

Company: Lamont Doherty

Well: Expedition 323 Site U1343E

Field: Bering Sea

Rig: JOIDES Resolution Country: USA

Phasor Induction (DIT) Natural Gamma Spectroscopy

LOCATION					
Latitude: N 57° 33.38'	Elev.:	K.B.	11.00 m		
Longitude: W 175° 48.99'		G.L.	-1967.50 m		
		D.F.	11.00 m		
Permanent Datum:	Mean Sea Level	Elev.:	0.00 m		
Log Measured From:	Drill Floor		11.00 m	above Perm. Datum	
Drilling Measured From:	Drill Floor				
Ocean: Pacific	Max. Well Deviation	Longitude	N 57° 33.38'	Latitude	W 175° 48.99'
	0 deg				

Rig: JOIDES Resolution
 Field: Bering Sea
 Location: Latitude: N 57° 33.38'
 Well: Expedition 323 Site U1343E
 Company: Lamont Doherty

Logging Date	12-Aug-2009	
Run Number	1	
Depth Driller	2711.8 m	
Schlumberger Depth	2711.5 m	
Bottom Log Interval	2707.8 m	
Top Log Interval	2066 m	
Casing Driller Size @ Depth	4.500 in @ 2067 m	
Casing Schlumberger	2066 m	
Bit Size	11.438 in	
Type Fluid In Hole	Seawater Gel	
Density	1.258 g/cm3	
Fluid Loss		
PH		
Source Of Sample	N/A	
RM @ Measured Temperature	@	@
RMF @ Measured Temperature	@	@
RMC @ Measured Temperature	@	@
Source RMF	RMC	
RM @ MRT	RMF @ MRT	
	N/A @ 15	N/A @ 15
Maximum Recorded Temperatures	15 degC	
Circulation Stopped	Time	Time
Logger On Bottom	12-Aug-2009	16:50
Unit Number	625003	Houston
Recorded By	C. Furman	
Witnessed By	T. Liu, G. Queiro	

	Run 1	Run 2
Logging Date		
Run Number		
Depth Driller		
Schlumberger Depth		
Bottom Log Interval		
Top Log Interval		
Casing Driller Size @ Depth		
Casing Schlumberger		
Bit Size		
Type Fluid In Hole		
Density		
Fluid Loss		
PH		
Source Of Sample		
RM @ Measured Temperature	@	@
RMF @ Measured Temperature	@	@
RMC @ Measured Temperature	@	@
Source RMF	RMC	
RM @ MRT	RMF @ MRT	
	N/A @ 15	N/A @ 15
Maximum Recorded Temperatures	15 degC	
Circulation Stopped	Time	Time
Logger On Bottom	12-Aug-2009	16:50
Unit Number	625003	Houston
Recorded By	C. Furman	
Witnessed By	T. Liu, G. Queiro	

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OTHER SERVICES1

- OS1: FMS
- OS2: DSI
- OS3: HNGS
- OS4: APS/HLDS




REMARKS: RUN NUMBER 1

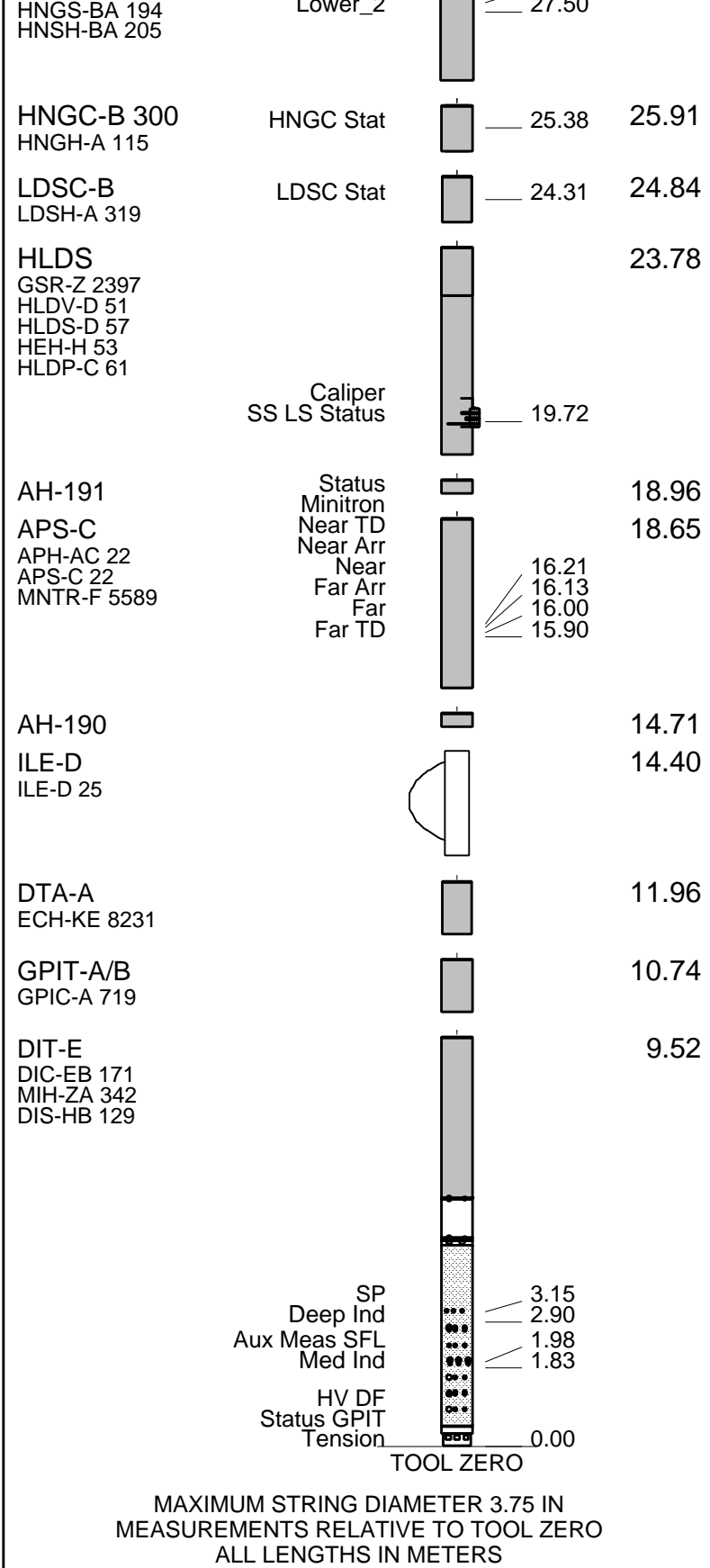
Logs run in fifth hole ("E" hole) of drilling site U1343 to aid in correlation of core data collected in surface labs.
 Average heave during the run was only 0.2m; Active Heave Compensator used.
 TD was found to be 2711.5mBRF with the pipe (bit) at 2066mBRF. Sea Bed given as 1967.5mBRF.
 Hole Size input taken from HLDS Caliper.
 Tools run slick in order to fit through drill pipe, as is standard practice on this project.
 HLDS Caliper closed at approximately 2091.5m to facility entry into drill pipe.
 APS minitron deactivated at approximately 2095m.
 Tools run with "Go-Devil" LFV Actuator attached to the bottom of the string for safe passage through the LFV.

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION: 17C0-154			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	
SFT-281 2	
SFT-178 2	
GSR-U 616008	
WITM (DTS)-A	

DOWNHOLE EQUIPMENT			
LEH-QT			30.21
LEH-QT 301			
DTC-H	CTEM		29.04
ECH-KC 2304	TelStatus		29.32
	ToolStatu		28.41
HNGS-BA 194	Upper_1		27.71
			27.70



Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OD	ID		MD	OD	

Kelly Bushing Elevation

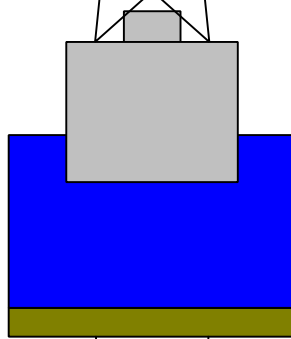
Derrick Floor Elevation

Mean Sea Level

11.0

11.0

0.0



0.0

4.500

Drill Floor



1967.5

11.438

Sea Bed

2067.0

4.500

Bit Depth

2711.8

11.438

Total Depth - Driller

Schlumberger

Main Pass
TD to Sea Bed

MAXIS Field Log

Input DLIS Files

DEFAULT	PI_APS_LDL_NGS_064LUP	FN:12	PRODUCER	12-Aug-2009 16:51	2711.2 M	1954.2 M
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Output DLIS Files

DEFAULT	PI_APS_LDL_NGS_082PUP	FN:37	PRODUCER	13-Aug-2009 13:26	2712.0 M	1955.2 M
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OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

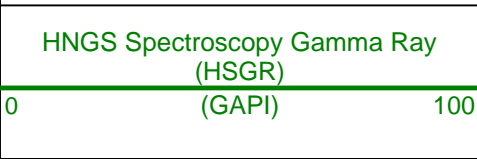
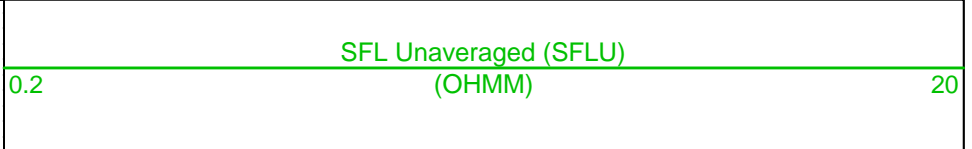
Time Mark Every 60 S



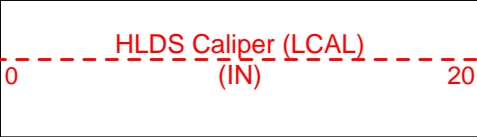
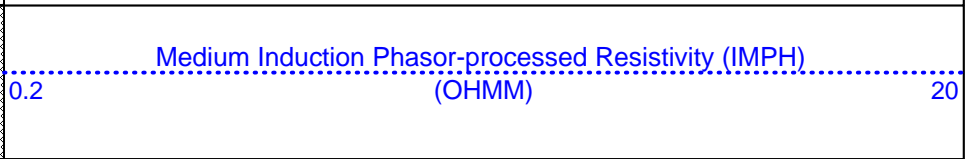
SFL_QUAL
From D3T
to SFQF



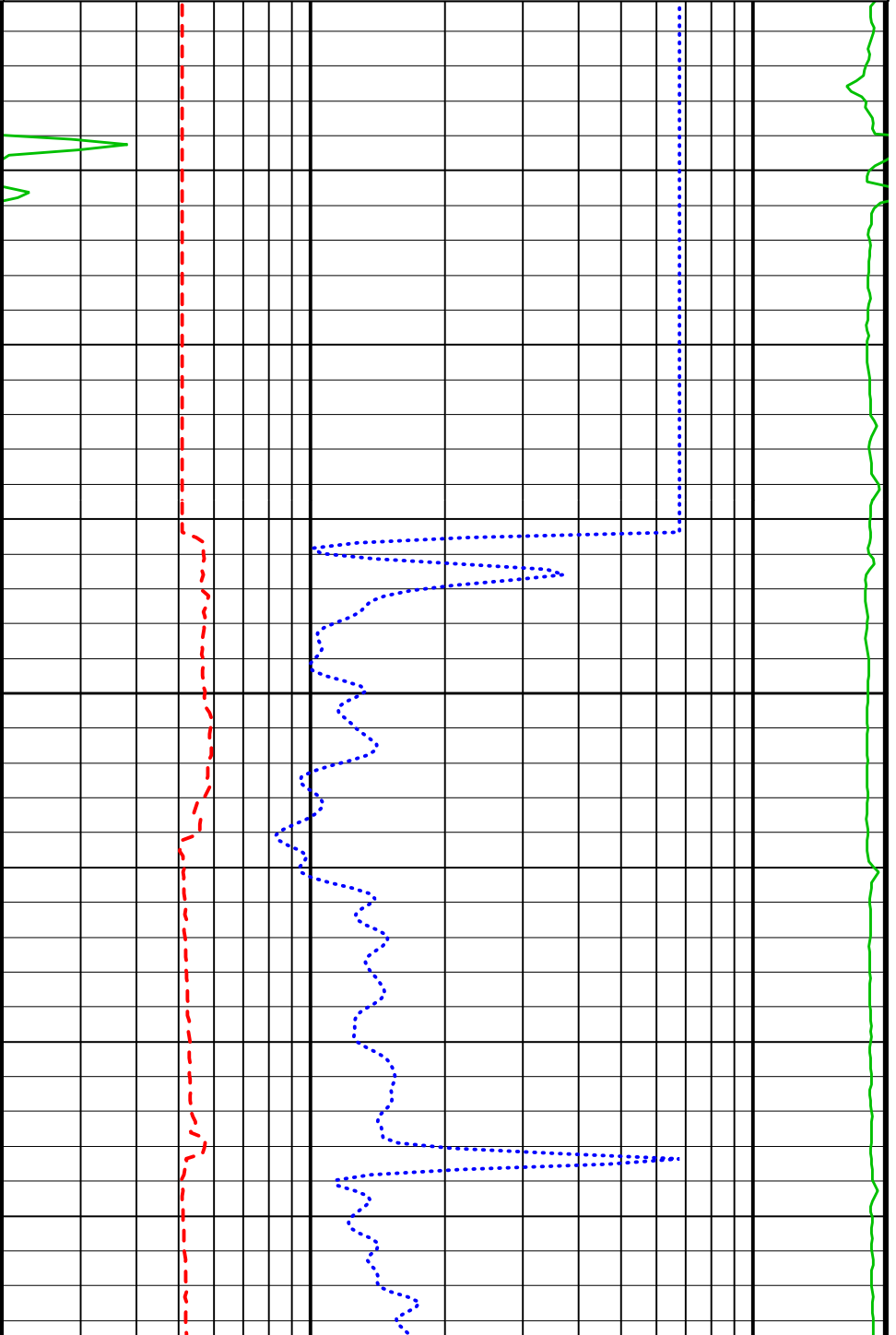
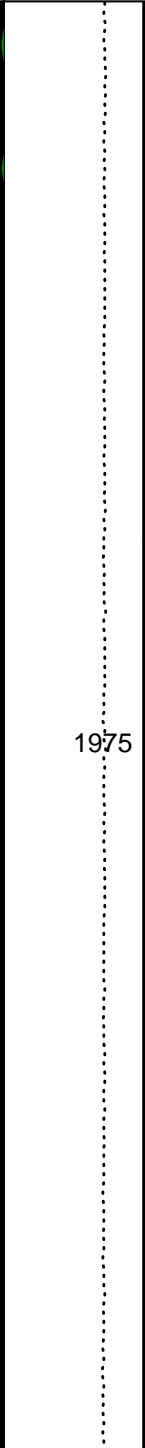
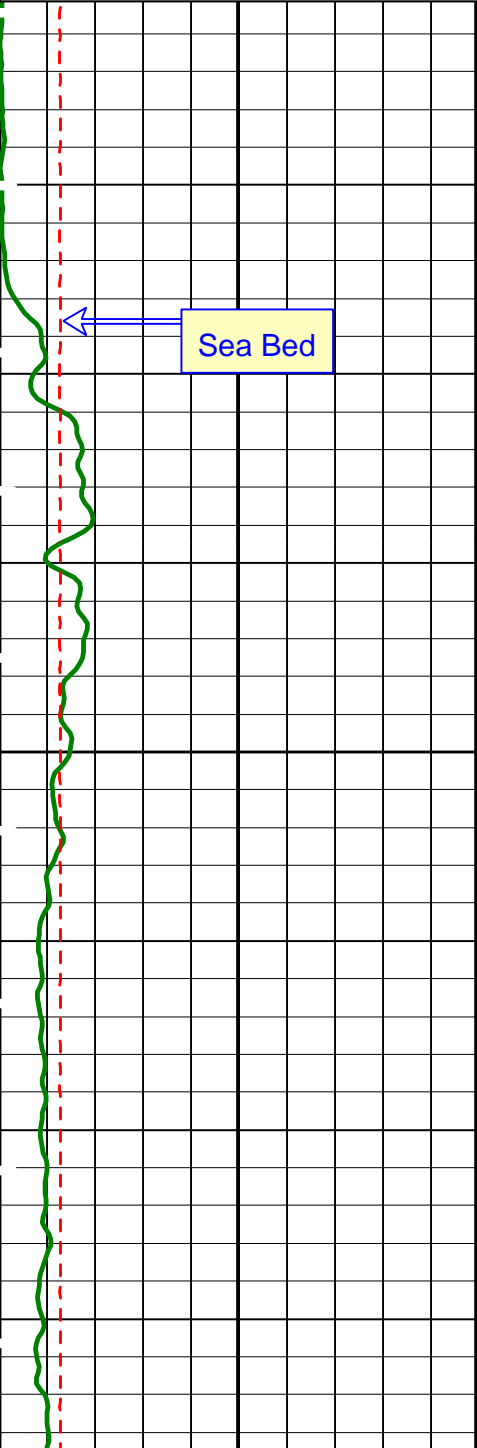
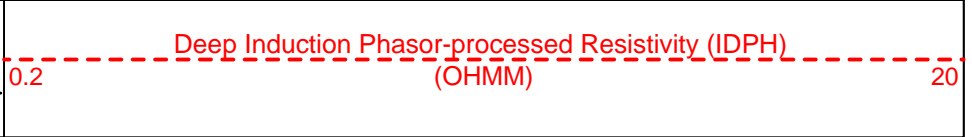
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From SFQF
to IMQF

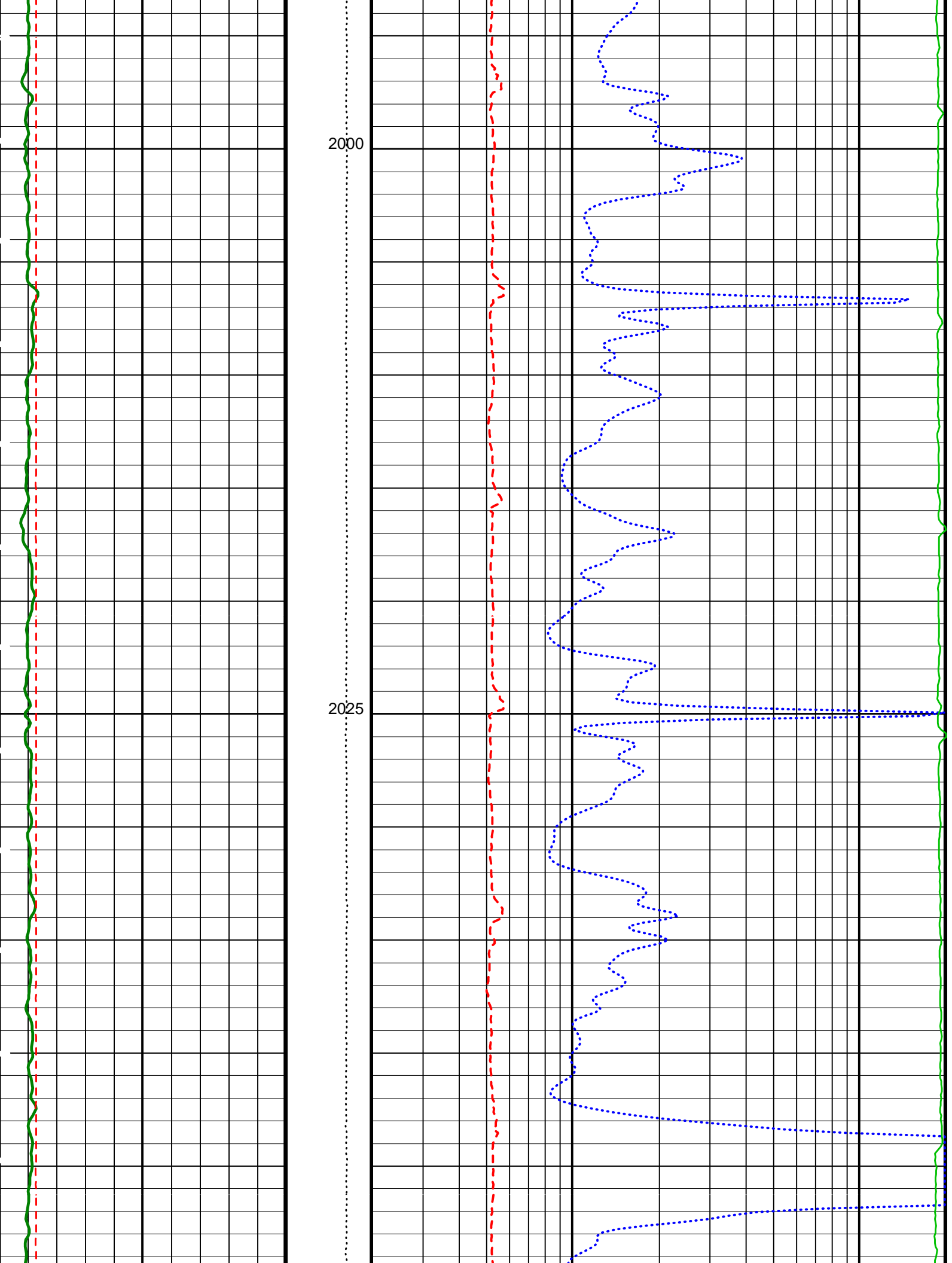


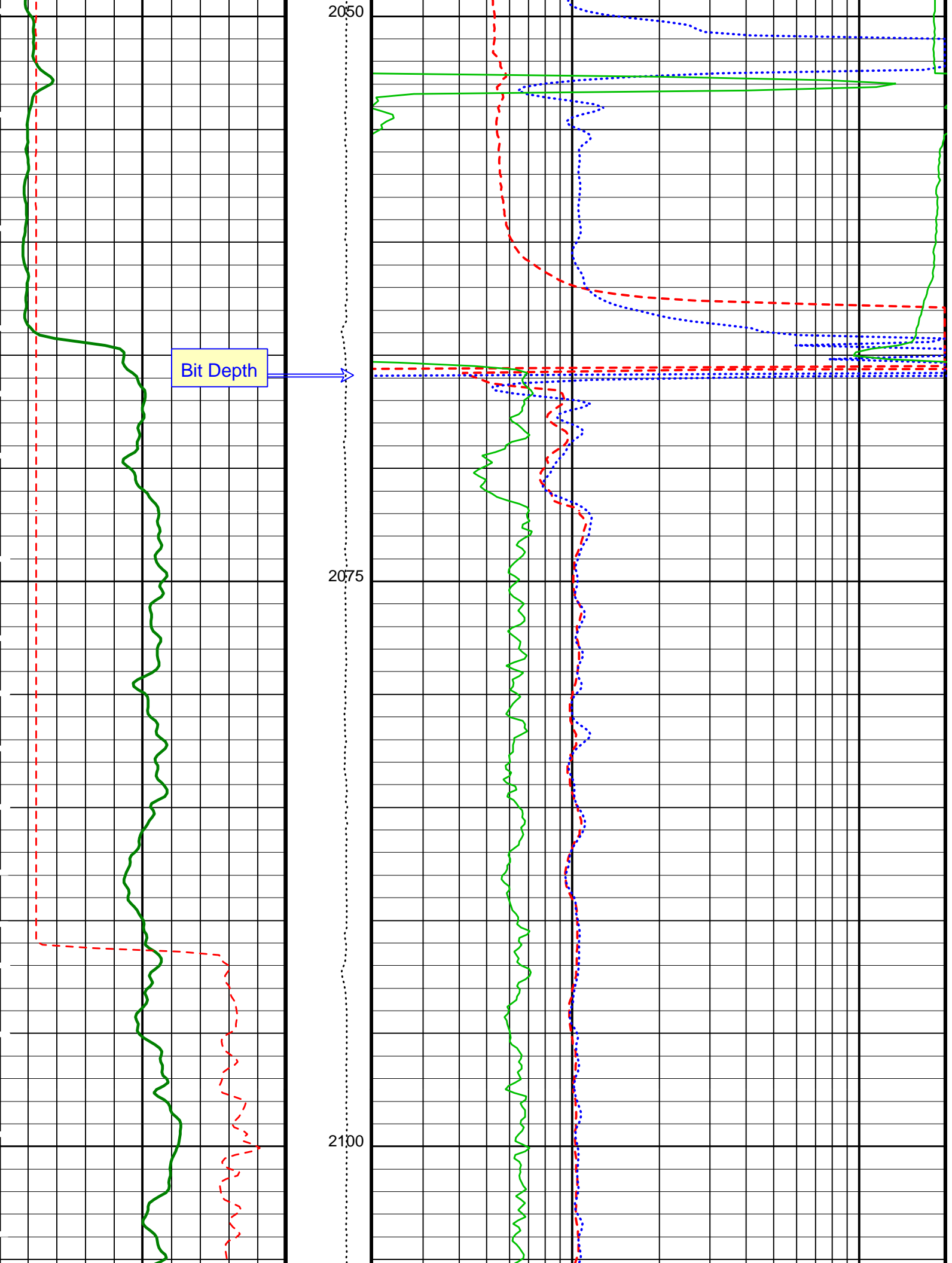
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From IMQF
to IDQF

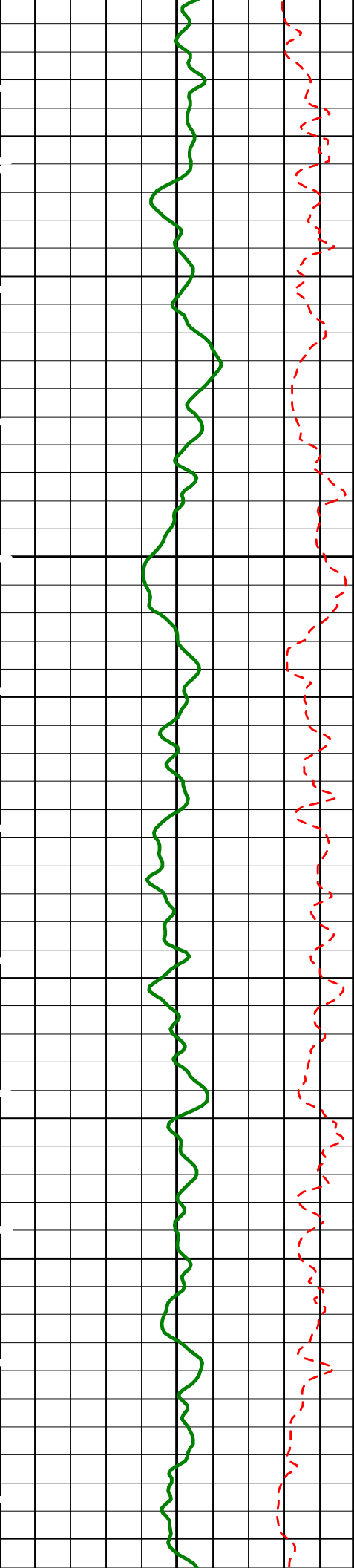


Tension (TENS) (LBF) 10000 0



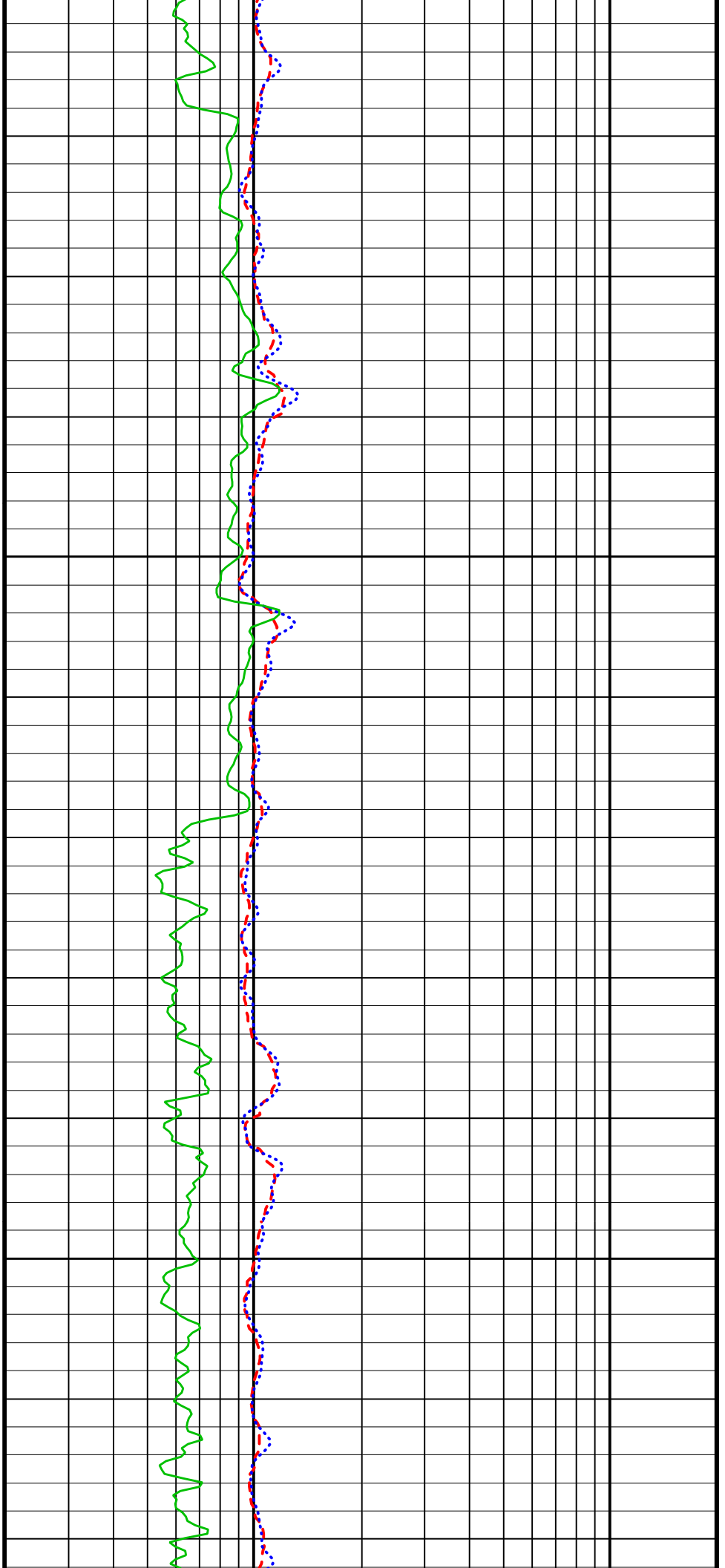


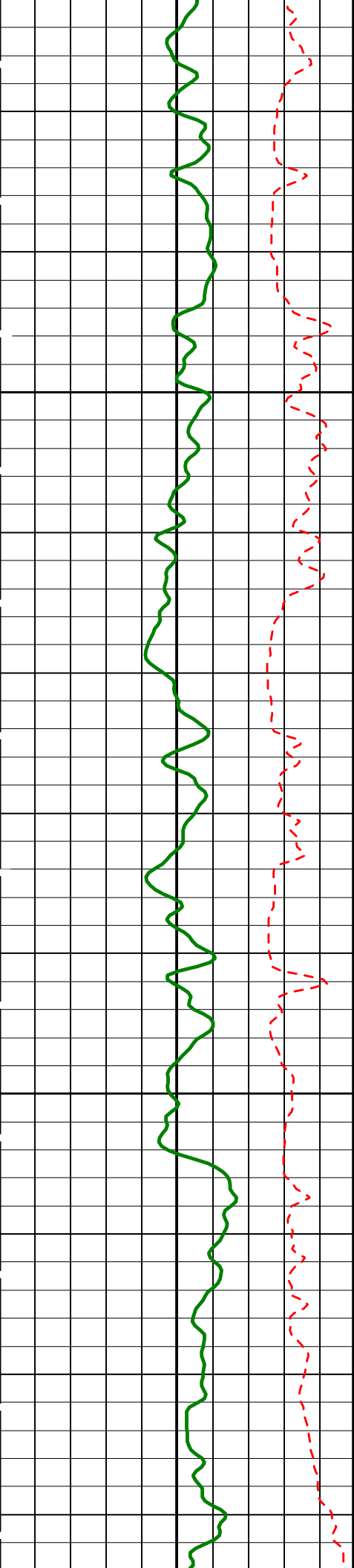




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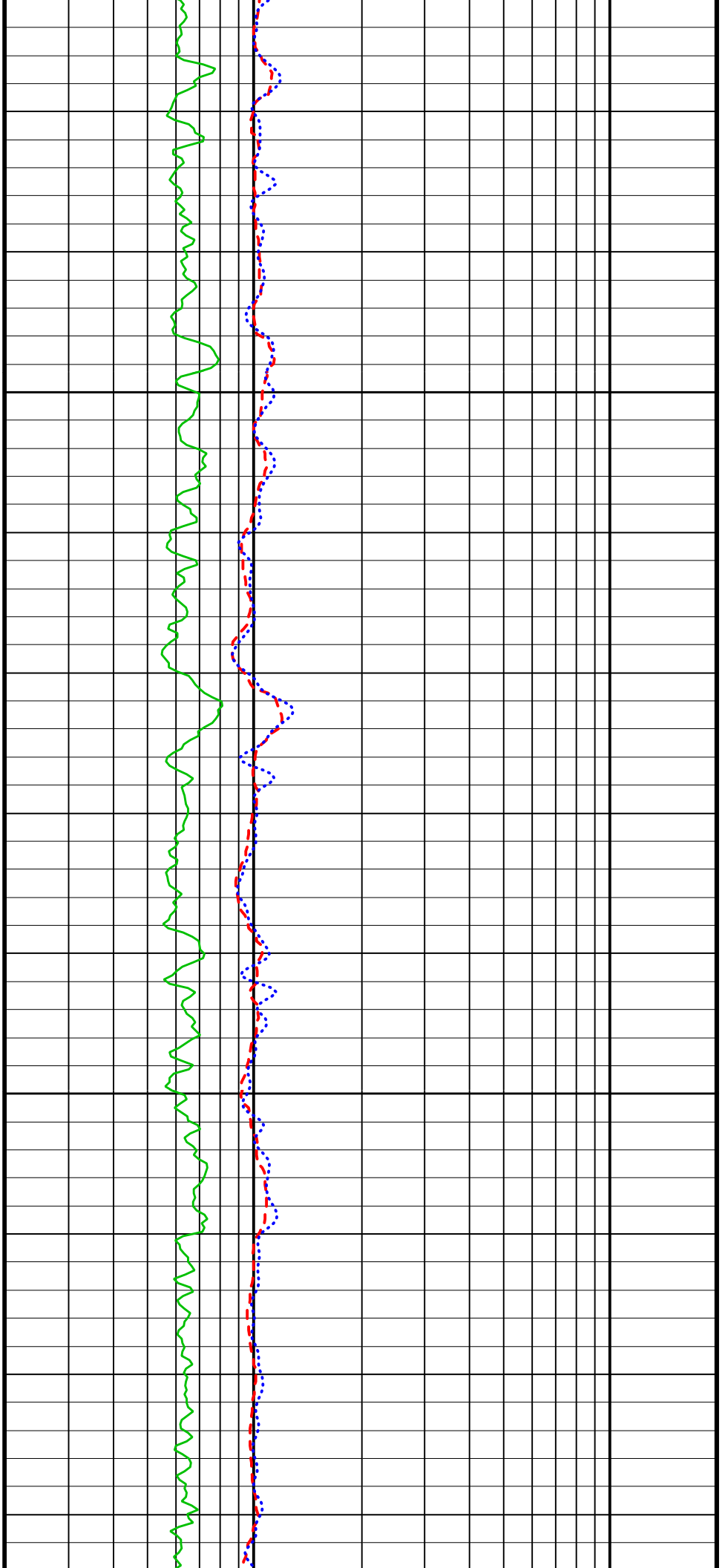
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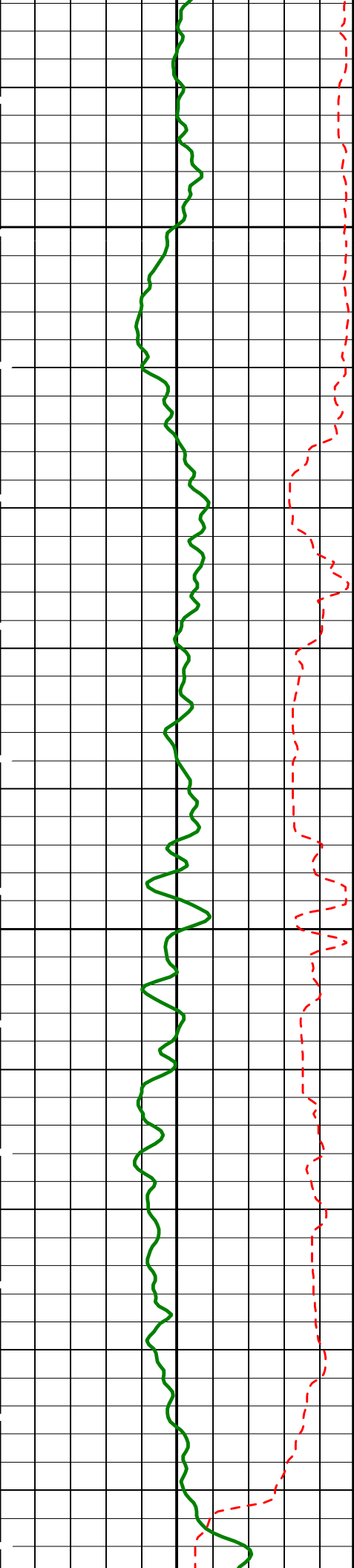




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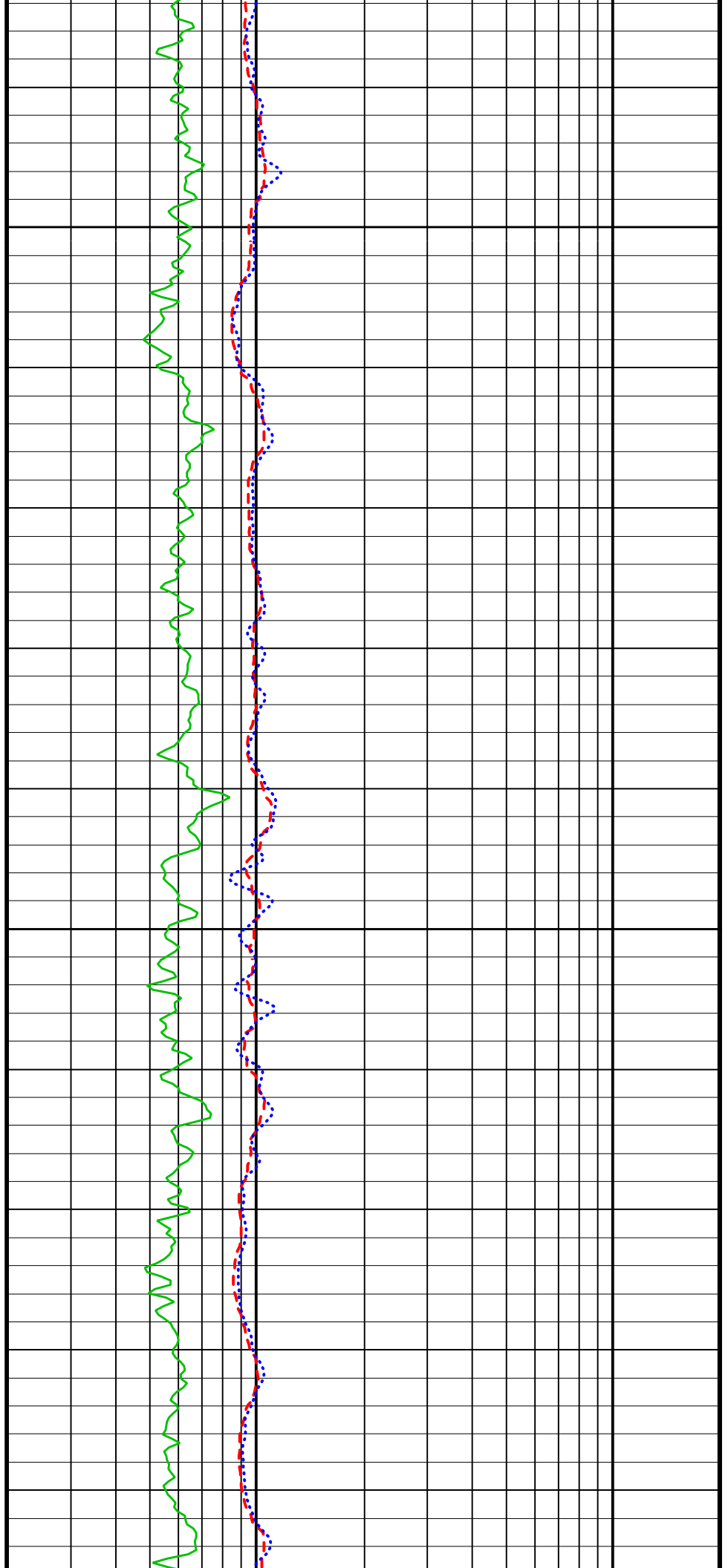
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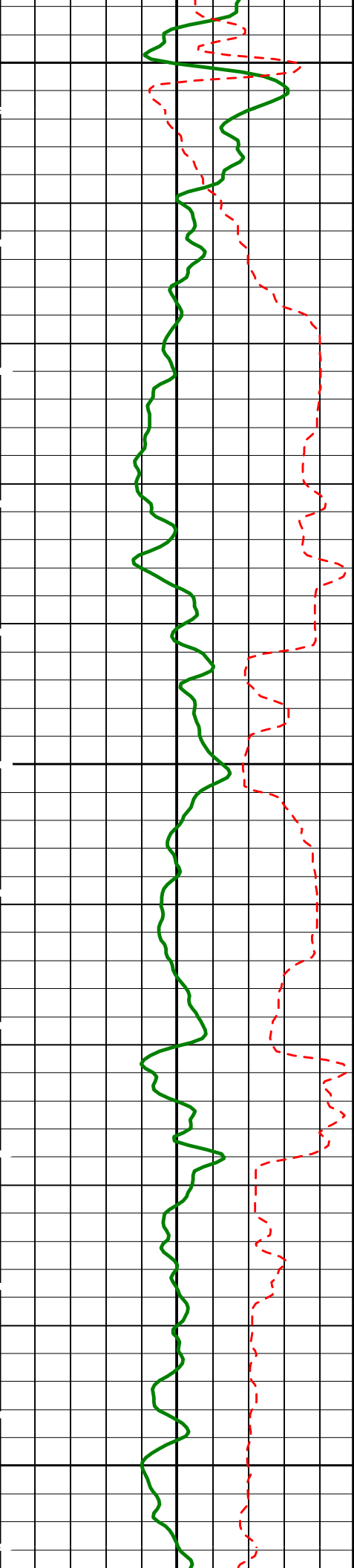




2225

2250

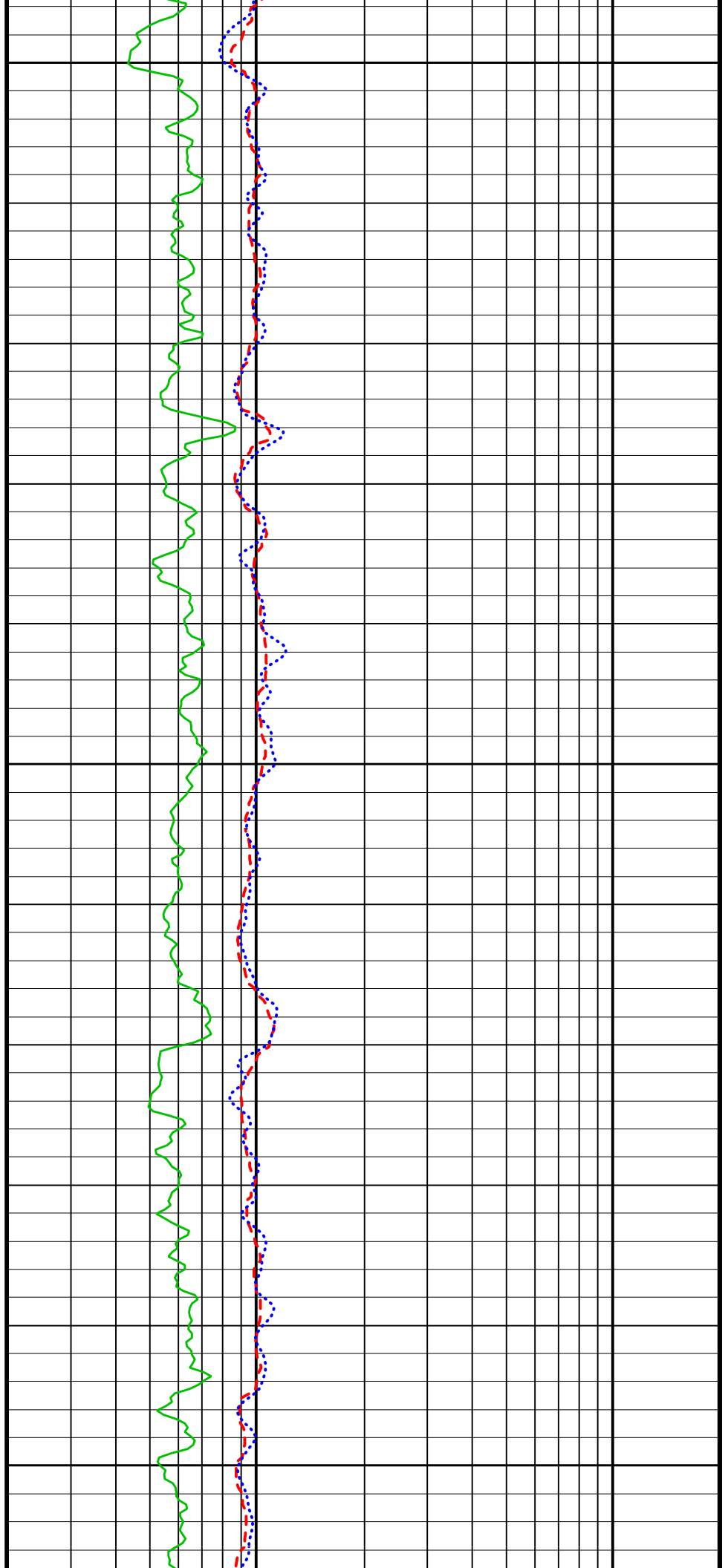


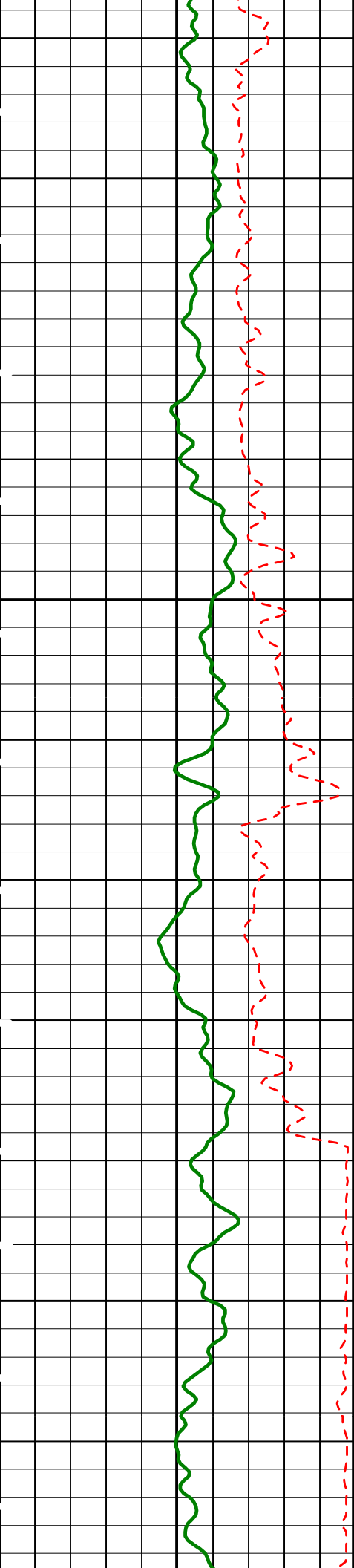


2275

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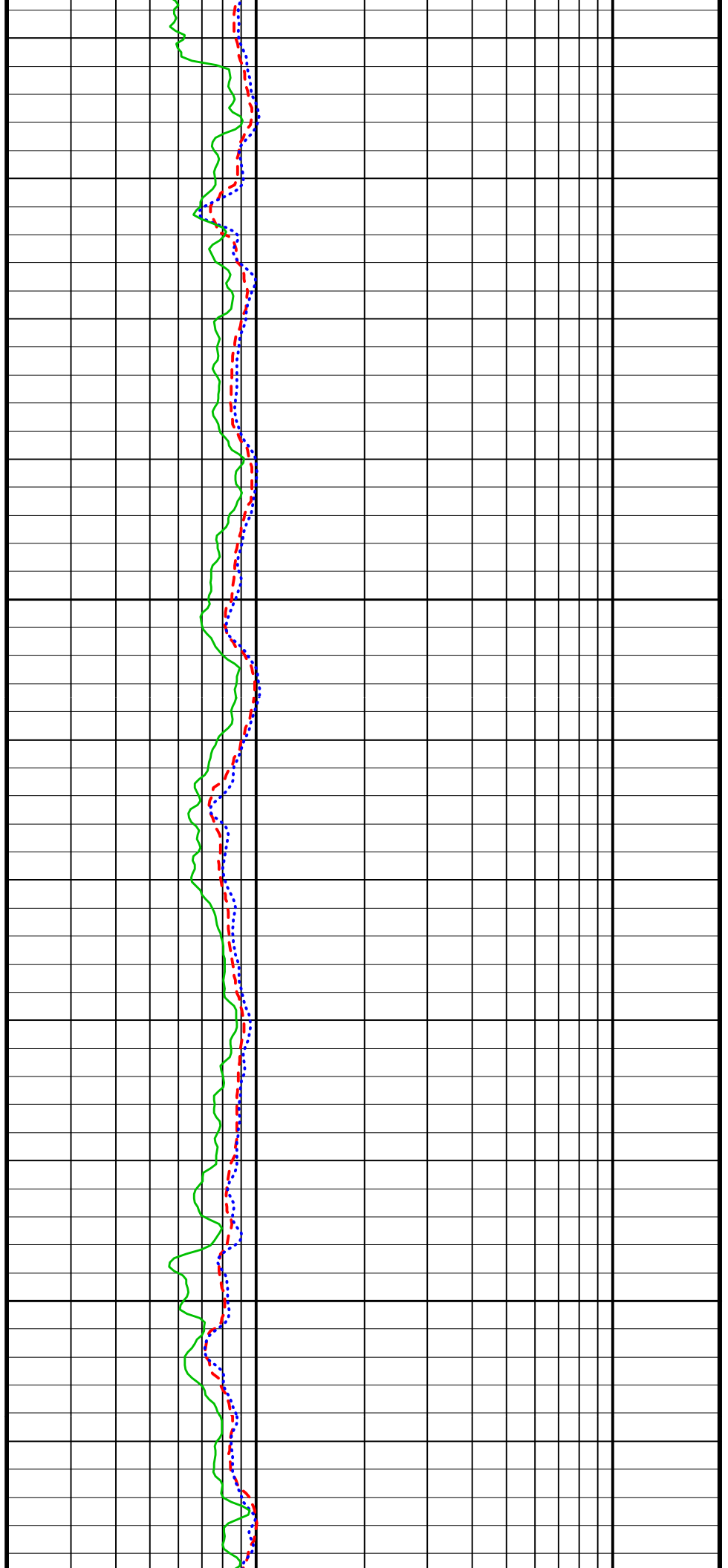
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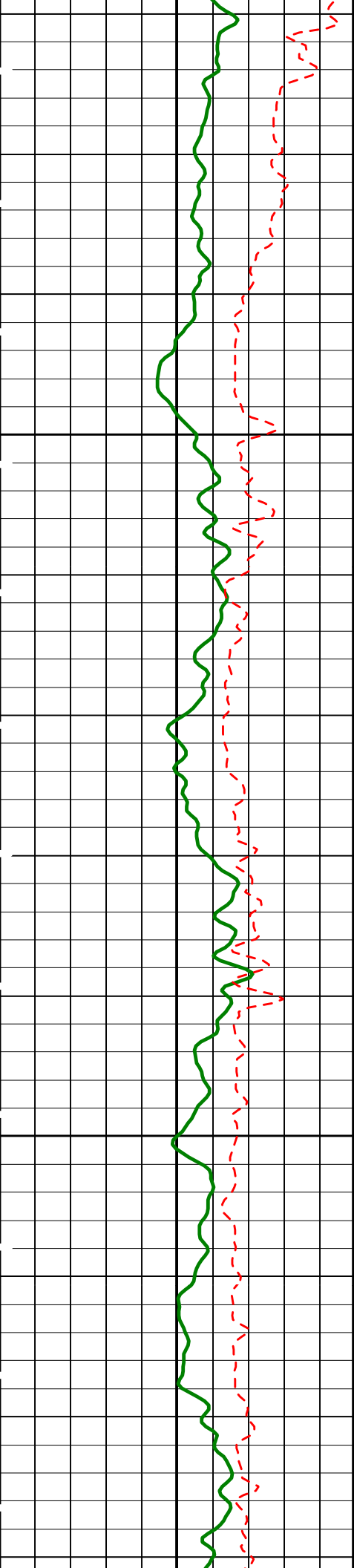




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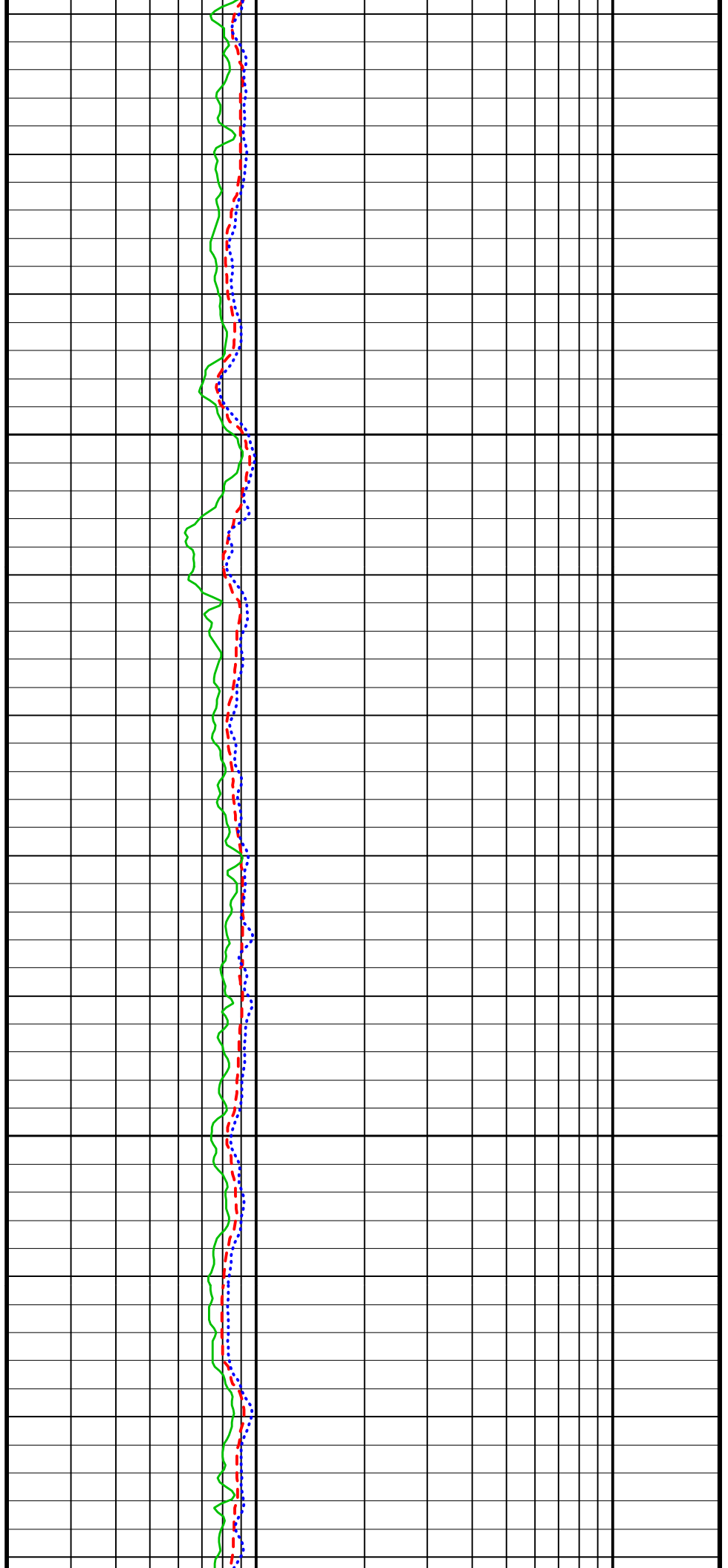
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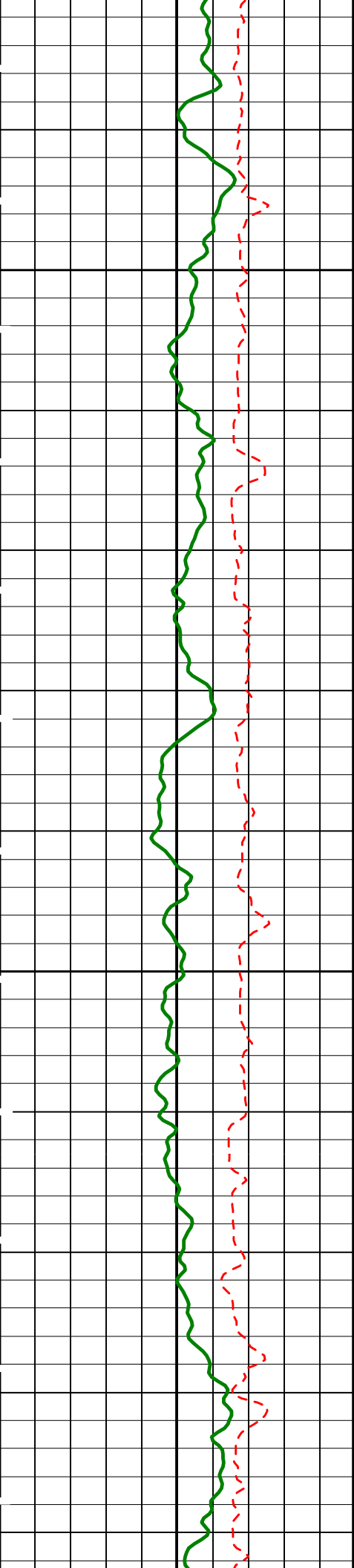




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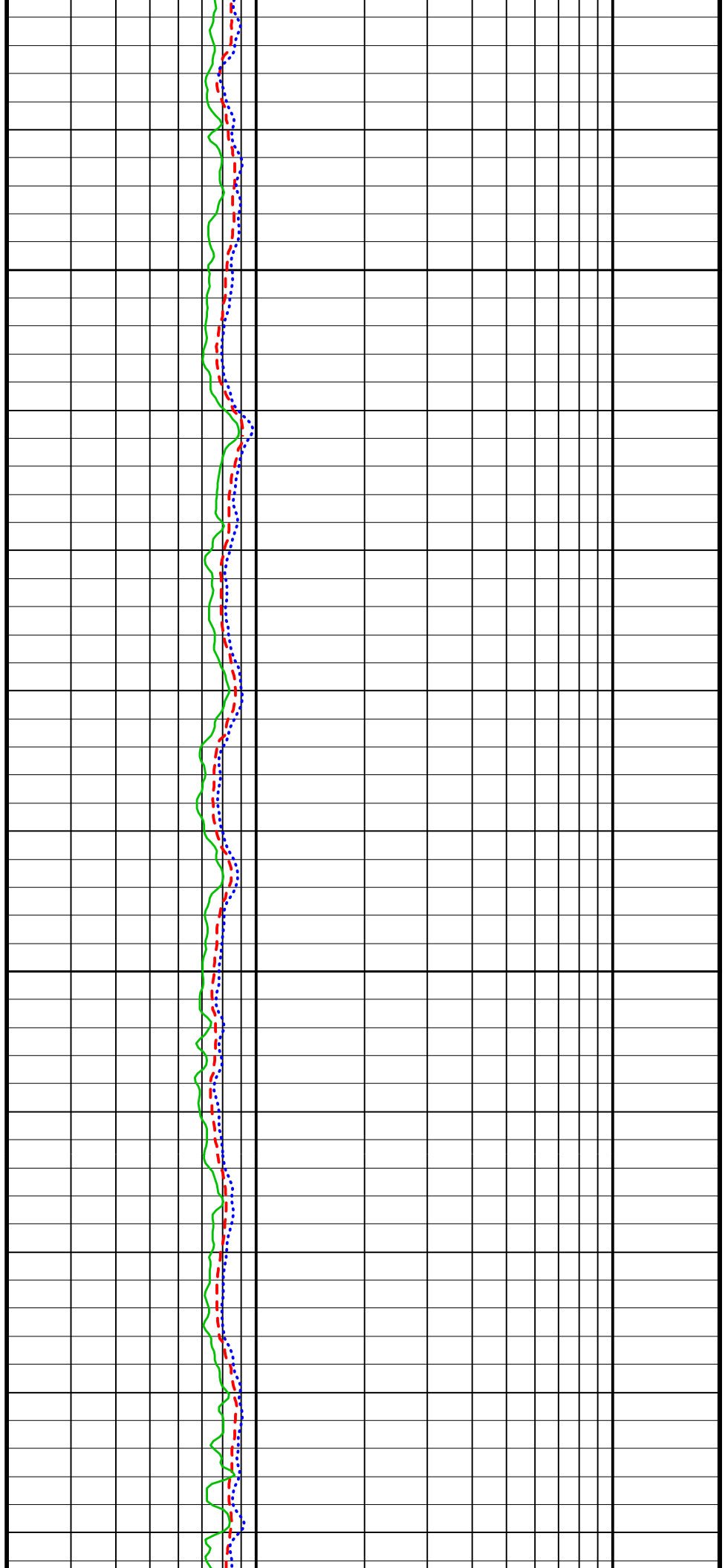
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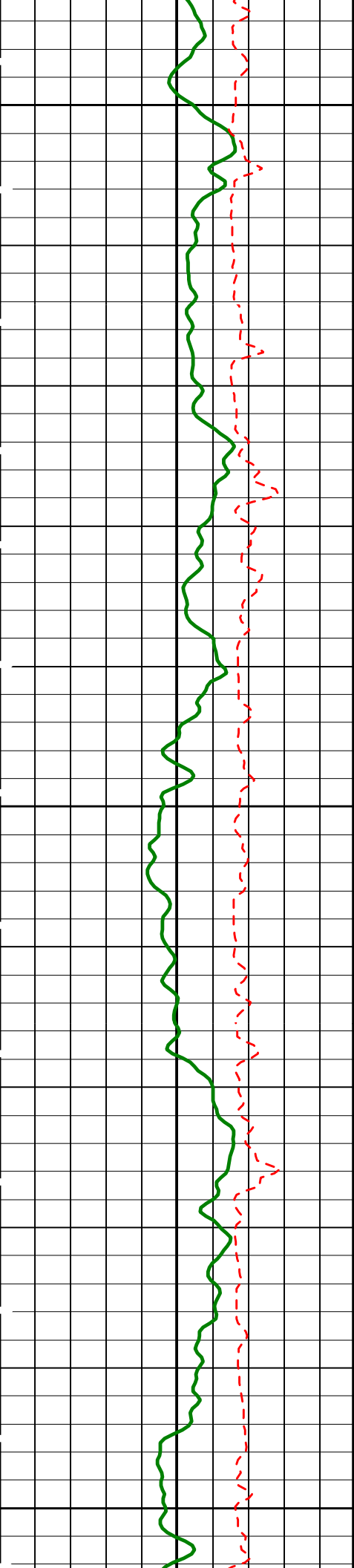




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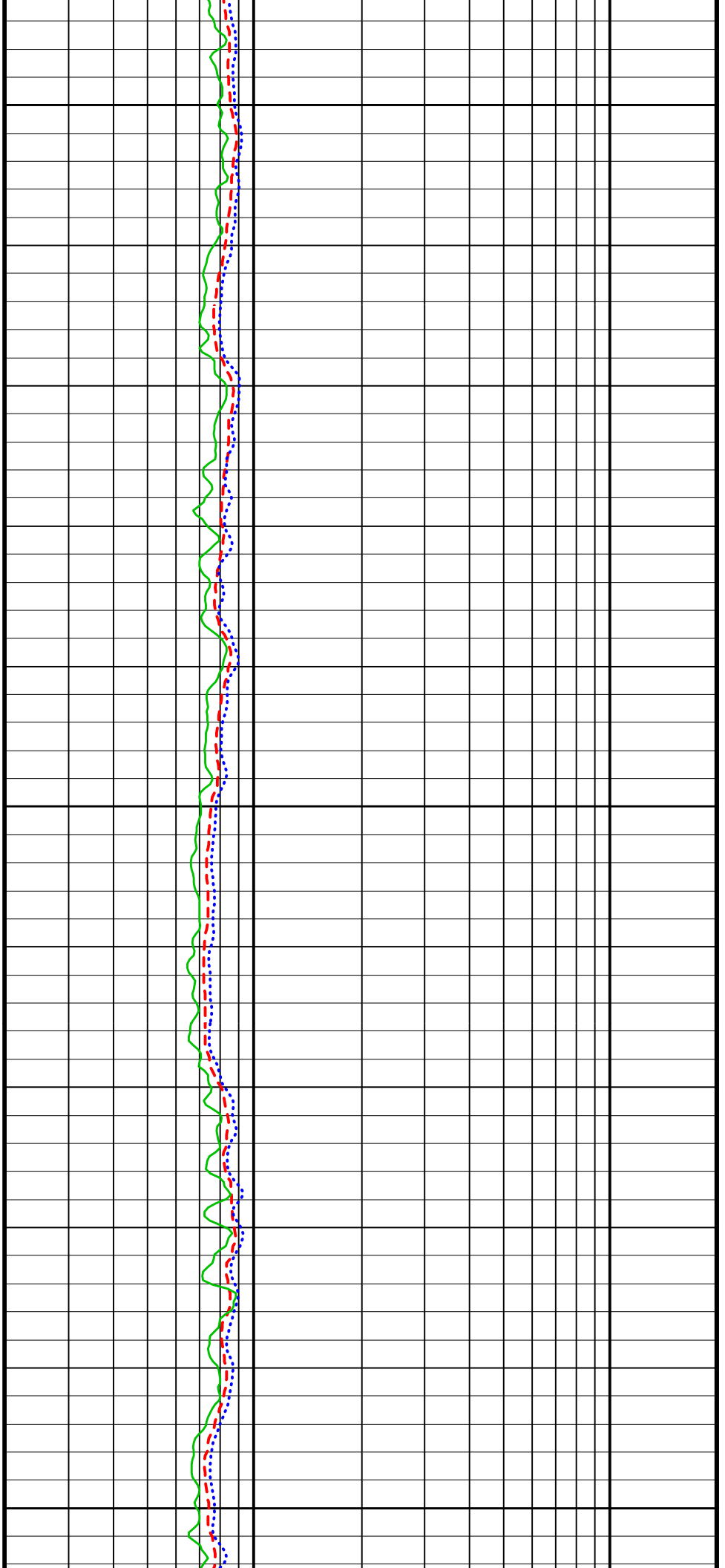


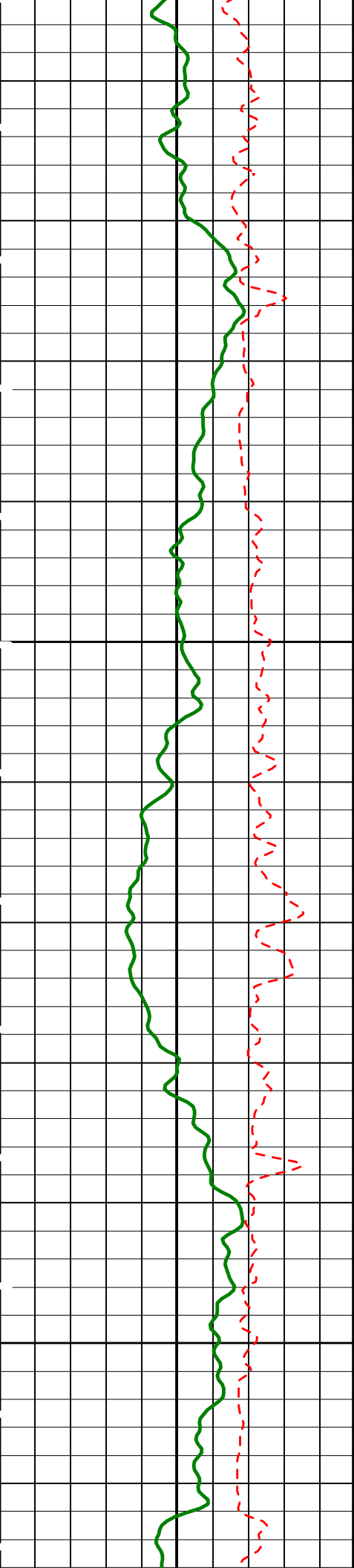


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2525

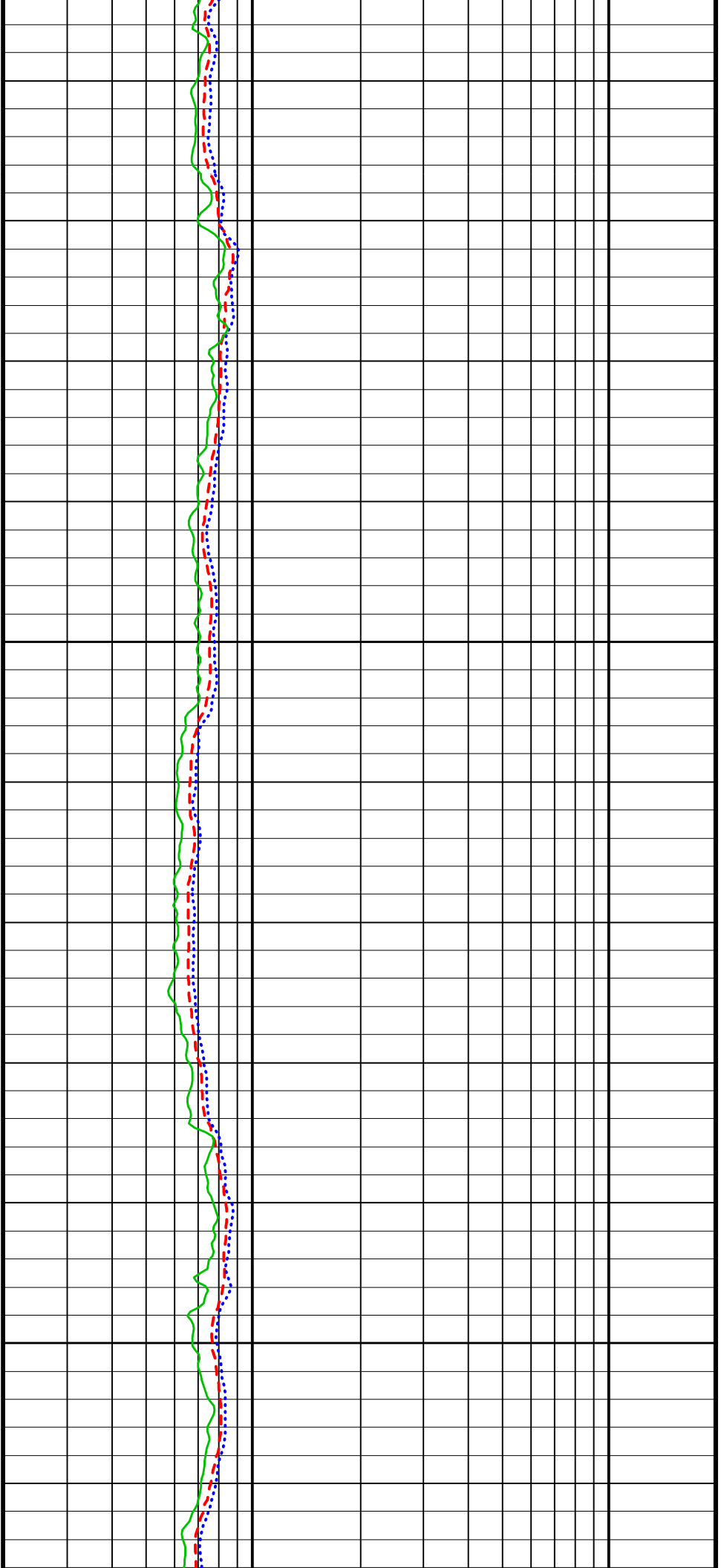
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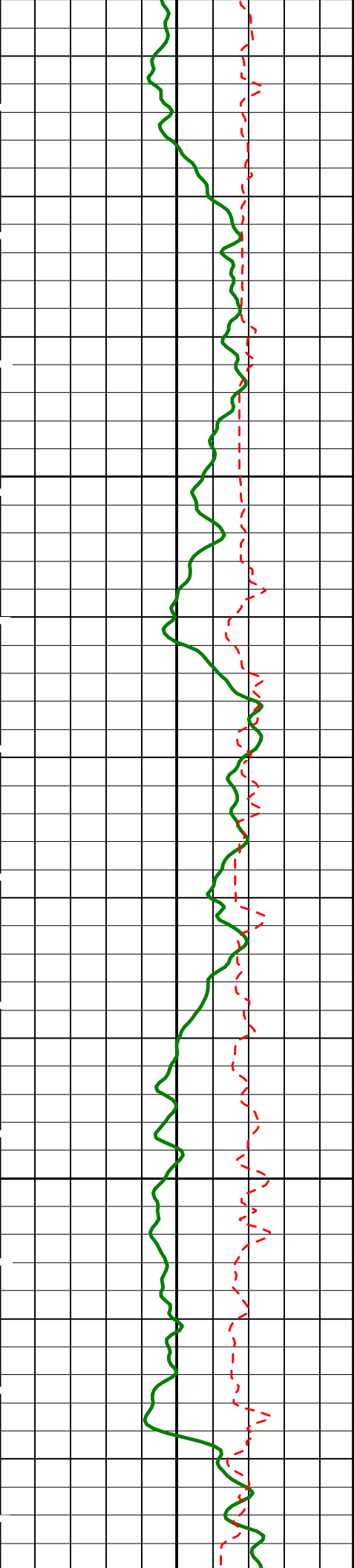




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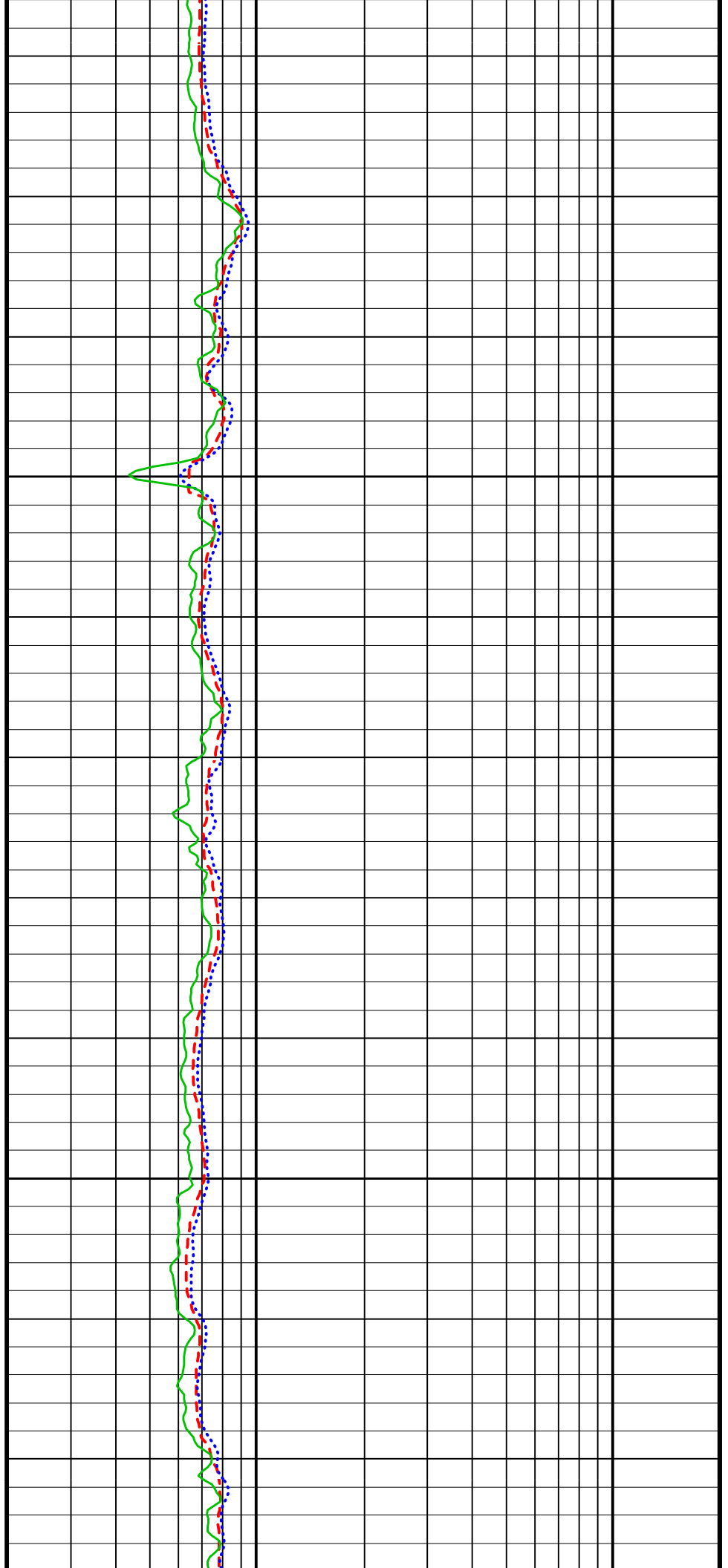
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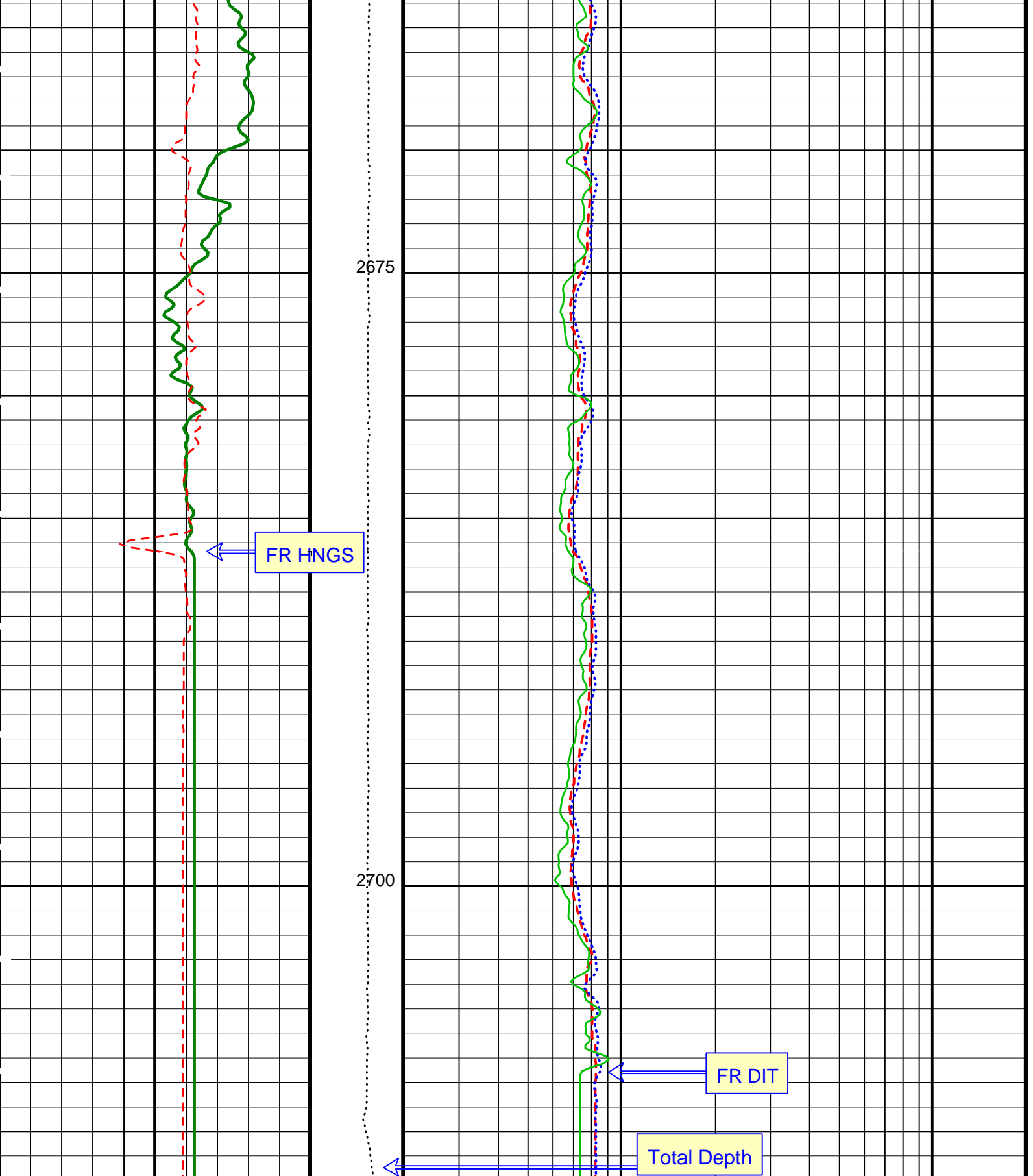




2625

2650





<p>HLDS Caliper (LCAL) (IN)</p> <p>0 20</p>	<p>Tension (TENS) (LBF)</p> <p>10000 0</p>	<p>Deep Induction Phasor-processed Resistivity (IDPH) (OHMM)</p> <p>0.2 20</p>
<p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</p> <p>0 100</p>	<p>ID_QUAL From IMQF to IDQF</p>	<p>Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)</p> <p>0.2 20</p>

IM_QUAL
From
SFQF to
IMQF

SFL Unaveraged (SFLU)
0.2 (OHMM) 20

SFL_QUAL
From D3T
to SFQF

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DIT-E: Dual Induction - E		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	212 DEGF
DGF1	Deep 10 kHz Gain Factor	0.968645
DGF2	Deep 20 kHz Gain Factor	0.979119
DGF4	Deep 40 kHz Gain Factor	0.990252
DPH1	Deep 10 kHz Phase Shift	0.26358 DEG
DPH2	Deep 20 kHz Phase Shift	0.0159963 DEG
DPH4	Deep 40 kHz Phase Shift	-1.11256 DEG
DRE1	Deep Real 10 kHz Sonde Error Correction	39.5751 MM/M
DRE2	Deep Real 20 kHz Sonde Error Correction	17.0457 MM/M
DRE4	Deep Real 40 kHz Sonde Error Correction	5.15121 MM/M
DRIM	DIT-E Radial Invasion Mode	Rxo>Rt
DSR1	Deep Sigma Reference (10 kHz)	7637 MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843 MM/M
DSR4	Deep Sigma Reference (40 kHz)	405 MM/M
DSTA	DIT-E Transversal Standoff	0 IN
DXE1	Deep Quad 10 kHz Sonde Error Correction	245.841 MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	136.154 MM/M
DXE4	Deep Quad 40 kHz Sonde Error Correction	78.4516 MM/M
GCSE	Generalized Caliper Selection	BS
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
IFRS	DIT-E Induction Frequency Selector	20
IPHA	DIT-E Phasor Processing Mode	ALL
IPRO	DIT-E Induction Processing Selector	PHASOR
ISSBAR	Barite Mud Switch	NOBARITE
ITEN	DIT-E Temperature Enable	ENABLE
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
MGF1	Medium 10 kHz Gain Factor	0.969585
MGF2	Medium 20 kHz Gain Factor	0.974788
MGF4	Medium 40 kHz Gain Factor	0.999842
MPH1	Medium 10 kHz Phase Shift	0.0787021 DEG
MPH2	Medium 20 kHz Phase Shift	-0.199528 DEG
MPH4	Medium 40 kHz Phase Shift	-0.885081 DEG
MRE1	Medium Real 10 kHz Sonde Error Correction	31.1041 MM/M
MRE2	Medium Real 20 kHz Sonde Error Correction	11.3259 MM/M
MRE4	Medium Real 40 kHz Sonde Error Correction	3.5782 MM/M
MSR1	Medium Sigma Reference (10 kHz)	13520 MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250 MM/M
MSR4	Medium Sigma Reference (40 kHz)	685 MM/M
MXE1	Medium Quad 10 kHz Sonde Error Correction	328.09 MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	172.606 MM/M
MXE4	Medium Quad 40 kHz Sonde Error Correction	112.808 MM/M
SBR	Shoulder Bed Resistivity Factor	1 OHMM
SFCR	SFL Channel Ratio	1000
SFLE	SFL Enable	ENABLE
SHT	Surface Hole Temperature	68 DEGF
SPAE	DIT-E SPARC Processing Enable	ENABLE
SPNV	SP Next Value	0 MV
GPIT-A/B: General Purpose Inclinometer		
ACPP	Accelerometer PROM Presence	PRESENT
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
ART	Accelerometer Reference Temperature	20 DEGC
GLM	GPIT Logging Mode	DIPM
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION
MAPP	Magnetometer PROM Presence	PRESENT
MDEC	Magnetic Field Declination	6.53026 DEG
MRTE	Magneto Reference Temperature	23 DEGC
TEMS	GPIT Temperature Sensor Used	BOTH
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO

APS-C: Accelerator-Porosity Tool			
	APS Software Version	0	
AASD	APS Thermal and Array Detectors High Voltage Setting	1965.7	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2077.27	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1732.81	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source	COMPUTED	
FSAL	Formation Salinity	-50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.05904	
NFRC	APS Near/Far Calibration Ratio	0.885245	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	68	DEGF
TNCO_APS	APS TNPH Computation Option	NO	
HLDS: Hostile Litho-Density Sonde			
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	OFF	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEN	Matrix Density	2.71	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
HNCS: Hostile Natural Gamma Ray Sonde			
BAR1	HNCS Detector 1 Barite Constant	1	
BAR2	HNCS Detector 2 Barite Constant	1	
BHK	HNCS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNCS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNCS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNCS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNCS Borehole Potassium Running Average	-0.00131773	
HALF	HNCS Alpha Filter Length	60	IN
HCRB	HNCS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNCS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNCS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNCS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNCS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF

TPOS	Tool Position		ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average		0.995647	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average		0.982227	
System and Miscellaneous				
ALTDPCCHAN	Name of alternate depth channel		SpeedCorrectedDepth	
BS	Bit Size		11.438	IN
BSAL	Borehole Salinity		-50000.00	PPM
CSIZ	Current Casing Size		4.500	IN
CWEI	Casing Weight		0.00	LB/F
DFD	Drilling Fluid Density		1.26	G/C3
DO	Depth Offset for Playback		0.9	M
FLEV	Fluid Level		-50000.00	M
MST	Mud Sample Temperature		-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback		NO	
PP	Playback Processing		NORMAL	
RMFS	Resistivity of Mud Filtrate Sample		-50000.0000	OHMM
RW	Resistivity of Connate Water		1.0000	OHMM
TD	Total Depth		-50000	FT
TDD	Total Depth - Driller		2711.80	M
TDL	Total Depth - Logger		2711.80	M
TWS	Temperature of Connate Water Sample		37.78	DEGC

Format: DITE_LogPhasor Vertical Scale: 1:200 Graphics File Created: 13-Aug-2009 13:26

OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

Input DLIS Files

DEFAULT	PI_APS_LDL_NGS_064LUP	FN:12	PRODUCER	12-Aug-2009 16:51	2711.2 M	1954.2 M
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Output DLIS Files

DEFAULT	PI_APS_LDL_NGS_082PUP	FN:37	PRODUCER	13-Aug-2009 13:26		
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**Repeat Pass
OH Only**

MAXIS Field Log

Input DLIS Files

DEFAULT	PI_APS_LDL_NGS_063LUP	FN:10	PRODUCER	12-Aug-2009 16:27	2711.2 M	2644.3 M
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Output DLIS Files

DEFAULT	PI_APS_LDL_NGS_081PUP	FN:36	PRODUCER	13-Aug-2009 13:23	2712.7 M	2645.8 M
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OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

PIP SUMMARY

▶ Time Mark Every 60 S

SFL_QUAL
From D3T
to SFQF

IM_QUAL
From
SFQF to
IMQF

ID_QUAL
From
IMQF to
IDQF

Tension
(TENS)
(LBF)
10000 0

SFL Unaveraged (SFLU)
(OHMM)

Medium Induction Phasor-processed Resistivity (IMPH)
(OHMM)

Deep Induction Phasor-processed Resistivity (IDPH)
(OHMM)

HNGS Spectroscopy Gamma Ray
(HSGR)
(GAPI)

HLDS Caliper (LCAL)
(IN)

0 100

0 20

0.2

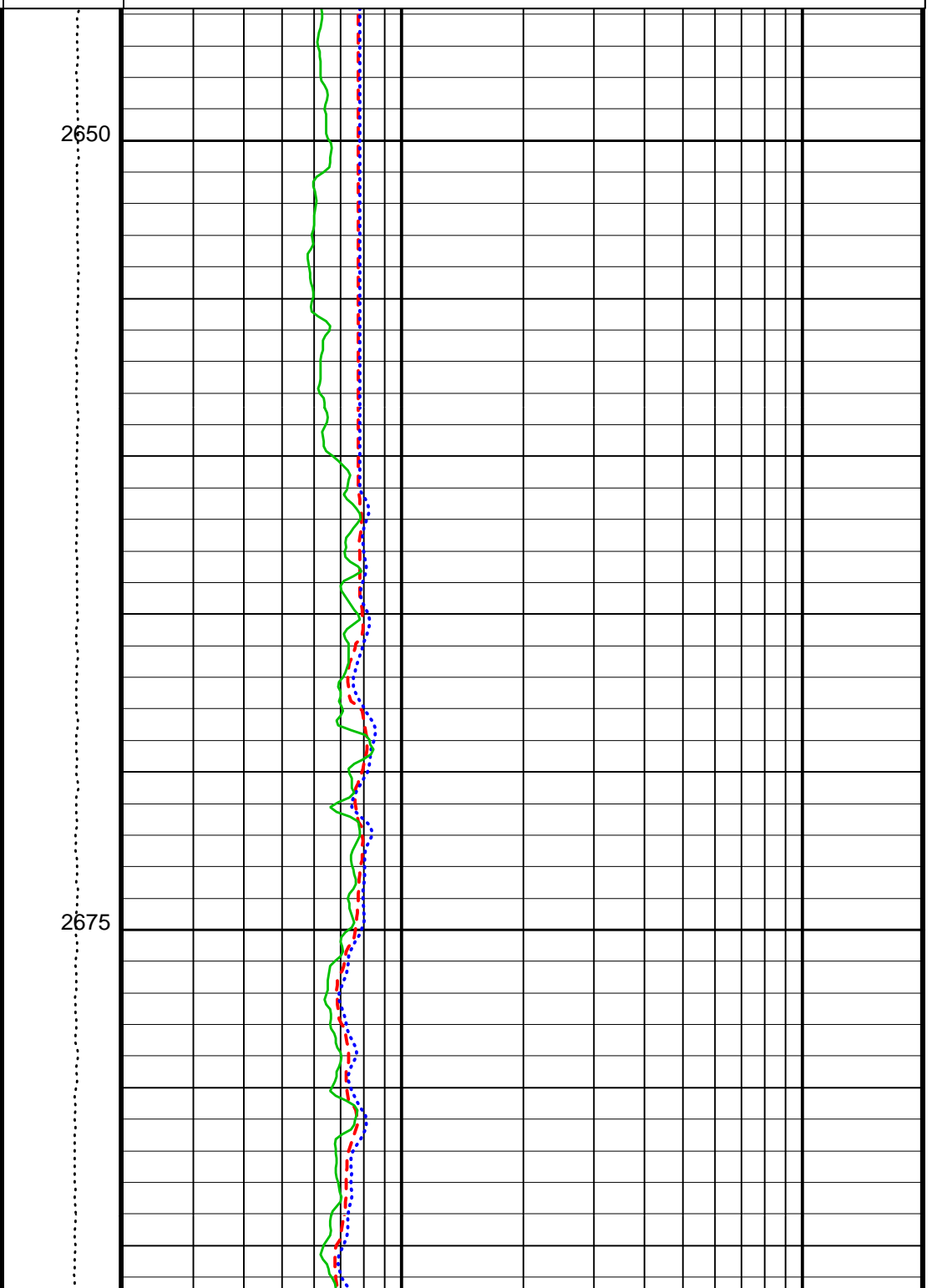
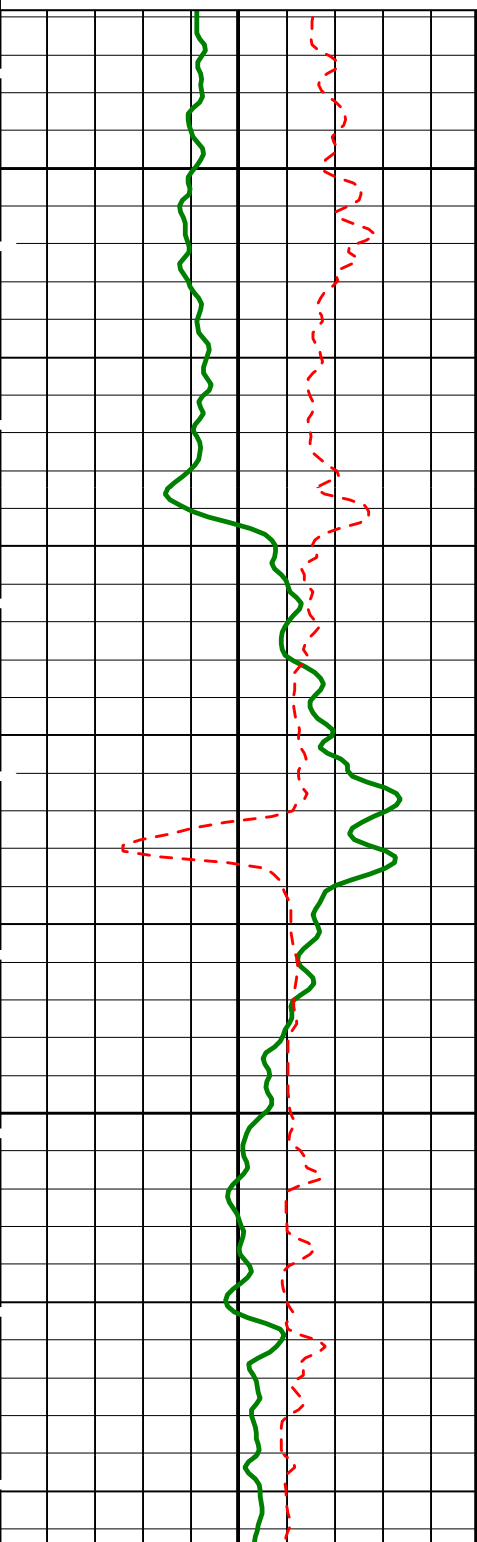
0.2

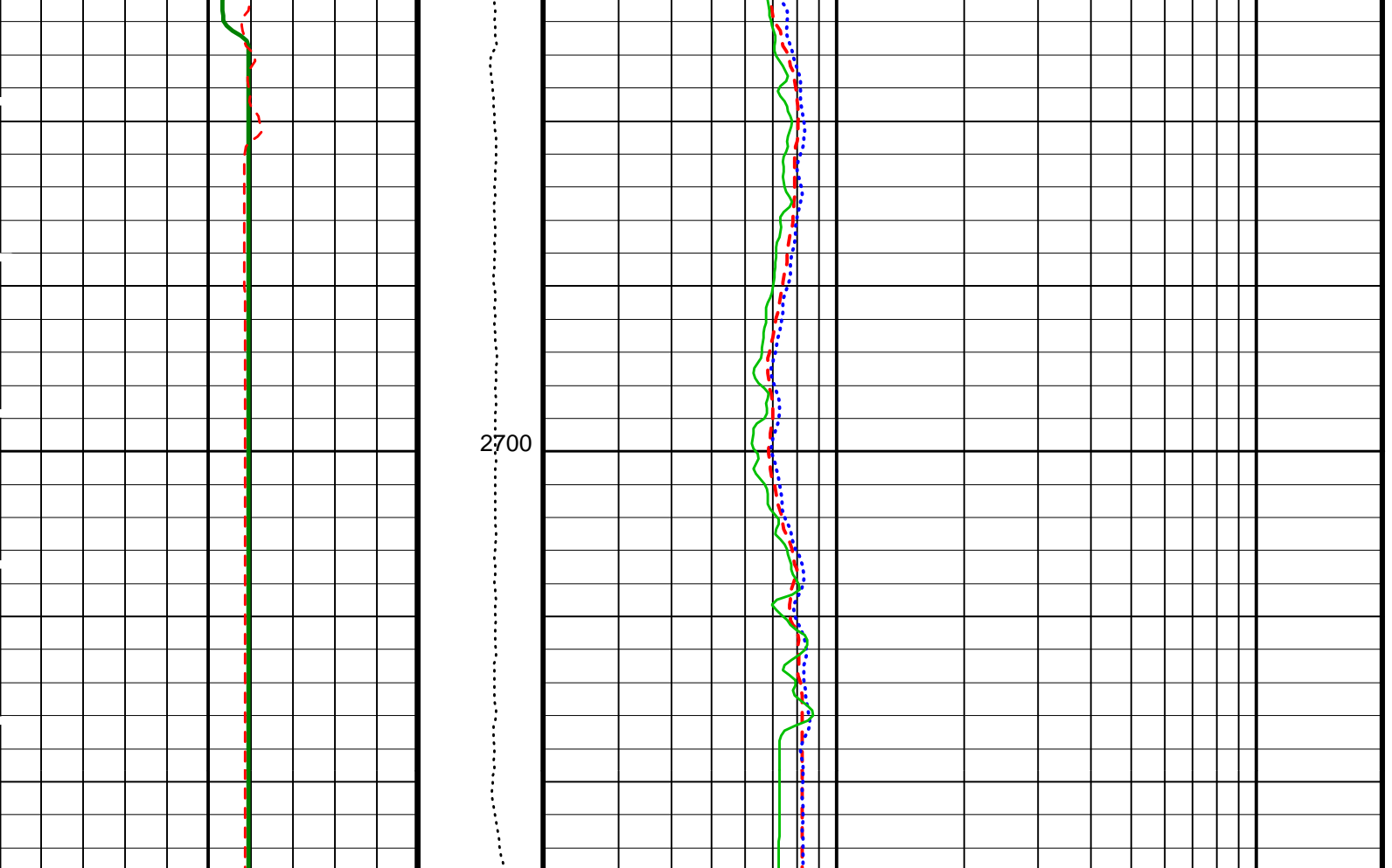
0.2

20

20

20





<p>HLDS Caliper (LCAL) (IN)</p> <p>0 20</p>	<p>Tension (TENS) (LBF)</p> <p>10000 0</p>	<p>Deep Induction Phasor-processed Resistivity (IDPH) (OHMM)</p> <p>0.2 20</p>
<p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</p> <p>0 100</p>	<p>ID_QUAL From IMQF to IDQF</p>	<p>Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)</p> <p>0.2 20</p>
	<p>IM_QUAL From SFQF to IMQF</p>	<p>SFL Unaveraged (SFLU) (OHMM)</p> <p>0.2 20</p>
	<p>SFL_ QUAL From D3T to SFQF</p>	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DIT-E: Dual Induction - E		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	212 DEG F
DGF1	Deep 10 kHz Gain Factor	0.968645
DGF2	Deep 20 kHz Gain Factor	0.979119
DGF4	Deep 40 kHz Gain Factor	0.990252
DPH1	Deep 10 kHz Phase Shift	0.26358 DEG
DPH2	Deep 20 kHz Phase Shift	0.0159963 DEG
DPH4	Deep 40 kHz Phase Shift	-1.11256 DEG
DRE1	Deep Real 10 kHz Sonde Error Correction	39.5751 MM/M
DRE2	Deep Real 20 kHz Sonde Error Correction	17.0457 MM/M
DRE4	Deep Real 40 kHz Sonde Error Correction	5.15121 MM/M

DRIM	DIT-E Radial Invasion Mode	Rxo>Rt	
DSR1	Deep Sigma Reference (10 kHz)	7637	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DSR4	Deep Sigma Reference (40 kHz)	405	MM/M
DSTA	DIT-E Transversal Standoff	0	IN
DXE1	Deep Quad 10 kHz Sonde Error Correction	245.841	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	136.154	MM/M
DXE4	Deep Quad 40 kHz Sonde Error Correction	78.4516	MM/M
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
IFRS	DIT-E Induction Frequency Selector	20	
IPHA	DIT-E Phasor Processing Mode	ALL	
IPRO	DIT-E Induction Processing Selector	PHASOR	
ISSBAR	Barite Mud Switch	NOBARITE	
ITEN	DIT-E Temperature Enable	ENABLE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MGF1	Medium 10 kHz Gain Factor	0.969585	
MGF2	Medium 20 kHz Gain Factor	0.974788	
MGF4	Medium 40 kHz Gain Factor	0.999842	
MPH1	Medium 10 kHz Phase Shift	0.0787021	DEG
MPH2	Medium 20 kHz Phase Shift	-0.199528	DEG
MPH4	Medium 40 kHz Phase Shift	-0.885081	DEG
MRE1	Medium Real 10 kHz Sonde Error Correction	31.1041	MM/M
MRE2	Medium Real 20 kHz Sonde Error Correction	11.3259	MM/M
MRE4	Medium Real 40 kHz Sonde Error Correction	3.5782	MM/M
MSR1	Medium Sigma Reference (10 kHz)	13520	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MSR4	Medium Sigma Reference (40 kHz)	685	MM/M
MXE1	Medium Quad 10 kHz Sonde Error Correction	328.09	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	172.606	MM/M
MXE4	Medium Quad 40 kHz Sonde Error Correction	112.808	MM/M
SBR	Shoulder Bed Resistivity Factor	1	OHMM
SFCR	SFL Channel Ratio	1000	
SFLE	SFL Enable	ENABLE	
SHT	Surface Hole Temperature	68	DEGF
SPAE	DIT-E SPARC Processing Enable	ENABLE	
SPNV	SP Next Value	0	MV

GPIT-A/B: General Purpose Inclinometer

ACPP	Accelerometer PROM Presence	PRESENT	
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ART	Accelerometer Reference Temperature	20	DEGC
GLM	GPIT Logging Mode	DIPM	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MAPP	Magnetometer PROM Presence	PRESENT	
MDEC	Magnetic Field Declination	6.53026	DEG
MRTE	Magneto Reference Temperature	23	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO	

APS-C: Accelerator-Porosity Tool

AASD	APS Software Version	0	
ADSO	APS Thermal and Array Detectors High Voltage Setting	1965.7	V
AFSD	APS Array Detectors Data Source Switch	Both	
AHCS	APS Far Detector High Voltage Setting	2077.27	V
AHSS	APS Holesize Correction Source	BS	
AMTY	APS Holesize Correction Switch	ON	
ANSD	APS Environmental Corrections Mud Type	WaterBaseBarite	
ASOS	APS Near Detector High Voltage Setting	1732.81	V
ATSS	APS Standoff Correction Switch	ON	
BHFL_APS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHS	APS TNPH Borehole Fluid Type	WATER	
BHT	Borehole Status	OPEN	
BSCO_APS	Bottom Hole Temperature (used in calculations)	212	DEGF
DPPM	APS TNPH Borehole Salinity Correction Option	YES	
DSCO_APS	Density Porosity Processing Mode	HIRS	
FSAL	APS TNPH Density Source	COMPUTED	
FSCO_APS	Formation Salinity	-50000	PPM
GCSE	APS TNPH Formation Salinity Correction Option	NO	
GDEV	Generalized Caliper Selection	BS	
GGRD	Average Angular Deviation of Borehole from Normal	0	DEG
GRSE	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
HSCO_APS	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	APS TNPH Hole Size Correction Option	YES	
MATR	Barite Mud Switch	NOBARITE	
MCCO_APS	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCOR_APS	APS TNPH Mud Cake Correction Option	YES	
MWCO_APS	APS TNPH Mud Correction	NATU	
NARC	APS TNPH Mud Weight Correction Option	YES	
NTRC	APS Near/Array Calibration Ratio	1.05904	
PTCO	APS Near/Far Calibration Ratio	0.885245	
BTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	

PTCO_APS	AP3 TNPH Pressure Temperature Correction Option	YES	
SHT	Surface Hole Temperature	68	DEGF
TNCO_APS	APS TNPH Computation Option	NO	
HLDS: Hostile Litho-Density Sonde			
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	OFF	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEN	Matrix Density	2.71	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GRGD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00131773	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.995647	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.982227	
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	1.5	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	FT
TDD	Total Depth - Driller	2711.80	M
TDL	Total Depth - Logger	2711.80	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: DITE_LogPhasor

Vertical Scale: 1:200

Graphics File Created: 13-Aug-2009 13:23

OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

Input DLIS Files

DEFAULT PI_APS_LDL_NGS_063LUP FN:10 PRODUCER 12-Aug-2009 16:27 2711.2 M 2644.3 M

Output DLIS Files

DEFAULT PI_APS_LDL_NGS_081PUP FN:36 PRODUCER 13-Aug-2009 13:23



Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
General Purpose Inclinometer Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 12-Aug-2009 13:51							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	743	N/A	N/A	N/A	
General Purpose Inclinometer Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 12-Aug-2009 13:51							
TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	507	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 18-Jun-2009 23:03 Before: 12-Aug-2009 13:55 After: 12-Aug-2009 20:10							
Near Det Bkg Cntrate	30.00	32.09	33.10	31.38	-1.719	N/A	CPS
Far Det Bkg Cntrate	30.00	31.69	32.62	32.92	0.3005	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.61	28.03	28.55	0.5171	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.40	30.80	29.51	-1.285	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.33	33.40	32.33	-1.068	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 18-Jun-2009 23:03							
Near/Far Calibration Ratio	0.9250	0.8852	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.059	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.008	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration - Tank Check							
Master: 18-Jun-2009 23:03							
Array-1 Standoff Porosity	11.75	11.81	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.56	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.860	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9891	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	1.006	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.25	N/A	N/A	N/A	N/A	CU
Accelerator-Porosity Tool Wellsite Calibration - CCR7 signal boxes							
Master: 18-Jun-2009 23:03							
Near Detector Plateau Setting	1650	1733	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2077	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1966	N/A	N/A	N/A	N/A	V
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 30-Jun-2009 22:48 Before: 12-Aug-2009 13:55 After: 12-Aug-2009 21:13							
SS Cs Resolution Bkg	9.000	7.767	7.760	7.668	-0.09174	1.800	%
LS Cs Resolution Bkg	9.000	7.963	8.072	8.054	-0.01742	1.800	%

LSW1 Background	100.0	92.51	91.40	92.33	0.9316	3.000	CPS
LSW2 Background	100.0	83.43	83.34	84.26	0.9205	3.000	CPS
LSW3 Background	200.0	192.3	187.9	191.1	3.168	6.000	CPS
LSW4 Background	250.0	236.2	233.8	236.3	2.507	7.500	CPS
LSW5 Background	600.0	548.3	549.8	545.7	-4.071	18.00	CPS
SSW1 Background	100.0	90.55	90.40	89.15	-1.249	3.000	CPS
SSW2 Background	200.0	155.0	153.1	155.0	1.856	6.000	CPS
SSW3 Background	500.0	433.9	432.3	433.8	1.547	15.00	CPS
SSW4 Background	270.0	232.2	232.5	230.5	-1.957	8.100	CPS
SSW5 Background	200.0	167.8	166.3	164.8	-1.558	6.000	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement

Master: 30-Jun-2009 22:48

LSW1 Aluminum	600.0	554.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	804.9	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	966.0	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	485.4	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	446.3	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2501	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6891	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9659	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3955	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	474.6	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement

Master: 30-Jun-2009 22:48

LSW1 Iron	400.0	378.8	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	651.5	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	856.2	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	445.8	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	411.6	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1825	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5726	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8806	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3618	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	422.6	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

Before: 16-Jul-2009 10:33

HLDS Caliper Small Ring	12.00	N/A	13.30	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	16.70	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 19-Jun-2009 22:52 Before: 12-Aug-2009 13:56 After: 12-Aug-2009 21:13

Na 511 Peak Loc	40.00	39.80	39.59	39.66	0.06936	1.000	
Na 511 Peak Res	15.50	15.76	14.19	14.90	0.7107	2.000	%
High Voltage	1150	1181	1140	1146	6.016	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.4	142.3	-0.04597	7.000	
Na 1785 Peak Res	8.500	8.553	7.826	8.908	1.081	2.000	%
Temperature	15.50	32.22	13.48	13.98	0.5072	N/A	DEGC
Na Count Rate	45.00	37.08	35.47	35.86	0.3936	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 19-Jun-2009 22:52 Before: 12-Aug-2009 13:56 After: 12-Aug-2009 21:13

Na 511 Peak Loc	40.00	39.62	39.52	39.60	0.08389	1.000	
Na 511 Peak Res	15.50	16.69	15.56	14.90	-0.6549	2.000	%
High Voltage	1150	1114	1077	1080	3.066	N/A	V
Na 1785 Peak Loc	142.6	142.4	142.1	141.4	-0.6870	7.000	
Na 1785 Peak Res	8.500	8.478	8.100	8.491	0.3907	2.000	%
Temperature	15.50	32.71	13.74	15.62	1.876	N/A	DEGC
Na Count Rate	45.00	38.14	35.54	36.22	0.6876	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2

Master: 19-Jun-2009 22:52 Before: 12-Aug-2009 13:56 After: 12-Aug-2009 21:13

Coincidence Count Rate Ratio	1.000	0.9751	0.9997	0.9898	-0.009970	0.05000	
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Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting 1733 V
Far Detector Plateau Setting 2077 V
Array Detector Plateau Setting 1966 V

Dual Induction - E / Equipment Identification

Primary Equipment:
Dual Induction Sonde

DIS - HB

129

Dual Induction - E Wellsite Calibration												
Induction Electronics (10 kHz)												
Phase	ID Elect Real Offset 10 kHz	MM/M	Value	Phase	ID Elect Real Gain 10 kHz	Value	Phase	ID Elect Phase 10 kHz	DEG	Value		
Before			29.25	Before		0.9418	Before			8.817		
	-267.4 (Minimum)	32.65 (Nominal)	332.6 (Maximum)		0.7960 (Minimum)	0.9460 (Nominal)	1.124 (Maximum)		-0.5967 (Minimum)	9.403 (Nominal)	19.40 (Maximum)	
Phase	ID Elect Quad Offset 10 kHz	MM/M	Value	Phase	ID Elect Quad Gain 10 kHz	Value	Phase	IM Elect Phase 10 kHz	DEG	Value		
Before			26.32	Before		0.9564	Before			8.609		
	-278.5 (Minimum)	21.47 (Nominal)	321.5 (Maximum)		0.8109 (Minimum)	0.9609 (Nominal)	1.145 (Maximum)		-0.7277 (Minimum)	9.272 (Nominal)	19.27 (Maximum)	
Phase	IM Elect Real Offset 10 kHz	MM/M	Value	Phase	IM Elect Real Gain 10 kHz	Value						
Before			82.96	Before		0.9496						
	-465.7 (Minimum)	84.34 (Nominal)	634.3 (Maximum)		0.8034 (Minimum)	0.9534 (Nominal)	1.134 (Maximum)					
Phase	IM Elect Quad Offset 10 kHz	MM/M	Value	Phase	IM Elect Quad Gain 10 kHz	Value						
Before			43.75	Before		0.9309						
	-505.4 (Minimum)	44.57 (Nominal)	594.6 (Maximum)		0.7864 (Minimum)	0.9364 (Nominal)	1.110 (Maximum)					

Before: 12-Aug-2009 15:39

Dual Induction - E Wellsite Calibration												
Induction Electronics (20 kHz)												
Phase	ID Elect Real Offset 20 kHz	MM/M	Value	Phase	ID Elect Real Gain 20 kHz	Value	Phase	ID Elect Phase 20 kHz	DEG	Value		
Before			11.58	Before		0.9691	Before			3.741		
	-112.1 (Minimum)	12.92 (Nominal)	137.9 (Maximum)		0.8195 (Minimum)	0.9695 (Nominal)	1.157 (Maximum)		-10.06 (Minimum)	4.941 (Nominal)	19.94 (Maximum)	
Phase	ID Elect Quad Offset 20 kHz	MM/M	Value	Phase	ID Elect Quad Gain 20 kHz	Value	Phase	IM Elect Phase 20 kHz	DEG	Value		
Before			10.65	Before		0.9866	Before			4.132		
	-116.3 (Minimum)	8.664 (Nominal)	133.7 (Maximum)		0.8375 (Minimum)	0.9875 (Nominal)	1.182 (Maximum)		-9.662 (Minimum)	5.338 (Nominal)	20.34 (Maximum)	
Phase	IM Elect Real Offset 20 kHz	MM/M	Value	Phase	IM Elect Real Gain 20 kHz	Value						
Before			34.04	Before		0.9929						
	-190.4 (Minimum)	34.62 (Nominal)	259.6 (Maximum)		0.8410 (Minimum)	0.9910 (Nominal)	1.187 (Maximum)					
Phase	IM Elect Quad Offset 20 kHz	MM/M	Value	Phase	IM Elect Quad Gain 20 kHz	Value						
Before			18.10	Before		0.9733						
	-206.6 (Minimum)	18.45 (Nominal)	243.4 (Maximum)		0.8231 (Minimum)	0.9731 (Nominal)	1.162 (Maximum)					

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Dual Induction - E Wellsite Calibration												
Induction Electronics (40 kHz)												
Phase	ID Elect Real Offset 40 kHz	MM/M	Value	Phase	ID Elect Real Gain 40 kHz	Value	Phase	ID Elect Phase 40 kHz	DEG	Value		
Before			7.526	Before		0.9485	Before			13.77		
	-76.50 (Minimum)	8.503 (Nominal)	93.50 (Maximum)		0.8112 (Minimum)	0.9612 (Nominal)	1.145 (Maximum)		-3.044 (Minimum)	16.96 (Nominal)	36.96 (Maximum)	
Phase	ID Elect Quad Offset 40 kHz	MM/M	Value	Phase	ID Elect Quad Gain 40 kHz	Value	Phase	IM Elect Phase 40 kHz	DEG	Value		
Before			7.084	Before		0.9746	Before			13.58		
	-79.21 (Minimum)	5.786 (Nominal)	90.79 (Maximum)		0.8370 (Minimum)	0.9870 (Nominal)	1.182 (Maximum)		-3.281 (Minimum)	16.72 (Nominal)	36.72 (Maximum)	
Phase	IM Elect Real Offset 40 kHz	MM/M	Value	Phase	IM Elect Real Gain 40 kHz	Value						
Before			21.84	Before		0.9896						
	-107.6 (Minimum)	22.42 (Nominal)	152.4 (Maximum)		0.8470 (Minimum)	0.9970 (Nominal)	1.196 (Maximum)					
Phase	IM Elect Quad Offset 40 kHz	MM/M	Value	Phase	IM Elect Quad Gain 40 kHz	Value						
Before			11.70	Before		0.9697						
	-118.0 (Minimum)	12.02 (Nominal)	142.0 (Maximum)		0.8285 (Minimum)	0.9785 (Nominal)	1.170 (Maximum)					

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Dual Induction - E Wellsite Calibration

SFL Electronics

Phase	SFL Voltage Offset MV	Value	Phase	SFL Voltage Gain	Value
Before		0.1079	Before		0.9937
	-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	
Phase	SFL Current Offset MA	Value	Phase	SFL Current Gain	Value
Before		0.03102	Before		1.004
	-0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

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Dual Induction - E Wellsite Calibration

Electronics Calibration Changes Files/Depth Intervals: 62: 2123.7 - 2682.7 63: 2711.2 - 2644.3 64: 2711.2 - 1954.2

Phase	ID (R > 27 OHM-M) MM/M	Value	Phase	ID (R < 27 OHM-M) %	Value	Phase	SFL (R < 1 OHM-M) OHMM	Value
After		0	After		0.0001644	After		0.0008160
	0 (Minimum) 0 (Nominal) 0.7500 (Maximum)			0 (Minimum) 0 (Nominal) 2.000 (Maximum)			0 (Minimum) 0 (Nominal) 0.02000 (Maximum)	
Phase	IM (R > 27 OHM-M) MM/M	Value	Phase	IM (R < 27 OHM-M) %	Value			
After		0	After		0.0001246			
	0 (Minimum) 0 (Nominal) 0.7500 (Maximum)			0 (Minimum) 0 (Nominal) 2.000 (Maximum)				
Phase	SFL (R > 27 OHM-M) MM/M	Value	Phase	SFL (R < 27 OHM-M) %	Value			
After		0	After		0			
	0 (Minimum) 0 (Nominal) 0.7500 (Maximum)			0 (Minimum) 0 (Nominal) 2.000 (Maximum)				

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General Purpose Inclinomter / Equipment Identification

Primary Equipment:		
GPIT Cartridge - A	GPIC - A	719
Auxiliary Equipment:		
GPIT Housing	GPIH - A	2864

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:		
Accelerator-Porosity Sonde	APS - C	22
APS Minitron	MNTR - F	5589
Auxiliary Equipment:		
Accelerator-Porosity Housing	APH - AC	22
APS Calibration Water Tank	SFT - 178	2
APS Aluminum Calibrator Sleeve	SFT - 281	2

Accelerator-Porosity Tool Wellsite Calibration

Detector Background

Phase	Near Det Bkg Cntrate CPS	Value	Phase	Far Det Bkg Cntrate CPS	Value	Phase	Array-1 Det Bkg Cntrate CPS	Value
Master		32.09	Master		31.69	Master		28.61
Before		33.10	Before		32.62	Before		28.03
After		31.38	After		32.92	After		28.55
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	
Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value			
Master		30.40	Master		32.33			
Before		30.80	Before		33.40			
After		29.51	After		32.33			
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				

Accelerator-Porosity Tool Wellsite Calibration											
Calibration Ratios											
Phase	Near/Far Calibration Ratio		Value	Phase	Near/Array Calibration Ratio		Value	Phase	Near/Array Cal Ratio Up/Down		Value
Master			0.8852	Master			1.059	Master			1.008
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)		0.9000 (Minimum)	1.030 (Nominal)	1.170 (Maximum)		0.9700 (Minimum)	1.000 (Nominal)	1.030 (Maximum)

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Accelerator-Porosity Tool Wellsite Calibration											
Tank Check											
Phase	Array-1 Standoff Porosity PU		Value	Phase	Array-2 Standoff Porosity PU		Value	Phase	Average Slowing Down Time US		Value
Master			11.81	Master			11.56	Master			5.860
	9.900 (Minimum)	11.75 (Nominal)	13.60 (Maximum)		9.900 (Minimum)	11.75 (Nominal)	13.60 (Maximum)		5.500 (Minimum)	6.000 (Nominal)	6.250 (Maximum)
Phase	Array-1 SDT Ratio Up/Down		Value	Phase	Array-2 SDT Ratio Up/Down		Value	Phase	Sigma Formation CU		Value
Master			0.9891	Master			1.006	Master			27.25
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		20.00 (Minimum)	27.50 (Nominal)	35.00 (Maximum)

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Hostile Litho-Density Sonde / Equipment Identification			
Primary Equipment:			
Hostile Litho Density Sonde	HLDS - D	57	
Hostile Litho Density High Voltage	HLDV - D	51	
Gamma Source Radioactive	GSR - Z	2397	
Auxiliary Equipment:			
Hostile Litho Density Pad	HLDP - C	61	
Hostile Litho Density High Voltage Housi	HEH - H	53	

Hostile Litho-Density Sonde Wellsite Calibration											
Background Measurement											
Phase	SS Cs Resolution Bkg %		Value	Phase	LS Cs Resolution Bkg %		Value	Phase	LSW1 Background CPS		Value
Master			7.767	Master			7.963	Master			92.51
Before			7.760	Before			8.072	Before			91.40
After			7.668	After			8.054	After			92.33
	7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)		7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)		55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)
Phase	LSW2 Background CPS		Value	Phase	LSW3 Background CPS		Value	Phase	LSW4 Background CPS		Value
Master			83.43	Master			192.3	Master			236.2
Before			83.34	Before			187.9	Before			233.8
After			84.26	After			191.1	After			236.3
	50.00 (Minimum)	100.0 (Nominal)	140.0 (Maximum)		110.0 (Minimum)	200.0 (Nominal)	290.0 (Maximum)		140.0 (Minimum)	250.0 (Nominal)	360.0 (Maximum)
Phase	LSW5 Background CPS		Value	Phase	SSW1 Background CPS		Value	Phase	SSW2 Background CPS		Value
Master			548.3	Master			90.55	Master			155.0
Before			549.8	Before			90.40	Before			153.1
After			545.7	After			89.15	After			155.0
	330.0 (Minimum)	600.0 (Nominal)	830.0 (Maximum)		55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)		100.0 (Minimum)	200.0 (Nominal)	260.0 (Maximum)
Phase	SSW3 Background CPS		Value	Phase	SSW4 Background CPS		Value	Phase	SSW5 Background CPS		Value
Master			433.9	Master			232.2	Master			167.8
Before			432.3	Before			232.5	Before			166.3
After			433.8	After			230.5	After			164.8
	280.0 (Minimum)	500.0 (Nominal)	700.0 (Maximum)		150.0 (Minimum)	270.0 (Nominal)	380.0 (Maximum)		110.0 (Minimum)	200.0 (Nominal)	270.0 (Maximum)

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After: 12-Aug-2009 21:13

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment: LDSC Cartridge	LDSC - B	326
Auxiliary Equipment: LDSC Housing	LDSH - A	319

Hostile Natural Gamma Ray Cartridge - B / Equipment Identification

Primary Equipment: HNGC Cartridge	HNGC - B	300
Auxiliary Equipment: HNGC Housing	HNGH - A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment: HNGS Sonde	HNGS - BA	194
Auxiliary Equipment: HNGS Sonde Housing Gamma Source Radioactive	HNSH - BA GSR - U	205 616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.80	Master		15.76	Master		1181
Before		39.59	Before		14.19	Before		1140
After		39.66	After		14.90	After		1146
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		142.6	Master		8.553	Master		32.22
Before		142.4	Before		7.826	Before		13.48
After		142.3	After		8.908	After		13.98
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		37.08						
Before		35.47						
After		35.86						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							

Master: 19-Jun-2009 22:52









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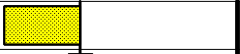

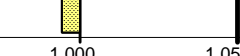
After: 12-Aug-2009 21:13

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.62	Master		16.69	Master		1114
Before		39.52	Before		15.56	Before		1077
After		39.60	After		14.90	After		1080
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		142.4	Master		8.478	Master		32.71
Before		142.1	Before		8.100	Before		13.74

After				After		After					
135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	141.4	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	8.491	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)	15.62
Phase	Na Count Rate CPS		Value								
Master			38.14								
Before			35.54								
After			36.22								
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)									
Master: 19-Jun-2009 22:52				Before: 12-Aug-2009 13:56				After: 12-Aug-2009 21:13			

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9751
Before		0.9997
After		0.9898
0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 19-Jun-2009 22:52		
Before: 12-Aug-2009 13:56		
After: 12-Aug-2009 21:13		

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge
DTC-H Telemetry Cartridge

DTCH - A
DTCH - A 8798

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC 2304

Company: Lamont Doherty

Schlumberger

Well: Expedition 323 Site U1343E

Field: Bering Sea

Rig: JOIDES Resolution

Country: USA

Phasor Induction (DIT)
Natural Gamma Spectroscopy