

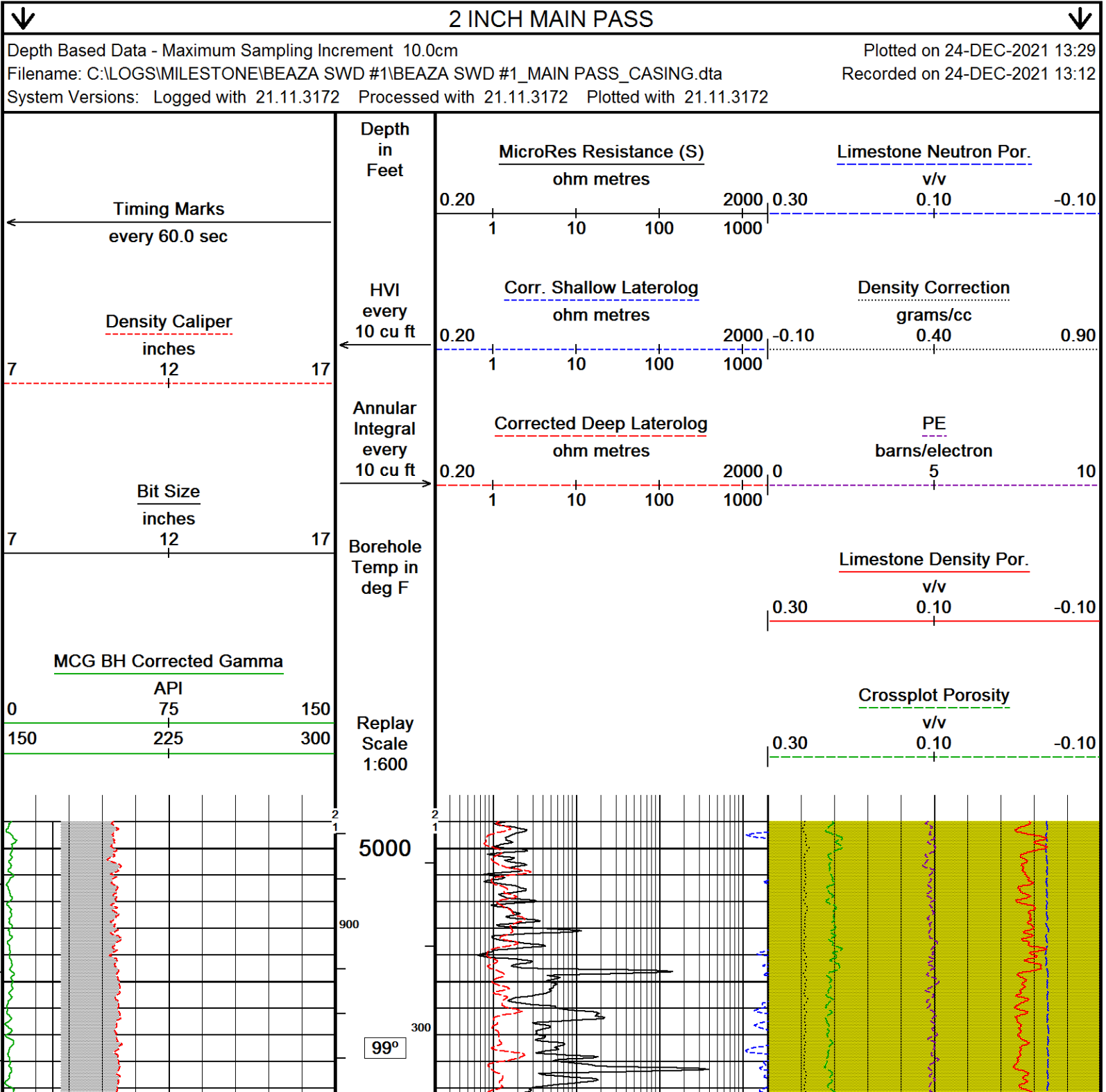
WIRELINE LOGGING SOLUTIONS			DUAL LATEROLOG MICRO LATEROLOG GAMMA RAY		
COMPANY			MILESTONE ENVIRONMENTAL SERVICES LLC		
WELL			BAEZA SWD #1		
FIELD			SWD; BELL CANYON-CHERRY CANYON		
PROVINCE/COUNTY			LEA		
COUNTRY/STATE			U.S.A. / NEW MEXICO		
LOCATION			SEC. 25 T-25S RGE. 34E 2480' FNL & 160' FEL		
API Number	35-025-49600	Other Services	COMPENSATED NEUTRON		
Permit Number	32.1889287	PHOTO-DENSITY			
Latitude	-103.4156701				
Longitude					
Permanent Datum GL, Elevation 3357 feet			Elevations: feet		
Log Measured From KB, 17.00 feet above Permanent Datum			KB 3374.00		
Drilling Measured From KB			DF 3373.00		
			GL 3357.00		
Date	24-DEC-2021				
Run Number	ONE				
Service Order	TT-211724WFT				
Depth Driller	7242.00	feet			
Depth Logger	7250.00	feet			
First Reading	7236.00	feet			
Last Reading	1454.00	feet			
Casing Driller	1450.00	feet			
Casing Logger	1454.00	feet			
Bit Size	8.500	inches			
Hole Fluid Type	BRINE				
Density / Viscosity	10.10 lb/USg	28.00 sec/qt			
PH / Fluid Loss	10.80	100.00 ml/30Min			
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.052 @ 87.0	ohm-m			
Rmf @ Measured Temp	0.039 @ 87.0	ohm-m			
Rmc @ Measured Temp	0.065 @ 87.0	ohm-m			
Source Rmf / Rmc	CALC	CALC			
Rm @ BHT	0.043 @108.0	ohm-m			
Time Since Circulation	6.5 HOURS				
Max Recorded Temp	108.00	deg F			
Equipment / Base	11007	MTX			
Recorded By	MICHAEL RATHS				
Witnessed By	BILL HEARD				
Rig	STONEHAM #5				

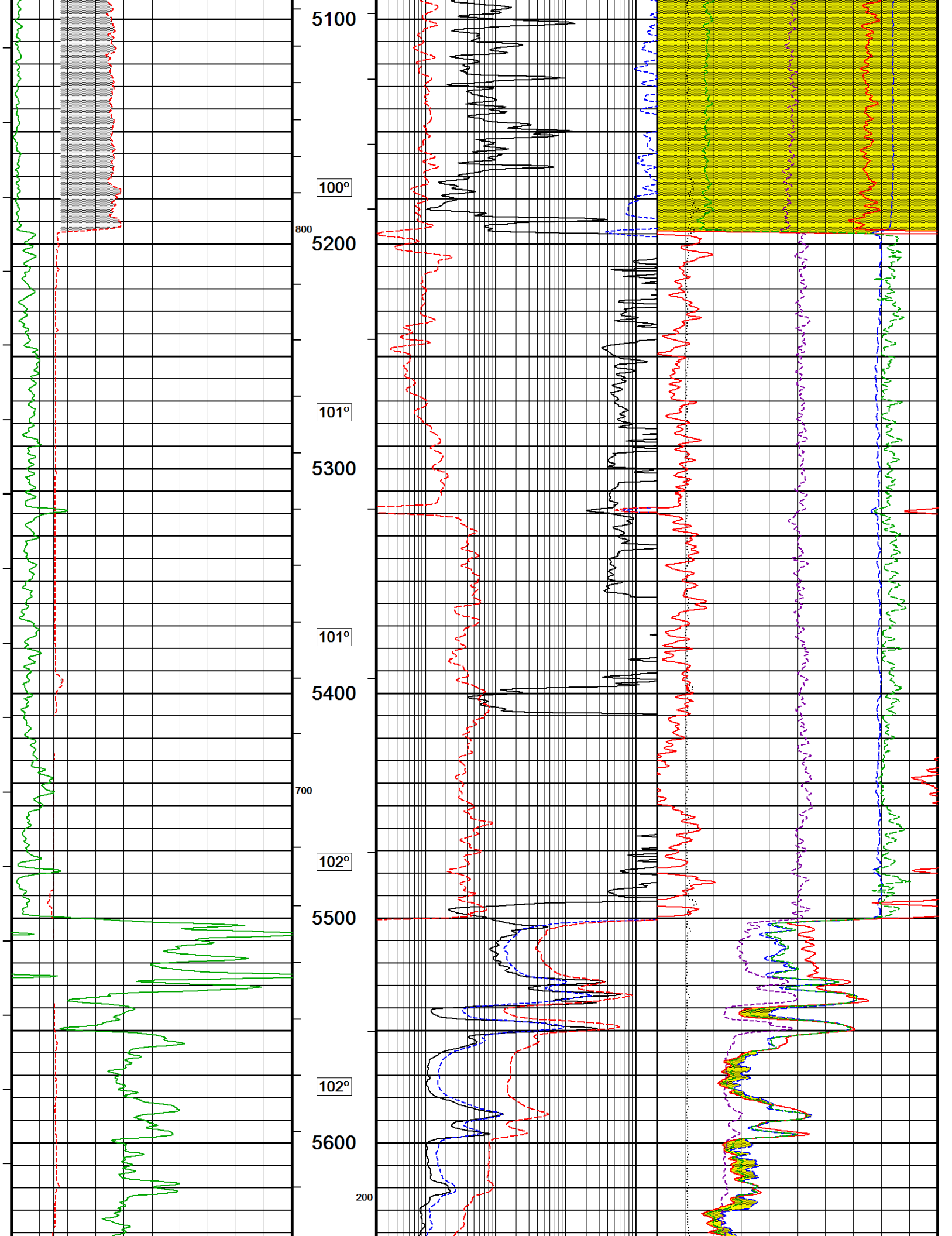
BOREHOLE RECORD					Last Edited: 24-DEC-2021 13:16
Bit Size inches		Depth From feet		Depth To feet	
12.250		0.00		1454.00	
8.500		1454.00		7250.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	9.625	0.00	1454.00	40.00	

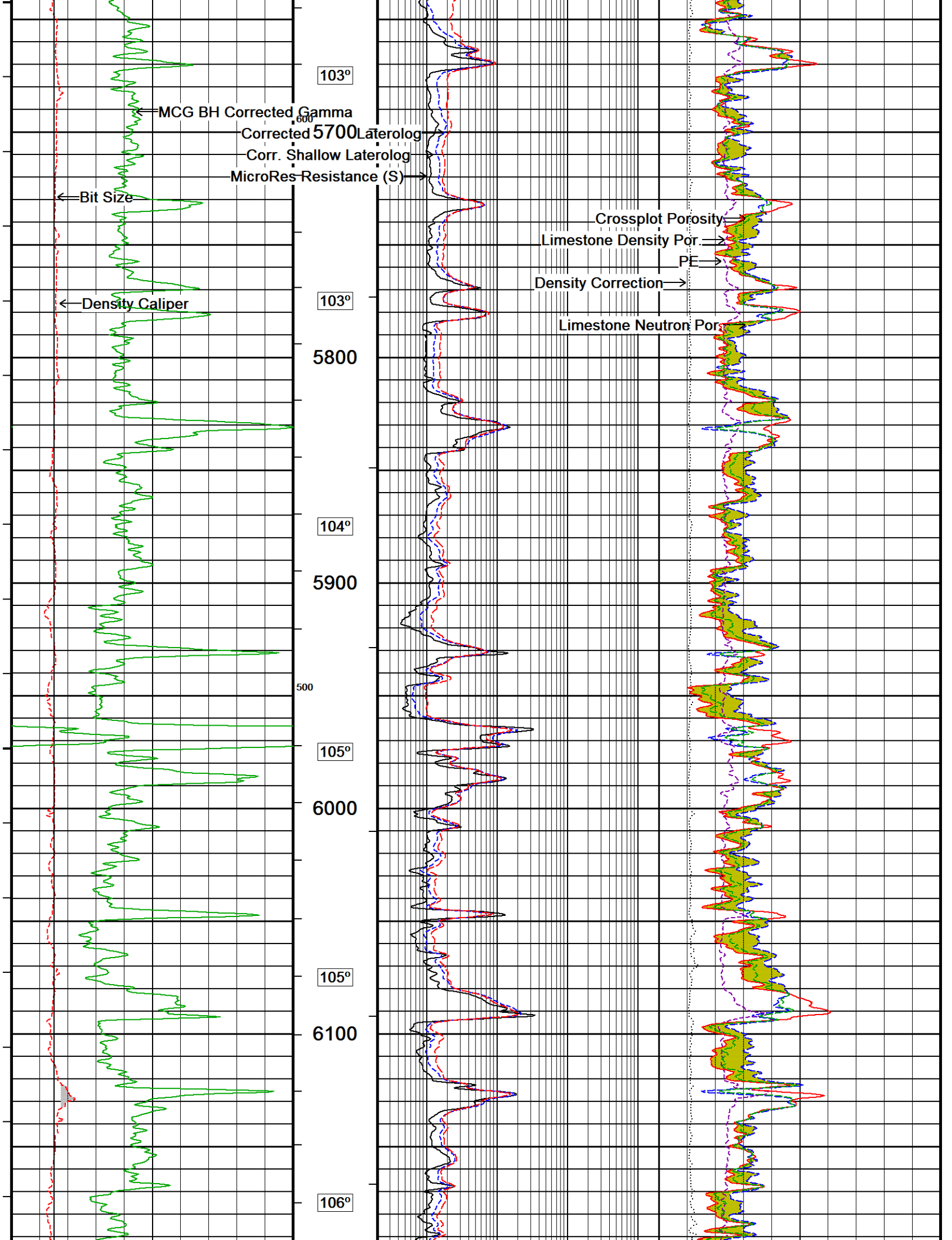
REMARKS
WLS VERSION 21.11
- TOOLSTRING: RUN 1 : BRINE TRIPLE COMBO
- HARDWARE USED: MDL: 1.0" STANDOFF MDN: DUAL ECCENTERED BOWSPRING
- 2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.
- ANNULAR HOLE VOLUME WITH 7.0 INCH PRODUCTION CASING FROM TD TO SURFACE CASING
- CREW KEIFER GATLIN, JEFF DEGABRIELE

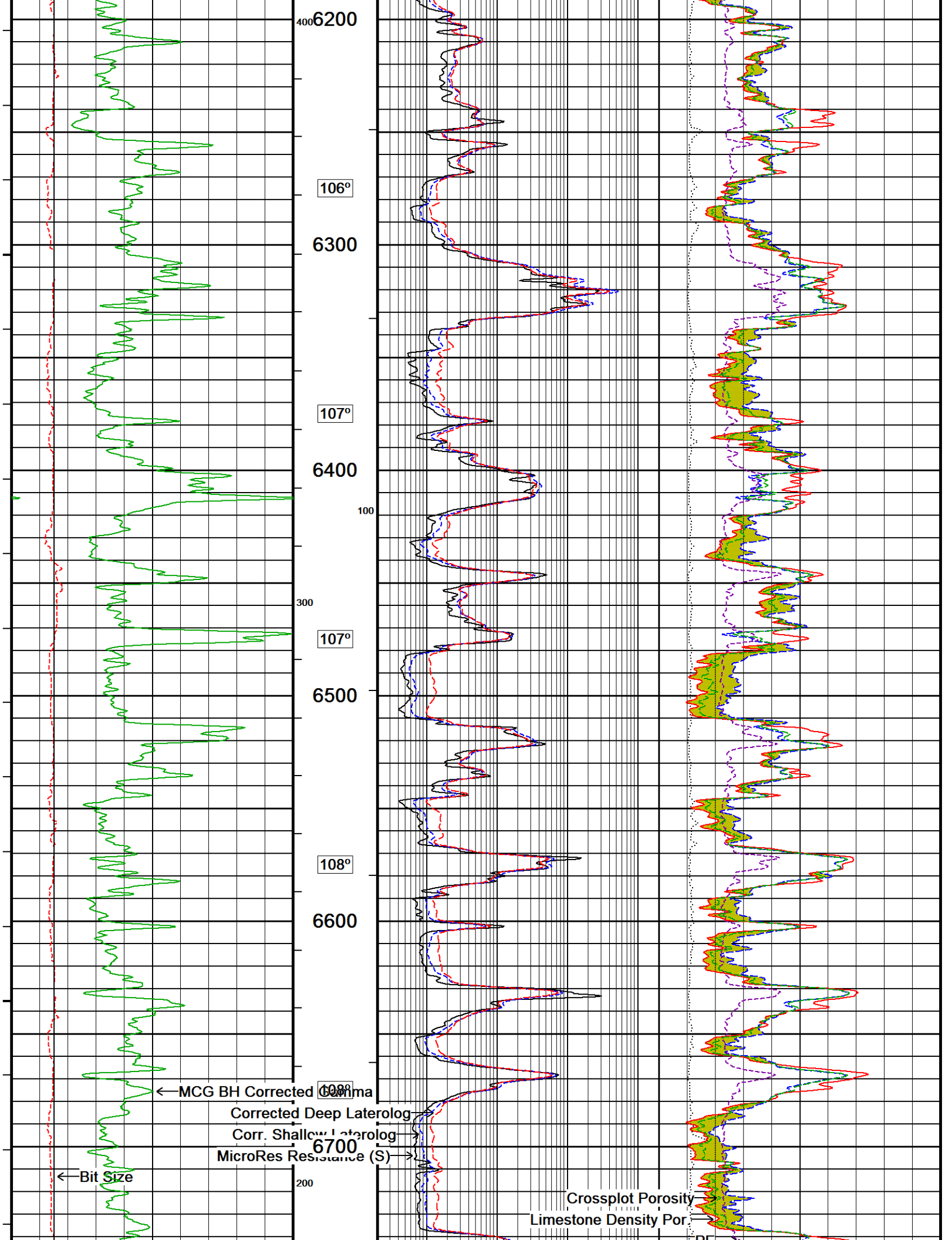
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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

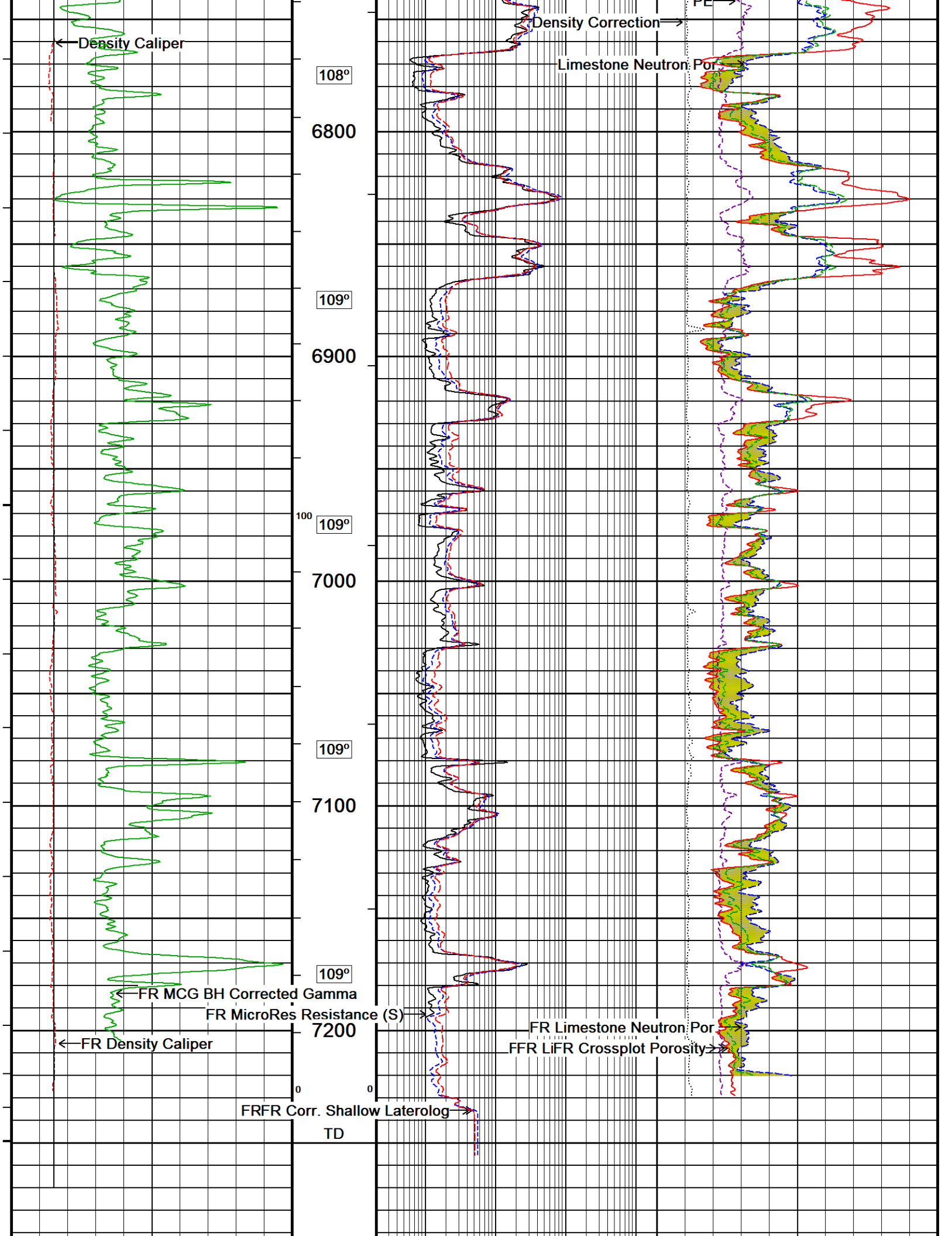
 Powered by Weatherford tools, acquisition systems, and software

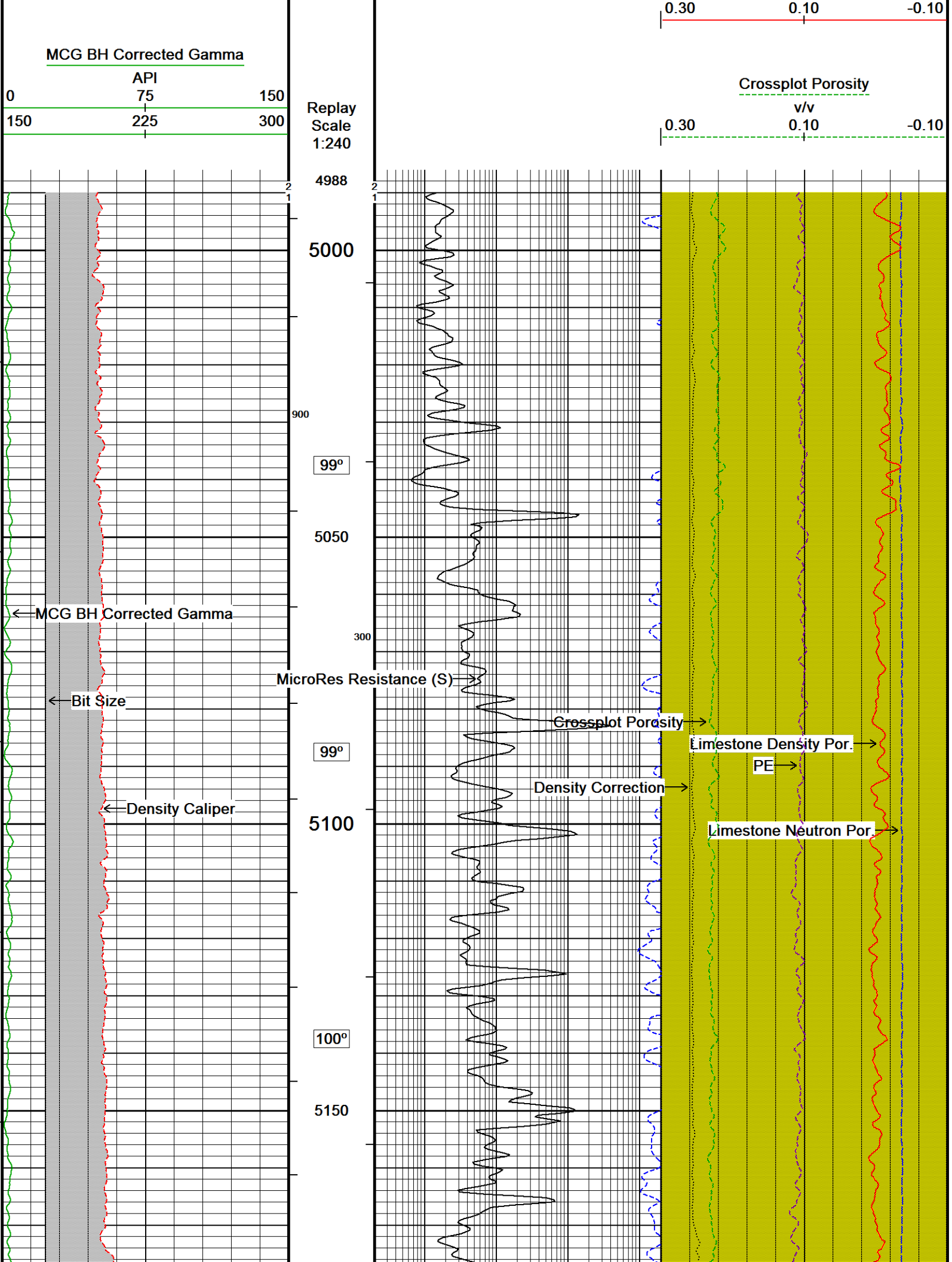


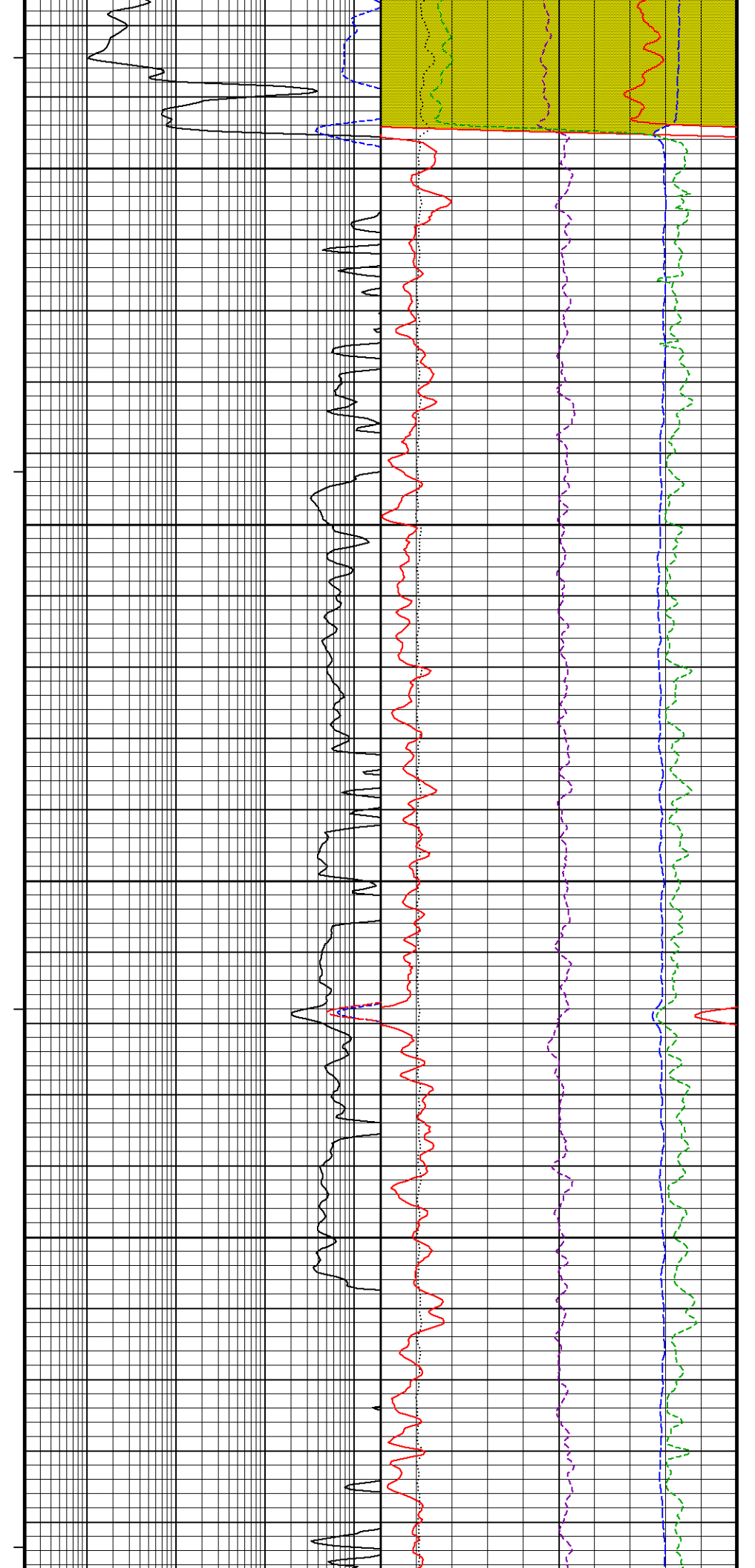
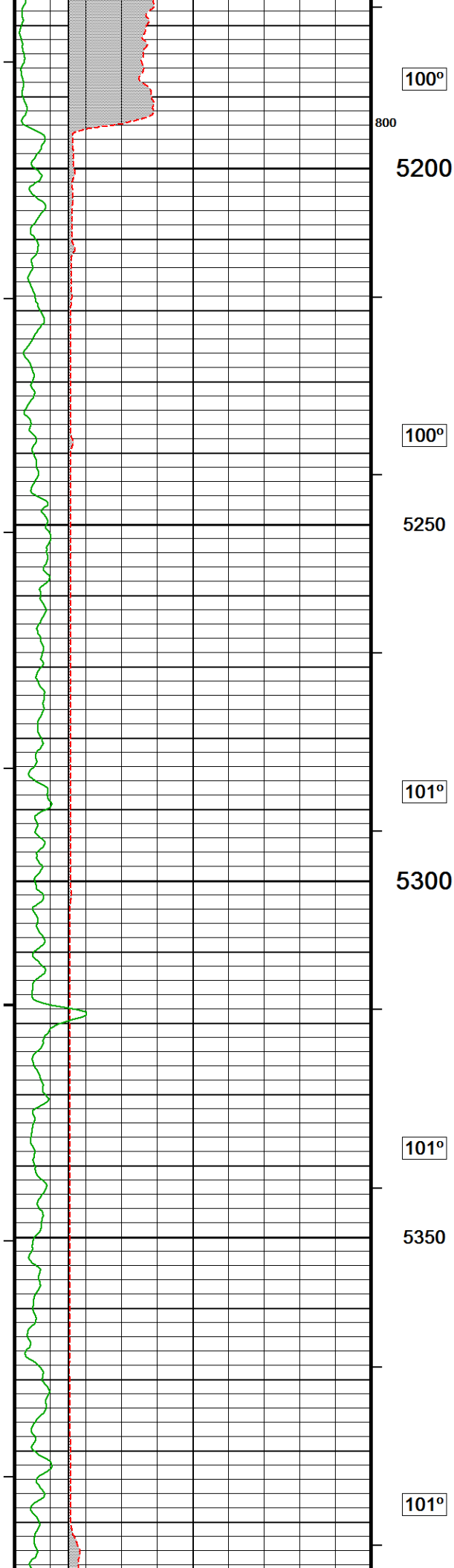


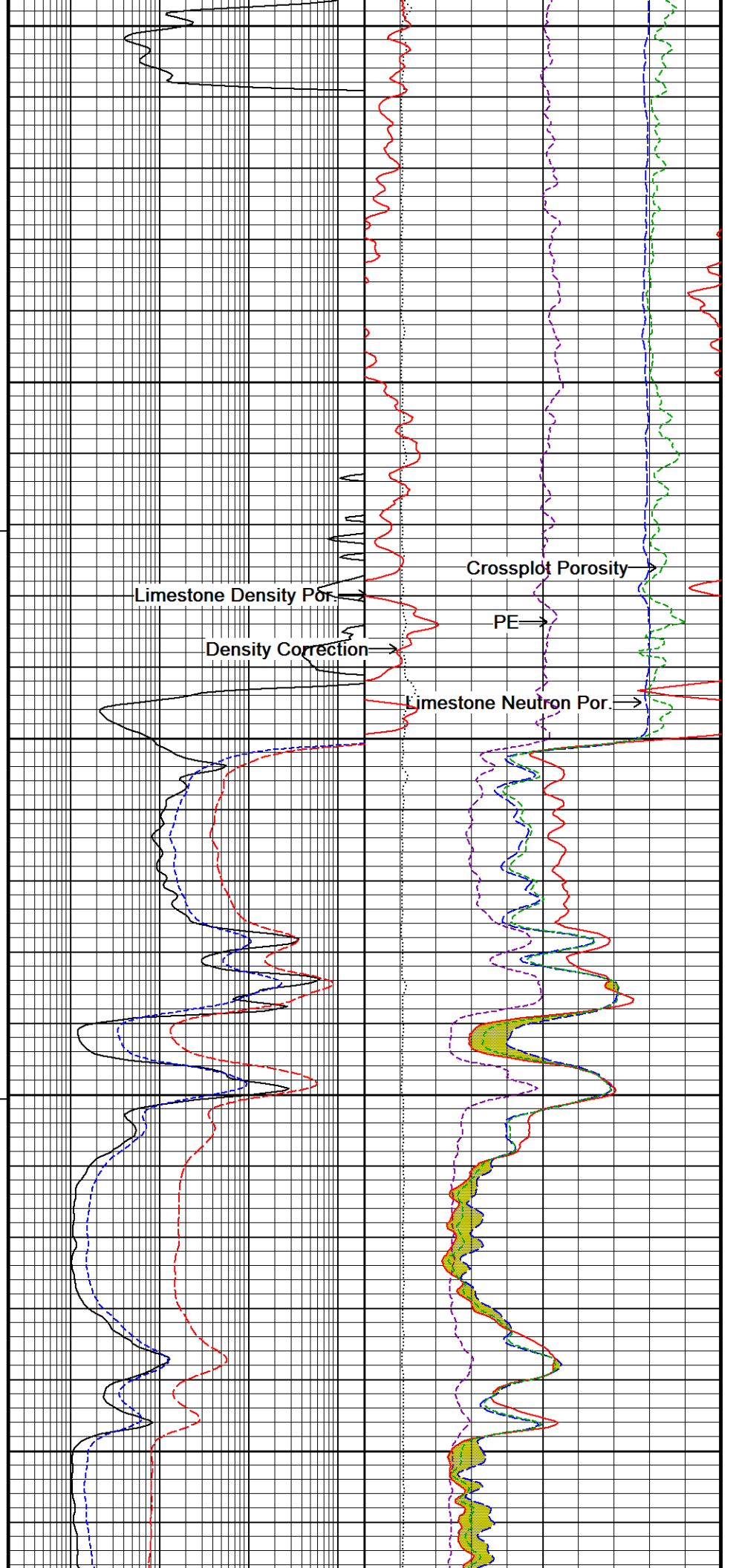
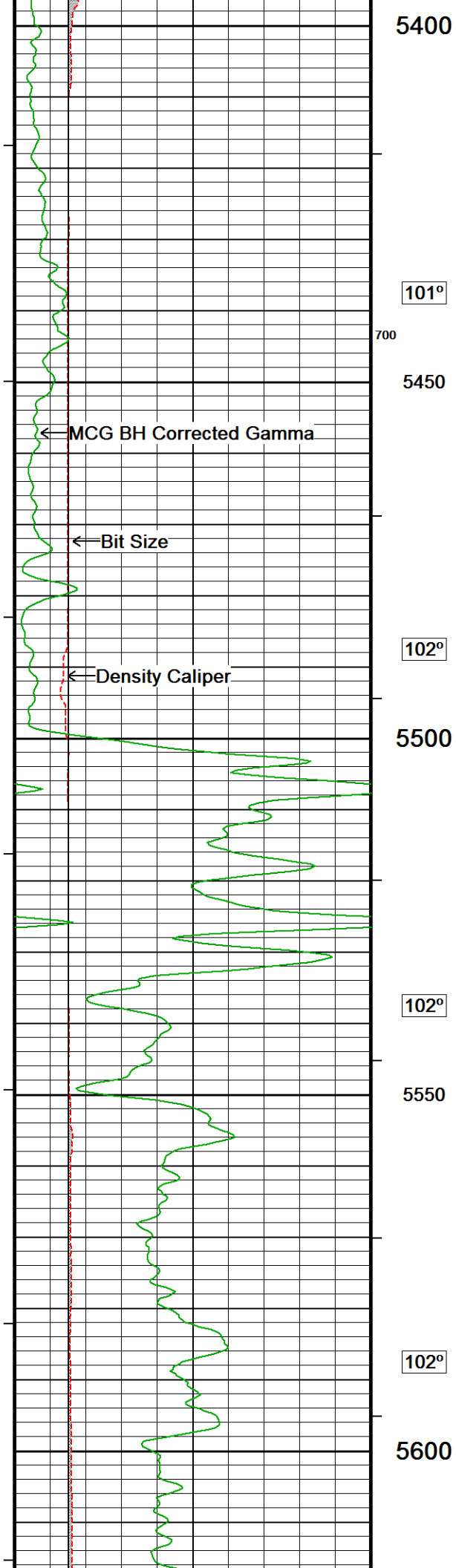


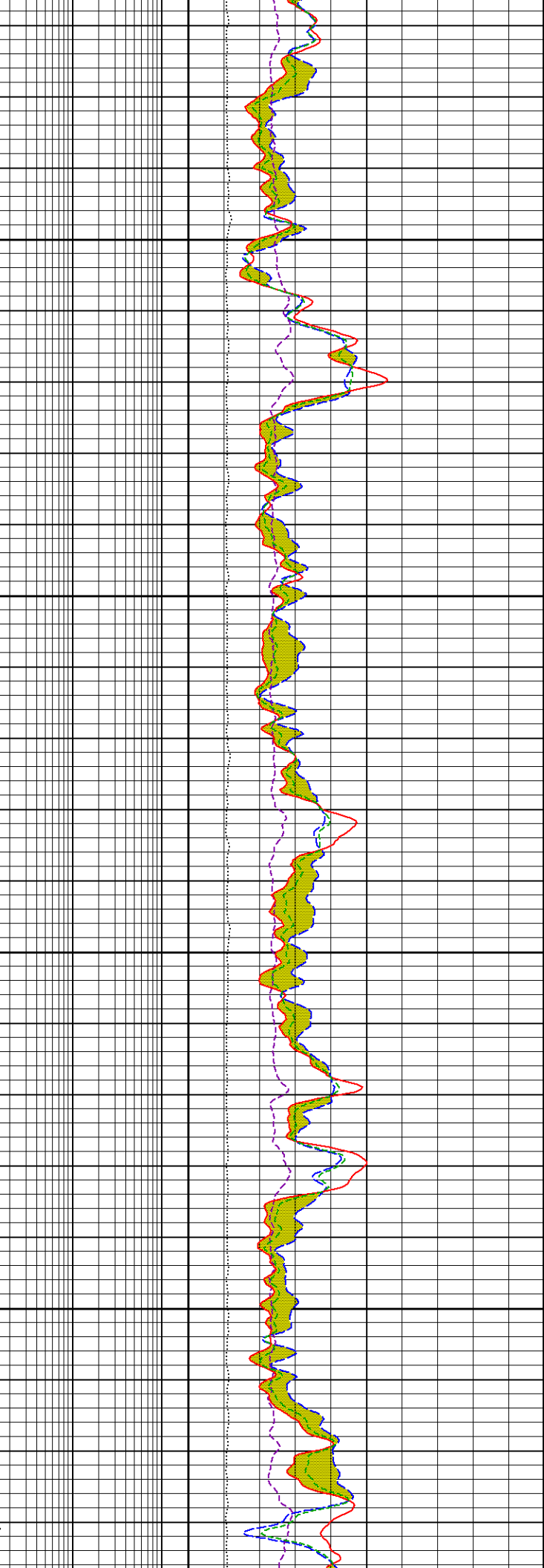
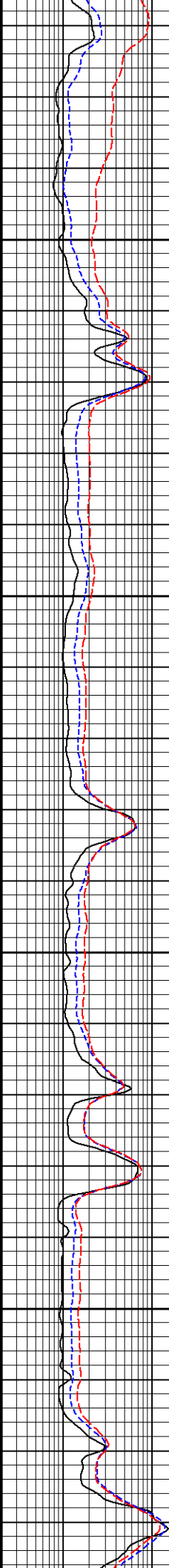
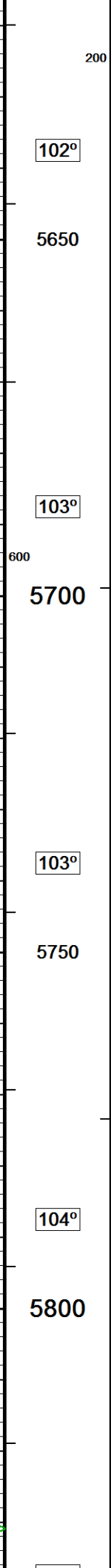
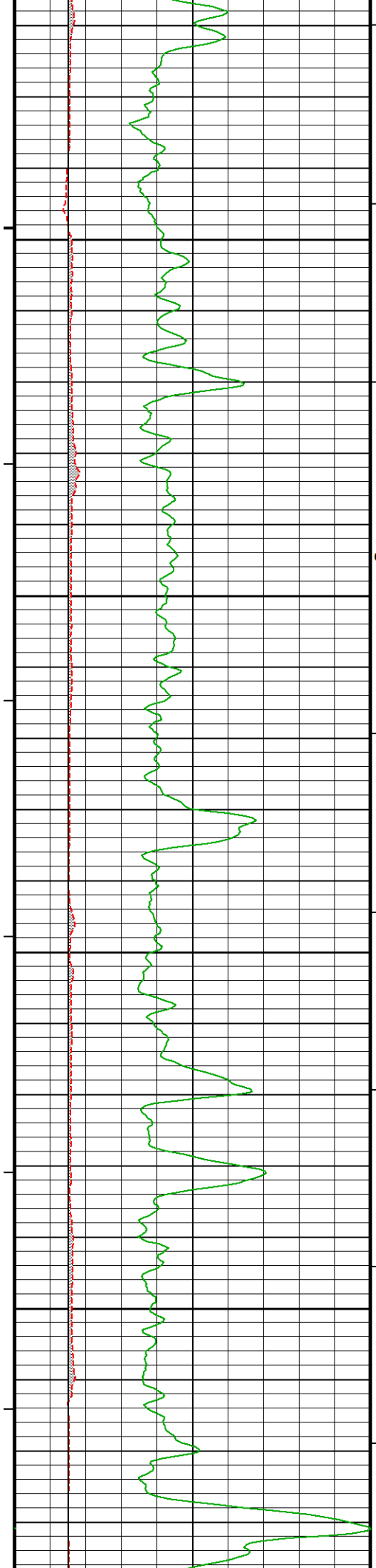


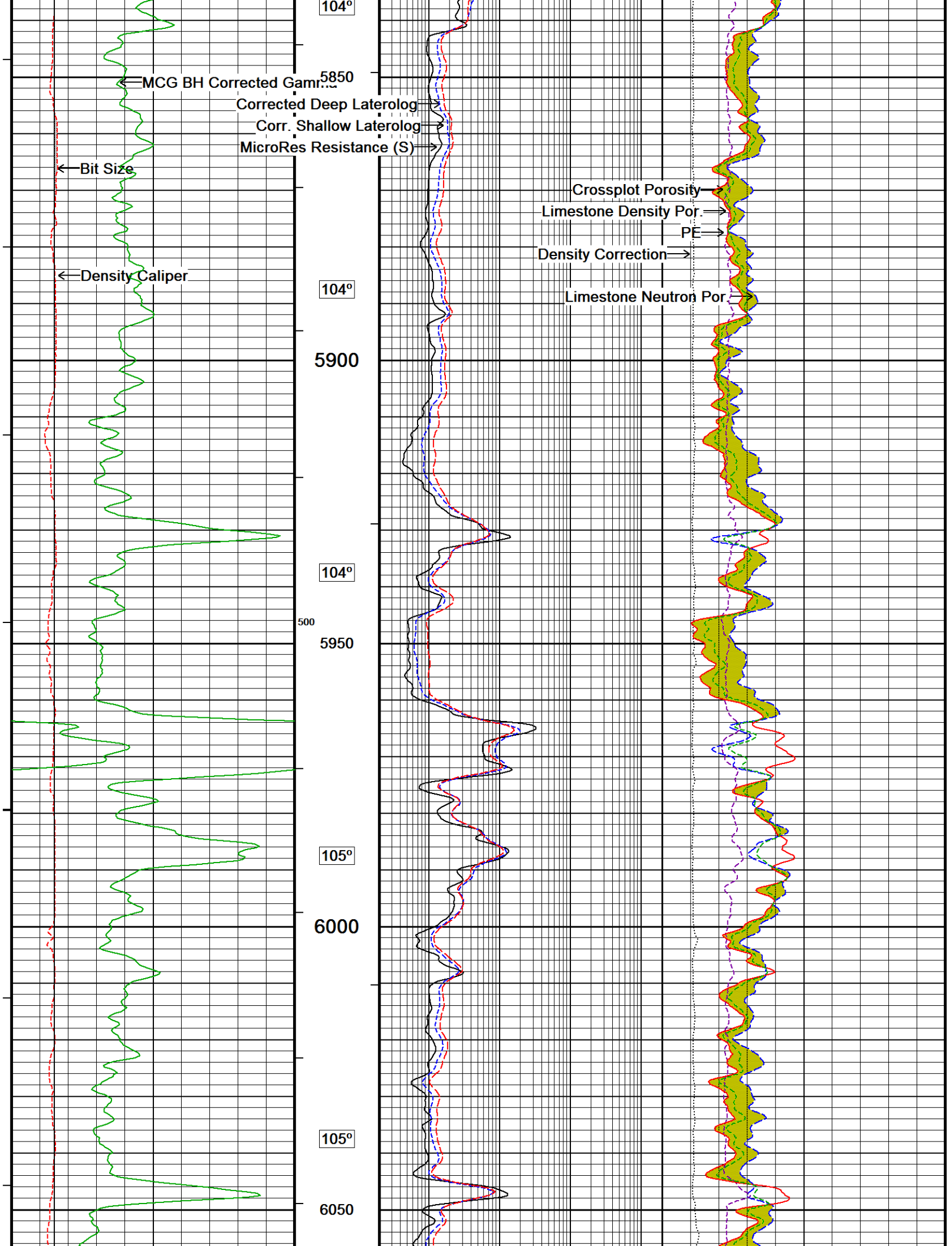


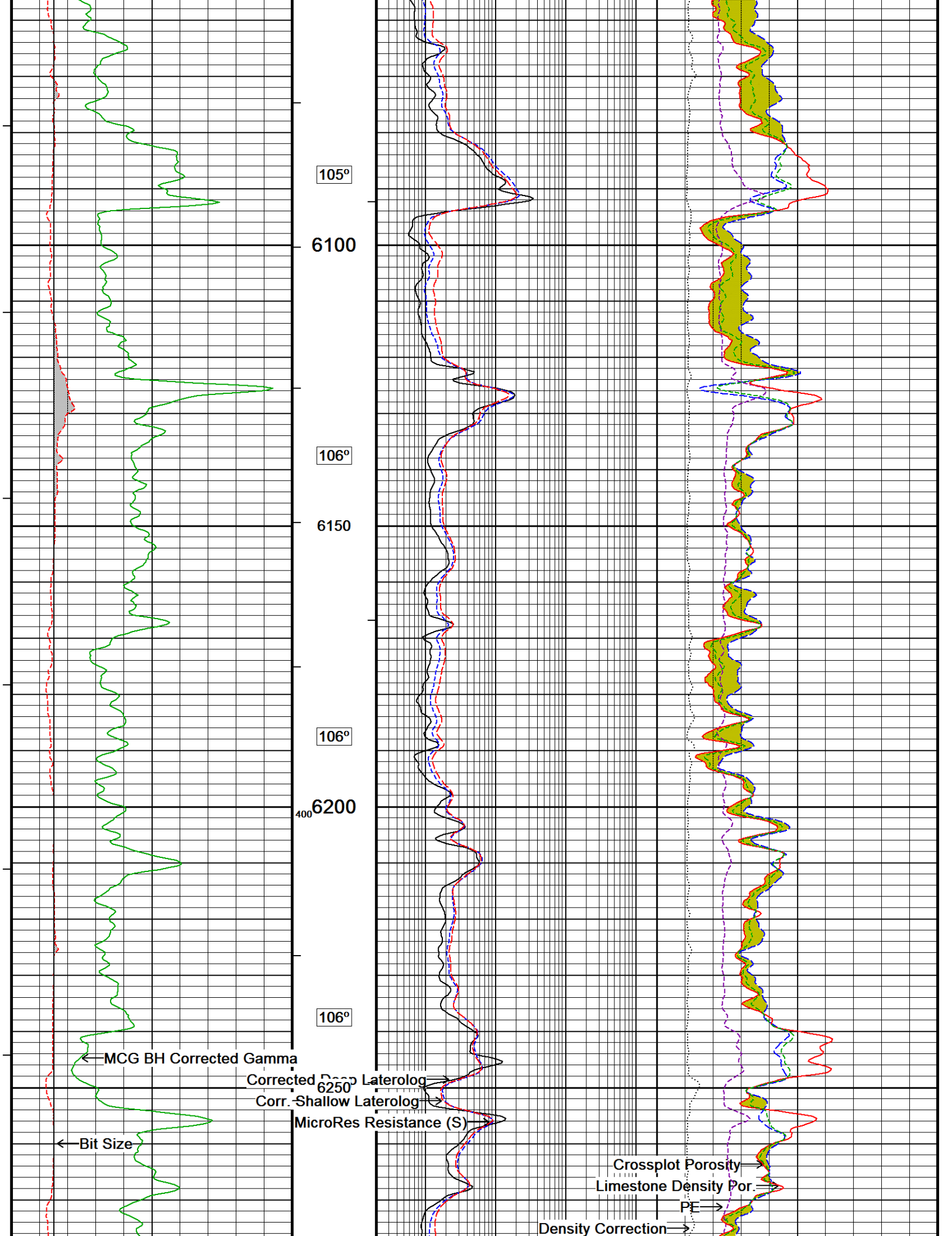


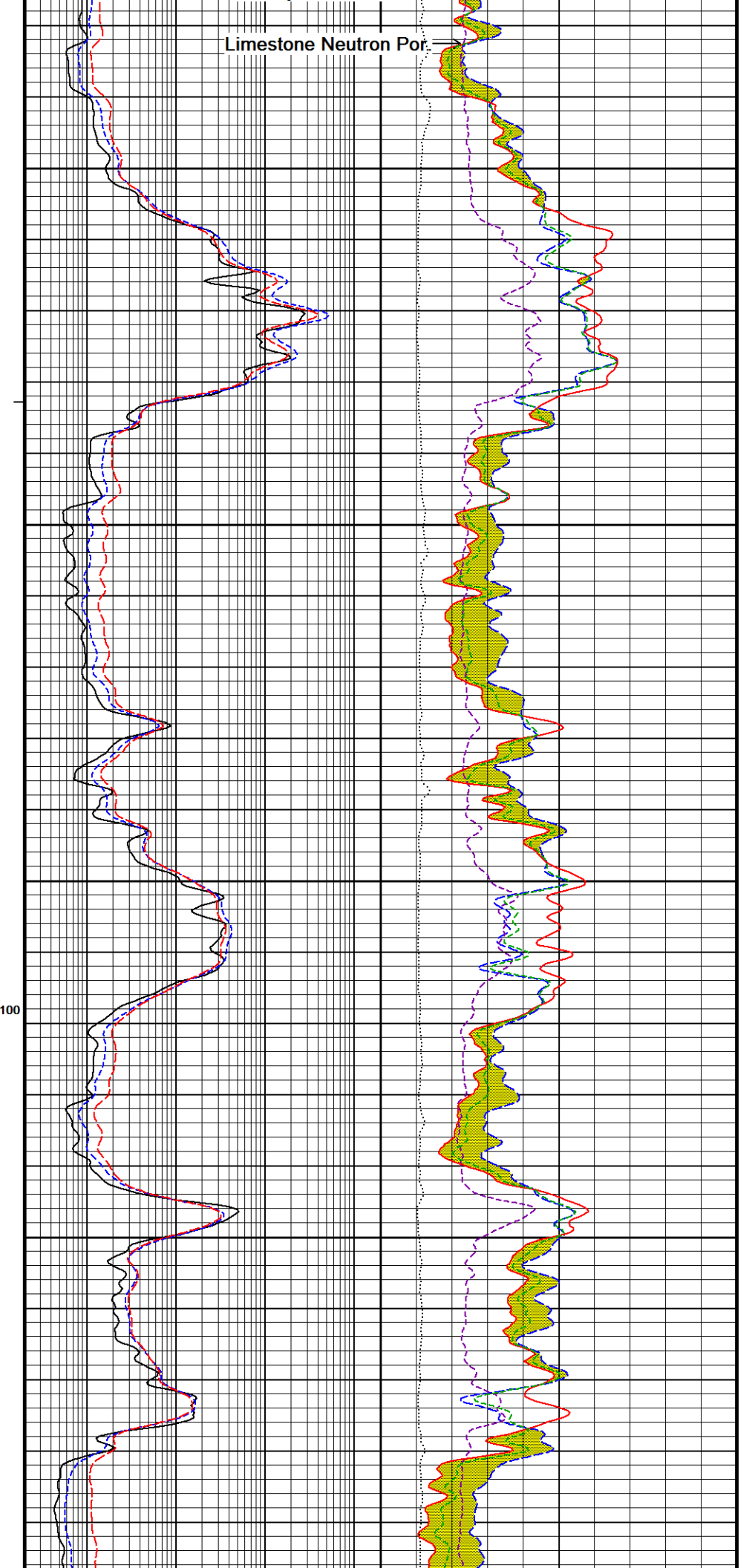
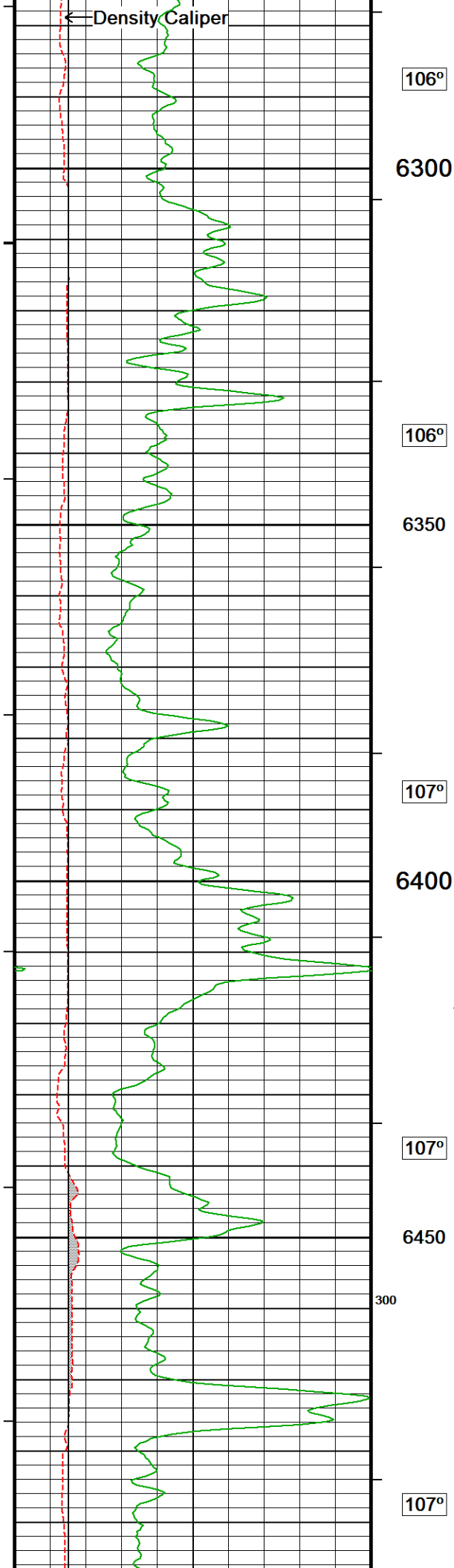


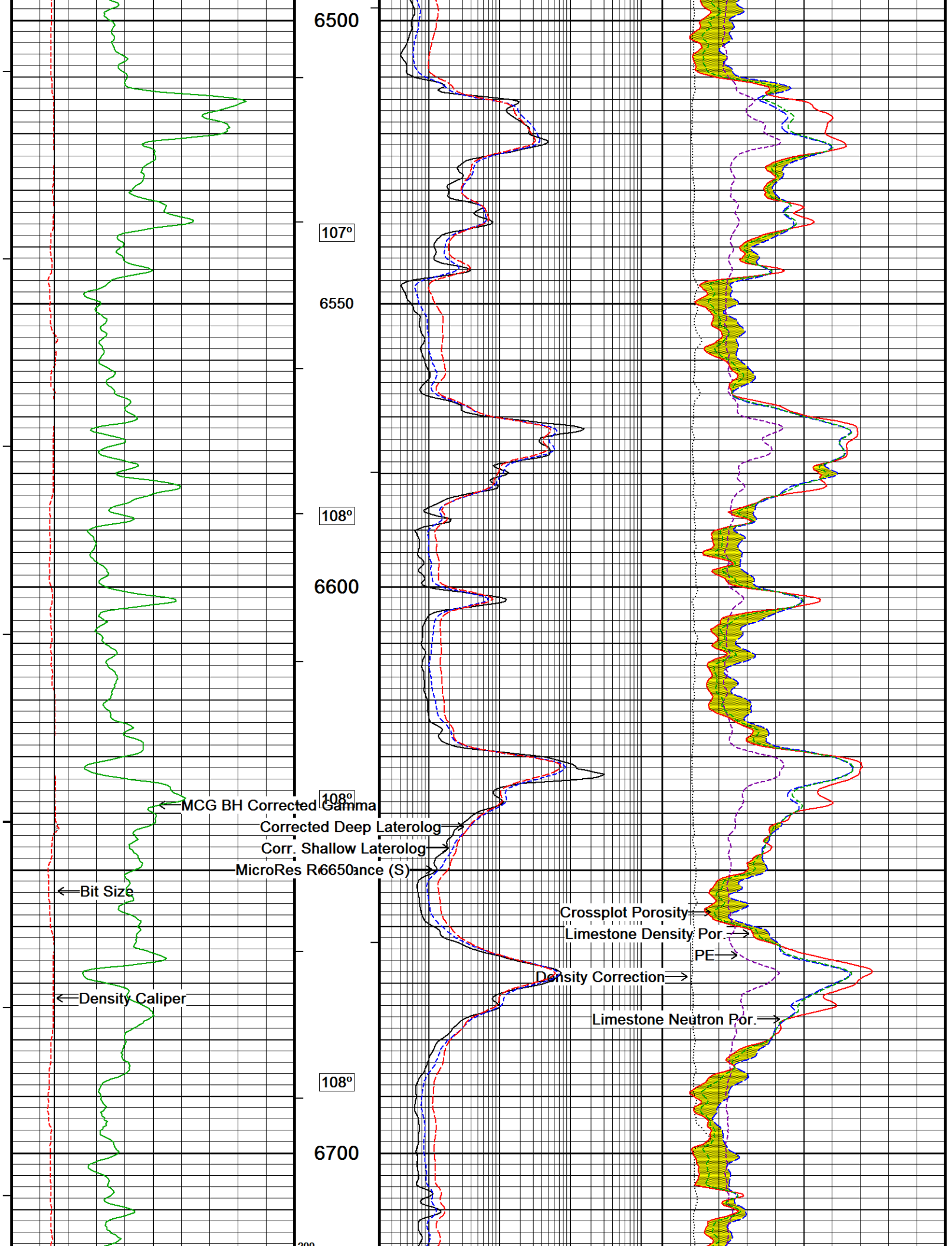


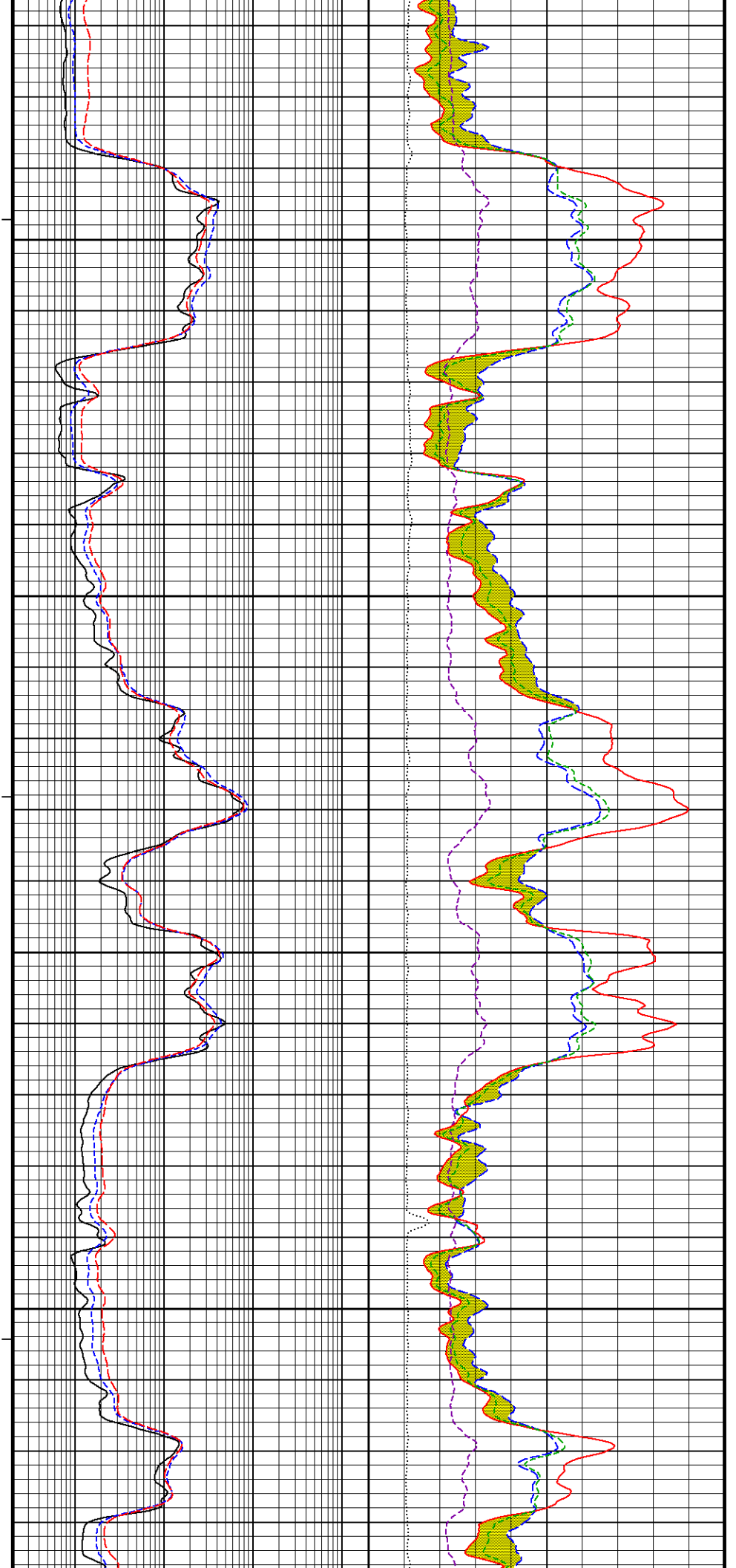
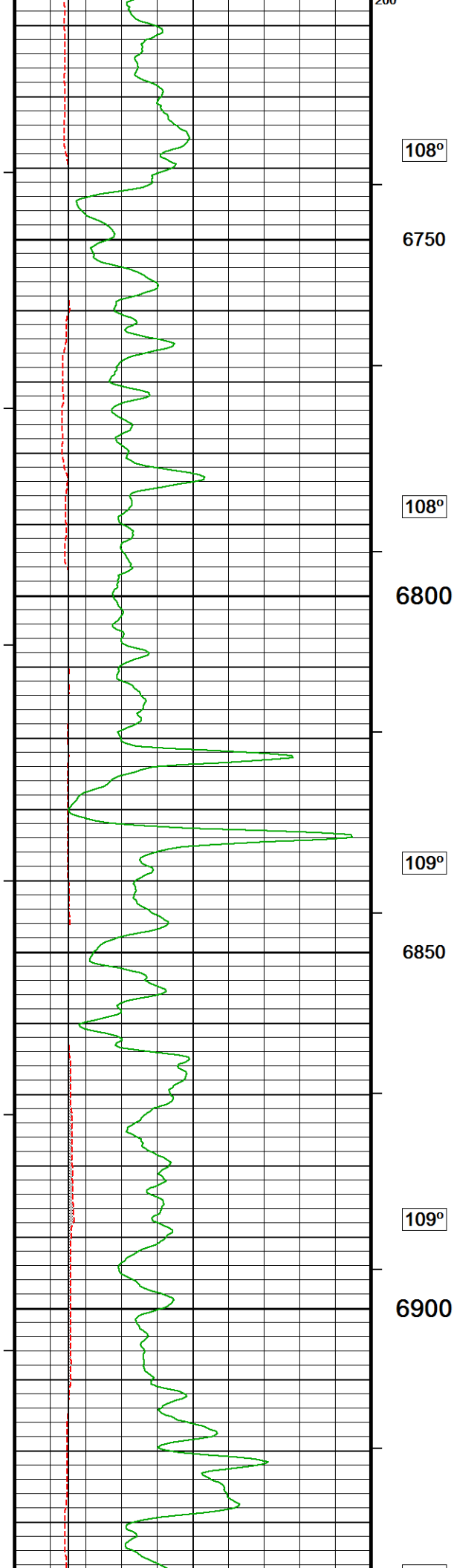


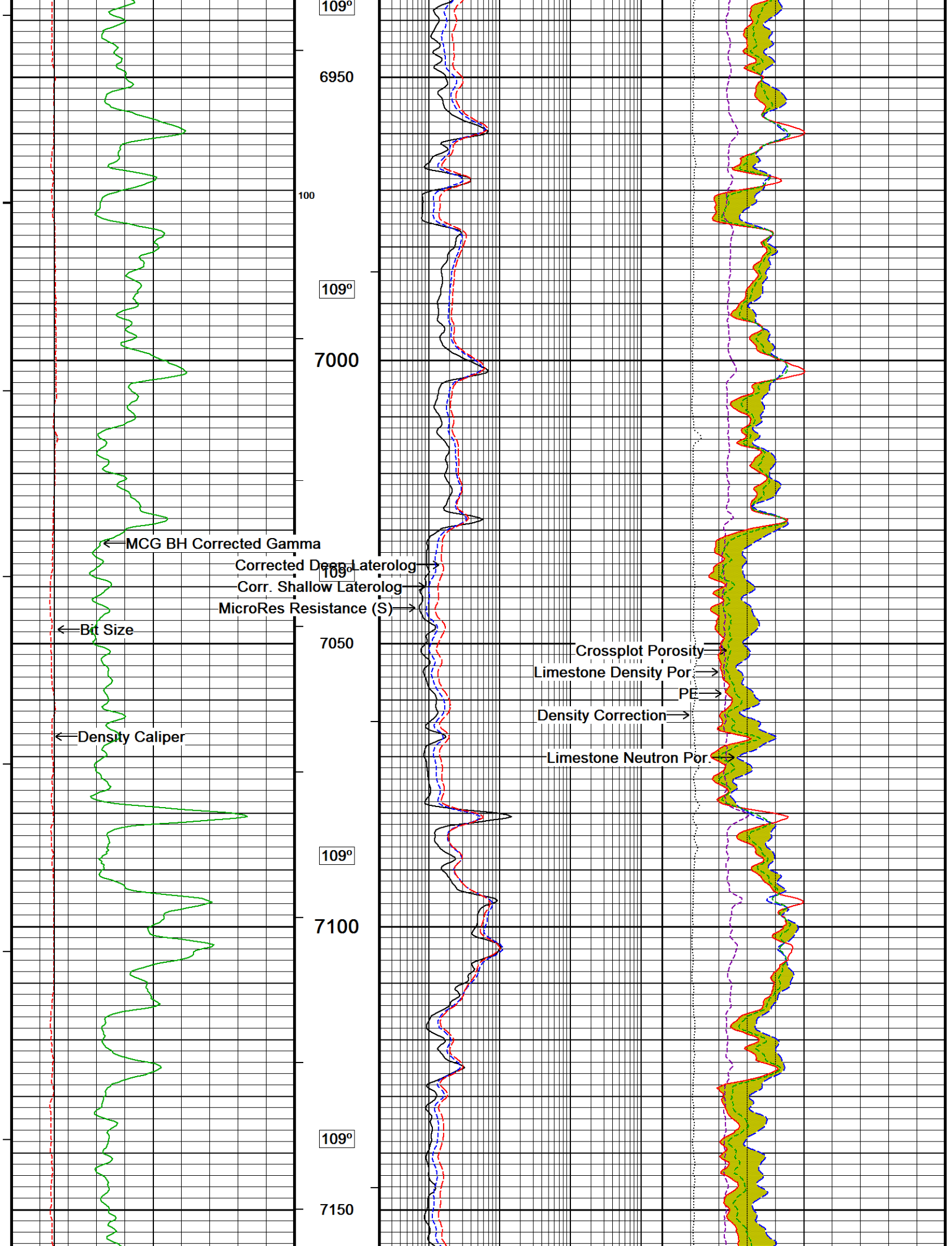


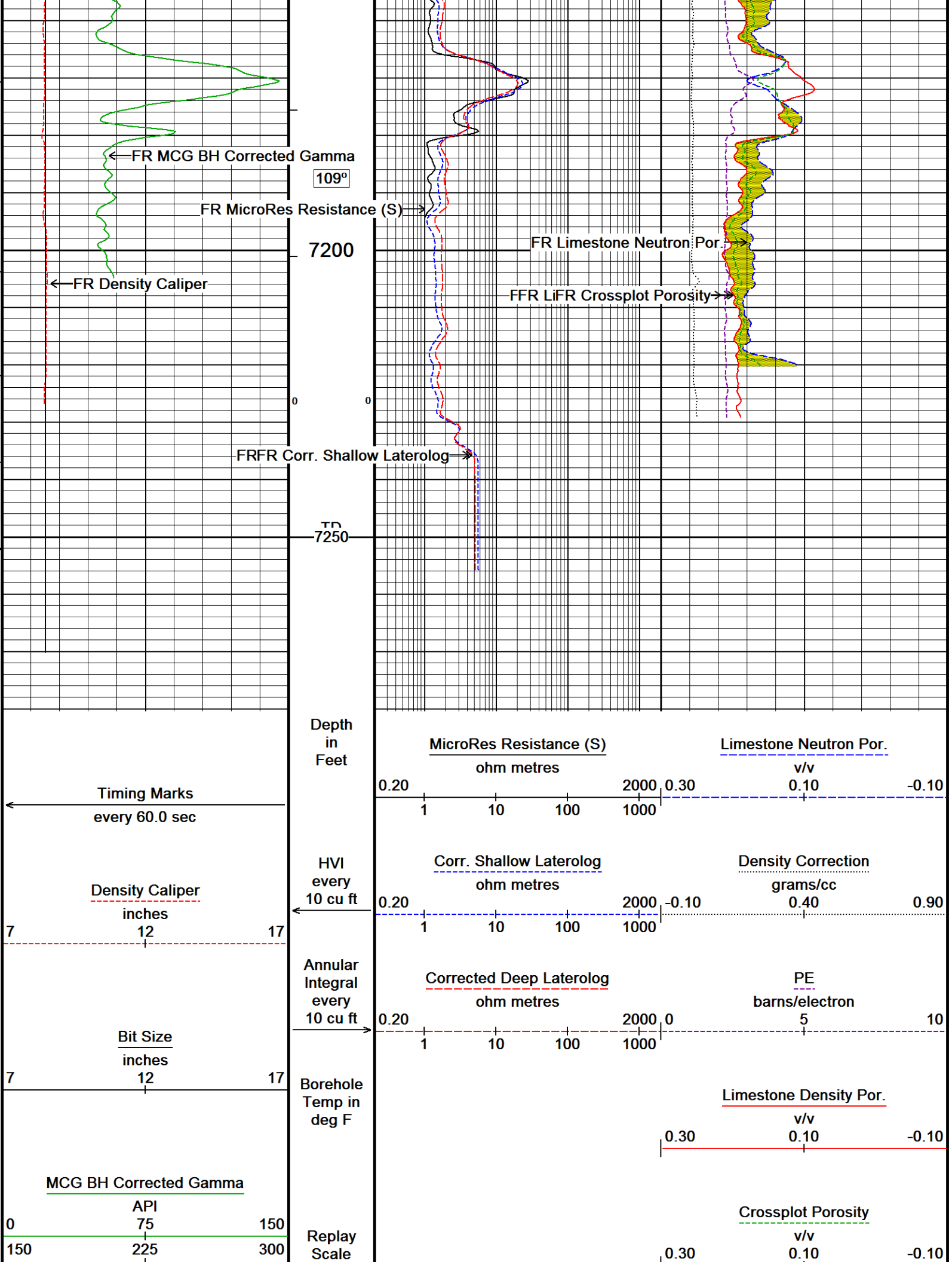


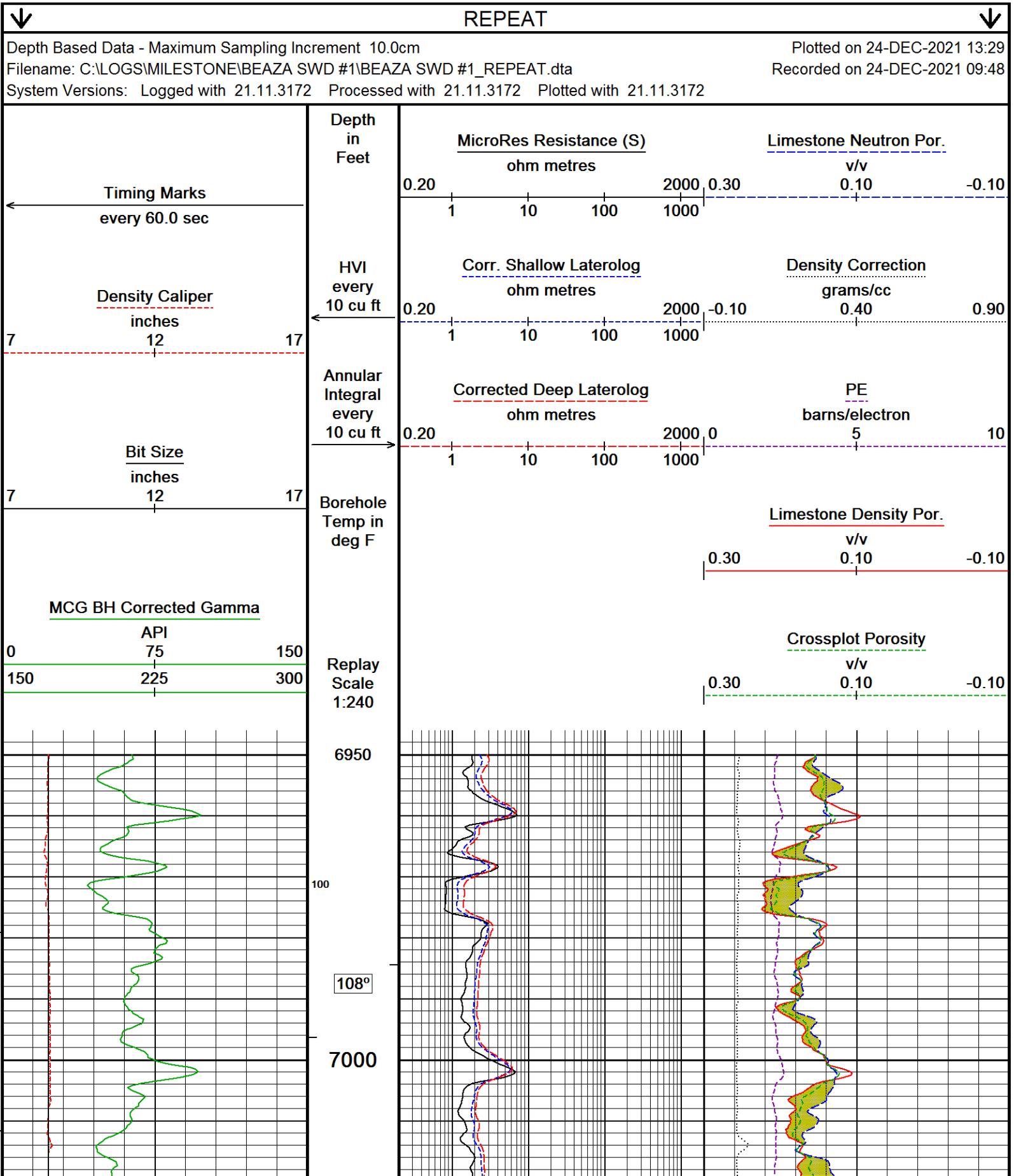


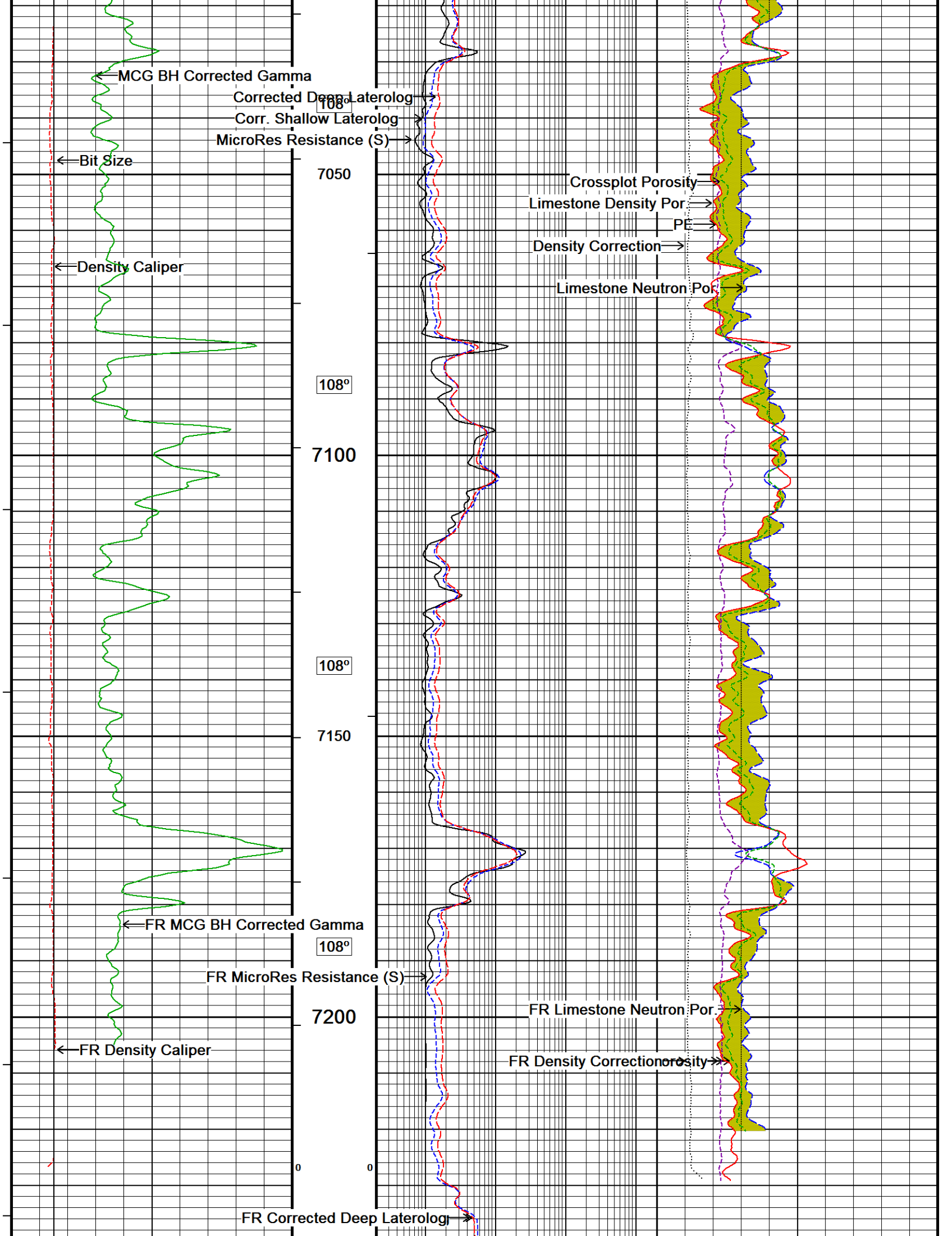


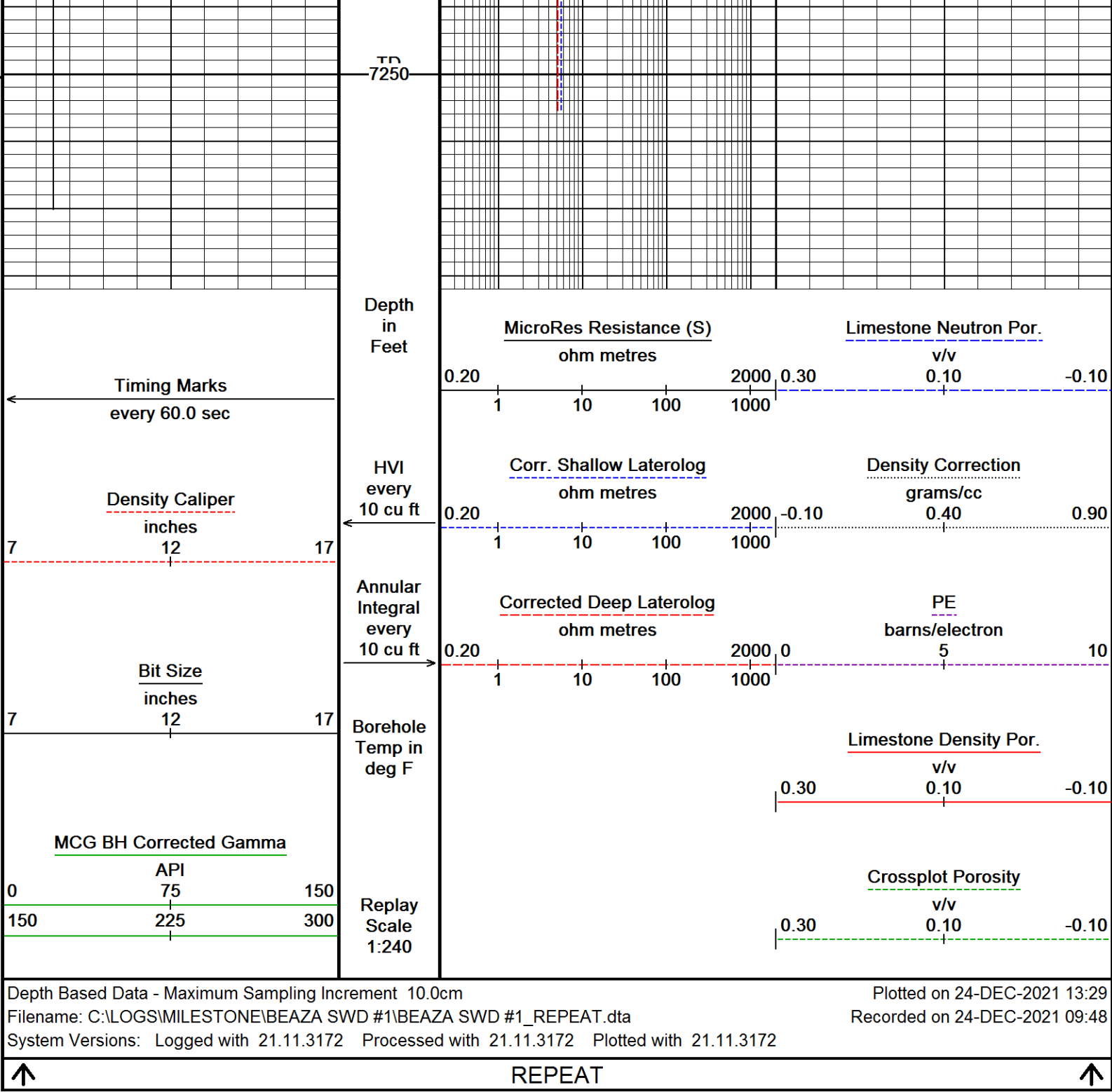












BEFORE SURVEY CALIBRATION		
C:\LOGS\MILESTONE\BEAZA SWD #1\BEAZA SWD #1_MAIN PASS_CASING.dta		
General Constants All 000		Last Edited on 24-DEC-2021,08:54
General Parameters		
Mud Resistivity	0.052	ohm-metres
Mud Resistivity Temperature	87.000	degrees F
Water Level	0.000	feet
Borehole Fluid Processing	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	7.000	inches
Caliper for Differential Caliper	Density Caliper	

Caliper for Differential Caliper		Density Caliper	
Rwa Parameters		Base Density Porosity	
Porosity used		Deep Laterolog	
Resistivity used		0.620	
RWA Constant A		2.150	
RWA Constant M		0.000	
SW/APOR Tool Source			
High Resolution Temperature Calibration MCG-E.A 573			
		Field Calibration on 07-MAR-2020,14:47	
		Measured	Calibrated(Deg F)
Lower		0.00	0.00
Upper		200.00	200.00
High Resolution Temperature Constants MCG-E.A 573			
		Last Edited on 07-MAR-2020,14:47	
Pre-filter Length		11	
Gamma Calibration MCG-E.A 573			
		Field Calibration on 09-SEP-2021,14:55	
		Measured	Calibrated (API)
Background		40	26
Calibrator (Gross)		845	559
Calibrator (Net)		805	533
Gamma Calibration Tolerances MCG-E.A 573			
Ratio	1.510	1.40 1.475 1.55	Counts/API
Gamma Constants MCG-E.A 573			
		Last Edited on 24-DEC-2021,08:37	
Gamma Calibrator Number		533	
GRC-M Calibrator Jig in Use?		NO	
Inactive Background Jig in Use?		NO	
Mud Density		1.21	gm/cc
Caliper Source for Processing		Density Caliper	
Tool Position		Eccentred	
Potassium Equivalence		Chloride	
K Mud Concentration		0.00	%
Micro Laterolog Calibration MMR-C.A 242			
		Base Calibration on 21-DEC-2021 10:57	
		Field Check on 21-DEC-2021 11:01	
		Resistor 1 (ohm)	Resistor 2 (ohm)
Base Calibration		0.0	10000.0
		Measured	Calibrated (ohm-m)
Ref 1		Ref 2	Ref 1
0.0		9634.0	0.0
			128.0
		Base Check (ohm-m)	Field Check (ohm-m)
		5.3	5.3
Micro Laterolog Calibration Tolerances MMR-C.A 242			
Ref 2	9634.0	-3% 9900.00 +3%	ohm
Base Check	5.3	-2% 5.3 +2%	ohm-m
Field Check	5.3	-2% 5.3 +2%	ohm-m
Micro Laterolog Constants MMR-C.A 242			
		Last Edited on 24-DEC-2021,08:53	
Pad Type		6 in Solid Nylon B23059	
Standoff Offset		0.0000	inches
Micro Laterolog K Factor		0.0128	
Micro Laterolog Rm K Factor		N/A	
Mudcake Thickness Correction Constants			
Mud Cake Source		Differential Caliper	
Mud Cake Thickness		N/A	inches
Mud Cake Thickness Caliper		MMR Caliper	
Mud Cake Resistivity		0.0650	ohm-m

Mud Cake Resistivity	0.0650	ohm-m
Mud Cake Resistivity Temp.	87.00	Deg F
Mud Cake Resistivity Source	Temperature Corr	
Temp. for Rmc Corr.	MCG External Temperature	

Neutron Calibration MDN-C.A 480

Base Calibration on 19-OCT-2021 15:59

Field Check on 19-OCT-2021 16:10

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2908	89	3714	110
Ratio	32.726		33.764	

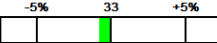
Field Calibrator at Base

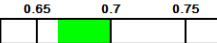
	Calibrated (cps)
	2139 3221
Ratio	0.664

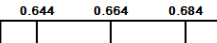
Field Check

	Calibrated (cps)
	2126 3199
Ratio	0.665

Neutron Calibration Tolerances MDN-C.A 480

Ratio	32.726	
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Base Check	0.664	
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Field Check	0.665	
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Neutron Constants MDN-C.A 480

Last Edited on 24-DEC-2021,08:34

Neutron Source Id	H14034B	
Neutron Jig Number	NJ5304	
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	4.26	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	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Laterolog Calibration MLE-D.A 280

Base Calibration on 17-DEC-2021 21:08

Field Check on 17-DEC-2021 21:11

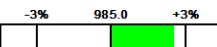
	Resistor 1 (ohm)	Resistor 2 (ohm)
	0.0	1000.0

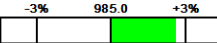
Base Calibration

	Measured		Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Shallow	0.0	1010.3	0.0	1284.4
Deep	0.0	1010.8	0.0	795.7
Groningen	0.0	1009.7	0.0	808.4

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	45.7	45.7
Deep	28.3	28.3
Groningen	230.4	230.4

Laterolog Calibration Tolerances MLE-D.A 280

Shallow Resistor 2	1010.3		ohm
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Deep Resistor 2	1010.8		ohm
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Groningen Resistor 2	1009.7		ohm
Shallow Base Check	45.7		ohm-m
Deep Base Check	28.3		ohm-m
Groningen Base Check	230.4		ohm-m
Shallow Field Check	45.7		ohm-m
Deep Field Check	28.3		ohm-m
Groningen Field Check	230.4		ohm-m

Laterolog Constants MLE-D.A 280

Last Edited on 24-DEC-2021,08:36

Profiling Laterolog Type	Type 0	
Laterolog Output Filter	Logarithmic	
Profiling Limiter	On	
Median Filter	On	
Squasher Start	40000	ohm-m
Shallow Laterolog K Factor	1.2844	
Deep Laterolog K Factor	0.7957	
Groningen Laterolog K Factor	0.8084	
Interference Rejection	50 Hz	
SP Connection	SP Bridle Electrode (Lower)	
Groningen Connection	Groningen Electrode (Upper)	
Profiling Deep Input	N/A	

Borehole Correction Constants

Bridle Type	Standard	
Sonde Position	1.00	inches
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	

Apparent Porosity and Water Saturation Constants

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

Caliper Calibration MPD-D.A 474

Base Calibration on 18-OCT-2021 11:30

Field Calibration on 17-DEC-2021 14:14

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	15936	4.01
2	24561	5.96
3	33247	7.98
4	41693	9.94
5	50585	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.87	8.84

Caliper Calibration Tolerances MPD-D.A 474

Short Arm Field Cal.	8.87		in
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Photo Density Calibration MPD-D.A 474

Base Calibration on 18-OCT-2021 11:15

Field Check on 10-NOV-2021 10:27

Density Calibration				
Base Calibration		Measured		Calibrated (sdu)
	Near	Far	Near	Far
Background	1104	1296		

Reference 1	49754	23990	59556	30836
Reference 2	20270	2392	24941	2541

Field Check at Base

1104.2	1295.7
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Field Check

1101.3	1304.4
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PE Calibration

Base Calibration

Measured

Calibrated

	WS	WH	Ratio	Ratio
Background	209	982		
Reference 1	21246	49571	0.433	0.371
Reference 2	6132	20140	0.309	0.272

Field Check at Base

209.2	981.8
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Field Check

210.6	979.9
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Photo Density Calibration Tolerances MPD-D.A 474

Near Density Ratio 2.54

-5%	2.52	+5%
0.089	0.110	0.131

PE Calibration 0.115

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Far Density Ratio 20.70

-5%	21.00	+5%

Near Den. Field Check 1101.3

-3%	1104.2	+3%

PE WS Field Check 210.6

-6%	209.2	+6%

Far Den. Field Check 1304.4

-3%	1295.7	+3%

PE WH Field Check 979.9

-6%	981.8	+6%

Density Constants MPD-D.A 474

Last Edited on 24-DEC-2021,08:37

Density Source Id	H79950B	
Nylon Calibrator Number	DNCE695	
Aluminium Calibrator Number	DACD698	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.21	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	
Matrix Density (gm/cc)	Depth (ft)	
2.71	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	

DOWNHOLE EQUIPMENT

C:\LOGS\MILESTONE\BEAZA SWD #1\BEAZA SWD #1_MAIN PASS_CASING.dta

Cablehead, 11 pin
CBH-CA 198 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

11C-11B Compact Tool Adaptor
MTA-K.A 335 LG: 1.53 ft WT: 13.2 lb OD: 2.240 in



Compact Swivel Head Adaptor
SHA-J.B 504 LG: 2.30 ft WT: 22.0 lb OD: 2.240 in

Compact Stiff Bridle Electrode Sub.
MBE-C.B 323 LG: 12.33 ft WT: 77.2 lb OD: 2.280 in

Compact Stiff Bridle Electrode Sub.
MBE-C.B 353 LG: 12.33 ft WT: 77.2 lb OD: 2.283 in

Compact Comms Gamma
MCG-E.A 573 LG: 8.70 ft WT: 63.9 lb OD: 2.240 in

Compact Micro-Resistivity
MMR-C.A 242 LG: 8.59 ft WT: 81.6 lb OD: 3.819 in

Compact Neutron
MDN-C.A 480 LG: 5.04 ft WT: 50.7 lb OD: 2.240 in

Compact Density/Caliper
MPD-D.A 474 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Vee Arm Caliper
MVC-A.A 146 LG: 8.06 ft WT: 61.7 lb OD: 2.240 in

Compact Knuckle Joint
SKJ-E.B 658 LG: 2.17 ft WT: 24.3 lb OD: 2.240 in

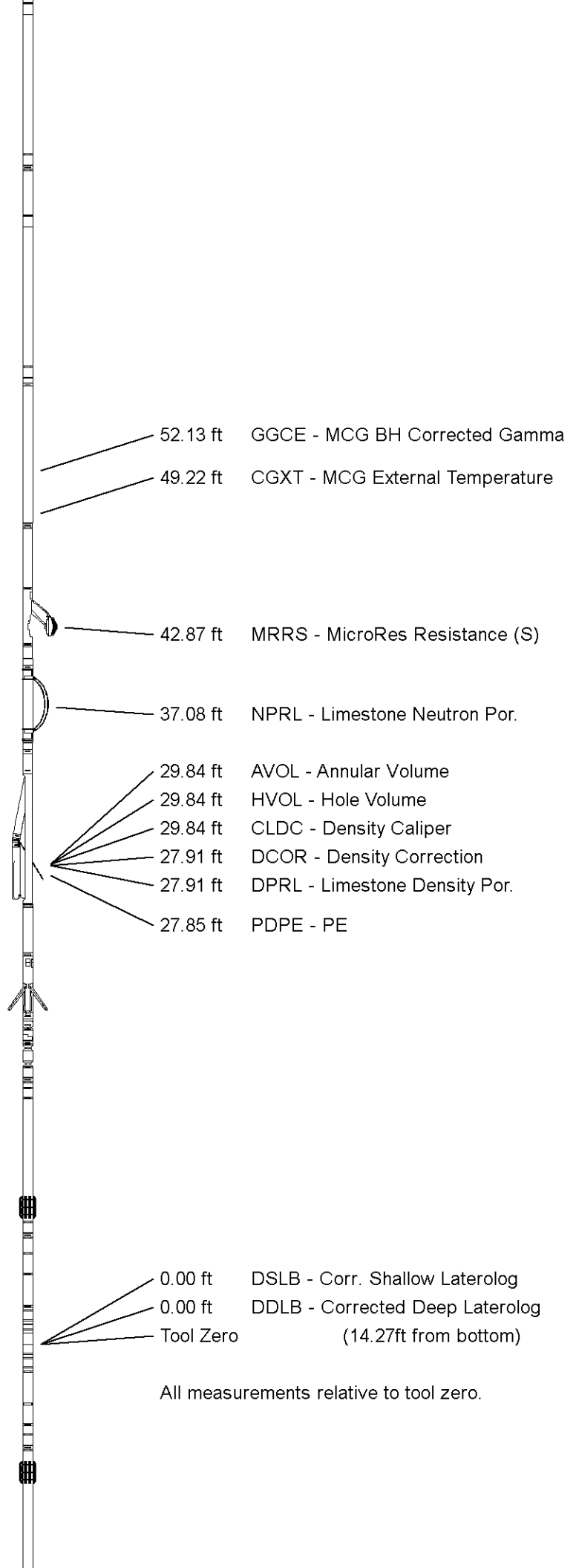
Compact Upper Guard sub
MUG-B.B 286 LG: 8.98 ft WT: 68.3 lb OD: 2.240 in

Compact Laterolog Electrode Sub.
MLE-D.A 280 LG: 12.34 ft WT: 92.6 lb OD: 2.244 in

Compact Lower Guard Sub.
MLG-B.B 281 LG: 8.00 ft WT: 55.1 lb OD: 2.240 in

Compact Hole Finder
HFS 1 LG: 0.08 ft WT: 2.2 lb OD: 2.240 in

Total Length: 102.44 ft Weight: 804.7 lb



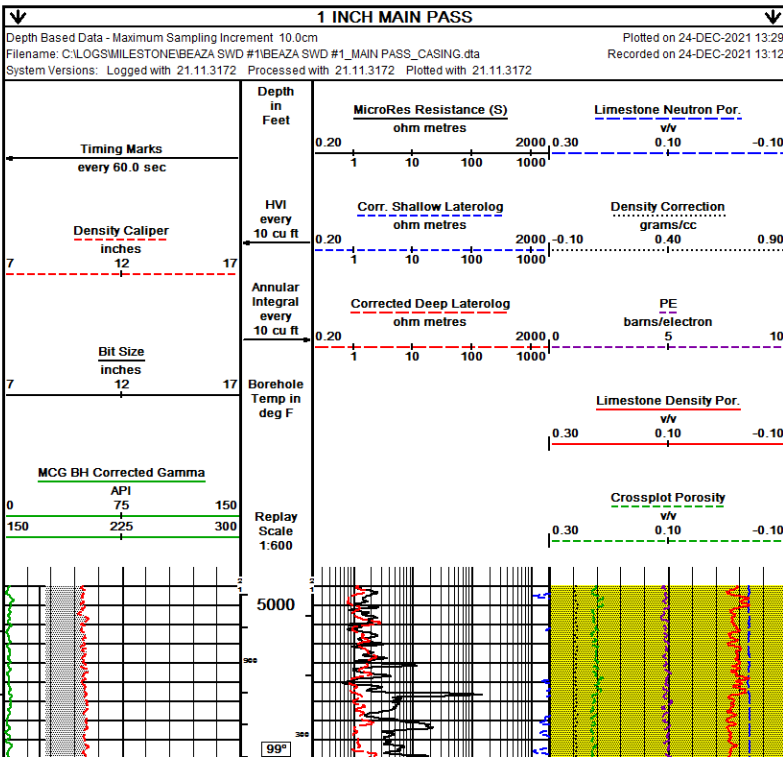
COMPANY MILESTONE ENVIROMENTAL SERVICES LLC
WELL BAEZA SWD #1
FIELD SWD; BELL CANYON-CHERRY CANYON
PROVINCE/COUNTY LEA
COUNTRY/STATE U.S.A. / NEW MEXICO

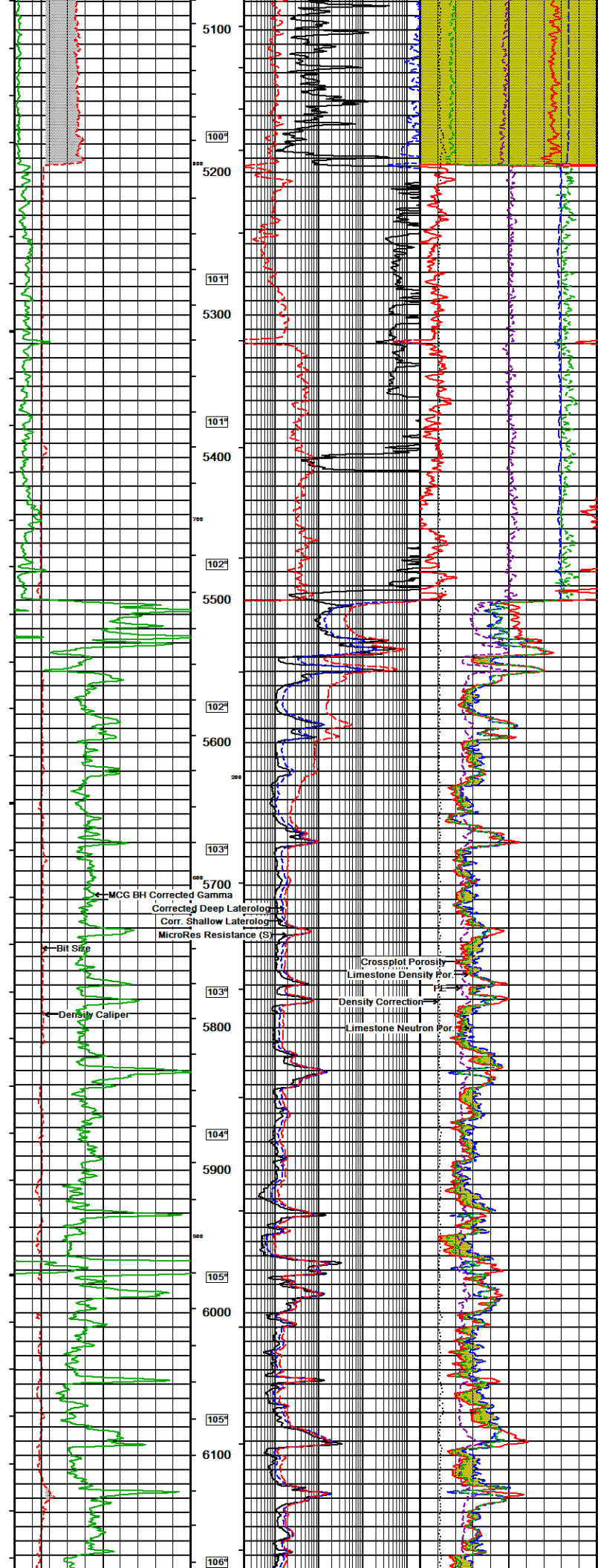
Elevation Kelly Bushing	3374.00	feet	Last Reading	1454.00	feet
Elevation Drill Floor	3373.00	feet	First Reading	7236.00	feet
Elevation Ground Level	3357.00	feet	Depth Driller	7242.00	feet
			Depth Logger	7250.00	feet

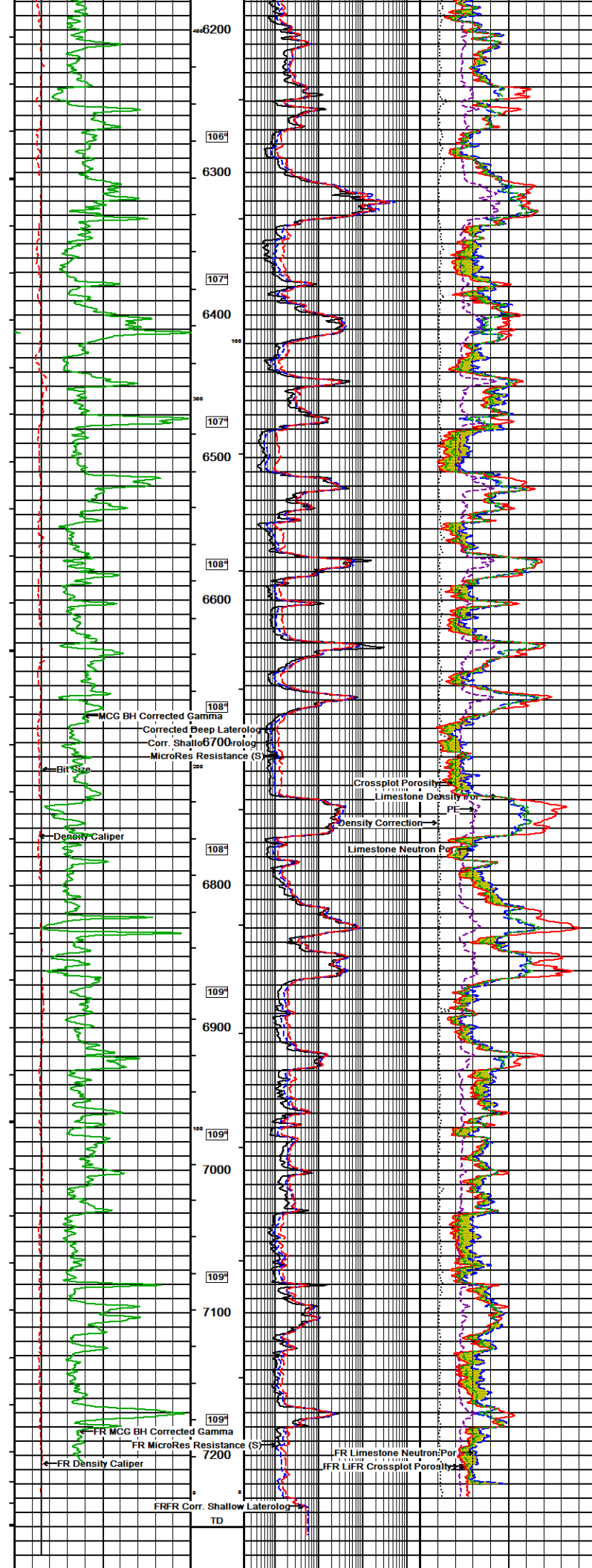
WIRELINE LOGGING SOLUTIONS

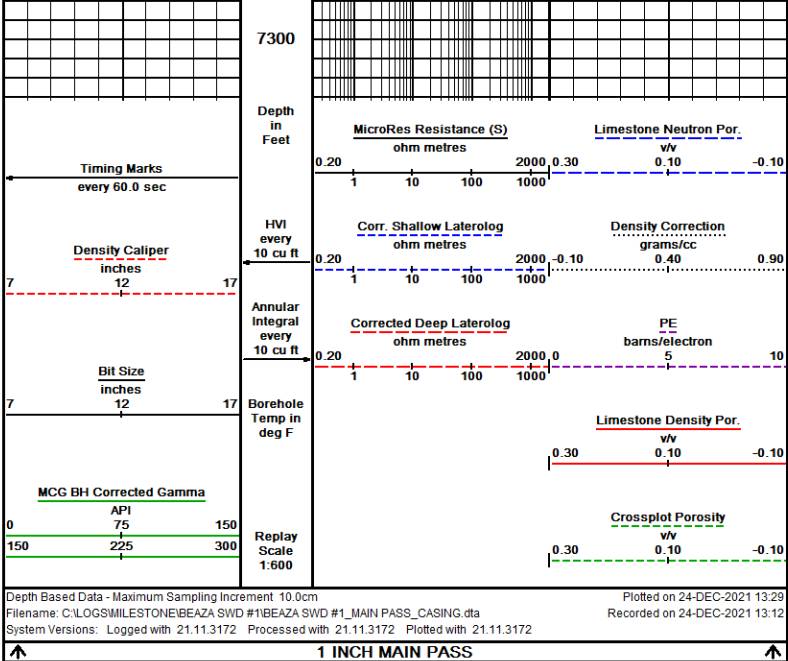
DUAL LATEROLOG MICRO LATEROLOG GAMMA RAY

WIRELINE LOGGING SOLUTIONS		DUAL LATEROLOG MICRO LATEROLOG GAMMA RAY	
COMPANY	MILESTONE ENVIRONMENTAL SERVICES LLC		
WELL	BAEZA SWD #1		
FIELD	SWD, BELL CANYON-CHERRY CANYON		
PROVINCE/COUNTY	LEA		
COUNTRY/STATE	U.S.A. / NEW MEXICO		
LOCATION	SEC. 25 T-25S RGE. 34E 2480' ENL & 160' FEL		
Log Number	35-025-45600	Other Services	COMPENSATED NEUTRON
Job Number	32.188297	PHOTO-DENSITY	
Log Date	24-DEC-2021		
Permanent Datum GL Elevation	3357.00		
Log Measured From KB	17.00	feet above Permanent Datum	
Drilling Measured From KB			
Date	24-DEC-2021		
Run Number	ONE		
Service Order	17-211724W/F		
Depth Driller	7242.00	feet	
Depth Logger	7250.00	feet	
First Reading	7236.00	feet	
Last Reading	1454.00	feet	
Casing Driller	1454.00	feet	
Casing Logger	1454.00	feet	
Bit Size	8.500	inches	
Hole Fluid Type	BRENE		
Density / Viscosity	10.10	lb/lb	28.00
PH / Fluid Loss	10.80	100.00	m/30min
Sample Source	FLOWLINE		
Rim @ Measured Temp	0.052 @ 87.0	ohm-in	
Rim @ Measured Temp	0.039 @ 87.0	ohm-in	
Rim @ Measured Temp	0.065 @ 87.0	ohm-in	
Source Rmt / Rmc	CALC		
Rim @ BHT	0.043 @ 108.0	ohm-in	
Time Since Circulation	6.5 HOURS		
Max Recorded Temp	108.00	deg F	
Equipment Base	11007		
Recorded By	MICHAEL RATHS		
Witnessed By	BILL HEARD		
Log	STONEHAM #5		









COMPANY		MILESTONE ENVIROMENTAL SERVICES LLC			
WELL		BAEZA SWD #1			
FIELD		SWD; BELL CANYON-CHERRY CANYON			
PROVINCE/COUNTY		LEA			
COUNTRY/STATE		U.S.A. / NEW MEXICO			
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WIRELINE LOGGING SOLUTIONS					
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