



Main Matrix: Limestone 2.71



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

8.625

8.097

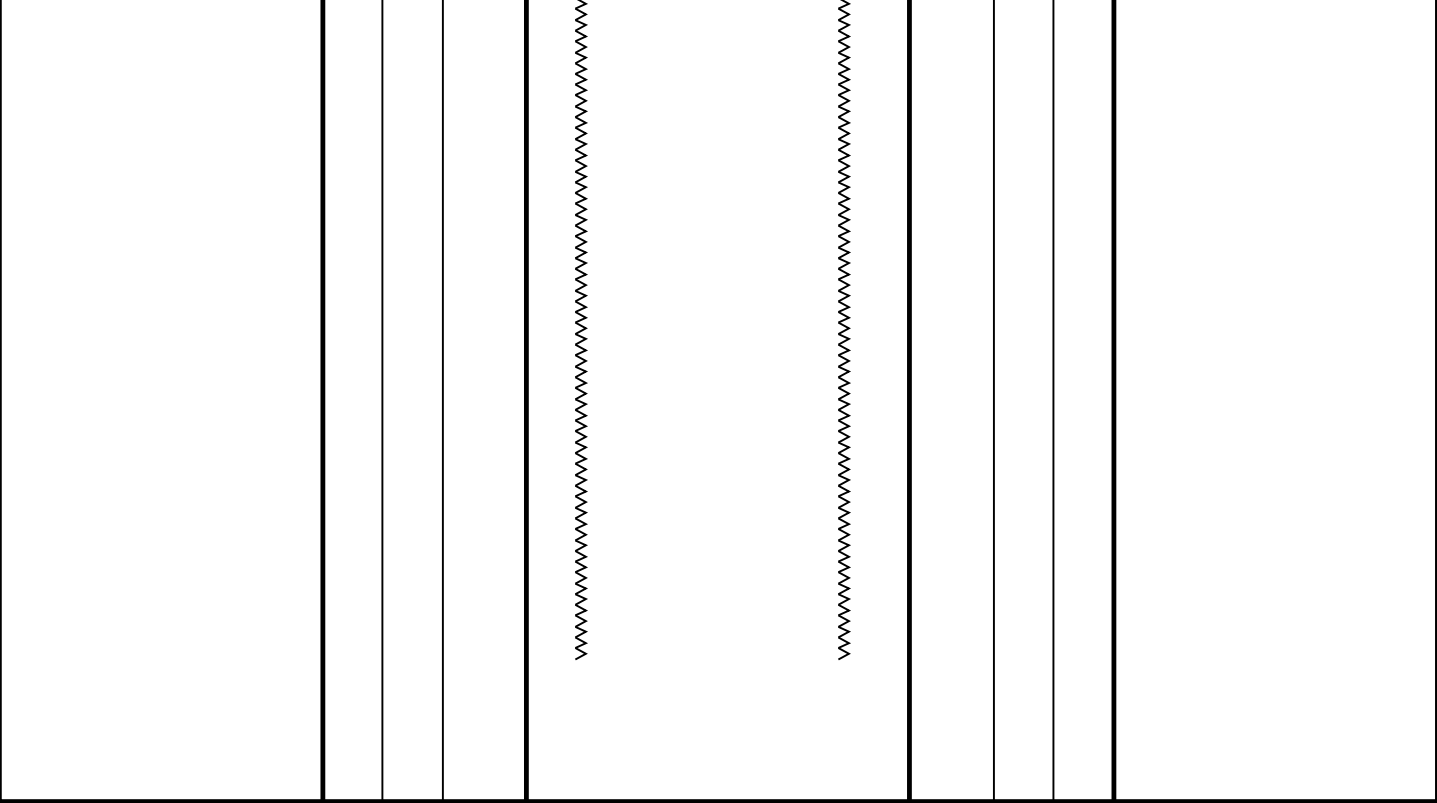
418.0

8.625

8.097

418.0

7.875



All Depths are Drillers

Schlumberger

Resistivity Linear 2" = 100'

MAXIS Field Log

Output DLIS Files

DEFAULT      AIT\_TLD\_MCFL\_CNL\_010LUP      FN:9      PRODUCER      07-Jan-2011 22:18      5544.0 FT      368.5 FT

Integrated Hole/Cement Volume Summary

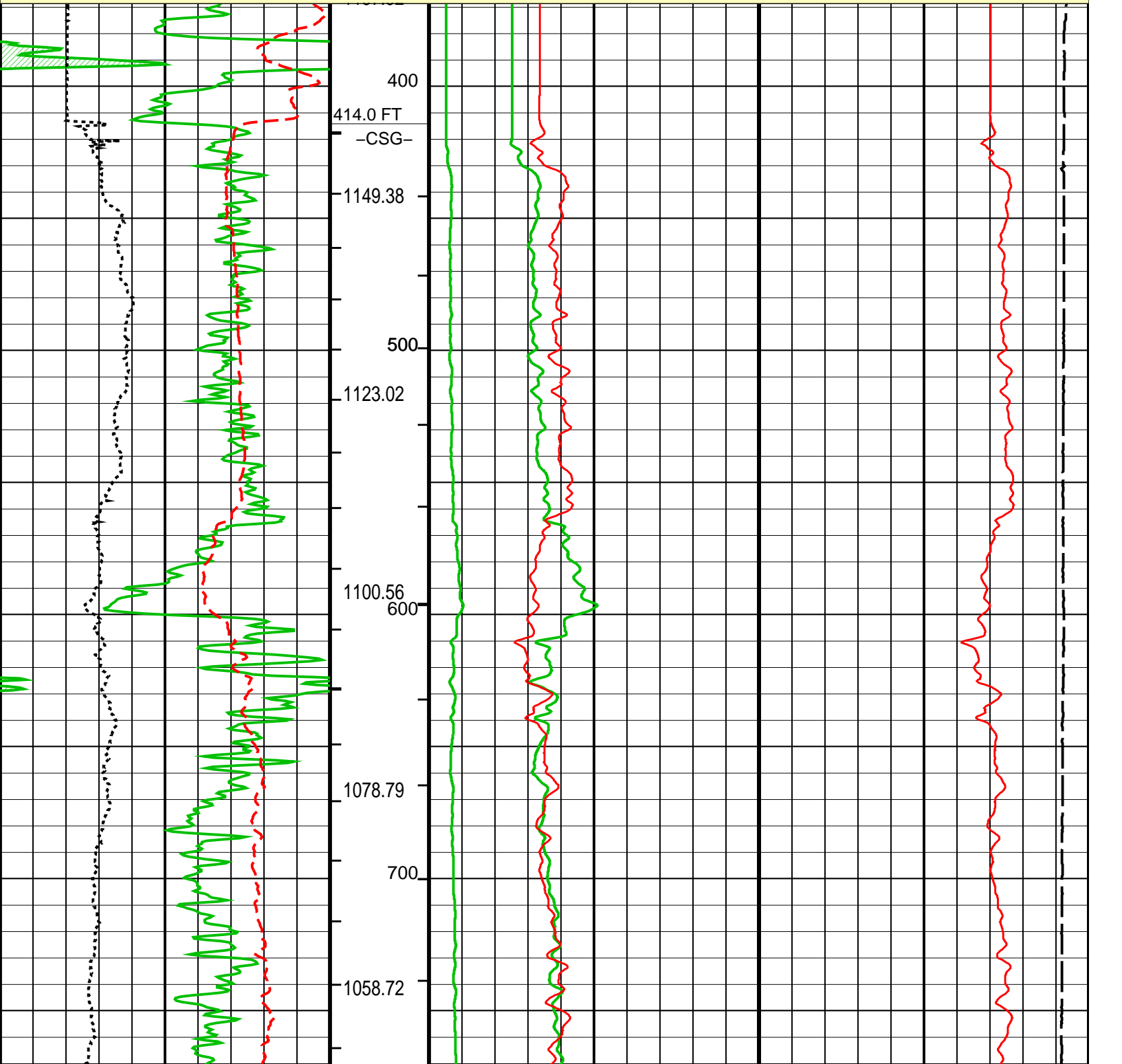
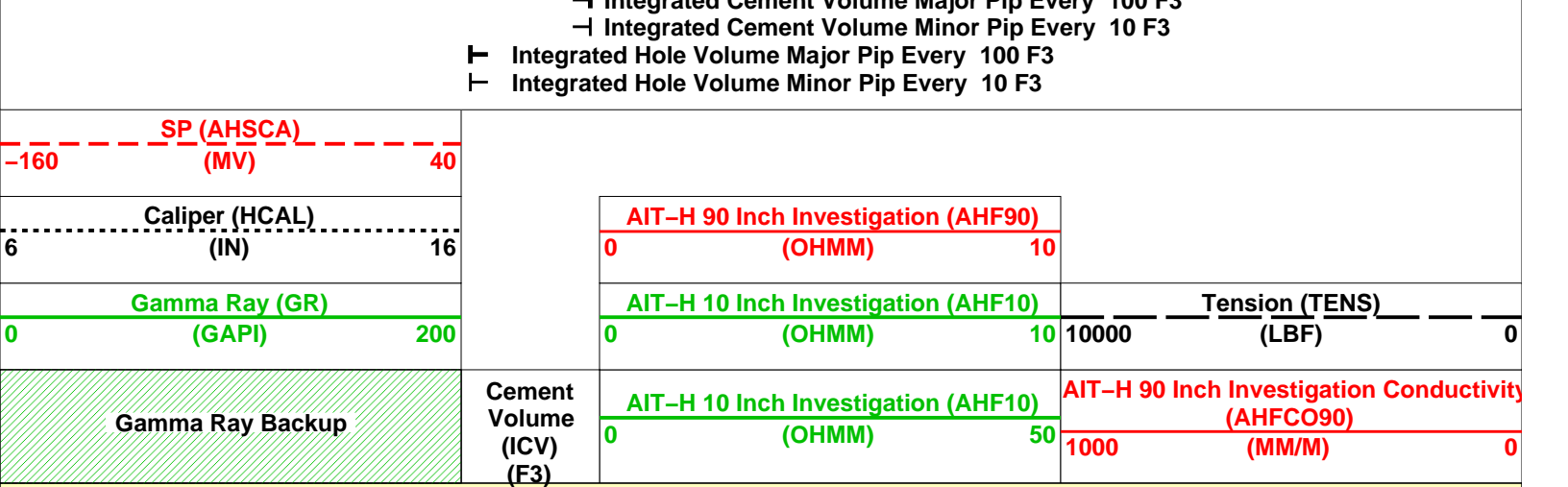
Hole Volume = 2001.65 F3  
Cement Volume = 1157.52 F3 (assuming 5.50 IN casing O.D.)  
Computed from 5530.0 FT to 414.0 FT using data channel(s) HCAL

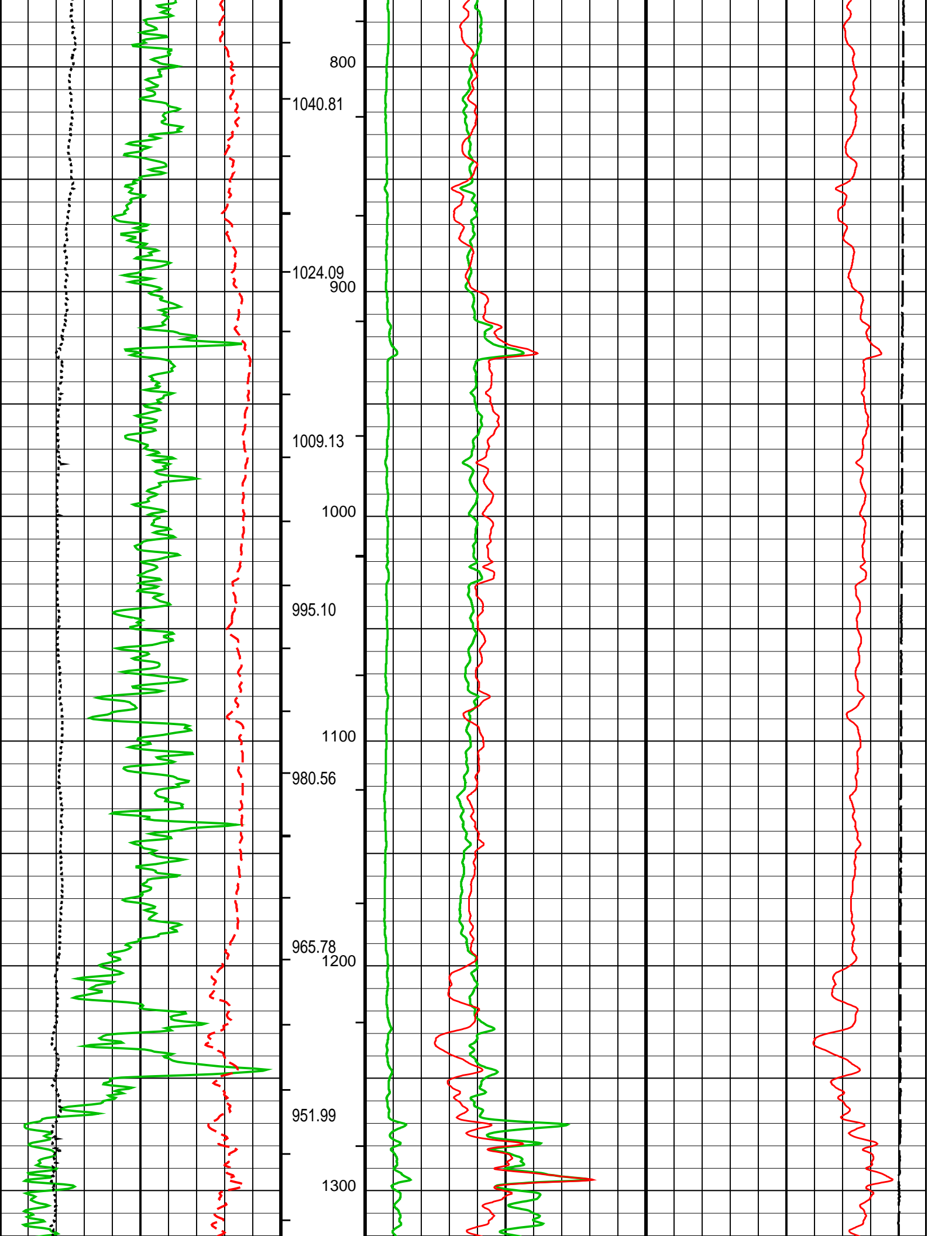
OP System Version: 18C0-147

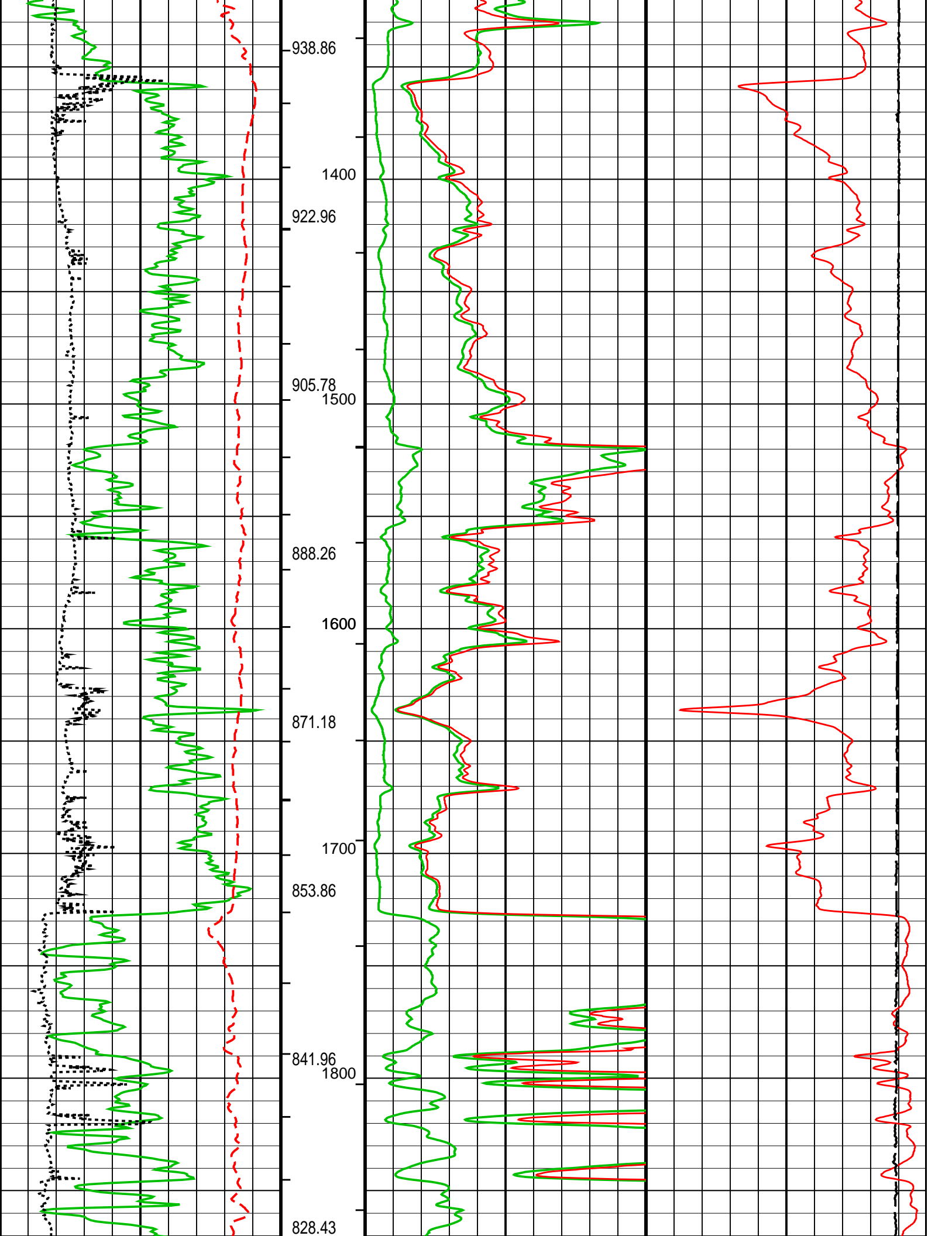
HILTB-CTS      18C0-147

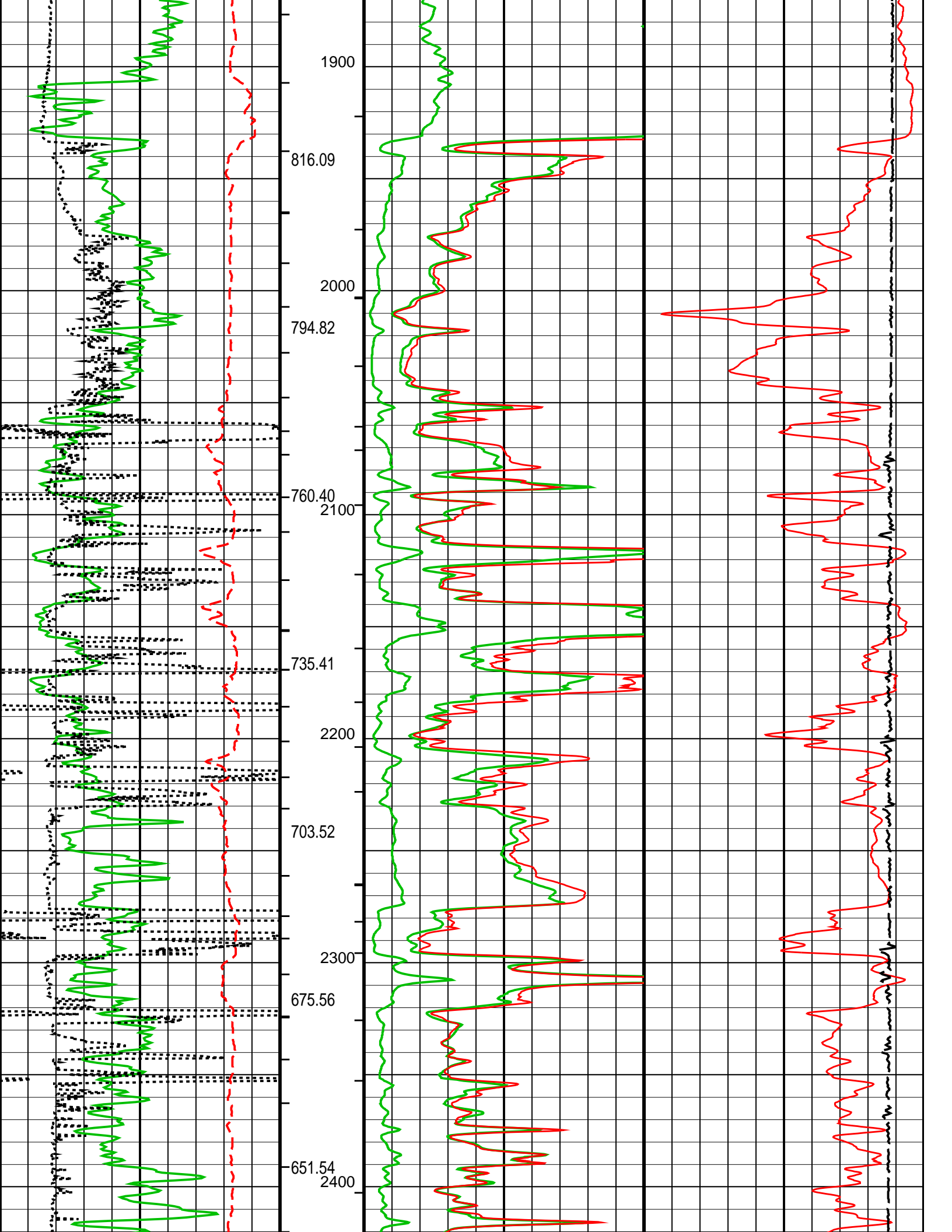
PIP SUMMARY

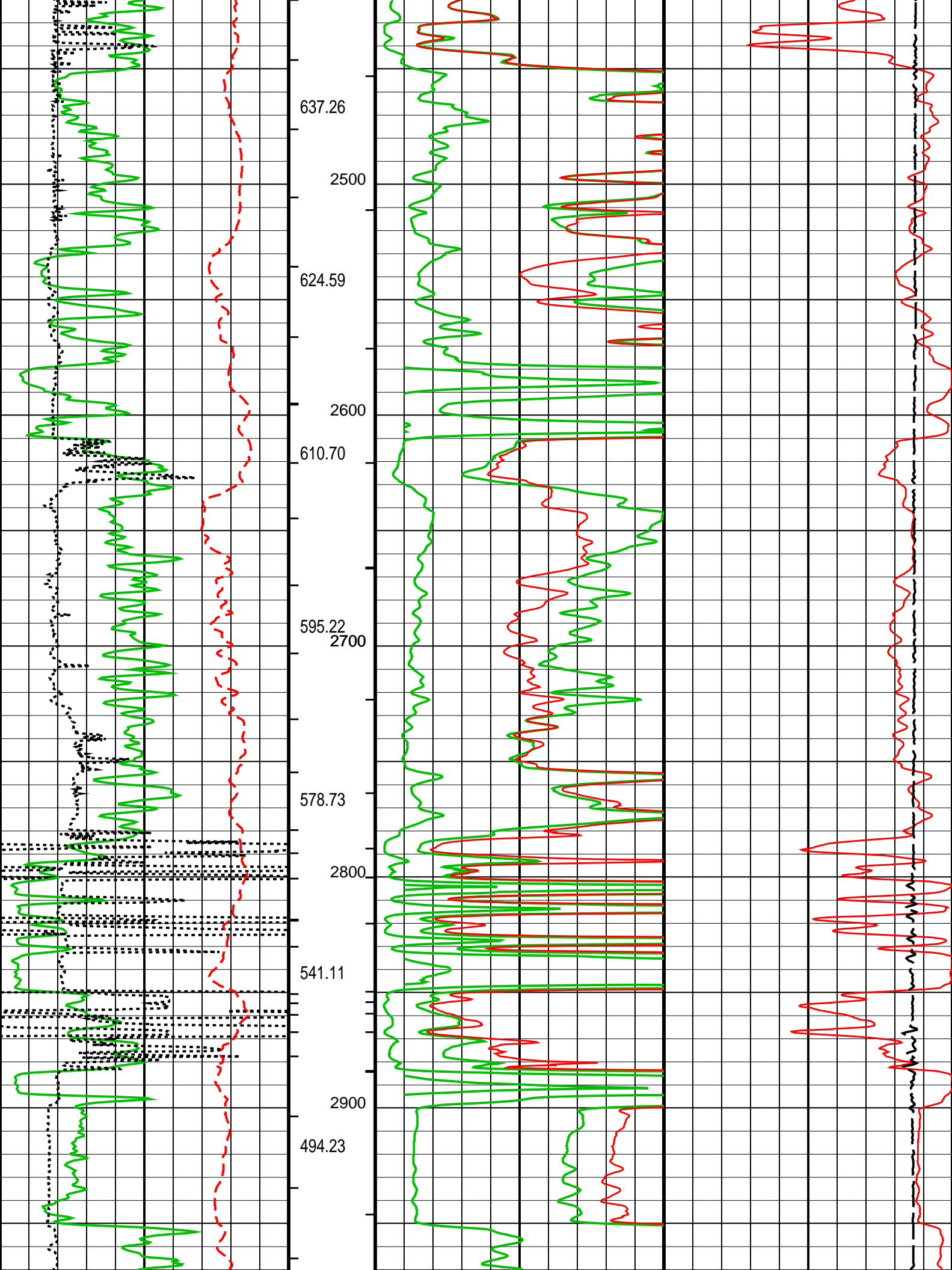
Integrated Cement Volume Major Pip Every 100 F3

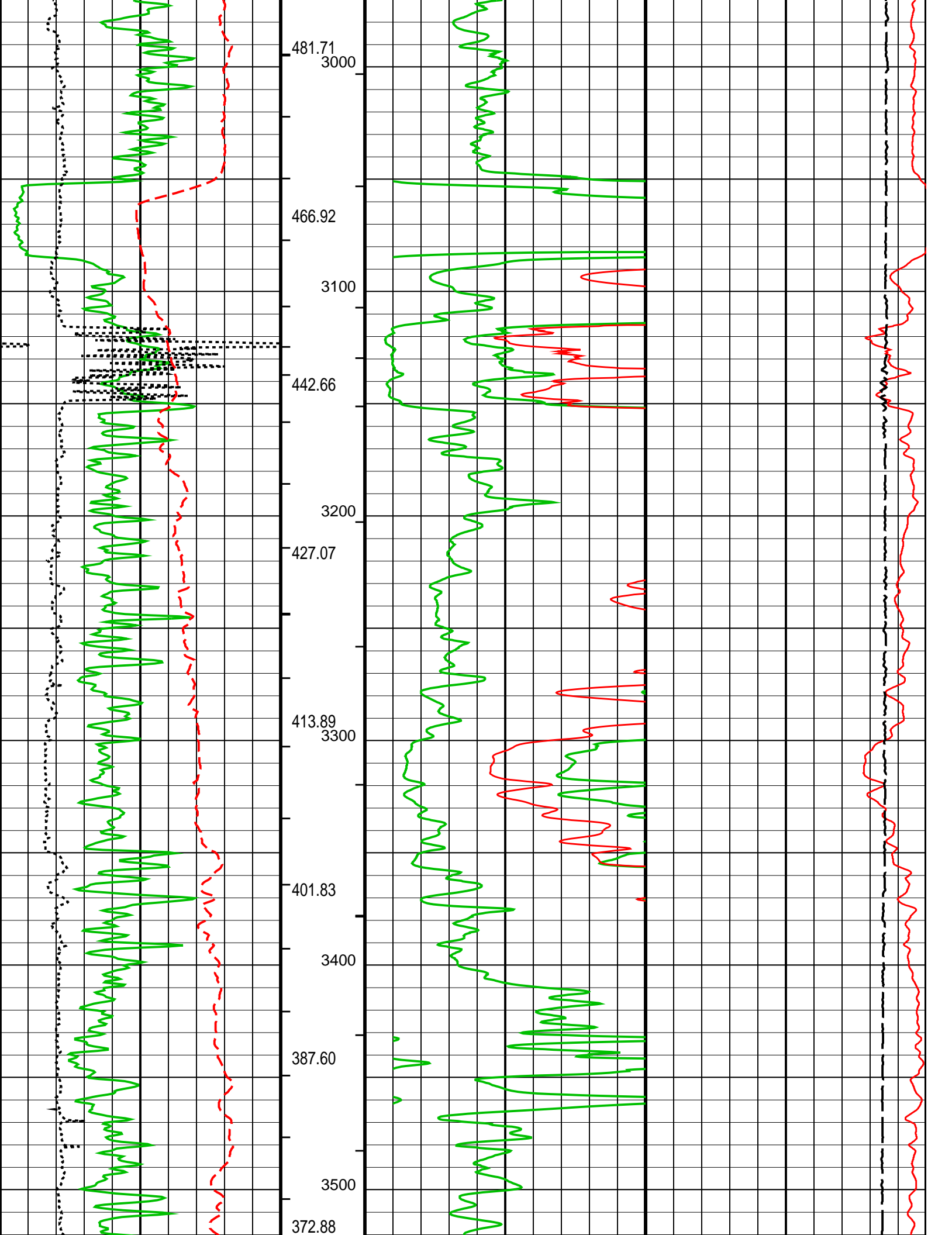


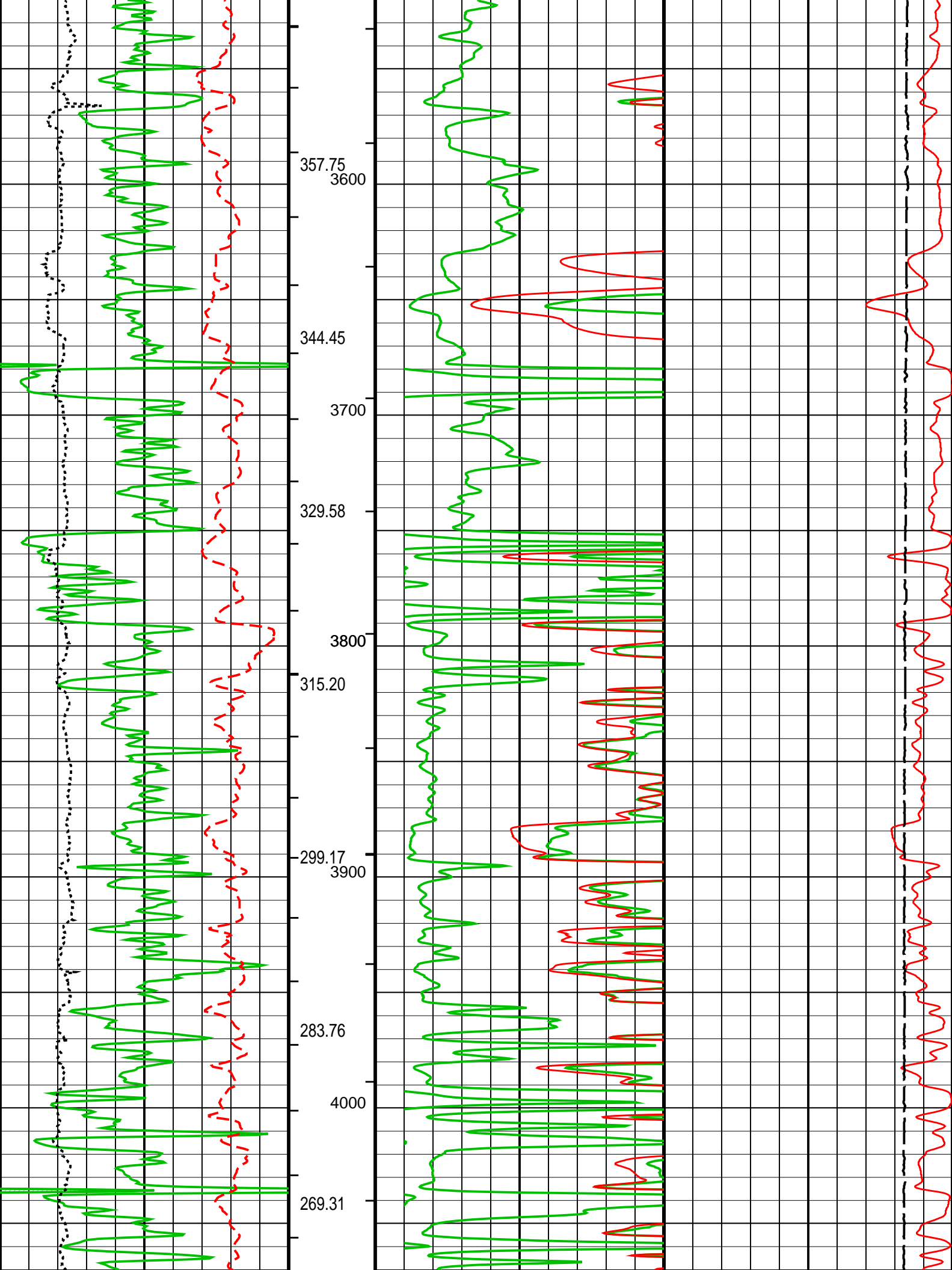


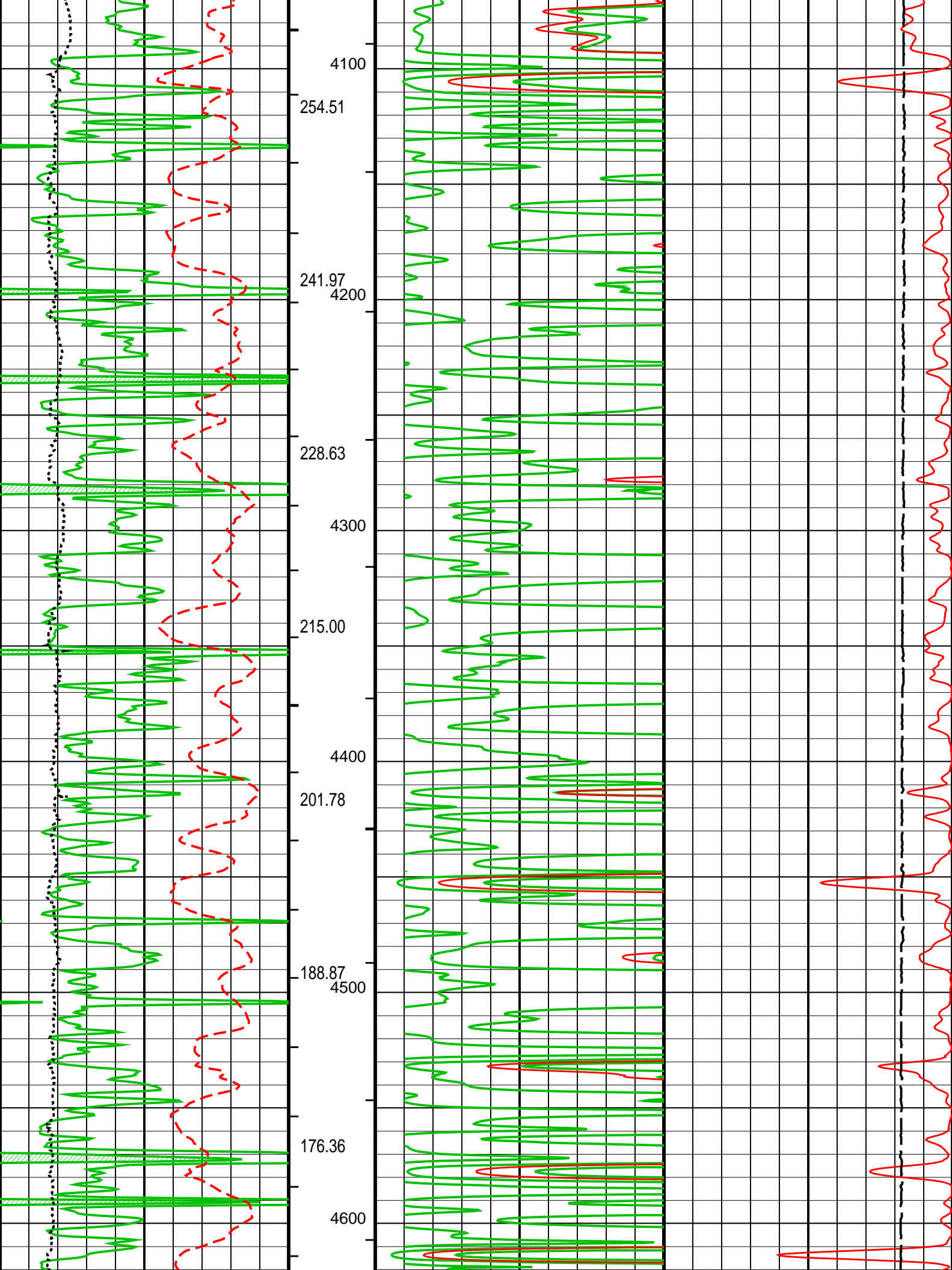


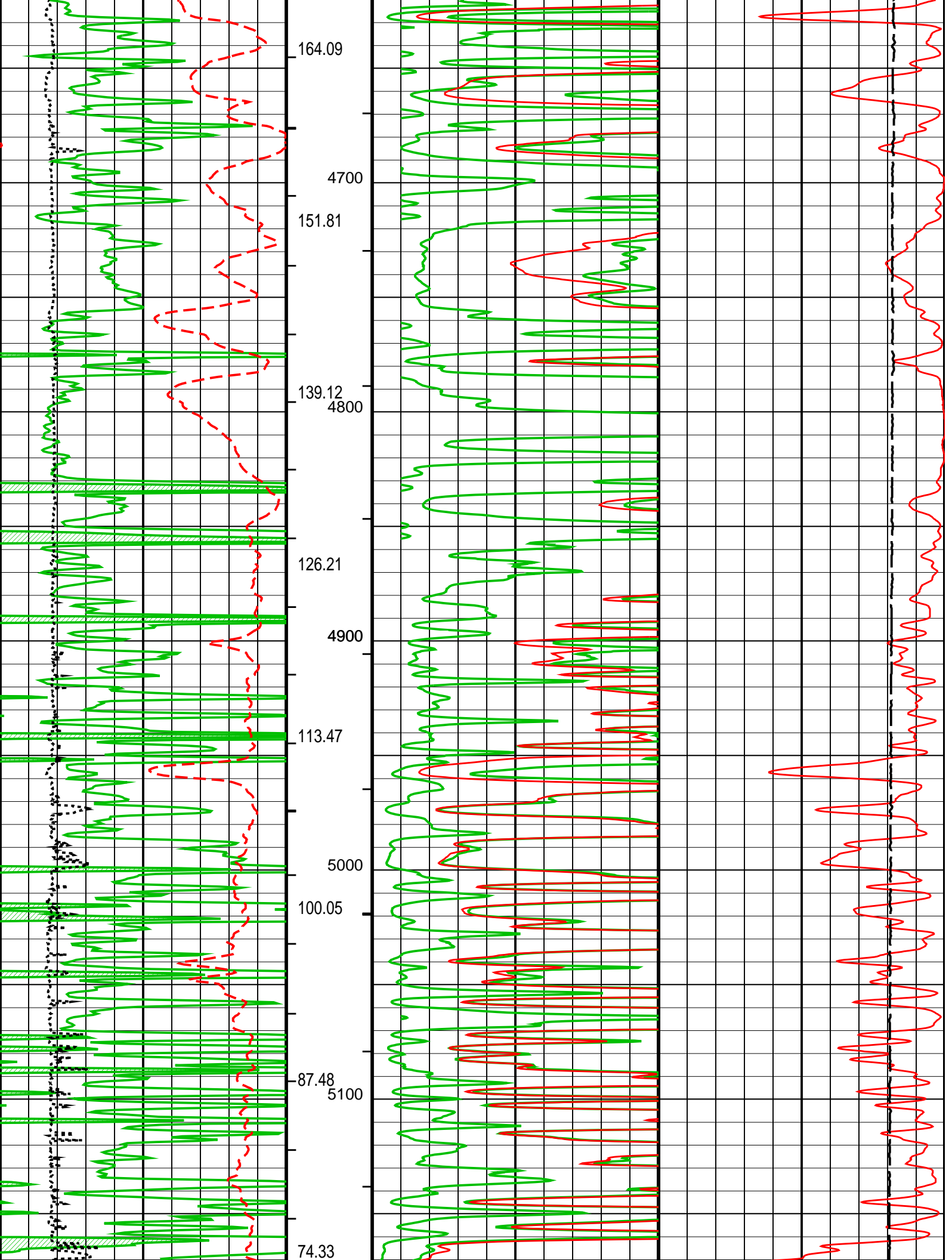


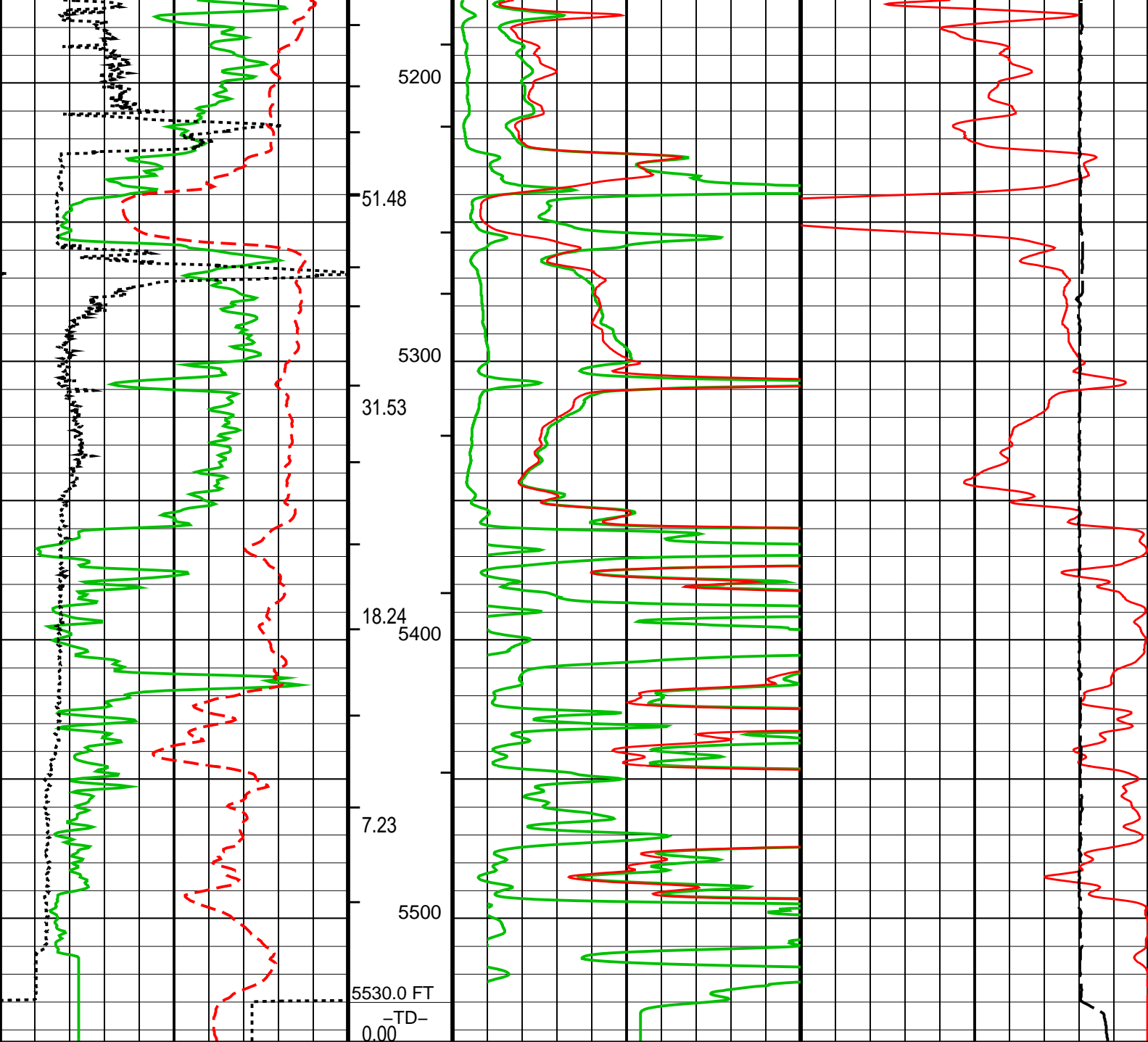












MAIN PASS: \*\*\* PLATFORM EXPRESS – ARRAY INDUCTION \*\*\*

Gamma Ray Backup	Cement Volume (ICV) (F3)	AIT-H 10 Inch Investigation (AHF10)		AIT-H 90 Inch Investigation Conductivity (AHFCO90)	
		0	50	1000	0
		(OHMM)		(MM/M)	
Gamma Ray (GR)		AIT-H 10 Inch Investigation (AHF10)		Tension (TENS)	
0		200	0	10	10000
(GAPI)		(OHMM)		(LBF)	
Caliper (HCAL)		AIT-H 90 Inch Investigation (AHF90)			
6	16	0	10		
(IN)		(OHMM)			
SP (AHSCA)					
-160	40				
(MV)					

PIP SUMMARY

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

Parameters

## 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)	180.64	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
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	180.64	DEGF
FCD	Future Casing (Outer) Diameter	5.5	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	
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			
BHT	Bottom Hole Temperature (used in calculations)	180.64	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	7.875	IN
DFD	Drilling Fluid Density	9.20	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	80.13	DEGF
TD	Total Depth	5530	FT

Format: ERES\_S2      Vertical Scale: 2" per 100'      Graphics File Created: 07-Jan-2011 22:18

## OP System Version: 18C0-147

HILTB-CTS      18C0-147

## Output DLIS Files

DEFAULT      AIT\_TLD\_MCFL\_CNL\_010LUP      FN:9      PRODUCER      07-Jan-2011 22:18

**Schlumberger**

**Main Resistivity Log 5" = 100'**

# Output DLIS Files

DEFAULT AIT\_TLD\_MCFL\_CNL\_010LUP FN:9 PRODUCER 07-Jan-2011 22:18 5544.0 FT 368.5 FT

## Integrated Hole/Cement Volume Summary

Hole Volume = 2001.65 F3

Cement Volume = 1157.52 F3 (assuming 5.50 IN casing O.D.)

Computed from 5530.0 FT to 414.0 FT using data channel(s) HCAL

## OP System Version: 18C0-147

HILTB-CTS 18C0-147

## Changed Parameter Summary

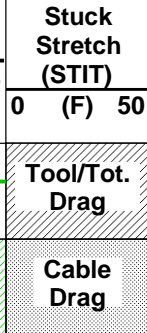
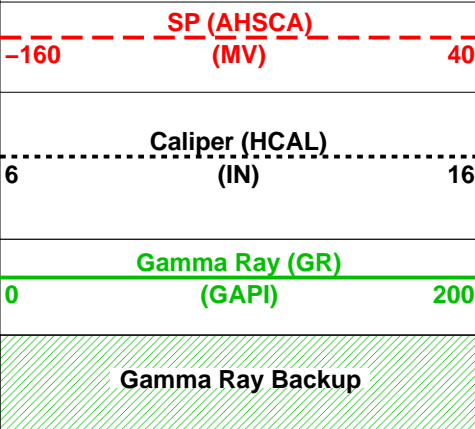
DLIS Name	New Value	Previous Value	Depth & Time
TDD	5535.00 FT	5536.00 FT	541.5 23:33:38

### PIP SUMMARY

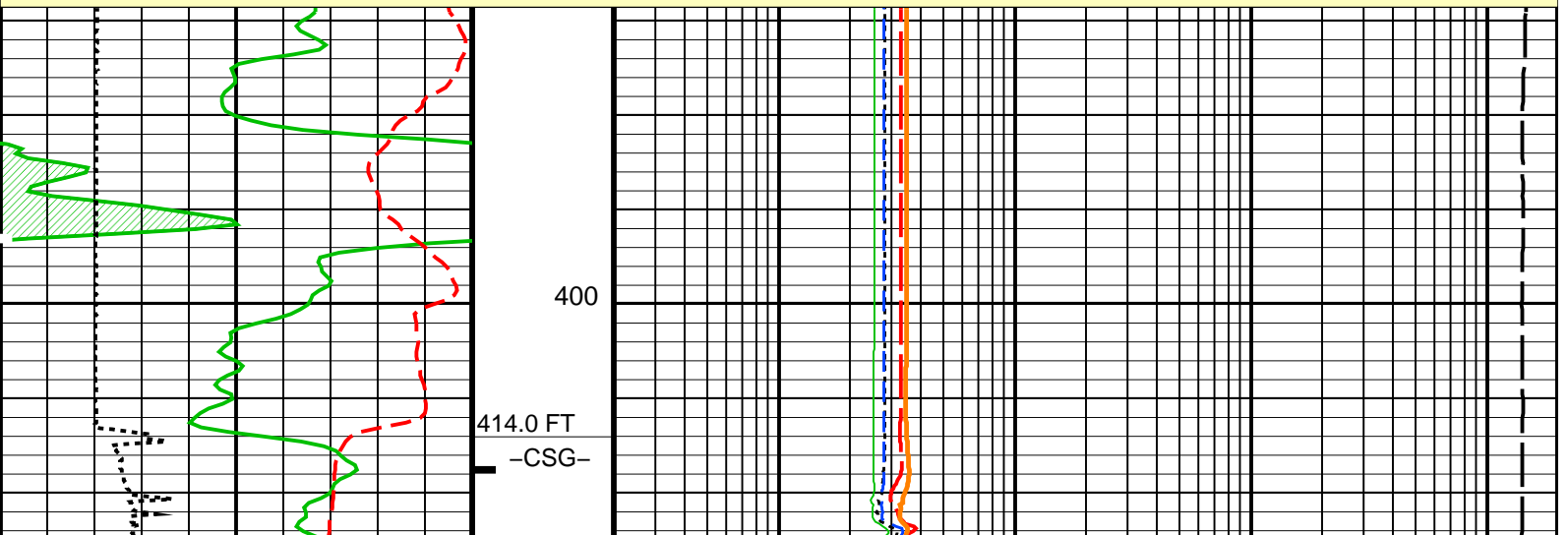
- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

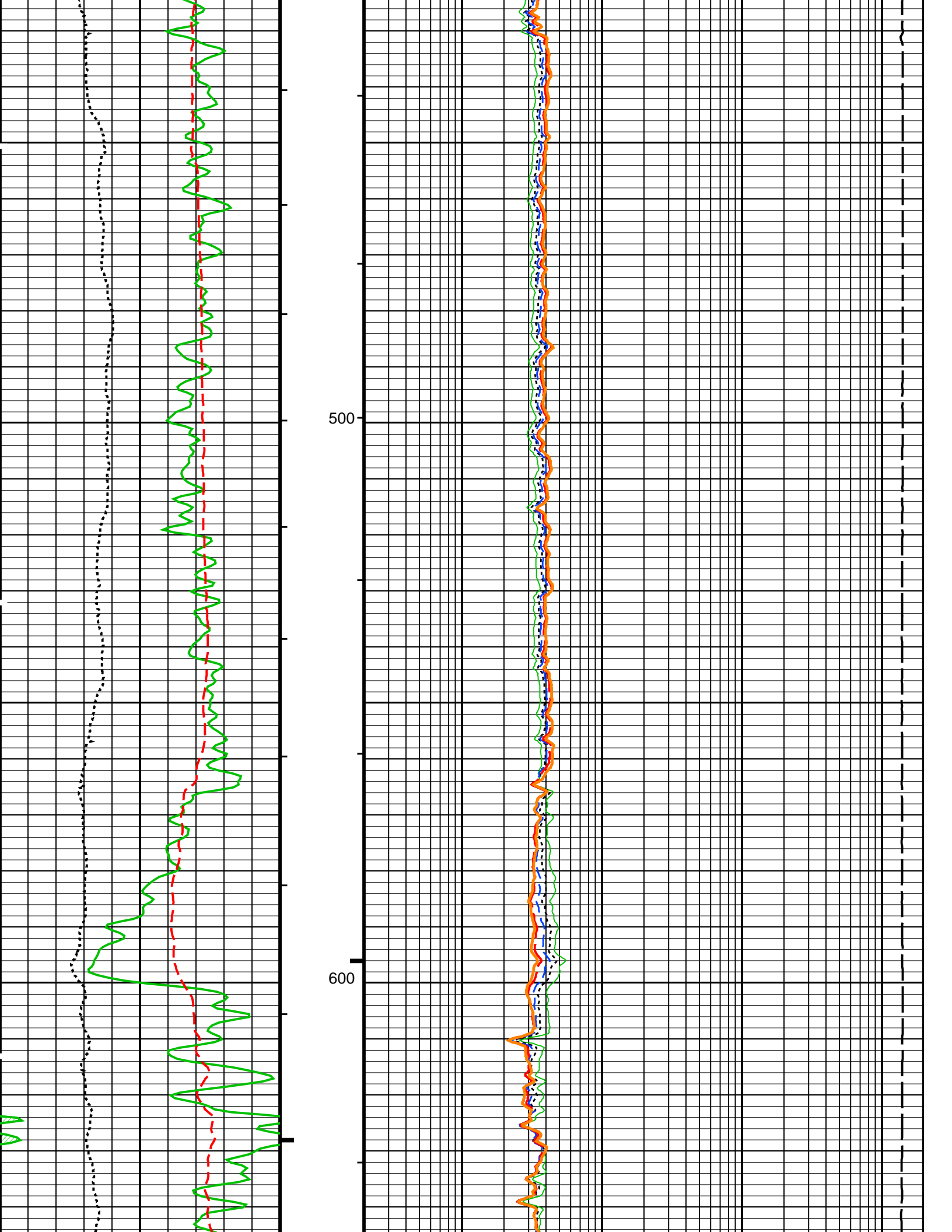
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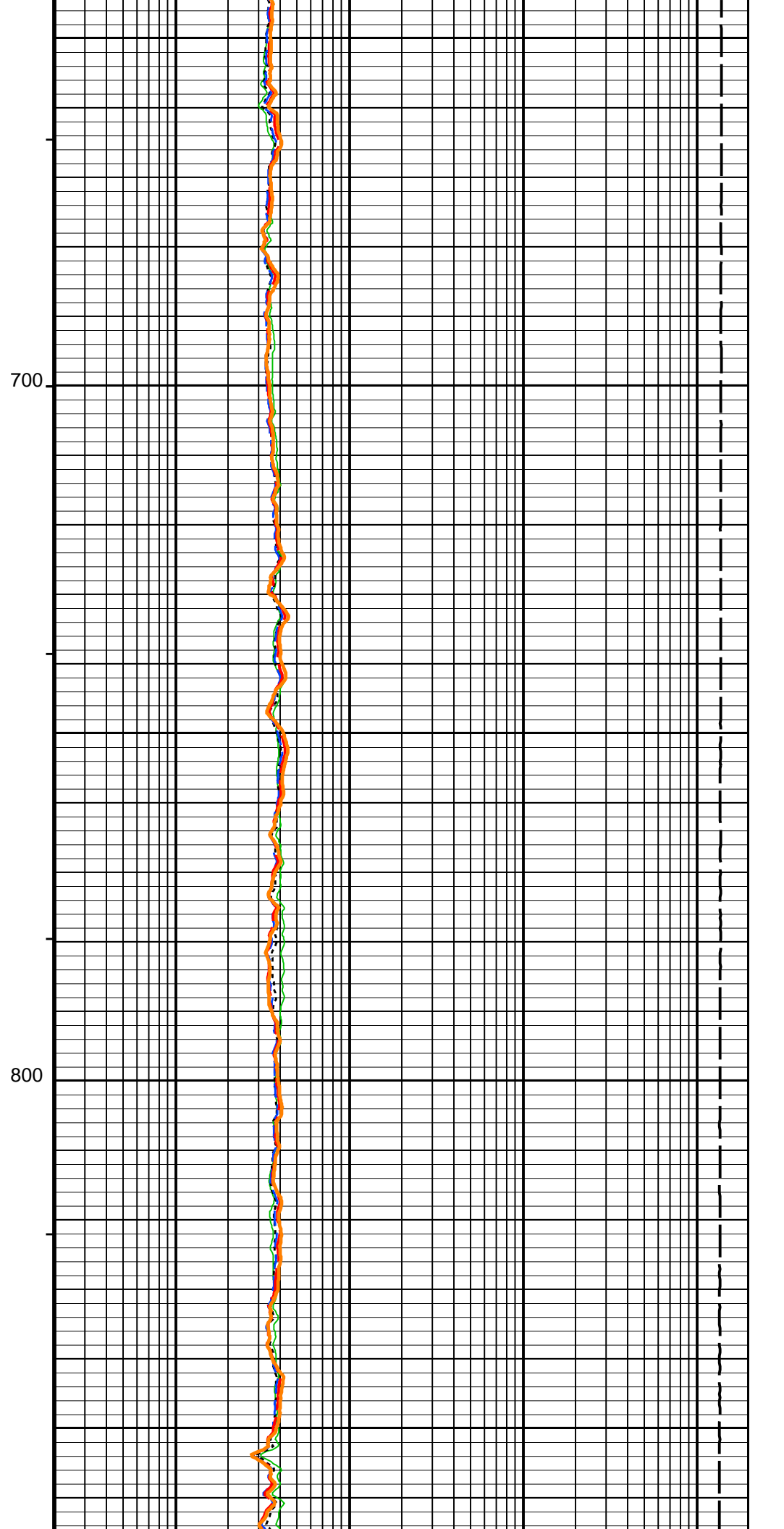
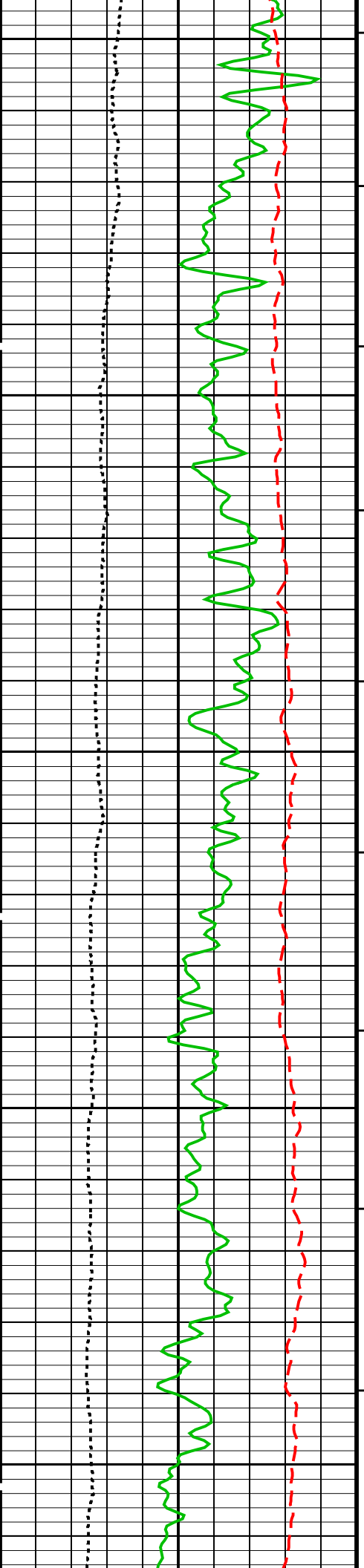
		Tension (TENS) (LBF)	
		10000	0
AIT-H 90 Inch Investigation (AHT90)		0.2	2000
AIT-H 60 Inch Investigation (AHT60)		0.2	2000
AIT-H 30 Inch Investigation (AHT30)		0.2	2000
AIT-H 20 Inch Investigation (AHT20)		0.2	2000
AIT-H 10 Inch Investigation (AHT10)		0.2	2000

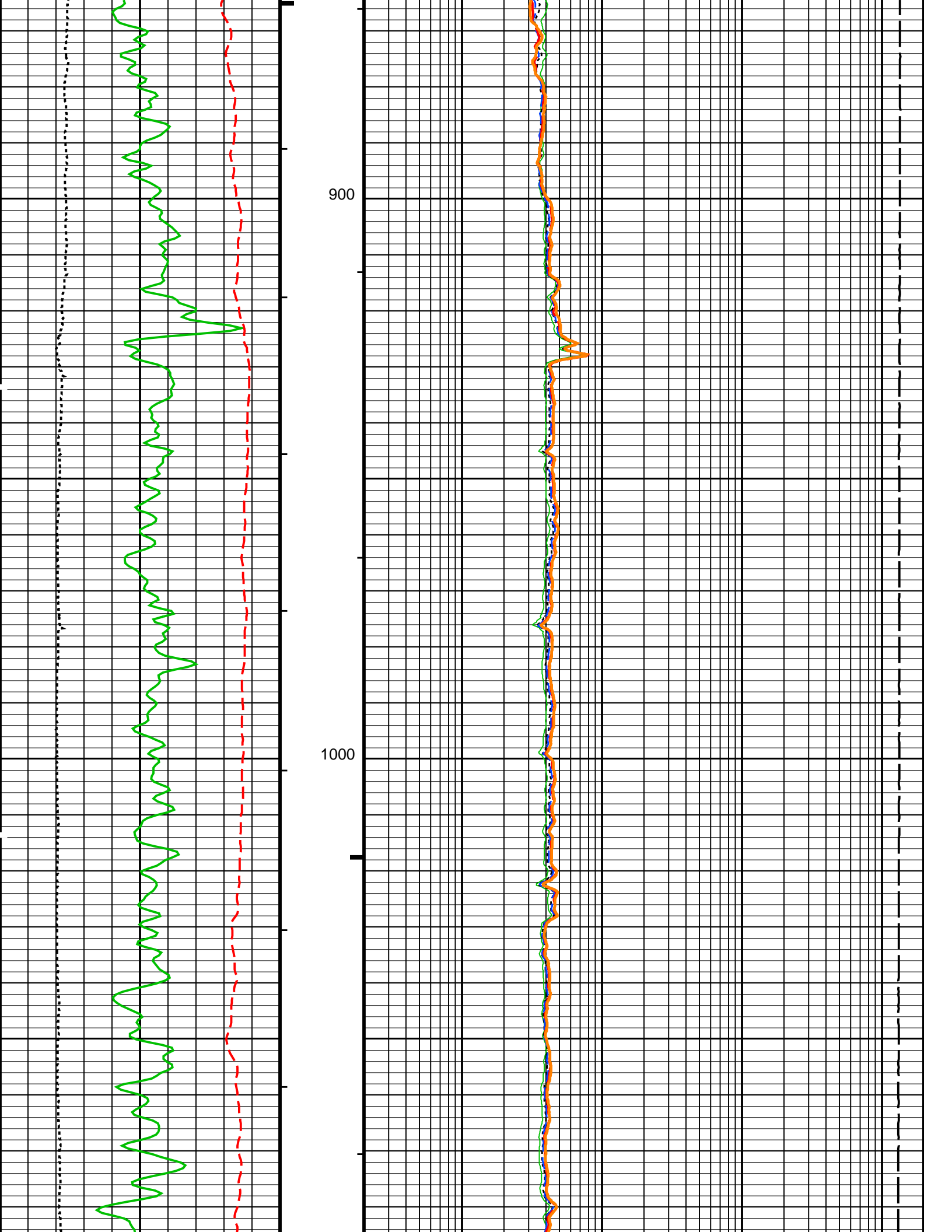


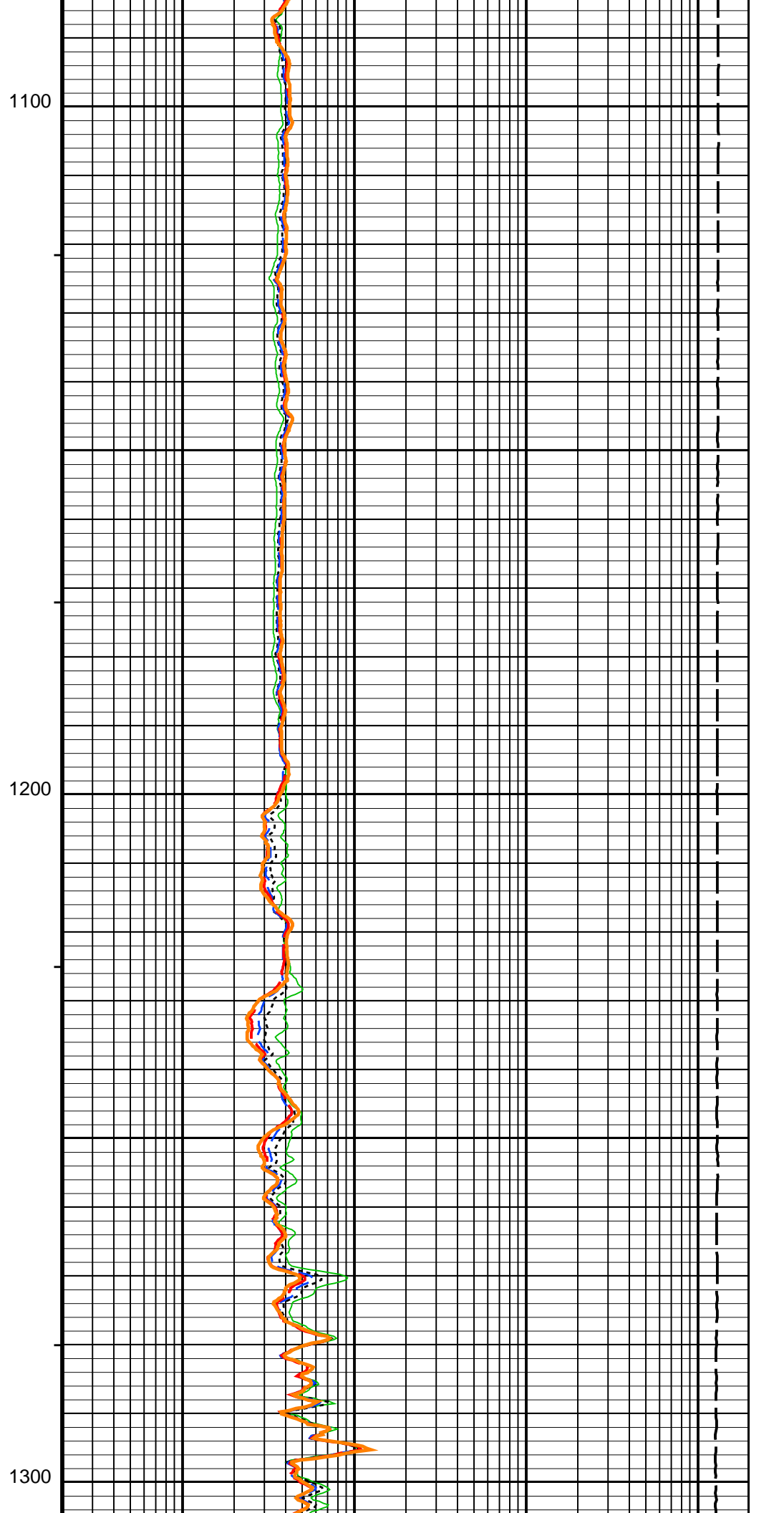
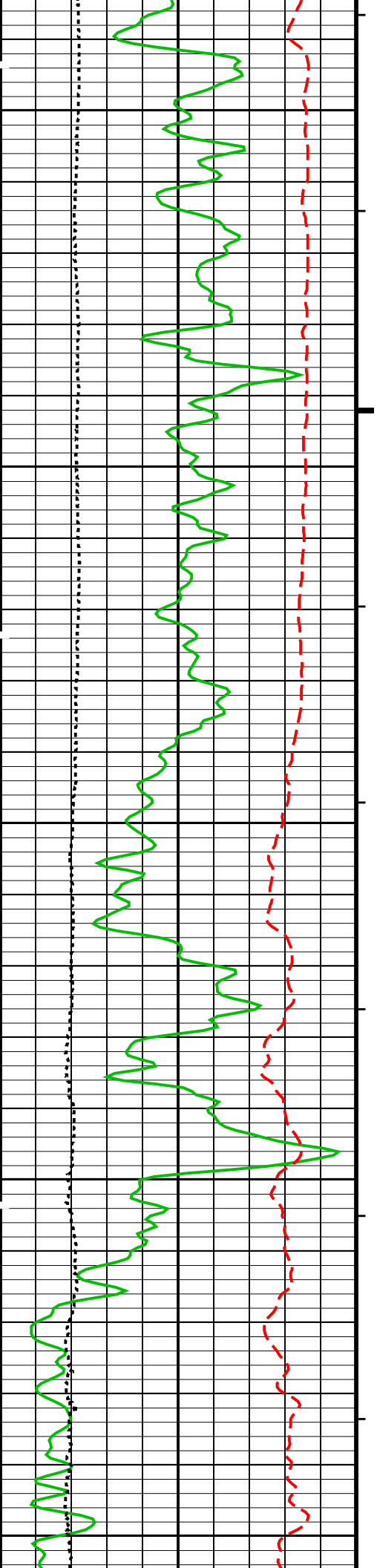
MAIN PASS: \*\*\* PLATFORM EXPRESS - ARRAY INDUCTION \*\*\*

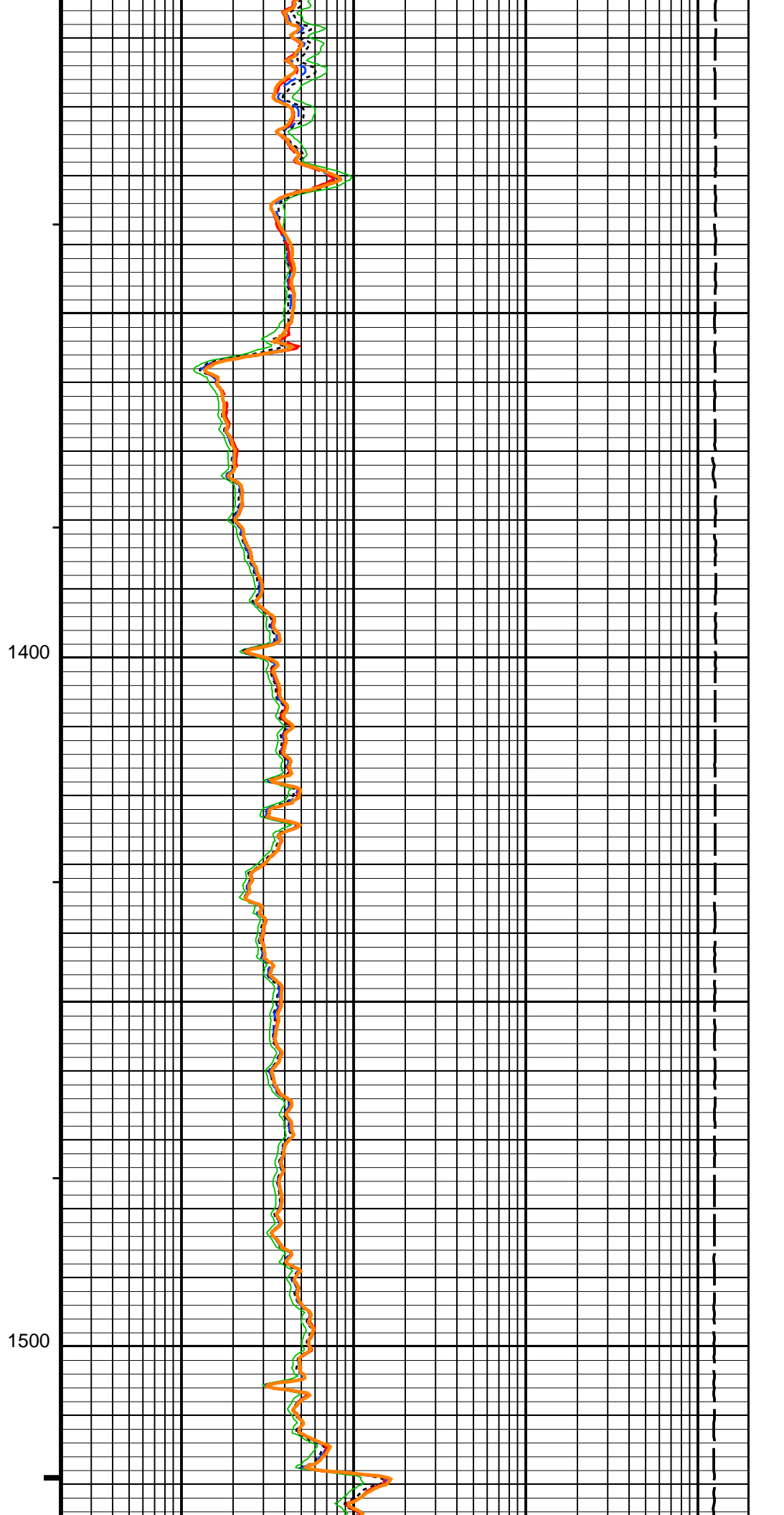
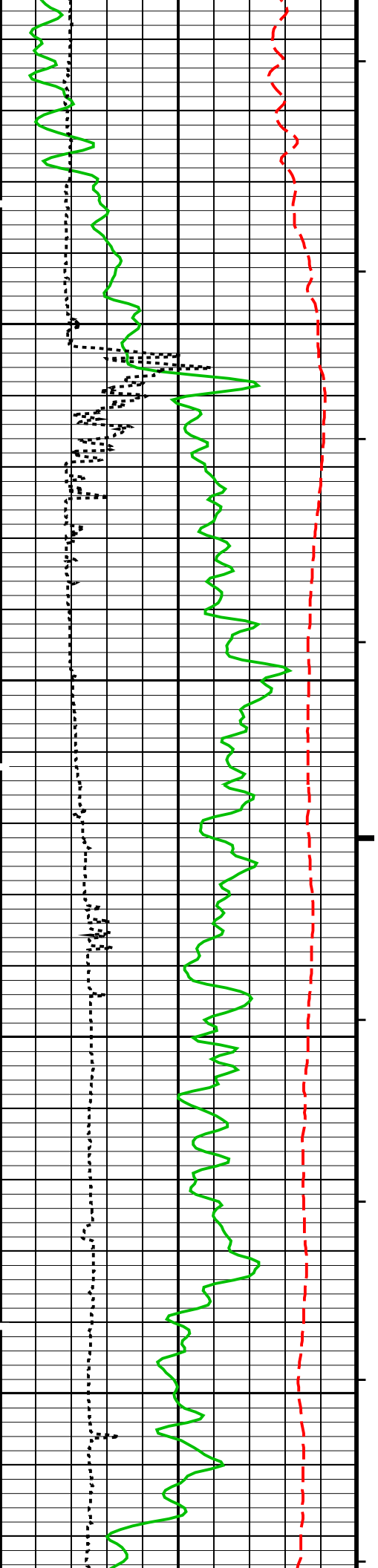


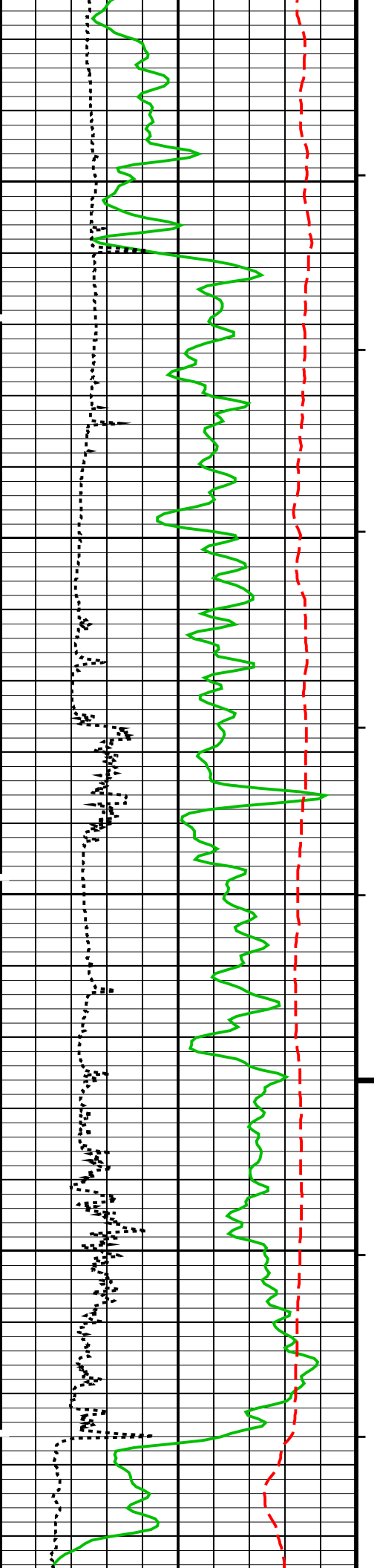






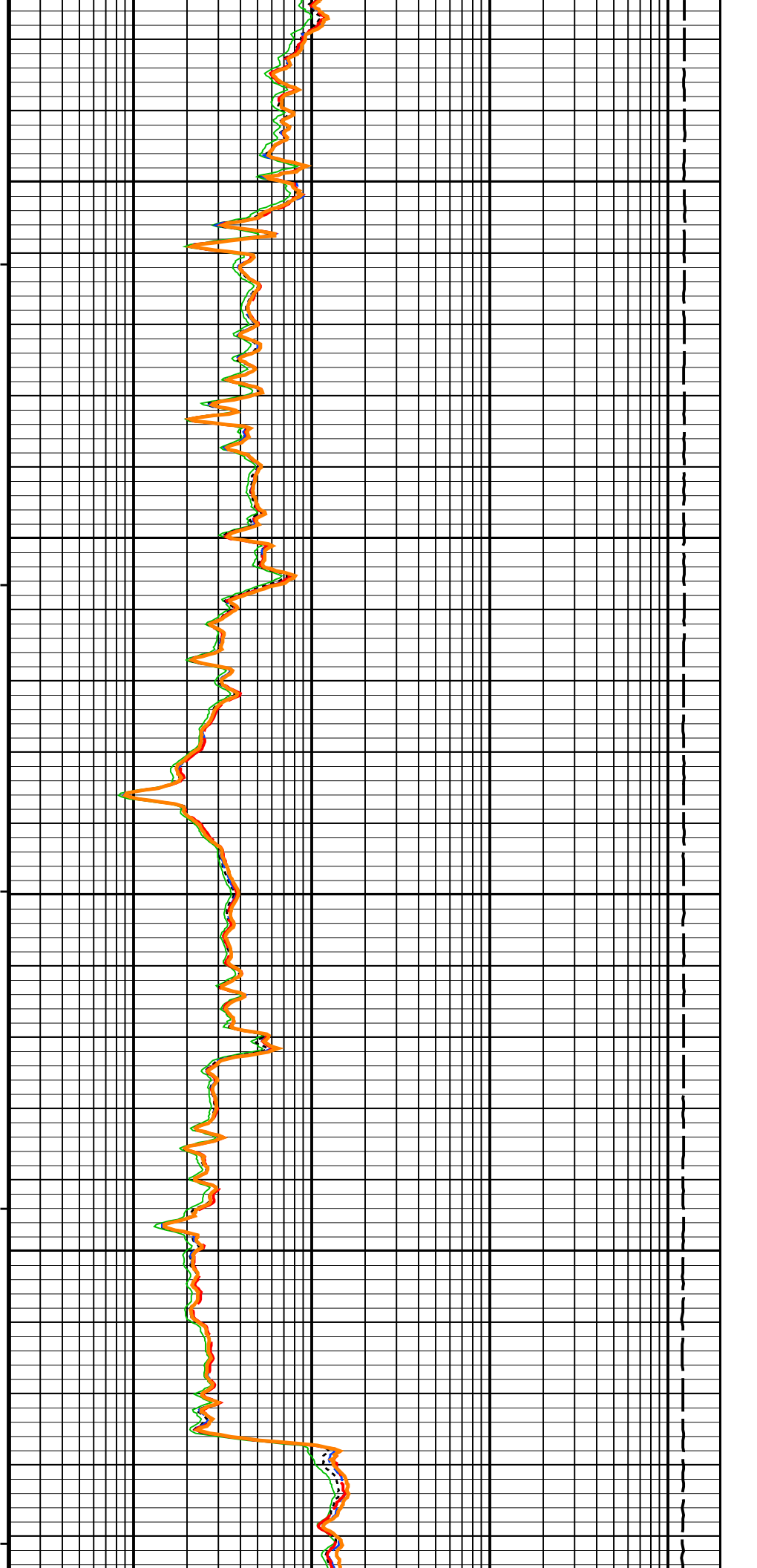


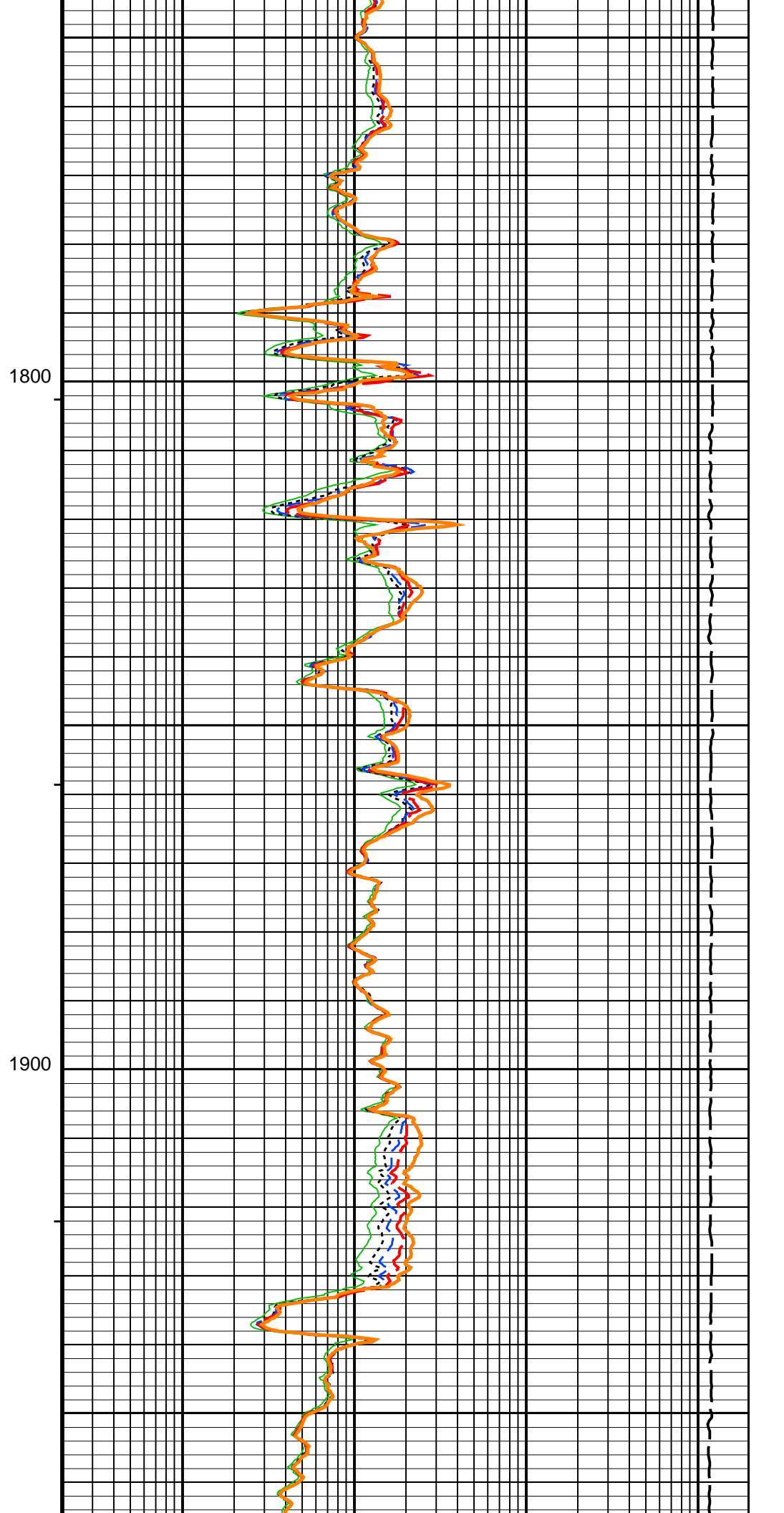
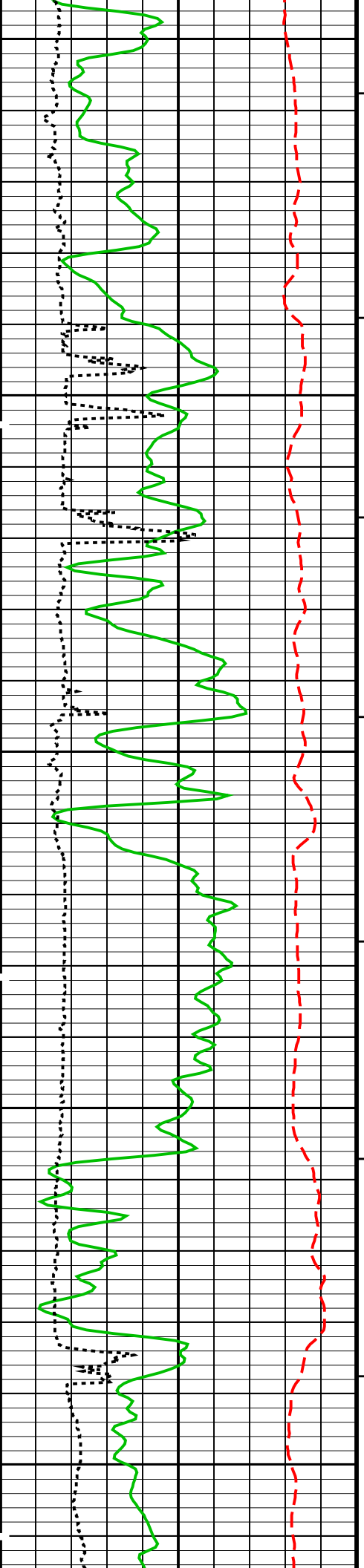


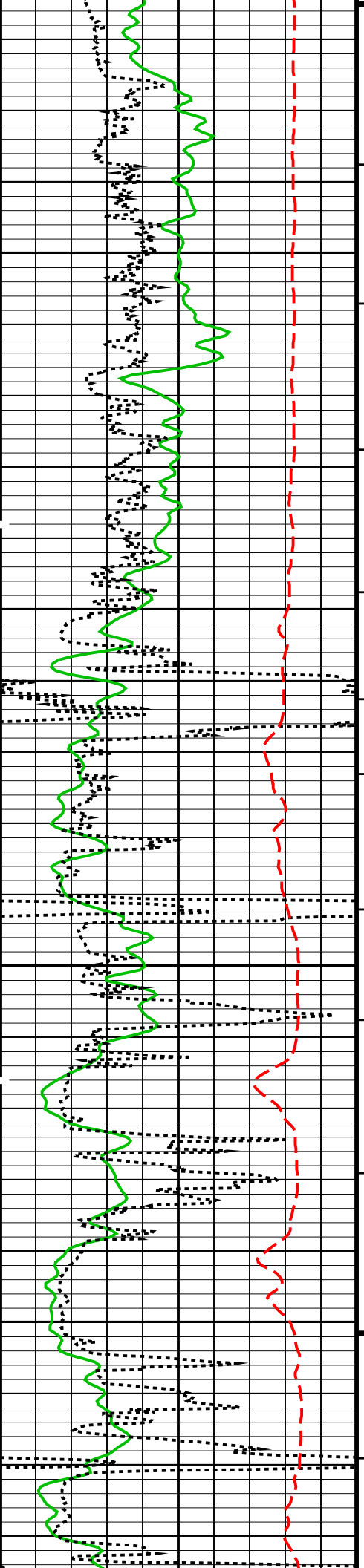


1600

1700

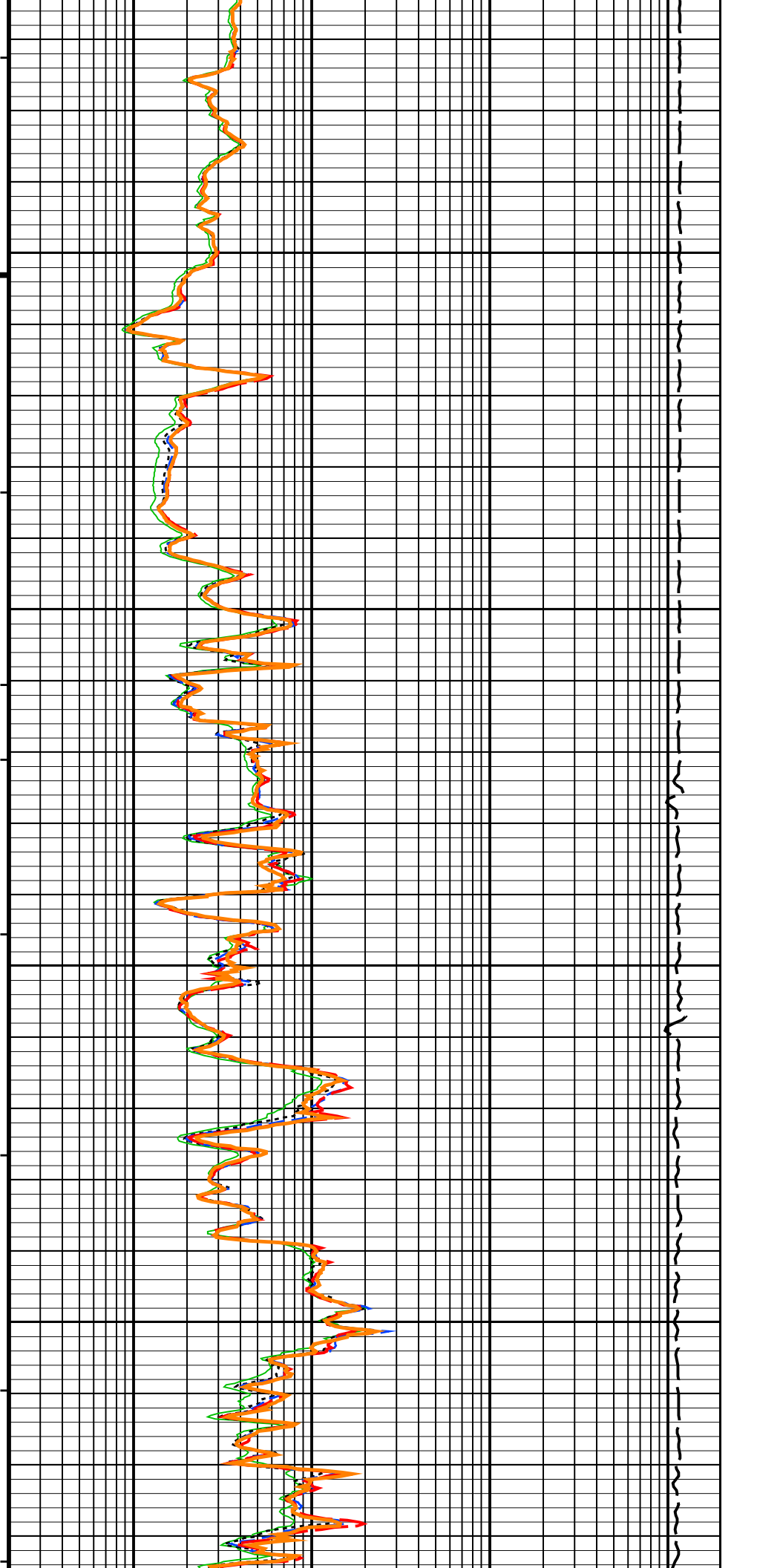


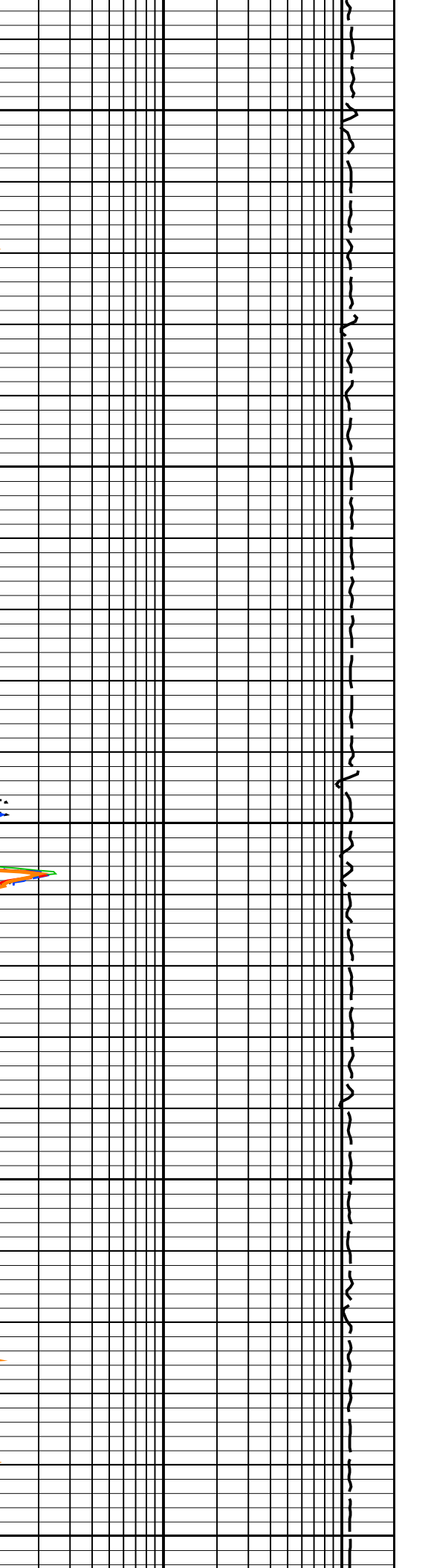
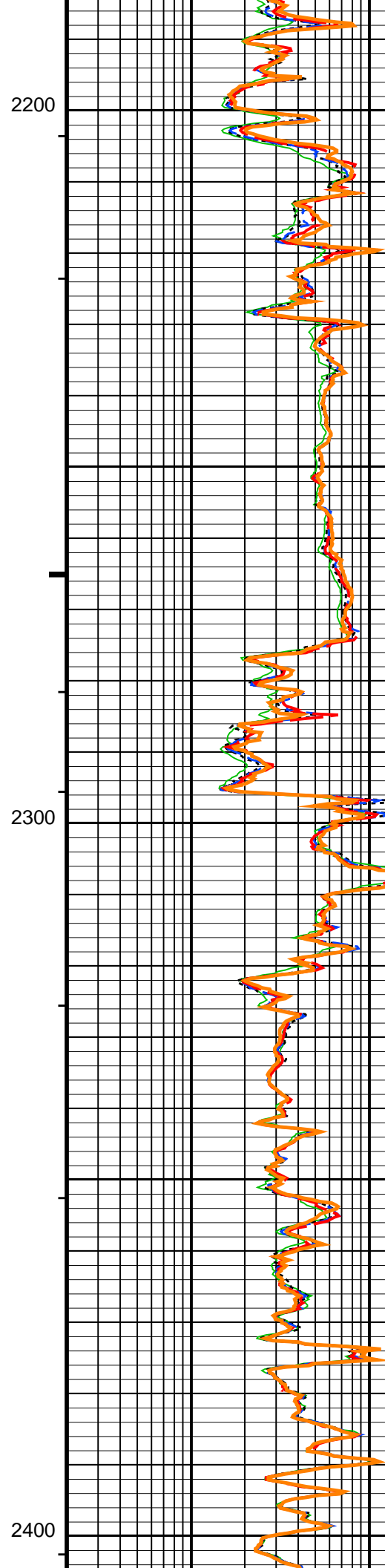
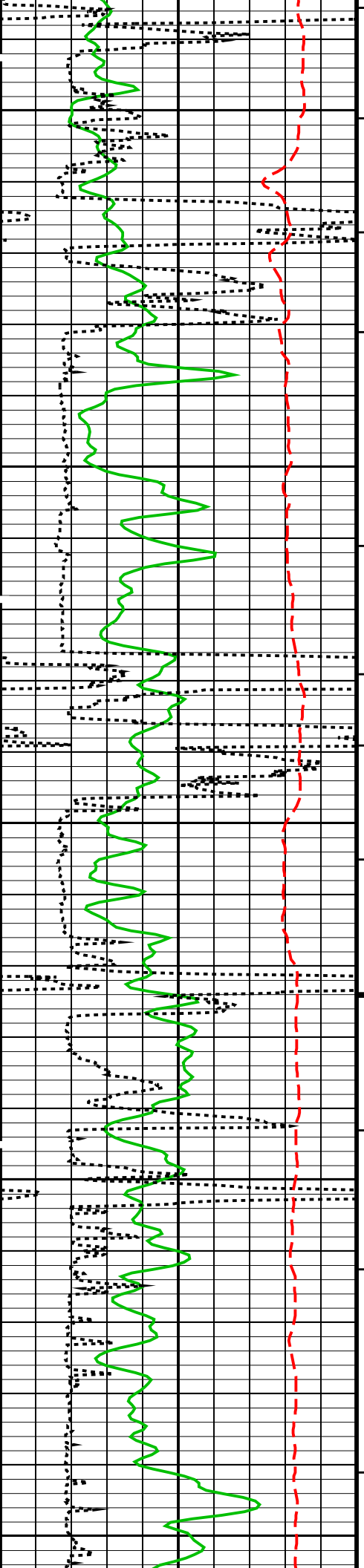


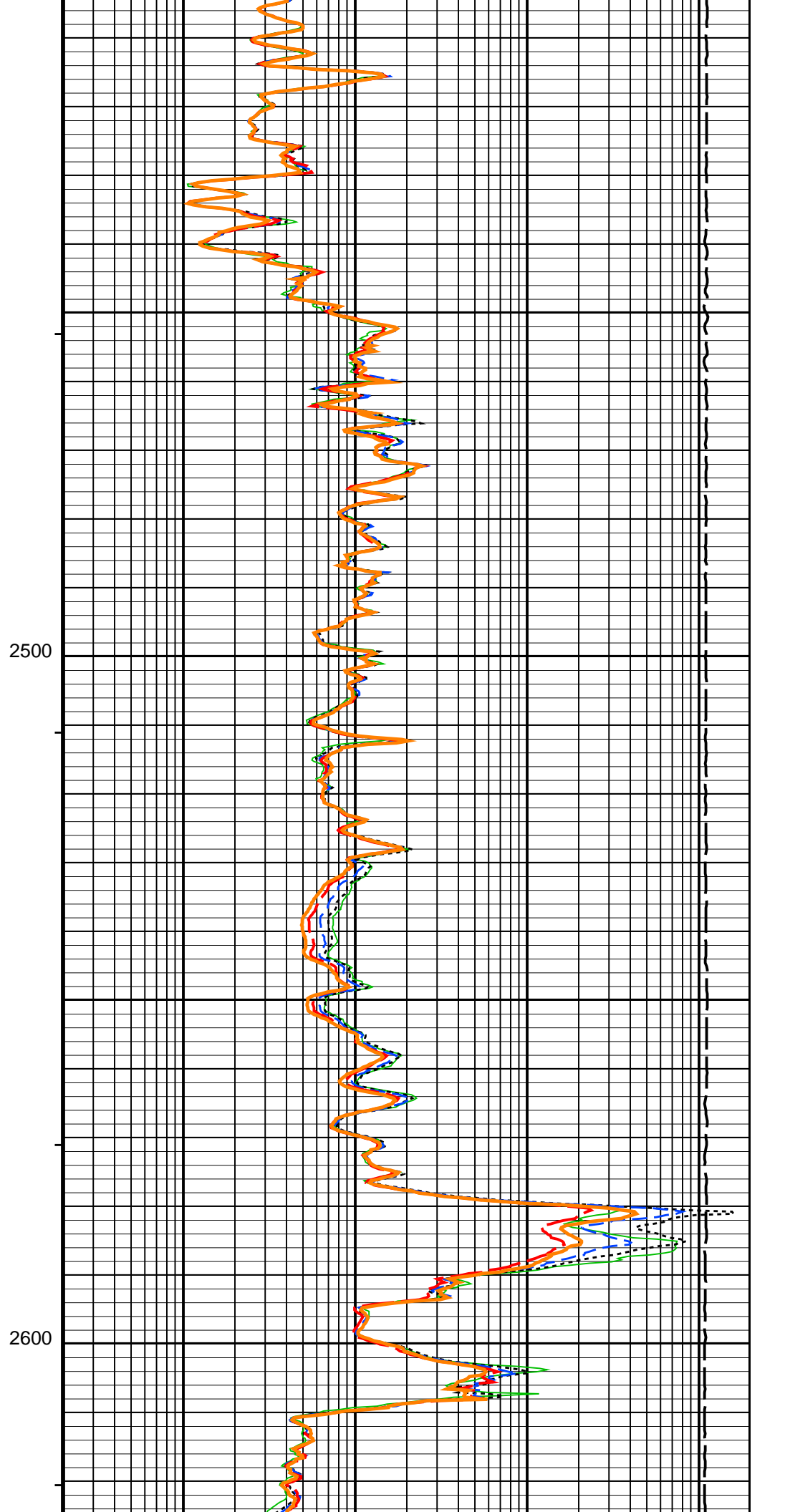
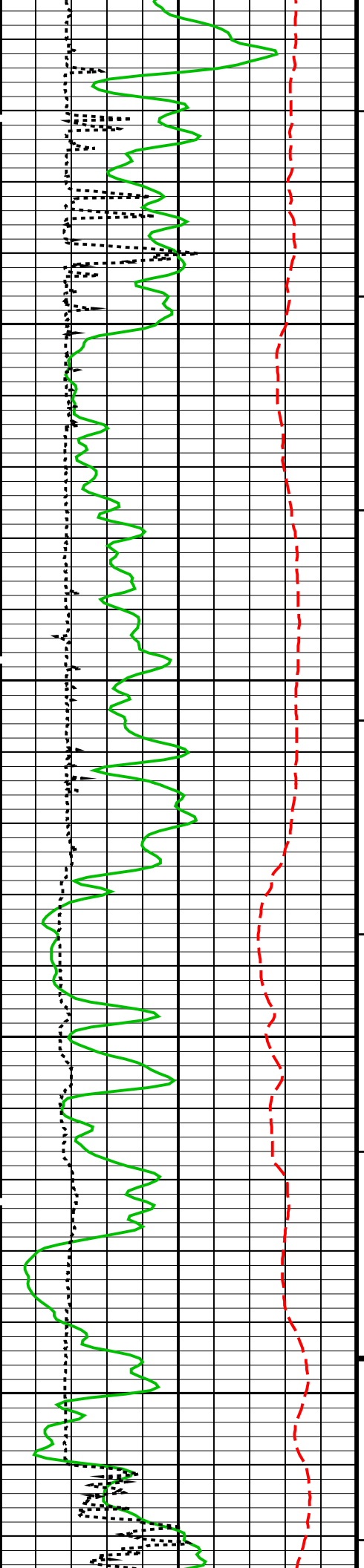


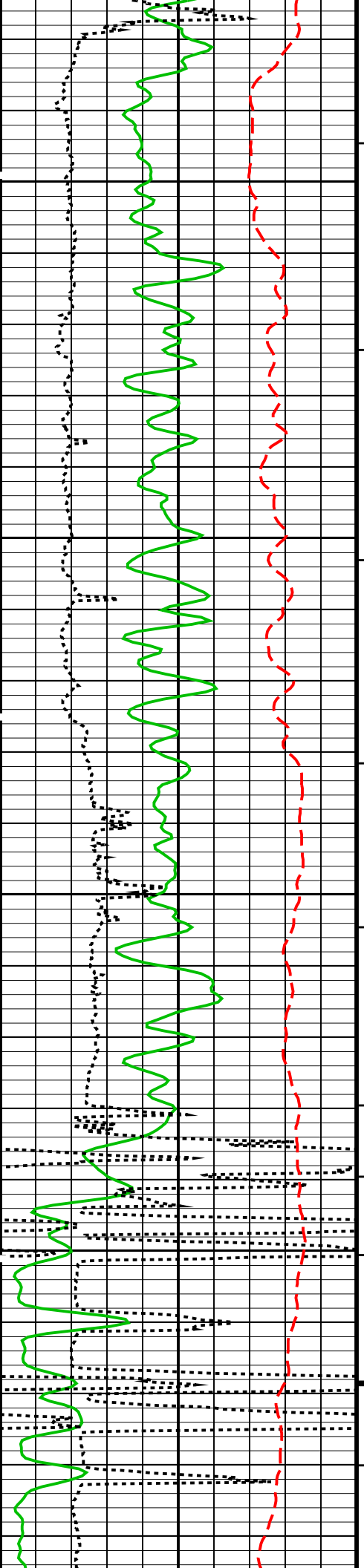
2000

2100



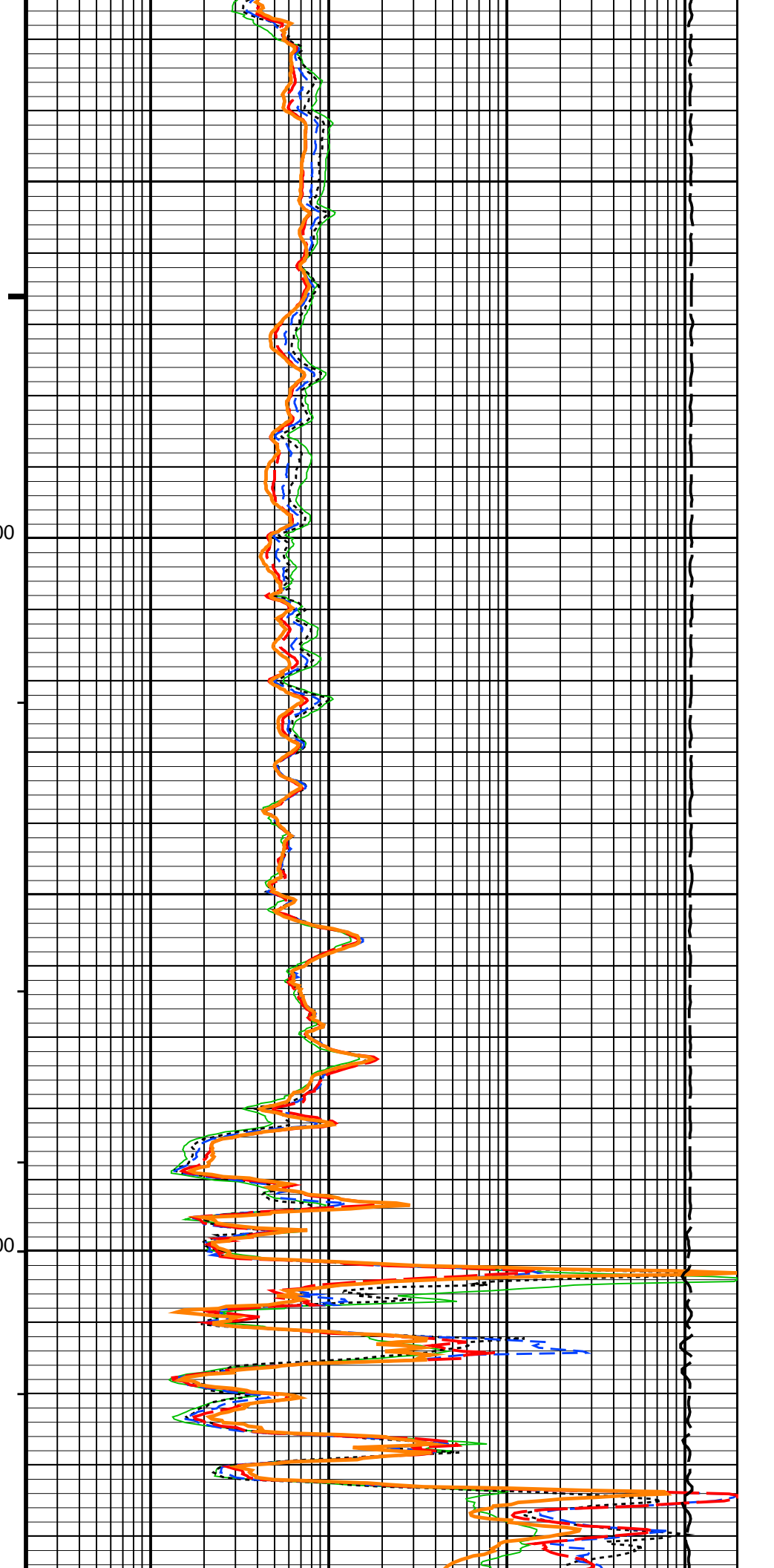


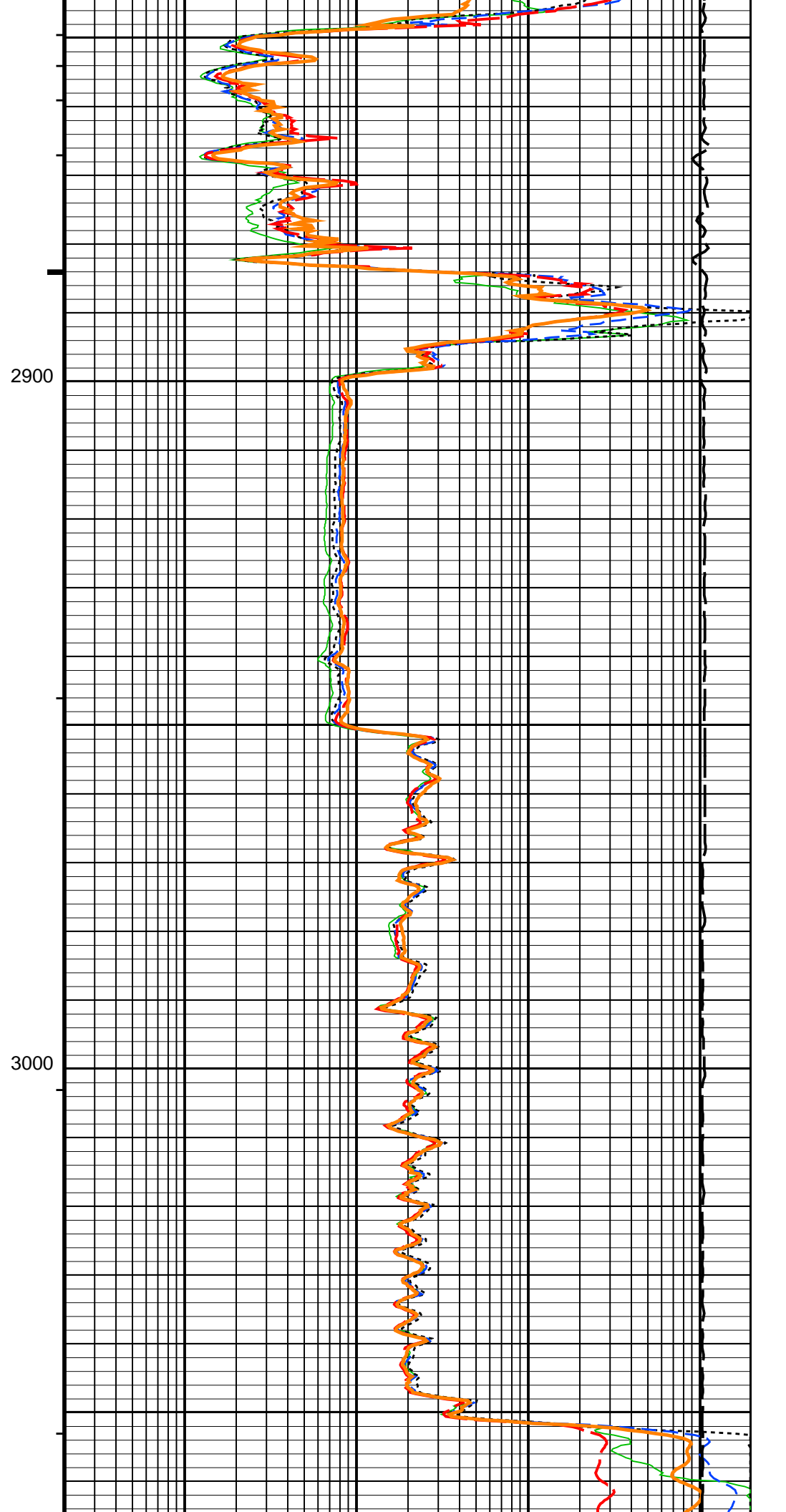
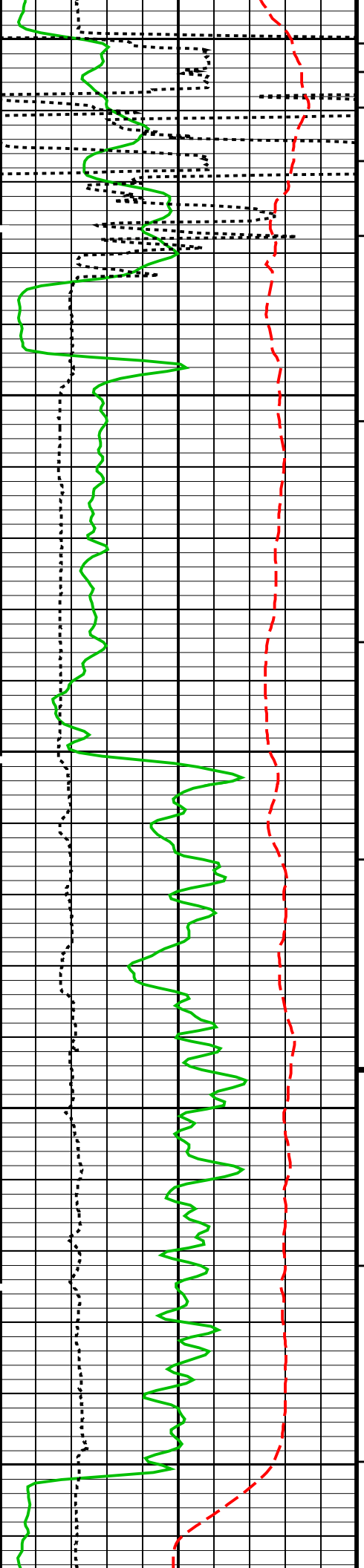


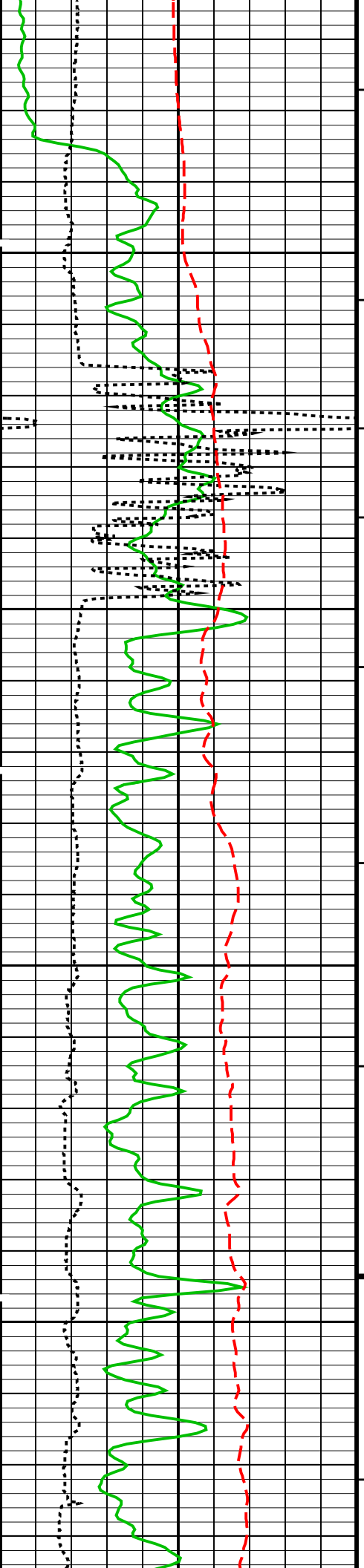


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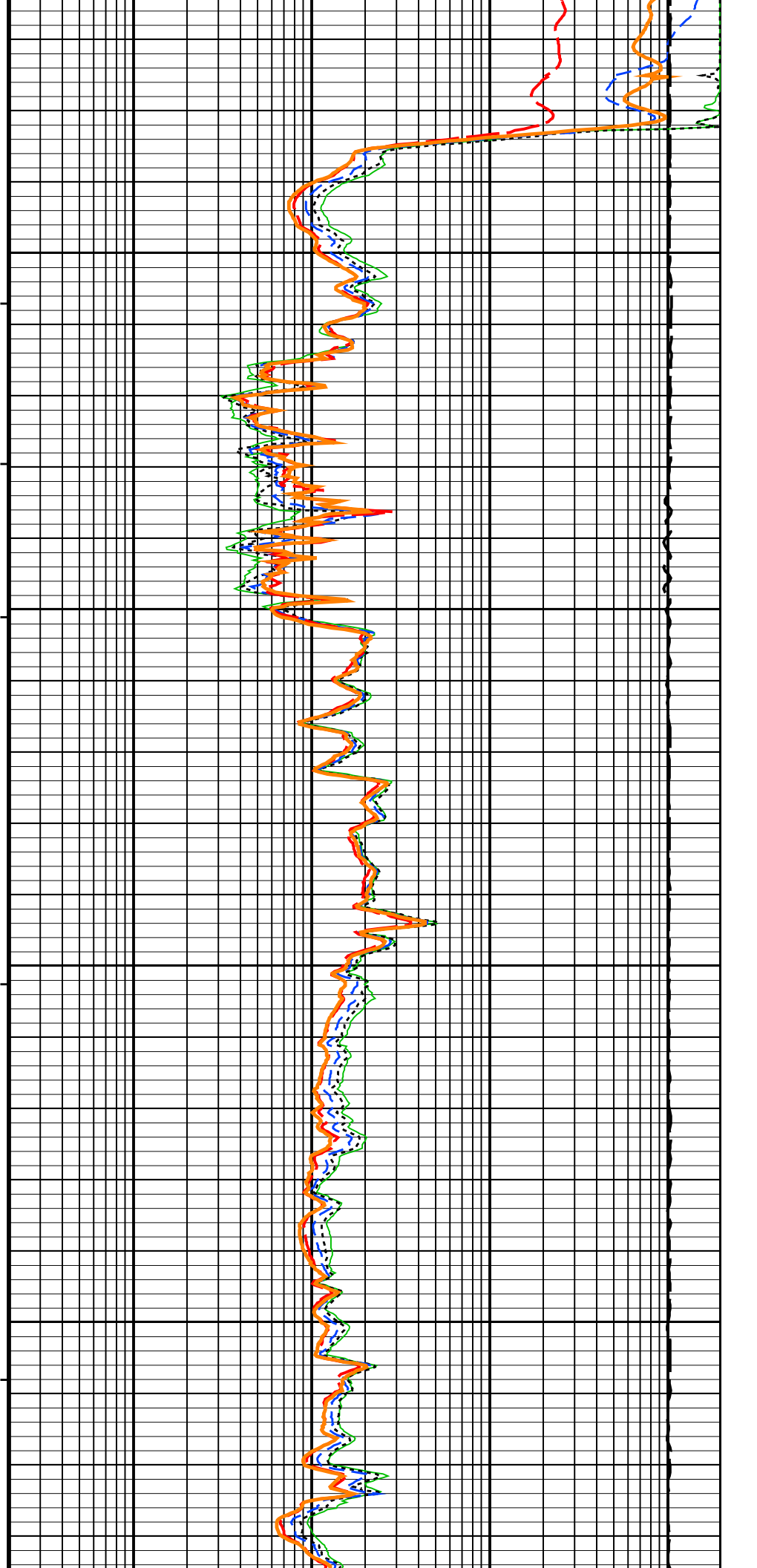


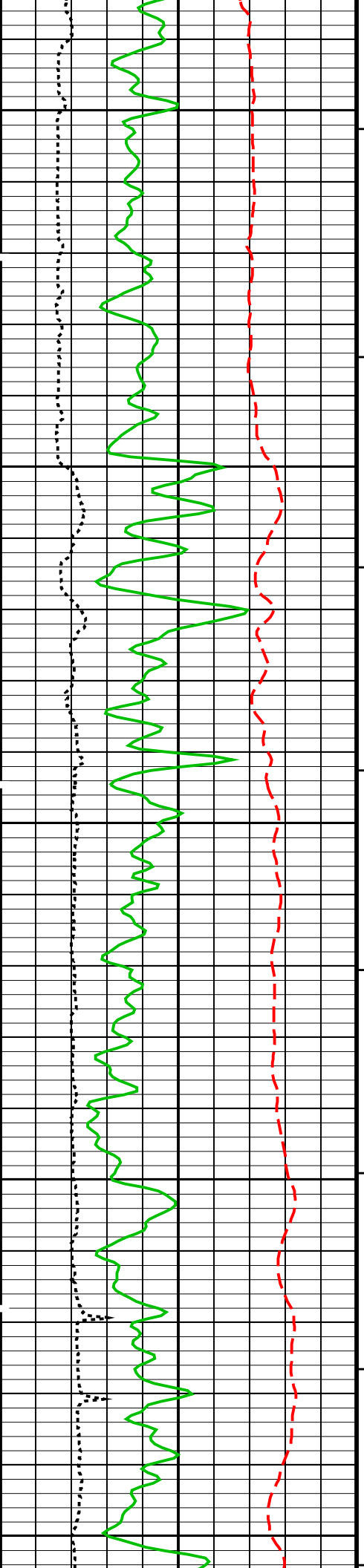




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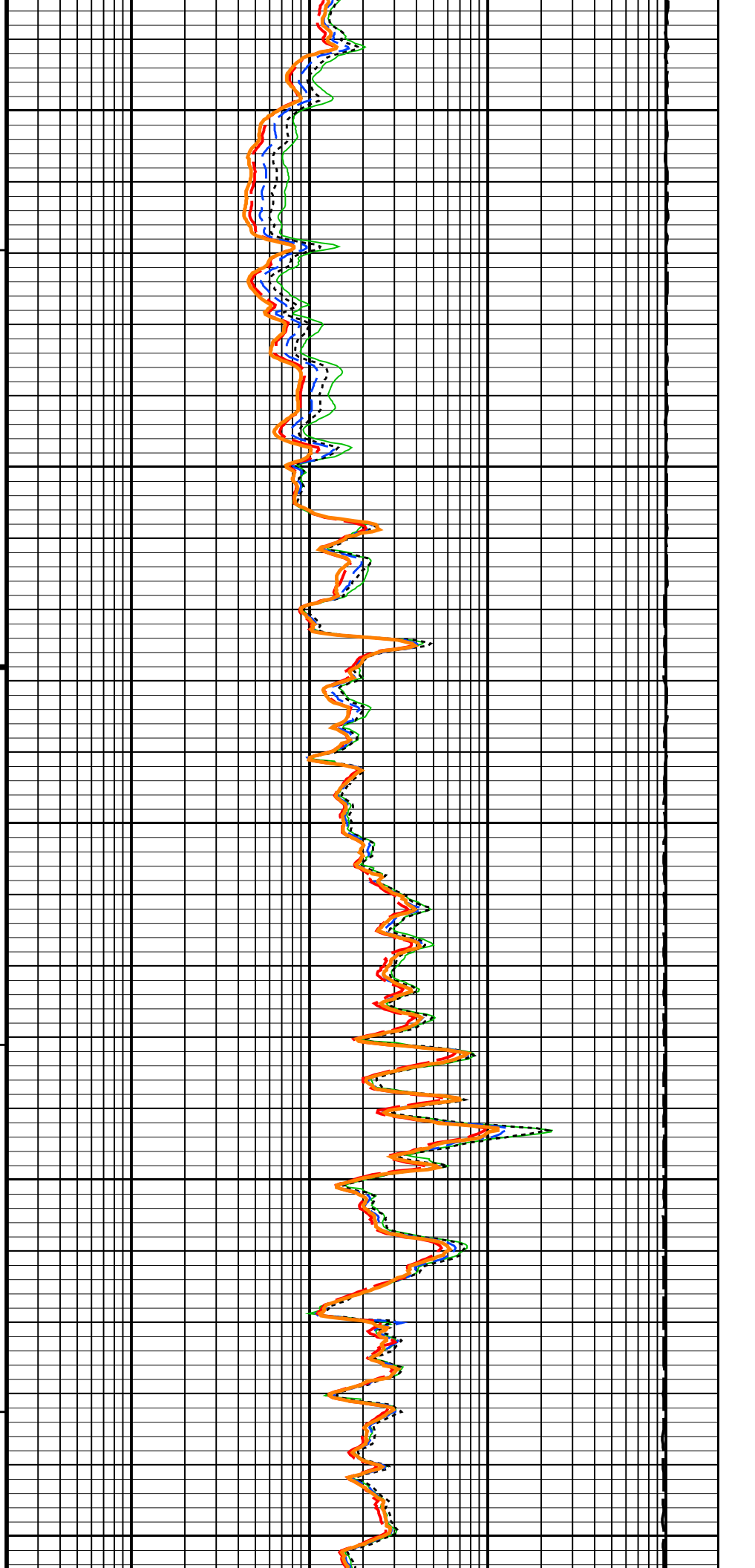


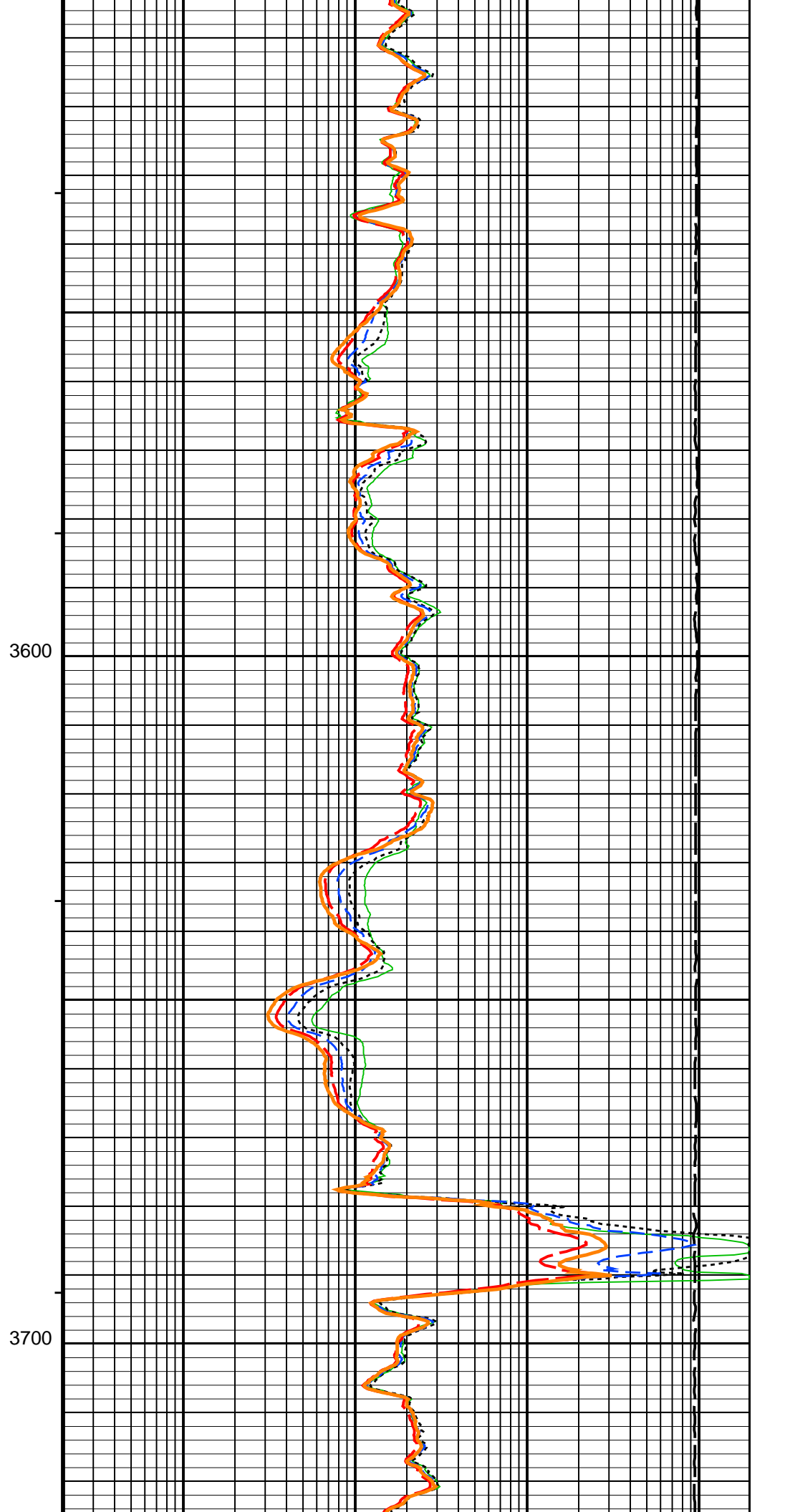
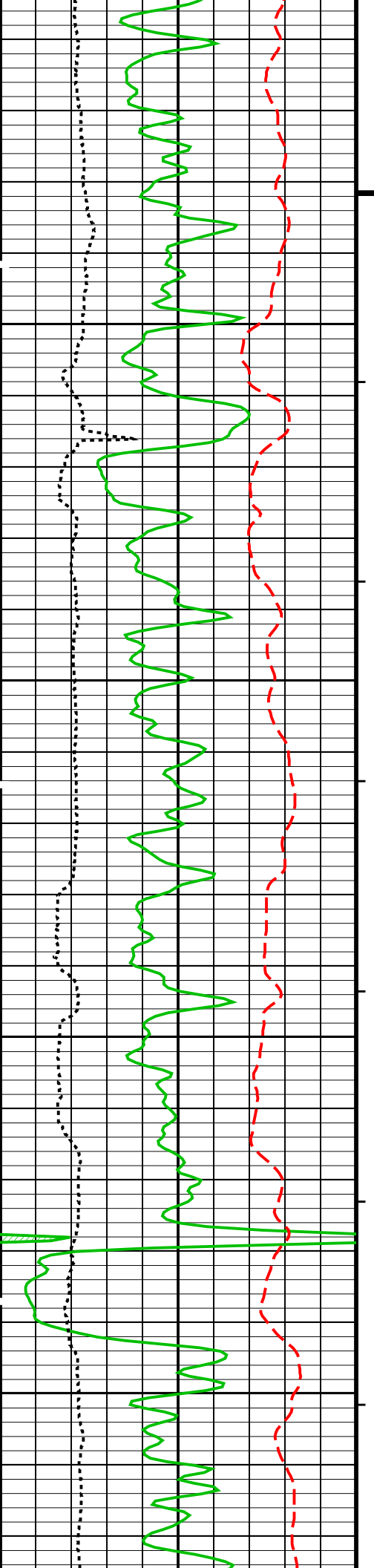


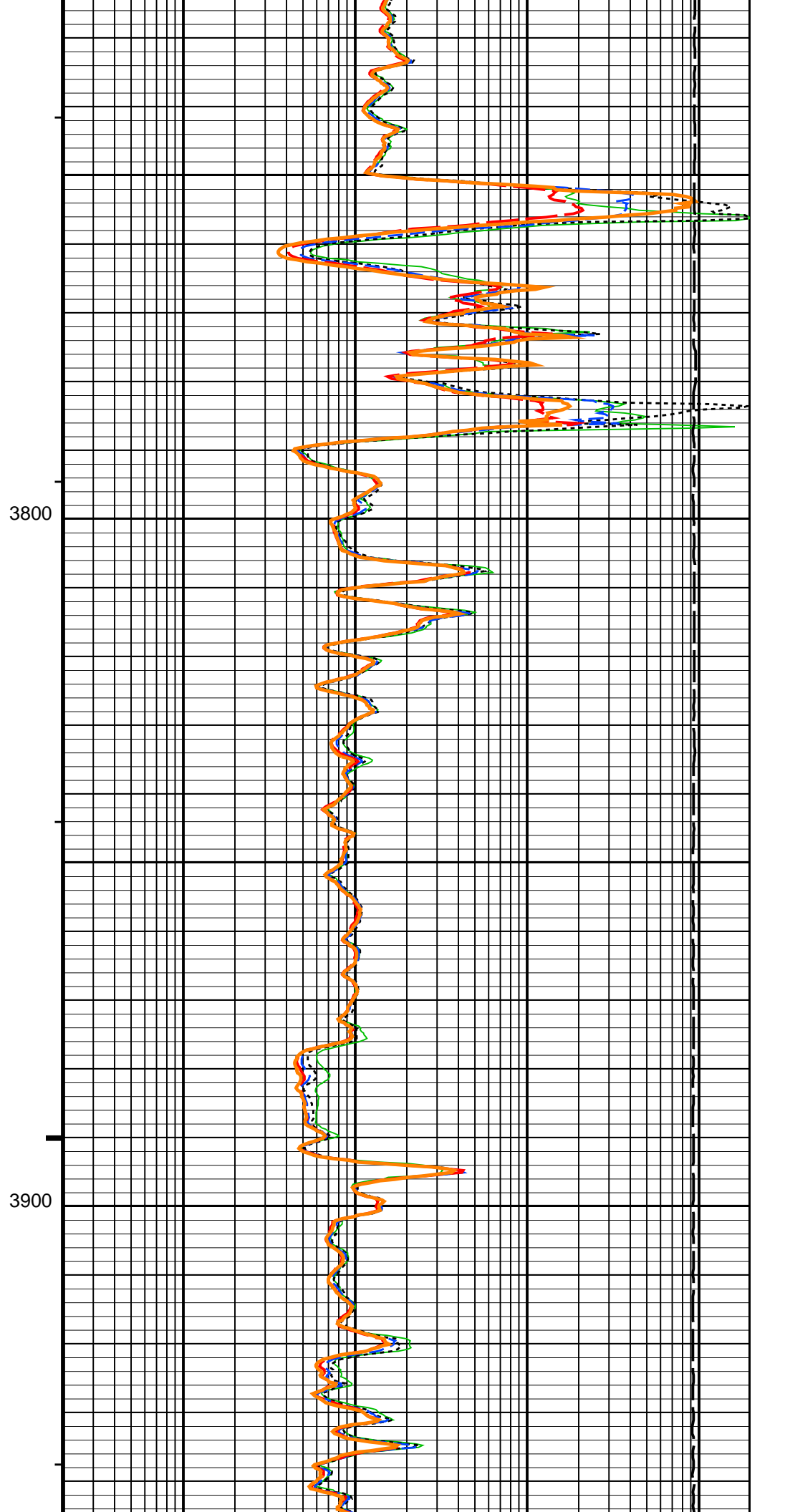
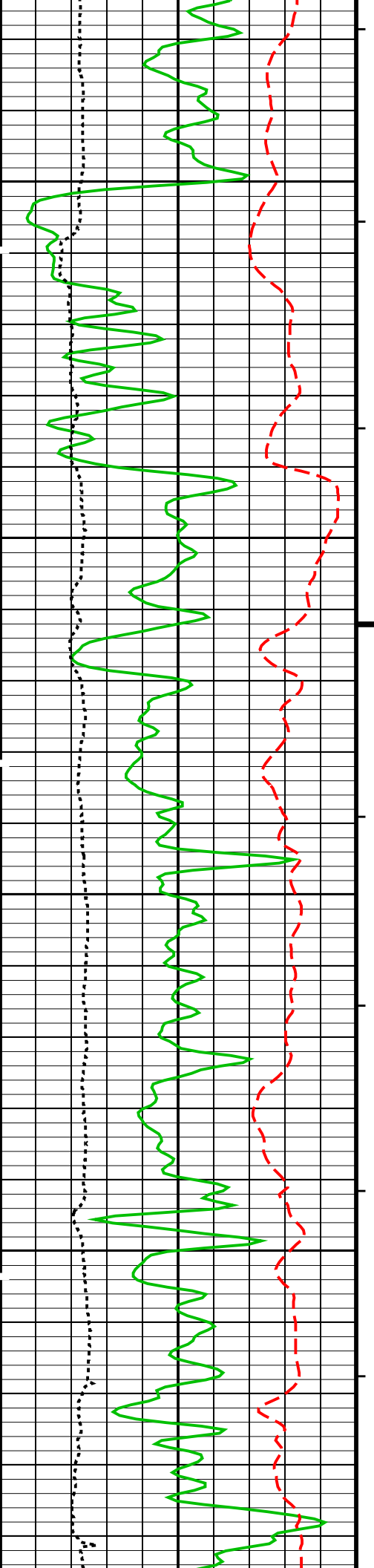
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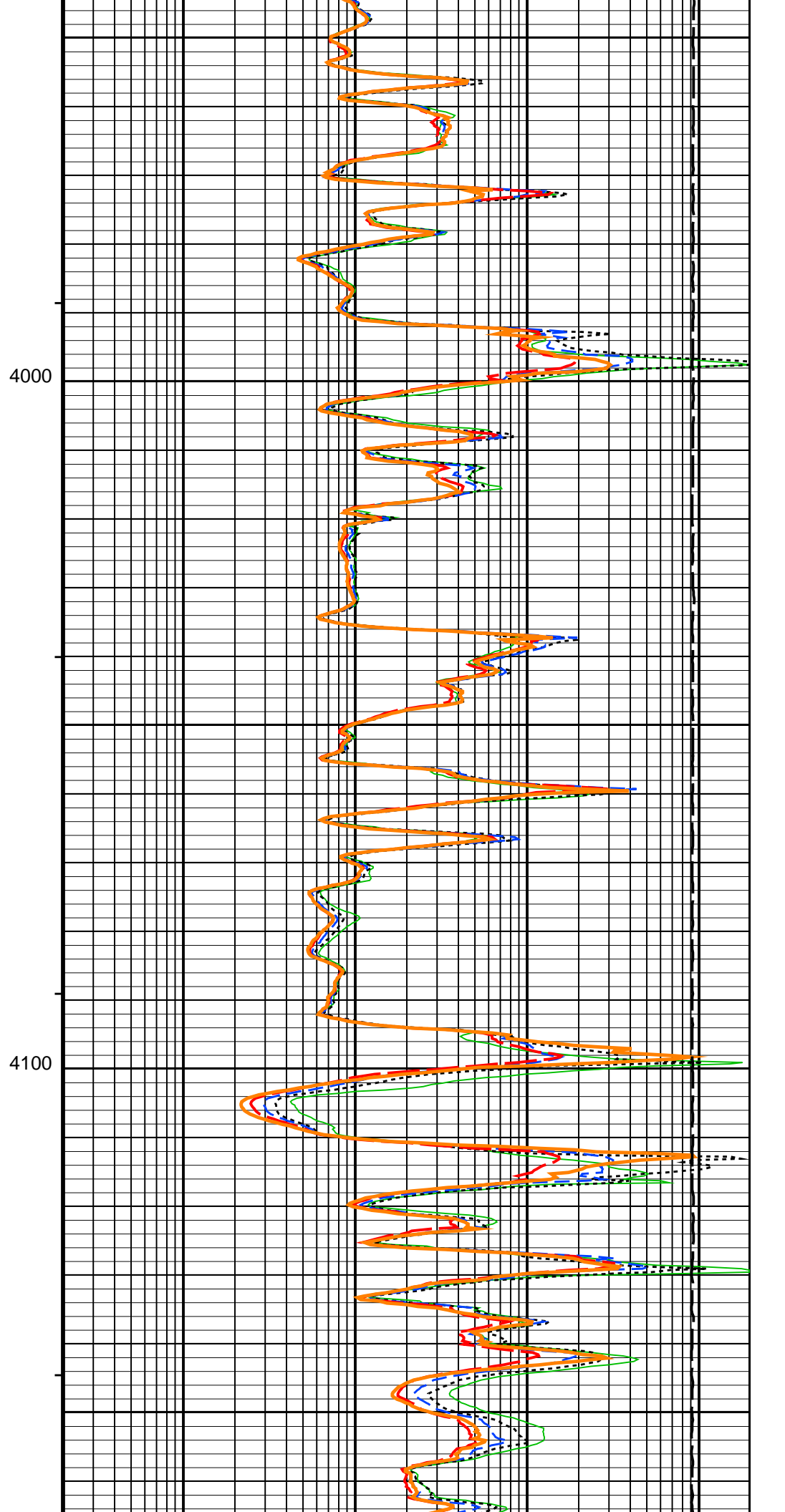
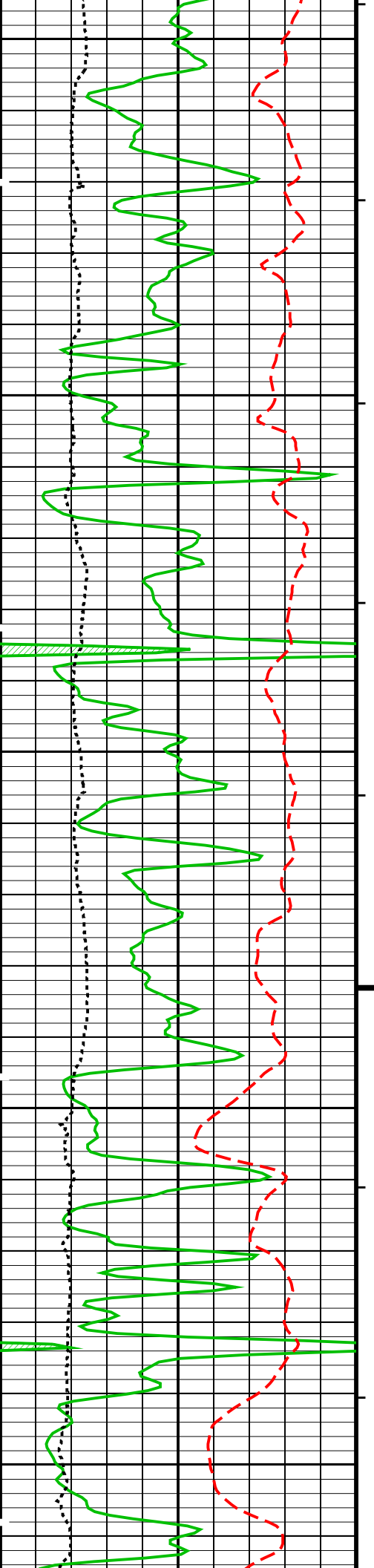
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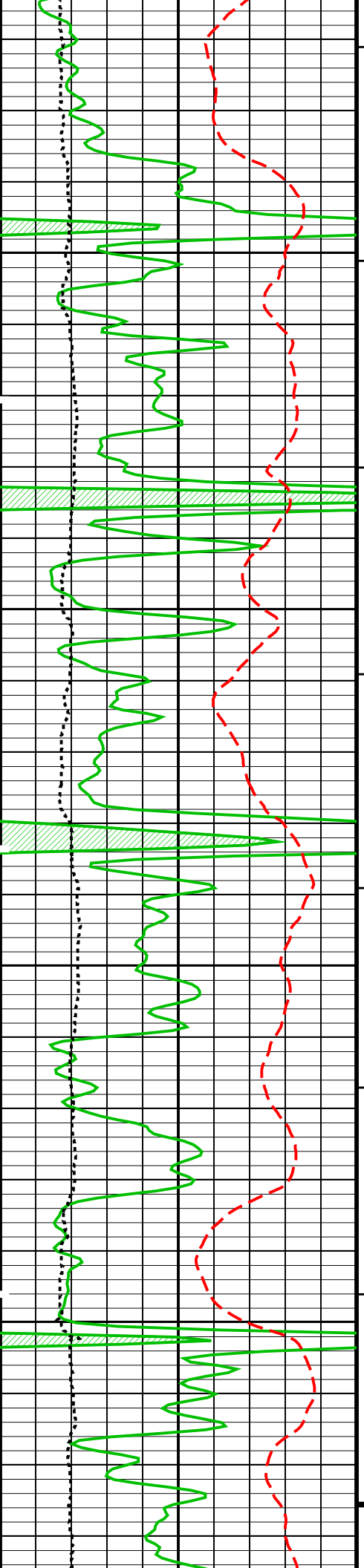
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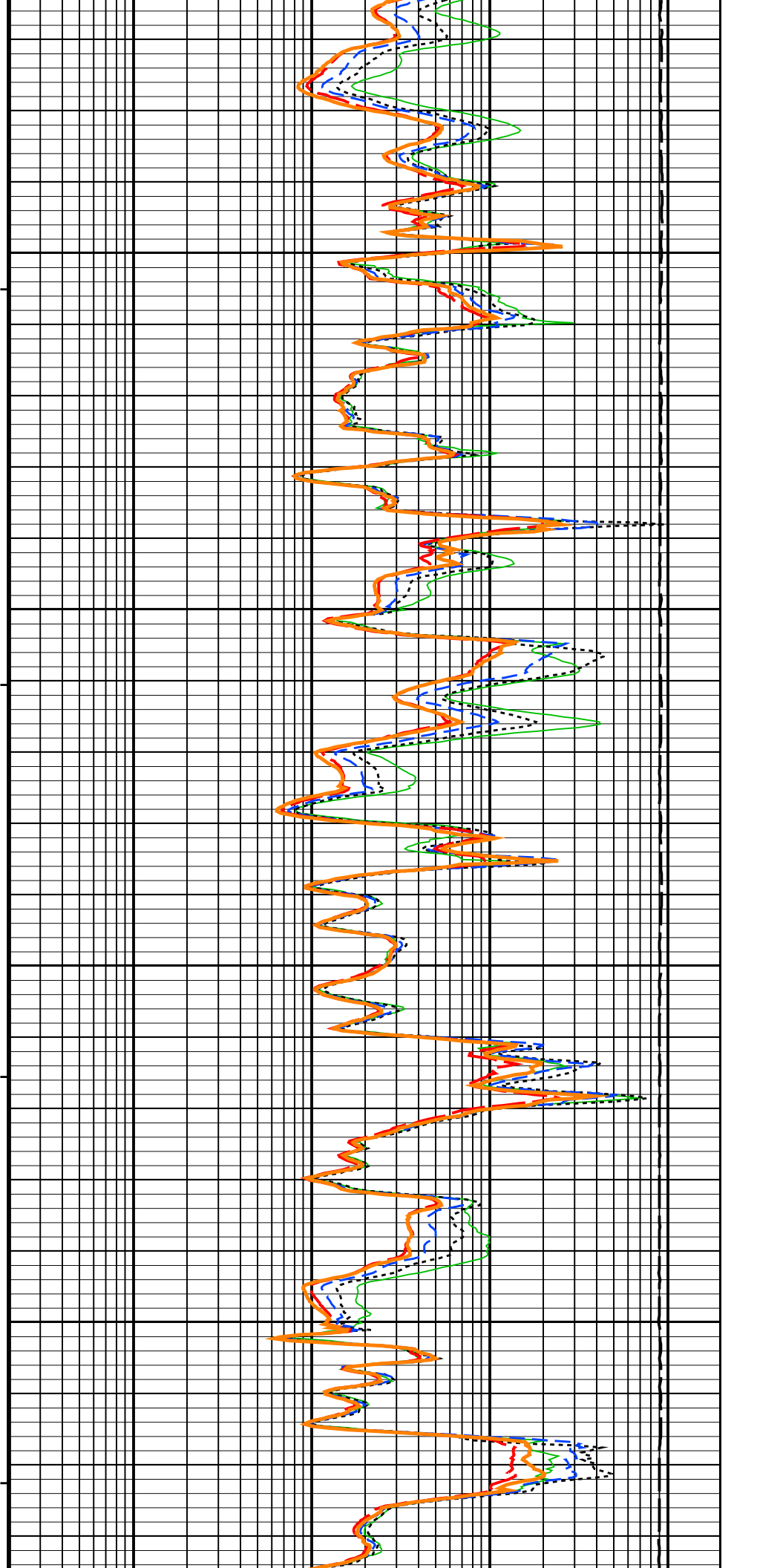


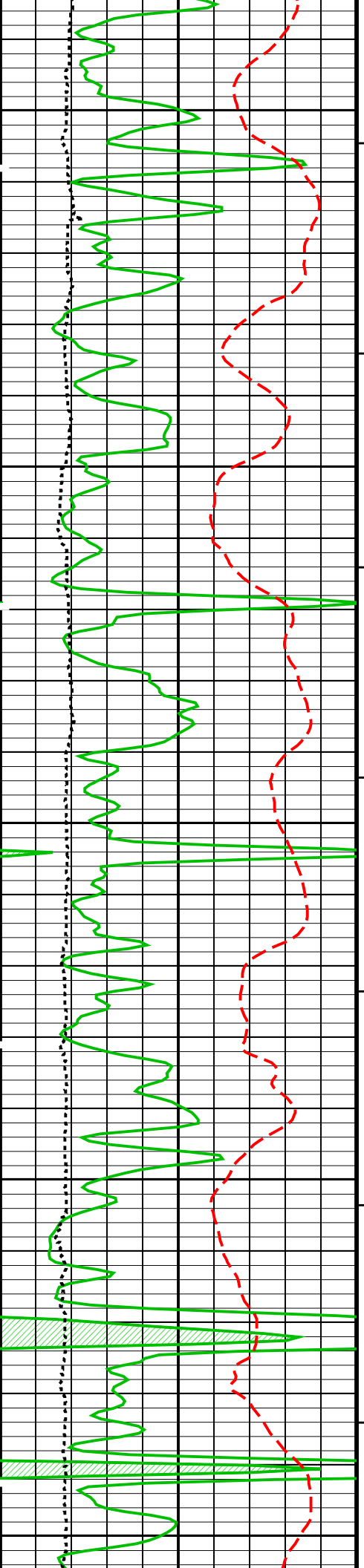




4200

4300

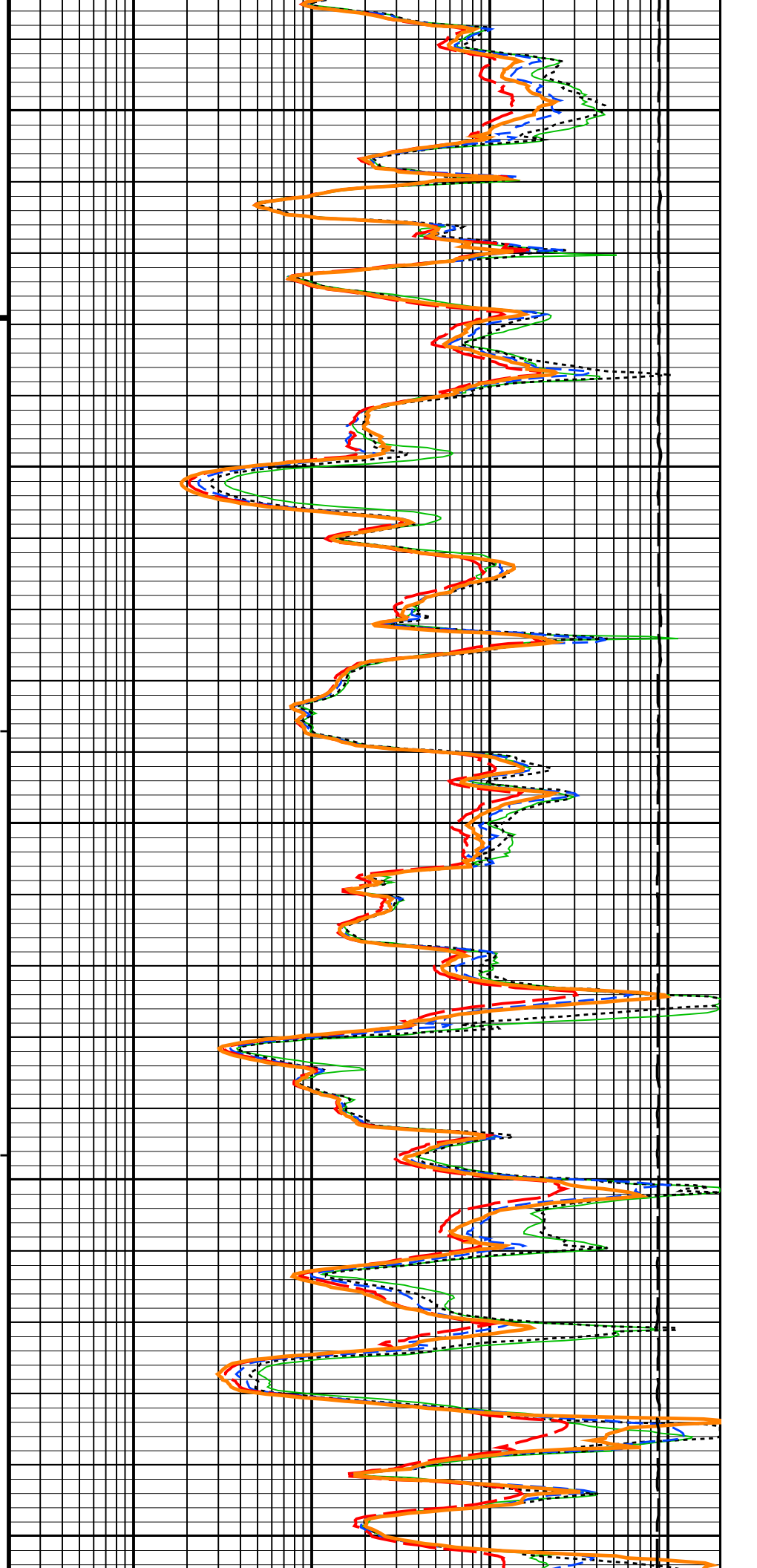


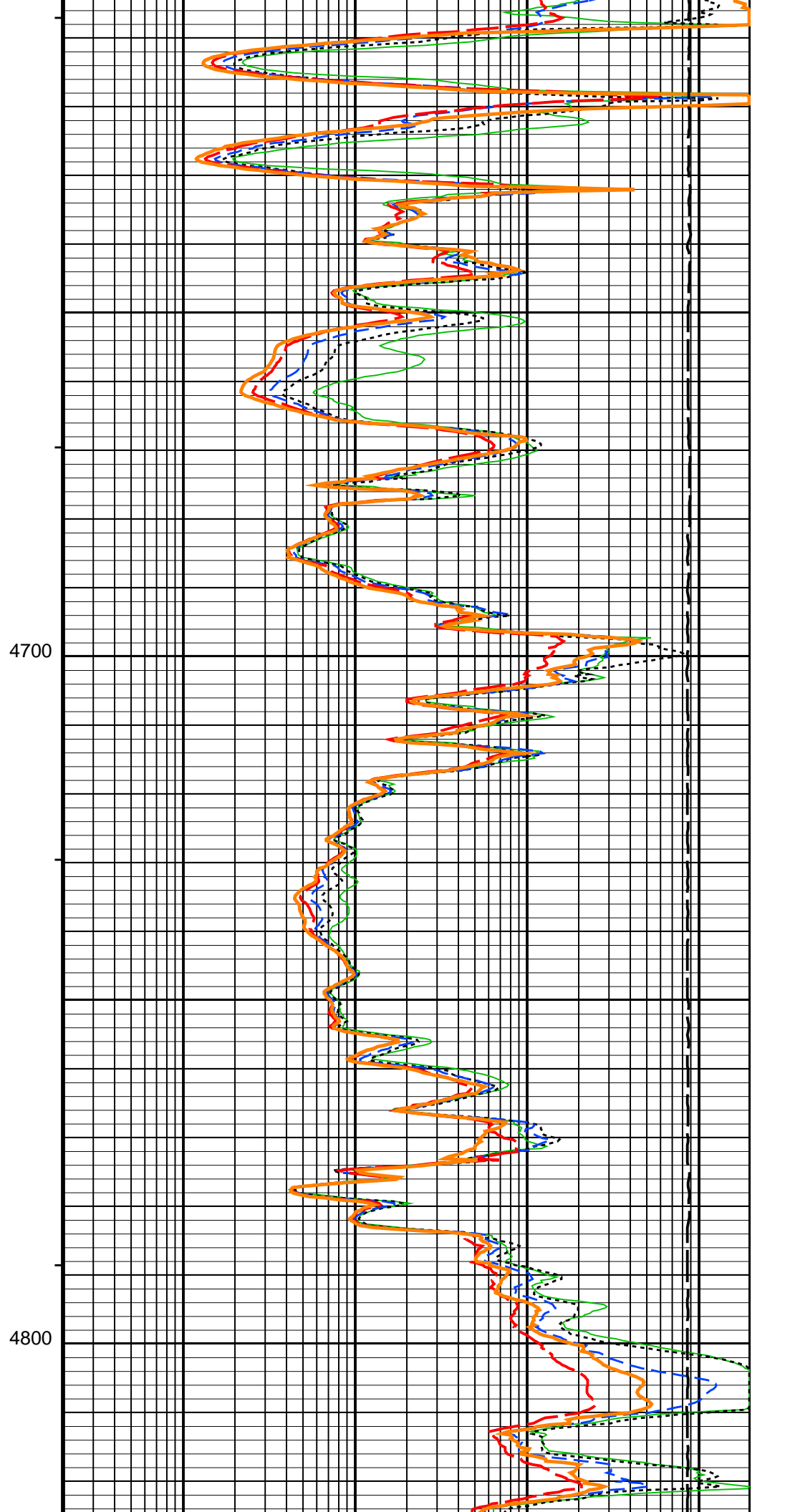
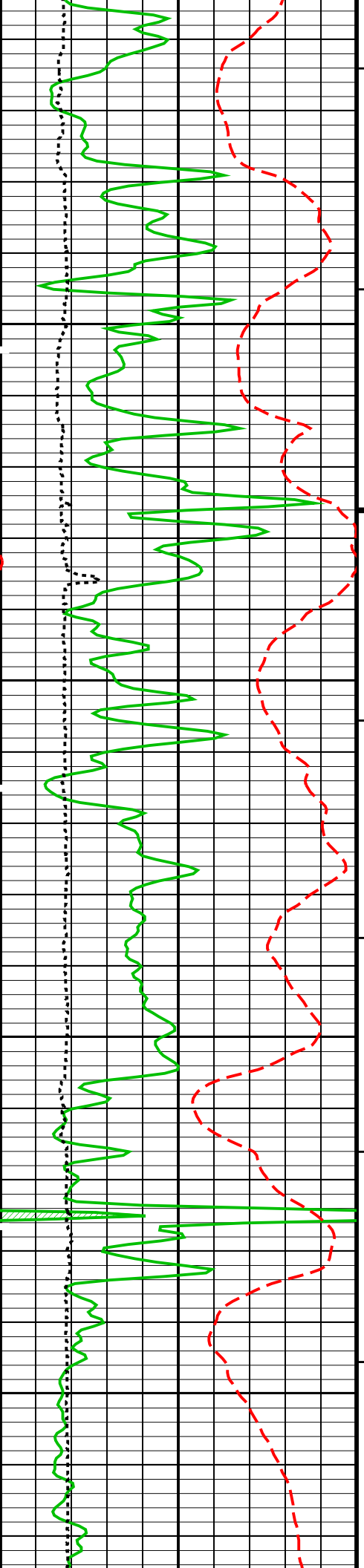


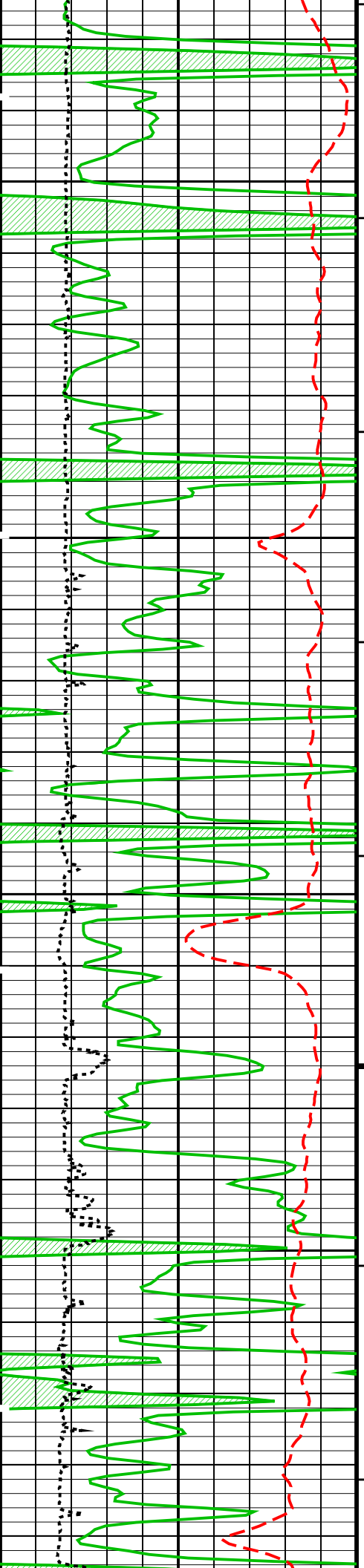
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4500

4600

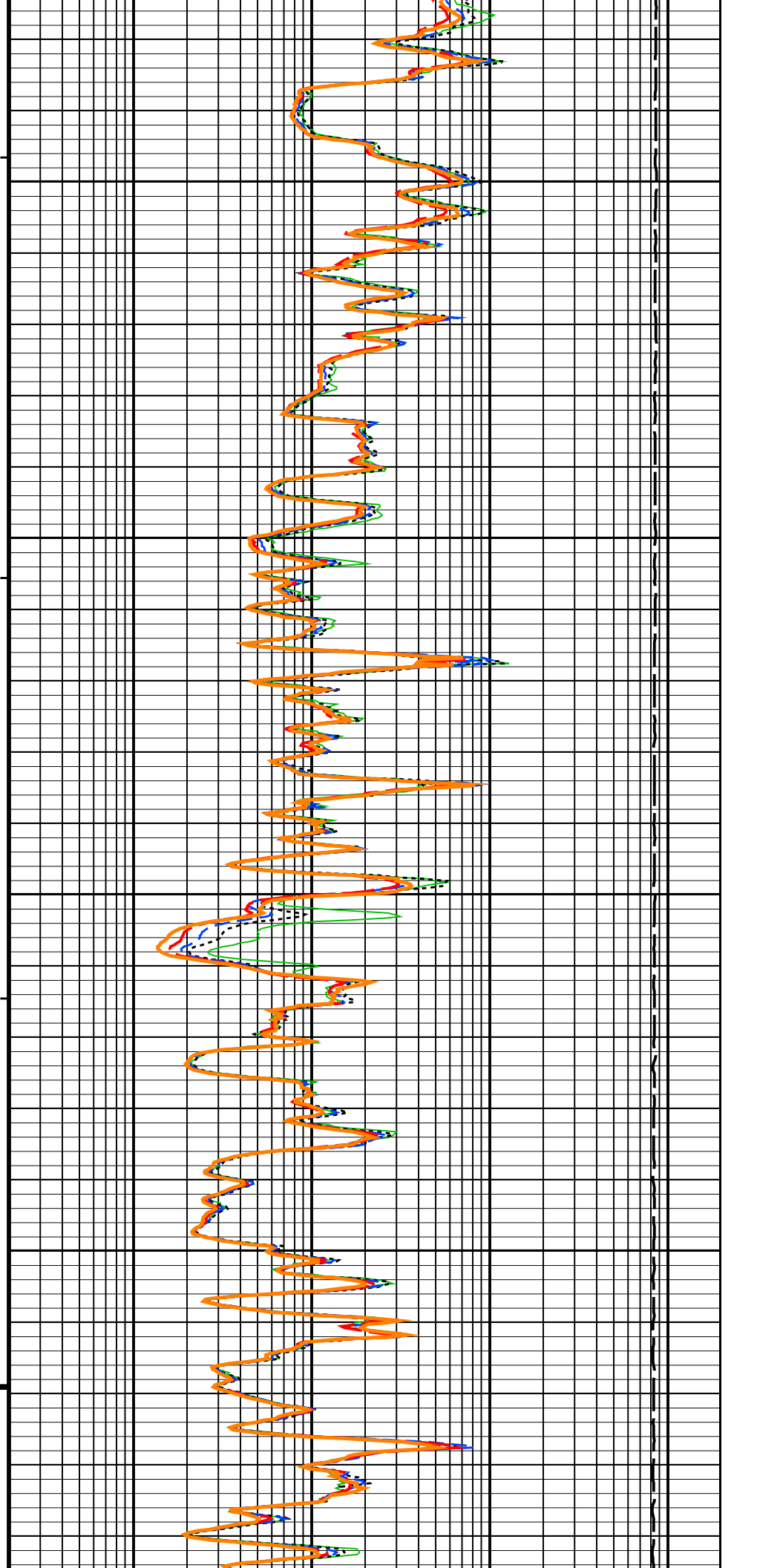


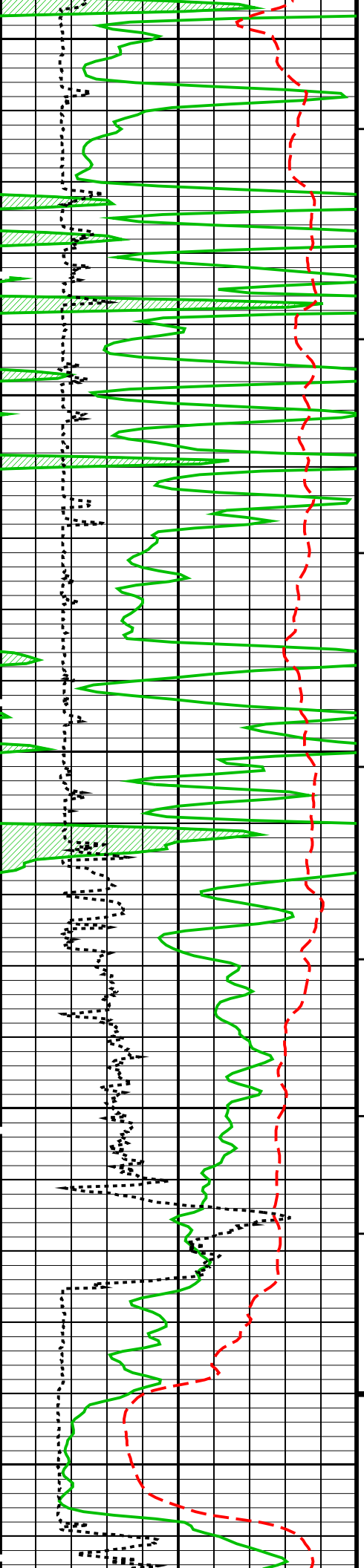




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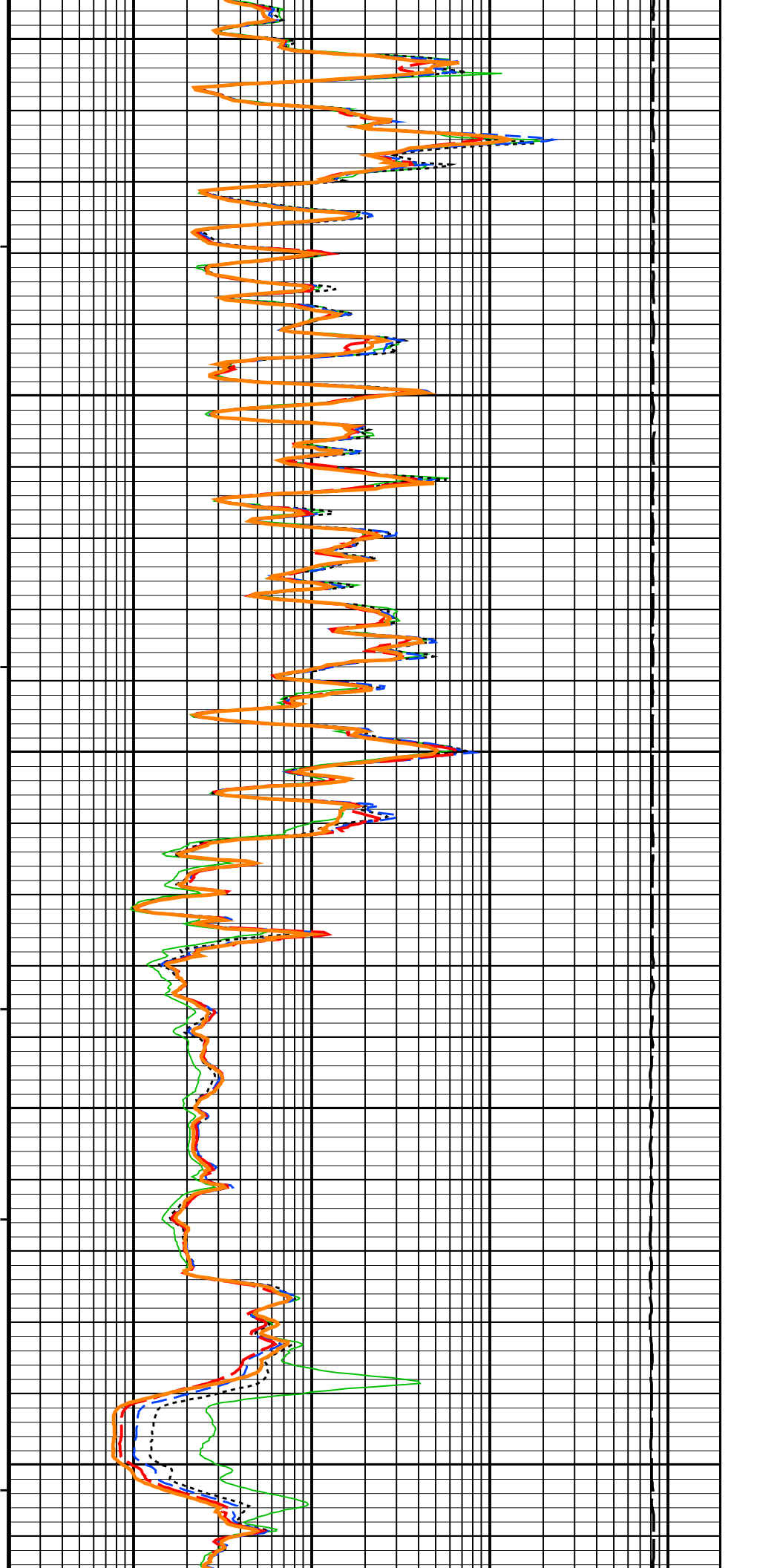
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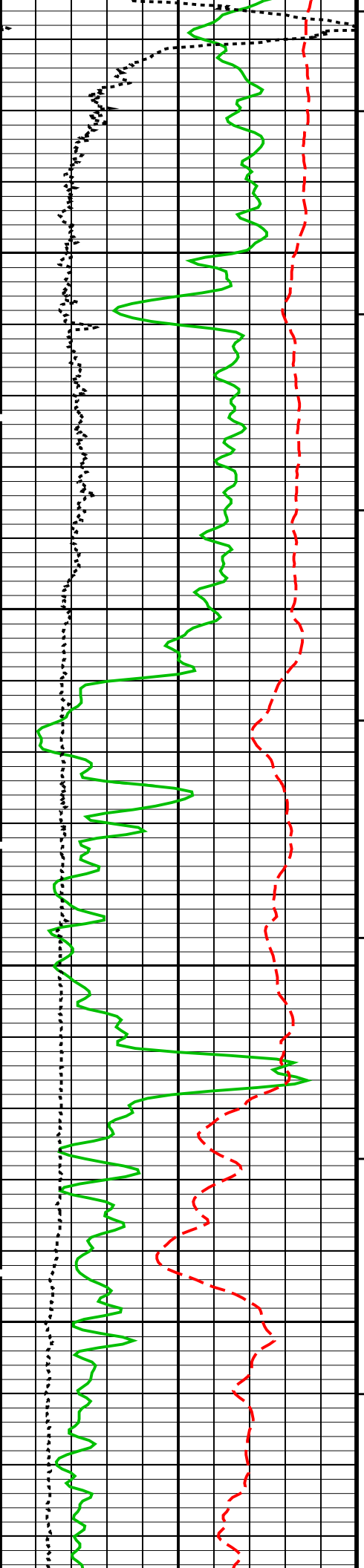




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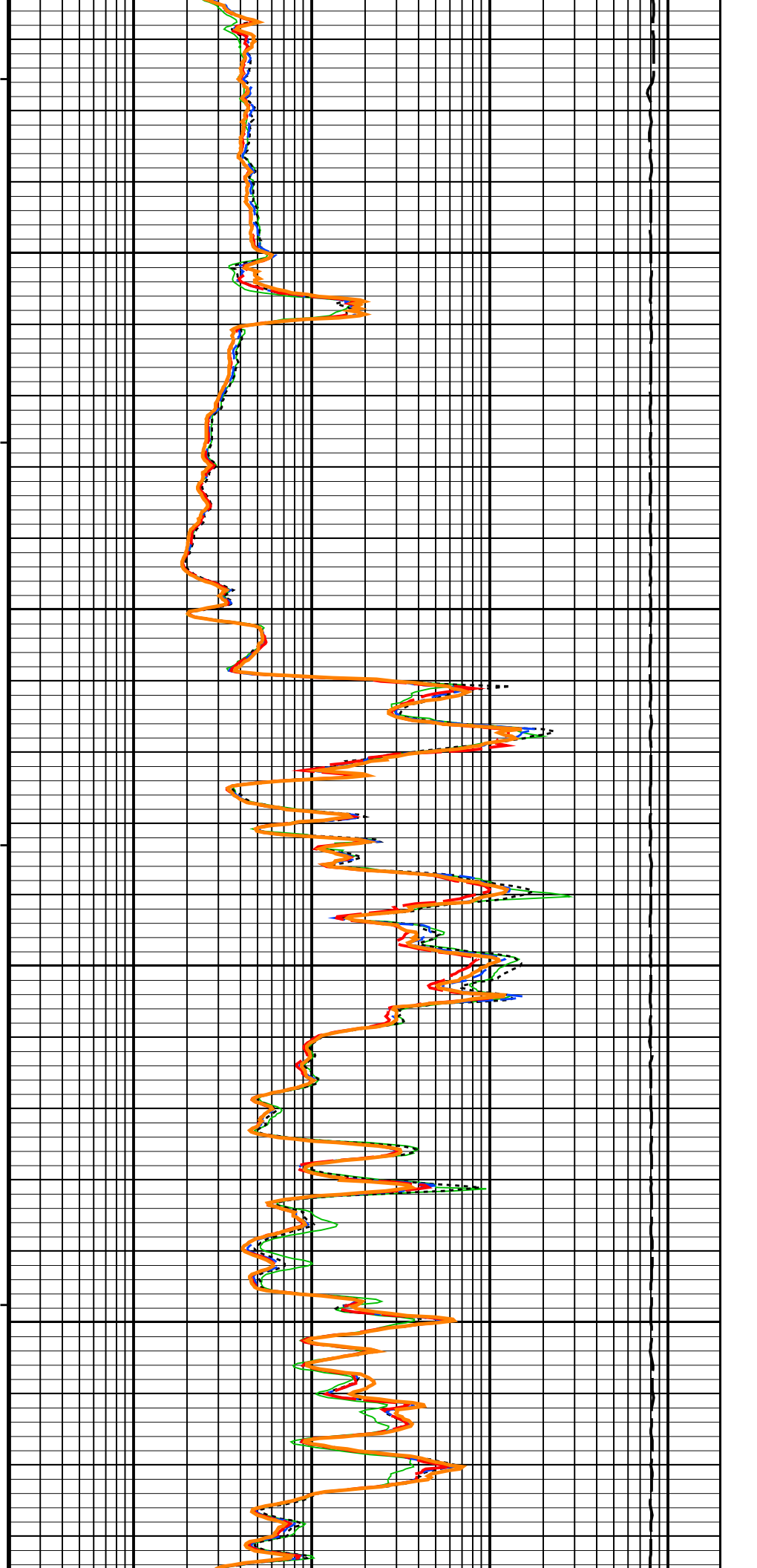
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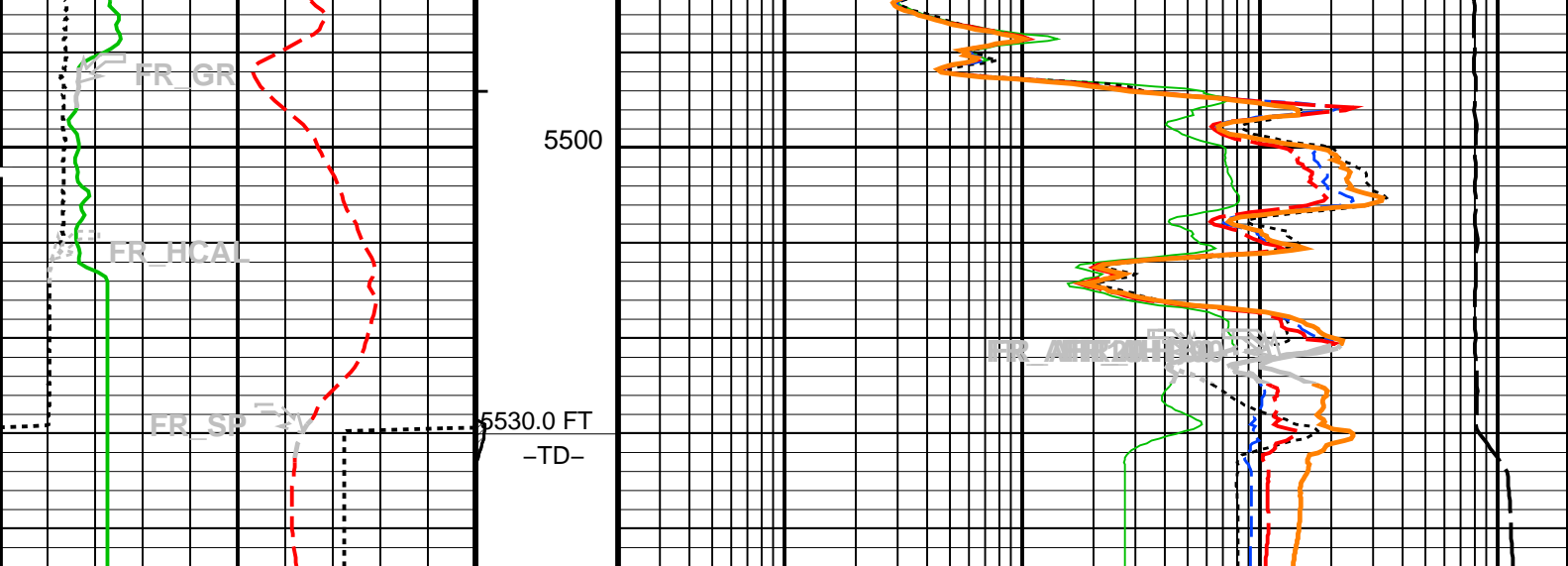




5300

5400





MAIN PASS: \*\*\* PLATFORM EXPRESS – ARRAY INDUCTION \*\*\*

Gamma Ray Backup	Cable Drag	0.2	AIT-H 10 Inch Investigation (AHT10) (OHMM)	2000
Gamma Ray (GR) (GAPI)	Tool/Tot. Drag	0.2	AIT-H 20 Inch Investigation (AHT20) (OHMM)	2000
Caliper (HCAL) (IN)	Stuck Stretch (STIT) (F)	0.2	AIT-H 30 Inch Investigation (AHT30) (OHMM)	2000
SP (AHSCA) (MV)		0.2	AIT-H 60 Inch Investigation (AHT60) (OHMM)	2000
		0.2	AIT-H 90 Inch Investigation (AHT90) (OHMM)	2000
		10000	Tension (TENS) (LBF)	0

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 # 398 (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 7.88 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) 0.766 OHMM Mud Filtrate Sample Temperature (MFST) 80.125 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)	180.64	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	5536.00	FT
TDL	Total Depth - Logger	5530.00	FT
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	180.64	DEGF
FCD	Future Casing (Outer) Diameter	5.5	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	
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			
BHT	Bottom Hole Temperature (used in calculations)	180.64	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	7.875	IN
DFD	Drilling Fluid Density	9.20	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	80.13	DEGF
TD	Total Depth	5530	FT

Format: GRES    Vertical Scale: 5" per 100'    Graphics File Created: 07-Jan-2011 22:18

## OP System Version: 18C0-147

HILTB-CTS    18C0-147

## Output DLIS Files

DEFAULT    AIT\_TLD\_MCFL\_CNL\_010LUP    FN:9    PRODUCER    07-Jan-2011 22:18

**Schlumberger**

**Repeat Analysis**

## Input DLIS Files

DEFAULT AIT\_TLD\_MCFL\_CNL\_009PUP FN:8 PRODUCER 07-Jan-2011 22:15 5547.0 FT 4846.0 FT

## Output DLIS Files

DEFAULT AIT\_TLD\_MCFL\_CNL\_010LUP FN:9 PRODUCER 07-Jan-2011 22:18

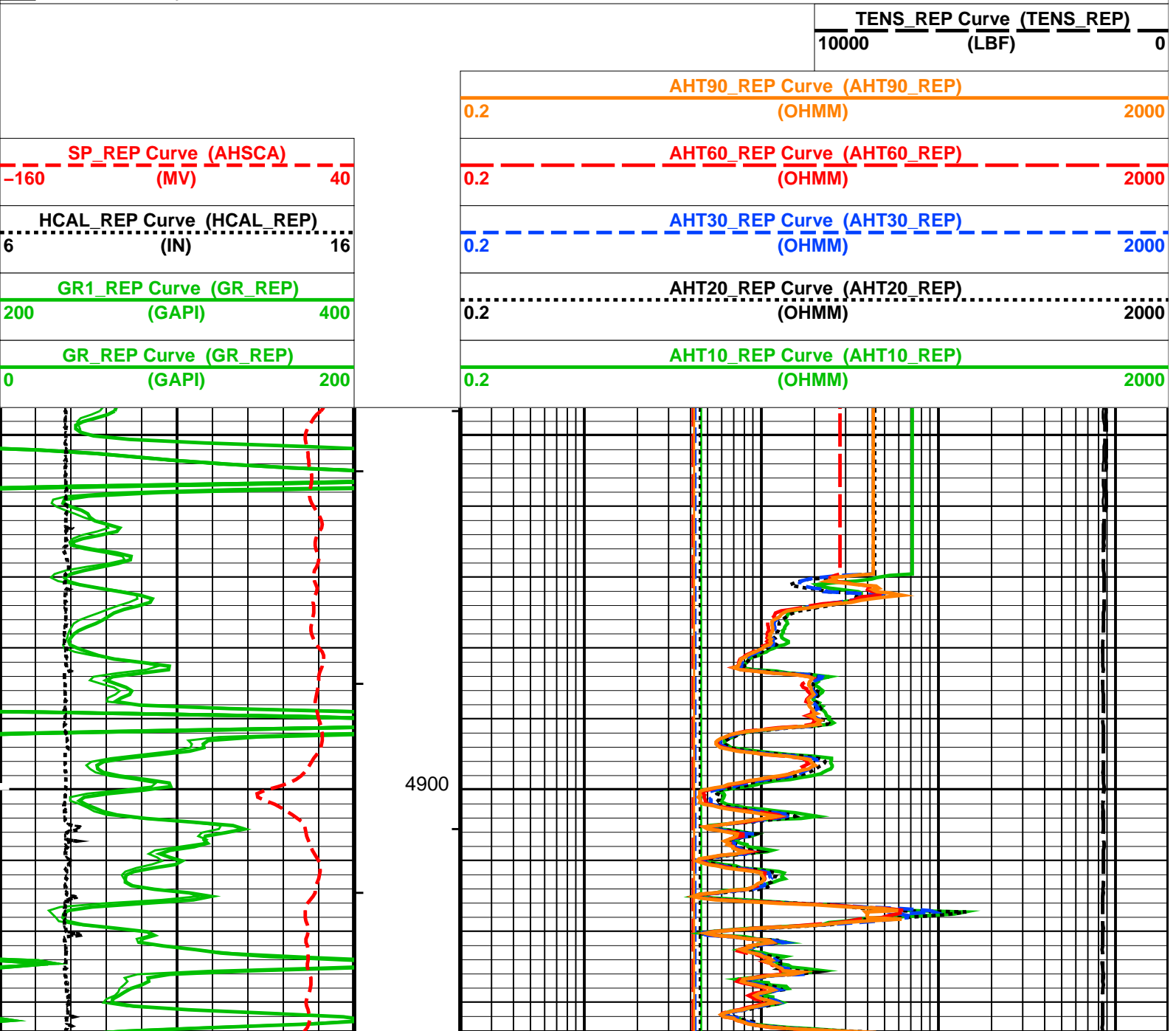
## OP System Version: 18C0-147

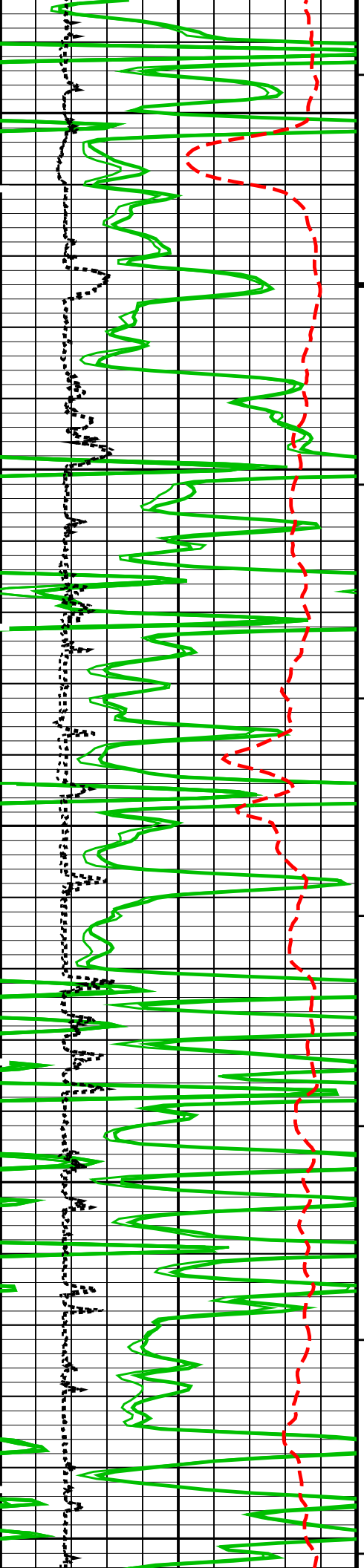
HILTB-CTS 18C0-147

## 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
  - └ Integrated Cement Volume Major Pip Every 100 F3

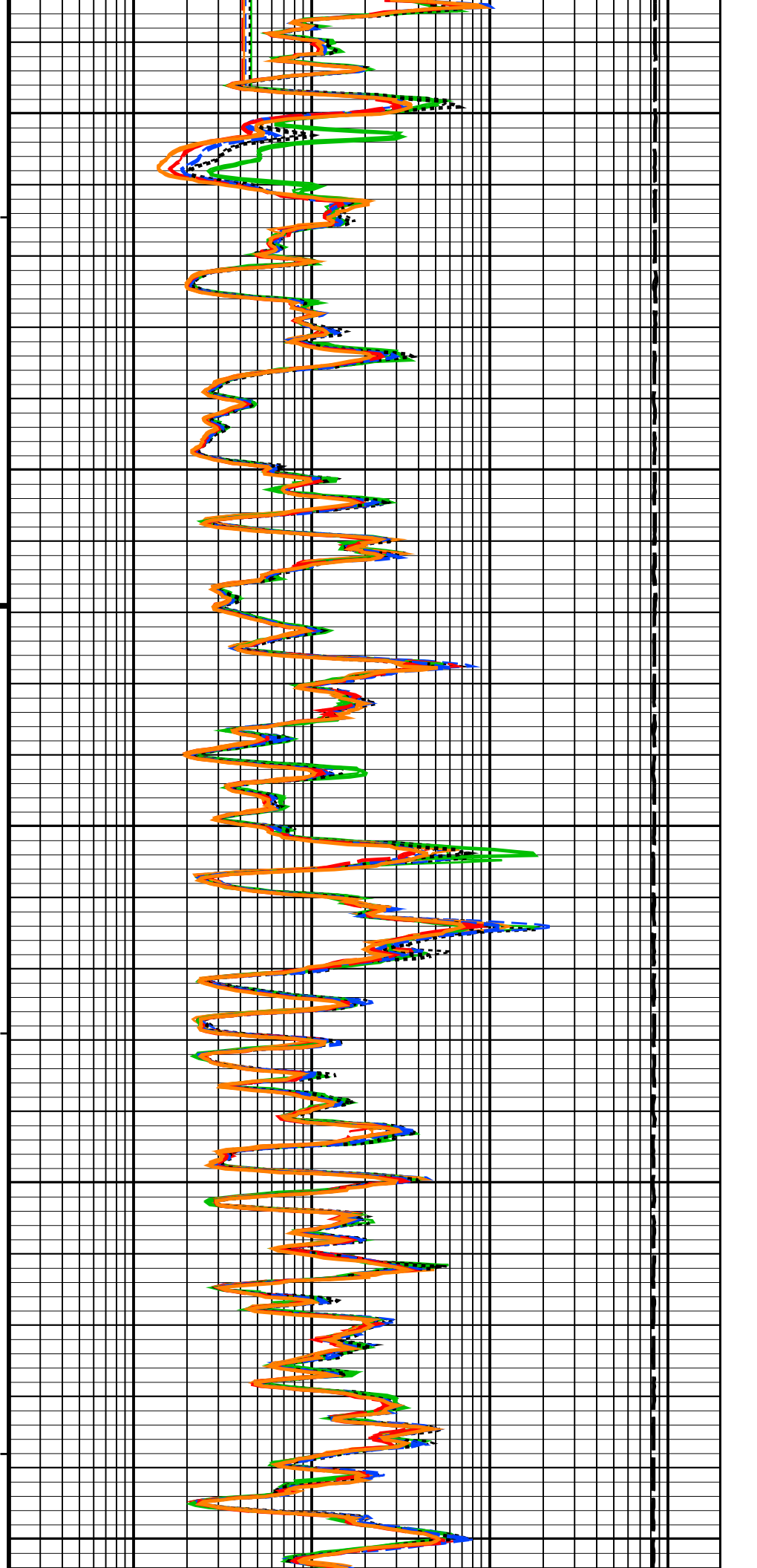
Time Mark Every 60 S

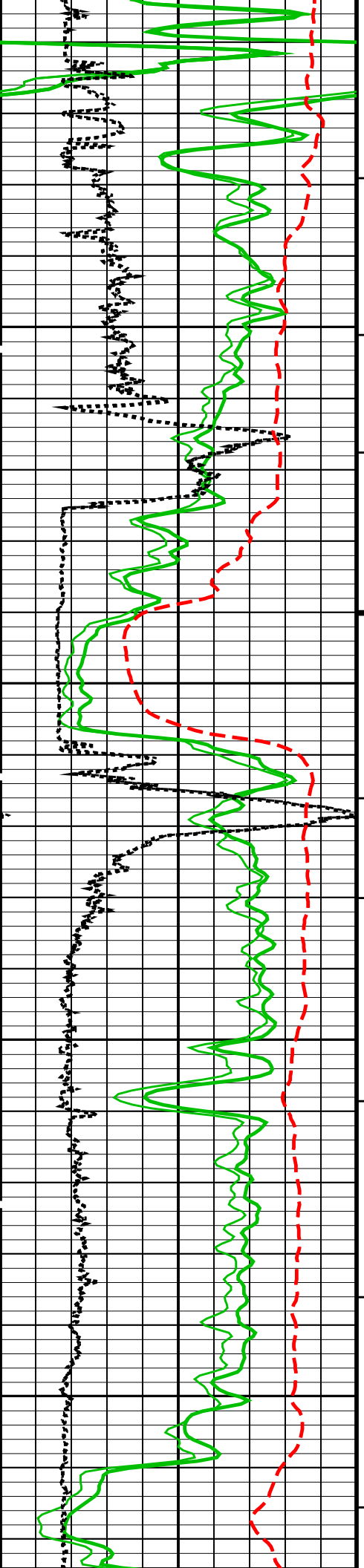




5000

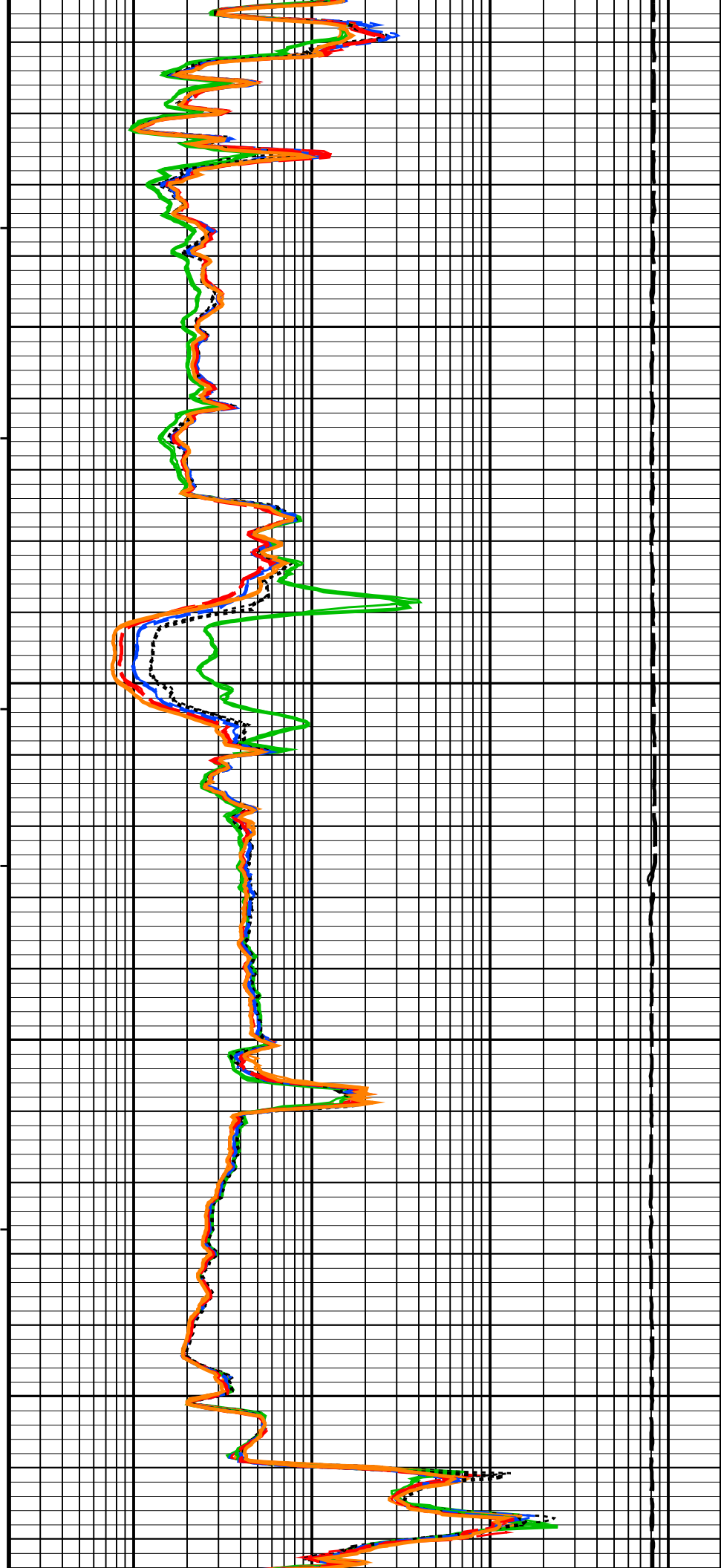
5100

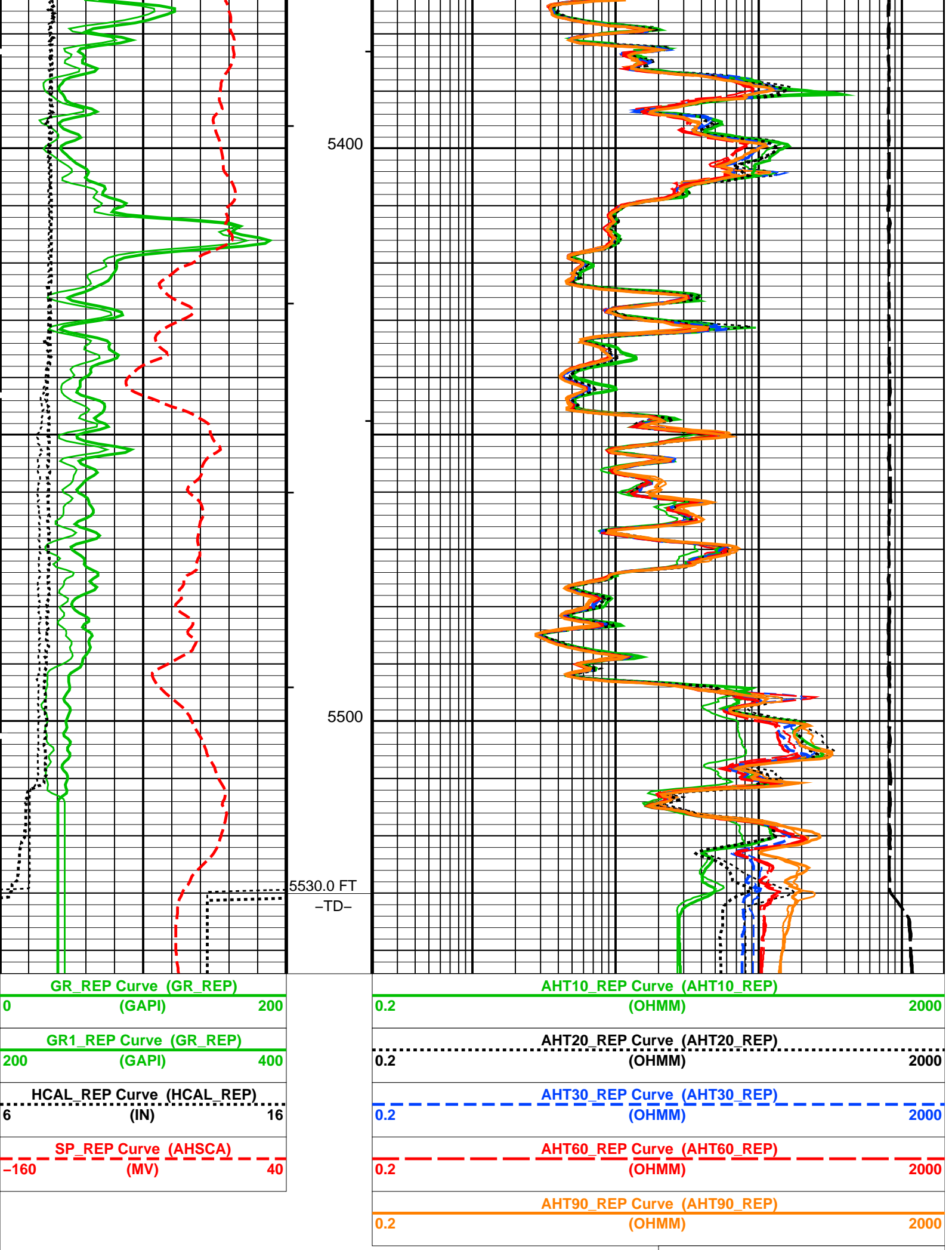




5200

5300





### 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 # 398 (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 7.88 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) 0.766 OHMM Mud Filtrate Sample Temperature (MFST) 80.125 DEGF  
Resitivity Connate Water (RW) 1.000 OHMM

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

Playback Mode: NORMAL

## 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)	180.64	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
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	180.64	DEGF
FCD	Future Casing (Outer) Diameter	5.5	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	
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			
BHT	Bottom Hole Temperature (used in calculations)	180.64	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

SH1	System and Miscellaneous	Surface Hole Temperature	68	DEGF
BS	Bit Size		7.875	IN
DFD	Drilling Fluid Density		9.20	LB/G
DORL	Depth Offset for Repeat Analysis		0.0	FT
FLEV	Fluid Level		-50000.00	FT
MST	Mud Sample Temperature		80.13	DEGF
TD	Total Depth		5530	FT

Format: GRES\_REP    Vertical Scale: 5" per 100'    Graphics File Created: 07-Jan-2011 22:18

## OP System Version: 18C0-147

HILTB-CTS    18C0-147

### Input DLIS Files

DEFAULT    AIT\_TLD\_MCFL\_CNL\_009PUP    FN:8    PRODUCER    07-Jan-2011 22:15    5547.0 FT    4846.0 FT

### Output DLIS Files

DEFAULT    AIT\_TLD\_MCFL\_CNL\_010LUP    FN:9    PRODUCER    07-Jan-2011 22:18

**Schlumberger**

## Caliberations

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: 15-Oct-2010 18:37    Before: 7-Jan-2011 9:20							
Thru Cal Magnitude – 0	0	0.6273	0.6271	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.286	1.285	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6373	0.6369	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.7236	0.7235	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.349	1.349	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.948	1.948	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.944	1.944	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.380	1.383	N/A	N/A	N/A	V
Phase – 0	0	74.27	74.90	N/A	N/A	N/A	DEG
Phase – 1	0	73.26	73.89	N/A	N/A	N/A	DEG
Phase – 2	0	69.06	69.72	N/A	N/A	N/A	DEG
Phase – 3	0	68.16	68.82	N/A	N/A	N/A	DEG
Phase – 4	0	61.18	61.87	N/A	N/A	N/A	DEG
Phase – 5	0	59.00	59.73	N/A	N/A	N/A	DEG
Phase – 6	0	59.07	59.79	N/A	N/A	N/A	DEG
Phase – 7	0	53.37	54.34	N/A	N/A	N/A	DEG
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Electronics Calibration Check – Auxilliary							
Master: 15-Oct-2010 18:37    Before: 7-Jan-2011 9:20							
Array Induction SPA Plus	990.5	992.7	993.6	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	-0.03691	-0.08047	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9150	0.9196	0.9204	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	-0.00004114	-0.00007260	N/A	N/A	N/A	V

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

Master: 15-Oct-2010 18:37

Test Loop Gain Magnitude – 0	0	1.022	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 1	0	1.035	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 2	0	1.021	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 3	0	1.020	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 4	0	1.000	N/A	N/A	N/A	N/A	V

Test Loop Gain Magnitude – 5	0	0.9901	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 6	0	0.9987	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 7	0	1.016	N/A	N/A	N/A	N/A	V
Phase – 0	0	0.4239	N/A	N/A	N/A	N/A	DEG
Phase – 1	0	0.5409	N/A	N/A	N/A	N/A	DEG
Phase – 2	0	-0.06263	N/A	N/A	N/A	N/A	DEG
Phase – 3	0	0.03454	N/A	N/A	N/A	N/A	DEG
Phase – 4	0	-0.1758	N/A	N/A	N/A	N/A	DEG
Phase – 5	0	-0.1320	N/A	N/A	N/A	N/A	DEG
Phase – 6	0	0.1953	N/A	N/A	N/A	N/A	DEG
Phase – 7	0	-0.2054	N/A	N/A	N/A	N/A	DEG

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

Master: 15–Oct–2010 18:37

R Sonde Error Correction – 0	0	-84.06	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	173.5	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	115.0	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	60.64	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	24.06	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	15.52	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	12.66	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	-3.102	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	52.00	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	170.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	39.80	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	45.14	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	-10.30	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	3.750	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	7.097	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	3.539	N/A	N/A	N/A	N/A	MM/M

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

Master: 15–Oct–2010 18:37

Coarse – Mag, Real, Imag – 0	0	0.9207	N/A	N/A	N/A	N/A	
Coarse – Mag, Real, Imag – 1	0	0.9208	N/A	N/A	N/A	N/A	
Coarse – Mag, Real, Imag – 2	0	0.9208	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 0	0	0.9207	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 1	0	0.9207	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 2	0	0.9207	N/A	N/A	N/A	N/A	

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

Before: 7–Jan–2011 9:35

BS Window Ratio	0.7136	N/A	0.7128	N/A	N/A	N/A	
BS Window Sum	8411	N/A	8415	N/A	N/A	N/A	CPS
SS Window Ratio	0.4935	N/A	0.4907	N/A	N/A	N/A	
SS Window Sum	9506	N/A	9508	N/A	N/A	N/A	CPS
LS Window Ratio	0.2934	N/A	0.2928	N/A	N/A	N/A	
LS Window Sum	998.6	N/A	994.9	N/A	N/A	N/A	CPS

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

Before: 7–Jan–2011 9:35

BS PM High Voltage (Command)	1511	N/A	1510	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1731	N/A	1725	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1489	N/A	1491	N/A	N/A	N/A	V

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

Before: 7–Jan–2011 9:35

BS Crystal Resolution	10.34	N/A	10.41	N/A	N/A	N/A	%
SS Crystal Resolution	10.04	N/A	9.975	N/A	N/A	N/A	%
LS Crystal Resolution	10.26	N/A	10.13	N/A	N/A	N/A	%

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – MCFL Calibration

Before: 7–Jan–2011 9:36

Raw B0 Resistivity	3875	N/A	3854	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3794	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3793	N/A	N/A	N/A	OHMM

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – HILT Caliper Calibration

Before: 7–Jan–2011 9:19

HILT Caliper Zero Measurement	8.000	N/A	8.080	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.23	N/A	N/A	N/A	IN

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Detector Calibration

Before: 7–Jan–2011 9:19

Gamma Ray Background	30.00	N/A	78.81	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkgd)	165.0	N/A	177.7	N/A	N/A	15.00	GAPI

#### High resolution Integrated Logging Tool–CTS Wellsite Calibration – Zero Measurement

Master: 27–Dec–2010 15:55 Before: 7–Jan–2011 9:20

CNTC Background	26.75	26.75	27.83	N/A	N/A	4.013	CPS
CFTC Background	26.84	26.84	26.39	N/A	N/A	4.026	CPS

High resolution Integrated Logging Tool–CTS Wellsite Calibration – Ratio Measurement							
Master: 27–Dec–2010 15:55							
Thermal Near Corr. (Tank)	5800	5587	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2310	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.419	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool–CTS Wellsite Calibration – Accelerometer Calibration							
Before: 7–Jan–2011 21:31							
Z–Axis Acceleration	32.19	N/A	31.81	N/A	N/A	N/A	F/S2
High resolution Integrated Logging Tool–CTS Master Calibration – Inversion results							
Master: 3–Jan–2011 12:29							
Rho Aluminum	2.596	2.601	--	--	--	--	G/C3
Rho Magnesium	1.686	1.688	--	--	--	--	G/C3
Pe Aluminum	2.570	2.549	--	--	--	--	
Pe Magnesium	2.650	2.625	--	--	--	--	
High resolution Integrated Logging Tool–CTS Master Calibration – Deviation Summary							
Master: 3–Jan–2011 12:29							
BS Average Deviation	0	0.4353	--	--	--	--	%
BS Max Deviation	0	0.8132	--	--	--	--	%
SS Average Deviation	0	0.3792	--	--	--	--	%
SS Max Deviation	0	1.774	--	--	--	--	%
LS Average Deviation	0	0.6869	--	--	--	--	%
LS Max Deviation	0	1.567	--	--	--	--	%

The GLS–VJ source activity is acceptable.

The HGNS Neutron Master Calibration was done with the following parameters :

NCT–B Water Temperature    48.7    DEGF.  
Thermal Housing Size        3.362 IN.  
NSR–F serial number        5068

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	398	
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	5416	
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	0.6273		0.6050	74.27		71.00
	Before	0.6271			74.90		
1	Master	1.286		1.270	73.26		70.00
	Before	1.285			73.89		
2	Master	0.6373		0.6230	69.06		66.00
	Before	0.6369			69.72		
3	Master	0.7236		0.7040	68.16		65.00
	Before	0.7235			68.82		
4	Master	1.349		1.337	61.18		59.00
	Before	1.349			61.87		
	Master	1.948			59.00		







6	Before	1.948		1.955	59.73		57.00
	Master	1.944		1.955	59.07		57.00
	Before	1.944			59.79		
7	Master	1.380		1.415	53.37		53.00
	Before	1.383			54.34		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 15-Oct-2010 18:37				Before: 7-Jan-2011 9:20			

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			992.7	Master			-0.03691
Before			993.6	Before			-0.08047
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			0.9196	Master			-4.114E-00
Before			0.9204	Before			-7.260E-00
0.8700 (Minimum)			0.9150 (Nominal)	0.9600 (Maximum)	-0.05000 (Minimum)      0 (Nominal)      0.05000 (Maximum)		
Master: 15-Oct-2010 18:37				Before: 7-Jan-2011 9:20			

High resolution Integrated Logging Tool-CTS Wellsite Calibration						
Test Loop Gain Correction						
Idx	Value	Test Loop Gain Magnitude V			Value	Phase DEG
0	1.022				0.4239	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.035				0.5409	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
2	1.021				-0.06263	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
3	1.020				0.03454	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
4	1.000				-0.1758	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
5	0.9901				-0.1320	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
6	0.9987				0.1953	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
7	1.016				-0.2054	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
Master: 15-Oct-2010 18:37						

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	-84.06			52.00	
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)	
1	173.5			170.3	
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)	
2	115.0			39.80	

	66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)	-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	60.64			45.14		
	39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)	-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	24.06			-10.30		
	15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)	-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	15.52			3.750		
	4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)	-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	12.66			7.097		
	5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)	-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-3.102			3.539		
	-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)	-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
Master: 15-Oct-2010 18:37						

High resolution Integrated Logging Tool–CTS Wellsite Calibration								
Mud Gain Correction								
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag		
0	0.9207				0.9207			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	0.9208				0.9207			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	0.9208				0.9207			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 15–Oct–2010 18:37								

High resolution Integrated Logging Tool-CTS Wellsite Calibration									
Stab Measurement Summary									
Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value
Before				0.7128	Before				0.4907
	0.6779 (Minimum)	0.7136 (Nominal)	0.7492 (Maximum)			0.4689 (Minimum)	0.4935 (Nominal)	0.5182 (Maximum)	
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value
Before				8415	Before				9508
	7991 (Minimum)	8411 (Nominal)	8832 (Maximum)			9030 (Minimum)	9506 (Nominal)	9981 (Maximum)	
Phase	LS Window Ratio			Value	Phase	LS Window Sum CPS			Value
Before				0.2928	Before				994.9
	0.2787 (Minimum)	0.2934 (Nominal)	0.3081 (Maximum)			948.7 (Minimum)	998.6 (Nominal)	1049 (Maximum)	
Before: 7-Jan-2011 9:35									

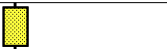
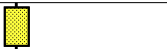
High resolution Integrated Logging Tool-CTS Wellsite Calibration									
Photo-multiplier High Voltages Calibrations									
Phase	BS PM High Voltage (Command) V			Value	Phase	SS PM High Voltage (Command) V			Value
Before				1510	Before				1725
	1411 (Minimum)	1511 (Nominal)	1611 (Maximum)			1631 (Minimum)	1731 (Nominal)	1831 (Maximum)	
Phase	LS PM High Voltage (Command) V			Value	Phase	LS PM High Voltage (Command) V			Value
Before				1491	Before				1491
	1389 (Minimum)	1489 (Nominal)	1589 (Maximum)			1389 (Minimum)	1489 (Nominal)	1589 (Maximum)	
Before: 7-Jan-2011 9:35									

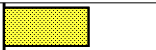

High resolution Integrated Logging Tool-CTS Wellsite Calibration									
Crystal Quality Resolutions Calibration									
Phase	BS Crystal Resolution %			Value	Phase	SS Crystal Resolution %			Value
Before				10.41	Before				9.975
	9.344 (Minimum)	10.34 (Nominal)	11.34 (Maximum)			9.038 (Minimum)	10.04 (Nominal)	11.04 (Maximum)	
Phase	LS Crystal Resolution %			Value	Phase	LS Crystal Resolution %			Value
Before				10.13	Before				10.13
	9.264 (Minimum)	10.26 (Nominal)	11.26 (Maximum)			9.264 (Minimum)	10.26 (Nominal)	11.26 (Maximum)	
Before: 7-Jan-2011 9:35									





High resolution Integrated Logging Tool-CTS Wellsite Calibration									
MCFL Calibration									
Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value
Before				3854	Before				3794
	3854 (Minimum)	3854 (Nominal)	3854 (Maximum)			3794 (Minimum)	3794 (Nominal)	3794 (Maximum)	
Phase	Raw B2 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				3793	Before				3793
	3793 (Minimum)	3793 (Nominal)	3793 (Maximum)			3793 (Minimum)	3793 (Nominal)	3793 (Maximum)	



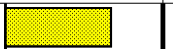
3565 (Minimum)	3875 (Nominal)	4185 (Maximum)	3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	3524 (Minimum)	3830 (Nominal)	4136 (Maximum)
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Before: 7-Jan-2011 9:36


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			8.080	Before			12.23
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 7-Jan-2011 9:19							

















High resolution Integrated Logging Tool–CTS Wellsite Calibration							
Detector Calibration							
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig – Bkgd) GAPI		Value
Before			78.81	Before			177.7
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		157.1 (Minimum)	165.0 (Nominal)	206.3 (Maximum)
Before: 7-Jan-2011 9:19							

High resolution Integrated Logging Tool–CTS Wellsite Calibration								
Zero Measurement								
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value	
Master			26.75	Master			26.84	
Before			27.83	Before			26.39	
5.000 (Minimum)			26.75 (Nominal)	5.000 (Minimum)			26.84 (Nominal)	40.00 (Maximum)
Master: 27-Dec-2010 15:55				Before: 7-Jan-2011 9:20				

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		5587	Master		2310	Master		2.419	
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)	1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

Master: 27-Dec-2010 15:55





High resolution Integrated Logging Tool-CTS		
Wellsite Calibration		
Accelerometer Calibration		
Phase	Z-Axis Acceleration F/S2	Value
Before		31.81
	31.53 (Minimum)	32.19 (Nominal)
		32.84 (Maximum)
Before: 7-Jan-2011 21:31		

















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	0.6273		0.6050	74.27		71.00
1	Master	1.286		1.270	73.26		70.00
2	Master	0.6373		0.6230	69.06		66.00
3	Master	0.7236		0.7040	68.16		65.00
4	Master	1.349		1.337	61.18		59.00
5	Master	1.948		1.955	59.00		57.00
6	Master	1.944		1.955	59.07		57.00
7	Master	1.380		1.415	53.37		53.00
		60.00 % (Minimum)	140.0 % (Nominal)	140.0 % (Maximum)	Nom –60.00 (Minimum)	Nom + 60.00 (Nominal)	60.00 (Maximum)

















Master: 15-Oct-2010 18:37

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

Phase	Array Induction SPA Plus MV			Value	Phase	Array Induction SPA Zero MV			Value
Master				992.7	Master				-0.03691
	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				0.9196	Master				-4.114E-00
	0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)	
Master: 15-Oct-2010 18:37									

High resolution Integrated Logging Tool-CTS Master Calibration						
Test Loop Gain Correction						
Idx	Value	Test Loop Gain Magnitude V			Value	Phase DEG
0	1.022				0.4239	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)      0 (Nominal)      3.000 (Maximum)
1	1.035				0.5409	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)      0 (Nominal)      3.000 (Maximum)
2	1.021				-0.06263	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)      0 (Nominal)      3.000 (Maximum)
3	1.020				0.03454	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)      0 (Nominal)      3.000 (Maximum)
4	1.000				-0.1758	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)      0 (Nominal)      3.000 (Maximum)
5	0.9901				-0.1320	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)      0 (Nominal)      3.000 (Maximum)
6	0.9987				0.1953	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)      0 (Nominal)      3.000 (Maximum)
7	1.016				-0.2054	
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)      0 (Nominal)      3.000 (Maximum)
Master: 15-Oct-2010 18:37						

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	-84.06				52.00			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	173.5				170.3			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	115.0				39.80			
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	60.64				45.14			
		39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	24.06				-10.30			
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	15.52				3.750			
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	12.66				7.097			
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-3.102				3.539			
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

Master: 15-Oct-2010 18:37

Master: 15-Oct-2010 18:37

Master: 3-Jan-2011 12:29

Master: 3-Jan-2011 12:29

Master: 27-Dec-2010 15:55

Master: 27-Dec-2010 15:55

Company:	Vecta Oil & Gas LTD	Schlumberger
Well:	Torreys 44–33	
Field:	Wildcat	
County:	Cheyenne	
State:	Colorado	

Platform Express  
Array Induction  
with Linear Correlation