

[illegible]



REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
1. This is the first run in hole.	
2. Tool run as per tool sketch.	
3. Limestone matrix 2.71 g/cc.	
4. Rmf and Rmc calculated using GEN-7	

Crew: Jay Musgrave

STOP

RUN 2

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

LEH-QT		40.6
LEH-QT		

HGNS HTEM  
HMCA  
TelStatus  
CTEM

## HGNS Gamm

HILTB-CTS

HGNSC-B

HMCA

TCC-B  
LICHI

AGNH  
NLS-K

NSR-F

HACCZ 452

HCNT

HGR  
LIBCOHRC  
LPM

HRMS-B  
HRGD-B

GLS-VJ 1827

## MCFL Device

HILT Nucl. LS 42767

HIL T Nucl. SS 42767  
HIL T Nucl. BS 42767

ALIT Nucl. BS 42767  
ALIT-H

AHIS-

AHRM-A

NPV-N

HGNS Neut  
HGNS Neut

HGNS sens

HRCC cart

MCFL  
HILT cali  
HRDD-LS  
HRDD-SS  
HRDD-BS

37.6

36 9

31.1

30.6

282

242

188

18.3

17.9

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

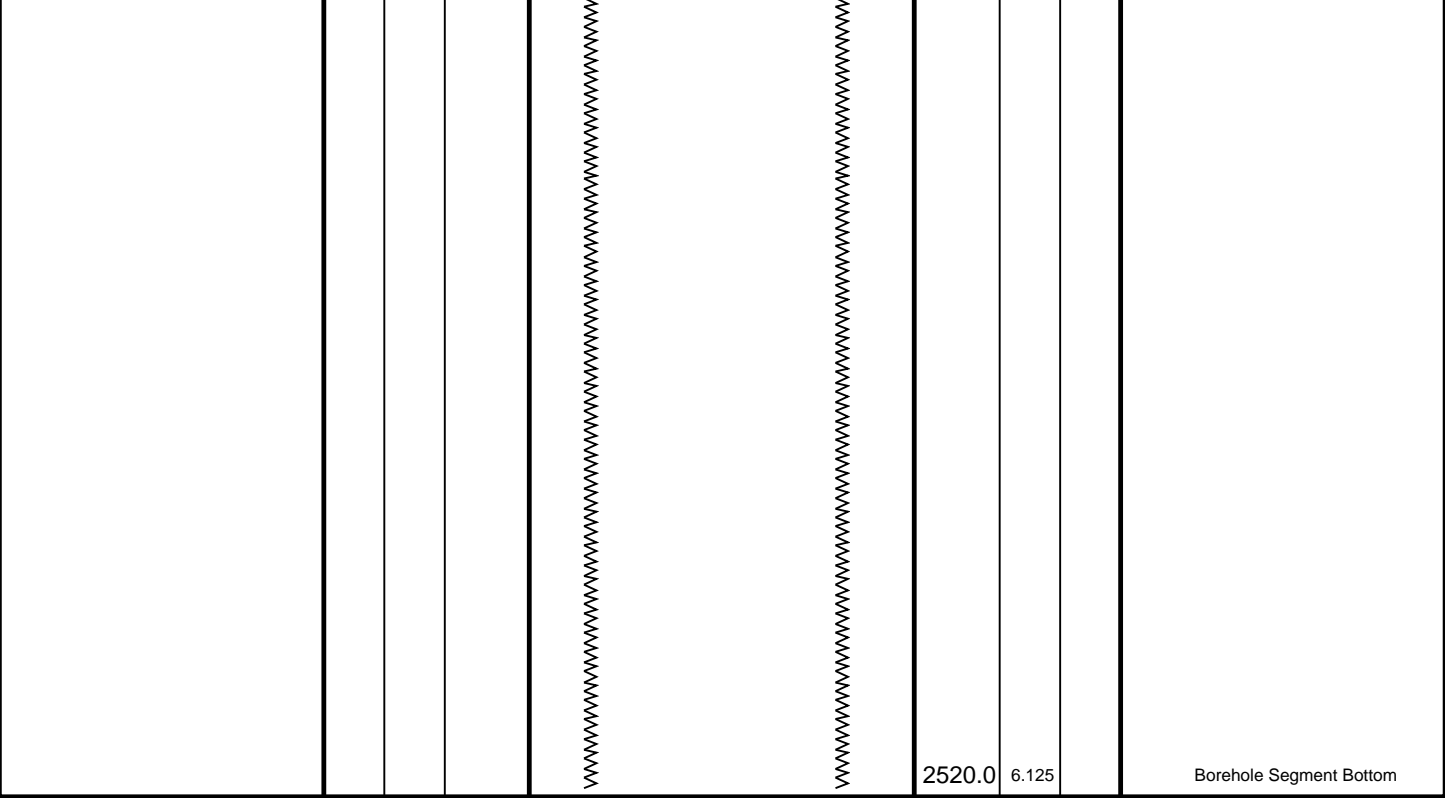
Casing Shoe  
Borehole Segment

0.0

7.000

479.0  
479.0

7.000  
6.125



2520.0

6.125

Borehole Segment Bottom

All depths are driller's depths.

Schlumberger

RESISTIVITY LINEAR 2" = 100'

MAXIS Field Log

Output DLIS Files

DEFAULT      AIT\_TLD\_MCFL\_CNL\_009LUP      FN:8      PRODUCER      15-Feb-2008 06:37      2538.0 FT      407.0 FT

Integrated Hole/Cement Volume Summary

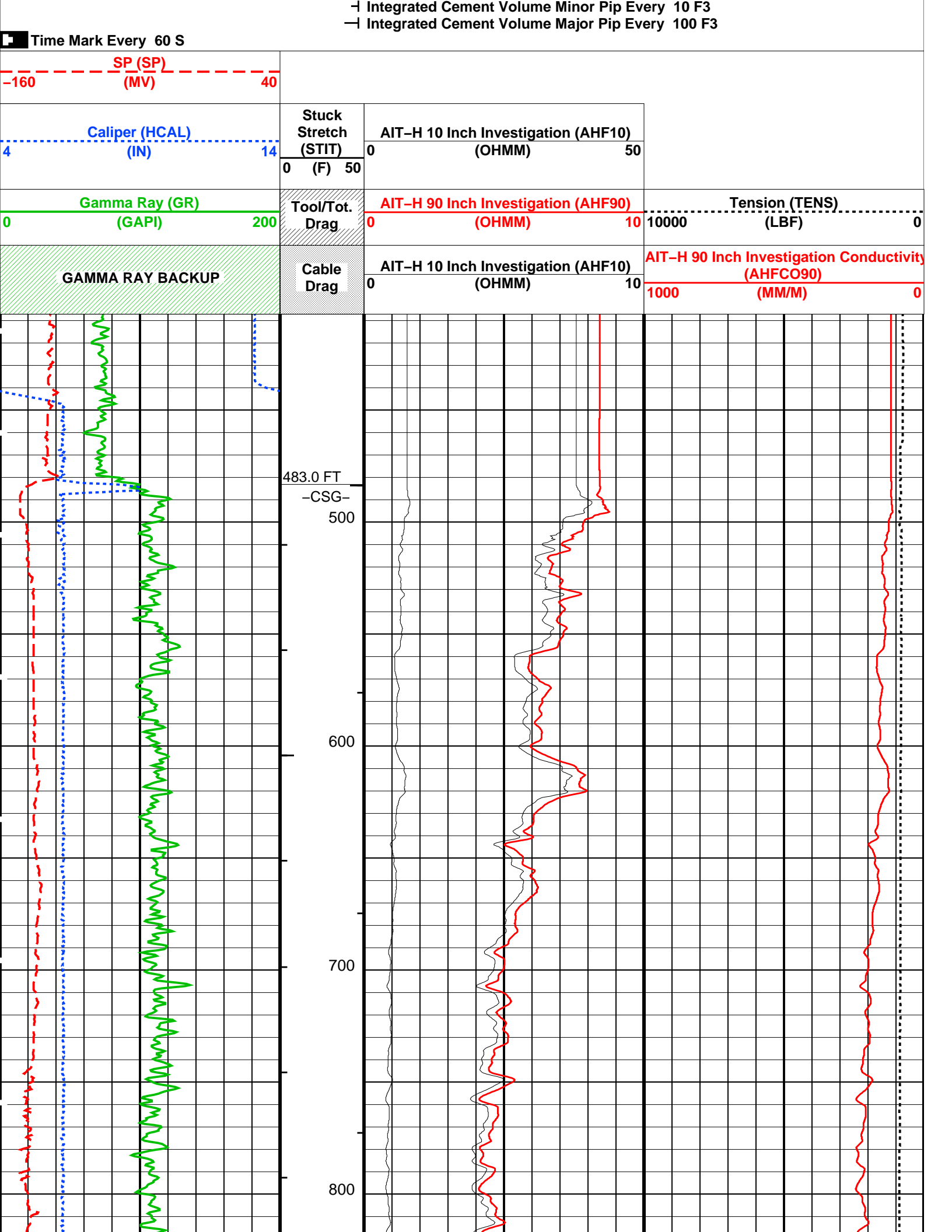
Hole Volume = 426.46 F3  
Cement Volume = 200.23 F3 (assuming 4.50 IN casing O.D.)  
Computed from 2531.0 FT to 483.0 FT using data channel(s) HCAL

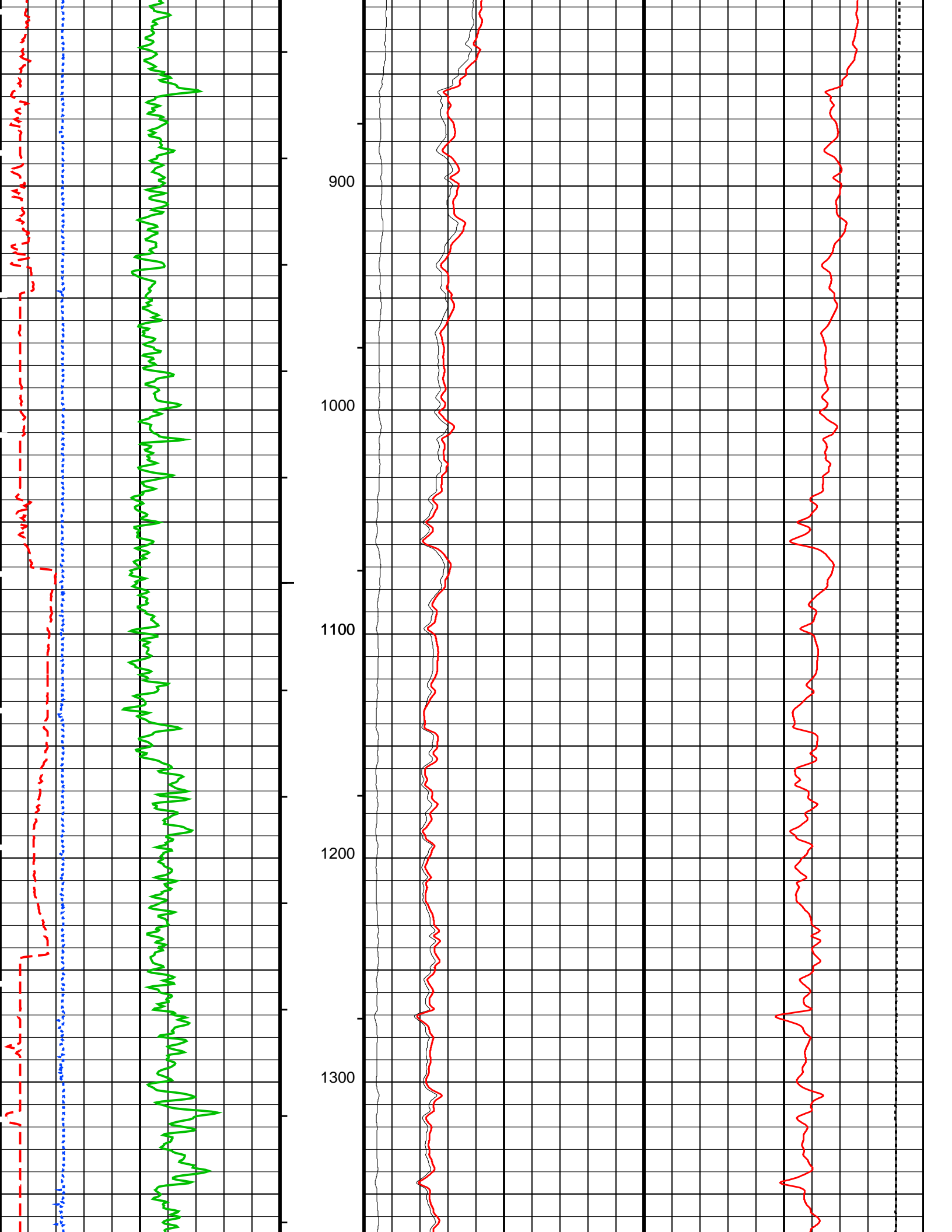
OP System Version: 15C0-309  
MCM

HILTB-CTS      SRPC-3497-NOV\_2007

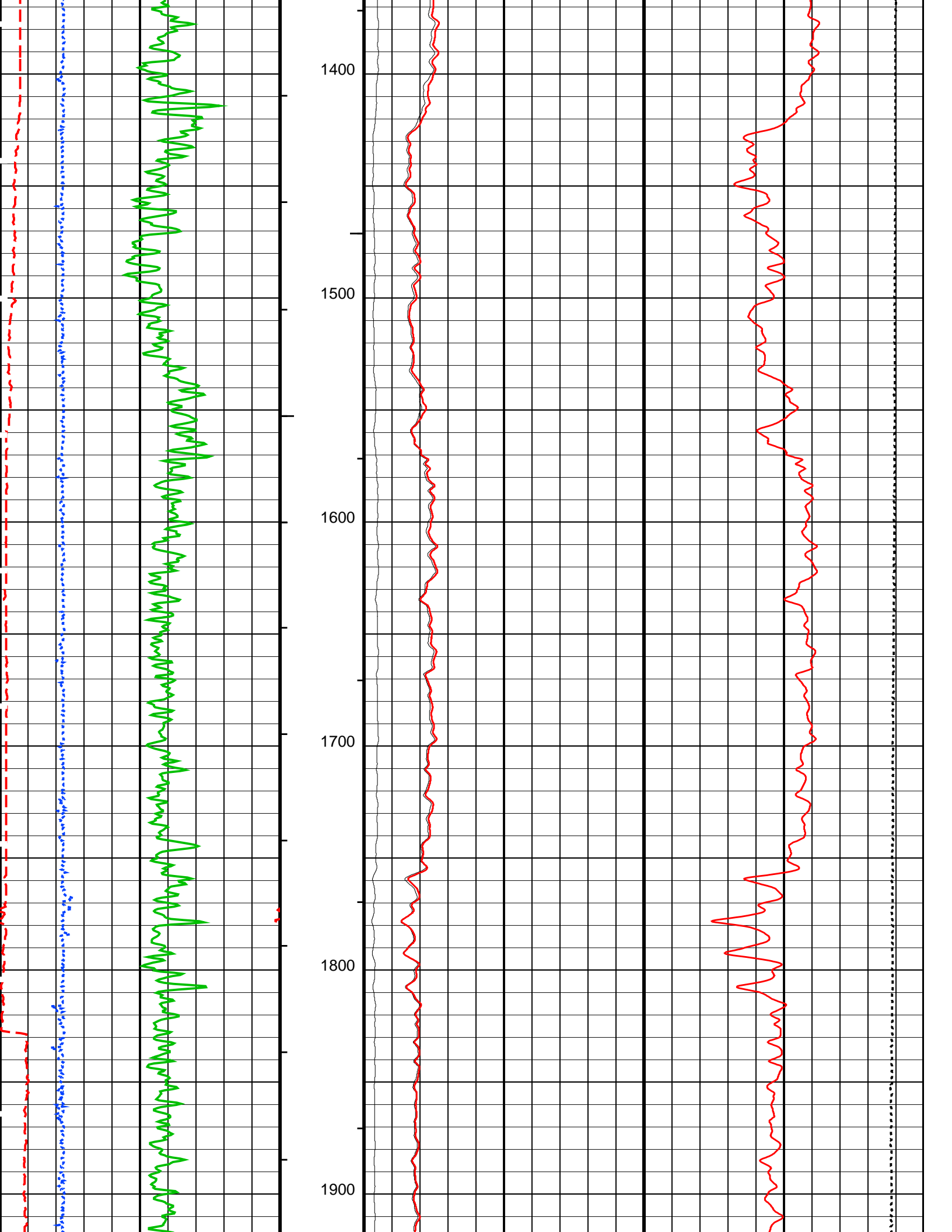
PIP SUMMARY

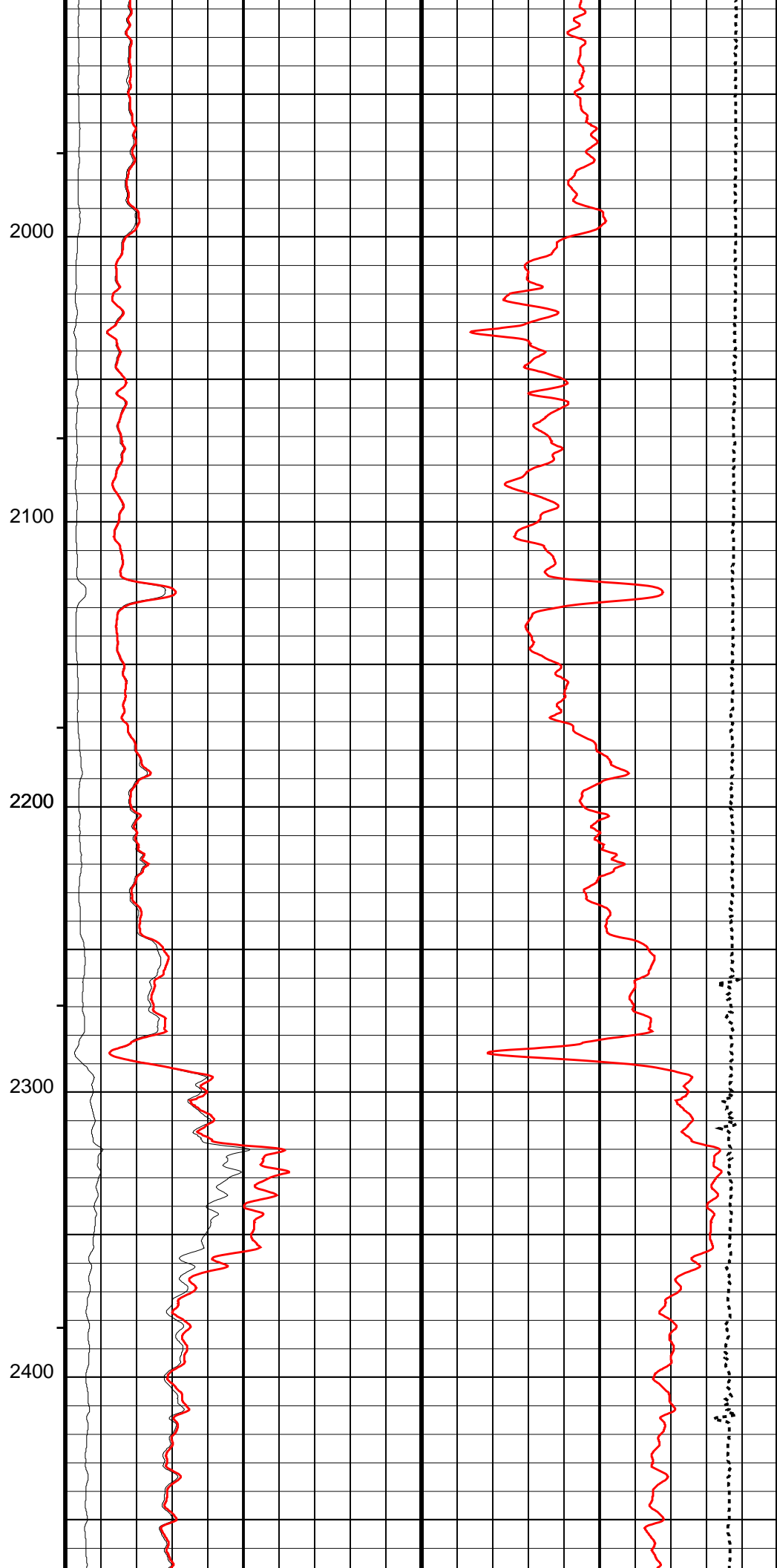
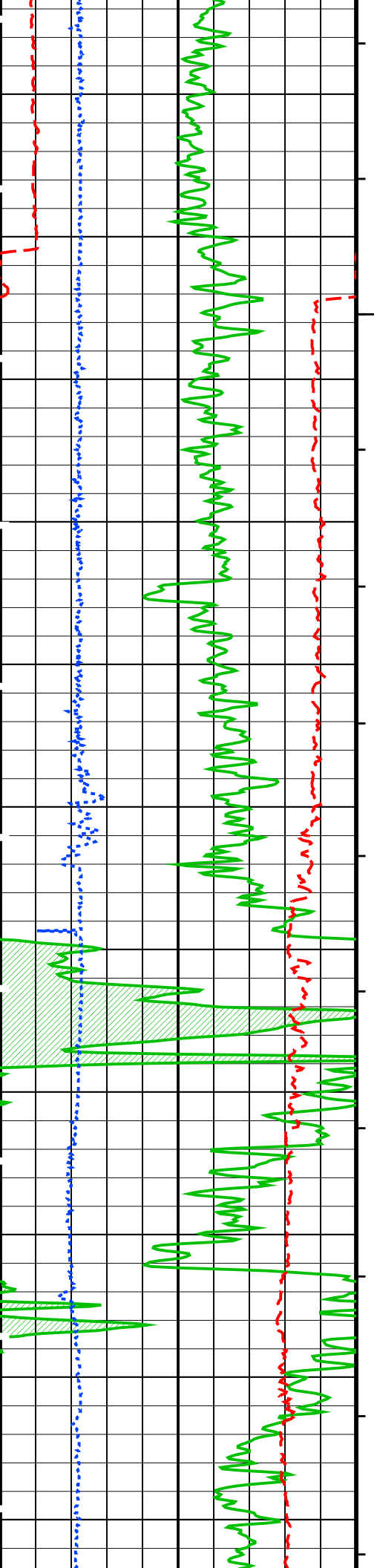
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3

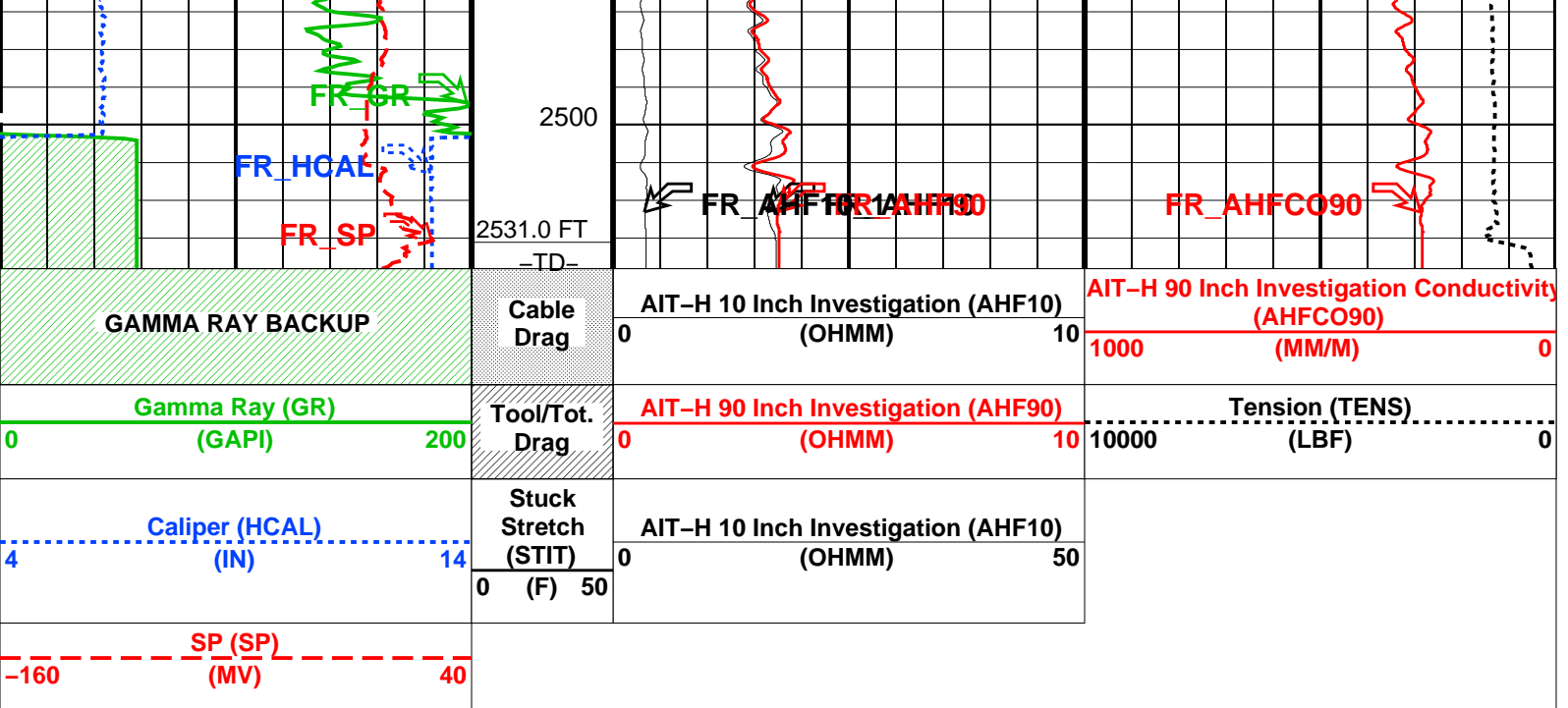












### PIP SUMMARY

- └ 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

AIT-H Answer Product Processing Summary. Data taken with Tool # 236 (AHTNO)

...Acquired data from HILT/HAIT

\*\*\*\*\* Borehole Correction \*\*\*\*\*

Effective Tool Standoff computed. Borehole diameter and mud res. taken as input (see GCSE and GRSE parameters)  
Tool is run in ECCENTERED mode with a tool stand-off of 0.13 IN. Bit Size is 6.13 IN.

\*\*\*\*\* Input Selections to AIT-H Answer Product Processing \*\*\*\*\*

Caliper (GCSE): HCAL Mud Resistivity (GRSE): AHMF Temperature (GTSE): HTEM Porosity (FPHI): DPHZ

\*\*\*\*\* Other Parameters used by AIT-H Answer Product Processing \*\*\*\*\*

Form Factor Exponent (FEXP) 2.000 Form Factor Numerator (FNUM) 1.000  
Mud Filtrate Sample Resistivity (RMFS) 0.729 OHMM Mud Filtrate Sample Temperature (MFST) 54.000 DEGF  
Resitivity Connate Water (RW) 1.000 OHMM

\*\*\*\*\* AIT-H Answer Product Processing Control Parameters \*\*\*\*\*

(AHAPL): 3\_BholeCorr\_BasicLogs\_Radial\_Processing

(AHBHM): 2\_ComputeStandoff (AHBLM): 6\_One\_Two\_and\_Four (AHRPM): 6\_One\_Two\_and\_Four

### 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
BHT	Bottom Hole Temperature (used in calculations)	99 DEGF
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG

GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	68	DEGF
SPNV	SP Next Value	0	MV
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	99	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	HCAL	
SHT	Surface Hole Temperature	68	DEGF
PERT: Preliminary Evaluation – Real Time			
BHT	Bottom Hole Temperature (used in calculations)	99	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	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	2520.00	FT
TDL	Total Depth – Logger	2531.00	FT
System and Miscellaneous			
BS	Bit Size	6.125	IN
DFD	Drilling Fluid Density	9.10	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	54.00	DEGF
TD	Total Depth	2531	FT

Format: GRES\_S2    Vertical Scale: 2" per 100'    Graphics File Created: 15-Feb-2008 06:37

## OP System Version: 15C0-309

MCM

HILTB-CTS    SRPC-3497-NOV\_2007

### Output DLIS Files

DEFAULT    AIT\_TLD\_MCFL\_CNL\_009LUP    FN:8    PRODUCER    15-Feb-2008 06:37

**Schlumberger**

**MAIN RESISTIVITY LOG 5" = 100'**

MAXIS Field Log

### Output DLIS Files

DEFAULT    AIT\_TLD\_MCFL\_CNL\_009LUP    FN:8    PRODUCER    15-Feb-2008 06:37    2538.0 FT    407.0 FT

### Integrated Hole/Cement Volume Summary

Hole Volume = 426.46 F3

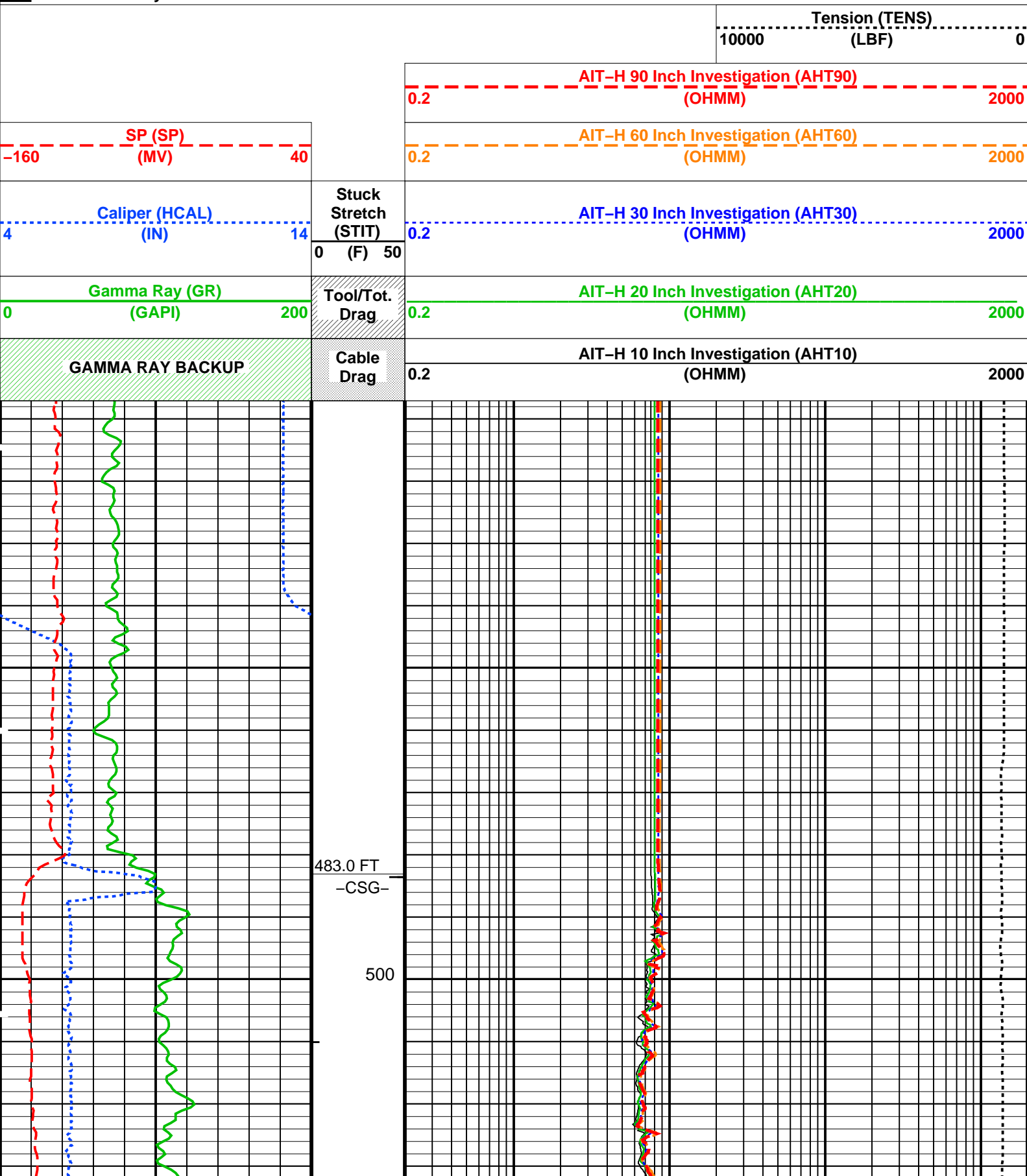
Cement Volume = 200.23 F3 (assuming 4.50 IN casing O.D.)

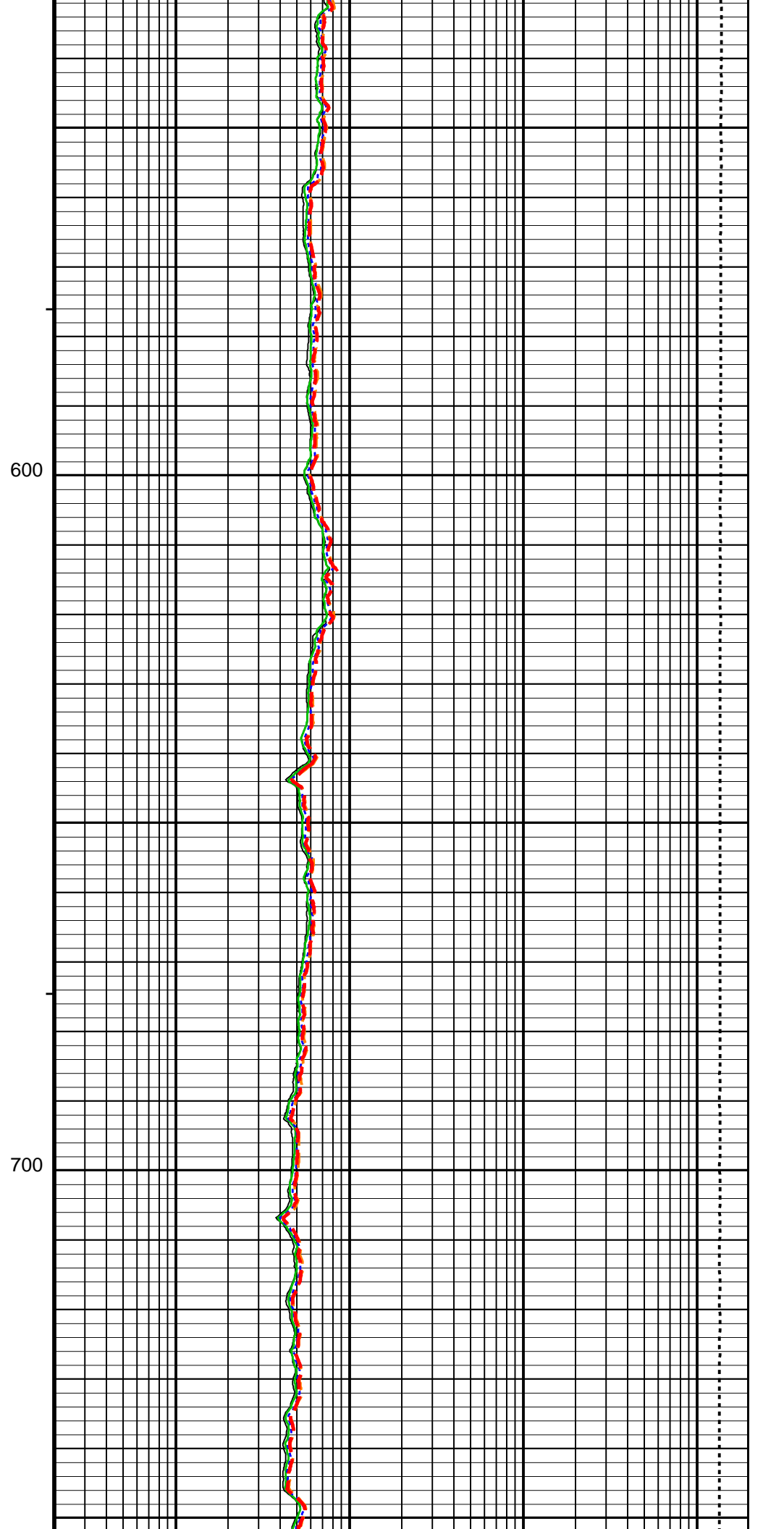
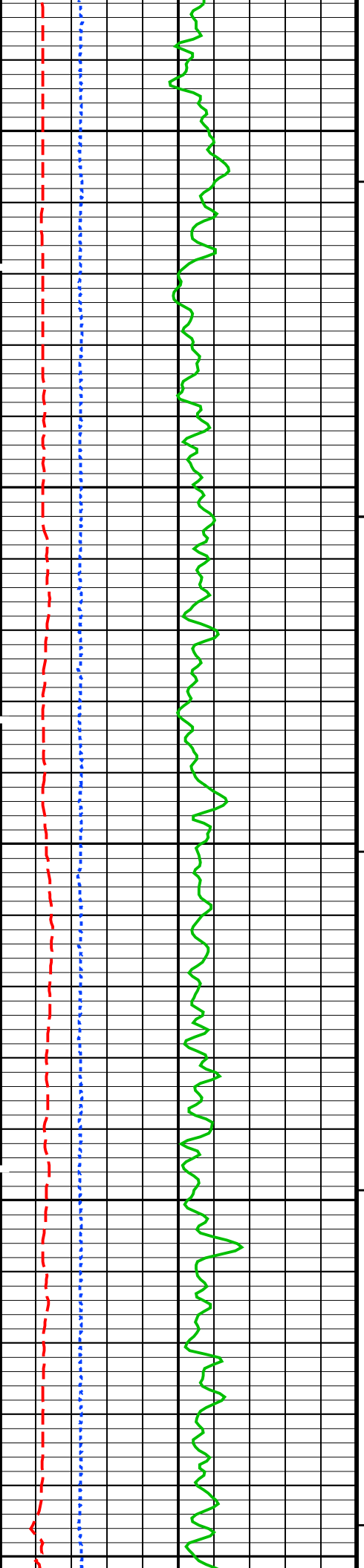
Computed from 2531.0 FT to 483.0 FT using data channel(s) HCAL

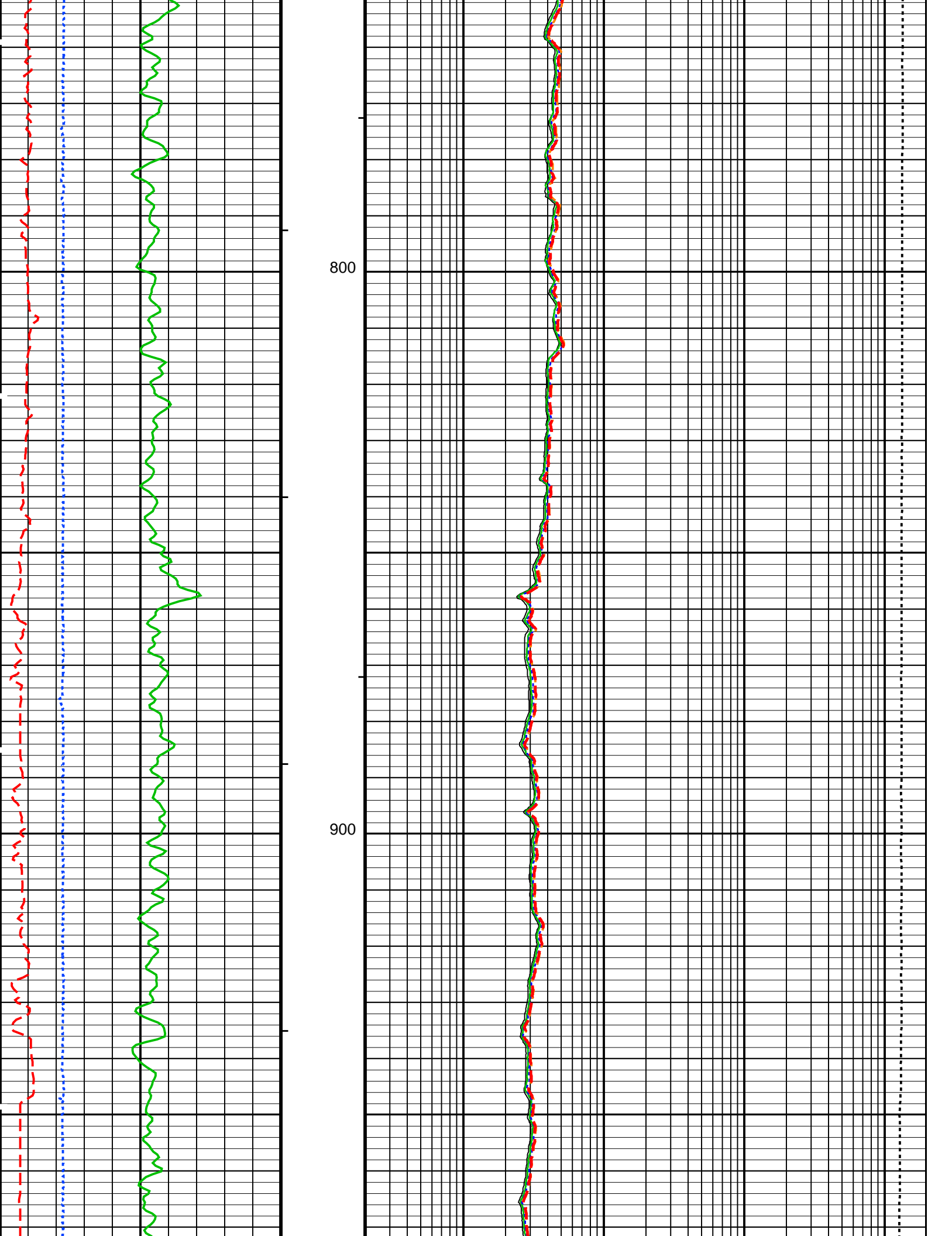
### PIP SUMMARY

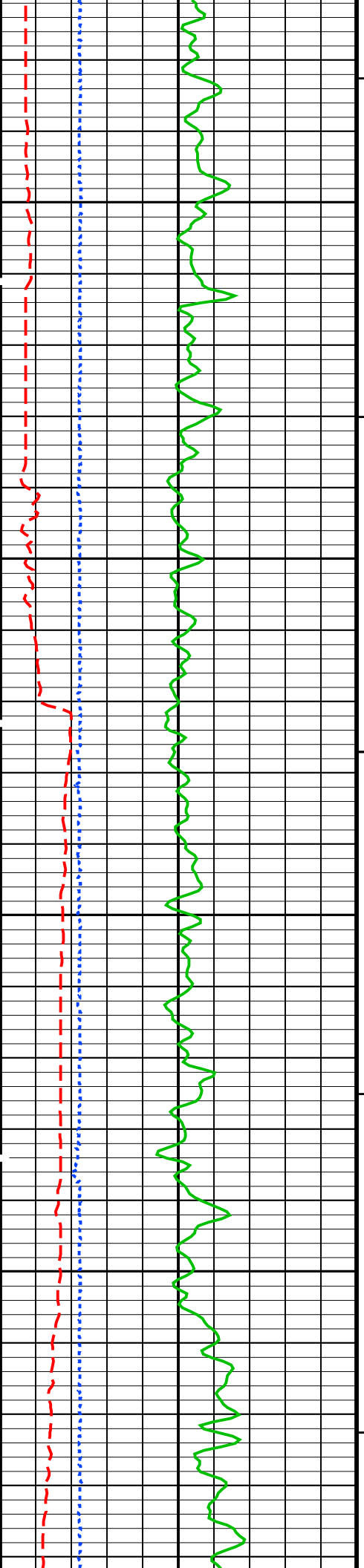
- ┌ Integrated Hole Volume Minor Pip Every 10 F3
- ┌ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S



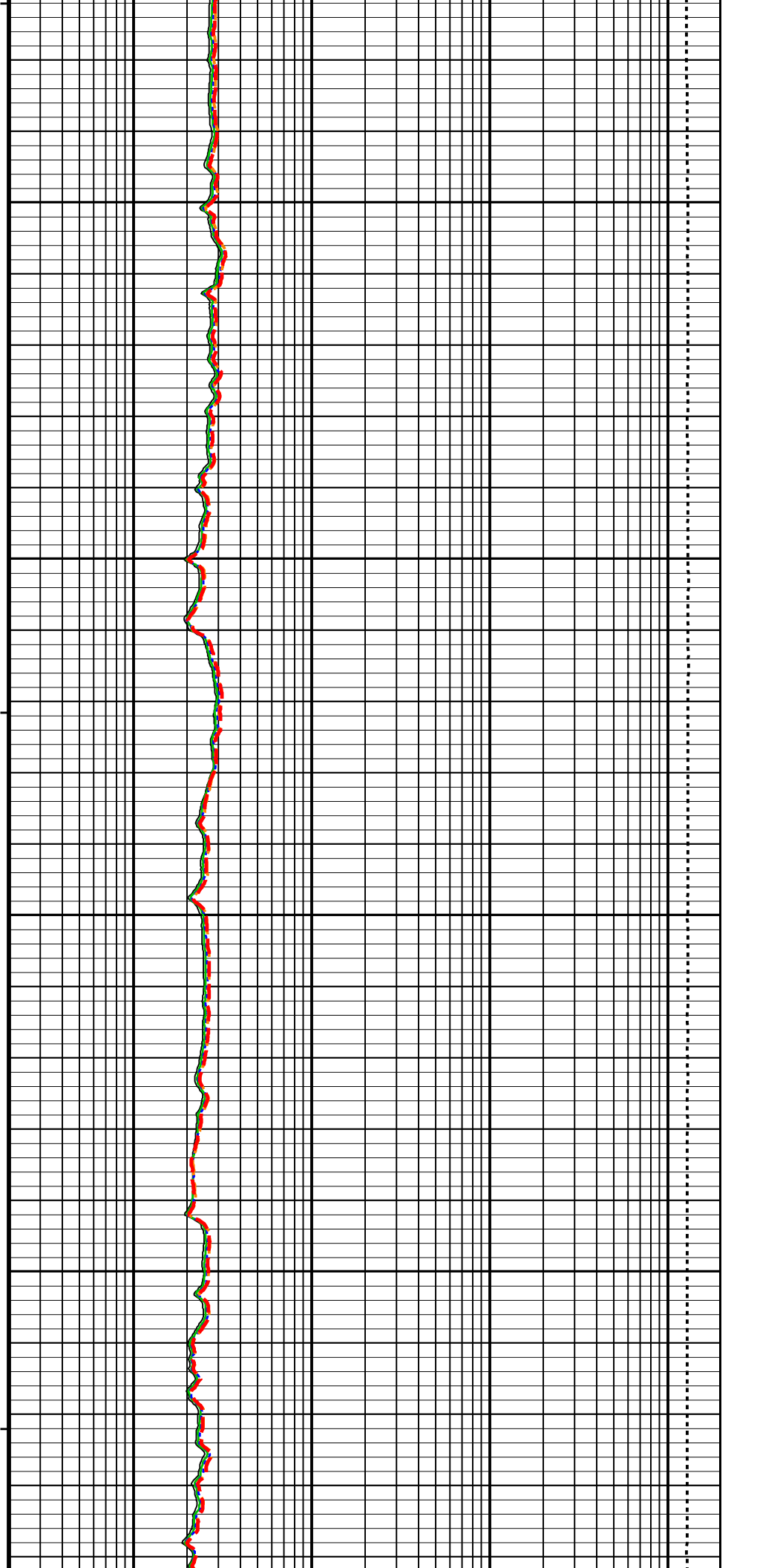




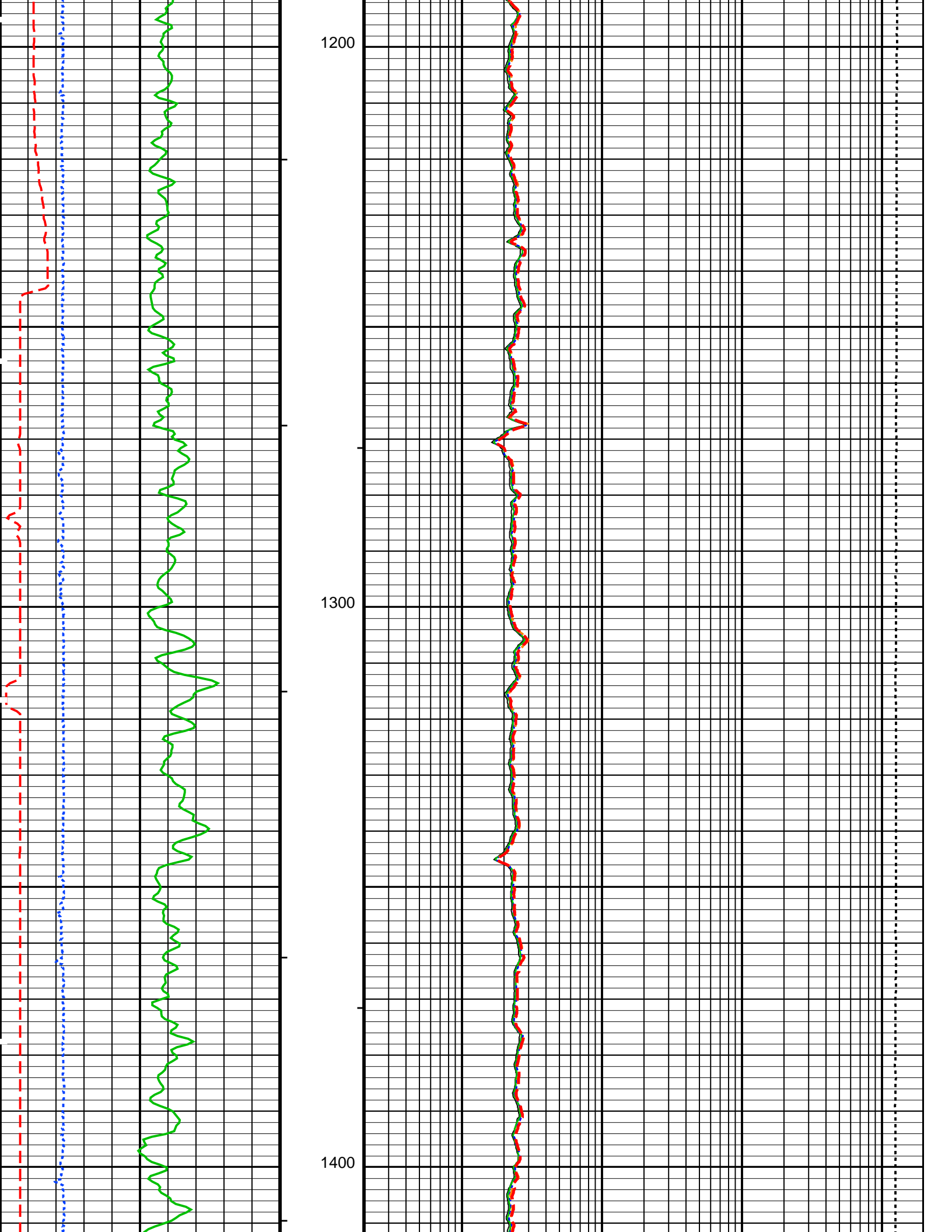


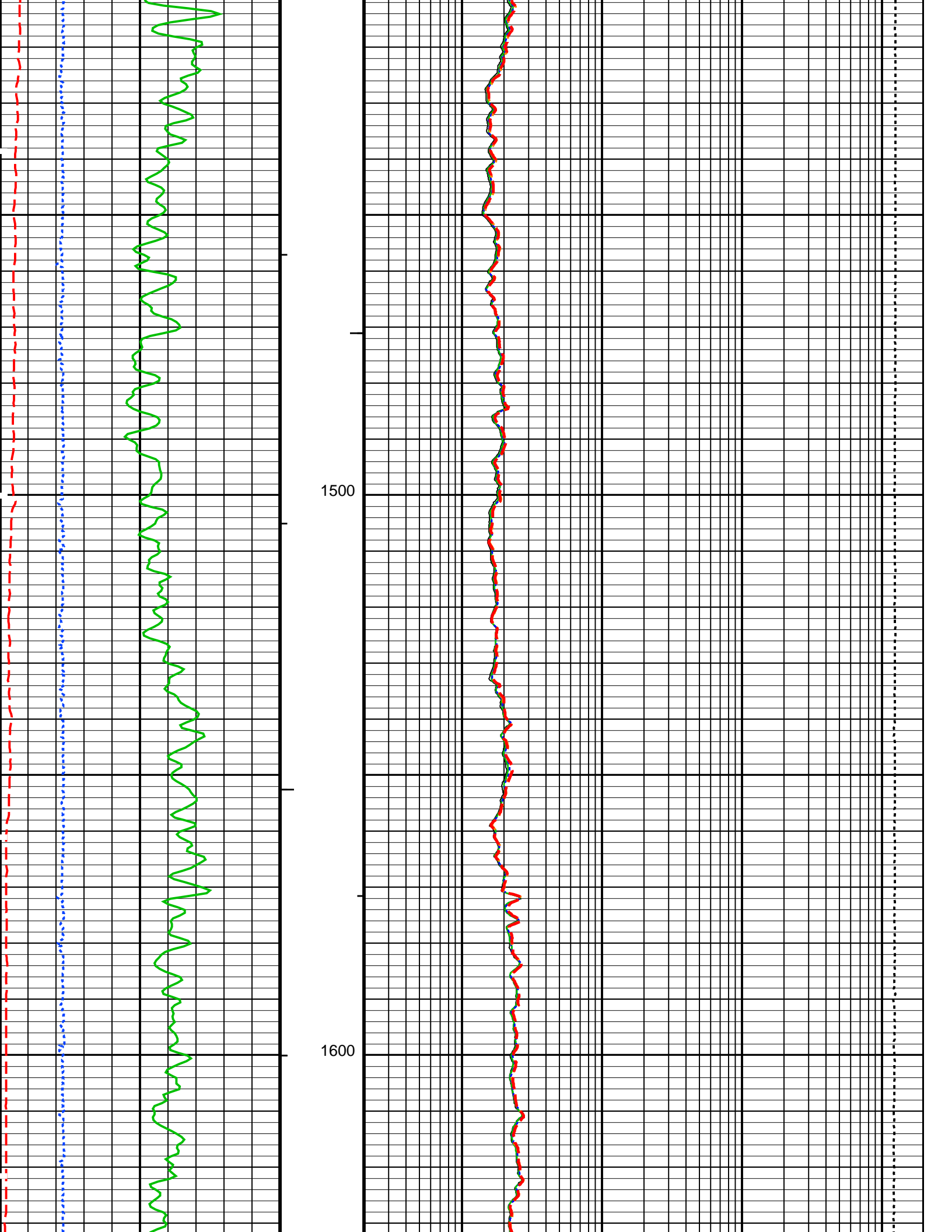
1000

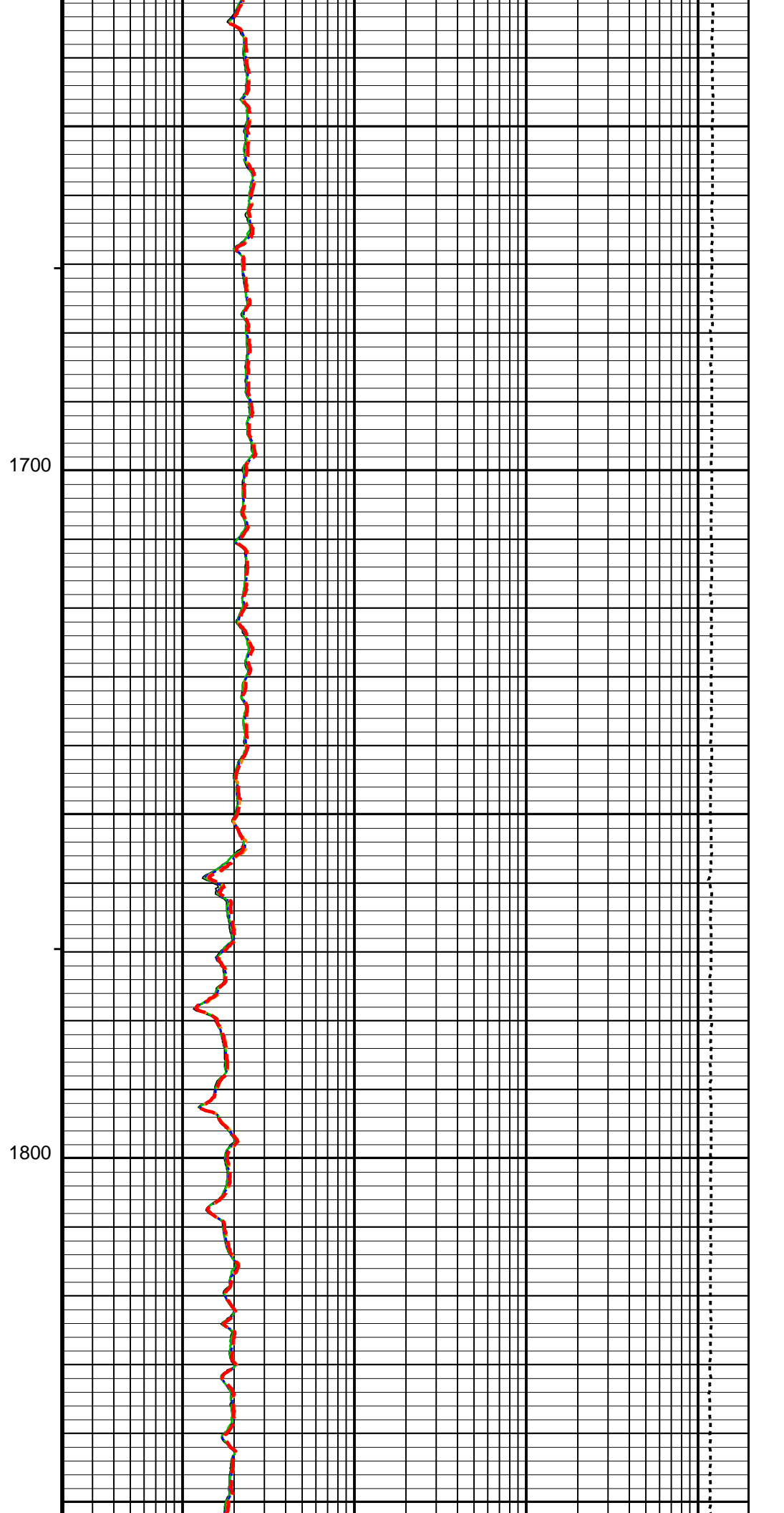
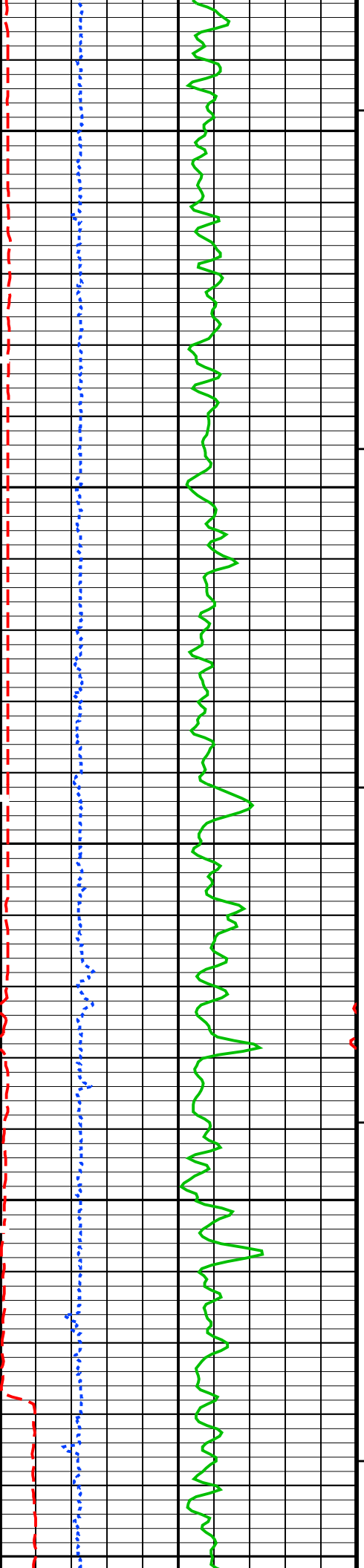
1100

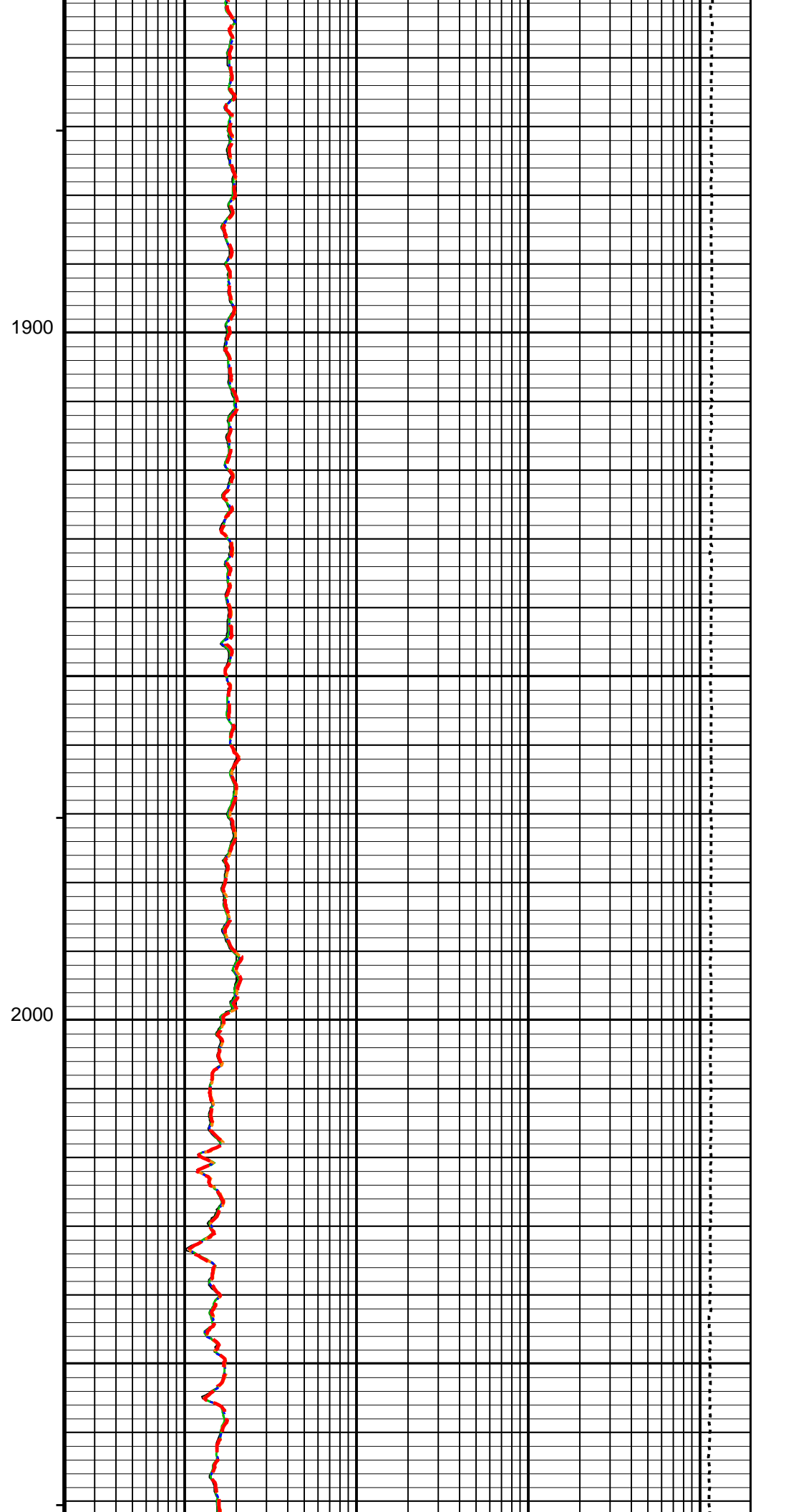
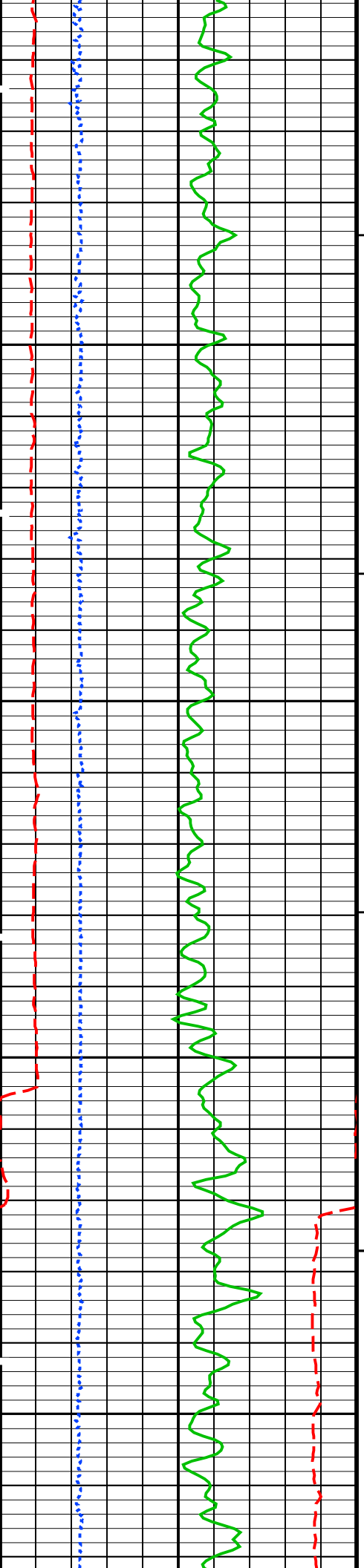


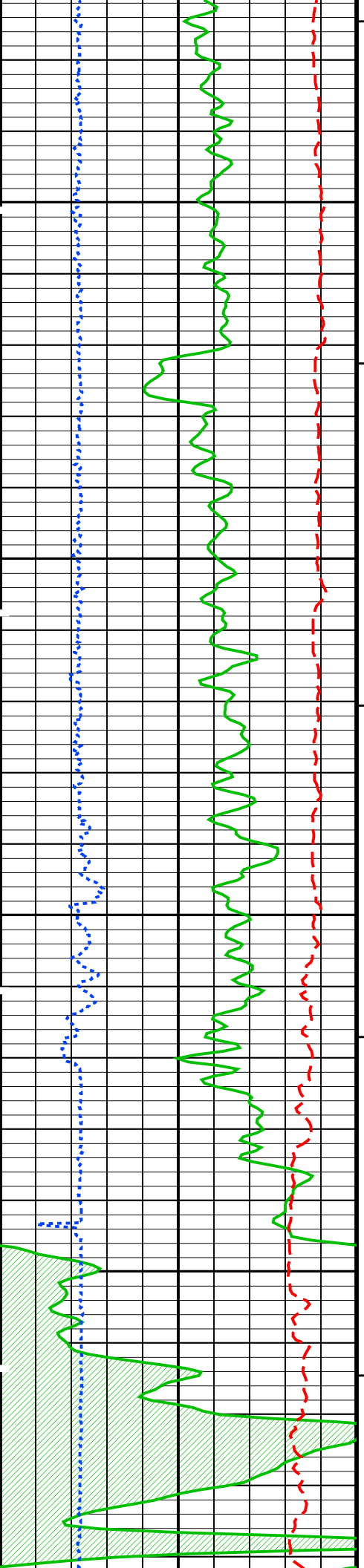






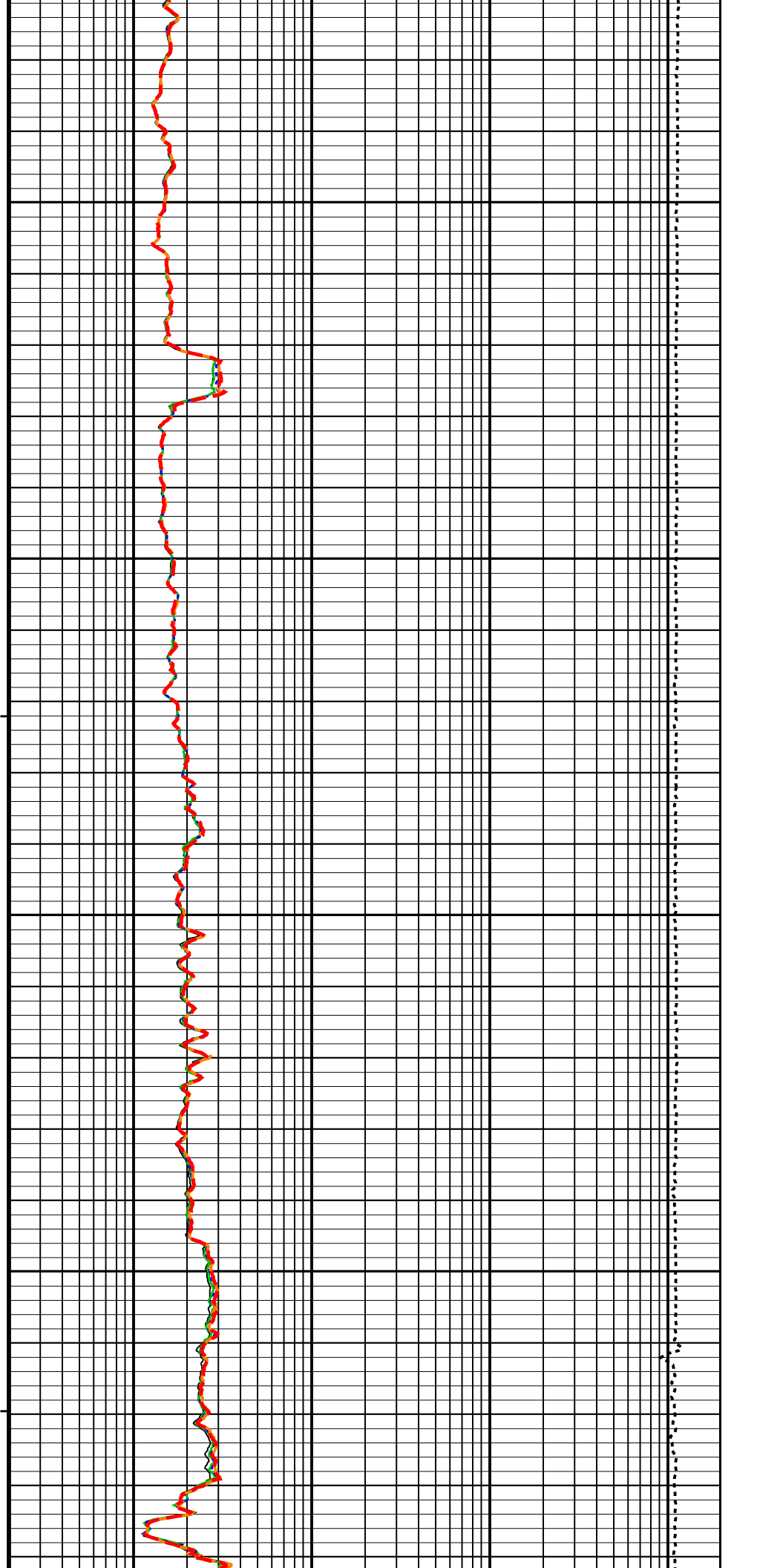


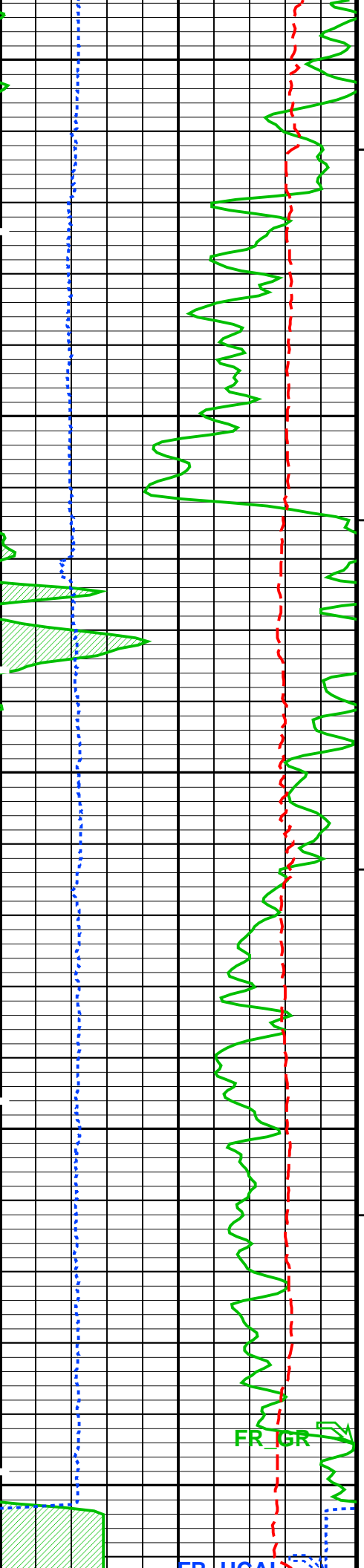




2100

2200

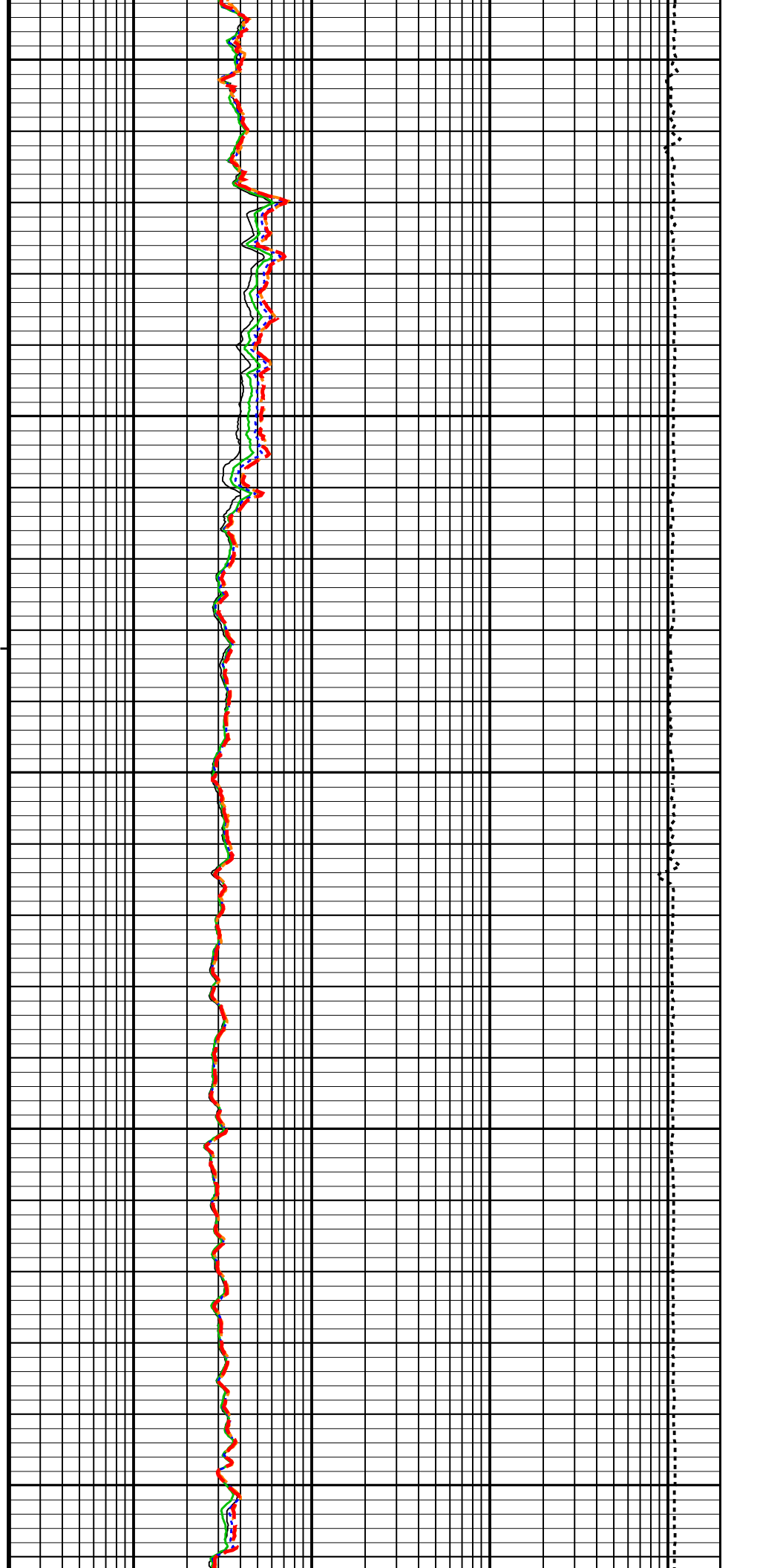


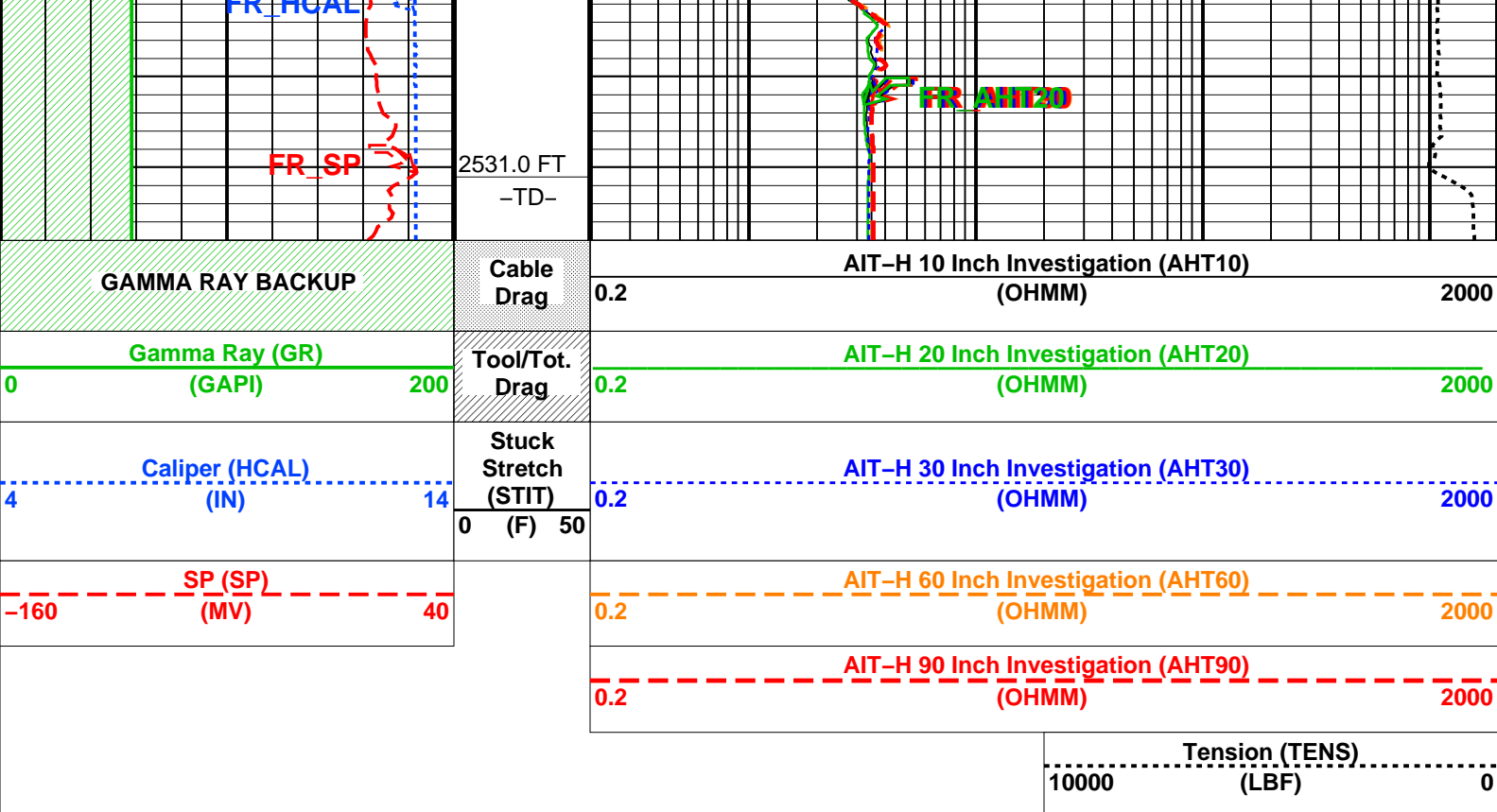


2300

2400

2500





#### 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

AIT-H Answer Product Processing Summary. Data taken with Tool # 236 (AHTNO)

...Acquired data from HILT/HAIT

\*\*\*\*\* Borehole Correction \*\*\*\*\*

Effective Tool Standoff computed. Borehole diameter and mud res. taken as input (see GCSE and GRSE parameters)  
Tool is run in ECCENTERED mode with a tool stand-off of 0.13 IN. Bit Size is 6.13 IN.

\*\*\*\*\* Input Selections to AIT-H Answer Product Processing \*\*\*\*\*

Caliper (GCSE): HCAL Mud Resistivity (GRSE): AHMF Temperature (GTSE): HTEM Porosity (FPHI): DPHZ

\*\*\*\*\* Other Parameters used by AIT-H Answer Product Processing \*\*\*\*\*

Form Factor Exponent (FEXP) 2.000 Form Factor Numerator (FNUM) 1.000  
Mud Filtrate Sample Resistivity (RMFS) 0.729 OHMM Mud Filtrate Sample Temperature (MFST) 54.000 DEGF  
Resitivity Connate Water (RW) 1.000 OHMM

\*\*\*\*\* AIT-H Answer Product Processing Control Parameters \*\*\*\*\*

(AHAPL): 3\_BholeCorr\_BasicLogs\_Radial\_Processing

(AHBHM): 2\_ComputeStandoff (AHBLM): 6\_One\_Two\_and\_Four (AHRPM): 6\_One\_Two\_and\_Four

#### 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
AHTPSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20

AIHRSV	Array Induction Response Set version for Two ft Resolution	41.70.24.20	
BHT	Bottom Hole Temperature (used in calculations)	99	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	68	DEGF
SPNV	SP Next Value	0	MV
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	99	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	HCAL	
SHT	Surface Hole Temperature	68	DEGF
PERT: Preliminary Evaluation – Real Time			
BHT	Bottom Hole Temperature (used in calculations)	99	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	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	2520.00	FT
TDL	Total Depth – Logger	2531.00	FT
System and Miscellaneous			
BS	Bit Size	6.125	IN
DFD	Drilling Fluid Density	9.10	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	54.00	DEGF
TD	Total Depth	2531	FT

Format: GRES\_S5      Vertical Scale: 5" per 100'      Graphics File Created: 15-Feb-2008 06:37

## OP System Version: 15C0-309

MCM

HILTB-CTS      SRPC-3497-NOV\_2007

## Output DLIS Files

DEFAULT      AIT\_TLD\_MCFL\_CNL\_009LUP      FN:8      PRODUCER      15-Feb-2008 06:37

**Schlumberger**

## REPEAT ANALYSIS

MAXIS Field Log

## Input DLIS Files

DEFAULT      AIT\_TLD\_MCFL\_CNL\_006LUP      FN:5      PRODUCER      15-Feb-2008 06:29      2538.0 FT      2177.0 FT

## Output DLIS Files

DEFAULT      AIT TLD MCFL CNL 009LUP      FN:8      PRODUCER      15-Feb-2008 06:37



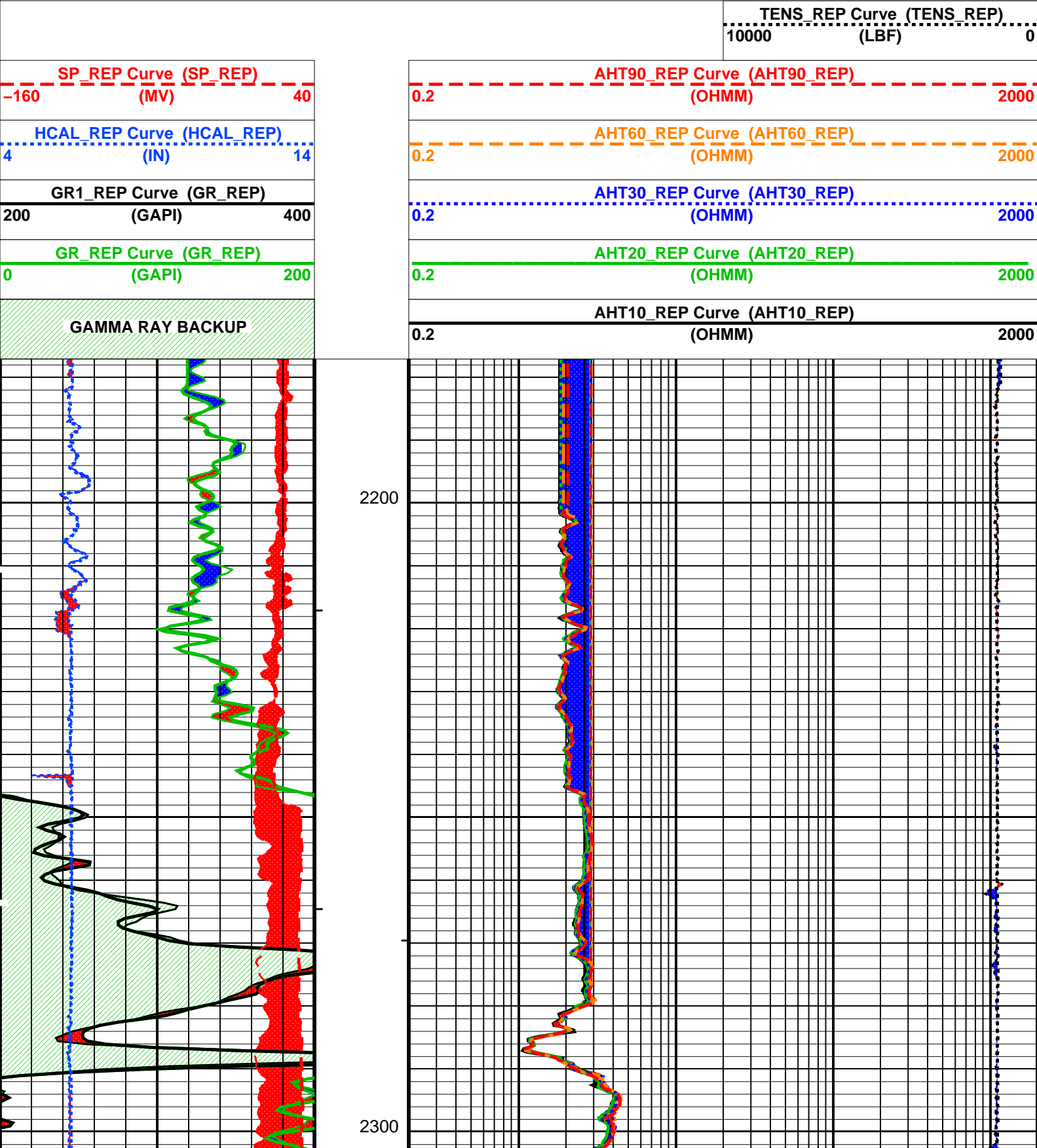
OP System Version: 15C0-309  
MCM

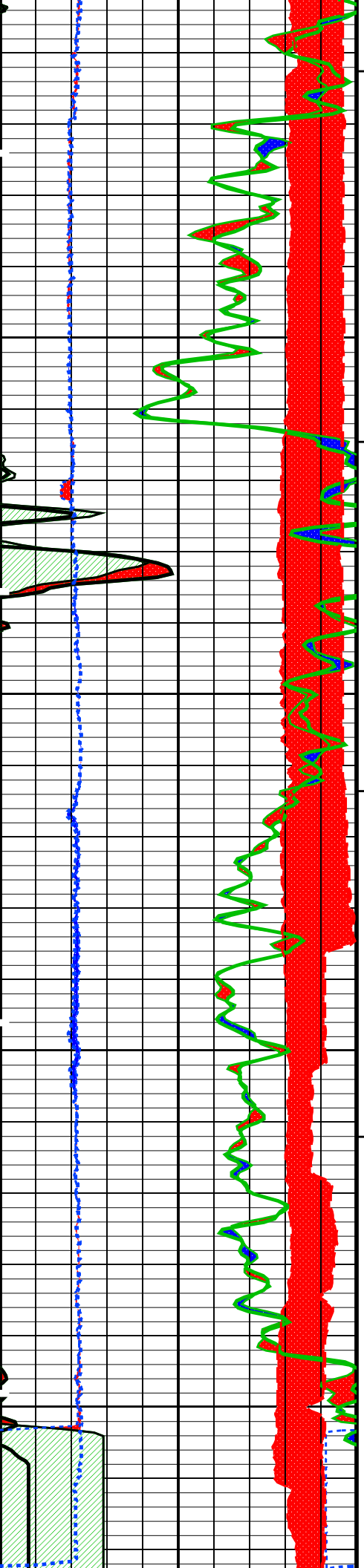
HILTB-CTS      SRPC-3497-NOV\_2007

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

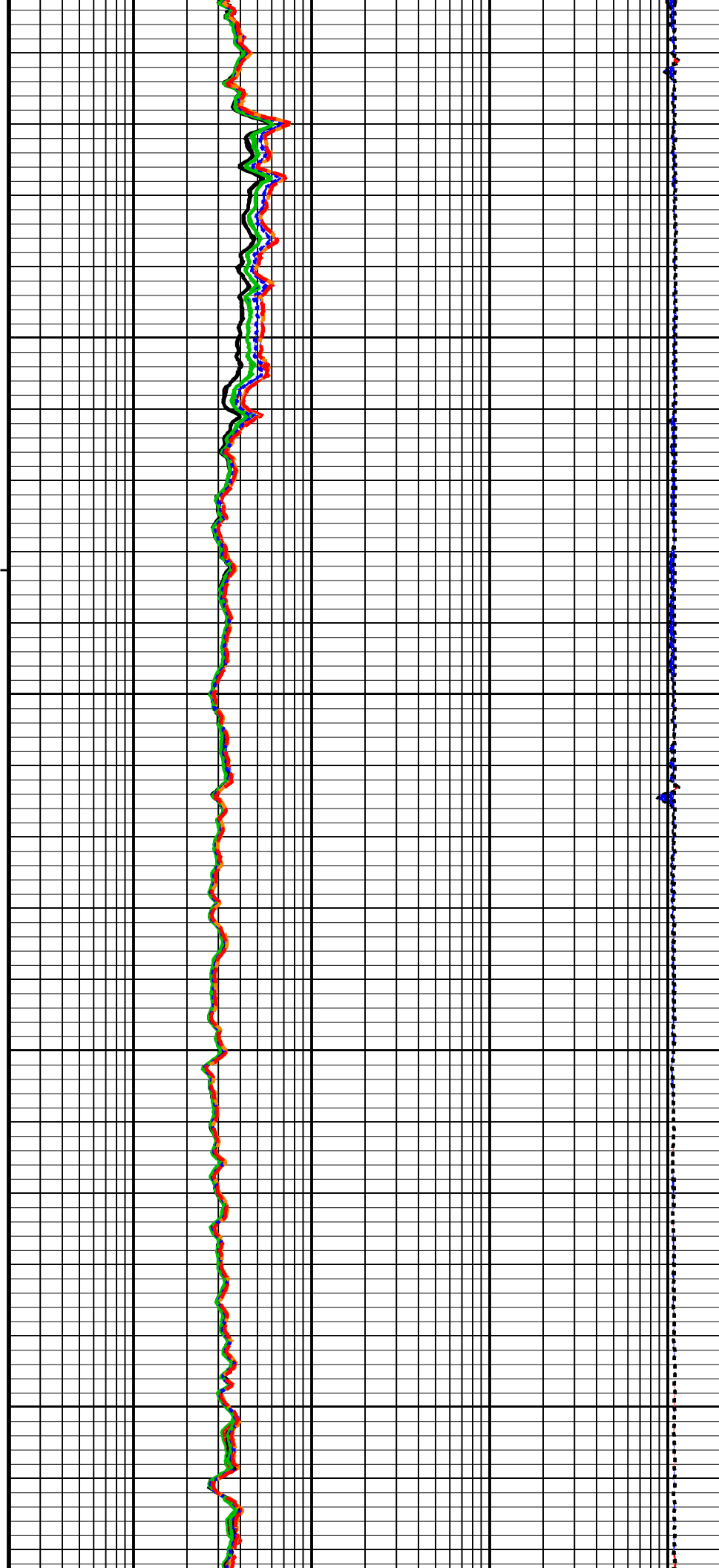
Time Mark Every 60 S

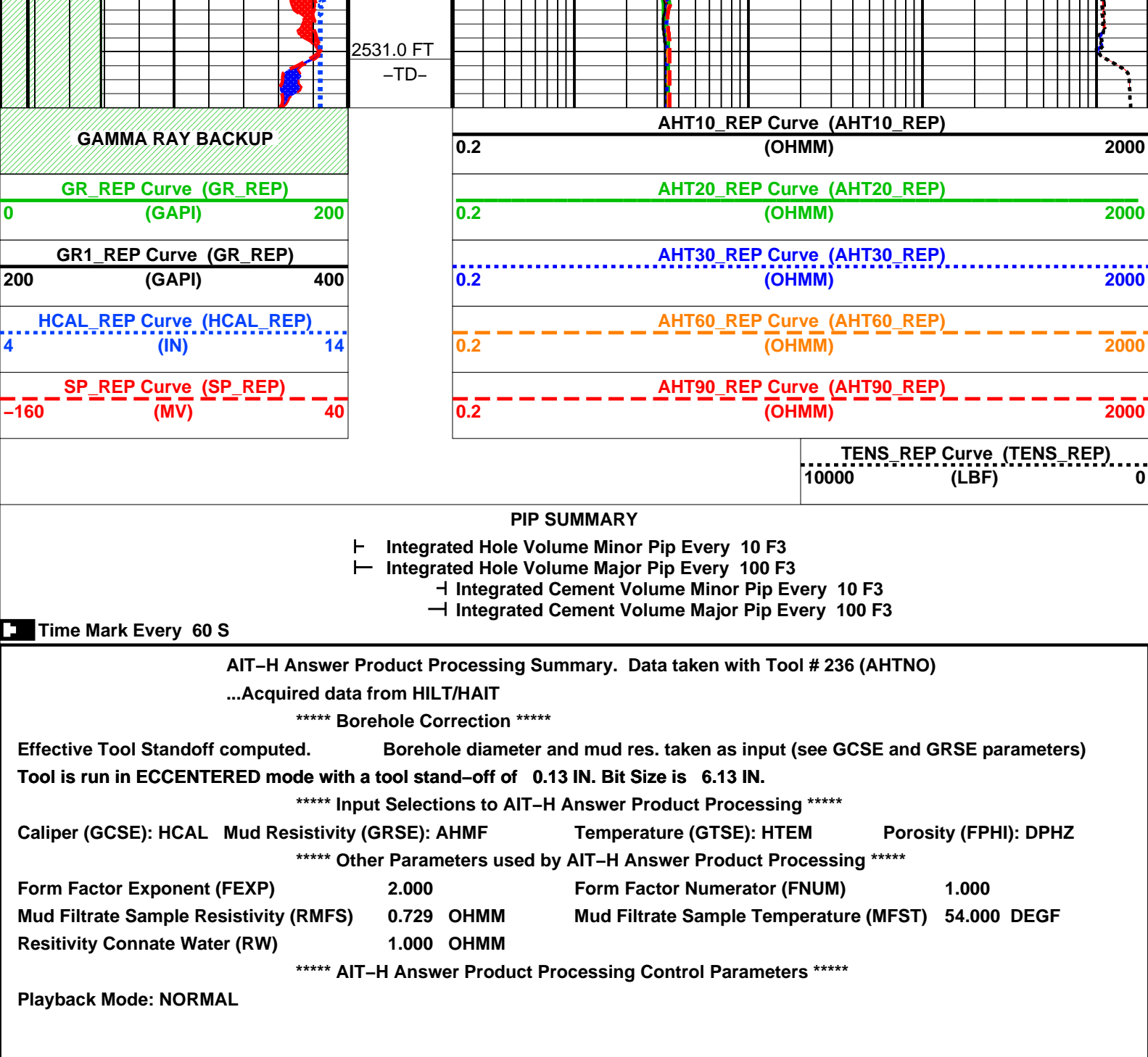




2400

2500





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 Code	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
BHT	Bottom Hole Temperature (used in calculations)	99 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	AHT10_REP

GRSE	Generalized Mud Resistivity Selection	AITH_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM	68	DEGF
SHT	Surface Hole Temperature			
SPNV	SP Next Value		0	MV
FEQL: Formation Evaluation Quick Look				
FEXP	Form Factor Exponent		2	
FNUM	Form Factor Numerator		1	
HOLEV: Integrated Hole/Cement Volume				
BHT	Bottom Hole Temperature (used in calculations)		99	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	HCAL		
SHT	Surface Hole Temperature		68	DEGF
PERT: Preliminary Evaluation – Real Time				
BHT	Bottom Hole Temperature (used in calculations)		99	DEGF
FEXP	Form Factor Exponent		2	
FNUM	Form Factor Numerator		1	
GCSE	Generalized Caliper Selection	HCAL		
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM		
SHT	Surface Hole Temperature		68	DEGF
System and Miscellaneous				
BS	Bit Size		6.125	IN
DFD	Drilling Fluid Density		9.10	LB/G
DORL	Depth Offset for Repeat Analysis		0.0	FT
FLEV	Fluid Level		-50000.00	FT
MST	Mud Sample Temperature		54.00	DEGF
TD	Total Depth		2531	FT

Format: GRES\_S5\_REP    Vertical Scale: 5" per 100'    Graphics File Created: 15-Feb-2008 06:37

## OP System Version: 15C0-309

MCM

HILTB-CTS    SRPC-3497-NOV\_2007

### Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_006LUP	FN:5	PRODUCER	15-Feb-2008 06:29	2538.0 FT	2177.0 FT
---------	-------------------------	------	----------	-------------------	-----------	-----------

### Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_009LUP	FN:8	PRODUCER	15-Feb-2008 06:37
---------	-------------------------	------	----------	-------------------

**Schlumberger**

**BEFORE CALIBRATIONS**

MAXIS Field Log

#### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
-------------	---------	--------	--------	-------	--------	-------	-------

High resolution Integrated Logging Tool-CTS Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase

Master: 6-Feb-2008 15:04    Before: 14-Feb-2008 10:54

Thru Cal Magnitude – 0	0	0.6011	0.6017	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.235	1.236	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6142	0.6147	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.6942	0.6949	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.295	1.297	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.886	1.888	N/A	N/A	N/A	V

Thru Cal Magnitude – 5	0	1.885	1.887	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.885	1.887	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.361	1.363	N/A	N/A	N/A	V
Phase – 0	0	49.25	49.15	N/A	N/A	N/A	DEG
Phase – 1	0	48.13	48.03	N/A	N/A	N/A	DEG
Phase – 2	0	44.38	44.29	N/A	N/A	N/A	DEG
Phase – 3	0	43.60	43.51	N/A	N/A	N/A	DEG
Phase – 4	0	37.34	37.27	N/A	N/A	N/A	DEG
Phase – 5	0	35.40	35.34	N/A	N/A	N/A	DEG
Phase – 6	0	35.41	35.34	N/A	N/A	N/A	DEG
Phase – 7	0	31.43	31.45	N/A	N/A	N/A	DEG

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Electronics Calibration Check – Auxilliary

Master: 6–Feb–2008 15:04 Before: 14–Feb–2008 10:54

Array Induction SPA Plus	990.5	992.0	992.4	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	–0.1180	–0.1095	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9150	0.9186	0.9190	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	–0.0001162	–0.0001083	N/A	N/A	N/A	V

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Test Loop Gain Correction

Master: 6–Feb–2008 15:04

Test Loop Gain Magnitude – 0	0	1.018	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 1	0	1.021	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 2	0	1.019	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 3	0	1.017	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 4	0	0.9998	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 5	0	0.9878	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 6	0	1.002	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 7	0	1.013	N/A	N/A	N/A	N/A	V
Phase – 0	0	0.4071	N/A	N/A	N/A	N/A	DEG
Phase – 1	0	0.4871	N/A	N/A	N/A	N/A	DEG
Phase – 2	0	0.002474	N/A	N/A	N/A	N/A	DEG
Phase – 3	0	0.07604	N/A	N/A	N/A	N/A	DEG
Phase – 4	0	–0.004811	N/A	N/A	N/A	N/A	DEG
Phase – 5	0	–0.1552	N/A	N/A	N/A	N/A	DEG
Phase – 6	0	0.3053	N/A	N/A	N/A	N/A	DEG
Phase – 7	0	–0.1082	N/A	N/A	N/A	N/A	DEG

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Sonde Error Correction

Master: 6–Feb–2008 15:04

R Sonde Error Correction – 0	0	–70.22	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	149.5	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	113.0	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	63.63	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	25.12	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	12.85	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	9.749	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	–0.6272	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	177.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	302.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	–1.628	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	61.66	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	–5.158	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	3.033	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	6.154	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	7.234	N/A	N/A	N/A	N/A	MM/M

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Mud Gain Correction

Master: 6–Feb–2008 15:04

Coarse – Mag, Real, Imag – 0	0	0.9858	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 1	0	0.9886	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 2	0	0.9886	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 0	0	0.9783	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 1	0	0.9787	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 2	0	0.9787	N/A	N/A	N/A	N/A

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Stab Measurement Summary

Before: 14–Feb–2008 11:02

BS Window Ratio	0.7357	N/A	0.7343	N/A	N/A	N/A
BS Window Sum	12570	N/A	12580	N/A	N/A	CPS
SS Window Ratio	0.4943	N/A	0.4974	N/A	N/A	N/A
SS Window Sum	10210	N/A	10200	N/A	N/A	CPS
LS Window Ratio	0.3018	N/A	0.3022	N/A	N/A	N/A
LS Window Sum	1212	N/A	1207	N/A	N/A	CPS

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Photo–multiplier High Voltages Calibrations

Before: 14–Feb–2008 11:02

BS PM High Voltage (Command)	1274	N/A	1278	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1558	N/A	1559	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1412	N/A	1414	N/A	N/A	N/A	V

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Crystal Quality Resolutions Calibration

High resolution Integrated Logging Tool-CTS / Equipment Identification			
Primary Equipment:			
Array Induction Tool – H	AIT – H		
Rm/SP Bottom Nose	AHRM – A		
Array Induction Sonde	AHIS – BA	236	
HILT high-Resolution Mechanical Sonde	HRMS – B		
HILT Rxo Gamma-ray Device	HRGD – B		
HILT Micro Cylindrically Focused Log Dev	MCFL –		
GR Logging Source	GLS – VJ	1827	
HILT High Res. Control Cartridge	HRCC – B		
Auxiliary Equipment:			

















High resolution Integrated Logging Tool–CTS Wellsite Calibration							
Electronics Calibration Check – Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.6011		0.6050	49.25		71.00
	Before	0.6017			49.15		
1	Master	1.235		1.270	48.13		70.00
	Before	1.236			48.03		
2	Master	0.6142		0.6230	44.38		66.00
	Before	0.6147			44.29		
3	Master	0.6942		0.7040	43.60		65.00
	Before	0.6949			43.51		
4	Master	1.295		1.337	37.34		59.00
	Before	1.297			37.27		
5	Master	1.886		1.955	35.40		57.00
	Before	1.888			35.34		
6	Master	1.885		1.955	35.41		57.00
	Before	1.887			35.34		
7	Master	1.361		1.415	31.43		53.00
	Before	1.363			31.45		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 6–Feb–2008 15:04				Before: 14–Feb–2008 10:54			

High resolution Integrated Logging Tool–CTS Wellsite Calibration							
Electronics Calibration Check – Auxilliary							
Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master			992.0	Master			-0.1180
Before			992.4	Before			-0.1095
	941.0 (Minimum)	990.5 (Nominal)	1040 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
Phase	Array Induction Temperature Plus V		Value	Phase	Array Induction Temperature Zero V		Value
Master			0.9186	Master			-0.0001162
Before			0.9190	Before			-0.0001083
	0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)		-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Master: 6–Feb–2008 15:04				Before: 14–Feb–2008 10:54			

High resolution Integrated Logging Tool–CTS Wellsite Calibration						
Test Loop Gain Correction						
Idx	Value	Test Loop Gain Magnitude V			Value	Phase DEG
0	1.018				0.4071	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.021				0.4871	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
2	1.019				0.002474	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
3	1.017				0.07604	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
4	0.9998				-0.004811	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)







5	0.9878			-0.1552		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	1.002			0.3053		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.013			-0.1082		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

Master: 6-Feb-2008 15:04

High resolution Integrated Logging Tool-CTS Wellsite Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M		
0	-70.22				177.7			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	149.5				302.9			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	113.0				-1.628			
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	63.63				61.66			
		39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	25.12				-5.158			
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	12.85				3.033			
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	9.749				6.154			
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-0.6272				7.234			
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

Master: 6-Feb-2008 15:04

Master: 6-Feb-2008 15:04




High resolution Integrated Logging Tool–CTS Wellsite Calibration							
Mud Gain Correction							
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag	
0	0.9858				0.9783		
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)
1	0.9886				0.9787		
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)
2	0.9886				0.9787		
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)
Master: 6–Feb–2008 15:04							




Master: 6-Feb-2008 15:04




High resolution Integrated Logging Tool-CTS Wellsite Calibration									
Stab Measurement Summary									
Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value
Before				0.7343	Before				0.4974
	0.6990 (Minimum)	0.7357 (Nominal)	0.7725 (Maximum)			0.4696 (Minimum)	0.4943 (Nominal)	0.5191 (Maximum)	
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value
Before				12580	Before				10200
	11950 (Minimum)	12570 (Nominal)	13200 (Maximum)			9697 (Minimum)	10210 (Nominal)	10720 (Maximum)	
Phase	LS Window Ratio			Value	Phase	LS Window Sum CPS			Value
Before				0.3022	Before				1207
	0.2867 (Minimum)	0.3018 (Nominal)	0.3169 (Maximum)			1151 (Minimum)	1212 (Nominal)	1272 (Maximum)	



Before: 14-Feb-2008 11:02

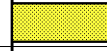








High resolution Integrated Logging Tool–CTS Wellsite Calibration														
Photo–multiplier High Voltages Calibrations														
Phase	BS PM High Voltage (Command) V			Value	Phase	SS PM High Voltage (Command) V			Value	Phase	LS PM High Voltage (Command) V			Value
Before				1278	Before				1559	Before				1414
	1174 (Minimum)	1274 (Nominal)	1374 (Maximum)		1458 (Minimum)	1558 (Nominal)	1658 (Maximum)			1312 (Minimum)	1412 (Nominal)	1512 (Maximum)		
Before: 14–Feb–2008 11:02														




High resolution Integrated Logging Tool–CTS Wellsite Calibration											
Crystal Quality Resolutions Calibration											
Phase	BS Crystal Resolution %		Value	Phase	SS Crystal Resolution %		Value	Phase	LS Crystal Resolution %		Value
Before			10.40	Before			10.07	Before			8.978
	9.346 (Minimum)	10.35 (Nominal)	11.35 (Maximum)		9.147 (Minimum)	10.15 (Nominal)	11.15 (Maximum)		8.226 (Minimum)	9.226 (Nominal)	10.23 (Maximum)
Before: 14–Feb–2008 11:02											


High resolution Integrated Logging Tool—CTS Wellsite Calibration														
MCFL Calibration														
Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				3838	Before				3825	Before				3817
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		
Before: 14—Feb—2008 11:03														

















High resolution Integrated Logging Tool–CTS Wellsite Calibration							
HILT Caliper Calibration							
Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			8.665	Before			12.74
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 14–Feb–2008 10:54							

High resolution Integrated Logging Tool–CTS Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig – Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			85.57	Before			176.8	Before			165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		160.7 (Minimum)	176.8 (Nominal)	192.8 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)
Before: 14–Feb–2008 10:54											





High resolution Integrated Logging Tool–CTS Wellsite Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				27.81	Master				26.25
Before				27.35	Before				25.96
5.000 (Minimum) 27.81 (Nominal) 40.00 (Maximum)					5.000 (Minimum) 26.25 (Nominal) 40.00 (Maximum)				
Master: 6–Jan–2008 15:37					Before: 14–Feb–2008 10:56				

High resolution Integrated Logging Tool—CTS Wellsite Calibration														
Ratio Measurement														
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value	Phase	CNTC/CFTC (Tank)			Value
Master				5298	Master				2226	Master				2.380
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)			2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)		
Master: 6–Jan–2008 15:37														

















High resolution Integrated Logging Tool–CTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z–Axis Acceleration F/S2	Value	
Before		31.77	
	31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)
Before: 15–Feb–2008 6:13			

High resolution Integrated Logging Tool–CTS Master Calibration							
Electronics Calibration Check – Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.6011		0.6050	49.25		71.00
1	Master	1.235		1.270	48.13		70.00
2	Master	0.6142		0.6230	44.38		66.00
3	Master	0.6942		0.7040	43.60		65.00
4	Master	1.295		1.337	37.34		59.00
5	Master	1.886		1.955	35.40		57.00
6	Master	1.885		1.955	35.41		57.00
7	Master	1.361		1.415	31.43		53.00
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)		Nom + 60.00 (Maximum)



Master: 6-Feb-2008 15:04















High resolution Integrated Logging Tool–CTS Master Calibration					
Electronics Calibration Check – Auxilliary					
Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value
Master		992.0	Master		-0.1180
941.0 (Minimum)		990.5 (Nominal)	-50.00 (Minimum)		0 (Nominal)
		1040 (Maximum)			50.00 (Maximum)
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9186	Master		-0.0001162
0.8700 (Minimum)		0.9150 (Nominal)	-0.05000 (Minimum)		0 (Nominal)
		0.9600 (Maximum)			0.05000 (Maximum)

Master: 6-Feb-2008 15:04







High resolution Integrated Logging Tool–CTS Master Calibration					
Test Loop Gain Correction					
Idx	Value	Test Loop Gain Magnitude V	Value	Phase DEG	
0	1.018		0.4071		
		0.9500 (Minimum)			-3.000 (Minimum)
		1.000 (Nominal)			0 (Nominal)
		1.050 (Maximum)			3.000 (Maximum)
1	1.021		0.4871		
		0.9500 (Minimum)			-3.000 (Minimum)
		1.000 (Nominal)			0 (Nominal)
		1.050 (Maximum)			3.000 (Maximum)
2	1.019		0.002474		
		0.9500 (Minimum)			-3.000 (Minimum)
		1.000 (Nominal)			0 (Nominal)
		1.050 (Maximum)			3.000 (Maximum)
3	1.017		0.07604		
		0.9500 (Minimum)			-3.000 (Minimum)
		1.000 (Nominal)			0 (Nominal)
		1.050 (Maximum)			3.000 (Maximum)
4	0.9998		-0.004811		
		0.9500 (Minimum)			-3.000 (Minimum)
		1.000 (Nominal)			0 (Nominal)
		1.050 (Maximum)			3.000 (Maximum)
5	0.9878		-0.1552		
		0.9500 (Minimum)			-3.000 (Minimum)
		1.000 (Nominal)			0 (Nominal)
		1.050 (Maximum)			3.000 (Maximum)
6	1.002		0.3053		
		0.9500 (Minimum)			-3.000 (Minimum)
		1.000 (Nominal)			0 (Nominal)
		1.050 (Maximum)			3.000 (Maximum)
7	1.013		-0.1082		
		0.9500 (Minimum)			-3.000 (Minimum)
		1.000 (Nominal)			0 (Nominal)
		1.050 (Maximum)			3.000 (Maximum)

Master: 6-Feb-2008 15:04





High resolution Integrated Logging Tool–CTS Master Calibration					
Sonde Error Correction					
Idx	Value	R Sonde Error Correction MM/M		Value	X Sonde Error Correction MM/M
0	-70.22			177.7	

		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)			-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	149.5						302.9		
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)			-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	113.0						-1.628		
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)			-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	63.63						61.66		
		39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)			-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	25.12						-5.158		
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)			-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	12.85						3.033		
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)			-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	9.749						6.154		
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)			-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-0.6272						7.234		
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)			-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)







Master: 6-Feb-2008 15:04

High resolution Integrated Logging Tool–CTS Master Calibration								
Mud Gain Correction								
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag		
0	0.9858				0.9783			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	0.9886				0.9787			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	0.9886				0.9787			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 6–Feb–2008 15:04								

Master: 6-Feb-2008 15:04



High resolution Integrated Logging Tool—CTS Master Calibration									
Inversion results									
Phase	Rho Aluminum G/C3			Value	Phase	Rho Magnesium G/C3			Value
Master				2.597	Master				1.688
	2.586 (Minimum)	2.596 (Nominal)	2.606 (Maximum)			1.676 (Minimum)	1.686 (Nominal)	1.696 (Maximum)	
Phase	Pe Aluminum			Value	Phase	Pe Magnesium			Value
Master				2.552	Master				2.624
	2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)			2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)	
Master: 12—Feb—2008 12:36									




Master: 12-Feb-2008 12:36

High resolution Integrated Logging Tool-CTS Master Calibration														
Deviation Summary														
Phase	BS Average Deviation %			Value	Phase	SS Average Deviation %			Value	Phase	LS Average Deviation %			Value
Master				0.3355	Master				0.3095	Master				0.6081
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)		-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)			-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)		
Phase	BS Max Deviation %			Value	Phase	SS Max Deviation %			Value	Phase	LS Max Deviation %			Value
Master				1.026	Master				0.8703	Master				1.399
	-1.600 (Minimum)	0 (Nominal)	1.600 (Maximum)		-2.500 (Minimum)	0 (Nominal)	2.500 (Maximum)			-3.500 (Minimum)	0 (Nominal)	3.500 (Maximum)		
Master: 12-Feb-2008 12:36														

Master: 12-Feb-2008 12:36

High resolution Integrated Logging Tool-CTS Master Calibration							
Zero Measurement							
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value

Master		27.81	Master		26.25
5.000 (Minimum)	27.81 (Nominal)	40.00 (Maximum)	5.000 (Minimum)	26.25 (Nominal)	40.00 (Maximum)
Master: 6-Jan-2008 15:37					

High resolution Integrated Logging Tool-CTS Master Calibration											
Tank Measurement											
Phase	Thermal Near Corr. (Tank) CPS		Value	Phase	Thermal Far Corr. (Tank) CPS		Value	Phase	CNTC/CFTC (Tank)		Value
Master			5298	Master			2226	Master			2.380
4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)	
Master: 6-Jan-2008 15:37											

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

**Schlumberger**

Well: **Zuege 17-34**

Field: **Wildcat**

County: **Yuma**

State: **Colorado**

Platform Express  
Array Induction  
with Linear Correlation