

Company: SANDIA TECHNOLOGIES, LLC

Well: NYSTA TANDEM LOT 1

Field: WILDCAT

County: ROCKLAND

State: NEW YORK

**PLATFORM EXPRESS
ARRAY INDUCTION
GAMMA RAY / CALIPER**

County: ROCKLAND
Field: WILDCAT
Location: LAT: 41.1039
Well: NYSTA TANDEM LOT 1
Company: SANDIA TECHNOLOGIES, LLC

LOCATION		LAT: 41.1039	Elev.: K.B. 402.00 ft
		LONG: -74.027	G.L. 386.00 ft
			D.F. 402.00 ft
Permanent Datum:	GROUND LEVEL	Elev.: 386.00 ft	
Log Measured From:	KELLY BUSHING	16.00 ft above Perm. Datum	
Drilling Measured From:	KELLY BUSHING		
API Serial No.	Section	Township	QUAD
31-087-27016-00-00		CLARKSTOWN	

Logging Date	31-Aug-2011	
Run Number	1	
Depth Driller	1528 ft	
Schlumberger Depth	1500 ft	
Bottom Log Interval	1492 ft	
Top Log Interval	0 ft	
Casing Driller Size @ Depth	13.375 in @ 603 ft	
Casing Schlumberger	602 ft	
Bit Size	12.250 in	
Type Fluid In Hole	FRESH WATER BASED MUD	
Density	9.3 lbm/gal	
Fluid Loss	PH	
Source Of Sample	MEASURED	
RM @ Measured Temperature	6.690 ohm.m @ 77 degF	
RMF @ Measured Temperature	5.017 ohm.m @ 77 degF	
RMC @ Measured Temperature	10.035 ohm.m @ 77 degF	
Source RMF	CALCULATED	
RM @ MRT	7.490 @ 68 5.617 @ 68	
Maximum Recorded Temperatures	68 degF	
Circulation Stopped	Time	
Logger On Bottom	31-Aug-2011 Time 1:02	
Unit Number	3039 BRADFORD	
Recorded By	TIM ZOTARA	
Witnessed By	DAN COLLINS	

Logging Date		Run 1	Run 2	Run 3
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth				
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
Density				
Fluid Loss				
Source Of Sample				
RM @ Measured Temperature		@	@	
RMF @ Measured Temperature		@	@	
RMC @ Measured Temperature		@	@	
Source RMF				
RM @ MRT		@	@	
Maximum Recorded Temperatures				
Circulation Stopped				
Logger On Bottom				
Unit Number				
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 31-AUG-2011 1:45:23

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 2828 Calibration Date: 1-JAN-2011 Calibrator Serial Number: 33 Calibration Cable Type: 7-39P LXS Wheel Correction 1: -5 Wheel Correction 2: -4	Type: CMTD-B/A Serial Number: 2929 Calibration Date: 2-AUG-2011 Calibrator Serial Number: 1095 Number of Calibration Points: 10 Calibration RMS: 45 Calibration Peak Error: 71	Type: 7-39P LXS Serial Number: 3039 Length: 13300 FT <hr/> Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence: First Log In the Well
Rig Up Length At Surface:
Rig Up Length At Bottom:
Rig Up Length Correction:
Stretch Correction:
Tool Zero Check At Surface: 0.50 FT

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES FOLLOWED
2. IDW USED AS PRIMARY DEPTH DEVICE
3. Z-CHART USED AS SECONDARY DEPTH DEVICE
- 4.
- 5.
- 6.

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1: PEX-AIT	OS1:
OS2: CMR-ECS-HNGS	OS2:
OS3: PPC-SSCAN-FMI	OS3:
OS4: MDT-MSCT	OS4:
OS5: CBL/VDL-USIT	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
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THANK YOU FOR CHOOSING SCHLUMBERGER

TOOLS RUN AS PER TOOL SKETCH, W/BOWSPRING & STANDOFFS ON AIT
ALL WELLSITE DATA, PERMIT, MUD REPORT, SOP PROVIDED BY CLIENT

RUN1: PEX-AIT	RUN2: CMR-ECS-HNGS	RUN3: PPC-SSCAN-FMI
RUN4: MSCT	RUN5: MDT	RUN6: CBL/VDL-USIT

RUN4: MSC1 RUN5: MDT RUN6: CDEVDL-031

GEO REQUESTED MATR = SANDSTONE / MDEN = 2.65 G/CC

3 MAX TEMP THERMOMETERS RUN IN HEAD, PER RUN, MAX TEMP FROM HTEM.

RUN1 LOGGED AT: REPEAT & MAIN @ 1600'/HR

SLB CREW: THIMLAR / CANNON

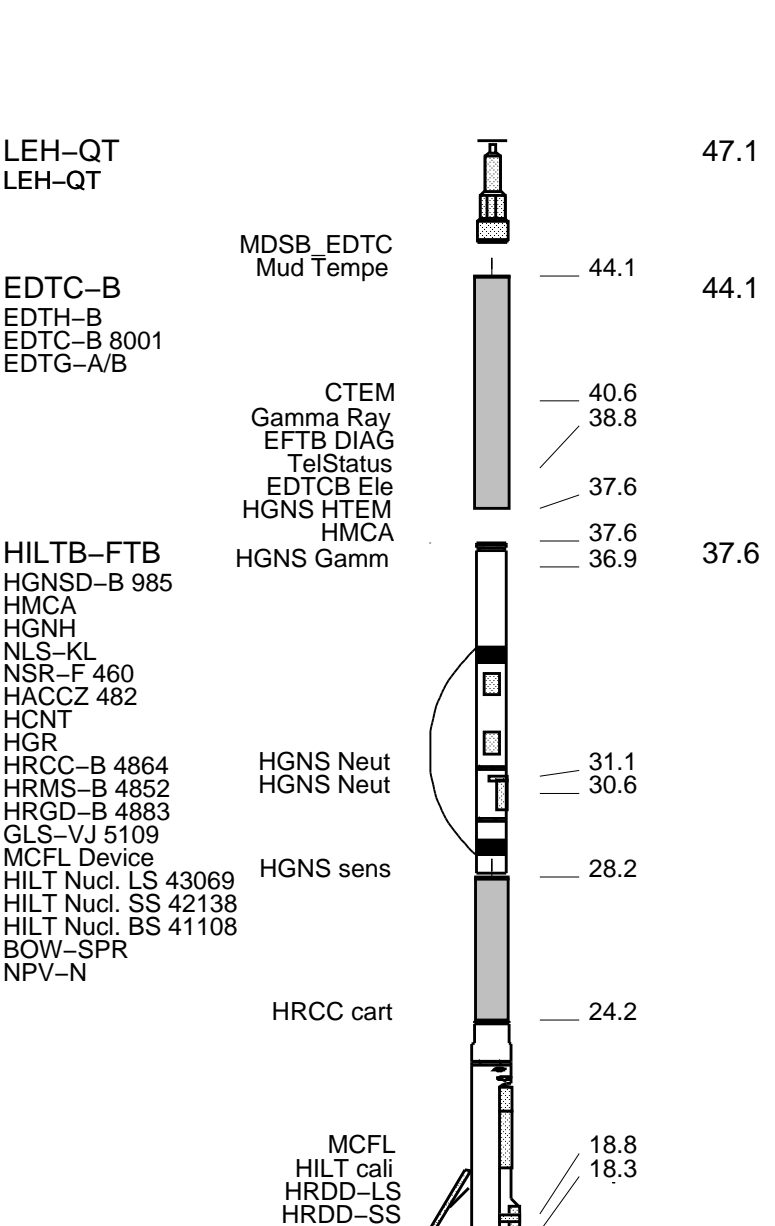
RUN 1			RUN 2		
SERVICE ORDER #:		AXPS-00185	SERVICE ORDER #:		
PROGRAM VERSION:		19C0-187	PROGRAM VERSION:		
FLUID LEVEL:		0 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1 RUN 2

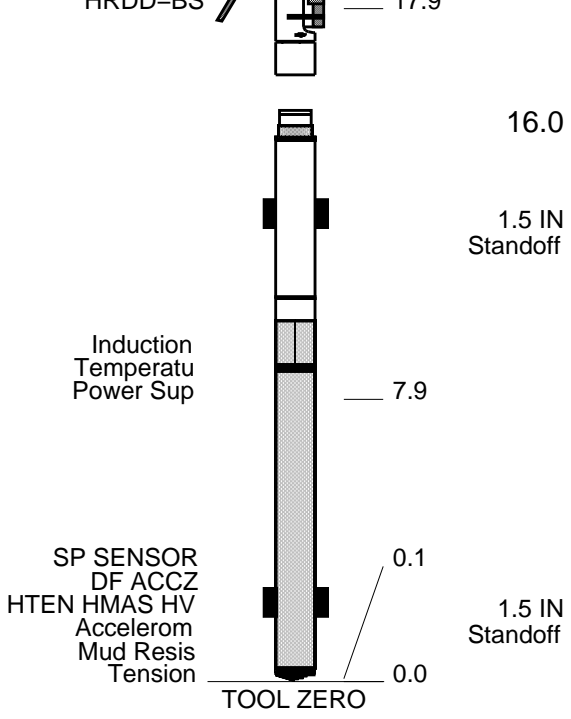
SURFACE EQUIPMENT
 WITM (EDTS)-A
 GSR-U 1289
 NCT-B
 CNB-AB
 NCS-VB

DOWNHOLE EQUIPMENT



RUN 2

HAIT-H
AHIS-BA 266
AHRM-A



MAXIMUM STRING DIAMETER 6.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET



MAIN 2"

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_014LUP	FN:18	PRODUCER	31-Aug-2011 01:02	1512.0 FT	-16.0 FT
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_025PUP	FN:36	PRODUCER	31-Aug-2011 04:05	1512.0 FT	-15.0 FT
RTB	AIT_TLD_MCFL_CNL_025PUP	FN:37	PRODUCER	31-Aug-2011 04:05	1512.0 FT	-15.0 FT

OP System Version: 19C0-187

HAIT-H	SRPC-5047-H1-2011-OP19_b	HILTB-FTB	SRPC-5047-H1-2011-OP19_b
EDTC-B	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

GR > 400
From LHT1 to ECGR 2

GR > 200
From LHT1 to ECGR 1

Tension (TENS)
(LBF) 10000 0

AIT-H 90 Inch Investigation (AHT90)
0.2 (OHMM) 2000

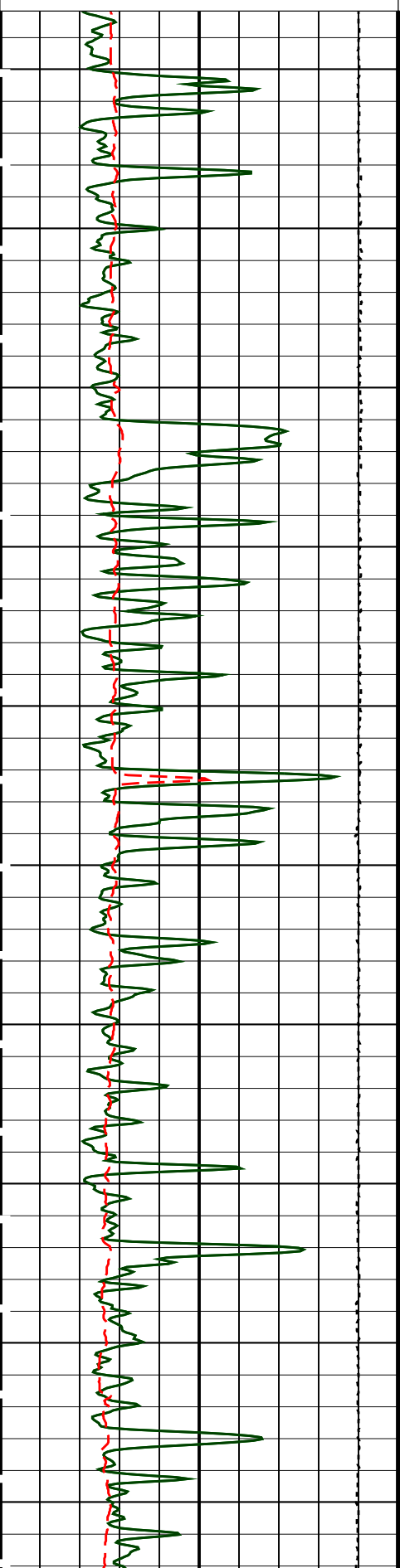
AIT-H 60 Inch Investigation (AHT60)
0.2 (OHMM) 2000

Caliper (HCAL)
(IN) 10 20

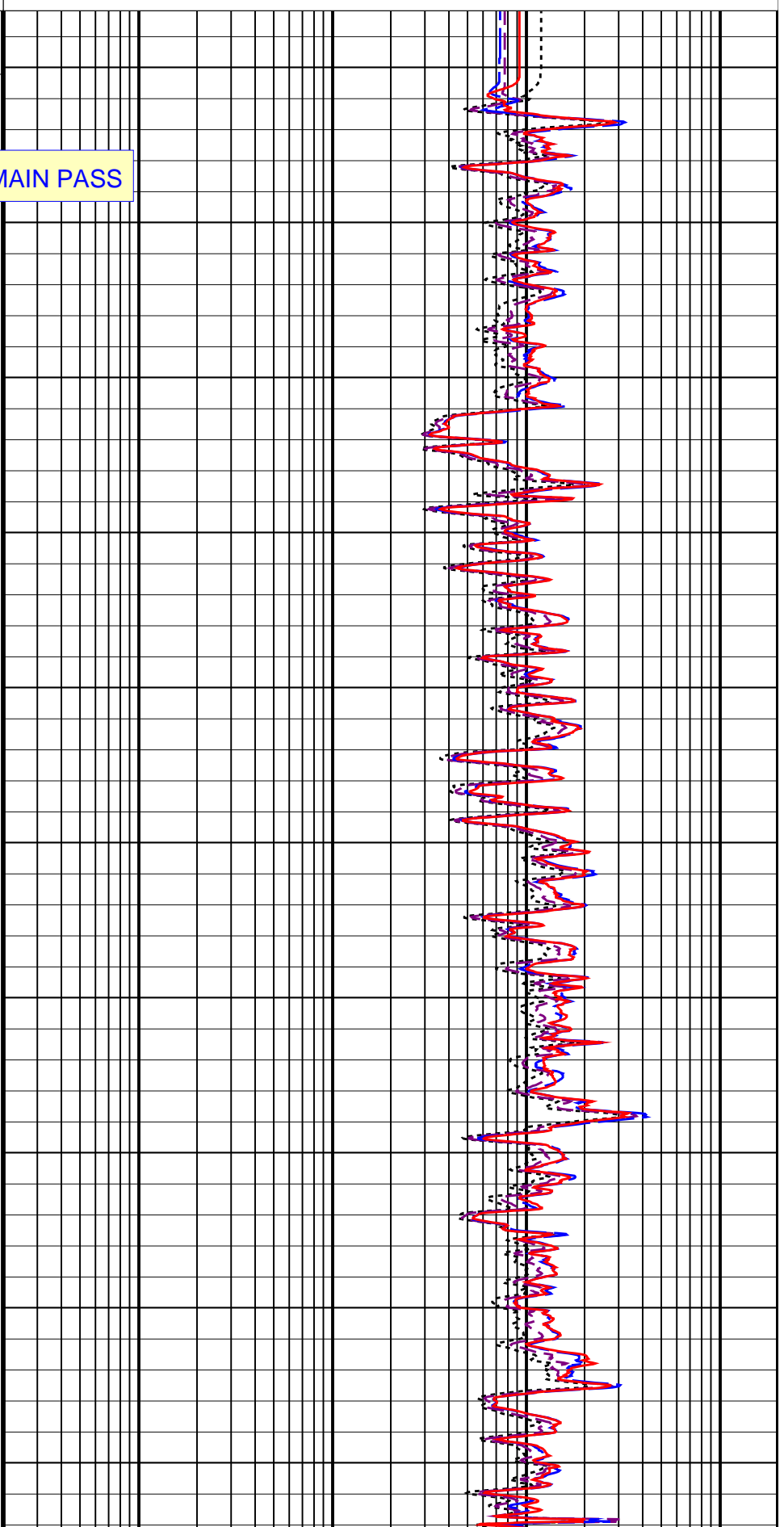
AIT-H 30 Inch Investigation (AHT30)
(OHMM) 0.2 2000

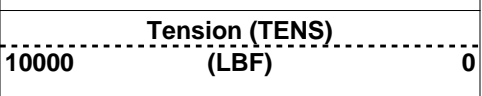
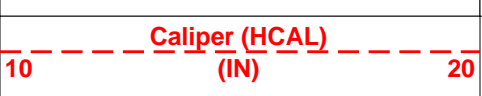
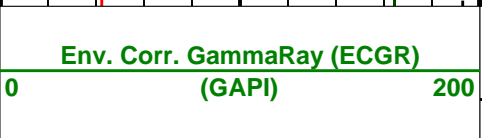
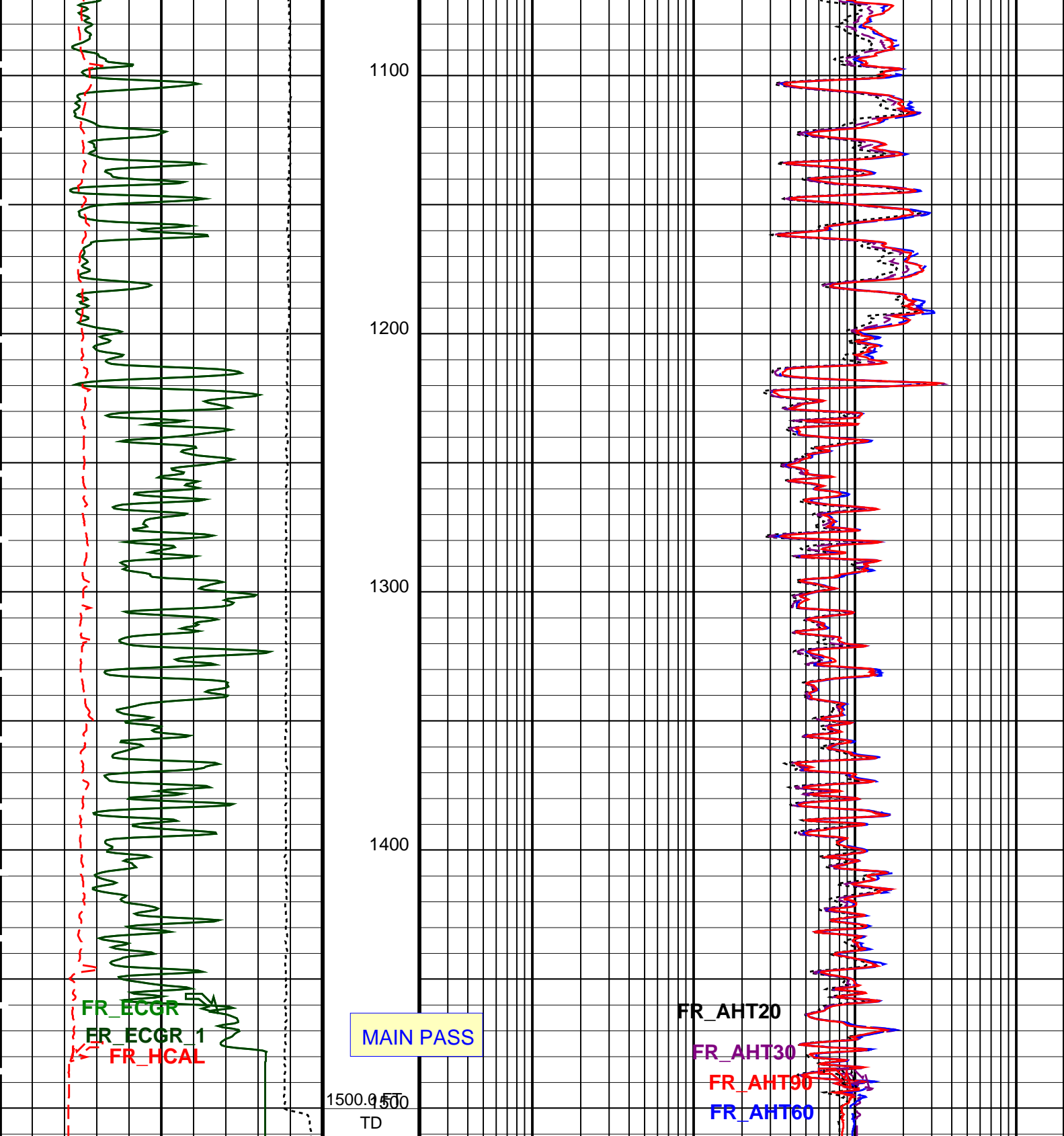
Env. Corr. GammaRay (ECGR)
(GAPI) 0 200

Stuck Stretch (STIT) 0 (F) 50
AIT-H 20 Inch Investigation (AHT20)
(OHMM) 0.2 2000

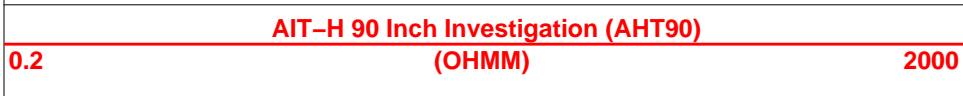
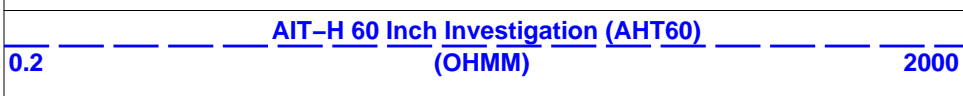
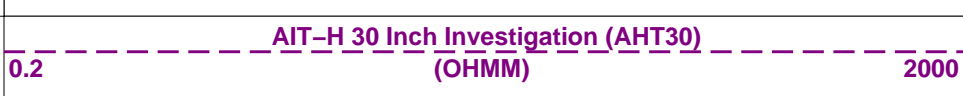
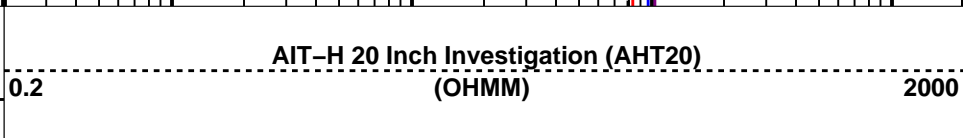
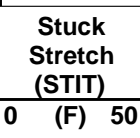


602.0 F
CD
700
800
900
1000





GR > 200
From LHT1 to ECGR 1



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HAIT-H: Array Induction Tool - H			
AHBHM	Array Induction Borehole Correction Mode	0_ComputeMudResistivity	
AHBHV	Array Induction Borehole Correction Code Version Number	900	
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
AHBLV	Array Induction Basic Logs Code Version Number	223	
AHCDE	Array Induction Casing Detection Enable	Yes	
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
AHFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AHMRF	Array Induction Mud Resistivity Factor	1	
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
AHRFV	Array Induction Radial Profiling Code Version Number	701	
AHRPV	Array Induction Radial Parametrization Code Version Number	232	
AHSTA	Array Induction Tool Standoff	1.5	IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
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	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	65	DEGF
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
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	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
NMT	HILT Nuclear Mud Type	NOBARITE	
SHT	Surface Hole Temperature	65	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
EDTC-B: Enhanced DTS Cartridge			
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	65	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	65	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	1528.00	FT
TDL	Total Depth - Logger	1500.00	FT
System and Miscellaneous			
BS	Bit Size	12.250	IN
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	76.60	DEGF
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	1500	FT

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_014LUP FN:18 PRODUCER 31-Aug-2011 01:02 1512.0 FT -16.0 FT

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_025PUP FN:36 PRODUCER 31-Aug-2011 04:05
RTB AIT_TLD_MCFL_CNL_025PUP FN:37 PRODUCER 31-Aug-2011 04:05



MAIN 5"

MAXIS Field Log

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_014LUP FN:18 PRODUCER 31-Aug-2011 01:02 1512.0 FT -16.0 FT

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_025PUP FN:36 PRODUCER 31-Aug-2011 04:05 1512.0 FT -15.0 FT
RTB AIT_TLD_MCFL_CNL_025PUP FN:37 PRODUCER 31-Aug-2011 04:05 1512.0 FT -15.0 FT

OP System Version: 19C0-187

PIP SUMMARY

Time Mark Every 60 S

GR > 400
From LHT1 to ECGR 2

GR > 200
From LHT1 to ECGR 1

Tension (TENS)
(LBF) 0

Caliper (HCAL)
(IN) 10 20

Env. Corr. GammaRay (ECGR)
(GAPI) 0 200

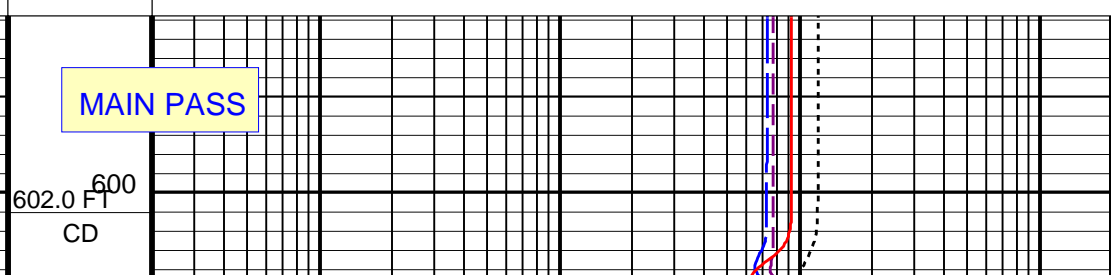
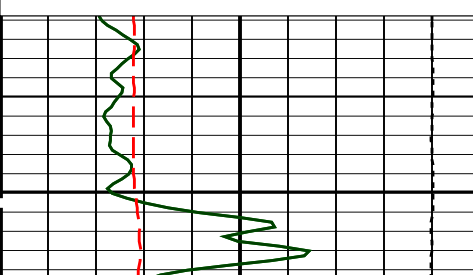
Stuck
Stretch
(STIT)
(F) 50

AIT-H 90 Inch Investigation (AHT90)
0.2 (OHMM) 2000

AIT-H 60 Inch Investigation (AHT60)
0.2 (OHMM) 2000

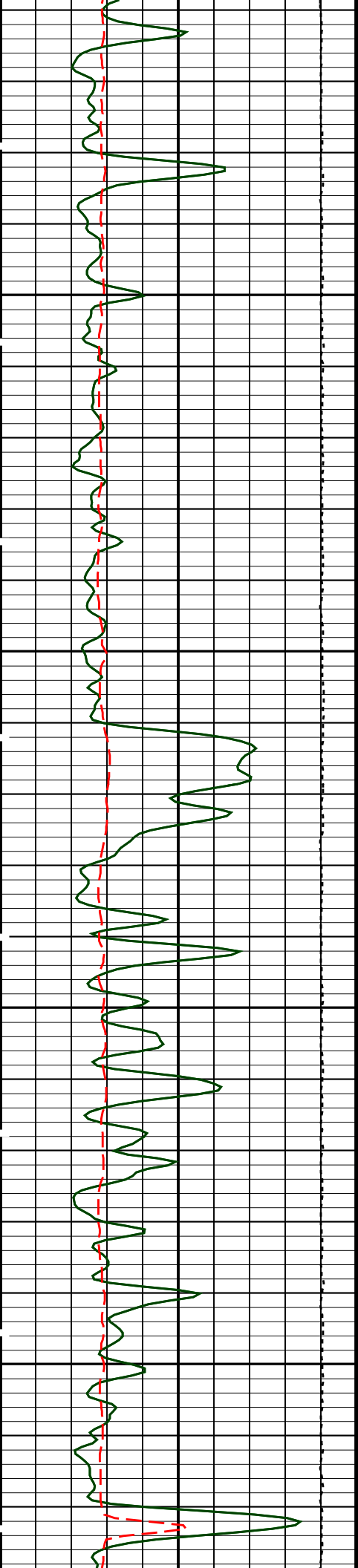
AIT-H 30 Inch Investigation (AHT30)
0.2 (OHMM) 2000

AIT-H 20 Inch Investigation (AHT20)
0.2 (OHMM) 2000



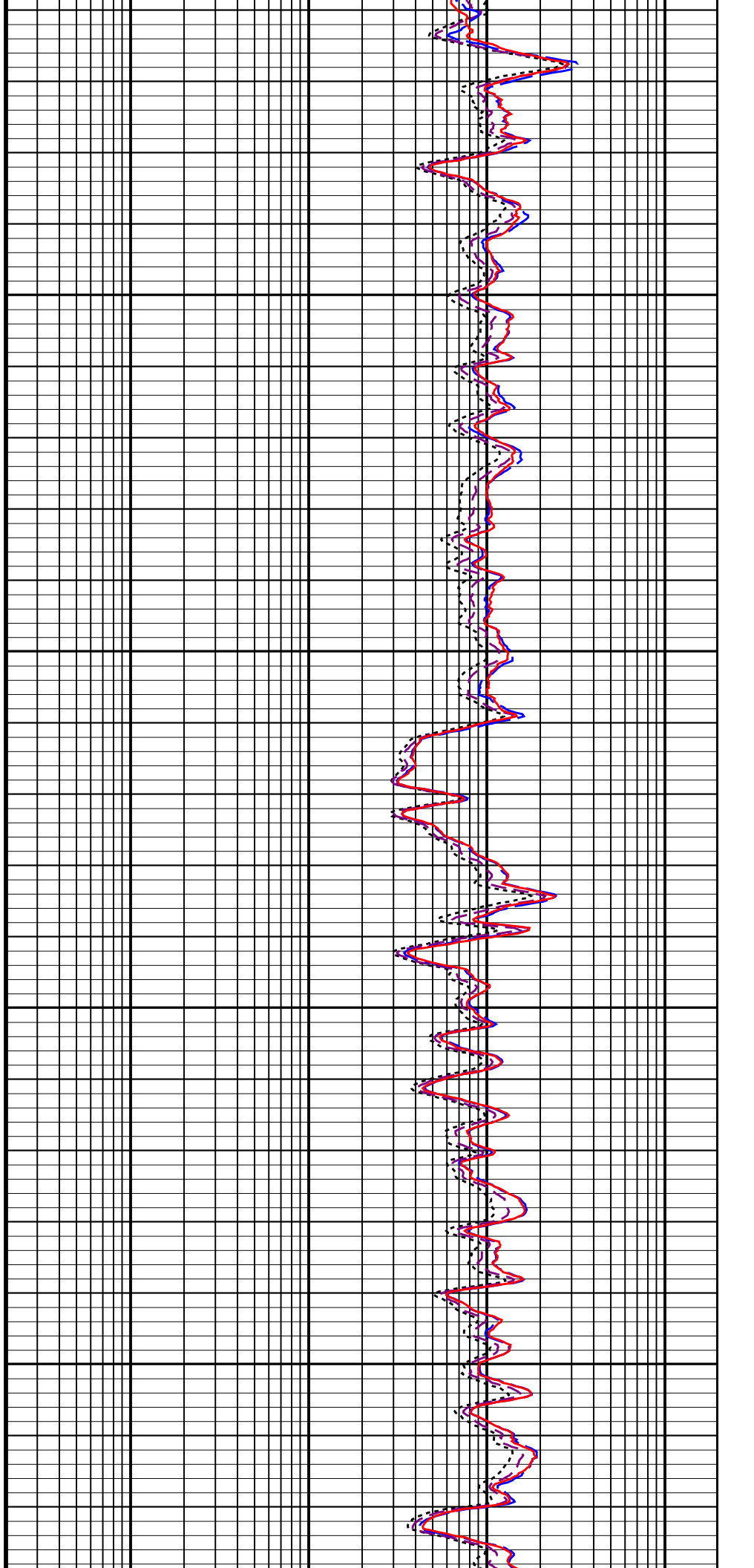
MAIN PASS

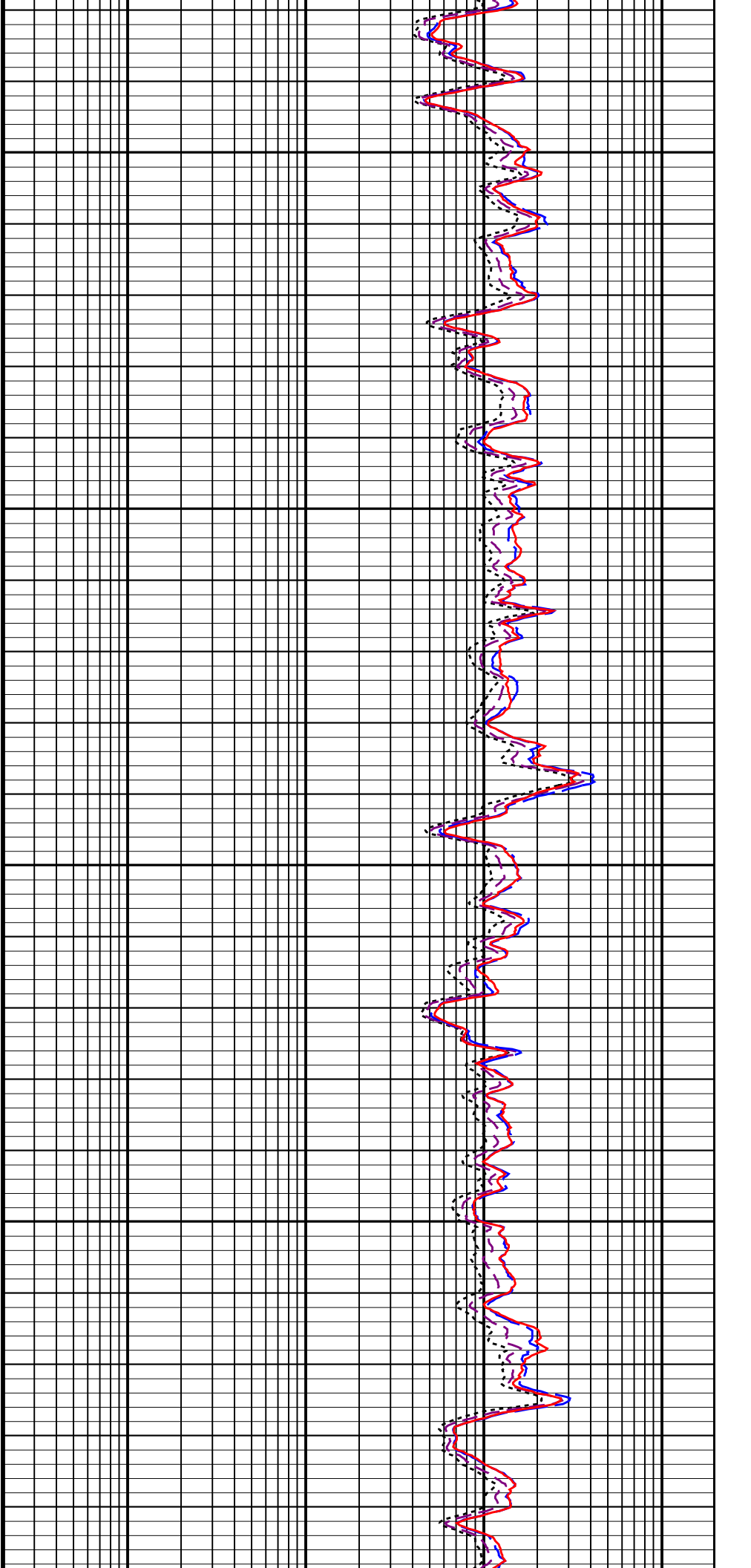
602.0 FT
CD

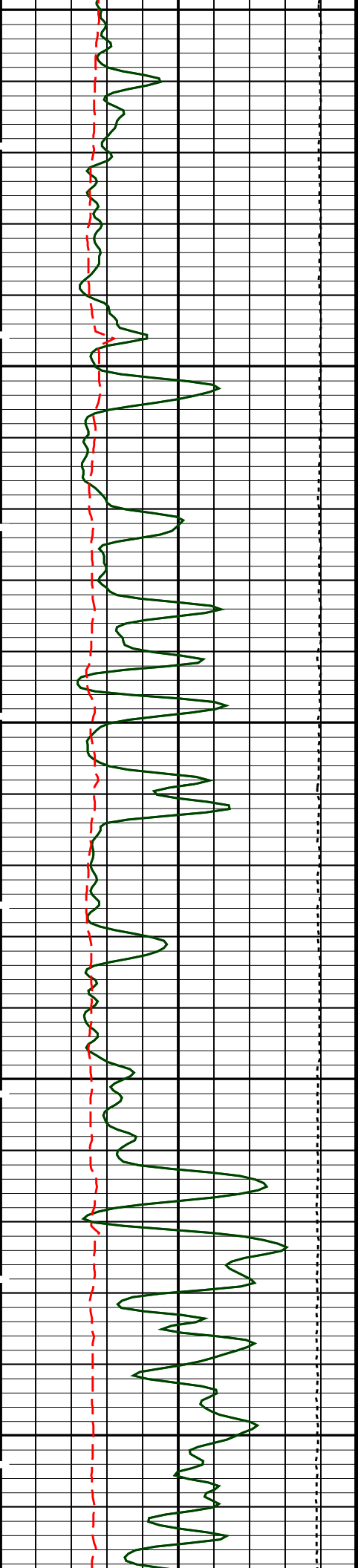


700

800

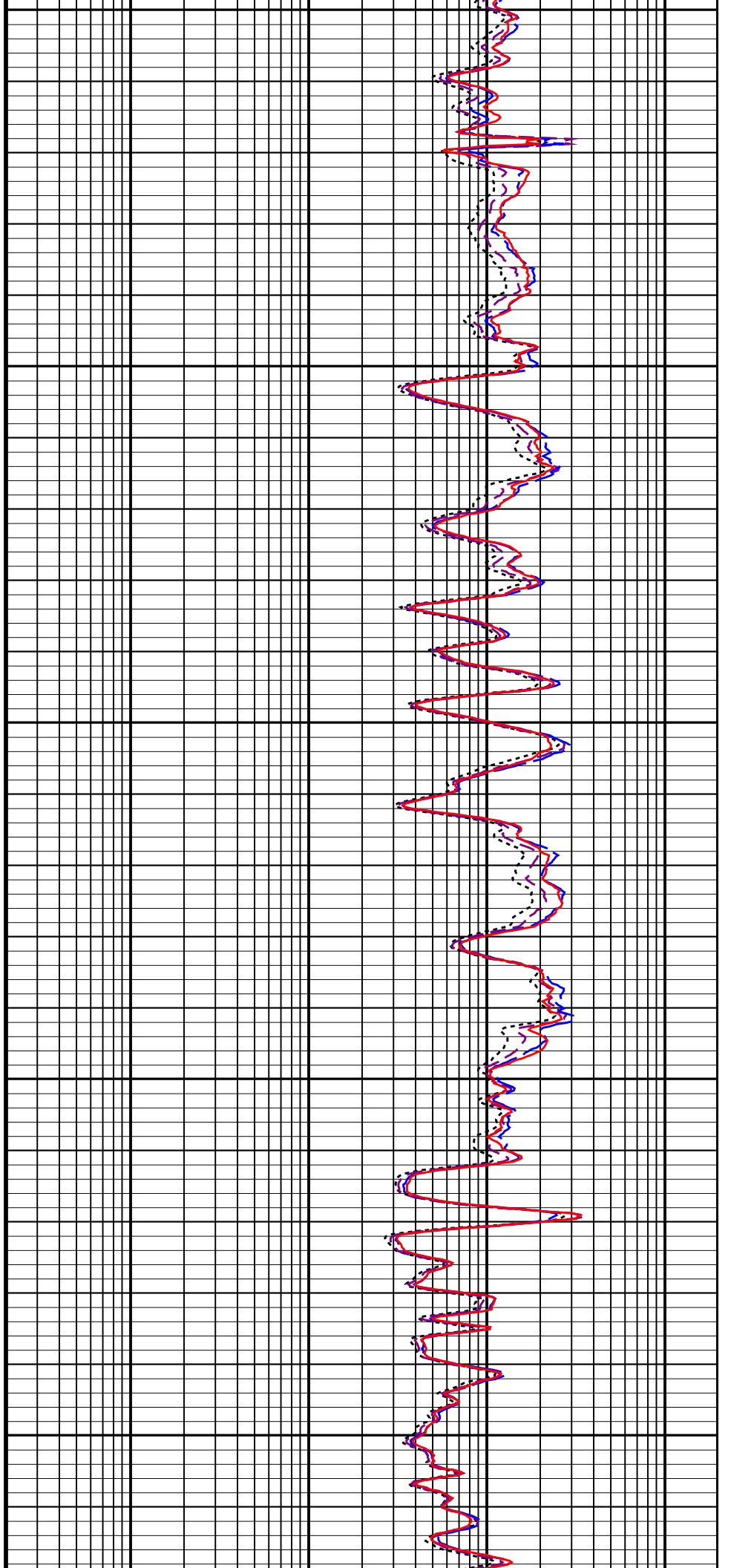


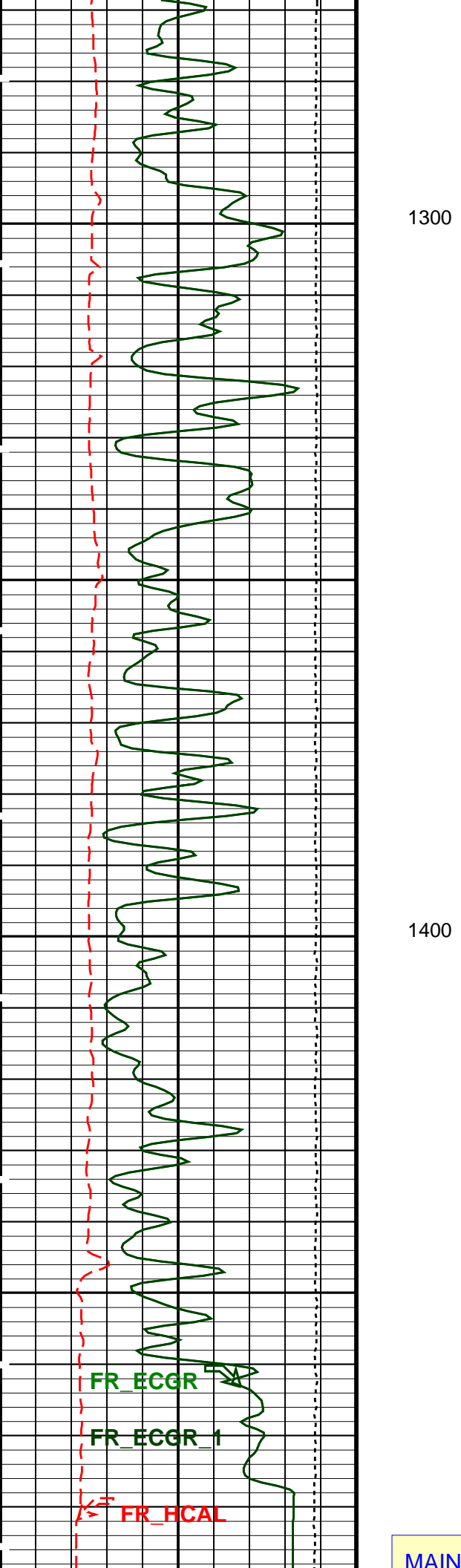




1100

1200

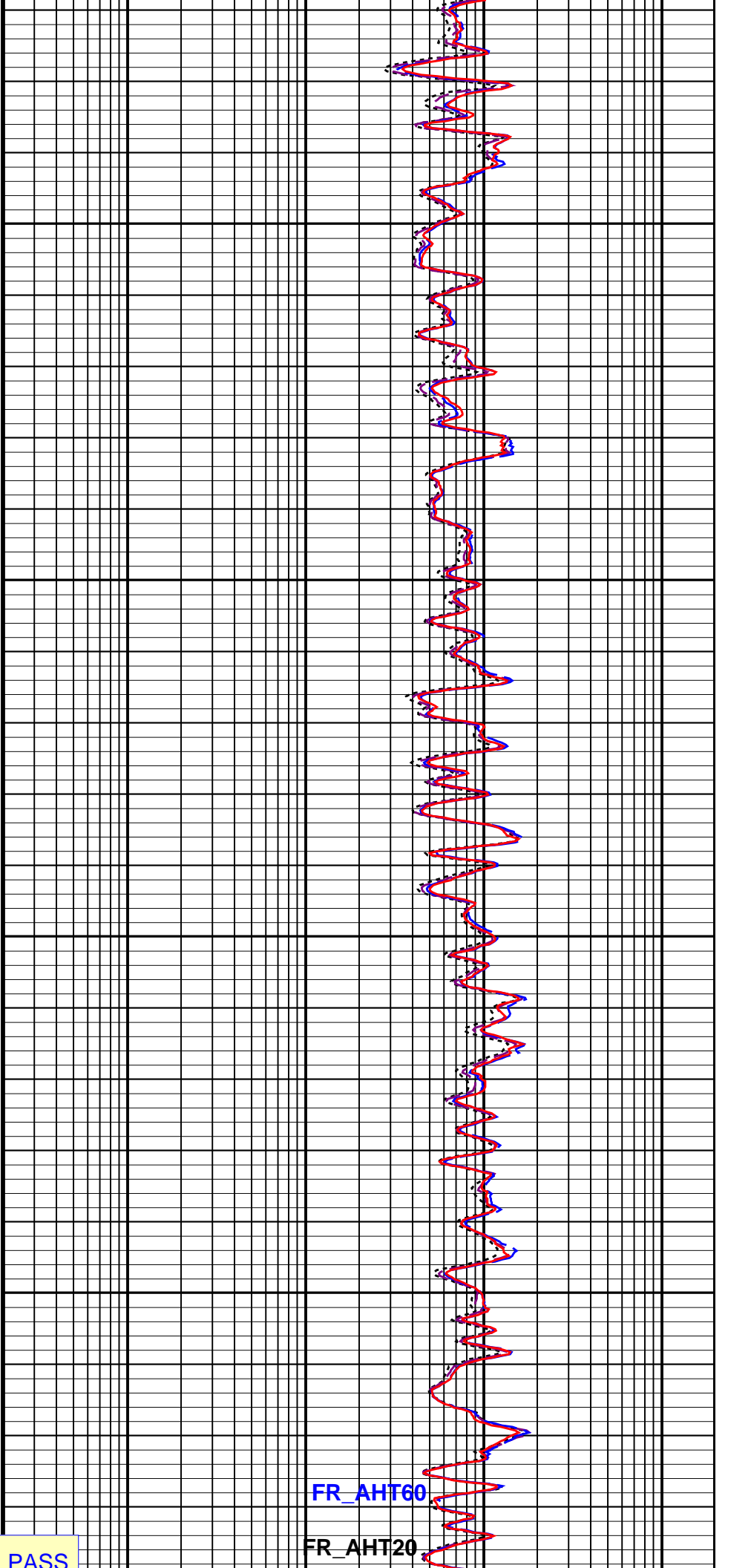




1300

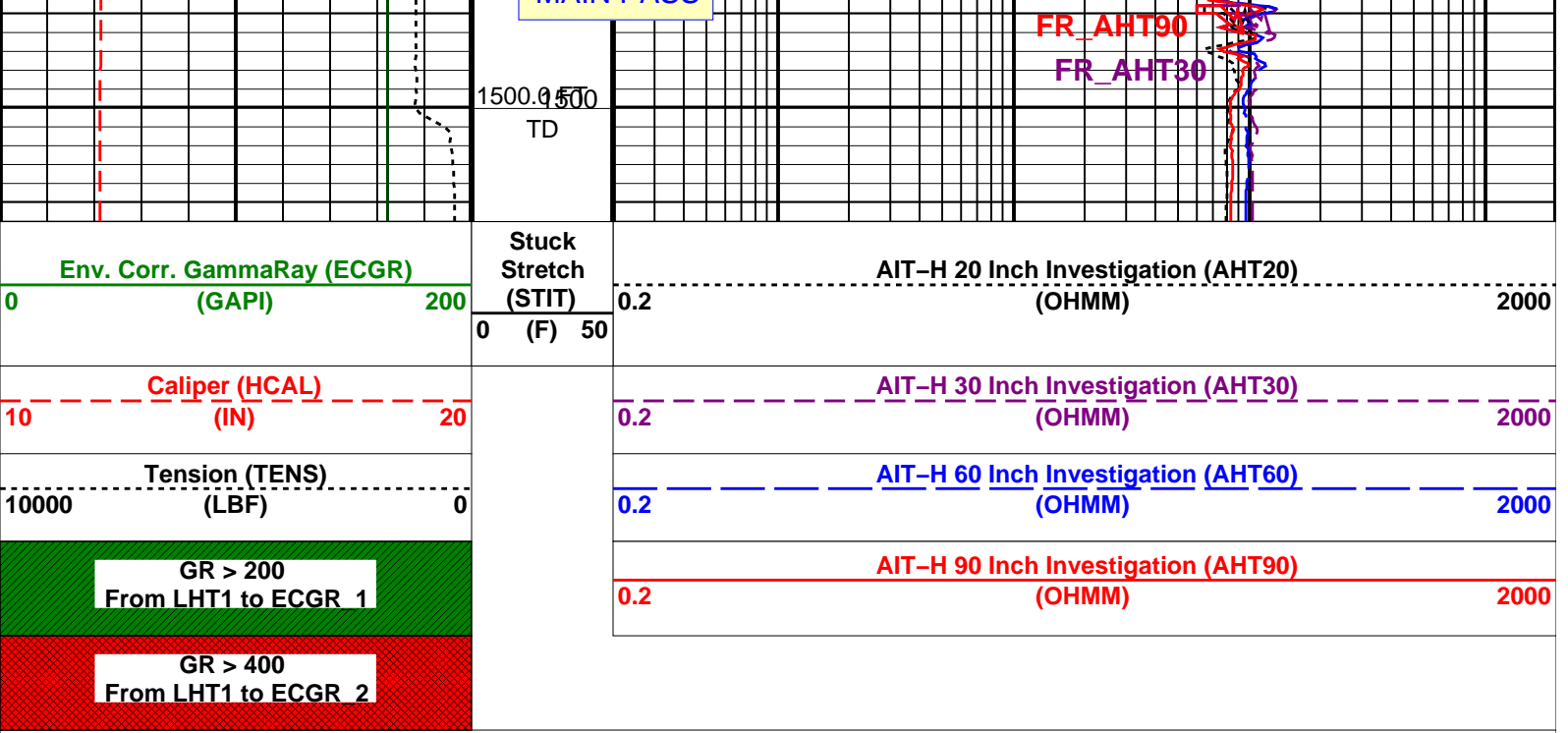
1400

MAIN PASS



FR_AHT60

FR_AHT20



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HAIT-H: Array Induction Tool - H			
AHAPL	Array Induction Answer Product Level(Depth Log/View only)	3_BholeCorr_BasicLogs_Radial_Processing	
AHBHM	Array Induction Borehole Correction Mode	0_ComputeMudResistivity	
AHBHV	Array Induction Borehole Correction Code Version Number	900	
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
AHBLV	Array Induction Basic Logs Code Version Number	223	
AHCDE	Array Induction Casing Detection Enable	Yes	
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
AHDITM	Array Induction Desired Tool Mode	0x00_Log_000	
AHEBC	Array Induction Enable Borehole Correction	Yes	
AHEBL	Array Induction Enable Basic Logs	Yes	
AHERP	Array Induction Enable Radial Processing	Yes	
AHETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AHFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AHIGS	Array Induction Select Akima Interpolation Gating	On	
AHLNV	Array Induction Log Not Valid Flag	Log_Valid-No_Default_Parameters	
AHMRD	Array Induction Mud Resistivity Calibration Depth	0	FT
AHMRF	Array Induction Mud Resistivity Factor	1	
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
AHRFV	Array Induction Radial Profiling Code Version Number	701	
AHRPM	Array Induction Radial Processing Mode	1_Two	
AHRPV	Array Induction Radial Parametrization Code Version Number	232	
AHSTA	Array Induction Tool Standoff	1.5	IN
AHTNO	Array Induction Tool Serial Number	266	
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
AHTSE	Array Induction Temperature Selection (Sonde Error Correction)	Internal	
AHTTY	Array Induction Tool Type (of acquired data)	HAIT	
AHULV	Array Induction User Level Control	Normal	
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
FEXP	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	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RTCO	RTCO - Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	65	DEGF
SPNV	SP Next Value	0	MV

HILTB-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)	67.7	DEGF
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	1.1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
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	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HACPP	Accelerometer PROM Presence	PRESENT_FILE	
HART	Accelerometer Reference Temperature	68	DEGF
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
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	2.65	G/C3
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	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	65	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	

EDTC-B: Enhanced DTS Cartridge

BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	65	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETEIM_EDTS	Telemetry Mode for eWAFF	Standard_EDTS	

Parameter	Description	Value	Unit
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
ALLRES:	Basic Resistivity Transforms		
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
HOLEV:	Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	65	DEGF
STI:	Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	1528.00	FT
TDL	Total Depth - Logger	1500.00	FT
	System and Miscellaneous		
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	120.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	48.00	LB/F
DFD	Drilling Fluid Density	9.30	LB/G
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	76.60	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	5.0175	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1500	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: AIT5 Vertical Scale: 5" per 100' Graphics File Created: 31-Aug-2011 04:05

OP System Version: 19C0-187

HAIT-H SRPC-5047-H1-2011-OP19_b HILTB-FTB SRPC-5047-H1-2011-OP19_b
 EDTC-B 19C0-187

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_014LUP FN:18 PRODUCER 31-Aug-2011 01:02 1512.0 FT -16.0 FT

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_025PUP FN:36 PRODUCER 31-Aug-2011 04:05
 RTB AIT_TLD_MCFL_CNL_025PUP FN:37 PRODUCER 31-Aug-2011 04:05



REPEAT SECTION

MAXIS Field Log

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_012LUP FN:14 PRODUCER 31-Aug-2011 00:37 1506.0 FT 1112.0 FT

Output DLIS Files

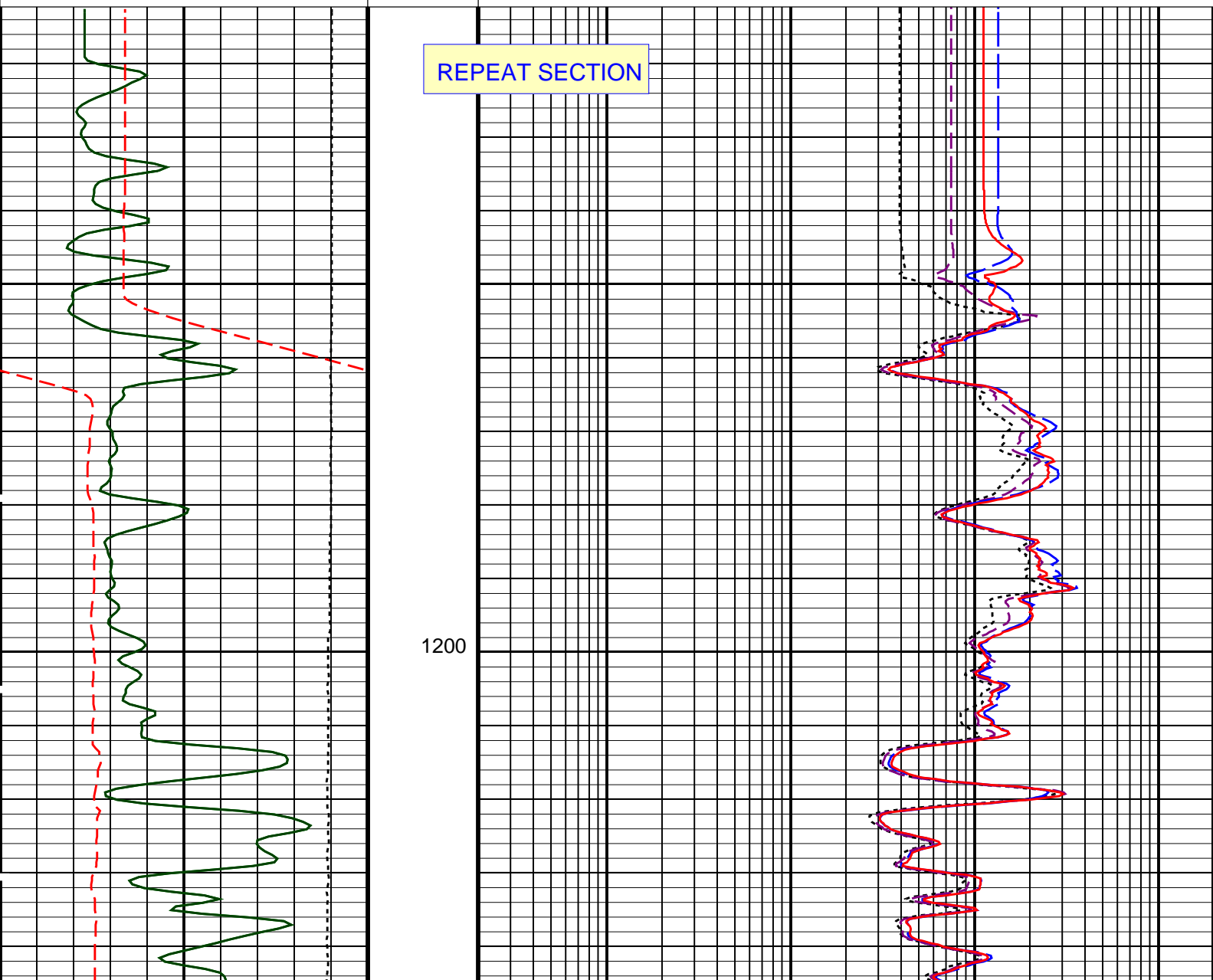
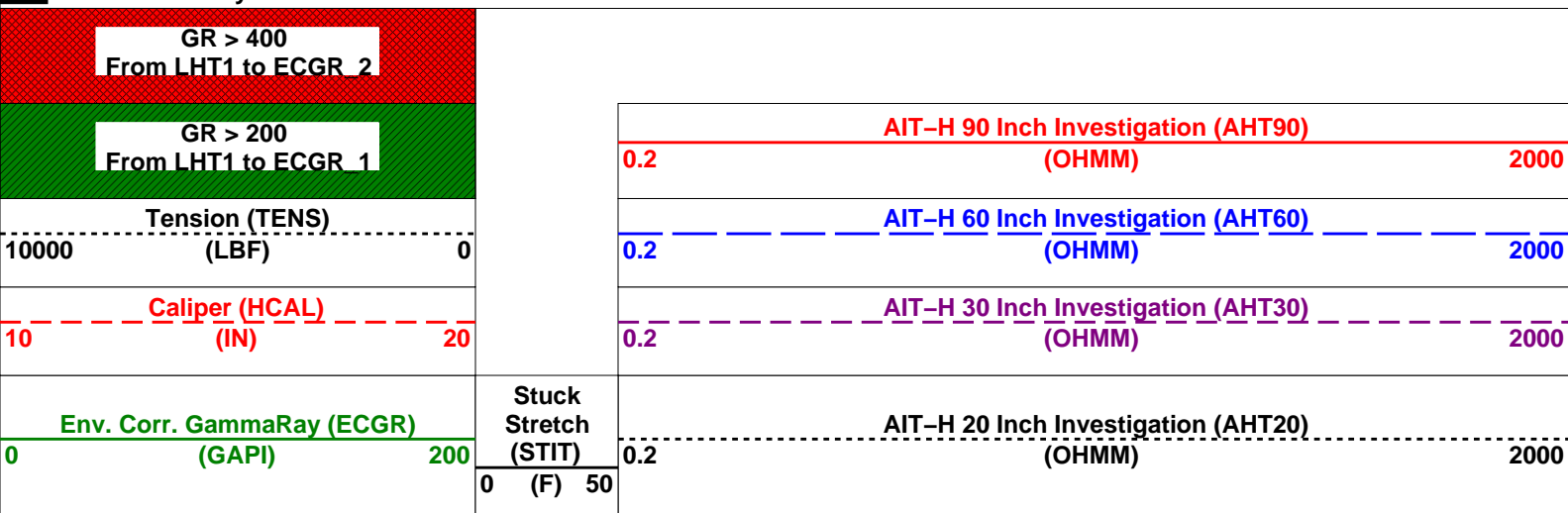
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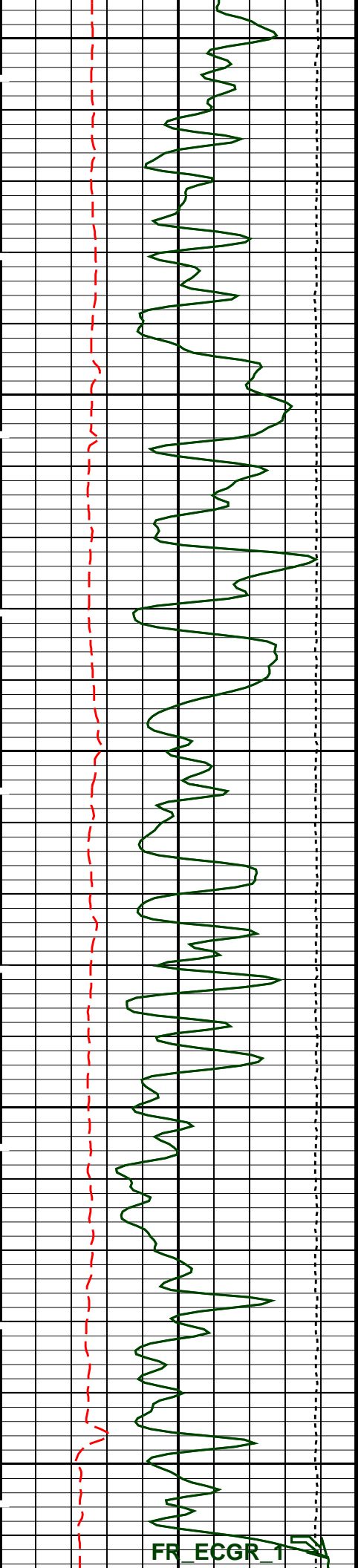
OP System Version: 19C0-187

HAIT-H SRPC-5047-H1-2011-OP19_b HILTB-FTB SRPC-5047-H1-2011-OP19_b
 EDTC-B 19C0-187

PIP SUMMARY

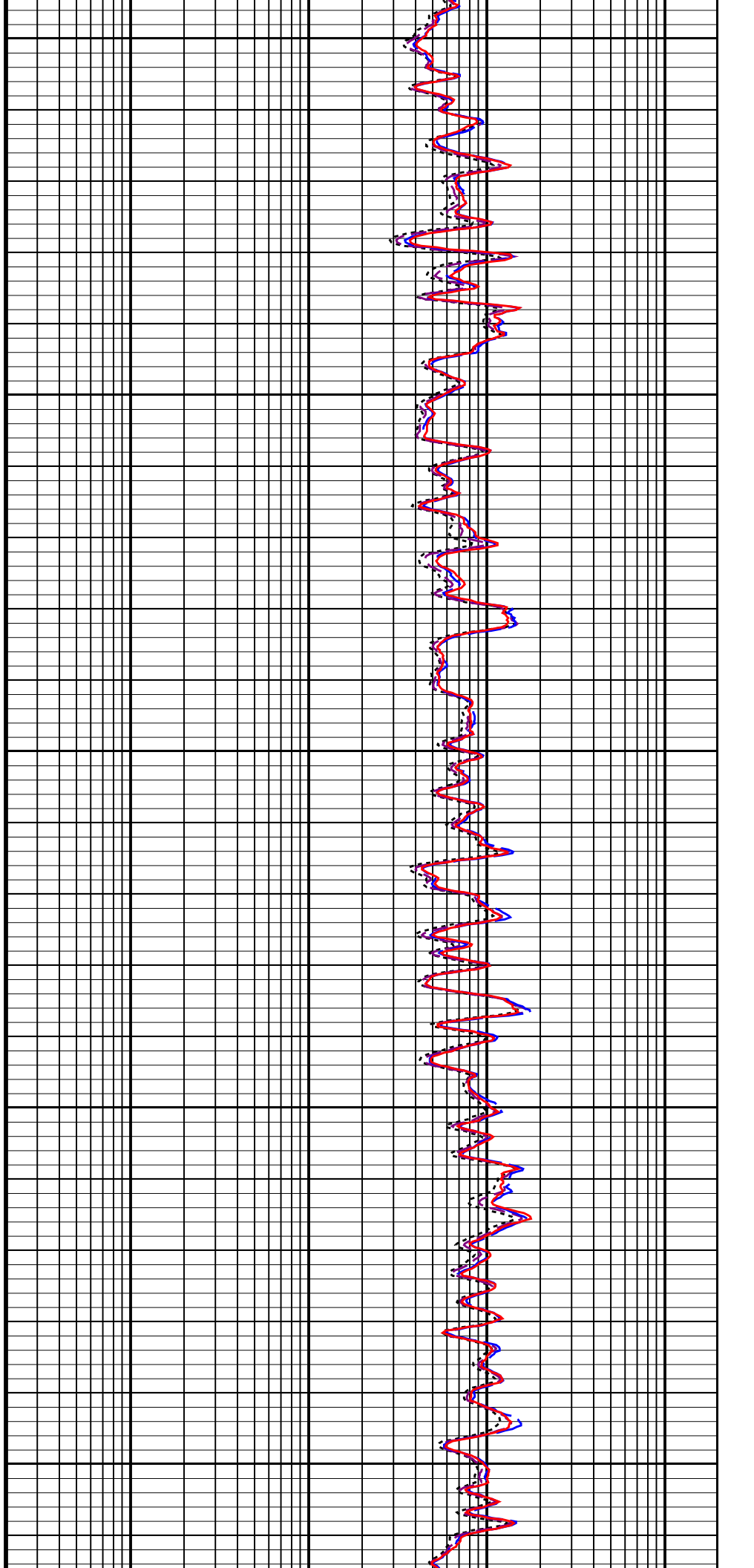
Time Mark Every 60 S

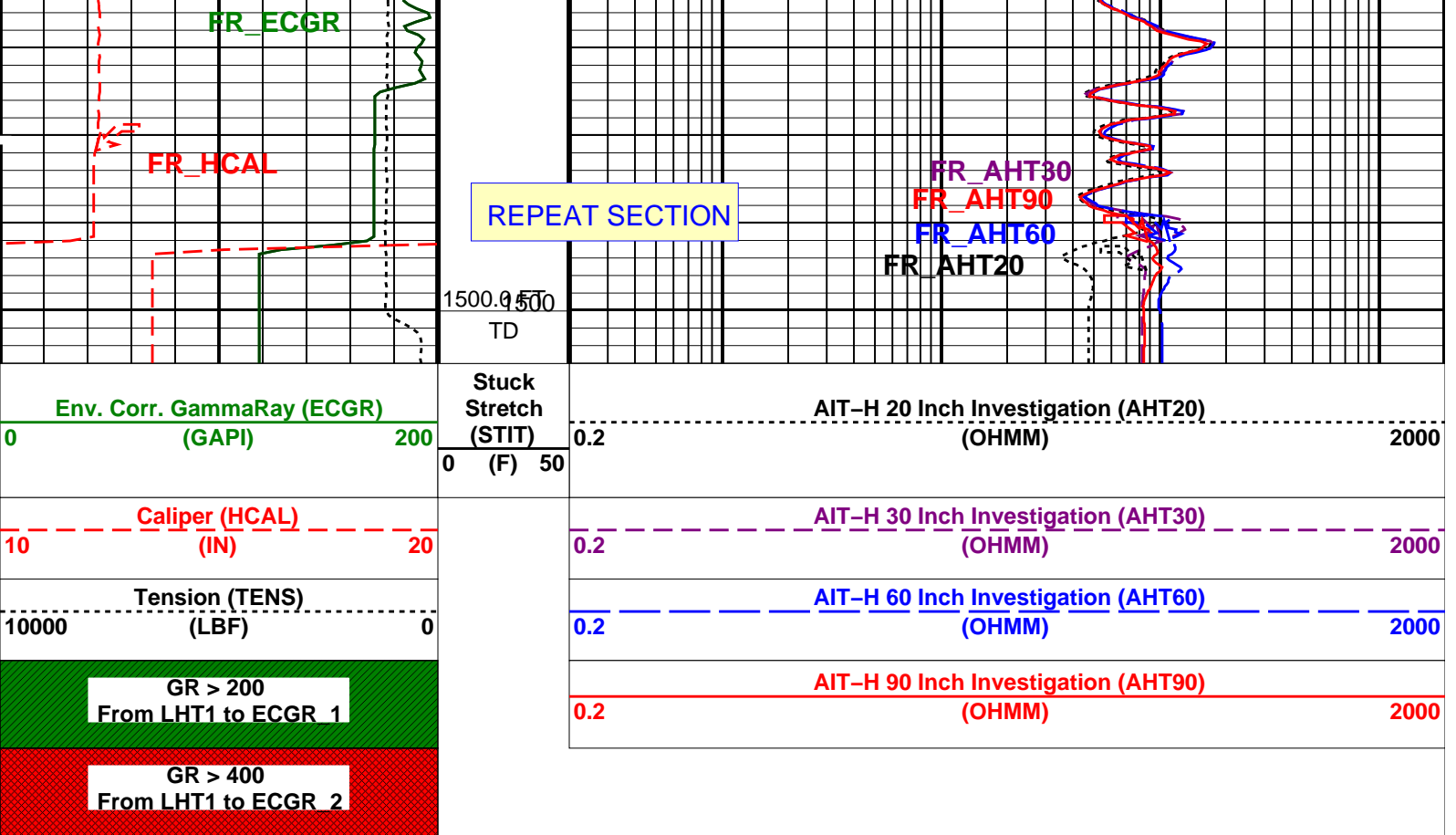




1300

1400





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HAIT-H: Array Induction Tool - H		
AHAPL	Array Induction Answer Product Level(Depth Log/View only)	
	3_BholeCorr_BasicLogs_Radial_Processing	
AHBHM	Array Induction Borehole Correction Mode	0_ComputeMudResistivity
AHBHV	Array Induction Borehole Correction Code Version Number	900
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	223
AHCDE	Array Induction Casing Detection Enable	Yes
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
AHDITM	Array Induction Desired Tool Mode	0x00_Log_000
AHEBC	Array Induction Enable Borehole Correction	Yes
AHEBL	Array Induction Enable Basic Logs	Yes
AHERP	Array Induction Enable Radial Processing	Yes
AHETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes
AHFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20
AHIGS	Array Induction Select Akima Interpolation Gating	On
AHLNV	Array Induction Log Not Valid Flag	Log_Valid-No_Default_Parameters
AHMRD	Array Induction Mud Resistivity Calibration Depth	0
AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20
AHRFV	Array Induction Radial Profiling Code Version Number	701
AHRPM	Array Induction Radial Processing Mode	1_Two
AHRPV	Array Induction Radial Parametrization Code Version Number	232
AHSTA	Array Induction Tool Standoff	1.5
AHTNO	Array Induction Tool Serial Number	266
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20
AHTSE	Array Induction Temperature Selection (Sonde Error Correction)	Internal
AHTTY	Array Induction Tool Type (of acquired data)	HAIT
AHULV	Array Induction User Level Control	Normal
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	67.7
FEXP	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	0.01
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST

GTSE	Generalized Temperature Selection	HSTS_HTEM	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RTCO	RTCO – Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	65	DEGF
SPNV	SP Next Value	0	MV
HILTB–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)	67.7	DEGF
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	1.1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
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	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HACPP	Accelerometer PROM Presence	PRESENT_FILE	
HART	Accelerometer Reference Temperature	68	DEGF
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
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	2.65	G/C3
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	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	65	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
EDTC–B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	

PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	65	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
ALLRES: Basic Resistivity Transforms			
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	65	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	1528.00	FT
TDL	Total Depth - Logger	1500.00	FT
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	120.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	48.00	LB/F
DFD	Drilling Fluid Density	9.30	LB/G
DO	Depth Offset for Playback	0.0	FT
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	76.60	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	5.0175	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1500	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: AIT5 Vertical Scale: 5" per 100' Graphics File Created: 31-Aug-2011 03:58

OP System Version: 19C0-187

HAIT-H EDTC-B	SRPC-5047-H1-2011-OP19_b 19C0-187	HILTB-FTB	SRPC-5047-H1-2011-OP19_b
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Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:14	PRODUCER	31-Aug-2011 00:37	1506.0 FT	1112.0 FT
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_022PUP	FN:30	PRODUCER	31-Aug-2011 03:58		
RTB	AIT_TLD_MCFL_CNL_022PUP	FN:31	PRODUCER	31-Aug-2011 03:58		



REPEAT ANALYSIS

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:14	PRODUCER	31-Aug-2011 00:37	1506.0 FT	1112.0 FT
DEFAULT	AIT_TLD_MCFL_CNL_014LUP	FN:18	PRODUCER	31-Aug-2011 01:02	1512.0 FT	-16.0 FT

Output DLIS Files

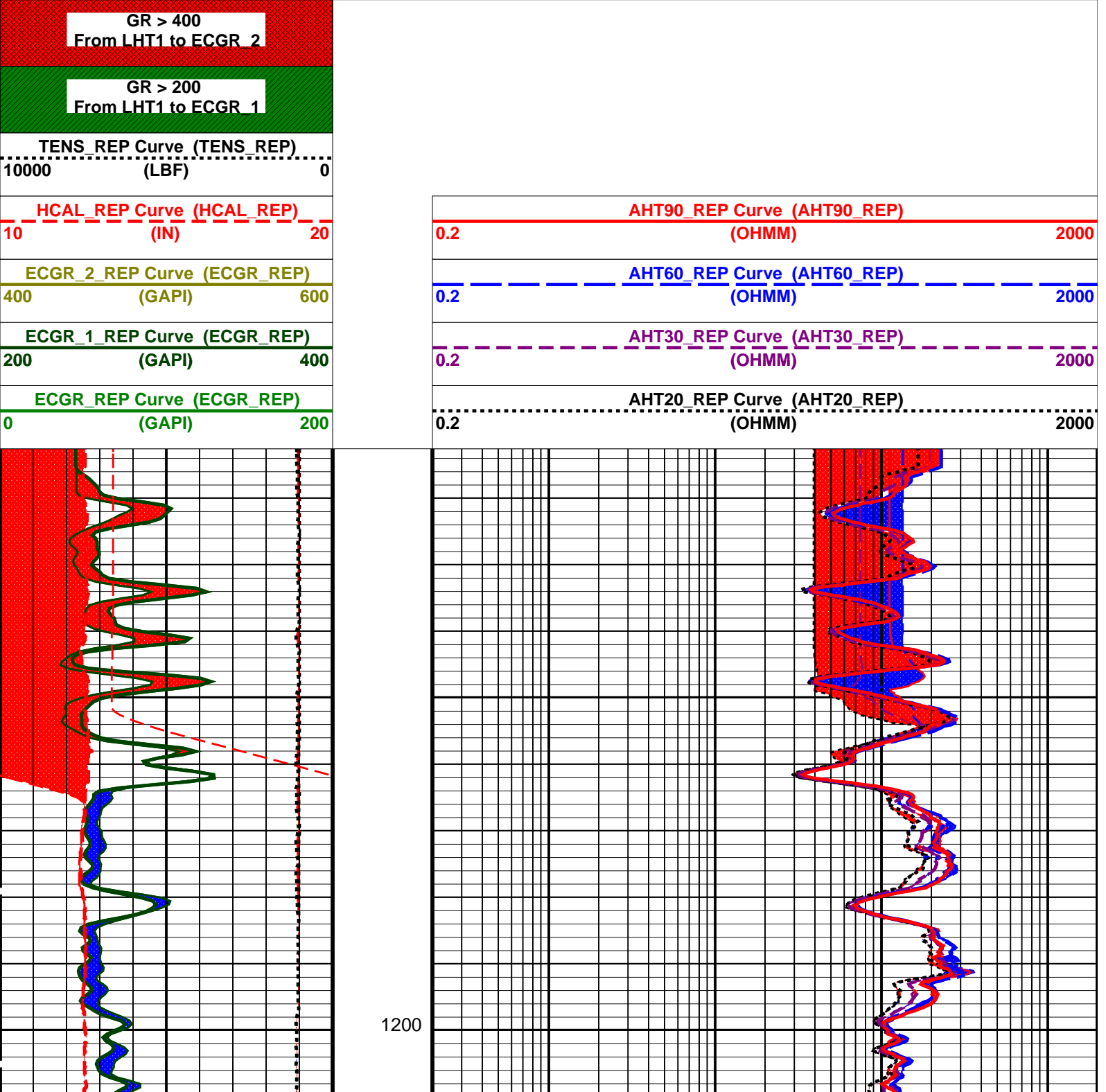
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RTB	AIT_TLD_MCFL_CNL_024PUP	FN:35	PRODUCER	31-Aug-2011 04:03	1506.0 FT	1112.0 FT

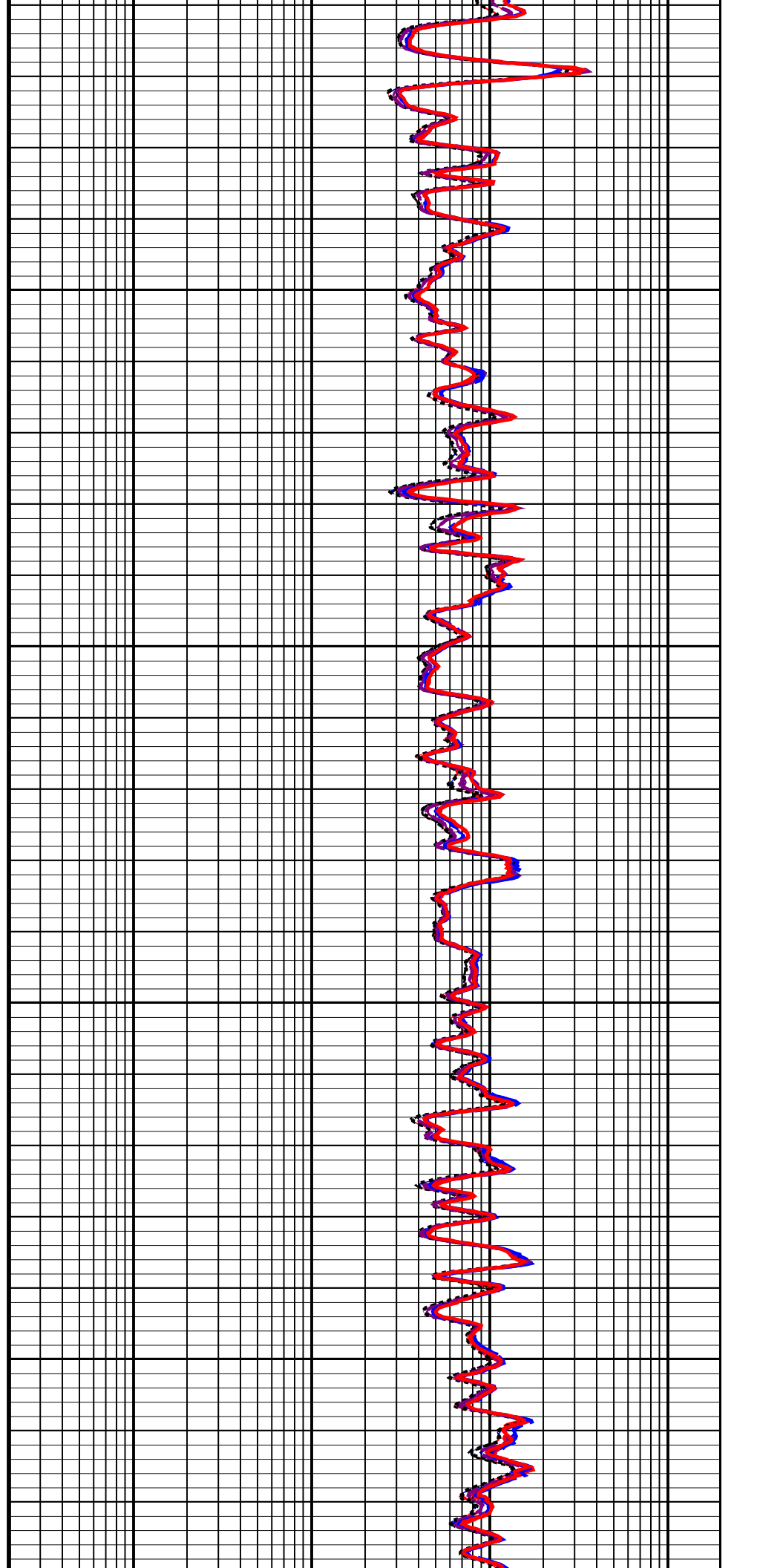
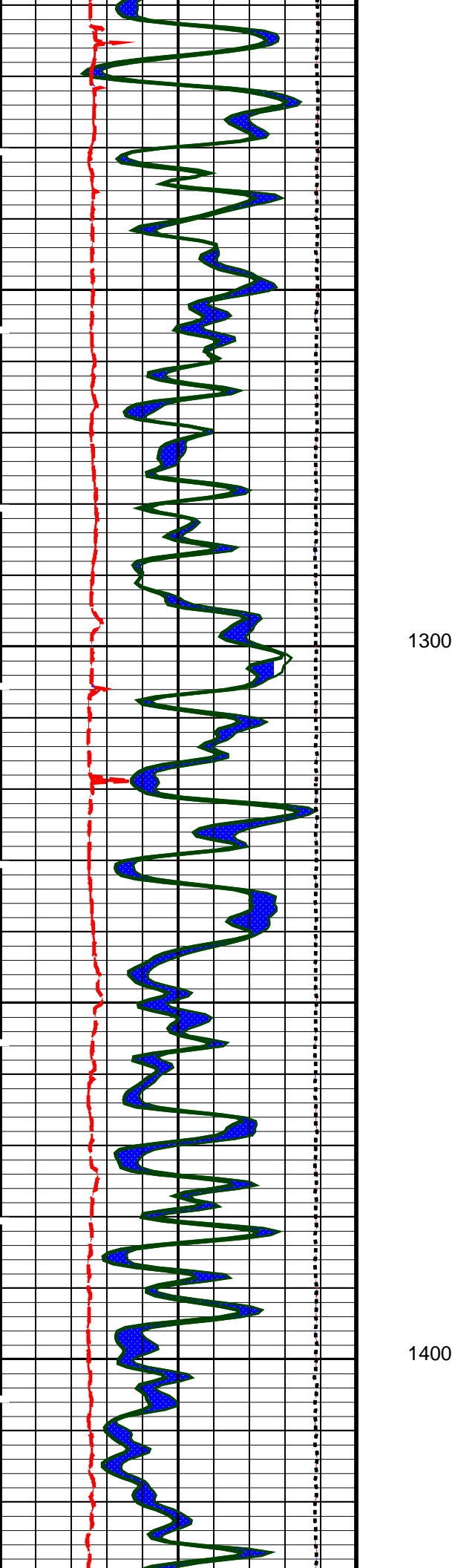
OP System Version: 19C0-187

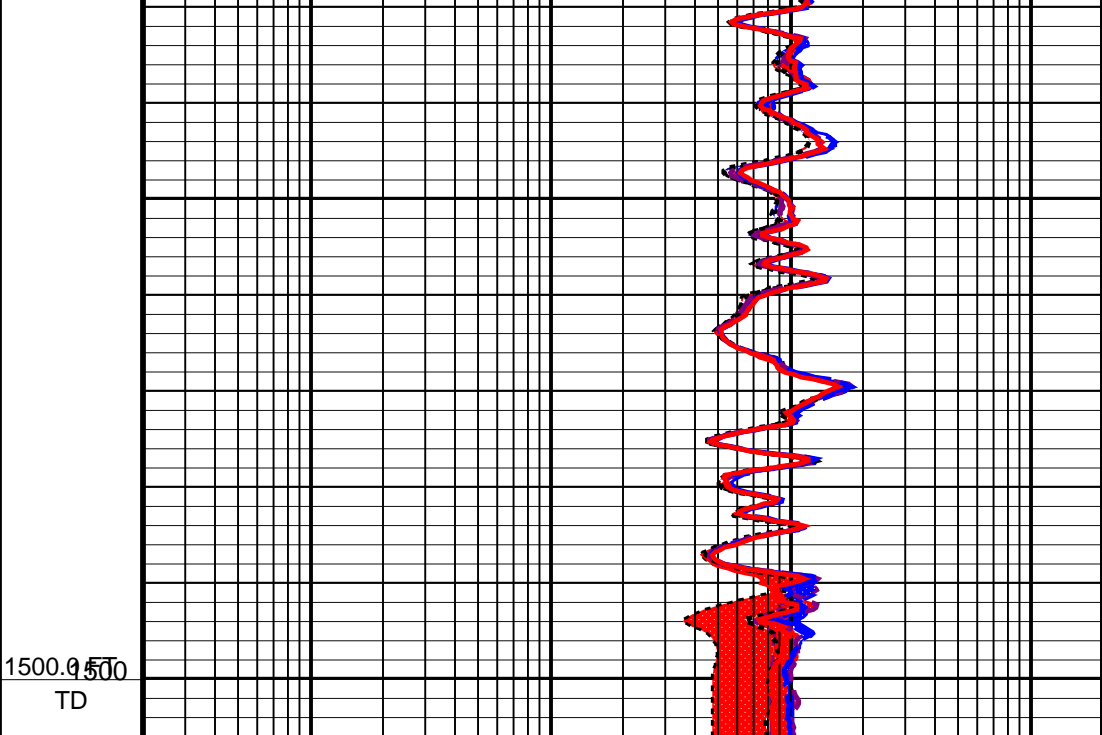
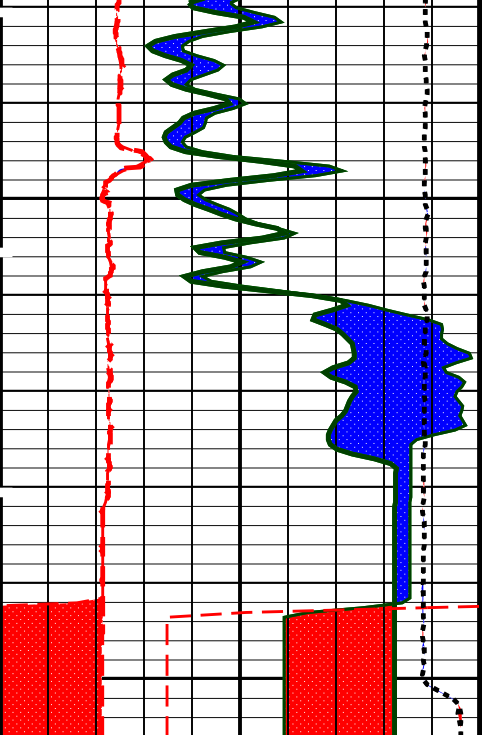
HAIT-H SRPC-5047-H1-2011-OP19_b HILTB-FTB SRPC-5047-H1-2011-OP19_b
 EDTC-B 19C0-187

PIP SUMMARY

Time Mark Every 60 S







ECGR_REP Curve (ECGR_REP)	(GAPI)	0	200
ECGR_1_REP Curve (ECGR_REP)	(GAPI)	200	400
ECGR_2_REP Curve (ECGR_REP)	(GAPI)	400	600
HCAL_REP Curve (HCAL_REP)	(IN)	10	20
TENS_REP Curve (TENS_REP)	(LBF)	10000	0
GR > 200 From LHT1 to ECGR 1			
GR > 400 From LHT1 to ECGR 2			

AHT20_REP Curve (AHT20_REP)	(OHMM)	0.2	2000
AHT30_REP Curve (AHT30_REP)	(OHMM)	0.2	2000
AHT60_REP Curve (AHT60_REP)	(OHMM)	0.2	2000
AHT90_REP Curve (AHT90_REP)	(OHMM)	0.2	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HAIT-H: Array Induction Tool - H		
AHAPL	Array Induction Answer Product Level(Depth Log/View only)	3_BholeCorr_BasicLogs_Radial_Processing
AHBHM	Array Induction Borehole Correction Mode	0_ComputeMudResistivity
AHBHV	Array Induction Borehole Correction Code Version Number	900
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	223
AHCDE	Array Induction Casing Detection Enable	Yes
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
AHDITM	Array Induction Desired Tool Mode	0x00_Log_000
AHEBC	Array Induction Enable Borehole Correction	Yes
AHEBL	Array Induction Enable Basic Logs	Yes
AHERP	Array Induction Enable Radial Processing	Yes
AHETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes
AHFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20
AHIGS	Array Induction Select Akima Interpolation Gating	On
AHLNV	Array Induction Log Not Valid Flag	Log_Valid-No_Default_Parameters
AHMRD	Array Induction Mud Resistivity Calibration Depth	0 FT
AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20
AHRSV	Array Induction Radial Processing Code Version Number	704

AHRFV	Array Induction Radial Profiling Code Version Number	1_Two	
AHRPM	Array Induction Radial Processing Mode	232	
AHRPV	Array Induction Radial Parametrization Code Version Number	1.5	IN
AHSTA	Array Induction Tool Standoff	266	
AHTNO	Array Induction Tool Serial Number	41.70.24.20	
AHTRSV	Array Induction Response Set Version for Two ft Resolution	Internal	
AHTSE	Array Induction Temperature Selection (Sonde Error Correction)	HAIT	
AHTTY	Array Induction Tool Type (of acquired data)	Normal	
AHULV	Array Induction User Level Control	AITH_TwoResA90	
ARTS	AIT Rt Selection (for ALLRES computation)	OPEN	
BHS	Borehole Status	67.7	DEGF
BHT	Bottom Hole Temperature (used in calculations)	2	
FEXP	Form Factor Exponent	1	
FNUM	Form Factor Numerator	DPHZ	
FPHI	Form Factor Porosity Source	HCAL	
GCSE	Generalized Caliper Selection	0	DEG
GDEV	Average Angular Deviation of Borehole from Normal	0.01	DF/F
GGRD	Geothermal Gradient	AITH_RESIST	
GRSE	Generalized Mud Resistivity Selection	HSTS_HTEM	
GTSE	Generalized Temperature Selection	NOBARITE	
ISSBAR	Barite Mud Switch	SANDSTONE	
MATR	Rock Matrix for Neutron Porosity Corrections	YES	
RTCO	RTCO - Rt Invasion Correction	65	DEGF
SHT	Surface Hole Temperature	0	MV
SPNV	SP Next Value		
HILTB-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)	67.7	DEGF
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	1.1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
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	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HACPP	Accelerometer PROM Presence	PRESENT_FILE	
HART	Accelerometer Reference Temperature	68	DEGF
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
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	2.65	G/C3
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	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	65	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	

EDTC-B: Enhanced DTS Cartridge

BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	65	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
ALLRES: Basic Resistivity Transforms			
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	67.7	DEGF
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	65	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	1528.00	FT
TDL	Total Depth - Logger	1500.00	FT
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	120.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	48.00	LB/F
DFD	Drilling Fluid Density	9.30	LB/G
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	76.60	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	5.0175	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1500	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: AIT5_REP

Vertical Scale: 5" per 100'

Graphics File Created: 31-Aug-2011 04:03

OP System Version: 19C0-187

HAIT-H	SRPC-5047-H1-2011-OP19_b	HILTB-FTB	SRPC-5047-H1-2011-OP19_b
EDTC-B	19C0-187		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:14	PRODUCER	31-Aug-2011 00:37	1506.0 FT	1112.0 FT
DEFAULT	AIT_TLD_MCFL_CNL_014LUP	FN:18	PRODUCER	31-Aug-2011 01:02	1512.0 FT	-16.0 FT

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_024PUP	FN:34	PRODUCER	31-Aug-2011 04:03		
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CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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Array Induction Tool – H Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase

Before: 31-Aug-2011 0:06

Thru Cal Magnitude – 0	0	N/A	0.6206	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	N/A	1.275	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	N/A	0.6336	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	N/A	0.7133	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	N/A	1.346	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	N/A	1.950	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	N/A	1.954	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	N/A	1.420	N/A	N/A	N/A	V
Phase – 0	0	N/A	57.26	N/A	N/A	N/A	DEG
Phase – 1	0	N/A	56.24	N/A	N/A	N/A	DEG
Phase – 2	0	N/A	52.55	N/A	N/A	N/A	DEG
Phase – 3	0	N/A	51.80	N/A	N/A	N/A	DEG
Phase – 4	0	N/A	45.52	N/A	N/A	N/A	DEG
Phase – 5	0	N/A	43.66	N/A	N/A	N/A	DEG
Phase – 6	0	N/A	43.63	N/A	N/A	N/A	DEG
Phase – 7	0	N/A	39.78	N/A	N/A	N/A	DEG

Array Induction Tool – H Wellsite Calibration – Electronics Calibration Check – Auxilliary

Before: 31-Aug-2011 0:06

Array Induction SPA Plus	990.5	N/A	992.3	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	N/A	0.1246	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9150	N/A	0.9199	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	N/A	0.0001156	N/A	N/A	N/A	V

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Stab Measurement Summary

Before: 29-Aug-2011 17:02

BS Window Ratio	0.7410	N/A	0.7410	N/A	N/A	N/A	
BS Window Sum	29350	N/A	29240	N/A	N/A	N/A	CPS
SS Window Ratio	0.4864	N/A	0.4858	N/A	N/A	N/A	
SS Window Sum	12980	N/A	12970	N/A	N/A	N/A	CPS
LS Window Ratio	0.2989	N/A	0.2965	N/A	N/A	N/A	
LS Window Sum	1337	N/A	1333	N/A	N/A	N/A	CPS

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

Before: 29-Aug-2011 17:02

BS PM High Voltage (Command)	1694	N/A	1697	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1854	N/A	1864	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1518	N/A	1526	N/A	N/A	N/A	V

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration

Before: 29-Aug-2011 17:02

BS Crystal Resolution	10.58	N/A	10.59	N/A	N/A	N/A	%
SS Crystal Resolution	10.51	N/A	10.70	N/A	N/A	N/A	%
LS Crystal Resolution	8.311	N/A	8.290	N/A	N/A	N/A	%

High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration

Before: 29-Aug-2011 17:03

Raw B0 Resistivity	3875	N/A	3889	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3823	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3832	N/A	N/A	N/A	OHMM

High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration

Before: 29-Aug-2011 17:05

HILT Caliper Zero Measurement	8.000	N/A	7.753	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.04	N/A	N/A	N/A	IN

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration

Before: 29–Aug–2011 17:00

Gamma Ray Background	30.00	N/A	34.87	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkgd)	165.0	N/A	159.5	N/A	N/A	15.00	GAPI

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement

Master: 15–Aug–2011 17:17 Before: 29–Aug–2011 17:02

CNTC Background	28.35	28.35	28.34	N/A	N/A	4.253	CPS
CFTC Background	28.21	28.21	29.07	N/A	N/A	4.232	CPS

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement

Master: 15–Aug–2011 17:17

Thermal Near Corr. (Tank)	5800	4709	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2062	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.284	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration

Before: 31–Aug–2011 0:05

Z–Axis Acceleration	32.19	N/A	32.16	N/A	N/A	N/A	F/S2
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High resolution Integrated Logging Tool–DTS Master Calibration – Inversion results

Master: 29–Aug–2011 15:18

Rho Aluminum	2.596	2.598	---	---	---	---	G/C3
Rho Magnesium	1.686	1.688	---	---	---	---	G/C3
Pe Aluminum	2.570	2.550	---	---	---	---	
Pe Magnesium	2.650	2.623	---	---	---	---	

High resolution Integrated Logging Tool–DTS Master Calibration – Deviation Summary

Master: 29–Aug–2011 15:18

BS Average Deviation	0	0.1847	---	---	---	---	%
BS Max Deviation	0	0.6784	---	---	---	---	%
SS Average Deviation	0	0.2826	---	---	---	---	%
SS Max Deviation	0	1.081	---	---	---	---	%
LS Average Deviation	0	0.4174	---	---	---	---	%
LS Max Deviation	0	1.083	---	---	---	---	%

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 31–Aug–2011 0:09

EDTC Z–Axis Acceleration	32.19	N/A	32.11	N/A	N/A	N/A	F/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 29–Aug–2011 17:01

Gamma Ray (Jig – Bkg)	147.5	N/A	147.5	N/A	N/A	13.41	GAPI
Gamma Ray (Calibrated)	160.0	N/A	160.0	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 70.0 DEGF.
 Thermal Housing Size 3.375 IN.
 NSR–F serial number 460

Array Induction Tool – H / Equipment Identification

Primary Equipment:
 Rm/SP Bottom Nose
 Array Induction Sonde

AHRM – A
 AHIS – BA 266

Auxiliary Equipment:

Array Induction Tool – H Wellsite Calibration

Electronics Calibration Check – Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Before	0.6206		0.6050	57.26		71.00
1	Before	1.275		1.270	56.24		70.00
2	Before	0.6226		0.6220	52.55		66.00

Before	0.6336		0.6230	32.33		66.00	
3	Before	0.7133		0.7040	51.80	65.00	
4	Before	1.346		1.337	45.52	59.00	
5	Before	1.950		1.955	43.66	57.00	
6	Before	1.954		1.955	43.63	57.00	
7	Before	1.420		1.415	39.78	53.00	
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)

Before: 31-Aug-2011 0:06

Array Induction Tool – H Wellsite Calibration						
Electronics Calibration Check – Auxilliary						
Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value	
Before		992.3	Before		0.1246	
	941.0 (Minimum)	990.5 (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	
Before		0.9199	Before		0.0001156	
	0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)	-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)

Before: 31-Aug-2011 0:06

High resolution Integrated Logging Tool–DTS / Equipment Identification			
Primary Equipment:			
HILT high-Resolution Mechanical Sonde	HRMS – B	4852	
HILT Rxo Gamma-ray Device	HRGD – B	4883	
HILT Micro Cylindrically Focused Log Dev	MCFL –		
GR Logging Source	GLS – VJ	5109	
HILT High Res. Control Cartridge	HRCC – B	4864	
HILT Gamma-Ray Neutron Sonde–DTS	HGNS – B		
HGNS Gamma-Ray Device	HGR –		
HGNS Neutron Detector with Alpha Source	HCNT –		
Auxiliary Equipment:			
Neutron Calibration Tank	NCT – B		
Gamma Source Radioactive	GSR – U/Y		
HGNS Housing	HGNH –		

High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Stab Measurement Summary									
Phase	BS Window Ratio	Value	Phase	SS Window Ratio	Value	Phase	LS Window Ratio	Value	
Before		0.7410	Before		0.4858	Before		0.2965	
	0.7039 (Minimum)	0.7410 (Nominal)	0.7780 (Maximum)	0.4621 (Minimum)	0.4864 (Nominal)	0.5107 (Maximum)	0.2839 (Minimum)	0.2989 (Nominal)	0.3138 (Maximum)
Phase	BS Window Sum CPS	Value	Phase	SS Window Sum CPS	Value	Phase	LS Window Sum CPS	Value	
Before		29240	Before		12970	Before		1333	
	27890 (Minimum)	29350 (Nominal)	30820 (Maximum)	12330 (Minimum)	12980 (Nominal)	13630 (Maximum)	1270 (Minimum)	1337 (Nominal)	1404 (Maximum)

Before: 29-Aug-2011 17:02

High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Photo-multiplier High Voltages Calibrations									
Phase	BS PM High Voltage (Command) V	Value	Phase	SS PM High Voltage (Command) V	Value	Phase	LS PM High Voltage (Command) V	Value	
Before		1697	Before		1864	Before		1526	
	1594 (Minimum)	1694 (Nominal)	1794 (Maximum)	1754 (Minimum)	1854 (Nominal)	1954 (Maximum)	1418 (Minimum)	1518 (Nominal)	1618 (Maximum)

Before: 29-Aug-2011 17:02

High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Crystal Quality Resolutions Calibration									
Phase	BS Crystal Resolution %	Value	Phase	SS Crystal Resolution %	Value	Phase	LS Crystal Resolution %	Value	
Before		10.59	Before		10.70	Before		8.290	
	9.576 (Minimum)	10.58 (Nominal)	11.58 (Maximum)	9.511 (Minimum)	10.51 (Nominal)	11.51 (Maximum)	7.311 (Minimum)	8.311 (Nominal)	9.311 (Maximum)

(Minimum) (Nominal) (Maximum) (Minimum) (Nominal) (Maximum) (Minimum) (Nominal) (Maximum)

Before: 29-Aug-2011 17:02

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
MCFL Calibration											
Phase	Raw B0 Resistivity OHMM		Value	Phase	Raw B1 Resistivity OHMM		Value	Phase	Raw B2 Resistivity OHMM		Value
Before			3889	Before			3823	Before			3832
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)

Before: 29-Aug-2011 17:03

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
HILT Caliper Calibration							
Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			7.753	Before			12.04
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)

Before: 29-Aug-2011 17:05

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Detector Calibration							
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkgd) GAPI		Value
Before			34.87	Before			159.5
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		157.1 (Minimum)	165.0 (Nominal)	206.3 (Maximum)

Before: 29-Aug-2011 17:00

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Zero Measurement							
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value
Master			28.35	Master			28.21
Before			28.34	Before			29.07
	5.000 (Minimum)	28.35 (Nominal)	40.00 (Maximum)		5.000 (Minimum)	28.21 (Nominal)	40.00 (Maximum)

Master: 15-Aug-2011 17:17 Before: 29-Aug-2011 17:02

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Ratio Measurement											
Phase	Thermal Near Corr. (Tank) CPS		Value	Phase	Thermal Far Corr. (Tank) CPS		Value	Phase	CNTC/CFTC (Tank)		Value
Master			4709	Master			2062	Master			2.284
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

Master: 15-Aug-2011 17:17

High resolution Integrated Logging Tool-DTS Wellsite Calibration		
Accelerometer Calibration		
Phase	Z-Axis Acceleration F/S2	Value
Before		32.16
	31.53 (Minimum)	32.19 (Nominal)
		32.84 (Maximum)

Before: 31-Aug-2011 0:05

High resolution Integrated Logging Tool-DTS Master Calibration							
Inversion results							
Phase	Rho Aluminum G/C3		Value	Phase	Rho Magnesium G/C3		Value
Master			2.598	Master			1.688
	2.586 (Minimum)	2.596 (Nominal)	2.606 (Maximum)		1.676 (Minimum)	1.686 (Nominal)	1.696 (Maximum)
Phase	Pe Aluminum		Value	Phase	Pe Magnesium		Value
Master			2.550	Master			2.623
	2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)		2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)

Master: 29-Aug-2011 15:18

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		0.1847	Master		0.2826	Master		0.4174
	-0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)			-1.000 (Minimum) 0 (Nominal) 1.000 (Maximum)			-1.500 (Minimum) 0 (Nominal) 1.500 (Maximum)	
Phase	BS Max Deviation %	Value	Phase	SS Max Deviation %	Value	Phase	LS Max Deviation %	Value
Master		0.6784	Master		1.081	Master		1.083
	-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: 29-Aug-2011 15:18

High resolution Integrated Logging Tool-DTS Master Calibration

Zero Measurement

Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		28.35	Master		28.21
	5.000 (Minimum) 28.35 (Nominal) 40.00 (Maximum)			5.000 (Minimum) 28.21 (Nominal) 40.00 (Maximum)	

Master: 15-Aug-2011 17:17

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		4709	Master		2062	Master		2.284
	4700 (Minimum) 5800 (Nominal) 6900 (Maximum)			1900 (Minimum) 2400 (Nominal) 2900 (Maximum)			2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	

Master: 15-Aug-2011 17:17

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector
Enhanced DTS Cartridge

EDTG - A/B
EDTC - B

Auxiliary Equipment:

EDTC Housing

EDTH - B

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration F/S2	Value
Before		32.11
	31.53 (Minimum) 32.19 (Nominal) 32.84 (Maximum)	

Before: 31-Aug-2011 0:09

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		36.36	Before		147.5	Before		160.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			134.1 (Minimum) 147.5 (Nominal) 160.9 (Maximum)			145.0 (Minimum) 160.0 (Nominal) 175.0 (Maximum)	

Before: 29-Aug-2011 17:01

Well: **NYSTA TANDEM LOT 1**
Field: **WILDCAT**
County: **ROCKLAND**
State: **NEW YORK**

PLATFORM EXPRESS
ARRAY INDUCTION
GAMMA RAY / CALIPER