



Weatherford

**MEASURED DEPTH
COMPACT QUAD COMBO**

COMPANY

SNAKE RIVER OIL AND GAS, LLC

WELL

DUTCH LANE 1-13

FIELD

WILDCAT

COUNTY

PAYETTE

STATE

U.S.A. / IDAHO

LOCATION

SHL: 2367'FNL & 1316'FWL

SEC 13

TWP 8N

RGE 5W

Other Services

Latitude

44.0331400

Longitude

-116.886925

API Number

11-075-20038

Permanent Datum GL, Elevation 2166.5 feet

Log Measured From KB, 12.50 feet above Permanent Datum

Drilling Measured From KB

Date 03-JAN-2022

Run Number 1

Service Order 6443-325230529

Depth Driller 4875.00 feet

Depth Logger 4875.00 feet

First Reading 4852.00 feet

Last Reading 1119.00 feet

Casing Driller 1119.00 feet

Casing Logger 1119.00 feet

Bit Size 8.500 inches

Hole Fluid Type WBM

Density / Viscosity 11.10 lb/USg 36.00 sec/qt

PH / Fluid Loss 8.40 4.20 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 4.96 @ 75.0 ohm-m

Rmf @ Measured Temp 3.72 @ 75.0 ohm-m

Rmc @ Measured Temp 6.20 @ 75.0 ohm-m

Source Rmf / Rmc CALC CALC

Rm @ BHT 1.826 @208.0 ohm-m

Time Since Circulation 0.25 HRS

Max Recorded Temp 208.00 deg F

Equipment / Base 4124 FTW

Recorded By ARBER CUKU

Witnessed By DAVE SMITH

RIG PAUL GRAHAM4

Elevations:
KB 2179.00
DF 2179.00
GL 2166.50

BOREHOLE RECORD

Last Edited: 04-JAN-2022 06:51

Bit Size
inches
8.500

Depth From
feet
1119.00

Depth To
feet
4875.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
casing	9.625	0.00	1119.00	40.00

REMARKS

TOOLSTRING RUN AS PER THE TOOL STRING DIAGRAM. MAXIMUM OD OF 2.28 inches AT THE MPD TOOL.

TOOLSTRING CONFIGURED FOR VERTICAL AND LOW DEVIATION TRAJECTORY

DIRECTIONAL DATA PROVIDED BY "TITAN DIRECTIONAL DRILLING": 03-JAN-2022.

MAXIMUM DEVIATION: 25.20 degrees @ 2323.00 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.
MIS-D: 6 I EAF BOWSPRINGS TO CENTRALIZE THE MSS FROM ABOVE

MISC D: USE LEFT DOWNHOLES TO CENTRALIZE THE MSS FROM ABOVE.
 MXC: USED TO TO CENTRALIZE THE MSS FROM BELOW
 MAI: INLINE CENTRALIZER 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 BY USING MESSENGER COMPACT WELL SHUTTLE CONVEYANCE.

BOREHOLE CONDITION:

RIG CIRCULATED GAS OUT OF THE WELL AFTER TOOLS DEPLOYED.

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

POST ACQUISITION PROCESSING:

HOLE VOLUME FROM 4794.48 FT to CASING SHOE = 1970 CU.FT

ANNULAR HOLE VOLUME FROM 4794.48 FT to CASING SHOE = 1360 CU.FT

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

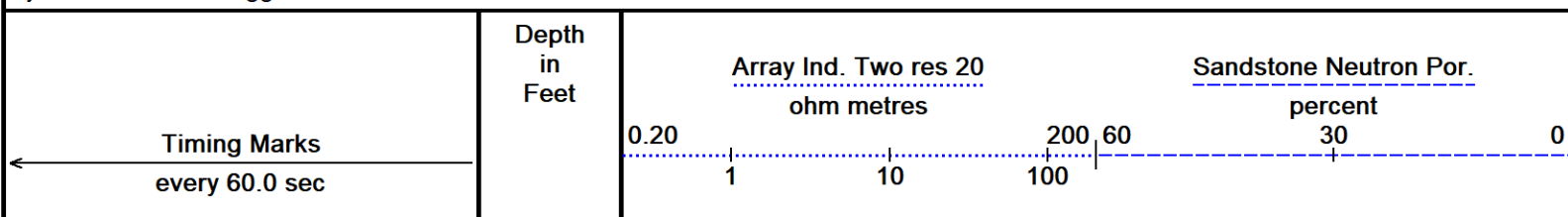
ANNULAR AND HOLE VOLUMES CALCULATED FROM DENSITY CALIPER MEASUREMENTS.

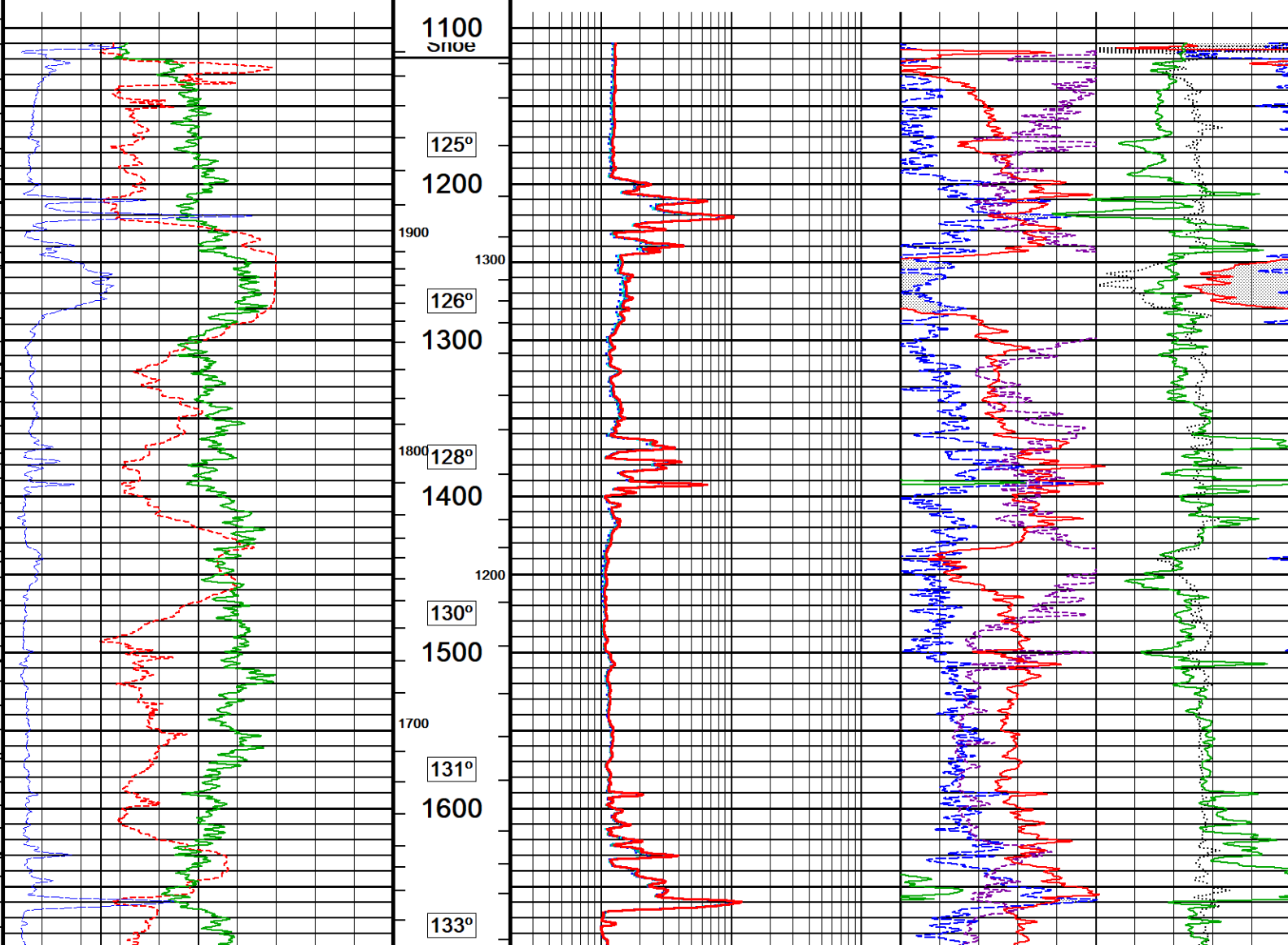
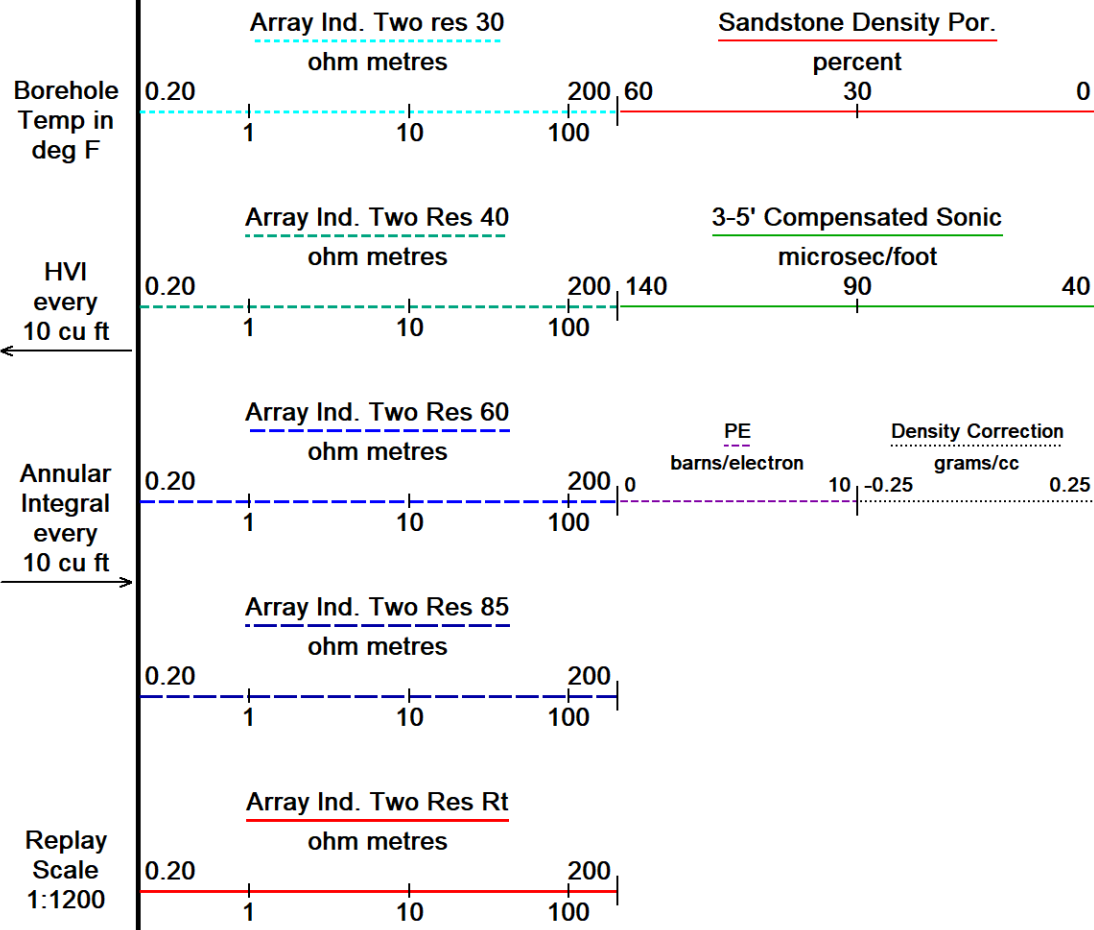
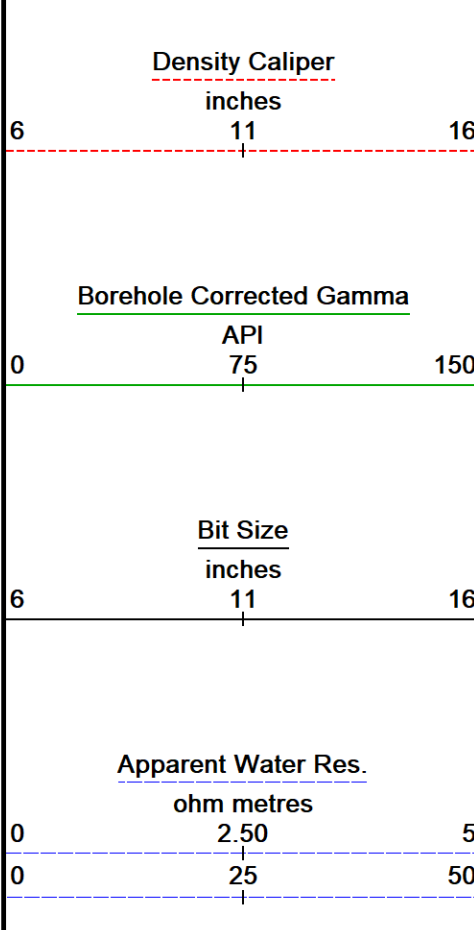
BOREHOLE WASHOUTS AFFECT DATA QUALITY.

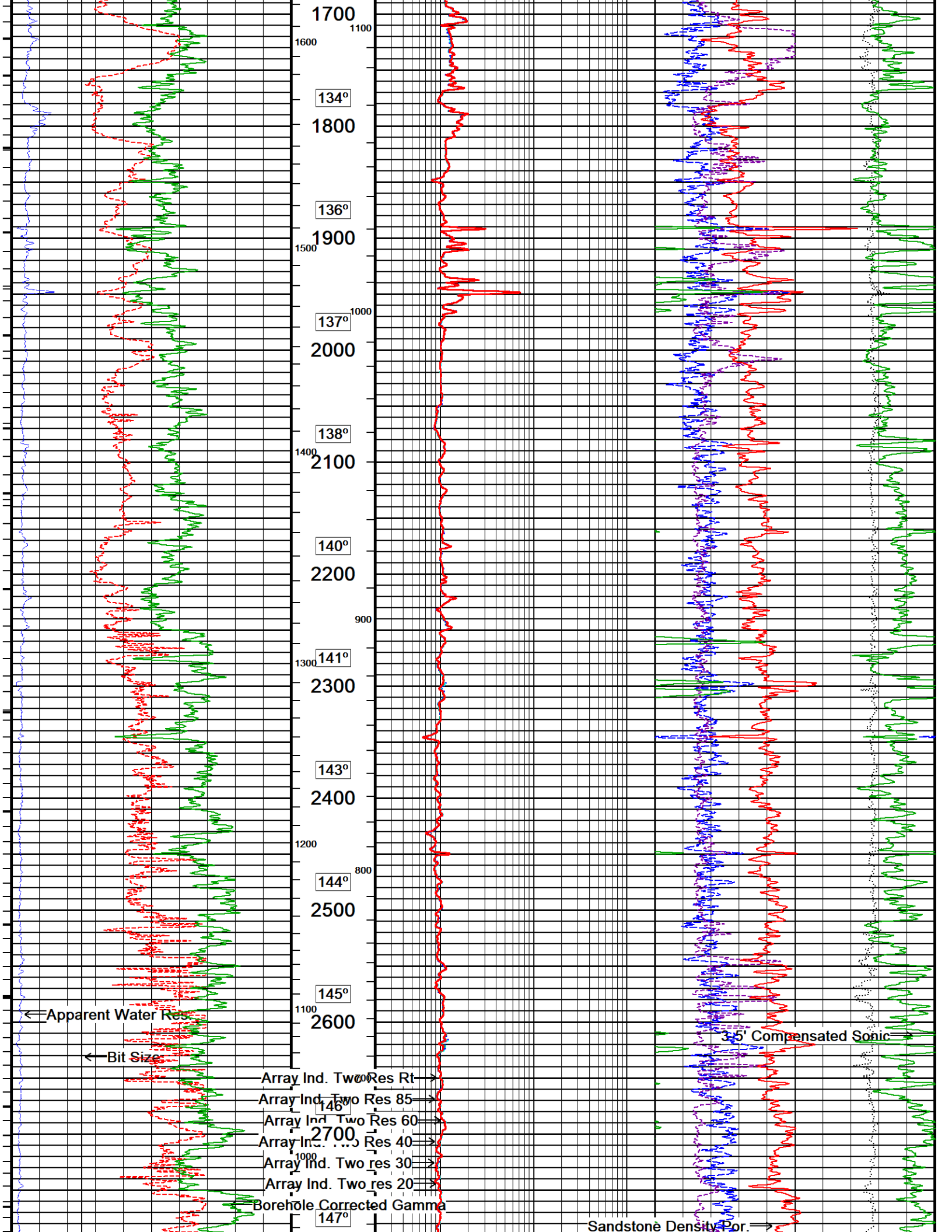
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.

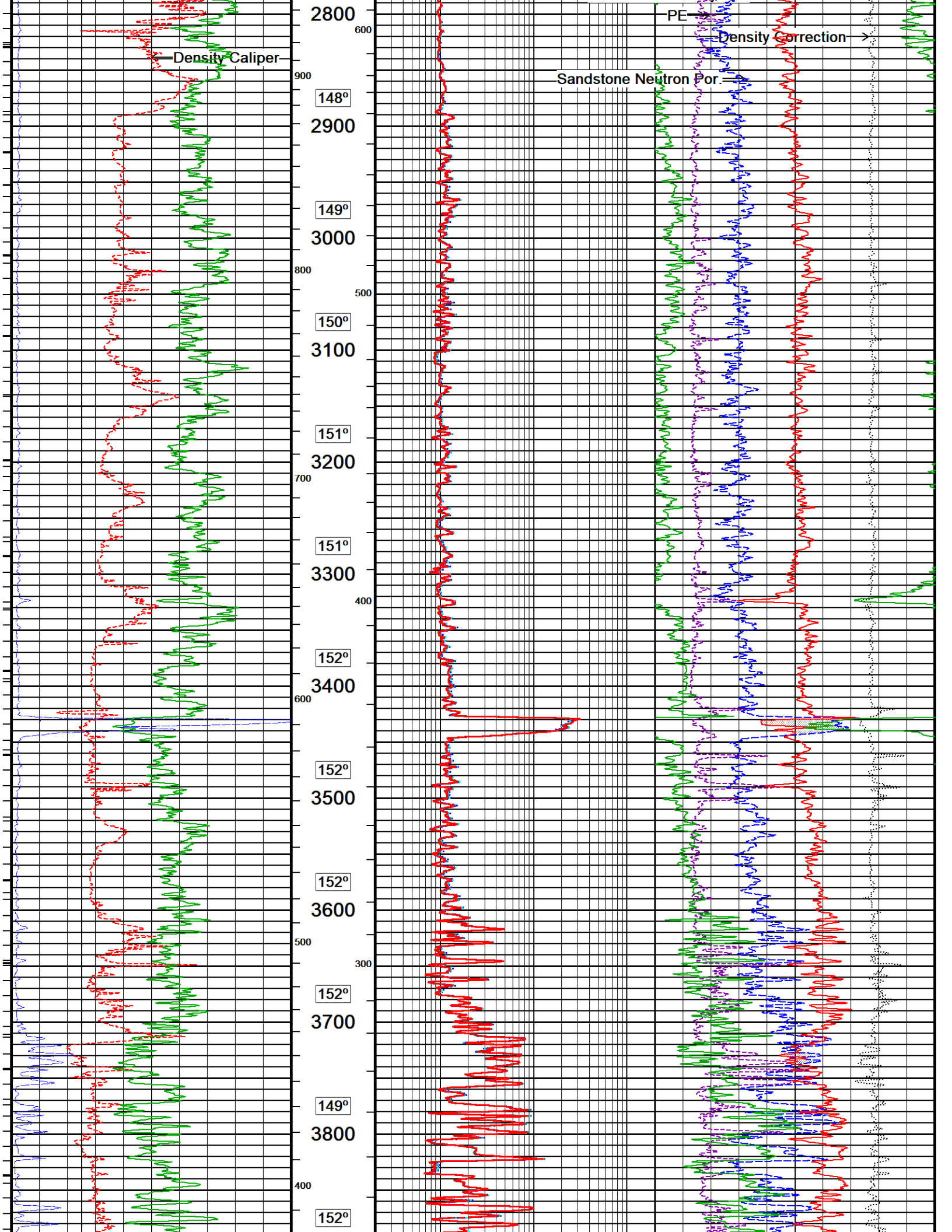
1 INCH MAIN PASS

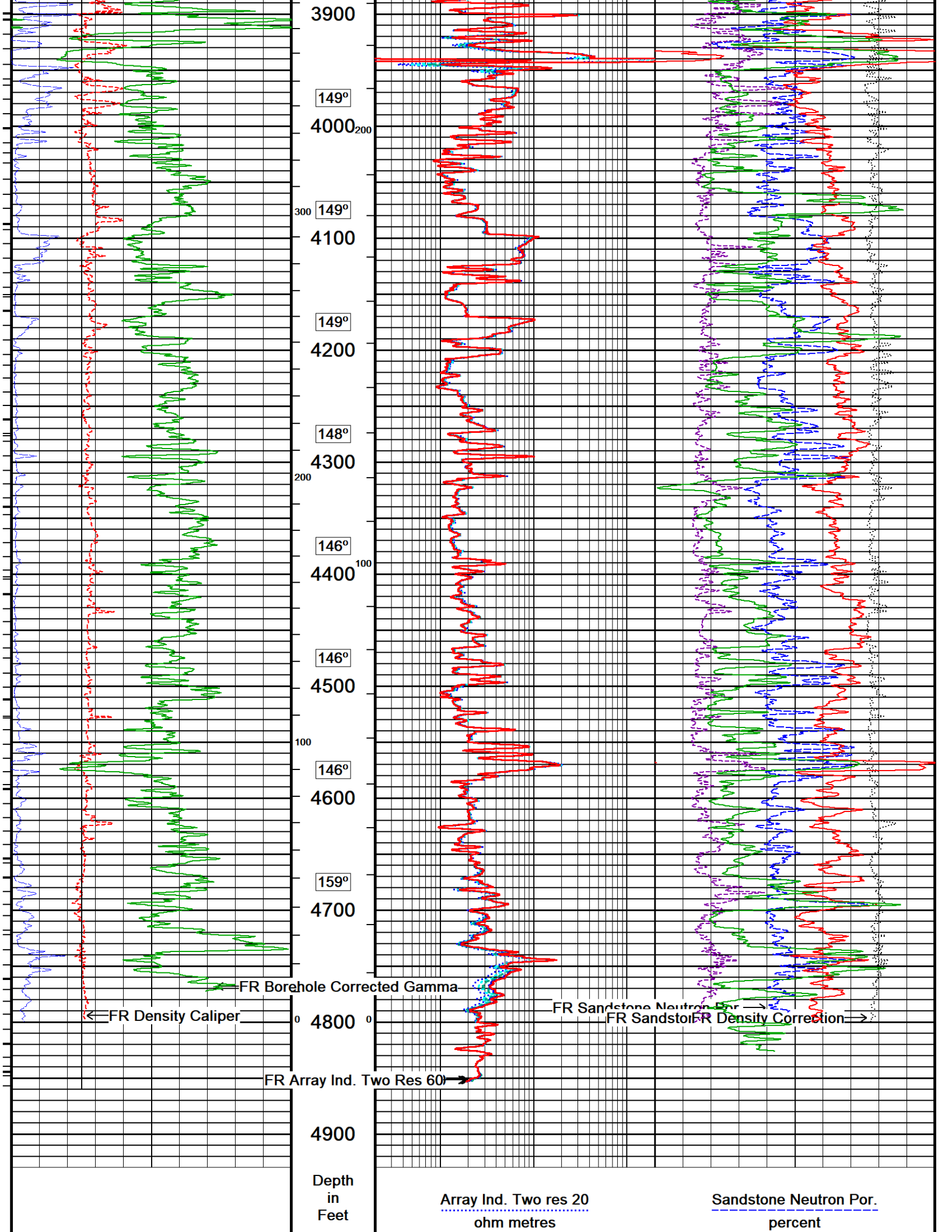
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 04-JAN-2022 18:59
 Filename: C:\Users\le181066\AppData\Local\Temp\Weatherford PreView2\0\MAIN PASS.dta Recorded on 04-JAN-2022 16:22
 System Versions: Logged with 21.05.1117 Processed with 21.05.1117 Plotted with 20.05.7660

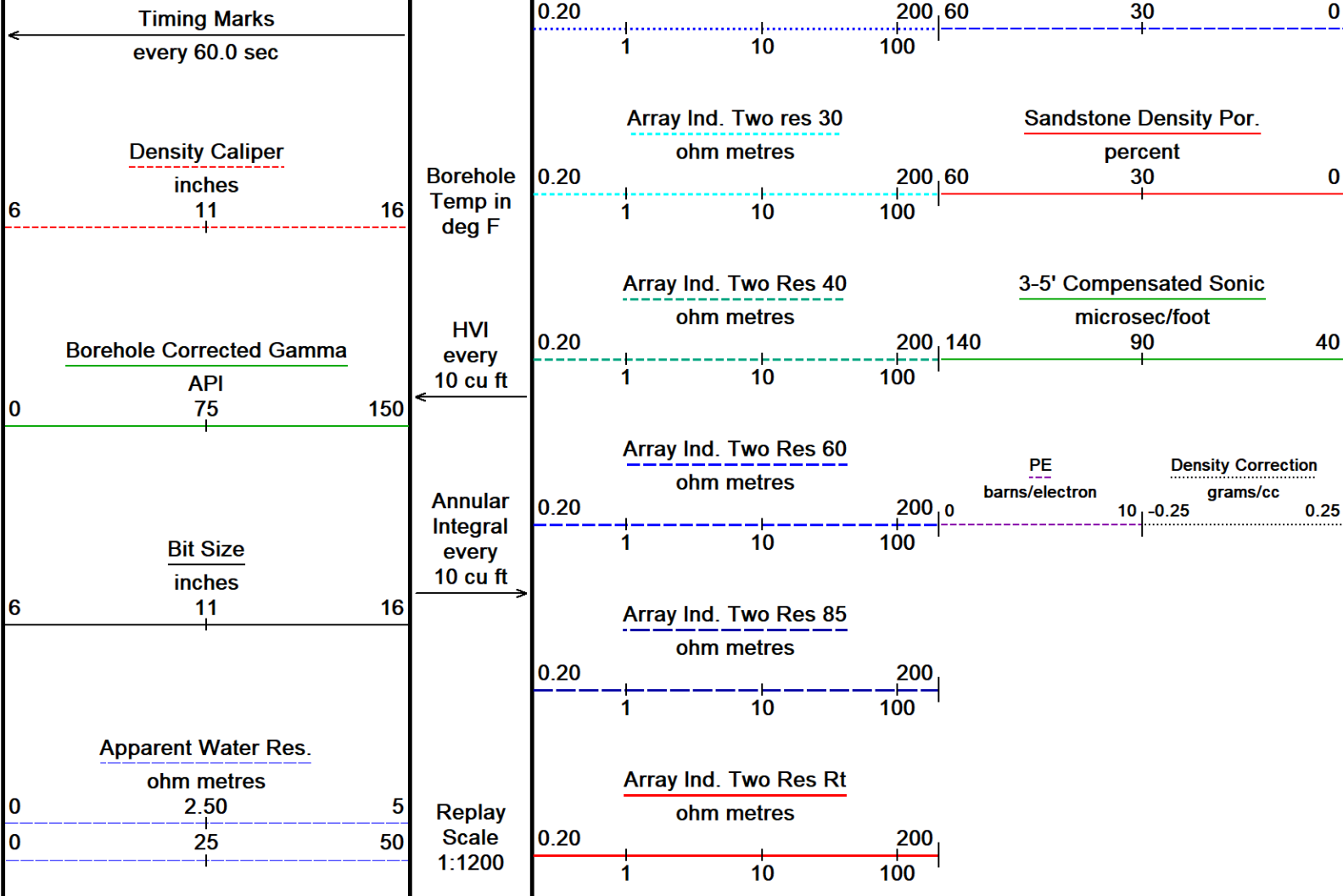








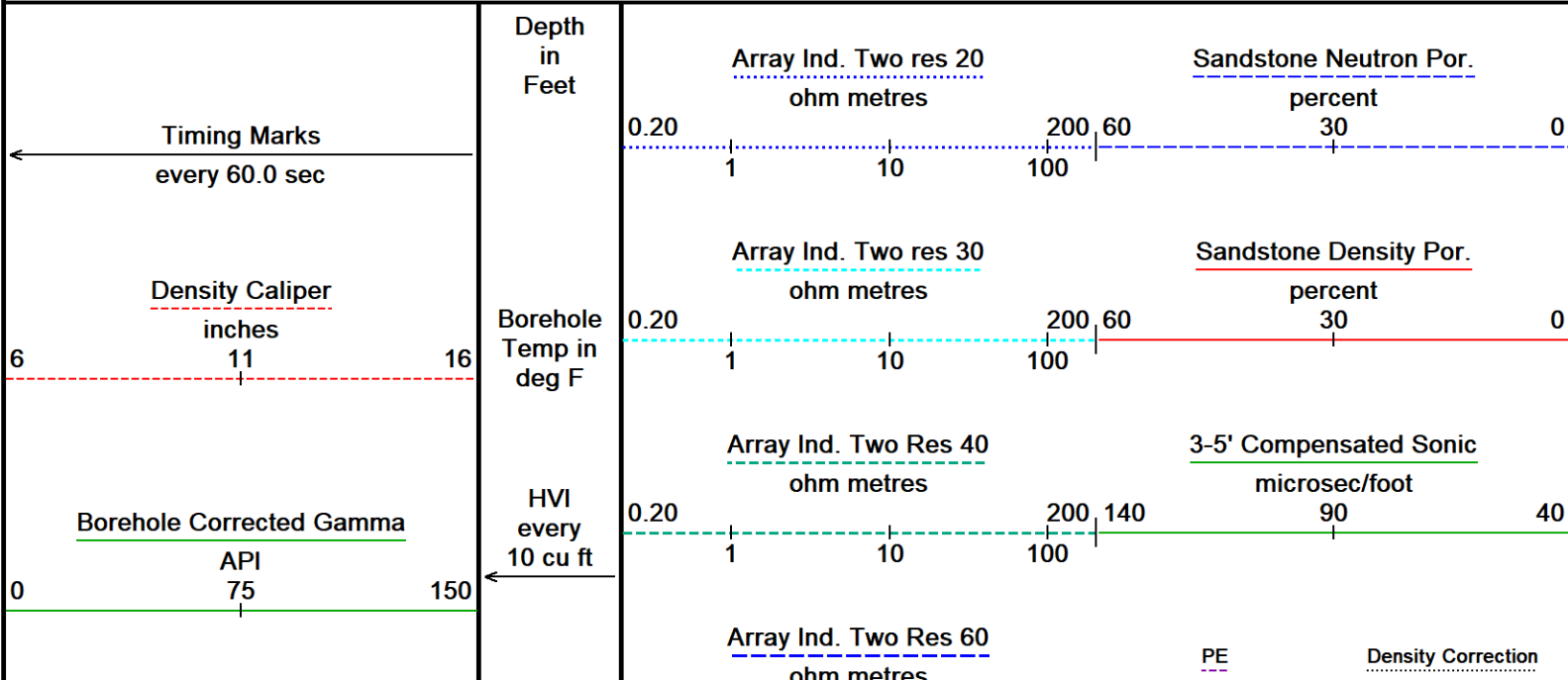


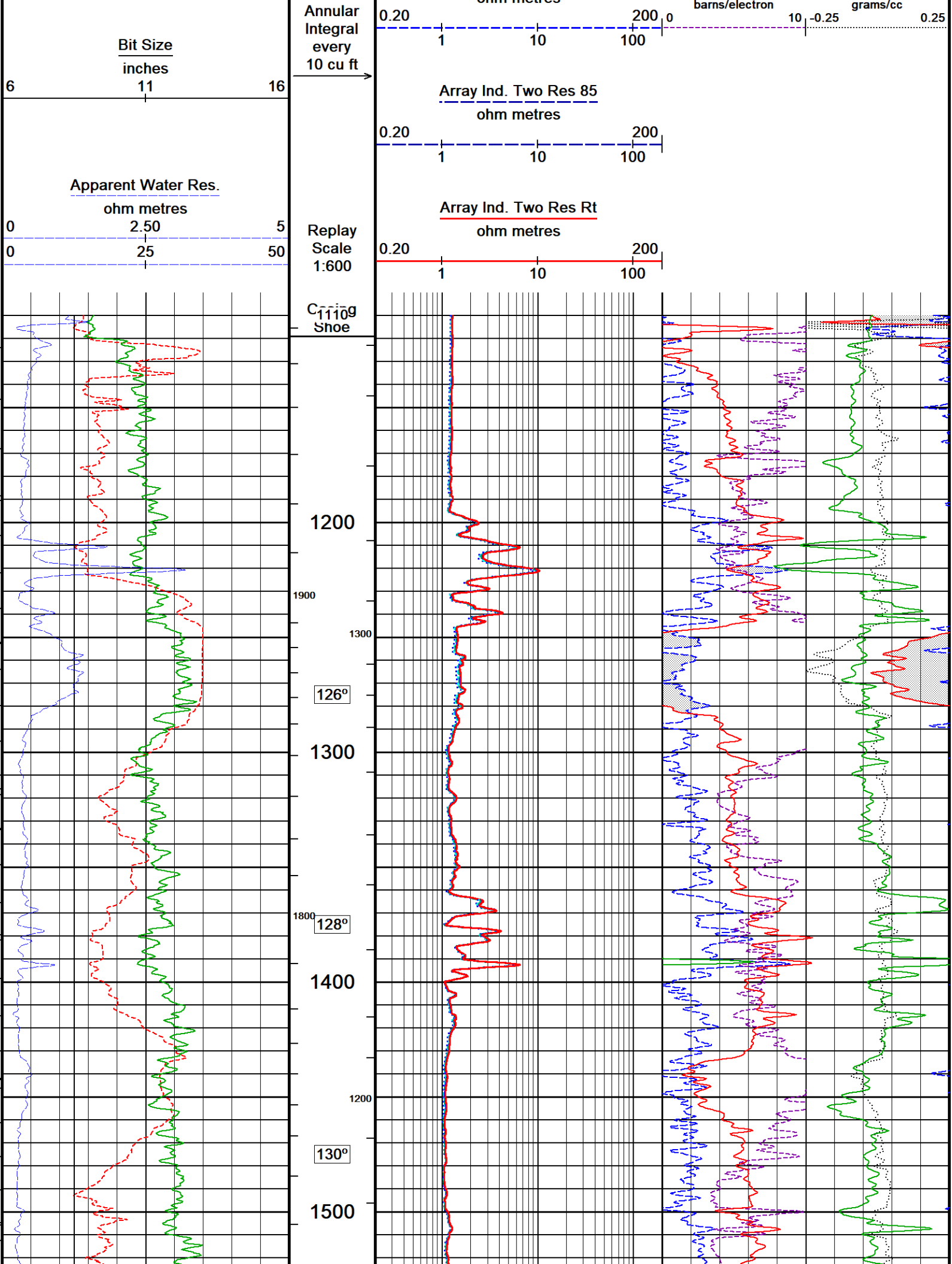


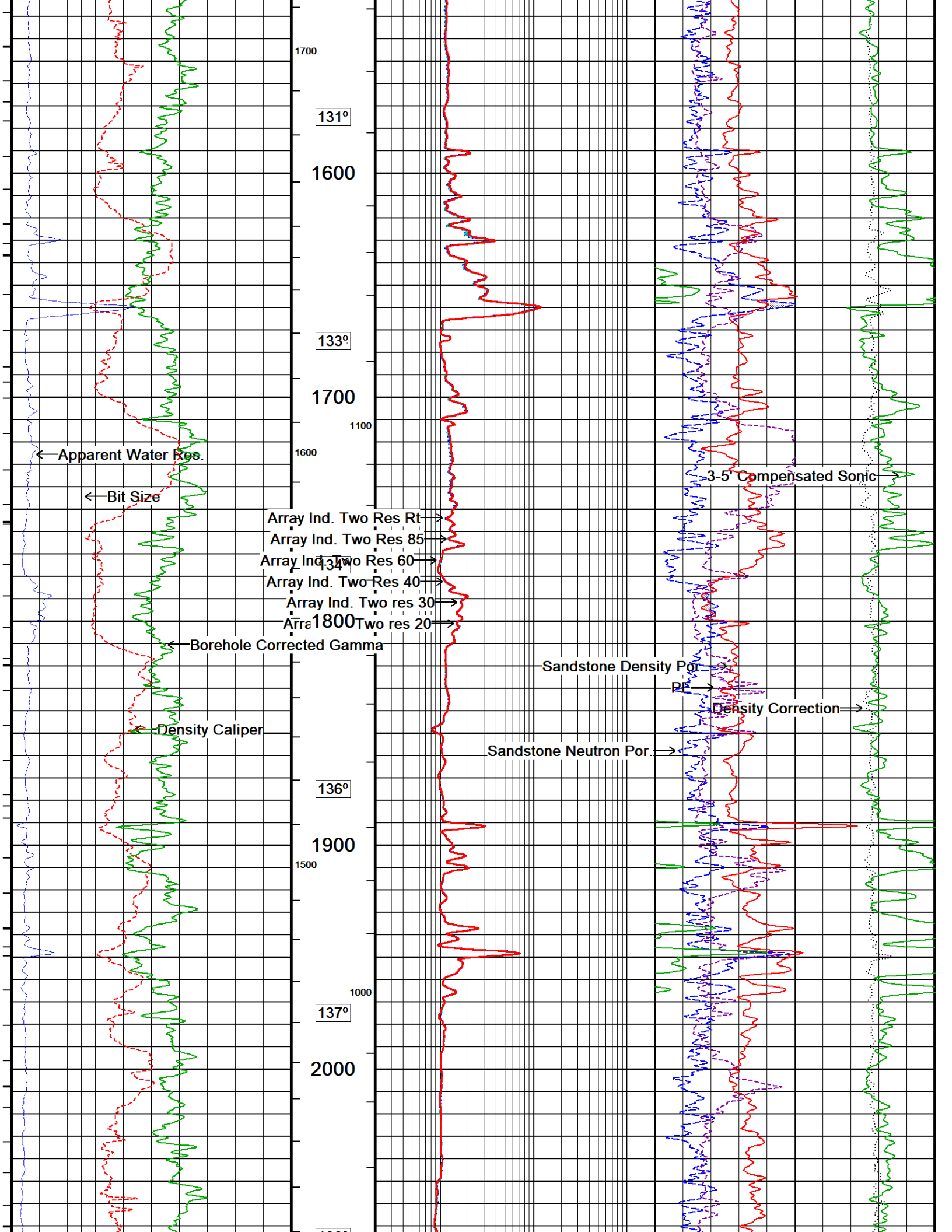
↑ 1 INCH MAIN PASS ↑

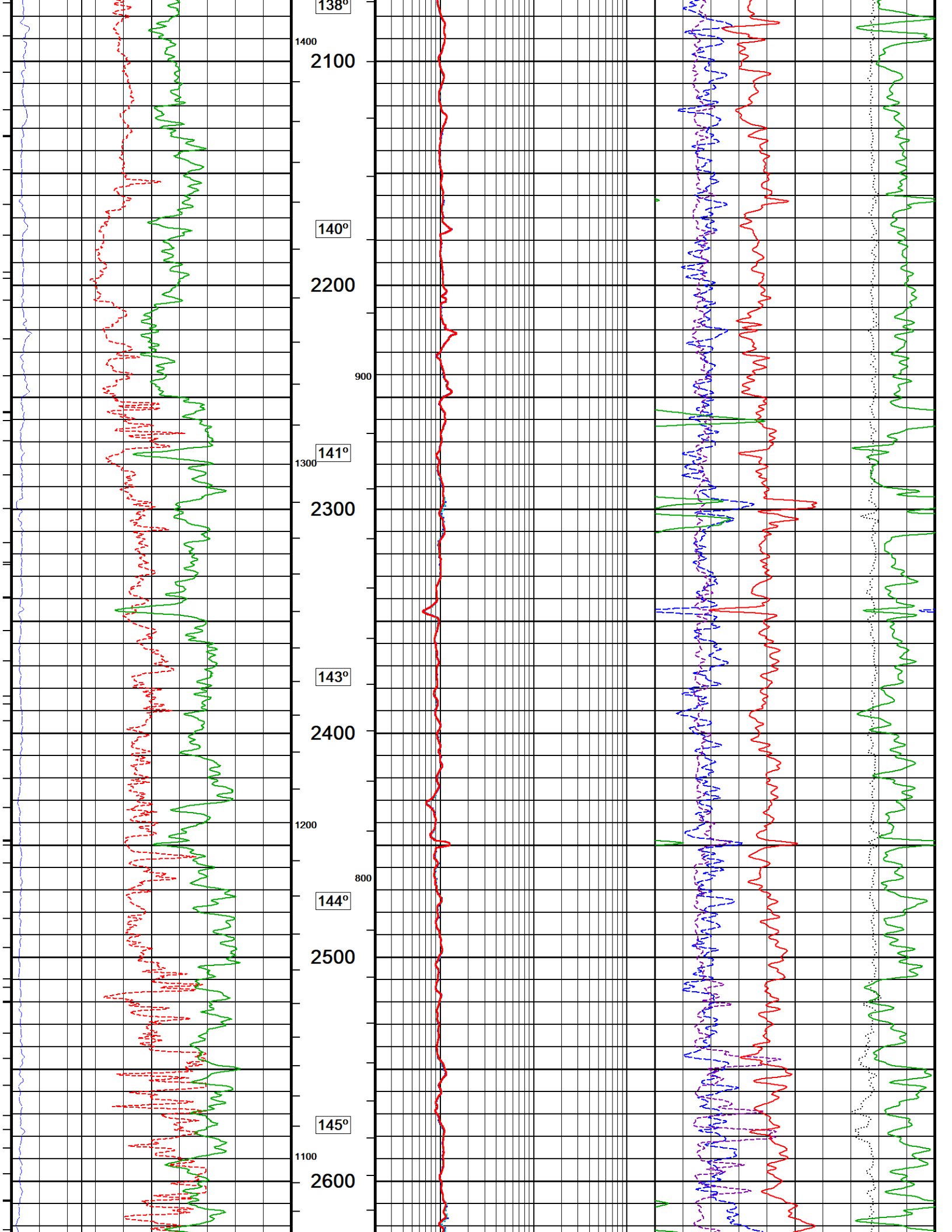
↓ 2 INCH MAIN PASS ↓

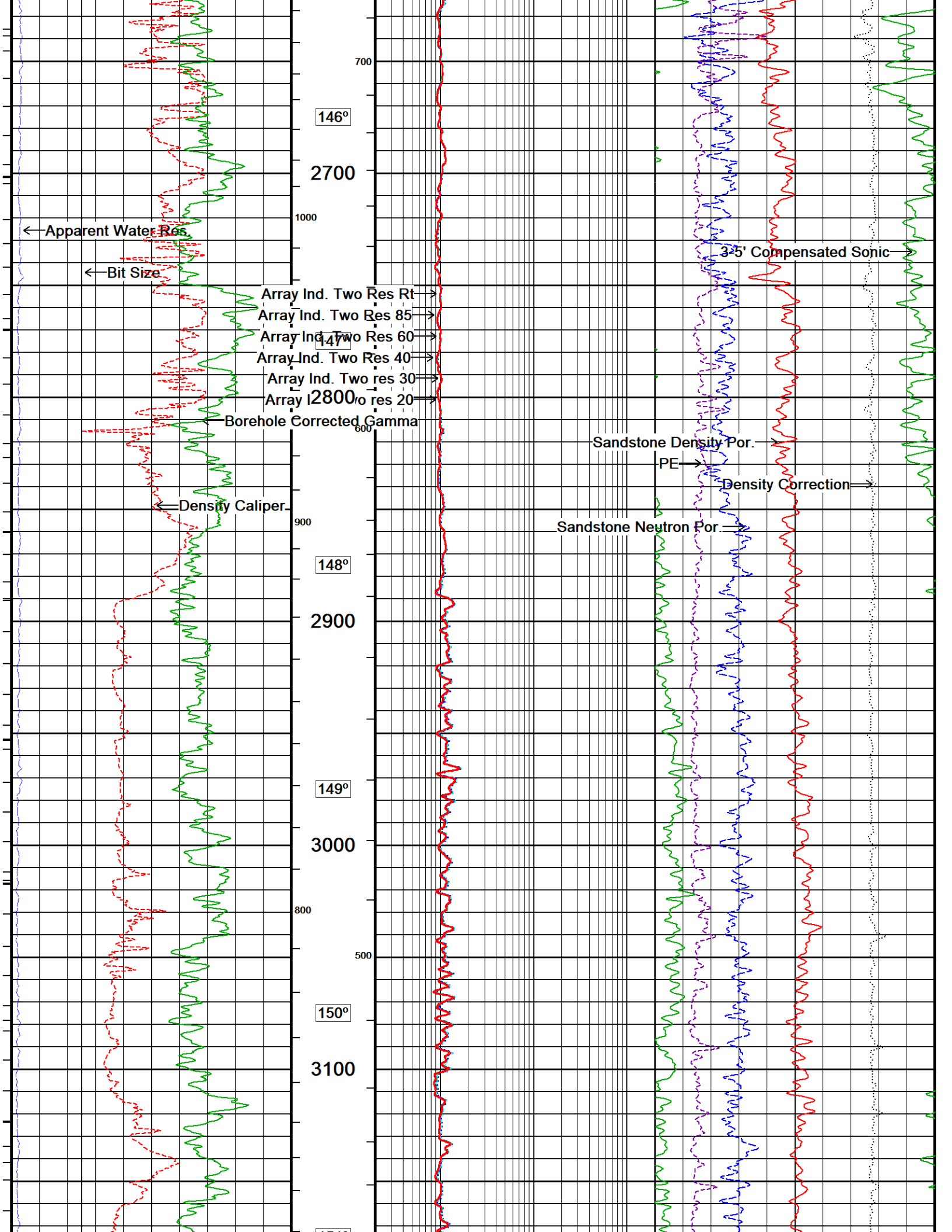
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 04-JAN-2022 18:59
 Filename: C:\Users\181066\AppData\Local\Temp\Weatherford PreView2\0\MAIN PASS.dta
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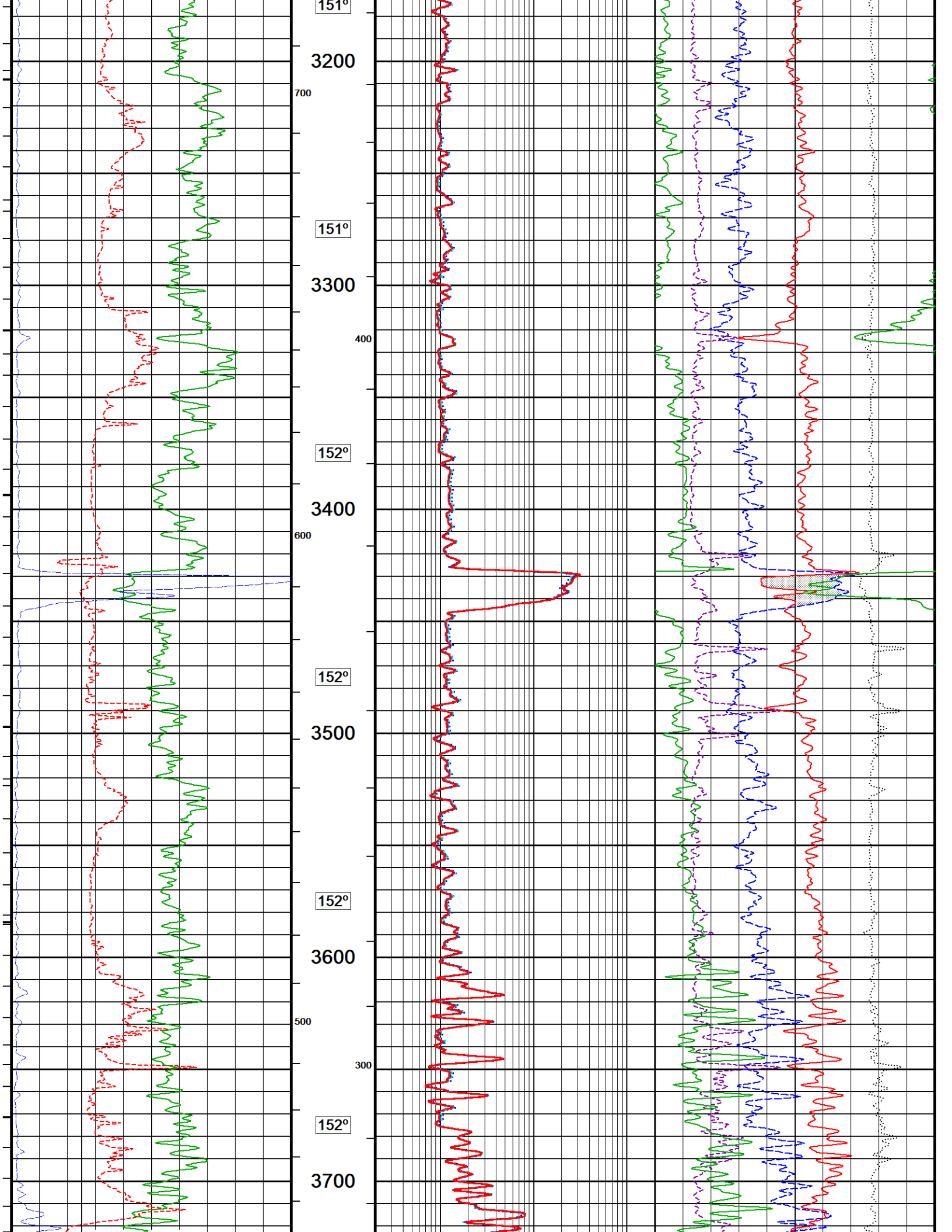


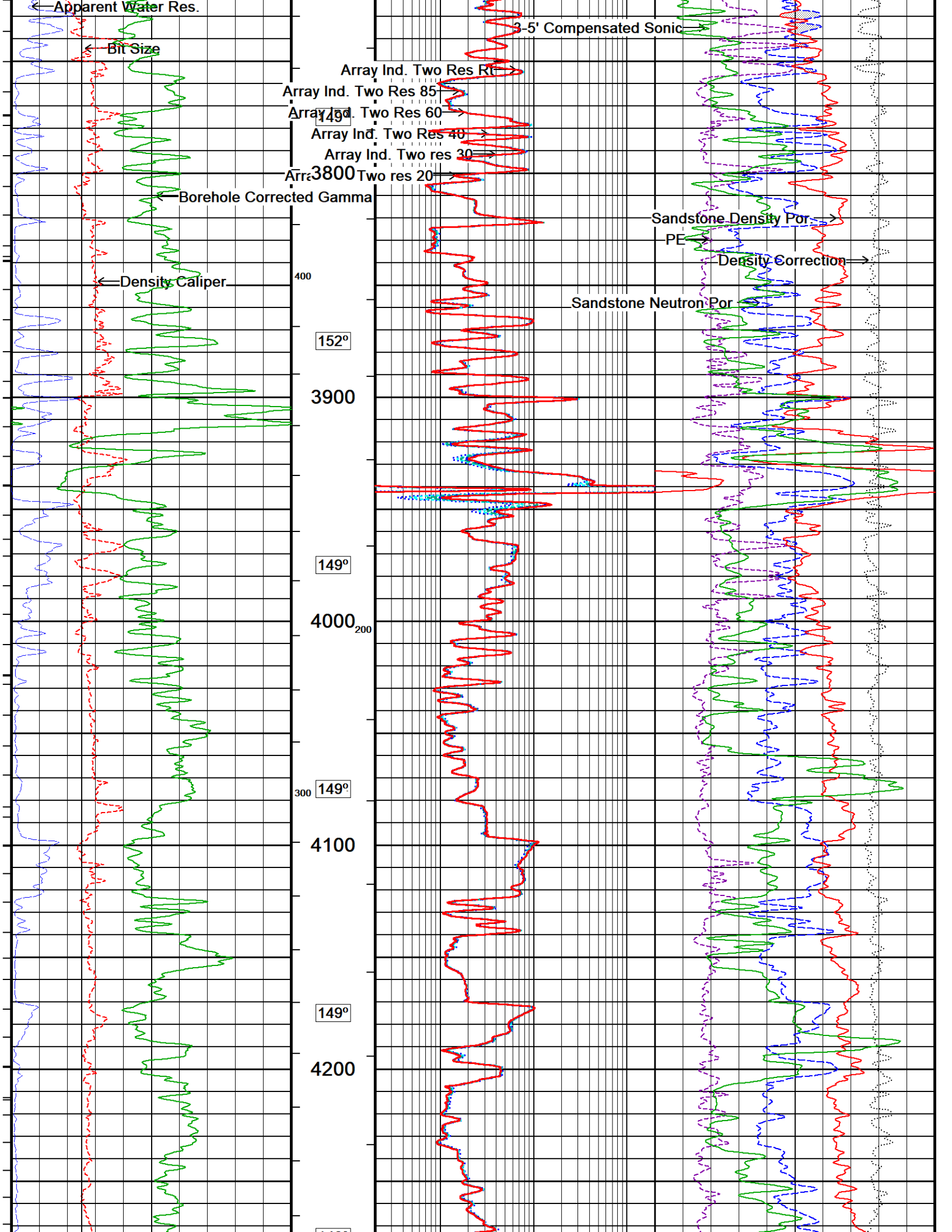


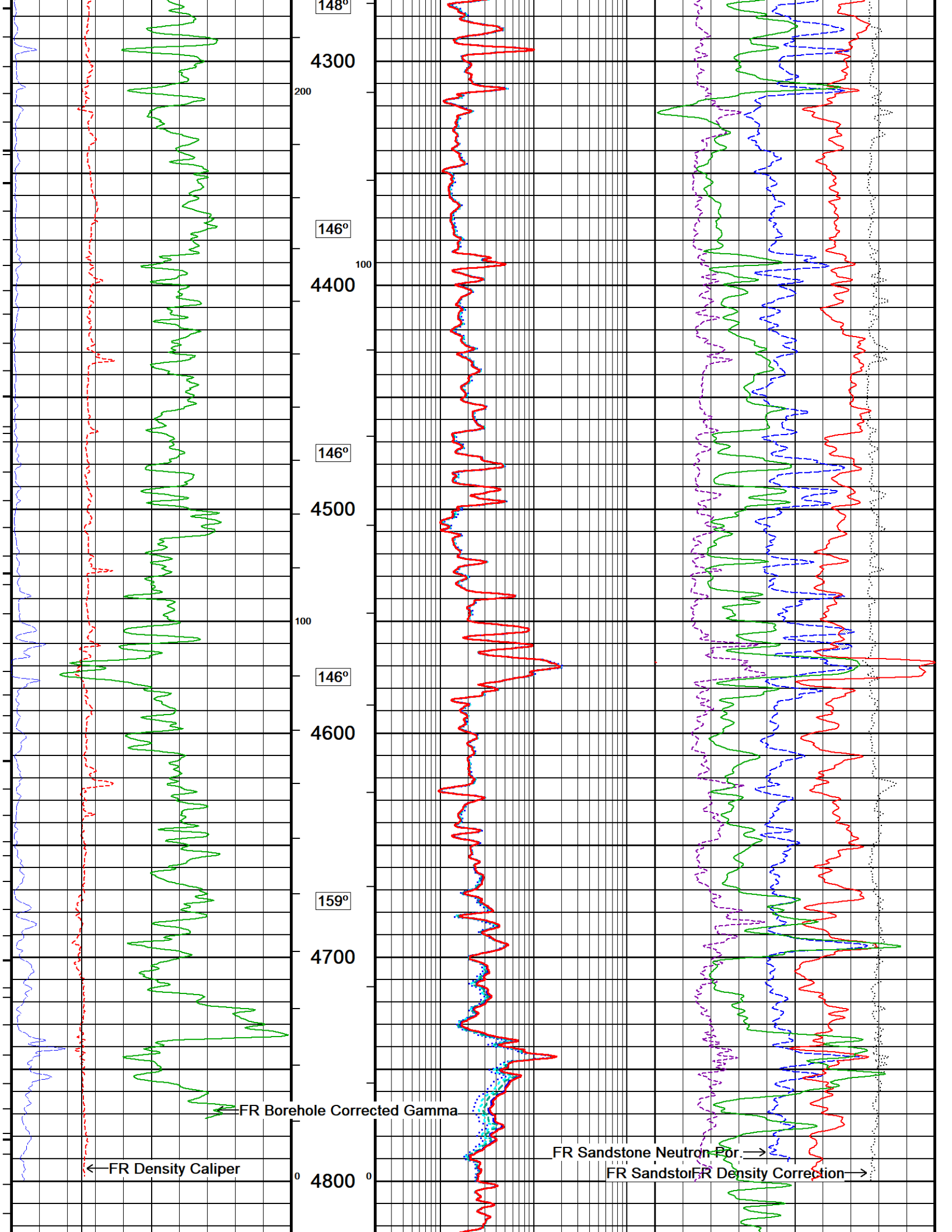












FR Array Ind. Two Res 60

Depth in Feet

Timing Marks every 60.0 sec

Density Caliper inches

Borehole Temp in deg F

Borehole Corrected Gamma API

HVI every 10 cu ft

Bit Size inches

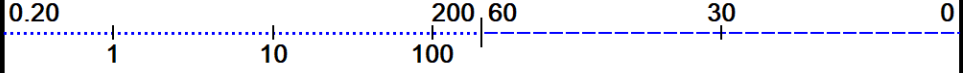
Annular Integral every 10 cu ft

Apparent Water Res. ohm metres

Replay Scale 1:600

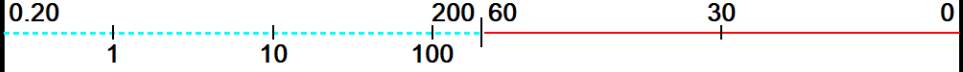
Array Ind. Two res 20 ohm metres

Sandstone Neutron Por. percent



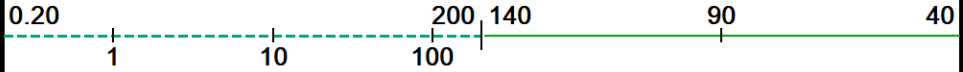
Array Ind. Two res 30 ohm metres

Sandstone Density Por. percent



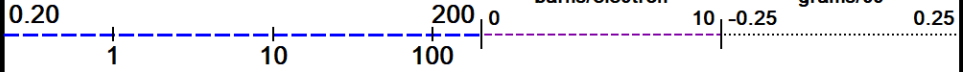
Array Ind. Two Res 40 ohm metres

3-5' Compensated Sonic microsec/foot

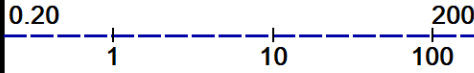


Array Ind. Two Res 60 ohm metres

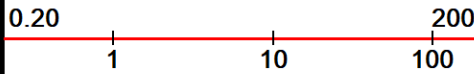
PE barns/electron Density Correction grams/cc



Array Ind. Two Res 85 ohm metres



Array Ind. Two Res Rt ohm metres



Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 04-JAN-2022 18:59

Filename: C:\Users\181066\AppData\Local\Temp\Weatherford PreView2\0\MAIN PASS.dta

Recorded on 04-JAN-2022 16:22

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2 INCH MAIN PASS

5 INCH MAIN PASS

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 04-JAN-2022 18:59

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Recorded on 04-JAN-2022 16:22

System Versions: Logged with 21.05.1117 Processed with 21.05.1117 Plotted with 20.05.7660

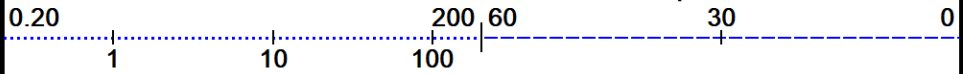
Depth in Feet

Timing Marks every 60.0 sec

Density Caliper

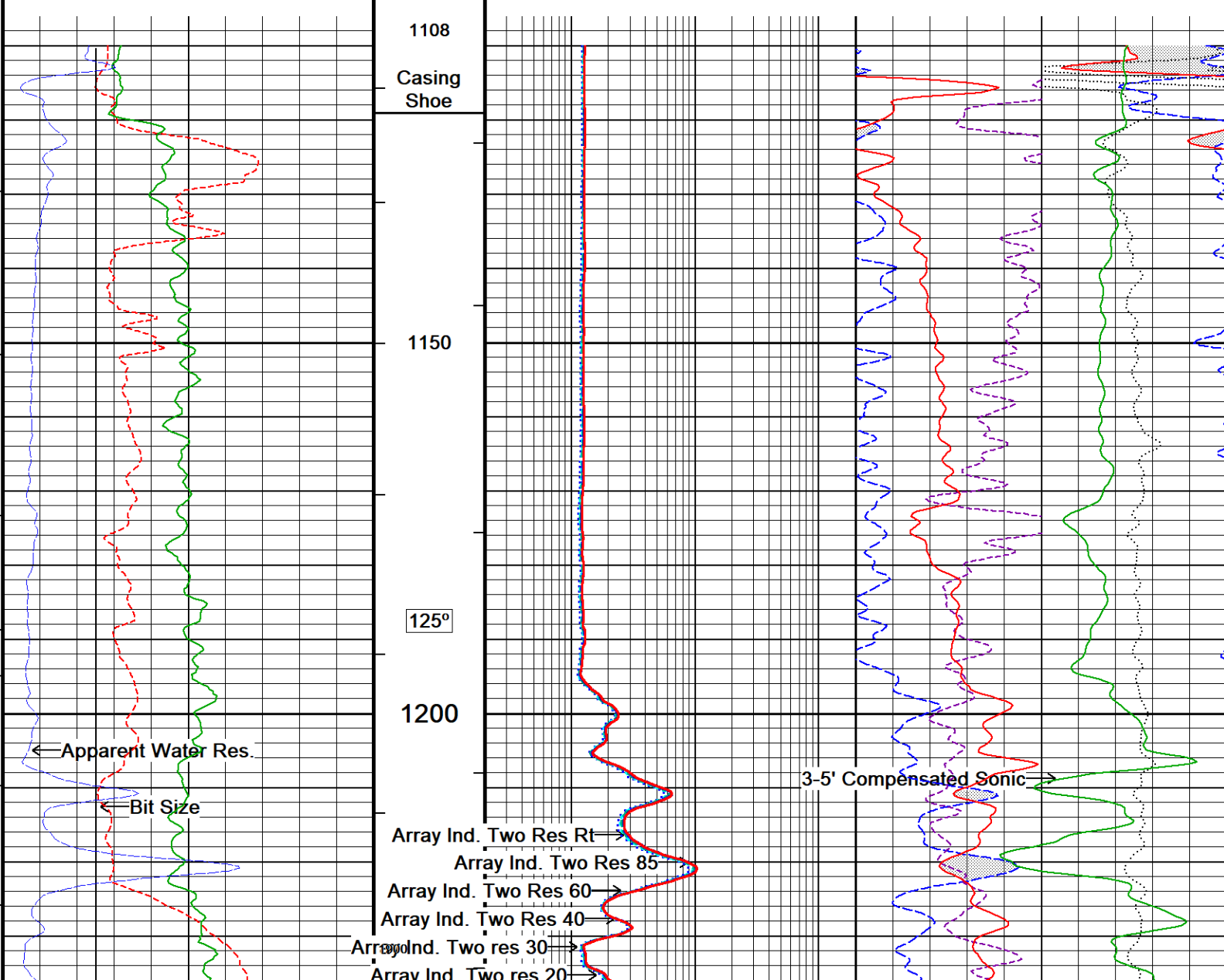
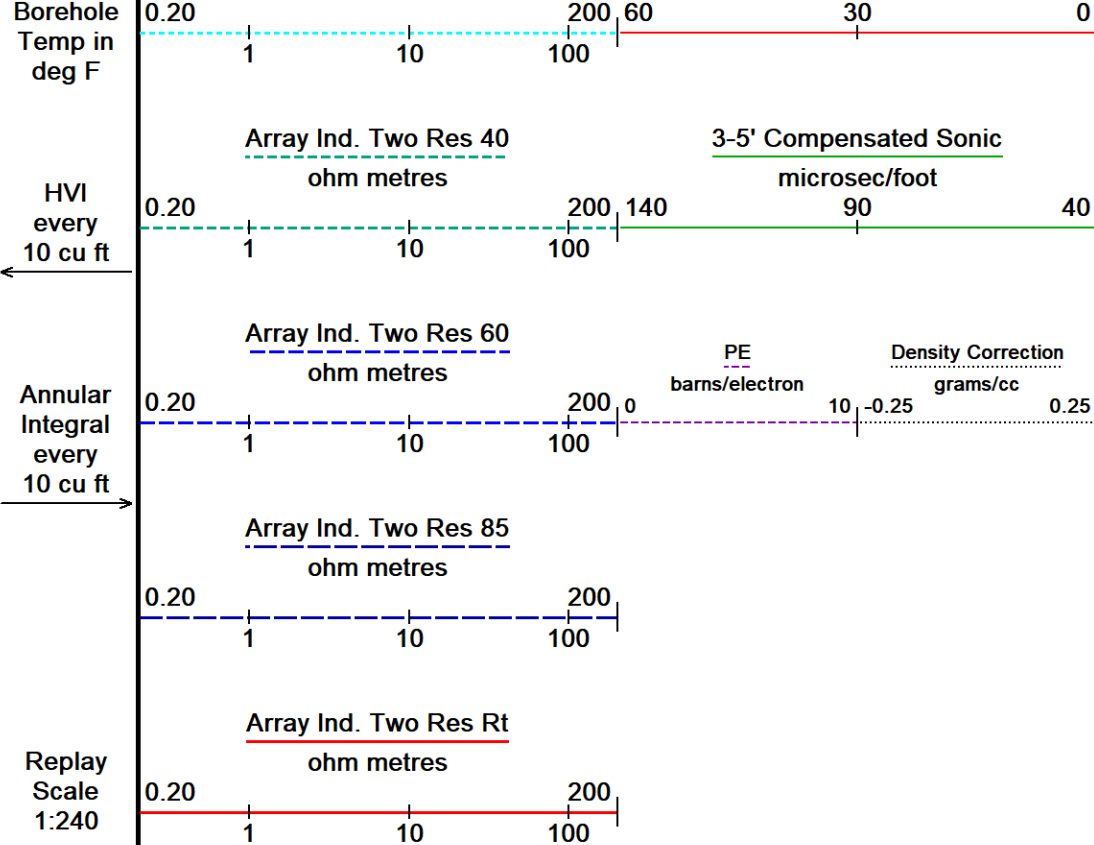
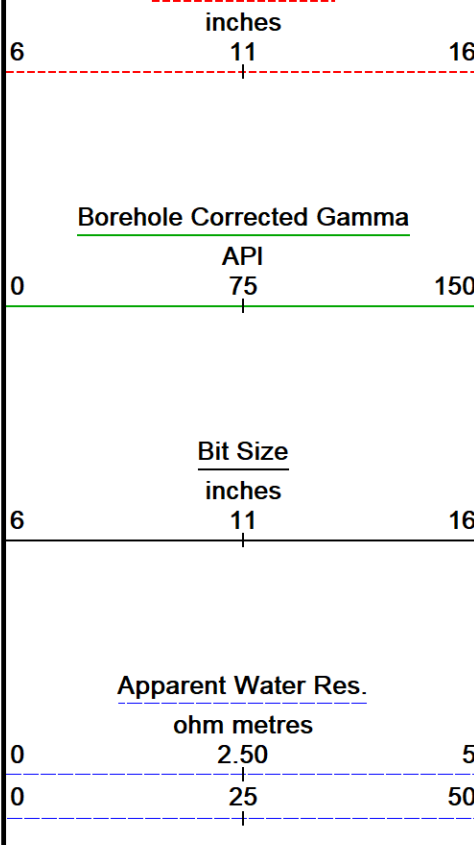
Array Ind. Two res 20 ohm metres

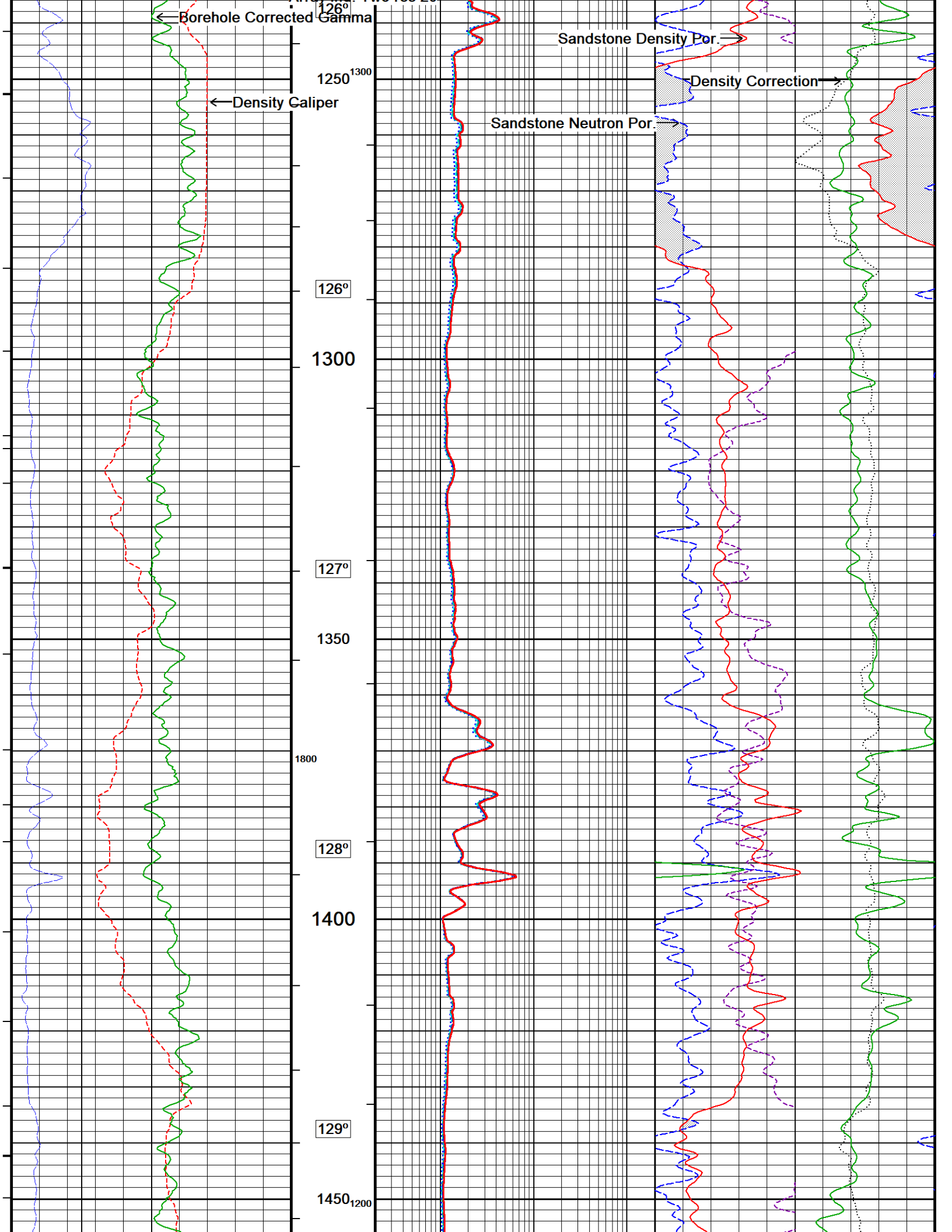
Sandstone Neutron Por. percent

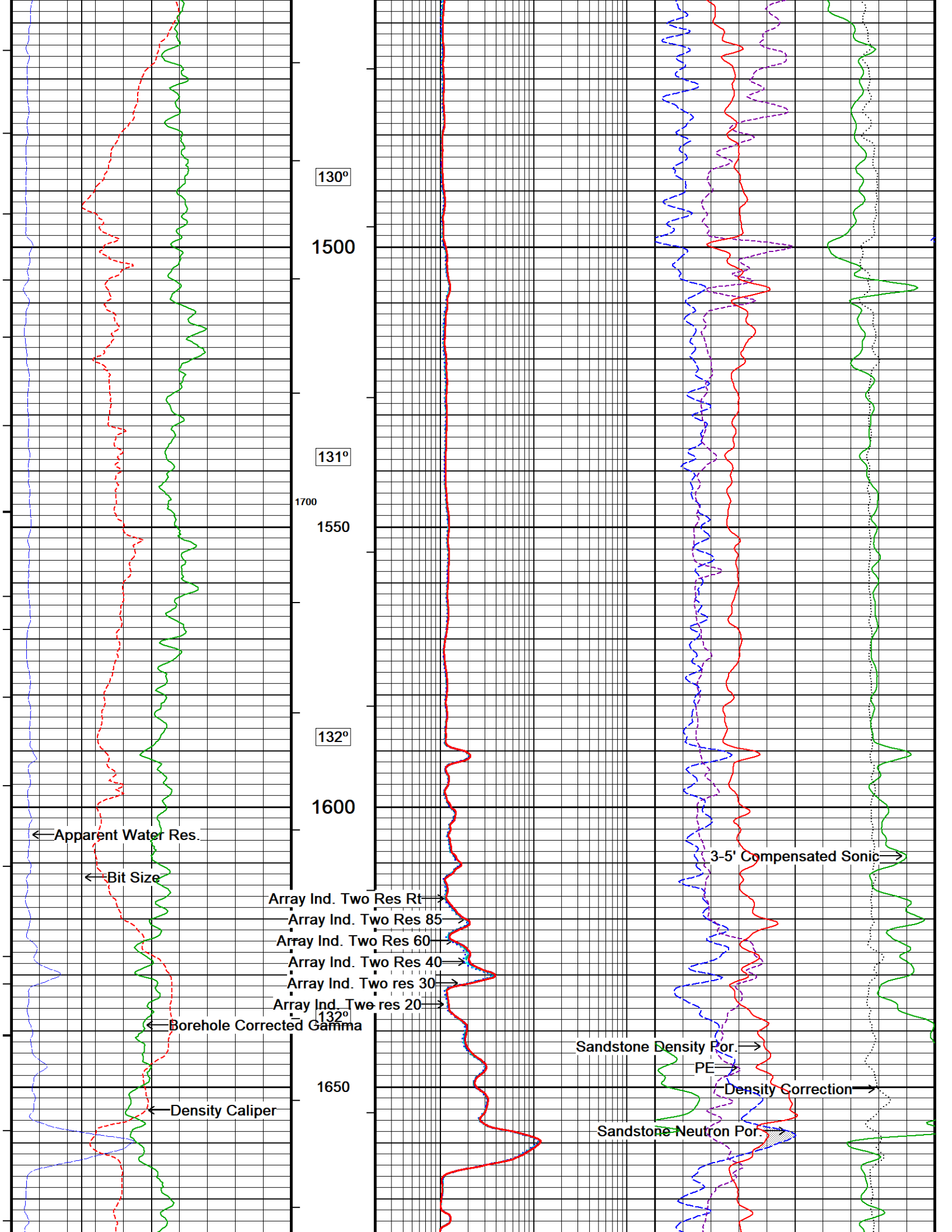


Array Ind. Two res 30 ohm metres

Sandstone Density Por. percent







130°

1500

131°

1700

1550

132°

1600

132°

1650

← Apparent Water Res.

← Bit Size

← Borehole Corrected Gamma

← Density Caliper

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 →

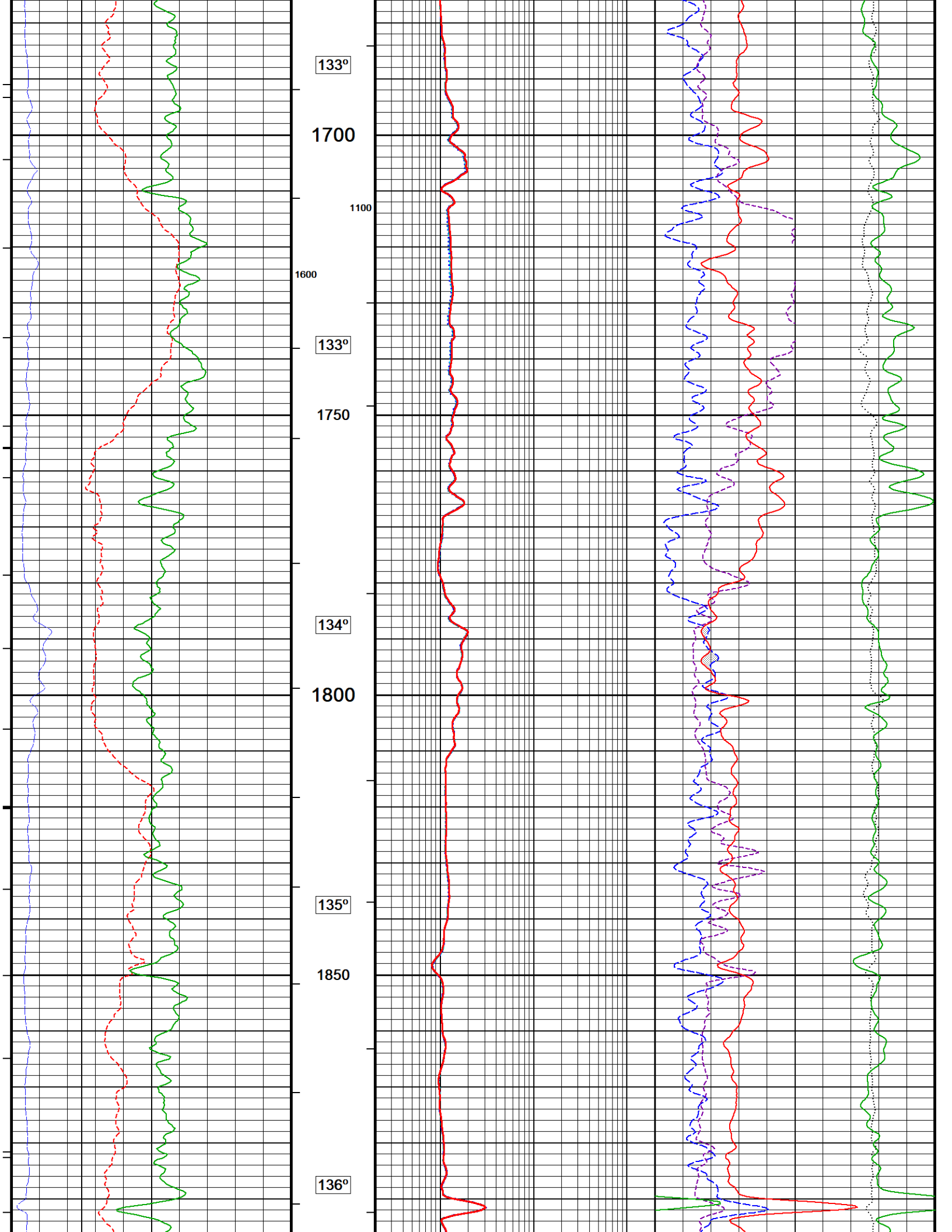
3-5' Compensated Sonic →

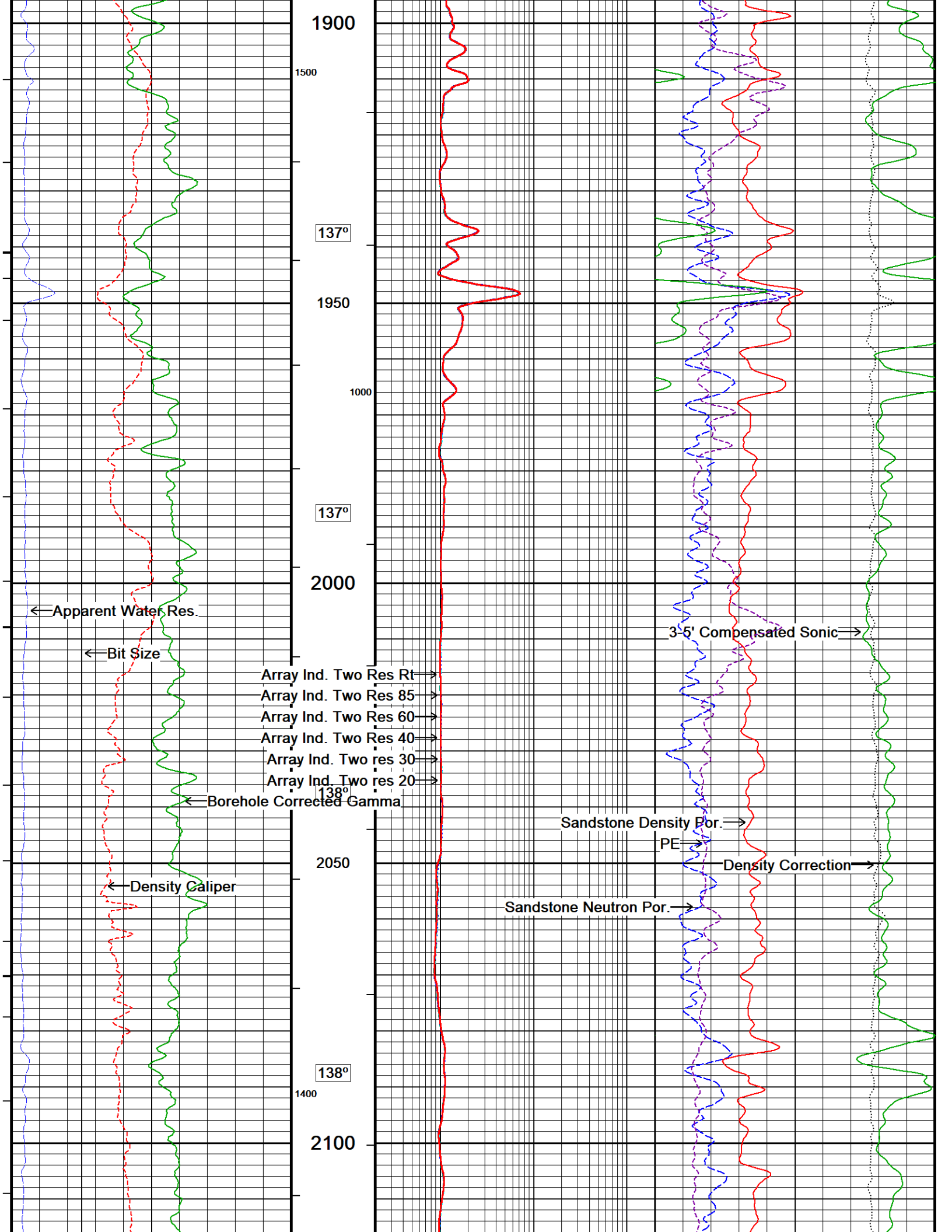
Sandstone Density Por. →

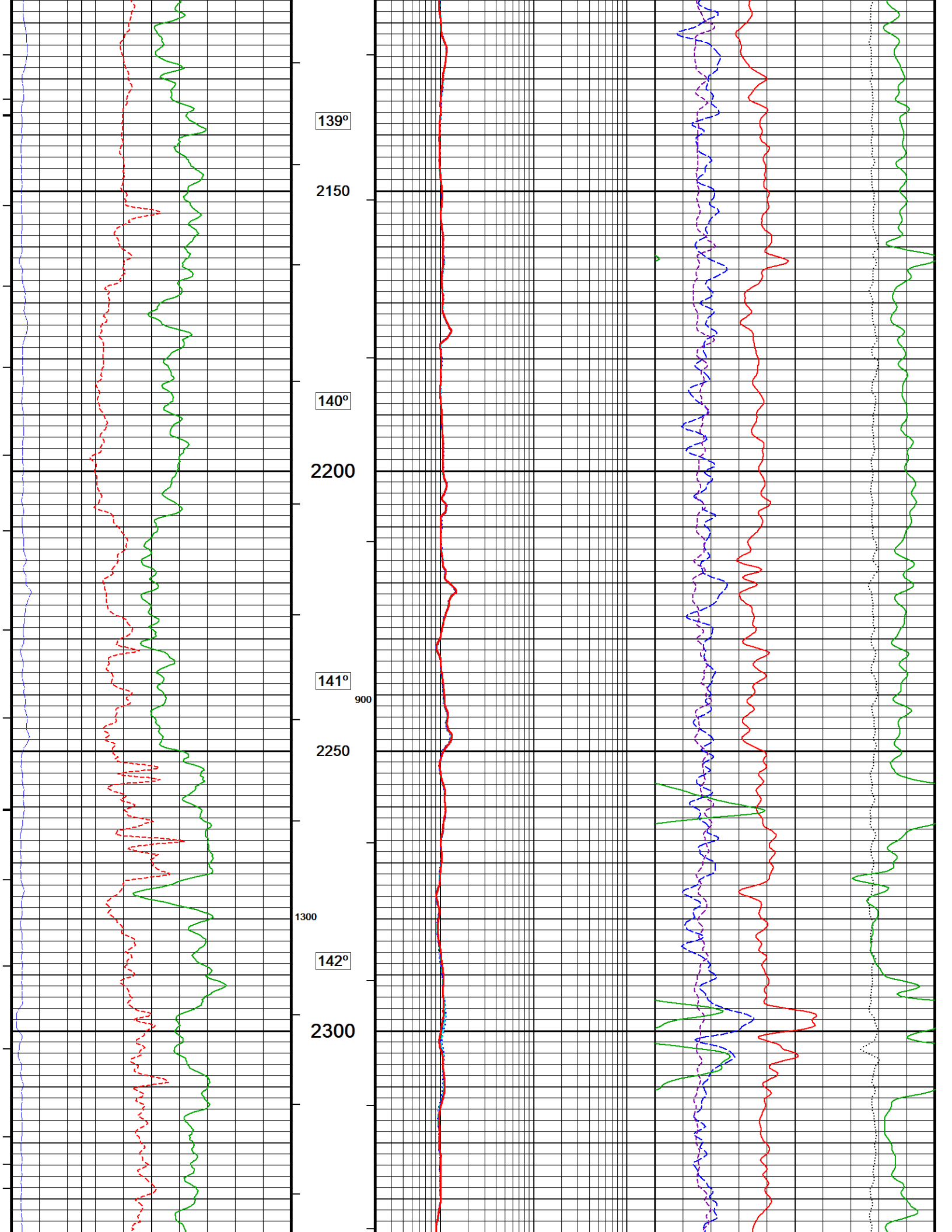
PE →

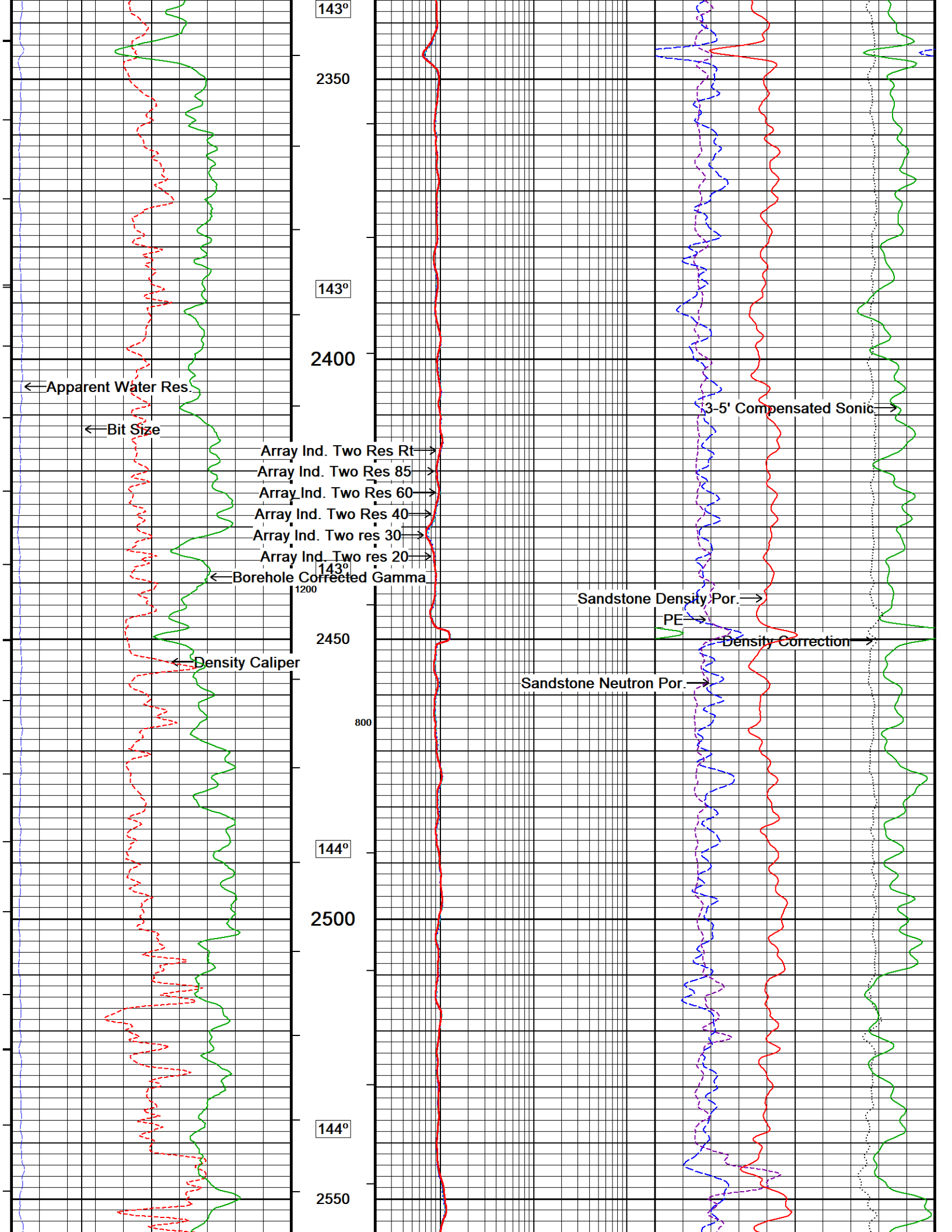
Density Correction →

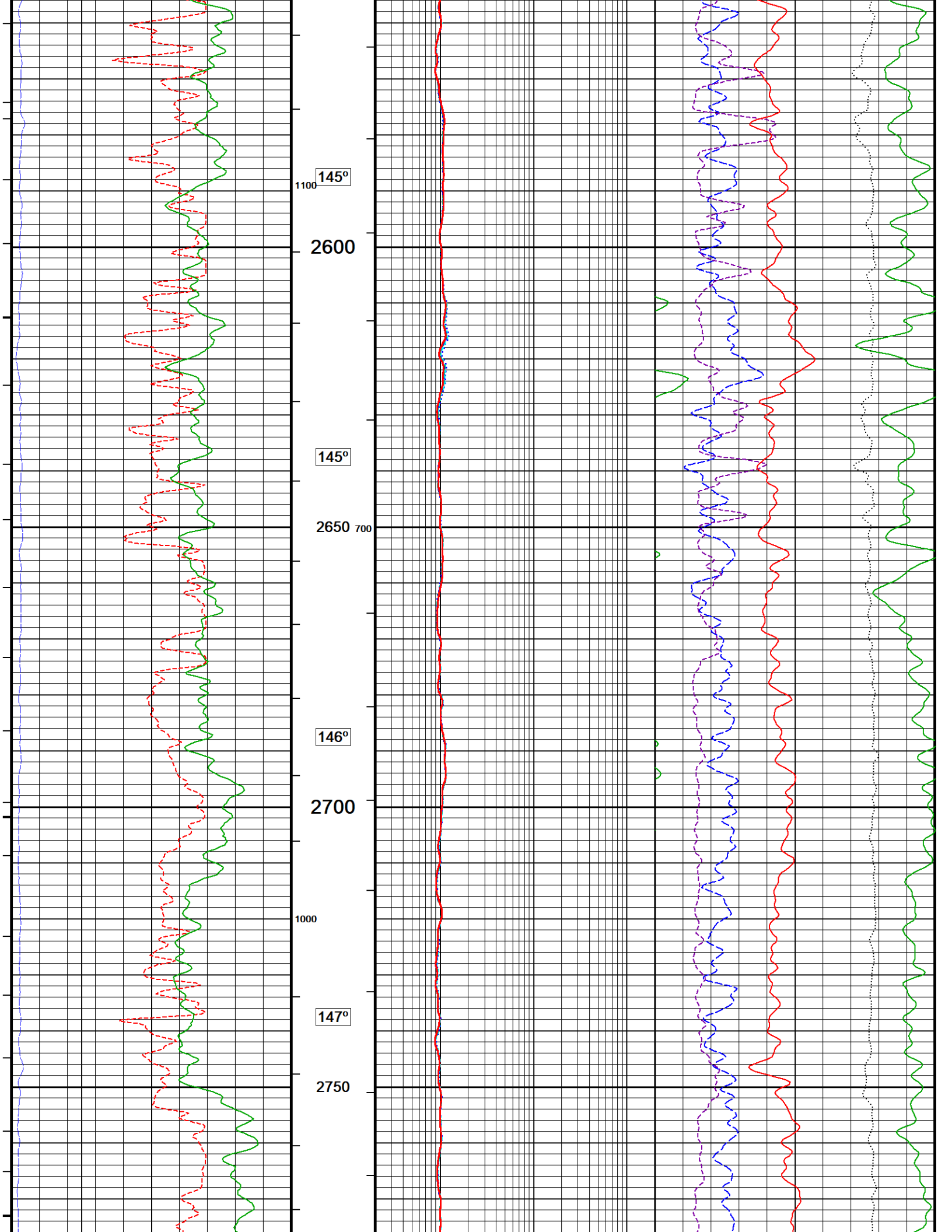
Sandstone Neutron Por. →

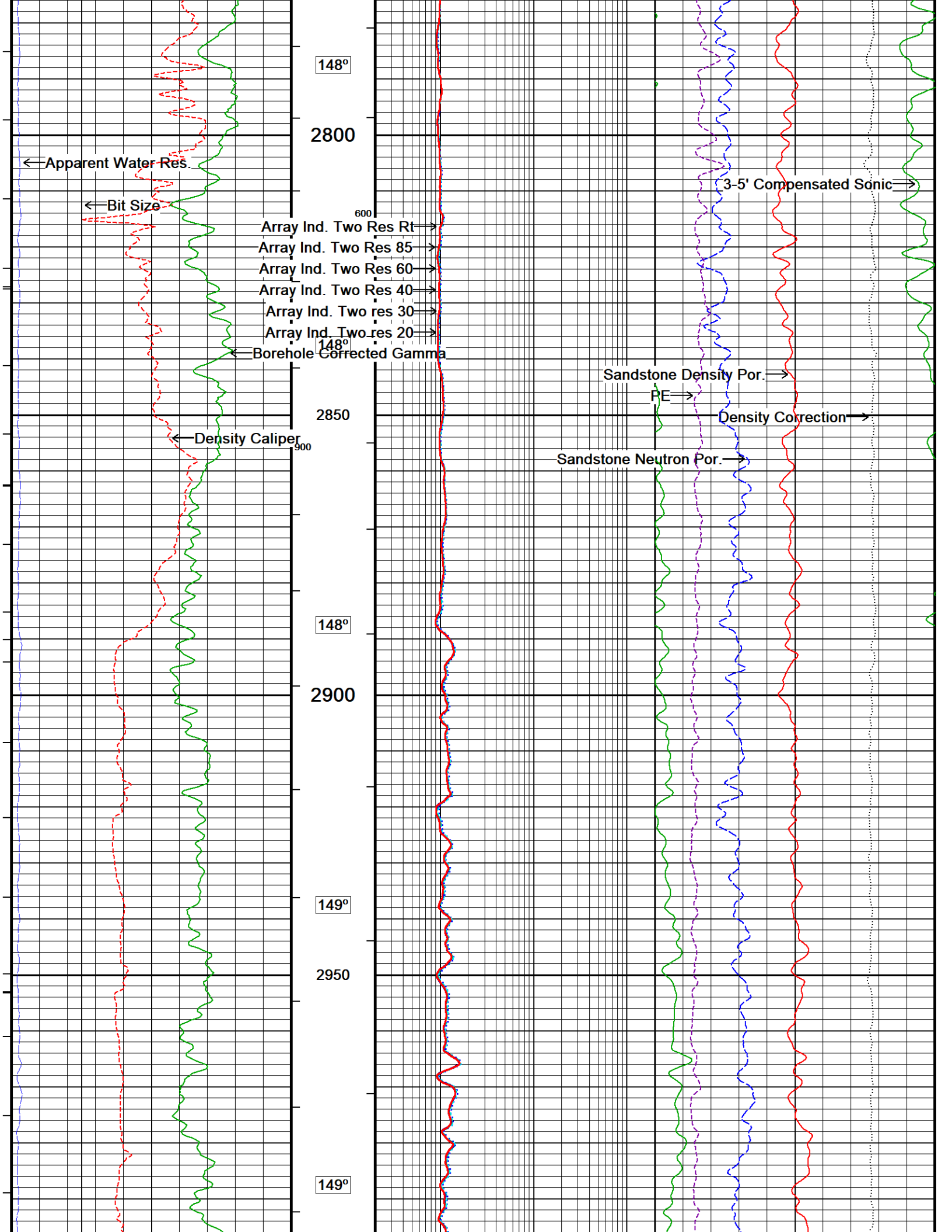


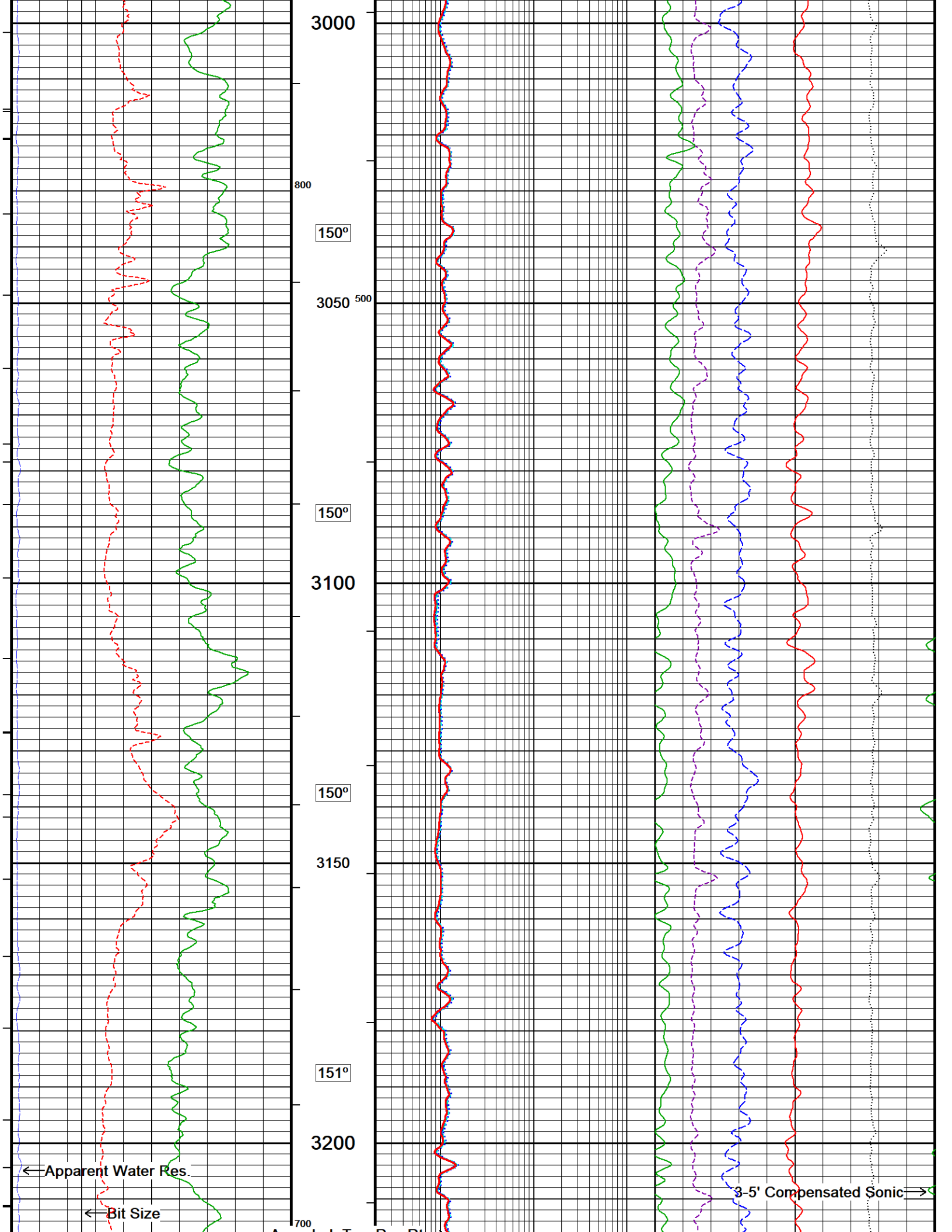


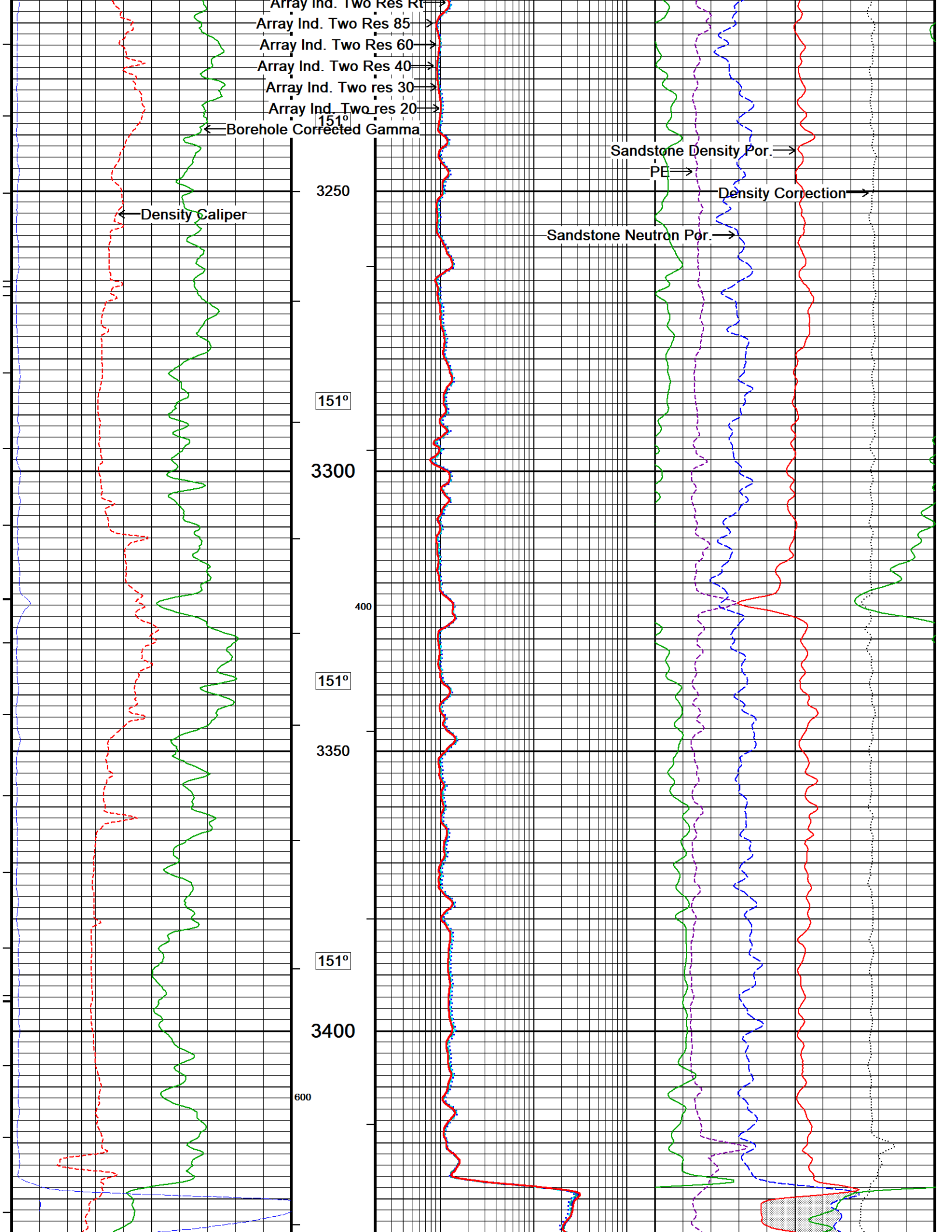


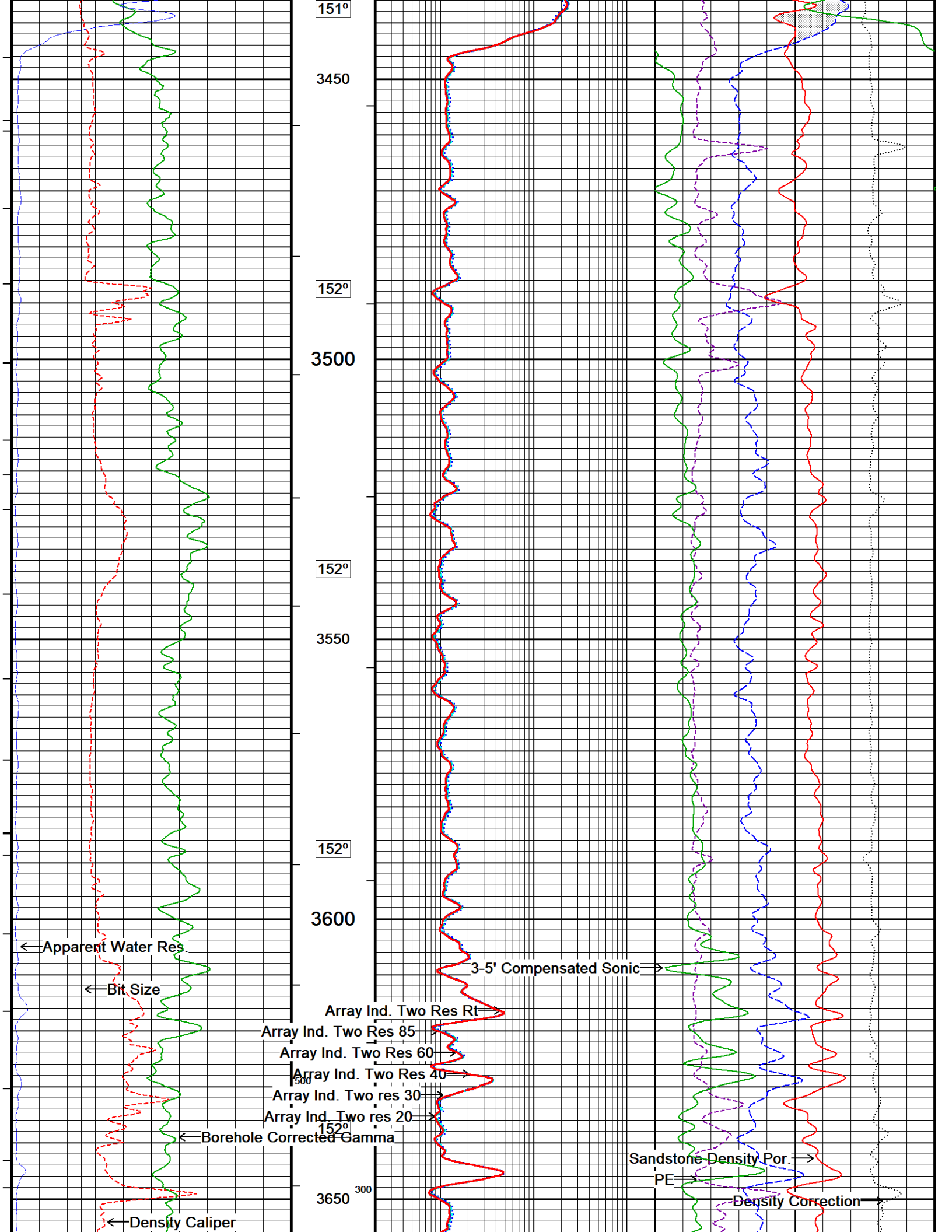


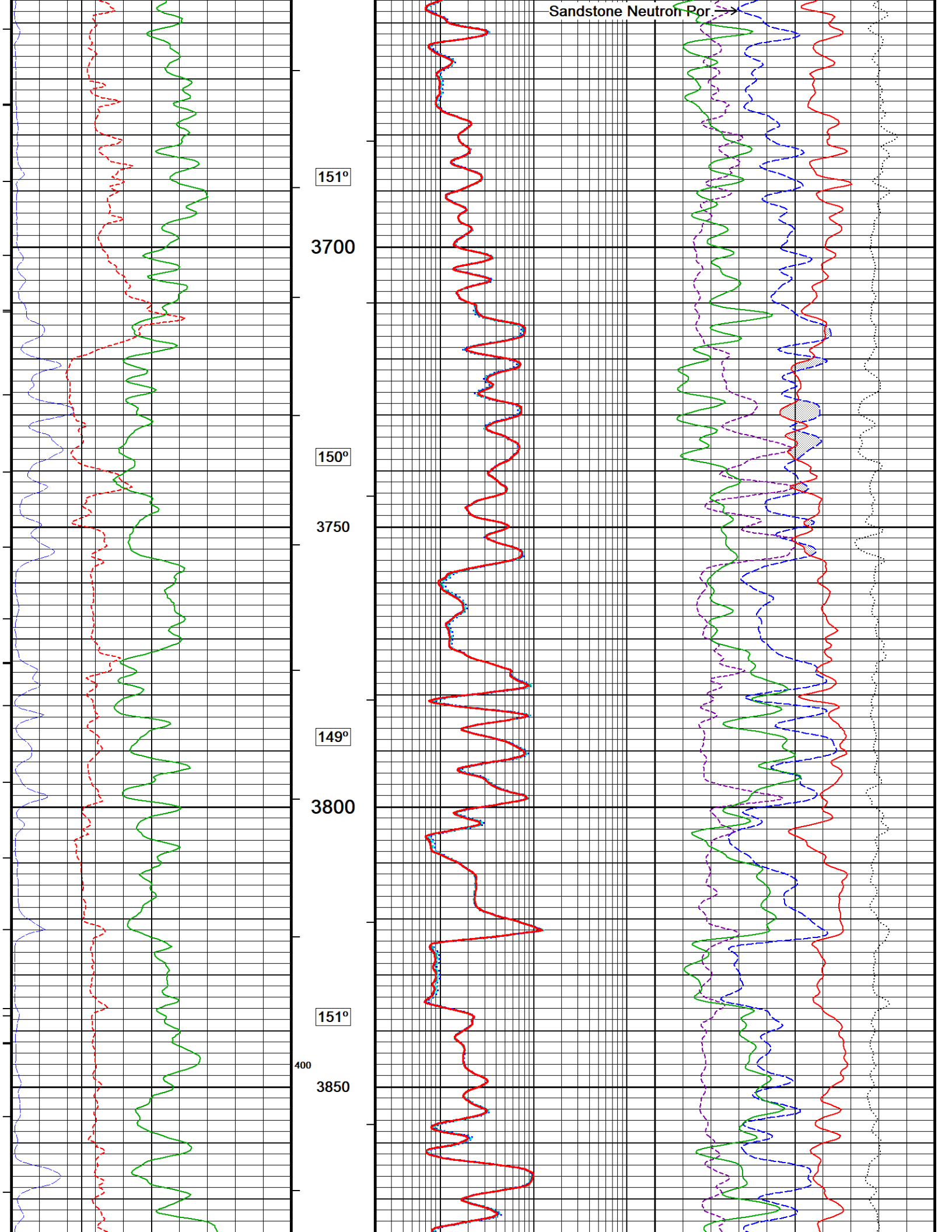


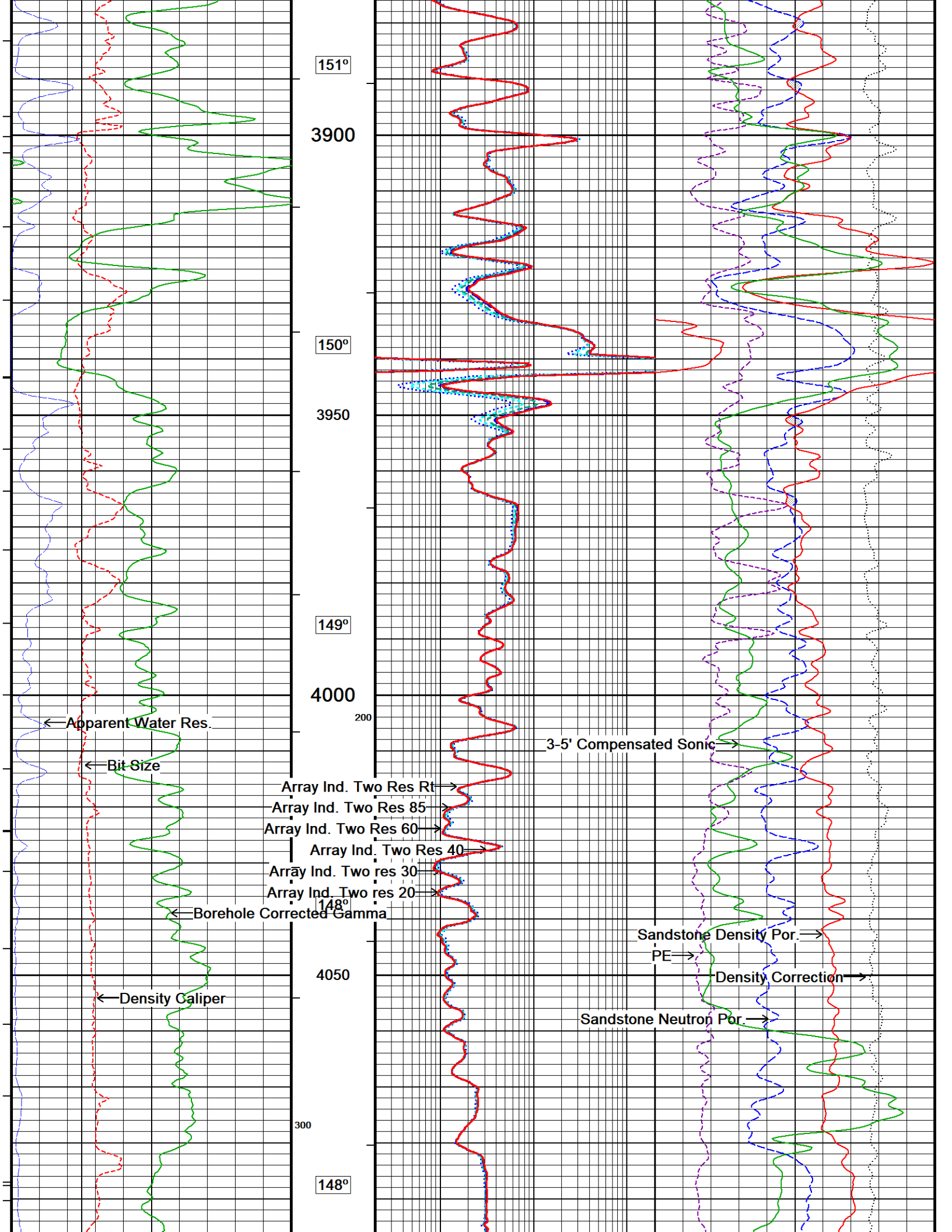


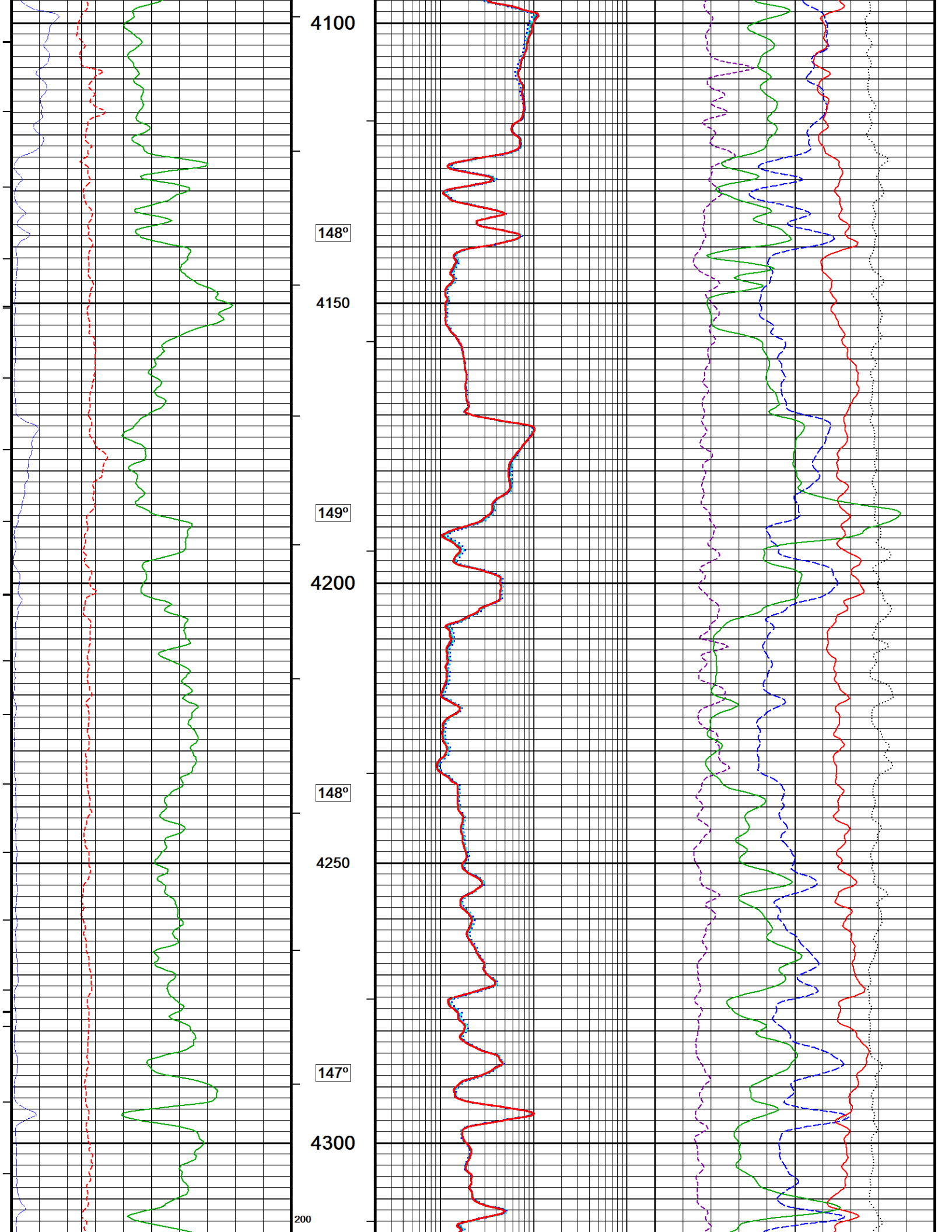


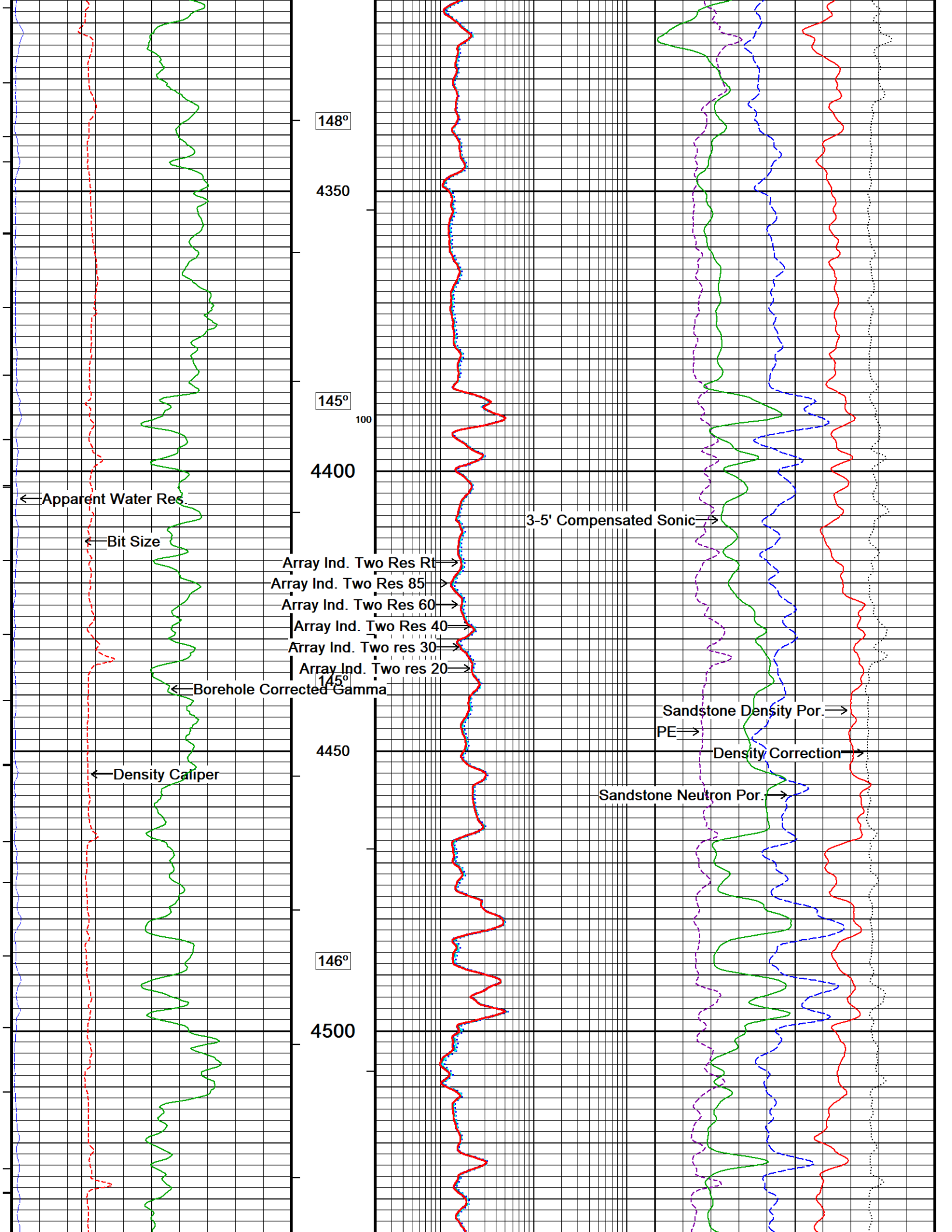


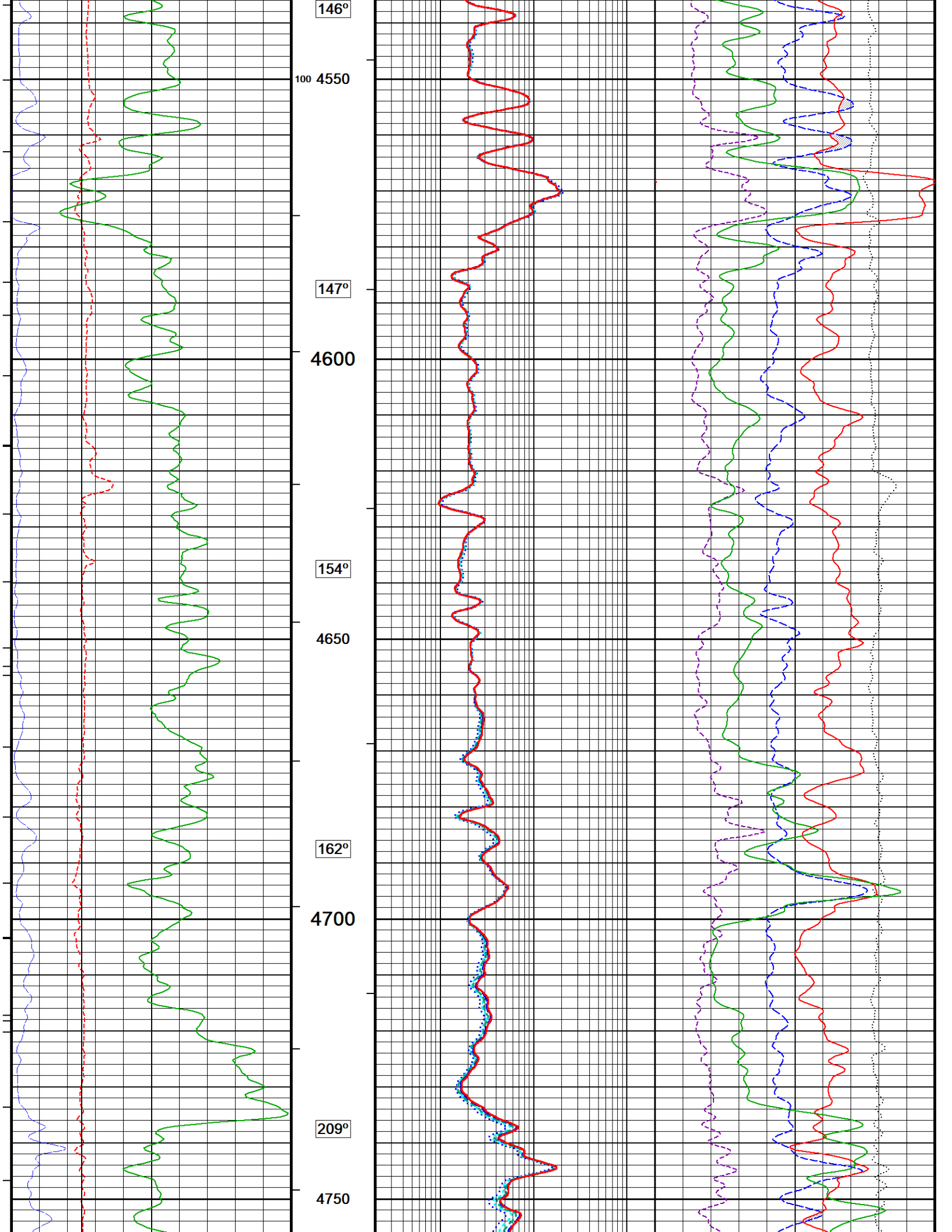


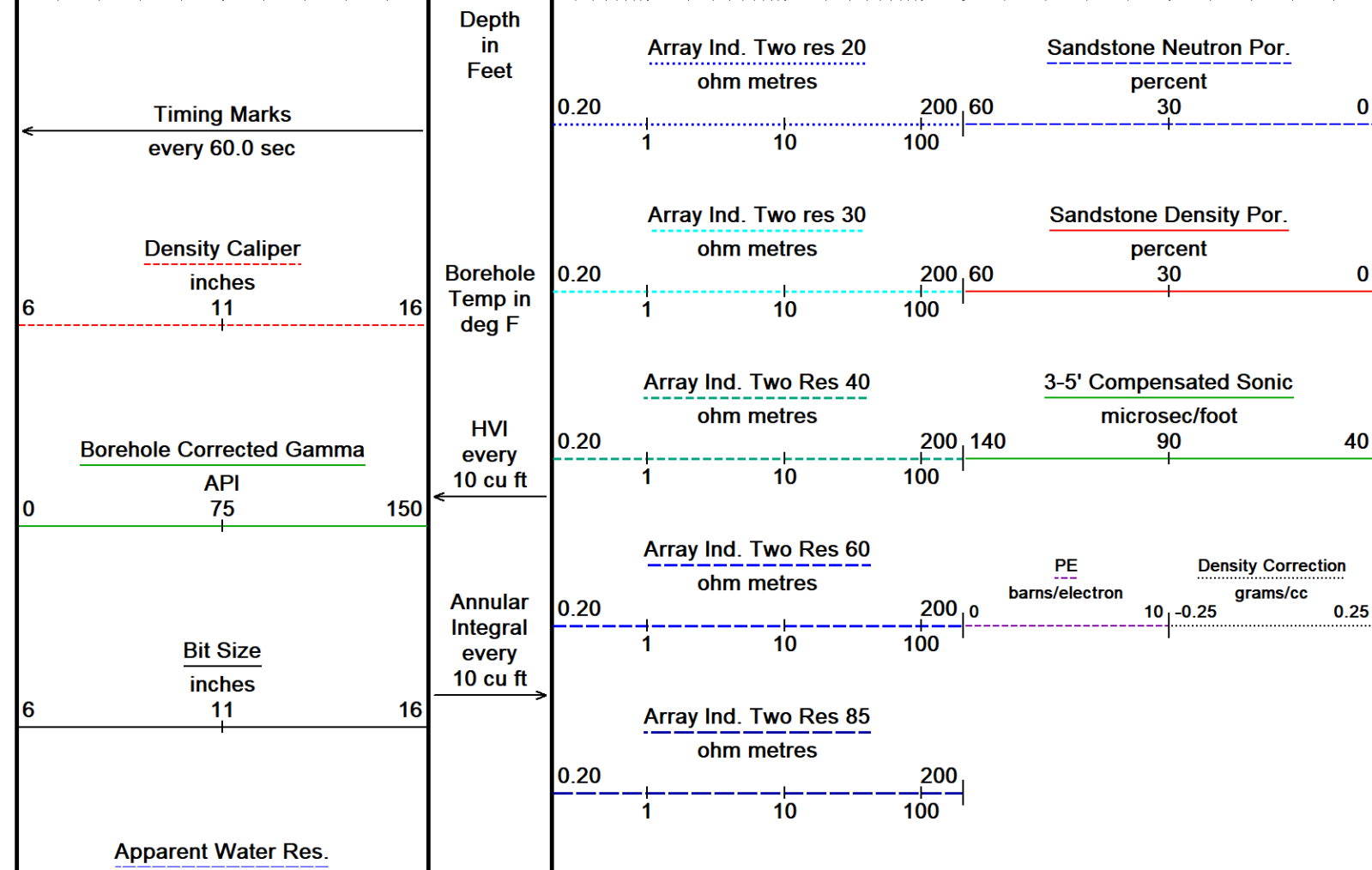
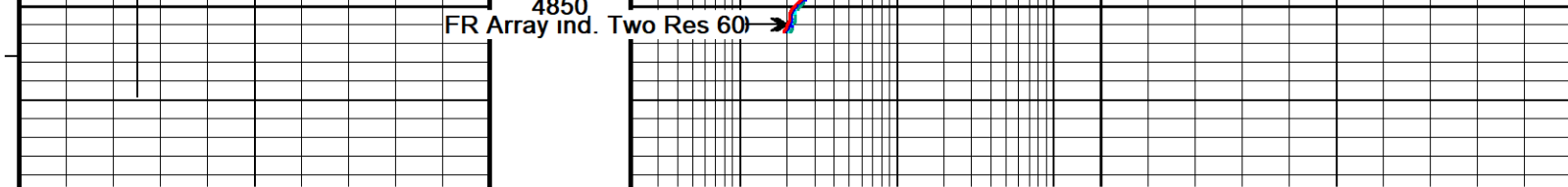
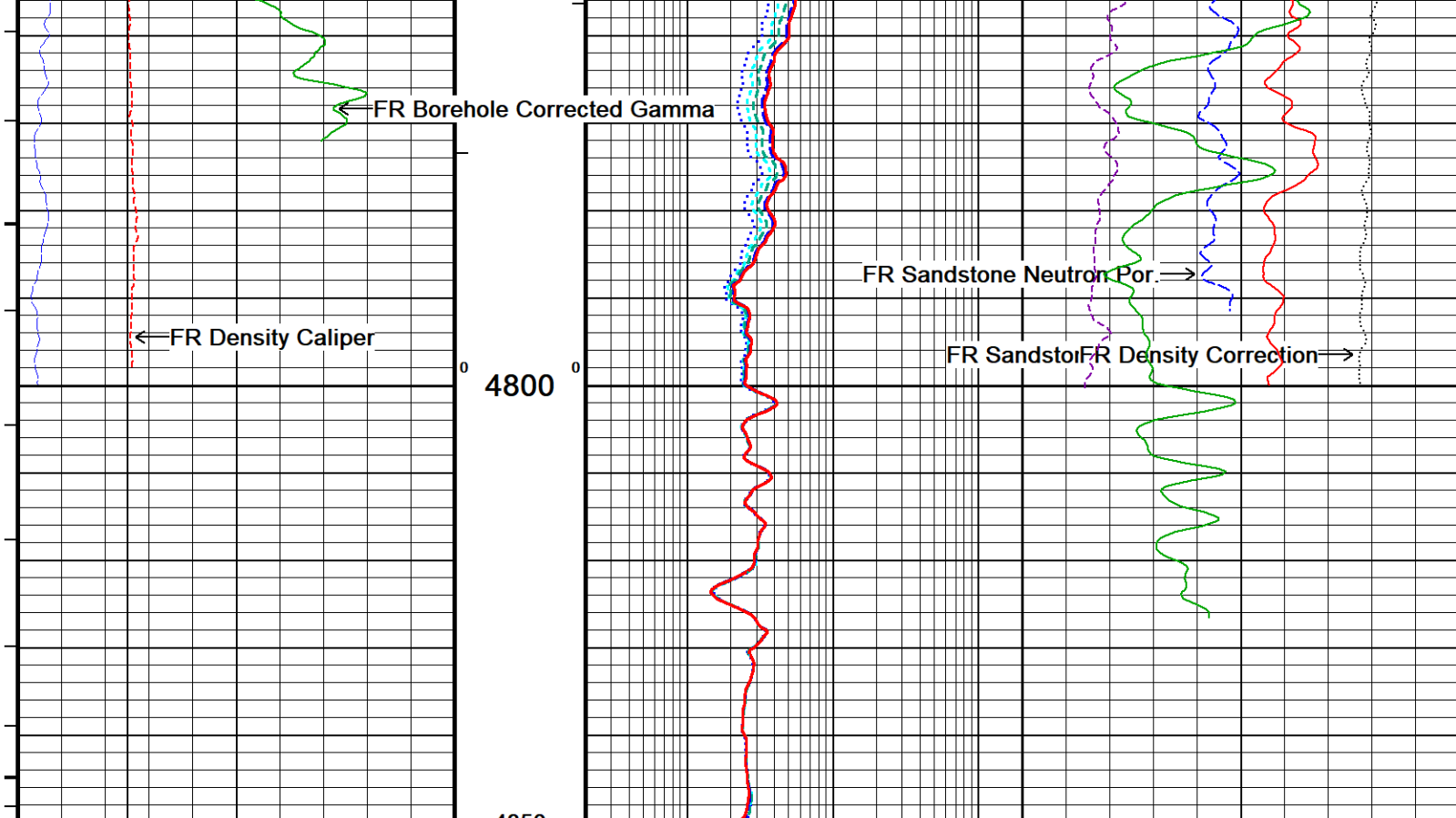


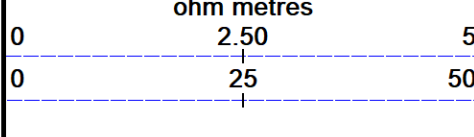




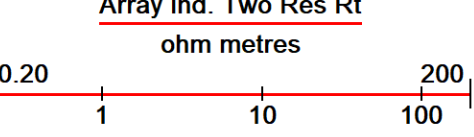








Replay
Scale
1:240



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 04-JAN-2022 18:59
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↑ **5 INCH MAIN PASS** ↑

BEFORE SURVEY CALIBRATION

C:\Users\le181066\AppData\Local\Temp\Weatherford PreView2\0\MAIN PASS.dta

General Constants All 000 Last Edited on 04-JAN-2022,17:28

General Parameters

Mud Resistivity	4.960	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

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	

High Resolution Temperature Calibration MGS-D.A 219 Field Calibration on 03-JAN-2022,11:18

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	100.00	100.00

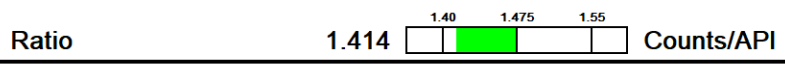
High Resolution Temperature Constants MGS-D.A 219 Last Edited on 08-AUG-2021 18:51

Pre-filter Length 11

Gamma Calibration MGS-D.A 219 Field Calibration on 31-DEC-2021 22:23

	Measured	Calibrated (API)
Background	158	112
Calibrator (Gross)	892	631
Calibrator (Net)	734	519

Gamma Calibration Tolerances MGS-D.A 219



Gamma Constants MGS-D.A 219 Last Edited on 04-JAN-2022,16:48

Gamma Calibrator Number	119	
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	%

Neutron Calibration MDN-C.A 513 Base Calibration on 22-DEC-2021 12:19
Field Check on 03-JAN-2022,09:49

Base Calibration

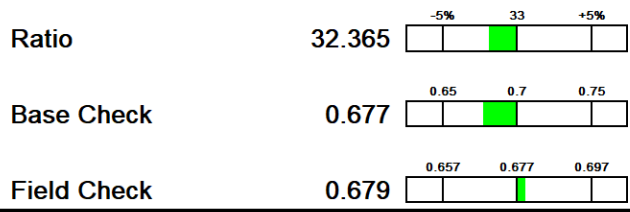
Measured Calibrated (cps)

	Near	Far	Near	Far
	2774	86	3714	110
Ratio	32.365		33.764	

Field Calibrator at Base		Calibrated (cps)
		2206 3260
Ratio		0.677

Field Check		Calibrated (cps)
		2311 3402
Ratio		0.679

Neutron Calibration Tolerances MDN-C.A 513



Neutron Constants MDN-C.A 513

Last Edited on 03-JAN-2022,09:50

Neutron Source Id	P44385B	
Neutron Jig Number	NJ5735	
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	Applied	

Sonic Constants MSS-D.A 401

Last Edited on 03-JAN-2022,11:21

Maximum Boundary Contrast	70.00	micro-sec/ft
Fluid Transit Time	177.00	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	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-C.A 516

Factory Loop Calibration 05-JUL-2021 11:47
Field Check on 31-DEC-2021 21:58

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)	16.0	461.3	9.3	966.2	2.149	-25.1
2	6.3	374.6	7.6	821.4	2.210	-6.3
3	4.2	254.3	5.2	566.0	2.242	-4.1
4 (far)	1.9	131.3	2.6	279.2	2.138	-1.6
Array Temperature	76.1		Deg F			

Tool Checks

31-DEC-2021 21:56

Array	Factory Reference (mmho/m)		Before Survey (mmho/m)		Deg F
	Low	High	Low	High	
1 (near)	-3.7	2085.5	-3.7	2085.7	24.4
2	13.2	1917.0	13.2	1917.1	
3	12.7	1661.3	12.7	1661.4	
4 (far)	9.8	1122.0	9.8	1122.0	
Array Temperature	24.5		24.4		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 516

Low Array 1	-3.7	<input type="text" value="-5.2"/> <input type="text" value="-3.7"/> <input type="text" value="-2.2"/>	mmho/m	High Array 1	2085.7	<input type="text" value="-0.5%"/> <input type="text" value="2085.5"/> <input type="text" value="+0.5%"/>	mmho/m
Low Array 2	13.2	<input type="text" value="11.7"/> <input type="text" value="13.2"/> <input type="text" value="14.7"/>	mmho/m	High Array 2	1917.1	<input type="text" value="-0.5%"/> <input type="text" value="1917.0"/> <input type="text" value="+0.5%"/>	mmho/m
Low Array 3	12.7	<input type="text" value="11.2"/> <input type="text" value="12.7"/> <input type="text" value="14.2"/>	mmho/m	High Array 3	1661.4	<input type="text" value="-0.5%"/> <input type="text" value="1661.3"/> <input type="text" value="+0.5%"/>	mmho/m
Low Array 4	9.8	<input type="text" value="8.3"/> <input type="text" value="9.8"/> <input type="text" value="11.3"/>	mmho/m	High Array 4	1122.0	<input type="text" value="-0.5%"/> <input type="text" value="1122.0"/> <input type="text" value="+0.5%"/>	mmho/m

Induction Constants MAI-C.A 516

Last Edited on 03-JAN-2022,11:20

Induction Model RtAP-WBM

Borehole Correction Constants

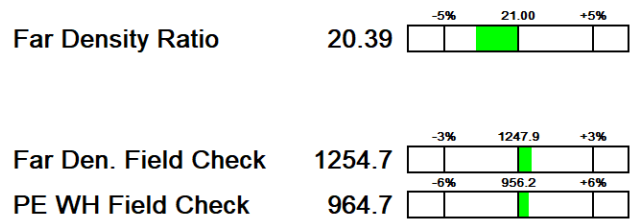
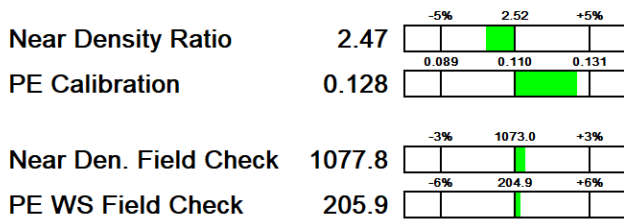
Borehole Correction Constants		Yes	
Tool Centred		Density Caliper	
Hole Size Source		N/A	inches
Hole Size Constant Value		N/A	
Stand-off Type		N/A	inches
Stand-off		N/A	
Number of Fins on Stand-off		N/A	
Stand-off Fin Angle		N/A	degrees
Stand-off Fin Width		N/A	inches
Rm Source	Global Value: Temperature Corrected		
Temp. for Rm Corr.	MGS External Temperature		
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		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	

Photo Density Calibration MPD-D.A 497

Base Calibration on 27-DEC-2021 11:27
Field Check on 31-DEC-2021 22:06

Density Calibration		Measured		Calibrated (sdu)	
Base Calibration		Near	Far	Near	Far
Background		1073	1248		
Reference 1		41805	19736	59554	30868
Reference 2		17559	2155	25087	2540
Field Check at Base		1073.0	1247.9		
Field Check		1077.8	1254.7		
PE Calibration		Measured		Calibrated	
Base Calibration		WS	WH	Ratio	Ratio
Background		205	956		
Reference 1	18447	41647	0.448	0.364	
Reference 2	5490	17440	0.321	0.273	
Field Check at Base		204.9	956.2		

Photo Density Calibration Tolerances MPD-D.A 497



Density Constants MPD-D.A 497

Last Edited on 03-JAN-2022,11:19

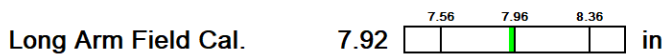
Density Source Id	P44268B	
Nylon Calibrator Number	DNCE765	
Aluminium Calibrator Number	DACD612	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.33	gm/cc
Mud Density Type	Barite	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud 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	
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	0.00	

Caliper Calibration MPD-D.A 497

Base Calibration on 27-DEC-2021 11:07
Field Calibration on 31-DEC-2021 22:01

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	16481	3.99
2	25974	5.96
3	36002	7.96
4	45722	9.85
5	56770	11.92
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.92	7.96

Caliper Calibration Tolerances MPD-D.A 497



DOWNHOLE EQUIPMENT

C:\Users\le181066\AppData\Local\Temp\Weatherford PreView2\0\MAIN PASS.dta

Shuttle Running Tool 3.5"
SRT-AA81 LG: 5.90 ft WT: 37.5 lb OD: 2.520 in

Compact Swivel Head Adaptor
SHA-J.B 707 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in



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

200v Compact Battery Sub
MBS-G.A 126 LG: 17.06 ft WT: 123.5 lb OD: 2.240 in

Compact Memory Sub F.A
MMS-F.A 257 LG: 5.20 ft WT: 37.5 lb OD: 2.244 in

Compact Short Gamma
MGS-D.A 219 LG: 3.41 ft WT: 24.3 lb OD: 2.244 in

Compact Collar Locator
MCL-C.A 129 LG: 3.17 ft WT: 26.5 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 739 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Swivel Head Adaptor
SHA-J.B 724 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Inline Bowspring sub
MIS-D.B 815 LG: 5.70 ft WT: 33.1 lb OD: 2.244 in

Compact Neutron
MDN-C.A 513 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper
MPD-D.A 497 LG: 9.59 ft WT: 90.4 lb OD: 2.244 in

Compact Vee Arm Caliper
MVC-A.A 134 LG: 8.06 ft WT: 61.7 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 474 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Tool Isolator sub.
MTI-C.A 147 LG: 1.54 ft WT: 13.2 lb OD: 2.244 in

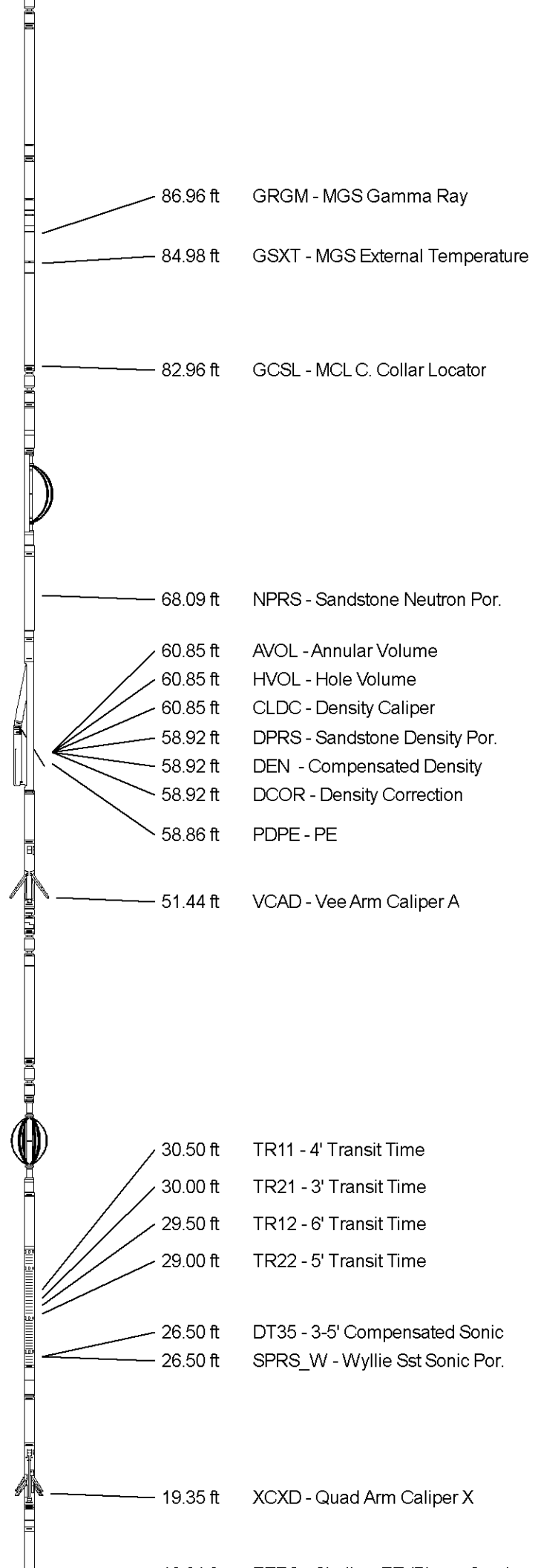
Compact Knuckle Joint
SKJ-E.B 731 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Inline Bowspring sub
MIS-D.B 822 LG: 5.70 ft WT: 33.1 lb OD: 2.240 in

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

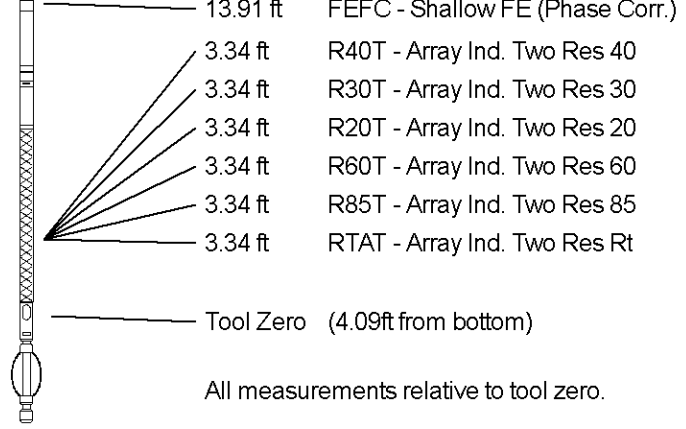
Compact Quad Arm Caliper
MXC-B.A 107 LG: 7.49 ft WT: 77.2 lb OD: 2.240 in

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



Compact Induction
 MAI-C.A.516 LG: 14.76 ft WT: 48.5 lb OD: 2.240 in

Total Length: 124.46 ft Weight: 919.3 lb



COMPANY	SNAKE RIVER OIL AND GAS, LLC
WELL	DUTCH LANE 1-13
FIELD	WILDCAT
PROVINCE/COUNTY	PAYETTE
COUNTRY/STATE	U.S.A. / IDAHO

Elevation Kelly Bushing	2179.00	feet	Last Reading	1119.00	feet
Elevation Drill Floor	2179.00	feet	First Reading	4852.00	feet
Elevation Ground Level	2166.50	feet	Depth Driller	4875.00	feet
			Depth Logger	4875.00	feet



Weatherford[®]

MEASURED DEPTH
 COMPACT QUAD COMBO