Weatherford

CALIPER

COMPANY	MCCOY PETROLEUM CORPORATION
WELL	SCHMIDT C 7-29
FIELD	LETTE SE
PROVINCE/COUNTY	HASKELL
COUNTRY/STATE	U.S.A. / KANSAS
LOCATION	330' FNL & 2310' FWL

SEC 29	TWP 30S	RGE 31W	Other Services
Latitude			MPD/MDN
Longitude			MAI/MFE
API Number	15-081-22047		MML

Permanent Datum GL, Elevation 2849 feet
Log Measured From KB
Drilling Measured From KB @ 11 FEET

Elevations:	feet
KB	2860.00
DF	2858.00
GL	2849.00

Date	11-FEB-2014		
Run Number	ONE		
Service Order	5872-79342837		
Depth Driller	5671.00 feet		
Depth Logger	5677.00 feet		
First Reading	5656.00 feet		
Last Reading	4000.00 feet		
Casing Driller	1830.00 feet		
Casing Logger	1830.00 feet		
Bit Size	7.875 inches		
Hole Fluid Type	CHEM		
Density / Viscosity	8.80 lb/USg	65.00 CP	
PH / Fluid Loss	9.50	7.60 ml/30Min	
Sample Source	PIT		
Rm @ Measured Temp	1.30 @ 70.0 ohm-m		
Rmf @ Measured Temp	1.04 @ 70.0 ohm-m		
Rmc @ Measured Temp	1.56 @ 70.0 ohm-m		
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.77 @117.0 ohm-m		
Time Since Circulation	4 HRS		
Max Recorded Temp	117.00 deg F		
Equipment / Base	13244	LIB	
Recorded By	D. COLE		
Witnessed By	D. WILLIAMS		
JOB #	LB 14- 40		

BOREHOLE RECORD

Last Edited: 11-FEB-2014 16:25

Bit Size inches	Depth From feet	Depth To feet
7.875	1830.00	5671.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
CASING	8.625	0.00	1830.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 13.08.211.

- RUN ONE: MCG, SGS, MML, MDN, MPD, MFE AND MAI RUN IN COMBINATION.
  - HARDWARE: DUAL BOWSPRING USED ON MDN.
  0.5 INCH STANDOFF USED ON MFE.
  TWO 0.5 INCH STANDOFFS USED ON MSS.
  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: 560 CU.FT.

- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO SURFACE CASING: 285 CU.FT.

- RIG: STERLING

- ENGINEER: D. COLE.

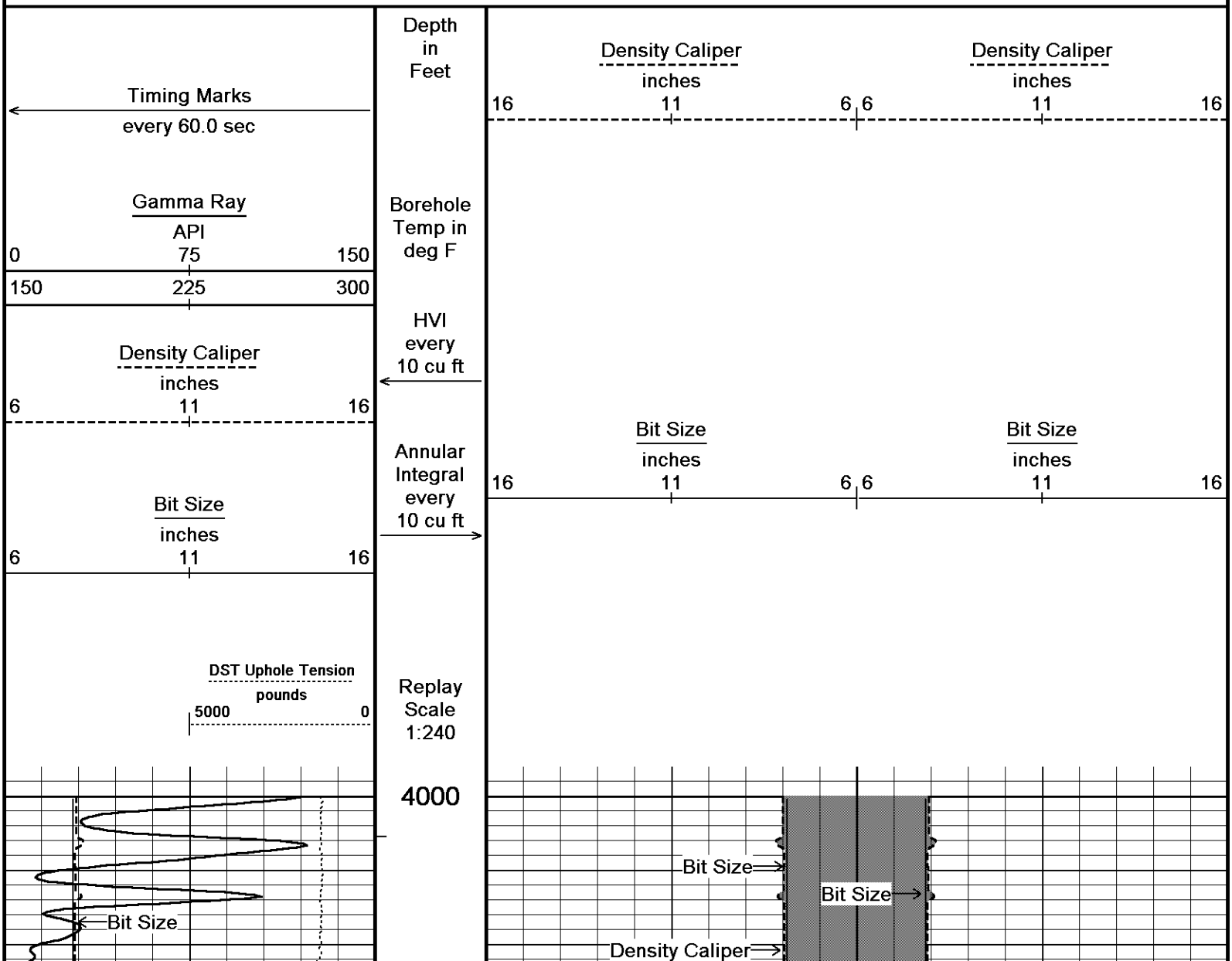
- JUNIOR FIELD ENGINEER: J. LAPOINT.

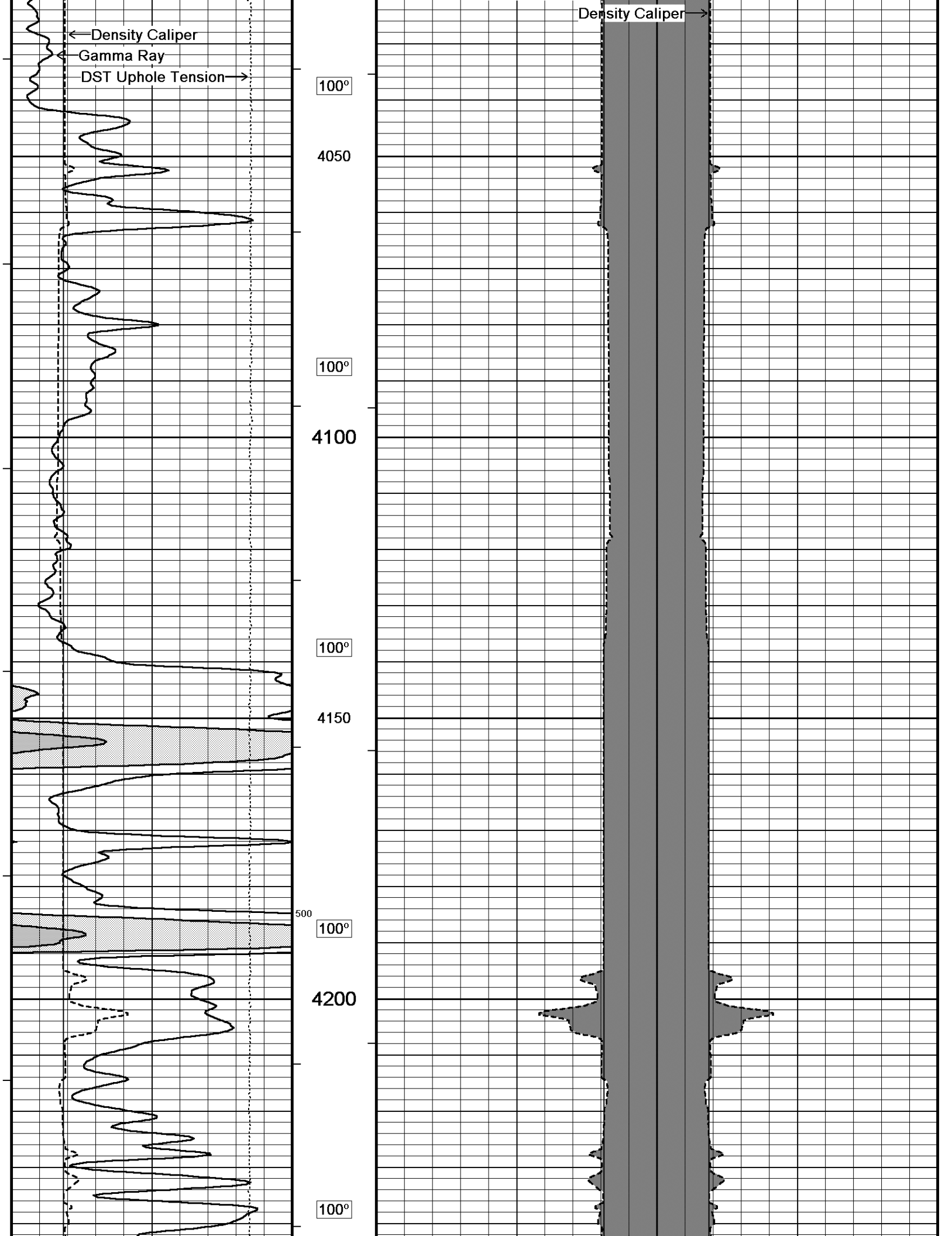
- OPERATOR: C. RAMIREZ.

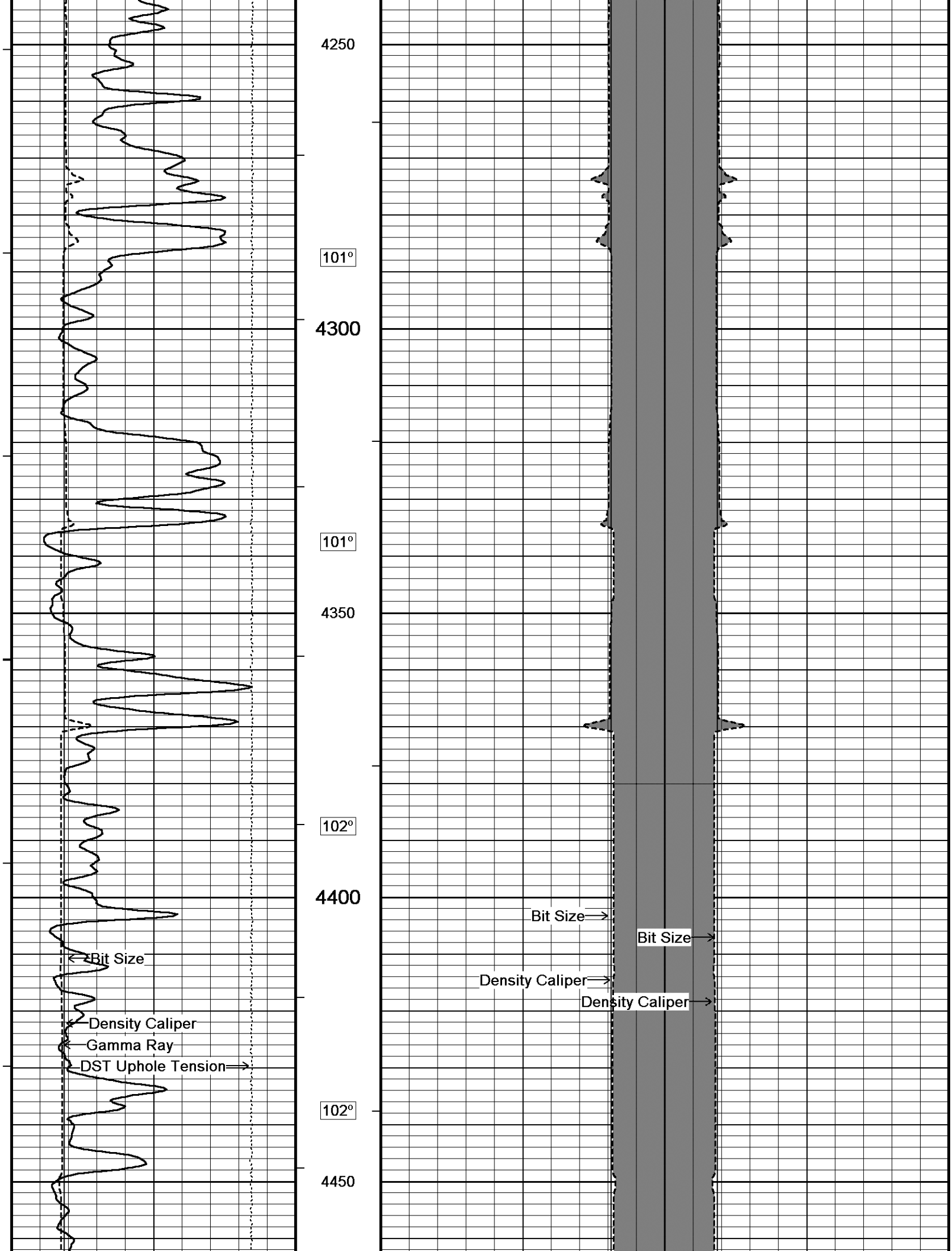
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 11-FEB-2014 19:43

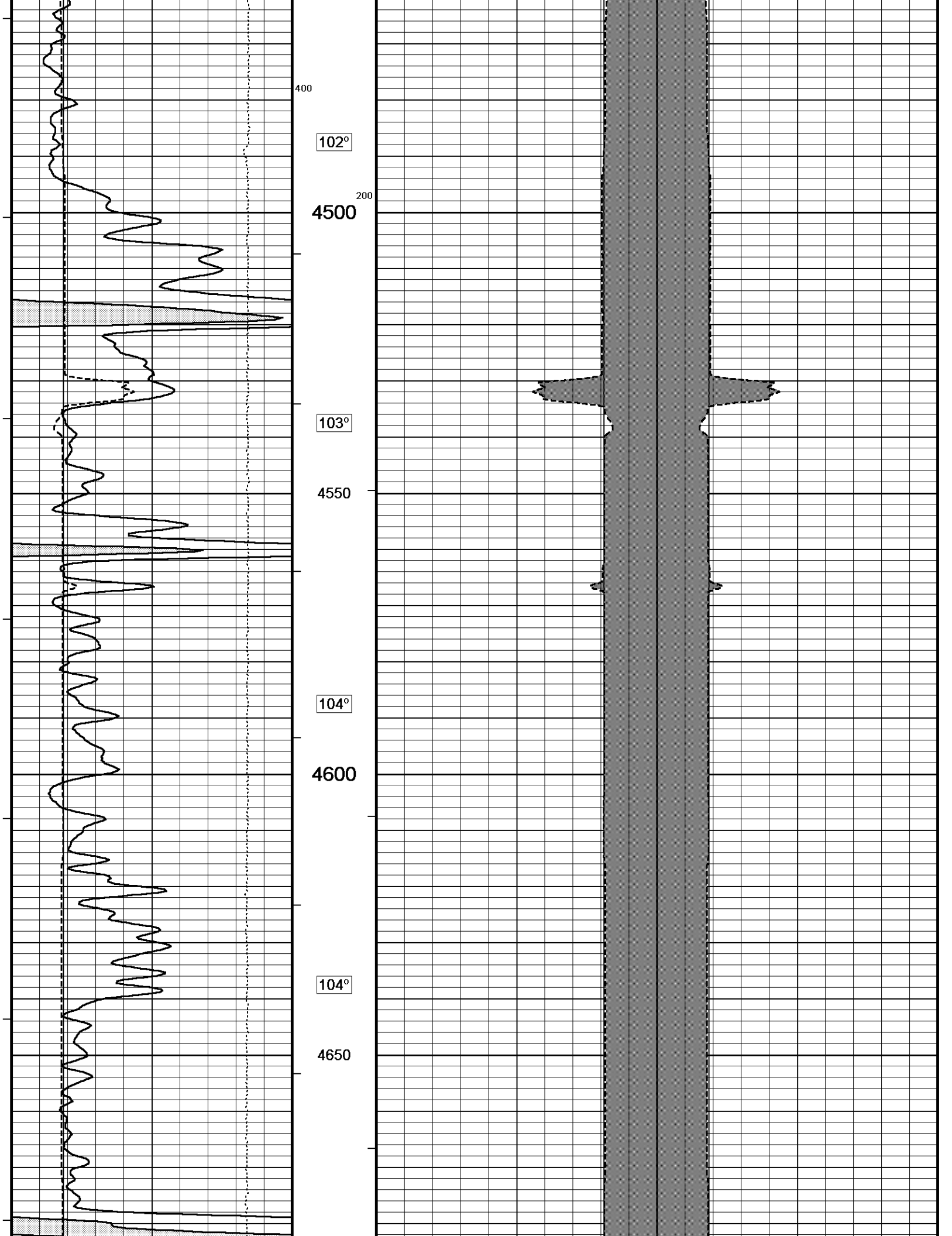
Filename: C:\Minimus 13.08.2113\Logs\MCCOY SCHMI...\Copy of MCCOY SCHMIDT C 7-39 MAIN.dta

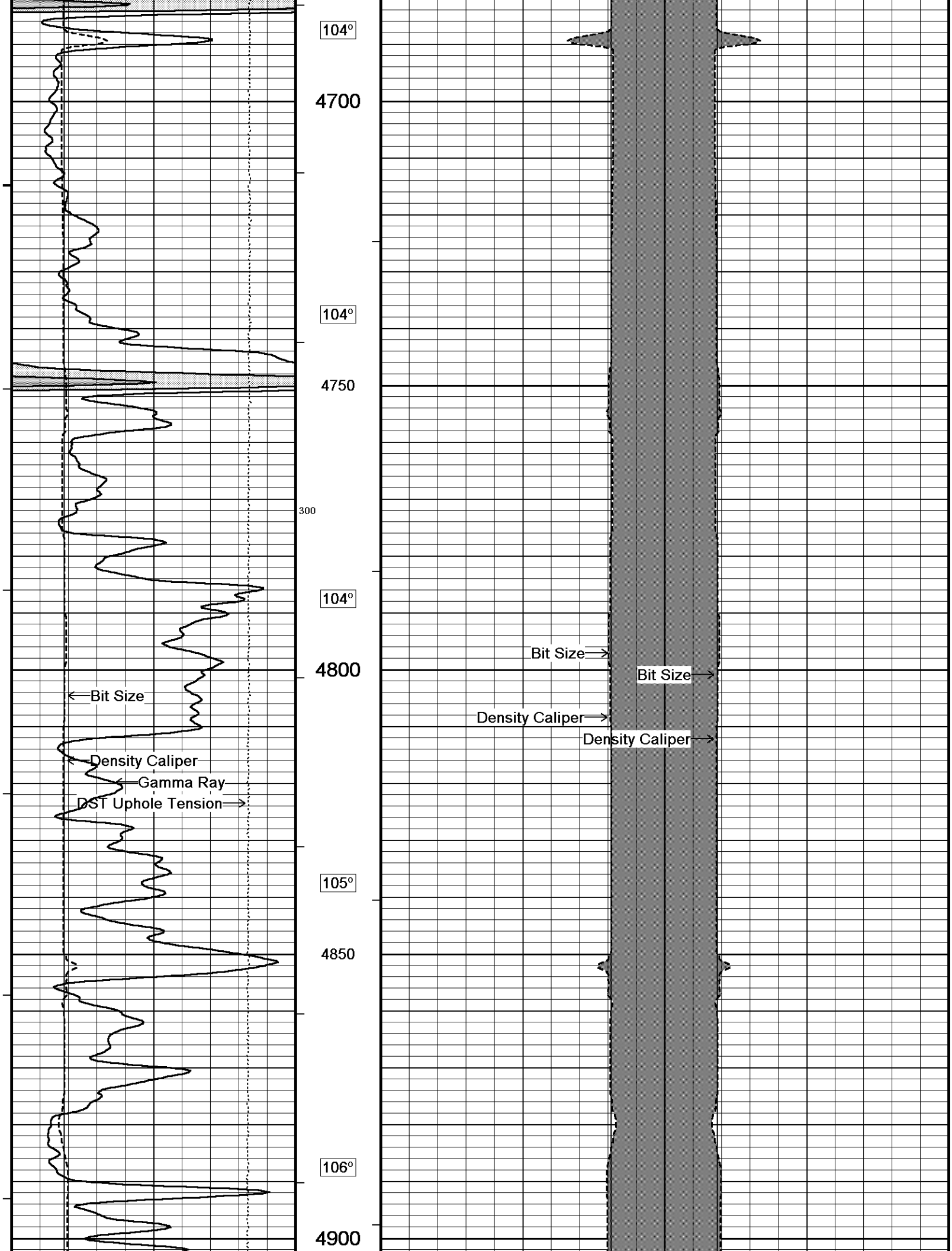
System Versions: Logged with 13.08.2113 Processed with 13.08.2113 Plotted with 13.08.2113

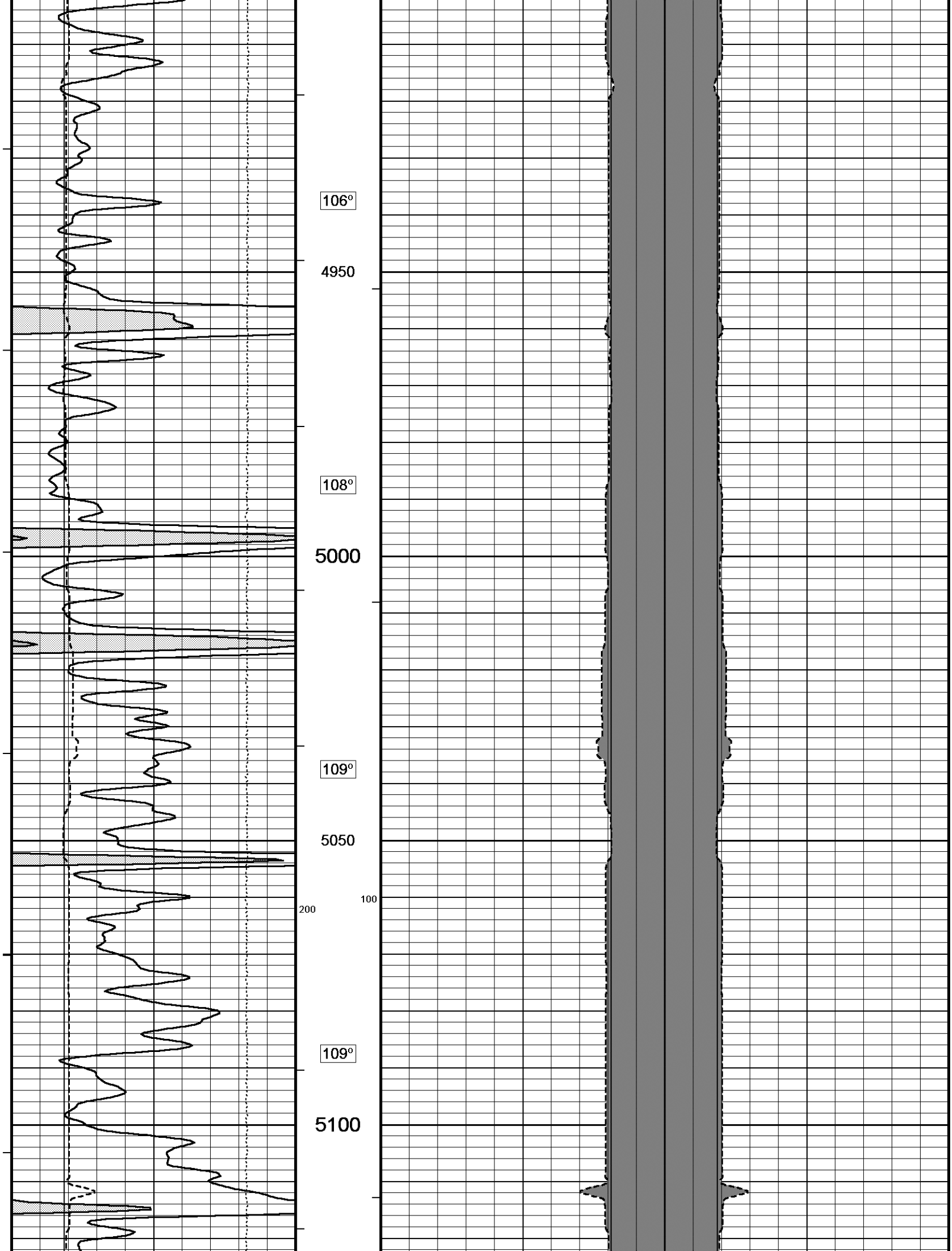


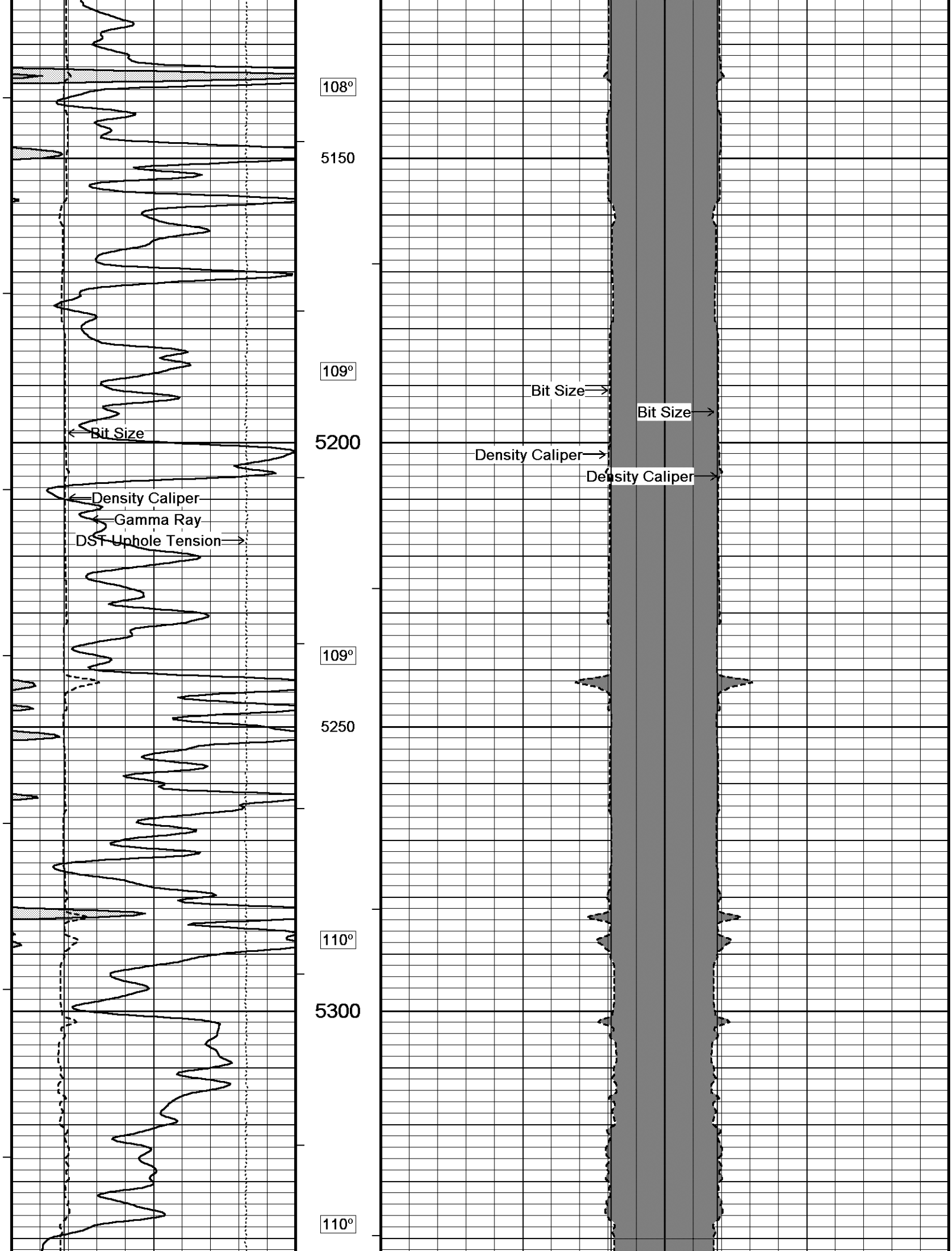

Density Caliper
Gamma Ray
DST Uphole Tension
100°
4050
100°
4100
100°
4150
500
100°
4200
100°
Density Caliper

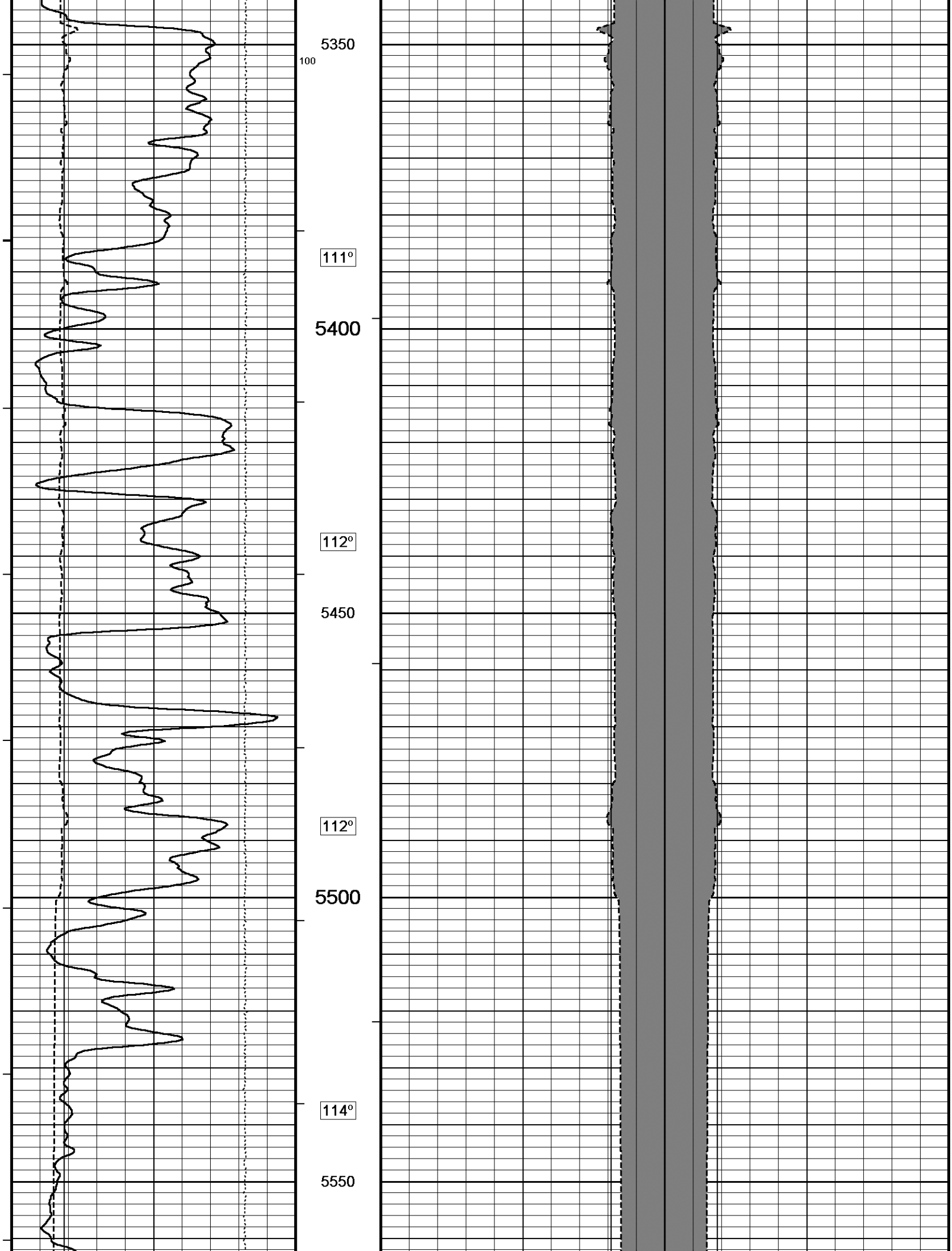

4250
101°
4300
101°
4350
102°
4400
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
102°
4450
Bit Size
Bit Size
Density Caliper
Density Caliper

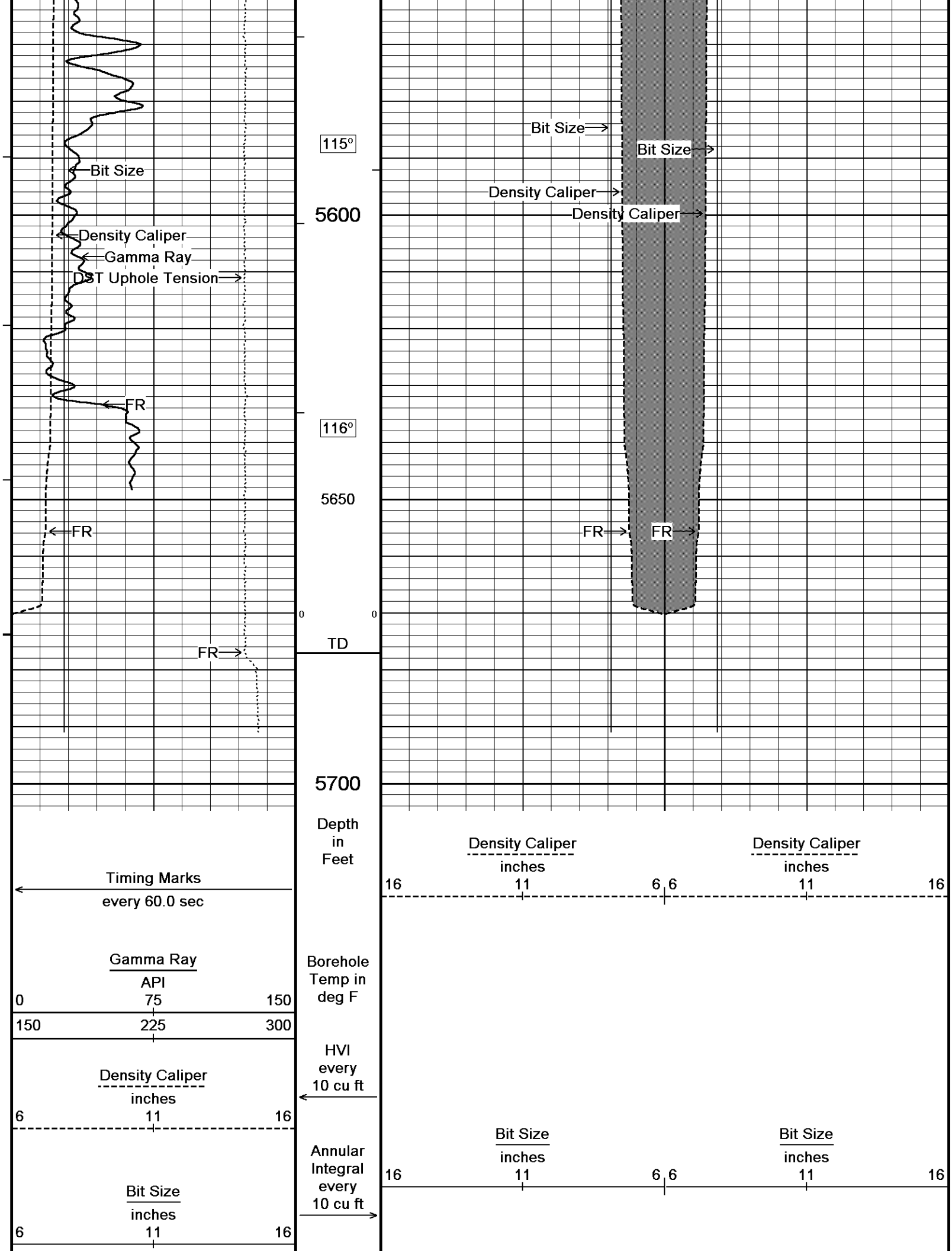

400
102°
200
4500
103°
4550
104°
4600
104°
4650


104°
4700
104°
4750
300
104°
4800
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
105°
4850
106°
4900
Bit Size
Bit Size
Density Caliper
Density Caliper


106°
4950
108°
5000
109°
5050
200
100
109°
5100


108°
5150
109°
Bit Size
Bit Size
5200
Density Caliper
Density Caliper
Gamma Ray
DST Uphole Tension
Bit Size
Density Caliper
109°
5250
110°
5300
110°


5350
100
111°
5400
112°
5450
112°
5500
114°
5550


Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
FR
FR
FR
115°
116°
5600
5650
5700
0
0
TD
Bit Size
Bit Size
Density Caliper
Density Caliper
FR
FR
Depth
in
Feet
Timing Marks
every 60.0 sec
Gamma Ray
API
0
75
150
150
225
300
Density Caliper
inches
6
11
16
Bit Size
inches
6
11
16
Borehole
Temp in
deg F
HVI
every
10 cu ft
Annular
Integral
every
10 cu ft
Density Caliper
inches
16
11
6
6
Density Caliper
inches
11
16
Bit Size
inches
16
11
6
6
Bit Size
inches
11
16

DST Uphole Tension
pounds
5000 0

Replay
Scale
1:240

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 11-FEB-2014 19:43
Filename: C:\Minimus 13.08.2113\Logs\MCCOY SCHMI...\Copy of MCCOY SCHMIDT C 7-39 MAIN.dta
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DOWNHOLE EQUIPMENT

C:\Minimus 13.08.2113\Logs\MCCOY SCHMIDT C 7-29\MCCOY SCHMIDT C 7-39 REPEAT.dta

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

Compact Comms Gamma
MCG-D.K 443 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity
MMR-C.A 248 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in

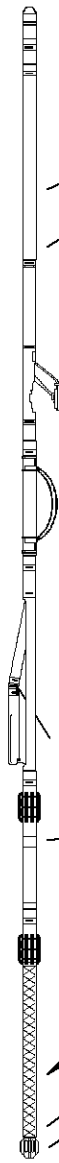
Compact Neutron
MDN-B.J 387 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper
MPD-B 64 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Focussed Electric
MFE-A.A 55 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction
MAI-A.A 5 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 51.18 ft Weight: 407.9 lb



43.50 ft	GRGC - Gamma Ray
40.59 ft	CGXT - MCG External Temperature
33.24 ft	MINV - MMR MicroLog Inverse
33.24 ft	MNRL - MMR MicroLog Normal
28.45 ft	NPRL - Limestone Neutron Por.
21.21 ft	CLDC - Density Caliper
21.21 ft	AVOL - Annular Volume
21.21 ft	HVOL - Hole Volume
19.28 ft	DPRL - Limestone Density Por.
19.28 ft	DEN - Compensated Density
19.28 ft	DCOR - Density Correction
19.22 ft	PDPE - PE
13.72 ft	FEFE - Shallow FE
3.34 ft	R40O - Array Ind. One Res 40
3.34 ft	R60O - Array Ind. One Res 60
3.34 ft	RTAO - Array Ind. One Res Rt
0.23 ft	SPCG - Spontaneous Potential
Tool Zero	(0.13ft from bottom)
-0.13 ft	SMTU - DST Uphole Tension

All measurements relative to tool zero.

BEFORE SURVEY CALIBRATION

C:\Minimus 13.08.2113\Logs\MCCOY SCHMIDT C 7-29\MCCOY SCHMIDT C 7-39 REPEAT.dta

General Constants All 000
Last Edited on 11-FEB-2014,17:04

General Parameters

Mud Resistivity	1.300	ohm-metres
Mud Resistivity Temperature	70.000	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	5.500	inches
Caliper for Differential Caliper	MMR Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

Gamma Calibration MCG-D.K 443

Field Calibration on 01-FEB-2014 16:05

	Measured	Calibrated (API)
Background	72	48
Calibrator (Gross)	1170	773
Calibrator (Net)	1098	725

Gamma Constants MCG-D.K 443

Last Edited on 11-FEB-2014,16:24

Gamma Calibrator Number	GRC038	
Mud Density	1.05	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MCG-D.K 443

Field Calibration on 21-JAN-2014,16:09

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MCG-D.K 443

Last Edited on 23-JAN-2014,17:11

Pre-filter Length	11

Caliper Calibration MPD-B 64

Base Calibration on 21-JAN-2014 12:58
Field Calibration on 01-FEB-2014 15:39

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	16591	3.99
2	25434	5.98
3	34292	7.97
4	42640	9.86
5	51901	11.92
6	N/A	N/A

Field Calibration

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

COMPANY	MCCOY PETROLEUM CORPORATION
WELL	SCHMIDT C 7-29
FIELD	LETTE SE
PROVINCE/COUNTY	HASKELL
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2860.00	feet	First Reading	5656.00	feet
Elevation Drill Floor	2858.00	feet	Depth Driller	5671.00	feet
Elevation Ground Level	2849.00	feet	Depth Logger	5677.00	feet