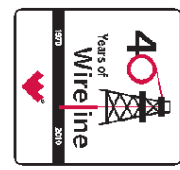




Weatherford

**HOLE VOLUME
CALIPER LOG**

COMPANY **BILL BARRETT CORPORATION**
 WELL **KAUFMAN 31B-24-692**
 FIELD **MAMM CREEK**
 PROVINCE/COUNTY **GARFIELD**
 COUNTRY/STATE **U.S.A. / COLORADO**
 LOCATION **SHL: 1414' FNL & 2199' FEL**
BHL: 856' FNL & 1958' FWL



SEC	TWP	RGE	Other Services
24	6S	92W	MPD/MDN MAI/MFE
API Number		05-045-19921	
Permit Number			
Permanent Datum G.L., Elevation 5763 feet			
Log Measured From KB			
Drilling Measured From K.B. @ 21 FEET			
Date	24-SEP-2011		
Run Number	ONE		
Depth Driller	7435.00	feet	Elevations: KB 5786.00
Depth Logger	7428.00	feet	DF 5786.00
First Reading	7404.00		GL 5763.00
Last Reading	839.00		
Casing Driller	840.00	feet	
Casing Logger	839.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	LSND		
Density / Viscosity	10.40 lb/USg	58.00 CP	
PH / Fluid Loss	10.00	7.00 ml/30Min	
Sample Source	FLOW LINE		
Rm @ Measured Temp	2.70 @ 93.0	ohm-m	
Rmf @ Measured Temp	2.16 @ 93.0	ohm-m	
Rmc @ Measured Temp	3.24 @ 93.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.40 @ 181.0	ohm-m	
Time Since Circulation	5 HOURS		
Max Recorded Temp	181.00	deg C	
Equipment Name	COMPACT		
Equipment / Base	13173	GD JCT	
Recorded By	M.RICHINS		
Witnessed By	C.CROWTON		
Service Order	3532401		

BOREHOLE RECORD

Last Edited: 24-SEP-2011 21:26

Bit Size inches	Depth From feet	Depth To feet
8.750	840.00	5404.00
7.880	5404.00	7435.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	840.00	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.

UNDERGAUGE CALIPER MESUREMENT AT 6700-6950 FEET REPEATED 3X WITH NO CHANGE IN TOOL RESPOSE.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.92" (9 5/8", 36 LB/FT CASING).

8.75 INCH BIT CHANGE MEASURED AT 5394 FT.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2680 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2000 CU.FT.

ENGINEER(S): M.RICHINS

OPERATOR(S): K. BOBLITT

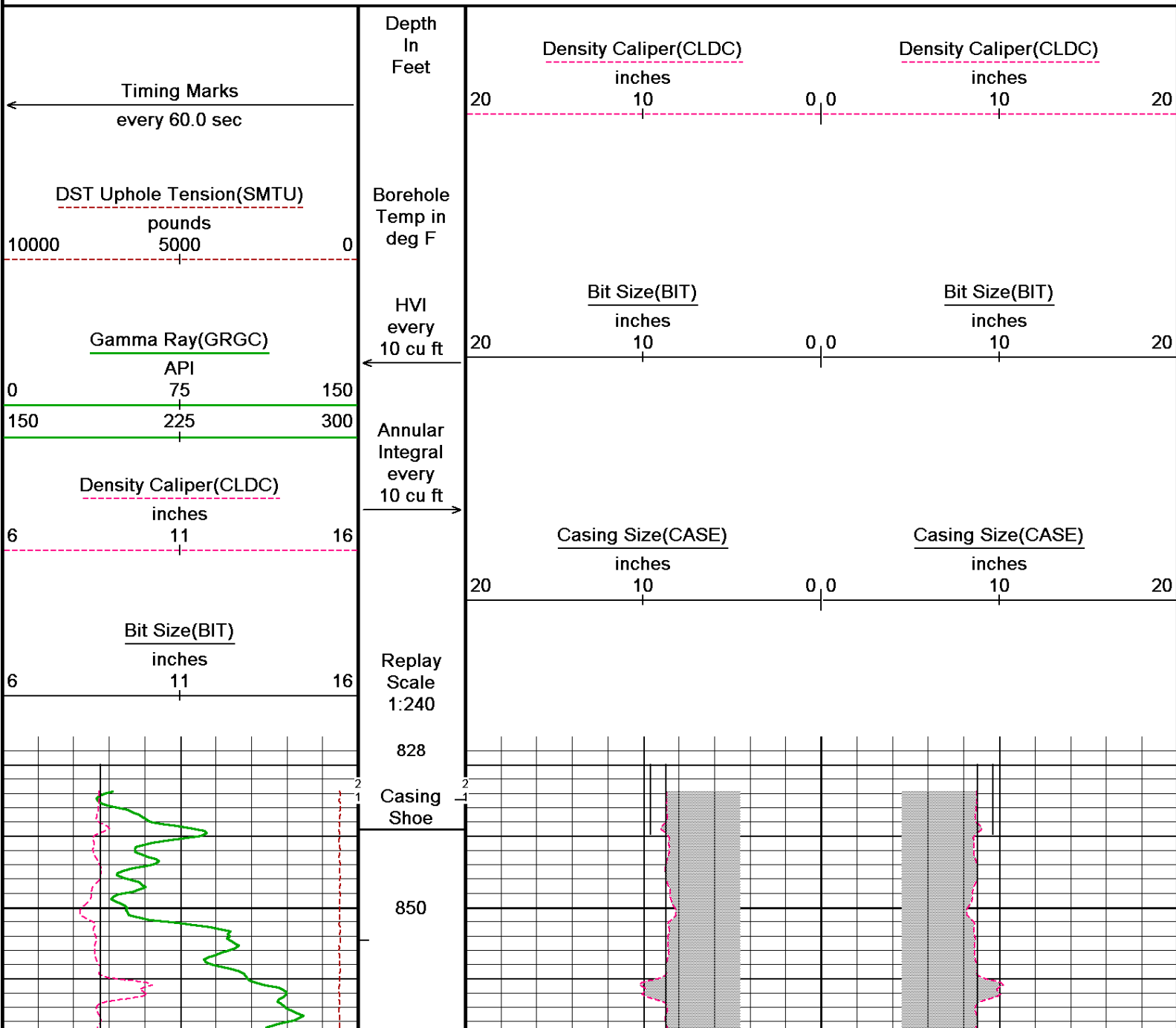
SERVICE ORDER: # 3532401

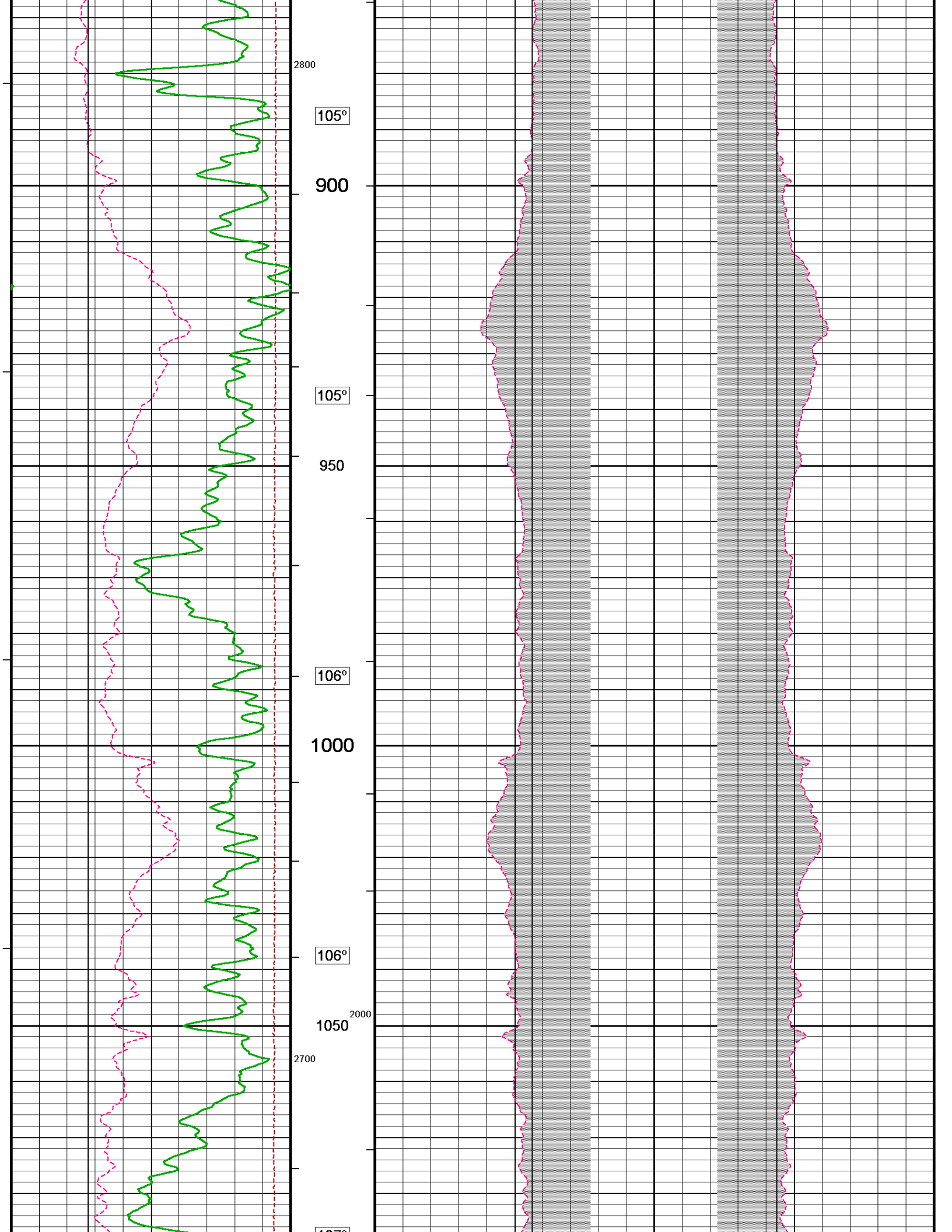
RIG: PATTERSON 307

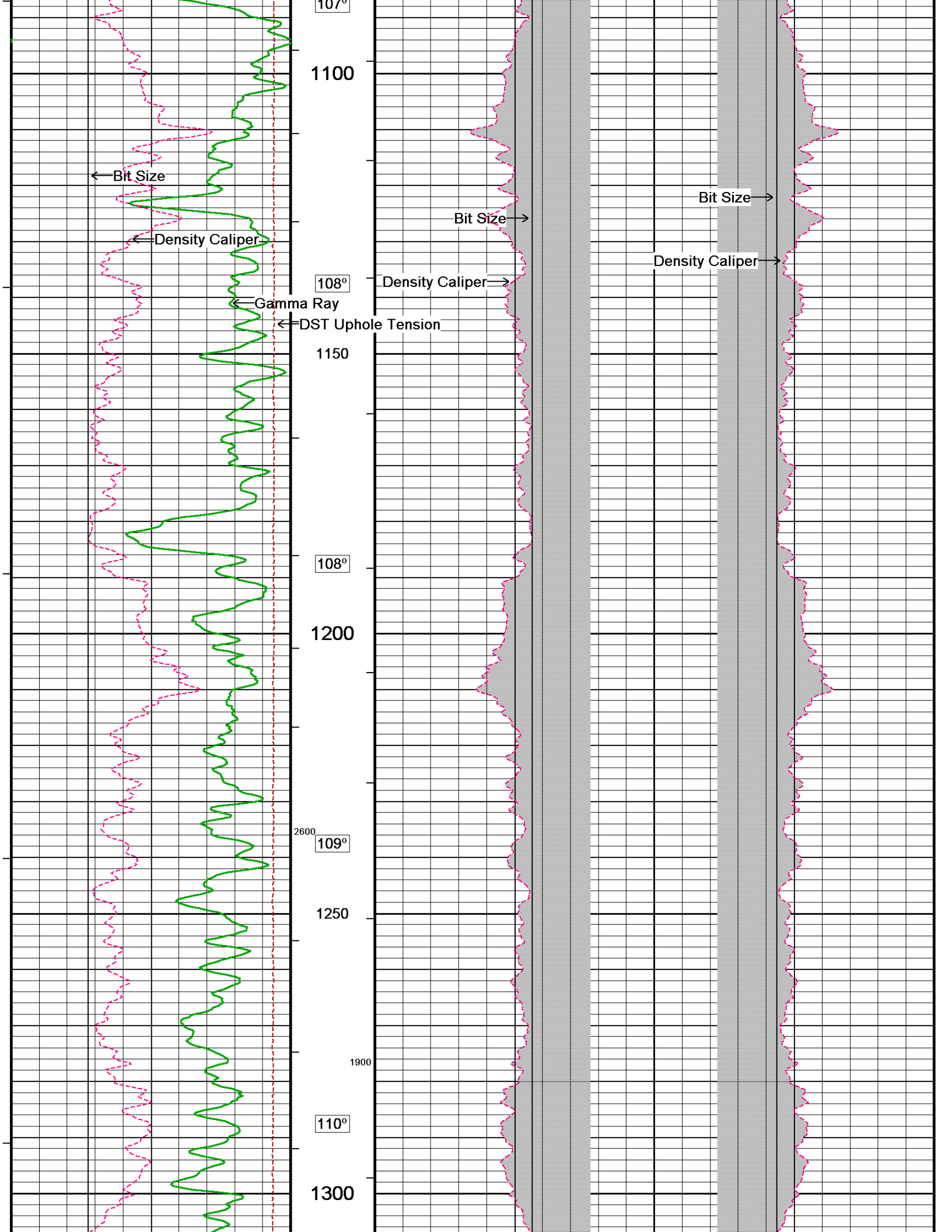
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.

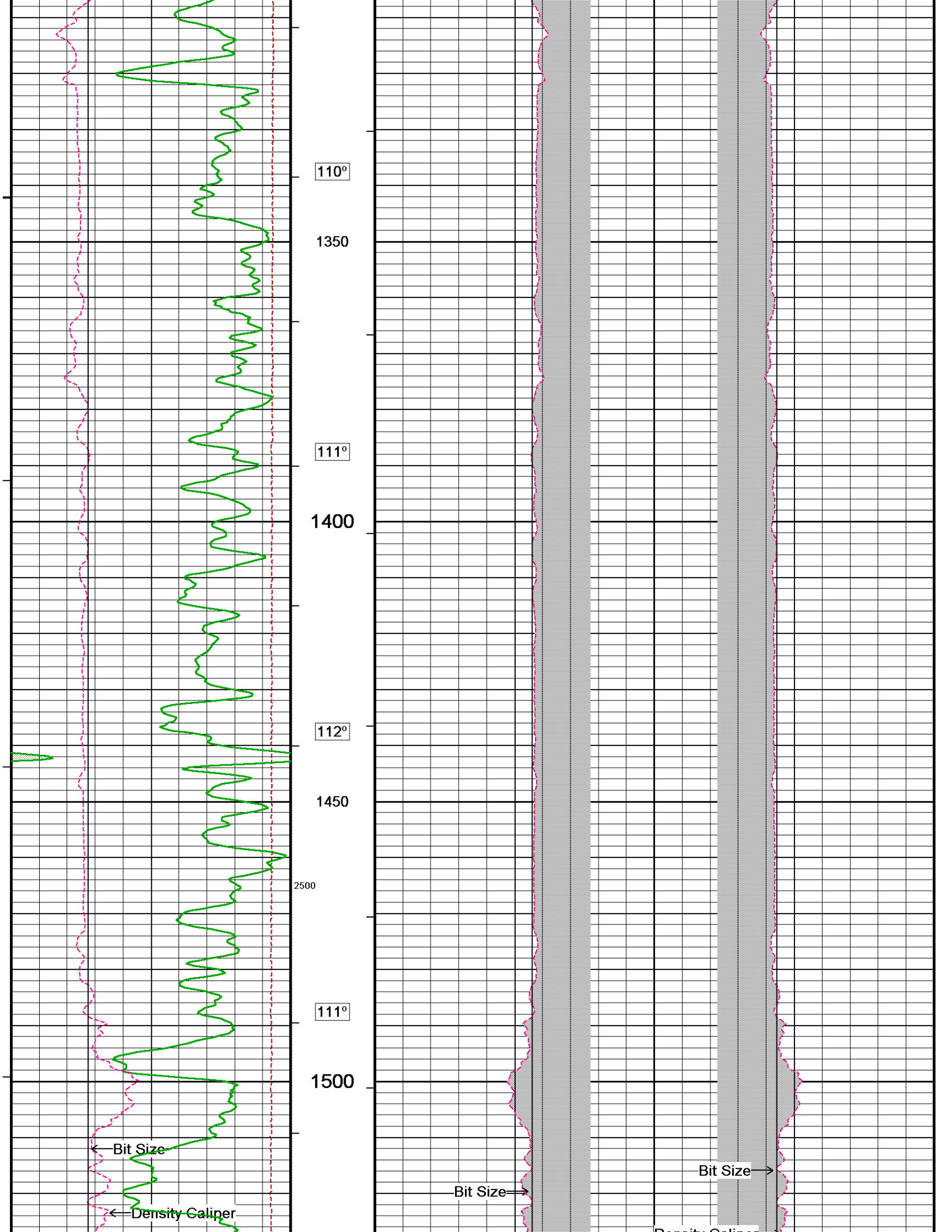
5 INCH MAIN LOG

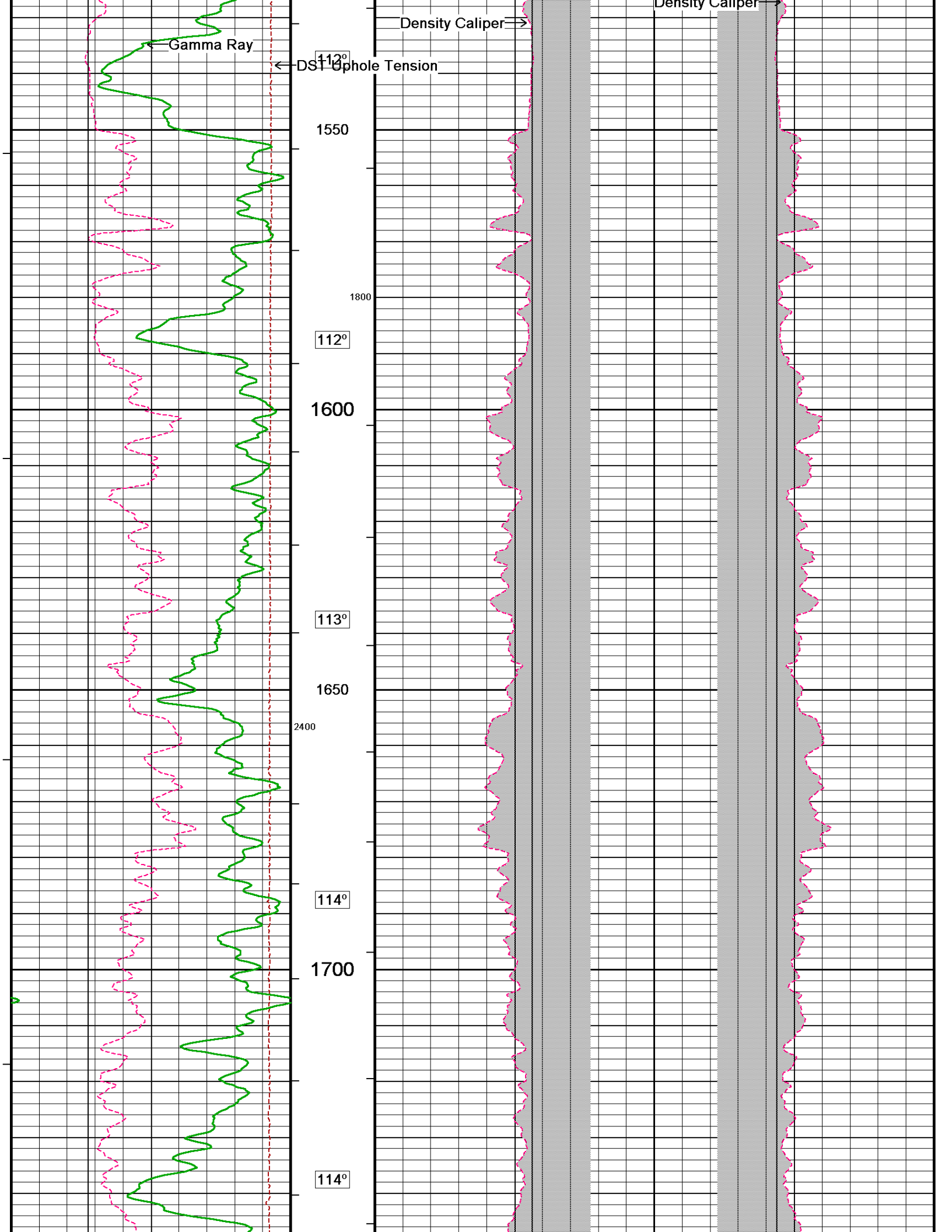
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 System Versions: Logged with 12.02.4401 Plotted with 12.02.4401

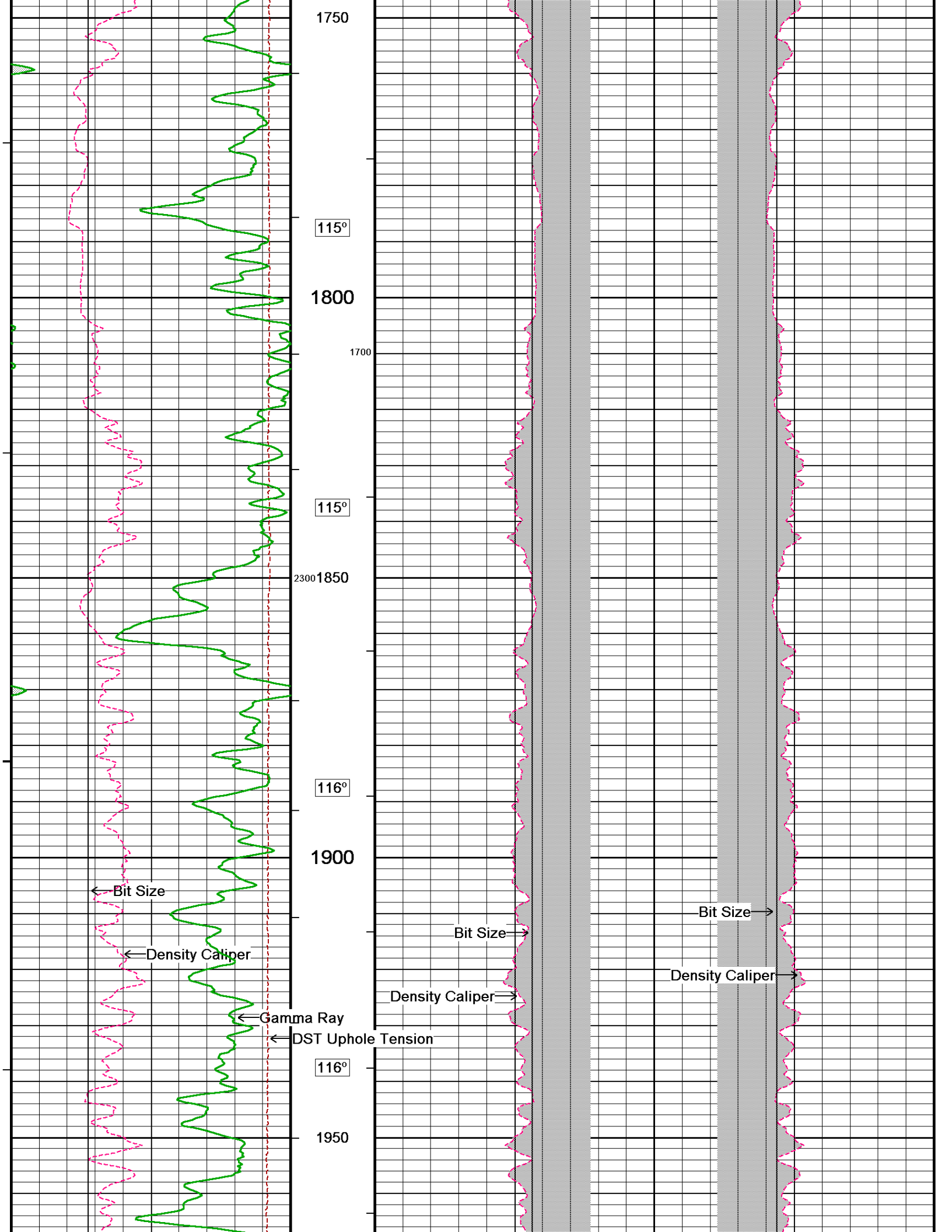


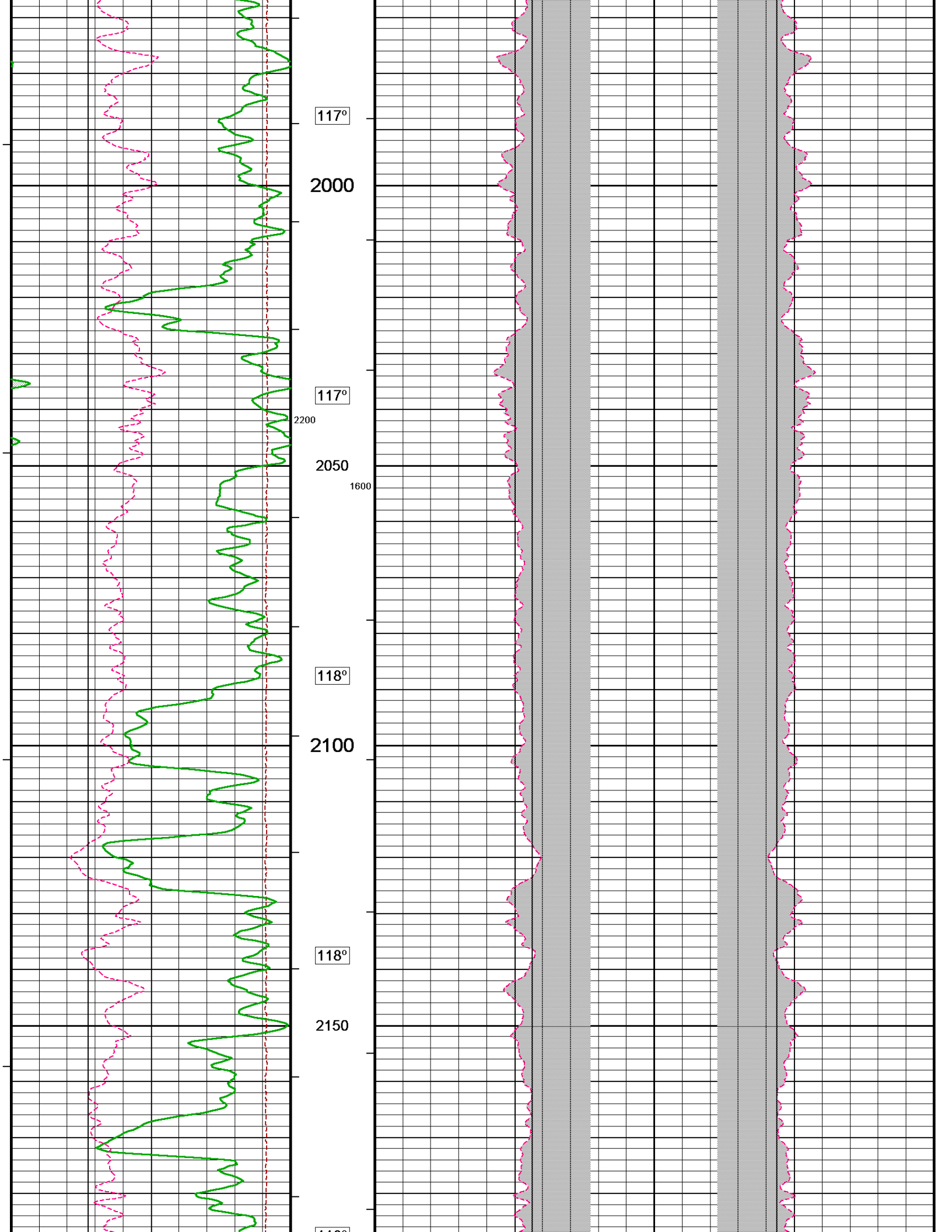


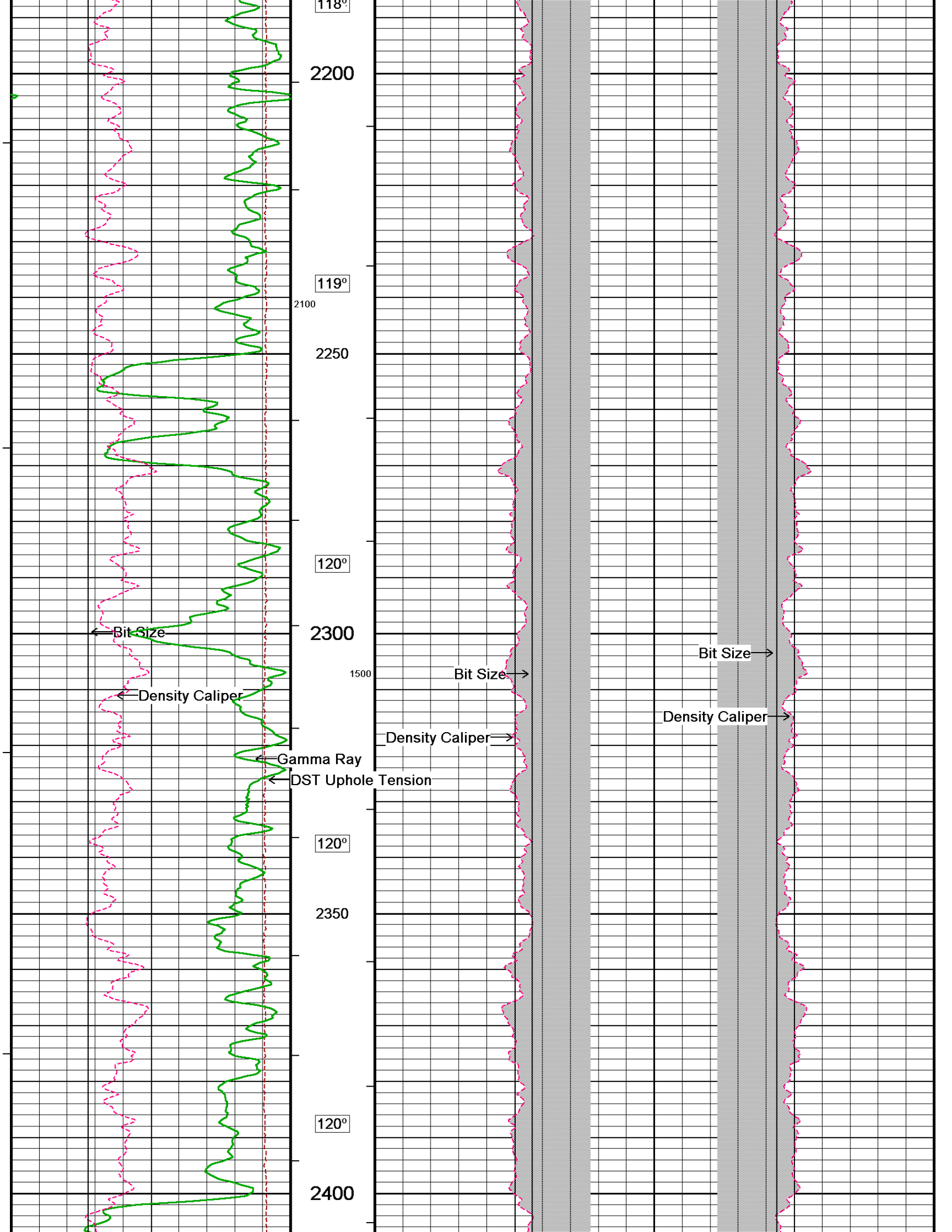


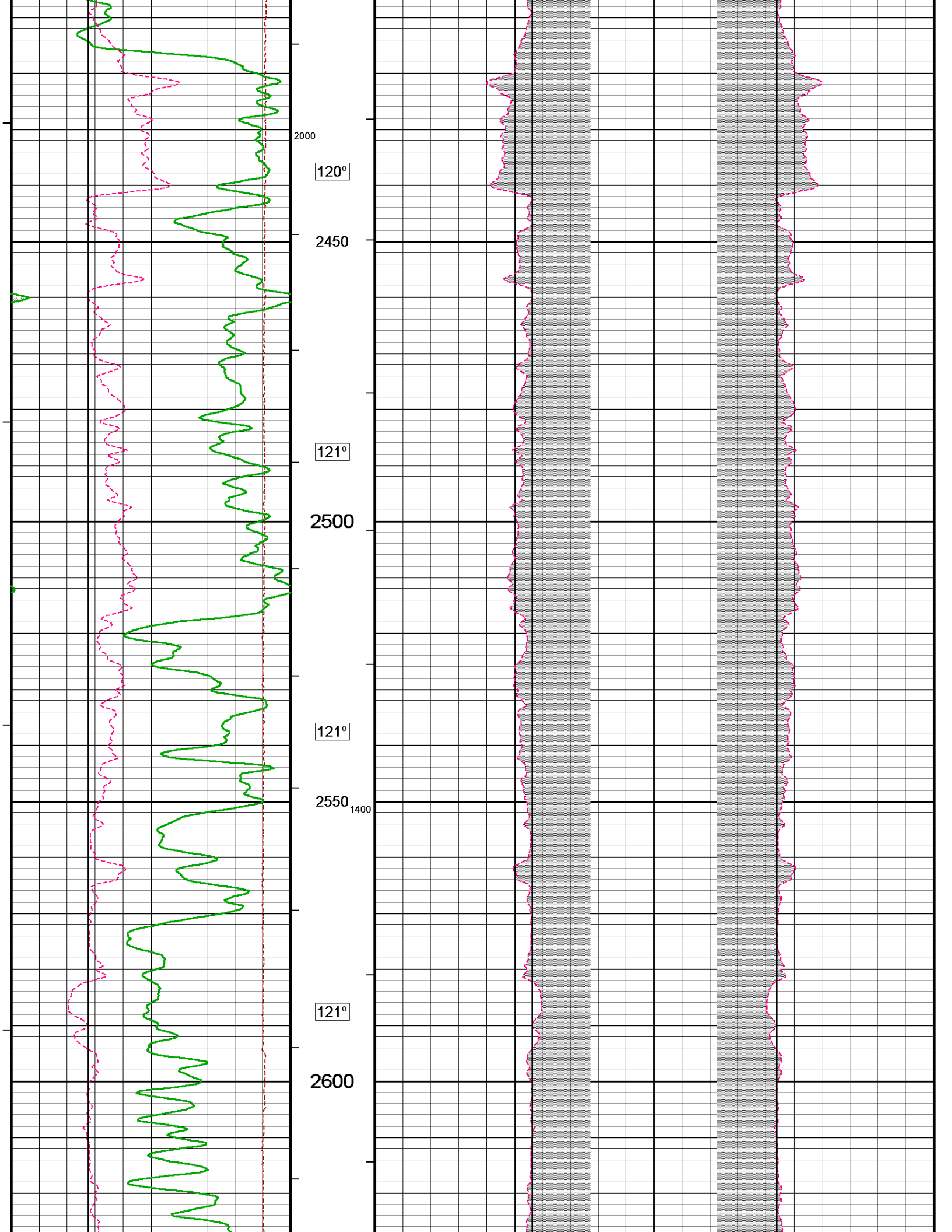


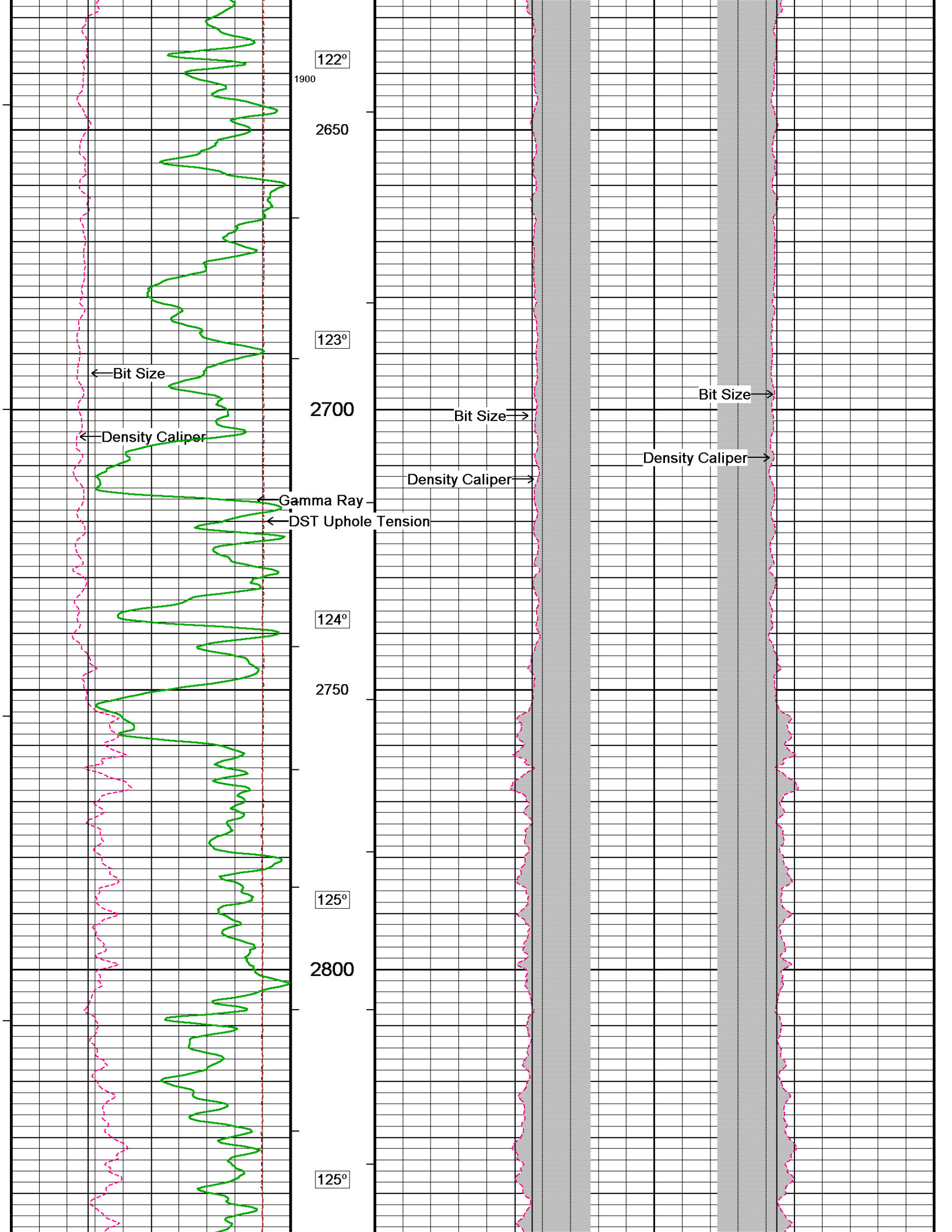


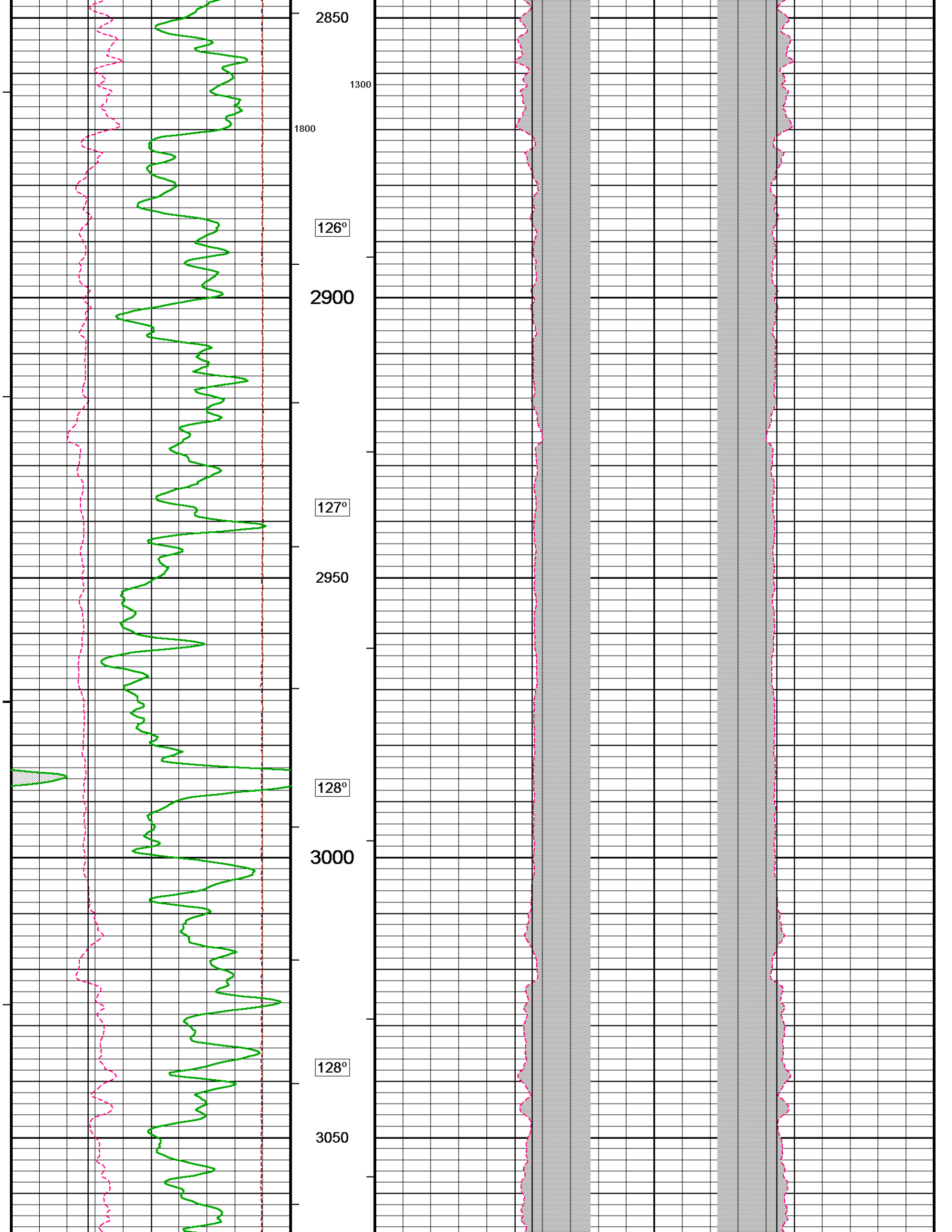


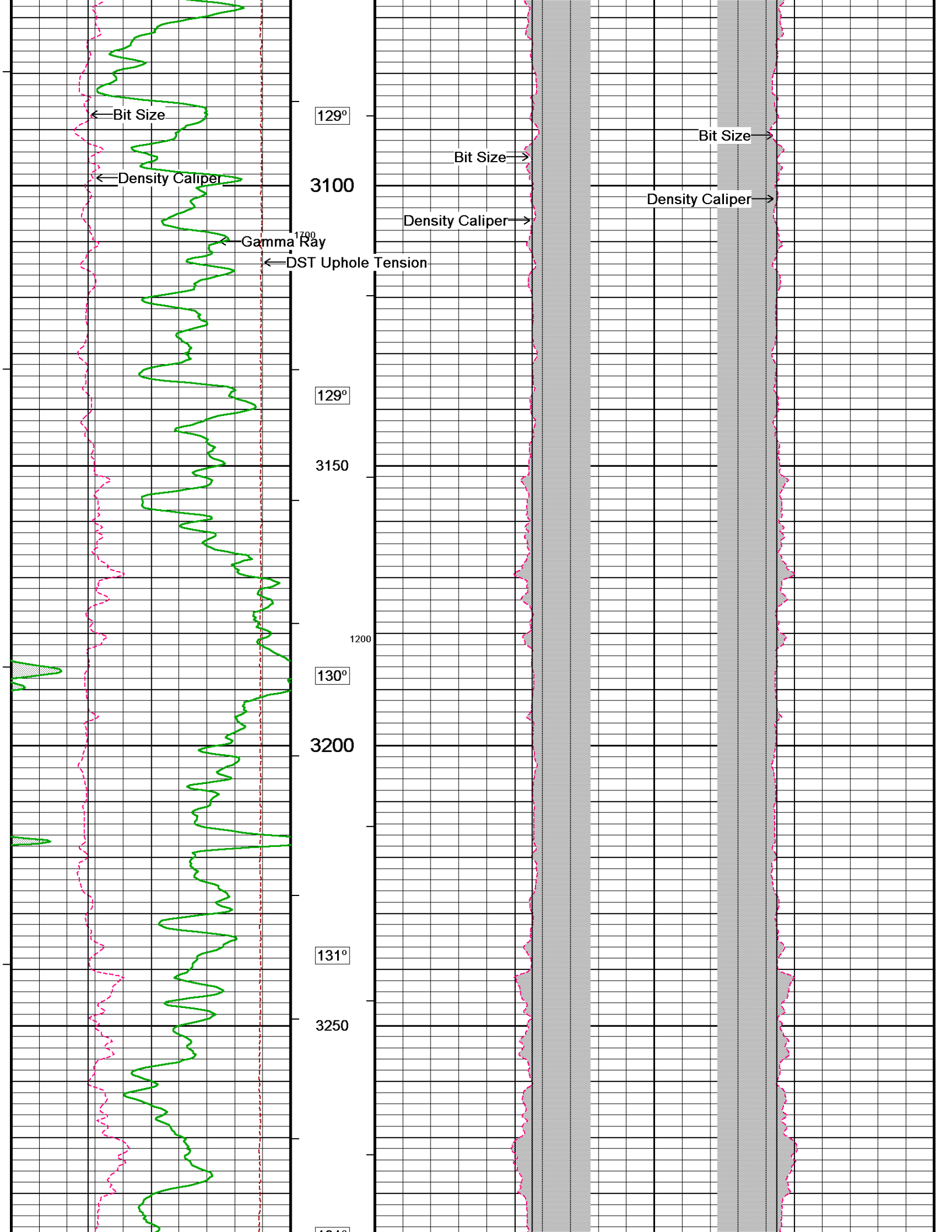


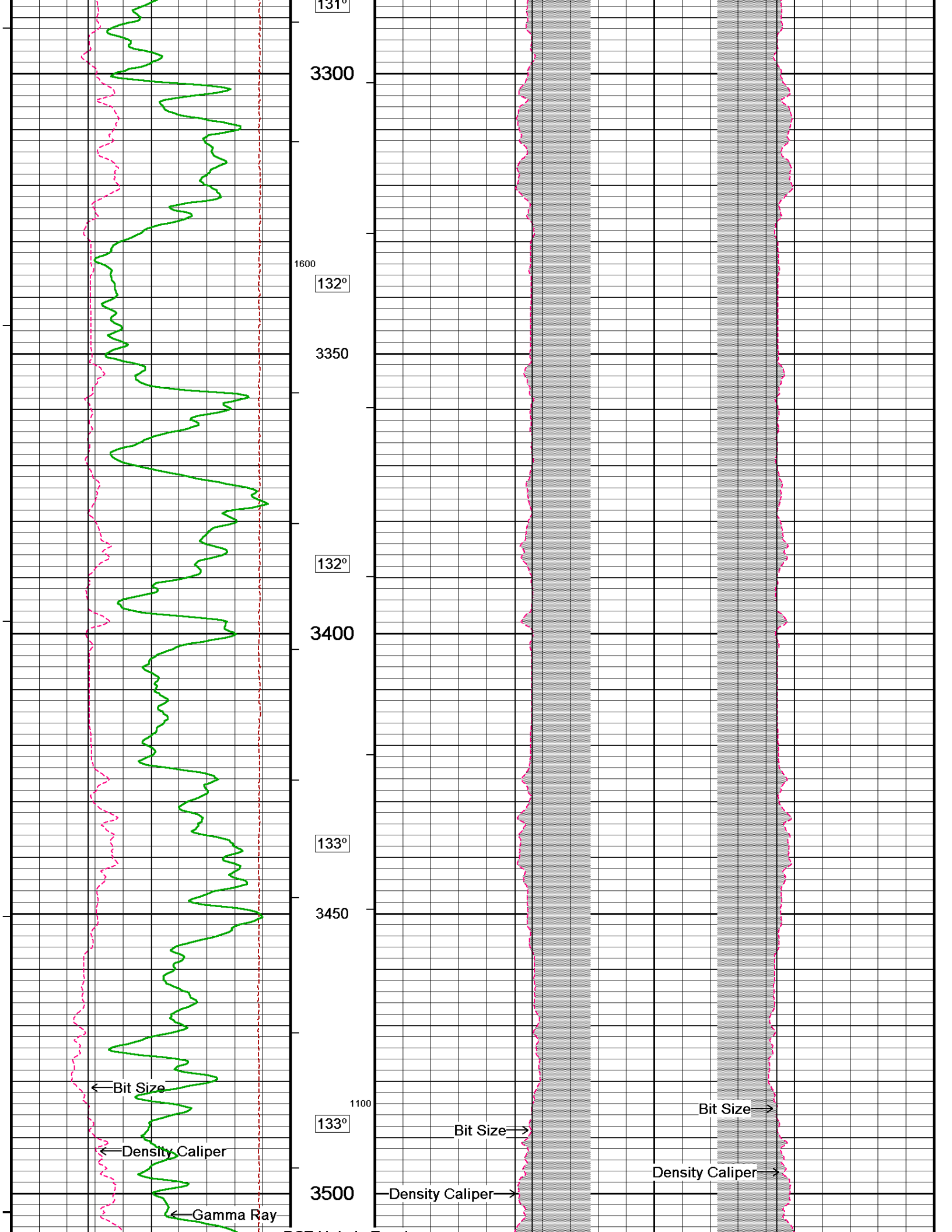


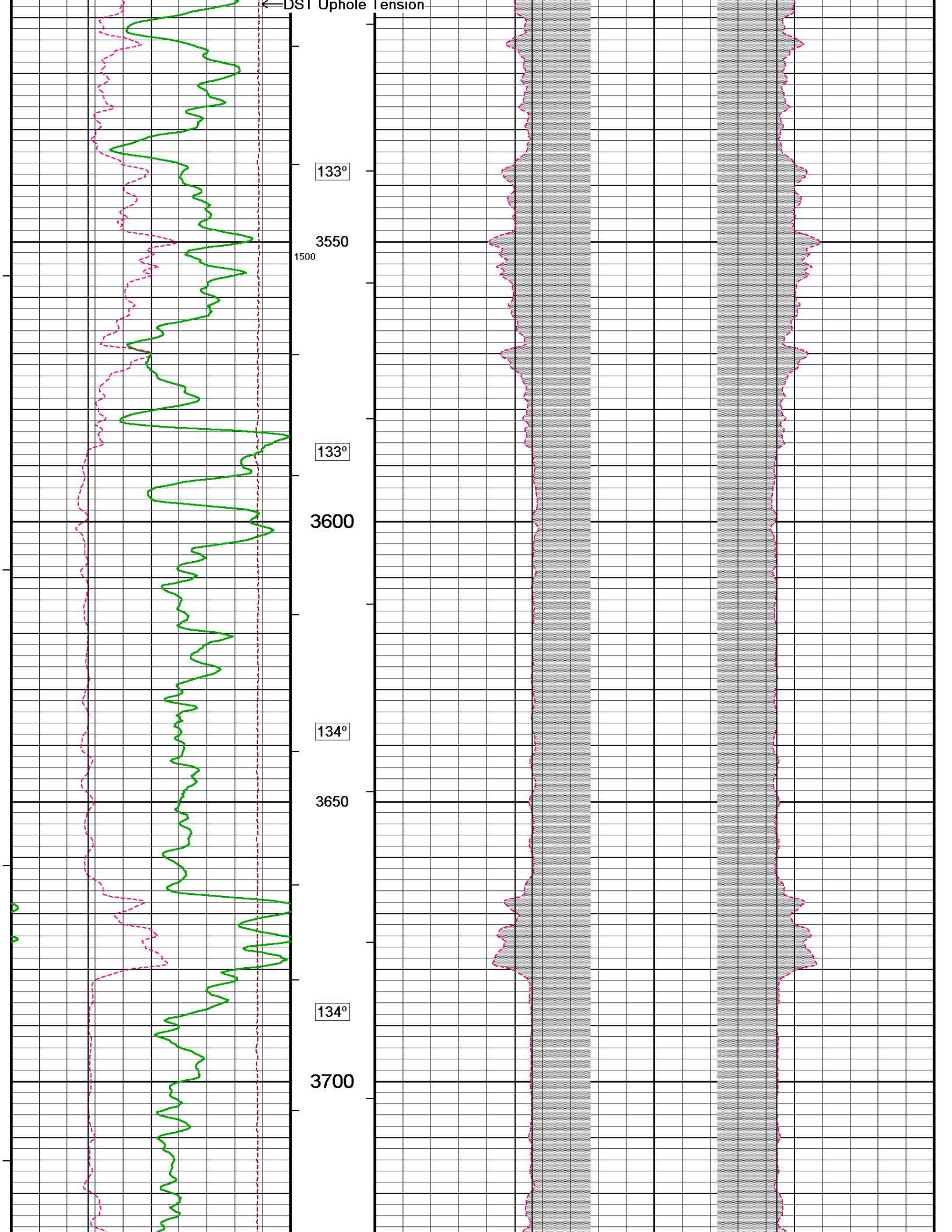


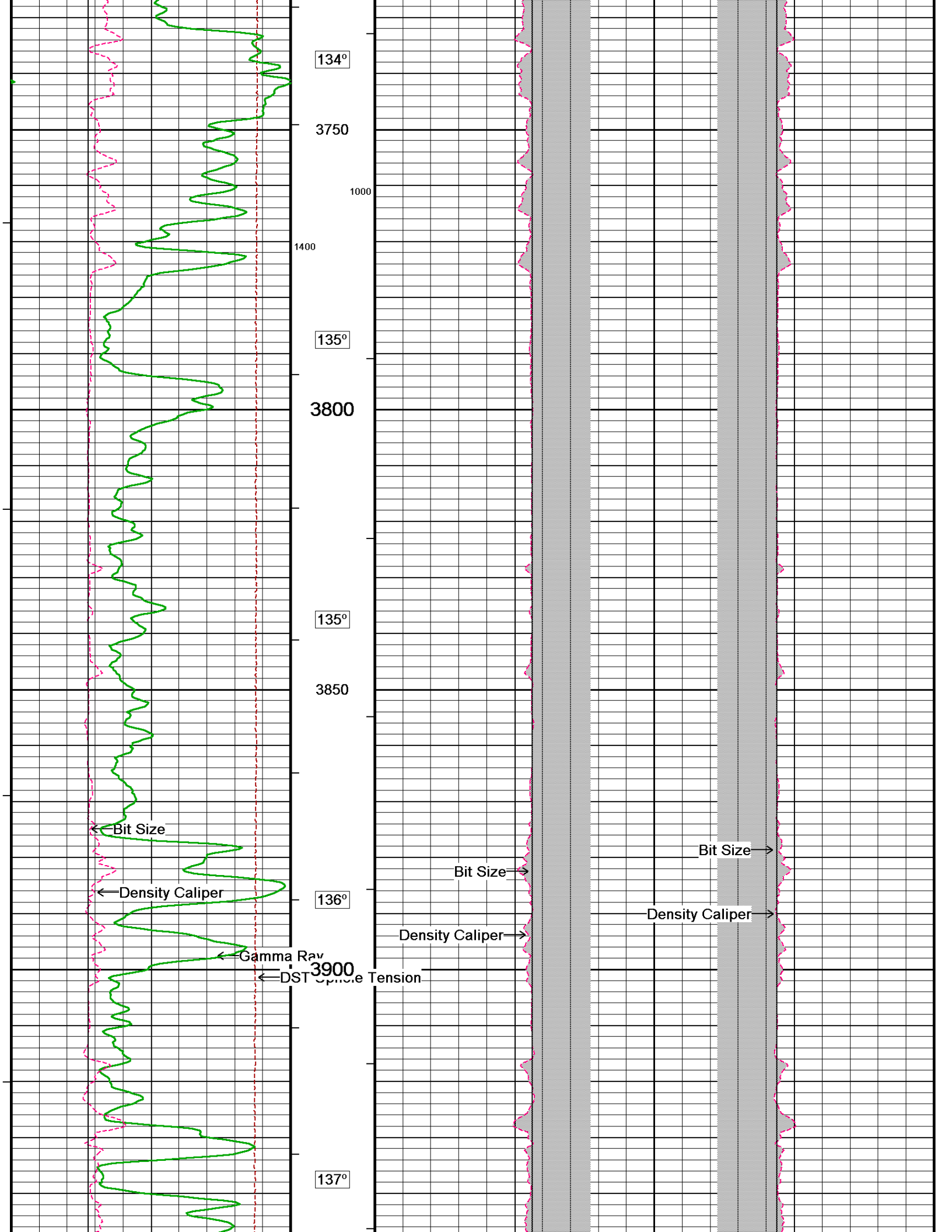


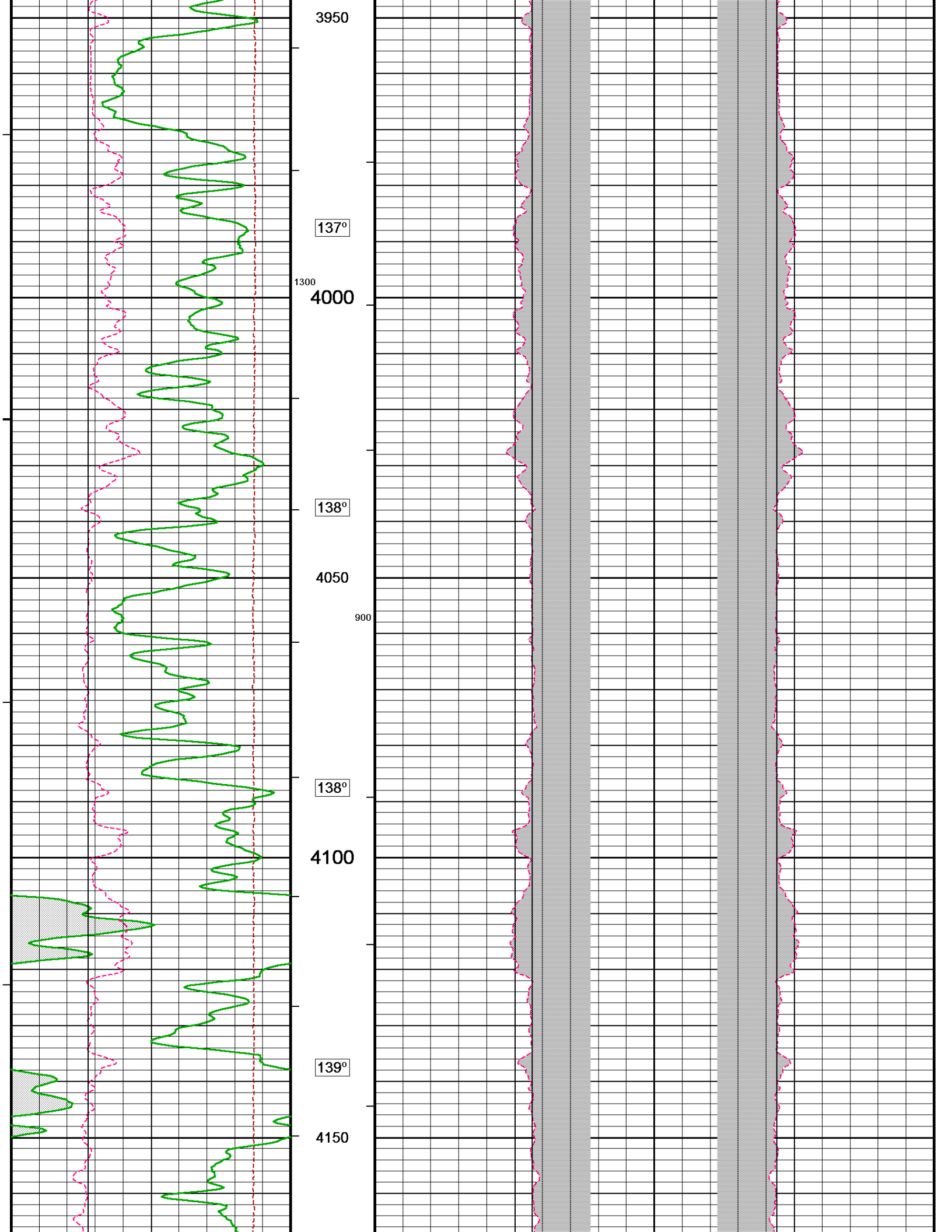


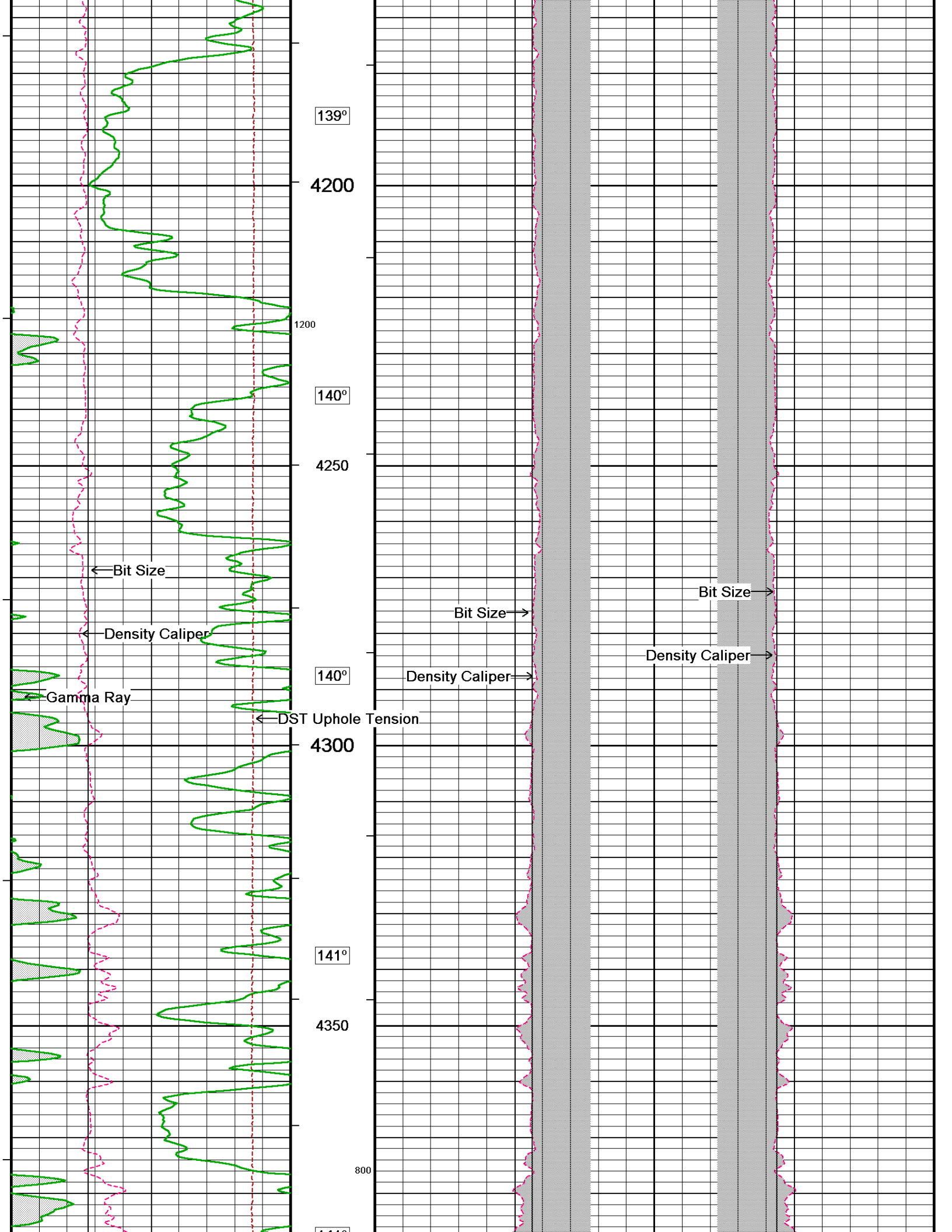


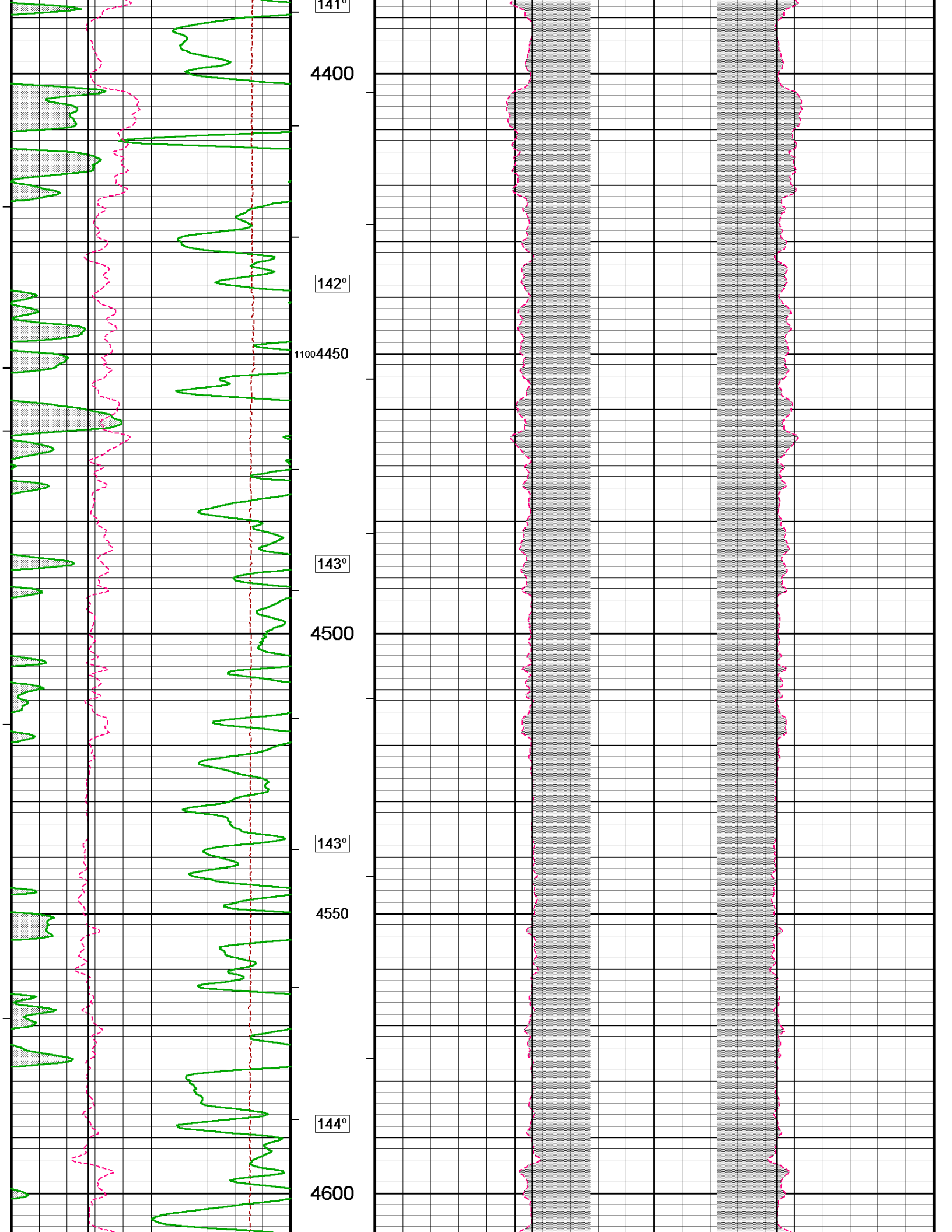


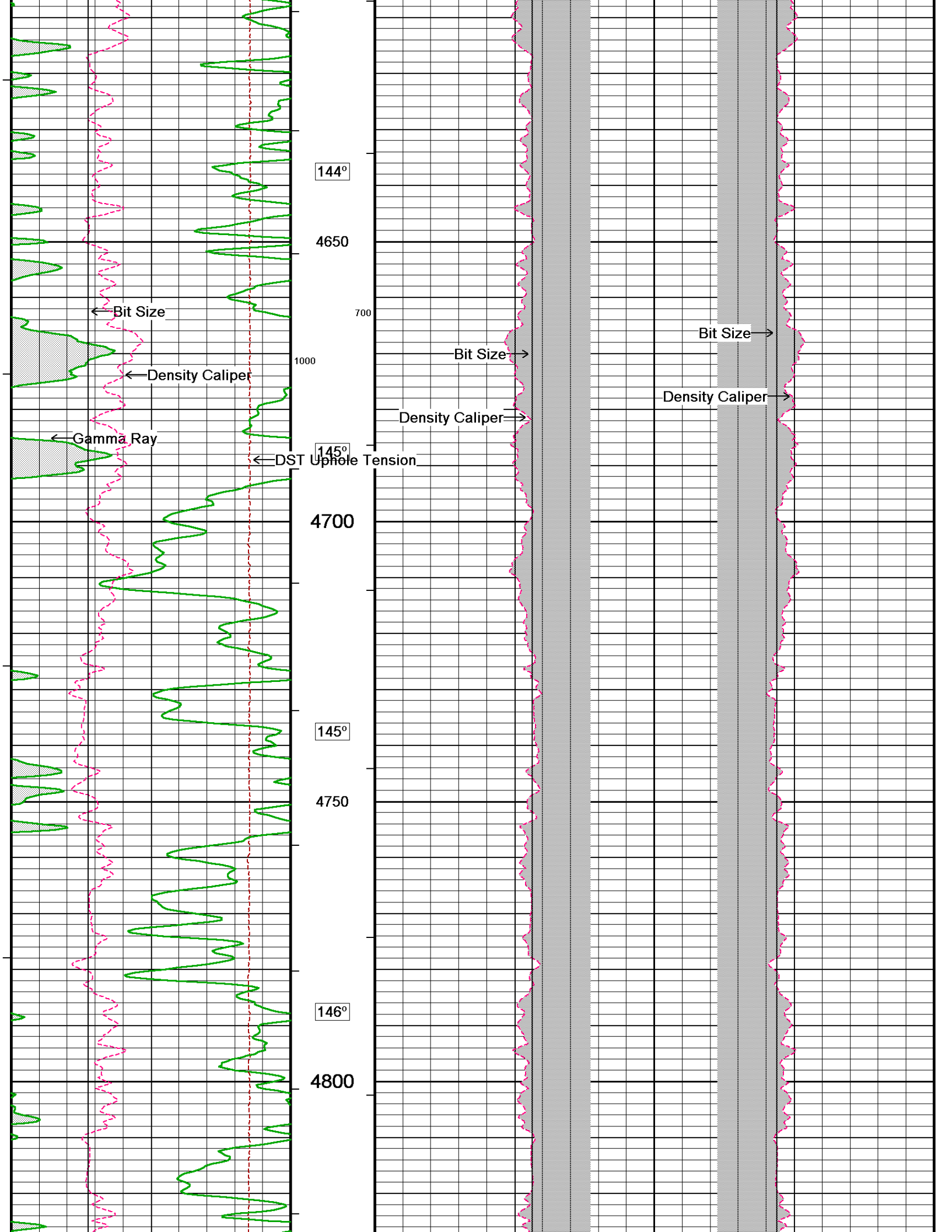


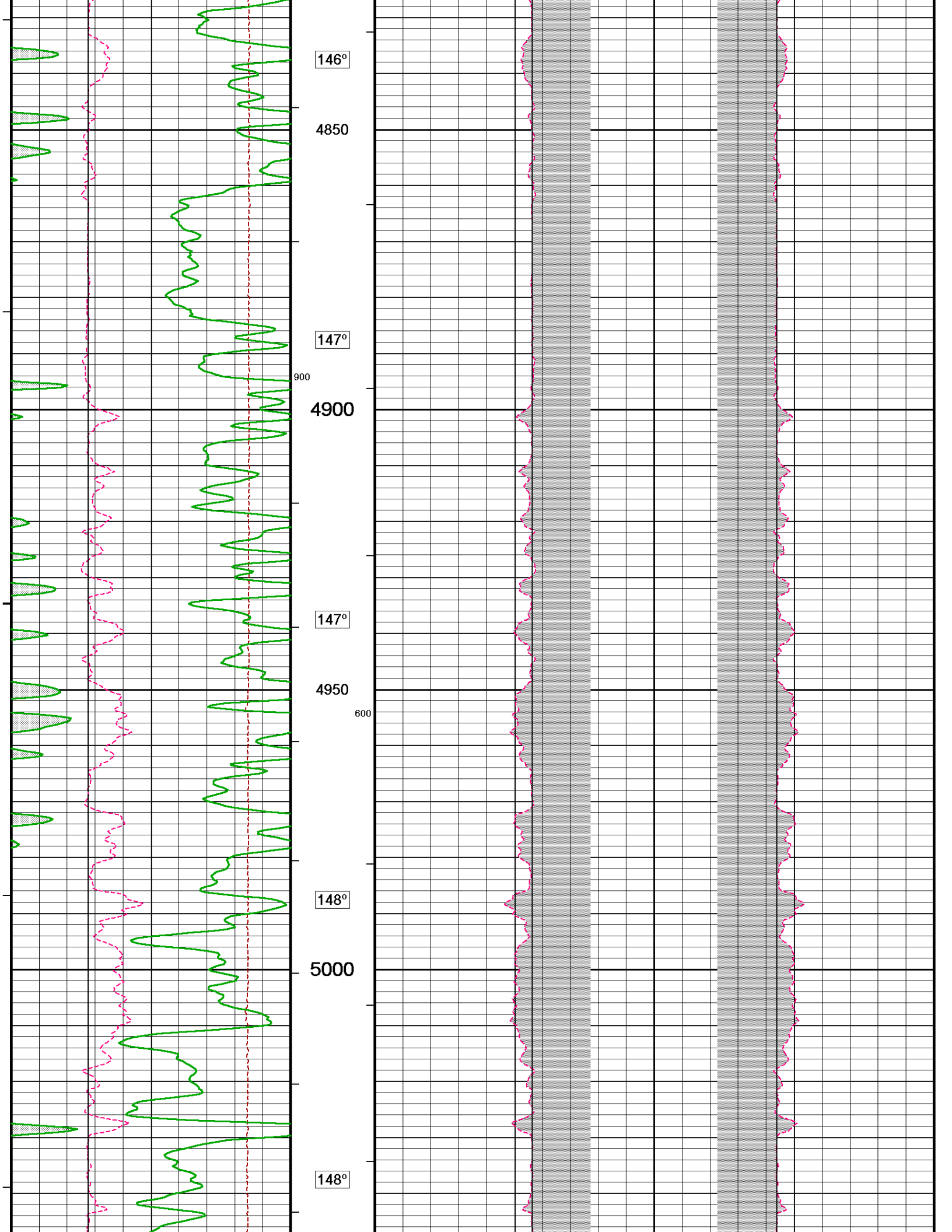


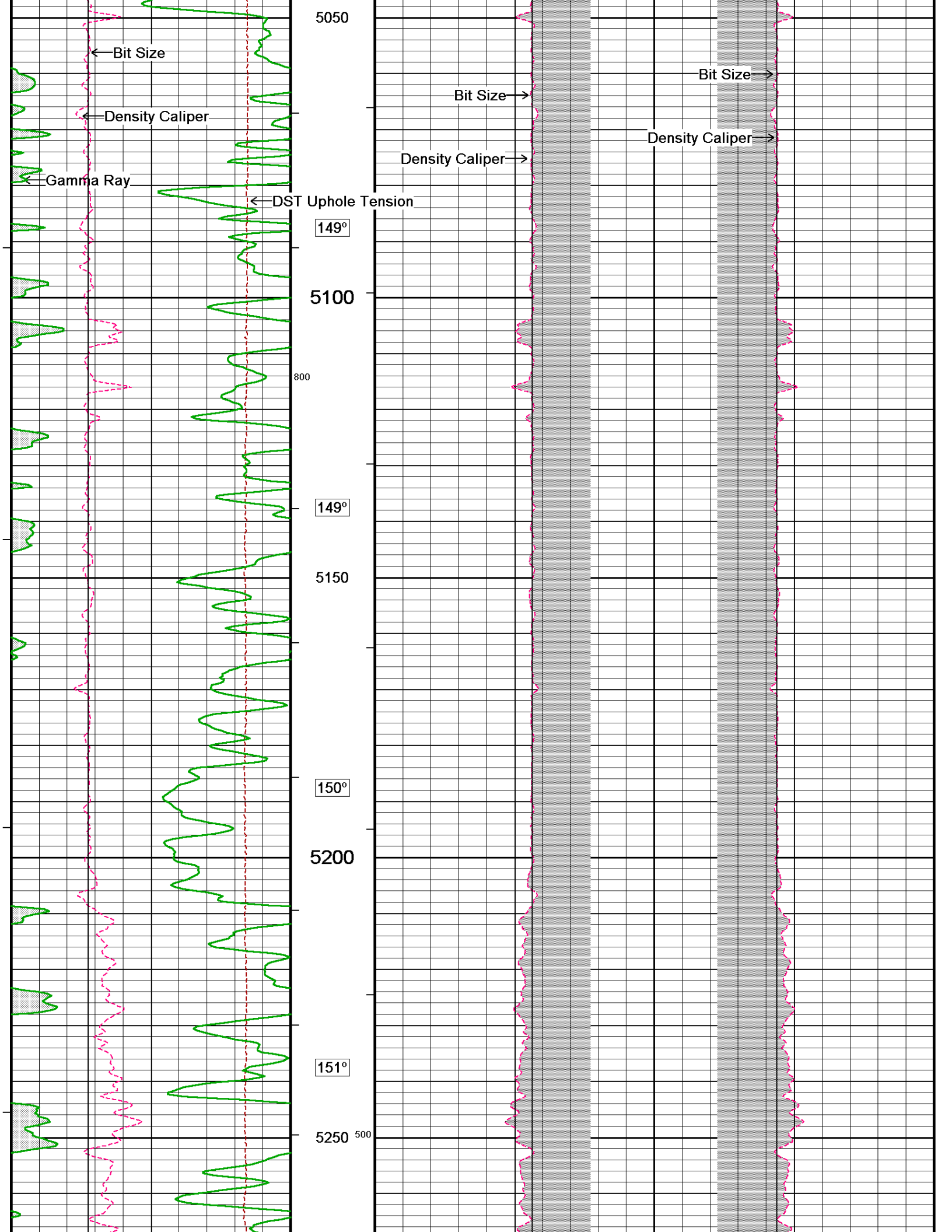


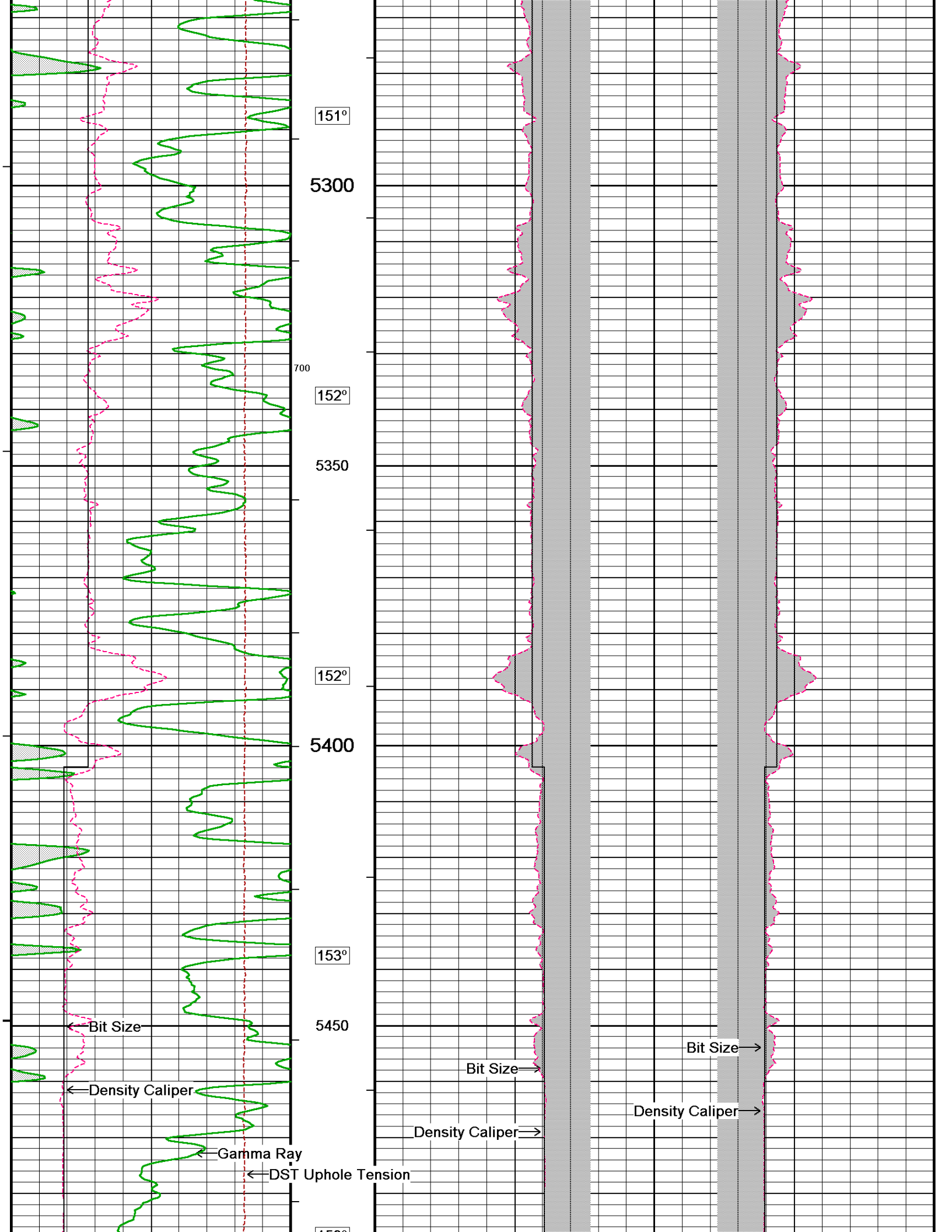


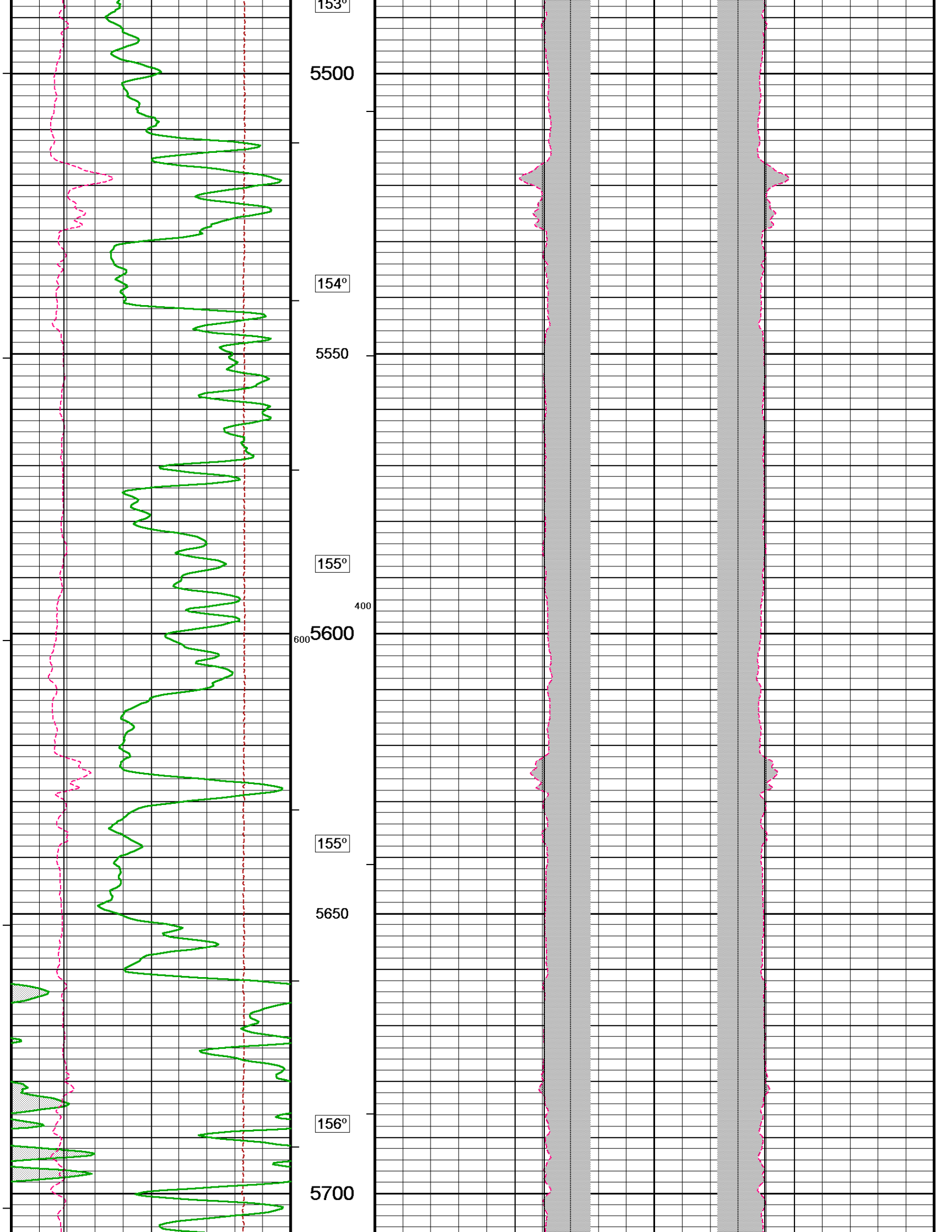


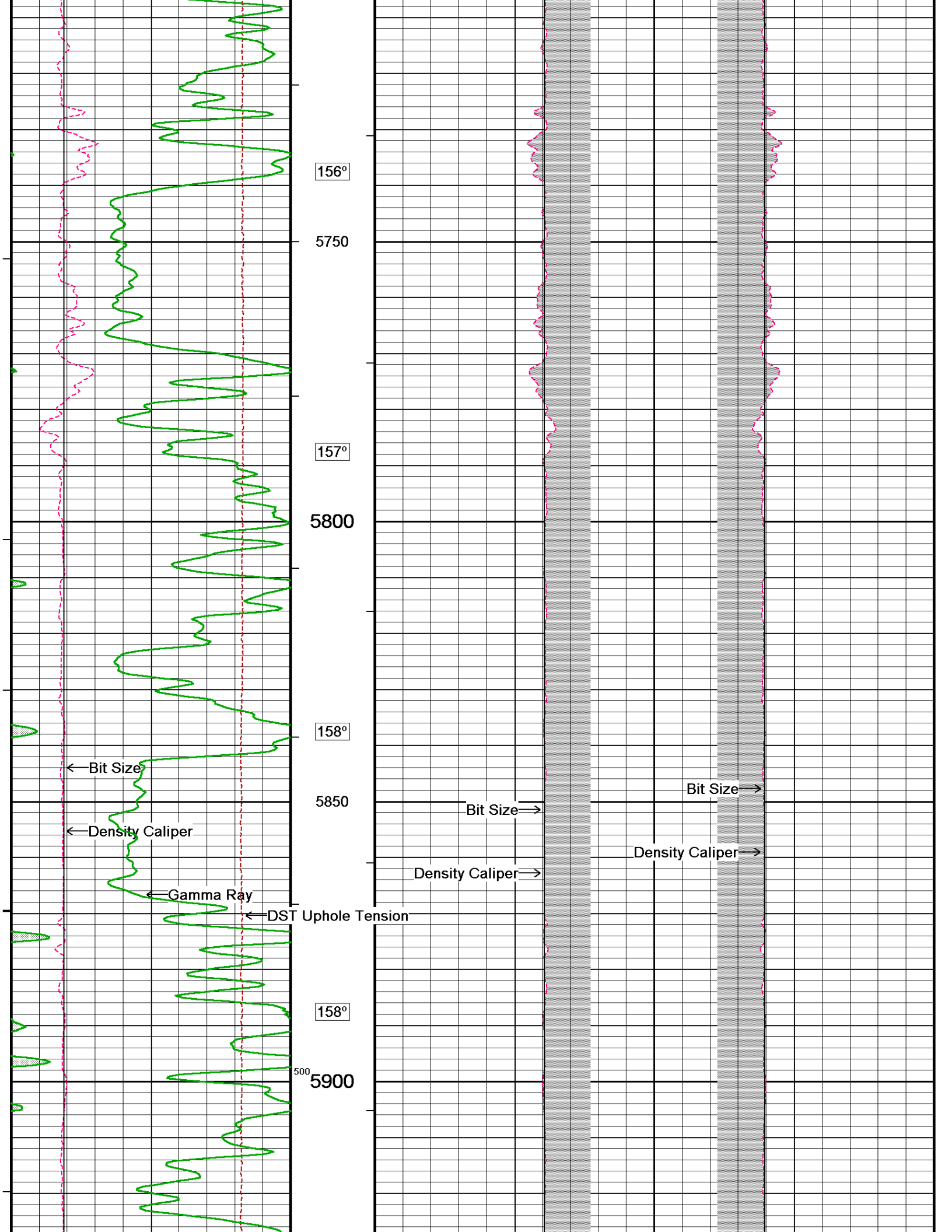


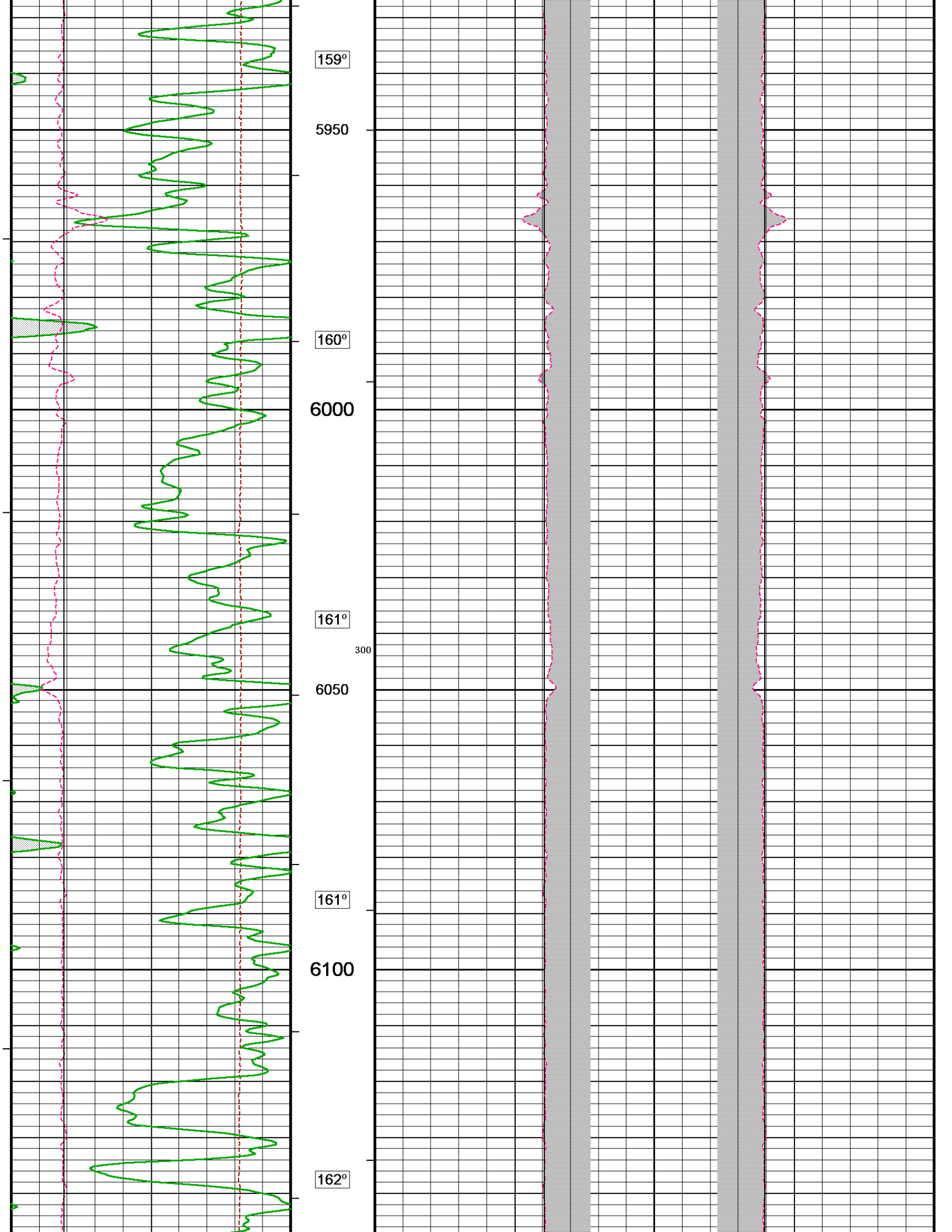


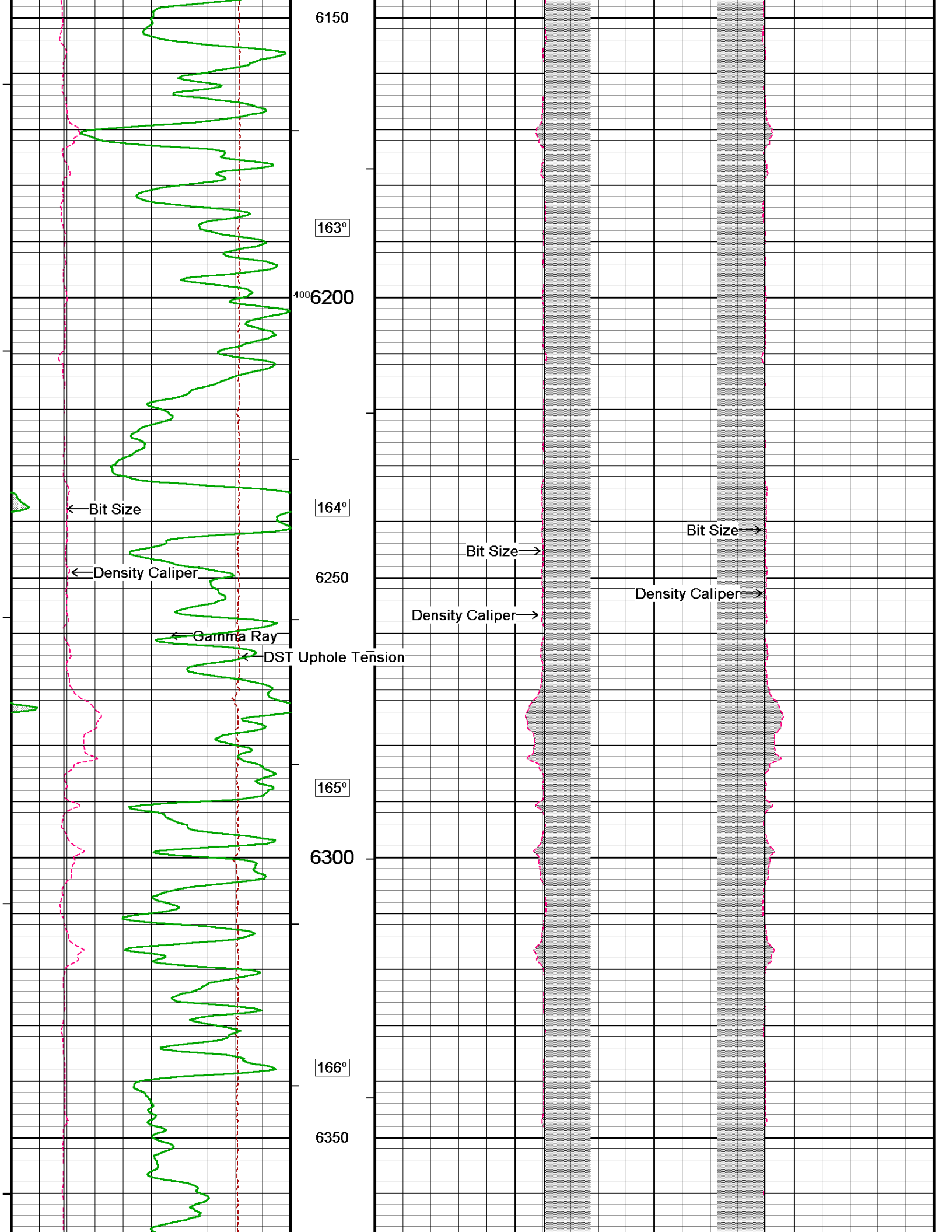


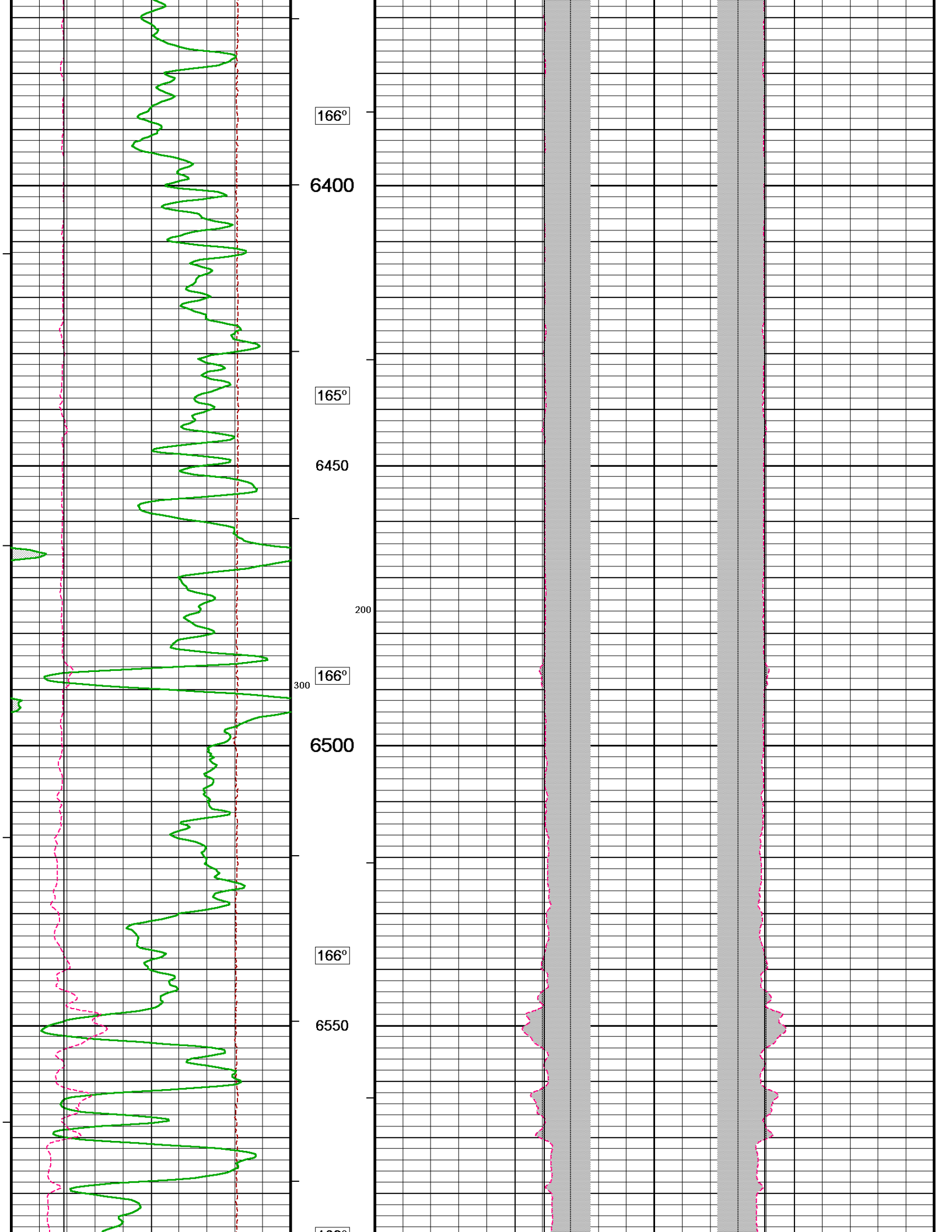


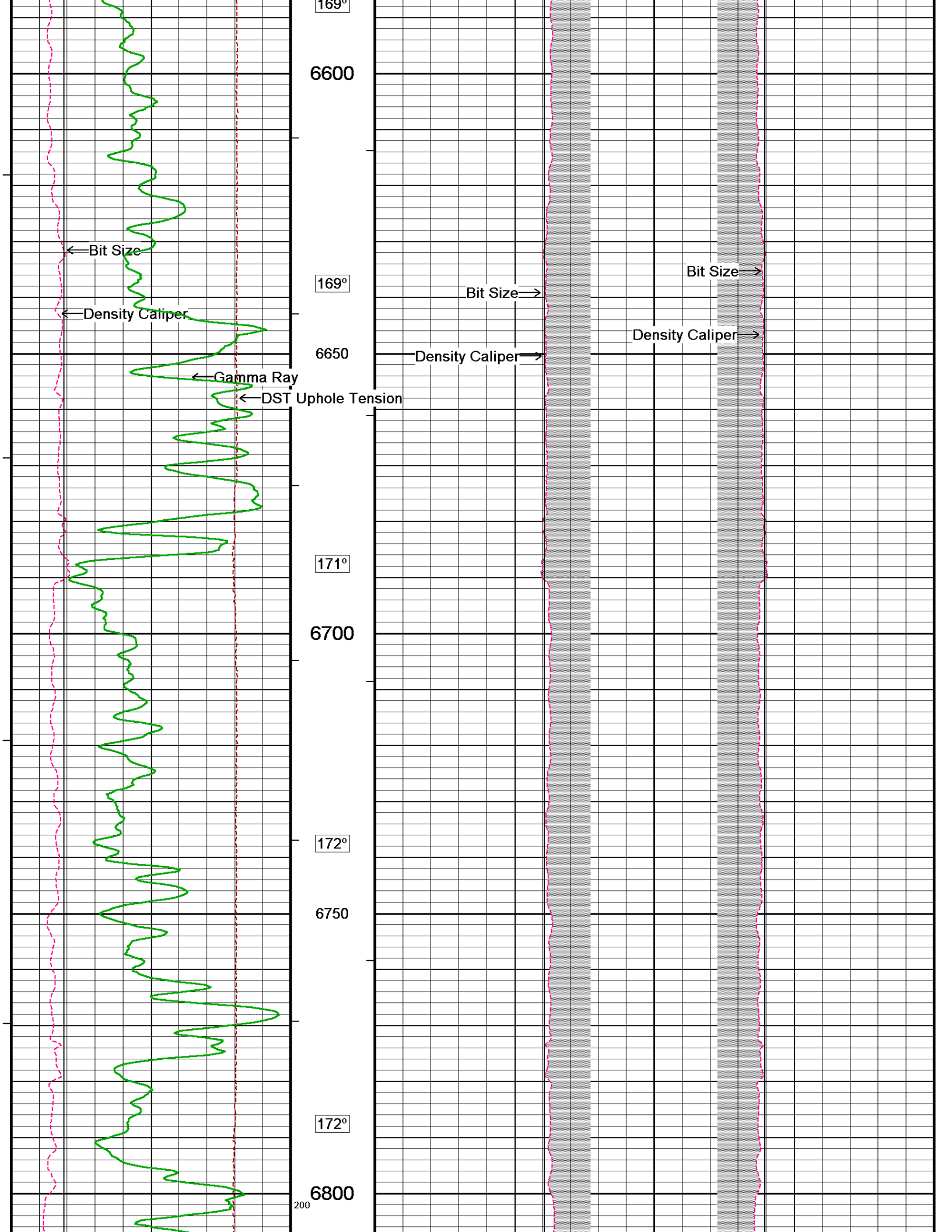


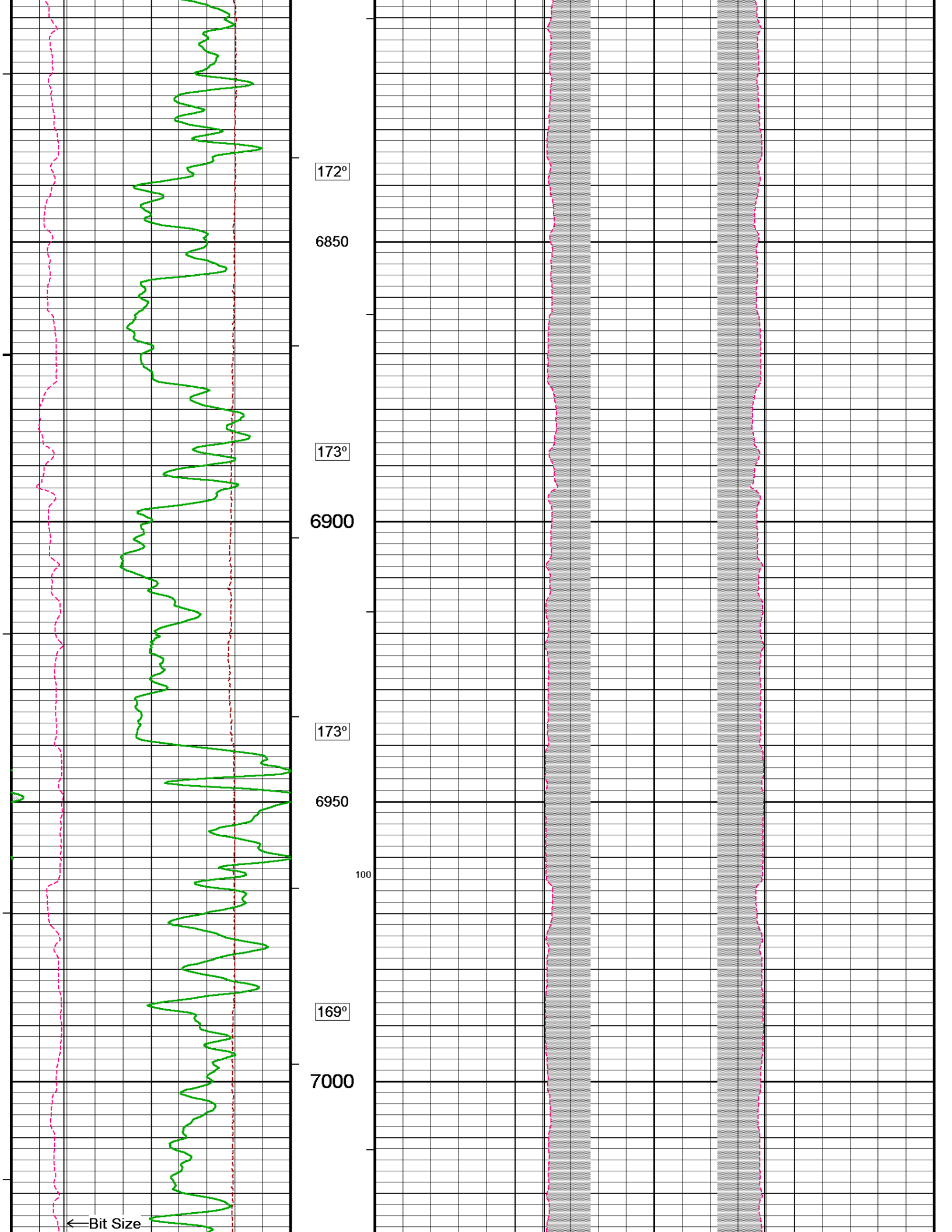












172°

6850

173°

6900

173°

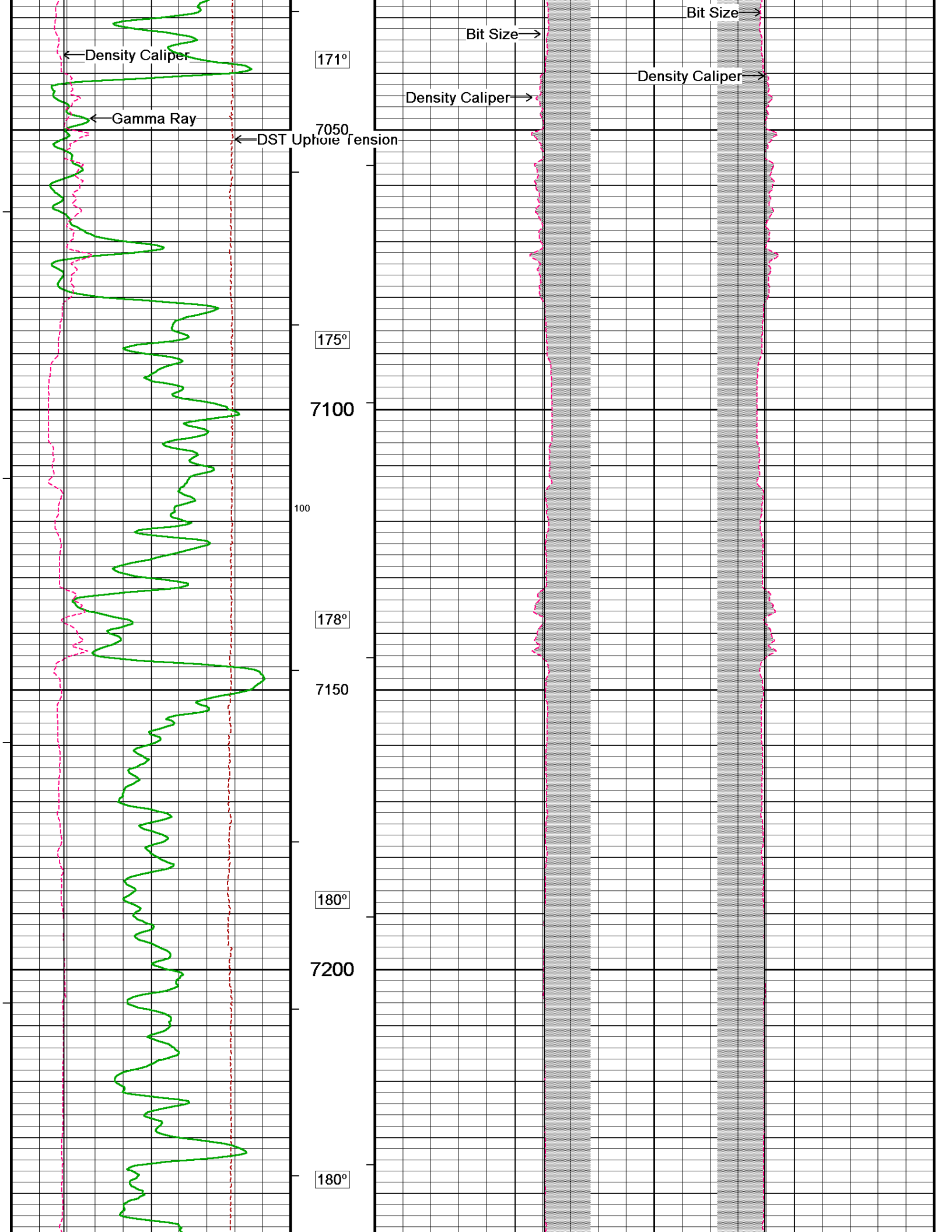
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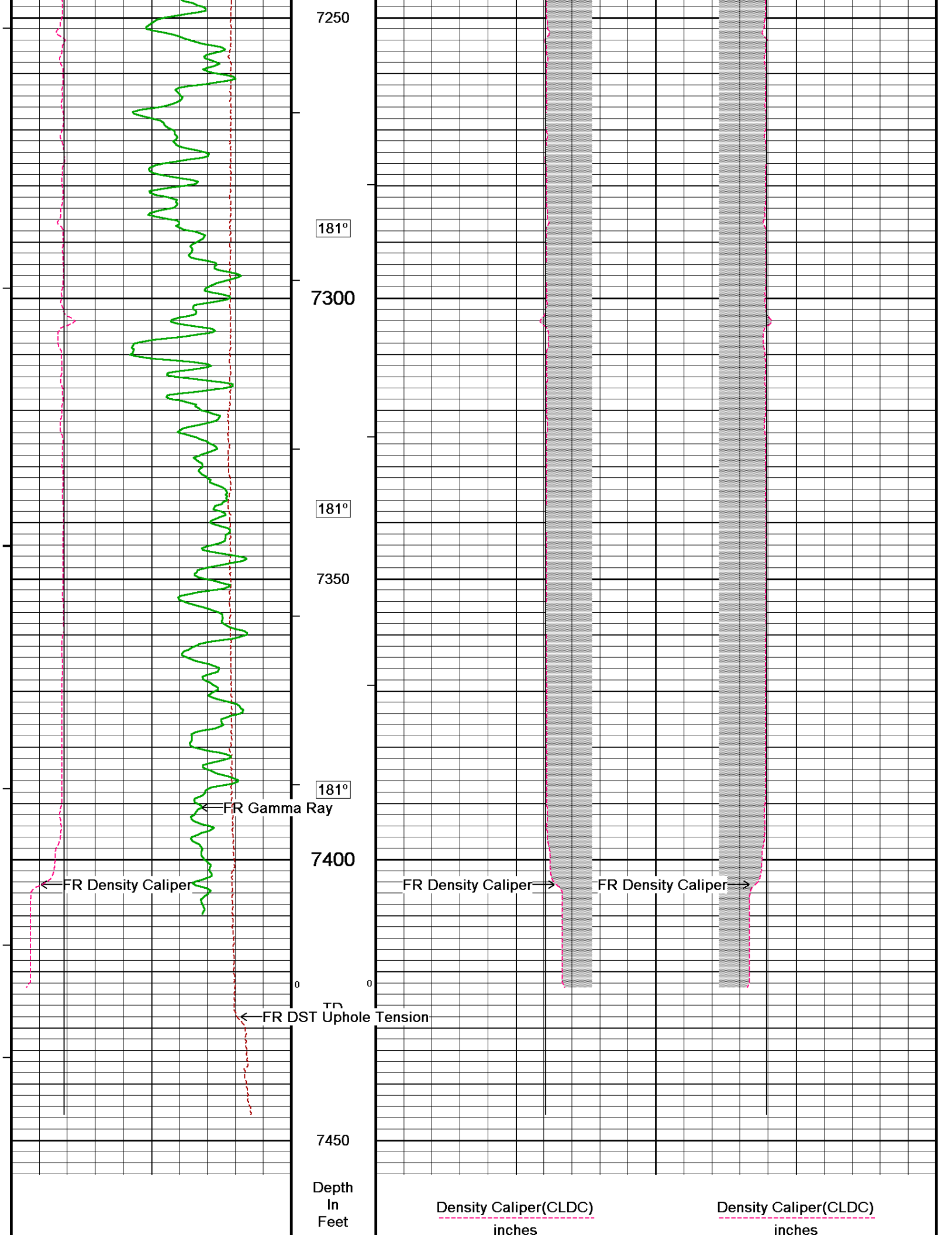
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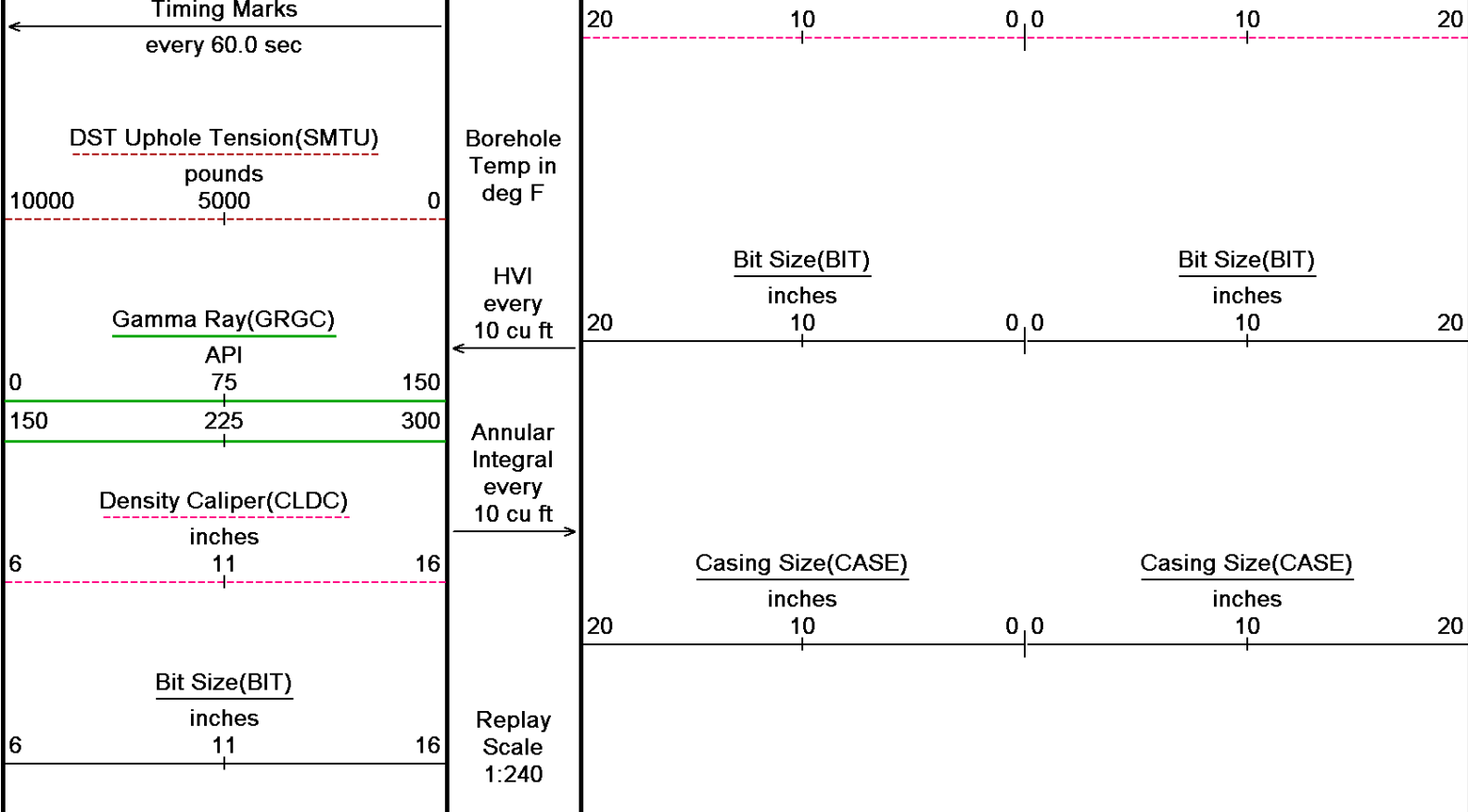
169°

7000

← Bit Size







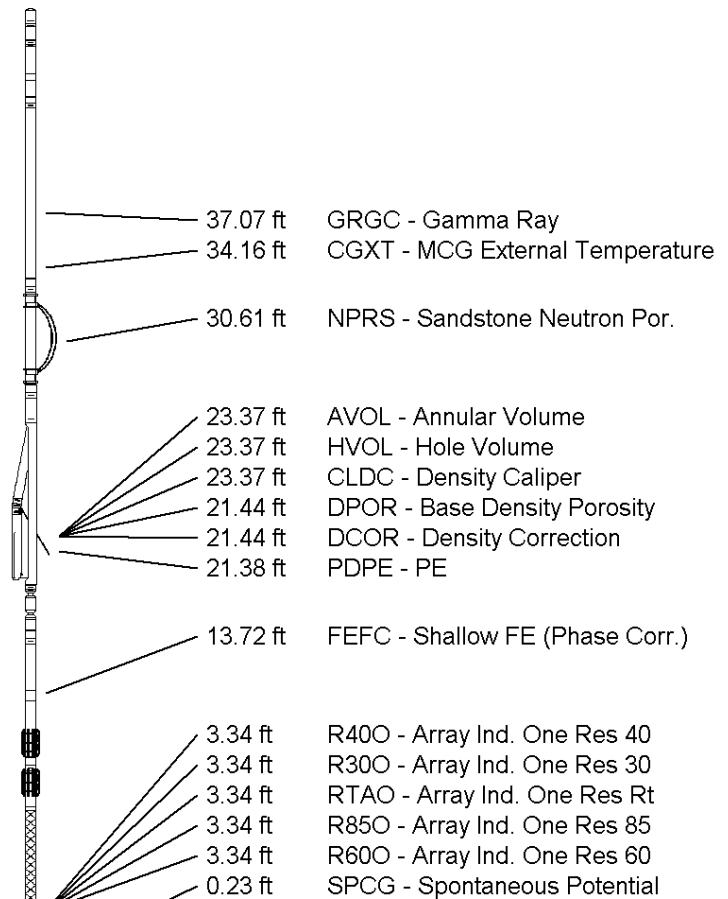
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5 INCH MAIN LOG

DOWNHOLE EQUIPMENT

C:\LOGS\Bill Barrett\Kaufman 31B-24-692\setup4.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
MDN-A.B 160 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in
- Compact Density/Caliper
MPD-C.A 219 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**




 Tool Zero (0.13ft from bottom)
 -0.13 ft SMTU - DST Uphole Tension
 All measurements relative to tool zero.

COMPANY BILL BARRETT CORPORATION
WELL KAUFMAN 31B-24-692
FIELD MAMM CREEK
PROVINCE/COUNTY GARFIELD
COUNTRY/STATE U.S.A. / COLORADO

Elevation Kelly Bushing	5786.00	feet	First Reading	7404.00	
Elevation Drill Floor	5786.00	feet	Depth Driller	7435.00	feet
Elevation Ground Level	5763.00	feet	Depth Logger	7428.00	feet



HOLE VOLUME
CALIPER LOG

