

Company: CONOCOPHILLIPS CANADA RESOURCES CORP.

Well: COPRC DODO CANYON E76

Field: DODO CANYON

Province: NORTHWEST TERRITORIES

PLATFORM EXPRESS ***MD***

ARRAY INDUCTION LOG

Province: NORTHWEST TERRITORIES
Field: DODO CANYON
Location: UNIT E SECTION 76
Well: COPRC DODO CANYON E76
Company: CONOCOPHILLIPS CANADA RESOURCES CO

Location:		Elev.:		K.B.	
UNIT E SECTION 76		300E766510126450		273.40 m	
NORTHING: 7219874.66		EASTING: 594010.01		G.L. 268.20 m	
Permanent Datum:		Ground Level		Elev.: 268.20	
Log Measured From:		Kelly Bushing		5.20 m	
Drilling Measured From:		Kelly Bushing		above Perm.Datum	
API Serial No.		Longitude:		Latitude:	
EL470		126° 59' 58" W		65° 5' 27" N	

Logging Date	14-Jan-2014		
Run Number	1.1		
Depth Driller	1908.00 m		
Schlumberger Depth	1819.10 m		
Bottom Log Interval	1816.69 m		
Top Log Interval	603.00 m		
Casing Driller Size @ Depth	244.5 mm @ 603.00 m		
Casing Schlumberger	603 m		
Bit Size	222 mm		
Type Fluid In Hole	INVERT		
Density	1025 kg/m3	75 s	
Fluid Loss	PH		
Source of Sample	N/A		
RM @ Meas Temp	N/A		
RMF @ Meas Temp	N/A		
RMC @ Meas Temp	N/A		
Source RMF	RMC	N/A	
RM @ BHT	RMF @ BHT	N/A	
Max Recorded Temperatures	71.5 degC		
Circulation Stopped	14-Jan-2014	07:20:00	
Logger on Bottom	14-Jan-2014	18:25:00	
Unit Number	3139	JEFFREY TATLOCK	GRANDE PRAIRIE
Recorded By	DAVID LAWRENCE		
Witnessed By			

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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10. 1.1


10.1 Integration Summary

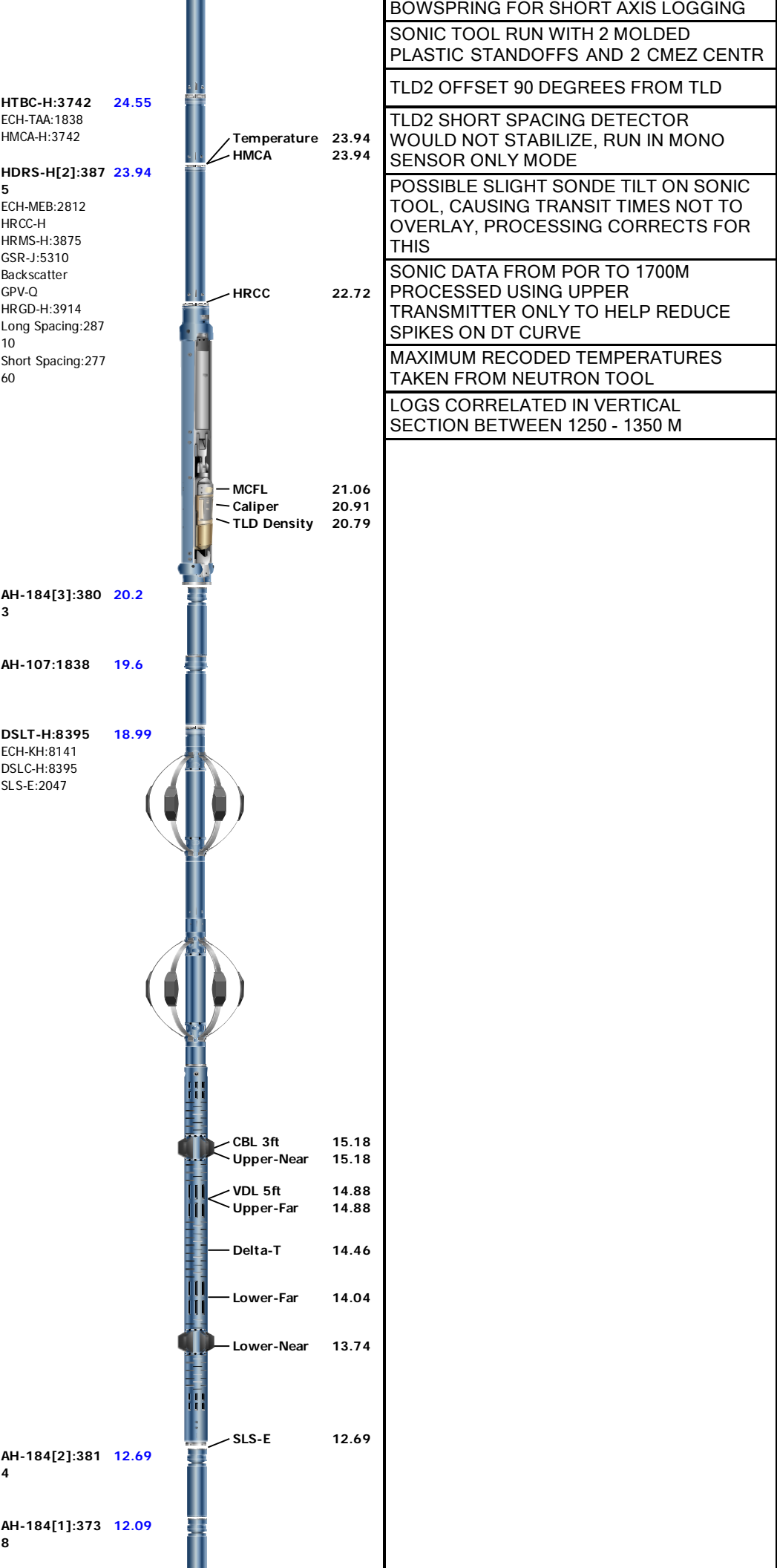
10.2 Software Version

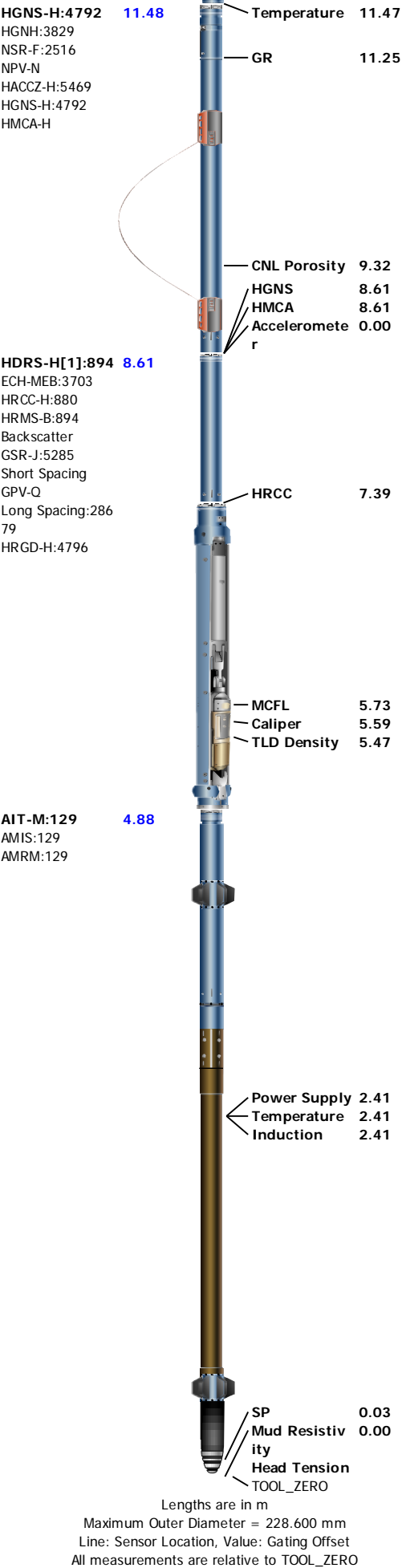
Borehole Fluids

Parameter(unit)	1.1					
Fluid Type	Oil					
Fluid Name	INVERT					
Max Recorded Temperatures (degC)	71.5					
Source of Sample	N/A					
Salinity (ppm)	0					
Density (kg/m3)	1025					
Funnel Viscosity (s)	75					
Fluid Loss (cm3)						
PH						
Date/Time Circulation Stopped	14-Jan-2014 07:20:00					
Date Logger on Bottom	14-Jan-2014					
Time Logger on Bottom	18:25:00					
Source RMF	N/A					
RMC	N/A					
RM @ Meas Temp (ohm.m@degC)	N/A					
RMF @ Meas Temp (ohm.m@degC)	N/A					
RMC @ Meas Temp (ohm.m@degC)	N/A					
RM @ BHT (ohm.m@degC)	N/A					
RMF @ BHT (ohm.m@degC)	N/A					
RMC @ BHT (ohm.m@degC)	N/A					
Electricity Stability (V)						
Oil/Water						
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary

1.1: Toolstring				1.1: Remarks		
<div>Equip name LEH-QT:2850 LEH-QT:2850</div> <div>DTC-H:9100 ECH-KC:10172 DTC-H:9100</div> <div>SGT-N:10447 SGH-K:3210 SGC-TB:10447 SGD-TAA</div>	<div>Length 28.03</div> <div>27.14</div> <div>26.22</div>		MP name Offset	ALL INTERVALS AND PRESENTATIONS AS PER CLIENT REQUEST		
				RIG: BEAVER 2		
				SLB CREW: JASON LEGASSIE		
				LOGGER REQUESTED AT: 10:30 14-JAN-2014		
				LOGGER ARRIVED AT: 09:30 14-JAN-2014		
				RIG READY AT: 15:45 14-JAN-2014		
				INDUCTION TOOL RUN WITH 38.1 MM STANDOFFS IN COMPUTE MUD RESISTIVITY MODE		
				NEUTRON TOOL RUN WITH DUAL AXIS		





Depth Summary

1.1

Depth Measuring Device

Depth Measuring Device

Type	IDW-JA		
Serial Number	6162		
Calibration Date	10-MAY-2010		
Calibrator Serial Number	4		
Calibration Cable Type	7-39 PLXS		
Wheel Correction 1	-3		
Wheel Correction 2	1		

Tension Device

Type	CMTD-B/A		
Serial Number	1293		
Calibration Date	06-SEP-2013		
Calibrator Serial Number	1111		
Number of Calibration Points	10		
Calibration Root Mean Square Error	28		
Calibration Peak Error	54		

Logging Cable

Type	7-39P-LXS		
Serial Number			
Length	3100.00 m		
Conveyance Type	Wireline		
Rig Type			

1.1:Depth Control Parameters

Log Sequence	First Log In the Well	ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED
Rig Up Length At Surface	56.06 m	IDW USED AS PRIMARY DEPTH CONTROL
Rig Up Length At Bottom	56.02 m	Z-CHART USED AS SECONDARY DEPTH CONTROL
Rig Up Length Correction	0.04 m	ALL LOGS CORRELATED TO DOWN LOG IN VERTICAL SECTION BETWEEN 1250 - 1350 M
Stretch Correction	1.27 m	
Tool Zero Check At Surface	0.30 m	

1.1

Software Version

Acquisition System	Version
MaxWell	4.0.9163.3000
Application Patch	Patch-SP-10767_13075-4.0.9163.3001

Computation	Description		Version
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels		4.0.9213.3000
DepthCorrection	DepthCorrection		4.0.9213.3000
Tool Elements	Description	Software Version	Firmware Version
HRCC-H	HILT High-Resolution Control Cartridge, 150 degC	4.0.9231.3000	2.0
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC	4.0.9231.3000	2.0
AMIS	Array Induction Sonde - M	4.0.9247.3000	1

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1.1	Log[5]:Up	Up	543.85 m	1822.88 m	14-Jan-2014 6:48:20 PM	14-Jan-2014 8:17:20 PM	ON	-1.90 m	Yes

All depths are referenced to toolstring zero

Log	Company:CONOCOPHILLIPS CANADA RESOURCES CORP.	Well:COPRC DODO CANYON E76
		1.1: Log[5]:Up:S023

Description: MCFL processing LQC for Platform Express Format: Log (AIT-COND-600) Index Scale: 1:600 Index Unit: m Index Type: Measured Depth

Creation Date: 18- Jan-2014 22:05:48

Channel	Source	Sampling
AF20	AIT-M:AMIS:AMIS	3in
AF90	AIT-M:AMIS:AMIS	3in
AFCO90	AIT-M:AMIS:AMIS	3in
BS	Borehole	6in
CALI.1	HDRS-H[1]:HRCC-H:HRCC-H	1in
CALI.2	HDRS-H[2]:HRCC-H:HRCC-H	1in
GR_CAL	HGNS-H:HGNS-H:HGNS-H	6in
STIT	DepthCorrection	6in
TENS	WLWorkflow	1in
TIME_1900	WLWorkflow	0.1in

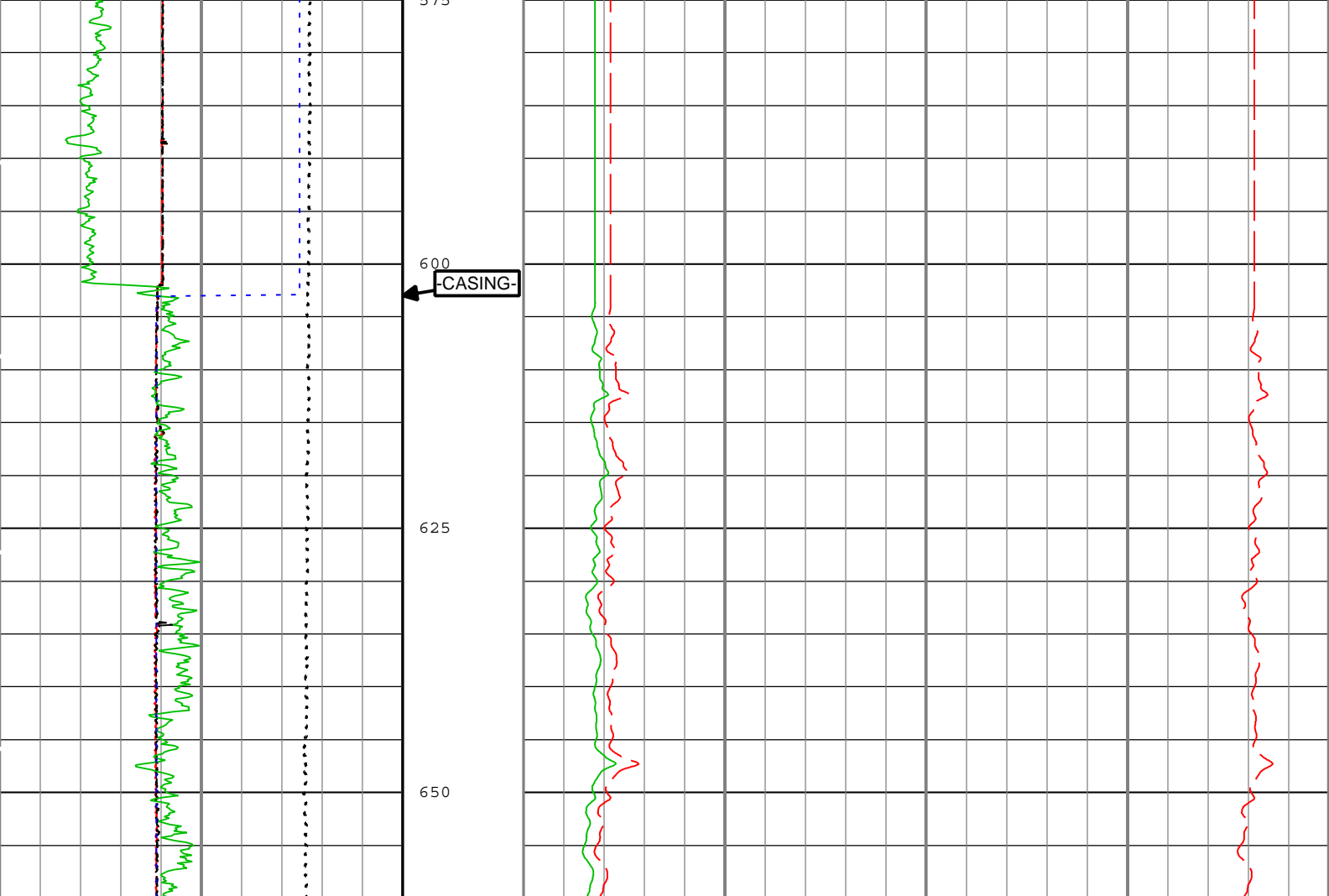
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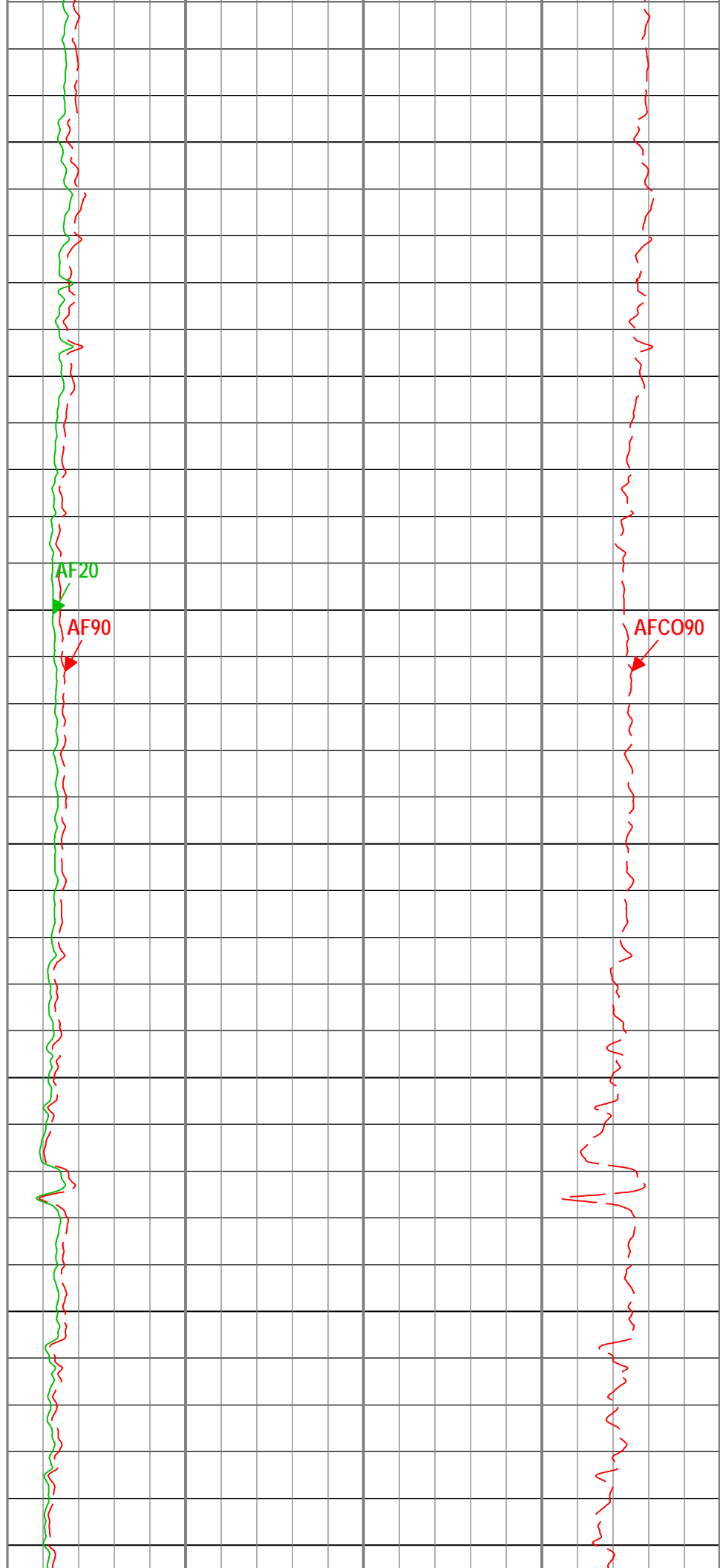
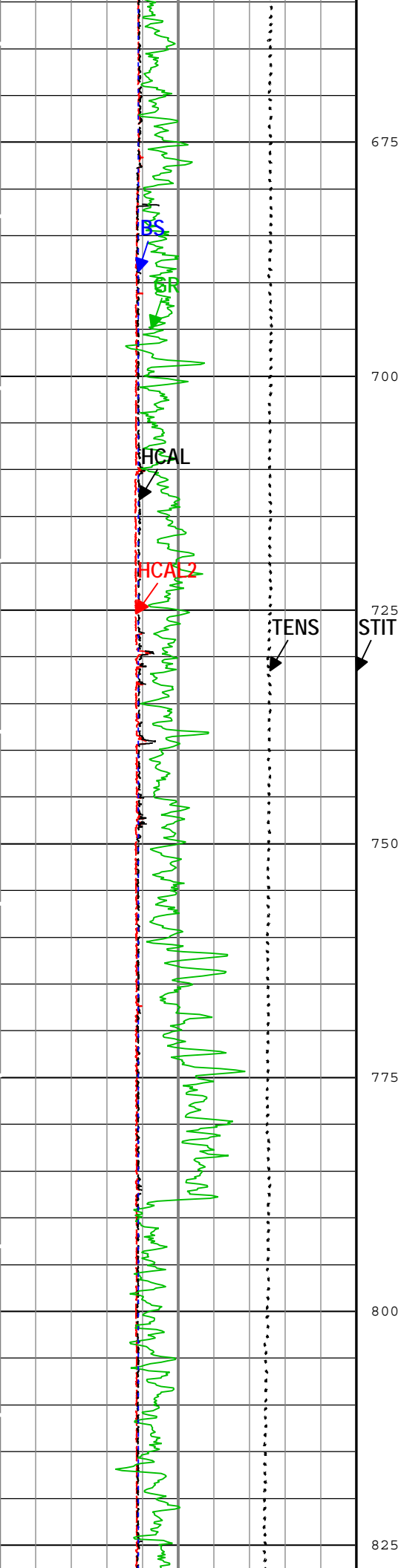
Cable Tension (TENS)		
25000	N	0
HCAL2		
125	mm	375
HCAL		
125	mm	375
GR		
0	gAPI	300
Bit Size (BS)		
125	mm	375

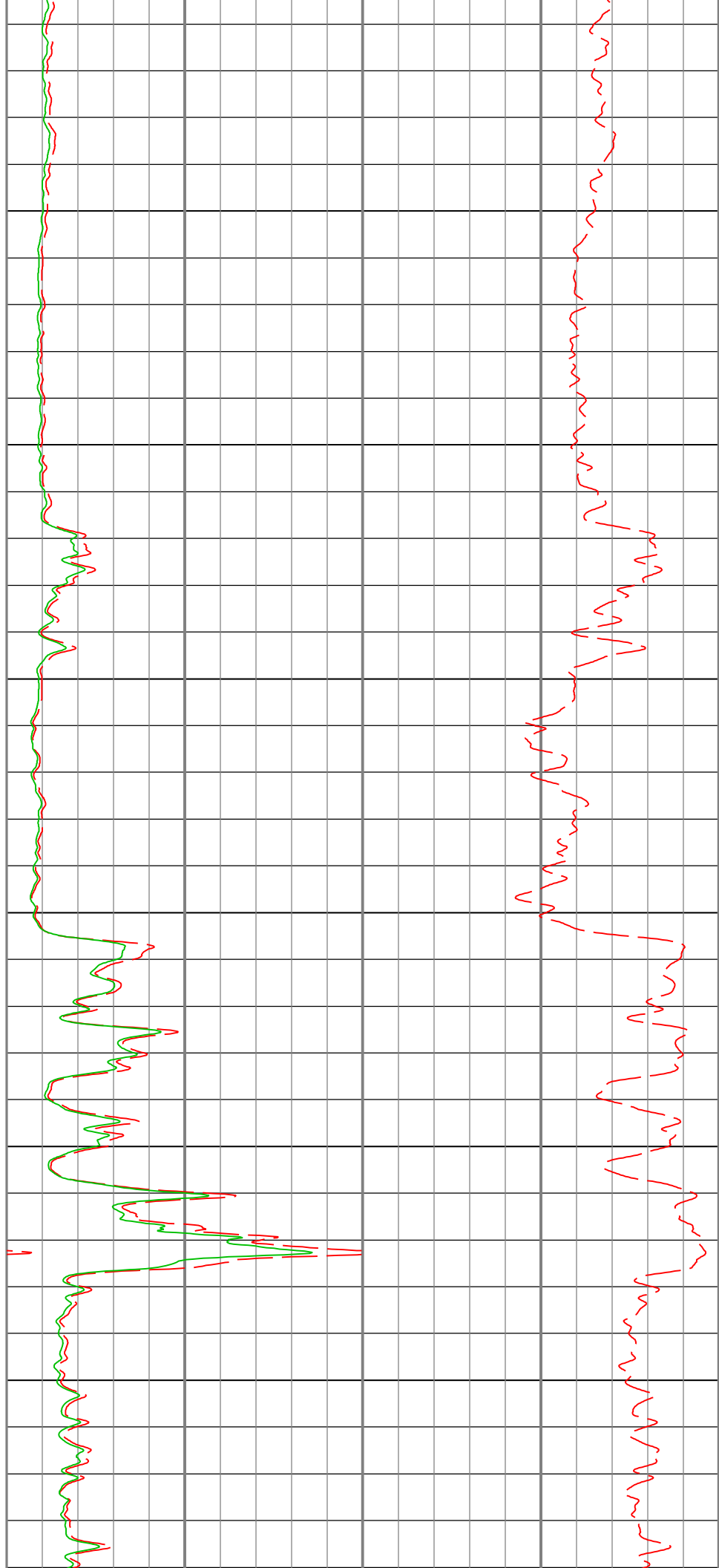
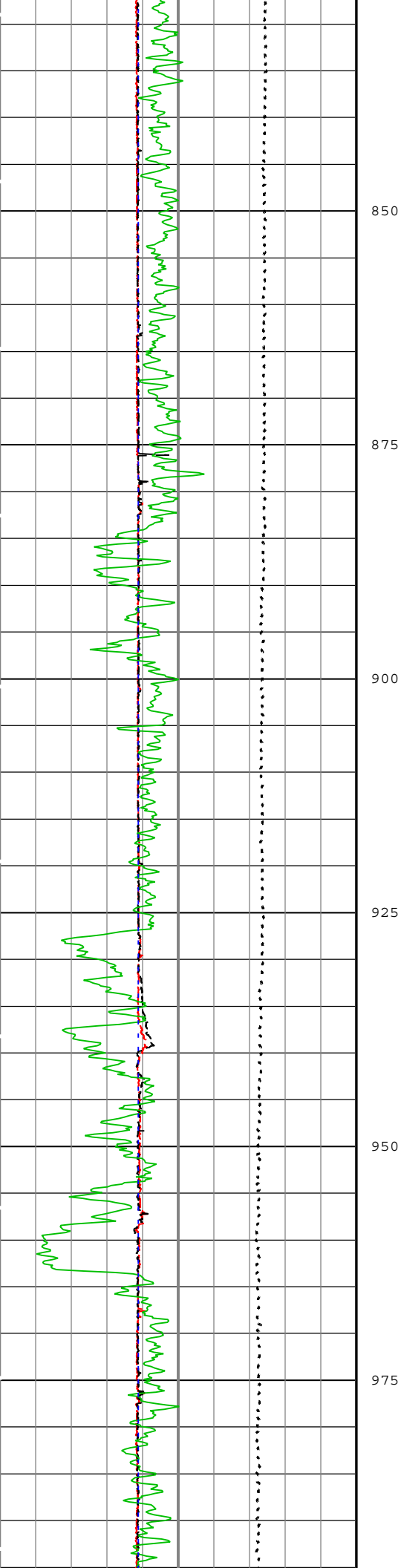
Array Induction Four Foot Resistivity A90 (AF90) AIT-M		
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Array Induction Four Foot Resistivity A20 (AF20) AIT-M		
0	ohm.m	50

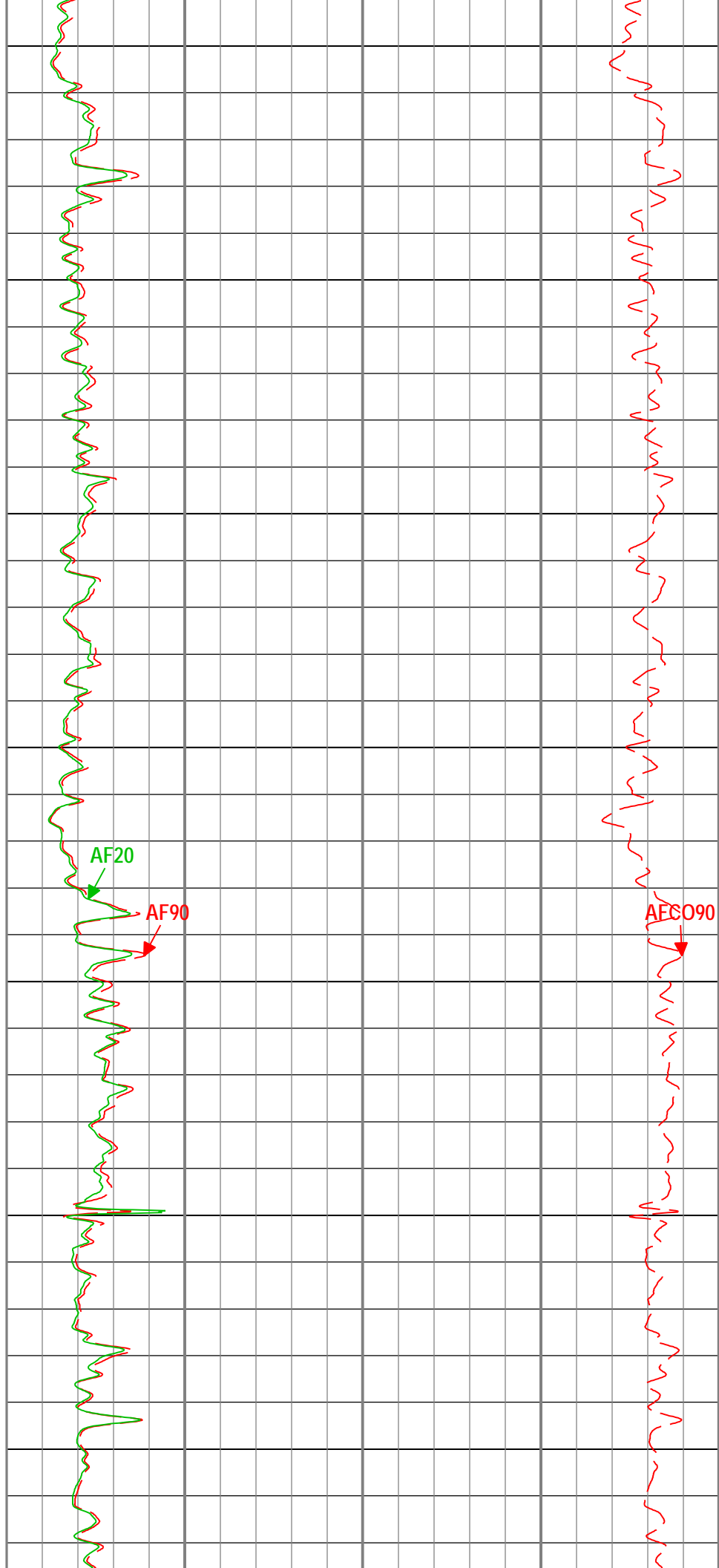
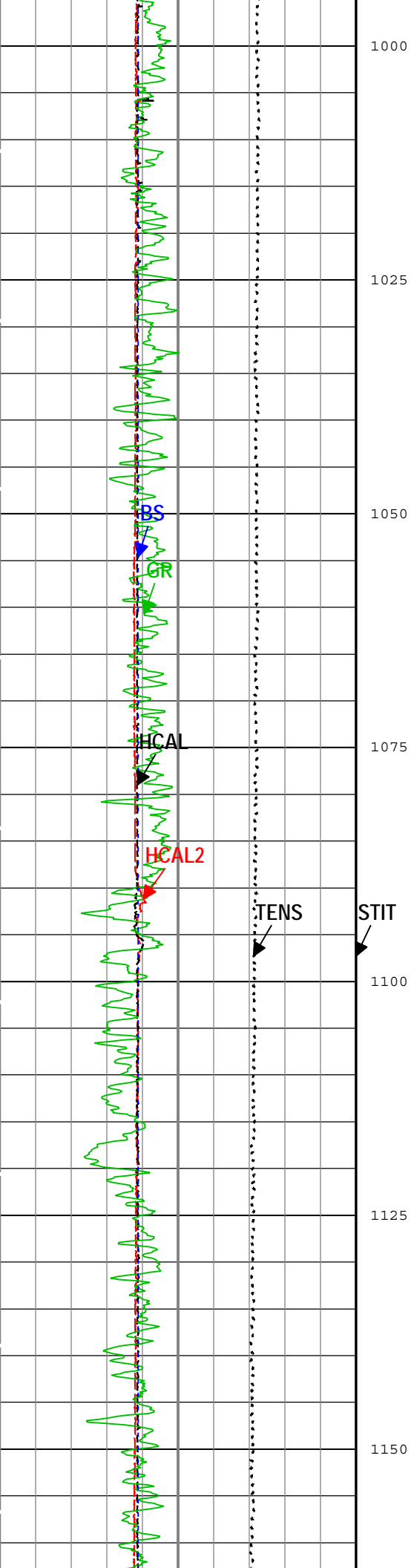
Array Induction Four Foot Conductivity A90 (AFCO90) AIT-M		
1000	mS/m	0

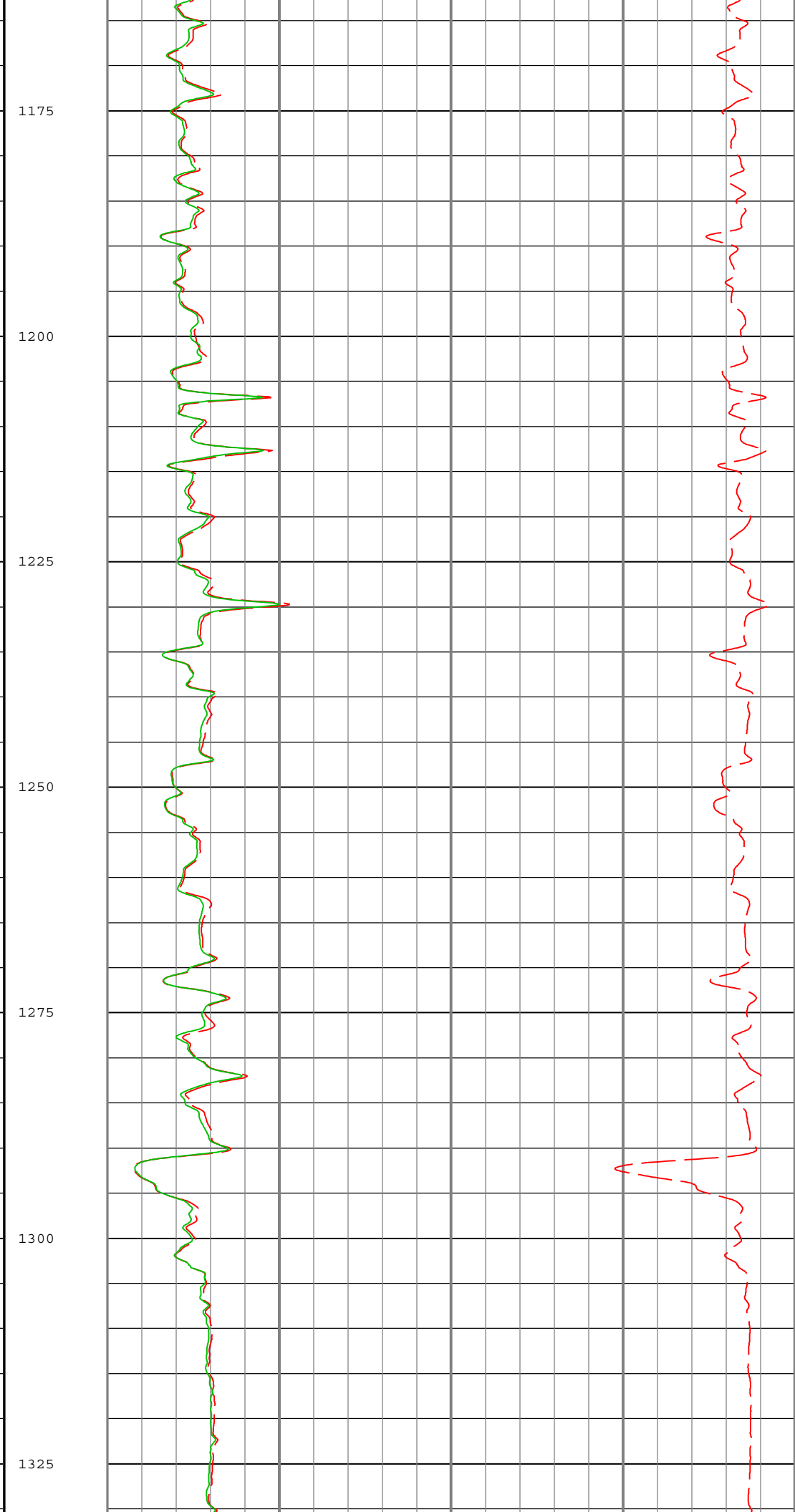
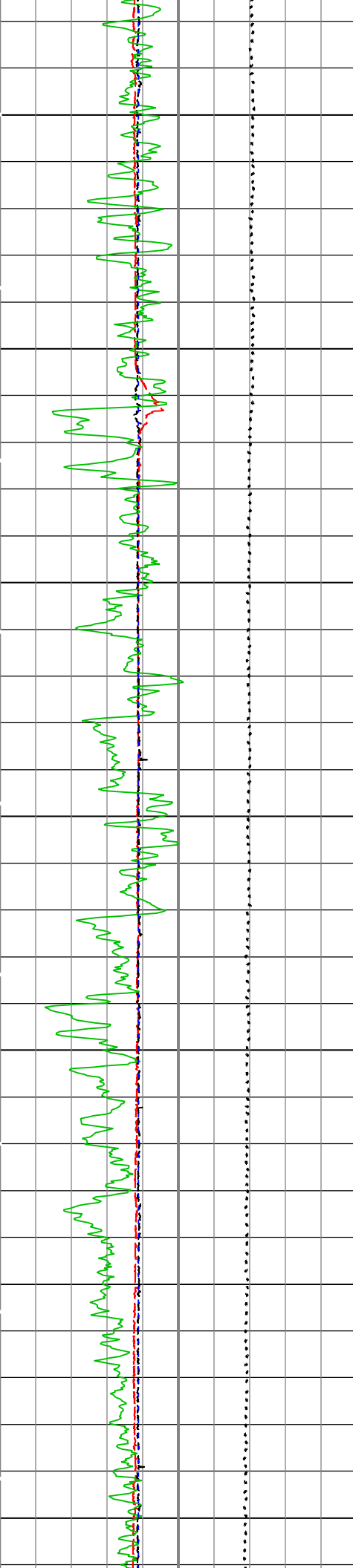
MAIN PASS: ARRAY INDUCTION LOG

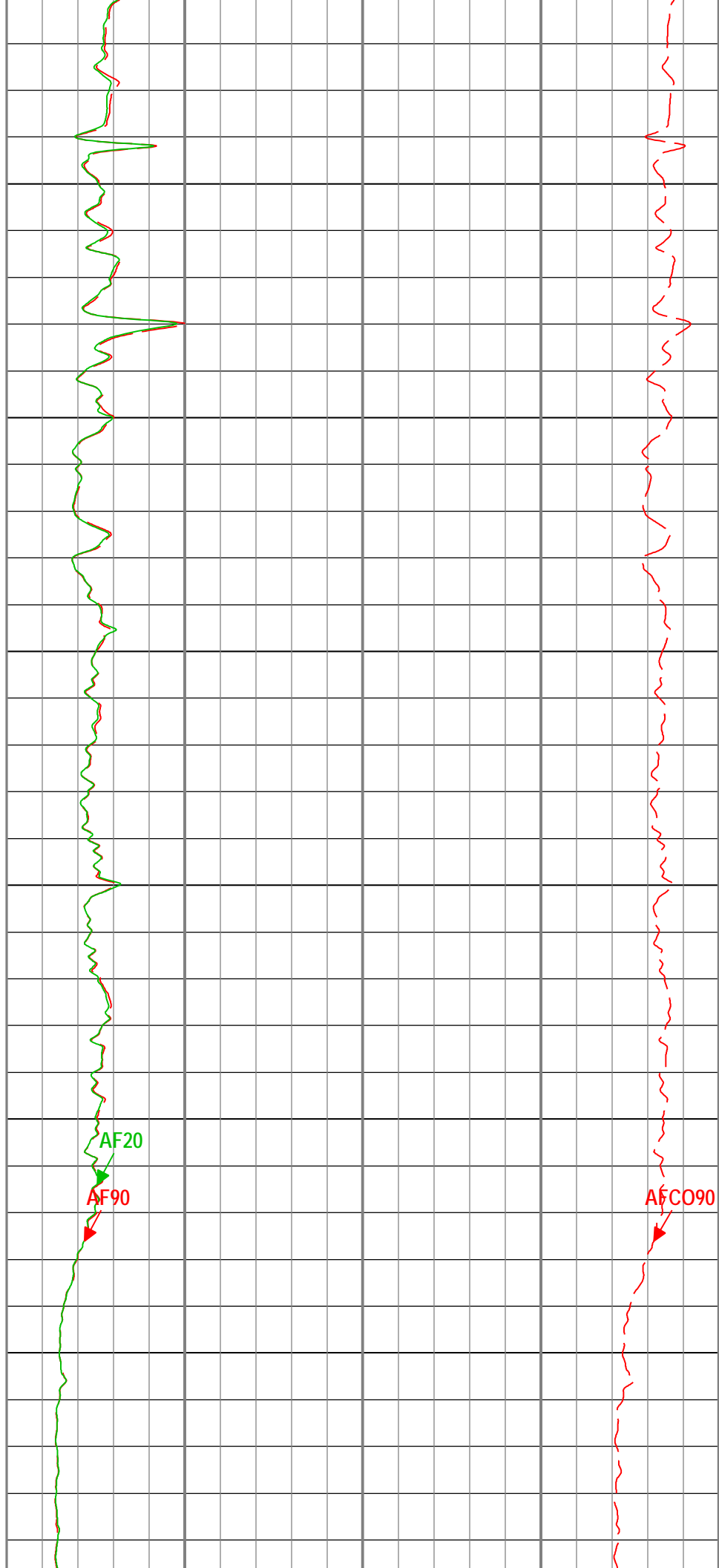
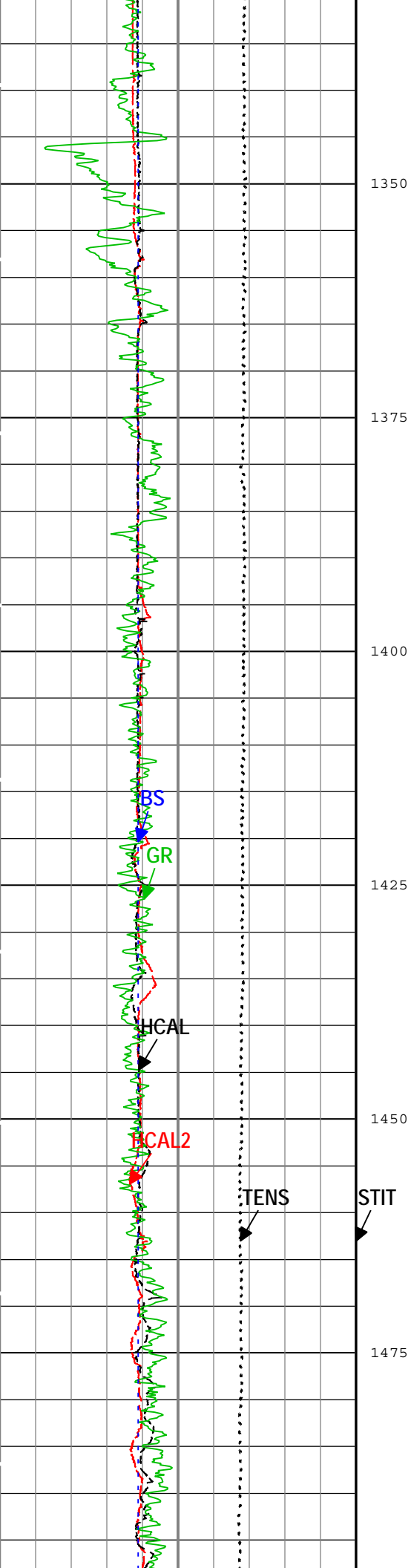


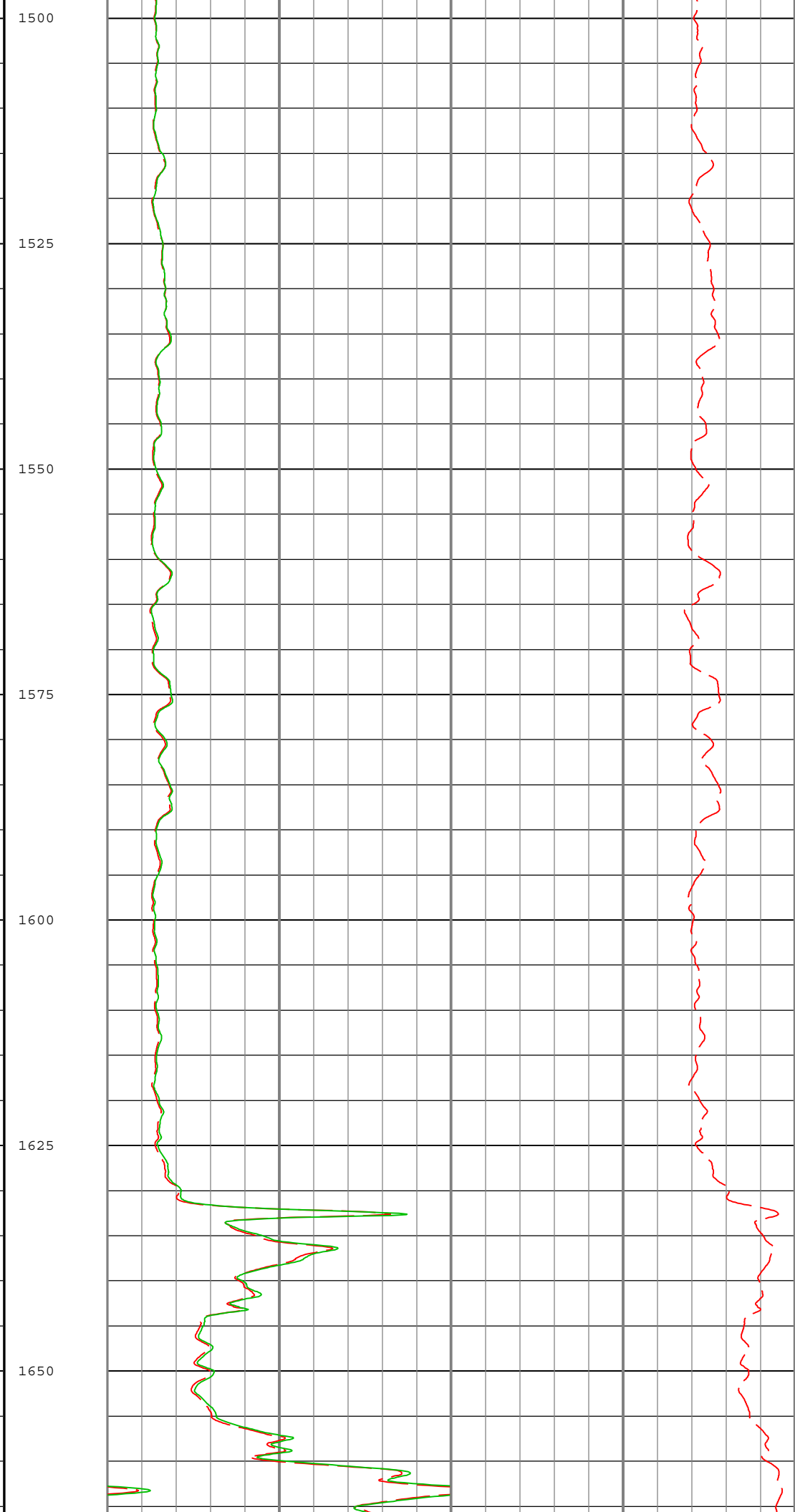
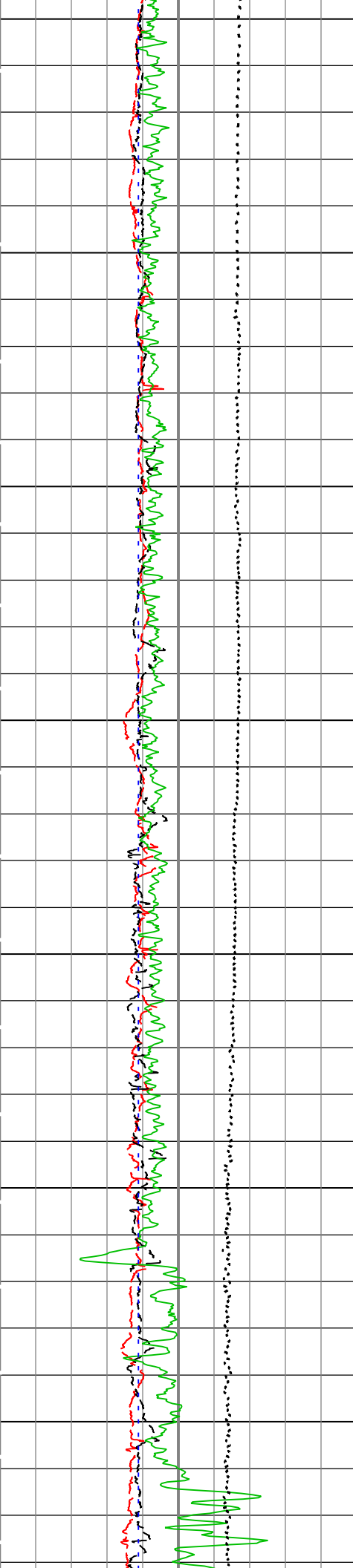


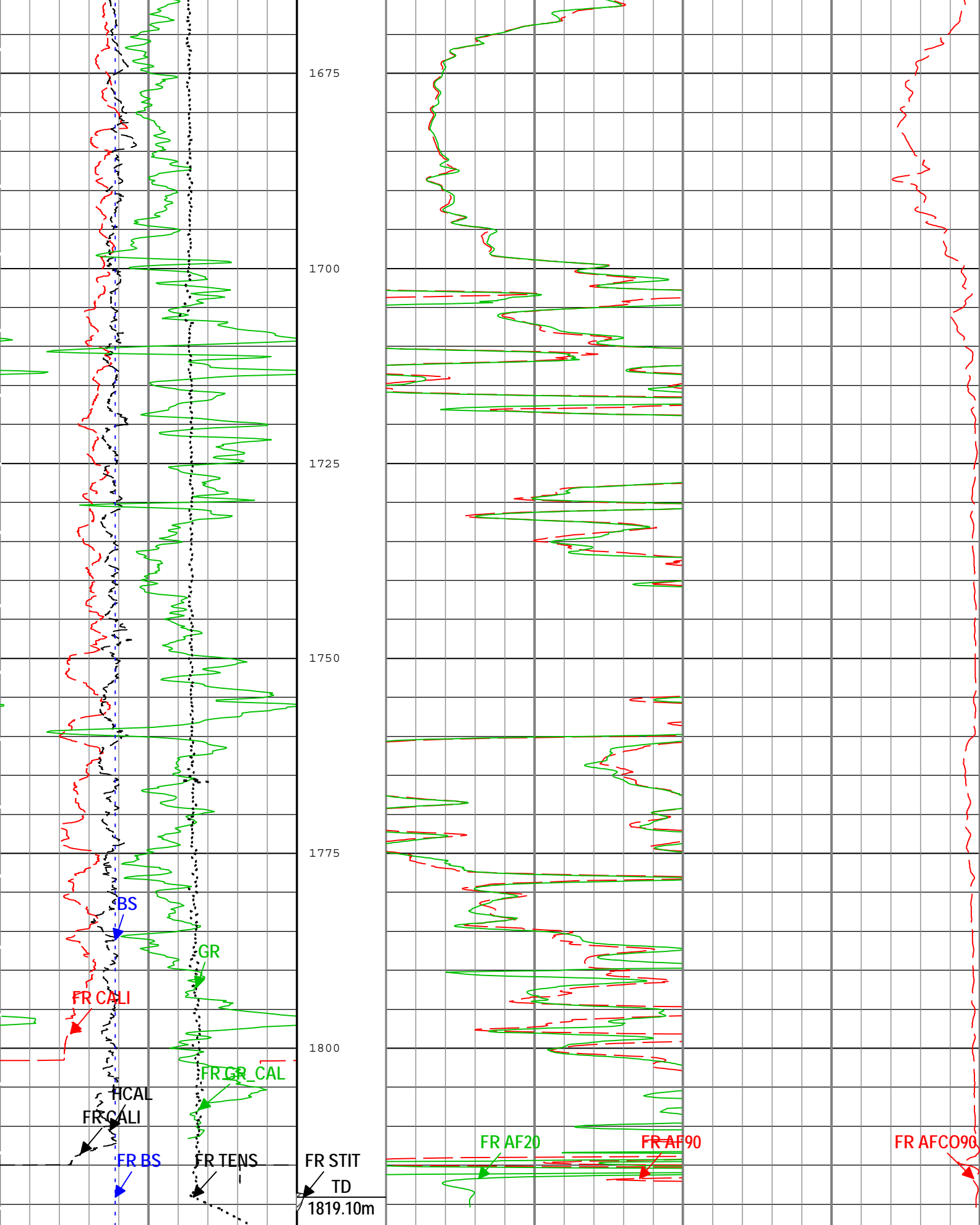












MAIN PASS: ARRAY INDUCTION LOG



HCAL		
125	mm	375
GR		
0	gAPI	300
Bit Size (BS)		
125	mm	375
Cable Tension (TENS)		
25000	N	0

Array Induction Four Foot Resistivity A90 (AF90) AIT-M		
0	ohm.m	50
Array Induction Four Foot Resistivity A20 (AF20) AIT-M		
0	ohm.m	50

TIME_1900 - Time Marked every 60.00 (s)

Description: MCFL processing LQC for Platform Express Format: Log (AIT-COND-600) Index Scale: 1:600 Index Unit: m Index Type: Measured Depth
Creation Date: 18-Jan-2014 22:05:48

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Mud Resistivity	
ACDE	Array Induction Casing Detection Enable	AIT-M	Yes	
ASTA	Array Induction Tool Standoff	AIT-M	40.64	mm
BHS	Borehole Status (Open or Cased Hole)	Borehole	Depth Zoned	
BHT	Bottom Hole Temperature	Borehole	71.5	degC
BS	Bit Size	WLSESSION	Depth Zoned	mm
CALI_SHIFT.1	CALI Supplementary Offset	HDRS-H	13.5	mm
CALI_SHIFT.2	CALI Supplementary Offset	HDRS-H	4.4	mm
CBLO	Casing Bottom (Logger)	WLSESSION	603	m
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	Depth Zoned	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	REMS	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
TD	Total Measured Depth	Borehole	1819.1	m
Depth Zone Parameters				
Parameter	Value	Start (m)	Stop (m)	
BHS	Cased	575	603	
BHS	Open	603	1822.88	
BS	311	575	603	
BS	222	603	1819.1	
GCSE_UP_PASS	BS	575	603	
GCSE_UP_PASS	CALI	603	1822.88	
All depth are actual.				
Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	548.64	m/h
1.1				
Software Version				
Acquisition System		Version		
MaxWell		4.0.0162.2000		

Maxwell	4.0.9163.3000
Application Patch	Patch-SP-10767_13075-4.0.9163.3001

Computation	Description		Version
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels		4.0.9213.3000
DepthCorrection	DepthCorrection		4.0.9213.3000
Tool Elements	Description	Software Version	Firmware Version
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AMIS	Array Induction Sonde - M	4.0.9247.3000	1

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All depths are referenced to toolstring zero

Log	Company:CONOCOPHILLIPS CANADA RESOURCES CORP. Well:COPRC DODO CANYON E76 1.1: Log[5]:Up:S023
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Description: MCFL processing LQC for Platform Express Format: Log (AIT-240) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth
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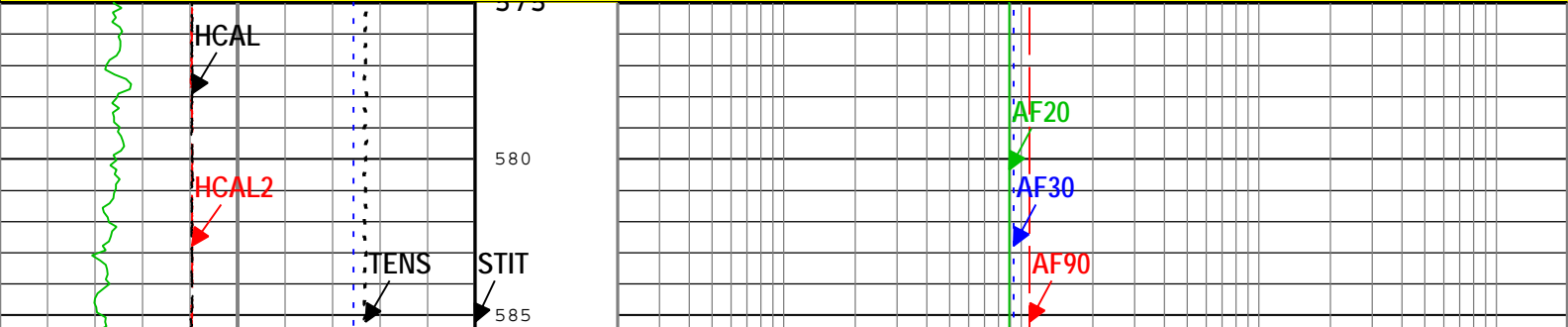
Channel	Source	Sampling
AF20	AIT-M:AMIS:AMIS	3in
AF30	AIT-M:AMIS:AMIS	3in
AF90	AIT-M:AMIS:AMIS	3in
BS	Borehole	6in
CALI.1	HDRS-H[1]:HRCC-H:HRCC-H	1in
CALI.2	HDRS-H[2]:HRCC-H:HRCC-H	1in
GR_CAL	HGNS-H:HGNS-H:HGNS-H	6in
STIT	DepthCorrection	6in
TENS	WLWorkflow	1in
TIME_1900	WLWorkflow	0.1in

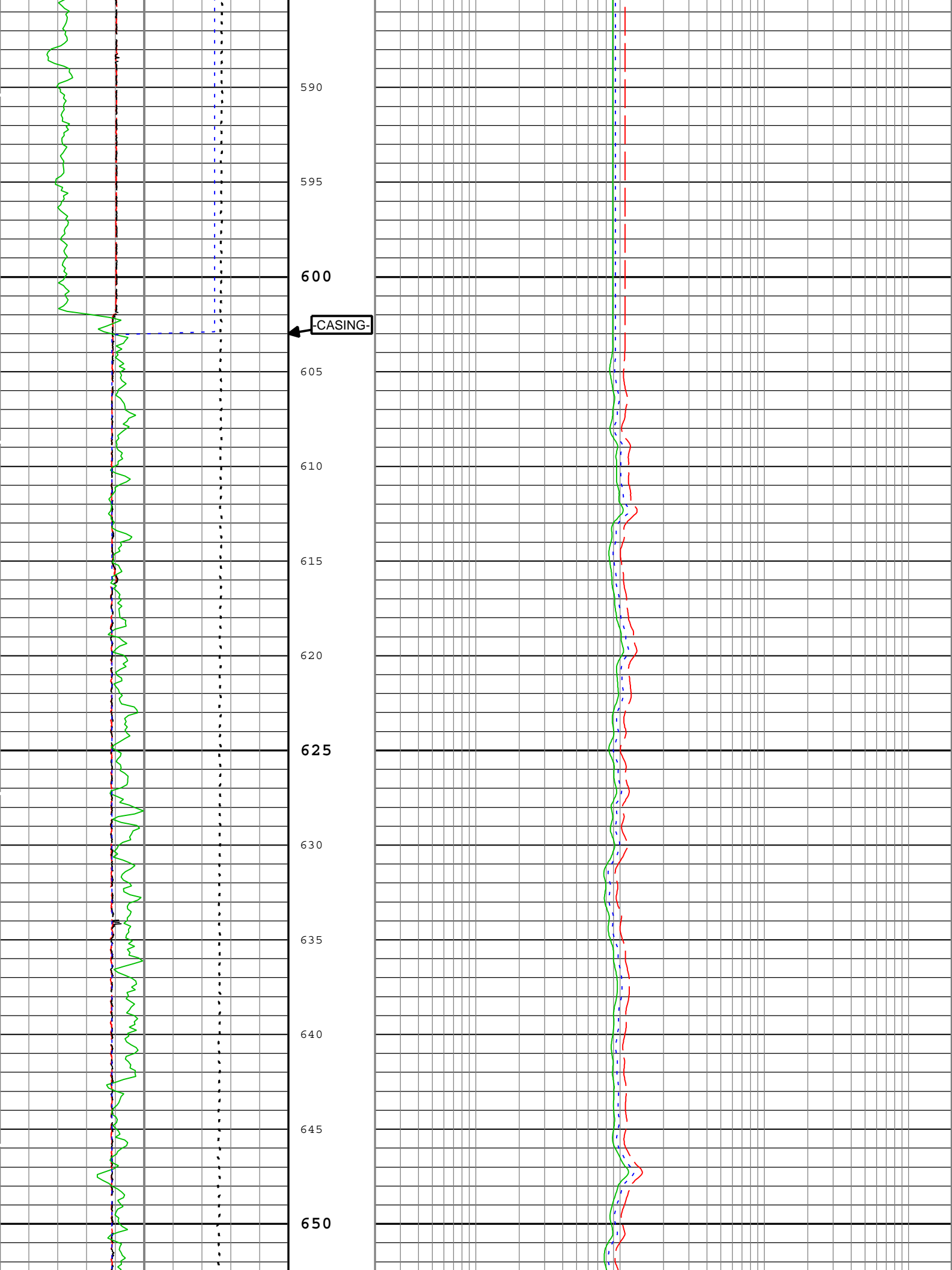
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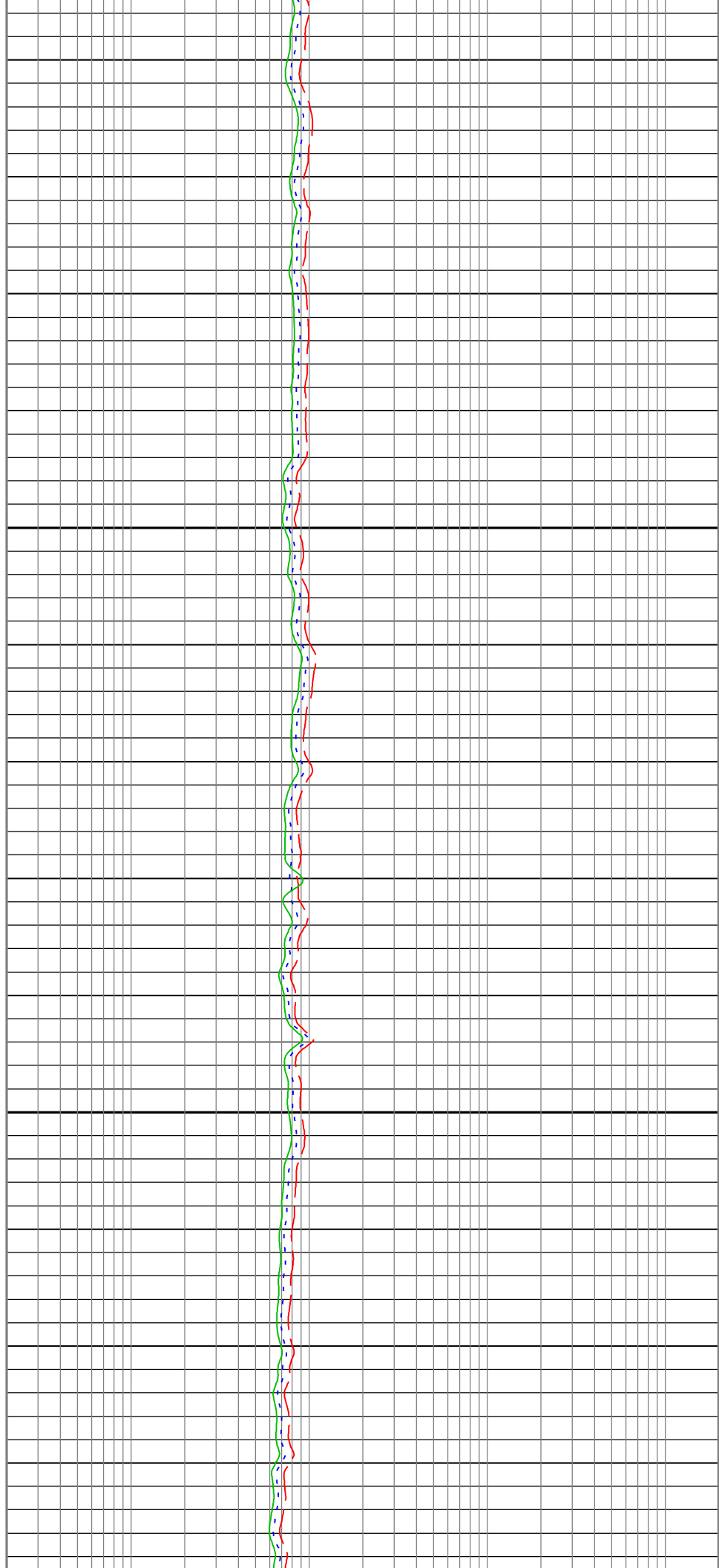
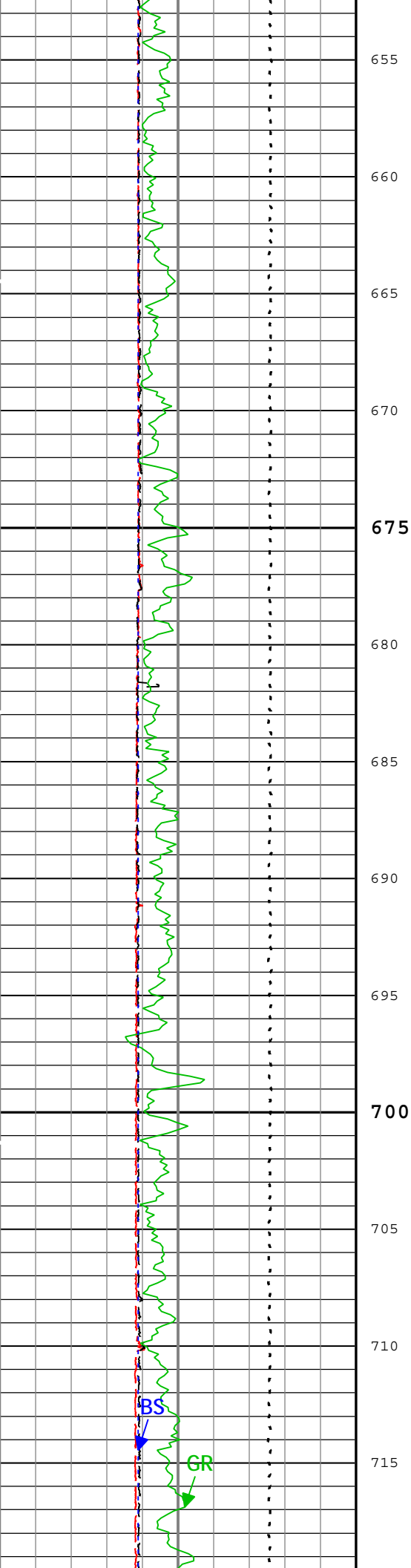
Cable Tension (TENS)		
25000	N	0
HCAL2		
125	mm	375
HCAL		
125	mm	375
GR		
0	gAPI	300
Bit Size (BS)		
125	mm	375

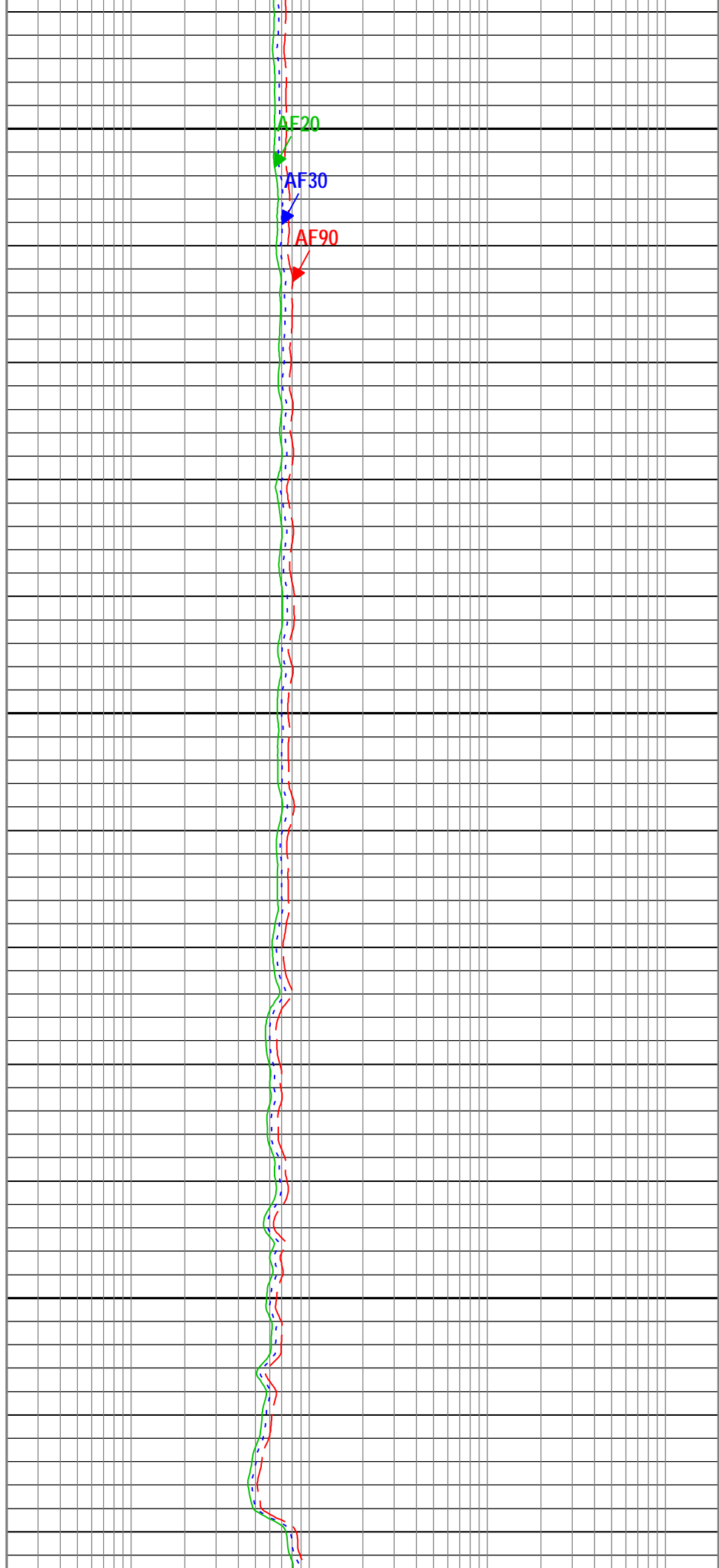
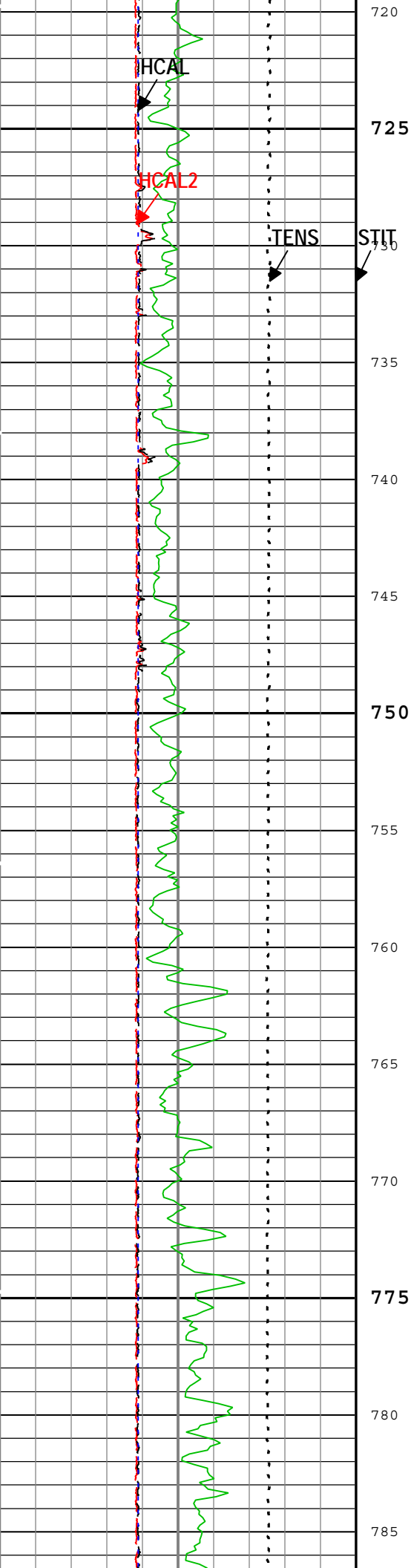
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Array Induction Four Foot Resistivity A30 (AF30) AIT-M		
0.2	ohm.m	2000
Array Induction Four Foot Resistivity A20 (AF20) AIT-M		
0.2	ohm.m	2000

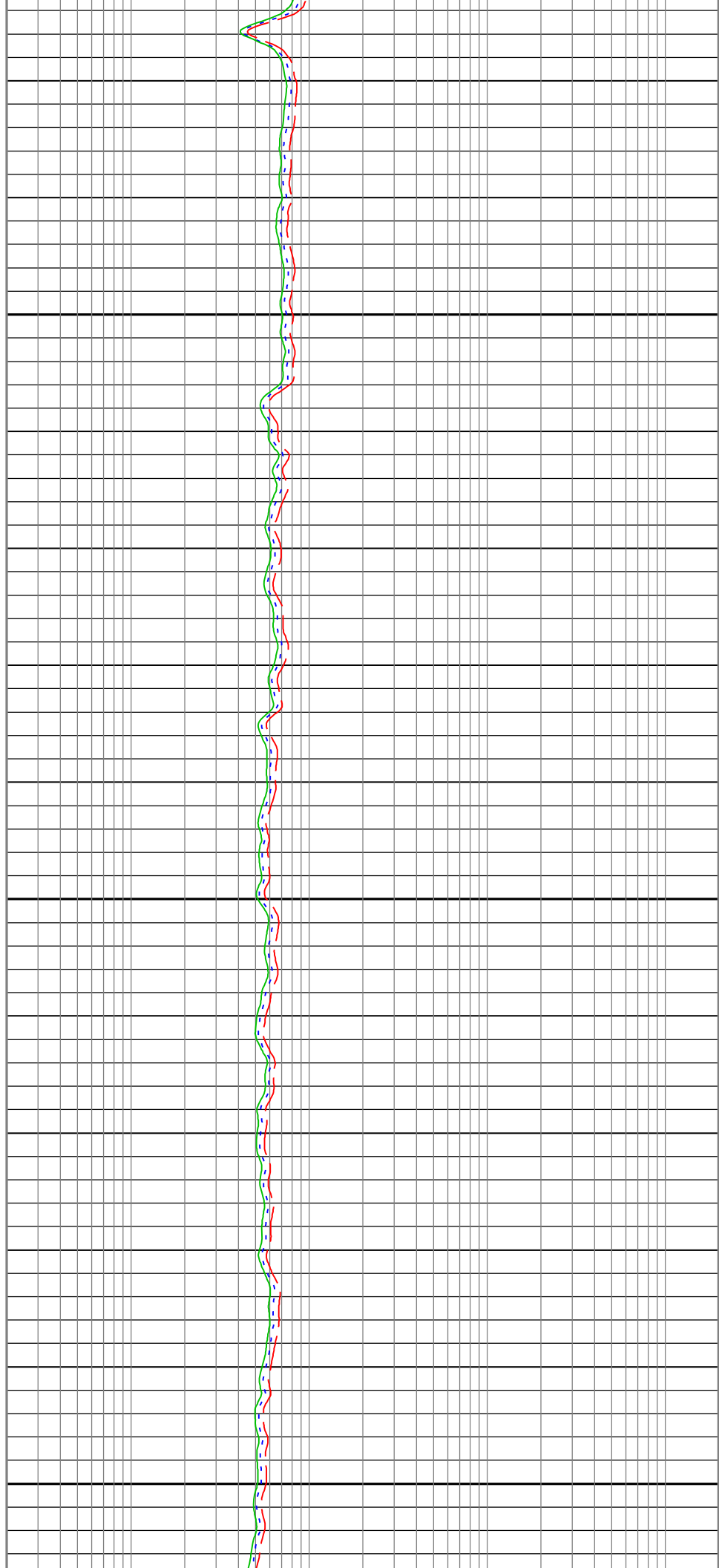
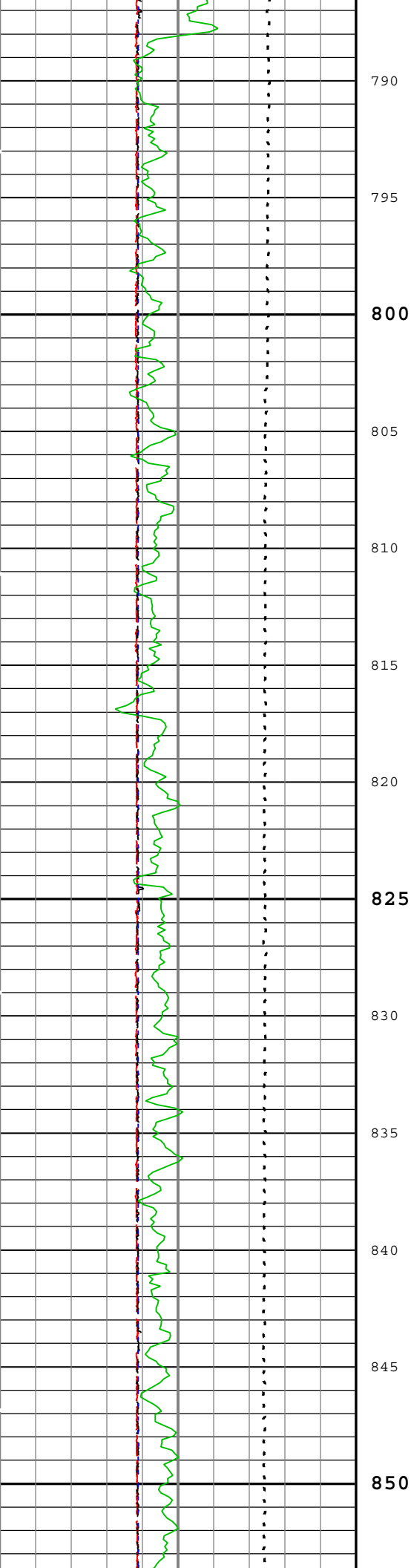
MAIN PASS: ARRAY INDUCTION LOG

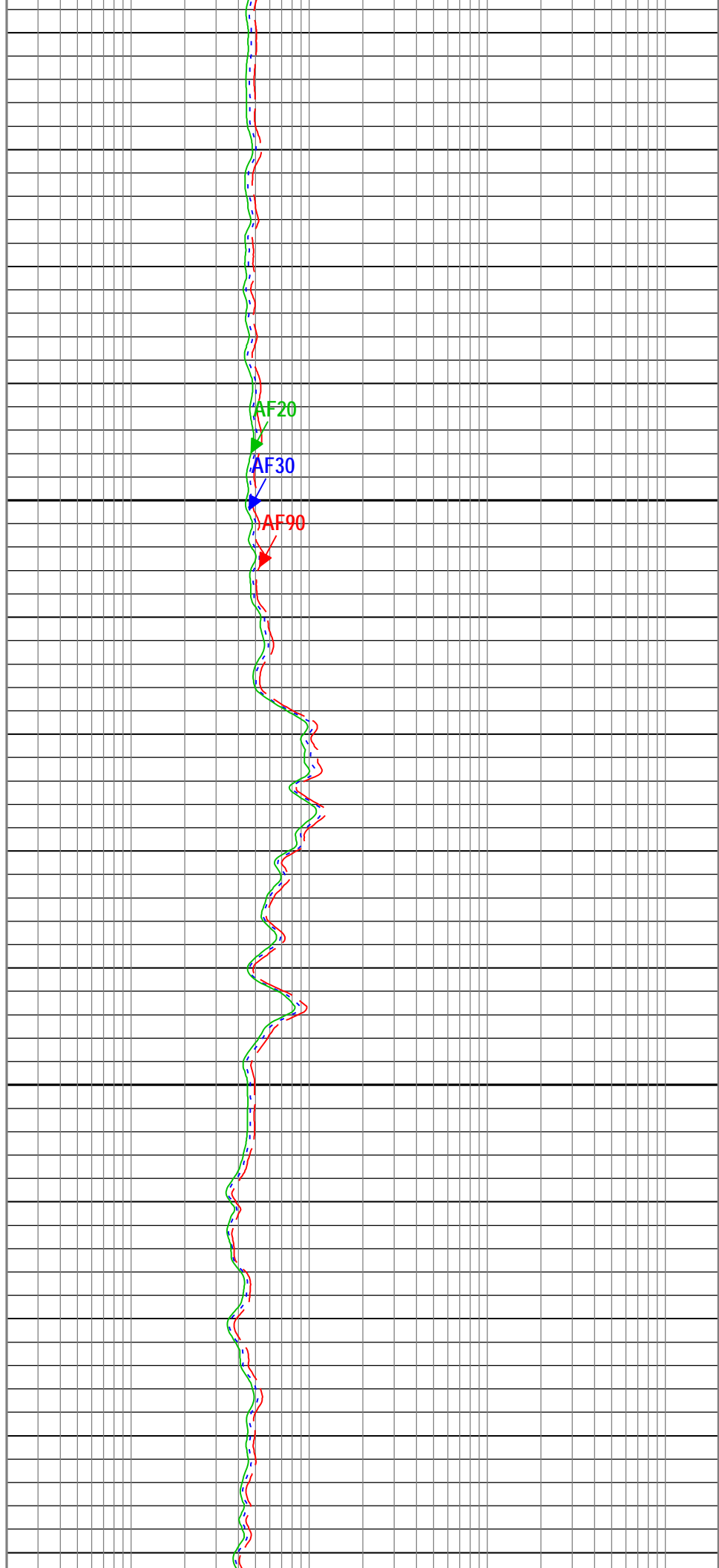
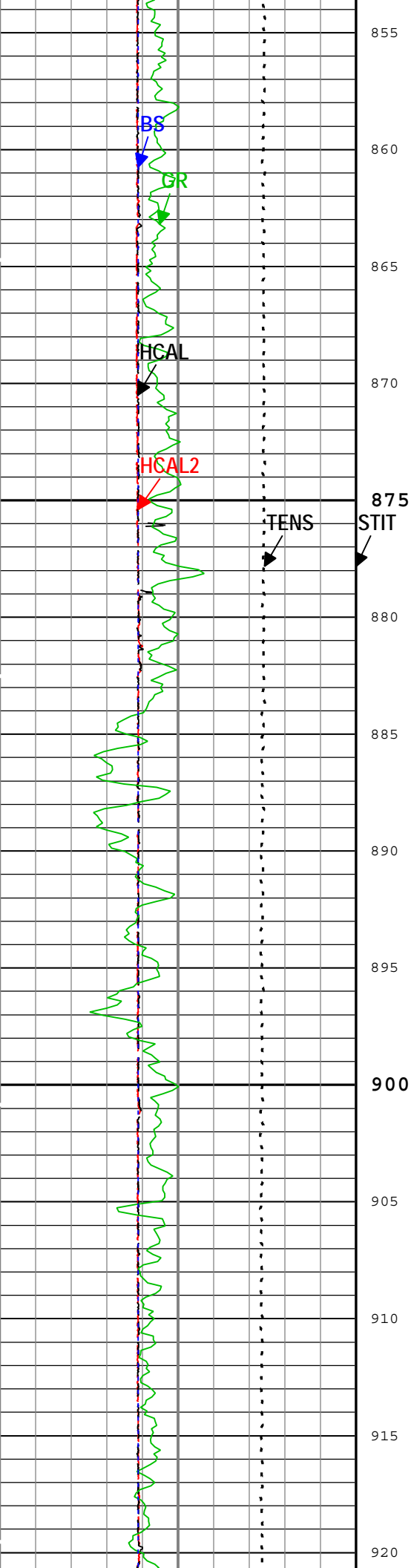


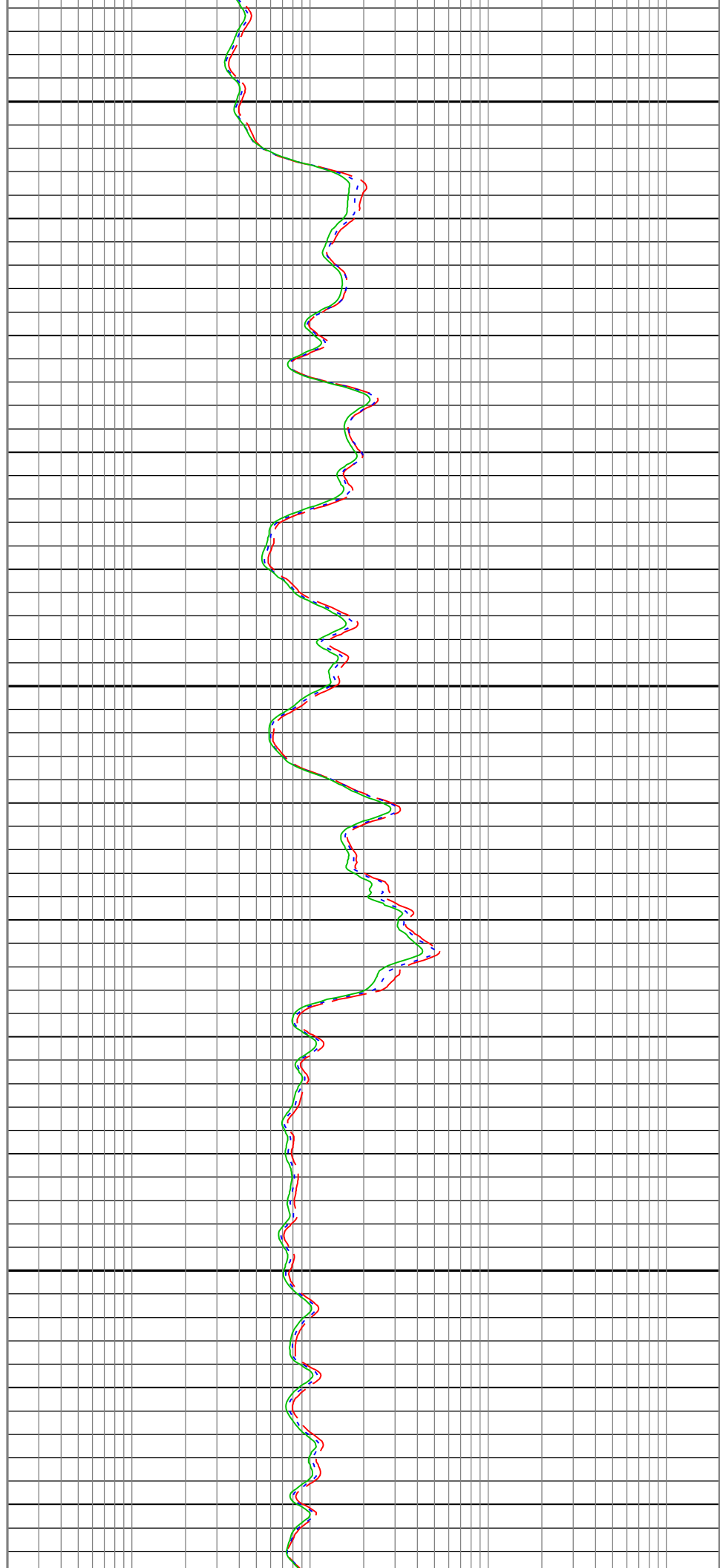
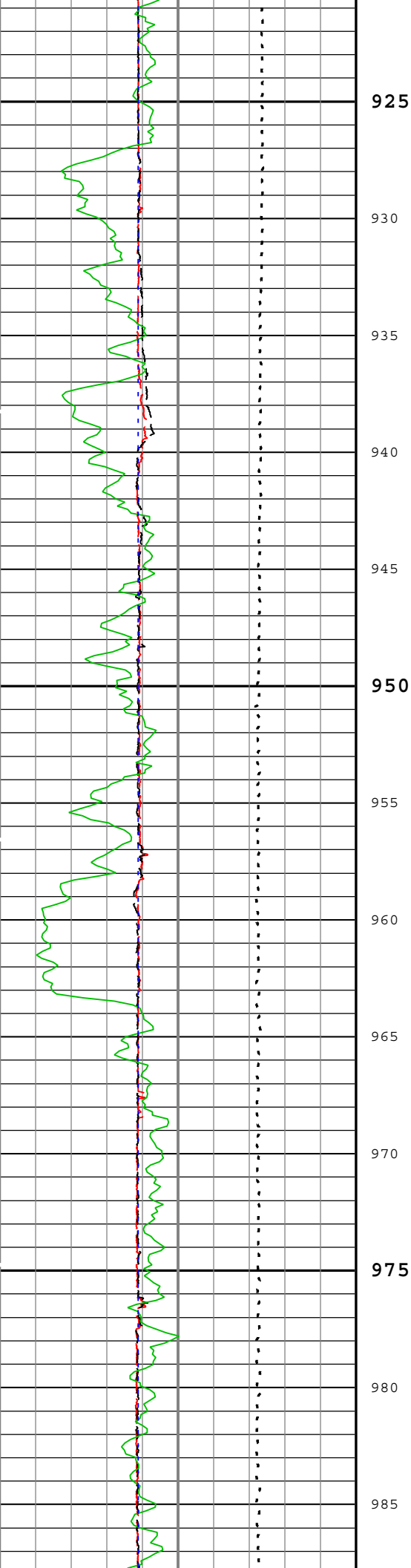


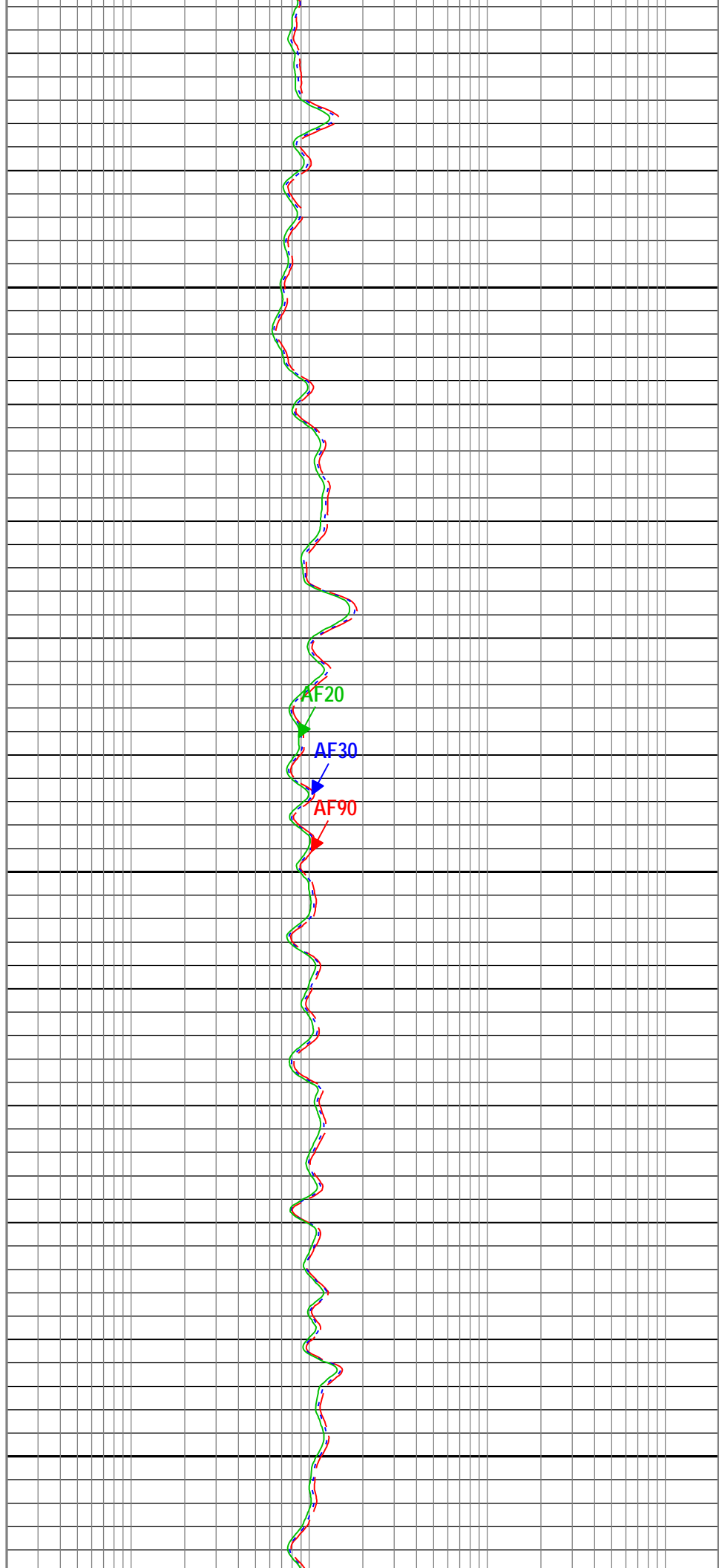
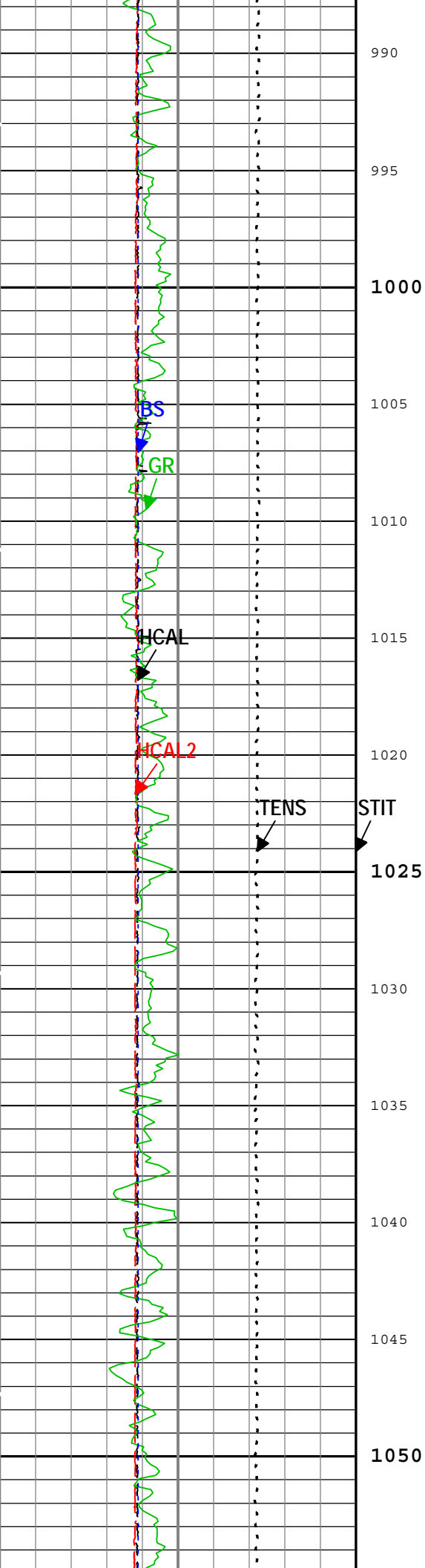


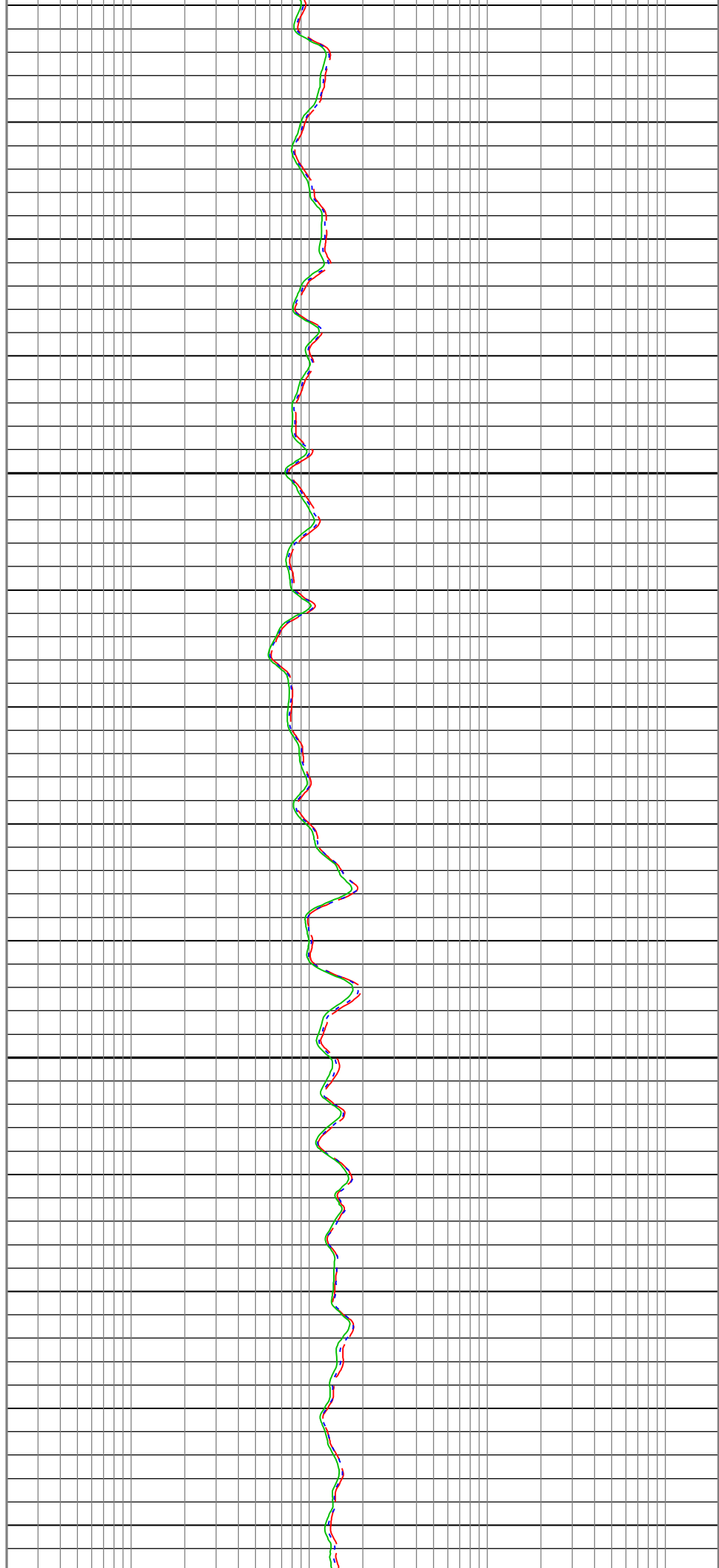
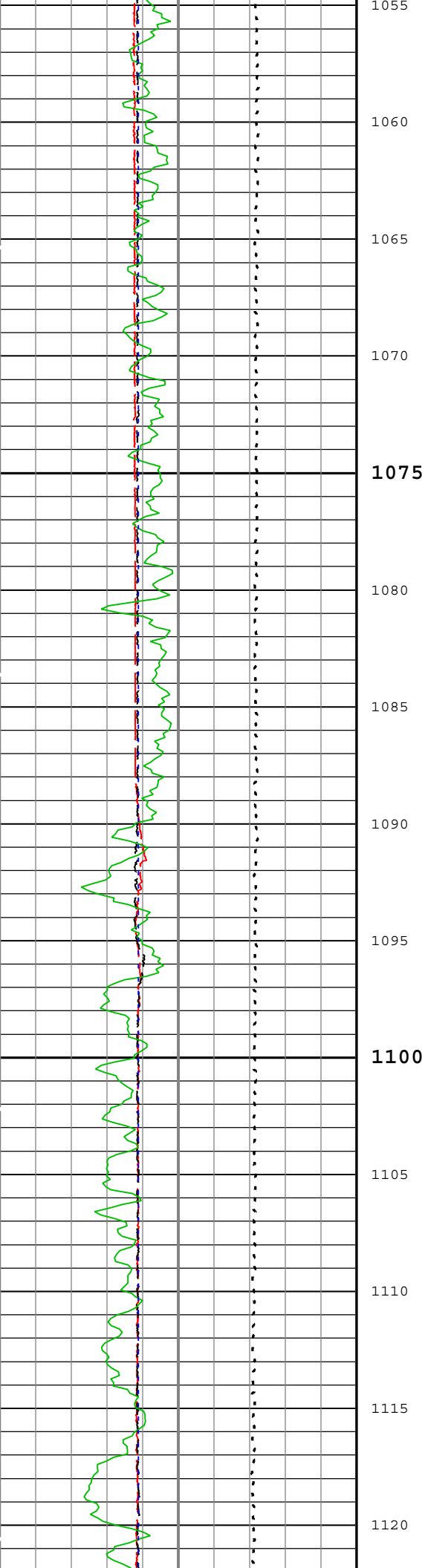


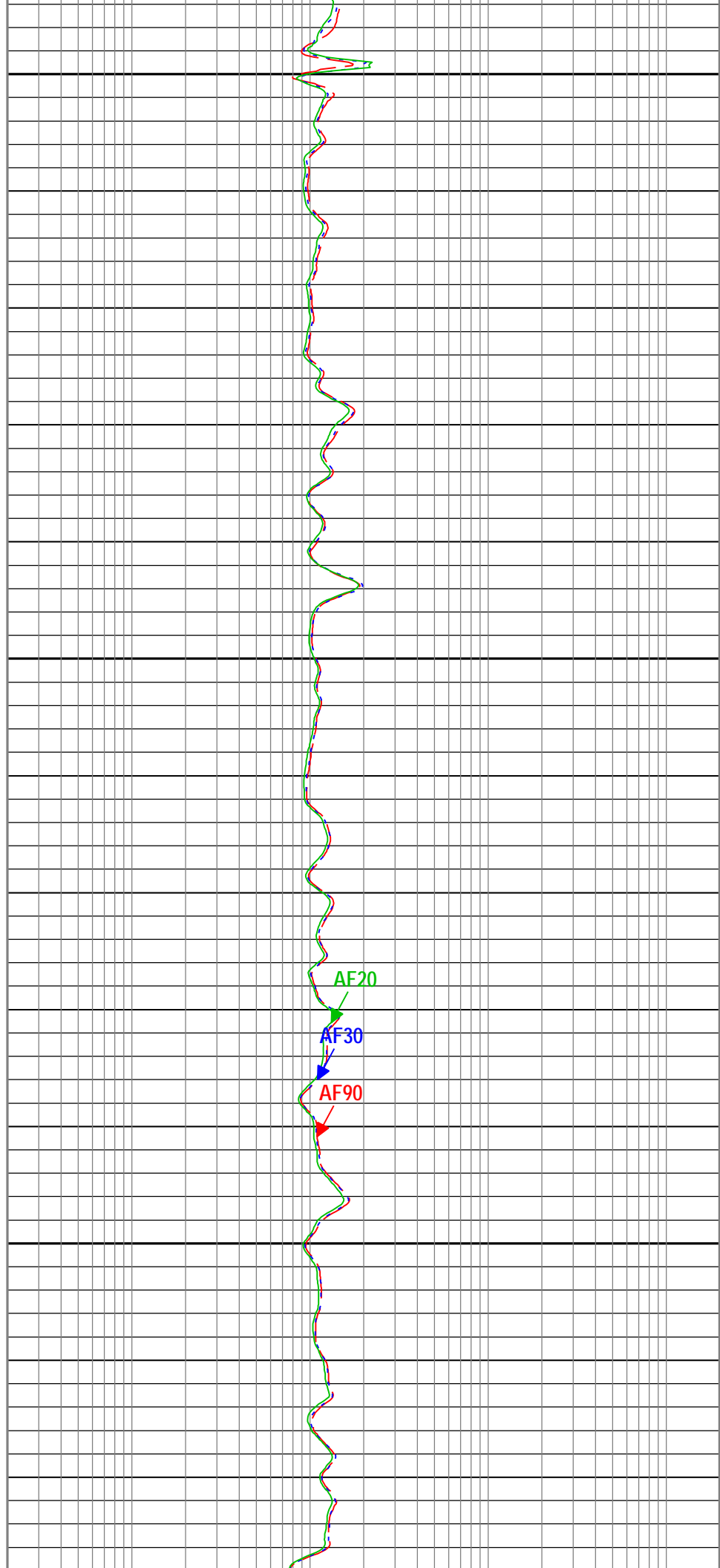
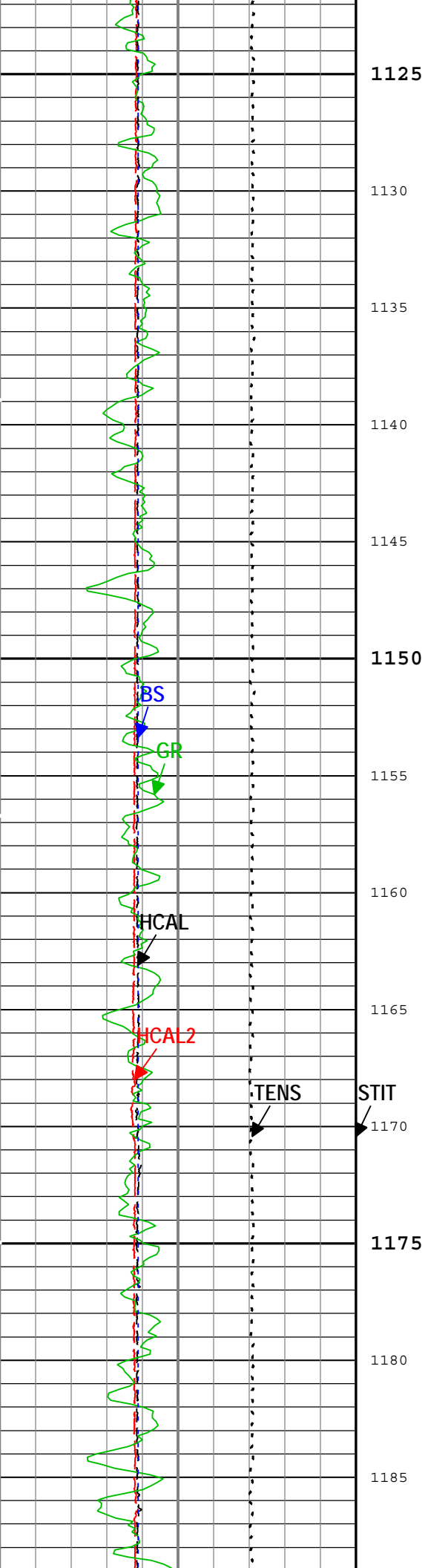


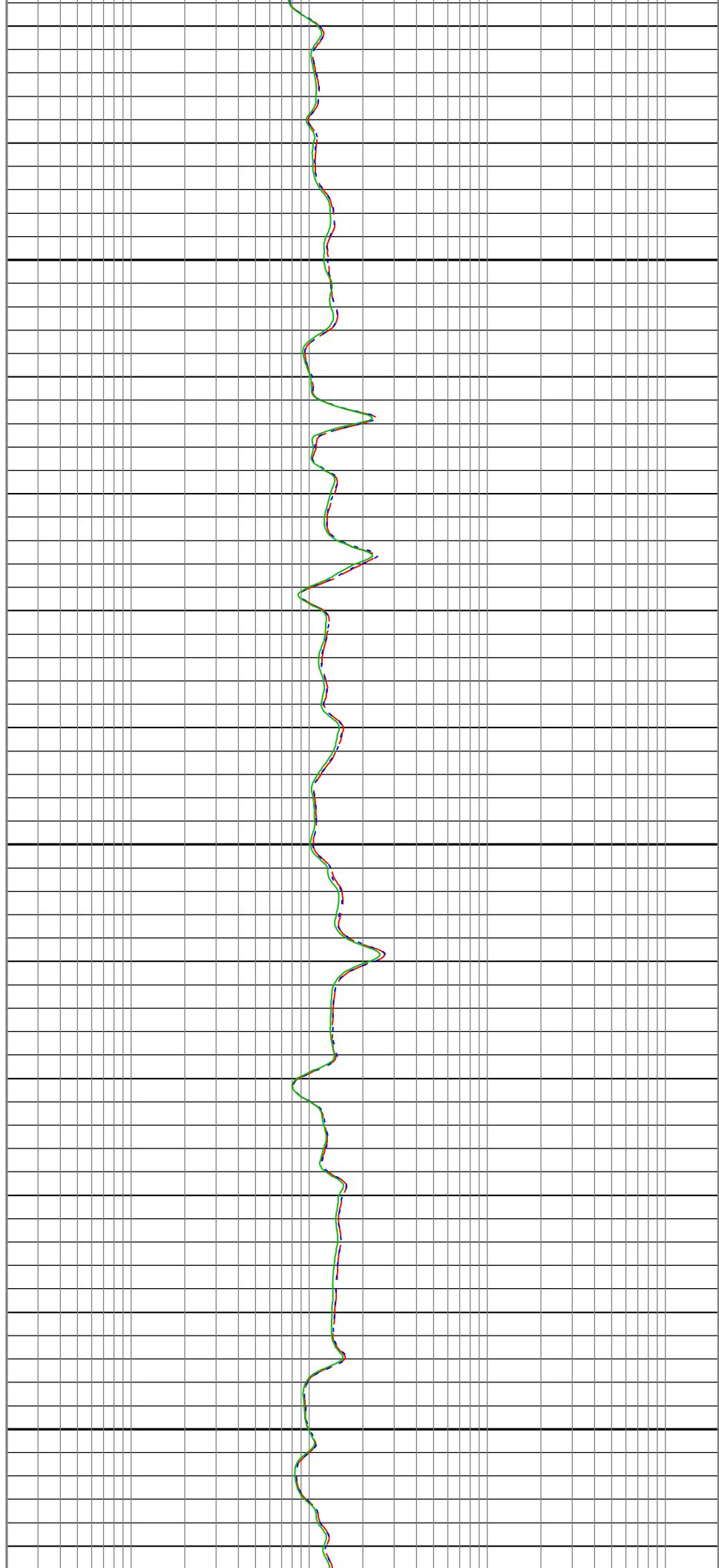
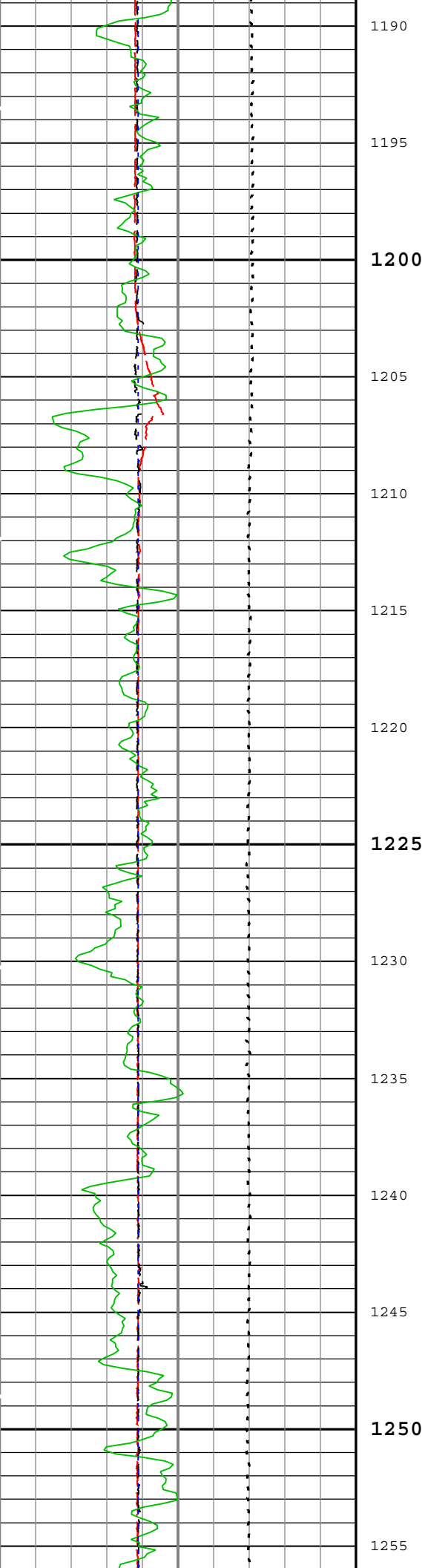


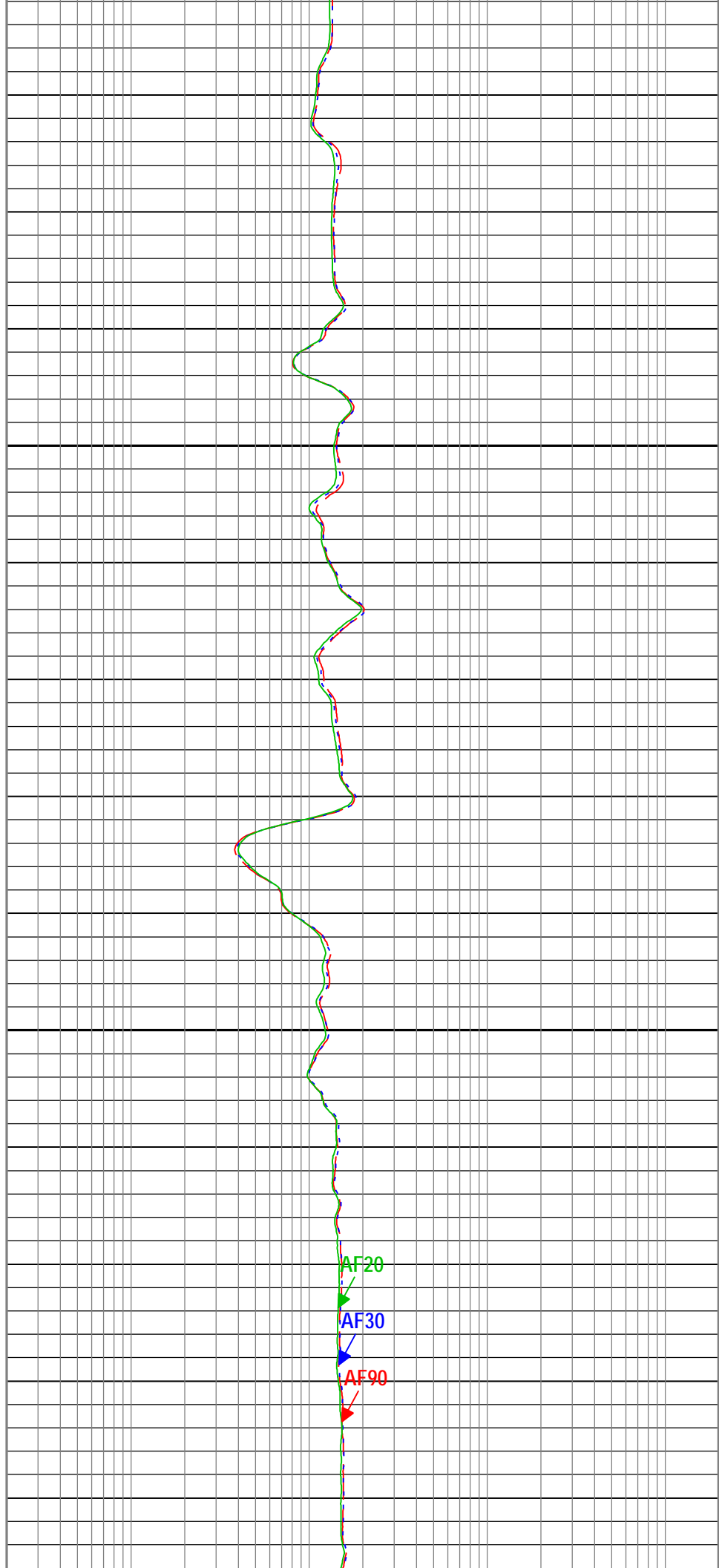
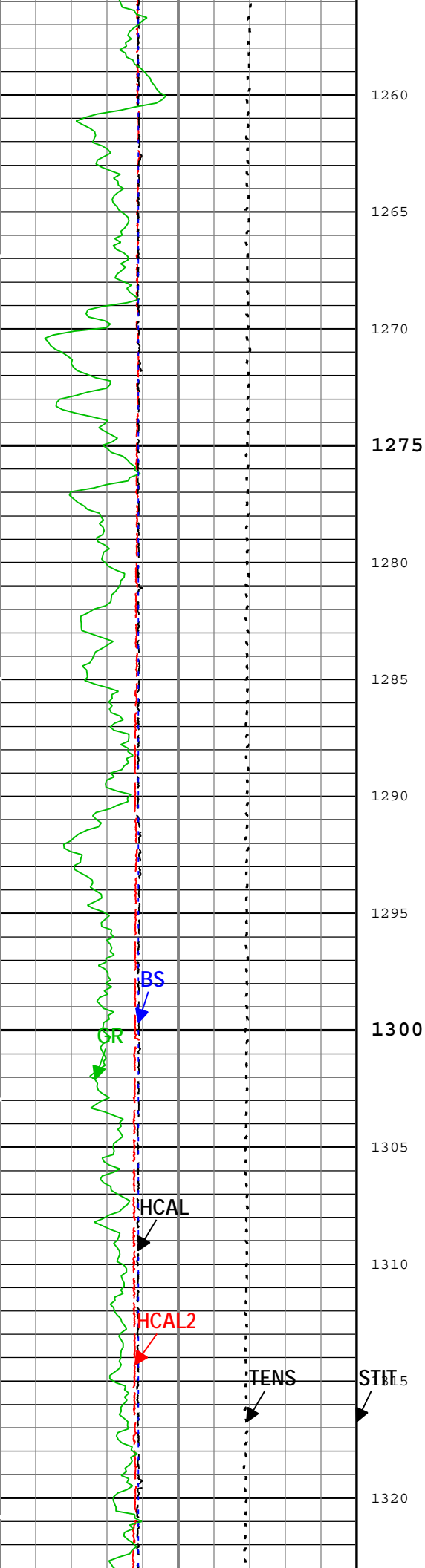


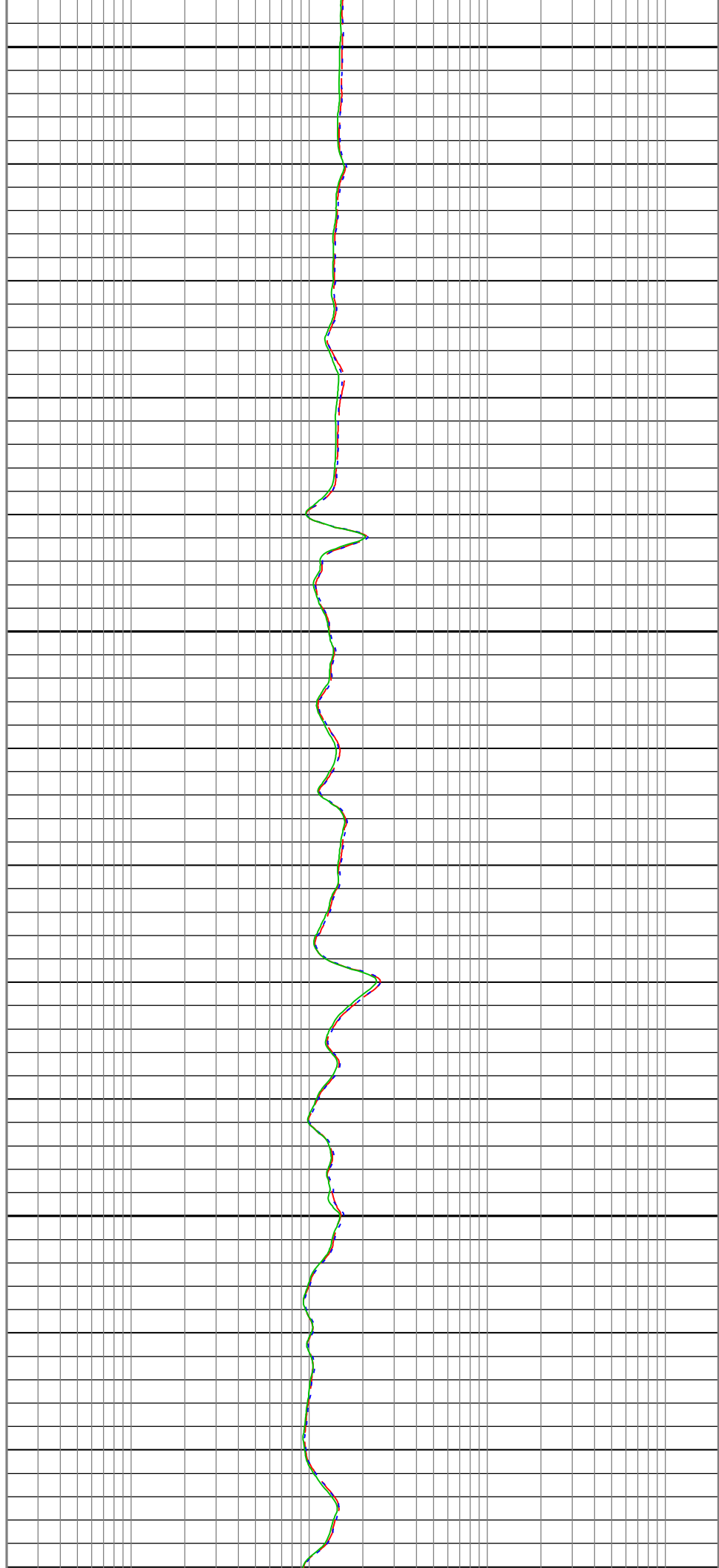
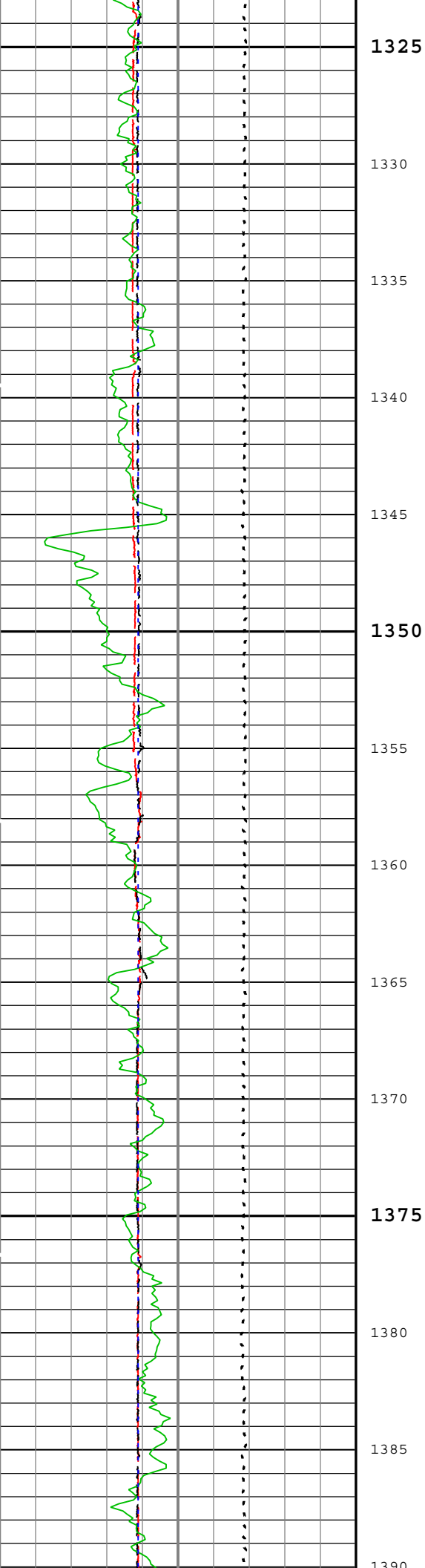


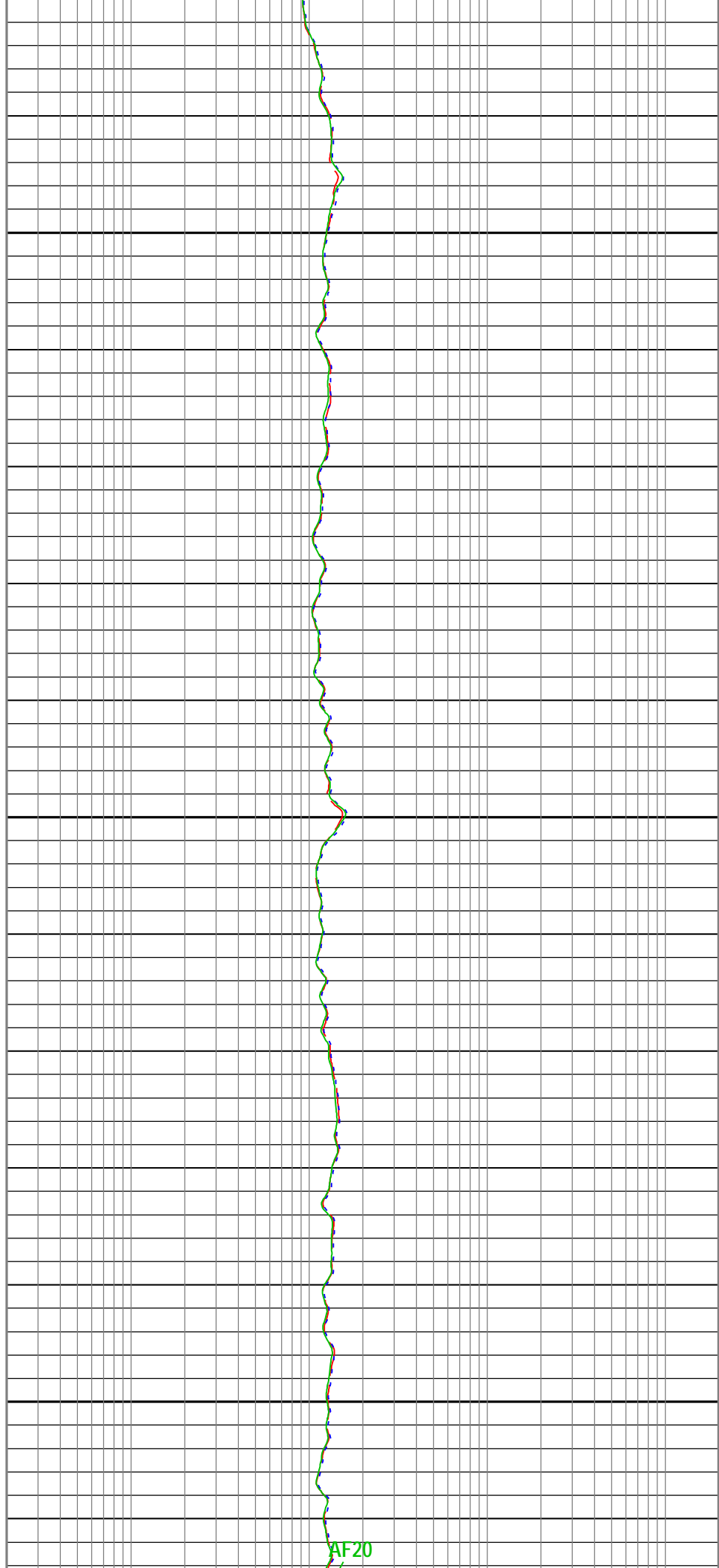
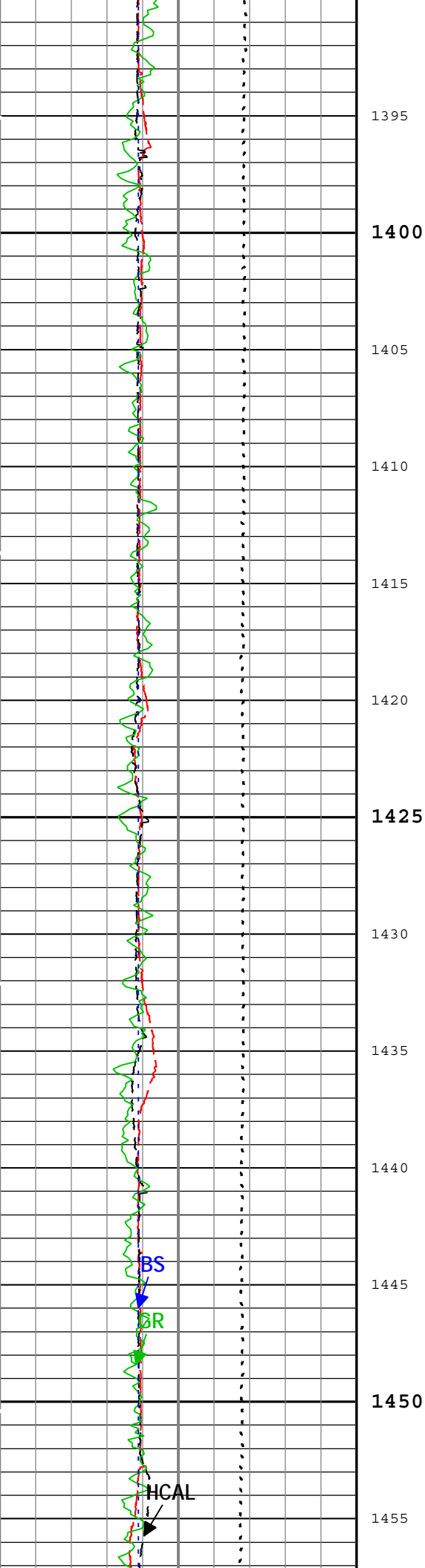


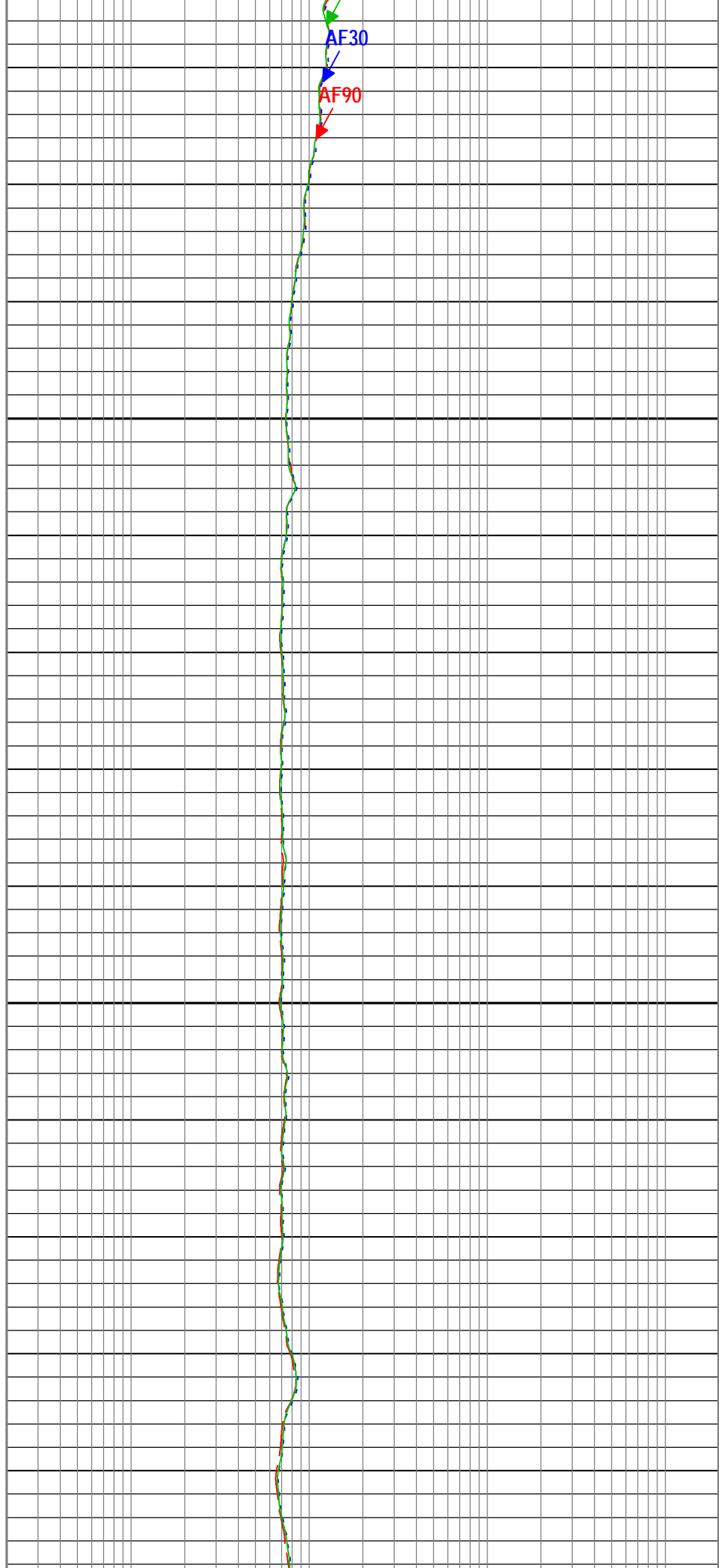
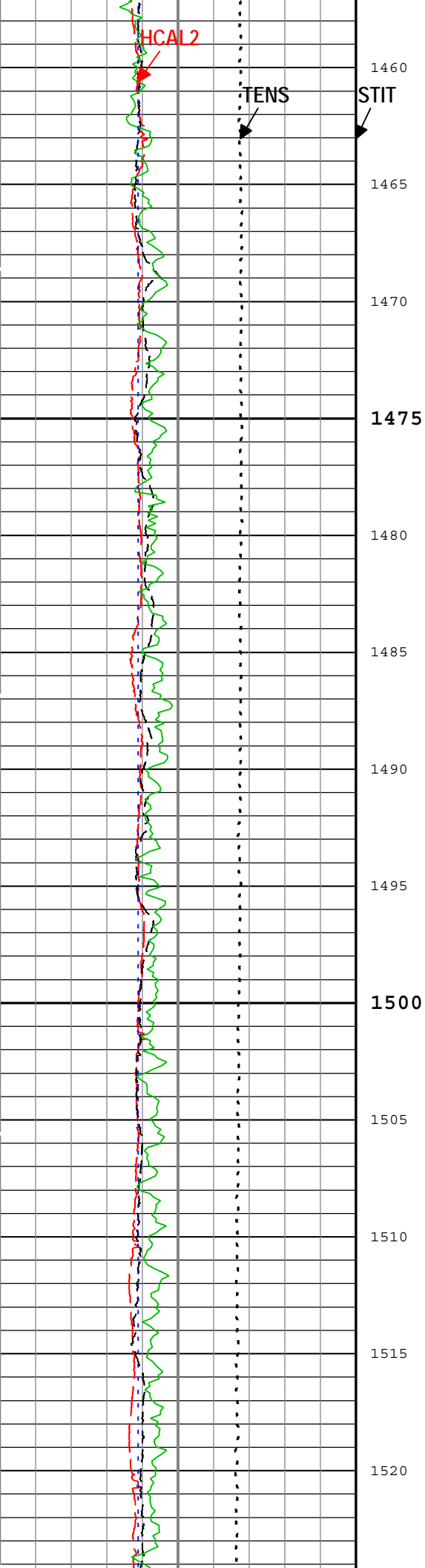


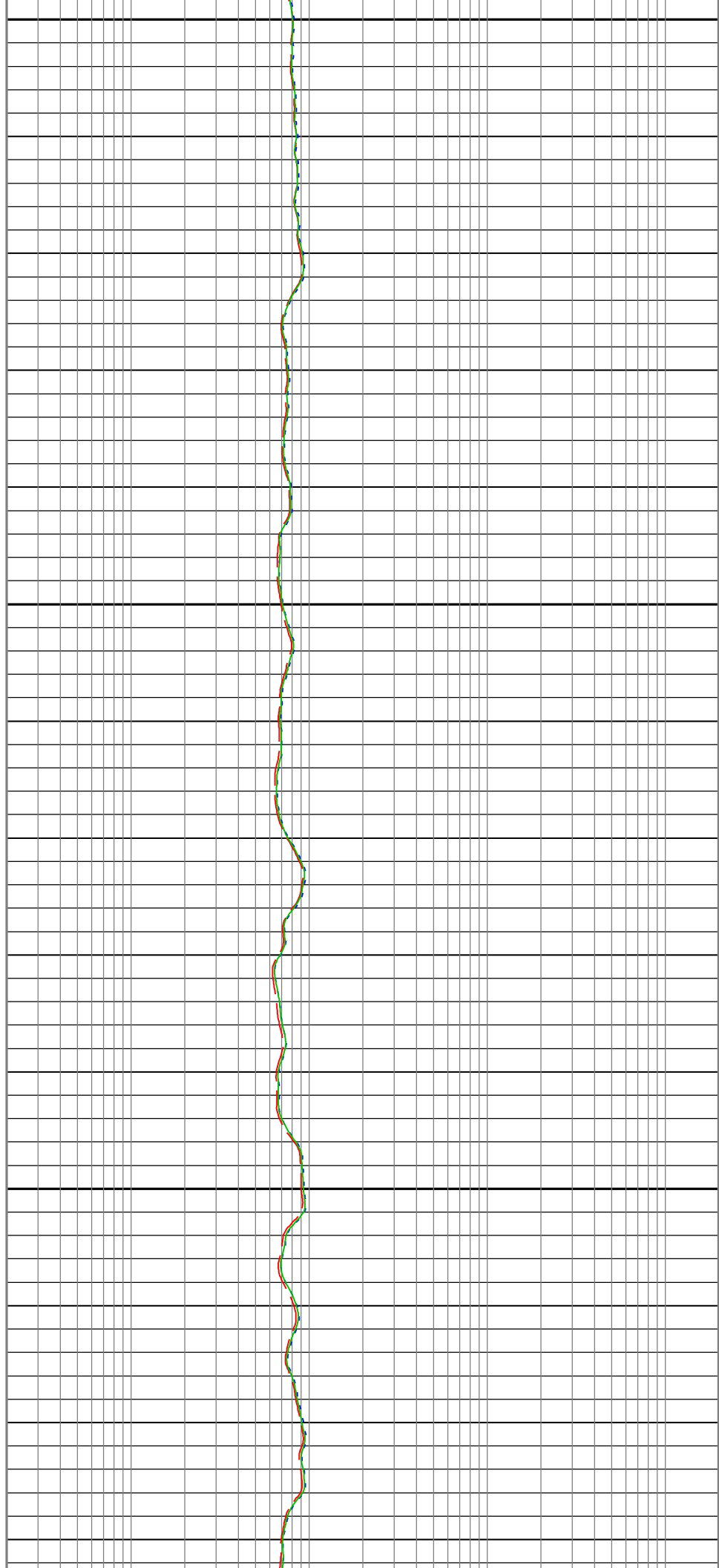
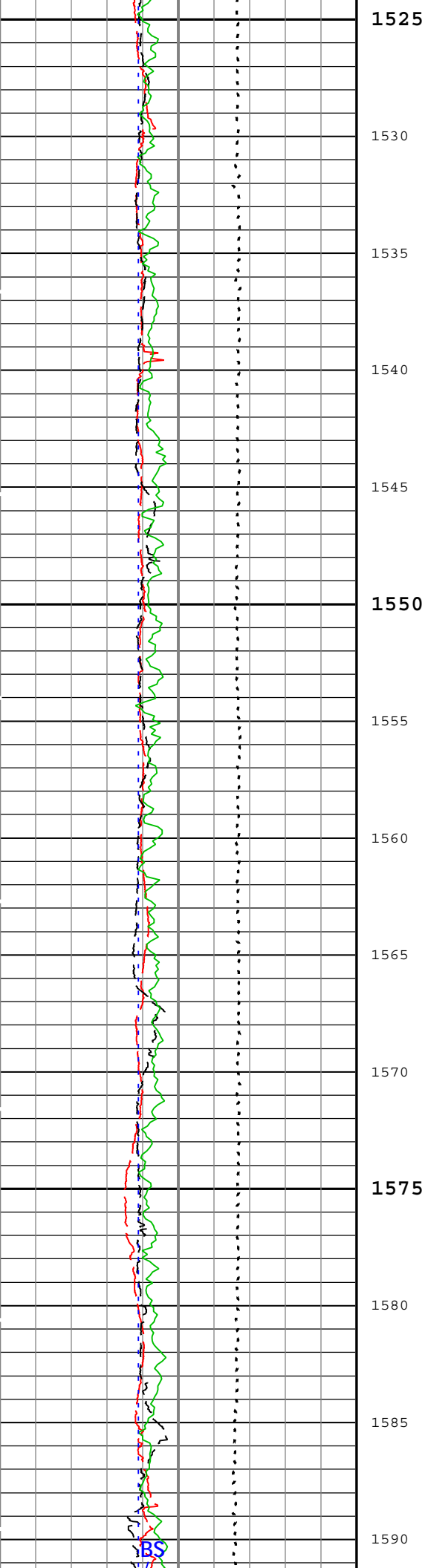


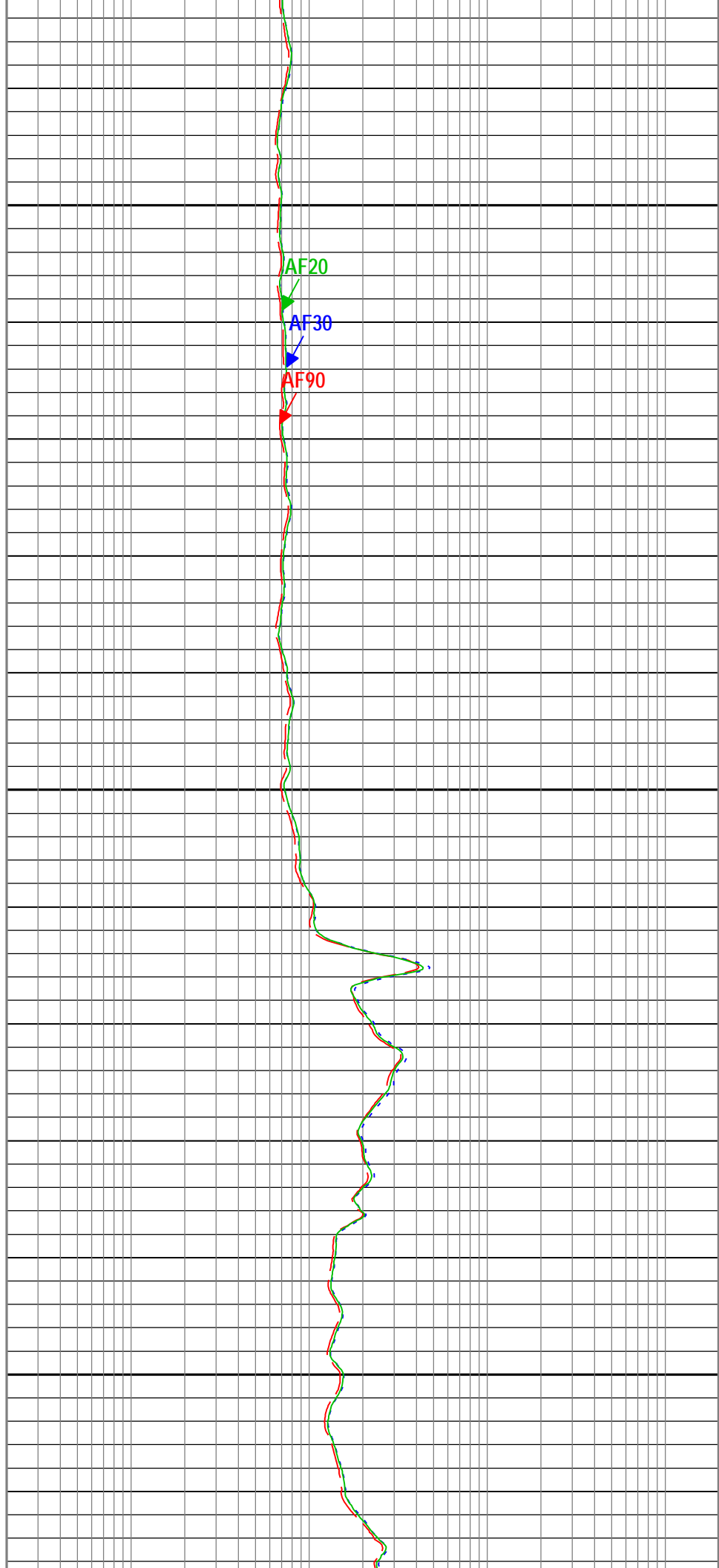
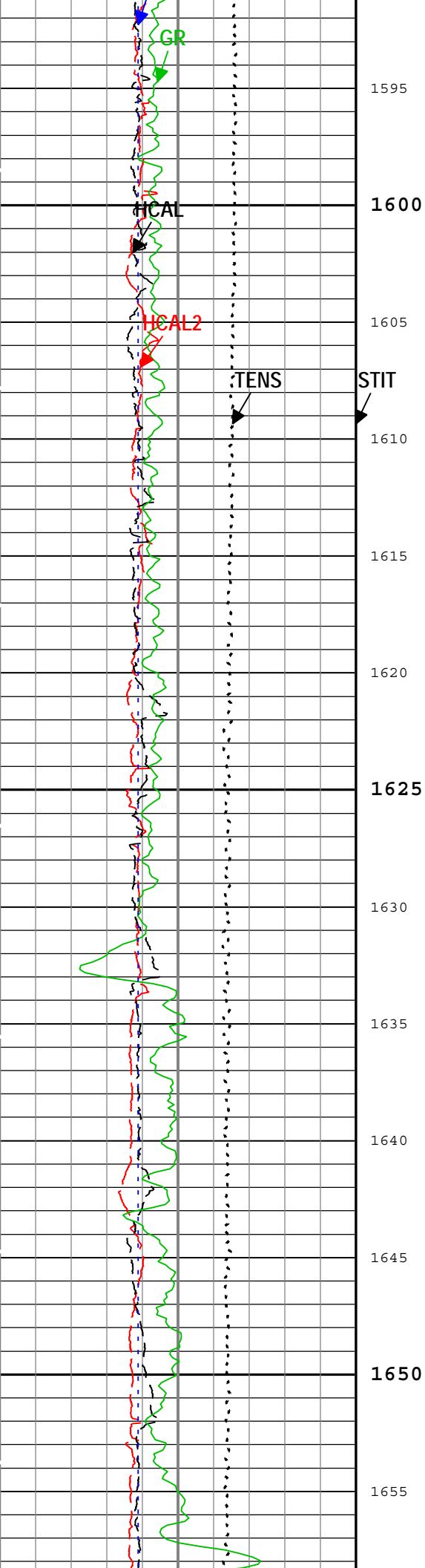


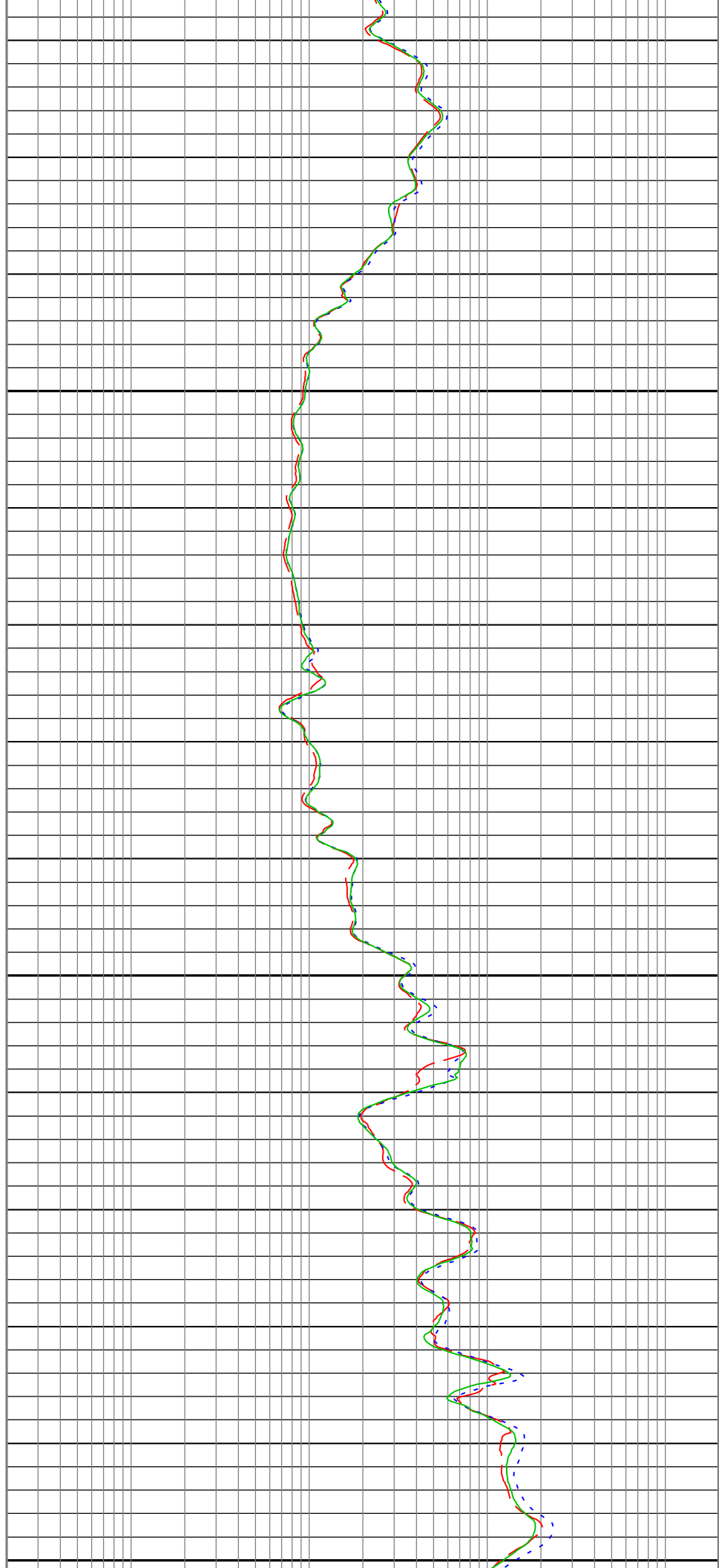
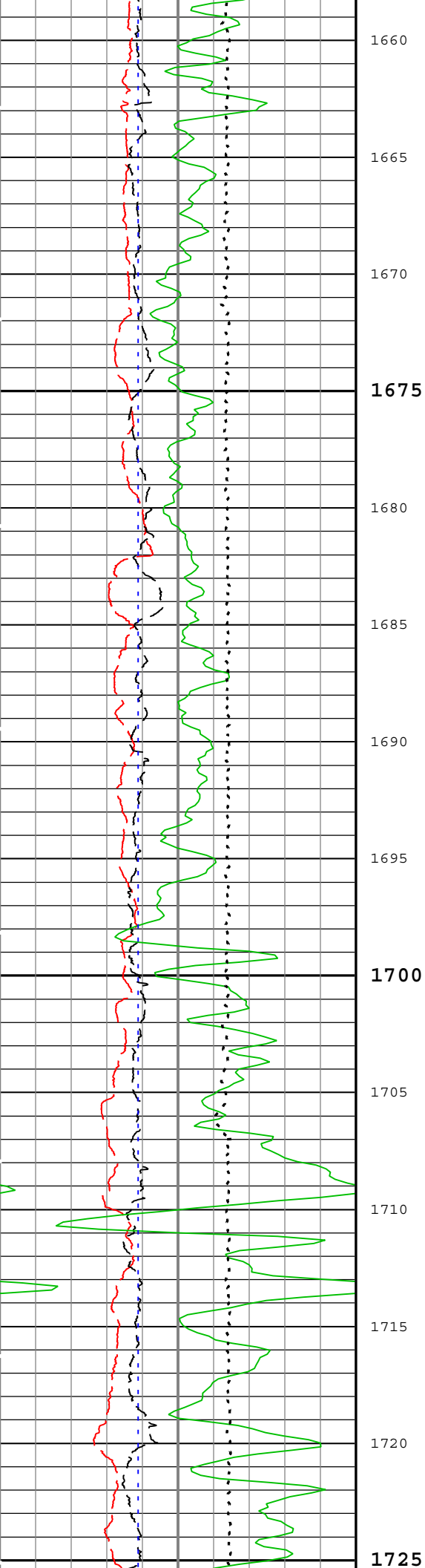


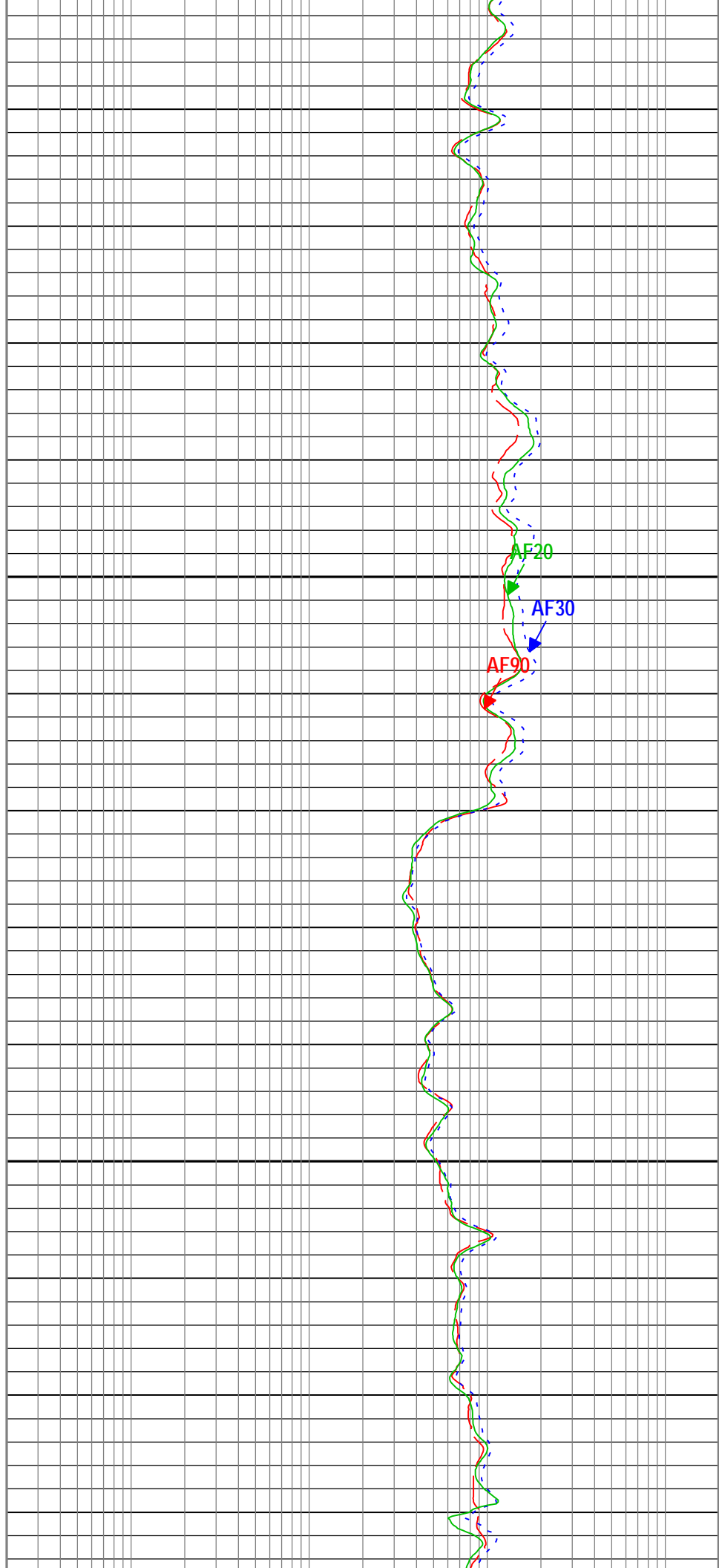
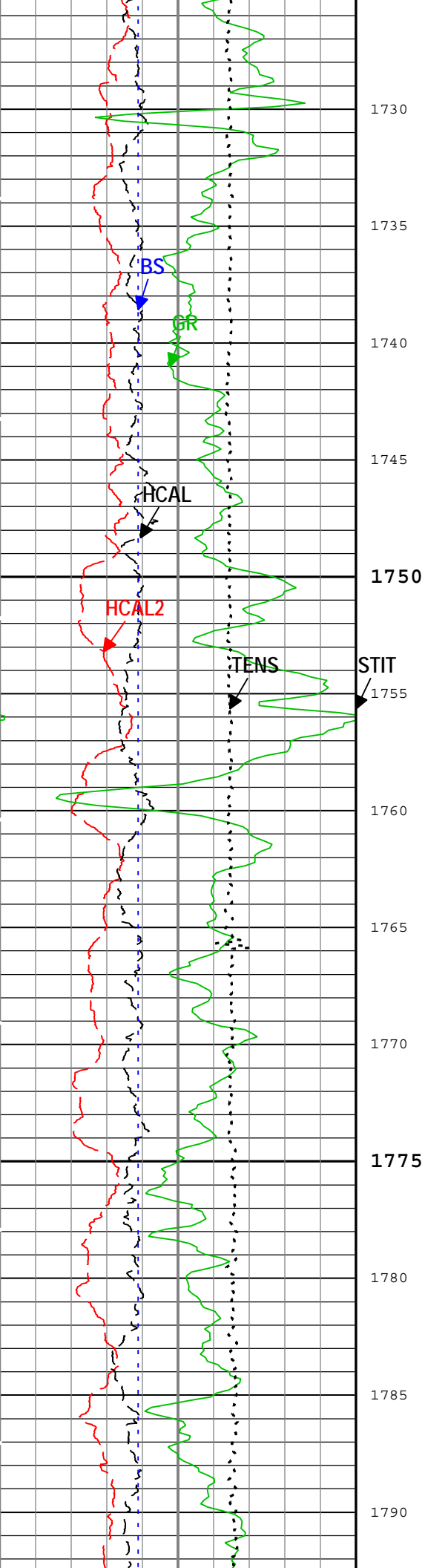


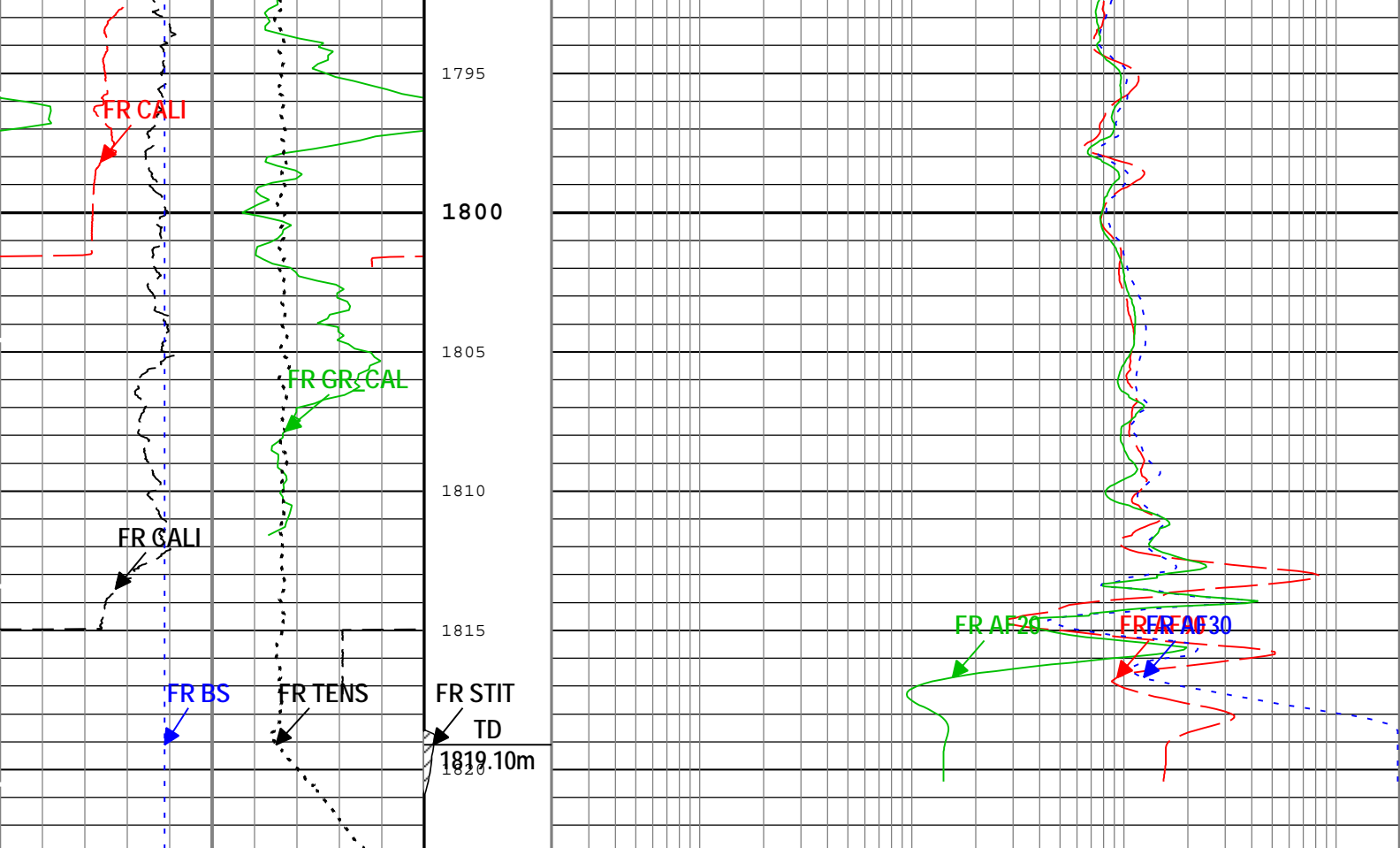












MAIN PASS: ARRAY INDUCTION LOG

HCAL2			Array Induction Four Foot Resistivity A90 (AF90) AIT-M		
125	mm	375	0.2	ohm.m	2000
HCAL			Array Induction Four Foot Resistivity A30 (AF30) AIT-M		
125	mm	375	0.2	ohm.m	2000
GR			Array Induction Four Foot Resistivity A20 (AF20) AIT-M		
0	gAPI	300	0.2	ohm.m	2000
Bit Size (BS)					
125	mm	375			
Cable Tension (TENS)					
25000	N	0			

TIME_1900 - Time Marked every 60.00 (s)

Description: MCFL processing LOC for Platform Express Format: Log (AIT-240) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth
 Creation Date: 18-Jan-2014 22:05:50

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
AAPL	Array Induction Answer Product Level(Depth Log/View only)	AIT-M	Radial	
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Mud Resistivity	
ACDE	Array Induction Casing Detection Enable	AIT-M	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	AIT-M	Eccentered	
AMRF	Array Induction Mud Resistivity Factor	AIT-M	1	
ASTA	Array Induction Tool Standoff	AIT-M	40.64	mm
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	AIT-M	Internal	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Depth Zoned	
BHT	Bottom Hole Temperature	Borehole	71.5	degC
BS	Bit Size	WI SESSION	Depth Zoned	mm

	BIT SIZE	RESOLUTION	Depth Zone	UNIT
CALI_SHIFT.1	CALI Supplementary Offset	HDRS-H	13.5	mm
CALI_SHIFT.2	CALI Supplementary Offset	HDRS-H	4.4	mm
CBLO	Casing Bottom (Logger)	WLSESSION	603	m
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	Depth Zoned	
GR_MULTIPLIER	Gamma Ray Multiplier	HGNS-H	1	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	REMS	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
TD	Total Measured Depth	Borehole	1819.1	m

Depth Zone Parameters

Parameter	Value	Start (m)	Stop (m)
BHS	Cased	575	603
BHS	Open	603	1822.88
BS	311	575	603
BS	222	603	1819.1
GCSE_UP_PASS	BS	575	603
GCSE_UP_PASS	CALI	603	1822.88

All depth are actual.

Tool Control Parameters	
-------------------------	--

Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	548.64	m/h

1.1

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1.1	Log[4]:Up	Up	1664.09 m	1816.40 m	14-Jan-2014 6:23:51 PM	14-Jan-2014 6:42:06 PM	ON	1.27 m	Yes
1.1	Log[5]:Up	Up	543.85 m	1822.88 m	14-Jan-2014 6:48:20 PM	14-Jan-2014 8:17:20 PM	ON	-1.90 m	Yes

All depths are referenced to toolstring zero

Log

Company: CONOCOPHILLIPS CANADA RESOURCES CORP. Well: COPRC DODO CANYON E76

1.1 | Log[5]: Up: S023

Description: MCFL processing LQC for Platform Express Format: Log (AIT-240 RA) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth
Creation Date: 18-Jan-2014 22:05:53

TIME_1900 - Time Marked every 60.00 (s)

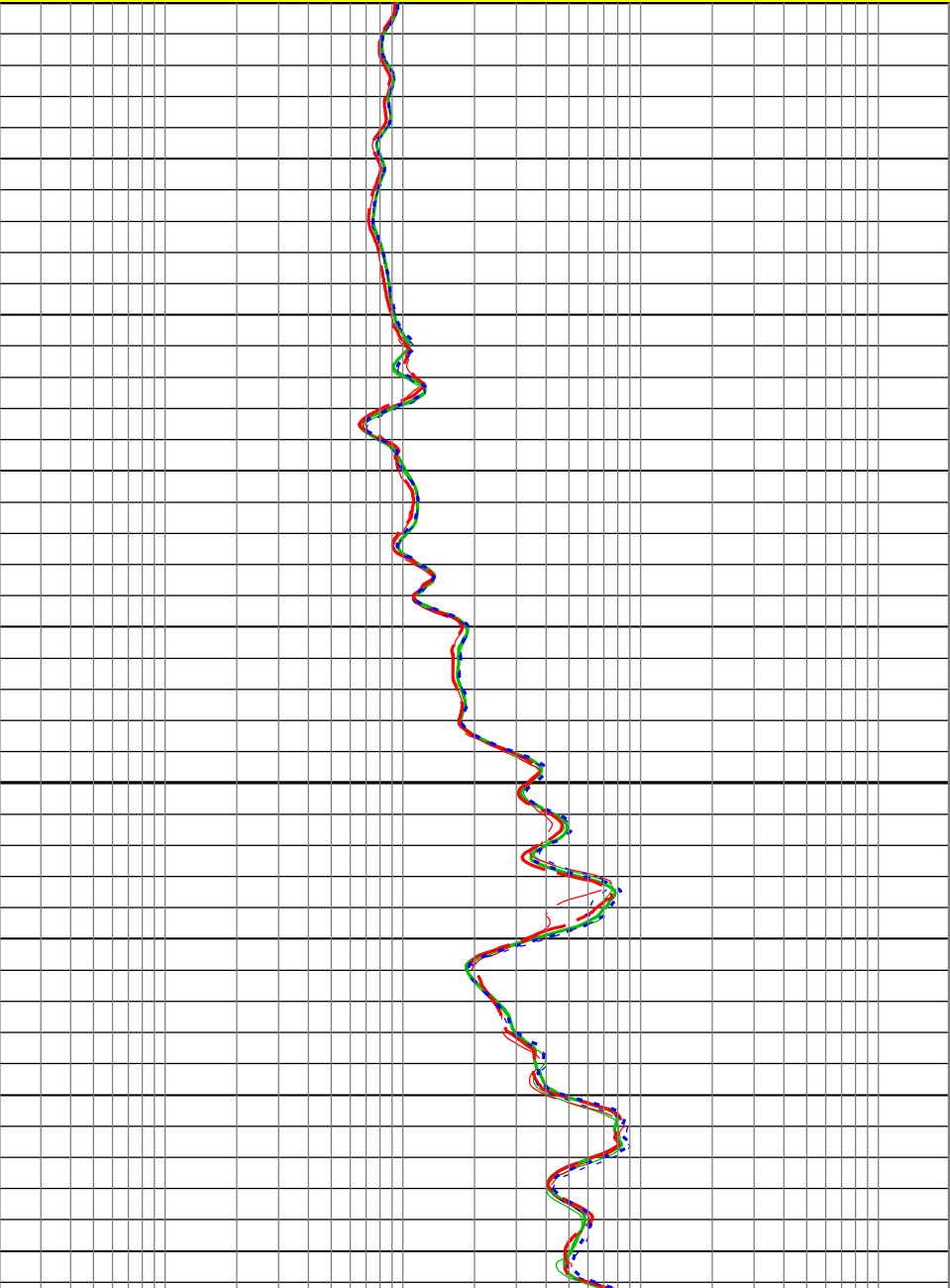
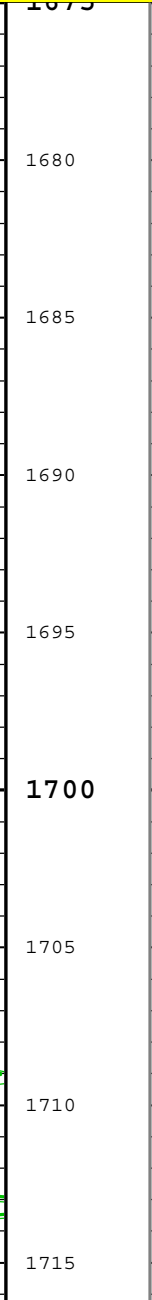
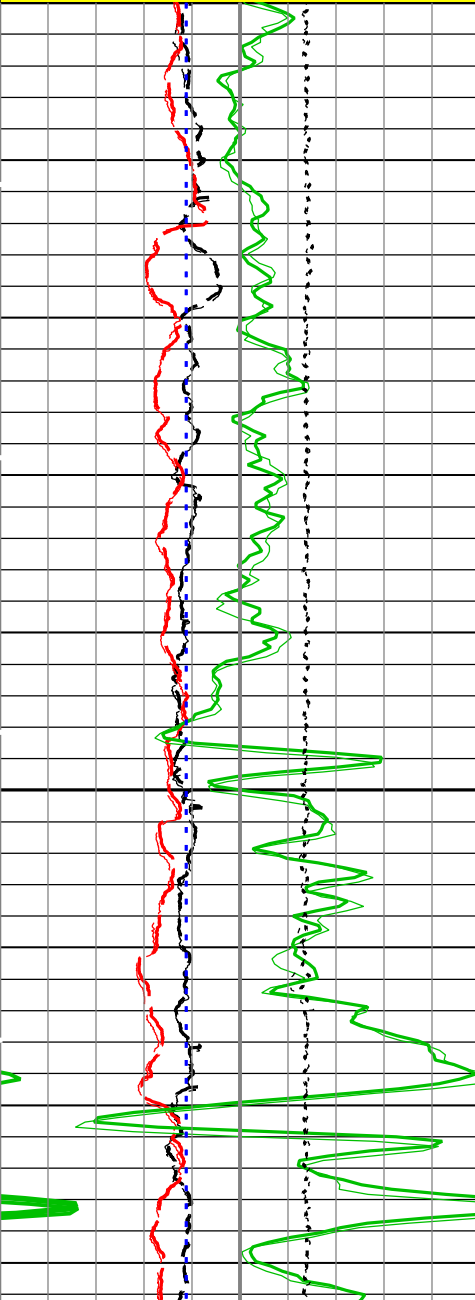
The diagram shows the Main To Repeat and Repeat To Main connections for the Caliper (HCAL) HDRS-H[1]. The Main To Repeat connection is labeled 'Main To Repeat' and the Repeat To Main connection is labeled 'Repeat To Main'. The Caliper (HCAL) HDRS-H[1] is shown with a dashed line indicating the connection point.

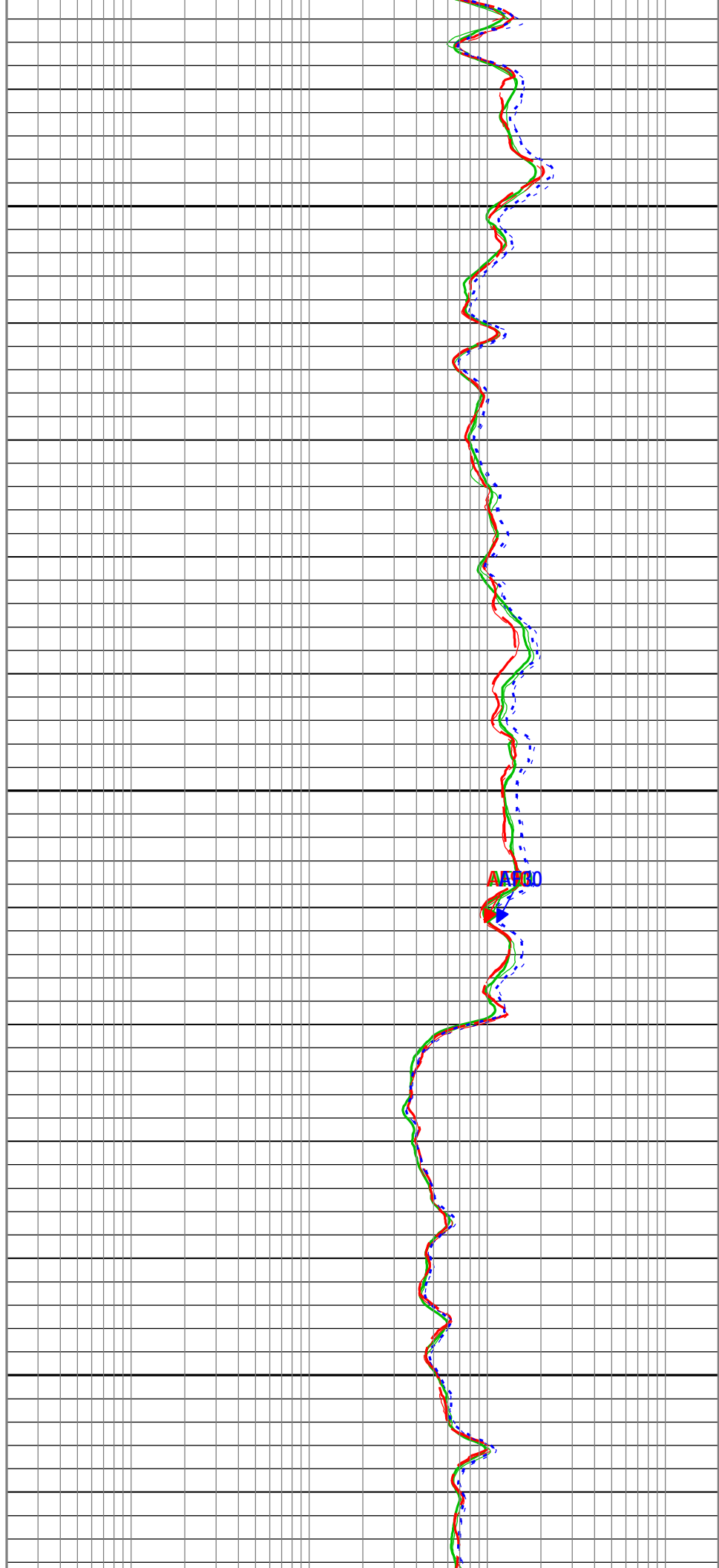
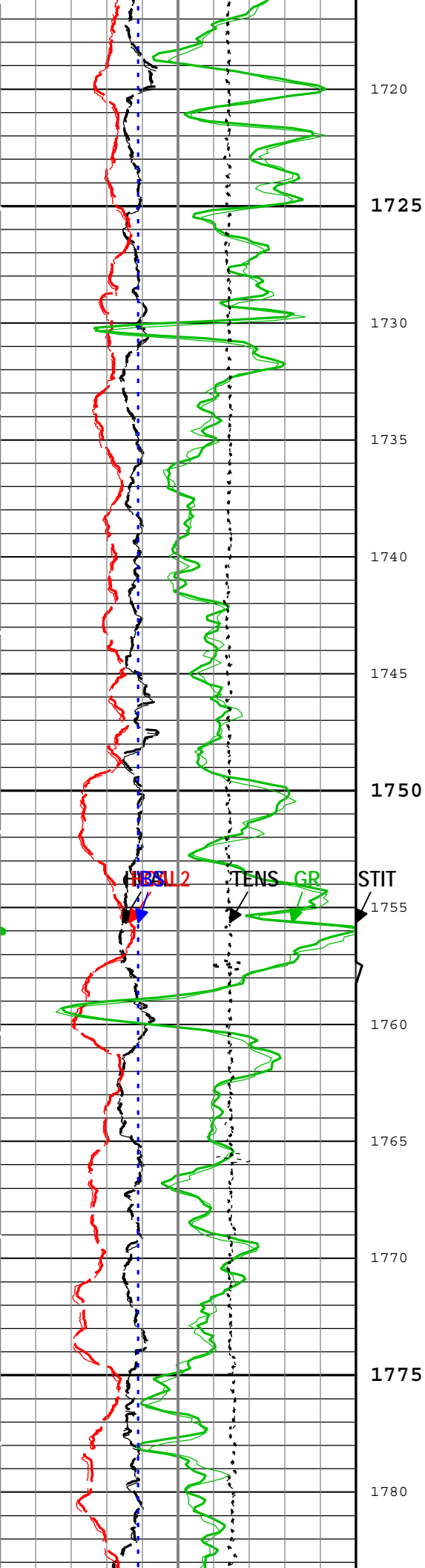
125	mm	375
Main To Repeat		
Repeat To Main		
Caliper (HCAL2) HDRS-H[2]		
125	mm	375
Main To Repeat		
Repeat To Main		
Calibrated Gamma Ray (GR) HGNS-H		
0	gAPI	300
Main To Repeat		
Repeat To Main		
Bit Size (BS)		
125	mm	375

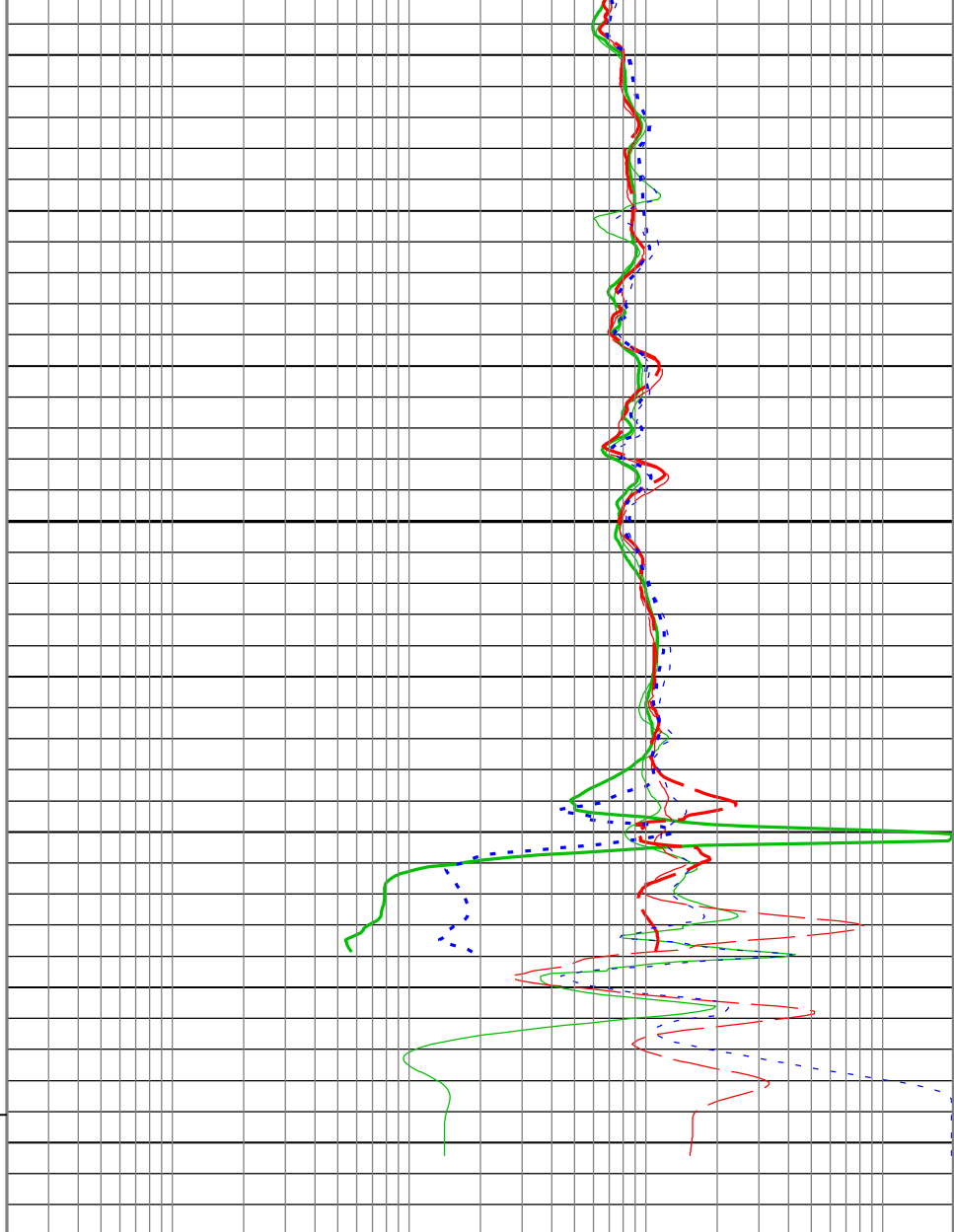
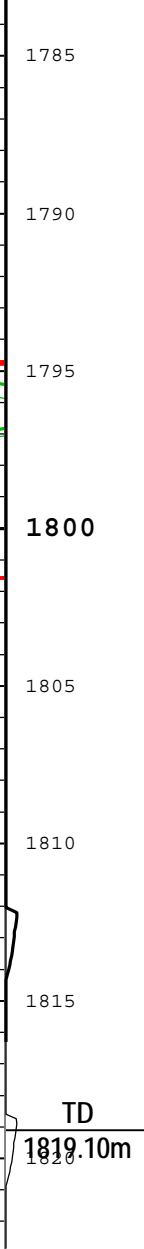
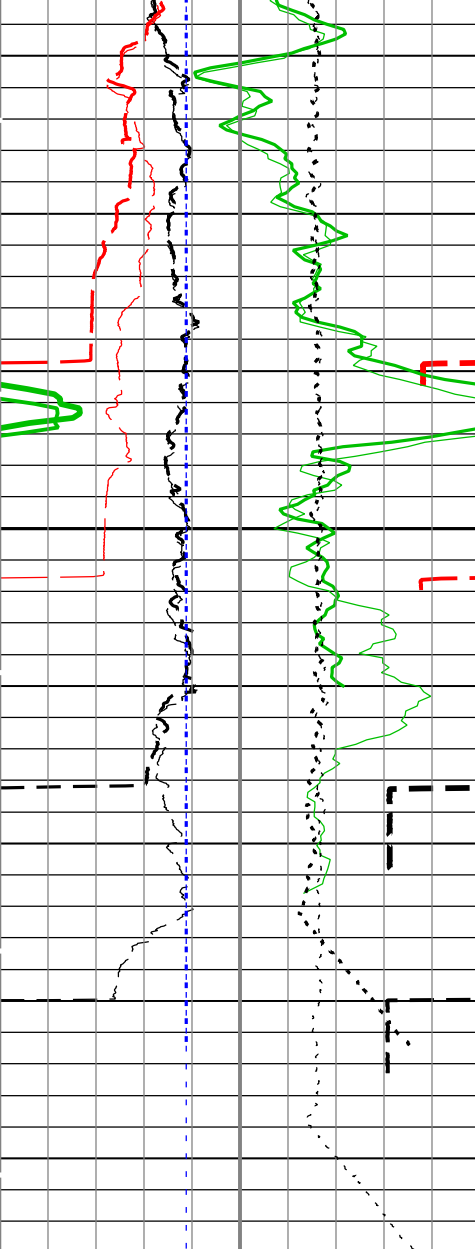
Main To Repeat
Repeat To Main
Stuck Tool Indicator, Total (STIT)
0 m 20

Main To Repeat		
Repeat To Main		
Array Induction Four Foot Resistivity A20 (AF20) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Four Foot Resistivity A90 (AF90) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Four Foot Resistivity A30 (AF30) AIT-M		
0.2	ohm.m	2000

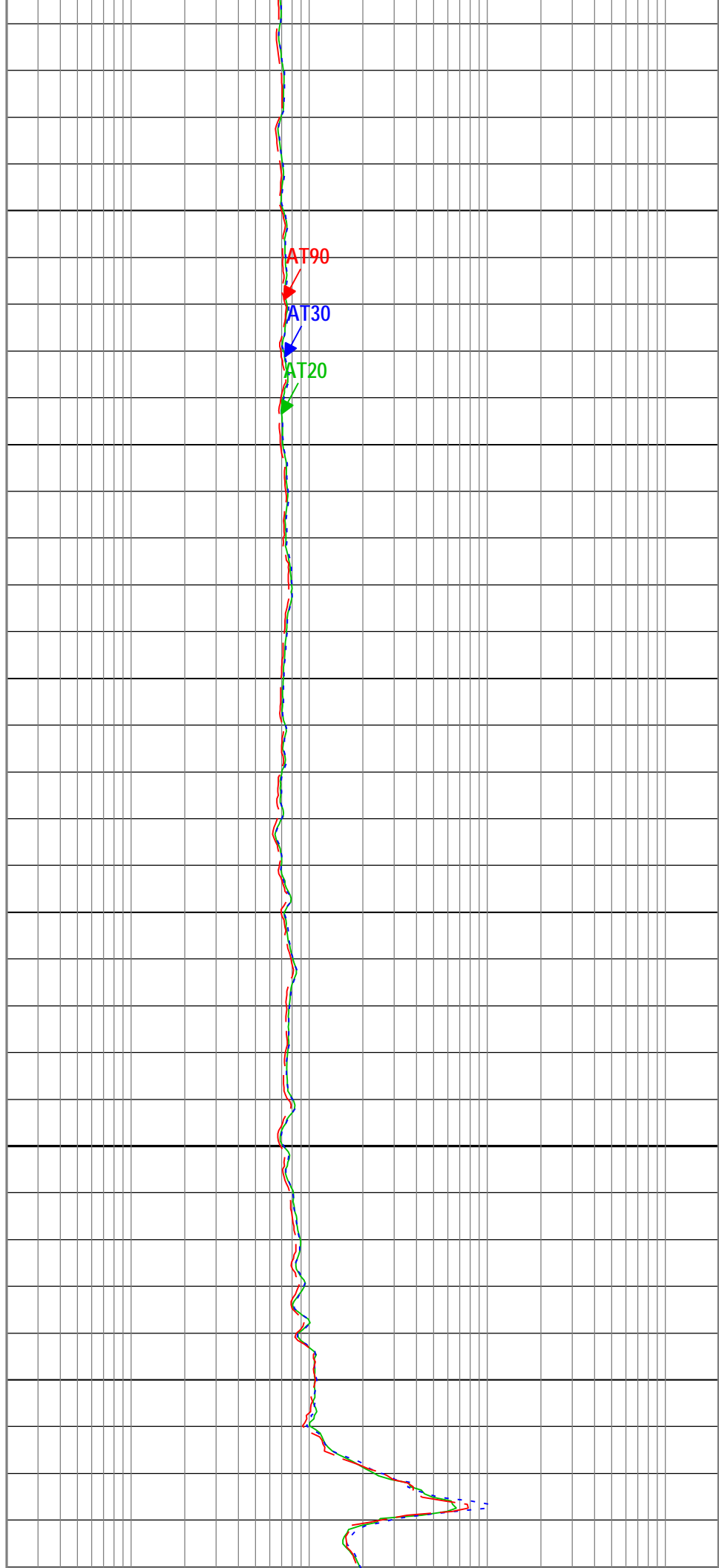
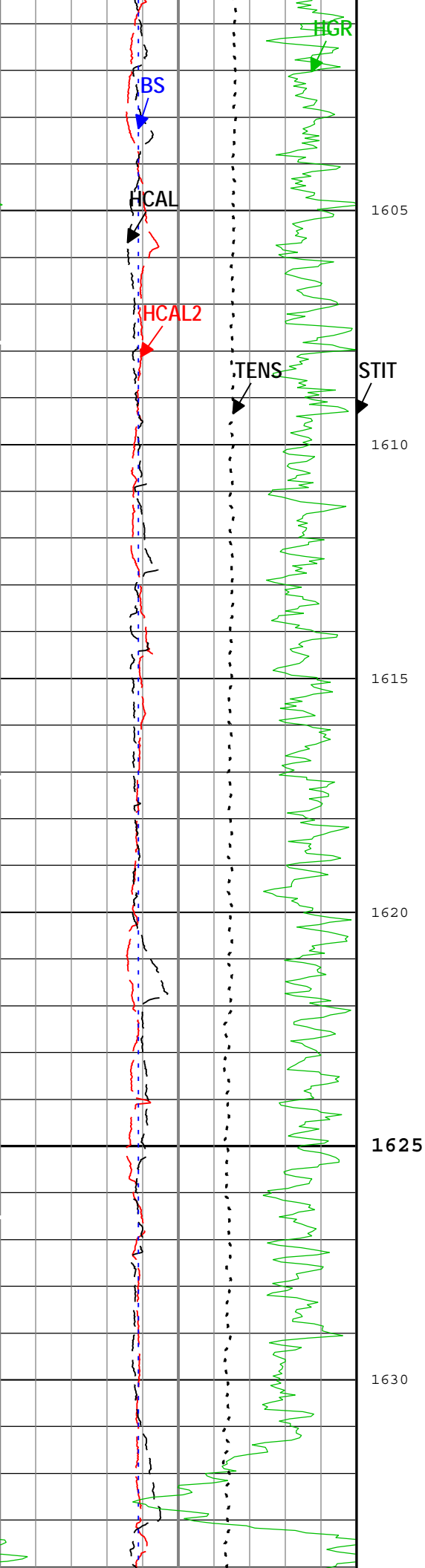
REPEAT ANALYSIS: ARRAY INDUCTION LOG

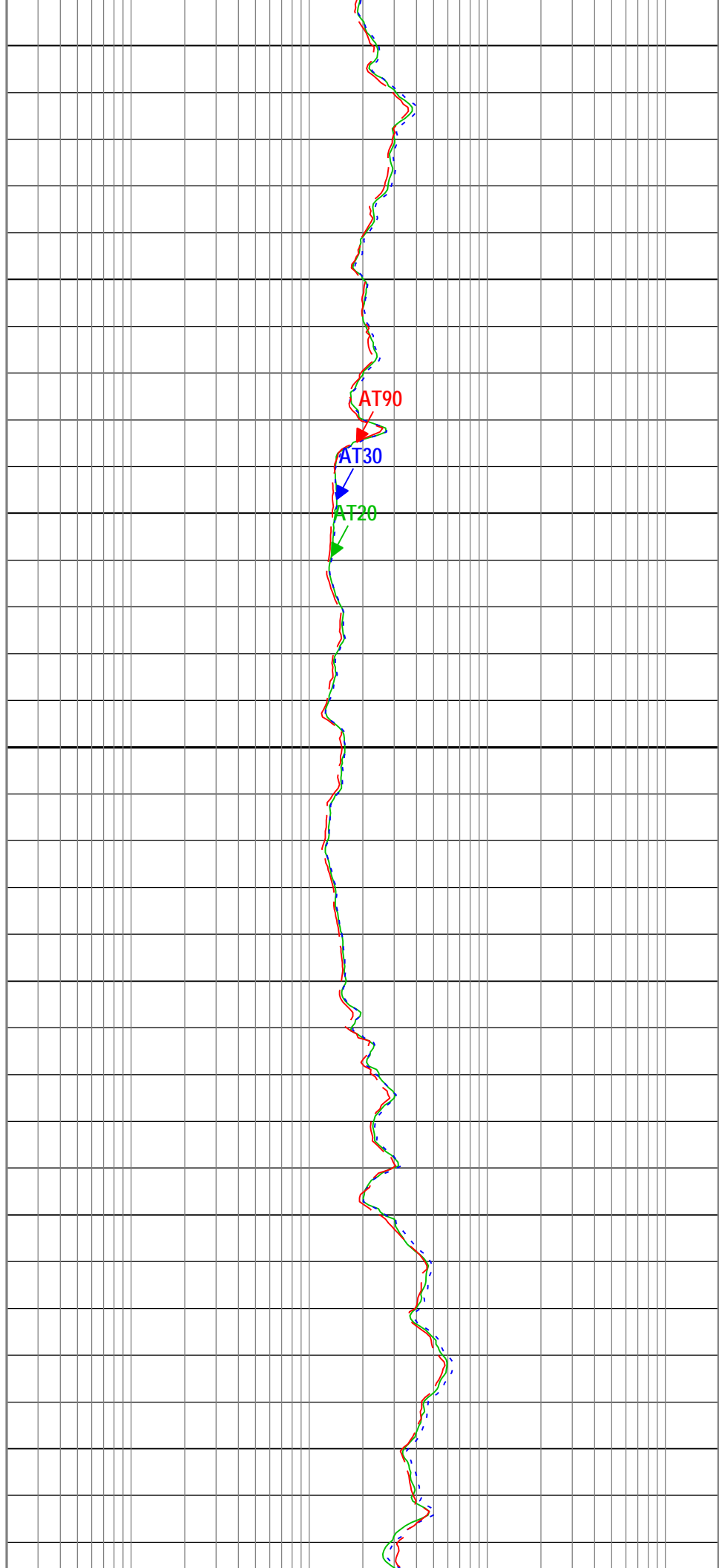
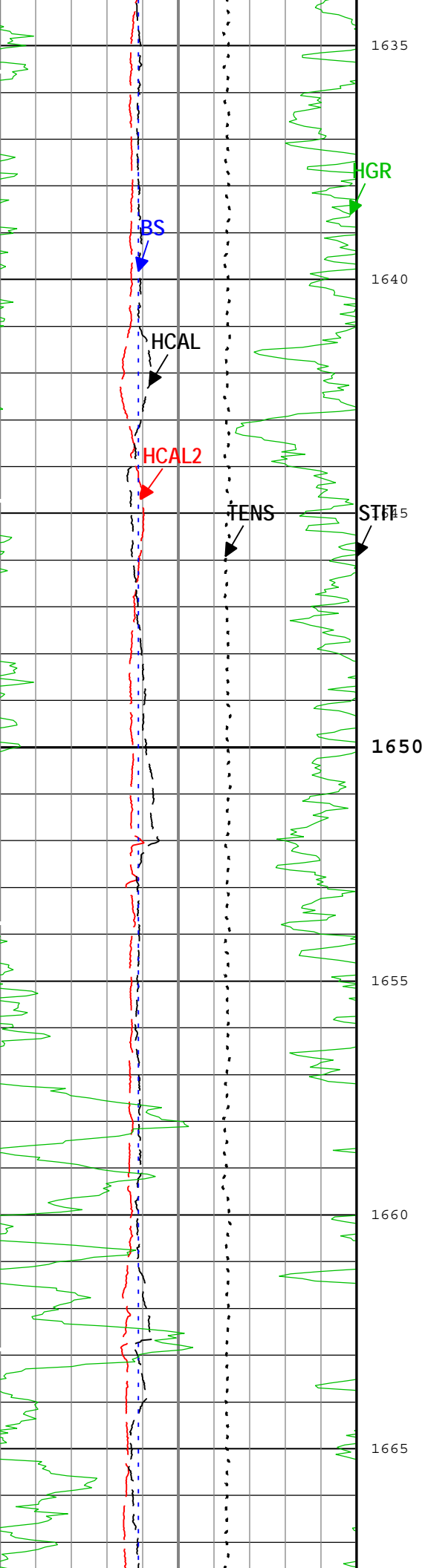


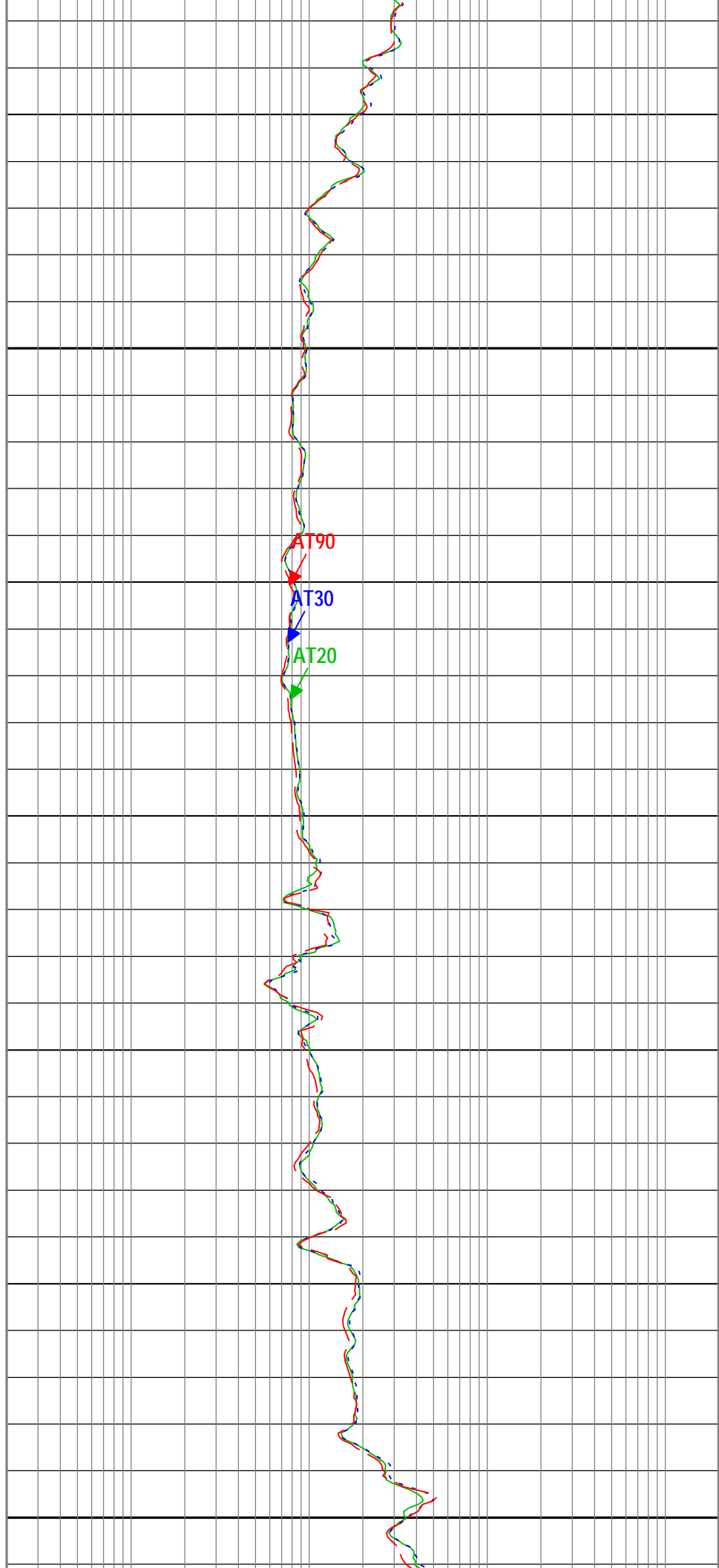
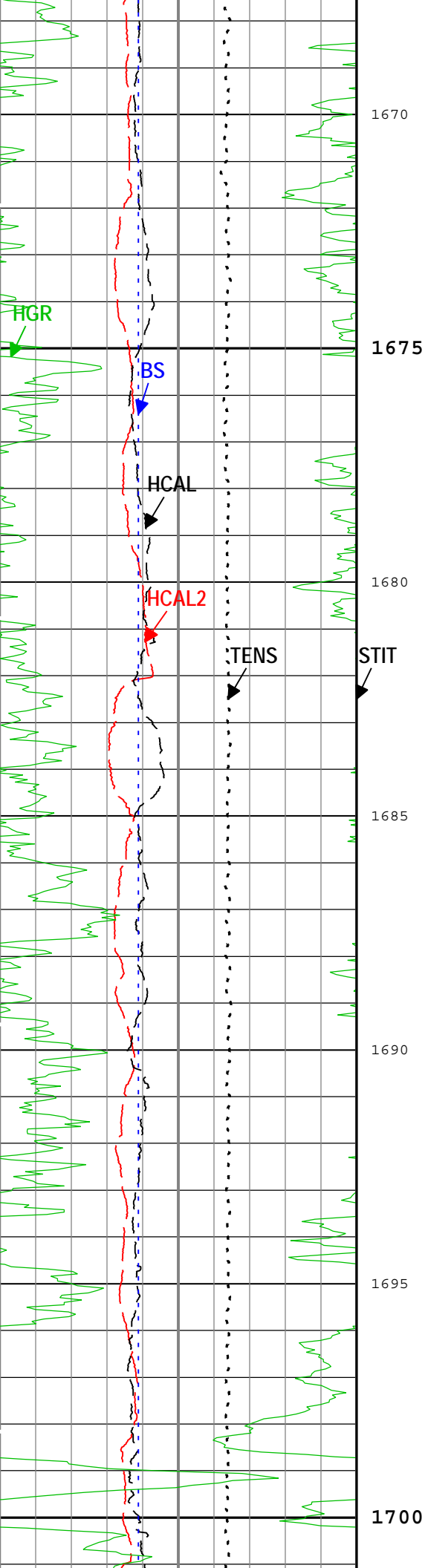


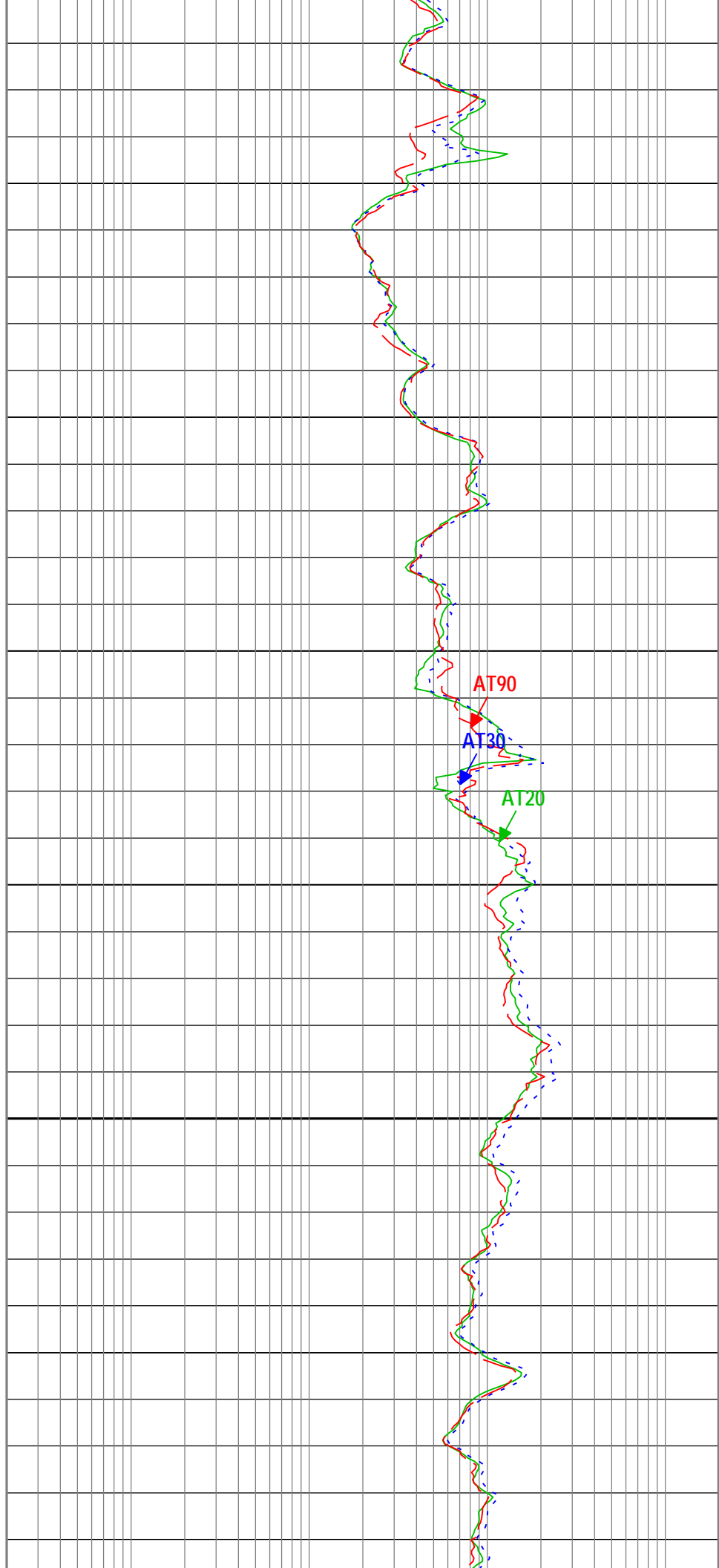
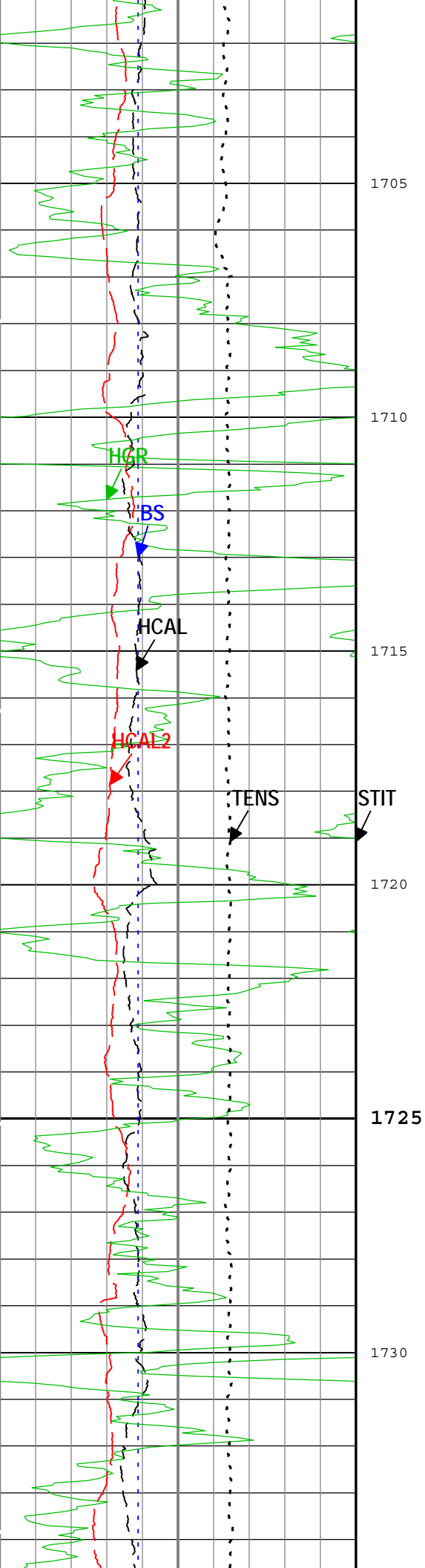


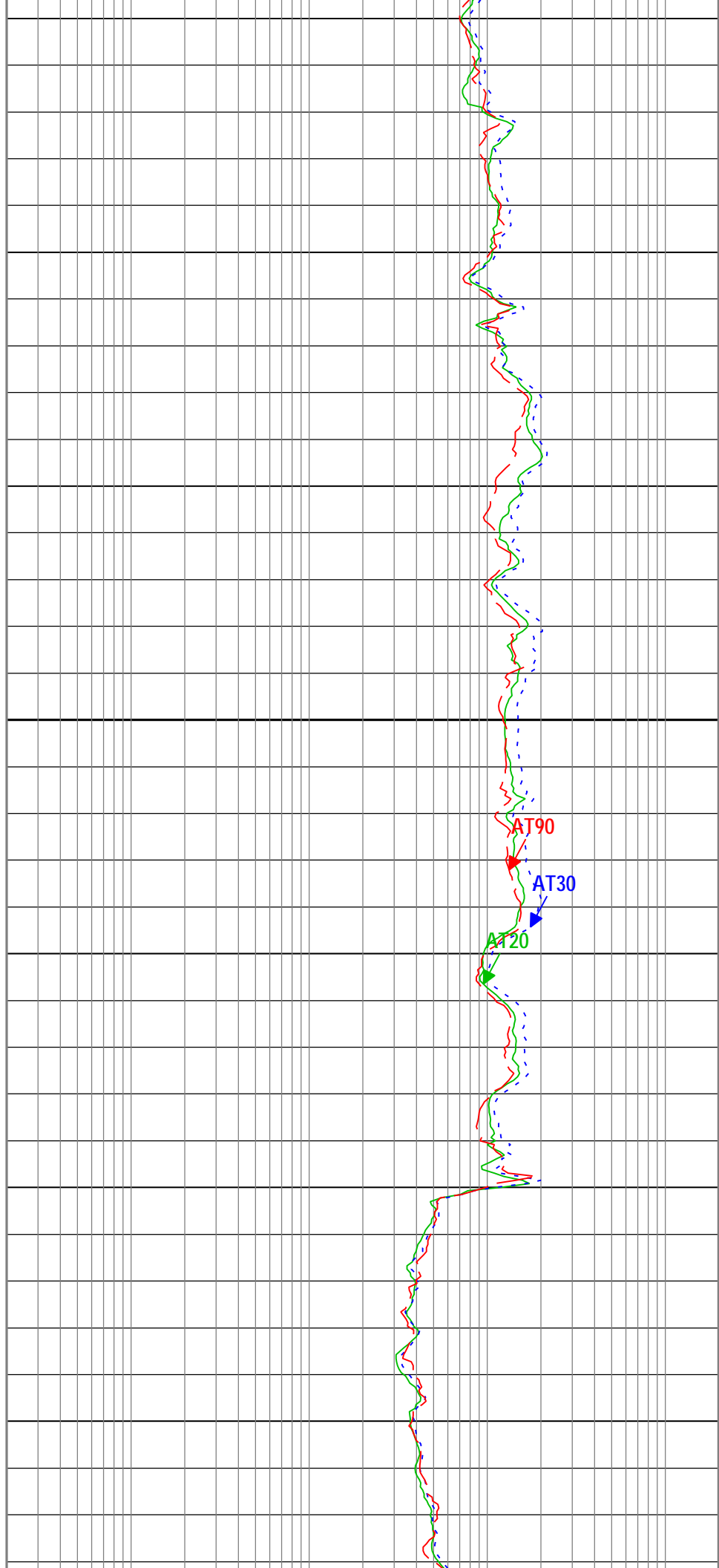
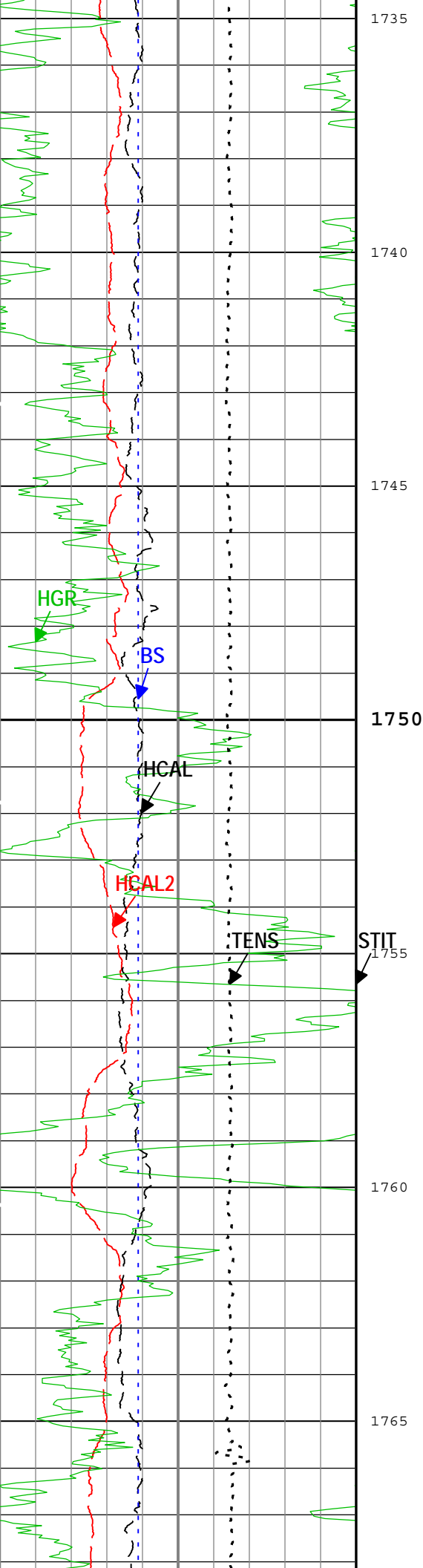
REPEAT ANALYSIS: ARRAY INDUCTION LOG					
Main To Repeat		Main To Repeat	Main To Repeat		
Repeat To Main			Repeat To Main		
Caliper (HCAL) HDRS-H[1]			Array Induction Four Foot Resistivity A20 (AF20) AIT-M		
125	mm		375	0.2	ohm.m
Main To Repeat		Stuck Tool Indicator, Total (STIT) 0 m 20	Main To Repeat		
Repeat To Main			Repeat To Main		
Caliper (HCAL2) HDRS-H[2]			Array Induction Four Foot Resistivity A90 (AF90) AIT-M		
125	mm		375	0.2	ohm.m
Main To Repeat			Main To Repeat		
Repeat To Main			Repeat To Main		
Calibrated Gamma Ray (GR) HGNS-H			Array Induction Four Foot Resistivity A30 (AF30) AIT-M		
0	gAPI		300	0.2	ohm.m
Main To Repeat					
Repeat To Main					

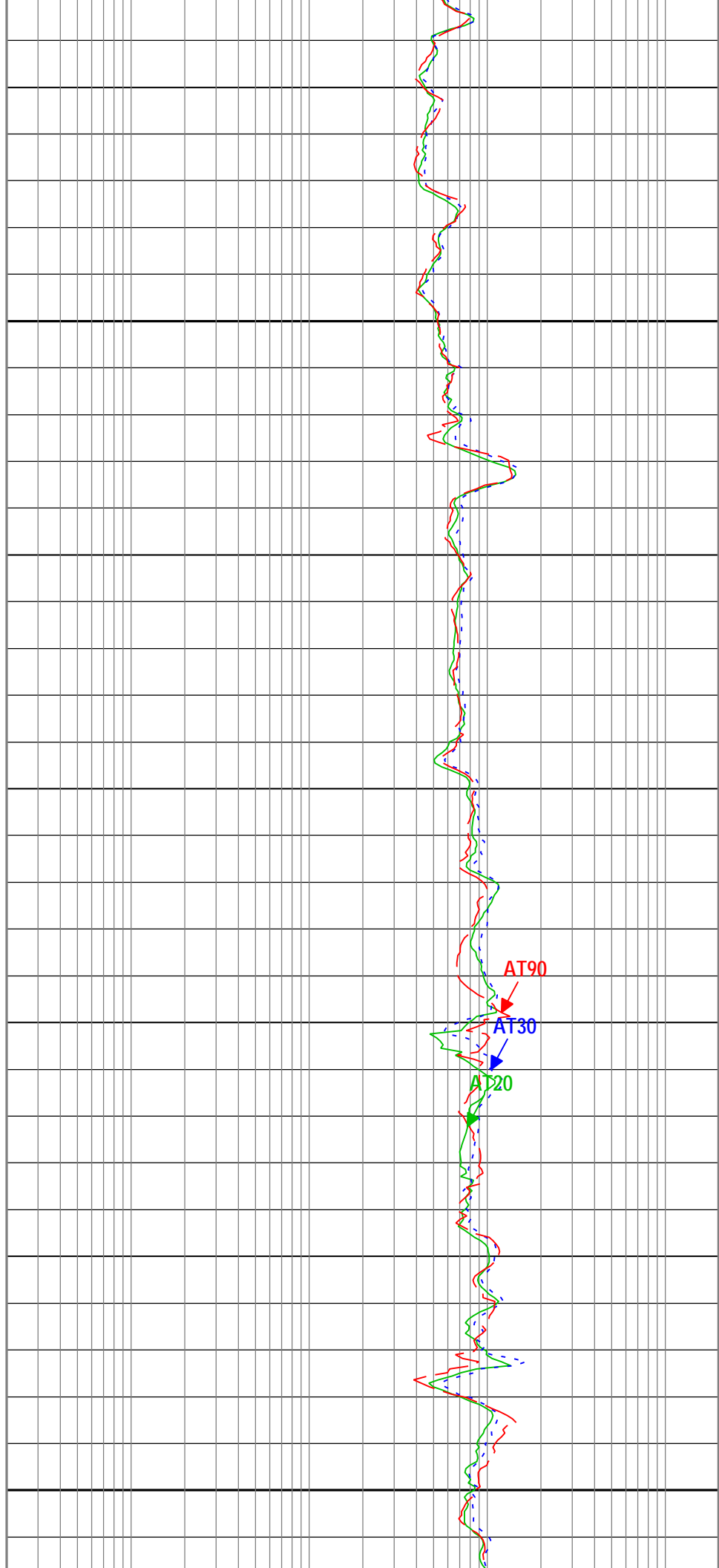
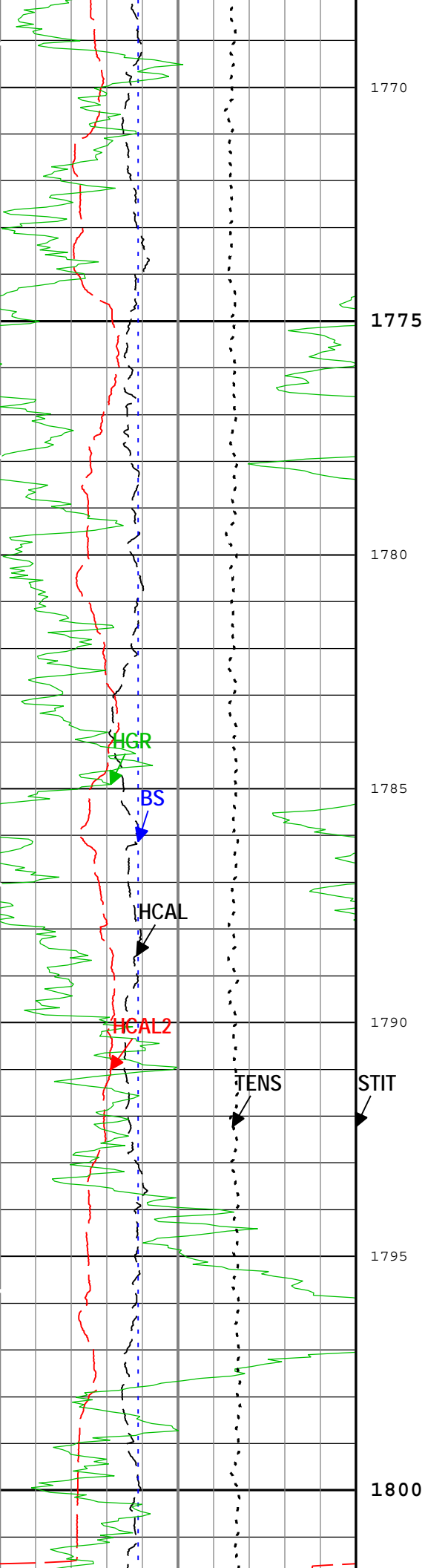


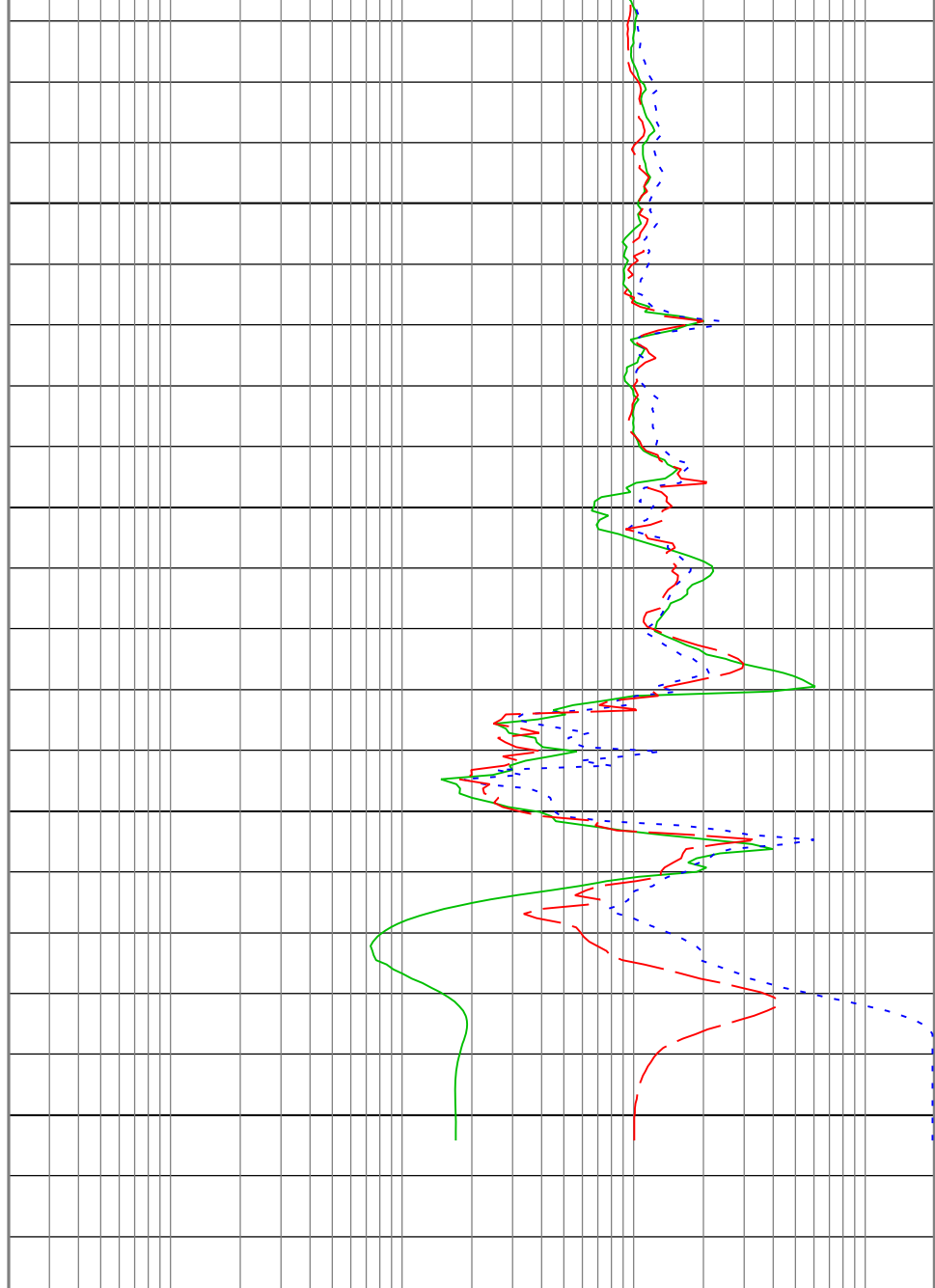
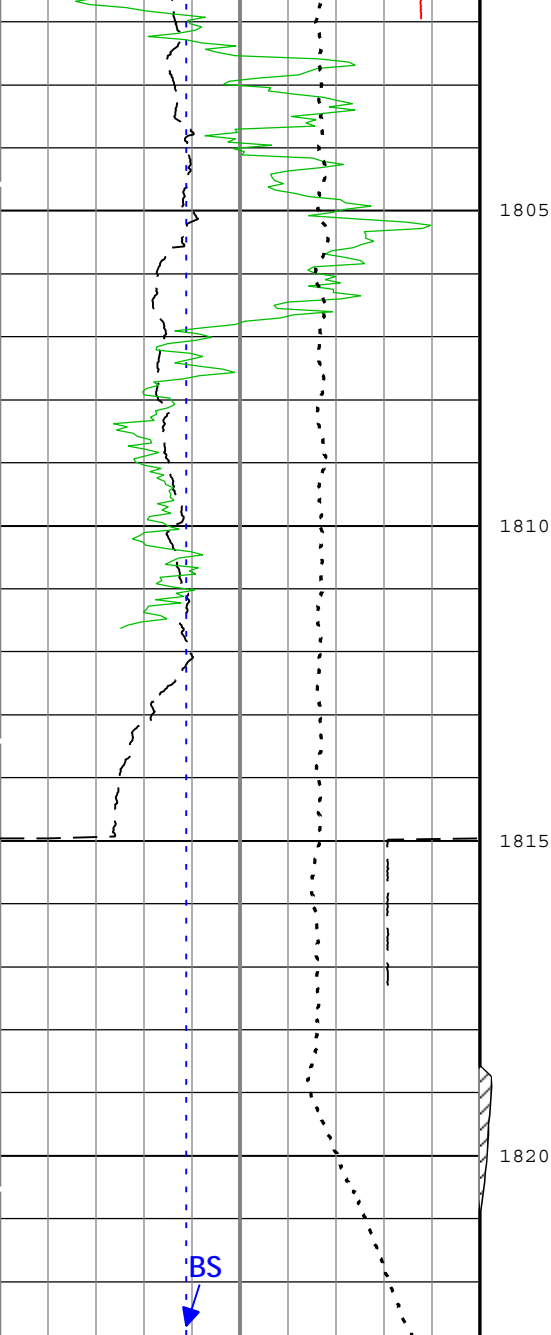












MAIN PASS: ARRAY INDUCTION LOG

HCAL2		
125	mm	375
HCAL		
125	mm	375
Bit Size (BS)		
125	mm	375
HGR		
0	gAPI	150
Cable Tension (TENS)		
25000	N	0

Array Induction Two Foot Resistivity A20 (AT20) AIT-M		
0.2	ohm.m	2000
Array Induction Two Foot Resistivity A30 (AT30) AIT-M		
0.2	ohm.m	2000
Array Induction Two Foot Resistivity A90 (AT90) AIT-M		
0.2	ohm.m	2000

TIME_1900 - Time Marked every 60.00 (s)

Description: MCFL processing LQC for Platform Express Format: Log (AIT-120) Index Scale: 1:120 Index Unit: m Index Type: Measured Depth
 Creation Date: 18-Jan-2014 22:05:55

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Mud Resistivity	

ACDE	Array Induction Casing Detection Enable	AIT-M	Yes	
ASTA	Array Induction Tool Standoff	AIT-M	40.64	mm
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	71.5	degC
BS	Bit Size	WLSESSION	222	mm
CALI_SHIFT.1	CALI Supplementary Offset	HDRS-H	13.5	mm
CALI_SHIFT.2	CALI Supplementary Offset	HDRS-H	4.4	mm
CBLO	Casing Bottom (Logger)	WLSESSION	603	m
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	REMS	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
TD	Total Measured Depth	Borehole	1819.1	m

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	548.64	m/h

Calibration Report

AIT-M (Array Induction Tool - M) Calibration - Run 1.1			
Primary Equipment :			
File code for AIT-MA Sonde Tool Element	AMIS		129
Auxiliary Equipment :			
AITM Rm/SP Bottom Nose	AMRM		129

AIT Sonde Calibration - Test Loop Gain							
Master (EEPROM):		10:28:12 31-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.014	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	1.089	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.008	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.684	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.009	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	-0.018	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.004	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	0.042	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.989	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	0.028	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.980	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.052	3.000	
Test Loop Gain - 6		Master	1.000	0.950	0.987	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.343	3.000	
Test Loop Gain - 7		Master	1.000	0.950	1.007	1.050	
Test Loop Phase - 7	deg	Master	0	-3.000	0.019	3.000	

AIT Sonde Calibration - Sonde Error Correction							
Master (EEPROM):		10:28:12 31-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-80.037	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	-45.287	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	162.947	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	140.227	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	107.663	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	-65.097	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	59.198	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	32.514	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	25.111	35.000	

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured): 06:27:32 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	mm	Before	203.2	152.4	199.0	254.0	
Large Ring	mm	Before	304.8	228.6	292.0	381.0	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 12:27:24 24-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	kg/m3	Master	2596	2586	2600	2606	
Rho Magnesium	kg/m3	Master	1686	1676	1690	1696	
Pe Aluminum		Master	2.570	2.470	2.579	2.670	
Pe Magnesium		Master	2.650	2.550	2.603	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 12:27:24 24-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.2068	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.6397	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.3839	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.5922	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.8683	1.5000	
LS Max Deviation	%	Master	0	-3.5000	2.7525	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM): 12:27:24 24-Dec-2013

Before (Measured):

06:28:18 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7364		
		Before	0.7364	0.6996	0.7419	0.7732	
		Before-Master	-----	-----	0.0055	-----	
BS Window Sum	1/s	Master	1		26467		
		Before	26467	25143	26655	27790	
		Before-Master	-----	-----	188	-----	
SS Window Ratio		Master	1.0000		0.4815		
		Before	0.4815	0.4574	0.4769	0.5056	
		Before-Master	-----	-----	-0.0046	-----	
SS Window Sum	1/s	Master	1		11894		
		Before	11894	11300	11857	12489	
		Before-Master	-----	-----	-37	-----	
LS Window Ratio		Master	1.0000		0.2994		
		Before	0.2994	0.2844	0.2975	0.3144	
		Before-Master	-----	-----	-0.0019	-----	
LS Window Sum	1/s	Master	1		1353		
		Before	1353	1285	1341	1421	
		Before-Master	-----	-----	-12	-----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 12:27:24 24-Dec-2013

Before (Measured):

06:28:18 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1339	2400	
		Before		1000	1329	2400	
		Before-Master	-----	-100	-10	100	
SS PM High Voltage	V	Master		1000	1361	2400	
		Before		1000	1398	2400	
		Before-Master	-----	-100	37	100	
LS PM High Voltage	V	Master		1000	1321	2400	
		Before		1000	1343	2400	
		Before-Master	-----	-100	22	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 12:27:24 24-Dec-2013

Before (Measured):

06:28:18 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.60	25.00	
		Before		5.00	10.44	25.00	
		Before-Master	-----	-1.00	-0.16	1.00	
SS Crvstal Resolution	%	Master		5.00	9.82	20.00	

		Before	-----	5.00	10.29 0.47	20.00 1.00	
LS Crystal Resolution	%	Master		5.00	8.22	20.00	
		Before		5.00	8.07	20.00	
		Before-Master	-----	-1.00	-0.15	1.00	

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured): 06:24:53 14-Jan-2014							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3839	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3808	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3810	4136	

HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run 1.1

Primary Equipment :							
	HILT Gamma-Ray and Neutron Sonde, 150 degC		HGNS-H		4792		
Auxiliary Equipment :							
	HGNS Accelerometer, 150 degC		HACCZ-H		5469		
	AmBe Neutron Logging Source		NSR-F		2516		
Calibration Parameter :							
	Water Temperature						
	Housing Size						
	JIG-BKG (Jig minus background reference)		165				

HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured): 17:31:34 14-Jan-2014							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	m/s2	Before	9.81	9.61	9.81	10.01	

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM): 00:00:00 15-Sep-2006							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			QAT_160		
Accelerometer Reference Temperature	degC	Master		-1.0	25.0	50.0	
Accelerometer Coefficients - 0		Master	-----	-----	7241.000	-----	
Accelerometer Coefficients - 1		Master	-----	-----	5.473	-----	
Accelerometer Coefficients - 2		Master	-----	-----	-0.012	-----	
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 4		Master	-----	-----	2.735	-----	
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 7		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 8		Master	-----	-----	300.400	-----	
Accelerometer Coefficients - 9		Master	-----	-----	0.984	-----	

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 09:05:16 31-Dec-2013		Before (Measured): 06:25:14 14-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	27.0	40.0	
		Before	0	5.0	27.3	40.0	
		After	-----	-----	-----	-----	
		Before-Master	-----	-4.1	0.3	4.1	
		After-Before	-----	-----	-----	-----	
Far Zero Measurement	1/s	Master	0	5.0	26.1	40.0	
		Before	0	5.0	28.5	40.0	
		After	-----	-----	-----	-----	
		Before-Master	-----	-3.9	2.4	3.9	
		After-Before	-----	-----	-----	-----	
Near Plus Measurement	1/s	Master	6031.0	4700.0	5851.0	6900.0	
		Before	-----	-----	-----	-----	
		After	-----	-----	-----	-----	
		Before-Master	-----	-----	-----	-----	
		After-Before	-----	-----	-----	-----	

Far Plus Measurement	1/s	Master Before After Before-Master After-Before	2793.0 ----- ----- ----- -----	1900.0 ----- ----- ----- -----	2454.0 ----- ----- ----- -----	2900.0 ----- ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Near Corrected Plus Measurement	1/s	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	4700.0 ----- ----- ----- -----	5865.0 ----- ----- ----- -----	6900.0 ----- ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Far Corrected Plus Measurement	1/s	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	1900.0 ----- ----- ----- -----	2454.0 ----- ----- ----- -----	2900.0 ----- ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		06:27:38 14-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
RGR Zero Measurement	gAPI	Before After After-Before	30.0 ----- -----	0 ----- -----	33.9 ----- -----	120.0 ----- -----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
RGR Plus Measurement	gAPI	Before After After-Before	185.4 ----- -----	157.1 ----- -----	159.9 NOT DONE -----	206.3 ----- -----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
GR Calibration Gain		Before After After-Before	0.89 ----- -----	0.80 ----- -----	1.03 ----- -----	1.05 ----- -----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

DSLT-H (Digitizing Sonic Logging Tool - H) Calibration - Run 1.1

Primary Equipment :							
Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL		SLS-E		2047			

CBL Normalization - CBL Accumulations

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Upper Far Amplitude - 0		Master	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Upper Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Lower Far Amplitude - 0		Master	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Lower Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

CBL Normalization - CBL/VDL Coefficients

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
CBL Correction Factor for UT		Master	3.500	2.700	NOT DONE	4.300	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
CBL Correction Factor for LT		Master	2.500	1.700	NOT DONE	4.300	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
VDL Ratio between UT and LT for CBLB Mode		Master	1.000		NOT DONE		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

CBL Free Pipe Adjustment - Free Pipe Measurement

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
CBL Amplitude - 0	mV	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
CBL Reference Amplitude (CBRA) - 0	mV	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Measurement Depth - 0	m	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

CBL Free Pipe Adjustment - CBL Amplitude Coefficient

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
CBL Adjustment Factor		Before	1.000	0.200	NOT DONE	5.000	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Depth of Before Calibration	ft	Before			NOT DONE		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

HDRS-H[2] (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1.1

Primary Equipment :							
HILT High-Resolution Control Cartridge, 150 degC		HRCC-H					
HIL T Resistivity Gamma-Ray Density Device, 150 degC		HRGD-H		3914			

Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28710
HRDD Short Spacing Detector	Short Spacing	27760
Cesium 137 Gamma-Ray Logging Source	GSR-J	5310
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	3875

Calibration Parameter :

Small Ring Size (Caliper Calibration Small Ring)	203.2
Large Ring Size (Caliper Calibration Large Ring)	304.8

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured): 06:29:21 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	mm	Before	203.2	152.4	204.6	254.0	
Large Ring	mm	Before	304.8	228.6	313.3	381.0	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 10:28:40 24-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	kg/m3	Master	2596	2586	2598	2606	
Rho Magnesium	kg/m3	Master	1686	1676	1690	1696	
Pe Aluminum		Master	2.570	2.470	2.568	2.670	
Pe Magnesium		Master	2.650	2.550	2.615	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 10:28:40 24-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.2310	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.8128	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.6214	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.9703	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.3753	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.3653	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM): 10:28:40 24-Dec-2013

Before (Measured): 14:51:08 09-Jan-2014 Expired by 4 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7406		
		Before	0.7406	0.7036	0.7452	0.7776	
		Before-Master	-----	-----	0.0046	-----	
BS Window Sum	1/s	Master	1		23979		
		Before	23979	22780	24136	25178	
		Before-Master	-----	-----	157	-----	
SS Window Ratio		Master	1.0000		0.4809		
		Before	0.4809	0.4569	0.4768	0.5050	
		Before-Master	-----	-----	-0.0041	-----	
SS Window Sum	1/s	Master	1		10589		
		Before	10589	10060	10583	11119	
		Before-Master	-----	-----	-6	-----	
LS Window Ratio		Master	1.0000		0.3042		
		Before	0.3042	0.2890	0.2988	0.3194	
		Before-Master	-----	-----	-0.0054	-----	
LS Window Sum	1/s	Master	1		1192		
		Before	1192	1132	1180	1251	
		Before-Master	-----	-----	-12	-----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 10:28:40 24-Dec-2013

Before (Measured): 14:51:08 09-Jan-2014 Expired by 4 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1448	2400	
		Before		1000	1447	2400	
		Before-Master	-----	-100	-1	100	
SS PM High Voltage	V	Master		1000	1477	2400	

		Before-Master	-----	1000 -100	1506 29	2400 100	
LS PM High Voltage	V	Master		1000	1289	2400	
		Before		1000	1286	2400	
		Before-Master	-----	-100	-3	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM):		10:28:40 24-Dec-2013		Before (Measured):		14:51:08 09-Jan-2014 Expired by 4 days	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.46	25.00	
		Before		5.00	10.41	25.00	
		Before-Master	-----	-1.00	-0.05	1.00	
SS Crystal Resolution	%	Master		5.00	10.04	20.00	
		Before		5.00	10.64	20.00	
		Before-Master	-----	-1.00	0.60	1.00	
LS Crystal Resolution	%	Master		5.00	8.04	20.00	
		Before		5.00	8.03	20.00	
		Before-Master	-----	-1.00	-0.01	1.00	

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured):		06:25:34 14-Jan-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3906	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3827	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3837	4136	

SGT-N (Scintillation Gamma-Ray Tool) Calibration - Run 1.1

Primary Equipment :			
Scintillation Gamma Cartridge	SGC-TB	10447	
Calibration Parameter :			
Plus Reference (Jig minus background reference)	165		

SGT-N Gamma-Ray Calibration - Gamma Ray Coefficients

Before (Measured):		06:28:02 14-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Gain		Before			1.169		
		After	-----	-----	-----	-----	
		After-Before	-----	-----	-----	-----	

SGT-N Gamma-Ray Calibration - Gamma Ray Accumulations

Before (Measured):		06:28:02 14-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before		0	44.958	120.000	
		After	-----	-----	-----	-----	
		After-Before	-----	-----	-----	-----	
RGR Plus Measurement	gAPI	Before	141.161	128.328	141.161	153.994	
		After			NOT DONE		
		After-Before	-----	-----	-----	-----	

SGT-N Gamma-Ray Plateau Check - Gamma Ray Plateau Check

Before (Measured):		14:58:24 09-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Plus Plateau Measurement	gAPI	Before			173.529		
		After	-----	-----	-----	-----	
		After-Before	-----	-----	-----	-----	
RGR Minus Plateau Measurement	gAPI	Before			170.096		
		After	-----	-----	-----	-----	
		After-Before	-----	-----	-----	-----	

LEH-QT (Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor) Calibration - Run 1.1

Primary Equipment :							
Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor		LEH-QT		2850			

HTEN Master Calibration - HTEN Master Calibration

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
HTEN Shop Gain		Master	1.000	0.800	NOT DONE	4.500	
HTEN Shop Offset	lbf	Master	0	-4448.222	NOT DONE	4448.222	
HTEN Before Calibration - HTEN Before Calibration							
Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RHTE Zero Measurement - 0	lbf	Before	-----	-----	-----	-----	
RHTE Plus Measurement - 0	lbf	Before	-----	-----	-----	-----	
HTEN Gain - 0		Before	-----	-----	-----	-----	
HTEN Offset - 0	lbf	Before	-----	-----	-----	-----	

Company:	CONOCOPHILLIPS CANADA RESOURCES CORP	Schlumberger
Well:	COPRC DODO CANYON E76	
Field:	DODO CANYON	
Province:	NORTHWEST TERRITORIES	
PLATFORM EXPRESS ***MD***		
ARRAY INDUCTION LOG		