

Company: Lamont Doherty
Well: Expedition 323 Site U1343E
Field: Bering Sea
Rig: JOIDES Resolution **Country:** USA

Rig: JOIDES Resolution Field: Bering Sea Location: Latitude: N 57° 33.38' Well: Expedition 323 Site U1343E Company: Lamont Doherty	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">LOCATION</td> </tr> <tr> <td style="width: 50%;">Latitude: N 57° 33.38'</td> <td style="width: 50%;">Elev.: K.B. 11.00 m</td> </tr> <tr> <td>Longitude: W 175° 48.99'</td> <td>G.L. -1967.50 m</td> </tr> <tr> <td></td> <td>D.F. 11.00 m</td> </tr> <tr> <td>Permanent Datum: _____</td> <td>Elev.: 0.00 m _____</td> </tr> <tr> <td>Log Measured From: _____</td> <td>11.00 m above Perm. Datum</td> </tr> <tr> <td>Drilling Measured From: _____</td> <td></td> </tr> </table>	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: _____	Elev.: 0.00 m _____	Log Measured From: _____	11.00 m above Perm. Datum	Drilling Measured From: _____	
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: _____	Elev.: 0.00 m _____														
Log Measured From: _____	11.00 m above Perm. Datum														
Drilling Measured From: _____															
APS Porosity HLDS Lithodensity Natural Gamma Spectroscopy															
Ocean: Pacific	Max. Well Deviation: 0 deg														
Logging Date: 12-Aug-2009	Longitude: N 57° 33.38'														
Run Number: 1	Latitude: W 175° 48.99'														

Depth Driller	2711.8 m
Schlumberger Depth	2711.5 m
Bottom Log Interval	2698.6 m
Top Log Interval	2091.5 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
Maximum Recorded Temperatures	15 degC @ 15 @ 15
Circulation Stopped	Time 20-Jul-2009 11:00
Logger On Bottom	Time 12-Aug-2009 16:50
Unit Number	625003 Houston
Recorded By	C. Furman
Witnessed By	T. Liu, G. Guerin

Logging Date			
Run Number	1	Run 1	Run 2
Depth Driller	2711.8 m		
Schlumberger Depth	2711.5 m		
Bottom Log Interval	2698.6 m		
Top Log Interval	2091.5 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		
Maximum Recorded Temperatures	15 degC @ 15 @ 15		
Circulation Stopped	Time 20-Jul-2009 11:00		
Logger On Bottom	Time 12-Aug-2009 16:50		
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DISCLAIMER

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OTHER SERVICES1

OS1: FMS
 OS2: DSI
 OS3: HNGS
 OS4: DIT




REMARKS: RUN NUMBER 1

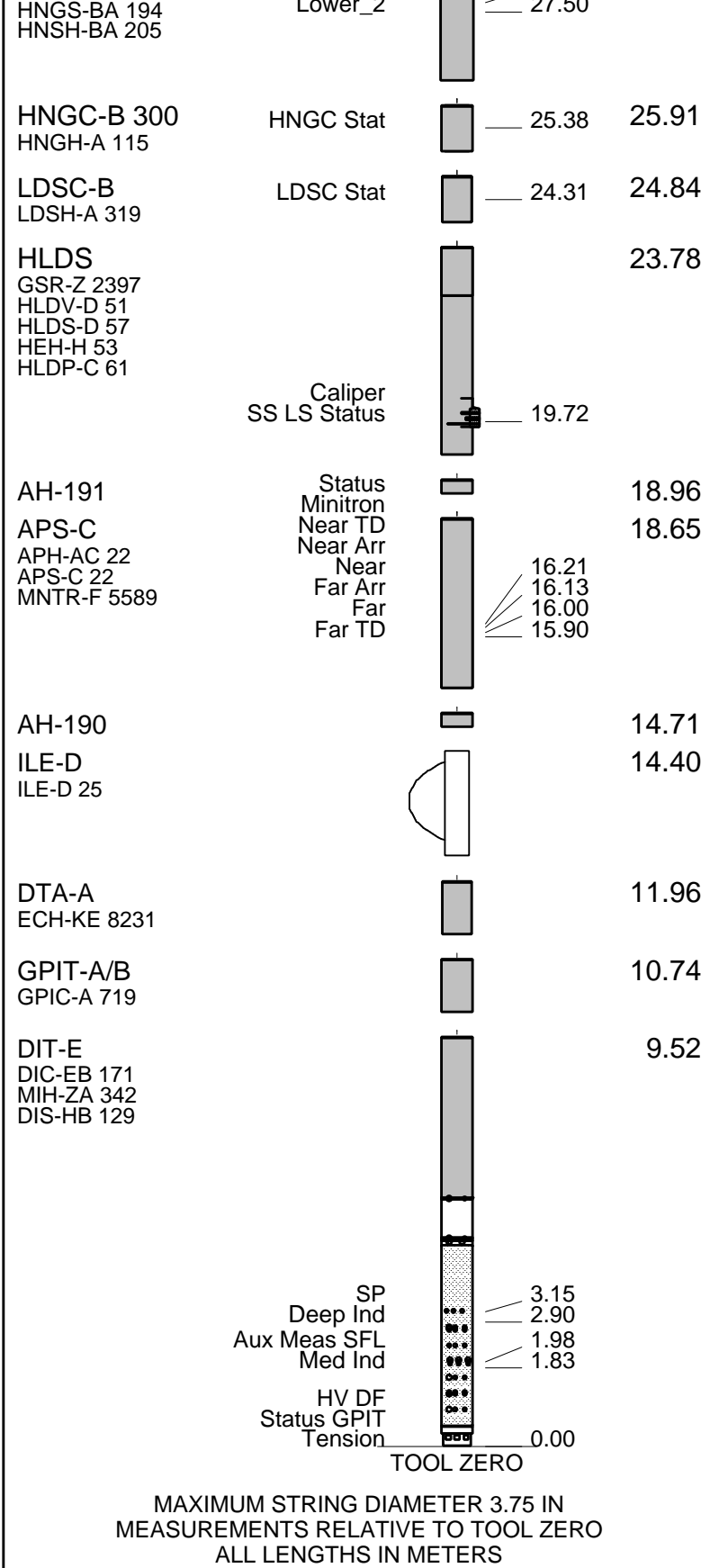
Logs run in fifth hole ("E" hole) of drilling site U1343 to aid in correlation of core data collected in surface labs.
 Average heave during the run was only 0.2m; Active Heave Compensator used.
 TD was found to be 2711.5mBRF with the pipe (bit) at 2066mBRF. Sea Bed given as 1967.5mBRF.
 Hole Size input 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
			28.41



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

Kelly Bushing Elevation

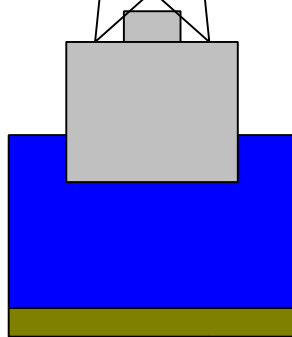
Derrick Floor Elevation

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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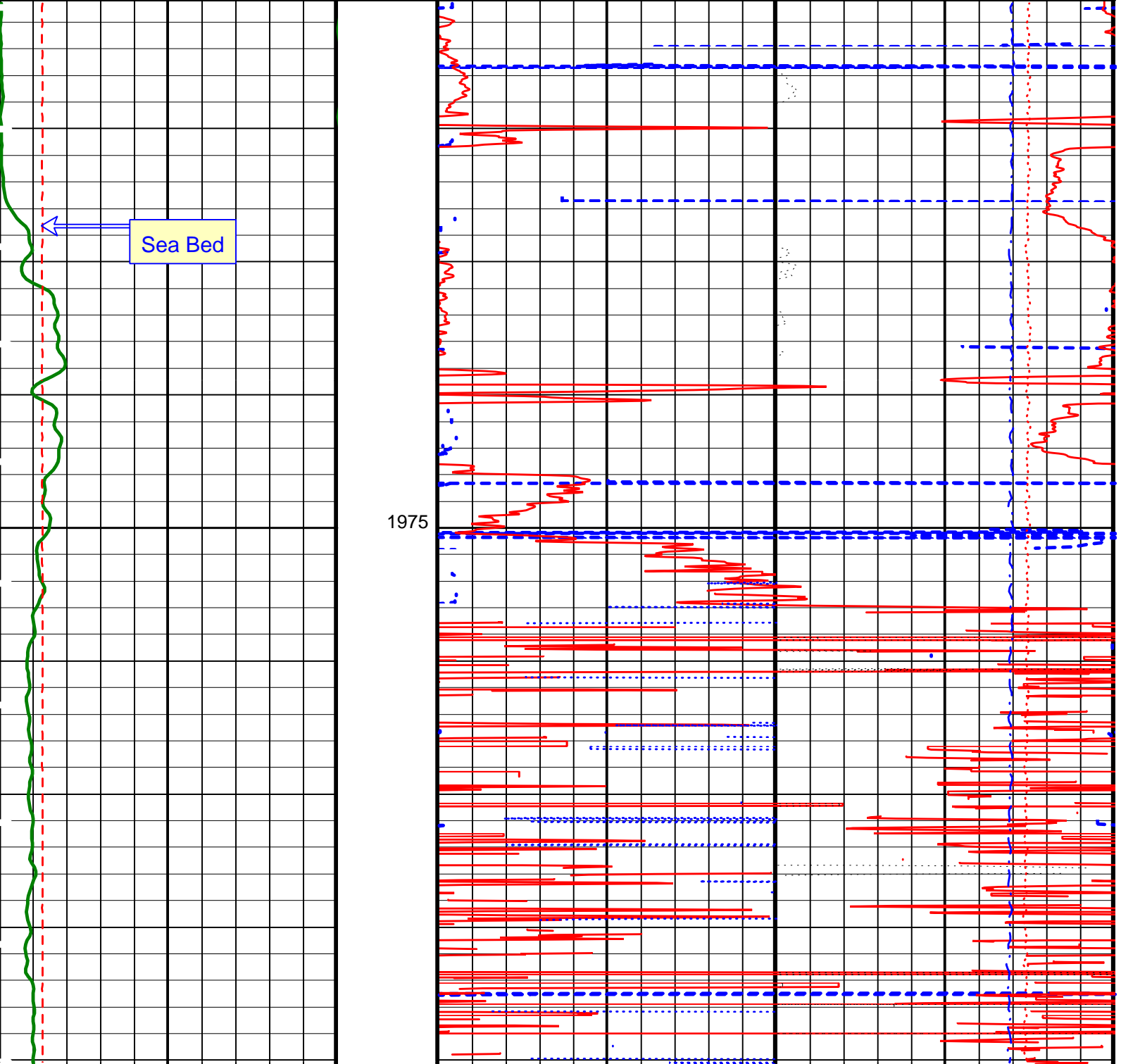
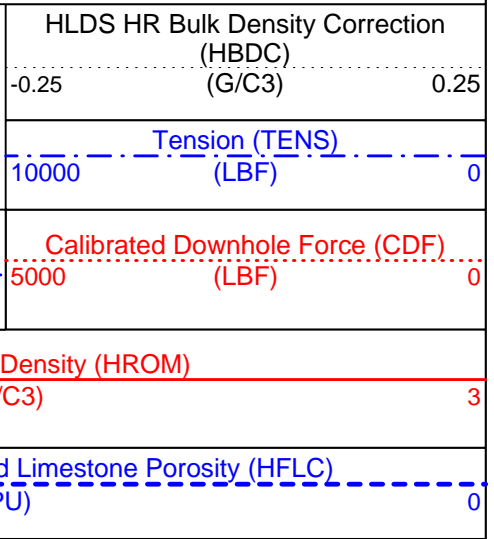
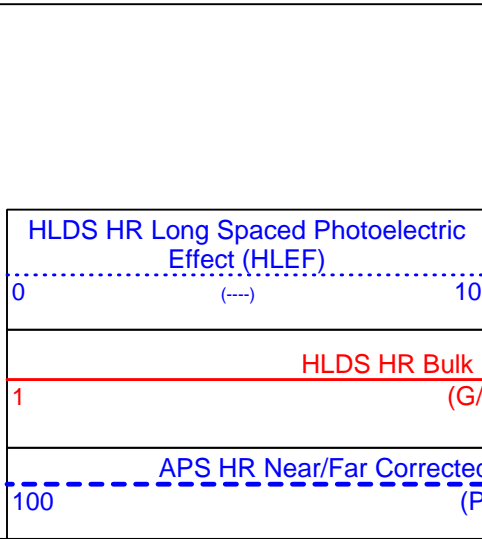
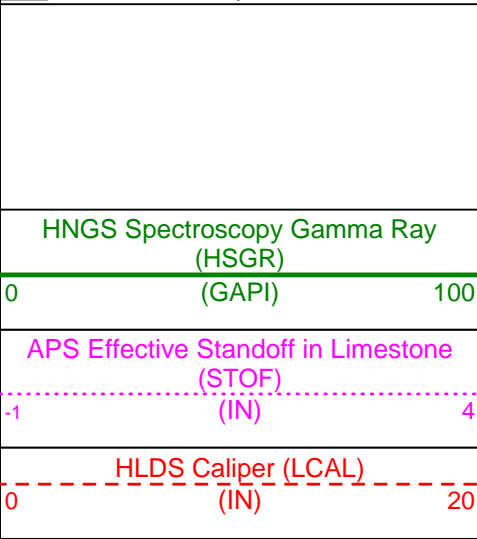
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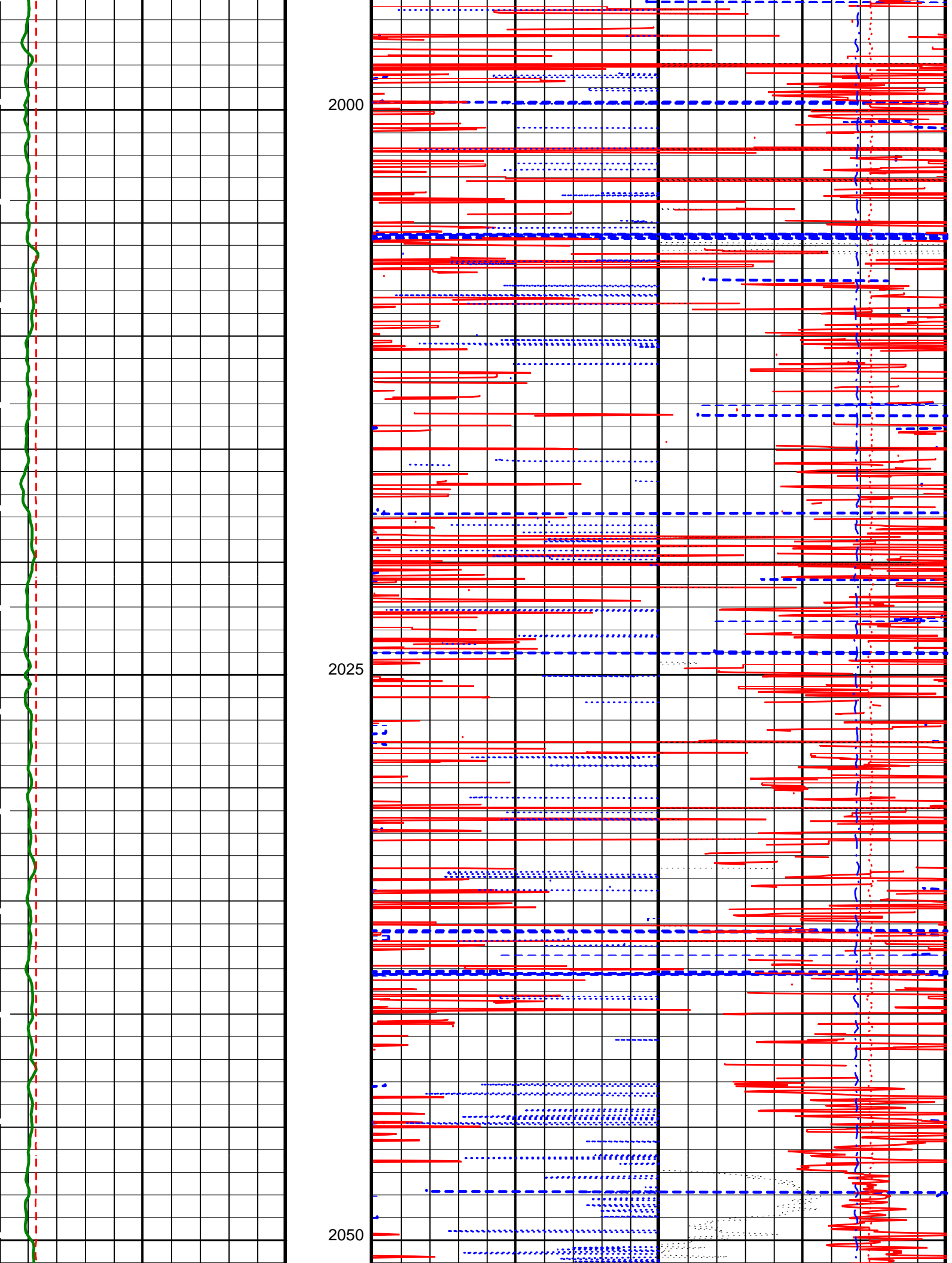
DEFAULT	PI_APS_LDL_NGS_082PUP	FN:37	PRODUCER	13-Aug-2009 13:26	2712.0 M	1955.1 M
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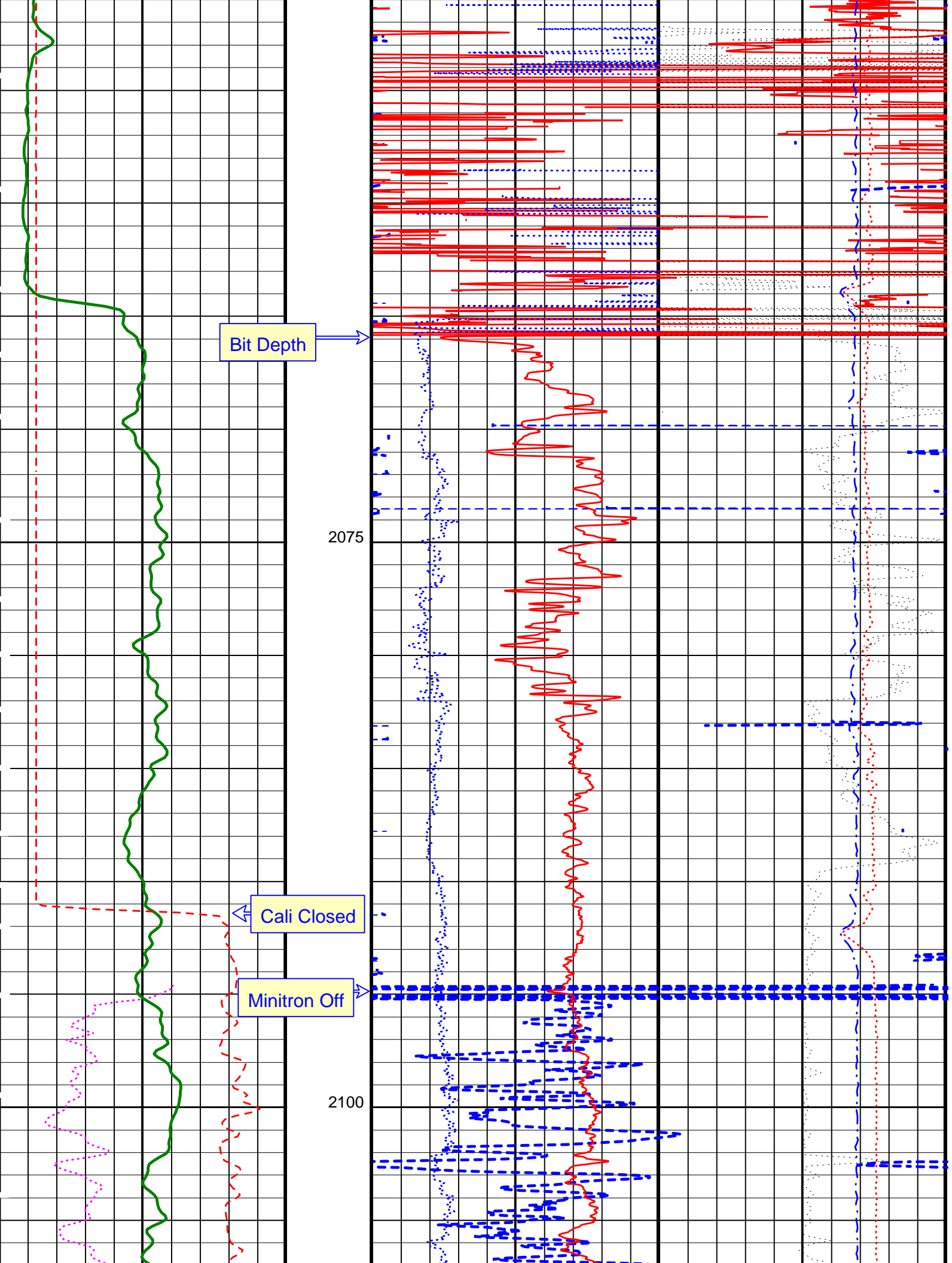
OP System Version: 17C0-154

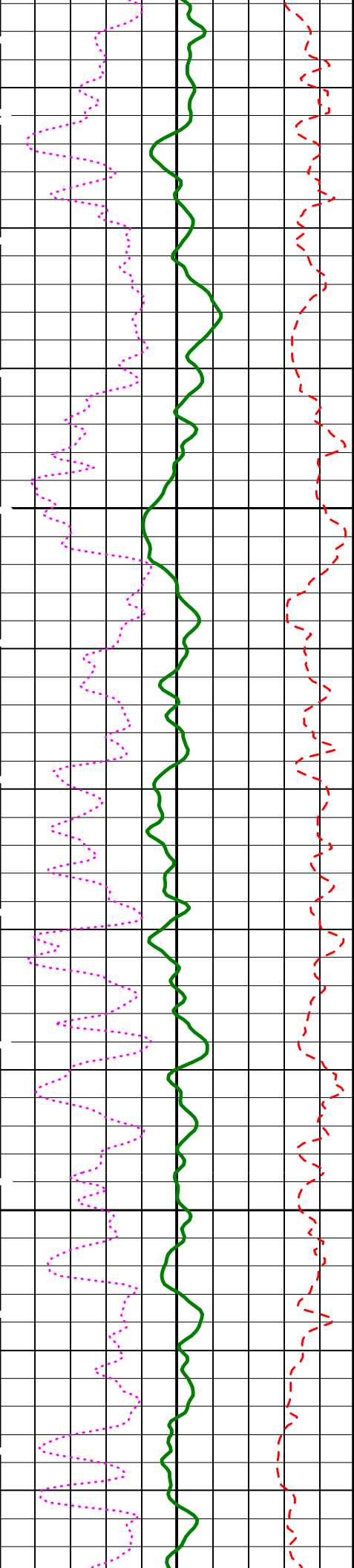
DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

Time Mark Every 60 S



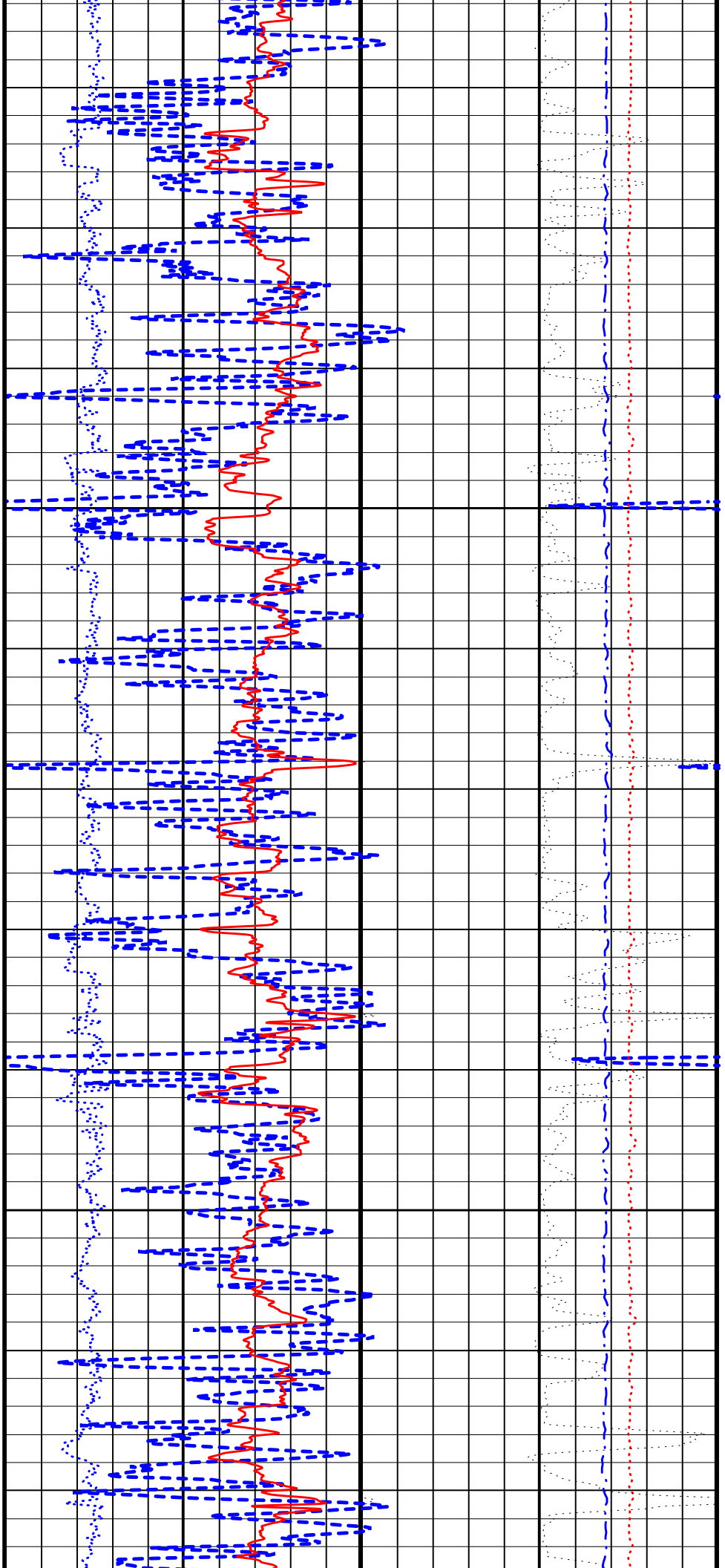


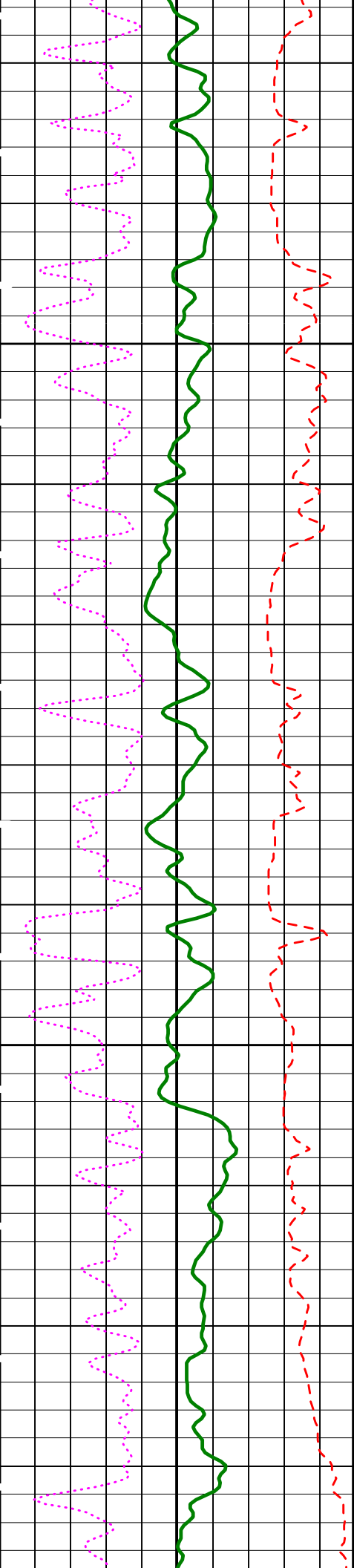




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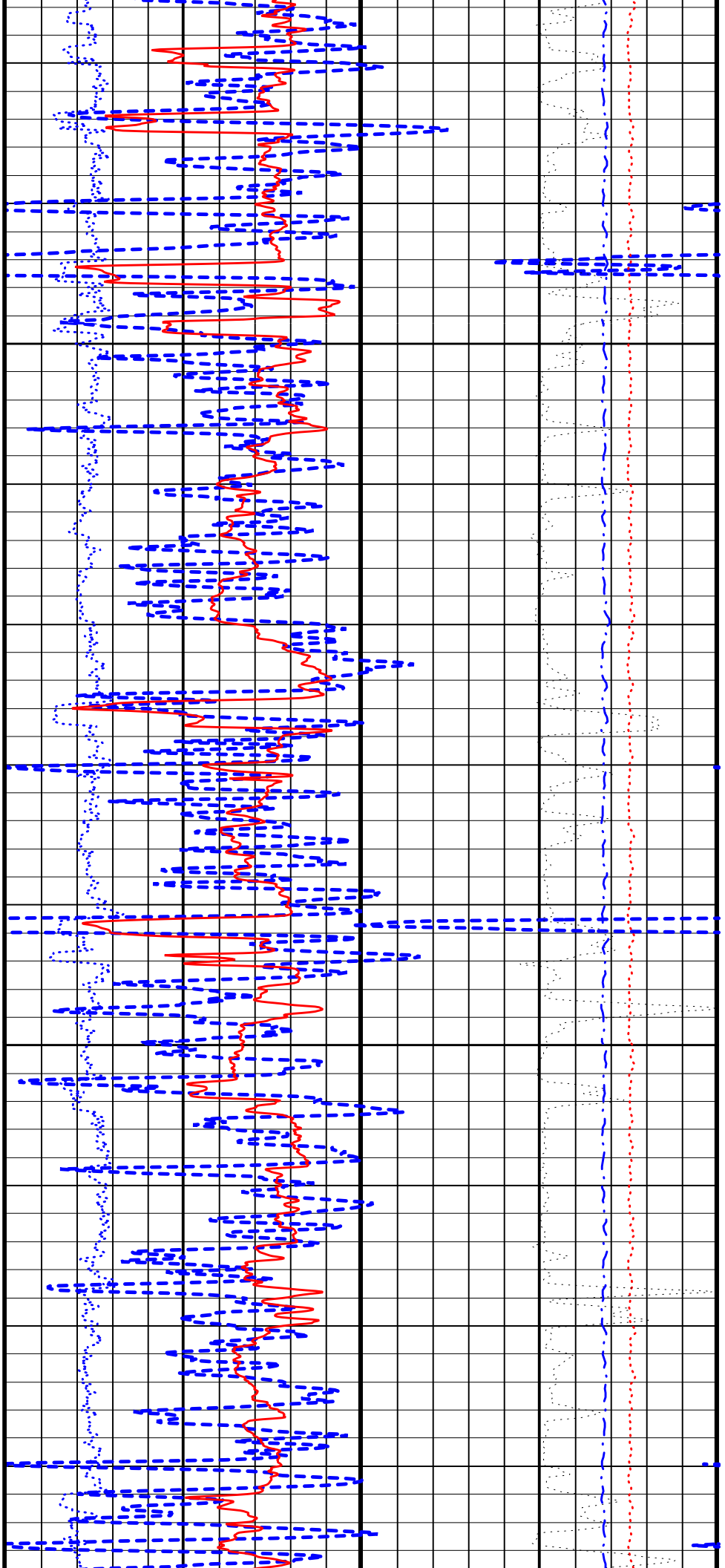
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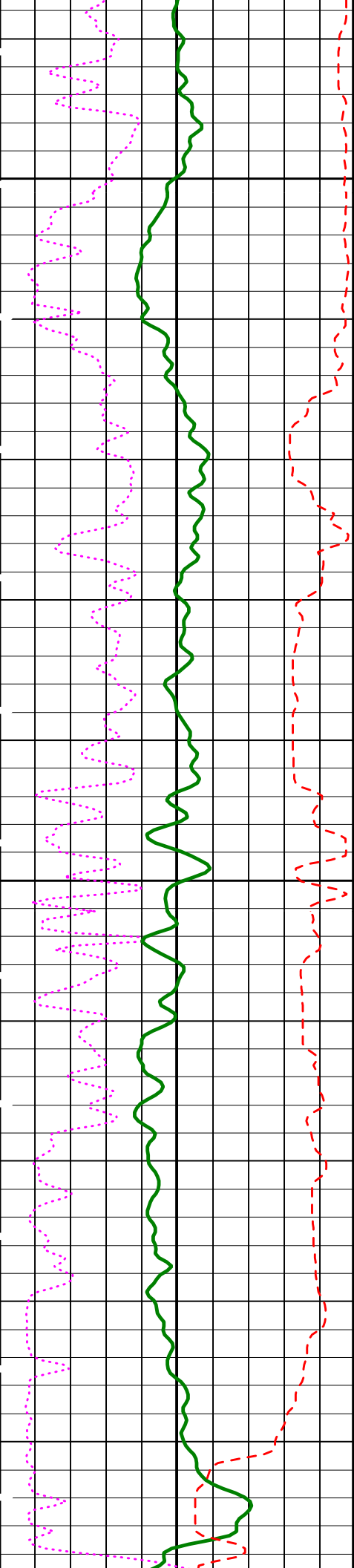




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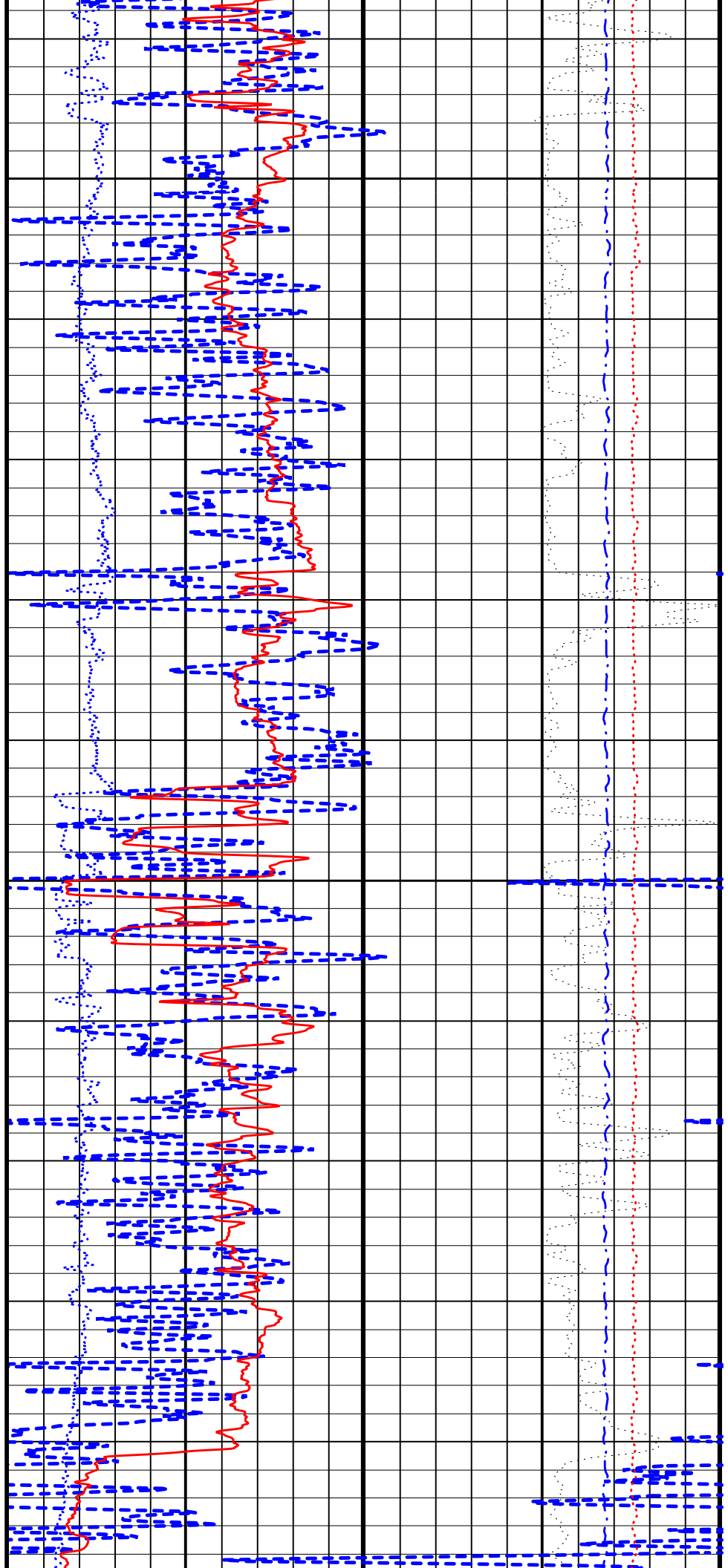
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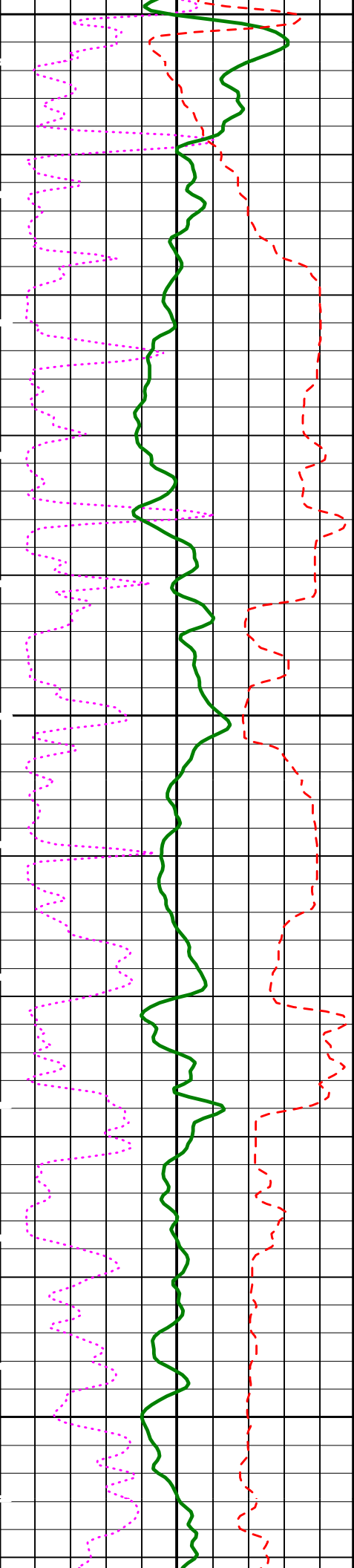




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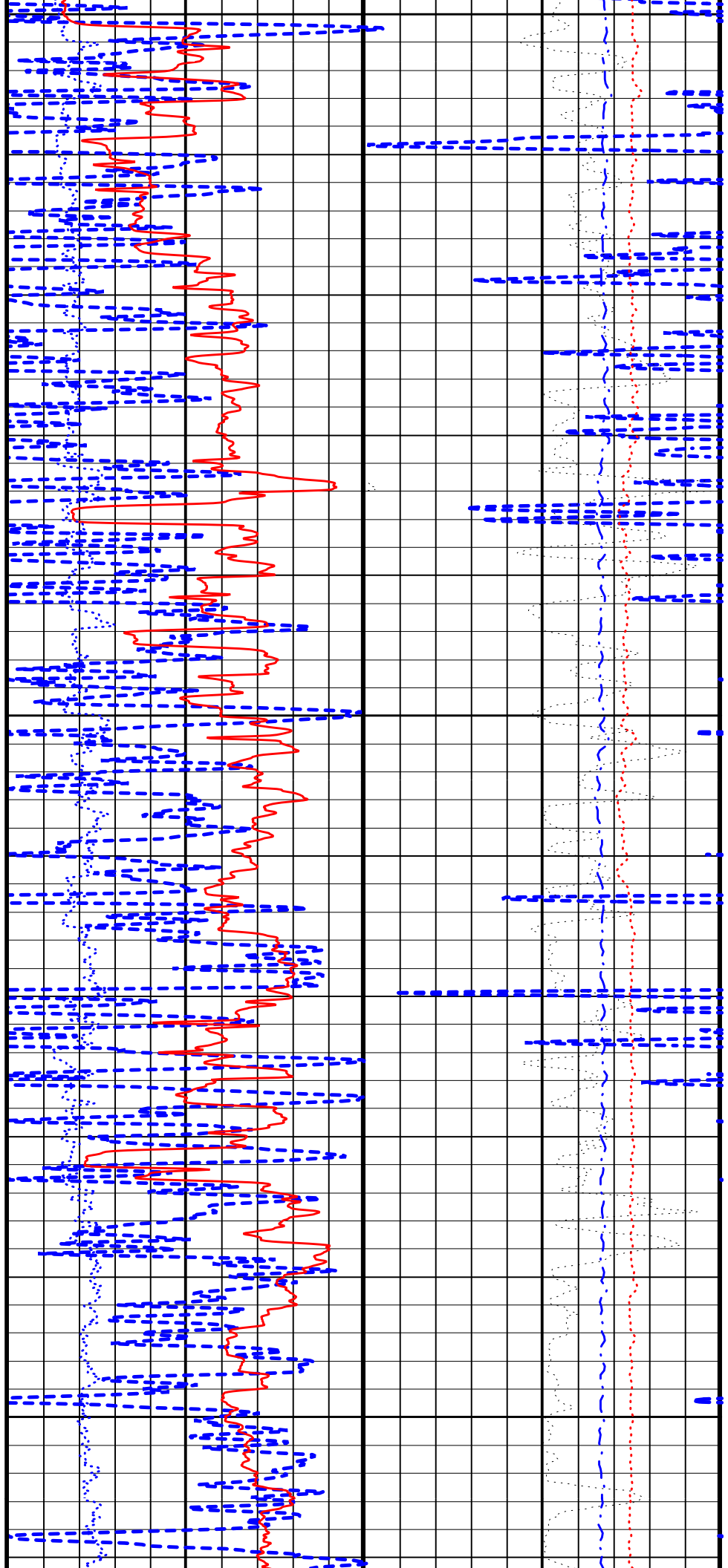


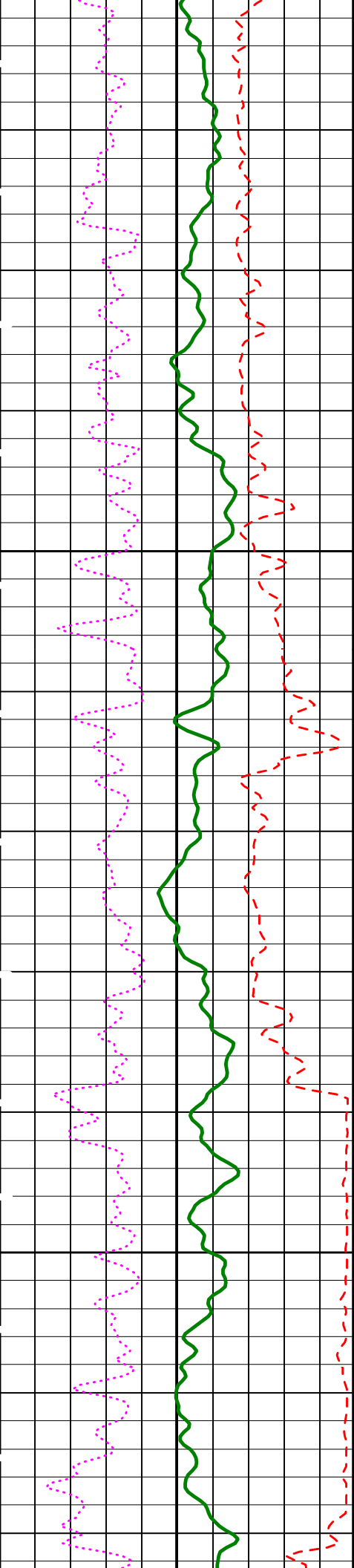


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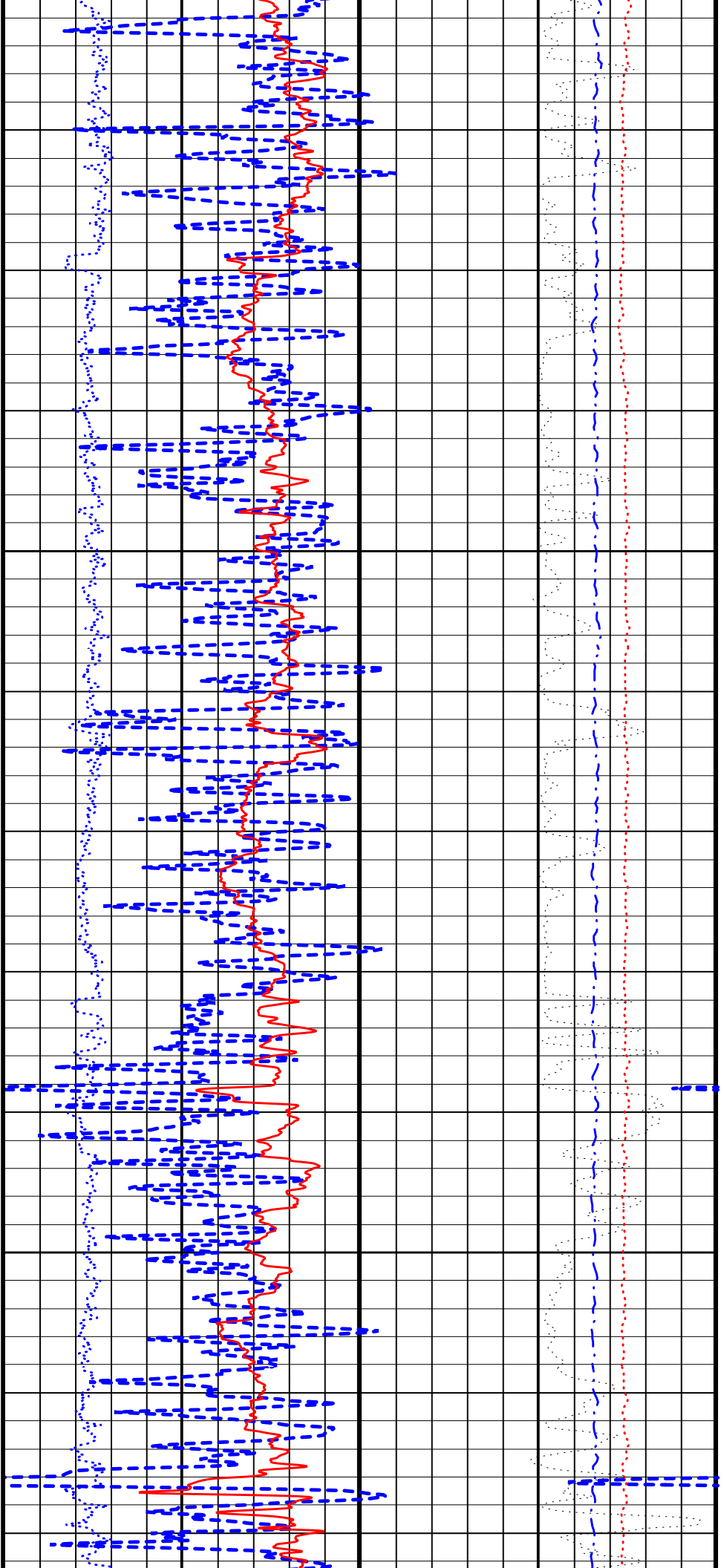
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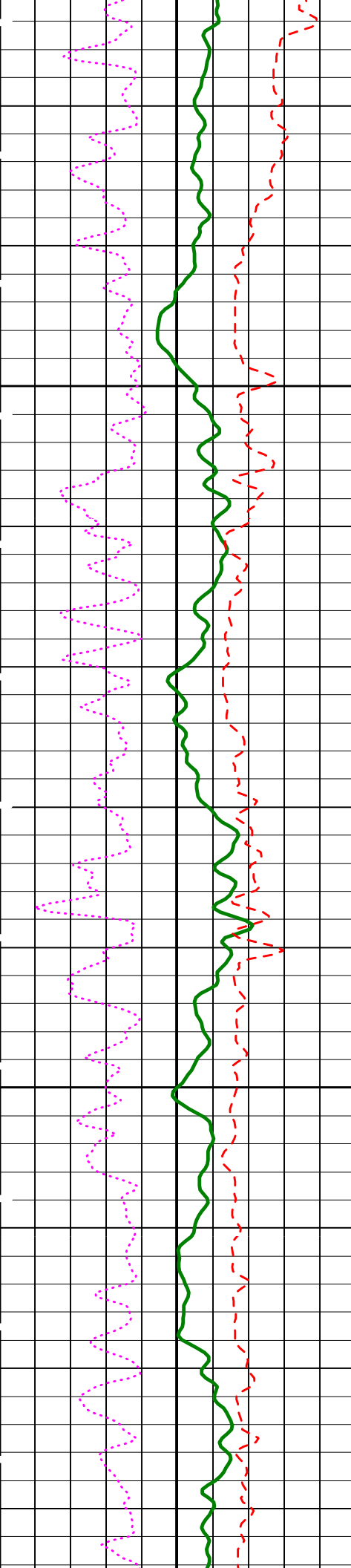




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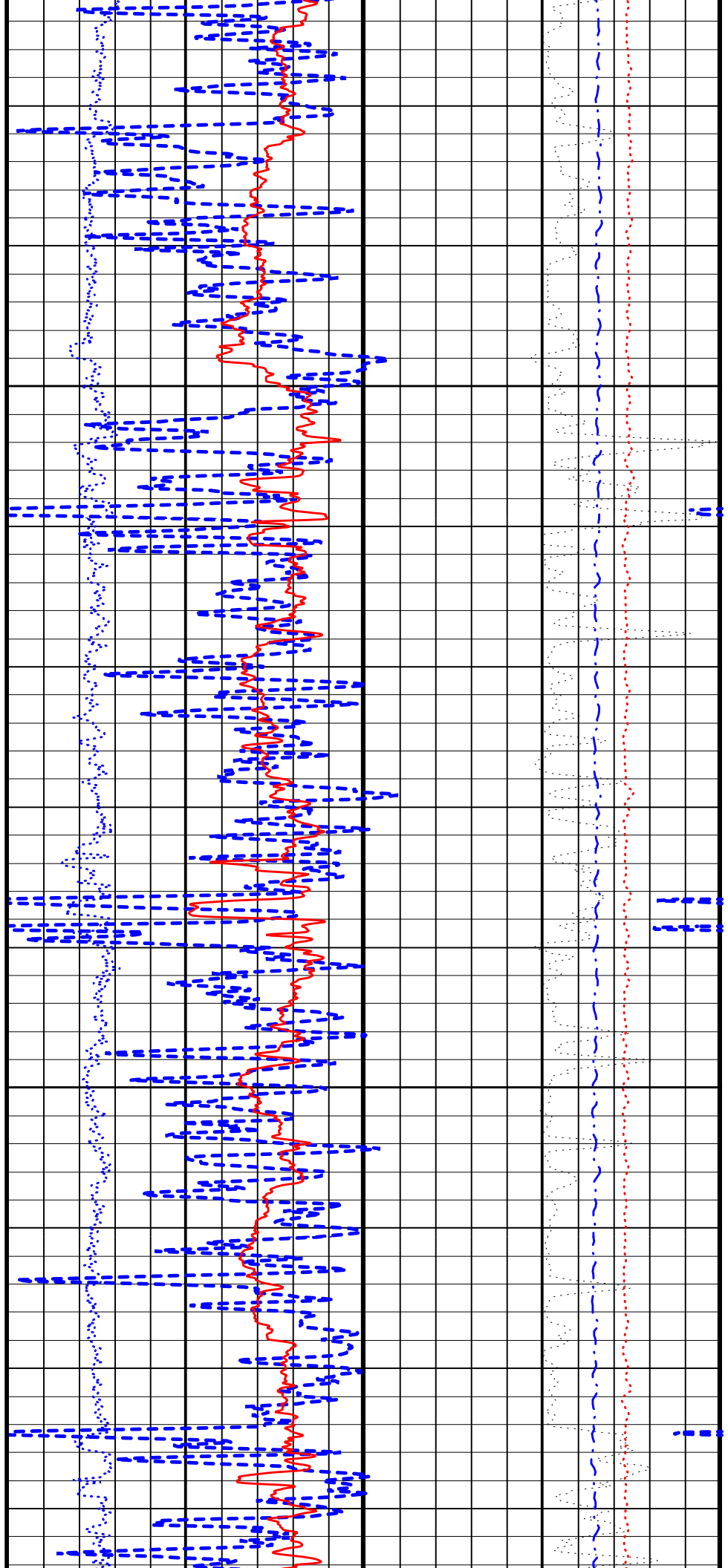
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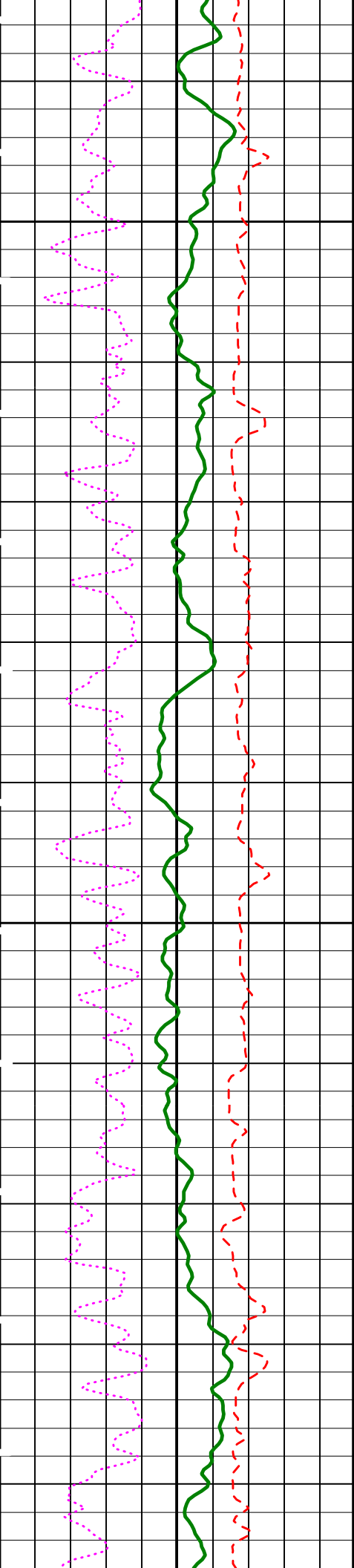




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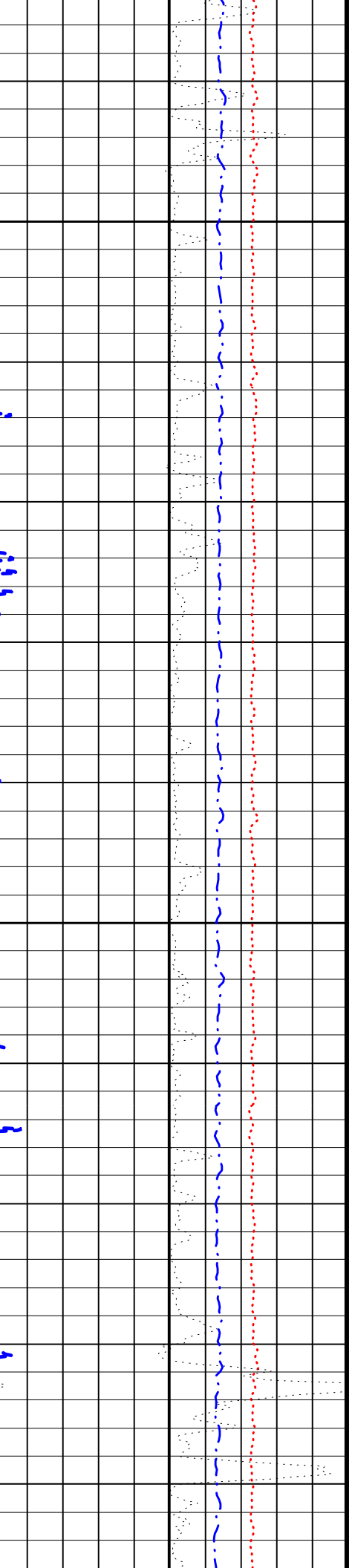
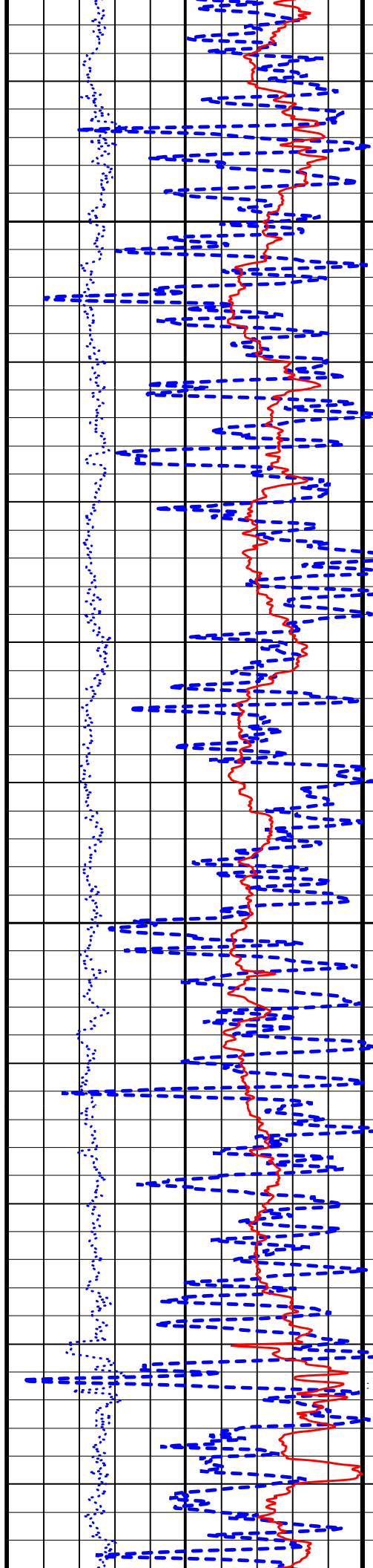
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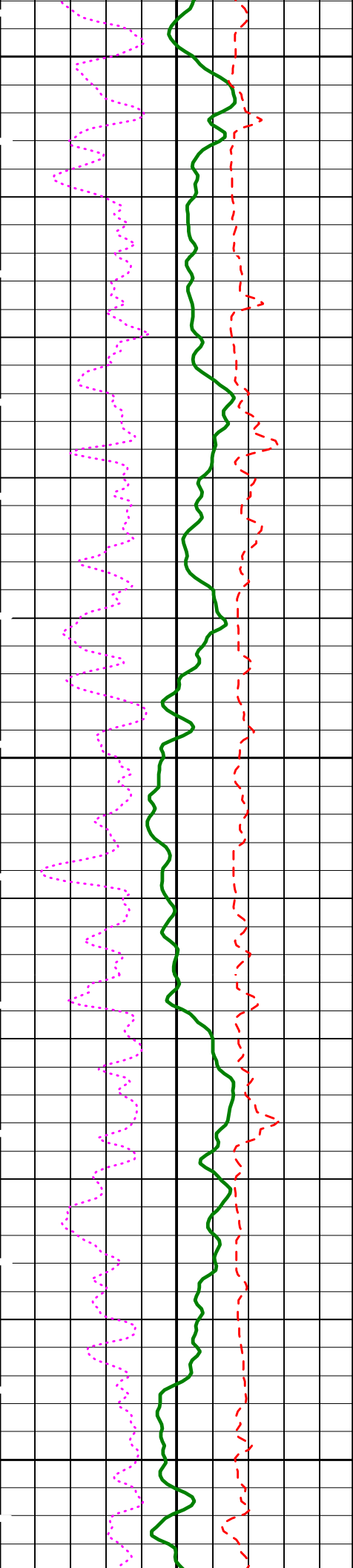




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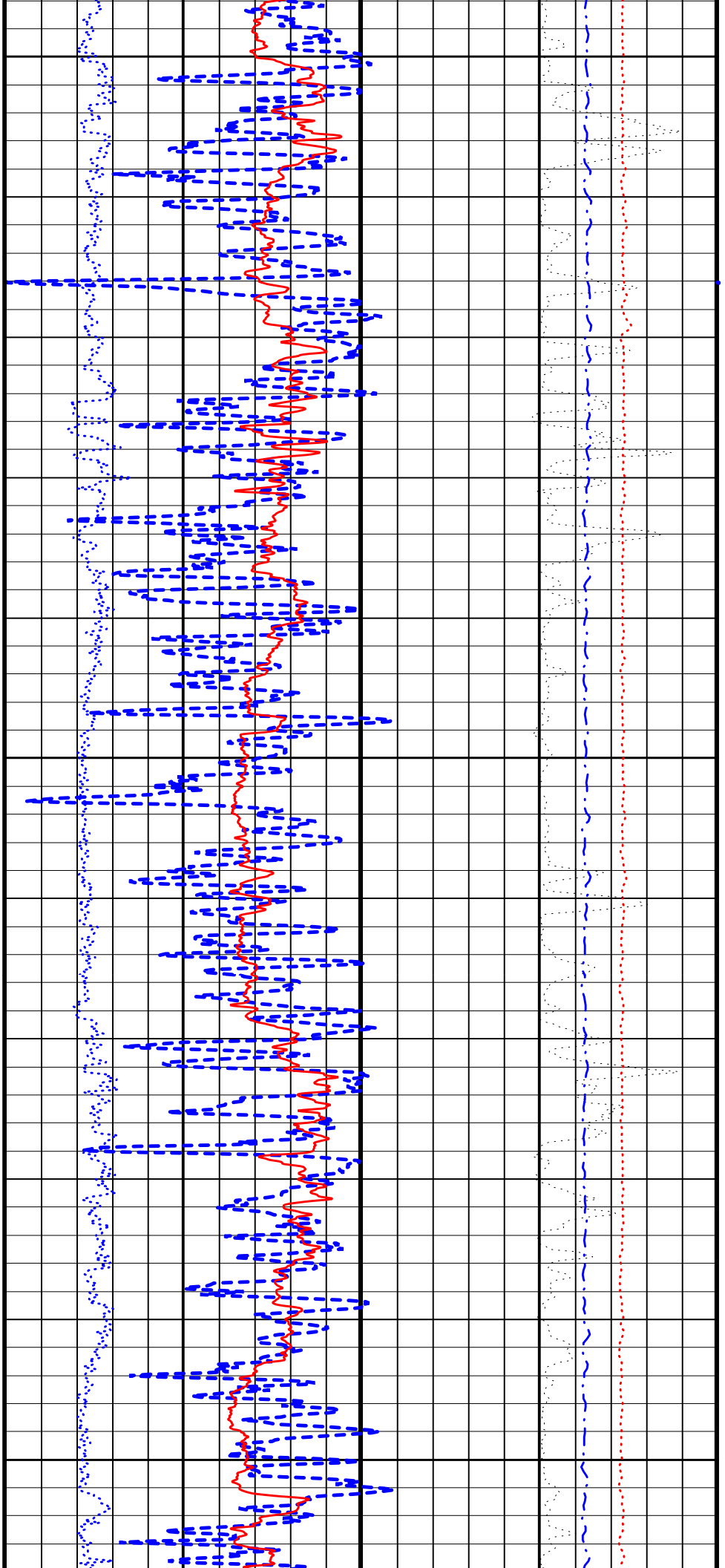


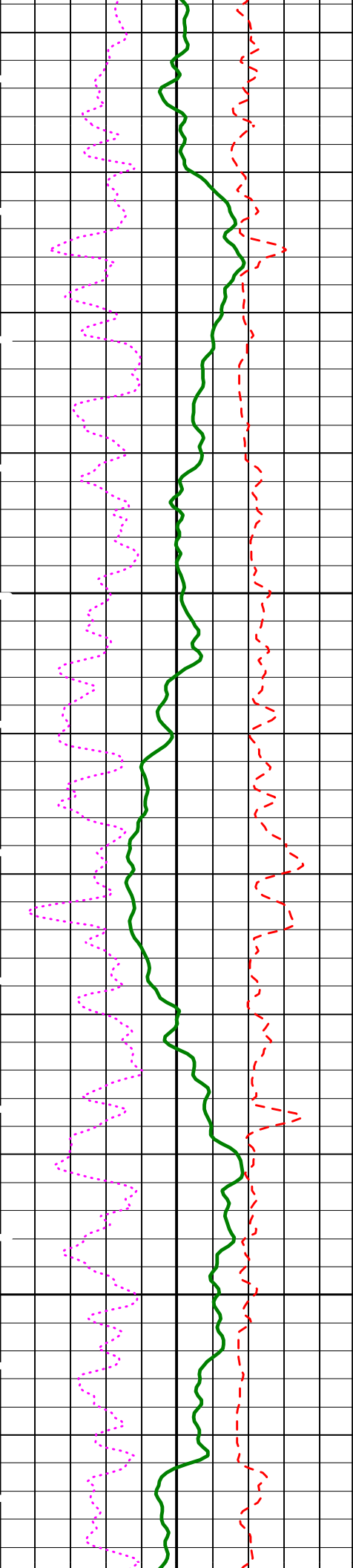


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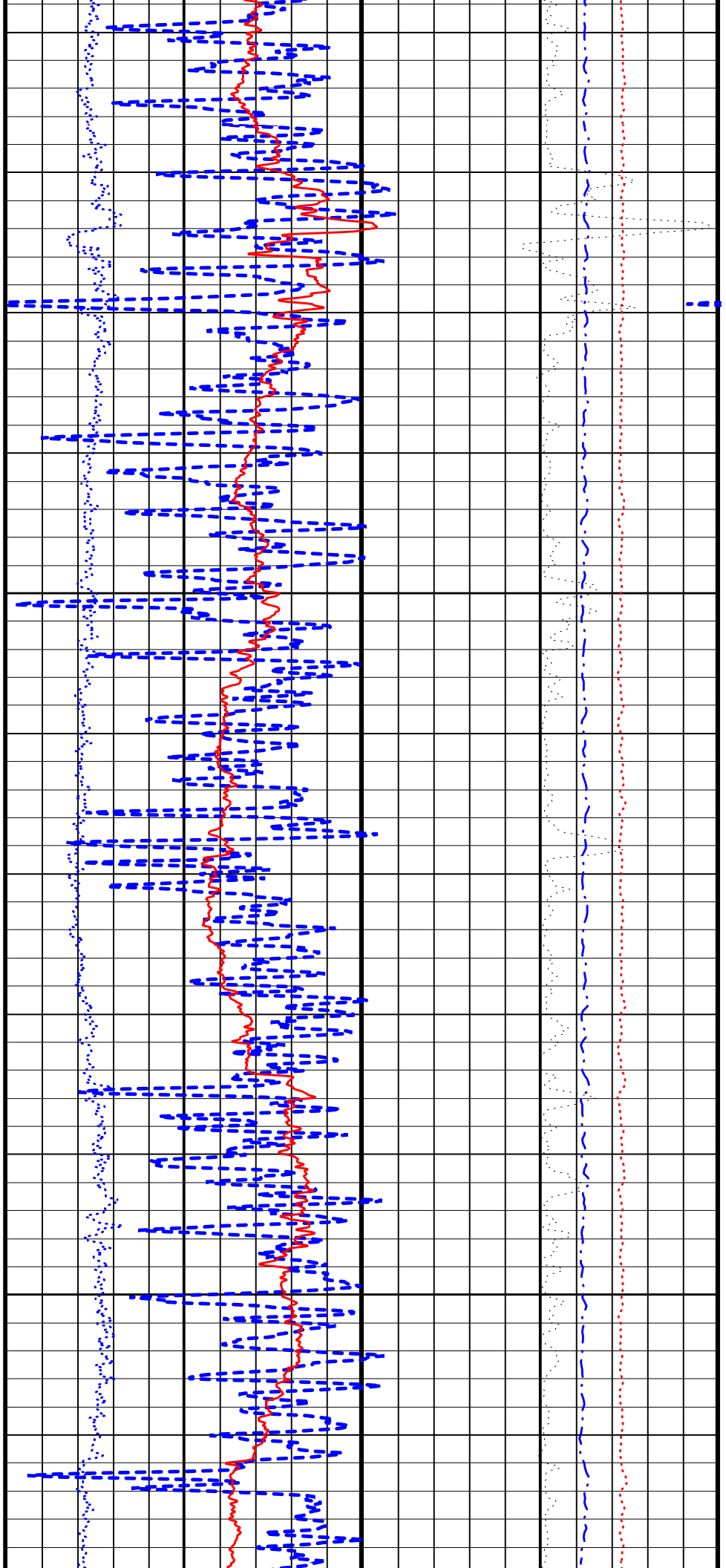
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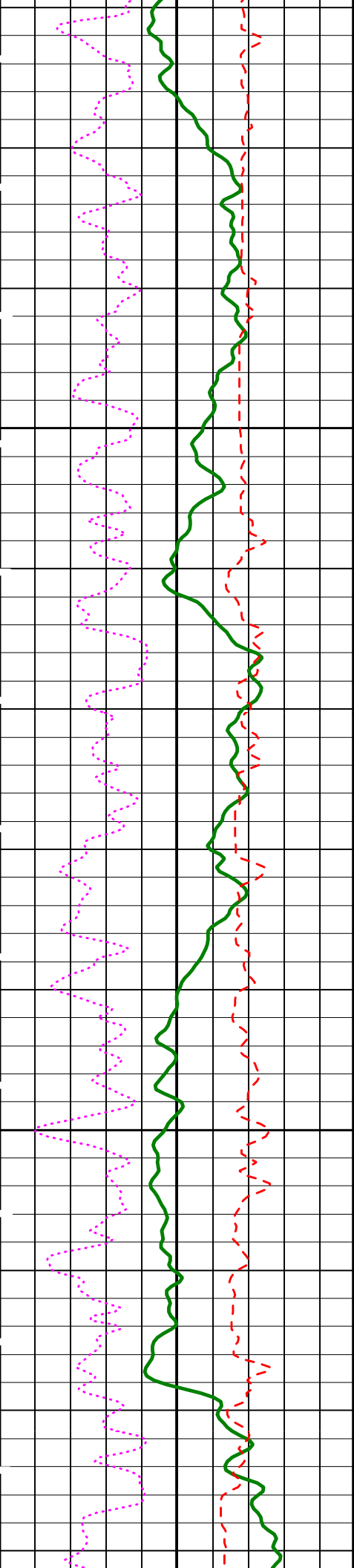




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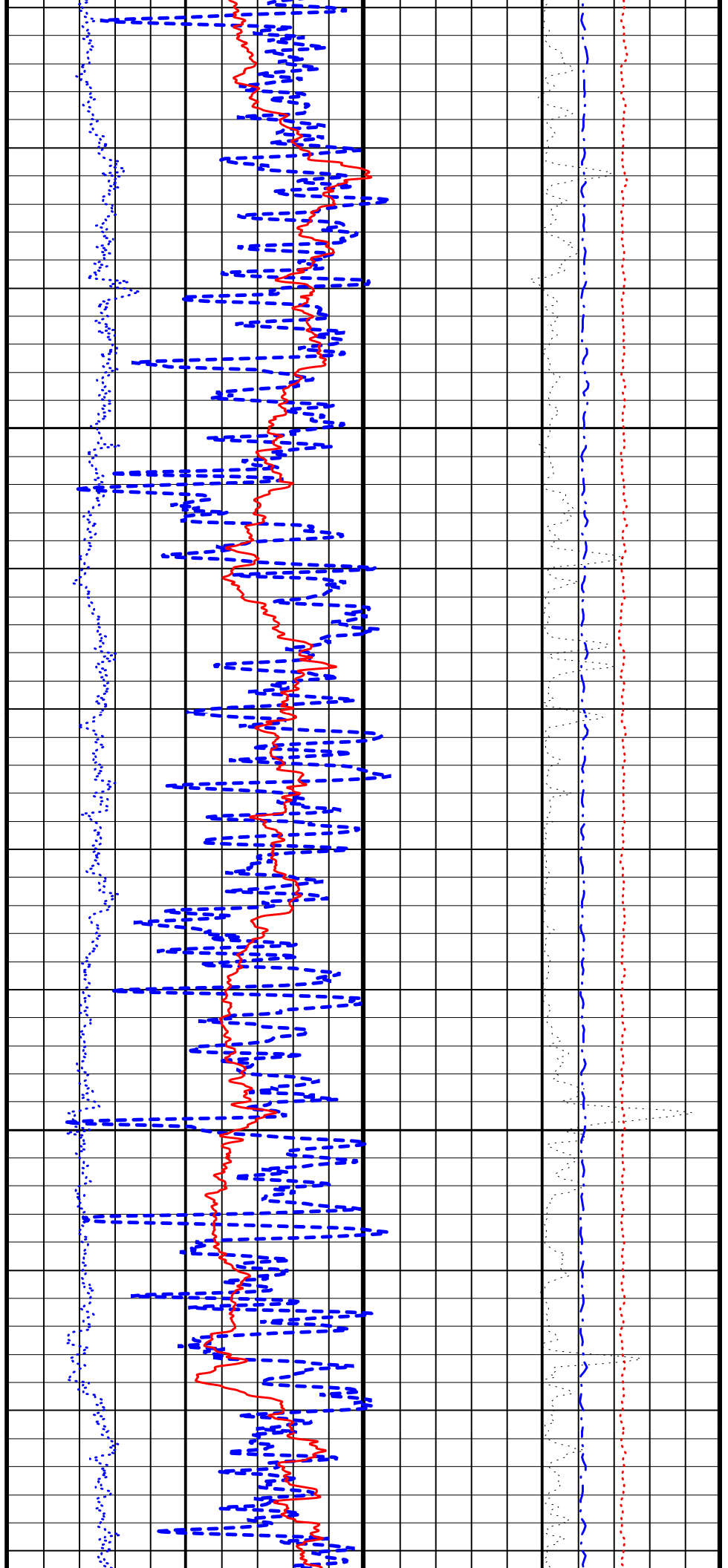
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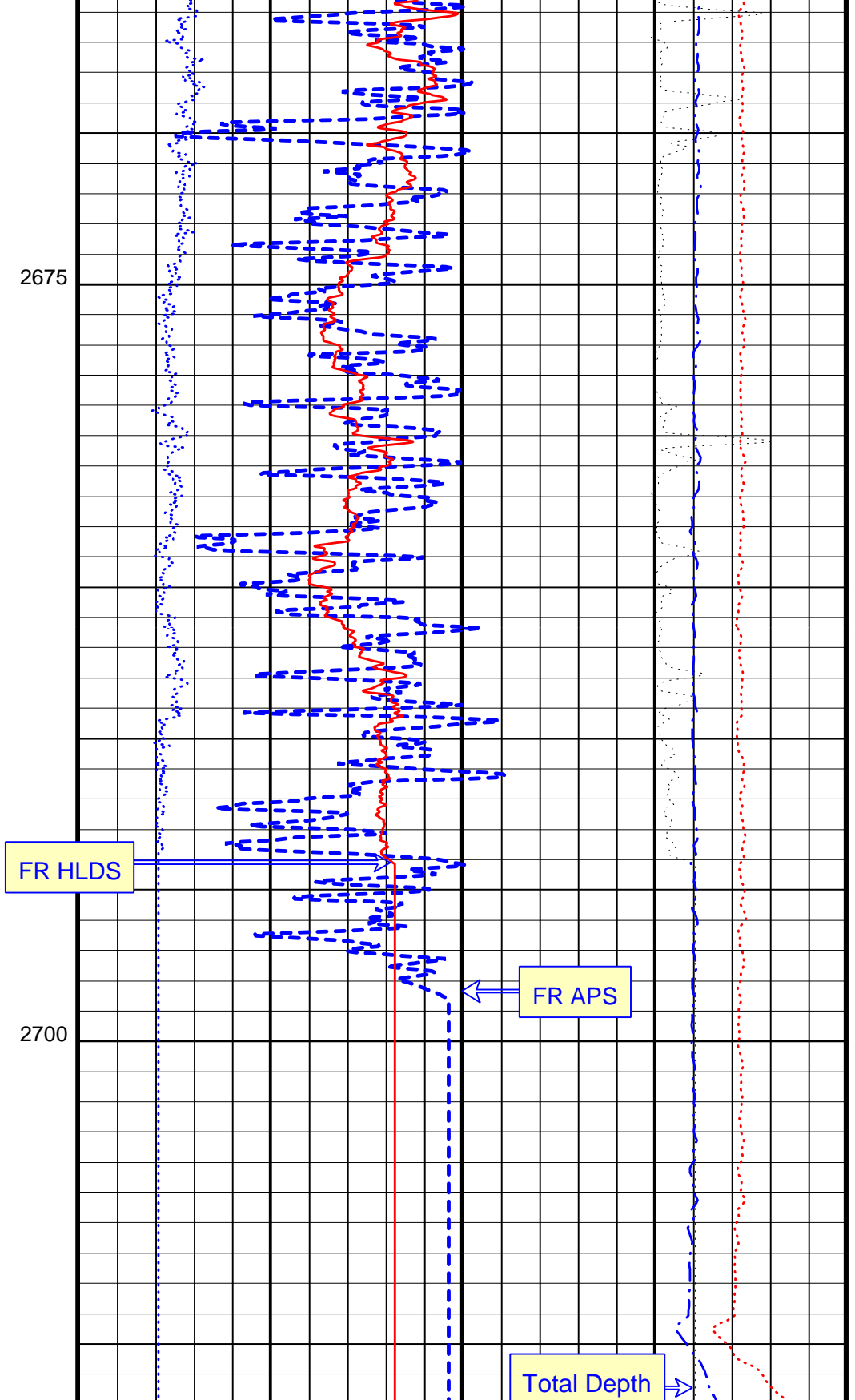
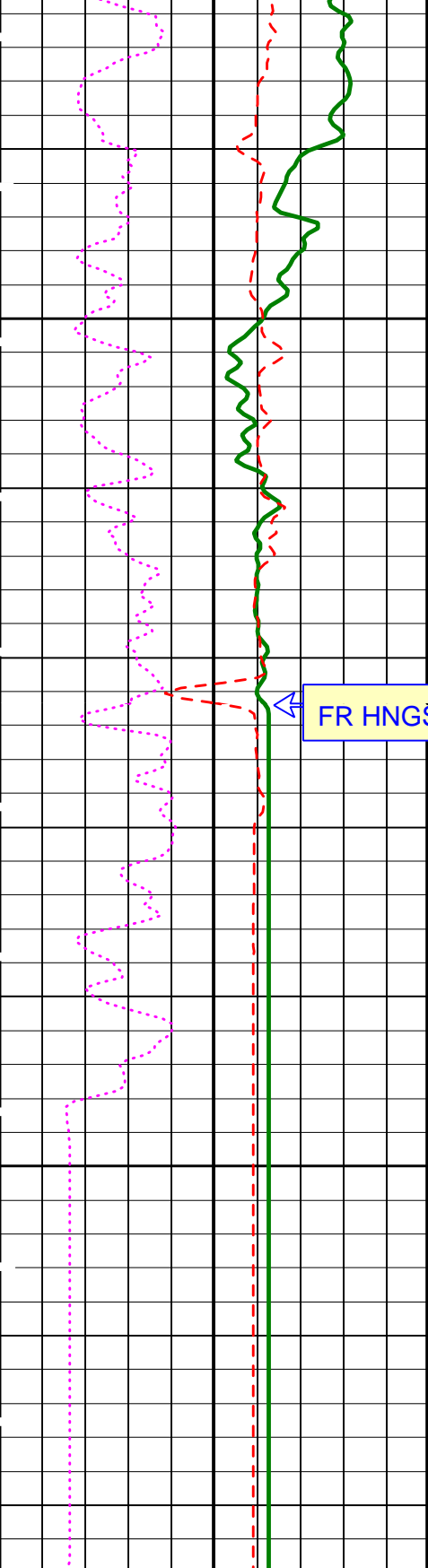




2625

2650





HLDS Caliper (LCAL) (IN)	0	20
APS Effective Standoff in Limestone (STOF) (IN)	-1	4
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	0	100

APS HR Near/Far Corrected Limestone Porosity (HFCL) (PU)	100	0
HLDS HR Bulk Density (HROM) (G/C3)	1	3
HLDS HR Long Spaced Photoelectric Effect (HLEF) (---)	0	10
Calibrated Downhole Force (CDF) (LBF)	5000	0
Tension (TENS)		

10000	(LBF)	0
HLDS HR Bulk Density Correction (HBDC)		
-0.25	(G/C3)	0.25

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			
AASD	APS Software Version	0	
AASO	APS Thermal and Array Detectors High Voltage Setting	1965.7	V
AFSD	APS Array Detectors Data Source Switch	Both	
	APS Far Detector High Voltage Setting	2077.27	V

AHCS	APS Holesize Correction Source		
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	
	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
GGRD	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	
PS	Bit Size	11.438	IN

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: APSLiquidPorosity_1 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

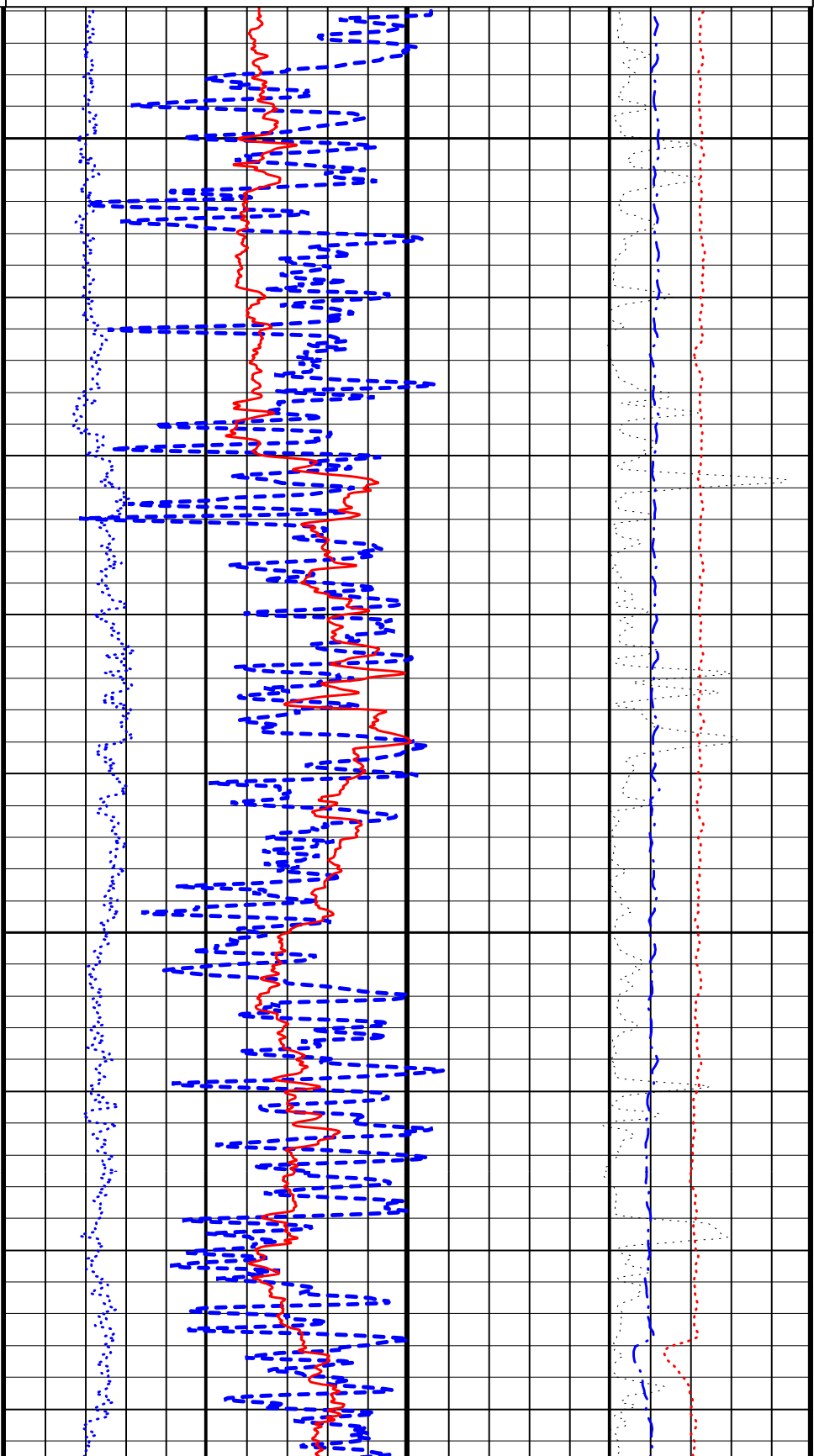
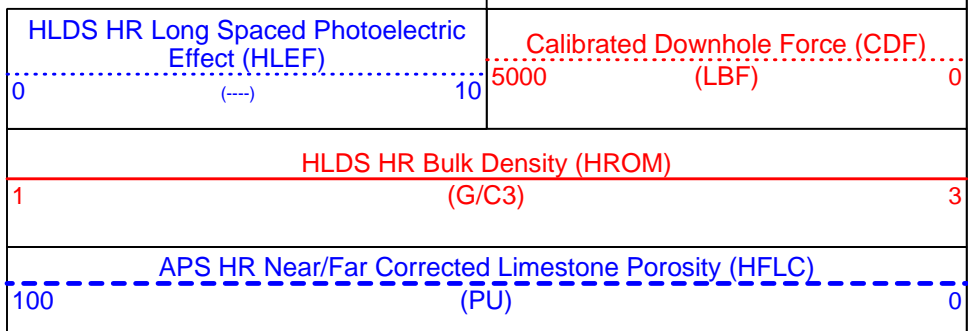
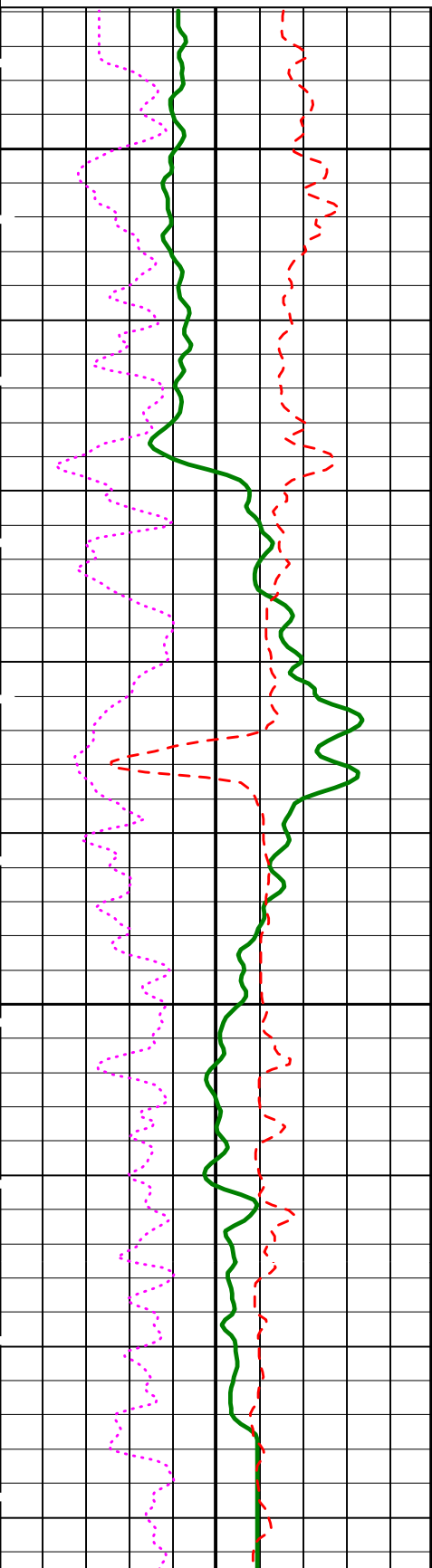
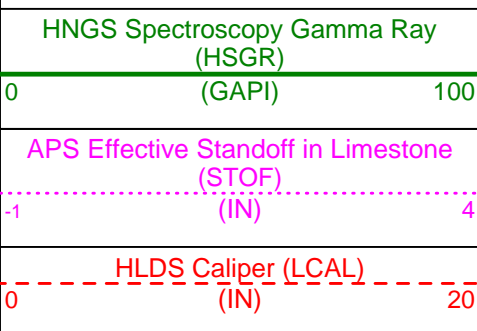
DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

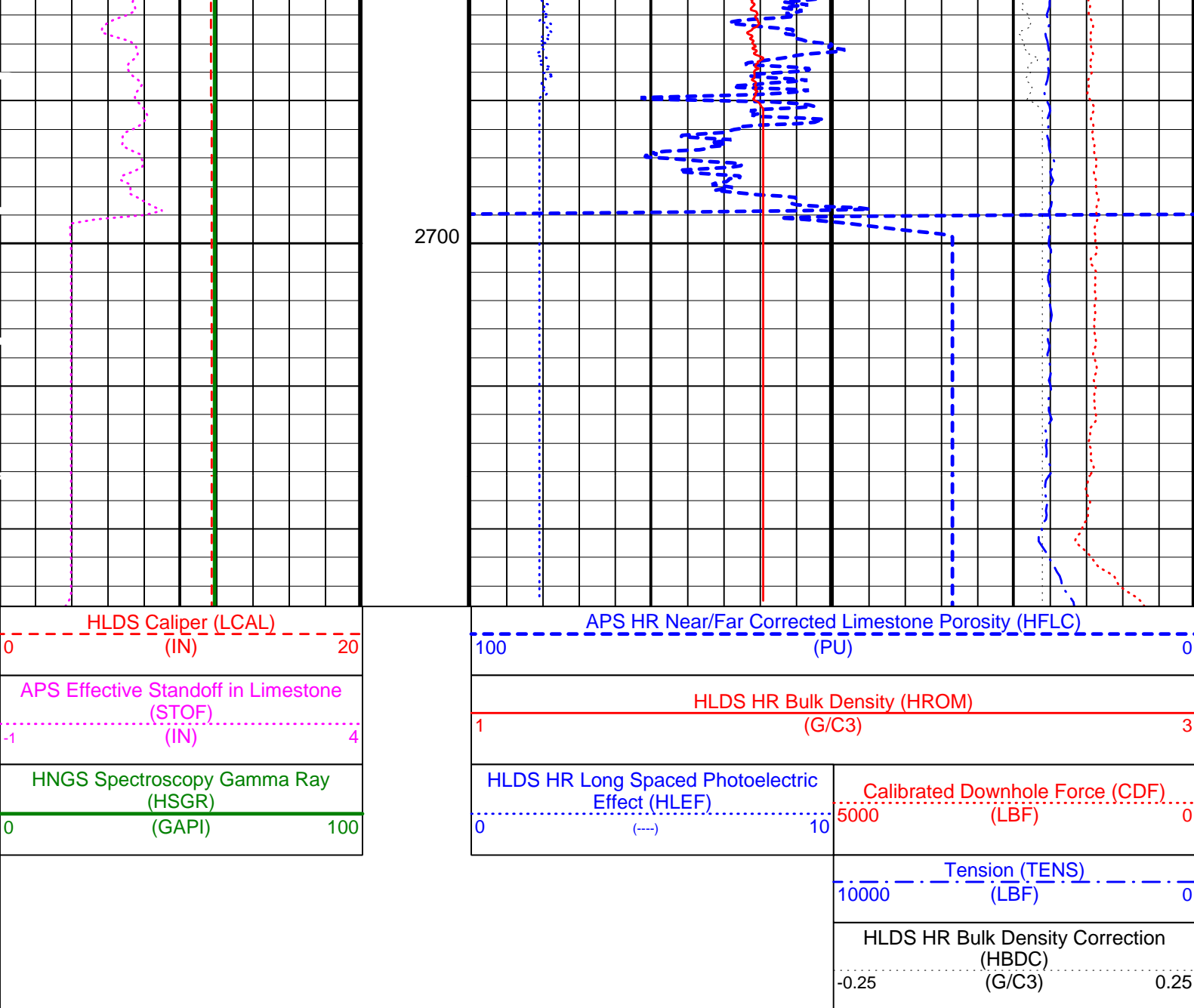
PIP SUMMARY

Time Mark Every 60 S

HLDS HR Bulk Density Correction (HBDC)		
-0.25	(G/C3)	0.25

Tension (TENS)





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
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	
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	
MCOA_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	
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
GRDR	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			
ALDTPCHAN	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: APSLiquidPorosity_1 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
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Output DLIS Files

DEFAULT	PI_APS_LDL_NGS_081PUP	FN:36	PRODUCER	13-Aug-2009 13:23		
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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 Cartridge	DIC - EB	171

Auxiliary Equipment:

Mass Isolated Housing	MIH - ZA	342
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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
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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)	
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
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)	
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)		
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)		
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)		
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)		
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
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
Before		0.0000	Before		0.9999
	-0.0000 (Minimum)	0.0000 (Nominal)	0.0000 (Maximum)		0.8500 (Minimum)
					1.0000 (Nominal)
					1.2000 (Maximum)

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 Inclinerometer / 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)				

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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)			

Master: 18-Jun-2009 23:03

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)		

Master: 30-Jun-2009 22:48

Before: 12-Aug-2009 13:55

After: 12-Aug-2009 21:13

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment:

LDSC Cartridge	LDSC - B	326
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Auxiliary Equipment:

LDSC Housing	LDSH - A	319
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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	HNSH - BA	205	
Gamma Source Radioactive	GSR - U	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			Before: 12-Aug-2009 13:56			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		141.4	After		8.491	After		15.62
	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		38.14						
Before		35.54						
After		36.22						

10.00 45.00 100.0
(Minimum) (Nominal) (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

APS Porosity
HLDS Lithodensity
Natural Gamma Spectroscopy