



**Weatherford**

**Compact Imager Log 1:200**  
**Log not speed corrected**  
**Main Pass**

COMPANY IODP Expedition 347 Baltic Sea  
WELL BSB-9/Hole 63A  
FIELD Sweden  
PROVINCE/COUNTY Sweden  
COUNTRY/STATE Sweden  
LOCATION

Latitude 58 37.340 N  
Longitude 18 15.250 E  
Other Services  
Resistivity  
Compensated Sonic  
Spectral Gamma Ray

Permanent Datum M.S.L., Elevation 437.2 metres  
Log Measured From GL  
Drilling Measured From GL

Elevations:  
KB metres 440.00  
DF metres 440.00  
GL 0.00

Date	11-OCT-2013		
Run Number	3		
Service Order	50004126		
Depth Driller	115.00	metres	
Depth Logger	108.50	metres	
First Reading	108.50	metres	
Last Reading	18.65	metres	
Casing Driller	18.65	metres	
Casing Logger	18.65	metres	
Bit Size	8.500	inches	
Hole Fluid Type	Sea Water		
Density / Viscosity			
PH / Fluid Loss			
Sample Source			
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Source Rmf / Rmc			
Rm @ BHT			
Time Since Circulation	0.5 hrs		
Max Recorded Temp			
Equipment / Base	16104		
Recorded By	C.Sedlatschek		
Witnessed By	A.Fehr		

## REMARKS

1. Well Manager Version 13.07.1135 used.
2. All logs correlated to drill bit depth at 18.65m.
3. Depth Offset for Resistivity Log DO=+1.0m.
4. Depth Offset for Spectral Gamma Ray and Sonic Log DO=+1.0m.
5. No Depth Offset applied to Imager Log.
6. Imager Log not speed corrected.
7. Log recorded in High Resolution.

## BOREHOLE RECORD

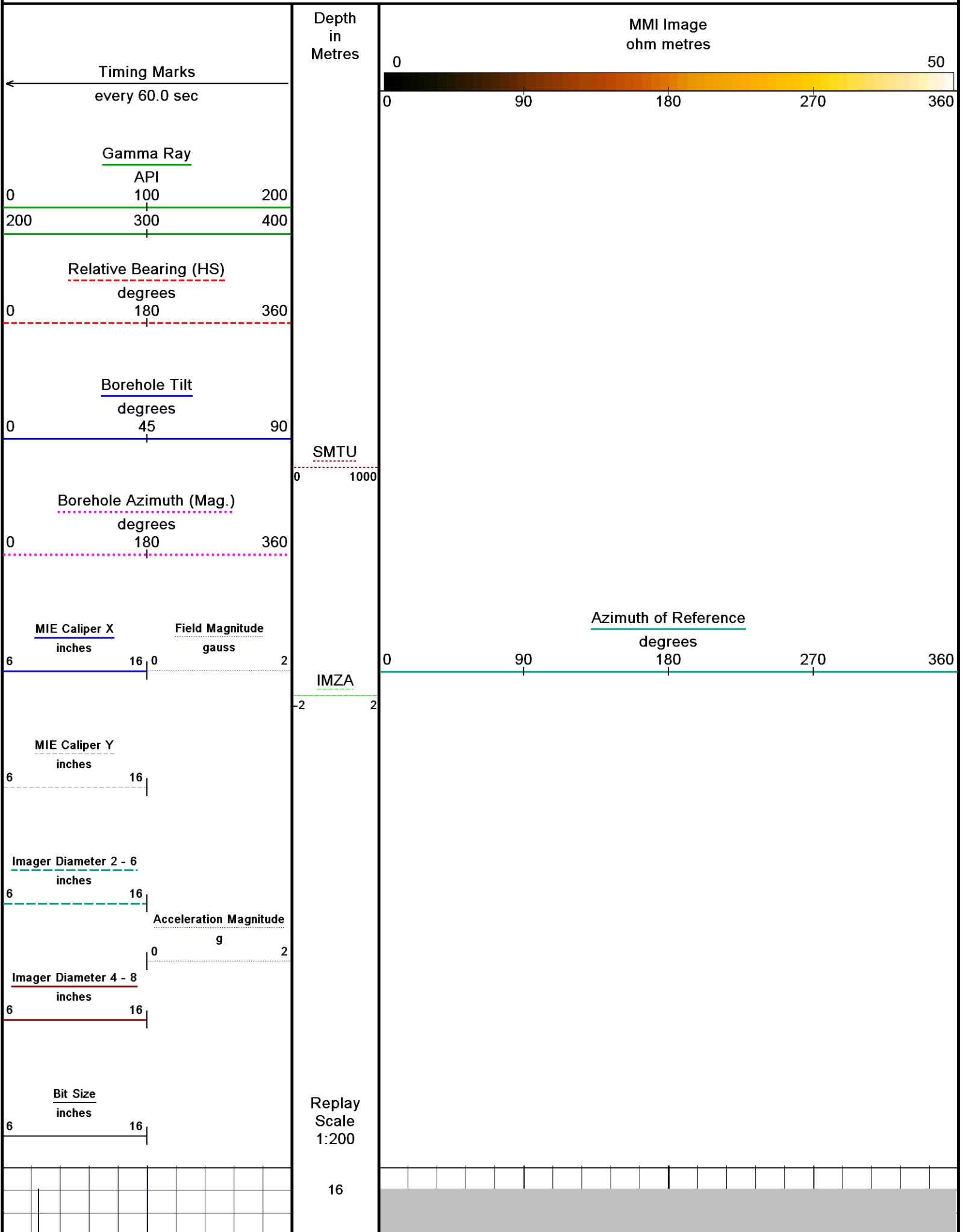
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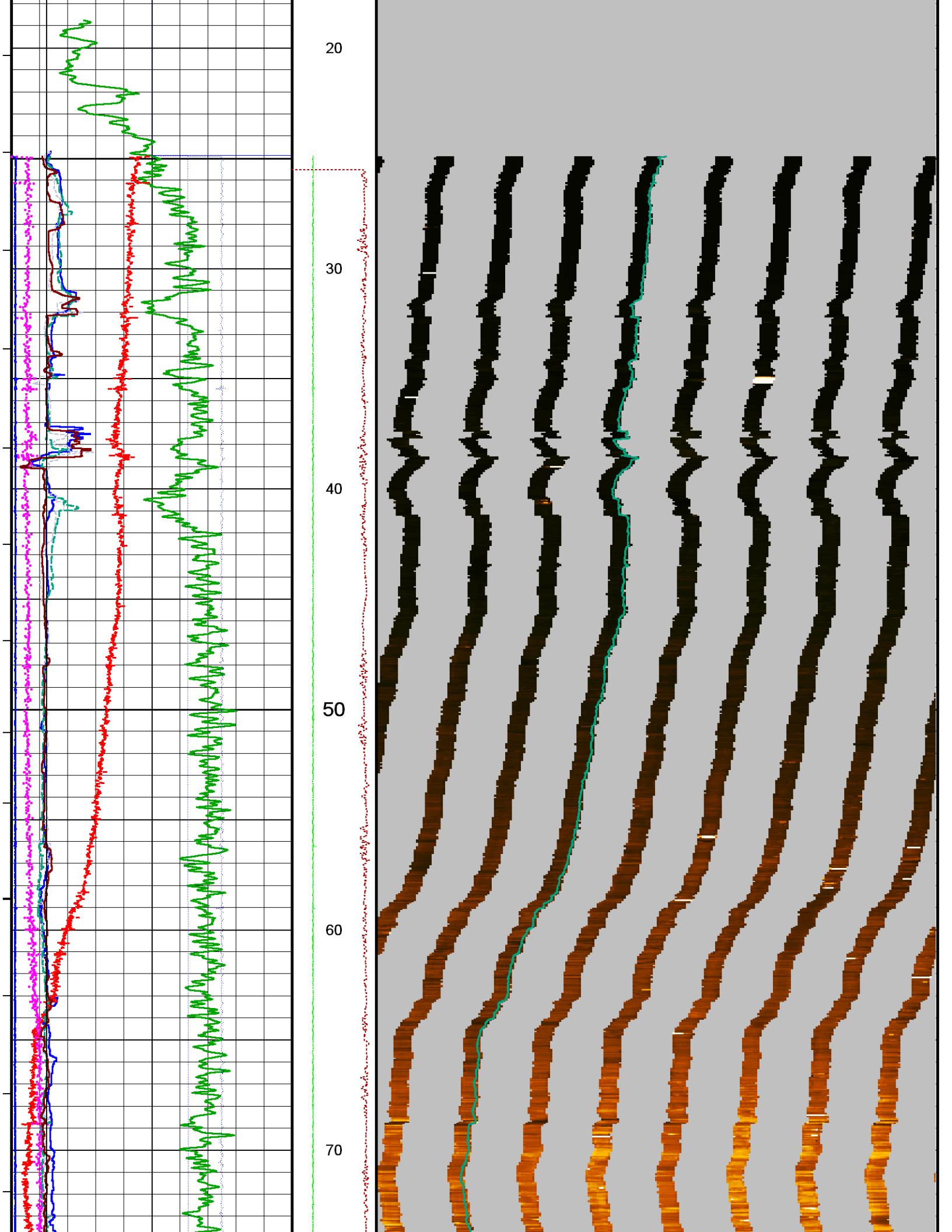
Bit Size inches	Depth From metres	Depth To metres
8.500	0.00	115.00

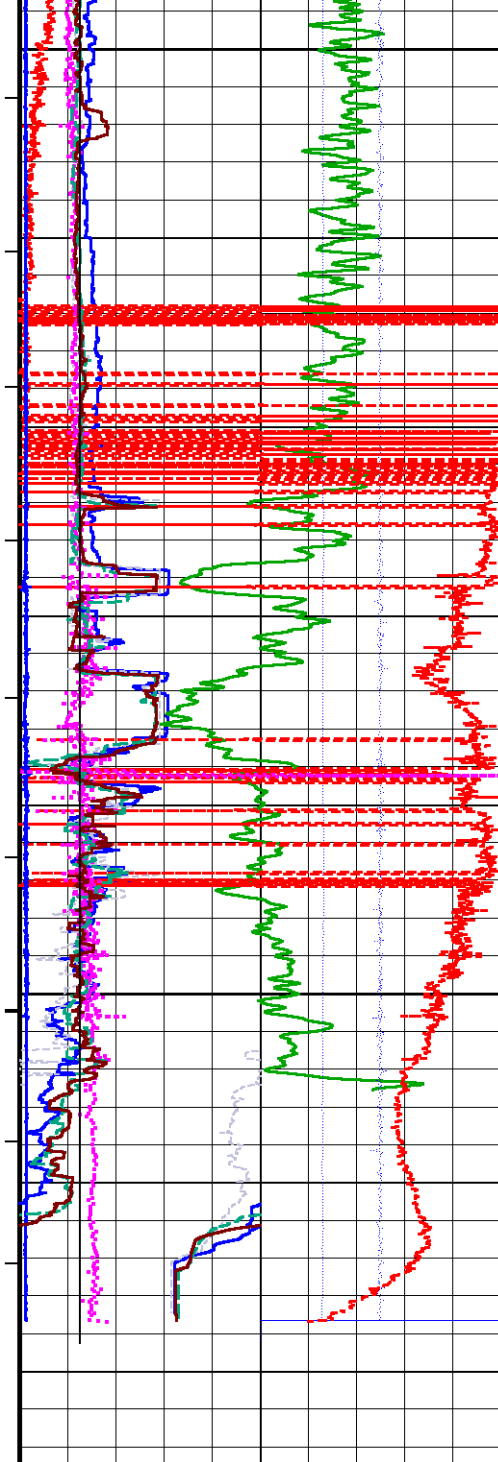
## CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
	5.500	0.00	18.65	23.00

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.

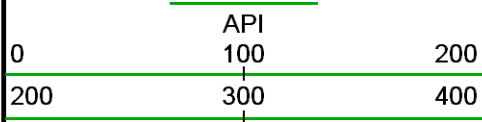




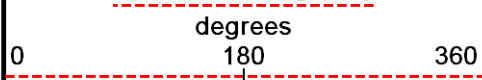


Timing Marks  
every 60.0 sec

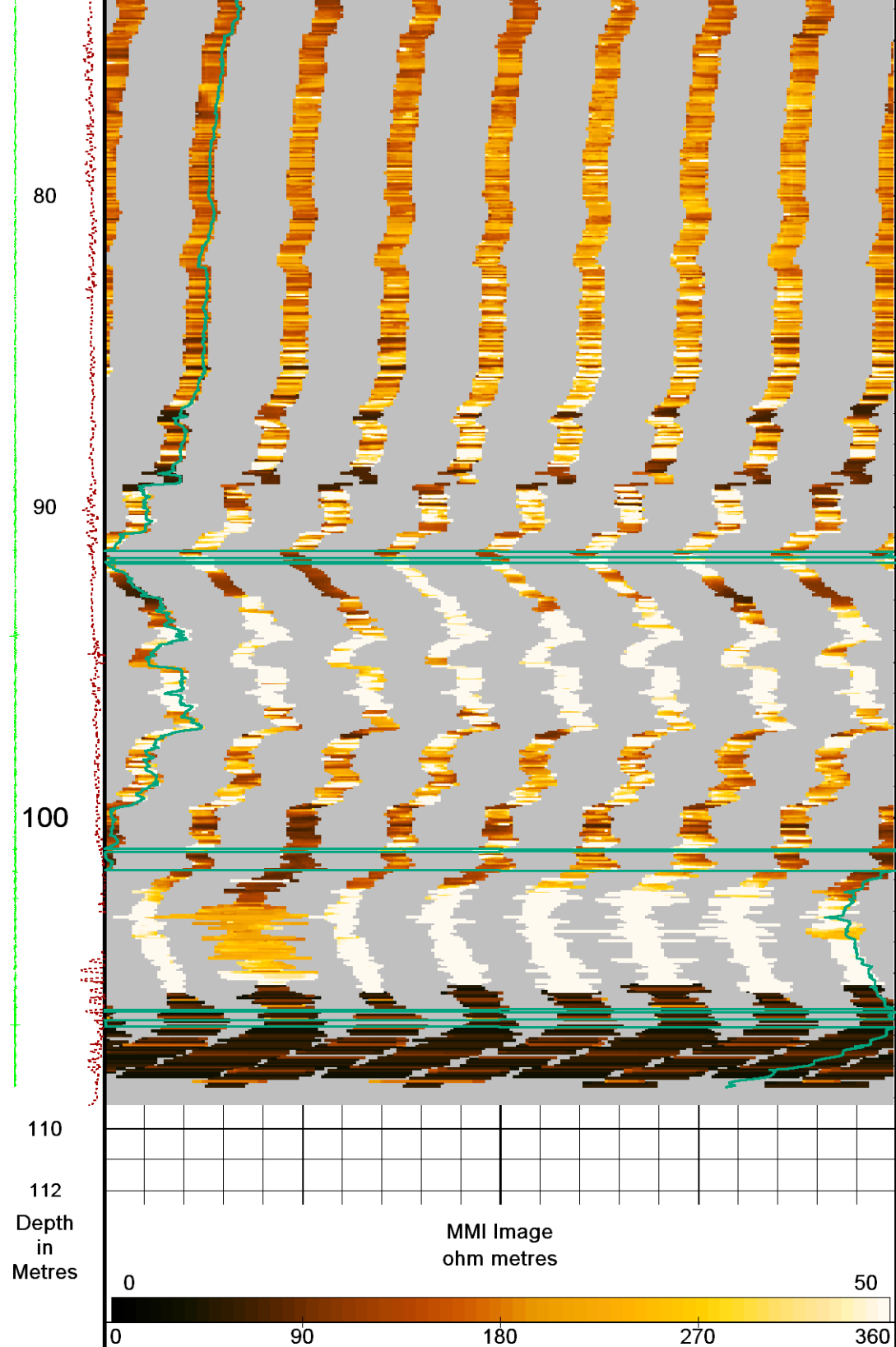
Gamma Ray

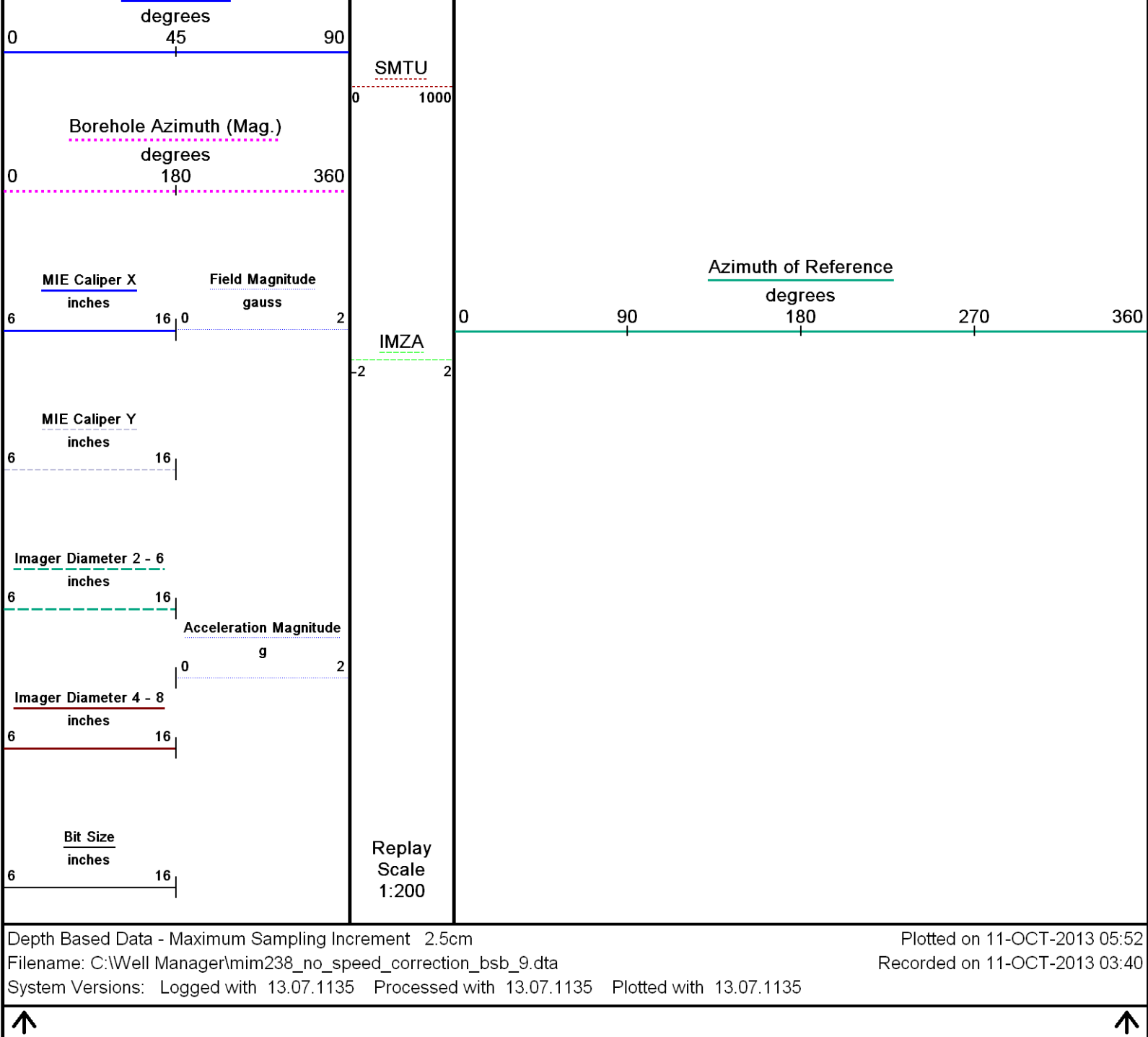


Relative Bearing (HS)



Borehole Tilt





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BEFORE SURVEY CALIBRATION

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General Constants All 000 Last Edited on 01-OCT-2013,00:16

General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Water Level	0.000	metres
Borehole Fluid Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Method	8 Arm CMI	
HVOL Caliper 1	N/A	
HVOL Caliper 2	N/A	
Annular Volume Diameter	7.000	inches
Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	N/A	
Permeability used	N/A	

Resistivity used	N/A
RWA Constant A	N/A
RWA Constant M	N/A
SW/APOR Tool Source	0.000

Gamma Calibration MCG-D.J 387			Field Calibration on 28-AUG-2013 14:21
	Measured	Calibrated (API)	
Background	176	122	
Calibrator (Gross)	1239	857	
Calibrator (Net)	1063	735	

Gamma Constants MCG-D.J 387			Last Edited on 12-SEP-2013,01:55
Gamma Calibrator Number	097		
Mud Density	1.00	gm/cc	
Caliper Source for Processing	Bit Size		
Tool Position	Eccentred		
Concentration of KCl		kppm	
K Mud Type	Chloride		
K Mud Concentration	0.00	%	

Caliper Calibration MIE-A.J 238				Base Calibration on 03-OCT-2013 04:34	
				Field Calibration on 03-OCT-2013 04:36	
Base Calibration					
Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)		
1	24622	25826	4.00		
2	34022	35207	5.97		
3	43043	44501	7.97		
4	51454	52355	9.86		
5	0	0	0.00		
Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	23421	23841	22974	23149	4.00
2	31275	31649	30872	31071	5.97
3	39765	39349	38804	40063	7.97
4	47752	46020	47292	50451	9.86
5	0	0	0	0	0.00
Field Calibration					
	Measured	Measured	Actual		
	Pads 1-5 Caliper(in)	Pads 3-7 Caliper(in)	Caliper(in)		
	8.09	8.01	7.97		
	Measured	Measured	Measured	Measured	Actual
	Pad 2 Caliper(in)	Pad 4 Caliper(in)	Pad 6 Caliper(in)	Pad 8 Caliper(in)	Caliper(in)
	3.96	4.01	4.02	3.94	7.97

Caliper Constants MIE-A.J 238			Last Edited on 04-SEP-2013,15:29
Caliper Difference for BRKT	0.120	inches	

Accelerometer Parameters MIE-A.J 238				
Date Of Last Accelerometer Calibration	8-DEC-2011,09:59			
	X Accelerometer	Y Accelerometer	Z Accelerometer	
Slope	-1.112831	-1.099829	-1.106838	
Offset	0.006602	-0.001700	0.007965	

Accelerometer Constants MIE-A.J 238			Last Edited on 08-SEP-2013,10:59		
Accelerometer Calibrator Number		000			
Accelerometer Temperature Characterisation					
X Accelerometer					
Serial Number		1043			
Calibration Date		25-Apr-2011			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	1.87896e-007	-2.20144e-008	2.14922e-010	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.71246e-004	1.73794e-007	1.63418e-009	
Y Accelerometer					
Serial Number		920			

Calibration Date	12-Nov-2010			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	8.60269e-006	-3.24354e-009	7.63473e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.62626e-004	3.93255e-007	6.99125e-010
Z Accelerometer				
Serial Number	1003			
Calibration Date	10-Feb-2011			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	1.42425e-005	-1.64266e-008	2.06911e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.69048e-004	2.49542e-007	7.48043e-010

Magnetometer Parameters MIE-A.J 238				
Date Of Last Magnetometer Calibration	17-OCT-2012,12:45			
	X Magnetometer	Y Magnetometer	Z Magnetometer	
Slope	-1.000000	-1.001595	-0.994746	
Offset	0.015422	-0.015061	0.005819	

Magnetometer Constants MIE-A.J 238	Last Edited on			
Magnetometer Calibrator Number	000			

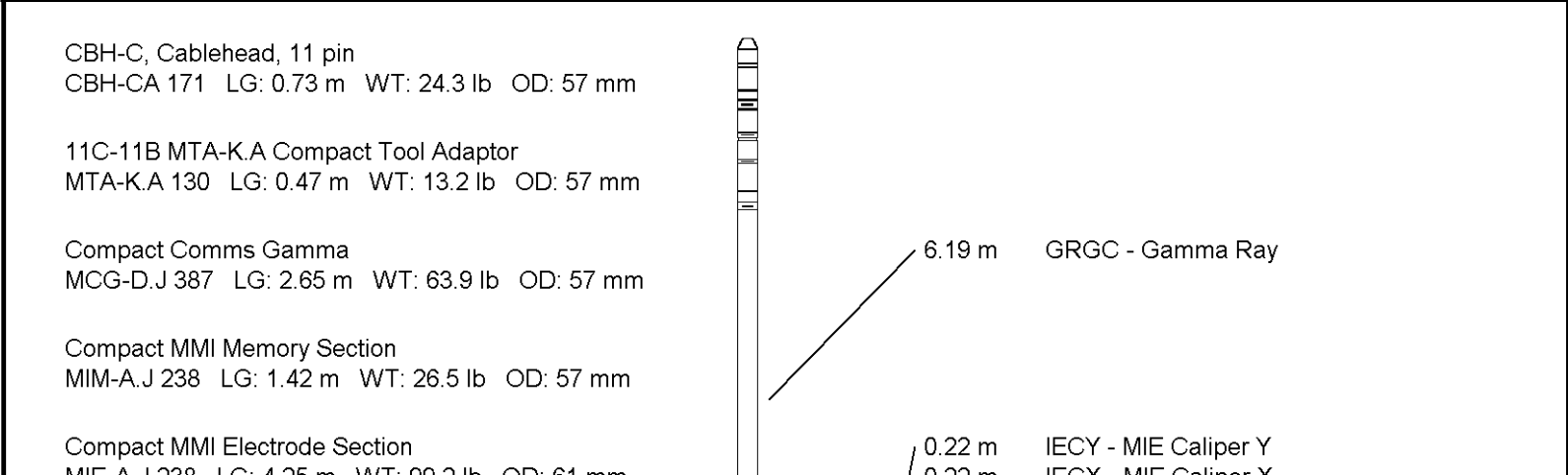
Navigation Constants MIE-A.J 238	Last Edited on 11-OCT-2013,00:42			
Magnetic Declination	5.20	degrees	East	

Imager Pad Check MIE-A.J 238	Field Check on			
Pad 1	Pad Not Tested	Pad 5	Pad Not Tested	
Pad 2	Pad Not Tested	Pad 6	Pad Not Tested	
Pad 3	Pad Not Tested	Pad 7	Pad Not Tested	
Pad 4	Pad Not Tested	Pad 8	Pad Not Tested	

Compact Micro Imager Constants MIE-A.J 238		Last Edited on 11-OCT-2013,00:42	
Sonde Configuration	Imager Mode		
Arm-Pad Kit	Slim Pads with KIE-CA (12.25 in)		
Arm-Pad Kit Serial Number			
Centre Pad 1 Rotational Offset	0.00	degrees	
Image/Borehole Ovality Reference	Azimuth of Pad 1		
Non Active Buttons	Omit		
Search Angle	0.00	degrees	
Correlation Interval	1.00	metres	
Correlation Step	0.50	metres	
Current Offset	0.0000	mAmp	
Squasher Start	0.0500	mAmp	
Image Processing	Enabled		

## DOWNHOLE EQUIPMENT

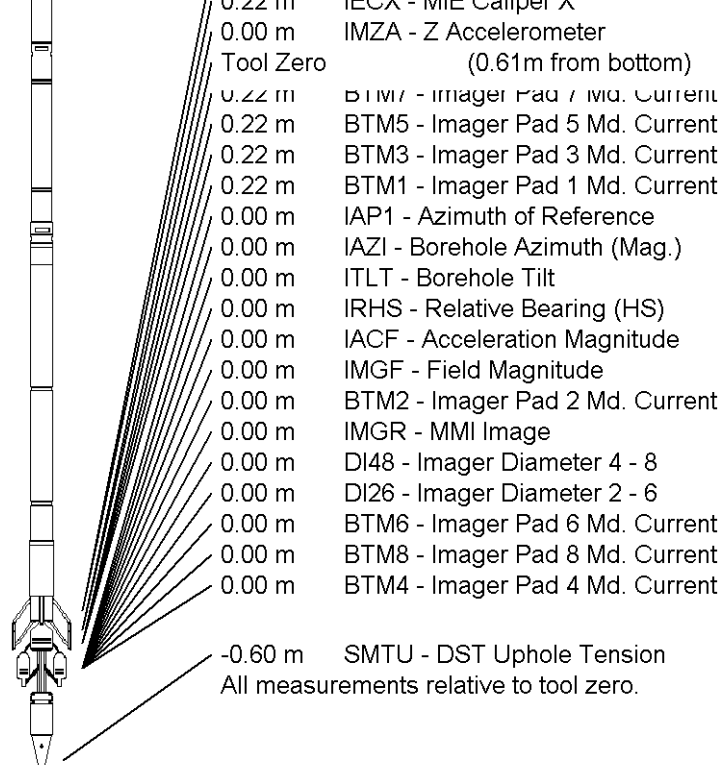
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MIE-A.0 238 LG: 4.23 m WT: 99.2 lb OD: 61 mm

Compact Pressure Bung  
HFS 2 LG: 0.04 m WT: 4.4 lb OD: 57 mm

Total Length: 9.56 m Weight: 231.5 lb



COMPANY	IODP Expedition 347 Baltic Sea
WELL	BSB-9/Hole 63A
FIELD	Sweden
PROVINCE/COUNTY	Sweden
COUNTRY/STATE	Sweden

Elevation Kelly Bushing	440.00	metres	First Reading	108.50	metres
Elevation Drill Floor	440.00	metres	Depth Driller	115.00	metres
Elevation Ground Level	0.00	metres	Depth Logger	108.50	metres



**Weatherford®**

Compact Imager Log 1:200

Log not speed corrected

Main Pass