



**PRECISION**  
ENERGY SERVICES

**Compact**

**CEMENT LOG**

**1:200**

COMPANY

ORIGIN ENERGY RESOURCES LIMITED

WELL

CHILDERS COVE 1

FIELD

ONSHORE OTWAY BASIN

PROVINCE/COUNTY

VICTORIA

COUNTRY/STATE

AUSTRALIA

LOCATION

38DEG29'31.96"S 142DEG44'46.66"E

**FINAL PRINT**

LSD

SEC

TWP

RGE

Other Services

API Number

Permit Number PEP 154

Permanent Datum GROUND LEVEL, Elevation 46.2 metres

Log Measured From R. T. @ 5.3 METRE above Permanent Datum

Drilling Measured From R. T.

Elevations:  
KB 51.50 metres  
DF metres  
GL 46.20 metres

Date 03-Oct-2005

01-Oct-2005

Run Number

TWO

ONE

Depth Driller

2658.00

metres

2545.00

metres

Depth Logger

2656.80

metres

2529.00

metres

First Reading

2656.80

metres

2528.15

metres

Last Reading

2400.00

metres

0.00

metres

Casing Driller

544.50

metres

544.50

metres

Casing Logger

544.20

metres

544.20

metres

Bit Size

8.50

inches

8.50

inches

Hole Fluid Type

KCL/PHPA/POL

KCL/PHPA/POL

Density / Viscosity

1.16 g/cc3

58.00 CP

1.15 g/cc3

59.00 CP

PH / Fluid Loss

8.00

5.00

8.60

4.00

Sample Source

FLOWLINE

FLOWLINE

Rm @ Measured Temp

0.18 @ 25.0

ohm-m

0.65 @ 13.9

ohm-m

Rmf @ Measured Temp

0.20 @ 25.0

ohm-m

1.06 @ 13.9

ohm-m

Rmc @ Measured Temp

0.13 @ 25.0

ohm-m

0.53 @ 14.1

ohm-m

Source Rmf / Rmc

FILTER

PRESS

FILTER

PRESS

Rm @ BHT

0.07 @ 93.5

ohm-m

0.09 @ 95.5

ohm-m

Time Since Circulation

11.8 HOURS

18 HOURS

Max Recorded Temp

93.50

deg C

95.50

deg C

Equipment Name

COMPACT

deg C

COMPACT

deg C

Equipment / Base

8

SALE

8

SALE

Recorded By

BEN MOSS

Witnessed By

JOHN HOBDAV

CIRC. STOP

13:00 3/10

00:00 1/10

**BOREHOLE RECORD**

Bit Size  
inches

8.500

Depth From  
metres

544.50

Depth To  
metres

2658.00

**CASING RECORD**

Type

K-55

Size  
inches

9.625

Depth From  
metres

0.00

Shoe Depth  
metres

544.50

Weight  
pounds/ft

36.00

**REMARKS**

- 1) SOFTWARE ISSUE: JUN 17, 2004.
- 2) CUSTOMER SCALES AND INTERVALS LOGGED.
- 3) HFS, MMR, MLE, MUG, MSS, SKJ, MPD,MDN, MCG, MBE RAN IN COMBINATION.
- 4) HARDWARE: MMR: ONE 25.4MM STANDOFF  
MSS: TWO 25.4MM STANDOFF  
MUG: ONE 25.4MM STANDOFF  
MBE: ONE 25.4MM STANDOFF
- 5) SERVICE ORDER: 2071
- 6) RIG:CENTURY 7
- 7) TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 79.7 CU.M.
- 8) TOTAL ANNULAR VOLUME WITH 7 INCH CASING = 27.7 CU.M.
- 9) SONIC CASING SIGNAL AT 500.5 M.

PRINTS: 1 FIELD 3 FINALS

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.

Depth Based Data - Maximum Sampling Increment 10.0cm

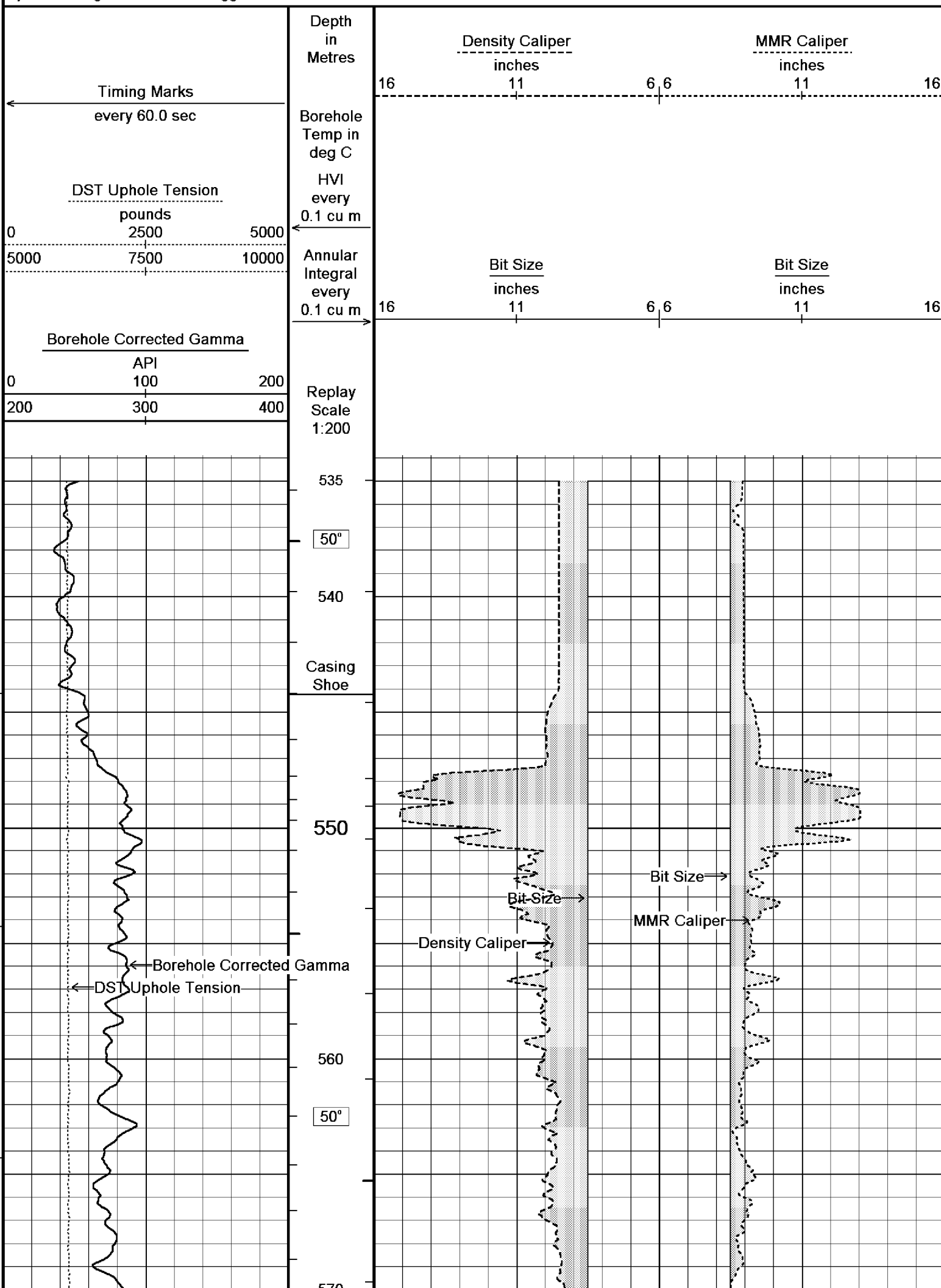
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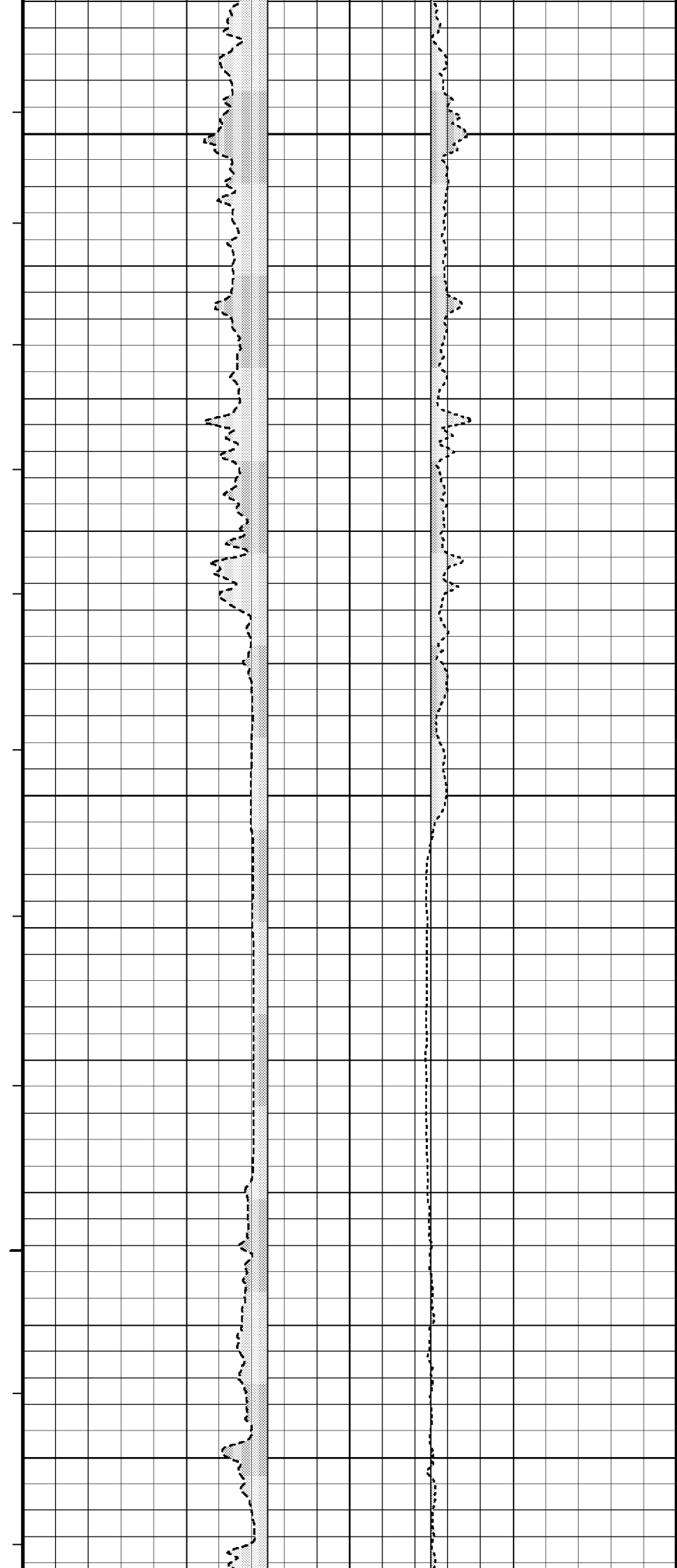
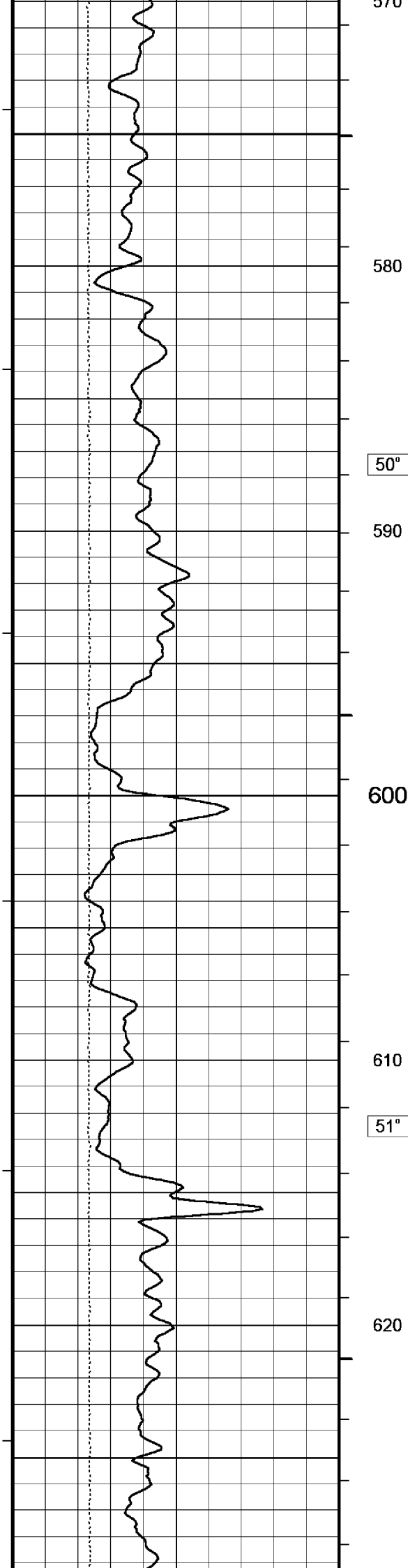
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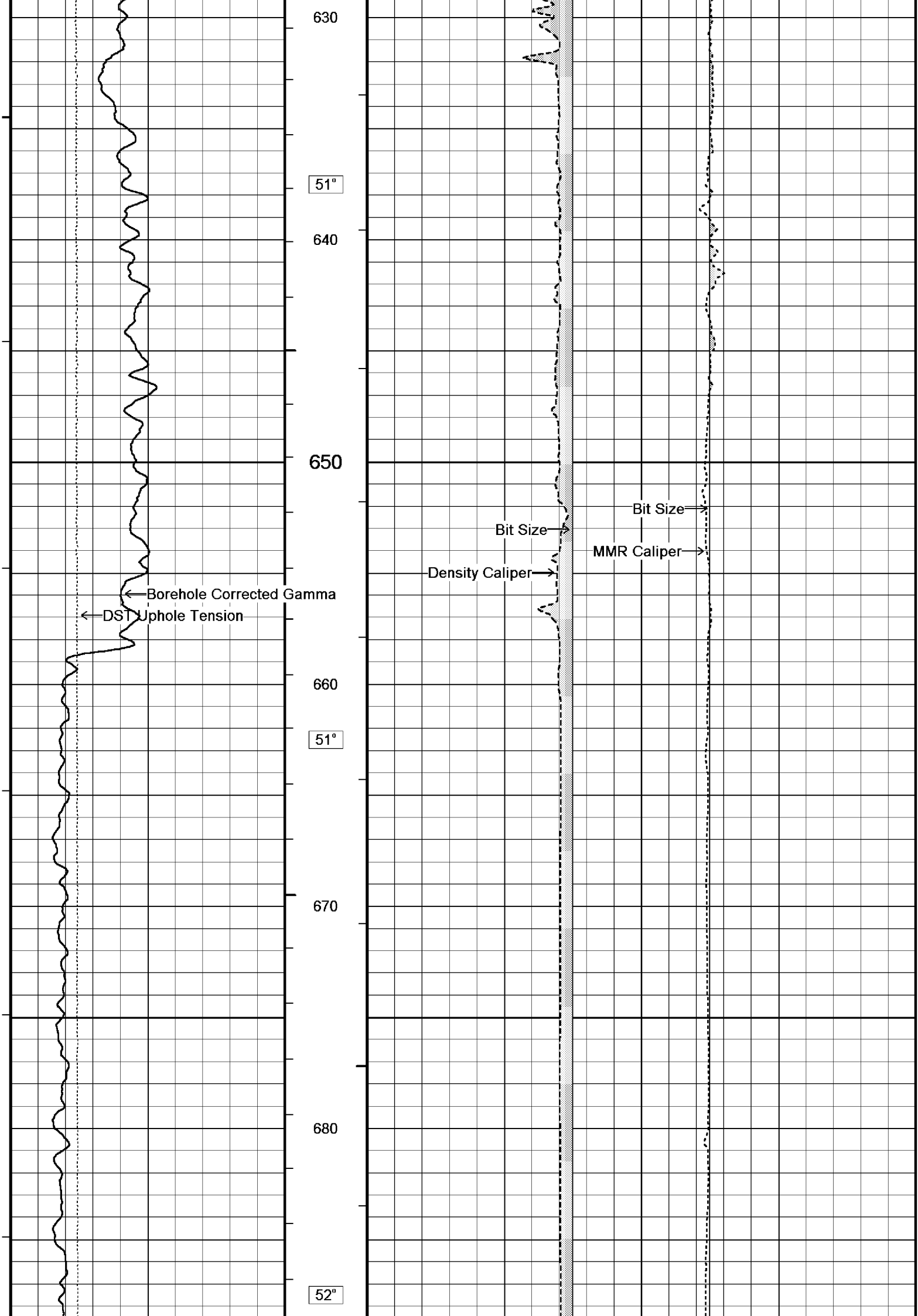
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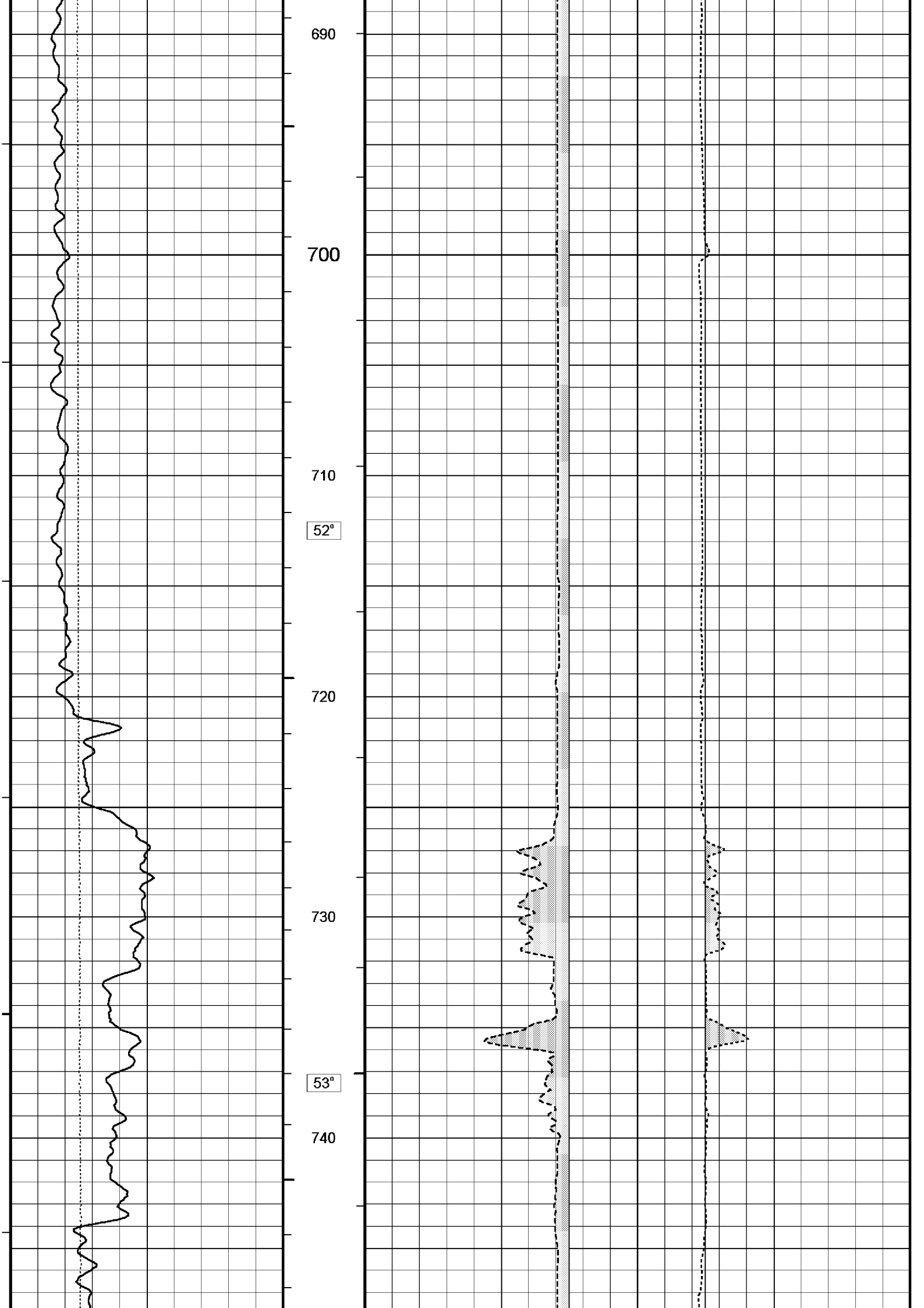
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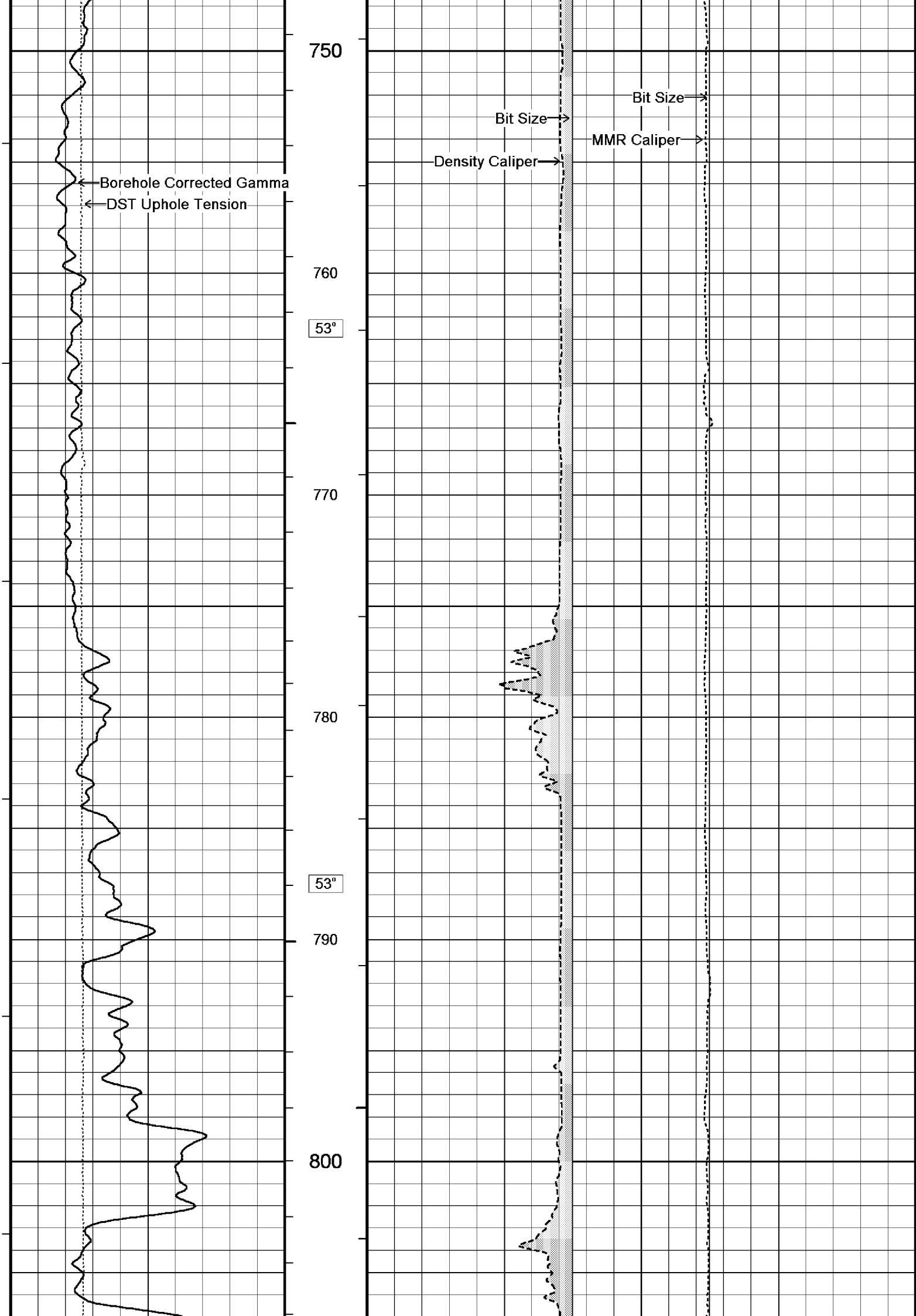
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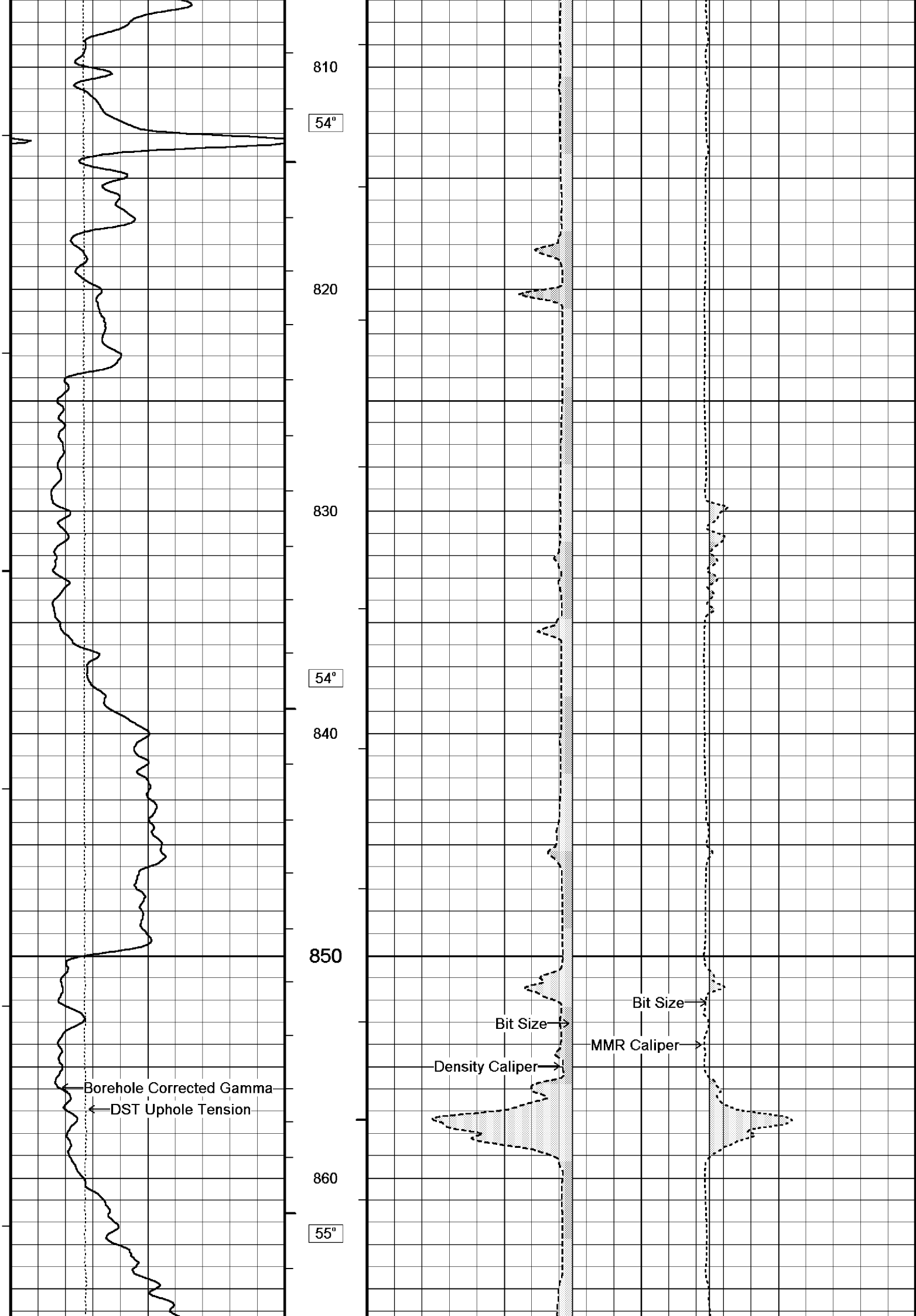


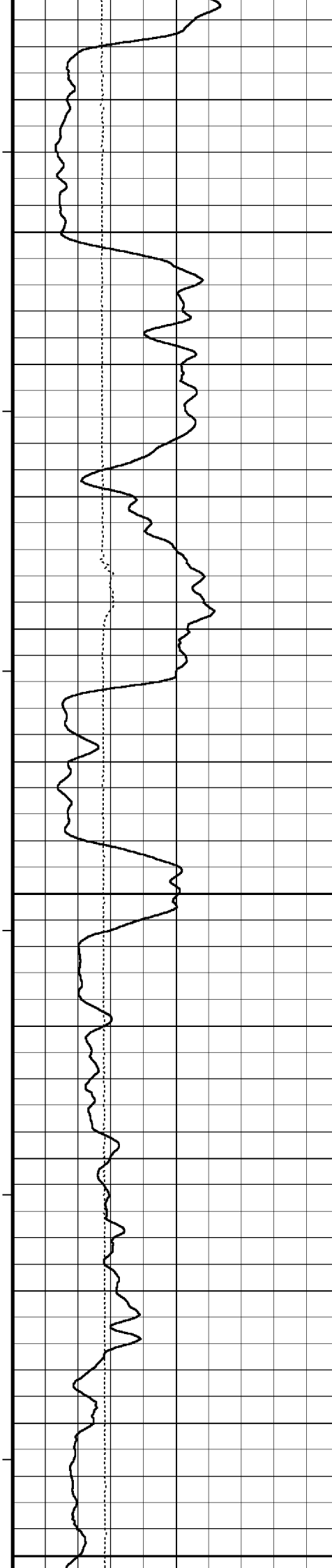












870

880

55°

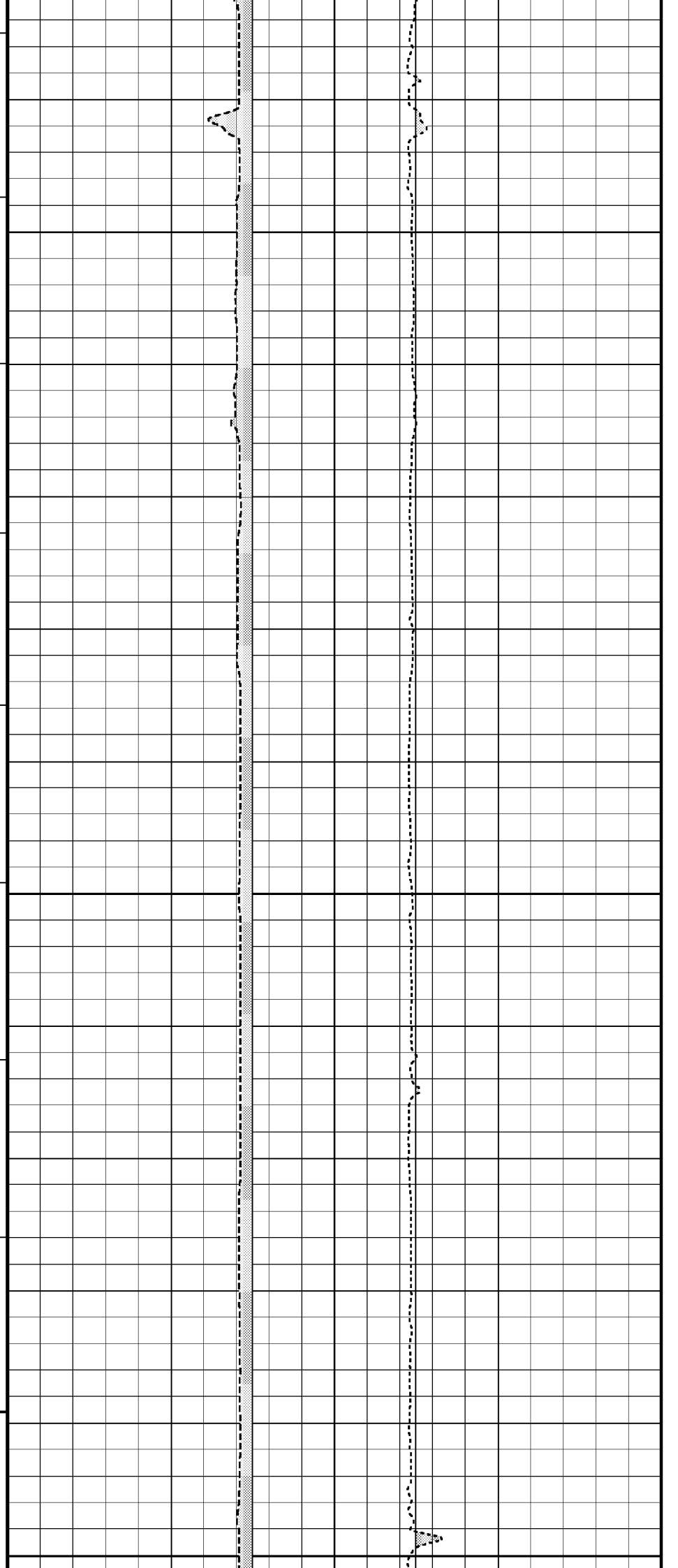
890

900

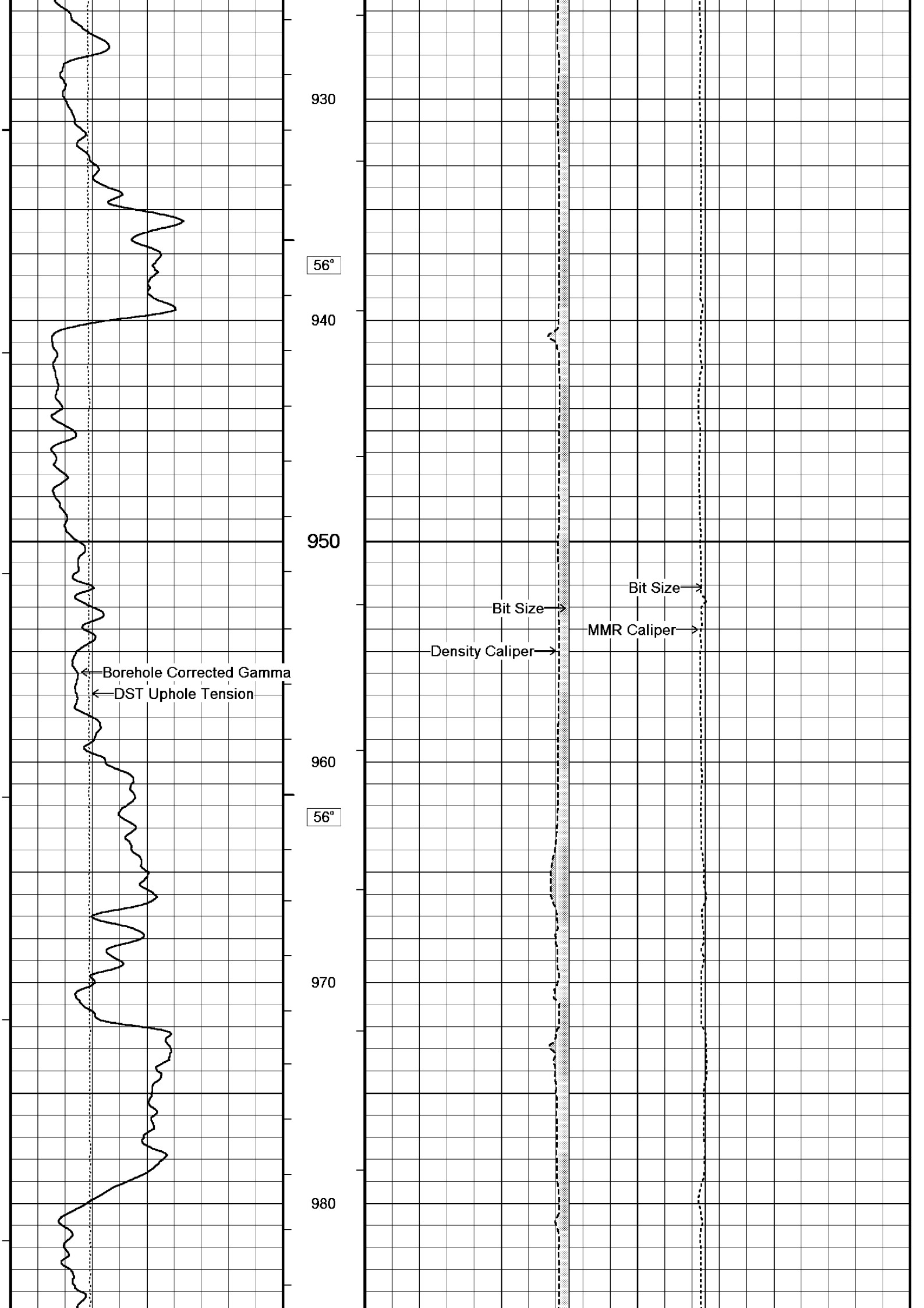
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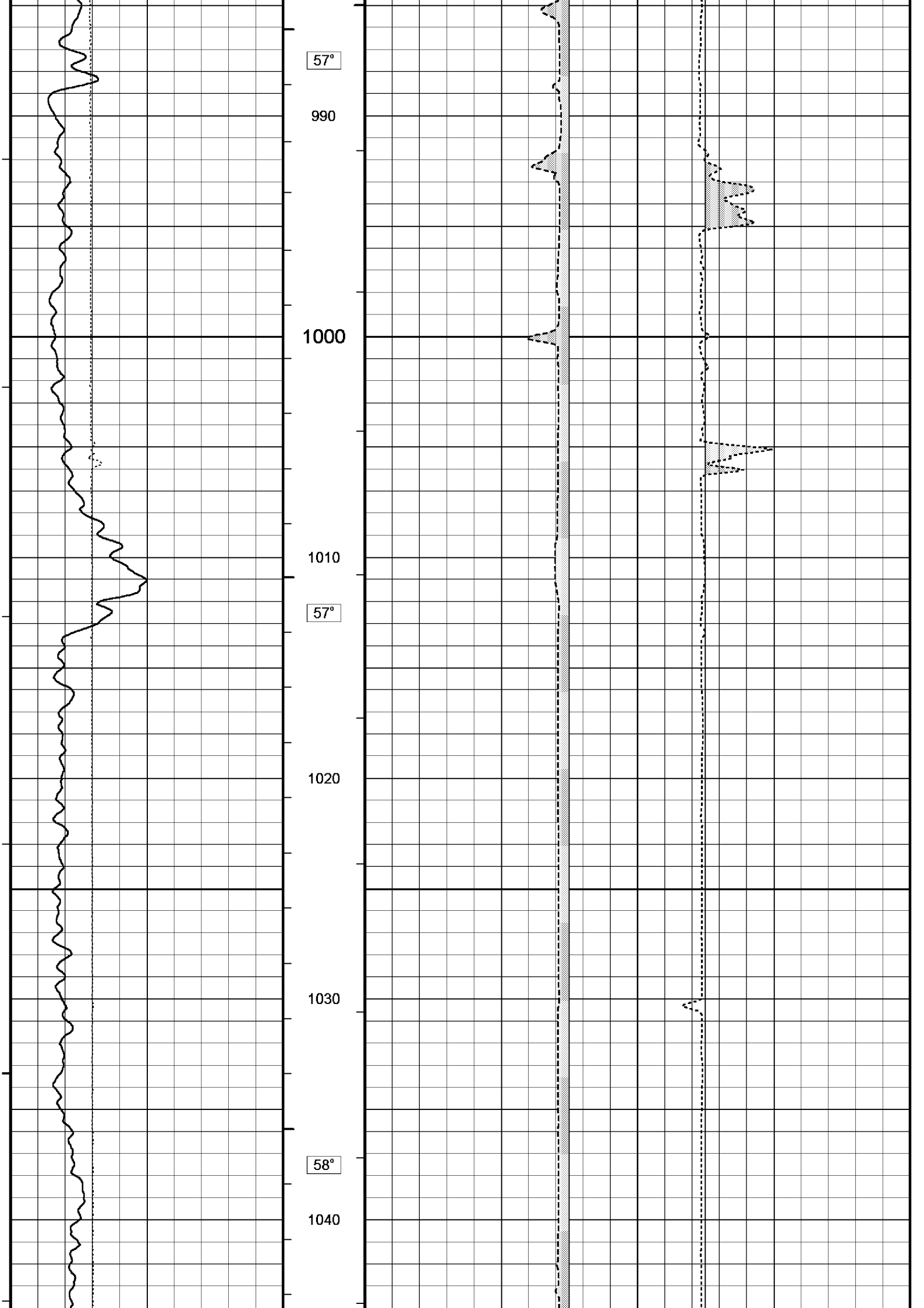
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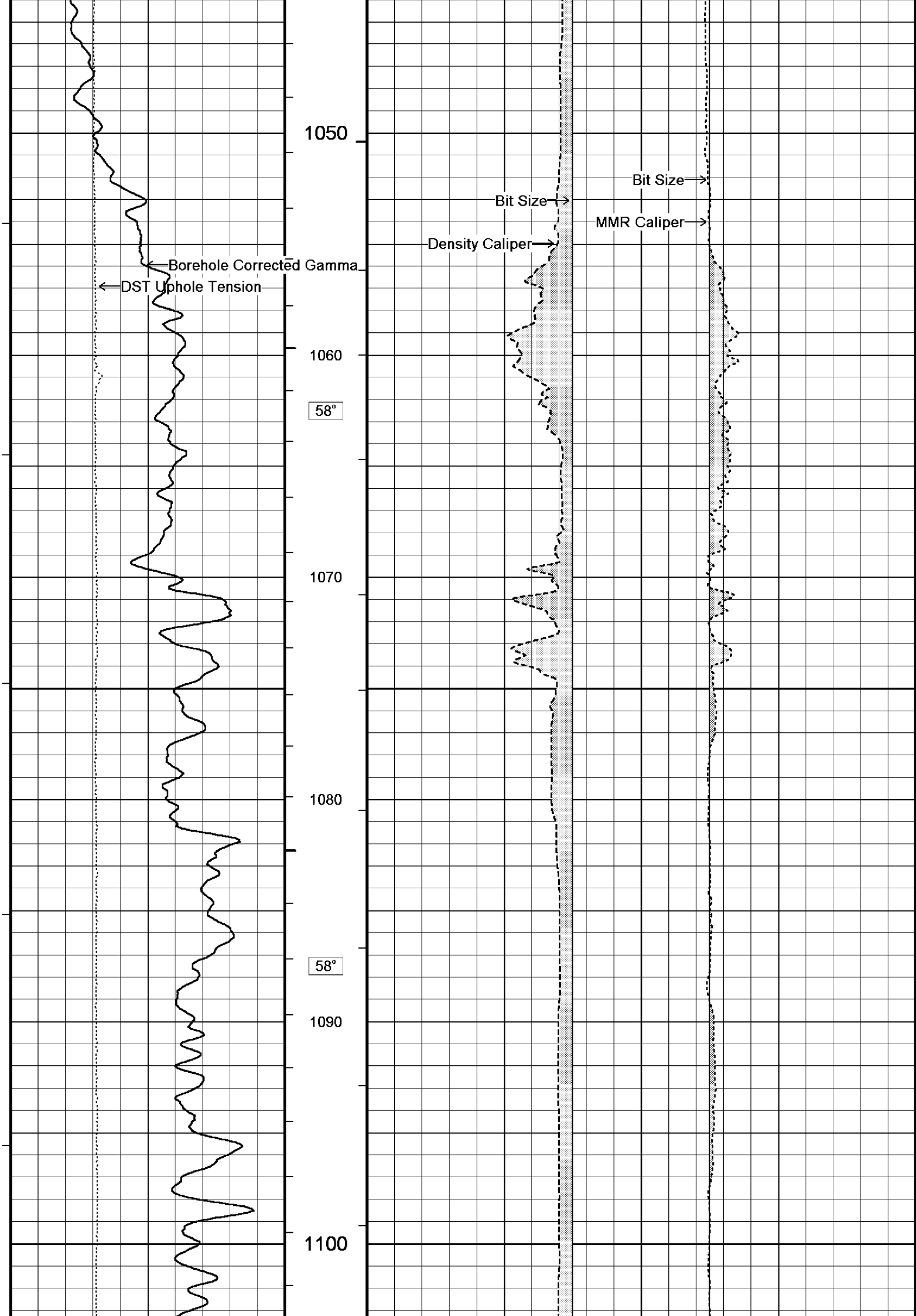
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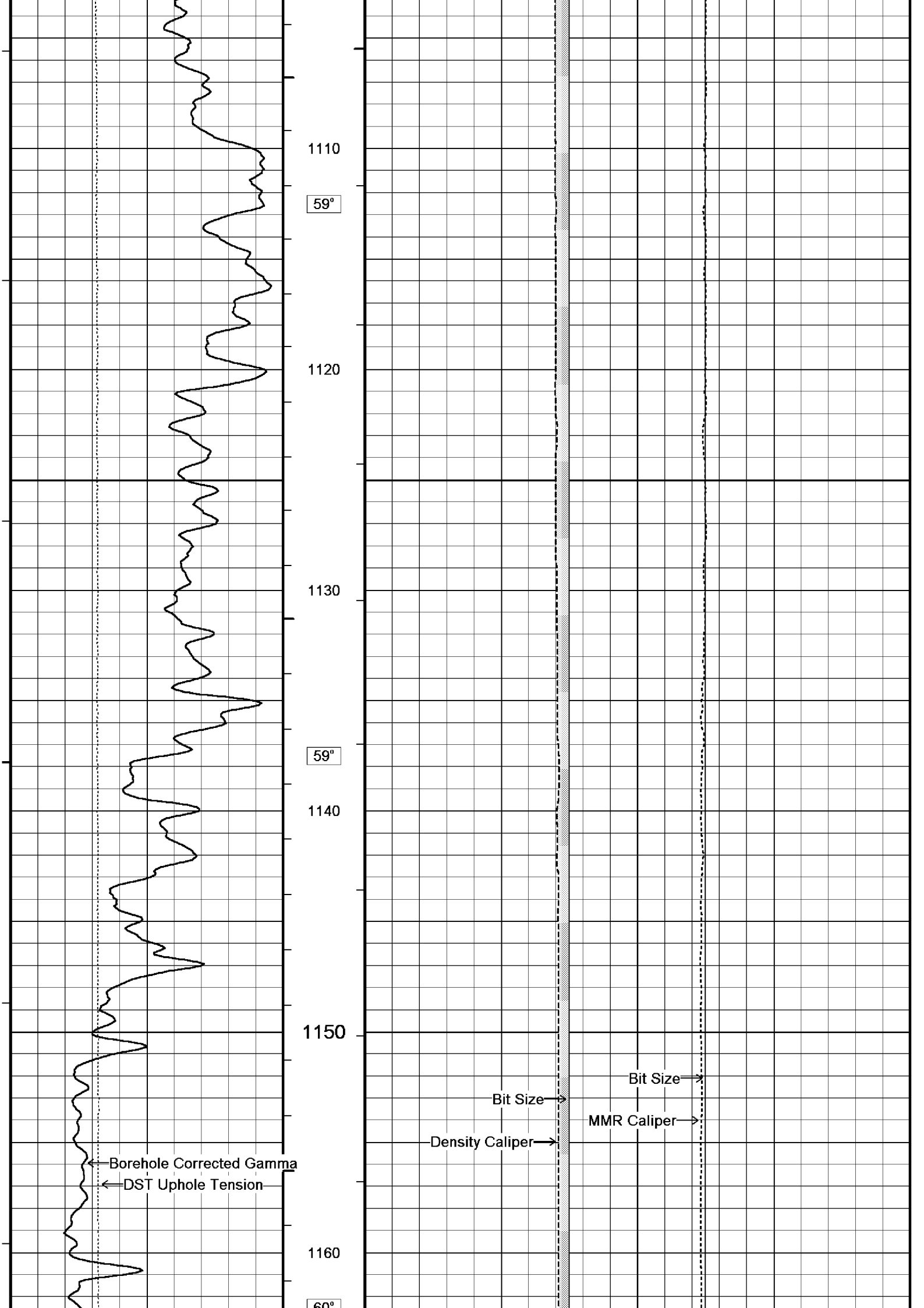


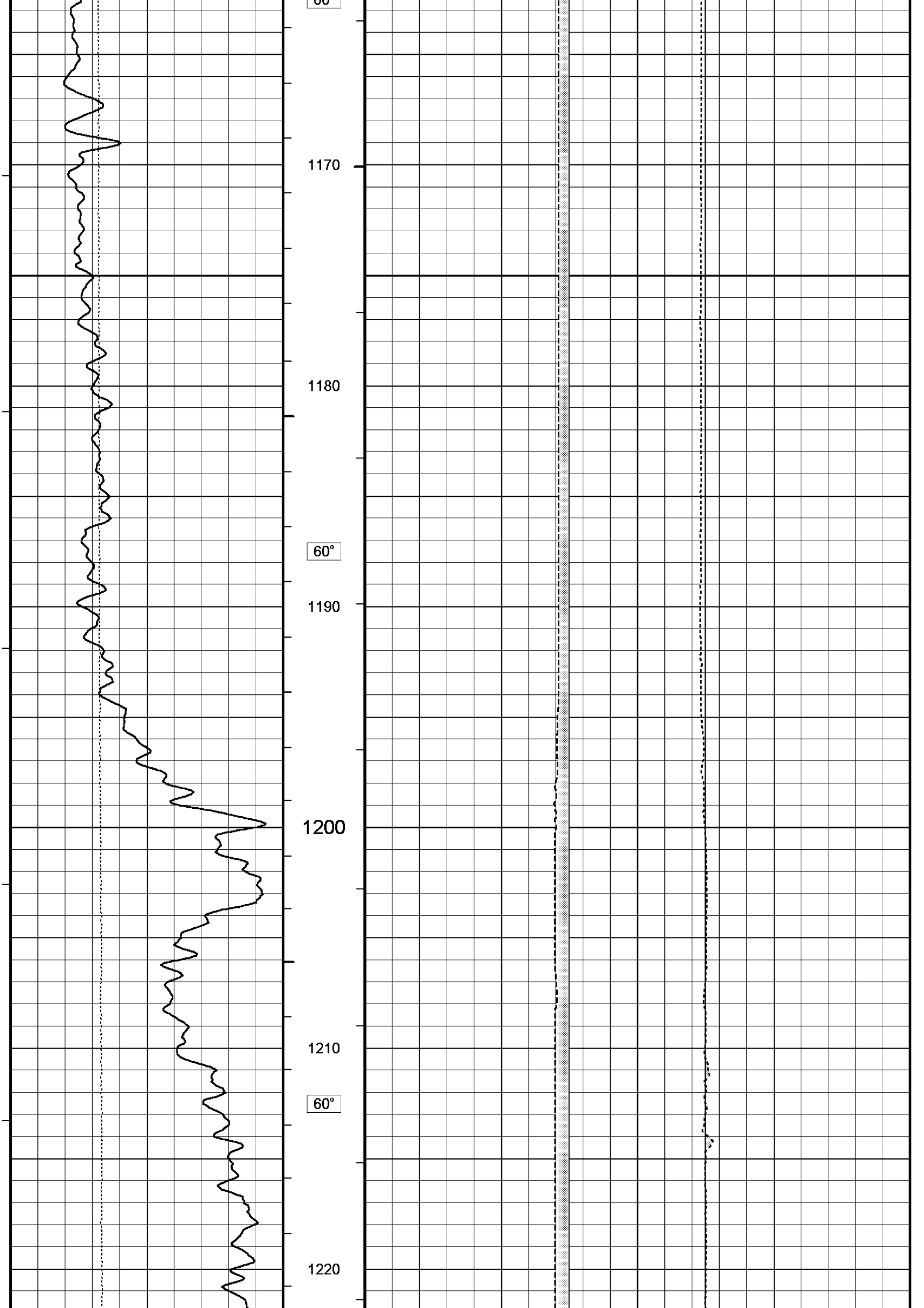


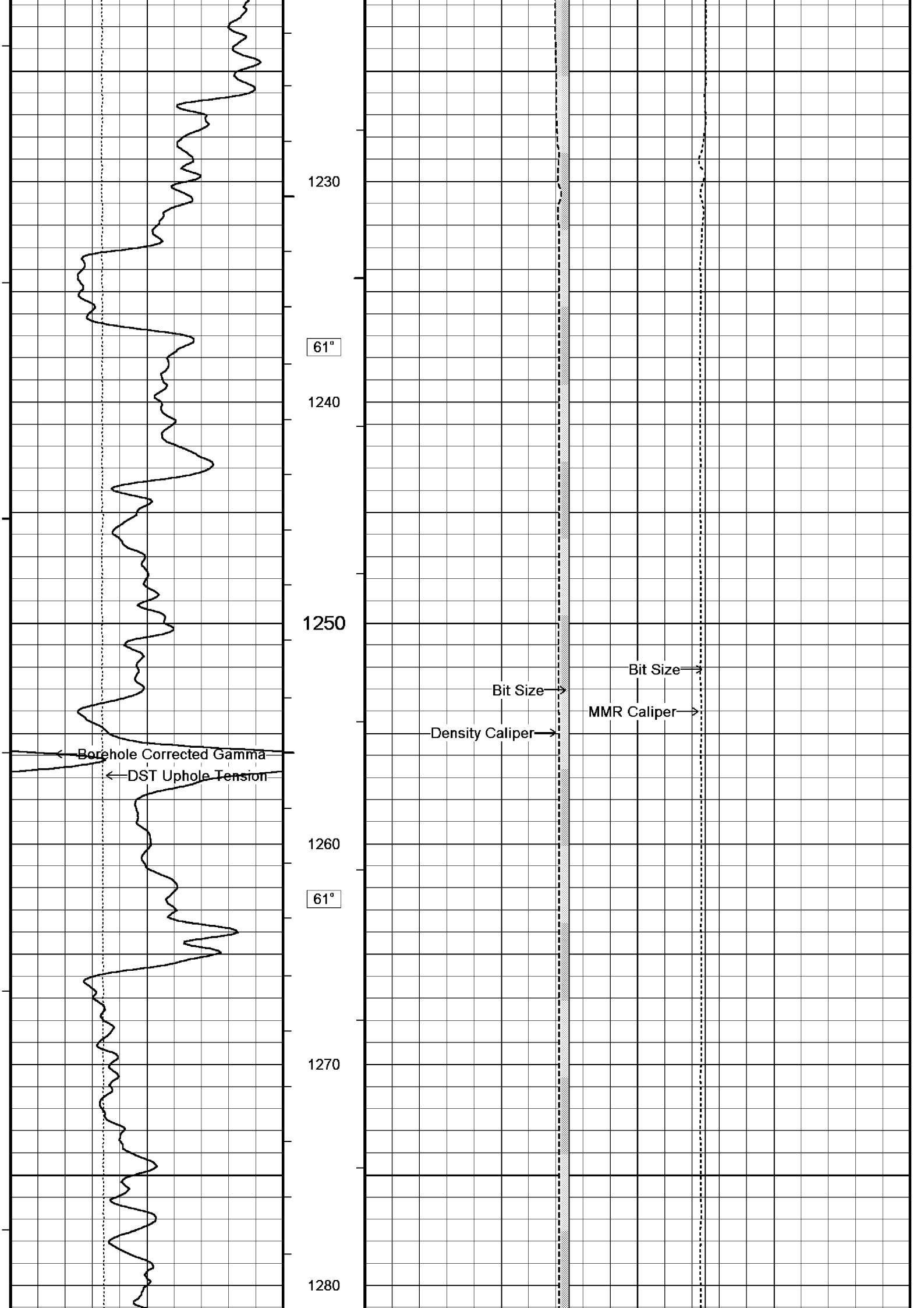


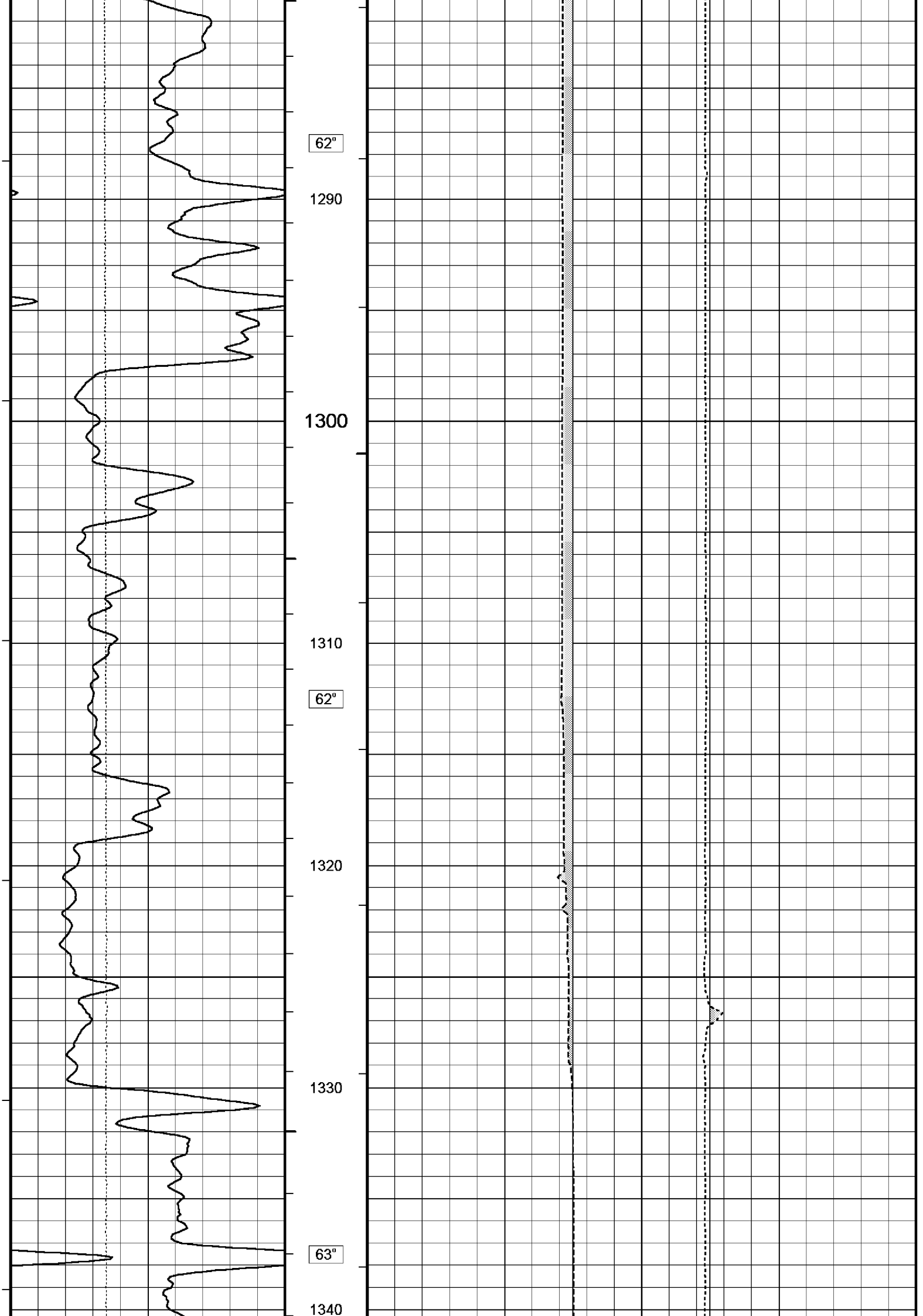


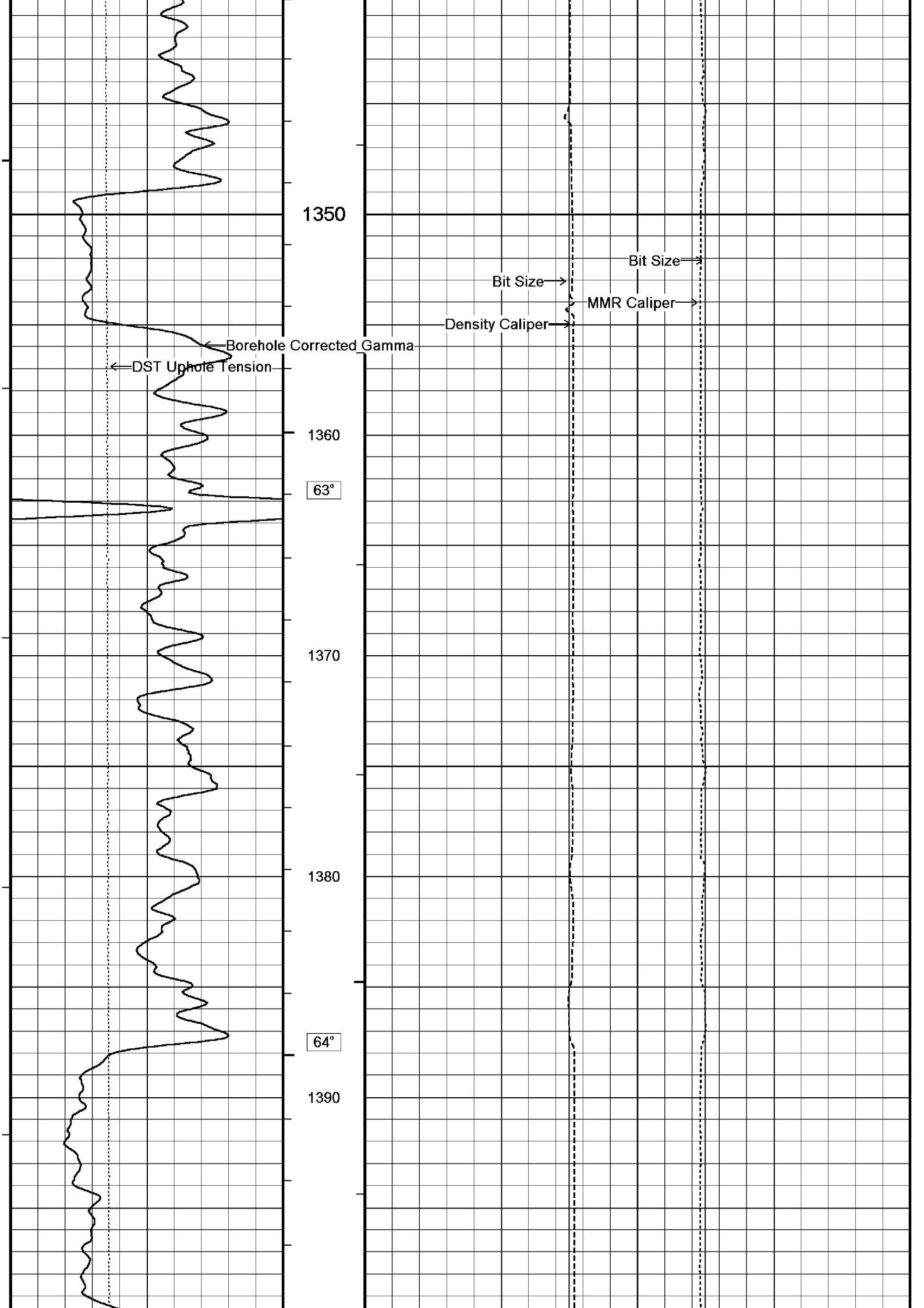




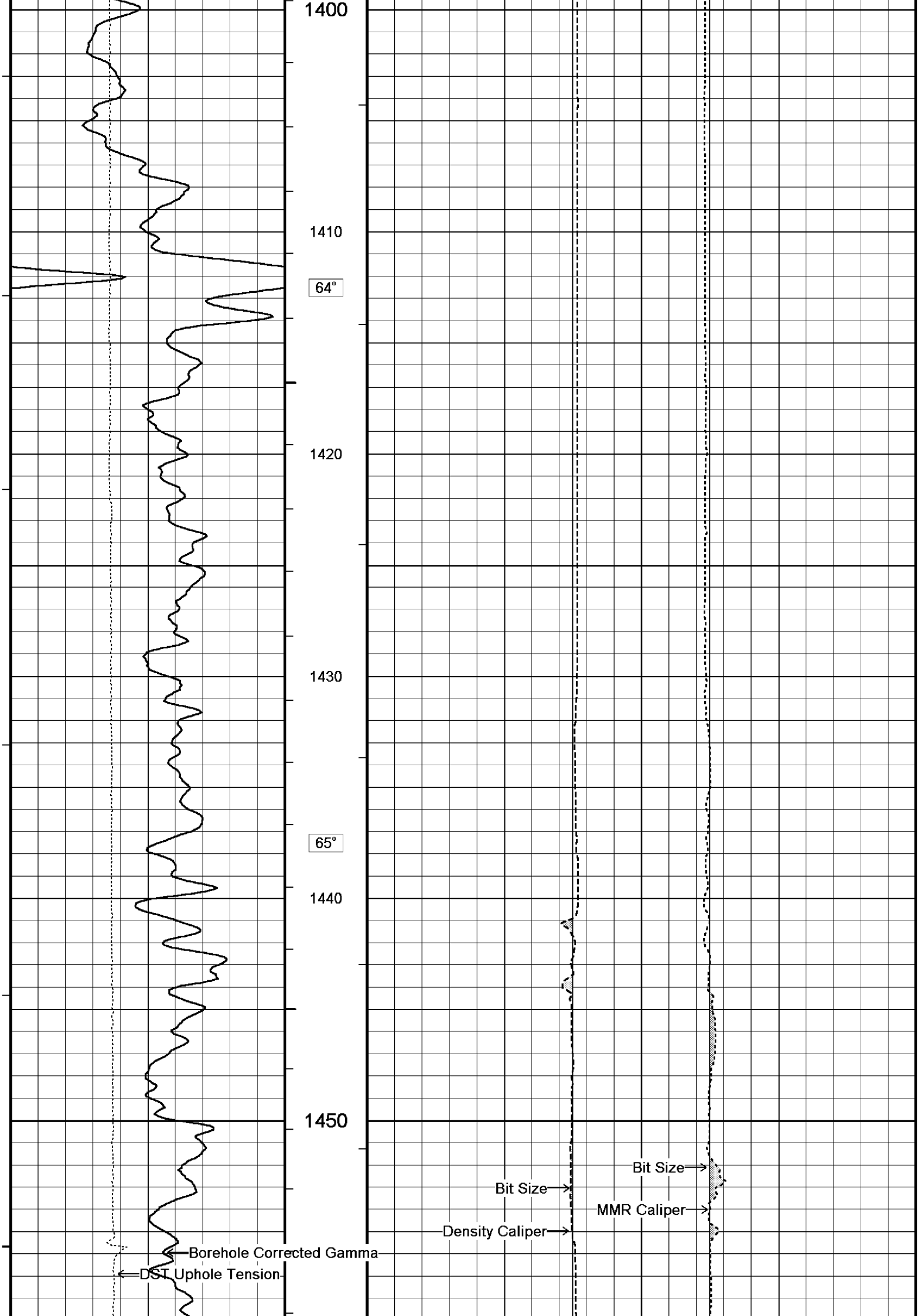


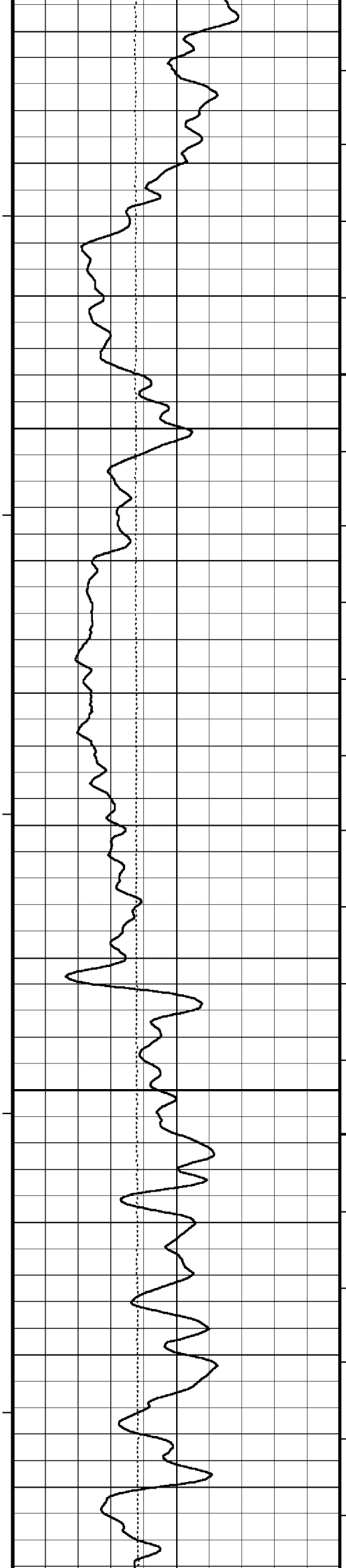












1460

66"

1470

1480

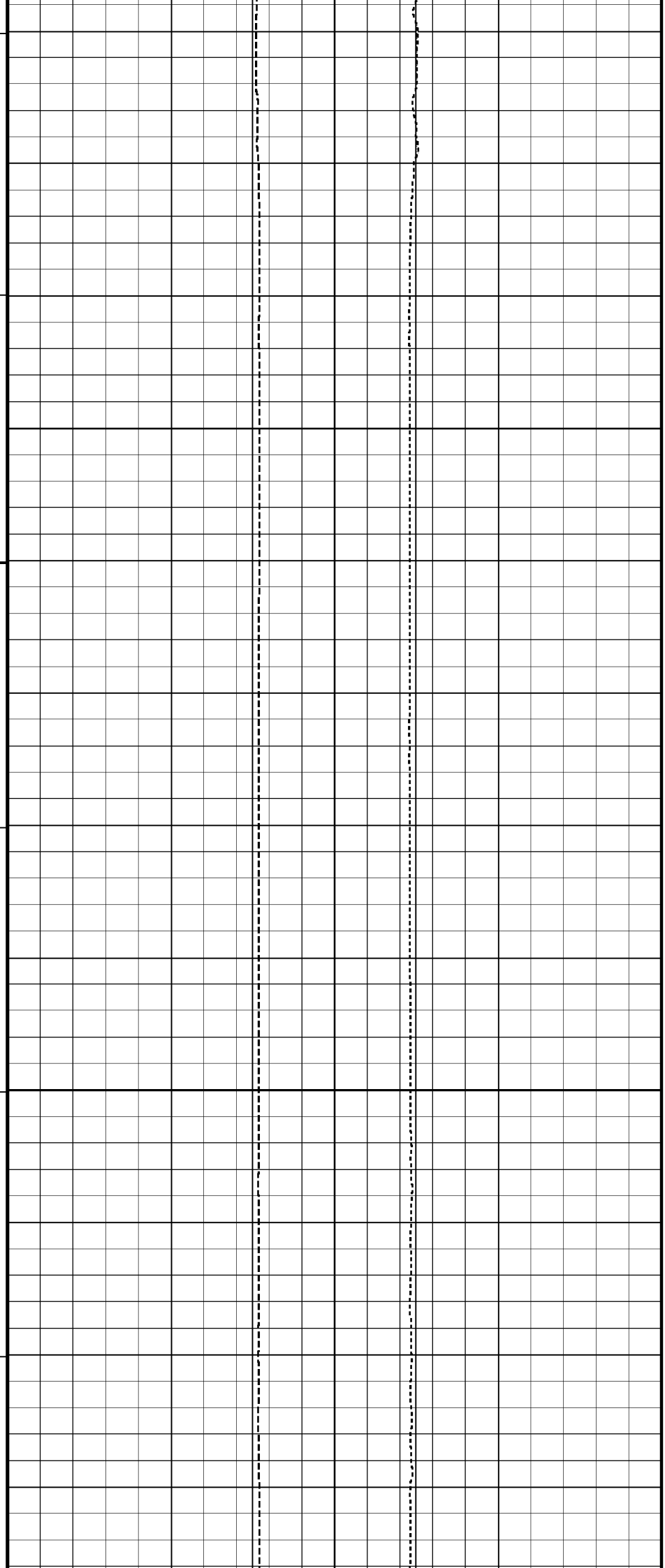
66"

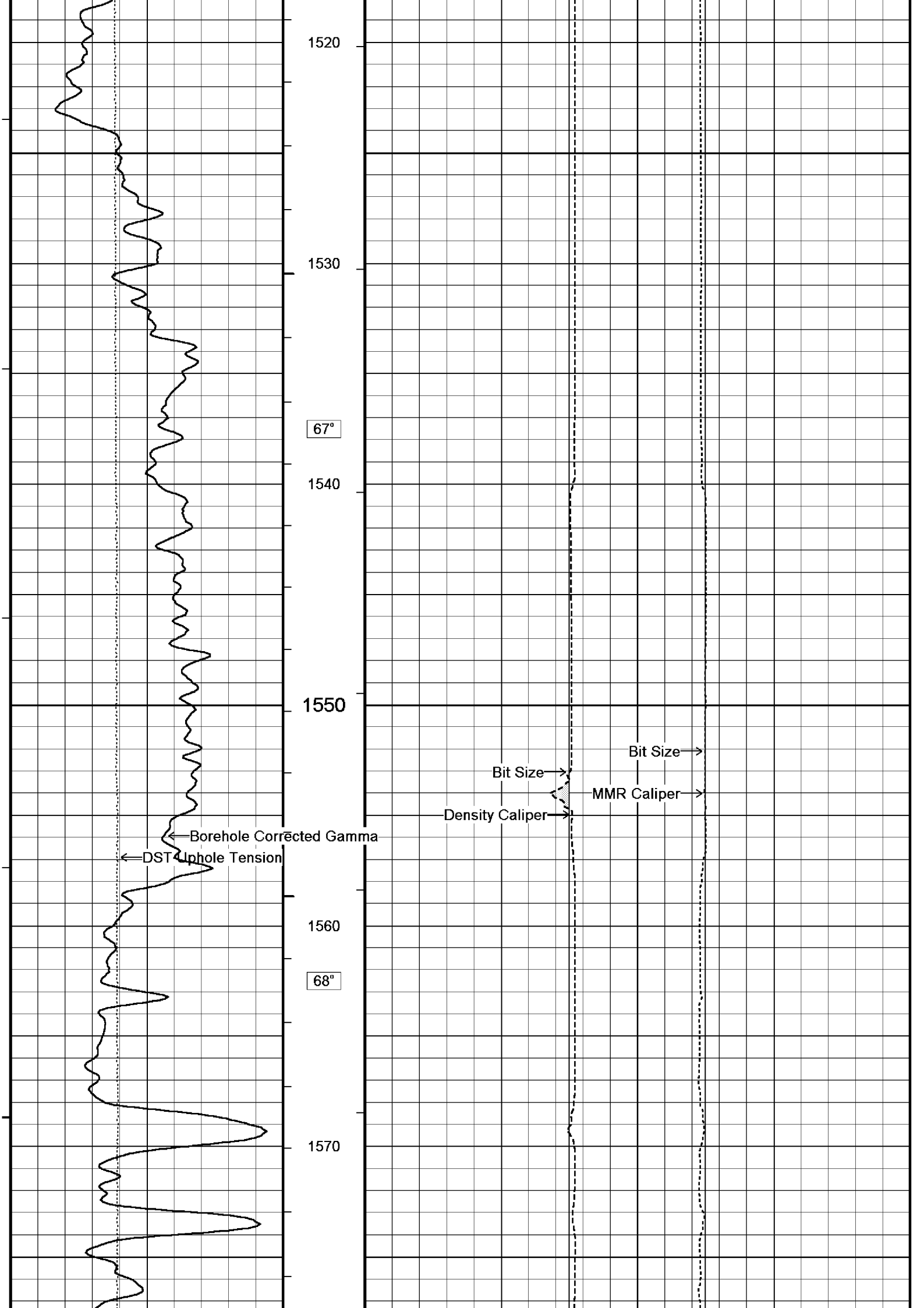
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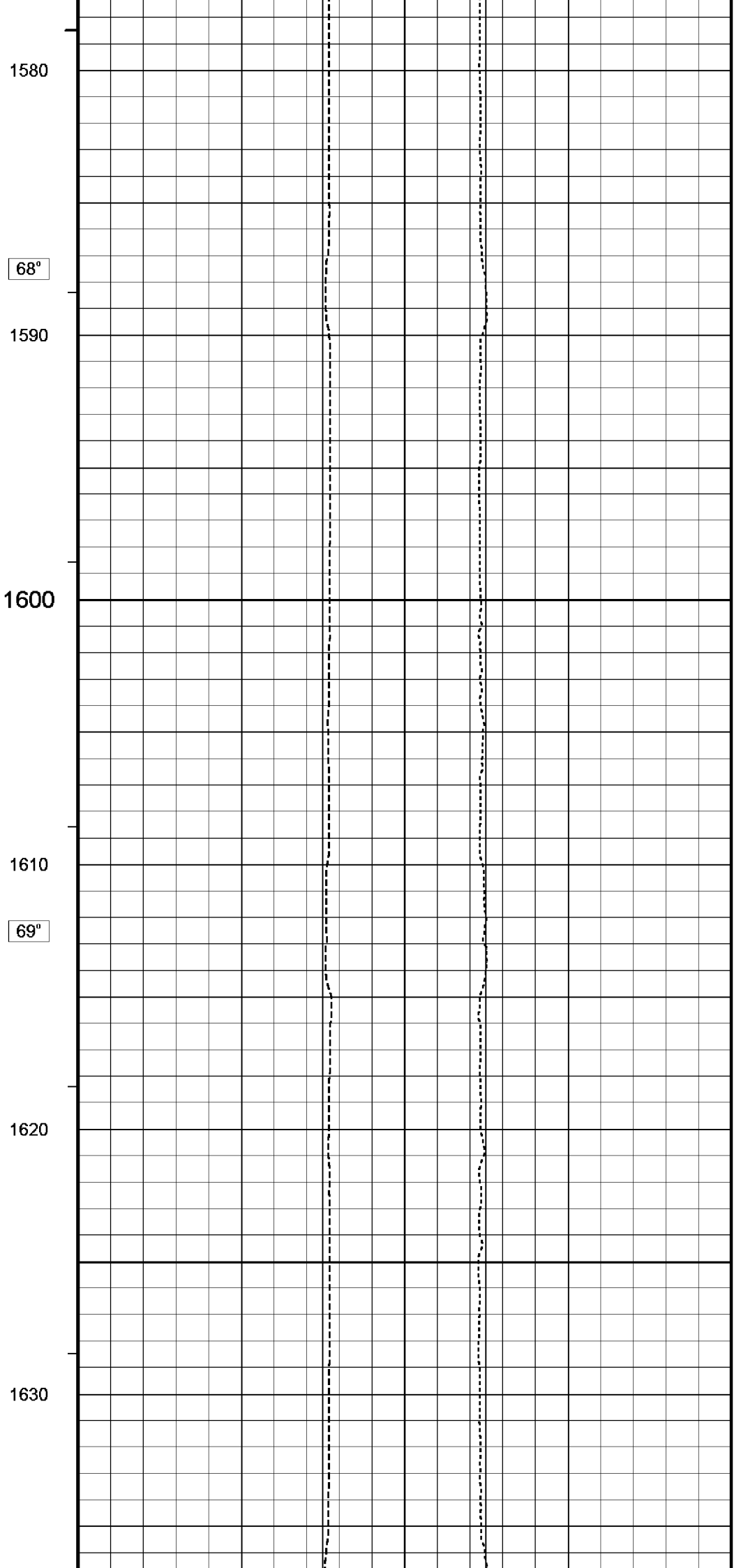
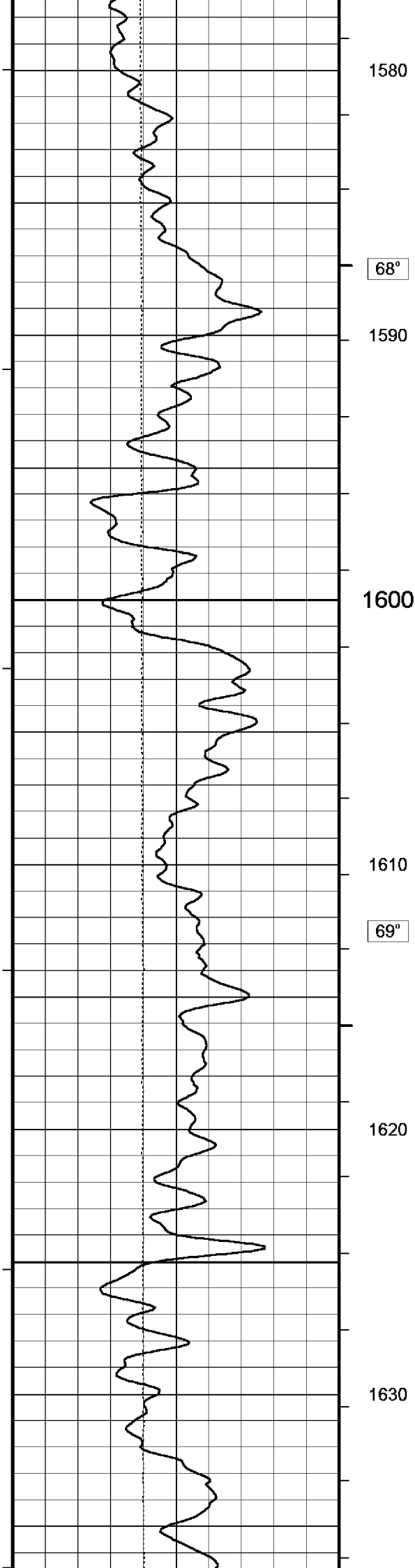
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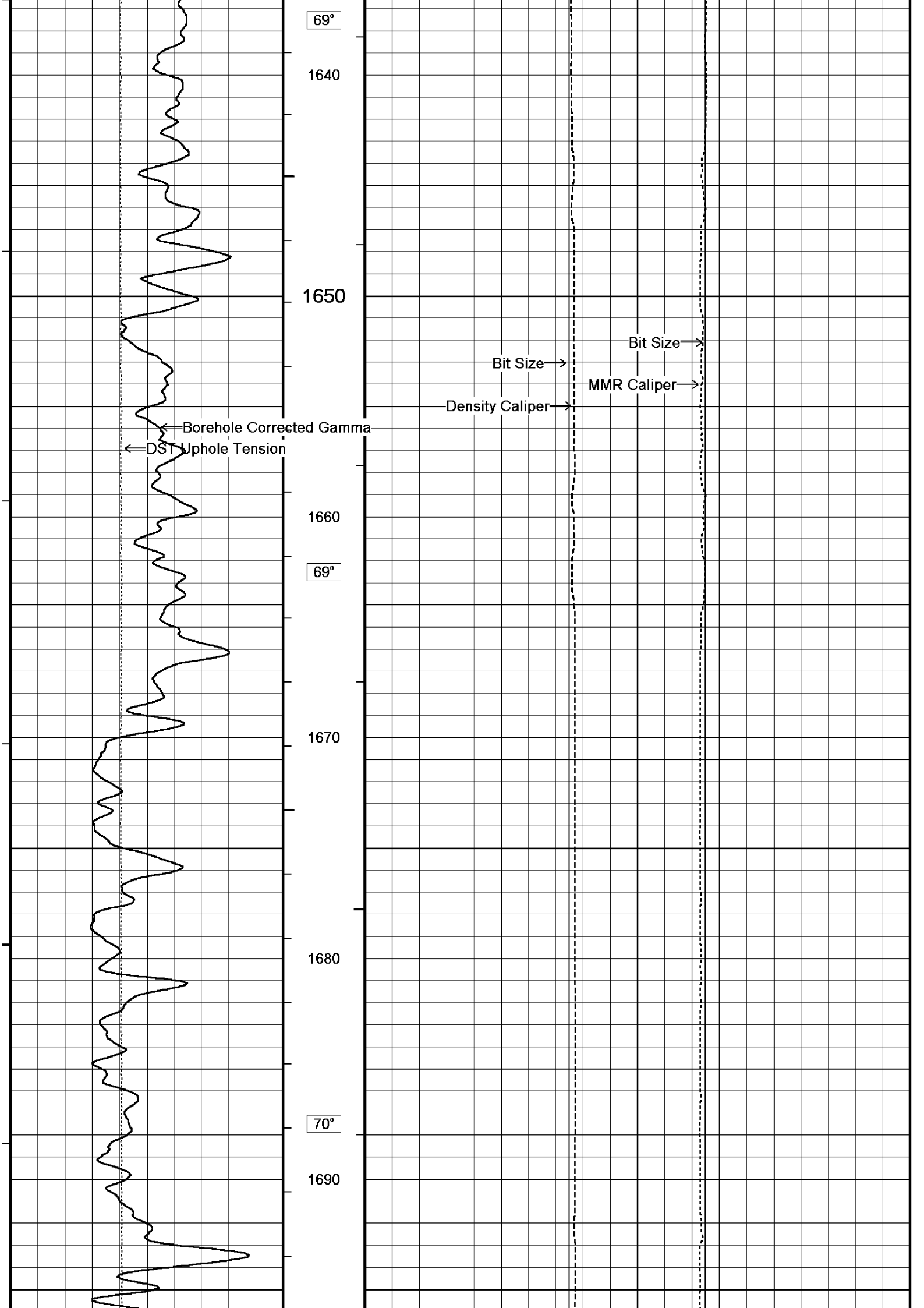
1510

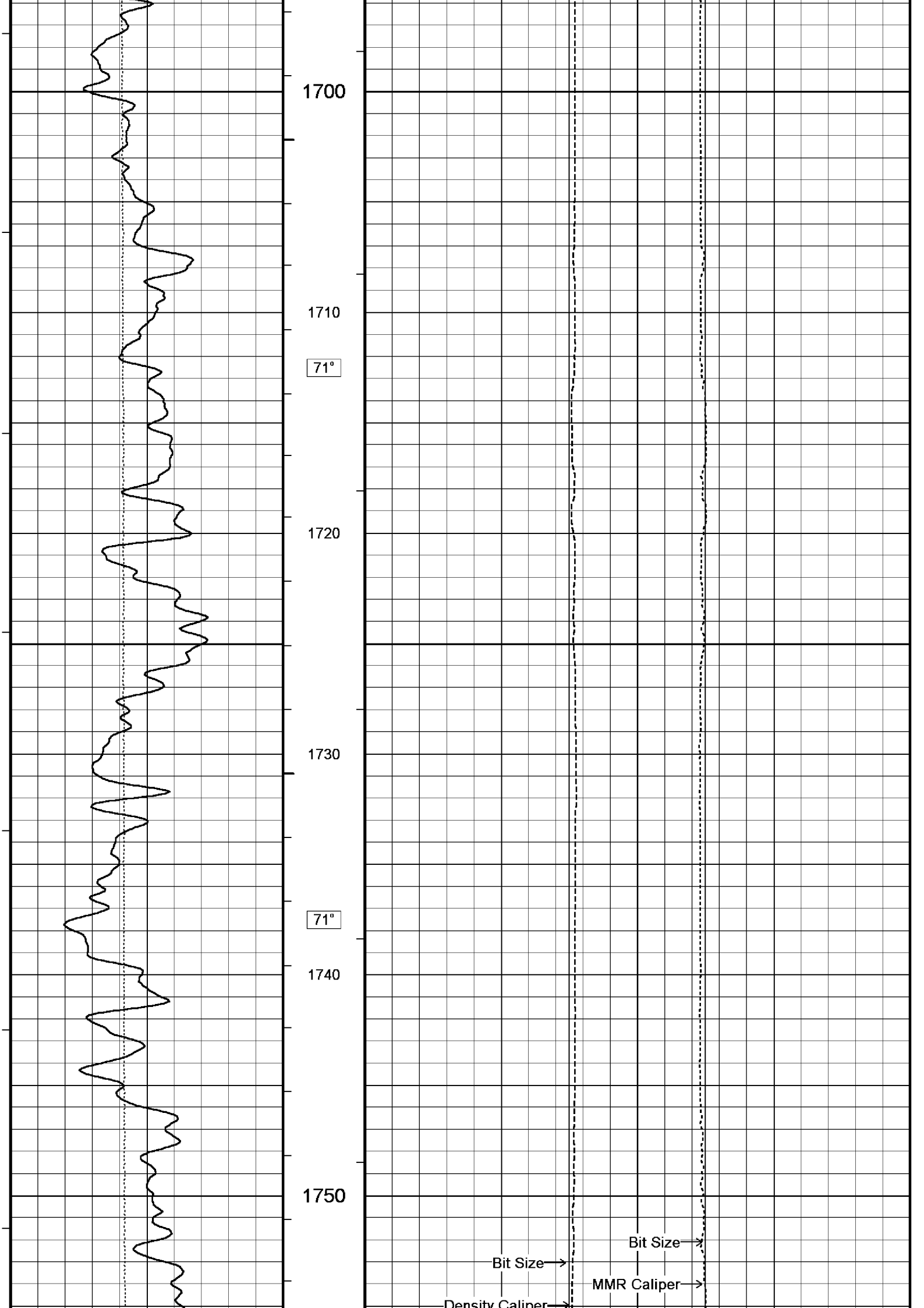
67"

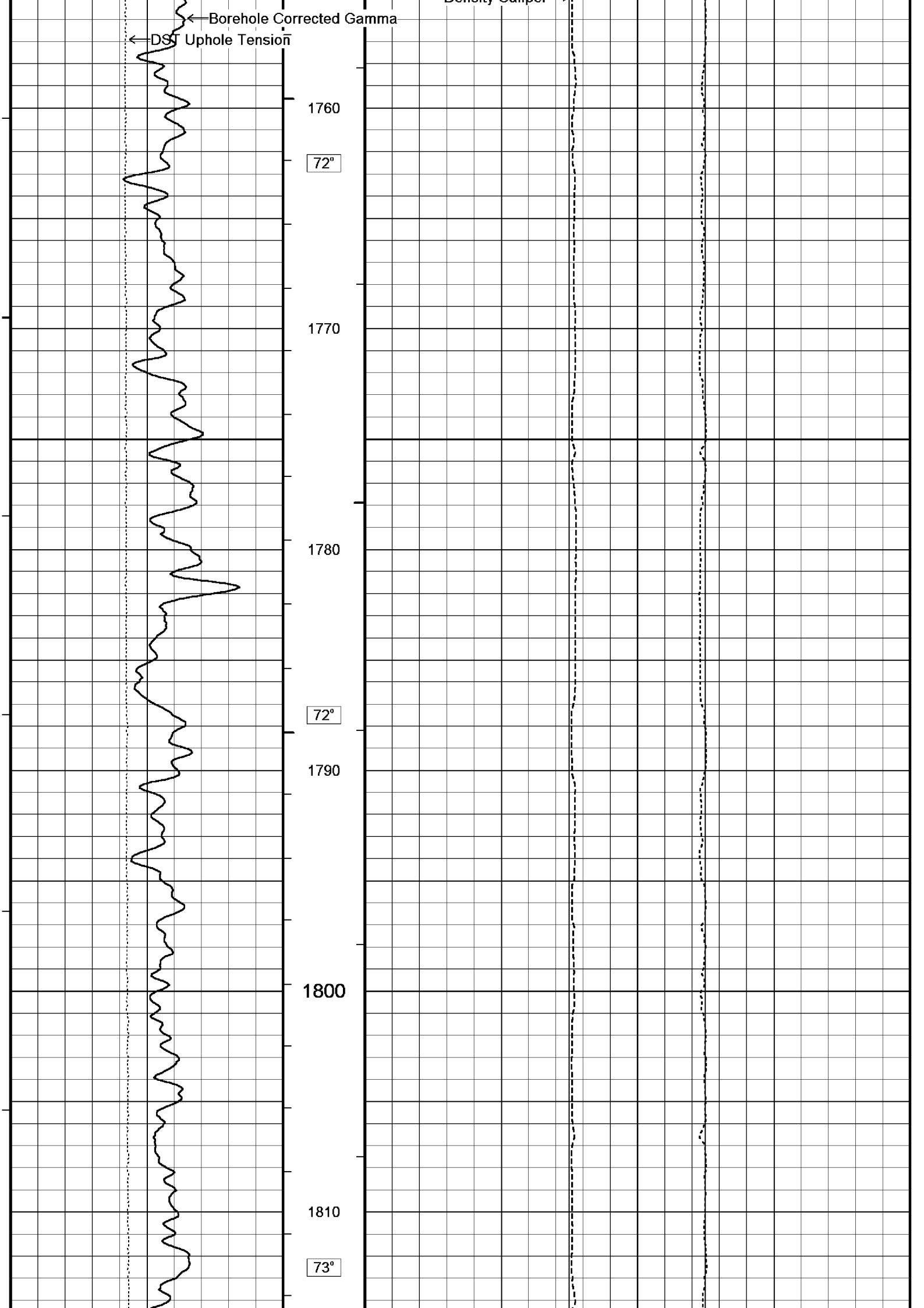


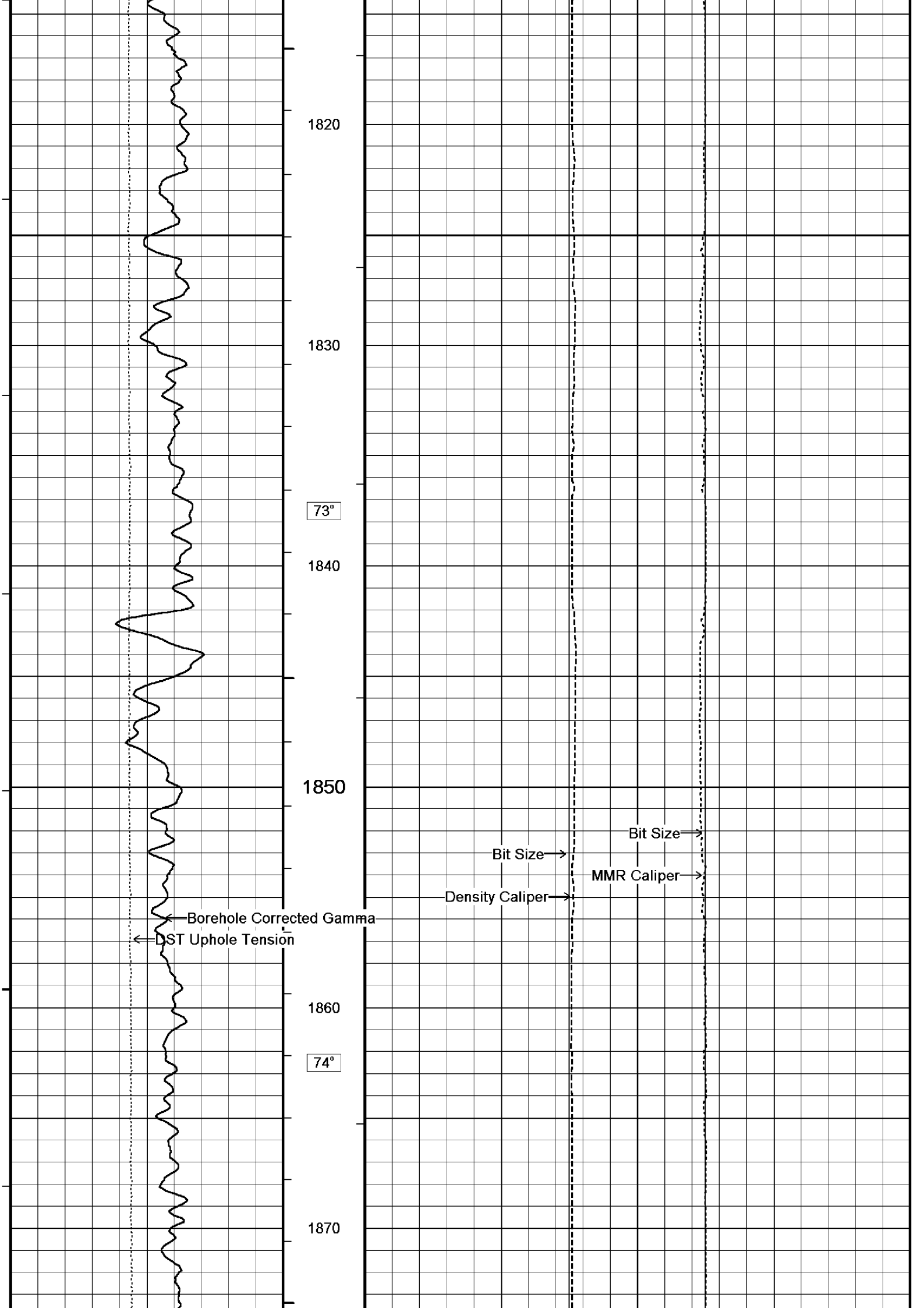




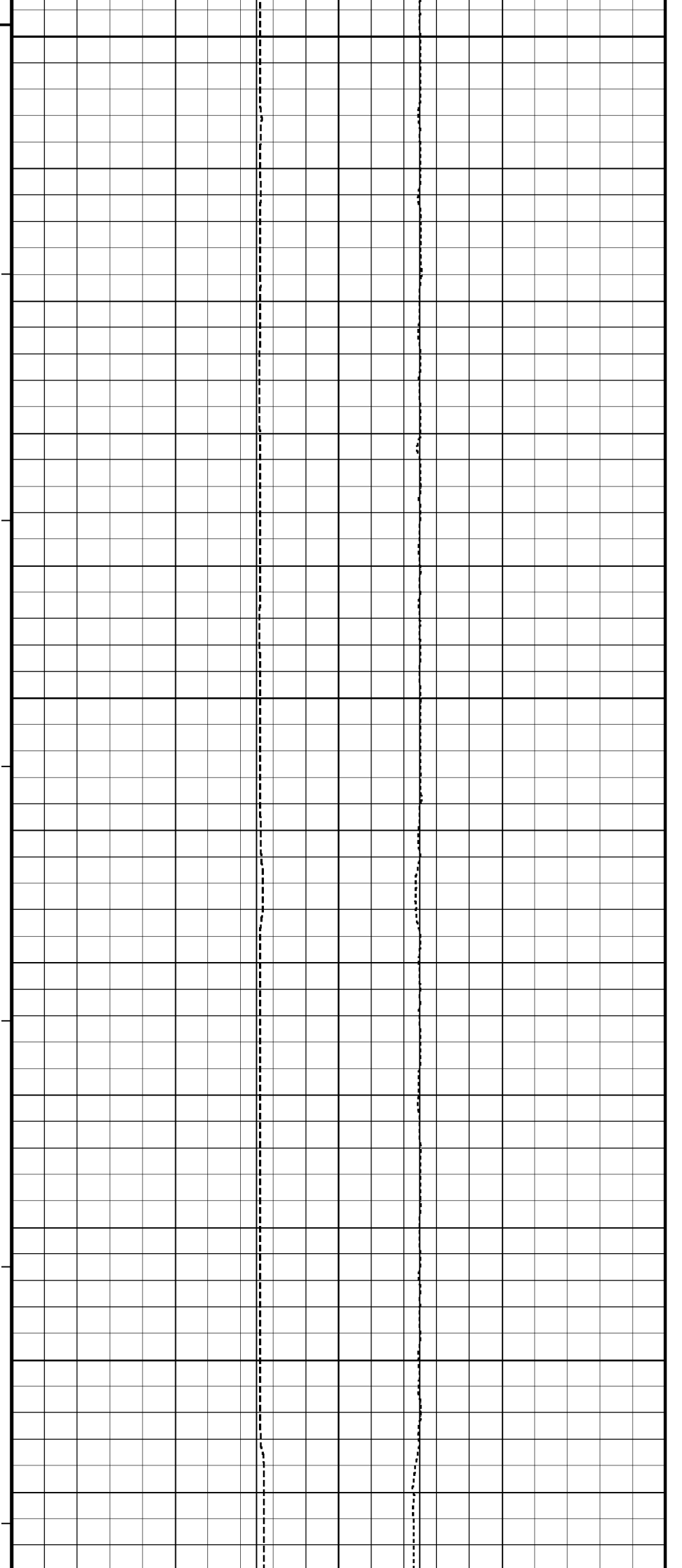
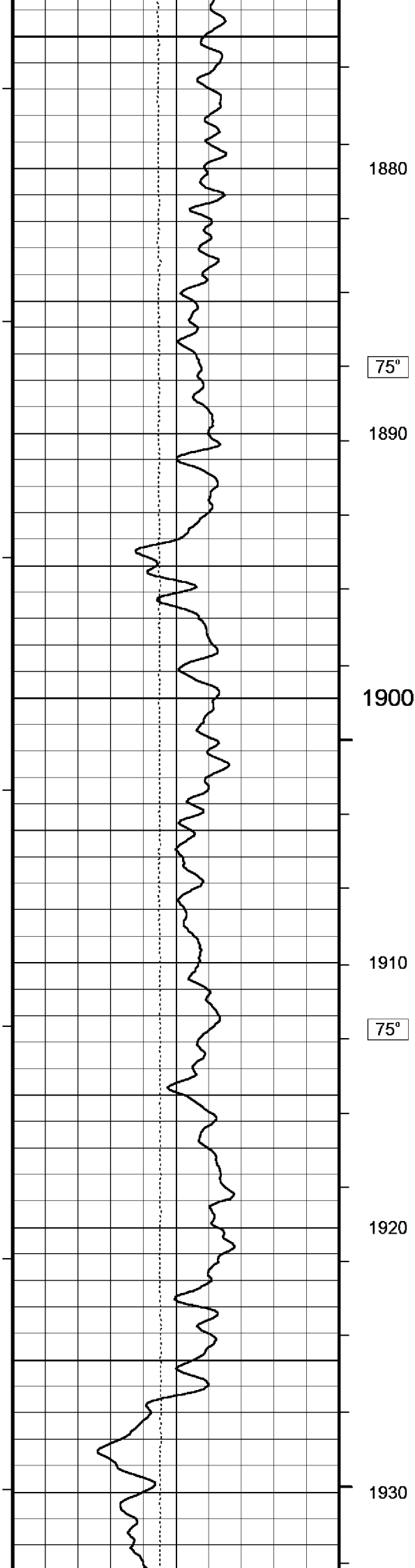


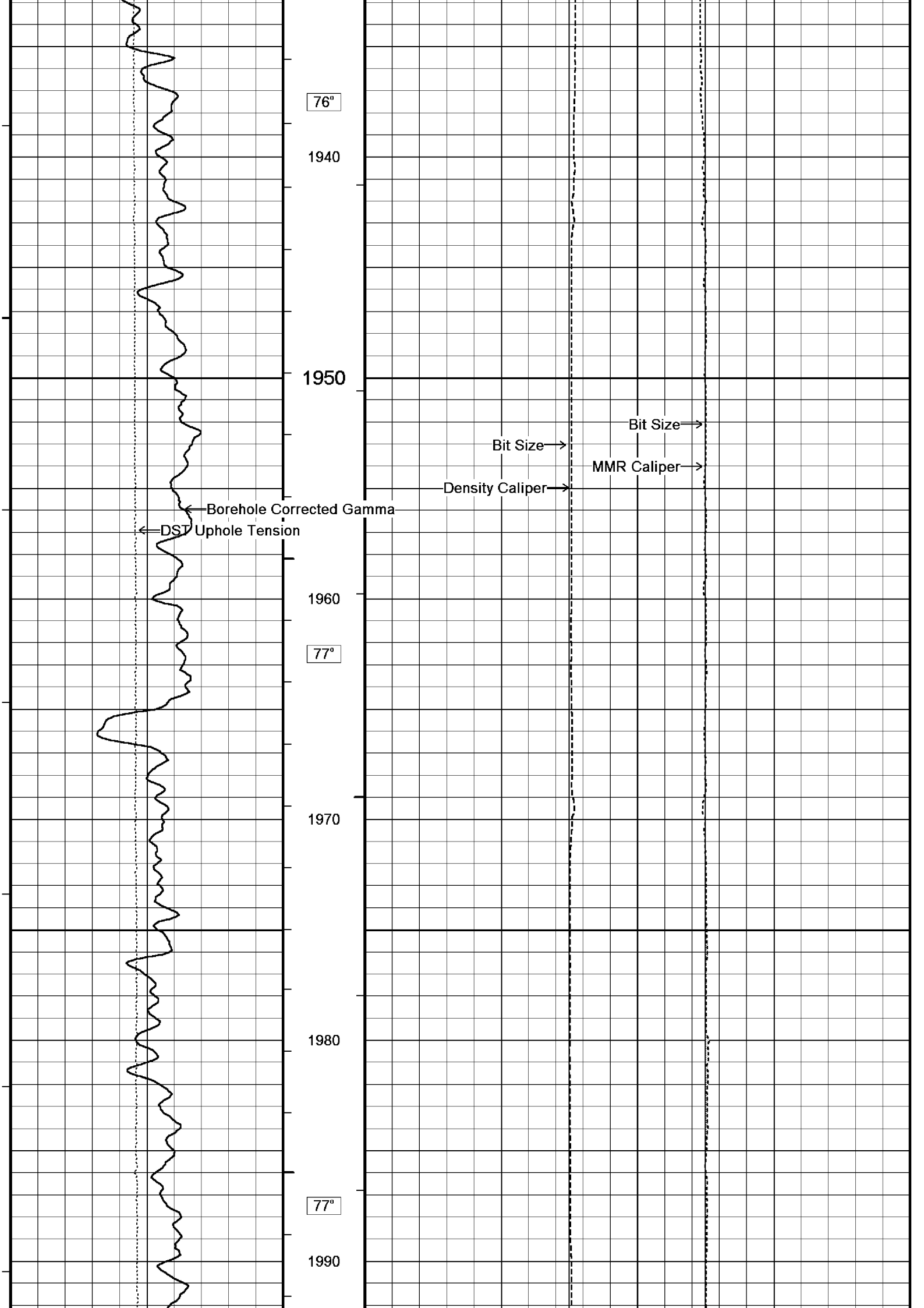


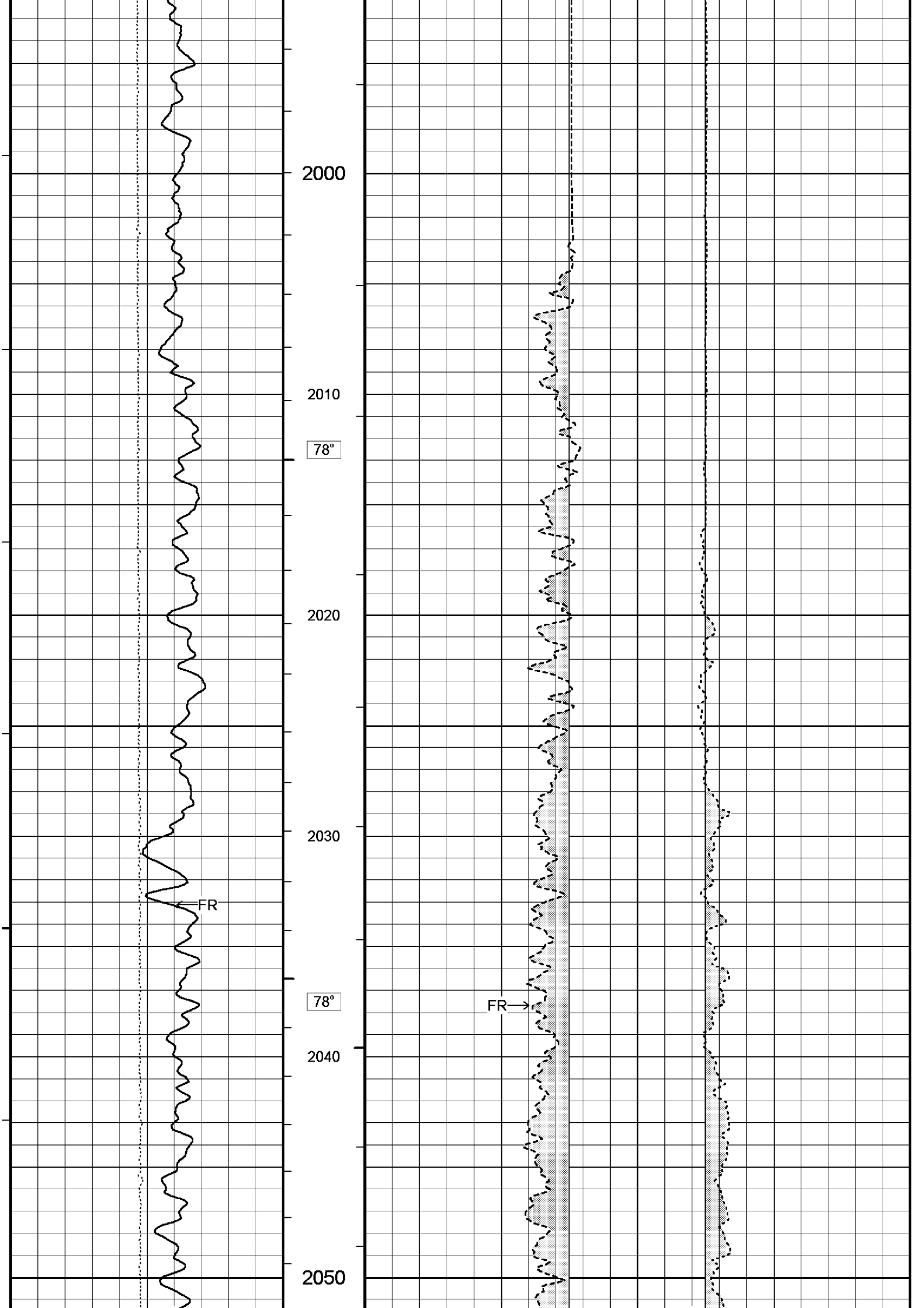


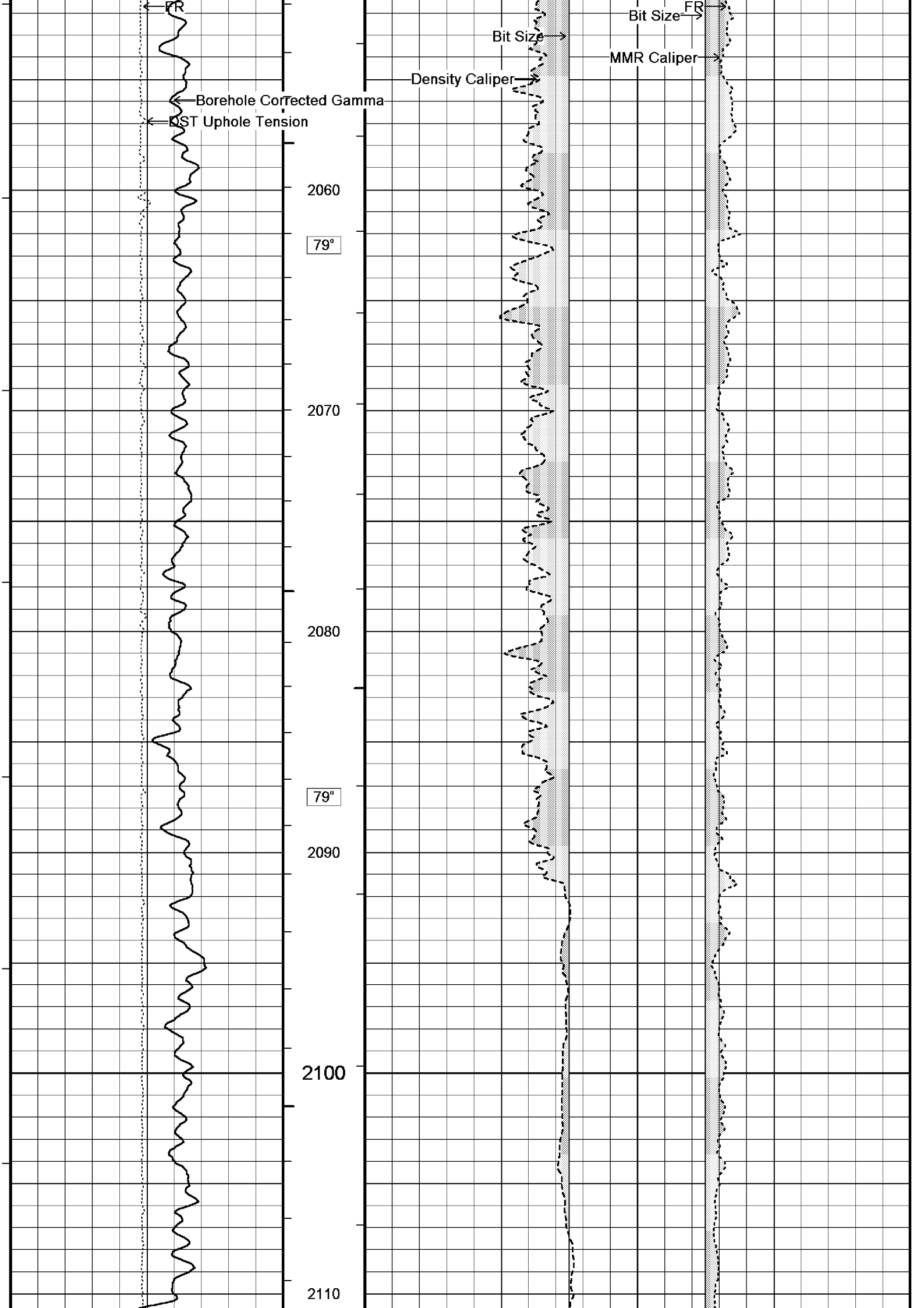


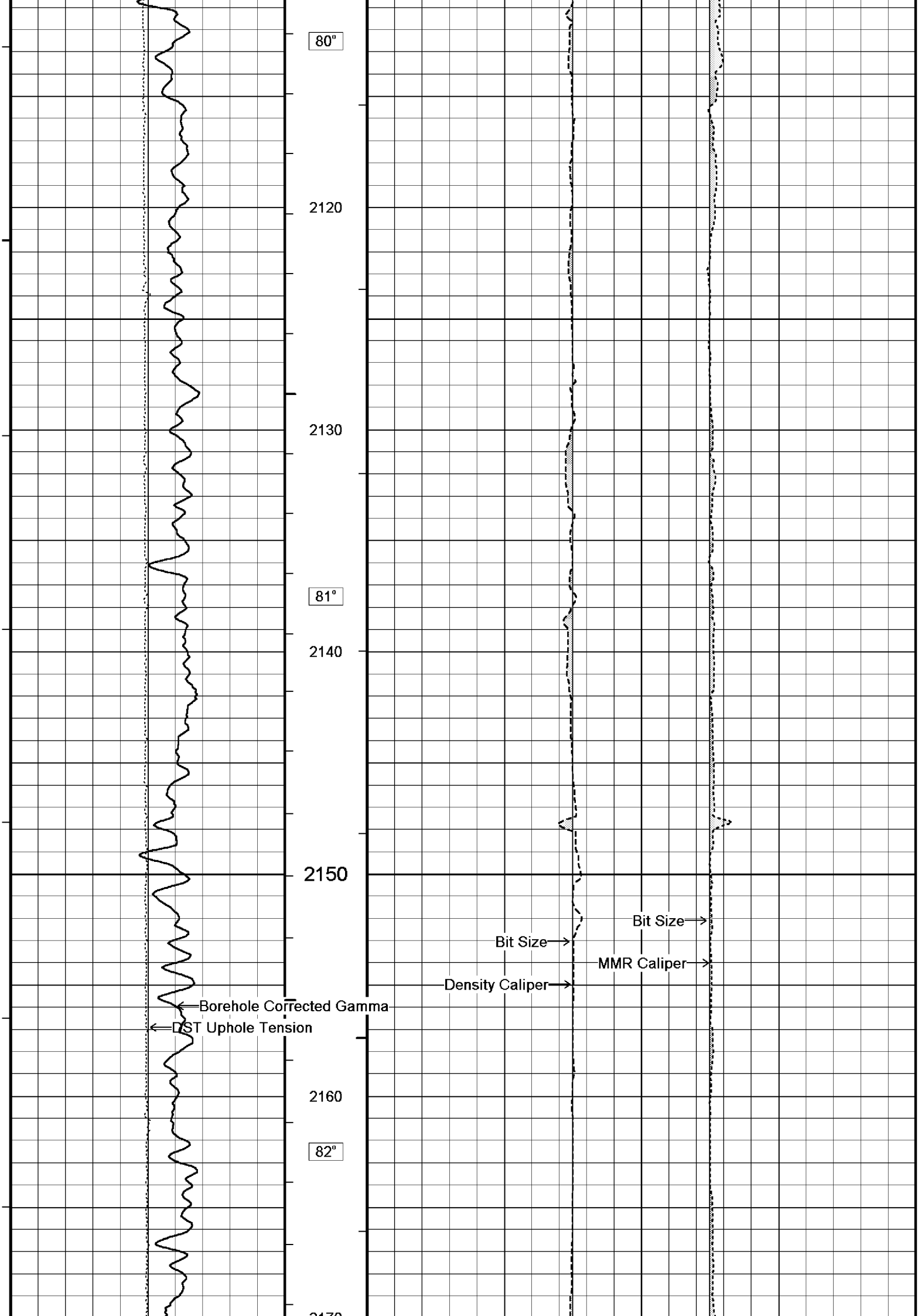


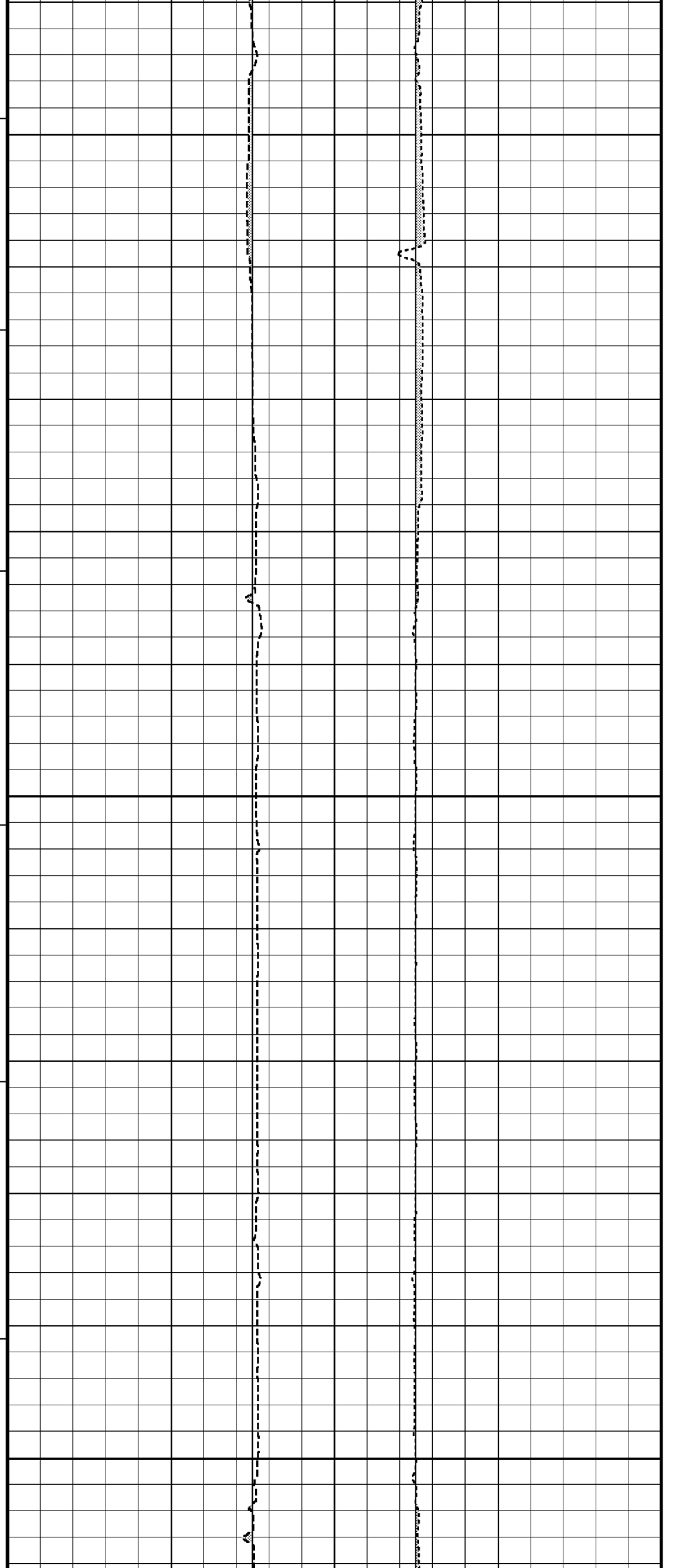
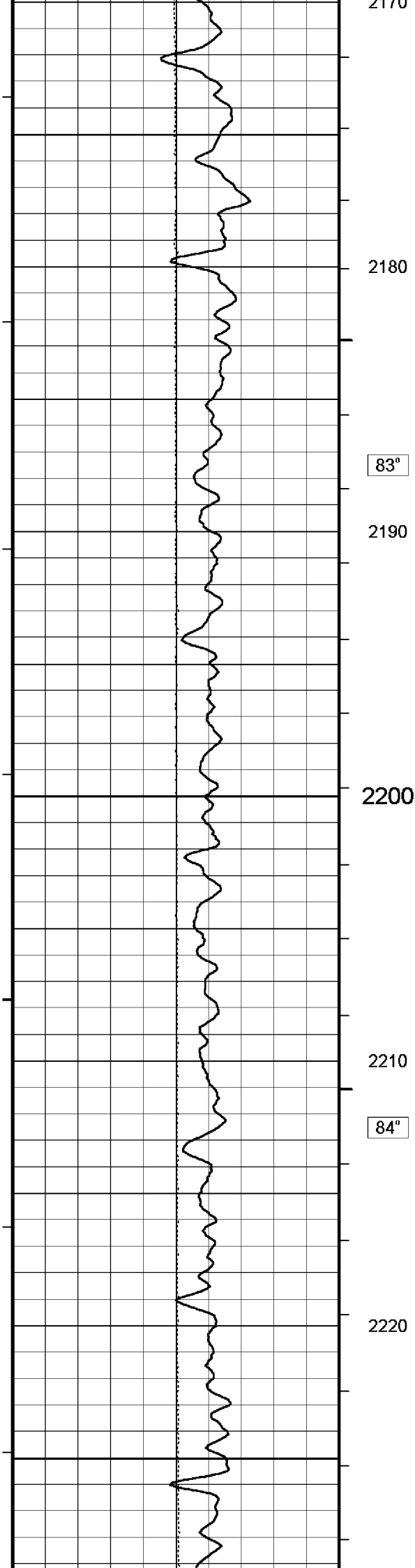


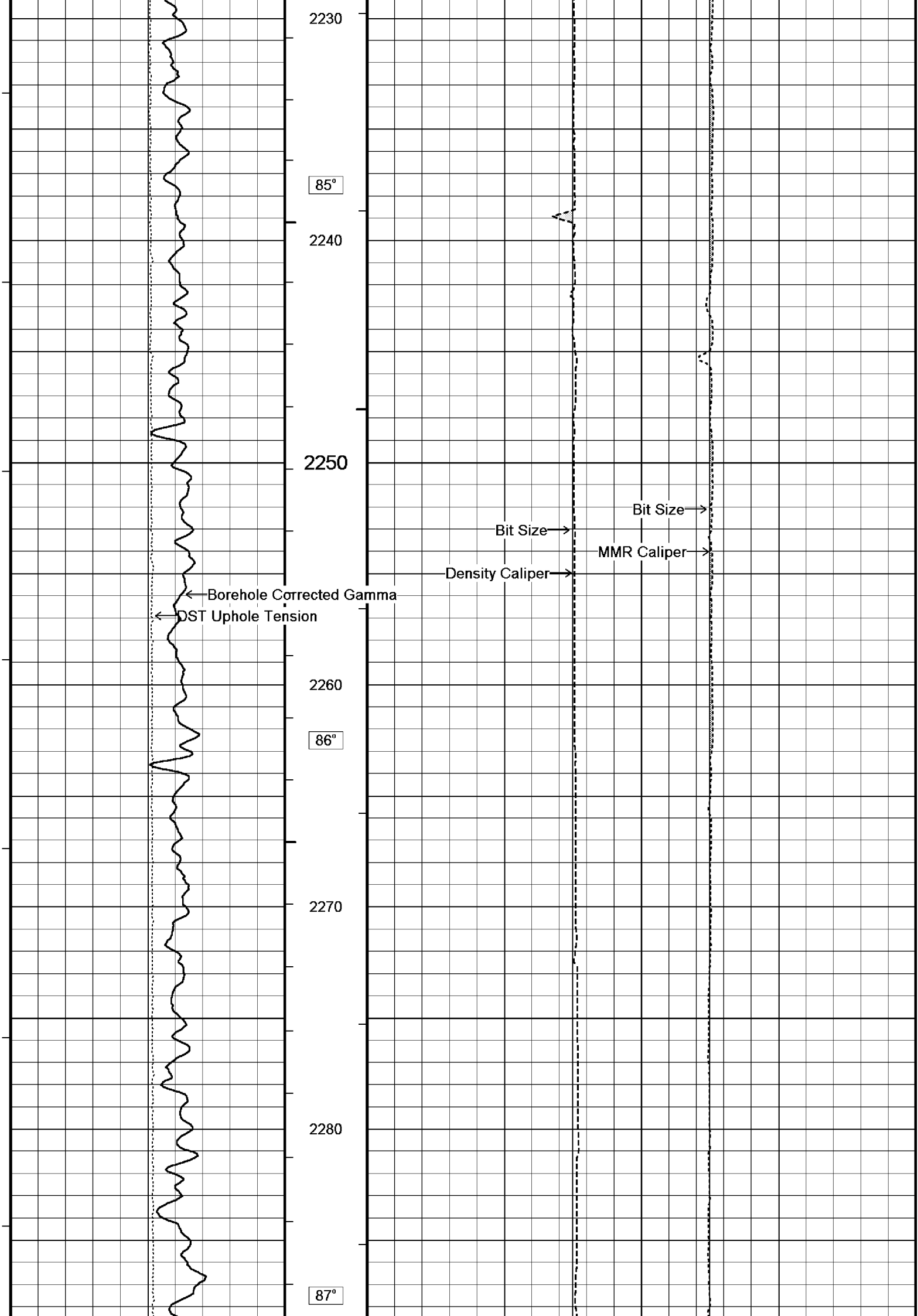


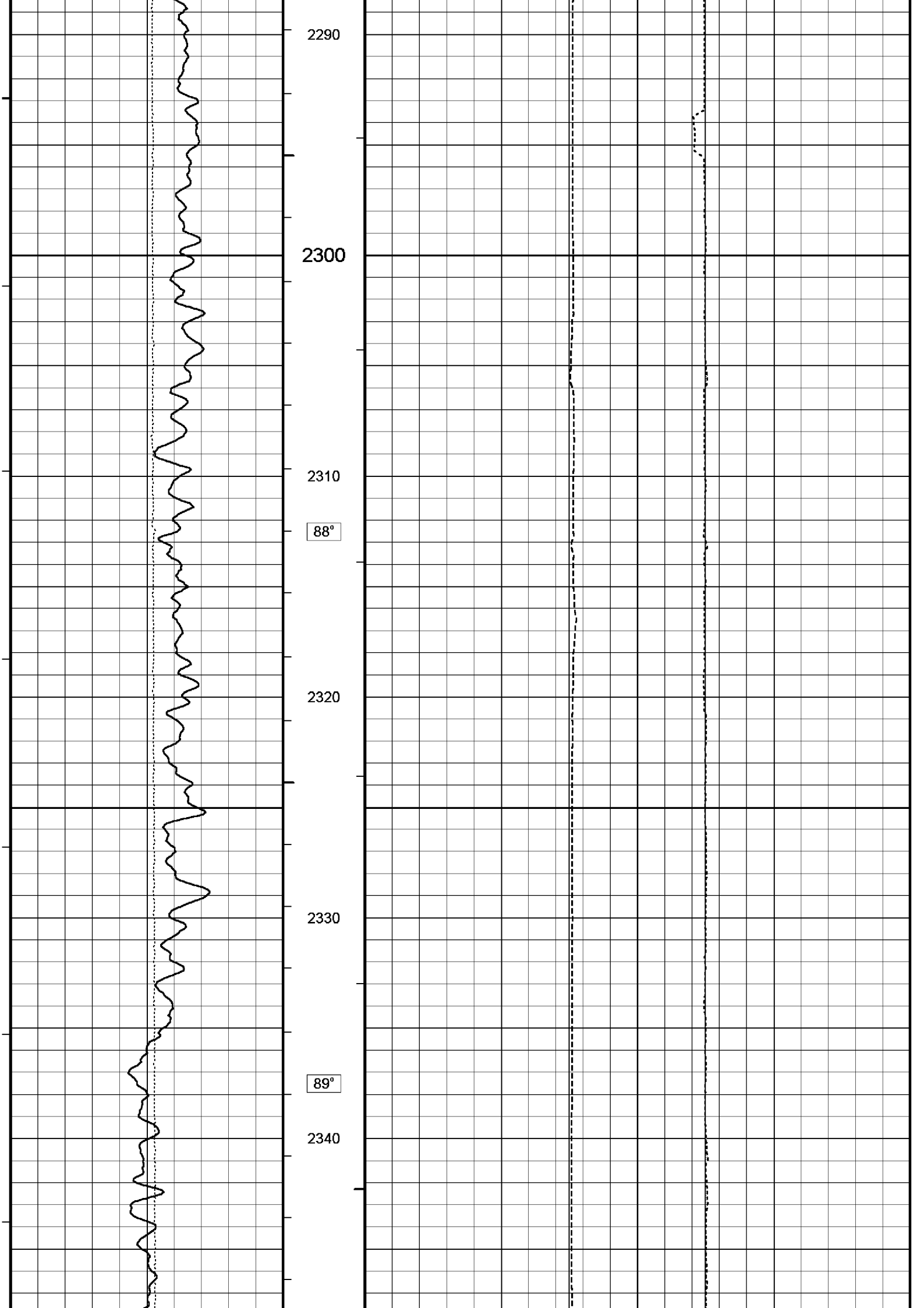




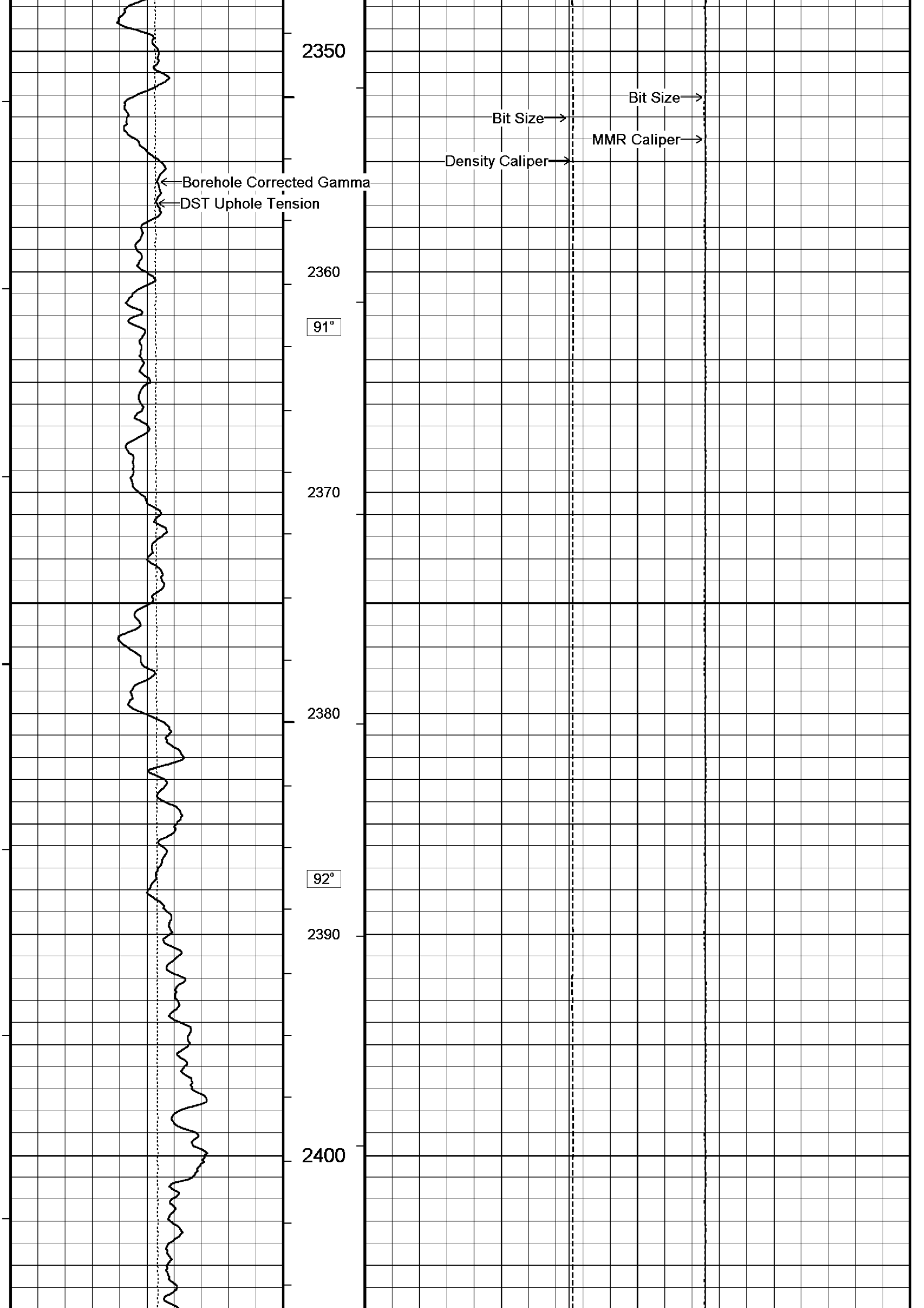


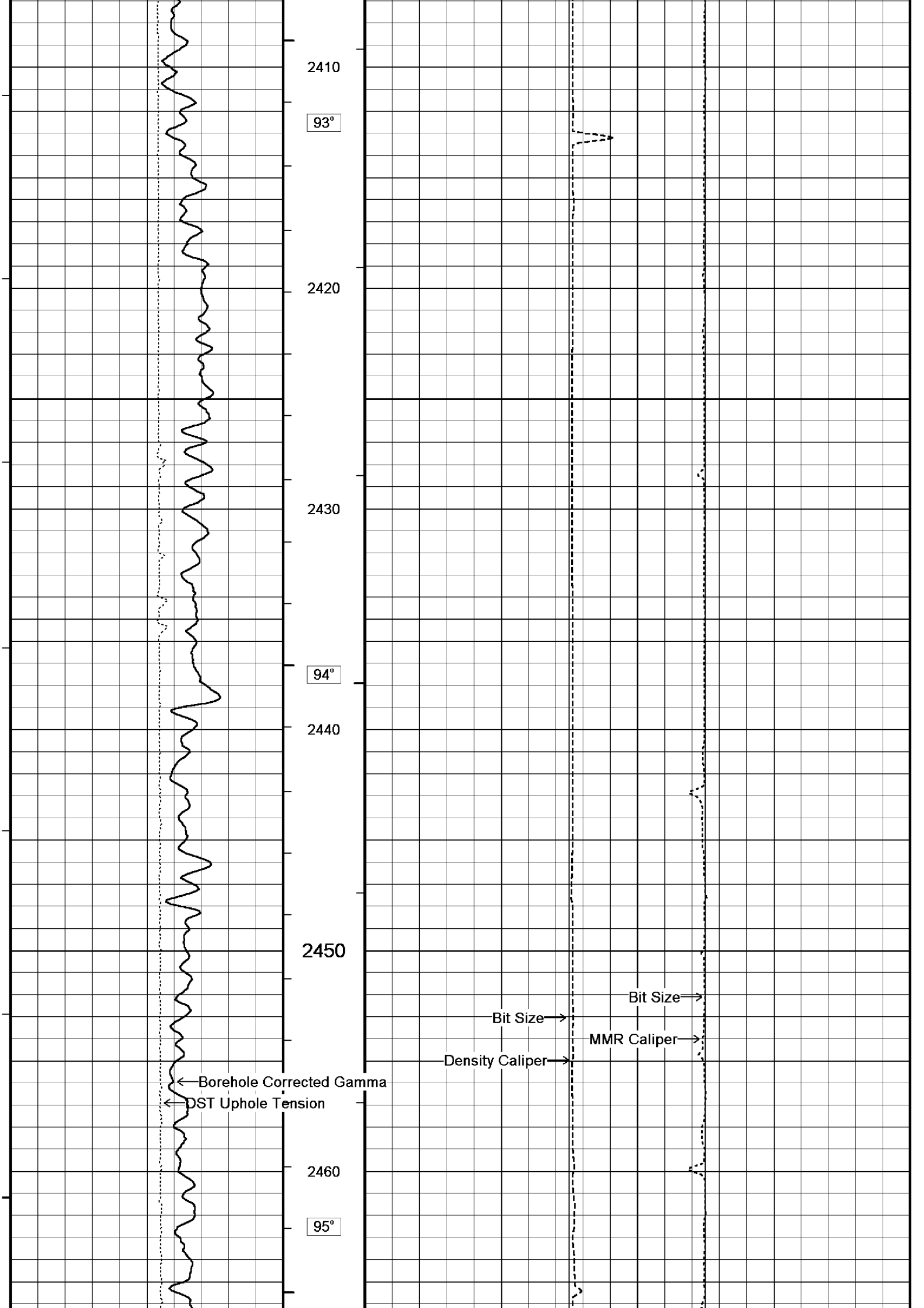


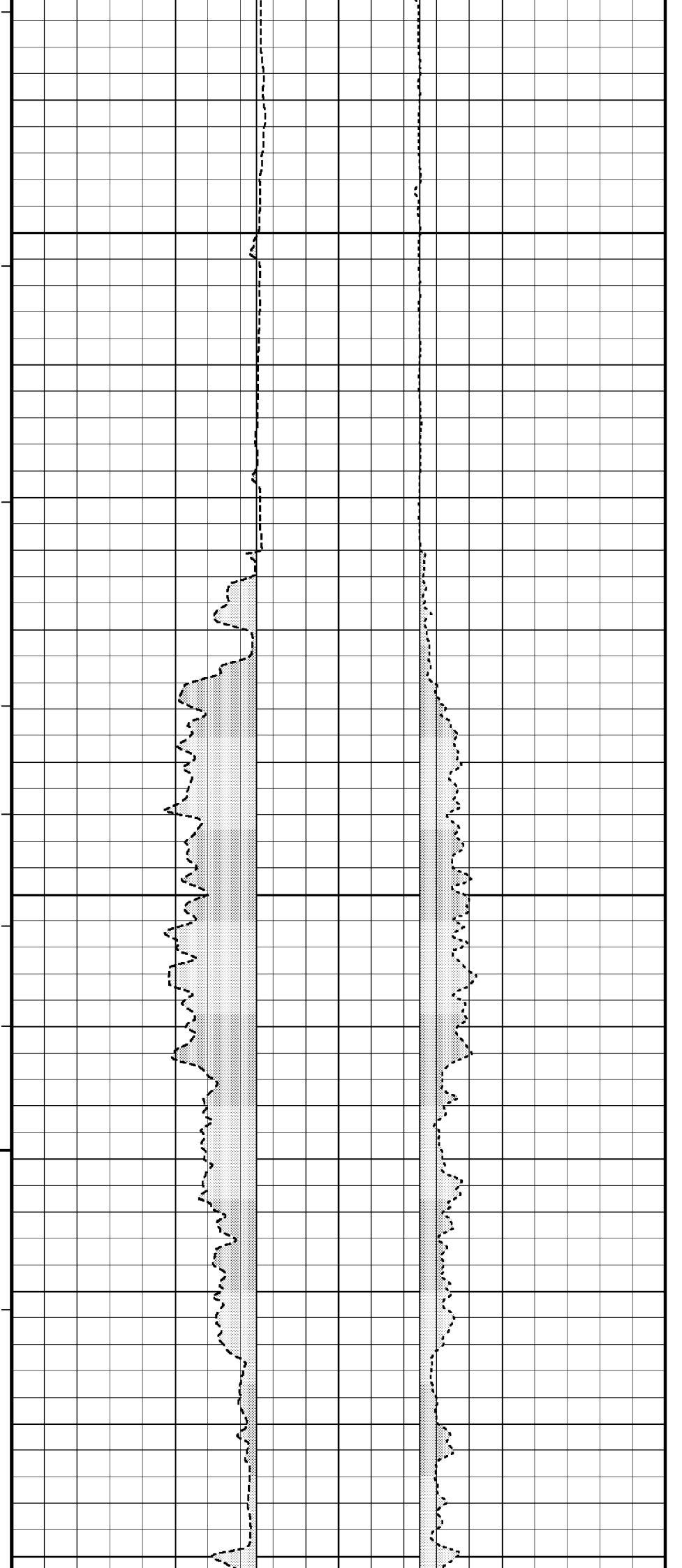
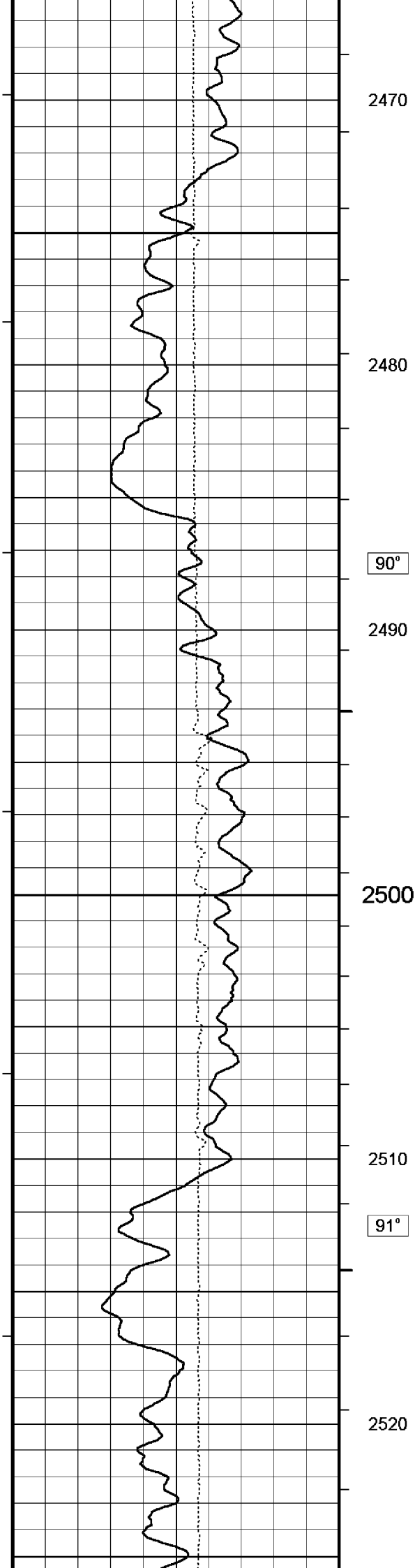


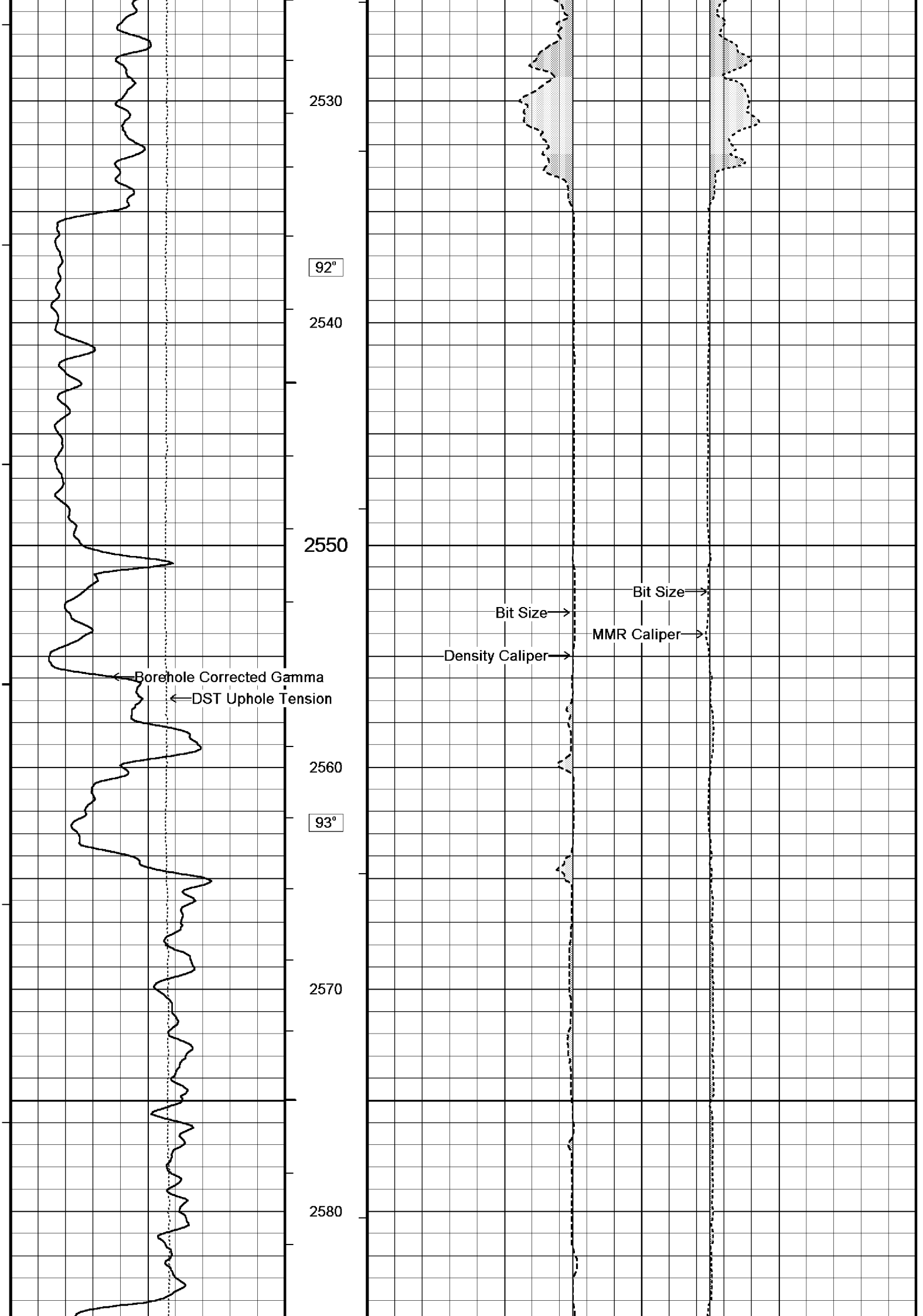


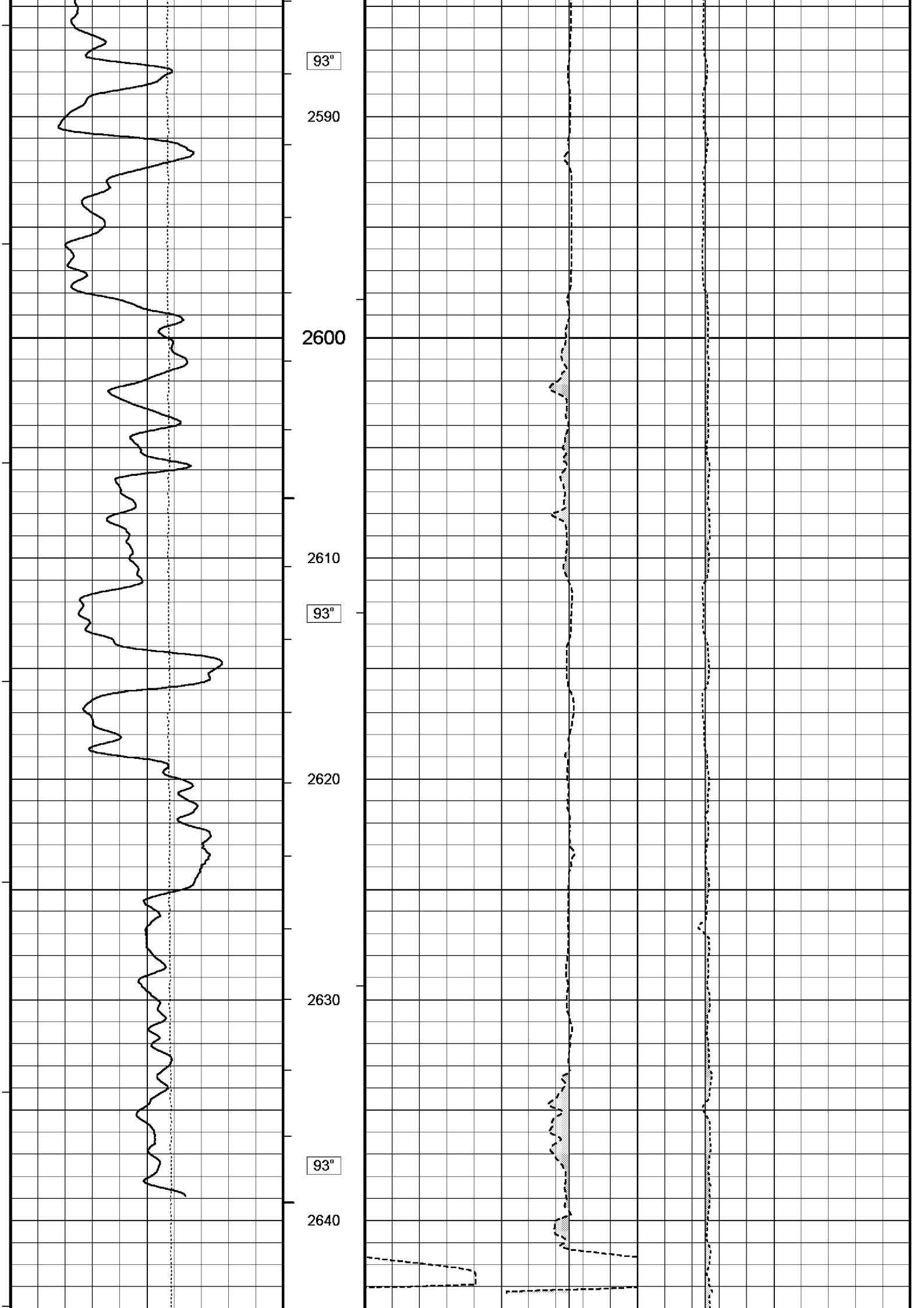














Compact Gamma  
MCG 98    Length: 2.65 m    Weight: 63.9 lb

Compact Neutron  
MDN 43    Length: 1.53 m    Weight: 50.7 lb

Compact Density/Caliper  
MPD 66    Length: 2.92 m    Weight: 90.4 lb

Compact Knuckle Joint  
SKJ 3    Length: 0.66 m    Weight: 24.3 lb

Compact Sonic  
MSS 49    Length: 3.82 m    Weight: 72.8 lb

Compact Upper Guard Sub.  
MUG 20    Length: 2.74 m    Weight: 68.3 lb

Compact Laterolog Electrode Sub.  
MLE 16    Length: 3.76 m    Weight: 92.6 lb



18.56 m    GGCE - Borehole Corrected Gamma  
17.67 m    CGXT - MCG External Temperature

16.69 m    NPRL - Limestone Neutron Por.

14.01 m    AVOL - Annular Volume  
14.01 m    HVOL - Hole Volume  
14.01 m    CLDC - Density Caliper  
13.80 m    DEN - Compensated Density

13.80 m    DCOR - Density Correction  
13.78 m    PDPE - PE

9.24 m    TR21 - 3' Transit Time  
9.24 m    TR22 - 5' Transit Time  
9.24 m    TR11 - 4' Transit Time  
9.24 m    DT35 - 3-5' Compensated Sonic

9.24 m    TR12 - 6' Transit Time

3.93 m    DSLL - Shallow Laterolog  
3.93 m    DDLL - Deep Laterolog

Compact Micro-Resistivity  
MMR 5      Length: 2.62 m      Weight: 81.6 lb

Pressure Bung + Hole Finder  
HFS 3      Length: 0.28 m      Weight: 6.6 lb

Total      Length: 28.50 m      Weight: 740.8 lb



0.00 m      MRRS - MicroRes Resistance (S)  
0.00 m      MATC - MMR Caliper  
Tool Zero      (0.85m from bottom)

All measurements relative to tool zero.

## BEFORE SURVEY CALIBRATION

C:\logs\Origin\Childers Cove Run 2\SUPERCOMBO\_COMBINED\_MAIN\_LOG.dta

### General Constants All 000

General Parameters  
Mud Resistivity      3.210      ohm-metres  
Mud Resistivity Temperature      20.000      degrees C  
Water Level      0.000      metres  
Density/Neutron Processing      Wet Hole

Hole/Annular Volume and Differential Caliper Parameters  
HVOL Caliper 1      Density Caliper  
HVOL Caliper 2      Density Caliper  
Annular Volume Diameter      7.000      inches  
Caliper for Differential Caliper      Density Caliper

Rwa Parameters  
Porosity used      Limestone Sonic Porosity  
Resistivity used      Deep Laterolog  
RWA Constant A      0.610  
RWA Constant M      2.150

### Gamma Calibration MCG 098

Field Calibration on 3-OCT-2005,19:46

	Measured	Calibrated (API)
Background	29	22
Calibrator (Gross)	1029	771
Calibrator (Net)	1000	749

### Gamma Constants MCG 098

Gamma Calibrator Number      30  
Mud Density      1.16      gm/cc  
Caliper Source for Processing      Density Caliper  
Tool Position      Eccentred  
Concentration of KCl      0.00      kppm

### High Resolution Temperature Calibration MCG 098

Field Calibration on 3-OCT-2005,20:14

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

### High Resolution Temperature Constants MCG 098

Pre-filter Length      11

### Caliper Calibration MPD 066

Base Calibration on 22-AUG-2005 11:11

Field Calibration on 3-OCT-2005,20:15

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	11983	4.01
2	20446	5.99
3	29120	7.98
4	37568	9.94
5	47008	12.01
6	N/A	N/A

Field Calibration



Measured Caliper (in)  
8.91

Actual Caliper (in)  
8.92

Micro Laterolog Calibration MMR 005

Base Calibration on 24-AUG-2005 09:35  
Field Check on 3-OCT-2005,20:16

Base Calibration

Measured		Calibrated (ohm-m)	
Ref 1	Ref 2	Ref 1	Ref 2
0.0	9744.7	0.0	196.0

Base Check (ohm-m)	Field Check (ohm-m)
8.1	8.0

Micro Laterolog Constants MMR 005

Micro Laterolog K Factor	0.0196	
Standoff Offset	0.0000	inches

COMPANY	ORIGIN ENERGY RESOURCES LIMITED
WELL	CHILDERS COVE 1
FIELD	ONSHORE OTWAY BASIN
PROVINCE/COUNTY	VICTORIA
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	51.50	metres	First Reading	2656.80	metres
Elevation Drill Floor		metres	Depth Driller	2658.00	metres
Elevation Ground Level	46.20	metres	Depth Logger	2656.80	metres



**Compact**

CEMENT LOG  
1:200