

MICROLOG

COMPANY			PARAMOUNT RESOURCES LTD.		
WELL			PARA ET AL CAMERON L-29		
FIELD			CAMERON HILLS		
PROVINCE/COUNTY			NORTHWEST TERRITORIES		
COUNTRY/STATE			CANADA		
LOCATION			300L296010117300		
			FIELD PRINT		
LSD	SEC	TWP	RGE	Other Services	
API Number				ARRAY INDUCTION	
Permit Number 2041				COMPENSTATED SONIC	
Permanent Datum GROUND LEVEL, Elevation 754.1 metres				PHOTO DENSITY	
Log Measured From 5.4 M above Permanent Datum				DUAL SPACED NEUTRON	
Drilling Measured From KB				Elevations:	
Date				KB	metres
Run Number				DF	759.50
Depth Driller				GL	754.10
Depth Logger					
First Reading					
Last Reading					
Casing Driller					
Casing Logger					
Bit Size					
Hole Fluid Type					
Density / Viscosity					
PH / Fluid Loss					
Sample Source					
Rm @ Measured Temp					
Rmf @ Measured Temp					
Rmc @ Measured Temp					
Source Rmf / Rmc					
Rm @ BHT					
Time Since Circulation					
Max Recorded Temp					
Equipment Name					
Equipment / Base					
Recorded By					
Witnessed By					
CIRC. STOP TIME					

BOREHOLE RECORD

Last Edited: 5-FEB-2007 23:19

Bit Size millimetres	Depth From metres	Depth To metres
311.000	0.00	435.50
200.000	435.50	1515.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
SURFACE	219.100	0.00	435.50	35.72

REMARKS

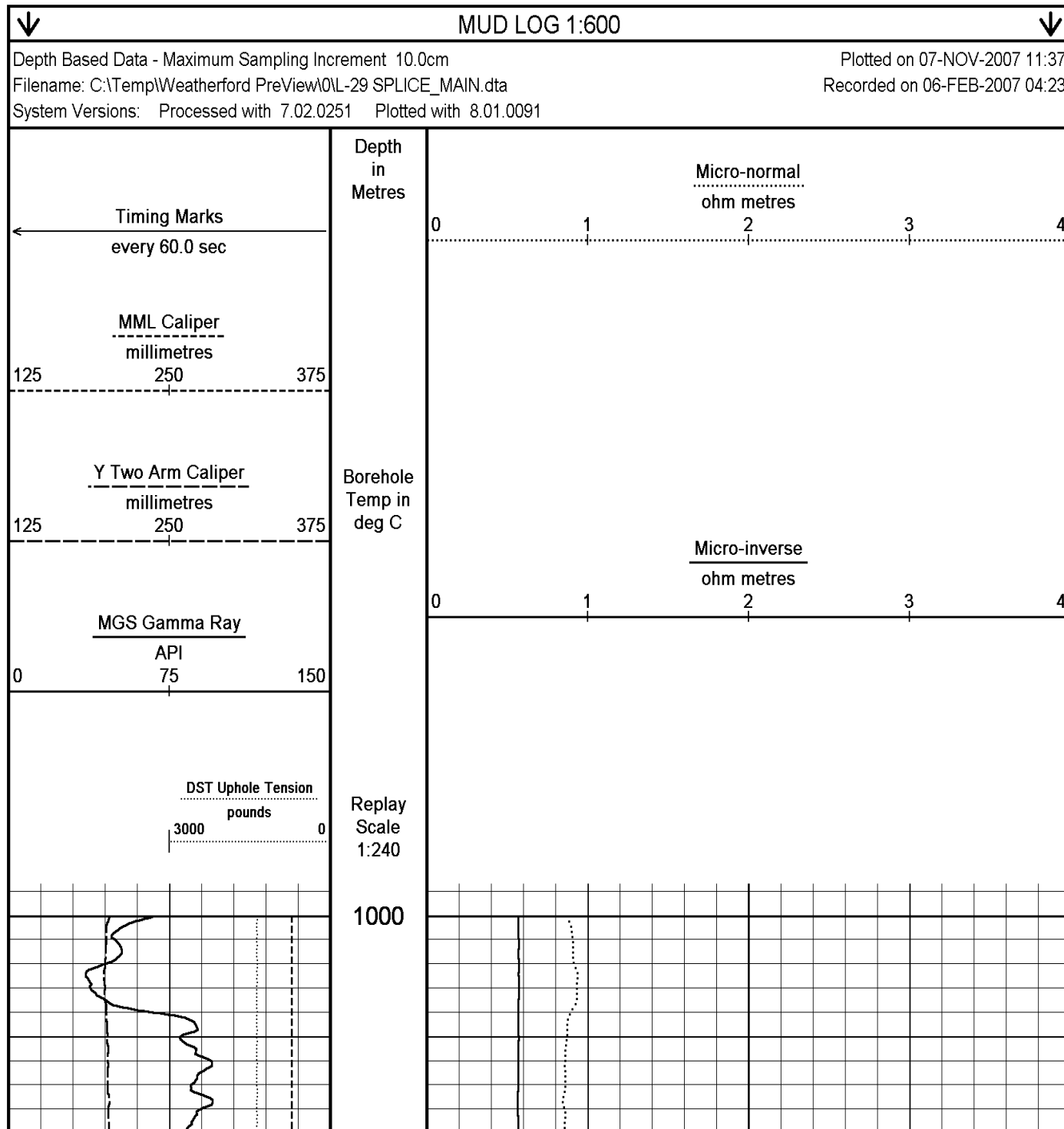
- 1) SOFTWARE ISSUE: WLS 7.01.0195.
- 2) CUSTOMER SCALES AND LOGGED INTERVALS USED
- 3) TOOLS RUN: MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RUN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL BOWSPRING AND INTERSONDE CRANK
MTC: SIX LEAF CENTRALIZER

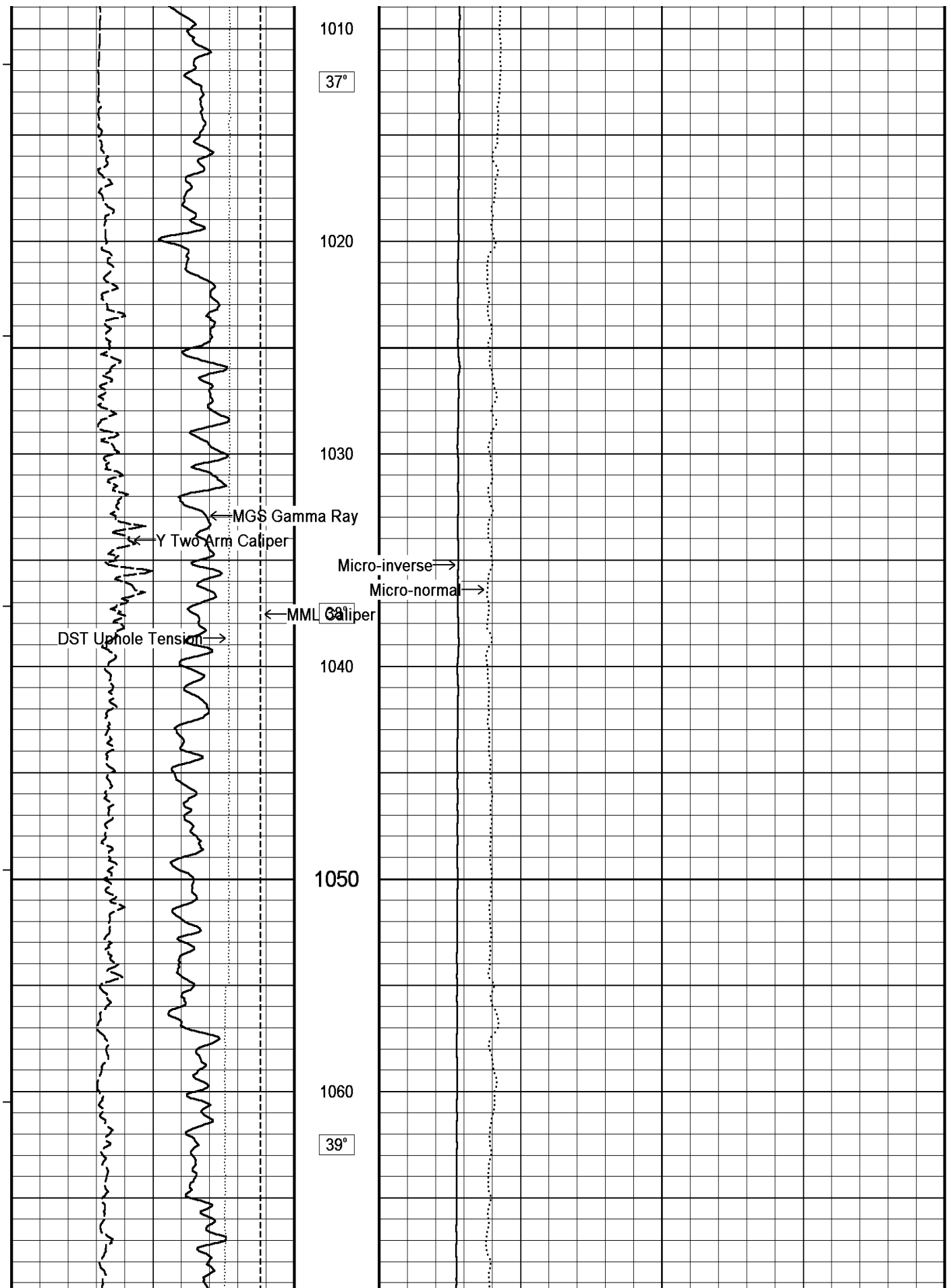
5) SERVICE ORDER #: 30073223

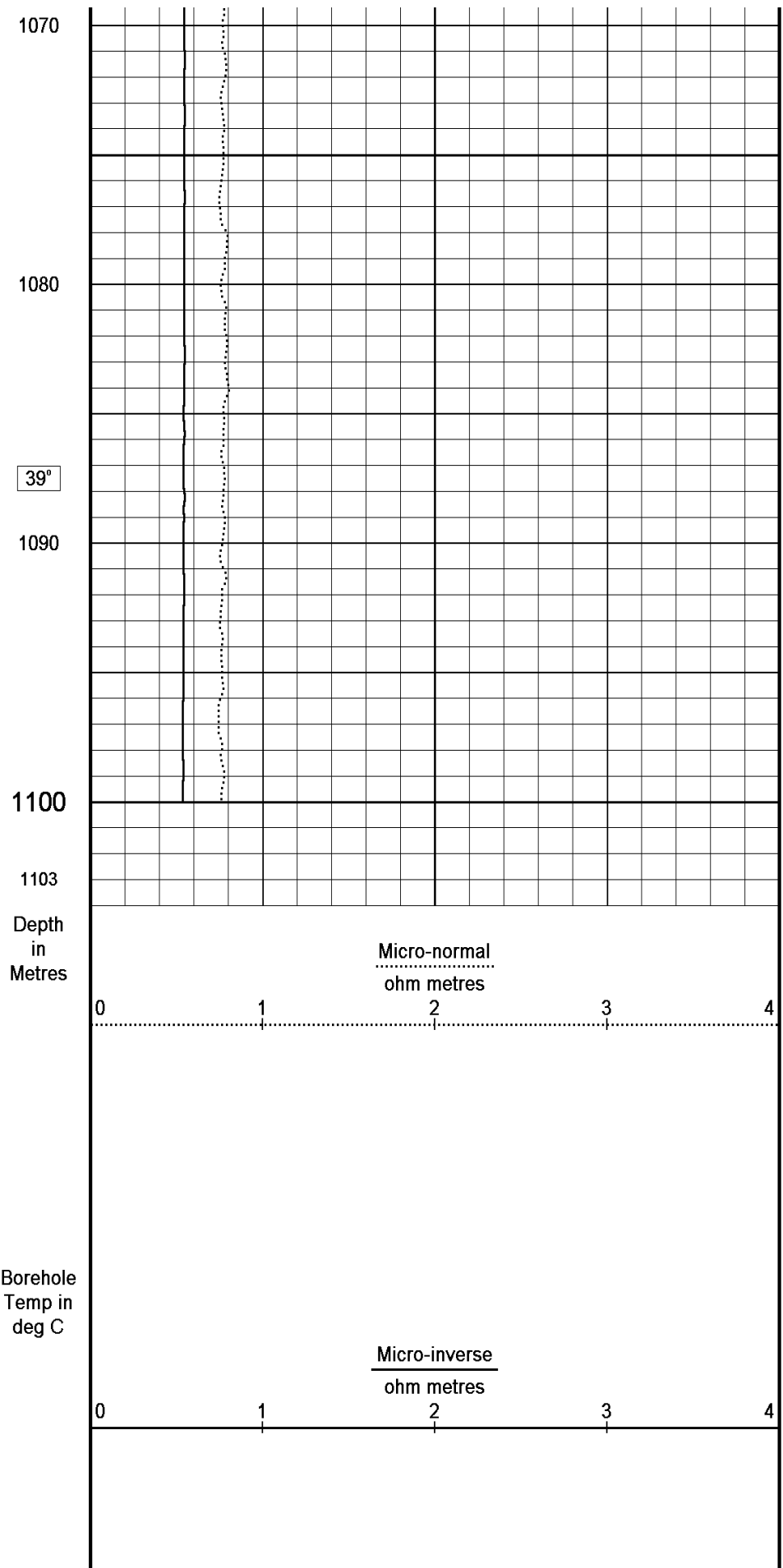
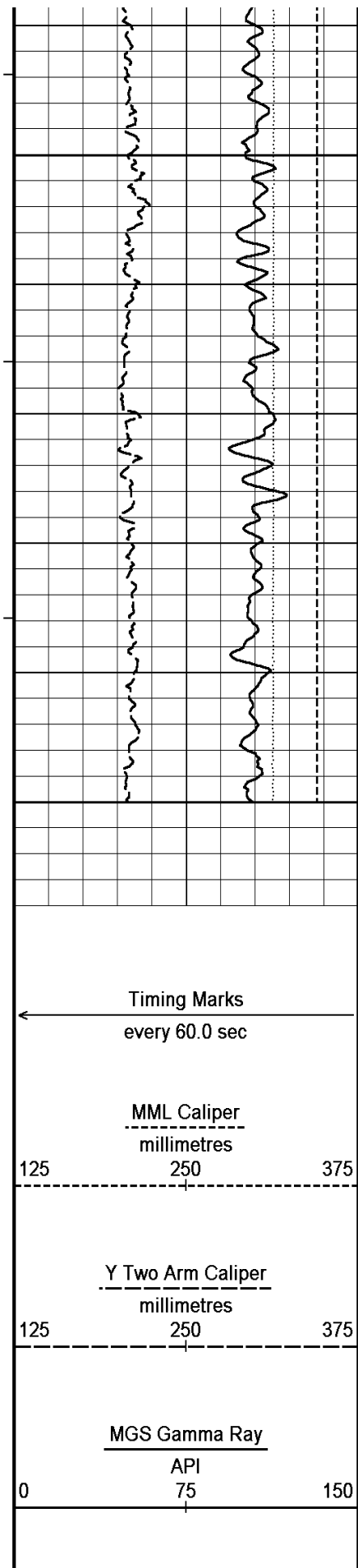
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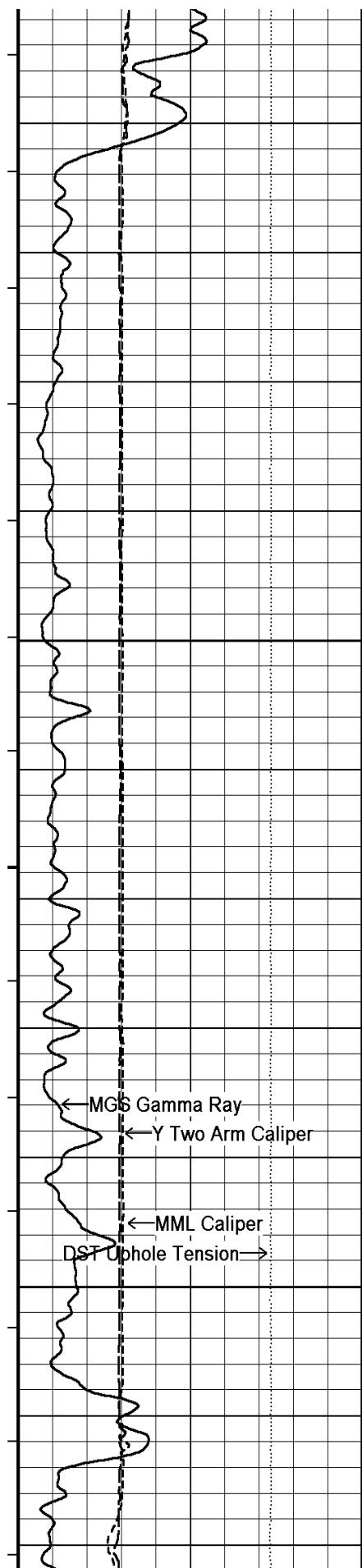
FIELD PRINTS = 1

6) RIG: PD 220









1360

46°

1370

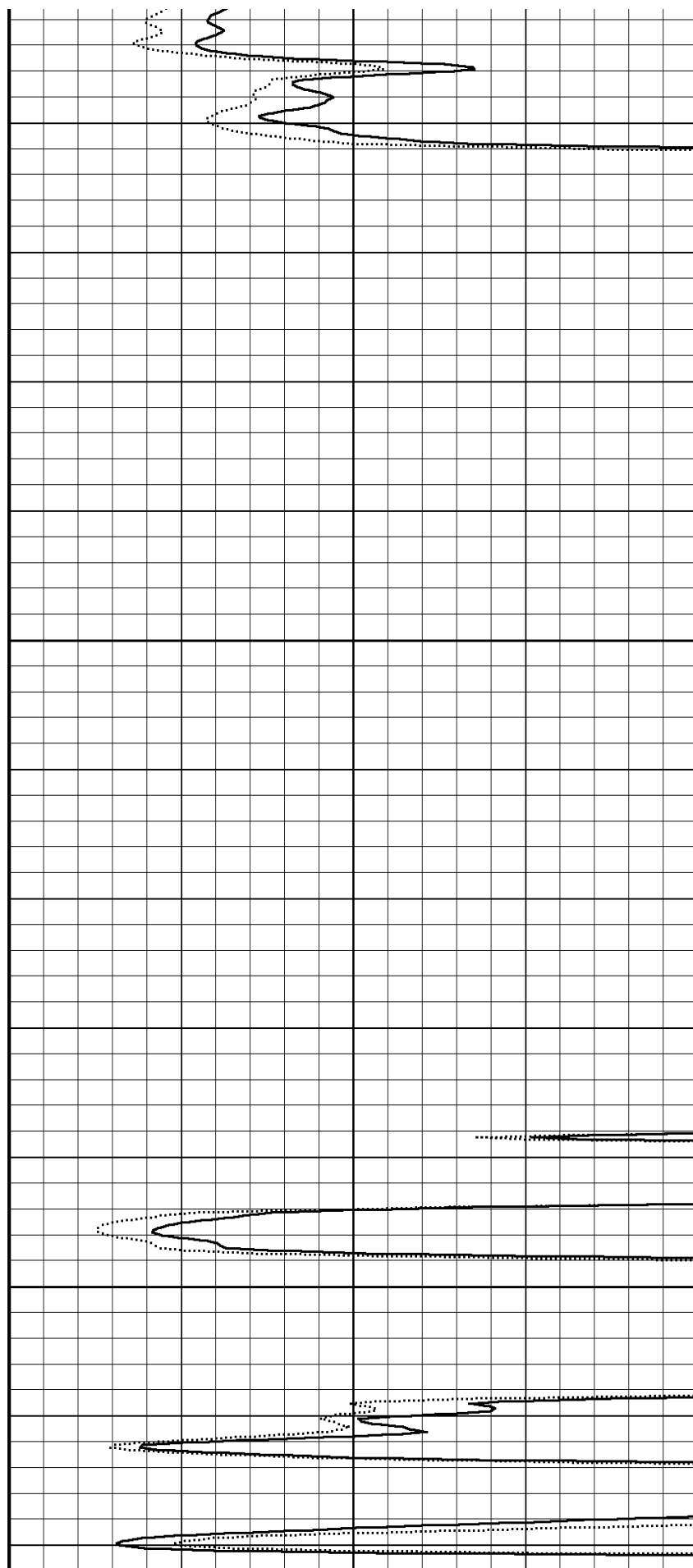
1380

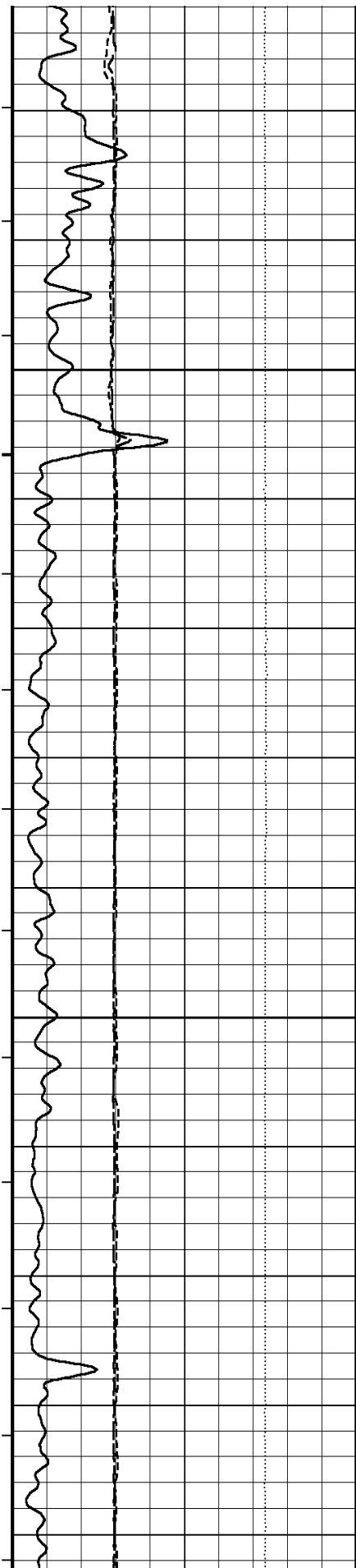
47°

1390

1400

1410





48°

1420

1430

48°

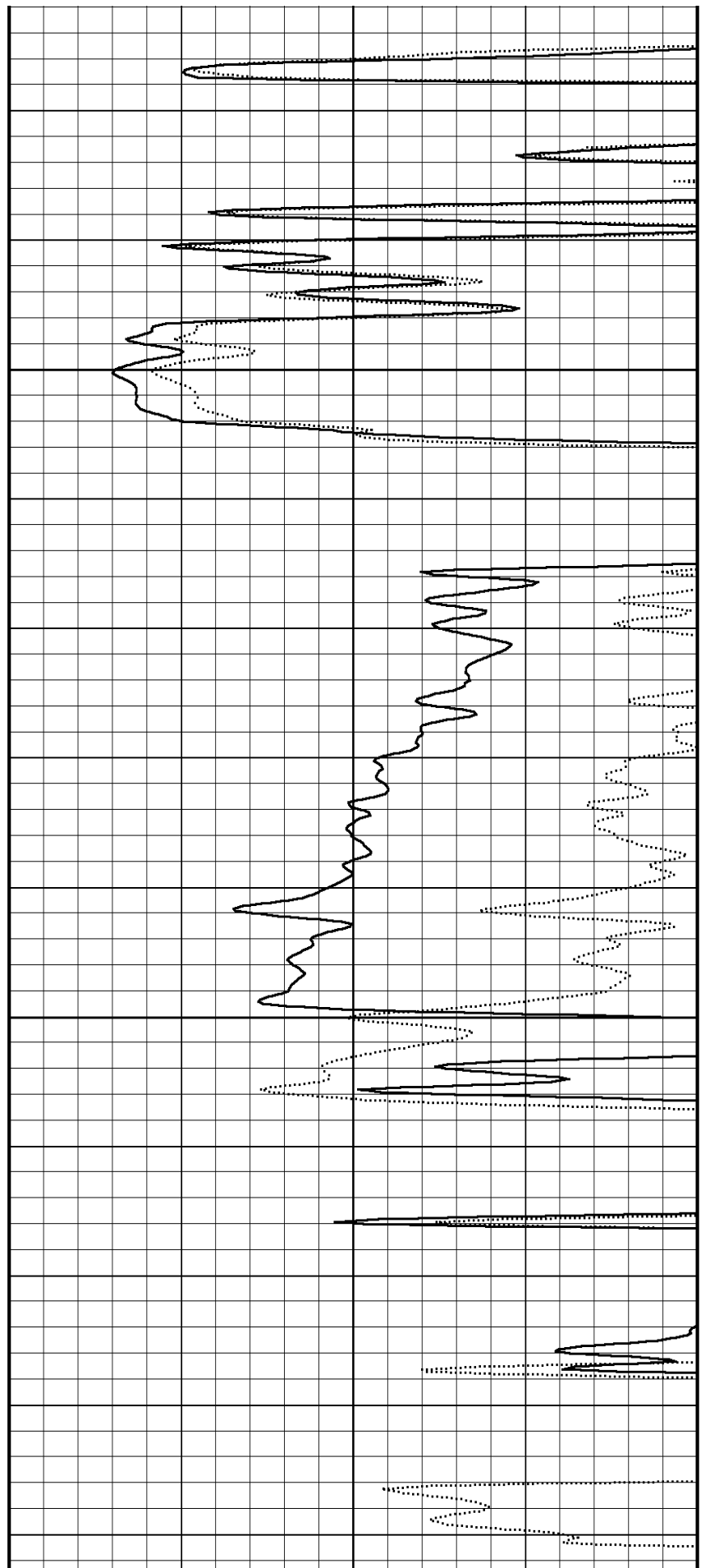
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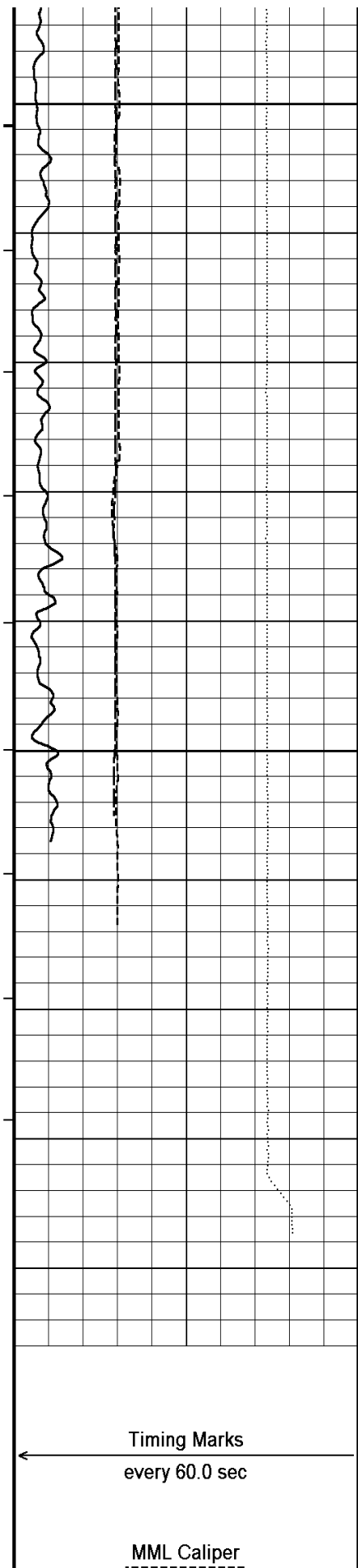
1450

1460

49°

1470





1480

49°

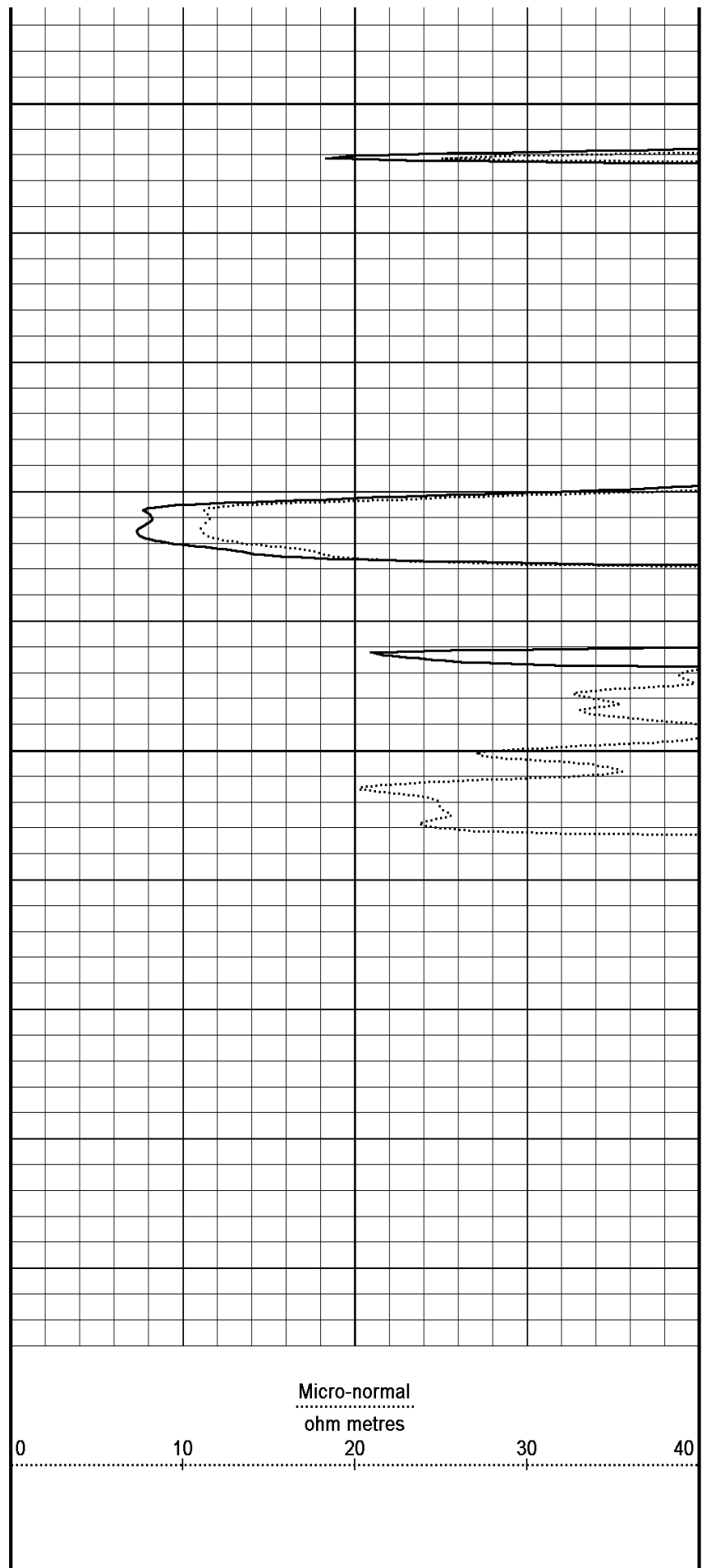
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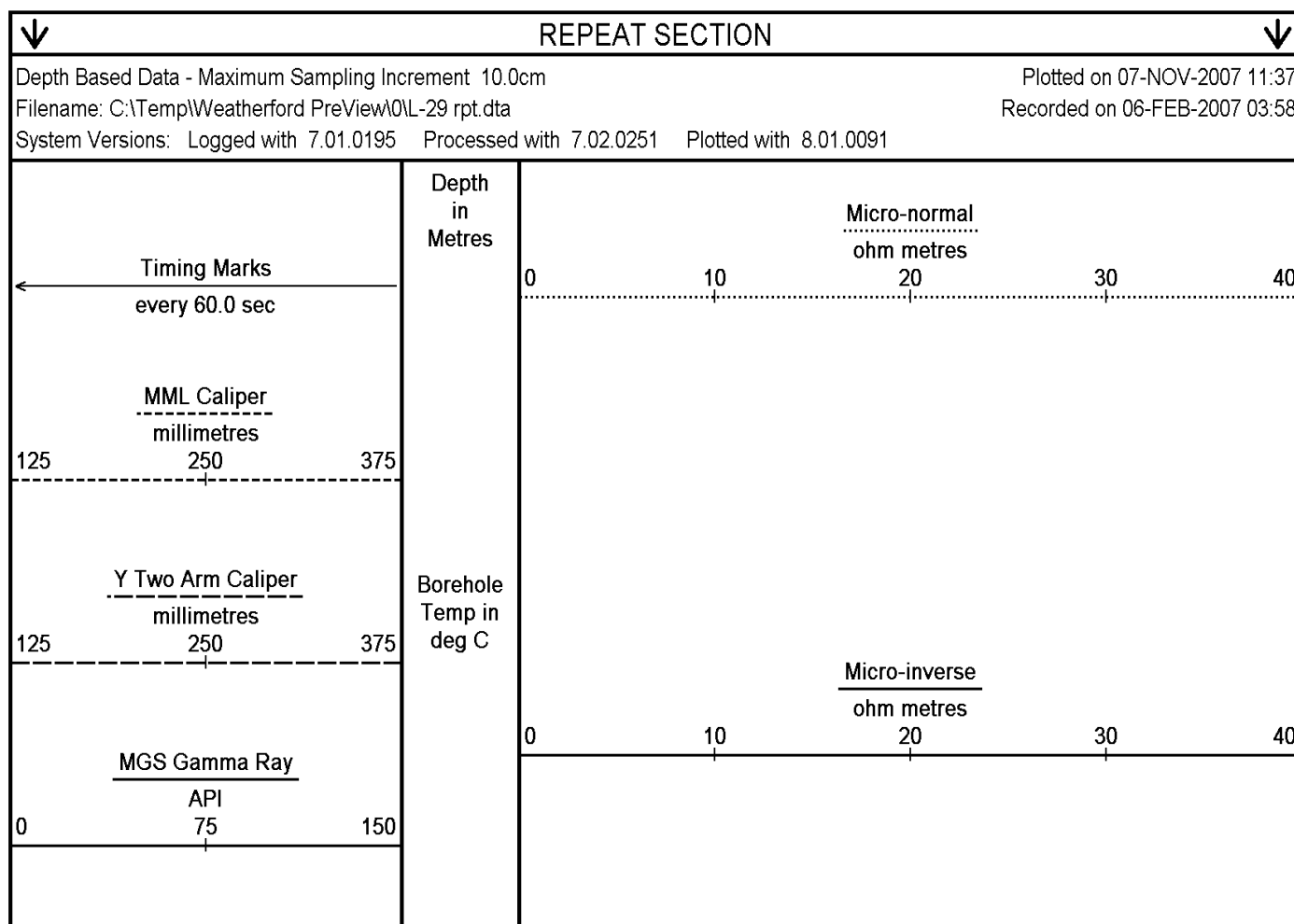
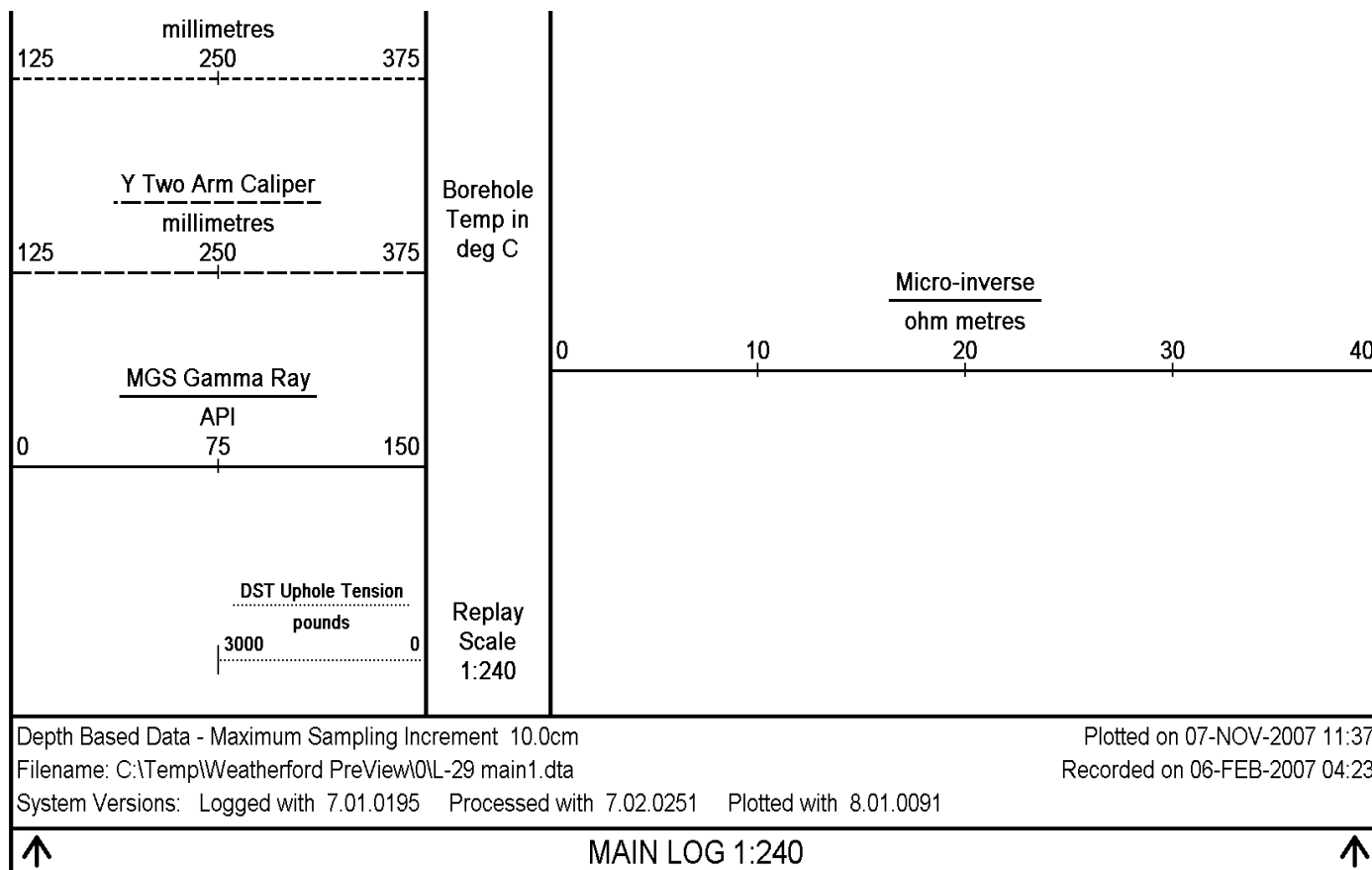
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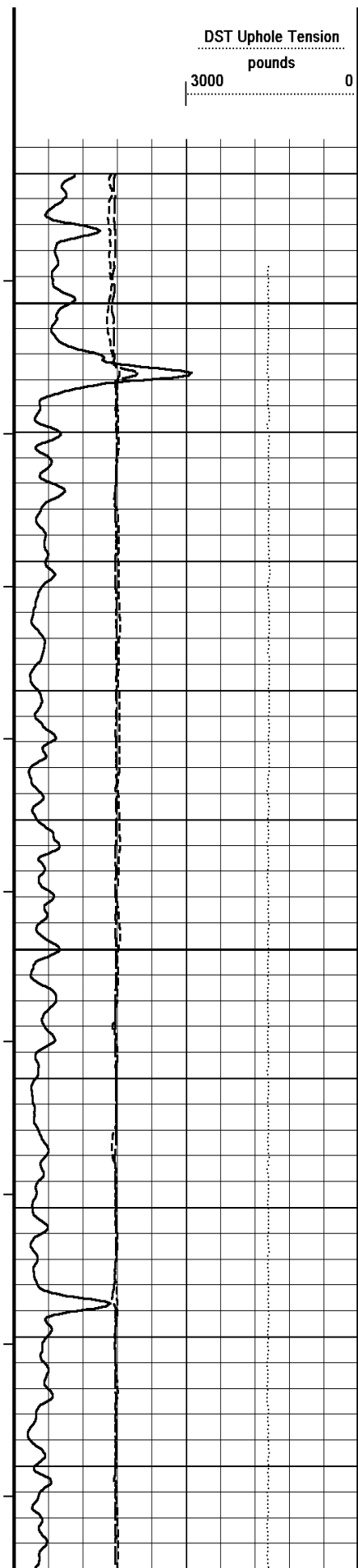
1510

1520

Depth
in
Metres







Replay
Scale
1:240

1420

1430

48°

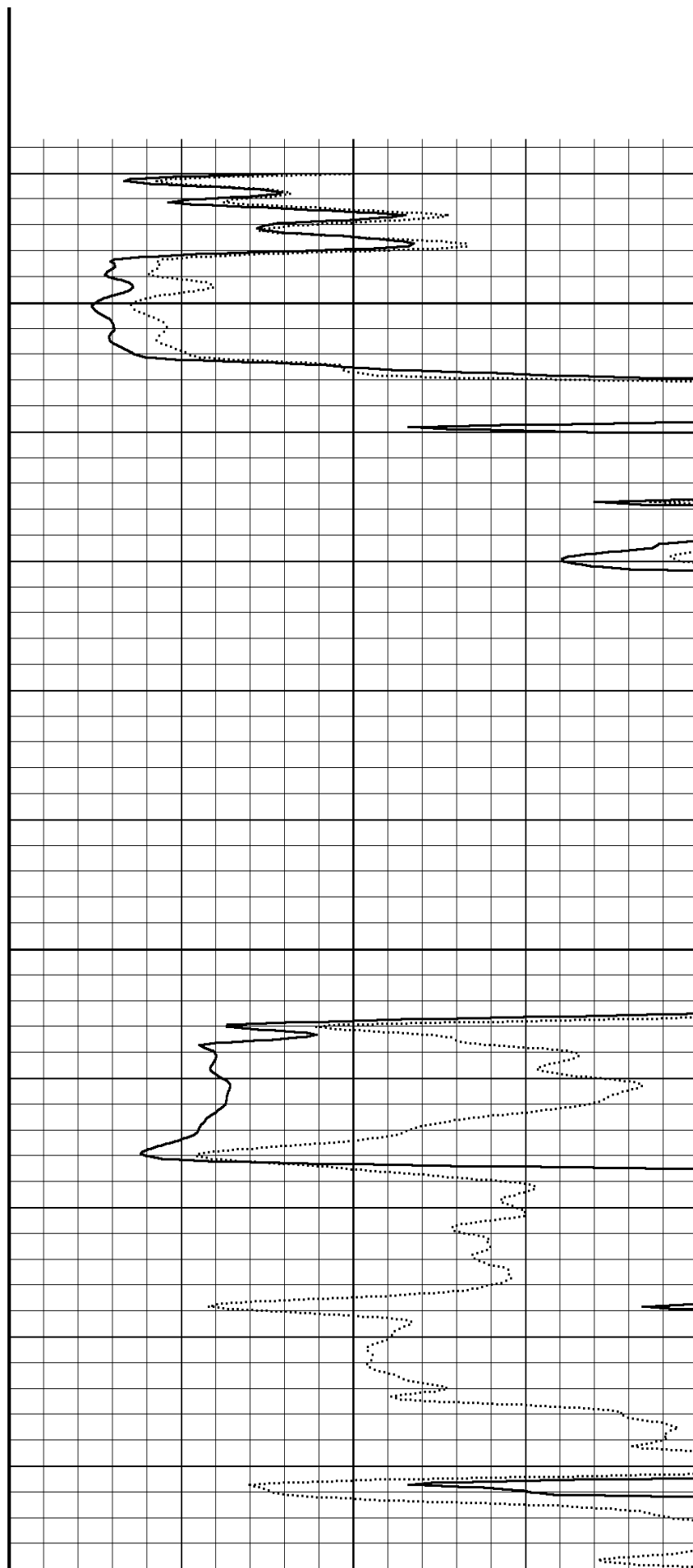
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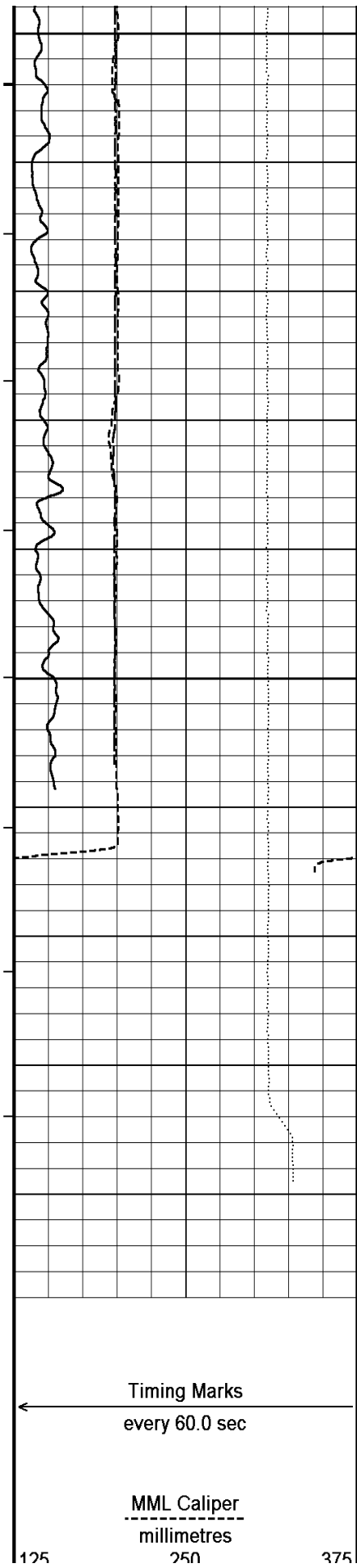
1450

1460

48°

1470





1480

47°

1490

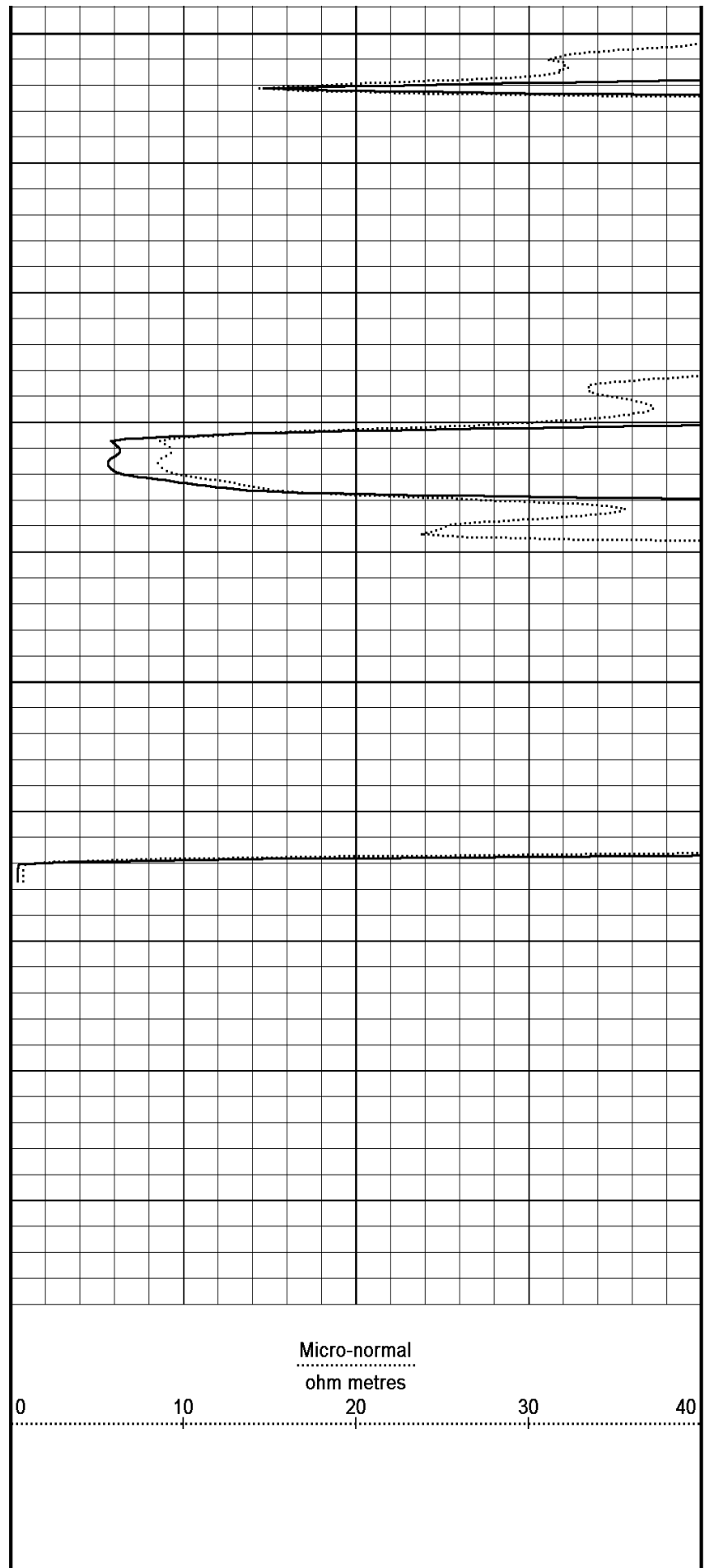
1500

1510

1520

1523

Depth
in
Metres



Micro-normal
ohm metres

0

10

20

30

40

Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm
SP Calibration MCG 159		
	Measured	Calibrated (mV)
Reference 1	99.9	99.5
Reference 2	-99.3	-99.5
High Resolution Temperature Calibration MCG 159		
	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00
High Resolution Temperature Constants MCG 159		
Pre-filter Length	11	
FE Calibration MFE 017		
Base Calibration	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	971.0	126.8
Base Check		279.5
Field Check		280.6
FE Constants MFE 017		
Caliper Source for FE correction	Density Caliper	
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Stand-off	Centred	millimetres
Caliper Calibration MTC 006		
Base Calibration	Measured	Calibrator Size (mm)
Reading No		
1	14734	110.00
2	17539	162.00
3	20248	212.00
4	22990	262.00
5	25897	311.00
6	N/A	N/A
Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	208.40	205.70
Gamma Calibration MGS 010		
	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794
Gamma Constants MGS 010		
Gamma Calibrator Number	grcc075	
Mud Density	1135.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

SP Calibration MGS 010				Field Calibration on 8-NOV-2006,19:47	
	Measured		Calibrated (mV)		
Reference 1	0.0		0.0		
Reference 2	10.0		10.0		
High Resolution Temperature Calibration MGS 010					
	Measured		Calibrated(Deg C)		Field Calibration on 28-NOV-2006,15:40
Lower	10.00		10.00		
Upper	50.00		50.00		
High Resolution Temperature Constants MGS 010					
Pre-filter Length	11				
Micro Normal and Micro Inverse Calibration MML 015				Base Calibration on 25-JAN-2007,17:08 Field Check on 31-JAN-2007 18:48	
Base Calibration					
Channel	Resistor 1	Measured Resistor 2	Calibrated (ohm-m) Resistor 1	Resistor 2	
Micro Normal	9.9	48.5	5.1	25.6	
Micro Inverse	9.9	48.7	3.4	16.9	
Channel	Base Check (ohm-m)		Field Check (ohm-m)		
Micro Normal	79.8		0.0		
Micro Inverse	52.6		0.0		
Micro Normal and Micro Inverse Constants MML 015				Last Edited on 5-FEB-2007,23:14	
Micro Normal K Factor	0.5110				
Micro Inverse K Factor	0.3380				
Standoff Offset	N/A		millimetres		
Caliper Calibration MML 015				Base Calibration on 25-JAN-2007,18:15 Field Calibration on 6-FEB-2007,03:32	
Base Calibration					
Reading No	Measured		Calibrator Size (mm)		
1	13860		162.00		
2	17089		212.00		
3	20617		262.00		
4	24375		311.00		
5	27976		355.00		
6	N/A		N/A		
Field Calibration					
	Measured Caliper (mm)		Actual Caliper (mm)		
	211.00		205.70		
Neutron Calibration MDN 144				Base Calibration on 25-JAN-2007 18:05 Field Check on 5-FEB-2007 23:56	
Base Calibration					
	Measured		Calibrated (cps)		
	Near	Far	Near	Far	
	2967	93	3714	110	
Ratio	31.886		33.764		
Field Calibrator at Base					
			Calibrated (cps)		
			2065 2999		
Ratio			0.689		
Field Check					
			Calibrated (cps)		
			2075 3068		
Ratio			0.676		

Neutron Source Id	16145b	
Neutron Jig Number		
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	mm
Mud Density	1000.00	kg/m3
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kPa
Temperature Source	MCG External Temperature	
Temperature	20.00	degrees C
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Photo Density Calibration MPD 036

Base Calibration on 23-JAN-2007 04:10

Field Check on 5-FEB-2007 23:46

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	52802	28585	60352	31615
Reference 2	21780	2767	25043	2540

Field Check at Base

1184.8	1494.9
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Field Check

1184.7	1500.0
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PE Calibration				
Base Calibration		Measured	Calibrated	
	WS	WH	Ratio	Ratio
Background	213	1052		
Reference 1	22151	52610	0.425	0.400
Reference 2	5909	21638	0.277	0.272

Field Check at Base

213.1	1051.7
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Field Check

211.7	1051.4
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Density Constants MPD 036

Last Edited on 6-FEB-2007,02:32

Density Source Id	2834GW	
Nylon Calibrator Number	608	
Aluminium/Fe Calibrator Number	608	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1135.00	kg/m3
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1000.00	kg/m3
Dry Hole Mud Filtrate Density	1000.00	kg/m3
DNCT	0.00	kg/m3
CRCT	0.00	kg/m3
Density Z/A Correction	0	
Matrix Density (kg/m3)	Depth (m)	
2710.00	- - -	

0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Caliper Calibration MPD 036

Base Calibration on 23-JAN-2007 04:20
Field Calibration on 6-FEB-2007,03:32

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	18576	110.00
2	28032	162.00
3	37841	212.00
4	48080	262.00
5	57920	311.00
6	N/A	N/A

Field Calibration

Measured Caliper (mm)	Actual Caliper (mm)
206.00	205.70

Sonic Constants MSS 060

Last Edited on 6-FEB-2007,03:32

Maximum Boundary Contrast	328.08	micro-sec/m
Fluid Transit Time	620.08	micro-sec/m
Limestone Transit Time	155.84	micro-sec/m
Sandstone Transit Time	182.09	micro-sec/m
Dolomite Transit Time	142.72	micro-sec/m
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	0.00	0

Fixed Gate Parameters

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Down Hole Fixed Gate Parameters

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Initial Discriminator Level	0.0000	mVolts

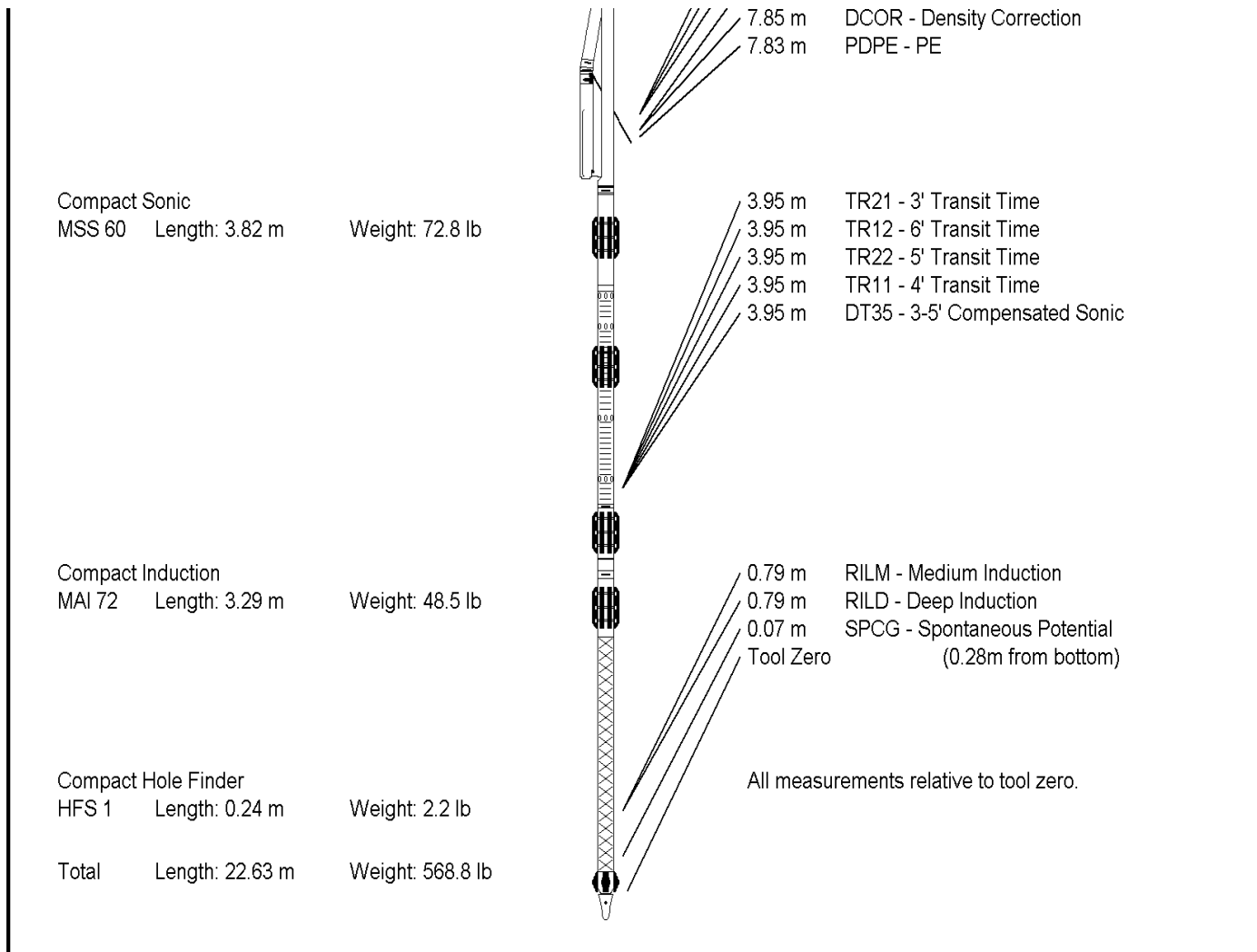
Full Waveform Parameters

Use 3' Waveform to derive TR	N/A
Use 4' Waveform to derive TR	N/A
Use 5' Waveform to derive TR	N/A
Use 6' Waveform to derive TR	N/A
3' Waveform Discriminator Level	N/A mV
4' Waveform Discriminator Level	N/A mV
5' Waveform Discriminator Level	N/A mV
6' Waveform Discriminator Level	N/A mV
3' Waveform Filter	N/A
4' Waveform Filter	N/A
5' Waveform Filter	N/A
6' Waveform Filter	N/A
Seamance Level	N/A

Semblance Level	N/A	micro-sec
Semblance Window Width	N/A	N/A
Sonic 1 Despiker	N/A	N/A
Sonic 2 Despiker	N/A	N/A
Induction Calibration MAI 072		Base Calibration on 25-JAN-2007,18:16 Field Check on 6-FEB-2007 03:36
Base Calibration		
Test Loop Calibration	Measured	Calibrated (mmho/m)
Channel	Low High	Low High
1	13.9 459.6	9.3 966.2
2	5.3 373.2	7.6 821.4
3	2.9 254.1	5.2 566.0
4	1.3 130.4	2.6 279.2
Array Temperature	18.5	Deg C
Channel	Base Check (mmho/m)	Field Check (mmho/m)
	Low High	Low High
1	18.0 3925.2	21.4 3925.8
2	31.0 3598.6	33.0 3598.2
3	29.0 3101.3	30.5 3101.0
4	20.3 2105.9	21.3 2105.5
Deep	18.4 2019.9	19.5 2019.8
Medium	40.9 4089.6	42.7 4089.1
Shallow	45.6 5324.4	48.5 5323.6
Array Temperature	18.5	32.0 Deg C
Induction Constants MAI 072		Last Edited on 6-FEB-2007,03:33
Induction Model	VECTAR	
Caliper for Borehole Corr.	Density Caliper	
Hole Size for Borehole Correction	N/A	millimetres
Stand-off	25.40	millimetres
Number of Fins on Stand-off	5.0000	
Stand-off Fin Width	25.4000	millimetres
Borehole Corr. Rm Source	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Squasher Start	0.0020	mhos/metre
Borehole Normalisation		
DRM1	0.0000	DRC1 0.0000
DRM2	0.0000	DRC2 0.0000
MRM1	0.0000	MRC1 0.0000
MRM2	0.0000	MRC2 0.0000
SRM1	0.0000	SRC1 0.0000
SRM2	0.0000	SRC2 0.0000
Calibration Site Corrections		
Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre
Apparent Porosity and Water Saturation Constants		
Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
High Resolution Temperature Calibration MAI 072		Field Calibration on 11-NOV-2006,04:00

	measured	Calibrated(Deg C)
Lower	1.00	1.00
Upper	10.00	10.00
High Resolution Temperature Constants MAI 072		
Pre-filter Length	11	

DOWNHOLE EQUIPMENT			C:\Temp\Weatherford PreView\0\L-29 rpt.dta	
Compact Gamma MCG 159 Length: 2.65 m	Weight: 63.9 lb		20.78 m	GRGC - Gamma Ray
			19.90 m	CGXT - MCG External Temperature
Compact Focussed Electric MFE 17 Length: 1.84 m	Weight: 48.5 lb		18.79 m	FEFE - Shallow FE
Compact Two Arm Caliper MTC 6 Length: 2.17 m	Weight: 61.7 lb		16.33 m	CLYC - Y Two Arm Caliper
Compact Short Gamma MGS 10 Length: 1.04 m	Weight: 24.3 lb		15.46 m	GRGM - MGS Gamma Ray
Compact InterSonde Crank ISC 159 Length: 0.70 m	Weight: 24.3 lb			
Compact Micro-log MML 15 Length: 2.43 m	Weight: 81.6 lb		12.10 m	MINV - Micro-inverse
			12.10 m	MNRL - Micro-normal
			12.10 m	MLTC - MML Caliper
Compact Neutron MDN 144 Length: 1.53 m	Weight: 50.7 lb		10.64 m	NPRS - Sandstone Neutron Por.
Compact Density/Caliper MPD 36 Length: 2.92 m	Weight: 90.4 lb		8.06 m	AVOL - Annular Volume
			8.06 m	HVOL - Hole Volume
			8.06 m	CLDC - Density Caliper
			7.85 m	DPRS - Sandstone Density Por.



COMPANY		PARAMOUNT RESOURCES LTD.			
WELL		PARA ET AL CAMERON L-29			
FIELD		CAMERON HILLS			
PROVINCE/COUNTY		NORTHWEST TERRITORIES			
COUNTRY/STATE		CANADA			
Elevation Kelly Bushing	759.50	metres	First Reading	1504.10	metre
Elevation Drill Floor		metres	Depth Driller	1515.50	metres
Elevation Ground Level	754.10	metres	Depth Logger	1516.70	metres




MICROLOG