



Weatherford

CALIPER LOG

COMPANY			McCOY PETROLEUM CORPORATION		
WELL			SCHWAB "A" 1-7		
FIELD			WILDCAT		
PROVINCE/COUNTY			MEADE		
COUNTRY/STATE			U.S.A. / KANSAS		
LOCATION			1980' FSL & 330' FEL		
SEC 7	TWP 30S	RGE 30W	Other Services		MAI/MFE
Latitude		MPD/MDN			
Longitude					
API Number		15-119-21362			
Permanent Datum GL, Elevation 2814 feet					
Log Measured From KB					
Drilling Measured From KB			Elevations: KB 2825.00 DF 2823.00 GL 2814.00		
Date	14-MAR-2014				
Run Number	ONE				
Service Order	7557-81970693				
Depth Driller	5550.00		feet		
Depth Logger	5549.00		feet		
First Reading	5549.00		feet		
Last Reading	4000.00		feet		
Casing Driller	1829.00		feet		
Casing Logger	1828.00		feet		
Bit Size	7.875		inches		
Hole Fluid Type	CHEMICAL				
Density / Viscosity	9.30 lb/USg		50.00 CP		
PH / Fluid Loss	10.50		8.80 ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	1.21 @ 93.0		ohm-m		
Rmf @ Measured Temp	0.97 @ 93.0		ohm-m		
Rmc @ Measured Temp	1.45 @ 93.0		ohm-m		
Source Rmf / Rmc	CALC	CALC			
Rm @ BHT	0.96 @117.0		ohm-m		
Time Since Circulation	3 HOURS				
Max Recorded Temp	117.00		deg F		
Equipment / Base	13244	LIB			
Recorded By	RUSSELL POGUE		JEFFREY RANDLE		
Witnessed By	DAVE WILLIAMS				
JOB #	LIB14-076				

BOREHOLE RECORD

Last Edited: 14-MAR-2014 03:04

Bit Size inches	Depth From feet	Depth To feet
7.875	1829.00	5550.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1829.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 13.08.211.
- RUN ONE: MCG, MML, MDN, MPD, MFE AND 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 4000 FEET: 529 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 4000 FEET: 275 CU.FT.
- RIG: STERLING DRILLING #2

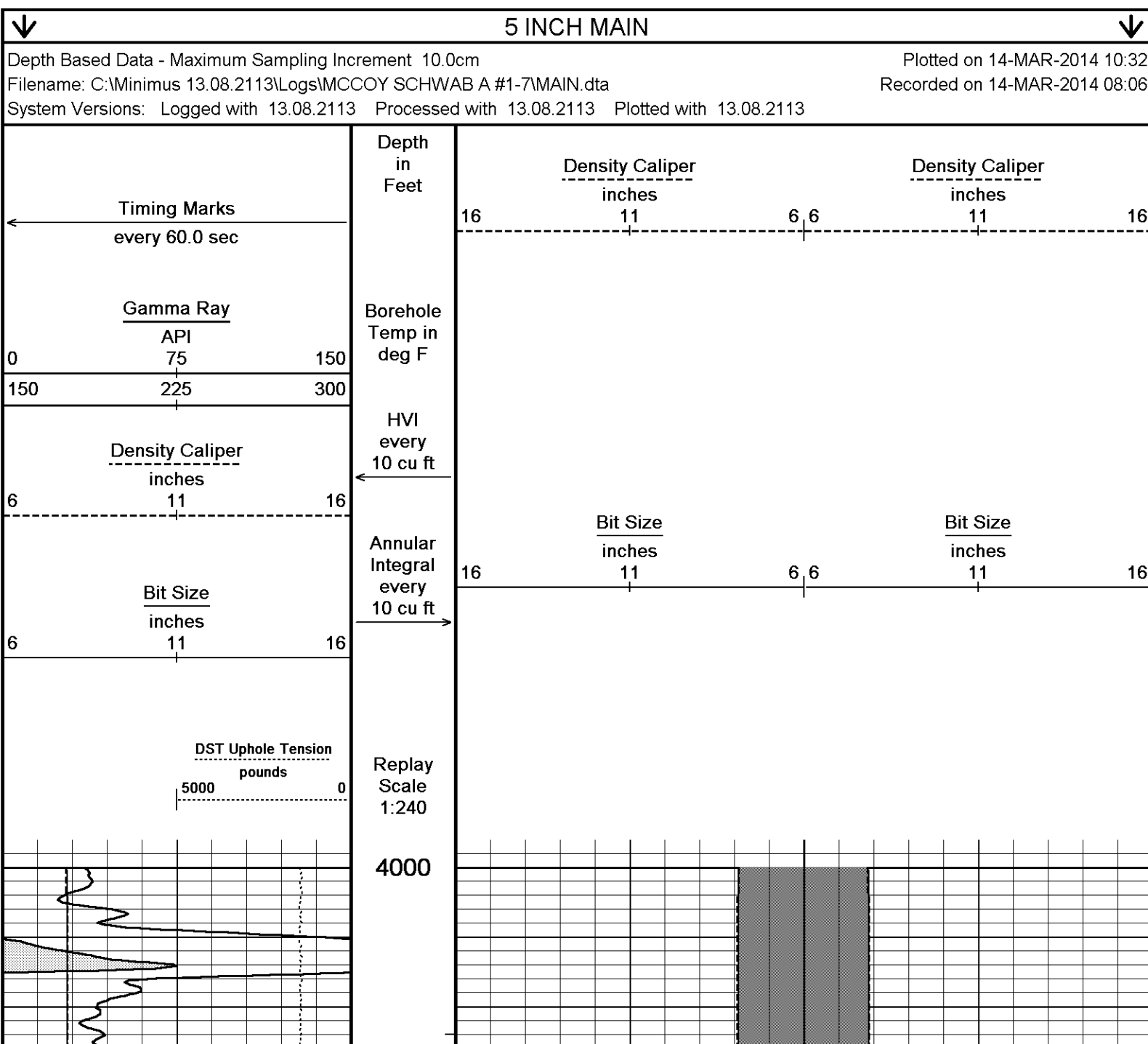
RIG: OPERING DRILLING #2:

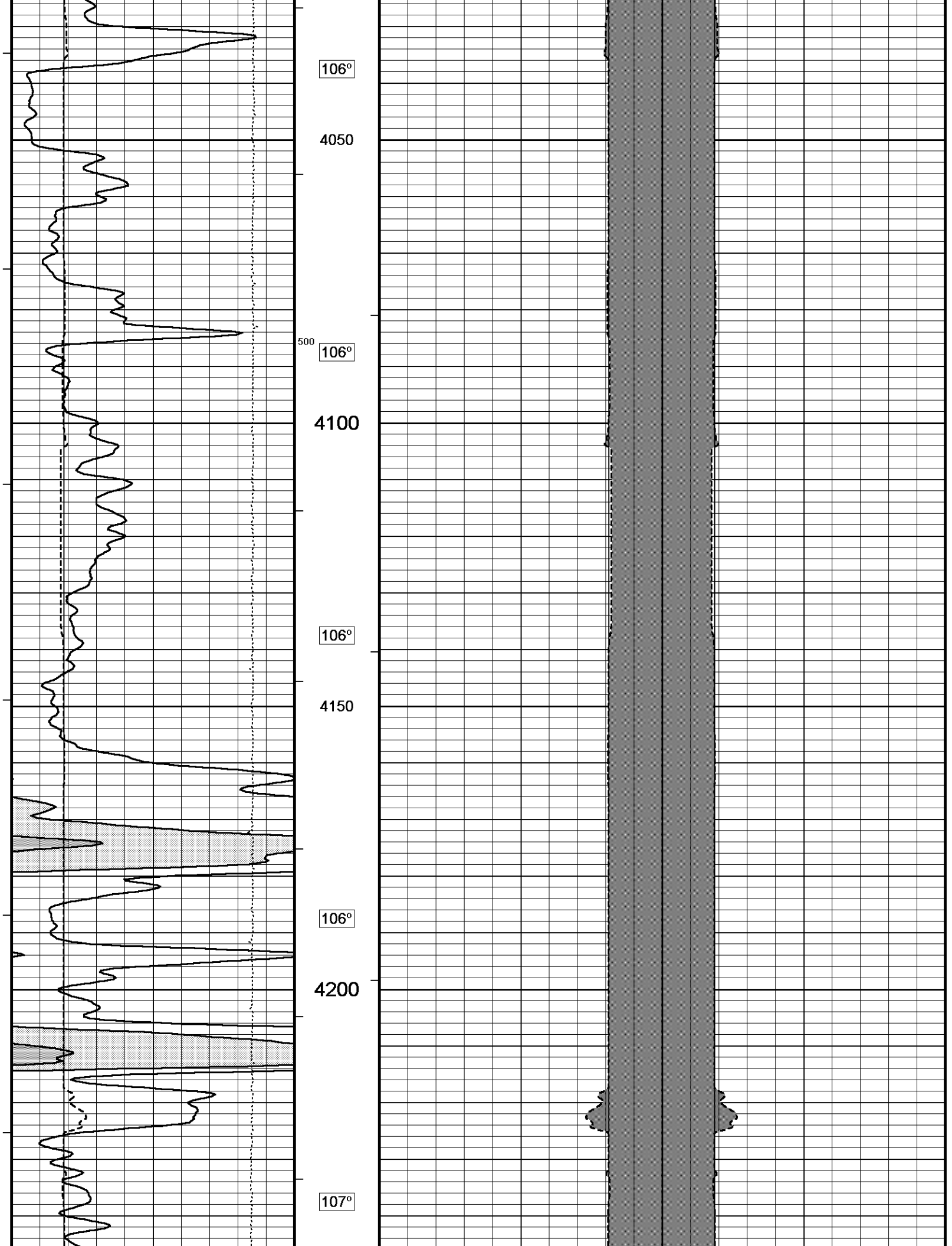
- ENGINEER: R. POGUE.

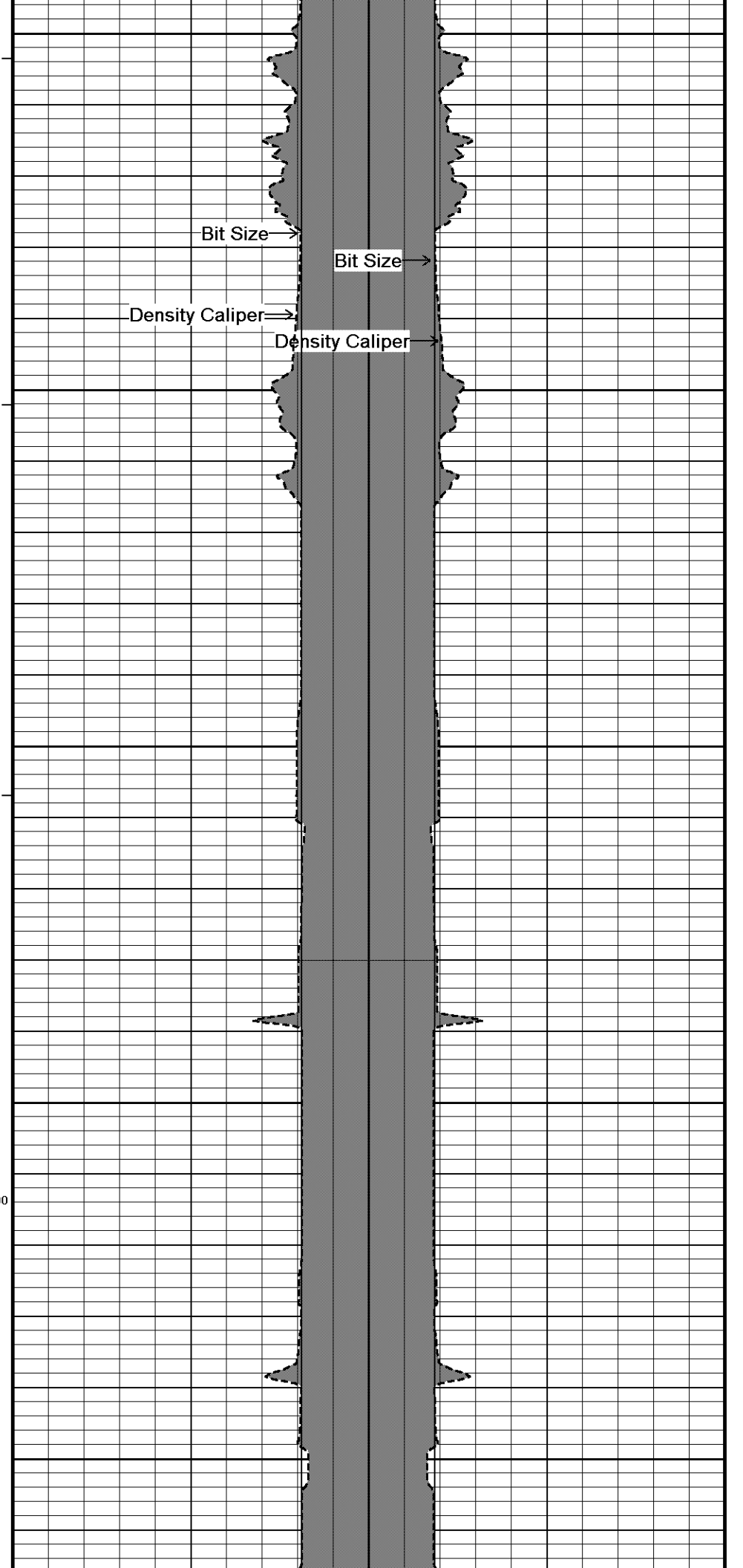
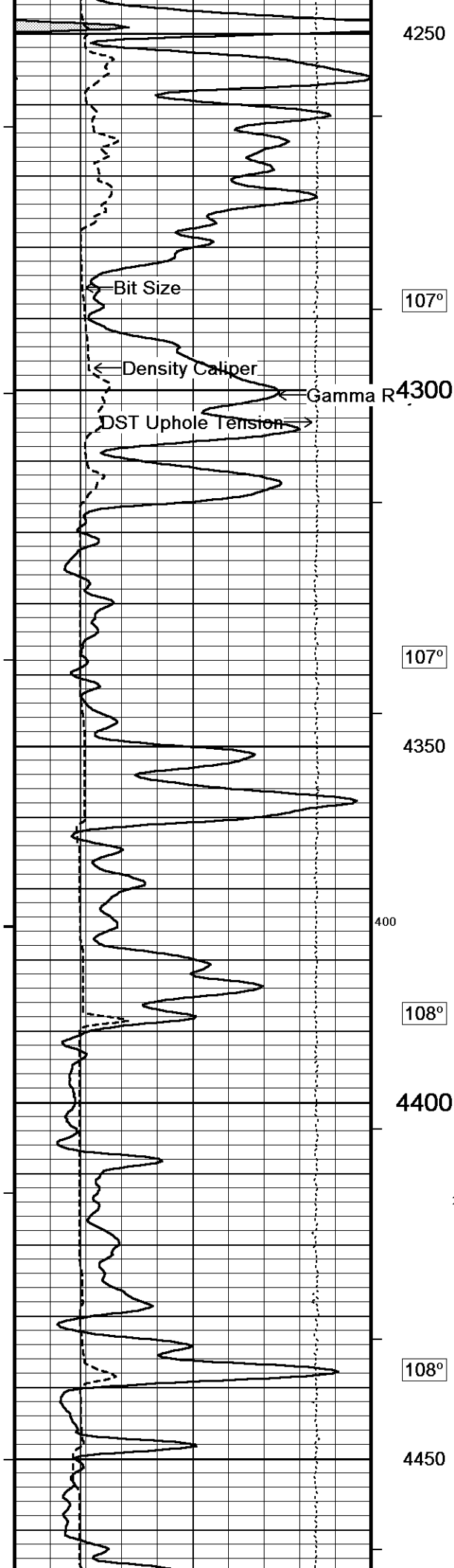
- JUNIOR FIELD ENGINEER: J. RANDLE.

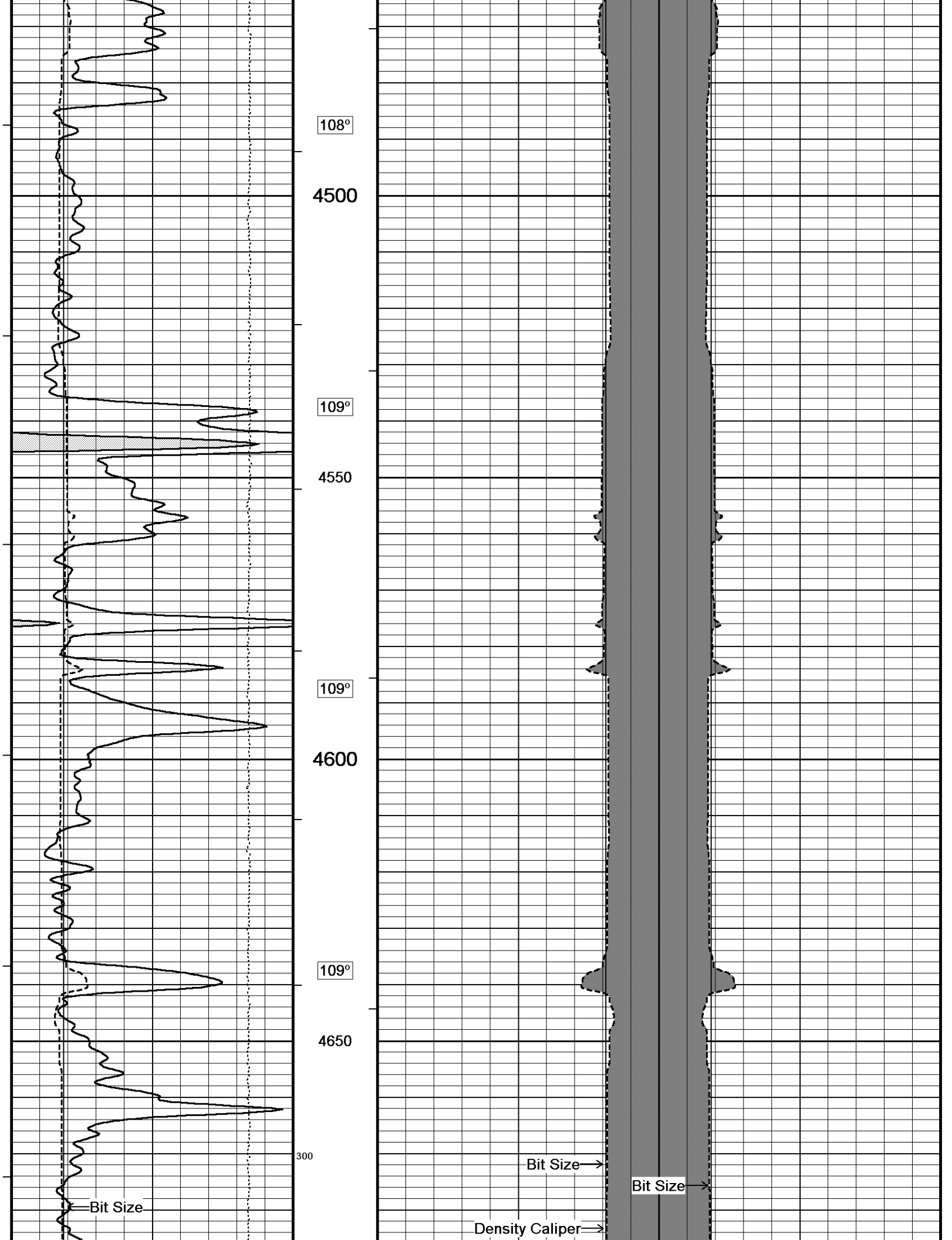
- OPERATOR: J. LaPOINT.

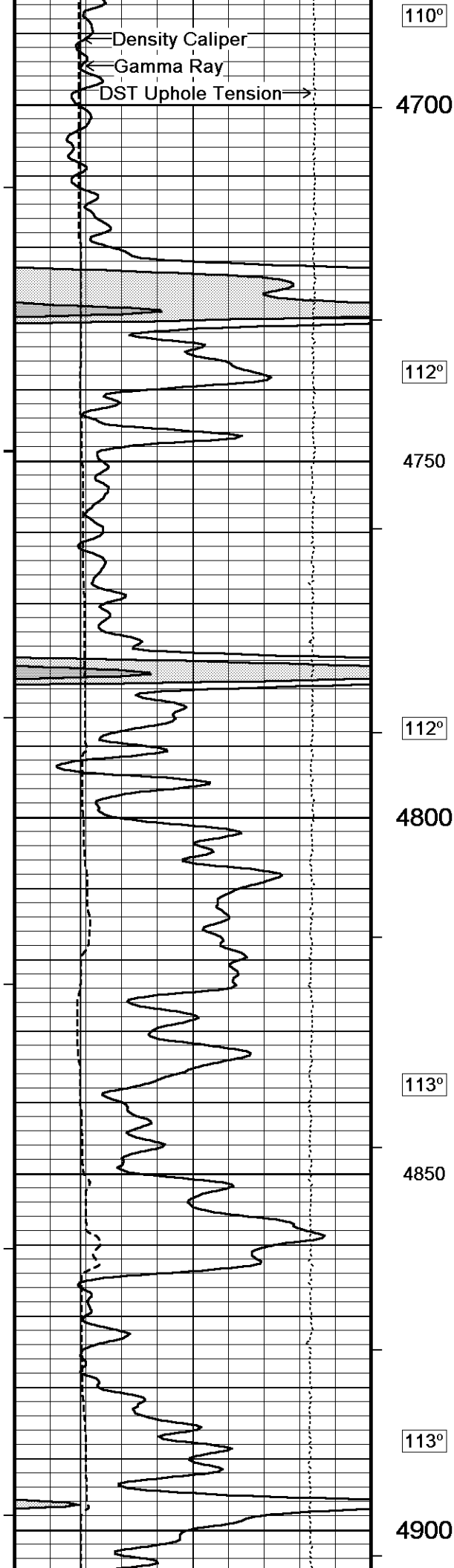
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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











110°

4700

112°

4750

112°

4800

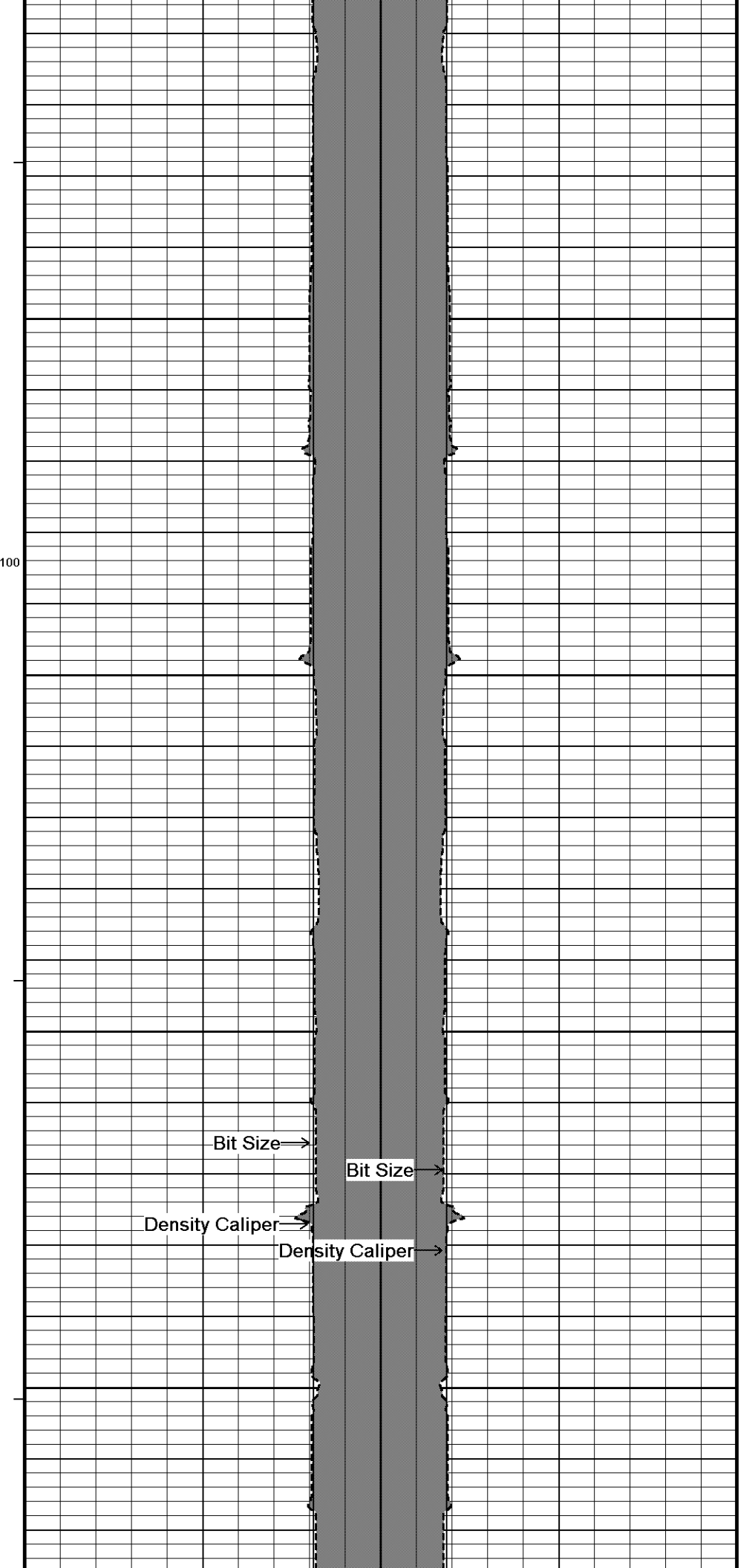
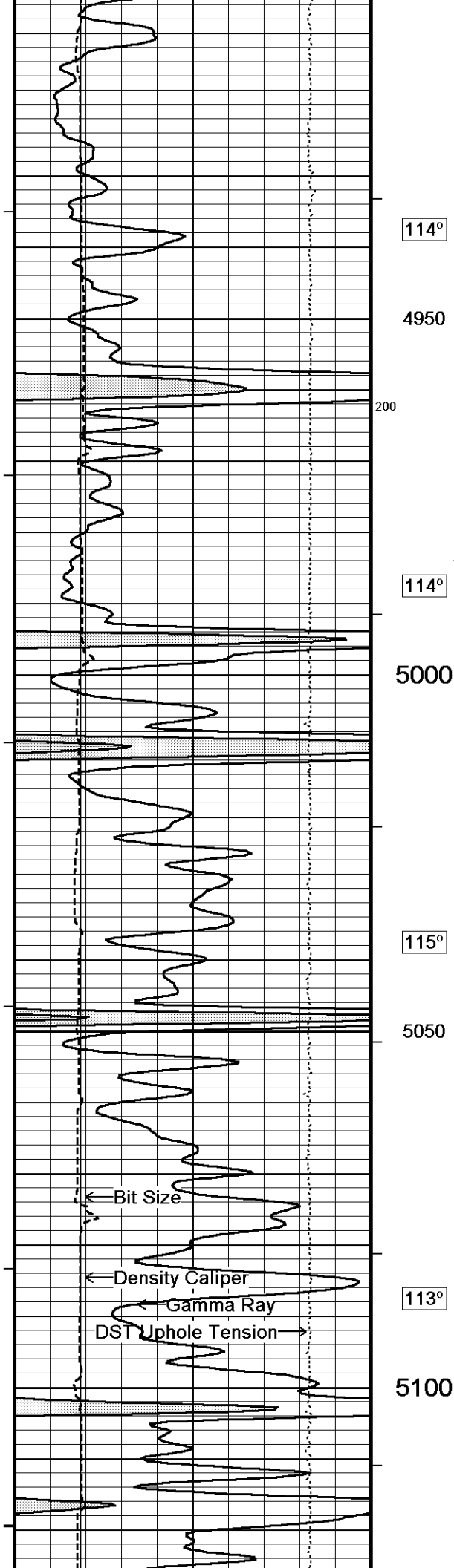
113°

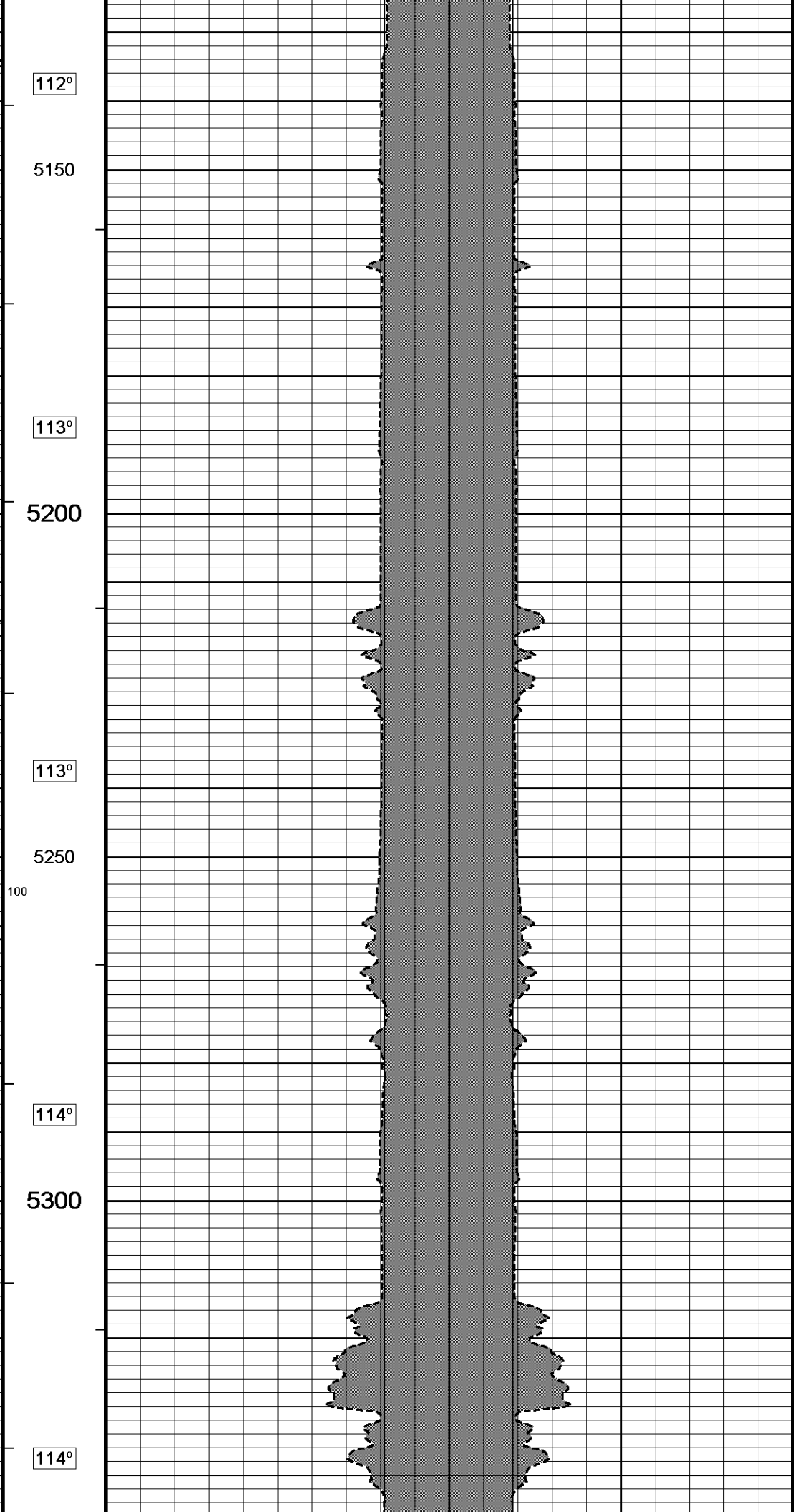
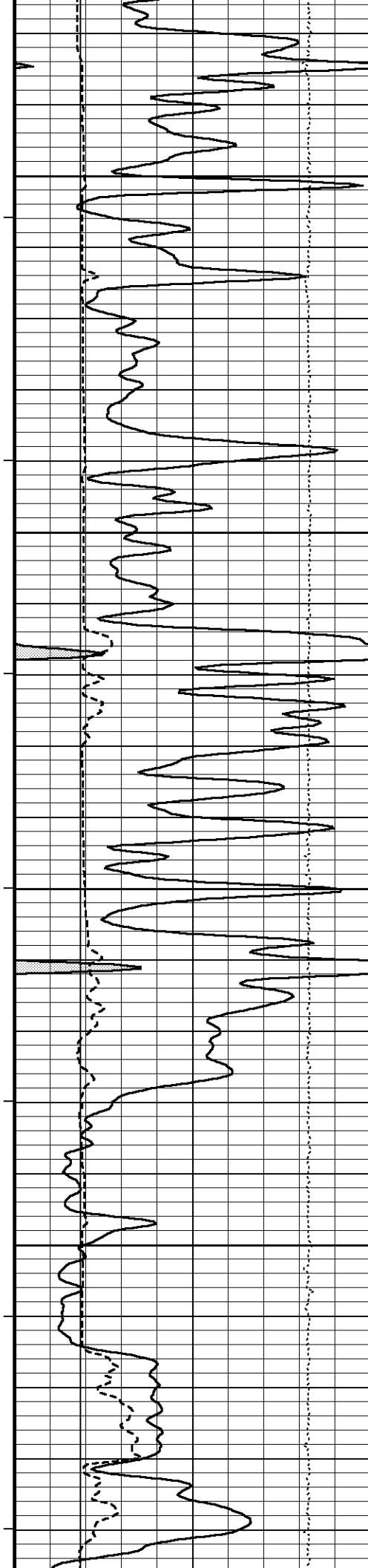
4850

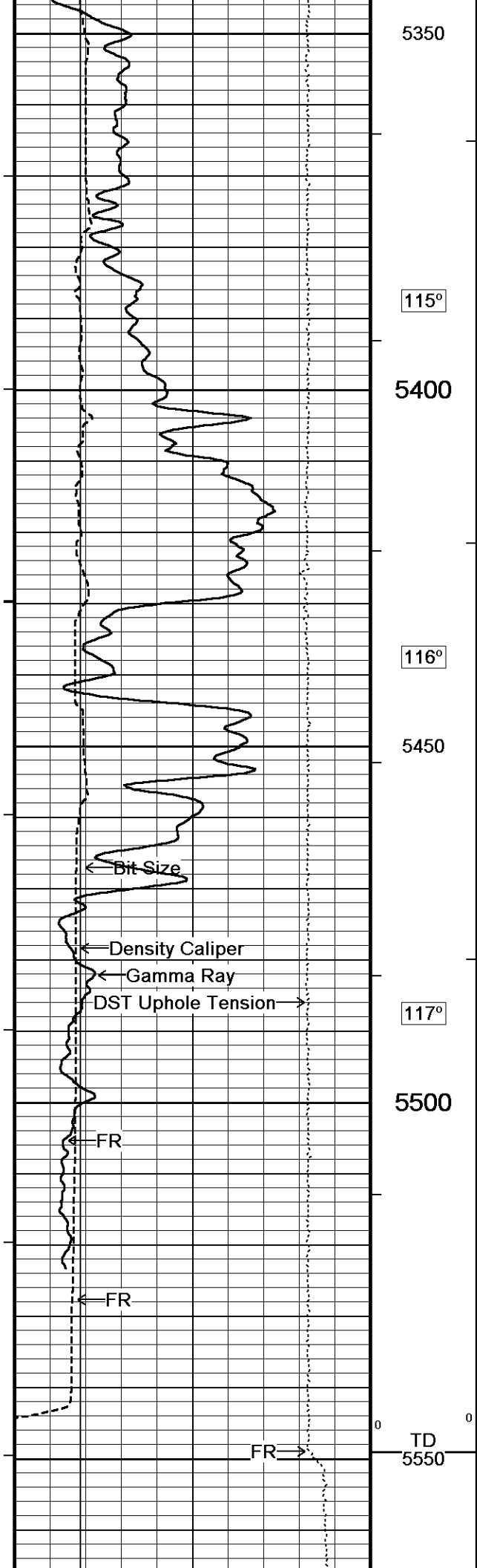
113°

4900

Density Caliper →







5350

115°

5400

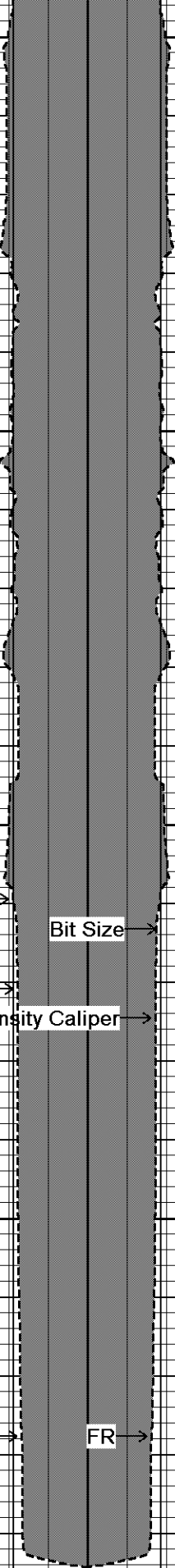
116°

5450

117°

5500

TD
5550



Bit Size

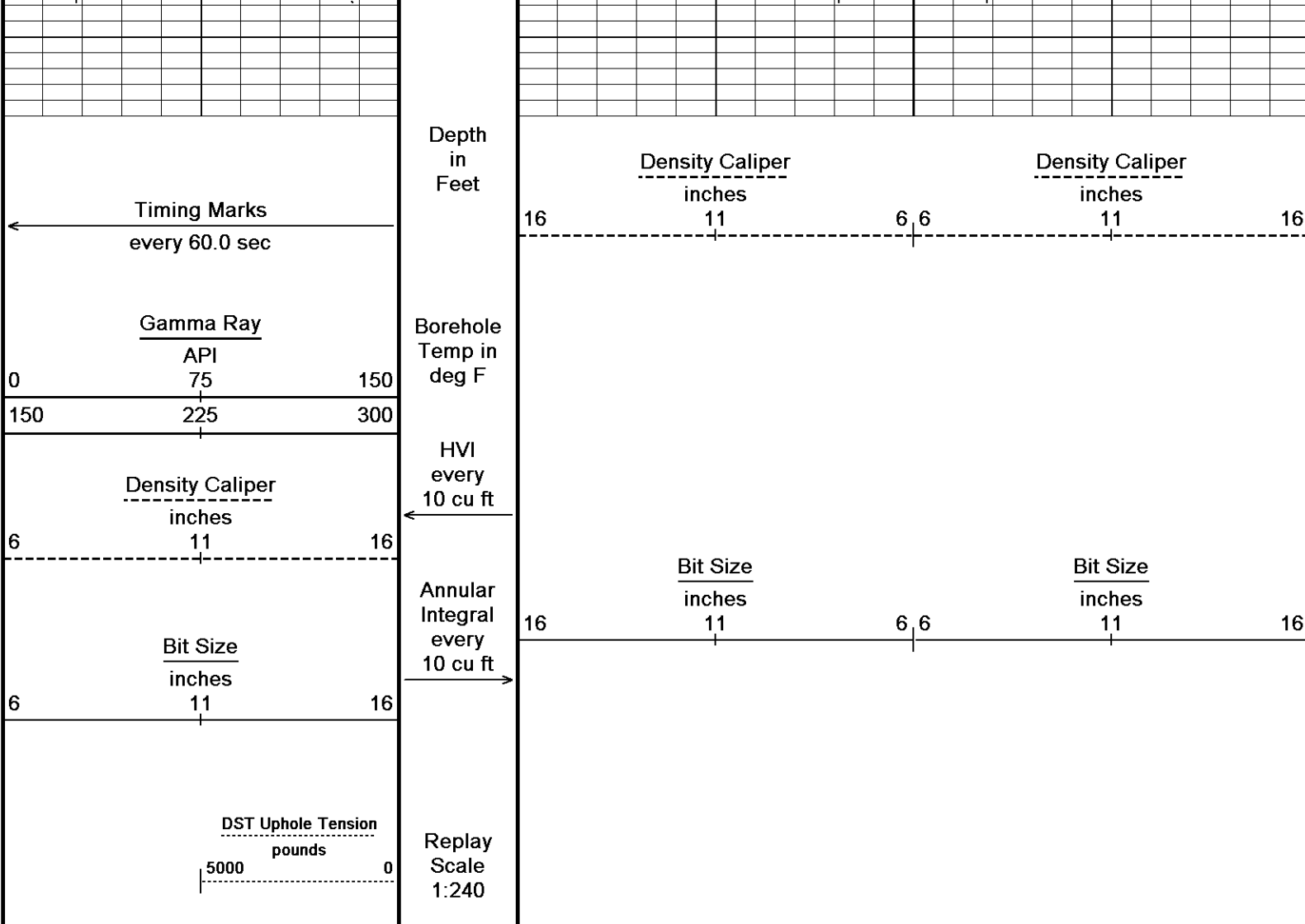
Bit Size

Density Caliper

Density Caliper

FR

FR



Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 14-MAR-2014 10:32
 Filename: C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\MAIN.dta
 Recorded on 14-MAR-2014 08:06
 System Versions: Logged with 13.08.2113 Processed with 13.08.2113 Plotted with 13.08.2113

↑ 5 INCH MAIN ↑

DOWNHOLE EQUIPMENT

C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\MAIN.dta

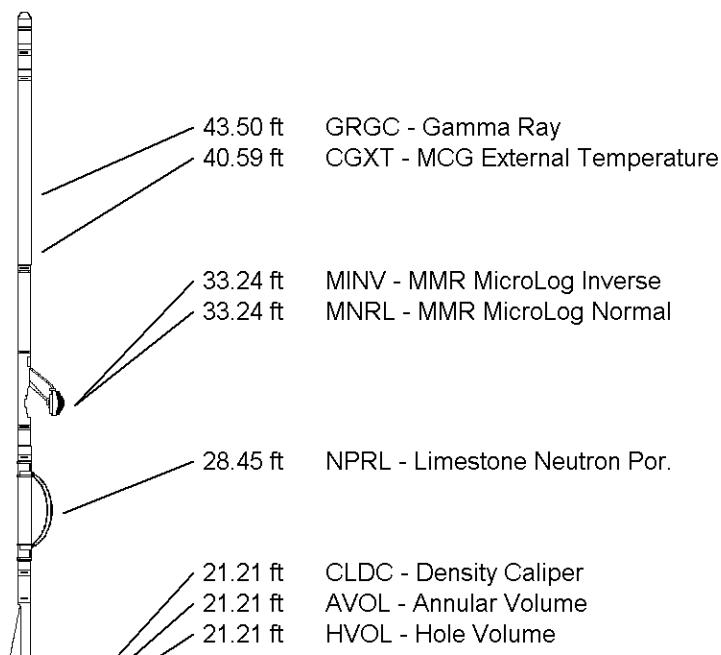
CBH-C, Cablehead, 11 pin
 CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

Compact Comms Gamma
 MCG-C 150 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity
 MMR-A 11 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

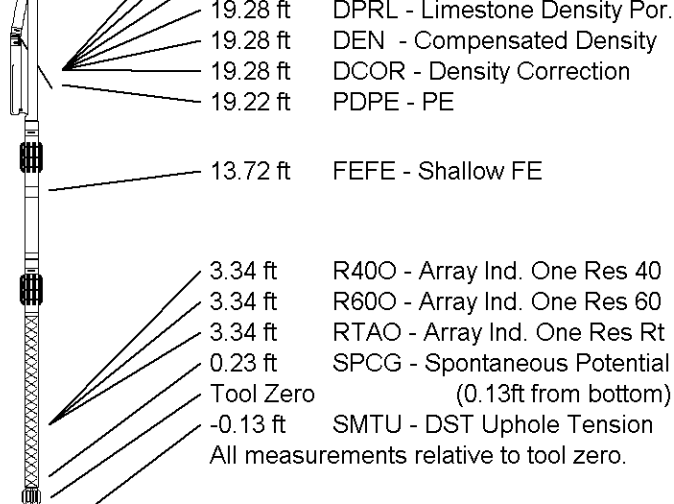
Compact Density/Caliper
 MPD-B 64 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in



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



BEFORE SURVEY CALIBRATION

C:\Minimus 13.08.2113\Logs\MCCOY SCHWAB A #1-7\MAIN.dta

General Constants All 000

Last Edited on 14-MAR-2014,07:36

General Parameters

Mud Resistivity	1.210	ohm-metres
Mud Resistivity Temperature	93.000	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	None	

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-C 150

Field Calibration on 12-MAR-2014 16:55

	Measured	Calibrated (API)
Background	69	47
Calibrator (Gross)	1144	772
Calibrator (Net)	1075	725

Gamma Constants MCG-C 150

Last Edited on 14-MAR-2014,03:09

Gamma Calibrator Number	GRC038	
Mud Density	1.12	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Eccentred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MCG-C 150

Field Calibration on 08-MAR-2014,10:59

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

High Resolution Temperature Constants MCG-C 150

Last Edited on 08-MAR-2014,10:59

Pre-filter Length	11
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Base Calibration

Reading No

Measured

Calibrator Size (in)

1	16976	3.99
2	26016	5.98
3	34528	7.97
4	42943	9.86
5	52224	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)

Actual Caliper (in)

8.02	7.98
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COMPANY McCOY PETROLEUM CORPORATION

WELL SCHWAB "A" 1-7

FIELD WILDCAT

PROVINCE/COUNTY MEADE

COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	2825.00	feet
Elevation Drill Floor	2823.00	feet
Elevation Ground Level	2814.00	feet

First Reading	5549.00	feet
Depth Driller	5550.00	feet
Depth Logger	5549.00	feet

**Weatherford®**

CALIPER LOG