



Weatherford®

CALIPER LOG

COMPANY			McCoy PETROLEUM CORPORATION		
WELL			MACK 'A' #1-1		
FIELD			WILDCAT		
PROVINCE/COUNTY			GRAY		
COUNTRY/STATE			U.S.A / KANSAS		
LOCATION			1980' FSL & 1980' FWL		
SEC 1	TWP 29S	RGE 29W	Other Services		
Latitude		Permanent Datum GL, Elevation 2754 feet Log Measured From KB, 13.00 feet above Permanent Datum Drilling Measured From KB			
Longitude					
API Number					
15-069-20505					
Date	27-MAR-2018		Elevations: feet		
Run Number	ONE		KB	2767.00	
Service Order	4558-209306005		DF	2765.00	
Depth Driller	6400.00		GL	2754.00	
Depth Logger	6398.00				
First Reading	6377.00				
Last Reading	1751.00				
Casing Driller	1752.00				
Casing Logger	1751.00				
Bit Size	7.875				
Hole Fluid Type	CHEMICAL				
Density / Viscosity	9.35 lb/USg				
PH / Fluid Loss	10.00				
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.98 @ 75.0				
Rmf @ Measured Temp	0.78 @ 75.0				
Rmc @ Measured Temp	1.18 @ 75.0				
Source Rmf / Rmc	CALC				
Rm @ BHT	0.60 @122.0				
Time Since Circulation	5 HOURS				
Max Recorded Temp	122.00				
Equipment / Base	13244				
Recorded By	ADAM SILL				
Witnessed By	DAVID WILLIAMS				

BOREHOLE RECORD					Last Edited: 27-MAR-2018 04:53
Bit Size inches		Depth From feet		Depth To feet	
7.875		1752.00		6400.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	8.625	0.00	1752.00	24.00	

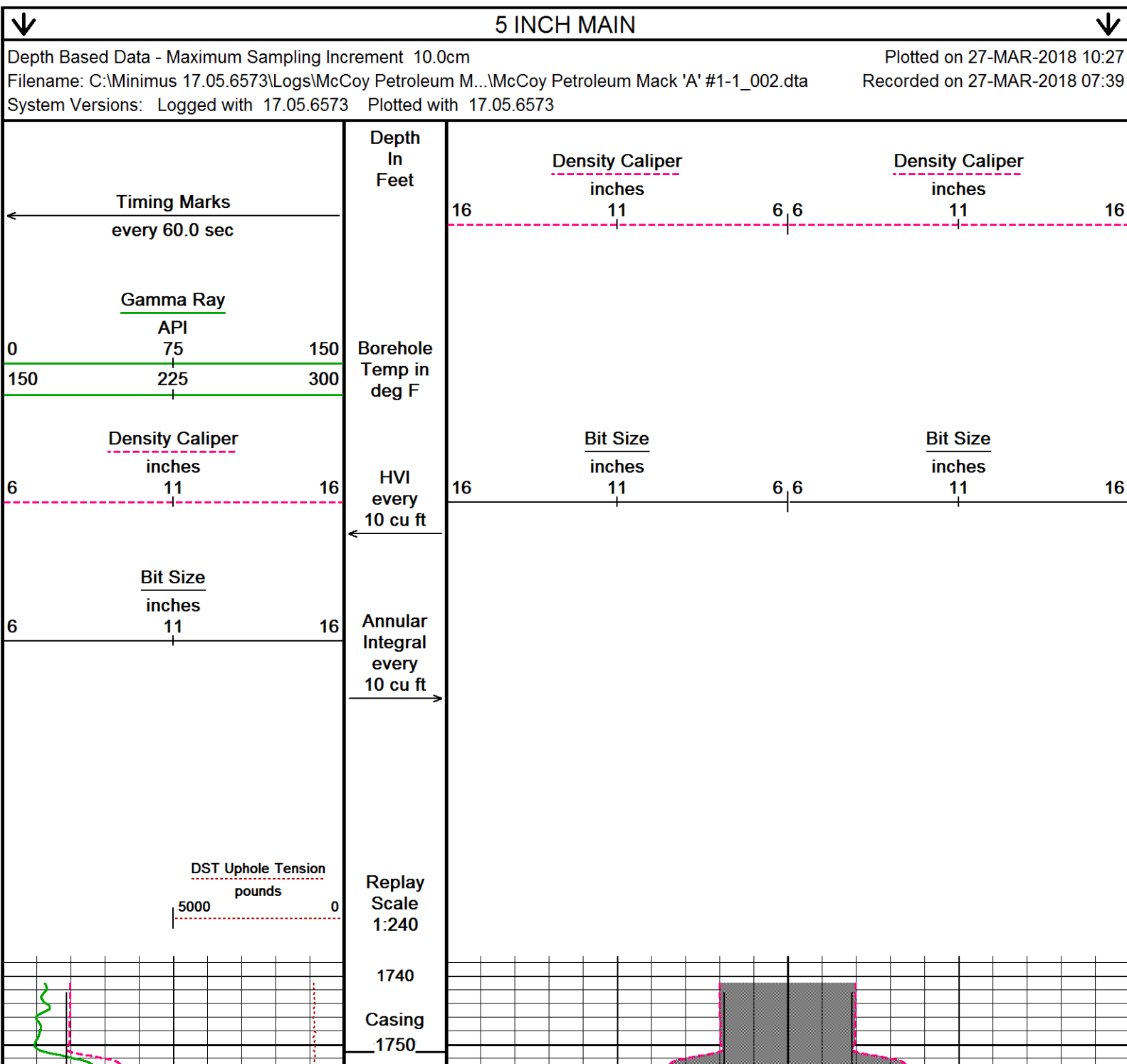
REMARKS
- SOFTWARE ISSUE: WLS 17.05.6573.
- RUN ONE: MCG, MML, MDN, MPD, MFE, MAI RUN IN COMBINATION. - HARDWARE: DUAL BOWSPRING USED ON MDN. 0.5 INCH STANDOFF USED ON MFE. 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1655 CU.FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO 3200 FEET: 695 CU.FT.
- RIG: STERLING #5

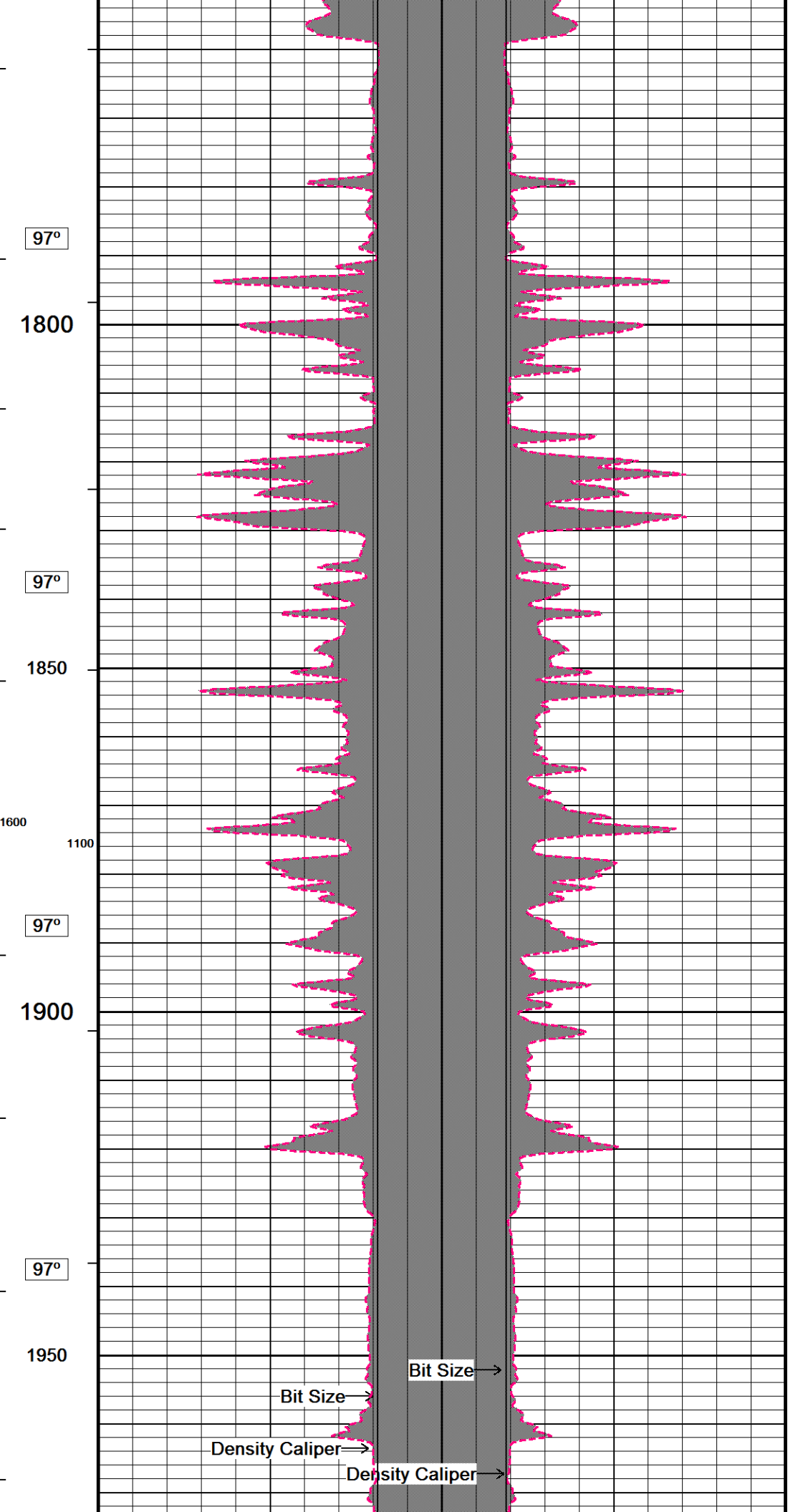
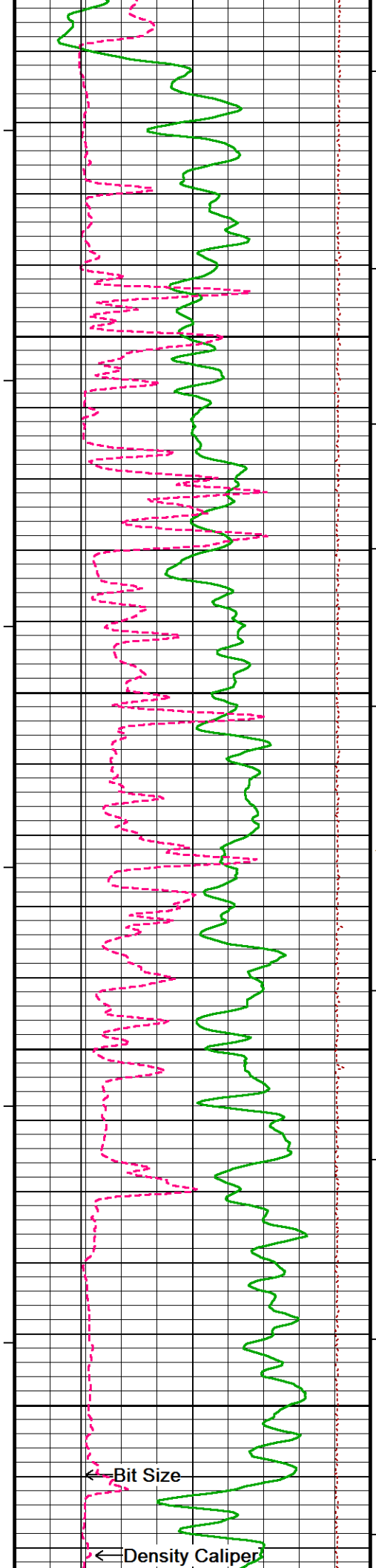
RIC: OPERING #3.

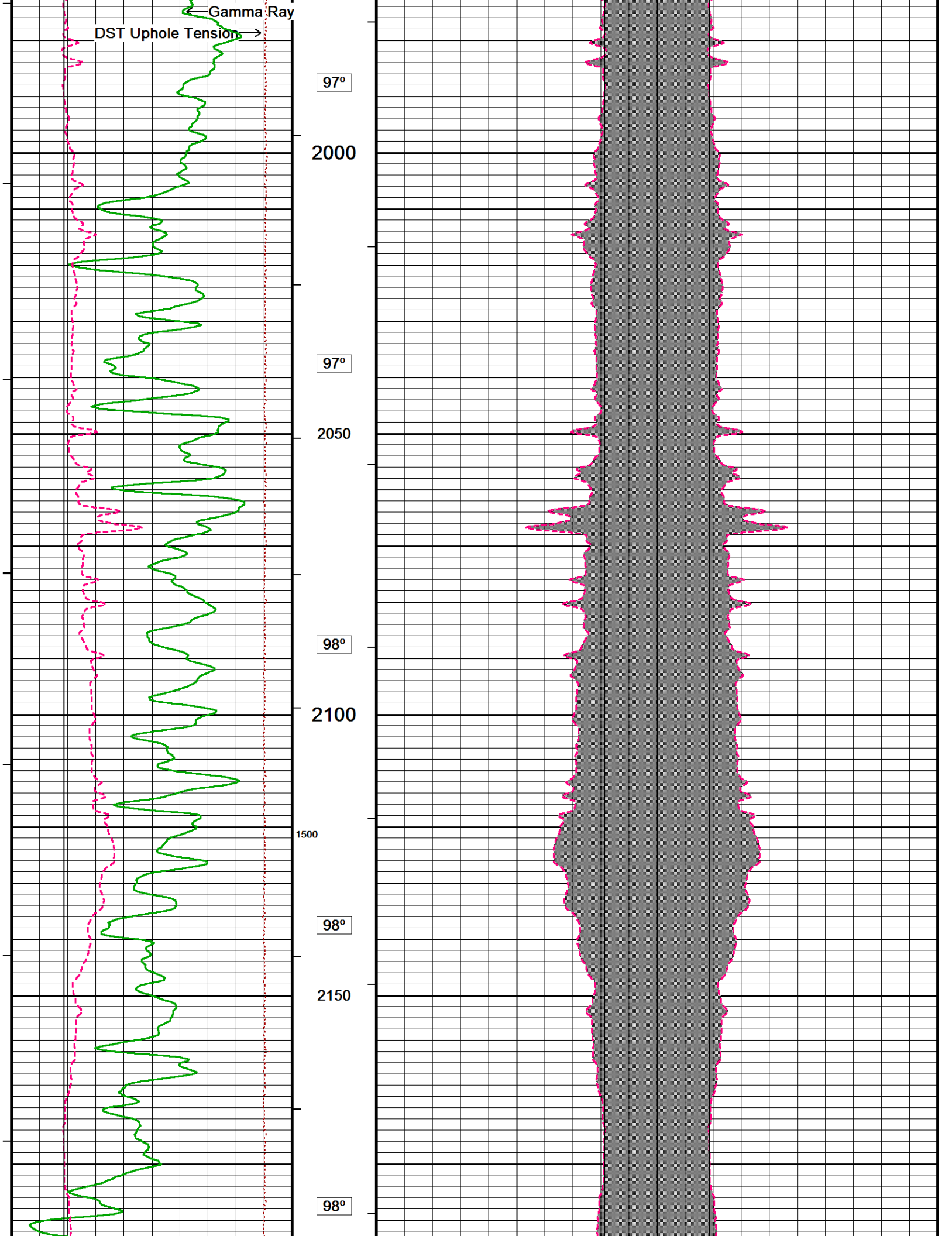
- ENGINEER: A. SILL.

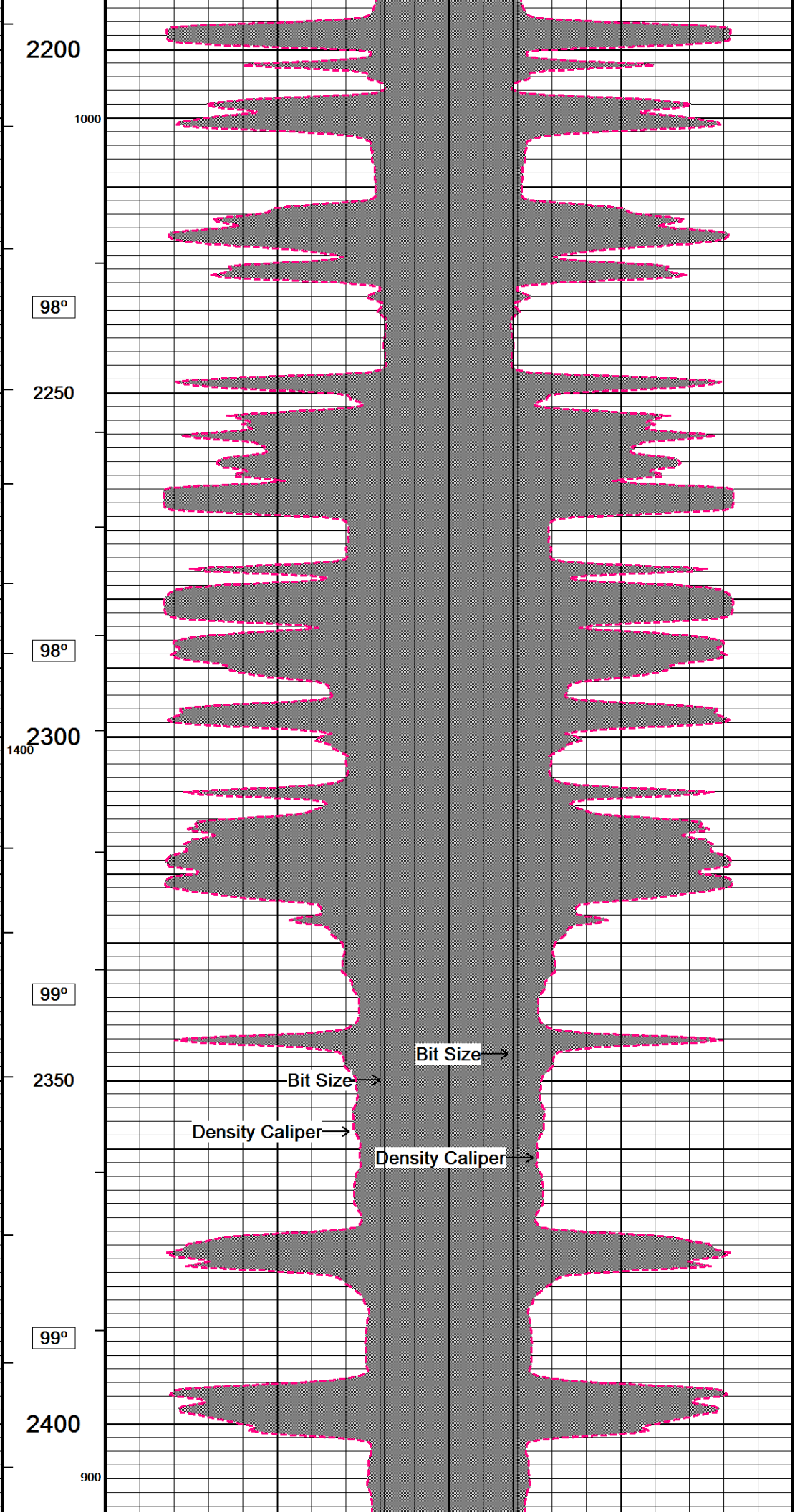
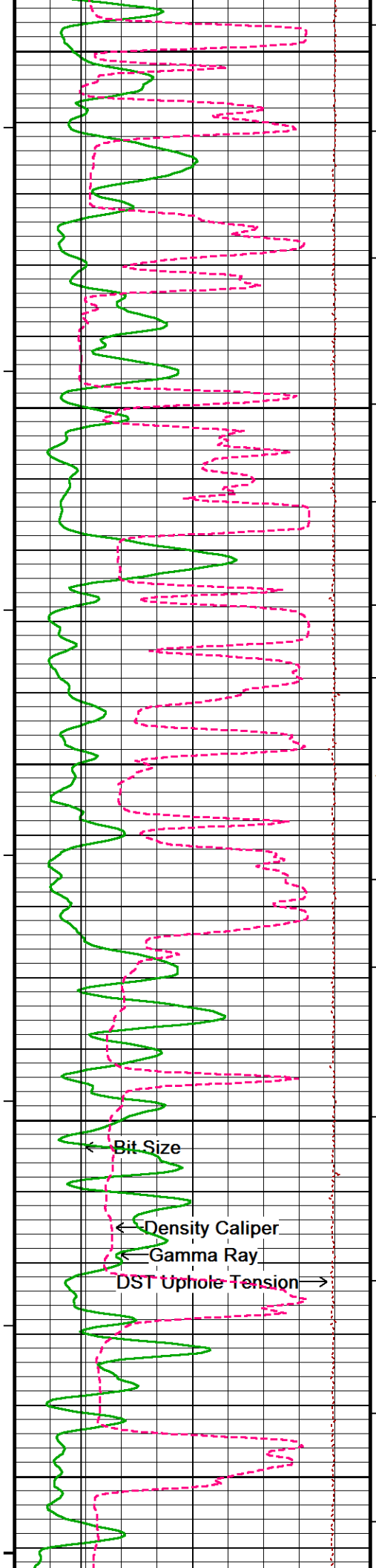
- OPERATOR: B. TOVAR, B. COPELAND.

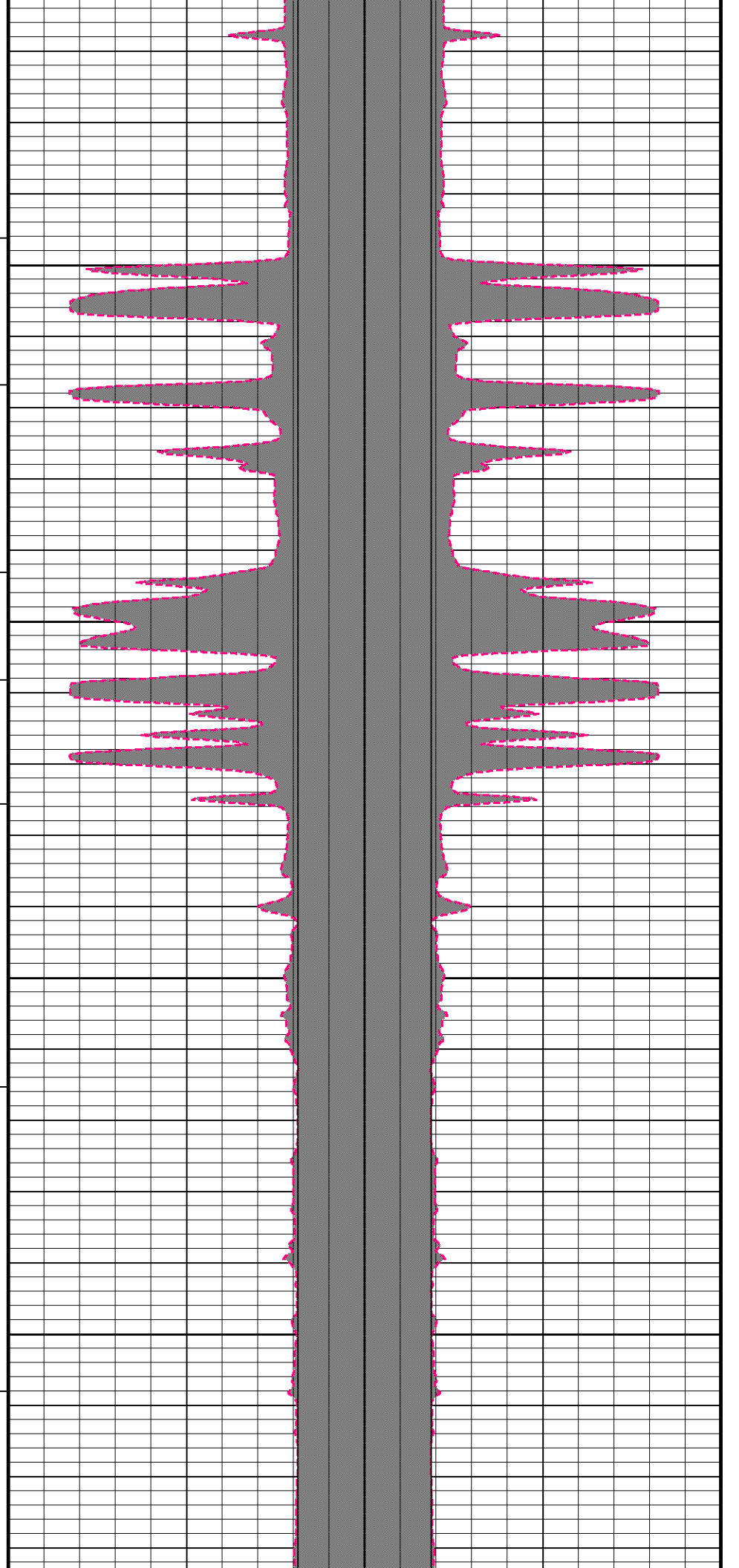
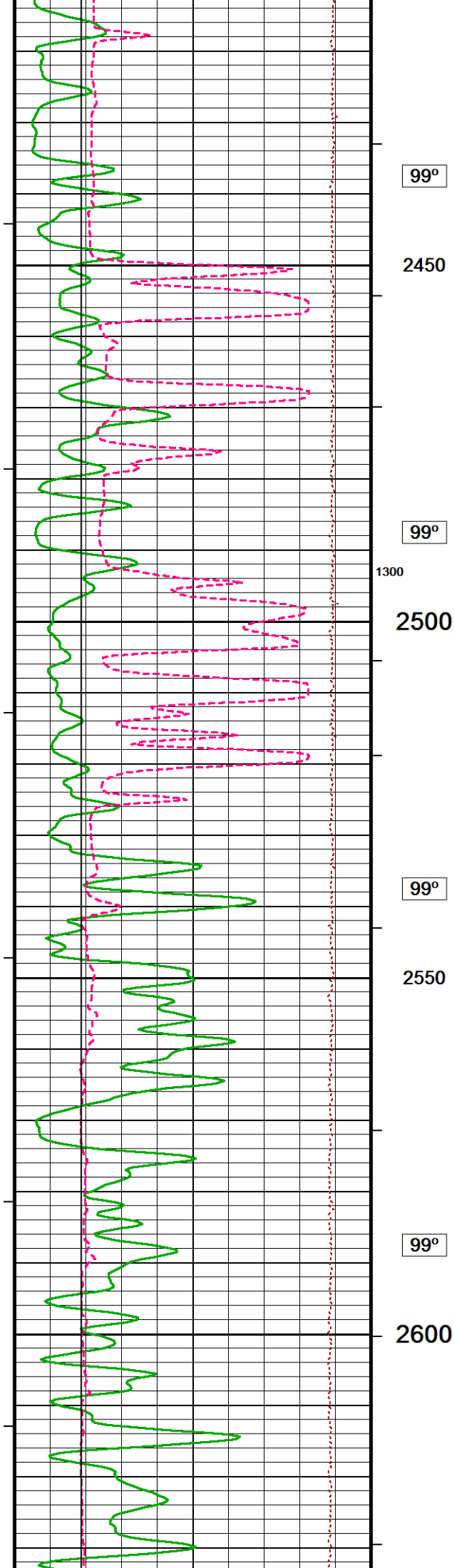
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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

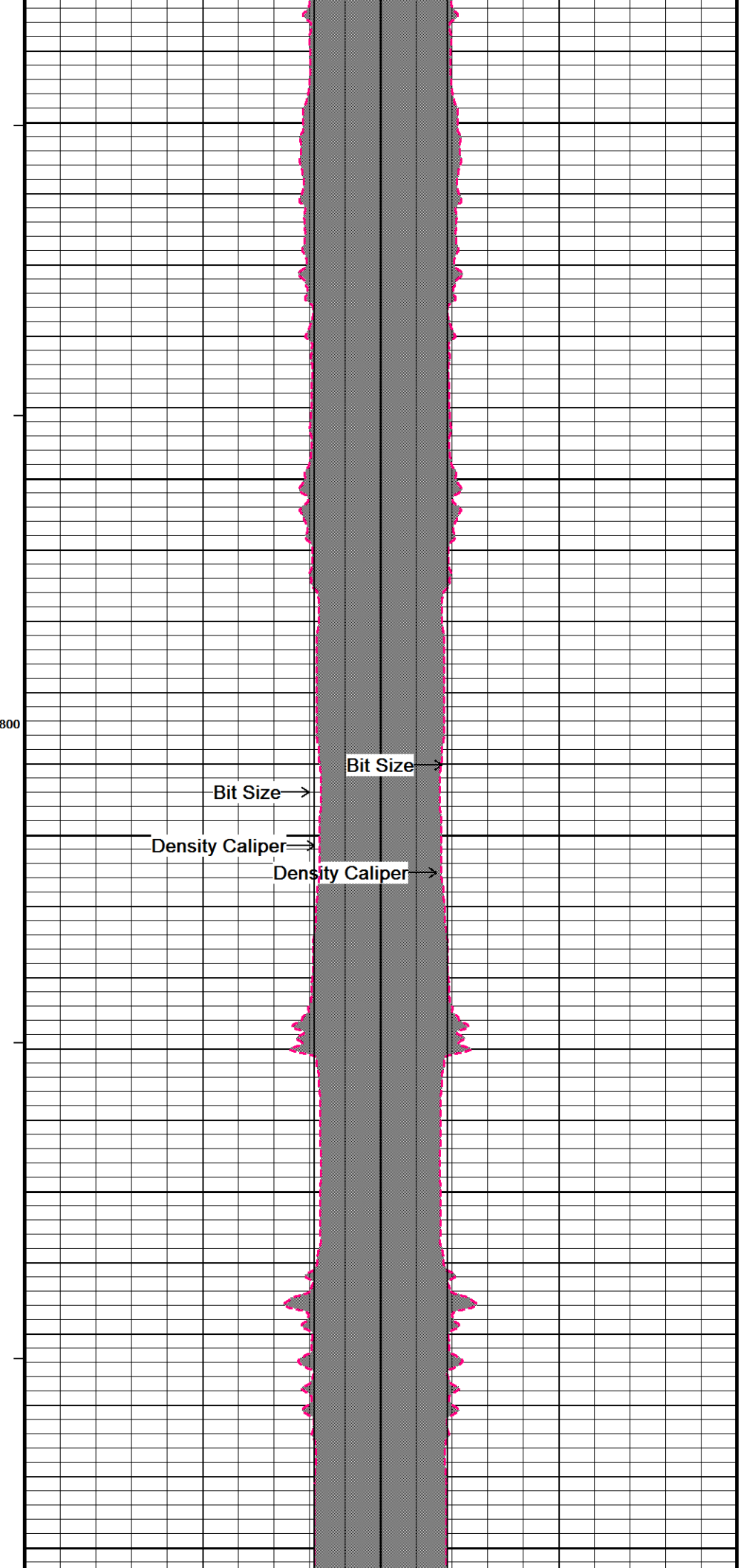
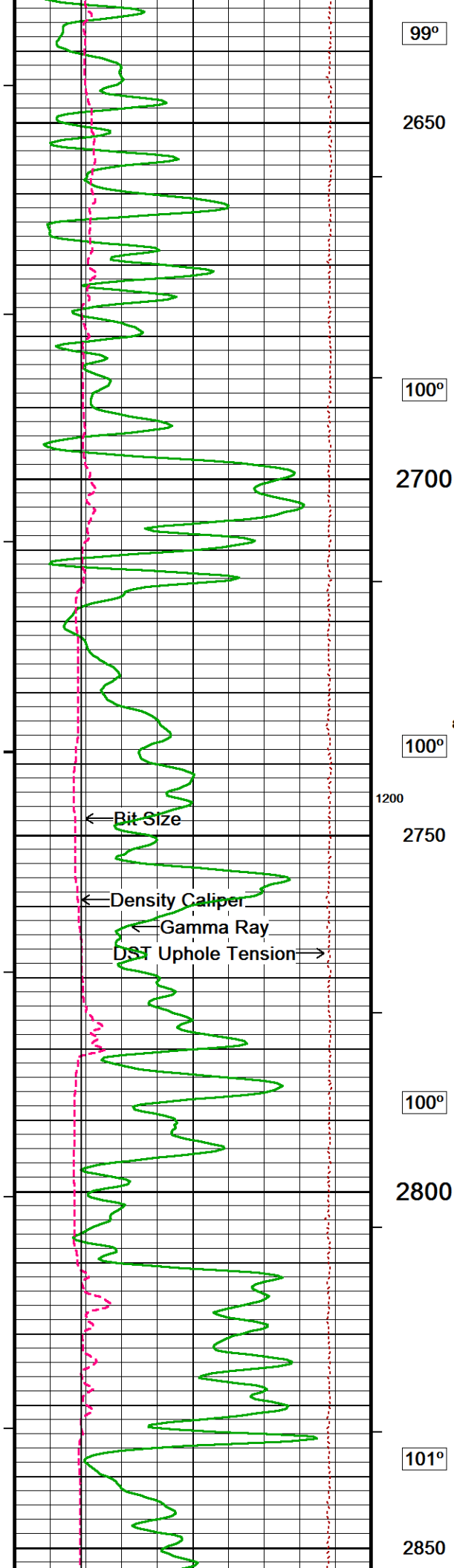


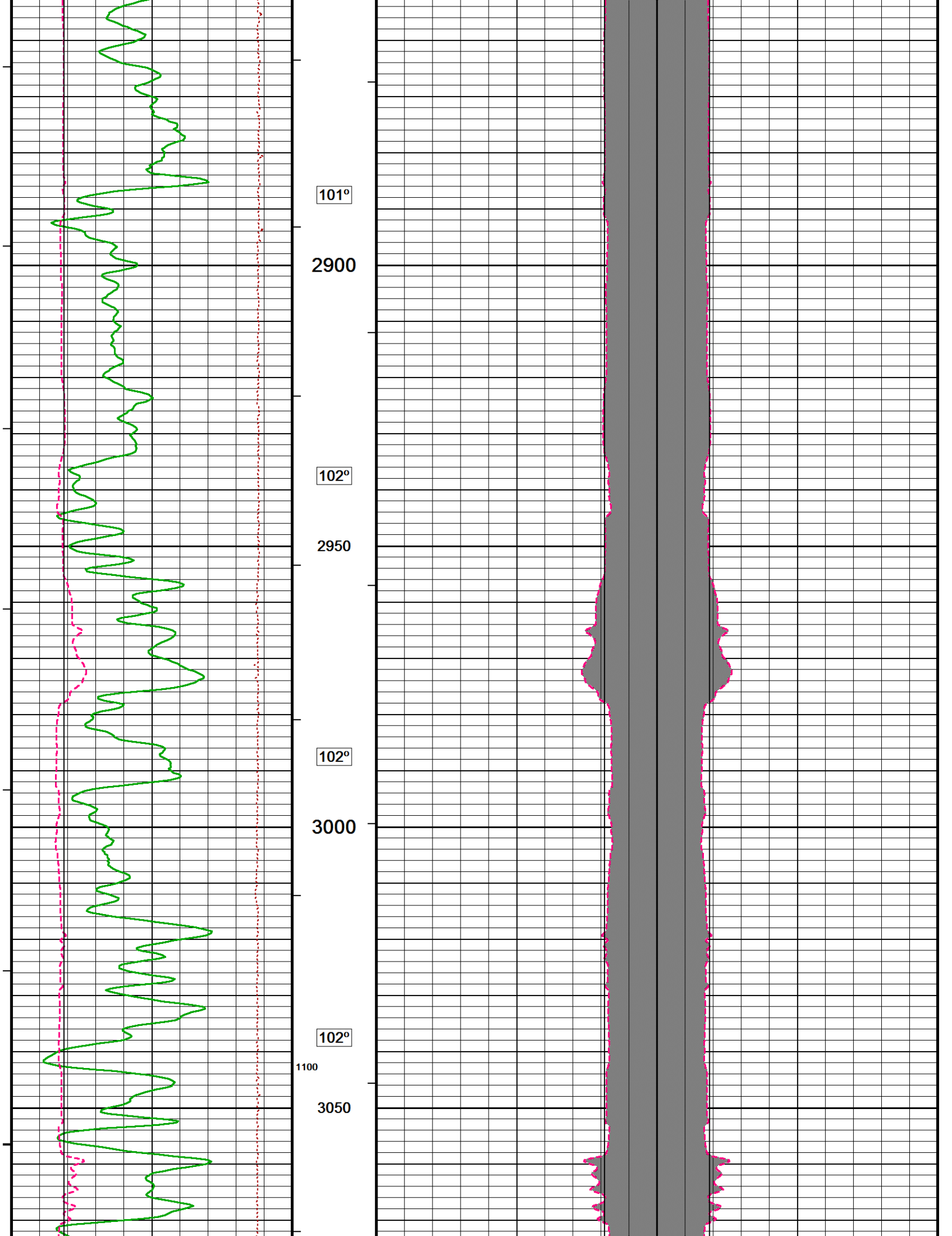


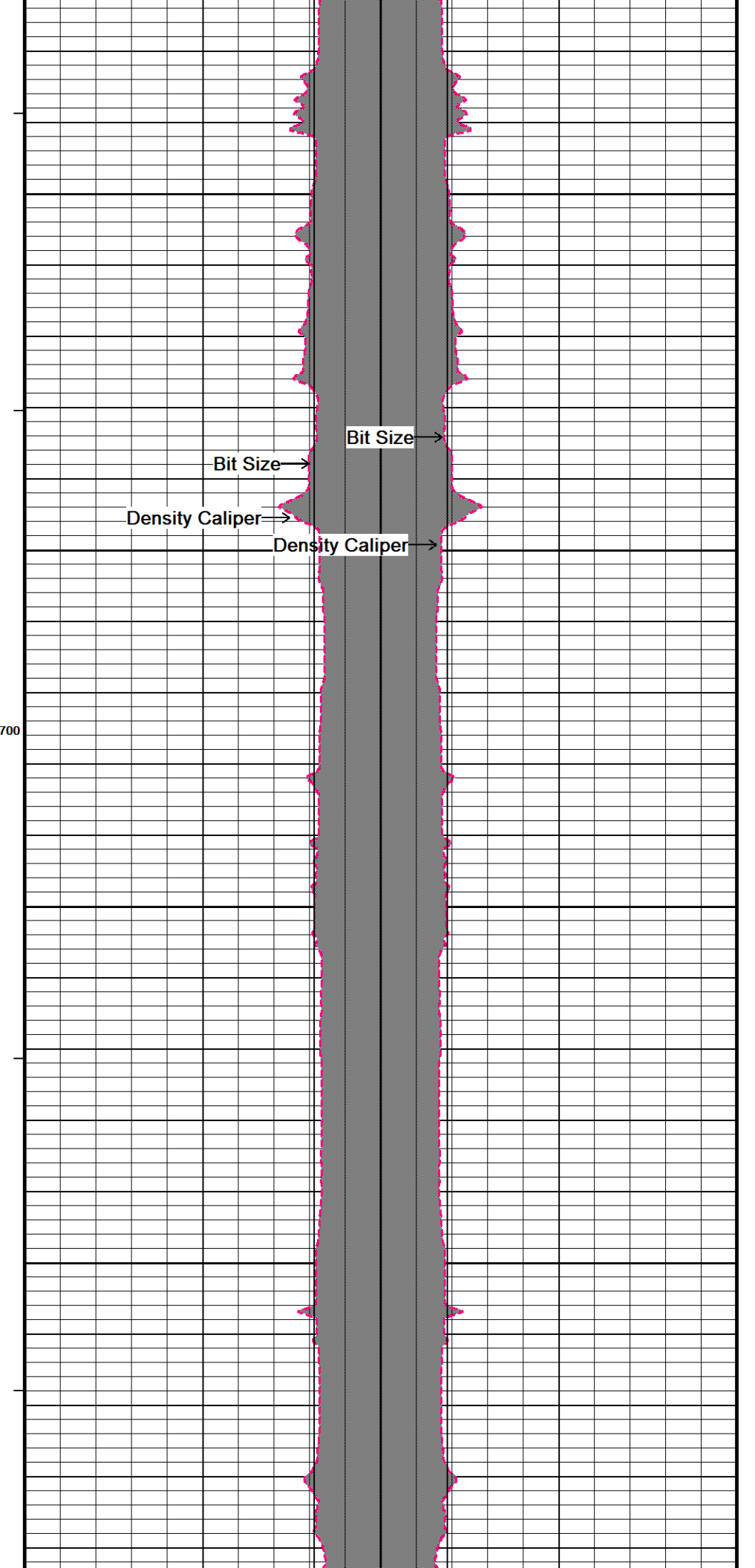
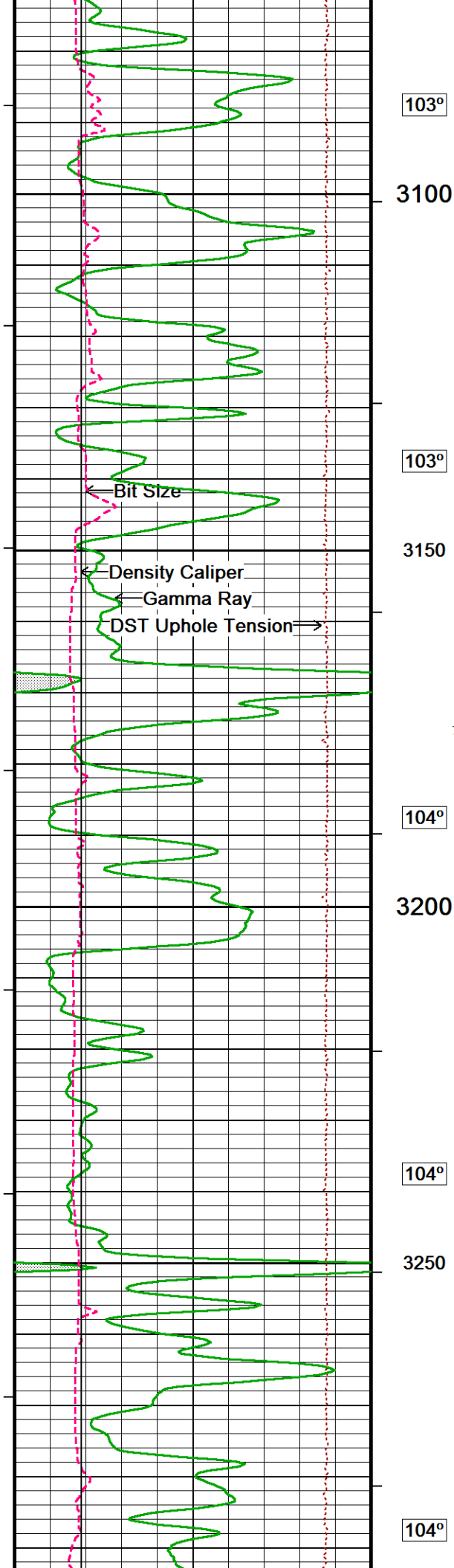


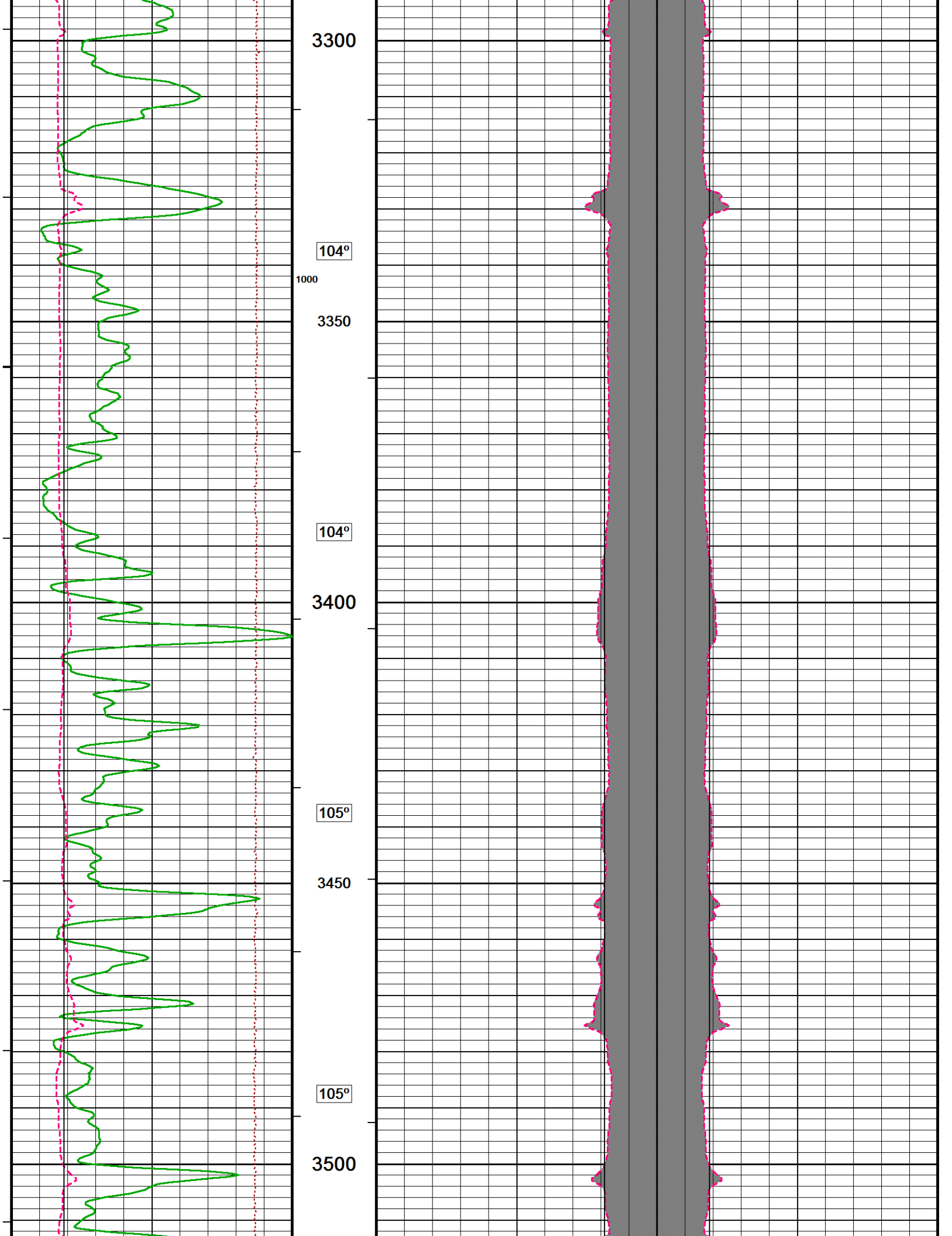


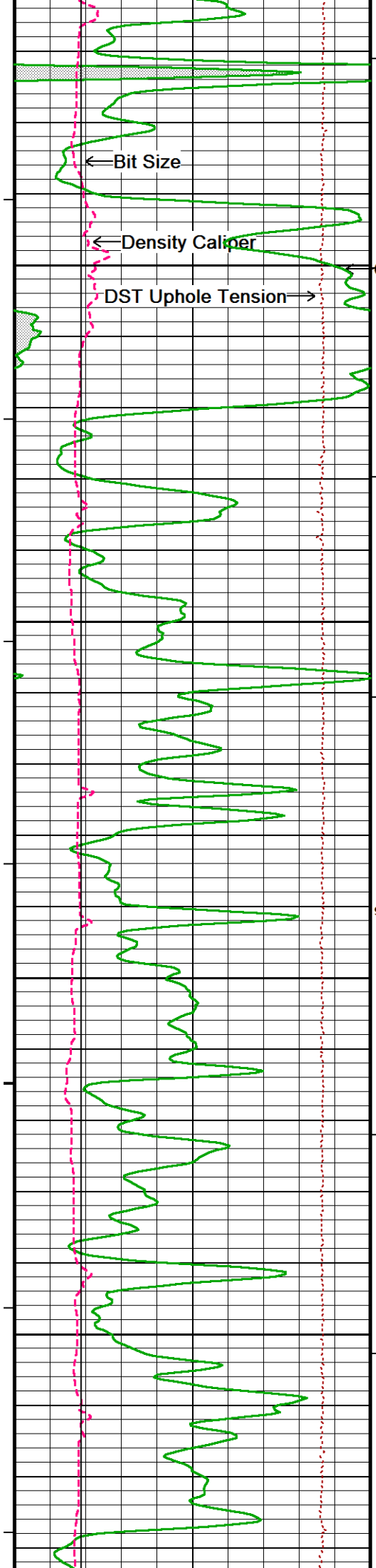




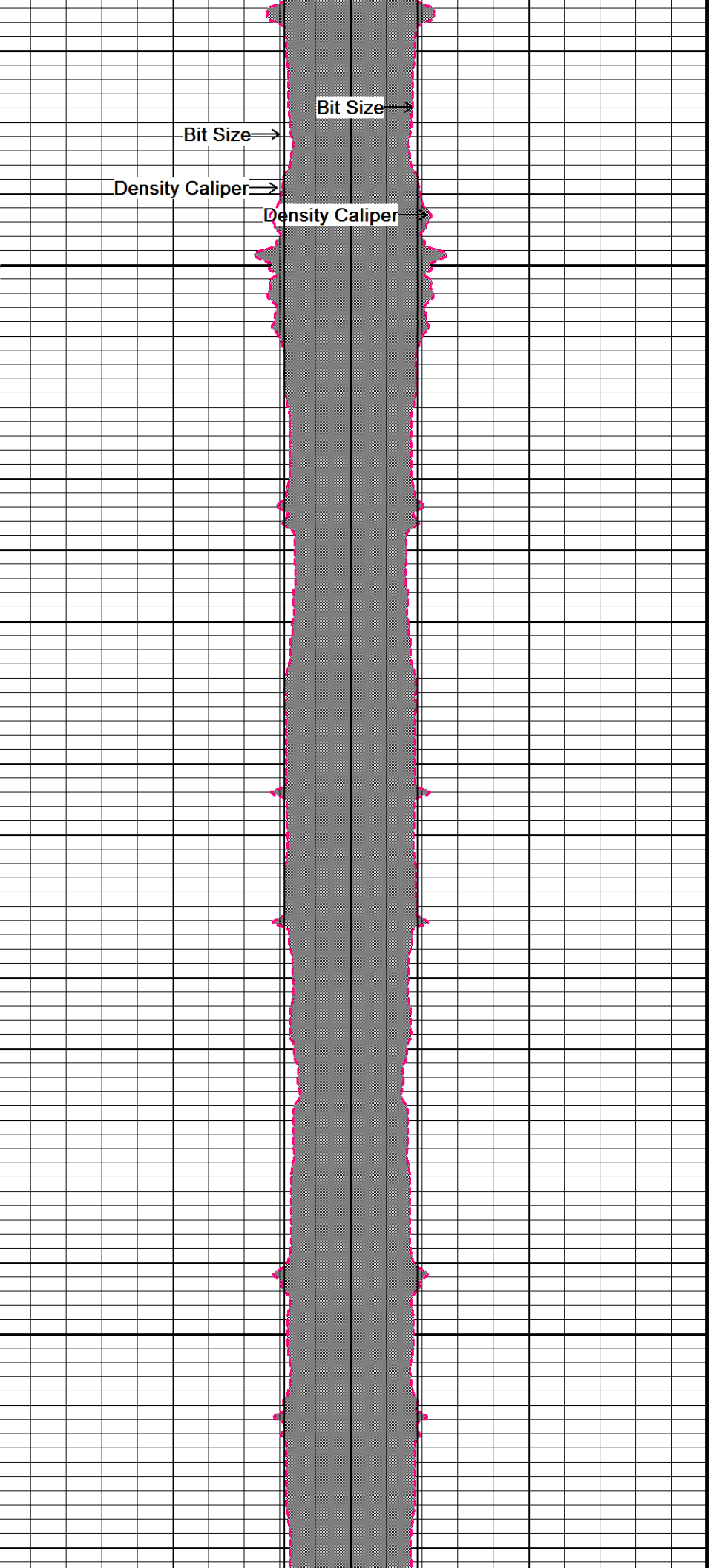


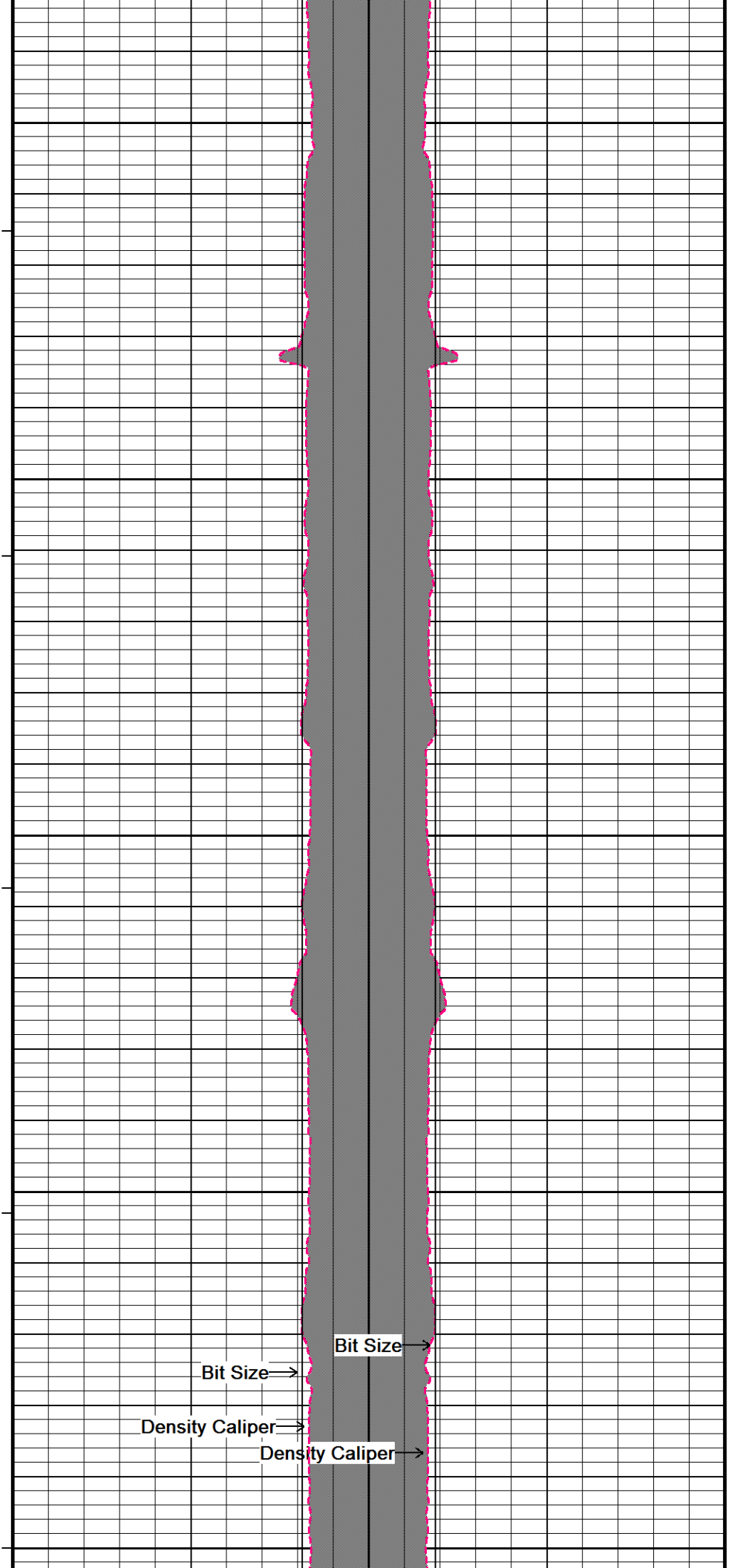
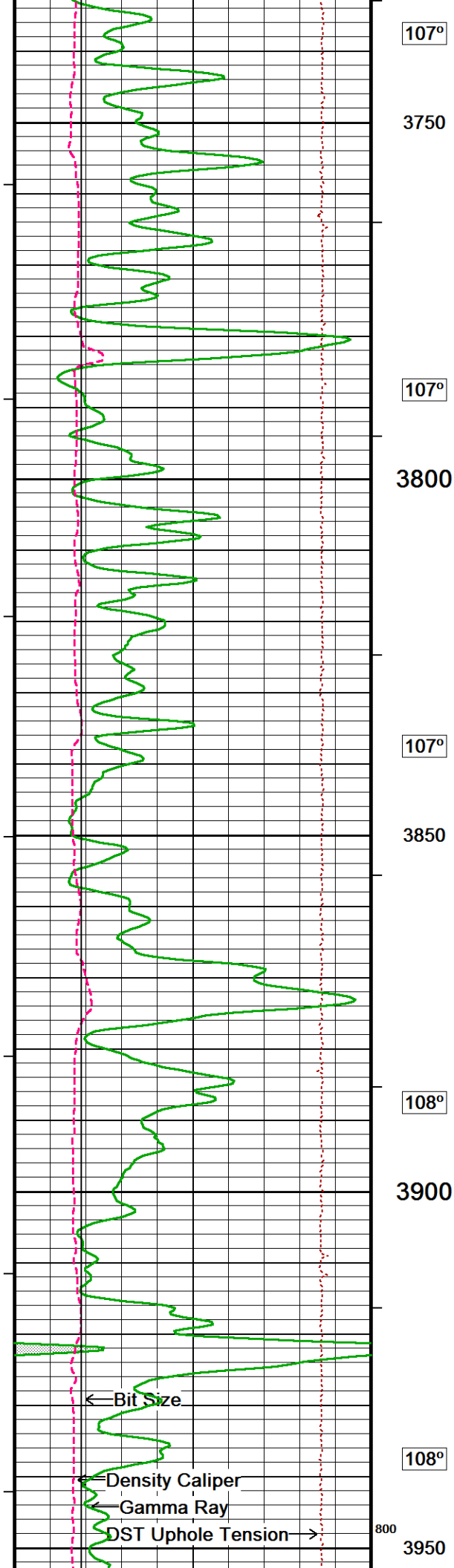


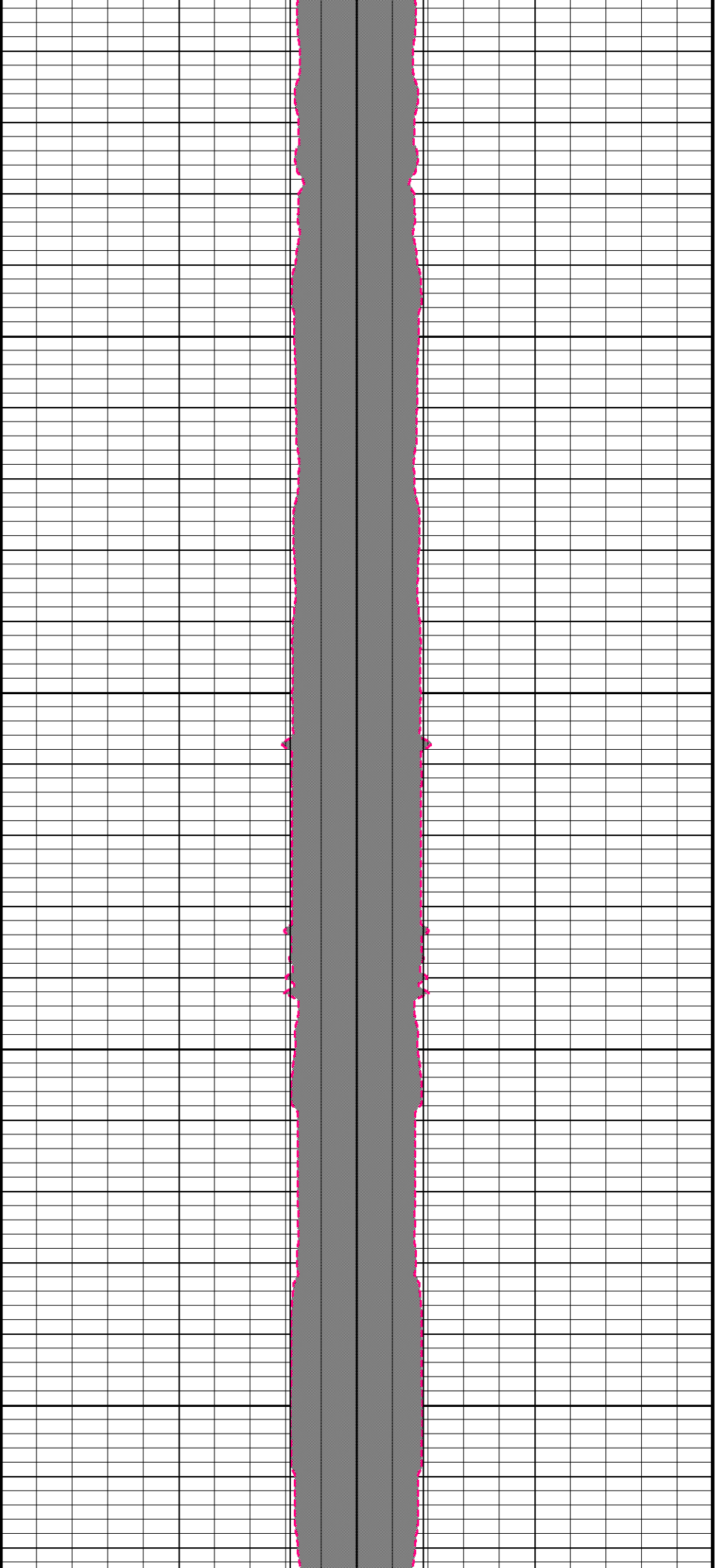
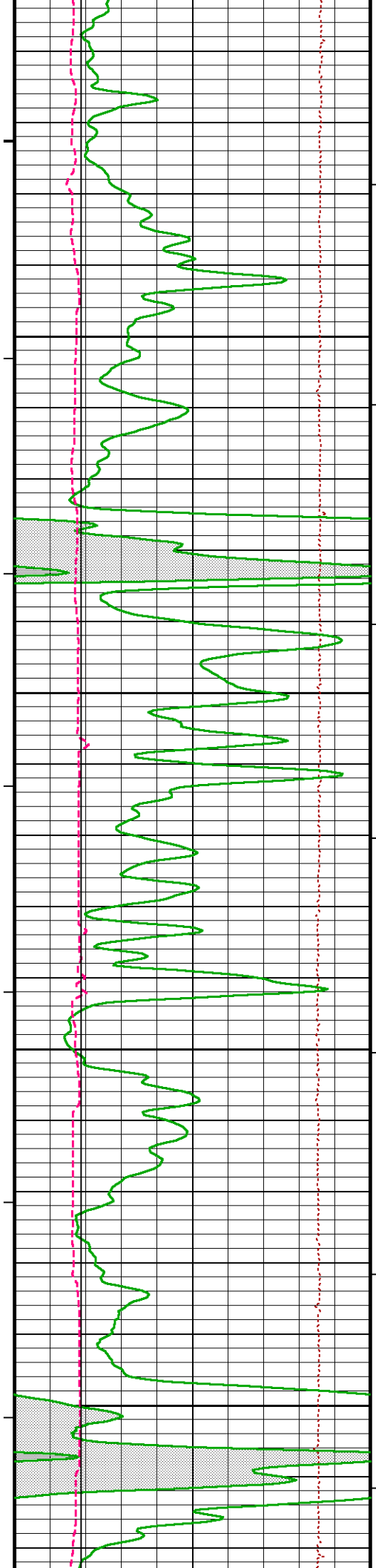


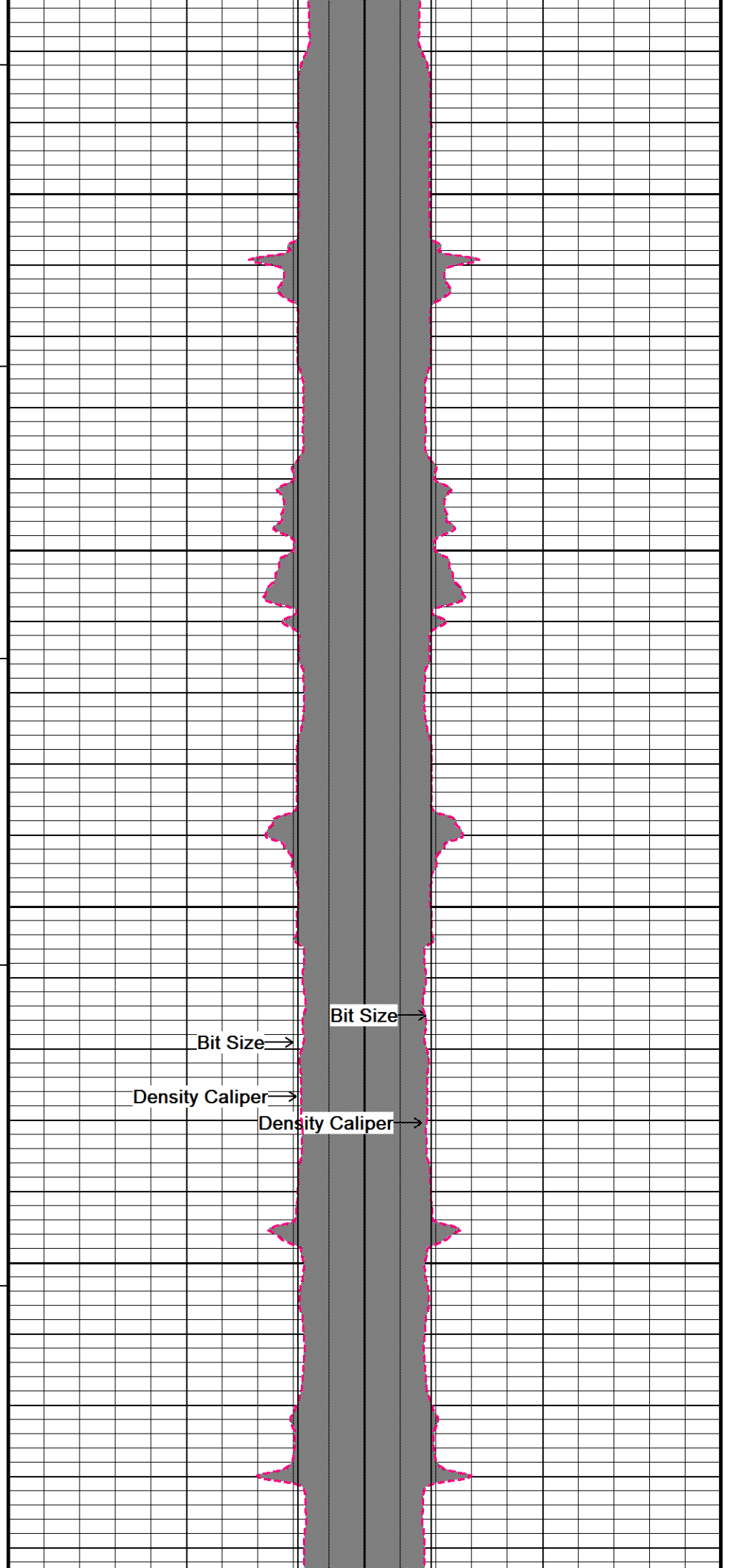
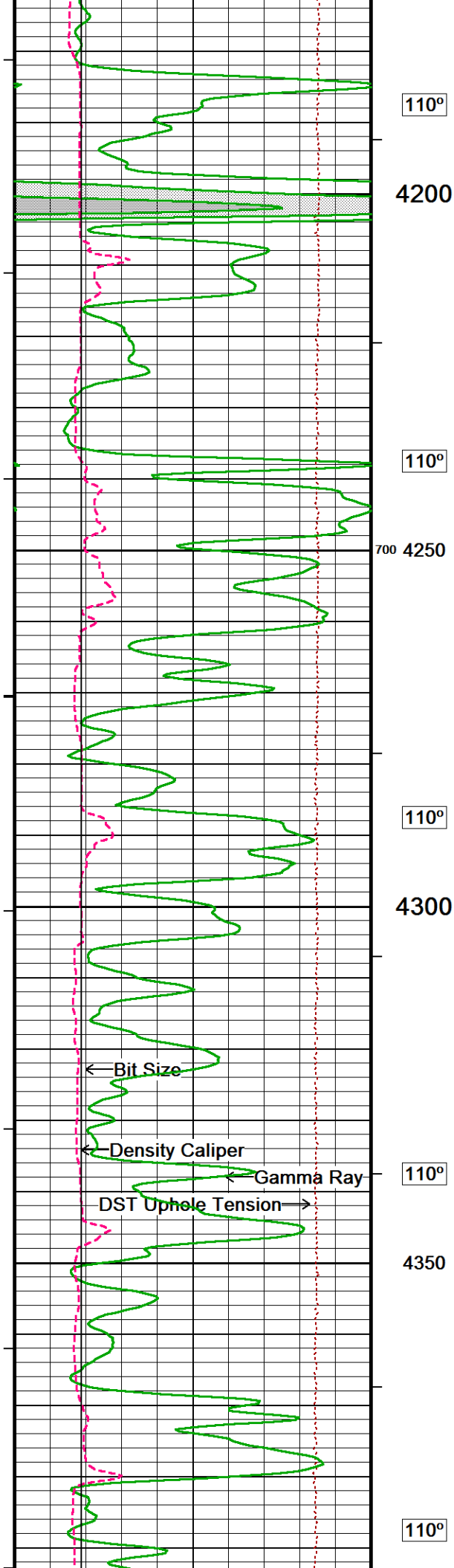


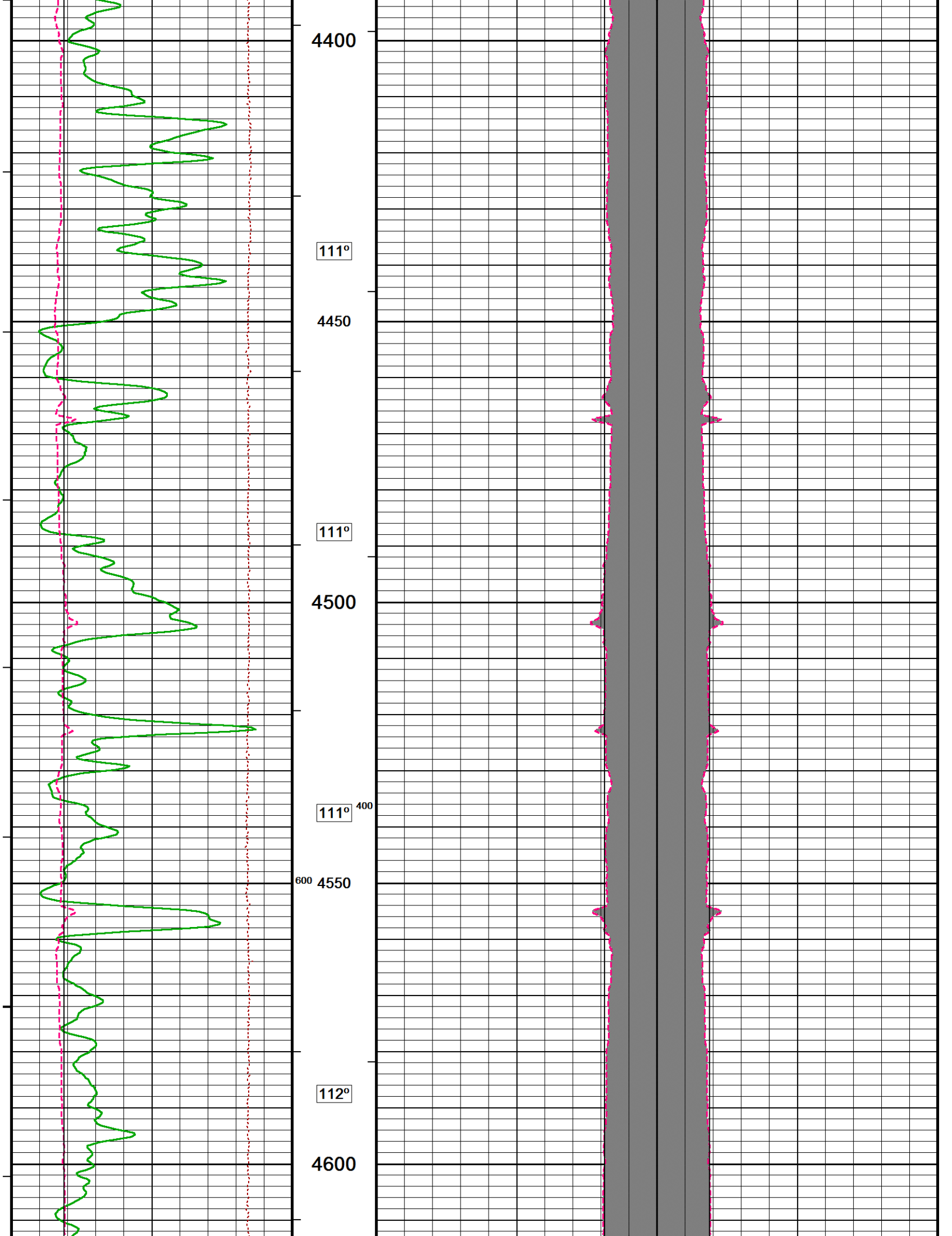
106°
106°
3600
600
106°
3650
900
106°
3700

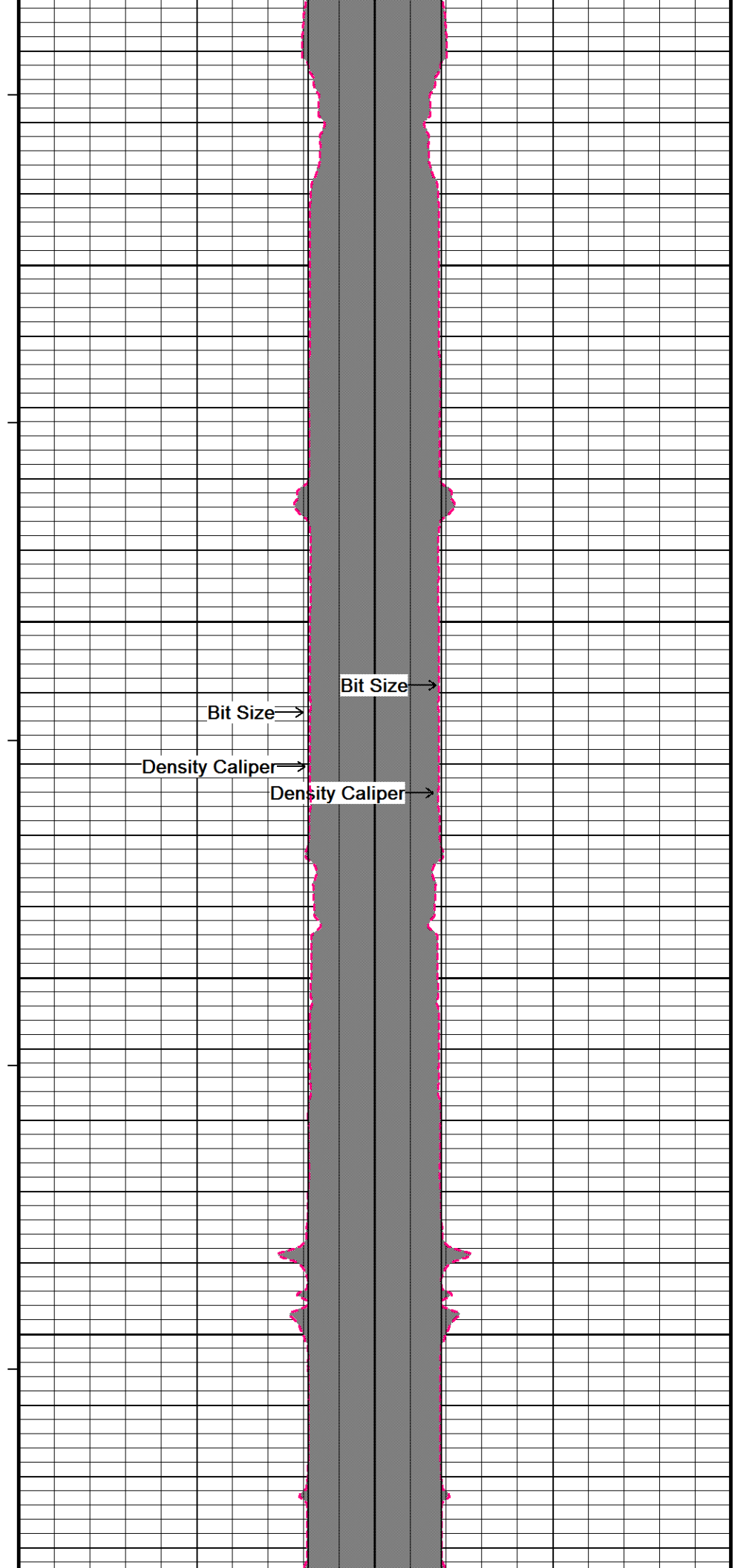
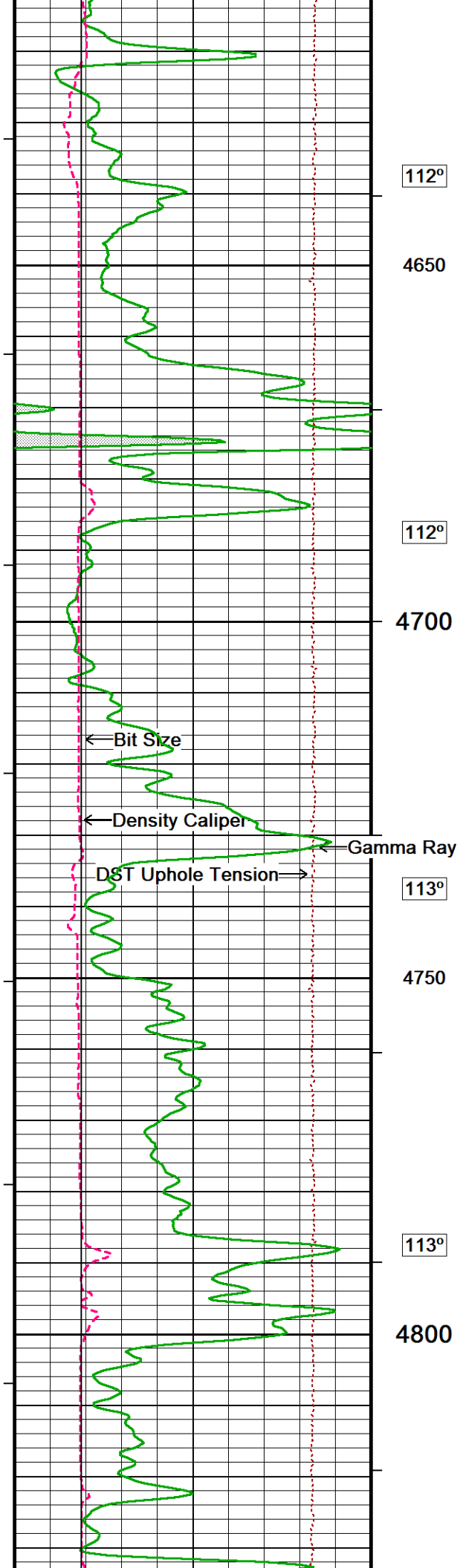


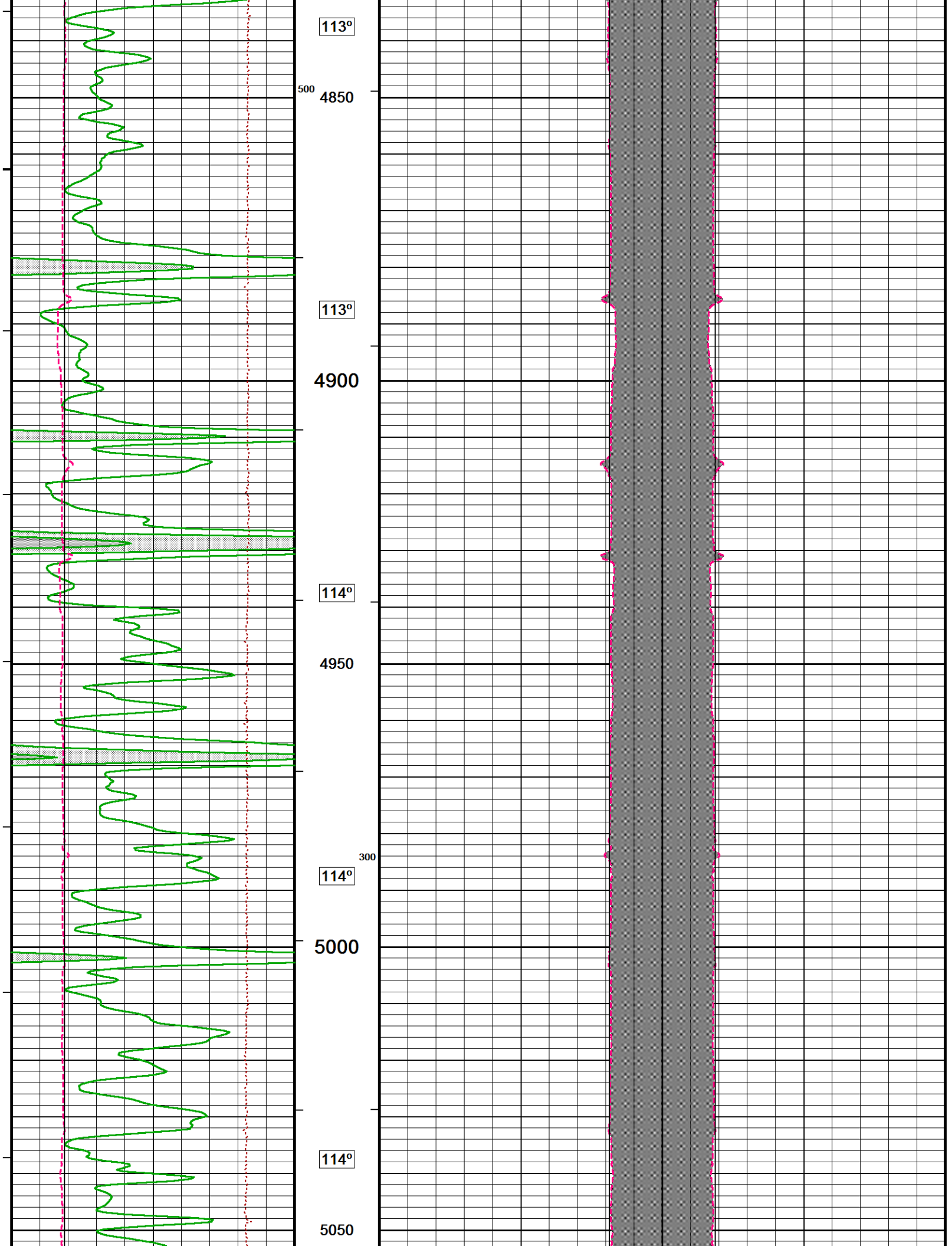


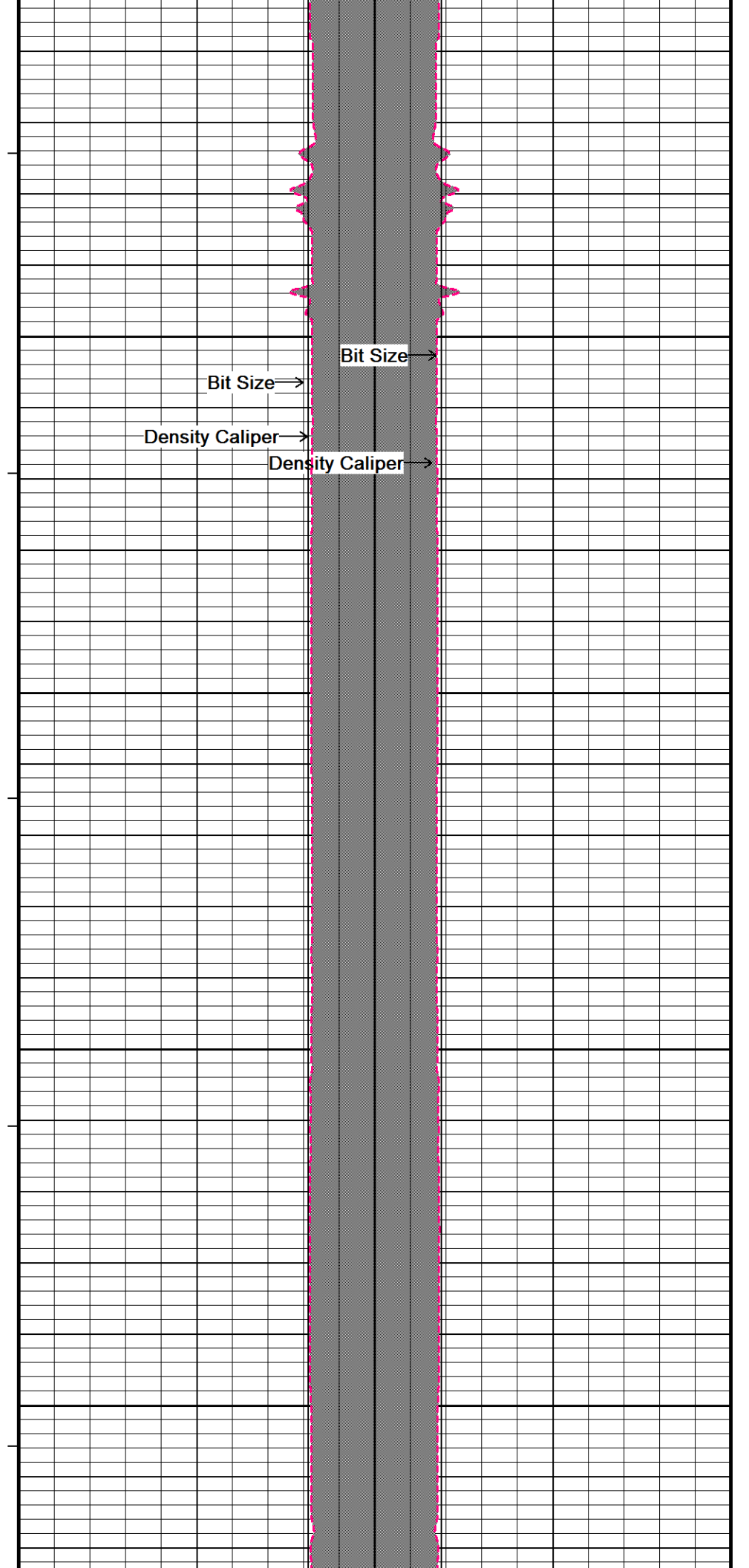
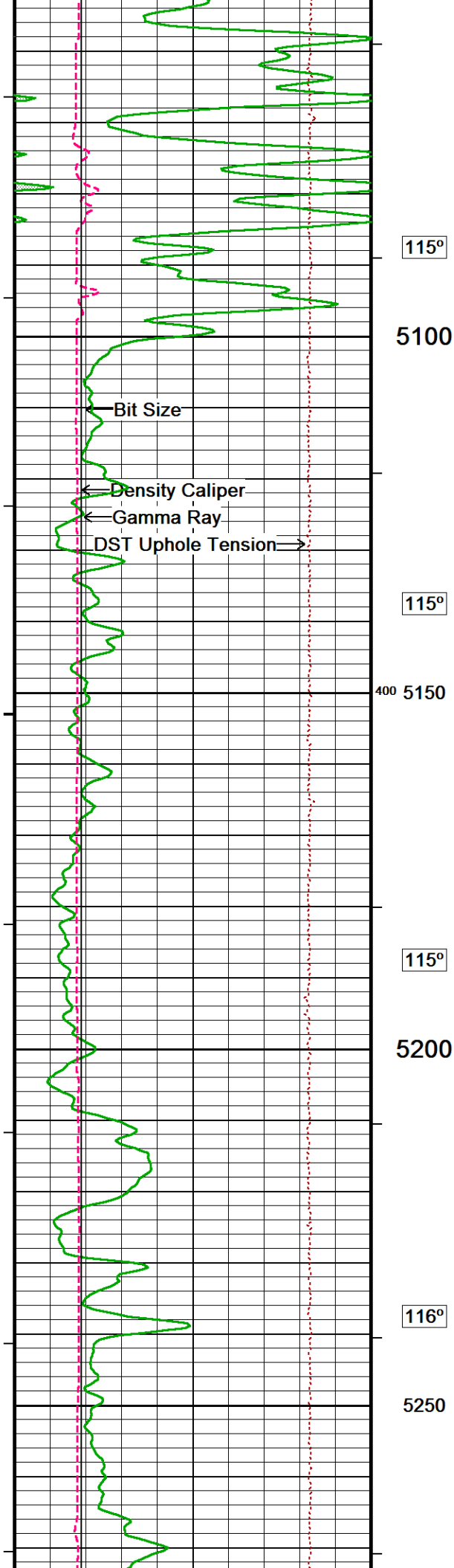


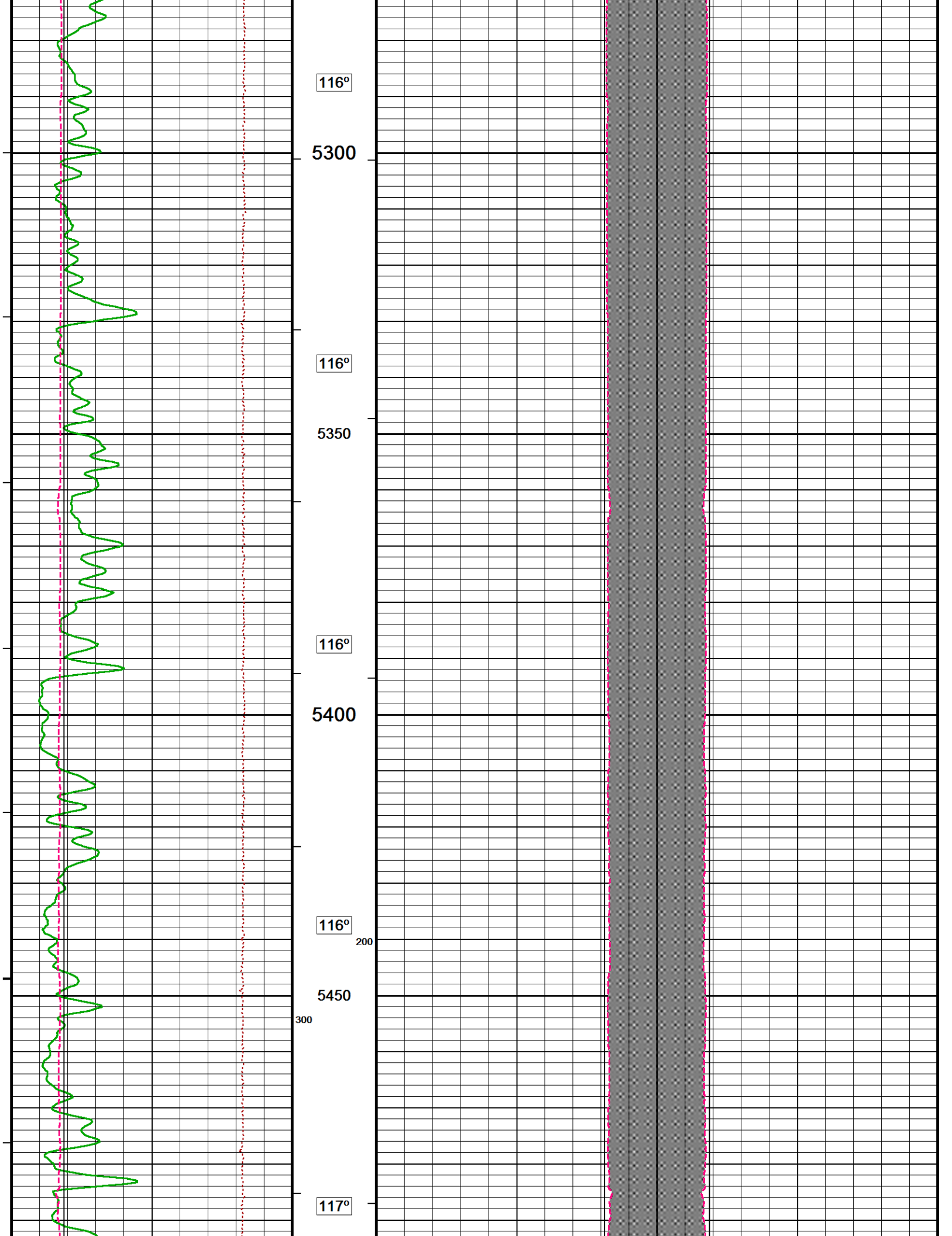


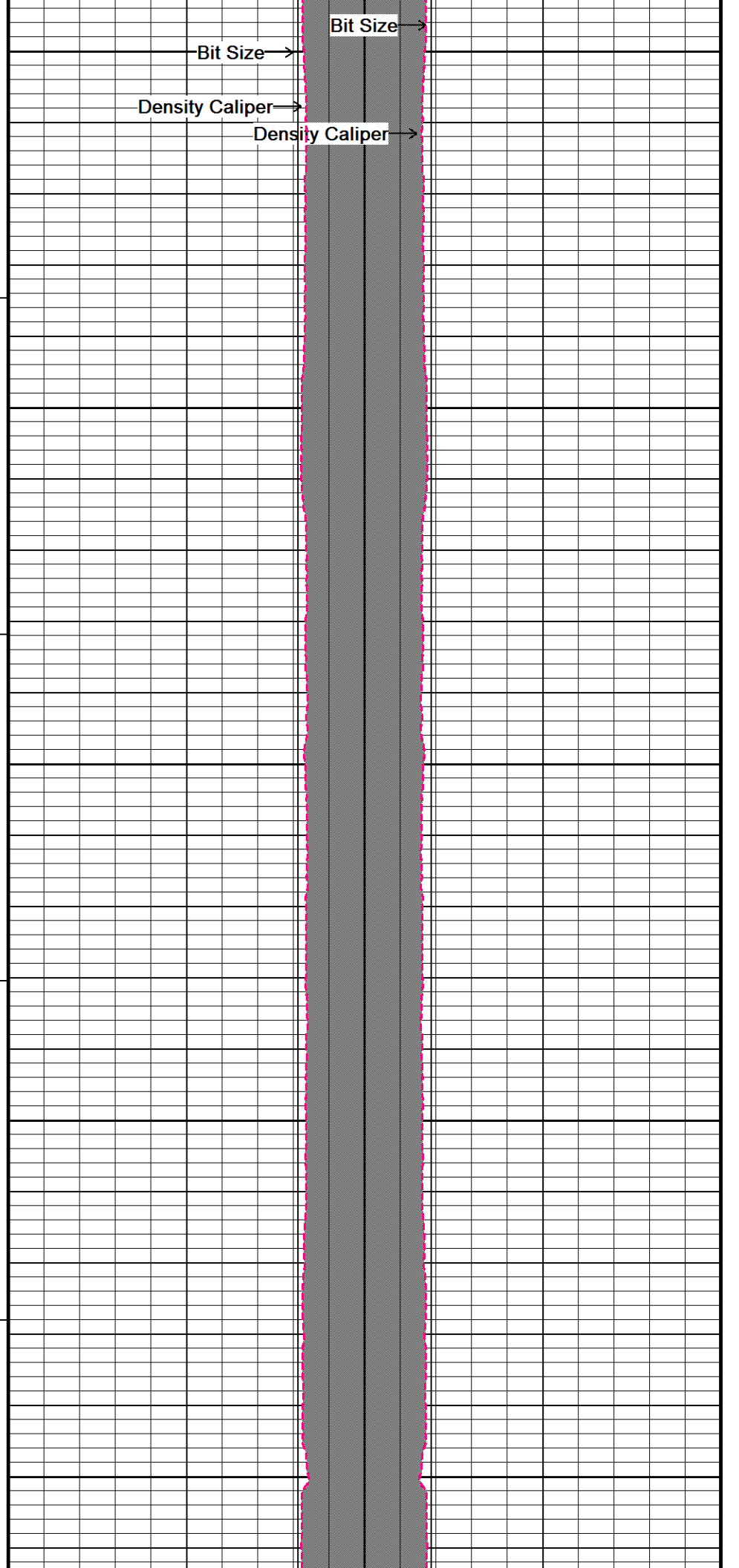
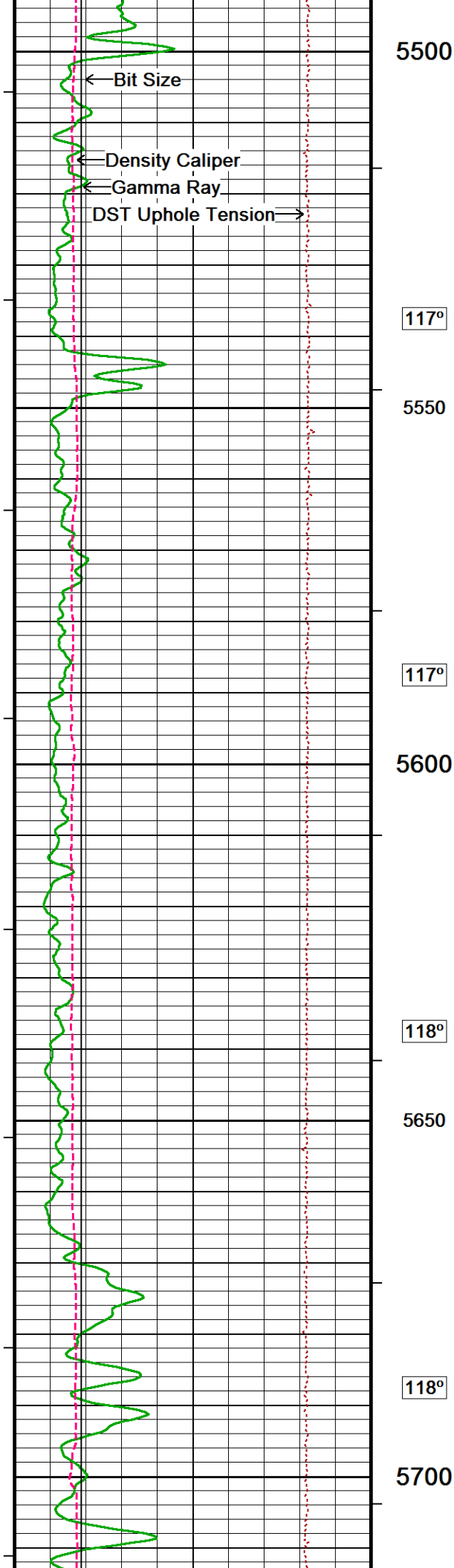


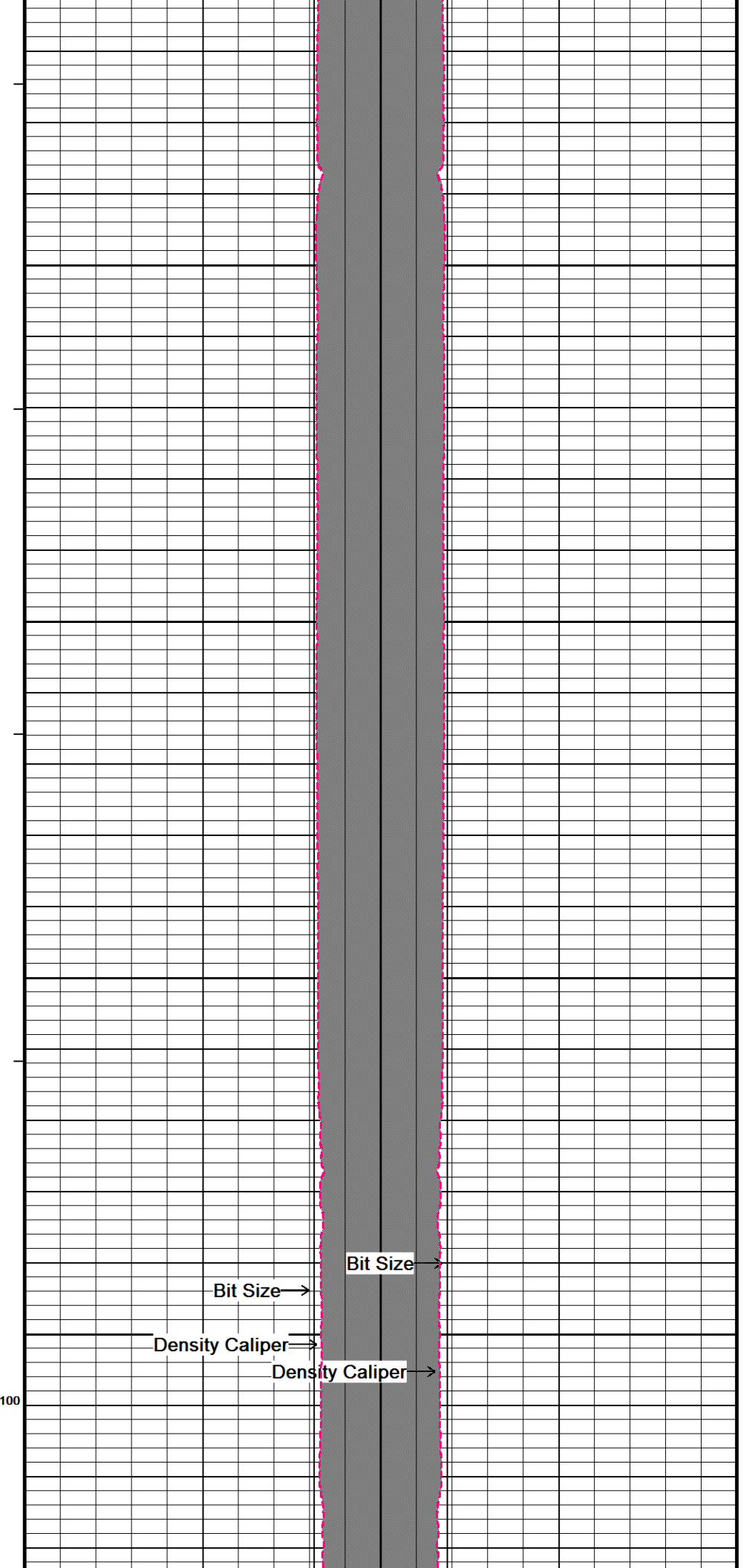
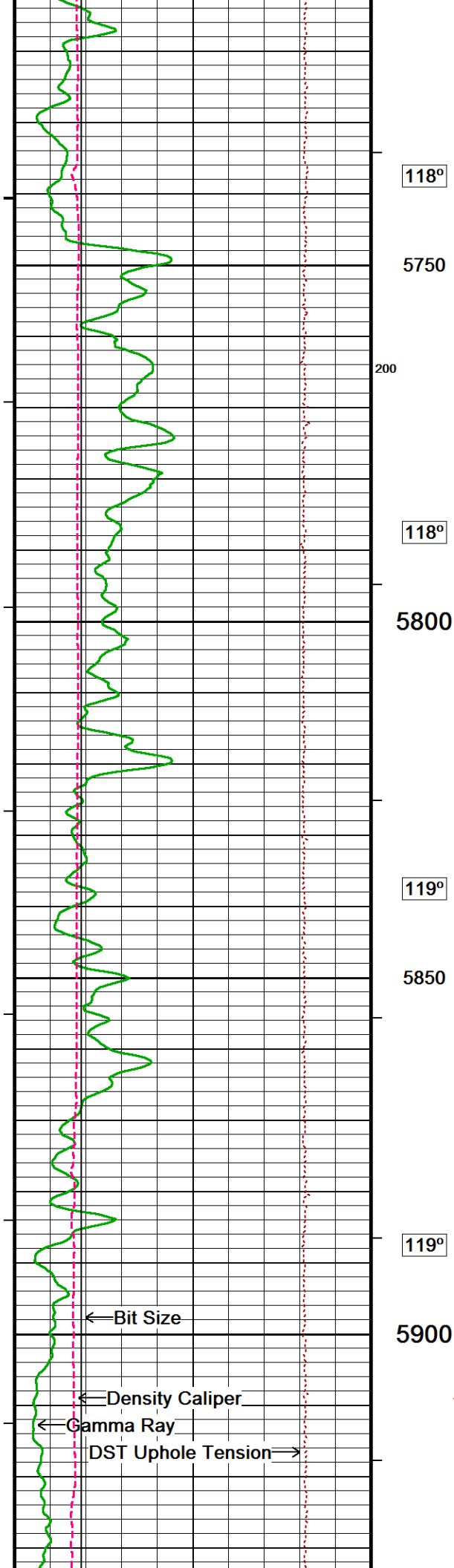


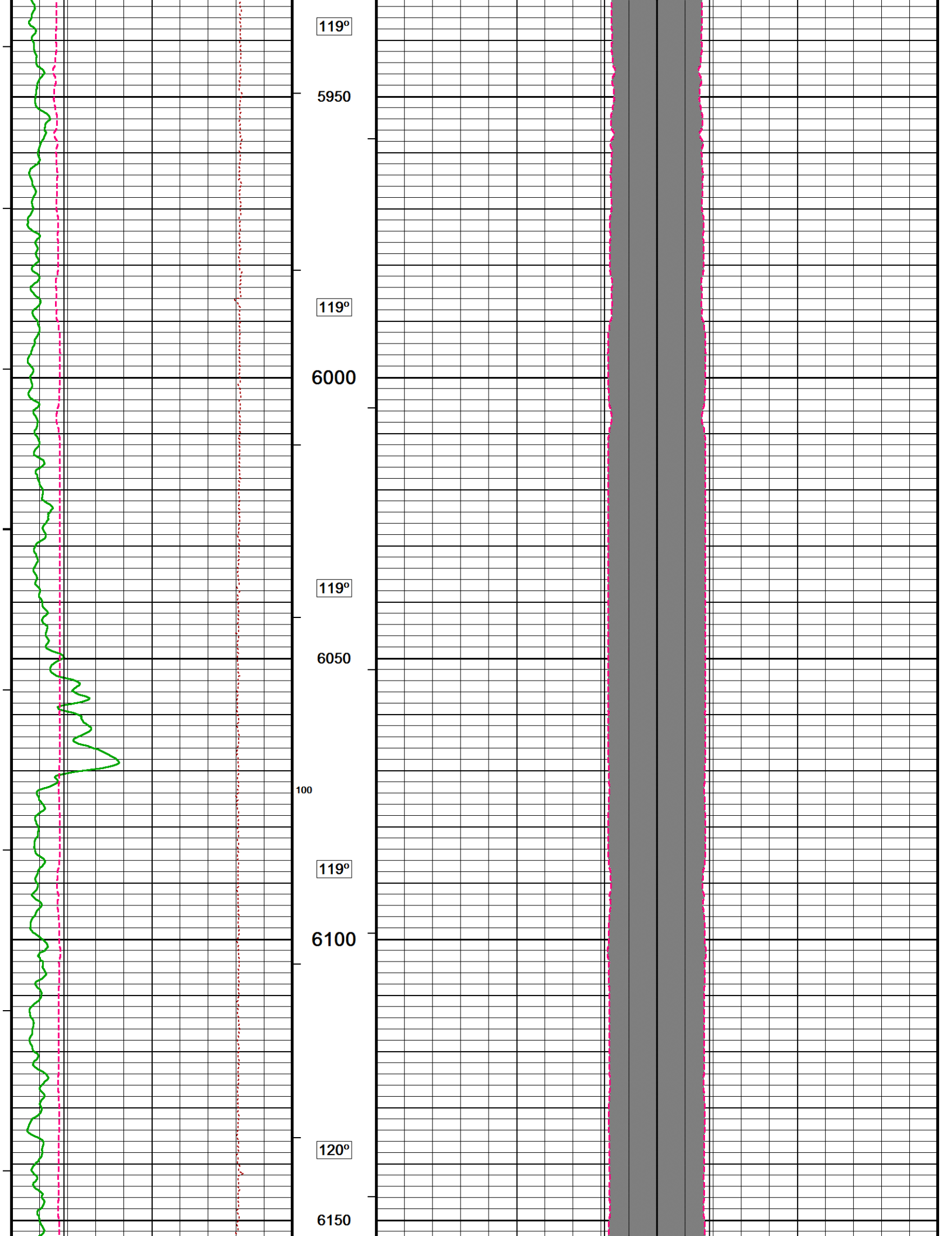


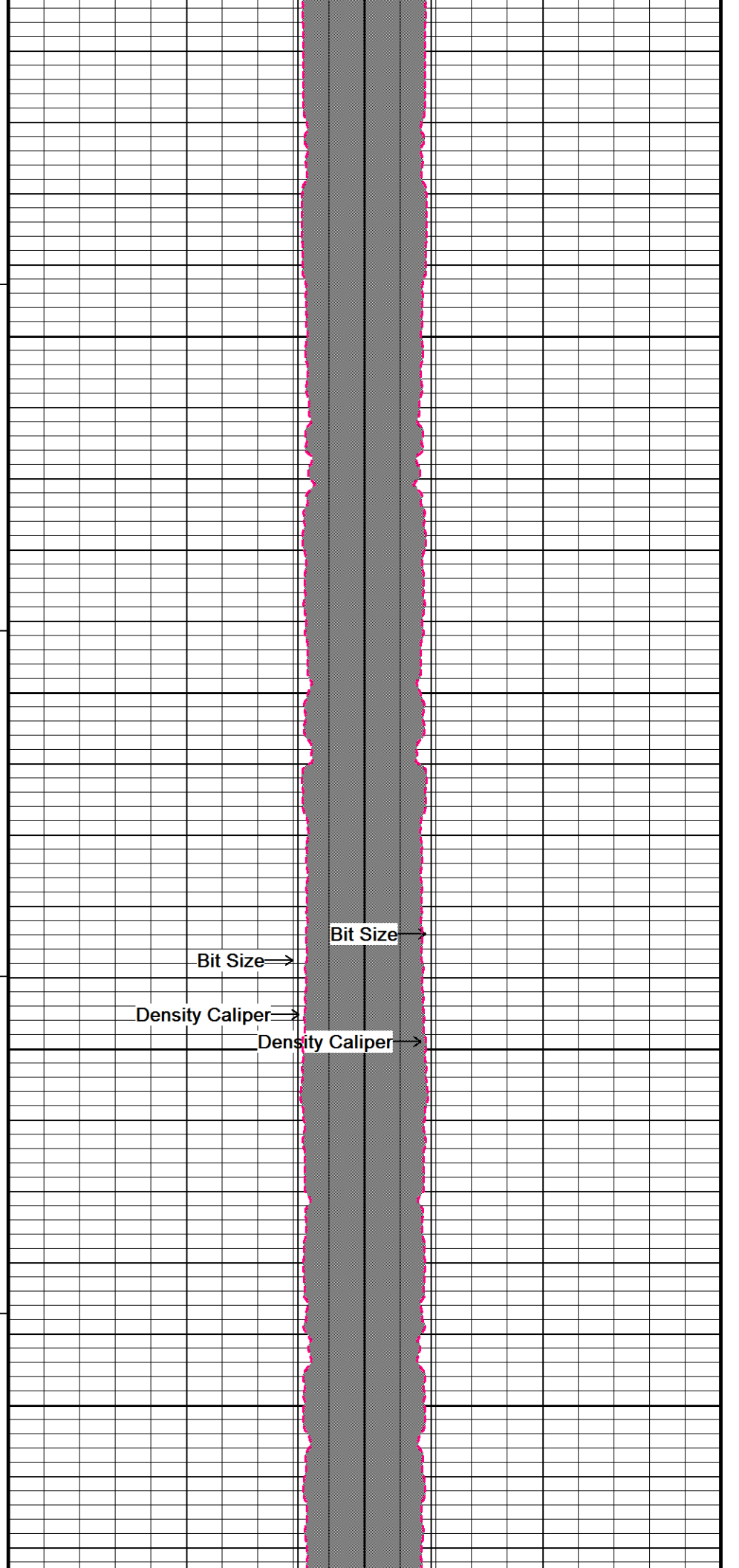
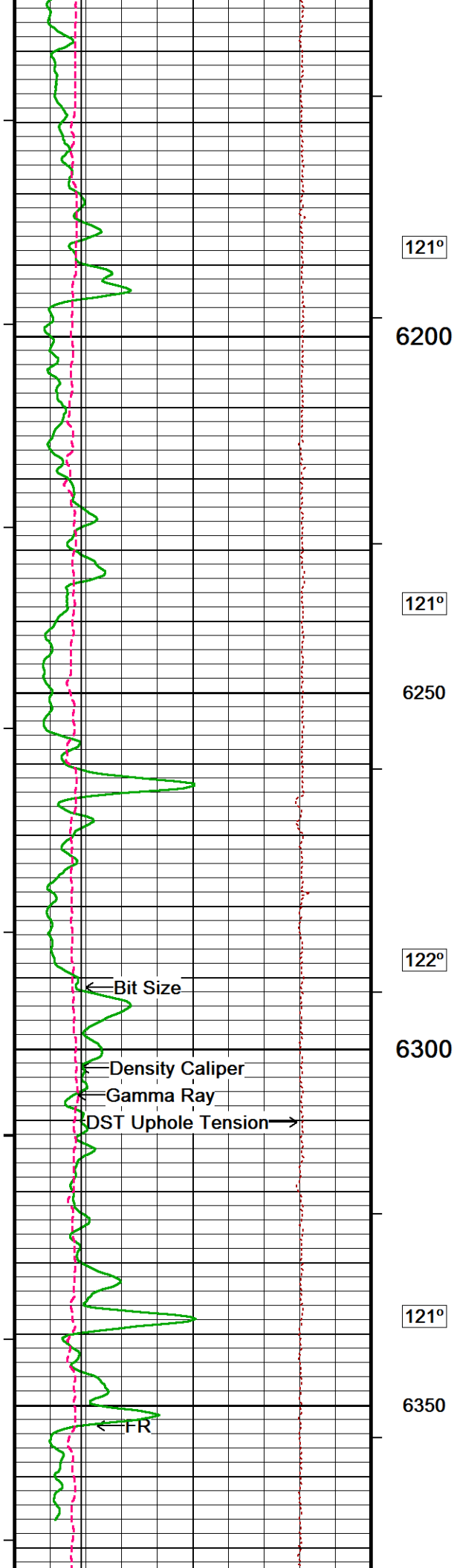












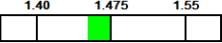
Water Level	0.000	feet
Borehole Fluid Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Crossplot 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 431

Field Calibration on 26-MAR-2018 21:46

	Measured	Calibrated (API)
Background	94	65
Calibrator (Gross)	756	521
Calibrator (Net)	662	456

Gamma Calibration Tolerances MCG-D.K 431

Ratio 1.451  Counts/API

The bar chart shows a scale from 1.40 to 1.55. The value 1.451 is marked with a green bar, indicating it is within the tolerance range.

Gamma Constants MCG-D.K 431

Last Edited on 27-MAR-2018,04:56

Gamma Calibrator Number	MCGGRCC141	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.12	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MCG-D.K 431

Field Calibration on 19-MAR-2018,14:27

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-D.K 431

Last Edited on 19-MAR-2018,14:27

Pre-filter Length 11

Caliper Calibration MPD-C.A 216

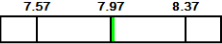
Base Calibration on 05-MAR-2018 14:30

Field Calibration on 26-MAR-2018 22:01

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	13952	3.99
2	22624	5.98
3	31328	7.97
4	39616	9.86
5	48944	11.92
6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	7.99	7.97

Caliper Calibration Tolerances MPD-C.A 216

Long Arm Field Cal. 7.99  in

The bar chart shows a scale from 7.57 to 8.37. The value 7.99 is marked with a green bar, indicating it is within the tolerance range.

DOWNHOLE EQUIPMENT

C:\Minimus 17.05.6573\Logs\McCoy Petroleum Mack 'A' #1-1\McCoy Petroleum Mack 'A' #1-1_001.dta

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

Compact Swivel Head Adaptor
SHA-F 48 LG: 2.74 ft WT: 26.5 lb OD: 2.244 in

Compact Comms Gamma
MCG-D.K 431 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-log
MML-A 2 LG: 7.97 ft WT: 81.6 lb OD: 2.244 in

Compact Neutron
MDN-B.A 292 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

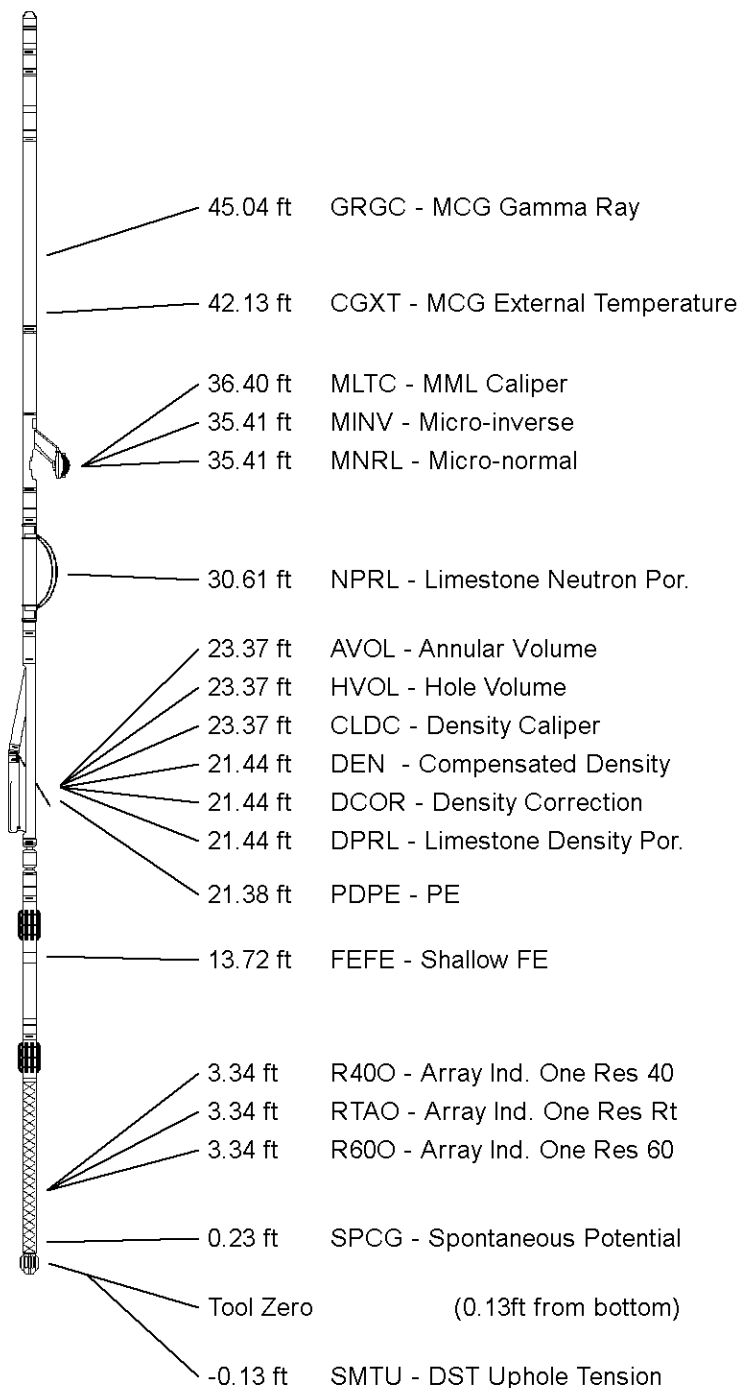
Compact Density/Caliper
MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.913 in

Compact Knuckle Joint
SKJ-E.B 732 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Focussed Electric
MFE-A.A 135 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction
MAI-A.A 111 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 55.46 ft Weight: 458.6 lb



All measurements relative to tool zero.

COMPANY	McCOY PETROLEUM CORPORATION
WELL	MACK 'A' #1-1
FIELD	WILDCAT
PROVINCE/COUNTY	GRAY
COUNTRY/STATE	U.S.A / KANSAS

Elevation Kelly Bushing	2767	feet	First Reading	6377.00	feet
Elevation Drill Floor	2765	feet	Depth Driller	6400.00	feet
Elevation Ground Level	2754	feet	Depth Logger	6398.00	feet



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CALIPER LOG

