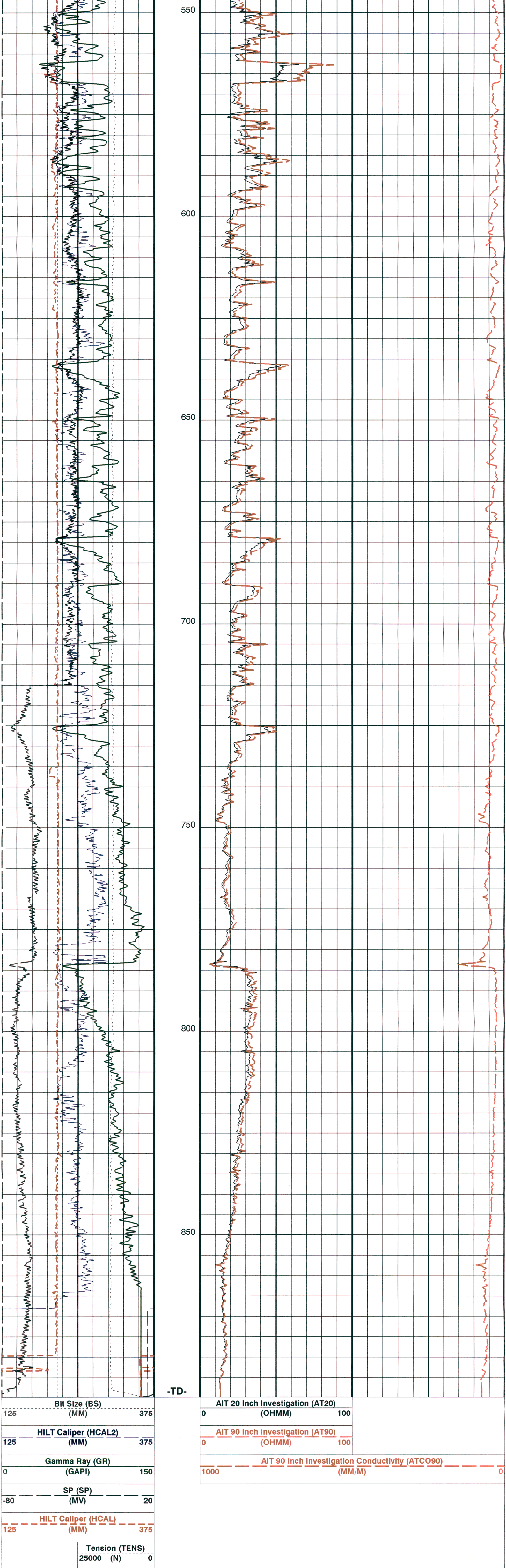




PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	900	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	No	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	M
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AIGS	Array Induction Select Akima Interpolation Gating	On	
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	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ASTA	Array Induction Tool Standoff	38	MM
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
SHT	Surface Hole Temperature	20	DEGC
SPNV	SP Next Value	0	MV
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
SHT	Surface Hole Temperature	20	DEGC
CMRT-B: Combinable Magnetic Resonance Tool - B			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	

SHT	Surface Hole Temperature	20	DEGC
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
SHT	Surface Hole Temperature	20	DEGC
SGT-N: Scintillation Gamma Ray Tool - N			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
SHT	Surface Hole Temperature	20	DEGC
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			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
SHT	Surface Hole Temperature	20	DEGC
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
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	21.83	DEGC
PP	Playback Processing	NORMAL	
TD	Total Depth	888.3	M

Format: COND Vertical Scale: 1:600 Graphics File Created: 19-Mar-2008 01:22

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

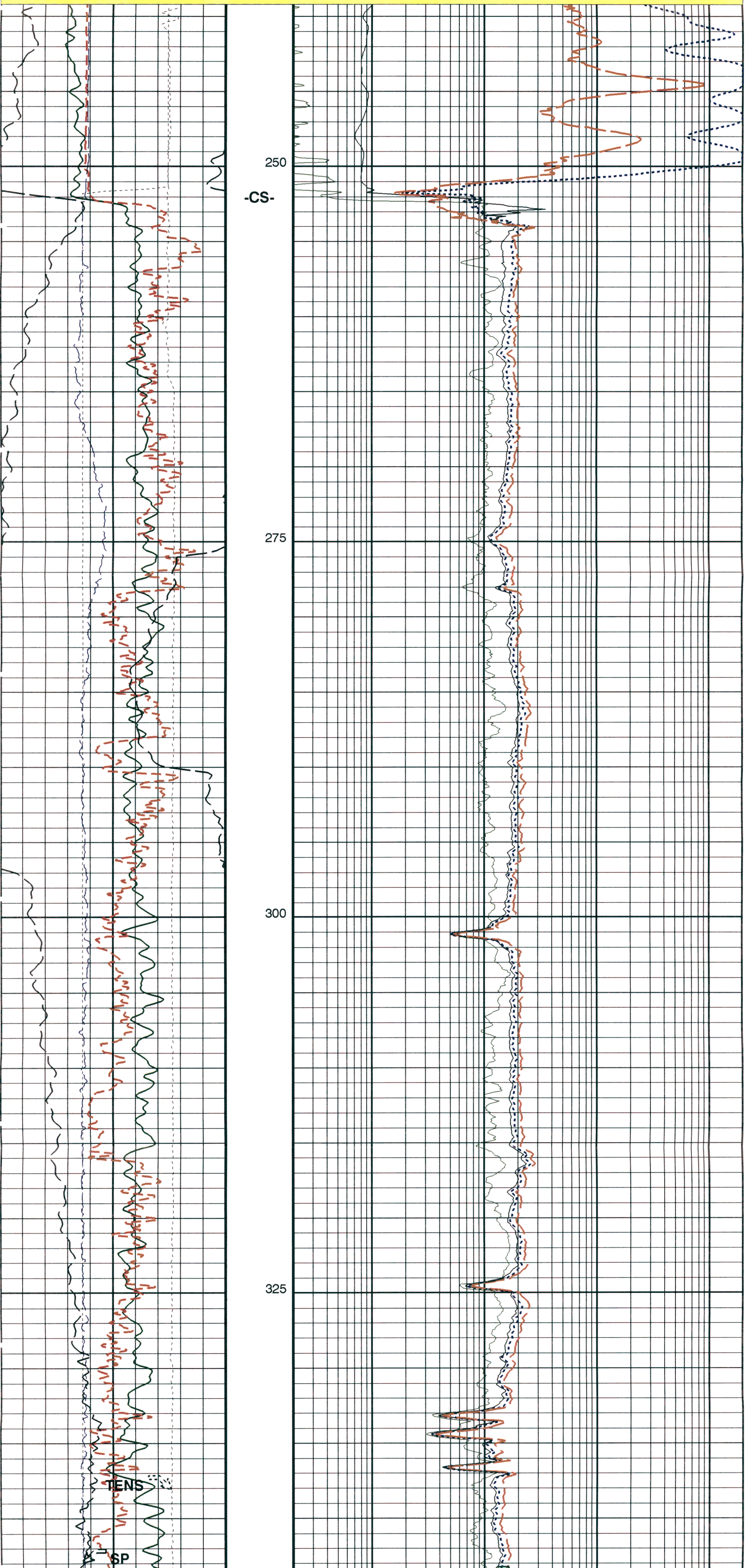
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Output DLIS Files						
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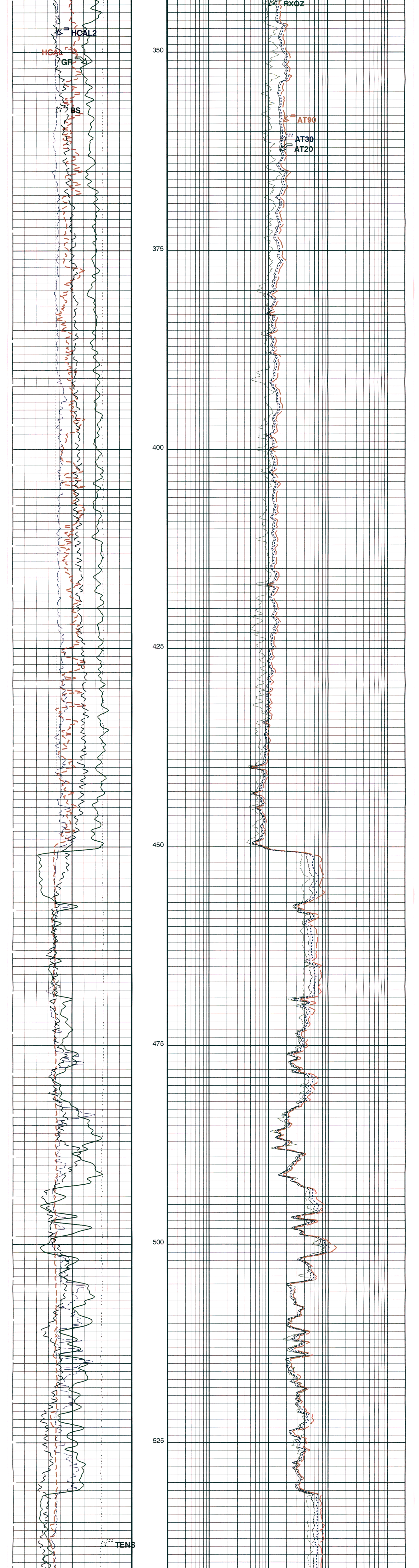
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Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21		
OP System Version: 15C0-309						
MCM						
AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007			
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL			
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007			
SGT-N	15C0-309	DTC-H	9397			

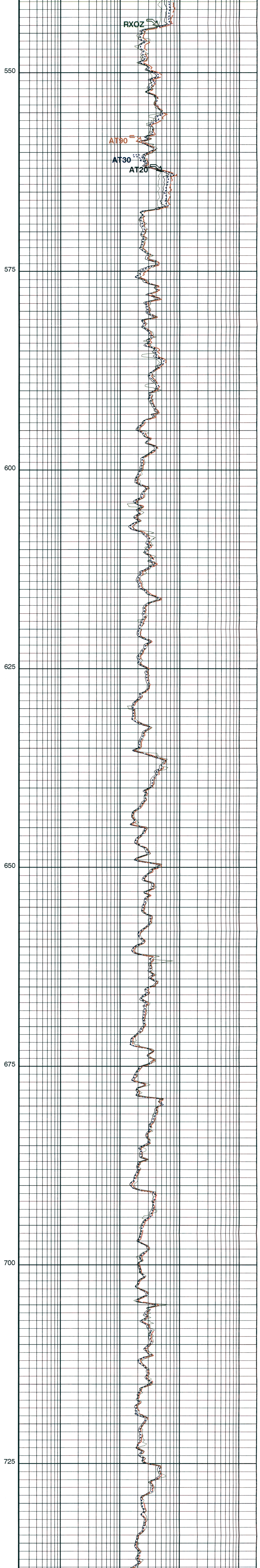
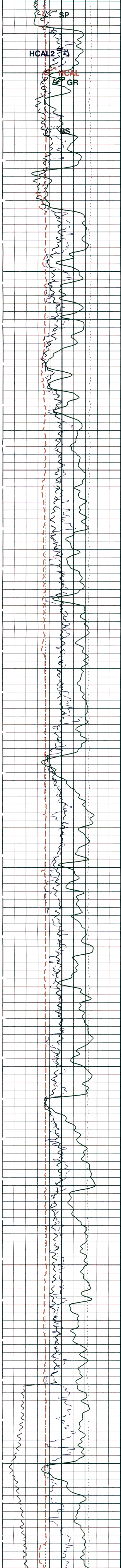
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DLIS Name	New Value	Previous Value	Depth & Time	
BS	311.000 MM	216.000 MM	251.6 01:30:12	

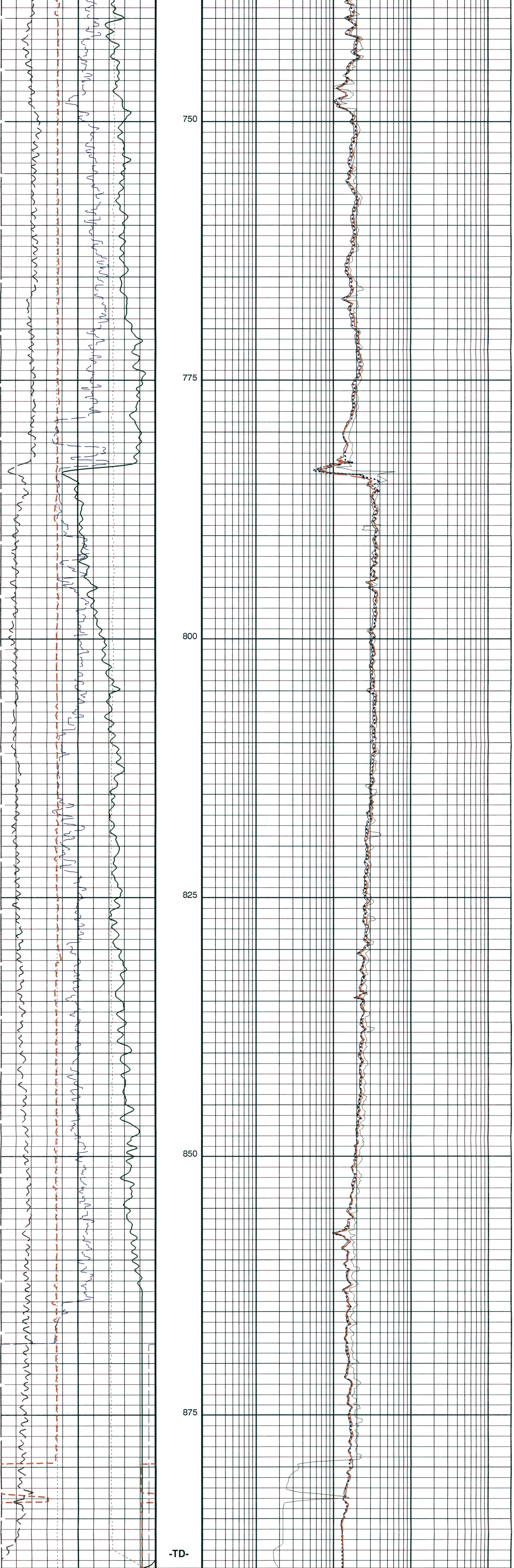
PIP SUMMARY		
Time Mark Every 60 S		
Tension (TENS)		
25000 (N)		0
HILT Caliper (HCAL)		
125 (MM)		375
SP (SP)		
-80 (MV)		20
Gamma Ray (GR)		
0 (GAPI)		150
HILT Caliper (HCAL2)		
125 (MM)		375
Bit Size (BS)		
125 (MM)		375
Std. Res. Invaded Zone Resistivity (RXOZ)		
0.2 (OHMM)		2000
AIT 90 Inch Investigation (AT90)		
0.2 (OHMM)		2000
AIT 30 Inch Investigation (AT30)		
0.2 (OHMM)		2000
AIT 20 Inch Investigation (AT20)		
0.2 (OHMM)		2000

MAIN PASS - INDUCTION









MAIN PASS - INDUCTION

125	Bit Size (BS) (MM)	375	0.2	AIT 20 Inch Investigation (AT20) (OHMM)	2000
125	HILT Caliper (HCAL2) (MM)	375	0.2	AIT 30 Inch Investigation (AT30) (OHMM)	2000
0	Gamma Ray (GR) (GAPI)	150	0.2	AIT 90 Inch Investigation (AT90) (OHMM)	2000
-80	SP (SP) (MV)	20	0.2	Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)	2000
125	HILT Caliper (HCAL) (MM)	375			
	Tension (TENS) 25000 (N)	0			

PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	900	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	No	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	M
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AIGS	Array Induction Select Akima Interpolation Gating	On	
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	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ASTA	Array Induction Tool Standoff	38	MM
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	20
SHT	Surface Hole Temperature		DEGC
SPNV	SP Next Value		0
	HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHT	Bottom Hole Temperature (used in calculations)		25
FEXP	Form Factor Exponent		2
FNUM	Form Factor Numerator		1
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	
MPOF	MCFL Processing Operation Mode		ON
SHT	Surface Hole Temperature		20
	CMRT-B: Combinable Magnetic Resonance Tool - B		
BHT	Bottom Hole Temperature (used in calculations)		25
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	
SHT	Surface Hole Temperature		20
	HILTH2-FTB: High resolution Integrated Logging Tool-DTS2		
BHT	Bottom Hole Temperature (used in calculations)		25
FEXP	Form Factor Exponent		2
FNUM	Form Factor Numerator		1
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	
SHT	Surface Hole Temperature		20
	SGT-N: Scintillation Gamma Ray Tool - N		
BHT	Bottom Hole Temperature (used in calculations)		25
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	
SHT	Surface Hole Temperature		20
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point		0
TIMD	Along-hole depth of Tie-in Point		260
TIVD	TVD of Tie-in Point		260
	HOLEV: Integrated Hole/Cement Volume		
BHT	Bottom Hole Temperature (used in calculations)		25
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	
SHT	Surface Hole Temperature		20
	System and Miscellaneous		
BS	Bit Size		216.000
DFD	Drilling Fluid Density		1095.00
DO	Depth Offset for Playback		0.0
DORL	Depth Offset for Repeat Analysis		0.0
FLEV	Fluid Level		-50000.00
MST	Mud Sample Temperature		21.83
PP	Playback Processing		NORMAL
TD	Total Depth		888.3

Format: AIT Vertical Scale: 1:240 Graphics File Created: 19-Mar-2008 01:22

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

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Output DLIS Files

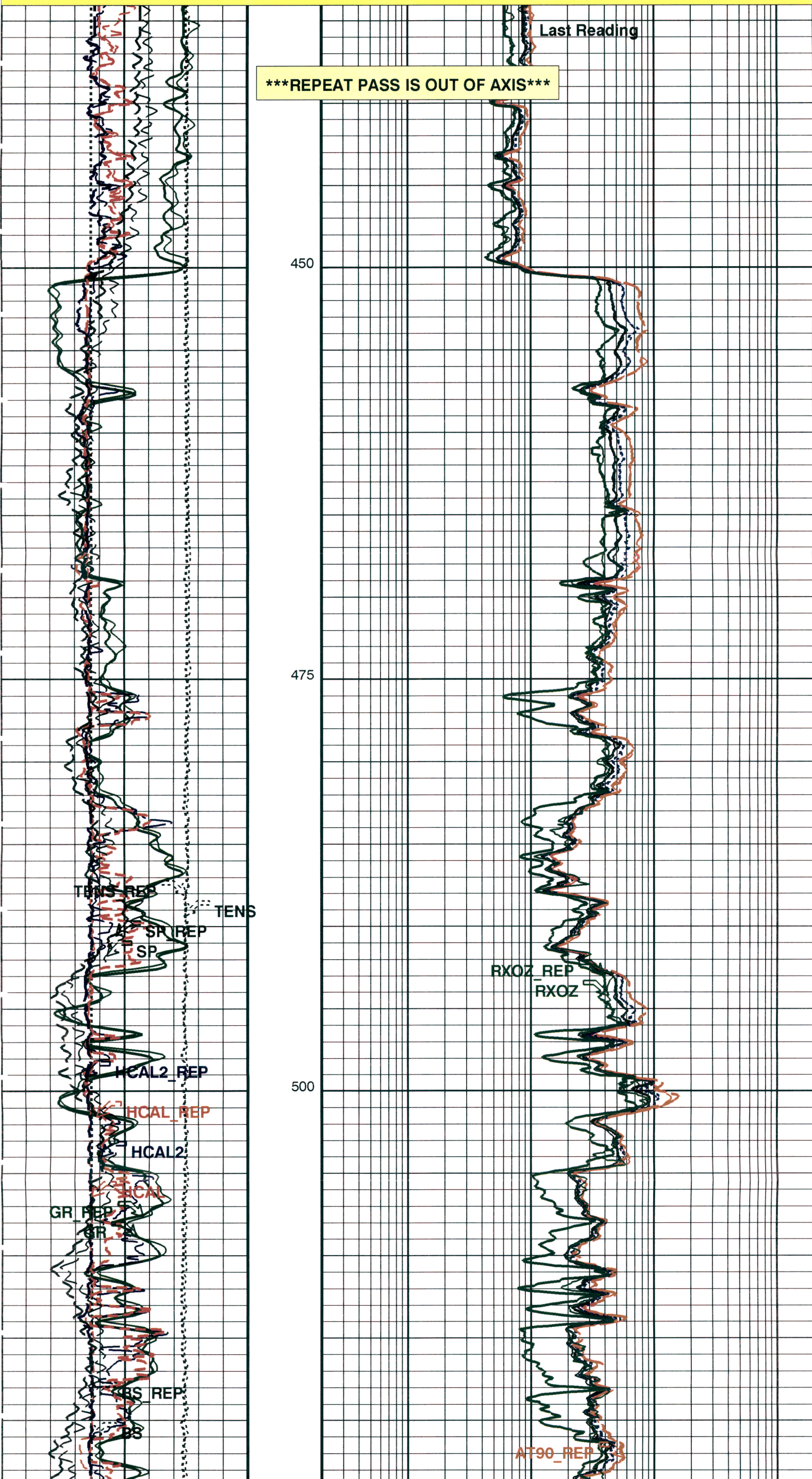
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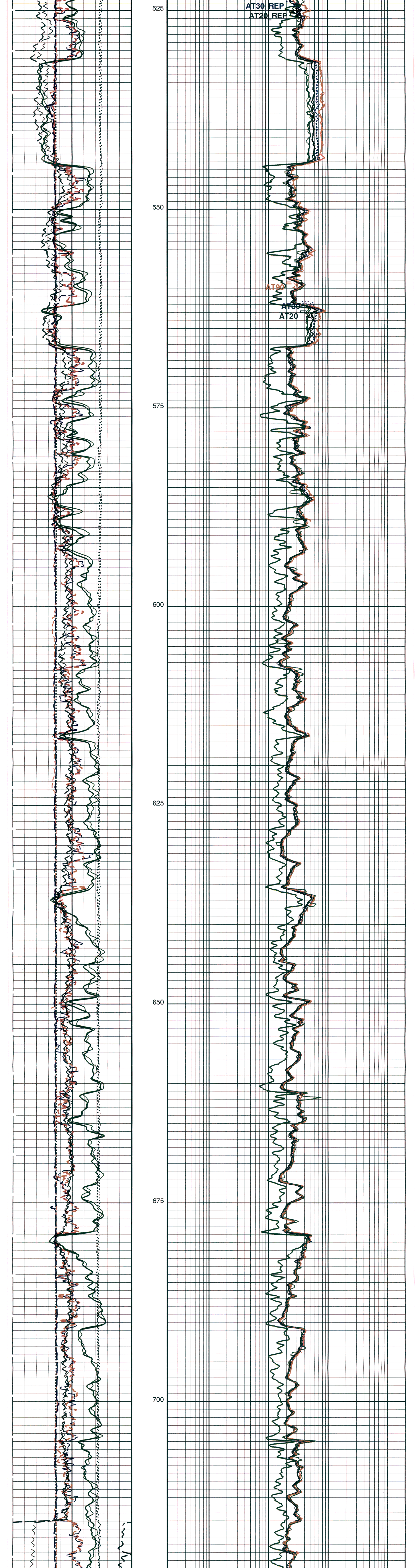
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OP System Version: 15C0-309			
MCM			
AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397

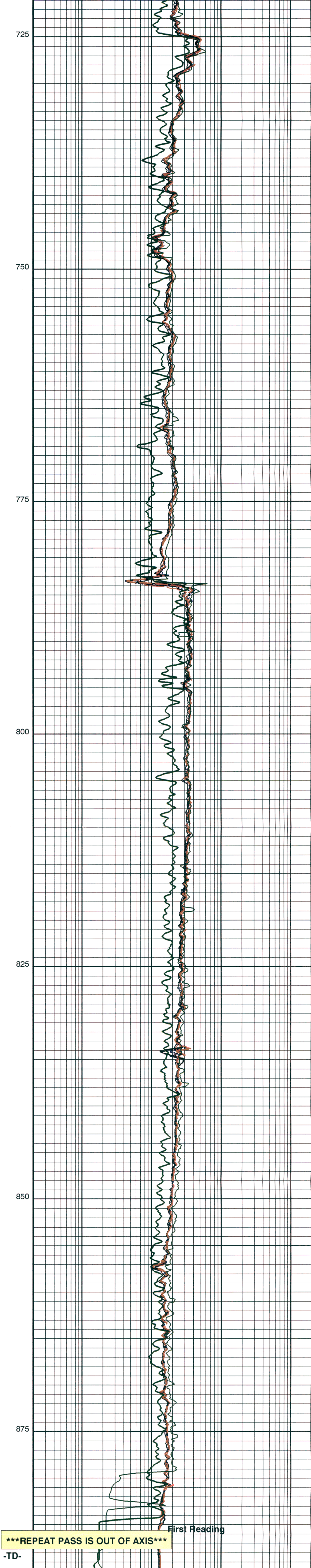
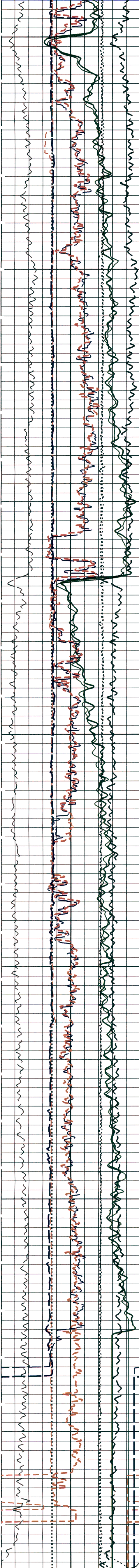
PIP SUMMARY

☒ Time Mark Every 60 S	
TENS_REP Curve (TENS_REP) 25000 (N)	
SP_REP Curve (SP_REP) -80 (MV) 20	
HCAL2_REP Curve (HCAL2_REP) 125 (MM) 375	RXOZ_REP Curve (RXOZ_REP) 0.2 (OHMM) 2000
HCAL_REP Curve (HCAL_REP) 125 (MM) 375	AT90_REP Curve (AT90_REP) 0.2 (OHMM) 2000
GR_REP Curve (GR_REP) 0 (GAPI) 150	AT30_REP Curve (AT30_REP) 0.2 (OHMM) 2000
BS_REP Curve (BS_REP) 125 (MM) 375	AT20_REP Curve (AT20_REP) 0.2 (OHMM) 2000

REPEAT ANALYSIS INDUCTION







REEPAT ANALYSIS INDUCTION

BS REP Curve (BS REP)		
125	(MM)	375
GR REP Curve (GR REP)		
0	(GAPI)	150
HCAL REP Curve (HCAL REP)		
125	(MM)	375
HCAL2 REP Curve (HCAL2 REP)		
125	(MM)	375
SP REP Curve (SP REP)		
-80	(MV)	20
TENS REP Curve (TENS REP)		
25000	(N)	0

AT20 REP Curve (AT20 REP)		
0.2	(OHMM)	2000
AT30 REP Curve (AT30 REP)		
0.2	(OHMM)	2000
AT90 REP Curve (AT90 REP)		
0.2	(OHMM)	2000
RXOZ REP Curve (RXOZ REP)		
0.2	(OHMM)	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
AIT-M	AIT-M: Array Induction Tool - M	
ABHM	Array Induction Barohole Correction Mode	3 ComputeStandoff

ABHV	Array Induction Borehole Correction Code Version Number	6_One_Two_and_Four	900	
ABLM	Array Induction Basic Logs Mode		223	
ABLV	Array Induction Basic Logs Code Version Number		223	
ACDE	Array Induction Casing Detection Enable		No	
ACEN	Array Induction Tool Centering Flag (in Borehole)		Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth		-50000	M
AETP	Array Induction Enable Sonde Error Temp&Pres Corr		Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20		
AIGS	Array Induction Select Akima Interpolation Gating		On	
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	
ARPV	Array Induction Radial Parametrization Code Version Number		232	
ASTA	Array Induction Tool Standoff		38	MM
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20		
ATSE	Array Induction Temperature Selection(Sonde Error Correction)		Internal	
AULV	Array Induction User Level Control		Normal	
BHT	Bottom Hole Temperature (used in calculations)		25	DEGC
FEXP	Form Factor Exponent		2	
FNUM	Form Factor Numerator		1	
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	
SHT	Surface Hole Temperature		20	DEGC
SPNV	SP Next Value		0	MV
HILTH-FTB: High resolution Integrated Logging Tool-DTS				
BHT	Bottom Hole Temperature (used in calculations)		25	DEGC
FEXP	Form Factor Exponent		2	
FNUM	Form Factor Numerator		1	
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	
MPOF	MCFL Processing Operation Mode		ON	
SHT	Surface Hole Temperature		20	DEGC
CMRT-B: Combinable Magnetic Resonance Tool - B				
BHT	Bottom Hole Temperature (used in calculations)		25	DEGC
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	
SHT	Surface Hole Temperature		20	DEGC
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2				
BHT	Bottom Hole Temperature (used in calculations)		25	DEGC
FEXP	Form Factor Exponent		2	
FNUM	Form Factor Numerator		1	
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	
SHT	Surface Hole Temperature		20	DEGC
SGT-N: Scintillation Gamma Ray Tool - N				
BHT	Bottom Hole Temperature (used in calculations)		25	DEGC
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	
SHT	Surface Hole Temperature		20	DEGC
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				
BHT	Bottom Hole Temperature (used in calculations)		25	DEGC
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	
SHT	Surface Hole Temperature		20	DEGC
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
FLEV	Fluid Level		-50000.00	M
MST	Mud Sample Temperature		21.83	DEGC
PP	Playback Processing		NORMAL	
TD	Total Depth		888.3	M

Format: AIT_REP

Vertical Scale: 1:240

Graphics File Created: 19-Mar-2008 01:22

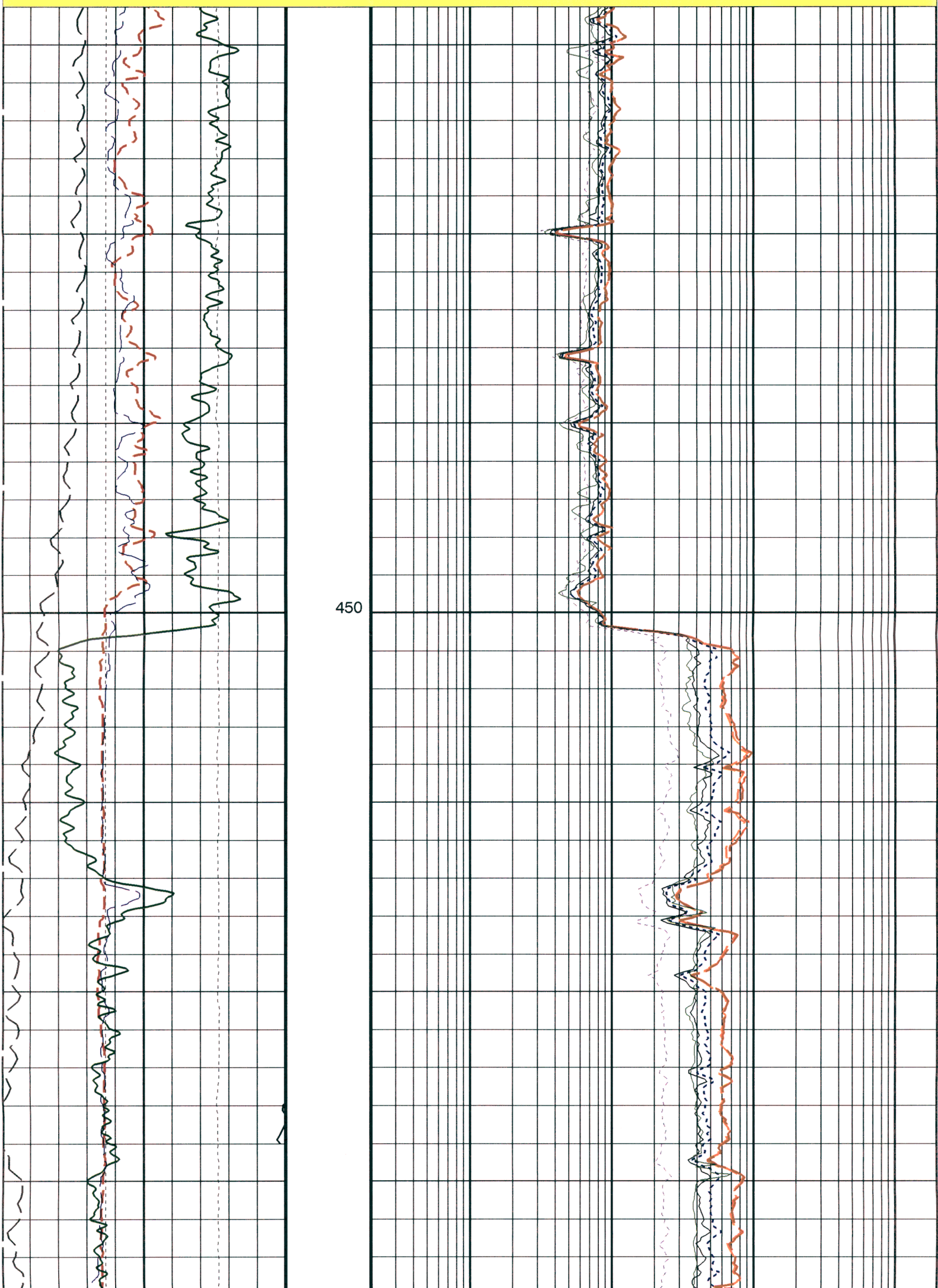
OP System Version: 15C0-309			
MCM			
AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SPC-3530-NUCL
ECC-B	SPC-3530-NUCL	HILTH2-FTB	SRPC-3402-Q3_2007
SGT-N	15C0-309	DTC-H	9397

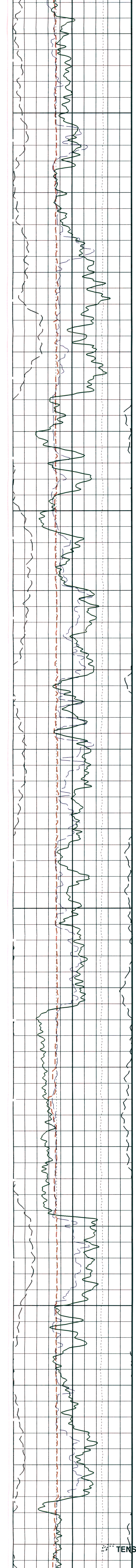
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Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21		

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_093PUP	FN:152	PRODUCER	19-Mar-2008 01:50	888.9 M	426.3 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						
Time Mark Every 60 S						
Tension (TENS)		H. Res. Invaded Zone Resistivity (RX08)				
25000 (N)		0	0.2		2000 (OHMM)	
HILT Caliper (HCAL)		AIT 90 Inch Investigation (AO90)				
125 (MM)		375	0.2		2000 (OHMM)	
SP (SP)		AIT 60 Inch Investigation (AO60)				
-80 (MV)		20	0.2		2000 (OHMM)	
High res- Gamma ray (HGR)		AIT 30 Inch Investigation (AO30)				
0 (GAPI)		150	0.2		2000 (OHMM)	
HILT Caliper (HCAL2)		AIT 20 Inch Investigation (AO20)				
125 (MM)		375	0.2		2000 (OHMM)	
Bit Size (BS)		AIT 10 Inch Investigation (AO10)				
125 (MM)		375	0.2		2000 (OHMM)	

HIGH RESOLUTION PASS - INDUCTION



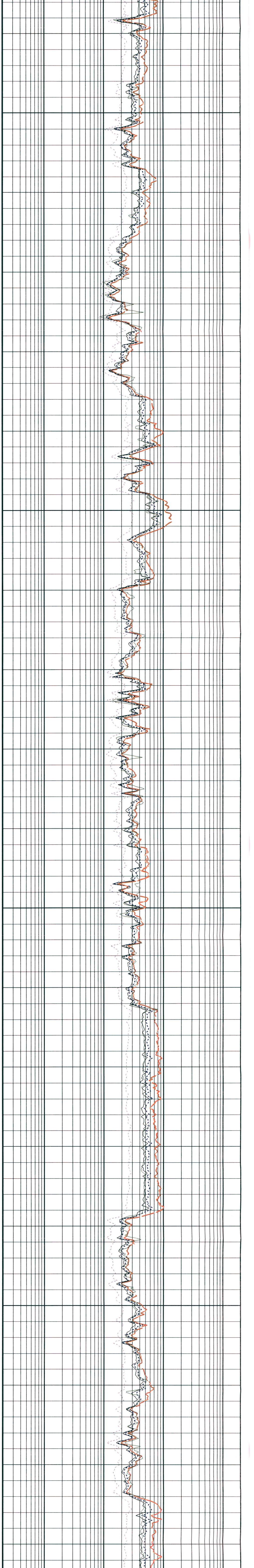


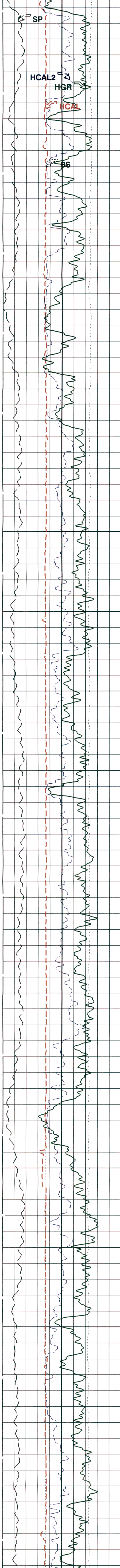
475

500

525

550



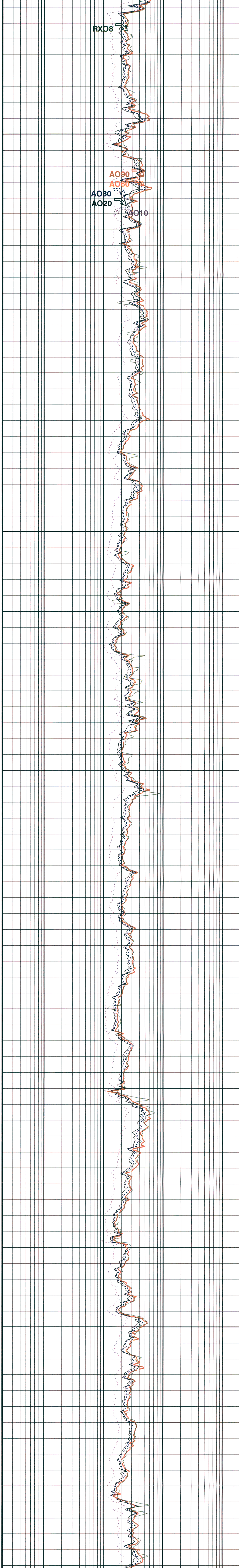


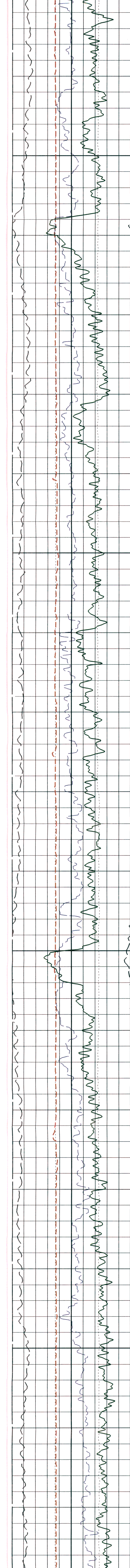
575

600

625

650



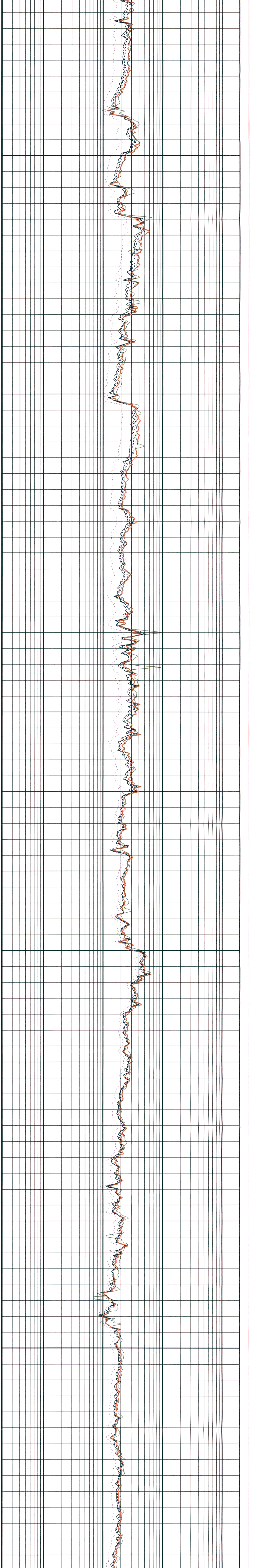


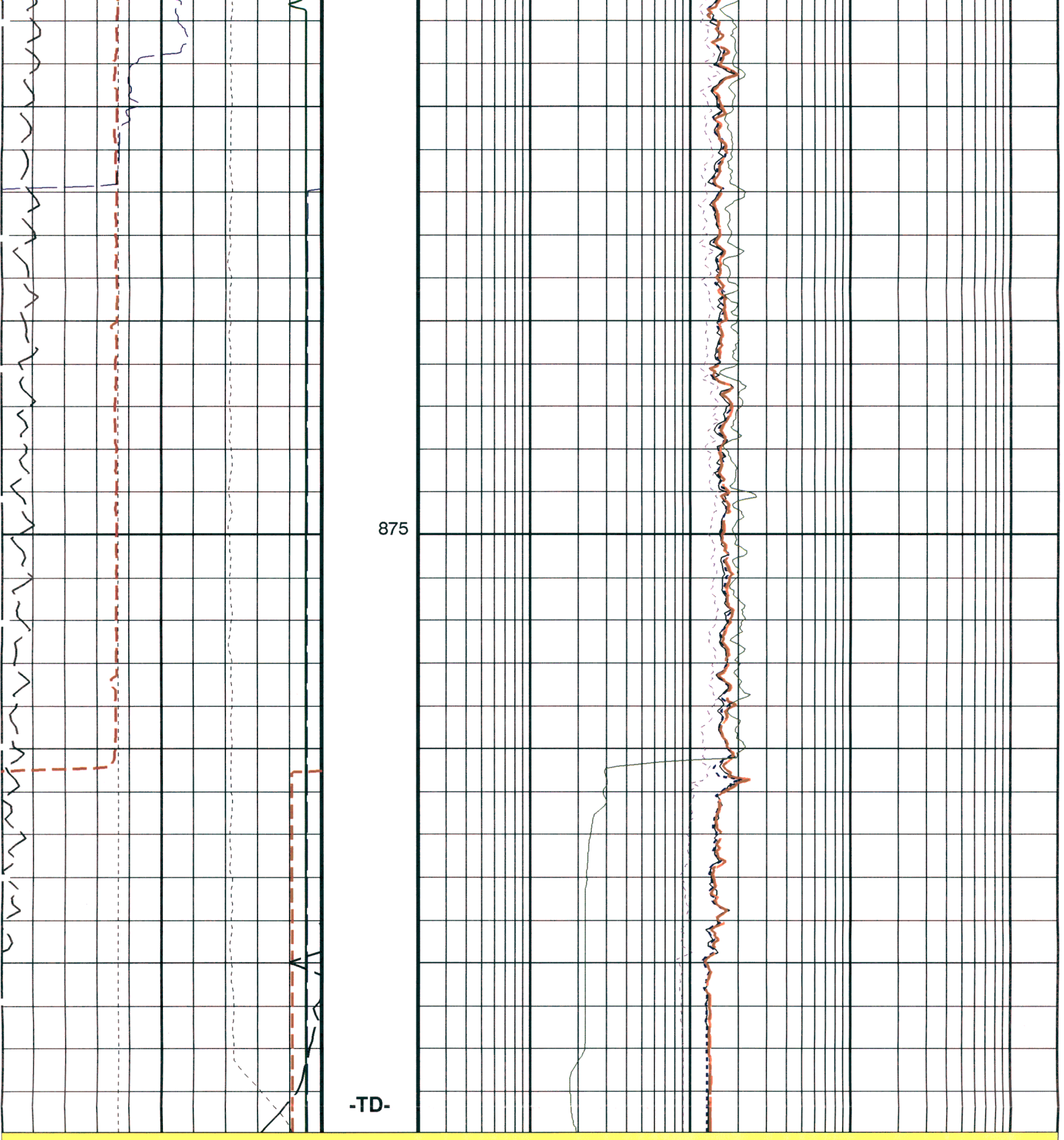
675

700

725

750





HIGH RESOLUTION PASS - INDUCTION

Bit Size (BS) (MM)		AIT 10 Inch Investigation (AO10) (OHMM)	
125	375	0.2	2000
HILT Caliper (HCAL2) (MM)		AIT 20 Inch Investigation (AO20) (OHMM)	
125	375	0.2	2000
High res- Gamma ray (HGR) (GAPI)		AIT 30 Inch Investigation (AO30) (OHMM)	
0	150	0.2	2000
SP (SP) (MV)		AIT 60 Inch Investigation (AO60) (OHMM)	
-80	20	0.2	2000
HILT Caliper (HCAL) (MM)		AIT 90 Inch Investigation (AO90) (OHMM)	
125	375	0.2	2000
Tension (TENS) 25000 (N)		H. Res. Invaded Zone Resistivity (RXO8) (OHMM)	
	0	0.2	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	900	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	No	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	M
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AIGS	Array Induction Select Akima Interpolation Gating	On	
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	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ASTA	Array Induction Tool Standoff	38	MM
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
SHT	Surface Hole Temperature	20	DEGC
SPNV	SP Next Value	0	MV
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
MPOF	MCFL Processing Operation Mode	ON	
SHT	Surface Hole Temperature	20	DEGC
CMRT-B: Combinable Magnetic Resonance Tool - B			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
SHT	Surface Hole Temperature	20	DEGC
HILTH2-FTB: High resolution Integrated Logging Tool-DTS2			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
SHT	Surface Hole Temperature	20	DEGC
SGT-N: Scintillation Gamma Ray Tool - N			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
SHT	Surface Hole Temperature	20	DEGC
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			
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
SHT	Surface Hole Temperature	20	DEGC
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
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	21.83	DEGC
PP	Playback Processing	NORMAL	
TD	Total Depth	888.3	M

Format: AIT_HIRES Vertical Scale: 1:120 Graphics File Created: 19-Mar-2008 01:51

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_093PUP	FN:152	PRODUCER	19-Mar-2008 01:50		

Input DLIS Files						
DEFAULT	SPLICE_AIT_TLD_MCFL_044P	FN:1	PRODUCER	18-Mar-2008 14:56	889.7 M	0.5 M
Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER	19-Mar-2008 01:21	889.7 M	3.2 M

HRDD Processing Flags Statistical Analysis:					
Percentages computed on interval 2876.2 to 836.8 ft (876.7 to 255.1 m)					
Pef Flags Up	0.7 %				
Density Flags Up	0.0 %				
	Window 1	Window 2	Window 3	Window 4	
BS Average Reconstruction Error	1.50 %	0.87 %	0.80 %		
SS Average Reconstruction Error	-0.38 %	0.20 %	-0.05 %	-0.06 %	
LS Average Reconstruction Error	2.09 %	1.64 %	-0.14 %	-0.50 %	

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 01:30:15
BS	311.000 MM	216.000 MM	251.6 01:30:12
CCCO	YES	NO	251.6 01:30:19

PIP SUMMARY

Time Mark Every 60 S			
Std. Res. Resistivity Standoff (RSOZ) 65 (MM)0 HILT Caliper (HCAL) 125 (MM)375 Gamma Ray (GR) 0 (GAPI)150 Std. Res. Density Standoff (DSOZ) 65 (MM)0 Bit Size (BS) 125 (MM)375 HGNS Deviation (GDEV) -5 (DEG)45	Tension (TENS) (N)250000	AIT QC Fully Calibrated A8 Signal (AQABN[7]) 2 (MM/M)20000	Pe Correction (HPRA) -3 (----)3 BS Delta Rho (HDRB) -0.5 (G/C3)0.5 Density Correction (HDRA) -0.25 (G/C3)0.25 Hdrr (HDRX) 0.5 (----)1.5 Delta Neutron Porosity (DNPH) -0.1 (V/V)0.1 GR Borehole Correction Factor (CFGR) 0.5 (----)1.5
		AIT QC Fully Calibrated A7 Signal (AQABN[6]) 2 (MM/M)20000	
		AIT QC Fully Calibrated A6 Signal (AQABN[5]) 2 (MM/M)20000	
		AIT QC Fully Calibrated A5 Signal (AQABN[4]) 2 (MM/M)20000	
		AIT QC Fully Calibrated A4 Signal (AQABN[3]) 2 (MM/M)20000	
		AIT QC Fully Calibrated A3 Signal (AQABN[2]) 2 (MM/M)20000	
		AIT QC Fully Calibrated A2 Signal (AQABN[1]) 2 (MM/M)20000	
		AIT QC Fully Calibrated A1 Signal (AQABN[0]) 2 (MM/M)20000	
		MAIN PASS - LOG QUALITY IMAGE	

*** Flag Tracks ***

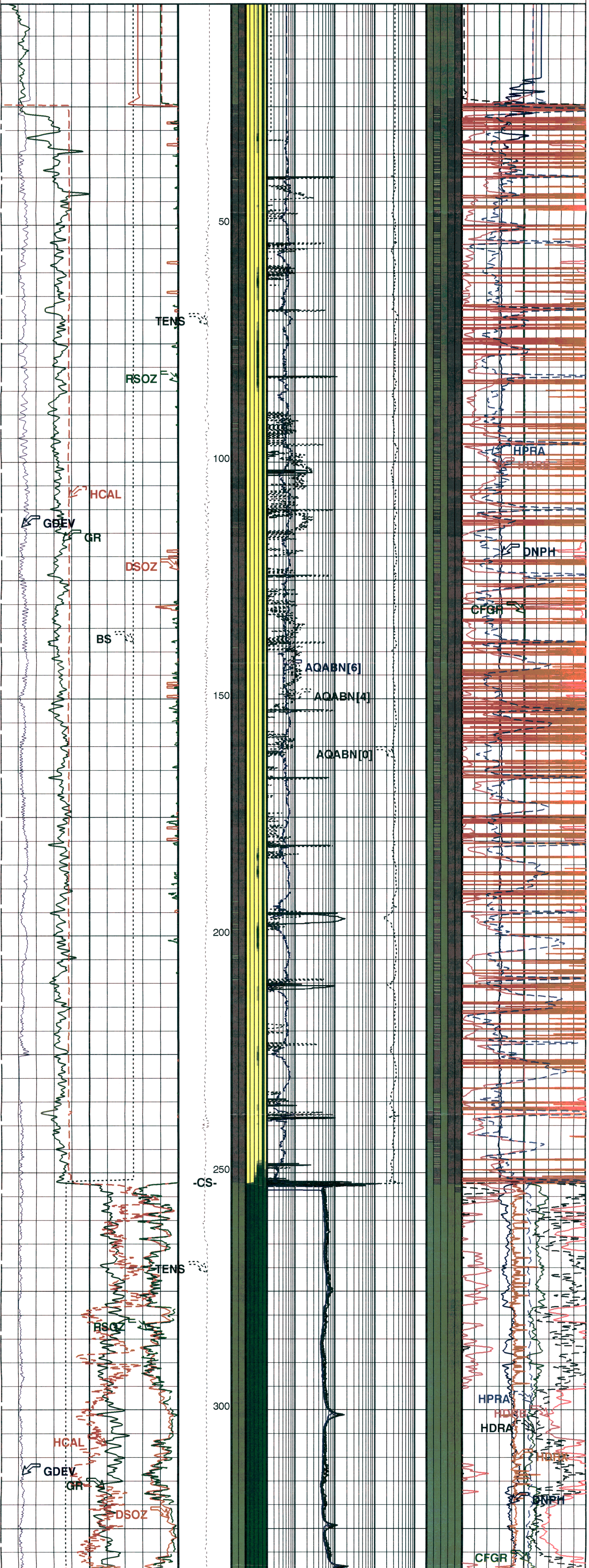
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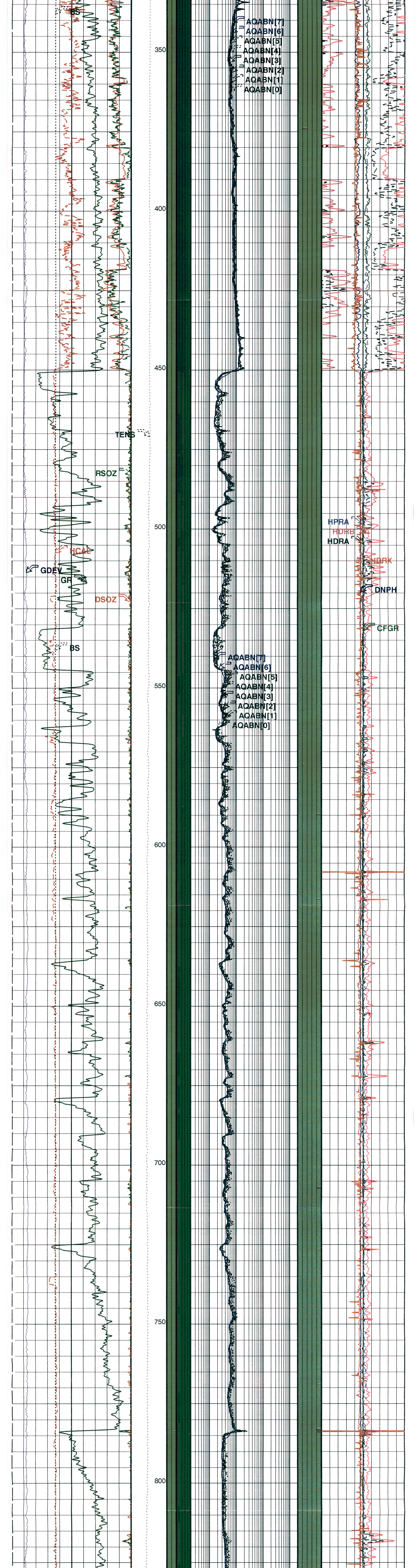
RESISTIVITY TRACK :

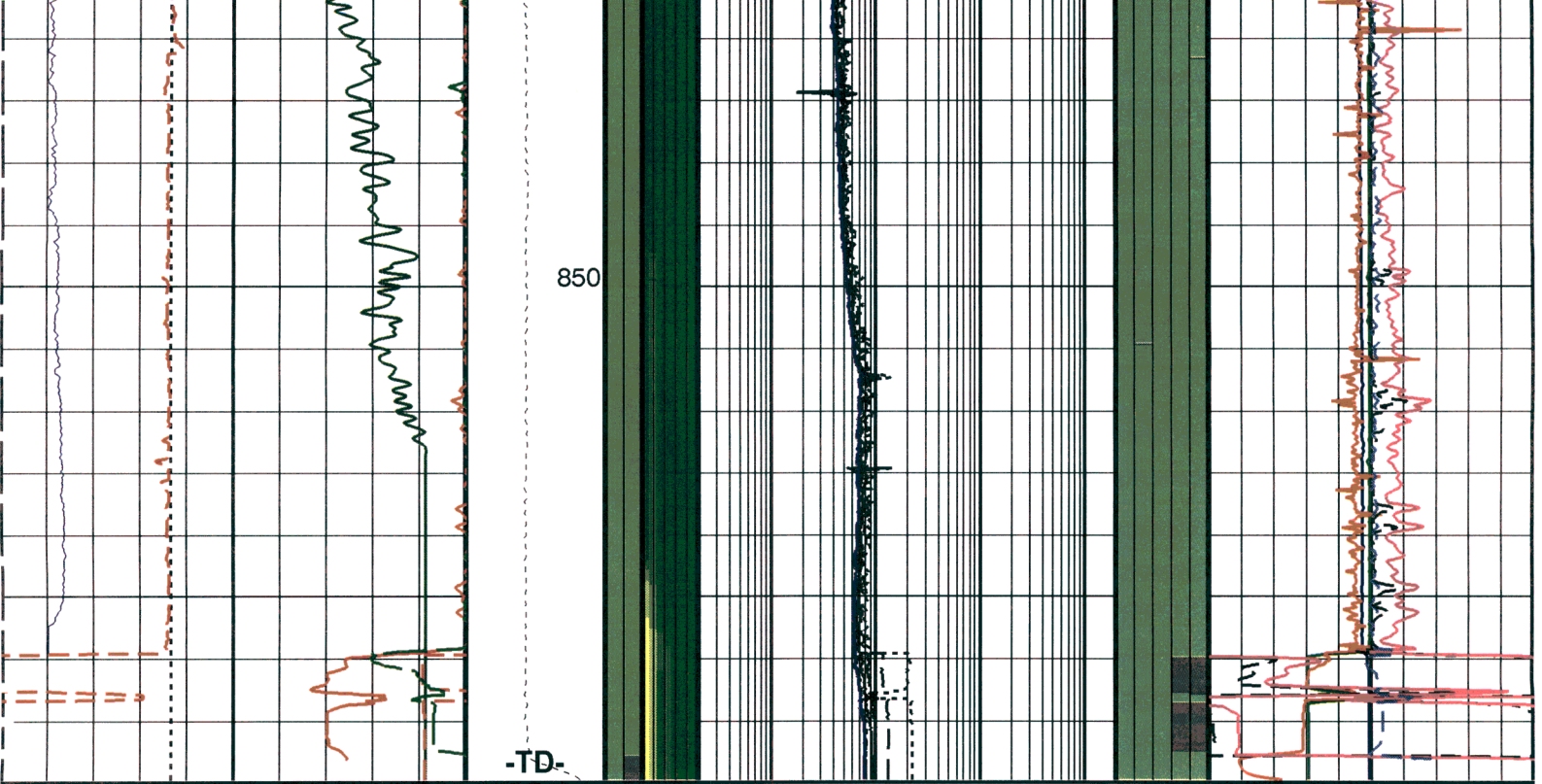
- MCFL Hardware
- RXO Processing
- HAIT Hardware
- HAIT Array[1-2]
- HAIT Array[3-4]
- HAIT Array[5-6]
- HAIT Array[7-8]

NUCLEAR TRACK :

- Accelerometer
- Density Detector
- Neutron Porosity
- Density Computation
- 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. Pef Computation			

MAIN PASS - LOG QUALITY IMAGE

HGNS Deviation (GDEV) -5 (DEG) 45		Tension (TENS) (N) 25000 0	AIT QC Fully Calibrated A1 Signal (AQABN[0]) 2 (MM/M) 20000	GR Borehole Correction Factor (CFGR) 0.5 (----) 1.5
Bit Size (BS) 125 (MM) 375			AIT QC Fully Calibrated A2 Signal (AQABN[1]) 2 (MM/M) 20000	Delta Neutron Porosity (DNPH) -0.1 (V/V) 0.1
Std. Res. Density Standoff (DSOZ) 65 (MM) 0			AIT QC Fully Calibrated A3 Signal (AQABN[2]) 2 (MM/M) 20000	Hdrr (HDRX) 0.5 (----) 1.5
Gamma Ray (GR) 0 (GAPI) 150			AIT QC Fully Calibrated A4 Signal (AQABN[3]) 2 (MM/M) 20000	Density Correction (HDRA) -0.25 (G/C3) 0.25
HILT Caliper (HCAL) 125 (MM) 375			AIT QC Fully Calibrated A5 Signal (AQABN[4]) 2 (MM/M) 20000	BS Delta Rho (HDBR) -0.5 (G/C3) 0.5
Std. Res. Resistivity Standoff (RSOZ) 65 (MM) 0			AIT QC Fully Calibrated A6 Signal (AQABN[5]) 2 (MM/M) 20000	Pe Correction (HPPRA) -3 (----) 3
			AIT QC Fully Calibrated A7 Signal (AQABN[6]) 2 (MM/M) 20000	
			AIT QC Fully Calibrated A8 Signal (AQABN[7]) 2 (MM/M) 20000	

PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2 ComputeStandoff	
ABLM	Array Induction Basic Logs Mode	6_One_Two and Four	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
ASTA	Array Induction Tool Standoff	38	MM
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
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	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	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	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
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	
CMRT-B: Combinable Magnetic Resonance Tool - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
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	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
NMT	HILT Nuclear Mud Type	NOBARITE	
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	
SGT-N: Scintillation Gamma Ray Tool - N			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
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	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
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
FLEV	Fluid Level	-50000.00	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: PEX_AITM_LQC Vertical Scale: 1:600 Graphics File Created: 19-Mar-2008 01:22

Input DLIS Files

DEFAULT	SPLICE AIT TLD MCFL 044P	FN:1	PRODUCER	18-Mar-2008 14:56	889.7 M	0.5 M
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Output DLIS Files

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

DEFAULT	SPLICE_AIT_TLD_MCFL_044P	FN:1	PRODUCER	18-Mar-2008 14:56	889.7 M	0.5 M
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Output 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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HRDD Processing Flags Statistical Analysis:

Percentages computed on interval 2876.2 to 836.8 ft (876.7 to 255.1 m)

Pef Flags Up	0.7 %			
Density Flags Up	0.0 %			
	Window 1	Window 2	Window 3	Window 4
BS Average Reconstruction Error	1.50 %	0.87 %	0.80 %	
SS Average Reconstruction Error	-0.38 %	0.20 %	-0.05 %	-0.06 %
LS Average Reconstruction Error	2.09 %	1.64 %	-0.14 %	-0.50 %

OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
CMRT-B	15C0-309	ECS-A	SRP-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 01:30:15
BS	311.000	MM	216.000	MM	251.6 01:30:12
CCCO	YES		NO		251.6 01:30:19

PIP SUMMARY

Time Mark Every 60 S

			AIT QC Fully Calibrated A8 Signal (AQABN[7])					
			2 (MM/M)			20000		
			AIT QC Fully Calibrated A7 Signal (AQABN[6])					
			2 (MM/M)			20000		
			AIT QC Fully Calibrated A6 Signal (AQABN[5])					
			2 (MM/M)			20000		
			AIT QC Fully Calibrated A5 Signal (AQABN[4])					
			2 (MM/M)			20000		
			AIT QC Fully Calibrated A4 Signal (AQABN[3])					
			2 (MM/M)			20000		
			AIT QC Fully Calibrated A3 Signal (AQABN[2])					
			2 (MM/M)			20000		
			AIT QC Fully Calibrated A2 Signal (AQABN[1])					
			2 (MM/M)			20000		
			AIT QC Fully Calibrated A1 Signal (AQABN[0])					
			2 (MM/M)			20000		
Std. Res. Resistivity Standoff (RSOZ)			Pe Correction (HPRA2)					
65 (MM) 0			-3 (----) 3					
HILT Caliper (HCAL2)			BS Delta Rho (HDRB2)					
125 (MM) 375			-0.5 (G/C3) 0.5					
Gamma Ray (GR)			Density Correction (HDRA2)					
0 (GAPI) 150			-0.25 (G/C3) 0.25					
Std. Res. Density Standoff (DSOZ)			Hdrr (HDRX)					
65 (MM) 0			0.5 (----) 1.5					
Bit Size (BS)			Delta Neutron Porosity (DNPH)					
125 (MM) 375			-0.1 (V/V) 0.1					
HGNS Deviation (GDEV)			GR Borehole Correction Factor (CFGR)					
-5 (DEG) 45			0.5 (----) 1.5					
Tension (TENS) (N) 0								

MAIN PASS - LOG QUALITY IMAGE

*** Flag Tracks ***

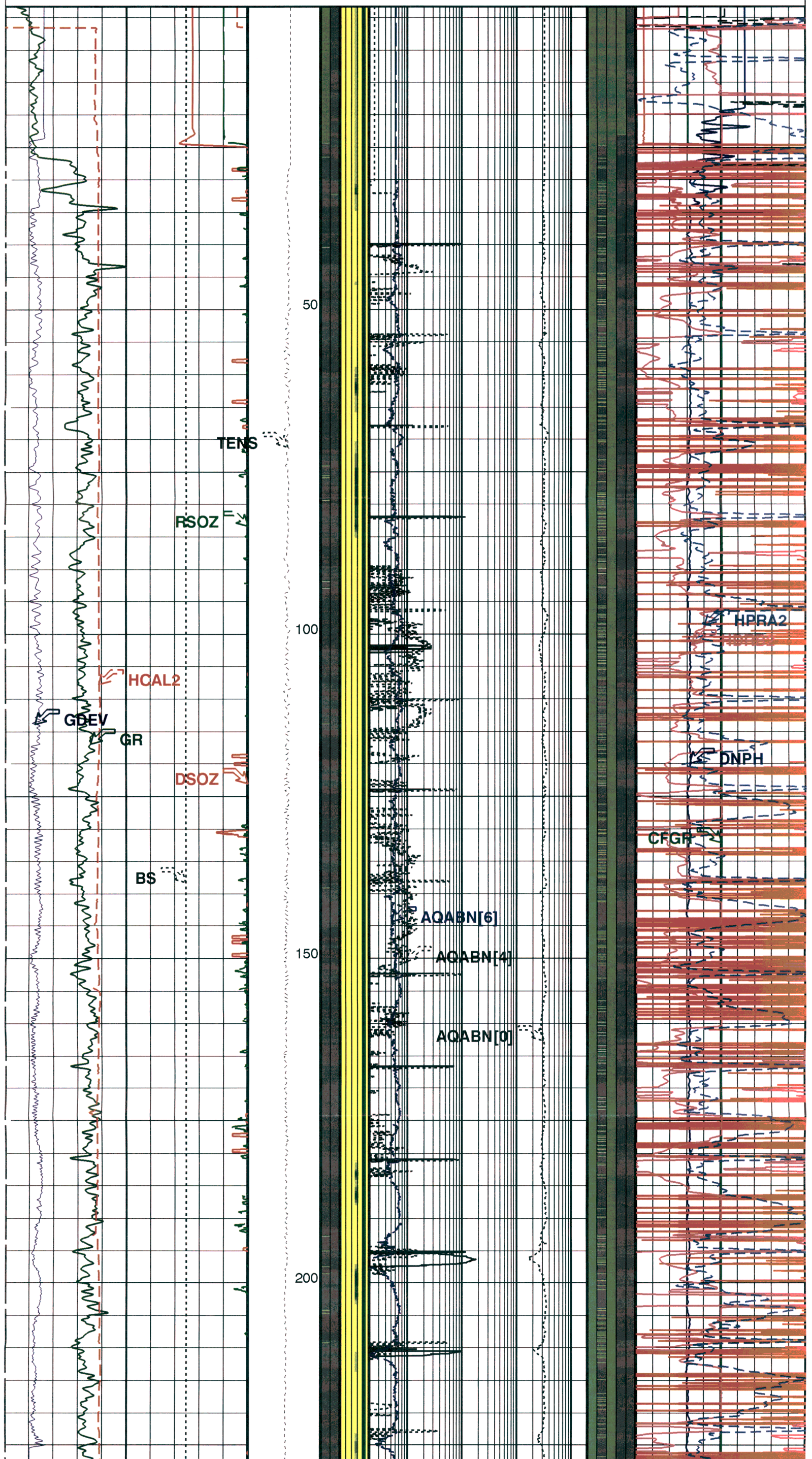
White – Absent Green – Good Yellow – Warn Red/Black – Bad

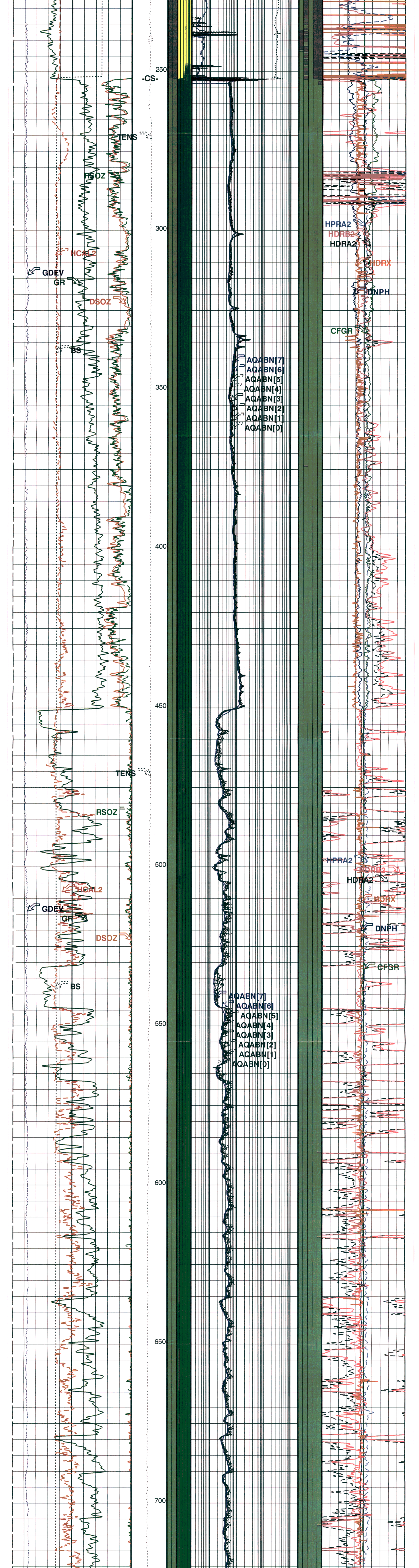
RESISTIVITY TRACK :

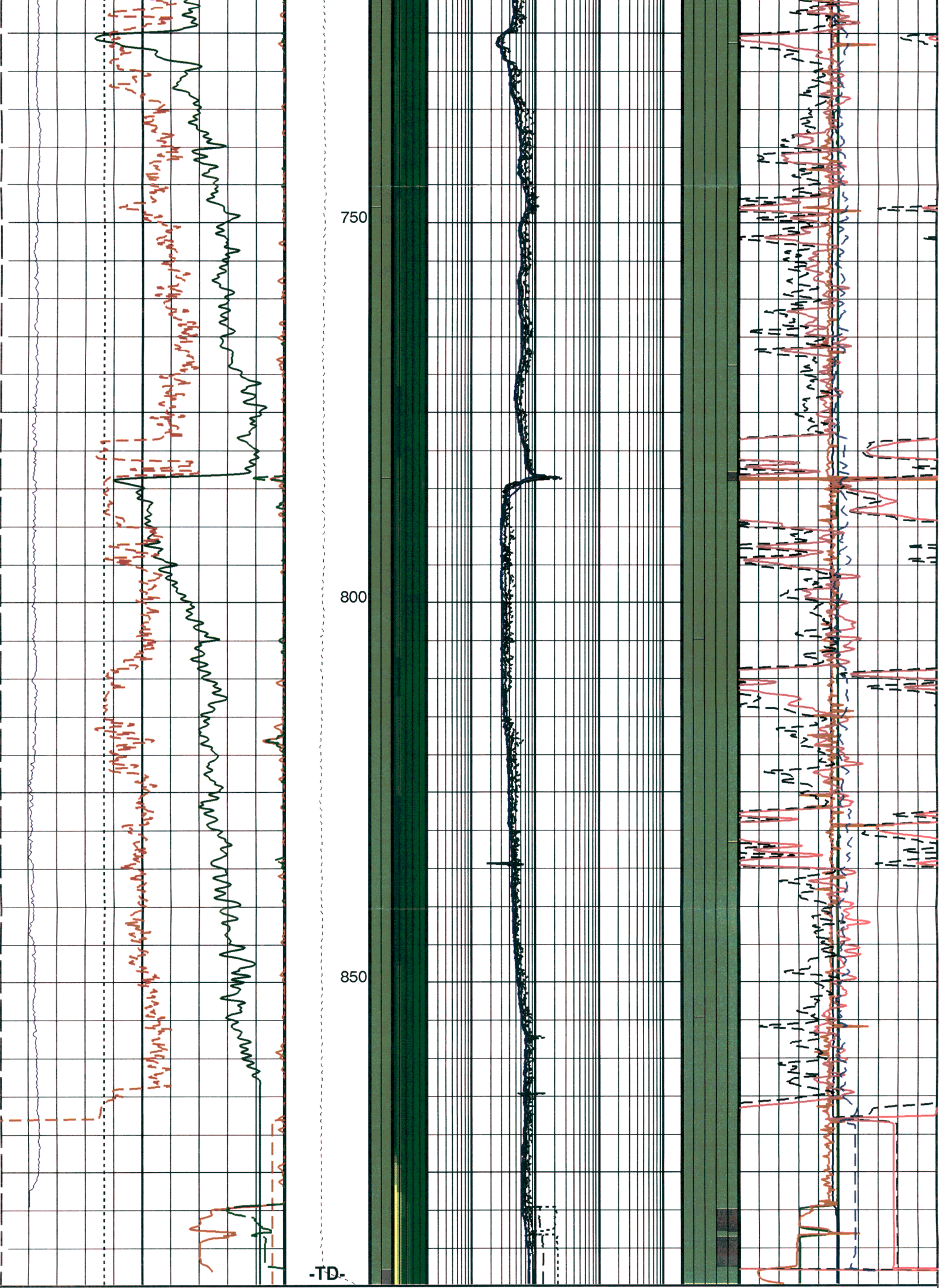
1. MCFL Hardware
2. RXO Processing
3. HAIT Hardware
4. HAIT Array[1-2]
5. HAIT Array[3-4]
6. HAIT Array[5-6]
7. HAIT Array[7-8]

NUCLEAR TRACK :

1. Accelerometer
2. Density Detector
3. Neutron Porosity
4. Density Computation
5. 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
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MAIN PASS - LOG QUALITY IMAGE

HGNS Deviation (GDEV) -5 (DEG) 45		Tension (TENS) (N) 25000 0	AIT QC Fully Calibrated A1 Signal (AQABN[0]) 2 (MM/M) 20000	GR Borehole Correction Factor (CFGR) 0.5 (----) 1.5
Bit Size (BS) 125 (MM) 375			AIT QC Fully Calibrated A2 Signal (AQABN[1]) 2 (MM/M) 20000	Delta Neutron Porosity (DNPH) -0.1 (V/V) 0.1
Std. Res. Density Standoff (DSOZ) 65 (MM) 0			AIT QC Fully Calibrated A3 Signal (AQABN[2]) 2 (MM/M) 20000	Hdrr (HDRX) 0.5 (----) 1.5
Gamma Ray (GR) 0 (GAPI) 150			AIT QC Fully Calibrated A4 Signal (AQABN[3]) 2 (MM/M) 20000	Density Correction (HDRA2) -0.25 (G/C3) 0.25
HILT Caliper (HCAL2) 125 (MM) 375			AIT QC Fully Calibrated A5 Signal (AQABN[4]) 2 (MM/M) 20000	BS Delta Rho (HDBR2) -0.5 (G/C3) 0.5
Std. Res. Resistivity Standoff (RSOZ) 65 (MM) 0			AIT QC Fully Calibrated A6 Signal (AQABN[5]) 2 (MM/M) 20000	Pe Correction (HPPA2) -3 (----) 3
			AIT QC Fully Calibrated A7 Signal (AQABN[6]) 2 (MM/M) 20000	
			AIT QC Fully Calibrated A8 Signal (AQABN[7]) 2 (MM/M) 20000	

PIP SUMMARY

Time Mark Every 60 S

Parameters		Value	
DLIS Name	Description		
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2	ComputeStandoff
ABLM	Array Induction Basic Logs Mode	6	One_Two_and_Four
ACEN	Array Induction Tool Centering Flag (in Borehole)		Eccentered
AETP	Array Induction Enable Sonde Error Temp&Pres Corr		Yes
AIGS	Array Induction Select Akima Interpolation Gating		On
AMRF	Array Induction Mud Resistivity Factor	1	
ASTA	Array Induction Tool Standoff	38	MM
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
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	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
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	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOF	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	
CMRT-B: Combinable Magnetic Resonance Tool - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
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	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
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	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOF	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	
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
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	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
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	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
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	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
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
FLEV	Fluid Level	-50000.00	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: PEX_AITM_LQC2 Vertical Scale: 1:600 Graphics File Created: 19-Mar-2008 01:22			
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_044P	FN:1	PRODUCER 18-Mar-2008 14:56 889.7 M 0.5 M
Output DLIS Files			
DEFAULT	AIT_TLD_MCFL_CNL_092PUP	FN:151	PRODUCER 19-Mar-2008 01:21

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 Pl	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 (Jig - Bkg)	172.4	N/A	172.4	N/A	N/A	15.67	GAPI
Gamma Ray (Calibrated)	167.0	N/A	167.0	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool-DTS Wellsite Calibration - Zero Measurement							
Master: 15-Jan-2008 15:00 Before: 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	CPS
BS2 Window Sum	26680	N/A	26810	N/A	N/A	N/A	
SS2 Window Ratio	0.4857	N/A	0.4877	N/A	N/A	N/A	
SS2 Window Sum	12310	N/A	12310	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)		-3.000 (Minimum)	3.000 (Maximum)
1	1.009		0.6555		
		0.9500 (Minimum)		-3.000 (Minimum)	3.000 (Maximum)
2	1.011		0.07487		
		0.9500 (Minimum)		-3.000 (Minimum)	3.000 (Maximum)
3	1.006		0.2048		
		0.9500 (Minimum)		-3.000 (Minimum)	3.000 (Maximum)
4	0.9843		0.2139		
		0.9500 (Minimum)		-3.000 (Minimum)	3.000 (Maximum)
5	0.9821		-0.2228		
		0.9500 (Minimum)		-3.000 (Minimum)	3.000 (Maximum)
6	0.9903		0.2038		
		0.9500 (Minimum)		-3.000 (Minimum)	3.000 (Maximum)
7	1.006		0.05547		
		0.9500 (Minimum)		-3.000 (Minimum)	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)		-2250 (Minimum)	2250 (Maximum)
1	169.8		-74.96		
		114.0 (Minimum)		-625.0 (Minimum)	625.0 (Maximum)
2	104.4		-116.9		
		66.00 (Minimum)		-350.0 (Minimum)	350.0 (Maximum)
3	59.64		54.31		
		39.00 (Minimum)		-250.0 (Minimum)	250.0 (Maximum)
4	25.99		3.746		
		15.00 (Minimum)		-63.00 (Minimum)	63.00 (Maximum)
5	11.84		11.94		
		4.000 (Minimum)		-50.00 (Minimum)	50.00 (Maximum)
6	9.606		1.909		
		5.000 (Minimum)		-30.00 (Minimum)	30.00 (Maximum)
7	-1.451		2.924		
		-5.000 (Minimum)		-30.00 (Minimum)	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)		0.8000 (Minimum)	1.200 (Maximum)
1	1.039		1.040		
		0.8000 (Minimum)		0.8000 (Minimum)	1.200 (Maximum)
2	1.039		1.040		
		0.8000 (Minimum)		0.8000 (Minimum)	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	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)
Phase	LS Window Ratio		Value	Phase	LS Window Sum CPS		Value
Before			0.2973	Before			1518
	0.2847 (Minimum)	0.2996 (Nominal)	0.3146 (Maximum)		1445 (Minimum)	1521 (Nominal)	1597 (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	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			10.53	Before			172.4	Before			167.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		156.7 (Minimum)	172.4 (Nominal)	188.1 (Maximum)		152.0 (Minimum)	167.0 (Nominal)	182.0 (Maximum)
Before: 13-Mar-2008 9:01											

Phase	Pe Aluminum	Value	Phase	Pe Magnesium	Value
Master		2.559	Master		2.612
	2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)	2.550 (Minimum)	2.650 (Nominal)
		2.750 (Maximum)			
Master: 10-Mar-2008 15:02					

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				0.5046	Master				0.3721	Master				0.8273
	-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				1.523	Master				0.9547	Master				1.671
	-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: 10-Mar-2008 15:02														

High resolution Integrated Logging Tool-DTS Master Calibration							
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														

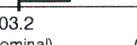
Elemental Capture Spectroscopy Tool / Equipment Identification			
Primary Equipment:			
ECS Sonde	ECS - A	20	20
ECS Detector Package	ECSD - A	20	20
ECS AmBe Source	NSR - F	1498	1498
Auxiliary Equipment:			
ECS Sonde Housing	ECSH - A	20	20

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	PC1 Radius 1 Raw	Small Radius	MM	Value	Phase	PC1 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	PC1 Radius 2 Raw	Small Radius	MM	Value	Phase	PC1 Radius 2 Raw	Large Radius	MM	Value
Before				85.19	Before				197.3
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Phase	PC1 Radius 3 Raw	Small Radius	MM	Value	Phase	PC1 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	PC1 Radius 4 Raw	Small Radius	MM	Value	Phase	PC1 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					26810	Before					12310	Before					1464
25350 (Minimum)		26680 (Nominal)			28020 (Maximum)	11690 (Minimum)		12310 (Nominal)			12920 (Maximum)	1408 (Minimum)		1482 (Nominal)			1556 (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)			Value	Phase	SS2 PM High Voltage (Command)			Value	Phase	LS2 PM High Voltage (Command)			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														
Phase	BS2 Crystal Resolution %			Value	Phase	SS2 Crystal Resolution %			Value	Phase	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)			

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		0.3377	Master		0.7287	Master		0.8299			
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (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
Before				10.66	Before				165.2
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)			150.2 (Minimum)	165.2 (Nominal)	180.2 (Maximum)	
Before: 13-Mar-2008 8:59									
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)	

DTS Telemetry Tool / Equipment Identification

Primary Equipment:				
DTC-H Auxiliary Cartridge			DTCH - A	9397
DTC-H Telemetry Cartridge			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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