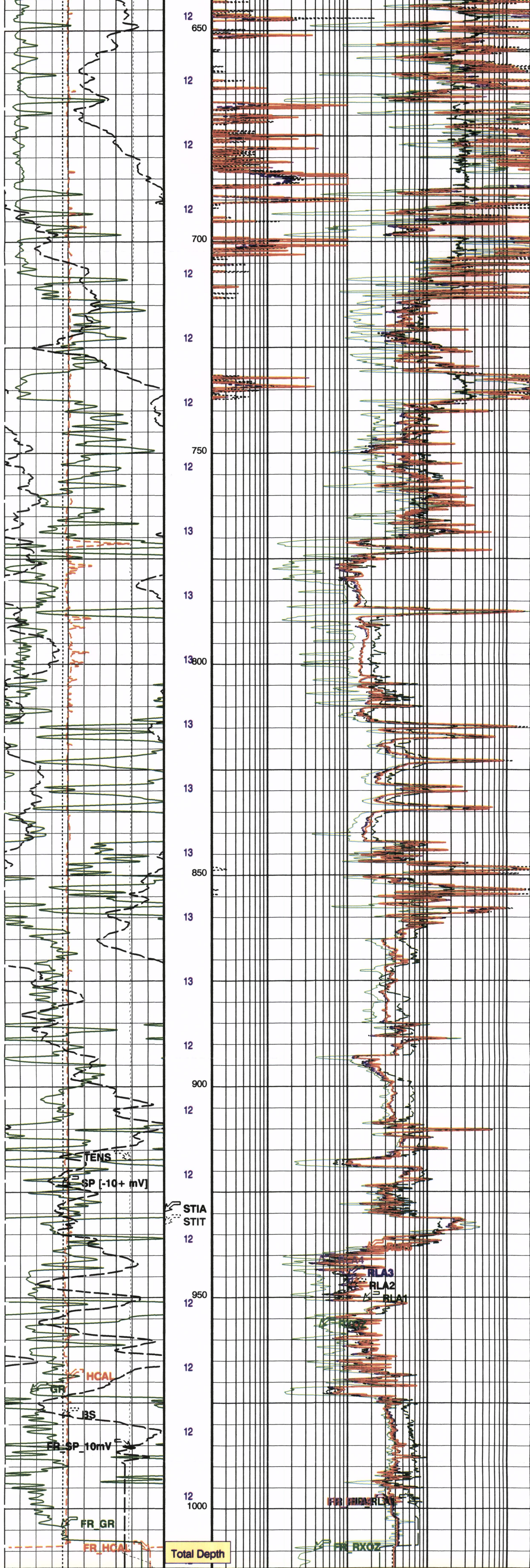




MAIN PASS: *** PLATFORM EXPRESS - HRLA LATEROLOG ***

Tension (TENS) (N)		Stuck Stretch (STIT)	Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)	
50000	0	0 (M) 20	0.2	2000
Bit Size (BS) (MM)		TEMP (TEMP) (DEGC)	HRLT Resistivity 1 (RLA1) (OHMM)	
125	375		0.2	2000
Gamma Ray (GR) (GAPI)			HRLT Resistivity 2 (RLA2) (OHMM)	
0	150		0.2	2000
HILT Caliper (HCAL) (MM)			HRLT Resistivity 3 (RLA3) (OHMM)	
125	375		0.2	2000
SP [-10+ mV] (SP) (MV)			HRLT Resistivity 4 (RLA4) (OHMM)	
-80	20		0.2	2000
			HRLT Resistivity 5 (RLA5) (OHMM)	
			0.2	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MPOF	HILTB-FTB: High resolution Integrated Logging Tool-DTS MCFL Processing Operation Mode	ON	
KFAC_HRLT	HRLT-B: High Resolution Laterolog Array - B HRLT K Factor Option	SONDE	
SPNV	SPA-A: SP ADAPTOR SP Next Value	0	MV
LBFR	STI: Stuck Tool Indicator	TDL	
STKT	Trigger for MAXIS First Reading Label	1.524	M
TDD	STI Stuck Threshold	1011.00	M
TDL	Total Depth - Driller Total Depth - Logger	1010.70	M
System and Miscellaneous			
BS	Bit Size	216.000	MM
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	NORMAL	

Format: HRLA600

Vertical Scale: 1:600

Graphics File Created: 09-Mar-2005 18:14

OP System Version: 12C0-301

MCM

HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301
LDT-D	12C0-301	DTA-A	12C0-301
DTC-H	12C0-301	SPA-A	12C0-301

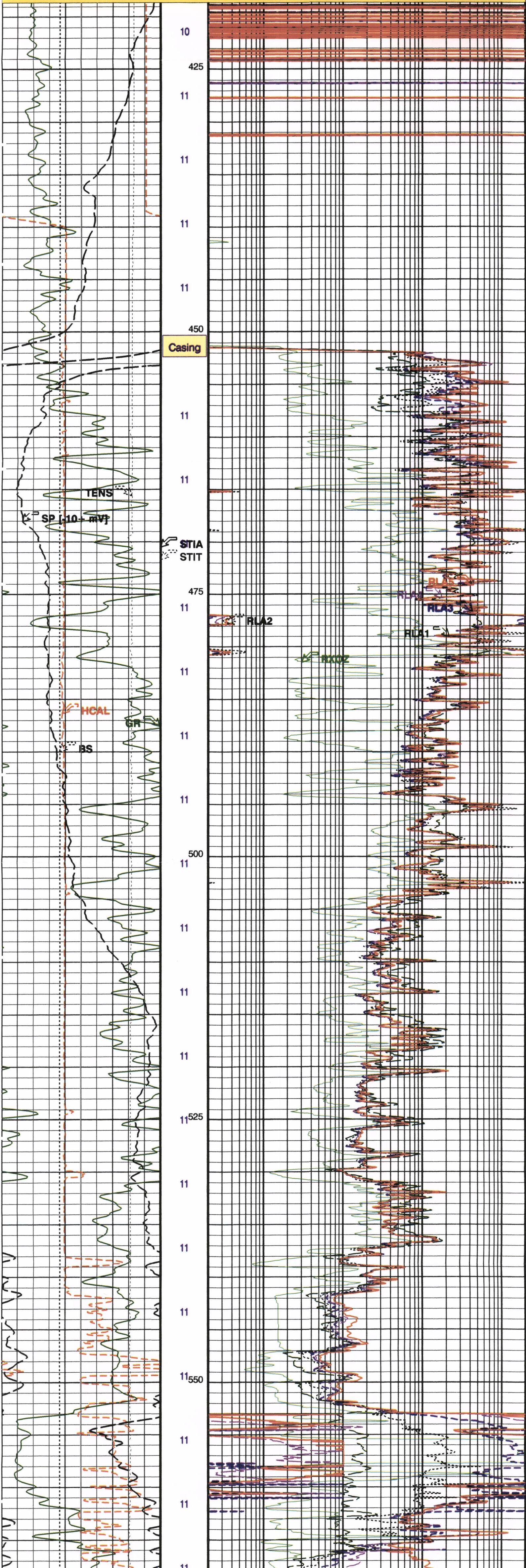
Input DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER	09-Mar-2005 17:02	
Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER	09-Mar-2005 18:14	
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER	09-Mar-2005 18:14	

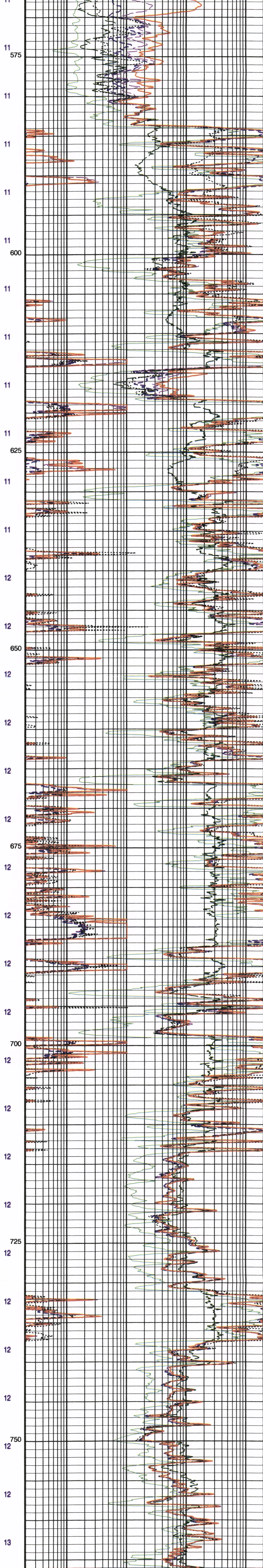
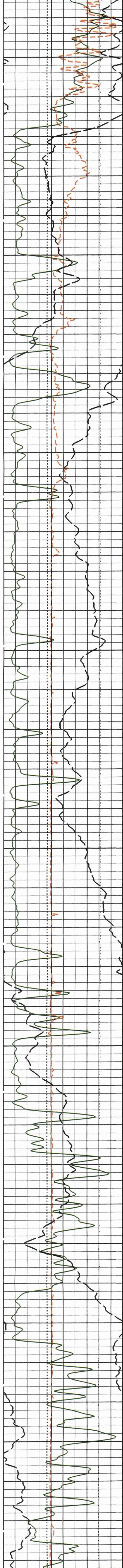
Input DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER	09-Mar-2005 17:02	1013.9 M 1.7 M
Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER	09-Mar-2005 18:14	
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER	09-Mar-2005 18:14	

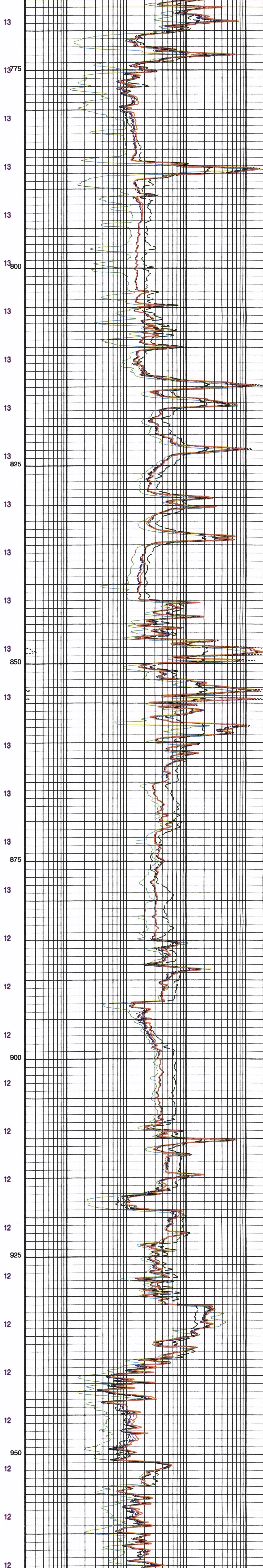
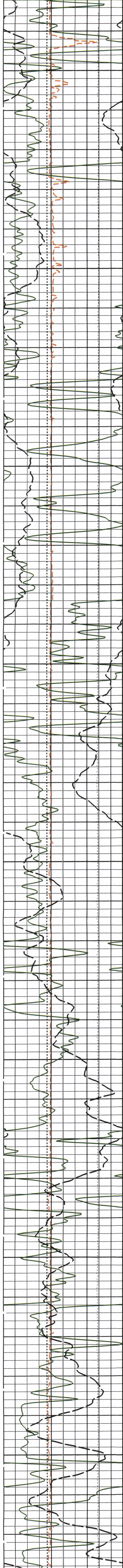
OP System Version: 12C0-301			
MCM			
HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301
LDT-D	12C0-301	DTA-A	12C0-301
DTC-H	12C0-301	SPA-A	12C0-301

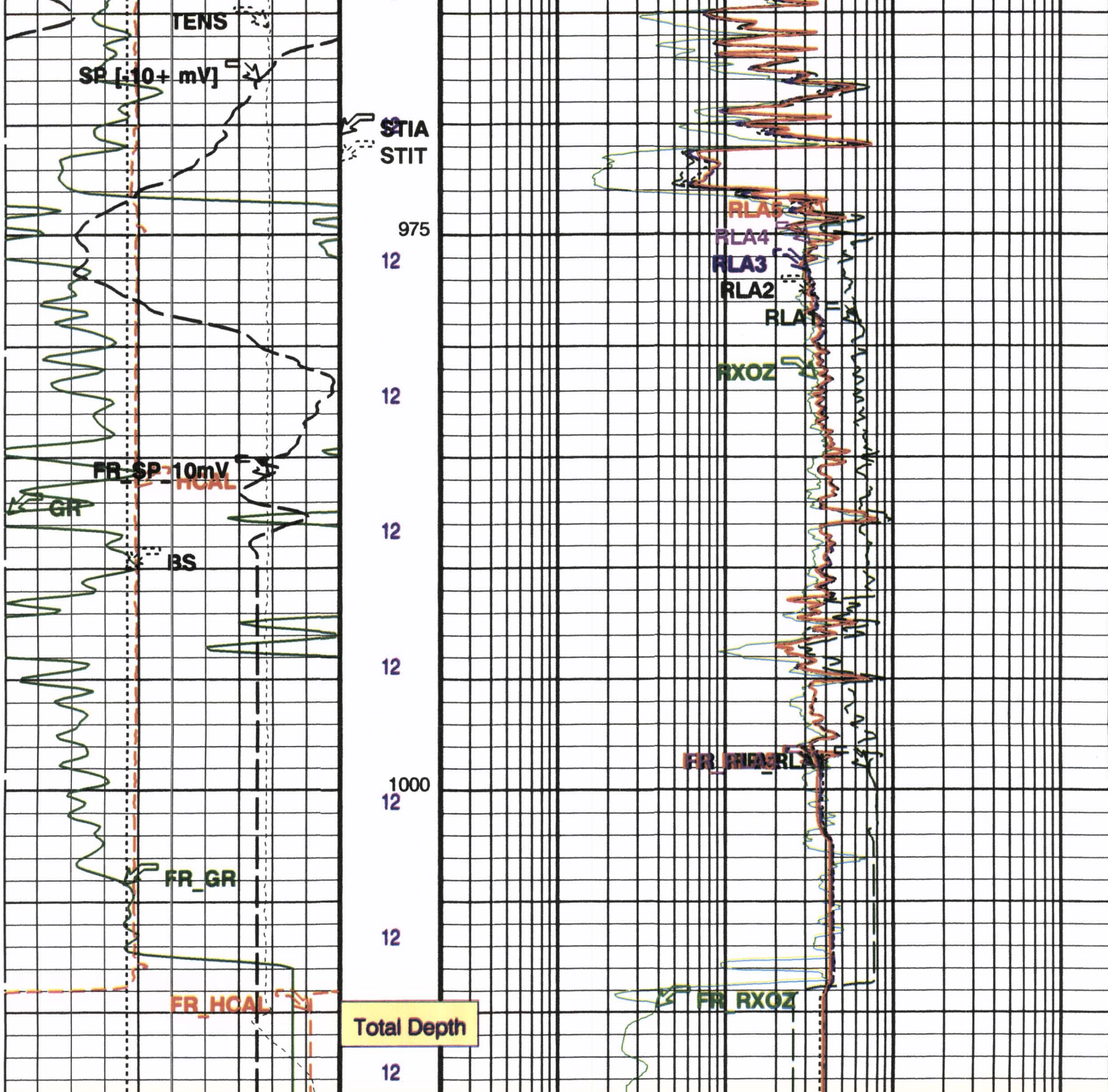
PIP SUMMARY			
Time Mark Every 60 S			
SP [-10+ mV] (SP) (MV) 125 HILT Caliper (HCAL) (MM) 375 Gamma Ray (GR) (GAPI) 150 Bit Size (BS) (MM) 375 Tension (TENS) (N) 50000 0	TEMP (ITEM) (DEGC) Stuck Stretch (STIT) (M) 20	HRLT Resistivity 5 (RLA5)	
		0.2 (OHMM) 2000	
		HRLT Resistivity 4 (RLA4)	
		0.2 (OHMM) 2000	
		HRLT Resistivity 3 (RLA3)	
		0.2 (OHMM) 2000	
HRLT Resistivity 2 (RLA2)			
0.2 (OHMM) 2000			
HRLT Resistivity 1 (RLA1)			
0.2 (OHMM) 2000			
Std. Res. Invaded Zone Resistivity (RXOZ)			
0.2 (OHMM) 2000			

MAIN PASS: *** PLATFORM EXPRESS - HRLA LATEROLOG ***









Tension (TENS)		Stuck Stretch (STIT)	Std. Res. Invaded Zone Resistivity (RXOZ)	
50000	(N)	0	0.2	2000
Bit Size (BS)		375	HRLT Resistivity 1 (RLA1)	
125	(MM)	TEMP (HTEM) (DEGC)	0.2	2000
Gamma Ray (GR)		150	HRLT Resistivity 2 (RLA2)	
0	(GAPI)		0.2	2000
HILT Caliper (HCAL)		375	HRLT Resistivity 3 (RLA3)	
125	(MM)		0.2	2000
SP [-10+ mV] (SP)		20	HRLT Resistivity 4 (RLA4)	
-80	(MV)		0.2	2000
			HRLT Resistivity 5 (RLA5)	
			0.2	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MPOF	HILTB-FTB: High resolution Integrated Logging Tool-DTS	ON
KFAC_HRLT	MCFL Processing Operation Mode	SONDE
SPNV	HRLT-B: High Resolution Laterolog Array - B	0 MV
LBFR	SPA-A: SP ADAPTOR	SP Next Value
STKT	STI: Stuck Tool Indicator	TDL
TDD	Trigger for MAXIS First Reading Label	1.524
TDL	STI Stuck Threshold	1011.00
	Total Depth - Driller	1010.70
	Total Depth - Logger	
BS	System and Miscellaneous	
DO	Bit Size	216.000
DORL	Depth Offset for Playback	0.0
PP	Depth Offset for Repeat Analysis	0.0
	Playback Processing	NORMAL

Format: HRLA240 Vertical Scale: 1:240 Graphics File Created: 09-Mar-2005 18:14

OP System Version: 12C0-301			
MCM			
HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301
LDT-D	12C0-301	DTA-A	12C0-301
DTC-H	12C0-301	SPA-A	12C0-301

Input DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER	09-Mar-2005 17:02	
Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER	09-Mar-2005 18:14	
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER	09-Mar-2005 18:14	

Input DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER	09-Mar-2005 17:02	1013.9 M
DEFAULT	TLD_MCFL_CNL_HRLA_050PUP	FN:55	PRODUCER	09-Mar-2005 17:39	894.3 M

Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER	09-Mar-2005 18:14	
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER	09-Mar-2005 18:14	

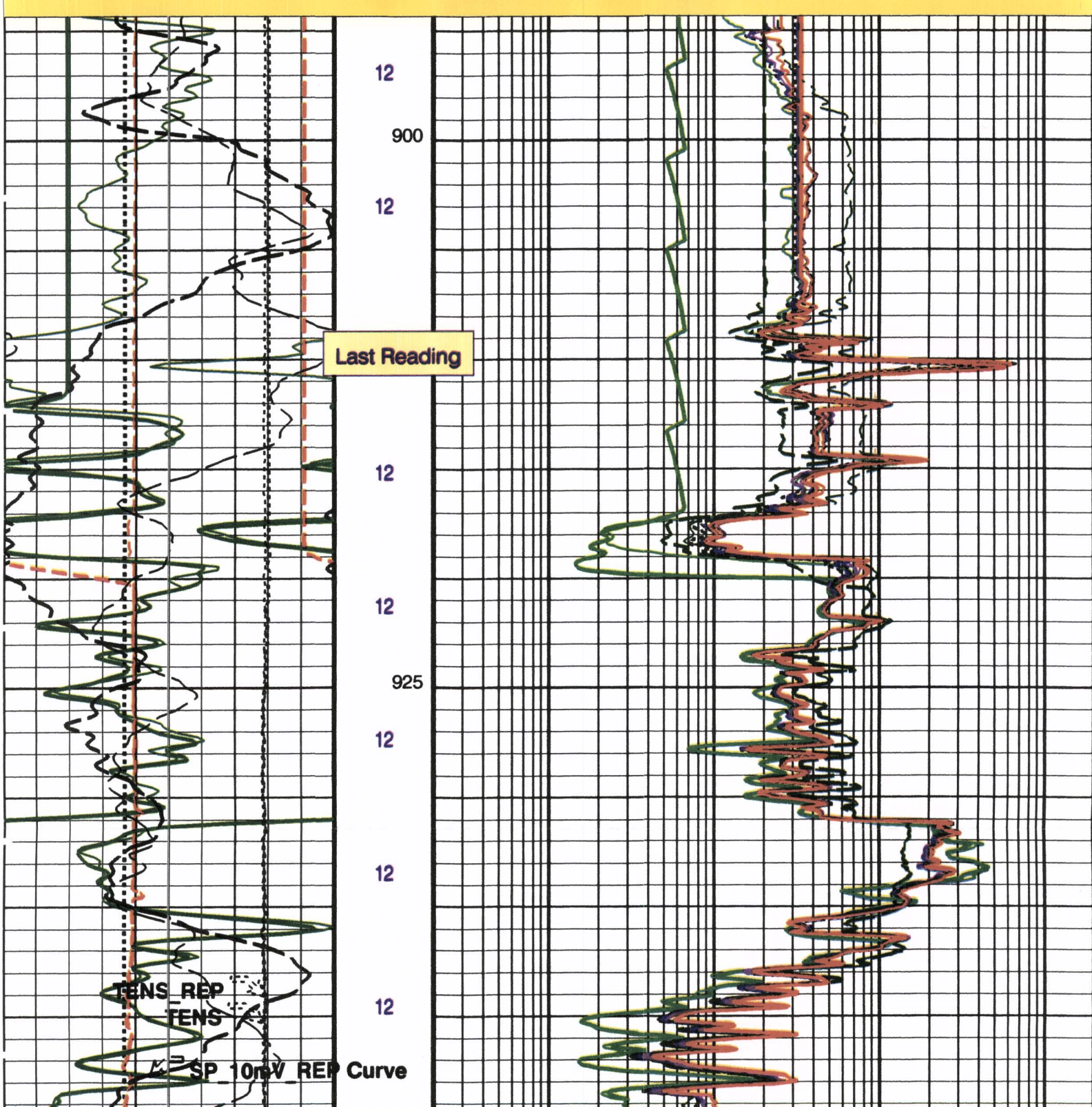
OP System Version: 12C0-301			
MCM			
HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301
LDT-D	12C0-301	DTA-A	12C0-301
DTC-H	12C0-301	SPA-A	12C0-301

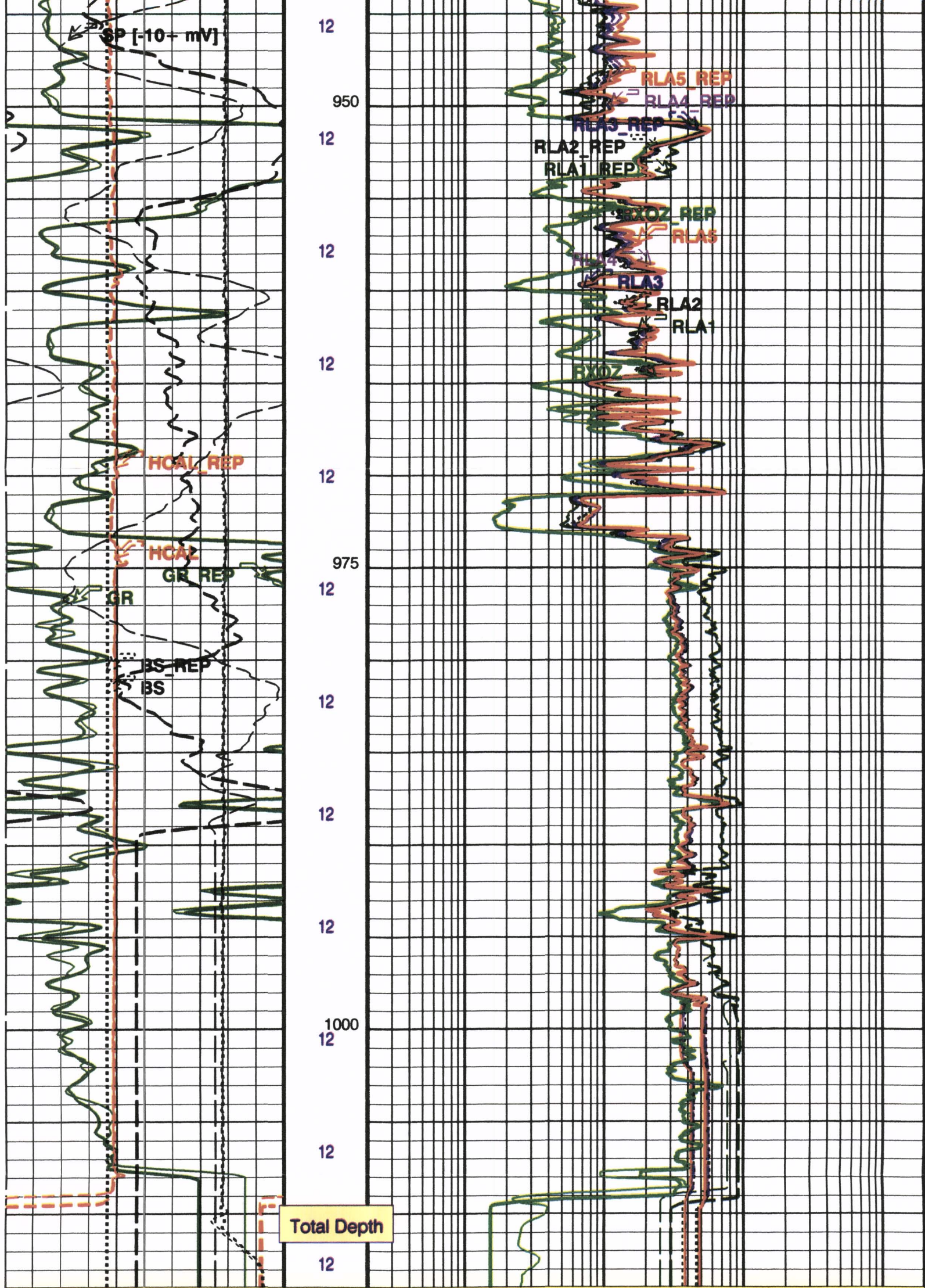
PIP SUMMARY

Time Mark Every 60 S

TENS REP Curve (TENS REP)		RLA5 REP Curve (RLA5 REP)	
50000	(N)	0.2	2000
SP 10mV REP Curve (SP REP)		RLA4 REP Curve (RLA4 REP)	
-80	(MV)	0.2	2000
HCAL REP Curve (HCAL REP)		RLA3 REP Curve (RLA3 REP)	
125	(MM)	0.2	2000
GR REP Curve (GR REP)		RLA2 REP Curve (RLA2 REP)	
0	(GAPI)	0.2	2000
BS REP Curve (BS REP)		RLA1 REP Curve (RLA1 REP)	
125	(MM)	0.2	2000
	TEMP (HTEM) (DEGC)	RXOZ REP Curve (RXOZ REP)	
		0.2	2000

REPEAT ANALYSIS: *** PLATFORM EXPRESS - HRLA LATEROLOG ***





REPEAT ANALYSIS: *** PLATFORM EXPRESS - HRLA LATEROLOG ***

BS REP Curve (BS REP) (MM)	125	375	TEMP (HTEM) (DEGC)	RXOZ REP Curve (RXOZ REP) (OHMM)	0.2	2000
GR REP Curve (GR REP) (GAPI)	0	150		RLA1 REP Curve (RLA1 REP) (OHMM)	0.2	2000
HCAL REP Curve (HCAL REP) (MM)	125	375		RLA2 REP Curve (RLA2 REP) (OHMM)	0.2	2000
SP 10mV REP Curve (SP REP) (MV)	-80	20		RLA3 REP Curve (RLA3 REP) (OHMM)	0.2	2000
TENS REP Curve (TENS REP) (N)	50000	0		RLA4 REP Curve (RLA4 REP) (OHMM)	0.2	2000
				RLA5 REP Curve (RLA5 REP) (OHMM)	0.2	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MPOF	HILTB-FTB: High resolution Integrated Logging Tool-DTS MCFL Processing Operation Mode	ON
KFAC_HRLT	HRLT-B: High Resolution Laterolog Array - B HRLT K Factor Option	SONDE
SPNV	SPA-A: SP ADAPTOR SP Next Value	0 MV
BS	System and Miscellaneous Bit Size	216.000 MM
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL

Format: HRLA240_REP Vertical Scale: 1:240 Graphics File Created: 09-Mar-2005 18:14

OP System Version: 12C0-301					
MCM					
HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301		
LDT-D	12C0-301	DTA-A	12C0-301		
DTC-H	12C0-301	SPA-A	12C0-301		

Input DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER	09-Mar-2005 17:02	
DEFAULT	TLD_MCFL_CNL_HRLA_050PUP	FN:55	PRODUCER	09-Mar-2005 17:39	1014.1 M 894.3 M

Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER	09-Mar-2005 18:14	
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER	09-Mar-2005 18:14	

Input DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER	09-Mar-2005 17:02	1013.9 M 1.7 M

Output DLIS Files					
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER	09-Mar-2005 18:14	
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER	09-Mar-2005 18:14	

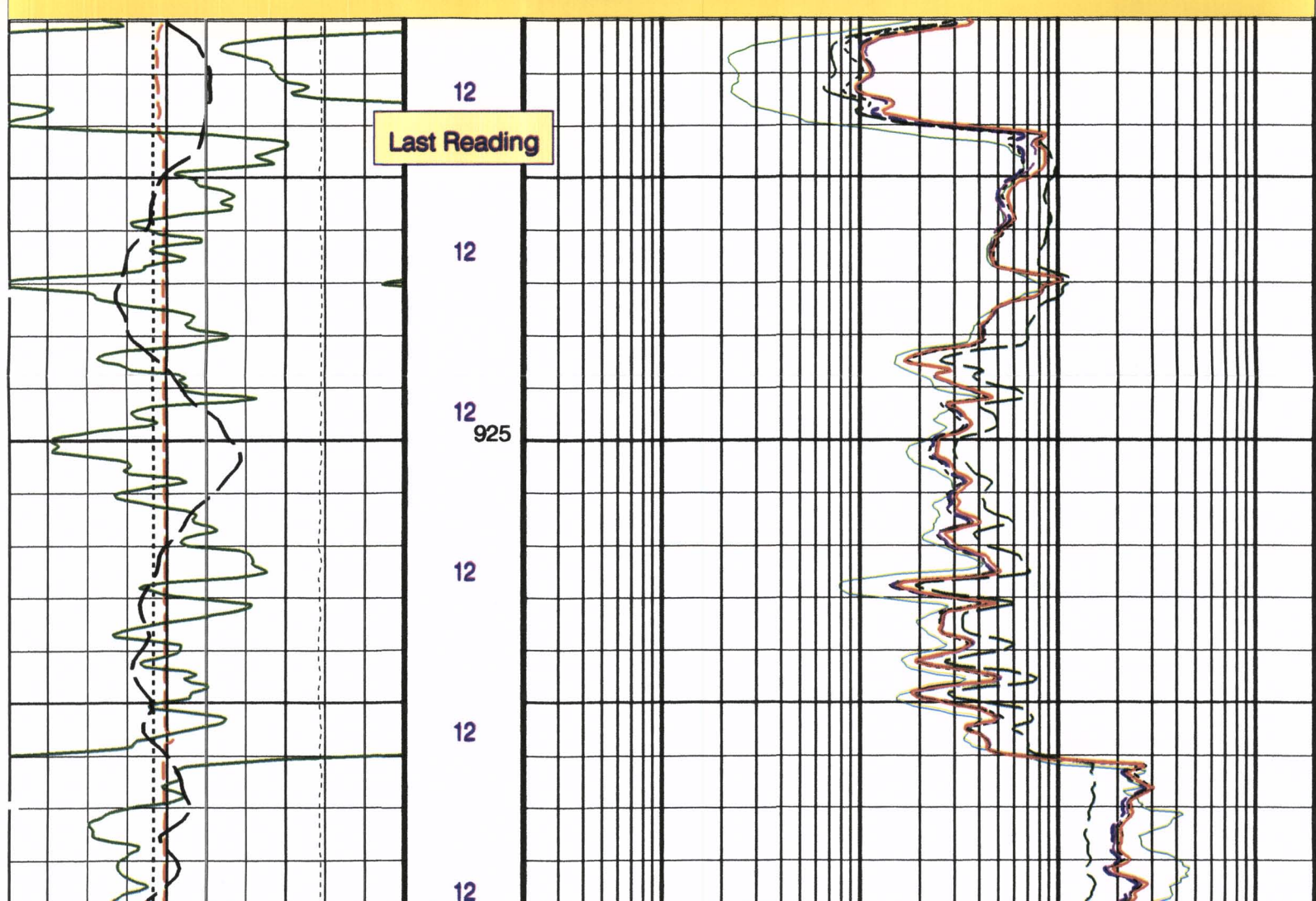
OP System Version: 12C0-301					
MCM					
HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301		
LDT-D	12C0-301	DTA-A	12C0-301		
DTC-H	12C0-301	SPA-A	12C0-301		

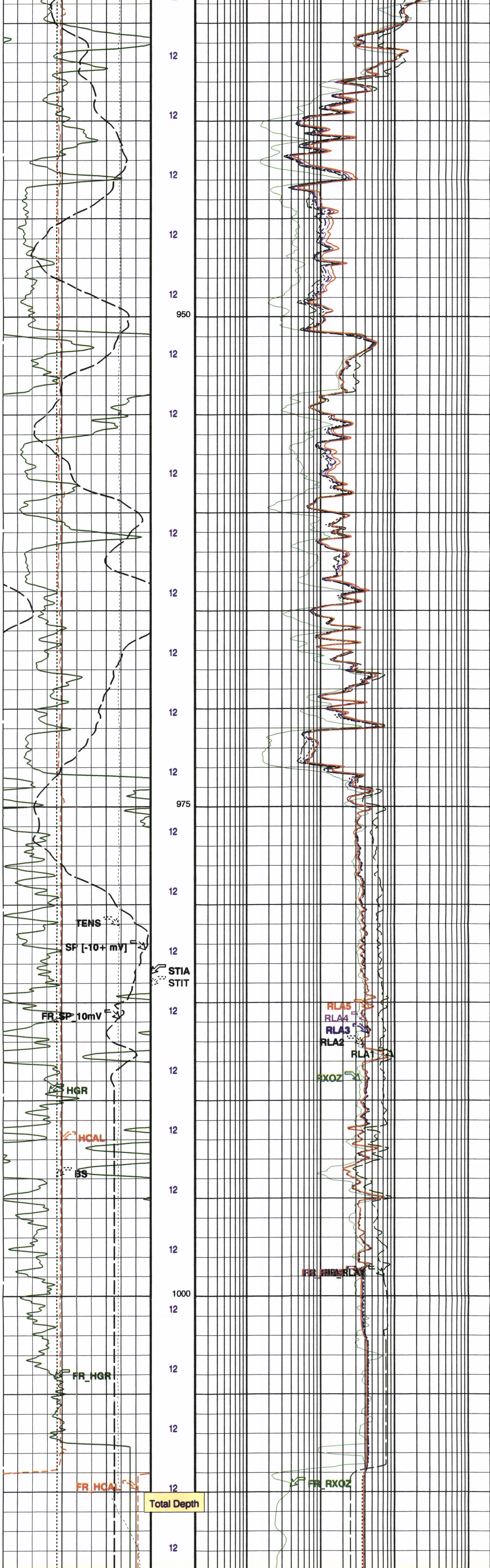
PIP SUMMARY

Time Mark Every 60 S

SP [-10+ mV] (SP) (MV)	-80	20	HRLT Resistivity 5 (RLA5) (OHMM)	0.2	2000
HiRes GammaRay (HGR) (GAPI)	0	150	HRLT Resistivity 4 (RLA4) (OHMM)	0.2	2000
HILT Caliper (HCAL) (MM)	125	375	HRLT Resistivity 3 (RLA3) (OHMM)	0.2	2000
Bit Size (BS) (MM)	125	375	HRLT Resistivity 2 (RLA2) (OHMM)	0.2	2000
Tension (TENS) (N)	50000	0	HRLT Resistivity 1 (RLA1) (OHMM)	0.2	2000
			Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)	0.2	2000

HIRES PASS: *** PLATFORM EXPRESS - HRLA LATEROLOG ***





HIRES PASS: *** PLATFORM EXPRESS - HRLA LATEROLOG ***

50000	Tension (TENS) (N)	0	Stuck Stretch (STIT) (M)	20	0.2	Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)	2000
125	Bit Size (BS) (MM)	375	TEMP (ITEM) (DEGC)		0.2	HRLT Resistivity 1 (RLA1) (OHMM)	2000
125	HILT Caliper (HCAL) (MM)	375			0.2	HRLT Resistivity 2 (RLA2) (OHMM)	2000
0	HiRes GammaRay (HGR) (GAPI)	150			0.2	HRLT Resistivity 3 (RLA3) (OHMM)	2000
-80	SP [-10+ mV] (SP) (MV)	20			0.2	HRLT Resistivity 4 (RLA4) (OHMM)	2000
					0.2	HRLT Resistivity 5 (RLA5) (OHMM)	2000

PIP SUMMARY

Time Mark Every 60 S

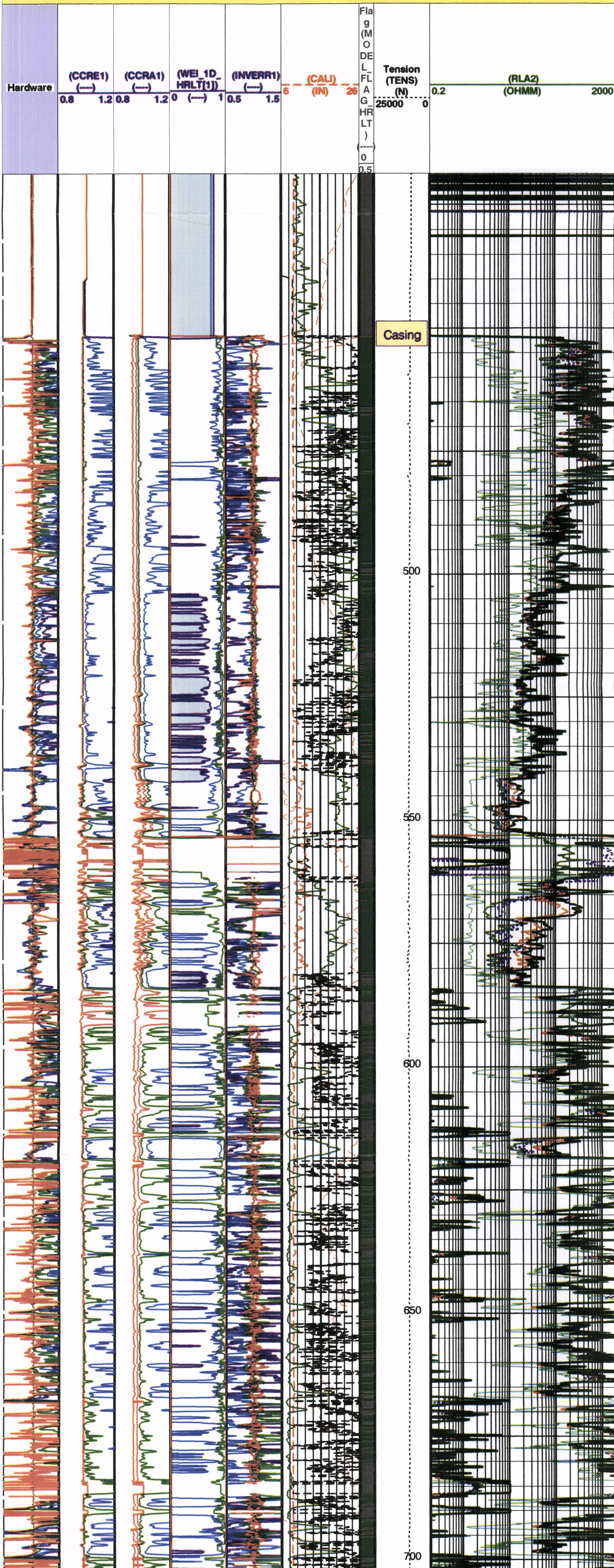
Parameters		
DLIS Name	Description	Value
MPOF	HILTB-FTB: High resolution Integrated Logging Tool-DTS MCFL Processing Operation Mode	ON
KFAC	HRLT-B: High Resolution Laterolog Array - B HRLT K Factor Option	SONDE
SPNV	SPA-A: SP ADAPTOR SP Next Value	0 MV
LBFR	STI: Stuck Tool Indicator	
STKT	Trigger for MAXIS First Reading Label	TDL
TDD	STI Stuck Threshold	1.524 M
TDL	Total Depth - Driller	1011.00 M
RS	Total Depth - Logger	1010.70 M
	System and Miscellaneous	
	Bit Size	216.000 MM

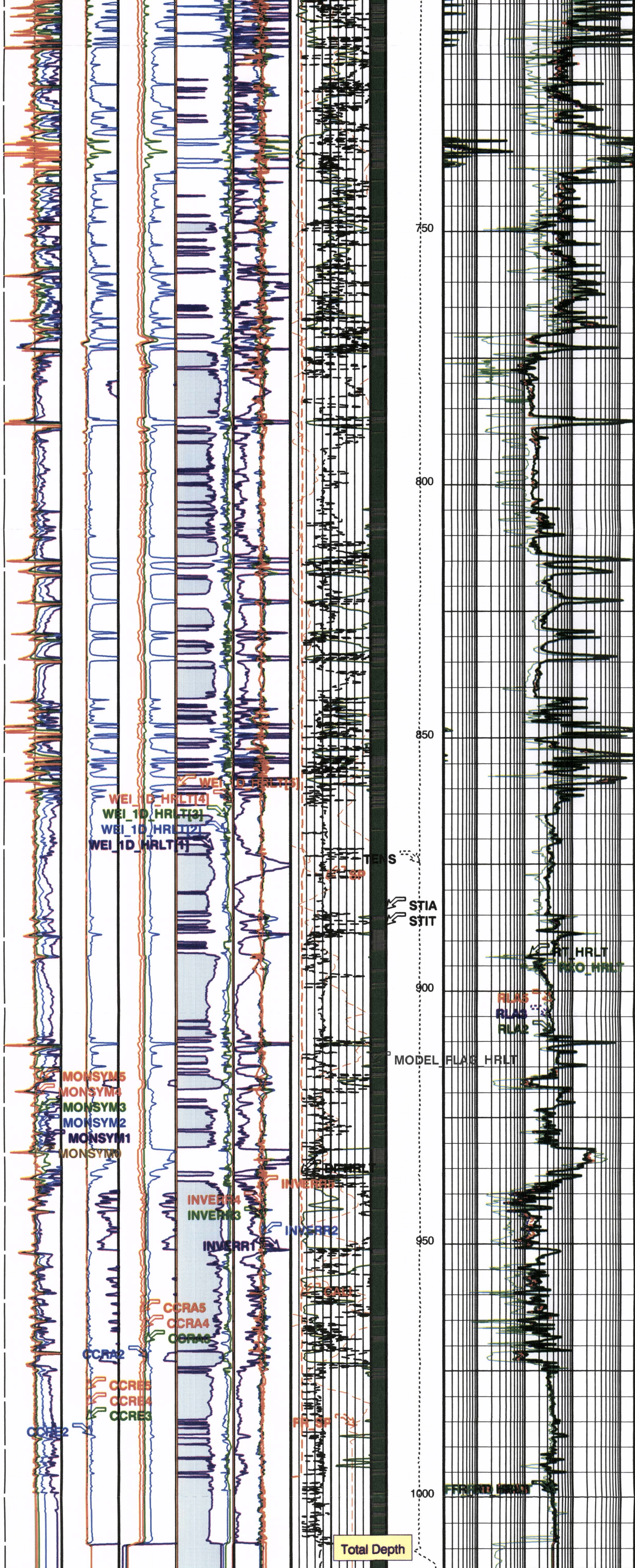
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	NORMAL	
Format: HRLA120	Vertical Scale: 1:120	Graphics File Created: 09-Mar-2005 18:14	
OP System Version: 12C0-301			
MCM			
HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301
LDT-D	12C0-301	DTA-A	12C0-301
DTC-H	12C0-301	SPA-A	12C0-301
Input DLIS Files			
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER 09-Mar-2005 17:02
Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER 09-Mar-2005 18:14
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER 09-Mar-2005 18:14

Input DLIS Files			
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER 09-Mar-2005 17:02 1013.9 M 1.7 M
Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER 09-Mar-2005 18:14
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER 09-Mar-2005 18:14

OP System Version: 12C0-301			
MCM			
HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301
LDT-D	12C0-301	DTA-A	12C0-301
DTC-H	12C0-301	SPA-A	12C0-301

PIP SUMMARY									
Time Mark Every 60 S									
(MONSYM5)									
-4 (---) 4									
(MONSYM4)	Eccentr	Borehole	Weights	Inversion					
-4 (---) 4									
(MONSYM3)	(CCRE5)	(CCRA5)	(WEI_1D_HRLT(5))	(INVERR5)				(RT HRLT)	
-4 (---) 4	0.8	1.2	0.8	1.2	0 (---) 1	0.5	1.5	(OHMM)	2000
(MONSYM2)	(CCRE4)	(CCRA4)	(WEI_1D_HRLT(4))	(INVERR4)				(RXO HRLT)	
-4 (---) 4	0.8	1.2	0.8	1.2	0 (---) 1	0.5	1.5	(OHMM)	2000
(MONSYM1)	(CCRE3)	(CCRA3)	(WEI_1D_HRLT(3))	(INVERR3)				(RLA5)	
-4 (---) 4	0.8	1.2	0.8	1.2	0 (---) 1	0.5	1.5	(OHMM)	2000
(MONSYM0)	(CCRE2)	(CCRA2)	(WEI_1D_HRLT(2))	(INVERR2)				(RLA3)	
-4 (---) 4	0.8	1.2	0.8	1.2	0 (---) 1	0.5	1.5	(OHMM)	2000
LOG QUALITY CONTROL: *** HIRES LATEROLOG ARRAY ***									





Hardware	(CCRE1) (---) 0.8 1.2 0.8 1.2	(CCRA1) (---) 0.8 1.2 0.8 1.2	(WEI_1D_HRLT[1]) (---) 0 (---) 1	(INVERR1) (---) 0.5 1.5	(CALI) (IN) 6 26	Flag (MODE) (FLAG) (HRLT) (---) (0.5)	Tension (TENS) (N) 25000 0	(RLA2) (OHMM) 0.2 2000
----------	-------------------------------------	-------------------------------------	--	-------------------------------	------------------------	--	-------------------------------------	------------------------------

LOG QUALITY CONTROL: *** HIRES LATEROLOG ARRAY ***

(MONSYM0) (---) -4 (---) 4	(CCRE2) (---) 0.8 1.2 0.8 1.2	(CCRA2) (---) 0.8 1.2 0.8 1.2	(WEI_1D_HRLT[2]) (---) 0 (---) 1	(INVERR2) (---) 0.5 1.5	(GR) (GAPI) 0 150	(RLA3) (OHMM) 0.2 2000
(MONSYM1) (---) -4 (---) 4	(CCRE3) (---) 0.8 1.2 0.8 1.2	(CCRA3) (---) 0.8 1.2 0.8 1.2	(WEI_1D_HRLT[3]) (---) 0 (---) 1	(INVERR3) (---) 0.5 1.5	(DI_HRLT) (IN) 6 26	(RLA5) (OHMM) 0.2 2000
(MONSYM2) (---) -4 (---) 4	(CCRE4) (---) 0.8 1.2 0.8 1.2	(CCRA4) (---) 0.8 1.2 0.8 1.2	(WEI_1D_HRLT[4]) (---) 0 (---) 1	(INVERR4) (---) 0.5 1.5	(SP) (MV) -30 20	(RXO_HRLT) (OHMM) 0.2 2000
(MONSYM3) (---) -4 (---) 4	(CCRE5) (---) 0.8 1.2 0.8 1.2	(CCRA5) (---) 0.8 1.2 0.8 1.2	(WEI_1D_HRLT[5]) (---) 0 (---) 1	(INVERR5) (---) 0.5 1.5		(RT_HRLT) (OHMM) 0.2 2000
(MONSYM4) (---) -4 (---) 4	Eccentr	Borehole	Weights	Inversion		
(MONSYM5) (---) -4 (---) 4						

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
BHT	HILTB-FTB: High resolution Integrated Logging Tool-DTS	13 DEGC
GCSE	Generalized Caliper Selection	HCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	HSTS_HTEM
SHT	Surface Hole Temperature	20 DEGC
BHT	HRLT-B: High Resolution Laterolog Array - B	13 DEGC
GCSE	Generalized Caliper Selection	HCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	HSTS_HTEM
KFAC_HRLT	HRLT K Factor Option	SONDE
PROCMFL	Inversion Selection	ON
PROCMSO	Inversion Micro-Resistivity Selection	RXOZ
PROCRM	Mechanical Standoff Fin Size	25.4 MM
PROCRPO	Processing Mud Resistivity Select	HRLT Compute
SHT	Sonde Position	Eccentered
	Surface Hole Temperature	20 DEGC
SPNV	SPA-A: SP ADAPTOR	0 MV
	SP Next Value	
	HOLEV: Integrated Hole/Cement Volume	
BHT	Bottom Hole Temperature (used in calculations)	13 DEGC
GCSE	Generalized Caliper Selection	HCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	HSTS_HTEM
SHT	Surface Hole Temperature	20 DEGC

OP System Version: 12C0-301	
MCM	
HILTB-FTB	SRPC-2699-HILT
LDT-D	12C0-301
DTC-H	12C0-301
HRLT-B	12C0-301
DTA-A	12C0-301
SPA-A	12C0-301

Input DLIS Files			
DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER 09-Mar-2005 17:02

Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER 09-Mar-2005 18:14
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER 09-Mar-2005 18:14

HRDD Processing Flags Statistical Analysis:				
Percentages computed on interval 3283.7 to 1493.0 ft (1000.9 to 455.1 m)				
Pef Flags Up	1.1 %			
Density Flags Up	0.0 %			
	Window 1	Window 2	Window 3	Window 4
BS Average Reconstruction Error	0.32 %	-0.62 %	0.09 %	
SS Average Reconstruction Error	-0.08 %	-0.04 %	-0.30 %	0.35 %
LS Average Reconstruction Error	2.24 %	1.52 %	0.30 %	-0.49 %

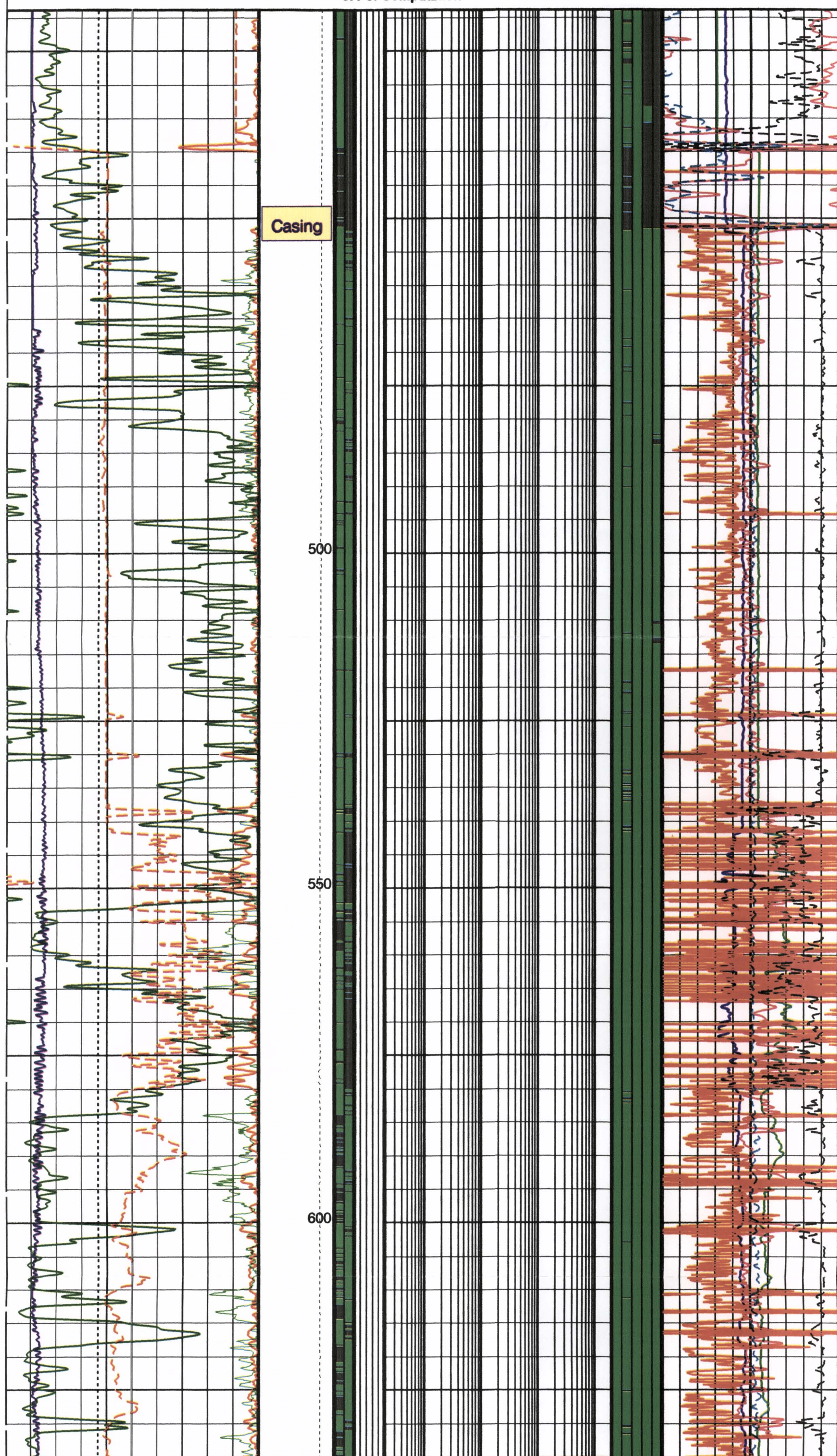
Changed Parameter Summary			
DLIS Name	New Value	Previous Value	Depth & Time
BHS	CASED	OPEN	452.0 18:18:51

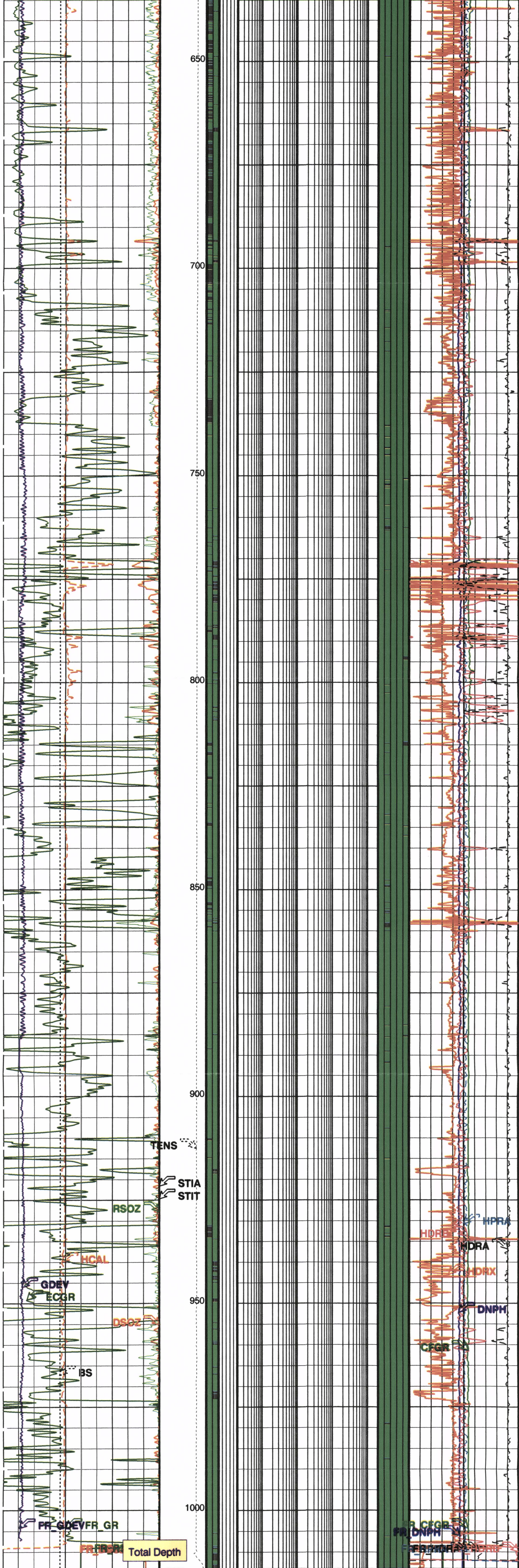
LOG QUALITY: * PLATFORM EXPRESS *****

RESISTIVITY TRACK :

- NUCLEAR TRACK :**

1. Accelerometer
2. Density Detector
3. Neutron Porosity
4. Density Computation
5. Pef Computation





*** Flag Tracks ***
White = Absent Green = Good Yellow = Warn Red/Black = Bad

- RESISTIVITY TRACK :**
- 1. MCFL Hardware
 - 2. RXO Processing
 - 3. HAIT Hardware
 - 4. HAIT Array[1-2]
 - 5. HAIT Array[3-4]
 - 6. HAIT Array[5-6]
 - 7. HAIT Array[7-8]

- NUCLEAR TRACK :**
- 1. Accelerometer
 - 2. Density Detector
 - 3. Neutron Porosity
 - 4. Density Computation
 - 5. PeI Computation

LOG QUALITY: *** PLATFORM EXPRESS ***

Std. Res. Resistivity Standoff (RSOZ) 65 (MM)	Tension (TENS) (N) 50000 0	GR Borehole Correction Factor (CFGR) 0.5 (---) 1.5
Bit Size (BS) 125 (MM)	Stuck Stretch (STIT) (M) 20	Delta Neutron Porosity (DNPH) -0.1 (V/V) 0.1
Std. Res. Density Standoff (DSOZ) 65 (MM)		HdRX (HDRX) 0.5 (---) 1.5
Gamma Ray (ECGR) (GAPI) 150		Density Correction (HDRA) 450 (K/M3) -50
HGNS Deviation (GDEV) -5 (DEG) 45		BS Delta Rho (HDRB) -0.5 (G/C3) 0.5
HILT Caliper (HCAL) 125 (MM) 375		Pe Correction (HPRA) -3 (---) 3

Parameters		
DLIS Name	Description	Value
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
BHFL	Borehole Fluid Type	WATER
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DFB	HILT Nuclear Mud Base	Water
DHC	Density Hole Correction	BS
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HSCO	Hole Size Correction Option	YES
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
MCCO	Mud Cake Correction Option	NO
MCOR	Mud Correction	NATU
MPOF	MCFL Processing Operation Mode	ON
MWCO	Mud Weight Correction Option	NO
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
PTCO	Pressure/Temperature Correction Option	NO
SDAT	Standoff Data Source	SOCN
SHT	Surface Hole Temperature	20 DEGC
SOCN	Standoff Distance	3.175 MM
SOCO	Standoff Correction Option	YES
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
SHT	Surface Hole Temperature	20 DEGC
LDT-D: Litho Density - D		
DHC	Density Hole Correction	BS
HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
SHT	Surface Hole Temperature	20 DEGC
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL
STKT	STI Stuck Threshold	1.524 M
TDD	Total Depth - Driller	1011.00 M
TDL	Total Depth - Logger	1010.70 M
System and Miscellaneous		
BS	Bit Size	216.000 MM
BSAL	Borehole Salinity	-50000.00 PPM
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL

Format: PEX_LQC

Vertical Scale: 1:600

Graphics File Created: 09-Mar-2005 18:14

OP System Version: 12C0-301

MCM

HILTB-FTB	SRPC-2699-HILT	HRLT-B	12C0-301
LDT-D	12C0-301	DTA-A	12C0-301
DTC-H	12C0-301	SPA-A	12C0-301

Input DLIS Files

DEFAULT	TLD_MCFL_CNL_HRLA_048LUP	FN:53	PRODUCER	09-Mar-2005 17:02
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Output DLIS Files

DEFAULT	TLD_MCFL_CNL_HRLA_054PUP	FN:61	PRODUCER	09-Mar-2005 18:14
OPTICAL	TLD_MCFL_CNL_HRLA_054PUP	FN:62	PRODUCER	09-Mar-2005 18:14

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-2005 12:56								
BS Window Ratio	0.7547	N/A	0.7472	N/A	N/A	N/A	CPS	
BS Window Sum	11010	N/A	10990	N/A	N/A	N/A		
SS Window Ratio	0.4791	N/A	0.4821	N/A	N/A	N/A		
SS Window Sum	10880	N/A	10860	N/A	N/A	N/A	CPS	
LS Window Ratio	0.3064	N/A	0.2946	N/A	N/A	N/A	CPS	
LS Window Sum	1222	N/A	1215	N/A	N/A	N/A		
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations								
Before: 22-Feb-2005 12:56								
BS PM High Voltage (Command)	1804	N/A	1845	N/A	N/A	N/A	V	
SS PM High Voltage (Command)	1973	N/A	1932	N/A	N/A	N/A	V	
LS PM High Voltage (Command)	1966	N/A	1951	N/A	N/A	N/A	V	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Crystal Quality Resolutions Calibration								
Before: 22-Feb-2005 12:56								
BS Crystal Resolution	11.16	N/A	11.41	N/A	N/A	N/A	%	
SS Crystal Resolution	10.96	N/A	10.37	N/A	N/A	N/A	%	
LS Crystal Resolution	8.932	N/A	9.041	N/A	N/A	N/A	%	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - MCFL Calibration								
Before: 22-Feb-2005 12:58								
Raw B0 Resistivity	3875	N/A	3859	N/A	N/A	N/A	OHMM	
Raw B1 Resistivity	3830	N/A	3832	N/A	N/A	N/A	OHMM	
Raw B2 Resistivity	3830	N/A	3845	N/A	N/A	N/A	OHMM	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - HILT Caliper Calibration								
Before: 22-Feb-2005 12:51								
HILT Caliper Zero Measurement	203.2	N/A	200.4	N/A	N/A	N/A	MM	
HILT Caliper Plus Measurement	304.8	N/A	309.4	N/A	N/A	N/A	MM	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration								
Before: 22-Feb-2005 12:51								
Gamma Ray Background	30.00	N/A	27.33	N/A	N/A	N/A	GAPI	
Gamma Ray (Jig - Bkg)	179.4	N/A	179.4	N/A	N/A	16.31	GAPI	
Gamma Ray (Calibrated)	166.0	N/A	166.0	N/A	N/A	15.00	GAPI	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Zero Measurement								
Master: 6-Feb-2005 18:07 Before: 22-Feb-2005 12:53								
CNTC Background	25.18	25.18	26.37	N/A	N/A	3.777	CPS	
CFTC Background	29.57	29.57	31.52	N/A	N/A	4.436	CPS	
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Ratio Measurement								
Master: 6-Feb-2005 18:07								
Thermal Near Corr. (Tank)	6031	6047	N/A	N/A	N/A	N/A	CPS	
Thermal Far Corr. (Tank)	2793	2566	N/A	N/A	N/A	N/A	CPS	
CNTC/CFTC (Tank)	2.159	2.357	N/A	N/A	N/A	N/A		
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Accelerometer Calibration								
Before: 9-Mar-2005 13:11								
Z-Axis Acceleration	9.810	N/A	9.814	N/A	N/A	N/A	M/S2	
High resolution Integrated Logging Tool-DTS Master Calibration - Inversion results								
Master: 6-Feb-2005 16:04								
Rho Aluminum	2596	2597	--	--	--	--	K/M3	
Rho Magnesium	1686	1686	--	--	--	--	K/M3	
Pe Aluminum	2.570	2.585	--	--	--	--		
Pe Magnesium	2.650	2.620	--	--	--	--		
High resolution Integrated Logging Tool-DTS Master Calibration - Deviation Summary								
Master: 6-Feb-2005 16:04								
BS Average Deviation	0	0.3633	--	--	--	--	%	
BS Max Deviation	0	0.8726	--	--	--	--	%	
SS Average Deviation	0	0.2896	--	--	--	--	%	
SS Max Deviation	0	0.3813	--	--	--	--	%	
LS Average Deviation	0	0.7166	--	--	--	--	%	
LS Max Deviation	0	1.854	--	--	--	--	%	
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01								
Before: 9-Mar-2005 13:20								
HRLT M0-M1 Voltage Plus - 0	0	N/A	-316.4	N/A	N/A	9.681	UV	
HRLT M0-M1 Voltage Plus - 1	0	N/A	-326.5	N/A	N/A	9.681	UV	
HRLT M0-M1 Voltage Plus - 2	0	N/A	-323.8	N/A	N/A	9.681	UV	
HRLT M0-M1 Voltage Plus - 3	0	N/A	-328.3	N/A	N/A	9.681	UV	
HRLT M0-M1 Voltage Plus - 4	0	N/A	-314.2	N/A	N/A	9.681	UV	
HRLT M0-M1 Voltage Plus - 5	0	N/A	-320.9	N/A	N/A	9.681	UV	
HRLT M0-M1 Voltage Plus - 6	0	N/A	314.5	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: 9-Mar-2005 13:20								
HRLT M1-M2 Voltage Plus - 0	0	N/A	1681	N/A	N/A	53.42	UV	
HRLT M1-M2 Voltage Plus - 1	0	N/A	1736	N/A	N/A	53.42	UV	
HRLT M1-M2 Voltage Plus - 2	0	N/A	1718	N/A	N/A	53.42	UV	
HRLT M1-M2 Voltage Plus - 3	0	N/A	1741	N/A	N/A	53.42	UV	
HRLT M1-M2 Voltage Plus - 4	0	N/A	1668	N/A	N/A	53.42	UV	
HRLT M1-M2 Voltage Plus - 5	0	N/A	1706	N/A	N/A	53.42	UV	
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1679	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: 9-Mar-2005 13:20								
HRLT M2-M3 Voltage Plus - 0	0	N/A	1680	N/A	N/A	53.42	UV	
HRLT M2-M3 Voltage Plus - 1	0	N/A	1744	N/A	N/A	53.42	UV	
HRLT M2-M3 Voltage Plus - 2	0	N/A	1728	N/A	N/A	53.42	UV	
HRLT M2-M3 Voltage Plus - 3	0	N/A	1755	N/A	N/A	53.42	UV	
HRLT M2-M3 Voltage Plus - 4	0	N/A	1677	N/A	N/A	53.42	UV	
HRLT M2-M3 Voltage Plus - 5	0	N/A	1715	N/A	N/A	53.42	UV	
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1676	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: 9-Mar-2005 13:20								
HRLT A3-A4 Voltage Plus - 0	0	N/A	67990	N/A	N/A	2100	UV	
HRLT A3-A4 Voltage Plus - 1	0	N/A	70540	N/A	N/A	2100	UV	
HRLT A3-A4 Voltage Plus - 2	0	N/A	70100	N/A	N/A	2100	UV	
HRLT A3-A4 Voltage Plus - 3	0	N/A	71450	N/A	N/A	2100	UV	
HRLT A3-A4 Voltage Plus - 4	0	N/A	68150	N/A	N/A	2100	UV	
HRLT A3-A4 Voltage Plus - 5	0	N/A	69680	N/A	N/A	2100	UV	
HRLT A3-A4 Voltage Plus - 6	0	N/A	-66840	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: 9-Mar-2005 13:20								
HRLT A4-A5 Voltage Plus - 0	0	N/A	67990	N/A	N/A	2100	UV	
HRLT A4-A5 Voltage Plus - 1	0	N/A	70370	N/A	N/A	2100	UV	
HRLT A4-A5 Voltage Plus - 2	0	N/A	69980	N/A	N/A	2100	UV	
HRLT A4-A5 Voltage Plus - 3	0	N/A	71380	N/A	N/A	2100	UV	
HRLT A4-A5 Voltage Plus - 4	0	N/A	68130	N/A	N/A	2100	UV	
HRLT A4-A5 Voltage Plus - 5	0	N/A	69660	N/A	N/A	2100	UV	
HRLT A4-A5 Voltage Plus - 6	0	N/A	-66680	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: 9-Mar-2005 13:20								
HRLT A5-A6 Voltage Plus - 0	0	N/A	68110	N/A	N/A	2100	UV	
HRLT A5-A6 Voltage Plus - 1	0	N/A	70750	N/A	N/A	2100	UV	
HRLT A5-A6 Voltage Plus - 2	0	N/A	70280	N/A	N/A	2100	UV	
HRLT A5-A6 Voltage Plus - 3	0	N/A	71610	N/A	N/A	2100	UV	
HRLT A5-A6 Voltage Plus - 4	0	N/A	68280	N/A	N/A	2100	UV	
HRLT A5-A6 Voltage Plus - 5	0	N/A	69800	N/A	N/A	2100	UV	
HRLT A5-A6 Voltage Plus - 6	0	N/A	-67040	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: 9-Mar-2005 13:20								
HRLT Torpedo-M0 Voltage - 0	0	N/A	-67600	N/A	N/A	2100	UV	
HRLT Torpedo-M0 Voltage - 1	0	N/A	-70560	N/A	N/A	2100	UV	
HRLT Torpedo-M0 Voltage - 2	0	N/A	-70100	N/A	N/A	2100	UV	
HRLT Torpedo-M0 Voltage - 3	0	N/A	-71480	N/A	N/A	2100	UV	
HRLT Torpedo-M0 Voltage - 4	0	N/A	-68170	N/A	N/A	2100	UV	
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69690	N/A	N/A	2100	UV	
HRLT Torpedo-M0 Voltage - 6	0	N/A	66830	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: 9-Mar-2005 13:20								
HRLT Bridle#9-M0 Voltage - 0	0	N/A	-67630	N/A	N/A	2100	UV	
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-70650	N/A	N/A	2100	UV	
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-70170	N/A	N/A	2100	UV	

HRLT Bridge#9-M0 Voltage - 3	0	N/A	-71550	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 4	0	N/A	-68220	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 5	0	N/A	-69730	N/A	N/A	2100	UV
HRLT Bridge#9-M0 Voltage - 6	0	N/A	-66910	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: 9-Mar-2005 13:20							
HRLT Source Current Plus - 0	0	N/A	282.2	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: 9-Mar-2005 13:20							
HRLT Vertical Voltage PI - 0	0	N/A	-318.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-320.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-316.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-319.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-303.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-324.9	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	320.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV
Litho Density - D Wellsite Calibration - Background Measurement							
Master: 6-Feb-2005 16:40 Before: 22-Feb-2005 12:55							
LL Background	20.00	15.47	15.55	N/A	N/A	1.000	CPS
LU Background	76.00	58.80	58.49	N/A	N/A	1.000	CPS
LS Background	57.00	44.87	44.80	N/A	N/A	1.000	CPS
LTH Background	5.500	4.459	4.341	N/A	N/A	0.3000	CPS
SS1 Background	16.00	14.36	14.38	N/A	N/A	0.5000	CPS
SS2 Background	11.00	9.763	9.721	N/A	N/A	0.5000	CPS
Litho Density - D Wellsite Calibration - Tool Quality Control Information HV							
Master: 6-Feb-2005 16:40 Before: 22-Feb-2005 12:55							
LSHV Background	1500	1405	1403	N/A	N/A	N/A	V
SSHV Background	1500	1289	1293	N/A	N/A	N/A	V
Litho Density - D Wellsite Calibration - Detectors Resolution From BKG Measurements							
Master: 6-Feb-2005 16:40 Before: 22-Feb-2005 12:55							
LS Resolution Background	8.000	8.467	8.510	N/A	N/A	N/A	
SS Resolution Background	8.000	8.566	8.593	N/A	N/A	N/A	
Litho Density - D Wellsite Calibration - Caliper Calibration							
Before: 22-Feb-2005 12:52							
Caliper Small Ring	203.2	N/A	171.1	N/A	N/A	N/A	MM
Caliper Large Ring	304.8	N/A	277.5	N/A	N/A	N/A	MM
Litho Density - D Master Calibration - Aluminum Measurement							
Master: 6-Feb-2005 17:14							
LL Aluminum	90.00	80.84	--	--	--	--	CPS
LU Aluminum	135.0	119.1	--	--	--	--	CPS
LS Aluminum	155.0	140.4	--	--	--	--	CPS
LTH Aluminum	50.00	49.94	--	--	--	--	CPS
SS1 Aluminum	175.0	162.1	--	--	--	--	CPS
SS2 Aluminum	260.0	232.9	--	--	--	--	CPS
Litho Density - D Master Calibration - Litholog Measurement							
Master: 6-Feb-2005 16:59							
LL Iron	80.00	77.30	--	--	--	--	CPS
LU Iron	120.0	113.9	--	--	--	--	CPS
LS Iron	135.0	134.3	--	--	--	--	CPS
LTH Iron	30.00	34.31	--	--	--	--	CPS
SS1 Iron	155.0	154.3	--	--	--	--	CPS
SS2 Iron	245.0	222.2	--	--	--	--	CPS
Litho Density - D Master Calibration - Spectrum Quality Ratios							
Master: 6-Feb-2005 17:15							
QRLS Calculated	0.6500	0.6787	--	--	--	--	
QRSS Calculated	0.7200	0.6962	--	--	--	--	
QRLI Calculated	0.3900	0.3557	--	--	--	--	
QLIR Calculated	1.390	1.392	--	--	--	--	
QR Calculated	1.000	0.9952	--	--	--	--	
The GLS-VJ source activity is acceptable.							
The HGNS Neutron Master Calibration was done with the following parameters :							
NCT-B Water Temperature	16.7	DEGC.					
Thermal Housing Size	85.725	MM.					
NSR-F serial number	2516						

High resolution Integrated Logging Tool-DTS / Equipment Identification			
Primary Equipment:			
HILT high-Resolution Mechanical Sonde	HRMS - B	908	
HILT Rxo Gamma-ray Device	HRGD - B	1860	
HILT Micro Cylindrically Focused Log Dev	MCFL -		
GR Logging Source	GLS - VJ	1904	
HILT High Res. Control Cartridge	HRCC - B	915	
HILT Gamma-Ray Neutron Sonde-DTS	HGNS - B	1934	
HILT Gamma-Ray Device	HGR -		
HILT Neutron Detector with Alpha Source	HCNT -		
Auxiliary Equipment:			
Neutron Calibration Tank	NCT - B		
Gamma Source Radioactive	GSR - U/Y		

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Stab Measurement Summary							
Phase	BS Window Ratio	Value	Phase	SS Window Ratio	Value	Phase	LS Window Ratio
Before		0.7472	Before		0.4821	Before	
	0.7170 (Minimum) 0.7547 (Nominal) 0.7925 (Maximum)			0.4551 (Minimum) 0.4791 (Nominal) 0.5030 (Maximum)			0.2911 (Minimum) 0.3064 (Nominal) 0.3217 (Maximum)
Phase	BS Window Sum CPS	Value	Phase	SS Window Sum CPS	Value	Phase	LS Window Sum CPS
Before		10990	Before		10860	Before	
	10460 (Minimum) 11010 (Nominal) 11560 (Maximum)			10340 (Minimum) 10880 (Nominal) 11430 (Maximum)			1161 (Minimum) 1222 (Nominal) 1283 (Maximum)
Before: 22-Feb-2005 12:53							

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
Before		1845	Before		1932	Before	
	1704 (Minimum) 1804 (Nominal) 1904 (Maximum)			1873 (Minimum) 1973 (Nominal) 2073 (Maximum)			1866 (Minimum) 1966 (Nominal) 2066 (Maximum)
Before: 22-Feb-2005 12:53							

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 %
Before		11.41	Before		10.37	Before	
	10.16 (Minimum) 11.16 (Nominal) 12.16 (Maximum)			9.961 (Minimum) 10.96 (Nominal) 11.96 (Maximum)			7.932 (Minimum) 8.932 (Nominal) 9.932 (Maximum)
Before: 22-Feb-2005 12:53							

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
Before		3859	Before		3832	Before	
	3565 (Minimum) 3875 (Nominal) 4185 (Maximum)			3524 (Minimum) 3830 (Nominal) 4136 (Maximum)			3524 (Minimum) 3830 (Nominal) 4136 (Maximum)
Before: 22-Feb-2005 12:53							

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		200.4	Before		309.4		
	152.4 (Minimum) 203.2 (Nominal) 254.0 (Maximum)			228.6 (Minimum) 304.8 (Nominal) 381.0 (Maximum)			
Before: 22-Feb-2005 12:51							

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
Before		27.33	Before		179.4	Before	
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			163.1 (Minimum) 179.4 (Nominal) 195.7 (Maximum)			151.0 (Minimum) 166.0 (Nominal) 181.0 (Maximum)
Before: 22-Feb-2005 12:51							

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Zero Measurement							
Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value		
Master		25.18	Master		29.57		
Before		26.37	Before		31.52		
	5.000 (Minimum) 25.18 (Nominal) 40.00 (Maximum)			5.000 (Minimum) 29.57 (Nominal) 40.00 (Maximum)			
Master: 6-Feb-2005 18:07				Before: 22-Feb-2005 12:53			

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)
Master		6047	Master		2566	Master	
	5000 (Minimum) 6031 (Nominal) 7200 (Maximum)			2075 (Minimum) 2793 (Nominal) 3125 (Maximum)			2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)
Master: 6-Feb-2005 18:07							

High resolution Integrated Logging Tool-DTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z-Axis Acceleration M/S2	Value	
Before		9.814	
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)		
Before: 9-Mar-2005 16:11			

High resolution Integrated Logging Tool-DTS Master Calibration							
Inversion results							
Phase	Rho Aluminum K/M3	Value	Phase	Rho Magnesium K/M3	Value		
Master		2597	Master		1686		
	2586 (Minimum) 2593 (Nominal) 2606 (Maximum)			1676 (Minimum) 1686 (Nominal) 1696 (Maximum)			
Phase	Pe Aluminum	Value	Phase	Pe Magnesium	Value		
Master		2.585	Master		2.620		
	2.470 (Minimum) 2.570 (Nominal) 2.670 (Maximum)			2.550 (Minimum) 2.650 (Nominal) 2.750 (Maximum)			
Master: 6-Feb-2005 16:04							

High resolution Integrated Logging Tool-DTS Master Calibration											
Deviation Summary											
Phase	BS Average Deviation %		Value	Phase	SS Average Deviation %		Value	Phase	LS Average Deviation %		Value
Master			0.3633	Master			0.2896	Master			0.7166
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)		-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)
Phase	BS Max Deviation %		Value	Phase	SS Max Deviation %		Value	Phase	LS Max Deviation %		Value
Master			0.8726	Master			0.8813	Master			1.854
	-1.600 (Minimum)	0 (Nominal)	1.600 (Maximum)		-2.500 (Minimum)	0 (Nominal)	2.500 (Maximum)		-3.500 (Minimum)	0 (Nominal)	3.500 (Maximum)

Phase	CNTC Background CPS	Value	25.18	Master	CFTC Background CPS	Value	29.57
Master							
	5.000 (Minimum)	25.18 (Nominal)	40.00 (Maximum)		5.000 (Minimum)	29.57 (Nominal)	40.00 (Maximum)
Master: 6-Feb-2005 18:07							

High resolution Integrated Logging Tool-DTS Master Calibration									
Tank Measurement									
Phase	Thermal Near Corr. (Tank) CPS		Value	Phase	Thermal Far Corr. (Tank) CPS		Value	Phase	CNTC/CFTC (Tank)
Master			6047	Master			2566	Master	
	5000 (Minimum)	6031 (Nominal)	7200 (Maximum)		2075 (Minimum)	2793 (Nominal)	3125 (Maximum)		2.120 (Minimum)
									2.159 (Nominal)
									2.540 (Maximum)
Master: 6-Feb-2005 18:07									

High Resolution Laterolog Array - B / Equipment Identification	
Primary Equipment: HRLT Sonde	HRLS - B
Auxiliary Equipment: HRLT lower Housing HRLT Lower Cartridge HRLT upper Housing HRLT Upper Cartridge	HRLH - B HRLC - B HRLH - B HRUC - B

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT M01						
Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-316.4	-322.7	-274.3	-371.1
1	Before		-326.5	-322.7	-274.3	-371.1
2	Before		-323.8	-322.7	-274.3	-371.1
3	Before		-328.3	-322.7	-274.3	-371.1
4	Before		-314.2	-322.7	-274.3	-371.1
5	Before		-320.9	-322.7	-274.3	-371.1
6	Before		314.5	322.7	371.1	274.3
7	Before		-322.7	-322.7	-274.3	-371.1
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1681	1781	2048	1514
1	Before		1736	1781	2048	1514
2	Before		1718	1781	2048	1514
3	Before		1741	1781	2048	1514
4	Before		1668	1781	2048	1514
5	Before		1706	1781	2048	1514
6	Before		-1679	-1781	-1514	-2048
7	Before		1781	1781	2048	1514
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1680	1781	2048	1514
1	Before		1744	1781	2048	1514
2	Before		1728	1781	2048	1514
3	Before		1755	1781	2048	1514
4	Before		1677	1781	2048	1514
5	Before		1715	1781	2048	1514
6	Before		-1676	-1781	-1514	-2048
7	Before		1781	1781	2048	1514
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3-A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		67990	70000	80500	59500
1	Before		70540	70000	80500	59500
2	Before		70100	70000	80500	59500
3	Before		71450	70000	80500	59500
4	Before		68150	70000	80500	59500
5	Before		69680	70000	80500	59500
6	Before		-66840	-70000	-59500	-80500
7	Before		70000	70000	80500	59500
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4-A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		67990	70000	80500	59500
1	Before		70370	70000	80500	59500
2	Before		69980	70000	80500	59500
3	Before		71380	70000	80500	59500
4	Before		68130	70000	80500	59500
5	Before		69660	70000	80500	59500
6	Before		-66680	-70000	-59500	-80500
7	Before		70000	70000	80500	59500
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5-A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68110	70000	80500	59500
1	Before		70750	70000	80500	59500
2	Before		70280	70000	80500	59500
3	Before		71610	70000	80500	59500
4	Before		68280	70000	80500	59500
5	Before		69800	70000	80500	59500
6	Before		-67040	-70000	-59500	-80500
7	Before		70000	70000	80500	59500
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpecio-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-67600	-70000	-59500	-80500
1	Before		-70560	-70000	-59500	-80500
2	Before		-70100	-70000	-59500	-80500
3	Before		-71480	-70000	-59500	-80500
4	Before		-68170	-70000	-59500	-80500
5	Before		-69690	-70000	-59500	-80500
6	Before		66830	70000	80500	59500
7	Before		-70000	-70000	-59500	-80500
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-67630	-70000	-59500	-80500
1	Before		-70650	-70000	-59500	-80500
2	Before		-70170	-70000	-59500	-80500
3	Before		-71550	-70000	-59500	-80500
4	Before		-68220	-70000	-59500	-80500
5	Before		-69730	-70000	-59500	-80500
6	Before		66910	70000	80500	59500
7	Before		-70000	-70000	-59500	-80500
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		282.2	284.0	326.6	241.4
1	Before		281.1	281.1	323.3	238.9
2	Before		281.1	281.1	323.3	238.9
3	Before		281.1	281.1	323.3	238.9
4	Before		281.1	281.1	323.3	238.9
5	Before		281.1	281.1	323.3	238.9
6	Before		281.1	281.1	323.3	238.9
7	Before		281.1	281.1	323.3	238.9
		(Minimum) (Nominal) (Maximum)				
Before: 9-Mar-2005 16:20						

High Resolution Laterolog Array - B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum

0	Before		-318.2	-322.7	-274.3	-371.1
1	Before		-320.1	-322.7	-274.3	-371.1
2	Before		-316.7	-322.7	-274.3	-371.1
3	Before		-319.7	-322.7	-274.3	-371.1
4	Before		-303.3	-322.7	-274.3	-371.1
5	Before		-324.9	-322.7	-274.3	-371.1
6	Before		320.6	322.7	371.1	274.3
7	Before		-322.7	-322.7	-274.3	-371.1
(Minimum) (Nominal) (Maximum)						

Before: 9-Mar-2005 16:20

Litho Density - D / Equipment Identification			
Primary Equipment:			
Nuclear Services Cartridge	NSC - E	1868	
Powered Gamma Detector	PGD - G	1867	
Gamma Source Radioactive	GSR - J	2043	
Auxiliary Equipment:			
Density Resistivity Sonde	DRS - E	723	
Electronics Cartridge Housing	ECH - MKA	1872	
Powered Detector Housing	PDH - L	3745	

Litho Density - D Wellsite Calibration														
Background Measurement														
Phase	LL Background CPS		Value	Phase	LU Background CPS		Value	Phase	LS Background CPS		Value			
Master			15.47	Master			58.80	Master			44.87			
Before			15.55	Before			58.49	Before			44.80			
15.00 (Minimum)			20.00 (Nominal)	25.00 (Maximum)	58.00 (Minimum)			76.00 (Nominal)	94.00 (Maximum)	43.00 (Minimum)			57.00 (Nominal)	72.00 (Maximum)
Phase	LITH Background CPS		Value	Phase	SS1 Background CPS		Value	Phase	SS2 Background CPS		Value			
Master			4.459	Master			14.36	Master			9.763			
Before			4.341	Before			14.38	Before			9.721			
4.000 (Minimum)			5.500 (Nominal)	7.000 (Maximum)	12.00 (Minimum)			16.00 (Nominal)	19.50 (Maximum)	8.000 (Minimum)			11.00 (Nominal)	13.50 (Maximum)
Master: 6-Feb-2005 16:40				Before: 22-Feb-2005 12:55										

Master: 6-Feb-2005 16:40

Before: 22-Feb-2005 12:55

Litho Density - D Wellsite Calibration							
Detectors Resolution From BKG Measurements							
Phase	LS Resolution Background	Value	Phase	SS Resolution Background	Value		
Master		8.467	Master		8.566		
Before		8.510	Before		8.593		
5.000 (Minimum)		8.000 (Nominal)	11.50 (Maximum)	5.000 (Minimum)		8.000 (Nominal)	11.50 (Maximum)
Master: 6-Feb-2005 16:40				Before: 22-Feb-2005 12:55			

Master: 6-Feb-2005 16:40

Before: 22-Feb-2005 12:55

Litho Density - D Master Calibration																																												
Aluminum Measurement																																												
Phase	LL Aluminum CPS			Value	Phase	LU Aluminum CPS			Value	Phase	LS Aluminum CPS			Value																														
Master				80.84	Master				119.1	Master				140.4																														
70.00 (Minimum)					90.00 (Nominal)					125.0 (Maximum)					100.0 (Minimum)					135.0 (Nominal)					194.0 (Maximum)					120.0 (Minimum)					155.0 (Nominal)					217.0 (Maximum)				
Phase	LITH Aluminum CPS			Value	Phase	SS1 Aluminum CPS			Value	Phase	SS2 Aluminum CPS			Value																														
Master				49.94	Master				162.1	Master				232.9																														
35.00 (Minimum)					50.00 (Nominal)					74.00 (Maximum)					125.0 (Minimum)					175.0 (Nominal)					256.0 (Maximum)					210.0 (Minimum)					260.0 (Nominal)					353.0 (Maximum)				
Master: 6-Feb-2005 17:14																																												

Master: 6-Feb-2005 17:14

Litho Density - D Master Calibration														
Litholog Measurement														
Phase	LL Iron CPS			Value	Phase	LU Iron CPS			Value	Phase	LS Iron CPS			Value
Master				77.30	Master				113.9	Master				134.3
60.00 (Minimum) 80.00 (Nominal) 114.0 (Maximum)					85.00 (Minimum) 120.0 (Nominal) 177.0 (Maximum)					100.0 (Minimum) 135.0 (Nominal) 193.0 (Maximum)				
Phase	LITH Iron CPS			Value	Phase	SS1 Iron CPS			Value	Phase	SS2 Iron CPS			Value
Master				34.31	Master				154.3	Master				222.2
15.00 (Minimum) 30.00 (Nominal) 51.00 (Maximum)					105.0 (Minimum) 155.0 (Nominal) 234.0 (Maximum)					190.0 (Minimum) 245.0 (Nominal) 325.0 (Maximum)				
Master: 6-Feb-2005 16:59														

Master: 6-Feb-2005 16:59

Litho Density - D Master Calibration																
Spectrum Quality Ratios																
Phase	QRLS Calculated		Value	Phase	QRSS Calculated		Value	Phase	QRLI Calculated		Value					
Master			0.6787	Master			0.6962	Master			0.3557					
0.6000 (Minimum)			0.6500 (Nominal)	0.7000 (Maximum)			0.6200 (Minimum)			0.7200 (Nominal)	0.8200 (Maximum)	0.2900 (Minimum)			0.3900 (Nominal)	0.4500 (Maximum)
Phase	QLIR Calculated		Value	Phase	QR Calculated		Value									
Master			1.392	Master			0.9952									
1.290 (Minimum)			1.390 (Nominal)	1.450 (Maximum)			0.9800 (Minimum)					1.000 (Nominal)	1.020 (Maximum)			
Master: 6-Feb-2005 17:15																

Master: 6-Feb-2005 17:15

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