



Run 4

## Date Created: 23-AUG-2007 5:19:36

## Depth Measuring Device

## Tension Device

## Logging Cable

## Depth Control Parameters

### Depth Control Remarks

1. DEPTH CONTROL PROCEDURES FOLLOWED AS PER SLB STANDARD
2. IDW PRIMARY DEPTH CONTROL
3. Z-CHART SECONDARY DEPTH CONTROL
- 4.
- 5.
- 6.

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 SERVICES2  
OS1:  
OS2:  
OS3:  
OS4:  
OS5:

REMARKS: RUN NUMBER 2

MATRIX: LIMESTONE, 2.71 G/CC

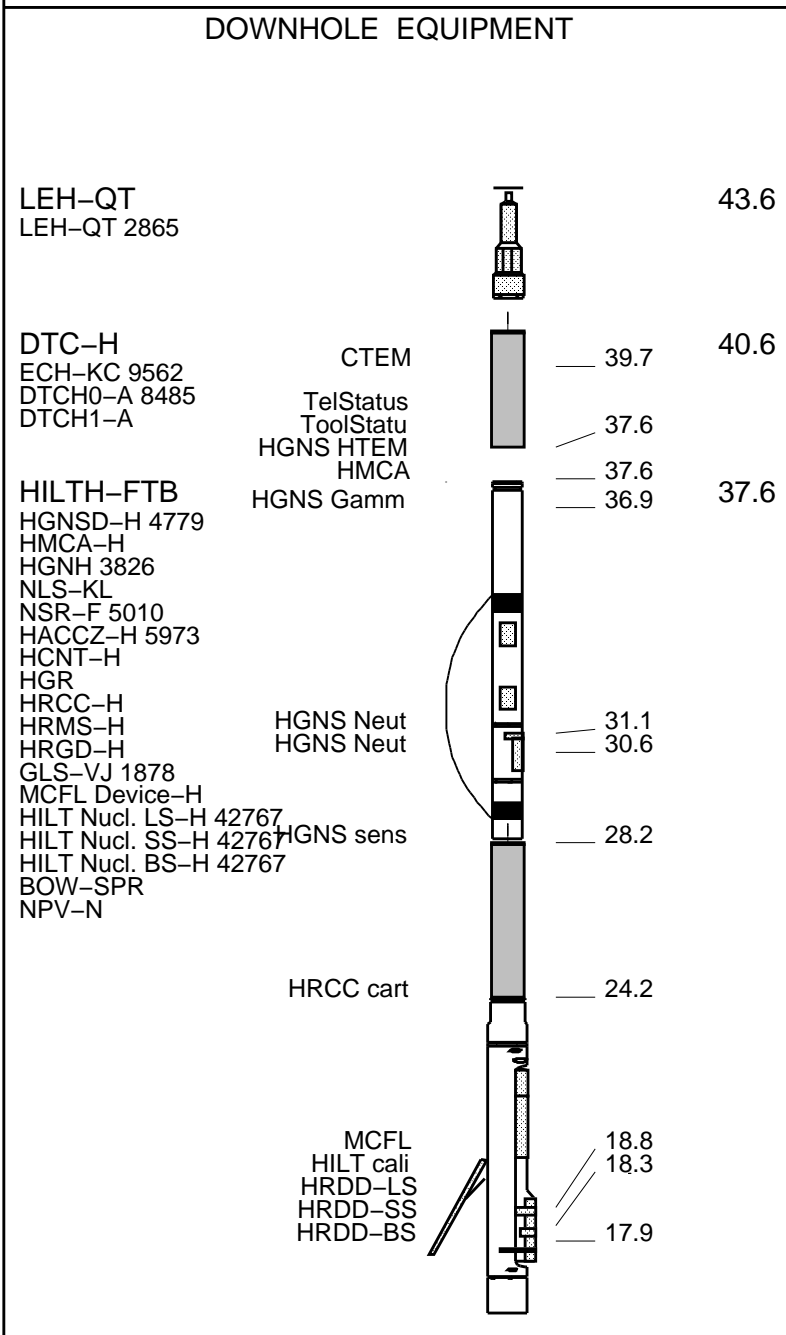
FLUID DENSITY: 1.0 G/CC

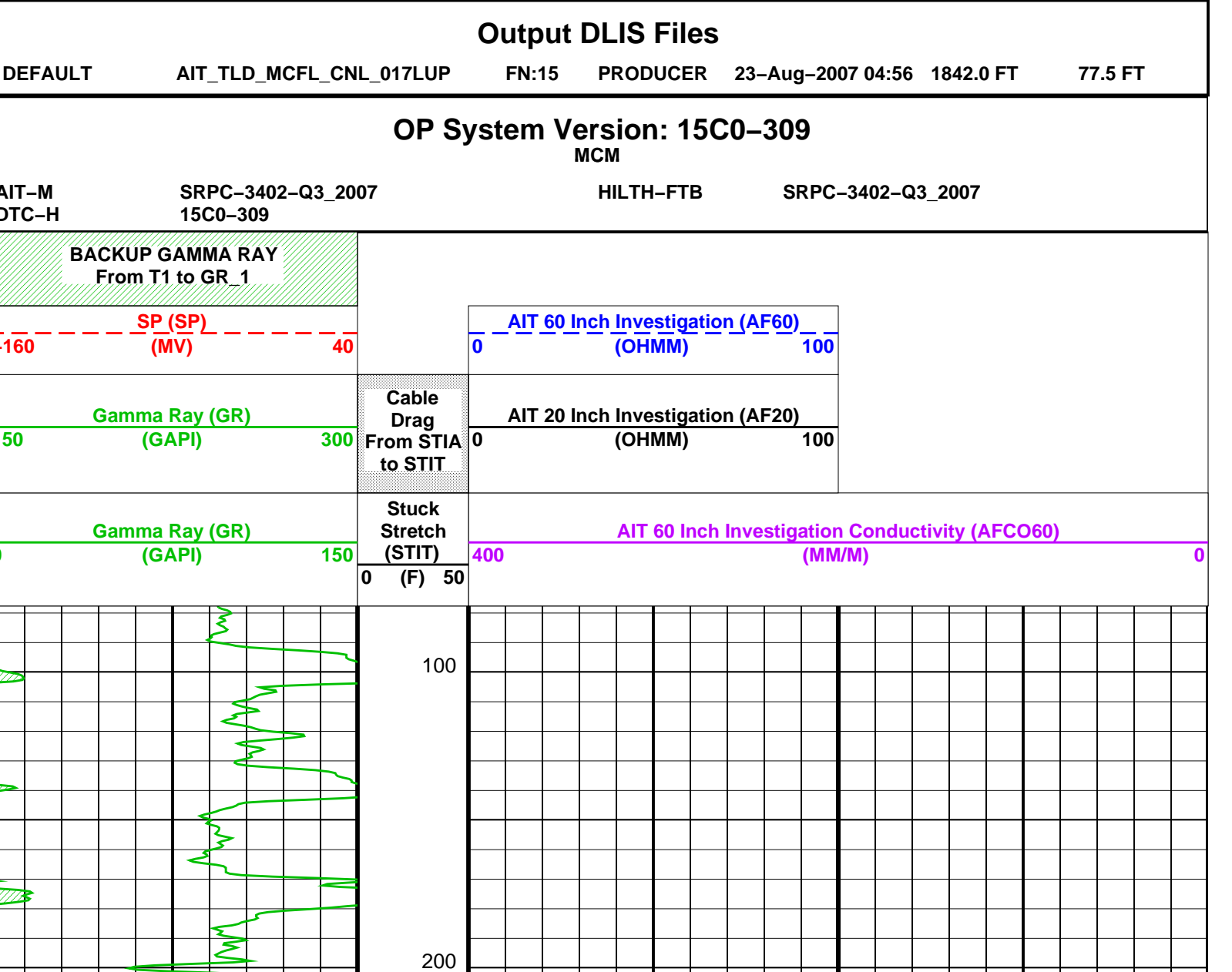
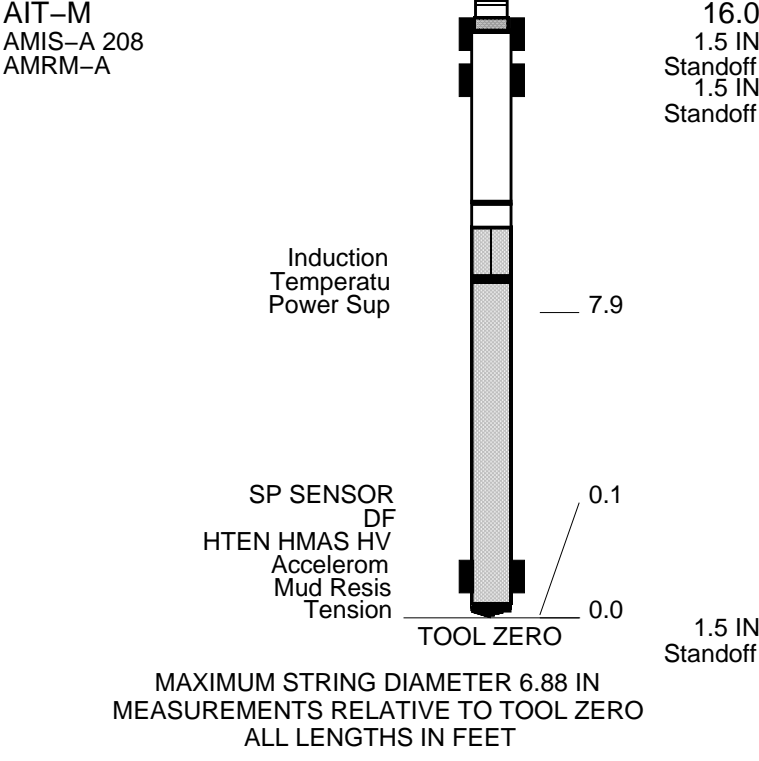
CALIPER CHECK PERFORMED, MEASURED VALUE WAS 9.1 IN. NOMINAL VALUE WAS 8.9 IN.

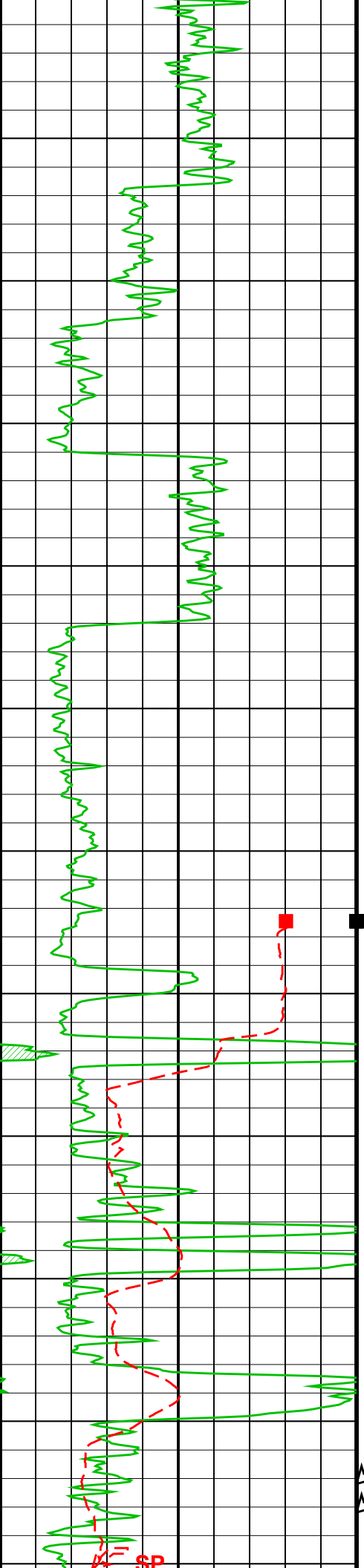
YOUR CREW: N. CARTER					
THANK YOU FOR CHOOSING SCHLUMBERGER					
RUN 1			RUN 2		
SERVICE ORDER #:		11863124	SERVICE ORDER #:		
PROGRAM VERSION:		15C0-309	PROGRAM VERSION:		
FLUID LEVEL:		30 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

**SURFACE EQUIPMENT**  
GSR-U/Y 632501 WITM (DTS)-A  
NCT-B  
CNB-AB  
NCS-VB







STIA  
STIT

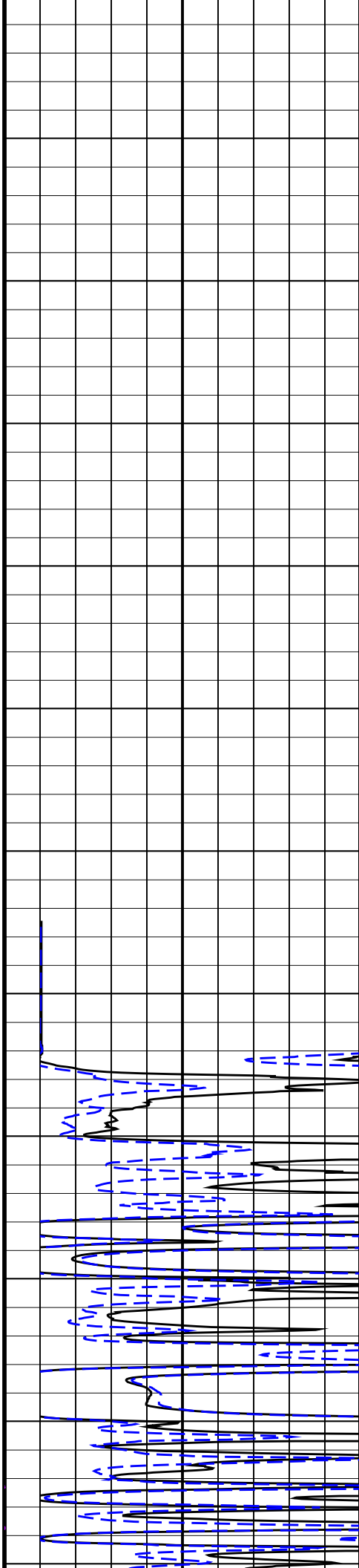
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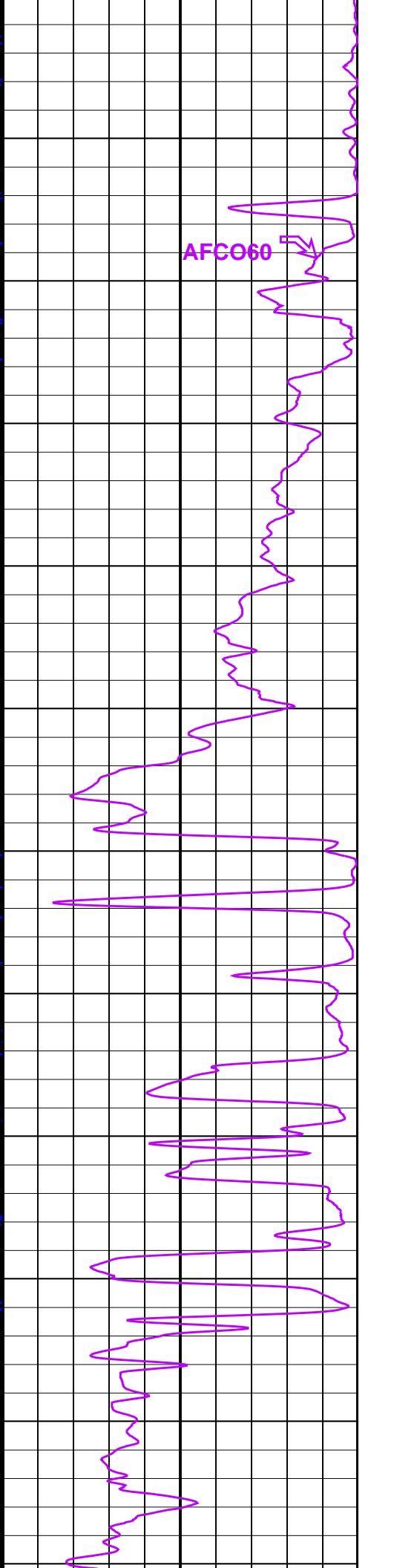
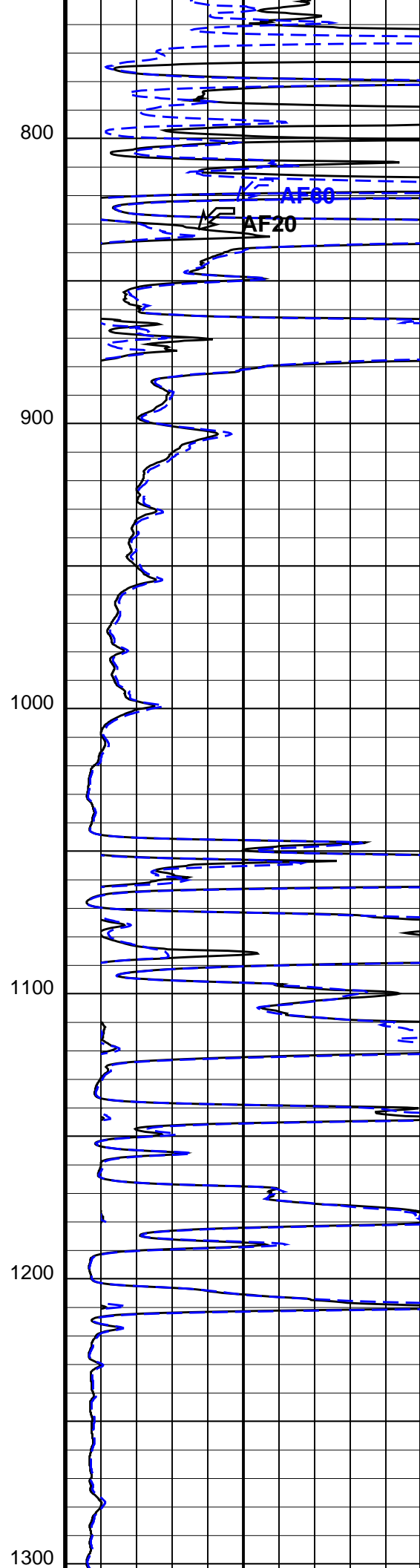
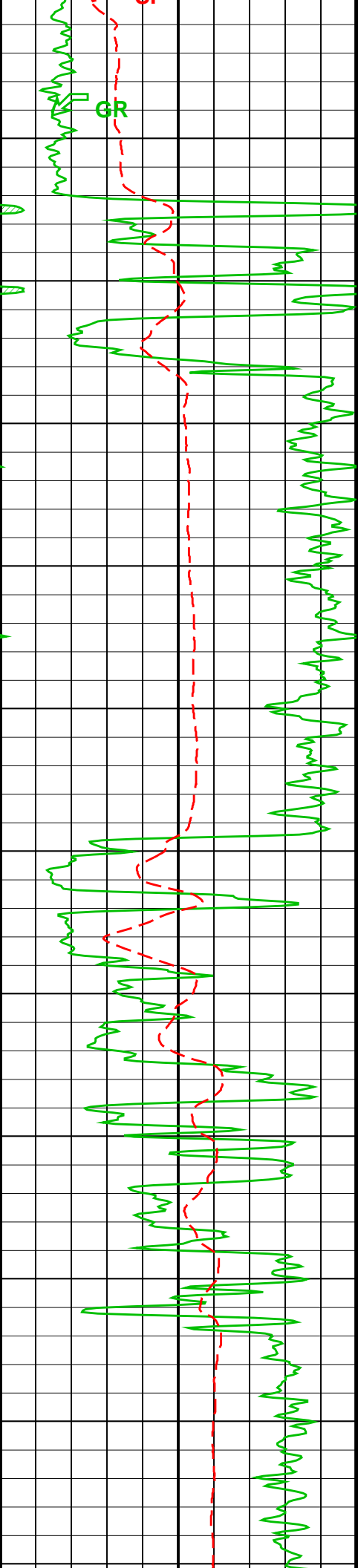
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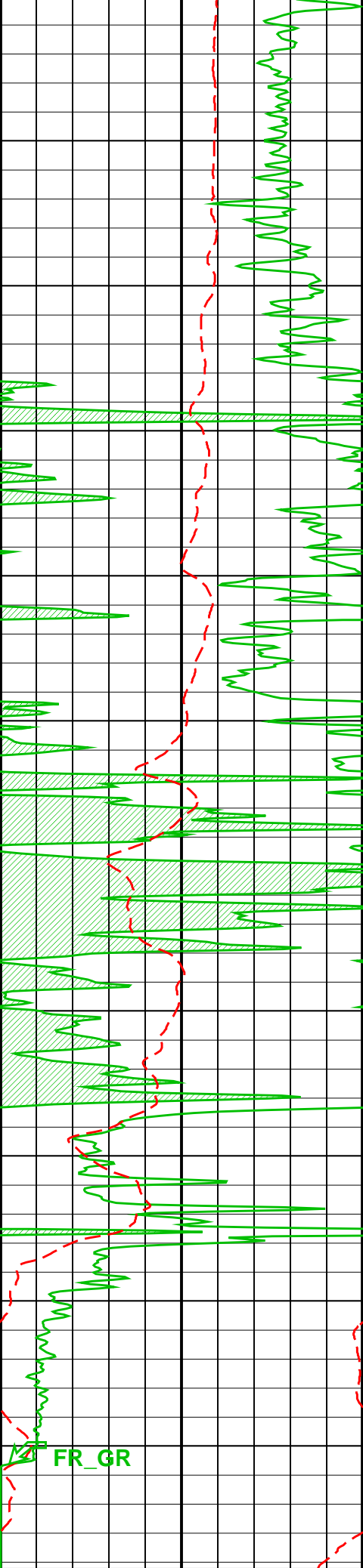
500

600

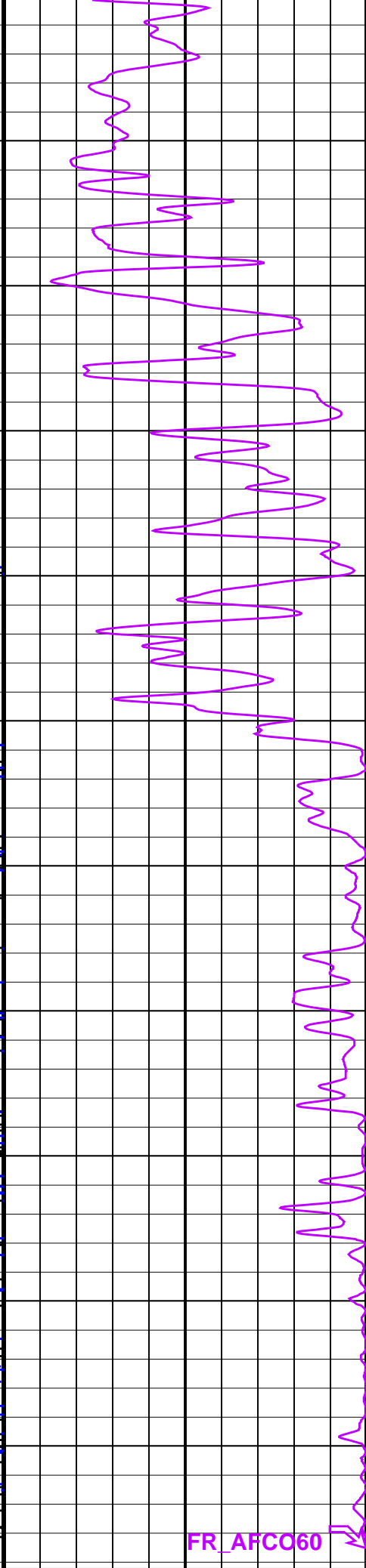
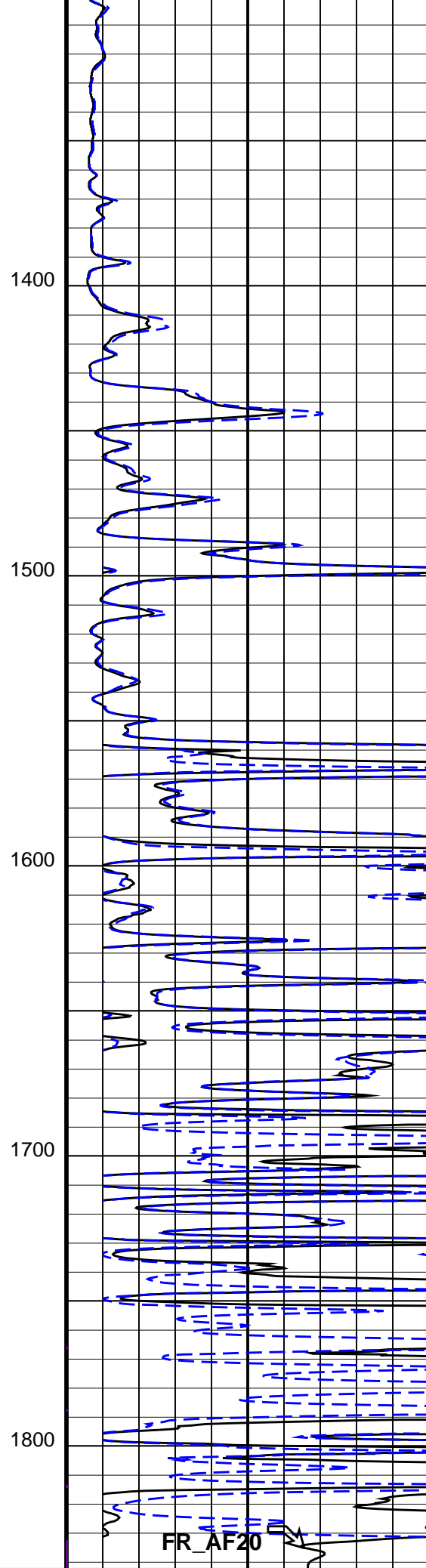
700







Stuck





Gamma Ray (GR) (GAPI)			150	Stretch (STIT)  0 (F) 50	AIT 60 Inch Investigation Conductivity (AFCO60) (MM/M)			400	0
Gamma Ray (GR) (GAPI)			300		AIT 20 Inch Investigation (AF20) (OHMM)		0	100	
SP (SP) (MV)			-160	40	AIT 60 Inch Investigation (AF60) (OHMM)		0	100	
BACKUP GAMMA RAY From T1 to GR_1									

## 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	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
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	0.25	IN
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)	88	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	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	85	DEGF
SPNV	SP Next Value	-100	MV
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHT	Bottom Hole Temperature (used in calculations)	88	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	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	85	DEGF
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	88	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	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	85	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth – Driller	1851.00	FT
TDL	Total Depth – Logger	1843.00	FT
System and Miscellaneous			
BS	Bit Size	8.750	IN
DFD	Drilling Fluid Density	9.00	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	30.00	FT
MST	Mud Sample Temperature	85.00	DEGF
TD	Total Depth	1843	FT

# OP System Version: 15C0-309

MCM

AIT-M  
DTC-H

SRPC-3402-Q3\_2007  
15C0-309

HILTH-FTB

SRPC-3402-Q3\_2007

## Output DLIS Files

DEFAULT

AIT\_TLD\_MCFL\_CNL\_017LUP

FN:15

PRODUCER

23-Aug-2007 04:56

Company: STORM CAT ENERGY (USA) OPERATING CORP

Well: KAMALMAZ 1-13H

## Output DLIS Files

DEFAULT

AIT\_TLD\_MCFL\_CNL\_017LUP

FN:15

PRODUCER

23-Aug-2007 04:56

# OP System Version: 15C0-309

MCM

AIT-M  
DTC-H

SRPC-3402-Q3\_2007  
15C0-309

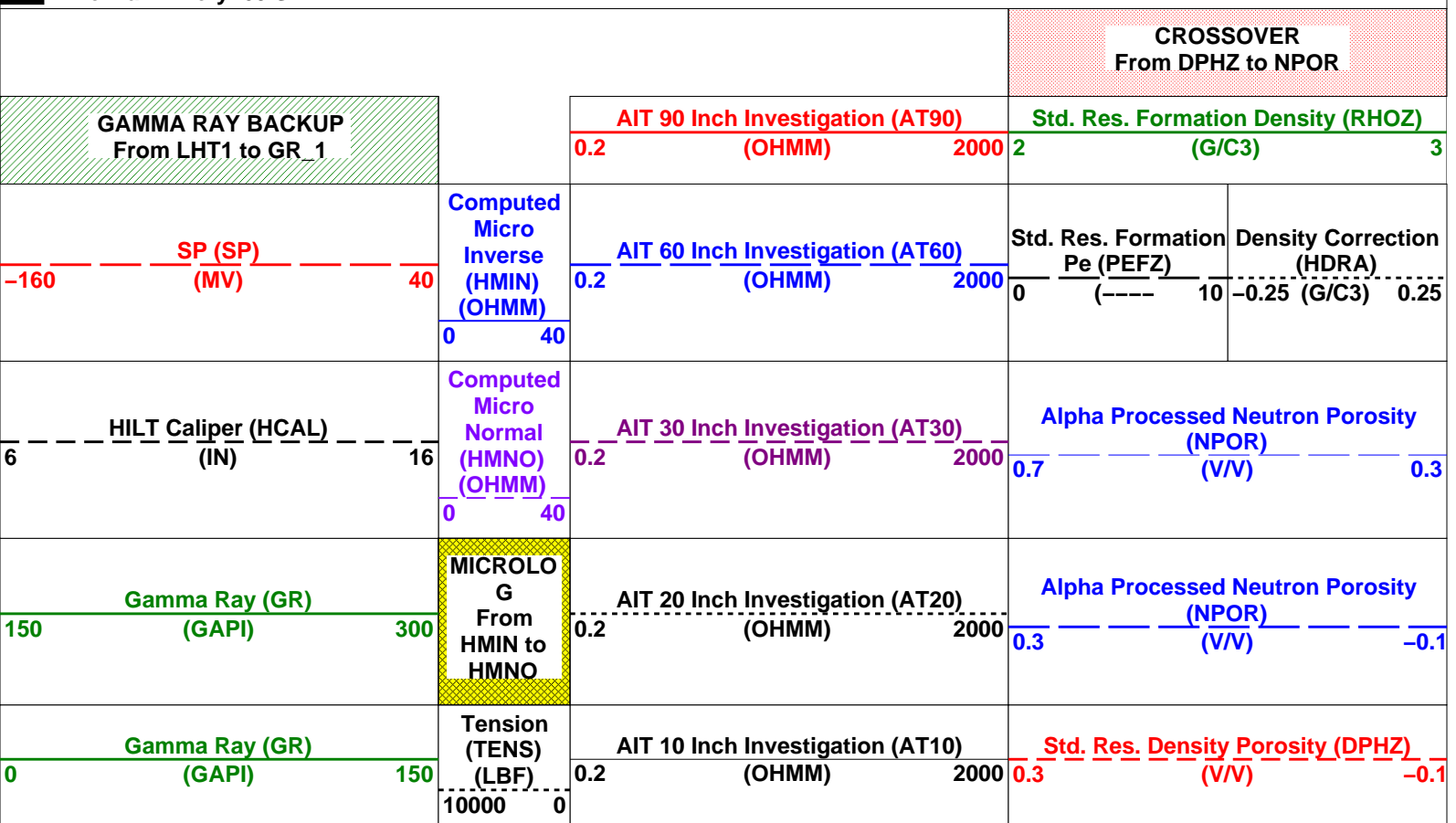
HILTH-FTB

SRPC-3402-Q3\_2007

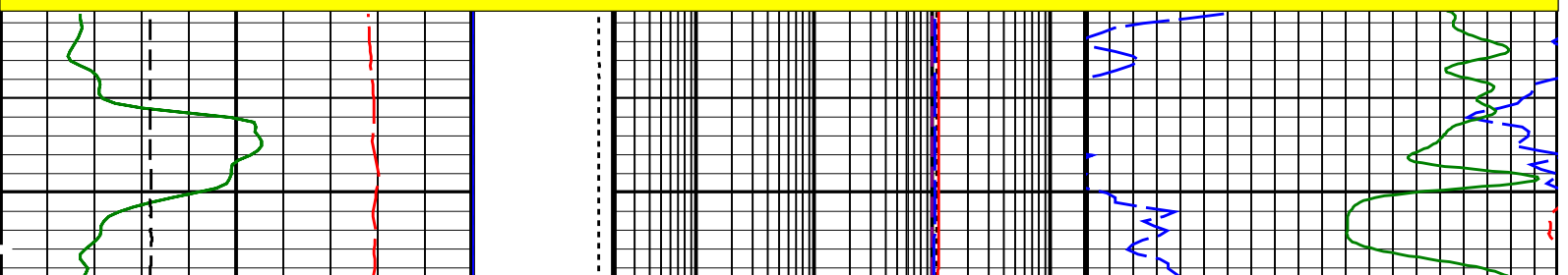
### PIP SUMMARY

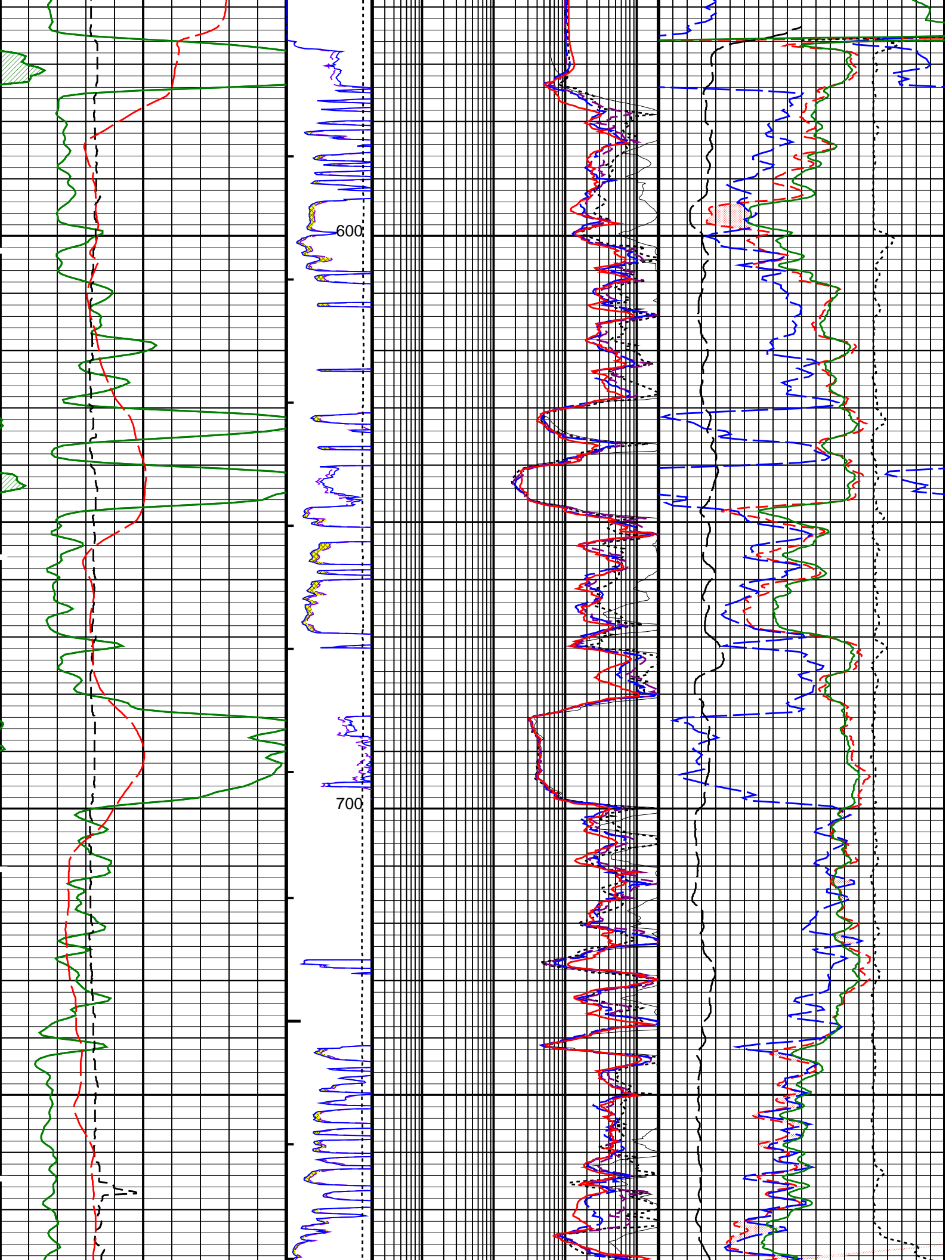
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

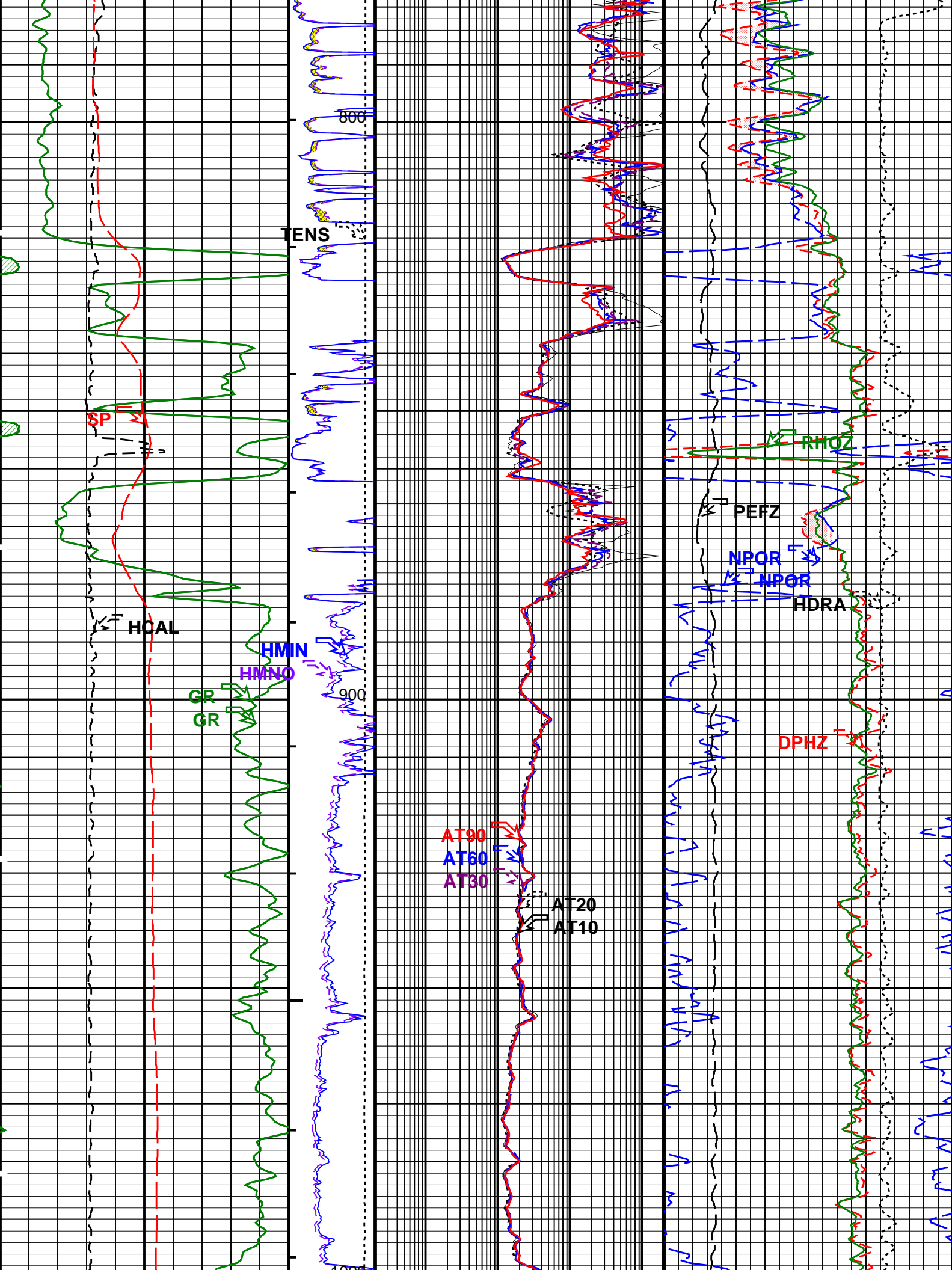
Time Mark Every 60 S

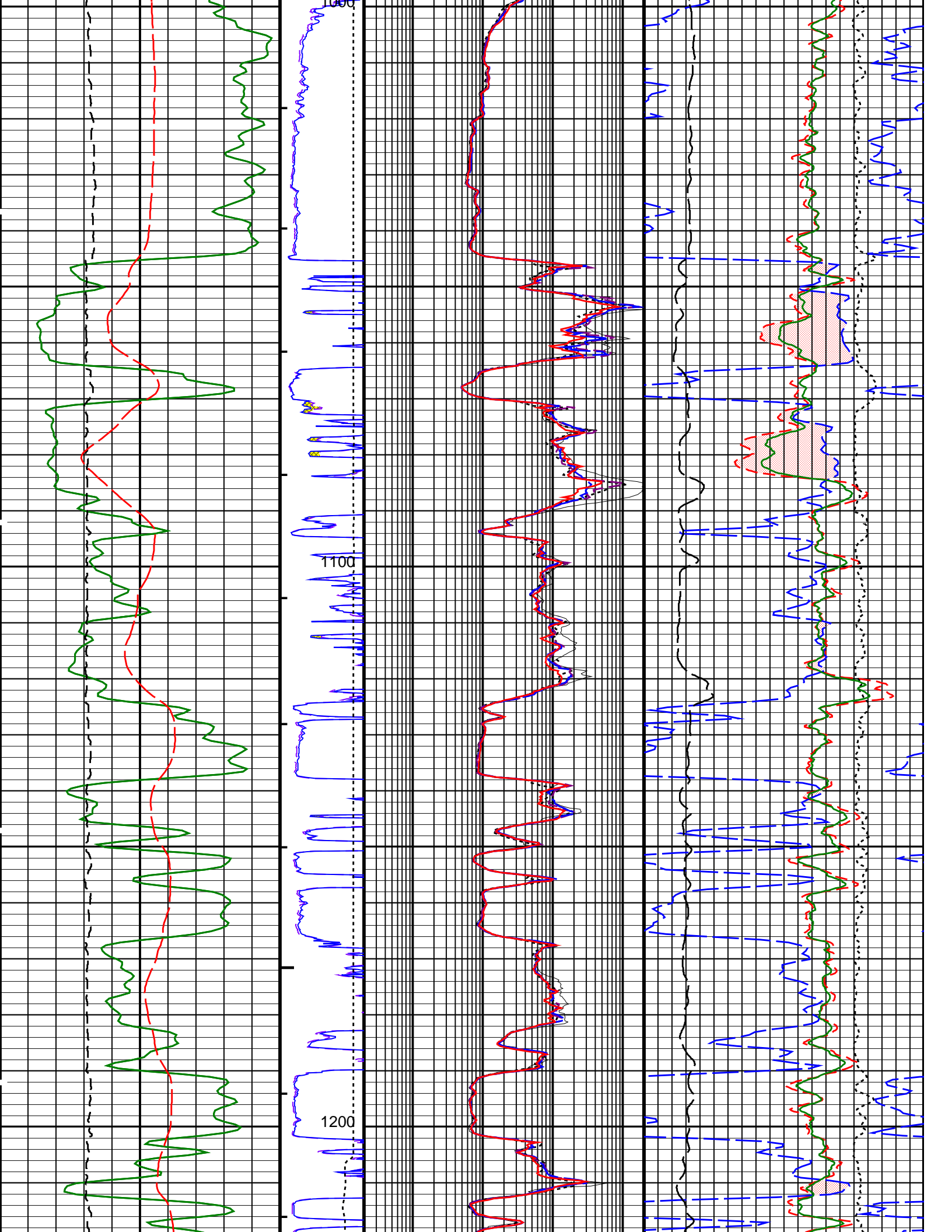


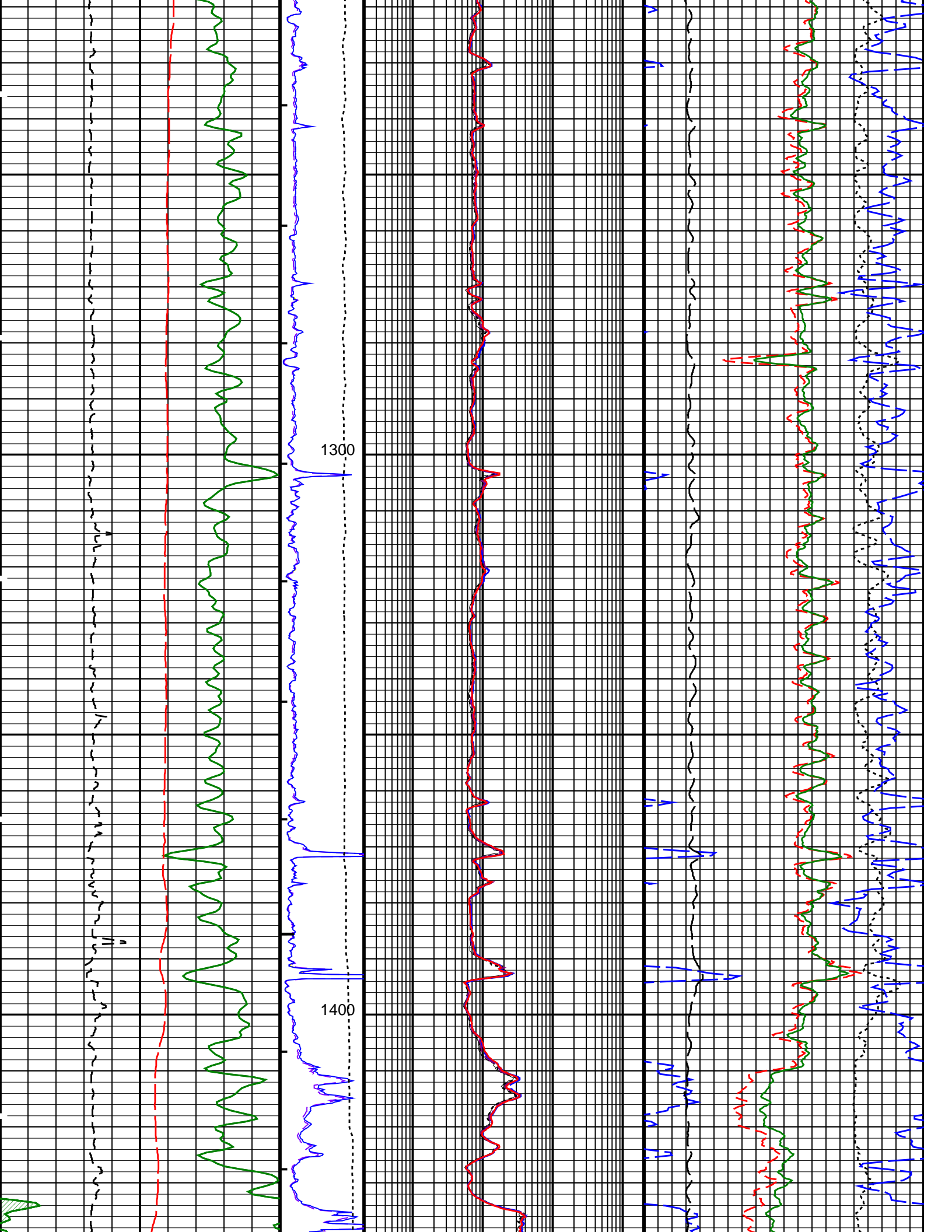
PLATFORM EXPRESS - TRIPLE COMBO MAIN PASS / 5 IN = 100 FT



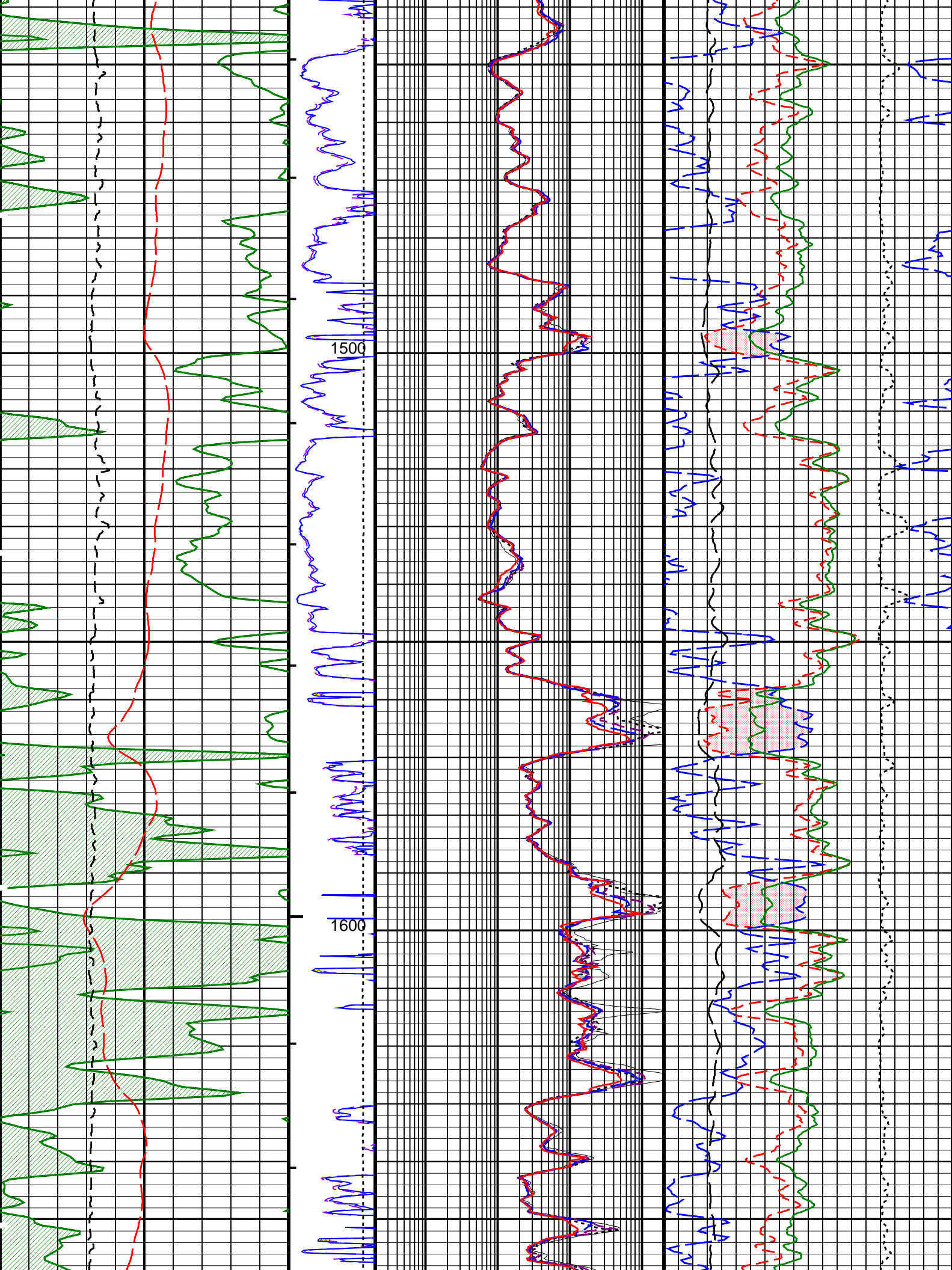
















6	HILT Caliper (HCAL) (IN)	16	0.2	AIT 30 Inch Investigation (AT30) (OHMM)	2000	0.7	Alpha Processed Neutron Porosity (NPOR) (V/V)	0.3
			0	40				
	SP (SP) (MV)	40	0.2	AIT 60 Inch Investigation (AT60) (OHMM)	2000	0	Std. Res. Formation Pe (PEFZ) (-----)	Density Correction (HDRA) (G/C3)
			0	40		10	-0.25	0.25
	GAMMA RAY BACKUP From LHT1 to GR_1		0.2	AIT 90 Inch Investigation (AT90) (OHMM)	2000	2	Std. Res. Formation Density (RHOZ) (G/C3)	3
							CROSSOVER From DPHZ to NPOR	

#### PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

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	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
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	0.25	IN
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	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	88	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	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	85	DEGF
SPNV	SP Next Value	-100	MV
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)	88	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
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

GDEV	Average Angular Deviation of Borehole from Normal	0.01	DEG
GGRD	Geothermal Gradient		DF/F
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	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.71	G/C3
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	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	88	DEGF
FCD	Future Casing (Outer) Diameter	9.675	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	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	85	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
TDD	Total Depth – Driller	1851.00	FT
TDL	Total Depth – Logger	1843.00	FT
System and Miscellaneous			
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	36.00	LB/F
DFD	Drilling Fluid Density	9.00	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	30.00	FT
MST	Mud Sample Temperature	85.00	DEGF
RMFS	Resistivity of Mud Filtrate Sample	0.8360	OHMM
TD	Total Depth	1843	FT

Format: MUD\_TCOM\_MAIN    Vertical Scale: 5" per 100'    Graphics File Created: 23-Aug-2007 04:56

## OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
DTC-H	15C0-309		

## Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_017LUP	FN:15	PRODUCER	23-Aug-2007 04:56
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Company: STORM CAT ENERGY (USA) OPERATING CORP    Well: KAMALMAZ 1-13H

## Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_011LUP	FN:10	PRODUCER	23-Aug-2007 03:58	1851.0 FT	1329.0 FT
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## Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_014PUP	FN:12	PRODUCER	23-Aug-2007 04:26	1851.5 FT	1333.2 FT
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## OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
DTC-H	15C0-309		

## Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
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## Depth & Time

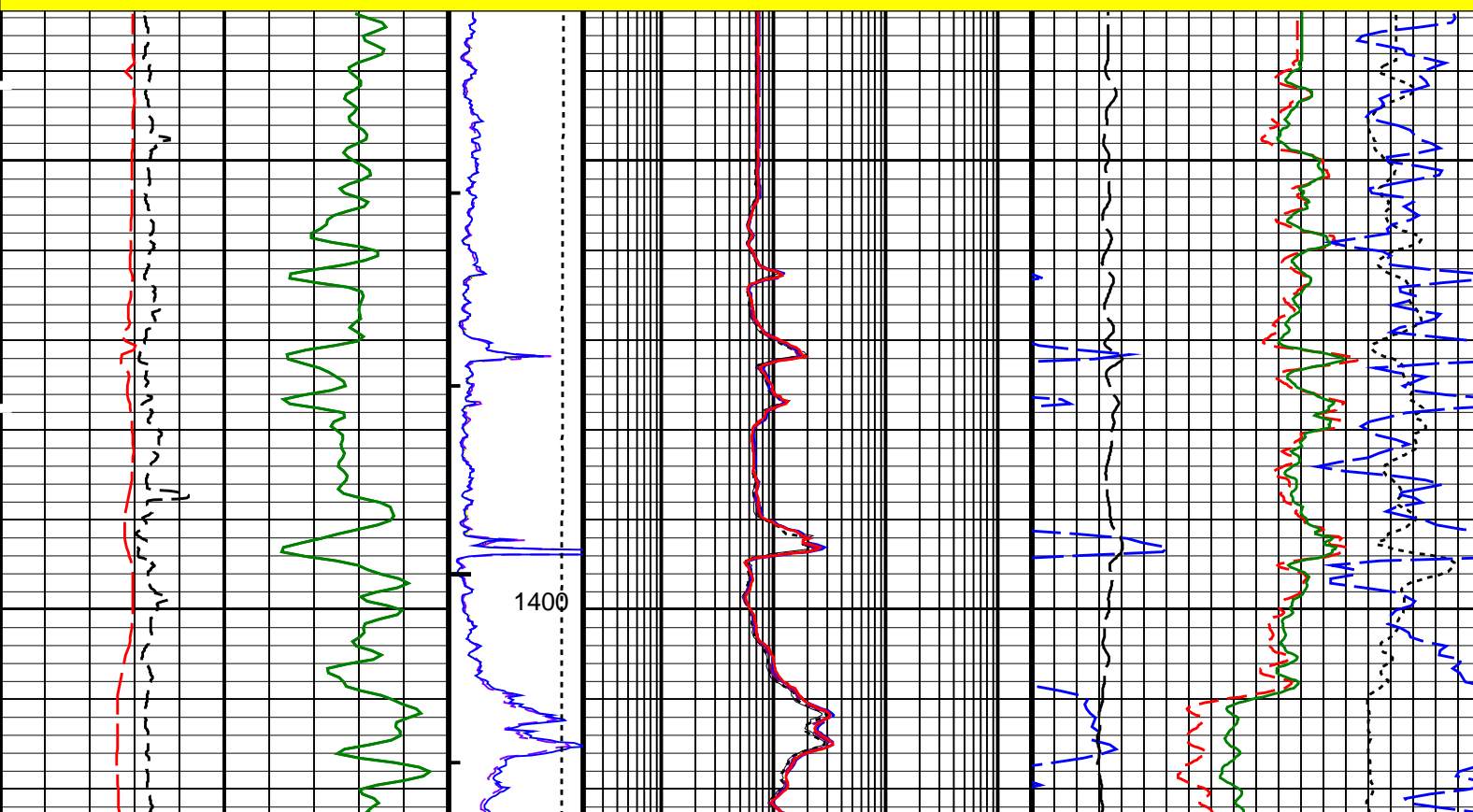
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1662.5 04:27:55

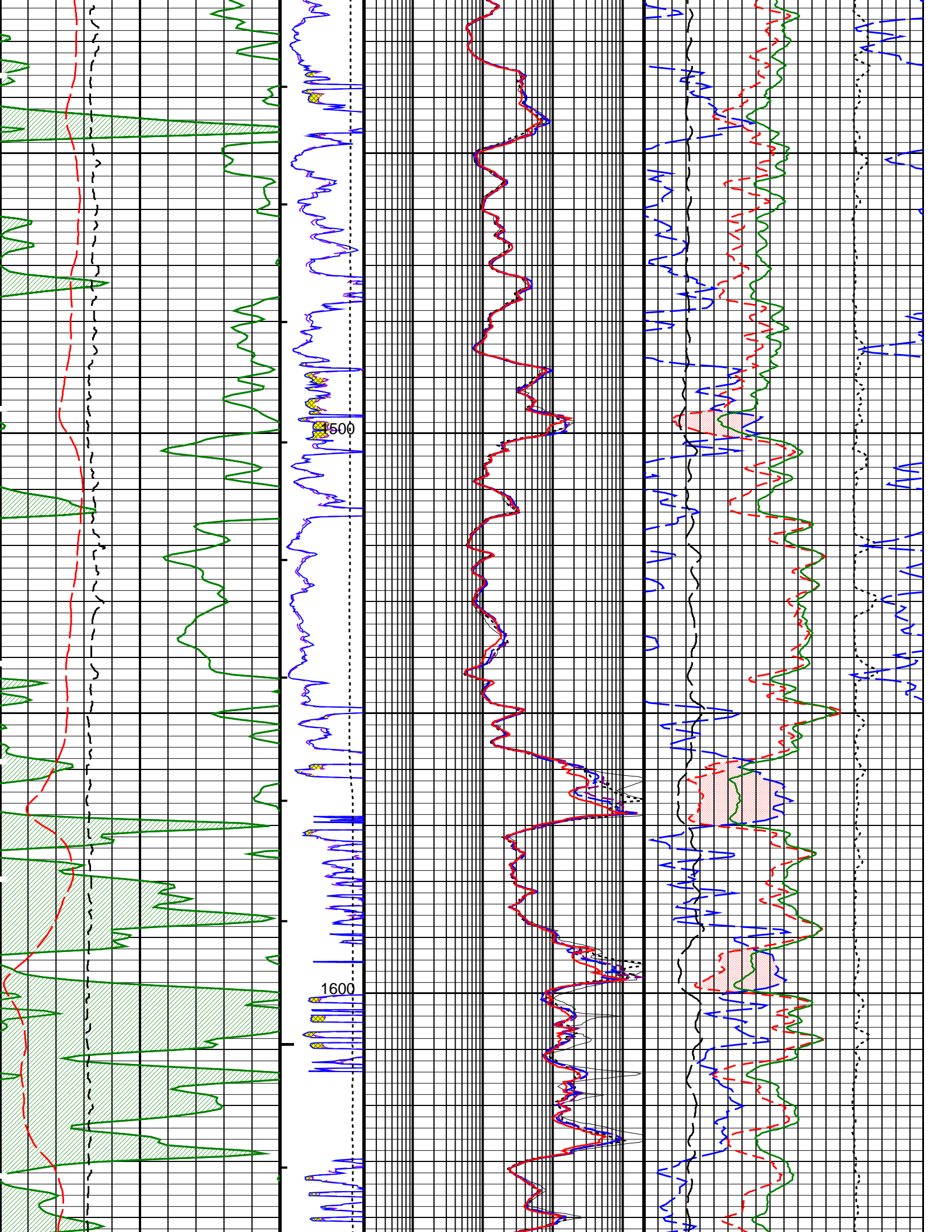
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

**Time Mark Every 60 S**

				CROSSOVER From DPHZ to NPOR	
GAMMA RAY BACKUP From LHT1 to GR_1			AIT 90 Inch Investigation (AT90) 0.2 (OHMM) 2000	Std. Res. Formation Density (RHOZ) 2 (G/C3) 3	
<div> <div>SP (SP) (MV)</div> <div>-160 40</div> </div>		<div> <div>Computed Micro Inverse (HMIN) (OHMM)</div> <div>0 40</div> </div>	<div> <div>AIT 60 Inch Investigation (AT60) (OHMM)</div> <div>0.2 2000</div> </div>	<div> <div>Std. Res. Formation Pe (PEFZ) (----</div> <div>0 10</div> </div>	<div> <div>Density Correction (HDRA) (----</div> <div>-0.25 (G/C3) 0.25</div> </div>
<div> <div>HILT Caliper (HCAL) (IN)</div> <div>6 16</div> </div>		<div> <div>Computed Micro Normal (HMNO) (OHMM)</div> <div>0 40</div> </div>	<div> <div>AIT 30 Inch Investigation (AT30) (OHMM)</div> <div>0.2 2000</div> </div>	<div> <div>Alpha Processed Neutron Porosity (NPOR) (V/V)</div> <div>0.7 0.3</div> </div>	
<div> <div>Gamma Ray (GR) (GAPI)</div> <div>150 300</div> </div>		MICROLOG G From HMIN to HMNO	<div> <div>AIT 20 Inch Investigation (AT20) (OHMM)</div> <div>0.2 2000</div> </div>	<div> <div>Alpha Processed Neutron Porosity (NPOR) (V/V)</div> <div>0.3 -0.1</div> </div>	
<div> <div>Gamma Ray (GR) (GAPI)</div> <div>0 150</div> </div>		<div> <div>Tension (TENS) (LBF)</div> <div>10000 0</div> </div>	<div> <div>AIT 10 Inch Investigation (AT10) (OHMM)</div> <div>0.2 2000</div> </div>	<div> <div>Std. Res. Density Porosity (DPHZ) (V/V)</div> <div>0.3 -0.1</div> </div>	

**PLATFORM EXPRESS – TRIPLE COMBO REPEAT SECTION / 5 IN = 100 FT**







**AIR QUALITY** ..... 1

241 P. 200 14 P. 200 14 (DBU7)



0	Gamma Ray (GR) (GAPI)	150	(TENS) (LBF)	0.2	AIT 10 Inch Investigation (AT10) (OHMM)	2000	0.3	Std. Res. Density Porosity (DPHZ) (V/V)	-0.1
			10000	0					
150	Gamma Ray (GR) (GAPI)	300	MICROLO G From HMIN to HMNO	0.2	AIT 20 Inch Investigation (AT20) (OHMM)	2000	0.3	Alpha Processed Neutron Porosity (NPOR) (V/V)	-0.1
6	HILT Caliper (HCAL) (IN)	16	Computed Micro Normal (HMNO) (OHMM)	0.2	AIT 30 Inch Investigation (AT30) (OHMM)	2000	0.7	Alpha Processed Neutron Porosity (NPOR) (V/V)	0.3
			0	40					
-160	SP (SP) (MV)	40	Computed Micro Inverse (HMIN) (OHMM)	0.2	AIT 60 Inch Investigation (AT60) (OHMM)	2000	0	Std. Res. Formation Pe (PEFZ)	Density Correction (HDRA)
			0	40			10	(-----)	-0.25 (G/C3) 0.25
	GAMMA RAY BACKUP From LHT1 to GR_1				AIT 90 Inch Investigation (AT90) (OHMM)	2000	2	Std. Res. Formation Density (RHOZ) (G/C3)	3
								CROSSOVER From DPHZ to NPOR	

#### PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

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	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
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	0.25	IN
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	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	110	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	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HITEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	85	DEGF
SPNV	SP Next Value	0	MV
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)	110	DEGF
BSCO	Borehole Salinity Correction Option	NO	

COCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
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	0.01	DF/F
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	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.71	G/C3
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	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	110	DEGF
FCD	Future Casing (Outer) Diameter	9.675	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	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	85	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
TDD	Total Depth - Driller	1851.00	FT
TDL	Total Depth - Logger	1851.00	FT
System and Miscellaneous			
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	36.00	LB/F
DFD	Drilling Fluid Density	9.00	LB/G
DO	Depth Offset for Playback	0.5	FT
FLEV	Fluid Level	30.00	FT
MST	Mud Sample Temperature	85.00	DEGF
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.8360	OHMM
TD	Total Depth	1851	FT

Format: MUD\_TCOM\_REPEAT\_SECTION    Vertical Scale: 5" per 100'    Graphics File Created: 23-Aug-2007 04:26

## OP System Version: 15C0-309

MCM

AIT-M	SRPC-3402-Q3_2007	HILTH-FTB	SRPC-3402-Q3_2007
DTC-H	15C0-309		

### Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_011LUP	FN:10	PRODUCER	23-Aug-2007 03:58	1851.0 FT	1329.0 FT
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### Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_014PUP	FN:12	PRODUCER	23-Aug-2007 04:26		
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Company: STORM CAT ENERGY (USA) OPERATING CORP    Well: KAMALMAZ 1-13H

### Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_014PUP	FN:12	PRODUCER	23-Aug-2007 04:26	1851.5 FT	1333.0 FT
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# Output DLIS Files

DEFAULT AIT\_TLD\_MCFL\_CNL\_017LUP FN:15 PRODUCER 23-Aug-2007 04:56

## OP System Version: 15C0-309

MCM

AIT-M  
DTC-H

SRPC-3402-Q3\_2007  
15C0-309

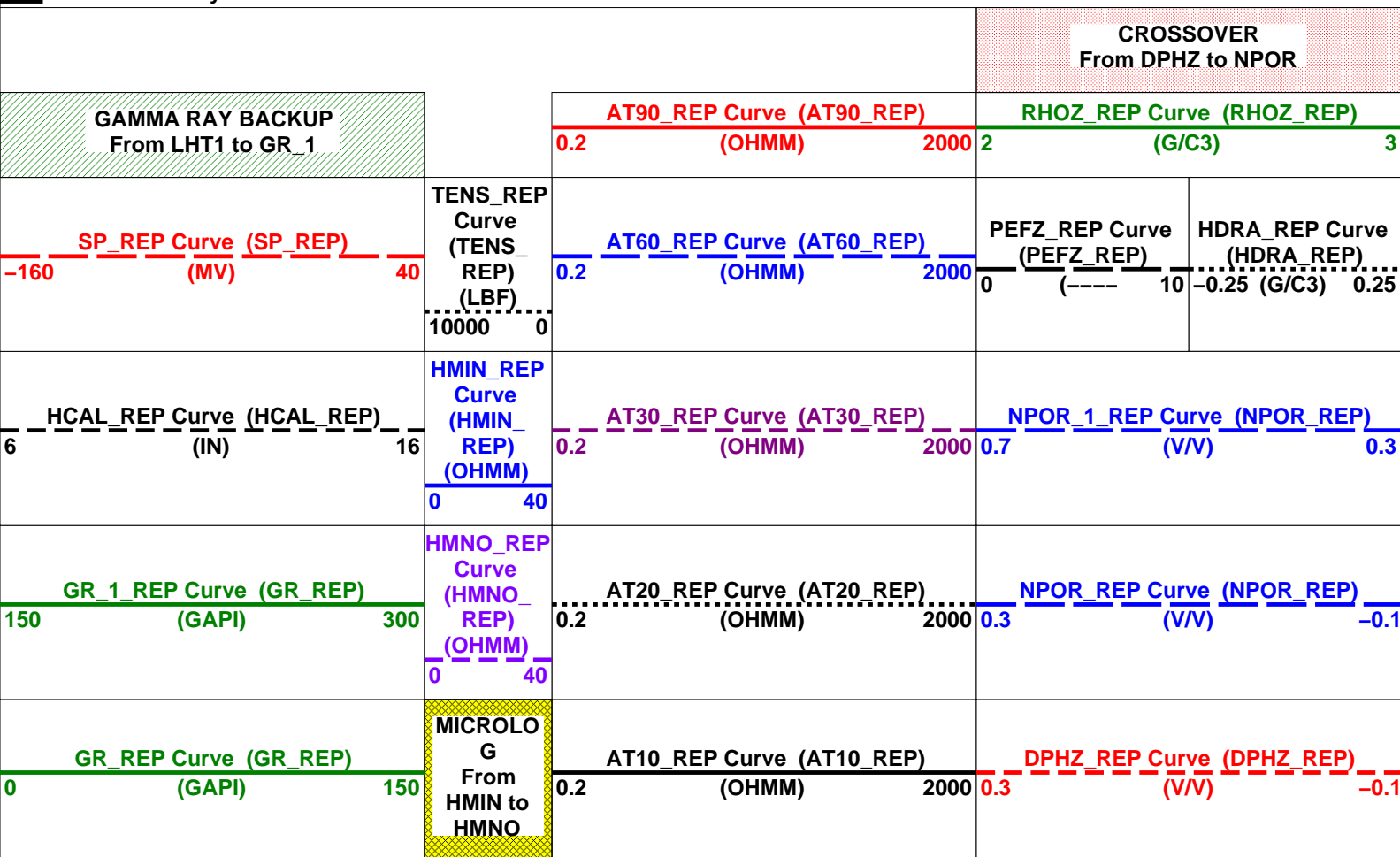
HILTH-FTB

SRPC-3402-Q3\_2007

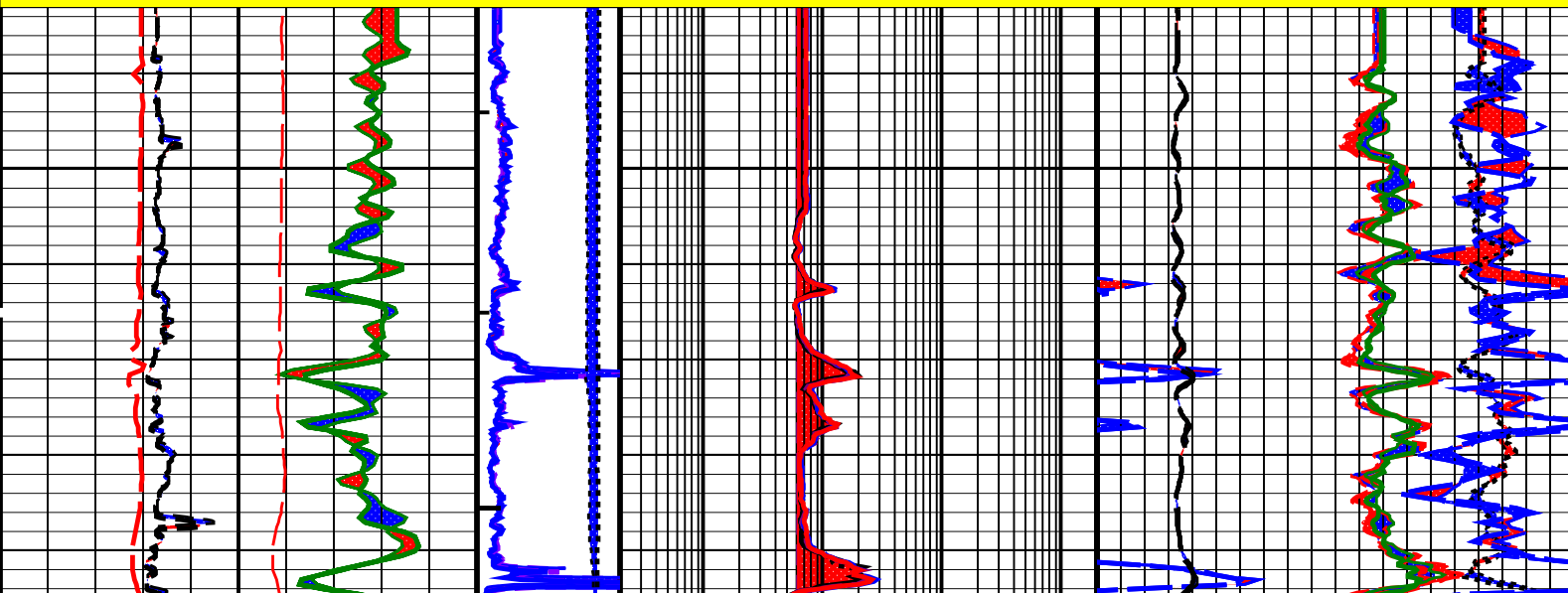
### PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

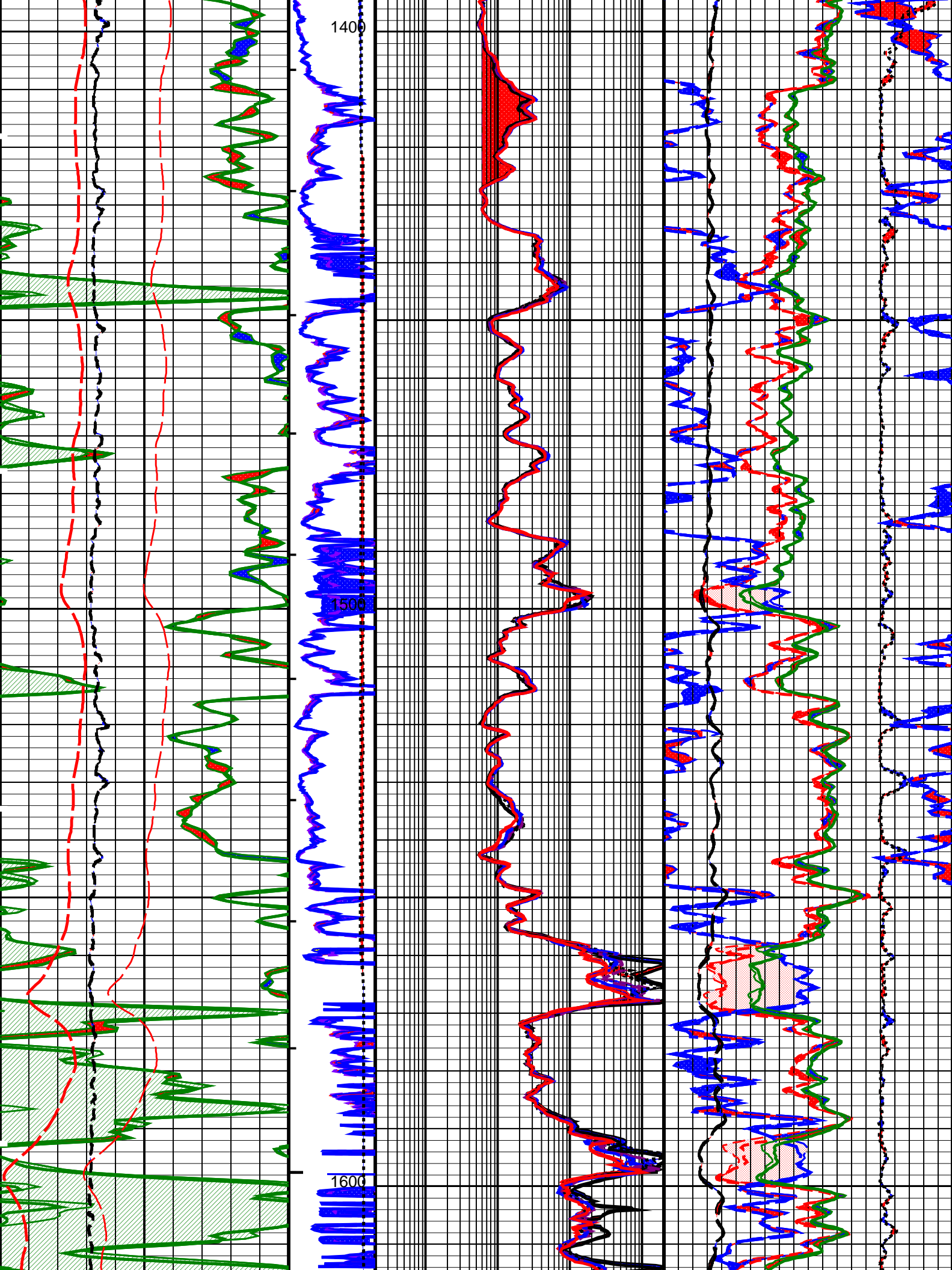
Time Mark Every 60 S

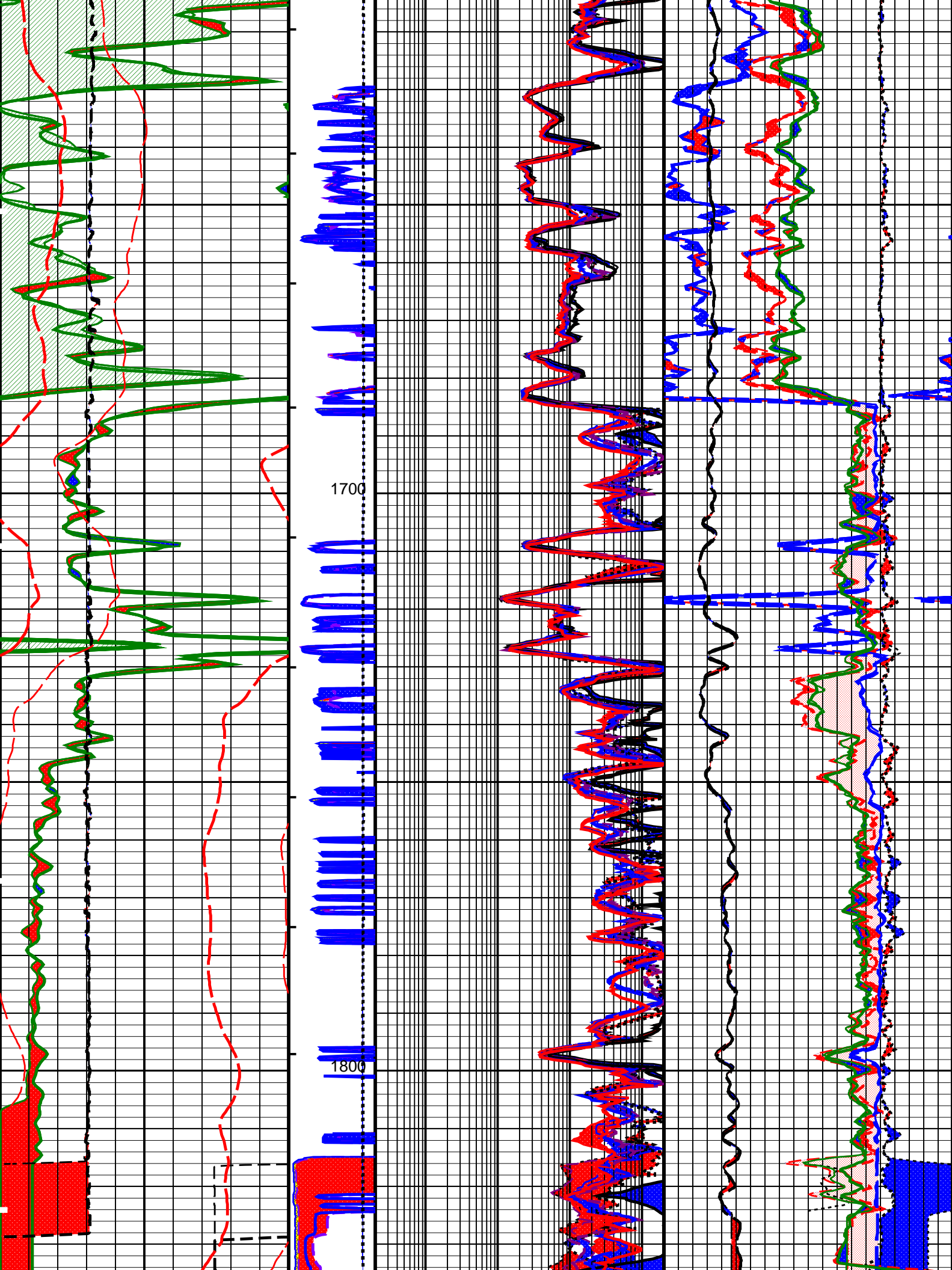


PLATFORM EXPRESS - TRIPLE COMBO REPEAT ANALYSIS / 5 IN = 100 FT

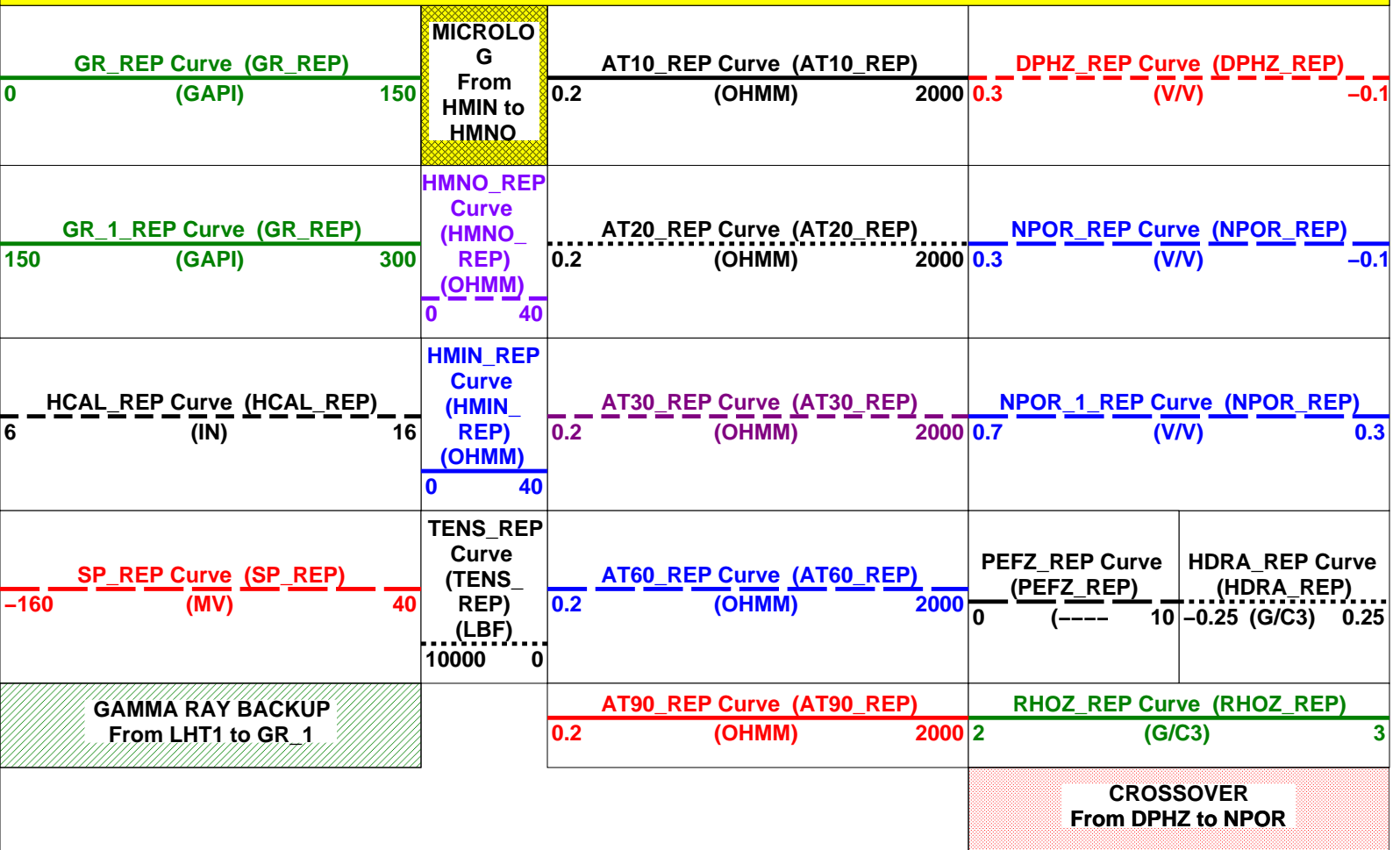








**PLATFORM EXPRESS – TRIPLE COMBO REPEAT ANALYSIS / 5 IN = 100 FT**



**PIP SUMMARY**

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

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	Yes
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
ACSED	Array Induction Casing Shoe Estimated Depth	-50000 FT
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	0.25 IN
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
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	88 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	AITM_RESIST

GTSE	Generalized Temperature Selection	HSTS_HTEM	1	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	85	DEGF
SHT	Surface Hole Temperature		-100	MV
SPNV	SP Next Value			
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)	88		DEGF
BSCO	Borehole Salinity Correction Option	NO		
CCCO	Casing & Cement Thickness Correction Option	NO		
DHC	Density Hole Correction	BS		
FD	Fluid Density	1		G/C3
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	0.01		DF/F
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	LIMESTONE		
MCCO	Mud Cake Correction Option	NO		
MCOR	Mud Correction	NATU		
MDEN	Matrix Density	2.71		G/C3
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	StdRes		
NSAR	HRDD Depth Sampling Rate	1		IN
PTCO	Pressure/Temperature Correction Option	NO		
SDAT	Standoff Data Source	SOCN		
SHT	Surface Hole Temperature	85		DEGF
SOCN	Standoff Distance	0.125		IN
SOCO	Standoff Correction Option	NO		
HOLEV: Integrated Hole/Cement Volume				
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)	88		DEGF
FCD	Future Casing (Outer) Diameter	9.675		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	AITM_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM		
HVCS	Integrated Hole Volume Caliper Selection	HCAL		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
SHT	Surface Hole Temperature	85		DEGF
STI: Stuck Tool Indicator				
TDL	Total Depth - Logger	1843.00		FT
System and Miscellaneous				
BS	Bit Size	8.750		IN
BSAL	Borehole Salinity	-50000.00		PPM
CSIZ	Current Casing Size	9.625		IN
CWEI	Casing Weight	36.00		LB/F
DFD	Drilling Fluid Density	9.00		LB/G
DORL	Depth Offset for Repeat Analysis	0.0		FT
FLEV	Fluid Level	30.00		FT
MST	Mud Sample Temperature	85.00		DEGF
RMFS	Resistivity of Mud Filtrate Sample	0.8360		OHMM
TD	Total Depth	1843		FT

Format: MUD\_TCOM\_MAIN\_REP    Vertical Scale: 5" per 100'    Graphics File Created: 23-Aug-2007 04:56

## OP System Version: 15C0-309

MCM

AIT-M                      SRPC-3402-Q3\_2007                      HILTH-FTB                      SRPC-3402-Q3\_2007  
DTC-H                      15C0-309

## Input DLIS Files

DEFAULT                      AIT\_TLD\_MCFL\_CNL\_014PUP                      FN:12                      PRODUCER                      23-Aug-2007 04:26                      1851.5 FT                      1333.0 FT

## Output DLIS Files

DEFAULT                      AIT\_TLD\_MCFL\_CNL\_017LUP                      FN:15                      PRODUCER                      23-Aug-2007 04:56

## 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: 8–Jun–2007 16:07 Before: 23–Aug–2007 3:24							
Thru Cal Magnitude – 0	0	0.6189	0.6186	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.267	1.267	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6300	0.6300	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.7115	0.7114	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.343	1.342	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.964	1.963	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.966	1.966	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.408	1.408	N/A	N/A	N/A	V
Thru Cal Phase – 0	0	193.1	199.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 1	0	192.2	198.9	N/A	N/A	N/A	DEG
Thru Cal Phase – 2	0	189.8	196.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 3	0	189.3	196.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 4	0	185.0	191.7	N/A	N/A	N/A	DEG
Thru Cal Phase – 5	0	183.7	190.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 6	0	183.7	190.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 7	0	182.3	189.0	N/A	N/A	N/A	DEG

## Array Induction Tool – M Wellsite Calibration – Electronics Calibration Check – Auxiliary

Master: 8–Jun–2007 16:07 Before: 23–Aug–2007 3:24

Array Induction SPA Plus	991.0	991.3	991.3	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	0.1386	0.09976	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9170	0.9183	0.9183	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	0.0001416	0.0001176	N/A	N/A	N/A	V

## Array Induction Tool – M Wellsite Calibration – Test Loop Gain Correction

Master: 8–Jun–2007 16:07

Test Loop Gain Correctio – 0	0	1.015	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	1.017	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	1.015	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 3	0	1.015	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 4	0	0.9956	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 5	0	0.9900	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 6	0	0.9962	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 7	0	1.007	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 0	0	0.4586	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 1	0	0.5096	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 2	0	–0.05720	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 3	0	–0.007043	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 4	0	0.04567	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 5	0	–0.1352	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 6	0	0.1408	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 7	0	–0.1991	N/A	N/A	N/A	N/A	DEG

## Array Induction Tool – M Wellsite Calibration – Sonde Error Correction

Master: 8–Jun–2007 16:07

R Sonde Error Correction – 0	0	–60.20	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	152.9	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	119.2	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	51.98	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	25.94	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	11.99	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	9.370	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	–1.823	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	47.45	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	–0.8442	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	–24.32	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	1.438	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	10.78	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	–3.682	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	7.294	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	2.704	N/A	N/A	N/A	N/A	MM/M

## Array Induction Tool – M Wellsite Calibration – Mud Gain Correction

Master: 8–Jun–2007 16:07

Coarse – Mag, Real, Imag – 0	0	1.127	N/A	N/A	N/A	N/A	
Coarse – Mag, Real, Imag – 1	0	1.127	N/A	N/A	N/A	N/A	
Coarse – Mag, Real, Imag – 2	0	1.127	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 0	0	1.128	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 1	0	1.128	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 2	0	1.128	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool-DTS Wellsite Calibration – Stab Measurement Summary							
Before: 22-Aug-2007 19:37							
BS Window Ratio	0.7388	N/A	0.7417	N/A	N/A	N/A	
BS Window Sum	10540	N/A	10530	N/A	N/A	N/A	CPS
SS Window Ratio	0.4662	N/A	0.4690	N/A	N/A	N/A	
SS Window Sum	10110	N/A	10080	N/A	N/A	N/A	CPS
LS Window Ratio	0.2911	N/A	0.2876	N/A	N/A	N/A	
LS Window Sum	1161	N/A	1159	N/A	N/A	N/A	CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration – Photo-multiplier High Voltages Calibrations							
Before: 22-Aug-2007 19:37							
BS PM High Voltage (Command)	1591	N/A	1613	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1995	N/A	1996	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1489	N/A	1482	N/A	N/A	N/A	V
High resolution Integrated Logging Tool-DTS Wellsite Calibration – Crystal Quality Resolutions Calibration							
Before: 22-Aug-2007 19:37							
BS Crystal Resolution	11.41	N/A	11.30	N/A	N/A	N/A	%
SS Crystal Resolution	9.374	N/A	9.335	N/A	N/A	N/A	%
LS Crystal Resolution	9.391	N/A	9.684	N/A	N/A	N/A	%
High resolution Integrated Logging Tool-DTS Wellsite Calibration – MCFL Calibration							
Before: 22-Aug-2007 19:26							
Raw B0 Resistivity	3875	N/A	3862	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3871	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	4073	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool-DTS Wellsite Calibration – HILT Caliper Calibration							
Before: 22-Aug-2007 19:25							
HILT Caliper Zero Measurement	8.000	N/A	8.225	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	16.00	N/A	16.81	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool-DTS Wellsite Calibration – Detector Calibration							
Before: 22-Aug-2007 19:25							
Gamma Ray Background	30.00	N/A	27.30	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkg)	162.7	N/A	162.7	N/A	N/A	14.79	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool-DTS Wellsite Calibration – Zero Measurement							
Master: 3-Jul-2007 14:22 Before: 20-Aug-2007 14:55							
CNTC Background	27.33	27.33	25.62	N/A	N/A	4.100	CPS
CFTC Background	27.96	27.96	24.79	N/A	N/A	4.194	CPS
High resolution Integrated Logging Tool-DTS Wellsite Calibration – Ratio Measurement							
Master: 3-Jul-2007 14:22							
Thermal Near Corr. (Tank)	5800	5269	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2249	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.343	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool-DTS Wellsite Calibration – Accelerometer Calibration							
Before: 23-Aug-2007 3:14							
Z-Axis Acceleration	32.19	N/A	32.10	N/A	N/A	N/A	F/S2
High resolution Integrated Logging Tool-DTS Master Calibration – Inversion results							
Master: 11-Aug-2007 14:10							
Rho Aluminum	2.596	2.600	--	--	--	--	G/C3
Rho Magnesium	1.686	1.689	--	--	--	--	G/C3
Pe Aluminum	2.570	2.596	--	--	--	--	
Pe Magnesium	2.650	2.582	--	--	--	--	
High resolution Integrated Logging Tool-DTS Master Calibration – Deviation Summary							
Master: 11-Aug-2007 14:10							
BS Average Deviation	0	0.2978	--	--	--	--	%
BS Max Deviation	0	0.9425	--	--	--	--	%
SS Average Deviation	0	0.3399	--	--	--	--	%
SS Max Deviation	0	1.155	--	--	--	--	%
LS Average Deviation	0	0.7913	--	--	--	--	%
LS Max Deviation	0	1.771	--	--	--	--	%
The GLS-VJ source activity is acceptable.							
The HGNS Neutron Master Calibration was done with the following parameters :							
NCT-B Water Temperature	79.0	DEGF.					
Thermal Housing Size	3.382	IN.					
NSR-F serial number	5010						

# Array Induction Tool – M / Equipment Identification









Primary Equipment:  
Rm/SP Bottom Nose  
Array Induction Sonde

AMRM – A  
AMIS – A

208

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	0.6189		0.6100	193.1		197.0
	Before	0.6186			199.8		
1	Master	1.267		1.270	192.2		196.0
	Before	1.267			198.9		
2	Master	0.6300		0.6200	189.8		192.0
	Before	0.6300			196.5		
3	Master	0.7115		0.7000	189.3		191.0
	Before	0.7114			196.0		
4	Master	1.343		1.340	185.0		185.0
	Before	1.342			191.7		
5	Master	1.964		1.960	183.7		182.0
	Before	1.963			190.3		
6	Master	1.966		1.960	183.7		181.0
	Before	1.966			190.3		
7	Master	1.408		1.410	182.3		175.0
	Before	1.408			189.0		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 8-Jun-2007 16:07				Before: 23-Aug-2007 3:24			





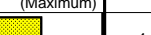

Array Induction Tool – M Wellsite Calibration							
Electronics Calibration Check – Auxiliary							
Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master			991.3	Master			0.1386
Before			991.3	Before			0.09976
941.0 (Minimum)			991.0 (Nominal)	1040 (Maximum)			
				-50.00 (Minimum)			0 (Nominal)
				50.00 (Maximum)			
Phase	Array Induction Temperature Plus V		Value	Phase	Array Induction Temperature Zero V		Value
Master			0.9183	Master			0.0001416
Before			0.9183	Before			0.0001176
0.8710 (Minimum)			0.9170 (Nominal)	0.9630 (Maximum)			
				-0.05000 (Minimum)			0 (Nominal)
				0.05000 (Maximum)			
Master: 8-Jun-2007 16:07				Before: 23-Aug-2007 3:24			

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	1.015	<div><div></div></div>			0.4586	<div><div></div></div>	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.017	<div><div></div></div>			0.5096	<div><div></div></div>	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
2	1.015	<div><div></div></div>			-0.05720	<div><div></div></div>	



	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.015			-0.007043		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	0.9956			0.04567		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	0.9900			-0.1352		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	0.9962			0.1408		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.007			-0.1991		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Master: 8-Jun-2007 16:07						

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	-60.20				47.45		
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal) 2250 (Maximum)
1	152.9				-0.8442		
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal) 625.0 (Maximum)
2	119.2				-24.32		
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal) 350.0 (Maximum)
3	51.98				1.438		
		39.00 (Minimum)	64.00 (Nominal)	89.30 (Maximum)		-250.0 (Minimum)	0 (Nominal) 250.0 (Maximum)
4	25.94				10.78		
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal) 63.00 (Maximum)
5	11.99				-3.682		
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal) 50.00 (Maximum)
6	9.370				7.294		
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal) 30.00 (Maximum)
7	-1.823				2.704		
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal) 30.00 (Maximum)
Master: 8-Jun-2007 16:07							

Array Induction Tool – M Wellsite Calibration							
Mud Gain Correction							
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag	
0	1.127				1.128		
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	1.127				1.128		
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	1.127				1.128		
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 8-Jun-2007 16:07							



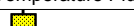
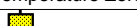
Master: 8-Jun-2007 16:07

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	0.6189	<div><div></div></div>	0.6100	193.1	<div><div></div></div>	197.0



1	Master	1.267		1.270	192.2		196.0
2	Master	0.6300		0.6200	189.8		192.0
3	Master	0.7115		0.7000	189.3		191.0
4	Master	1.343		1.340	185.0		185.0
5	Master	1.964		1.960	183.7		182.0
6	Master	1.966		1.960	183.7		181.0
7	Master	1.408		1.410	182.3		175.0
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)

Master: 8-Jun-2007 16:07

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				991.3	Master				0.1386
	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				0.9183	Master				0.0001416
	0.8710 (Minimum)	0.9170 (Nominal)	0.9630 (Maximum)			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)	
Master: 8-Jun-2007 16:07									

Master: 8-Jun-2007 16:07

Array Induction Tool – M Master Calibration									
Test Loop Gain Correction									
Idx	Value	Test Loop Gain	Correction Magnitude	V	Value	Test Loop Gain	Correction Phase	DEG	
0	1.015				0.4586				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
1	1.017				0.5096				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
2	1.015				-0.05720				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
3	1.015				-0.007043				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
4	0.9956				0.04567				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
5	0.9900				-0.1352				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
6	0.9962				0.1408				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
7	1.007				-0.1991				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	

Master: 8-Jun-2007 16:07

Master: 8-Jun-2007 16:07

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	-60.20				47.45			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	152.9				-0.8442			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	119.2				-24.32			

		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	51.98					1.438		
		39.00 (Minimum)	64.00 (Nominal)	89.30 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	25.94					10.78		
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	11.99					-3.682		
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	9.370					7.294		
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-1.823					2.704		
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

Master: 8-Jun-2007 16:07

Array Induction Tool – M Master Calibration								
Mud Gain Correction								
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag		
0	1.127	<div><div></div></div>			1.128	<div><div></div></div>		
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	1.127	<div><div></div></div>			1.128	<div><div></div></div>		
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	1.127	<div><div></div></div>			1.128	<div><div></div></div>		
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

Master: 8-Jun-2007 16:07




High resolution Integrated Logging Tool–DTS / Equipment Identification			
Primary Equipment:			
HILT high–Resolution Mechanical Sonde	HRMS – H	2346	
HILT Rxo Gamma–ray Device	HRGD – H	1865	
HILT Micro Cylindrically Focused Log Dev	MCFL – H		
GR Logging Source	GLS – VJ	1878	
HILT High Res. Control Cartridge	HRCC – H	1902	
HILT Gamma–Ray Neutron Sonde–DTS	HGNS – H	4779	
HGNS Gamma–Ray Device	HGR –		
HGNS Neutron Detector with Alpha Source	HCNT – H		
Auxiliary Equipment:			
Neutron Calibration Tank	NCT – B		
Gamma Source Radioactive	GSR – U/Y	632501	
HGNS Housing	HGNH –	3826	



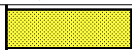
High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Stab Measurement Summary									
Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value
Before				0.7417	Before				0.4690
	0.7019 (Minimum)	0.7388 (Nominal)	0.7757 (Maximum)			0.4429 (Minimum)	0.4662 (Nominal)	0.4895 (Maximum)	
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value
Before				10530	Before				10080
	10010 (Minimum)	10540 (Nominal)	11060 (Maximum)			9607 (Minimum)	10110 (Nominal)	10620 (Maximum)	
Phase	LS Window Ratio			Value	Phase	LS Window Sum CPS			Value
Before				0.2876	Before				1159
	0.2765 (Minimum)	0.2911 (Nominal)	0.3056 (Maximum)			1103 (Minimum)	1161 (Nominal)	1219 (Maximum)	



Before: 22-Aug-2007 19:37




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			1613	Before			1996
				Before			1482





1491 (Minimum)	1591 (Nominal)	1691 (Maximum)	1895 (Minimum)	1995 (Nominal)	2095 (Maximum)	1389 (Minimum)	1489 (Nominal)	1589 (Maximum)
Before: 22-Aug-2007 19:37								

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			11.30	Before			9.335	Before			9.684
	10.41 (Minimum)	11.41 (Nominal)	12.41 (Maximum)		8.374 (Minimum)	9.374 (Nominal)	10.37 (Maximum)		8.391 (Minimum)	9.391 (Nominal)	10.39 (Maximum)
Before: 22-Aug-2007 19:37											


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				3862	Before				3871	Before				4073
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			
Before: 22-Aug-2007 19:26														



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			8.225	Before			16.81
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		12.00 (Minimum)	16.00 (Nominal)	20.00 (Maximum)
Before: 22-Aug-2007 19:25							





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				27.30	Before				162.7	Before				165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		147.9 (Minimum)	162.7 (Nominal)	177.5 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)			
Before: 22–Aug–2007 19:25														

High resolution Integrated Logging Tool–DTS Wellsite Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				27.33	Master				27.96
Before				25.62	Before				24.79
5.000 (Minimum)27.33 (Nominal)40.00 (Maximum)					5.000 (Minimum)27.96 (Nominal)40.00 (Maximum)				
Master: 3-Jul-2007 14:22					Before: 20-Aug-2007 14:55				



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	<div><div></div></div>			5269	Master	<div><div></div></div>			2249	Master	<div><div></div></div>			2.343
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)			1900 (Minimum)	2400 (Nominal)	2900 (Maximum)			2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)	
Master: 3-Jul-2007 14:22														

High resolution Integrated Logging Tool-DTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z-Axis Acceleration F/S2	Value	
Before		32.10	
	31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)
Before: 23-Aug-2007 3:14			

High resolution Integrated Logging Tool—DTS Master Calibration					
Inversion results					
Phase	Rho Aluminum G/C3	Value	Phase	Rho Magnesium G/C3	Value
					

Master		2.600	Master		1.689		
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		2.596	Master		2.582		
2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)	2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)		
Master: 11–Aug–2007 14:10							

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	<div><div></div></div>			0.2978	Master	<div><div></div></div>			0.3399	Master	<div><div></div></div>			0.7913
–0.6000      0      0.6000 (Minimum)      (Nominal)      (Maximum)					–1.000      0      1.000 (Minimum)      (Nominal)      (Maximum)					–1.500      0      1.500 (Minimum)      (Nominal)      (Maximum)				
Phase	BS Max Deviation %			Value	Phase	SS Max Deviation %			Value	Phase	LS Max Deviation %			Value
Master	<div><div></div></div>			0.9425	Master	<div><div></div></div>			1.155	Master	<div><div></div></div>			1.771
–1.600      0      1.600 (Minimum)      (Nominal)      (Maximum)					–2.500      0      2.500 (Minimum)      (Nominal)      (Maximum)					–3.500      0      3.500 (Minimum)      (Nominal)      (Maximum)				
Master: 11–Aug–2007 14:10														

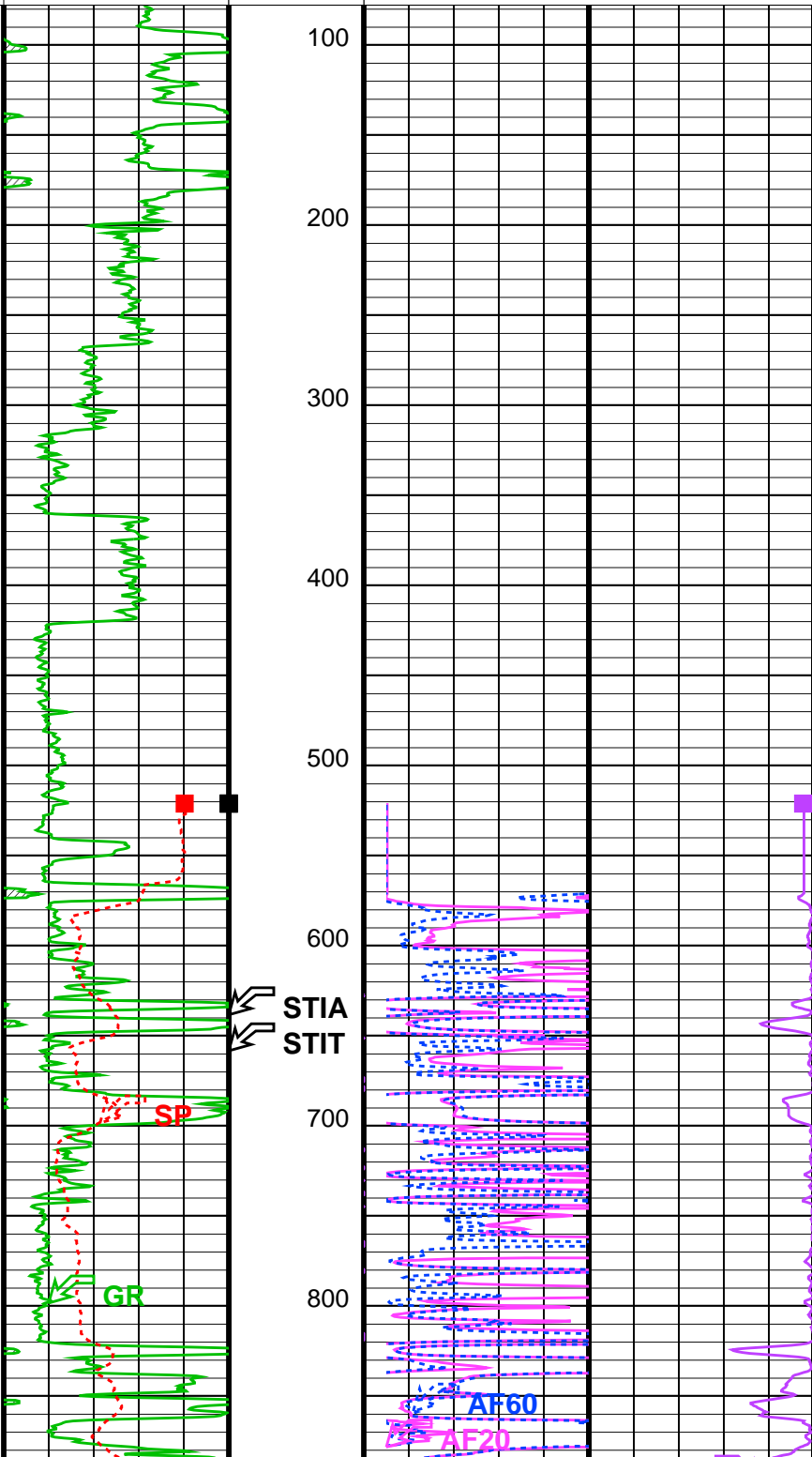
High resolution Integrated Logging Tool–DTS Master Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				27.33	Master				27.96
	5.000 (Minimum)	27.33 (Nominal)	40.00 (Maximum)			5.000 (Minimum)	27.96 (Nominal)	40.00 (Maximum)	
Master: 3–Jul–2007 14:22									

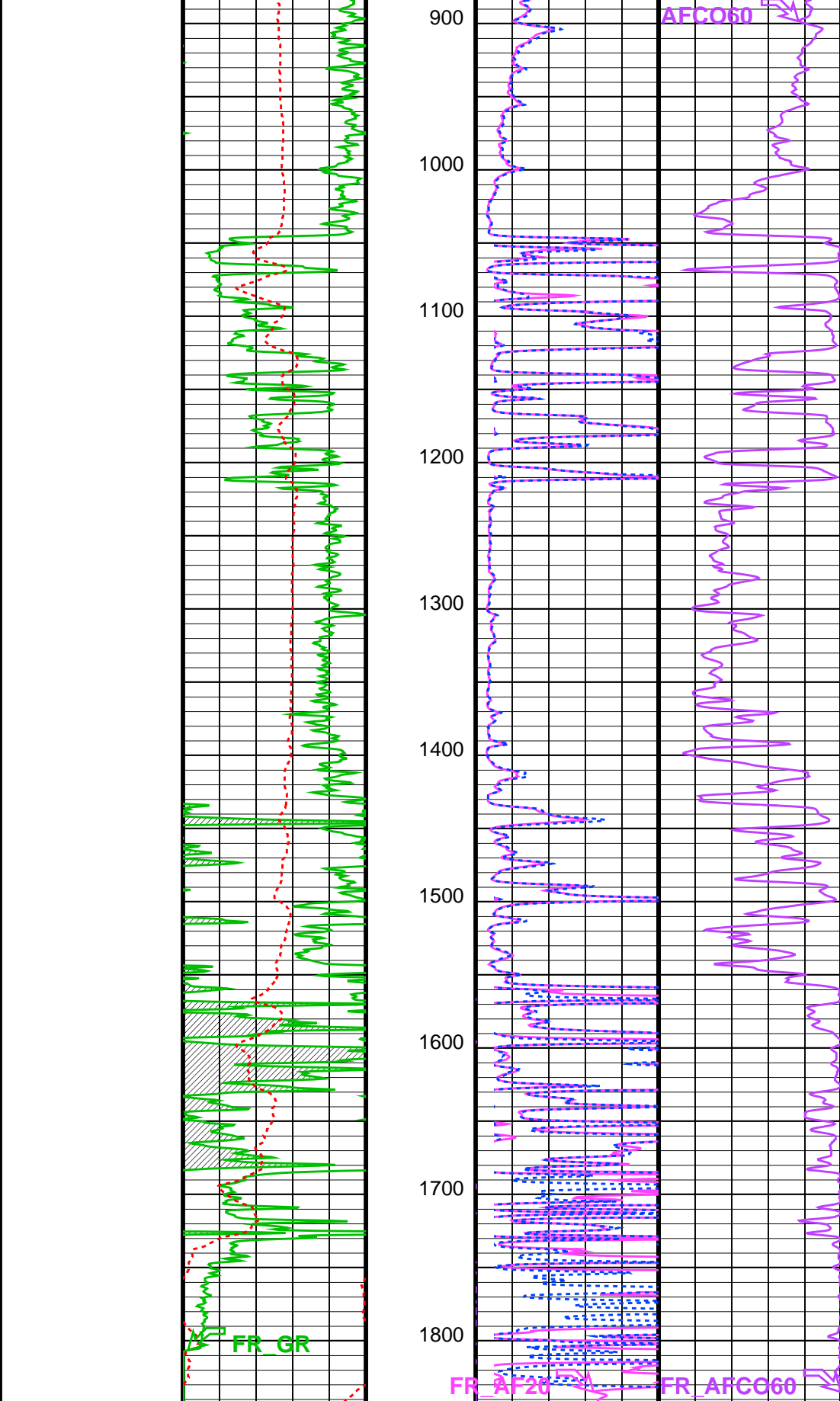
High resolution Integrated Logging Tool–DTS Master Calibration														
Tank Measurement														
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value	Phase	CNTC/CFTC (Tank)			Value
Master				5269	Master				2249	Master				2.343
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)			2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)		
Master: 3–Jul–2007 14:22														

DTS Telemetry Tool / Equipment Identification		
Primary Equipment:		
DTC–H Auxiliary Cartridge	DTCH – A	
DTC–H Telemetry Cartridge	DTCH – A	8485
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH – KC	9562

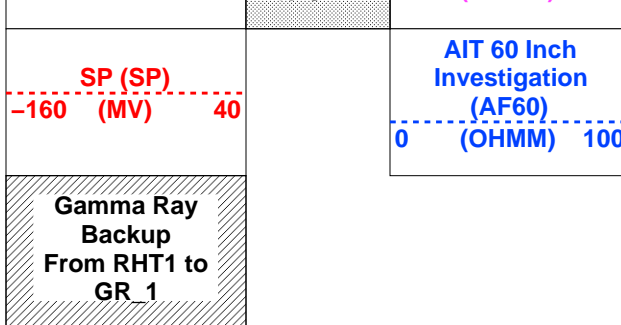
Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_017LUP	FN:15	PRODUCER	23-Aug-2007 04:56	1842.0 FT	77.5 FT
OP System Version: 15C0-309						
MCM						
AIT-M	SRPC-3402-Q3_2007		HILTH-FTB	SRPC-3402-Q3_2007		
DTC-H	15C0-309					

Gamma Ray Backup From RHT1 to GR_1		
SP (SP) -160 (MV) 40		AIT 60 Inch Investigation (AF60) 0 (OHMM) 100
Gamma Ray (GR) 150 (GAPI) 300	Cable Drag From STIA to STIT	AIT 20 Inch Investigation (AF20) 0 (OHMM) 100
Gamma Ray (GR) 0 (GAPI) 150	Stuck Stretch (STIT) 0 (F) 50	AIT 60 Inch Investigation Conductivity (AFCO60) 400 (MM/M) 0





<div>Gamma Ray (GR) 0 (GAPI) 150</div>		<div>Stuck Stretch (STIT) 0 (F) 50</div>	<div>AIT 60 Inch Investigation Conductivity (AFCO60) 400 (MM/M) 0</div>	
<div>Gamma Ray (GR) 150 (GAPI) 300</div>		<div>Cable Drag From STIA to STIT</div>	<div>AIT 20 Inch Investigation (AF20) 0 (OHMM) 100</div>	



## 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	Yes
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
ACSED	Array Induction Casing Shoe Estimated Depth	-50000 FT
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	0.25 IN
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)	88 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	AITM_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM
SHT	Surface Hole Temperature	85 DEGF
SPNV	SP Next Value	-100 MV
HILTH-FTB: High resolution Integrated Logging Tool-DTS		
BHT	Bottom Hole Temperature (used in calculations)	88 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	AITM_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM
SHT	Surface Hole Temperature	85 DEGF
HOLEV: Integrated Hole/Cement Volume		
BHT	Bottom Hole Temperature (used in calculations)	88 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	AITM_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM
SHT	Surface Hole Temperature	85 DEGF
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL
STKT	STI Stuck Threshold	2.5 FT
TDD	Total Depth – Driller	1851.00 FT
TDL	Total Depth – Logger	1843.00 FT
System and Miscellaneous		
BS	Bit Size	8.750 IN
DFD	Drilling Fluid Density	9.00 LB/G
DORL	Depth Offset for Repeat Analysis	0.0 FT
FLEV	Fluid Level	30.00 FT
MST	Mud Sample Temperature	85.00 DEGF
TD	Total Depth	1843 FT

Format: RILEY Vertical Scale: 1" per 100'

Graphics File Created: 23-Aug-2007 04:56

OP System Version: 15C0-309

MCM

AIT-M SPRC-3402-Q3 2007

HILTH-FTB

SPRC-3402-Q3 2007

Output DLIS Files

DEFAULTAIT\_TLD\_MCFL\_CNL\_017LUPFN:15PRODUCER23-Aug-2007 04:56

Company:

STORM CAT ENERGY (USA) OPERATING CORP

Schlumberger

Well:

KAMALMAZ 1-13H

Field:

B-43

County:

VAN BUREN

State:

ARKANSAS

\*\*PLATFORM EXPRESS\*\*

ARRAY INDUCTION / GAMMA RAY

LITHO-DENSITY / COMPENSATED NEUTRON