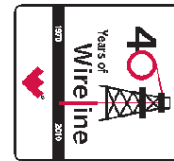




Weatherford

**HOLE VOLUME
CALIPER LOG**

COMPANY **BILL BARRETT CORPORATION**
 WELL **KAUFMAN 24C-24-692**
 FIELD **MAMM CREEK**
 PROVINCE/COUNTY **GARFIELD**
 COUNTRY/STATE **U.S.A. / COLORADO**
 LOCATION **SHL: 1763' FSL & 2408' FEL**
BHL: 816' FSL & 1970' FWL



SEC **24** TWP **6S** RGE **92W** Other Services
 API Number **05-045-19650** MPD/MDN
 Permit Number **MA/MFE**

Permanent Datum G.L., Elevation 5843 feet
 Log Measured From **KB**
 Drilling Measured From **K.B. @ 23 FEET**

Date **23-AUG-2011**

Elevations: feet
 KB 5866.00
 DF 5866.00
 GL 5843.00

Run Number	ONE	
Depth Driller	7720.00	feet
Depth Logger	7720.00	feet
First Reading	7697.00	
Last Reading	858.00	
Casing Driller	850.00	feet
Casing Logger	858.00	feet
Bit Size	7.875	inches
Hole Fluid Type	LSND	
Density / Viscosity	10.50 lb/USg	59.00 CP
PH / Fluid Loss	9.50	8.00 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	2.0 @ 75.0	ohm-m
Rmf @ Measured Temp	1.60 @ 75.0	ohm-m
Rmc @ Measured Temp	2.40 @ 75.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.83 @186.0	ohm-m
Time Since Circulation	5 HOURS	
Max Recorded Temp	186.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13173	GD JCT
Recorded By	O. GOYZUETA	
Witnessed By	C. CROWTON	
Service Order	3531754	

BOREHOLE RECORD

Last Edited: 24-AUG-2011 06:18

Bit Size inches	Depth From feet	Depth To feet
8.750	858.00	5301.00
7.875	5301.00	7720.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	858.00	36.00

REMARKS

TOOLS: MCG, MDN, MPD, SKJ, MFE AND MAI RAN IN COMBINATION.

HARDWARE: MPD: 8 INCH PROFILE PLATE.
 MAI: TWO 0.5 INCH STANDOFFS.
 MDN: DUAL BOWSPRING.

2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TIGHT PULLS, BOREHOLE SIZE, AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.

SP RESPONSE BELOW 7400 FEET WARRANTED INVESTIGATION. DISCOVERED RIG HANDS SPRAYING WATER NEAR SURFACE ELECTRODE. RESPONSE AT 7250 FEET REQUIRED ANOTHER INVESTIGATION. SURFACE ELECTRODE WAS FOUND TO BE KNOCKED OVER.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.85" (9 5/8", 36 LB/FT CASING).

8.75 INCH BIT CHANGE AT 5301 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2990 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2230 CU.FT.

ENGINEER(S): O. GOYZUETA, C. ROGERS (JFE)

OPERATOR(S): K. BOBLITT

SERVICE ORDER: # 3531754

RIG: PATTERSON 307

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

5 INCH MAIN LOG

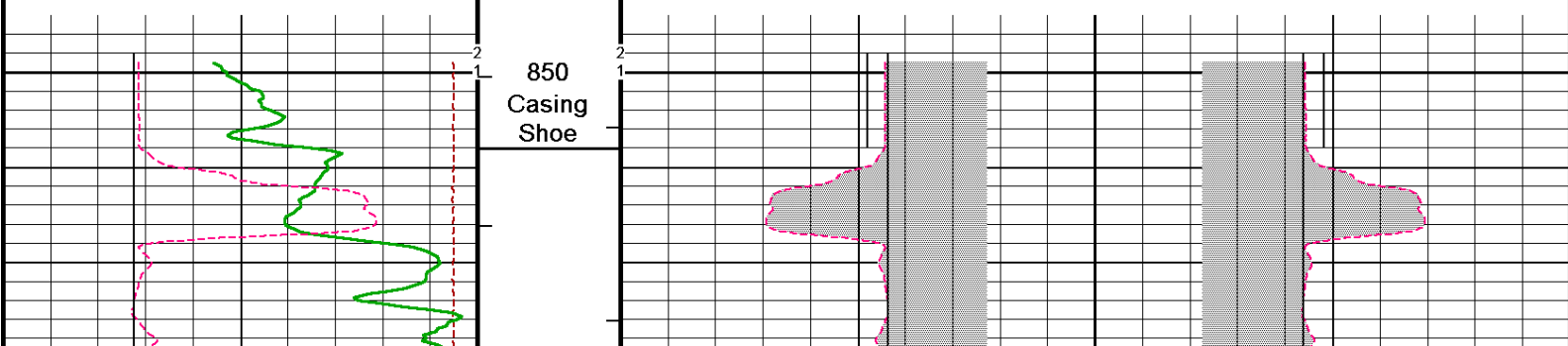
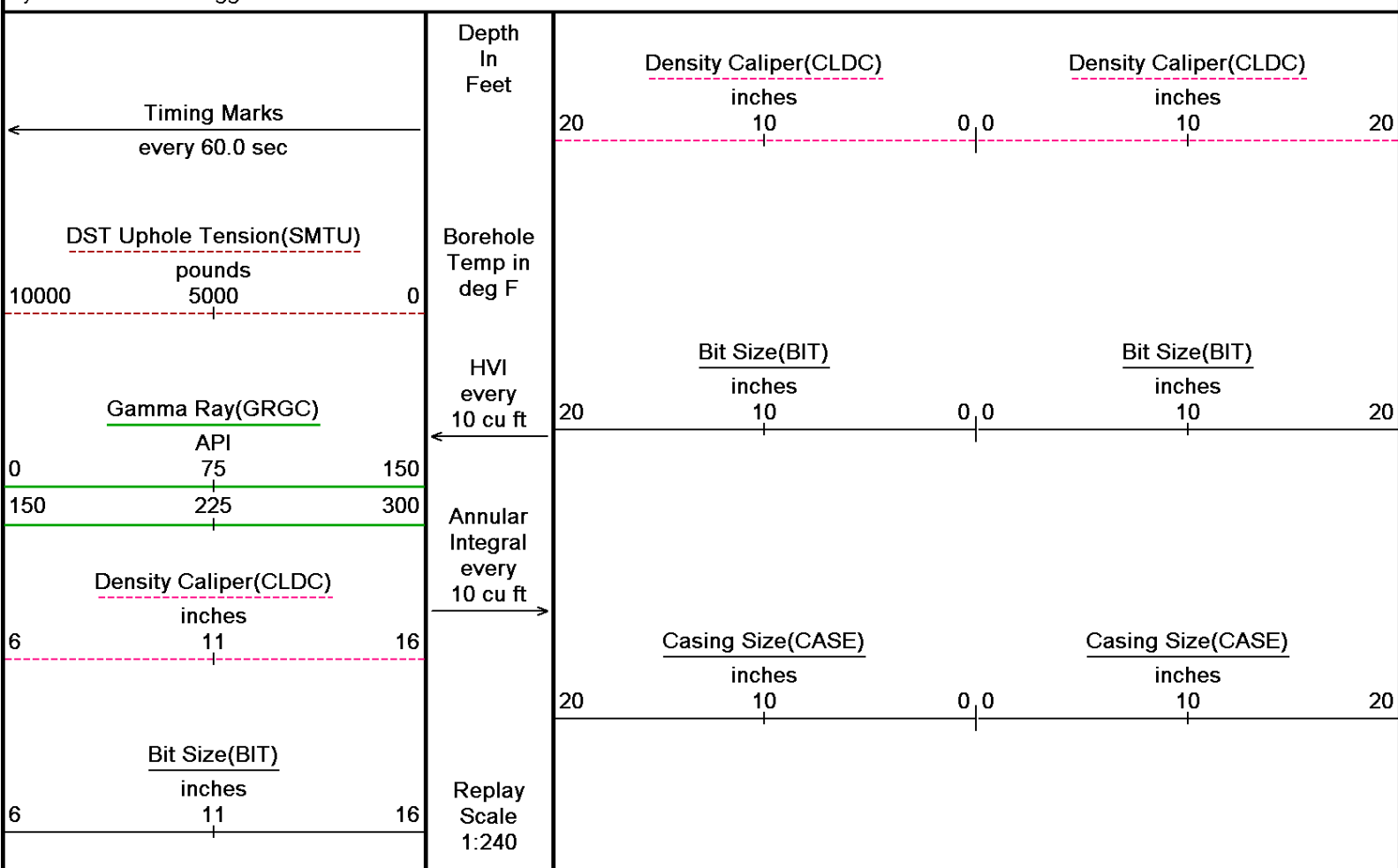
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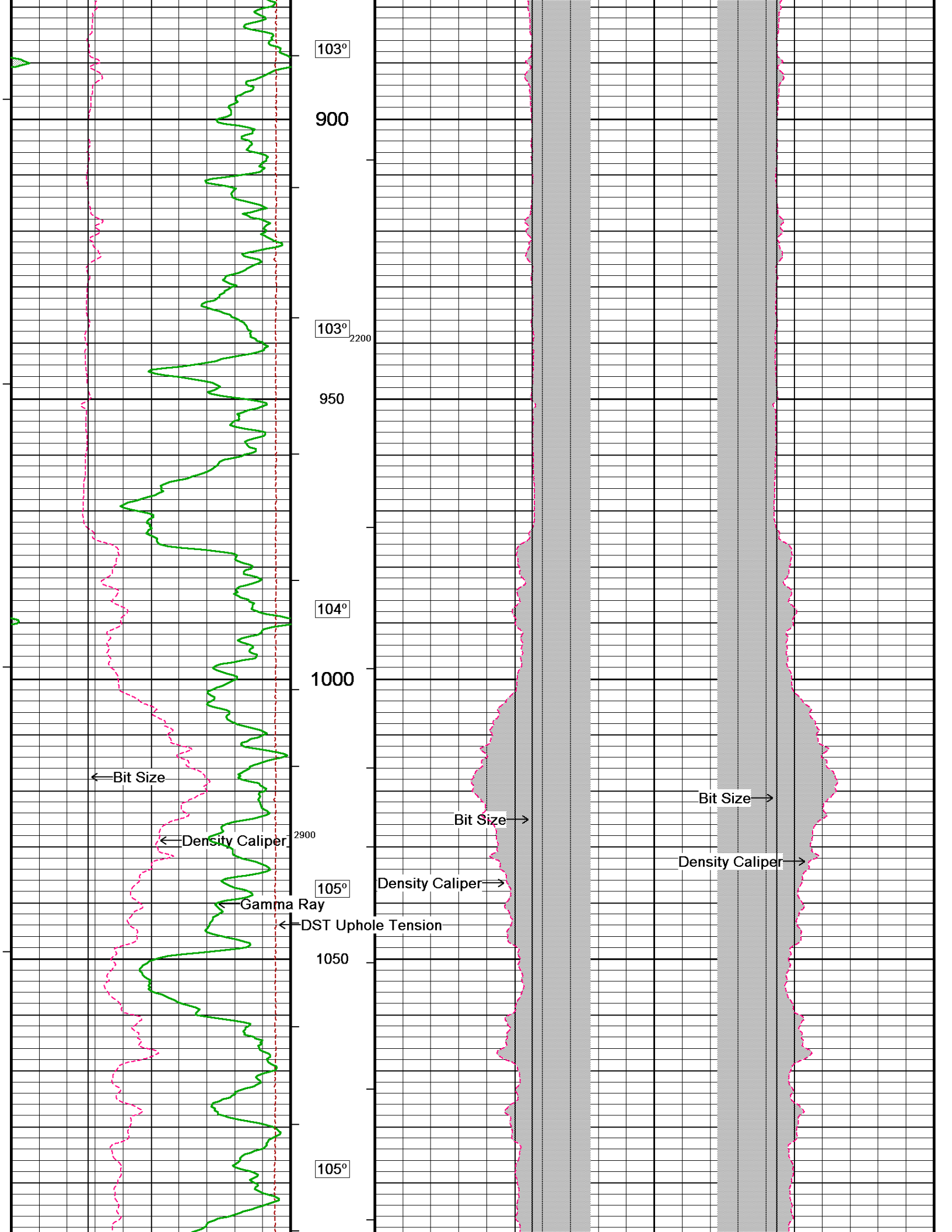
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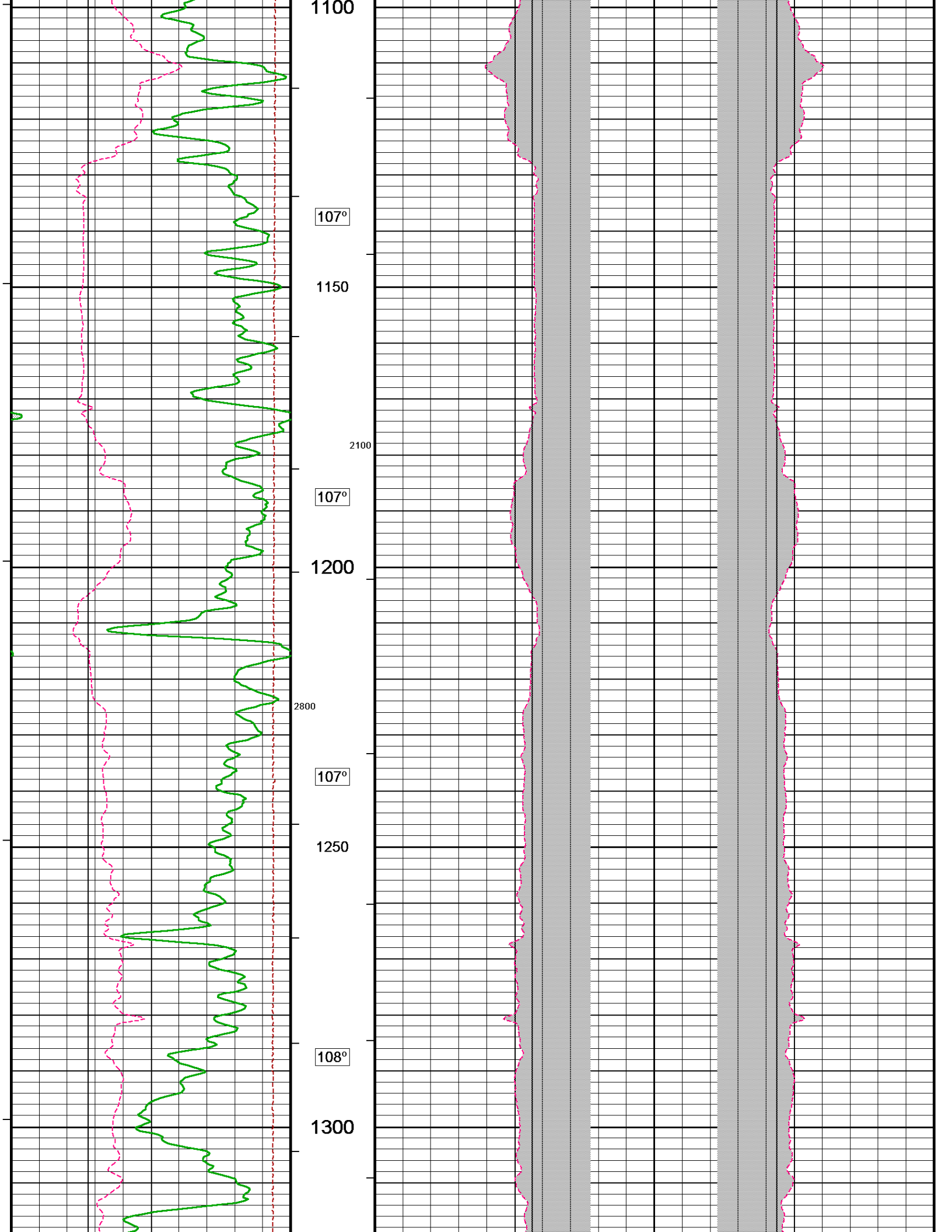
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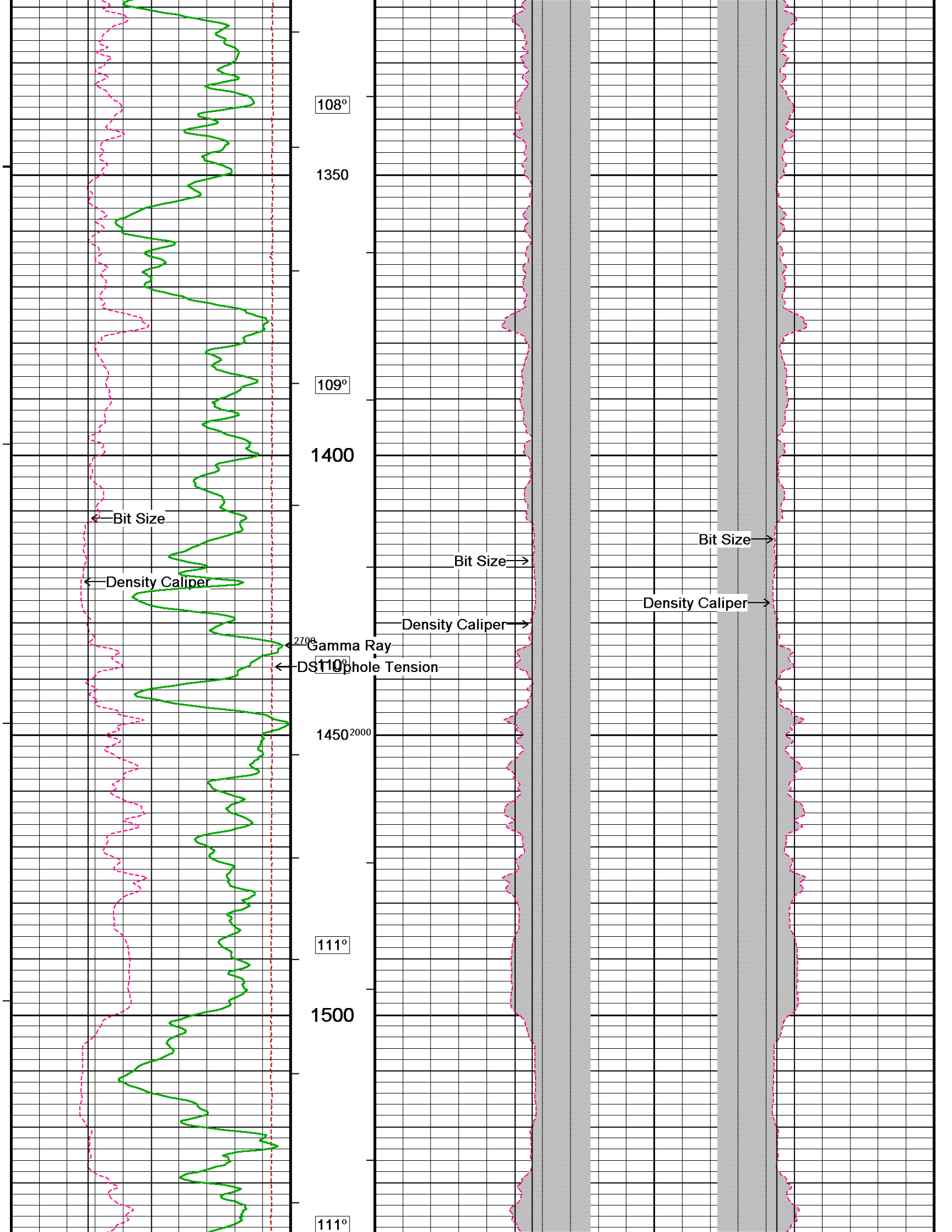
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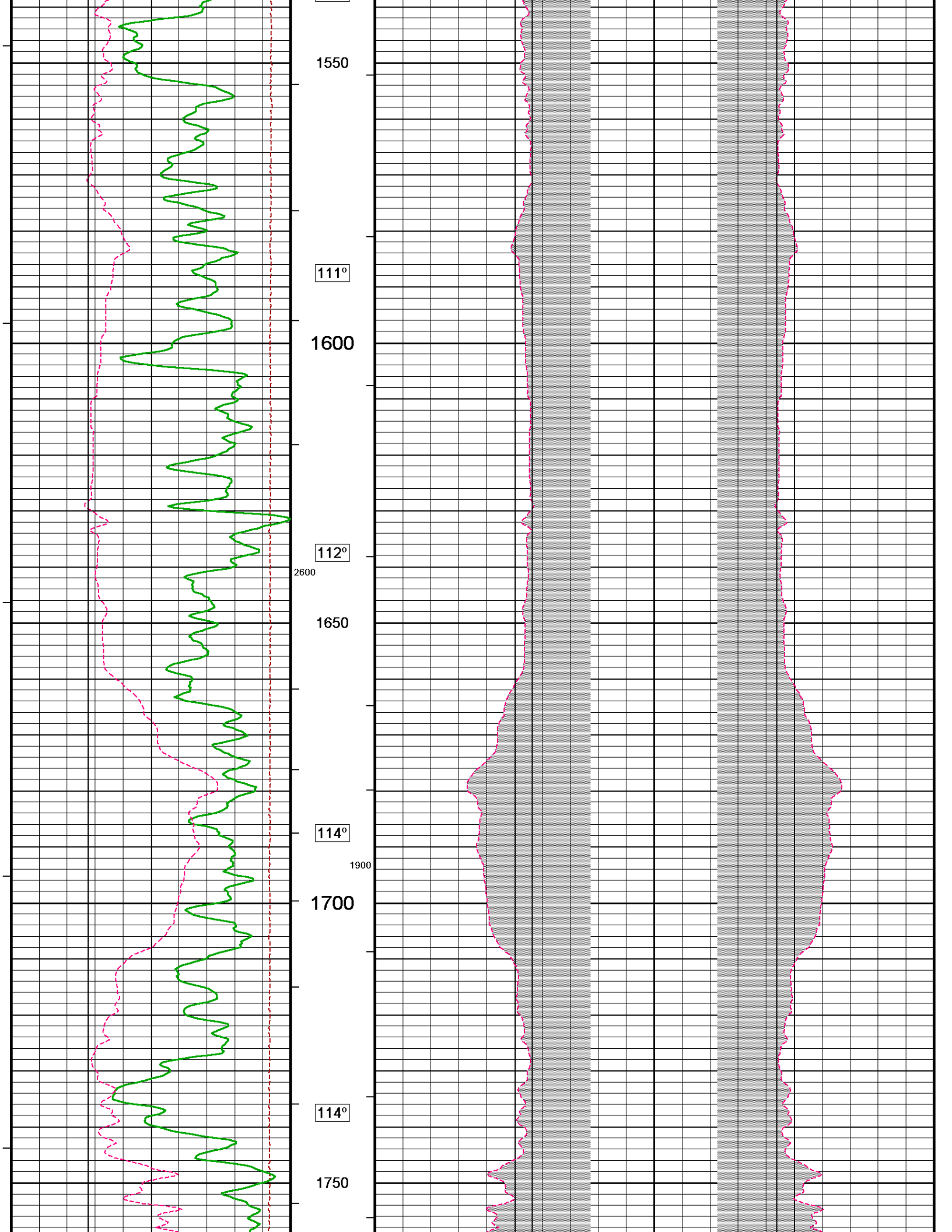
System Versions: Logged with 12.02.4401 Plotted with 12.02.4401

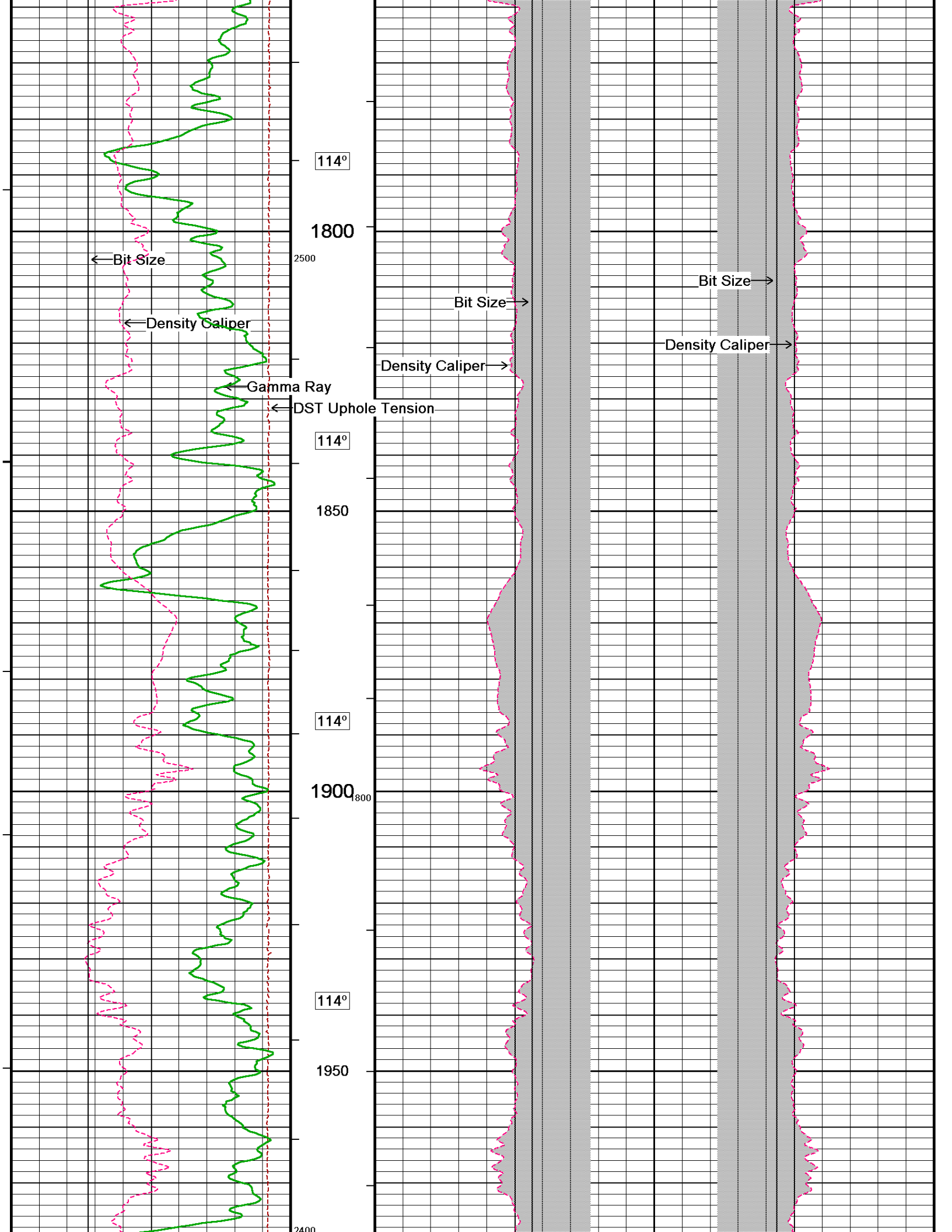


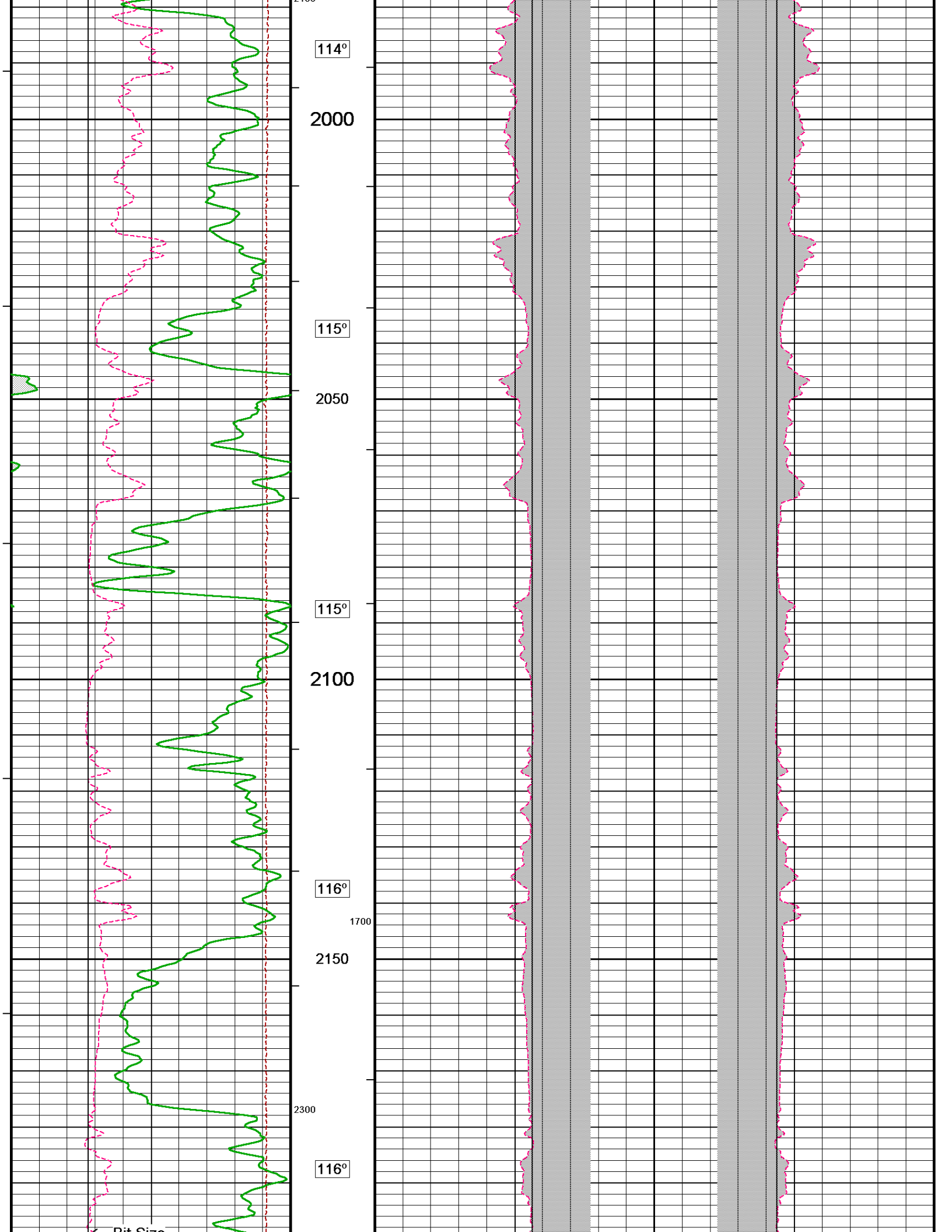


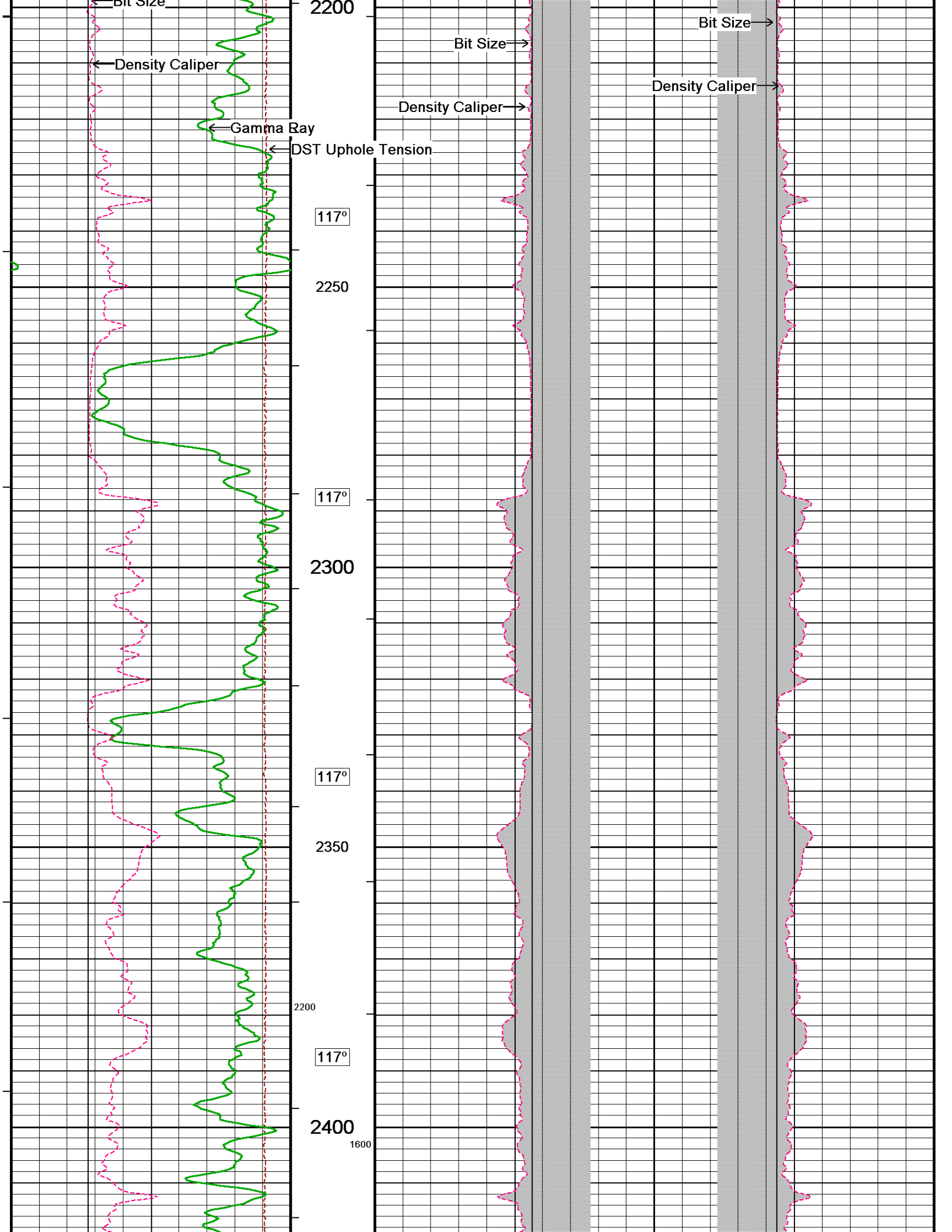


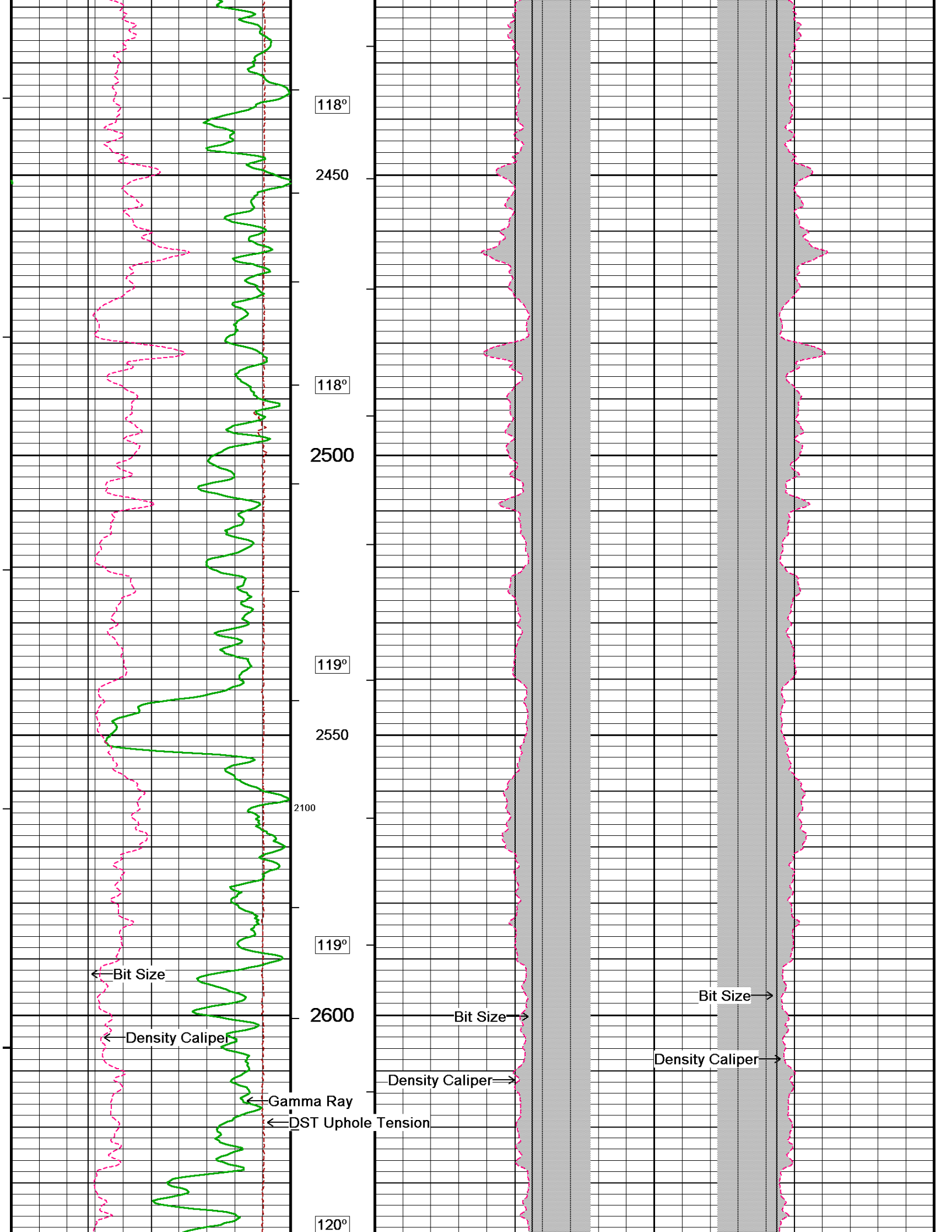


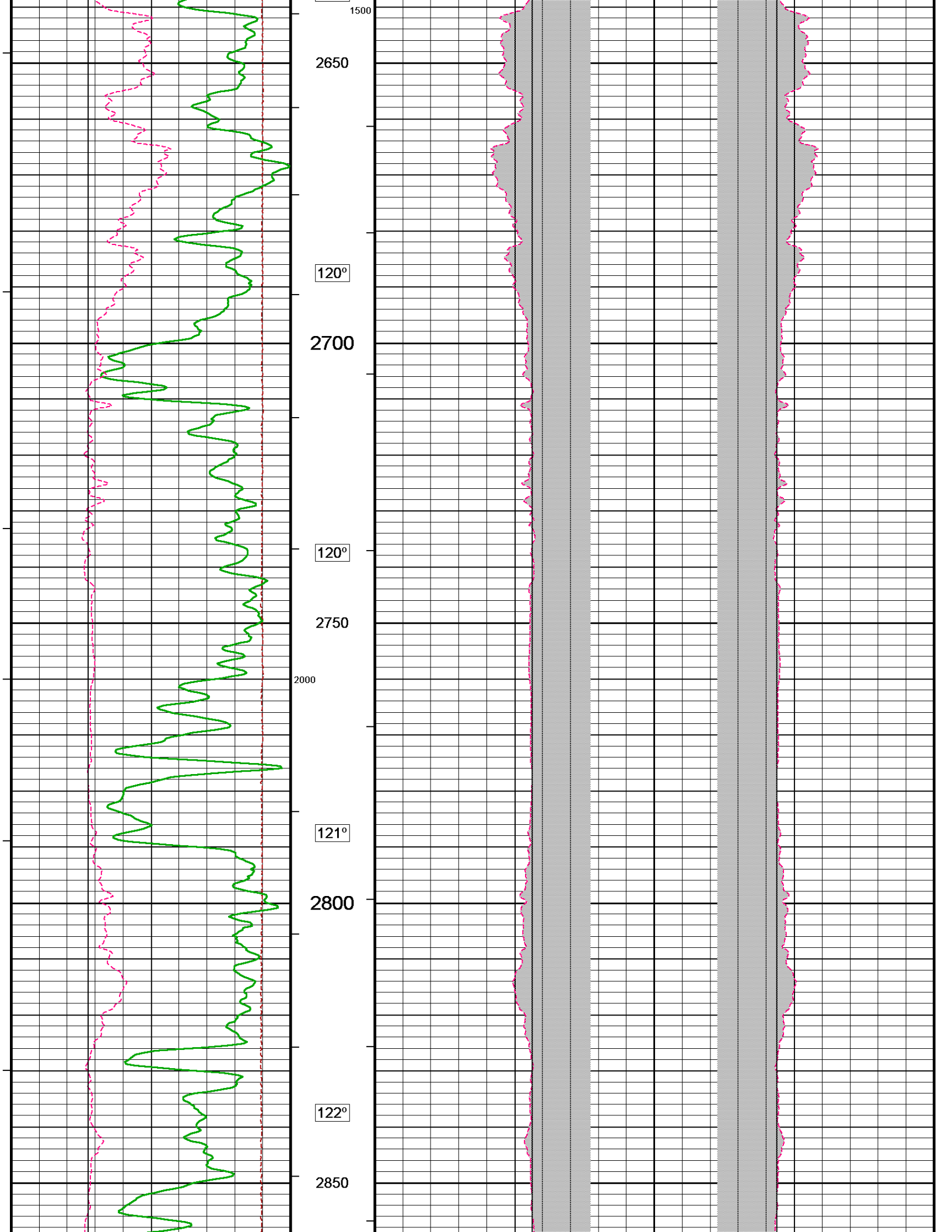


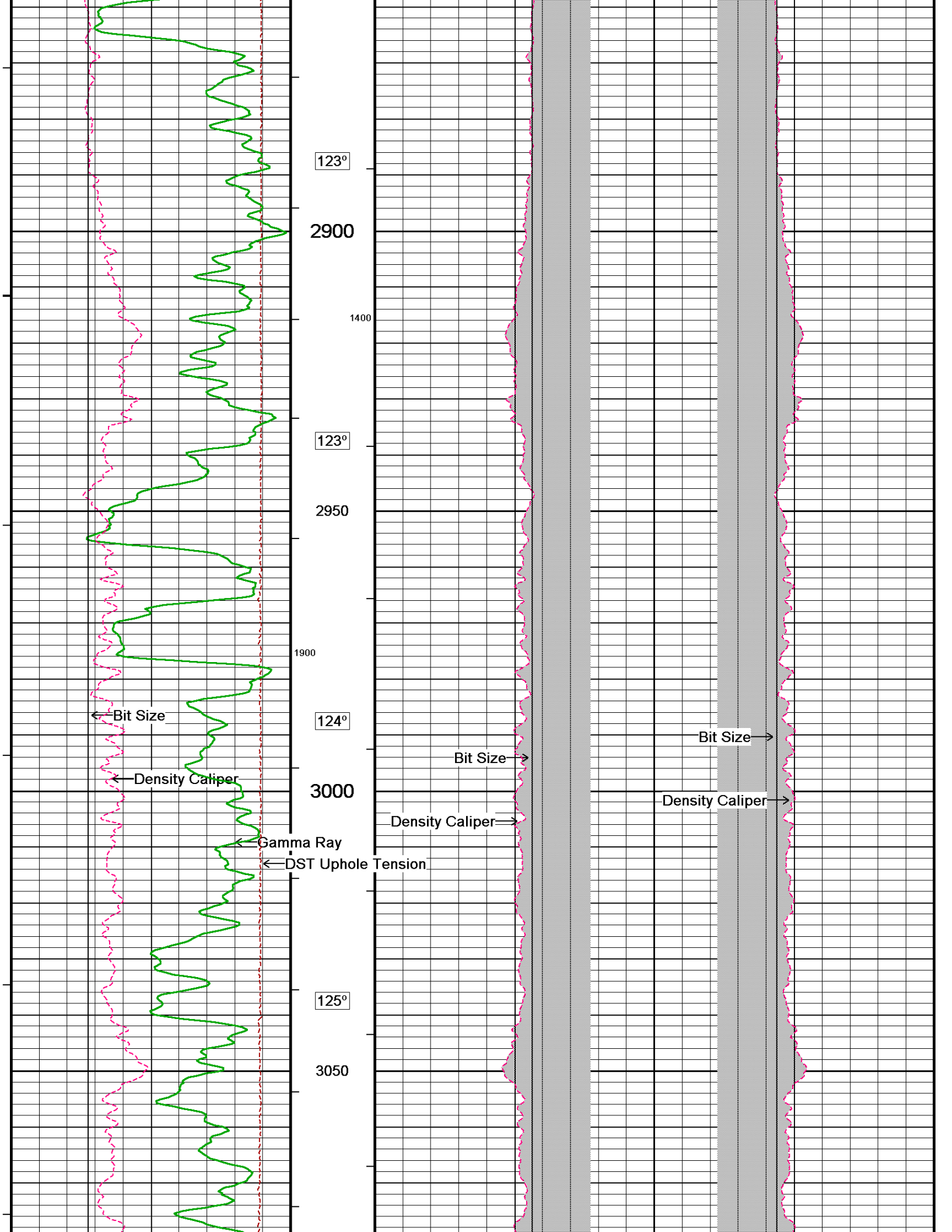


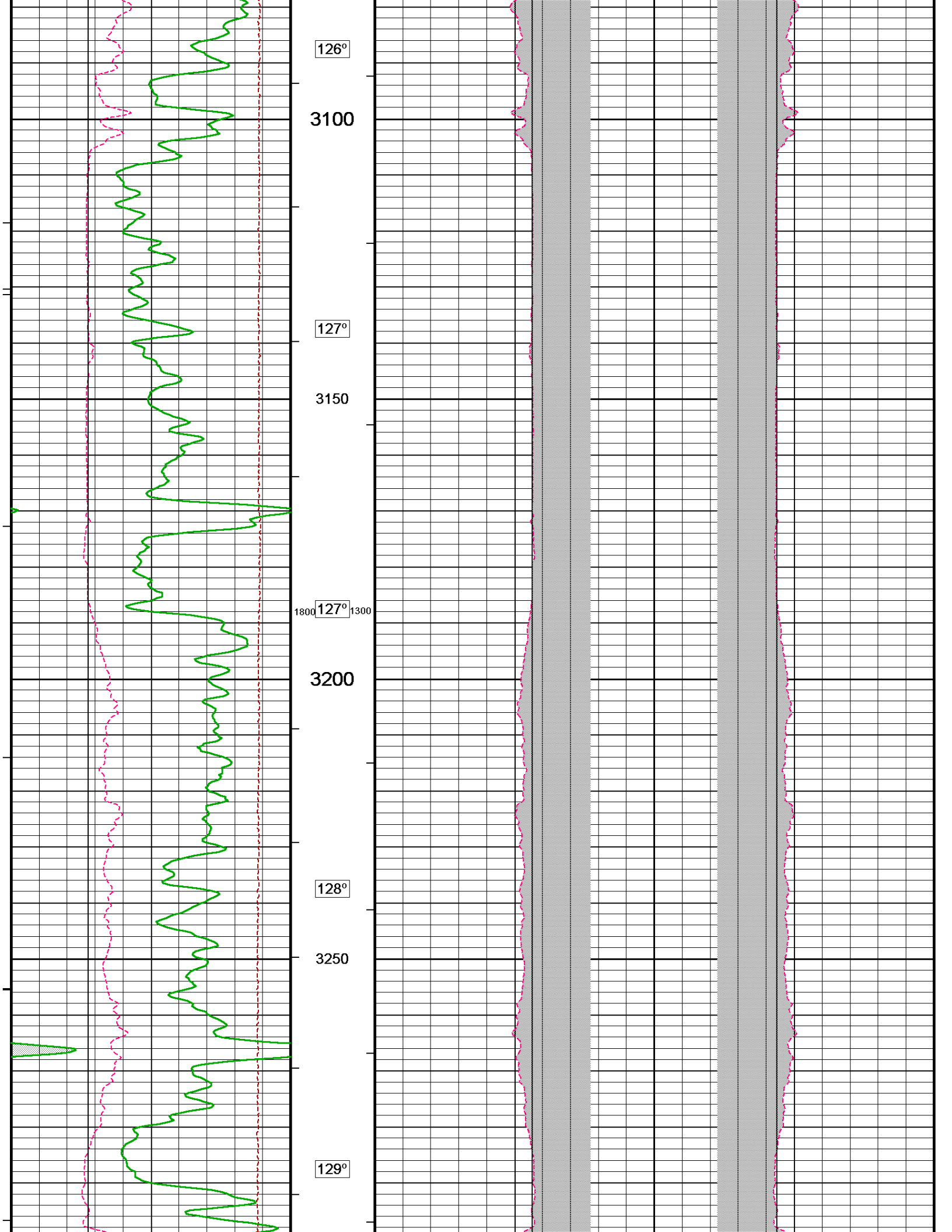


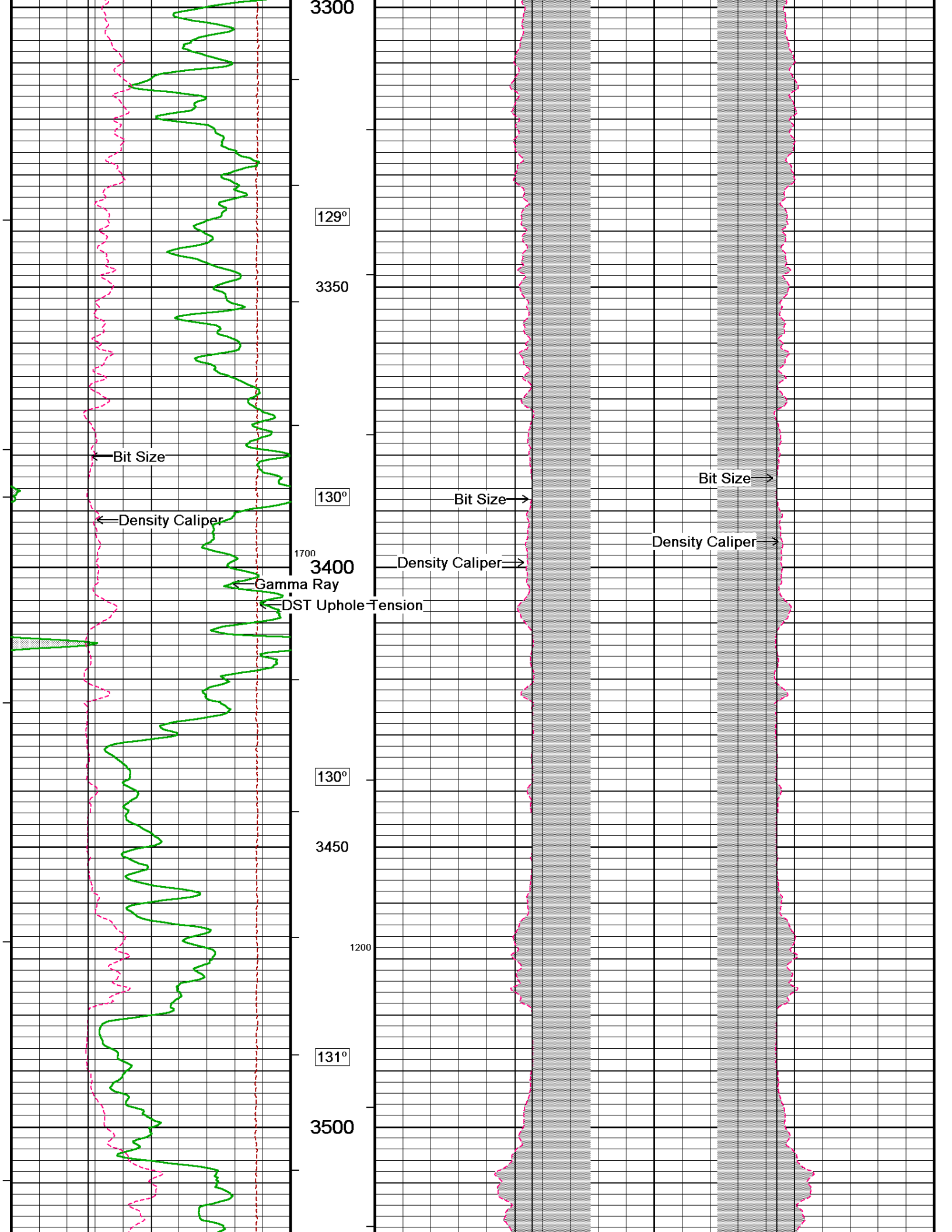


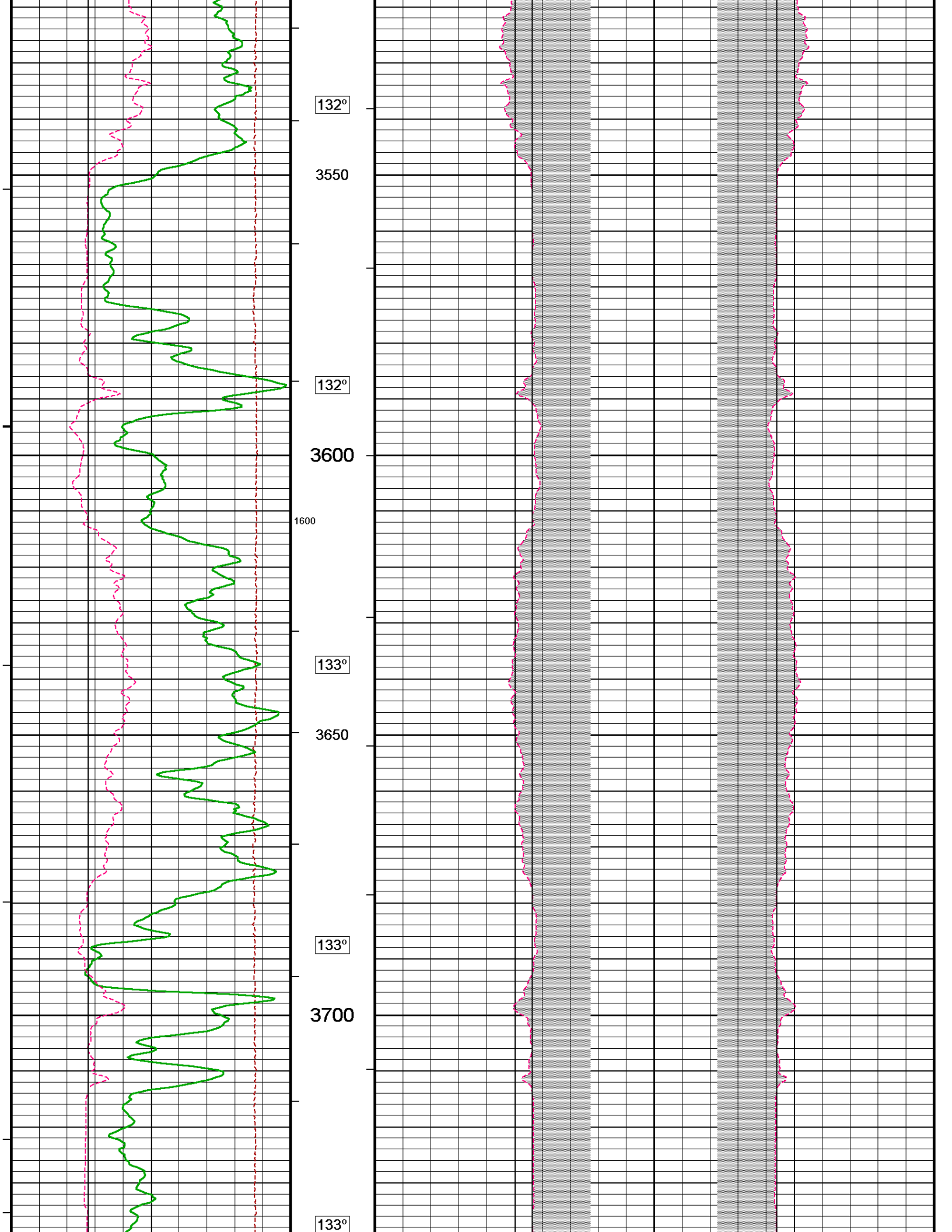


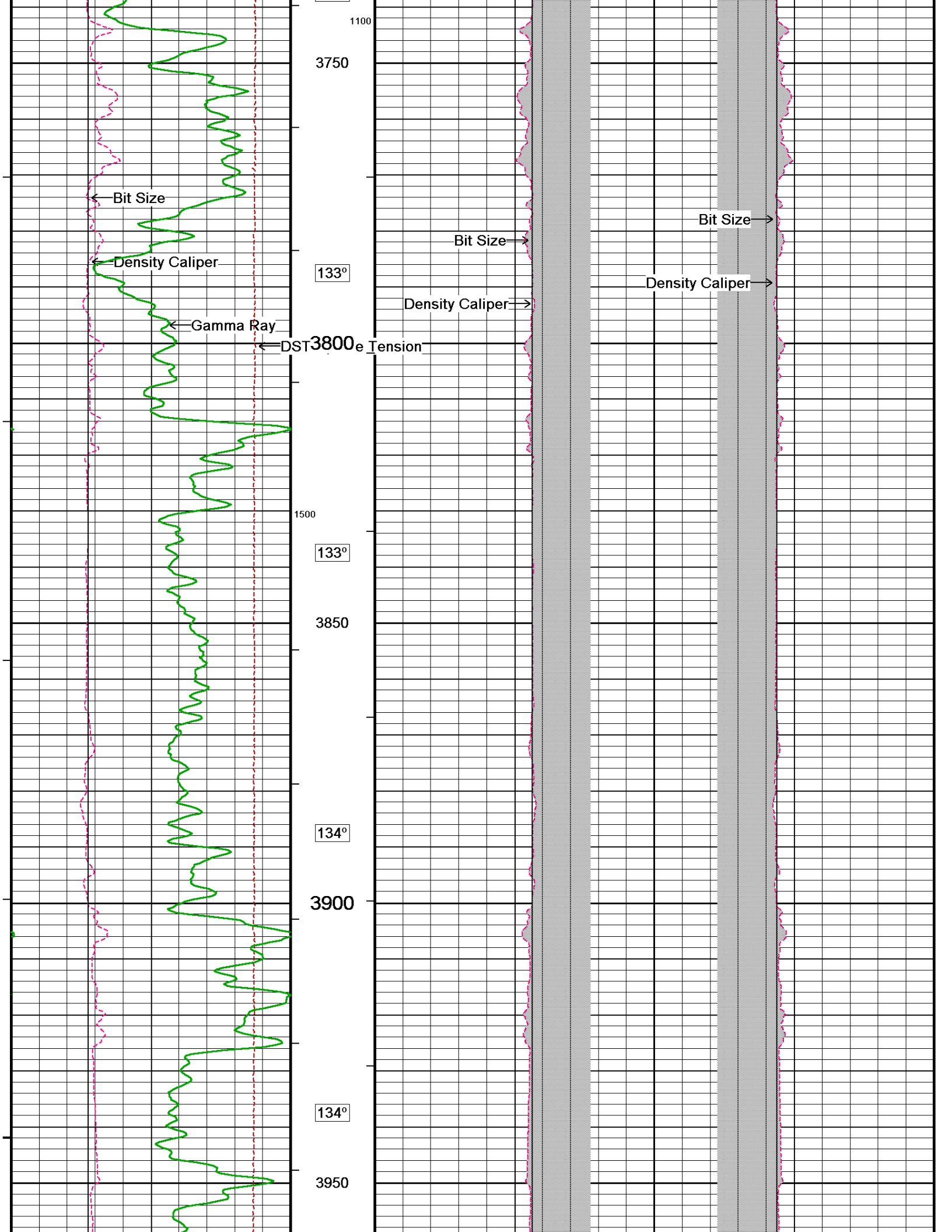


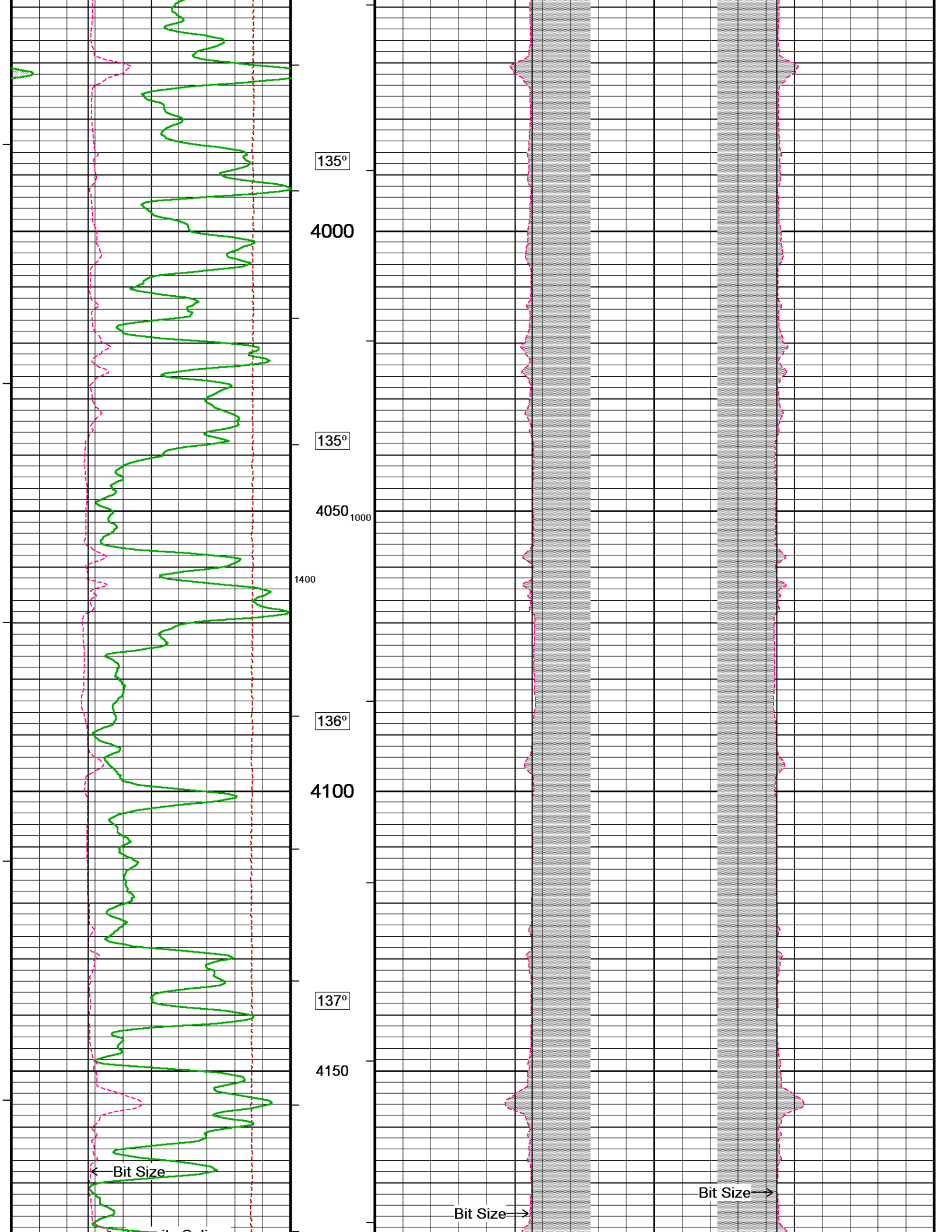


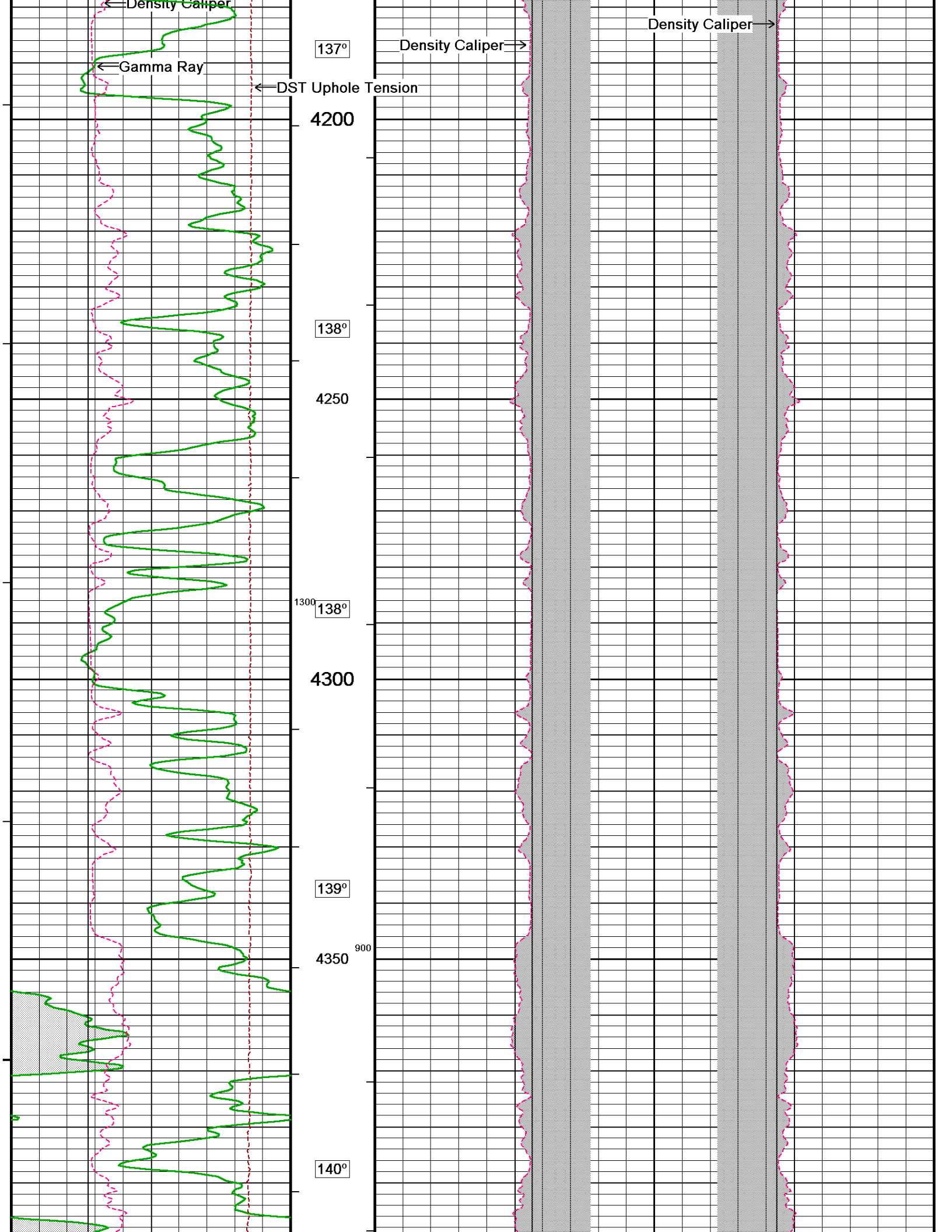


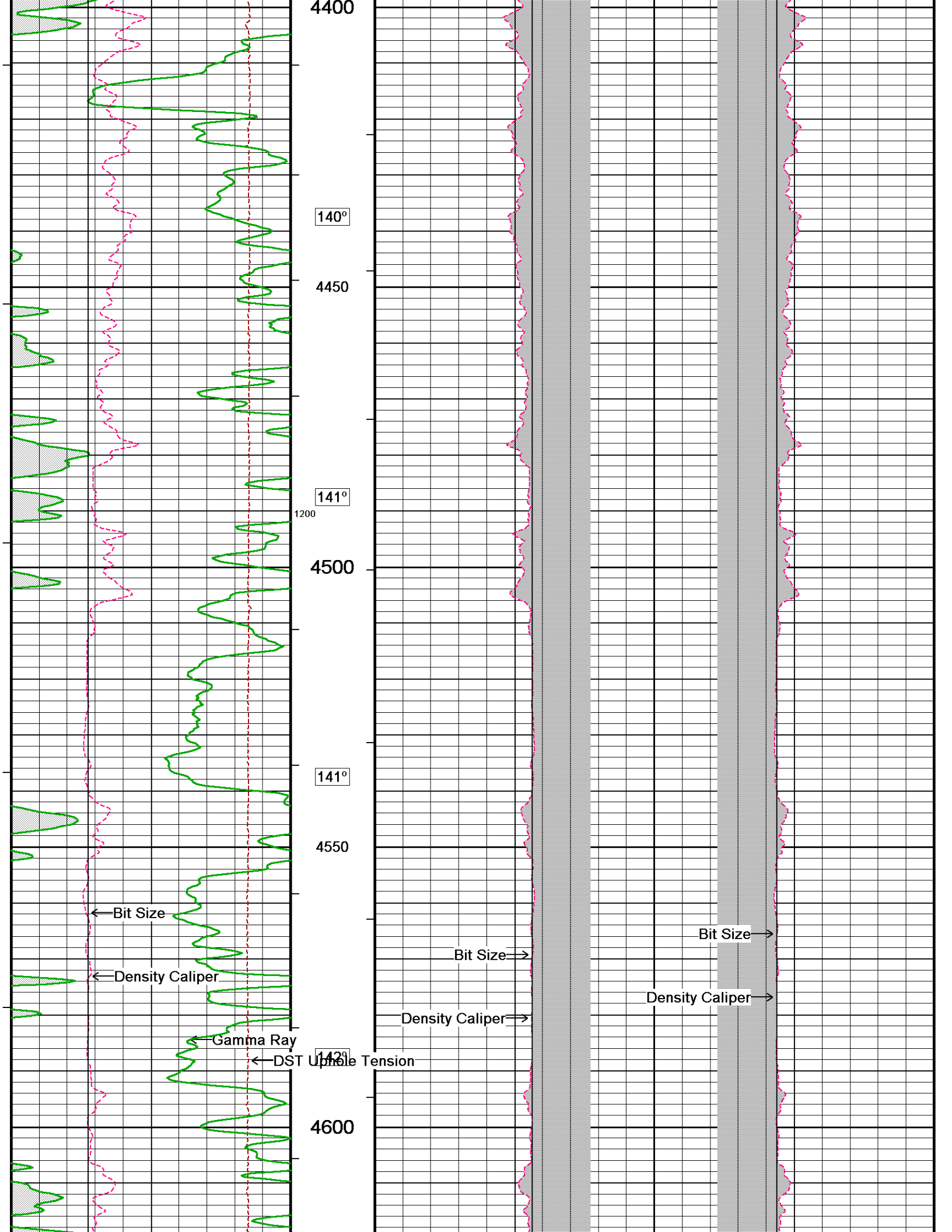


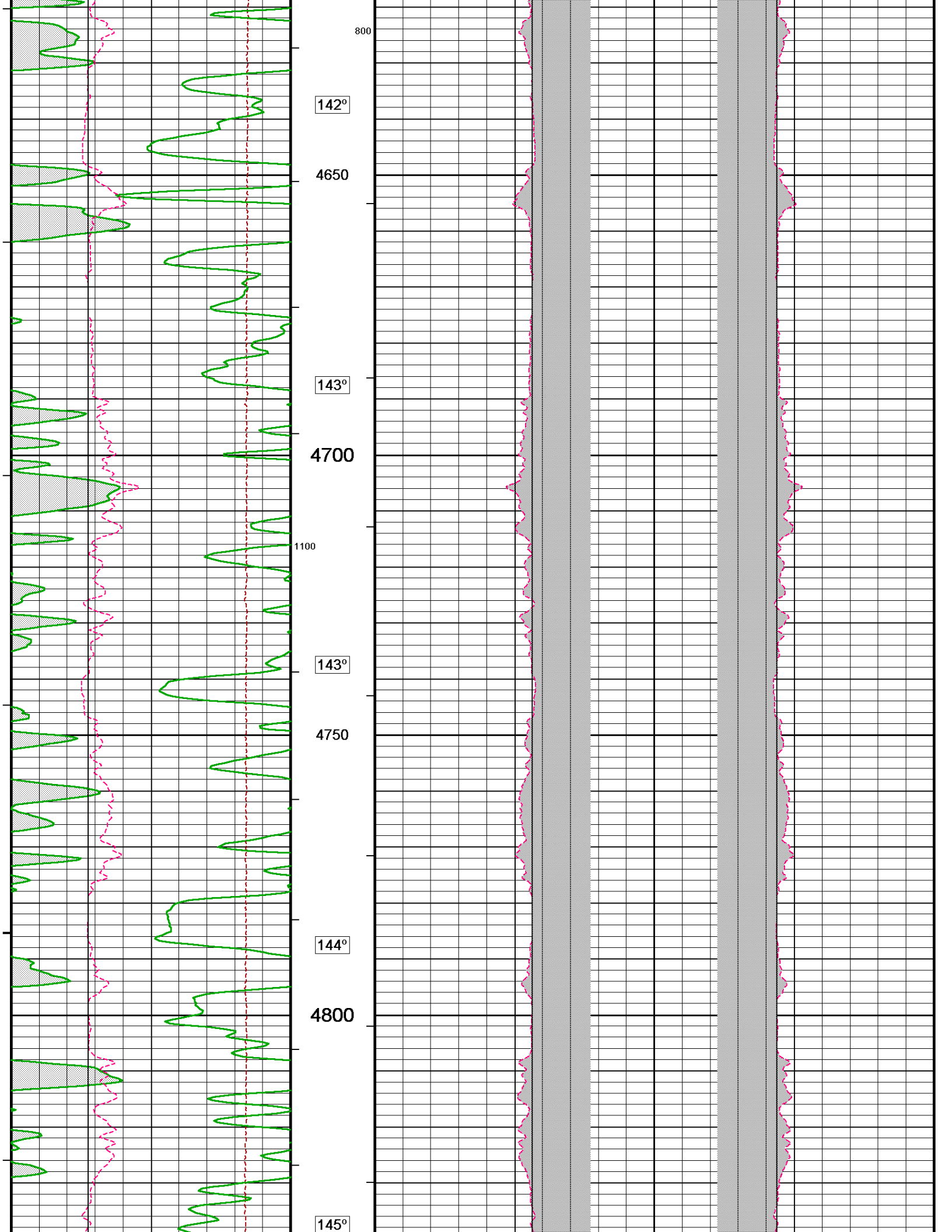


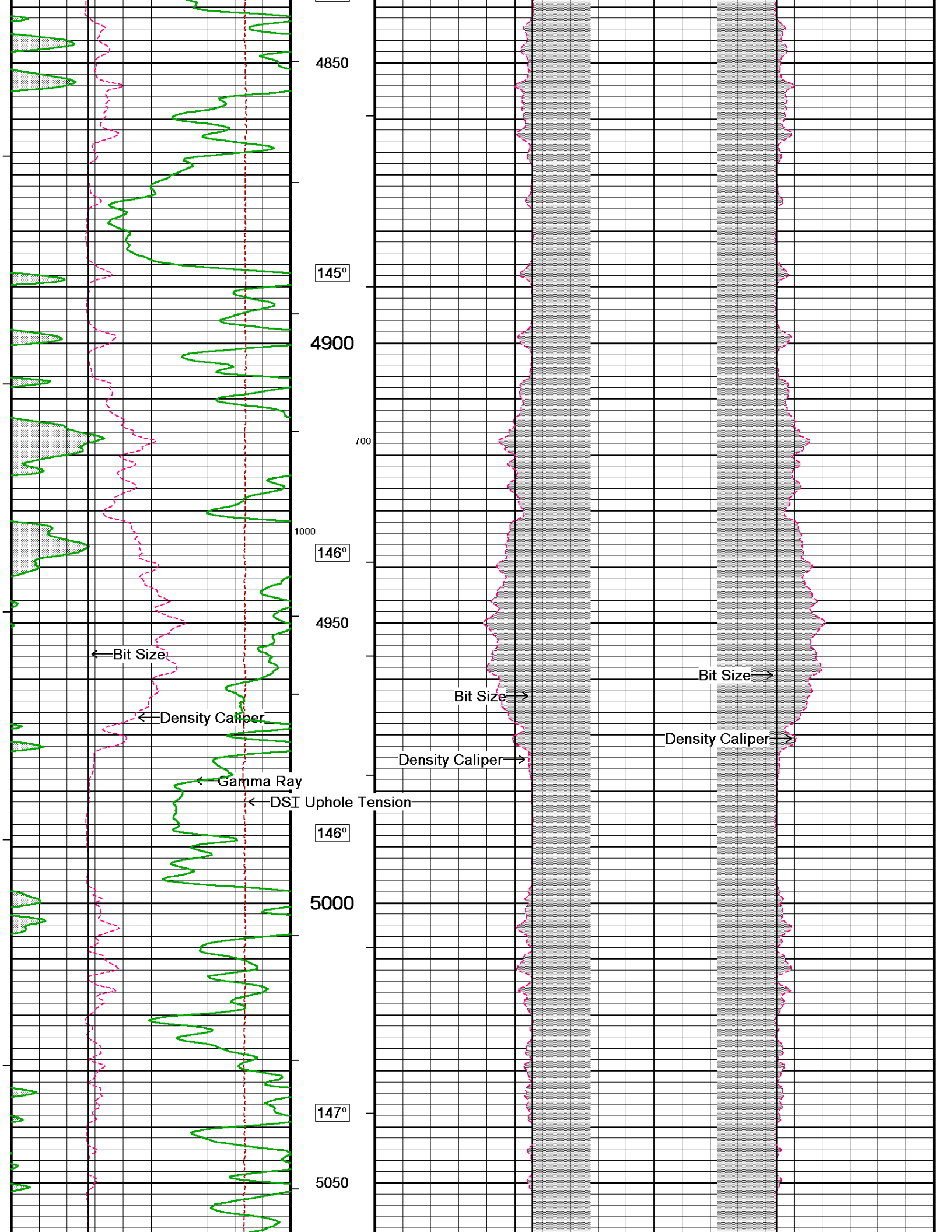


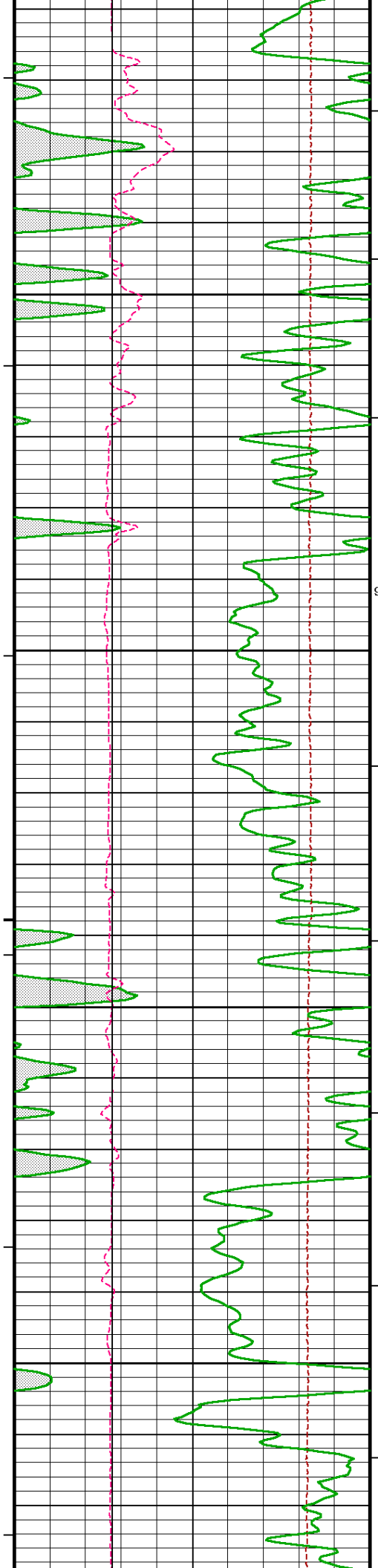












147°

5100

148°

5150

148°

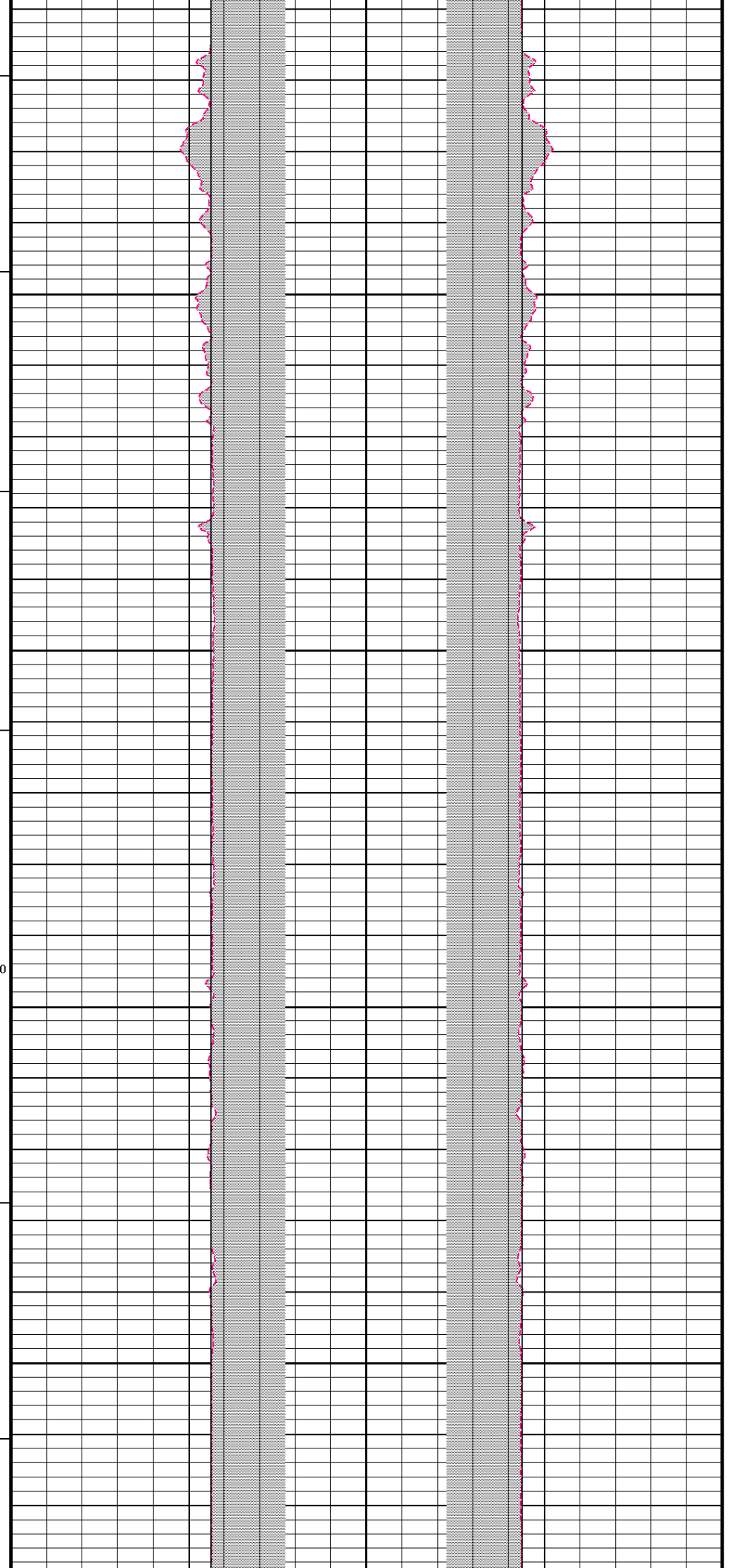
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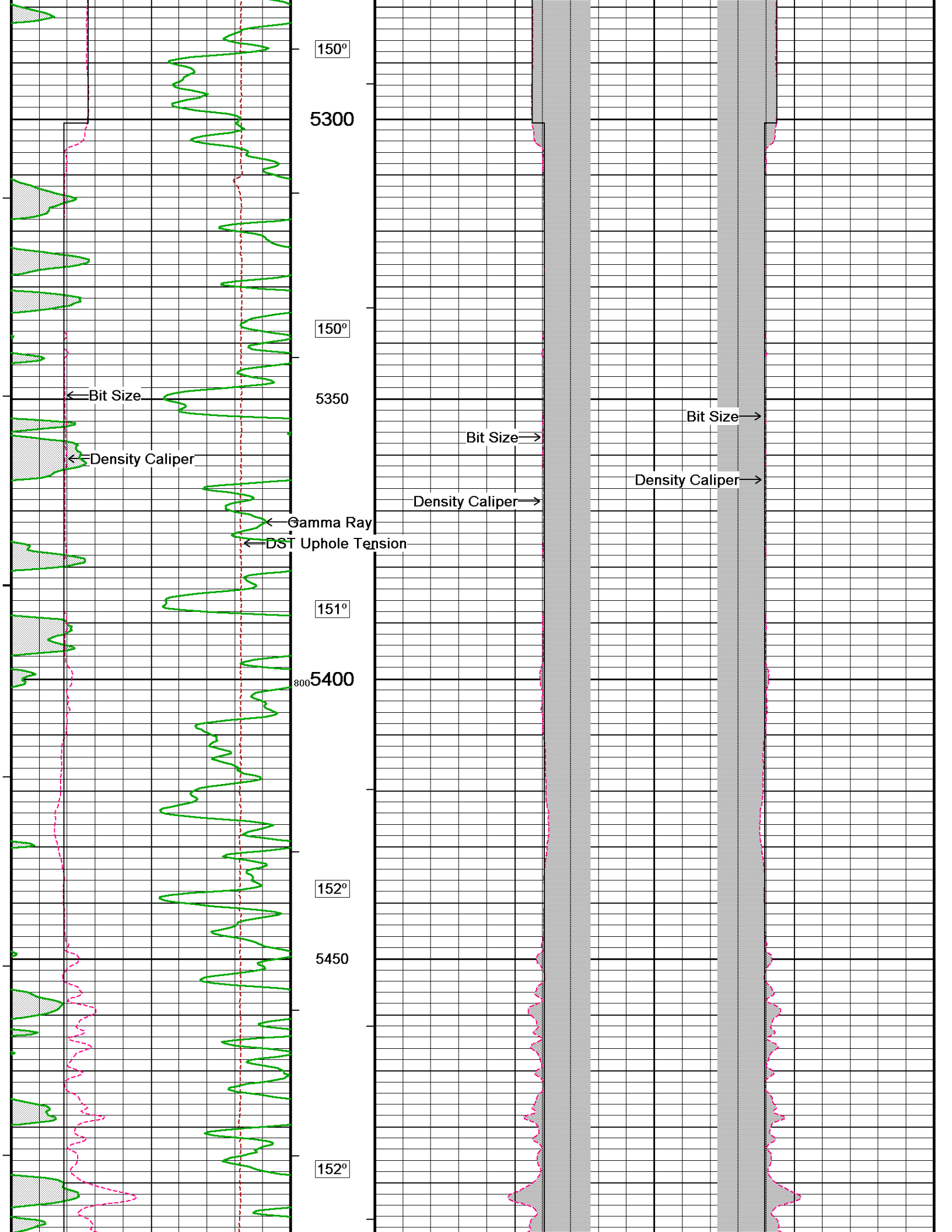
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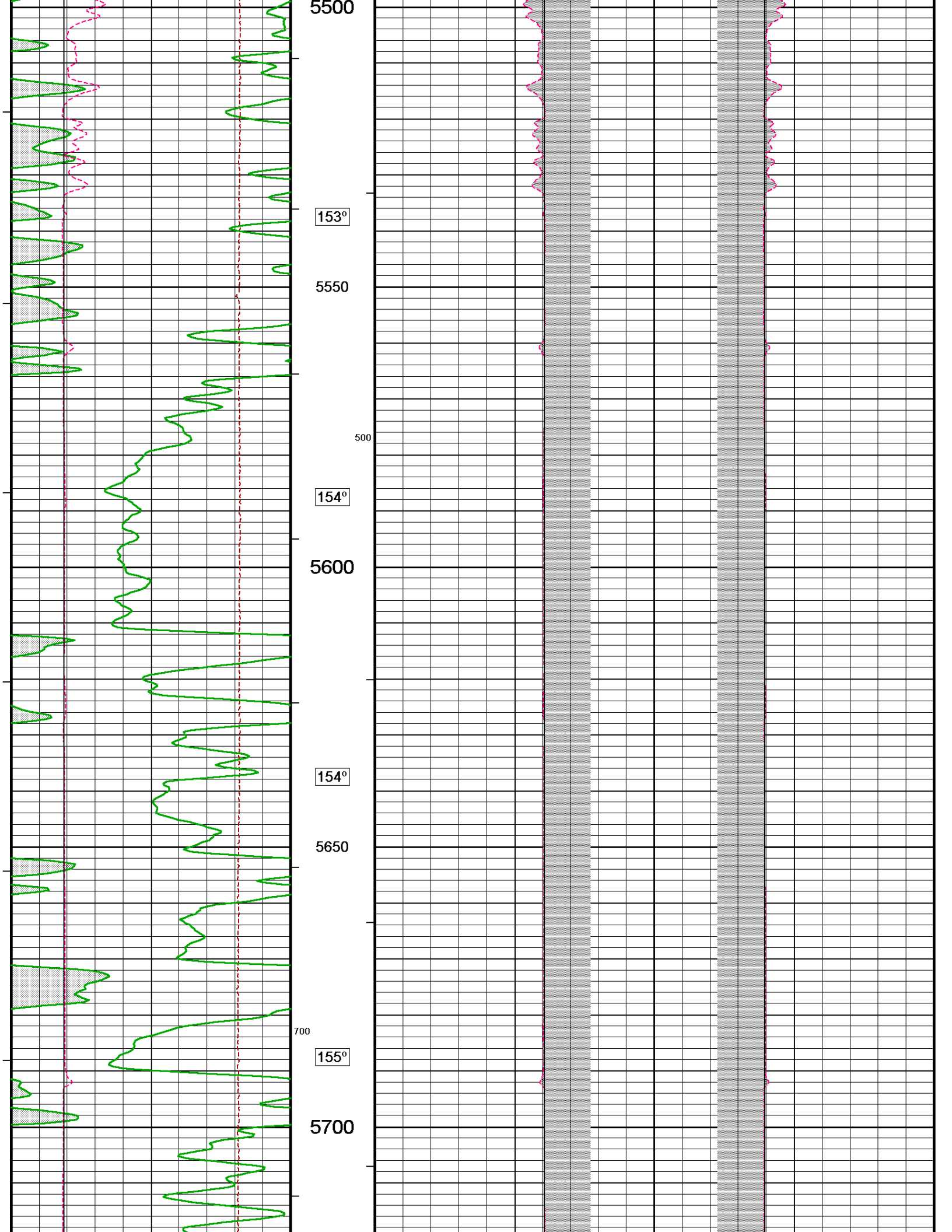
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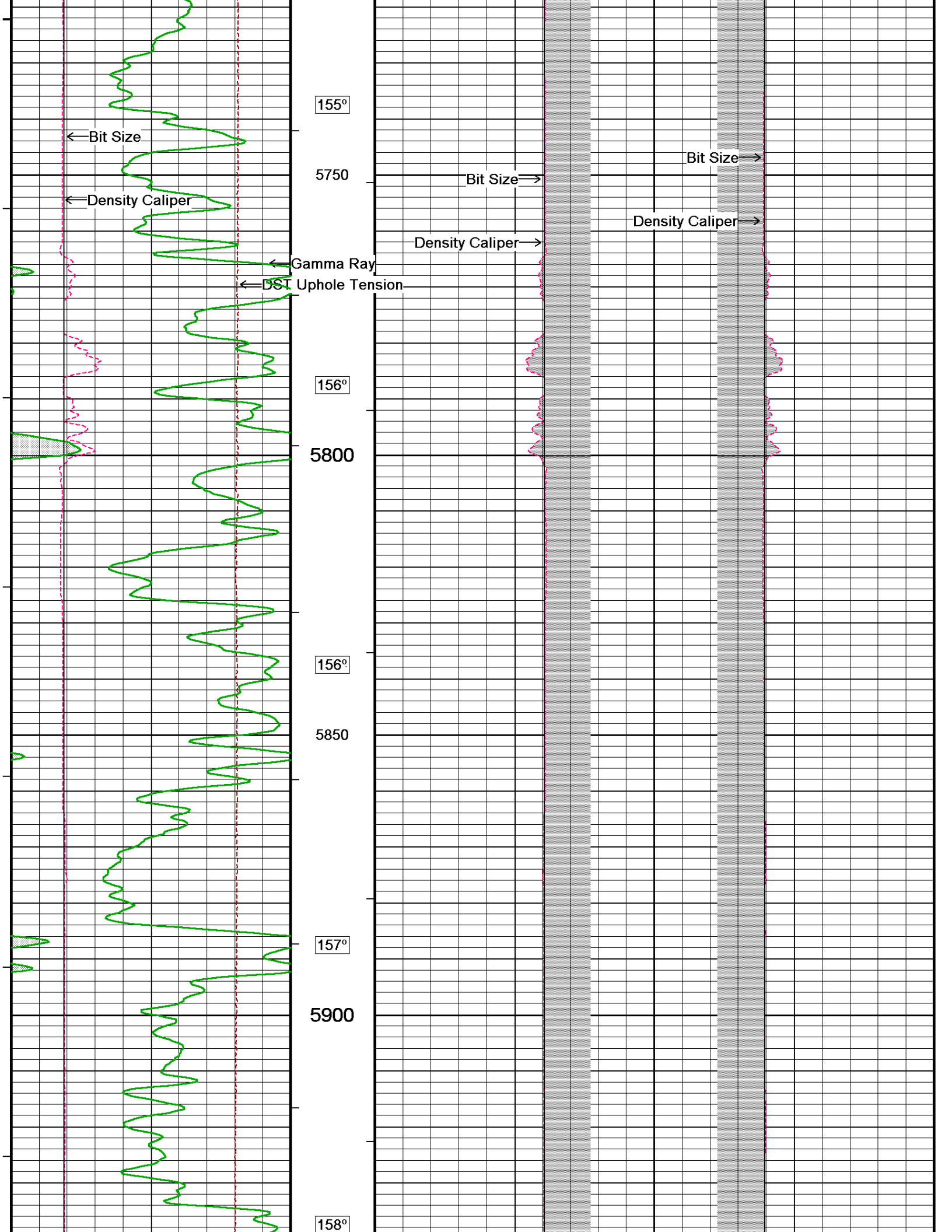
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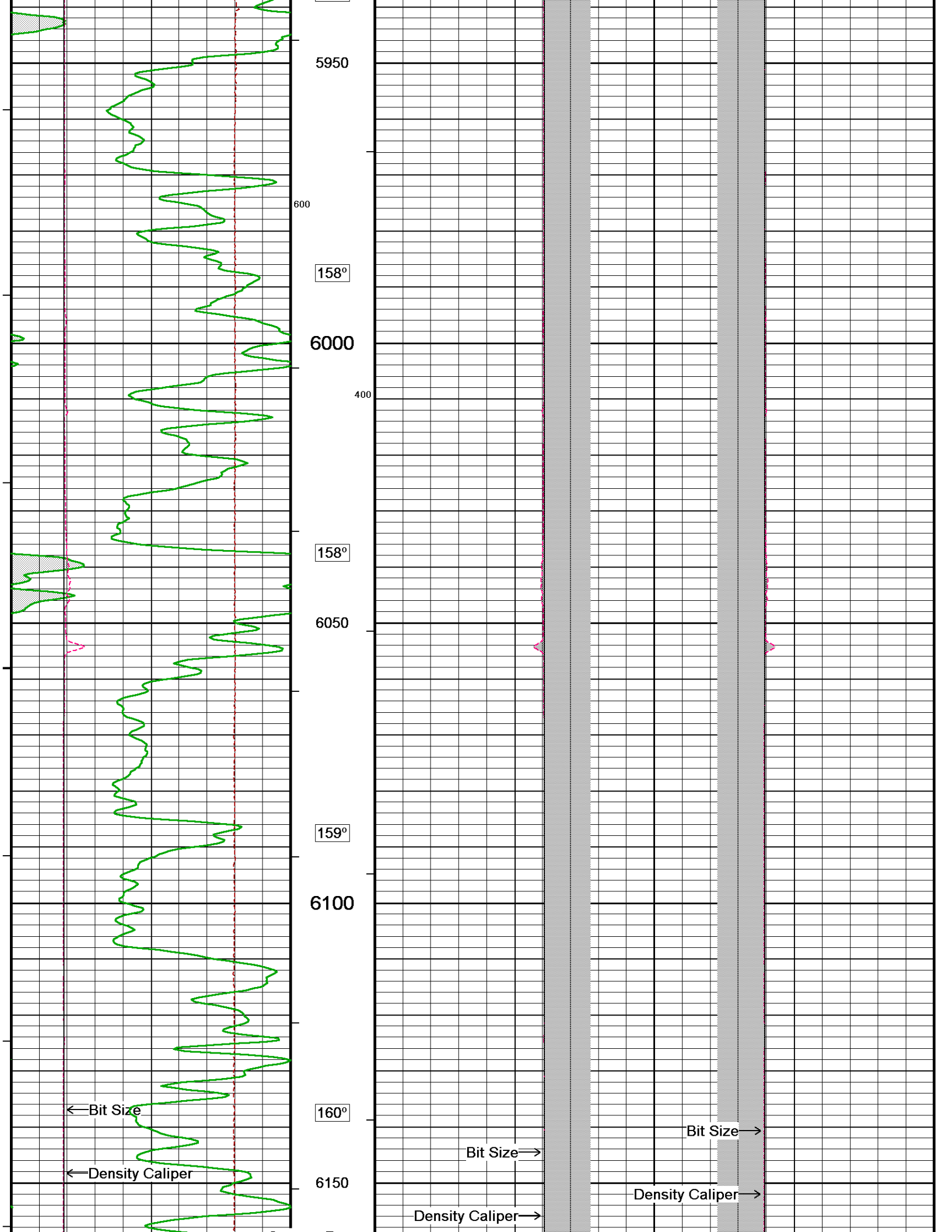
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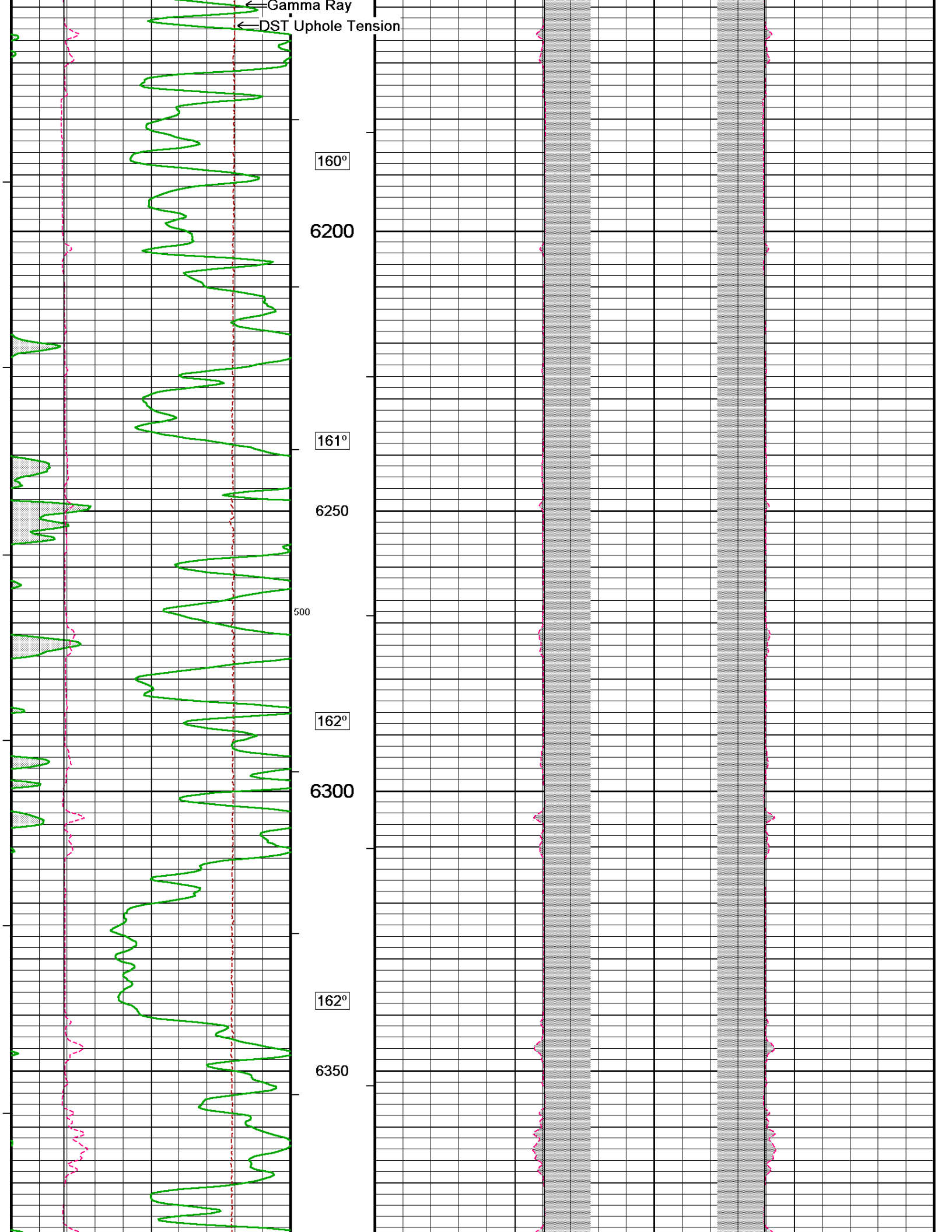


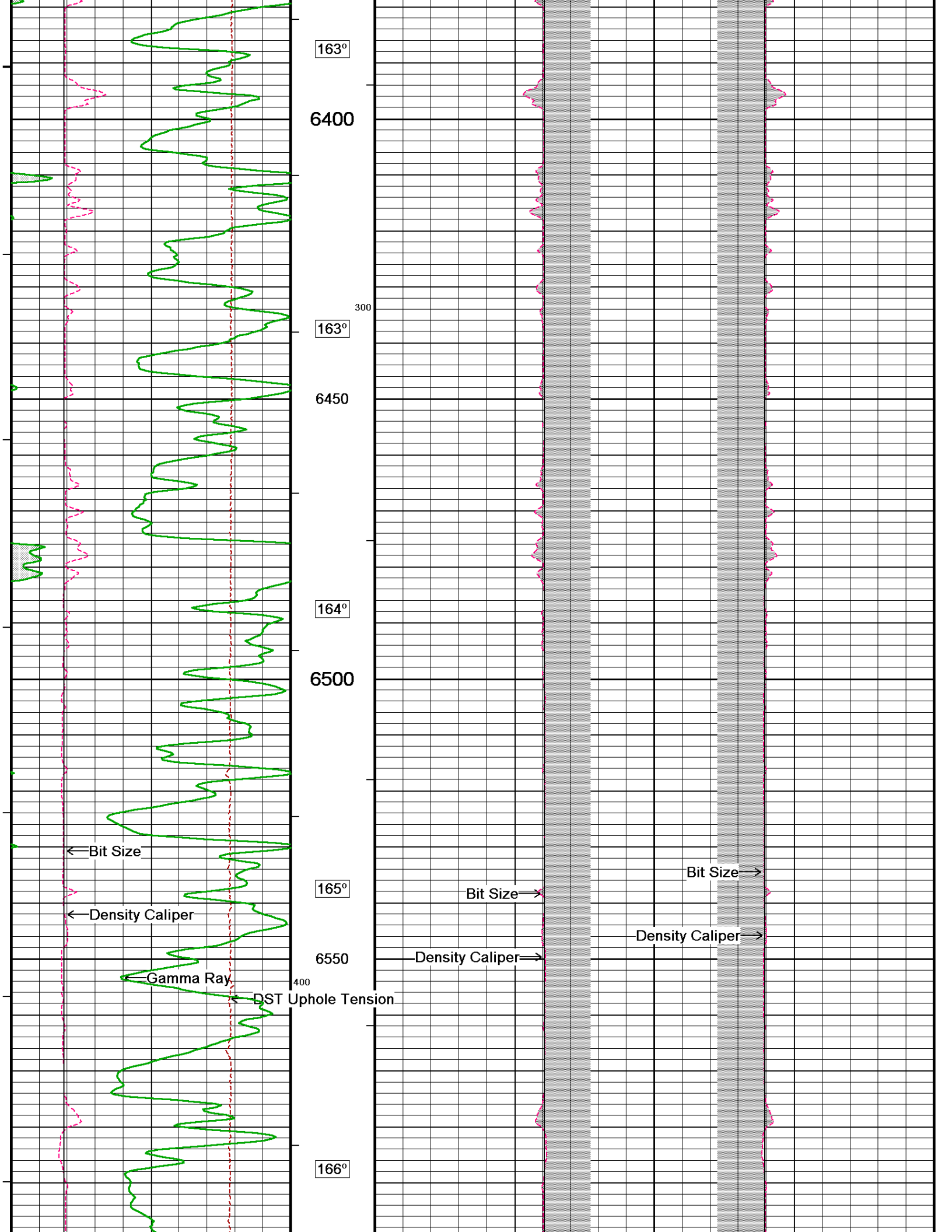


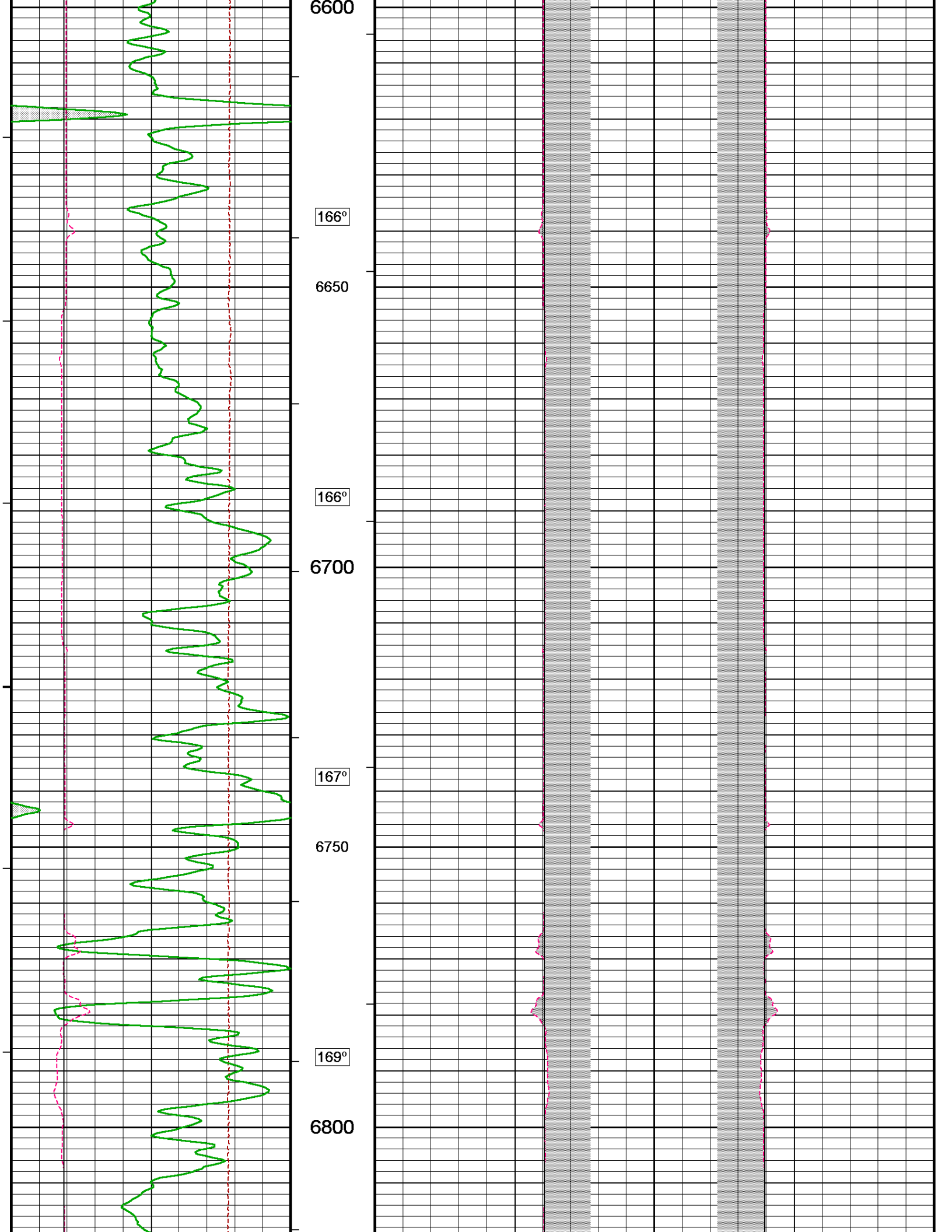


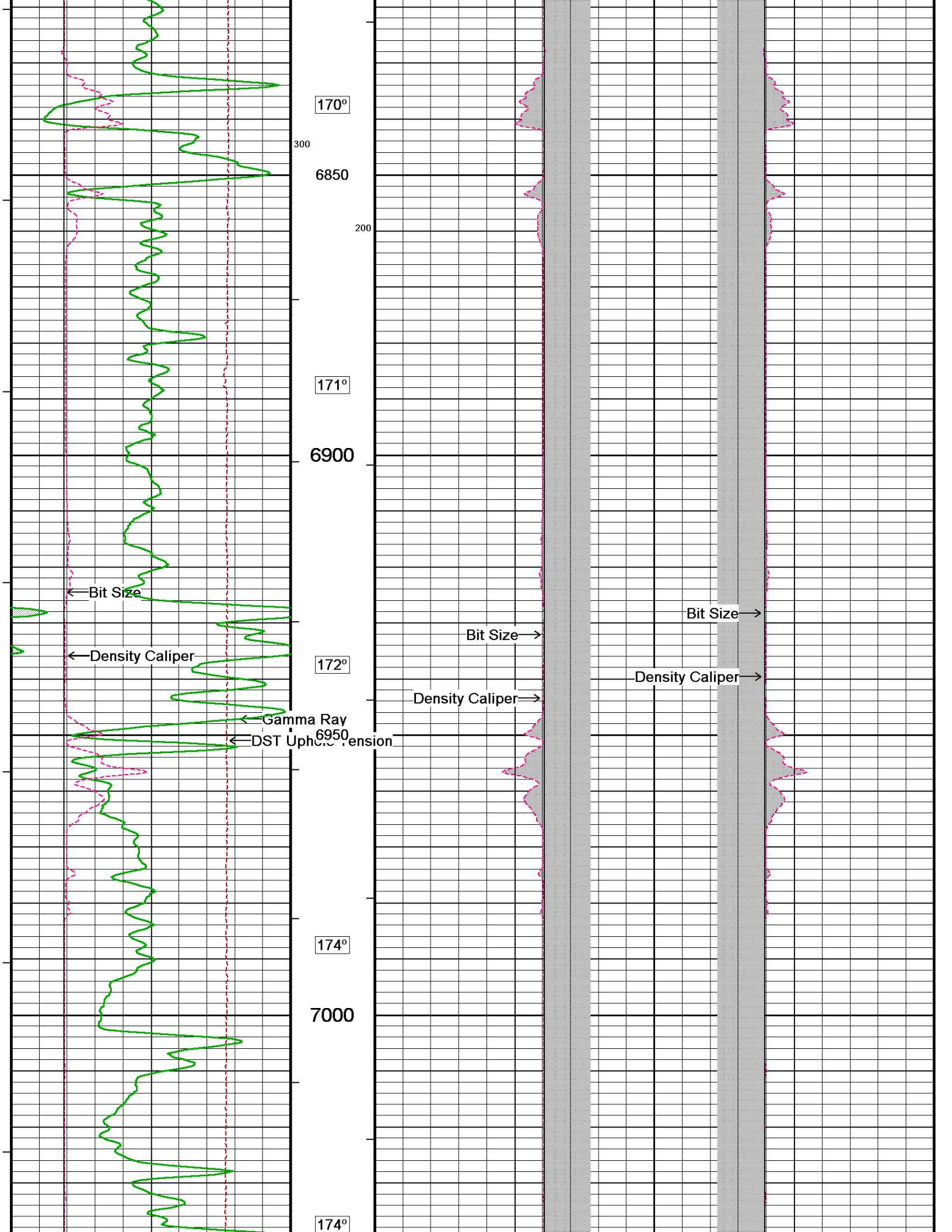


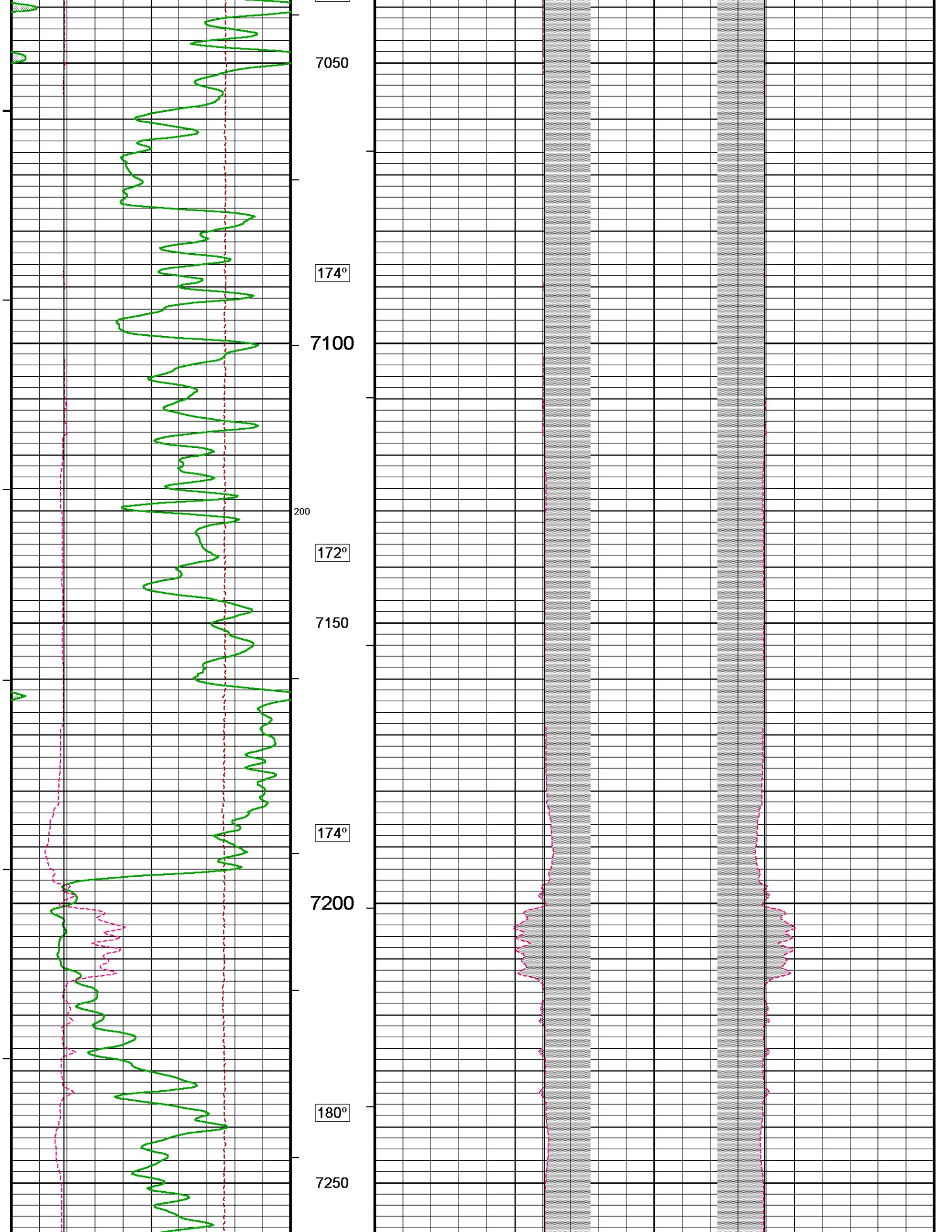


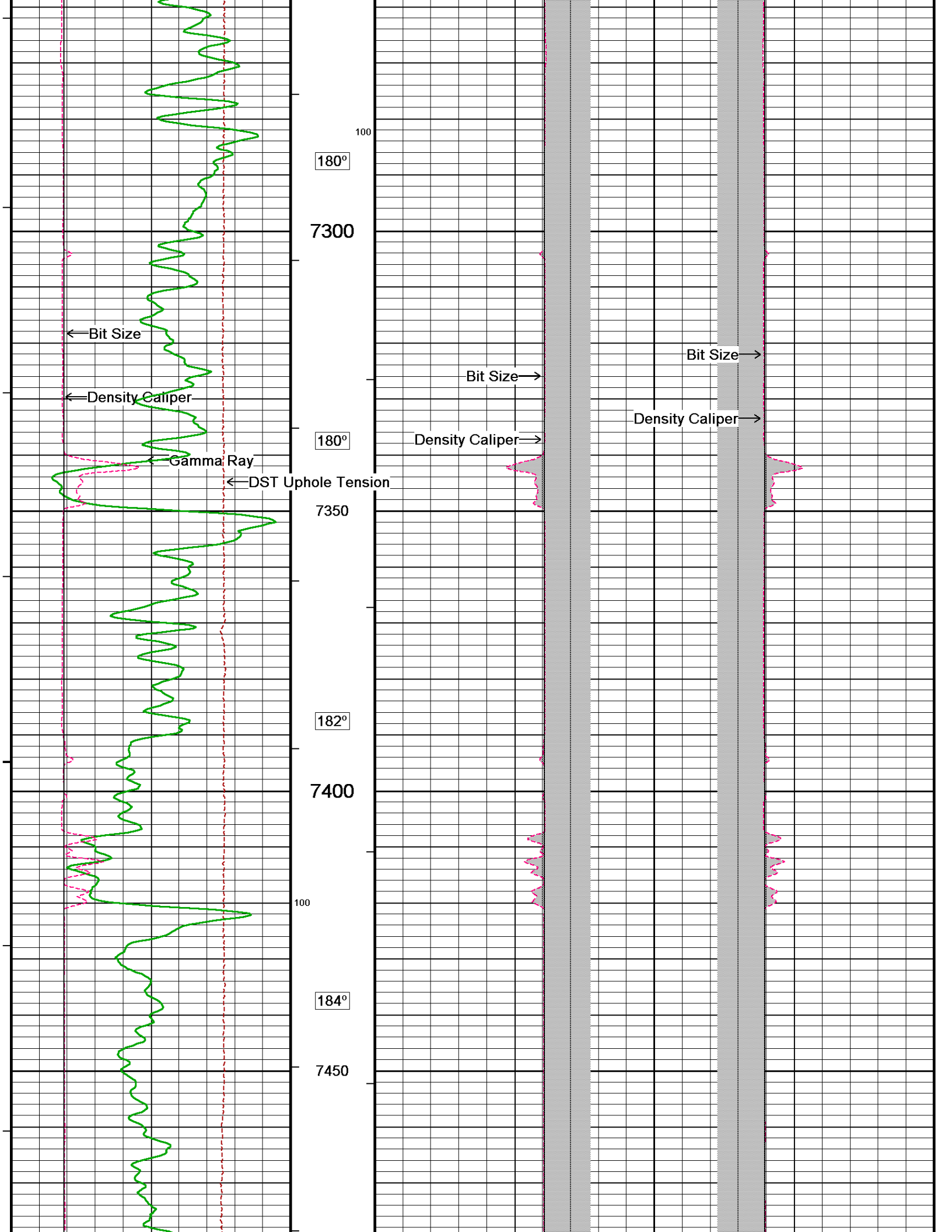


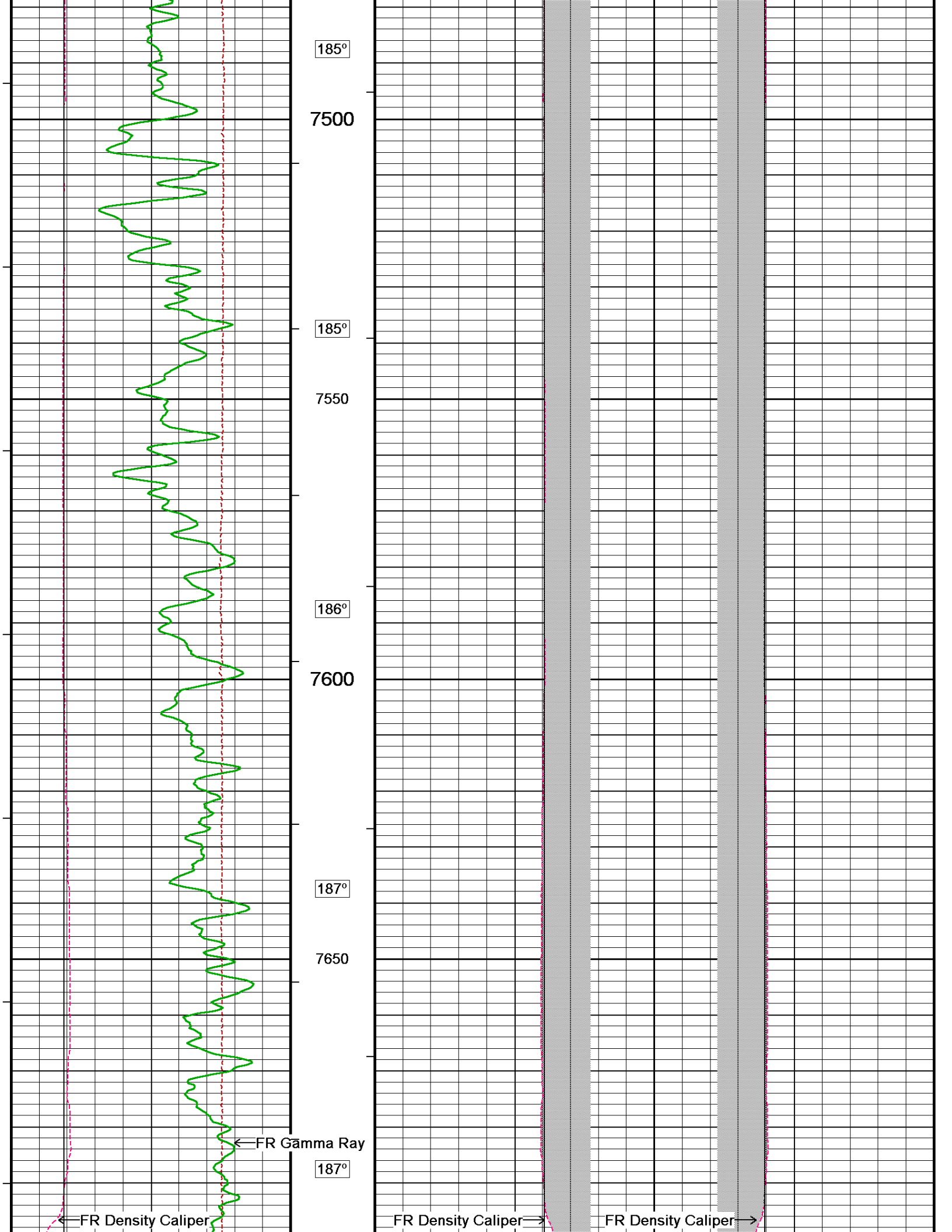


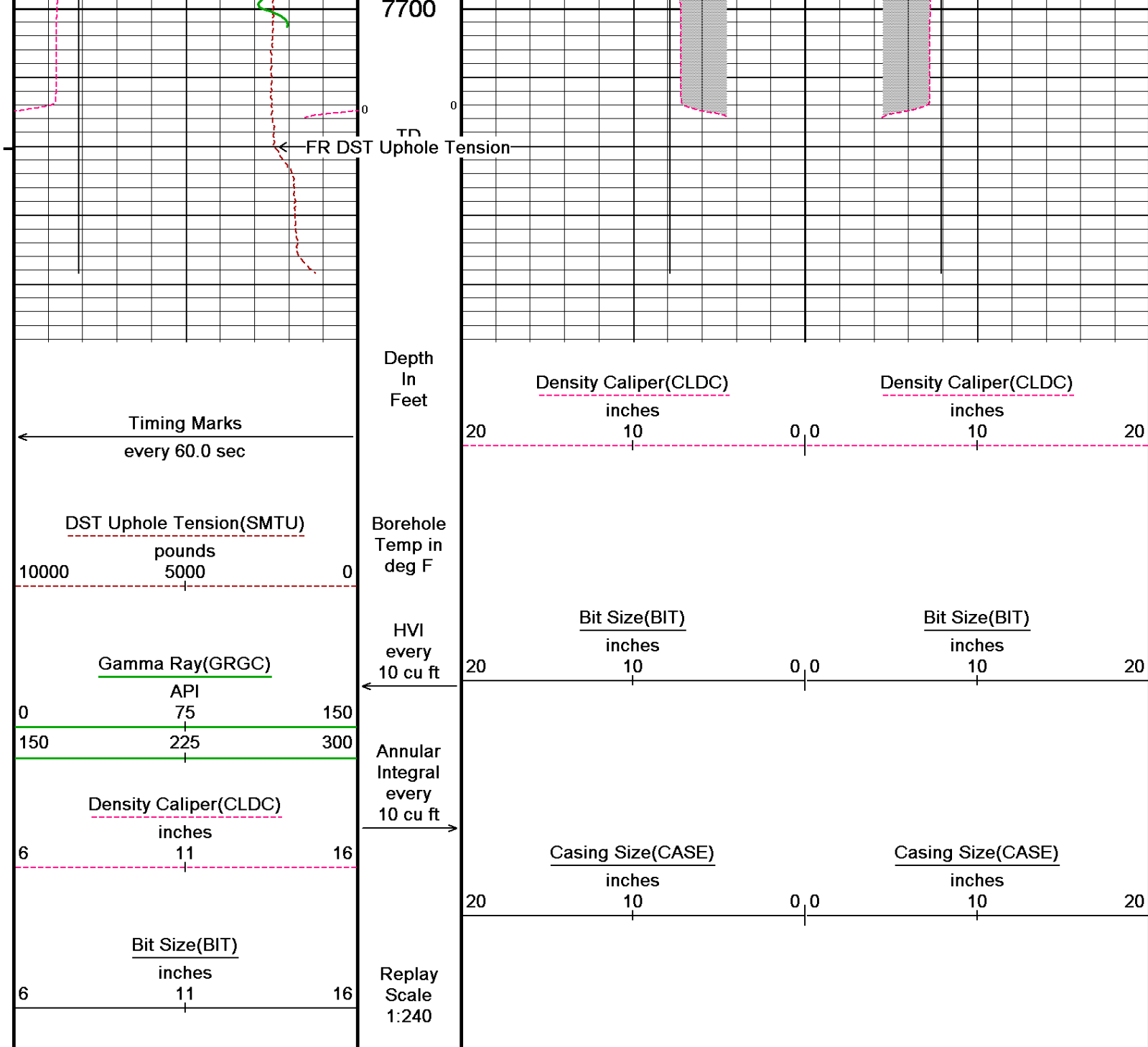












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5 INCH MAIN LOG

DOWNHOLE EQUIPMENT

C:\Logs\Kaufman 24C-24-692\Setup.dta

- 3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A.5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in
- SHA-F Compact Swivel Head Adaptor
SHA-F 82 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in
- Compact Comms Gamma
MCG-D.A 287 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in
- Compact Neutron
- 30.61 ft



37.07 ft GRGC - Gamma Ray
 34.16 ft CGXT - MCG External Temperature
 - 30.61 ft NRPS Sandstone Neutron Por

Compact Neutron
MDN-A.B 160 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

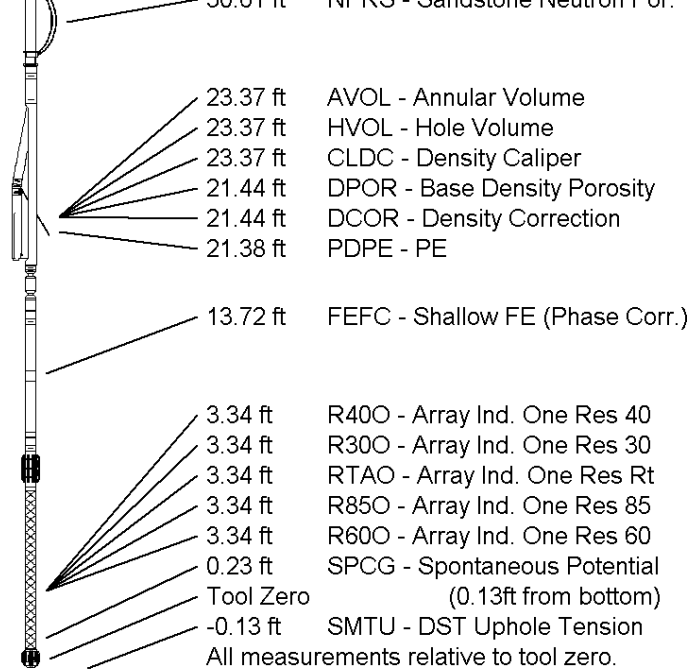
Compact Density/Caliper
MPD-B 167 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 114 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-A.A 85 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.A 213 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 46.67 ft Weight: 368.2 lb



COMPANY BILL BARRETT CORPORATION
WELL KAUFMAN 24C-24-692
FIELD MAMM CREEK
PROVINCE/COUNTY GARFIELD
COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	5866.00	feet	First Reading	7697.00
Elevation Drill Floor	5866.00	feet	Depth Driller	7720.00 feet
Elevation Ground Level	5843.00	feet	Depth Logger	7720.00 feet



HOLE VOLUME
CALIPER LOG

