



Weatherford

MICRORESISTIVITY LOG

COMPANY				MCCOY PETROLEUM CORP.			
WELL				YOST 'G' #1-18			
FIELD				WILDCAT			
PROVINCE/COUNTY				GRAY			
COUNTRY/STATE				U.S.A. / KANSAS			
LOCATION				660' FNL & 2280' FEL			
SEC	TWP	RGE	Other Services				
18	27S	29W	MPD/MDN				
API Number		15-069-20419		MAI/MFE			
Permit Number							
Permanent Datum G.L., Elevation 2750 feet					Elevations:		
Log Measured From KB					KB		
Drilling Measured From K.B.					DF		
Date	29-DEC-2012				GL		
Run Number	ONE						
Service Order	3538965						
Depth Driller	5250.00				feet		
Depth Logger	5249.00				feet		
First Reading	5216.00				feet		
Last Reading	3900.00				feet		
Casing Driller	1827.00				feet		
Casing Logger	1829.00				inches		
Bit Size	7.875						
Hole Fluid Type	CHEMICAL				lb/USg		
Density / Viscosity	9.25		lb/USg		53.00		CP
PH / Fluid Loss	10.50				10.50		
Sample Source	FLOWLINE						
Rm @ Measured Temp	0.54 @ 90.0				ohm-m		
Rmf @ Measured Temp	0.43 @ 90.0				ohm-m		
Rmc @ Measured Temp	0.65 @ 90.0				ohm-m		
Source Rmf / Rmc	CALC				CALC		
Rm @ BHT	0.43 @114.0				ohm-m		
Time Since Circulation	5 HOURS						
Max Recorded Temp	114.00				deg F		
Equipment / Base	13057		LIB				
Recorded By	ADAM SILL				J. LAPPOINT		
Witnessed By	EVAN STONE						
JOB#	LB12-338						

BOREHOLE RECORD					Last Edited: 29-DEC-2012 23:18
Bit Size inches		Depth From feet		Depth To feet	
7.875		1829.00		5250.00	
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 13.04.8492.
- MCG, MML, MDN, MPD, MFE, MAI RAN 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 SURFACE CASING: 1395 CU. FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO 3900: 308 CU. FT.
- RIG: STERLING #5

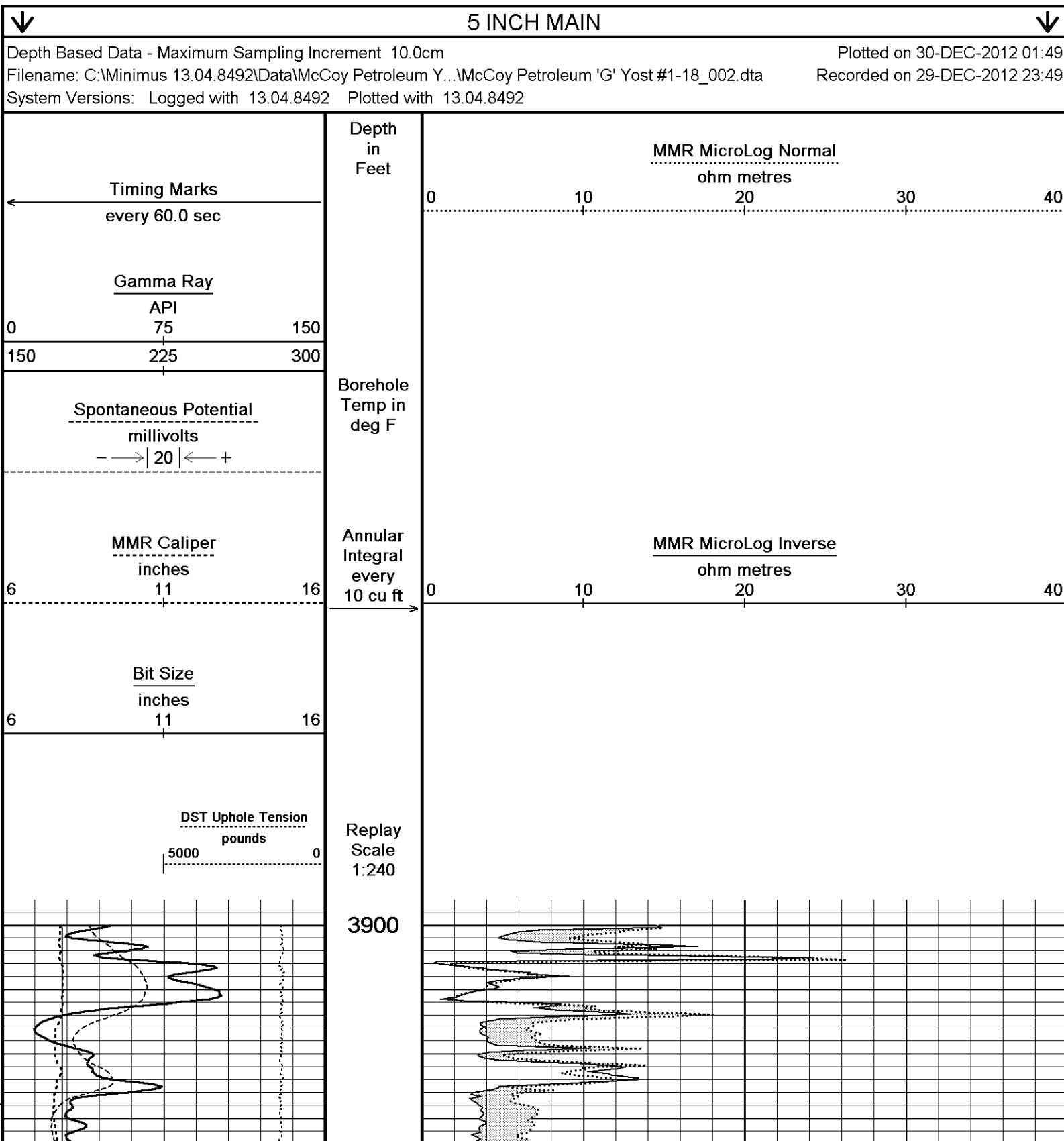
RIS: OPERING 1/3.

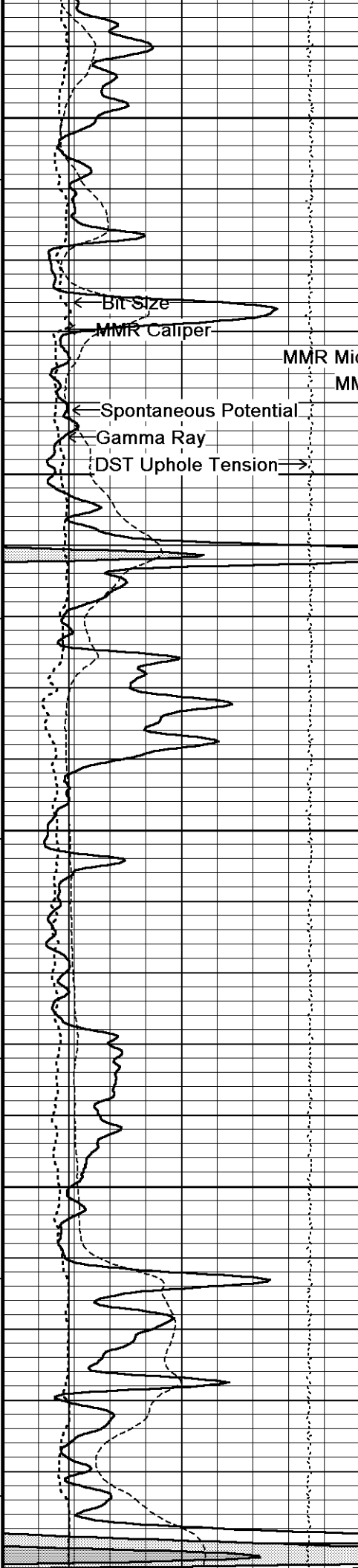
- ENGINEER: A. SILL, J. LAPOINT.

- OPERATOR(S): R. VENEGAS.

**** SOFTWARE ISSUE CHANGED FLUID LOSS TO MATCH PH. FLUID LOSS SHOULD BE 14.4 ML/30MIN. ****

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.





105°

3950

MMR MicroLog Inverse

MMR MicroLog Normal

4000

106°

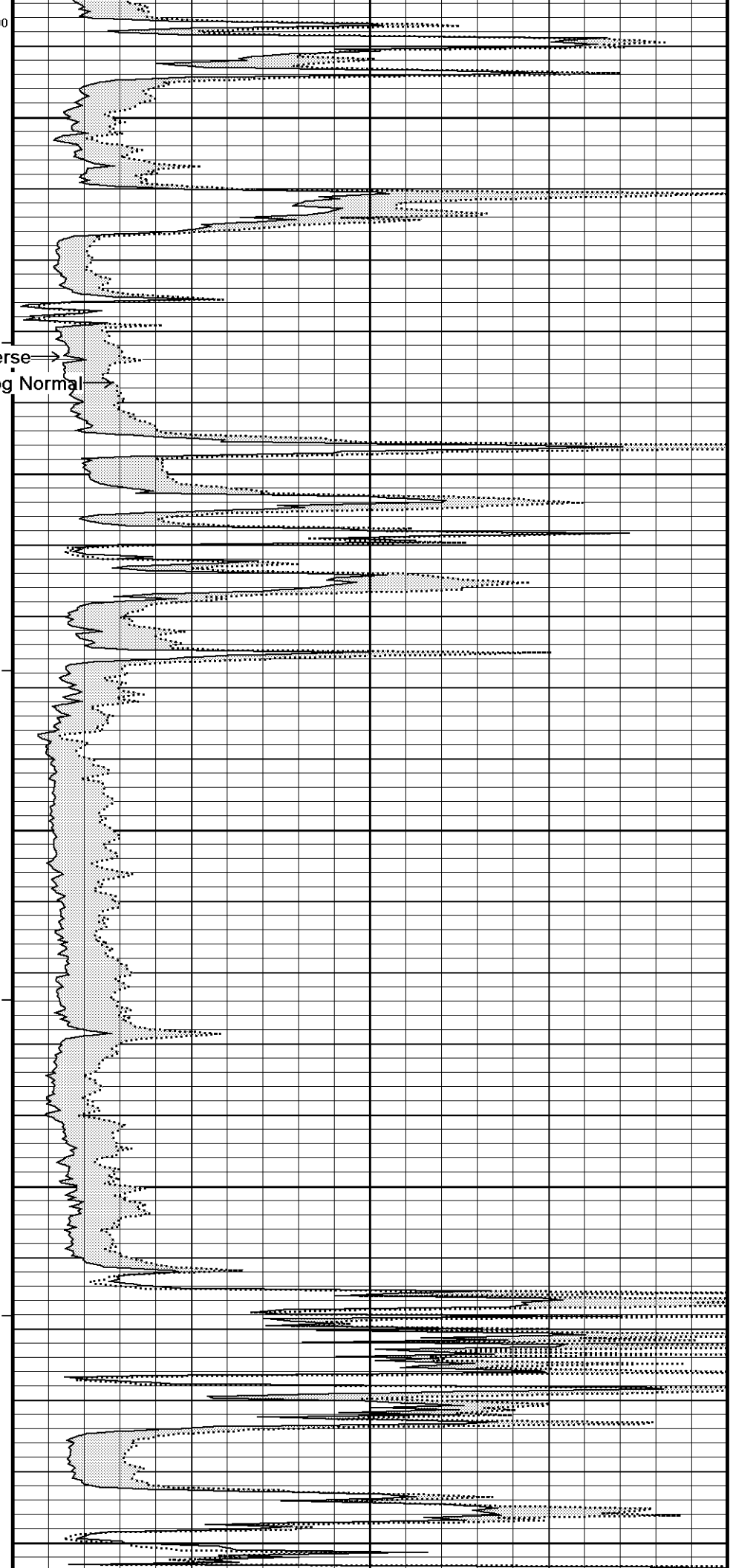
4050

107°

4100

107°

4150





107°

4200

108°

4250

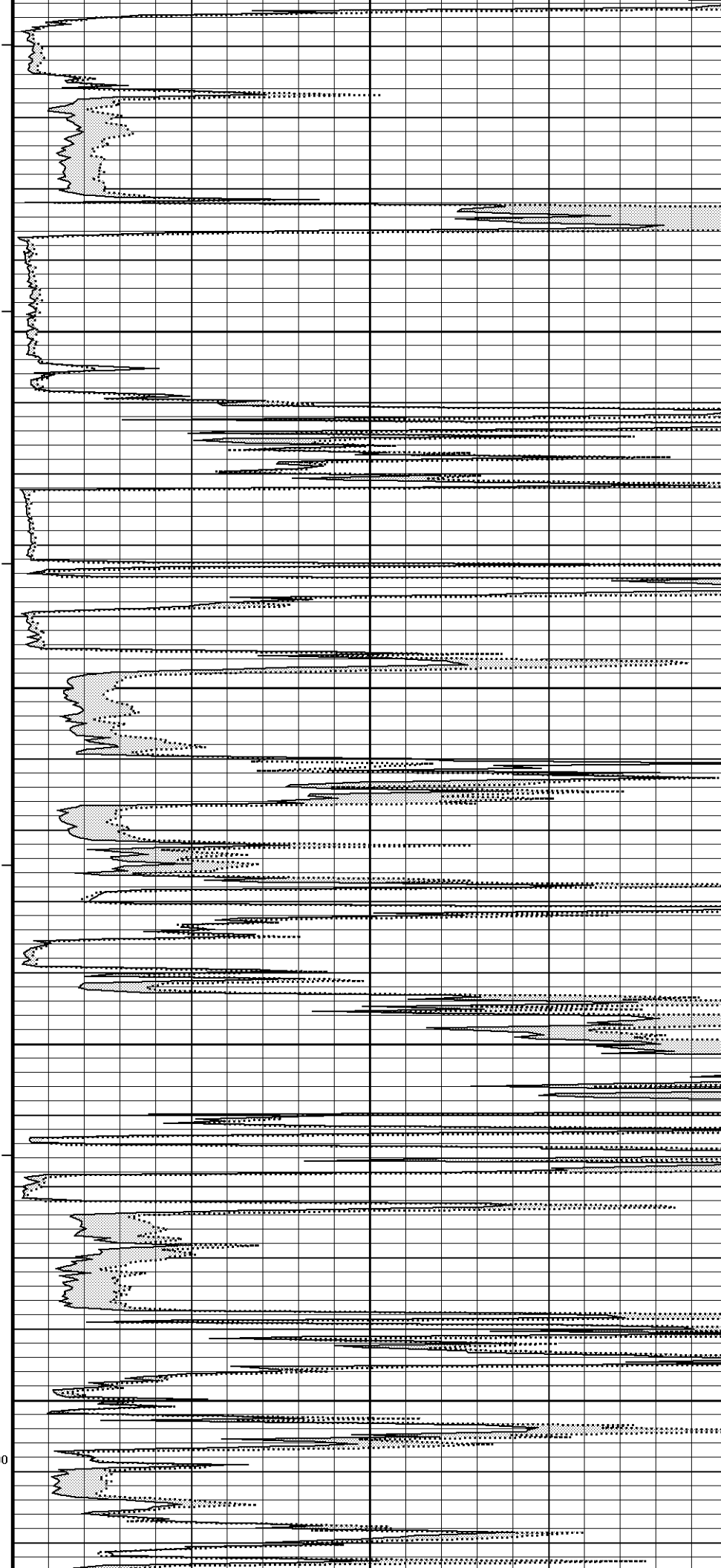
108°

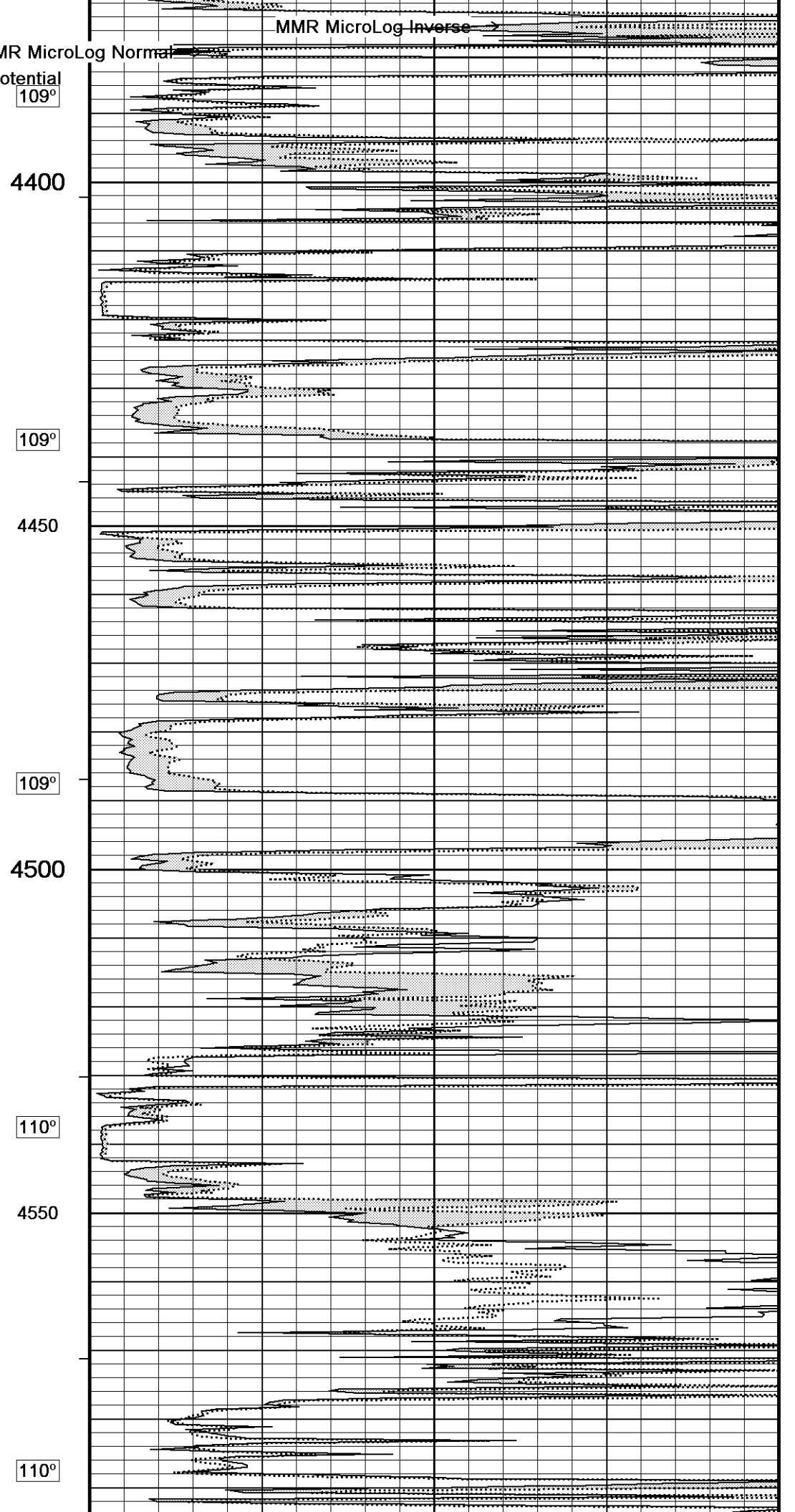
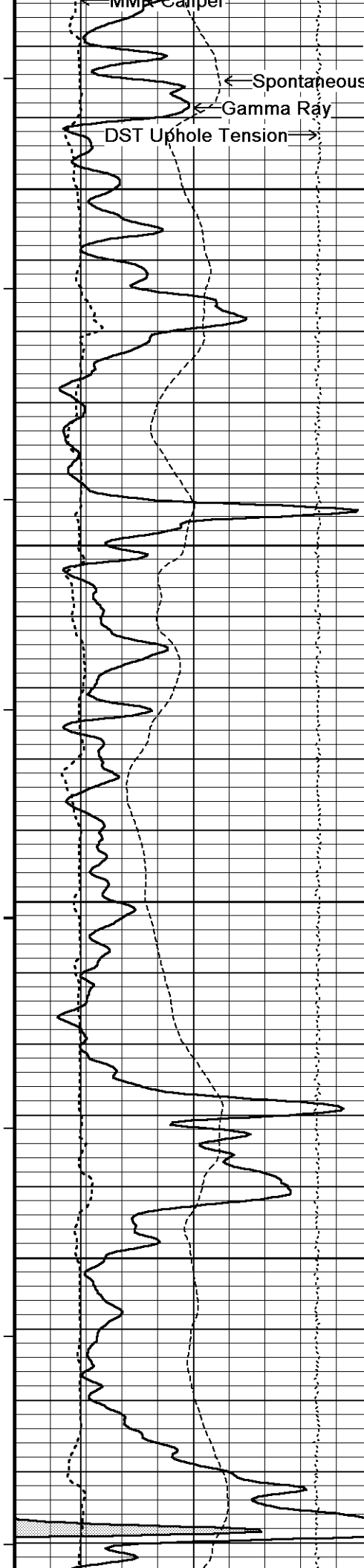
4300

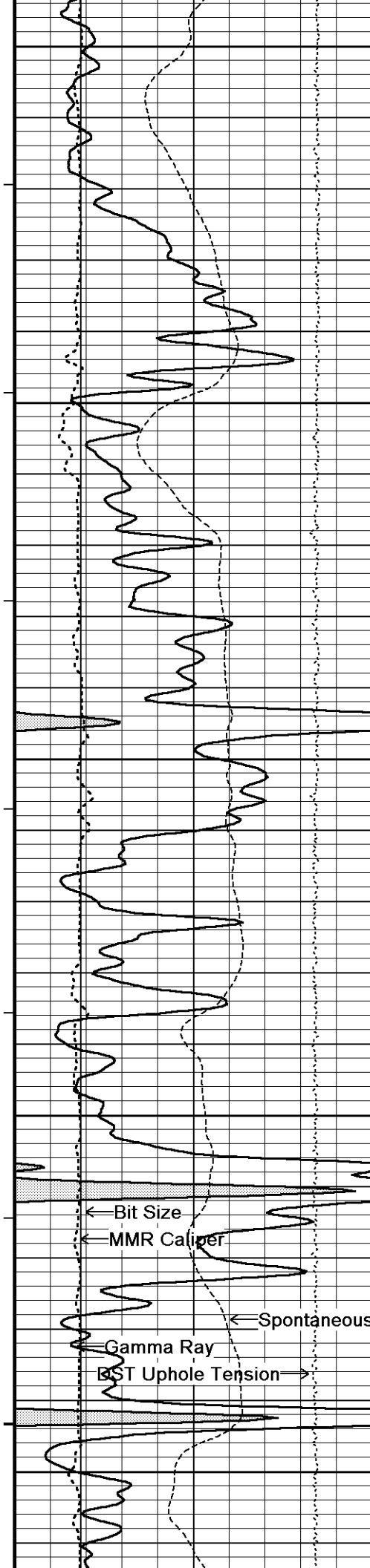
108°

4350

200







4600

110°

4650

111°

4700

111°

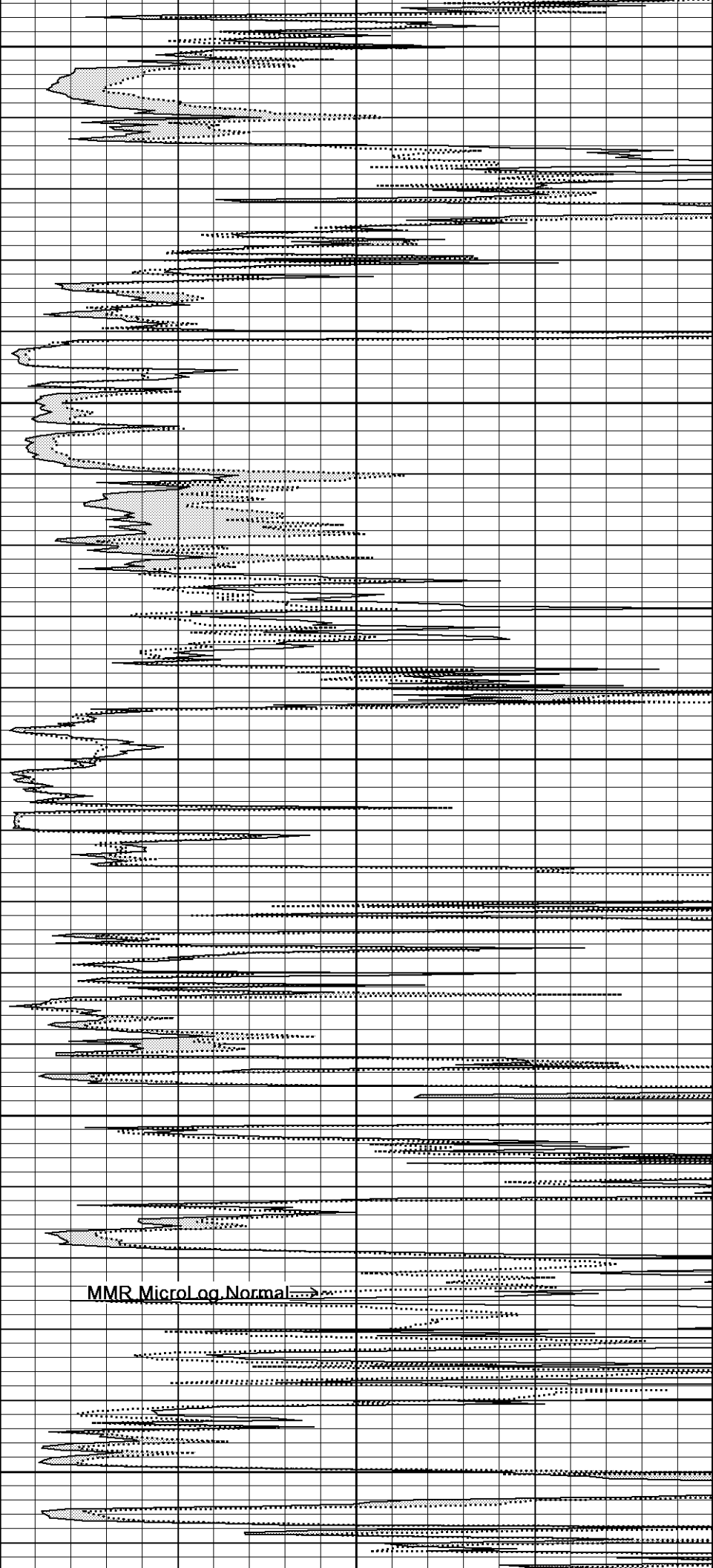
4750

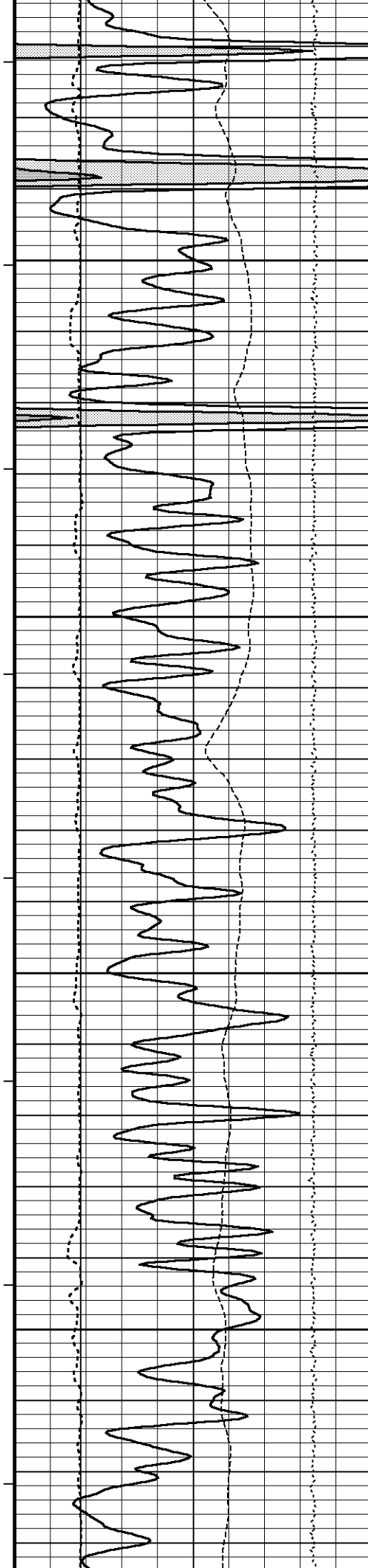
MMR Microlog Normal

111°

100

4800





112°

4850

112°

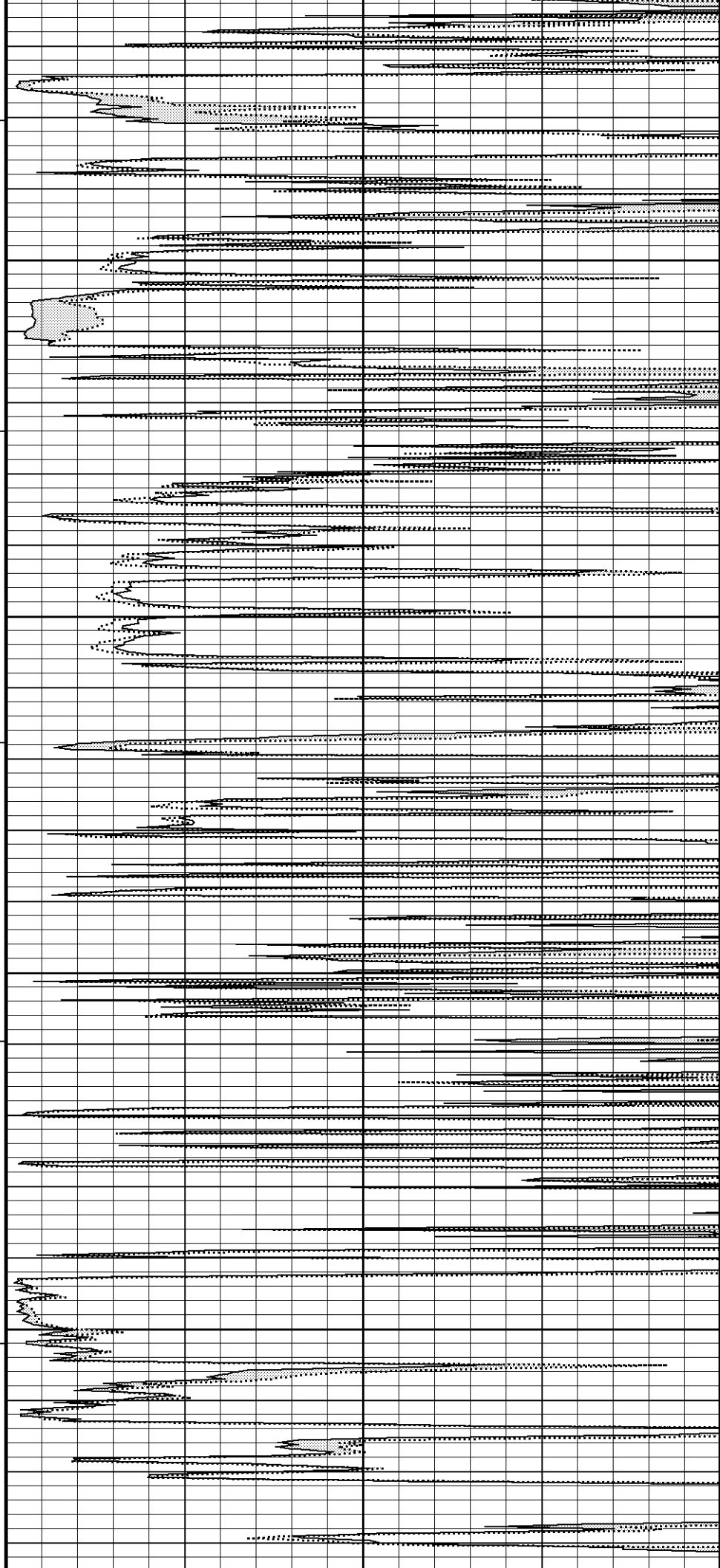
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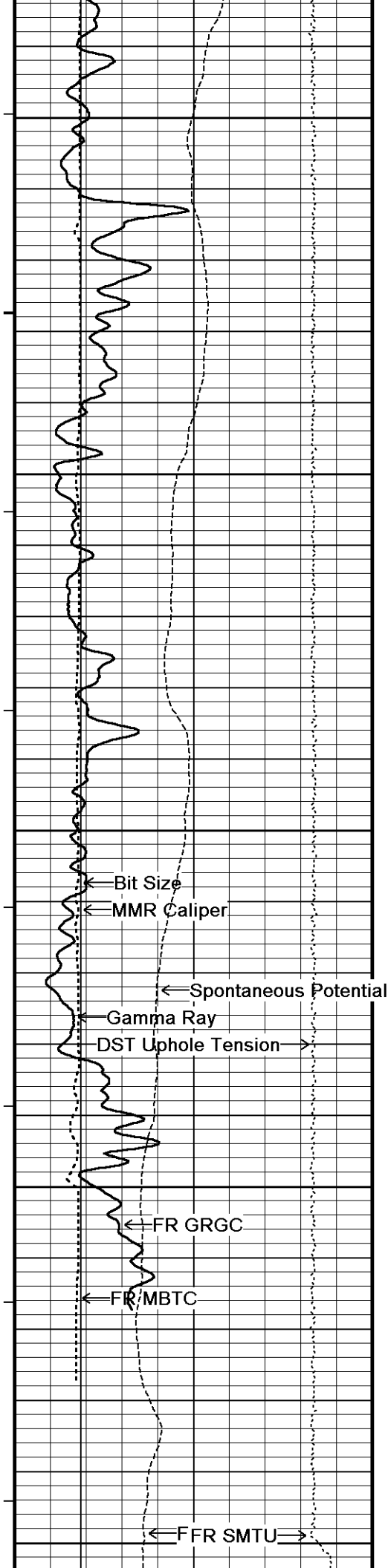
113°

4950

114°

5000





114°

5050

114°

5100

114°

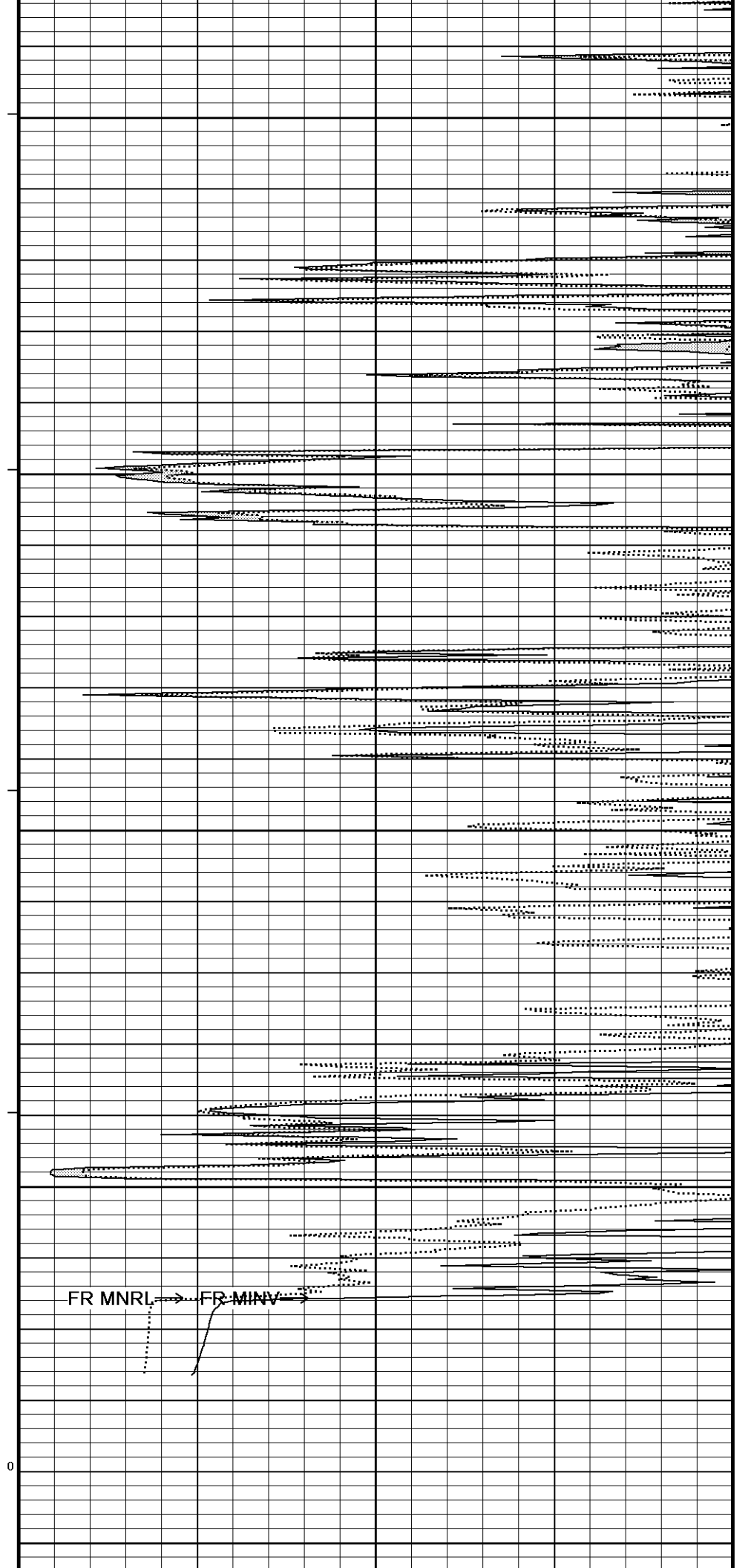
5150

114°

5200

0

5250



150 225 300

Spontaneous Potential

millivolts

- -> | 20 | <- +

MMR Caliper

inches

6 11 16

Bit Size

inches

6 11 16

DST Uphole Tension

pounds

5000 0

Borehole
Temp in
deg F

Annular
Integral
every
10 cu ft

MMR MicroLog Inverse

ohm metres

0 10 20 30 40

Replay
Scale
1:240

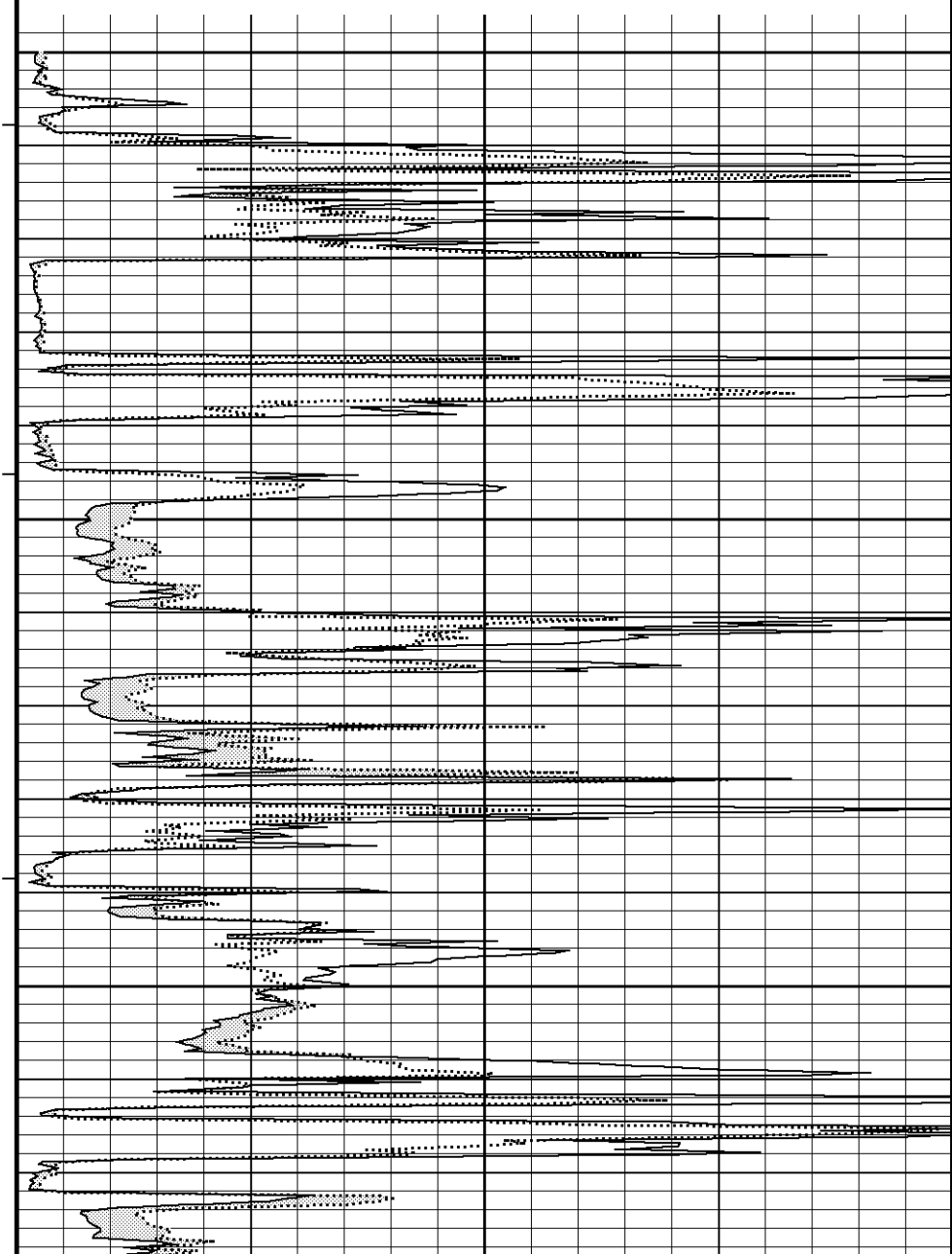
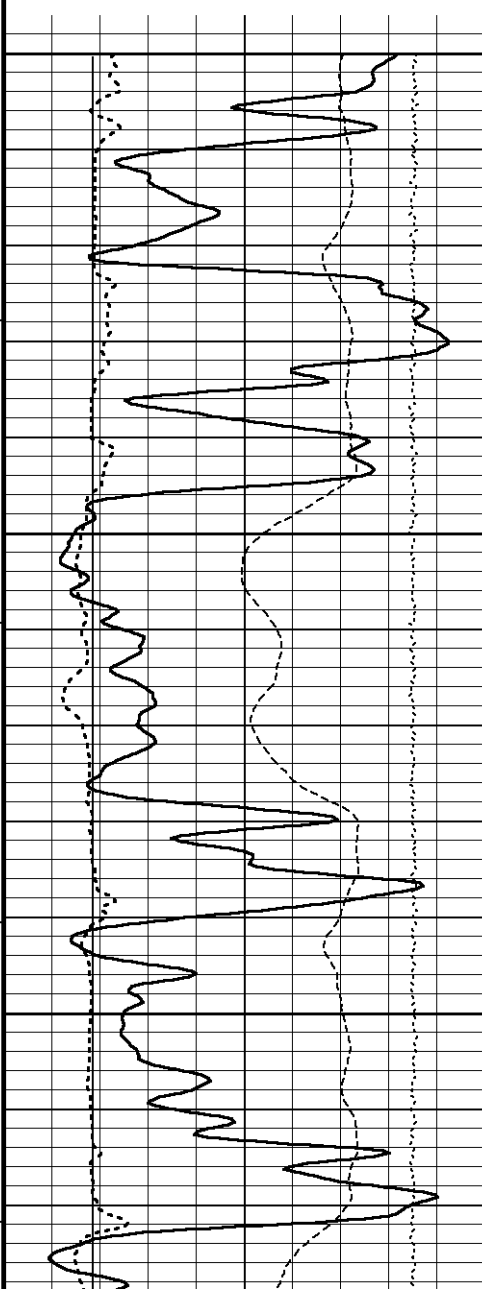
4200

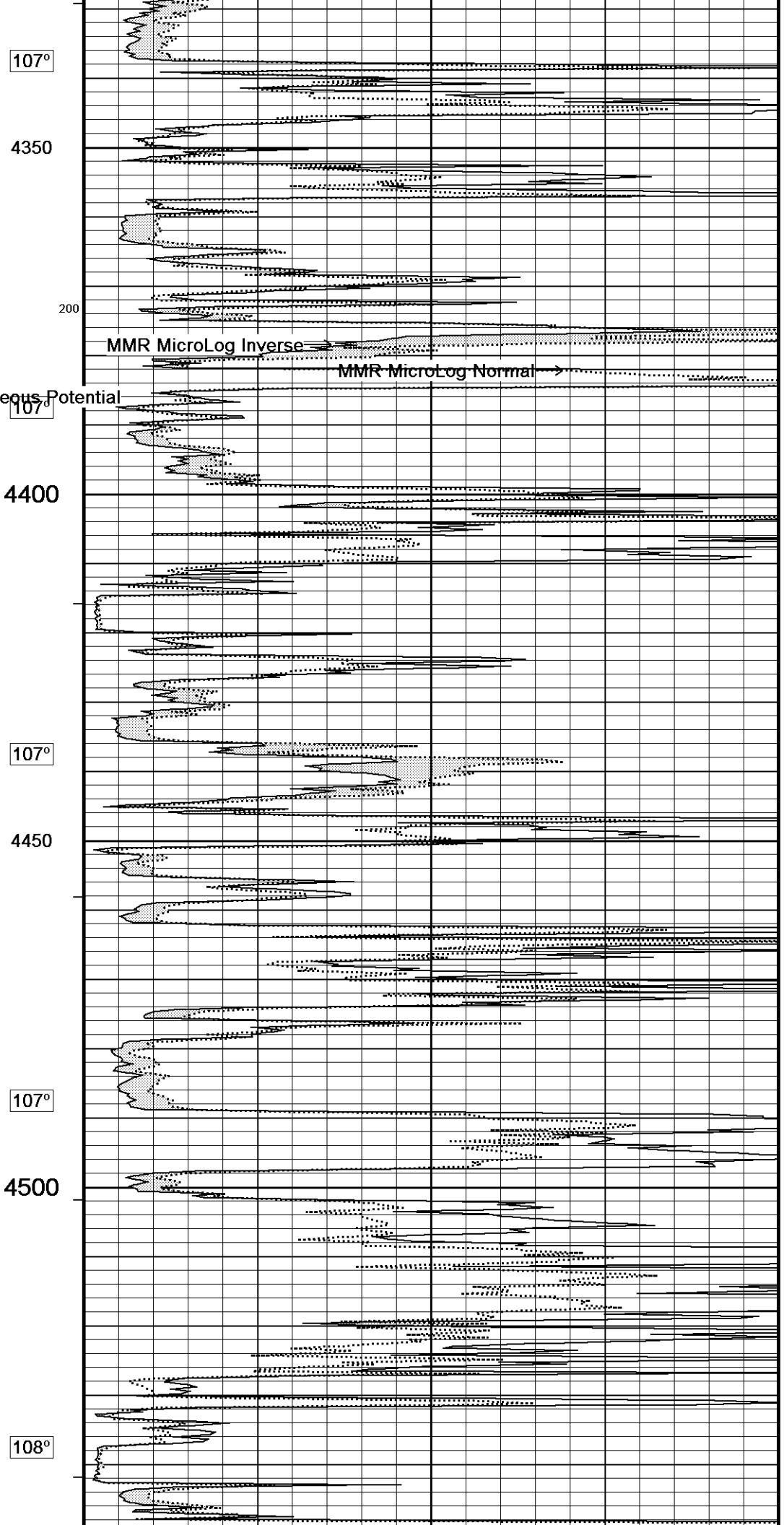
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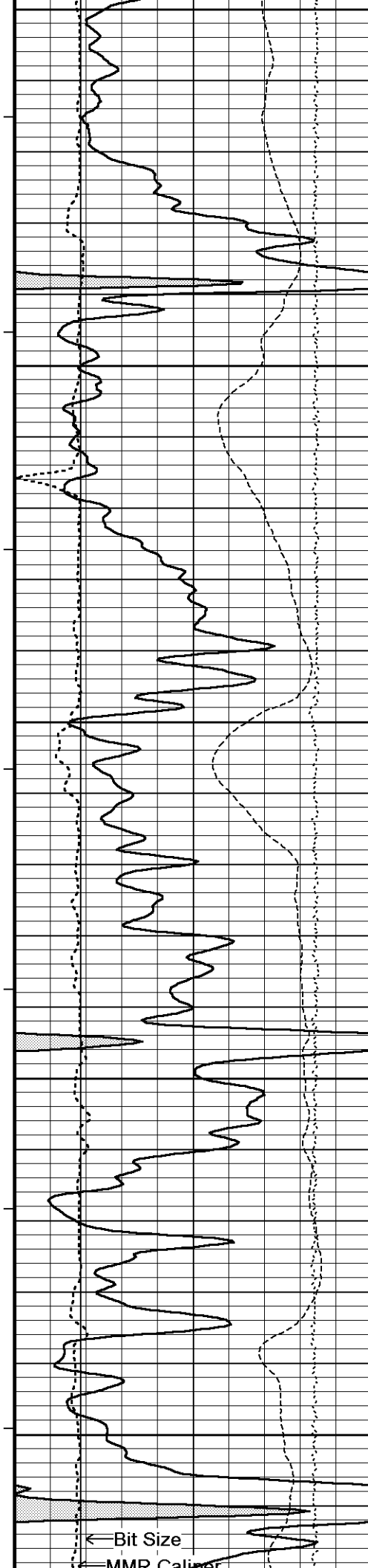
4250

106°

4300







4550

108"

4600

108"

4650

108"

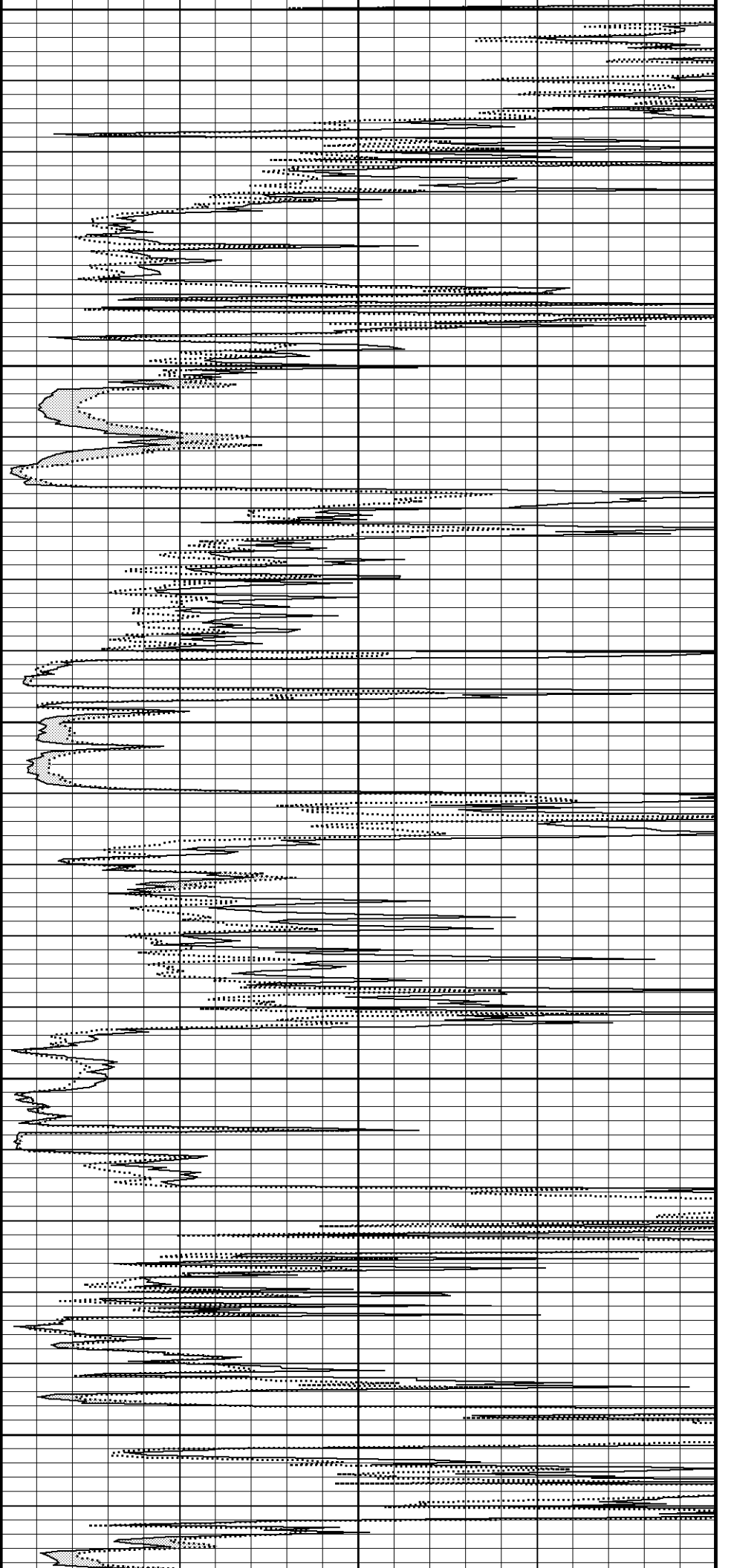
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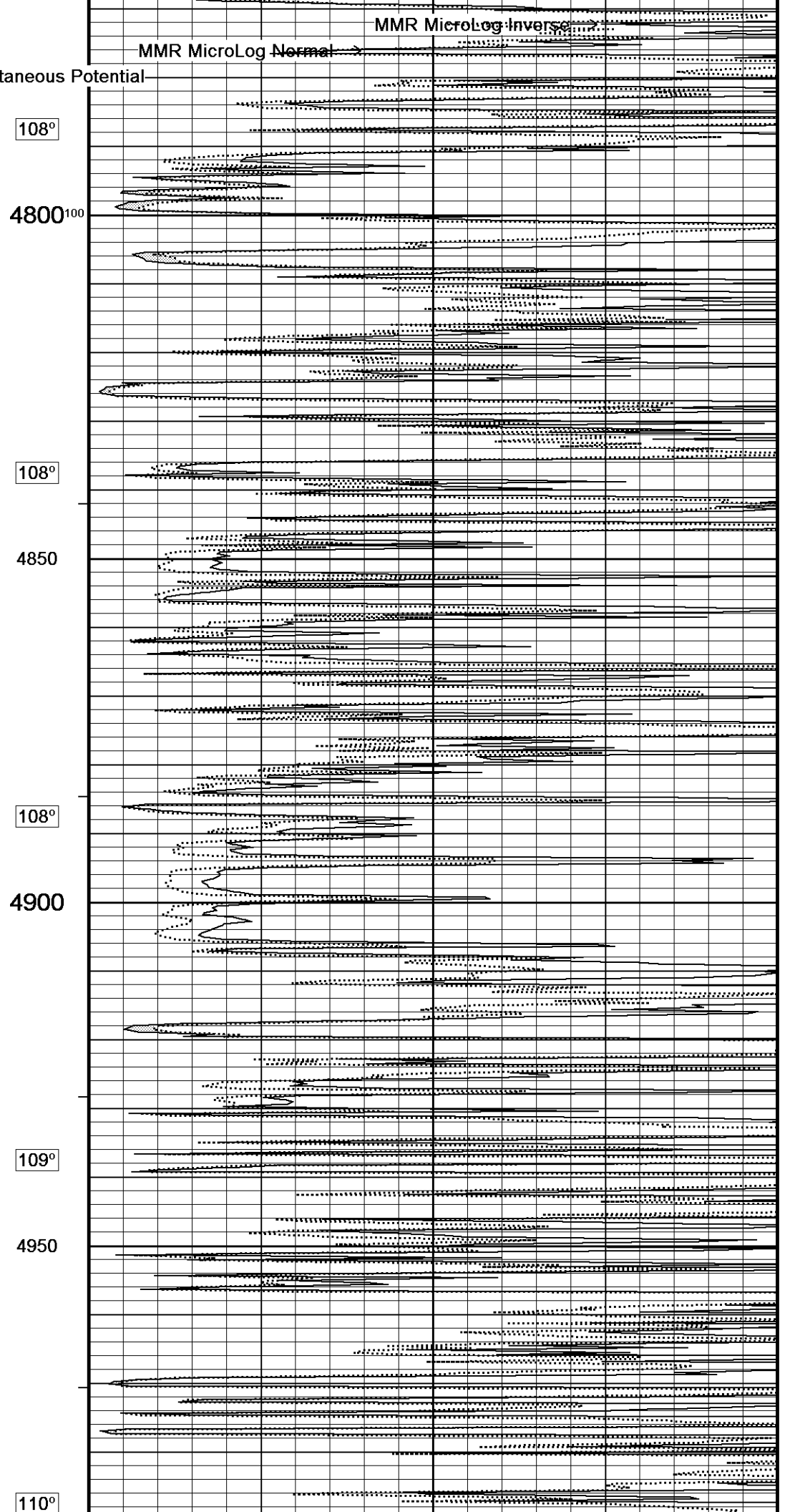
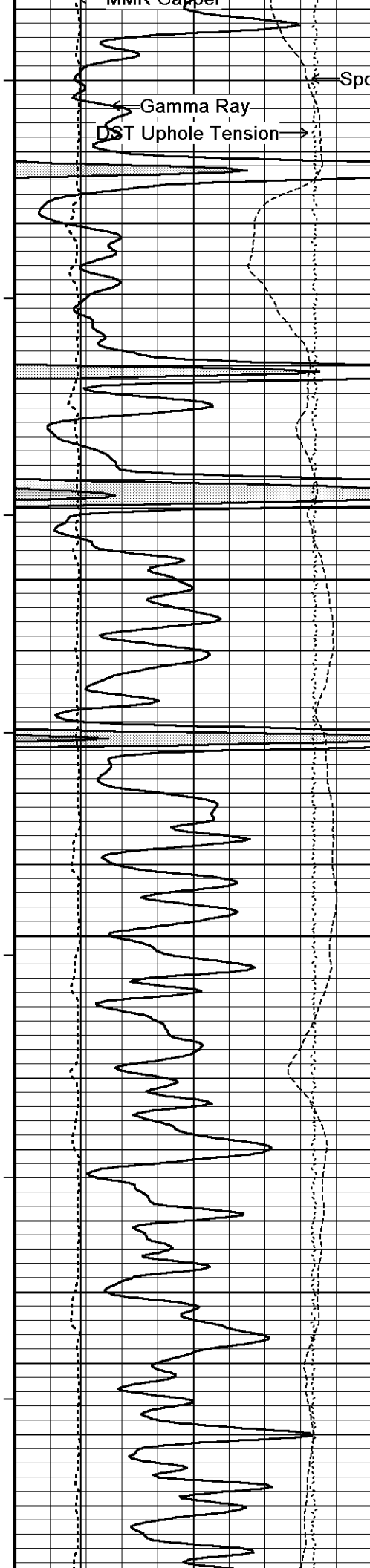
108"

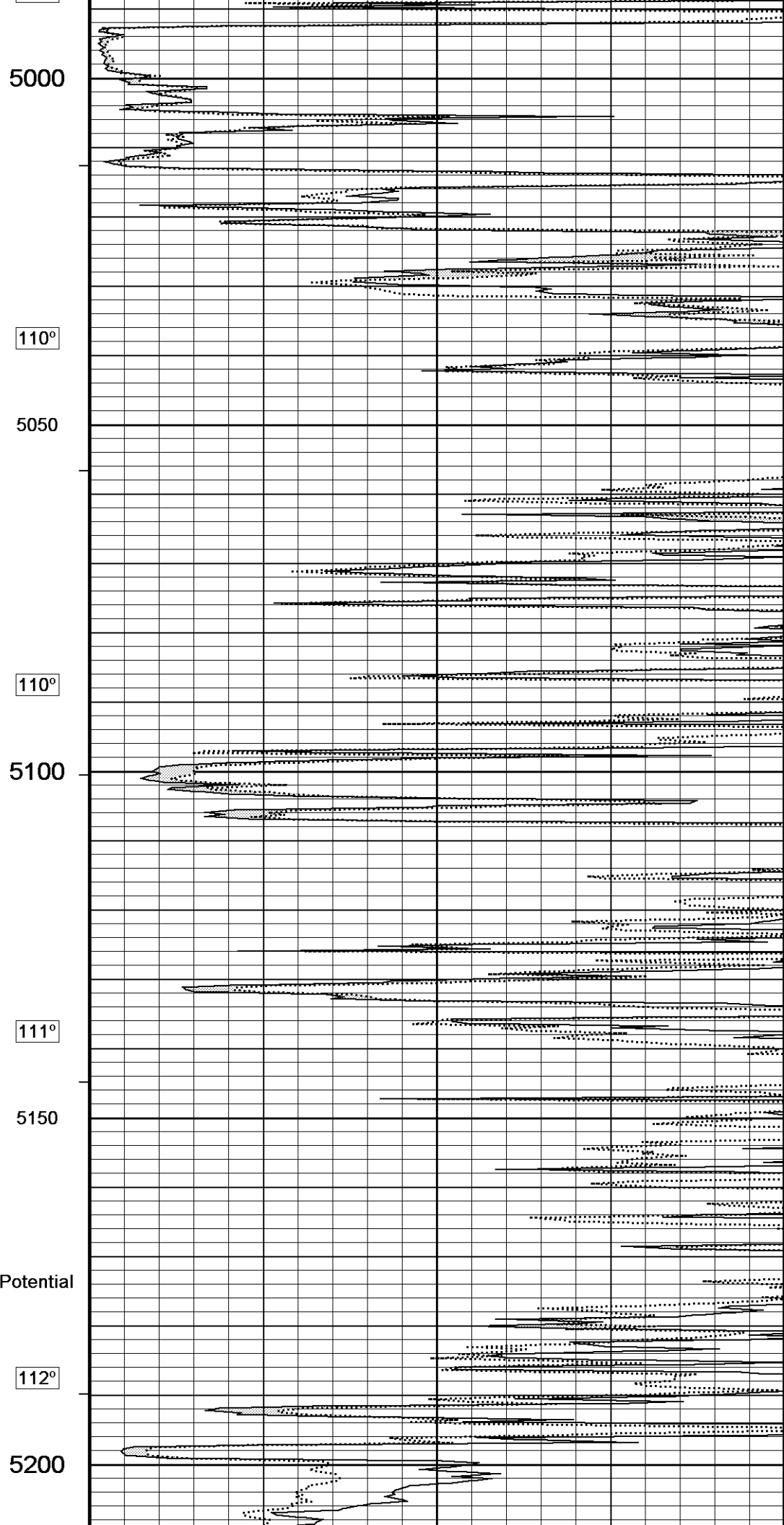
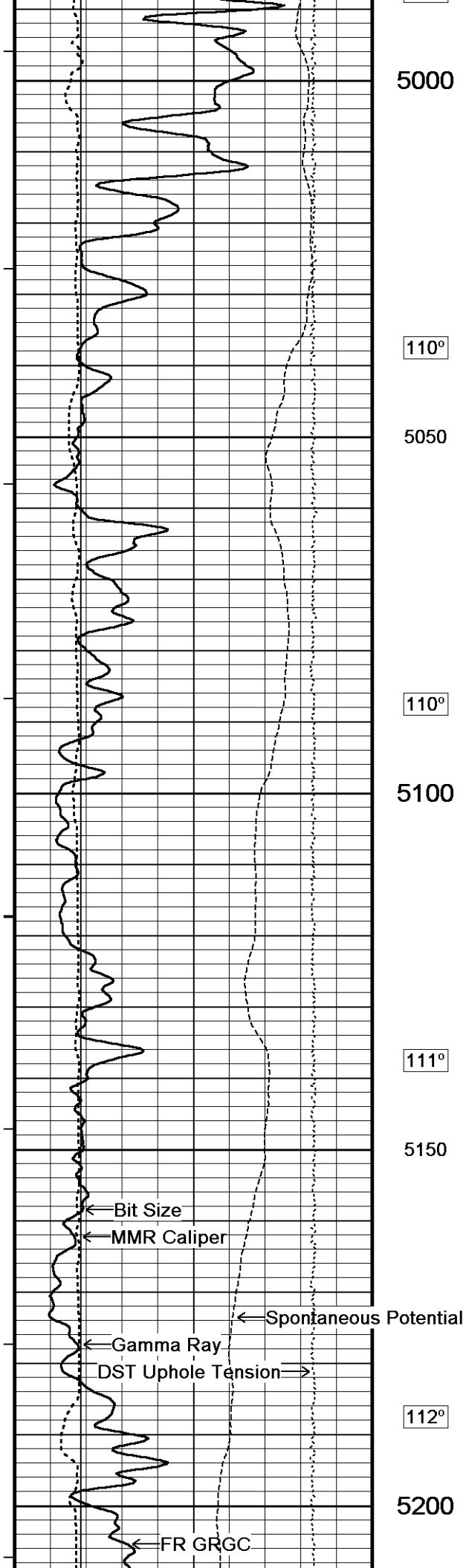
4750

← Bit Size

— MMP Caliper







General Parameters		
Mud Resistivity	0.540	ohm-metres
Mud Resistivity Temperature	90.000	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	4.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Four Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

High Resolution Temperature Calibration MCG-C 208			Field Calibration on 05-NOV-2012,14:26
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	75.00	75.00	

High Resolution Temperature Constants MCG-C 208			Last Edited on 05-NOV-2012,14:25
Pre-filter Length	11		

Gamma Calibration MCG-C 208			Field Calibration on 29-DEC-2012 16:00
	Measured	Calibrated (API)	
Background	66	46	
Calibrator (Gross)	1117	771	
Calibrator (Net)	1051	725	

Gamma Constants MCG-C 208			Last Edited on 29-DEC-2012,20:03
Gamma Calibrator Number	GR38		
Mud Density	1.11	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

Caliper Calibration MMR-A 11			Base Calibration on 12-DEC-2012 09:20 Field Calibration on 29-DEC-2012 15:55
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	13821	5.98	
2	17082	7.97	
3	20336	9.86	
4	24304	11.92	
5	0	0.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	6.13	5.98	

Micro Normal and Micro Inverse Calibration MMR-A 11			Base Calibration on 12-DEC-2012 09:26 Field Check on 29-DEC-2012 15:53
Base Calibration			
	Measured	Calibrated (ohm-m)	
Channel	Resistor 1 Resistor 2	Resistor 1 Resistor 2	
Micro Normal	12.3 59.8	5.0 25.0	
Micro Inverse	15.5 77.5	5.0 25.0	
Channel	Base Check (ohm-m)	Field Check (ohm-m)	
Micro Normal	76.5	76.5	
Micro Inverse	58.7	58.7	

Micro Normal and Micro Inverse Constants MMR-A 11			Last Edited on 05-NOV-2012,13:54
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Pad Type	8-12 in Soft Rubber Inflatable	006-9011-159
Micro Normal K Factor	1.0000	
Micro Inverse K Factor	1.0000	
Standoff Offset	0.0000	inches

Caliper Calibration MPD-B 31

Base Calibration on 13-DEC-2012 14:11
Field Calibration on 29-DEC-2012 15:52

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	15472	3.99
2	24160	5.98
3	32703	7.97
4	41008	9.86
5	50231	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.97	5.98

DOWNHOLE EQUIPMENT

C:\Minimus 13.04.8492\Data\McCoy Petroleum Yost 'G' #1-18\McCoy Petroleum 'G' Yost #1-18_001.dta

Compact Comms Gamma

MCG-C 208 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-Resistivity

MMR-A 11 LG: 8.59 ft WT: 81.6 lb OD: 4.88 in

Compact Neutron

MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper

MPD-B 31 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

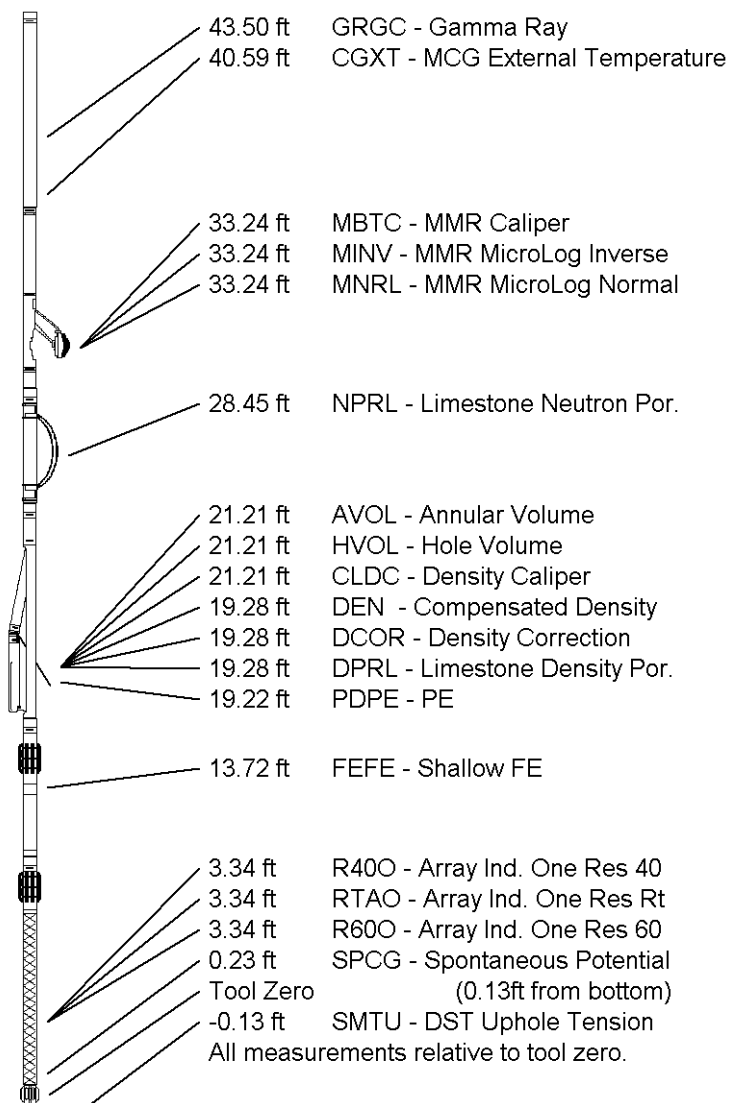
Compact Focussed Electric

MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction

MAI-A.A 45 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 48.78 ft Weight: 383.6 lb



COMPANY
WELL
FIELD

MCCOY PETROLEUM CORP.
YOST 'G' #1-18
WILDCAT

PROVINCE/COUNTY		GRAY			
COUNTRY/STATE		U.S.A. / KANSAS			
Elevation Kelly Bushing	2763.00	feet	First Reading	5216.00	feet
Elevation Drill Floor	2762.00	feet	Depth Driller	5250.00	feet
Elevation Ground Level	2750.00	feet	Depth Logger	5249.00	feet
 Weatherford[®] MICRORESISTIVITY LOG					