

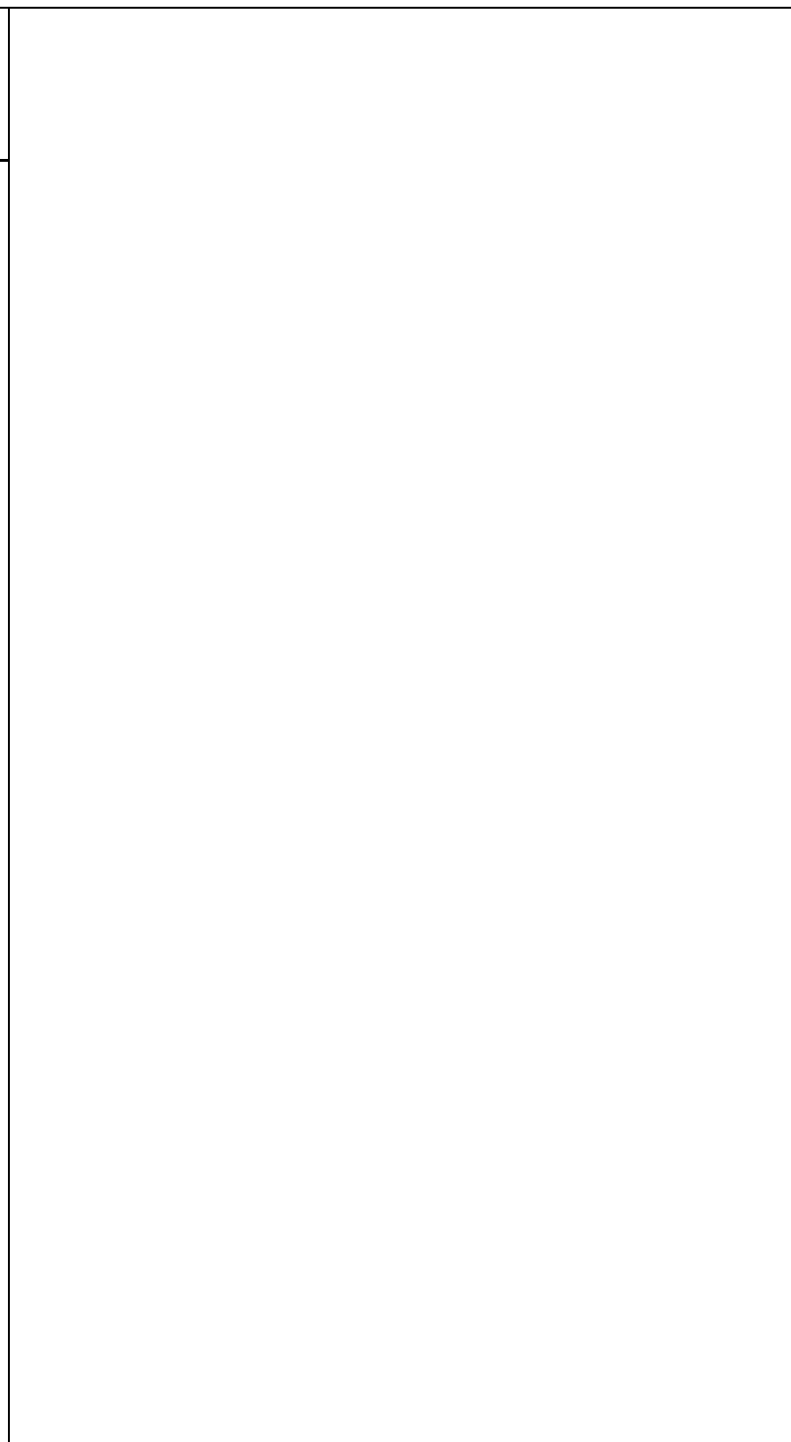
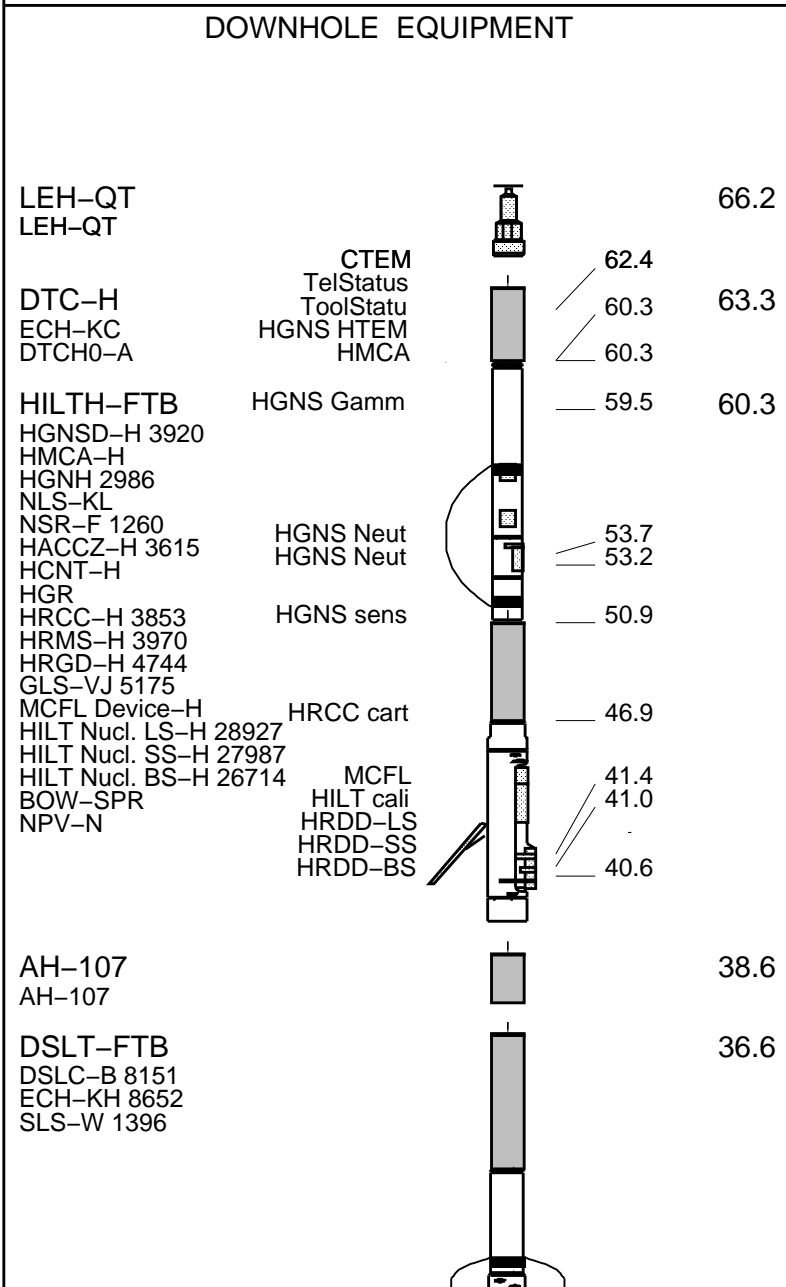
OTHER SERVICES1	OTHER SERVICES2
OS1: BHC	OS1:
OS2: CALIPER PRINT	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
1. Tool ras as per tool sketch.	
2. HGNS ran eccentralized using a bowspring, AIT ran eccentralized usig 3	x 1.5in standoffs
3. DSLT ran centralized using 2 x CMEZs	
4. Neutron log corrected for Hole Size and Standoff	
5. Density log corrected for Bit Size	
6. PEF flags < 10% Log computed with NMT=NonBarite	
7. Max temperature reading 249degF obtained from HGNS	

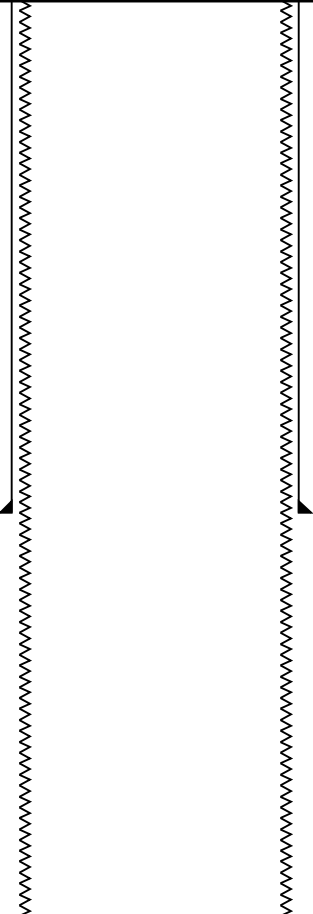
8. Matrix=SANDSTONE Density=2.68g/cc	
9. Sonic firing rate set at R15	
10. Sonic Porosity calculated using SANDSTONE matrix (55.5us/ft)	
11. Cement Volume calculated assuming future casing diameter of 4.5in	
12. Caliper check in casing within tolerance=9.625in+/-0.125in	
13. Logging speed less than 3600 ft/hr	
14. Bit sizes changes: from TD to 8634ft=7.875in and from 8634ft to surface 8.75in	
15. Tight Hole conditions may affect data	

RUN 1			RUN 2		
SERVICE ORDER #:	bfjt-00033		SERVICE ORDER #:		
PROGRAM VERSION:	18C0-147		PROGRAM VERSION:		
FLUID LEVEL:	25 ft		FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT
WITM (DTS)-A
GSR-U/Y
NCT-B
CNB-AB
NCS-VB



Production String	(in)		(ft)	Well Schematic		(ft)	(in)		Casing String
	OD	ID	MD			MD	OD	ID	
						0.0 0.0	9.625 8.750		Casing String, 36.0 lbm/ft Borehole Segment
						3760.0	9.625		Casing Shoe

Segment	Start Depth (m)	End Depth (m)	Segment Length (m)	Segment Volume (m³)	Segment Weight (kg)	Segment Description
Borehole Segment Bottom	8634.0	8634.0	0.0	0.0	0.0	
Borehole Segment	8634.0	8634.0	0.0	0.0	0.0	
Borehole Segment	12160.0	12160.0	0.0	0.0	0.0	
Borehole Segment Bottom	12160.0	12160.0	0.0	0.0	0.0	

All Depths are Driller's Depths



MAIN PASS

MAXIS Field Log

Company: Puckett Land Company

Well: RG Federal 4D-34D

Input DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_009LUP	FN:8	PRODUCER	15-Feb-2011 19:25
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Output DLIS Files

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DEFAULT      AIT_SONIC_TLD_MCFL_104PUP  FN:17  PRODUCER  15-Feb-2011 22:29

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OP System Version: 18C0-147

HAIT-H	18C0-147	DSLT-FTB	18C0-147
HILTH-FTB	18C0-147	DTC-H	18C0-147

Changed Parameter Summary

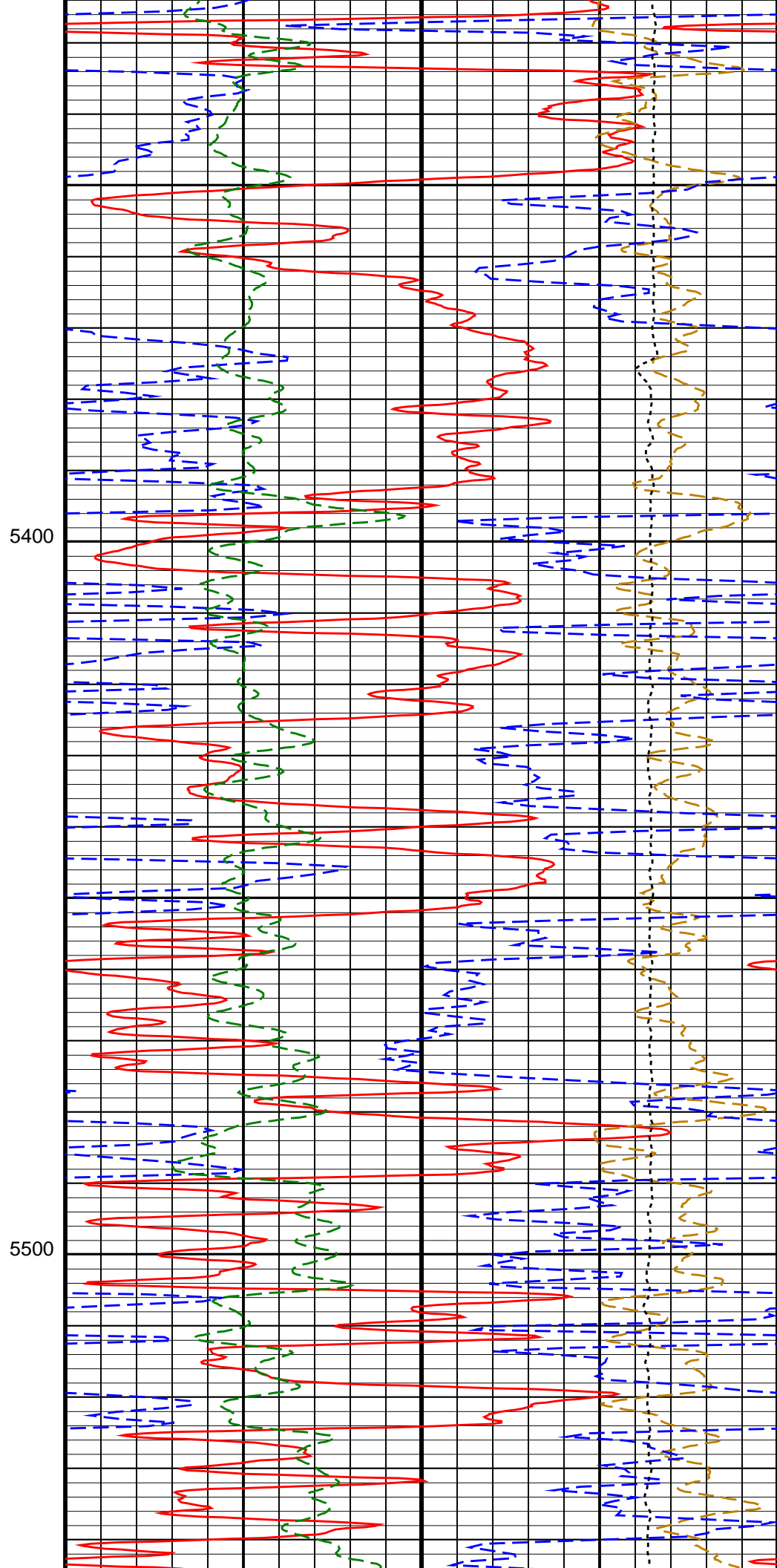
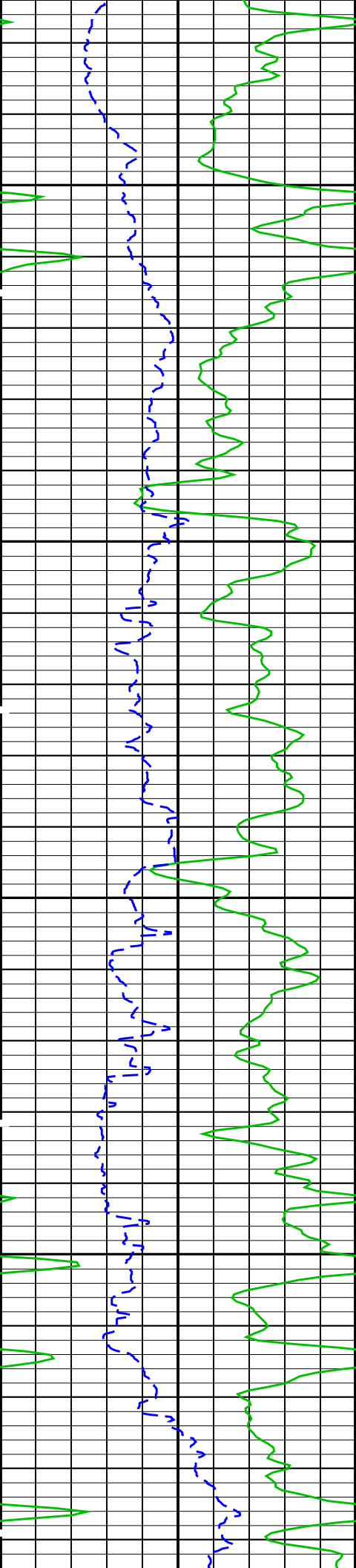
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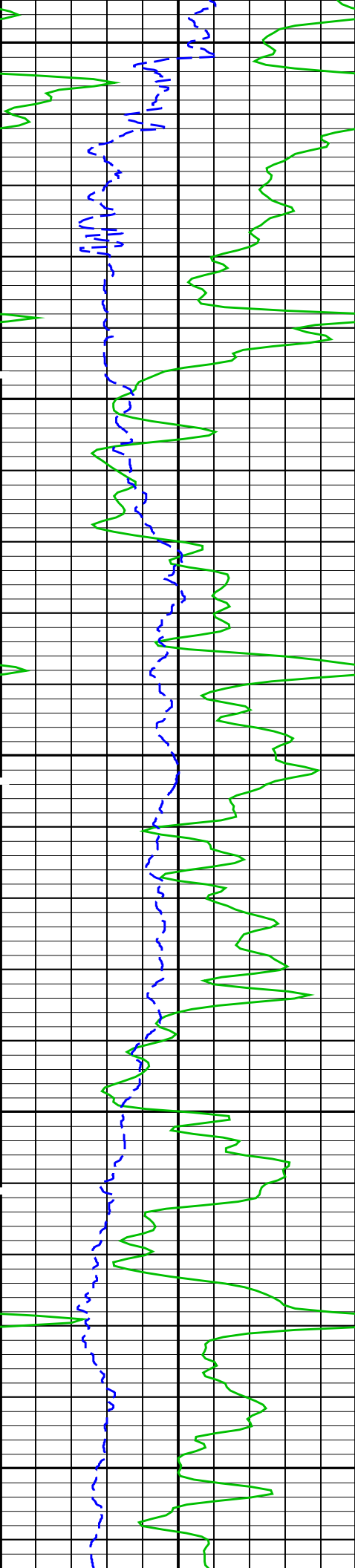
PIP SUMMARY

		Tension (TENS) (LBF)	
		10000	0
	Tool/Tot. Drag From D3T to STIA	Std. Res. Formation Pe (PEFZ) (-----)	Density Correction (HDRA) (G/C3)
		0 10	-0.25 0.25
HILT Caliper (HCAL) (IN)	Cable Drag From STIA to STIT	Alpha Processed Neutron Porosity (NPOR) (V/V)	
6 16		0.3 -0.1	
Gamma Ray (GR) (GAPI)	Stuck Stretch (STIT)	Std. Res. Density Porosity (DPHZ) (V/V)	
0 150	0 (F) 50	0.3 -0.1	

5200

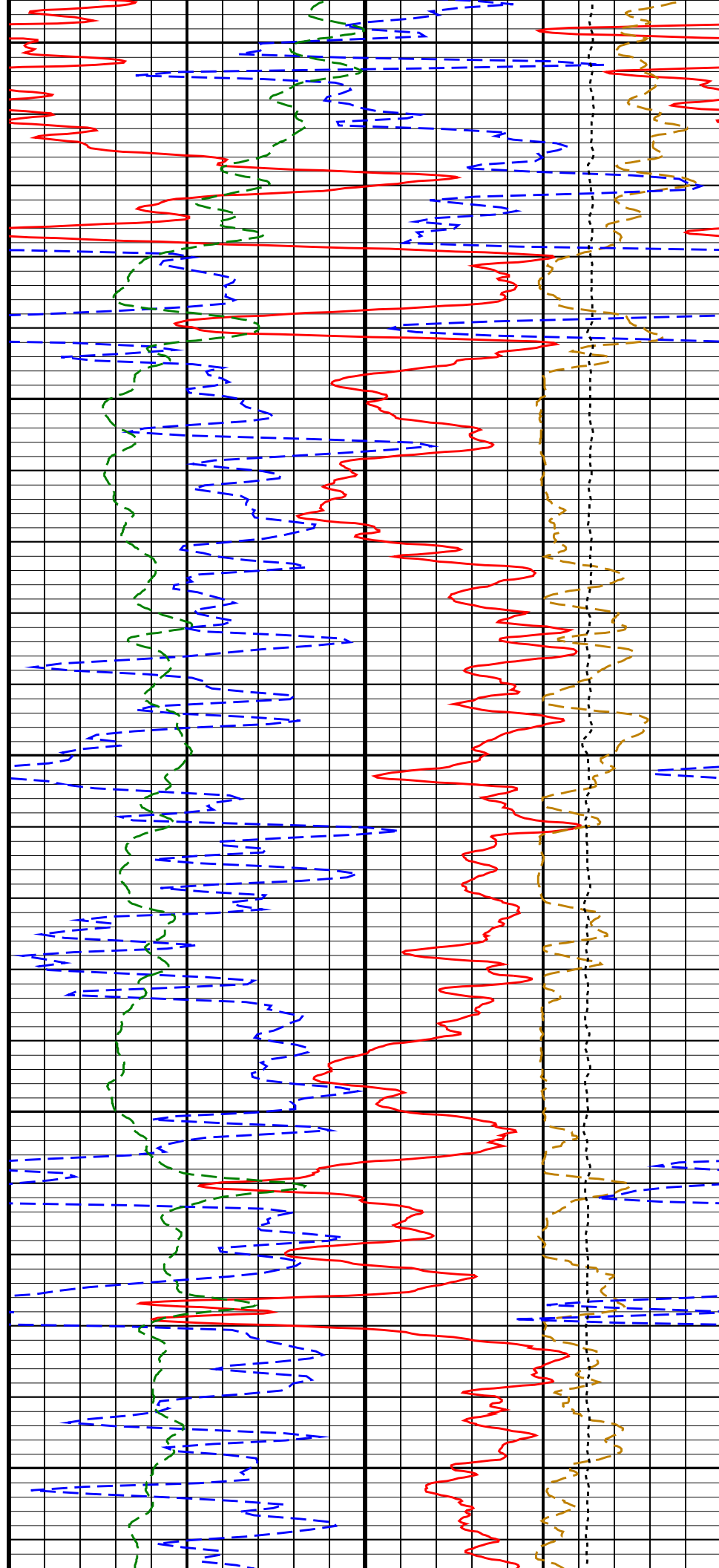
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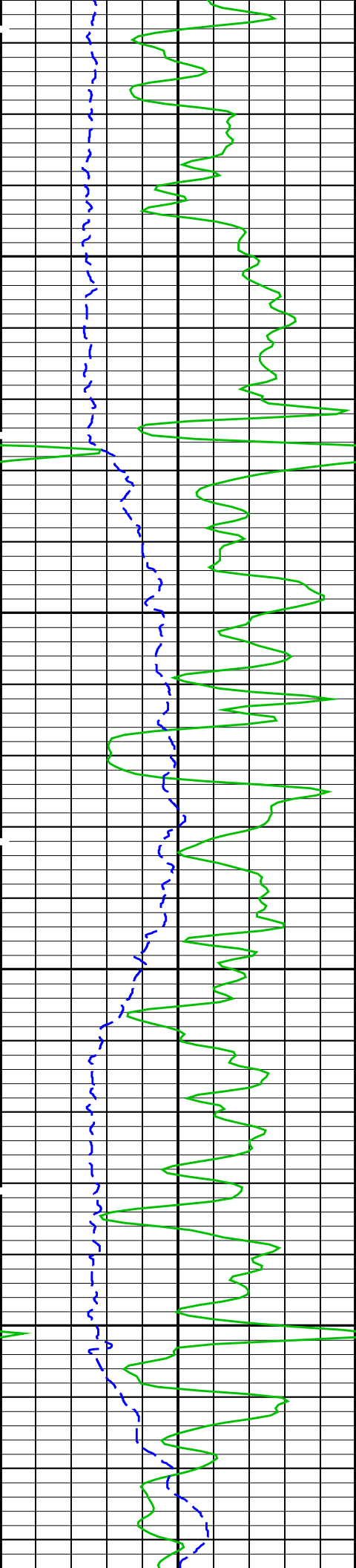




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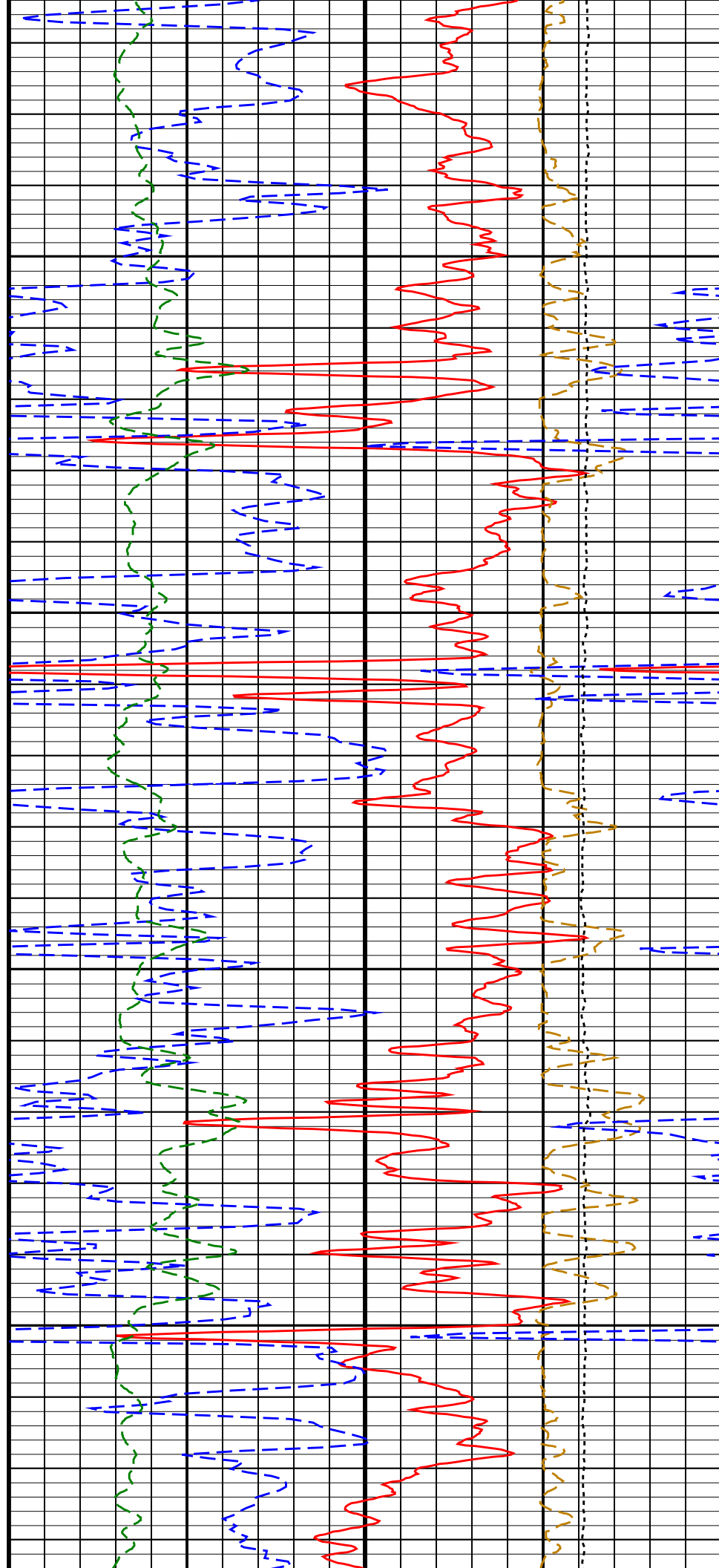
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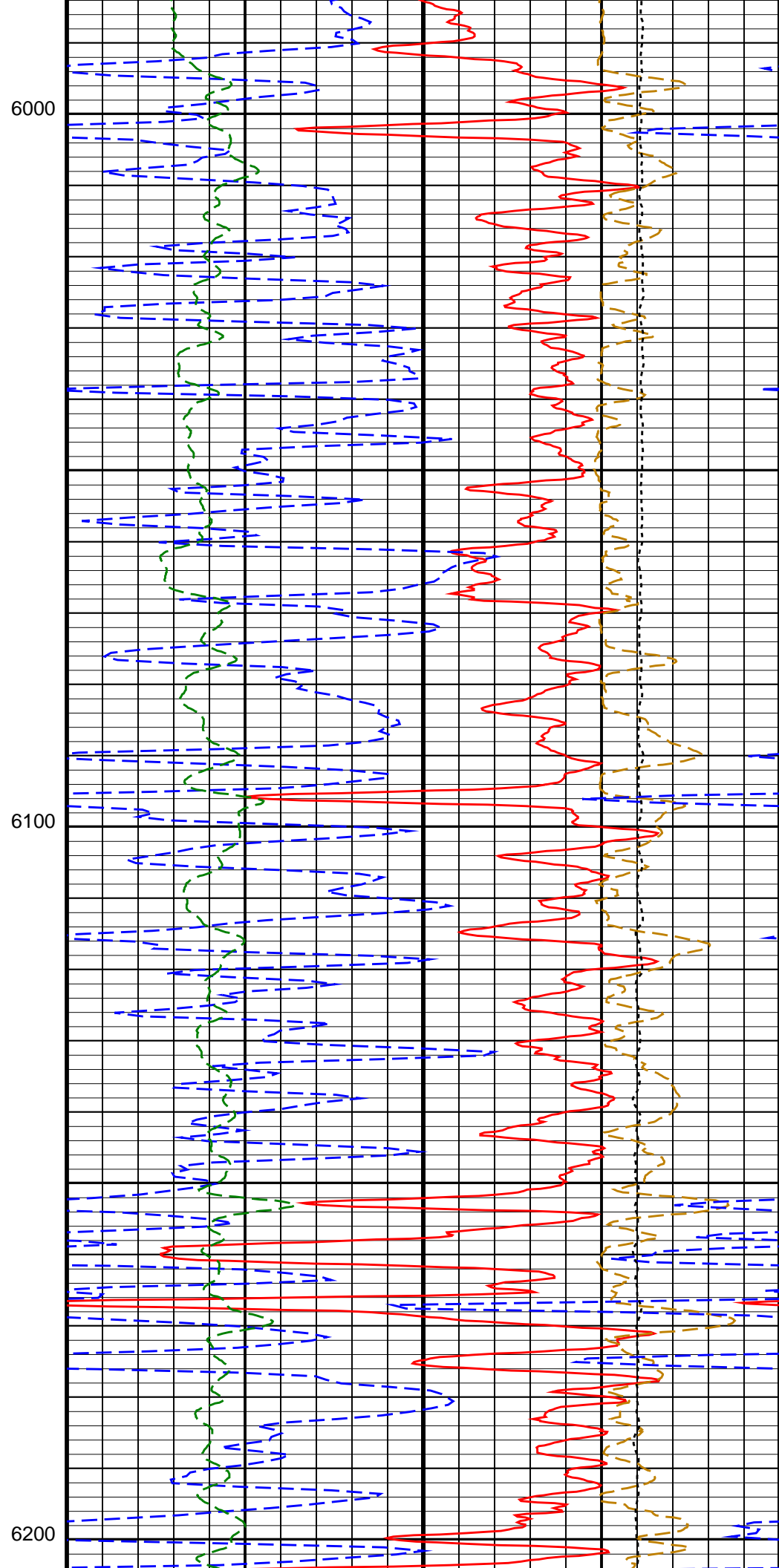
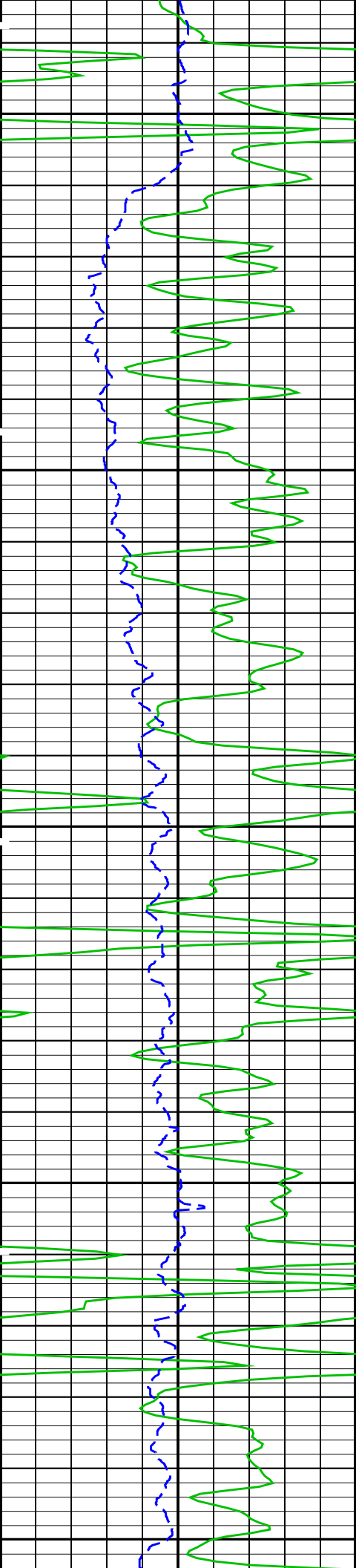


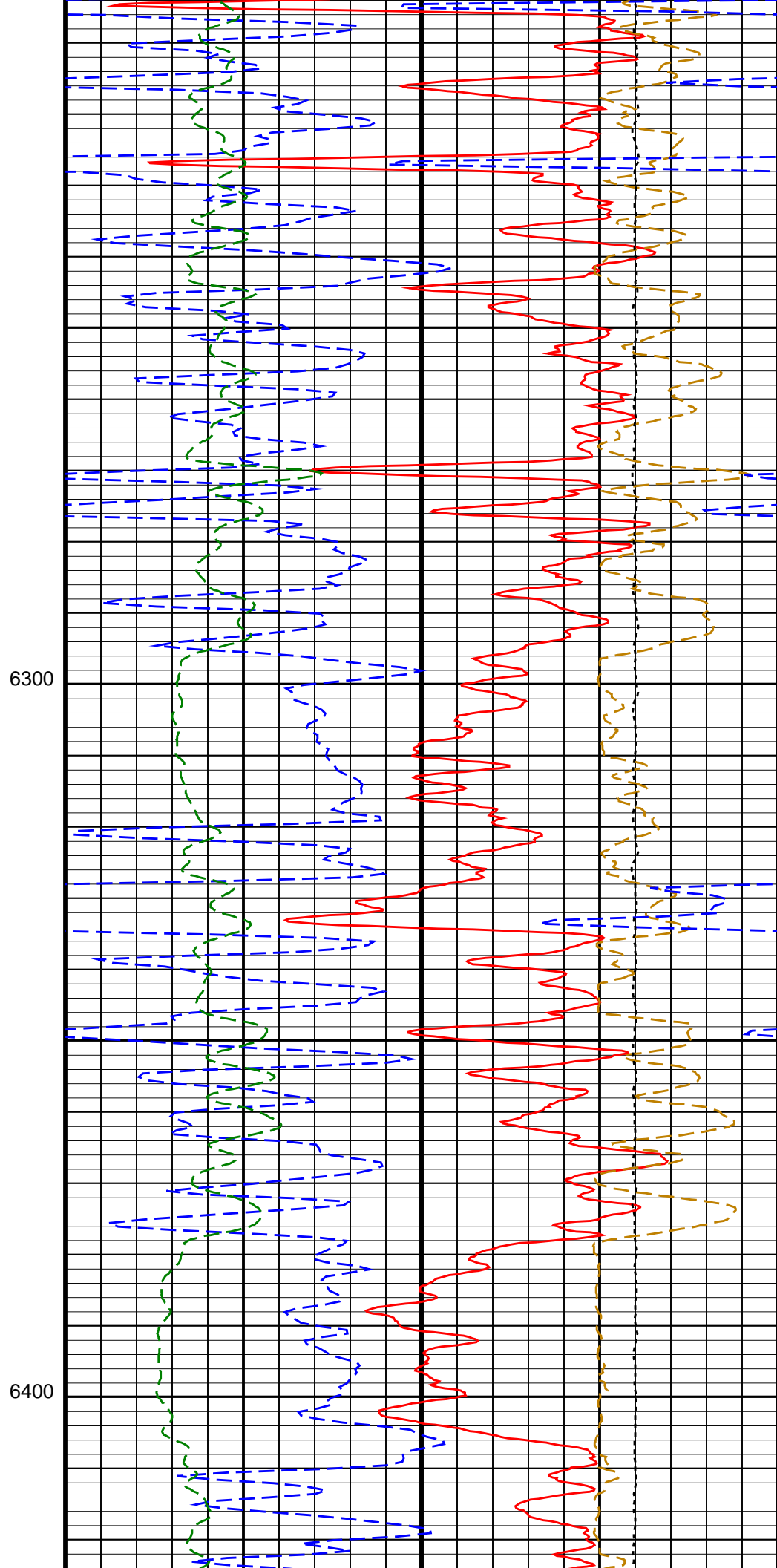
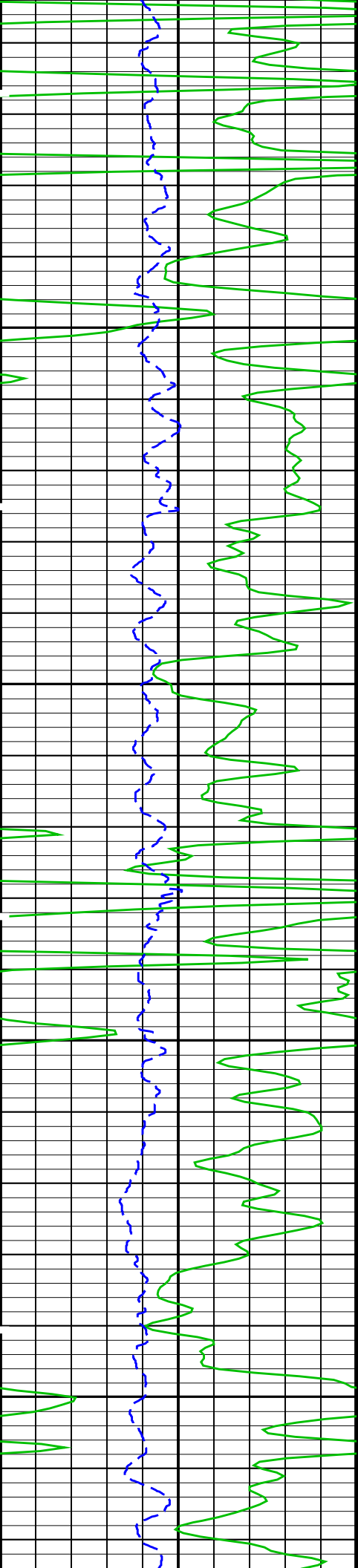


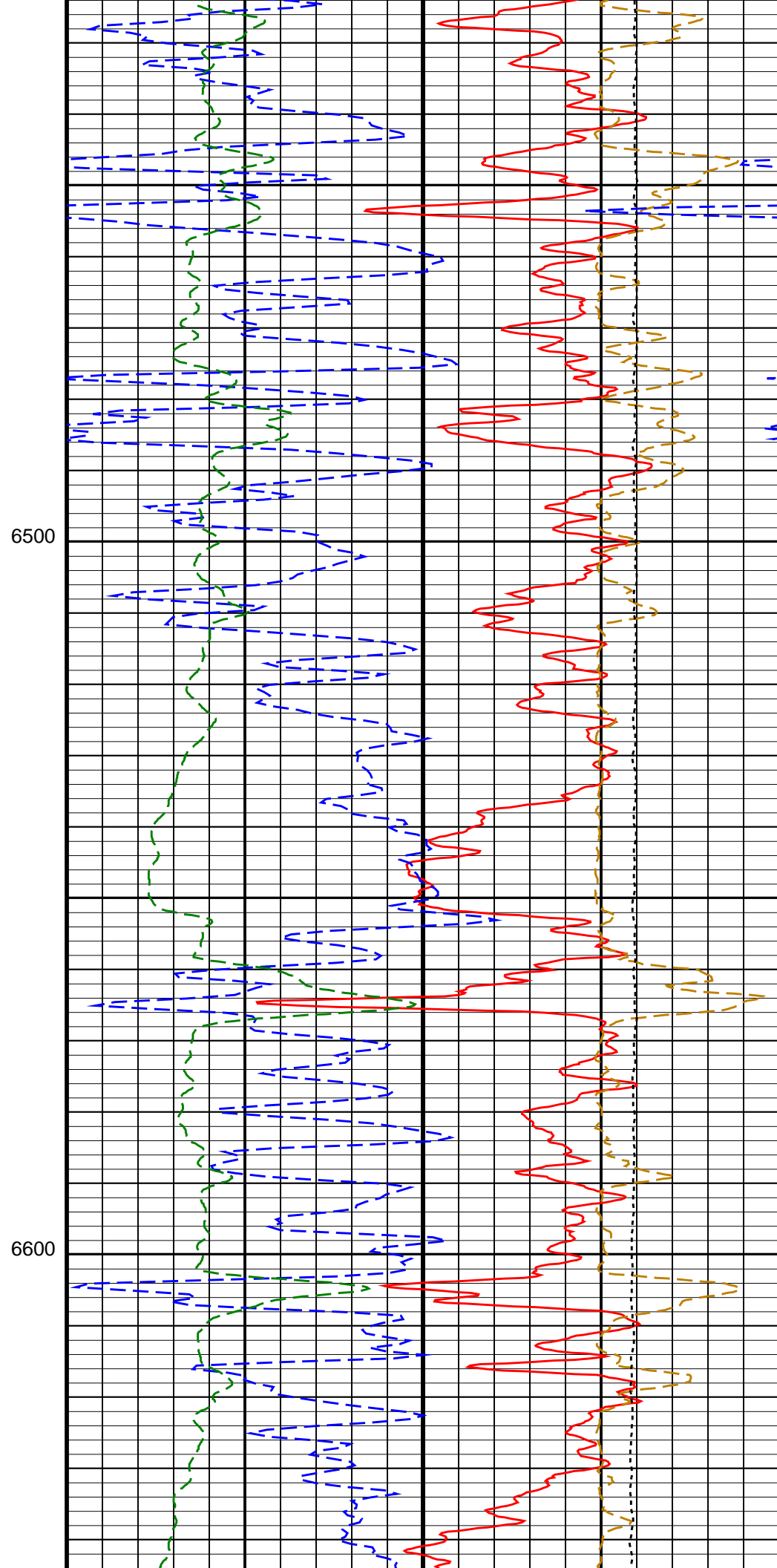
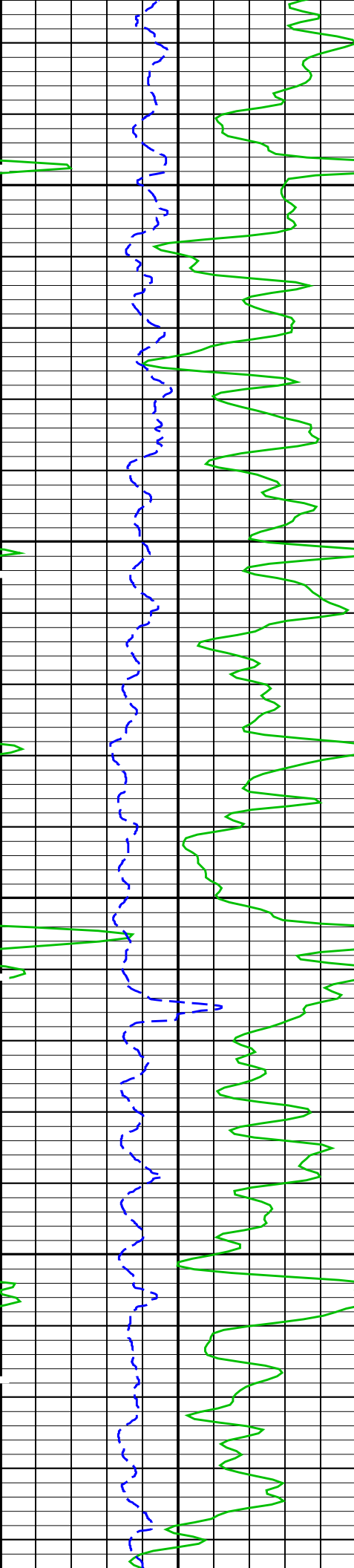
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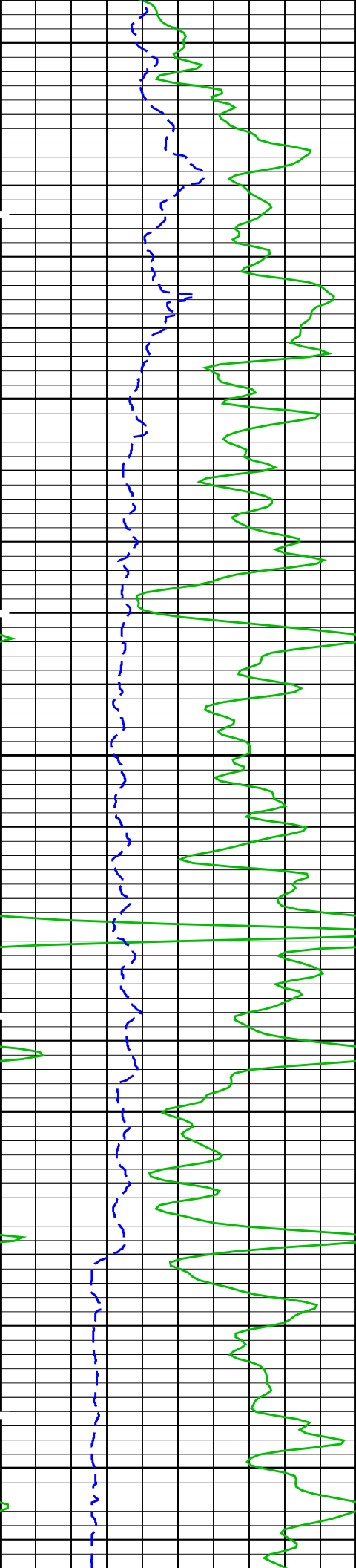
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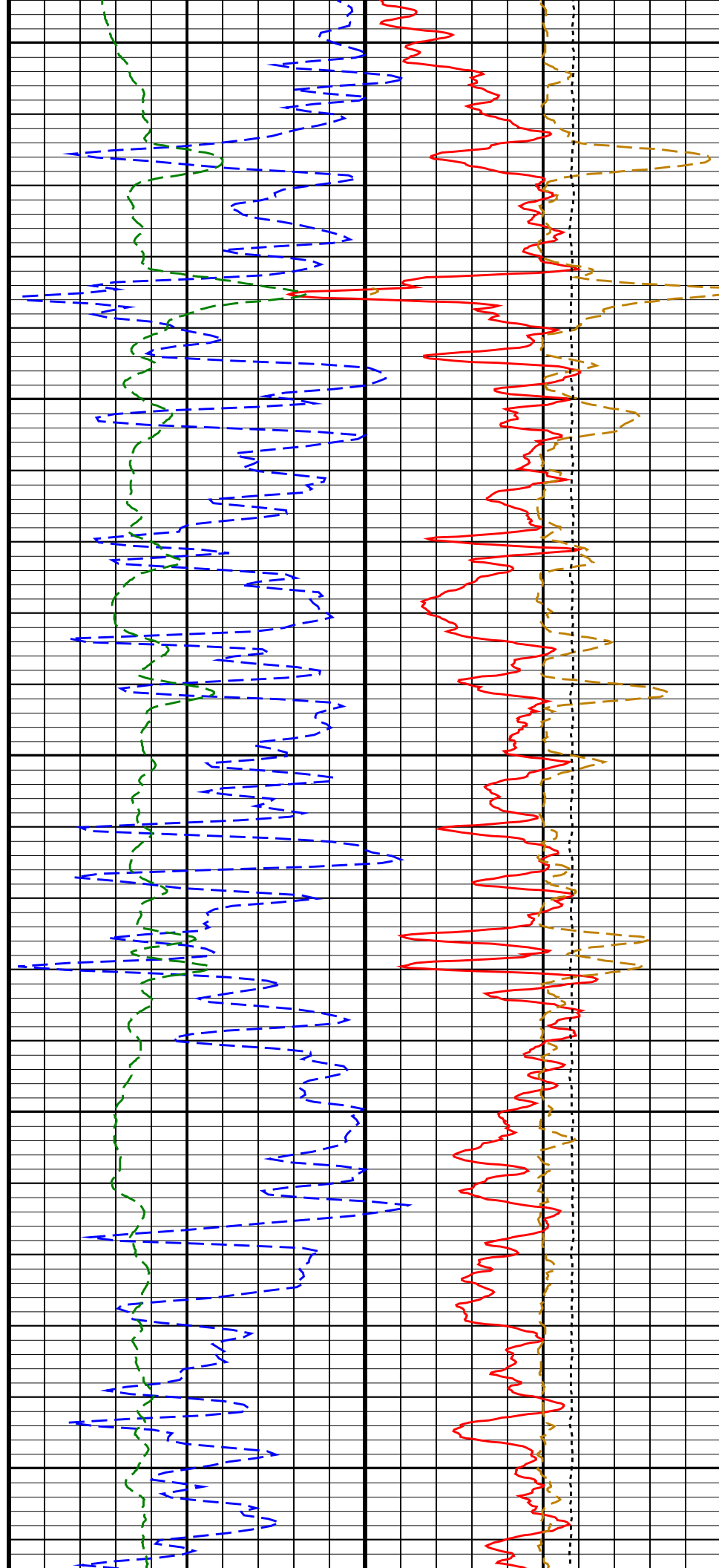


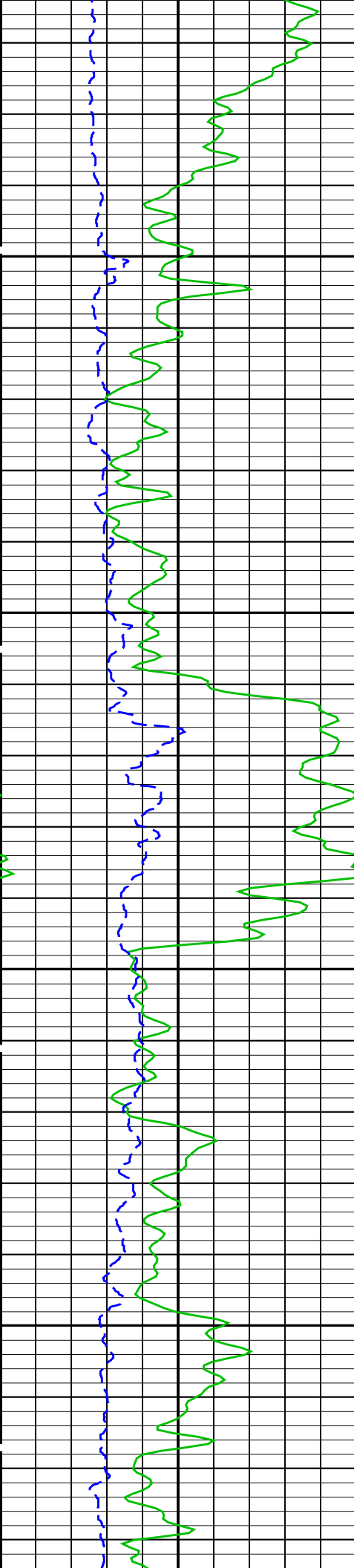




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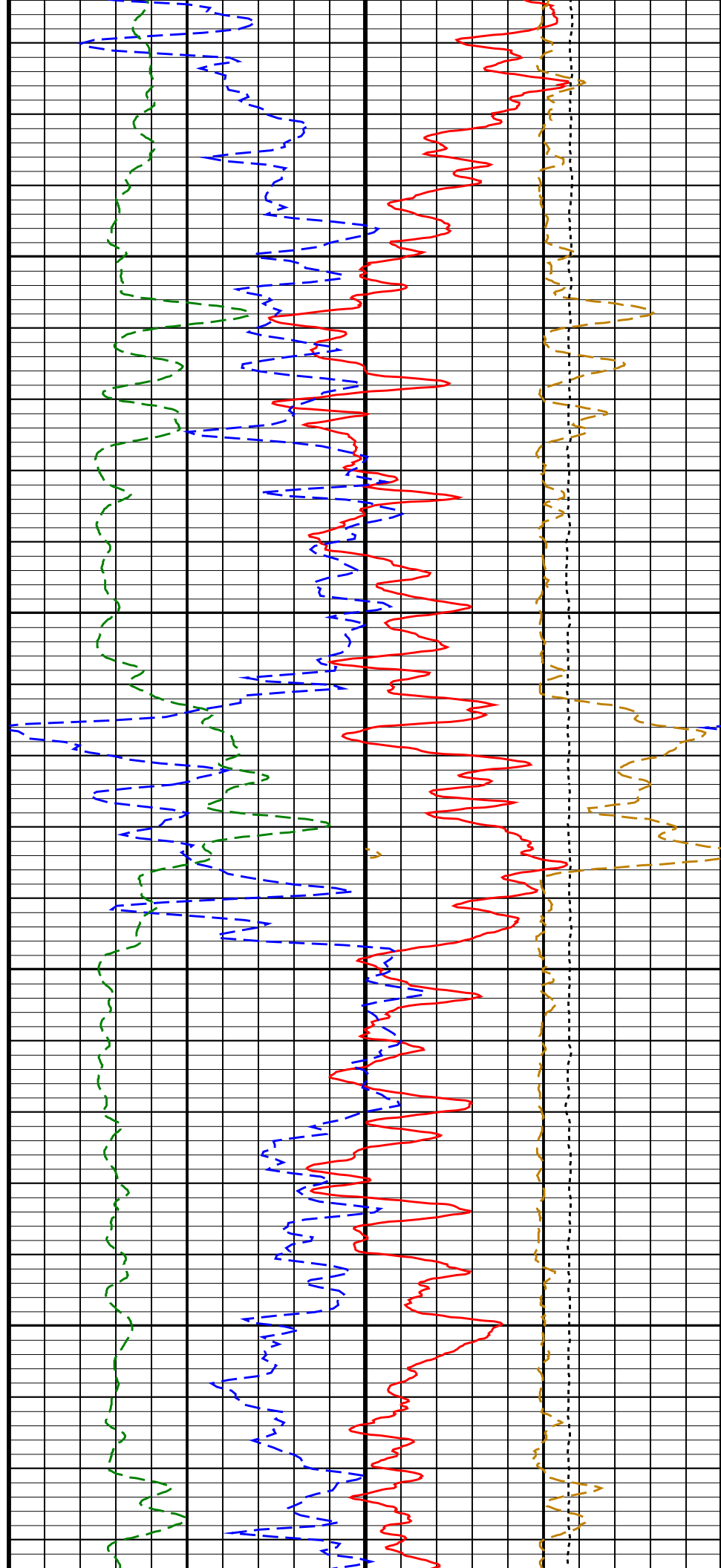
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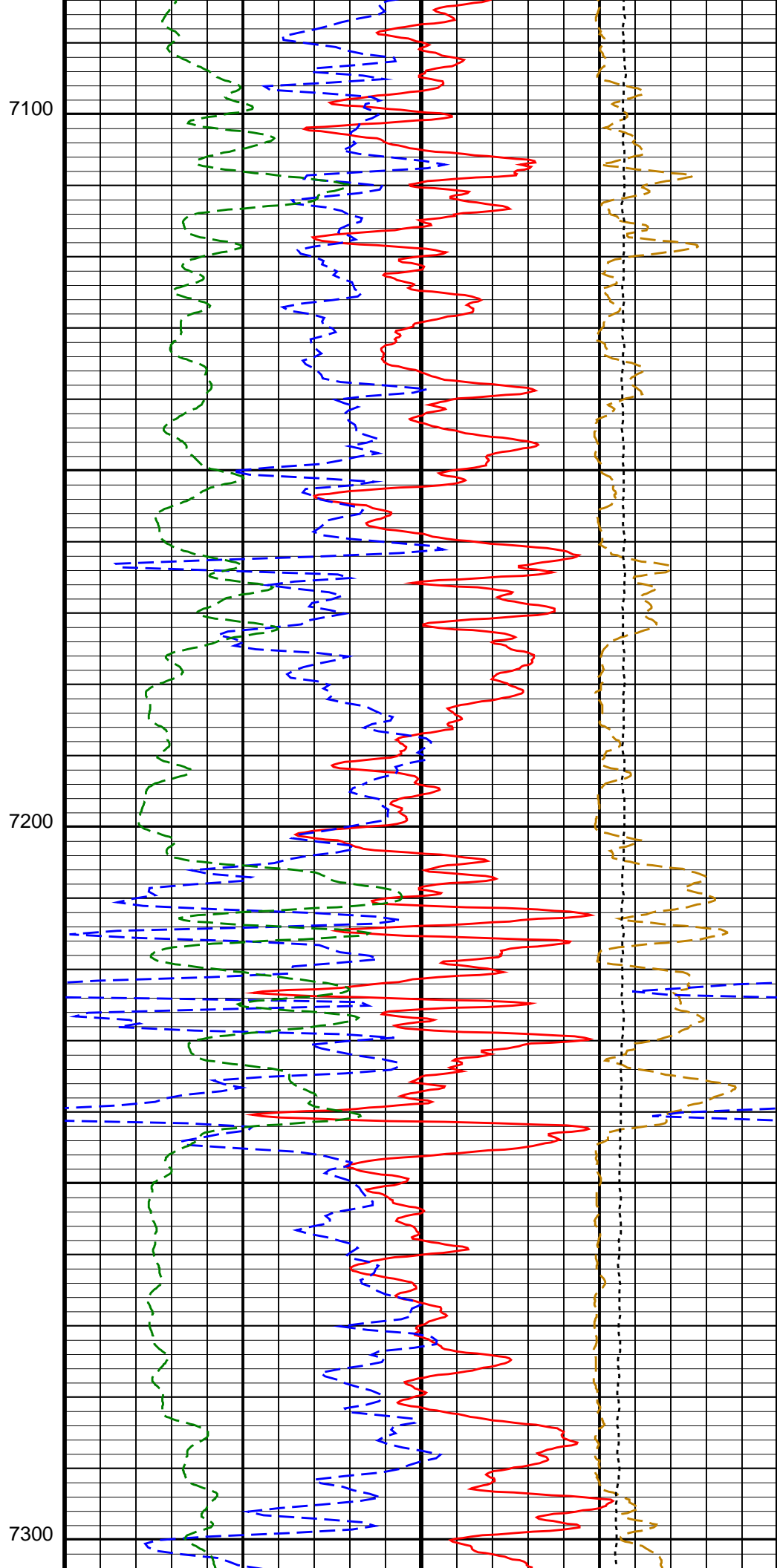
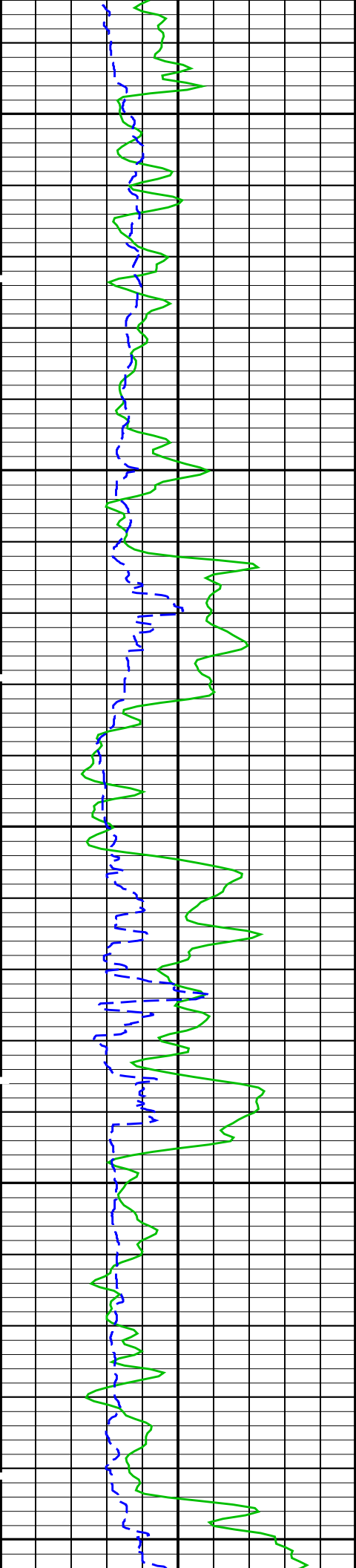


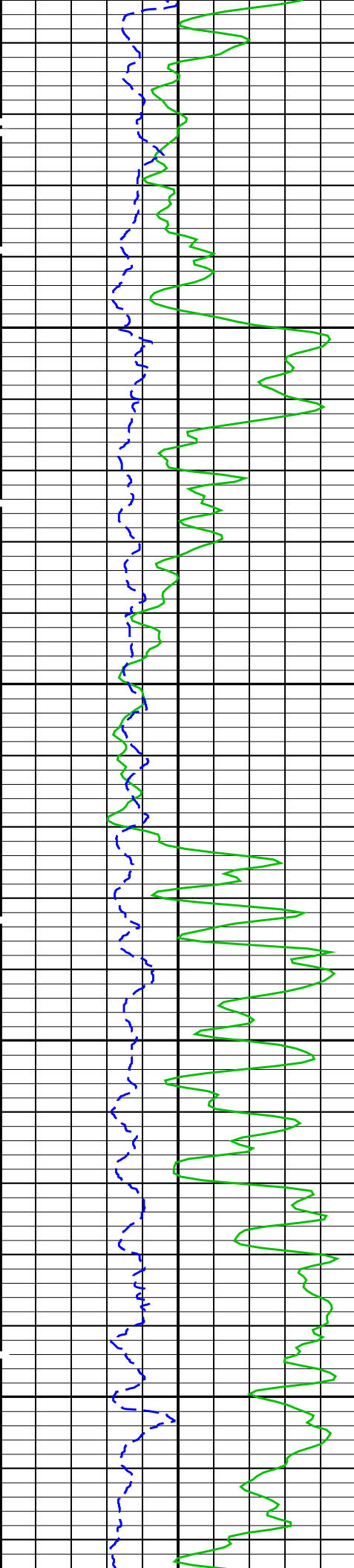


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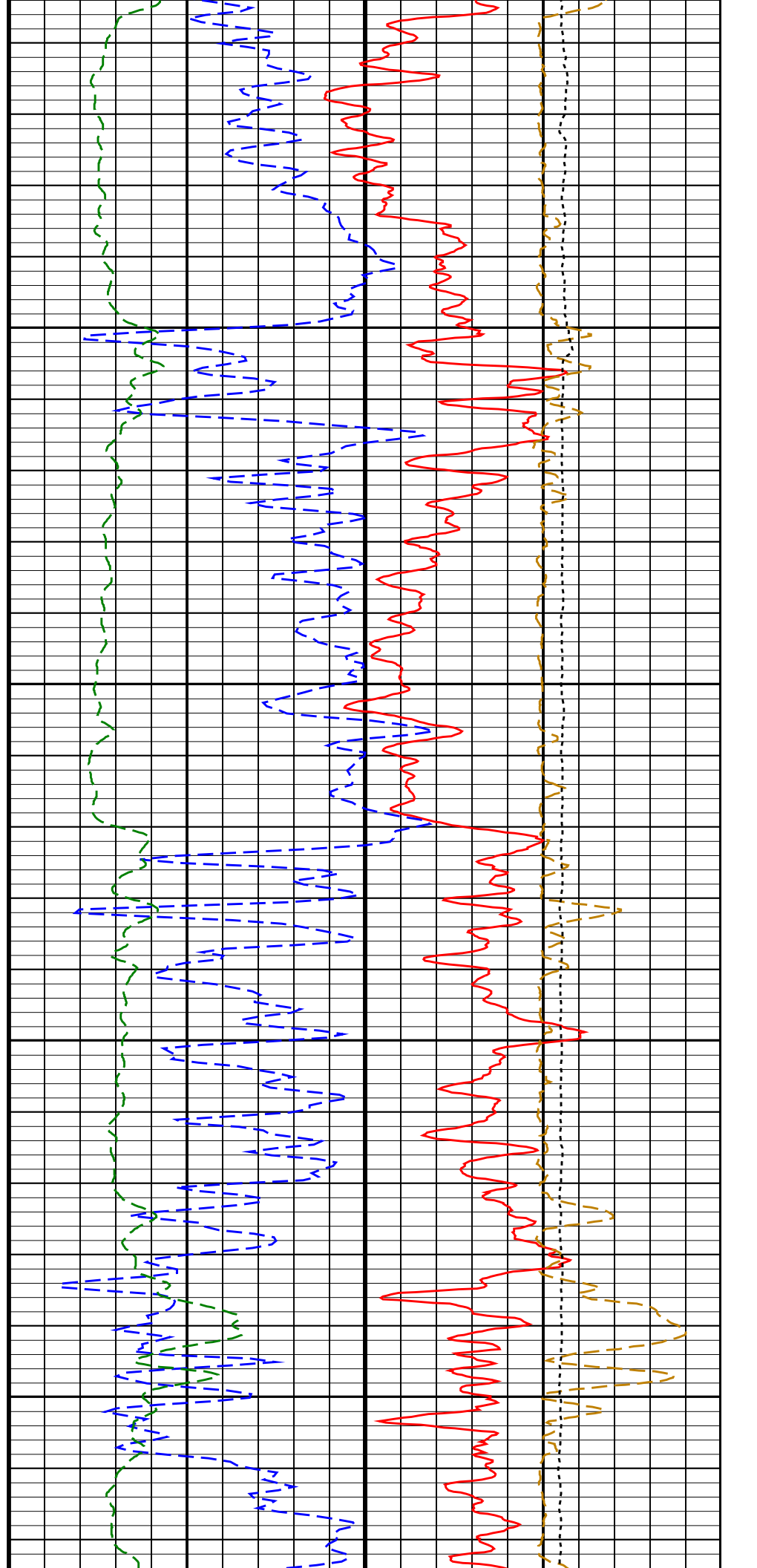


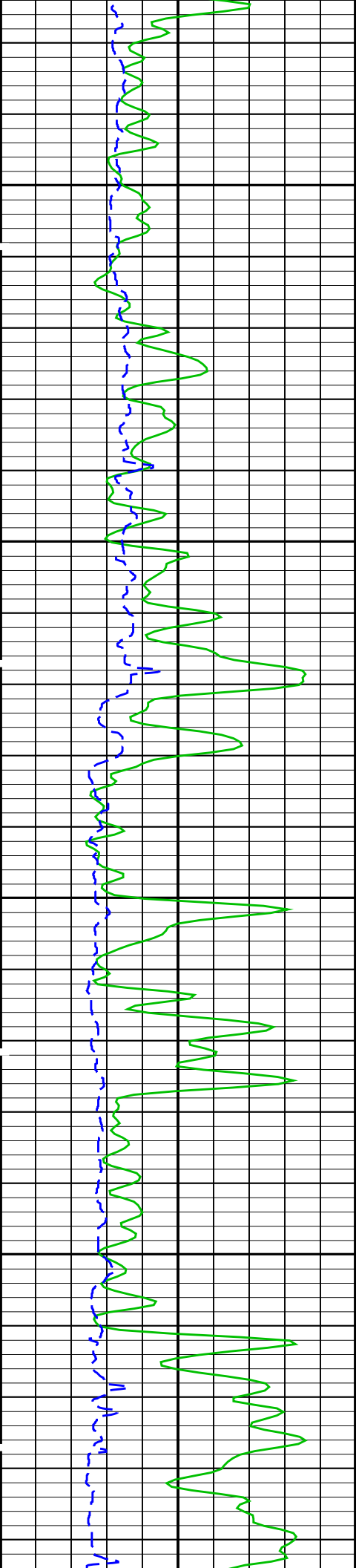




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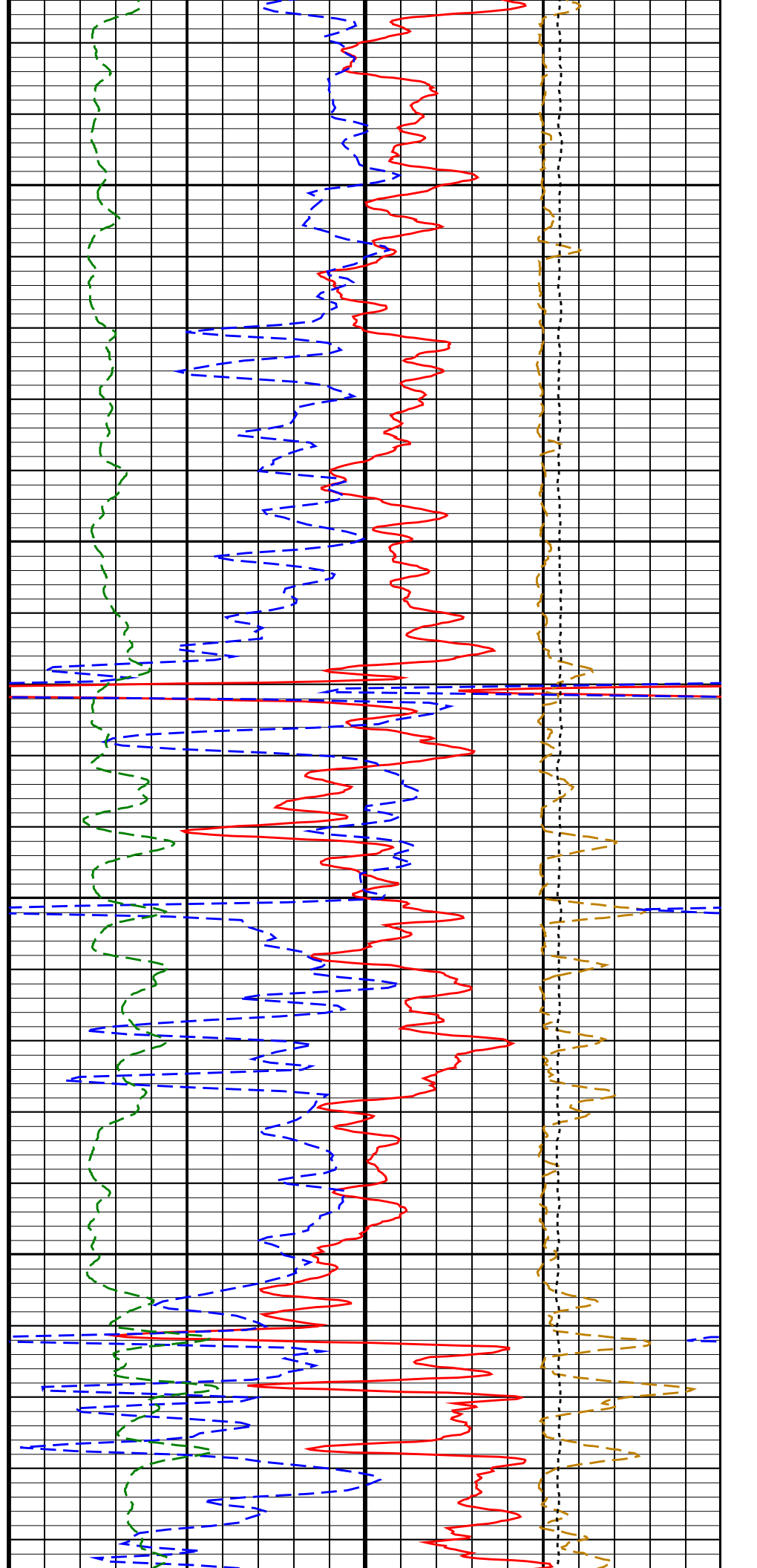
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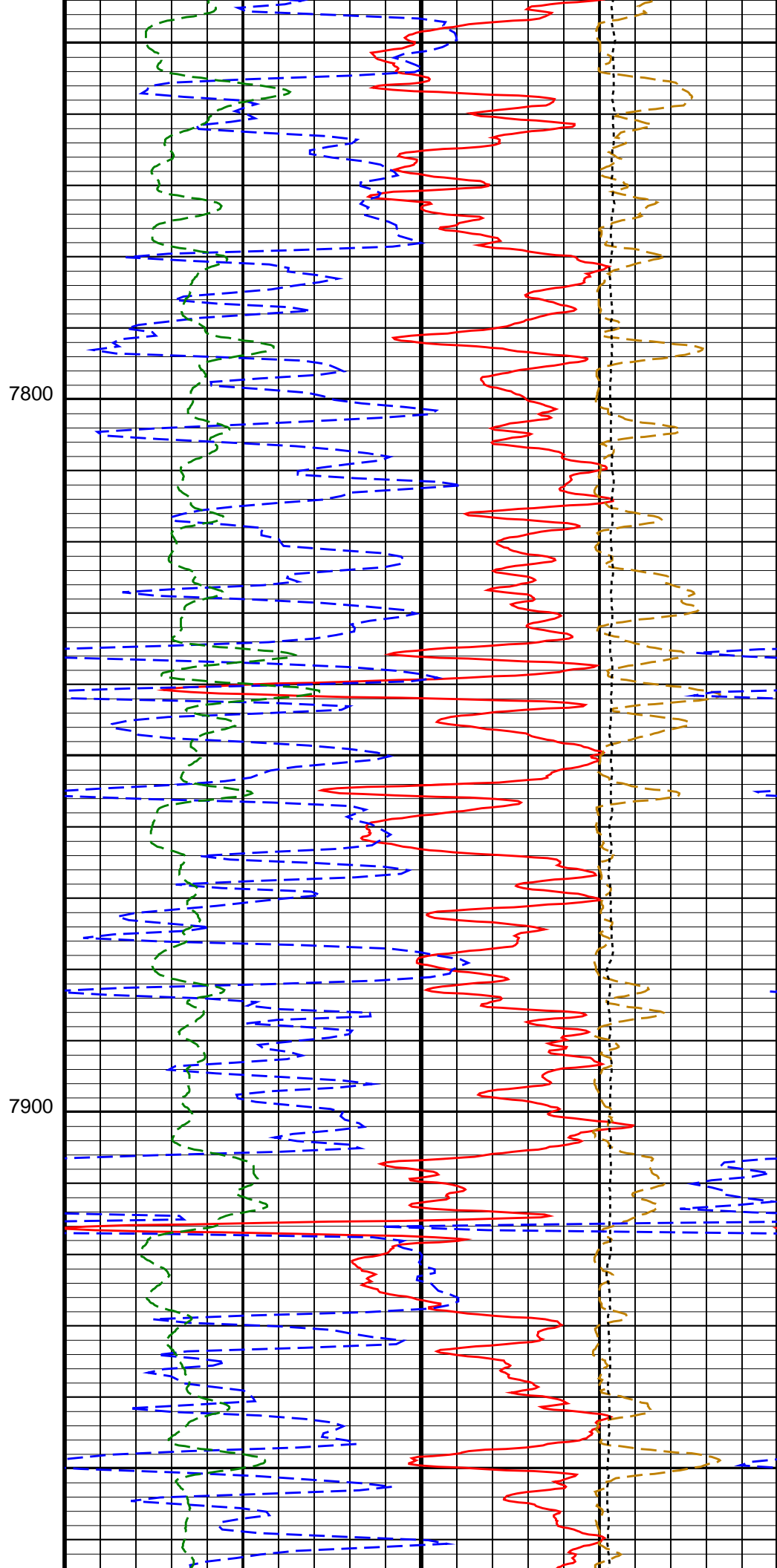
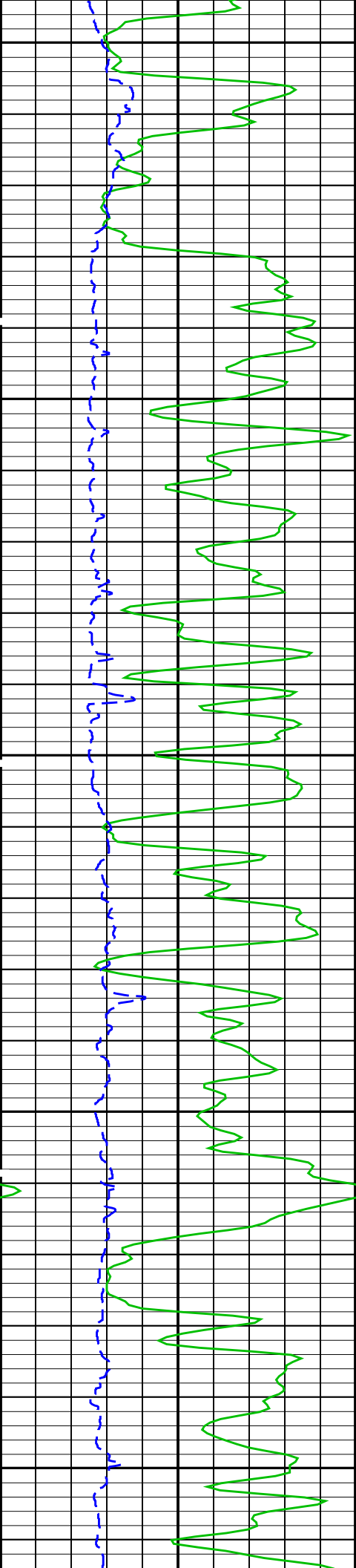


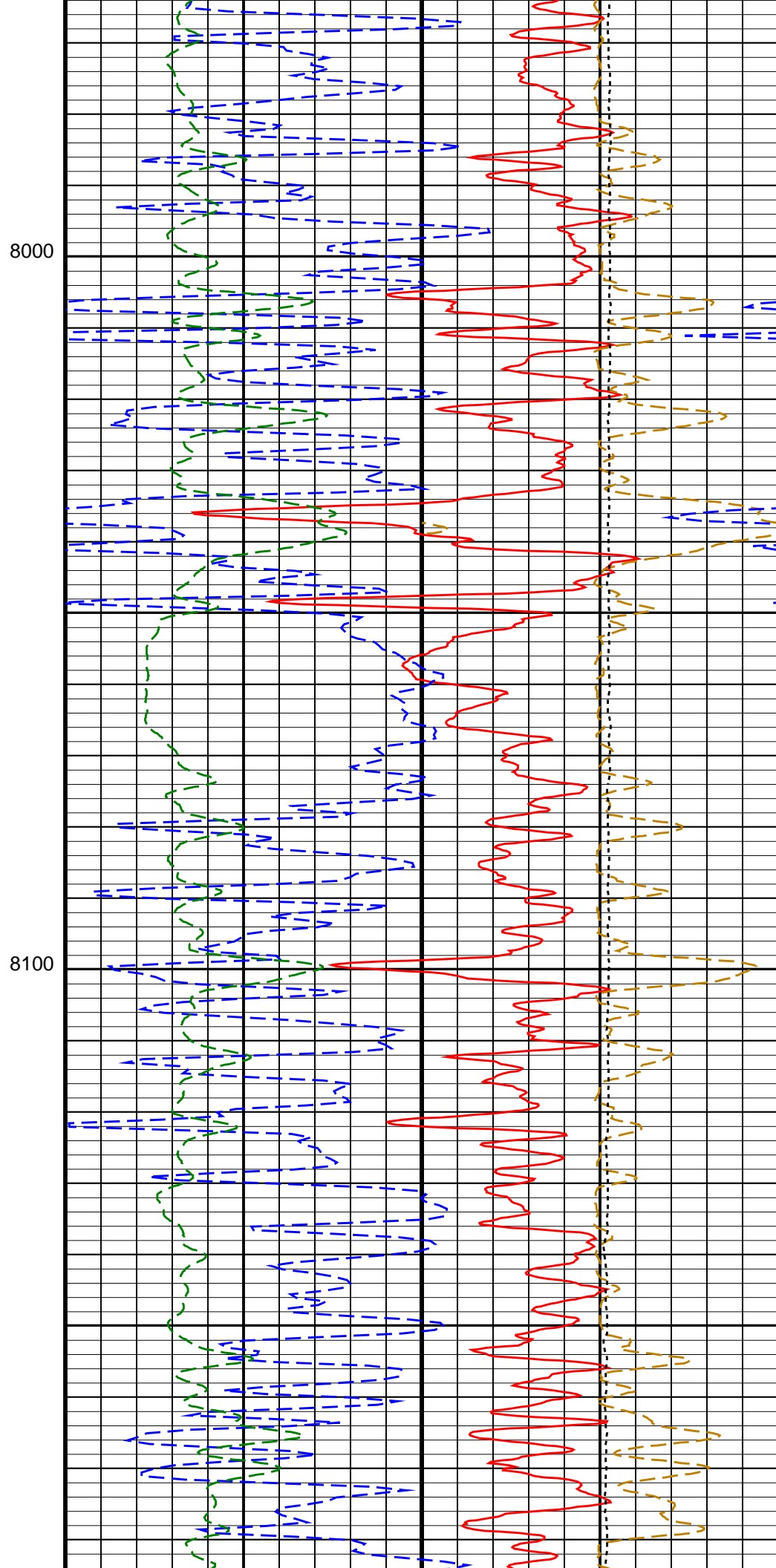
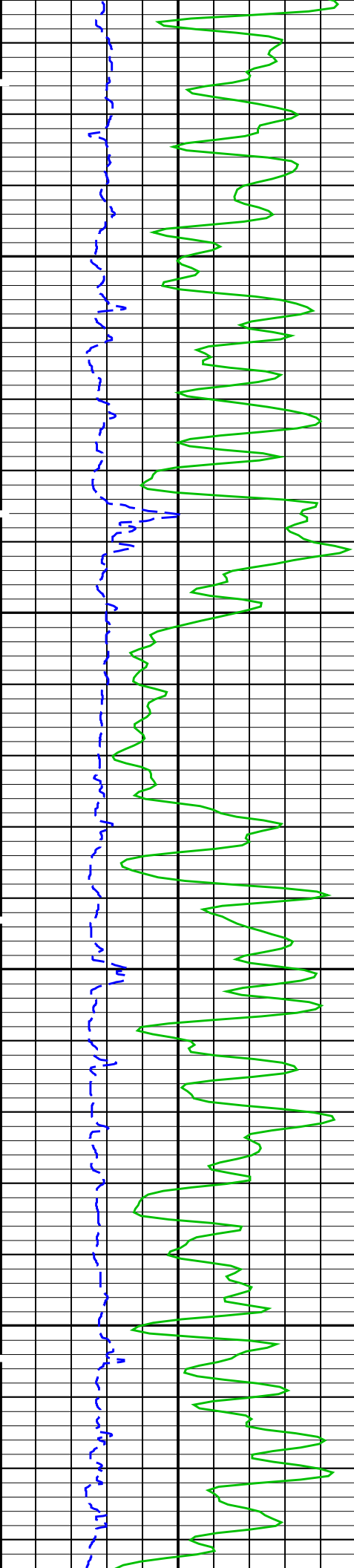


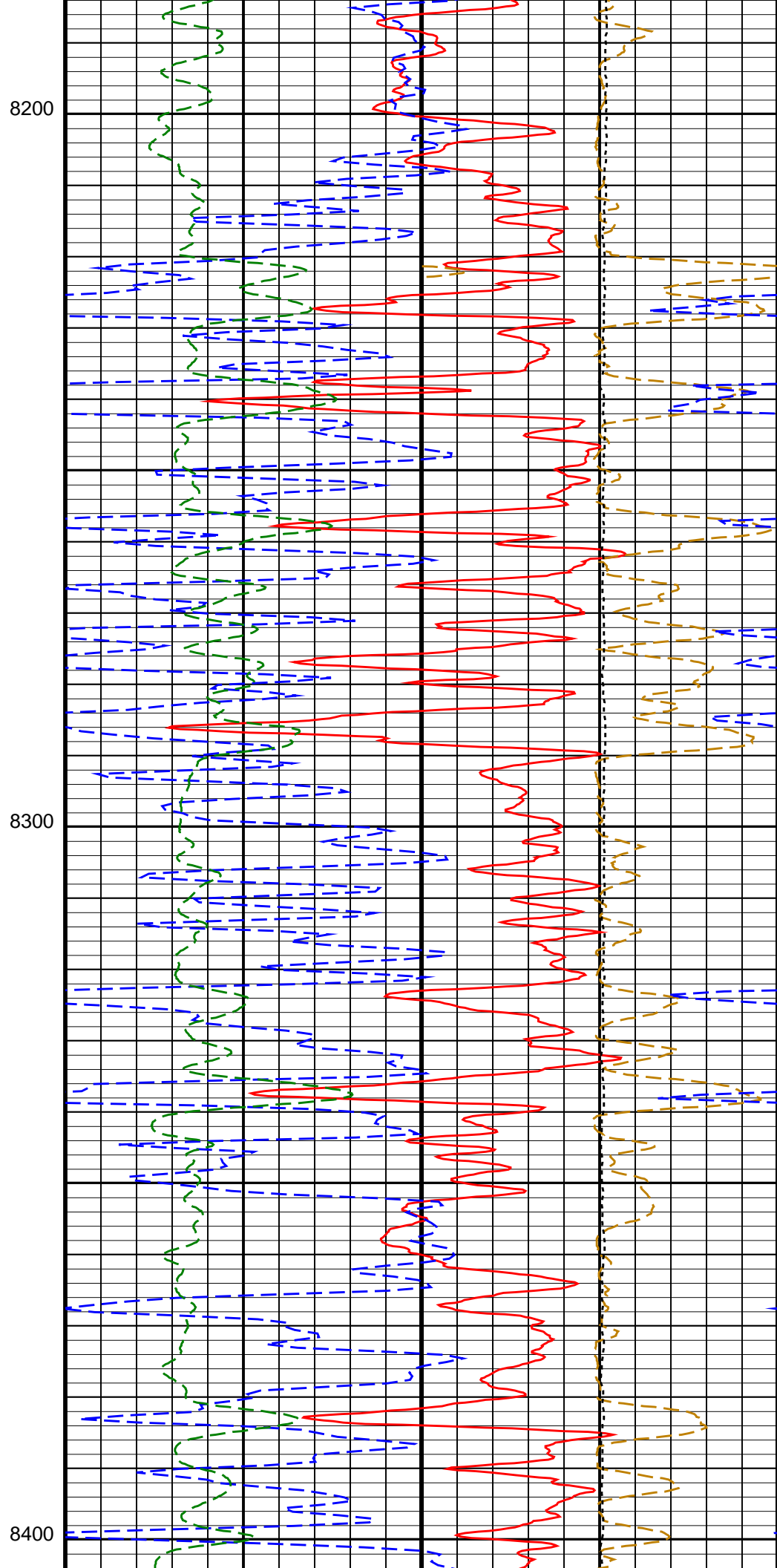
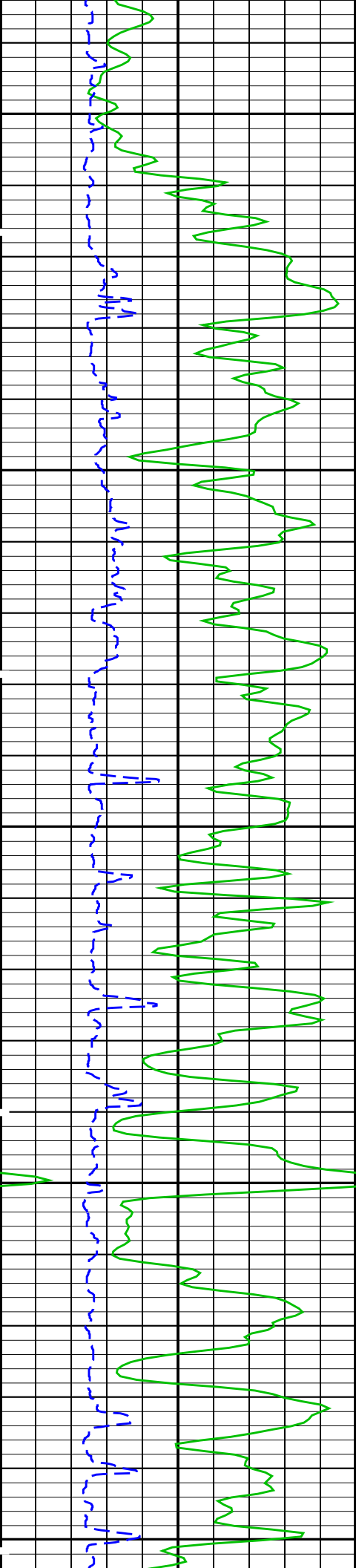
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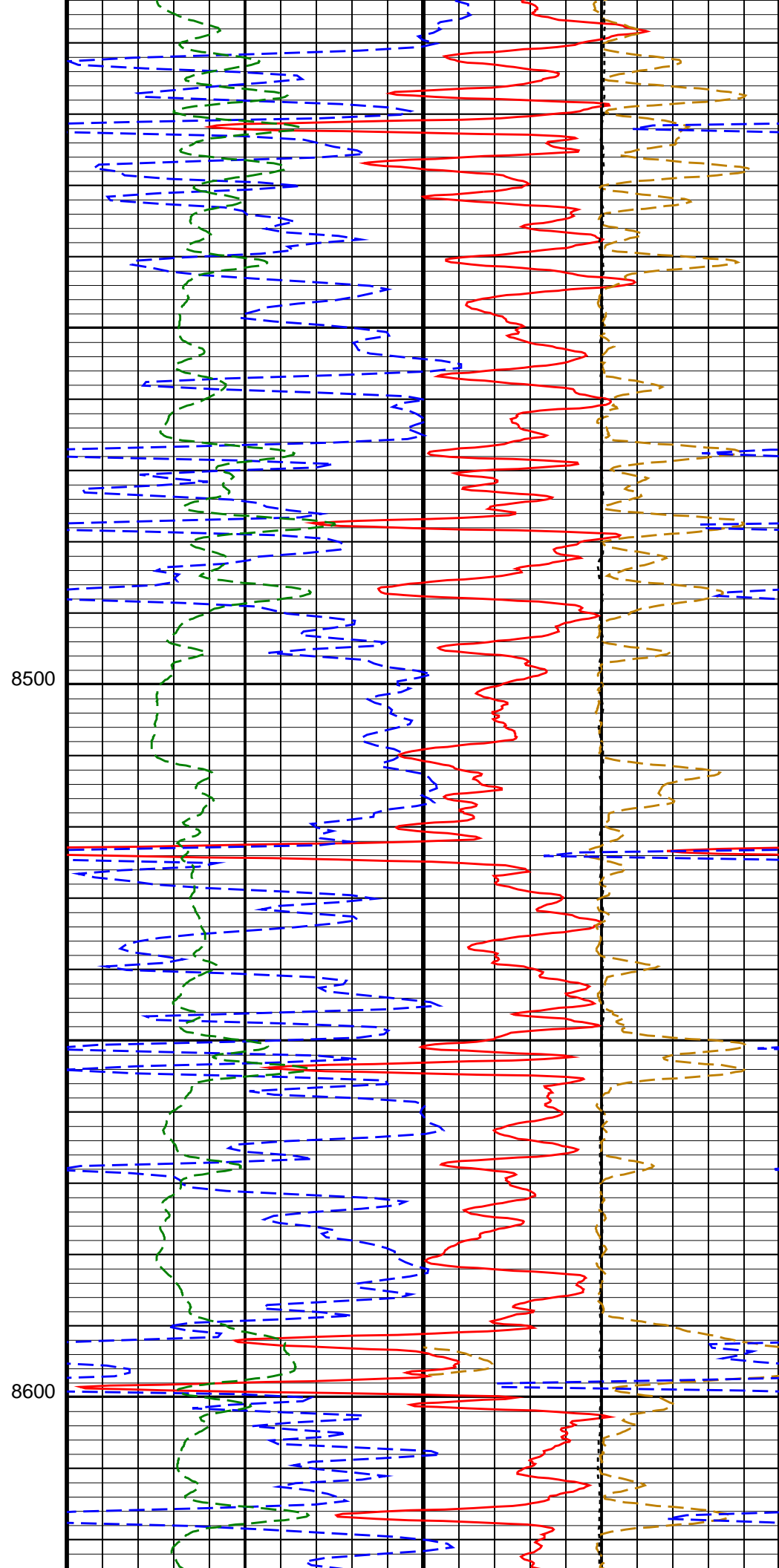
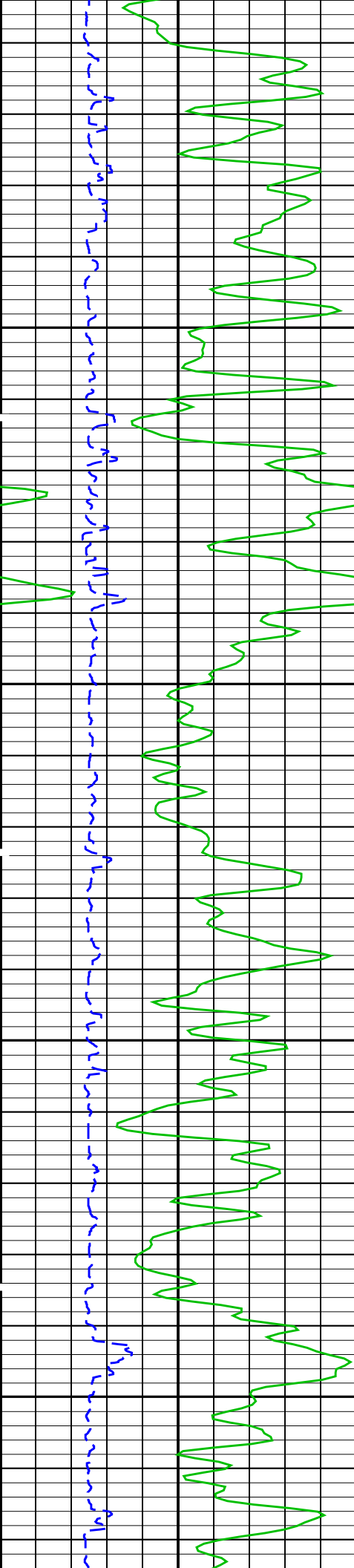
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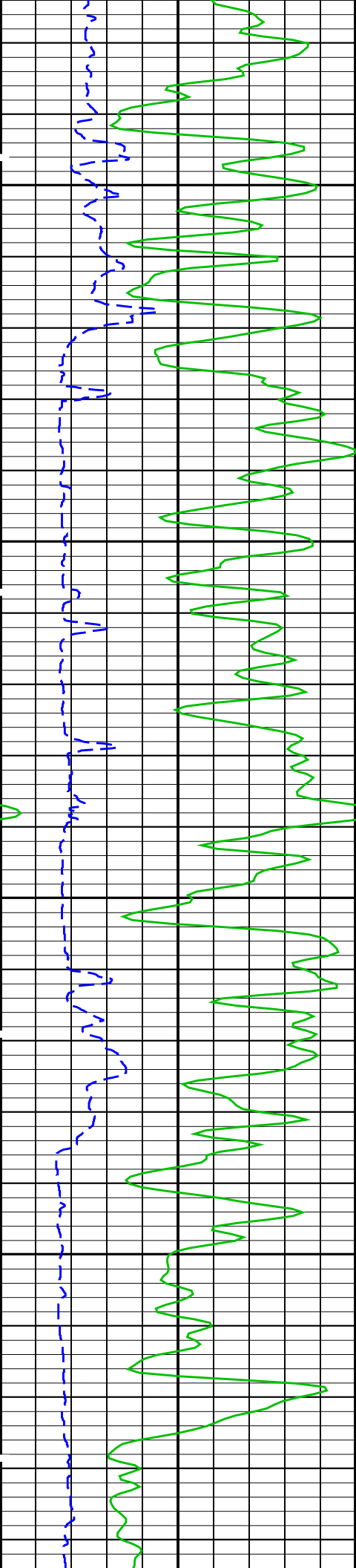






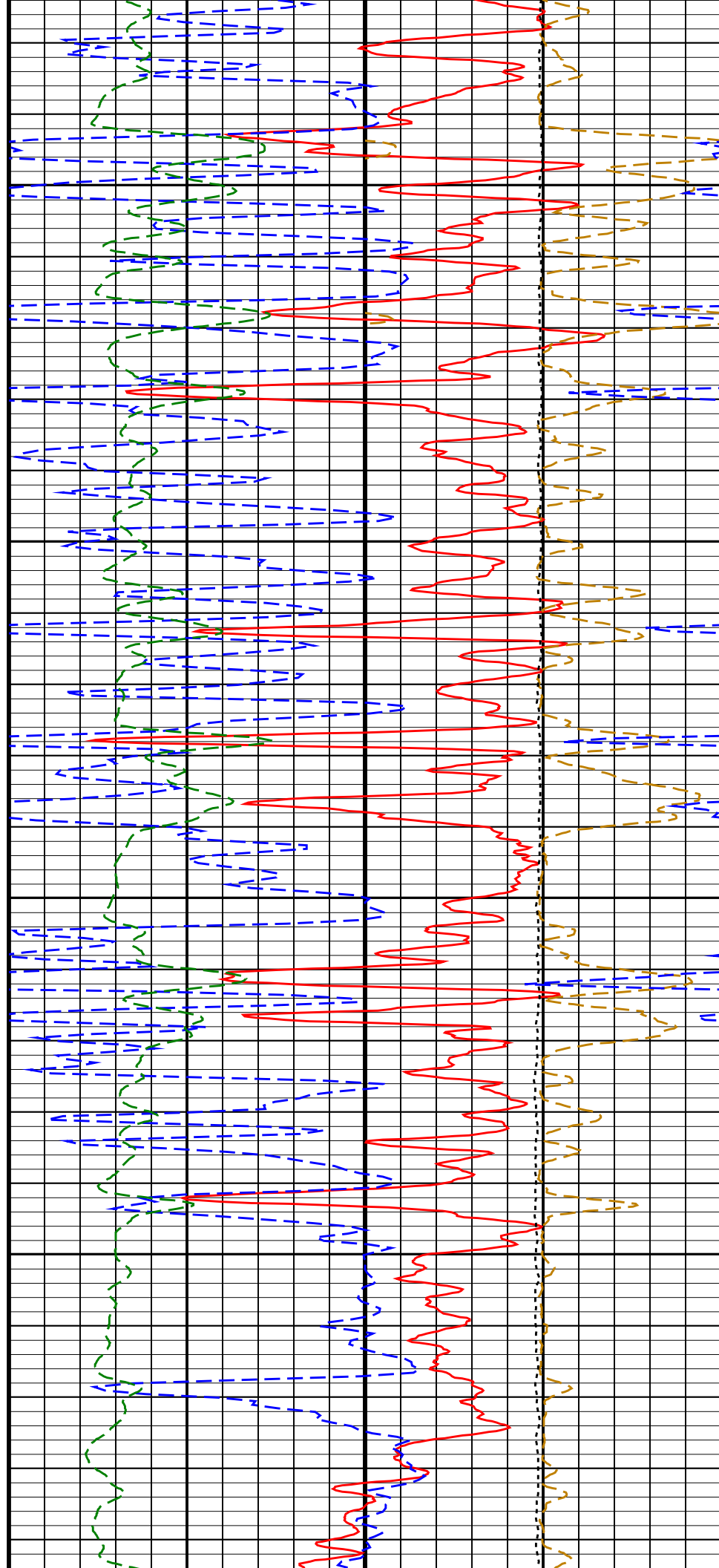


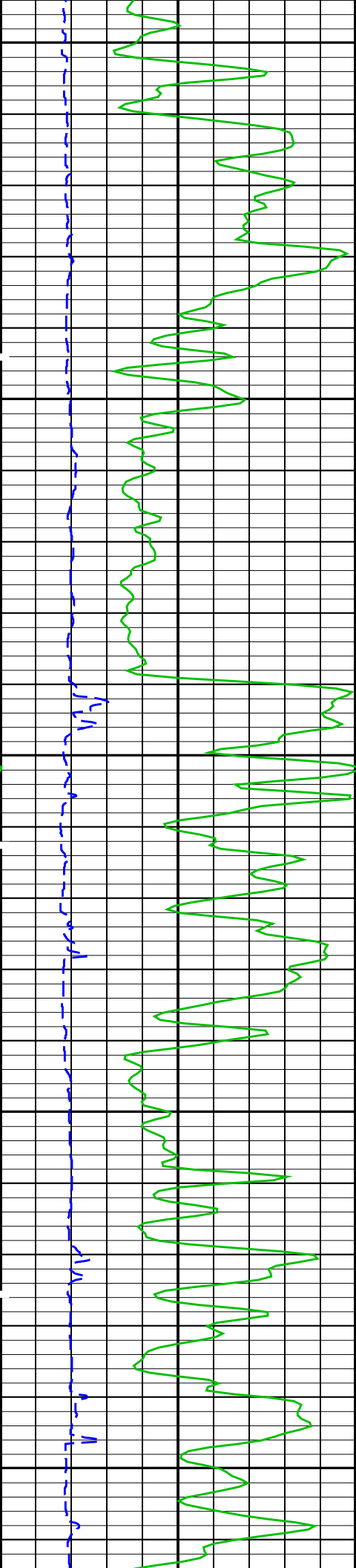




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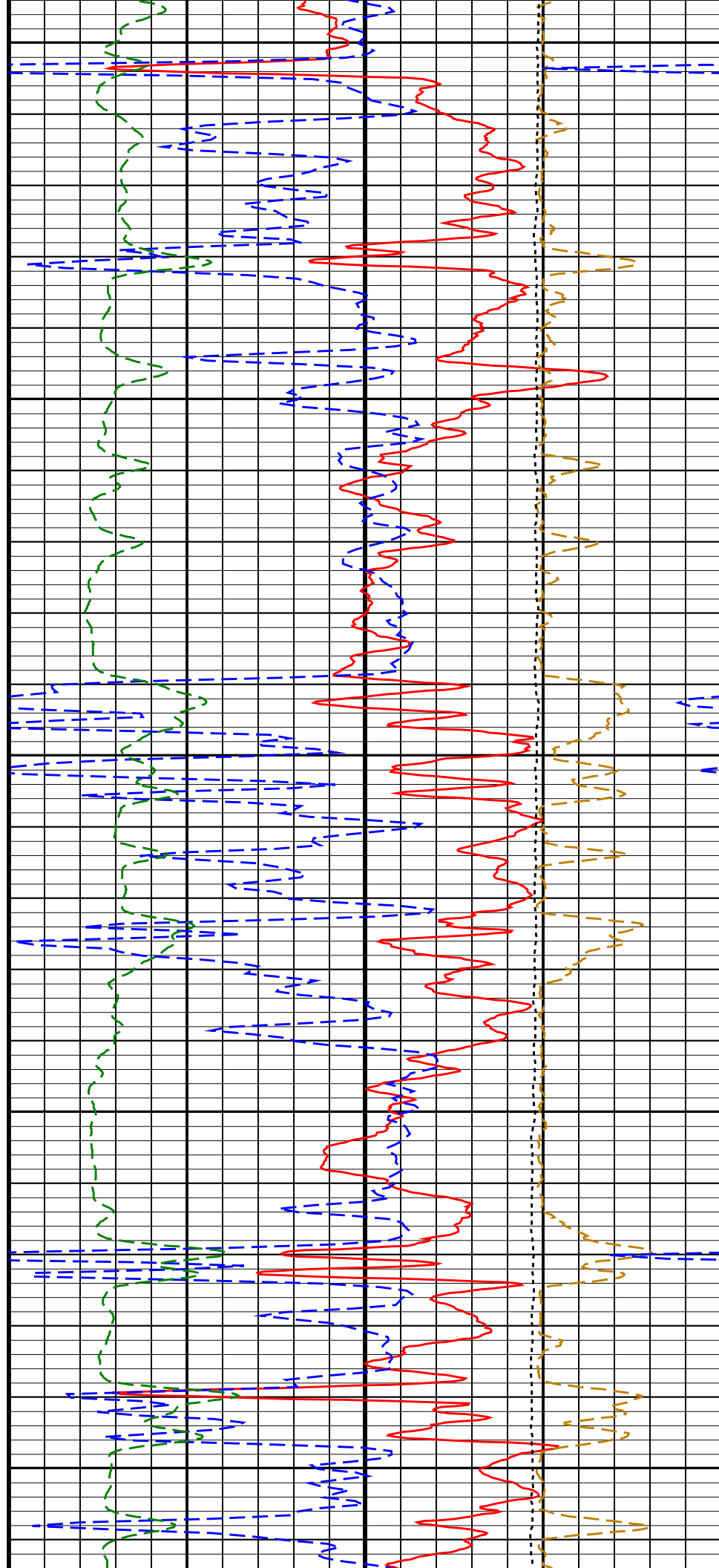
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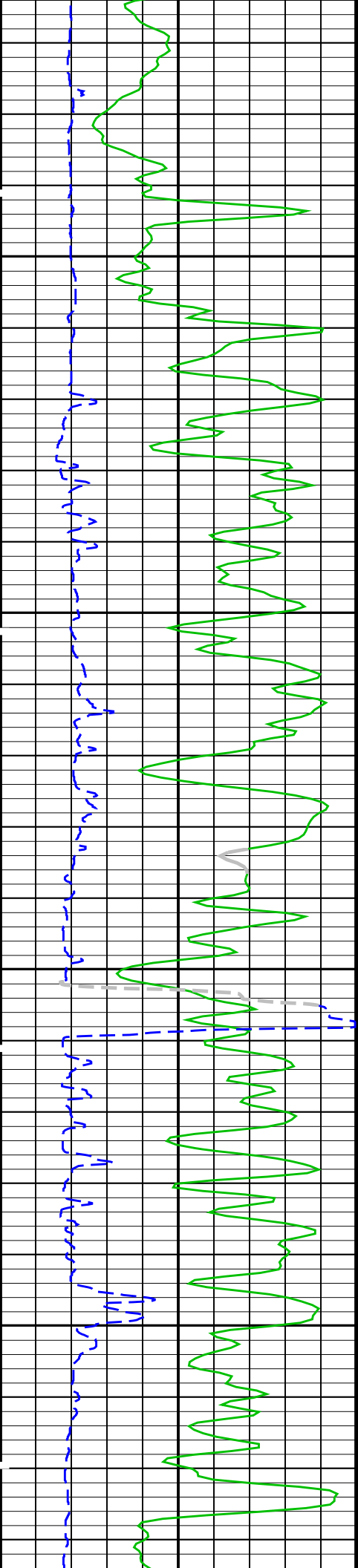




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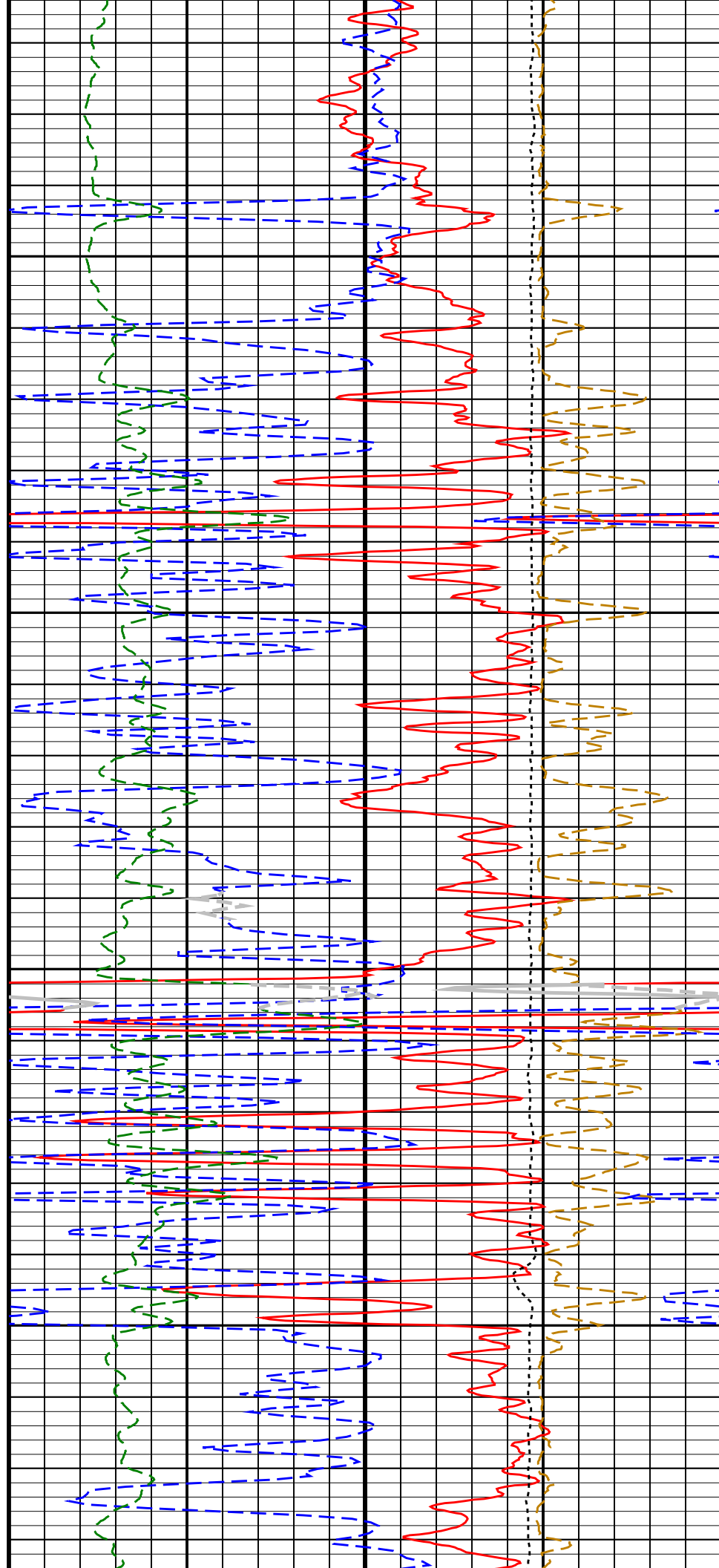
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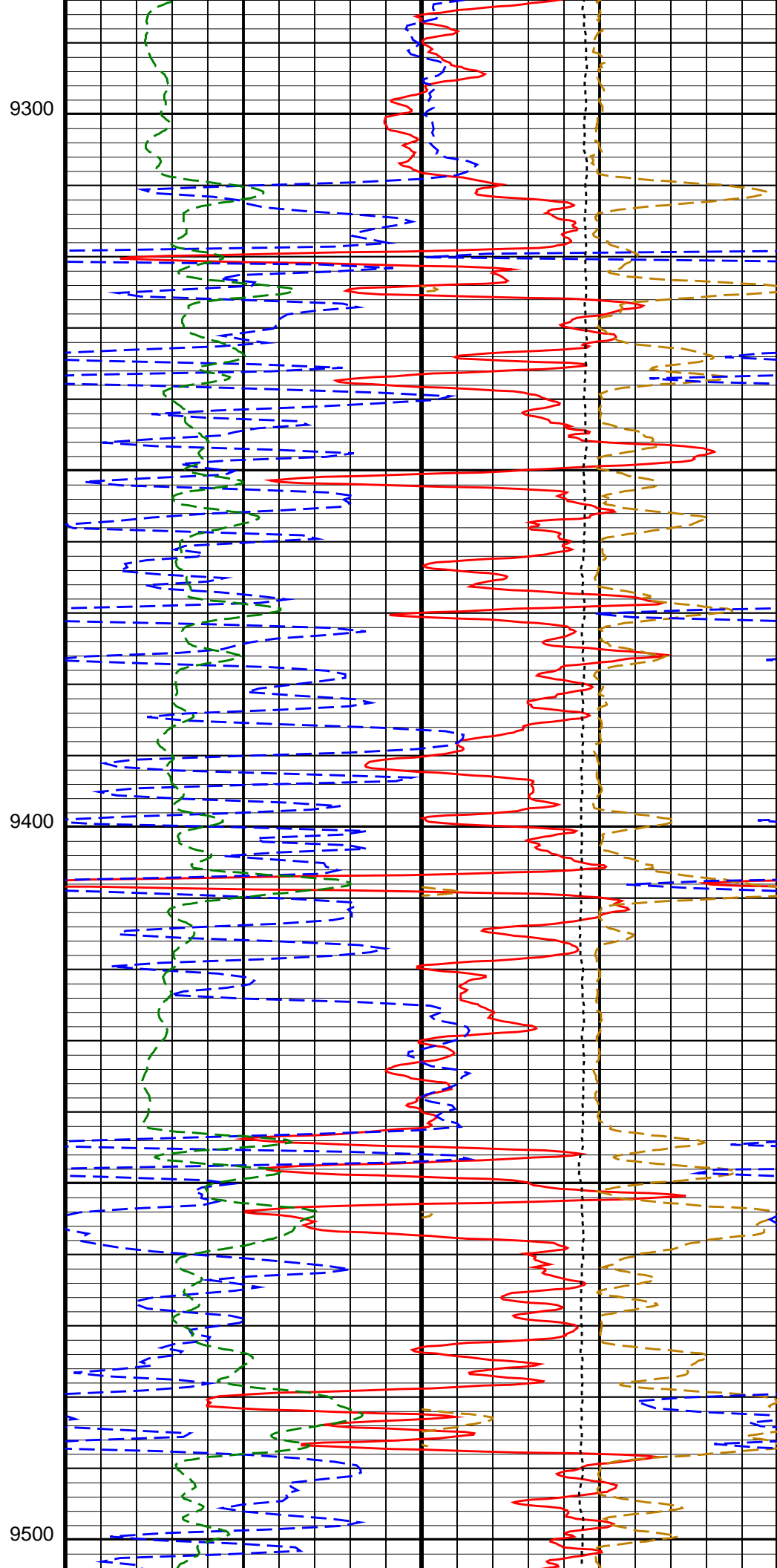
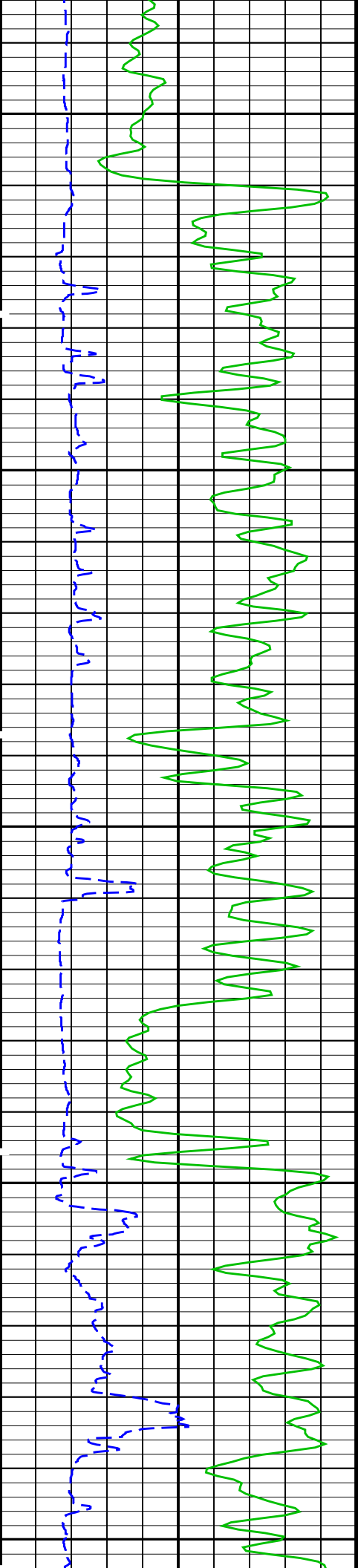


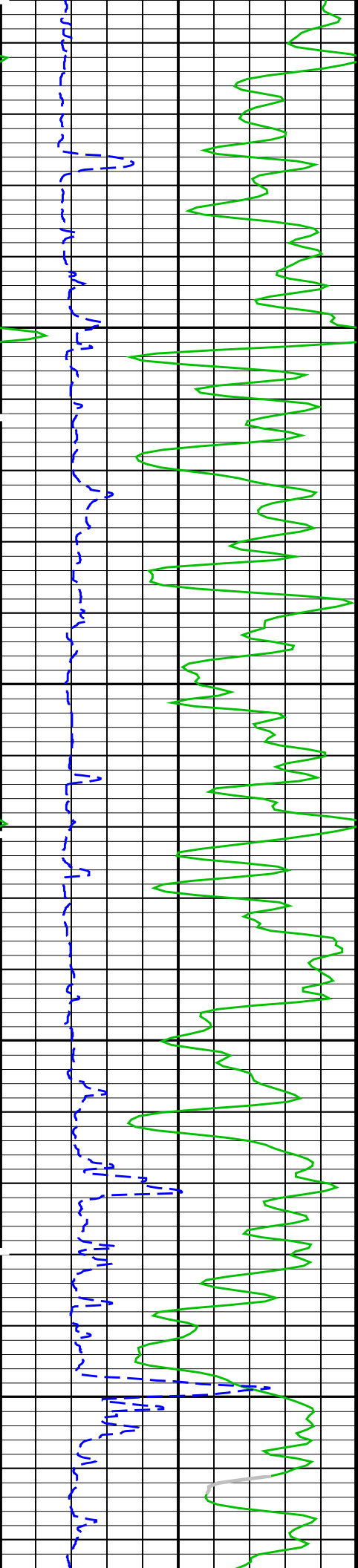


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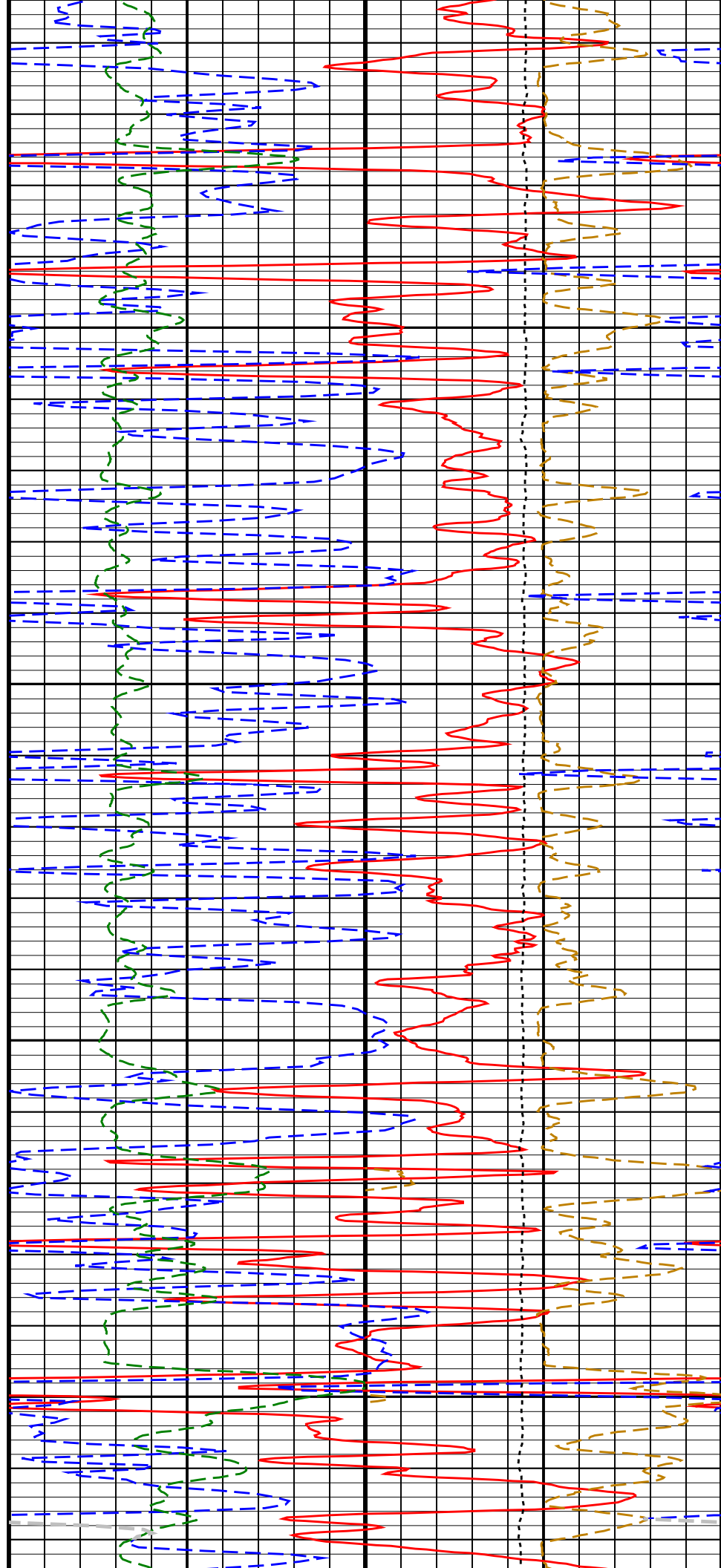


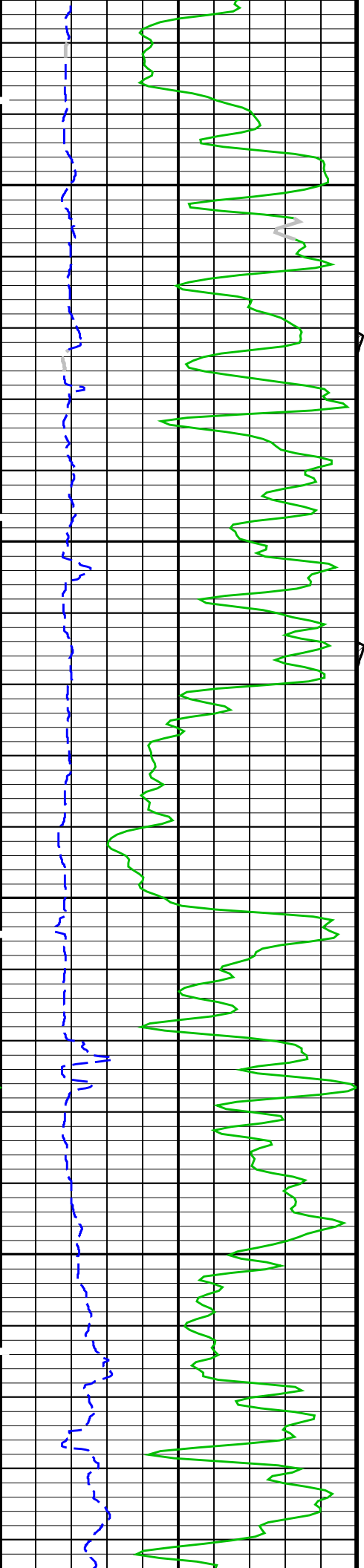




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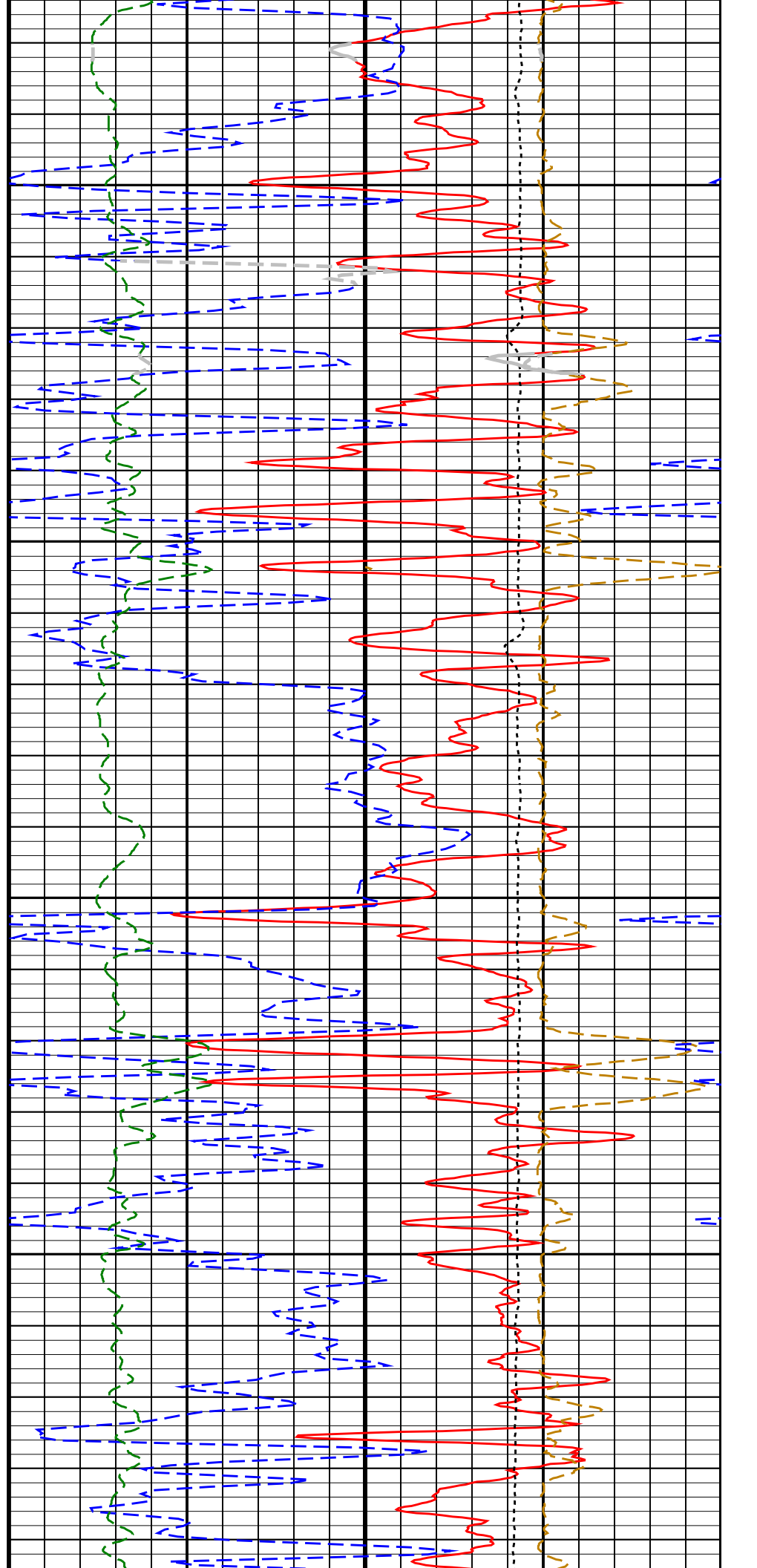
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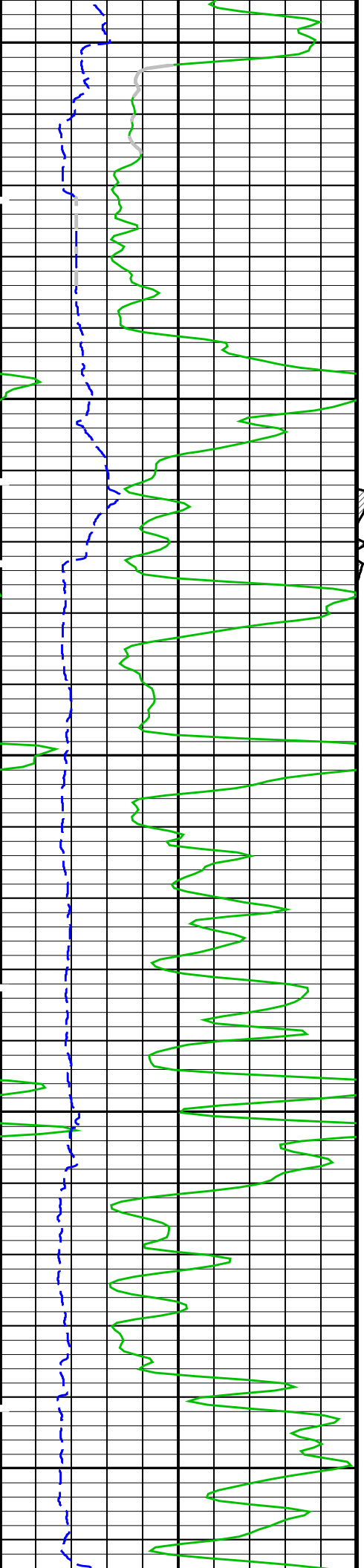




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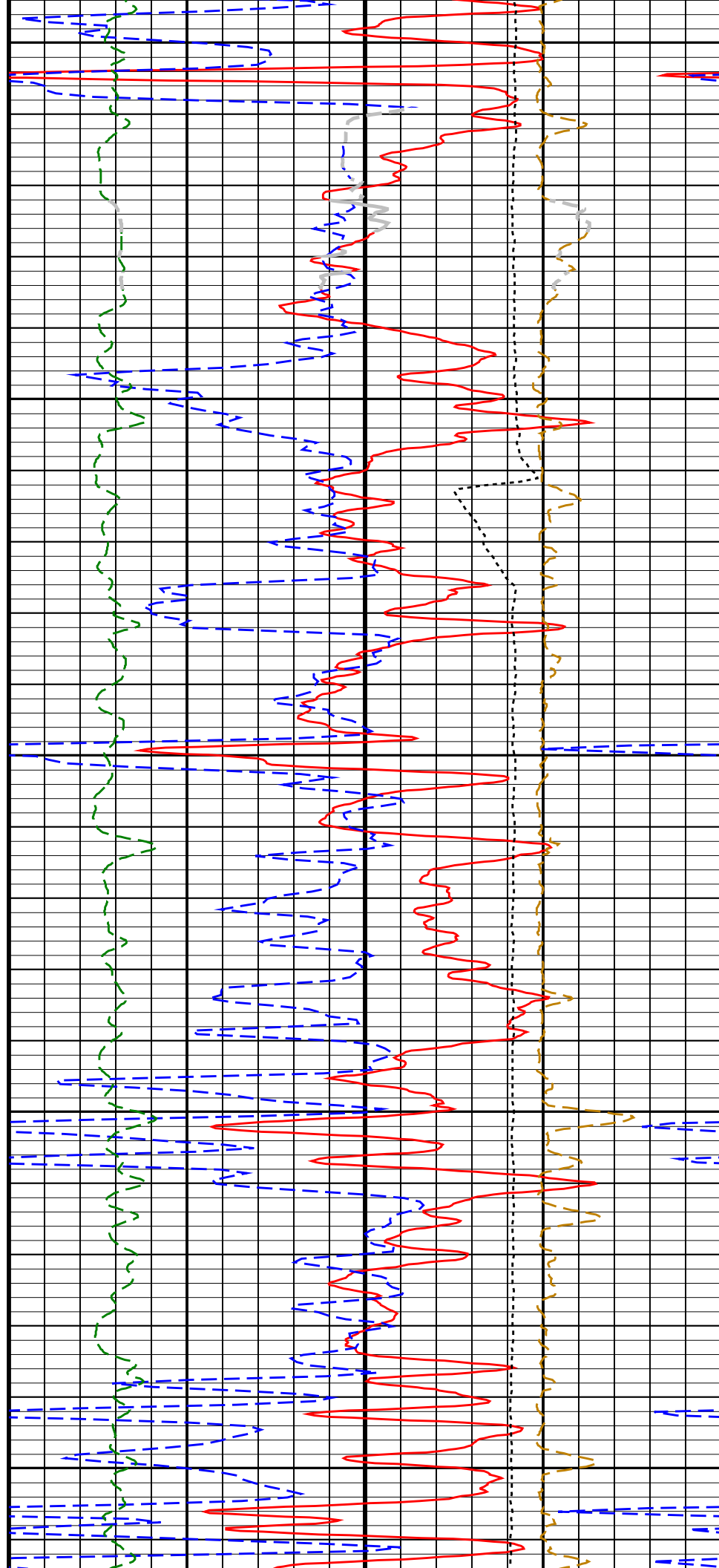
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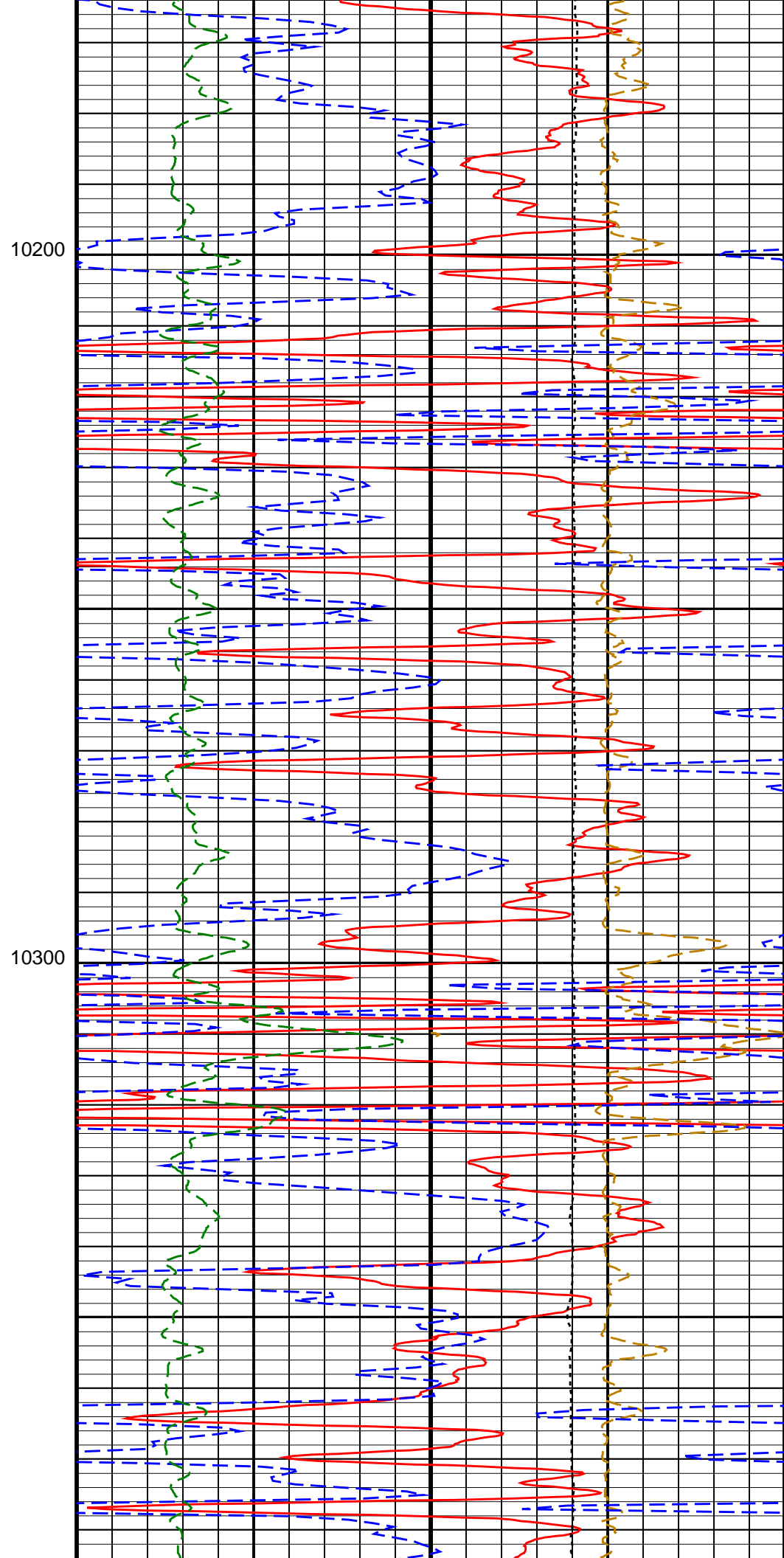
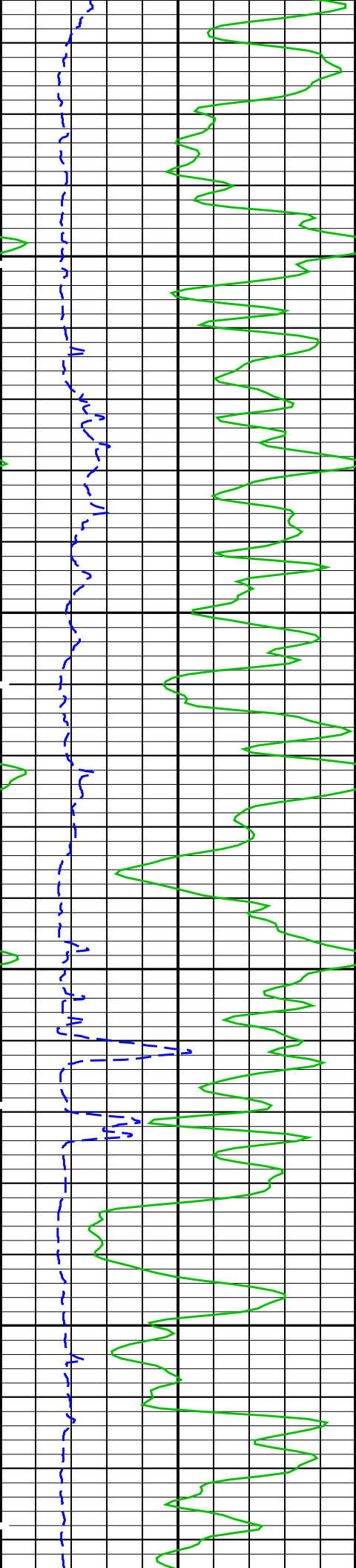


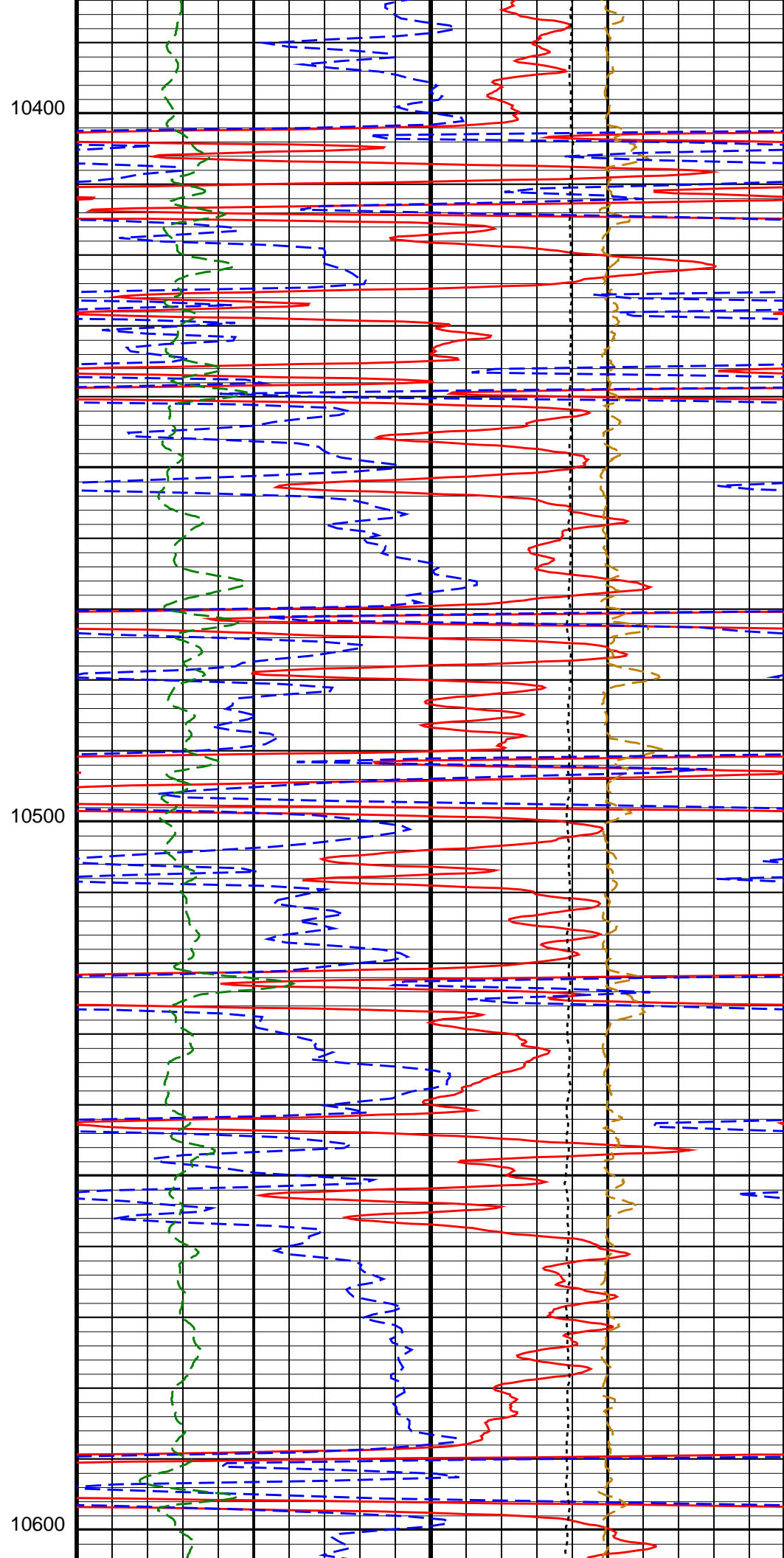
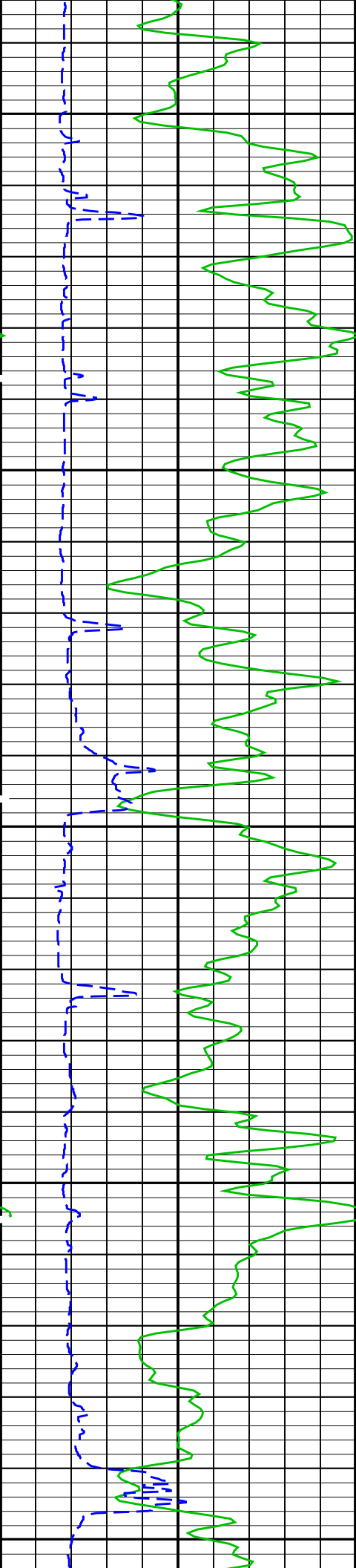


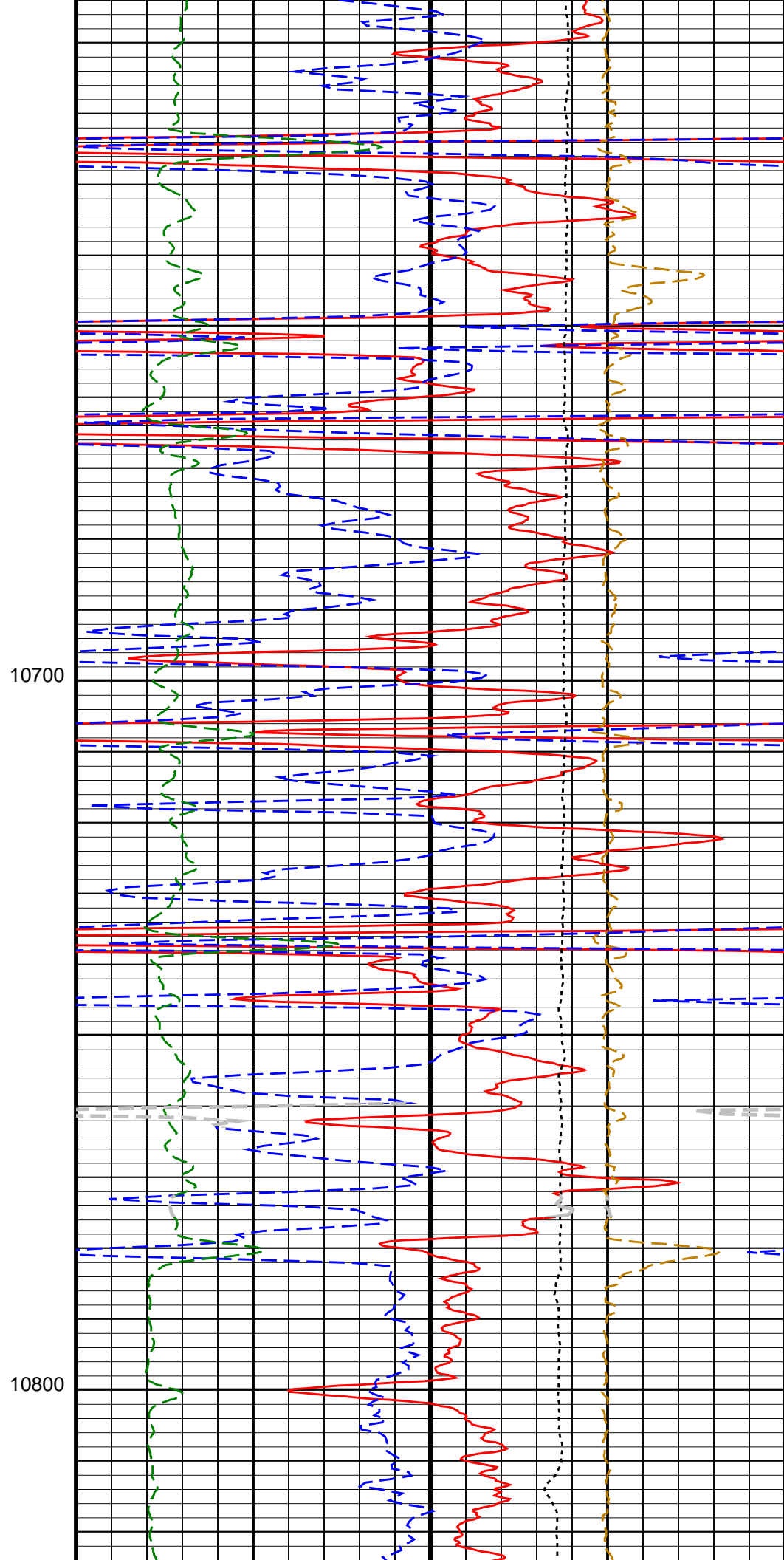
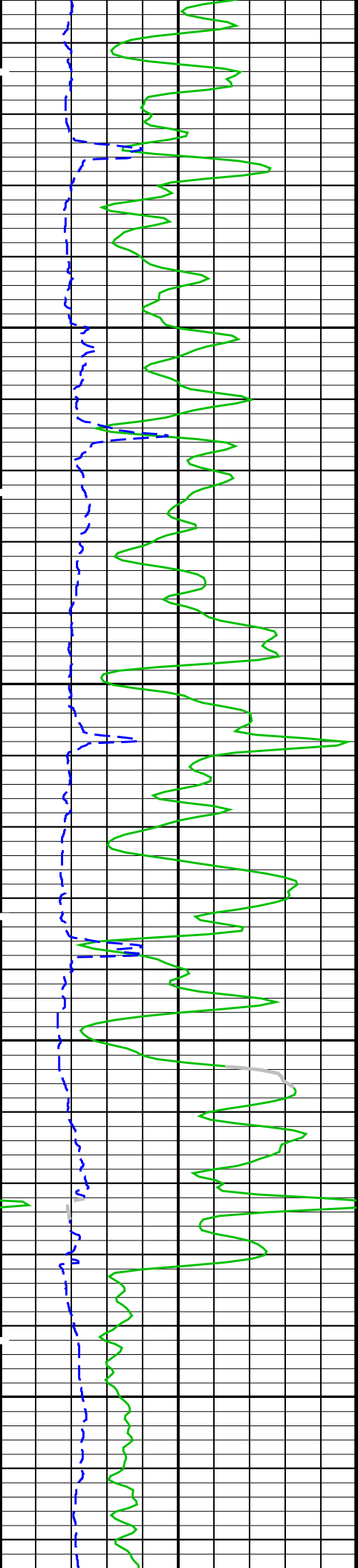
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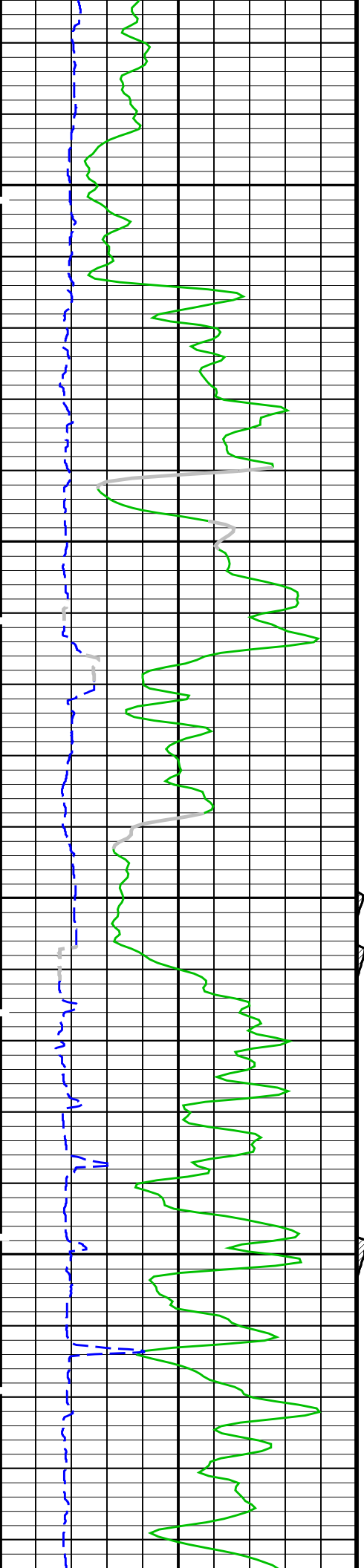
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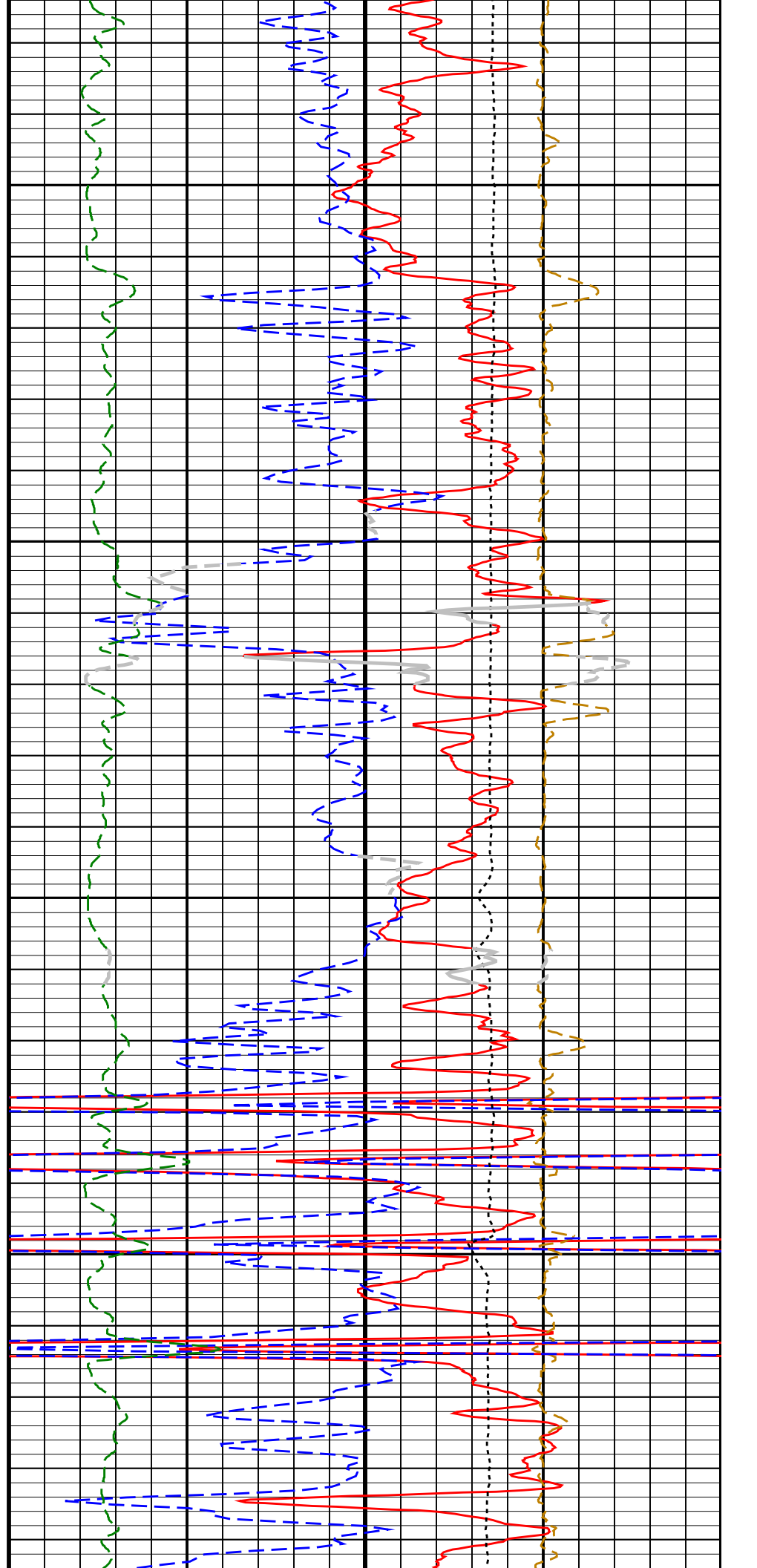


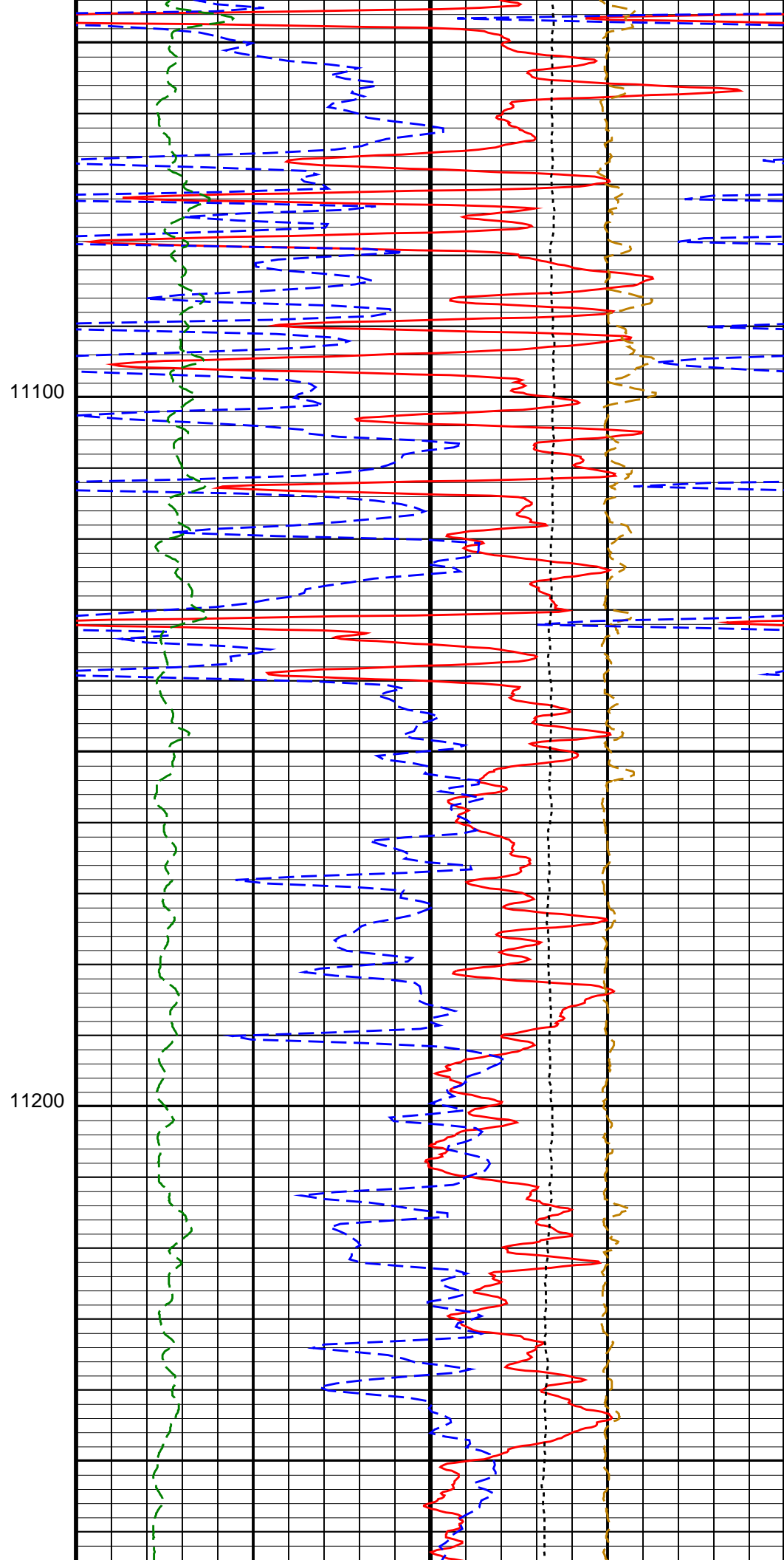
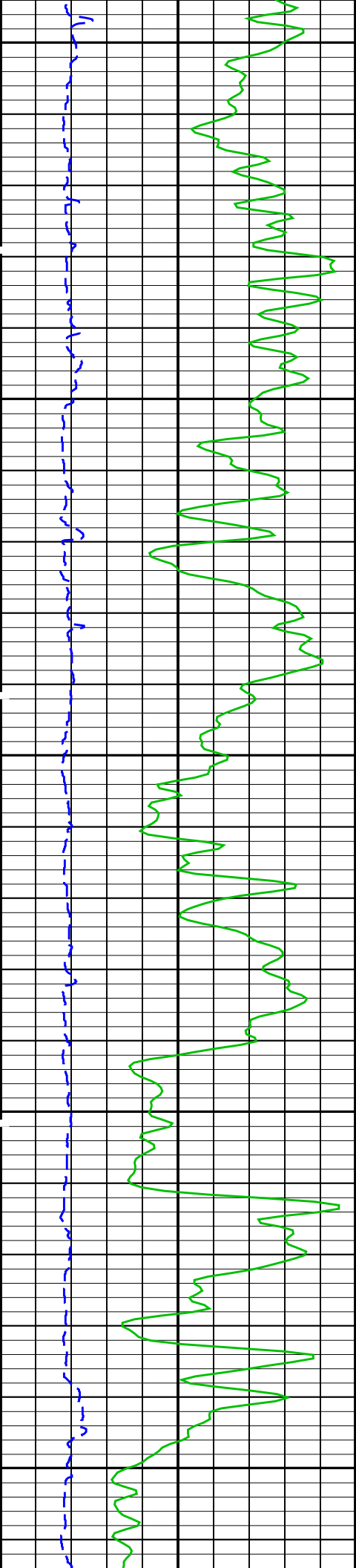


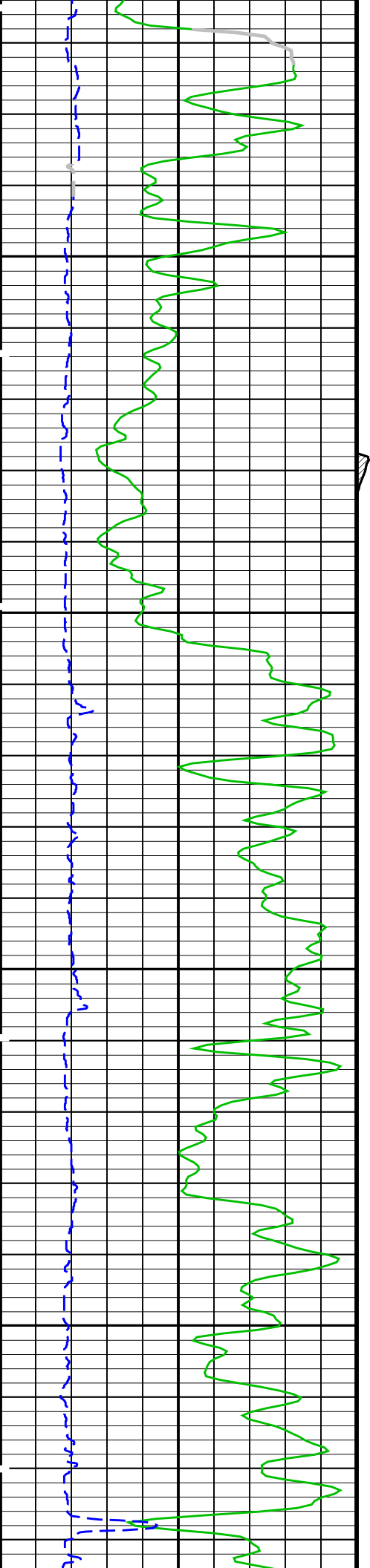


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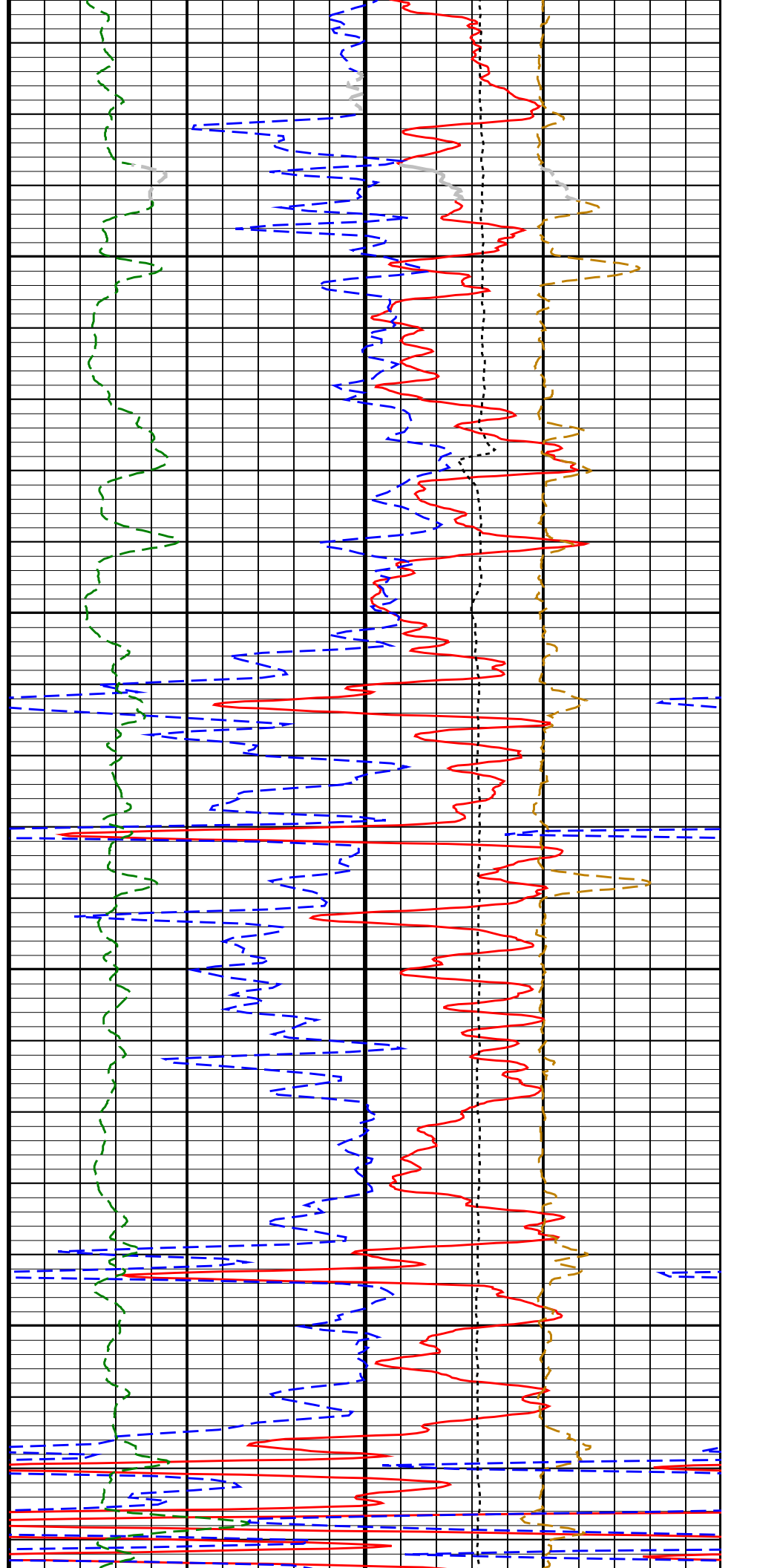


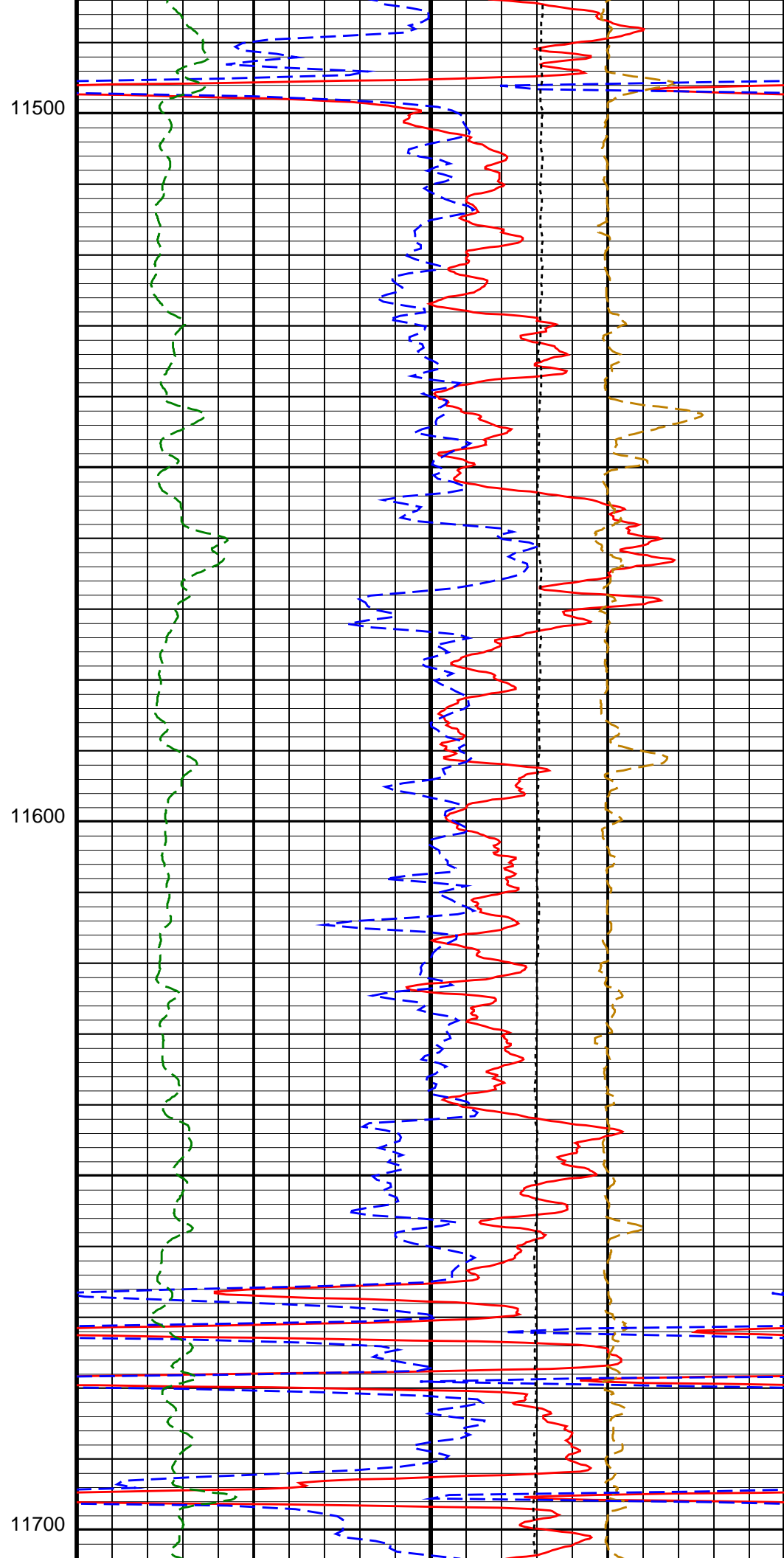
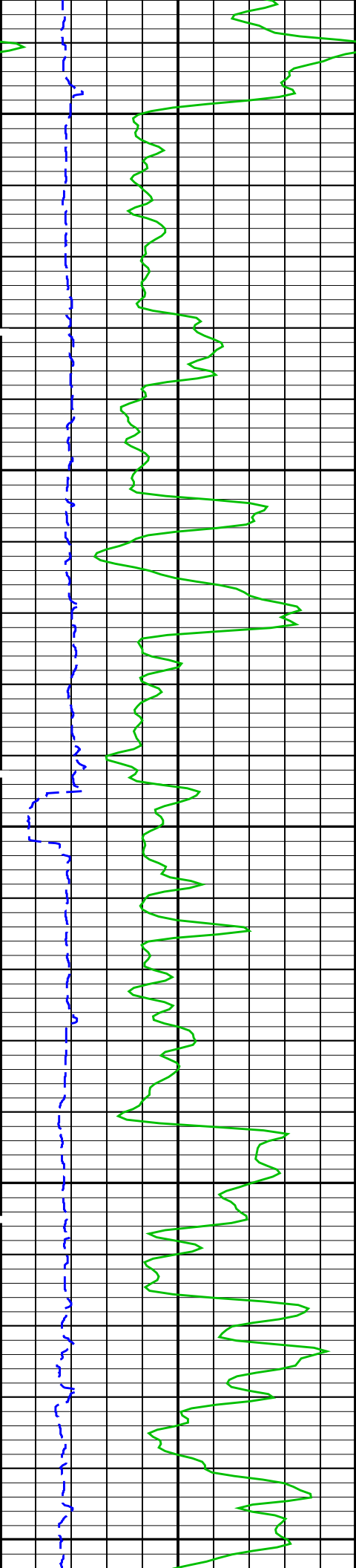


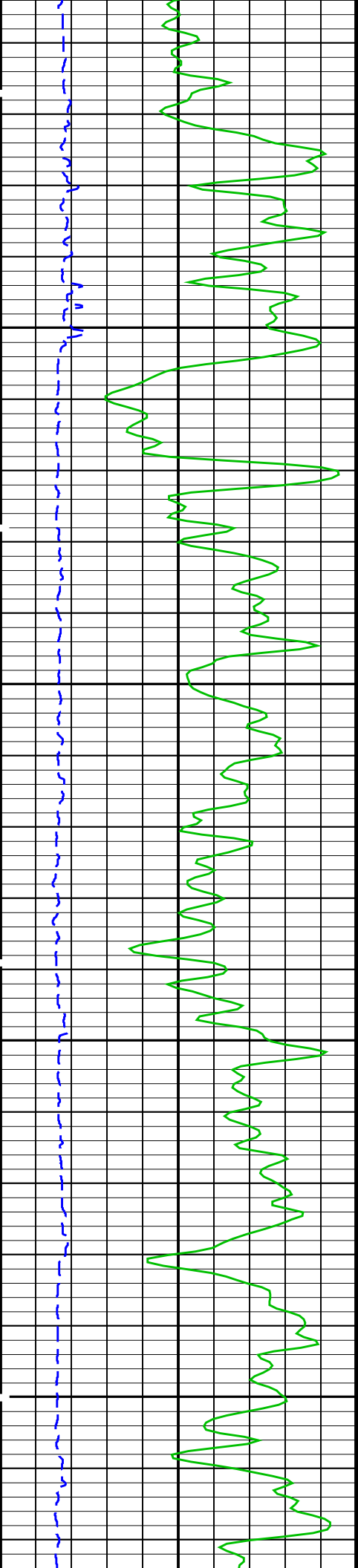


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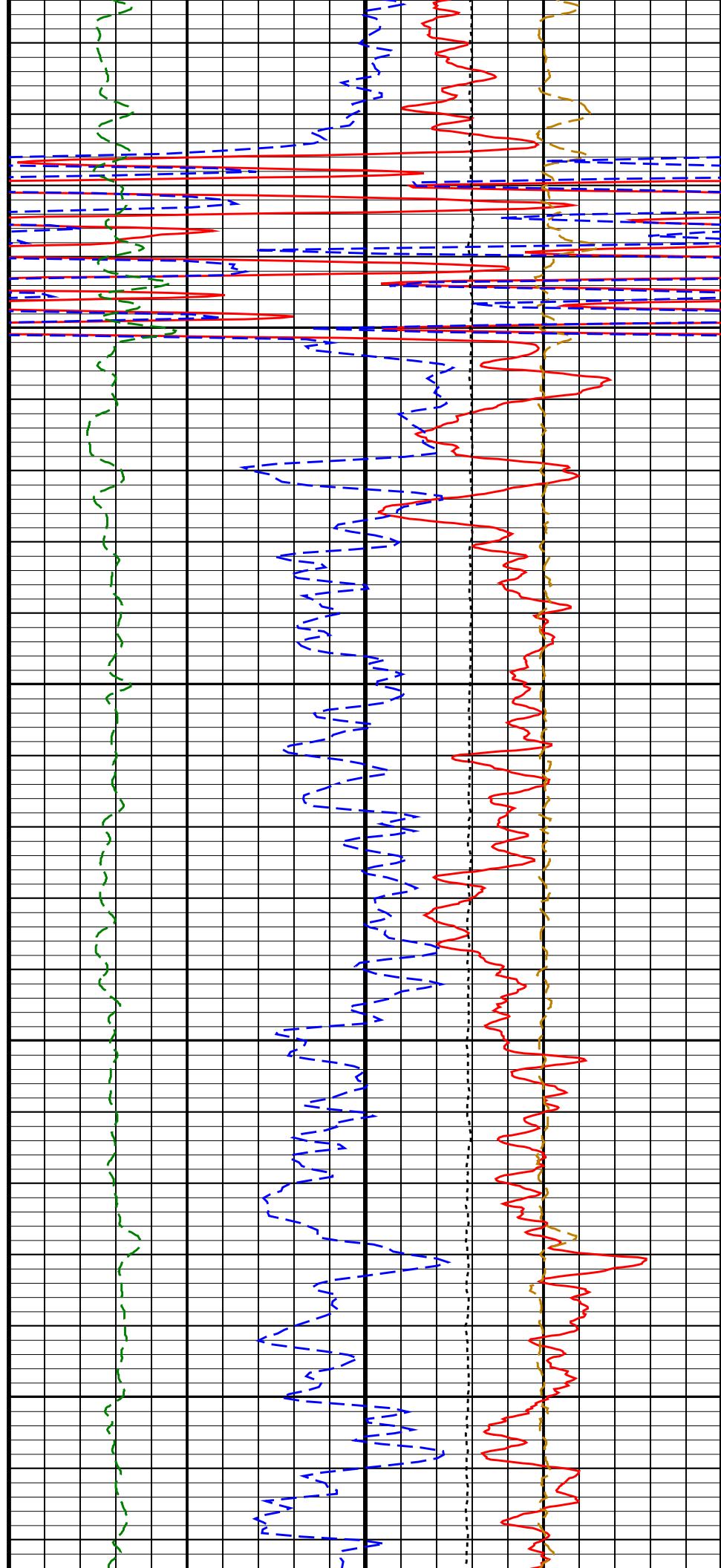


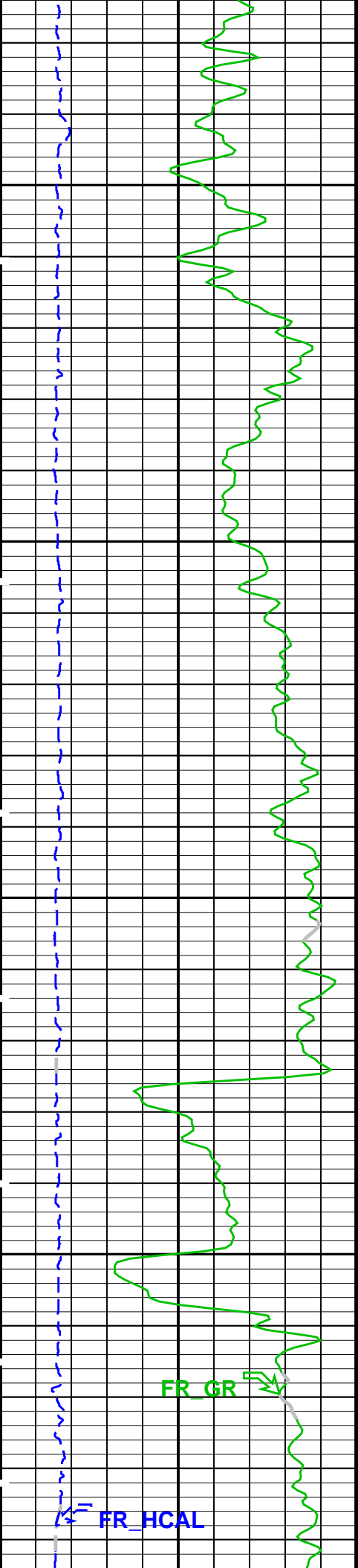




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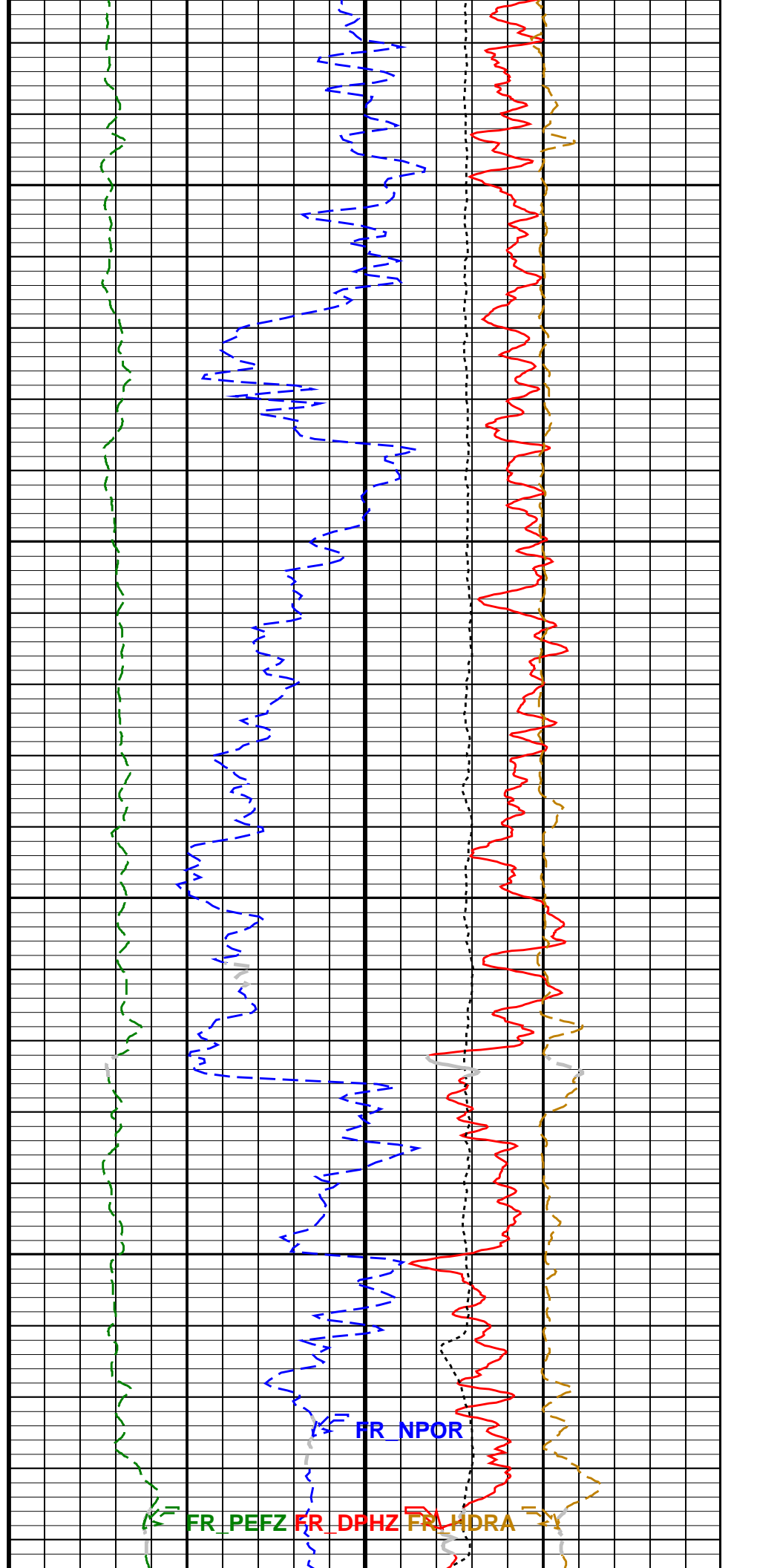
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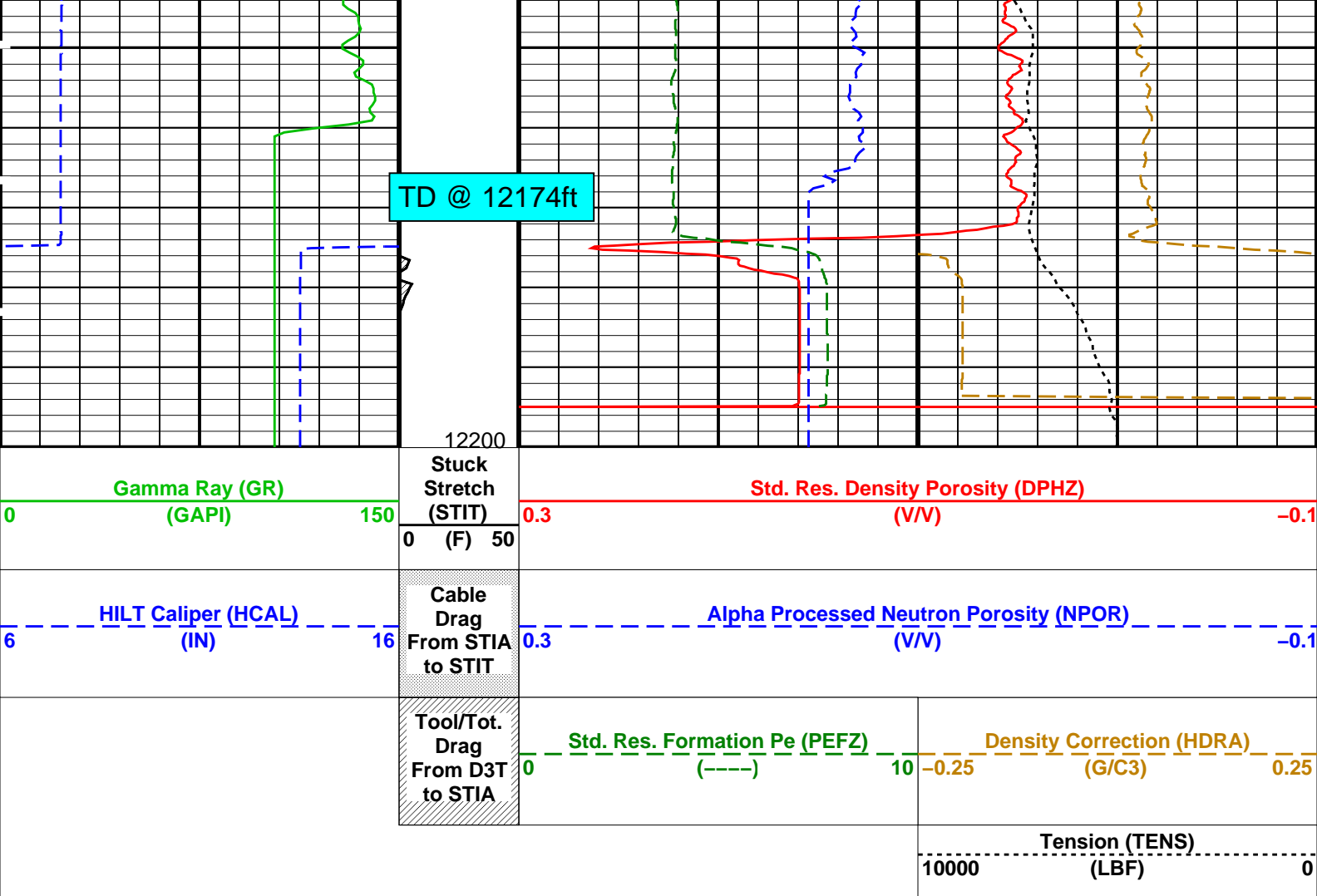




12000

12100





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HAIT-H: Array Induction Tool - H		
AHAPL	Array Induction Answer Product Level(Depth Log/View only)	
AHBHM	Array Induction Borehole Correction Mode	3_BholeCorr_BasicLogs_Radial_Processing
AHBHV	Array Induction Borehole Correction Code Version Number	2_ComputeStandoff
AHBLM	Array Induction Basic Logs Mode	900
AHBLV	Array Induction Basic Logs Code Version Number	6_One_Two_and_Four
AHCDE	Array Induction Casing Detection Enable	223
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Yes
AHDITM	Array Induction Desired Tool Mode	Eccentered
AHEBC	Array Induction Enable Borehole Correction	0x00_Log_000
AHEBL	Array Induction Enable Basic Logs	Yes
AHERP	Array Induction Enable Radial Processing	Yes
AHETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes
AHFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20
AHIGS	Array Induction Select Akima Interpolation Gating	On
AHLNV	Array Induction Log Not Valid Flag	Log_Valid-No_Default_Parameters
AHMRD	Array Induction Mud Resistivity Calibration Depth	0 FT
AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20
AHRFV	Array Induction Radial Profiling Code Version Number	701
AHRPM	Array Induction Radial Processing Mode	1_Two
AHRPV	Array Induction Radial Parametrization Code Version Number	232
AHSTA	Array Induction Tool Standoff	1.5 IN
AHTNO	Array Induction Tool Serial Number	392
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20
AHTSE	Array Induction Temperature Selection (Sonde Error Correction)	Internal
AHTTY	Array Induction Tool Type (of acquired data)	HAIT
AHULV	Array Induction User Level Control	Normal
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	248 DEGF
FEYP	Form Factor Exponent	2

FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	7.022	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RTCO	RTCO – Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	72	DEGF
SPNV	SP Next Value	0	MV

DSLT-FTB: Digitizing

	Sonic Logging Tool		
	DSLT Firing Mode	BHC	
	Telemetry Mode	DSLC_FTB	
AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	140	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	45	US
CDTS	C-Delta-T Shale	100	US/F
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E2	
DFAD	Digital First Arrival Detection Switch	HOST	
DIVL	DSLT Depth Sampling Interval	20	
DRCS	DSLT DLIS Recording Size	100	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLC Telemetry Frame Size	276	
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizing Word Count	100	
GAI	Manual Gain	40	
HRSP	High Resolution Spacing	5.118	IN
ITTS	Integrated Transit Time Source	DT	
LTUT	Lower to Upper Transmitter Spacing Ratio	1	
MAHTR	Manual High Threshold Reference	120	
MGAI	Maximum Gain	60	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	100	
MODE	Sonic Firing Mode	BHC	
NMSG	Near Minimum Sliding Gate	150	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R15	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	0	DB/F
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	AUTO	
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	50	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	40	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGAJ	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	

HILTH-FTB: High resolution Integrated Logging Tool-DTS

BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	248	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
EXSICL	External Shale Indicator Clean Value	20	
EXSISH	External Shale Indicator Shale Value	150	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	7.022	DEG
GGRD	Geothermal Gradient	0.01	DF/F

GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HACPP	Accelerometer PROM Presence	PRESENT_DOWNHOLE	
HART	Accelerometer Reference Temperature	77	DEGF
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
HSCO	Hole Size Correction Option	YES	
HSIS	HILT Shale Indicator Selection	GR	
HSSO	HRDD Nuclear Source Strength Option	NORMAL	
HSWCUT	HILT Water Saturation from AITH cutoff	50	%
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.68	G/C3
MHC0	MCFL B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC1	MCFL B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC	MCFL High Contrast Correction Switch	NO	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	72	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	12160.00	FT
TDL	Total Depth - Logger	12174.00	FT
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	248	DEGF
FCD	Future Casing (Outer) Diameter	4.5	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	7.022	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	72	DEGF
FEQL: Formation Evaluation Quick Look			
CSXO	Coefficient of Sxo	1	
DLLM	DPOR Lower Limit for Mineral Detection	0.35	CFCF
EDSE	EPT Data Selector	STANDARD	
FEPT	EPT Option Flag	NONE	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
GDCL	Grain Density Clean Reading	0	G/C3
GDSH	Grain Density Shale Reading	2.9	G/C3
GRCL	Gamma Ray Clean Reading	0	GAPI
GRSH	Gamma Ray Shale Reading	200	GAPI
GULM	Gamma Ray Upper Limit for Mineral Detection	999	GAPI
KGR	Kill GR Shale Index (USE, KILL)	USE	
KPN	Kill NPES Shale Index (USE, KILL)	USE	
KRH	Kill RHGA Shale Index (USE, KILL)	USE	
KSP	Kill SP Shale Index (USE, KILL)	USE	
LSWB	SWB Limit Selector (NO_LIMIT, LIMIT)	NO_LIMIT	
MDET	Mineral Flag (NONE, COAL, SALT)	NONE	
NLIM	Neutron Limit for Mineral Detection	0.01	CFCF
NPCL	NPES Clean Reading	0	CFCF
NPSH	NPES Shale Reading	0.5	CFCF
RWB	Bound Water Resistivity	0.1	OHMM
RXOF	RXO Presence Flag	ABSENT	
SDGC	Clean Grain Density Selector	GDCL	
SEXP	N in Water Saturation Equation	2	
SIS	Three Mineral Shale Index Selector	NOT_USED	
SPCL	SP Clean Reading	-200	MV
SPSB	SP Shale Baseline	0	MV

SPSH	SP Shale Reading	0	MV
SWMN	Sw Minimum	0.05	CFCF
TPCN	Time Propagation of non-shale	7.2	NS/M
TPM1	Time Propagation, Matrix-1 <Limestone>	9.8	NS/M
TPM2	Time Propagation, Matrix-2 <Sandstone>	7.2	NS/M
TPM3	Time Propagation, Matrix-3 <Dolomite>	8.7	NS/M
TPSH	Time Propagation of Shale	8.9	NS/M
System and Miscellaneous			
ALTDPC	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	600.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	36.00	LB/F
DFD	Drilling Fluid Density	9.70	LB/G
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	25.00	FT
MST	Mud Sample Temperature	61.90	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	2.1352	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	12174	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: Porosity_5in Vertical Scale: 5" per 100' Graphics File Created: 15-Feb-2011 22:29

OP System Version: 18C0-147

HAIT-H	18C0-147	DSLT-FTB	18C0-147
HILTH-FTB	18C0-147	DTC-H	18C0-147

Input DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_009LUP	FN:8	PRODUCER	15-Feb-2011 19:25
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Output DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_104PUP	FN:17	PRODUCER	15-Feb-2011 22:29
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Schlumberger

REPEAT ANALYSIS

MAXIS Field Log

Company: Puckett Land Company

Well: RG Federal 4D-34D

Input DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_009LUP	FN:8	PRODUCER	15-Feb-2011 19:25		
DEFAULT	AIT_SONIC_TLD_MCFL_101PUP	FN:14	PRODUCER	15-Feb-2011 22:16	12200.0 FT	11920.0 FT

Output DLIS Files

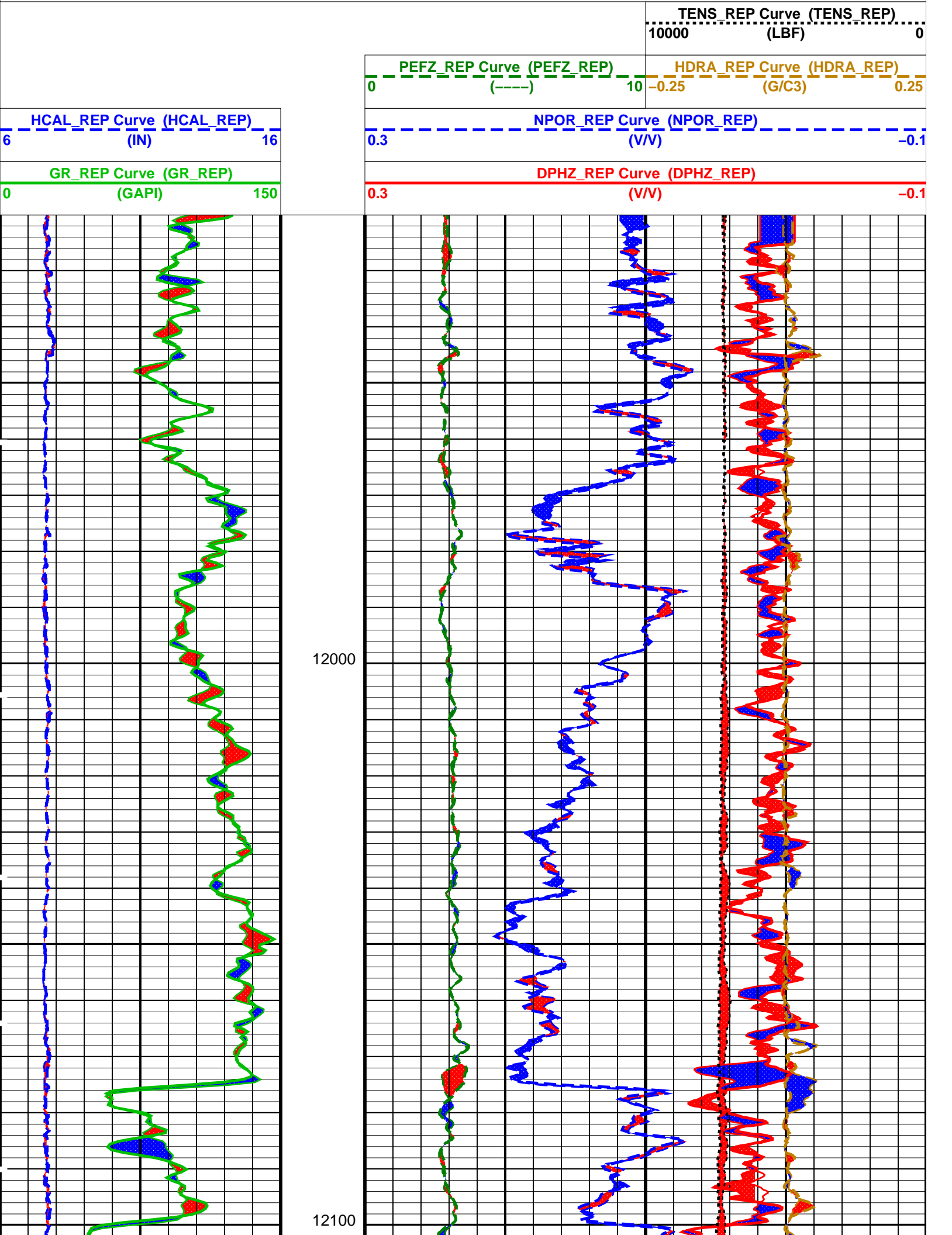
DEFAULT	AIT_SONIC_TLD_MCFL_104PUP	FN:17	PRODUCER	15-Feb-2011 22:29
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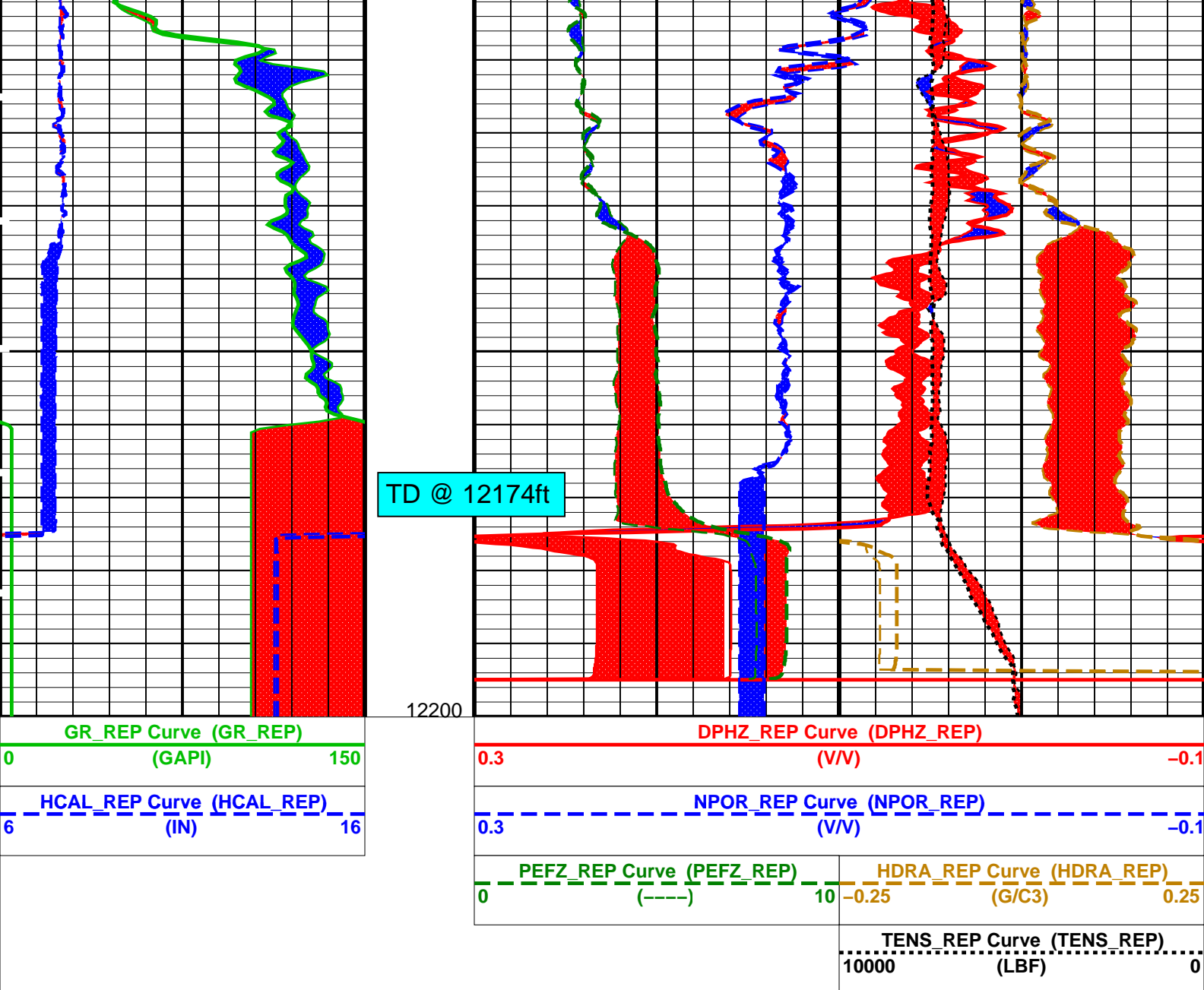
OP System Version: 18C0-147

HAIT-H	18C0-147	DSLT-FTB	18C0-147
HILTH-FTB	18C0-147	DTC-H	18C0-147

PIP SUMMARY

Time Mark Every 60 S





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HAIT-H: Array Induction Tool - H		
AHAPL	Array Induction Answer Product Level(Depth Log/View only)	
	3_BholeCorr_BasicLogs_Radial_Processing	
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
AHBHV	Array Induction Borehole Correction Code Version Number	900
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	223
AHCDE	Array Induction Casing Detection Enable	Yes
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
AHDITM	Array Induction Desired Tool Mode	0x00_Log_000
AHEBC	Array Induction Enable Borehole Correction	Yes
AHEBL	Array Induction Enable Basic Logs	Yes
AHERP	Array Induction Enable Radial Processing	Yes
AHETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes
AHFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20
AHIGS	Array Induction Select Akima Interpolation Gating	On
AHLNV	Array Induction Log Not Valid Flag	Log_Valid-No_Default_Parameters
AHMRD	Array Induction Mud Resistivity Calibration Depth	0 FT
AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20
AHRFV	Array Induction Radial Profiling Code Version Number	701
AHRPM	Array Induction Radial Processing Mode	1_Two
AHRPV	Array Induction Radial Parametrization Code Version Number	232
AUSTA	Array Induction Tool Standoff	1.5 IN

AHSTA	Array Induction Tool Serial Number	1.3	IN
AHTNO	Array Induction Tool Serial Number	392	
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
AHTSE	Array Induction Temperature Selection (Sonde Error Correction)	Internal	
AHTTY	Array Induction Tool Type (of acquired data)	HAIT	
AHULV	Array Induction User Level Control	Normal	
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	248	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	7.022	DEG
GRGD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RTCO	RTCO – Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	72	DEGF
SPNV	SP Next Value	0	MV
DSLTT-FTB: Digitizing			
	Sonic Logging Tool		
	DSLTT Firing Mode	BHC	
	Telemetry Mode	DSLCT_FTBT	
AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	140	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	45	US
CDTS	C-Delta-T Shale	100	US/F
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E2	
DFAD	Digital First Arrival Detection Switch	HOST	
DIVL	DSLTT Depth Sampling Interval	20	
DRCS	DSLTT DLIS Recording Size	100	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLCT Telemetry Frame Size	276	
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizing Word Count	100	
GAI	Manual Gain	40	
HRSP	High Resolution Spacing	5.118	IN
ITTS	Integrated Transit Time Source	DT	
LTUT	Lower to Upper Transmitter Spacing Ratio	1	
MAHTR	Manual High Threshold Reference	120	
MGAI	Maximum Gain	60	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	100	
MODE	Sonic Firing Mode	BHC	
NMSG	Near Minimum Sliding Gate	150	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R15	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	0	DB/F
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	AUTO	
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	50	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	40	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGAJ	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	248	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
EXSICL	External Shale Indicator Clean Value	20	
EXSISH	External Shale Indicator Shale Value	150	
FD	Fluid Density	1	G/C3

FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	7.022	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HACPP	Accelerometer PROM Presence	PRESENT_DOWNHOLE	
HART	Accelerometer Reference Temperature	77	DEGF
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
HSCO	Hole Size Correction Option	YES	
HSIS	HILT Shale Indicator Selection	GR	
HSSO	HRDD Nuclear Source Strength Option	NORMAL	
HSWCUT	HILT Water Saturation from AITH cutoff	50	%
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.68	G/C3
MHC0	MCFL B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC1	MCFL B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC	MCFL High Contrast Correction Switch	NO	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	72	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	12160.00	FT
TDL	Total Depth - Logger	12174.00	FT
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	248	DEGF
FCD	Future Casing (Outer) Diameter	4.5	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	7.022	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	72	DEGF
FEQL: Formation Evaluation Quick Look			
CSXO	Coefficient of Sxo	1	
DLLM	DPOR Lower Limit for Mineral Detection	0.35	CFCF
EDSE	EPT Data Selector	STANDARD	
FEPT	EPT Option Flag	NONE	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
GDCL	Grain Density Clean Reading	0	G/C3
GDSH	Grain Density Shale Reading	2.9	G/C3
GRCL	Gamma Ray Clean Reading	0	GAPI
GRSH	Gamma Ray Shale Reading	200	GAPI
GULM	Gamma Ray Upper Limit for Mineral Detection	999	GAPI
KGR	Kill GR Shale Index (USE, KILL)	USE	
KPN	Kill NPES Shale Index (USE, KILL)	USE	
KRH	Kill RHGA Shale Index (USE, KILL)	USE	
KSP	Kill SP Shale Index (USE, KILL)	USE	
LSWB	SWB Limit Selector (NO_LIMIT, LIMIT)	NO_LIMIT	
MDET	Mineral Flag (NONE, COAL, SALT)	NONE	
NLIM	Neutron Limit for Mineral Detection	0.01	CECF

NEUM	Neutron Limit for Mineral Detection	0.01	
NPCL	NPES Clean Reading	0	CFCF
NPSH	NPES Shale Reading	0.5	CFCF
RWB	Bound Water Resistivity	0.1	OHMM
RXOF	RXO Presence Flag	ABSENT	
SDGC	Clean Grain Density Selector	GDCL	
SEXP	N in Water Saturation Equation	2	
SIS	Three Mineral Shale Index Selector	NOT_USED	
SPCL	SP Clean Reading	-200	MV
SPSB	SP Shale Baseline	0	MV
SPSH	SP Shale Reading	0	MV
SWMN	Sw Minimum	0.05	CFCF
TPCN	Time Propagation of non-shale	7.2	NS/M
TPM1	Time Propagation, Matrix-1 <Limestone>	9.8	NS/M
TPM2	Time Propagation, Matrix-2 <Sandstone>	7.2	NS/M
TPM3	Time Propagation, Matrix-3 <Dolomite>	8.7	NS/M
TPSH	Time Propagation of Shale	8.9	NS/M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	600.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	36.00	LB/F
DFD	Drilling Fluid Density	9.70	LB/G
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	25.00	FT
MST	Mud Sample Temperature	61.90	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	2.1352	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	12174	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: Porosity_5in_REP Vertical Scale: 5" per 100' Graphics File Created: 15-Feb-2011 22:29

OP System Version: 18C0-147

HAIT-H	18C0-147	DSLT-FTB	18C0-147
HILTH-FTB	18C0-147	DTC-H	18C0-147

Input DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_009LUP	FN:8	PRODUCER	15-Feb-2011 19:25		
DEFAULT	AIT_SONIC_TLD_MCFL_101PUP	FN:14	PRODUCER	15-Feb-2011 22:16	12200.0 FT	11920.0 FT

Output DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_104PUP	FN:17	PRODUCER	15-Feb-2011 22:29
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CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Array Induction Tool - H Wellsite Calibration - Electronics Calibration Check - Thru Cal Mag. & Phase							
Master: 14-Feb-2011 12:05 Before: 14-Feb-2011 18:26							
Thru Cal Magnitude - 0	0	0.6254	0.6251	N/A	N/A	N/A	V
Thru Cal Magnitude - 1	0	1.281	1.281	N/A	N/A	N/A	V
Thru Cal Magnitude - 2	0	0.6361	0.6360	N/A	N/A	N/A	V

Thru Cal Magnitude – 3	0	0.7180	0.7178	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.345	1.345	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.956	1.955	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.955	1.954	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.397	1.394	N/A	N/A	N/A	V
Phase – 0	0	66.80	66.60	N/A	N/A	N/A	DEG
Phase – 1	0	65.79	65.58	N/A	N/A	N/A	DEG
Phase – 2	0	62.05	61.83	N/A	N/A	N/A	DEG
Phase – 3	0	61.28	61.06	N/A	N/A	N/A	DEG
Phase – 4	0	54.95	54.71	N/A	N/A	N/A	DEG
Phase – 5	0	53.10	52.85	N/A	N/A	N/A	DEG
Phase – 6	0	53.11	52.85	N/A	N/A	N/A	DEG
Phase – 7	0	49.83	49.43	N/A	N/A	N/A	DEG

Array Induction Tool – H Wellsite Calibration – Electronics Calibration Check – Auxilliary

Master: 14–Feb–2011 12:05 Before: 14–Feb–2011 18:26

Array Induction SPA Plus	990.5	991.6	991.4	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	–0.1658	–0.1718	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9150	0.9180	0.9178	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	–0.0001706	–0.0001724	N/A	N/A	N/A	V

Array Induction Tool – H Wellsite Calibration – Test Loop Gain Correction

Master: 14–Feb–2011 12:05

Test Loop Gain Magnitude – 0	0	1.009	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 1	0	1.007	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 2	0	1.013	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 3	0	1.009	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 4	0	0.9905	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 5	0	0.9866	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 6	0	0.9972	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 7	0	1.005	N/A	N/A	N/A	N/A	V
Phase – 0	0	0.7373	N/A	N/A	N/A	N/A	DEG
Phase – 1	0	0.6740	N/A	N/A	N/A	N/A	DEG
Phase – 2	0	0.1368	N/A	N/A	N/A	N/A	DEG
Phase – 3	0	0.2430	N/A	N/A	N/A	N/A	DEG
Phase – 4	0	0.1270	N/A	N/A	N/A	N/A	DEG
Phase – 5	0	–0.1091	N/A	N/A	N/A	N/A	DEG
Phase – 6	0	0.2121	N/A	N/A	N/A	N/A	DEG
Phase – 7	0	–0.1506	N/A	N/A	N/A	N/A	DEG

Array Induction Tool – H Wellsite Calibration – Sonde Error Correction

Master: 14–Feb–2011 12:05

R Sonde Error Correction – 0	0	–125.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	175.7	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	111.7	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	55.55	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	26.03	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	13.91	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	8.453	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	–2.474	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	–562.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	–197.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	–147.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	15.22	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	–6.467	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	–5.642	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	–10.64	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	–9.860	N/A	N/A	N/A	N/A	MM/M

Array Induction Tool – H Wellsite Calibration – Mud Gain Correction

Master: 14–Feb–2011 12:05

Coarse – Mag, Real, Imag – 0	0	0.9395	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 1	0	0.9395	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 2	0	0.9395	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 0	0	0.9376	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 1	0	0.9376	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 2	0	0.9376	N/A	N/A	N/A	N/A

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Stab Measurement Summary

Before: 14–Feb–2011 18:35

BS Window Ratio	0.7352	N/A	0.7382	N/A	N/A	N/A	
BS Window Sum	29550	N/A	29590	N/A	N/A	N/A	CPS
SS Window Ratio	0.4749	N/A	0.4754	N/A	N/A	N/A	
SS Window Sum	11820	N/A	11790	N/A	N/A	N/A	CPS
LS Window Ratio	0.2988	N/A	0.3026	N/A	N/A	N/A	
LS Window Sum	1411	N/A	1399	N/A	N/A	N/A	CPS

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

Before: 14–Feb–2011 18:35

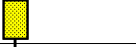

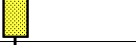





BS PM High Voltage (Command)	1531	N/A	1524	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1406	N/A	1405	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1406	N/A	1405	N/A	N/A	N/A	V

LS PM High Voltage (Command)		1432	N/A	1441	N/A	N/A	N/A	V
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration								
Before: 14–Feb–2011 18:35								
BS Crystal Resolution	11.54	N/A	11.29	N/A	N/A	N/A	N/A	%
SS Crystal Resolution	9.348	N/A	9.548	N/A	N/A	N/A	N/A	%
LS Crystal Resolution	8.938	N/A	9.222	N/A	N/A	N/A	N/A	%
High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration								
Before: 14–Feb–2011 18:43								
Raw B0 Resistivity	3875	N/A	3901	N/A	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3846	N/A	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3834	N/A	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration								
Before: 14–Feb–2011 18:43								
HILT Caliper Zero Measurement	8.000	N/A	7.210	N/A	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	11.51	N/A	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration								
Before: 14–Feb–2011 18:44								
Gamma Ray Background	30.00	N/A	102.7	N/A	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkgd)	165.0	N/A	166.3	N/A	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement								
Master: 13–Feb–2011 13:04 Before: 14–Feb–2011 18:33								
CNTC Background	28.81	28.81	27.50	N/A	N/A	4.322	CPS	
CFTC Background	37.74	37.74	31.32	N/A	N/A	5.661	CPS	
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement								
Master: 13–Feb–2011 13:04								
Thermal Near Corr. (Tank)	5800	5210	N/A	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2187	N/A	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.382	N/A	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration								
Before: 15–Feb–2011 17:06								
Z–Axis Acceleration	32.19	N/A	32.11	N/A	N/A	N/A	N/A	F/S2
The GLS–VJ source activity is acceptable.								
The HGNS Neutron Master Calibration was done with the following parameters :								
NCT–B Water Temperature	66.1	DEGF.						
Thermal Housing Size	3.371	IN.						
NSR–F serial number	1260							



Array Induction Tool – H / Equipment Identification			
Primary Equipment:			
Rm/SP Bottom Nose		AHRM – A	
Array Induction Sonde		AHIS – BA	295
Auxiliary Equipment:			







Array Induction Tool – H Wellsite Calibration							
Electronics Calibration Check – Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.6254		0.6050	66.80		71.00
	Before	0.6251			66.60		
1	Master	1.281		1.270	65.79		70.00
	Before	1.281			65.58		
2	Master	0.6361		0.6230	62.05		66.00
	Before	0.6360			61.83		
3	Master	0.7180		0.7040	61.28		65.00
	Before	0.7178			61.06		




4	Master	1.345		1.337	54.95		59.00
	Before	1.345			54.71		
5	Master	1.956		1.955	53.10		57.00
	Before	1.955			52.85		
6	Master	1.955		1.955	53.11		57.00
	Before	1.954			52.85		
7	Master	1.397		1.415	49.83		53.00
	Before	1.394			49.43		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 14-Feb-2011 12:05				Before: 14-Feb-2011 18:26			




Array Induction Tool – H Wellsite Calibration							
Electronics Calibration Check – Auxilliary							
Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master			991.6	Master			-0.1658
Before			991.4	Before			-0.1718
941.0 (Minimum)		990.5 (Nominal)	1040 (Maximum)	-50.00 (Minimum)		0 (Nominal)	50.00 (Maximum)
Phase	Array Induction Temperature Plus V		Value	Phase	Array Induction Temperature Zero V		Value
Master			0.9180	Master			-0.0001706
Before			0.9178	Before			-0.0001724
0.8700 (Minimum)		0.9150 (Nominal)	0.9600 (Maximum)	-0.05000 (Minimum)		0 (Nominal)	0.05000 (Maximum)
Master: 14-Feb-2011 12:05				Before: 14-Feb-2011 18:26			




Array Induction Tool – H Wellsite Calibration							
Test Loop Gain Correction							
Idx	Value	Test Loop Gain Magnitude V			Value	Phase DEG	
0	1.009				0.7373		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.007				0.6740		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.013				0.1368		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.009				0.2430		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	0.9905				0.1270		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	0.9866				-0.1091		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	0.9972				0.2121		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.005				-0.1506		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Master: 14-Feb-2011 12:05							



Array Induction Tool – H Wellsite Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MM/M		Value	X Sonde Error Correction MM/M			
0	-125.3			-562.3				
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)

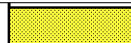

Phase	BS Window Ratio		Value	Phase	SS Window Ratio		Value	Phase	LS Window Ratio		Value
Before			0.7382	Before			0.4754	Before			0.3026
	0.6985 (Minimum)	0.7352 (Nominal)	0.7720 (Maximum)		0.4512 (Minimum)	0.4749 (Nominal)	0.4987 (Maximum)		0.2839 (Minimum)	0.2988 (Nominal)	0.3138 (Maximum)
Phase	BS Window Sum CPS		Value	Phase	SS Window Sum CPS		Value	Phase	LS Window Sum CPS		Value
Before			29590	Before			11790	Before			1399
	28070 (Minimum)	29550 (Nominal)	31020 (Maximum)		11230 (Minimum)	11820 (Nominal)	12410 (Maximum)		1340 (Minimum)	1411 (Nominal)	1481 (Maximum)
Before: 14-Feb-2011 18:35											





High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Photo-multiplier High Voltages Calibrations											
Phase	BS PM High Voltage (Command) V		Value	Phase	SS PM High Voltage (Command) V		Value	Phase	LS PM High Voltage (Command) V		Value
Before			1524	Before			1405	Before			1441
	1431 (Minimum)	1531 (Nominal)	1631 (Maximum)		1306 (Minimum)	1406 (Nominal)	1506 (Maximum)		1332 (Minimum)	1432 (Nominal)	1532 (Maximum)
Before: 14-Feb-2011 18:35											




High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Crystal Quality Resolutions Calibration											
Phase	BS Crystal Resolution %		Value	Phase	SS Crystal Resolution %		Value	Phase	LS Crystal Resolution %		Value
Before			11.29	Before			9.548	Before			9.222
	10.54 (Minimum)	11.54 (Nominal)	12.54 (Maximum)		8.348 (Minimum)	9.348 (Nominal)	10.35 (Maximum)		7.938 (Minimum)	8.938 (Nominal)	9.938 (Maximum)
Before: 14-Feb-2011 18:35											


High resolution Integrated Logging Tool-DTS Wellsite Calibration											
MCFL Calibration											
Phase	Raw B0 Resistivity OHMM		Value	Phase	Raw B1 Resistivity OHMM		Value	Phase	Raw B2 Resistivity OHMM		Value
Before			3901	Before			3846	Before			3834
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)
Before: 14-Feb-2011 18:43											

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
HILT Caliper Calibration							
Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			7.210	Before			11.51
6.000 (Minimum)		8.000 (Nominal)	10.00 (Maximum)	9.000 (Minimum)		12.00 (Nominal)	15.00 (Maximum)
Before: 14-Feb-2011 18:43							

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig – Bkgd) GAPI			Value		
Before				102.7	Before				166.3		
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)			157.1 (Minimum)	165.0 (Nominal)	206.3 (Maximum)			
Before: 14-Feb-2011 18:44											

High resolution Integrated Logging Tool-DTS Wellsite Calibration																	
Zero Measurement																	
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value								
Master				28.81	Master				37.74								
Before				27.50	Before				31.32								
5.000 (Minimum)				28.81 (Nominal)	40.00 (Maximum)				5.000 (Minimum)				37.74 (Nominal)	40.00 (Maximum)			
Master: 13-Feb-2011 13:04						Before: 14-Feb-2011 18:33											

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Ratio Measurement											
Phase	Thermal Near Corr. (Tank) CPS		Value	Phase	Thermal Far Corr. (Tank) CPS		Value	Phase	CNTC/CFTC (Tank)		Value
Master			5210	Master			2187	Master			2.382
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

High resolution Integrated Logging Tool-DTS		
Wellsite Calibration		
Accelerometer Calibration		
Phase	Z-Axis Acceleration F/S2	Value
Before		32.11
31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)
Before: 15-Feb-2011 17:06		

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge
DTC-H Telemetry Cartridge

DTCH - A
DTCH - A

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC

Company: **Puckett Land Company****Schlumberger**Well: **RG Federal 4D-34D**Field: **Ryan Gulch**County: **Rio Blanco**State: **Colorado**

COMPENSATED NEUTRON / LITHODENSITY

GAMMA RAY - SP