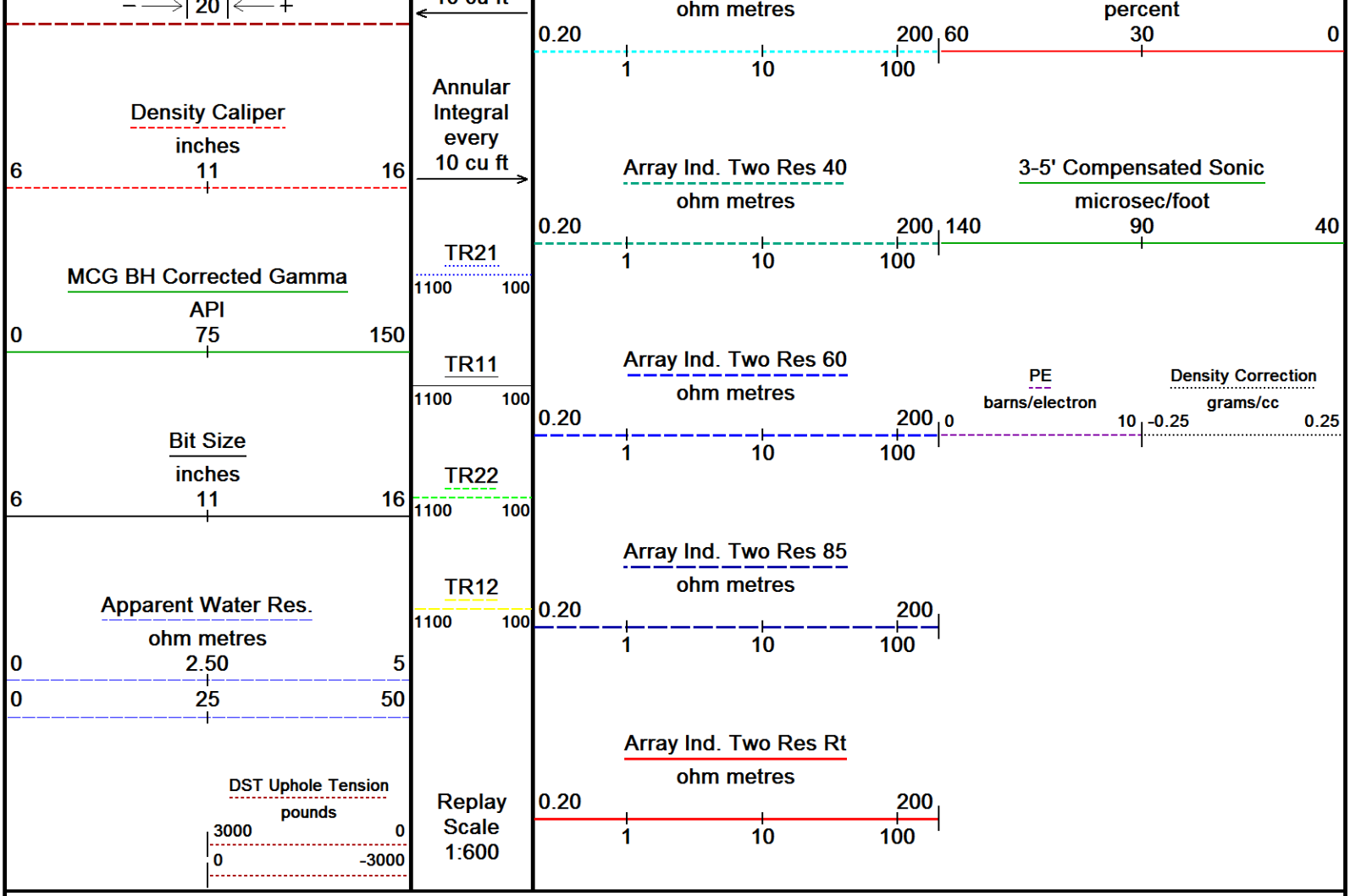

2900
3000
3100
3200
3300
3400
800
700
1200
1100
1000
Apparent Water Res.
DST Uphole Tension
Bit Size
3-5' Compensated Sonic
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60


Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
MCG BH Corrected Gamma
Density Caliper
Spontaneous Potential
Sandstone Density Por.
PE
Density Correction
Sandstone Neutron Por.
3500
600
900
3600
3700
800
3800
500
3900


700
4000
4100
4200
400
600
4300
4400
500
4500
←Apparent Water Res.
DST Uphole Tension→
←Bit Size
←MCG BH Corrected Gamma
←Density Caliper
←Spontaneous Potential
Array Ind. Two Res Rt→
Array Ind. Two Res 85→
Array Ind. Two Res 60→
Array Ind. Two Res 40→
Array Ind. Two res 30→
Array Ind. Two res 20→
3-5' Compensated Sonic→
Sandstone Density Por→
PE→
Density Correction→
Sandstone Neutron Por→


4600
4700
4800
4900
5000
400
300
200
300
200
100


5100
5200
5300
5400
5500
100
0
0
FR MCG BH Corrected Gamma
FR Density Caliper
FR Sandstone Neutron Por.
FR Sandstone DFR Density Correction
FR 3-5' Compensated Sonic
FR Spontaneous Potential
DST Uphole Tension
Depth
in
Feet
Timing Marks
every 60.0 sec
Array Ind. Two res 20
ohm metres
0.20
1
10
100
200
60
Sandstone Neutron Por.
percent
30
0
Spontaneous Potential
millivolts
HVI
every
10 cu ft
Array Ind. Two res 30
Sandstone Density Por.

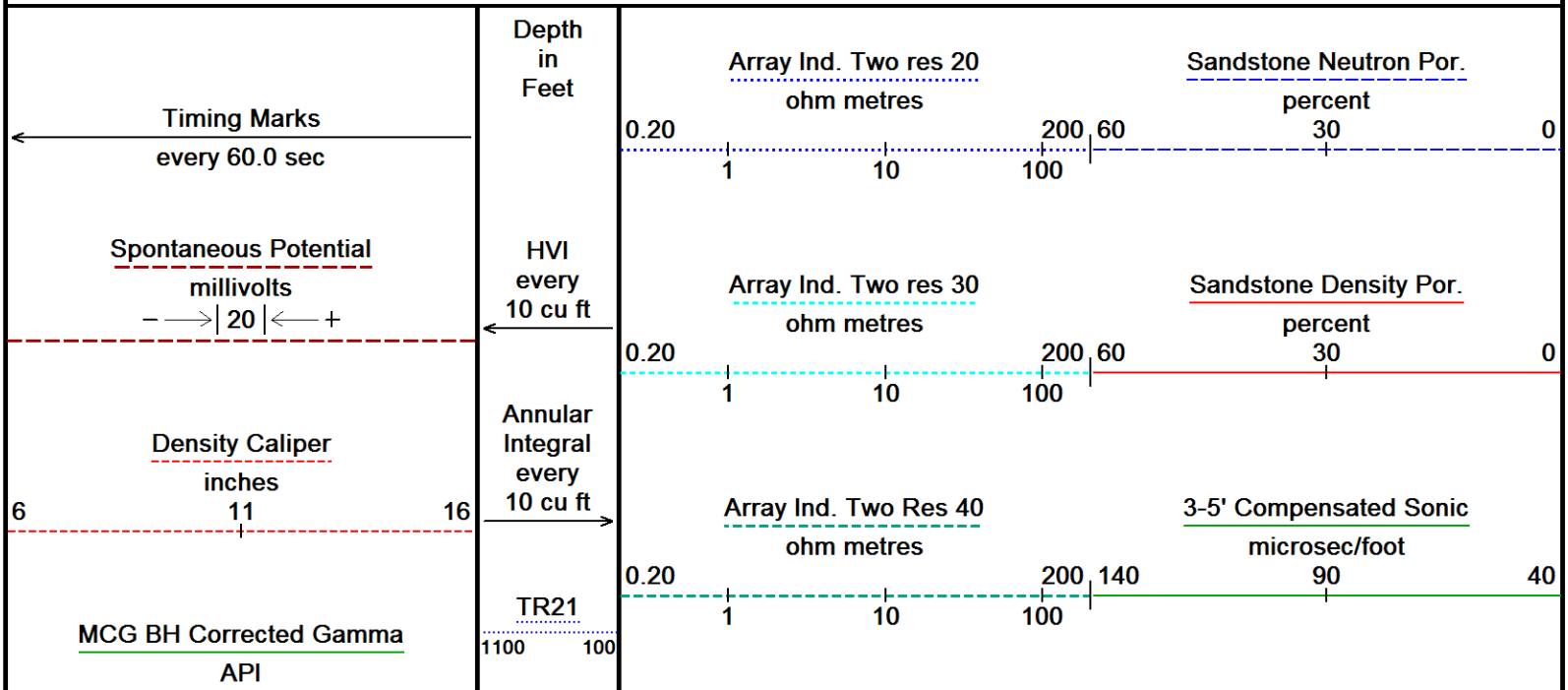


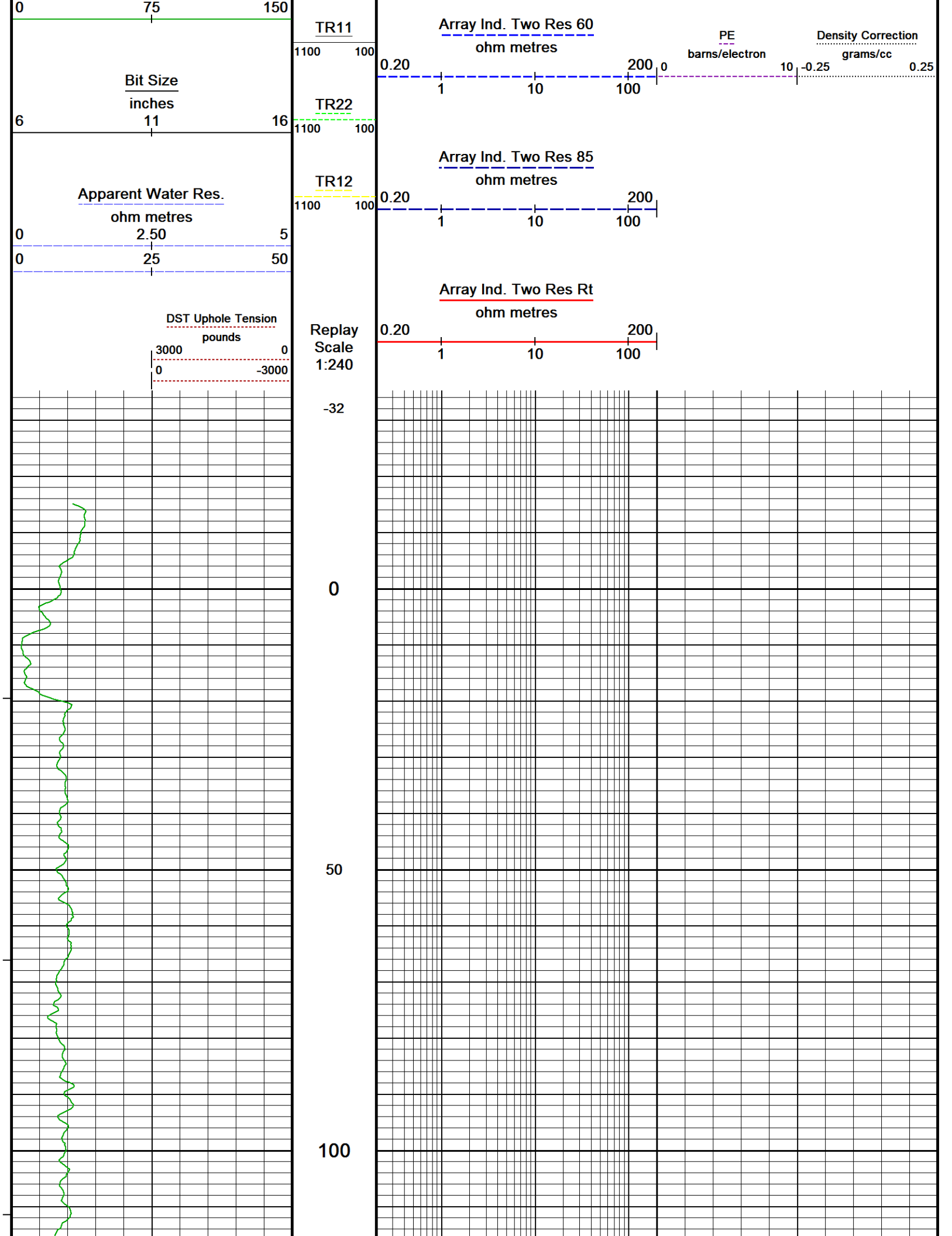
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 18-OCT-2022 06:46
Filename: C:\LOGS\SNAKE RIVER\IRVIN #1-19\MP.dta
Recorded on 18-OCT-2022 03:28
System Versions: Logged with 22.11.1632 Plotted with 22.11.1632

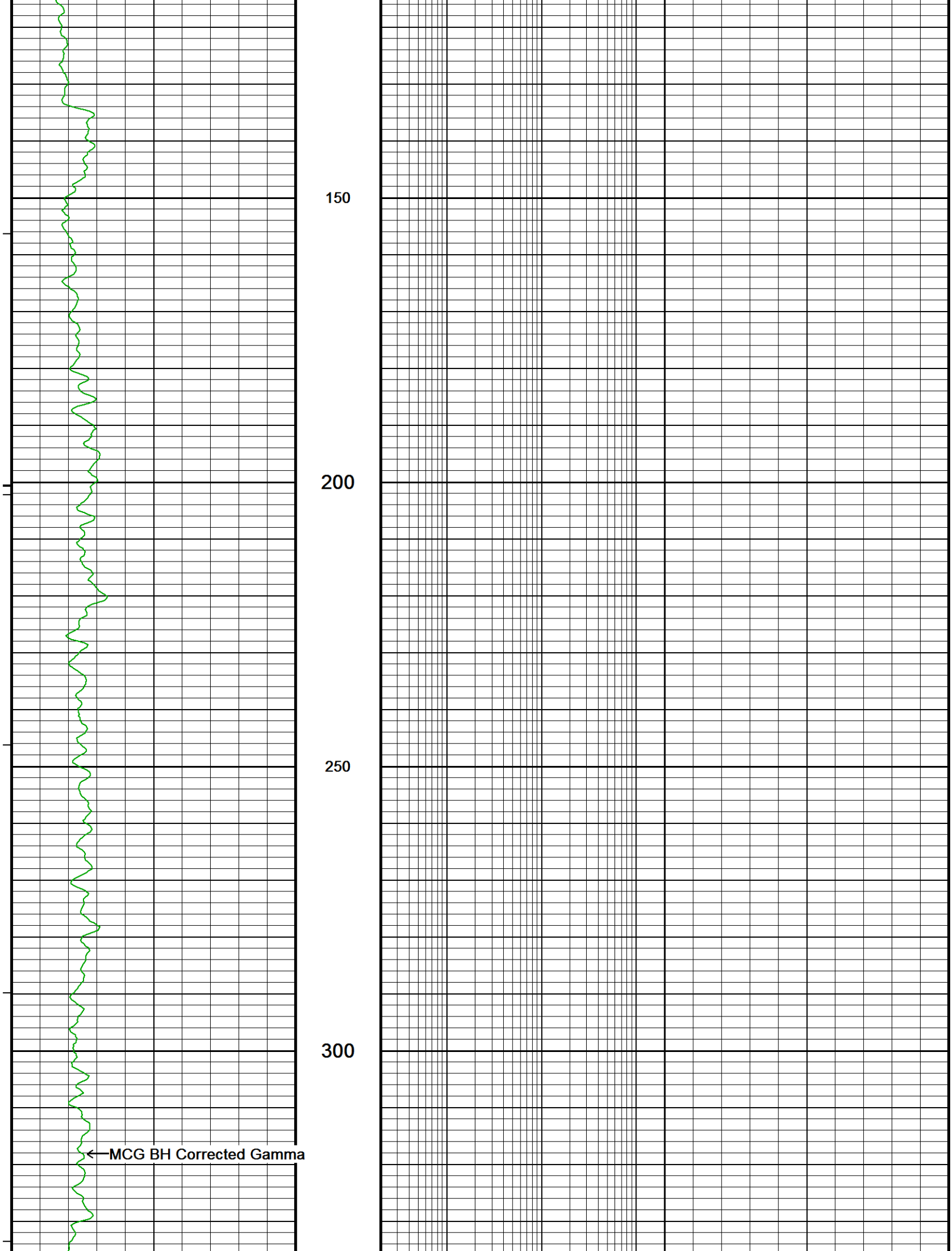
2 INCH MAIN PASS

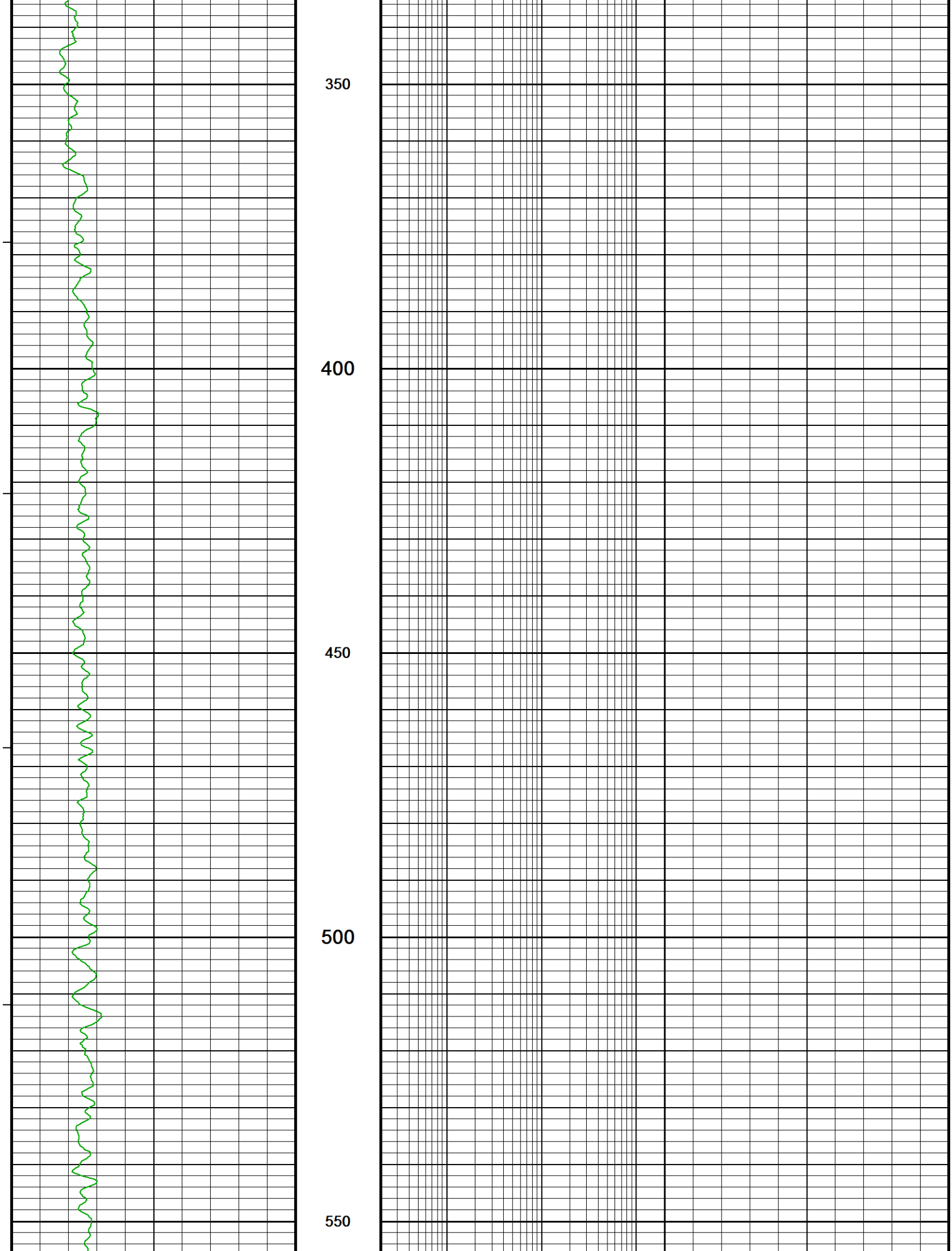
5 INCH MAIN PASS

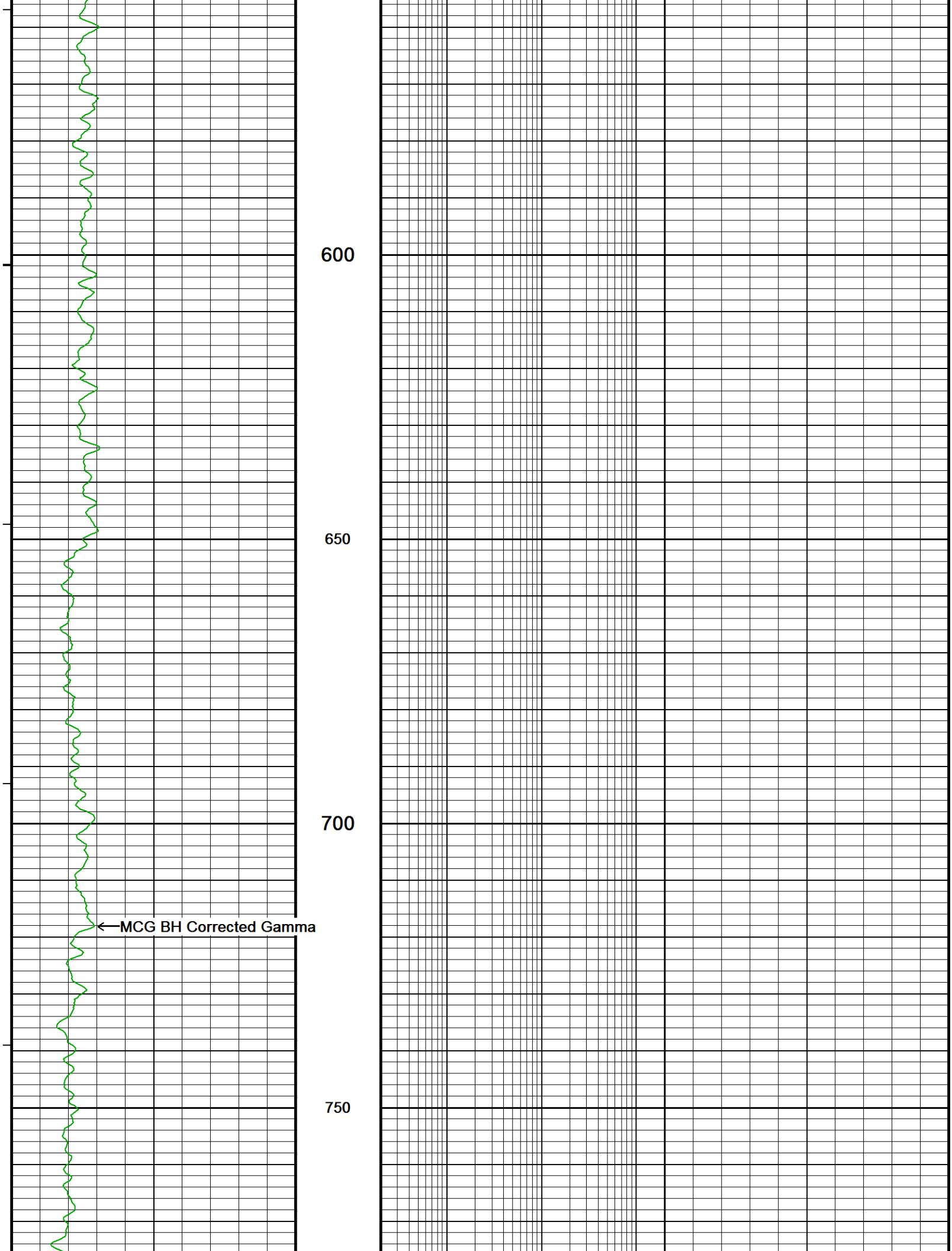
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 18-OCT-2022 06:46
Filename: C:\LOGS\SNAKE RIVER\IRVIN #1-19\MP.dta
Recorded on 18-OCT-2022 03:28
System Versions: Logged with 22.11.1632 Plotted with 22.11.1632

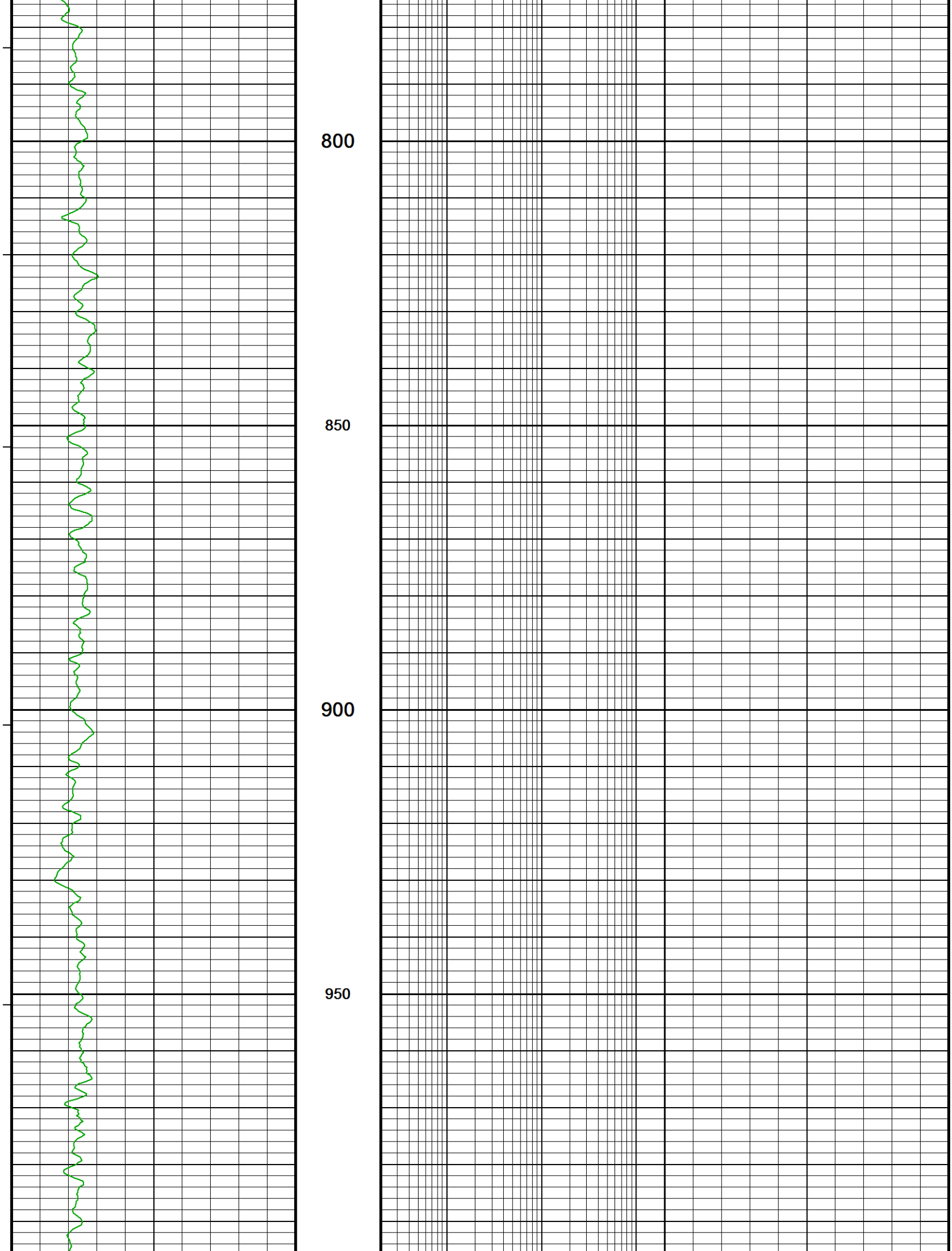


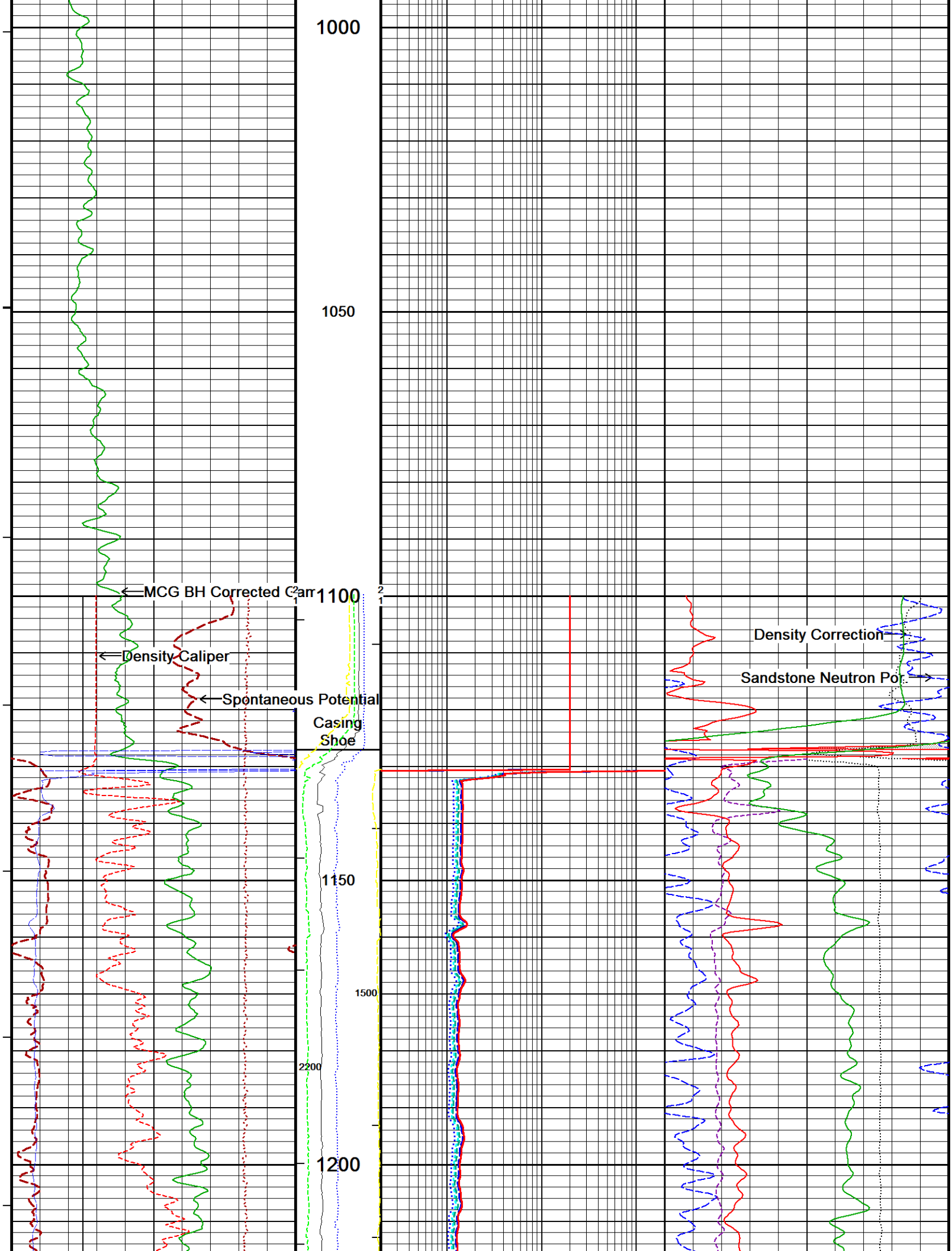

0
75
150
TR11
1100
100
Array Ind. Two Res 60
ohm metres
0.20
200
1
10
100
PE
barns/electron
0
10
Density Correction
grams/cc
-0.25
0.25
Bit Size
inches
6
11
16
TR22
1100
100
Array Ind. Two Res 85
ohm metres
TR12
1100
100
0.20
200
1
10
100
Apparent Water Res.
ohm metres
0
2.50
5
0
25
50
Array Ind. Two Res Rt
ohm metres
0.20
200
1
10
100
DST Uphole Tension
pounds
3000
0
0
-3000
Replay
Scale
1:240
-32
0
50
100

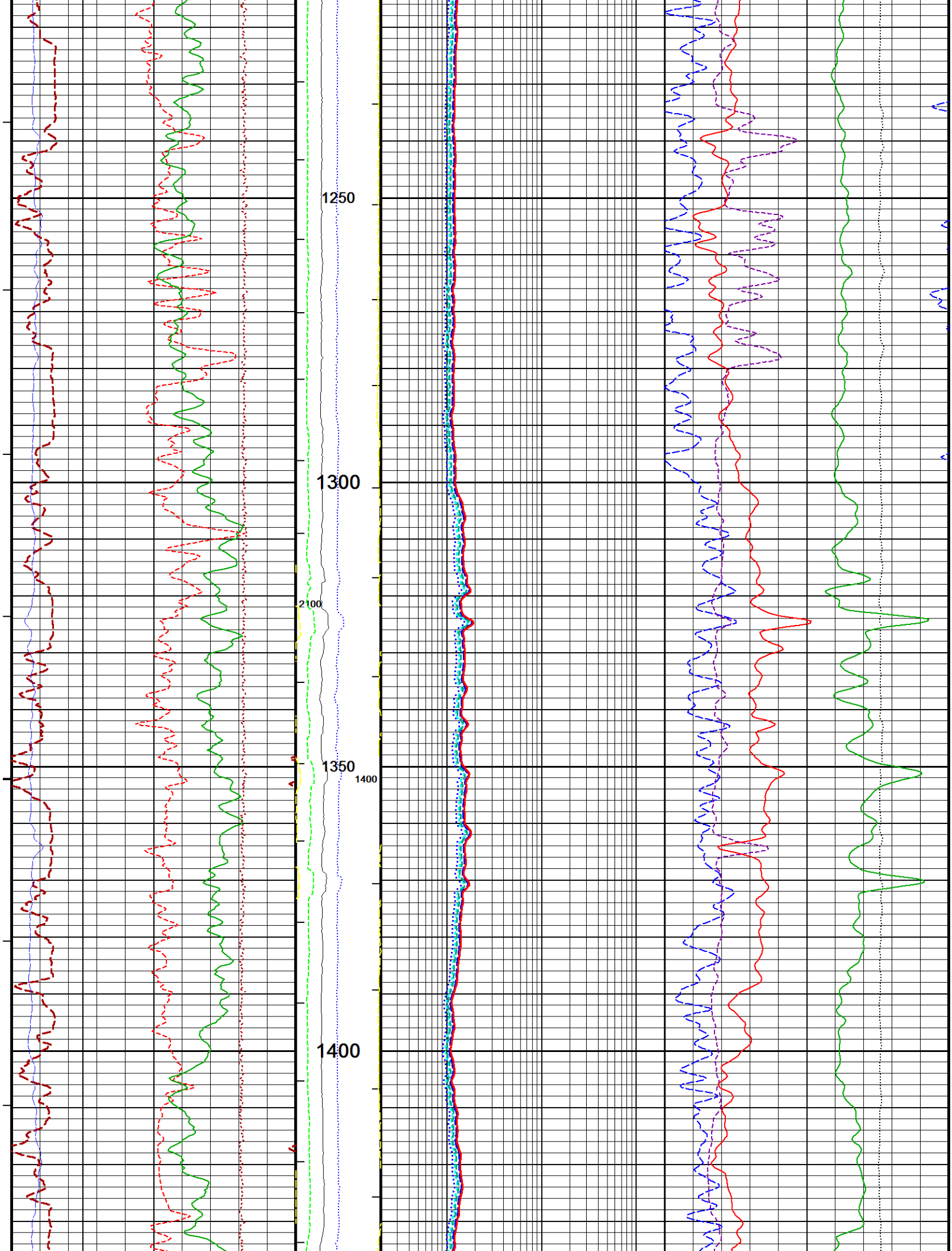

150
200
250
300
←MCG BH Corrected Gamma

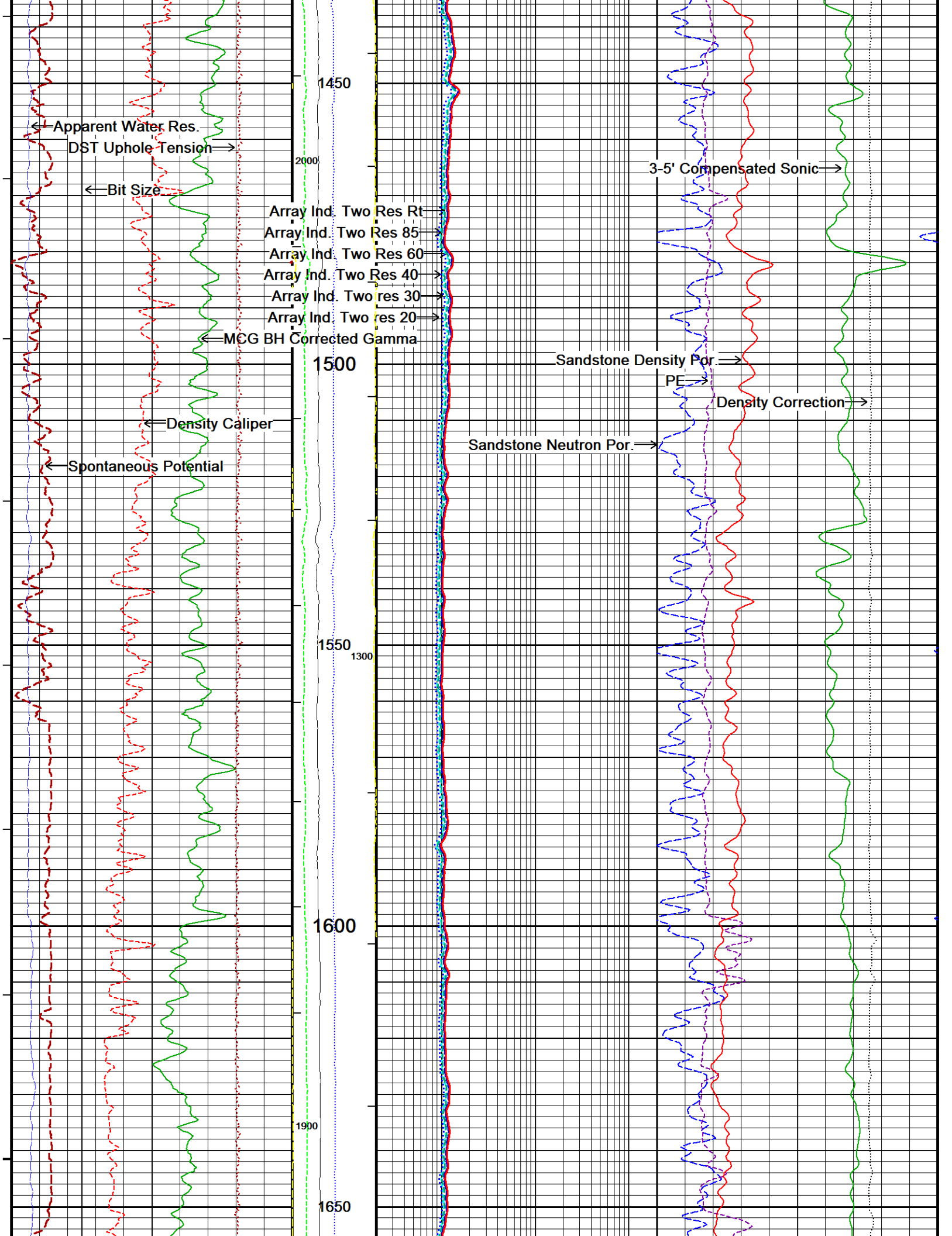

350
400
450
500
550

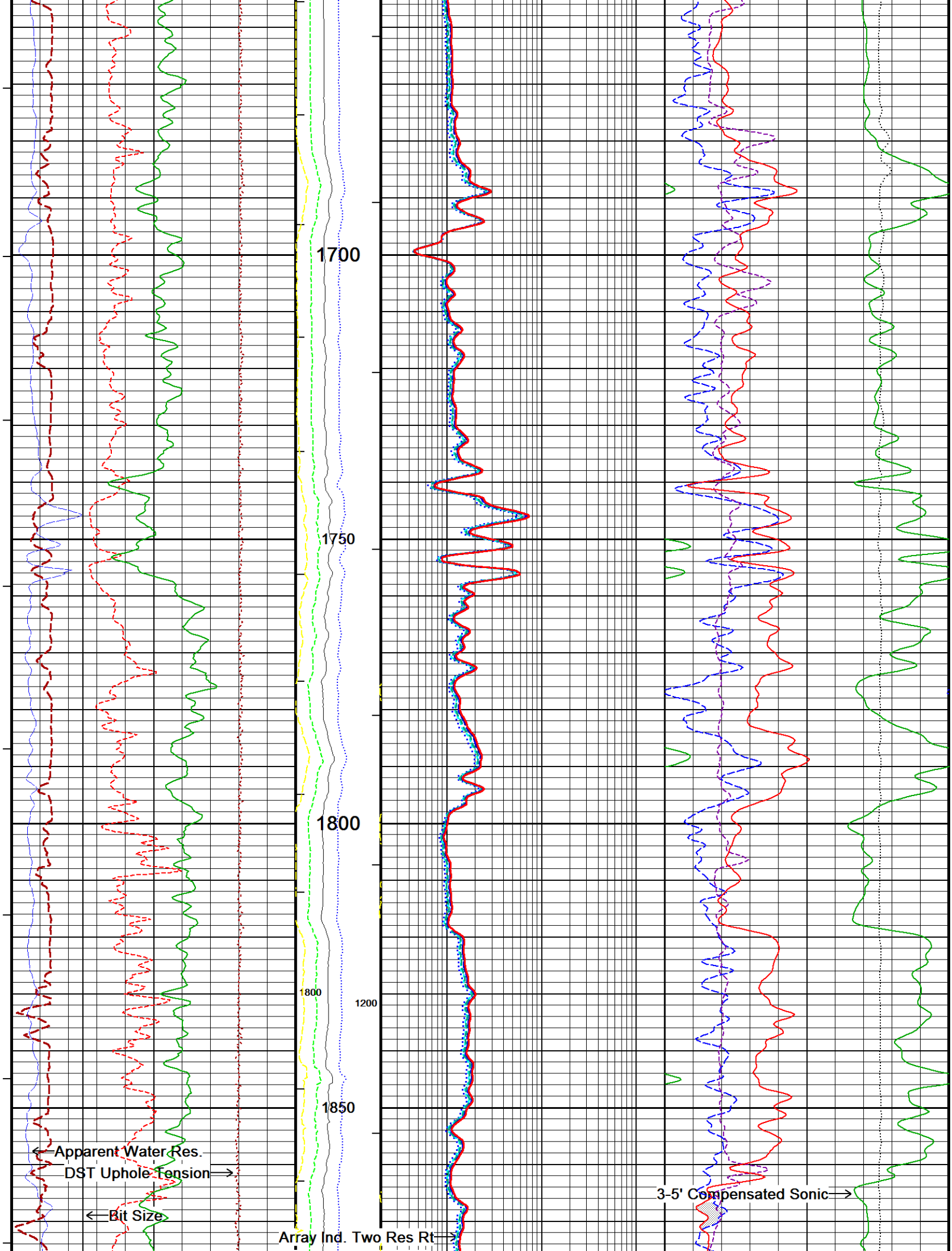

600
650
700
750
←MCG BH Corrected Gamma

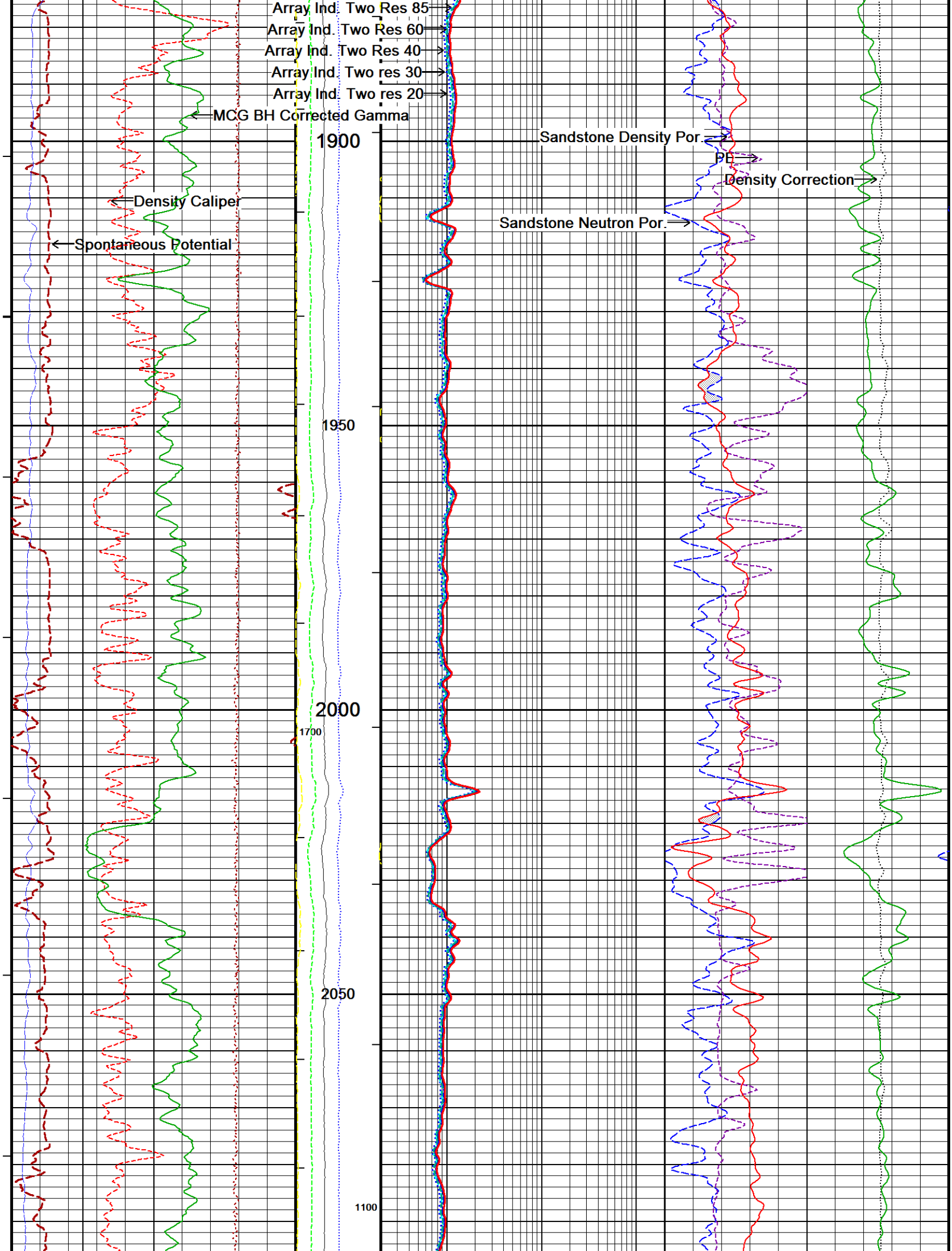

800
850
900
950

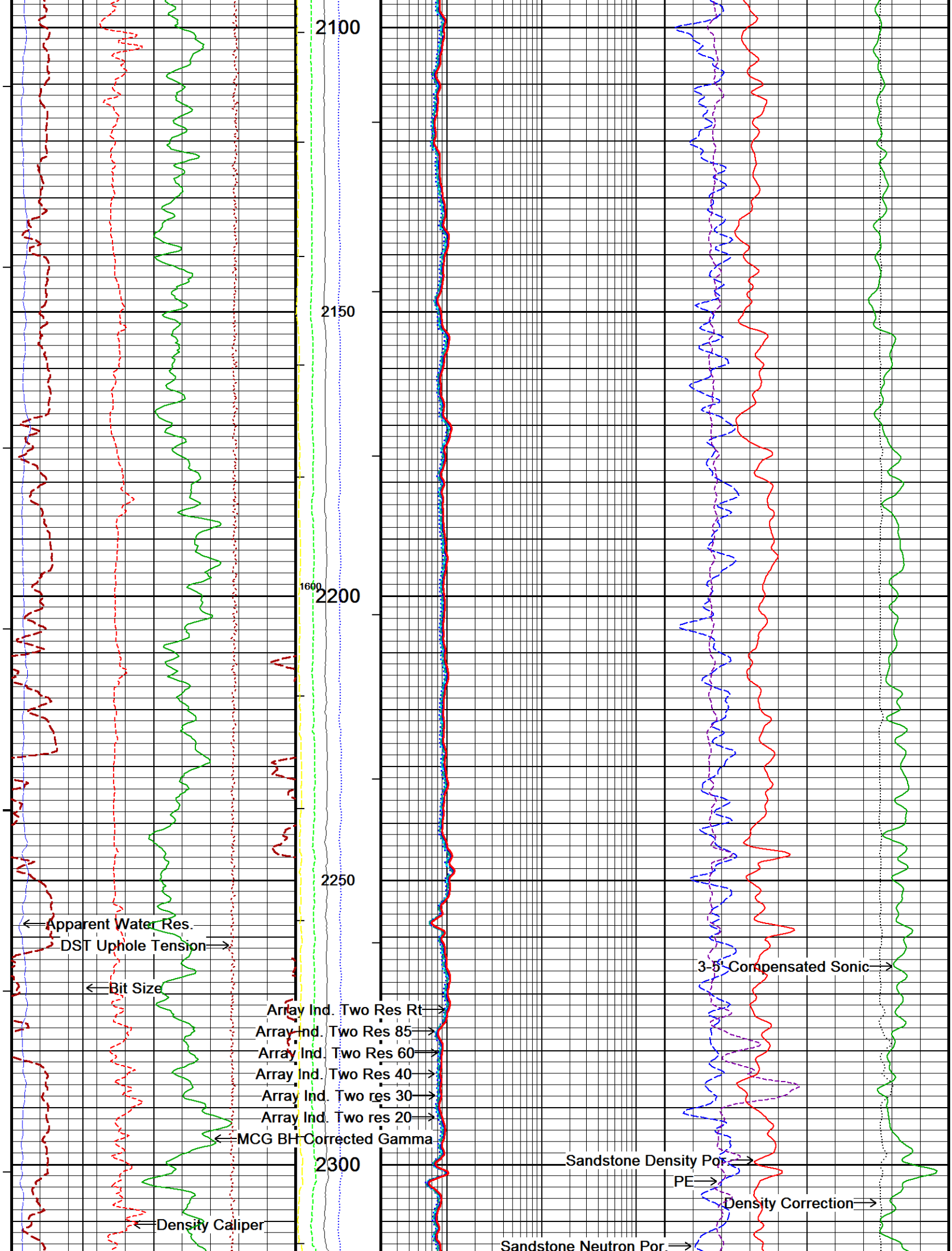

1000
1050
1100
1150
1200
1500
2200
MCG BH Corrected Caliper
Density Caliper
Spontaneous Potential
Casing Shoe
Density Correction
Sandstone Neutron Por

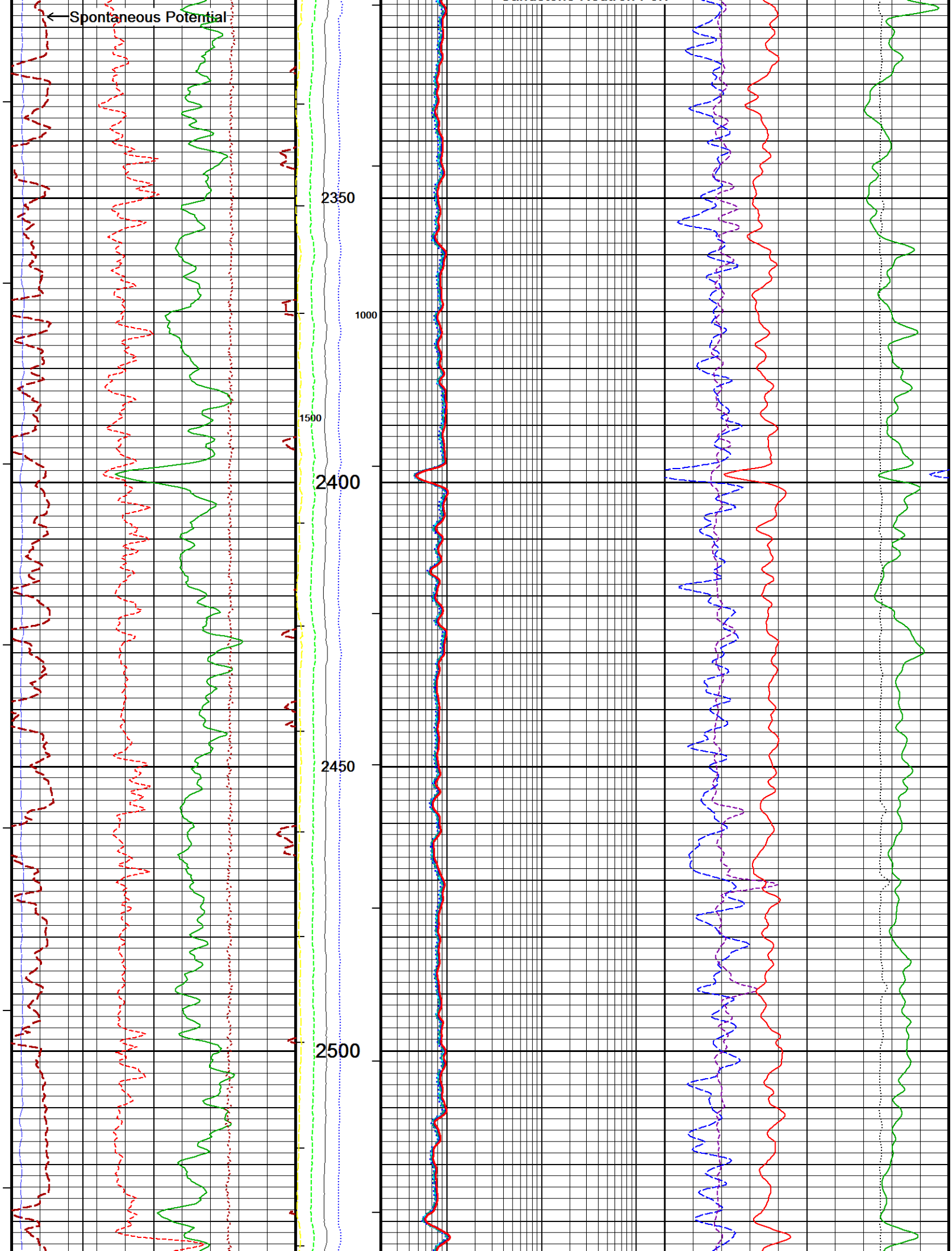

1250
1300
2100
1350
1400
1400

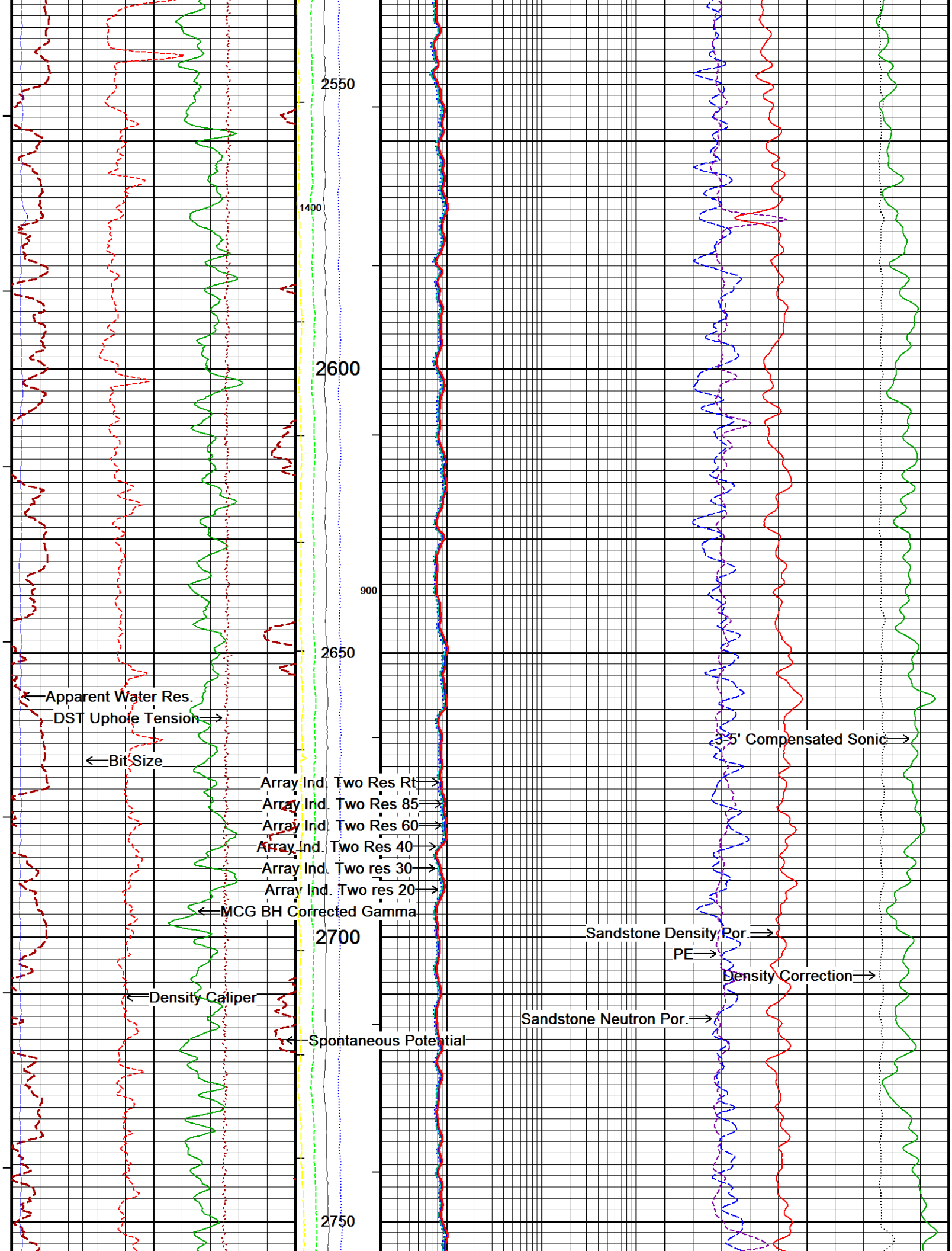

1450
2000
1500
1550
1300
1600
1900
1650
Apparent Water Res.
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
MCG BH Corrected Gamma
Density Caliper
Spontaneous Potential
3-5' Compensated Sonic
Sandstone Density Por.
PE
Density Correction
Sandstone Neutron Por.

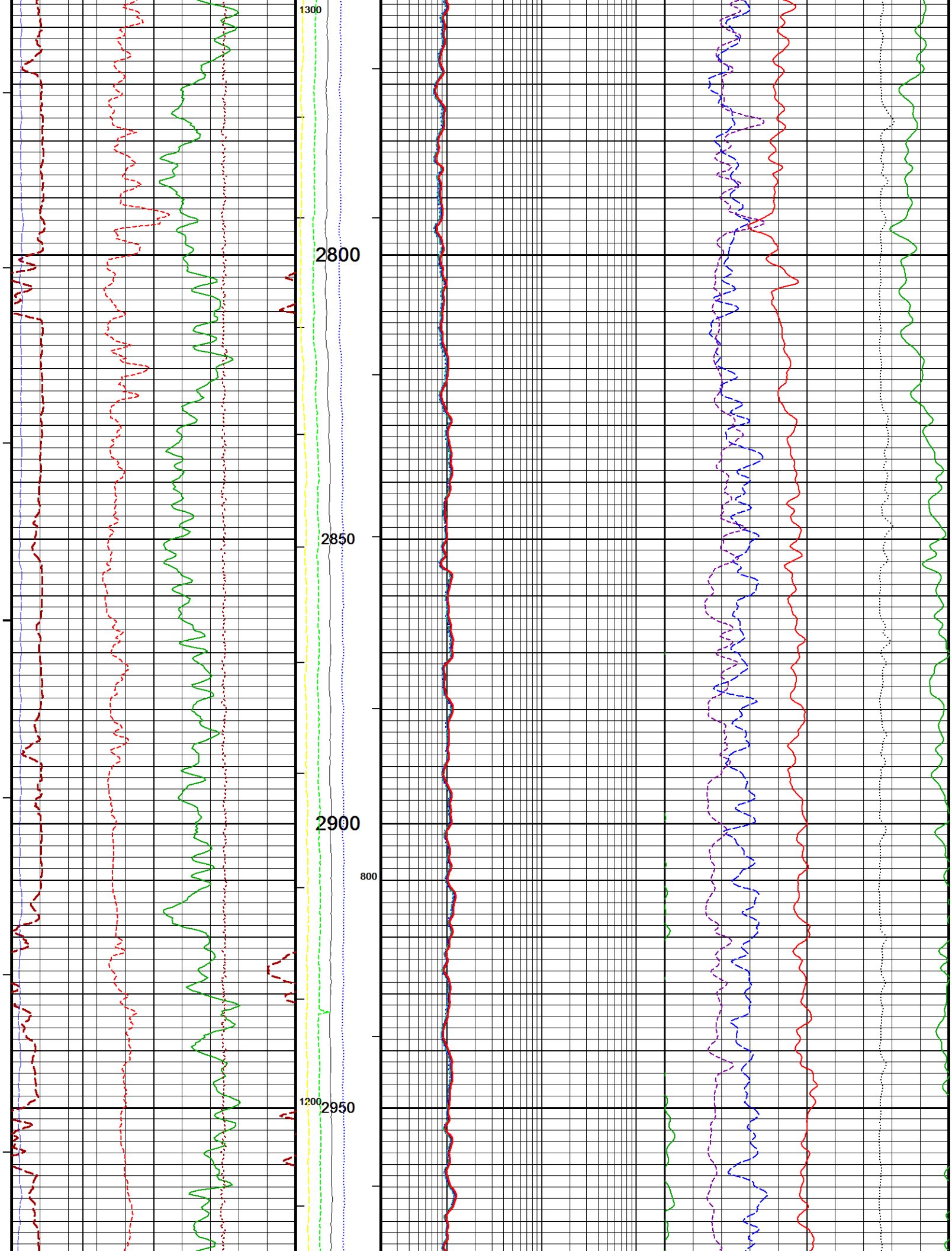

1700
1750
1800
1800
1200
1850
←Apparent Water Res.
DST Uphole Tension→
←Bit Size
Array Ind. Two Res Rt→
3-5' Compensated Sonic→

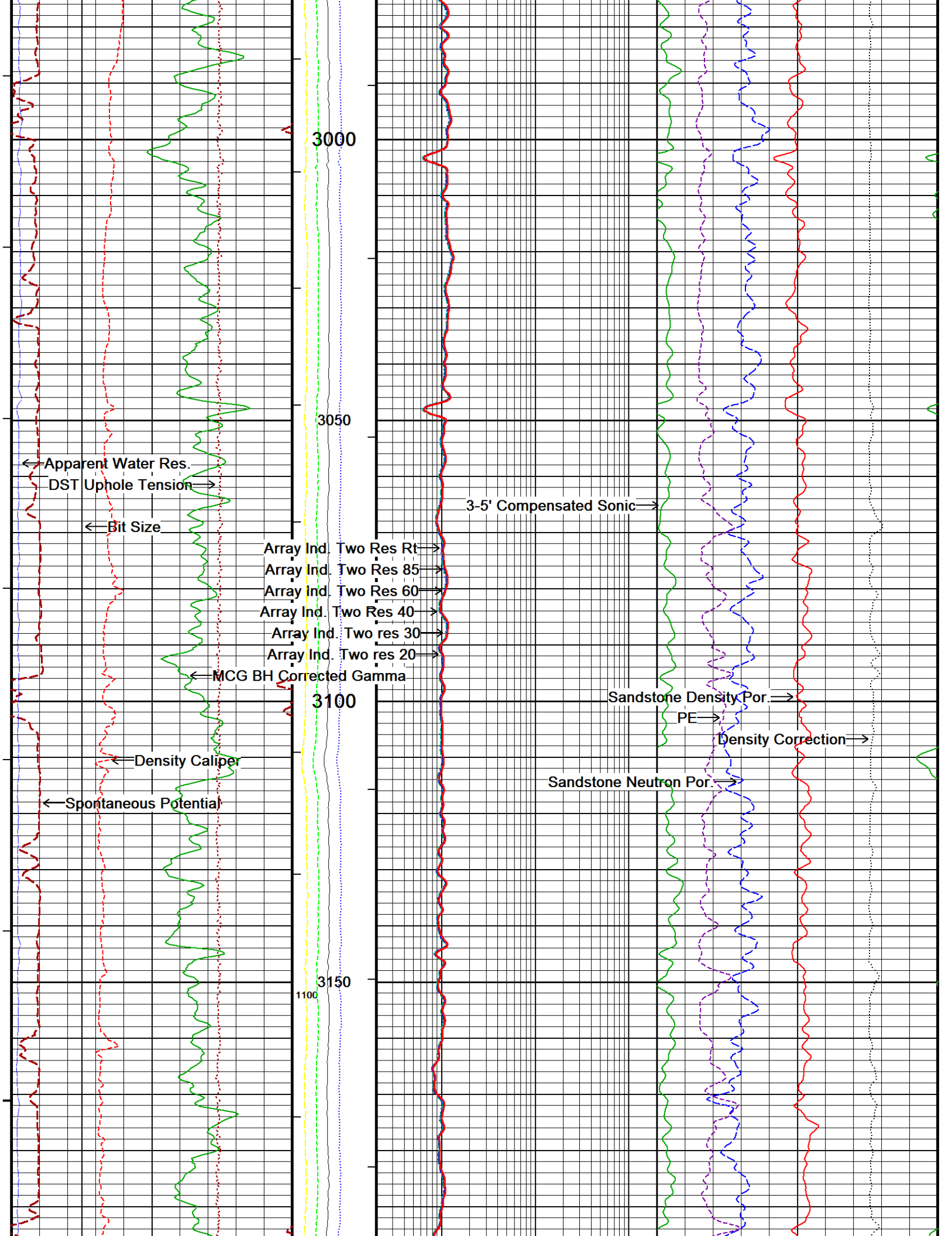

Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
MCG BH Corrected Gamma
Density Caliper
Spontaneous Potential
Sandstone Density Por.
PE
Density Correction
Sandstone Neutron Por.
1900
1950
2000
1700
2050
1100

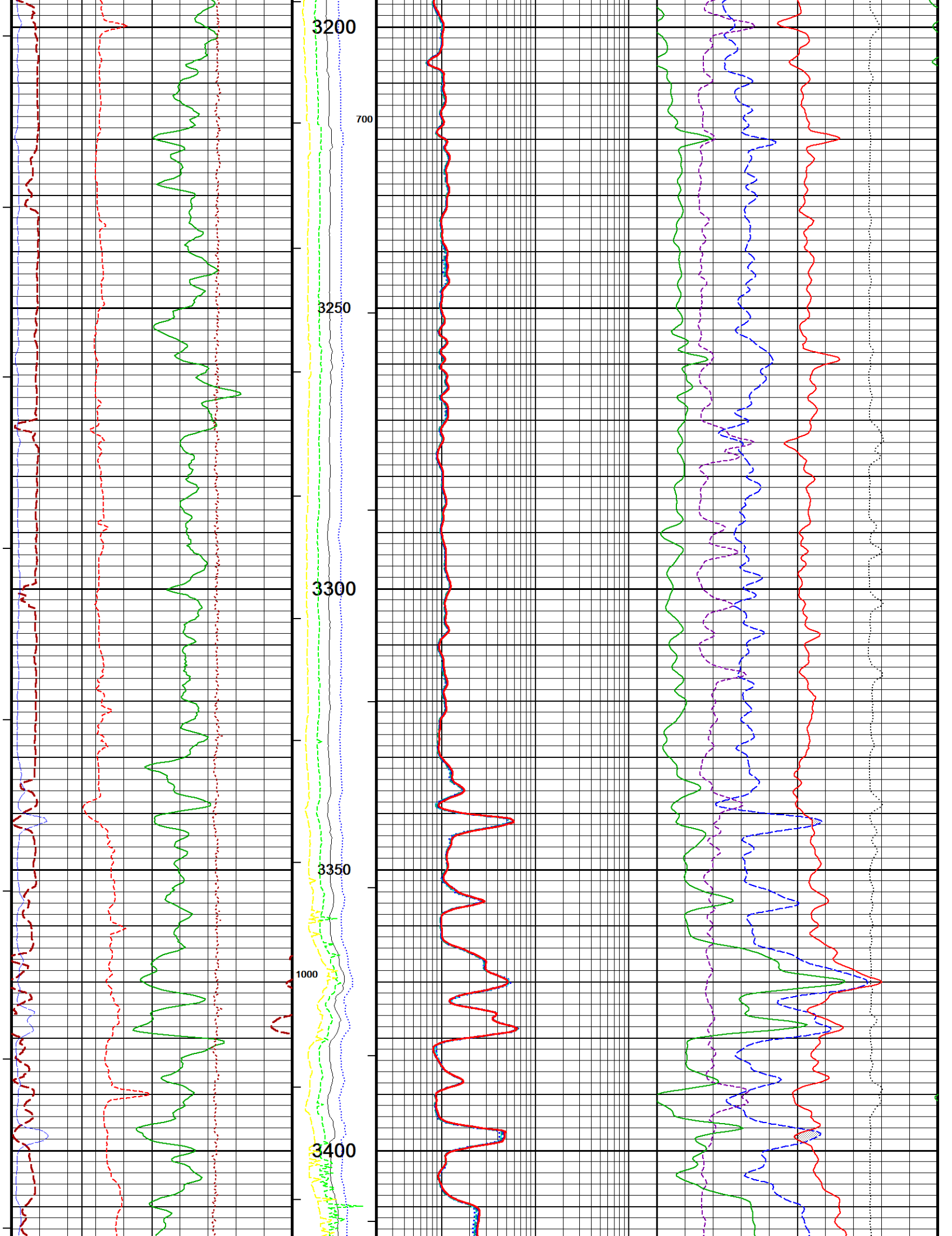

2100
2150
1600
2200
2250
2300
Apparent Water Res.
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
MCG BH Corrected Gamma
Density Caliper
3-5' Compensated Sonic
Sandstone Density Por
PE
Density Correction
Sandstone Neutron Por

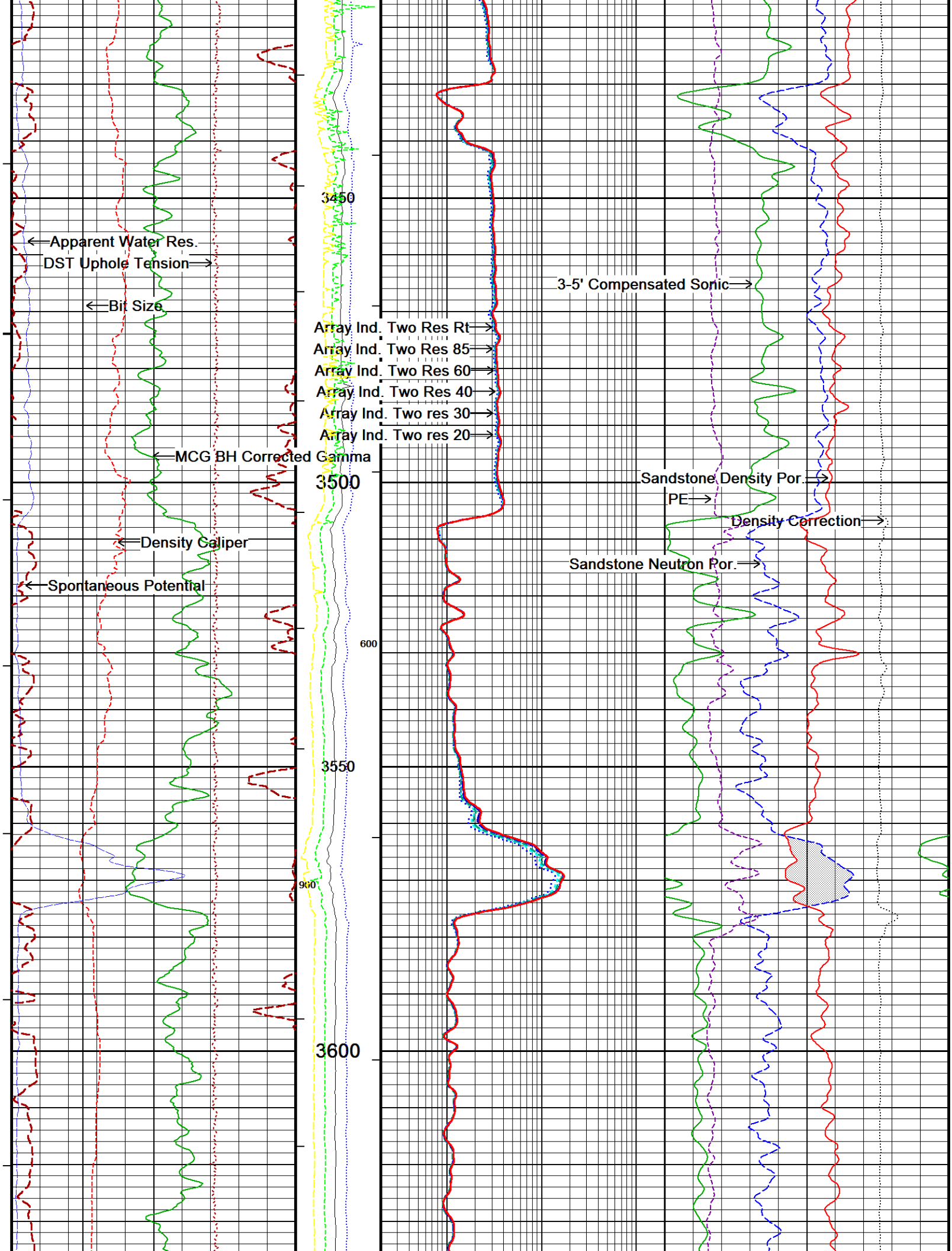

←Spontaneous Potential
2350
1000
1500
2400
2450
2500

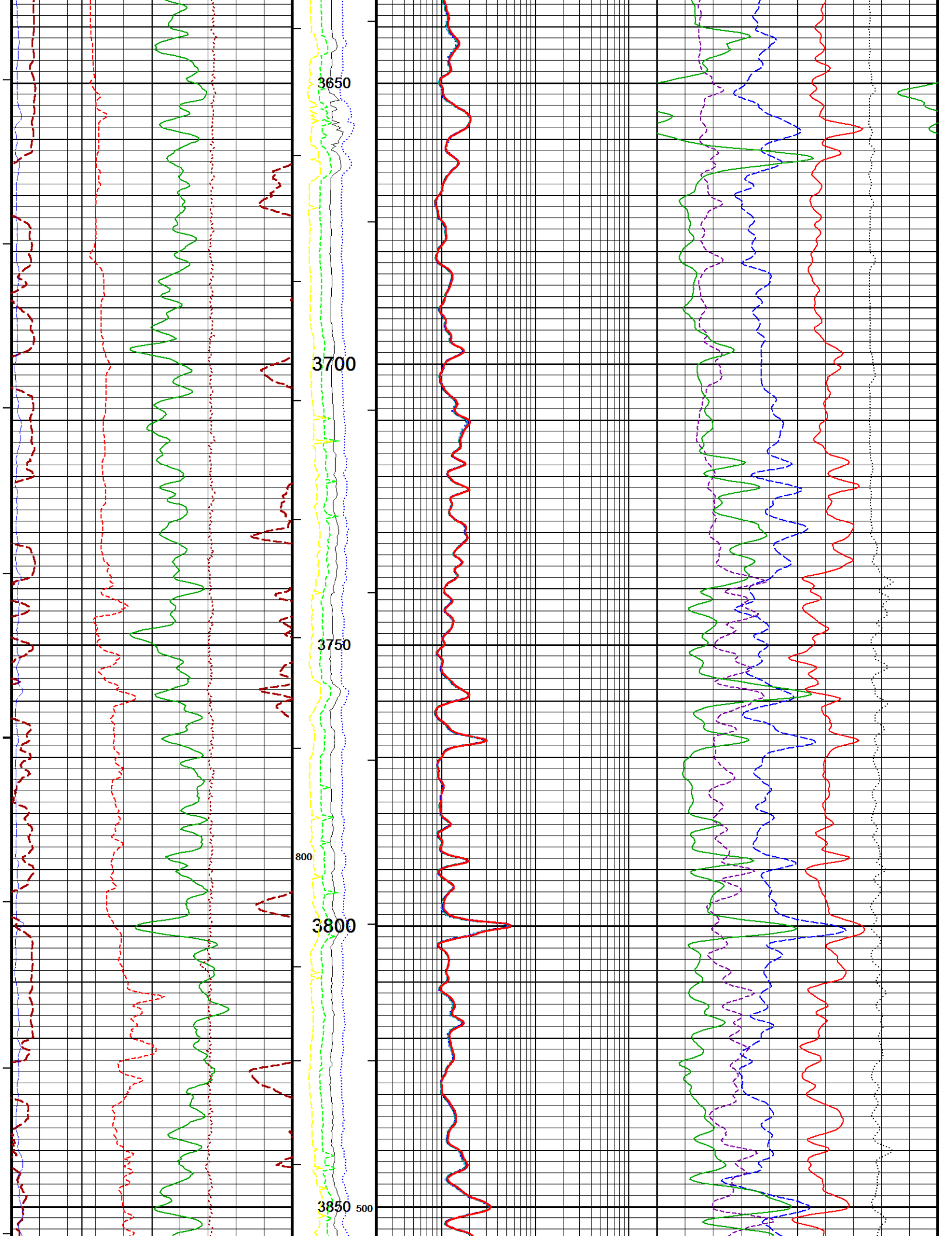

2550
1400
2600
900
2650
←Apparent Water Res.
DST Uphole Tension→
←Bit Size
Array Ind. Two Res Rt→
Array Ind. Two Res 85→
Array Ind. Two Res 60→
Array Ind. Two Res 40→
Array Ind. Two res 30→
Array Ind. Two res 20→
←MCG BH Corrected Gamma
2700
←Density Caliper
←Spontaneous Potential
3-5' Compensated Sonic→
Sandstone Density Por.→
PE→
Density Correction→
Sandstone Neutron Por.→
2750

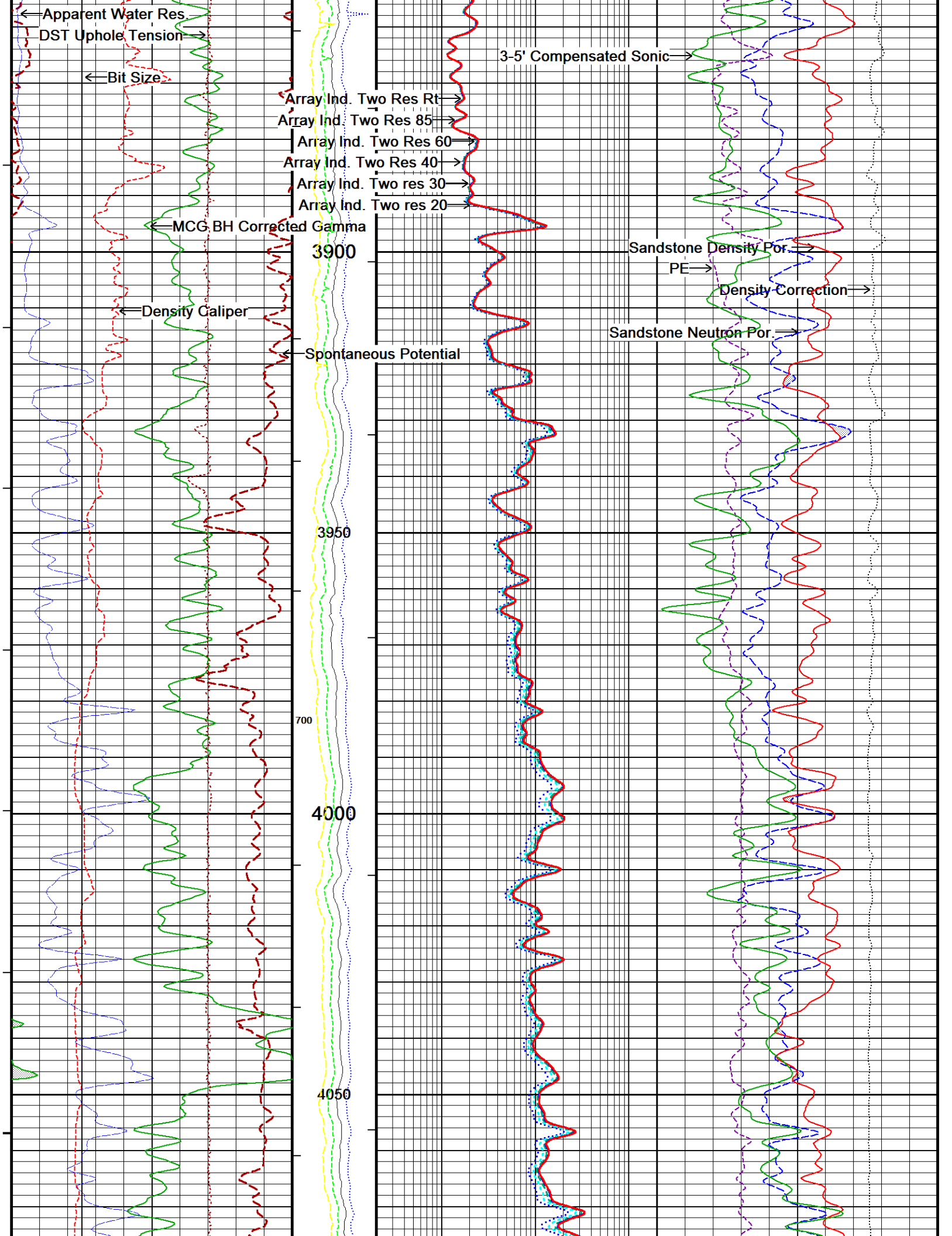

1300
2800
2850
2900
800
1200
2950

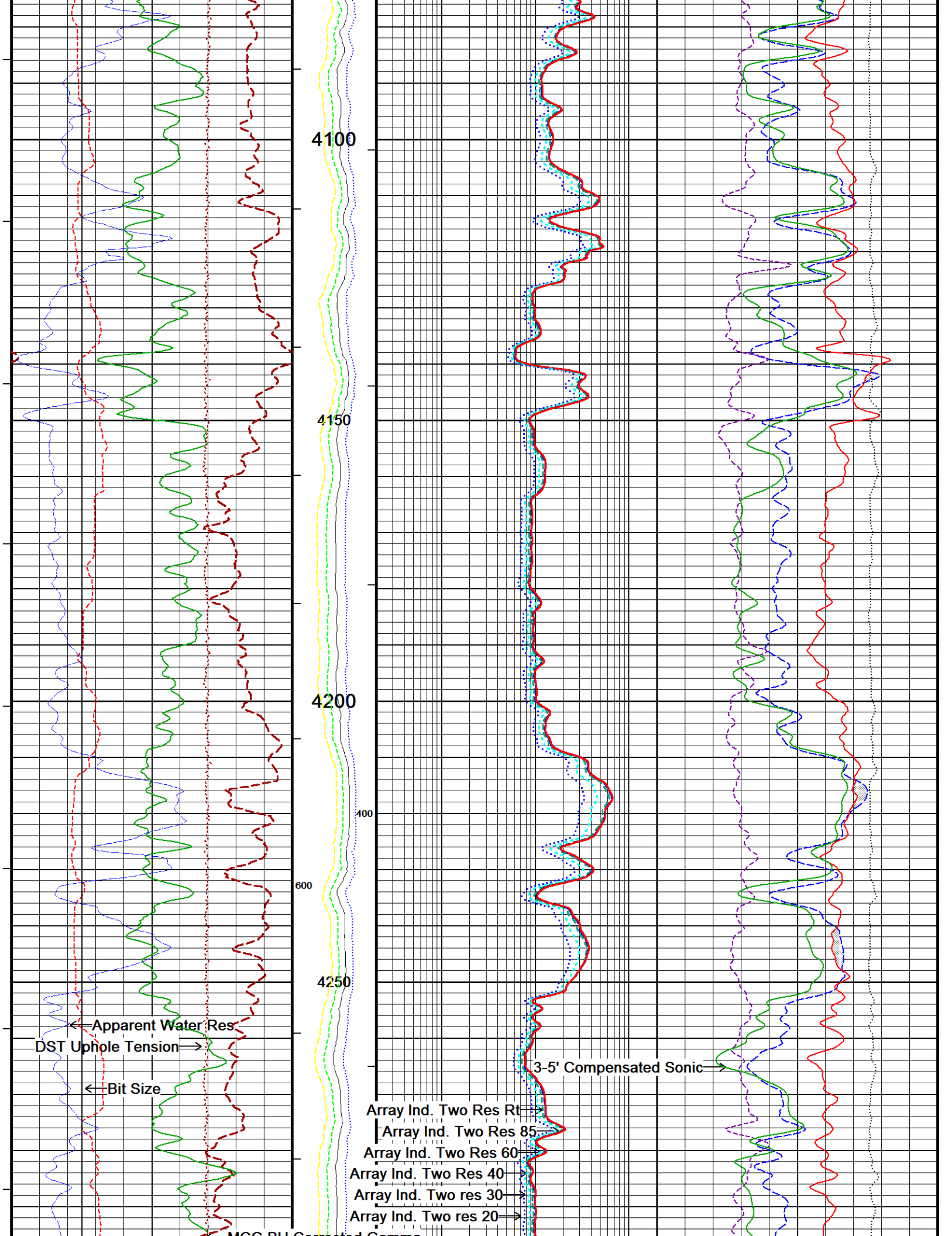

3000
3050
3100
3150
1100
Apparent Water Res.
DST Uphole Tension
Bit Size
Density Caliper
Spontaneous Potential
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
MCG BH Corrected Gamma
3-5' Compensated Sonic
Sandstone Density Por.
PE
Density Correction
Sandstone Neutron Por.

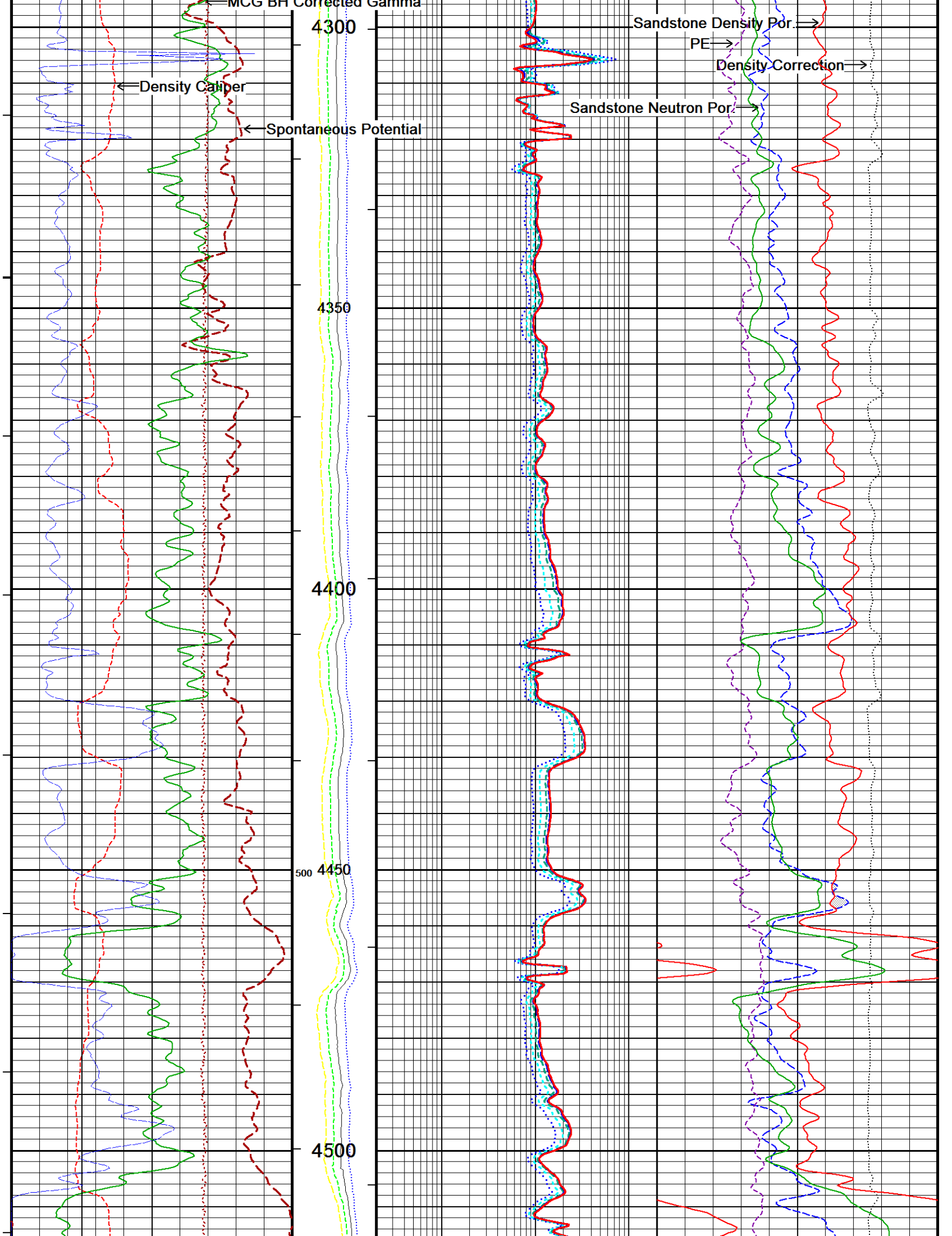

3200
700
3250
3300
3350
1000
3400

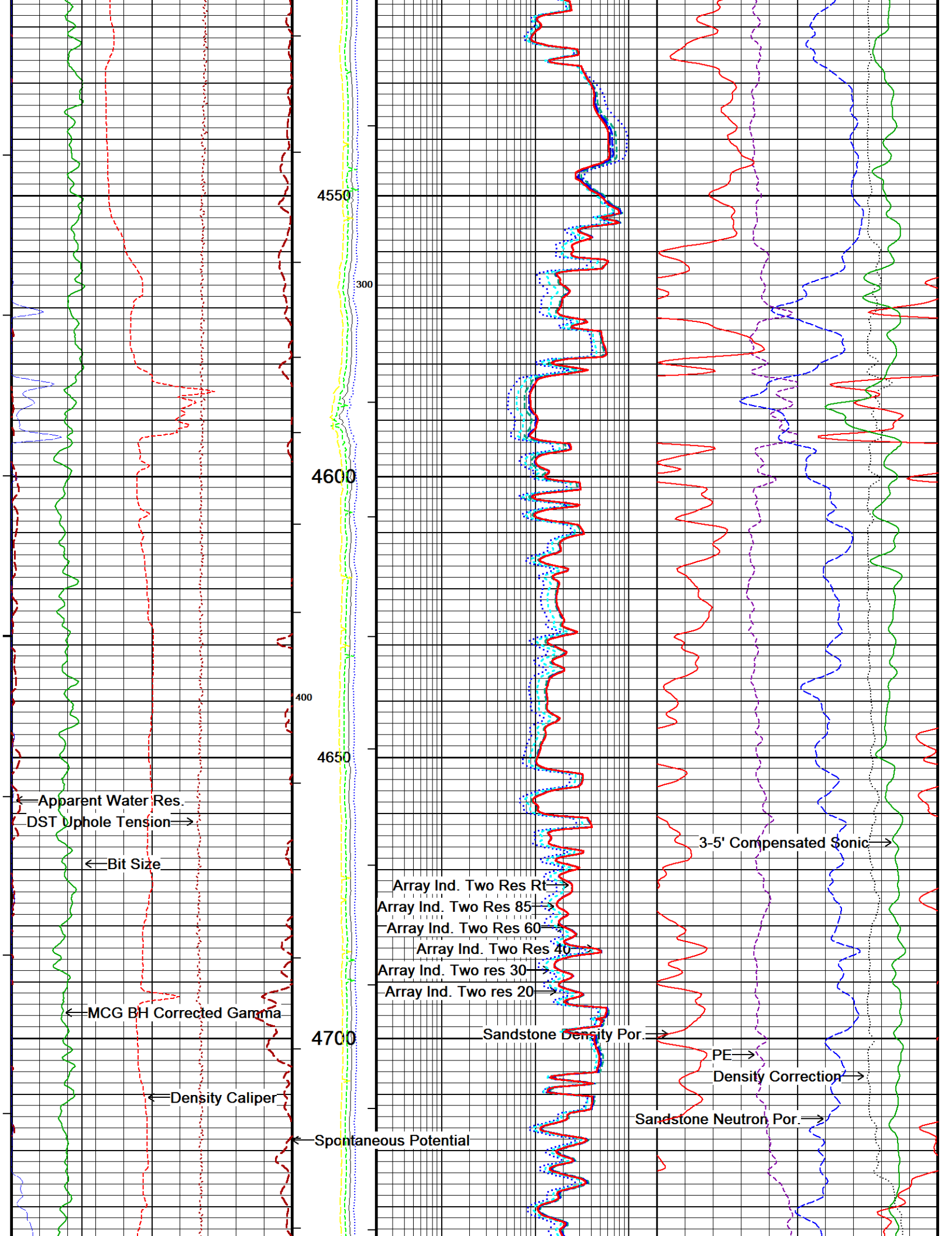

3450
Apparent Water Res.
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
3-5' Compensated Sonic
MCG BH Corrected Gamma
3500
Sandstone Density Por.
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
600
3550
900
3600

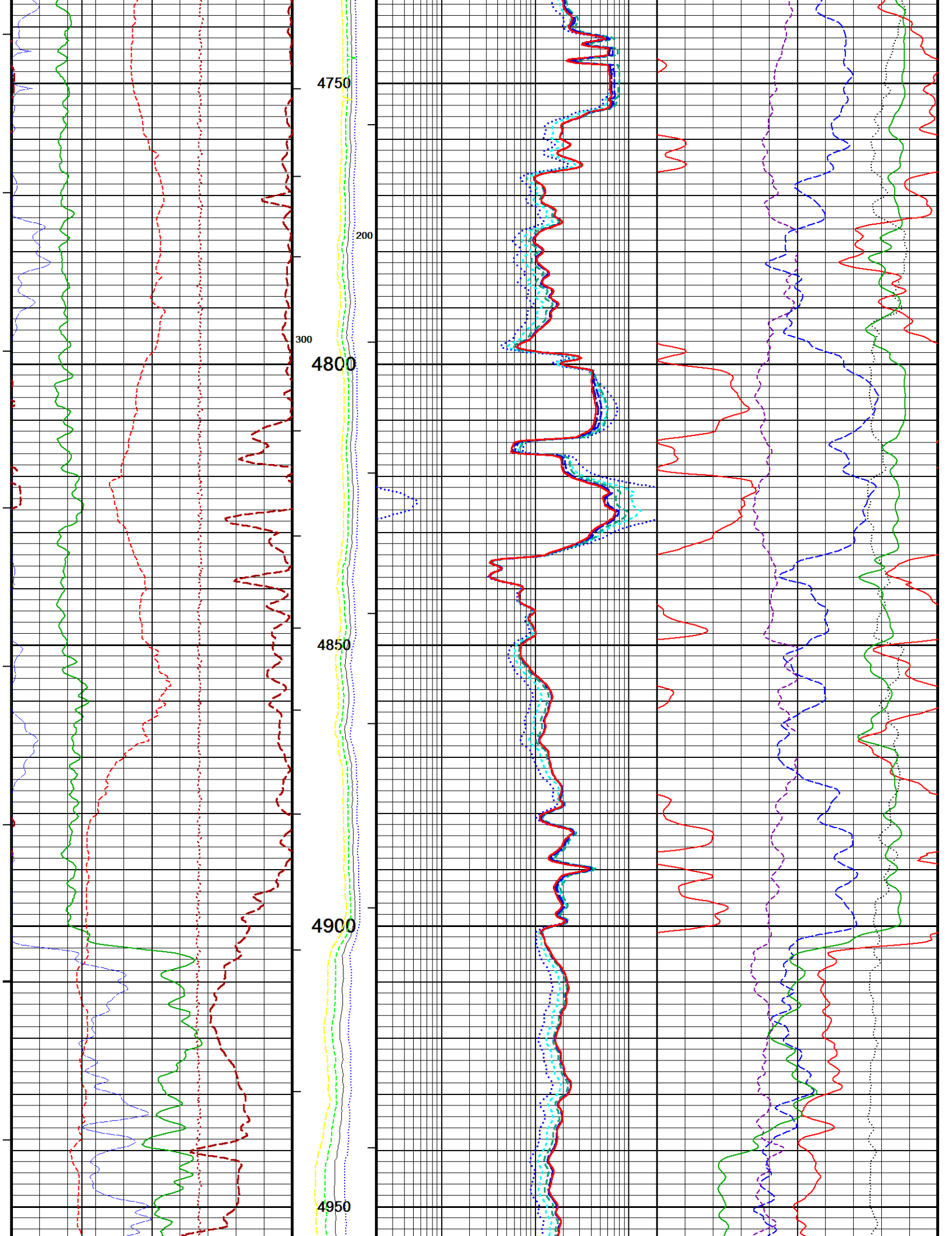

3650
3700
3750
800
3800
3850
500

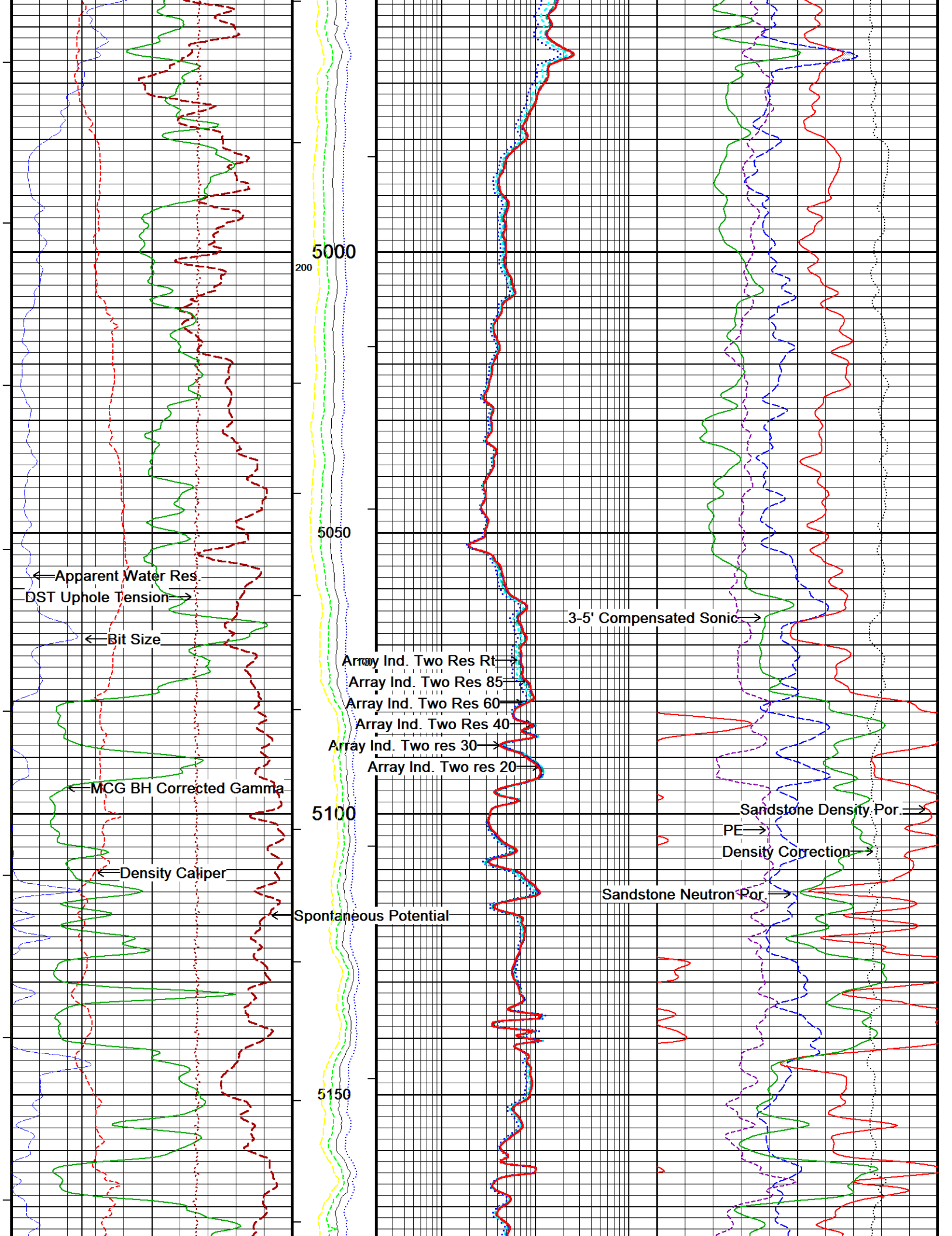

Apparent Water Res
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
3-5' Compensated Sonic
MCG BH Corrected Gamma
3900
Sandstone Density Por
PE
Density Correction
Density Caliper
Sandstone Neutron Por
Spontaneous Potential
3950
700
4000
4050

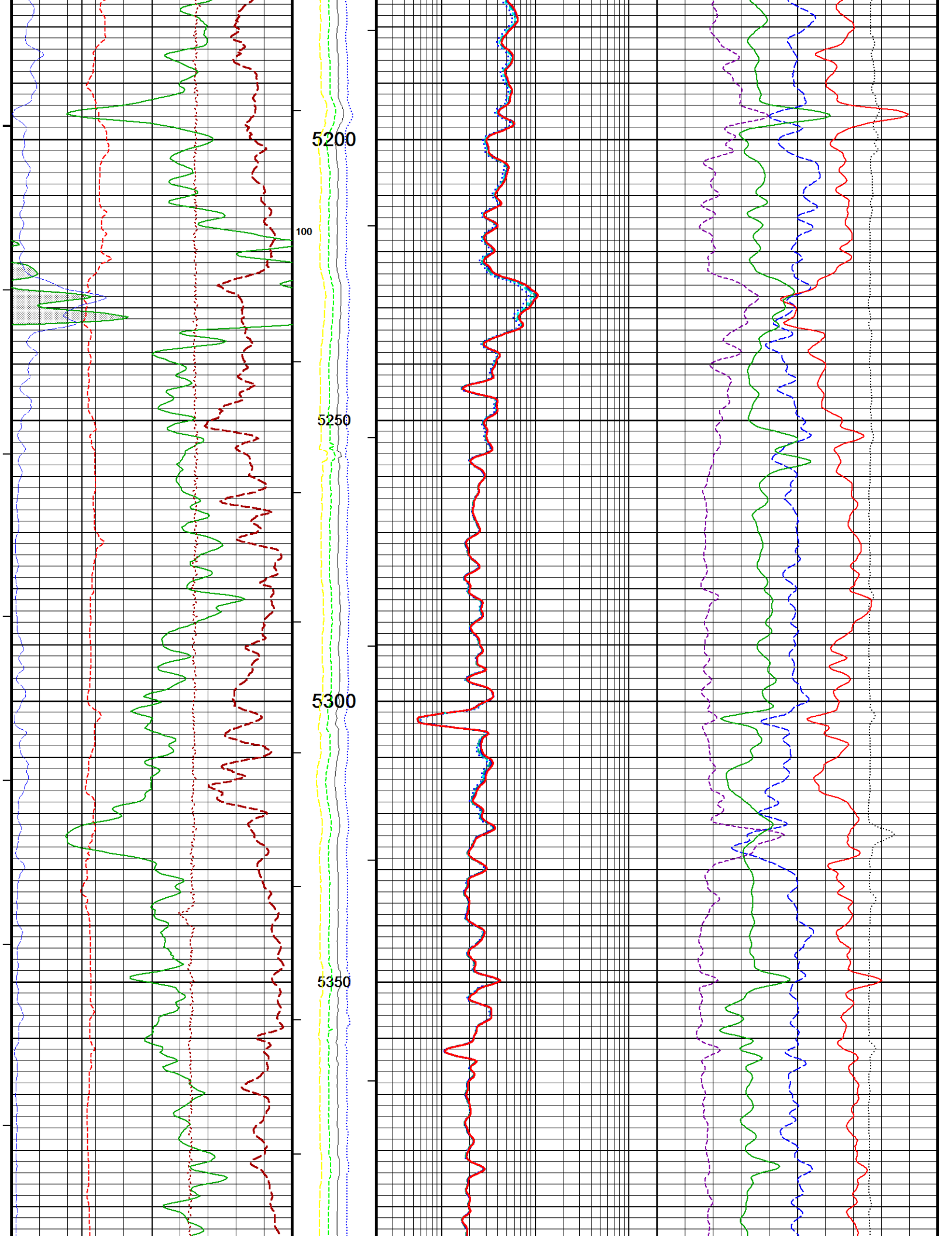

4100
4150
4200
4250
400
600
←Apparent Water Res
DST Uphole Tension→
←Bit Size
3-5' Compensated Sonic→
Array Ind. Two Res Rt→
Array Ind. Two Res 85→
Array Ind. Two Res 60→
Array Ind. Two Res 40→
Array Ind. Two res 30→
Array Ind. Two res 20→

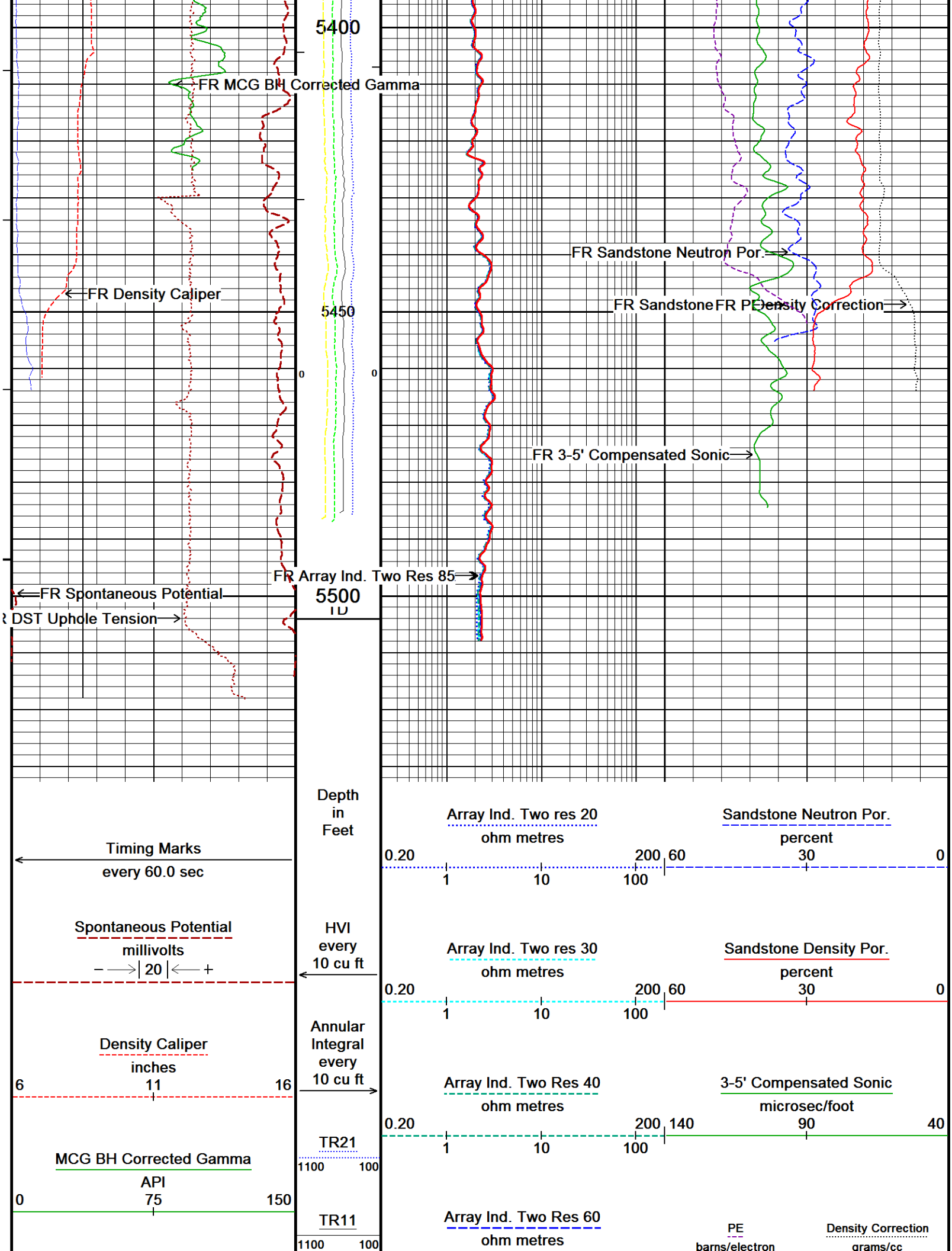

MCG BH Corrected Gamma
Density Caliper
Spontaneous Potential
Sandstone Density Por
PE
Density Correction
Sandstone Neutron Por
4300
4350
4400
500
4450
4500

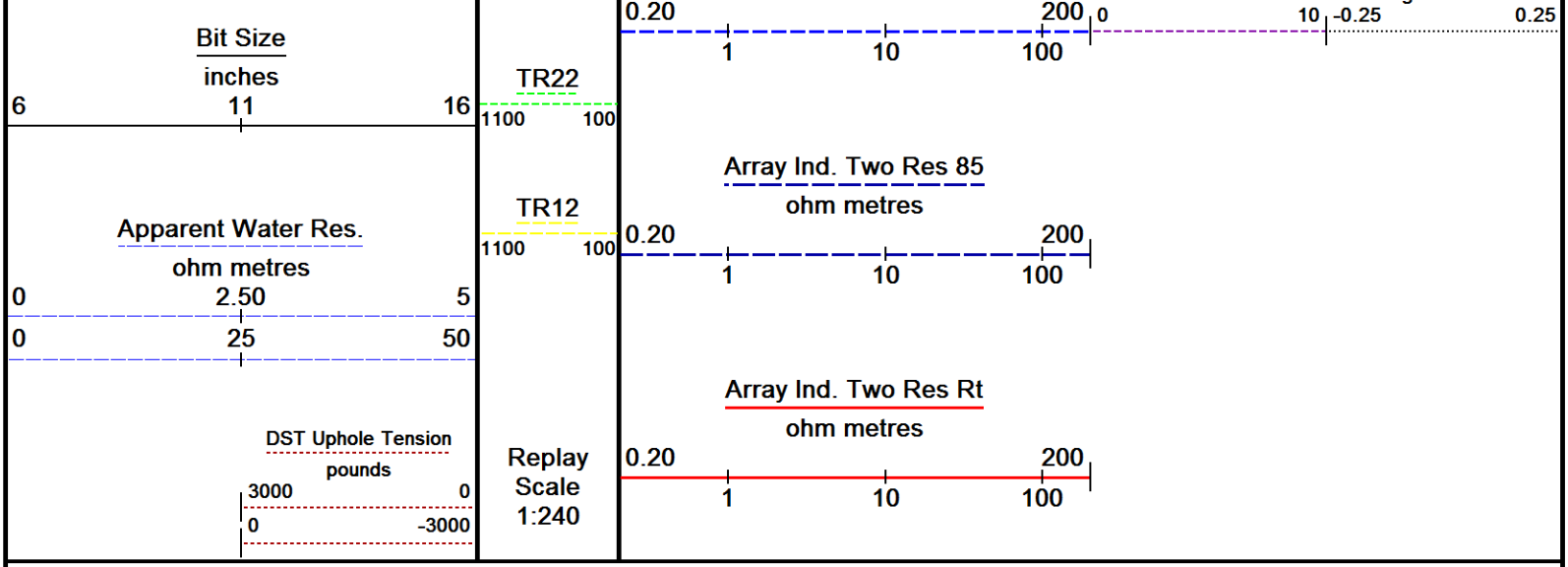

4550
300
4600
400
4650
4700
Apparent Water Res.
DST Uphole Tension
Bit Size
MCG BH Corrected Gamma
Density Caliper
Spontaneous Potential
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
Sandstone Density Por.
3-5' Compensated Sonic
PE
Density Correction
Sandstone Neutron Por.


4750
200
300
4800
4850
4900
4950


5000
200
5050
5100
5150
Apparent Water Res.
DST Uphole Tension
Bit Size
MCG BH Corrected Gamma
Density Caliper
Spontaneous Potential
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two res 30
Array Ind. Two res 20
3-5' Compensated Sonic
Sandstone Density Por
PE
Density Correction
Sandstone Neutron Por


5200
100
5250
5300
5350

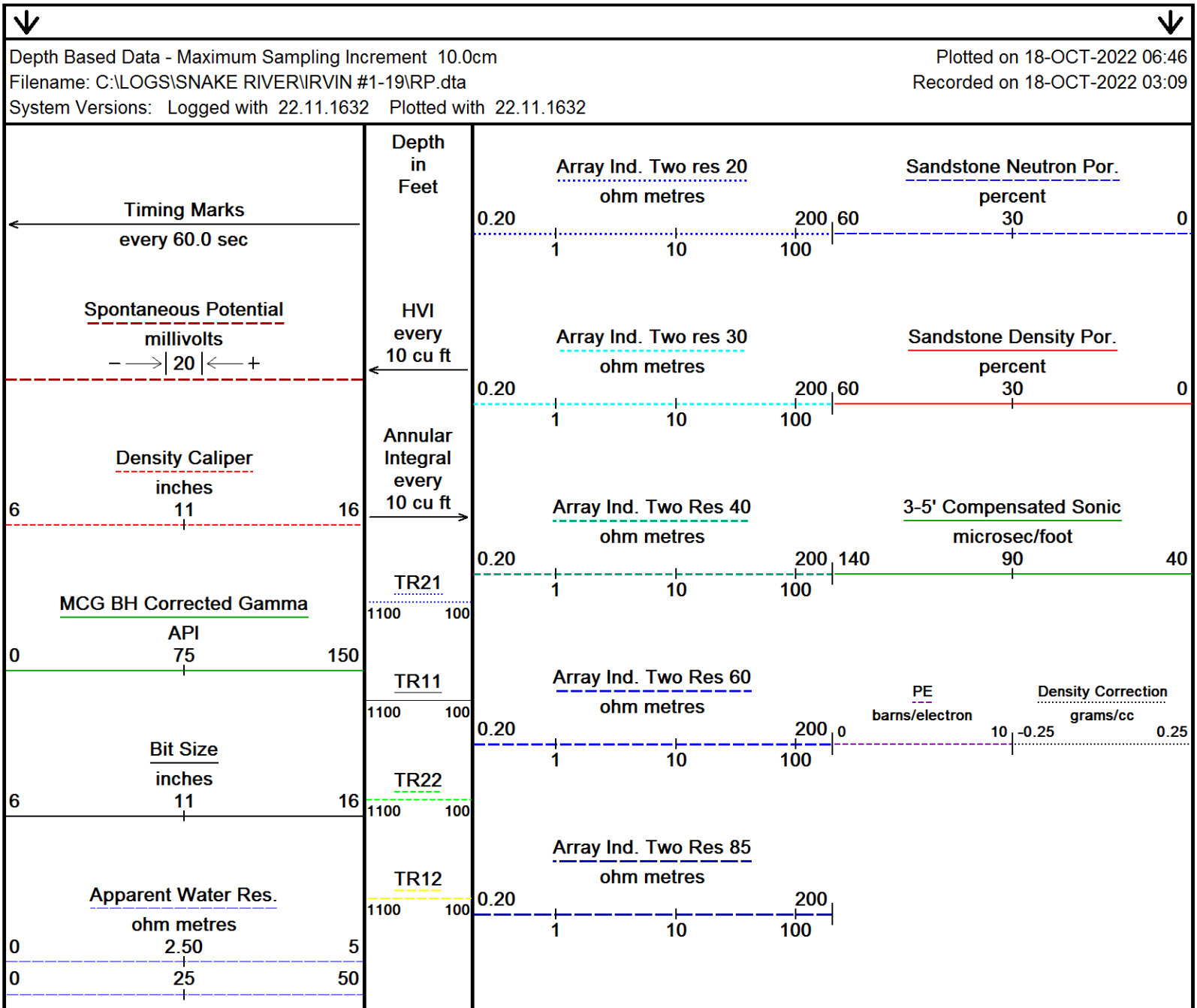

5400
FR MCG BH Corrected Gamma
FR Sandstone Neutron Por.
FR Density Caliper
5450
FR Sandstone FR PDensity Correction
0
0
FR 3-5' Compensated Sonic
FR Array Ind. Two Res 85
FR Spontaneous Potential
5500
TD
DST Uphole Tension
Depth
in
Feet
Timing Marks
every 60.0 sec
Array Ind. Two res 20
ohm metres
0.20
200
1
10
100
Sandstone Neutron Por.
percent
60
30
0
Spontaneous Potential
millivolts
20
HVI
every
10 cu ft
Array Ind. Two res 30
ohm metres
0.20
200
1
10
100
Sandstone Density Por.
percent
60
30
0
Density Caliper
inches
6
11
16
Annular
Integral
every
10 cu ft
Array Ind. Two Res 40
ohm metres
0.20
200
1
10
100
3-5' Compensated Sonic
microsec/foot
140
90
40
MCG BH Corrected Gamma
API
0
75
150
TR21
1100
100
TR11
1100
100
Array Ind. Two Res 60
ohm metres
PE
barns/electron
Density Correction
grams/cc

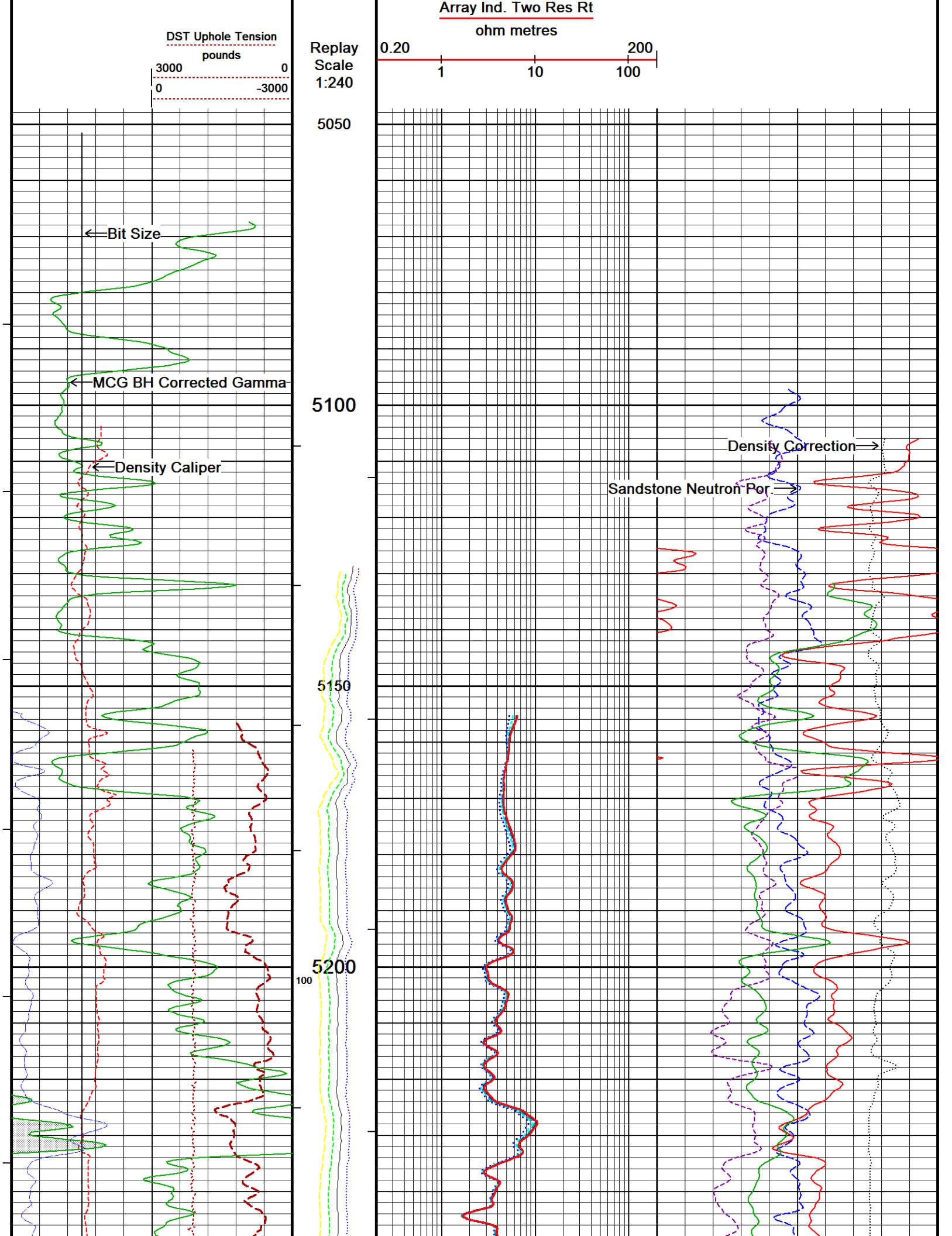


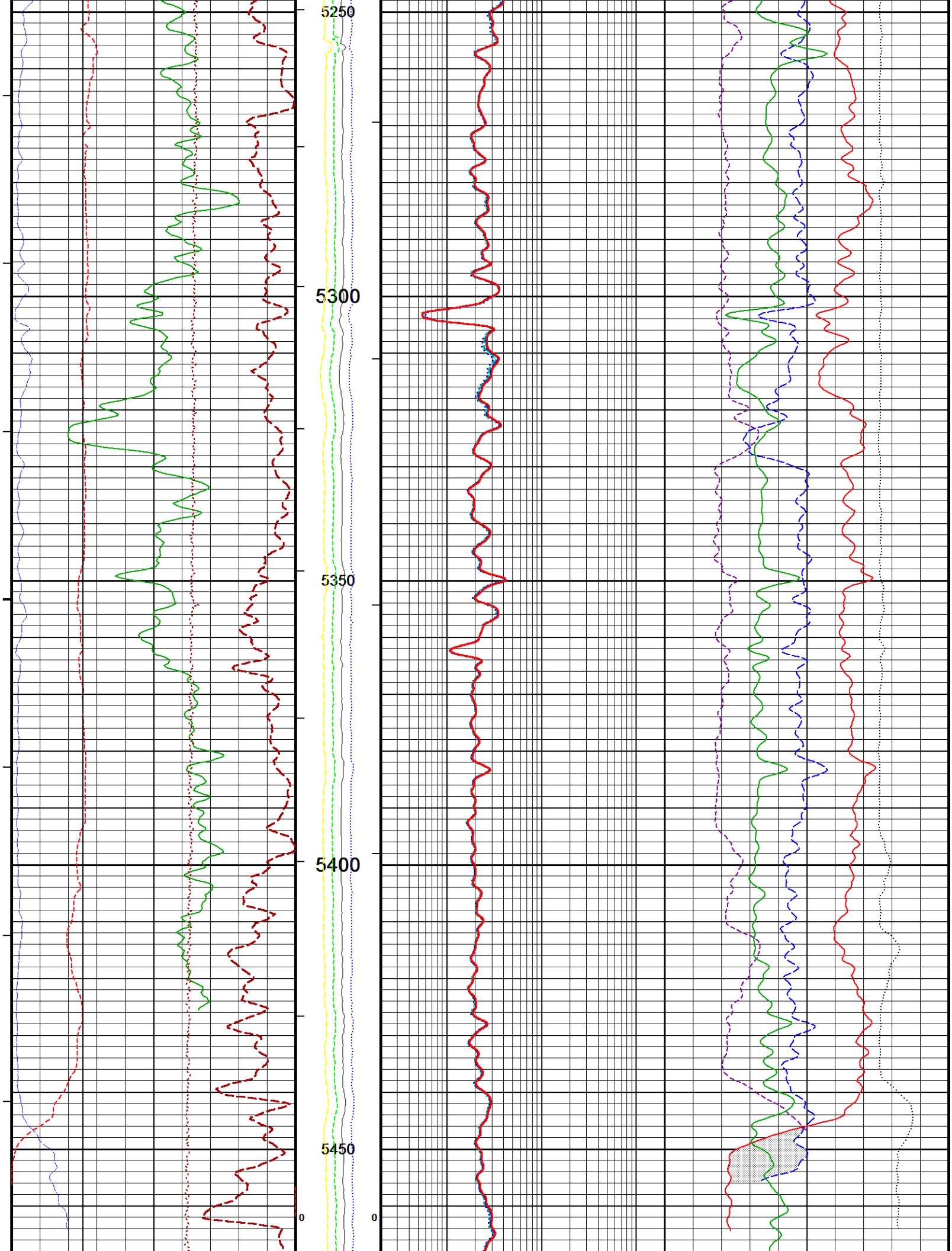
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\LOGS\SNAKE RIVER\IRVIN #1-19\MP.dta
System Versions: Logged with 22.11.1632 Plotted with 22.11.1632

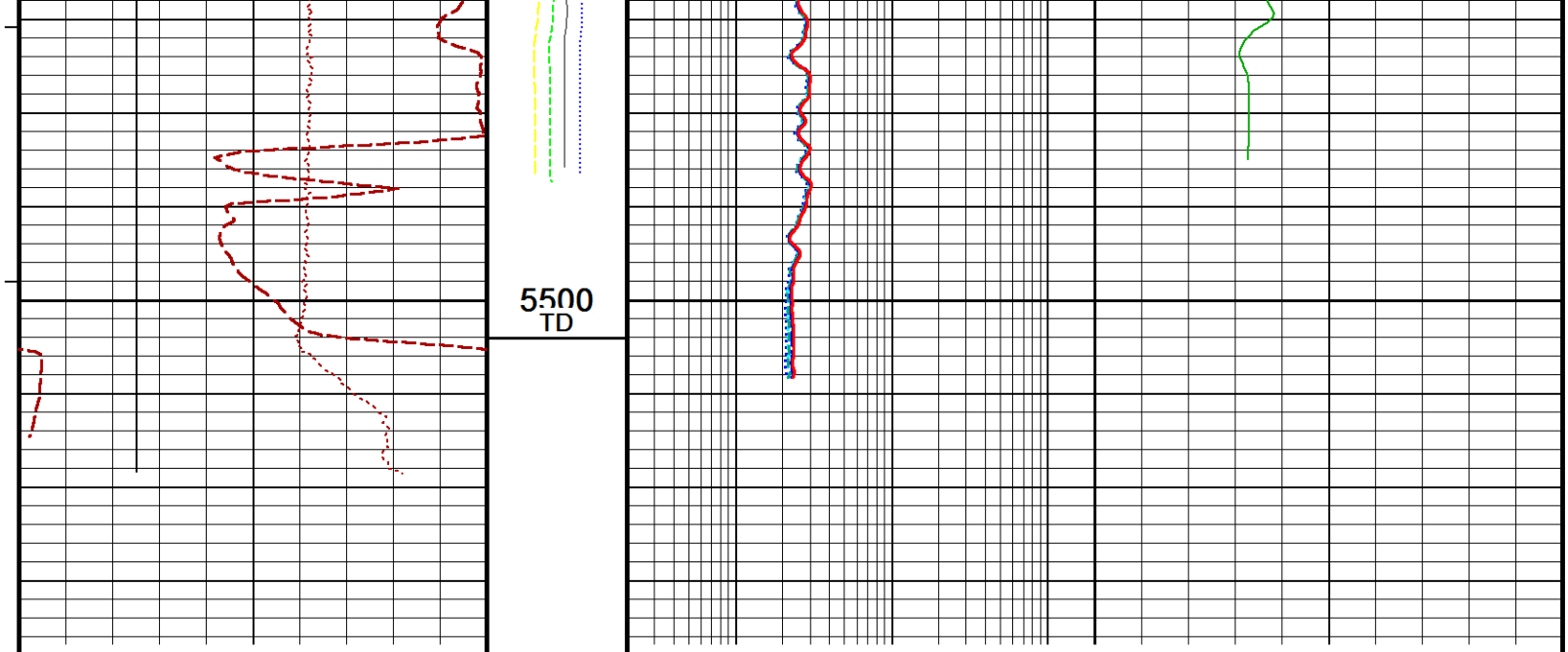
Plotted on 18-OCT-2022 06:46
Recorded on 18-OCT-2022 03:28

5 INCH MAIN PASS




DST Uphole Tension
pounds
3000
0
0
-3000
Replay
Scale
1:240
Array Ind. Two Res Rt
ohm metres
0.20
200
1
10
100
5050
Bit Size
MCG BH Corrected Gamma
5100
Density Caliper
Density Correction
Sandstone Neutron Por
5150
5200
100


5250
5300
5350
5400
5450
0
0



5500
TD

Depth
in
Feet

Timing Marks
every 60.0 sec

Spontaneous Potential
millivolts
– → | 20 | ← +

Density Caliper
inches
6 11 16

MCG BH Corrected Gamma
API
0 75 150

Bit Size
inches
6 11 16

Apparent Water Res.
ohm metres
0 2.50 5
0 25 50

DST Uphole Tension
pounds
3000 0
0 -3000

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

TR21
1100 100

TR11
1100 100

TR22
1100 100

TR12
1100 100

Replay
Scale
1:240

Array Ind. Two res 20
ohm metres
0.20 200
1 10 100

Sandstone Neutron Por.
percent
60 30 0

Array Ind. Two res 30
ohm metres
0.20 200
1 10 100

Sandstone Density Por.
percent
60 30 0

Array Ind. Two Res 40
ohm metres
0.20 200
1 10 100

3-5' Compensated Sonic
microsec/foot
140 90 40

Array Ind. Two Res 60
ohm metres
0.20 200
1 10 100

PE
barns/electron
0 10

Density Correction
grams/cc
-0.25 0.25

Array Ind. Two Res 85
ohm metres
0.20 200
1 10 100

Array Ind. Two Res Rt
ohm metres
0.20 200
1 10 100

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\LOGS\SNAKE RIVER\IRVIN #1-19\RP.dta
System Versions: Logged with 22.11.1632 Plotted with 22.11.1632

Plotted on 18-OCT-2022 06:46
Recorded on 18-OCT-2022 03:09

System Versions: Logged with 22.11.1052 Plotted with 22.11.1052

BEFORE SURVEY CALIBRATION

C:\LOGS\SNAKE RIVER\IRVIN #1-19\MP.dta

General Constants All 000

Last Edited on 17-OCT-2022,23:54

General Parameters		
Mud Resistivity	4.680	ohm-metres
Mud Resistivity Temperature	75.000	degrees F
Water Level	0.000	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	5.500	inches
Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Two Res Rt	
RWA Constant A	0.620	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

Gamma Calibration MCG-D.K 486

Field Calibration on 15-SEP-2022,10:46

	Measured	Calibrated (API)
Background	101	68
Calibrator (Gross)	841	568
Calibrator (Net)	740	500

Gamma Calibration Tolerances MCG-D.K 486

Ratio	1.481	1.40 1.475 1.55	Counts/API

Gamma Constants MCG-D.K 486

Last Edited on 17-OCT-2022,23:44

Gamma Calibrator Number	GRCC131	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.33	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

Magnetometer Parameters MBN-D.A 176

Date Of Last Magnetometer Calibration 9-SEP-2020,10:17

	X Magnetometer	Y Magnetometer	Z Magnetometer
Slope	-1.000000	1.010036	1.000026
Offset	0.001376	0.012910	0.002829

Magnetometer Constants MBN-D.A 176

Magnetometer Calibrator Number 000

Navigation Constants MBN-D.A 176

Last Edited on 17-OCT-2022,23:50

Magnetic Declination 13.26 degrees East

Accelerometer Parameters MBN-D.A 176

Date Of Last Accelerometer Calibration 8-SEP-2020,12:54

	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.097960	-1.107380	-1.099386
Offset	0.004117	0.006988	0.004868

Accelerometer Constants MBN-D.A 176

Last Edited on 13-DEC-2020,15:34

Accelerometer Calibrator Number 000

Accelerometer Temperature Characterisation

X Accelerometer

Serial Number	1385			
Calibration Date	25-Feb-2013			
	B0	B1	B2	B3
Bias(g)	0.00000e+00	1.64598e-05	3.28954e-08	-1.30747e-10
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+00	2.66357e-04	3.96431e-07	3.62405e-10

Y Accelerometer

Serial Number	1287			
Calibration Date	31-Jan-2013			
	B0	B1	B2	B3
Bias(g)	0.00000e+00	1.52213e-05	-4.98732e-08	3.43698e-10
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+00	2.77451e-04	3.32682e-07	2.72571e-10

Z Accelerometer

Serial Number	1261			
Calibration Date	31-Jan-2013			
	B0	B1	B2	B3
Bias(g)	0.00000e+00	2.16353e-05	-2.68342e-09	1.76340e-10
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+00	2.67985e-04	3.40710e-07	9.98453e-10

Neutron Calibration MDN-C.A 501

Base Calibration on 15-SEP-2022,09:55
Field Check on 15-SEP-2022,09:55

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3166	97	3714	110
Ratio	32.802		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1966	2935
Ratio	0.670	

Field Check

	Calibrated (cps)	
	2003	2977
Ratio	0.673	

Neutron Calibration Tolerances MDN-C.A 501

Ratio	32.802	-5% 33 +5%
Base Check	0.670	0.65 0.7 0.75
Field Check	0.673	0.650 0.670 0.690

Neutron Constants MDN-C.A 501

Last Edited on 15-OCT-2022,08:47

Neutron Source Id	N-1057	
Neutron Jig Number	NJ5736	
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	

Sonic Constants MSS-C.A 164

Last Edited on 17-OCT-2022,23:41

Maximum Boundary Contrast	70.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft
Sonde Mode	Compensated	
Hole Type	Open Hole	

Sonde Parameters

	Measured	Calibrated
Offset		0.0000
Free Pipe	N/A	N/A

Peak Amplitude Source: N/A

Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing: N/A

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A
N/A	N/A	N/A	
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
Waveform Discriminator Filter	N/A	
Semblance Window Width	N/A	micro-sec
Semblance Processing Enabled	N/A	
Tracking Boxes Enabled In Processing	N/A	

Induction Calibration MAI-C.A 482

Factory Loop Calibration 25-SEP-2012,17:44
Field Check on 15-SEP-2022,11:41

Factory Loop Calibration

High Conductivity Reference Resistor	3.3	ohm
Low Conductivity Reference Resistor	333.3	ohm

	Measured Signal (unitless)		Reference Conductivity (mmho/m)		Calibration	
Array	Low	High	Low	High	Gain	Offset
1 (near)	16.2	461.2	9.3	966.2	2.150	-25.6
2	5.6	374.0	7.6	821.4	2.209	-4.8
3	3.1	250.7	5.2	566.0	2.265	-1.7
4 (far)	1.0	132.3	2.6	279.2	2.107	0.4

Array Temperature: 75.6 Deg F

Array Temperature 75.6 Deg F

Tool Checks 15-SEP-2022,11:35

Array	Factory Reference (mmho/m) Low	Factory Reference (mmho/m) High	Before Survey (mmho/m) Low	Before Survey (mmho/m) High	
1 (near)	-4.1	2086.8	-4.1	2086.8	
2	14.7	1918.4	14.8	1918.3	
3	15.4	1680.9	15.4	1680.9	
4 (far)	11.6	1107.9	11.6	1107.8	
Array Temperature		98.7		82.2	Deg F

Tool Zero Corrections

Array		
1 (near)	0.0	mmho/m
2	0.0	mmho/m
3	0.0	mmho/m
4 (far)	0.0	mmho/m

Induction Check Tolerances MAI-C.A 482

Low Array 1	-4.1	-5.6 / -4.1 / -2.6	mmho/m	High Array 1	2086.8	-0.5% / 2086.8 / +0.5%	mmho/m
Low Array 2	14.8	13.2 / 14.7 / 16.2	mmho/m	High Array 2	1918.3	-0.5% / 1918.4 / +0.5%	mmho/m
Low Array 3	15.4	13.9 / 15.4 / 16.9	mmho/m	High Array 3	1680.9	-0.5% / 1680.9 / +0.5%	mmho/m
Low Array 4	11.6	10.1 / 11.6 / 13.1	mmho/m	High Array 4	1107.8	-0.5% / 1107.9 / +0.5%	mmho/m

Induction Constants MAI-C.A 482

Last Edited on 17-OCT-2022,23:40

Induction Model	RtAP-NC	
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: Constant Temperature	
Temp. for Rm Corr.	N/A	
Borehole Correction Method	Centred	
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

Symmetrised Receiver Gains

Receiver 1	1.00
Receiver 2	1.00
Receiver 3	1.00
Receiver 4	1.00

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	

Photo Density Calibration MPD-D.A 478

Base Calibration on 15-SEP-2022,09:21
Field Check on 15-SEP-2022,09:23

Density Calibration

Base Calibration	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Background	1041	1182		
Reference 1	47431	23381	59898	31131
Reference 2	19558	2264	25116	2544

Field Check at Base		
	1041.2	1181.9

Field Check		
	1059.8	1216.3

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	200	931		
Reference 1	20971	47268	0.448	0.369
Reference 2	6098	19441	0.319	0.273

Field Check at Base		
	200.4	931.0

Field Check		
	202.2	948.2

Photo Density Calibration Tolerances MPD-D.A 478

Near Density Ratio	2.51	-5% 2.52 +5%	Far Density Ratio	20.51	-5% 21.00 +5%
PE Calibration	0.125	0.089 0.110 0.131			
Near Den. Field Check	1059.8	-3% 1041.2 +3%	Far Den. Field Check	1216.3	-3% 1181.9 +3%
PE WS Field Check	202.2	-6% 200.4 +6%	PE WH Field Check	948.2	-6% 931.0 +6%

Density Constants MPD-D.A 478

Last Edited on 17-OCT-2022,23:43

Density Source Id	P74840B	
Nylon Calibrator Number	DNCC631	
Aluminium Calibrator Number	DACD535	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.33	gm/cc
Mud Density Type	Non-Barite	
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	
Precision Enhanced Density Processing	Applied	
Density Detector Type	Compensated Density	

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	

Caliper Calibration MPD-D.A 478

Base Calibration on 15-SEP-2022,08:40
Field Calibration on 15-SEP-2022,08:41

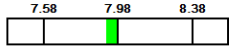
Base Calibration

Reading No	Measured	Calibrator Size (in)
1	9834	4.00
2	18404	5.76
3	27244	7.97
4	35409	9.84
5	44527	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.92	7.98

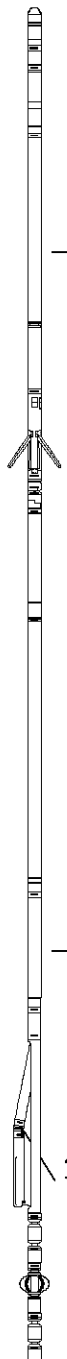
Caliper Calibration Tolerances MPD-D.A 478

Long Arm Field Cal. 7.92 

in

DOWNHOLE EQUIPMENT

C:\LOGS\SNAKE RIVER\IRVIN #1-19\MP.dta



Cablehead, 11 pin
CBH-DB 233 LG: 2.40 ft WT: 24.3 lb OD: 2.240 in

Compact Swivel Head Adaptor
SHA-J.B 581 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma
MCG-D.K 486 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

- 89.74 ft GGCE - MCG BH Corrected Gamma

Compact Vee Arm Caliper
MVC-A.A 130 LG: 8.06 ft WT: 61.7 lb OD: 2.244 in

MCL CA126
MLK-C.A 126 LG: 3.17 ft WT: 26.5 lb OD: 2.240 in

Compact Navigation
MBN-D.A 176 LG: 11.81 ft WT: 70.5 lb OD: 2.244 in

Compact Neutron
MDN-C.A 501 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

- 60.24 ft NPRS - Sandstone Neutron Por.

Compact Density/Caliper
MPD-D.A 478 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

- 53.00 ft AVOL - Annular Volume
- 53.00 ft HVOL - Hole Volume
- 53.00 ft CLDC - Density Caliper
- 51.07 ft DPRS - Sandstone Density Por.
- 51.07 ft DCOR - Density Correction
- 51.01 ft PDPE - PE

Compact Knuckle Joint
SKJ-E.B 469 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Inline Standoff sub
MIS-E.B 578 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

MIS-E.B 578 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 581 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Two Arm Caliper
MTC-B.J 216 LG: 7.11 ft WT: 61.7 lb OD: 2.240 in

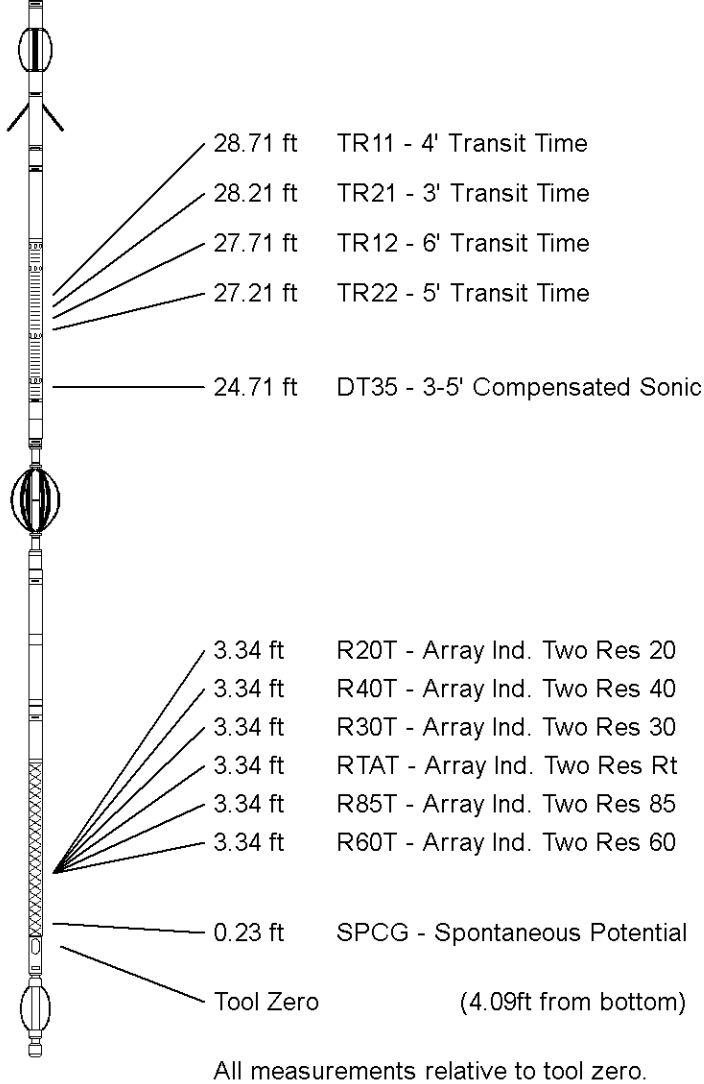
Compact Sonic
MSS-C.A 164 LG: 12.52 ft WT: 72.8 lb OD: 2.240 in

Compact Inline Bowspring sub
MIS-D.B 806 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

Compact Focussed Electric
MFE-C.A 413 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction
MAI-C.A 482 LG: 14.76 ft WT: 48.5 lb OD: 2.240 in

Total Length: 103.67 ft Weight: 738.5 lb



All measurements relative to tool zero.

COMPANY	SNAKE RIVER OIL AND GAS, LLC
WELL	IRVIN #1-19
FIELD	WILDCAT
PROVINCE/COUNTY	PAYETTE
COUNTRY/STATE	U.S.A. / IDAHO

Elevation Kelly Bushing	2204.50	feet	Last Reading	0.00	feet
Elevation Drill Floor	2204.50	feet	First Reading	5499.68	feet
Elevation Ground Level	2192.00	feet	Depth Driller	5500.00	feet
			Depth Logger	5504.00	feet

XTREME WIRELINE INC

MEASURED DEPTH

COMPACT QUAD COMBO