

Schlumberger

Company: Lamont Doherty Earth Observatory
Well: Shell
Field: Expedition 344S, U0080A (USC80)
Rig: JOIDES Resolution

Country: USA

Shell

Field: **Baffin Bay**

HRLA Resistivity

[illegible]

Logging Date						
Run Number						
Depth Driller						
Schlumberger Depth						
Bottom Log Interval						
Top Log Interval						
Casing Driller Size @ Depth		@				
Casing Schlumberger						
Bit Size						
Type Fluid In Hole						
Density	Viscosity					
Fluid Loss	PH					
MUD Source Of Sample						
RM @ Measured Temperature		@				
RMF @ Measured Temperature		@				
RMC @ Measured Temperature		@				
Source RMF	RMC					
RM @ MRT	RMF @ MRT	@		@		
Maximum Recorded Temperatures						
Circulation Stopped	Time					
Logger On Bottom	Time					
Unit Number	Location					
Recorded By						
Witnessed By						

Run 4

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

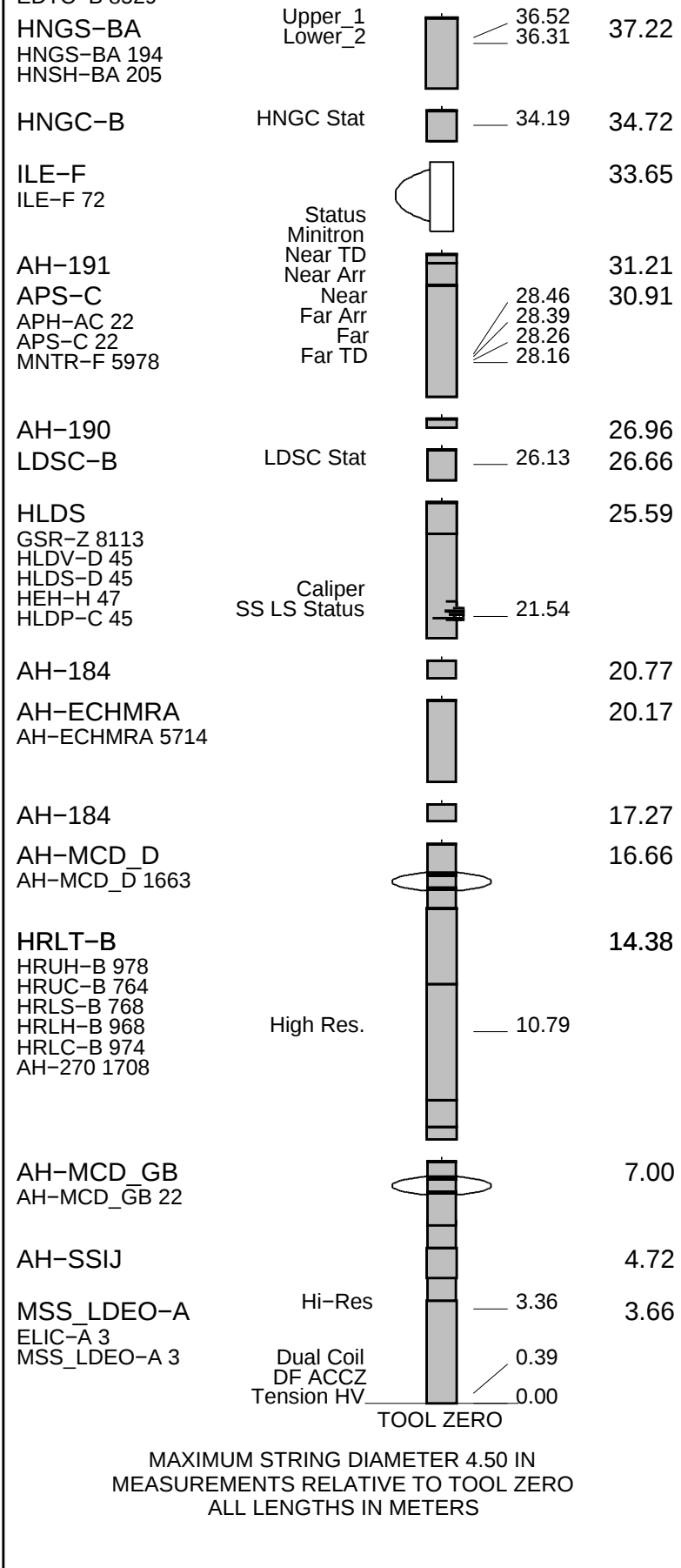
OTHER SERVICES1
OS1: MSS, HLDS, APS
OS2: HNGS, DSI, FMS
OS3: VSI

Site U0080, client designation USC 080, was cored for exploration using the RCB system.
This site is subcontracted to Shell from LDEO, not a standard USIO/IODP site!
Eccentralized tools run using inline bowspring type eccentralizers, as per tool sketch.
Centralized tools run using modified MCD chasis as inline centralizer, as per tool sketch.
Eccentered / Centered tools decoupled using knuckle joints with a through-wired spacer.
HLDS Caliper used for applicable hole size corrections.
Tools conveyed to hole on wireline through drill pipe, as is standard for this riser-less operation.
Logs recorded from Drill Floor, but played back with zero reference at sea bed for compatibility with core data.
Original sea bed, as measured from drill floor, was 231.5m uncorrected measured depth below drill floor.
Heave compensation was not required due to exceptionally calm sea state and favorable weather during logging.
TD was not tagged in order to avoid potential sticking risk associated with dropped RCB bit.
Caliper closed 10m prior to entering drill pipe; pipe set at 265mbrf (31mbsf) for logging.
HRLA run without standoffs due to minimum ID restrictions inside drill pipe.

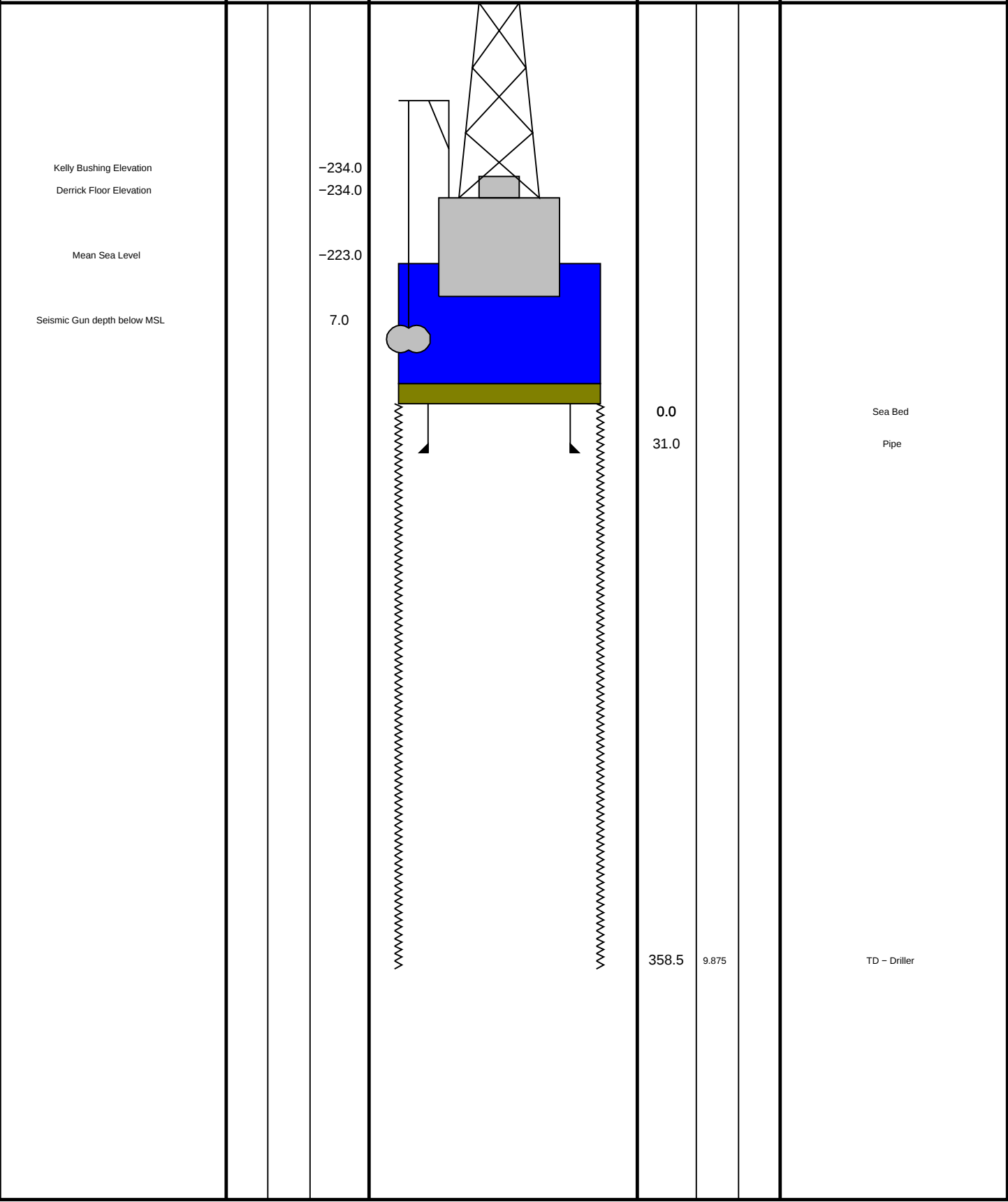
SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

RUN 2

DOWNHOLE EQUIPMENT			
LEH-MT	MDSB_EDTC		40.59
	Mud Tempe		
	CTEM		
AH-369	Gamma Ray		39.63
EDTC-B	EFTB DIAG		
EDTH-B 8528	TelStatus		
EDTC-B 8529	EDTCB Ele		37.22



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





Main Log

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 344S, U0080A (USC80)

Input DLIS Files

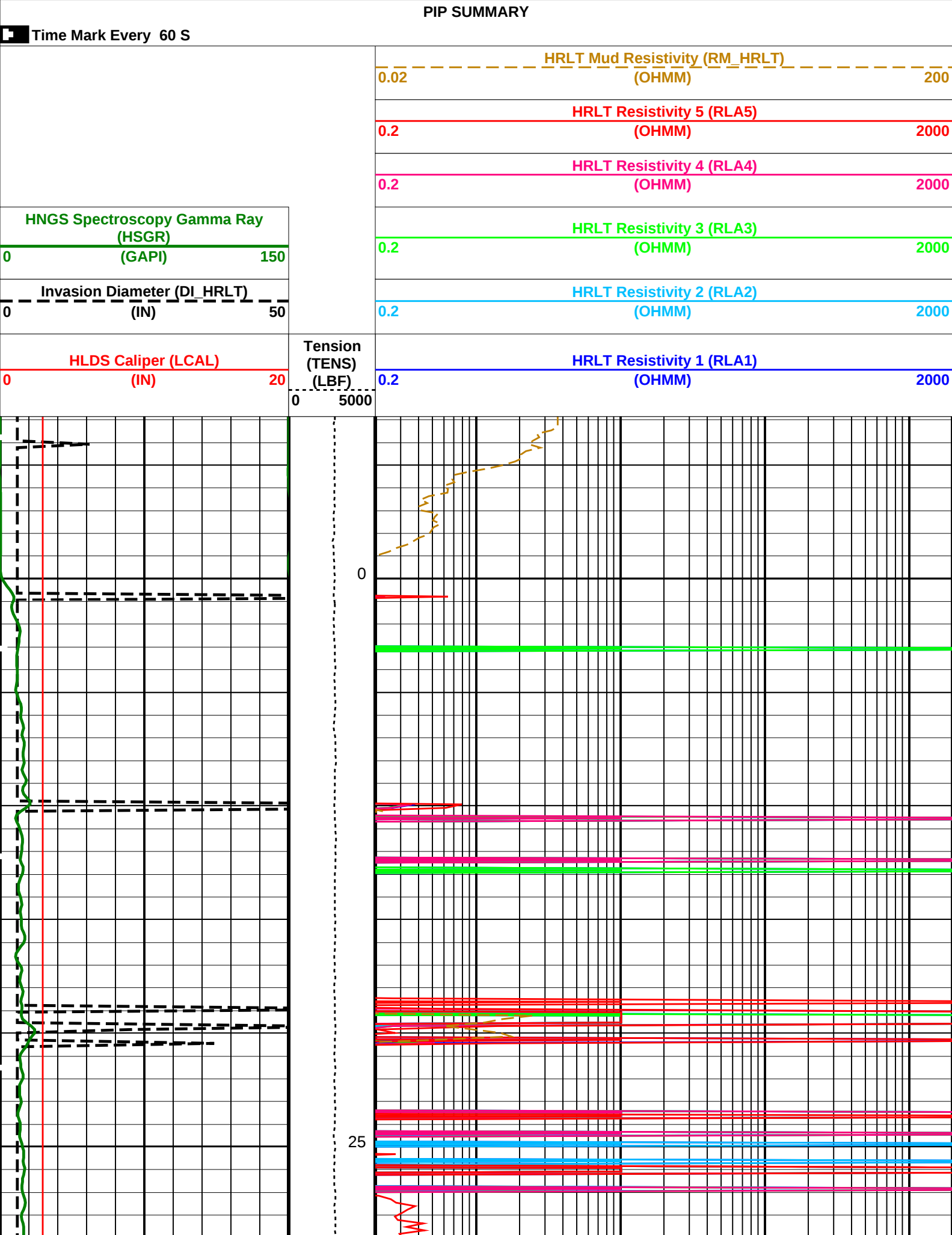
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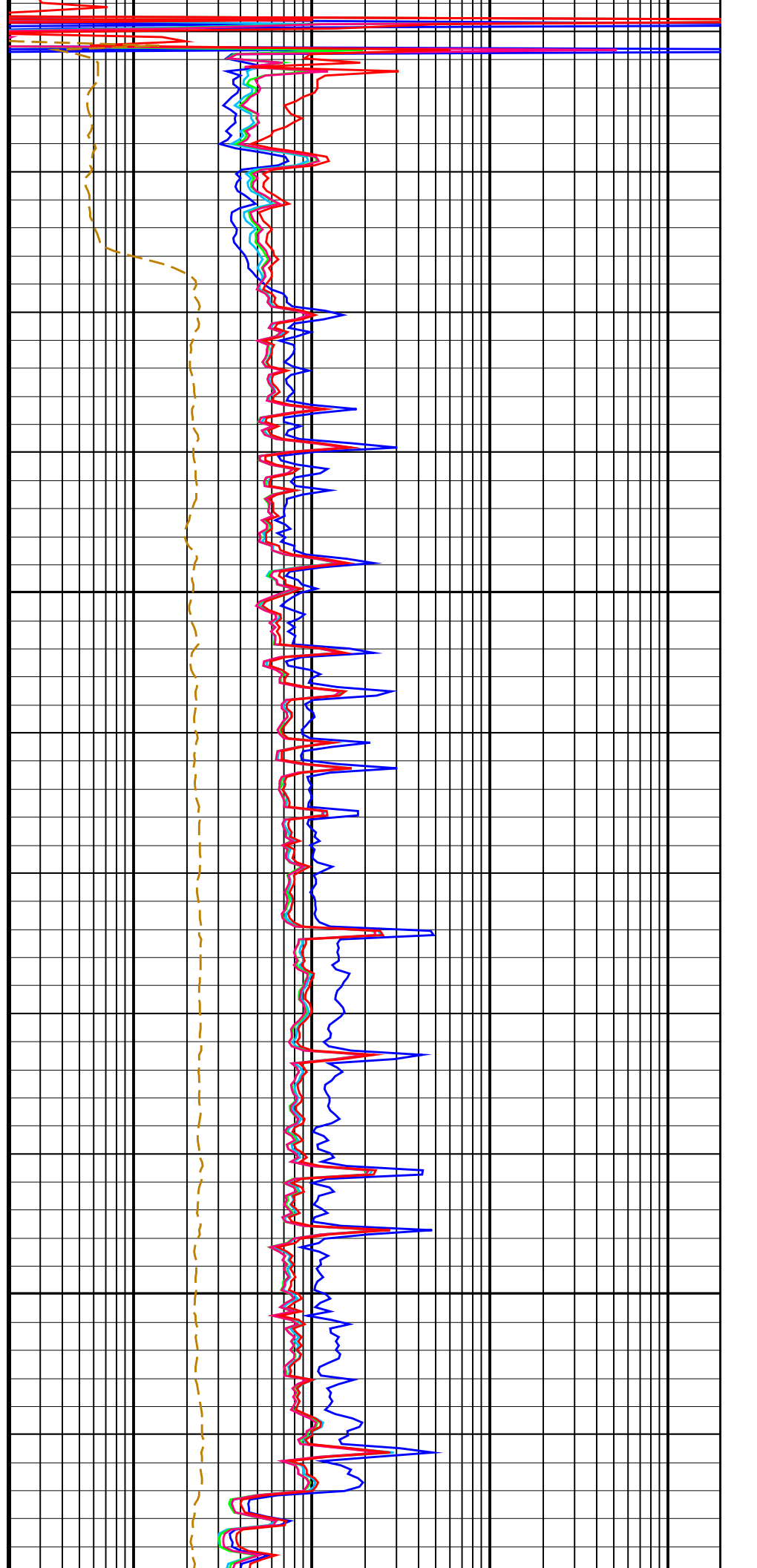
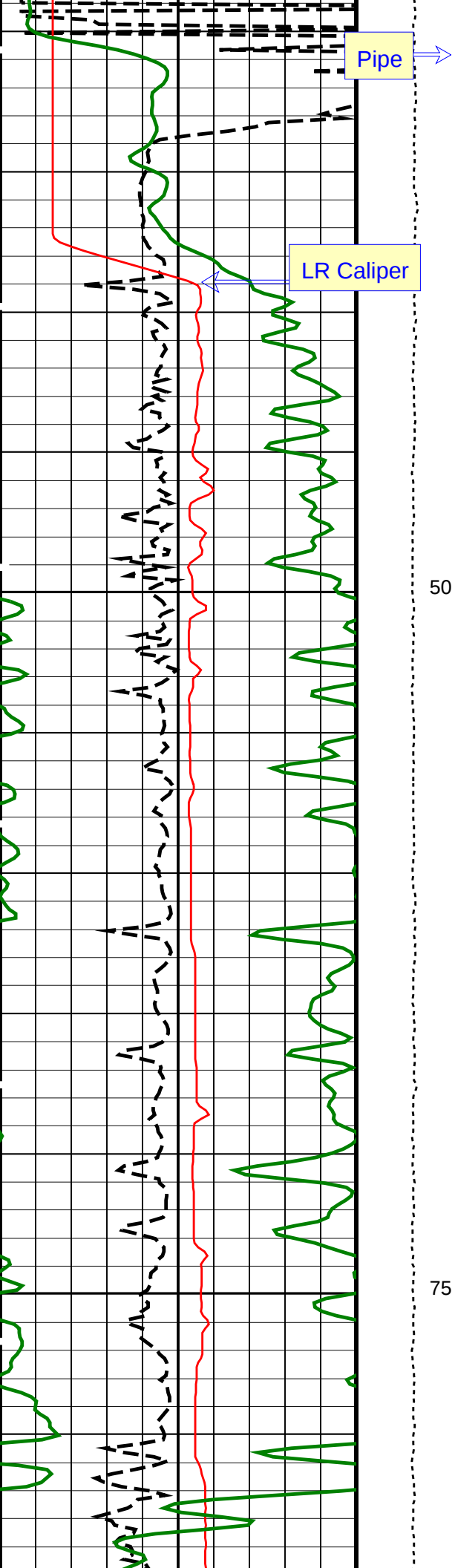
Output DLIS Files

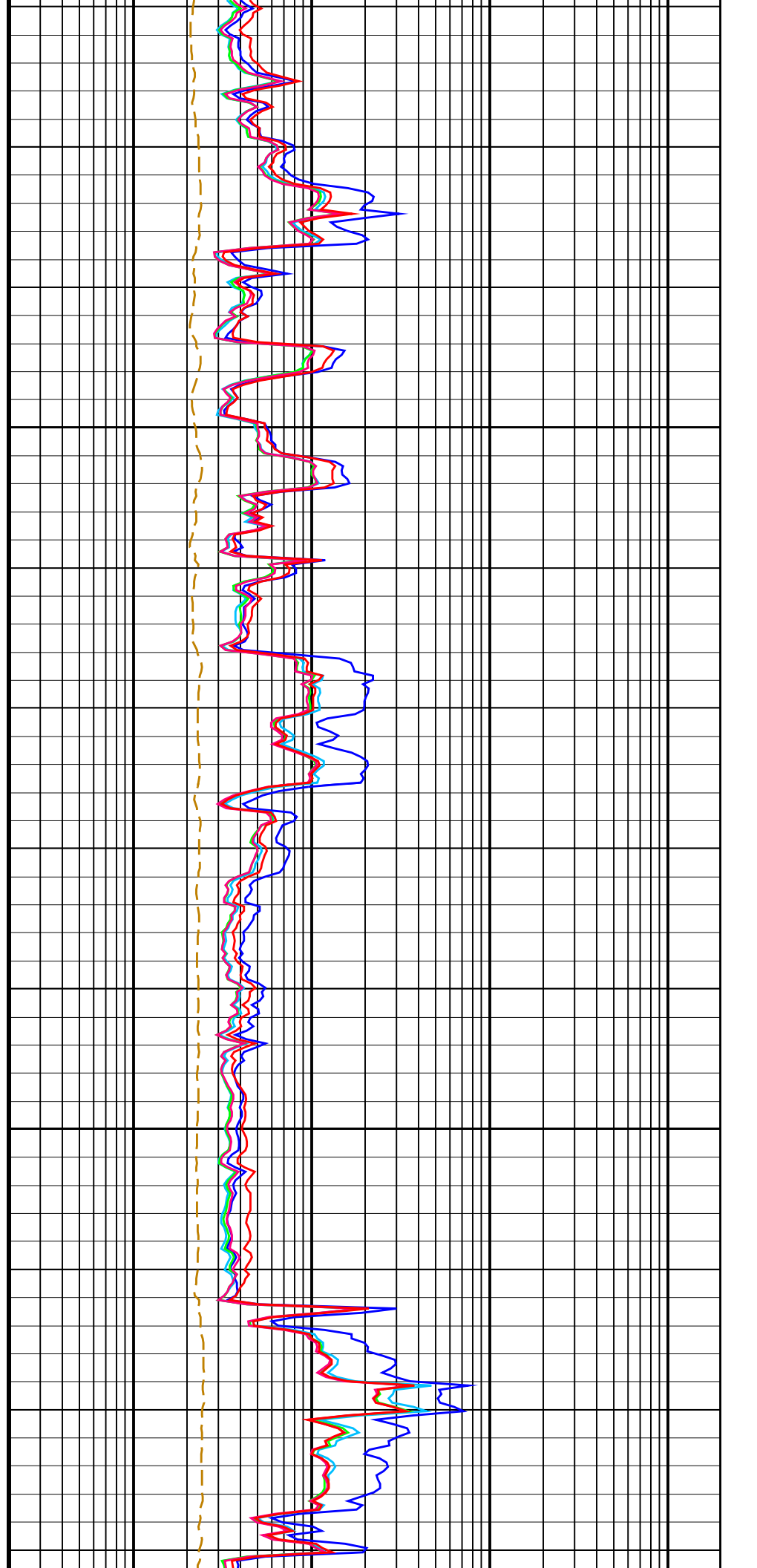
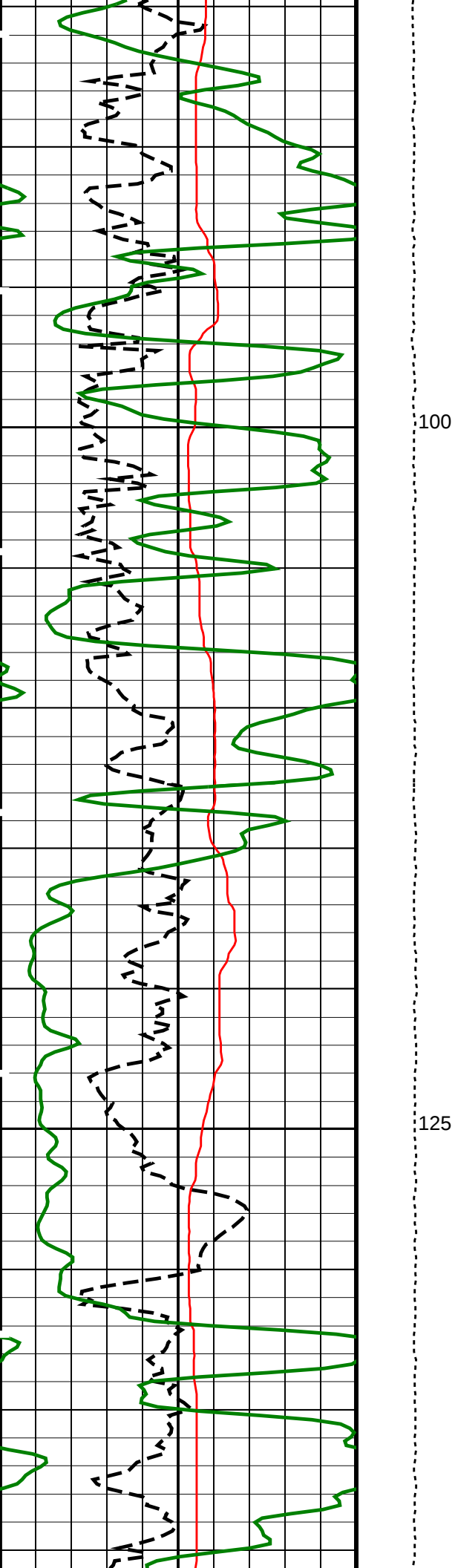
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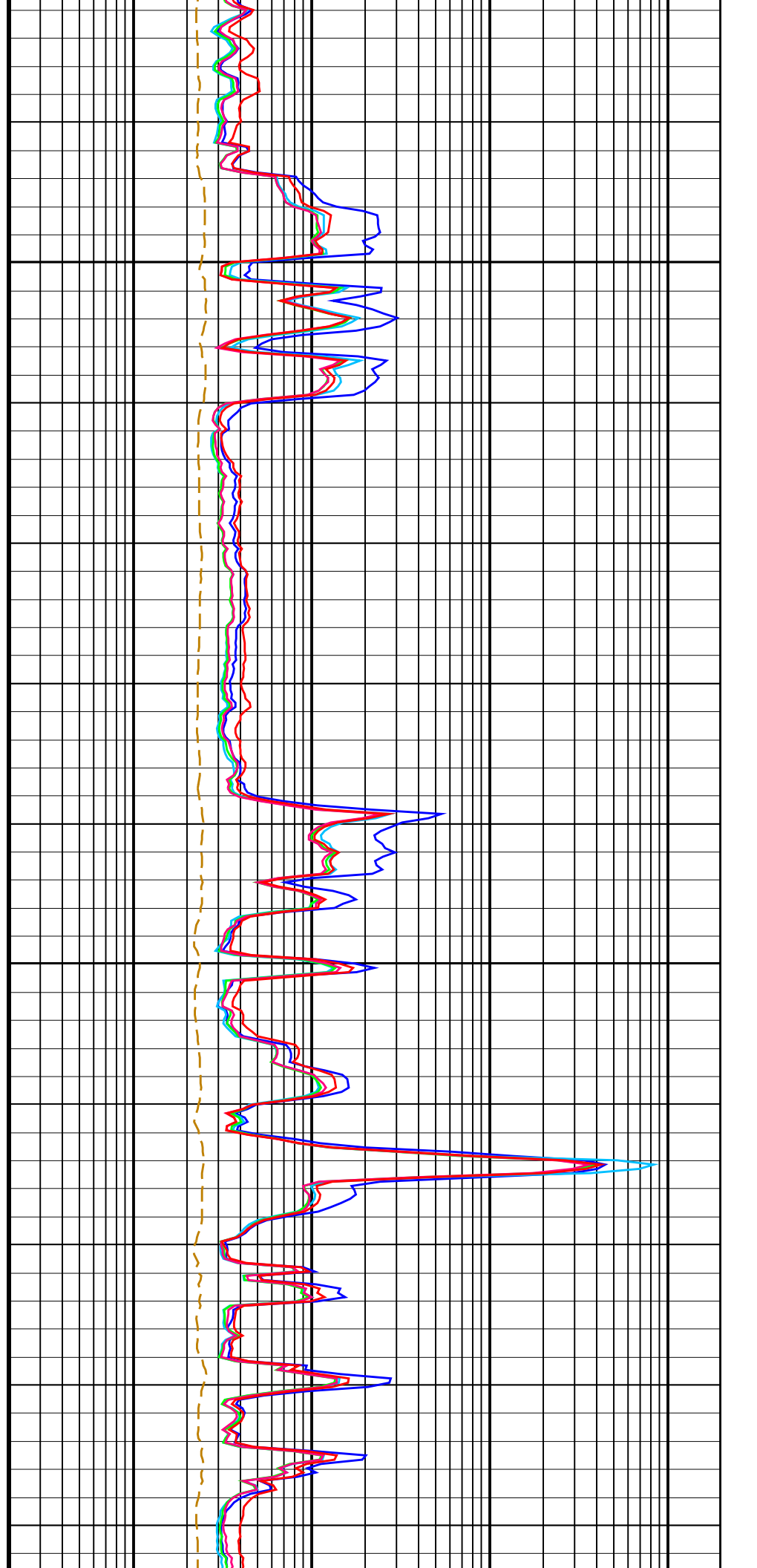
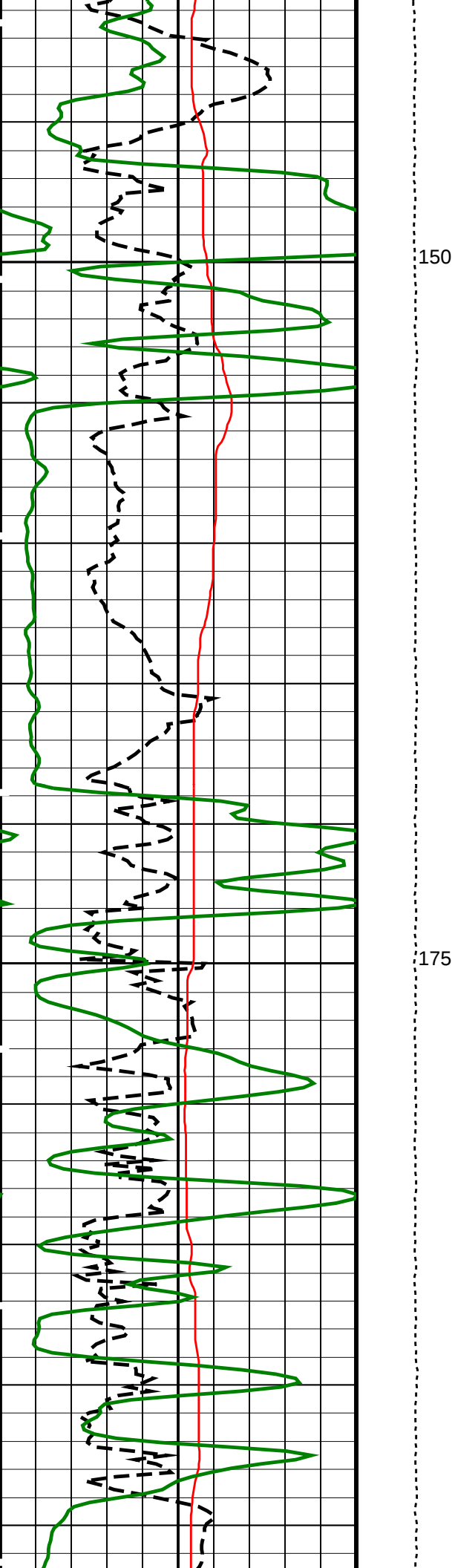
OP System Version: 19C0-187

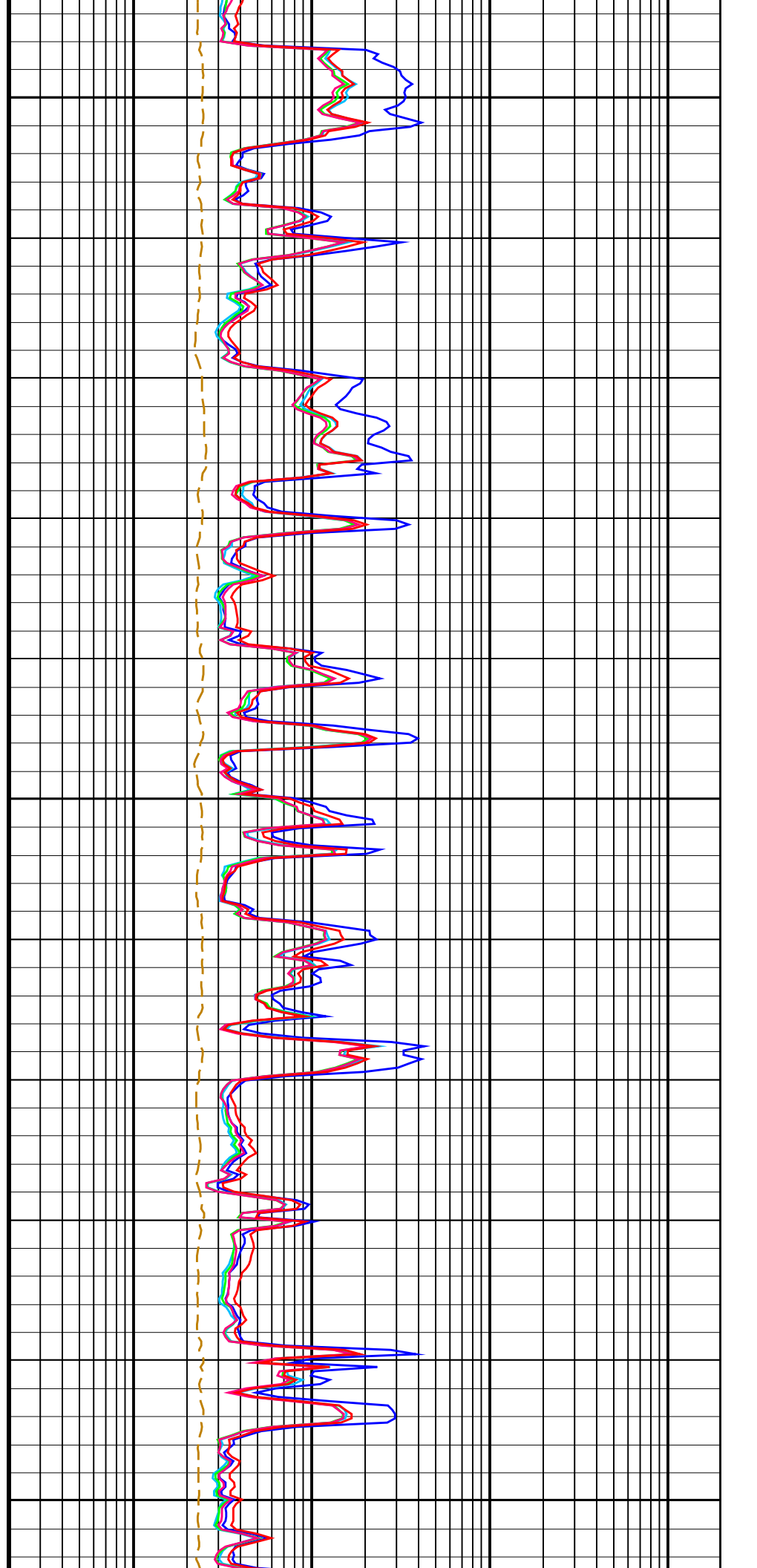
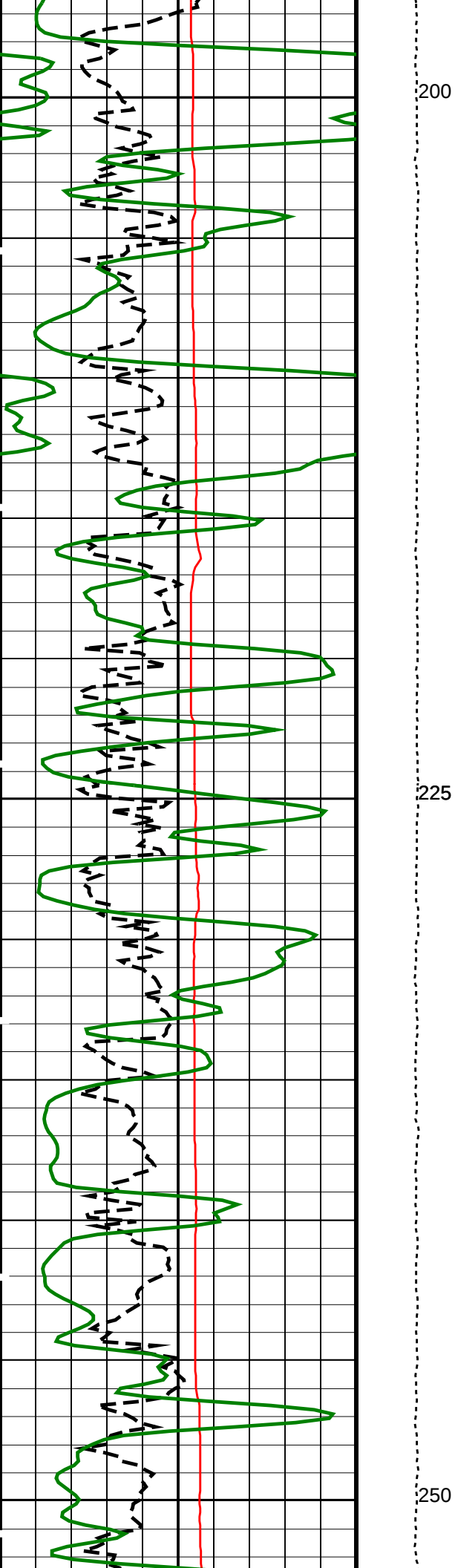
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187

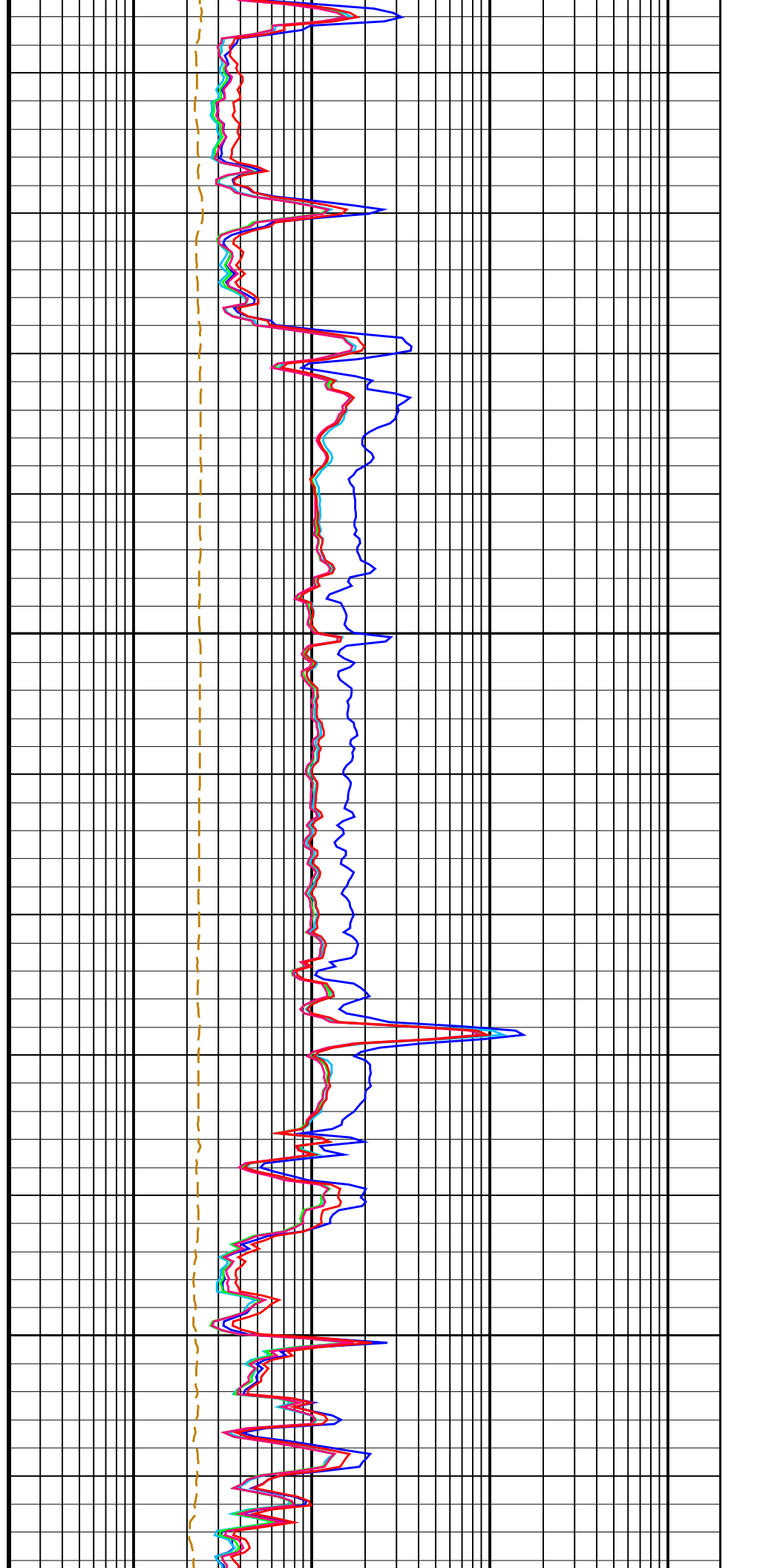
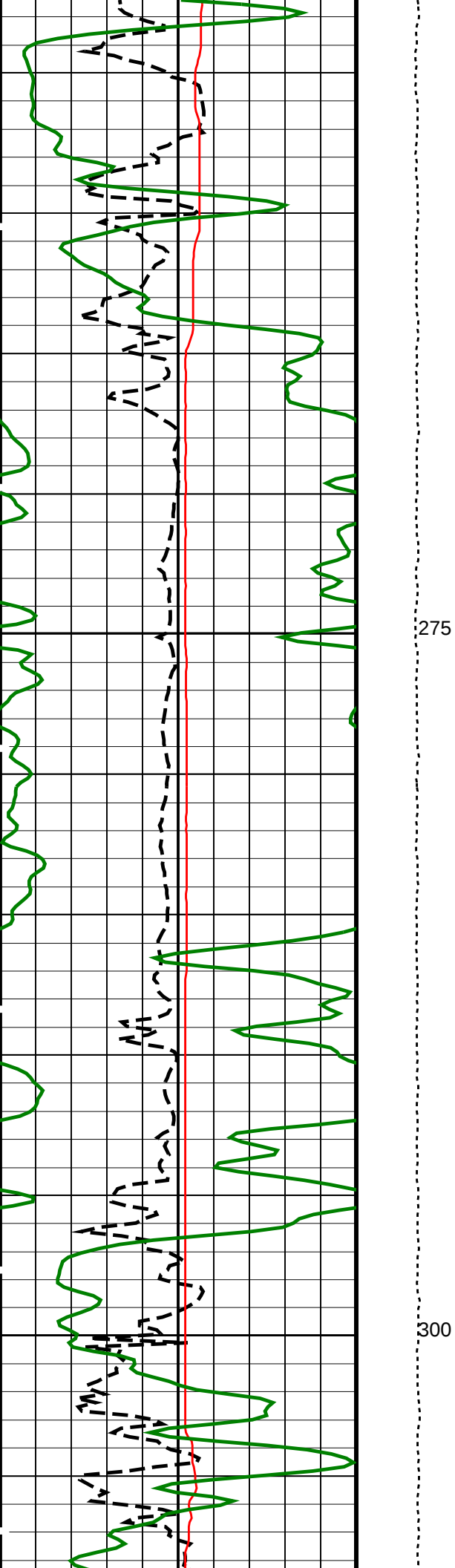


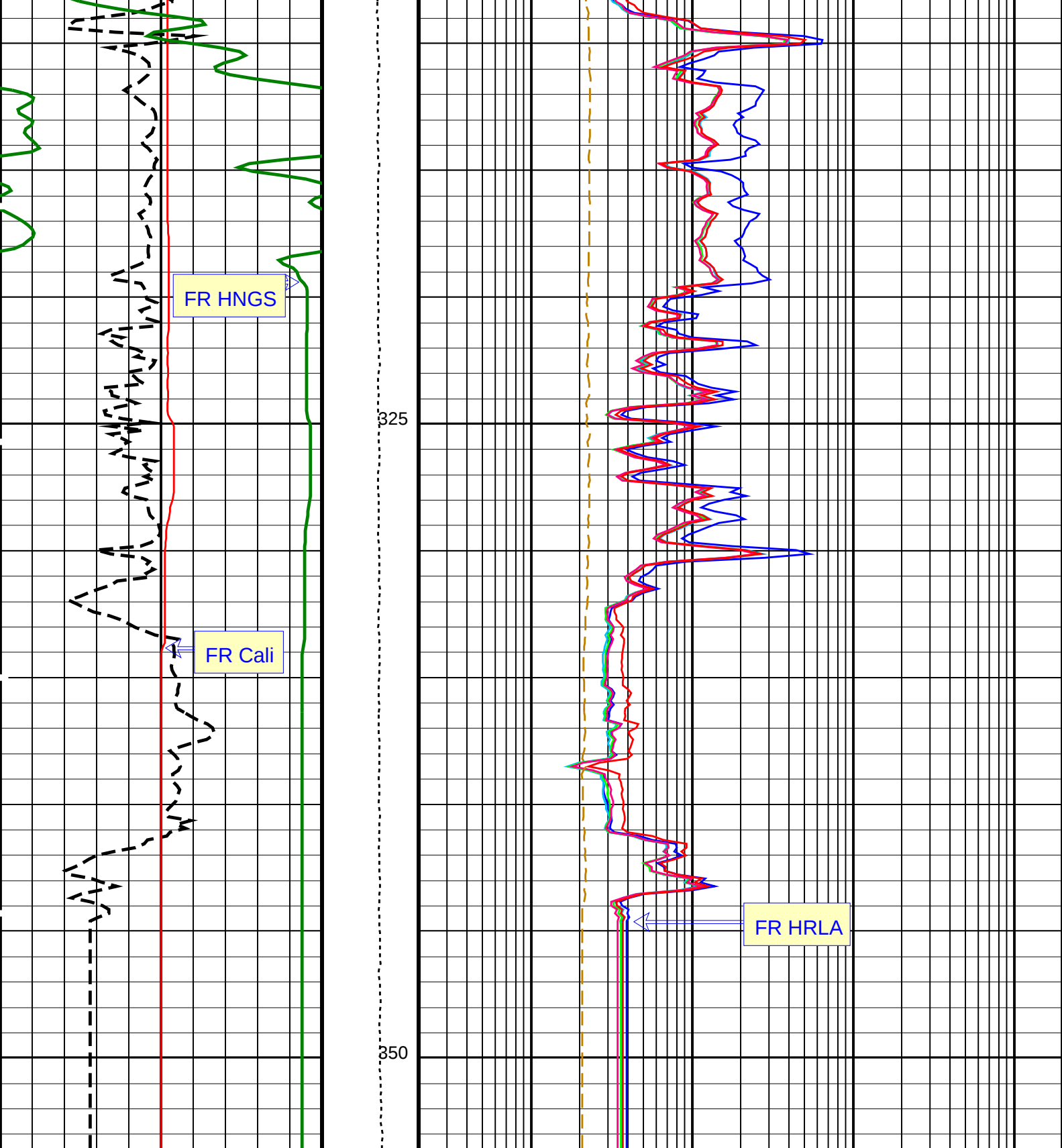












HLDS Caliper (LCAL) 020 (IN)	Tension (TENS) (LBF) 05000	HRLT Resistivity 1 (RLA1) 0.22000 (OHMM)
Invasion Diameter (DI_HRLT) 050 (IN)		HRLT Resistivity 2 (RLA2) 0.22000 (OHMM)
HNGS Spectroscopy Gamma Ray (HSGR) 0150 (GAPI)		HRLT Resistivity 3 (RLA3) 0.22000 (OHMM)
		HRLT Resistivity 4 (RLA4) 0.22000 (OHMM)

	0.2	(OHMM)	2000
	HRLT Resistivity 5 (RLA5)		
	0.2	(OHMM)	2000
	HRLT Mud Resistivity (RM_HRLT)		
	0.02	(OHMM)	200

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
PROCINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	0.25	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	-2	DEGC
APS-C: Accelerator-Porosity Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	-2	DEGC
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)	9	DEGC
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	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
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	-0.00186494	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	-2	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01327	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00569	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	-2	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	-231.5	M
PP	Playback Processing	NORMAL	
TD	Total Depth	589.5	M

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:22	PRODUCER	21-Aug-2012 19:43	585.2 M	224.2 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_039PUP	FN:46	PRODUCER	24-Aug-2012 18:52
CLIENT	MSS_LDEO_HRLA_LDL_039PUC	FN:47	CUSTOMER	24-Aug-2012 18:52



Repeat Section

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 344S, U0080A (USC80)

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_018LUP	FN:20	PRODUCER	21-Aug-2012 19:13	585.2 M	461.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_040PUP	FN:48	PRODUCER	24-Aug-2012 19:00	353.6 M	228.6 M
CLIENT	MSS_LDEO_HRLA_LDL_040PUC	FN:49	CUSTOMER	24-Aug-2012 19:00	353.6 M	228.6 M

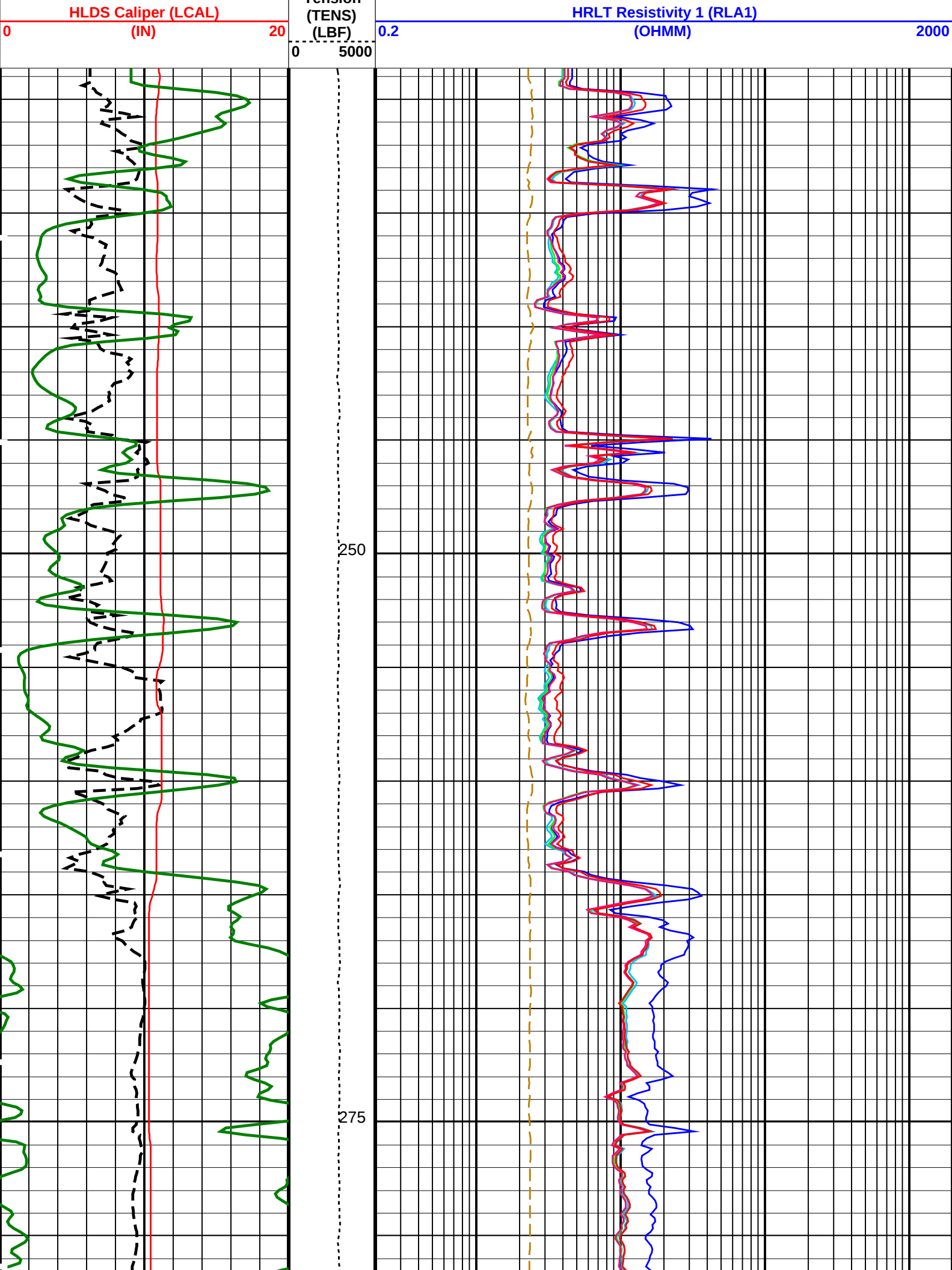
OP System Version: 19C0-187

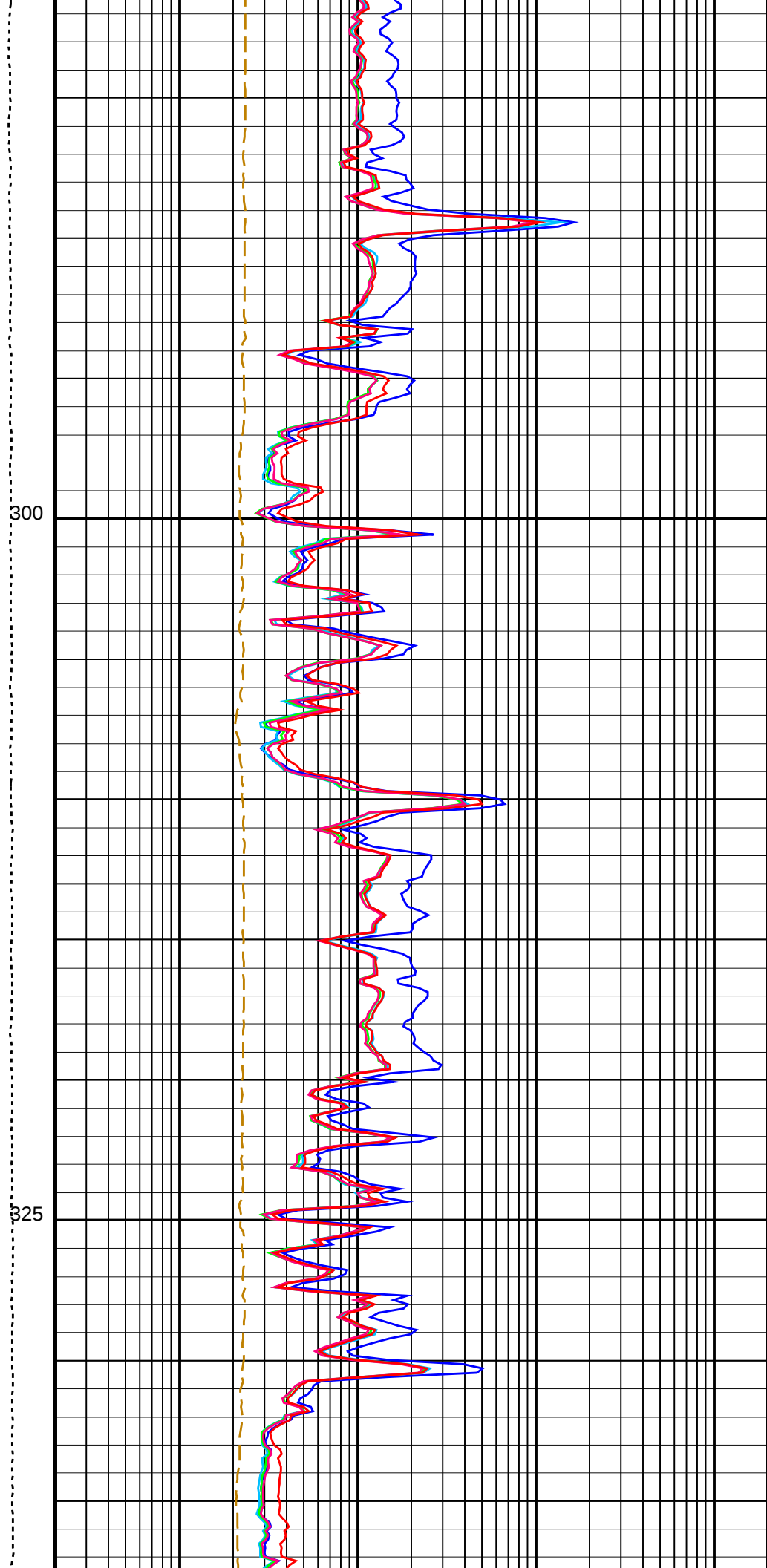
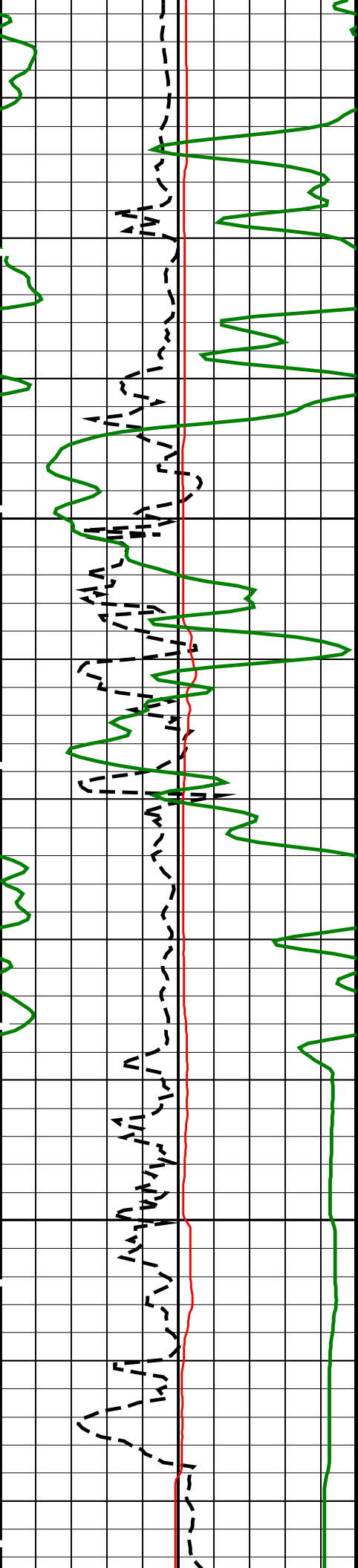
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

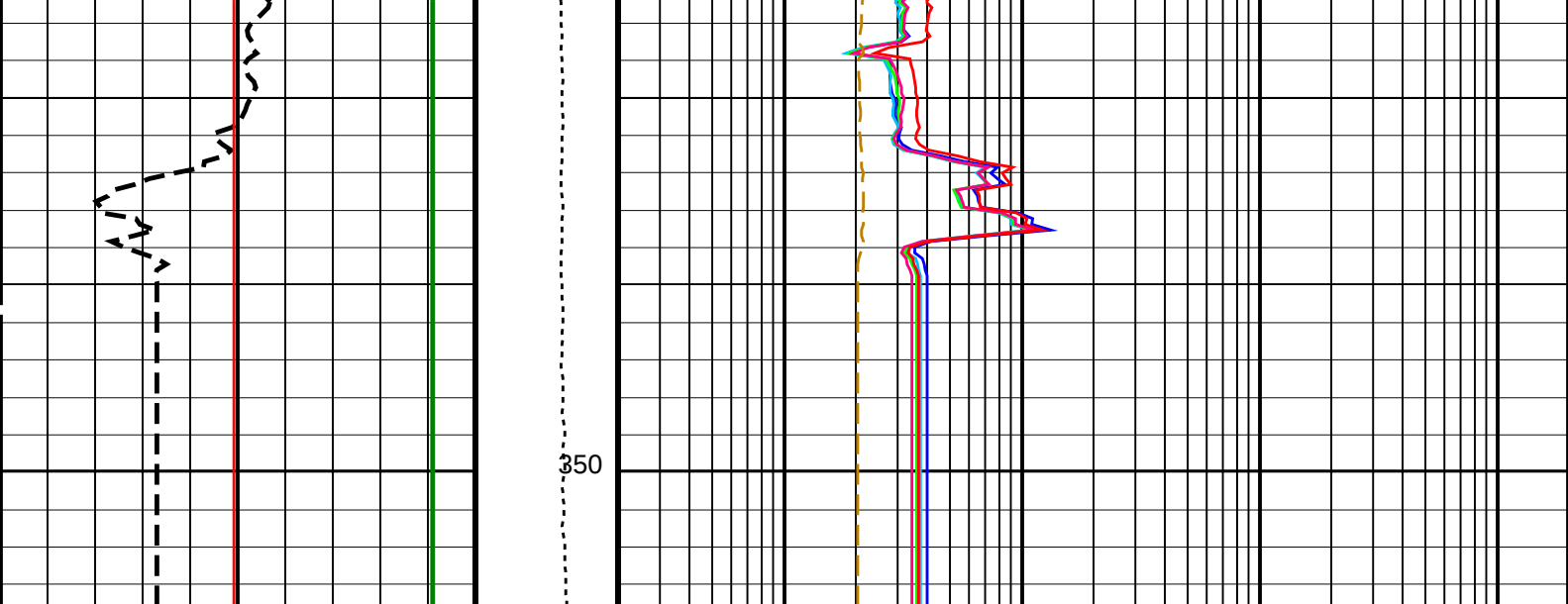
PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 150 Invasion Diameter (DI_HRLT) (IN) 50	HRLT Mud Resistivity (RM_HRLT) (OHMM) 200	
	HRLT Resistivity 5 (RLA5) (OHMM) 2000	
	HRLT Resistivity 4 (RLA4) (OHMM) 2000	
	HRLT Resistivity 3 (RLA3) (OHMM) 2000	
	HRLT Resistivity 2 (RLA2) (OHMM) 2000	
	Tension	







HLDS Caliper (LCAL) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	HRLT Resistivity 1 (RLA1) 0.2 (OHMM) 2000
Invasion Diameter (DI_HRLT) 0 (IN) 50		HRLT Resistivity 2 (RLA2) 0.2 (OHMM) 2000
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 150		HRLT Resistivity 3 (RLA3) 0.2 (OHMM) 2000
		HRLT Resistivity 4 (RLA4) 0.2 (OHMM) 2000
		HRLT Resistivity 5 (RLA5) 0.2 (OHMM) 2000
		HRLT Mud Resistivity (RM_HRLT) 0.02 (OHMM) 200

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	9 DEGC
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
KFAC_HRLT	HRLT K Factor Option	SONDE
PROCI NV	Inversion Selection	ON
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO
PROCMSO	Mechanical Standoff Fin Size	0.25 IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute
PROCSPO	Sonde Position	Eccentered
SHT	Surface Hole Temperature	-2 DEGC
APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	9 DEGC
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	-2 DEGC
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	Borehole Status	OPEN	9	DEGC
CSD1	Bottom Hole Temperature (used in calculations)		0	IN
CSD2	Inner Casing Outer Diameter		0	IN
CSW1	Outer Casing Outer Diameter		0	LB/F
CSW2	Inner Casing Weight		0	LB/F
DBCC	Outer Casing Weight		0	LB/F
GCSE	HNGS Barite Constant Correction Flag	NONE		
GGRD	Generalized Caliper Selection	LCAL		
GRSE	Geothermal Gradient	0.018227		DC/M
GTSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
H1P	Generalized Temperature Selection	LINEAR_ESTIMATE		
H2P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW		
HABK	HNGS Detector 2 Allow/Disallow In Processing	ALLOW		
HALF	HNGS Borehole Potassium Running Average	-0.00186494		
HCRB	HNGS Alpha Filter Length	60		IN
HMWM	HNGS Apply Borehole Potassium Correction	NONE		
HNPE	Mud Weighting Material	NATU		
S1BI	HNGS Processing Enable	YES		
S2BI	HNGS Detector 1 Calibration Bismuth Count Rate	-999.25		CPS
SGRC	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25		CPS
SHT	HNGS Standard Gamma-Ray Correction Flag	YES		
TPOS	Surface Hole Temperature	-2		DEGC
VBA1	Tool Position	ECCE		
VBA2	HNGS Detector 1 Variable Barite Factor Running Average	1.01327		
	HNGS Detector 2 Variable Barite Factor Running Average	1.00569		
EDTC-B: Enhanced DTS Cartridge				
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)	9		DEGC
GCSE	Generalized Caliper Selection	LCAL		
GGRD	Geothermal Gradient	0.018227		DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT	Surface Hole Temperature	-2		DEGC
System and Miscellaneous				
BS	Bit Size	9.875		IN
DFD	Drilling Fluid Density	1.05		G/C3
DO	Depth Offset for Playback	-231.5		M
PP	Playback Processing	NORMAL		
TD	Total Depth	589.5		M

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 24-Aug-2012 19:00

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_018LUP	FN:20	PRODUCER	21-Aug-2012 19:13	585.2 M	461.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_040PUP	FN:48	PRODUCER	24-Aug-2012 19:00
CLIENT	MSS_LDEO_HRLA_LDL_040PUC	FN:49	CUSTOMER	24-Aug-2012 19:00

Schlumberger

Downlog

MAXIS Field Log

Company: Lamont Doherty Earth Observatory Well: Expedition 344S, U0080A (USC80)

Input DLIS Files

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Output DLIS Files

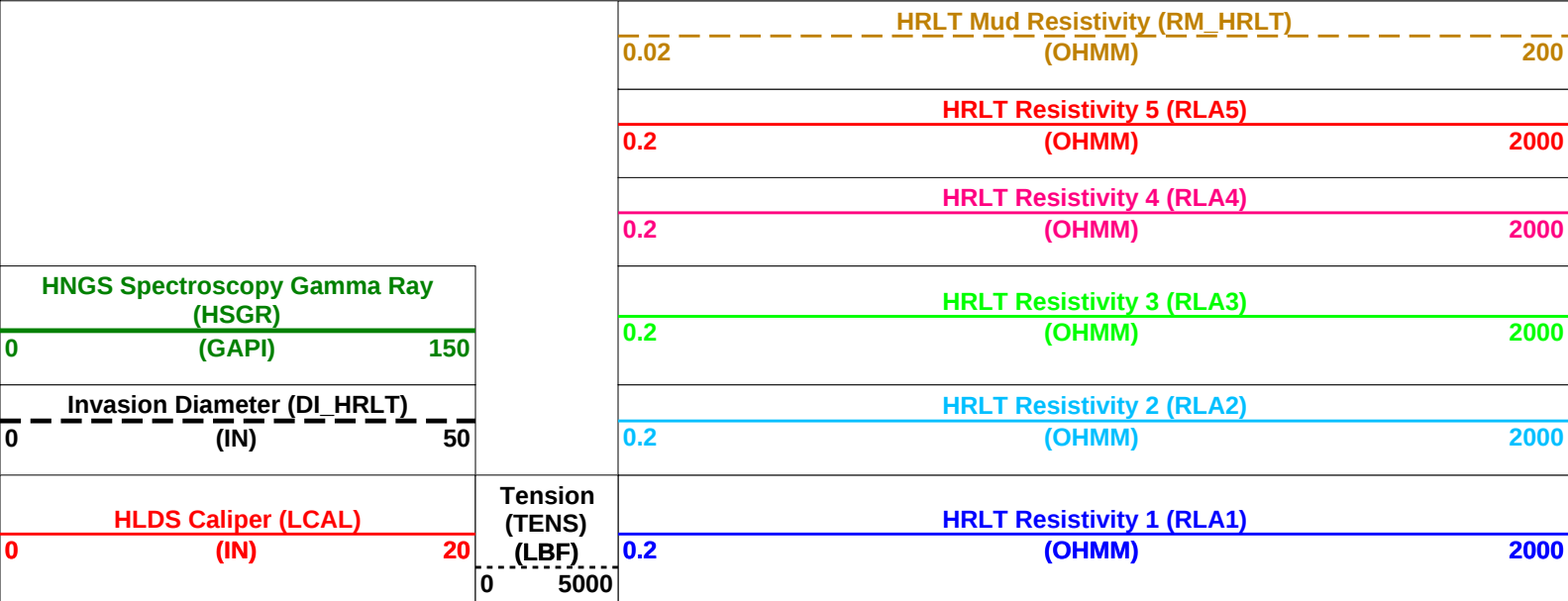
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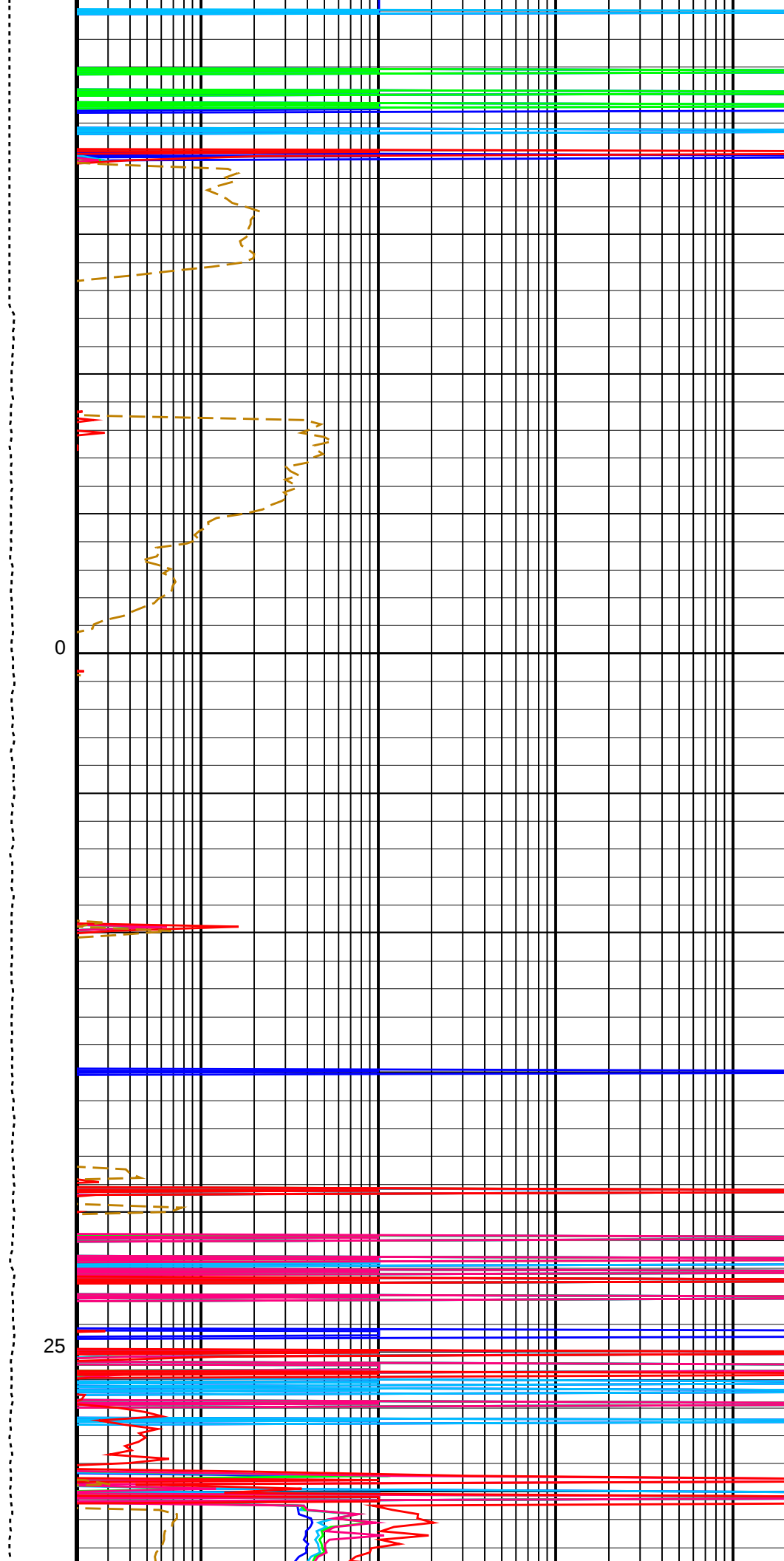
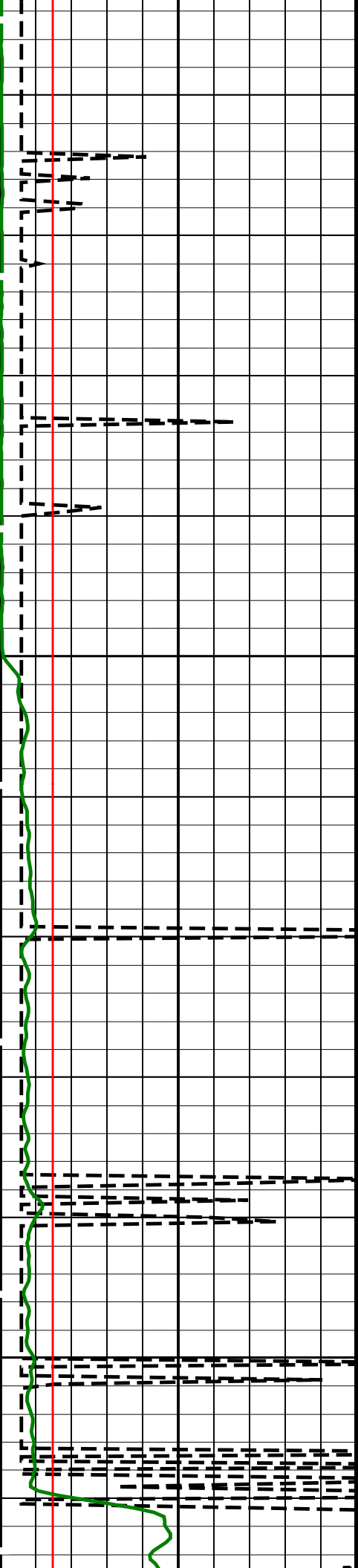
OP System Version: 19C0-187

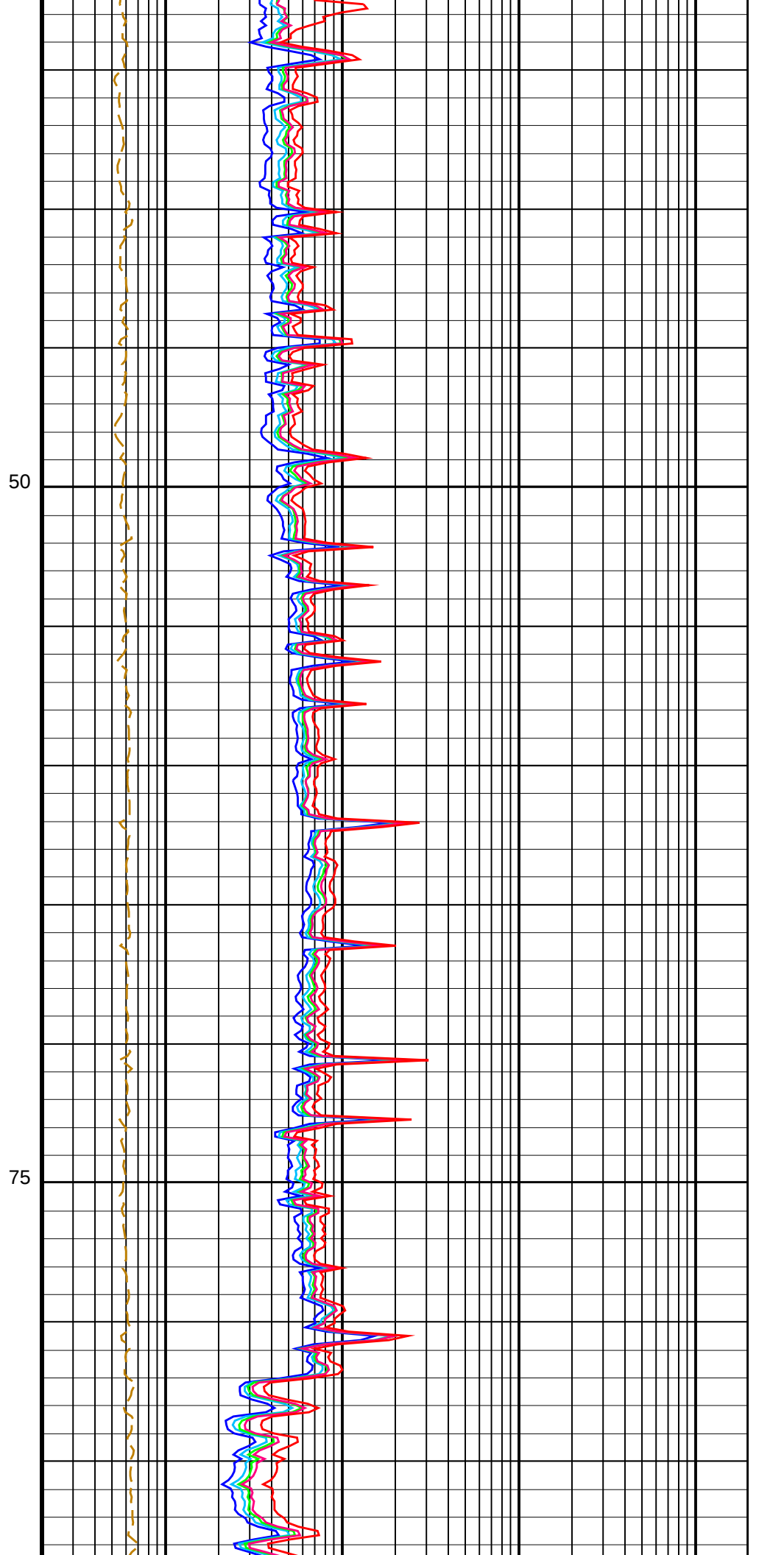
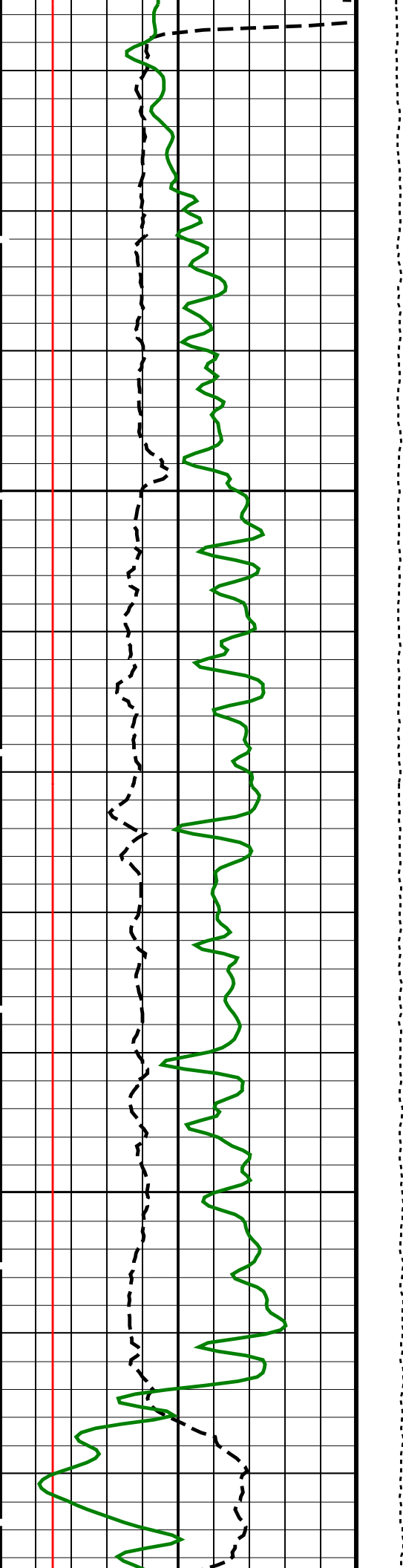
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

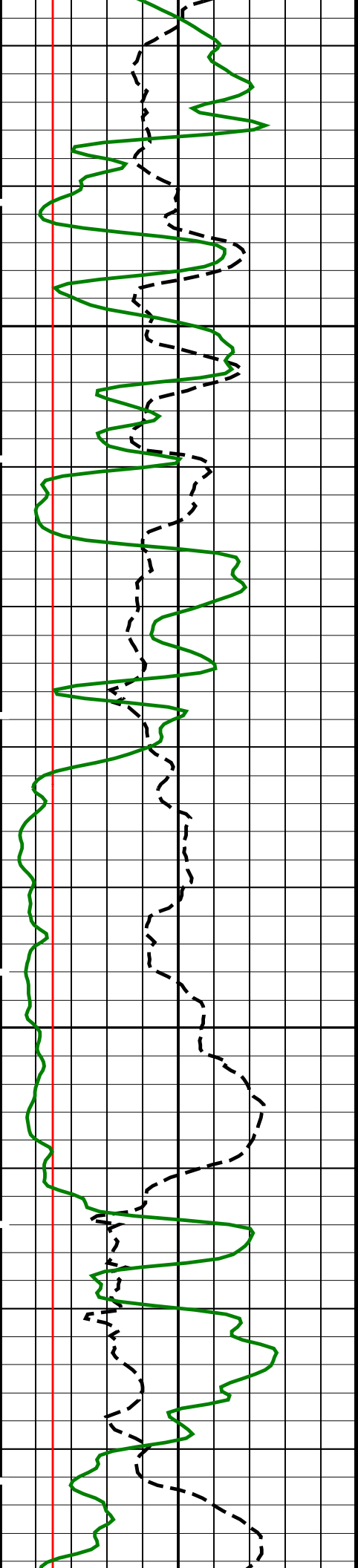
PIP SUMMARY

Time Mark Every 60 S



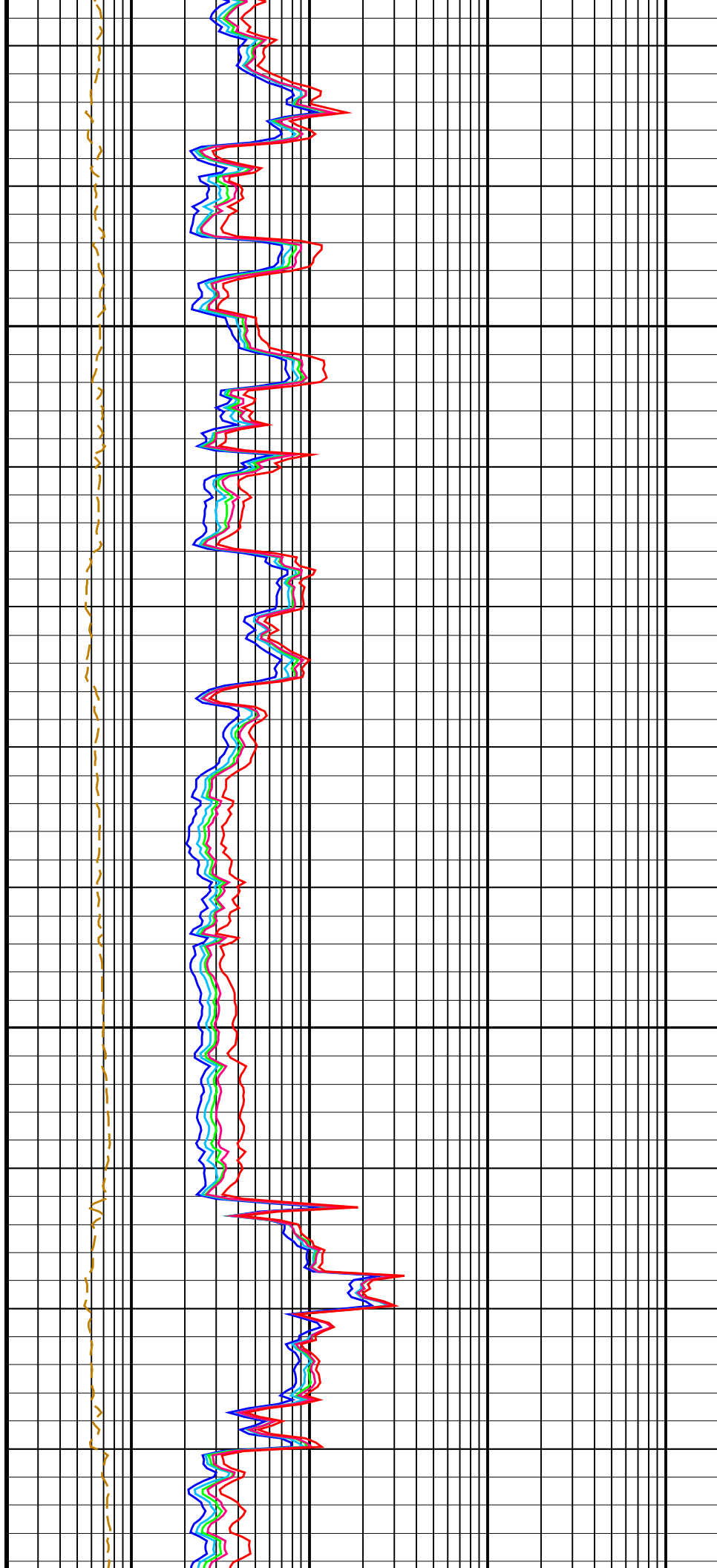


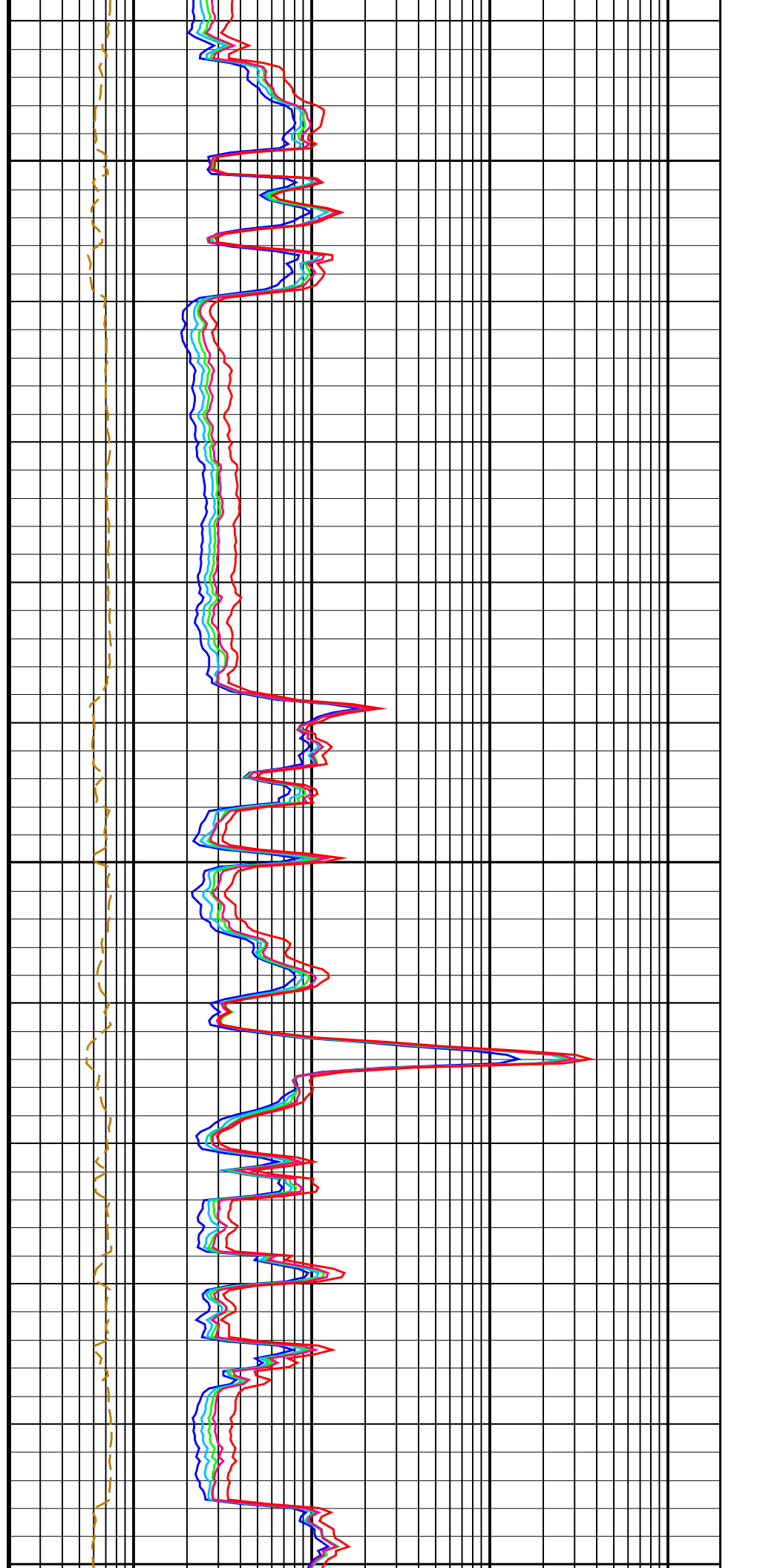
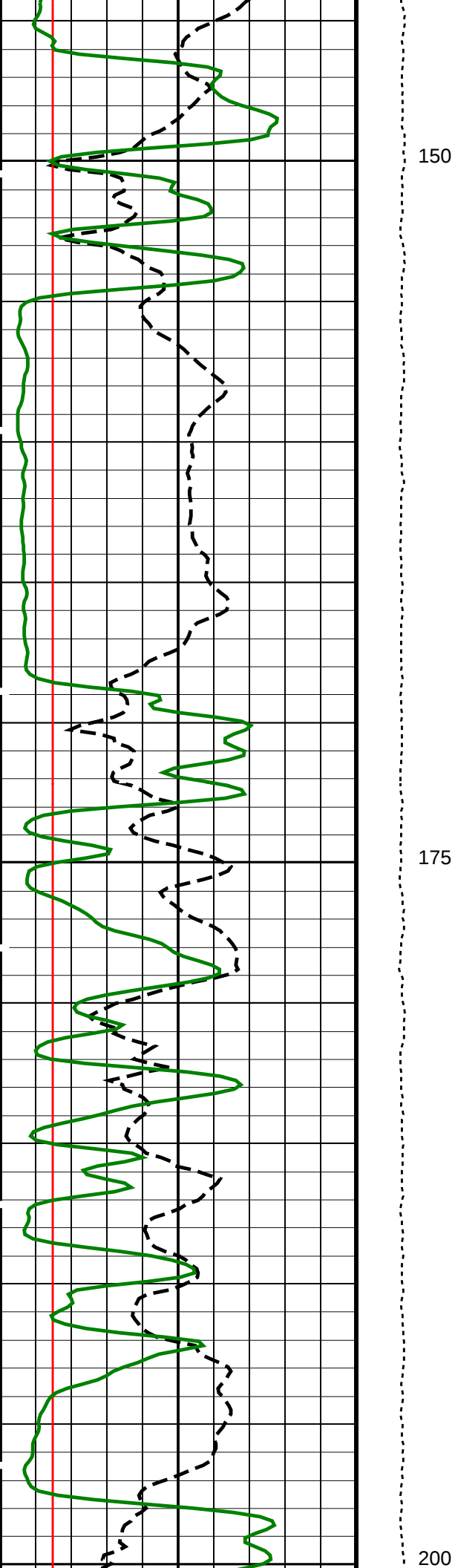


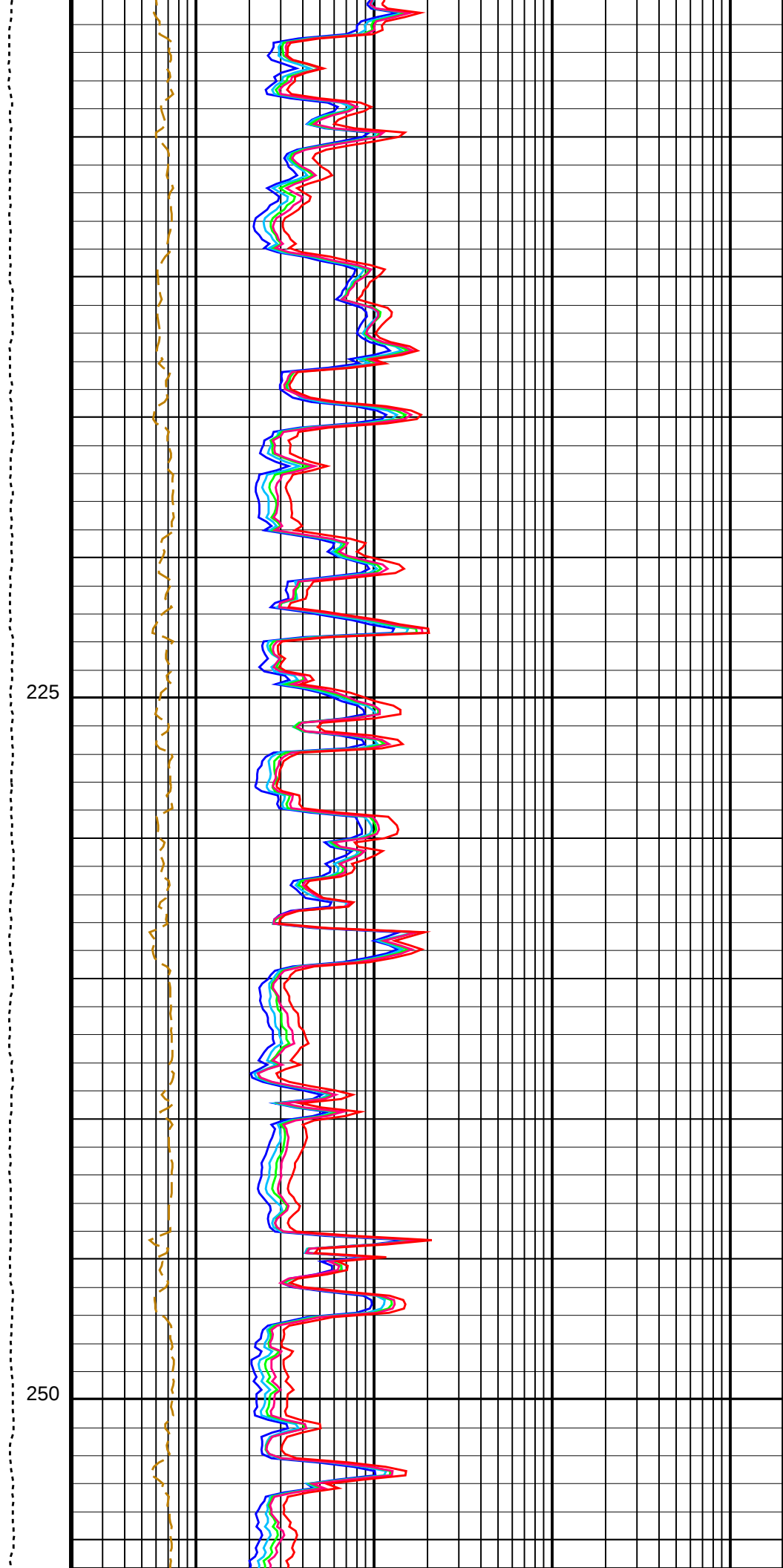
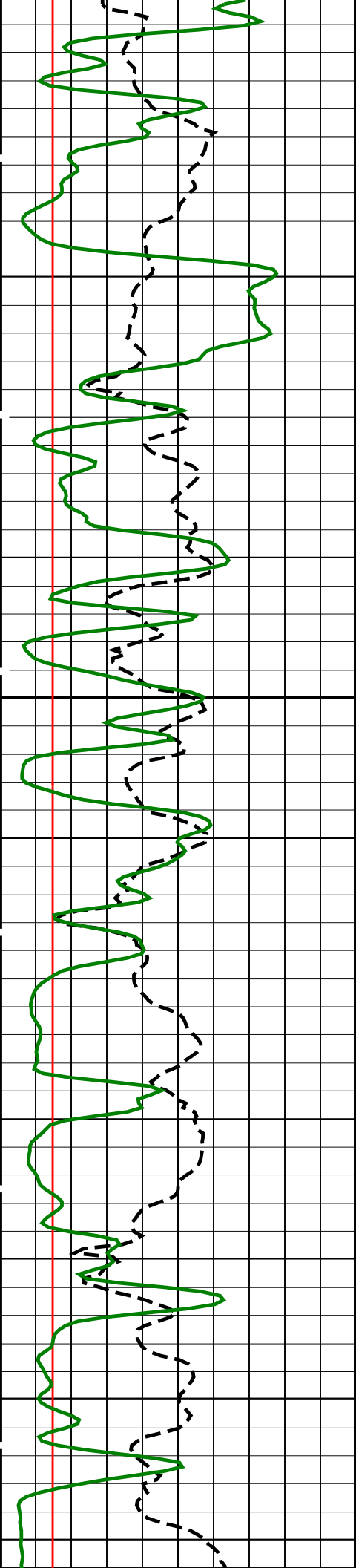


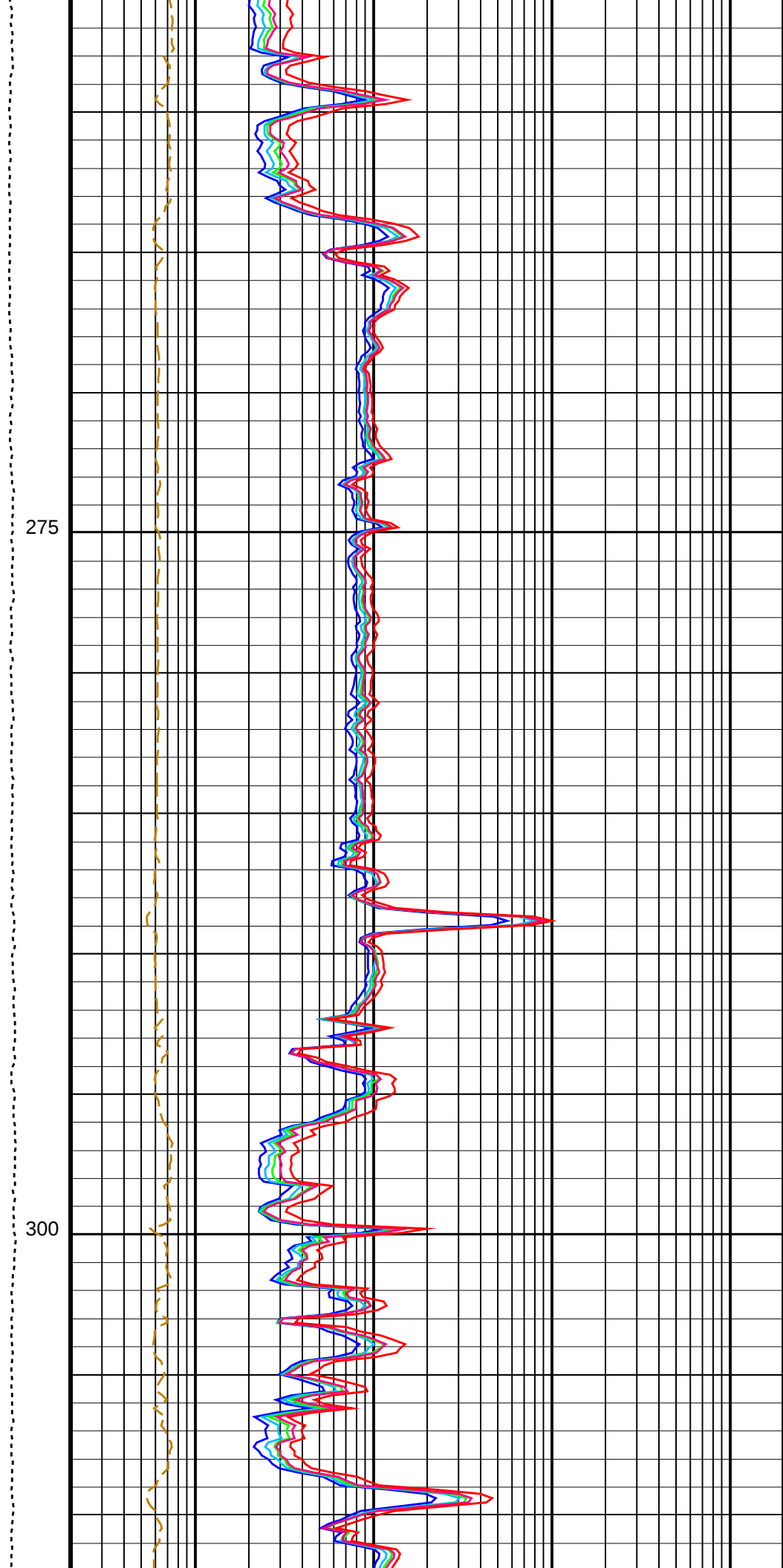
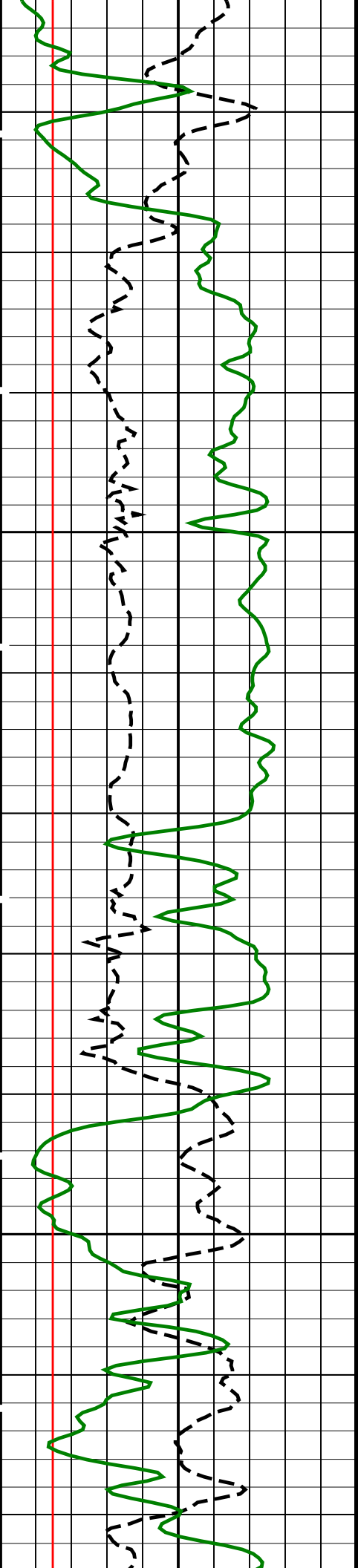
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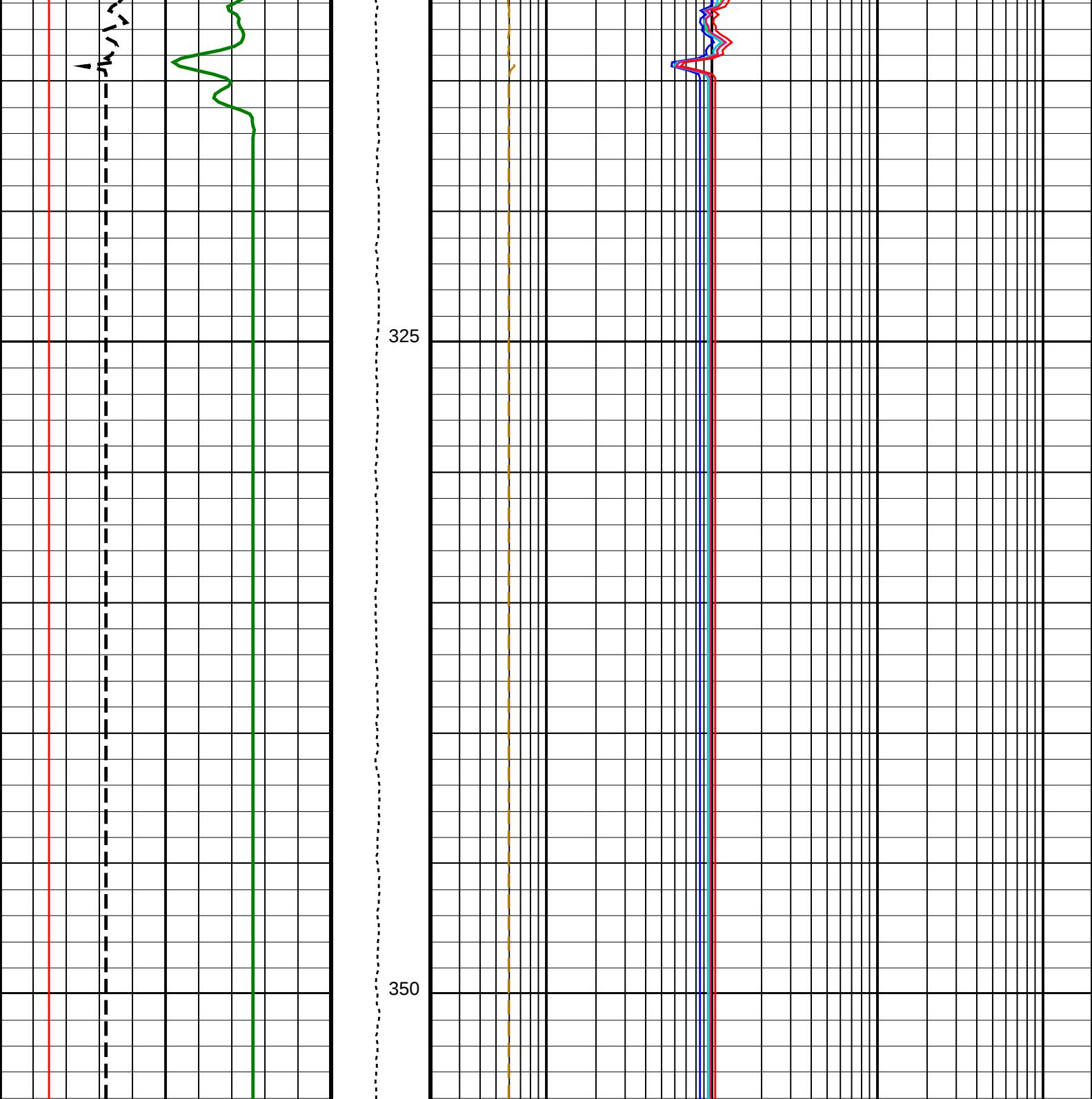
125











HLDS Caliper (LCAL) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	HRLT Resistivity 1 (RLA1) 0.2 (OHMM) 2000
Invasion Diameter (DI_HRLT) 0 (IN) 50		HRLT Resistivity 2 (RLA2) 0.2 (OHMM) 2000
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 150		HRLT Resistivity 3 (RLA3) 0.2 (OHMM) 2000
		HRLT Resistivity 4 (RLA4) 0.2 (OHMM) 2000
		HRLT Resistivity 5 (RLA5) 0.2 (OHMM) 2000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
PROCVN	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	0.25	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	-2	DEGC
APS-C: Accelerator-Porosity Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	-2	DEGC
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)	9	DEGC
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	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
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	-0.00186494	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	-2	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01327	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00569	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	-2	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	OFF	
TD	Total Depth	589.5	M

HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files

DEFAULT Flip_MSS_LDEO_HRLA_047PUP PRODUCER 24-Aug-2012 19:26 354.0 M -49.5 M

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_048PUP FN:60 PRODUCER 24-Aug-2012 19:27
CLIENT MSS_LDEO_HRLA_LDL_048PUC FN:61 CUSTOMER 24-Aug-2012 19:27

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-319.6	-319.4	0.2041	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-338.0	-338.2	-0.2024	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-337.0	-337.7	-0.7527	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-339.7	-340.4	-0.6500	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-326.6	-327.0	-0.3691	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-322.4	-322.8	-0.3436	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	329.6	329.5	-0.1481	9.681	UV
HRLT M0-M1 Voltage Plus - 7	0	N/A	-322.7	-322.7	0	9.681	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M12							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT M1-M2 Voltage Plus - 0	0	N/A	1756	1756	-0.6158	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1856	1857	0.9617	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1846	1850	4.336	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1861	1865	3.586	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1792	1793	1.703	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1770	1771	1.726	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1818	-1817	0.3804	53.42	UV
HRLT M1-M2 Voltage Plus - 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M23							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1743	1741	-1.801	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1855	1855	0.05615	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1846	1849	3.004	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1865	1867	2.499	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1788	1789	0.4794	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1767	1768	0.9688	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1805	-1803	1.592	53.42	UV
HRLT M2-M3 Voltage Plus - 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT V34							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT A3-A4 Voltage Plus - 0	0	N/A	68490	68480	-6.898	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	72670	72730	55.78	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	72620	72790	173.3	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	73650	73790	141.9	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	70590	70670	84.90	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	69790	69860	67.97	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	69300	69300	0	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	69300	69300	0	2100	UV

HRLT A3-A4 Voltage Plus - 6	0	N/A	-69690	-69700	-4.336	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	70000	70000	0	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT A4-A5 Voltage Plus - 0	0	N/A	68770	68770	-6.273	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	73080	73130	47.55	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	72990	73150	162.7	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	74000	74160	158.6	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	70890	70980	84.23	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70070	70140	70.54	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-70090	-70090	0.8594	2100	UV
HRLT A4-A5 Voltage Plus - 7	0	N/A	70000	70000	0	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT A5-A6 Voltage Plus - 0	0	N/A	68670	68670	1.883	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	72800	72850	57.60	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	72750	72920	164.3	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	73780	73950	167.0	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	70750	70840	94.93	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69950	70040	95.79	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-69820	-69820	-2.602	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	70000	0	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT Torpedo-M0 Voltage - 0	0	N/A	-68360	-68350	8.391	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-73140	-73190	-48.68	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-73060	-73230	-169.7	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-74090	-74240	-149.0	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-70970	-71050	-78.51	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-70110	-70190	-76.04	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	70100	70100	-3.305	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	-70000	0	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68350	-68340	11.38	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-73100	-73170	-66.95	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73030	-73210	-177.5	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-74060	-74230	-162.8	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-70950	-71030	-87.45	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-70110	-70190	-84.08	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	70080	70080	0.8281	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	-70000	0	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT Source Current Plus - 0	0	N/A	284.9	284.9	-0.02887	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	281.1	0	8.520	UA
High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT Vertical Voltage PI - 0	0	N/A	-321.9	-321.5	0.4278	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-332.0	-332.0	-0.006592	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-330.2	-330.8	-0.5406	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-331.3	-331.8	-0.4989	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-316.0	-316.1	-0.08594	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-327.0	-327.2	-0.1545	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	336.8	336.4	-0.3550	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	-322.7	0	9.681	UV
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 3-Aug-2012 12:38 Before: 21-Aug-2012 17:46 After: 21-Aug-2012 20:59							
SS Cs Resolution Bkg	9.000	7.952	8.041	7.929	-0.1112	1.800	%
LS Cs Resolution Bkg	9.000	8.109	8.122	8.094	-0.02860	1.800	%
LSW1 Background	100.0	71.68	71.83	71.86	0.02771	3.000	CPS
LSW2 Background	100.0	68.54	66.87	67.12	0.2519	3.000	CPS
LSW3 Background	200.0	146.7	147.7	146.2	-1.504	6.000	CPS
LSW4 Background	250.0	177.8	177.9	178.8	0.8978	7.500	CPS
LSW5 Background	600.0	409.7	409.1	409.8	0.7755	18.00	CPS
SSW1 Background	100.0	81.22	80.95	80.92	-0.03426	3.000	CPS
SSW2 Background	200.0	145.7	142.7	143.5	0.8675	6.000	CPS
SSW3 Background	500.0	389.5	386.1	386.2	0.1094	15.00	CPS
SSW4 Background	270.0	200.9	202.5	201.8	-0.7112	8.100	CPS

SSW5 Background	200.0	146.3	145.8	144.3	-1.516	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Aluminum Measurement							
Master: 3-Aug-2012 13:08							
LSW1 Aluminum	600.0	531.2	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	759.6	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	924.3	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	467.3	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	427.7	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2539	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6810	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9419	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3830	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	469.0	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Lithology Measurement							
Master: 3-Aug-2012 13:03							
LSW1 Iron	400.0	367.3	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	618.0	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	815.0	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	424.5	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	392.6	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1845	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5678	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8586	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3500	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	417.1	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration							
Before: 3-Aug-2012 13:28							
HLDS Caliper Small Ring	12.00	N/A	15.62	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.44	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration – Detector Background							
Master: 26-Jul-2012 12:44 Before: 21-Aug-2012 17:50 After: 21-Aug-2012 20:56							
Near Det Bkg Cntrate	30.00	32.40	31.99	30.83	-1.151	N/A	CPS
Far Det Bkg Cntrate	30.00	33.26	33.21	33.08	-0.1335	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.98	29.85	28.78	-1.068	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	29.00	29.26	29.63	0.3670	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.46	30.67	33.62	2.949	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration – Calibration Ratios							
Master: 26-Jul-2012 12:45							
Near/Far Calibration Ratio	0.9250	0.8878	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.065	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.018	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration – Tank Check							
Master: 26-Jul-2012 12:45							
Array-1 Standoff Porosity	11.75	10.57	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	10.16	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	6.071	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9785	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9681	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	28.31	N/A	N/A	N/A	N/A	CU
Accelerator-Porosity Tool Wellsite Calibration – CCR7 signal boxes							
Master: 26-Jul-2012 12:07							
Near Detector Plateau Setting	1650	1735	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2080	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 Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 15-Jul-2012 1:37 Before: 21-Aug-2012 17:48 After: 21-Aug-2012 21:00							
Na 511 Peak Loc	40.00	39.55	39.72	39.70	-0.01978	1.000	
Na 511 Peak Res	15.50	15.74	15.19	14.31	-0.8807	2.000	%
High Voltage	1150	1192	1137	1140	3.181	N/A	V
Na 1785 Peak Loc	142.6	141.9	142.9	142.4	-0.5346	7.000	
Na 1785 Peak Res	8.500	8.399	8.027	8.850	0.8229	2.000	%
Temperature	15.50	30.02	10.49	10.59	0.09754	N/A	DEGC
Na Count Rate	45.00	18.00	16.36	17.10	0.7449	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 15-Jul-2012 1:37 Before: 21-Aug-2012 17:48 After: 21-Aug-2012 21:00							
Na 511 Peak Loc	40.00	39.55	39.73	39.56	-0.1735	1.000	
Na 511 Peak Res	15.50	16.74	14.78	14.73	-0.05517	2.000	%
High Voltage	1150	1112	1075	1075	-0.2274	N/A	V
Na 1785 Peak Loc	142.6	142.2	143.4	141.5	-1.892	7.000	
Na 1785 Peak Res	8.500	9.140	7.340	9.782	2.442	2.000	%
Temperature	15.50	30.92	10.72	11.80	1.089	N/A	DEGC
Na Count Rate	45.00	18.43	16.45	17.17	0.7161	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 15–Jul–2012 1:37 Before: 21–Aug–2012 17:48 After: 21–Aug–2012 21:00							
Coincidence Count Rate Ratio	1.000	0.9742	0.9958	0.9997	0.003894	0.05000	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 21–Aug–2012 17:57							
EDTC Z–Axis Acceleration	9.810	N/A	9.859	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: 21–Aug–2012 17:45 After: 21–Aug–2012 20:57							
Gamma Ray (Jig – Bkg)	163.2	N/A	163.2	162.5	–0.6715	14.83	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	164.3	–0.6790	15.00	GAPI
Accelerator–Porosity Tool – Detector Plateau Settings :							
Near Detector Plateau Setting	1735 V						
Far Detector Plateau Setting	2080 V						
Array Detector Plateau Setting	1966 V						

High Resolution Laterolog Array – B / Equipment Identification		
Primary Equipment:		
HRLT Sonde	HRLS – B	768
Auxiliary Equipment:		
HRLT lower Housing	HRLH – B	968
HRLT Lower Cartridge	HRLC – B	974
HRLT upper Housing	HRUH – B	978
HRLT Upper Cartridge	HRUC – B	764

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT M01							
Idx	Phase	HRLT M0–M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		–319.6	–322.7	–280.7	–379.7	
	After		–319.4				
1	Before		–338.0	–322.7	–280.7	–379.7	
	After		–338.2				
2	Before		–337.0	–322.7	–280.7	–379.7	
	After		–337.7				
3	Before		–339.7	–322.7	–280.7	–379.7	
	After		–340.4				
4	Before		–326.6	–322.7	–280.7	–379.7	
	After		–327.0				
5	Before		–322.4	–322.7	–280.7	–379.7	
	After		–322.8				
6	Before		329.6	322.7	379.7	280.7	
	After		329.5				
7	Before		–322.7	–322.7	–280.7	–379.7	
	After		–322.7				
		(Minimum) (Nominal) (Maximum)					
Before: 21–Aug–2012 17:43							
After: 21–Aug–2012 20:35							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT M12							
Idx	Phase	HRLT M1–M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
	Before		1756				

0	After		1756	1781	2095	1549
1	Before		1856	1781	2095	1549
	After		1857			
2	Before		1846	1781	2095	1549
	After		1850			
3	Before		1861	1781	2095	1549
	After		1865			
4	Before		1792	1781	2095	1549
	After		1793			
5	Before		1770	1781	2095	1549
	After		1771			
6	Before		-1818	-1781	-1549	-2095
	After		-1817			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1743	1781	2095	1549
	After		1741			
1	Before		1855	1781	2095	1549
	After		1855			
2	Before		1846	1781	2095	1549
	After		1849			
3	Before		1865	1781	2095	1549
	After		1867			
4	Before		1788	1781	2095	1549
	After		1789			
5	Before		1767	1781	2095	1549
	After		1768			
6	Before		-1805	-1781	-1549	-2095
	After		-1803			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3-A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68490	70000	82360	60900
	After		68480			
1	Before		72670			

1	After		72730	70000	82360	60900
2	Before		72620	70000	82360	60900
	After		72790			
3	Before		73650	70000	82360	60900
	After		73790			
4	Before		70590	70000	82360	60900
	After		70670			
5	Before		69790	70000	82360	60900
	After		69860			
6	Before		-69690	-70000	-60900	-82360
	After		-69700			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68770	70000	82360	60900
	After		68770			
1	Before		73080	70000	82360	60900
	After		73130			
2	Before		72990	70000	82360	60900
	After		73150			
3	Before		74000	70000	82360	60900
	After		74160			
4	Before		70890	70000	82360	60900
	After		70980			
5	Before		70070	70000	82360	60900
	After		70140			
6	Before		-70090	-70000	-60900	-82360
	After		-70090			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68670	70000	82360	60900
	After		68670			
1	Before		72800	70000	82360	60900
	After		72850			
2	Before		72750	70000	82360	60900
	After		72750			

2	Before		72150	70000	82360	60900
	After		72920			
3	Before		73780	70000	82360	60900
	After		73950			
4	Before		70750	70000	82360	60900
	After		70840			
5	Before		69950	70000	82360	60900
	After		70040			
6	Before		-69820	-70000	-60900	-82360
	After		-69820			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						

Before: 21-Aug-2012 17:43
After: 21-Aug-2012 20:35

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VTP							
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68360	-70000	-60900	-82360	
	After		-68350				
1	Before		-73140	-70000	-60900	-82360	
	After		-73190				
2	Before		-73060	-70000	-60900	-82360	
	After		-73230				
3	Before		-74090	-70000	-60900	-82360	
	After		-74240				
4	Before		-70970	-70000	-60900	-82360	
	After		-71050				
5	Before		-70110	-70000	-60900	-82360	
	After		-70190				
6	Before		70100	70000	82360	60900	
	After		70100				
7	Before		-70000	-70000	-60900	-82360	
	After		-70000				
(Minimum) (Nominal) (Maximum)							

Before: 21-Aug-2012 17:43
After: 21-Aug-2012 20:35

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VBD							
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68350	-70000	-60900	-82360	
	After		-68340				
1	Before		-73100	-70000	-60900	-82360	
	After		-73170				
2	Before		-73030	-70000	-60900	-82360	
	After		-73210				
	Before		-74060				

3	Before		-74000	-70000	-60900	-82360
	After		-74230			
4	Before		-70950	-70000	-60900	-82360
	After		-71030			
5	Before		-70110	-70000	-60900	-82360
	After		-70190			
6	Before		70080	70000	82360	60900
	After		70080			
7	Before		-70000	-70000	-60900	-82360
	After		-70000			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.9	284.0	334.1	247.0
	After		284.9			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-321.9	-322.7	-280.7	-379.7
	After		-321.5			
1	Before		-332.0	-322.7	-280.7	-379.7
	After		-332.0			
2	Before		-330.2	-322.7	-280.7	-379.7
	After		-330.8			
3	Before		-331.3	-322.7	-280.7	-379.7
	After		-331.8			
	Before		-316.0			

4	Before		-316.0	-322.7	-280.7	-379.7
	After		-316.1	-322.7	-280.7	-379.7
5	Before		-327.0	-322.7	-280.7	-379.7
	After		-327.2	-322.7	-280.7	-379.7
6	Before		336.8	322.7	379.7	280.7
	After		336.4	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Hostile Litho Density Sonde
Hostile Litho Density High Voltage
Gamma Source Radioactive

HLDS - D 45
HLDV - D 45
GSR - Z 8113

Auxiliary Equipment:

Hostile Litho Density Pad
Hostile Litho Density High Voltage Housi

HLDP - C 45
HEH - H 47

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		7.952	Master		8.109	Master		71.68
Before		8.041	Before		8.122	Before		71.83
After		7.929	After		8.094	After		71.86
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		68.54	Master		146.7	Master		177.8
Before		66.87	Before		147.7	Before		177.9
After		67.12	After		146.2	After		178.8
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		409.7	Master		81.22	Master		145.7
Before		409.1	Before		80.95	Before		142.7
After		409.8	After		80.92	After		143.5
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		389.5	Master		200.9	Master		146.3
Before		386.1	Before		202.5	Before		145.8
After		386.2	After		201.8	After		144.3
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: 3-Aug-2012 12:38			Before: 21-Aug-2012 17:46			After: 21-Aug-2012 20:59		

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment:

LDSC Cartridge

LDSC - B 521

Auxiliary Equipment:

LDSC Housing

LDSC - A 521

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:

Accelerator-Porosity Sonde
APS Minitron

APS - C 22
MNTR - F 5978

Auxiliary Equipment:

Accelerator-Porosity Housing
APS Calibration Water Tank
APS Aluminum Calibrator Sleeve

APH - AC 22
SFT - 178 1
SFT - 281 1

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		32.40	Master		33.26	Master		29.98
Before		31.99	Before		33.21	Before		29.85
After		30.83	After		33.08	After		28.78
	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		29.00	Master		32.46			
Before		29.26	Before		30.67			
After		29.63	After		33.62			
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				
Master: 26-Jul-2012 12:44			Before: 21-Aug-2012 17:50			After: 21-Aug-2012 20:56		

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		0.8878	Master		1.065	Master		1.018
	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)	
Master: 26-Jul-2012 12:45								

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		10.57	Master		10.16	Master		6.071
	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		0.9785	Master		0.9681	Master		28.31
	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: 26-Jul-2012 12:45								

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

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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				39.55	Master				15.74	Master				1192
Before				39.72	Before				15.19	Before				1137
After				39.70	After				14.31	After				1140
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				141.9	Master				8.399	Master				30.02
Before				142.9	Before				8.027	Before				10.49
After				142.4	After				8.850	After				10.59
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				18.00										
Before				16.36										
After				17.10										
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)														
Master: 15-Jul-2012 1:37				Before: 21-Aug-2012 17:48				After: 21-Aug-2012 21:00						

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			39.55	Master			16.74	Master			1112					
Before			39.73	Before			14.78	Before			1075					
After			39.56	After			14.73	After			1075					
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			142.2	Master			9.140	Master			30.92					
Before			143.4	Before			7.340	Before			10.72					
After			141.5	After			9.782	After			11.80					
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			18.43													
Before			16.45													
After			17.17													
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)				
Master: 15-Jul-2012 1:37				Before: 21-Aug-2012 17:48				After: 21-Aug-2012 21:00								

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		0.9742	
Before		0.9958	
After		0.9997	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 15-Jul-2012 1:37			

Before: 21-Aug-2012 17:48
After: 21-Aug-2012 21:00

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG - A/B	77693
Enhanced DTS Cartridge	EDTC - B	8529
Auxiliary Equipment:		
EDTC Housing	EDTH - B	8528

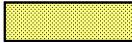
Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.859
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 21-Aug-2012 17:57		

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		1.756	Before		163.2	Before		165.0
After		4.001	After		162.5	After		164.3
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			148.3 (Minimum) 163.2 (Nominal) 178.0 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)	
Before: 21-Aug-2012 17:45			After: 21-Aug-2012 20:57					

Company: **Lamont Doherty Earth Observatory**
Shell

Well: **Expedition 344S, U0080A (USC80)**

Field: **Baffin Bay**

Rig: **JOIDES Resolution**

Country: **USA**

Schlumberger

HRLA Resistivity