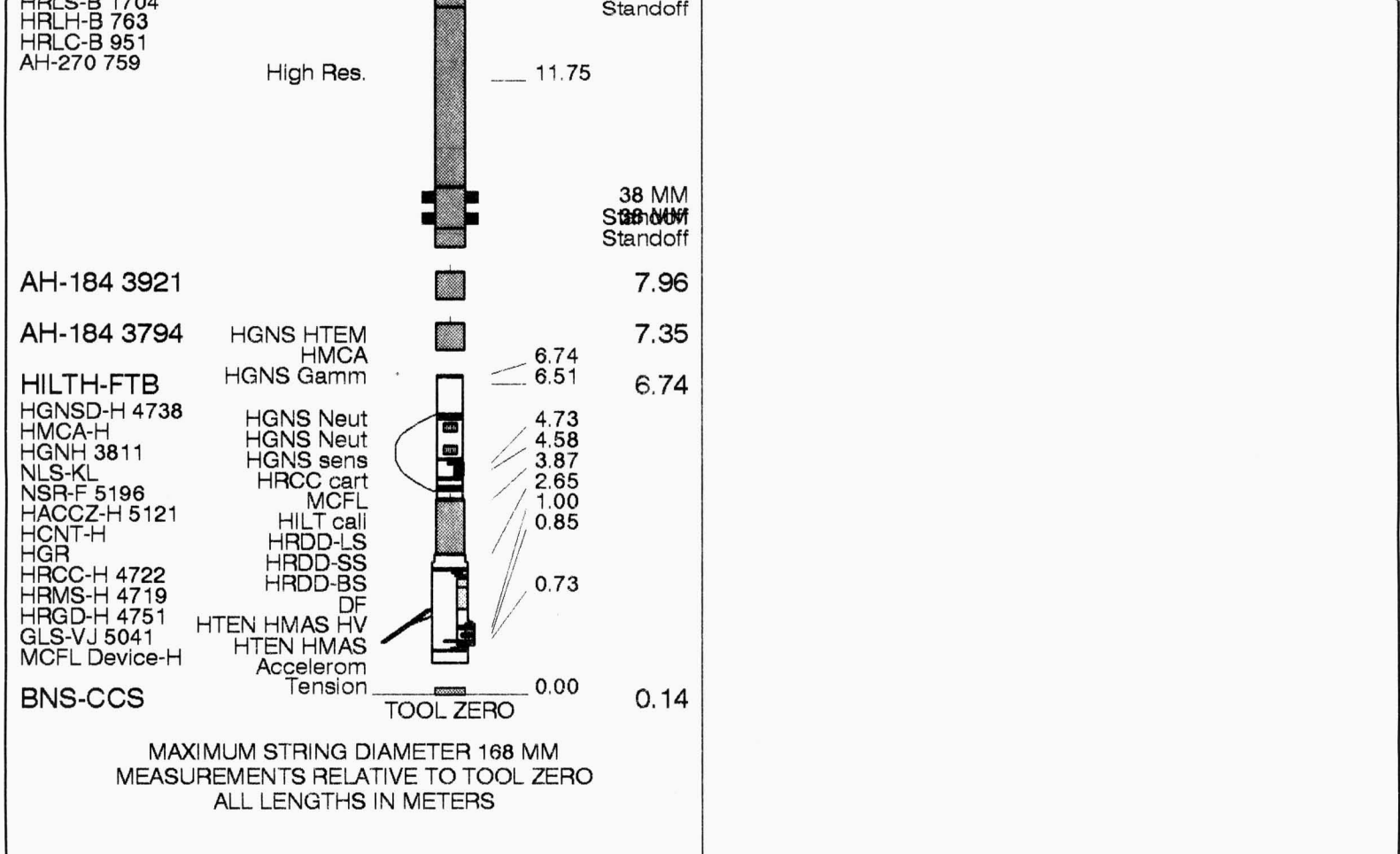


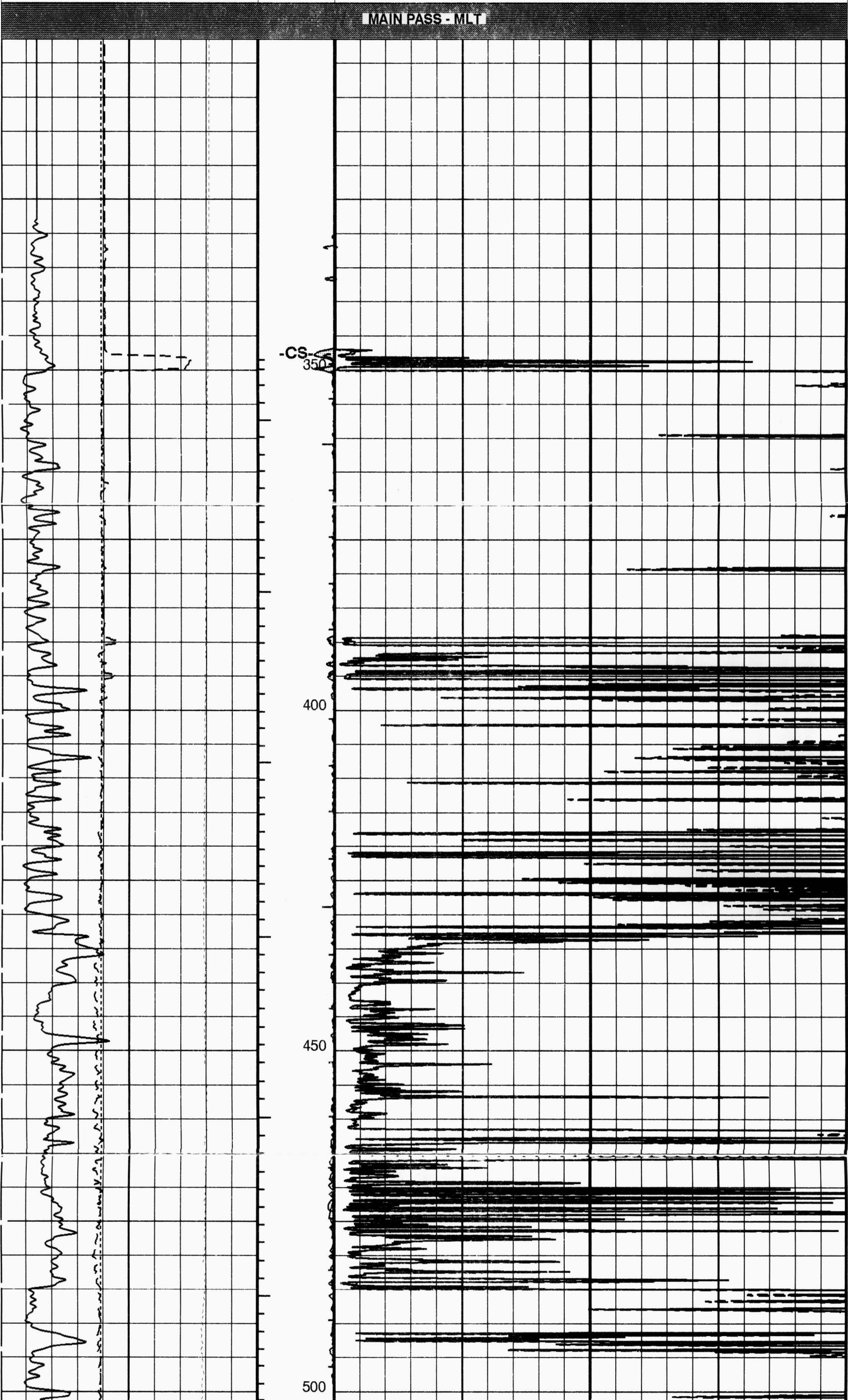


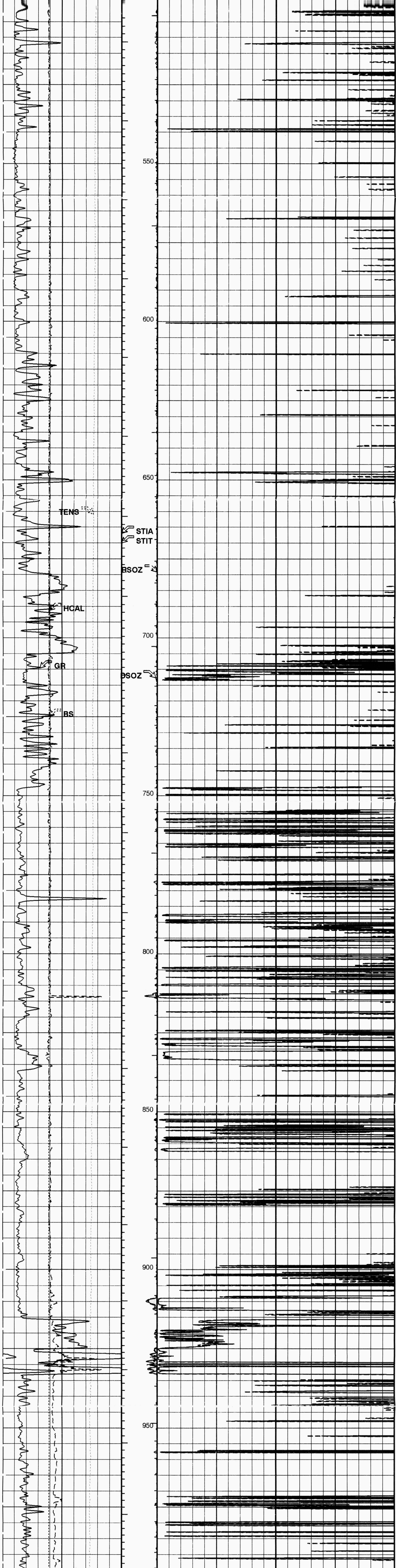
Input DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_011LUP	FN:17	PRODUCER	23-Feb-2008 16:24	1202.4 M	-13.7 M
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_013PUP	FN:21	PRODUCER	23-Feb-2008 18:53	1202.4 M	301.4 M
BACKUP	TLD_MCFL_CNL_HRLA_013PUP	FN:22	PRODUCER	23-Feb-2008 18:53	1202.4 M	301.4 M

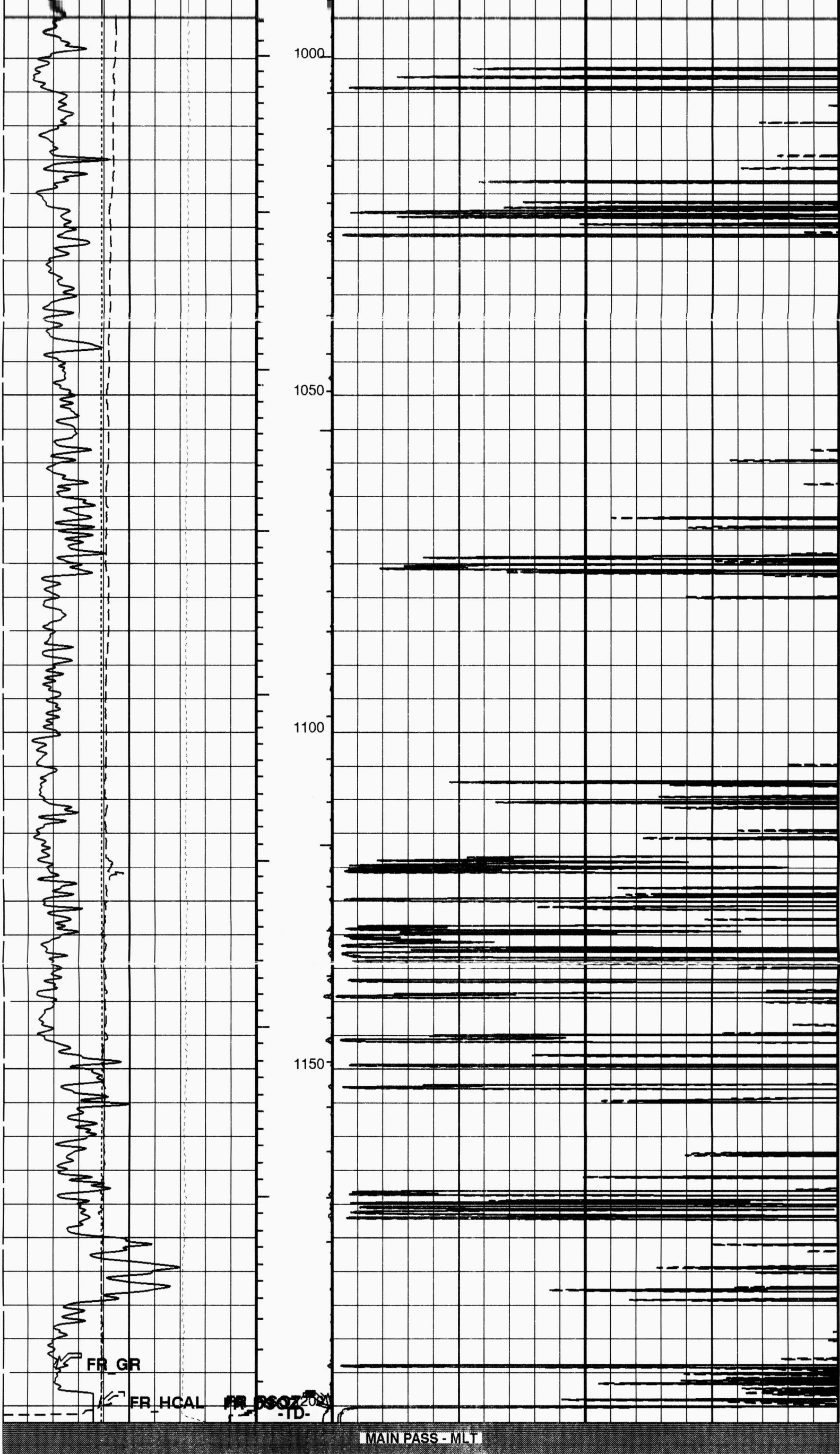
Integrated Hole/Cement Volume Summary	
Hole Volume =	34.44 M3
Cement Volume =	13.26 M3 (assuming 177.80 MM casing O.D.)
Computed from	1200.9 M to 348.1 M using data channel(s) HCAL HCAL2

OP System Version: 15C0-309			
MCM			
HILTH-FTB	SRPC-3402-Q3_2007	HRLT-B	15C0-309
HILTH2-FTB	SRPC-3402-Q3_2007	HNGC-B	SPC-3530-NUCL
HNGS-BA	SPC-3530-NUCL	DTC-H	15C0-309
SPA-A	9936		

PIP SUMMARY			
└ Integrated Hole Volume Minor Pip Every 0.1 M3			
└ Integrated Hole Volume Major Pip Every 1 M3			
└ Integrated Cement Volume Minor Pip Every 0.1 M3			
└ Integrated Cement Volume Major Pip Every 1 M3			
Time Mark Every 60 S			
Tension (TENS)		HMIN TO HMNO	
25000 (N)			
0			
HILT Caliper (HCAL)			
125 (MM)			
375			
Gamma Ray (GR)		Std. Res. Resistivity	
0 (GAPI)		Standard (RSOZ)	
150		50 (MM)	
		0	
		Computed Micro Normal (HMNO)	
		0 (OHMM)	
		40	
Bit Size (BS)		Std. Res. Density	
125 (MM)		Standoff (DSOZ)	
375		50 (MM)	
		0	
		Computed Micro Inverse (HMIN)	
		0 (OHMM)	
		40	







Bit Size (BS) (MM)		Std. Res. Density Standoff (DSOZ) 50 (MM)	Computed Micro Inverse (HMIN) (OHMM)	
125	375	0	0	40
Gamma Ray (GR) (GAPI)		Std. Res. Resistivity Standoff (HSCZ) 50 (MM)	Computed Micro Normal (HMNO) (OHMM)	
0	150	0	0	40
HILT Caliper (HCAL) (MM)		HMIN TO HMNO		
125	375			
Tension (TENS) 25000 (N)		0		

PIP SUMMARY				
└ Integrated Hole Volume Minor Pip Every 0.1 M3				
└ Integrated Hole Volume Major Pip Every 1 M3				
└ Integrated Cement Volume Minor Pip Every 0.1 M3				
└ Integrated Cement Volume Major Pip Every 1 M3				
Time Mark Every 60 S				

Parameters		
DLIS Name	Description	Value
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHFL_TLD	HILT Nuclear Mud Base	WATER
DHC	Density Hole Correction	BS
GCLF	Germany Coal-like Formation Option	NO
MPOF	MCFL Processing Operation Mode	ON
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM	HRDD Processing Mode	HiRes
NSAR	HRDD Depth Sampling Rate	25.4 MM
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2		
BHFL_TLD	HILT Nuclear Mud Base	WATER
DHC	Density Hole Correction	BS
NMT	HILT Nuclear Mud Type	NOBARITE
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0 M
TIMD	Along-hole depth of Tie-in Point	348 M
TIVD	TVD of Tie-in Point	348 M
HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	177.8 MM
HVCS	Integrated Hole Volume Caliper Selection	HCAL/HCAL2
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL
STKT	STI Stuck Threshold	1.524 M
TDD	Total Depth - Driller	1200.00 M
TDL	Total Depth - Logger	1201.00 M
System and Miscellaneous		
BS	Bit Size	222.000 MM
DFD	Drilling Fluid Density	1180.00 K/M3
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE
TD	Total Depth	1201 M

Format: PEX-MLT-S2		Vertical Scale: 1:600	Graphics File Created: 23-Feb-2008 18:53	
OP System Version: 15C0-309				
MCM				
HILTH-FTB	SRPC-3402-Q3_2007	HRLT-B	15C0-309	
HILTH2-FTB	SRPC-3402-Q3_2007	HNGC-B	SPC-3530-NUCL	
HNGS-BA	SPC-3530-NUCL	DTC-H	15C0-309	
SPA-A	9936			

Input DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_011LUP	FN:17	PRODUCER	23-Feb-2008 16:24	1202.4 M	-13.7 M
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_013PUP	FN:21	PRODUCER	23-Feb-2008 18:53		
BACKUP	TLD_MCFL_CNL_HRLA_013PUP	FN:22	PRODUCER	23-Feb-2008 18:53		

Input DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_011LUP	FN:17	PRODUCER	23-Feb-2008 16:24	1202.4 M	-13.7 M
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_HRLA_013PUP	FN:21	PRODUCER	23-Feb-2008 18:53	1202.4 M	301.4 M
BACKUP	TLD_MCFL_CNL_HRLA_013PUP	FN:22	PRODUCER	23-Feb-2008 18:53	1202.4 M	301.4 M

Integrated Hole/Cement Volume Summary	
Hole Volume = 34.44 M3	
Cement Volume = 13.26 M3 (assuming 177.80 MM casing O.D.)	
Computed from 1200.9 M to 348.1 M using data channel(s) HCAL HCAL2	

OP System Version: 15C0-309				
MCM				
HILTH-FTB	SRPC-3402-Q3_2007	HRLT-B	15C0-309	
HILTH2-FTB	SRPC-3402-Q3_2007	HNGC-B	SPC-3530-NUCL	
HNGS-BA	SPC-3530-NUCL	DTC-H	15C0-309	
SPA-A	9936			

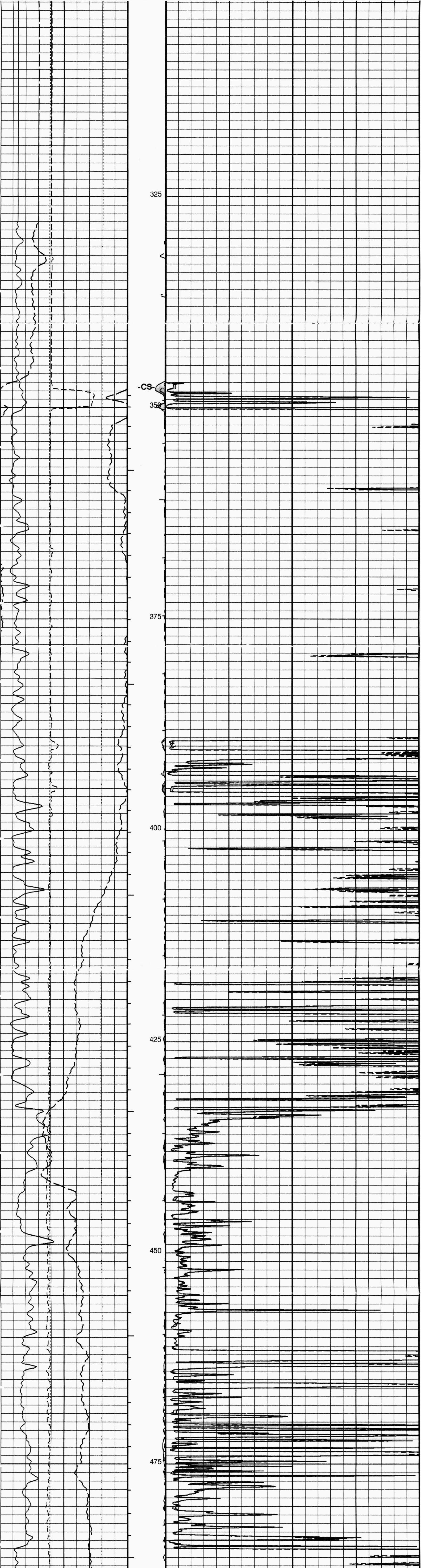
PIP SUMMARY				
└ Integrated Hole Volume Minor Pip Every 0.1 M3				
└ Integrated Hole Volume Major Pip Every 1 M3				
└ Integrated Cement Volume Minor Pip Every 0.1 M3				
└ Integrated Cement Volume Major Pip Every 1 M3				
Time Mark Every 60 S				

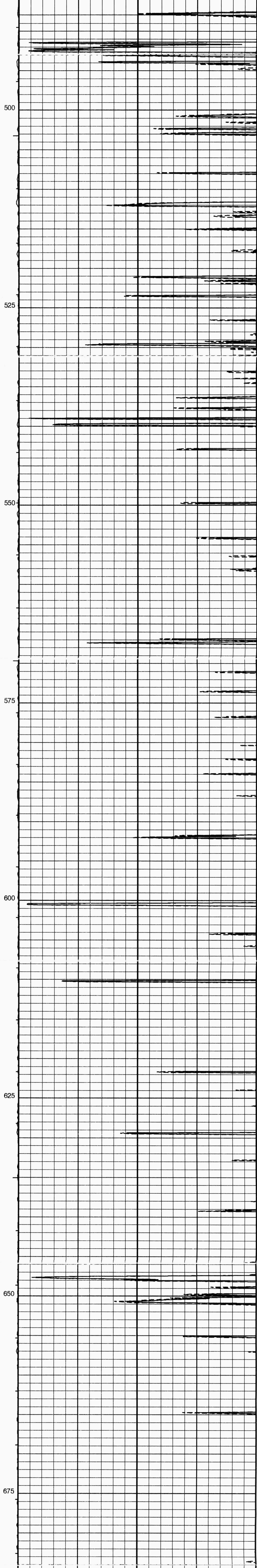
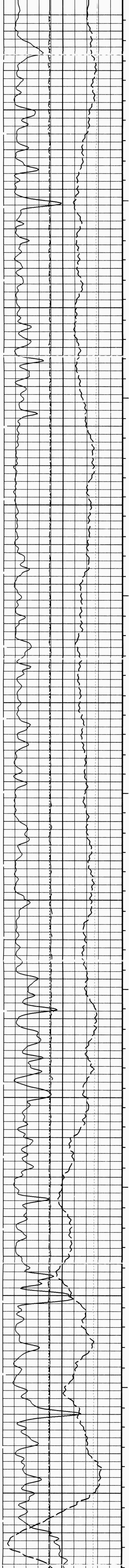
Tension (TENS) 25000 (N)		0		
SP (SP) (MV)		-80	20	
HILT Caliper (HCAL) (MM)		125	375	

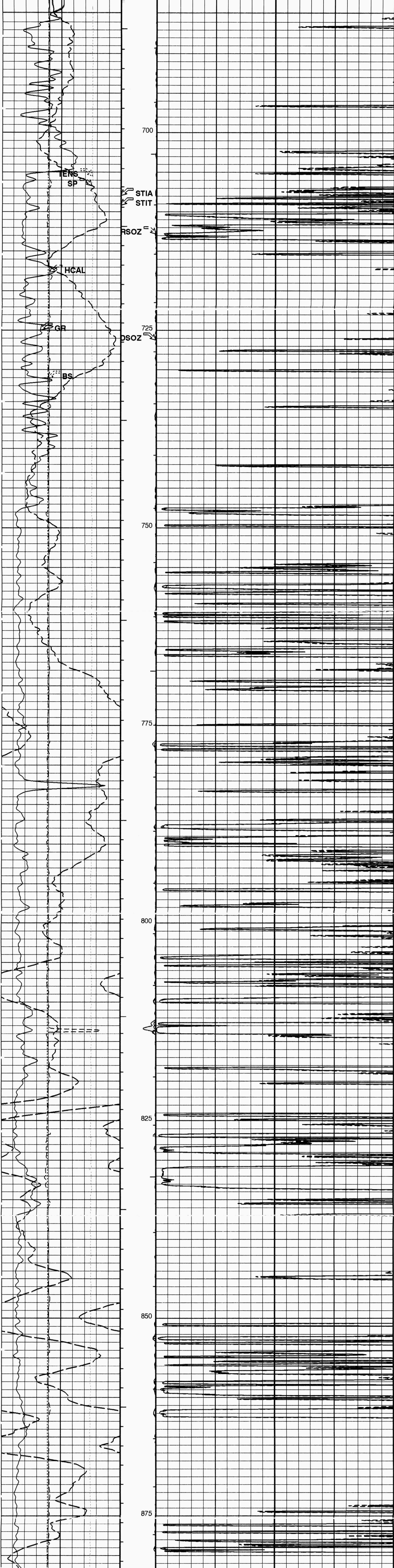
Gamma Ray (GR)		Std. Res. Resistivity	Computed Micro Normal (HMNO)	
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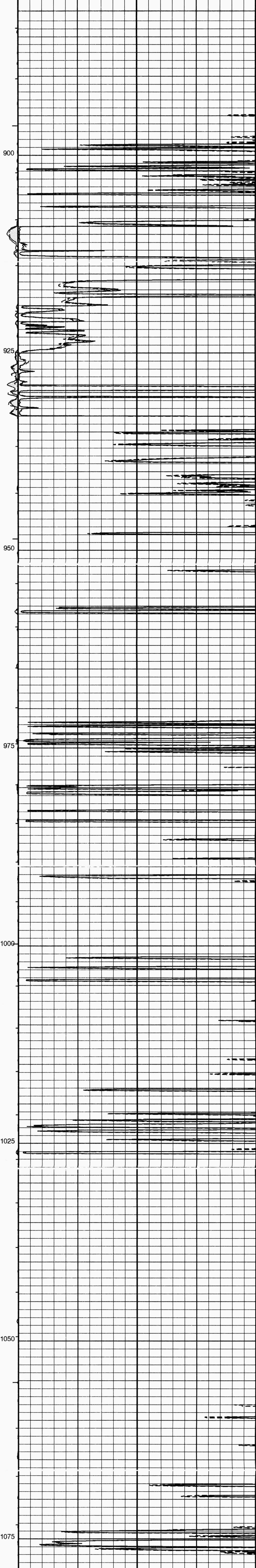
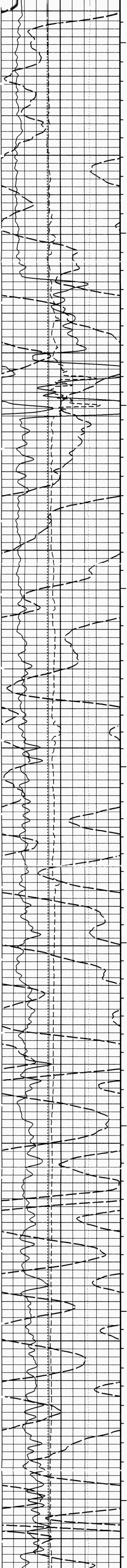
Gamma Ray (GR)		Standoff (RSOZ)		Computed Micro Normal (HMIN)	
(GAPI)		(MM)		(OHMM)	
0	150	0	0	0	40
Bit Size (BS)		Std. Res. Density Standoff (DSOZ)		Computed Micro Inverse (HMIN)	
(MM)		(MM)		(OHMM)	
125	375	0	0	0	40
		50 (MM)			

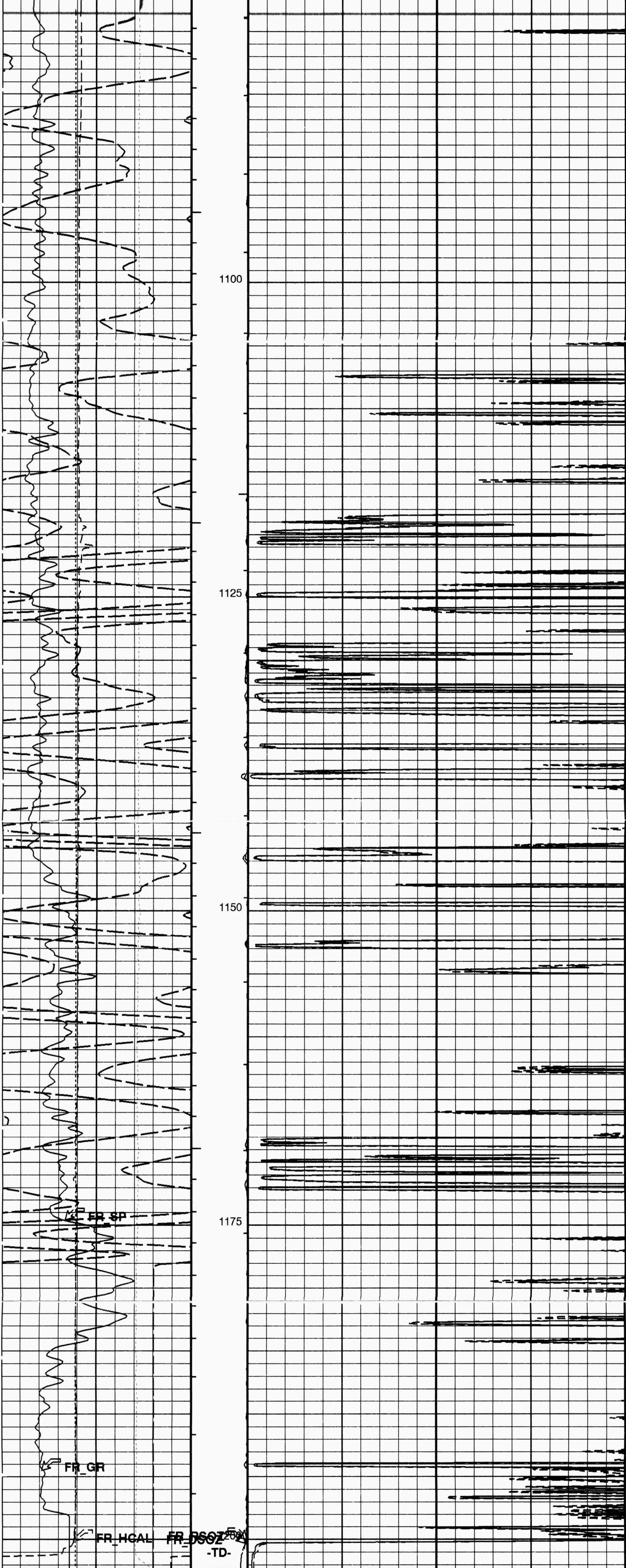
MAIN PASS - MLT











MAIN PASS - MLT			
Bit Size (BS) (MM)		Std. Res. Density Standoff (DSOZ) 50 (MM)	Computed Micro Inverse (HMIN) (OHMM)
125	375	0	40
Gamma Ray (GR) (GAPI)		Std. Res. Resistivity Standoff (RSOZ) 50 (MM)	Computed Micro Normal (HMNO) (OHMM)
0	150	0	40
HILT Caliper (HCAL) (MM)			HMIN TO HMNO
125	375		
SP (SP) (MV)			
-80	20		
Tension (TENS) 25000 (N)		0	

PIP SUMMARY	
└	Integrated Hole Volume Minor Pip Every 0.1 M3
└	Integrated Hole Volume Major Pip Every 1 M3
└	Integrated Cement Volume Minor Pip Every 0.1 M3
└	Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHFL_TLD	HILT Nuclear Mud Base	WATER
DHC	Density Hole Correction	BS
GCLF	Germany Coal-like Formation Option	NO
MPOF	MCFL Processing Operation Mode	ON
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM	HRDD Processing Mode	HiRes
NSAR	HRDD Depth Sampling Rate	25.4 MM
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2		
BHFL_TLD	HILT Nuclear Mud Base	WATER
DHC	Density Hole Correction	BS
NMT	HILT Nuclear Mud Type	NOBARITE
SPNV	SPA-A 9936: SP ADAPTOR	
	SP Next Value	0 MV
DIR	Directional Survey Computation	
SPVD	TVD of Starting Point	0 M
TMD	Along-hole depth of Tie-in Point	348 M
TVD	TVD of Tie-in Point	348 M
FCD	HOLEV: Integrated Hole/Cement Volume	
HVCS	Future Casing (Outer) Diameter	177.8 MM
	Integrated Hole Volume Caliper Selection	HCAL/HCAL2
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL
STKT	STI Stuck Threshold	1.524 M
TDD	Total Depth - Driller	1200.00 M
TDL	Total Depth - Logger	1201.00 M
System and Miscellaneous		
BS	Bit Size	222.000 MM
DFD	Drilling Fluid Density	1180.00 K/M3
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE
TD	Total Depth	1201 M

Format: PEX-MLT-S5 Vertical Scale: 1:240 Graphics File Created: 23-Feb-2008 18:53

OP System Version: 15C0-309			
MCM			
HILTH-FTB	SRPC-3402-Q3_2007	HRLT-B	15C0-309
HILTH2-FTB	SRPC-3402-Q3_2007	HNGC-B	SPC-3530-NUCL
HNGS-BA	SPC-3530-NUCL	DTC-H	15C0-309
SPA-A	9936		

Input DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_011LUP	FN:17	PRODUCER	23-Feb-2008 16:24	1202.4 M -13.7 M

Output DLIS Files					
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Output DLIS Files

DEFAULT	TLD_MCFL_CNL_HRLA_013PUP	FN:21	PRODUCER	23-Feb-2008 18:53
BACKUP	TLD_MCFL_CNL_HRLA_013PUP	FN:22	PRODUCER	23-Feb-2008 18:53

Input DLIS Files

DEFAULT	TLD_MCFL_CNL_HRLA_008LUP	FN:11	PRODUCER	23-Feb-2008 16:06	1204.7 M	1095.1 M
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Output DLIS Files

DEFAULT	TLD_MCFL_CNL_HRLA_012PUP	FN:19	PRODUCER	23-Feb-2008 18:38	1205.5 M	1074.1 M
BACKUP	TLD_MCFL_CNL_HRLA_012PUP	FN:20	PRODUCER	23-Feb-2008 18:38	1205.5 M	1074.1 M

Integrated Hole/Cement Volume Summary

Hole Volume = 2.96 M3
Cement Volume = 0.47 M3 (assuming 177.80 MM casing O.D.)
Computed from 1200.9 M to 1100.6 M using data channel(s) HCA1 HCA1 2

OP System Version: 15C0-309

MCM

HILTH-FTB	SRPC-3402-Q3_2007	HRLT-B	15C0-309
HILTH2-FTB	SRPC-3402-Q3_2007	HNGC-B	SPC-3530-NUCL
HNGS-BA	SPC-3530-NUCL	DTC-H	15C0-309
SPA-A	9936		

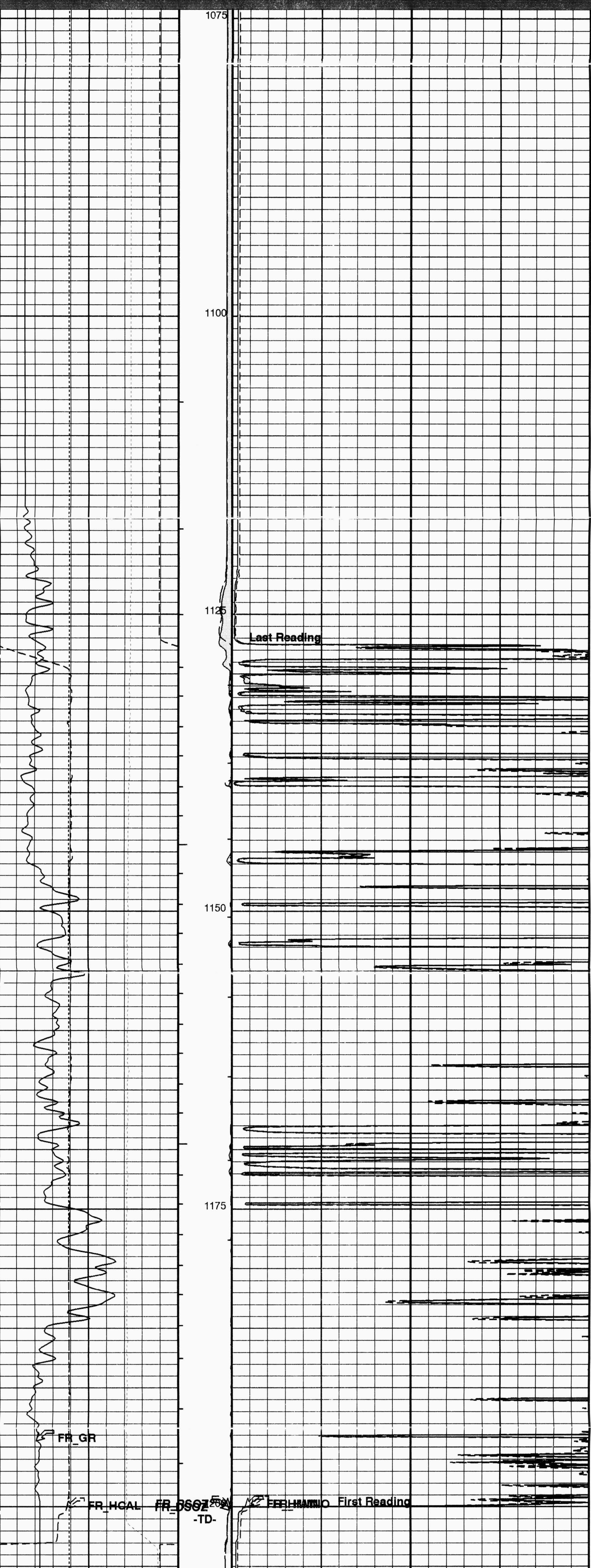
PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Tension (TENS) 25000 (N) 0			
HILT Caliper (HCAL) (MM) 125 375		HMIN TO HMNO	
Gamma Ray (GR) (GAPI) 0 150		Computed Micro Normal (HMNO) (OHMM) 0 40	
Std. Res. Resistivity Standoff (RSOZ) 50 (MM) 0			
Bit Size (BS) (MM) 125 375		Computed Micro Inverse (HMIN) (OHMM) 0 40	
Std. Res. Density Standoff (DSOZ) 50 (MM) 0			

REPEAT SECTION - MLT



REPEAT SECTION - MLT

Bit Size (BS) (MM) 125 375		Computed Micro Inverse (HMIN) (OHMM) 0 40	
Std. Res. Density Standoff (DSOZ) 50 (MM) 0			
Gamma Ray (GR) (GAPI) 0 150		Computed Micro Normal (HMNO) (OHMM) 0 40	
Std. Res. Resistivity Standoff (RSOZ) 50 (MM) 0			

W (MM)

HILT Caliper (HCAL)		HMIN TO HMNO	
125	(MM)	375	
Tension (TENS)			
25000	(N)	0	
PIP SUMMARY			
└ Integrated Hole Volume Minor Pip Every 0.1 M3			
└ Integrated Hole Volume Major Pip Every 1 M3			
└ Integrated Cement Volume Minor Pip Every 0.1 M3			
└ Integrated Cement Volume Major Pip Every 1 M3			
Time Mark Every 60 S			
Parameters			
DLIS Name	Description	Value	
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL_TLD	HILT Nuclear Mud Base	WATER	
DHC	Density Hole Correction	BS	
GCLF	Germany Coal-like Formation Option	NO	
MPOF	MCFL Processing Operation Mode	ON	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	25.4	MM
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2			
BHFL_TLD	HILT Nuclear Mud Base	WATER	
DHC	Density Hole Correction	BS	
NMT	HILT Nuclear Mud Type	NOBARITE	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	348	M
TIVD	TVD of Tie-in Point	348	M
HOLEV: Integrated Hole/Cement Volume			
FCD	Future Casing (Outer) Diameter	177.8	MM
HVCS	Integrated Hole Volume Caliper Selection	HCAL/HCAL2	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	1.524	M
TDD	Total Depth - Driller	1200.00	M
TDL	Total Depth - Logger	1201.00	M
System and Miscellaneous			
BS	Bit Size	222.000	MM
DFD	Drilling Fluid Density	1180.00	K/M3
DO	Depth Offset for Playback	0.7	M
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	1201	M
Format: PEX-MLT-S5-REPEAT		Vertical Scale: 1:240	Graphics File Created: 23-Feb-2008 18:38
OP System Version: 15C0-309			
MCM			
HILTH-FTB	SRPC-3402-Q3_2007	HRLT-B	15C0-309
HILTH2-FTB	SRPC-3402-Q3_2007	HNGC-B	SPC-3530-NUCL
HNGS-BA	SPC-3530-NUCL	DTC-H	15C0-309
SPA-A	9936		
Input DLIS Files			
DEFAULT	TLD_MCFL_CNL_HRLA_008LUP	FN:11	PRODUCER 23-Feb-2008 16:06 1204.7 M 1095.1 M
Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_HRLA_012PUP	FN:19	PRODUCER 23-Feb-2008 18:38
BACKUP	TLD_MCFL_CNL_HRLA_012PUP	FN:20	PRODUCER 23-Feb-2008 18:38

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Stab Measurement Summary							
Before: 22-Feb-2008 10:39							
BS Window Ratio	0.7422	N/A	0.7431	N/A	N/A	N/A	CPS
BS Window Sum	29980	N/A	30020	N/A	N/A	N/A	
SS Window Ratio	0.4886	N/A	0.4888	N/A	N/A	N/A	
SS Window Sum	12830	N/A	12820	N/A	N/A	N/A	CPS
LS Window Ratio	0.2997	N/A	0.2984	N/A	N/A	N/A	CPS
LS Window Sum	1524	N/A	1522	N/A	N/A	N/A	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations							
Before: 22-Feb-2008 10:39							
BS PM High Voltage (Command)	1366	N/A	1359	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1294	N/A	1303	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1244	N/A	1249	N/A	N/A	N/A	V
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Crystal Quality Resolutions Calibration							
Before: 22-Feb-2008 10:39							
BS Crystal Resolution	10.62	N/A	10.61	N/A	N/A	N/A	%
SS Crystal Resolution	9.106	N/A	9.391	N/A	N/A	N/A	%
LS Crystal Resolution	8.132	N/A	8.035	N/A	N/A	N/A	%
High resolution Integrated Logging Tool-DTS Wellsite Calibration - MCFL Calibration							
Before: 22-Feb-2008 10:34							
Raw B0 Resistivity	3875	N/A	3882	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3836	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3837	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - HILT Caliper Calibration							
Before: 22-Feb-2008 10:32							
HILT Caliper Zero Measurement	200.0	N/A	184.6	N/A	N/A	N/A	MM
HILT Caliper Plus Measurement	306.0	N/A	303.3	N/A	N/A	N/A	MM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration							
Before: 22-Feb-2008 13:39							
Gamma Ray Background	30.00	N/A	10.57	N/A	N/A	N/A	GAPI
Gamma Ray (Jig - Bkg)	180.7	N/A	180.7	N/A	N/A	16.43	GAPI
Gamma Ray (Calibrated)	162.0	N/A	162.0	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Zero Measurement							
Master: 15-Jan-2008 15:00 Before: 22-Feb-2008 13:32							
CNTC Background	26.64	26.64	26.88	N/A	N/A	3.996	CPS
CFTC Background	26.42	26.42	27.40	N/A	N/A	3.963	CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Ratio Measurement							
Master: 15-Jan-2008 15:00							
Thermal Near Corr. (Tank)	5800	6123	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2592	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.362	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Accelerometer Calibration							
Before: 23-Feb-2008 14:50							
Z-Axis Acceleration	9.810	N/A	9.811	N/A	N/A	N/A	M/S2
High resolution Integrated Logging Tool-DTS Master Calibration - Inversion results							
Master: 15-Feb-2008 14:33							
Rho Aluminum	2596	2598	--	--	--	--	K/M3
Rho Magnesium	1686	1687	--	--	--	--	K/M3
Pe Aluminum	2.570	2.555	--	--	--	--	
Pe Magnesium	2.650	2.616	--	--	--	--	
High resolution Integrated Logging Tool-DTS Master Calibration - Deviation Summary							
Master: 15-Feb-2008 14:33							
BS Average Deviation	0	0.4449	--	--	--	--	%
BS Max Deviation	0	1.303	--	--	--	--	%
SS Average Deviation	0	0.2374	--	--	--	--	%
SS Max Deviation	0	0.6135	--	--	--	--	%
LS Average Deviation	0	0.6376	--	--	--	--	%
LS Max Deviation	0	1.442	--	--	--	--	%
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 23-Feb-2008 14:50							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-321.1	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-368.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-338.6	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-357.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-324.0	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-327.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	-359.4	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 7	0	N/A	-322.7	N/A	N/A	9.681	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M12							
Before: 23-Feb-2008 14:50							
HRLT M1-M2 Voltage Plus - 0	0	N/A	1765	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	2019	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1851	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1846	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1777	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1800	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1976	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 7	0	N/A	1781	N/A	N/A	53.42	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M23							
Before: 23-Feb-2008 14:50							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1749	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	2018	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1851	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1849	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1772	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1795	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1963	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 7	0	N/A	1781	N/A	N/A	53.42	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT V34							
Before: 23-Feb-2008 14:50							
HRLT A3-A4 Voltage Plus - 0	0	N/A	68930	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	79220	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	72960	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	73170	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	70140	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	71070	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-75920	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45							
Before: 23-Feb-2008 14:50							
HRLT A4-A5 Voltage Plus - 0	0	N/A	68800	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	79010	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	72780	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	73000	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69990	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70000	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-75720	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56							
Before: 23-Feb-2008 14:50							
HRLT A5-A6 Voltage Plus - 0	0	N/A	69210	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	79600	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	73290	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	73480	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	70410	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	71340	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-76280	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP							
Before: 23-Feb-2008 14:50							
HRLT Torpedo-M0 Voltage - 0	0	N/A	-68600	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-79280	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-73020	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-73260	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-70220	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-71150	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	75910	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD							
Before: 23-Feb-2008 14:50							
HRLT Bridge#9-M0 Voltage - 0	0	N/A	-68580	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 1	0	N/A	-79240	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 2	0	N/A	-72990	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 3	0	N/A	-73230	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 4	0	N/A	-70220	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 5	0	N/A	-71150	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 6	0	N/A	75880	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO

Before: 23-Feb-2008 14:50

HRLT Source Current Plus - 0	0	N/A	286.2	N/A	N/A	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	N/A	N/A	8.520	UA

High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV

Before: 23-Feb-2008 14:50

HRLT Vertical Voltage PI - 0	0	N/A	-323.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-361.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-331.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-328.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-312.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-331.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	-366.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - Stab Measurement Summary

Before: 22-Feb-2008 13:21

BS2 Window Ratio	0.7383	N/A	0.7364	N/A	N/A	N/A	
BS2 Window Sum	26790	N/A	26850	N/A	N/A	N/A	CPS
SS2 Window Ratio	0.4880	N/A	0.4877	N/A	N/A	N/A	
SS2 Window Sum	12320	N/A	12280	N/A	N/A	N/A	CPS
LS2 Window Ratio	0.2973	N/A	0.3011	N/A	N/A	N/A	
LS2 Window Sum	1478	N/A	1470	N/A	N/A	N/A	CPS

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - Photo-multiplier High Voltages Calibrations

Before: 22-Feb-2008 13:21

BS2 PM High Voltage (Command)	1403	N/A	1390	N/A	N/A	N/A	V
SS2 PM High Voltage (Command)	1315	N/A	1297	N/A	N/A	N/A	V
LS2 PM High Voltage (Command)	1334	N/A	1323	N/A	N/A	N/A	V

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - Crystal Quality Resolutions Calibration

Before: 22-Feb-2008 13:21

BS2 Crystal Resolution	11.04	N/A	10.83	N/A	N/A	N/A	%
SS2 Crystal Resolution	9.084	N/A	9.371	N/A	N/A	N/A	%
LS2 Crystal Resolution	8.323	N/A	8.459	N/A	N/A	N/A	%

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - MCFL2 Calibration

Before: 22-Feb-2008 13:13

Raw B0 Resistivity	3675	N/A	3842	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3815	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3819	N/A	N/A	N/A	OHMM

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - HILT2 Caliper Calibration

Before: 22-Feb-2008 13:09

HILT2 Caliper Zero Measurement	200.0	N/A	176.5	N/A	N/A	N/A	MM
HILT2 Caliper Plus Measurement	306.0	N/A	290.3	N/A	N/A	N/A	MM

High resolution Integrated Logging Tool-DTS2 Master Calibration - Inversion results

Master: 22-Feb-2008 12:27

Rho Aluminum	2096	2001	--	--	--	--	K/M3
Rho Magnesium	1686	1686	--	--	--	--	K/M3
Pe Aluminum	2.570	2.561	--	--	--	--	
Pe Magnesium	2.650	2.617	--	--	--	--	

High resolution Integrated Logging Tool-DTS2 Master Calibration - Deviation Summary

Master: 22-Feb-2008 12:27

BS2 Average Deviation	0	0.2741	--	--	--	--	%
BS2 Max Deviation	0	1.036	--	--	--	--	%
SS2 Average Deviation	0	0.3569	--	--	--	--	%
SS2 Max Deviation	0	1.416	--	--	--	--	%
LS2 Average Deviation	0	0.5074	--	--	--	--	%
LS2 Max Deviation	0	1.283	--	--	--	--	%

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 4-Jan-2008 9:55 Before: 22-Feb-2008 14:24

Na 511 Peak Loc	40.00	39.78	39.66	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.38	14.95	N/A	N/A	2.000	%
High Voltage	1150	1258	1238	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	143.7	143.5	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.442	7.671	N/A	N/A	2.000	%
Temperature	15.50	22.14	13.05	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	35.30	33.55	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 4-Jan-2008 9:55 Before: 22-Feb-2008 14:24

Na 511 Peak Loc	40.00	39.66	39.58	N/A	N/A	1.000	
Na 511 Peak Res	15.50	14.86	16.08	N/A	N/A	2.000	%
High Voltage	1150	1273	1255	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.7	143.1	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.234	8.070	N/A	N/A	2.000	%
Temperature	15.50	21.49	12.34	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	35.28	33.40	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2

Master: 4-Jan-2008 9:55 Before: 22-Feb-2008 14:24

Coincidence Count Rate Ratio	1.000	1.001	1.004	N/A	N/A	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 4-Jan-2008 9:50

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.0	--	--	--	--	
Th Peak Res	7.000	6.765	--	--	--	--	%
Background Count Rate	142.5	82.05	--	--	--	--	CPS
Gain Ratio	1.000	1.009	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 4-Jan-2008 9:50

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.2	--	--	--	--	
Th Peak Res	7.000	7.094	--	--	--	--	%
Background Count Rate	142.5	80.00	--	--	--	--	CPS
Gain Ratio	1.000	1.013	--	--	--	--	

The GLS-VJ source activity is acceptable.

The HGNS Neutron Master Calibration was done with the following parameters :

NCT-B Water Temperature 19.4 DEGC.
Thermal Housing Size 85.750 MM.
NSR-F serial number 5196

The GLS-VJ2 source activity is acceptable.

High resolution Integrated Logging Tool-DTS / Equipment Identification

Primary Equipment:

HILT high-Resolution Mechanical Sonde	HRMS - H	4719
HILT Rxo Gamma-ray Device	HRGD - H	4751
HILT Micro Cylindrically Focused Log Dev	MCFL - H	
GR Logging Source	GLS - VJ	5041
HILT High Res. Control Cartridge	HRCC - H	4722
HILT Gamma-Ray Neutron Sonde-DTS	HGNS - H	4738
HGNS Gamma-Ray Device	HGR -	
HGNS Neutron Detector with Alpha Source	HCNT - H	

Auxiliary Equipment:

Neutron Calibration Tank	NCT - B	
Gamma Source Radioactive	GSR - U/Y	11
HGNS Housing	HGNH -	3811

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration

Stab Measurement Summary

Phase	BS Window Ratio	Value	Phase	SS Window Ratio	Value	Phase	LS Window Ratio	Value
Before		0.7431	Before		0.4888	Before		0.2984
	0.7051 (Minimum) 0.7422 (Nominal) 0.7793 (Maximum)			0.4642 (Minimum) 0.4886 (Nominal) 0.5131 (Maximum)			0.2848 (Minimum) 0.2997 (Nominal) 0.3147 (Maximum)	
Phase	BS Window Sum CPS	Value	Phase	SS Window Sum CPS	Value	Phase	LS Window Sum CPS	Value
Before		30020	Before		12820	Before		1522
	28490 (Minimum) 29980 (Nominal) 31480 (Maximum)			12190 (Minimum) 12830 (Nominal) 13470 (Maximum)			1448 (Minimum) 1524 (Nominal) 1600 (Maximum)	

Before: 22-Feb-2008 10:39

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Photo-multiplier High Voltages Calibrations

Phase	BS PM High Voltage (Command) V	Value	Phase	SS PM High Voltage (Command) V	Value	Phase	LS PM High Voltage (Command) V	Value
Before		1359	Before		1303	Before		1249
	1266 (Minimum) 1366 (Nominal) 1466 (Maximum)			1194 (Minimum) 1294 (Nominal) 1394 (Maximum)			1144 (Minimum) 1244 (Nominal) 1344 (Maximum)	

Before: 22-Feb-2008 10:39

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Crystal Quality Resolutions Calibration

Phase	BS Crystal Resolution %	Value	Phase	SS Crystal Resolution %	Value	Phase	LS Crystal Resolution %	Value
Before		10.61	Before		9.391	Before		8.035
	9.623 (Minimum) 10.62 (Nominal) 11.62 (Maximum)			8.106 (Minimum) 9.106 (Nominal) 10.11 (Maximum)			7.132 (Minimum) 8.132 (Nominal) 9.132 (Maximum)	

Before: 22-Feb-2008 10:39

High resolution Integrated Logging Tool-DTS Wellsite Calibration

MCFL Calibration

Phase	Raw B0 Resistivity OHMM	Value	Phase	Raw B1 Resistivity OHMM	Value	Phase	Raw B2 Resistivity OHMM	Value
Before		3882	Before		3836	Before		3837
	3565 (Minimum) 3875 (Nominal) 4185 (Maximum)			3524 (Minimum) 3830 (Nominal) 4136 (Maximum)			3524 (Minimum) 3830 (Nominal) 4136 (Maximum)	

Before: 22-Feb-2008 10:34

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HILT Caliper Calibration

Phase	HILT Caliper Zero Measurement MM	Value	Phase	HILT Caliper Plus Measurement MM	Value
Before		184.6	Before		303.3
	150.0 (Minimum) 200.0 (Nominal) 250.0 (Maximum)			229.5 (Minimum) 306.0 (Nominal) 382.5 (Maximum)	

Before: 22-Feb-2008 10:32

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		10.87	Before		180.7	Before		162.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			164.3 (Minimum) 180.7 (Nominal) 197.2 (Maximum)			147.0 (Minimum) 162.0 (Nominal) 177.0 (Maximum)	

Before: 22-Feb-2008 13:39

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Zero Measurement

Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		26.64	Master		26.42
Before		26.88	Before		27.40
	5.000 (Minimum) 26.64 (Nominal) 40.00 (Maximum)			5.000 (Minimum) 26.42 (Nominal) 40.00 (Maximum)	

Master: 15-Jan-2008 15:00

Before: 22-Feb-2008 13:32

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Ratio Measurement

Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master		6123	Master		2592	Master		2.362
	4700 (Minimum) 5800 (Nominal) 6900 (Maximum)			1900 (Minimum) 2400 (Nominal) 2900 (Maximum)			2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	

Master: 15-Jan-2008 15:00

High resolution Integrated Logging Tool-DTS

Wellsite Calibration

Accelerometer Calibration

2	Before		-72990	-70000	-60900	-82360
3	Before		-73230	-70000	-60900	-82360
4	Before		-70220	-70000	-60900	-82360
5	Before		-71150	-70000	-60900	-82360
6	Before		75880	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 23-Feb-2008 14:50						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		286.2	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
2	Before		281.1	281.1	330.7	244.4
3	Before		281.1	281.1	330.7	244.4
4	Before		281.1	281.1	330.7	244.4
5	Before		281.1	281.1	330.7	244.4
6	Before		281.1	281.1	330.7	244.4
7	Before		281.1	281.1	330.7	244.4
(Minimum) (Nominal) (Maximum)						
Before: 23-Feb-2008 14:50						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-323.0	-322.7	-280.7	-379.7
1	Before		-361.3	-322.7	-280.7	-379.7
2	Before		-331.3	-322.7	-280.7	-379.7
3	Before		-328.4	-322.7	-280.7	-379.7
4	Before		-312.8	-322.7	-280.7	-379.7
5	Before		-331.8	-322.7	-280.7	-379.7
6	Before		366.8	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 23-Feb-2008 14:50						

High resolution Integrated Logging Tool-DTS2 / Equipment Identification			
Primary Equipment:			
HILT2 high-Resolution Mechanical Sonde	HRMS - H2	3983	
HILT2 Rxo Gamma-ray Device	HRGD - H2	4709	
HILT2 Micro Cylindrically Focused Log De	MCFL - H2		
GR Logging Source	GLS - VJ2	1984	
HILT2 High Res. Control Cartridge	HRCC - H2	3990	
HILT2 HTBC DTS mode	HTBC - H2	3733	
HTBC2 Communication Assembly DTS Mode	HMCA - H	3733	
Auxiliary Equipment:			

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration											
Stab Measurement Summary											
Phase BS2 Window Ratio			Value	Phase SS2 Window Ratio			Value	Phase LS2 Window Ratio			Value
Before			0.7364	Before			0.4877	Before			0.3011
0.7014	0.7383	0.7753		0.4636	0.4880	0.5124		0.2824	0.2973	0.3122	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
Phase BS2 Window Sum CPS			Value	Phase SS2 Window Sum CPS			Value	Phase LS2 Window Sum CPS			Value
Before			26850	Before			12280	Before			1470
25450	26790	28130		11710	12320	12940		1405	1478	1552	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
Before: 22-Feb-2008 13:21											

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration											
Photo-multiplier High Voltages Calibrations											
Phase BS2 PM High Voltage (Command) V			Value	Phase SS2 PM High Voltage (Command) V			Value	Phase LS2 PM High Voltage (Command) V			Value
Before			1390	Before			1297	Before			1323
1303	1403	1503		1215	1315	1415		1234	1334	1434	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
Before: 22-Feb-2008 13:21											

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration											
Crystal Quality Resolutions Calibration											
Phase BS2 Crystal Resolution %			Value	Phase SS2 Crystal Resolution %			Value	Phase LS2 Crystal Resolution %			Value
Before			10.88	Before			9.371	Before			8.459
10.04	11.04	12.04		8.084	9.084	10.08		7.323	8.323	9.323	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
Before: 22-Feb-2008 13:21											

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration											
MCFL2 Calibration											
Phase Raw B0 Resistivity OHMM			Value	Phase Raw B1 Resistivity OHMM			Value	Phase Raw B2 Resistivity OHMM			Value
Before			3842	Before			3815	Before			3819
3585	3875	4185		3524	3830	4136		3524	3830	4136	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
Before: 22-Feb-2008 13:13											

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration											
HILT2 Caliper Calibration											
Phase HILT2 Caliper Zero Measurement MM			Value	Phase HILT2 Caliper Plus Measurement MM			Value				
Before			176.5	Before			290.3				
150.0	200.0	250.0		229.5	306.0	382.5					
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)					
Before: 22-Feb-2008 13:09											

High resolution Integrated Logging Tool-DTS2 Master Calibration													
Inversion Results													
Phase			Rho Aluminum K/M3			Value	Phase			Rho Magnesium K/M3			Value
Master						2601	Master						1686
2586 (Minimum)			2596 (Nominal)			2606 (Maximum)	1676 (Minimum)			1686 (Nominal)			1696 (Maximum)
Phase			Pe Aluminum			Value	Phase			Pe Magnesium			Value
Master						2.561	Master						2.617
2.470 (Minimum)			2.570 (Nominal)			2.670 (Maximum)	2.550 (Minimum)			2.650 (Nominal)			2.750 (Maximum)
Master: 22-Feb-2008 12:27													

High resolution Integrated Logging Tool-DTS2 Master Calibration											
Deviation Summary											
Phase BS2 Average Deviation %			Value	Phase SS2 Average Deviation %			Value	Phase LS2 Average Deviation %			Value
Master			0.2741	Master			0.3569	Master			0.5074
-0.6000	0	0.6000		-1.000	0	1.000		-1.500	0	1.500	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
Phase BS2 Max Deviation %			Value	Phase SS2 Max Deviation %			Value	Phase LS2 Max Deviation %			Value
Master			1.036	Master			1.416	Master			1.283
-1.600	0	1.600		-2.500	0	2.500		-3.500	0	3.500	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
Master: 22-Feb-2008 12:27											

Hostile Natural Gamma Ray Cartridge - B / Equipment Identification			
Primary Equipment:			
HNGC Cartridge	HNGC - B 4	405	
Auxiliary Equipment:			
HNGC Housing	HNGH - A	346	

Hostile Natural Gamma Ray Sonde / Equipment Identification			
Primary Equipment:			
HNGS Sonde	HNGS - BA	163	
Auxiliary Equipment:			
HNGS Sonde Housing	HNSH - BA	160	
Gamma Source Radioactive	GSR - U	1237	

Hostile Natural Gamma Ray Sonde Wellsite Calibration											
Detector 1 Check											
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master			39.78	Master			15.38	Master			1258
Before			39.66	Before			14.95	Before			1238
37.50 (Minimum)			40.00 (Nominal)	43.50 (Maximum)			12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)		
900.0 (Minimum)			1150 (Nominal)	1600 (Maximum)							
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master			143.7	Master			8.442	Master			22.14
Before			143.5	Before			7.671	Before			13.05
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)			7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)		
-28.89 (Minimum)			15.50 (Nominal)	60.00 (Maximum)							
Phase	Na Count Rate CPS		Value								
Master			35.30								
Before			33.55								
10.00 (Minimum)			45.00 (Nominal)								

Phase	Coincidence Count Rate Ratio	Value
Master		1.001
Before		1.004
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: 4-Jan-2008 9:55		
Before: 22-Feb-2008 14:24		

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 1 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			211.0	Master			6.765
38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)				201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)				5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)			
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			82.05	Master			1.009				
10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)				0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)							
Master: 4-Jan-2008 9:50											

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 2 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			211.2	Master			7.094
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			80.00	Master			1.013				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 4-Jan-2008 9:50											

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge
DTC-H Telemetry Cartridge

DTCH - A 9397
DTCH - A 9397

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC 10485

Company: **PETRO-CANADA**

Schlumberger

Well: **PETRO-CANADA BLACKWATER KWIJKA M-59**

Field: **KWIJKA**

Province: **NORTHWEST TERRITORIES**

MD

MD

**PLATFORM EXPRESS
MICRO-LOG**