



Weatherford

**MEASURED DEPTH
COMPACT QUAD COMBO**

COMPANY SNAKE RIVER OIL AND GAS, LLC
 WELL BARLOW #3-14
 FIELD WILDCAT
 COUNTY PAYETTE
 STATE U.S.A. / IDAHO
 UWI SHL: 2494' FWL & 1567' FSL

SEC 14 TWP 8N RGE 5W Other Services
 Latitude 44.029874
 Longitude 116.903009
 API Number 11-075-20040
 Permanent Datum GL, Elevation 2164 feet
 Log Measured From KB, 12.50 feet above Permanent Datum
 Drilling Measured From KB

Elevations:
 KB 2176.50
 DF 2176.50
 GL 2164.00

Date	10-NOV-2022
Run Number	1
Service Order	6443-354696525
Depth Driller	5501.00 feet
Depth Logger	5501.00 feet
First Reading	5475.50 feet
Last Reading	1135.00 feet
Casing Driller	1135.00 feet
Casing Logger	1135.00 feet
Bit Size	8.500 inches
Hole Fluid Type	WBM
Density / Viscosity	10.95 lb/USg 38.00 sec/qt
PH / Fluid Loss	7.00 3.00 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	2.68 @ 75.0 ohm-m
Rmf @ Measured Temp	2.01 @ 75.0 ohm-m
Rmc @ Measured Temp	3.35 @ 75.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	1.24 @ 166.0 ohm-m
Time Since Circulation	0.15 HRS
Max Recorded Temp	166.00 deg F
Equipment / Base	4214 FTW
Recorded By	ARBER CUKU
Witnessed By	DAVE SMITH
RIG	PAUL GRAHAM4 CLINT HARMAN

RECEIVED
 jthum , 11/17/2022, 11:28:39 AM

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.

BOREHOLE RECORD			Last Edited: 10-NOV-2022 09:17	
Bit Size	Depth From	Depth To		
inches	feet	feet		
8.500	1135.00	5501.00		
CASING RECORD				
Type	Size	Depth From	Shoe Depth	Weight
	inches	feet	feet	pounds/ft
CASING	9.625	0.00	1135.00	40.00

REMARKS
 TOOLSTRING RUN AS PER THE TOOL STRING DIAGRAM. MAXIMUM OD OF 3.25 inches AT THE MAI TOOL.

TOOLSTRING CONFIGURED FOR VERTICAL AND LOW DEVIATION TRAJECTORY

DIRECTIONAL DATA PROVIDED BY "TITAN DIRECTIONAL DRILLING": 9-NOV-2022.

MAXIMUM DEVIATION: 36.7 degrees @ 2620.0 feet.

PRIMARY SERVICES ACQUIRED: MGS: COMPACT GAMMA RAY
MDN: DUAL SPACED NEUTRON
MPD: PHOTO-DENSITY
MSS: MONOPOLE SONIC.
MAI-MFE: ARRAY INDUCTION

HARDWARE USED: MPD: 4 inch PROFILE PLATE
MIS-D: DOUBLE BOWSPRING TO SIDEWALL THE MDN FROM ABOVE.
MVC: USED TO SIDEWALL THE MPD FROM BELOW.
MSS: 0.5 INCH STANDOFF AT MIDDLE.
MSS: 0.5 INCH INLINE STANDOFF AT TOP AND BOTTOM
MFE: 0.5 INCH INLINE STANDOFF AT TOP AND BOTTOM
MAI: 0.5 INCH PINEAPPLE STANDOFF ON BOTTOM

CORRECTIONS APPLIED:

2.65 G/CC MATRIX DENSITY USED TO CALCULATE POROSITY.

BARITE CORRECTION WAS APPLIED TO THE PHOTO DENSITY DUE TO ITS PRESENCE IN THE MUD SYSTEM

BARITE CORRECTION WAS APPLIED TO THE NEUTRON DUE TO ITS PRESENCE IN THE MUD SYSTEM

DEPTH CONTROL:

PRIMARY DEPTH REFERENCE USED WAS PIPE STRAP

PRIMARY DEPTH SYSTEM USED WAS MD TOTCO

LOGGING TOOLS DEPLOYED AT 5378.99 ft.
||BOTTOM OF LOGGING TOOLS AFTER DEPLOYMENT : 5481.0 ft .

LOGGING TOOLS DEPLOYED BY USING MESSENGER COMPACT WELL SHUTTLE CONVEYANCE.

BOREHOLE CONDITION:

BOTTOMS UP CIRCULATED BEFORE TOOLS DEPLOYED..

A HEAVY MUD WAS PUMPED PRIOR LOGGING UPHOLE AS PER CLIENT REQUEST.

POST ACQUISITION PROCESSING:

DUE TO PRESENCE OF A VERY HIGH RESISTIVITY MATERIAL IN THE FORMATION THE INDUCTION TOOL GAVE THE COMMAND TO CLOSE THE DENSITY CALIPER CALIPER IN THE INTERVAL 4386.2 FT to 4321.4 FT.

HOLE VOLUME FROM 5422.27 FT to CASING SHOE = 2480 CU.FT

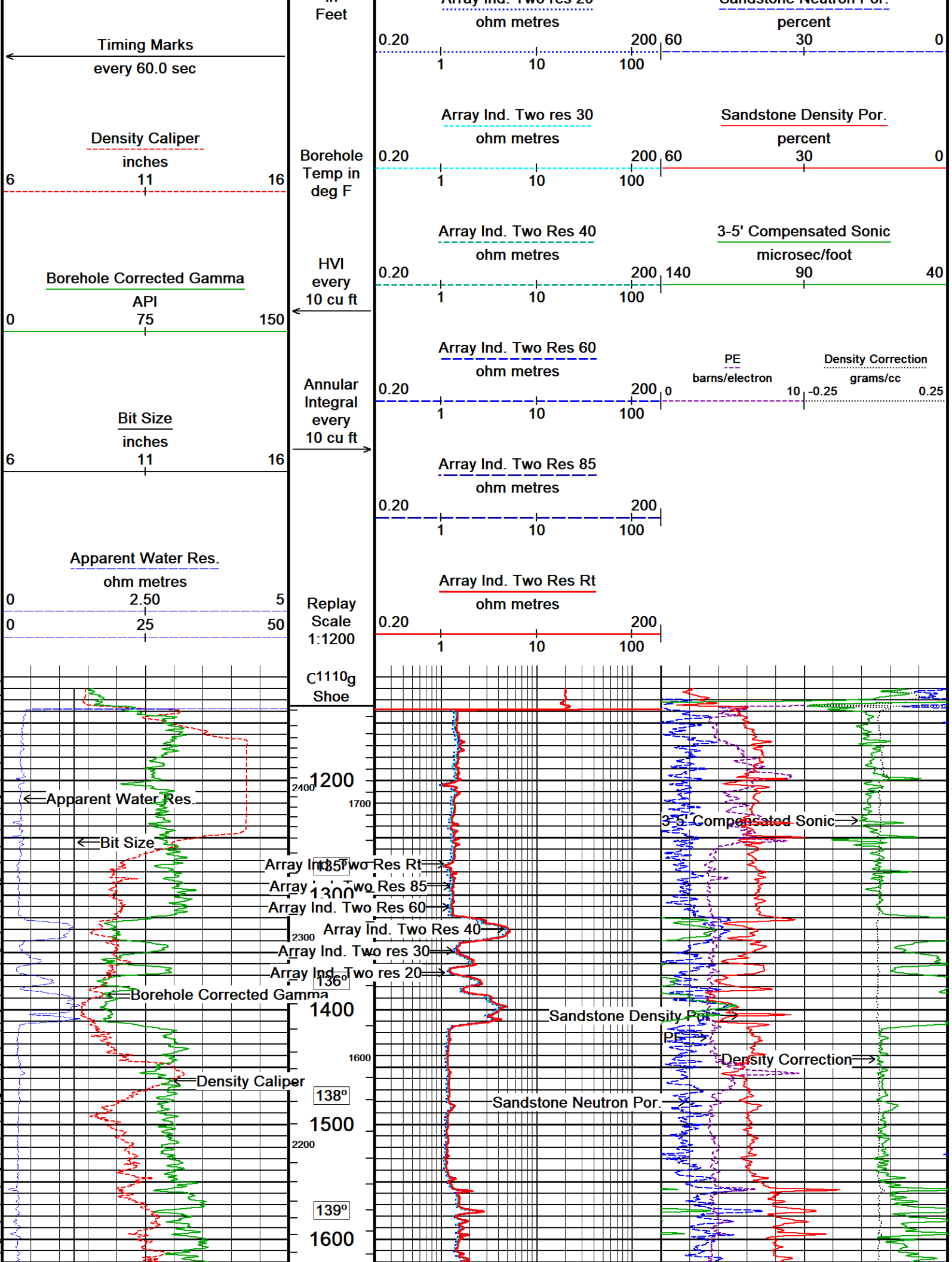
ANNULAR HOLE VOLUME FROM 5422.27 FT to CASING SHOE = 1790 CU.FT

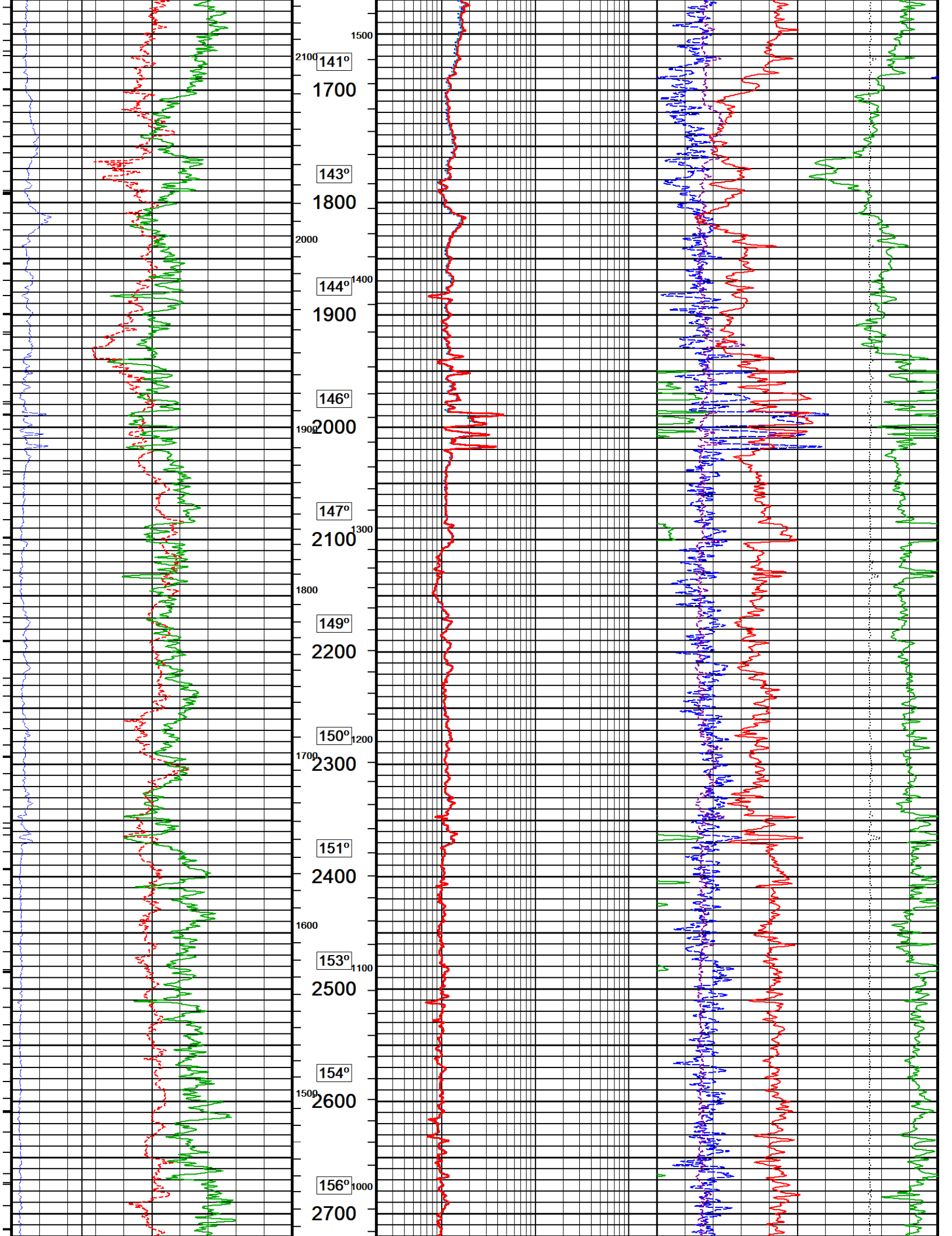
ANNULAR VOLUME WAS CALCULATED BASED ON FUTURE CASING SIZE OF 5.5 inches.

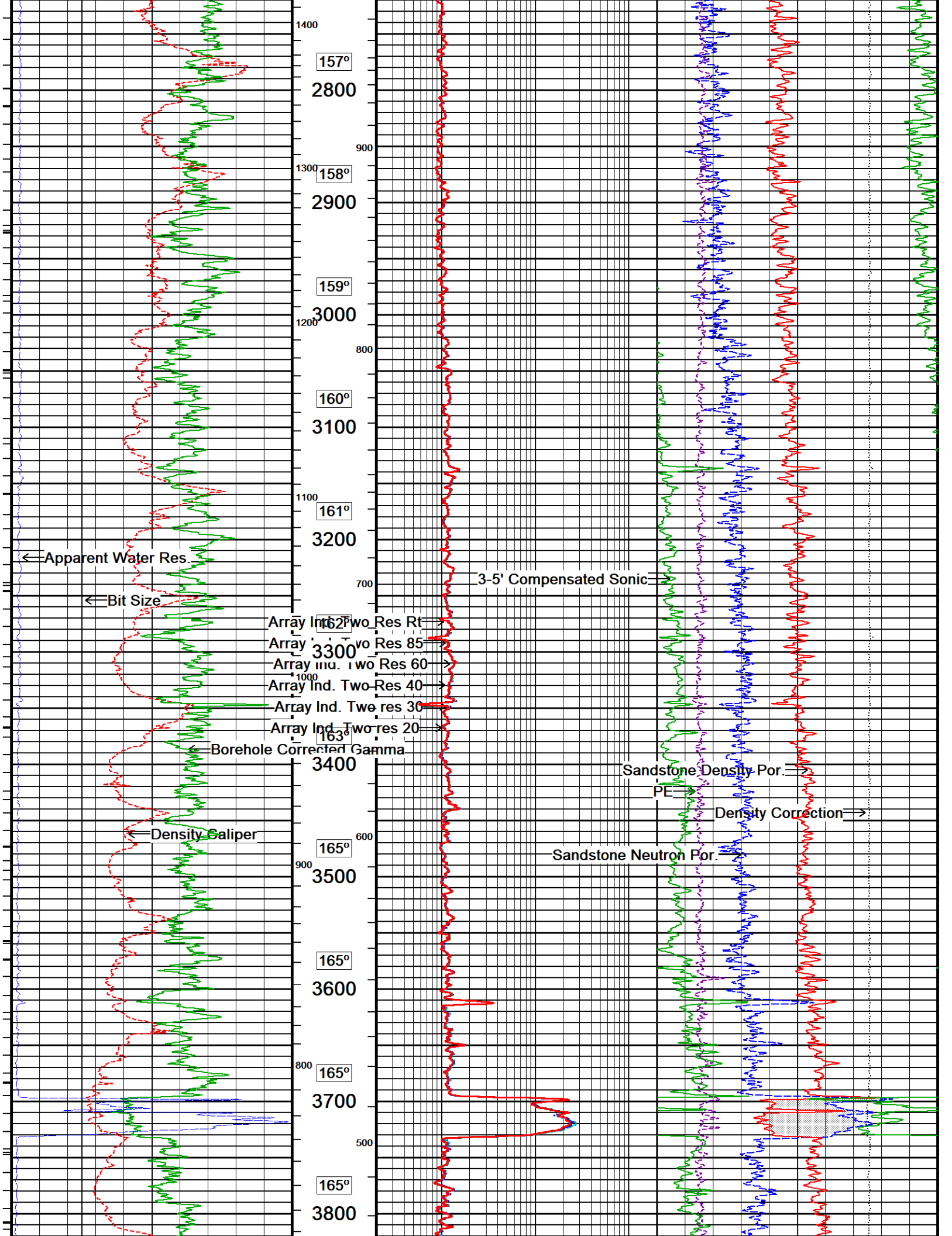
ANNULAR AND HOLE VOLUMES CALCULATED FROM DENSITY CALIPER MEASUREMENTS.

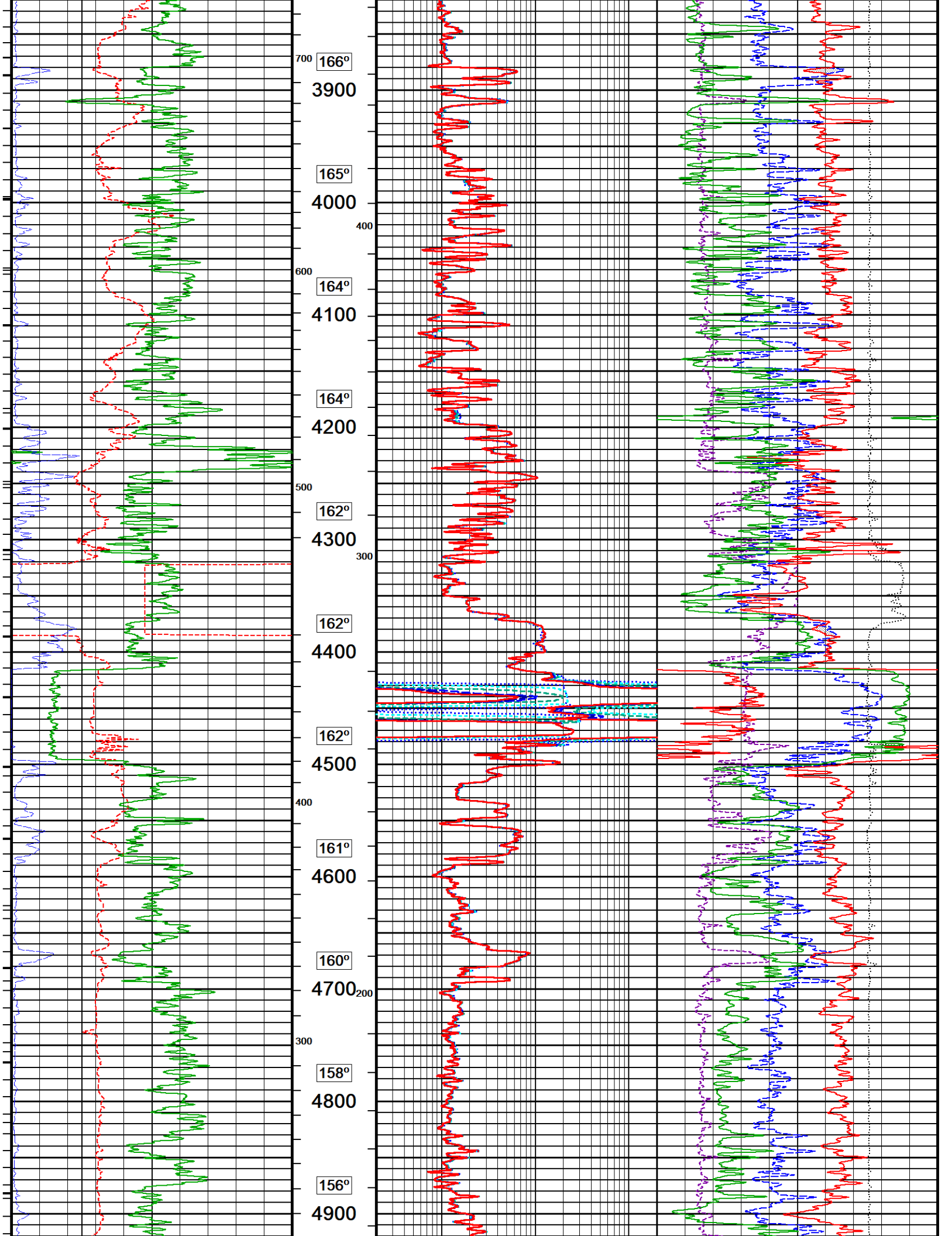
↓	1 INCH MAIN PASS	↓
Depth Based Data - Maximum Sampling Increment 10.0cm		Plotted on 11-NOV-2022 05:12
Filename: C:\LOGS\Snake River\Barlow 3-14\MAIN PASS.dta		Recorded on 11-NOV-2022 03:27
System Versions: Logged with 22.01.1627 Processed with 22.01.1627 Plotted with 22.01.1627		

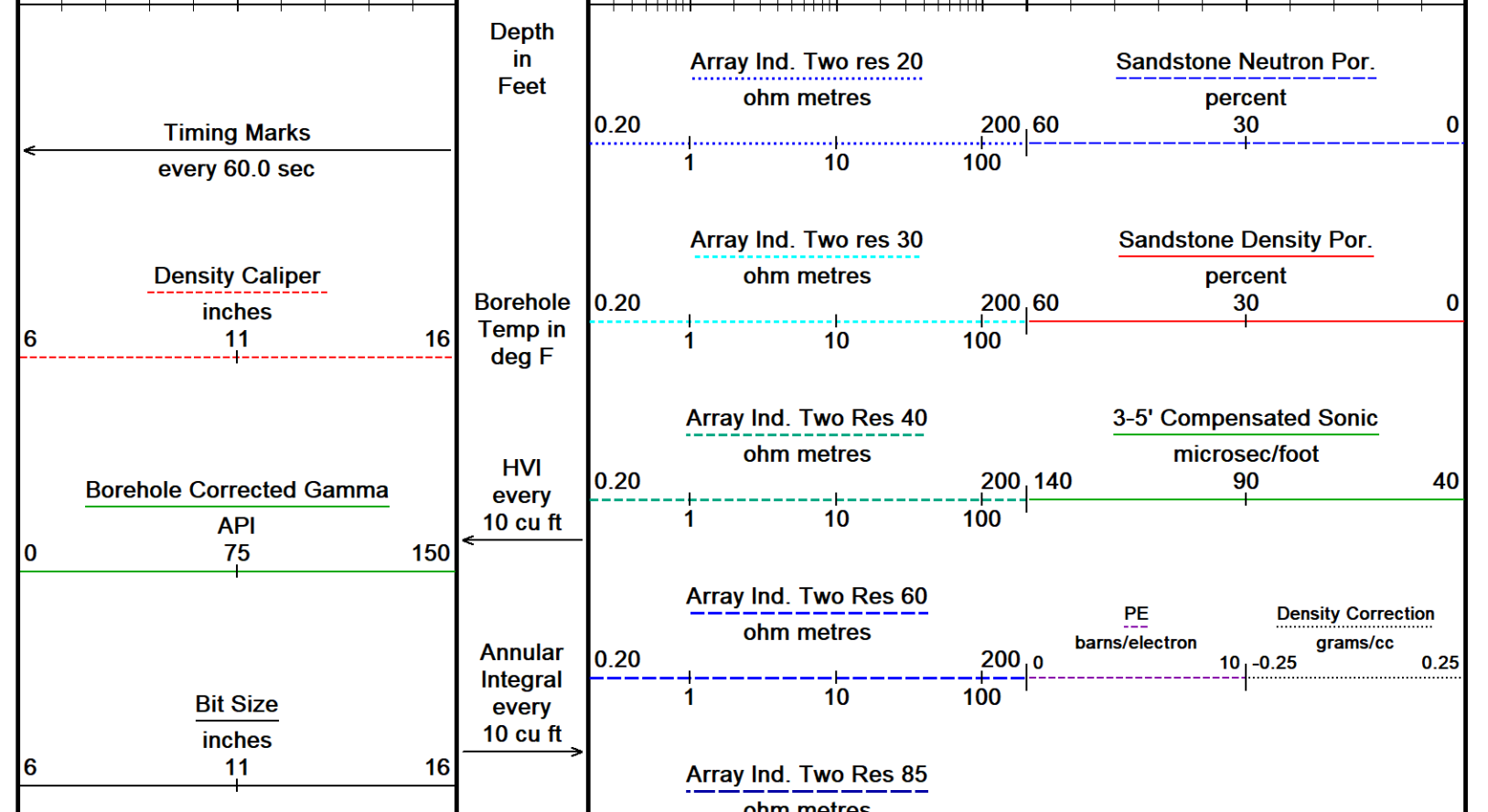
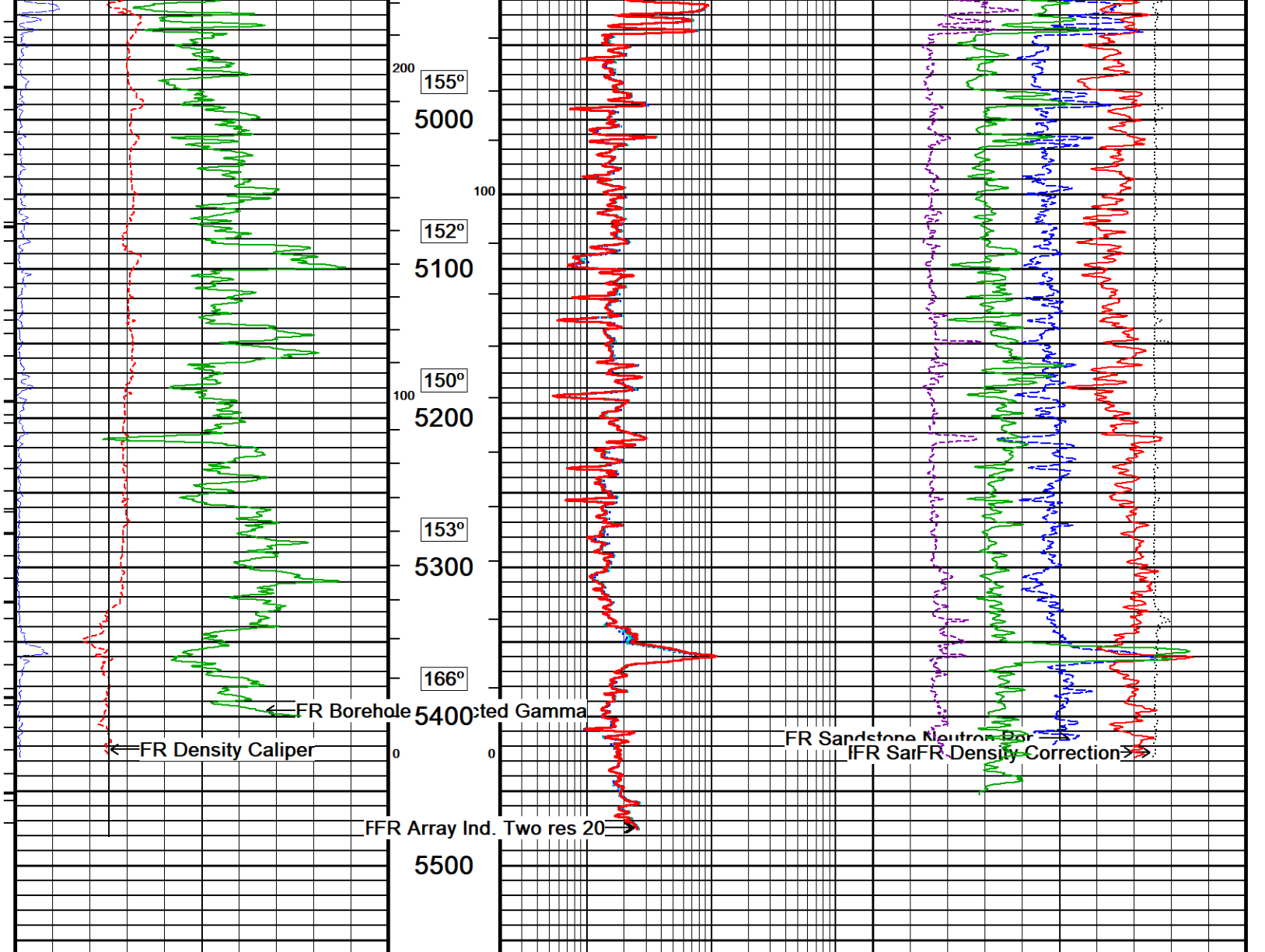
	Depth in	Array Ind. Two res 20	Sandstone Neutron Por
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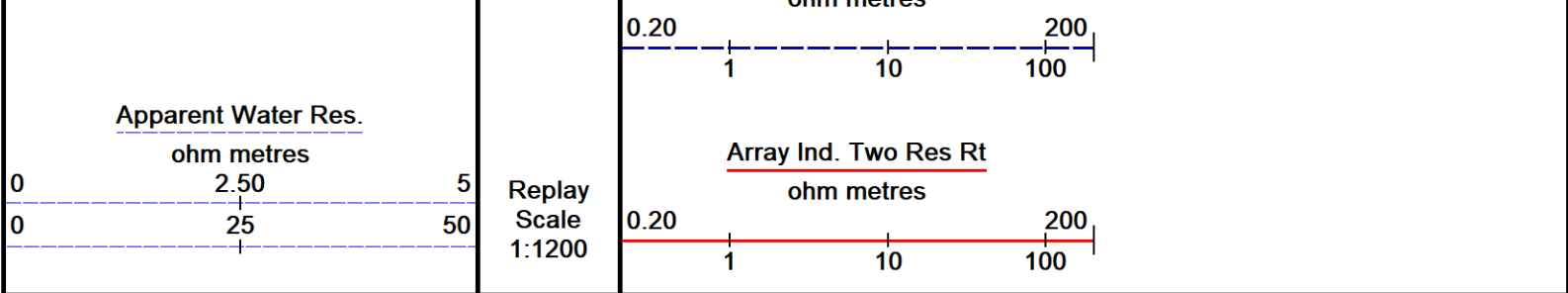






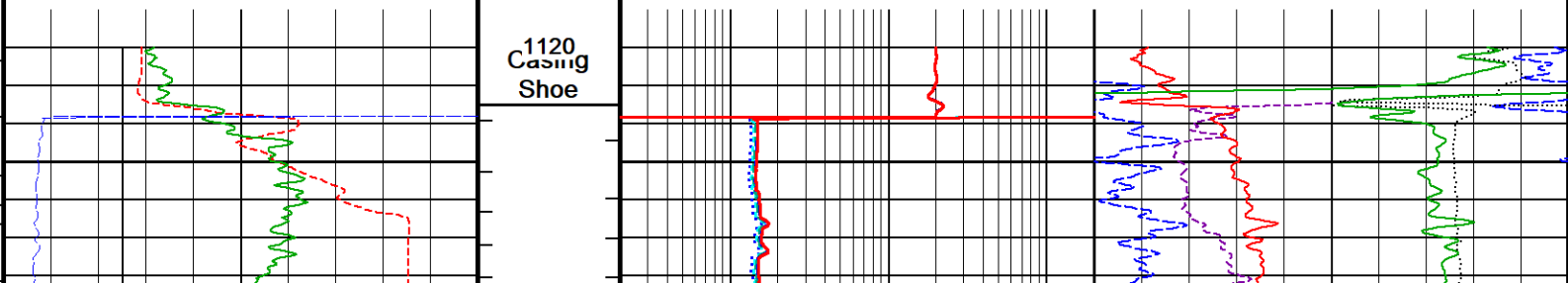
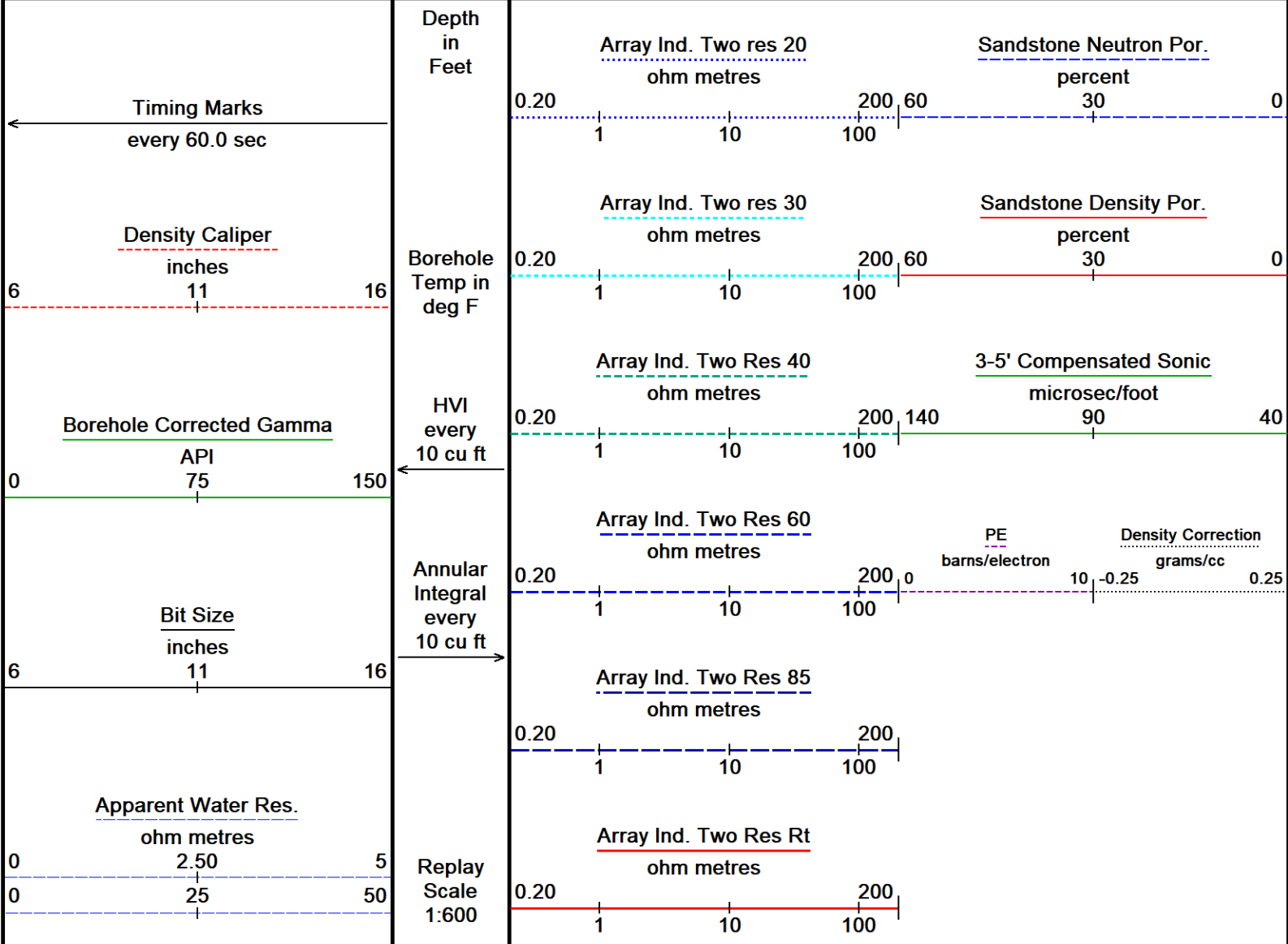
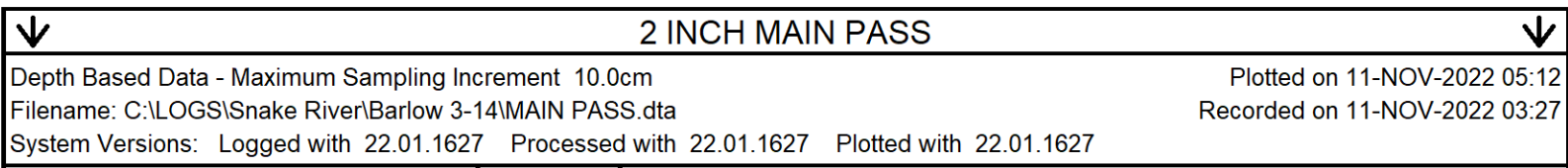


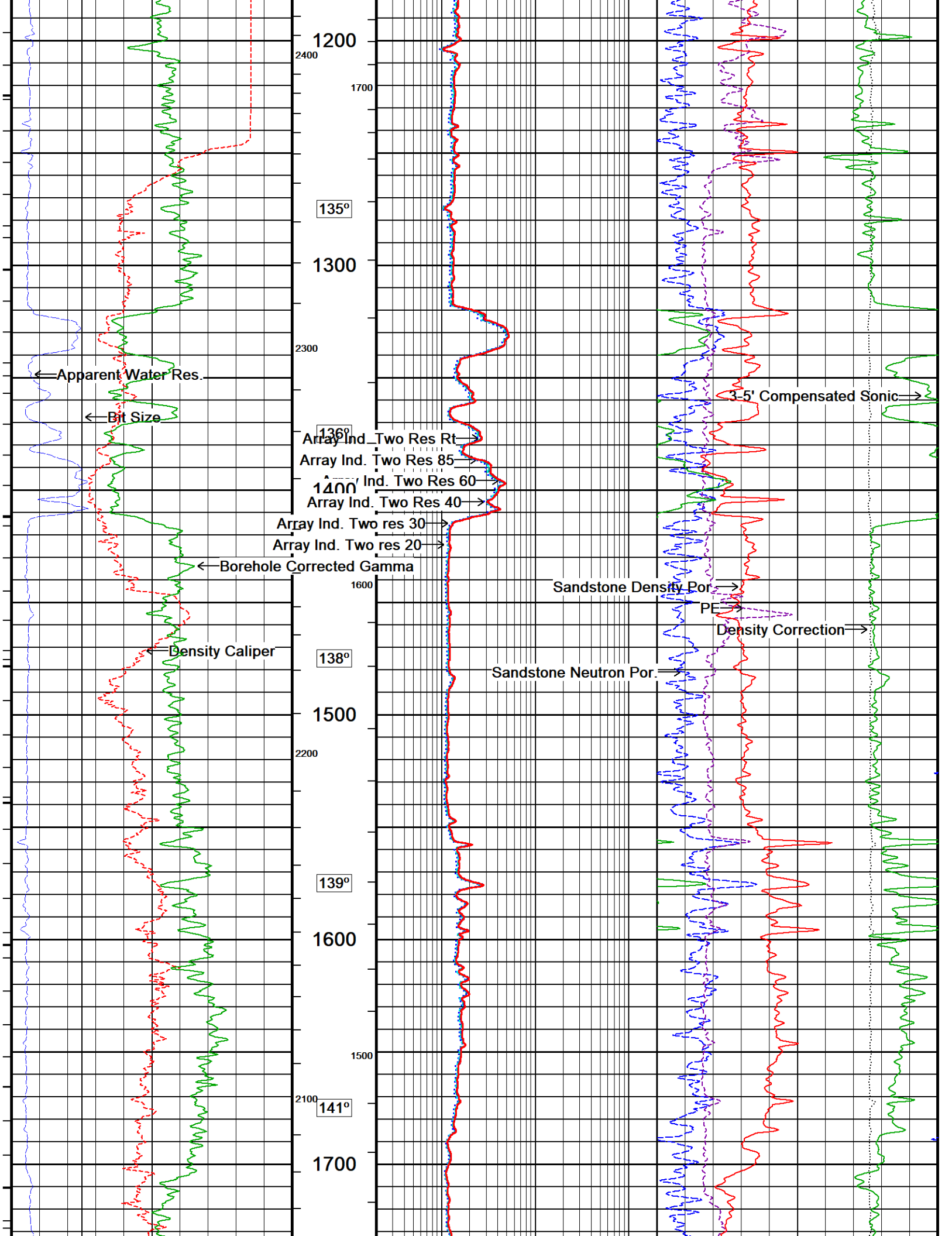


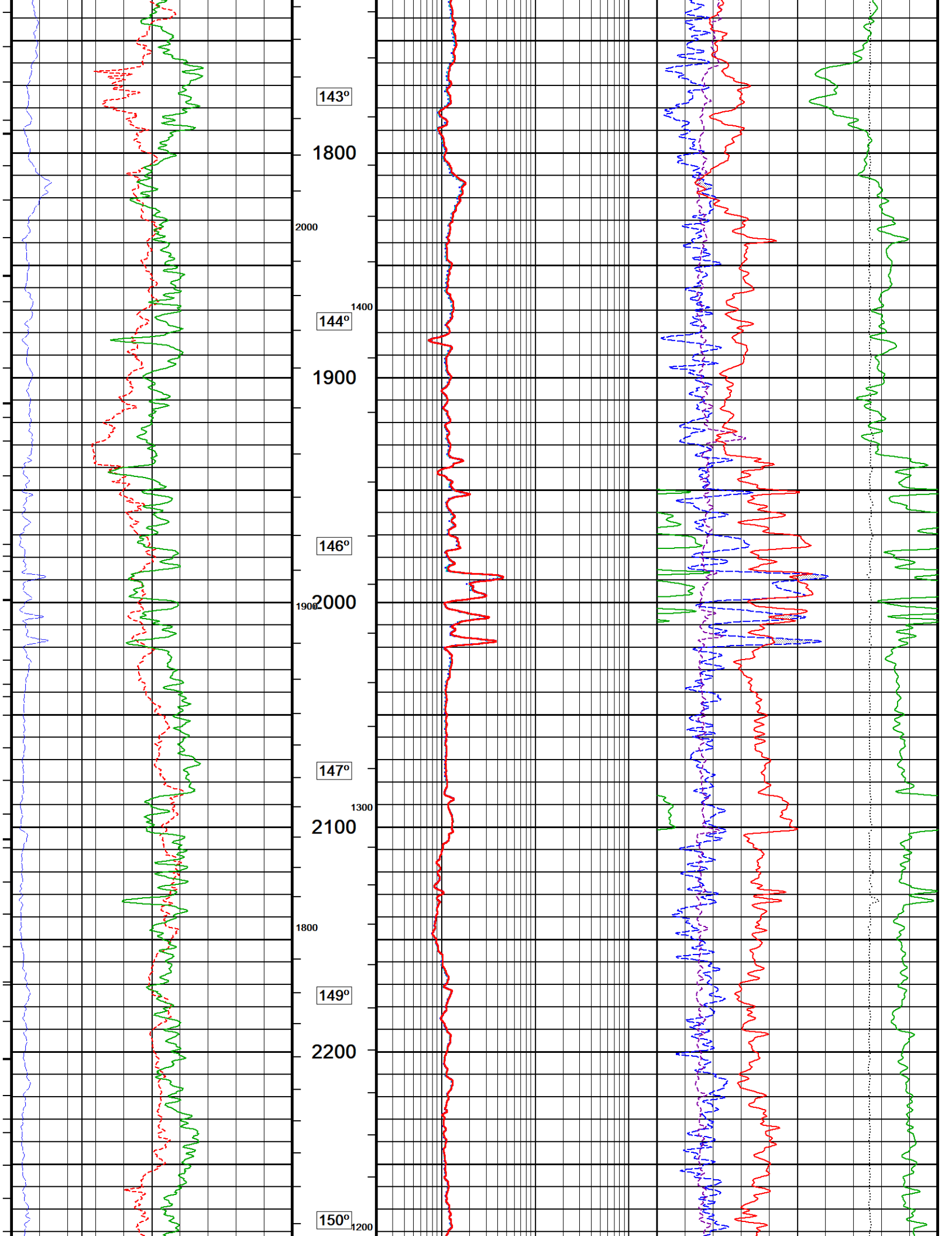


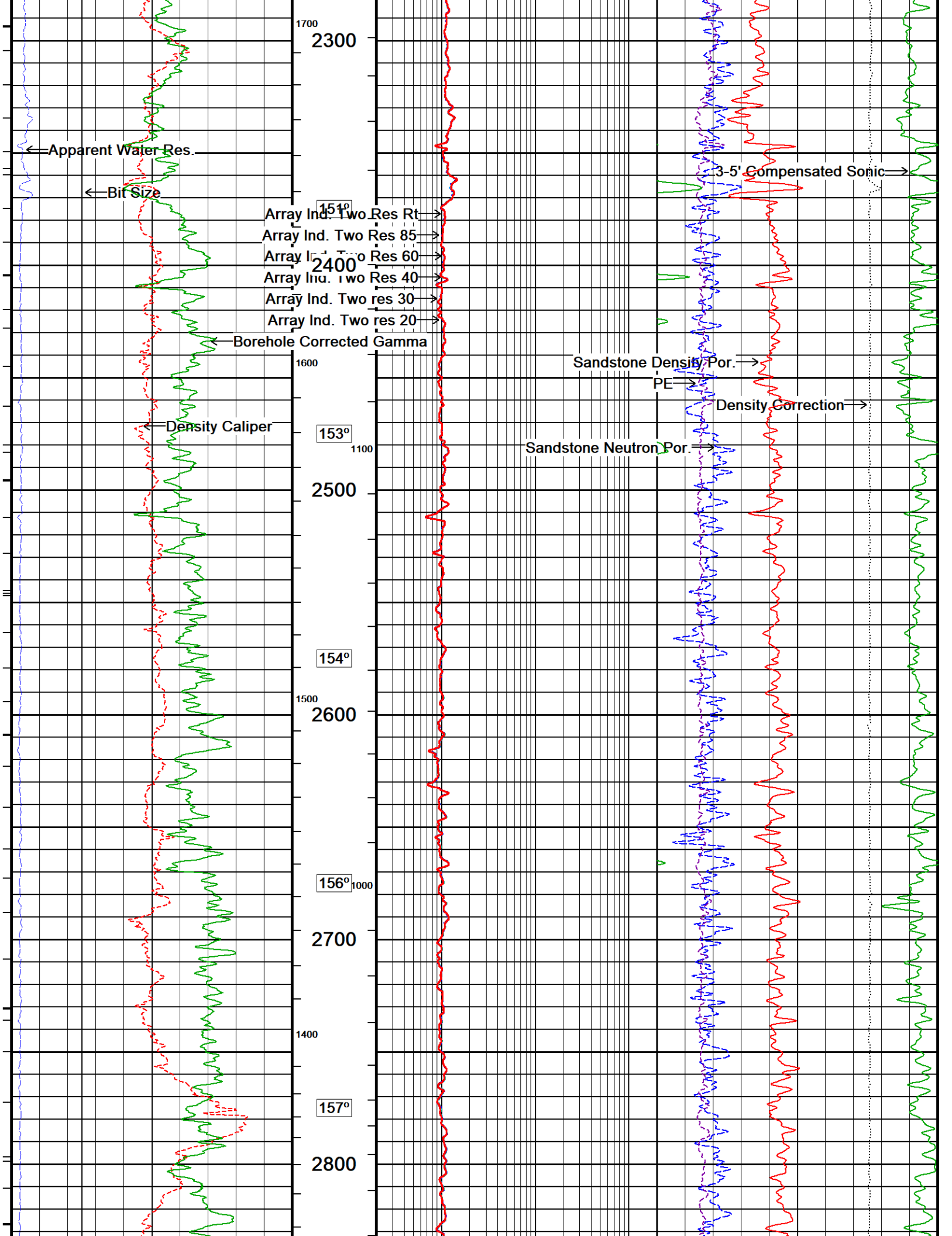
Depth Based Data - Maximum Sampling Increment 10.0cm
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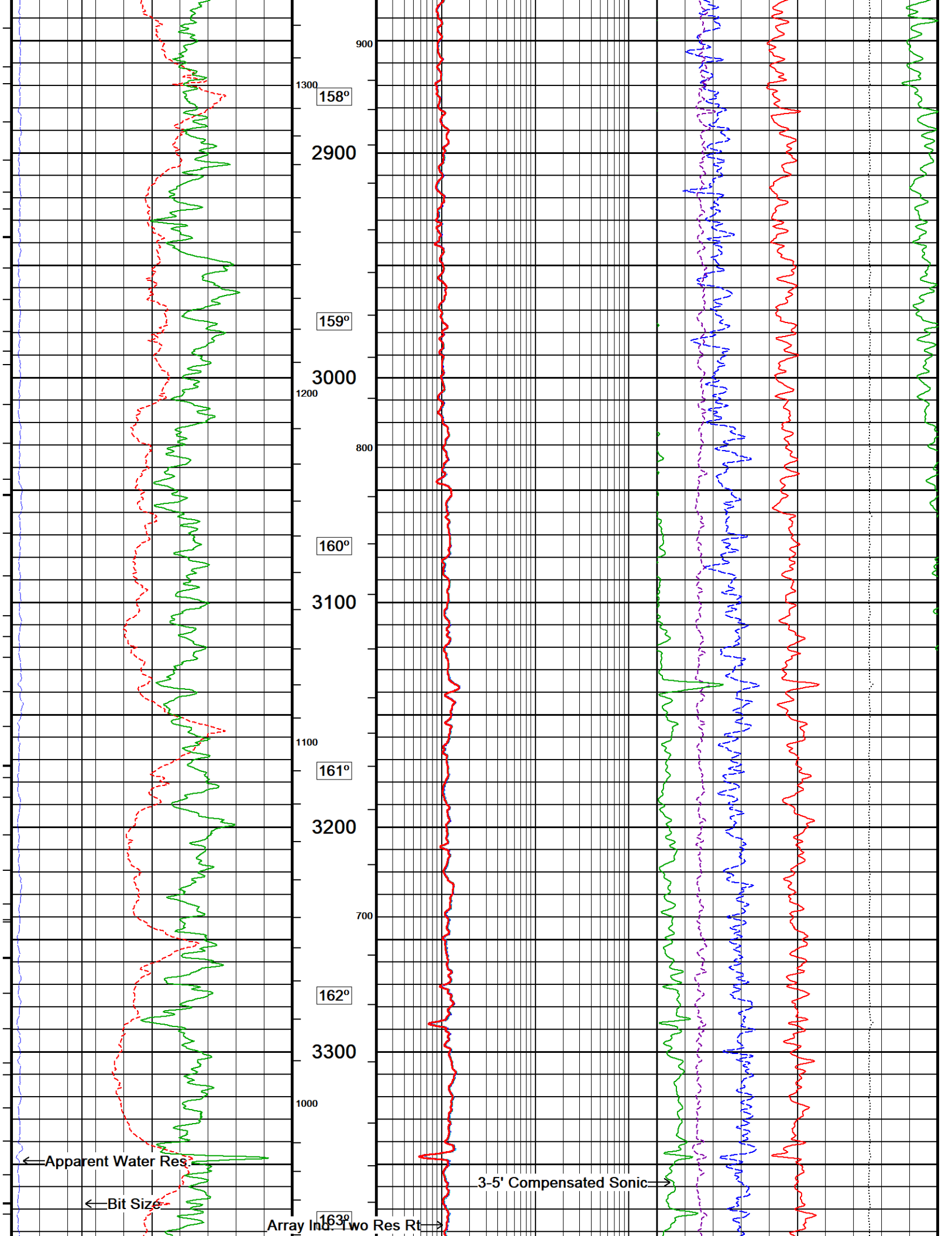
↑ **1 INCH MAIN PASS** ↑

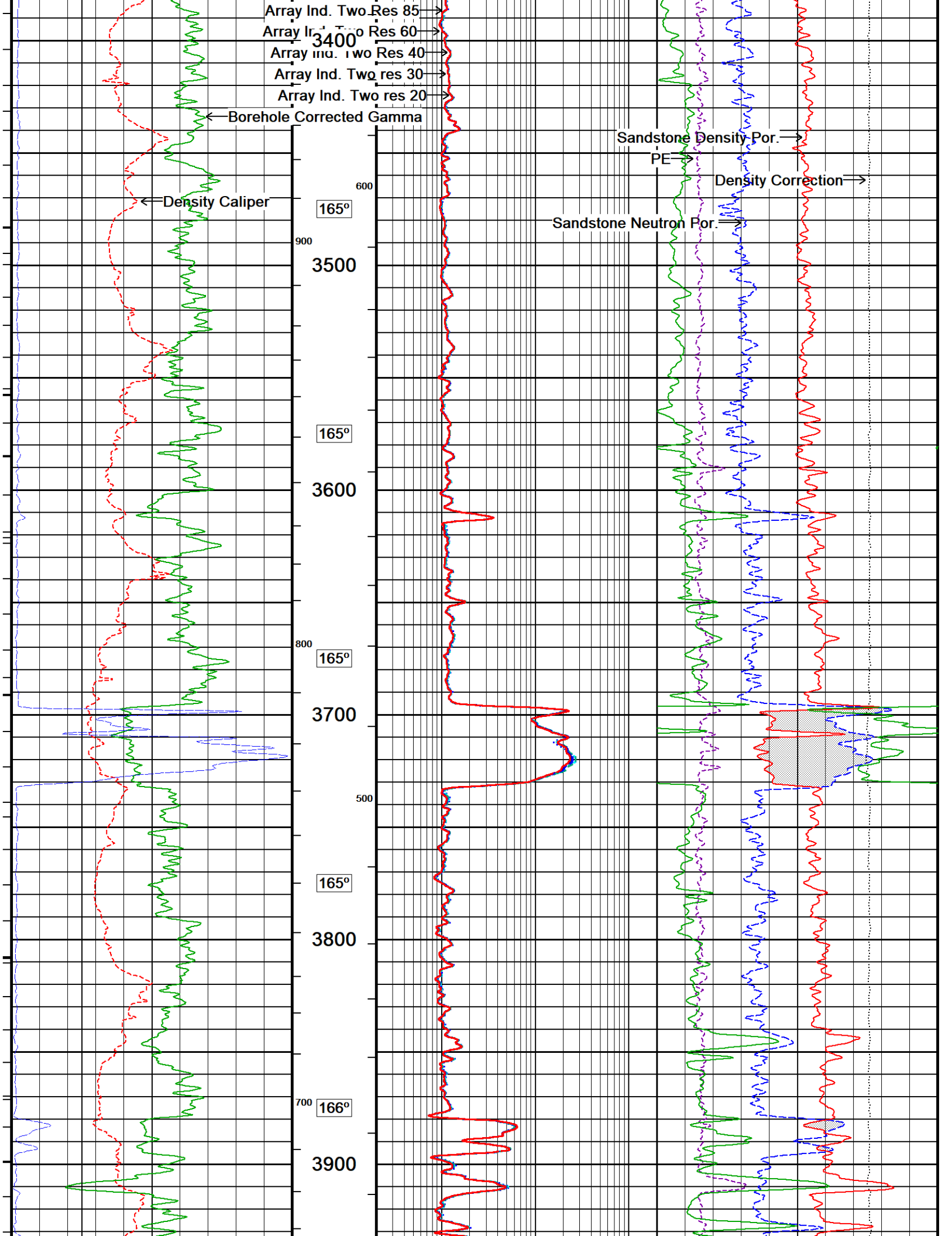


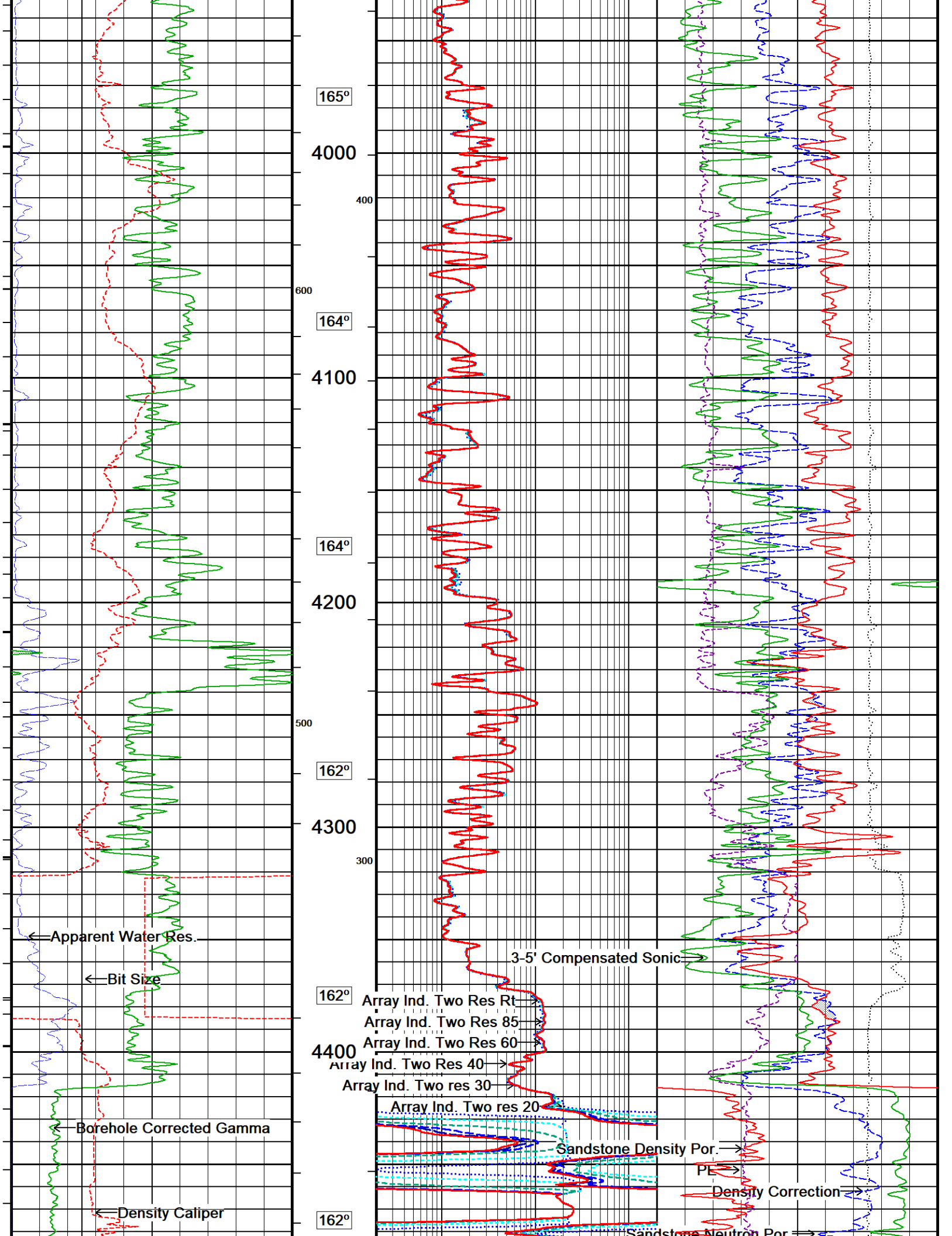


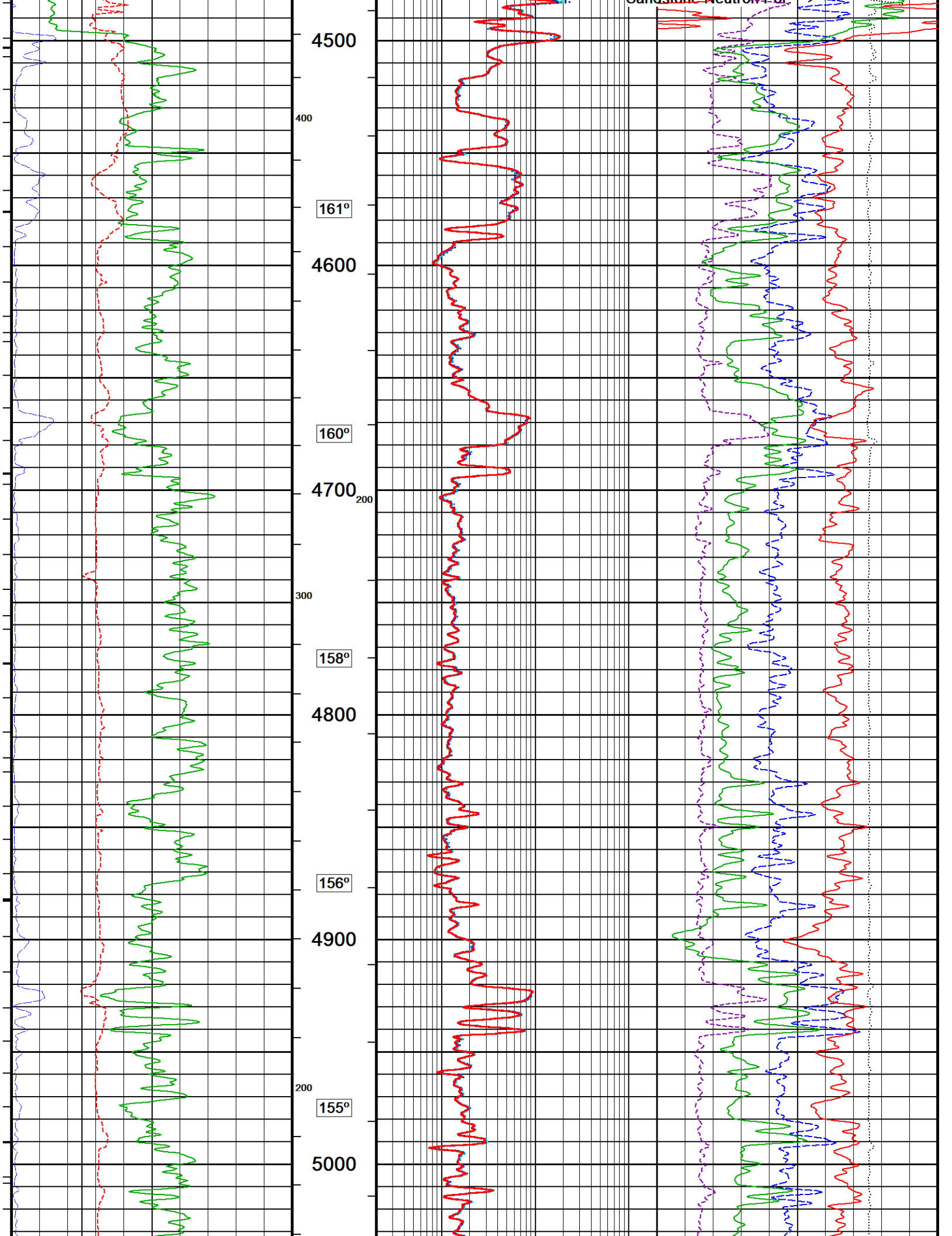


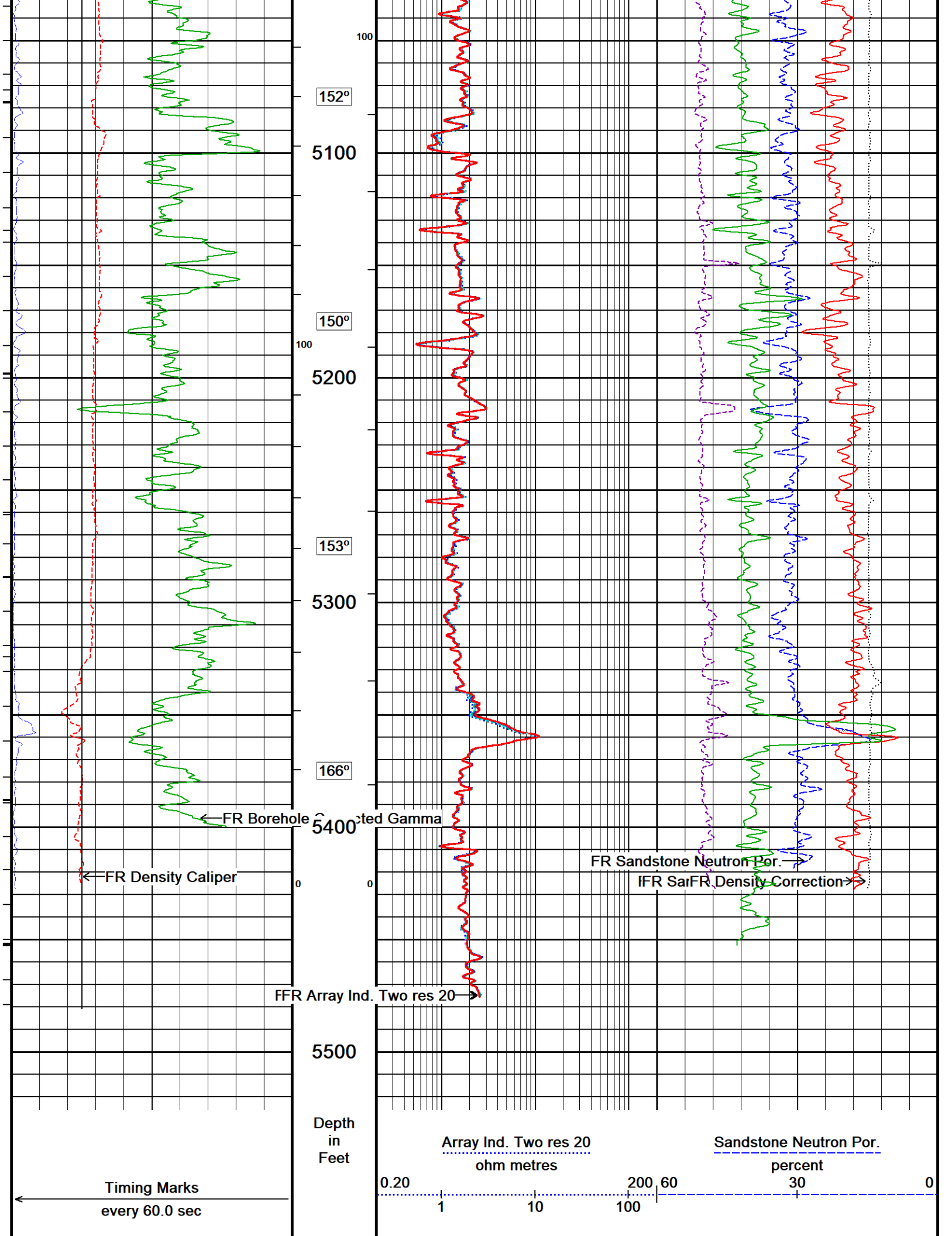


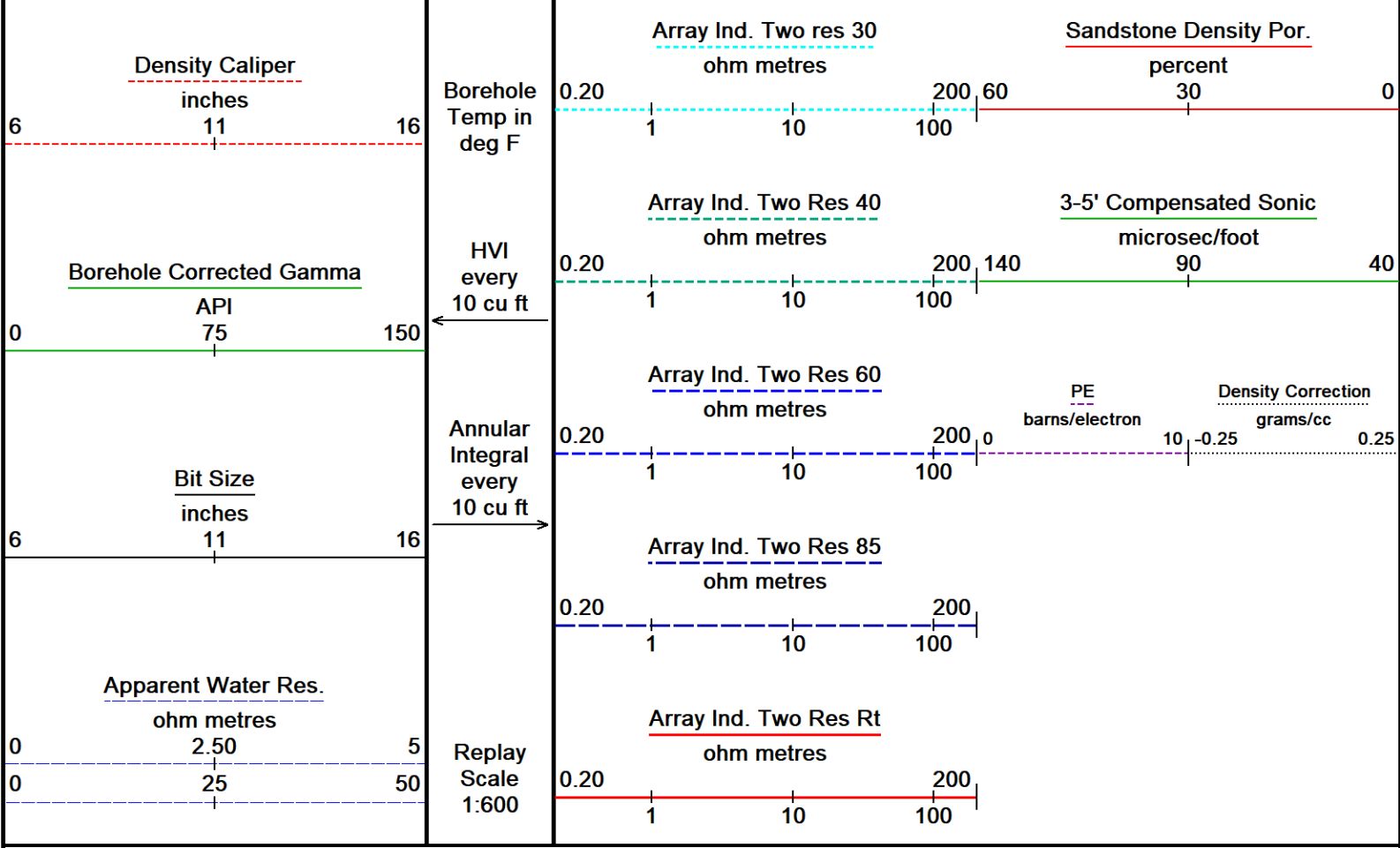












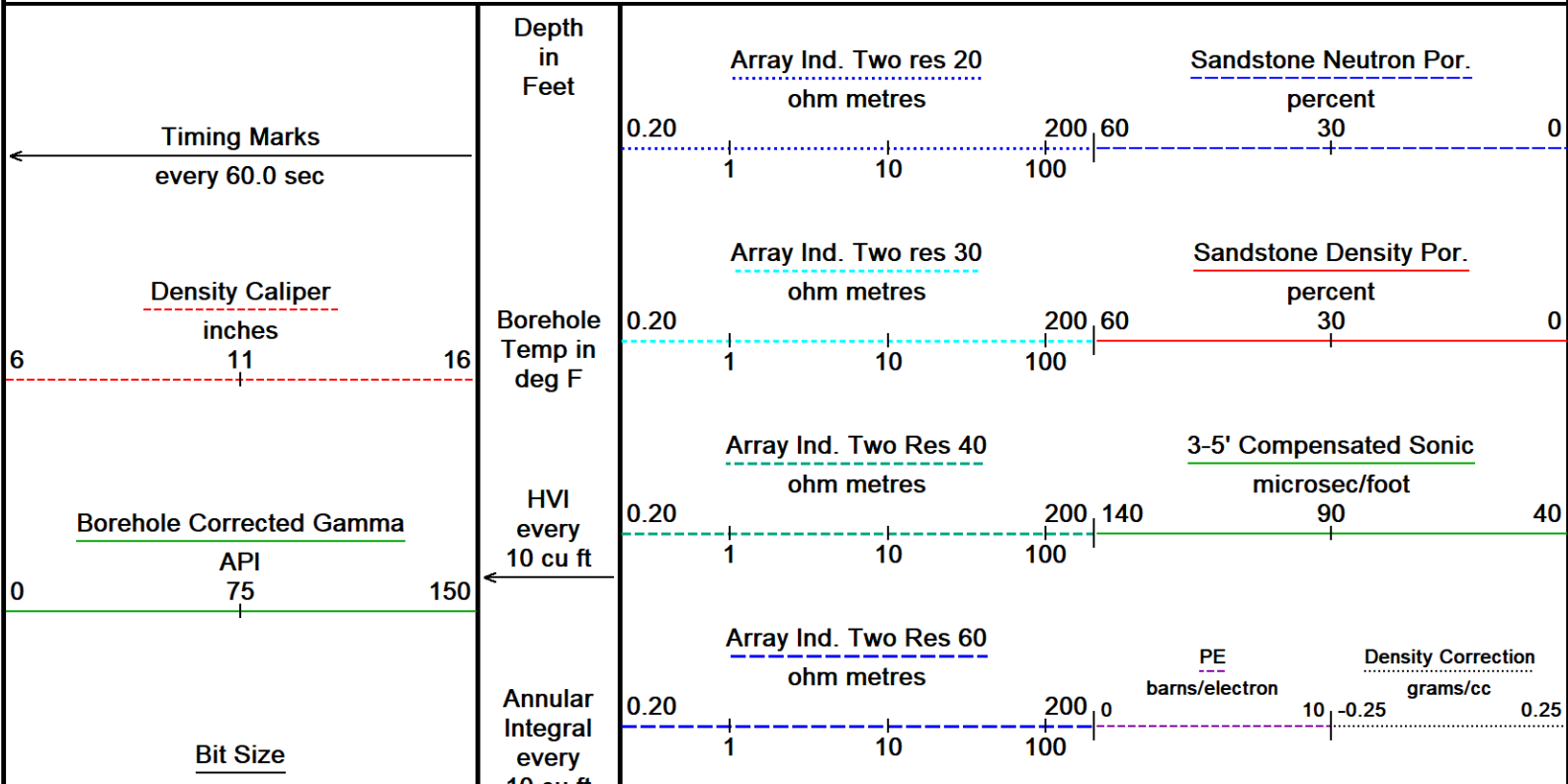
Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\LOGS\Snake River\Barlow 3-14\MAIN PASS.dta
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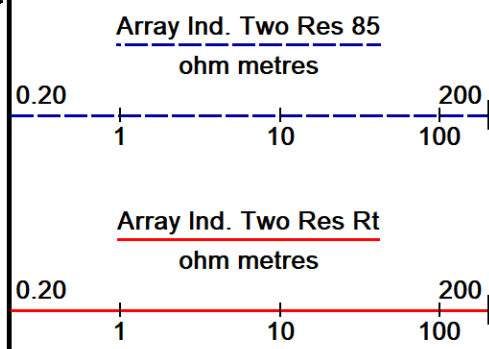
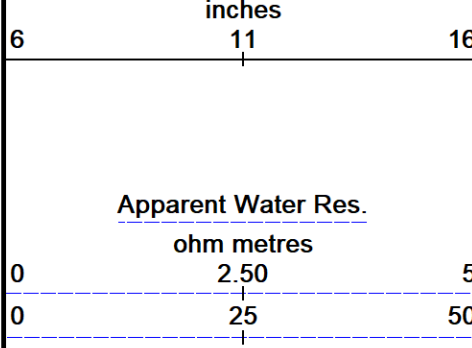
Plotted on 11-NOV-2022 05:12
 Recorded on 11-NOV-2022 03:27

5 INCH MAIN PASS

Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\LOGS\Snake River\Barlow 3-14\MAIN PASS.dta
 System Versions: Logged with 22.01.1627 Processed with 22.01.1627 Plotted with 22.01.1627

Plotted on 11-NOV-2022 05:12
 Recorded on 11-NOV-2022 03:27





Replay
Scale
1:240

1118

Casing
Shoe

1150

132°

1200

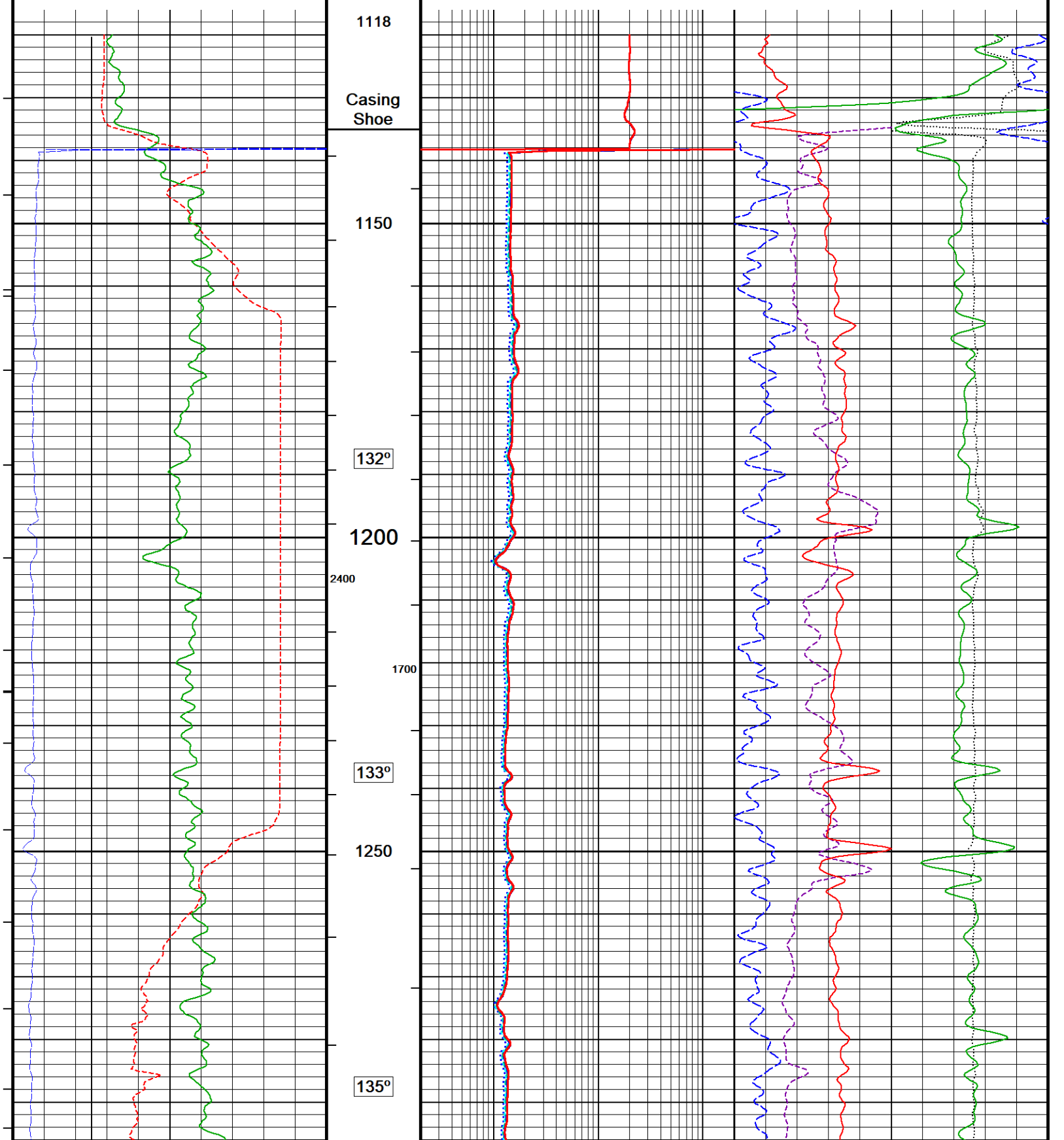
2400

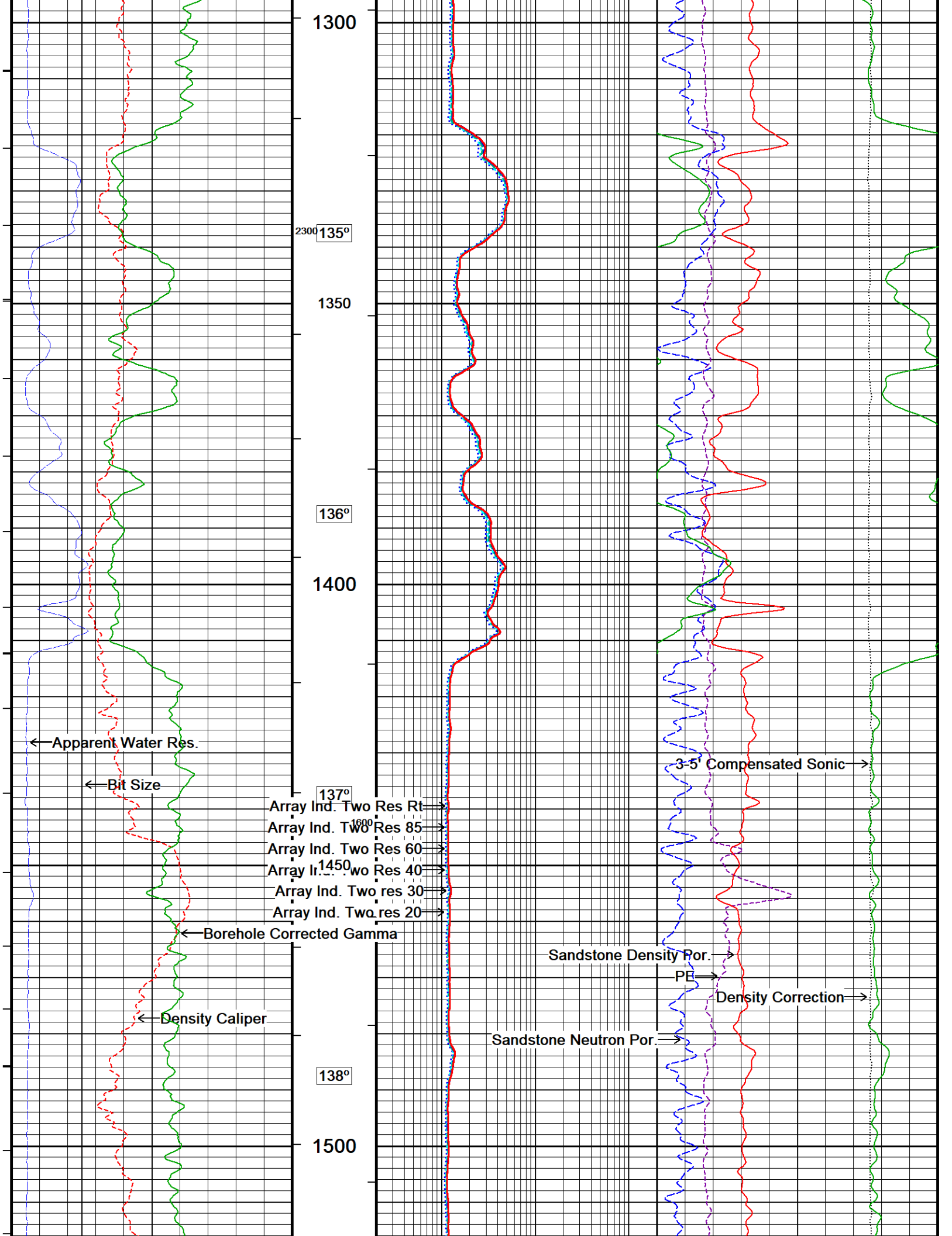
1700

133°

1250

135°





1300

2300 135°

1350

136°

1400

137°

138°

1500

← Apparent Water Res.

← 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 →

← Borehole Corrected Gamma

← Density Caliper

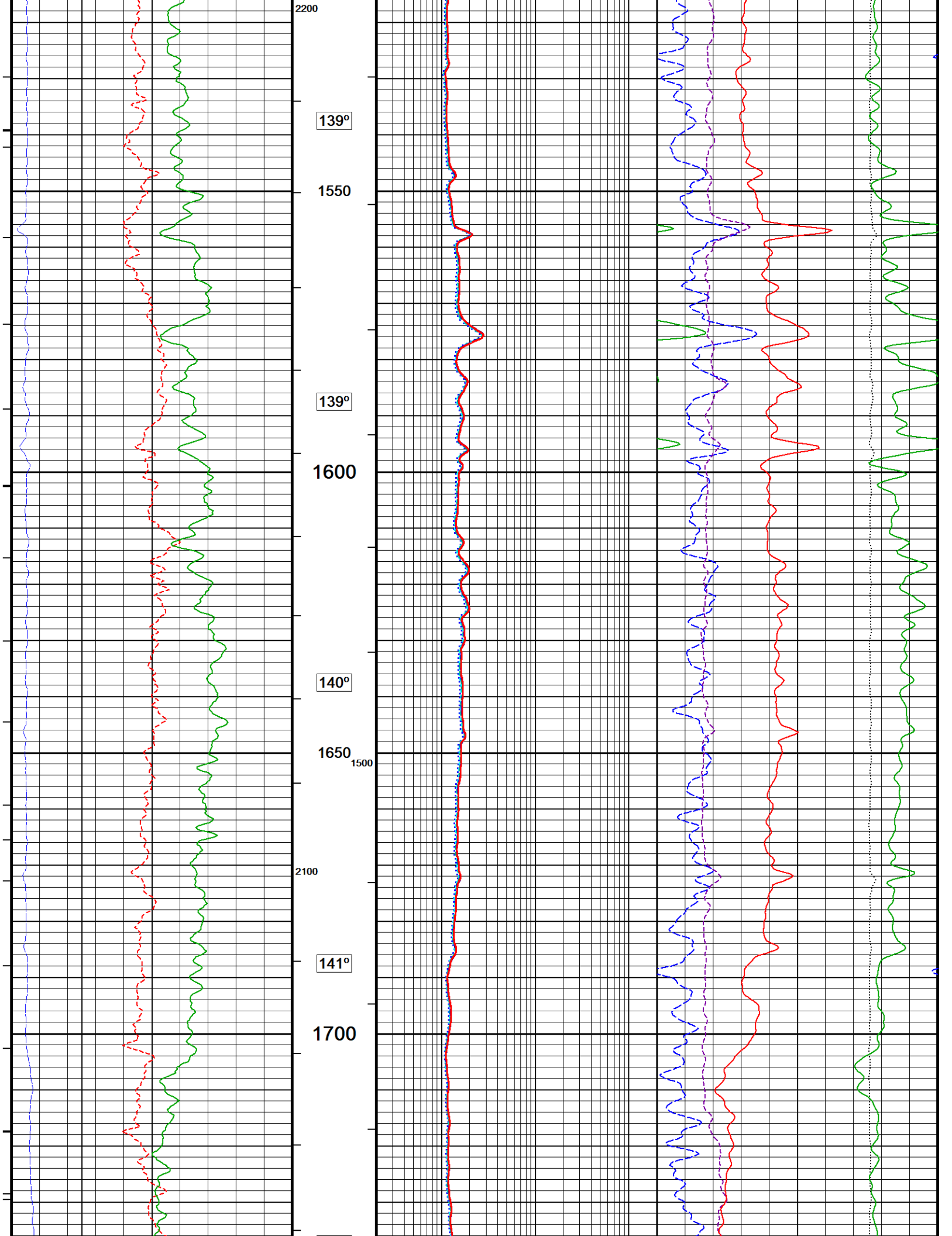
Sandstone Density Por. →

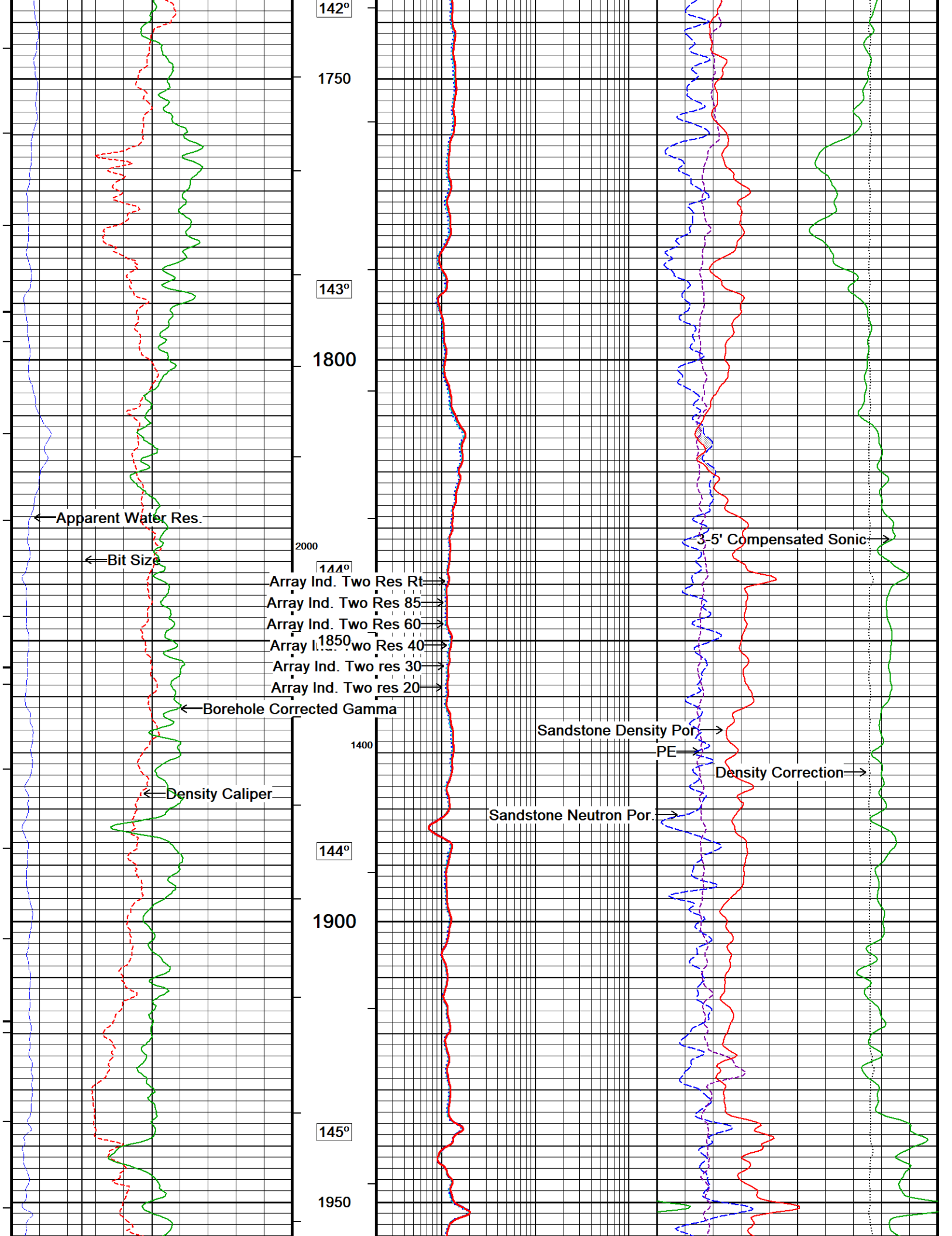
PE →

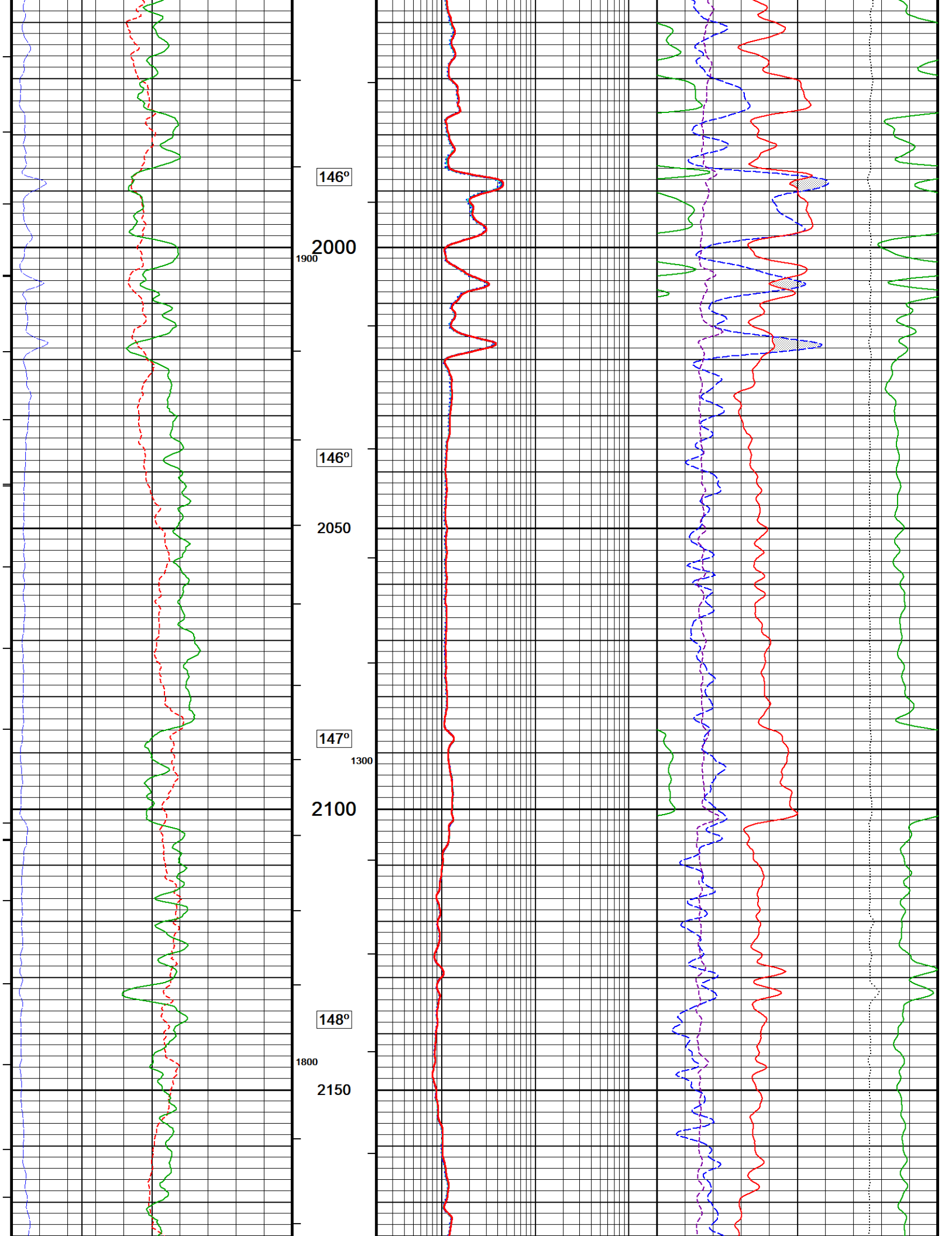
Density Correction →

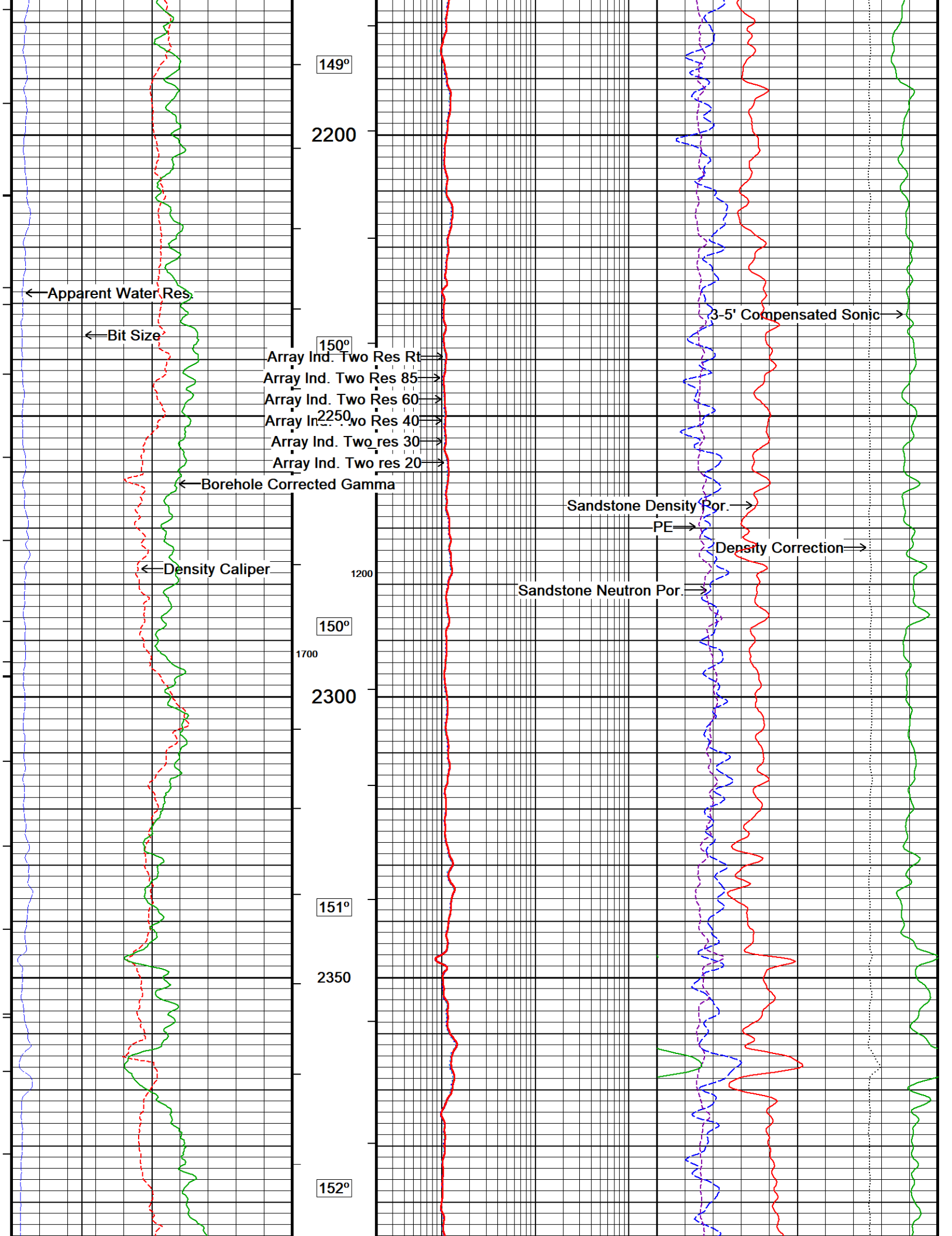
Sandstone Neutron Por. →

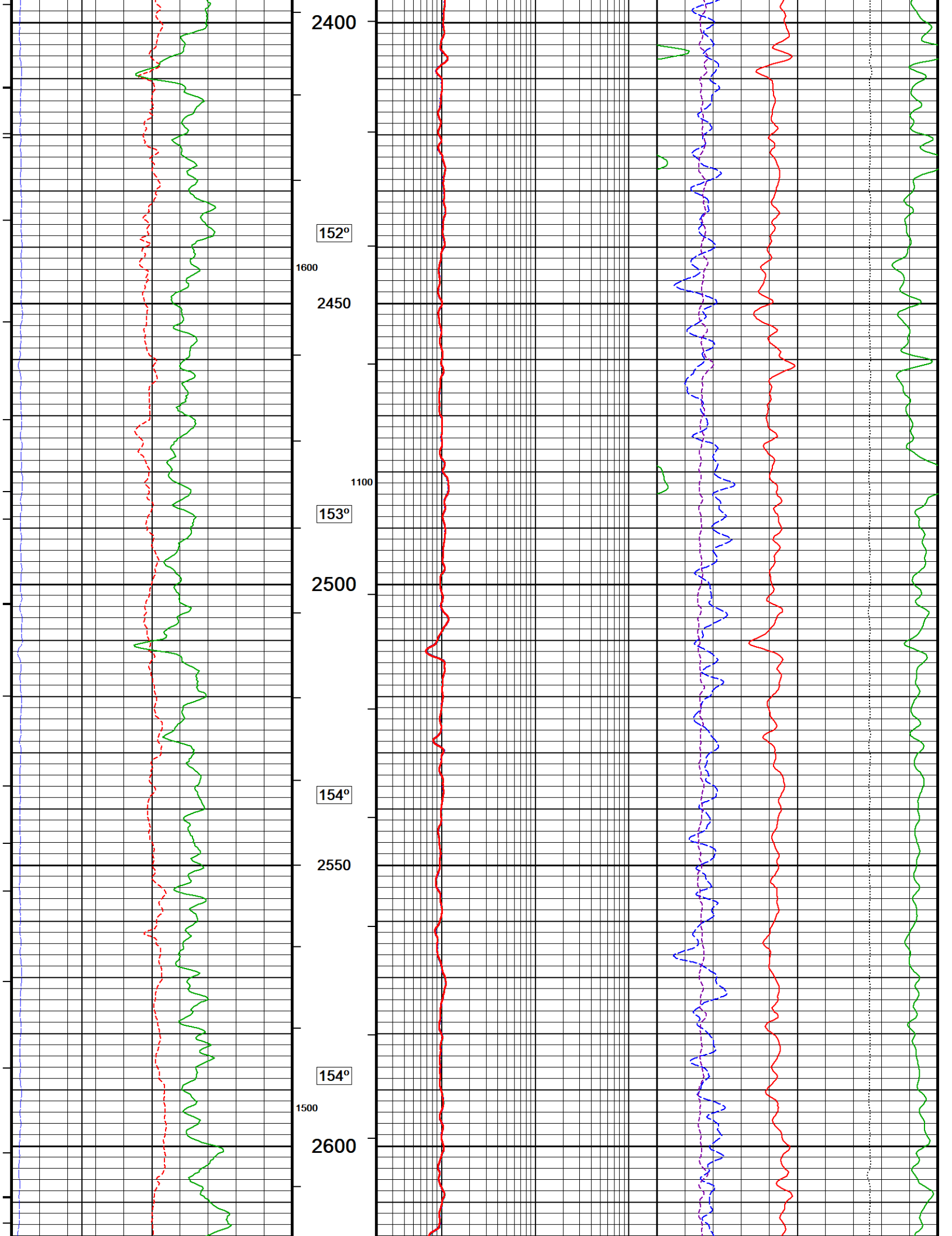
3-5 Compensated Sonic →

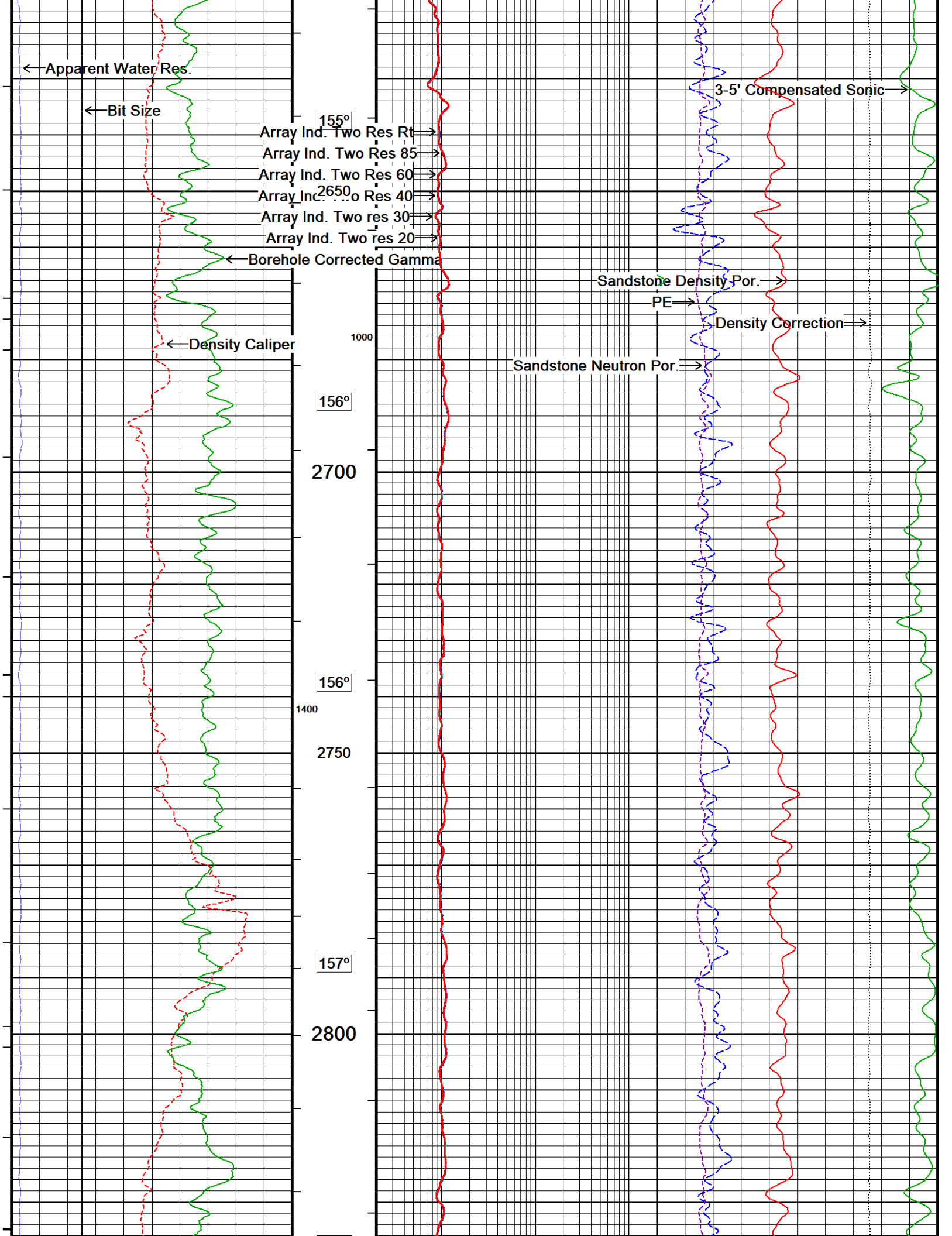


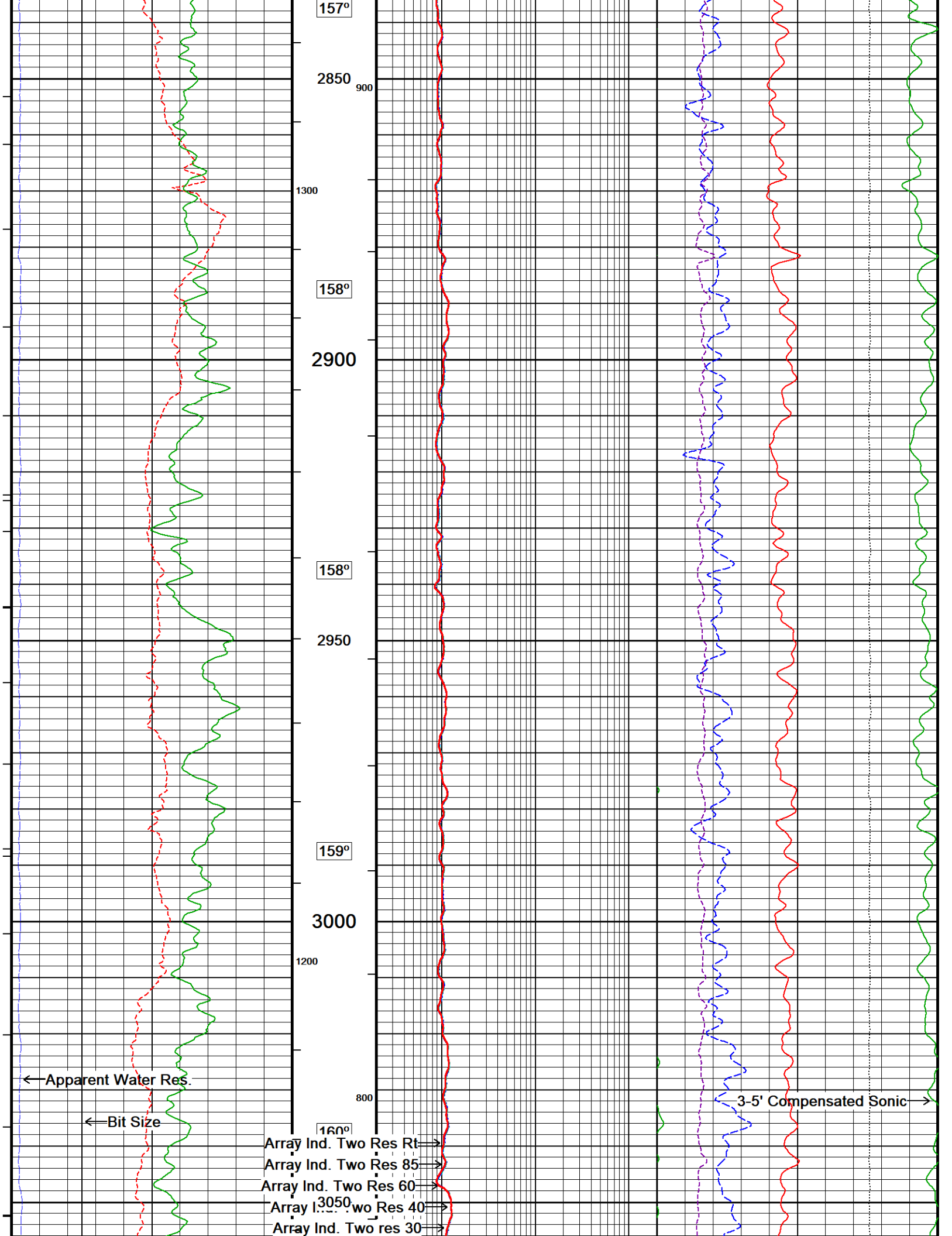


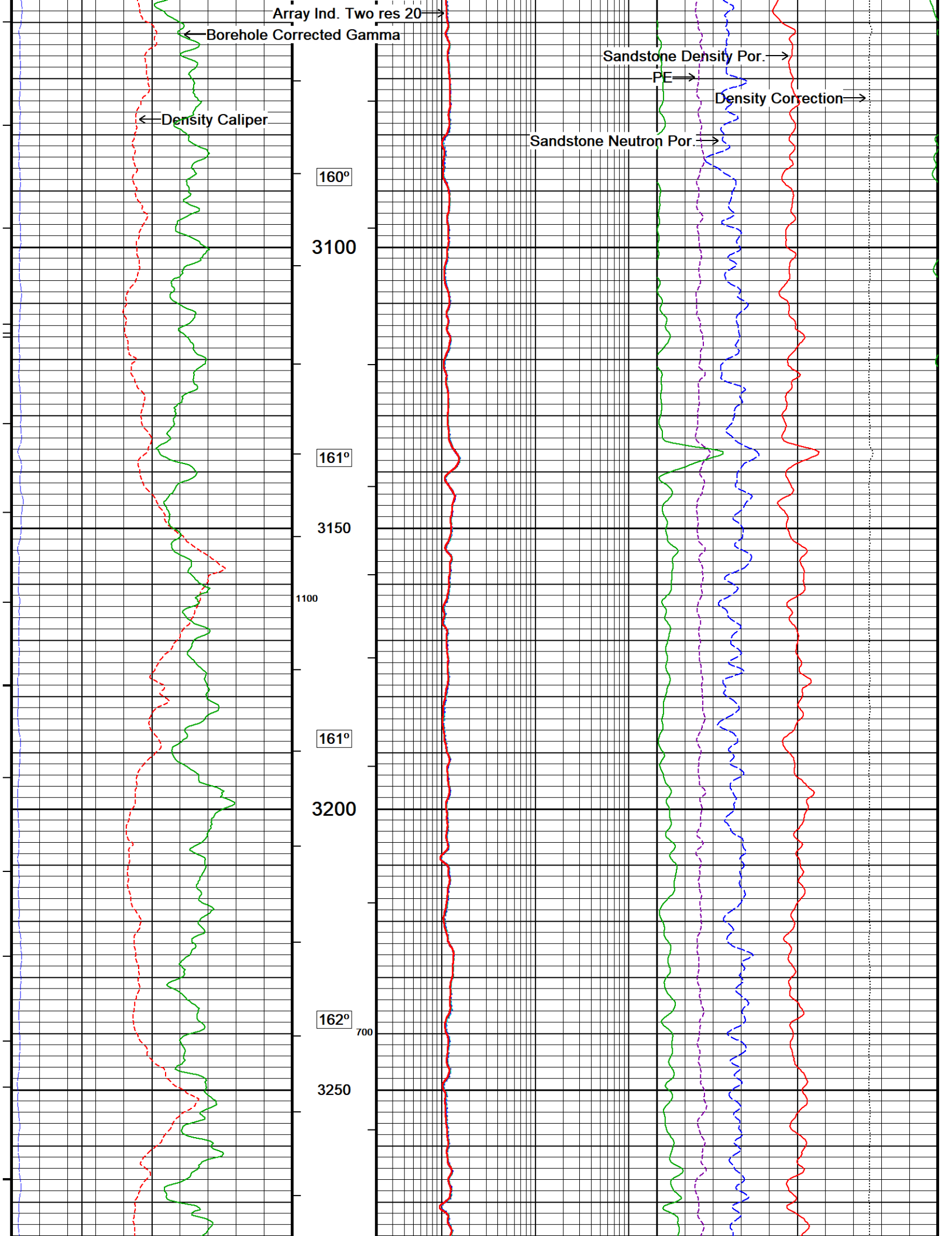


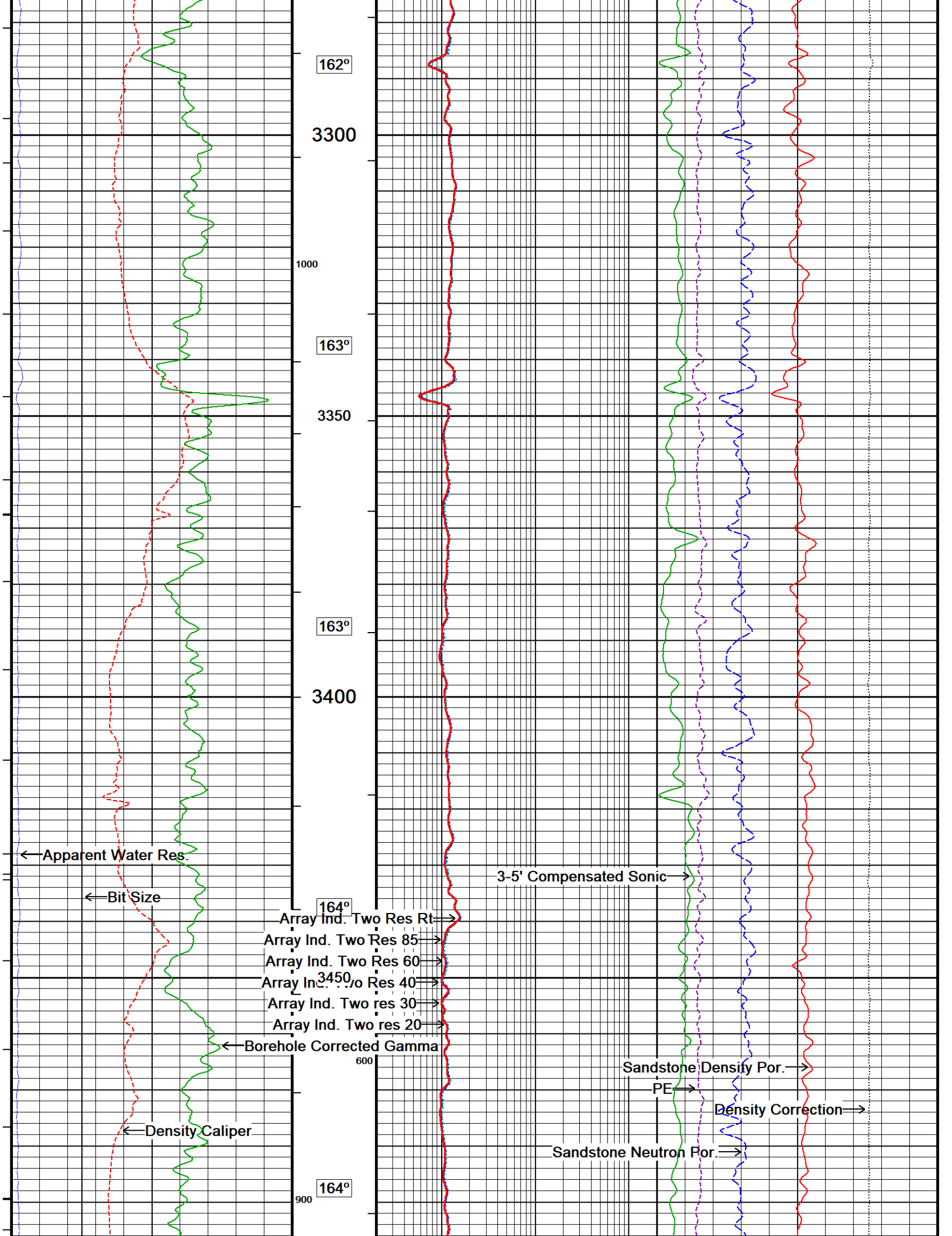


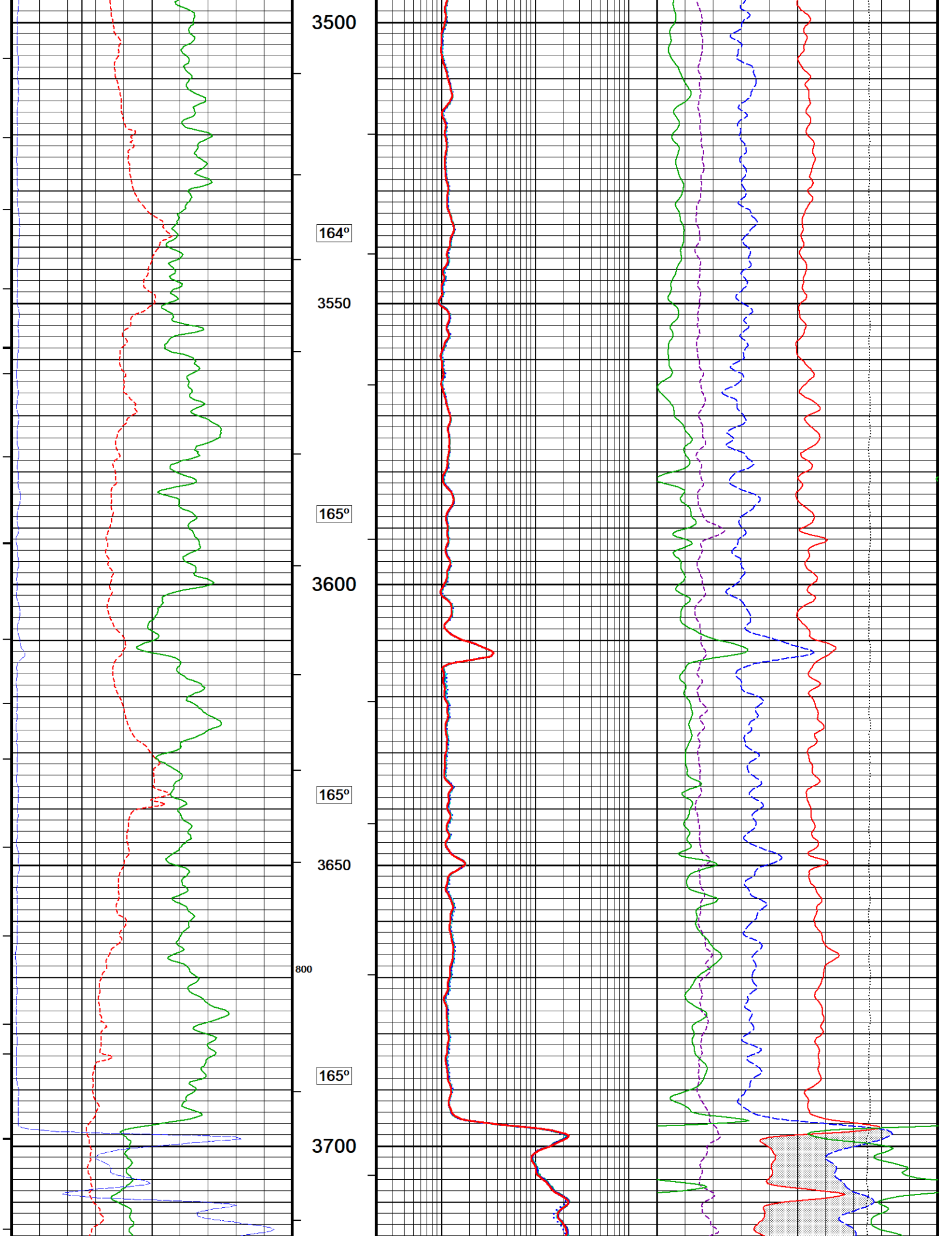


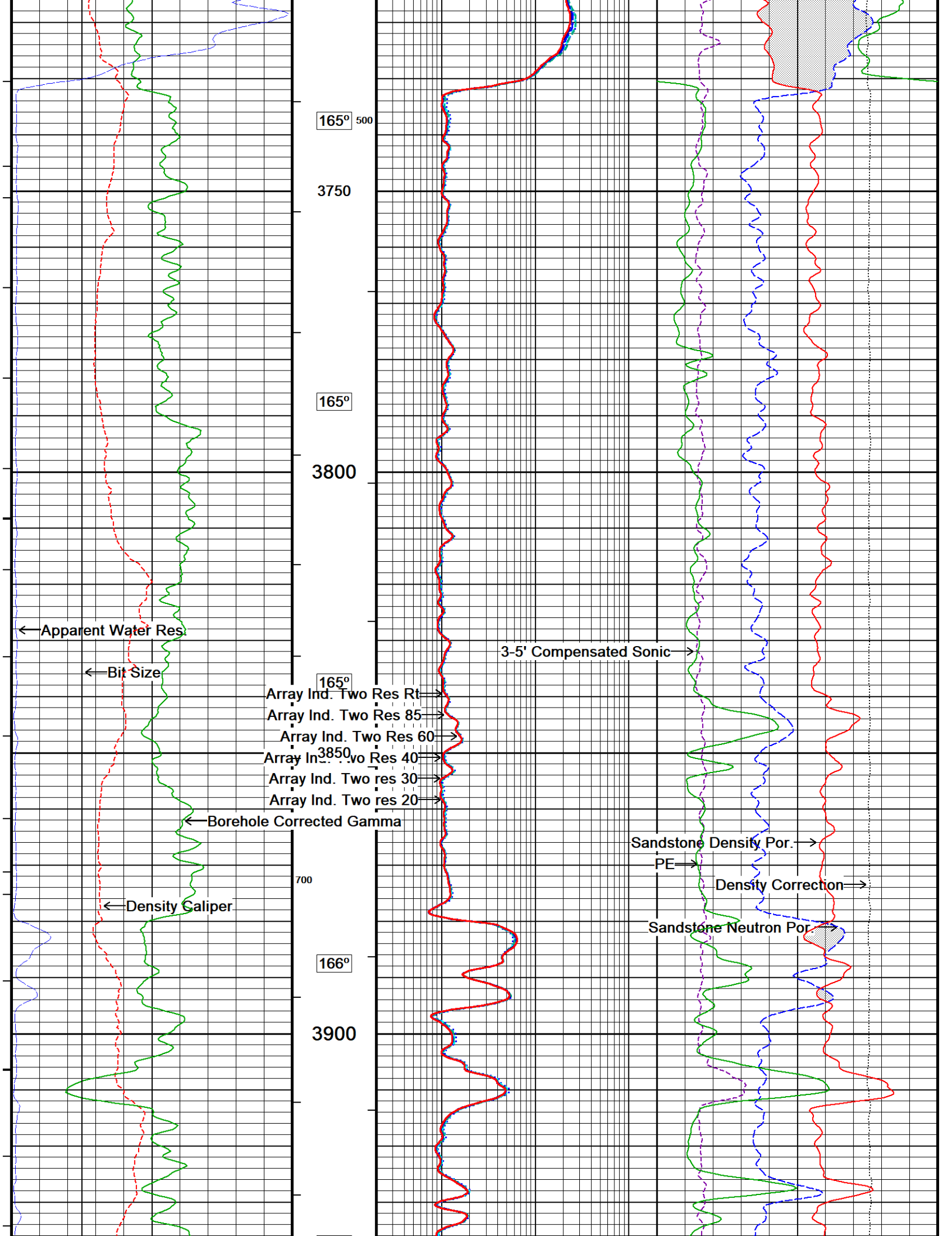












165° 500

3750

165°

3800

← Apparent Water Res.

← Bit Size

3-5' Compensated Sonic →

165° 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 →

← Borehole Corrected Gamma

700

← Density Caliper

Sandstone Density Por. →

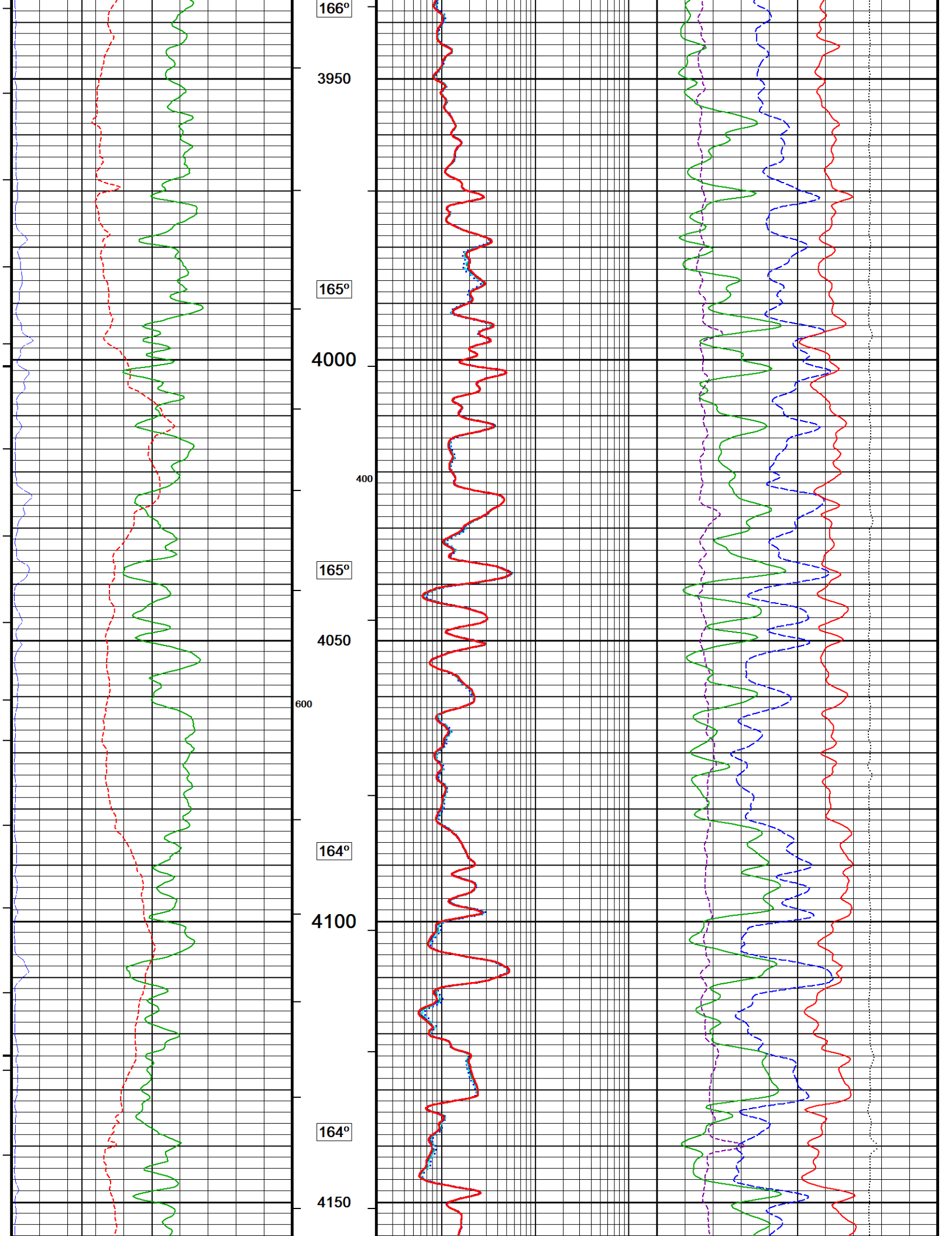
PE →

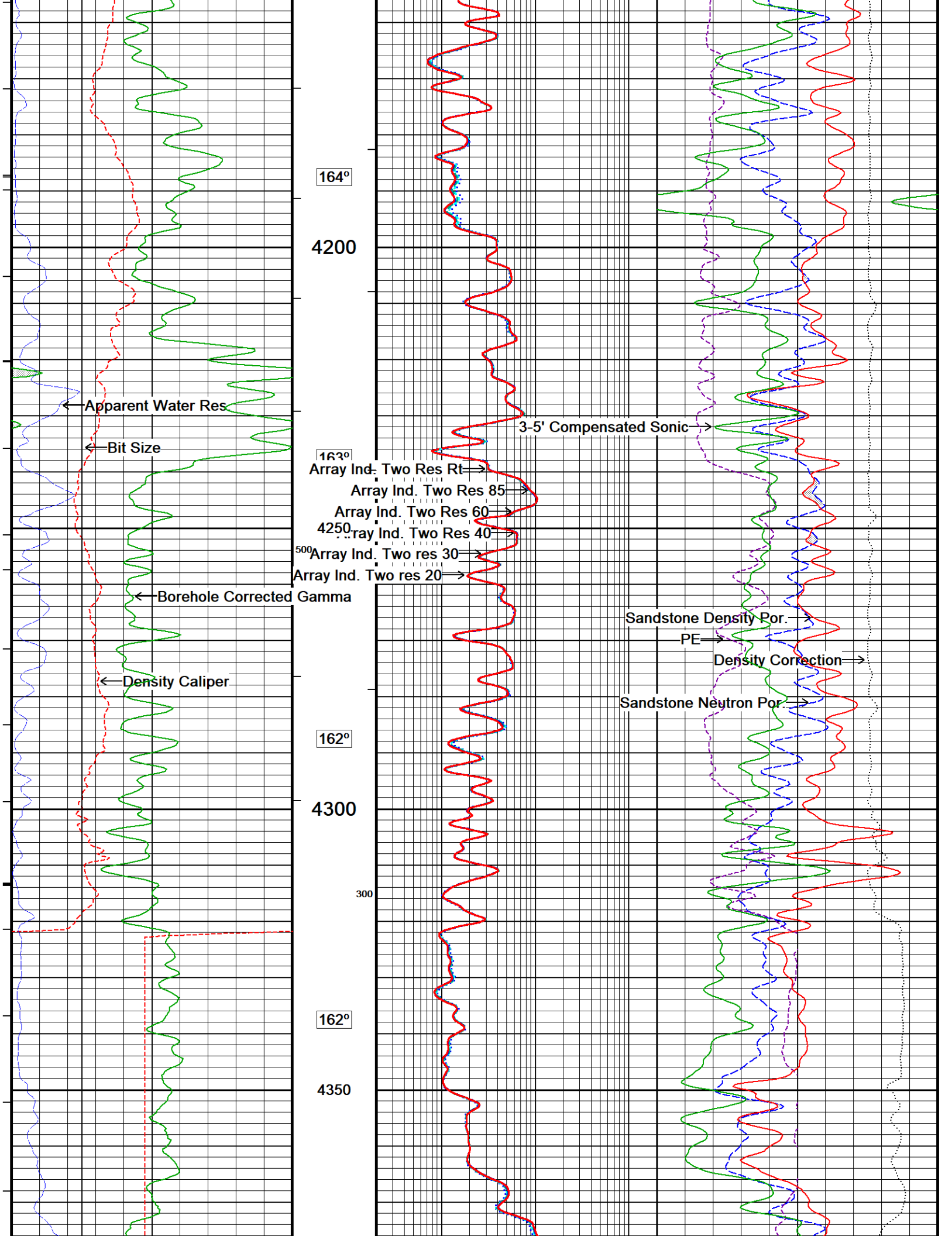
Density Correction →

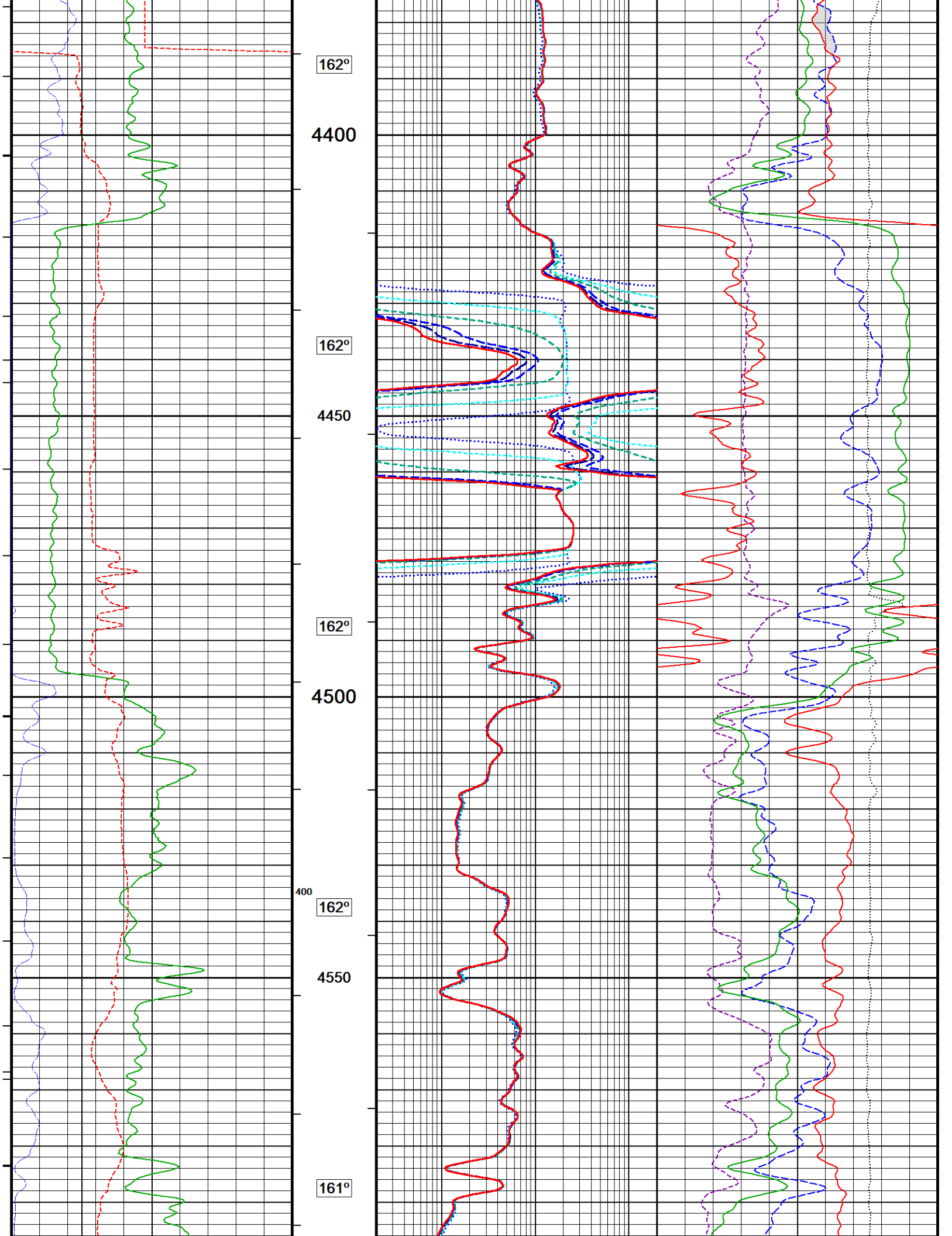
Sandstone Neutron Por. →

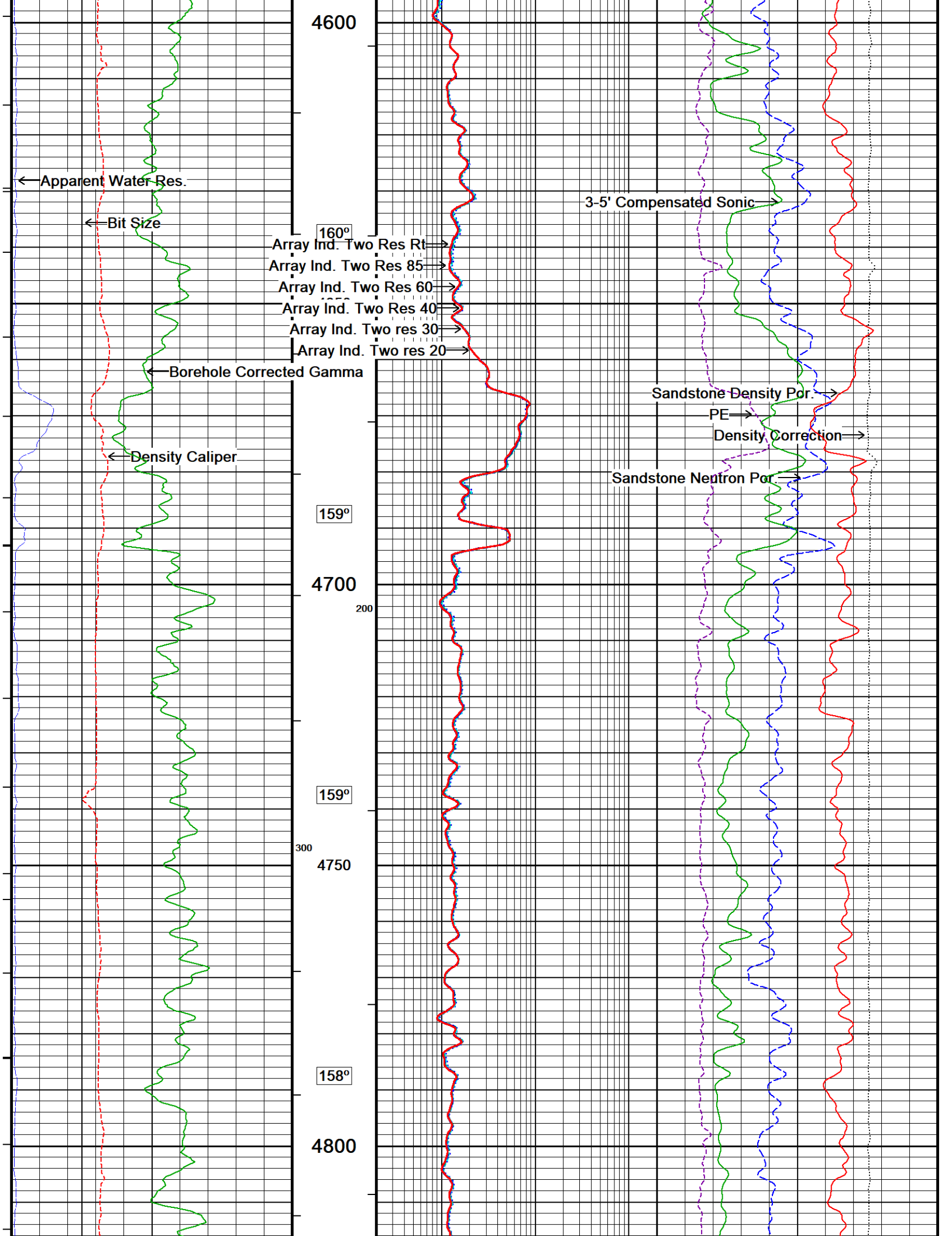
166°

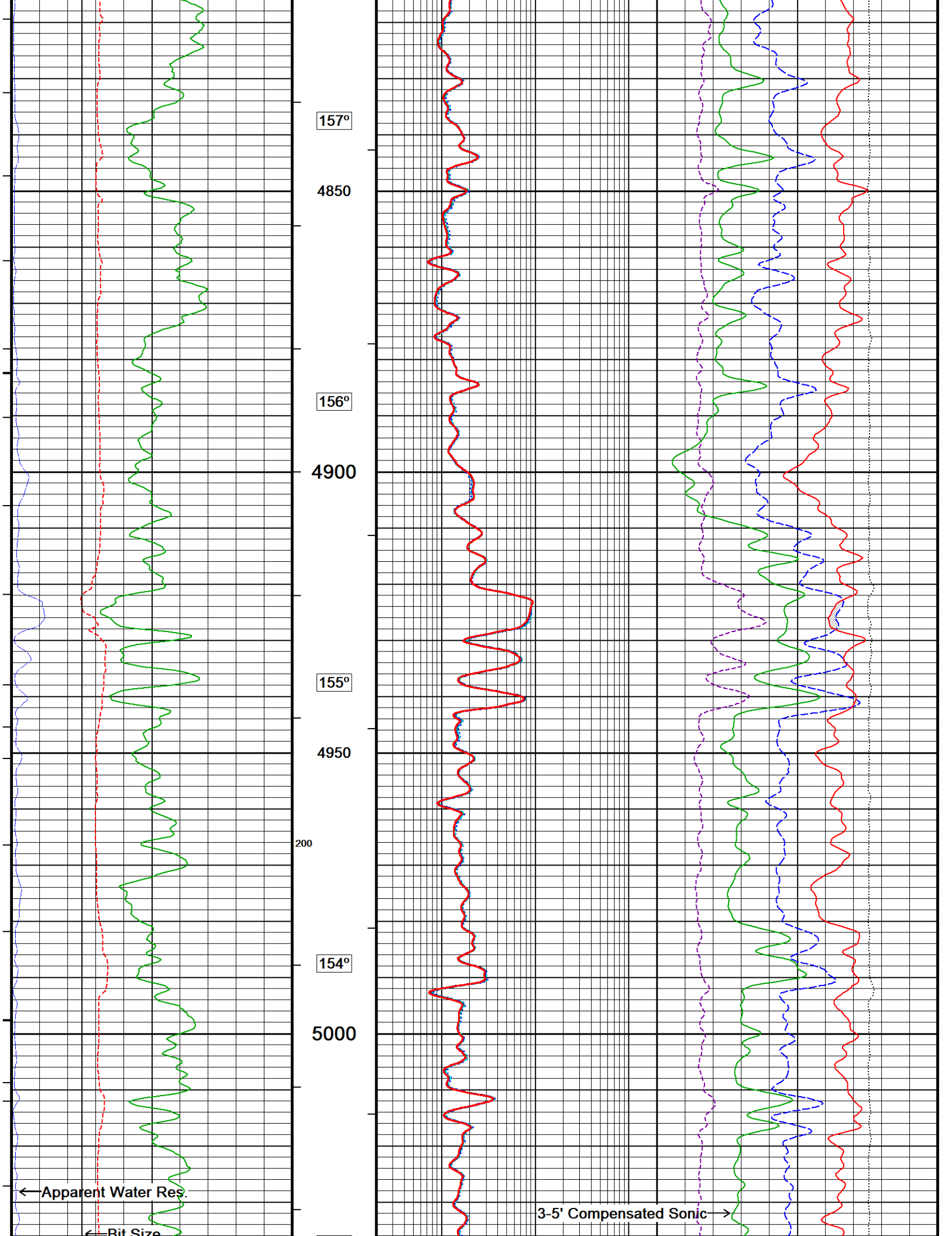
3900











157°

4850

156°

4900

155°

4950

200

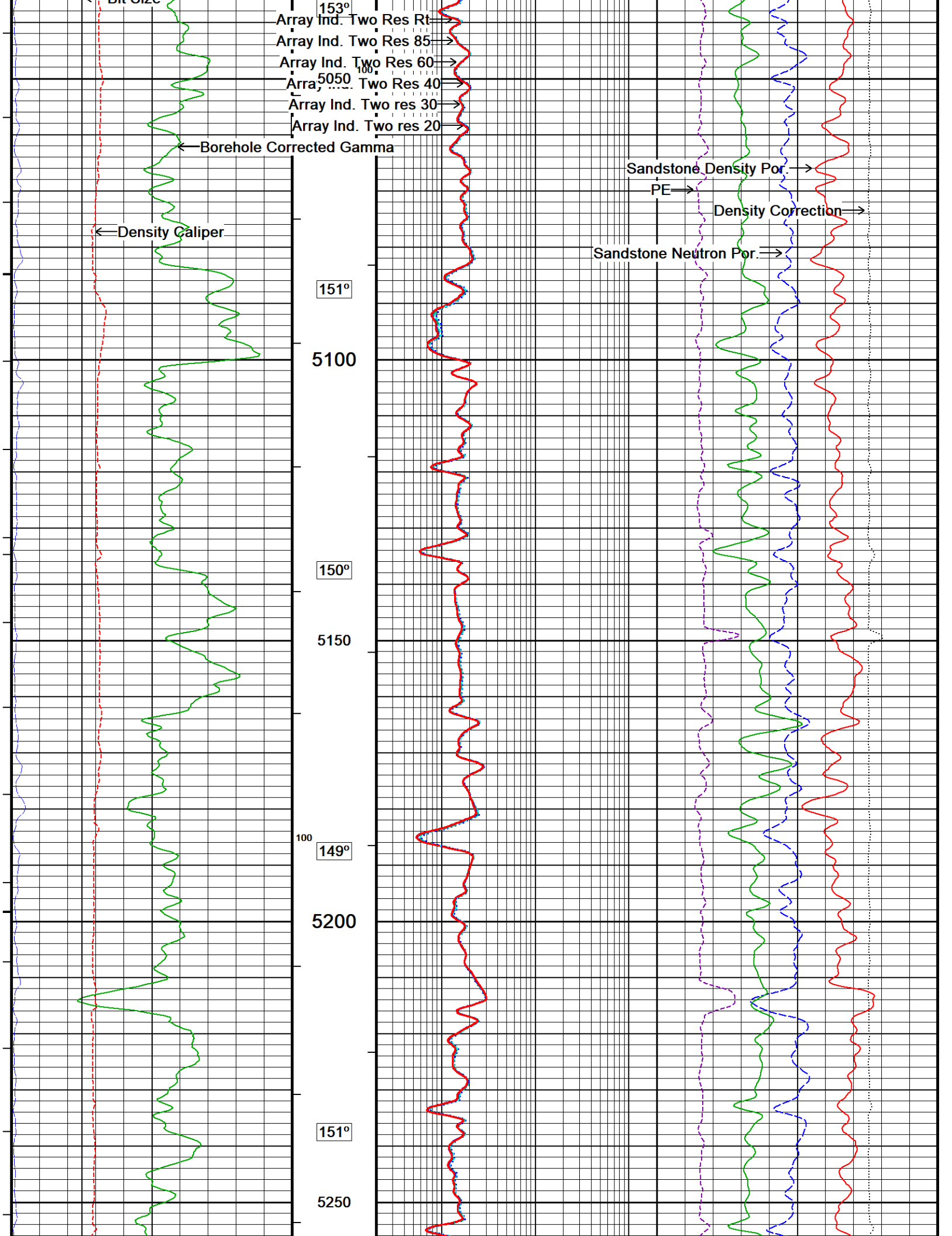
154°

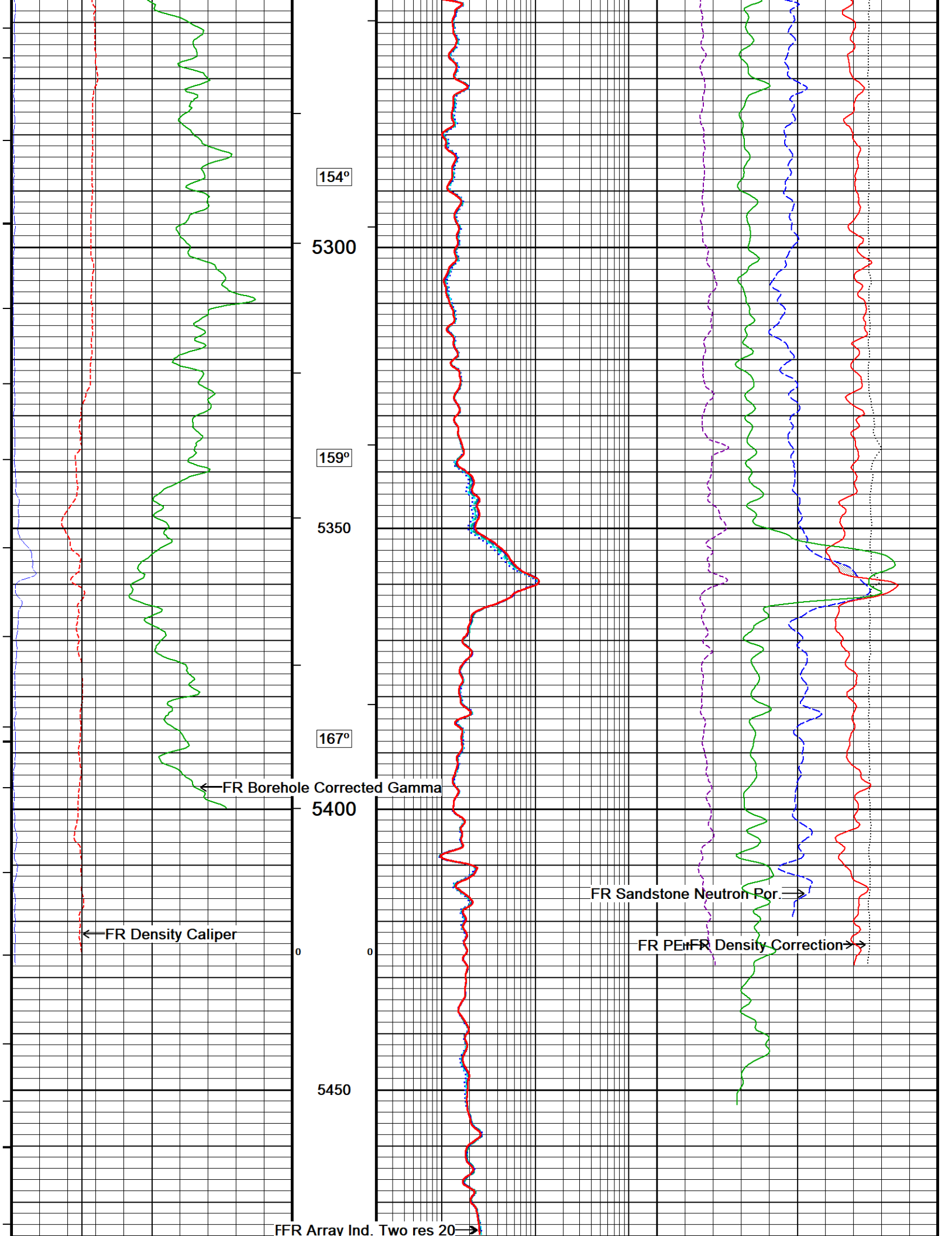
5000

← Apparent Water Res.

← Rit Size

3-5' Compensated Sonic →





154°

5300

159°

5350

167°

← FR Borehole Corrected Gamma

5400

← FR Density Caliper

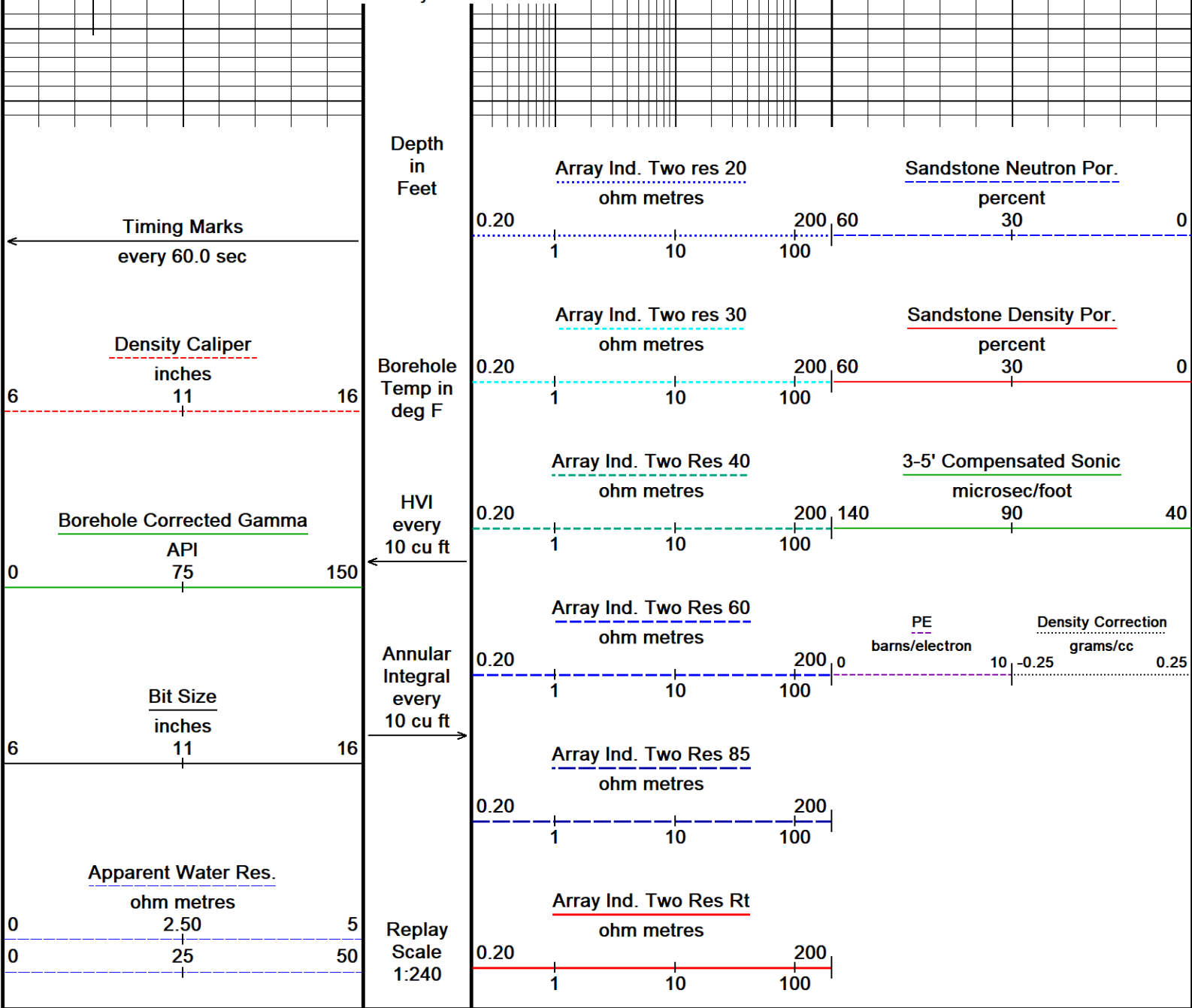
0

FR Sandstone Neutron Por. →

FR PE → FR Density Correction →

5450

FFR Array Ind. Two res 20 →



Depth Based Data - Maximum Sampling Increment 10.0cm
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↑ 5 INCH MAIN PASS ↑

BEFORE SURVEY CALIBRATION

C:\LOGS\Snake River\Barlow 3-14\MAIN PASS.dta

General Constants All 000

Last Edited on 10-NOV-2022,17:41

General Parameters
 Mud Resistivity 2.680 ohm-metres
 Mud Resistivity Temperature 75.000 degrees F
 Water Level 0.000 feet
 Borehole Fluid Processing Wet Hole

Hole/Annular Volume and Differential Caliper Parameters
 HVOL Method Single Caliper
 HVOL Caliper 1 Density Caliper
 HVOL Caliper 2 N/A
 Annular Volume Diameter 5.500 inches
 Caliper for Differential Caliper Density Caliper

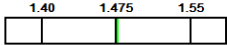
Rwa Parameters	Base Density Porosity
Porosity used	Array Ind. Two Res Rt
Resistivity used	
RWA Constant A	0.620
RWA Constant M	2.150
SW/APOR Tool Source	0.000

Gamma Calibration MGS-D.A 184

Field Calibration on 07-NOV-2022 10:01

	Measured	Calibrated (API)
Background	135	91
Calibrator (Gross)	902	610
Calibrator (Net)	767	519

Gamma Calibration Tolerances MGS-D.A 184

Ratio 1.479  Counts/API

The tolerance bar shows a range from 1.40 to 1.55. The measured ratio of 1.479 is indicated by a green vertical line within the bar.

Gamma Constants MGS-D.A 184

Last Edited on 11-NOV-2022,04:26

Gamma Calibrator Number	GRCC119	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.31	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MGS-D.A 184

Field Calibration on 03-AUG-2022 11:17

	Measured	Calibrated(Deg F)
Lower	32.00	32.00
Upper	212.00	212.00

High Resolution Temperature Constants MGS-D.A 184

Last Edited on 03-AUG-2022 11:16

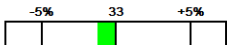
Pre-filter Length 11

Neutron Calibration MDN-C.A 533

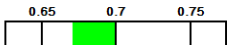
Base Calibration on 05-NOV-2022 14:46
Field Check on 07-NOV-2022 09:36

Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near	Far
	2884 89	3714	110
Ratio	32.585	33.764	
Field Calibrator at Base		Calibrated (cps)	
		2164	3228
Ratio		0.671	
Field Check		Calibrated (cps)	
		2116	3147
Ratio		0.672	

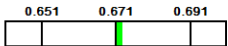
Neutron Calibration Tolerances MDN-C.A 533

Ratio 32.585  33

The tolerance bar shows a range from -5% to +5% around a target of 33. The measured ratio of 32.585 is indicated by a green vertical line.

Base Check 0.671  0.7

The tolerance bar shows a range from 0.65 to 0.75. The measured ratio of 0.671 is indicated by a green vertical line.

Field Check 0.672  0.671

The tolerance bar shows a range from 0.651 to 0.691. The measured ratio of 0.672 is indicated by a green vertical line.

Neutron Constants MDN-C.A 533

Last Edited on 11-NOV-2022,04:26

Neutron Source Id	P44385B	
Neutron Jig Number	NJ5735	
Air Hole Processing	Modified Ratio	
Caliper Source for Processing	Bit Size	
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	Applied	

Sonic Constants MSS-D.A 401

Last Edited on 10-NOV-2022,17:44

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	83.12	micro-sec/ft

Sonde Mode	Full Waveform
Hole Type	Open Hole

Sonde Parameters

	Measured	Calibrated
Offset		0.0000
Free Pipe	0.0000	

Peak Amplitude Source

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	3 foot		
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	Depth (ft)
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	0.00	0.00	0.00

Full Waveform Parameters

Use 3' Waveform to derive TR	No	
Use 4' Waveform to derive TR	No	
Use 5' Waveform to derive TR	No	
Use 6' Waveform to derive TR	No	
3' Waveform Discriminator Level	0.30	mV
4' Waveform Discriminator Level	0.30	mV
5' Waveform Discriminator Level	0.15	mV
6' Waveform Discriminator Level	0.15	mV

Waveform Discriminator Filter	Not Applied	
Semblance Window Width	150.00	micro-sec
Semblance Processing Enabled	Yes	
Tracking Boxes Enabled In Processing	Yes	

Induction Calibration MAI-B.J 299

Factory Loop Calibration 19-FEB-2018 09:42
Field Check on 07-NOV-2022 10:05

Factory Loop Calibration

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

Array	Measured Signal (unitless)		Reference Conductivity (mmho/m)		Calibration	
	Low	High	Low	High	Gain	Offset
1 (near)	16.9	474.4	9.3	966.2	2.092	-26.1
2	6.0	377.0	7.6	821.4	2.194	-5.7
3	4.3	258.7	5.2	566.0	2.204	-4.2
4 (far)	1.4	135.1	2.6	279.2	2.068	-0.2
Array Temperature	72.0		Deg F			

Tool Checks 25-OCT-2022 16:07

Array	Factory Reference (mmho/m)		Before Survey (mmho/m)		Deg F
	Low	High	Low	High	
1 (near)	12.9	3831.7	12.9	3830.7	44.6
2	30.6	3580.3	30.6	3578.7	
3	26.9	3068.5	26.9	3067.1	
4 (far)	20.4	2039.4	20.4	2038.5	
Array Temperature	89.7				

Tool Zero Corrections

Array	Low	High	mmho/m
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-B.J 299

Low Array 1	12.9	<input type="text" value="11.4"/> <input type="text" value="12.9"/> <input type="text" value="14.4"/>	mmho/m	High Array 1	3830.7	<input type="text" value="-0.5%"/> <input type="text" value="3831.7"/> <input type="text" value="+0.5%"/>	mmho/m
Low Array 2	30.6	<input type="text" value="29.1"/> <input type="text" value="30.6"/> <input type="text" value="32.1"/>	mmho/m	High Array 2	3578.7	<input type="text" value="-0.5%"/> <input type="text" value="3580.3"/> <input type="text" value="+0.5%"/>	mmho/m
Low Array 3	26.9	<input type="text" value="25.4"/> <input type="text" value="26.9"/> <input type="text" value="28.4"/>	mmho/m	High Array 3	3067.1	<input type="text" value="-0.5%"/> <input type="text" value="3068.5"/> <input type="text" value="+0.5%"/>	mmho/m
Low Array 4	20.4	<input type="text" value="18.9"/> <input type="text" value="20.4"/> <input type="text" value="21.9"/>	mmho/m	High Array 4	2038.5	<input type="text" value="-0.5%"/> <input type="text" value="2039.4"/> <input type="text" value="+0.5%"/>	mmho/m

Induction Constants MAI-B.J 299

Last Edited on 11-NOV-2022,04:27

Induction Model	RtAP		
Borehole Correction Constants	No		
Tool Centred	No		
Hole Size Source	Bit Size		
Hole Size Constant Value	N/A inches		
Stand-off Type	Pineapple		
Stand-off	0.49 inches		
Number of Fins on Stand-off	5.0000		
Stand-off Fin Angle	72.00 degrees		
Stand-off Fin Width	1.3878 inches		
Rm Source	Global Value: Temperature Corrected		
Temp. for Rm Corr.	MGS External Temperature		
Borehole Correction Method	Default		
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	1.00	v/v
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-D.A 513

Base Calibration on 05-NOV-2022 16:25
Field Calibration on 07-NOV-2022 09:38

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	17281	3.99
2	25452	5.96
3	34140	7.96
4	42314	9.85
5	51698	11.92
6	N/A	N/A

Field Calibration	
Measured Caliper (in)	Actual Caliper (in)
7.87	7.96

Caliper Calibration Tolerances MPD-D.A 513

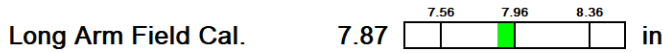


Photo Density Calibration MPD-D.A 513

Base Calibration on 05-NOV-2022 17:20
Field Check on 07-NOV-2022 09:46

Density Calibration				
Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Background	1078	1298		
Reference 1	42182	19825	59898	31131
Reference 2	17586	2193	25116	2544

Field Check at Base	1078.0	1297.9
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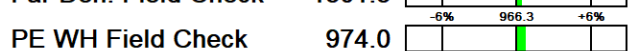
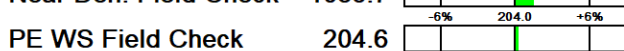
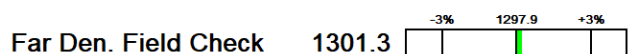
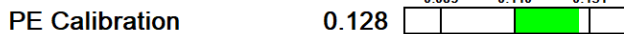
Field Check	1086.7	1301.3
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PE Calibration				
Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	204	966		
Reference 1	18502	42019	0.446	0.369
Reference 2	5367	17469	0.313	0.273

Field Check at Base	204.0	966.3
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Field Check	204.6	974.0
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Photo Density Calibration Tolerances MPD-D.A 513



Density Source Id	P44268B	
Nylon Calibrator Number	DNCE666	
Aluminium Calibrator Number	DACD535	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Bit Size	
PE Correction to Density	Not Applied	
Mud Density	1.31	gm/cc
Mud Density Type	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	Not Applied	
Density Detector Type	Compensated Density	

Matrix Density (gm/cc)	Depth (ft)
2.65	
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

DOWNHOLE EQUIPMENT

C:\LOGS\Snake River\Barlow 3-14\MAIN PASS.dta

Shuttle Running Tool 3.5"

SRT-A.A59 LG: 5.90 ft WT: 37.5 lb OD: 2.520 in

Compact Knuckle Joint

SKJ-E.B 456 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Linker

MLK-E.A 107 LG: 14.23 ft WT: 99.2 lb OD: 2.240 in

Compact Linker

MLK-E.A 101 LG: 14.23 ft WT: 99.2 lb OD: 2.240 in

Compact Knuckle Joint

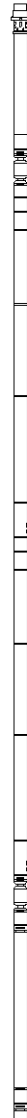
SKJ-E.A 349 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

200v Compact Battery Sub

MBS-G.A 117 LG: 17.06 ft WT: 123.5 lb OD: 2.240 in

Compact Memory Sub F.A

MMS-F.A262 LG: 5.20 ft WT: 37.5 lb OD: 2.244 in



Compact Swivel Head Adaptor
SHA-J.B 726 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Tool Isolator sub.
MTI-C.A 150 LG: 1.54 ft WT: 13.2 lb OD: 2.244 in

Compact Short Gamma
MGS-D.A 184 LG: 3.41 ft WT: 24.3 lb OD: 2.244 in

Compact Collar Locator
MCL-C.A 144 LG: 3.17 ft WT: 26.5 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 729 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Swivel Head Adaptor
SHA-J.B 705 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Inline Bowspring sub
MIS-D.B 849 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

Compact Neutron
MDN-C.A 533 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper
MPD-D.A 513 LG: 9.59 ft WT: 90.4 lb OD: 2.244 in

Compact Vee Arm Caliper
MVC-A.A 148 LG: 8.06 ft WT: 61.7 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 705 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Inline Bowspring sub
MIS-D.B 830 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

Compact Inline Standoff sub
MIS-E.B 774 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Sonic
MSS-D.A 401 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

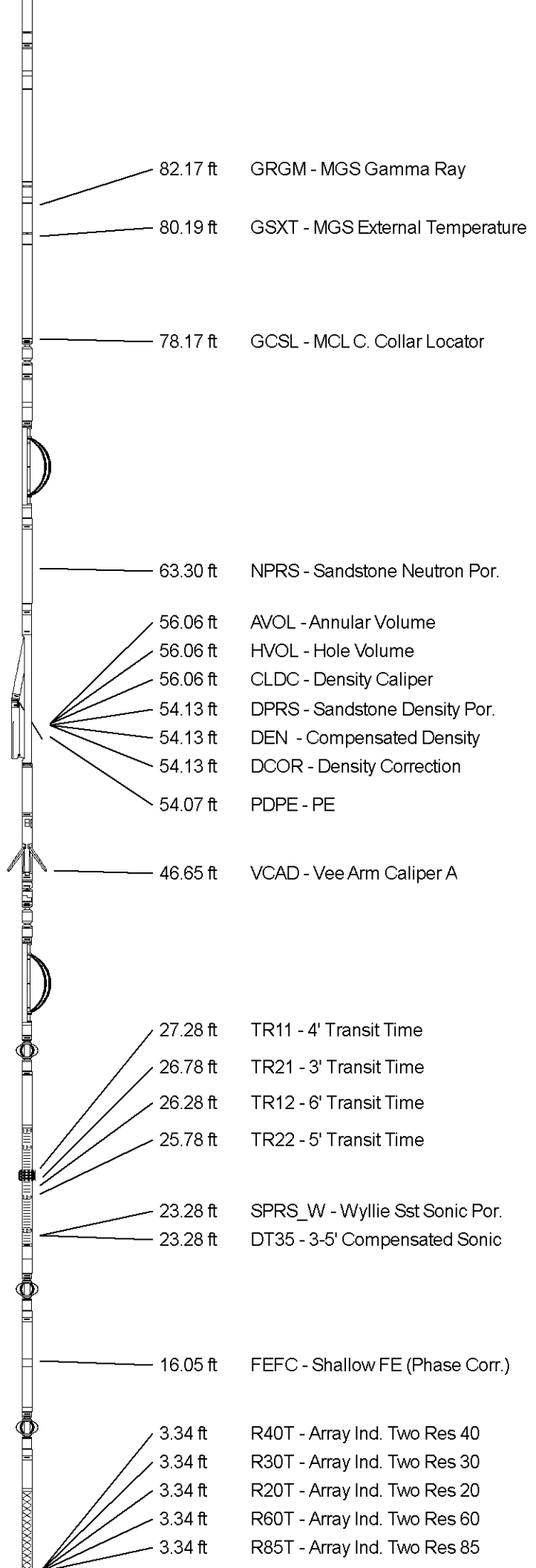
Compact Inline Standoff sub
MIS-E.B 788 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

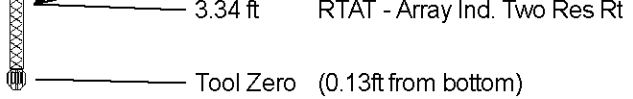
Compact Focussed Electric
MFE-C.A 426 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Inline Standoff sub
MIS-E.B 791 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Induction
MAI-B.J 299 LG: 10.81 ft WT: 48.5 lb OD: 2.240 in

Total Length: 147.88 ft Weight: 1086.9 lb





All measurements relative to tool zero.

COMPANY	SNAKE RIVER OIL AND GAS, LLC
WELL	BARLOW #3-14
FIELD	WILDCAT
PROVINCE/COUNTY	PAYETTE
COUNTRY/STATE	U.S.A. / IDAHO

Elevation Kelly Bushing	2176.50	feet	Last Reading	1135.00	feet
Elevation Drill Floor	2176.50	feet	First Reading	5475.50	feet
Elevation Ground Level	2164.00	feet	Depth Driller	5501.00	feet
			Depth Logger	5501.00	feet



Weatherford[®]

MEASURED DEPTH
COMPACT QUAD COMBO