

Schlumberger

Company: **Noble Energy Inc**

Well: **Suman-George Trusts 14-26**

Field: **Duke**

County: **Yuma** State: **Colorado**

Well: **Suman-George Trusts 14-26**
Field: **Duke**
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1

[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	RMC			
RM @ MRT	RMF @ MRT	@		@
Maximum Recorded Temperatures				
Circulation Stopped	Time			
Logger On Bottom	Time			
Unit Number	Location			
Recorded By				
Witnessed By				

OTHER SERVICES1 OS1: None. OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the first run in the hole.	
Toolstring run as per tool sketch.	
Matrix: Limestone (2.71 g/cc)	

Rig: Excel 2	
Crew: David Marquez	

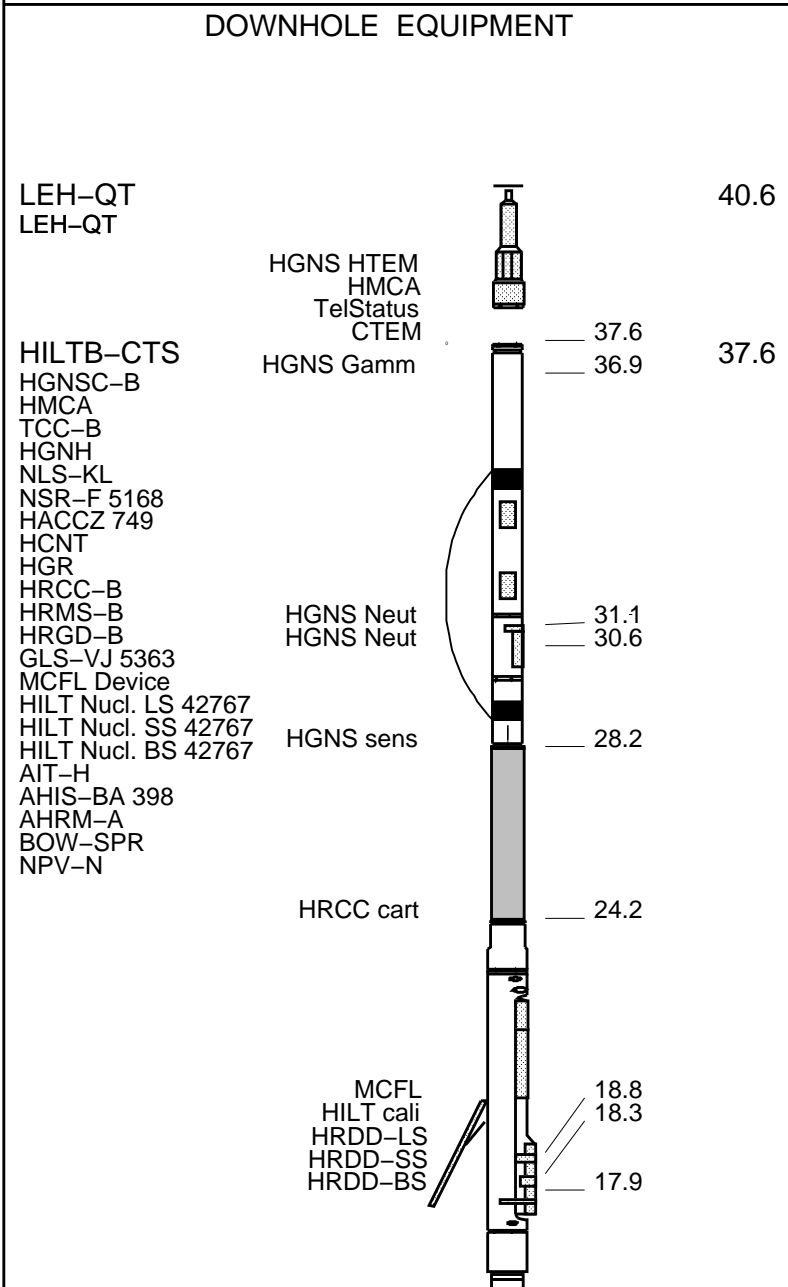
RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
BHDJ-00057 18C0-147 25 ft					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT

WITM (CTS)-A
GSR-U/Y
NCT-B
CNB-AB

NCS-VB



Induction
Temperatu
Power Sup

7.9

SP SENSOR
HTEN HMAS
Accelerom HV
Mud Resis
Tension

0.1

0.0

TOOL ZERO

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

Production String

(in) (ft)
OD ID MD

Well Schematic

(ft) (in)
MD OD ID

Casing String

Casing String

Casing Shoe
Borehole Segment

				<div> <div></div> <div></div> </div>	<div> <div></div> <div></div> </div>			
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All Depths are Driller's
Depths

Schlumberger

COMBO LOG 2" = 100'

MAXIS Field Log

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_007LUP FN:6 PRODUCER 28-Dec-2010 23:45 2418.0 FT 318.0 FT

Integrated Hole/Cement Volume Summary

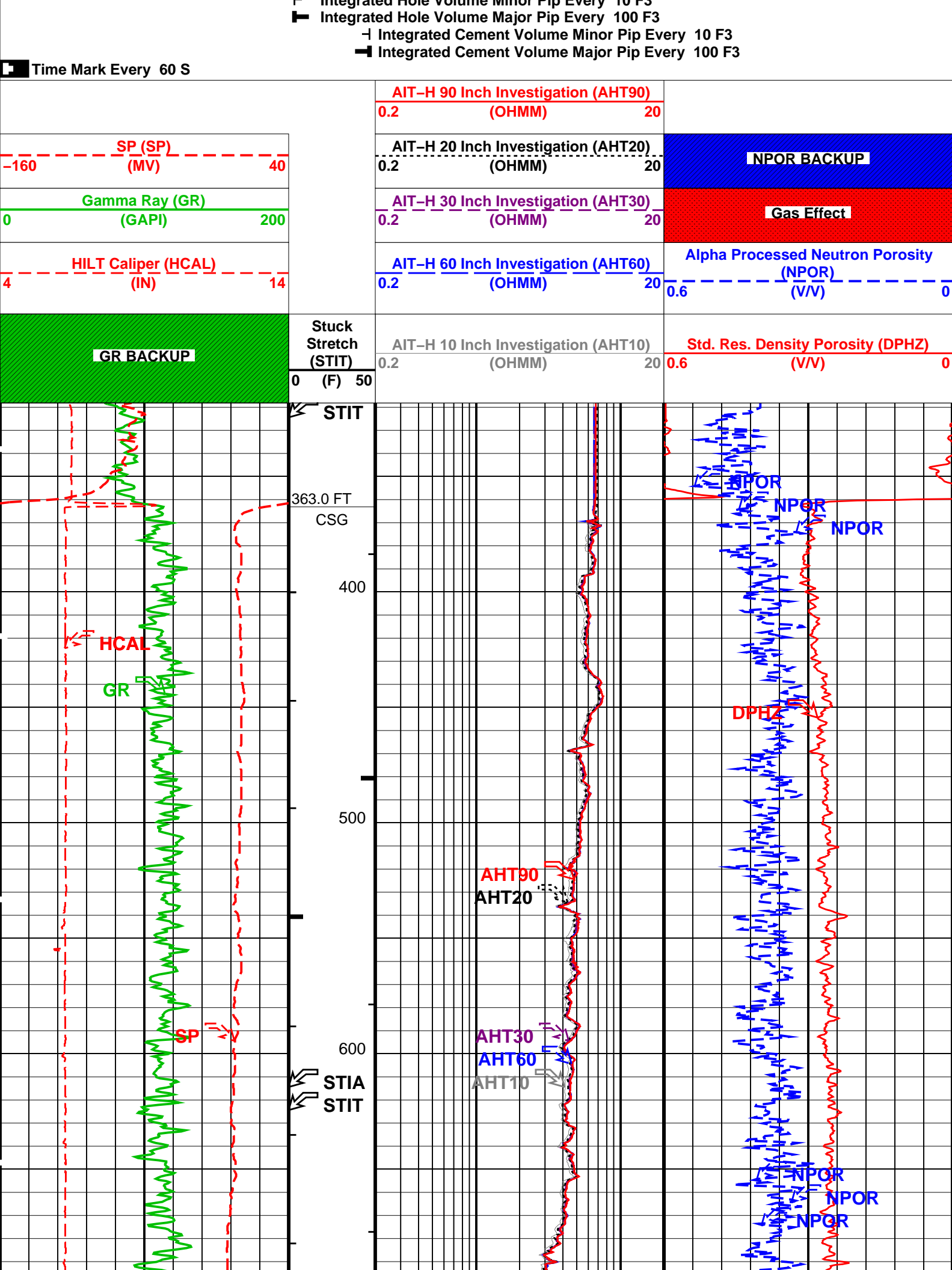
Hole Volume = 437.93 F3
Cement Volume = 212.14 F3 (assuming 4.50 IN casing O.D.)
Computed from 2407.0 FT to 363.0 FT using data channel(s) HCAL

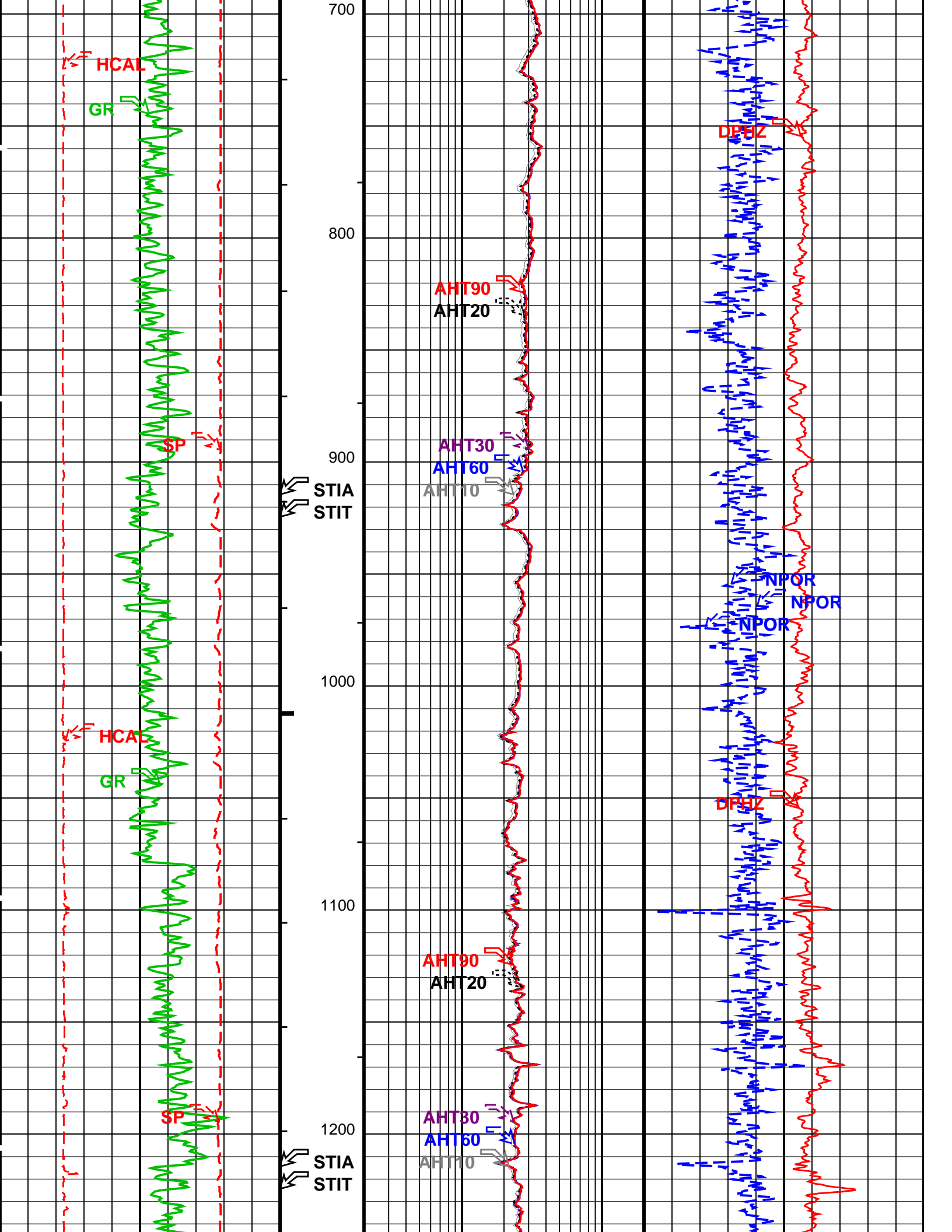
OP System Version: 18C0-147

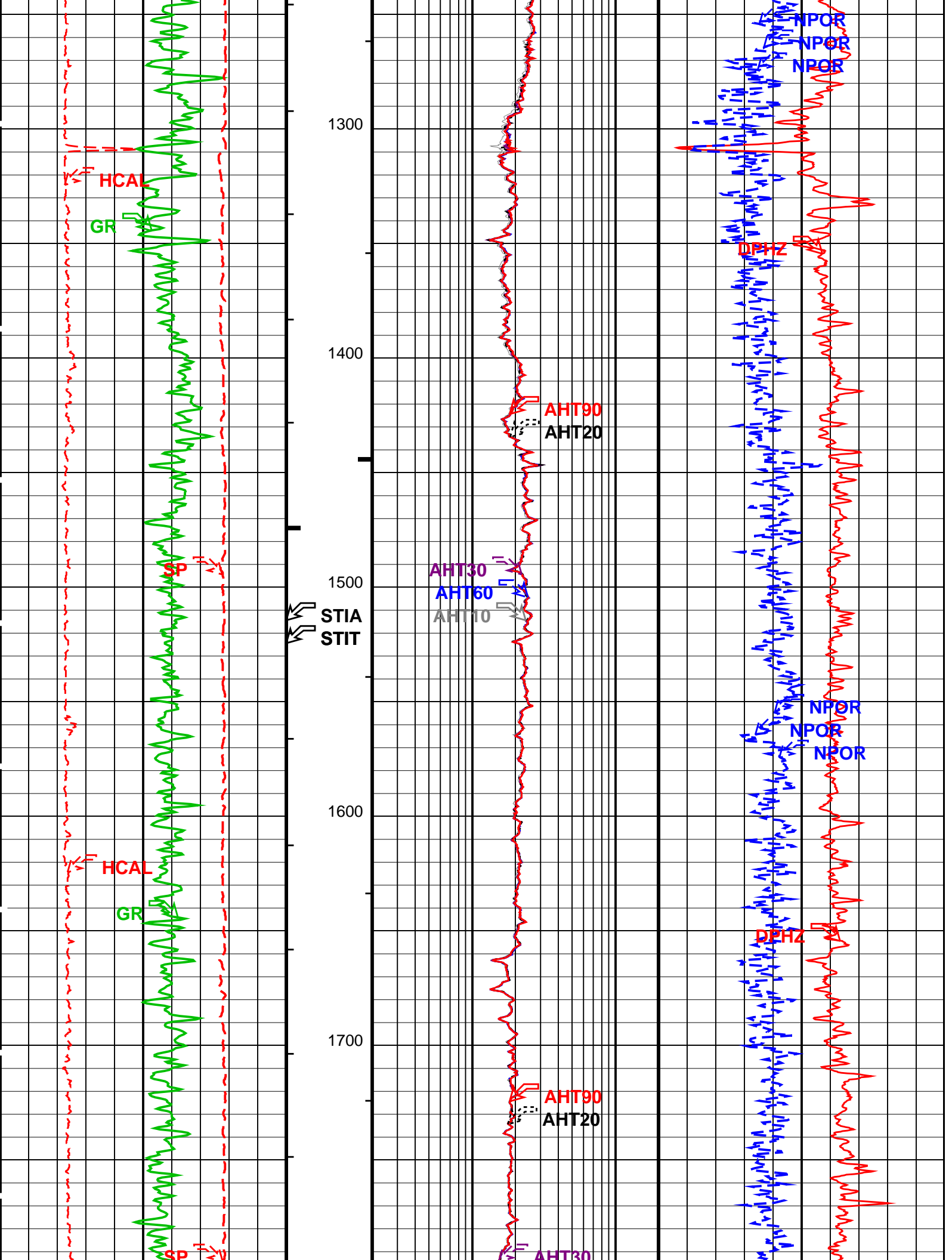
HILTB-CTS 18C0-147

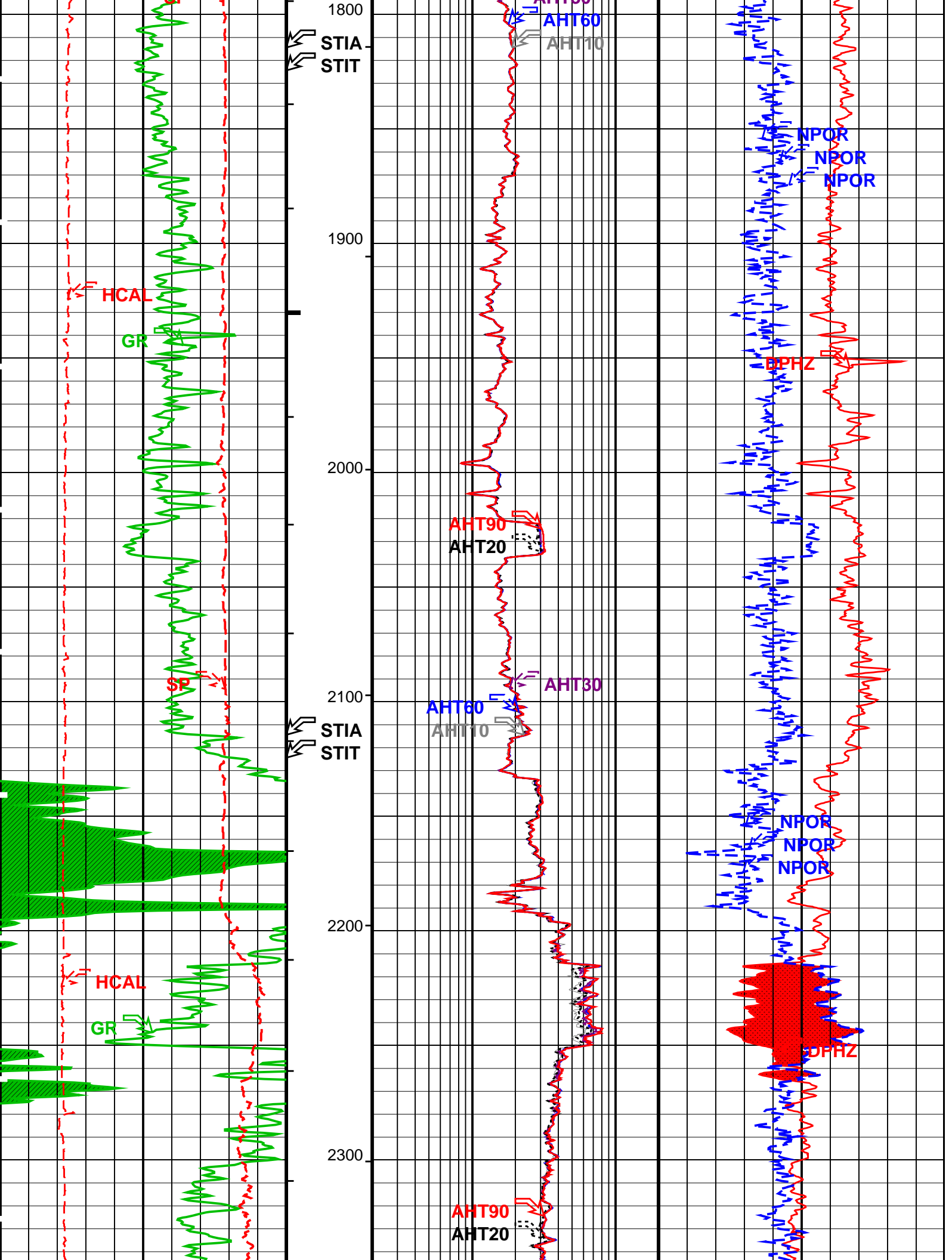
PIP SUMMARY

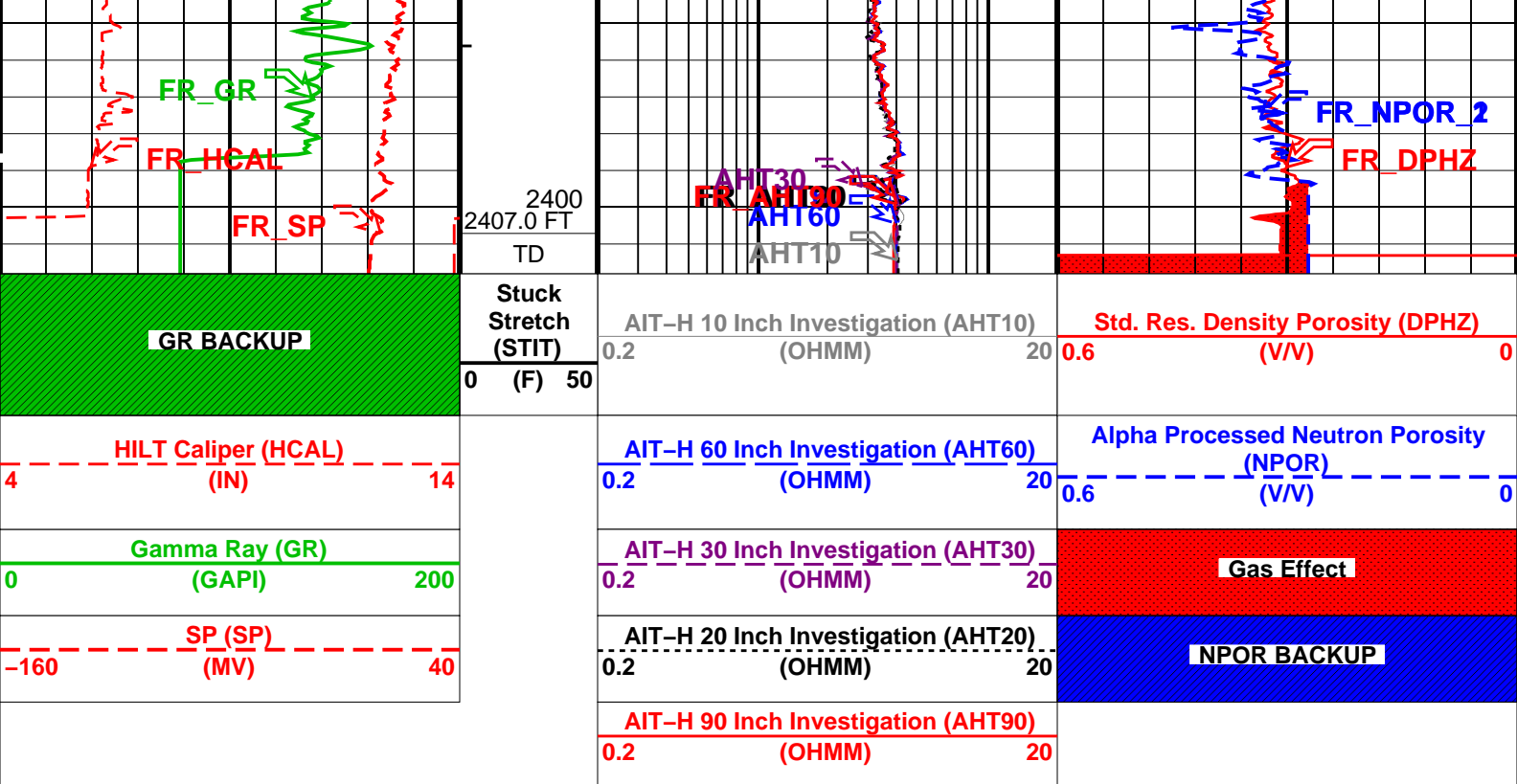
Integrated Hole Volume Minor Bin Every 10 F3











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
HILTB-CTS: High resolution Integrated Logging Tool-CTS		
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
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	0.125 IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	160 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	AITH_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
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	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
SPNV	SP Next Value	0	MV
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	160	DEGF
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
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
FEQL: Formation Evaluation Quick Look			
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PERT: Preliminary Evaluation – Real Time			
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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	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth – Driller	2408.00	FT
TDL	Total Depth – Logger	2407.00	FT
System and Miscellaneous			
BS	Bit Size	6.250	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	9.00	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	25.00	FT
MST	Mud Sample Temperature	59.99	DEGF
RMFS	Resistivity of Mud Filtrate Sample	0.1650	OHMM
TD	Total Depth	2407	FT

Format: COMBO_LOG_S2 Vertical Scale: 2" per 100' Graphics File Created: 28-Dec-2010 23:45

OP System Version: 18C0-147

HILTB-CTS 18C0-147

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_007LUP FN:6 PRODUCER 28-Dec-2010 23:45

Schlumberger

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MAXIS Field Log

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OP System Version: 18C0-147

HILTB-CTS

18C0-147

PIP SUMMARY

- └

 Integrated Hole Volume Minor Pip Every 10 F3
- └

 Integrated Hole Volume Major Pip Every 100 F3
- └

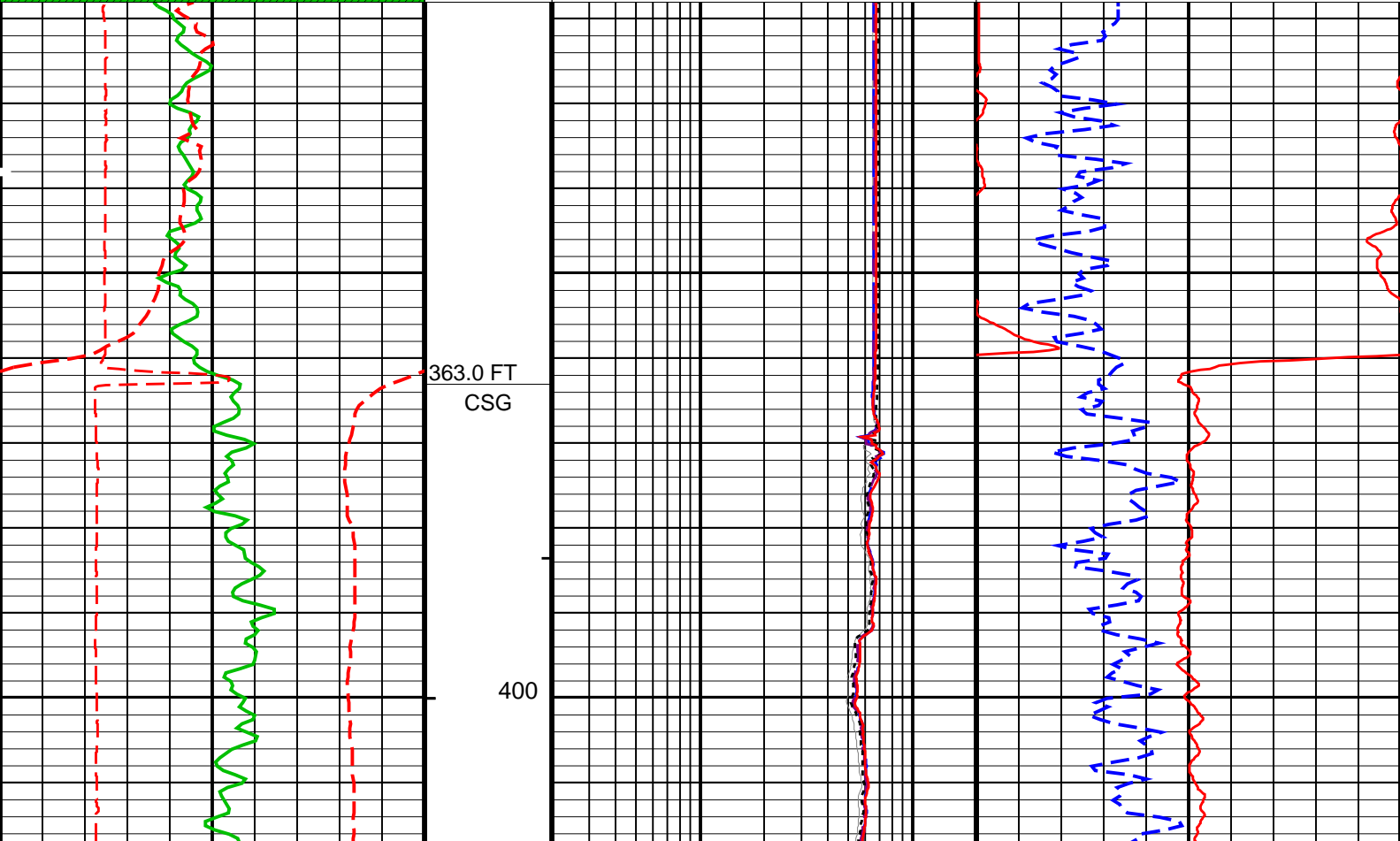
 Integrated Cement Volume Minor Pip Every 10 F3
- └

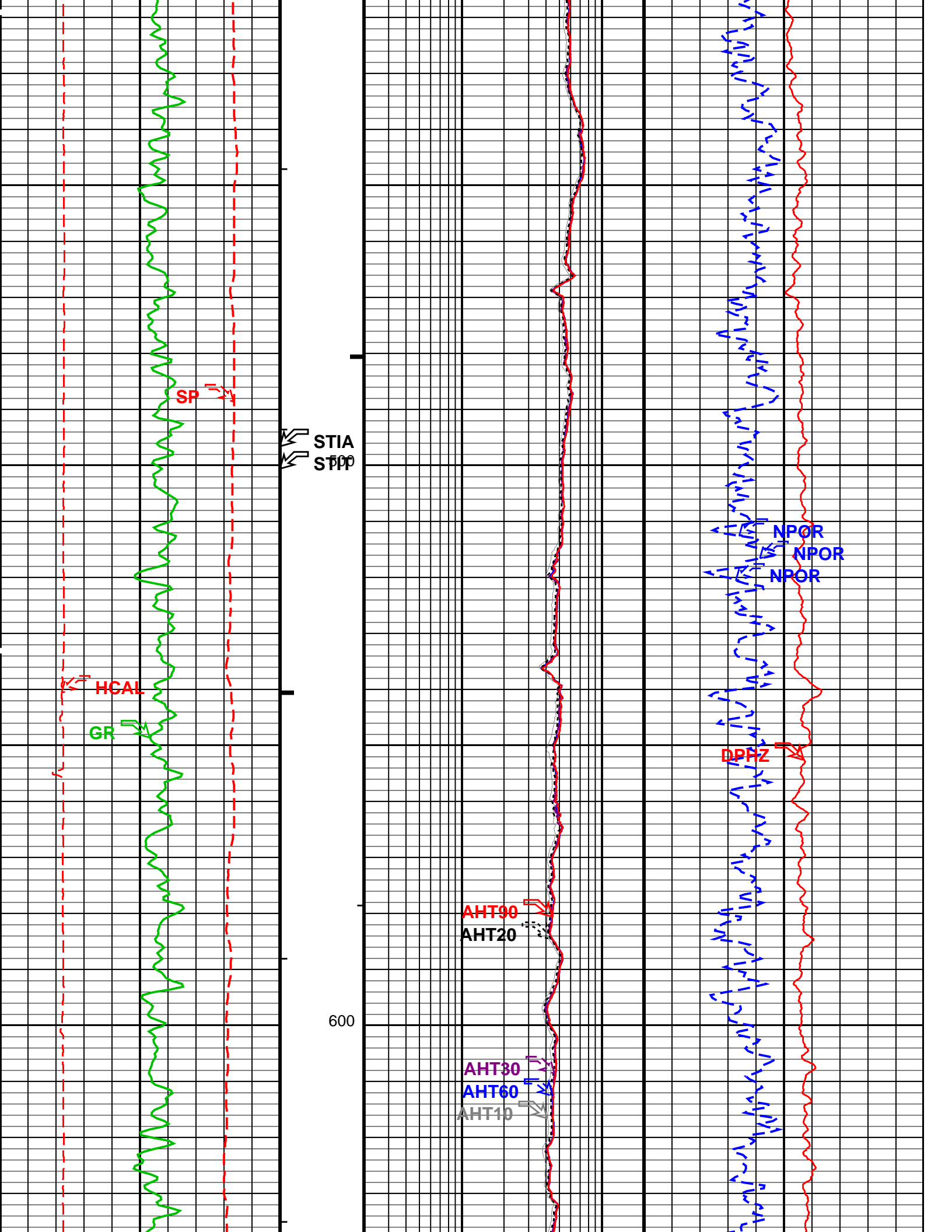
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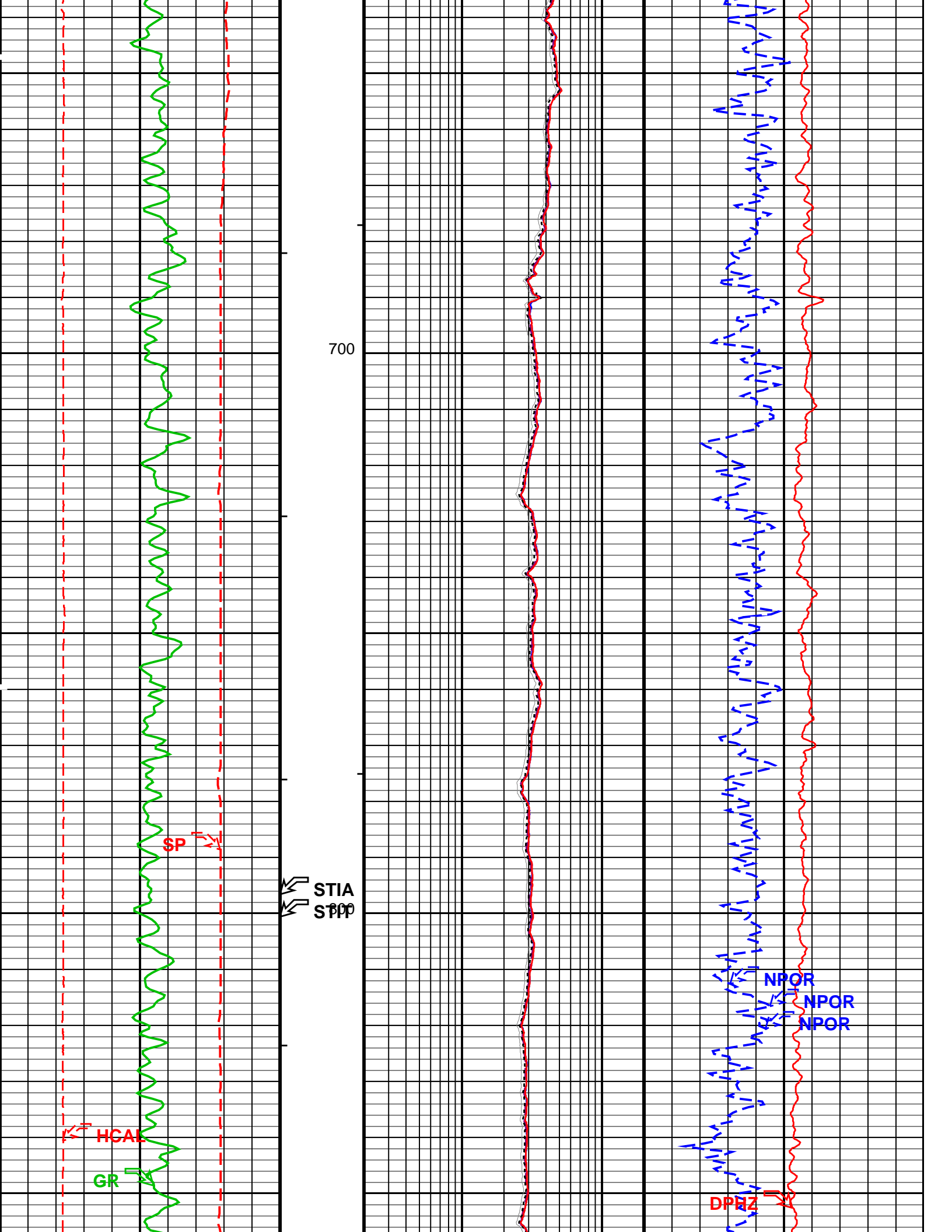
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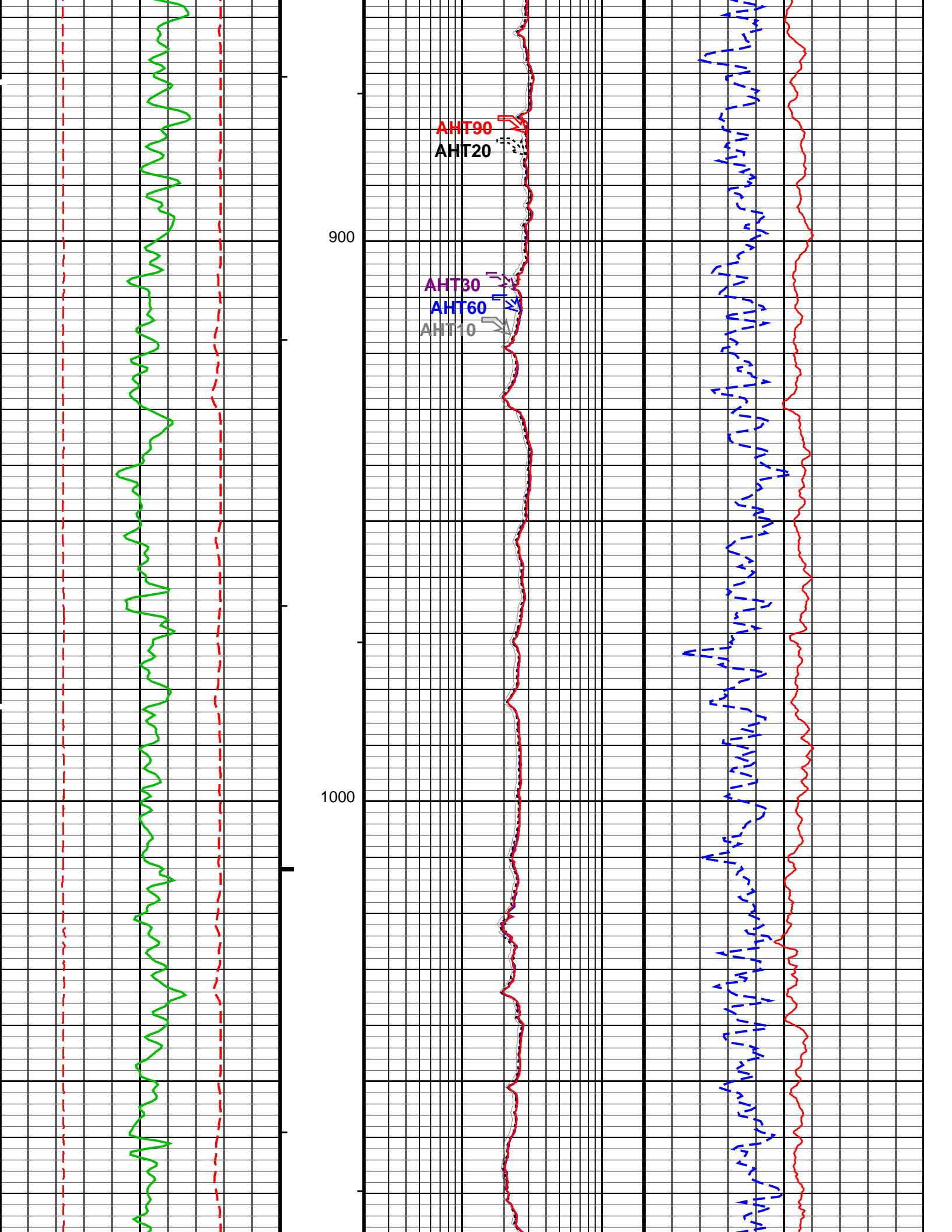
 Time Mark Every 60 S

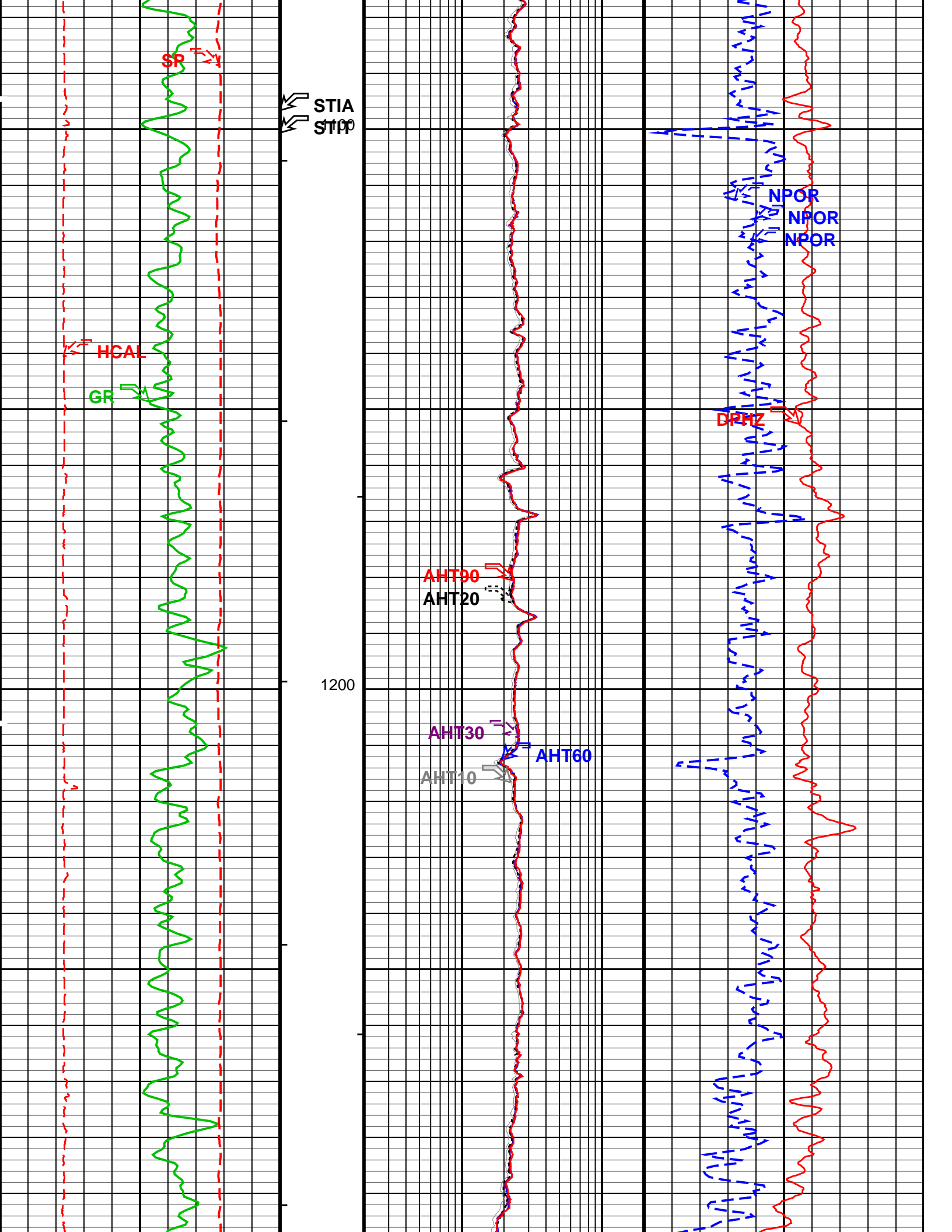
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<div>SP (SP)</div> <div>(MV)</div> <div>-160 40</div>		<div>AIT-H 20 Inch Investigation (AHT20)</div> <div>0.2 (OHMM) 20</div>	<div>NPOR BACKUP</div>
<div>Gamma Ray (GR)</div> <div>(GAPI)</div> <div>0 200</div>		<div>AIT-H 30 Inch Investigation (AHT30)</div> <div>0.2 (OHMM) 20</div>	<div>Gas Effect</div>
<div>HILT Caliper (HCAL)</div> <div>(IN)</div> <div>4 14</div>		<div>AIT-H 60 Inch Investigation (AHT60)</div> <div>0.2 (OHMM) 20</div>	<div>Alpha Processed Neutron Porosity</div> <div>(NPOR)</div> <div>(V/V)</div> <div>0.6 0</div>
<div>GR BACKUP</div>	<div>Stuck</div> <div>Stretch</div> <div>(STIT)</div> <div>0 (F) 50</div>	<div>AIT-H 10 Inch Investigation (AHT10)</div> <div>0.2 (OHMM) 20</div>	<div>Std. Res. Density Porosity (DPHZ)</div> <div>(V/V)</div> <div>0.6 0</div>

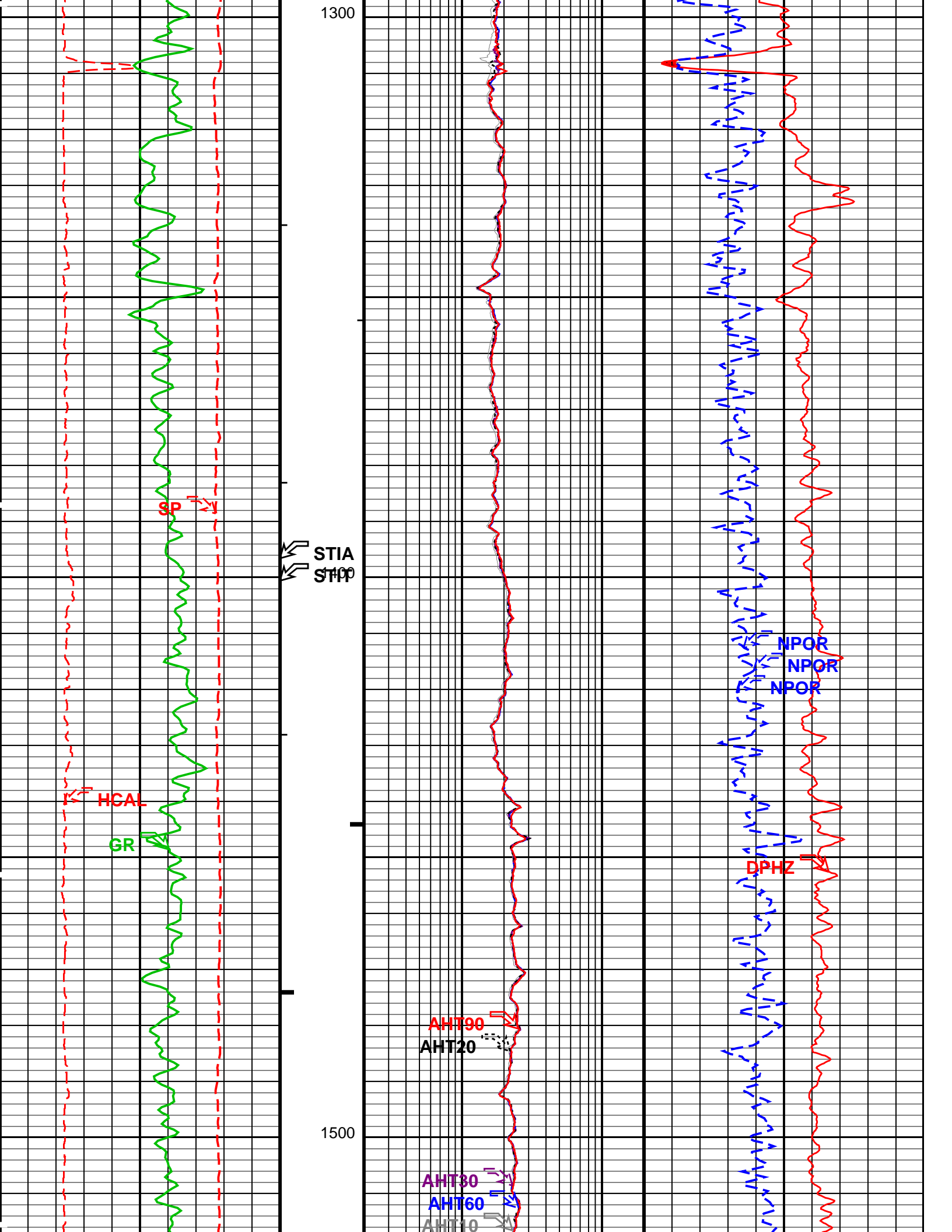


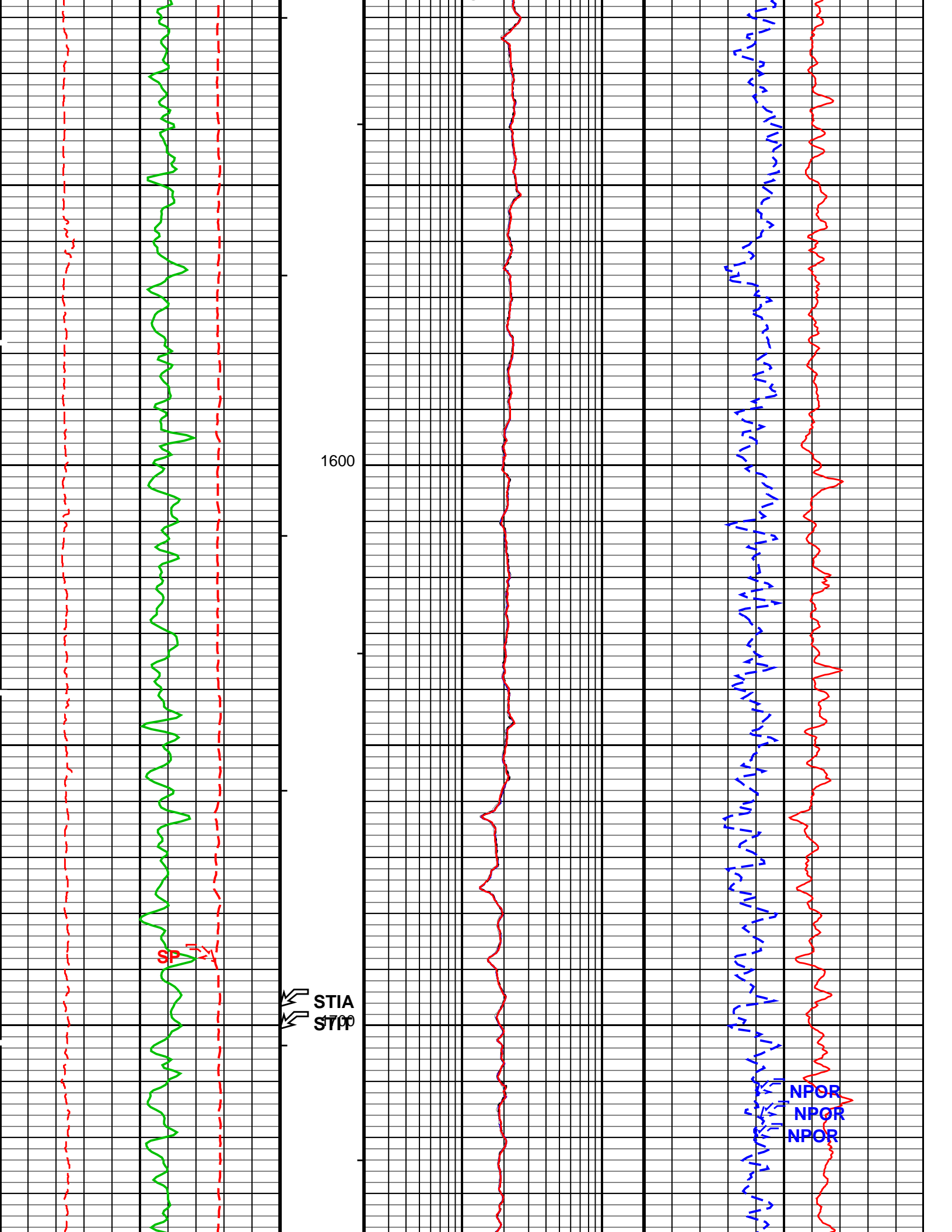


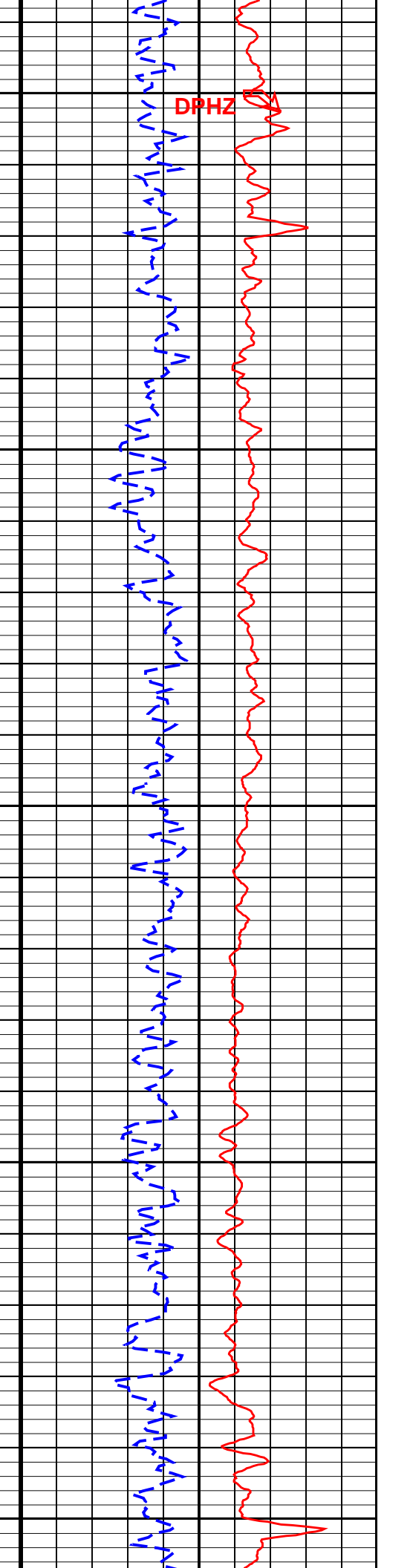
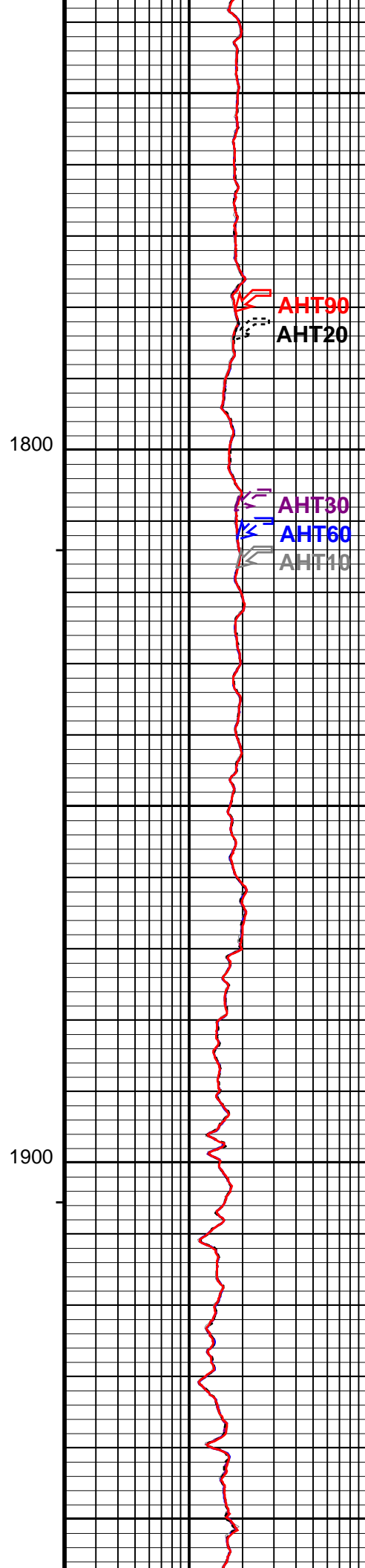
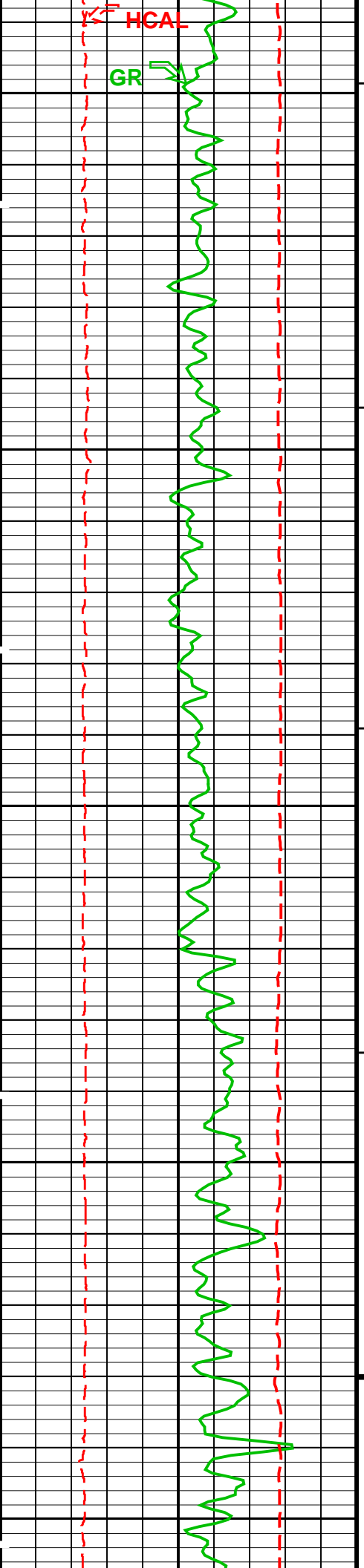


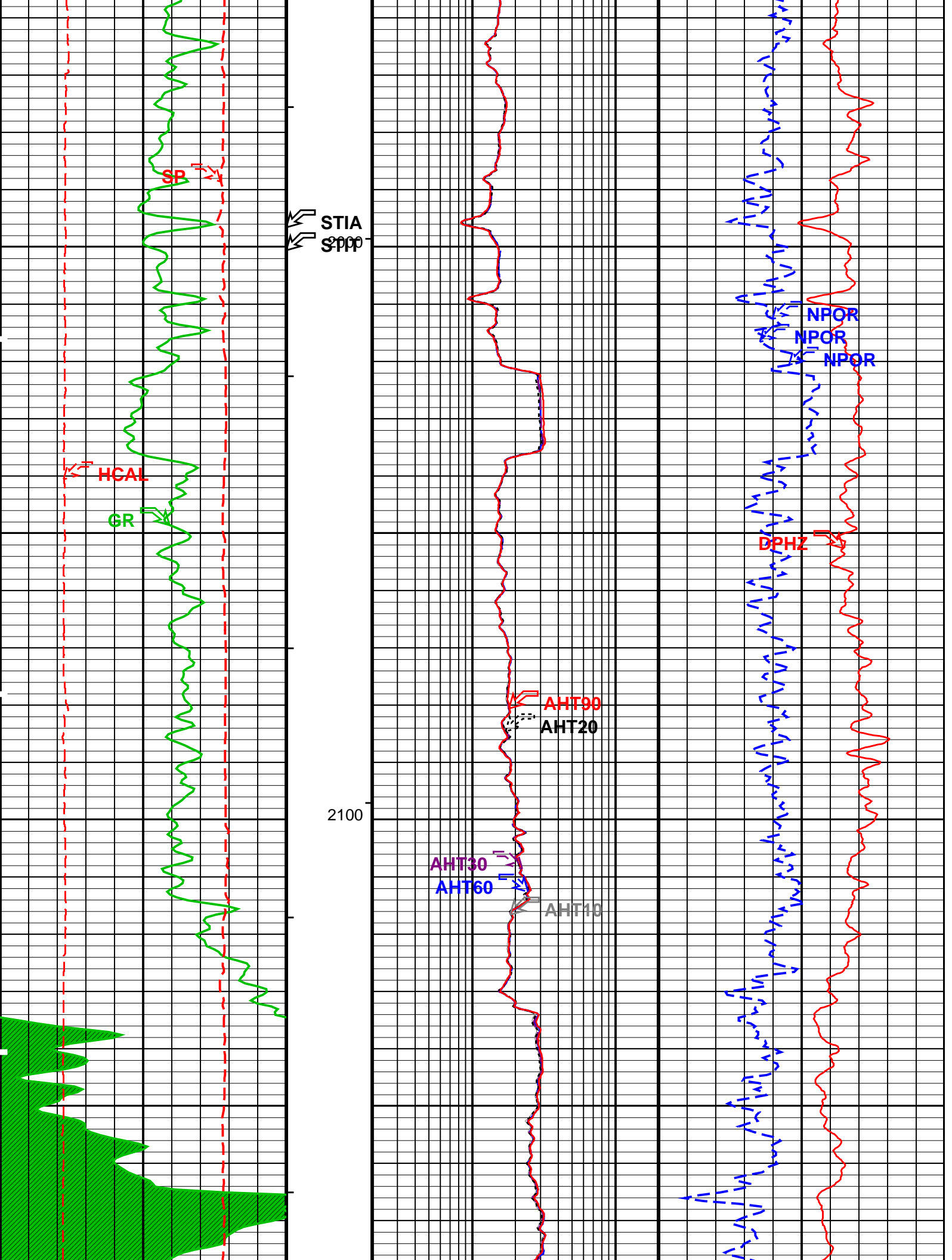


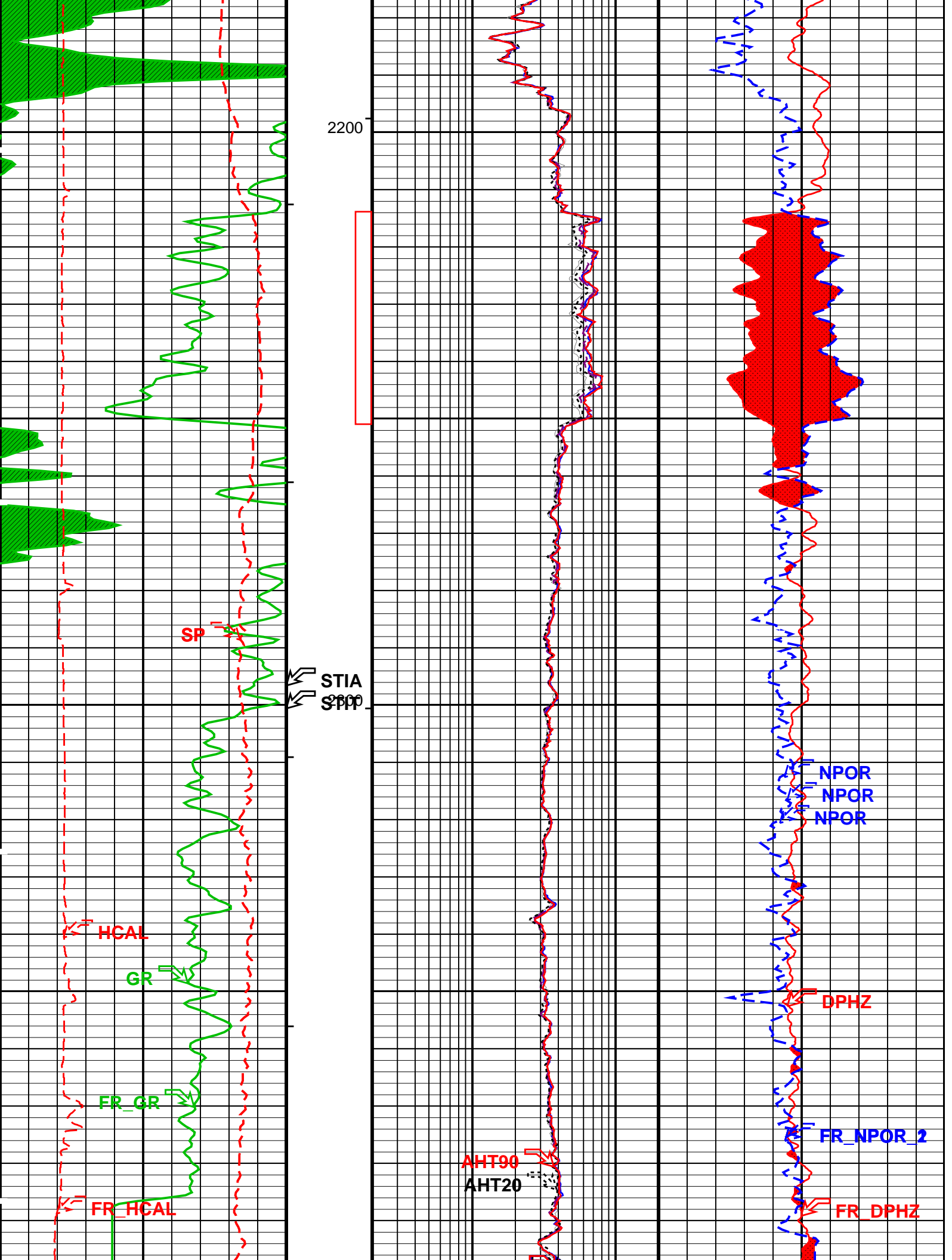


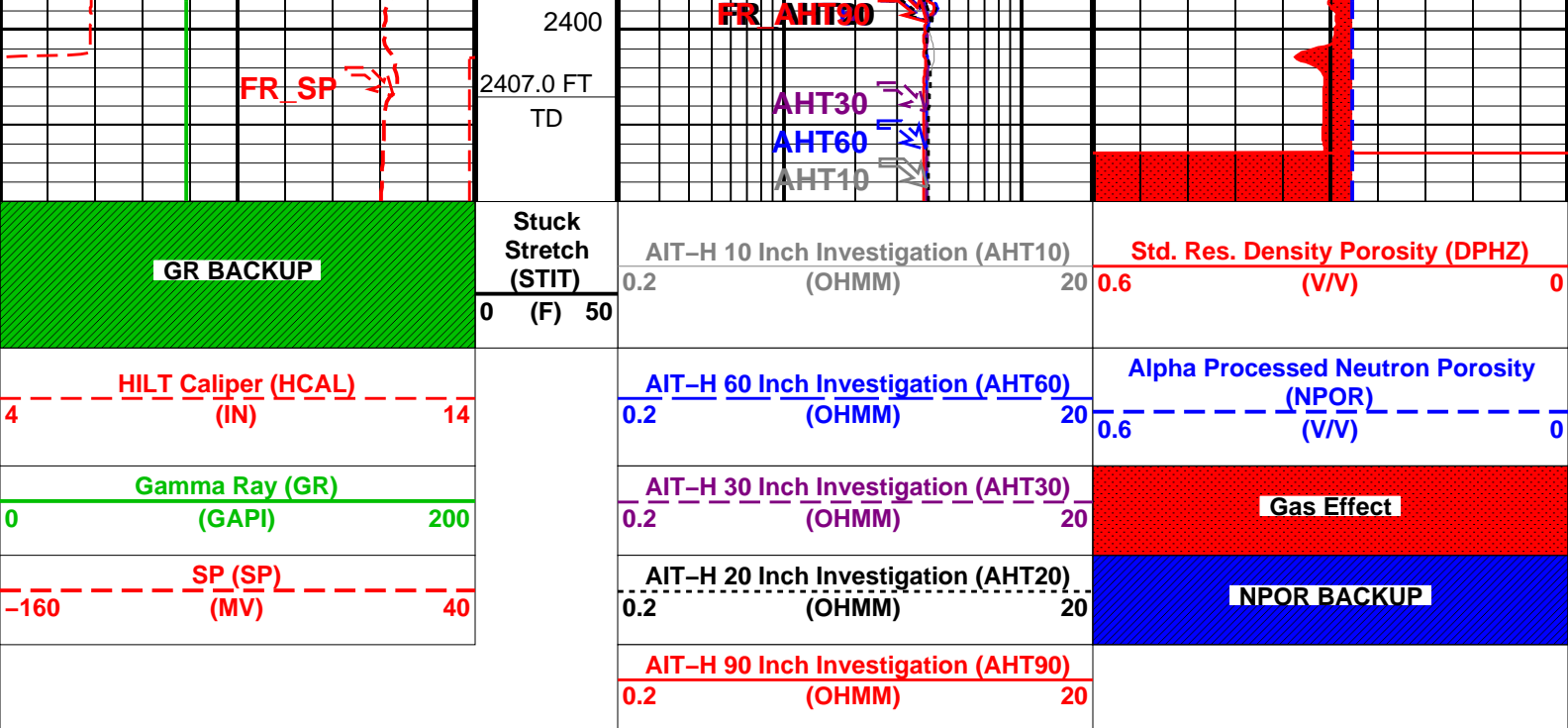












PIP SUMMARY

- └ 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
HILTB-CTS: High resolution Integrated Logging Tool-CTS		
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
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	0.125 IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	160 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	AITH_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
MWCO	Mud Weight Correction Option	NO
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM	HRDD Processing Mode	StdRes
NSAP	HRDD Depth Sampling Rate	1 IN

NSAK	Pressure/Temperature Correction Option	1	IN
PTCO	Standoff Data Source	NO	
SDAT	Surface Hole Temperature	68	DEGF
SHT	Standoff Distance	0.125	IN
SOCN	Standoff Correction Option	YES	
SOCO	SP Next Value	0	MV
SPNV			
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	160	DEGF
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
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
PERT: Preliminary Evaluation – Real Time			
BHS	Borehole Status	OPEN	
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STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth – Driller	2408.00	FT
TDL	Total Depth – Logger	2407.00	FT
System and Miscellaneous			
BS	Bit Size	6.250	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	9.00	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
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Format: COMBO_LOG Vertical Scale: 5" per 100' Graphics File Created: 28-Dec-2010 23:45

OP System Version: 18C0-147

HILTB-CTS 18C0-147

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_007LUP FN:6 PRODUCER 28-Dec-2010 23:45

Schlumberger

REPEAT ANALYSIS

MAXIS Field Log

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_006PUP FN:5 PRODUCER 28-Dec-2010 23:44 2430.0 FT 2056.0 FT

Output DLIS Files

DEFAULT

AIT_TLD_MCFL_CNL_007LUP

FN:6

PRODUCER

28-Dec-2010 23:45

OP System Version: 18C0-147

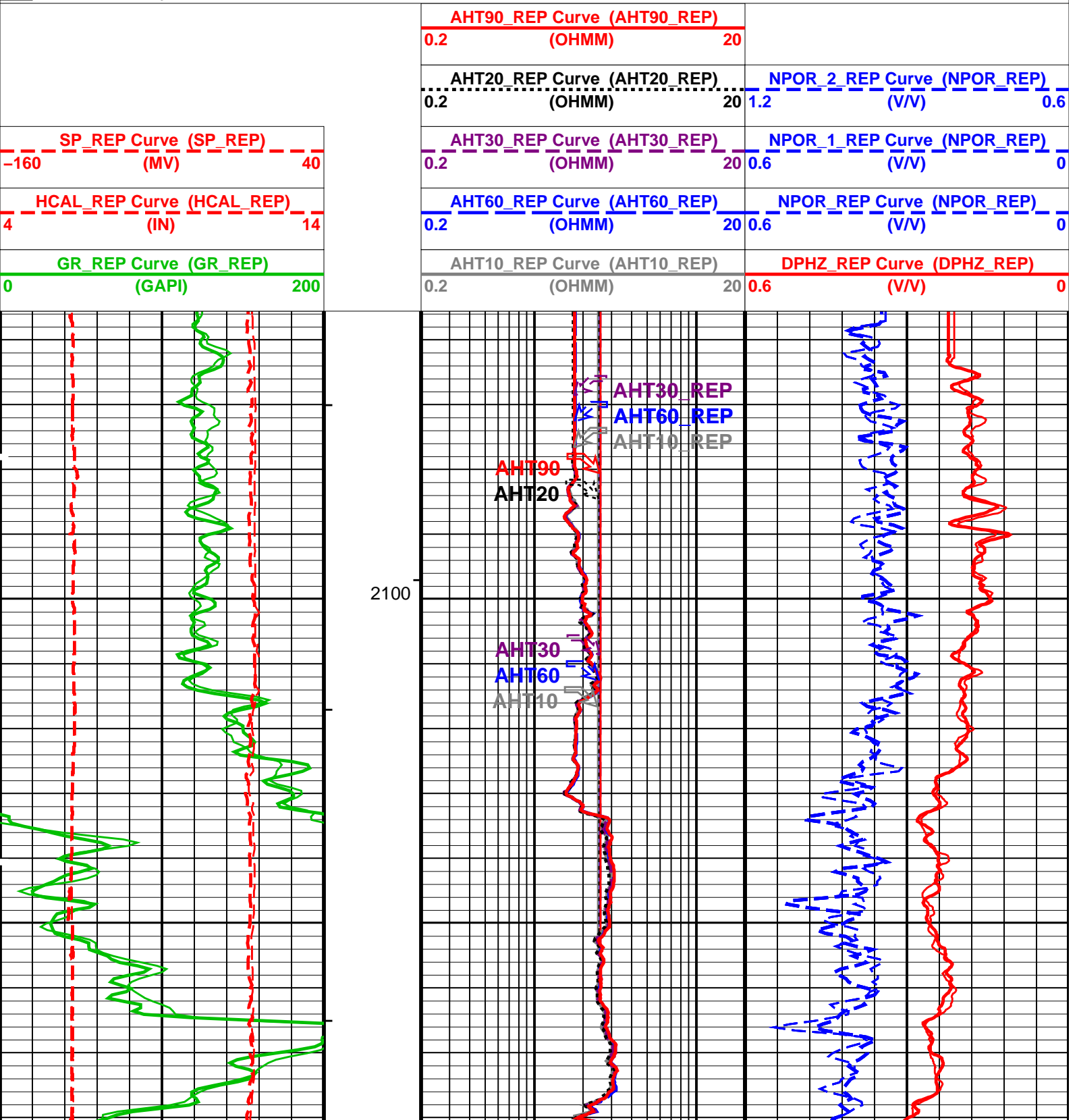
HILTB-CTS

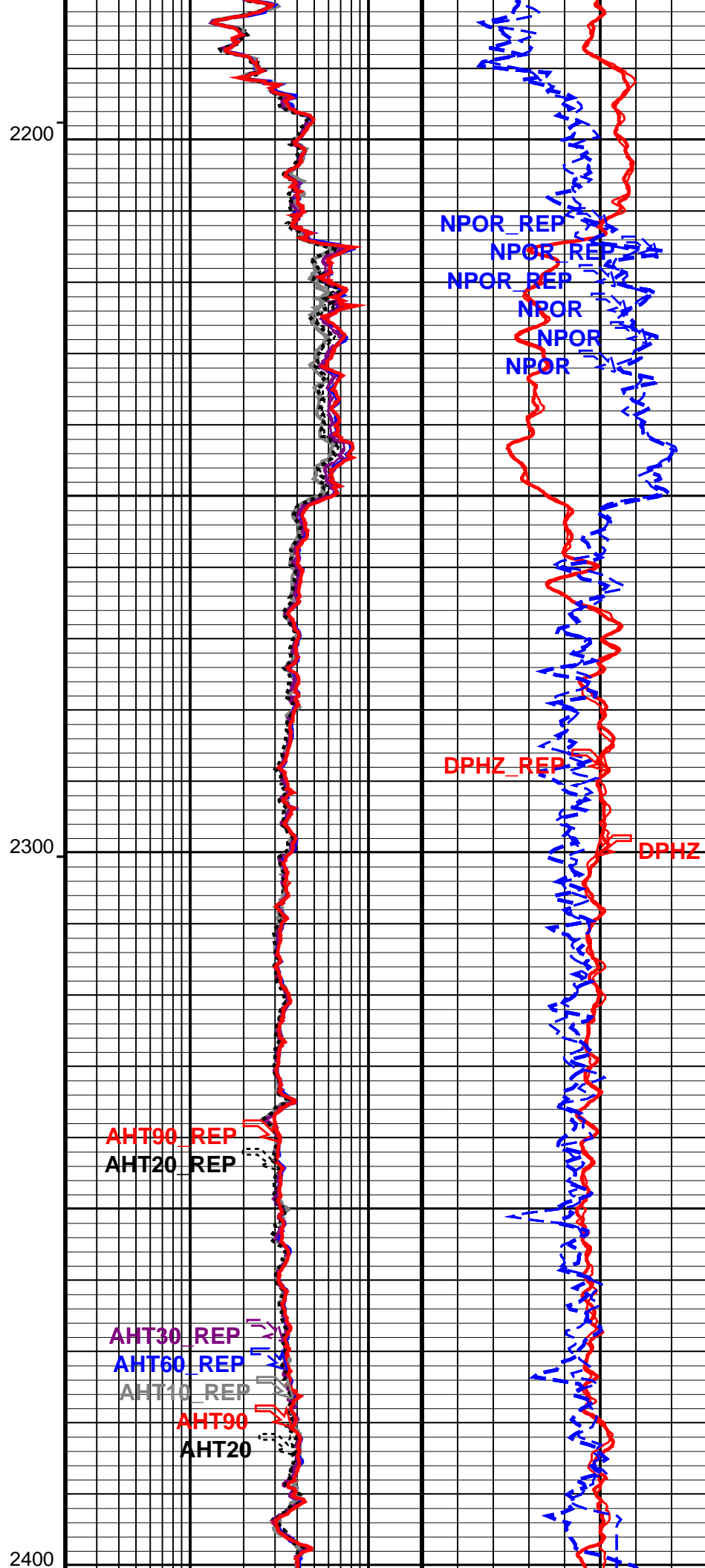
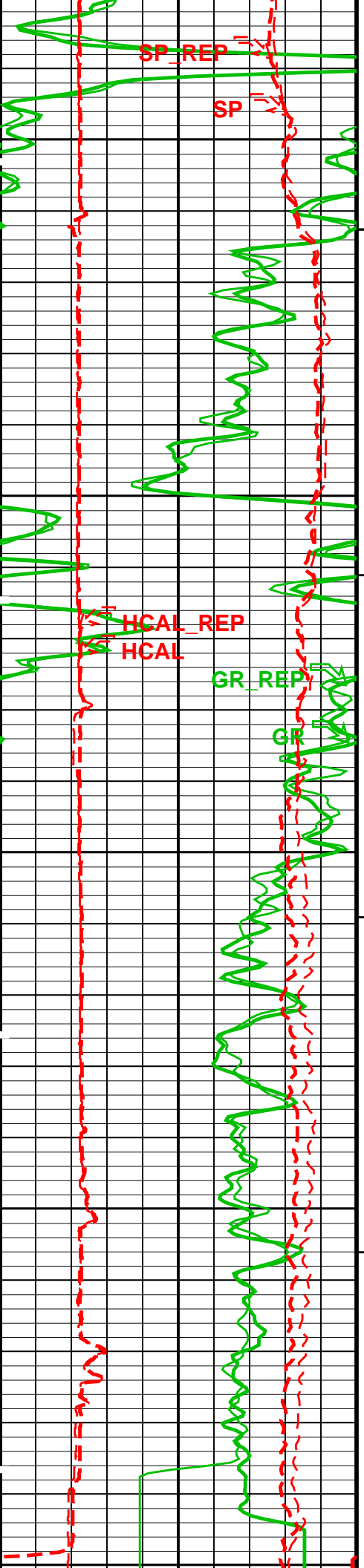
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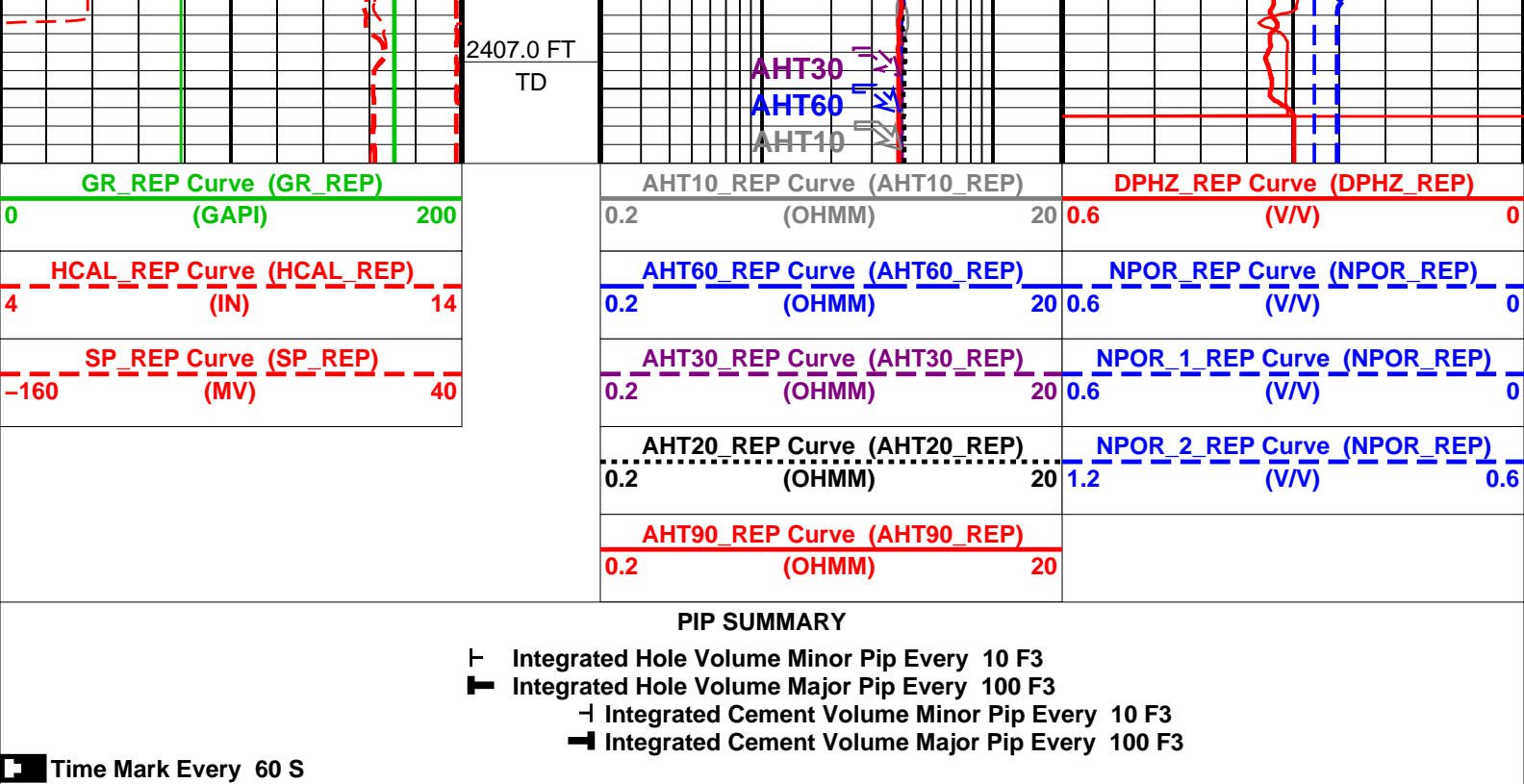
PIP SUMMARY

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MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
STI: Stuck Tool Indicator			
TDL	Total Depth – Logger	2407.00	FT
System and Miscellaneous			
BS	Bit Size	6.250	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	9.00	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	25.00	FT
MST	Mud Sample Temperature	59.99	DEGF
RMFS	Resistivity of Mud Filtrate Sample	0.1650	OHMM
TD	Total Depth	2407	FT

Format: COMBO_LOG_REP Vertical Scale: 5" per 100' Graphics File Created: 28-Dec-2010 23:45

OP System Version: 18C0-147

HILTB-CTS 18C0-147

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_006PUP	FN:5	PRODUCER	28-Dec-2010 23:44	2430.0 FT	2056.0 FT
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_007LUP	FN:6	PRODUCER	28-Dec-2010 23:45
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Company: **Noble Energy Inc**

Schlumberger

Well: **Suman-George Trusts 14-26**

Field: **Duke**

County: **Yuma**

State: **Colorado**

Platform Express

Triple Combo