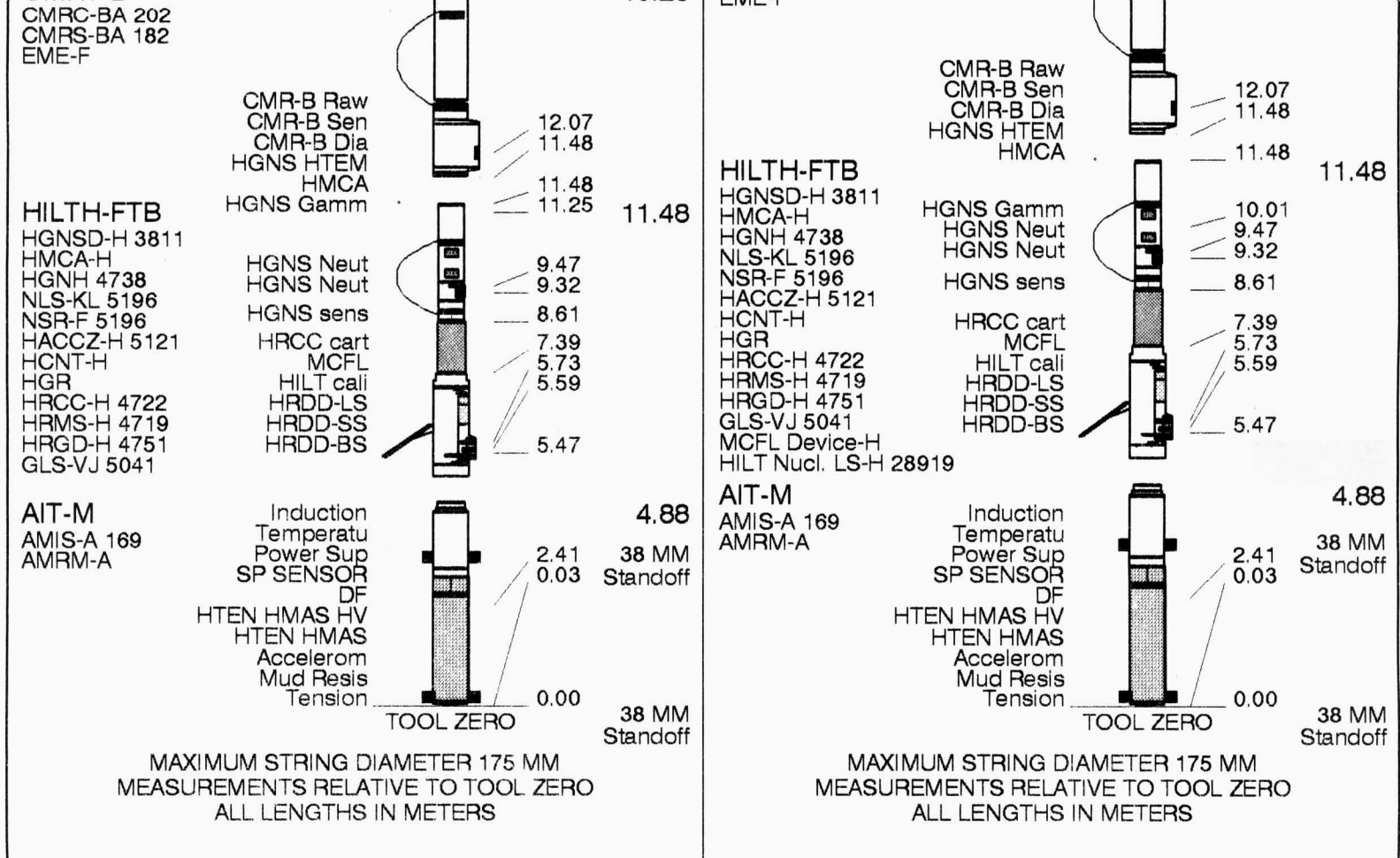
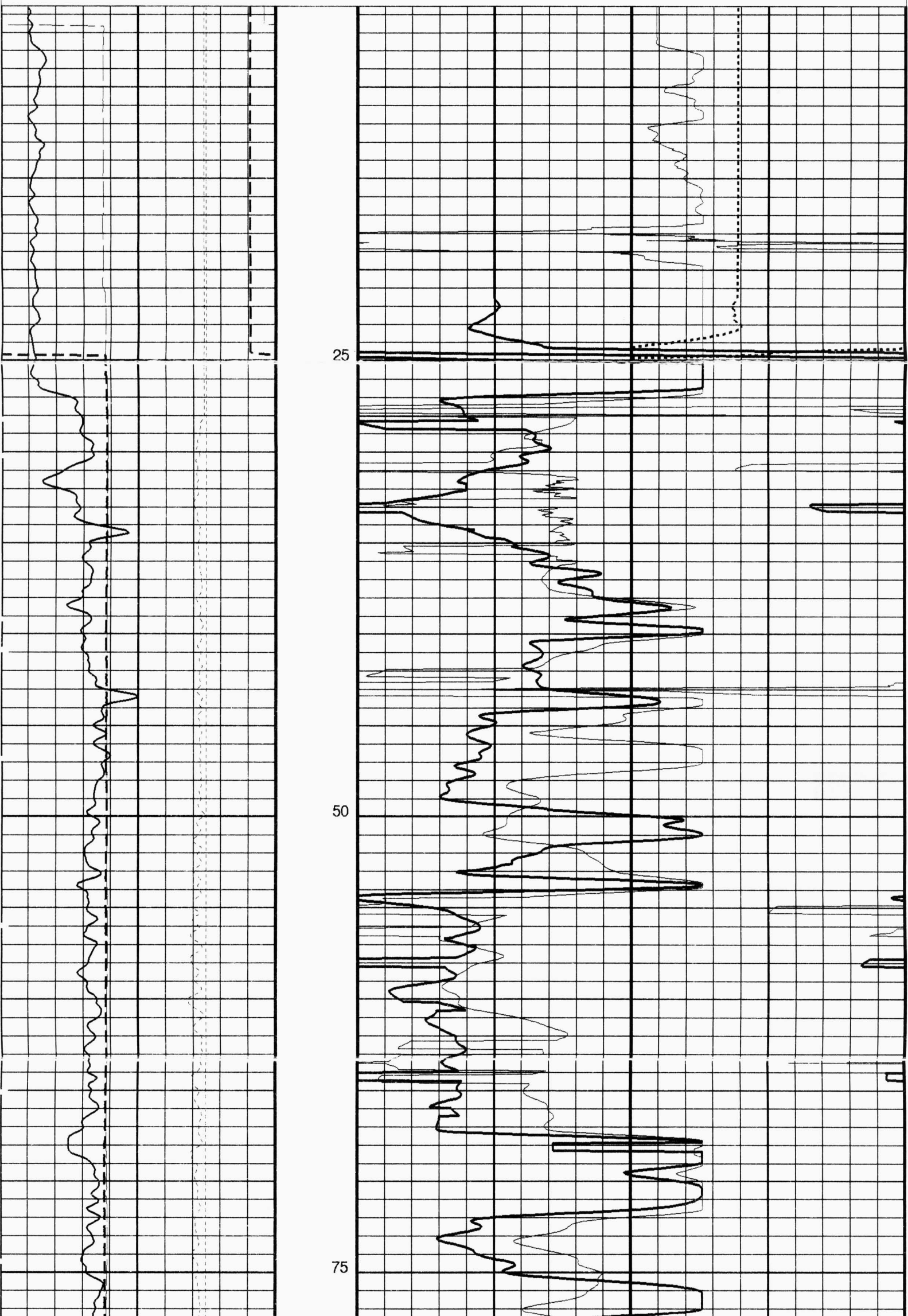
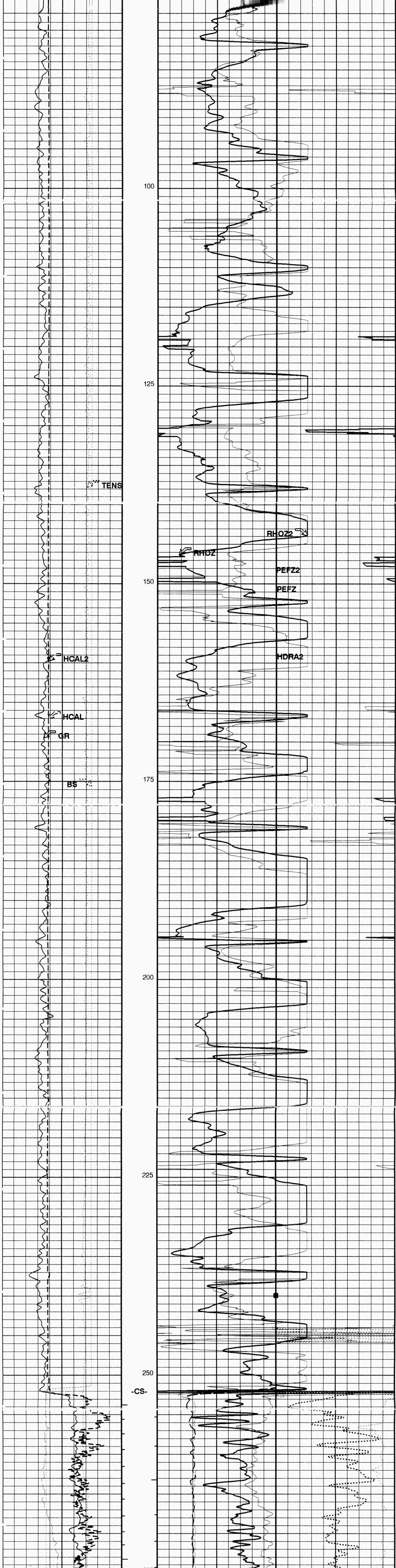


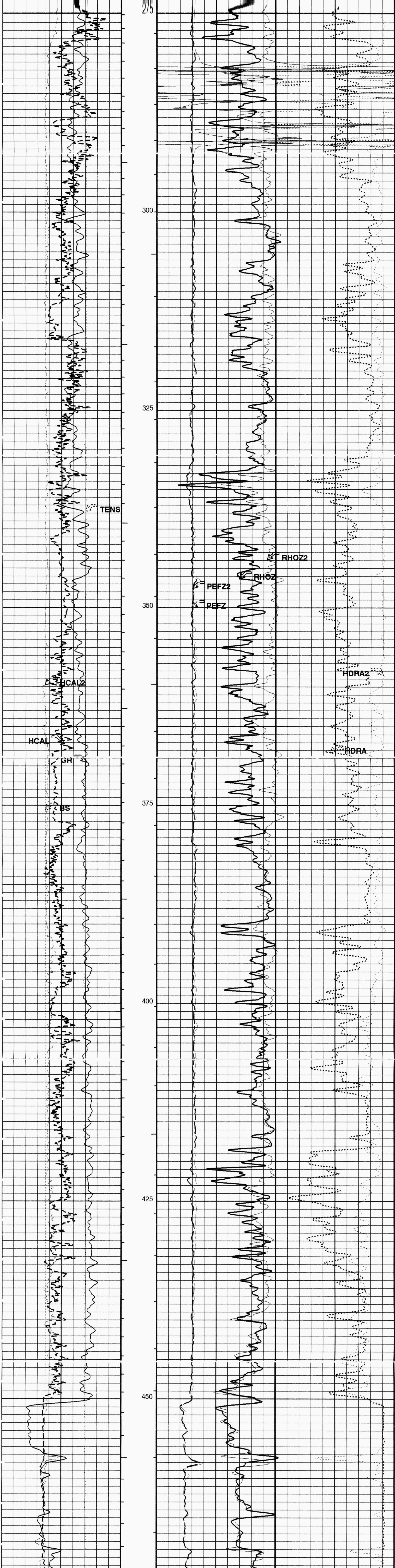
RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
GSR-U/Y NCT-B CNB-AB NCS-VB	WITM (DTS)-A		GSR-U/Y NCT-B CNB-AB NCS-VB	WITM (DTS)-A	
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
LEH-QT 2657 LEH-QT 2657		30.79	LEH-QT 2657 LEH-QT 2657		28.80
DTC-H 9397 ECH-KC 10485	CTEM TelStatus ToolStatus	29.90	DTC-H 9397 ECH-KC 10485	CTEM TelStatus ToolStatus	27.91
SGT-N SGH-K 3161 SGC-TB 10388	Gamma Ray	28.98	SGT-N SGH-K 3161 SGC-TB 10388 SGD-TAB	Gamma Ray	27.00
HILTH2-FTB HTBCD2-H2 3733 HMCA-H HRCC-H2 3990 HRMS-H2 3983 HRGD-H2 4709 GLS-VJ2 1984 MCFL2 Device-H2 HILT2 Nucl. LS-H2 28842	HMCA2 HRCC2 car MCFL HILT cali HRDD2-LS HRDD2-SS HRDD2-BS	27.31	HILTH2-FTB HTBCD2-H2 3733 HMCA-H HRCC-H2 3990 HRMS-H2 3983 HRGD-H2 4709 GLS-VJ2 1984 MCFL2 Device-H2 HILT2 Nucl. LS-H2 28842 HILT2 Nucl. SS-H2 27903	HMCA2 HRCC2 car MCFL HILT cali HRDD2-LS HRDD2-SS HRDD2-BS	25.32
AH-90 DEG OFFSET		22.97	AH-90 DEG OFFSET		20.98
PPC1-B PPC1-B 8149 PPC_CAL_STD 8149	Calipers PPC_Cartr	22.53	AH-184 3800		20.54
AH-184 3800		20.54	AH-184 2713		19.93
AH-184 2713		19.93	ECC-B ECH-A 373	ECC Statu	19.32
ECC-B ECH-A 373	ECC Statu	19.32	ECS-A 20 ECS-A 20 NSR-F 1498 ECSD-A 20	Detector	18.25
ECS-A 20 ECS-A 20 NSR-F 1498 ECSD-A 20	Detector	18.25	CMRT-B CMRC-BA 202 CMRS-BA 182 EMF-F		16.23

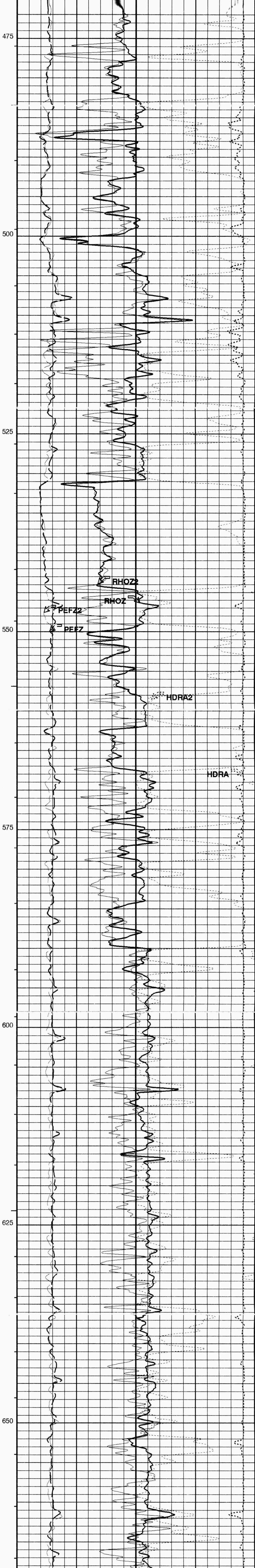
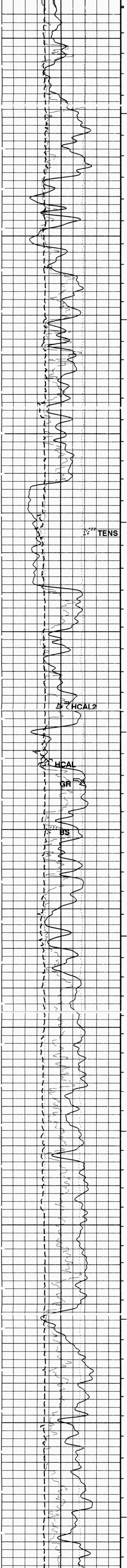


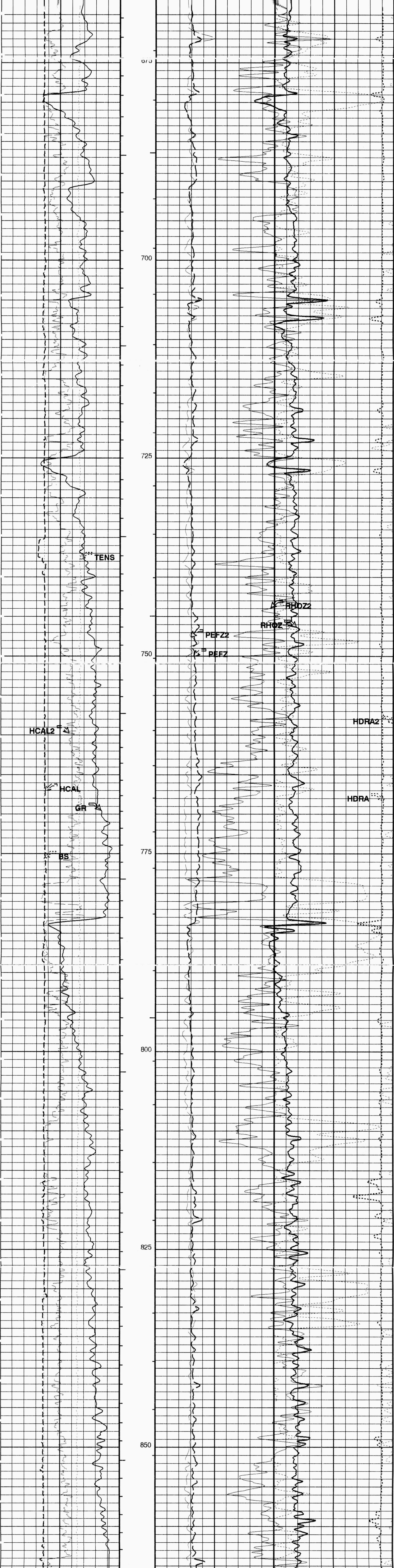
Input DLIS Files				
DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21 889.7 M 3.2 M
Integrated Hole/Cement Volume Summary				
Hole Volume = 26.08 M3				
Cement Volume = 10.29 M3 (assuming 177.80 MM casing O.D.)				
Computed from 888.2 M to 252.1 M using data channel(s) HCAL HCAL2				
OP System Version: 15C0-309				
MCM				
AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007	
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL	
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007	
SGT-N	15C0-309	DTC-H	9397	
Changed Parameter Summary				
DLIS Name	New Value	Previous Value	Depth & Time	
BS	311.000 MM	216.000 MM	251.6 04:53:27	
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)				
20000 (N)		0		
Caliper (HCAL)				
125 (MM)		375		
Gamma Ray (GR)				
0 (GAPI)		150		
HILT Caliper (HCAL2)				
125 (MM)		375		
Bit Size (BS)				
125 (MM)		375		
Std. Res. Formation Density (RHOZ2)				
2000		(K/M3)		3000
Std. Res. Formation Density (RHOZ)				
2000		(K/M3)		3000
Std. Res. Formation Pe (PEFZ2)		Density Correction (HDRA2)		
0 (----	10	450	(K/M3)	-50
Std. Res. Formation Pe (PEFZ)		Density Correction (HDRA)		
0 (----	10	450	(K/M3)	-50
MAIN PASS: *** DENSITY - SANDSTONE 2650 KG/M3***				

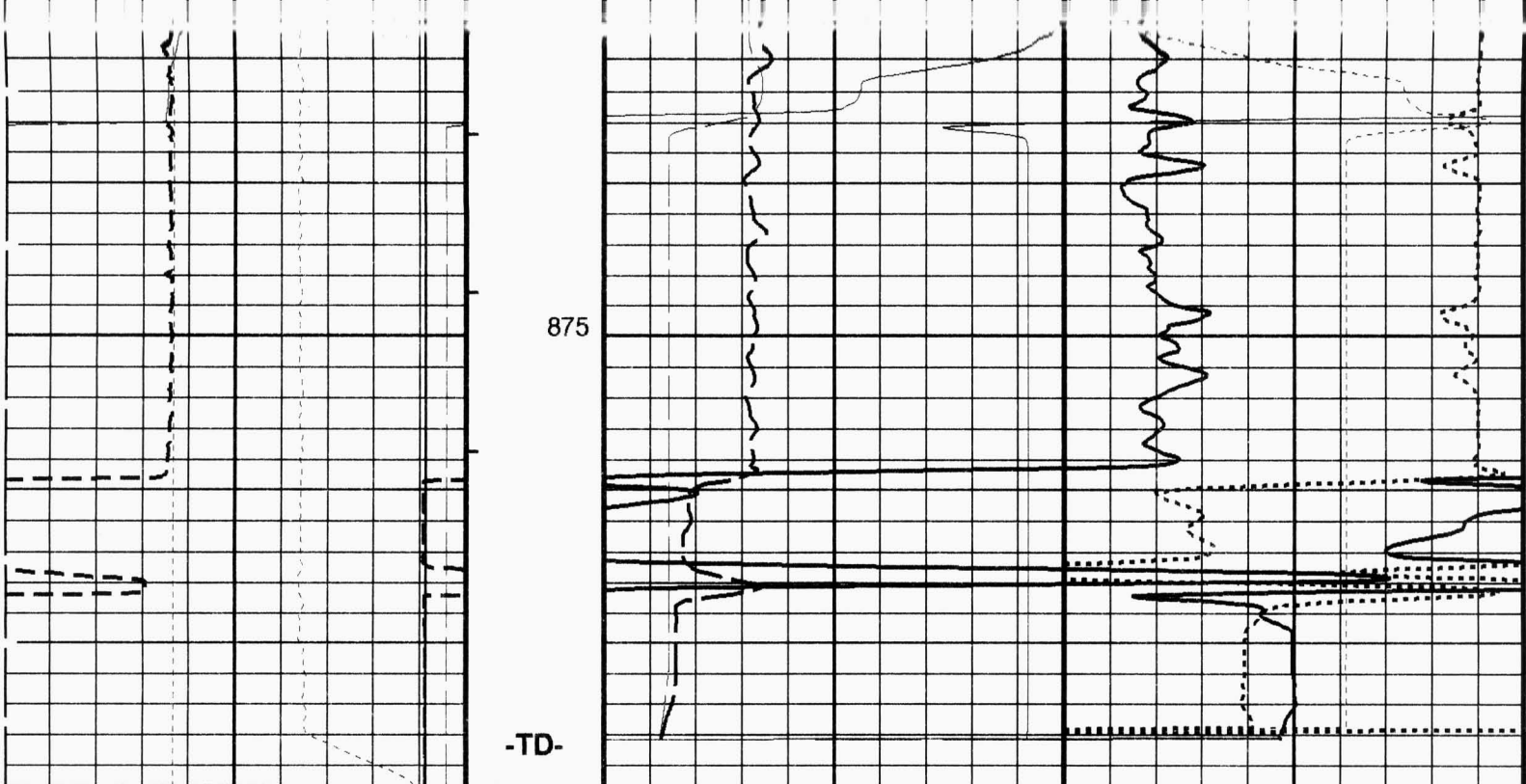












MAIN PASS: *** DENSITY - SANDSTONE 2650 KG/M3***

Bit Size (BS)			Std. Res. Formation Pe (PEFZ)		Density Correction (HDRA)	
125	(MM)	375	0	(----	10 450	(K/M3) -50
HILT Caliper (HCAL2)			Std. Res. Formation Pe (PEFZ2)		Density Correction (HDRA2)	
125	(MM)	375	0	(----	10 450	(K/M3) -50
Gamma Ray (GR)			Std. Res. Formation Density (RHOZ)			
0	(GAPI)	150	2000	(K/M3) 3000		
Caliper (HCAL)			Std. Res. Formation Density (RHOZ2)			
125	(MM)	375	2000	(K/M3) 3000		
Tension (TENS)						
20000	(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
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
GCLF2	Germany Coal-like Formation Option	NO
NAAC2	HRDD2 APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM2	HRDD2 Processing Mode	HiRes
NSAR2	HRDD2 Depth Sampling Rate	25.4 MM
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0 M
TIMD	Along-hole depth of Tie-in Point	260 M
TIVD	TVD of Tie-in Point	260 M
HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	177.8 MM
HVCS	Integrated Hole Volume Caliper Selection	HCAL/HCAL2
System and Miscellaneous		
BS	Bit Size	216.000 MM
DFD	Drilling Fluid Density	1095.00 K/M3
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL
TD	Total Depth	888.3 M

Format: DENS Vertical Scale: 1:240

Graphics File Created: 19-Mar-2008 04:46

OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21	889.7 M	3.2 M
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Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21	889.7 M	3.2 M
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Integrated Hole/Cement Volume Summary

Hole Volume = 26.08 M3

Cement Volume = 10.29 M3 (assuming 177.80 MM casing O.D.)

Computed from 888.2 M to 252.1 M using data channel(s) HCAL HCAL2

OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
BHS	CASED	OPEN	251.6 04:53:31
BS	311.000 MM	216.000 MM	251.6 04:53:27
CCCC	YES	NO	251.6 04:53:35

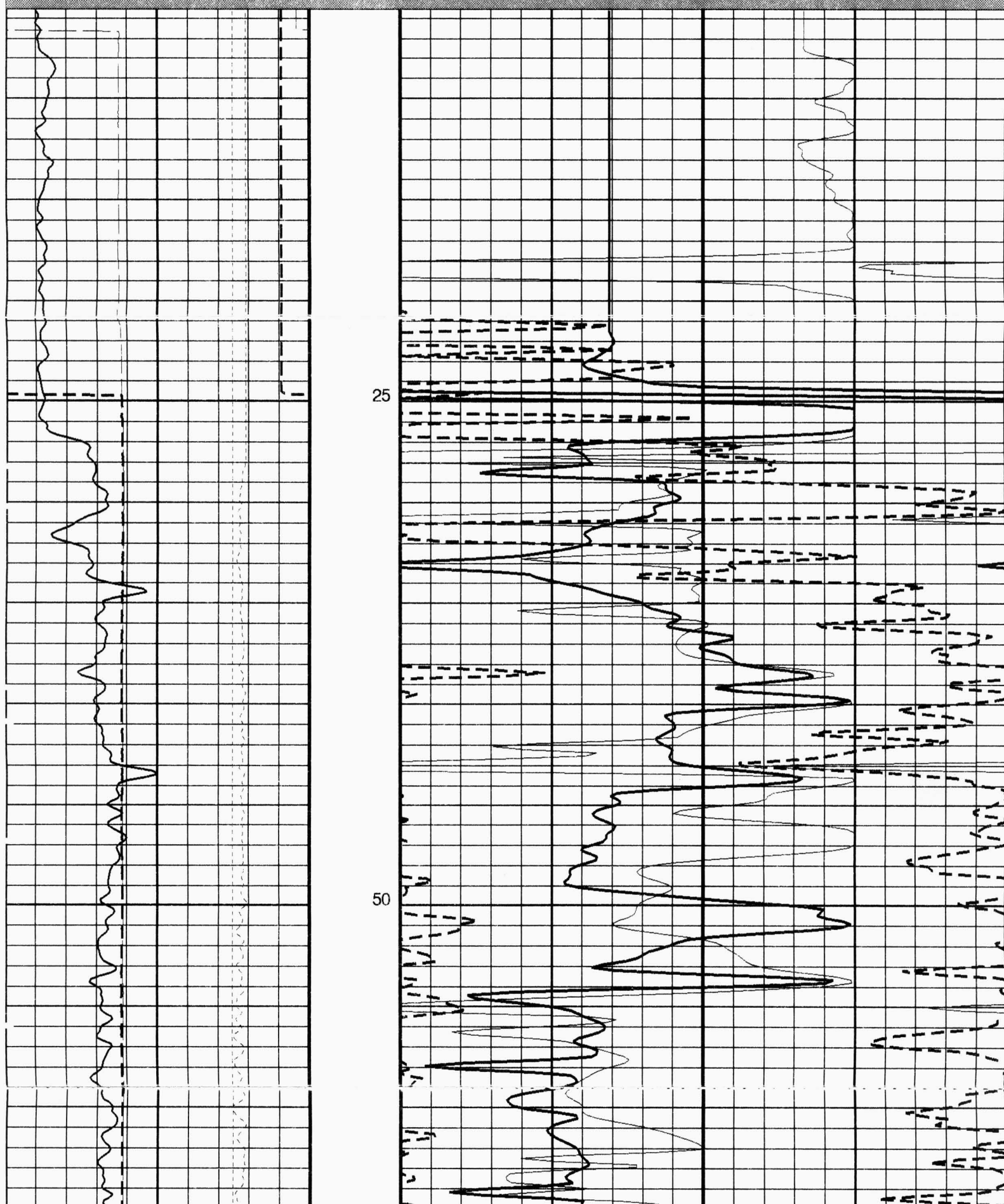
PIP SUMMARY

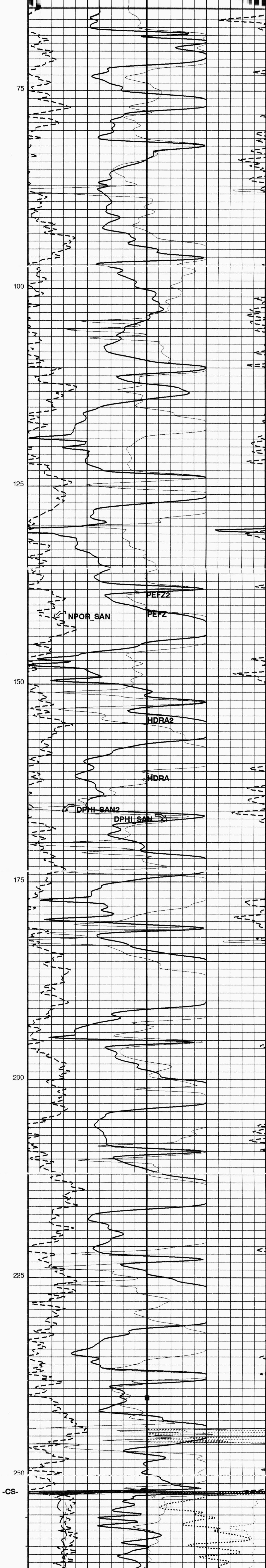
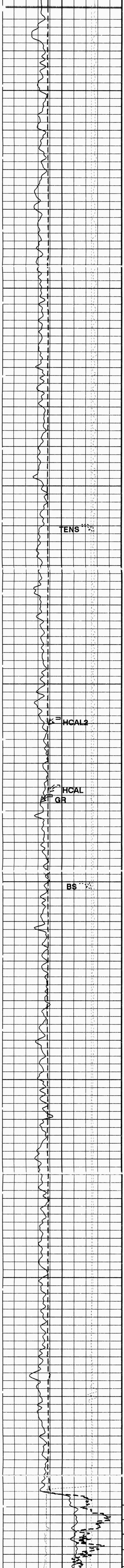
- └ Integrated Cement Volume Major Pip Every 1 M3
- └ Integrated Cement Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
- └ Integrated Hole Volume Minor Pip Every 0.1 M3

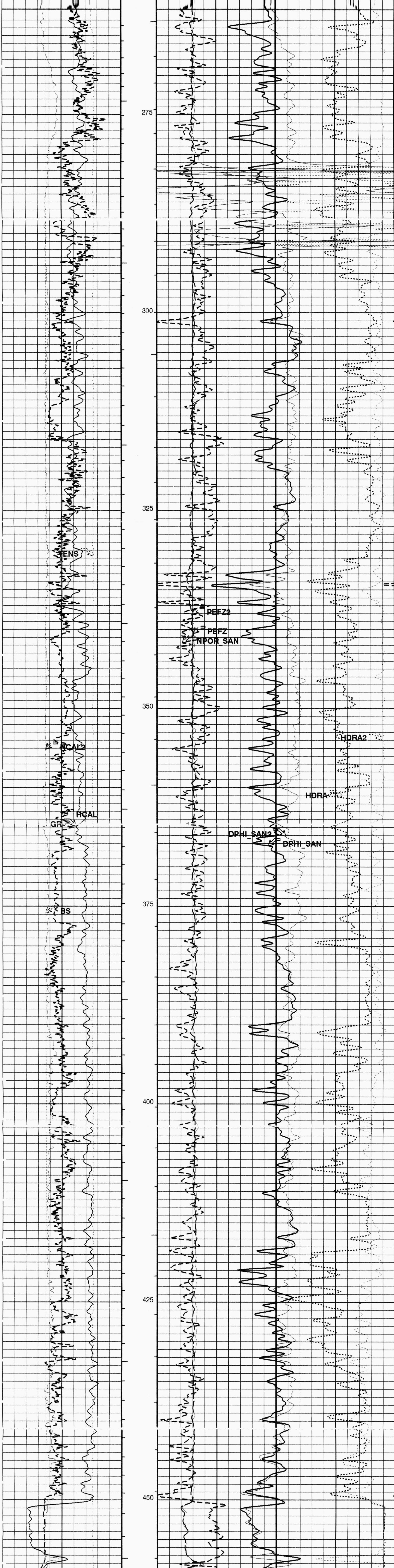
Time Mark Every 60 S

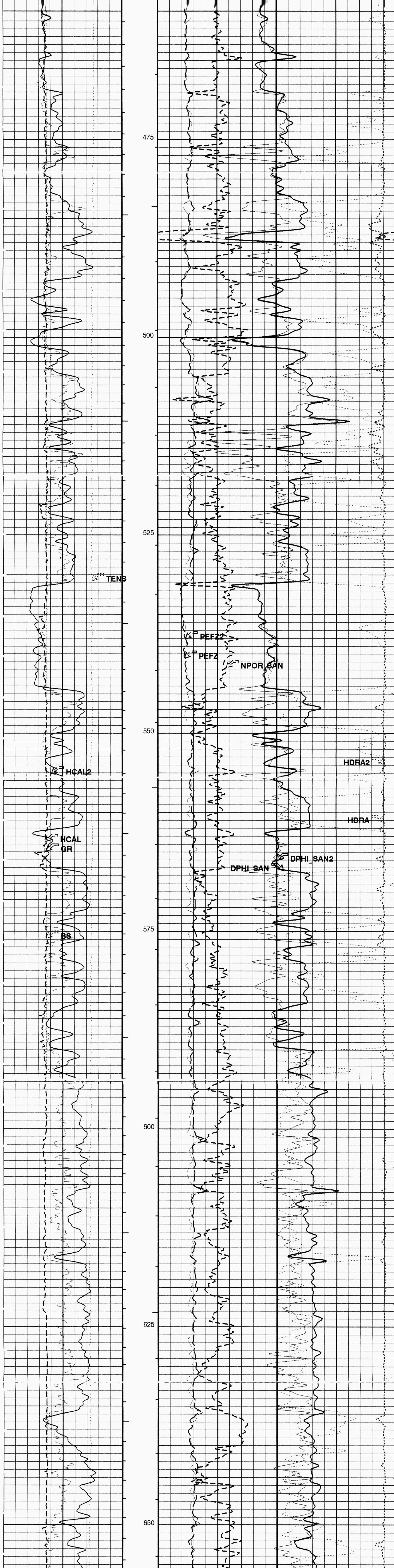
Tension (TENS) 25000 (N)		0	Std. Res. Formation Pe (PEFZ2)		10 450	Density Correction (HDRA2)		-50
Caliper (HCAL) (MM)		375	Std. Res. Formation Pe (PEFZ)		10 450	Density Correction (HDRA)		-50
Gamma Ray (GR) (GAPI)		150	NPOR for SAND (NPOR_SAN)		0.45	DPHI2 for SAND (DPHI_SAN2)		-0.15
HILT Caliper (HCAL2) (MM)		375	DPHI for SAND (DPHI_SAN)		0.45	DPHI2 for SAND (DPHI_SAN2)		-0.15
Bit Size (BS) (MM)		375	DPHI for SAND (DPHI_SAN)		0.45	DPHI2 for SAND (DPHI_SAN2)		-0.15

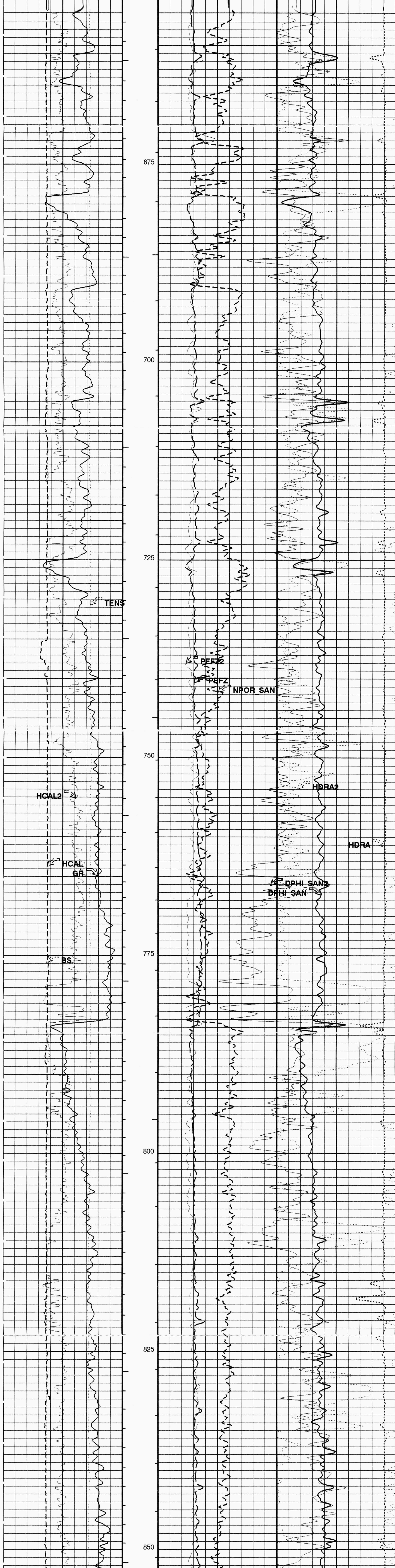
MAIN PASS: ***PEX DENSITY POROSITY - SANDSTONE 2650 KG/M3 ***

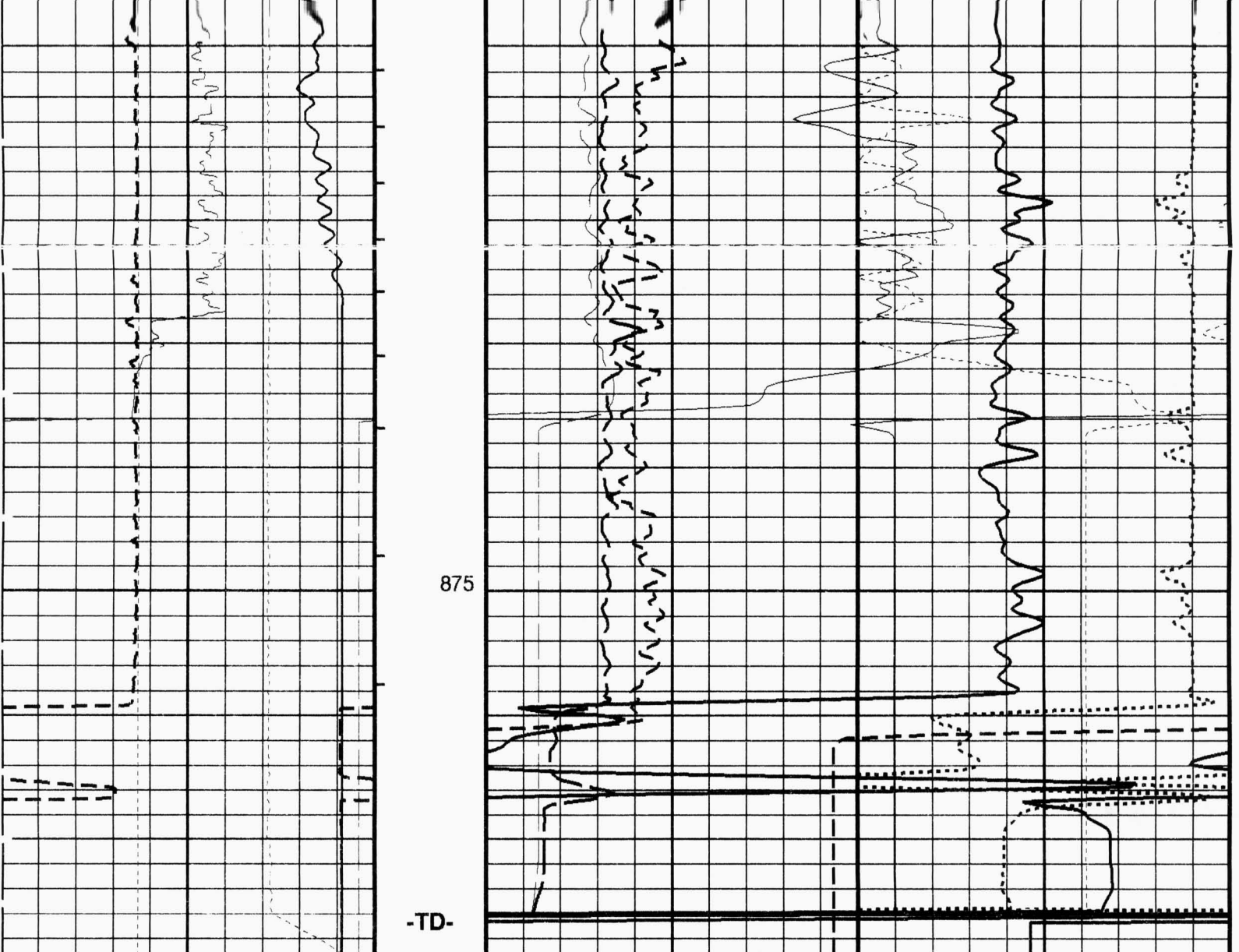












MAIN PASS: ***PEX DENSITY POROSITY - SANDSTONE 2650 KG/M3 ***

Bit Size (BS) (MM)		DPHI for SAND (DPHI_SAN)	
125	375	0.45	(V/V) -0.15
HILT Caliper (HCAL2) (MM)		DPHI2 for SAND (DPHI_SAN2)	
125	375	0.45	(V/V) -0.15
Gamma Ray (GR) (GAPI)		NPOR for SAND (NPOR_SAN)	
0	150	0.45	(V/V) -0.15
Caliper (HCAL) (MM)		Std. Res. Formation Pe (PEFZ)	Density Correction (HDRA)
125	375	0 10 450	(K/M3) -50
Tension (TENS) 25000 (N) 0		Std. Res. Formation Pe (PEFZ2)	Density Correction (HDRA2)
		0 10 450	(K/M3) -50

PIP SUMMARY

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

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
AIT-M: Array Induction Tool - M		
BHS	Borehole Status	OPEN
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
FD	Fluid Density	1000 K/M3
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCLF	Germany Coal-like Formation Option	NO
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HSCO	Hole Size Correction Option	YES
MCCO	Mud Cake Correction Option	NO
MCOR	Mud Correction	NATU
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
SOCN	Standoff Distance	3.175 MM
SOCO	Standoff Correction Option	YES
CMRT-B: Combinable Magnetic Resonance Tool - B		
BHS	Borehole Status	OPEN
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
FD	Fluid Density	1000 K/M3
FSAL	Formation Salinity	NO
FSCO	Formation Salinity Correction Option	NO
GCLF2	Germany Coal-like Formation Option	NO
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HSCO	Hole Size Correction Option	YES
MCCO	Mud Cake Correction Option	NO
MCOR	Mud Correction	NATU
MWCO	Mud Weight Correction Option	NO
NAAC2	HRDD2 APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM2	HRDD2 Processing Mode	HiRes
NSAR2	HRDD2 Depth Sampling Rate	25.4 MM
PTCO	Pressure/Temperature Correction Option	NO
SDAT	Standoff Data Source	SOCN
SOCN	Standoff Distance	3.175 MM
SOCO	Standoff Correction Option	YES
SGT-N: Scintillation Gamma Ray Tool - N		
BHS	Borehole Status	OPEN
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0 M
TIMD	Along-hole depth of Tie-in Point	260 M
TIVD	TVD of Tie-in Point	260 M
HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN
FCD	Future Casing (Outer) Diameter	177.8 MM
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HVCS	Integrated Hole Volume Caliper Selection	HCAL/HCAL2
STI: Stuck Tool Indicator		
TDL	Total Depth - Logger	888.30 M
System and Miscellaneous		
BS	Bit Size	215.000 MM
BSAL	Borehole Salinity	-50000.00 PPM
CSIZ	Current Casing Size	244.500 MM
CWEI	Casing Weight	69.94 KG/M
DFD	Drilling Fluid Density	1095.00 K/M3
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
MST	Mud Sample Temperature	21.83 DEGC
PP	Playback Processing	NORMAL
RMFS	Resistivity of Mud Filtrate Sample	1.8440 OHMM
TD	Total Depth	888.3 M

Format: PORO Vertical Scale: 1:240

Graphics File Created: 19-Mar-2008 04:46

OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21	889.7 M	3.2 M
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Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21	889.7 M	3.2 M
DEFAULT	AIT_TLD_MCFL_CNL_091PUP	FN:150	PRODUCER	19-Mar-2008 01:13	890.5 M	433.9 M

OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397

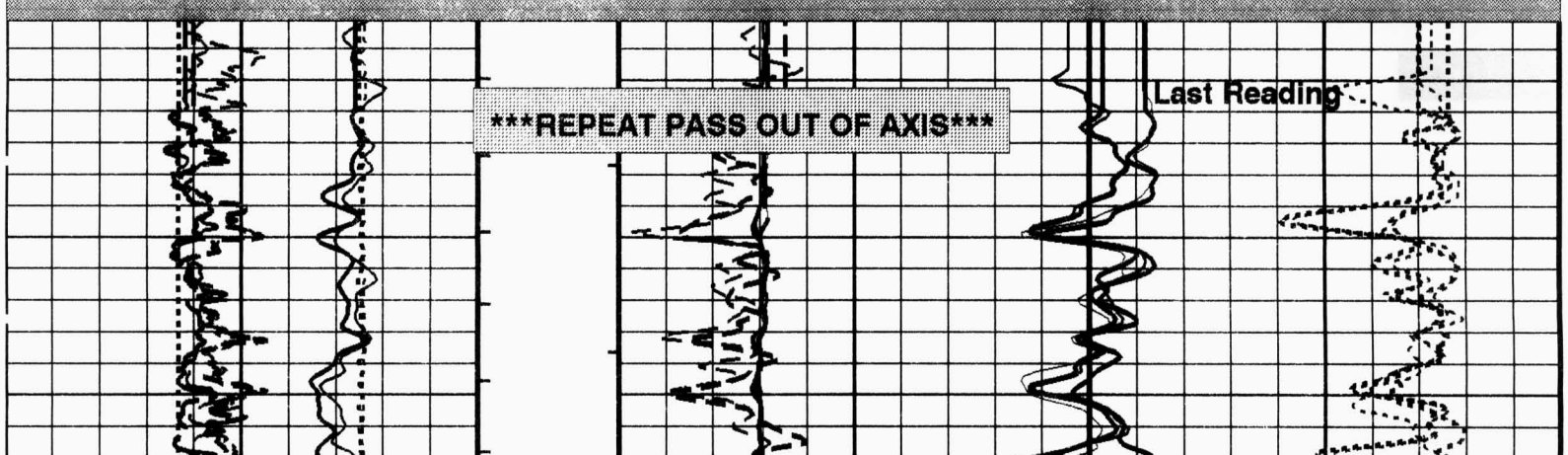
PIP SUMMARY

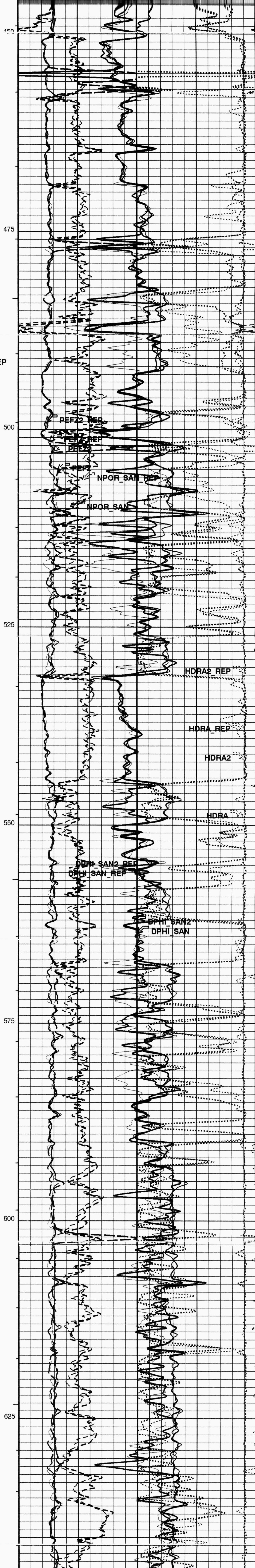
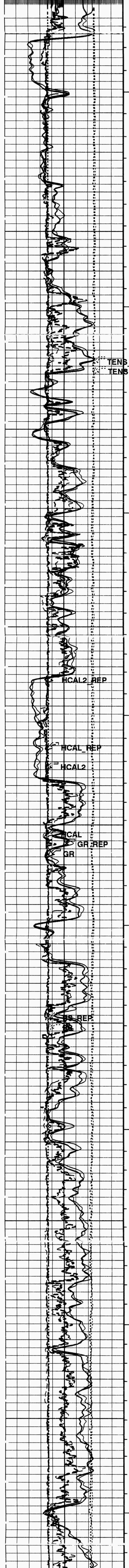
- Integrated Cement Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Hole Volume Minor Pip Every 0.1 M3

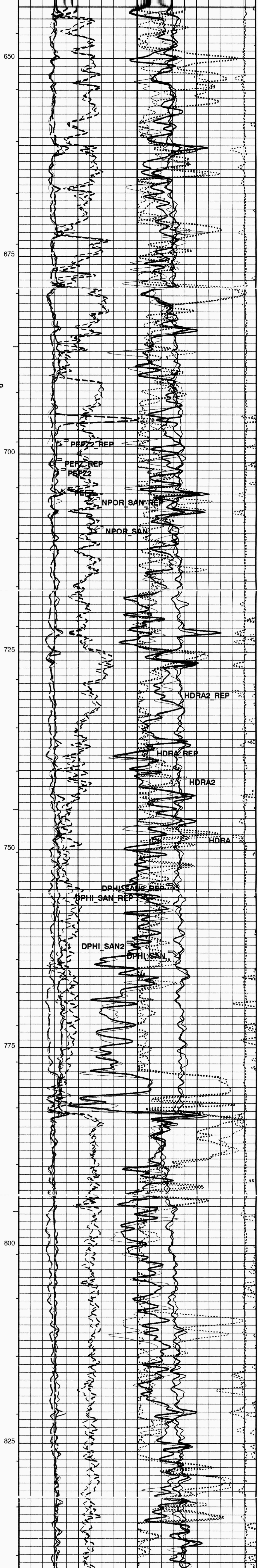
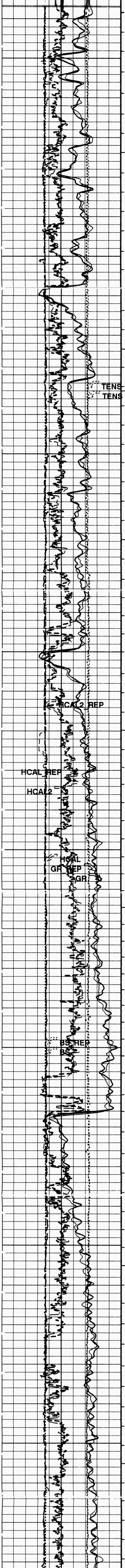
Time Mark Every 60 S

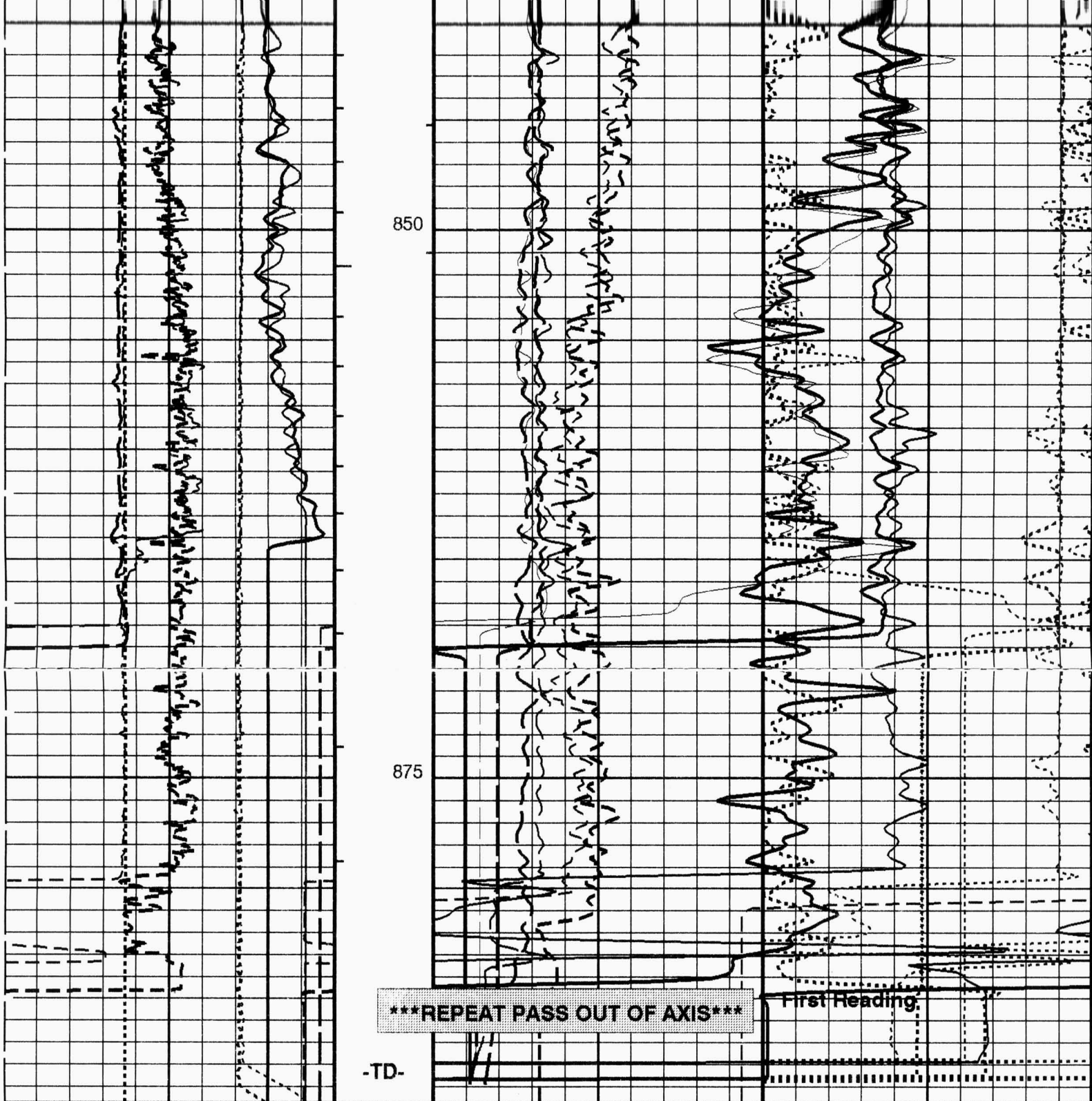
TENS REP Curve (TENS REP) 25000 (N) 0		PEFZ2 REP Curve (PEFZ2 REP) 0 (----) 10 450		HDRA2 REP Curve (HDRA2 REP) (K/M3) -50	
HCAL2 REP Curve (HCAL2 REP) 125 (MM) 375		PEFZ REP Curve (PEFZ REP) 0 (----) 10 450		HDRA REP Curve (HDRA REP) (K/M3) -50	
HCAL REP Curve (HCAL REP) 125 (MM) 375		NPOR_SAN REP Curve (NPOR_SAN REP) 0.45 (V/V) -0.15		DPHI_SAN2 REP Curve (DPHI_SAN2 REP) 0.45 (V/V) -0.15	
GR REP Curve (GR REP) 0 (GAPI) 150		DPHI_SAN REP Curve (DPHI_SAN REP) 0.45 (V/V) -0.15			
BS REP Curve (BS REP) 125 (MM) 375					

REPEAT PASS: ***PEX DENSITY POROSITY - SANDSTONE 2650 KG/M3 ***









REPEAT PASS: ***PEX DENSITY POROSITY - SANDSTONE 2650 KG/M3 ***

BS REP Curve (BS REP) 125 (MM) 375		DPHI SAN REP Curve (DPHI SAN REP) 0.45 (V/V) -0.15	
GR REP Curve (GR REP) 0 (GAPI) 150		DPHI SAN2 REP Curve (DPHI SAN2 REP) 0.45 (V/V) -0.15	
HCAL REP Curve (HCAL REP) 125 (MM) 375		NPOR SAN REP Curve (NPOR SAN REP) 0.45 (V/V) -0.15	
HCAL2 REP Curve (HCAL2 REP) 125 (MM) 375		PEFZ REP Curve (PEFZ REP) 0 (----) 10 450	HDRA REP Curve (HDRA REP) (K/M3) -50
TENS REP Curve (TENS REP) 25000 (N) 0		PEFZ2 REP Curve (PEFZ2 REP) 0 (----) 10 450	HDRA2 REP Curve (HDRA2 REP) (K/M3) -50

PIP SUMMARY

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

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
AIT-M: Array Induction Tool - M		
BHS	Borehole Status	OPEN
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
FD	Fluid Density	1000 K/M3
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCLF	Germany Coal-like Formation Option	NO
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HSCO	Hole Size Correction Option	YES
MCCO	Mud Cake Correction Option	NO
MCOR	Mud Correction	NATU
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
SOCN	Standoff Distance	3.175 MM
SOCO	Standoff Correction Option	YES
CMRT-B: Combinable Magnetic Resonance Tool - B		
BHS	Borehole Status	OPEN
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
FD	Fluid Density	1000 K/M3
FSCO	Formation Salinity Correction Option	NO
GCLF2	Germany Coal-like Formation Option	NO
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HSCO	Hole Size Correction Option	YES
MCCO	Mud Cake Correction Option	NO
MCOR	Mud Correction	NATU
MWCO	Mud Weight Correction Option	NO
NAAC2	HRDD2 APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM2	HRDD2 Processing Mode	HiRes
NSAR2	HRDD2 Depth Sampling Rate	25.4 MM
PTCO	Pressure/Temperature Correction Option	NO
SDAT	Standoff Data Source	SOCN
SOCN	Standoff Distance	3.175 MM
SOCO	Standoff Correction Option	YES
SGT-N: Scintillation Gamma Ray Tool - N		
BHS	Borehole Status	OPEN
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0 M
TIMD	Along-hole depth of Tie-in Point	260 M
TIVD	TVD of Tie-in Point	260 M
HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN
FCD	Future Casing (Outer) Diameter	177.8 MM
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
HVCS	Integrated Hole Volume Caliper Selection	HCAL/HCAL2
STI: Stuck Tool Indicator		
TDL	Total Depth - Logger	888.30 M
System and Miscellaneous		
BS	Bit Size	216.000 MM
BSAL	Borehole Salinity	-50000.00 PPM
CSIZ	Current Casing Size	244.500 MM
CWEI	Casing Weight	69.94 KG/M
DFD	Drilling Fluid Density	1095.00 K/M3
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
MST	Mud Sample Temperature	21.83 DEGC
PP	Playback Processing	NORMAL
RMFS	Resistivity of Mud Filtrate Sample	1.8440 OHMM
TD	Total Depth	888.3 M

Format: PORO_REP Vertical Scale: 1:240

Graphics File Created: 19-Mar-2008 04:48

OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21	889.7 M	3.2 M
DEFAULT	AIT_TLD_MCFL_CNL_091PUP	FN:150	PRODUCER	19-Mar-2008 01:13	890.5 M	433.9 M

Input DLIS Files

DEFAULT	Splice_AIT_TLD_MCFL_089CUP	FN:1	PRODUCER	19-Mar-2008 00:27	888.9 M	355.7 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_104PUP	FN:162	PRODUCER	19-Mar-2008 04:15		
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OP System Version: 15C0-309

MCM

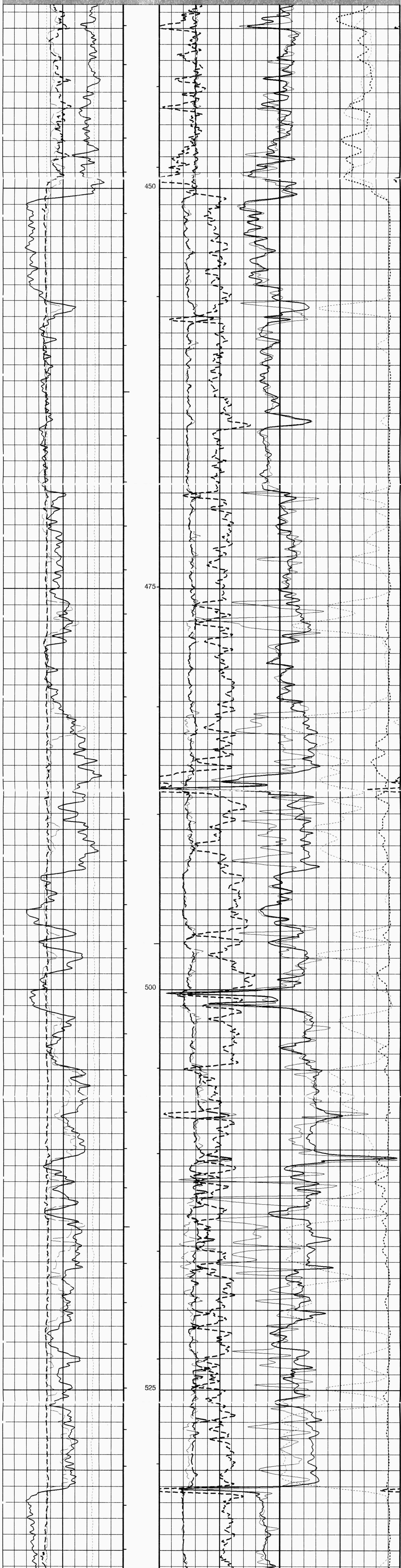
AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397

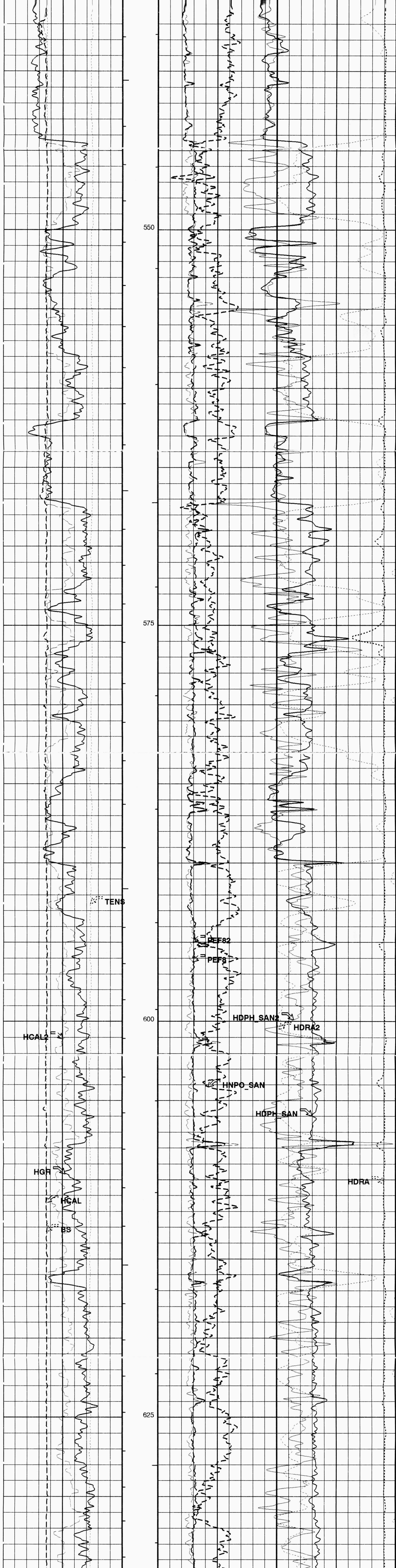
PIP SUMMARY

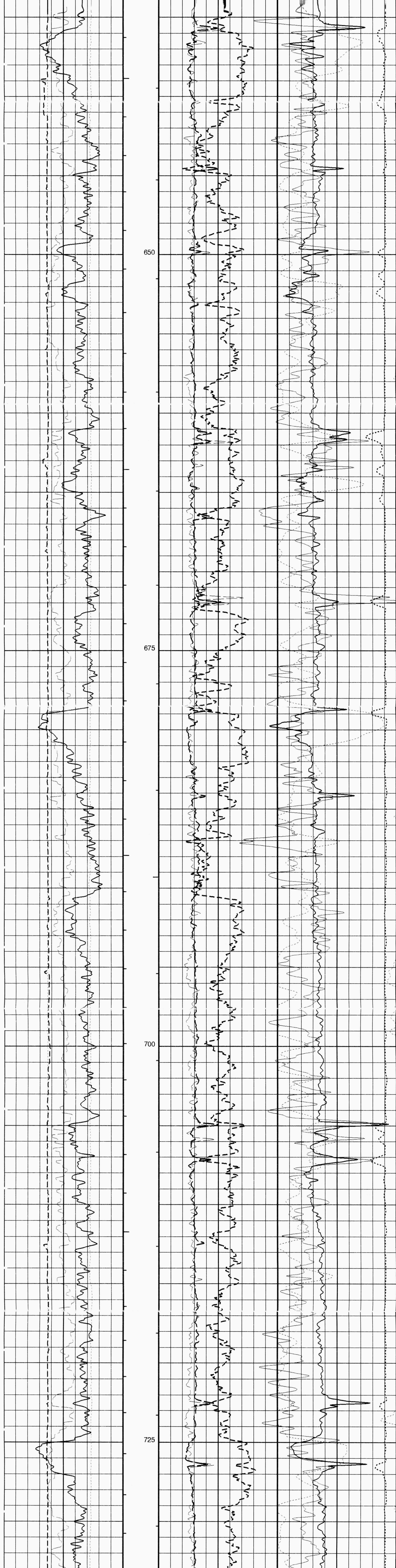
- Integrated Cement Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Hole Volume Minor Pip Every 0.1 M3

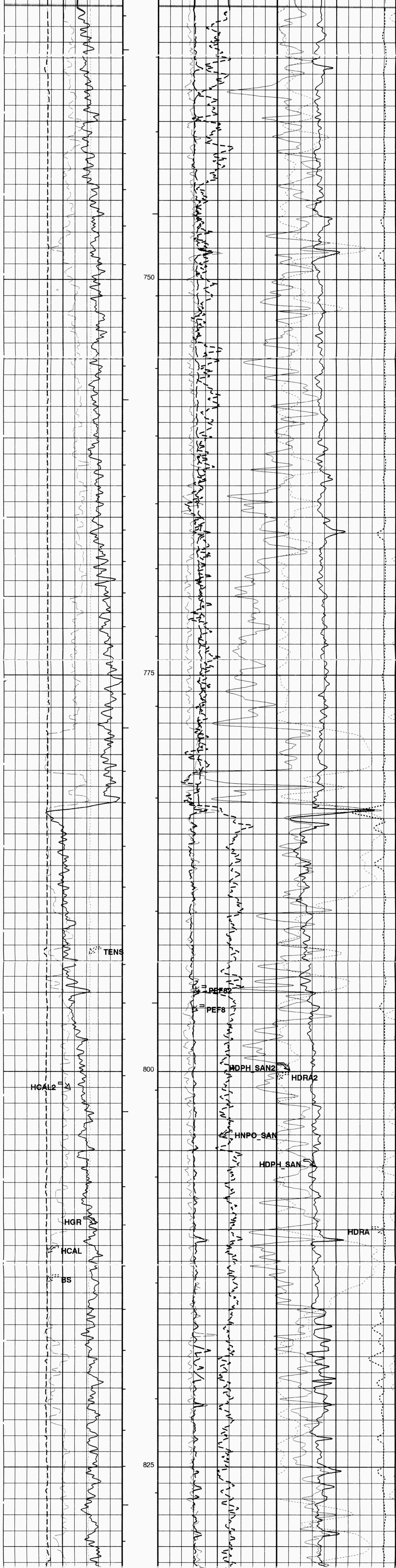
Time Mark Every 60 S

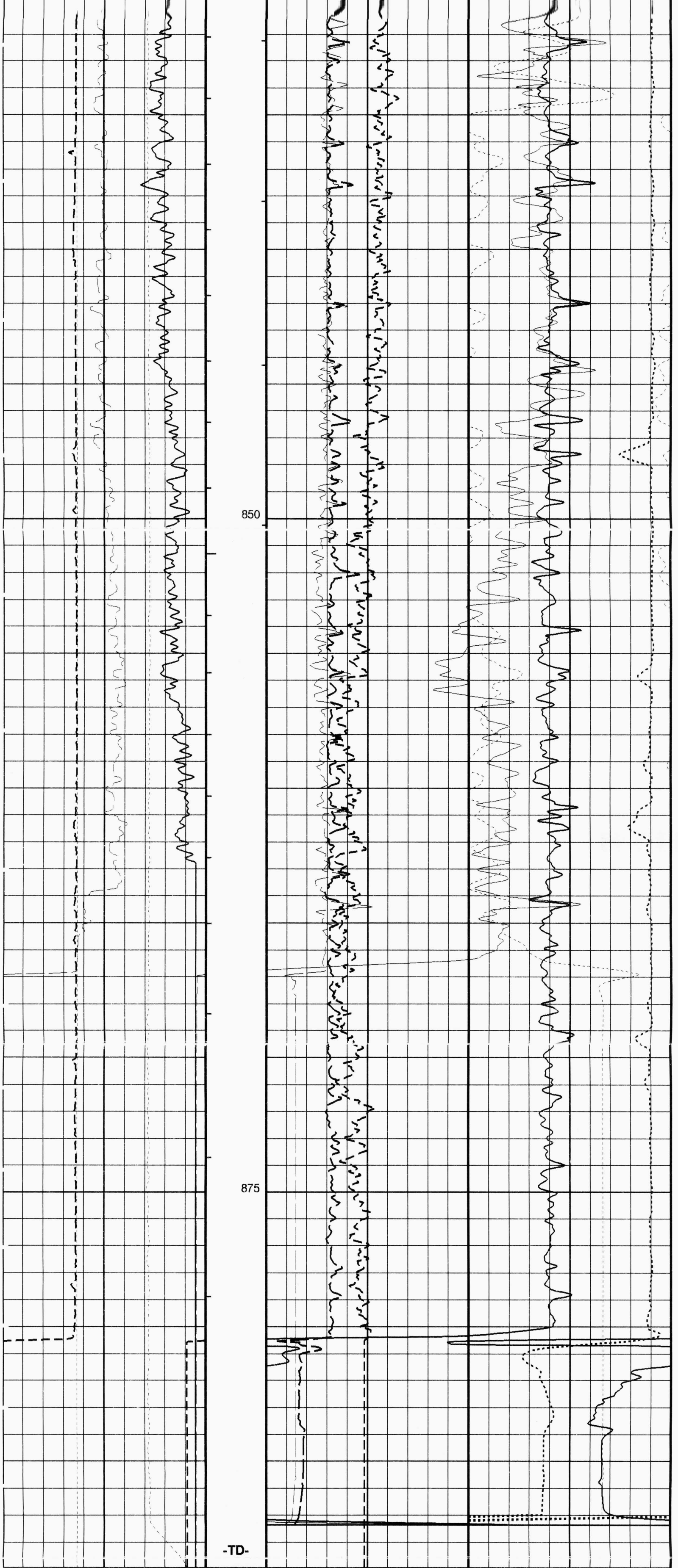
Tension (TENS) 25000 (N) 0		H. Res. Formation Pe (PEF82) 0 (----) 10 450		Density Correction (HDRA2) (K/M3) -50	
Caliper (HCAL) 125 (MM) 375		H. Res. Formation Pe (PEF8) 0 (----) 10 450		Density Correction (HDRA) (K/M3) -50	
Gamma Ray (HGR) 0 (GAPI) 150		HDPH2 for SAND (HDPH_SAN2) 0.45 (V/V) -0.15		HNPO for SAND (HNPO_SAN) 0.45 (V/V) -0.15	
HILT Caliper (HCAL2) 125 (MM) 375		HDPH for SAND (HDPH_SAN) 0.45 (V/V) -0.15			
Bit Size (BS) 125 (MM) 375					











HIRES PASS: *** PEX - DENSITY POROSITY - SANDSTONE 2650 KG/M3 ***

Bit Size (BS) (MM)		125	375	HDPH for SAND (HDPH_SAN)		0.45	(V/V)	-0.15
HILT Caliper (HCAL2) (MM)		125	375	HNPO for SAND (HNPO_SAN)		0.45	(V/V)	-0.15
Gamma Ray (HGR) (GAPI)		0	150	HDPH2 for SAND (HDPH_SAN2)		0.45	(V/V)	-0.15
Caliper (HCAL) (MM)		125	375	H. Res. Formation Pe (PEF8)		0	(----	10 450
Tension (TENS) 25000 (N)			0	Density Correction (HDRA)			(K/M3)	-50
				H. Res. Formation Pe (PEF82)		0	(----	10 450
				Density Correction (HDRA2)			(K/M3)	-50

PIP SUMMARY

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

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
AIT-M: Array Induction Tool - M		
AAPL	Array Induction Answer Product Level(Depth Log/View only)	
ABHM	3_BholeCorr_BasicLogs_RadialProcessing	
ABHV	2_ComputeStandoff	
ABLM	Array Induction Borehole Correction Mode	900
ABLV	Array Induction Basic Logs Mode	6_One_Two_and_Four
ACEN	Array Induction Basic Logs Code Version Number	223
ACED	Array Induction Casing Detection Enable	No
ADITM	Array Induction Tool Centering Flag (in Borehole)	Eccentered
AEBL	Array Induction Casing Shoe Estimated Depth	-50000
AEBL	Array Induction Desired Tool Mode	0x00_Log_000
AERP	Array Induction Enable Borehole Correction	Yes
AETP	Array Induction Enable Basic Logs	Yes
AETP	Array Induction Enable Radial Processing	Yes
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20
AFVN	Array Induction Firmware Code Version Number	0
ALGS	Array Induction Select Akima Interpolation Gating	On
ALNV	Array Induction Log Not Valid Flag	Log_Valid-No_Default_Parameters
AMRD	Array Induction Mud Resistivity Calibration Depth	0
AMRF	Array Induction Mud Resistivity Factor	1
AORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20
ARFV	Array Induction Radial Profiling Code Version Number	701
ARPM	Array Induction Radial Processing Mode	6_One_Two_and_Four
ARTV	Array Induction Radial Parametrization Code Version Number	232
ASTA	AIT Rt Selection (for ALLRES computation)	AITM_OneResTrueDeep
ATRSV	Array Induction Tool Standoff	38
ATSE	Array Induction Response Set Version for Two ft Resolution	41.70.24.20
ATSV	Array Induction Temperature Selection(Sonde Error Correction)	Internal
ATTV	Array Induction Tool Type (of acquired data)	AITM
AULV	Array Induction User Level Control	Normal
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	25
BEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
FPHI	Form Factor Porosity Source	DPHZ
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0
GGRD	Geothermal Gradient	0.018227
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM
ISSBAR	Barite Mud Switch	NOBARITE
MTRC	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
RTCO	RTCO - Rt Invasion Porosity Correction	YES
SHT	Surface Hole Temperature	20
SPNV	SP Next Value	0
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	25
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
DPPM	Density Porosity Processing Mode	HIRS
EXSICL	External Shale Indicator Clean Value	20
EXSISH	External Shale Indicator Shale Value	150
FD	Fluid Density	1000
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
FPHI	Form Factor Porosity Source	DPHZ
FSAL	Formation Salinity	50000
FSCAL	Formation Salinity Correction Option	NO
GCLF	Germany Coal-like Formation Option	NO
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0
GGRD	Geothermal Gradient	0.018227
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM

ACCP		Accelerometer PROM Presence	PRESENT_FILE	
HART		Accelerometer Reference Temperature	25	DEGC
HDCOD		HILT Density Coal detection	2000	K/M3
HDSAD		HILT Density Salt detection	2100	K/M3
HILT_GAS_DENSITY		HILT Gas Downhole Density	0	K/M3
HILT_GAS_OPTION		HILT Gas Computation Option	OFF	
HNCOD		HILT Neutron Coal detection	0.45	V/V
HNSAD		HILT Neutron Salt detection	0.05	V/V
HPHIECUT		HILT effective Porosity Cutoff	0.05	V/V
HSCO		Hole Size Correction Option	YES	
HSIS		HILT Shale Indicator Selection	GR	
HSSO		HRDD Nuclear Source Strength Option	NORMAL	
HSWCUT		HILT Water Saturation from AITH cutoff	50	%
ISSBAR		Barite Mud Switch	NOBARITE	
MATR		Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO		Mud Cake Correction Option	NO	
MCOR		Mud Correction	NATU	
MDEN		Matrix Density	2650	K/M3
MHC0		MCFL B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC1		MCFL B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC		MCFL High Contrast Correction Switch	NO	
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
PEA_FILTER		PEA Filter	NO_FILTER	
PEFC_FILTER		PEFC Filter	NO_FILTER	
PHIMAX		HILT max porosity	0.35	V/V
PTCO		Pressure/Temperature Correction Option	NO	
SDAT		Standoff Data Source	SOCN	
SEXP_HILT		HILT Saturation Exponent	2	
SHT		Surface Hole Temperature	20	DEGC
SOCN		Standoff Distance	3.175	MM
SOCO		Standoff Correction Option	YES	
CMRT-B: Combinable				
ACQ_METHOD_OPT		Magnetic Resonance Tool - B	SEQ	
AEC5		Acquisition Method Option	On	
AFS		Auto Electronic Calibration Switch	On	
ATCTRL		Auto Frequency Switch	1F	
B0_TEMP_COEF		Exponential Coef. for Static B from Temp.	-0.000399947	
BFV_MIN		Minimum BFV	0.02	V/V
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	25	DEGC
CMRP_POLC_MAX		Polar. Correct. Maximum to Trigger Insufficient Wait Time Flag	0.015	V/V
CMR_FORM_H2O_SAL		Formation Water Salinity	-50000	PPM
CMR_HI_COR_SW		CMR Hydrogen Index Correction Switch	Off	
CMR_HR_OPT		CMR High Resolution Option	Off	
CMR_LOG_DIRECTION		Logging Direction	Up	
CMR_LOG_SPEED		Optimal CMR logging speed	304.8	M/HR
CMR_SIGNAL_PROC_SW		CMR Signal Processing Switch	On	
CMR_TEMP_MC		CMR Temperature during Master Calibration	17.0223	DEGC
CPMG_OPT		Option for CPMG Data	No	
DC_GAS		Diffusion Coefficient of Gas	8	TC2S
DDFL		Uphole Stacking	1	
DEPTH_CMR_SL		Depth for CMR Station Log	0	M
DESPIKE_OPT		Despiking Option	Off	
DE_ALPHA		Diffusion Editing Alpha Coefficient	0.84	
DE_BETA		Diffusion Editing Beta Coefficient	0	
DE_OPT		Diffusion Editing Option	Off	
DMRP_CAL_OPT		DMRP Calculation Option	60/40	
DMRP_OPT		DMRP Option	On	
DP_OPT		Density Porosity Option	AUTO	
EPM_OPT		Enhanced Precision Mode Option	On	
FLUID_DENSITY		Density of Liquid Phase	1000	K/M3
GAMMA_REG		Gamma Regularization - Depth Log	** V **	
GAMMA_REG_SL		Gamma Regularization - Station Log	** V **	
GAS_DENSITY		Density of Gas	300	K/M3
GCSE		Generalized Caliper Selection	HCAL	
GDEV		Average Angular Deviation of Borehole from Normal	0	DEG
GGRD		Geothermal Gradient	0.018227	DC/M
GOR		Gas Oil Ratio	0	
GRSE		Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE		Generalized Temperature Selection	HSTS_HTEM	
HIFF		Hydrogen Index of Formation Fluid	1	
HI_GAS		Hydrogen Index of Gas	0.4	
HI_H2O		Hydrogen Index of Water	1	
HI_OBMF		Hydrogen Index of OBMF	1	
HI_OIL		Hydrogen Index of Oil	1	
HP_H0		0th Coefficient for Hall Probe	192.005	
HP_H1		1st Coefficient for Hall Probe	6.26175	
HP_H2		2nd Coefficient for Hall Probe	0	
HP_H3		3rd Coefficient for Hall Probe	0	
INV_MC_AMP		Inverse of Master Calibration Amplitude	0.0358298	
ISSBAR		Barite Mud Switch	NOBARITE	
KBFV_OPT		KBFV Option	Off	
KECHO_HR_A		Scale Factor for High Resolution Permeability	1	
KECHO_HR_B		Sensitivity Factor for High Resolution Permeability	1	
KSDR_A		Multiplier for SDR Permeability	4	MD
KSDR_B		T2 Exponent for SDR Permeability	2	
KSDR_C		Porosity Exponent for SDR Permeability	4	
KTIM_A		Multiplier for Timur/Coates Permeability	1	MD
KTIM_B		Porosity Exponent for Timur/Coates Permeability	4	
KTIM_C		PHI Ratio Exponent for Timur/Coates Permeability	2	
LFST_SEARCH_FREQ		LFST Search Operating Frequency	2.254e+006	HZ
LOOP_MC		Calibration Loop during Master Calibration	1863.32	
MATR		Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MATRIX_DENSITY		Density of Formation Matrix	2650	K/M3
MPHI_SW		Porosity Channel Selection for KBFV Computation	DPHZ	
MRF_B		Oil Diffusion/T2 Scaling Factor for Magnetic Resonance Fluid Technique	1	
NCOMP		Number of Components - Depth Log	30	
NCOMP_OIL		Number of Oil Components	14	
NCOMP_SL		Number of Components - Station Log	30	
NECH_V		Number of Echo Amplitudes per CPMG	** V **	
NMR_FLUID_MODEL		Fluid Model for Magnetic Resonance Fluid Typing	WATER	
NSTACK		Number of Stacks Down-Hole	3	
NWT		Number of Wait Times	2	
OBM		Oil Based Mud	Water	
PHI_FOR_BADF		Porosity Threshold to Trigger Bad Hole Flag	0.4	V/V
POLC_SW		Polarization Correction Switch	On	
PT_V		Polarization Times	** V ** S	
Q_SWITCH_ON_TIME		Duration of Q-Switch ON State	10	US
RINGING_COUNT		Number of Ringing Data Samples	100	
RPTN_V		Repetition Number for each Wait Time	** V **	
RSV_WSUM_MUD		R (Residual) Square Value of Window Sum Fit for Mud	** V **	
SEND_ECHO_SW		Send Echo Switch	On	
SHT		Surface Hole Temperature	20	DEGC
SLUINT		Station Logging Update Interval	1	S
SPOILER_COUNT		Number of Spoiler Pulses	8	
SPOILER_WIDTH		Spoiler pulse width	26	
T180		Time Width for 180 degree Pulse	24.4	US
T1T2R_IN		T1/T2 Ratio	2	
T1T2R_MAX		T1/T2 Ratio - Maximum	3	
T1T2R_MIN		T1/T2 Ratio - Minimum	1	
T1T2R_OIL_IN		T1/T2 Ratio for oil - Input	1	
T1_GAS		T1 of Gas	4	S
T1_OBMF		T1 of OBMF	1.8	S
T2C1		T2 Cutoff 1	1	MS
T2C2		T2 Cutoff 2	3	MS
T2C3		T2 Cutoff 3	10	MS
T2C4		T2 Cutoff 4	33	MS
T2C5		T2 Cutoff 5	100	MS
T2C6		T2 Cutoff 6	300	MS
T2C7		T2 Cutoff 7	1000	MS
T2CUT		T2 Cutoff	33	MS
T2MF		T2 Mud Filtrate	50000	MS
T2_DISTRIBUTION_V		T2 Distribution Vector	** V **	
T2_FOR_BADF		T2 Threshold to Trigger Bad Hole Flag	10	MS
T2_MAX		T2 Maximum	3000	MS
T2_MAX_OIL		Maximum T2 for Oil	1590	MS
T2_MIN		T2 Minimum	0.3	MS
T2_MIN_OIL		Minimum T2 for Oil	14	MS
T90		Time Width for 90 degree Pulse	14	US
TCP		Time between 90X, 180Y Pulses	100	US
TCP_DIFF		TCP Difference (TCP1 - TCP2)	-8.8	US
TCP_V		Array of TCP's	** V ** US	
TDEL		Difference between Start of Echo and TCP	20	US
TEMP_SL		Station Logging Temperature	25	DEGC
VIS_OBMF		Viscosity of OBMF	0.00671737	PL
WT_V		Acquisition Wait Times	** V ** S	
X_DC_WATER		Scale Factor for Diffusion Coefficient of Water	1	
ECS-A: Elemental Capture Spectroscopy Tool				
		ECS Marquardt Spectrum	** V **	
SPEC_BARITE_MUD_FLAG		Barite Mud Flag for Spectroscopy Processing	Off	
SPEC_CSG_DEPTH		Casing Depth for Spectroscopy Processing	-999.25	M
SPEC_ELE_STD_SHFT_FAC		Calibration Factor for Elemental Spectral Standards	0.849642	
SPL_CLAY_MODEL		SpectroLith Clay Model	Arenite	
SPL_SULFUR_MINERAL		SpectroLith Sulfur Mineral Option	Pyrite	
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2				
BHFL		Borehole Fluid Type	WATER	
BHFL_TLD		HILT Nuclear Mud Base	WATER	
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	25	DEGC
BSCO		Borehole Salinity Correction Option	NO	
CCCO		Casing & Cement Thickness Correction Option	NO	
DHC		Density Hole Correction	BS	
EXSICL		External Shale Indicator Clean Value	20	
EXSISH		External Shale Indicator Shale Value	150	
FD		Fluid Density	1000	K/M3
FEXP		Form Factor Exponent	2	
FNUM		Form Factor Numerator	1	
FPHI		Form Factor Porosity Source	DPHZ	
FSCO		Formation Salinity Correction Option	NO	
GCLF2		Germany Coal-like Formation Option	NO	
GCSE		Generalized Caliper Selection	HCAL	
GDEV		Average Angular Deviation of Borehole from Normal	0	DEG
GGRD		Geothermal Gradient	0.018227	DC/M
GRSE		Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE		Generalized Temperature Selection	HSTS_HTEM	
HDCOD		HILT Density Coal detection	2000	K/M3
HDSAD		HILT Density Salt detection	2100	K/M3
HILT_GAS_DENSITY		HILT Gas Downhole Density	0	K/M3
HILT_GAS_OPTION		HILT Gas Computation Option	OFF	
HNCOD		HILT Neutron Coal detection	0.45	V/V
HNSAD		HILT Neutron Salt detection	0.05	V/V
HPHIECUT		HILT effective Porosity Cutoff	0.05	V/V
HSCO		Hole Size Correction Option	YES	
HSIS		HILT Shale Indicator Selection	GR	
HSSO2		HRDD2 Nuclear Source Strength Option	NORMAL	
HSWCUT		HILT Water Saturation from AITH cutoff	50	%
ISSBAR		Barite Mud Switch	NOBARITE	
MATR		Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO		Mud Cake Correction Option	NO	
MCOR		Mud Correction	NATU	
MDEN		Matrix Density	2650	K/M3
MHC02		MCFL2 B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC12		MCFL2 B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC2		MCFL2 High Contrast Correction Switch	NO	
MPOF2		MCFL2 Processing Operation Mode	ON	
MWCO		Mud Weight Correction Option	NO	
NAAC2		HRDD2 APS Activation Correction	OFF	
NMT		HILT Nuclear Mud Type	NOBARITE	
NPRM2		HRDD2 Processing Mode	HiRes	
NSAR2		HRDD2 Depth Sampling Rate	25.4	MM
PEA_FILTER2		PEA Filter	NO_FILTER	
PEFC_FILTER2		PEFC Filter	NO_FILTER	
PHIMAX		HILT max porosity	0.35	V/V
PTCO		Pressure/Temperature Correction Option	NO	
SDAT		Standoff Data Source	SOCN	
SEXP_HILT		HILT Saturation Exponent	2	
SHT		Surface Hole Temperature	20	DEGC
SOCN		Standoff Distance	3.175	MM
SOCO		Standoff Correction Option	YES	
SGT-N: Scintillation Gamma Ray Tool - N				
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	25	DEGC
DPPM		Density Porosity Processing Mode	HIRS	
GCSE		Generalized Caliper Selection	HCAL	
GDEV		Average Angular Deviation of Borehole from Normal	0	DEG
GGRD		Geothermal Gradient	0.018227	DC/M
GRSE		Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE		Generalized Temperature Selection	HSTS_HTEM	
ISSBAR		Barite Mud Switch	NOBARITE	
MATR		Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT		Surface Hole Temperature	20	DEGC
SOGR		SGT Standoff Distance	0	MM
DIR: Directional Survey Computation				
SPED		East Departure of Starting Point	0	M
SPND		North Departure of Starting Point	0	M
SPVD		TVD of Starting Point	0	M
TAZI		Vertical Section Azimuth	0	DEG
TIED		East Departure of Tie-in Point	0	M
TIMD		Along-hole depth of Tie-in Point	260	M
TIND		North Departure of Tie-in Point	2.93	M
TIVD		TVD of Tie-in Point	260	M
HOLEV: Integrated Hole/Cement Volume				
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	25	DEGC
FCD		Future Casing (Outer) Diameter	177.8	MM
GCSE		Generalized Caliper Selection	HCAL	
GDEV		Average Angular Deviation of Borehole from Normal	0	DEG
GGRD		Geothermal Gradient	0.018227	DC/M
GRSE		Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE		Generalized Temperature Selection	HSTS_HTEM	
HVCS		Integrated Hole Volume Caliper Selection	HCAL/HCAL2	
ISSBAR		Barite Mud Switch	NOBARITE	
MATR		Rock Matrix for Neutron Porosity Corrections	SANDSTONE	

MATH	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	895.00	M
TDL	Total Depth - Logger	888.30	M
System and Miscellaneous			
ALTDPC	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	216.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	244.500	MM
CWEI	Casing Weight	69.94	KG/M
DFD	Drilling Fluid Density	1095.00	K/M3
DO	Depth Offset for Playback	0.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	21.83	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	1.8440	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	888.3	M
TWS	Temperature of Connate Water Sample	37.78	DEGC
Format: PORO_HIRES		Vertical Scale: 1:120	Graphics File Created: 19-Mar-2008 04:15
OP System Version: 15C0-309			
MCM			
AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397
Input DLIS Files			
DEFAULT	Splice_AIT_TLD_MCFL_089CUP	FN:1	PRODUCER 19-Mar-2008 00:27 888.9 M 355.7 M
Output DLIS Files			
DEFAULT	AIT_TLD_MCFL_CNL_104PUP	FN:162	PRODUCER 19-Mar-2008 04:15

Calibration and Check Summary								
Measurement	Nominal	Master	Before	After	Change	Limit	Units	
Array Induction Tool - M Wellsite Calibration - Electronics Calibration Check - Thru Cal Mag. & Phase								
Master: 2-Jan-2008 13:27 Before: 17-Mar-2008 2:20								
Thru Cal Magnitude - 0	0	0.6127	0.6139	N/A	N/A	N/A		V
Thru Cal Magnitude - 1	0	1.256	1.258	N/A	N/A	N/A		V
Thru Cal Magnitude - 2	0	0.6225	0.6233	N/A	N/A	N/A		V
Thru Cal Magnitude - 3	0	0.7028	0.7039	N/A	N/A	N/A		V
Thru Cal Magnitude - 4	0	1.316	1.318	N/A	N/A	N/A		V
Thru Cal Magnitude - 5	0	1.920	1.923	N/A	N/A	N/A		V
Thru Cal Magnitude - 6	0	1.918	1.921	N/A	N/A	N/A		V
Thru Cal Magnitude - 7	0	1.372	1.376	N/A	N/A	N/A		V
Thru Cal Phase - 0	0	187.4	186.4	N/A	N/A	N/A		DEG
Thru Cal Phase - 1	0	186.3	185.3	N/A	N/A	N/A		DEG
Thru Cal Phase - 2	0	182.7	181.8	N/A	N/A	N/A		DEG
Thru Cal Phase - 3	0	182.0	181.0	N/A	N/A	N/A		DEG
Thru Cal Phase - 4	0	175.8	174.8	N/A	N/A	N/A		DEG
Thru Cal Phase - 5	0	174.2	173.2	N/A	N/A	N/A		DEG
Thru Cal Phase - 6	0	174.2	173.2	N/A	N/A	N/A		DEG
Thru Cal Phase - 7	0	173.5	172.5	N/A	N/A	N/A		DEG
Array Induction Tool - M Wellsite Calibration - Electronics Calibration Check - Auxiliary								
Master: 2-Jan-2008 13:27 Before: 17-Mar-2008 2:20								
Array Induction SPA Plus	991.0	990.7	991.0	N/A	N/A	N/A		MV
Array Induction SPA Zero	0	-0.08744	-0.05665	N/A	N/A	N/A		MV
Array Induction Temperature PI	0.9170	0.9178	0.9181	N/A	N/A	N/A		V
Array Induction Temperature Ze	0	-0.00009114	-0.00006404	N/A	N/A	N/A		V
Array Induction Tool - M Wellsite Calibration - Test Loop Gain Correction								
Master: 2-Jan-2008 13:27								
Test Loop Gain Correctio - 0	0	1.009	N/A	N/A	N/A	N/A		V
Test Loop Gain Correctio - 1	0	1.009	N/A	N/A	N/A	N/A		V
Test Loop Gain Correctio - 2	0	1.011	N/A	N/A	N/A	N/A		V
Test Loop Gain Correctio - 3	0	1.006	N/A	N/A	N/A	N/A		V
Test Loop Gain Correctio - 4	0	0.9843	N/A	N/A	N/A	N/A		V
Test Loop Gain Correctio - 5	0	0.9821	N/A	N/A	N/A	N/A		V
Test Loop Gain Correctio - 6	0	0.9903	N/A	N/A	N/A	N/A		V
Test Loop Gain Correctio - 7	0	1.006	N/A	N/A	N/A	N/A		V
Test Loop Gain Correctio - 0	0	0.4985	N/A	N/A	N/A	N/A		DEG
Test Loop Gain Correctio - 1	0	0.6555	N/A	N/A	N/A	N/A		DEG
Test Loop Gain Correctio - 2	0	0.07487	N/A	N/A	N/A	N/A		DEG
Test Loop Gain Correctio - 3	0	0.2048	N/A	N/A	N/A	N/A		DEG
Test Loop Gain Correctio - 4	0	0.2139	N/A	N/A	N/A	N/A		DEG
Test Loop Gain Correctio - 5	0	-0.2228	N/A	N/A	N/A	N/A		DEG
Test Loop Gain Correctio - 6	0	0.2038	N/A	N/A	N/A	N/A		DEG
Test Loop Gain Correctio - 7	0	0.05547	N/A	N/A	N/A	N/A		DEG
Array Induction Tool - M Wellsite Calibration - Sonde Error Correction								
Master: 2-Jan-2008 13:27								
R Sonde Error Correction - 0	0	-57.91	N/A	N/A	N/A	N/A		MM/M
R Sonde Error Correction - 1	0	169.8	N/A	N/A	N/A	N/A		MM/M
R Sonde Error Correction - 2	0	104.4	N/A	N/A	N/A	N/A		MM/M
R Sonde Error Correction - 3	0	59.64	N/A	N/A	N/A	N/A		MM/M
R Sonde Error Correction - 4	0	25.99	N/A	N/A	N/A	N/A		MM/M
R Sonde Error Correction - 5	0	11.84	N/A	N/A	N/A	N/A		MM/M
R Sonde Error Correction - 6	0	9.606	N/A	N/A	N/A	N/A		MM/M
R Sonde Error Correction - 7	0	-1.451	N/A	N/A	N/A	N/A		MM/M
X Sonde Error Correction - 0	0	-35.17	N/A	N/A	N/A	N/A		MM/M
X Sonde Error Correction - 1	0	-74.96	N/A	N/A	N/A	N/A		MM/M
X Sonde Error Correction - 2	0	-116.9	N/A	N/A	N/A	N/A		MM/M
X Sonde Error Correction - 3	0	54.31	N/A	N/A	N/A	N/A		MM/M
X Sonde Error Correction - 4	0	3.746	N/A	N/A	N/A	N/A		MM/M
X Sonde Error Correction - 5	0	11.94	N/A	N/A	N/A	N/A		MM/M
X Sonde Error Correction - 6	0	1.909	N/A	N/A	N/A	N/A		MM/M
X Sonde Error Correction - 7	0	2.924	N/A	N/A	N/A	N/A		MM/M
Array Induction Tool - M Wellsite Calibration - Mud Gain Correction								
Master: 2-Jan-2008 13:27								
Coarse - Mag, Real, Imag - 0	0	1.039	N/A	N/A	N/A	N/A		
Coarse - Mag, Real, Imag - 1	0	1.039	N/A	N/A	N/A	N/A		
Coarse - Mag, Real, Imag - 2	0	1.039	N/A	N/A	N/A	N/A		
Fine - Mag, Real, Imag - 0	0	1.040	N/A	N/A	N/A	N/A		
Fine - Mag, Real, Imag - 1	0	1.040	N/A	N/A	N/A	N/A		
Fine - Mag, Real, Imag - 2	0	1.040	N/A	N/A	N/A	N/A		
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Stab Measurement Summary								
Before: 13-Mar-2008 9:04								
BS Window Ratio	0.7419	N/A	0.7423	N/A	N/A	N/A		
BS Window Sum	29960	N/A	29940	N/A	N/A	N/A		CPS
SS Window Ratio	0.4878	N/A	0.4892	N/A	N/A	N/A		
SS Window Sum	12820	N/A	12820	N/A	N/A	N/A		CPS
LS Window Ratio	0.2996	N/A	0.2973	N/A	N/A	N/A		
LS Window Sum	1521	N/A	1518	N/A	N/A	N/A		CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations								
Before: 13-Mar-2008 9:04								
BS PM High Voltage (Command)	1378	N/A	1391	N/A	N/A	N/A		V
SS PM High Voltage (Command)	1304	N/A	1313	N/A	N/A	N/A		V
LS PM High Voltage (Command)	1245	N/A	1257	N/A	N/A	N/A		V
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Crystal Quality Resolutions Calibration								
Before: 13-Mar-2008 9:04								
BS Crystal Resolution	10.62	N/A	10.63	N/A	N/A	N/A		%
SS Crystal Resolution	9.272	N/A	9.028	N/A	N/A	N/A		%
LS Crystal Resolution	8.109	N/A	8.091	N/A	N/A	N/A		%
High resolution Integrated Logging Tool-DTS Wellsite Calibration - MCFL Calibration								
Before: 13-Mar-2008 8:56								
Raw B0 Resistivity	3875	N/A	3887	N/A	N/A	N/A		OHMM
Raw B1 Resistivity	3830	N/A	3837	N/A	N/A	N/A		OHMM
Raw B2 Resistivity	3830	N/A	3839	N/A	N/A	N/A		OHMM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - HILT Caliper Calibration								
Before: 13-Mar-2008 8:57								
HILT Caliper Zero Measurement	203.2	N/A	186.1	N/A	N/A	N/A		MM
HILT Caliper Plus Measurement	304.8	N/A	298.8	N/A	N/A	N/A		MM
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Detector Calibration								
Before: 13-Mar-2008 9:01								
Gamma Ray Background	30.00	N/A	10.53	N/A	N/A	N/A		GAPI
Gamma Ray (Jlg - Bkg)	172.4	N/A	172.4	N/A	N/A	N/A	15.67	GAPI
Gamma Ray (Calibrated)	167.0	N/A	167.0	N/A	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Zero Measurement								
Master: 15-Jan-2008 15:00 Before: 13-Mar-2008 9:01								
CNTC Background	26.64	26.64	26.13	N/A	N/A	3.996		CPS
CFTC Background	26.42	26.42	25.85	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: 17-Mar-2008 2:22								
Z-Axis Acceleration	9.810	N/A	9.809	N/A	N/A	N/A		M/S2
High resolution Integrated Logging Tool-DTS Master Calibration - Inversion results								
Master: 10-Mar-2008 15:02								
Rho Aluminum	2596	2595	--	--	--	--		K/M3
Rho Magnesium	1686	1689	--	--	--	--		K/M3
Pe Aluminum	2.570	2.559	--	--	--	--		
Pe Magnesium	2.650	2.612	--	--	--	--		
High resolution Integrated Logging Tool-DTS Master Calibration - Deviation Summary								
Master: 10-Mar-2008 15:02								
BS Average Deviation	0	0.5046	--	--	--	--		%
BS Max Deviation	0	1.523	--	--	--	--		%
SS Average Deviation	0	0.3721	--	--	--	--		%
SS Max Deviation	0	0.9547	--	--	--	--		%
LS Average Deviation	0	0.8273	--	--	--	--		%
LS Max Deviation	0	1.671	--	--	--	--		%
Combinable Magnetic Resonance Tool - B Master Calibration - Date of Master Calibration: 16-Jan-2008								
Master: 17-Mar-2008 2:17								
Tool Temperature MCAL	27.00	17.02	--	--	--	--		DEGC
LOOP Measurement MCAL	2300	1863	--	--	--	--		
Hall Probe B0 MCAL	52.00	52.77	--	--	--	--		MTES
Cal. Fixture Amplitude MCAL	37.50	27.91	--	--	--	--		%
Powered Positioning Device/Caliper 1 Wellsite Calibration - PPC1 Caliper Calibration								
Before: 11-Mar-2008 5:39								
PPC1 Radius 1 Raw Small Radius	88.90	N/A	112.4	N/A	N/A	12.70		MM
PPC1 Radius 1 Raw Large Radius	203.2	N/A	219.8	N/A	N/A	12.70		MM
PPC1 Radius 2 Raw Small Radius	88.90	N/A	85.19	N/A	N/A	12.70		MM
PPC1 Radius 2 Raw Large Radius	203.2	N/A	197.3	N/A	N/A	12.70		MM
PPC1 Radius 3 Raw Small Radius	88.90	N/A	110.5	N/A	N/A	12.70		MM
PPC1 Radius 3 Raw Large Radius	203.2	N/A	217.4	N/A	N/A	12.70		MM
PPC1 Radius 4 Raw Small Radius	88.90	N/A	86.44	N/A	N/A	12.70		MM
PPC1 Radius 4 Raw Large Radius	203.2	N/A	197.8	N/A	N/A	12.70		MM
High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - Stab Measurement Summary								
Before: 13-Mar-2008 9:44								
BS2 Window Ratio	0.7352	N/A	0.7347	N/A	N/A	N/A		
BS2 Window Sum	26680	N/A	26810	N/A	N/A	N/A		CPS
SS2 Window Ratio	0.4857	N/A	0.4877	N/A	N/A	N/A		
SS2 Window Sum	12810	N/A	12810	N/A	N/A	N/A		CPS
LS2 Window Ratio	0.2967	N/A	0.2960	N/A	N/A	N/A		
LS2 Window Sum	1482	N/A	1464	N/A	N/A	N/A		CPS
High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - Photo-multiplier High Voltages Calibrations								
Before: 13-Mar-2008 9:44								
BS2 PM High Voltage (Command)	1409	N/A	1401	N/A	N/A	N/A		V
SS2 PM High Voltage (Command)	1287	N/A	1290	N/A	N/A	N/A		V
LS2 PM High Voltage (Command)	1318	N/A	1322	N/A	N/A	N/A		V
High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - Crystal Quality Resolutions Calibration								
Before: 13-Mar-2008 9:44								
BS2 Crystal Resolution	11.11	N/A	11.06	N/A	N/A	N/A		%
SS2 Crystal Resolution	8.873	N/A	8.946	N/A	N/A	N/A		%
LS2 Crystal Resolution	8.383	N/A	8.487	N/A	N/A	N/A		%
High resolution Integrated Logging Tool-DTS2 Wellsite Calibration - MCFL2 Calibration								
Before: 13-Mar-2008 9:20								
Raw B0 Resistivity	3875	N/A	3848	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: 13-Mar-2008 9:16								
HILT2 Caliper Zero Measurement	203.2	N/A	177.8	N/A	N/A	N/A	MM	
HILT2 Caliper Plus Measurement	304.8	N/A	284.8	N/A	N/A	N/A	MM	
High resolution Integrated Logging Tool-DTS2 Master Calibration - Inversion results								
Master: 11-Mar-2008 12:56								
Rho Aluminum	2596	2594	--	--	--	--	K/M3	
Rho Magnesium	1686	1689	--	--	--	--	K/M3	
Pe Aluminum	2.570	2.548	--	--	--	--		
Pe Magnesium	2.650	2.625	--	--	--	--		
High resolution Integrated Logging Tool-DTS2 Master Calibration - Deviation Summary								
Master: 11-Mar-2008 12:56								
BS2 Average Deviation	0	0.3377	--	--	--	--	%	
BS2 Max Deviation	0	1.026	--	--	--	--	%	
SS2 Average Deviation	0	0.7287	--	--	--	--	%	
SS2 Max Deviation	0	1.377	--	--	--	--	%	
LS2 Average Deviation	0	0.8299	--	--	--	--	%	
LS2 Max Deviation	0	1.992	--	--	--	--	%	
Scintillation Gamma Ray Tool - N Wellsite Calibration - Detector Calibration								
Before: 13-Mar-2008 8:59								
Gamma Ray (Jig - Bkg)	165.2	N/A	165.2	N/A	N/A	15.02	GAPI	
Gamma Ray (Calibrated)	167.0	N/A	167.0	N/A	N/A	15.00	GAPI	
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.								

Array Induction Tool - M / Equipment Identification		
Primary Equipment:		
Rm/SP Bottom Nose	AMRM - A	
Array Induction Sonde	AMIS - A	169
Auxiliary Equipment:		

Array Induction Tool - M Wellsite Calibration							
Electronics Calibration Check - Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	0.6127		0.6100	187.4		197.0
	Before	0.6139			186.4		
1	Master	1.256		1.270	186.3		196.0
	Before	1.258			185.3		
2	Master	0.6225		0.6200	182.7		192.0
	Before	0.6233			181.8		
3	Master	0.7028		0.7000	182.0		191.0
	Before	0.7039			181.0		
4	Master	1.316		1.340	175.8		185.0
	Before	1.318			174.8		
5	Master	1.920		1.960	174.2		182.0
	Before	1.923			173.2		
6	Master	1.918		1.960	174.2		181.0
	Before	1.921			173.2		
7	Master	1.372		1.410	173.5		175.0
	Before	1.376			172.5		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 2-Jan-2008 13:27				Before: 17-Mar-2008 2:20			

Array Induction Tool - M Wellsite Calibration						
Electronics Calibration Check - Auxiliary						
Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value	
Master		990.7	Master		-0.08744	
Before		991.0	Before		-0.05665	
	941.0 (Minimum)	991.0 (Nominal)	1040 (Maximum)	-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value	
Master		0.9178	Master		-9.114E-00	
Before		0.9181	Before		-6.404E-00	
	0.8710 (Minimum)	0.9170 (Nominal)	0.9630 (Maximum)	-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Master: 2-Jan-2008 13:27			Before: 17-Mar-2008 2:20			

Array Induction Tool - M Wellsite Calibration							
Test Loop Gain Correction							
Idx	Value	Test Loop Gain Correction Magnitude	V	Value	Test Loop Gain Correction Phase	DEG	
0	1.009			0.4985			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
1	1.009			0.6555			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
2	1.011			0.07487			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
3	1.006			0.2048			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
4	0.9843			0.2139			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
5	0.9821			-0.2228			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
6	0.9903			0.2038			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
7	1.006			0.05547			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
Master: 2-Jan-2008 13:27							

Array Induction Tool - M Wellsite Calibration							
Sonde Error Correction							
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M	
0	-57.91				-35.17		
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		0 (Nominal)	2250 (Maximum)
1	169.8				-74.96		
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		0 (Nominal)	625.0 (Maximum)
2	104.4				-116.9		
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		0 (Nominal)	350.0 (Maximum)
3	59.64				54.31		
		39.00 (Minimum)	64.00 (Nominal)	89.30 (Maximum)		0 (Nominal)	250.0 (Maximum)
4	25.99				3.746		
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		0 (Nominal)	63.00 (Maximum)
5	11.84				11.84		
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		0 (Nominal)	50.00 (Maximum)
6	9.606				1.909		
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		0 (Nominal)	30.00 (Maximum)
7	-1.451				2.924		
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		0 (Nominal)	30.00 (Maximum)
Master: 2-Jan-2008 13:27							

Array Induction Tool - M Wellsite Calibration						
Mud Gain Correction						
Idx	Value	Coarse - Mag, Real, Imag		Value	Fine - Mag, Real, Imag	
0	1.039			1.040		
		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)		0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	
1	1.039			1.040		
		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)		0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	
2	1.039			1.040		
		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)		0.8000 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	
Master: 2-Jan-2008 13:27						

Array Induction Tool - M Master Calibration							
Electronics Calibration Check - Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	0.6127		0.6100	187.4		197.0
1	Master	1.256		1.270	186.3		196.0
2	Master	0.6225		0.6200	182.7		192.0
3	Master	0.7028		0.7000	182.0		191.0
4	Master	1.316		1.340	175.8		185.0
5	Master	1.920		1.960	174.2		182.0
6	Master	1.918		1.960	174.2		181.0
7	Master	1.372		1.410	173.5		175.0
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 2-Jan-2008 13:27							

Array Induction Tool - M Master Calibration							
Electronics Calibration Check - Auxiliary							
Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master			990.7	Master			-0.08744
	941.0 (Minimum)	991.0 (Nominal)	1040 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
Phase	Array Induction Temperature Plus V		Value	Phase	Array Induction Temperature Zero V		Value
Master			0.9178	Master			-9.114E-00
	0.8710 (Minimum)	0.9170 (Nominal)	0.9630 (Maximum)		-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Master: 2-Jan-2008 13:27							

Array Induction Tool - M Master Calibration									
Test Loop Gain Correction									
Idx	Value	Test Loop Gain Correction Magnitude			V	Value	Test Loop Gain Correction Phase DEG		
0	1.009					0.4985			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
1	1.009					0.6555			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
2	1.011					0.07487			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
3	1.006					0.2048			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
4	0.9843					0.2139			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
5	0.9821					-0.2228			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
6	0.9903					0.2038			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
7	1.006					0.05547			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
Master: 2-Jan-2008 13:27									

Array Induction Tool - M Master Calibration									
Sonde Error Correction									
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M			
0	-57.91				-35.17				
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)	
1	169.8				-74.96				
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)	
2	104.4				-116.9				
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)	
3	59.64				54.31				
		39.00 (Minimum)	64.00 (Nominal)	89.30 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)	
4	25.99				3.746				
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)	
5	11.84				11.94				
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)	
6	9.606				1.909				
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)	
7	-1.451				2.924				
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)	
Master: 2-Jan-2008 13:27									

Array Induction Tool - M Master Calibration									
Mud Gain Correction									
Idx	Value	Coarse - Mag, Real, Imag			Value	Fine - Mag, Real, Imag			
0	1.039				1.040				
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)	
1	1.039				1.040				
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)	
2	1.039				1.040				
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)	
Master: 2-Jan-2008 13:27									

High resolution Integrated Logging Tool-DTS / Equipment Identification			
Primary Equipment:			
HILT high-Resolution Mechanical Sonde	HRMS - H		
HILT Rxo Gamma-ray Device	HRGD - H		
HILT Micro Cylindrically Focused Log Dev	MCFL - H		
GR Logging Source	GLS - VJ	5041	
HILT High Res. Control Cartridge	HRCC - H		
HILT Gamma-Ray Neutron Sonde-DTS	HGNS - H	3811	
HGNS Gamma-Ray Device	HGR -		
HGNS Neutron Detector with Alpha Source	HCNT - H		
Auxiliary Equipment:			
HGNS Housing	HGNH -	4738	
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
Before				0.7423	Before				0.4892
	0.7048 (Minimum)	0.7419 (Nominal)	0.7790 (Maximum)			0.4634 (Minimum)	0.4878 (Nominal)	0.5122 (Maximum)	
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value
Before				29940	Before				12820
	28460 (Minimum)	29960 (Nominal)	31460 (Maximum)			12170 (Minimum)	12820 (Nominal)	13460 (Maximum)	
Before: 13-Mar-2008 9:04									

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
Before				1391	Before				1313
	1278 (Minimum)	1378 (Nominal)	1478 (Maximum)			1204 (Minimum)	1304 (Nominal)	1404 (Maximum)	
Phase	LS PM High Voltage (Command) V			Value	Phase	LS PM High Voltage (Command) V			Value
Before				1257	Before				1257
	1145 (Minimum)	1245 (Nominal)	1345 (Maximum)			1145 (Minimum)	1245 (Nominal)	1345 (Maximum)	
Before: 13-Mar-2008 9:04									

High resolution Integrated Logging Tool-DTS Wellsite Calibration									
Crystal Quality Resolutions Calibration									
Phase	BS Crystal Resolution %			Value	Phase	SS Crystal Resolution %			Value
Before				10.63	Before				9.028
	9.620 (Minimum)	10.62 (Nominal)	11.62 (Maximum)			8.272 (Minimum)	9.272 (Nominal)	10.27 (Maximum)	
Phase	LS Crystal Resolution %			Value	Phase	LS Crystal Resolution %			Value
Before				8.091	Before				8.091
	7.109 (Minimum)	8.109 (Nominal)	9.109 (Maximum)			7.109 (Minimum)	8.109 (Nominal)	9.109 (Maximum)	
Before: 13-Mar-2008 9:04									

High resolution Integrated Logging Tool-DTS Wellsite Calibration									
MCFL Calibration									
Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value
Before				3887	Before				3837
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	
Phase	Raw B2 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				3839	Before				3839
	3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	
Before: 13-Mar-2008 8:56									

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				186.1	Before				298.8
	152.4 (Minimum)	203.2 (Nominal)	254.0 (Maximum)			228.6 (Minimum)	304.8 (Nominal)	381.0 (Maximum)	
Before: 13-Mar-2008 8:57									

High resolution Integrated Logging Tool-DTS Wellsite Calibration									
Detector Calibration									
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig - Bkg) GAPI			Value
Before				10.53	Before				172.4
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)			156.7 (Minimum)	172.4 (Nominal)	188.1 (Maximum)	
Phase	Gamma Ray (Calibrated) GAPI			Value	Phase	Gamma Ray (Calibrated) GAPI			Value
Before				167.0	Before				167.0
	152.0 (Minimum)	167.0 (Nominal)	182.0 (Maximum)			152.0 (Minimum)	167.0 (Nominal)	182.0 (Maximum)	
Before: 13-Mar-2008 9:01									

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				26.13	Before				25.85
	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: 13-Mar-2008 9:01				

Zero Measurement							
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value
Master			26.64	Master			26.42
	5.000 (Minimum)	26.64 (Nominal)	40.00 (Maximum)		5.000 (Minimum)	26.42 (Nominal)	40.00 (Maximum)
Master: 15-Jan-2008 15:00							

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)		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													

Combinable Magnetic Resonance Tool - B / Equipment Identification			
Primary Equipment:			
CMR-B Sonde	CMRS - BA	182	
CMR Cartridge	CMRC - BA	202	
Auxiliary Equipment:			

Combinable Magnetic Resonance Tool - B Master Calibration														
Date of Master Calibration: 16-Jan-2008														
Phase	Tool Temperature MCAL DEGC			Value	Phase	LOOP Measurement MCAL			Value	Phase	Hall Probe B0 MCAL MTES			Value
Master				17.02	Master				1863	Master				52.77
	10.00 (Minimum)	27.00 (Nominal)	44.00 (Maximum)		1500 (Minimum)	2300 (Nominal)	2900 (Maximum)			50.00 (Minimum)	52.00 (Nominal)	55.00 (Maximum)		
Phase	Cal. Fixture Amplitude MCAL %			Value										
Master				27.91										
	25.00 (Minimum)	37.50 (Nominal)	50.00 (Maximum)											
Master: 17-Mar-2008 2:17														

Elemental Capture Spectroscopy Tool / Equipment Identification			
Primary Equipment:			
ECS Sonde	ECS - A	20	20
ECS Detector Package	ECSD - A	20	20
ECS AmBe Source	NSR - F	1498	1498
Auxiliary Equipment:			
ECS Sonde Housing	ECSH - A	20	20

Elemental Capture Spectroscopy Tool Wellsite Calibration							
ECS Calibration Check							
Phase	Detector Resolution(20 Degc) %		Value	Phase	Spectral Shift Factor		Value
Master			13.27	Master			0.8496
11.20 (Minimum)		13.00 (Nominal)	14.00 (Maximum)	-1.000 (Minimum)		1.000 (Nominal)	2.000 (Maximum)
Master: 13-Aug-2007 18:27							

Elemental Capture Spectroscopy Tool Master Calibration							
Master Calibration							
Phase	Detector Resolution(20 Degc) %		Value	Phase	Spectral Shift Factor		Value
Master			13.27	Master			0.8496
	11.20 (Minimum)	13.00 (Nominal)	14.00 (Maximum)		-1.000 (Minimum)	1.000 (Nominal)	2.000 (Maximum)
Master: 13-Aug-2007 18:27							

Elemental Capture Cartridge - B / Equipment Identification			
Primary Equipment:			
ECC Cartridge	ECC - B	407	
Auxiliary Equipment:			
ECC Housing	ECH - A	373	

Powered Positioning Device/Caliper 1 / Equipment Identification			
Primary Equipment:			
PPC Powered Positioning Device/Caliper	PPC1 - B	8149	
PPC1 Caliper Standard	PPC_ -	8149	
Auxiliary Equipment:			

Powered Positioning Device/Caliper 1 Wellsite Calibration							
PPC1 Caliper Calibration							
Phase	PPC1 Radius 1 Raw Small Radius MM	Value	Phase	PPC1 Radius 1 Raw Large Radius MM	Value		
Before		112.4	Before		219.8		
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC1 Radius 2 Raw Small Radius MM	Value	Phase	PPC1 Radius 2 Raw Large Radius MM	Value		
Before		85.13	Before		197.3		
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC1 Radius 3 Raw Small Radius MM	Value	Phase	PPC1 Radius 3 Raw Large Radius MM	Value		
Before		110.5	Before		217.4		
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC1 Radius 4 Raw Small Radius MM	Value	Phase	PPC1 Radius 4 Raw Large Radius MM	Value		
Before		86.44	Before		197.8		
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Before: 11-Mar-2008 5:39							

High resolution Integrated Logging Tool-DTS2 / Equipment Identification			
Primary Equipment:			
HILT2 high-Resolution Mechanical Sonde	HRMS - H2		
HILT2 Rxo Gamma-ray Device	HRGD - H2		
HILT2 Micro Cylindrically Focused Log De	MCFL - H2		
GR Logging Source	GLS - VJ2	1984	
HILT2 High Res. Control Cartridge	HRCC - H2		
HILT2 HTBC DTS mode	HTBC - H2		
HTBC2 Communication Assembly DTS Mode	HMCA - H		
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			0.7347	Before			0.4877	Before			0.2960
	0.6984 (Minimum)	0.7352 (Nominal)	0.7719 (Maximum)		0.4614 (Minimum)	0.4857 (Nominal)	0.5099 (Maximum)		0.2819 (Minimum)	0.2967 (Nominal)	0.3116 (Maximum)
Phase	BS2 Window Sum CPS		Value	Phase	SS2 Window Sum CPS		Value	Phase	LS2 Window Sum CPS		Value
Before			2681.0	Before			1231.0	Before			1464
	25350 (Minimum)	26680 (Nominal)	28020 (Maximum)		11690 (Minimum)	12310 (Nominal)	12920 (Maximum)		1406 (Minimum)	1482 (Nominal)	1566 (Maximum)
Before: 13-Mar-2008 9:44											

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					1401	Before					1290	Before					1322
1309 (Minimum)				1409 (Nominal)	1509 (Maximum)	1187 (Minimum)				1287 (Nominal)	1387 (Maximum)	1218 (Minimum)				1318 (Nominal)	1418 (Maximum)
Before: 13-Mar-2008 9:44																	

High resolution Integrated Logging Tool-DTS2 Wellsite Calibration											
Crystal Quality Resolutions Calibration											
BS2 Crystal Resolution %			Value	SS2 Crystal Resolution %			Value	LS2 Crystal Resolution %			Value
Before			11.06	Before			8.946	Before			8.487
10.11 (Minimum)	11.11 (Nominal)	12.11 (Maximum)		7.873 (Minimum)	8.873 (Nominal)	9.873 (Maximum)		7.383 (Minimum)	8.383 (Nominal)	9.383 (Maximum)	
Before: 13-Mar-2008 9:44											

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				3848	Before				3815	Before				3819
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	
Before: 13-Mar-2008 9:20														

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				177.8	Before				284.8
		152.4 (Minimum)	203.2 (Nominal)	254.0 (Maximum)			228.6 (Minimum)	304.8 (Nominal)	381.0 (Maximum)
Before: 13-Mar-2008 9:16									

High resolution Integrated Logging Tool-DTS2 Master Calibration							
Inversion results							
Phase	Rho Aluminum K/M3		Value	Phase	Rho Magnesium K/M3		Value
Master			2594	Master			1689
	2586 (Minimum)	2596 (Nominal)	2606 (Maximum)		1676 (Minimum)	1686 (Nominal)	1696 (Maximum)
Phase	Pe Aluminum		Value	Phase	Pe Magnesium		Value
Master			2.548	Master			2.625
	2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)		2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)
Master: 11-Mar-2008 12:56							

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			0.3377	Master			0.7287	Master			0.8299
	-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	BS2 Max Deviation %		Value	Phase	SS2 Max Deviation %		Value	Phase	LS2 Max Deviation %		Value
Master			1.026	Master			1.377	Master			1.992
	-1.600 (Minimum)	0 (Nominal)	1.600 (Maximum)		-2.500 (Minimum)	0 (Nominal)	2.500 (Maximum)		-3.500 (Minimum)	0 (Nominal)	3.500 (Maximum)
Master: 11-Mar-2008 12:56											

Scintillation Gamma Ray Tool - N / Equipment Identification			
Primary Equipment:			
Scintillation Gamma Cartridge	SGC - TB	10388	
Scintillation Gamma Detector	SGD - TAB		
Auxiliary Equipment:			
Scintillation Gamma Housing	SGH - K	3161	
Gamma Source Radioactive	GSR - U/Y		

Scintillation Gamma Ray Tool - N Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		10.66	Before		165.2	Before		167.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	150.2 (Minimum)	165.2 (Nominal)	180.2 (Maximum)	152.0 (Minimum)	167.0 (Nominal)	182.0 (Maximum)
Before: 13-Mar-2008 8:59								

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: **HUSKY OIL OPERATIONS LIMITED**

Schlumberger

Well: **HUSKY et al KEELE RIVER L-52**

Field: **NORTH CLOVERLEAF**

Province: **NORTHWEST TERRITORIES**

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