



Weatherford[®]

MICRORESISTIVITY LOG

COMPANY			MCCOY PETROLEUM CORP.		
WELL			MCKINNEY TRUST 'A' #1-23		
FIELD			ALFORD		
PROVINCE/COUNTY			KIOWA		
COUNTRY/STATE			U.S.A. / KANSAS		
LOCATION			1980' FSL & 2310' FEL		
SEC	TWP	RGE	Other Services		
23	30S	19W	MPD/MDN		
API Number		15-097-21735	MAI/MFE		
Permit Number					
Permanent Datum G.L., Elevation 2232 feet				Elevations:	
Log Measured From KB				KB	2241.00
Drilling Measured From K.B. @ 9 FEET				DF	2239.00
				GL	2232.00
Date	02-SEP-2012				
Run Number	ONE				
Depth Driller	5225.00			feet	
Depth Logger	5226.00			feet	
First Reading	5193.00			feet	
Last Reading	3900.00			feet	
Casing Driller	640.00			feet	
Casing Logger	639.00			feet	
Bit Size	7.875			inches	
Hole Fluid Type	CHEMICAL				
Density / Viscosity	1.13 g/cc		49.00 CP		
PH / Fluid Loss	9.00		11.00 ml/30Min		
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.56 @ 88.0			ohm-m	
Rmf @ Measured Temp	0.45 @ 88.0			ohm-m	
Rmc @ Measured Temp	0.67 @ 88.0			ohm-m	
Source Rmf / Rmc	CALC	CALC	CALC		
Rm @ BHT	0.44 @ 113.0		ohm-m		
Time Since Circulation	4 HOURS				
Max Recorded Temp	113.00		deg F		
Equipment Name	COMPACT				
Equipment / Base	13057	LIB			
Recorded By	R.HOFFMAN				
Witnessed By	ROBERT HENDRIX				
S.O. # / JOB #	3537837			LB12-239	

BOREHOLE RECORD

Last Edited: 02-SEP-2012 10:37

Bit Size inches	Depth From feet	Depth To feet
7.875	639.00	5226.00

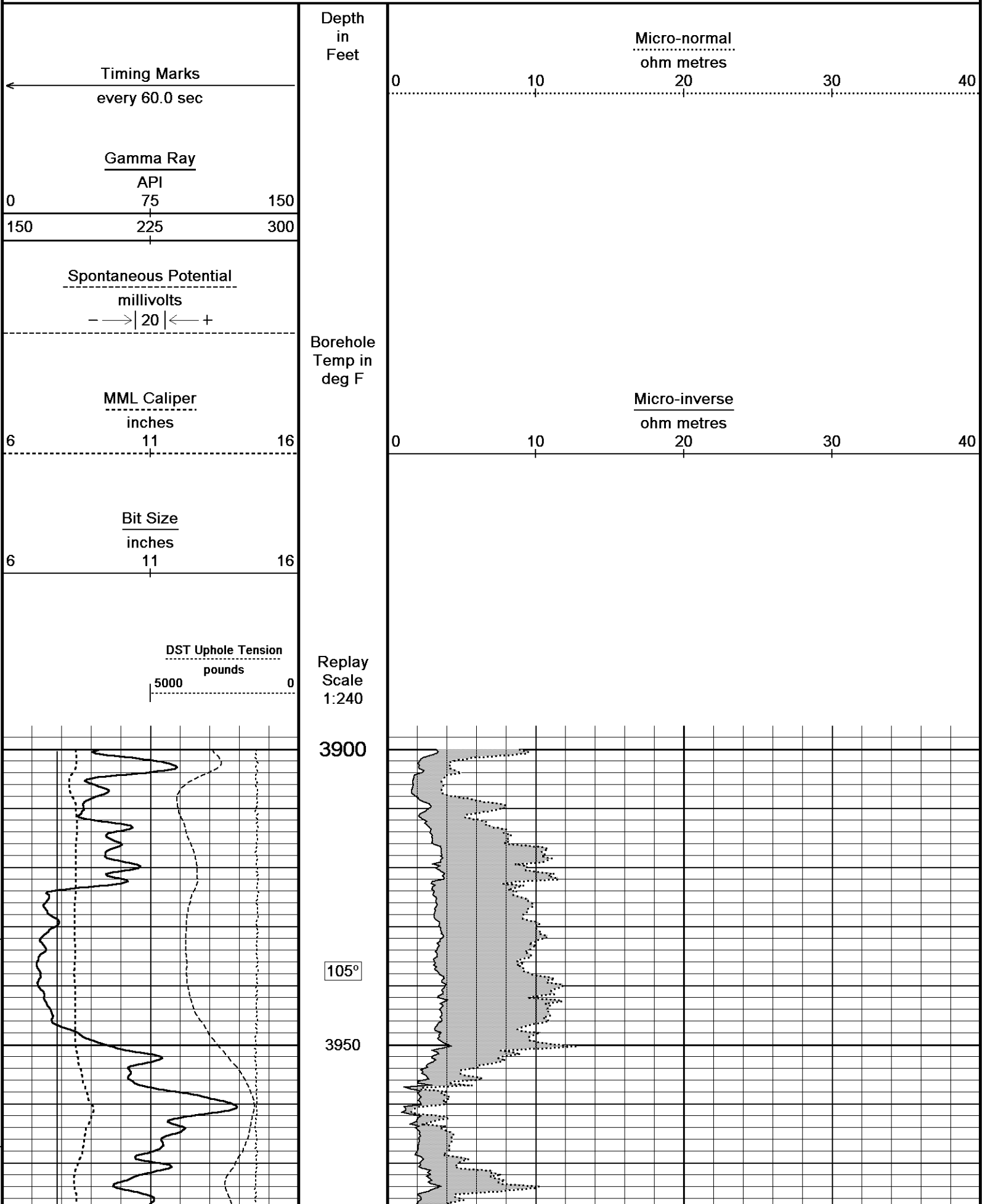
CASING RECORD

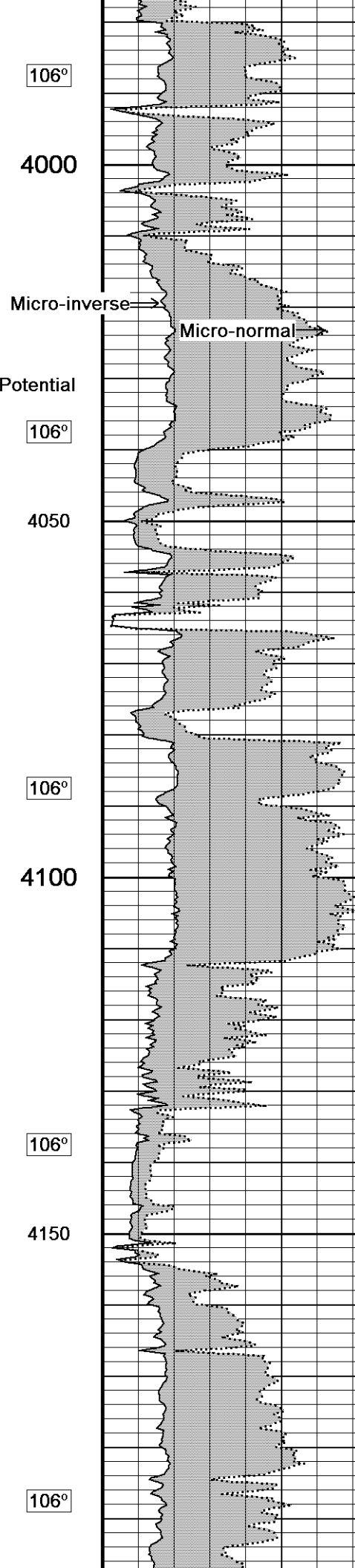
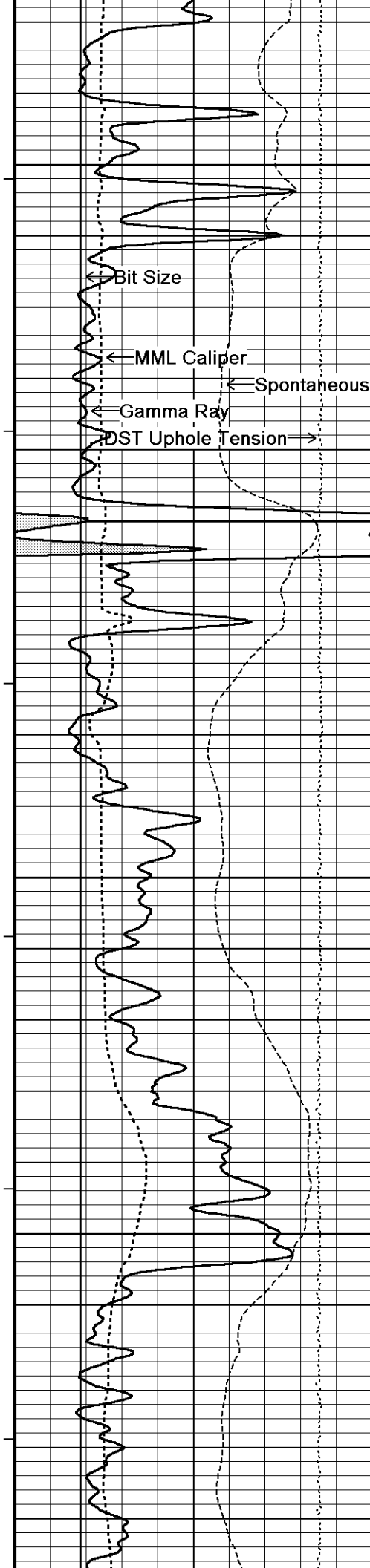
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	639.00	24.00

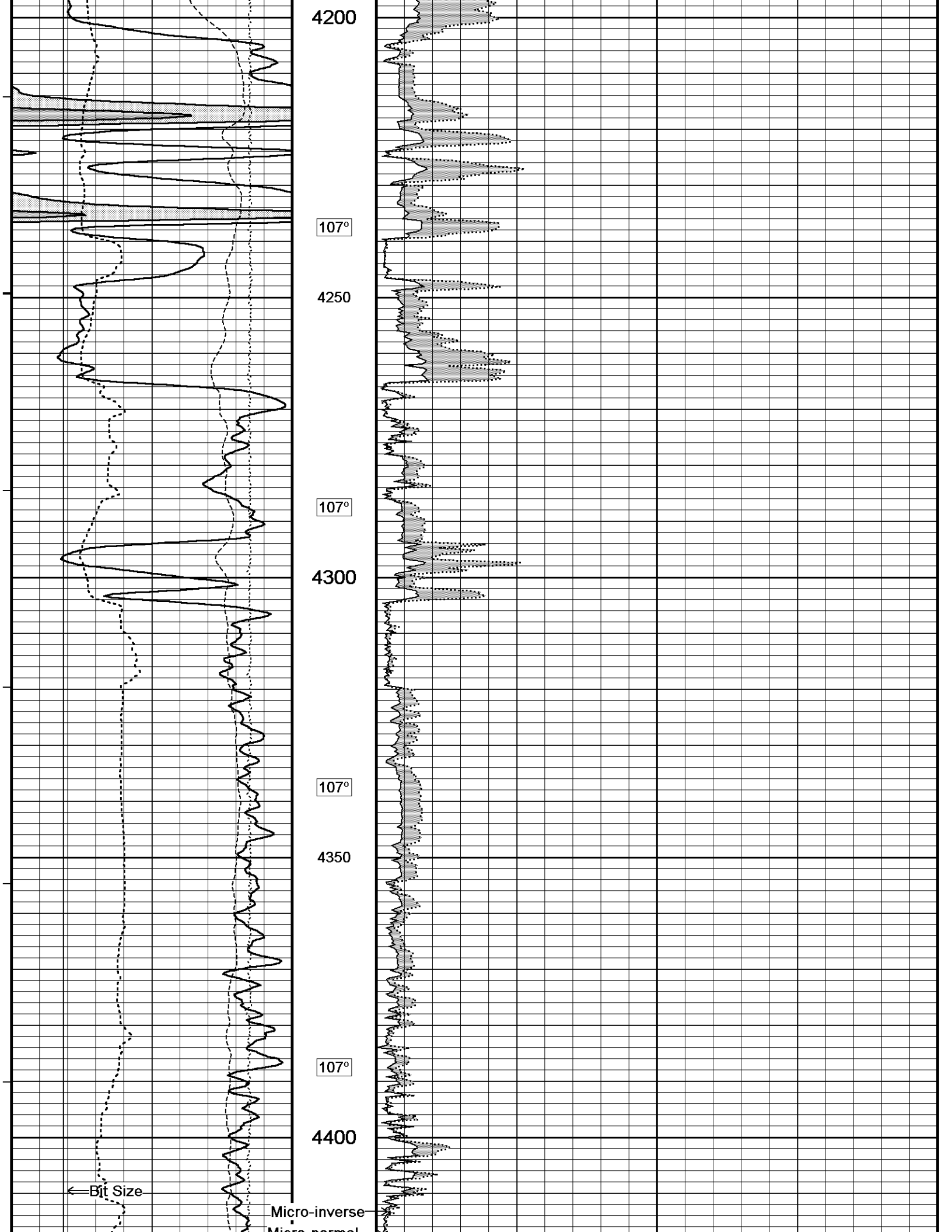
REMARKS

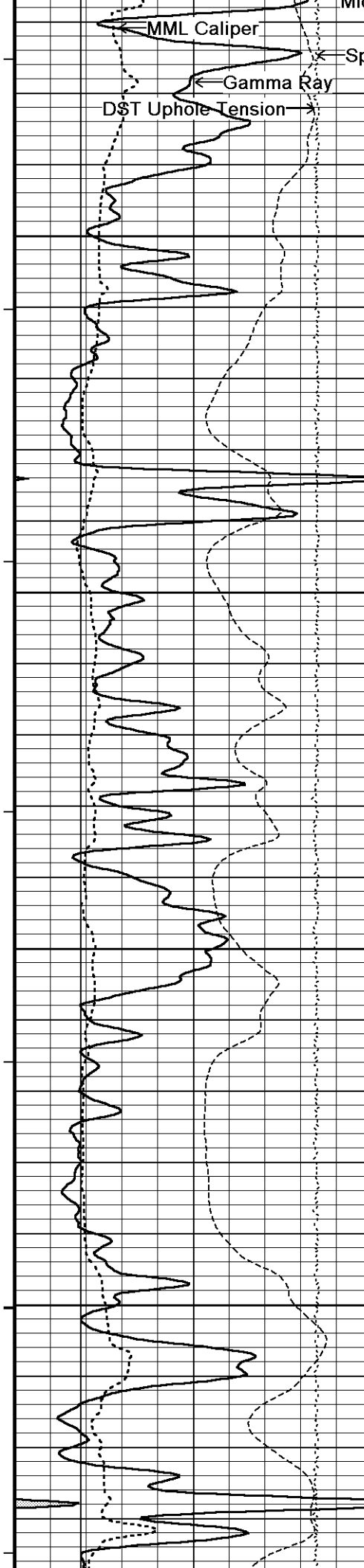
Tools Ran: MCG, MML, MDN, MPD, MFE, MAI.
Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE and MAI 0.5 inch standoffs used.
2.71 g/cc Limestone Density Matrix used to calculate porosity.
All intervals logged and scaled per customer's request.
Tight pulls, washouts and borehole rugosity will affect data quality.
Annular volume with 5.5 inch production casing TD to 3900ft = 286 cu. ft.
Service order: #3537837
Rig: Sterling Drilling Rig #4
Engineer: R. Hoffman
Operator(s): B. Reeves

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.









108°

4450

108°

4500

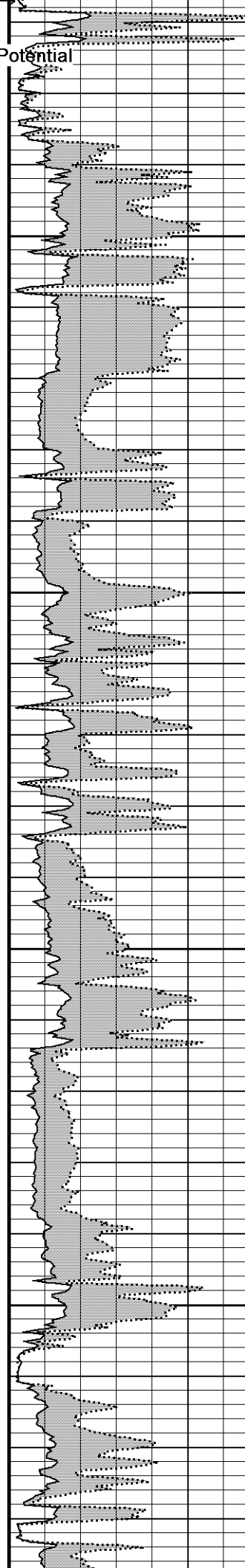
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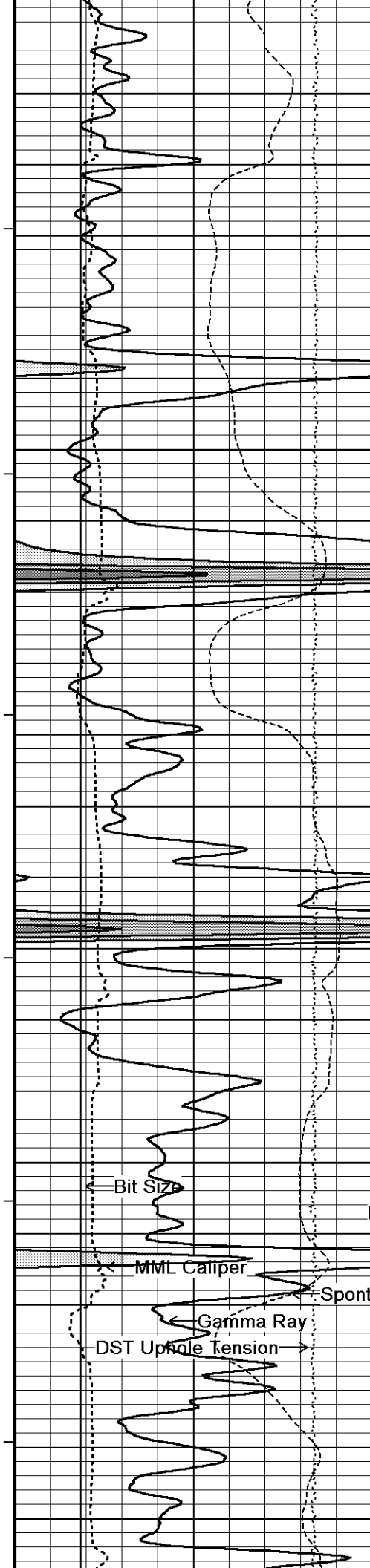
4550

109°

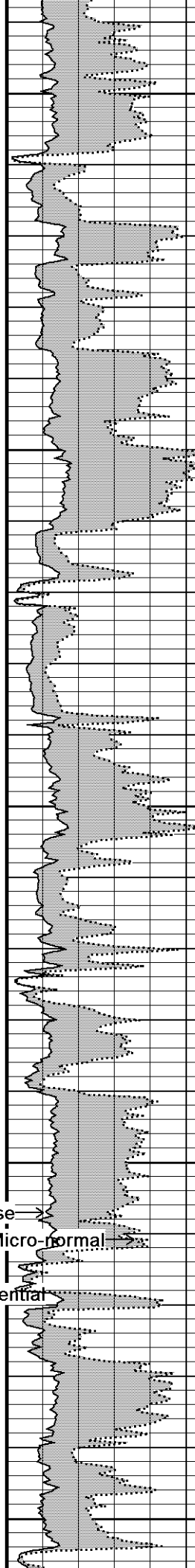
4600

4650



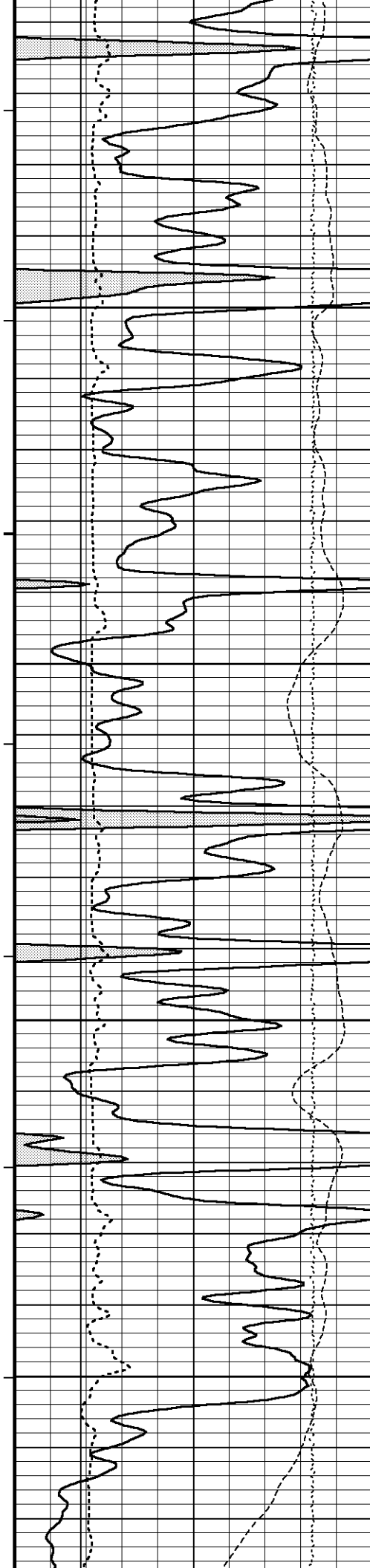


109°
4650
109°
4700
109°
4750
110°
4800
110°
4850



Micro-inverse
Micro-normal
Spontaneous Potential

Bit Size
MML Caliper
Gamma Ray
DST Up-hole Tension



110°

4900

111°

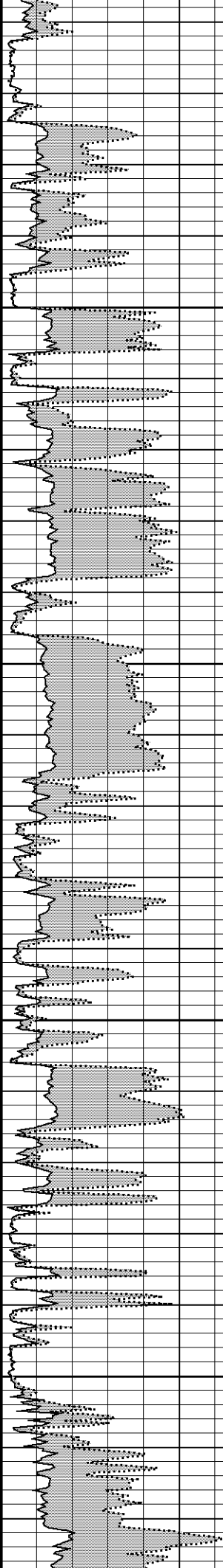
4950

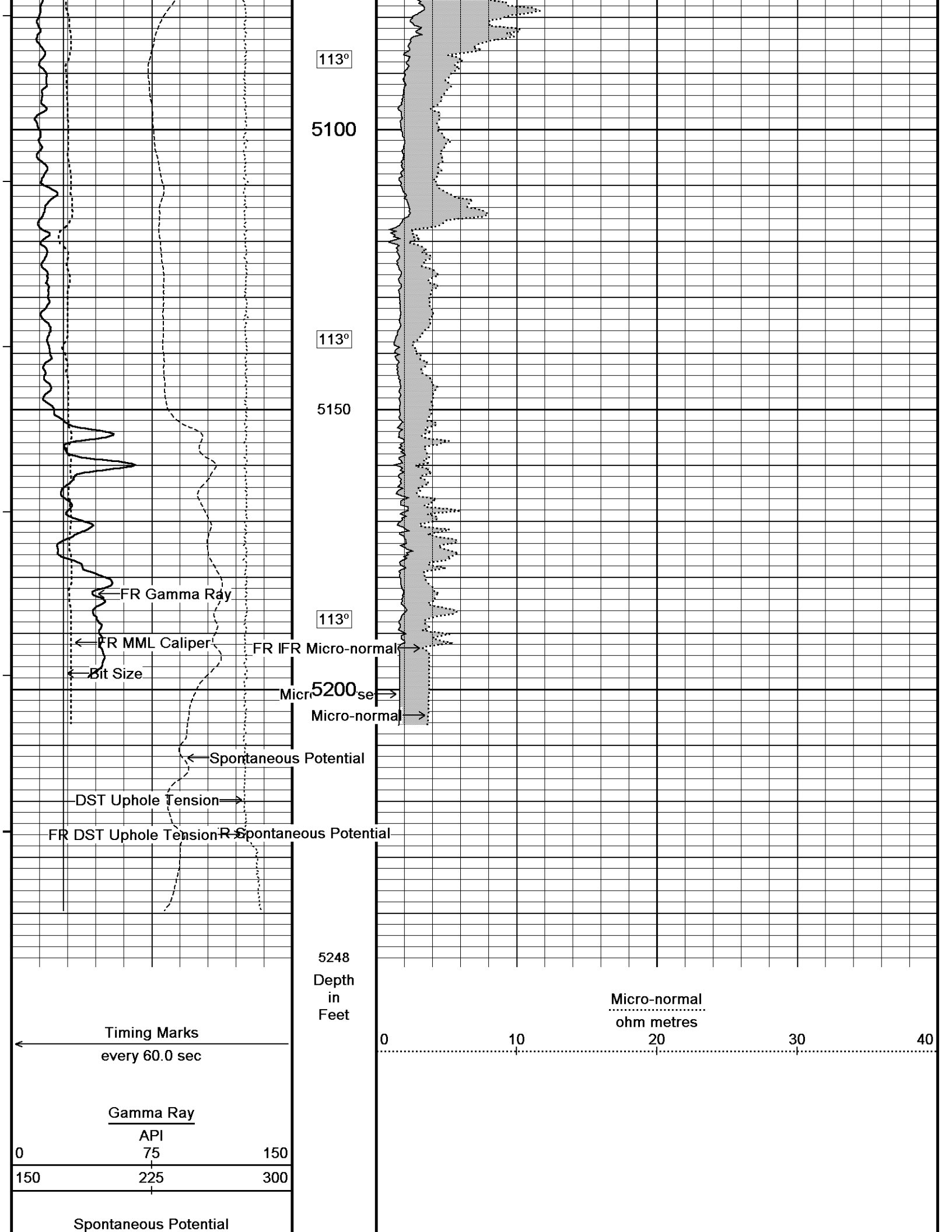
111°

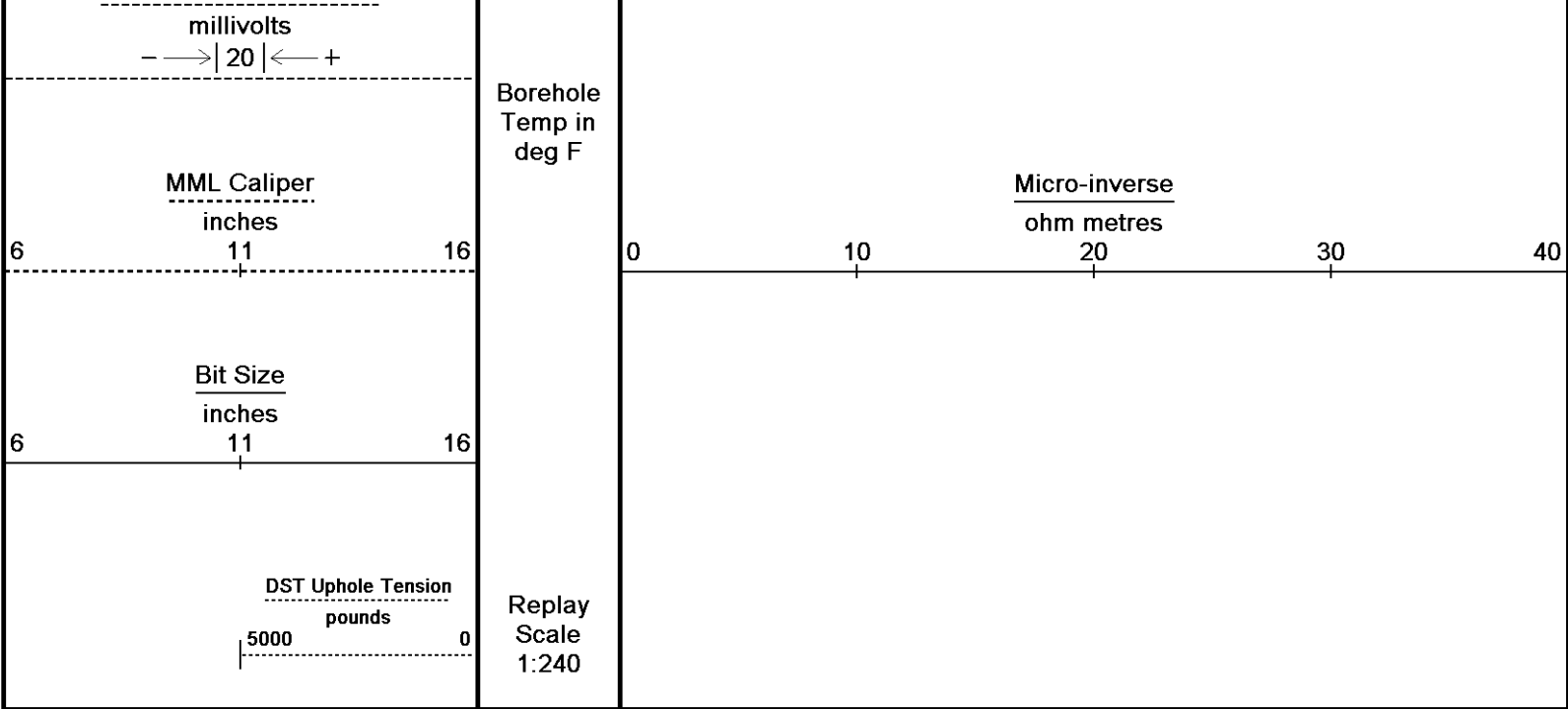
5000

112°

5050





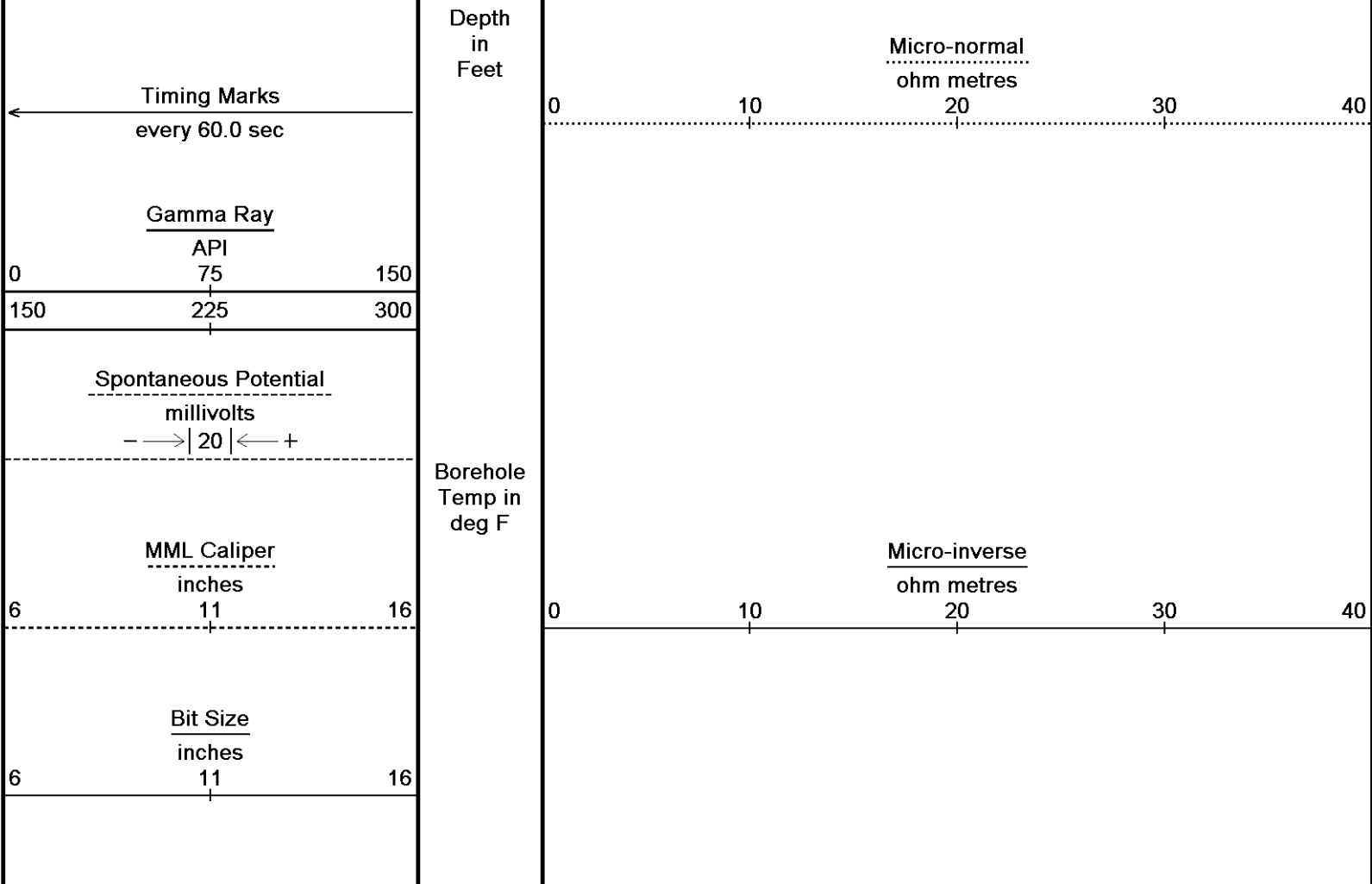


Depth Based Data - Maximum Sampling Increment 10.0cm	Plotted on 02-SEP-2012 10:44
Filename: C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23 Main spooled section.dta	Recorded on 02-SEP-2012 10:18
System Versions: Logged with 13.02.6600 Plotted with 13.02.6600	

↑	5 INCH MAIN	↑
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↓	REPEAT SECTION	↓
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Depth Based Data - Maximum Sampling Increment 10.0cm	Plotted on 02-SEP-2012 10:44
Filename: C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23 Repeat.dta	Recorded on 02-SEP-2012 09:22
System Versions: Logged with 13.02.6600 Plotted with 13.02.6600	



DST Uphole Tension
pounds
5000 0

Replay
Scale
1:240

5024

5050

112°

5100

113°

5150

113°

5200

Micro-normal

FR Gamma Ray

FR MML Caliper

Bit Size

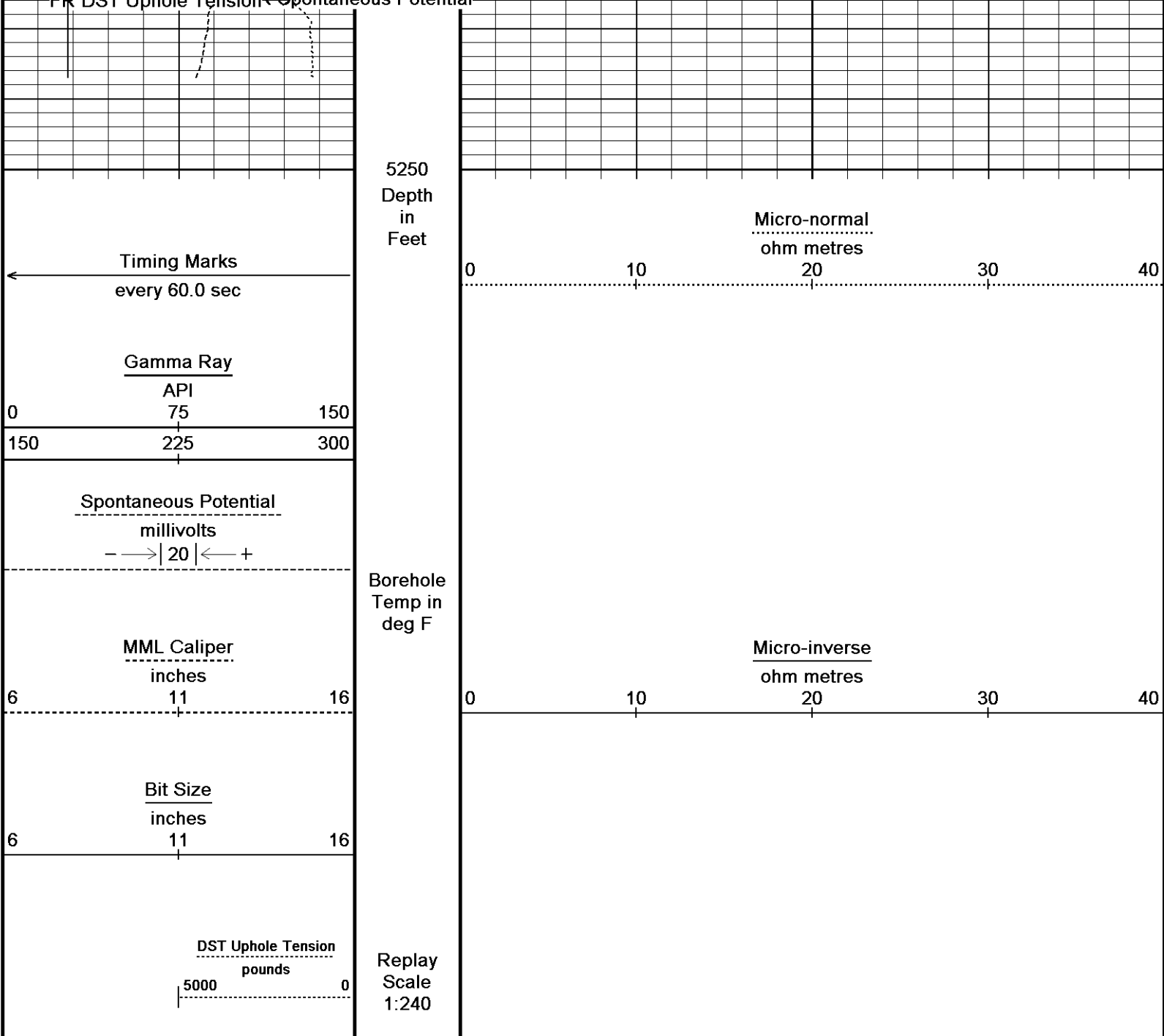
FR Micro-inverse

Micro-normal

Spontaneous Potential

DST Uphole Tension

FR DST Uphole Tension Spontaneous Potential



Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23 Repeat.dta
System Versions: Logged with 13.02.6600 Plotted with 13.02.6600
Plotted on 02-SEP-2012 10:44
Recorded on 02-SEP-2012 09:22

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION		
C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23\McCoy McKinney Trust 'A' #1-23 Main spooled section.dta		
General Constants All 000		Last Edited on 02-SEP-2012,07:56
General Parameters		
Mud Resistivity	0.560	ohm-metres
Mud Resistivity Temperature	88.000	degrees F
Water Level	0.000	feet
Density/Neutron 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 Density 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

Gamma Calibration MCG-C 208

Field Calibration on 02-SEP-2012 04:38

	Measured	Calibrated (API)
Background	75	53
Calibrator (Gross)	1095	778
Calibrator (Net)	1020	725

Gamma Constants MCG-C 208

Last Edited on 02-SEP-2012,07:53

Gamma Calibrator Number	GR38	
Mud Density	1.13	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Calibration MCG-C 208

Field Calibration on 03-AUG-2012,16:18

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

High Resolution Temperature Constants MCG-C 208

Last Edited on

Pre-filter Length	11
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Caliper Calibration MML-A 16

Base Calibration on 25-AUG-2012 22:52

Field Calibration on 02-SEP-2012 04:33

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	14118	5.98
2	17457	7.97
3	20732	9.86
4	24642	11.92
5	0	0.00
6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	5.96	5.98

Micro Normal and Micro Inverse Calibration MML-A 16

Base Calibration on 25-AUG-2012 22:42

Field Check on 02-SEP-2012 04:32

Base Calibration		Measured				Calibrated (ohm-m)	
Channel		Resistor 1	Resistor 2	Resistor 1	Resistor 2		
Micro Normal		12.2	60.2	5.0	25.0		
Micro Inverse		15.6	78.3	5.0	25.0		
Channel		Base Check (ohm-m)		Field Check (ohm-m)			
Micro Normal		62.9		62.9			
Micro Inverse		48.2		48.2			

Micro Normal and Micro Inverse Constants MML-A 16

Last Edited on 28-AUG-2012,21:01

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	N/A inches

DOWNHOLE EQUIPMENT

C:\Minimus 13.02.6600\Data\McCoy McKinney Trust 'A' #1-23\McCoy McKinney Trust 'A' #1-23 Main spooled section.dta

0.5 Triple Cone Cable Head (MCD-C 7)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

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

Compact Micro-log
MML-A 16 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

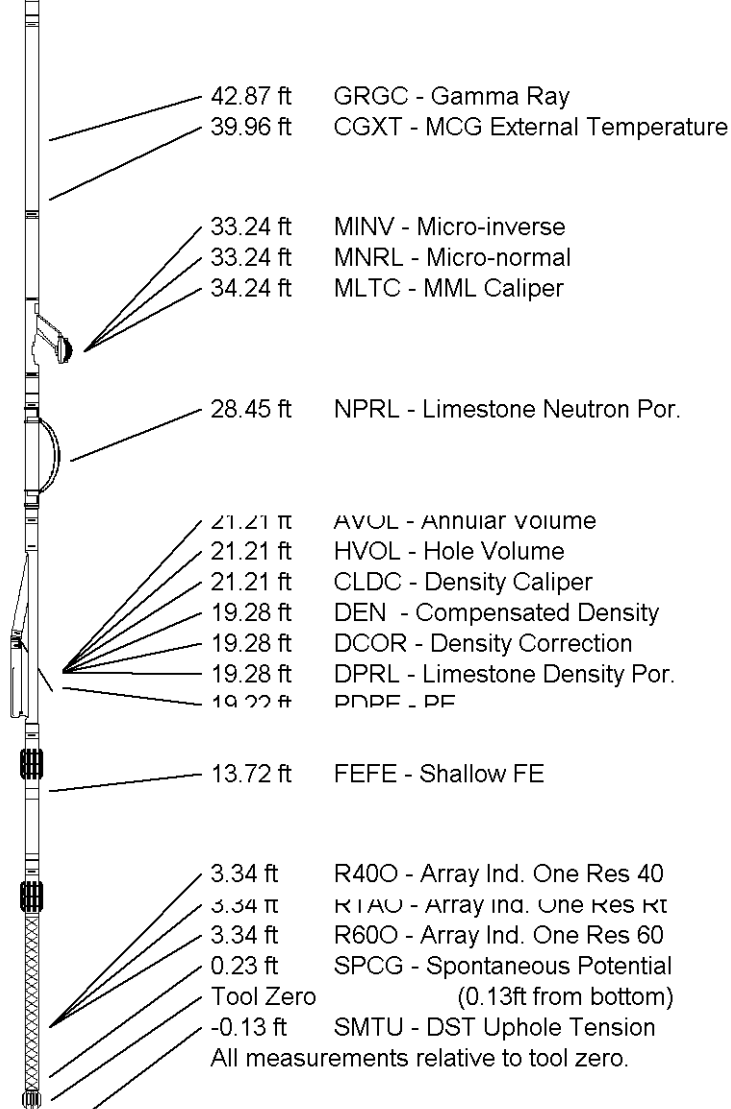
Compact Neutron
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

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: 49.73 ft Weight: 399.0 lb



COMPANY	MCCOY PETROLEUM CORP.
WELL	MCKINNEY TRUST 'A' #1-23
FIELD	ALFORD
PROVINCE/COUNTY	KIOWA
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2241.00	feet	First Reading	5193.00	feet
Elevation Drill Floor	2239.00	feet	Depth Driller	5225.00	feet
Elevation Ground Level	2232.00	feet	Depth Logger	5226.00	feet



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MICRORESISTIVITY LOG