



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	
				ARRAY INDUCTION	
API Number				COMPENSTATED SONIC	
Permit Number 2041				PHOTO DENSITY	
Permanent Datum GROUND LEVEL, Elevation 754.1 metres				DUAL SPACED NEUTRON	
Log Measured From 5.4 M above Permanent Datum				Elevations:	
Drilling Measured From KB				KB	metres
				DF	759.50
				GL	754.10
Date	05-FEB-2006				
Run Number	1				
Depth Driller	1515.50 metres				
Depth Logger	1516.70 metres				
First Reading	1504.10 metre				
Last Reading	1340.00 metre				
Casing Driller	435.50 metres				
Casing Logger	436.00 metres				
Bit Size	200.00 mm				
Hole Fluid Type	GEL CHEM				
Density / Viscosity	1135.0 kg/M3 80.00 CP				
PH / Fluid Loss	10.50 10.00 ml/30Min				
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.92 @ 25.0 ohm-m				
Rmf @ Measured Temp	0.69 @ 25.0 ohm-m				
Rmc @ Measured Temp	1.12 @ 25.0 ohm-m				
Source Rmf / Rmc	PRESS FILTER				
Rm @ BHT	0.60 @ 49.0 ohm-m				
Time Since Circulation	7.0 HRS				
Max Recorded Temp	49.00 deg C				
Equipment Name	COMPACT				
Equipment / Base	QUINT GPR				
Recorded By	M. BONNELL				
Witnessed By	B. POWELL				
CIRC. STOP TIME	FEB-05 21:00				
Last Line					

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

SAP #: 4146696

FIELD PRINTS = 1

6) RIG: PD 220

7) SONIC FREE PIPE: FOUND FROM 382-386M

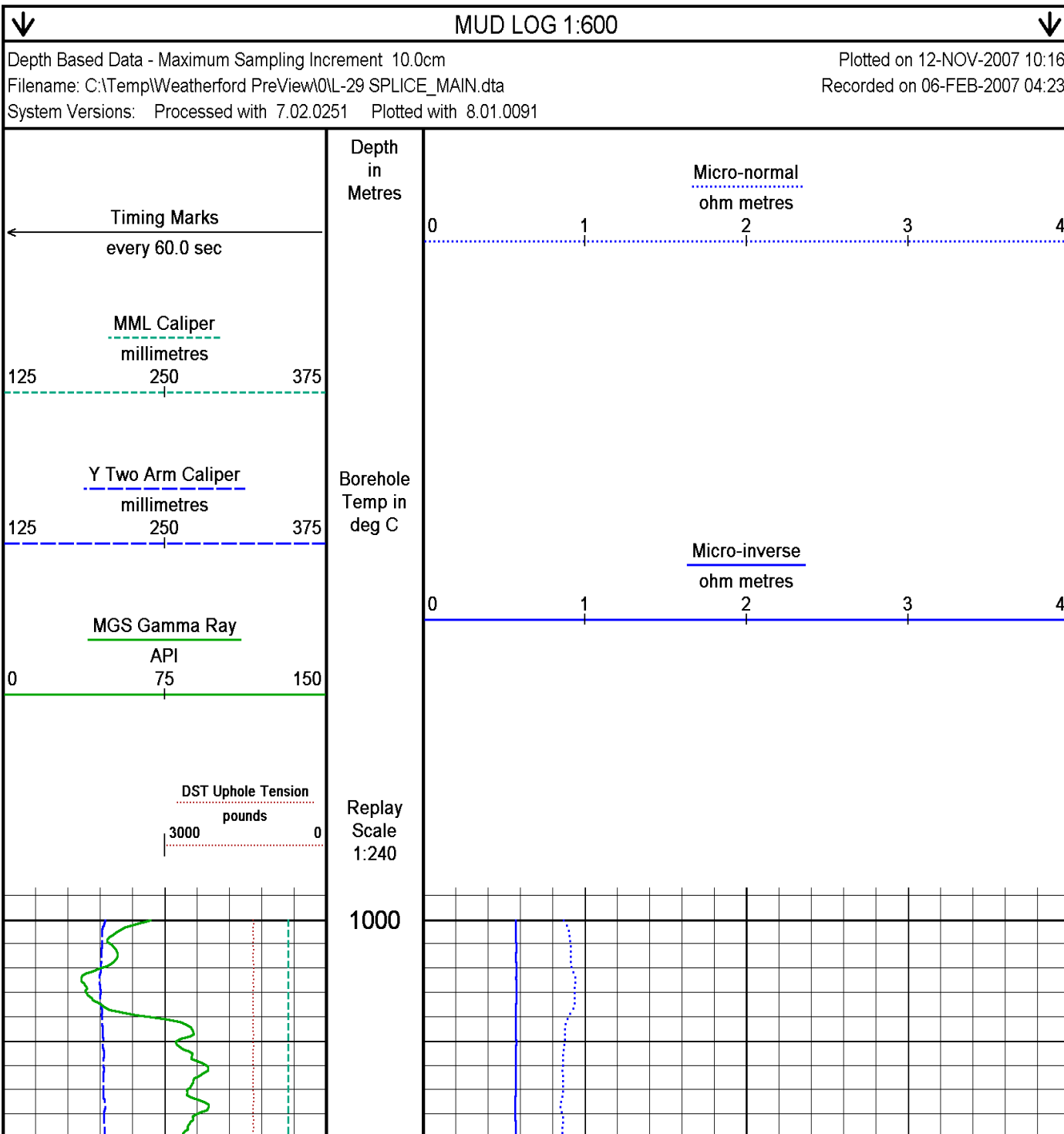
8) HOLE AND CEMENT VOLUMES FROM TD-SURFACE CASING CALCULATED USING DENSITY AND 2-ARM CALIPERS :

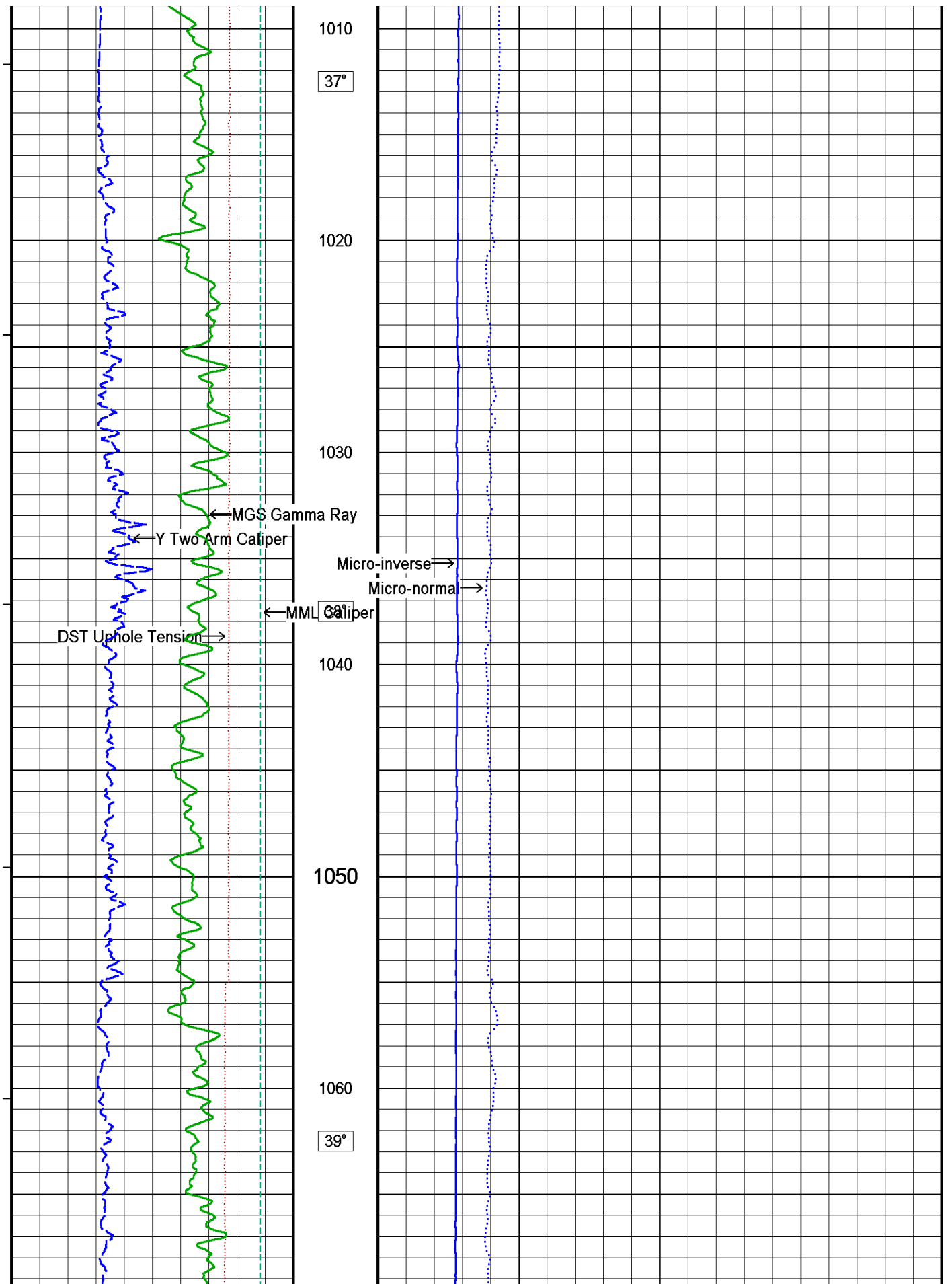
HOLE VOLUME = 41.0 CU.M.

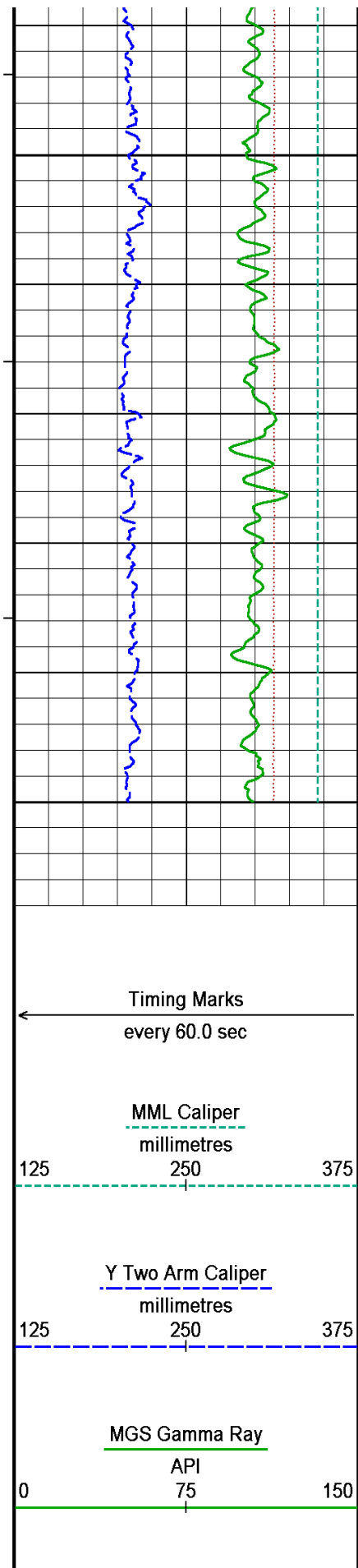
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 24.6 CU.M

9) SALTY INDUCTION MODEL PRESENTED OFF BOTTOM.

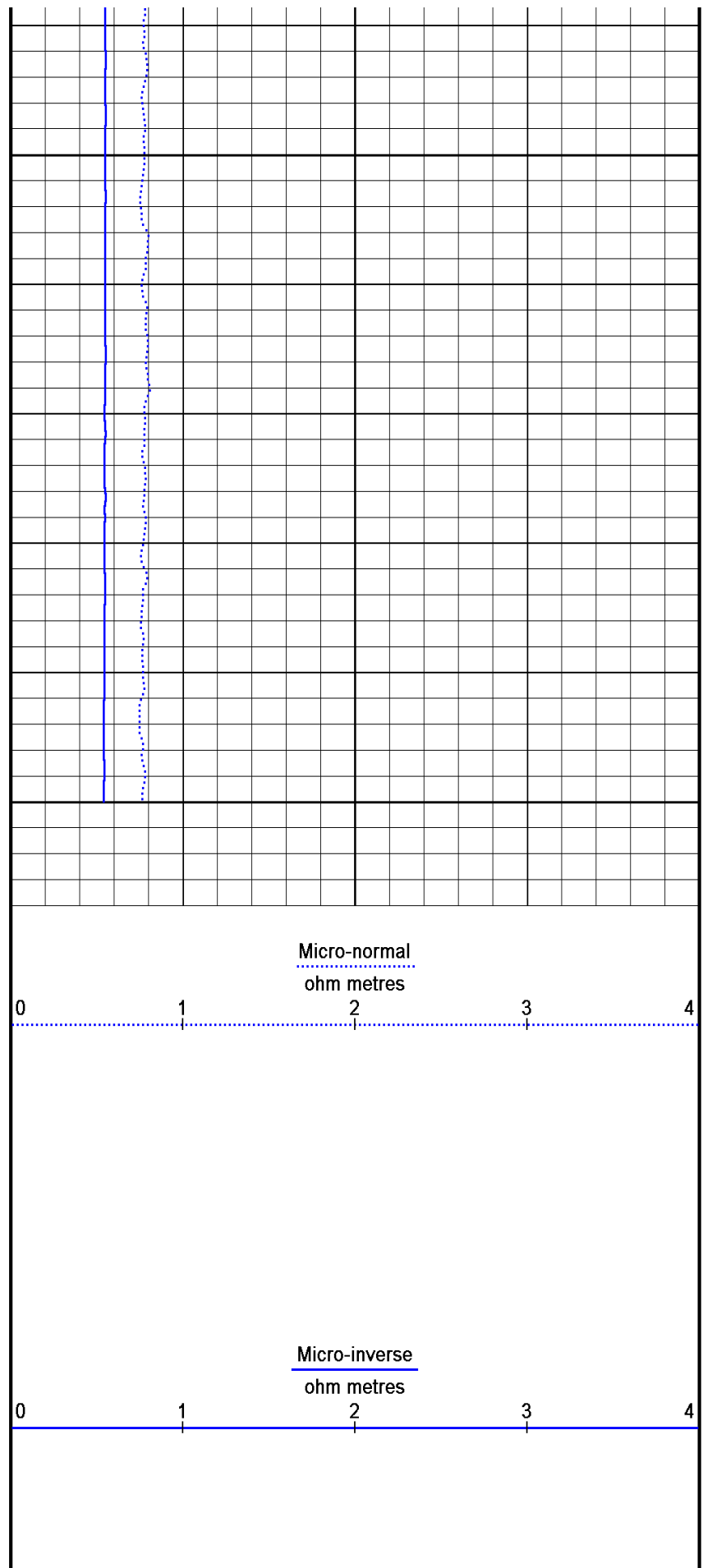
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.

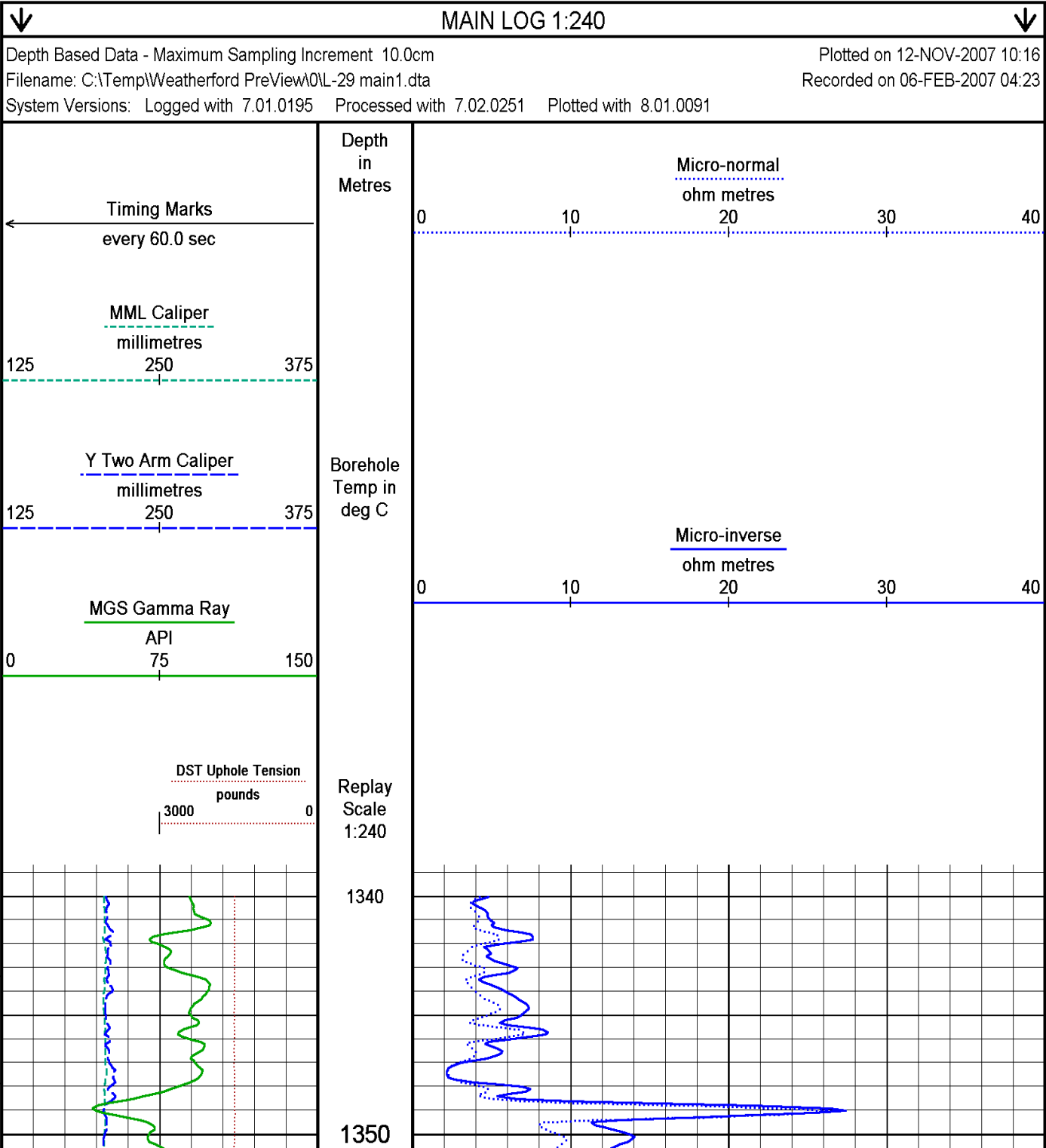
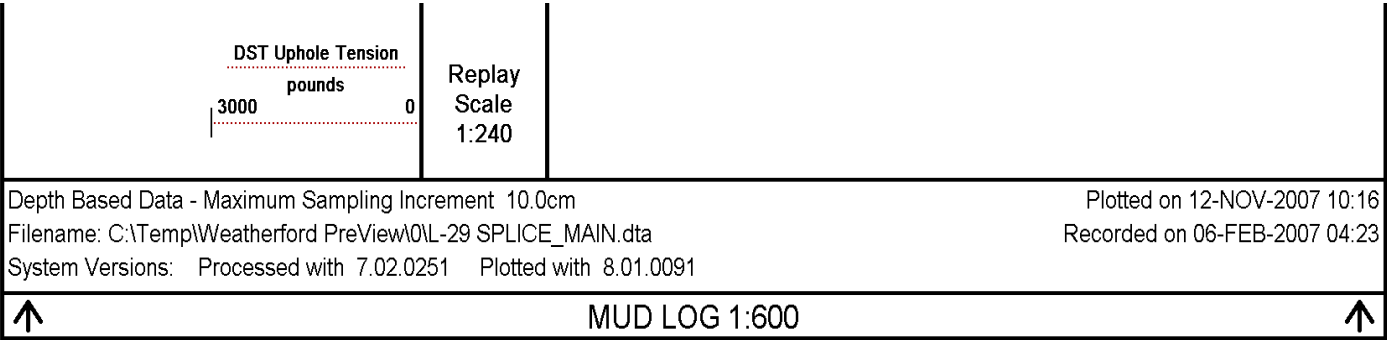


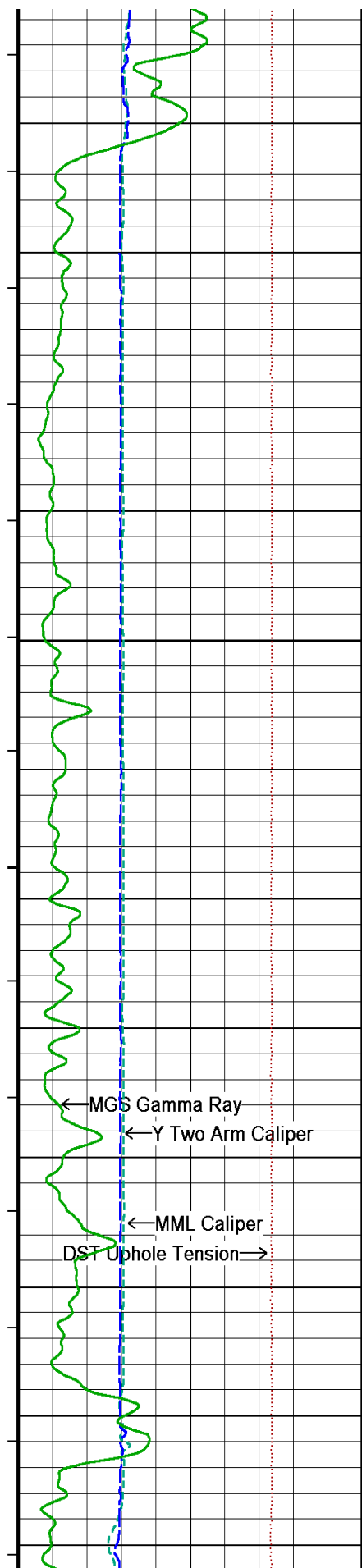




1070
1080
39°
1090
1100
1103
Depth in Metres







1360

46°

1370

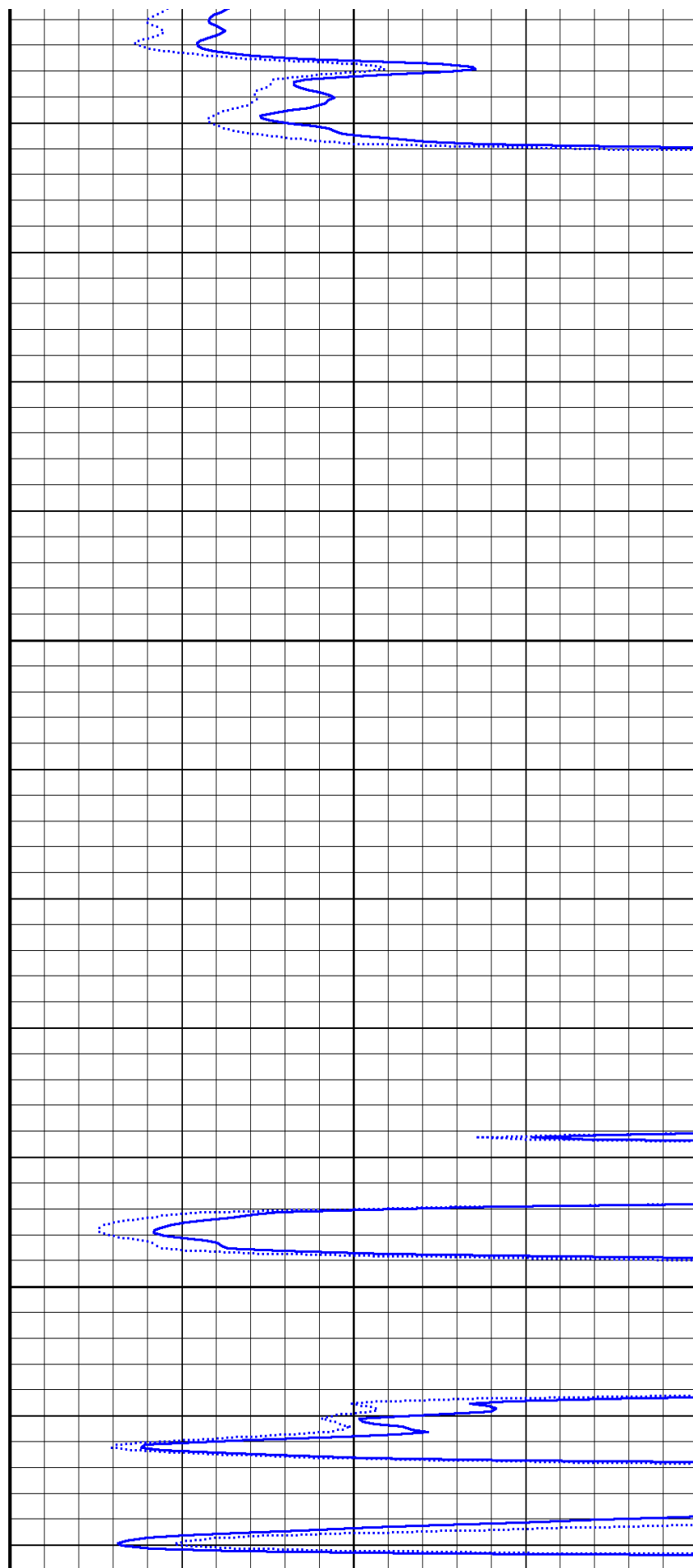
1380

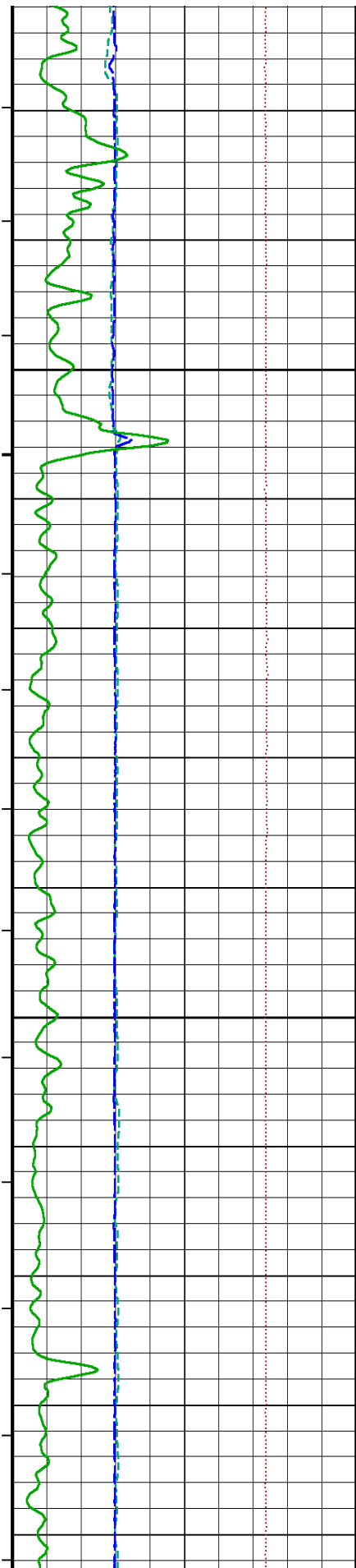
47°

1390

1400

1410





48°

1420

1430

48°

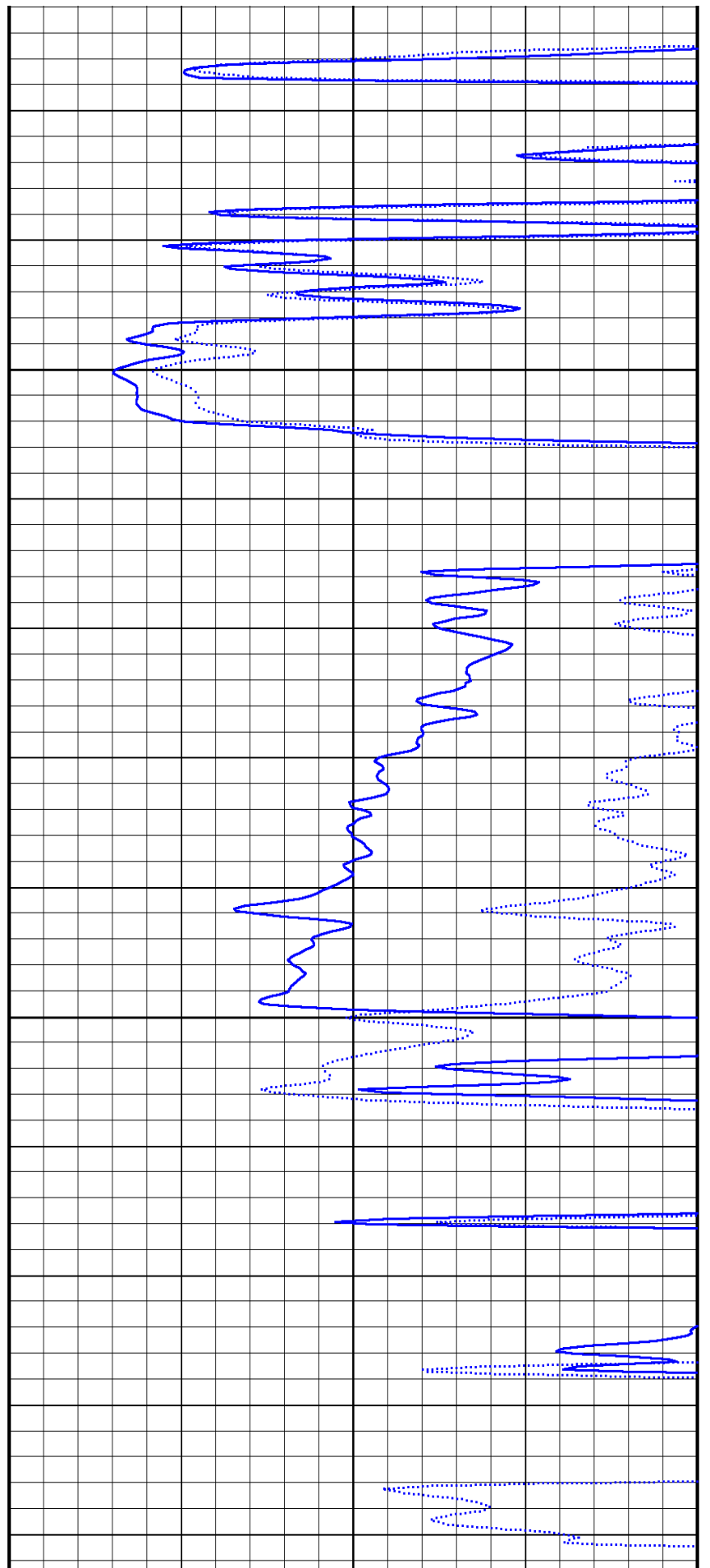
1440

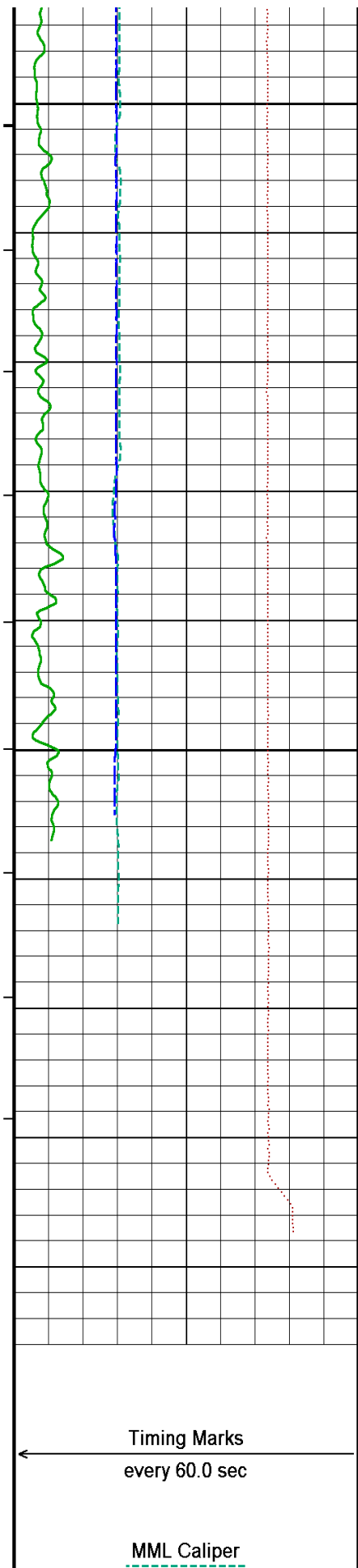
1450

1460

49°

1470





1480

49°

1490

1500

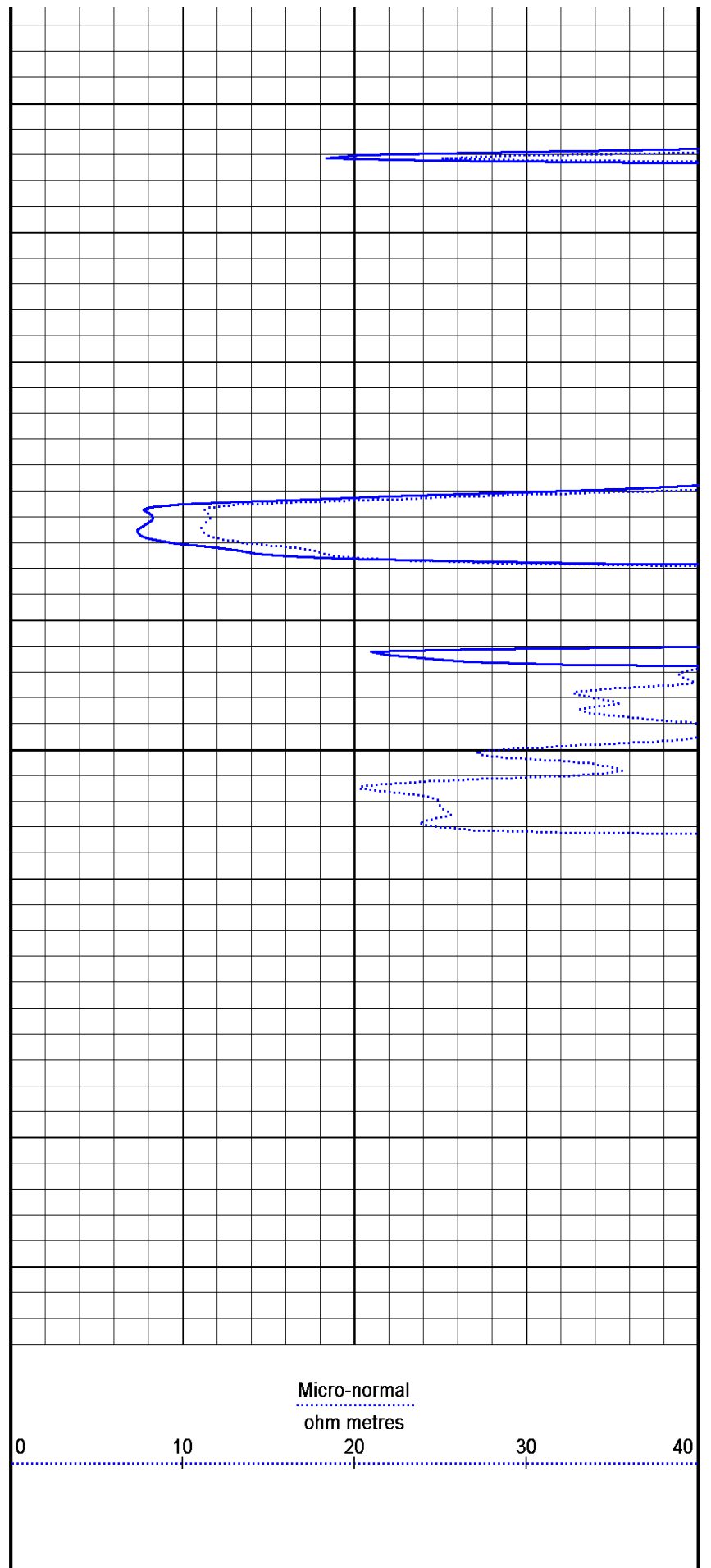
1510

1520

Depth
in
Metres

Timing Marks
every 60.0 sec

MML Caliper



Micro-normal
ohm metres

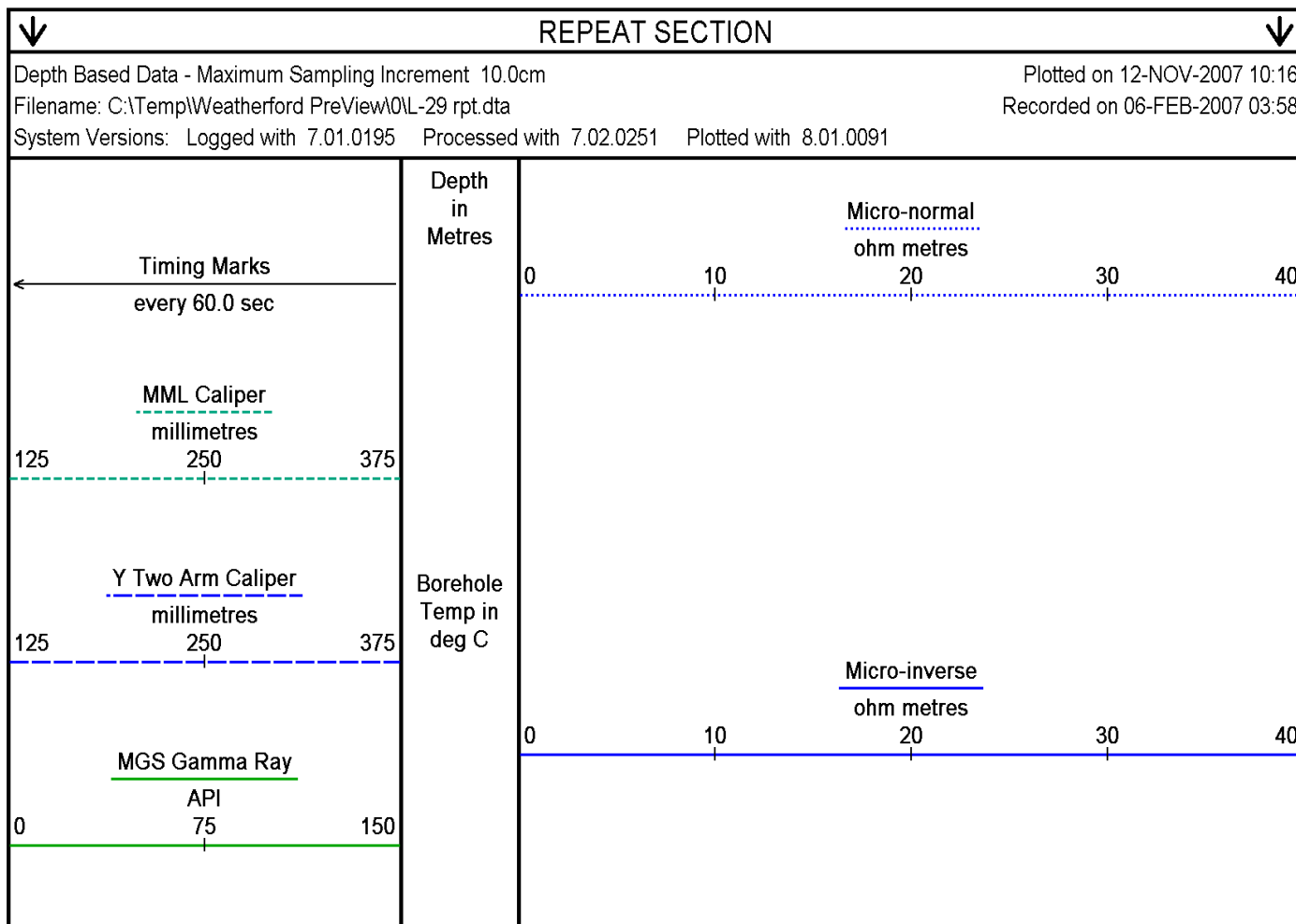
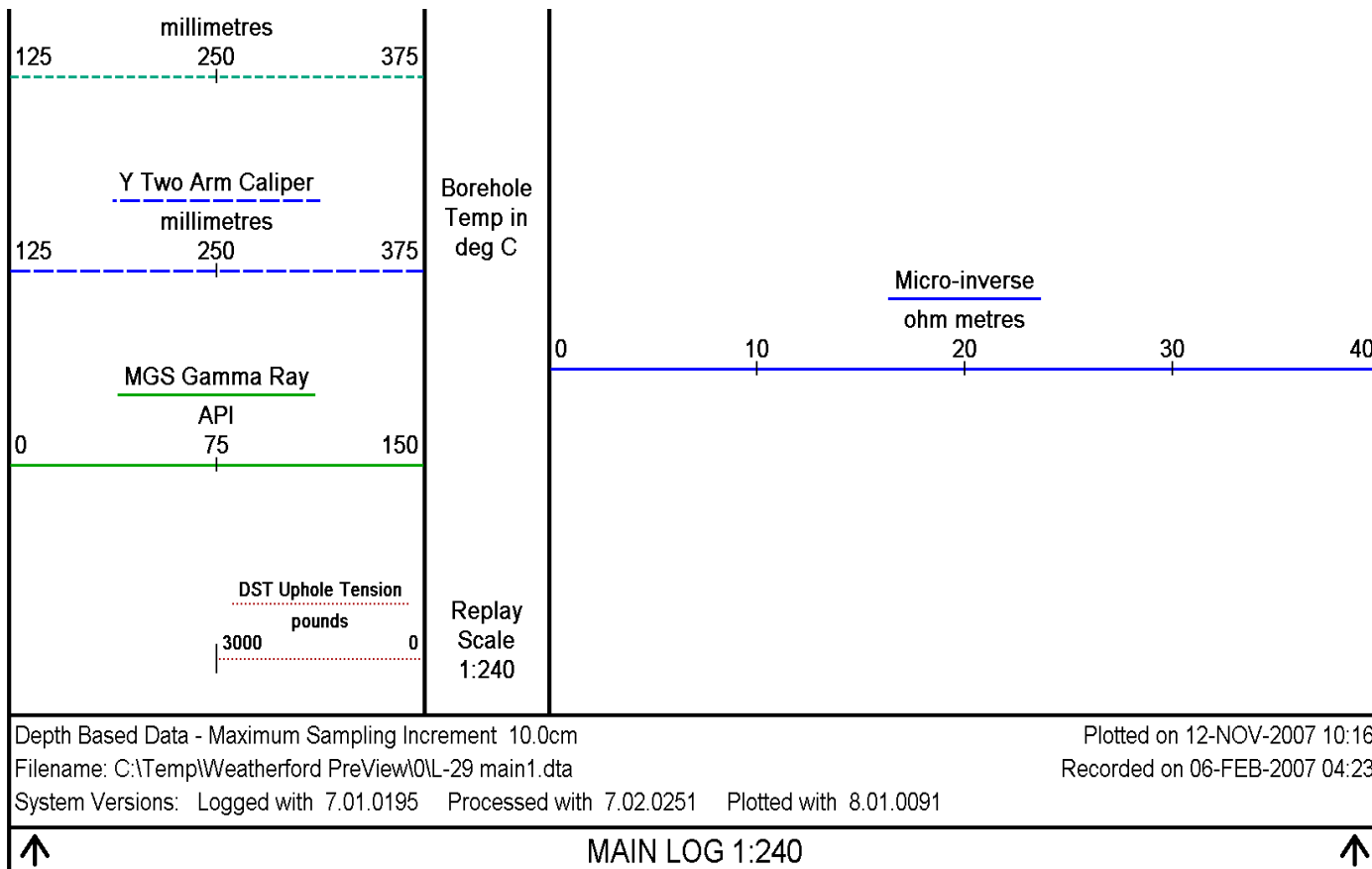
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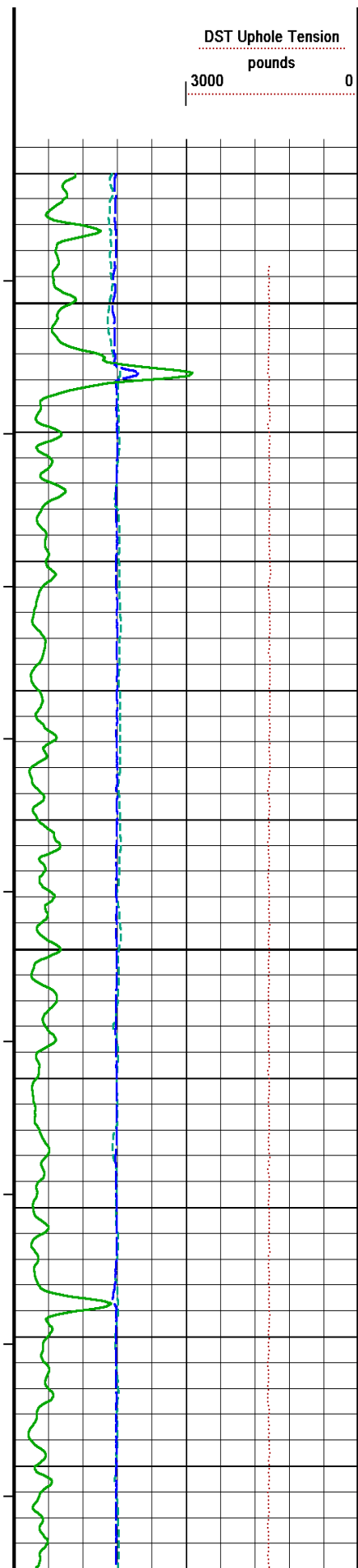
10

20

30

40





Replay
Scale
1:240

1420

1430

48°

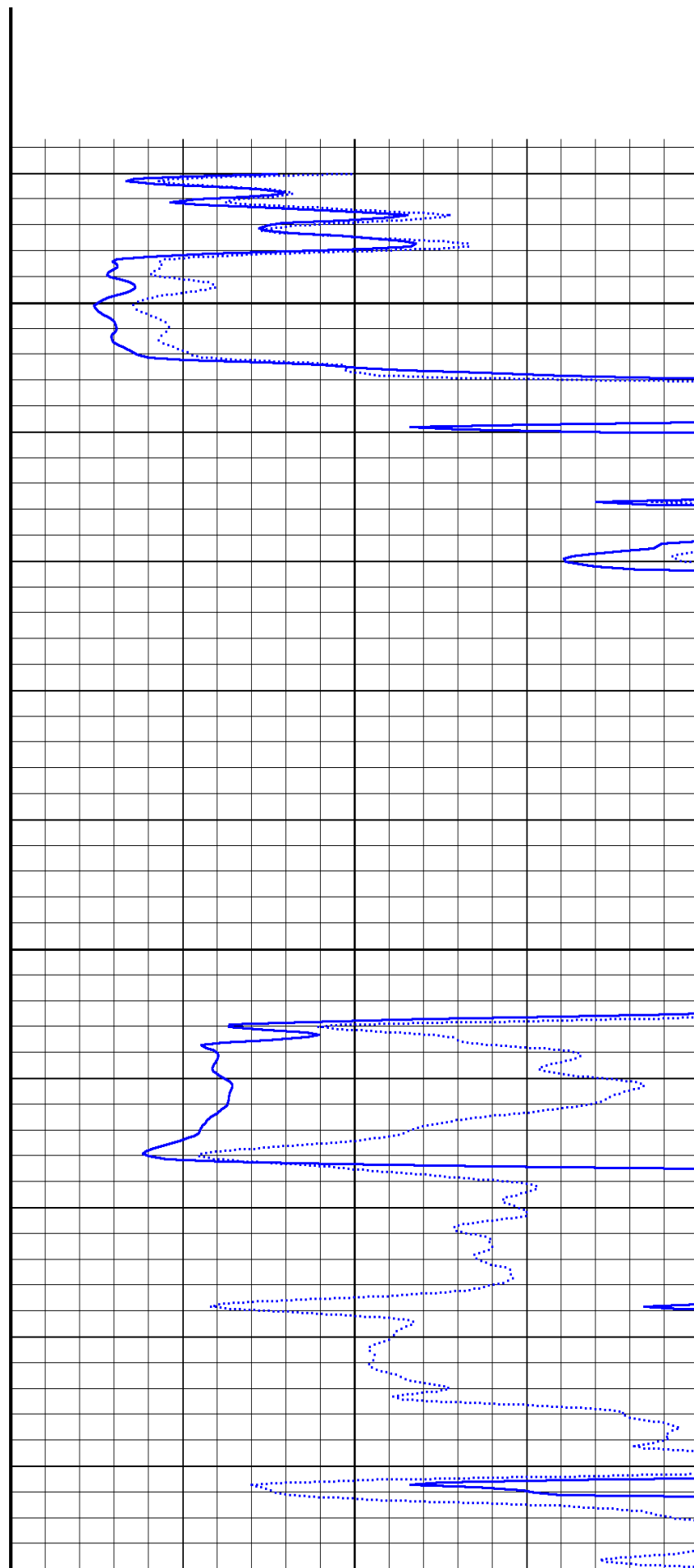
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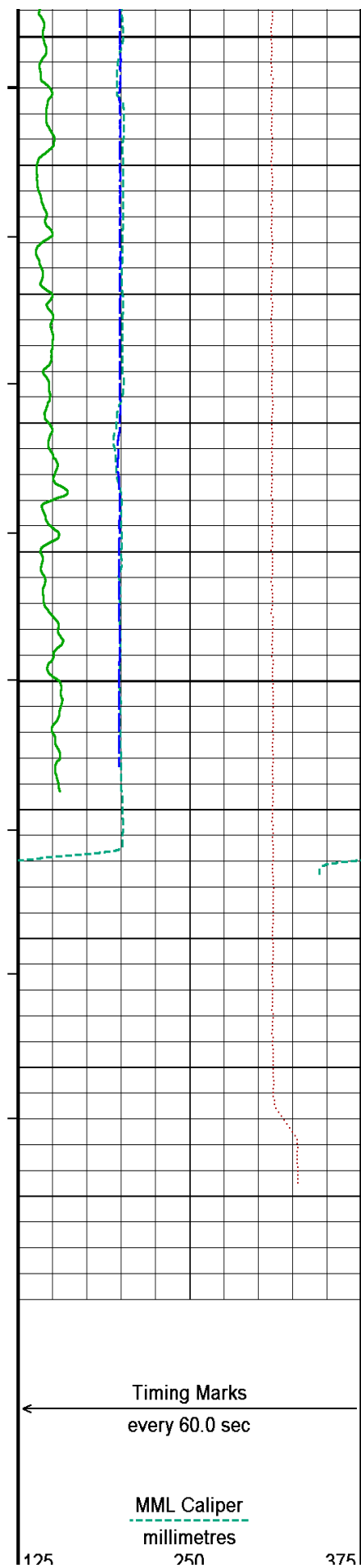
1450

1460

48°

1470





1480

47°

1490

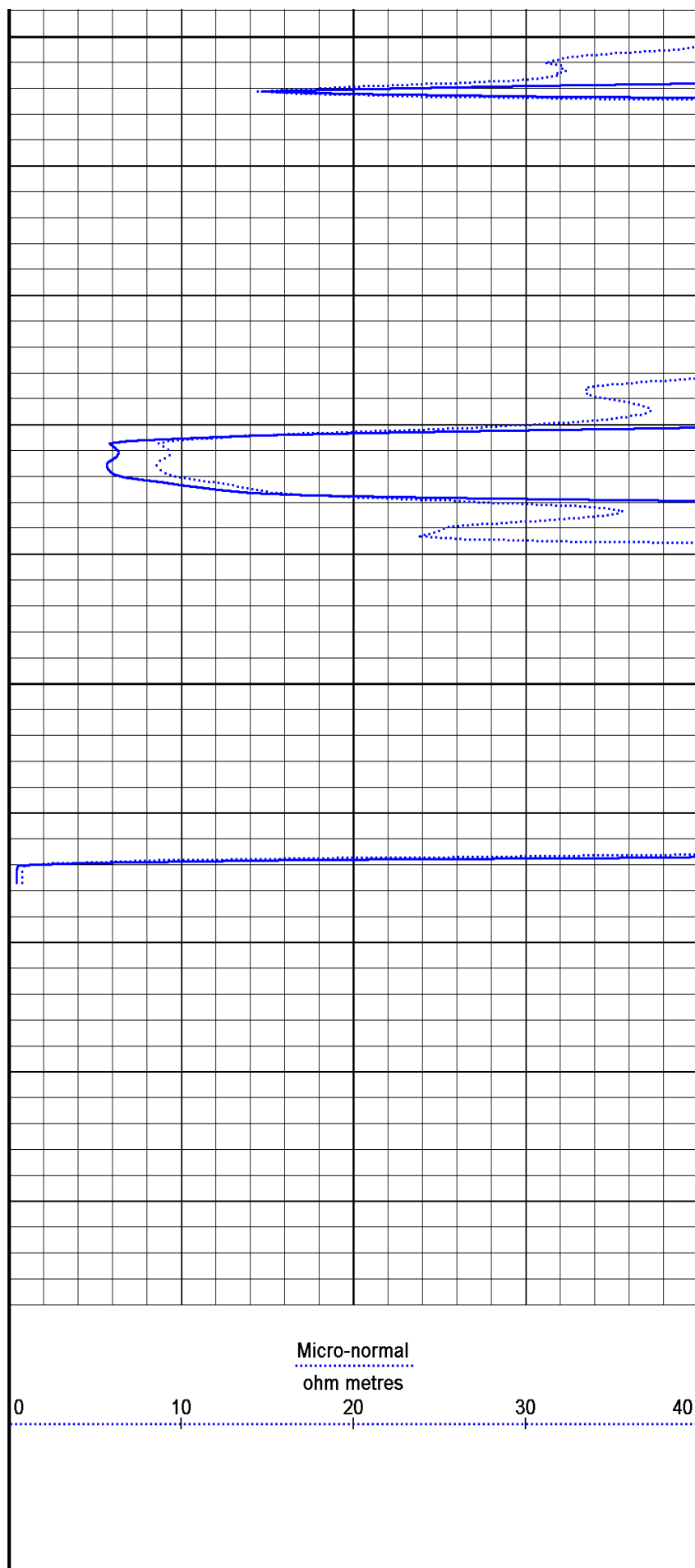
1500

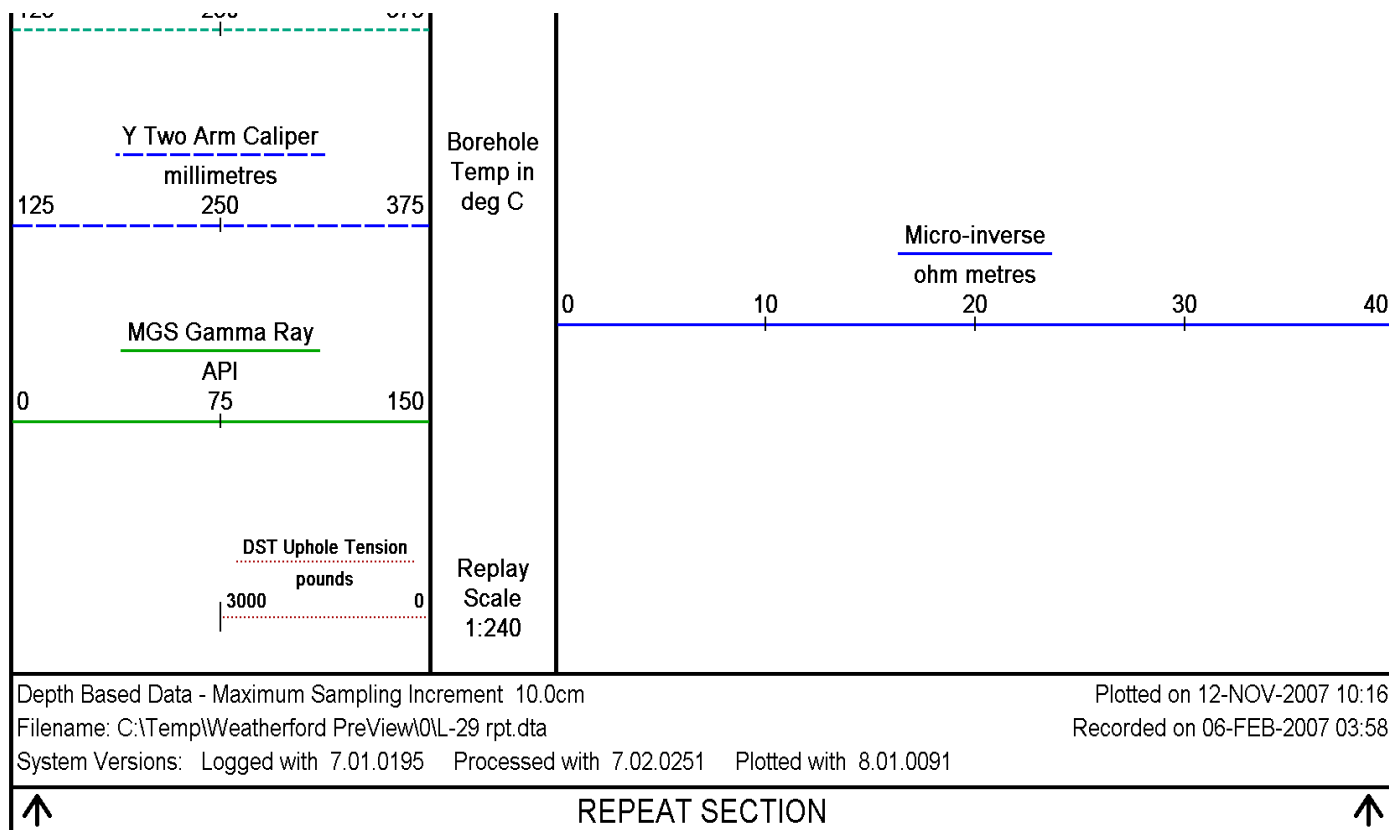
1510

1520

1523

Depth
in
Metres





BEFORE SURVEY CALIBRATION			C:\Temp\Weatherford PreView\0\L-29 rpt.dta
General Constants All 000		Last Edited on 6-FEB-2007,03:32	
General Parameters			
Mud Resistivity	0.690	ohm-metres	
Mud Resistivity Temperature	25.000	degrees C	
Water Level	0.000	metres	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and Differential Caliper Parameters			
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	Y Two Arm Caliper		
Annular Volume Diameter	139.700	mm	
Caliper for Differential Caliper	Density Caliper		
Rwa Parameters			
Porosity used	Base Density Porosity		
Resistivity used	Deep Induction		
RWA Constant A	0.610		
RWA Constant M	2.150		
Gamma Calibration MCG 159		Field Calibration on 5-FEB-2007,23:16	
	Measured	Calibrated (API)	
Background	50	34	
Calibrator (Gross)	1224	828	
Calibrator (Net)	1174	794	
Gamma Constants MCG 159		Last Edited on 6-FEB-2007,02:31	
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 MCG 159		
	Measured	Calibrated (mV)
Reference 1	99.9	99.5
Reference 2	-99.3	-99.5
Field Calibration on 25-JAN-2007 17:35		
High Resolution Temperature Calibration MCG 159		
	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	50.00	50.00
Field Calibration on 28-NOV-2006,15:40		
High Resolution Temperature Constants MCG 159		
Last Edited on 28-NOV-2006,15:40		
Pre-filter Length	11	
FE Calibration MFE 017		
Base Calibration on 25-JAN-2007 17:46		
Field Check on 1-FEB-2007 08:10		
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		
Last Edited on 29-JAN-2007,21:47		
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 on 25-JAN-2007,18:14		
Field Calibration on 6-FEB-2007,03:31		
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		
Field Calibration on 5-FEB-2007,23:15		
	Measured	Calibrated (API)
Background	48	31
Calibrator (Gross)	1256	825
Calibrator (Net)	1208	794
Gamma Constants MGS 010		
Last Edited on 6-FEB-2007,02:31		
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

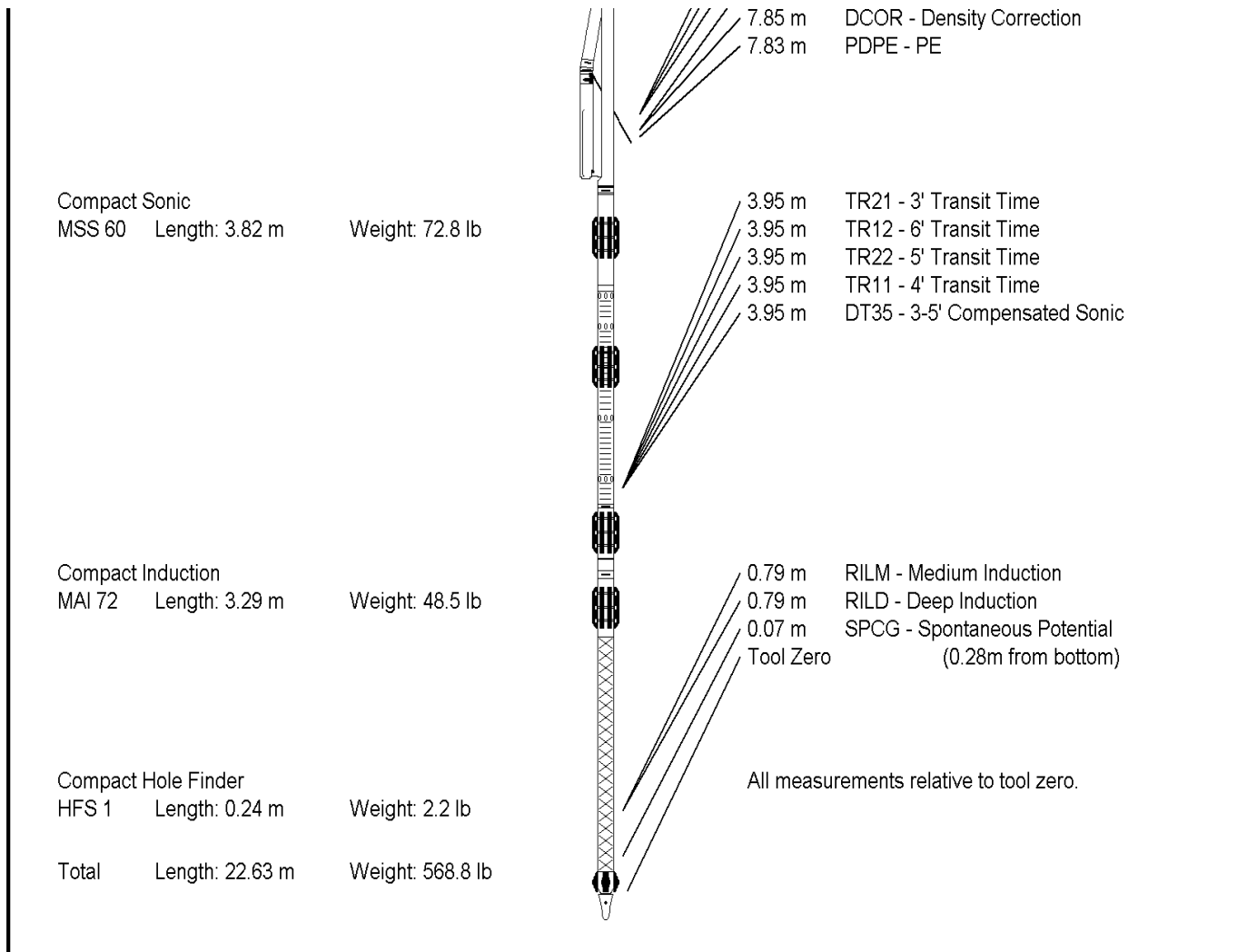
Full Waveform Parameters

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			
Semblance Window Width		N/A	micro-sec		
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)		

	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