

Schlumberger

Company: McElvain Oil & Gas, Inc

Well: Hemmert 24-9 #1

Field: Mong

County: Trego

State: Kansas

Schlumberger

Company: McElvain Oil & Gas, Inc

Well: Hemmert 24-9 #1

Field: Mong

County: Trego

State: Kansas

Schlumberger

Company: McElvain Oil & Gas, Inc

Well: Hemmert 24-9 #1

Field: Mong

County: Trego

State: Kansas

Schlumberger

Company: McElvain Oil & Gas, Inc

Well: Hemmert 24-9 #1

Field: Mong

County: Trego

State: Kansas

Schlumberger

Company: McElvain Oil & Gas, Inc

Well: Hemmert 24-9 #1

Field: Mong

County: Trego

State: Kansas

Schlumberger

Company: McElvain Oil & Gas, Inc

Well: Hemmert 24-9 #1

Field: Mong

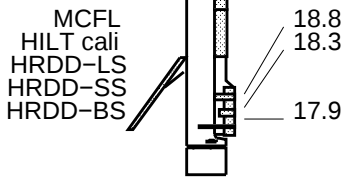
County: Trego

State: Kansas

[illegible]

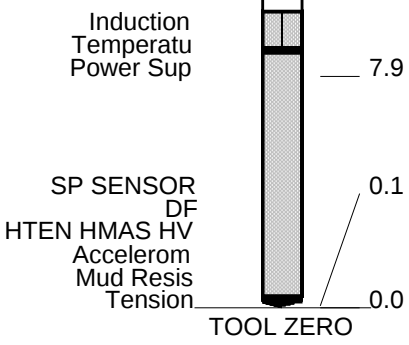
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth		@	
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density	Viscosity		
Fluid Loss	PH		
Source Of Sample			
RM @ Measured Temperature		@	
RMF @ Measured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

Matrix: Limestone 2.71	
------------------------	--



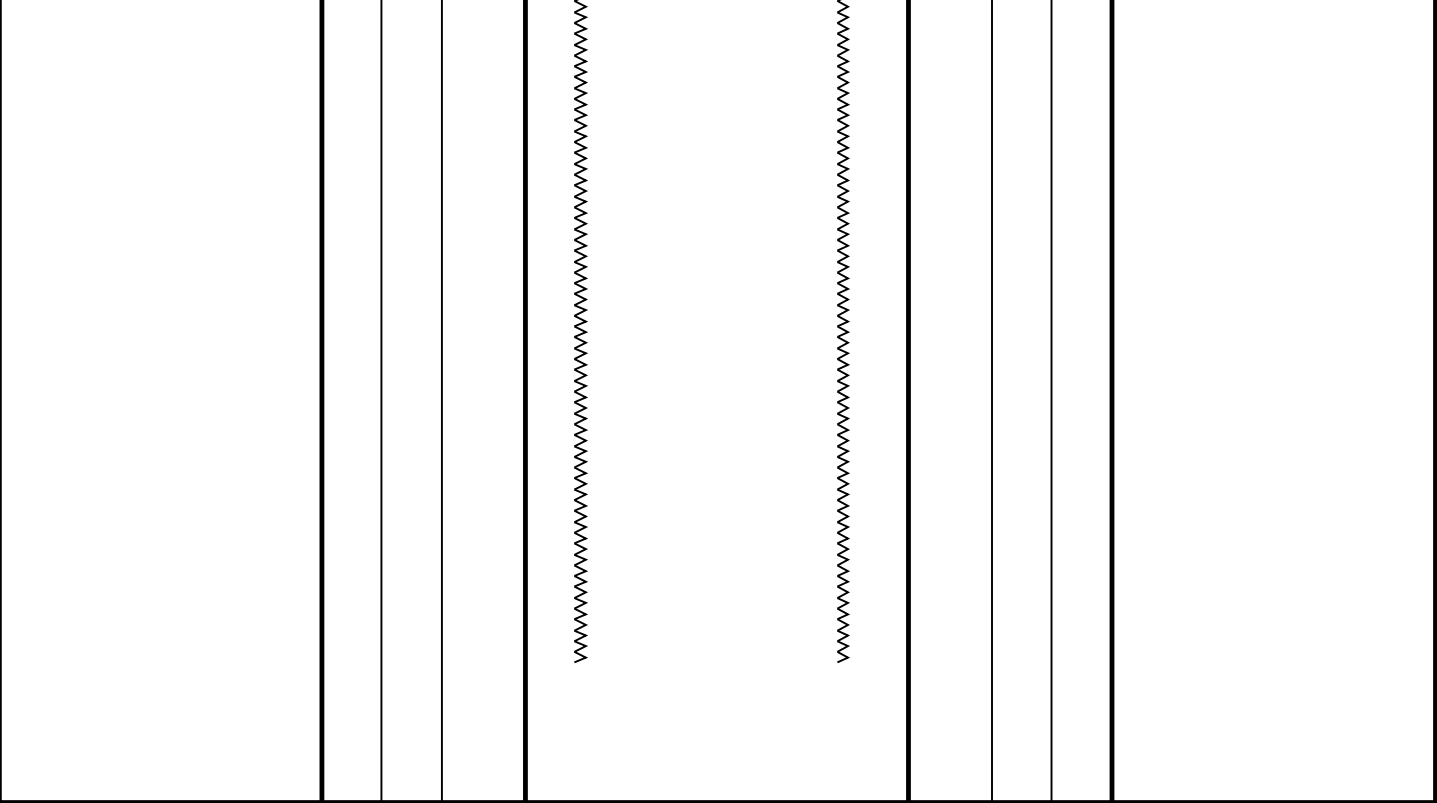
HAIT-H
AHIS-BA 216
AHRM-A

16.0



MAXIMUM STRING DIAMETER 4.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Production String	(in)		(ft)	Well Schematic	(ft)		(in)	Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	8.625	8.097	Casing String
					267.0	8.625	8.097	Casing Shoe
					267.0	7.875		Borehole Segment



All Depths are Drillers



MAIN POROSITY LOG 5" = 100'

MAXIS Field Log

Input DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_007LUP	FN:6	PRODUCER	10-Jan-2011 22:32	4170.0 FT	215.5 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 330.19 ft3
Cement Volume = 234.72 ft3 (assuming 4.50 in casing O.D.)
Computed from 4159.5 ft to 3295.5 ft

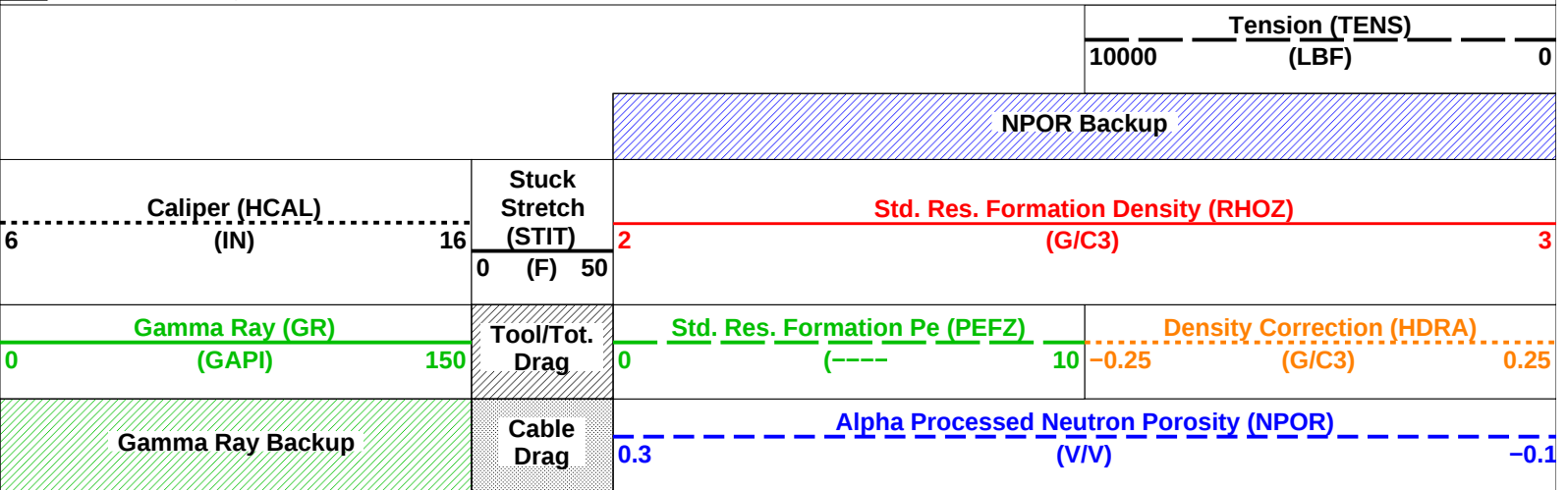
OP System Version: 18C0-147

HAIT	SRPC-4042-Q3_2010_OP18	HILTD	SRPC-4042-Q3_2010_OP18
HNGC-B	HFE-4001-OP18-NUCL	HNGS-BA	HFE-4001-OP18-NUCL
DTCH	18C0-147		

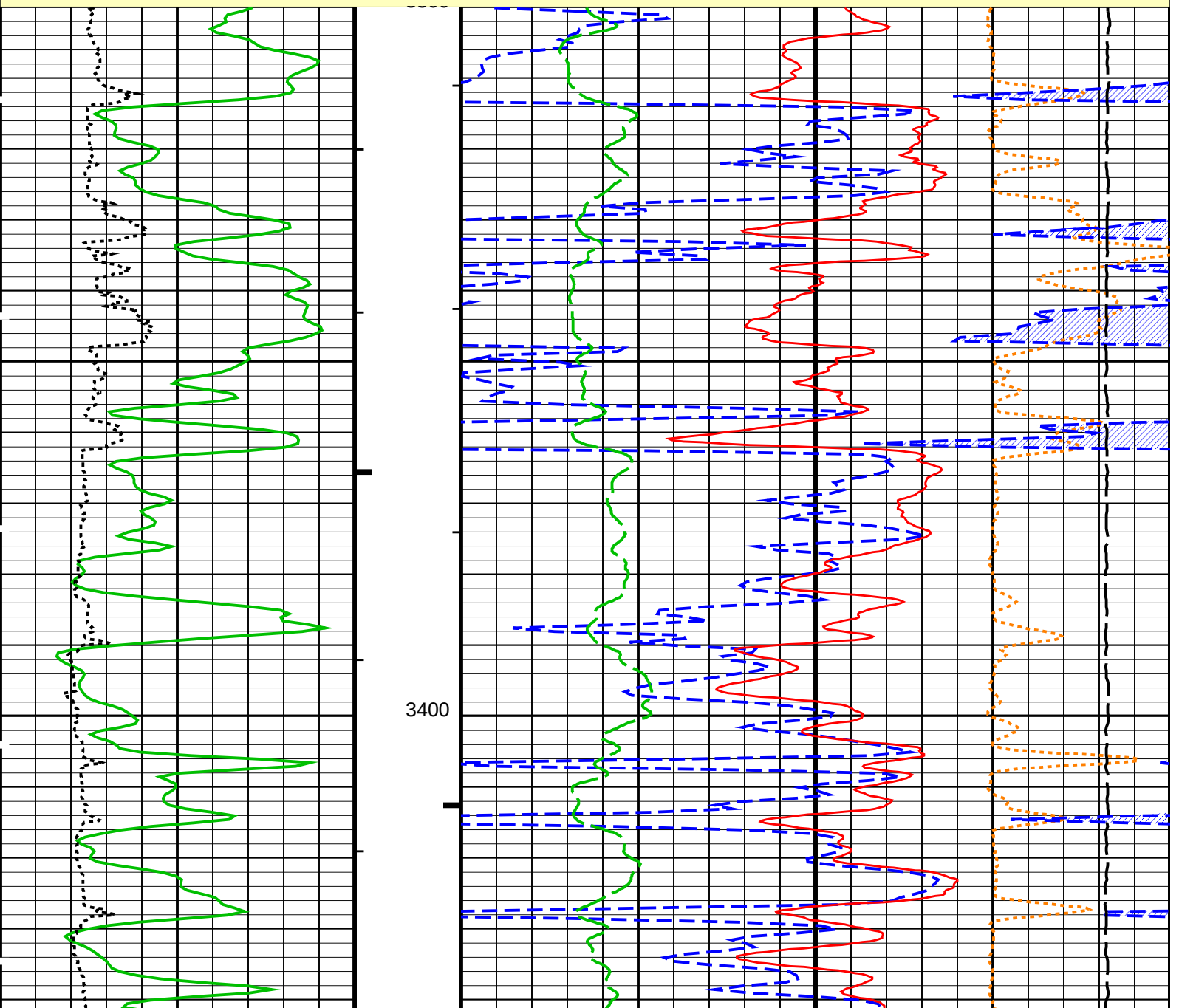
PIP SUMMARY

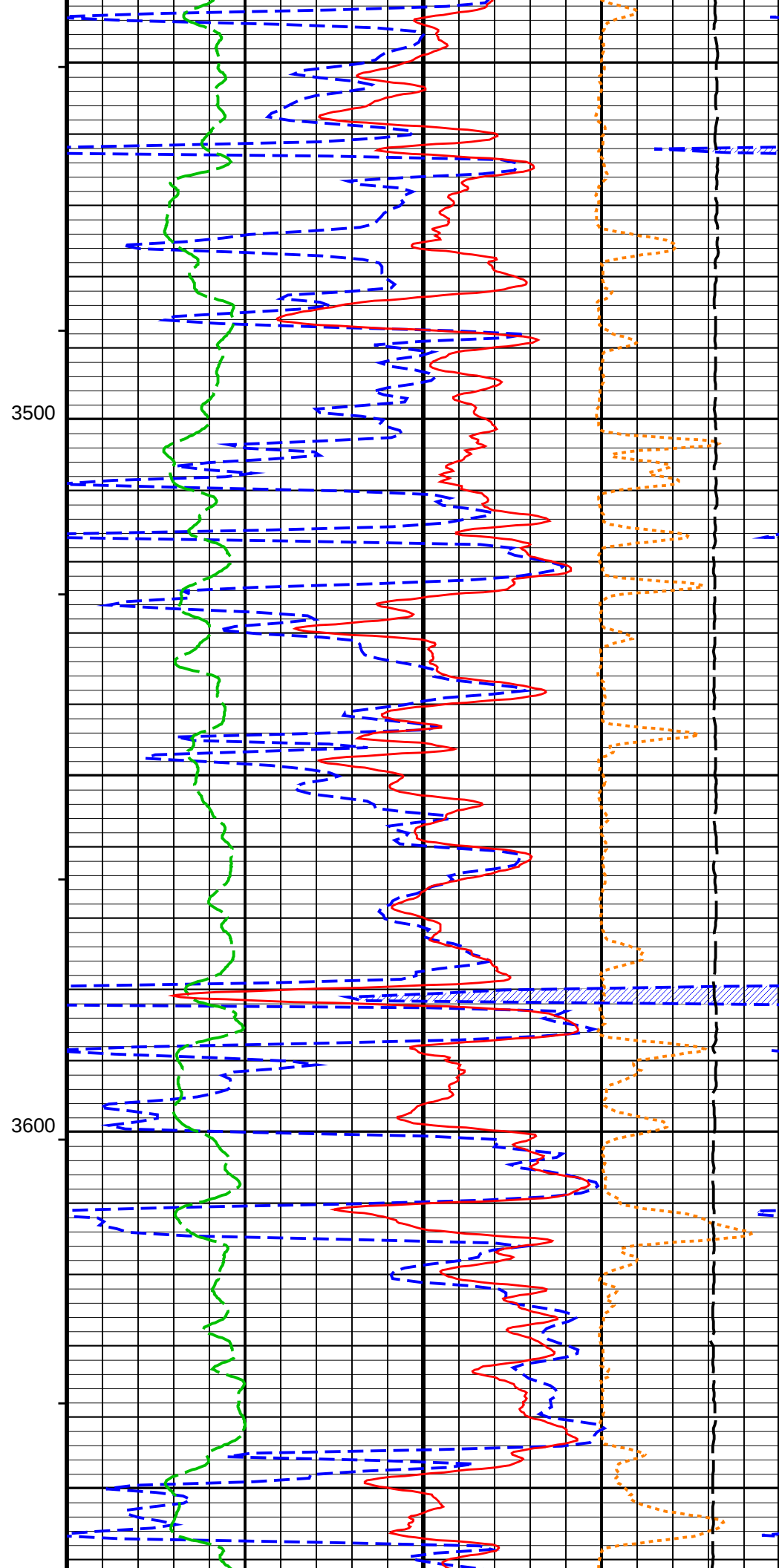
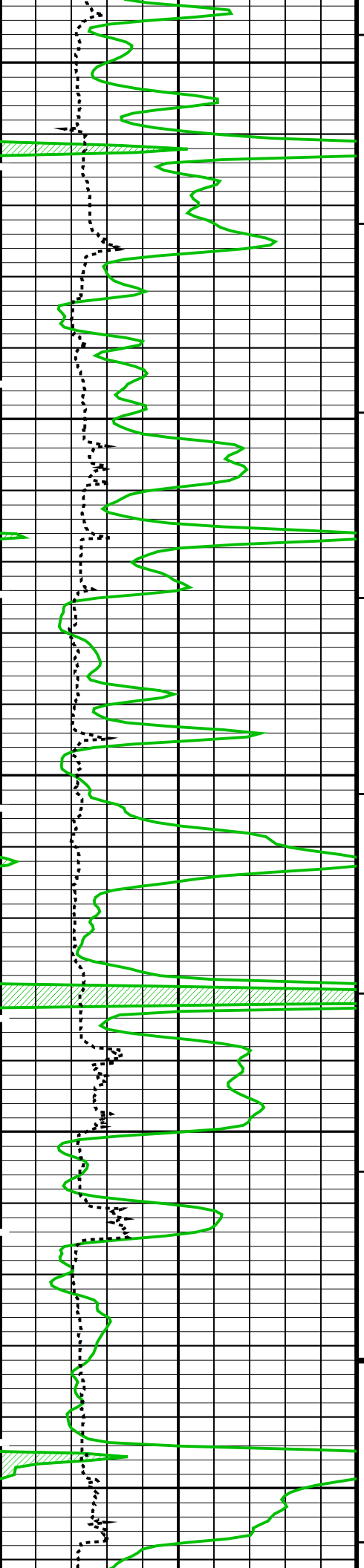
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
- └ Integrated Cement Volume Minor Pip Every 10 F3
- └ Integrated Cement Volume Major Pip Every 100 F3

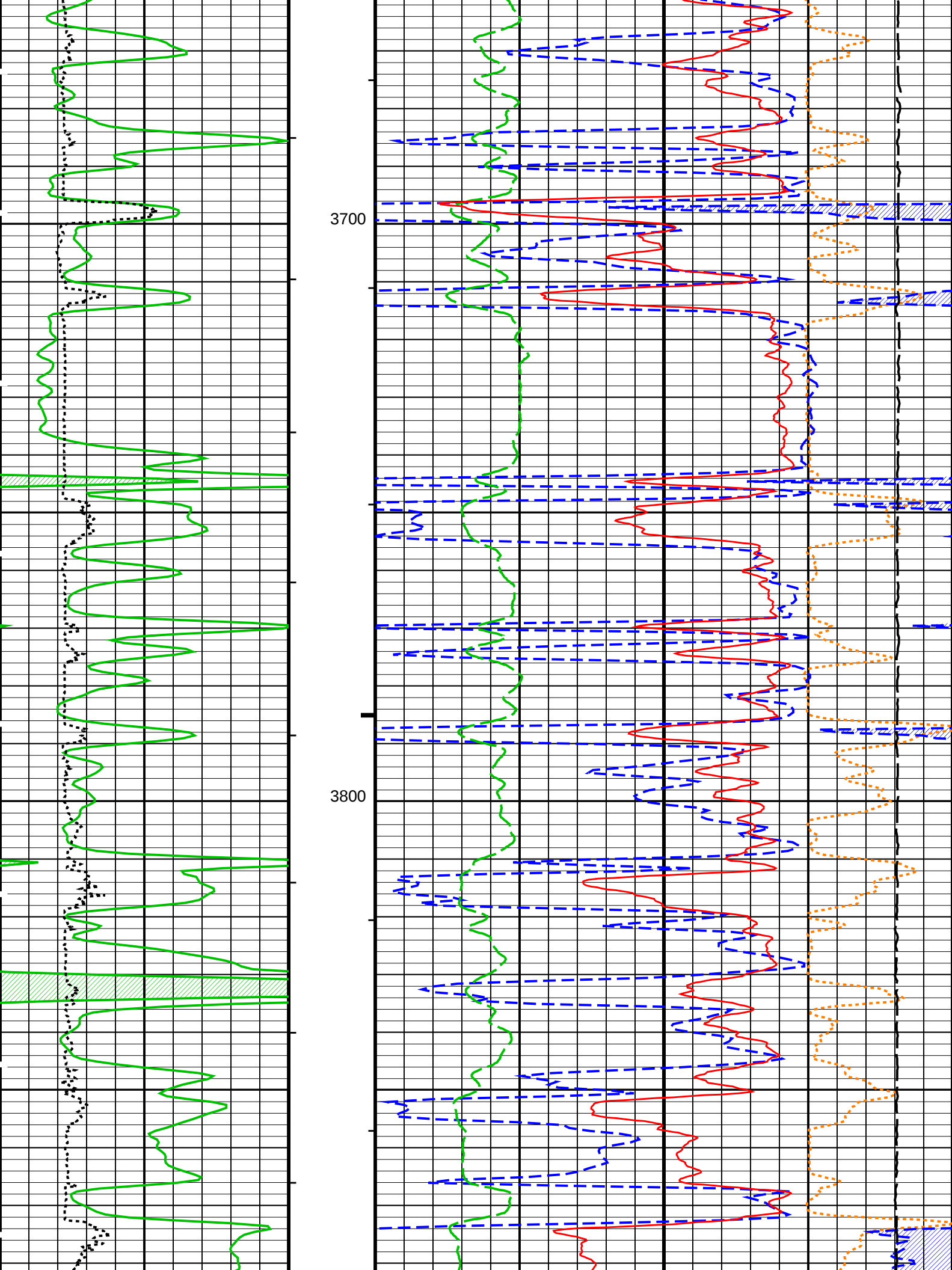
Time Mark Every 60 S

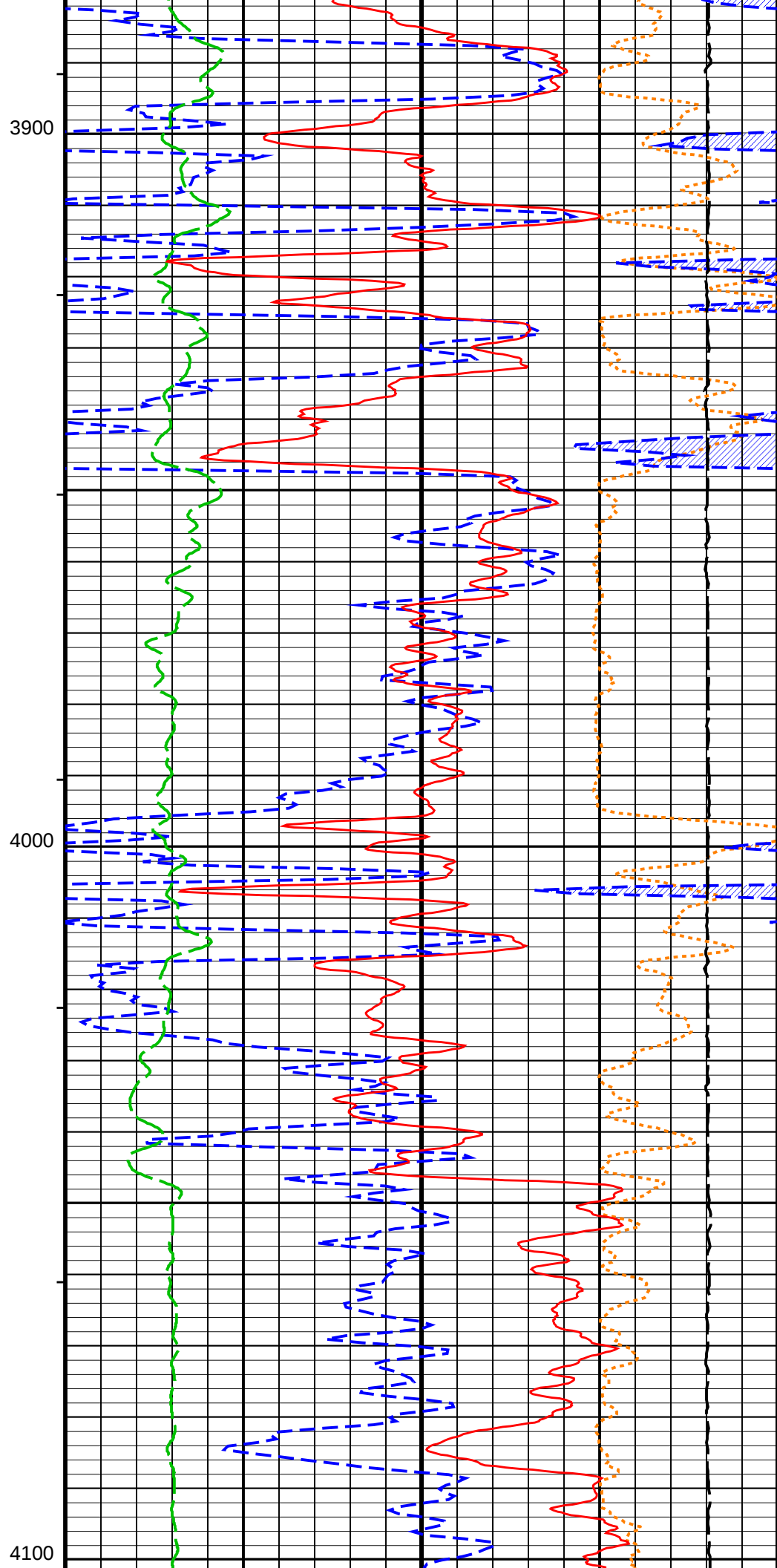
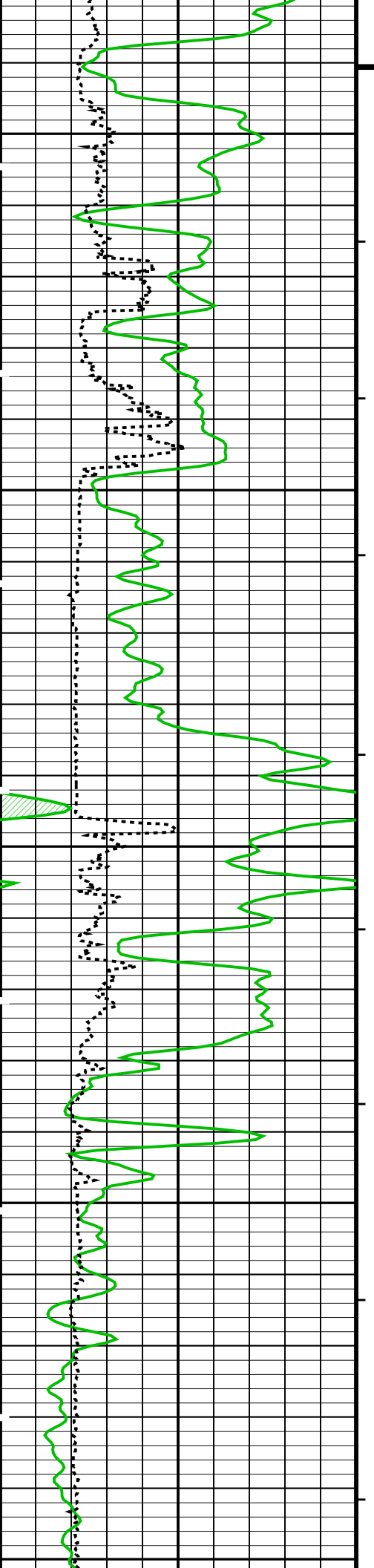


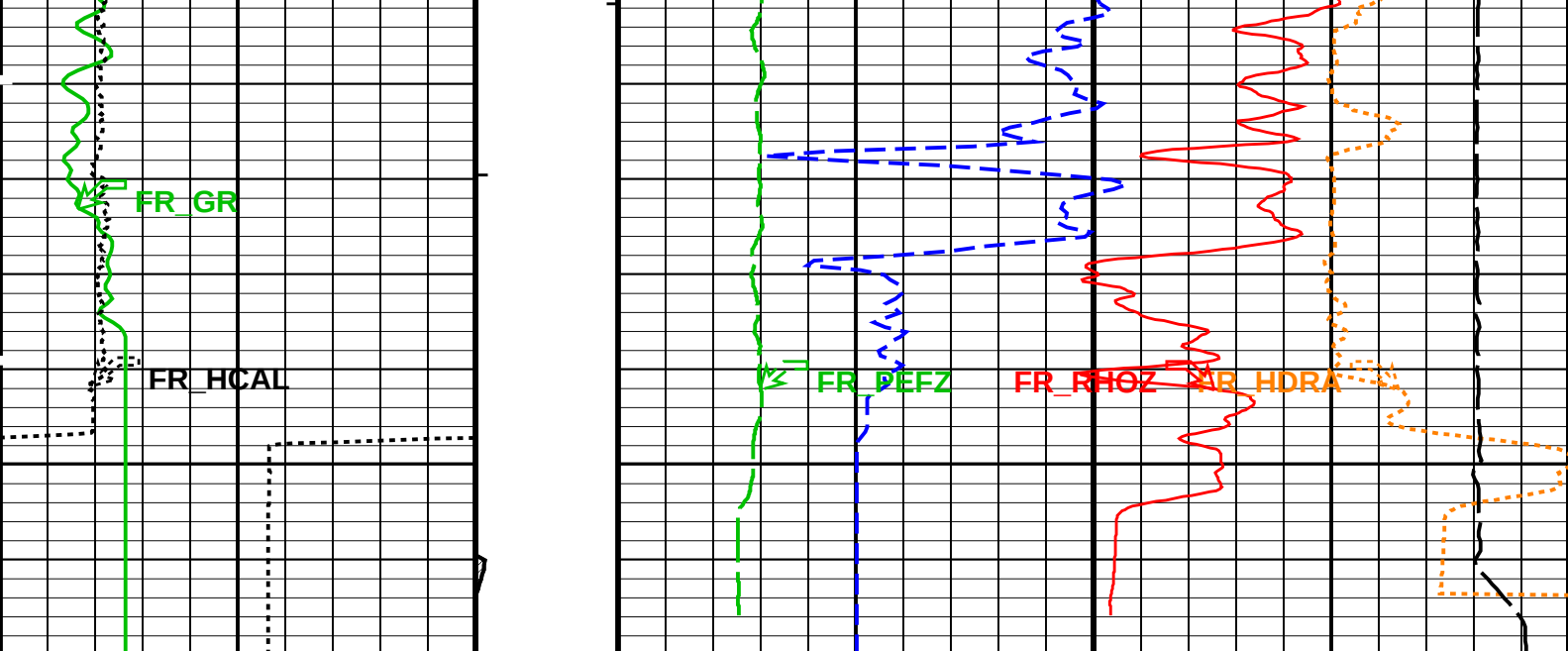
MAIN PASS: *** PLATFORM EXPRESS - NUCLEAR POROSITY ***











MAIN PASS: *** PLATFORM EXPRESS - NUCLEAR POROSITY ***

Gamma Ray Backup	Cable Drag	Alpha Processed Neutron Porosity (NPOR)	
		0.3	-0.1
Gamma Ray (GR)	Tool/Tot. Drag	Std. Res. Formation Pe (PEFZ)	Density Correction (HDRA)
(GAPI)		(---	(G/C3)
0		10	-0.25 0.25
Caliper (HCAL)	Stuck Stretch (STIT)	Std. Res. Formation Density (RHOZ)	
(IN)		(G/C3)	
6	0 (F) 50	2	3
		NPOR Backup	
		Tension (TENS)	
		10000	0
		(LBF)	

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	
HAIT-H: Array Induction Tool – H			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
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	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
MCCO	Mud Cake Correction Option	NO	

MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HIRES	
NSAR	HRDD Depth Sampling Rate	1.000	in
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68.000	degF
SOCN	Standoff Distance	0.125	in
SOCO	Standoff Correction Option	YES	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
STI: Stuck Tool Indicator			
STKT	STI Stuck Threshold	2.500	ft
TDD	Total Depth - Driller	4160.0	ft
TDL	Total Depth - Logger	4160.0	ft
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
PERT: Preliminary Evaluation - Real Time			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
System and Miscellaneous			
BS	Bit Size	7.875	in
BSAL	Borehole Salinity	3700.0	ppm
CSIZ	Current Casing Size	8.625	in
CWEI	Casing Weight	24.000	lbm/ft
DFD	Drilling Fluid Density	9.400	lbm/gal
FSAL	Formation Salinity		
MST	Mud Sample Temperature	77.105	degF
RMFS	Resistivity of Mud Filtrate Sample	0.605	ohm.m

Format: PORO Vertical Scale: 5" per 100' Graphics File Created: 11-Jan-2011 01:12

OP System Version: 18C0-147

HAIT	SRPC-4042-Q3_2010_OP18	HILTD	SRPC-4042-Q3_2010_OP18
HNGC-B	HFE-4001-OP18-NUCL	HNGS-BA	HFE-4001-OP18-NUCL
DTCH	18C0-147		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_007LUP	FN:6	PRODUCER	10-Jan-2011 22:32	4170.0 FT	215.5 FT
---------	-------------------------	------	----------	-------------------	-----------	----------

Input DLIS Files

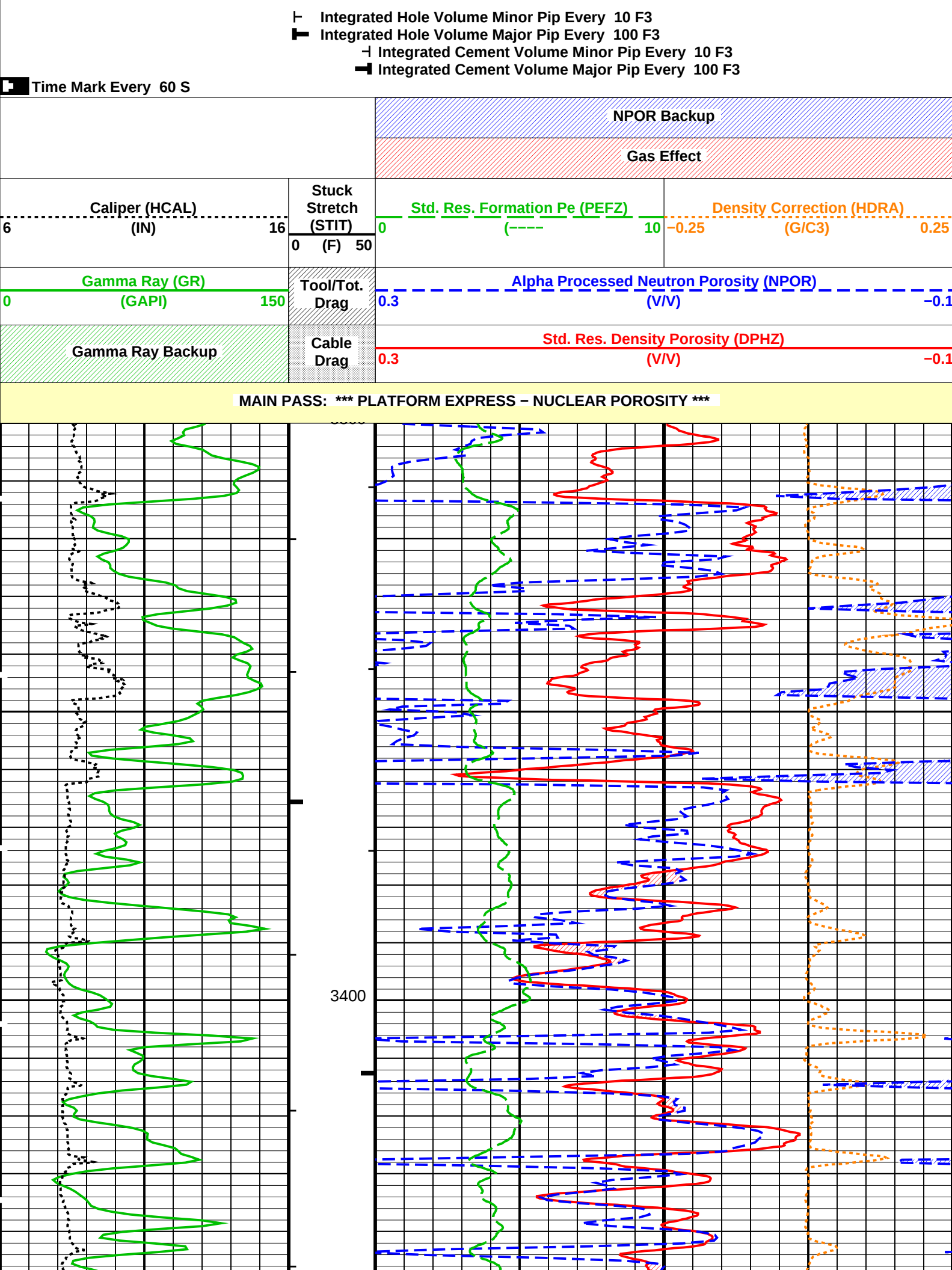
DEFAULT	AIT_TLD_MCFL_CNL_007LUP	FN:6	PRODUCER	10-Jan-2011 22:32	4170.0 FT	215.5 FT
---------	-------------------------	------	----------	-------------------	-----------	----------

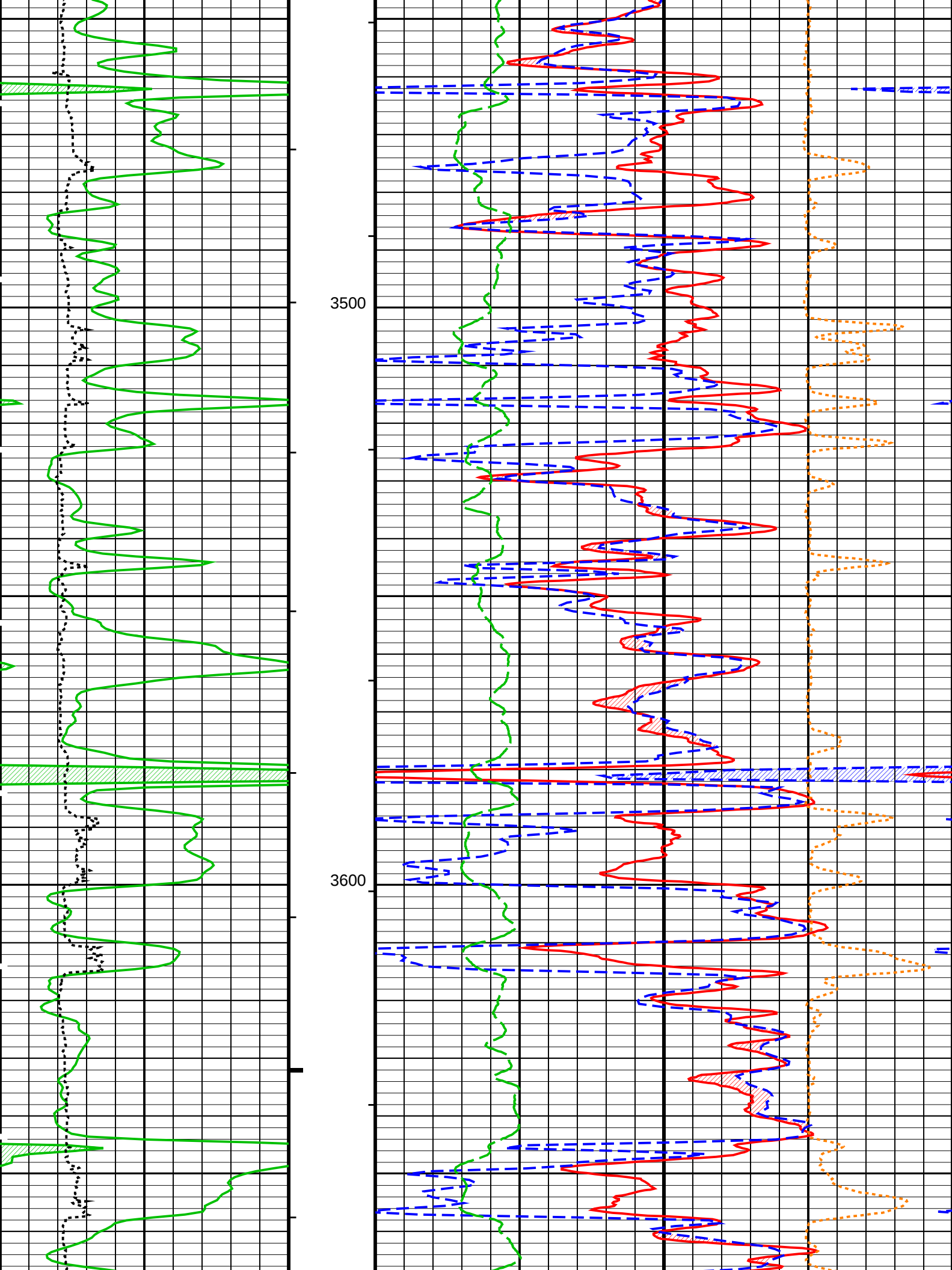
Integrated Hole/Cement Volume Summary

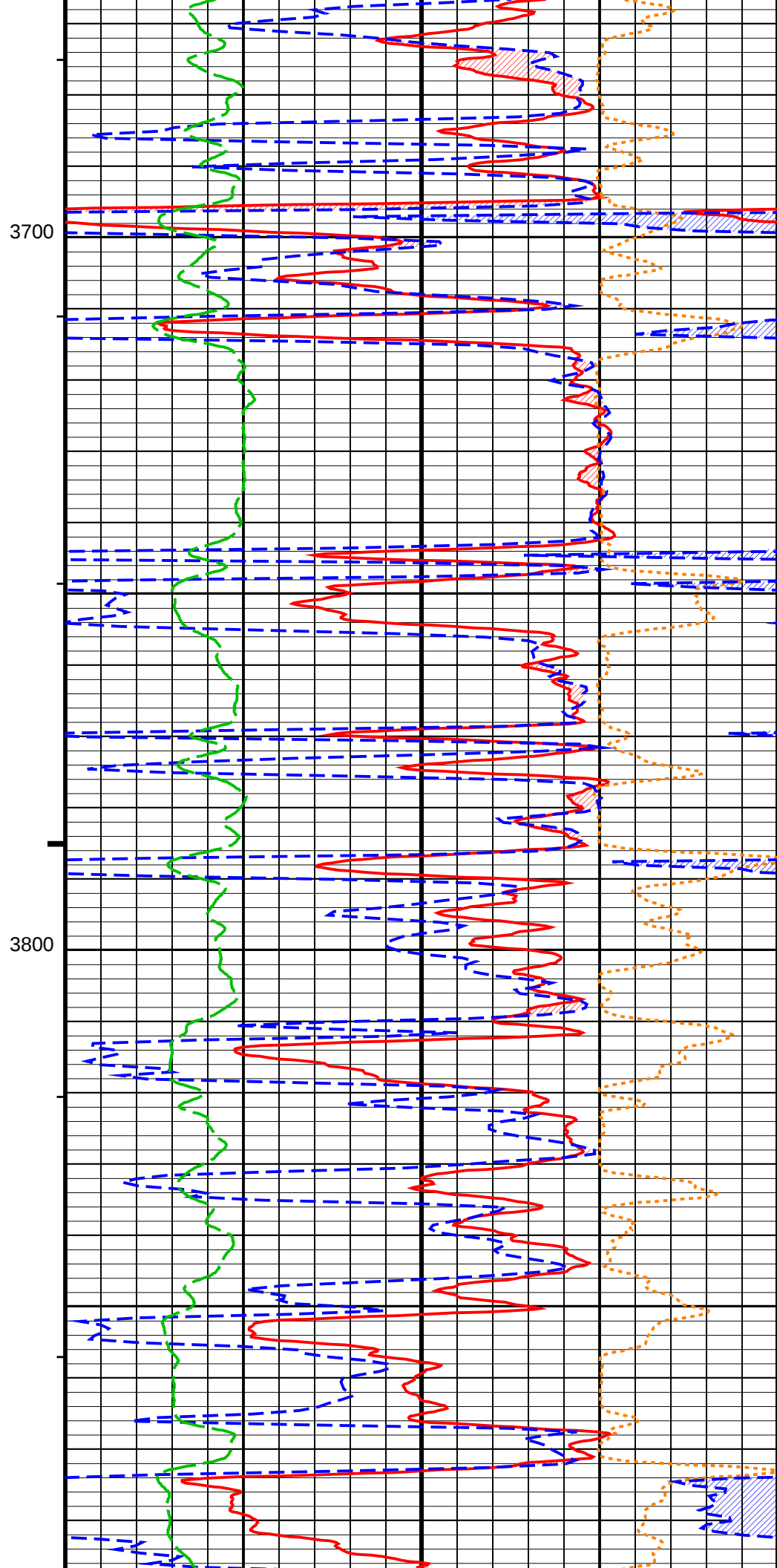
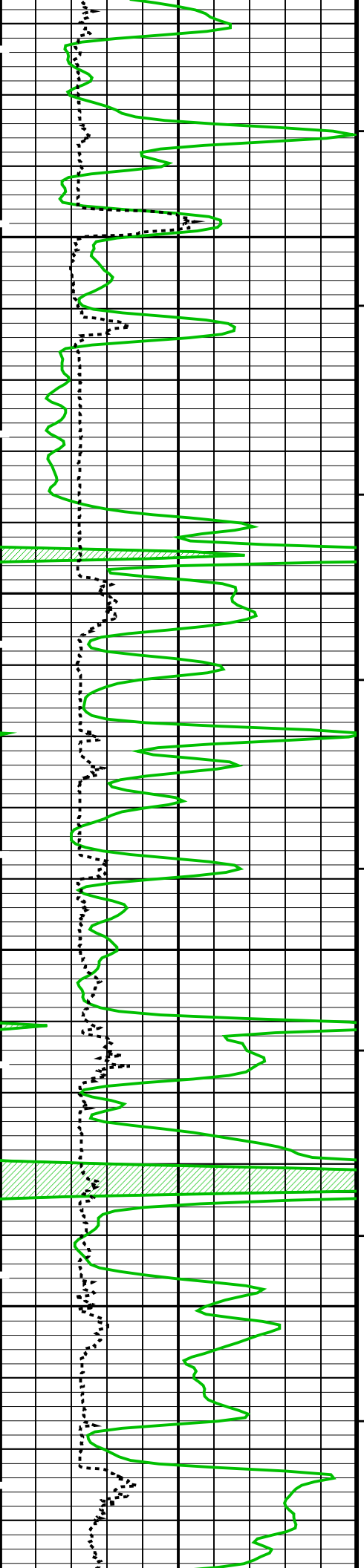
Hole Volume = 330.19 ft3
Cement Volume = 234.72 ft3 (assuming 4.50 in casing O.D.)
Computed from 4159.5 ft to 3295.5 ft

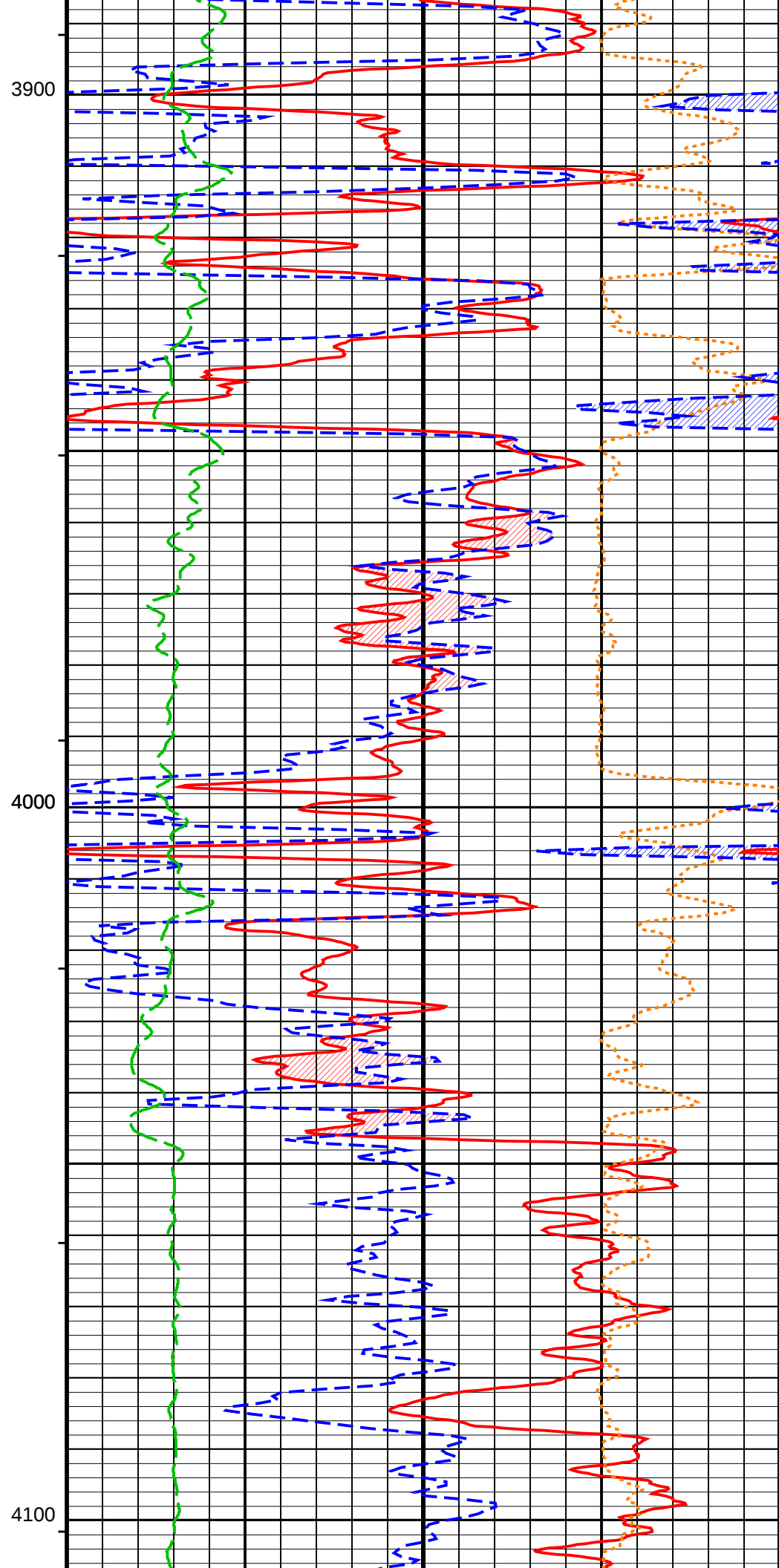
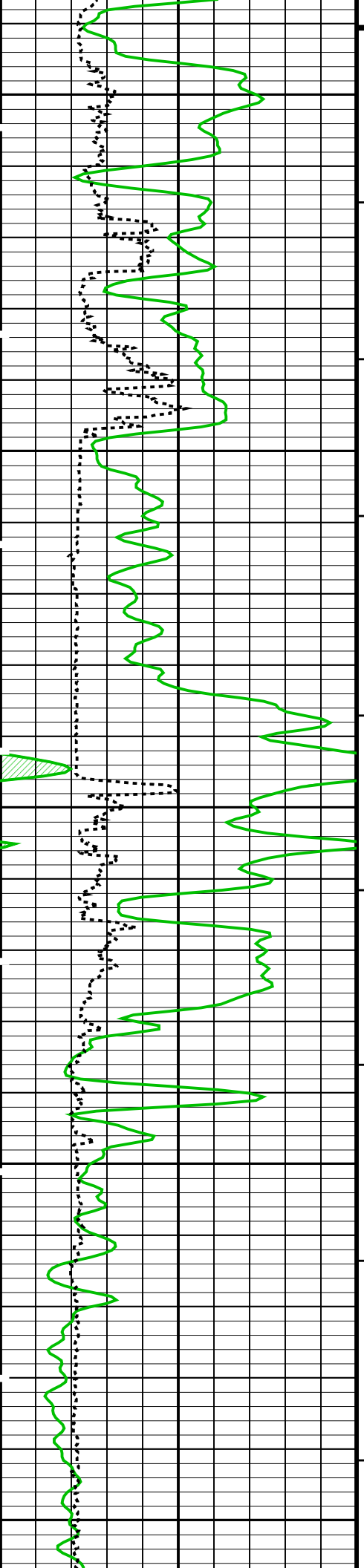
OP System Version: 18C0-147

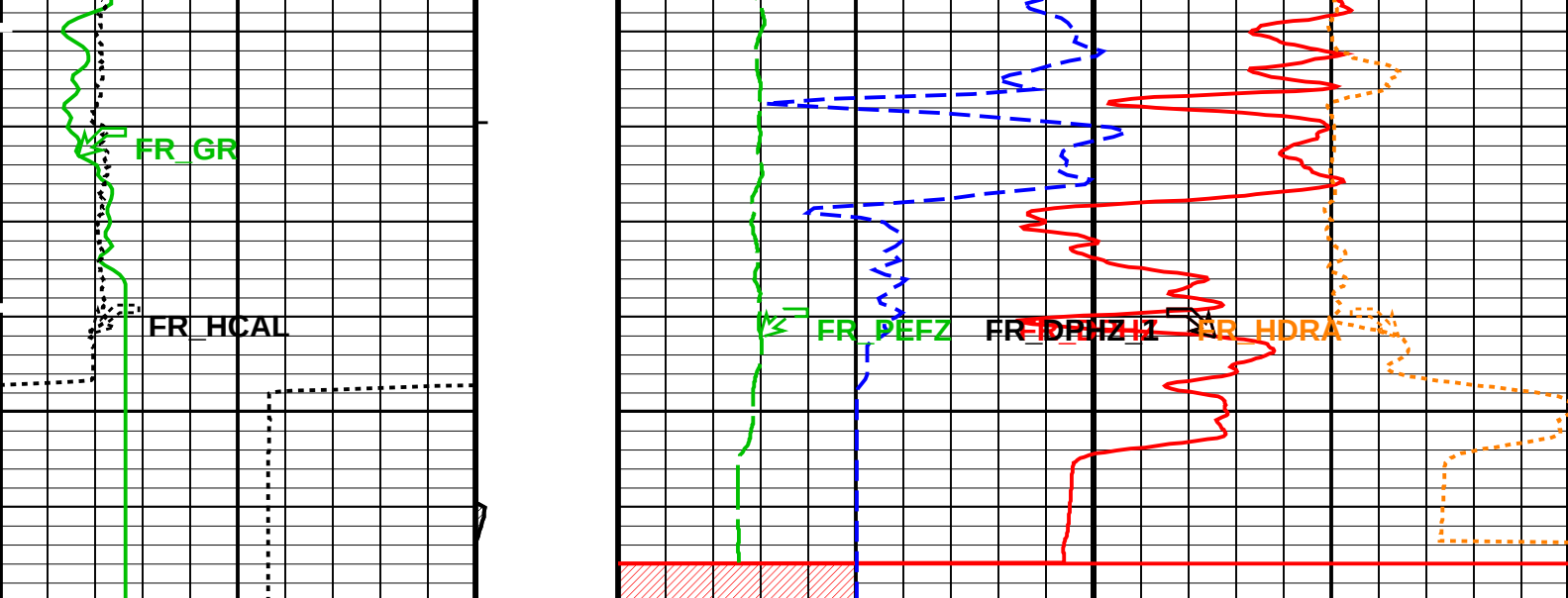
HAIT	SRPC-4042-Q3_2010_OP18	HILTD	SRPC-4042-Q3_2010_OP18
HNGC-B	HFE-4001-OP18-NUCL	HNGS-BA	HFE-4001-OP18-NUCL
DTCH	18C0-147		











MAIN PASS: *** PLATFORM EXPRESS – NUCLEAR POROSITY ***

Gamma Ray Backup	Cable Drag	Std. Res. Density Porosity (DPHZ) (V/V)		-0.1
Gamma Ray (GR) (GAPI)	Tool/Tot. Drag	Alpha Processed Neutron Porosity (NPOR) (V/V)		-0.1
Caliper (HCAL) (IN)	Stuck Stretch (STIT) (F)	Std. Res. Formation Pe (PEFZ) (----	Density Correction (HDRA) (G/C3)	0.25
		Gas Effect		
		NPOR Backup		

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	
HAIT-H: Array Induction Tool – H			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1.000	g/cm3
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	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.710	g/cm3

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	1.000	in
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68.000	degF
SOCN	Standoff Distance	0.125	in
SOCO	Standoff Correction Option	YES	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
STI: Stuck Tool Indicator			
STKT	STI Stuck Threshold	2.500	ft
TDD	Total Depth - Driller	4160.0	ft
TDL	Total Depth - Logger	4160.0	ft
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
PERT: Preliminary Evaluation - Real Time			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
System and Miscellaneous			
BS	Bit Size	7.875	in
BSAL	Borehole Salinity	3700.0	ppm
CSIZ	Current Casing Size	8.625	in
CWEI	Casing Weight	24.000	lbm/ft
DFD	Drilling Fluid Density	9.400	lbm/gal
FSAL	Formation Salinity		
MST	Mud Sample Temperature	77.105	degF
RMFS	Resistivity of Mud Filtrate Sample	0.605	ohm.m

Format: PORO_2 Vertical Scale: 5" per 100' Graphics File Created: 11-Jan-2011 01:12

OP System Version: 18C0-147

HAIT	SRPC-4042-Q3_2010_OP18	HILTD	SRPC-4042-Q3_2010_OP18
HNGC-B	HFE-4001-OP18-NUCL	HNGS-BA	HFE-4001-OP18-NUCL
DTCH	18C0-147		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_007LUP	FN:6	PRODUCER	10-Jan-2011 22:32	4170.0 FT	215.5 FT
---------	-------------------------	------	----------	-------------------	-----------	----------

Schlumberger

REPEAT ANALYSIS

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_005PUP	FN:4	PRODUCER	10-Jan-2011 22:31	4179.0 FT	3842.0 FT
---------	-------------------------	------	----------	-------------------	-----------	-----------

Output DLIS Files

OP System Version: 18C0-147

HAIT-H
HNGC-B
DTC-H

SRPC-4042-Q3_2010_OP18
HFE-4001-OP18-NUCL
18C0-147

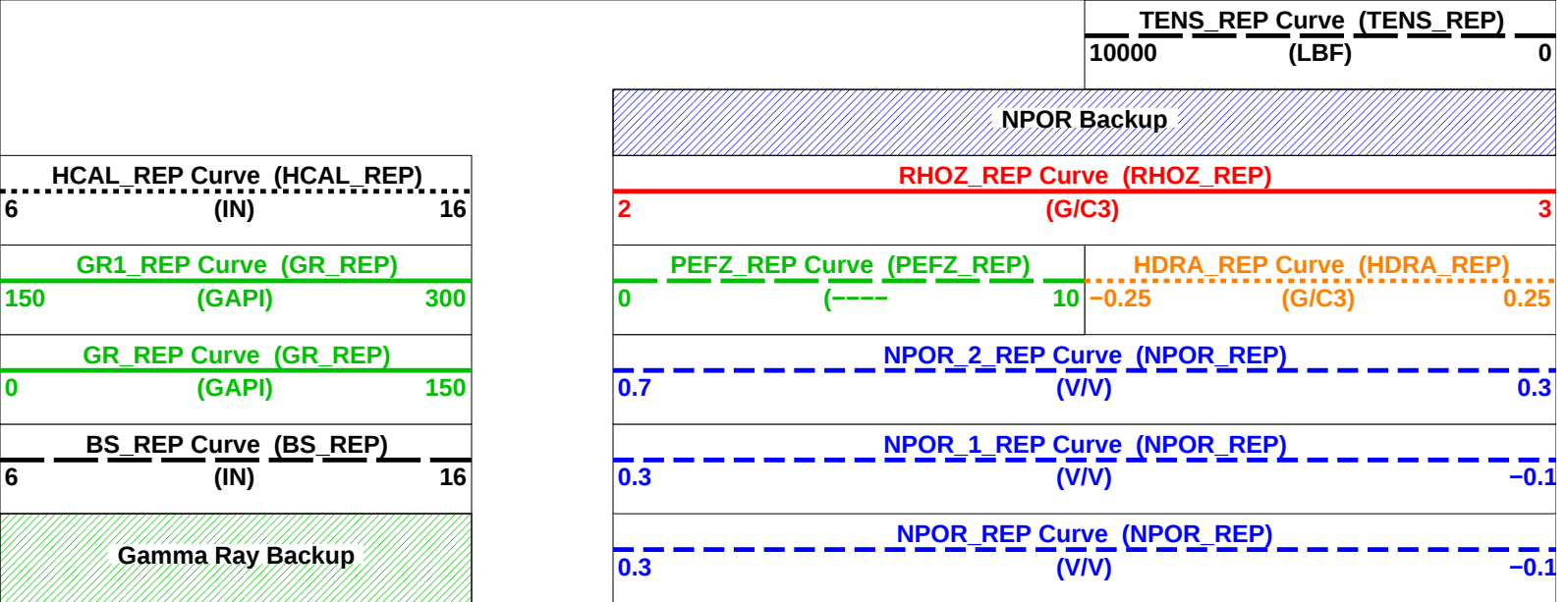
HILTB-FTB
HNGS-BA

SRPC-4042-Q3_2010_OP18
HFE-4001-OP18-NUCL

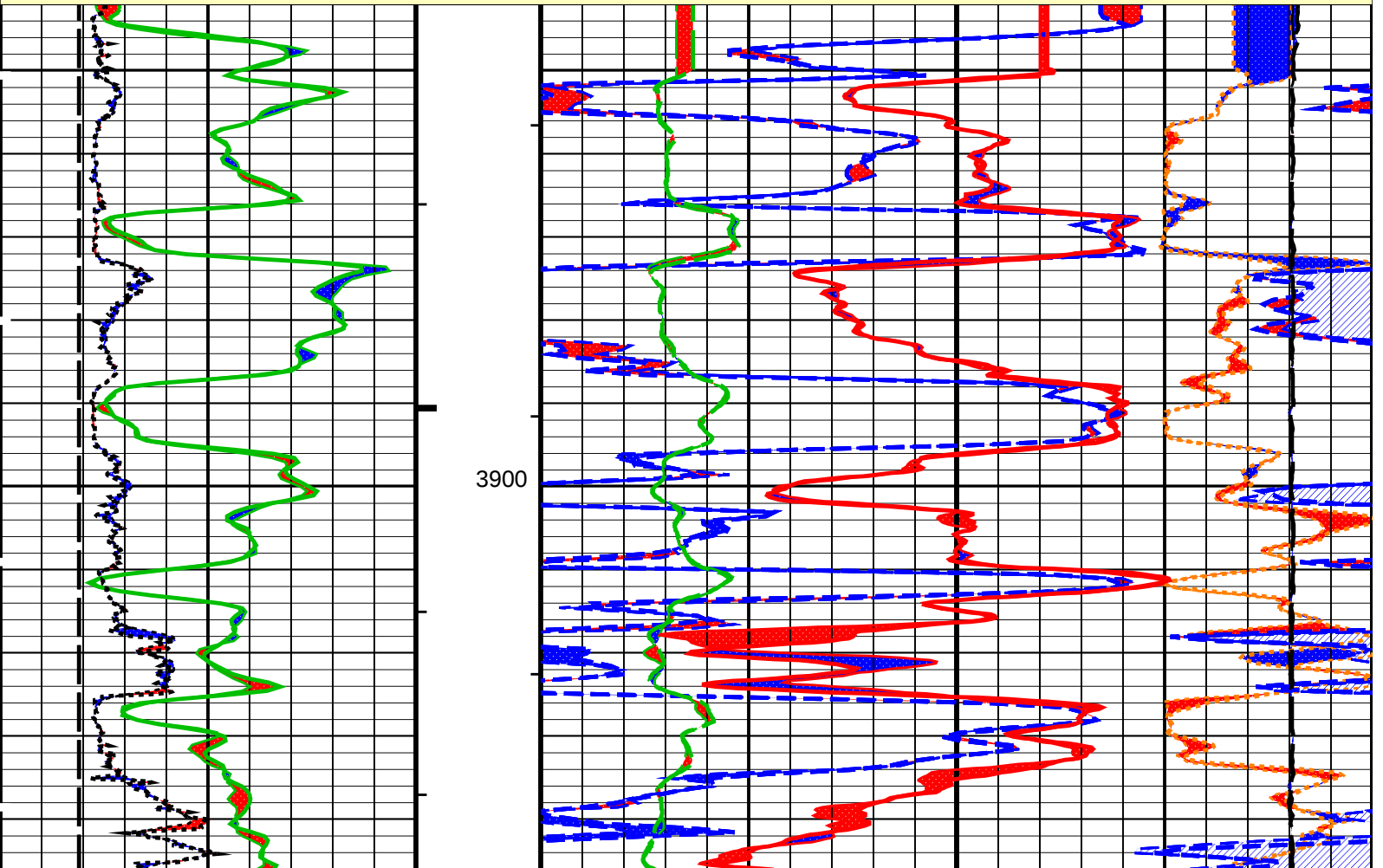
PIP SUMMARY

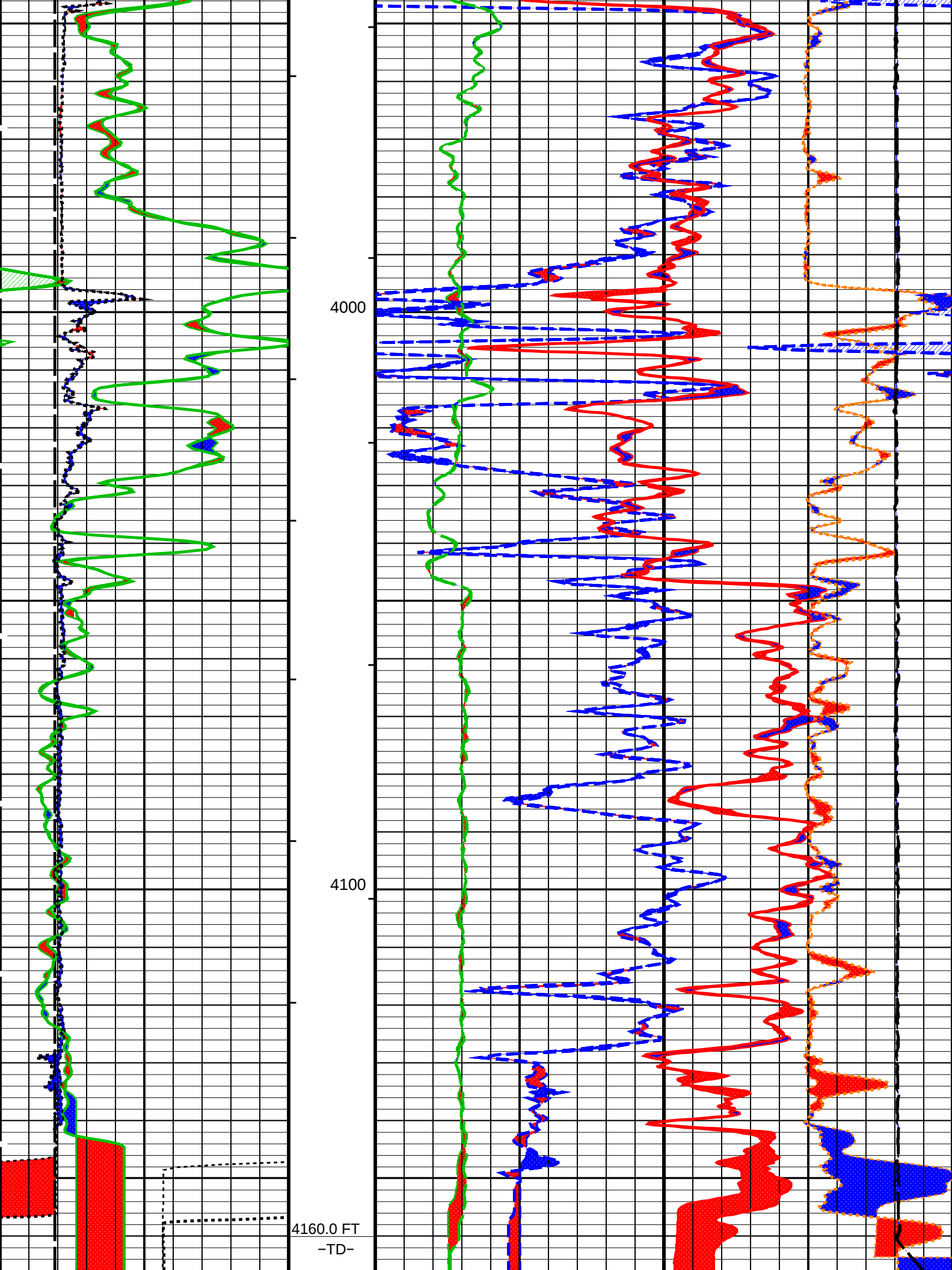
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

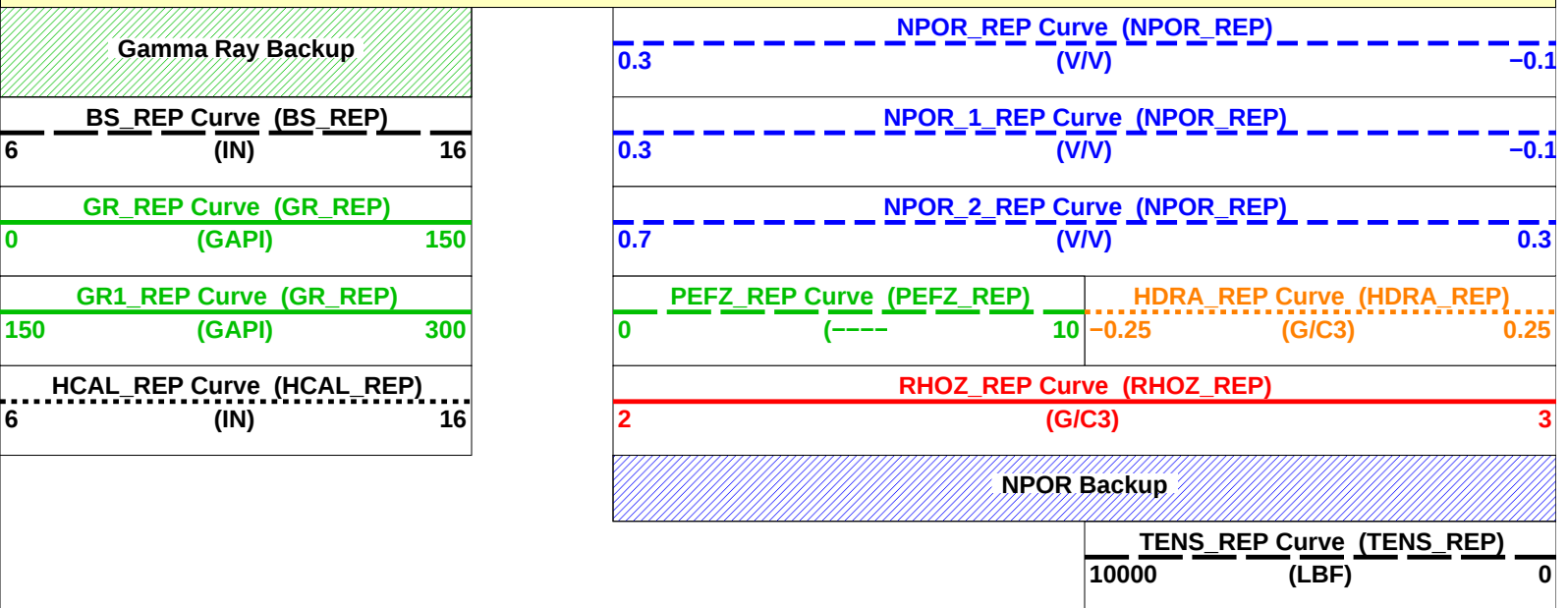


MAIN PASS: *** PLATFORM EXPRESS - NUCLEAR POROSITY ***





MAIN PASS: *** PLATFORM EXPRESS – NUCLEAR POROSITY ***



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
HAIT-H: Array Induction Tool – H		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	68 DEGF
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
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
HSCO	Hole Size Correction Option	YES
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
MCCO	Mud Cake Correction Option	NO
MCOR	Mud Correction	NATU
MWCO	Mud Weight Correction Option	NO
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM	HRDD Processing Mode	HiRes
NSAR	HRDD Depth Sampling Rate	1 IN
PTCO	Pressure/Temperature Correction Option	NO
SDAT	Standoff Data Source	SOCN
SHT	Surface Hole Temperature	68 DEGF
SOCN	Standoff Distance	0.125 IN
SOCO	Standoff Correction Option	YES
HNGBS-BA: Hostile Natural Gamma Ray Sonde		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	68 DEGF
STI: Stuck Tool Indicator		
TDI	Total Depth Indicator	1160.00 FT

IDL	Total Depth - Logger	4160.00	FT
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	4.5	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
PERT: Preliminary Evaluation - Real Time			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	3700.00	PPM
CSIZ	Current Casing Size	8.625	IN
CWEI	Casing Weight	24.00	LB/F
DFD	Drilling Fluid Density	9.40	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
MST	Mud Sample Temperature	77.11	DEGF
RMFS	Resistivity of Mud Filtrate Sample	0.6053	OHMM
TD	Total Depth	4160	FT

Format: PORO_REP Vertical Scale: 5" per 100' Graphics File Created: 10-Jan-2011 22:32

OP System Version: 18C0-147

HAIT-H	SRPC-4042-Q3_2010_OP18	HILTB-FTB	SRPC-4042-Q3_2010_OP18
HNGC-B	HFE-4001-OP18-NUCL	HNGS-BA	HFE-4001-OP18-NUCL
DTC-H	18C0-147		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_005PUP	FN:4	PRODUCER	10-Jan-2011 22:31	4179.0 FT	3842.0 FT
---------	-------------------------	------	----------	-------------------	-----------	-----------

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_007LUP	FN:6	PRODUCER	10-Jan-2011 22:32
---------	-------------------------	------	----------	-------------------

Company: **McElvain Oil & Gas, Inc**

Schlumberger

Well: **Hemmert 24-9 #1**

Field: **Mong**

County: **Trego**

State: **Kansas**

Platform Express
Compensated Neutron
Litho Density