

Company: JOGMEC
Well: AURORA/JOGMEC/NRCAN MALLIK 2L-38
Field: MALLIK
Province: NWT

[illegible][illegible]

OTHER SERVICES1	OTHER SERVICES2
OS1: 2.APS-PEX-CMR-ECS	OS1:
OS2: HNCS	OS2:
OS3: 3.FMI-MSIP-EMS	OS3:
OS4: 4.MRX	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
ZAIT LOGGED WITH 2.5in STANDOFF AND ECCENTERED WITH PPC	
APS HAS LARGE HOLE KIT INSTALLED	
HRLT CENTERED WITH LCME'S	
PPC 1 HAS LARGE HOLE KIT INSTALLED AND SET TO ALL POWERED	
PPC 2 HAS LARGE HOLE KIT INSTALLED AND SET TO ECCENTER	
EMS HAS LARGE HOLE KIT INSTALLED	
BS = 9.875" FROM TD-1296M	

BS = 14.25" FROM 1296-SC					
REPEAT PERFORMED OVER 850-1150M					
SLB ONLY LOGGED DOWN TO 1296M					
APS MINITRON PRESSURE READING 4PSI ,SO DID NOT POWER UP MINITRON.					
WILL ADD APS BACKUP TO RUN 2					
ZAIT ARRAY INDUCTION PLUS VOLT AGE IN HOUSTON MASTERCAL					
AS WELL AS MALLIK BEFORE CALIBRAION FLAGGED					
RIG: AKITA 62					
CREW: JAMES MACDONALD / MARK KIMBALL / MIKE KLOC					















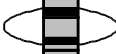



RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

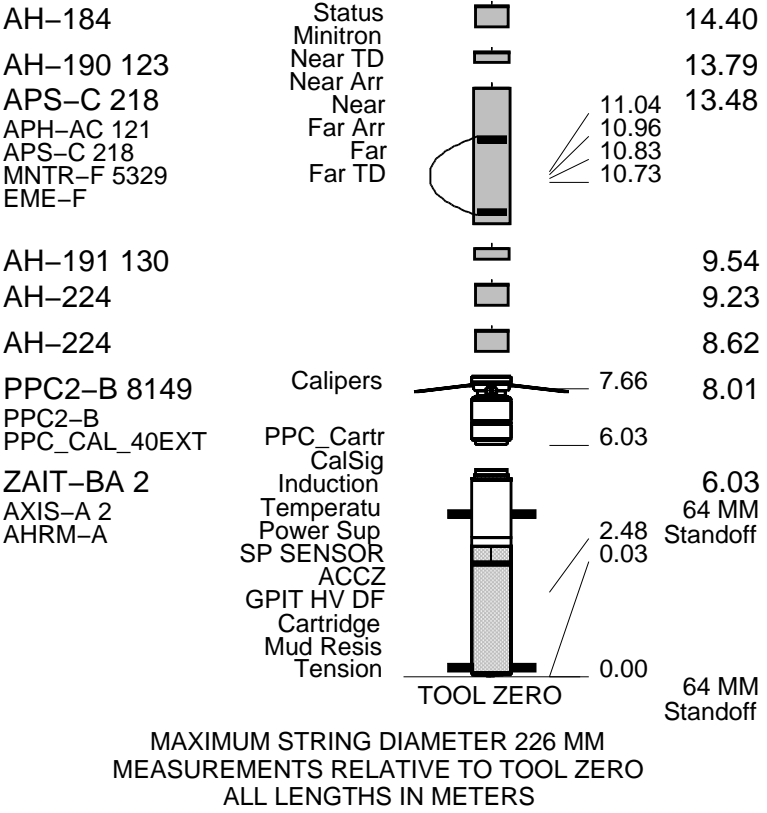
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT

SFT-281 12673
SFT-178 53
WITM (EDTS)-A

DOWNHOLE EQUIPMENT

LEH-QT			37.08
AH-169 2779			36.19
EDTC-B 8265	Mud Tempe		35.79
EDTH-B 8253	CTEM		34.72
EDTC-B	Gamma Ray		34.15
	EDTCB Ele		33.80
PPC1-B 8148	Calipers		33.46
PPC1-B			33.80
PPC_CAL_40EXT	PPC_Cartr		31.82
AH-255(+45D) 8053			31.82
AH-SFT			31.60
AH-SFT			
GPIT-C 1943			30.38
GPIC-C			
AH-SFT			29.16
AH-SFT			
EMS-B 8035	Mud Resis		27.76
EMA-B 8018	Mud Tempe		27.51
RES			27.94
EMC-B 8035			
ECH-KH 8045	Calipers		24.63
EMM-B 8102			
HRLT-B			23.60
HRUH-B 983			
HRUC-B 980			
HRLS-B 973			
HRLH-B 972	High Res.		20.01
HRLC-B 976			
AH-270 1718			
AH-224			16.22
AH-184			15.61
AH-184			15.01

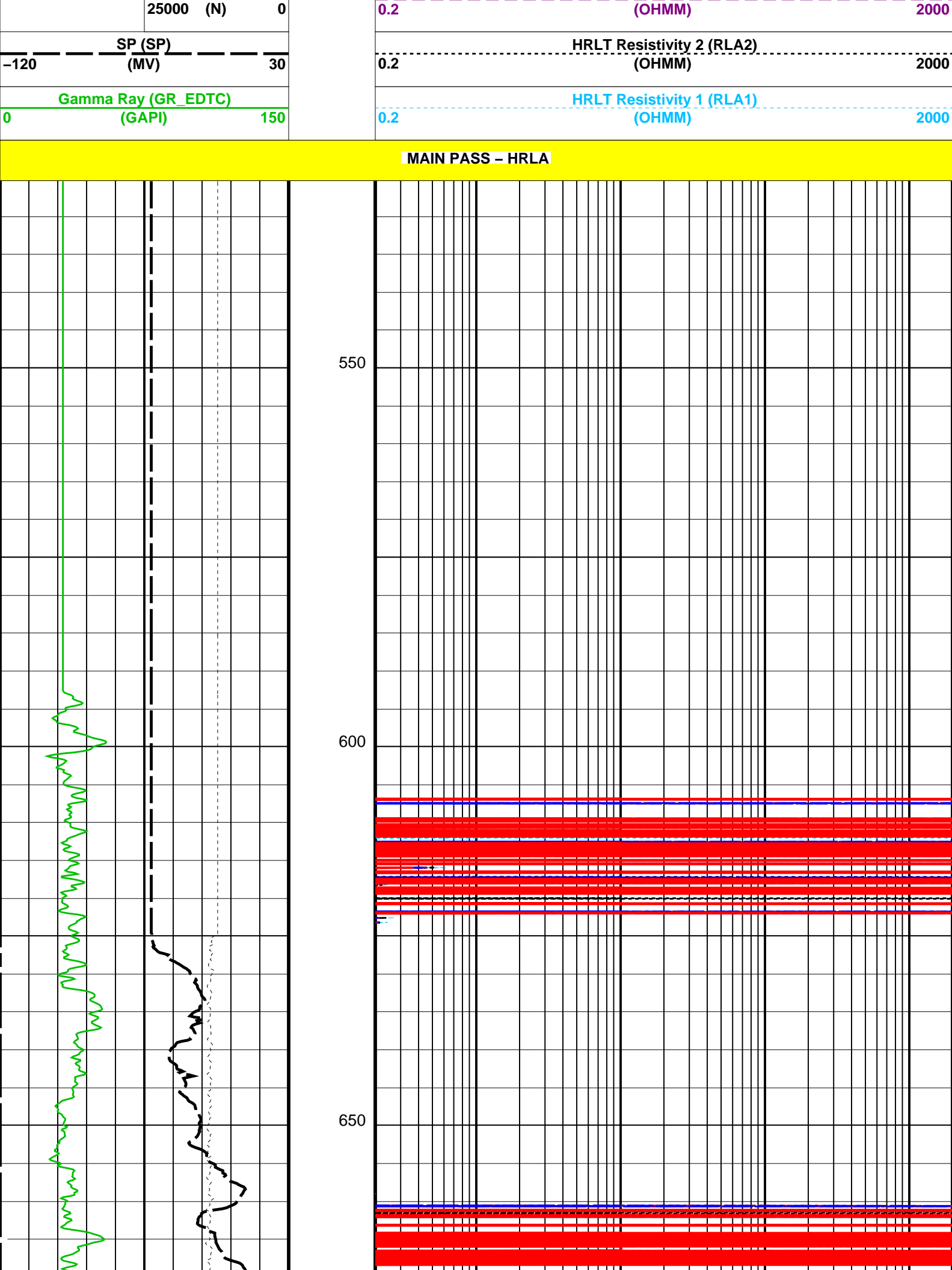


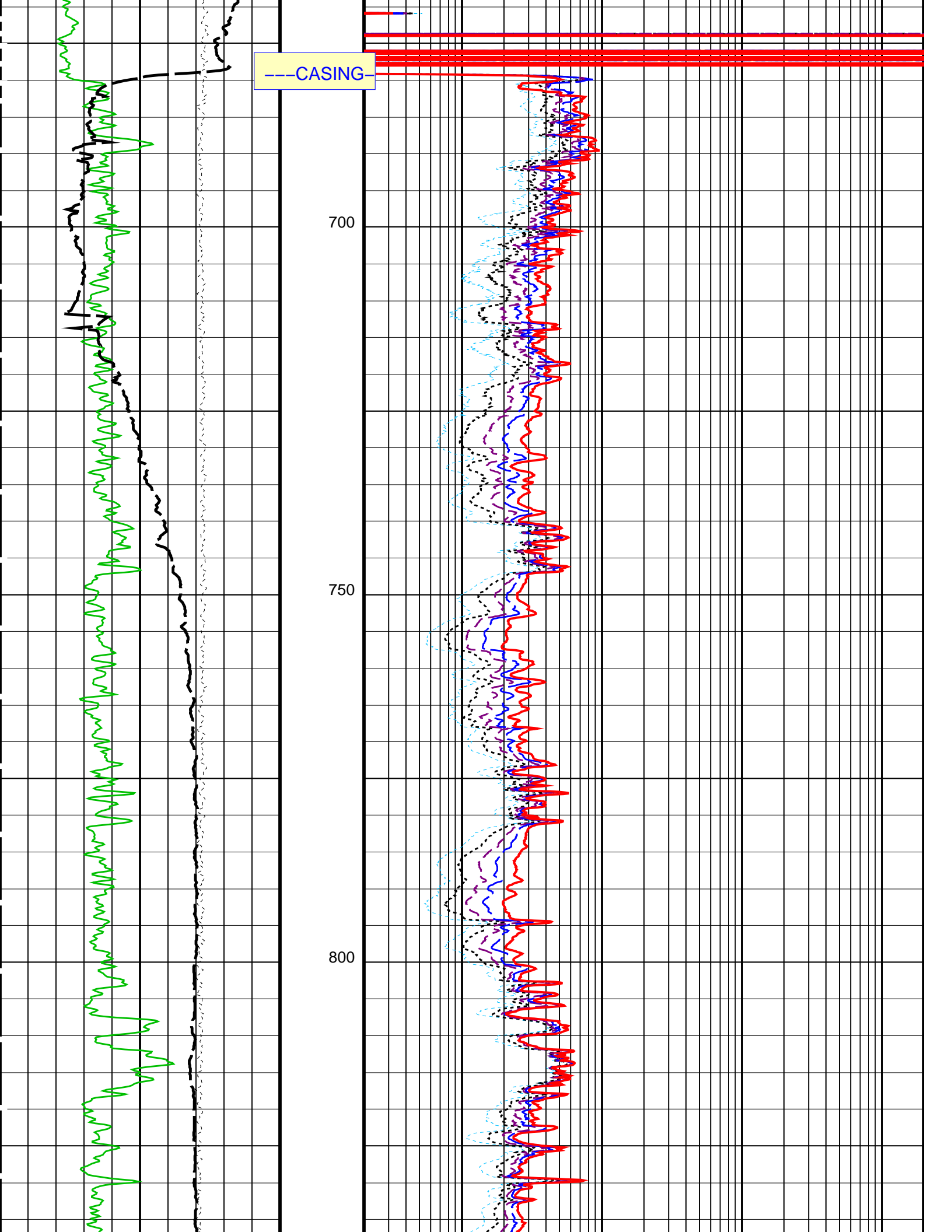
MAIN PASS HIGH RESOLUTION
LATEROLOG ARRAY 1:600

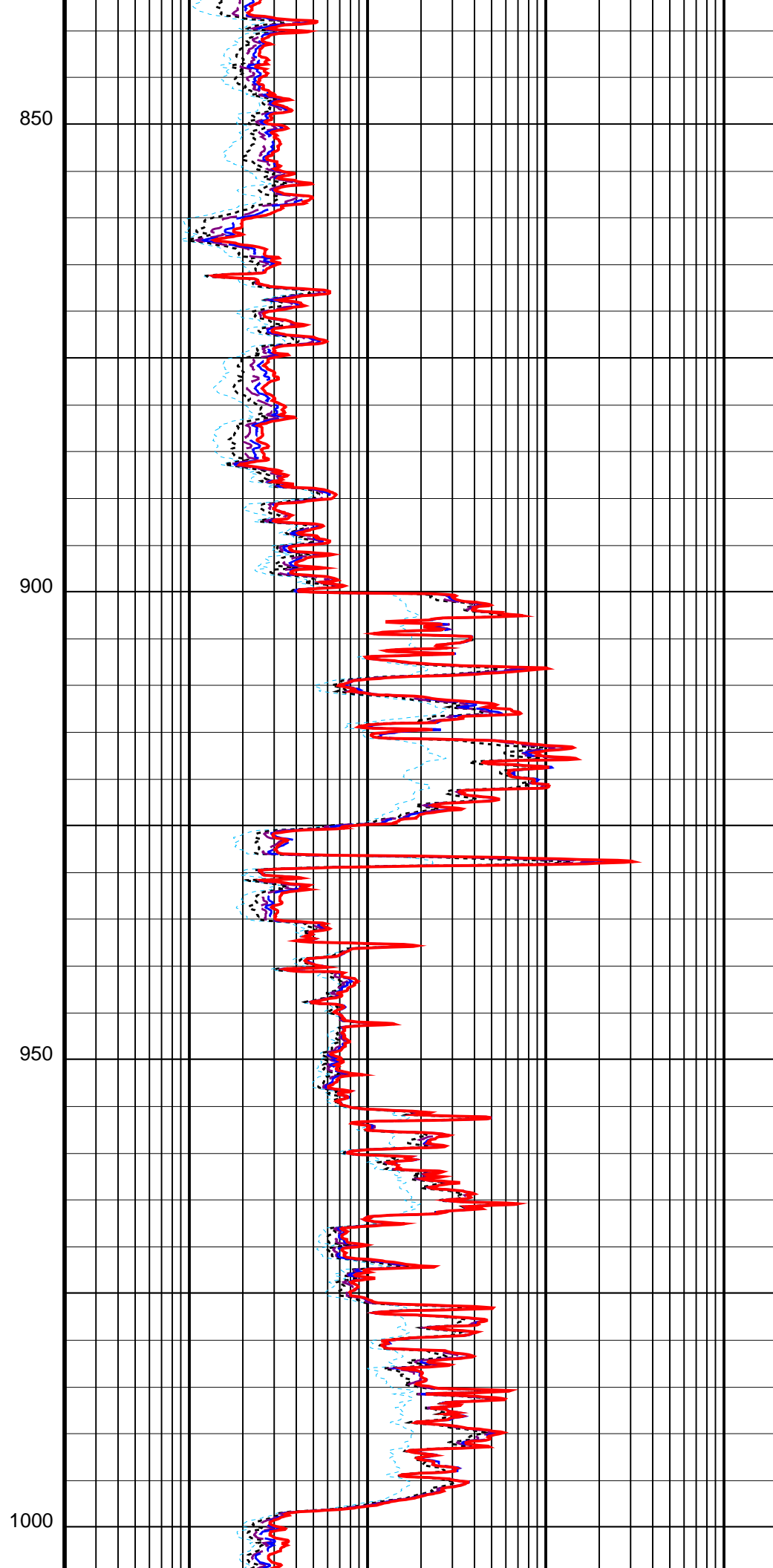
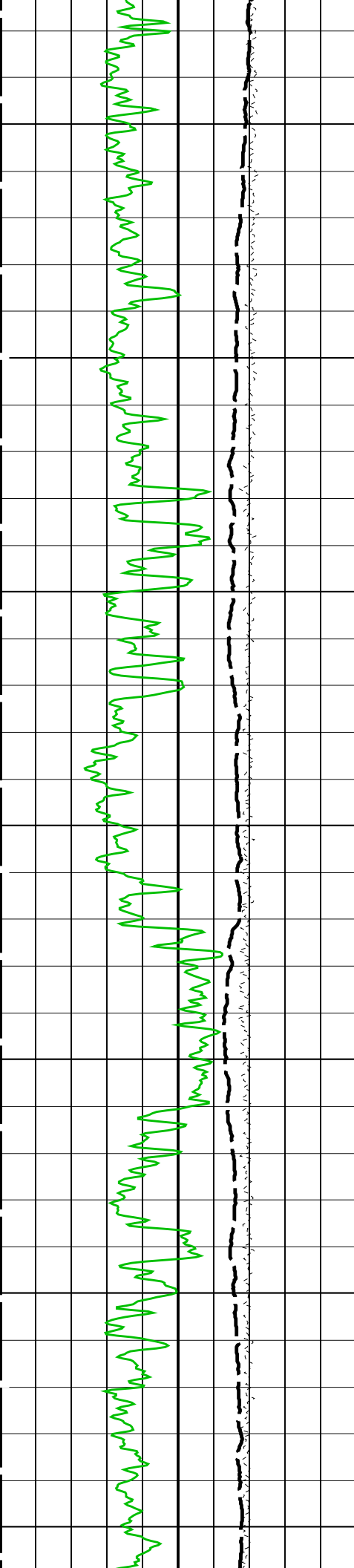
MAXIS Field Log

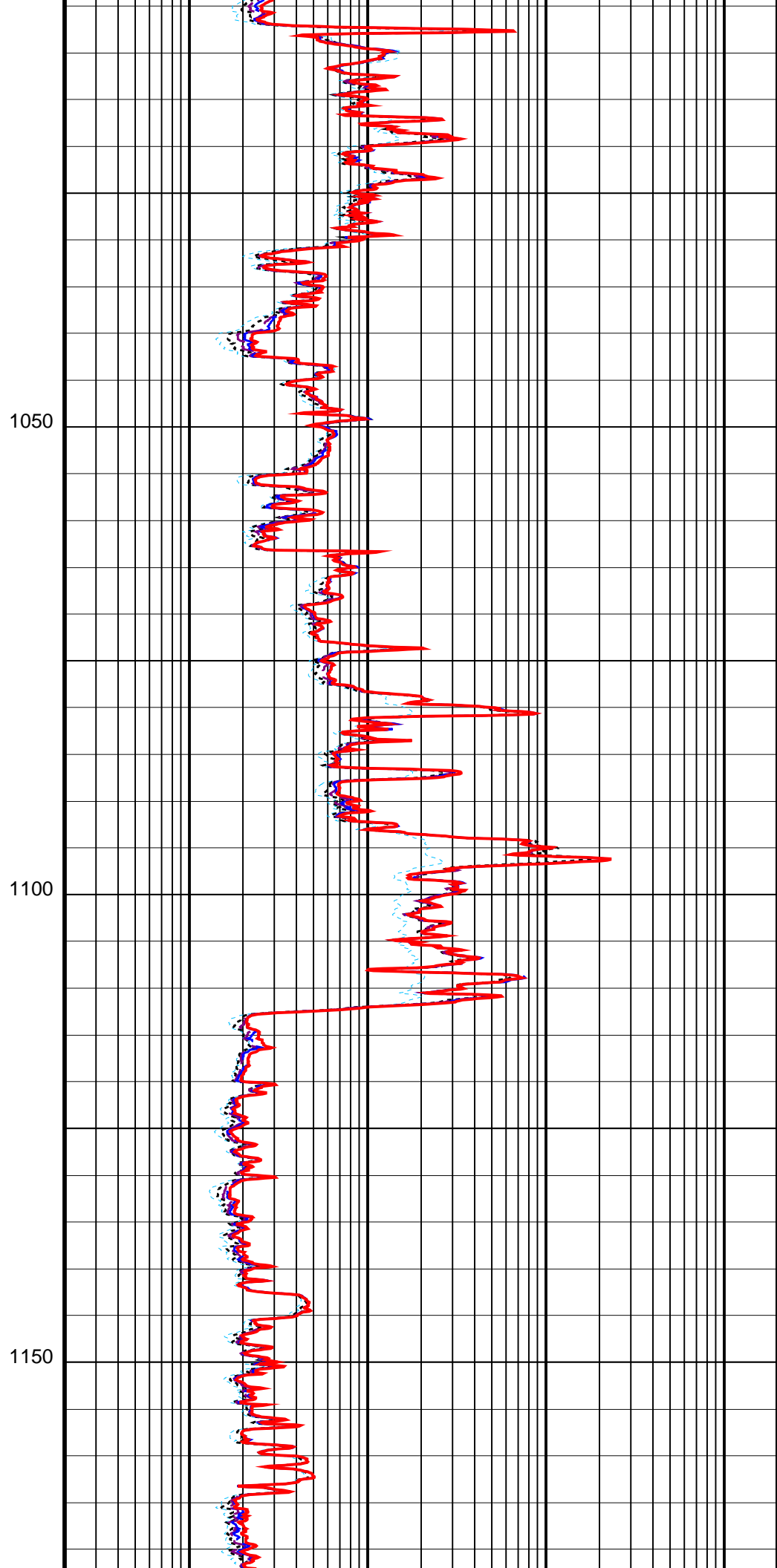
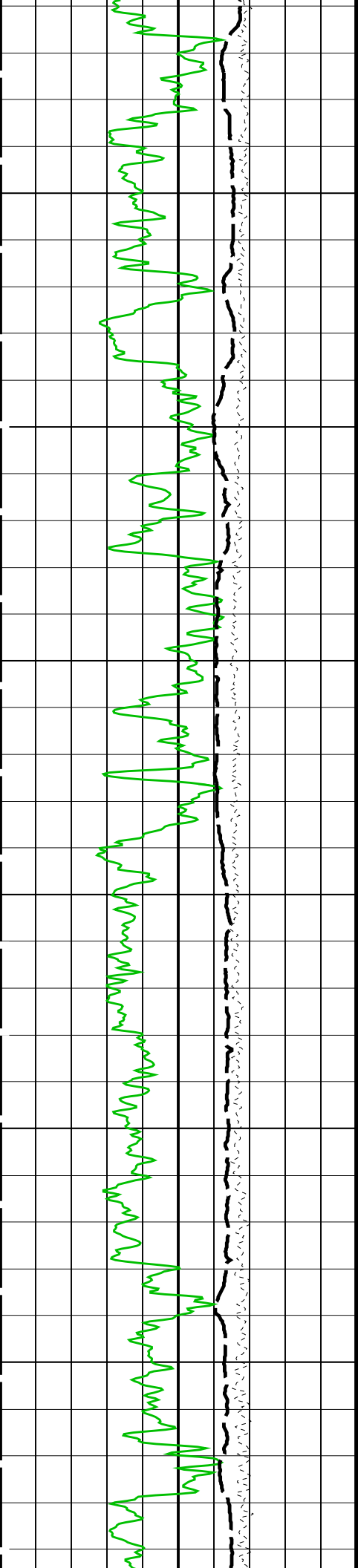
Input DLIS Files						
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Output DLIS Files						
DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16	1295.2 M	525.2 M
CLIENT_DATA_NOA	AIT_CAL_APS_HRLA_085PUP	FN:99	PRODUCER	06-Mar-2007 14:16	1295.2 M	525.2 M
OP System Version: 14C0-302						
MCM						
ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b			
APS-C	14C0-302	HRLT-B	14C0-302			
EMS-B	14C0-302	GPIT-C	14C0-302			
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b			

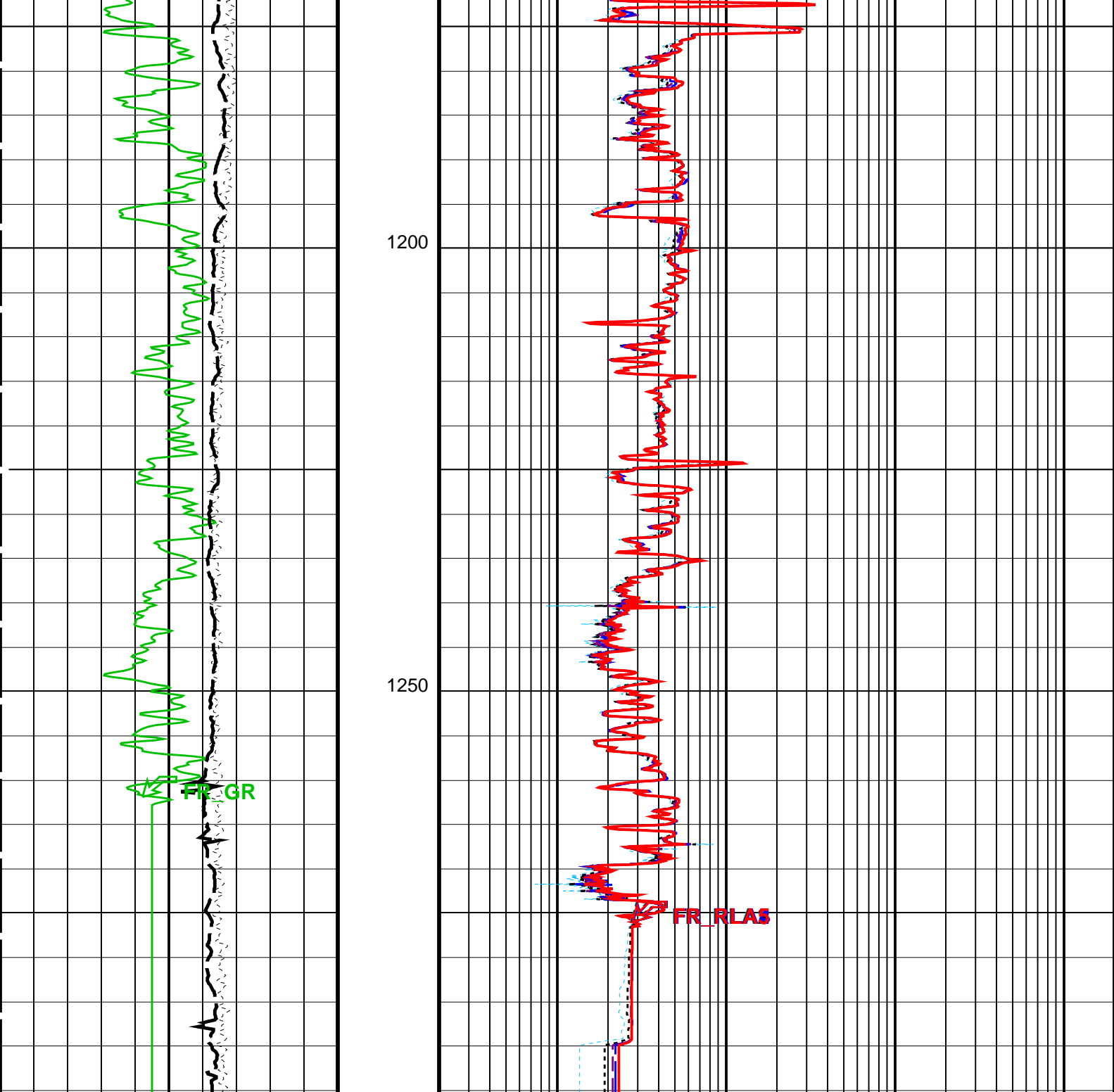
PIP SUMMARY			
Time Mark Every 60 S			
		HRLT Resistivity 5 (RLA5)	
0.2		(OHMM)	2000
		HRLT Resistivity 4 (RLA4)	
0.2		(OHMM)	2000
Tension (TENS)		HRLT Resistivity 3 (RLA3)	











MAIN PASS - HRLA

Gamma Ray (GR_EDTC) (GAPI)		HRLT Resistivity 1 (RLA1) (OHMM)	
0	150	0.2	2000
SP (SP) (MV)		HRLT Resistivity 2 (RLA2) (OHMM)	
-120	30	0.2	2000
Tension (TENS) (N)		HRLT Resistivity 3 (RLA3) (OHMM)	
25000	0	0.2	2000
		HRLT Resistivity 4 (RLA4) (OHMM)	
		0.2	2000
		HRLT Resistivity 5 (RLA5) (OHMM)	
		0.2	2000

Parameters

DLIS Name	Description	Value
SPNV	ZAiT-BA: 3-D Array Induction Tool – ZAIT–	
TRIRT	SP Next Value	0 MV
	3D Rotation Selector	NorTH
KFAC_HRLT	HRLT-B: High Resolution Laterolog Array – E	
	HRLT K Factor Option	SONDE
	STI: Stuck Tool Indicator	
LBFR	Trigger for MAXIS First Reading Label	TDL
STKT	STI Stuck Threshold	1.524 M
TDD	Total Depth – Driller	1310.00 M
TDL	Total Depth – Logger	1296.00 M
	System and Miscellaneous	
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE

Format: HRLT-S2-CAN Vertical Scale: 1:600 Graphics File Created: 06-Mar-2007 14:16

OP System Version: 14C0-302

MCM

ZAiT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M
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Output DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16
CLIENT_DATA_NOA	AIT_CAL_APS_HRLA_085PUP	FN:99	PRODUCER	06-Mar-2007 14:16



MAIN PASS HIGH RESOLUTION LATEROLOG ARRAY 1:240

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M
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Output DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16	1295.2 M	525.2 M
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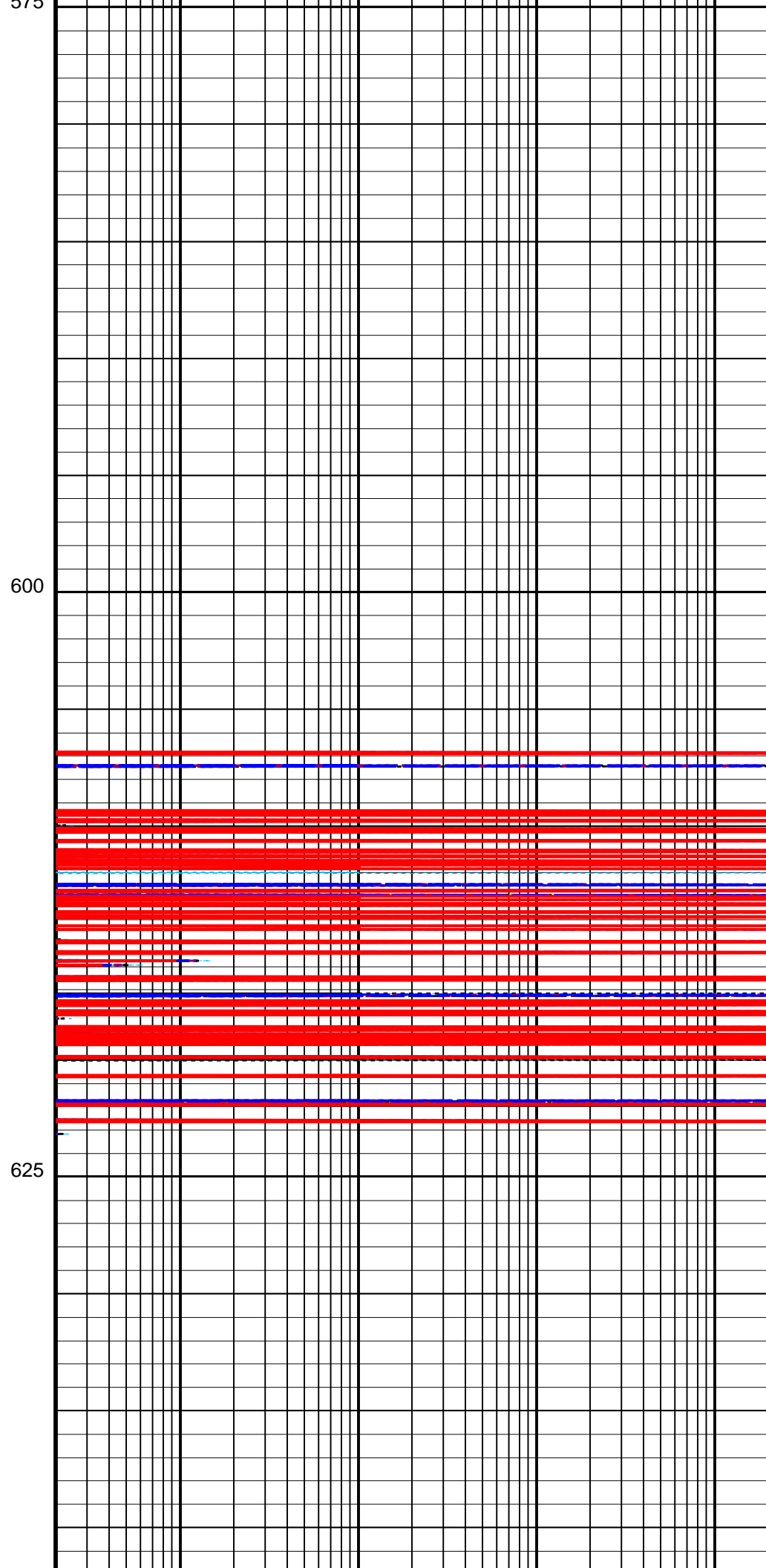
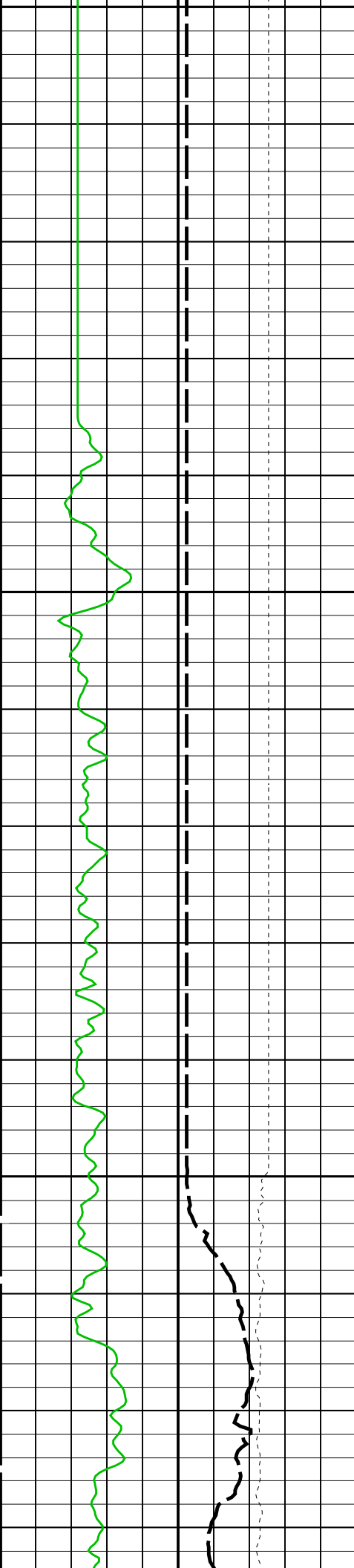
OP System Version: 14C0-302

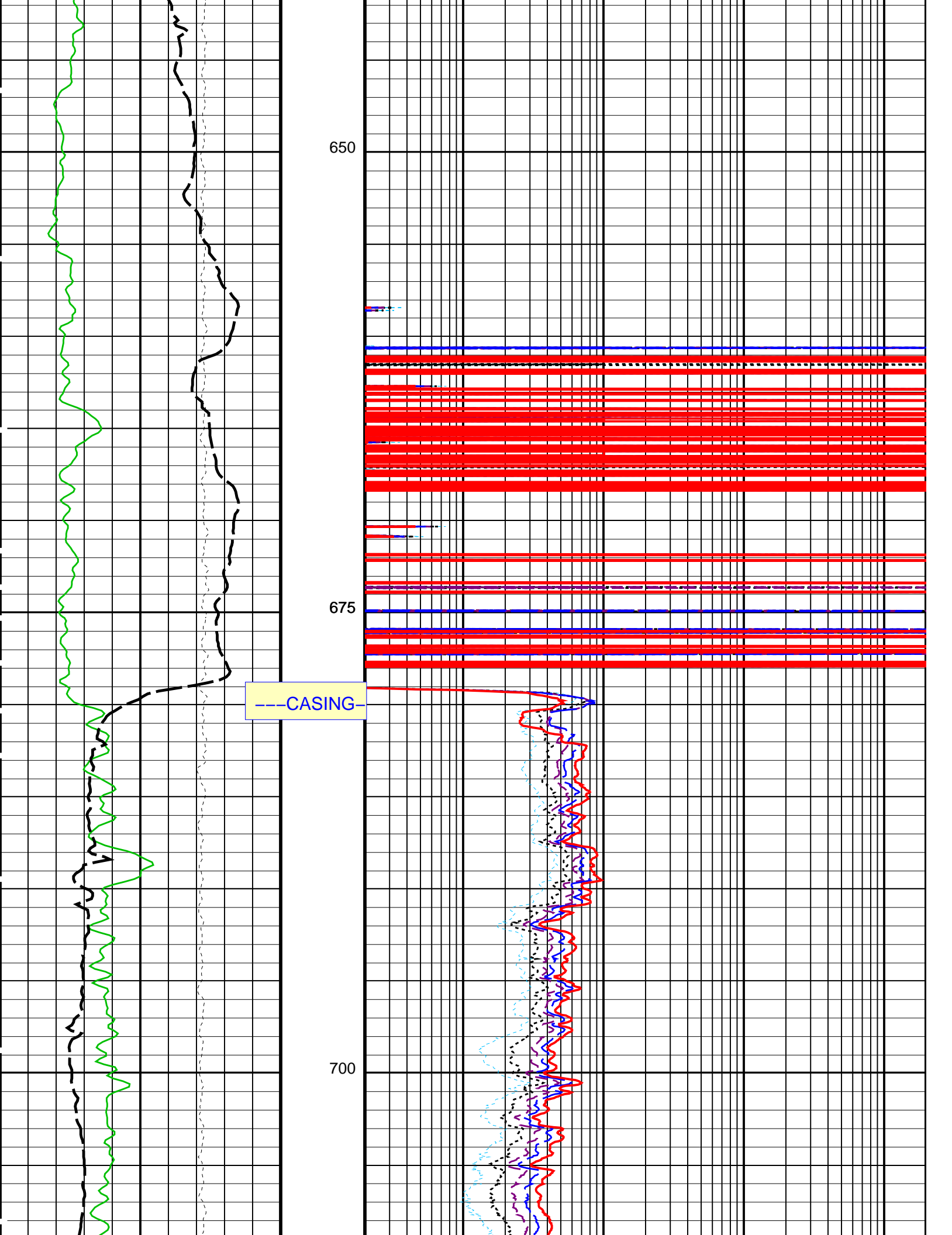
MCM

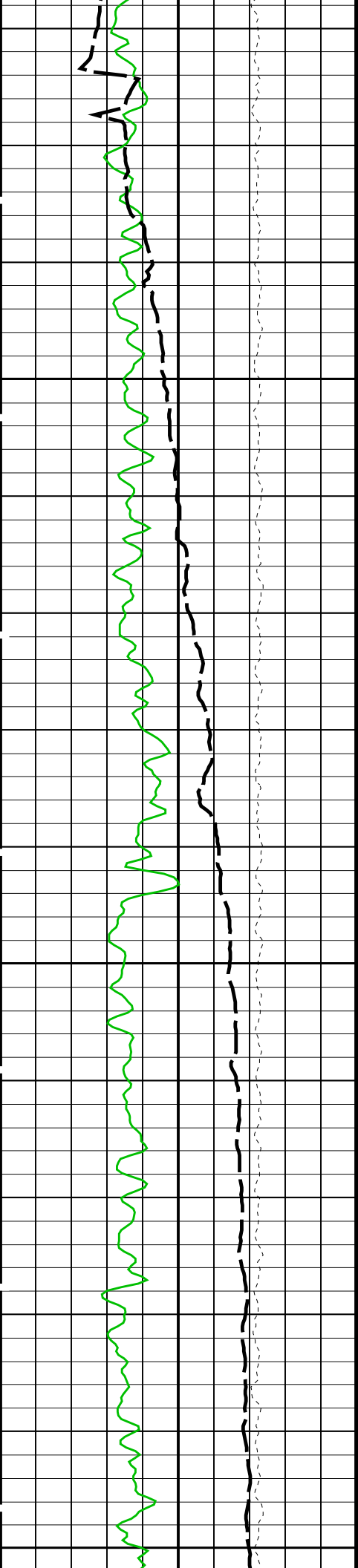
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APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

PIP SUMMARY

[illegible]



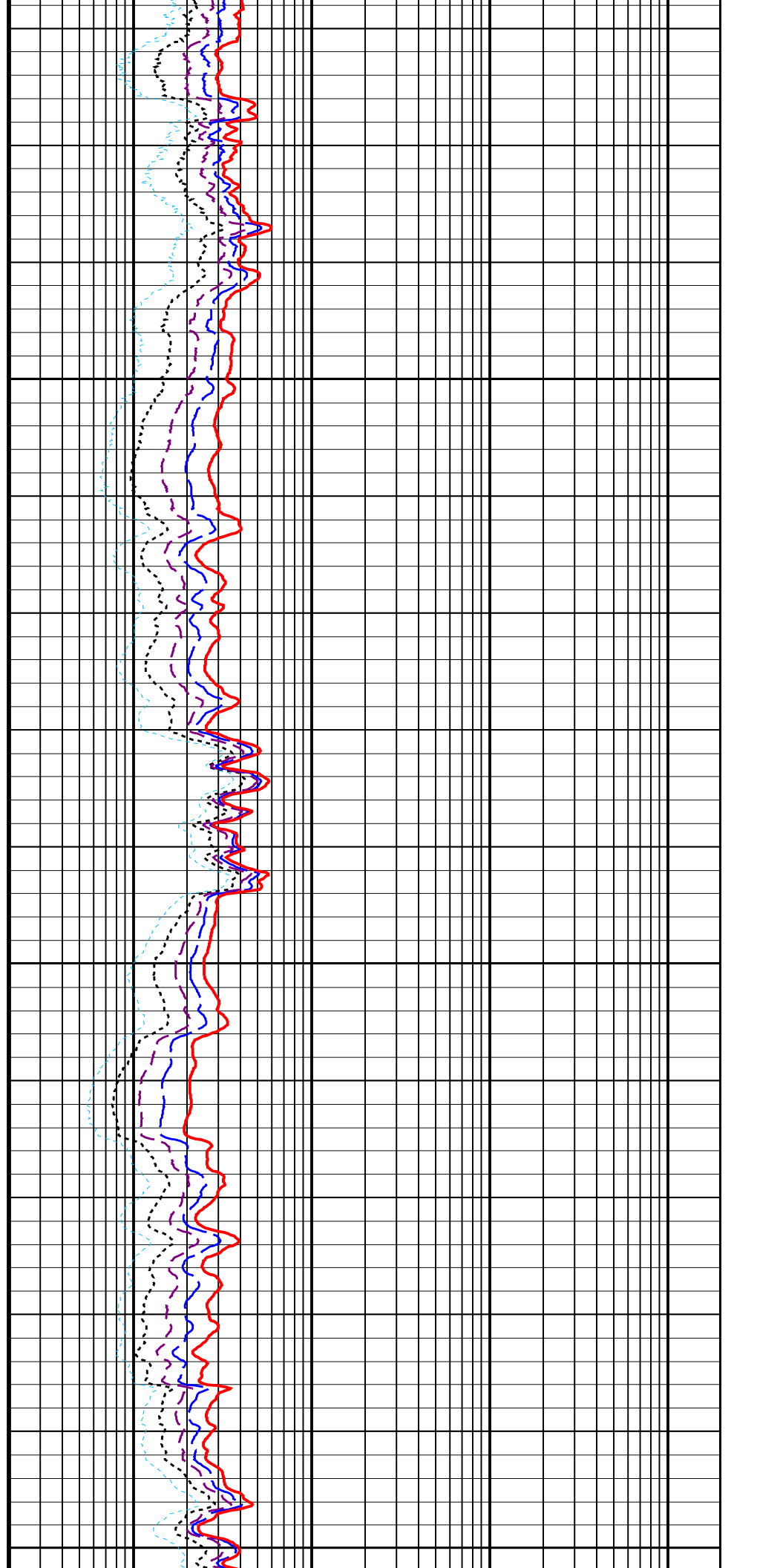


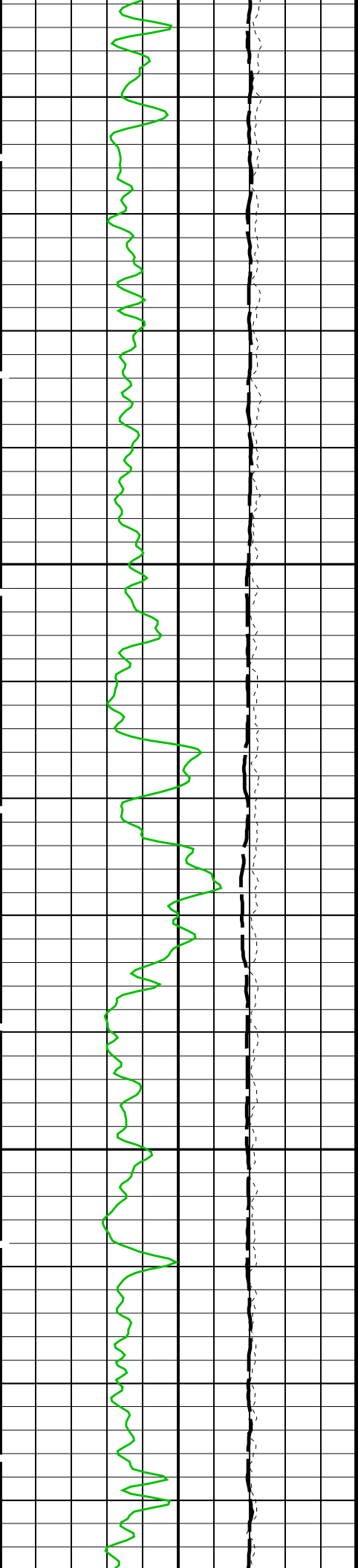


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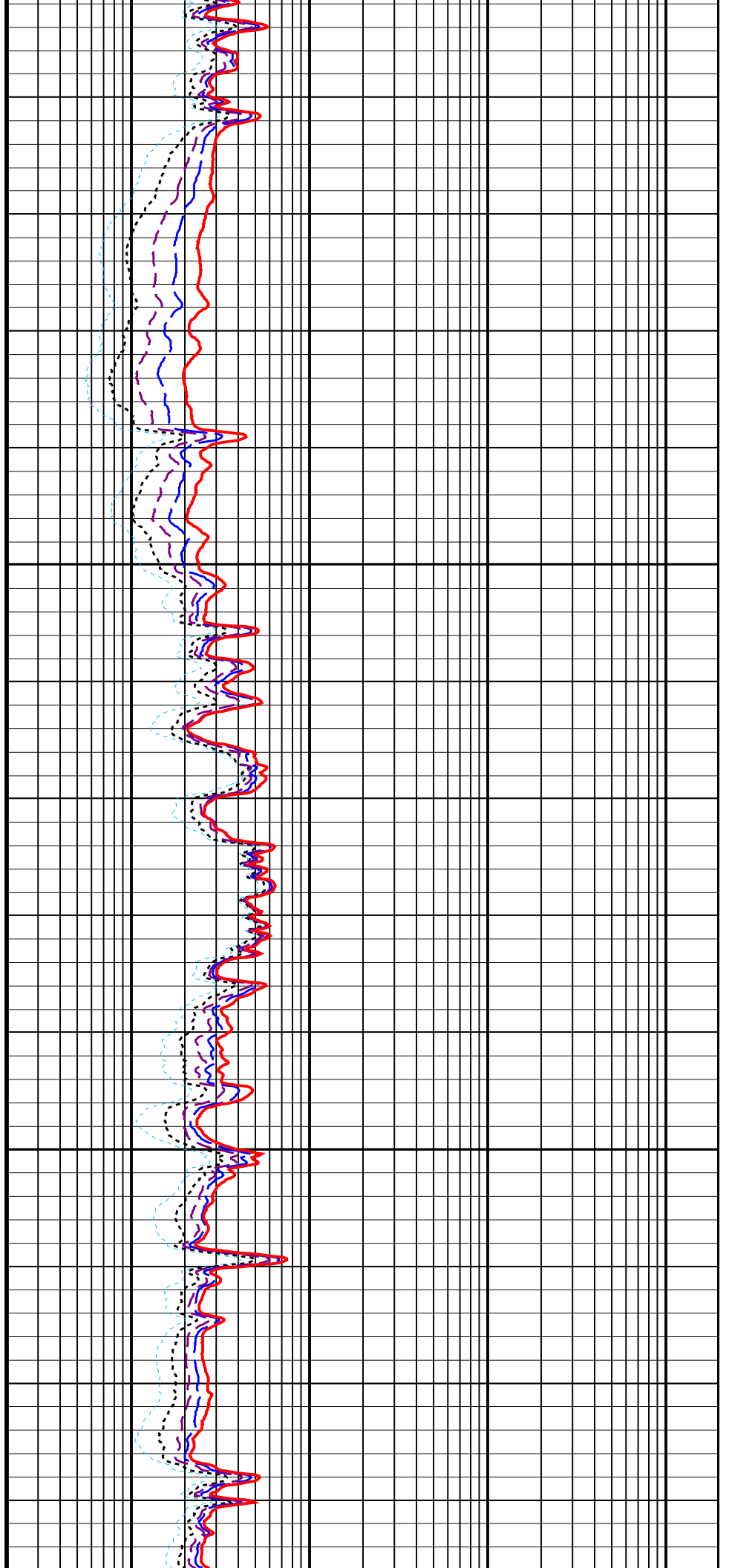
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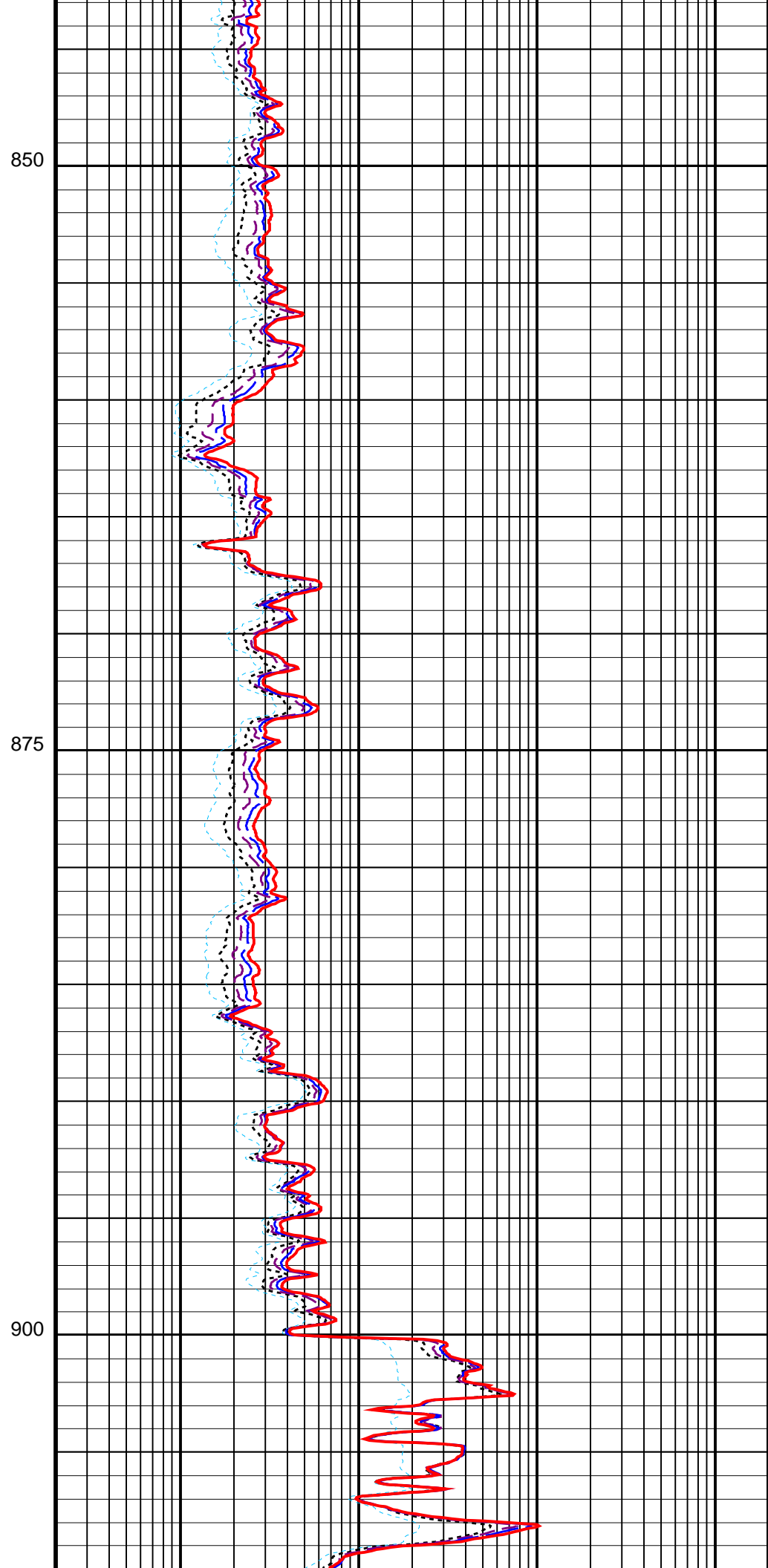
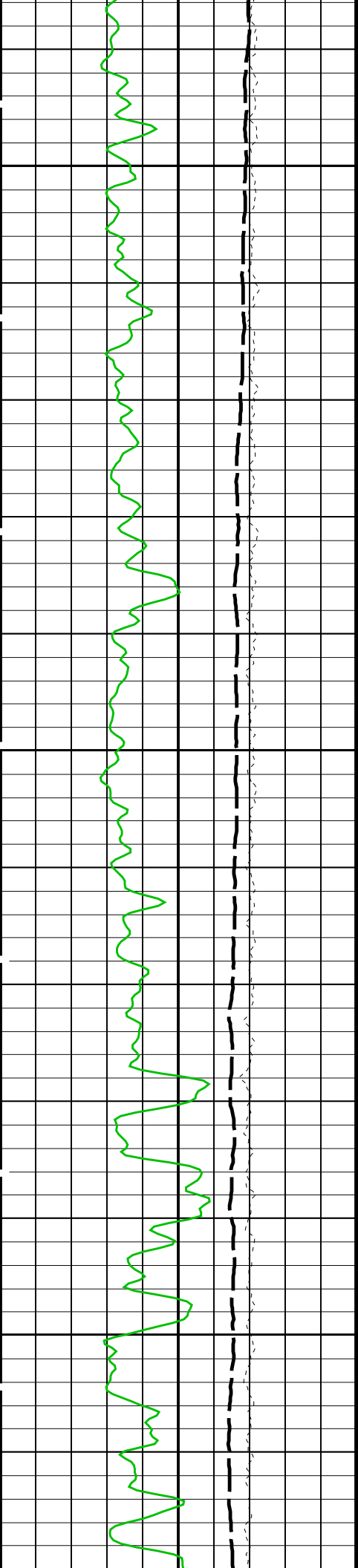


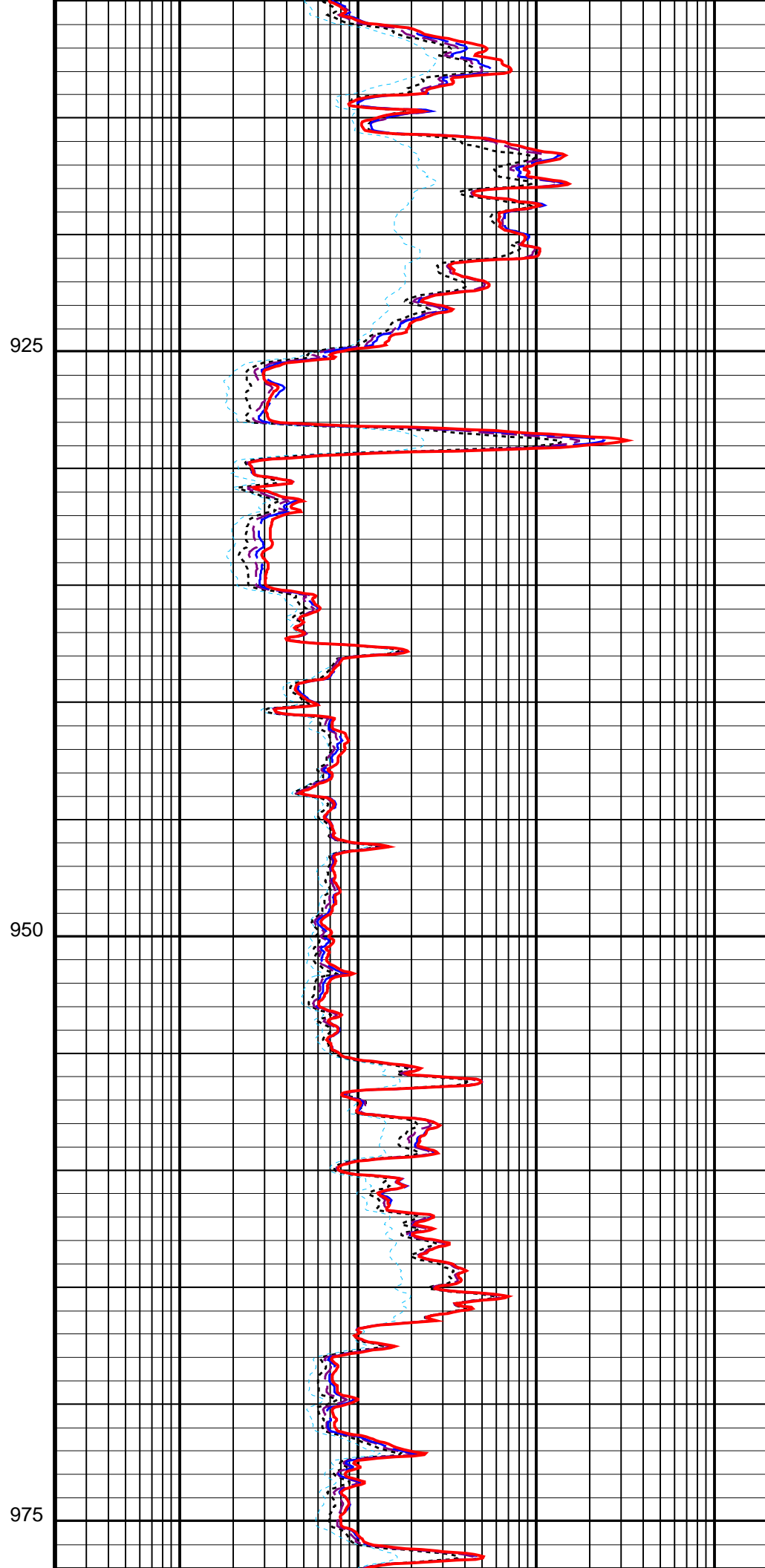
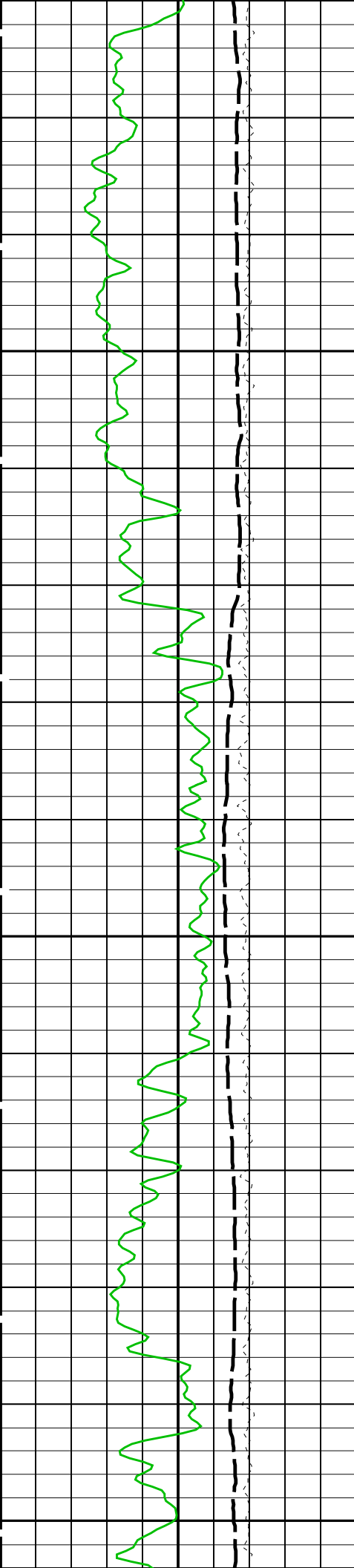


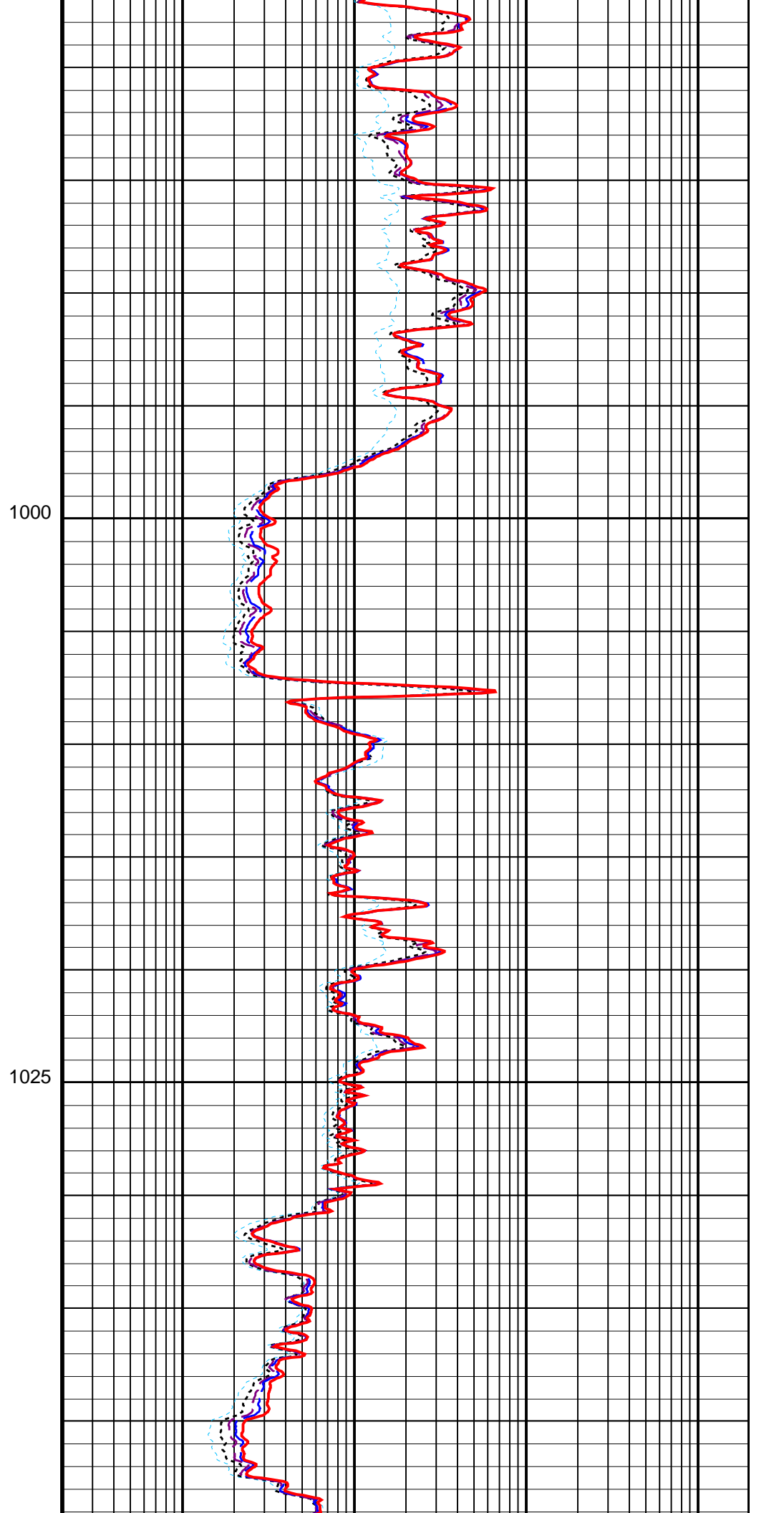
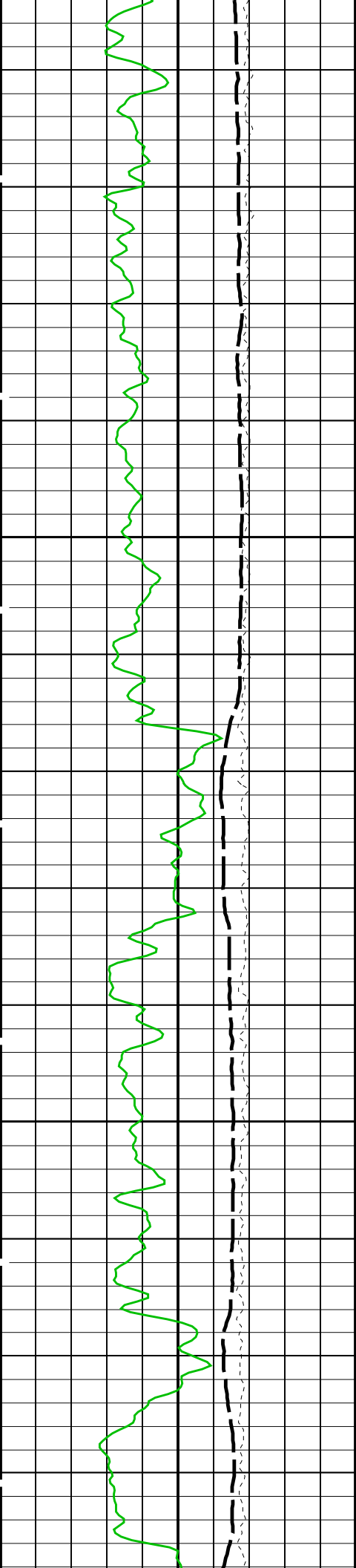
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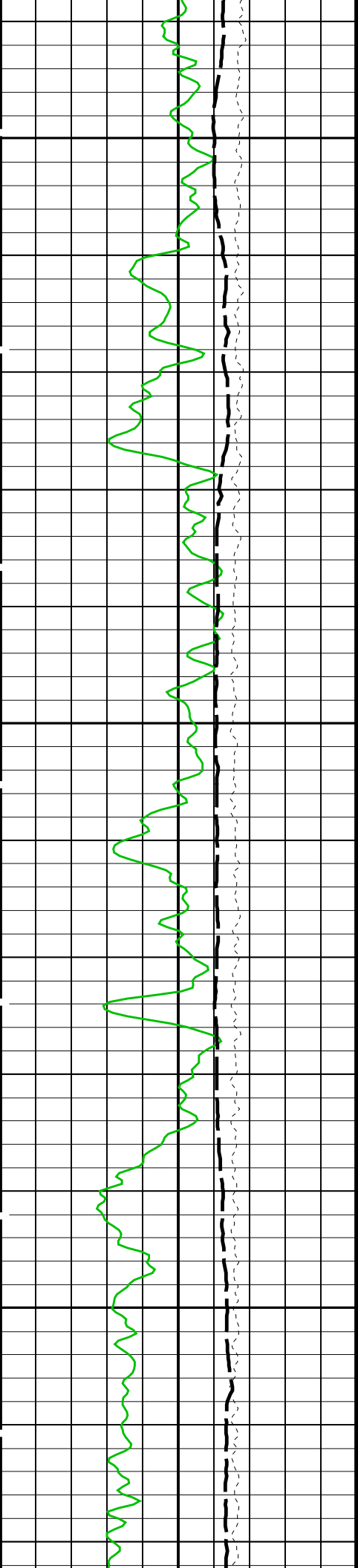
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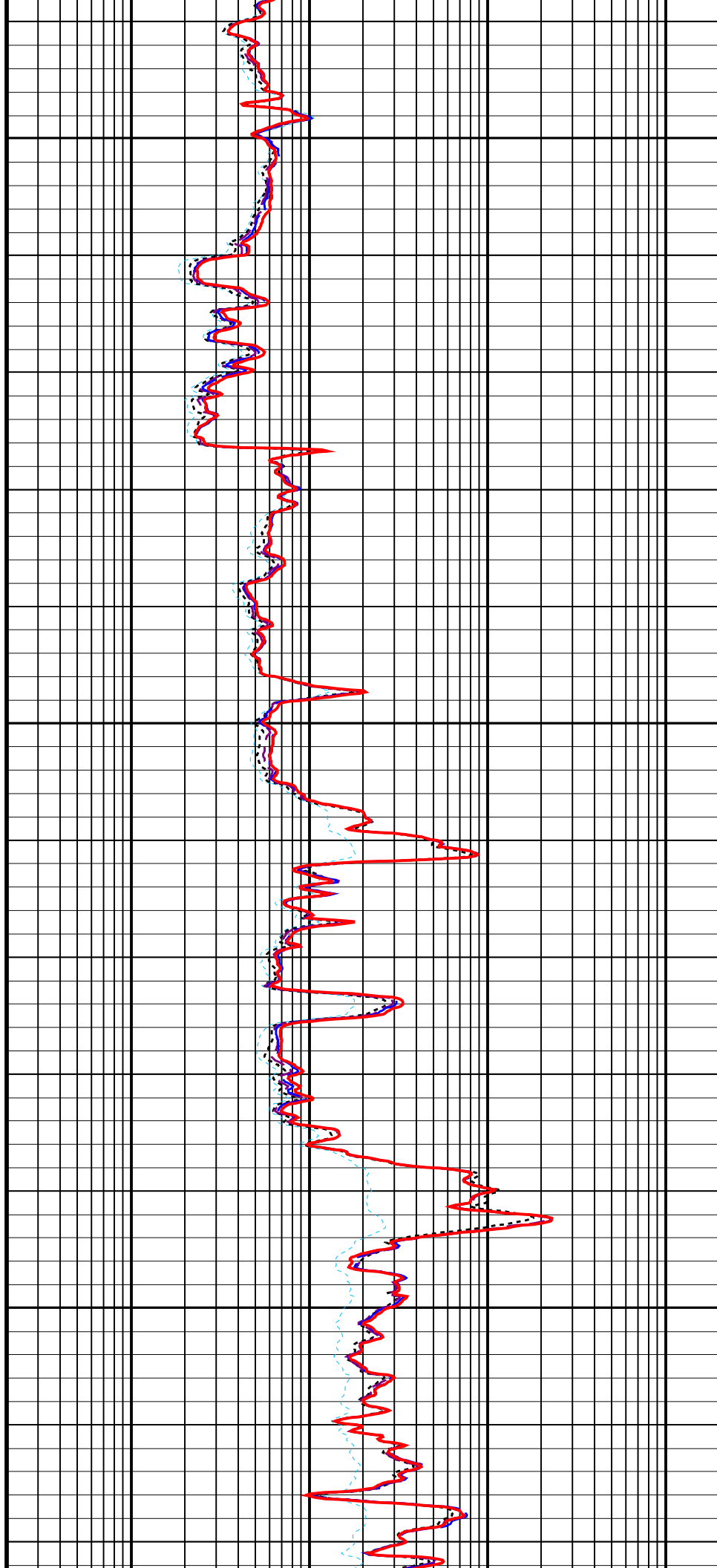


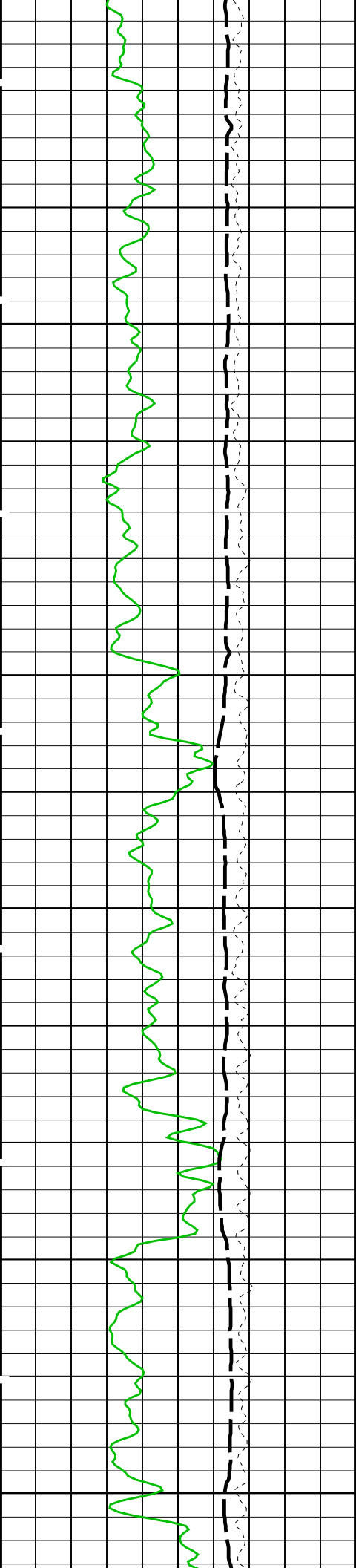


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1075

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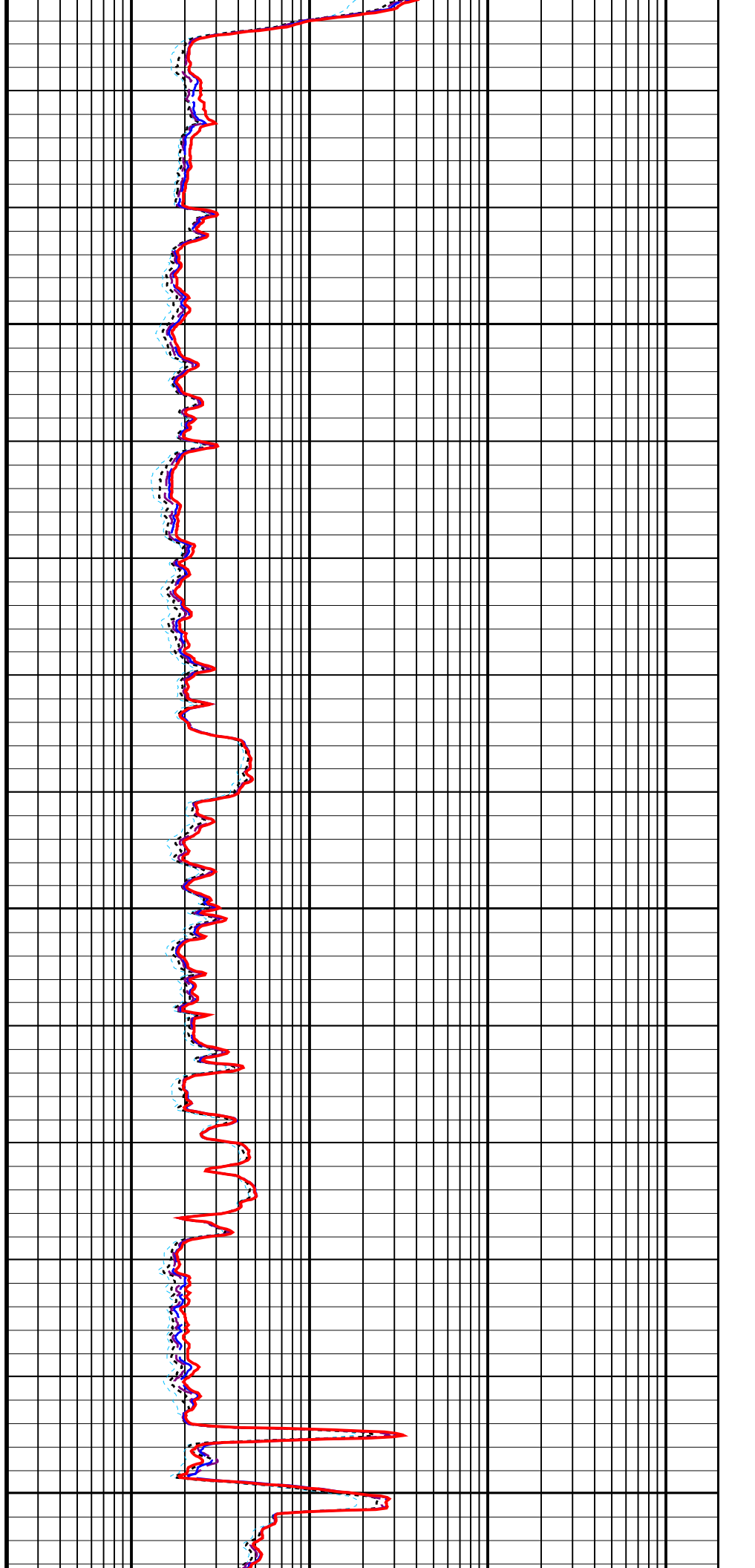


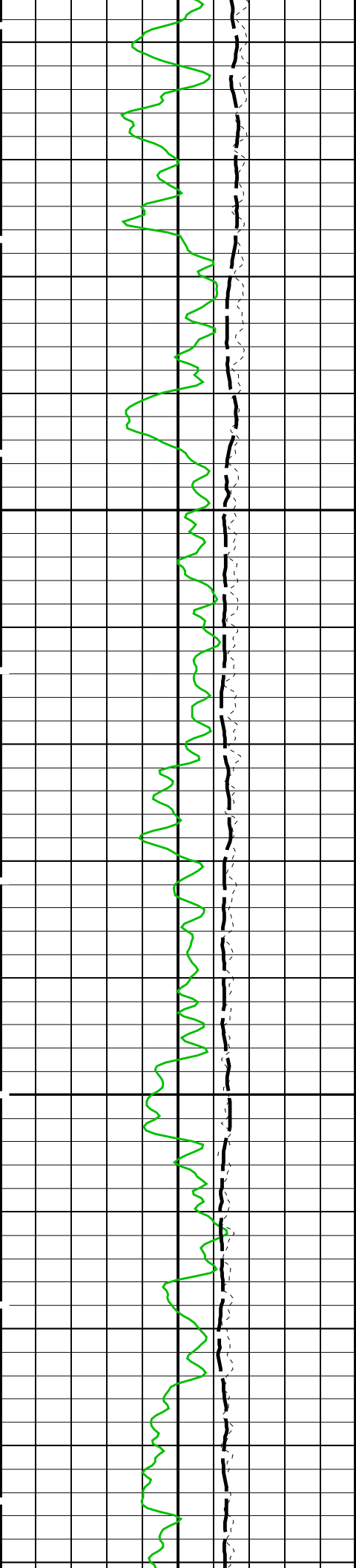


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1150

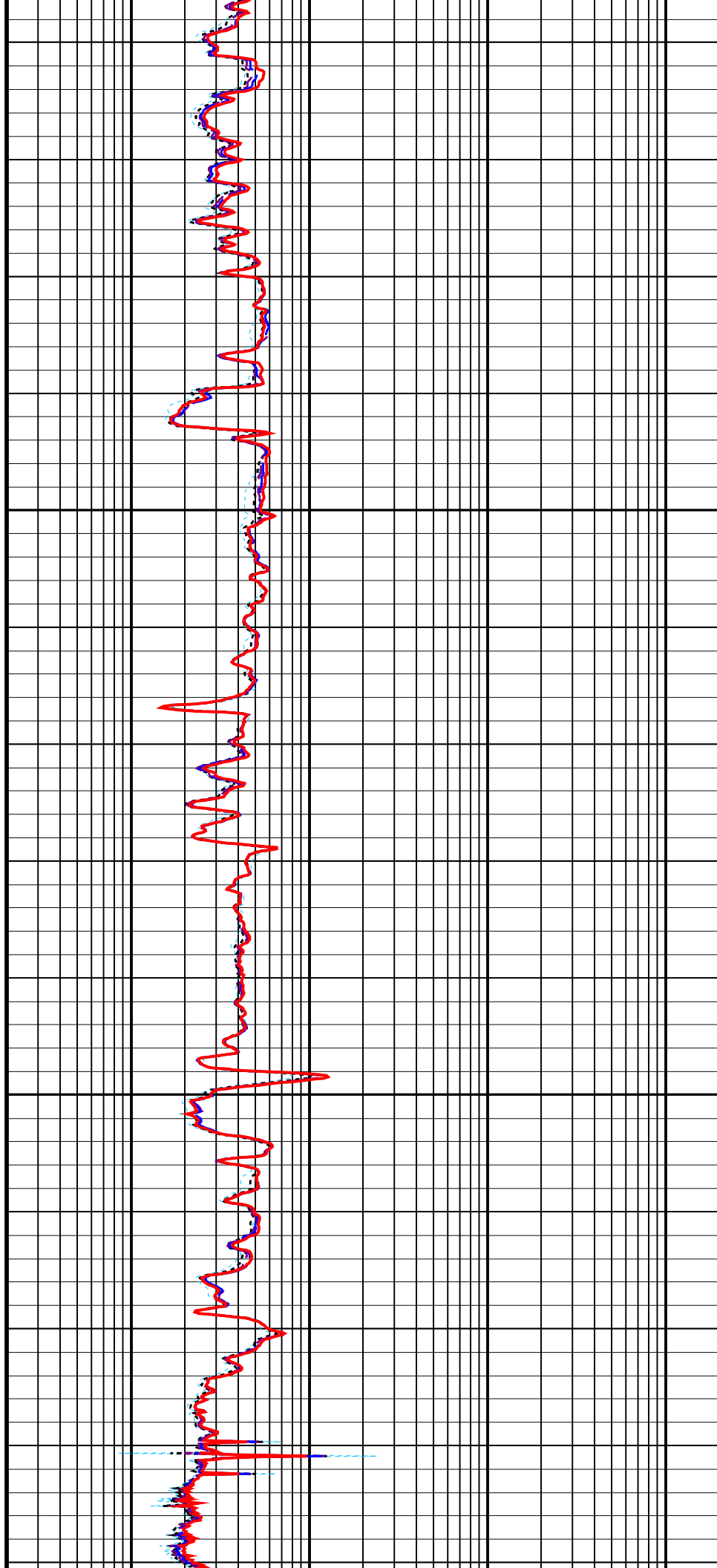
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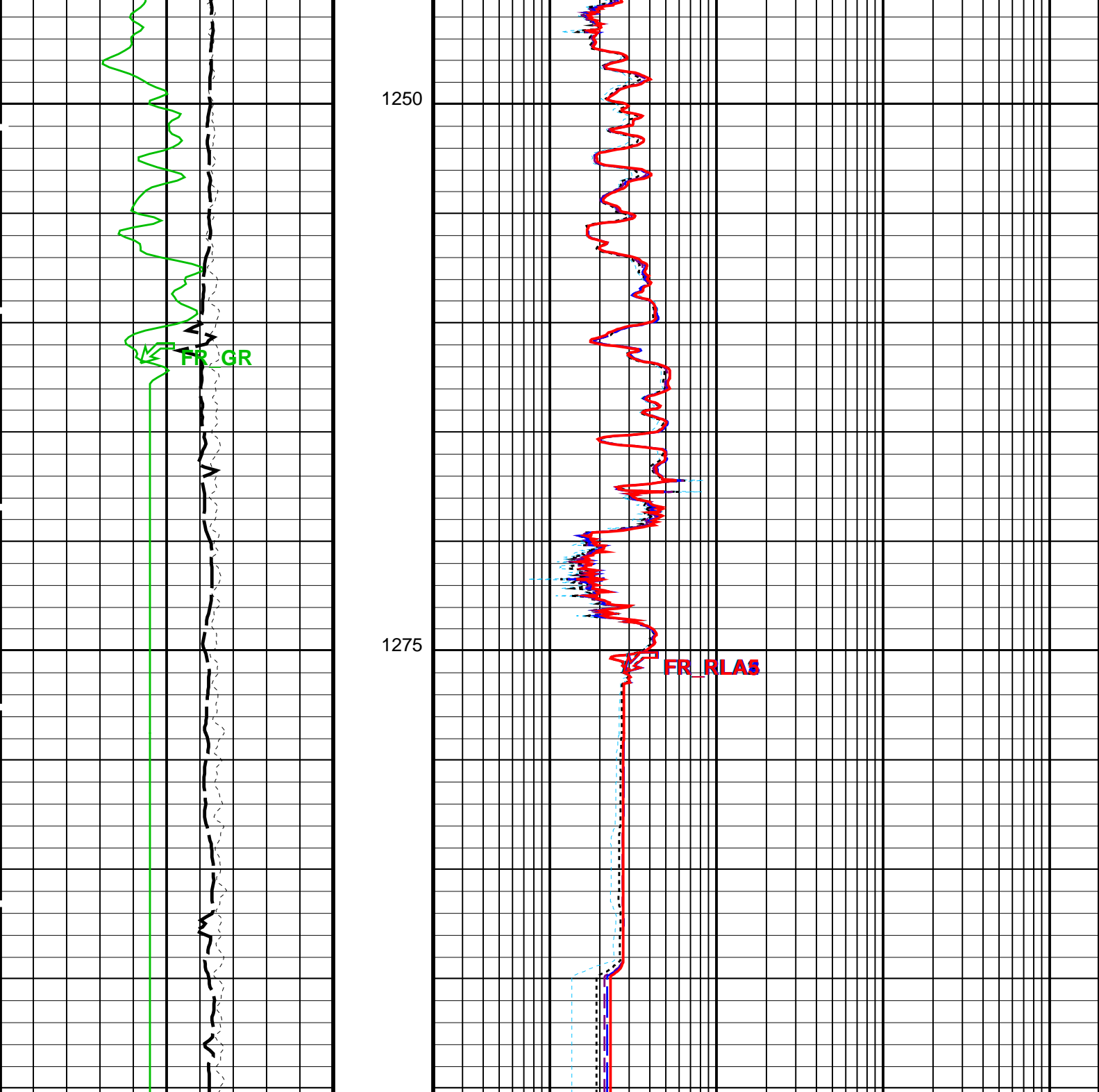




1200

1225





MAIN PASS - HRLA

Gamma Ray (GR_EDTC) (GAPI)		HRLT Resistivity 1 (RLA1) (OHMM)	
0	150	0.2	2000
SP (SP) (MV)		HRLT Resistivity 2 (RLA2) (OHMM)	
-120	30	0.2	2000
Tension (TENS) 25000 (N)		HRLT Resistivity 3 (RLA3) (OHMM)	
	0	0.2	2000
		HRLT Resistivity 4 (RLA4) (OHMM)	
		0.2	2000
		HRLT Resistivity 5 (RLA5) (OHMM)	
		0.2	2000

Time Mark Every 60 S

PIP SUMMARY

Parameters

DLIS Name	Description	Value
SPNV	ZAIT-BA: 3-D Array Induction Tool – ZAIT-SP Next Value	0 MV
TRIRT	3D Rotation Selector	NorTH
KFAC_HRLT	HRLT-B: High Resolution Laterolog Array – EHRLT K Factor Option	SONDE
LBFR	STI: Stuck Tool Indicator	TDL
STKT	Trigger for MAXIS First Reading Label	1.524 M
TDD	STI Stuck Threshold	1310.00 M
TDL	Total Depth – Driller	1296.00 M
	Total Depth – Logger	
	System and Miscellaneous	
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE

Format: HRLT-S5-CAN Vertical Scale: 1:240 Graphics File Created: 06-Mar-2007 14:16

OP System Version: 14C0-302

MCM

ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M
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Output DLIS Files

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Schlumberger

HIRES PASS: HIGH RESOLUTION
LATEROLOG ARRAY

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M
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Output DLIS Files

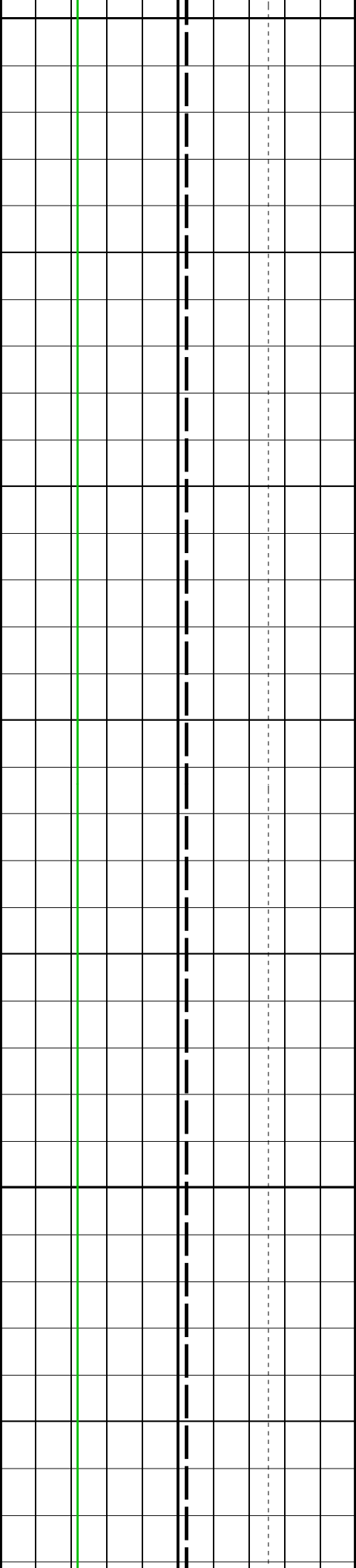
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OP System Version: 14C0-302

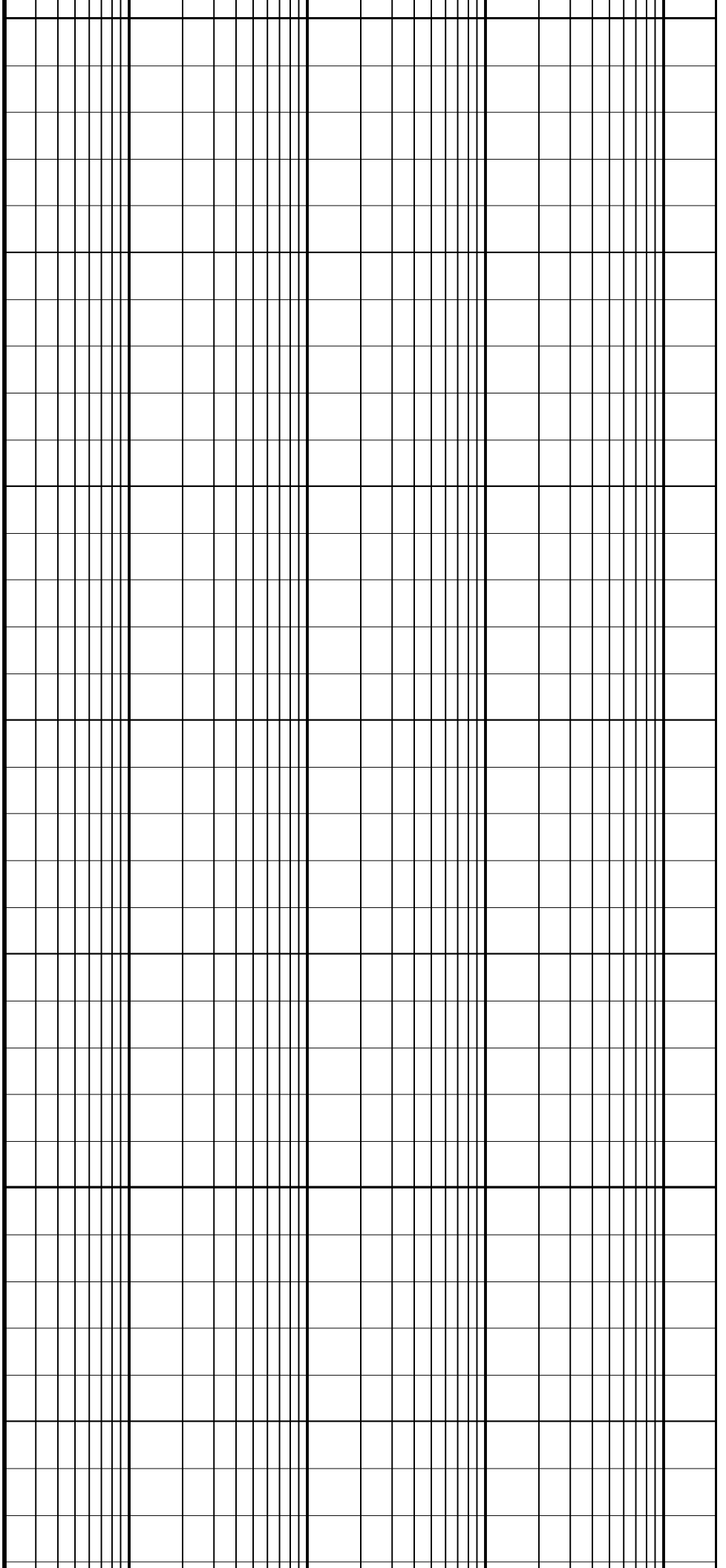
MCM

ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

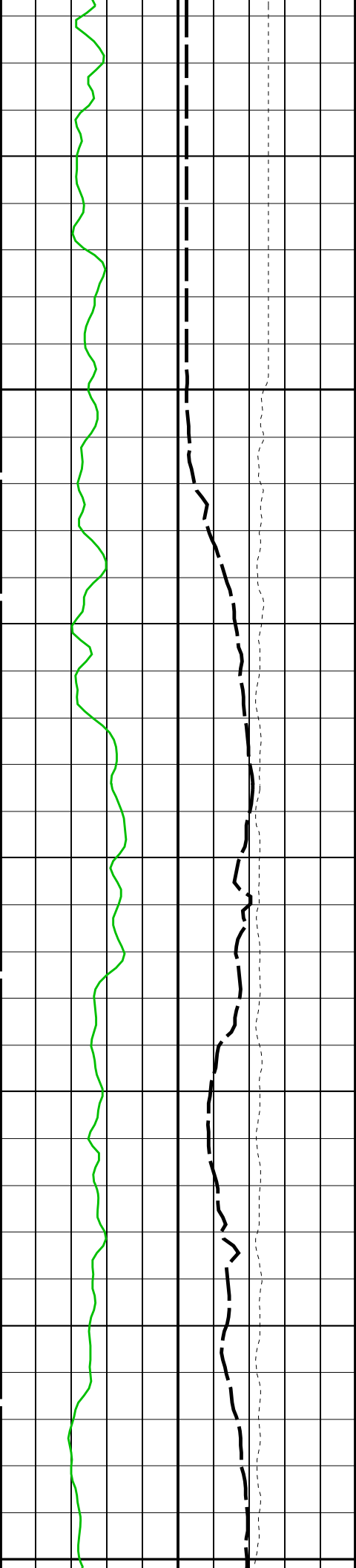
PIP SUMMARY



550

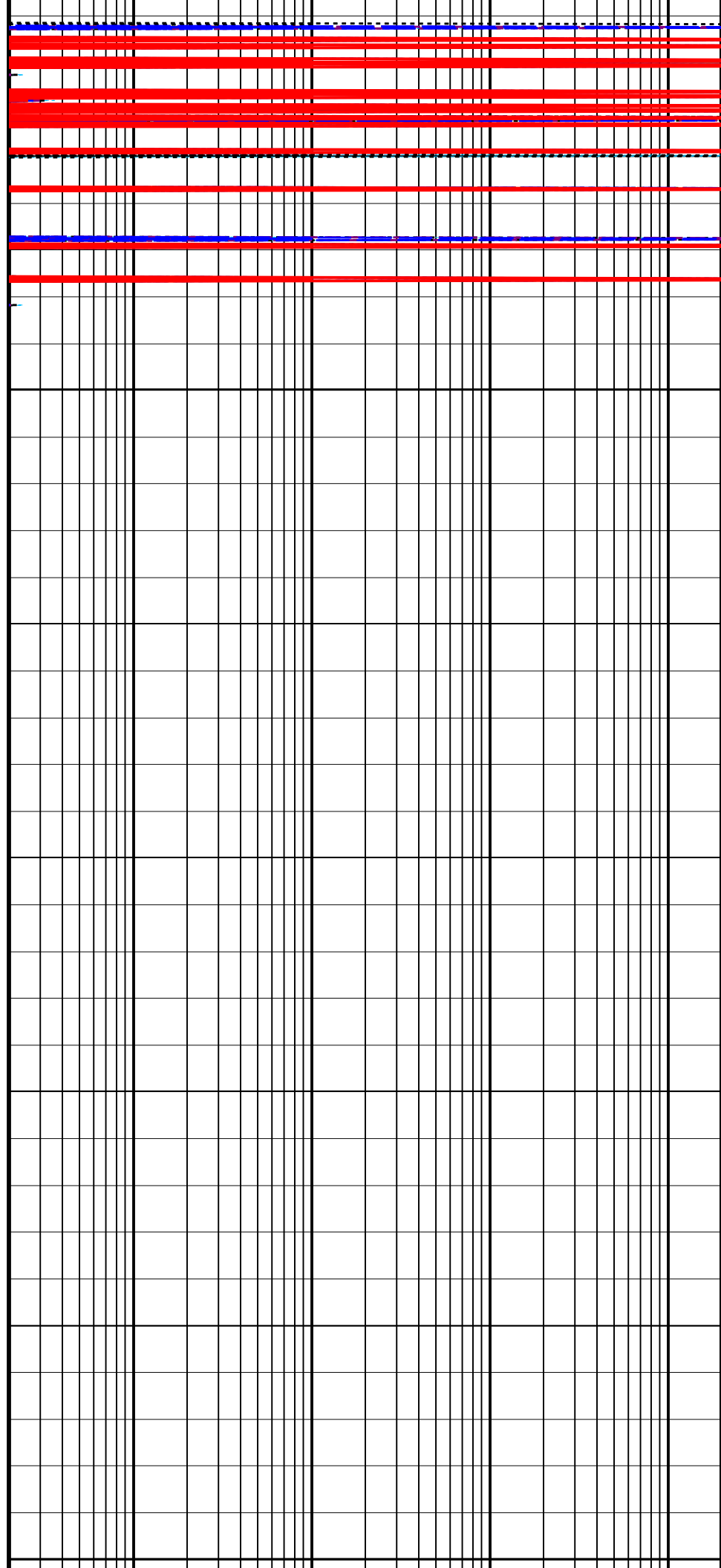


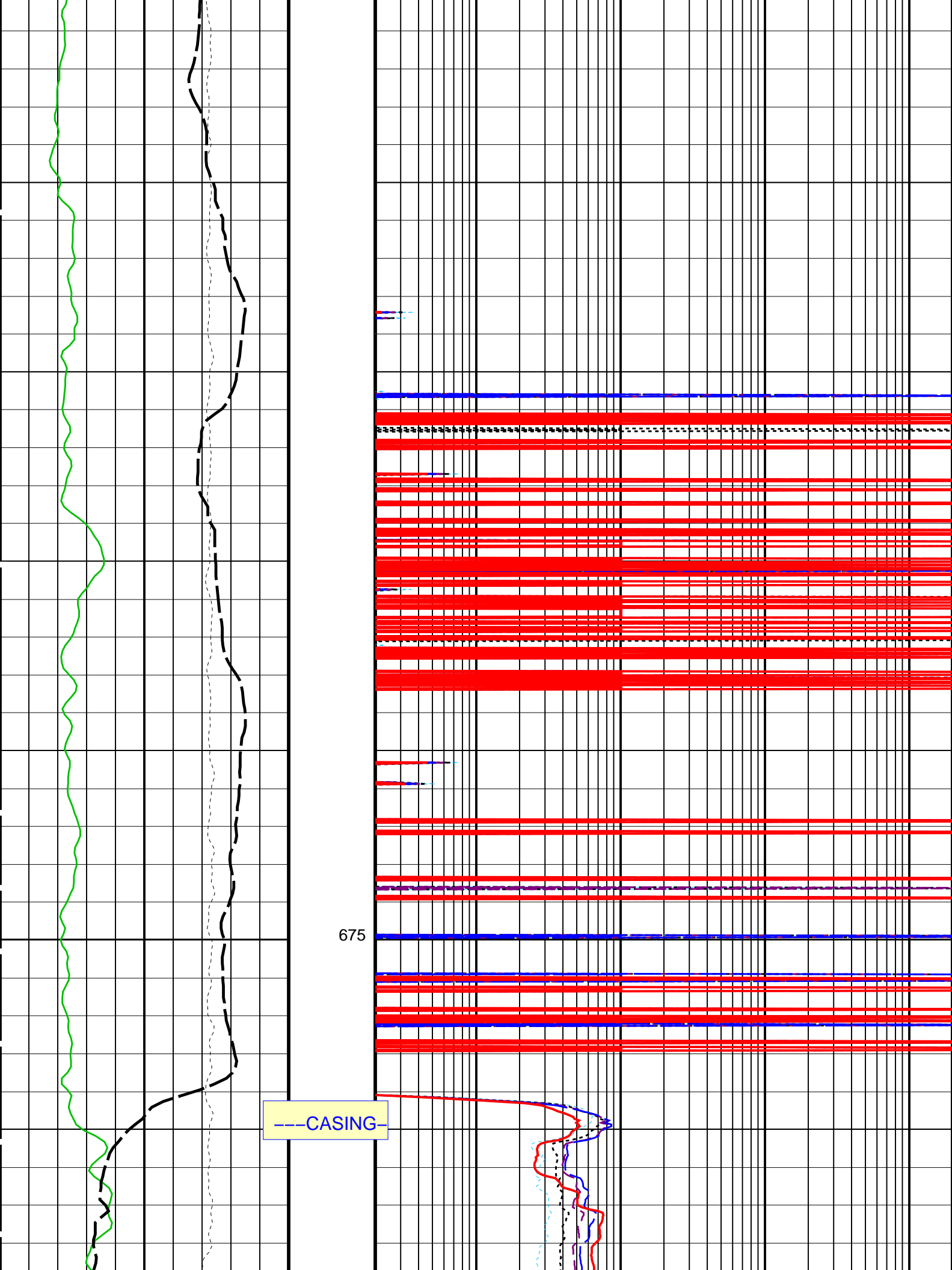
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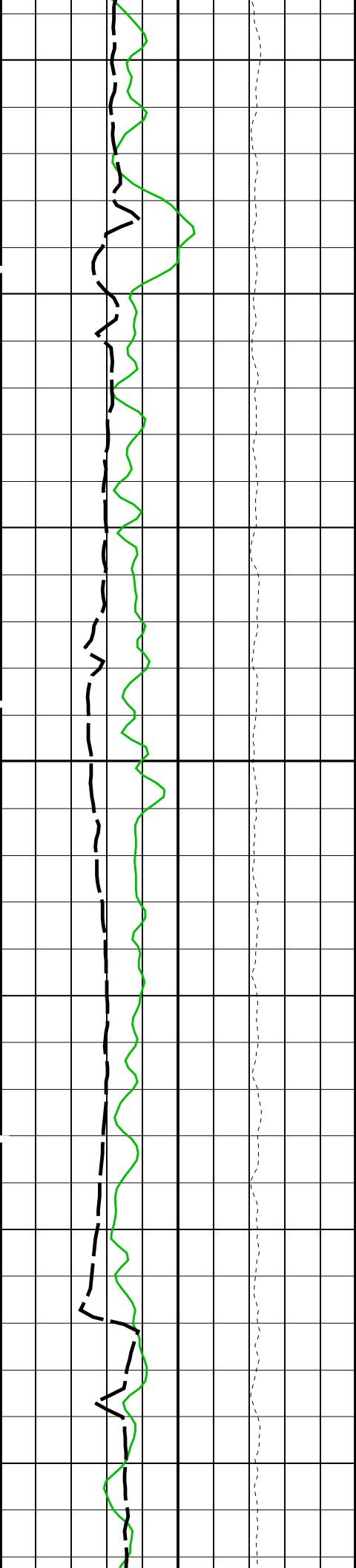


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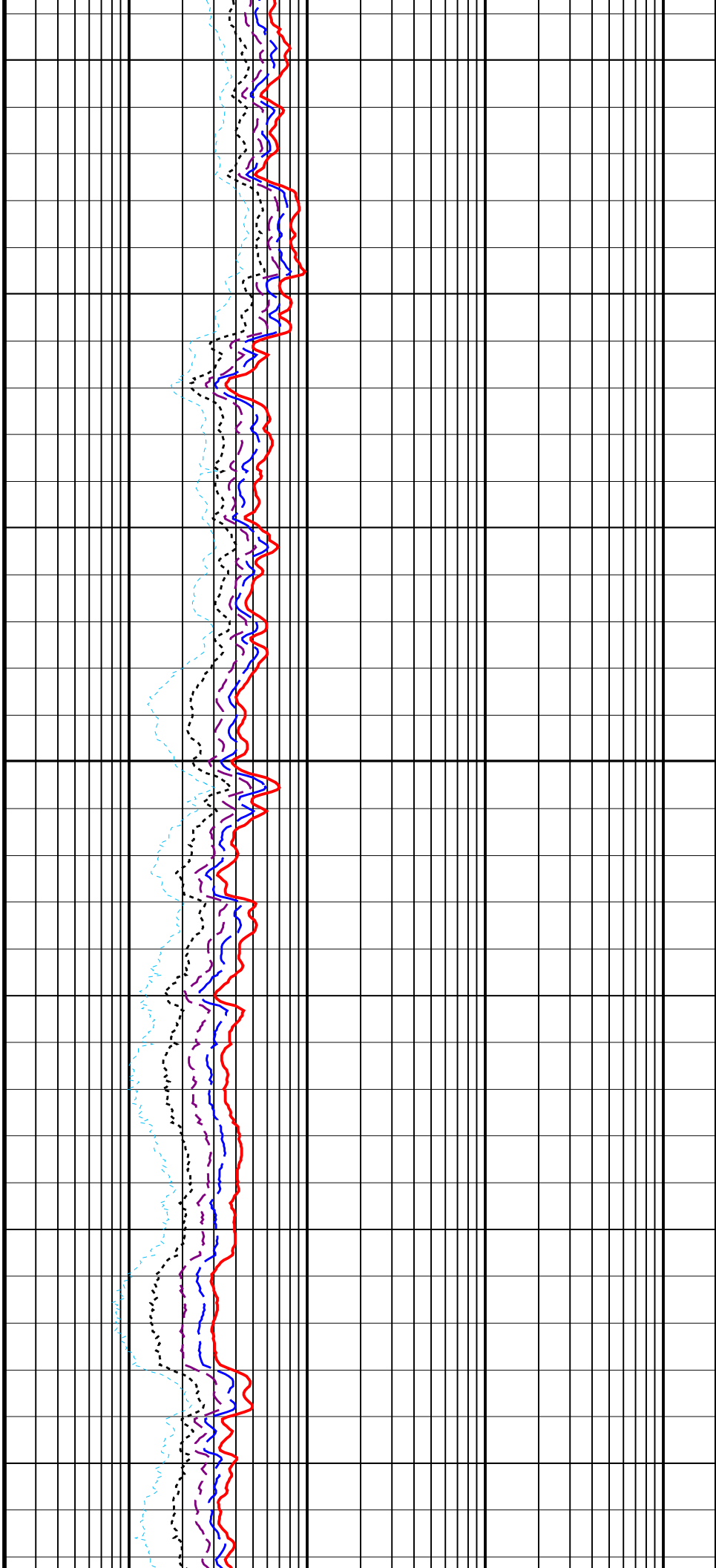
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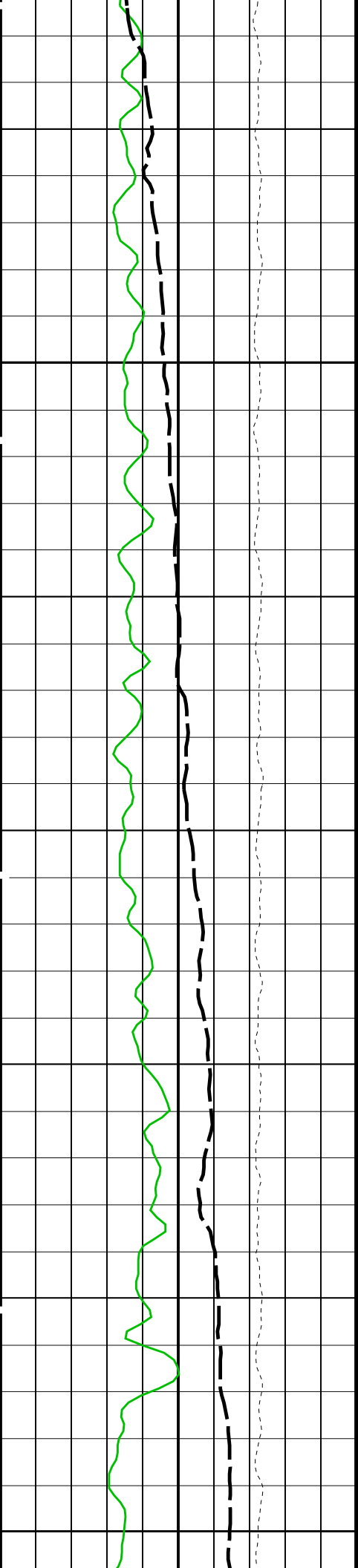






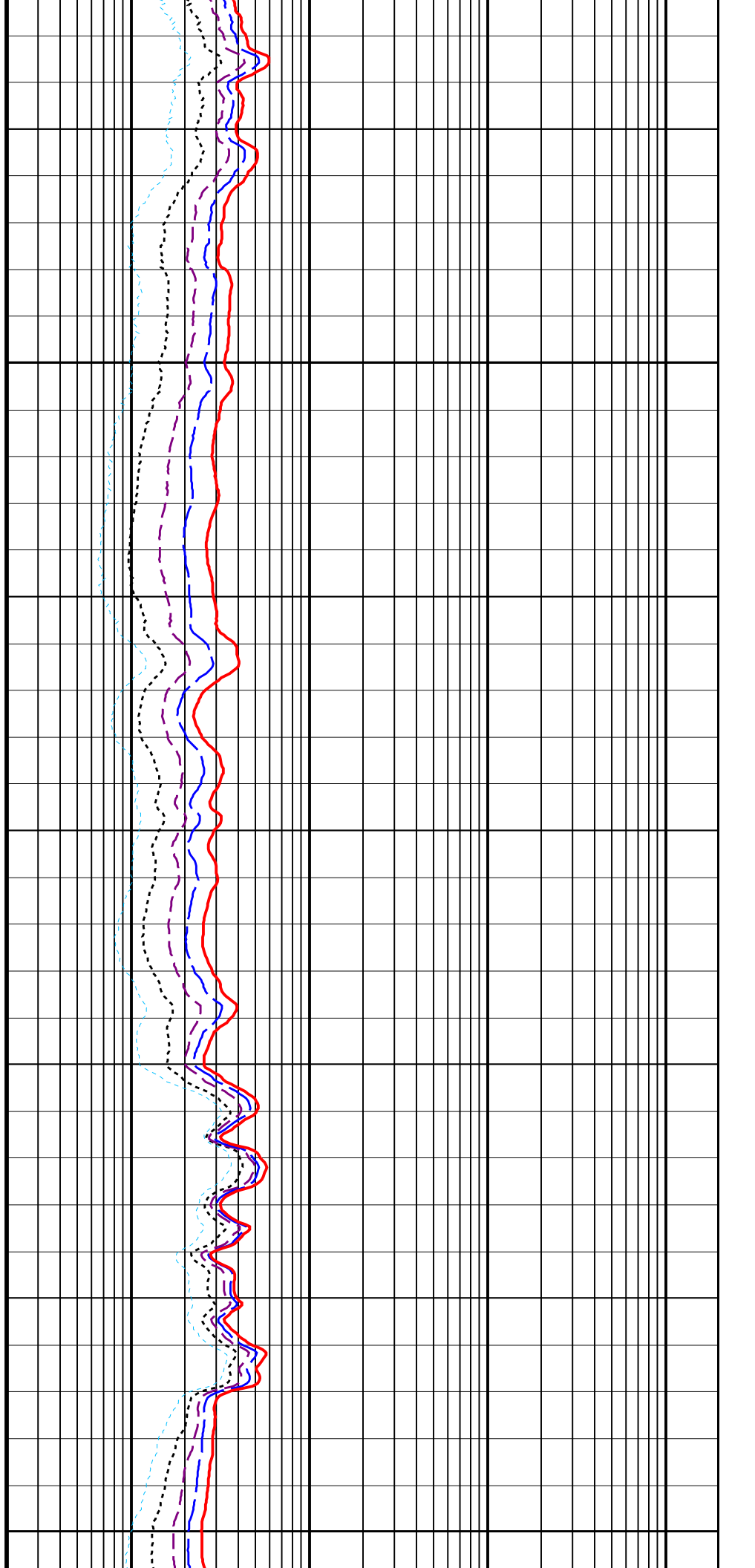
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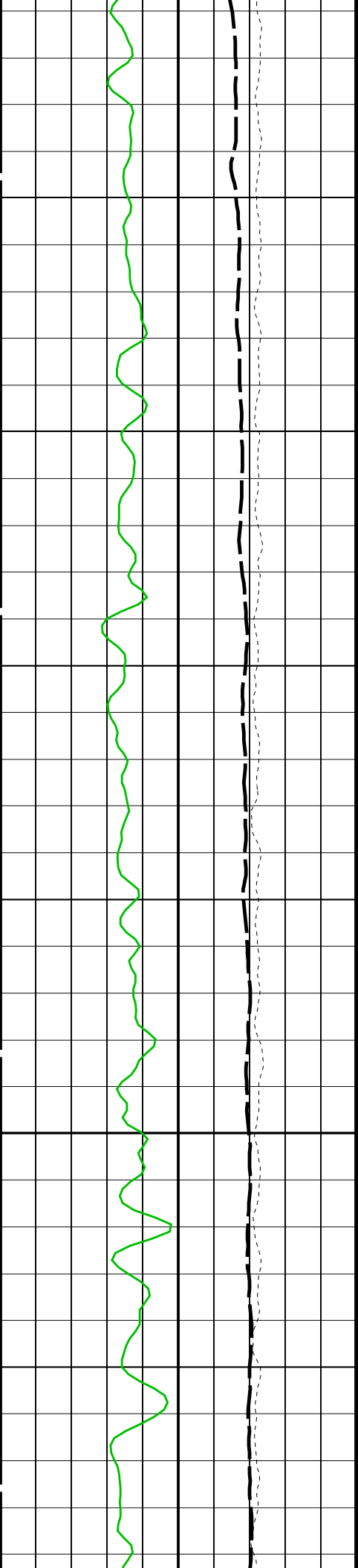




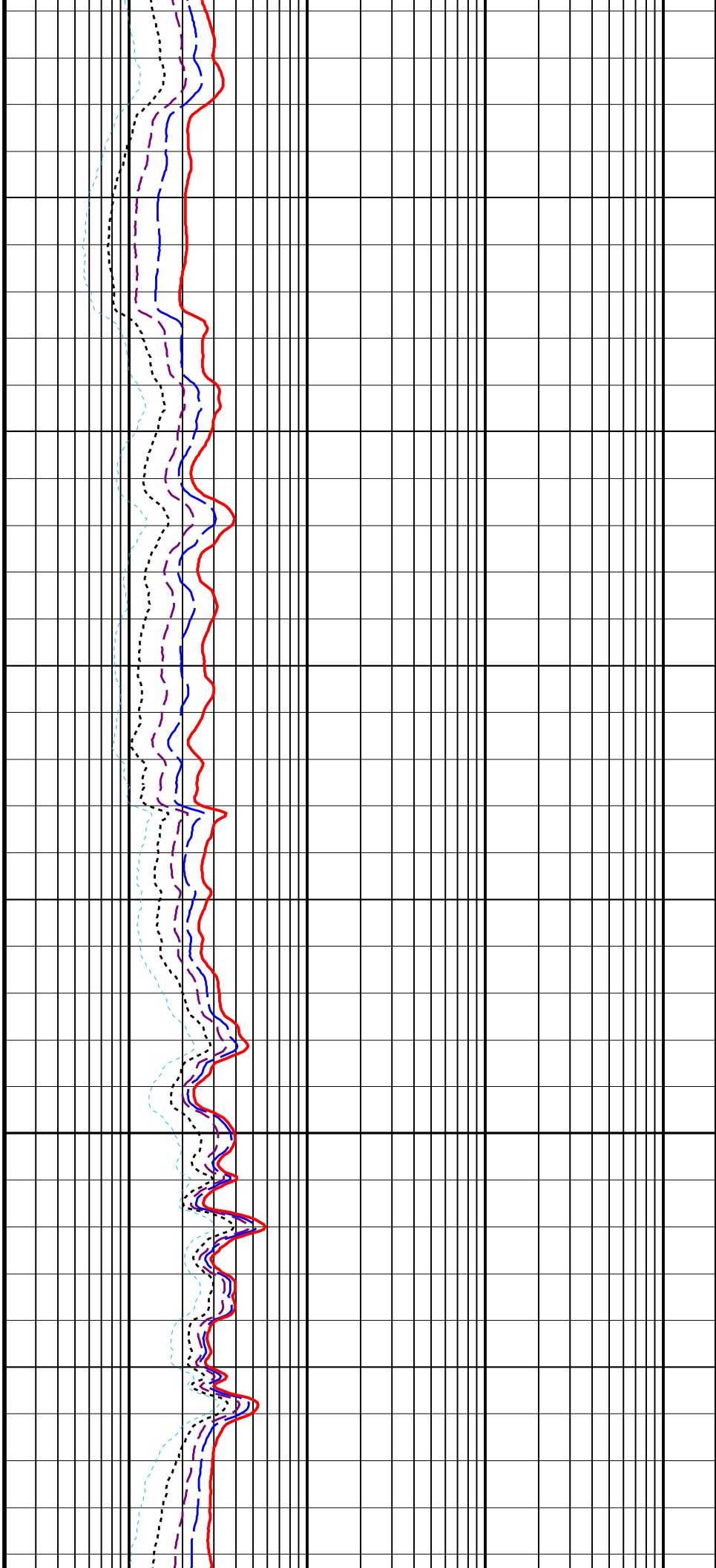
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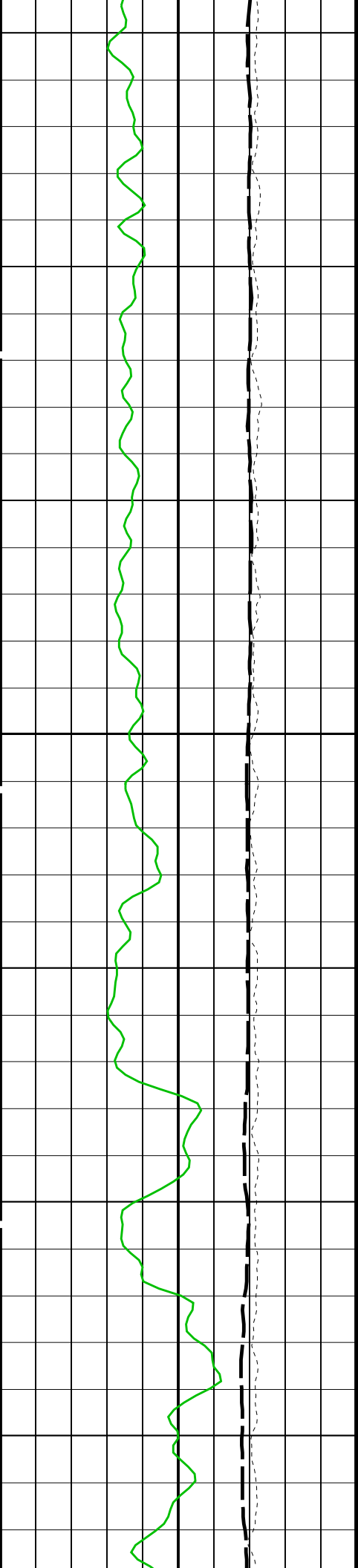
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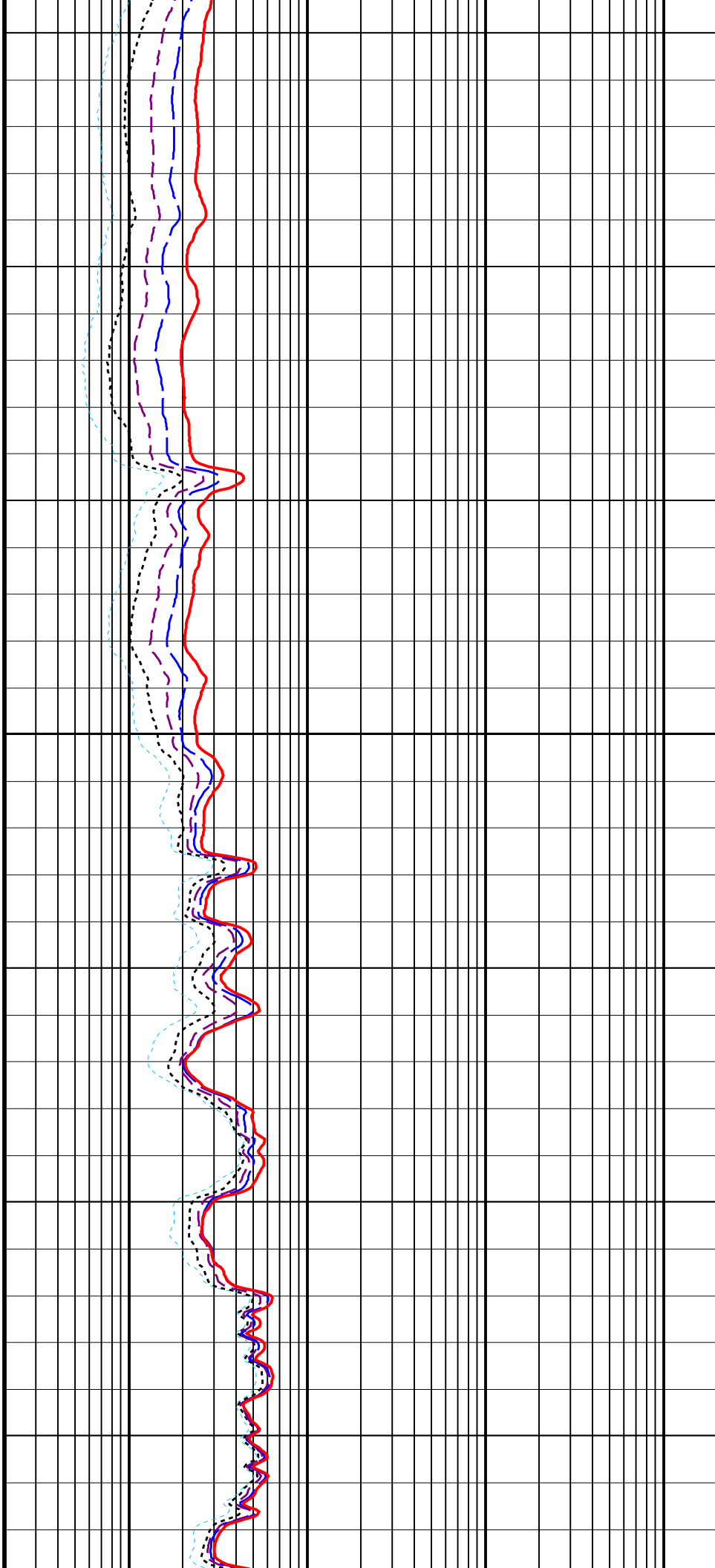


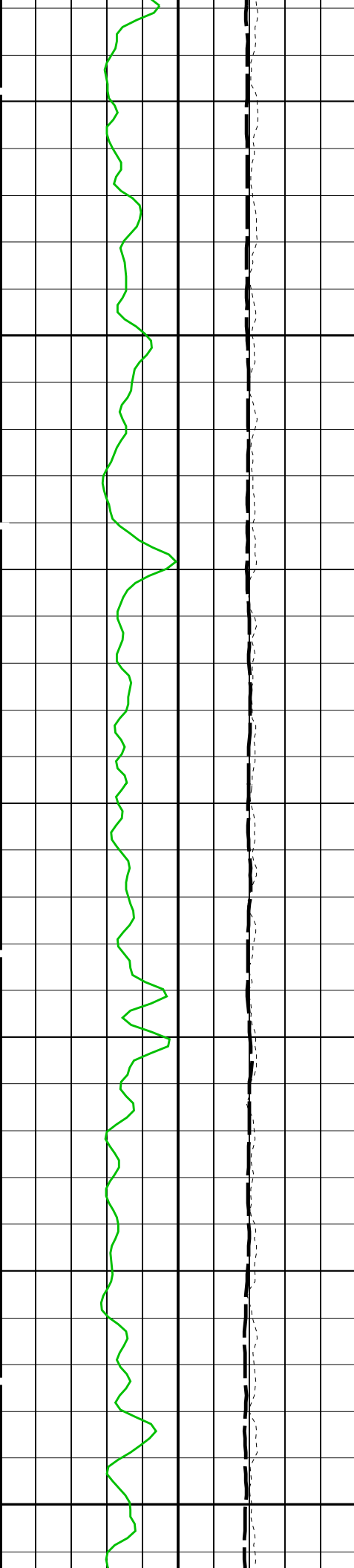
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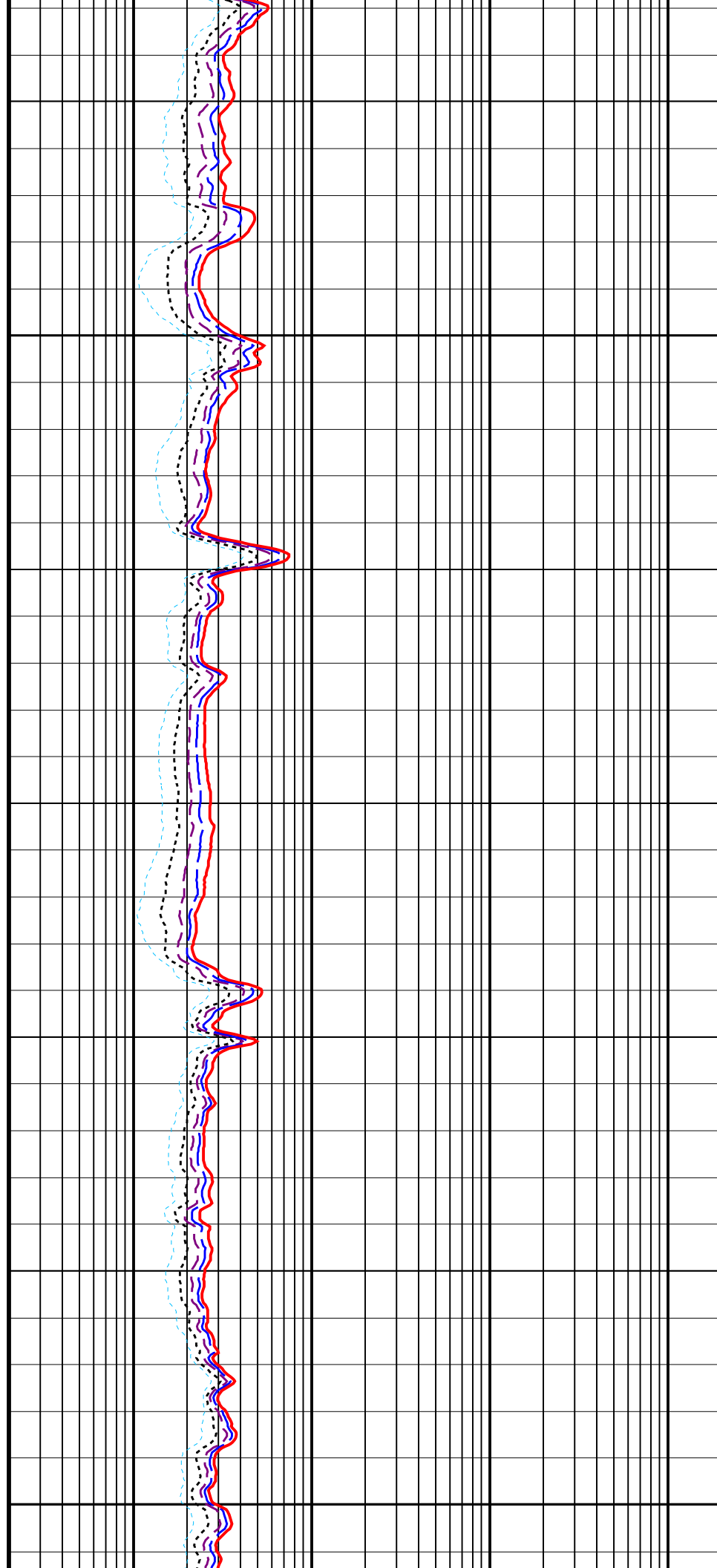
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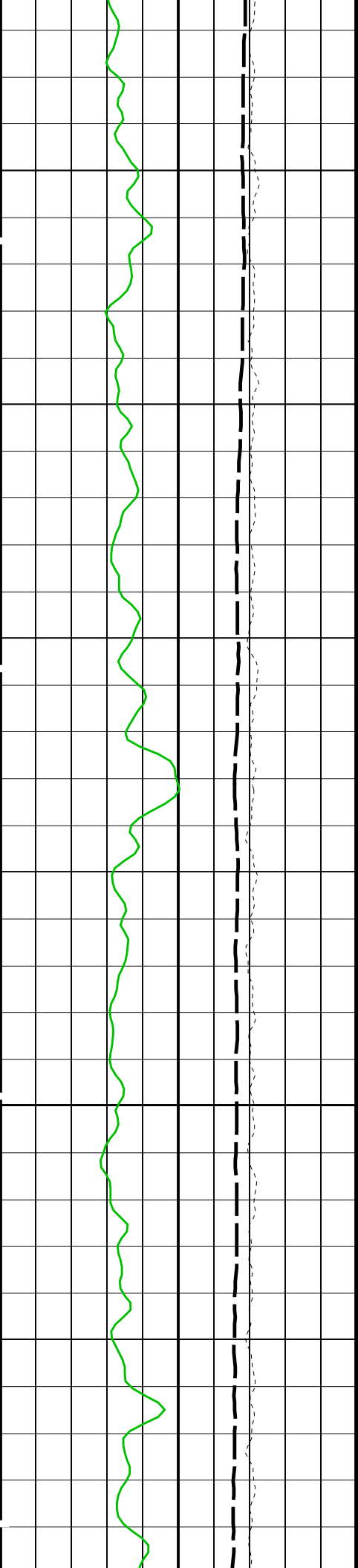




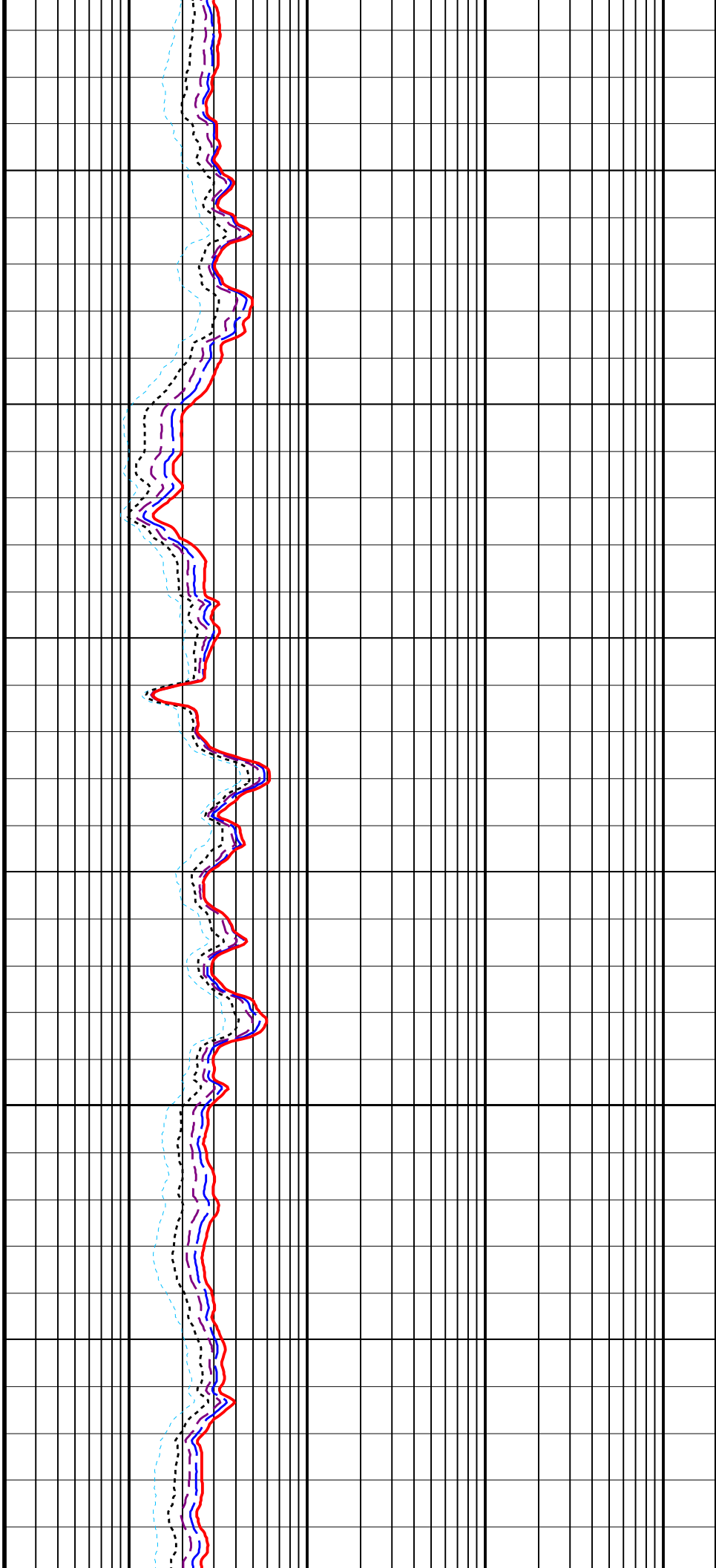
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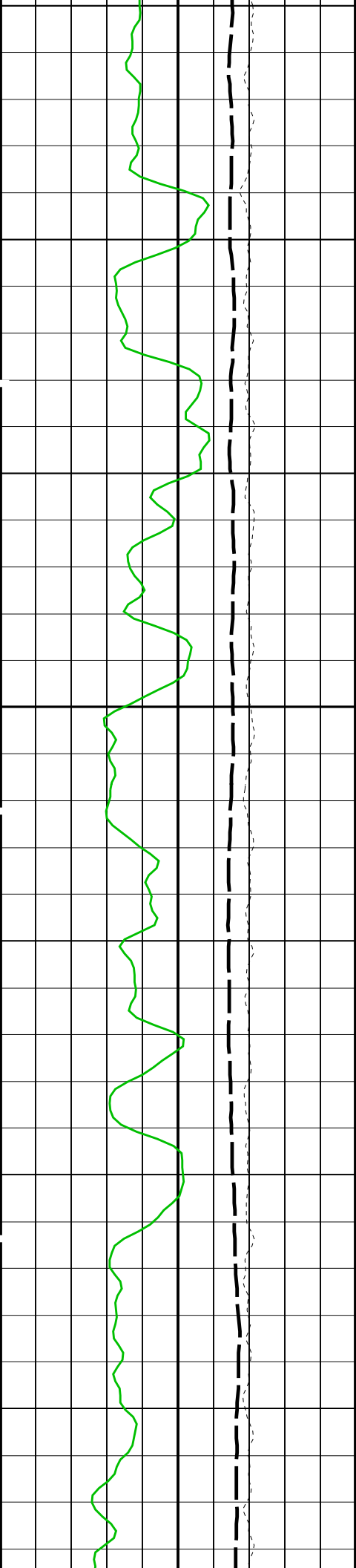
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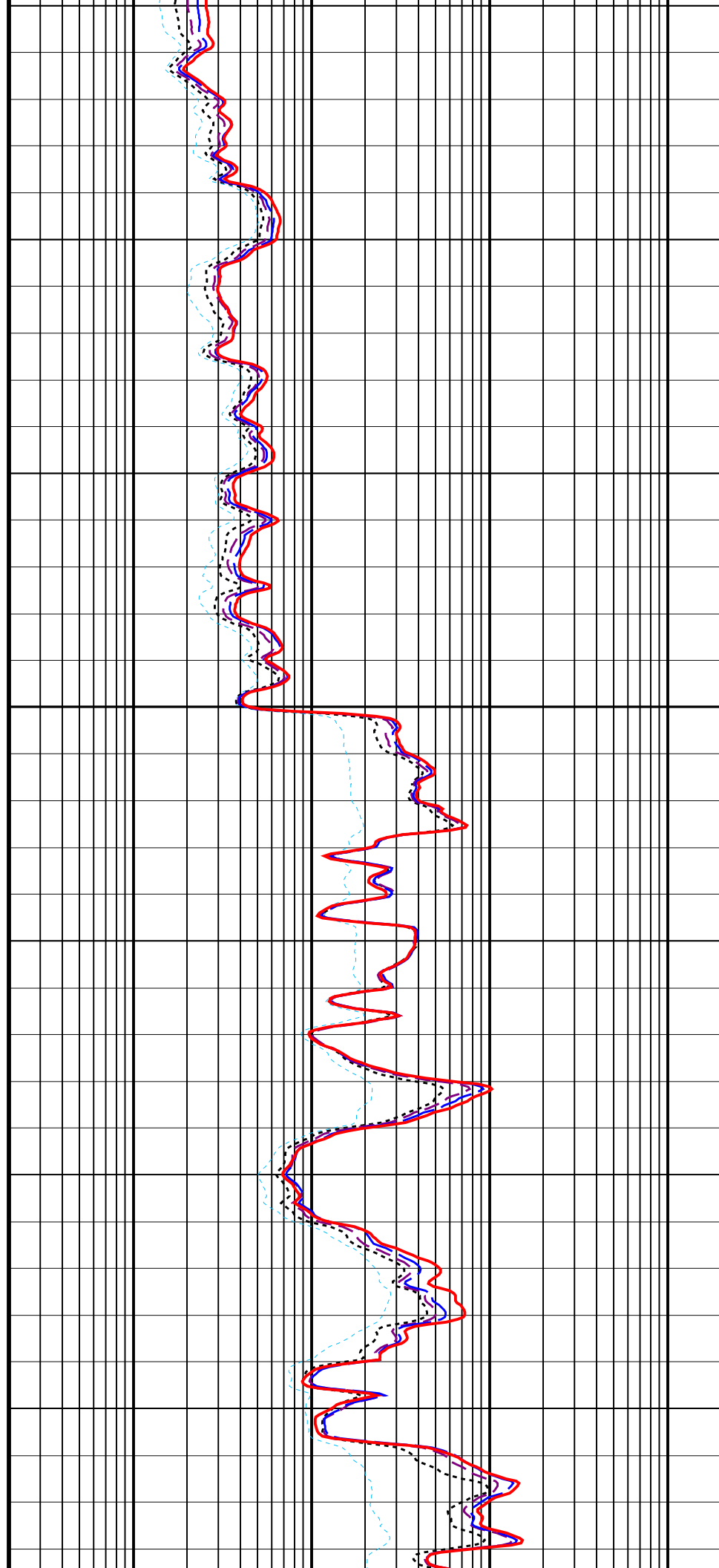


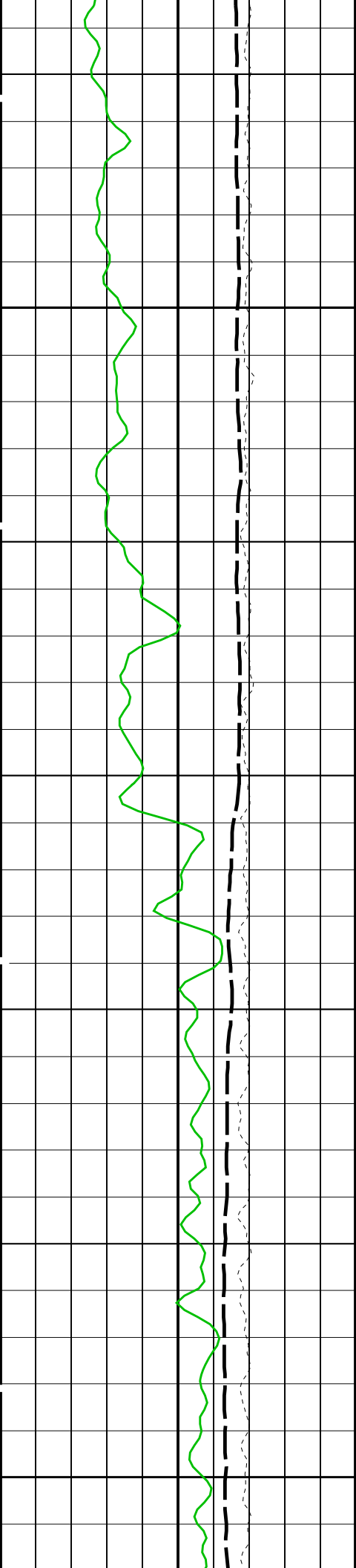
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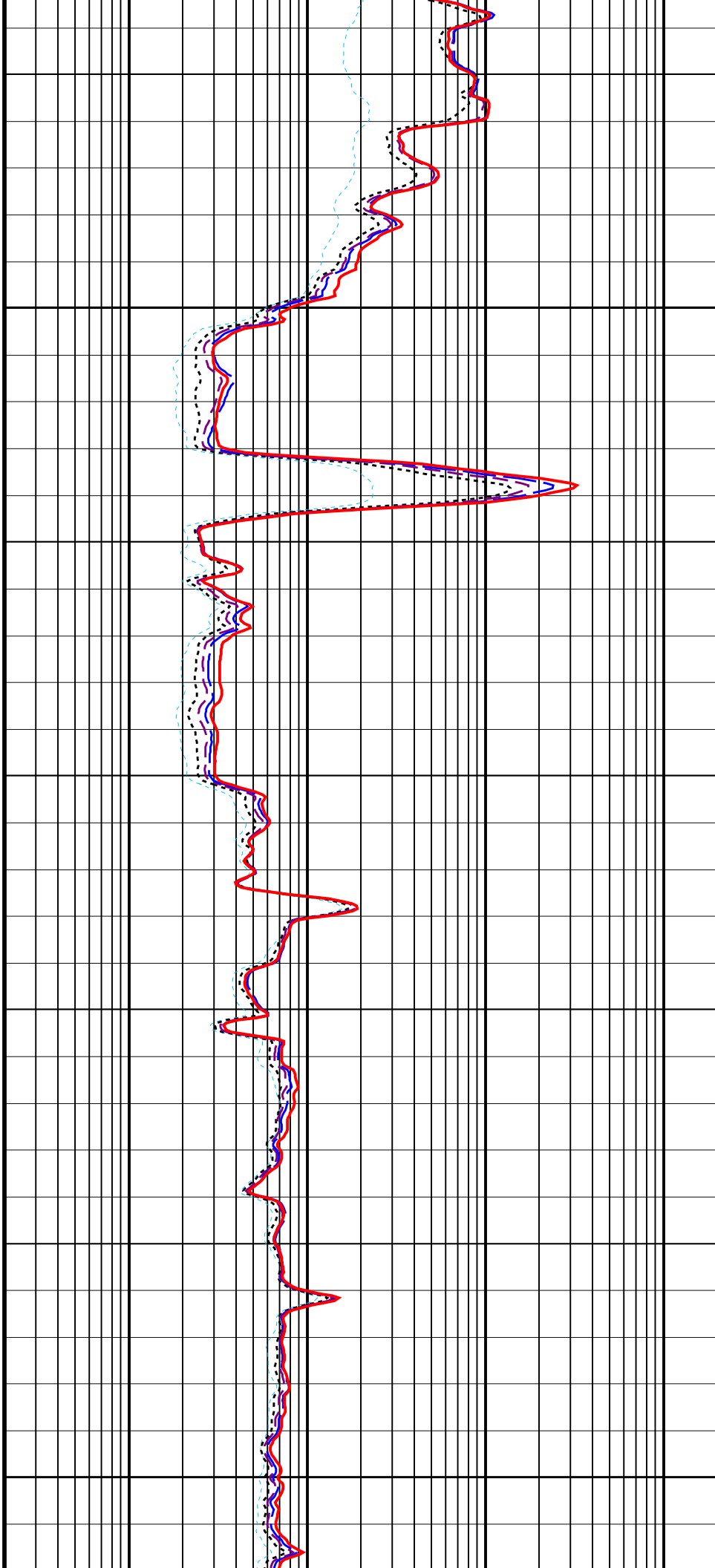
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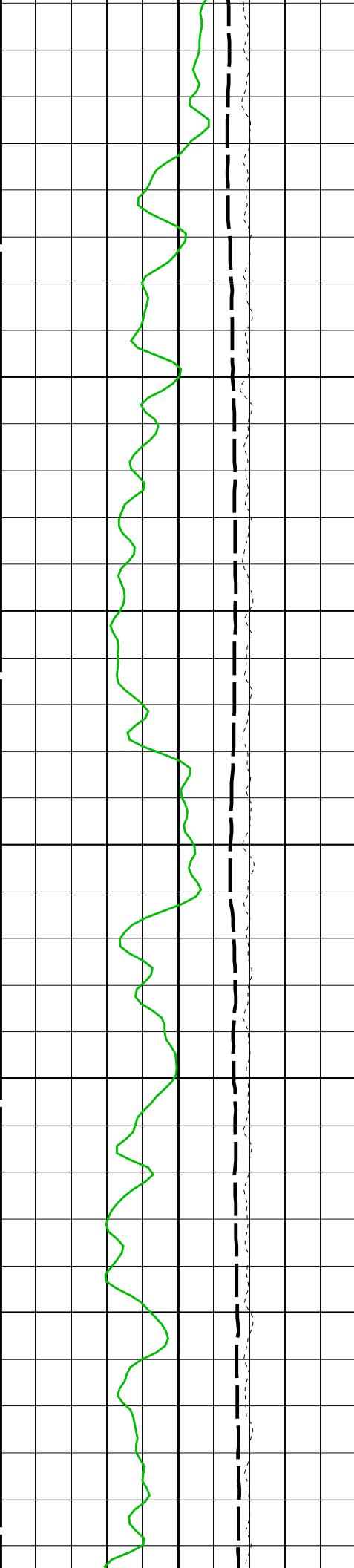




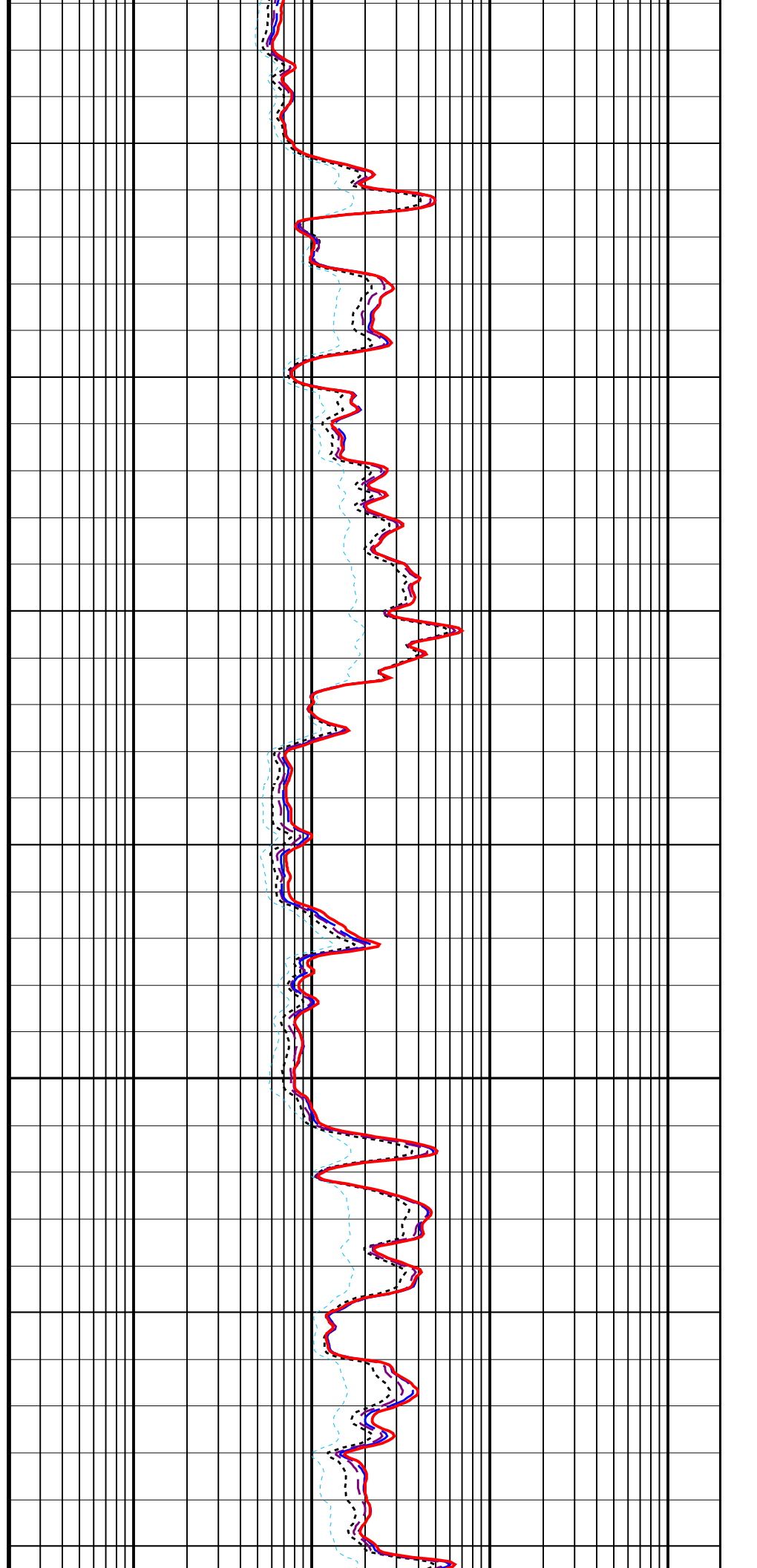
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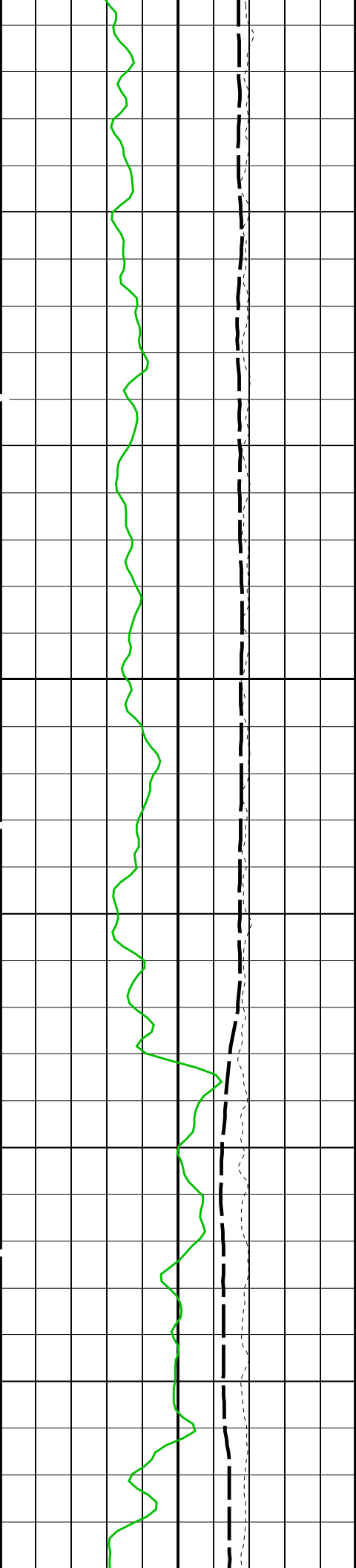
950



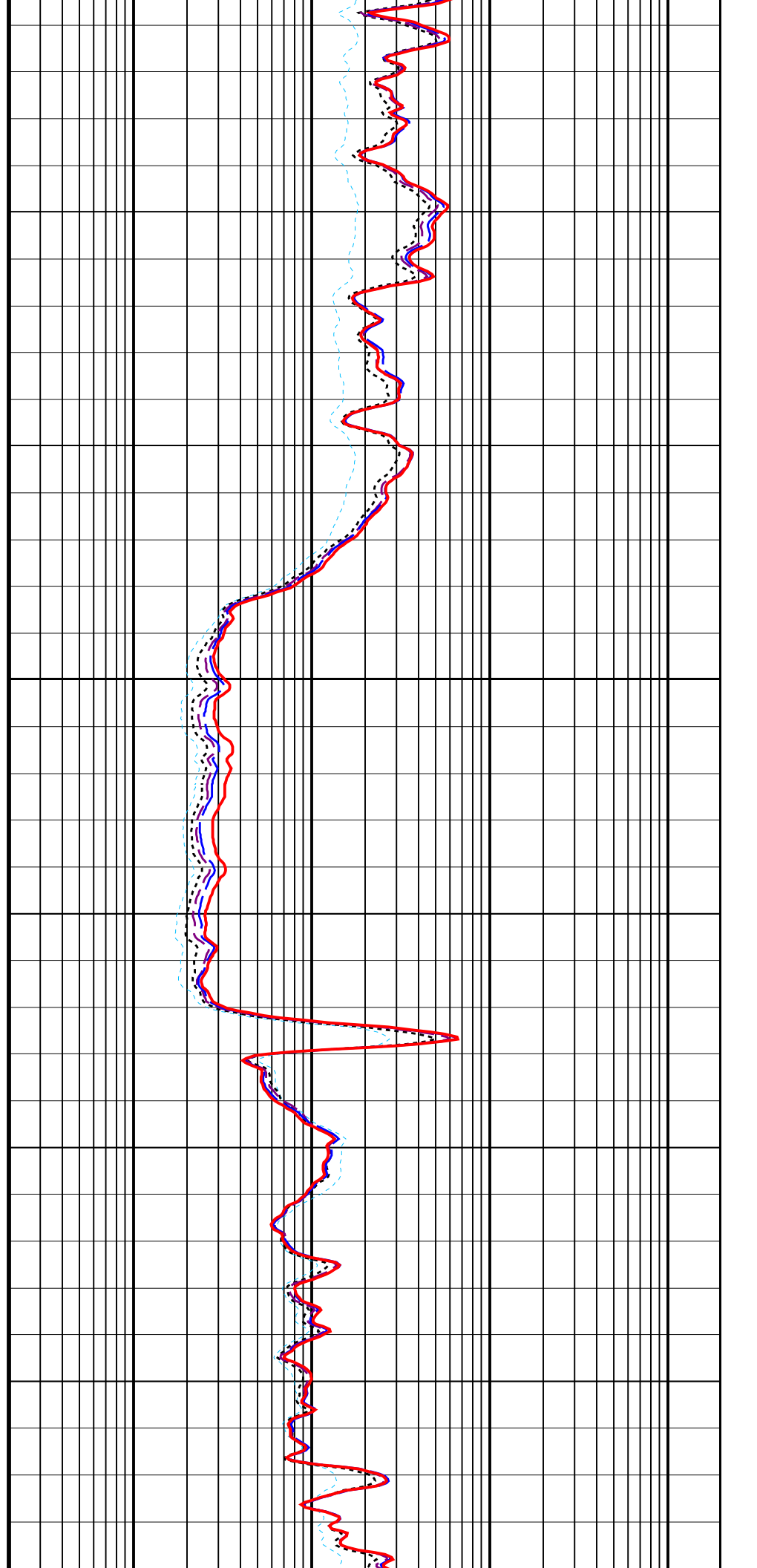


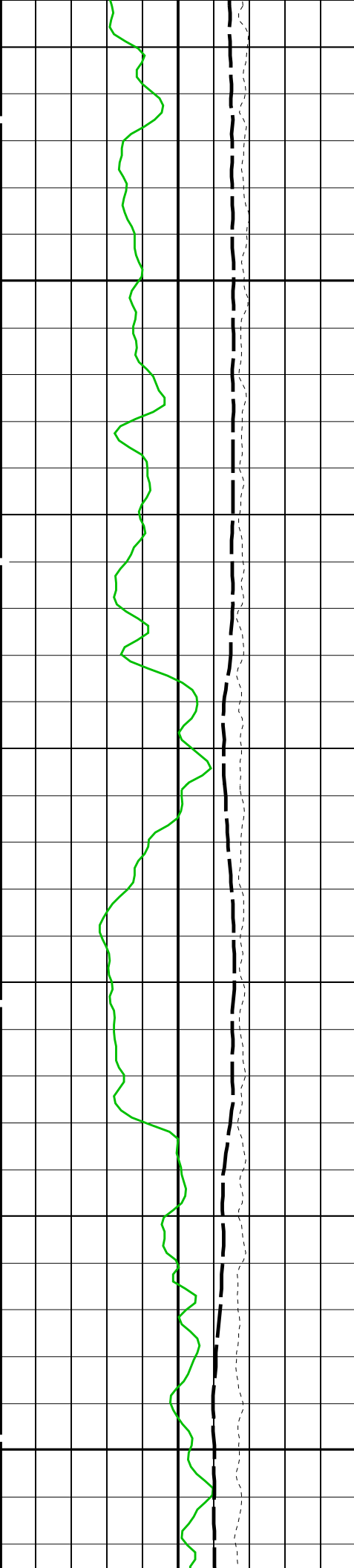
975





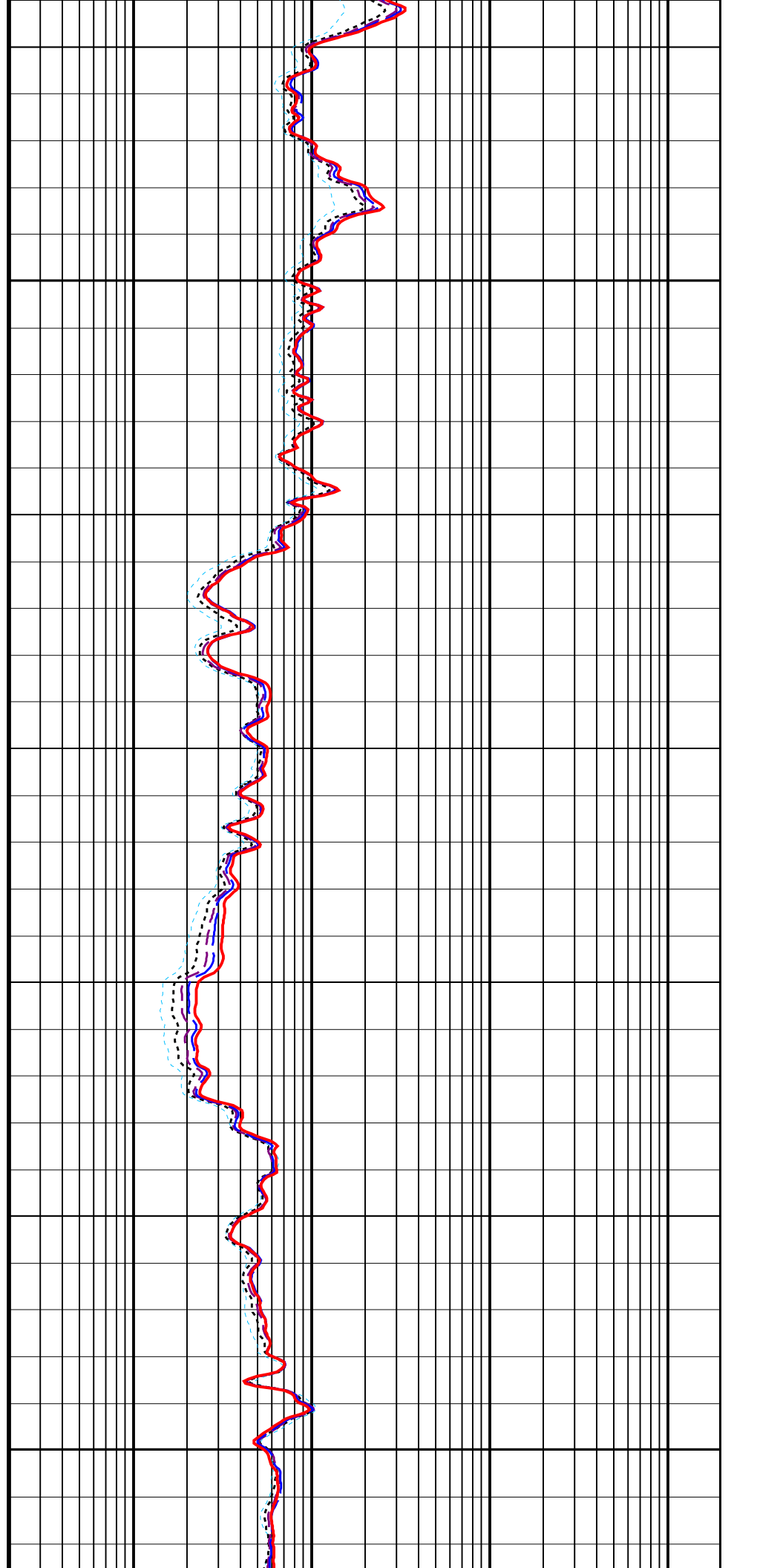
1000

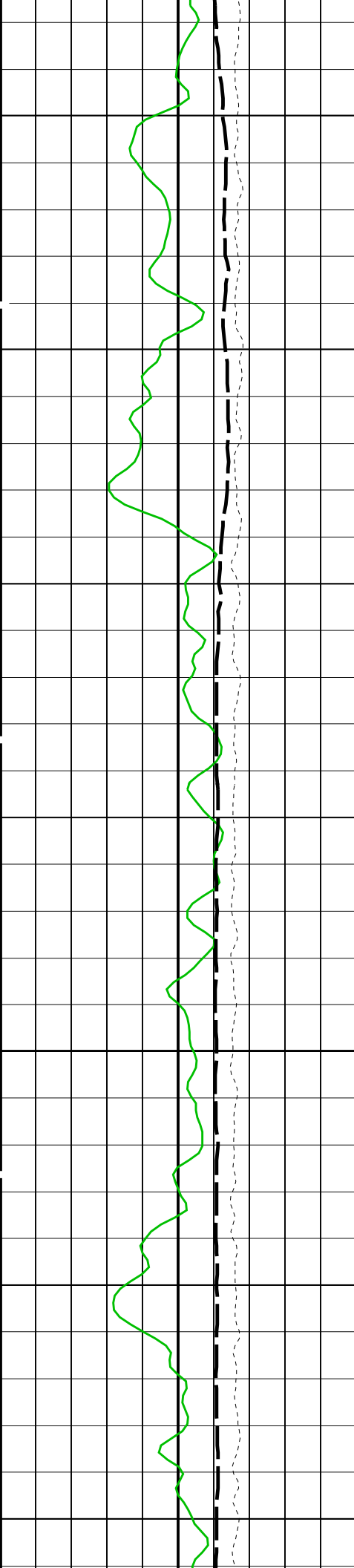




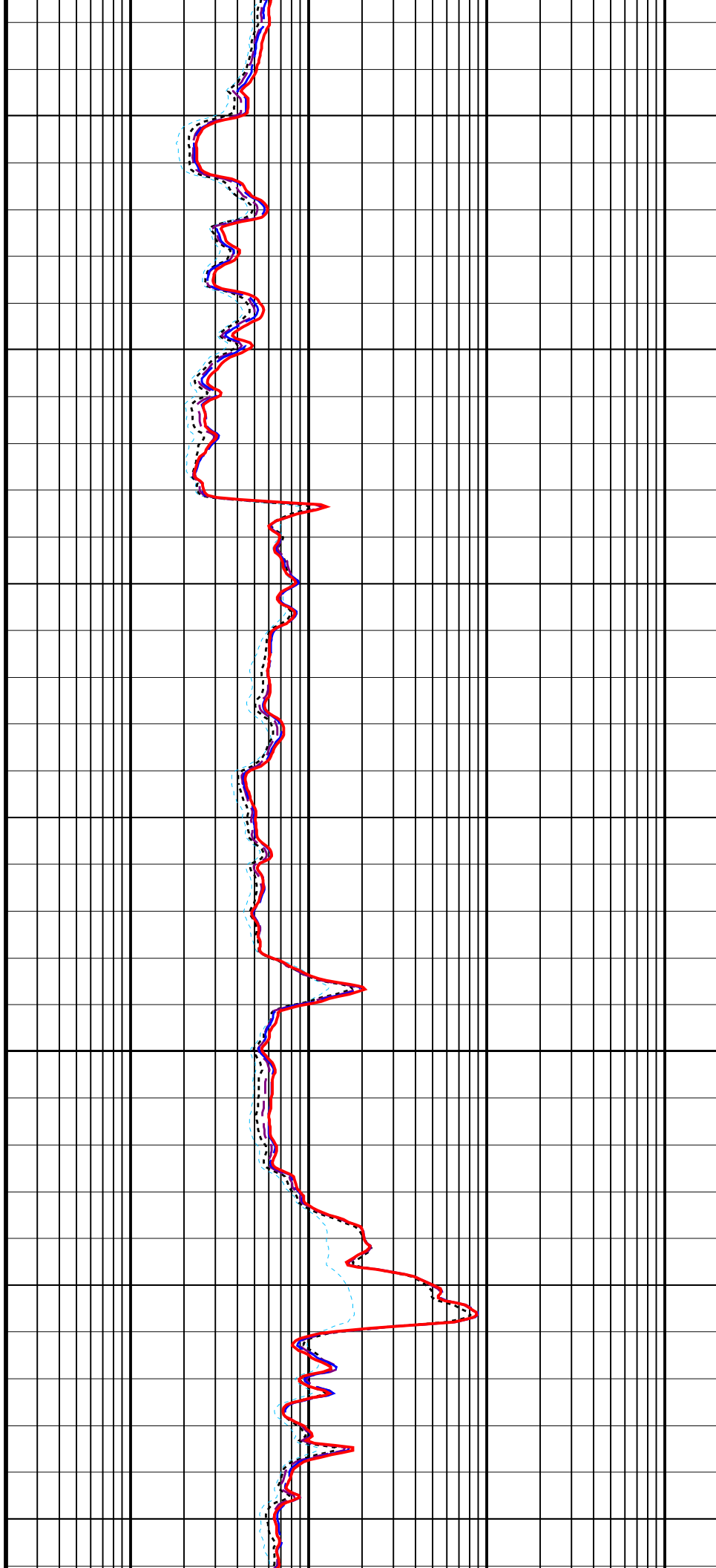
1025

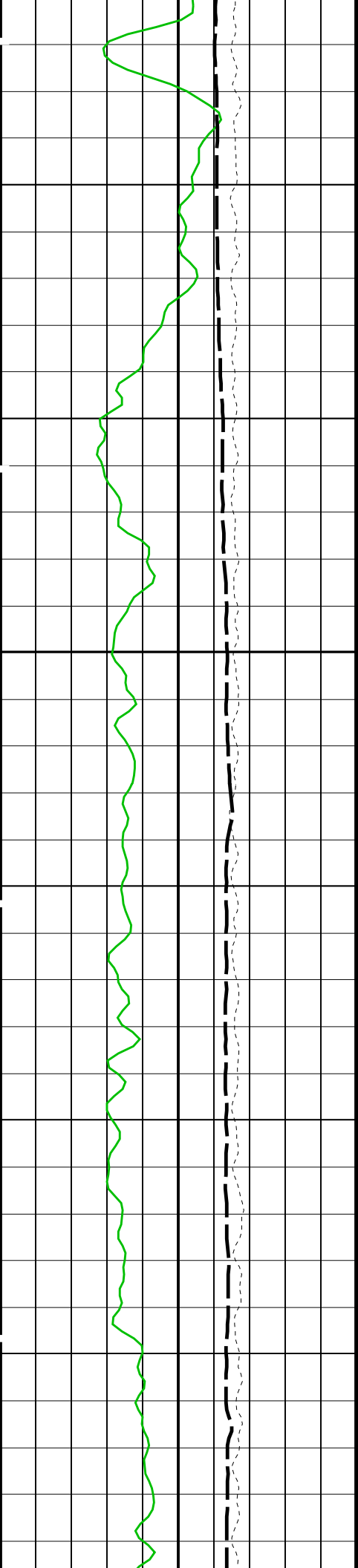
1050



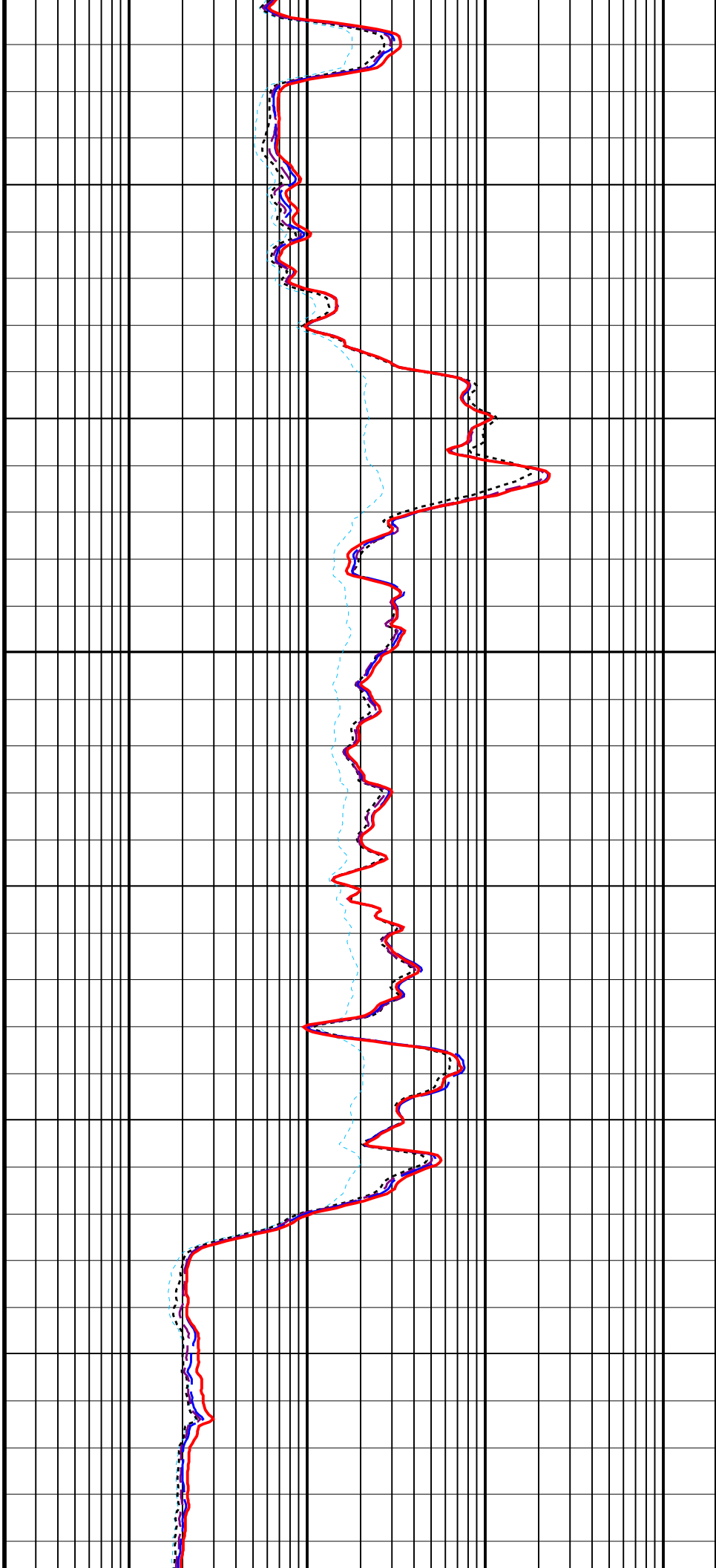


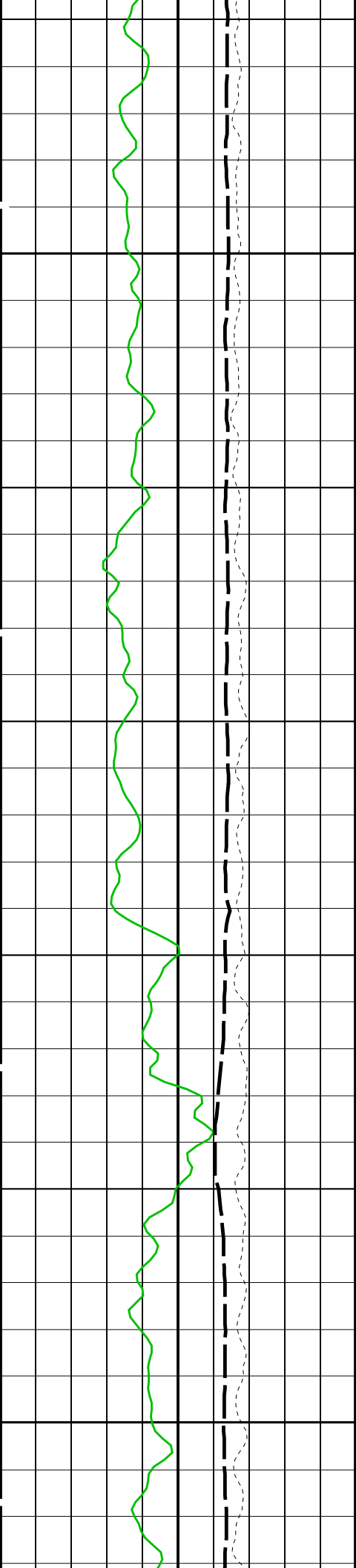
1075





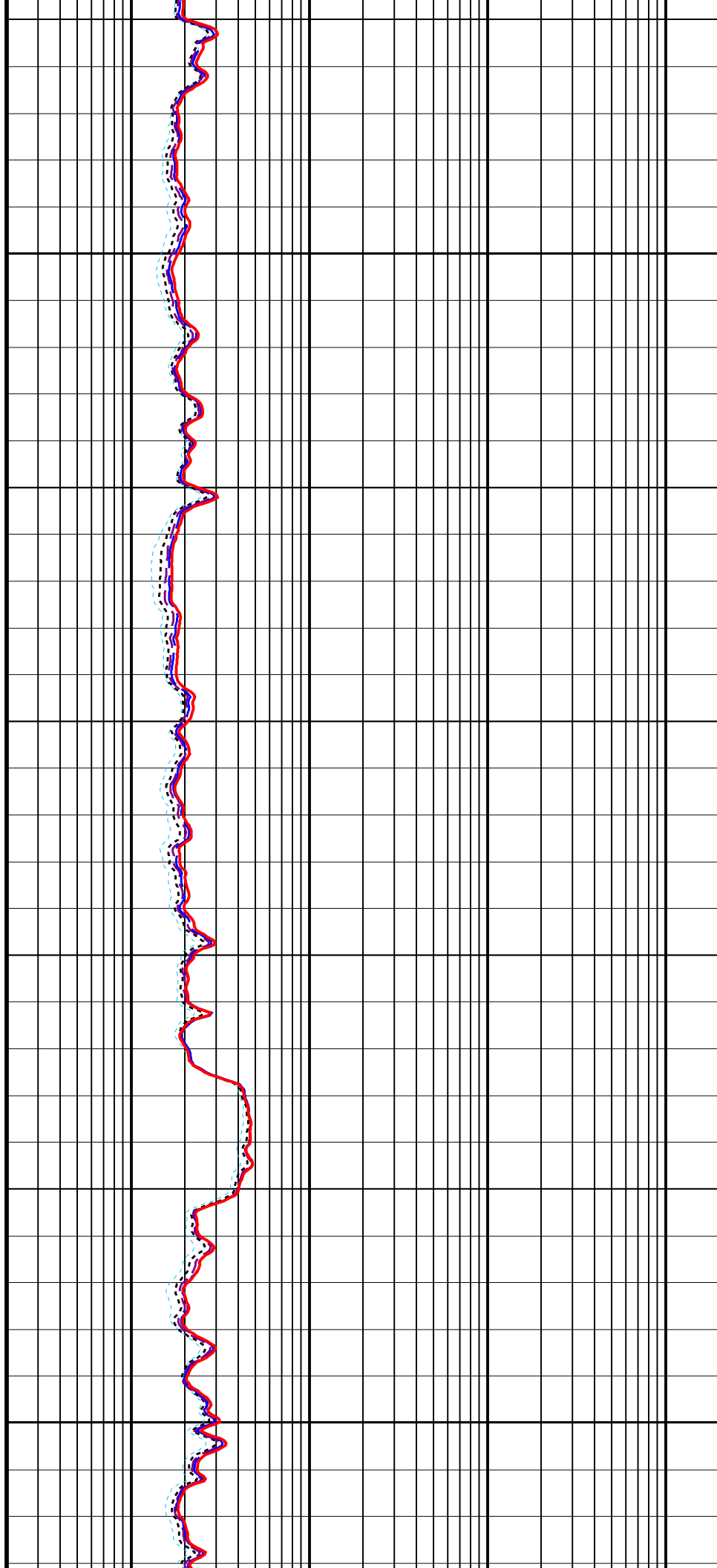
1100

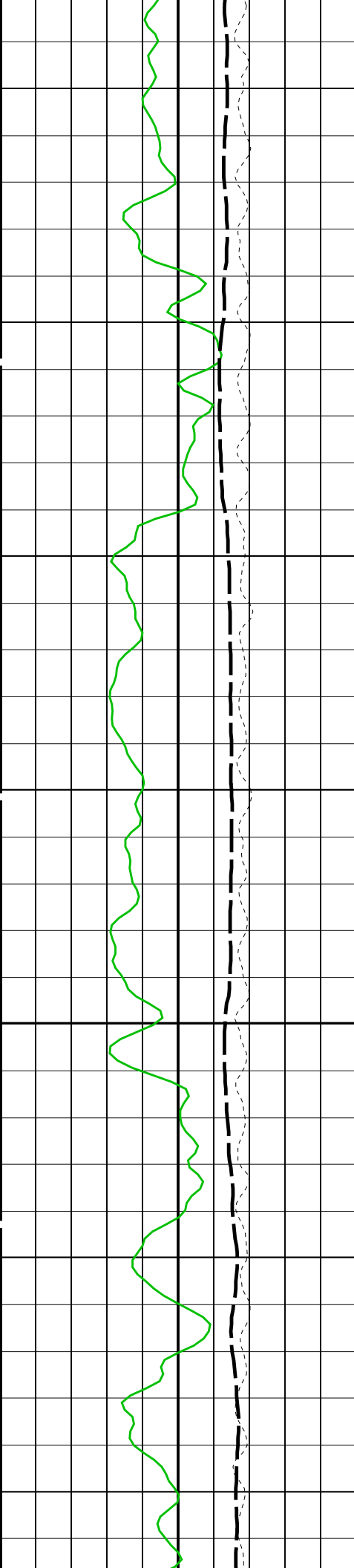




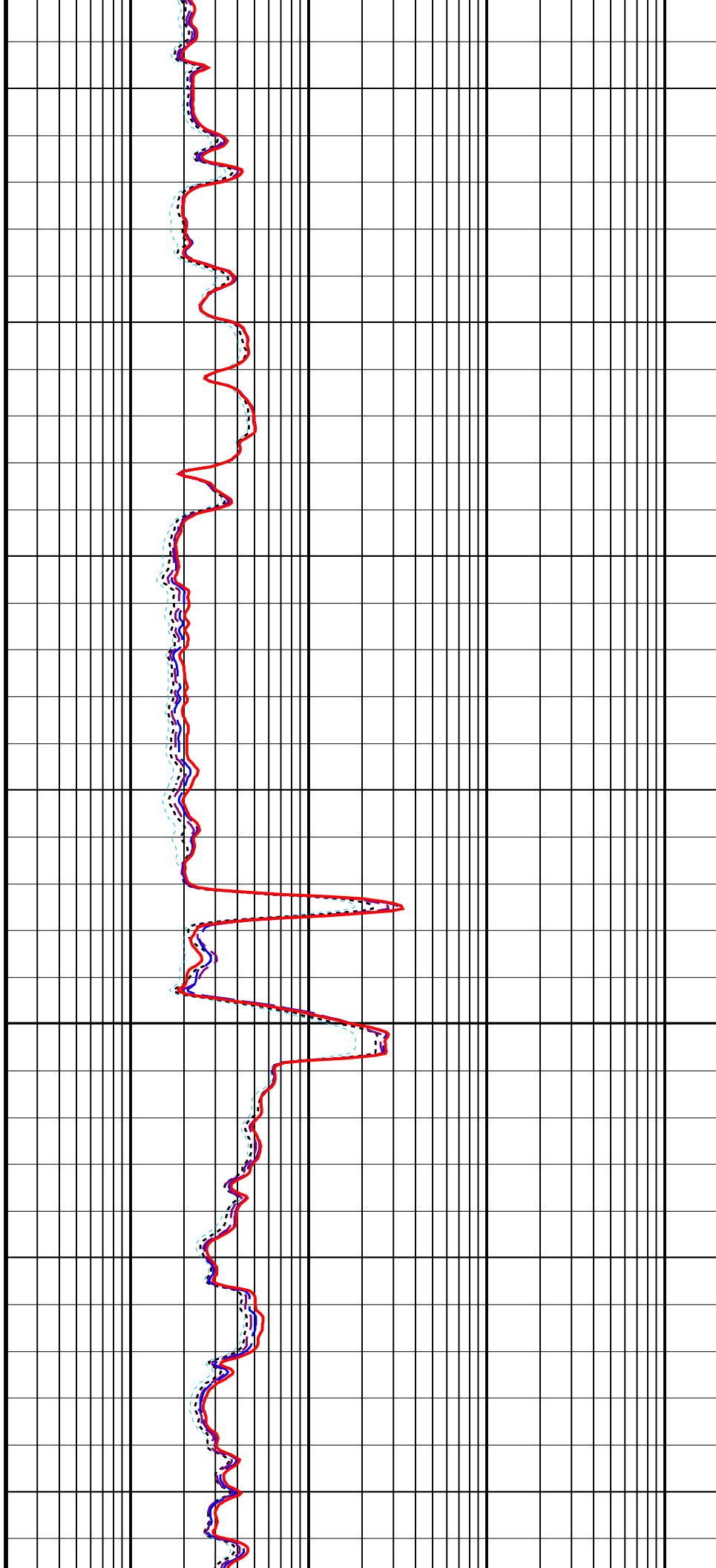
1125

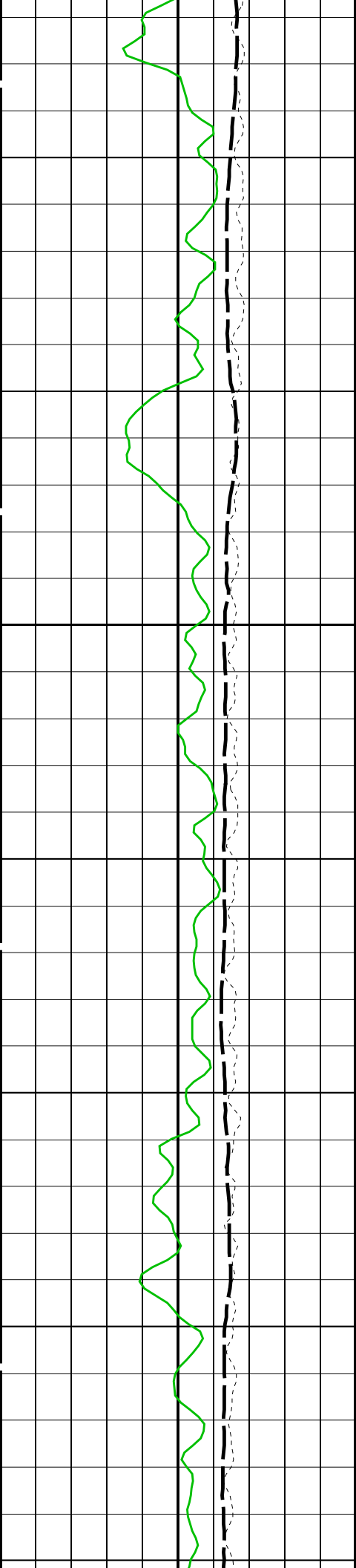
1150



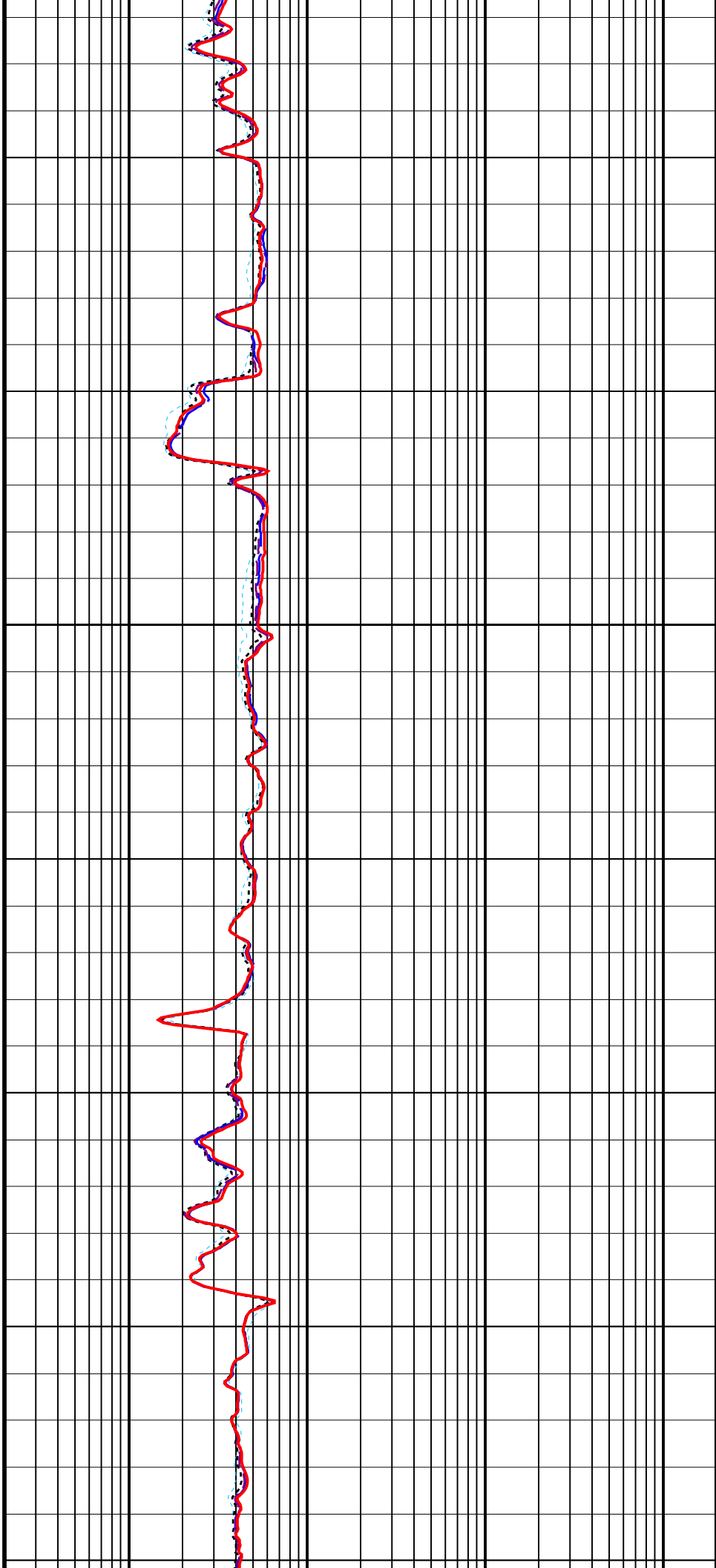


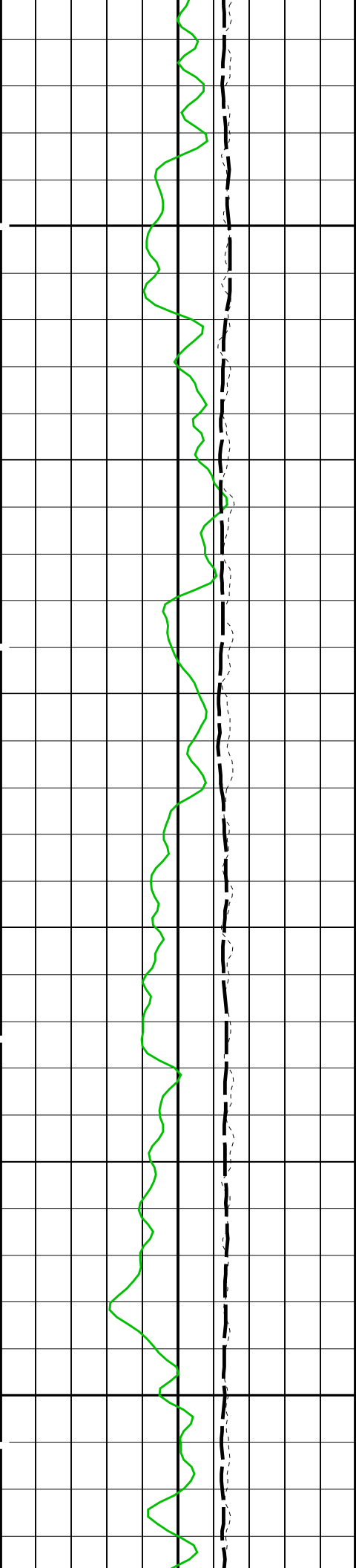
1175





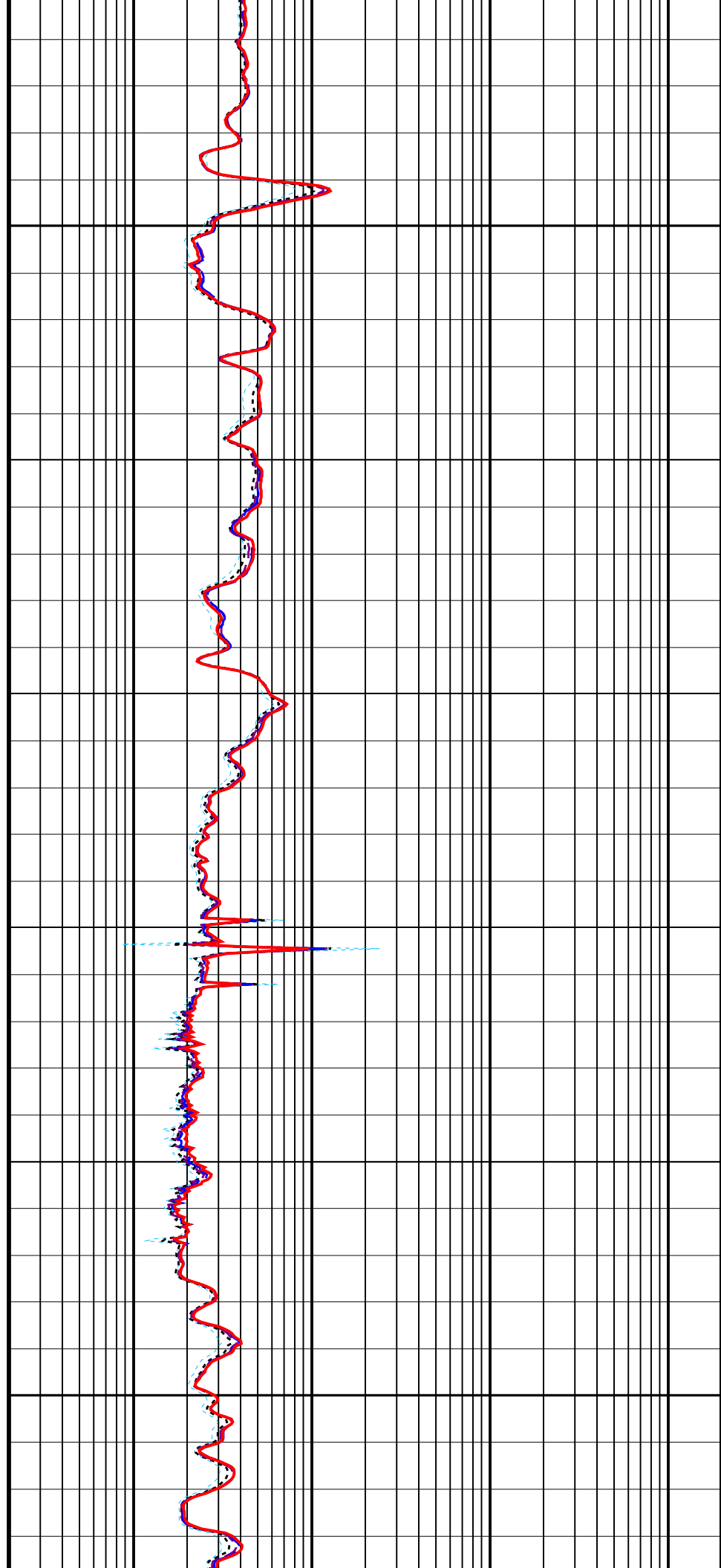
1200

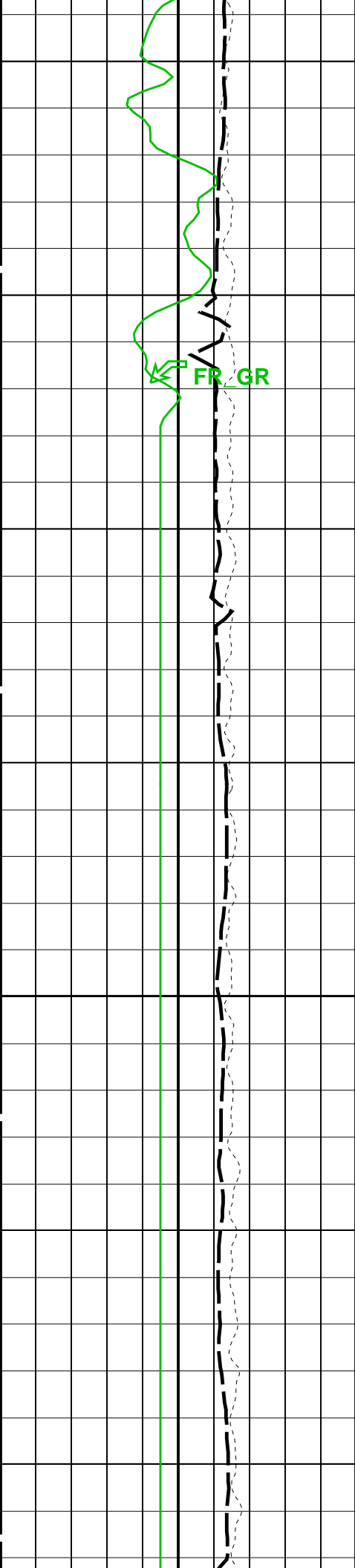




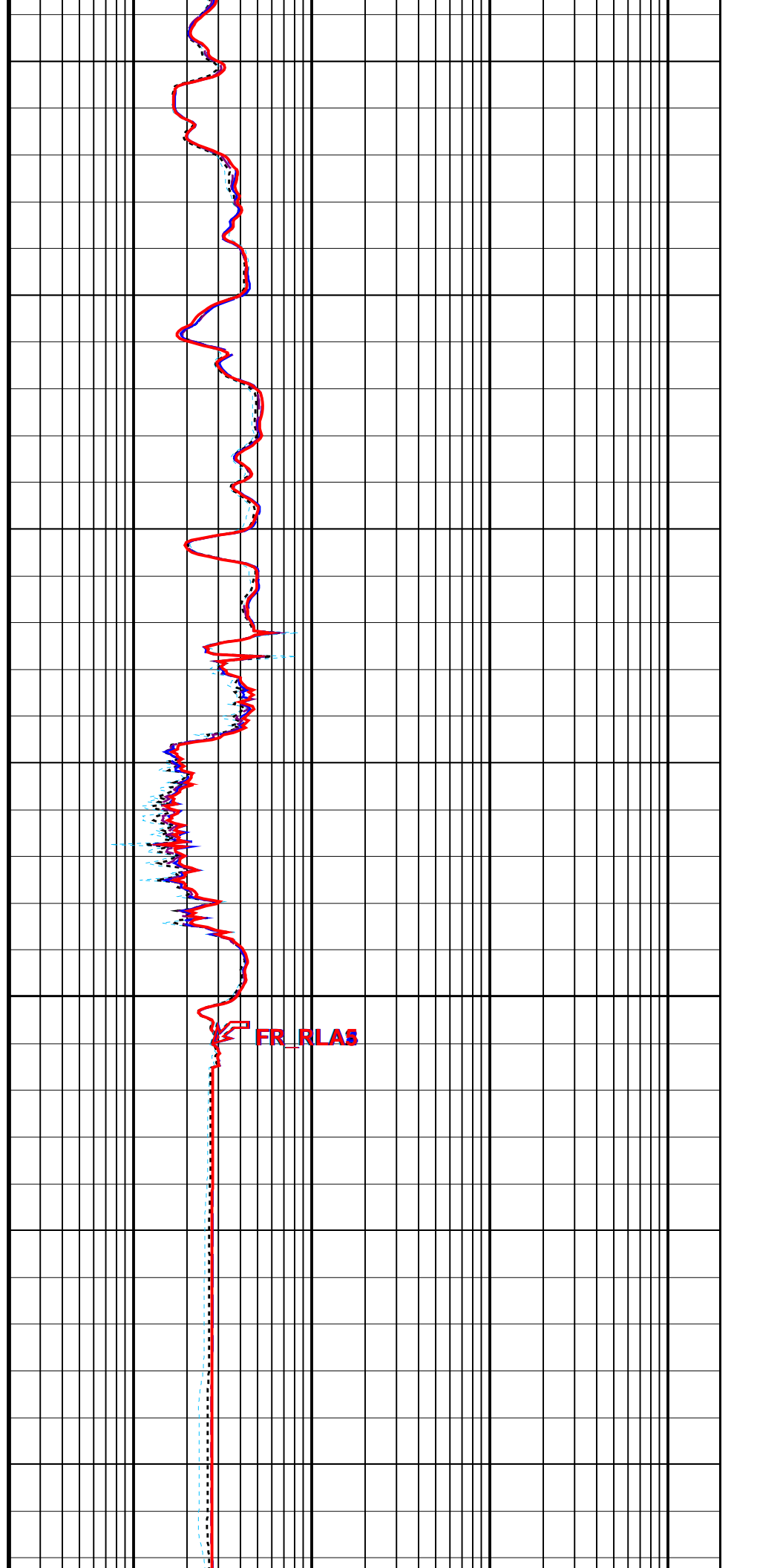
1225

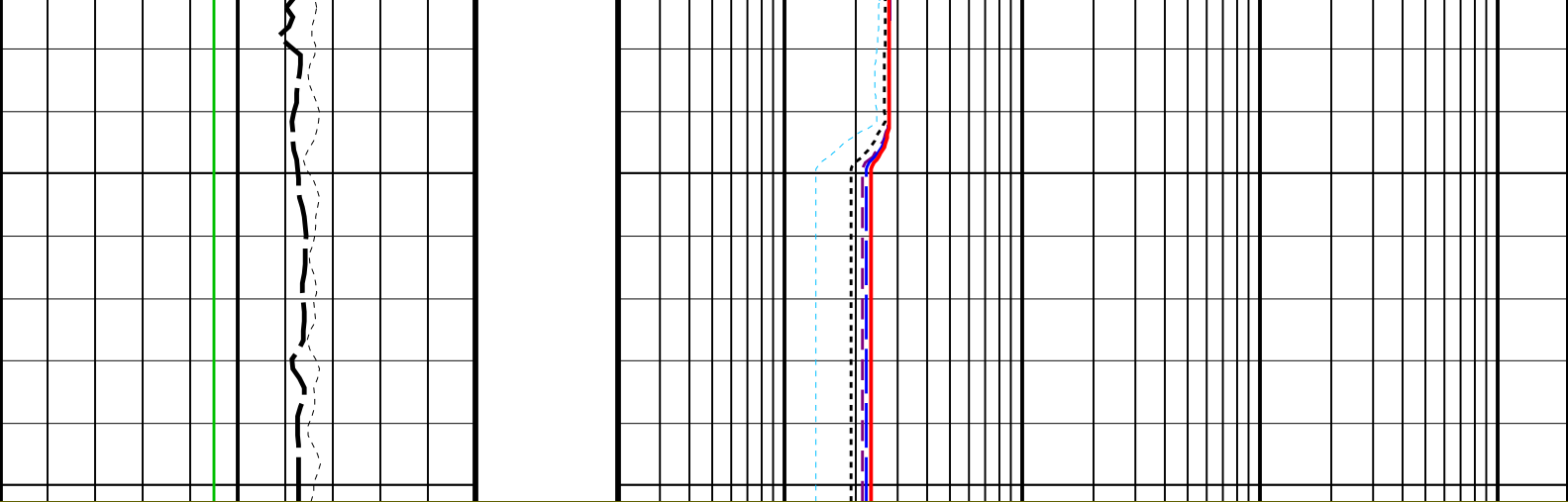
1250





1275





MAIN PASS – HRLA

Gamma Ray (GR_EDTC) (GAPI)		150	HRLT Resistivity 1 (RLA1) (OHMM)		2000
SP (SP) (MV)		30	HRLT Resistivity 2 (RLA2) (OHMM)		2000
Tension (TENS) 25000 (N)		0	HRLT Resistivity 3 (RLA3) (OHMM)		2000
			HRLT Resistivity 4 (RLA4) (OHMM)		2000
			HRLT Resistivity 5 (RLA5) (OHMM)		2000

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
SPNV	ZAIT-BA: 3-D Array Induction Tool – ZAIT- SP Next Value	0 MV
TRI RT	3D Rotation Selector	NorTH
KFAC_HRLT	HRLT-B: High Resolution Laterolog Array – E HRLT K Factor Option	SONDE
LBFR	STI: Stuck Tool Indicator	TDL
STKT	Trigger for MAXIS First Reading Label	1.524 M
TDD	STI Stuck Threshold	1310.00 M
TDL	Total Depth – Driller	1296.00 M
	Total Depth – Logger	
System and Miscellaneous		
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE

Format: HIRS-HRLT-CAN Vertical Scale: 1:120 Graphics File Created: 06-Mar-2007 14:16

OP System Version: 14C0-302			
MCM			
ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

Input DLIS Files						
DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M
Output DLIS Files						
DEFAULT	AIT CAL APS HRLA 085PUP	FN:98	PRODUCER	06-Mar-2007 14:16		



REPEAT ANALYSIS: HIGH
RESOLUTION LATEROLOG ARRAY

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_081PUP	FN:92	PRODUCER	06-Mar-2007 13:57	1190.4 M	716.0 M
DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M

Output DLIS Files

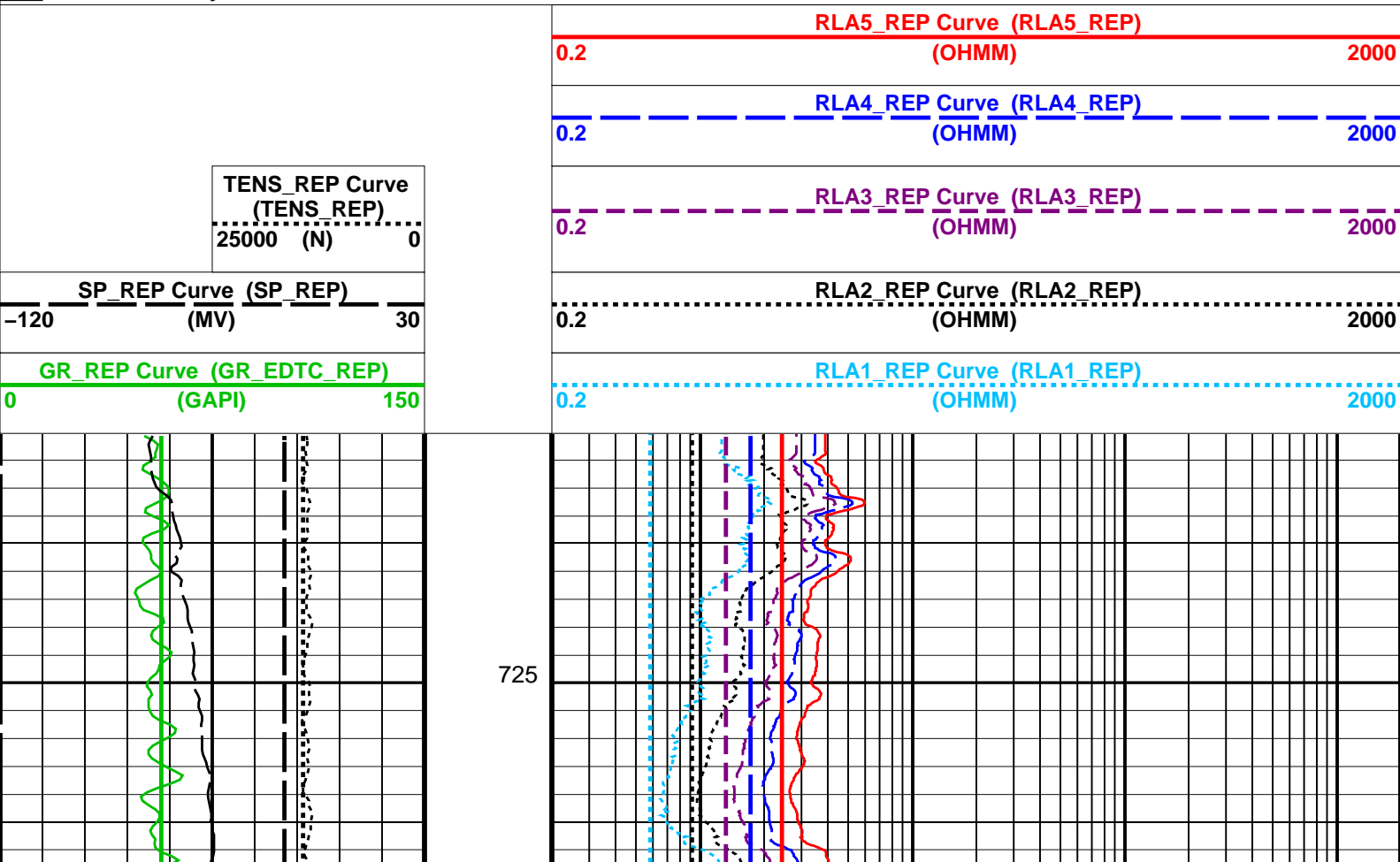
DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16
CLIENT DATA NOAITCAL_APS_HRLA_085PUP	FN:99	PRODUCER	06-Mar-2007 14:16	

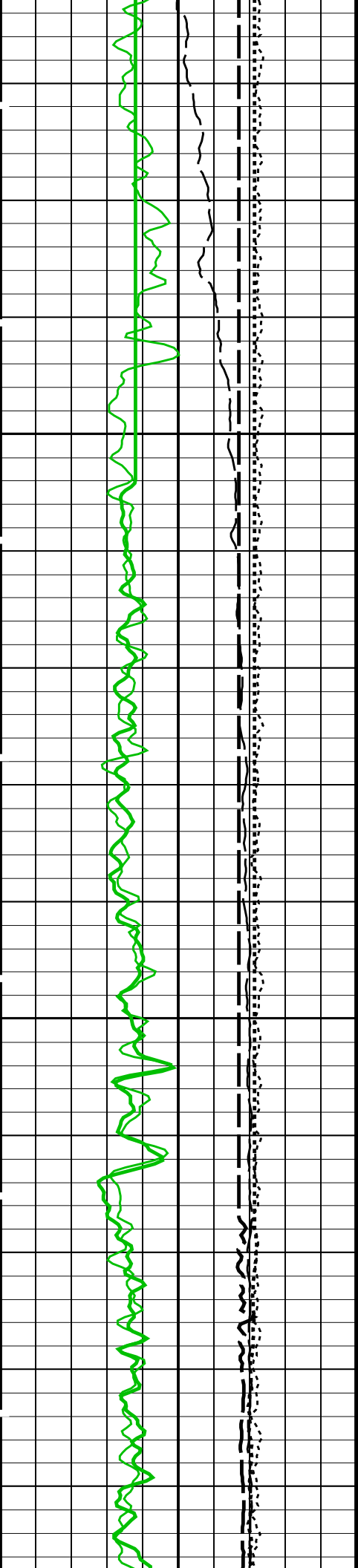
OP System Version: 14C0-302
MCM

ZAIT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

PIP SUMMARY

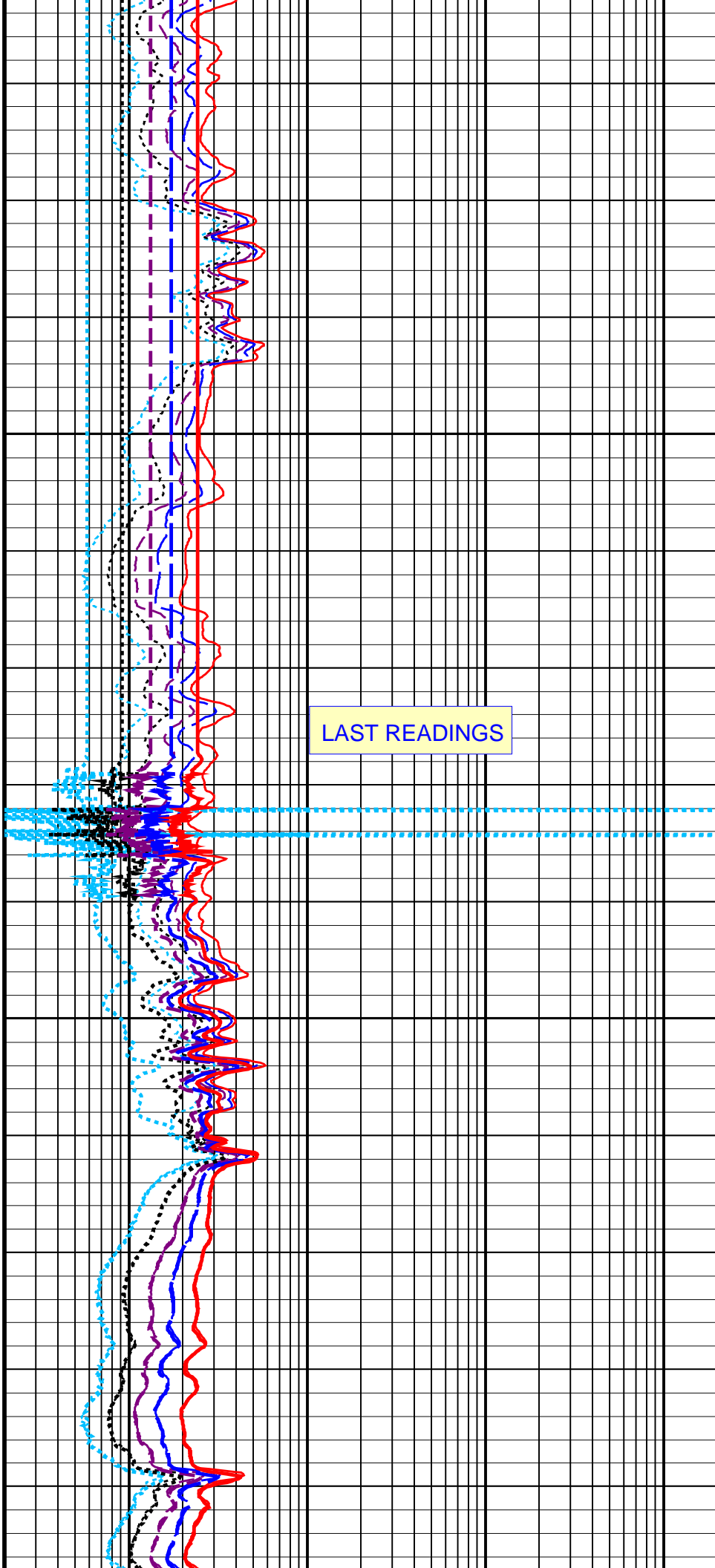
Time Mark Every 60 S

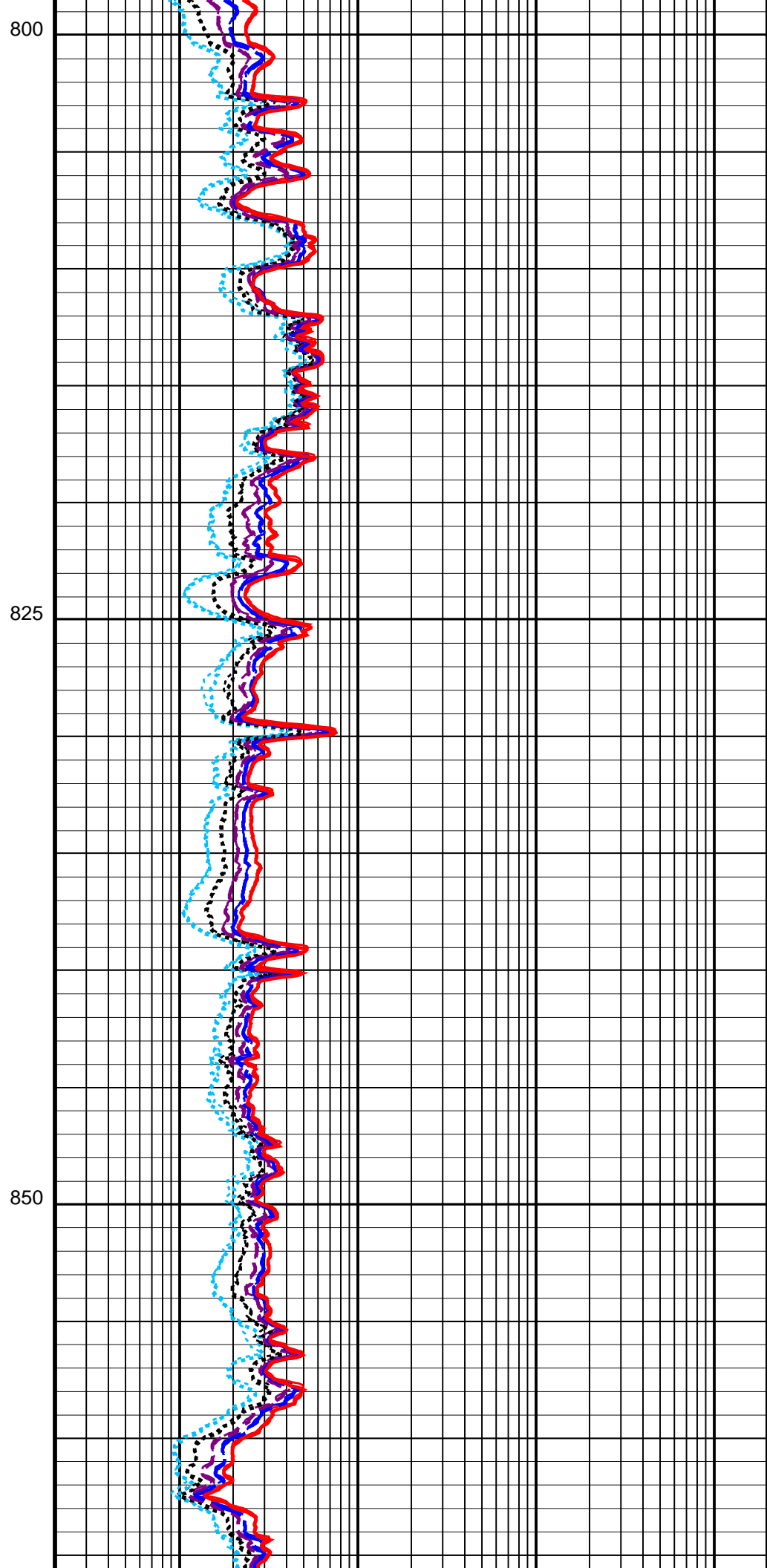
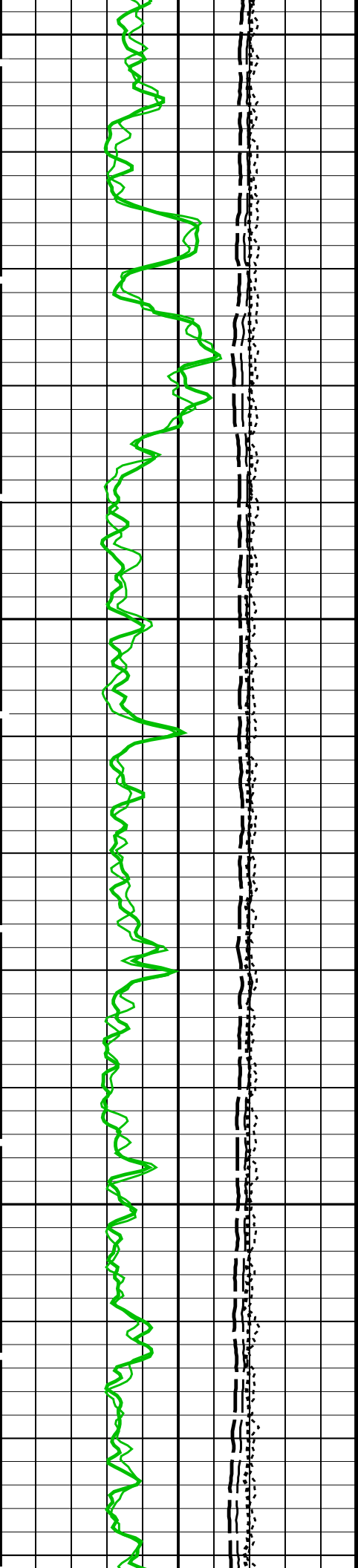


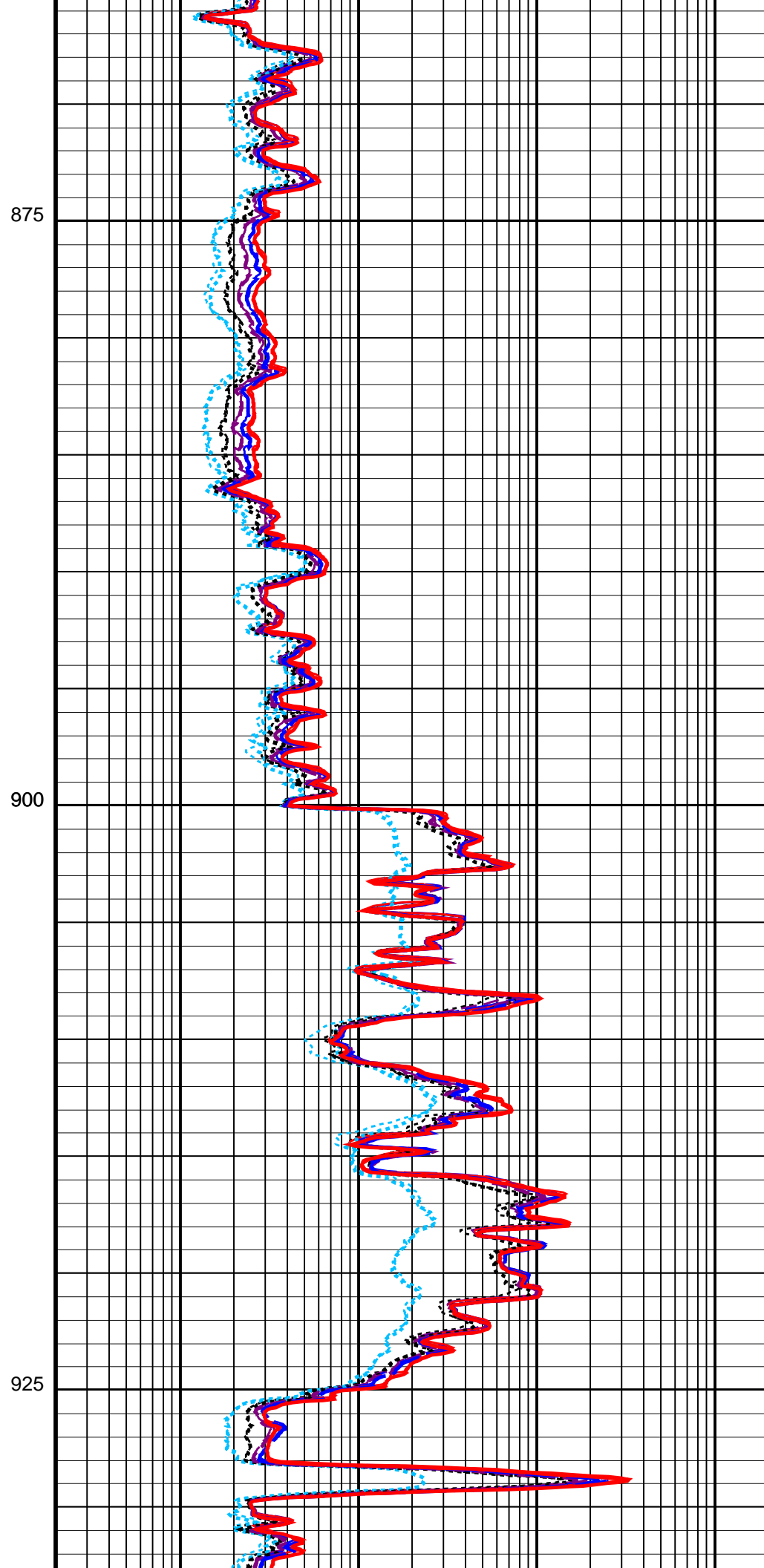
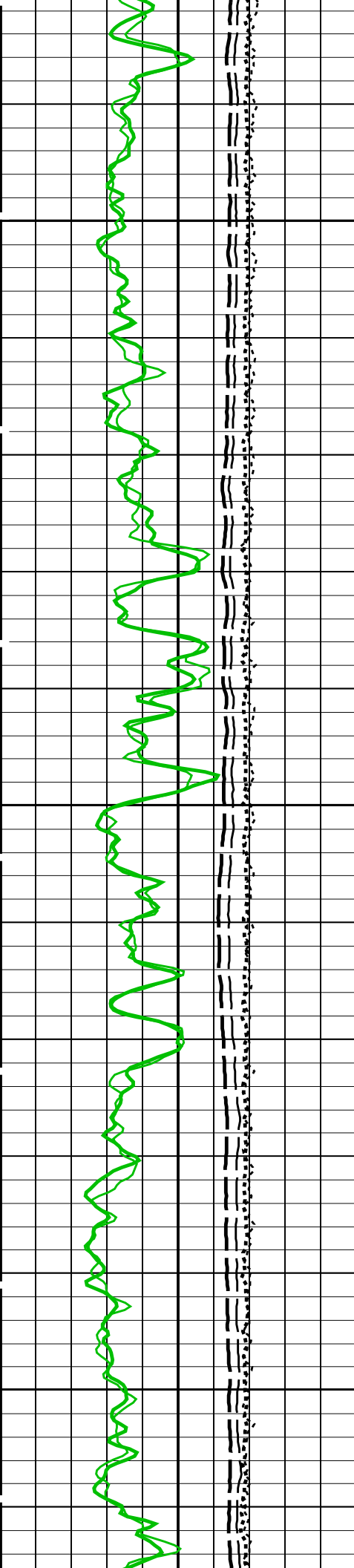


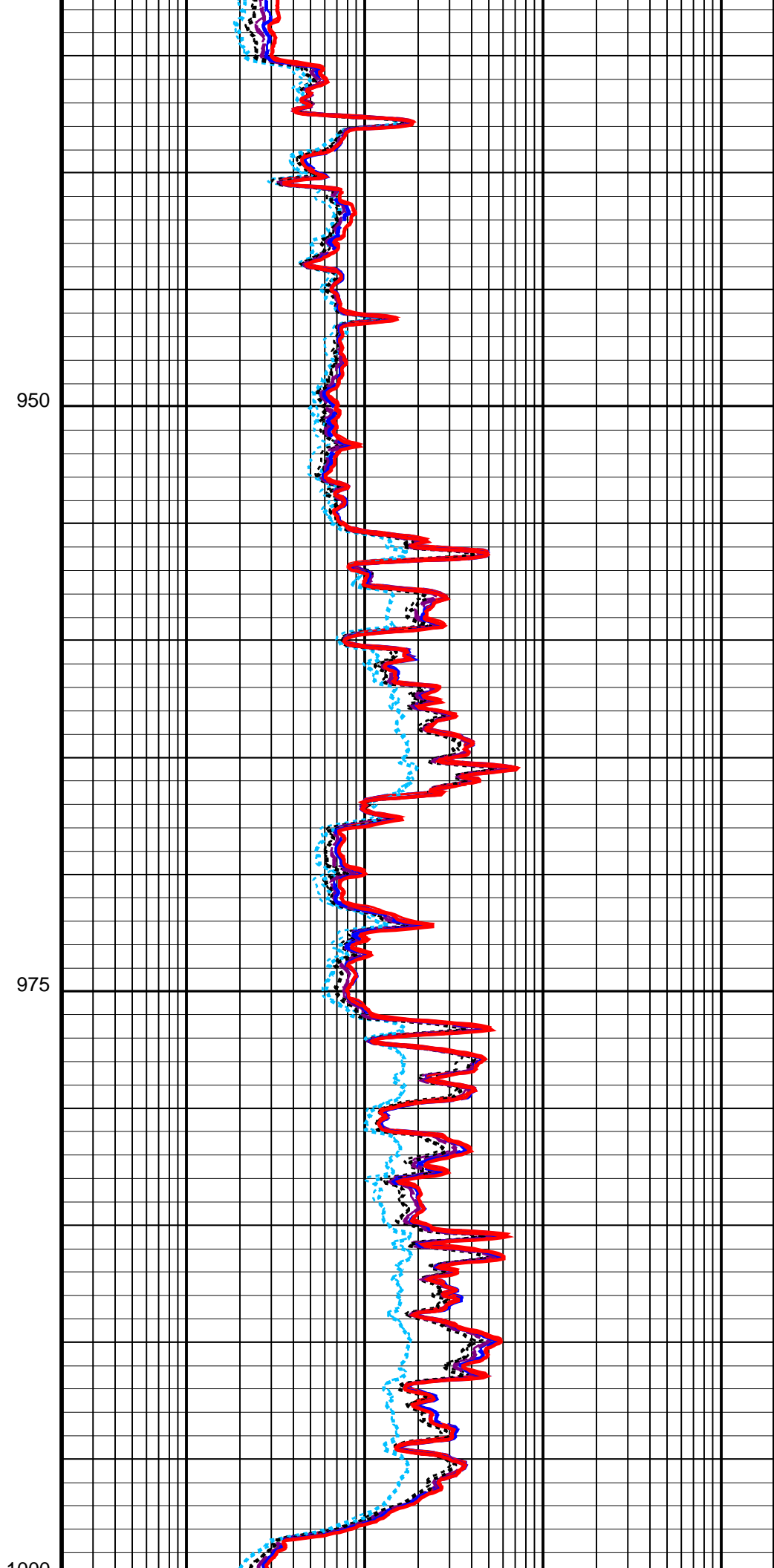
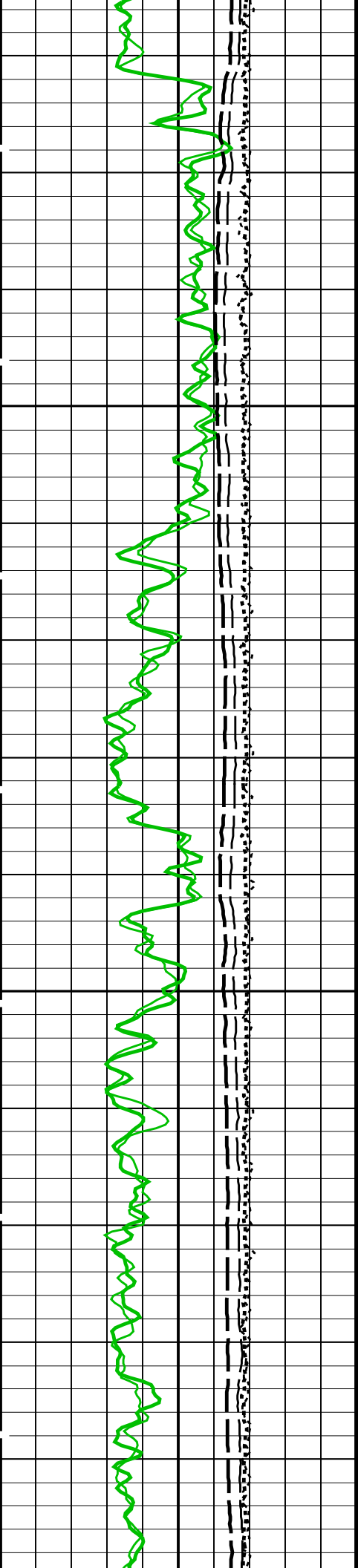
750

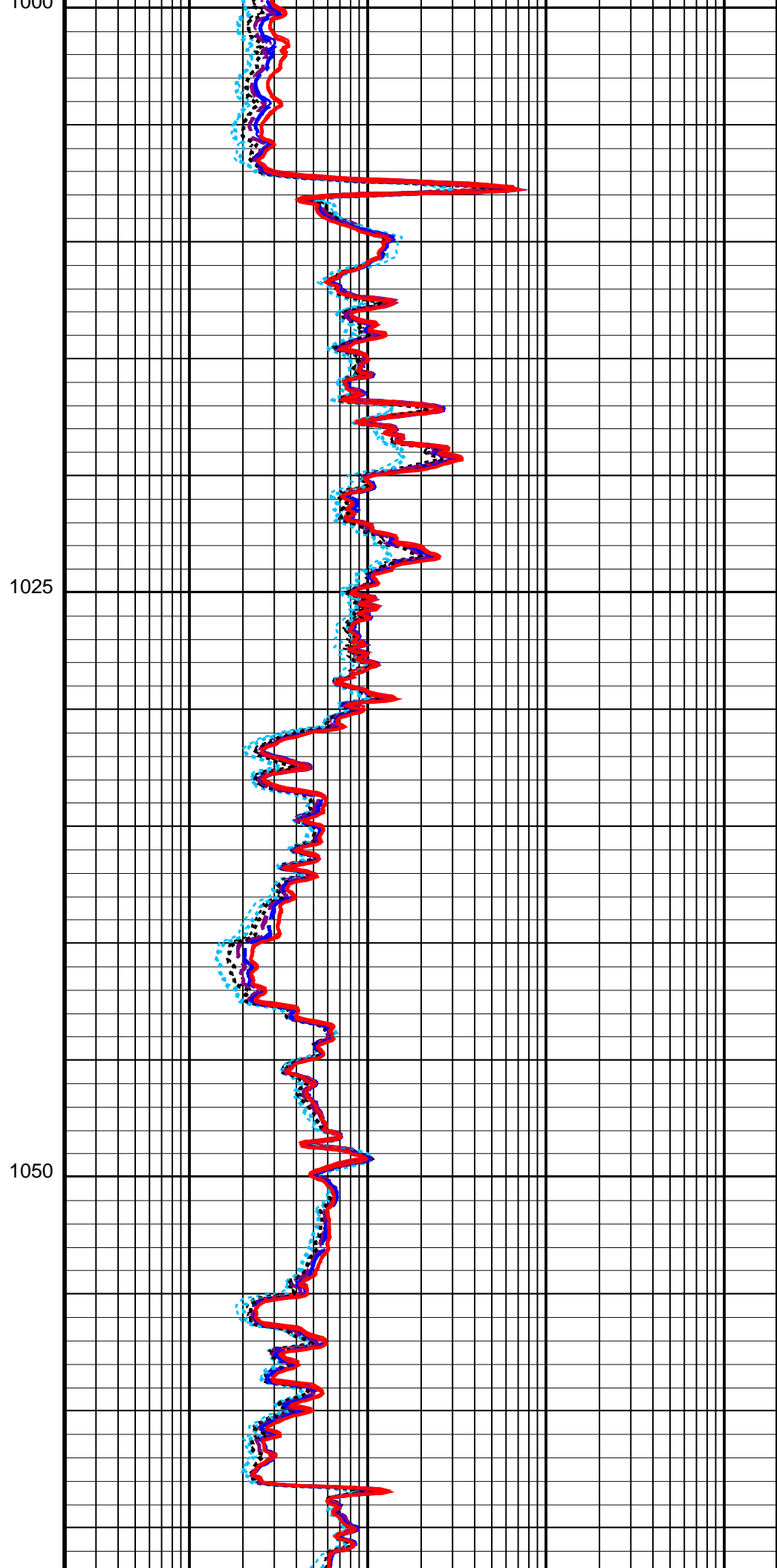
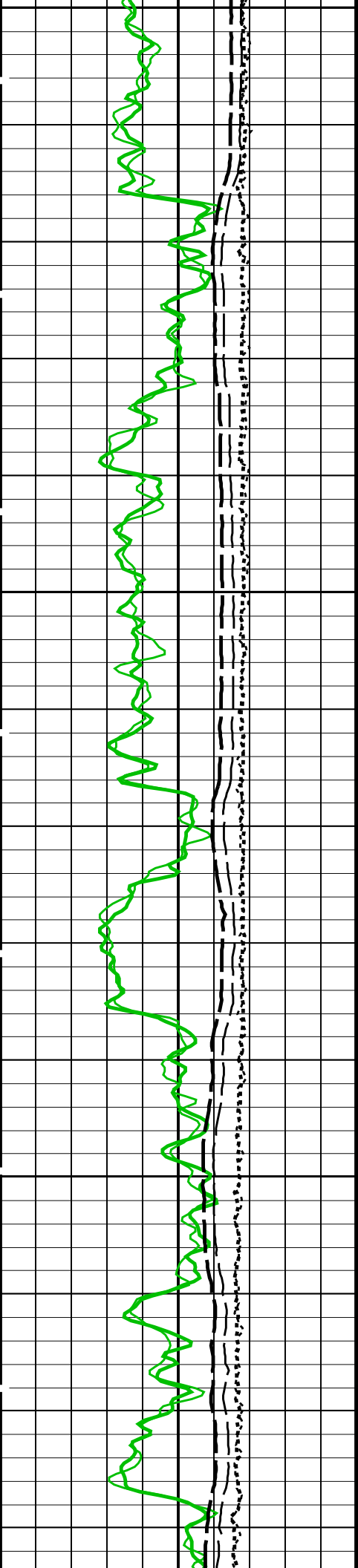
775

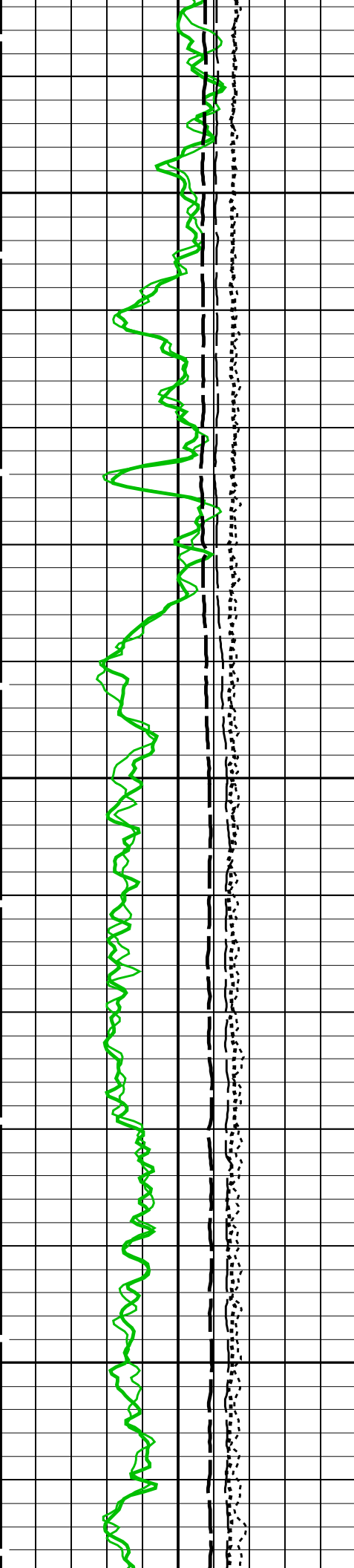








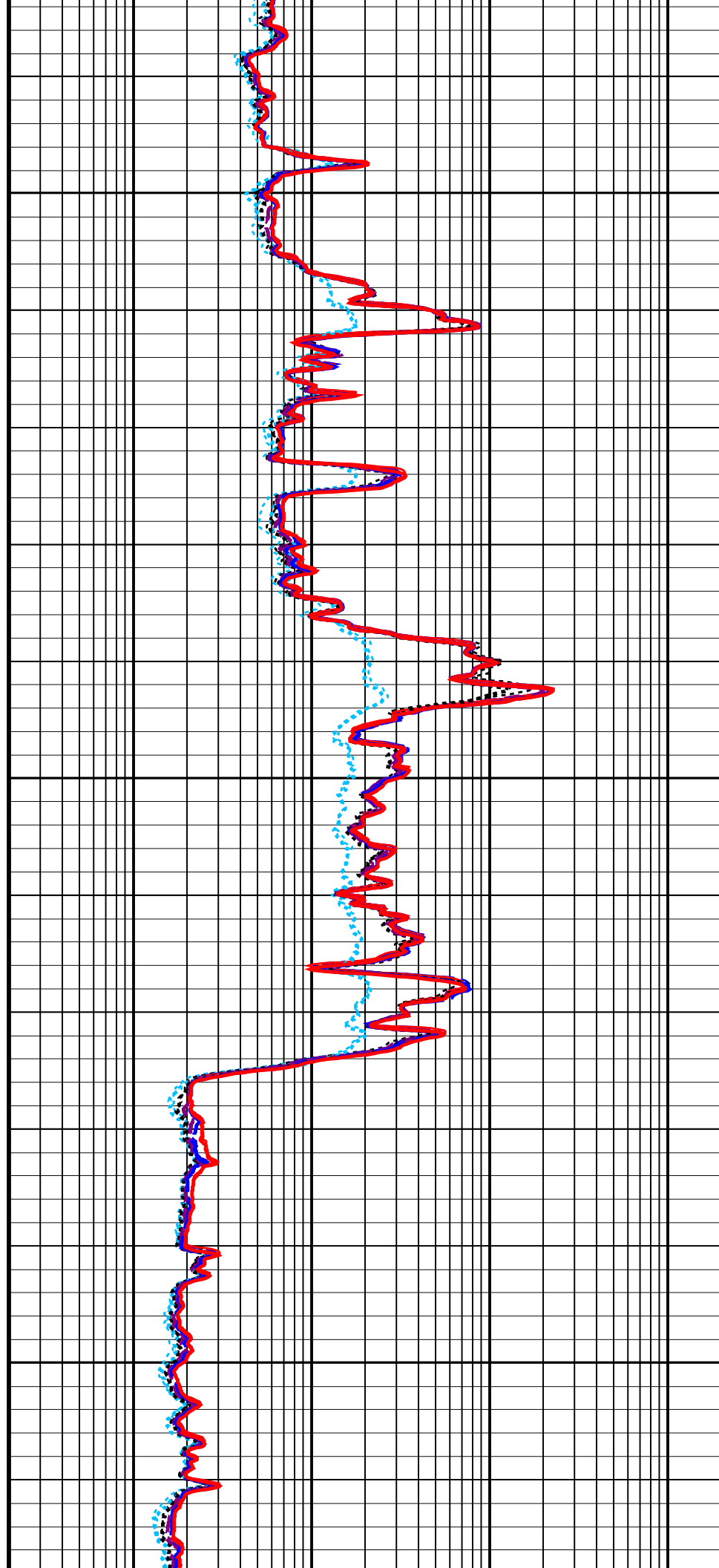


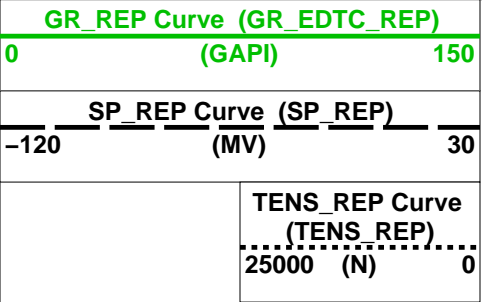
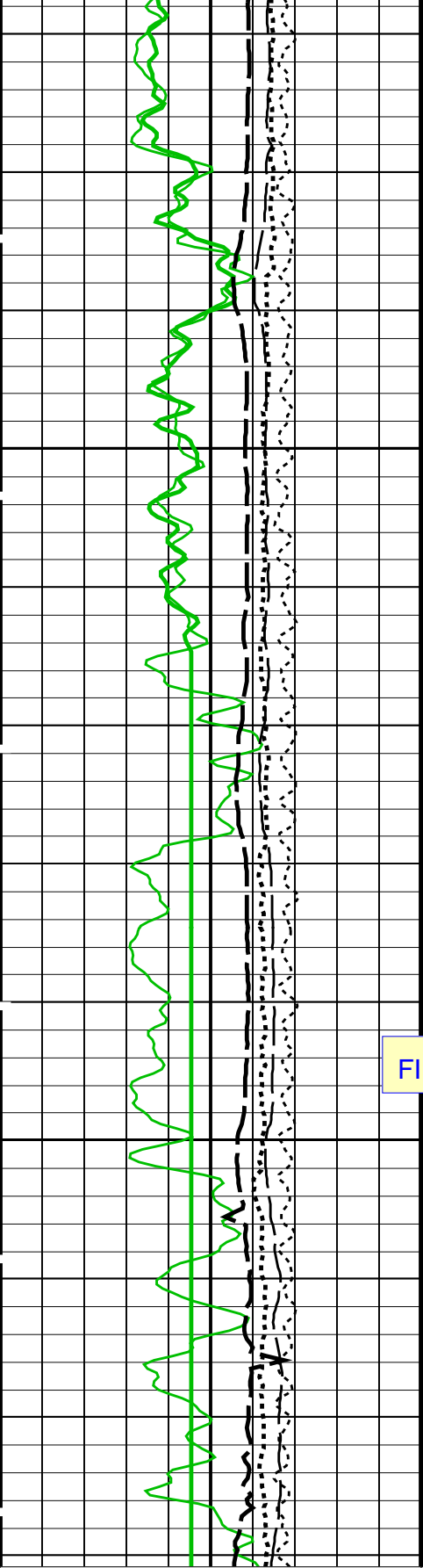


1075

1100

1125

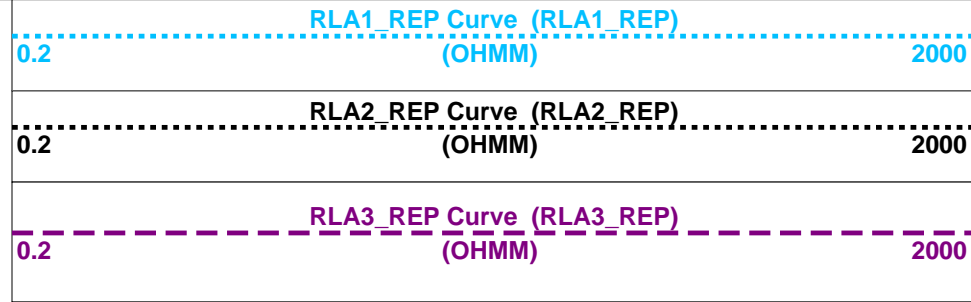
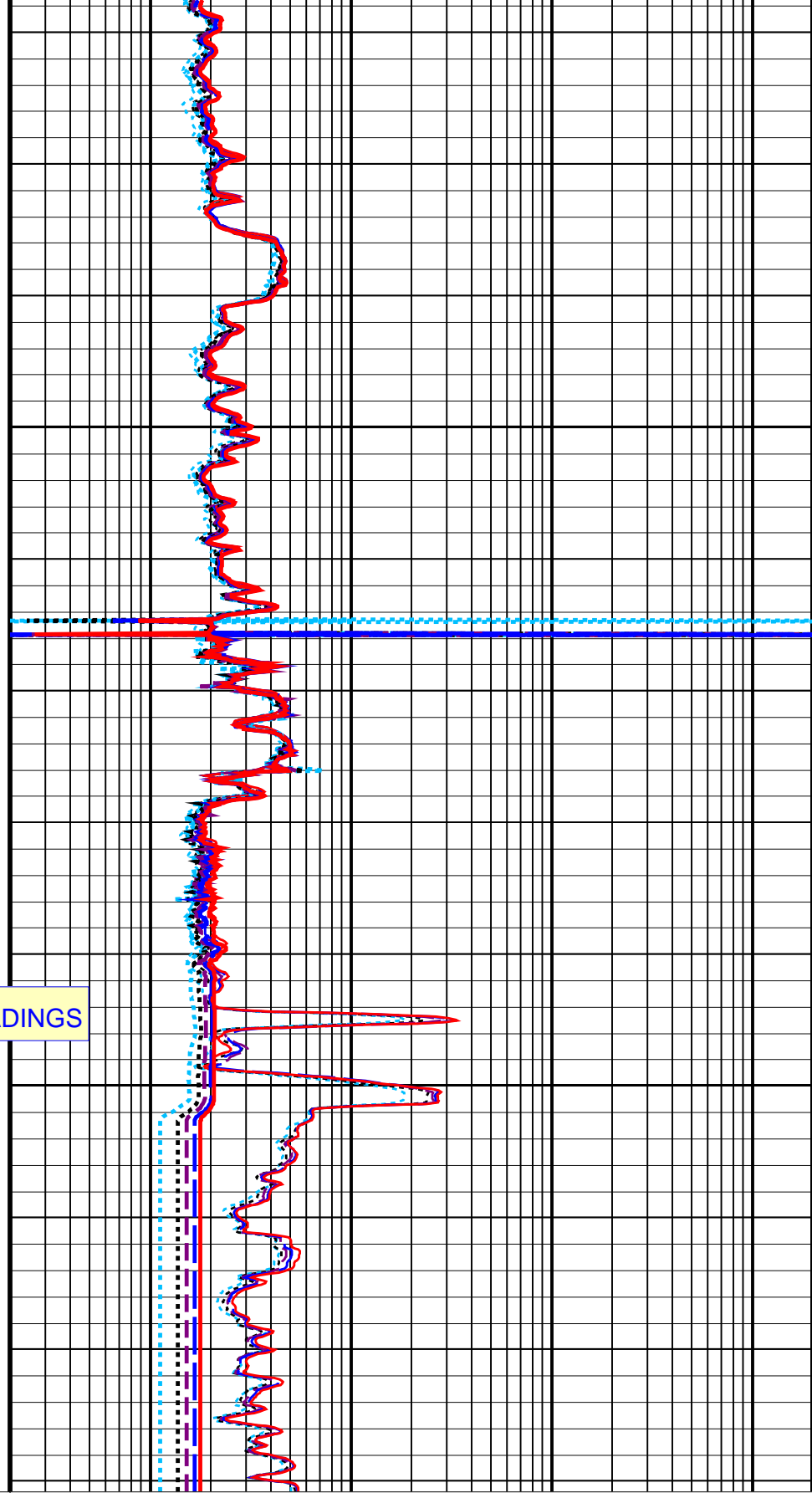




1150

1175

FIRST READINGS



0.2

(OHMM)

2000

RLA5_REP Curve (RLA5_REP)

0.2

(OHMM)

2000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SPNV	ZAiT-BA: 3-D Array Induction Tool – ZAIT-SP Next Value	0 MV
TRIRT	3D Rotation Selector	NorTH
KFAC_HRLT	HRLT-B: High Resolution Laterolog Array – E HRLT K Factor Option	SONDE
DO	System and Miscellaneous	
DORL	Depth Offset for Playback	0.0 M
PP	Depth Offset for Repeat Analysis	0.0 M
	Playback Processing	RECOMPUTE

Format: HRLT-S5-CAN_REP Vertical Scale: 1:240 Graphics File Created: 06-Mar-2007 14:16

OP System Version: 14C0-302

MCM

ZAiT-BA	SPC-3254-ZAIT-B_t	PPC2-B	SKK-3060-PPCB_b
APS-C	14C0-302	HRLT-B	14C0-302
EMS-B	14C0-302	GPIT-C	14C0-302
PPC1-B	SKK-3060-PPCB_b	EDTC-B	SKK-3248-EDTCB_b

Input DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_081PUP	FN:92	PRODUCER	06-Mar-2007 13:57	1190.4 M	716.0 M
DEFAULT	AIT_CAL_APS_HRLA_070PUP	FN:78	PRODUCER	06-Mar-2007 12:43	1295.2 M	557.0 M

Output DLIS Files

DEFAULT	AIT_CAL_APS_HRLA_085PUP	FN:98	PRODUCER	06-Mar-2007 14:16		
CLIENT_DATA_NOA	AIT_CAL_APS_HRLA_085PUP	FN:99	PRODUCER	06-Mar-2007 14:16		

Schlumberger

CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
3-D Array Induction Tool – ZAIT-B Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase							
Master: 29-Jan-2007 15:32 Before: 6-Mar-2007 10:03							
Thru Cal Magnitude – 0	0	1.345	1.345	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 1	0	1.336	1.342	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 2	0	1.387	1.387	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 3	0	3.071	3.081	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 4	0	3.051	3.073	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 5	0	3.167	3.175	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 6	0	2.477	2.486	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 7	0	2.461	2.480	N/A	N/A	N/A	MM/M

Thru Cal Magnitude – 8	0	2.559	2.566	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 9	0	1.623	1.648	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 10	0	1.634	1.677	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 11	0	1.796	1.826	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 12	0	3.239	3.240	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 13	0	3.221	3.236	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 14	0	3.346	3.344	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 15	0	2.606	2.648	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 16	0	2.624	2.694	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 17	0	2.884	2.933	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 18	0	0.8449	0.8455	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 19	0	0.8402	0.8443	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 20	0	0.8631	0.8636	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 21	0	3.452	3.512	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 22	0	3.476	3.573	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 23	0	3.821	3.890	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 24	0	1.224	1.228	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 25	0	1.217	1.226	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 26	0	1.250	1.254	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 27	0	3.452	3.512	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 28	0	3.476	3.573	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 29	0	3.821	3.890	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 30	0	1.223	1.227	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 31	0	1.216	1.225	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 32	0	1.250	1.253	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 33	0	0.9808	0.9989	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 34	0	0.9876	1.017	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 35	0	1.071	1.092	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 36	0	1.447	1.453	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 37	0	1.439	1.451	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 38	0	1.474	1.481	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 39	0	1.178	1.200	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 40	0	1.186	1.221	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 41	0	1.286	1.312	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 42	0	2.090	2.099	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 43	0	2.079	2.096	N/A	N/A	N/A	MM/M
Thru Cal Magnitude – 44	0	2.129	2.139	N/A	N/A	N/A	MM/M
Thru Cal Phase – 0	0	-174.6	-170.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 1	0	-170.2	-165.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 2	0	-177.4	-170.7	N/A	N/A	N/A	DEG
Thru Cal Phase – 3	0	-176.6	-172.6	N/A	N/A	N/A	DEG
Thru Cal Phase – 4	0	-172.3	-167.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 5	0	-179.4	-173.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 6	0	177.8	-178.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 7	0	-177.9	-173.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 8	0	175.0	-178.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 9	0	-72.00	-68.66	N/A	N/A	N/A	DEG
Thru Cal Phase – 10	0	-60.73	-56.78	N/A	N/A	N/A	DEG
Thru Cal Phase – 11	0	-72.15	-66.48	N/A	N/A	N/A	DEG
Thru Cal Phase – 12	0	-174.8	-170.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 13	0	-170.5	-165.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 14	0	-177.6	-171.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 15	0	-72.38	-69.02	N/A	N/A	N/A	DEG
Thru Cal Phase – 16	0	-61.11	-57.16	N/A	N/A	N/A	DEG
Thru Cal Phase – 17	0	-72.56	-66.88	N/A	N/A	N/A	DEG
Thru Cal Phase – 18	0	-174.3	-170.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 19	0	-170.0	-165.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 20	0	-177.4	-170.6	N/A	N/A	N/A	DEG
Thru Cal Phase – 21	0	-72.91	-69.65	N/A	N/A	N/A	DEG
Thru Cal Phase – 22	0	-61.64	-57.79	N/A	N/A	N/A	DEG
Thru Cal Phase – 23	0	-73.08	-67.48	N/A	N/A	N/A	DEG
Thru Cal Phase – 24	0	-177.2	-173.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 25	0	-172.9	-168.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 26	0	179.7	-173.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 27	0	-72.91	-69.64	N/A	N/A	N/A	DEG
Thru Cal Phase – 28	0	-61.64	-57.78	N/A	N/A	N/A	DEG
Thru Cal Phase – 29	0	-73.11	-67.50	N/A	N/A	N/A	DEG
Thru Cal Phase – 30	0	-177.2	-173.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 31	0	-172.9	-168.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 32	0	179.7	-173.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 33	0	-76.79	-73.46	N/A	N/A	N/A	DEG
Thru Cal Phase – 34	0	-65.38	-61.41	N/A	N/A	N/A	DEG
Thru Cal Phase – 35	0	-77.45	-71.74	N/A	N/A	N/A	DEG
Thru Cal Phase – 36	0	176.7	-179.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 37	0	-179.0	-174.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 38	0	173.6	-179.9	N/A	N/A	N/A	DEG
Thru Cal Phase – 39	0	-76.61	-73.28	N/A	N/A	N/A	DEG
Thru Cal Phase – 40	0	-65.22	-61.24	N/A	N/A	N/A	DEG
Thru Cal Phase – 41	0	-77.31	-71.58	N/A	N/A	N/A	DEG
Thru Cal Phase – 42	0	177.4	-178.5	N/A	N/A	N/A	DEG
Thru Cal Phase – 43	0	-178.3	-173.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 44	0	174.2	-179.1	N/A	N/A	N/A	DEG

Third Cal Phase – 44	0	174.2	-179.1	N/A	N/A	N/A	DEG
3-D Array Induction Tool – ZAIT–B Wellsite Calibration – Electronics Calibration Check – Auxilliary							
Master: 29-Jan-2007 15:32 Before: 6-Mar-2007 10:03							
Array Induction SPA Plus	0.8360	0.8436	0.8439	N/A	N/A	N/A	V
Array Induction SPA Zero	0	-0.0007702	-0.0008081	N/A	N/A	N/A	V
Array Induction Temperature PI	0.9798	0.9906	0.9913	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	-0.001124	-0.001140	N/A	N/A	N/A	V
Array Induction CalSig Plus	5.000	5.015	5.017	N/A	N/A	N/A	V
Array Induction CalSig Zero	0	-0.01105	-0.01122	N/A	N/A	N/A	V
Array Induction Volt Plus	2.500	5.014	12.04	N/A	N/A	N/A	V
Array Induction Volt Zero	0	-0.01105	-0.02693	N/A	N/A	N/A	V

3-D Array Induction Tool – ZAIT–B Wellsite Calibration – Sonde Error Correction							
Master: 29-Jan-2007 15:32							
R Sonde Error Correction – 0	0	20.92	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	754.2	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	–1325	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	33.96	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	154.4	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	85.67	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	63.31	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	148.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 8	0	90.72	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 9	0	–492.9	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 10	0	18.30	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 11	0	–119.2	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 12	0	–6.887	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 13	0	–394.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 14	0	65.79	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 15	0	52.97	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 16	0	87.06	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 17	0	–85.69	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 18	0	–264.4	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 19	0	2.997	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 20	0	–67.21	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 21	0	–2.146	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 22	0	–171.0	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 23	0	2.315	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 24	0	43.68	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 25	0	57.55	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 26	0	–78.64	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 27	0	–324.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 28	0	6.777	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 29	0	–20.82	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 30	0	11.65	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 31	0	–333.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 32	0	48.80	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 33	0	5.421	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 34	0	–1.054	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 35	0	124.1	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 36	0	–319.1	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 37	0	6.994	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 38	0	0.5654	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 39	0	1.085	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 40	0	–323.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 41	0	15.87	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 42	0	–0.8276	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 43	0	0.7432	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 44	0	47.85	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 45	0	–15.48	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 46	0	–9.021	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 47	0	–31.66	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 48	0	11.94	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 49	0	–17.19	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 50	0	18.09	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 51	0	5.572	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 52	0	8.875	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 53	0	59.44	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 54	0	–2.308	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 55	0	–1.336	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 56	0	–1.396	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 57	0	0.9340	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 58	0	1.078	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 59	0	6.561	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 60	0	4.802	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 61	0	5.034	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 62	0	26.23	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 63	0	–2.579	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 64	0	29.50	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 65	0	–15.76	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 66	0	–19.63	N/A	N/A	N/A	N/A	MM/M

R Sonde Error Correction – 67	0	-0.2565	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 68	0	3.726	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 69	0	-6.196	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 70	0	-0.5899	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 71	0	22.25	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 72	0	0.3745	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 73	0	1.286	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 74	0	-1.035	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 75	0	-1.570	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 76	0	2.299	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 77	0	1.771	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 78	0	0.7233	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 79	0	0.7604	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 80	0	10.68	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 81	0	-15.45	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 82	0	-8.384	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 83	0	-11.00	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 84	0	13.94	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 85	0	-15.01	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 86	0	4.540	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 87	0	-0.8786	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 88	0	2.126	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 89	0	3.597	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 90	0	-12.18	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 91	0	-2.645	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 92	0	-1.279	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 93	0	2.192	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 94	0	-10.83	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 95	0	1.041	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 96	0	0.9281	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 97	0	0.2935	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 98	0	3.097	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 99	0	-41.39	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 100	0	15.87	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 101	0	-6.421	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 102	0	-11.33	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 103	0	-45.67	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 104	0	-0.1936	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 105	0	1.150	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 106	0	-1.690	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 107	0	-2.731	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 108	0	-40.59	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 109	0	3.576	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 110	0	-0.6722	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 111	0	-3.843	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 112	0	-42.31	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 113	0	-0.1958	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 114	0	1.999	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 115	0	-0.4481	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 116	0	2.266	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	5052	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	8939	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	-103.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	2129	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	830.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	-295.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	700.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	567.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 8	0	-25.51	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 9	0	-220.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 10	0	-581.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 11	0	994.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 12	0	1033	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 13	0	-632.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 14	0	101.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 15	0	-554.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 16	0	-705.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 17	0	221.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 18	0	-380.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 19	0	-278.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 20	0	485.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 21	0	513.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 22	0	-557.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 23	0	48.64	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 24	0	-300.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 25	0	-369.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 26	0	74.67	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 27	0	722.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 28	0	-93.67	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 29	0	251.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 30	0	-837.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 31	0	820.5	N/A	N/A	N/A	N/A	MM/M

X Sonde Error Correction – 31	0	829.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 32	0	-442.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 33	0	-174.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 34	0	-100.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 35	0	-78.95	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 36	0	421.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 37	0	-48.20	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 38	0	122.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 39	0	-417.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 40	0	470.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 41	0	227.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 42	0	-78.56	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 43	0	-45.15	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 44	0	-9.689	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 45	0	2082	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 46	0	368.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 47	0	780.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 48	0	-416.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 49	0	1985	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 50	0	139.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 51	0	784.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 52	0	-98.90	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 53	0	-19.65	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 54	0	1017	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 55	0	188.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 56	0	388.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 57	0	-209.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 58	0	968.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 59	0	72.00	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 60	0	391.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 61	0	-48.64	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 62	0	2.136	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 63	0	635.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 64	0	-951.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 65	0	180.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 66	0	918.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 67	0	611.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 68	0	30.84	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 69	0	286.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 70	0	-46.72	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 71	0	18.34	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 72	0	262.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 73	0	-472.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 74	0	86.88	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 75	0	457.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 76	0	250.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 77	0	17.22	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 78	0	139.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 79	0	-23.30	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 80	0	16.27	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 81	0	315.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 82	0	586.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 83	0	112.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 84	0	-578.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 85	0	295.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 86	0	-83.63	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 87	0	7.633	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 88	0	-185.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 89	0	20.93	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 90	0	84.33	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 91	0	298.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 92	0	55.94	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 93	0	-297.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 94	0	74.61	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 95	0	-40.80	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 96	0	3.809	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 97	0	-91.97	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 98	0	14.05	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 99	0	152.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 100	0	-416.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 101	0	-42.07	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 102	0	450.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 103	0	156.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 104	0	-17.73	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 105	0	-3.397	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 106	0	24.17	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 107	0	55.88	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 108	0	126.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 109	0	-220.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 110	0	-21.33	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 111	0	234.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 112	0	128.4	N/A	N/A	N/A	N/A	MM/M

X Sonde Error Correction – 113	0	-4.797	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 114	0	-1.614	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 115	0	14.76	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 116	0	8.951	N/A	N/A	N/A	N/A	MM/M

Powered Positioning Deveice/Caliper 2 Wellsite Calibration – PPC2 Caliper Calibration

Before: 5–Mar–2007 19:34

PPC2 Radius 1 Raw Small Radius	88.90	N/A	139.6	N/A	N/A	12.70	MM
PPC2 Radius 1 Raw Large Radius	203.2	N/A	245.1	N/A	N/A	12.70	MM
PPC2 Radius 2 Raw Small Radius	88.90	N/A	59.05	N/A	N/A	12.70	MM
PPC2 Radius 2 Raw Large Radius	203.2	N/A	169.2	N/A	N/A	12.70	MM
PPC2 Radius 3 Raw Small Radius	88.90	N/A	135.0	N/A	N/A	12.70	MM
PPC2 Radius 3 Raw Large Radius	203.2	N/A	242.2	N/A	N/A	12.70	MM
PPC2 Radius 4 Raw Small Radius	88.90	N/A	75.27	N/A	N/A	12.70	MM
PPC2 Radius 4 Raw Large Radius	203.2	N/A	186.6	N/A	N/A	12.70	MM

Accelerator–Porosity Tool Wellsite Calibration – Detector Background

Master: 12–Jan–2007 23:16 Before: 5–Mar–2007 14:09

Near Det Bkg Cntrate	30.00	26.50	25.71	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	25.93	25.16	N/A	N/A	N/A	CPS
Array–1 Det Bkg Cntrate	30.00	26.01	25.06	N/A	N/A	N/A	CPS
Array–2 Det Bkg Cntrate	30.00	26.06	25.75	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	25.75	25.43	N/A	N/A	N/A	CPS

Accelerator–Porosity Tool Wellsite Calibration – Calibration Ratios

Master: 12–Jan–2007 23:16

Near/Far Calibration Ratio	0.9250	0.9971	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.039	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.011	N/A	N/A	N/A	N/A	

Accelerator–Porosity Tool Wellsite Calibration – Tank Check

Master: 12–Jan–2007 23:16

Array–1 Standoff Porosity	0.1175	0.1109	N/A	N/A	N/A	N/A	V/V
Array–2 Standoff Porosity	0.1175	0.1131	N/A	N/A	N/A	N/A	V/V
Average Slowing Down Time	6.000	5.901	N/A	N/A	N/A	N/A	US
Array–1 SDT Ratio Up/Down	1.000	0.9697	N/A	N/A	N/A	N/A	
Array–2 SDT Ratio Up/Down	1.000	0.9845	N/A	N/A	N/A	N/A	
Sigma Formation	2.750	2.723	N/A	N/A	N/A	N/A	M–1

Accelerator–Porosity Tool Wellsite Calibration – CCR7 signal boxes

Master: 12–Jan–2007 23:16

Near Detector Plateau Setting	1650	1728	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2061	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1968	N/A	N/A	N/A	N/A	V

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01

Before: 6–Mar–2007 11:09

HRLT M0–M1 Voltage Plus – 0	0	N/A	–317.8	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 1	0	N/A	–325.7	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 2	0	N/A	–320.0	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 3	0	N/A	–326.9	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 4	0	N/A	–316.2	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 5	0	N/A	–320.8	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 6	0	N/A	347.6	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 7	0	N/A	–322.7	N/A	N/A	9.681	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12

Before: 6–Mar–2007 11:09

HRLT M1–M2 Voltage Plus – 0	0	N/A	1751	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 1	0	N/A	1806	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 2	0	N/A	1766	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 3	0	N/A	1801	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 4	0	N/A	1740	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 5	0	N/A	1765	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 6	0	N/A	–1936	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23

Before: 6–Mar–2007 11:09

HRLT M2–M3 Voltage Plus – 0	0	N/A	1735	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 1	0	N/A	1799	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 2	0	N/A	1761	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 3	0	N/A	1801	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 4	0	N/A	1734	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 5	0	N/A	1760	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 6	0	N/A	–1916	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34

Before: 6–Mar–2007 11:09

HRLT A3–A4 Voltage Plus – 0	0	N/A	68490	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 1	0	N/A	70610	N/A	N/A	2100	UV

HRLT A3-A4 Voltage Plus - 1	0	N/A	70610	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	69450	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	71320	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	68690	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	69780	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-74180	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45

Before: 6-Mar-2007 11:09

HRLT A4-A5 Voltage Plus - 0	0	N/A	68340	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	71060	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	69750	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	71490	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	68650	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	69660	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-74690	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56

Before: 6-Mar-2007 11:09

HRLT A5-A6 Voltage Plus - 0	0	N/A	68470	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	70830	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	69620	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	71420	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	68720	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69750	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-74430	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP

Before: 6-Mar-2007 11:09

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68030	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-70740	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-69510	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-71360	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-68680	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69760	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	74270	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD

Before: 6-Mar-2007 11:09

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68090	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-70940	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-69700	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71520	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-68780	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69820	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	74500	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO

Before: 6-Mar-2007 11:09

HRLT Source Current Plus - 0	0	N/A	283.5	N/A	N/A	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	N/A	N/A	8.520	UA

High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV

Before: 6-Mar-2007 11:09

HRLT Vertical Voltage PI - 0	0	N/A	-320.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-321.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-314.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-319.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-306.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-325.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	356.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

Environment Measurement Sonde Wellsite Calibration - EMS Caliper Calibration

Before: 5-Mar-2007 14:59

Radius 1 Short Radius	101.6	N/A	99.22	N/A	N/A	5.080	MM
Radius 1 Long Radius	152.4	N/A	159.4	N/A	N/A	5.080	MM
Radius 2 Short Radius	152.4	N/A	165.6	N/A	N/A	5.080	MM
Radius 2 Long Radius	101.6	N/A	104.3	N/A	N/A	5.080	MM
Radius 3 Short Radius	101.6	N/A	94.45	N/A	N/A	5.080	MM
Radius 3 Long Radius	152.4	N/A	156.2	N/A	N/A	5.080	MM

Radius 4 Short Radius	152.4	N/A	161.6	N/A	N/A	5.080	MM
Radius 4 Long Radius	101.6	N/A	101.9	N/A	N/A	5.080	MM
Radius 5 Short Radius	101.6	N/A	95.89	N/A	N/A	5.080	MM
Radius 5 Long Radius	152.4	N/A	154.5	N/A	N/A	5.080	MM
Radius 6 Short Radius	152.4	N/A	156.3	N/A	N/A	5.080	MM
Radius 6 Long Radius	101.6	N/A	95.78	N/A	N/A	5.080	MM

General Purpose Inclinometer Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 6–Mar–2007 9:09

TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	1071	N/A	N/A	N/A	

General Purpose Inclinometer Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY

Before: 6–Mar–2007 9:09

TEMPERATURE REFERENCE :	N/A	N/A	22	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	11	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	760	N/A	N/A	N/A	

Powered Positioning Device/Caliper 1 Wellsite Calibration – PPC1 Caliper Calibration

Before: 6–Mar–2007 4:43

PPC1 Radius 1 Raw Small Radius	88.90	N/A	137.5	N/A	N/A	12.70	MM
PPC1 Radius 1 Raw Large Radius	203.2	N/A	244.4	N/A	N/A	12.70	MM
PPC1 Radius 2 Raw Small Radius	88.90	N/A	55.65	N/A	N/A	12.70	MM
PPC1 Radius 2 Raw Large Radius	203.2	N/A	168.8	N/A	N/A	12.70	MM
PPC1 Radius 3 Raw Small Radius	88.90	N/A	136.3	N/A	N/A	12.70	MM
PPC1 Radius 3 Raw Large Radius	203.2	N/A	244.0	N/A	N/A	12.70	MM
PPC1 Radius 4 Raw Small Radius	88.90	N/A	63.71	N/A	N/A	12.70	MM
PPC1 Radius 4 Raw Large Radius	203.2	N/A	178.0	N/A	N/A	12.70	MM

Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 6–Mar–2007 10:05

Gamma Ray (Jig – Bkg)	159.1	N/A	159.1	N/A	N/A	14.47	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 6–Mar–2007 9:11

EDTC Z–Axis Acceleration	9.810	N/A	9.805	N/A	N/A	N/A	M/S2
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Accelerator–Porosity Tool – Detector Plateau Settings :

Near Detector Plateau Setting 1728 V
Far Detector Plateau Setting 2061 V
Array Detector Plateau Setting 1968 V

3–D Array Induction Tool – ZAIT–B / Equipment Identification

Primary Equipment:

Rm/SP Bottom Nose

3–D Array Induction Sonde

AHRM – A

AXIS – A












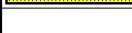














































































2

Auxiliary Equipment:

3–D Array Induction Tool – ZAIT–B Wellsite Calibration

Electronics Calibration Check – Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude MM/M	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	1.345		1.456	–174.6		0
	Before	1.345			–170.3		
1	Master	1.336		1.456	–170.2		0
	Before	1.342			–165.5		
2	Master	1.387		1.456	–177.4		0
	Before	1.387			–170.7		
3	Master	3.071		3.352	–176.6		0
	Before	3.081			–172.6		
4	Master	3.051		3.352	–172.2		0
	Before	3.051			–172.2		

4	Master	3.031		3.352	-172.3		0
	Before	3.073			-167.8		
5	Master	3.167		3.352	-179.4		0
	Before	3.175			-173.0		
6	Master	2.477		2.680	177.8		0
	Before	2.486			-178.1		
7	Master	2.461		2.680	-177.9		0
	Before	2.480			-173.3		
8	Master	2.559		2.680	175.0		0
	Before	2.566			-178.4		
9	Master	1.623		1.956	-72.00		0
	Before	1.648			-68.66		
10	Master	1.634		1.956	-60.73		0
	Before	1.677			-56.78		
11	Master	1.796		1.956	-72.15		0
	Before	1.826			-66.48		
12	Master	3.239		3.537	-174.8		0
	Before	3.240			-170.5		
13	Master	3.221		3.537	-170.5		0
	Before	3.236			-165.8		
14	Master	3.346		3.537	-177.6		0
	Before	3.344			-171.0		
15	Master	2.606		3.100	-72.38		0
	Before	2.648			-69.02		
16	Master	2.624		3.100	-61.11		0
	Before	2.694			-57.16		
17	Master	2.884		3.100	-72.56		0
	Before	2.933			-66.88		
18	Master	0.8449		0.9359	-174.3		0
	Before	0.8455			-170.0		
19	Master	0.8402		0.9359	-170.0		0
	Before	0.8443			-165.3		
20	Master	0.8631		0.9359	-177.4		0
	Before	0.8636			-170.6		
21	Master	3.452		4.081	-72.91		0
	Before	3.512			-69.65		
22	Master	3.476		4.081	-61.64		0
	Before	3.573			-57.79		
23	Master	3.821		4.081	-73.08		0
	Before	3.890			-67.48		
24	Master	1.224		1.362	-177.2		0
	Before	1.228			-173.1		
25	Master	1.217		1.362	-172.9		0
	Before	1.226			-168.4		
26	Master	1.250			-170.7		

26	Master	1.250		1.362	179.7		0
	Before	1.254			-173.8		
27	Master	3.452		4.081	-72.91		0
	Before	3.512			-69.64		
28	Master	3.476		4.081	-61.64		0
	Before	3.573			-57.78		
29	Master	3.821		4.081	-73.11		0
	Before	3.890			-67.50		
30	Master	1.223		1.362	-177.2		0
	Before	1.227			-173.1		
31	Master	1.216		1.362	-172.9		0
	Before	1.225			-168.4		
32	Master	1.250		1.362	179.7		0
	Before	1.253			-173.8		
33	Master	0.9808		1.220	-76.79		0
	Before	0.9989			-73.46		
34	Master	0.9876		1.220	-65.38		0
	Before	1.017			-61.41		
35	Master	1.071		1.220	-77.45		0
	Before	1.092			-71.74		
36	Master	1.447		1.635	176.7		0
	Before	1.453			-179.1		
37	Master	1.439		1.635	-179.0		0
	Before	1.451			-174.5		
38	Master	1.474		1.635	173.6		0
	Before	1.481			-179.9		
39	Master	1.178		1.464	-76.61		0
	Before	1.200			-73.28		
40	Master	1.186		1.464	-65.22		0
	Before	1.221			-61.24		
41	Master	1.286		1.464	-77.31		0
	Before	1.312			-71.58		
42	Master	2.090		2.353	177.4		0
	Before	2.099			-178.5		
43	Master	2.079		2.353	-178.3		0
	Before	2.096			-173.8		
44	Master	2.129		2.353	174.2		0
	Before	2.139			-179.1		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -180.0 (Minimum)	(Nominal)	Nom + 180.0 (Maximum)
Master: 29-Jan-2007 15:32				Before: 6-Mar-2007 10:03			

3-D Array Induction Tool – ZAIT-B Wellsite Calibration					
Electronics Calibration Check – Auxilliary					
Phase	Array Induction SPA Plus V	Value	Phase	Array Induction SPA Zero V	Value
Master		0.8436	Master		-0.0007702
Before		0.8439	Before		-0.0008081

0.7570 (Minimum)			0.8360 (Nominal)			0.9150 (Maximum)			-0.05000 (Minimum)			0 (Nominal)			0.05000 (Maximum)		
Phase Array Induction Temperature Plus V						Value			Phase Array Induction Temperature Zero V						Value		
Master									Master								
Before									Before								
0.8800 (Minimum)			0.9798 (Nominal)			1.076 (Maximum)			-0.05000 (Minimum)			0 (Nominal)			0.05000 (Maximum)		
Phase		Array Induction CalSig Plus V				Value		Phase		Array Induction CalSig Zero V				Value			
Master						5.015		Master						-0.01105			
Before						5.017		Before						-0.01122			
4.500 (Minimum)		5.000 (Nominal)		5.500 (Maximum)				-0.05000 (Minimum)		0 (Nominal)		0.05000 (Maximum)					
Phase		Array Induction Volt Plus V				Value		Phase		Array Induction Volt Zero V				Value			
Master						5.014		Master						-0.01105			
Before						12.04		Before						-0.02693			
2.250 (Minimum)		2.500 (Nominal)		2.750 (Maximum)				-0.05000 (Minimum)		0 (Nominal)		0.05000 (Maximum)					
Master: 29-Jan-2007 15:32								Before: 6-Mar-2007 10:03									

3-D Array Induction Tool – ZAIT-B Wellsite Calibration											
Sonde Error Correction											
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M					
0	20.92				5052						
		-2105 (Minimum)	351.3 (Nominal)	2808 (Maximum)		-33300 (Minimum)	0 (Nominal)	33300 (Maximum)			
1	754.2				8939						
		-5042 (Minimum)	500.9 (Nominal)	6044 (Maximum)		-37570 (Minimum)	0 (Nominal)	37570 (Maximum)			
2	-1325				-103.9						
		-2575 (Minimum)	-1399 (Nominal)	-222.3 (Maximum)		-2478 (Minimum)	0 (Nominal)	2478 (Maximum)			
3	33.96				2129						
		-2398 (Minimum)	-112.1 (Nominal)	2174 (Maximum)		-7332 (Minimum)	0 (Nominal)	7332 (Maximum)			
4	154.4				830.1						
		-1421 (Minimum)	124.3 (Nominal)	1670 (Maximum)		-6457 (Minimum)	0 (Nominal)	6457 (Maximum)			
5	85.67				-295.1						
		-563.7 (Minimum)	64.70 (Nominal)	693.1 (Maximum)		-619.1 (Minimum)	0 (Nominal)	619.1 (Maximum)			
6	63.31				700.2						
		-2295 (Minimum)	-206.4 (Nominal)	1882 (Maximum)		-5708 (Minimum)	0 (Nominal)	5708 (Maximum)			
7	148.3				567.0						
		-1367 (Minimum)	138.2 (Nominal)	1644 (Maximum)		-2991 (Minimum)	0 (Nominal)	2991 (Maximum)			
8	90.72				-25.51						
		-811.7 (Minimum)	141.5 (Nominal)	1095 (Maximum)		-372.1 (Minimum)	0 (Nominal)	372.1 (Maximum)			
9	-492.9				-220.7						
		-3068 (Minimum)	-97.15 (Nominal)	2874 (Maximum)		-4300 (Minimum)	0 (Nominal)	4300 (Maximum)			
10	18.30				-581.3						
		-798.0 (Minimum)	1.896 (Nominal)	801.8 (Maximum)		-12390 (Minimum)	0 (Nominal)	12390 (Maximum)			
11	-119.2				994.5						
		-770.9 (Minimum)	23.35 (Nominal)	817.6 (Maximum)		-4594 (Minimum)	0 (Nominal)	4594 (Maximum)			
12	-6.887				1033						
		-734.3 (Minimum)	14.37 (Nominal)	763.0 (Maximum)		-11510 (Minimum)	0 (Nominal)	11510 (Maximum)			
13	-394.3				-632.1						
		-2770 (Minimum)	-241.5 (Nominal)	2287 (Maximum)		-2410 (Minimum)	0 (Nominal)	2410 (Maximum)			
14	65.70				104.5						
		-241.5 (Minimum)	-241.5 (Nominal)	2287 (Maximum)		-2410 (Minimum)	0 (Nominal)	2410 (Maximum)			





































































		<div><div></div><div></div><div></div></div>							
		-1876 (Minimum)	-385.5 (Nominal)	1105 (Maximum)		-902.5 (Minimum)	0 (Nominal)	902.5 (Maximum)	
37	6.994		<div><div></div><div></div><div></div></div>			-48.20	<div><div></div><div></div><div></div></div>		
		-239.6 (Minimum)	19.09 (Nominal)	277.8 (Maximum)		-4148 (Minimum)	0 (Nominal)	4148 (Maximum)	
38	0.5654		<div><div></div><div></div><div></div></div>			122.2	<div><div></div><div></div><div></div></div>		
		-95.40 (Minimum)	8.103 (Nominal)	111.7 (Maximum)		-1441 (Minimum)	0 (Nominal)	1441 (Maximum)	
39	1.085		<div><div></div><div></div><div></div></div>			-417.3	<div><div></div><div></div><div></div></div>		
		-232.3 (Minimum)	-11.60 (Nominal)	209.1 (Maximum)		-3221 (Minimum)	0 (Nominal)	3221 (Maximum)	
40	-323.3		<div><div></div><div></div><div></div></div>			470.6	<div><div></div><div></div><div></div></div>		
		-840.1 (Minimum)	-332.1 (Nominal)	175.8 (Maximum)		-790.7 (Minimum)	0 (Nominal)	790.7 (Maximum)	
41	15.87		<div><div></div><div></div><div></div></div>			227.7	<div><div></div><div></div><div></div></div>		
		-30.50 (Minimum)	11.77 (Nominal)	54.00 (Maximum)		-881.0 (Minimum)	0 (Nominal)	881.0 (Maximum)	
42	-0.8276		<div><div></div><div></div><div></div></div>			-78.56	<div><div></div><div></div><div></div></div>		
		-1086 (Minimum)	50.67 (Nominal)	1188 (Maximum)		-1840 (Minimum)	0 (Nominal)	1840 (Maximum)	
43	0.7432		<div><div></div><div></div><div></div></div>			-45.15	<div><div></div><div></div><div></div></div>		
		-199.6 (Minimum)	-7.273 (Nominal)	185.1 (Maximum)		-1624 (Minimum)	0 (Nominal)	1624 (Maximum)	
44	47.85		<div><div></div><div></div><div></div></div>			-9.689	<div><div></div><div></div><div></div></div>		
		-1.100 (Minimum)	46.99 (Nominal)	95.10 (Maximum)		-91.40 (Minimum)	0 (Nominal)	91.40 (Maximum)	
45	-15.48		<div><div></div><div></div><div></div></div>			2082	<div><div></div><div></div><div></div></div>		
		-173.4 (Minimum)	2.034 (Nominal)	177.5 (Maximum)		-2138 (Minimum)	0 (Nominal)	2138 (Maximum)	
46	-9.021		<div><div></div><div></div><div></div></div>			368.4	<div><div></div><div></div><div></div></div>		
		-374.2 (Minimum)	-10.87 (Nominal)	352.5 (Maximum)		-2357 (Minimum)	0 (Nominal)	2357 (Maximum)	
47	-31.66		<div><div></div><div></div><div></div></div>			780.9	<div><div></div><div></div><div></div></div>		
		-183.8 (Minimum)	-15.64 (Nominal)	152.5 (Maximum)		-986.0 (Minimum)	0 (Nominal)	986.0 (Maximum)	
48	11.94		<div><div></div><div></div><div></div></div>			-416.4	<div><div></div><div></div><div></div></div>		
		-261.9 (Minimum)	2.156 (Nominal)	266.2 (Maximum)		-2252 (Minimum)	0 (Nominal)	2252 (Maximum)	
49	-17.19		<div><div></div><div></div><div></div></div>			1985	<div><div></div><div></div><div></div></div>		
		-178.2 (Minimum)	-0.6614 (Nominal)	176.9 (Maximum)		-2148 (Minimum)	0 (Nominal)	2148 (Maximum)	
50	18.09		<div><div></div><div></div><div></div></div>			139.9	<div><div></div><div></div><div></div></div>		
		-65.70 (Minimum)	8.816 (Nominal)	83.30 (Maximum)		-626.5 (Minimum)	0 (Nominal)	626.5 (Maximum)	
51	5.572		<div><div></div><div></div><div></div></div>			784.0	<div><div></div><div></div><div></div></div>		
		-166.5 (Minimum)	2.130 (Nominal)	170.8 (Maximum)		-1981 (Minimum)	0 (Nominal)	1981 (Maximum)	
52	8.875		<div><div></div><div></div><div></div></div>			-98.90	<div><div></div><div></div><div></div></div>		
		-52.80 (Minimum)	3.754 (Nominal)	60.30 (Maximum)		-1243 (Minimum)	0 (Nominal)	1243 (Maximum)	
53	59.44		<div><div></div><div></div><div></div></div>			-19.65	<div><div></div><div></div><div></div></div>		
		-235.6 (Minimum)	32.53 (Nominal)	300.6 (Maximum)		-41.10 (Minimum)	0 (Nominal)	41.10 (Maximum)	
54	-2.308		<div><div></div><div></div><div></div></div>			1017	<div><div></div><div></div><div></div></div>		
		-95.30 (Minimum)	-9.750 (Nominal)	75.80 (Maximum)		-1088 (Minimum)	0 (Nominal)	1088 (Maximum)	
55	-1.336		<div><div></div><div></div><div></div></div>			188.6	<div><div></div><div></div><div></div></div>		
		-134.6 (Minimum)	-5.565 (Nominal)	123.5 (Maximum)		-1366 (Minimum)	0 (Nominal)	1366 (Maximum)	
56	-1.396		<div><div></div><div></div><div></div></div>			388.1	<div><div></div><div></div><div></div></div>		
		-27.40 (Minimum)	-6.454 (Nominal)	14.50 (Maximum)		-540.6 (Minimum)	0 (Nominal)	540.6 (Maximum)	
57	0.9340		<div><div></div><div></div><div></div></div>			-209.3	<div><div></div><div></div><div></div></div>		
		-137.9 (Minimum)	-0.5576 (Nominal)	136.8 (Maximum)		-1274 (Minimum)	0 (Nominal)	1274 (Maximum)	
58	1.078		<div><div></div><div></div><div></div></div>			268.0	<div><div></div><div></div><div></div></div>		

		-78.10 (Minimum)	-9.827 (Nominal)	58.50 (Maximum)		-1071 (Minimum)	0 (Nominal)	1071 (Maximum)
59	6.561					72.00		
		-18.10 (Minimum)	5.923 (Nominal)	29.90 (Maximum)		-340.7 (Minimum)	0 (Nominal)	340.7 (Maximum)
60	4.802					391.0		
		-65.40 (Minimum)	0.3248 (Nominal)	66.00 (Maximum)		-1250 (Minimum)	0 (Nominal)	1250 (Maximum)
61	5.034					-48.64		
		-32.10 (Minimum)	3.359 (Nominal)	38.80 (Maximum)		-691.8 (Minimum)	0 (Nominal)	691.8 (Maximum)
62	26.23					2.136		
		-9.800 (Minimum)	27.57 (Nominal)	64.90 (Maximum)		-32.90 (Minimum)	0 (Nominal)	32.90 (Maximum)
63	-2.579					635.4		
		-56.30 (Minimum)	0.6343 (Nominal)	57.60 (Maximum)		-770.3 (Minimum)	0 (Nominal)	770.3 (Maximum)
64	29.50					-951.4		
		-86.20 (Minimum)	-0.04571 (Nominal)	86.10 (Maximum)		-1478 (Minimum)	0 (Nominal)	1478 (Maximum)
65	-15.76					180.9		
		-51.90 (Minimum)	-4.624 (Nominal)	42.60 (Maximum)		-621.1 (Minimum)	0 (Nominal)	621.1 (Maximum)
66	-19.63					918.5		
		-171.8 (Minimum)	-2.056 (Nominal)	167.7 (Maximum)		-1581 (Minimum)	0 (Nominal)	1581 (Maximum)
67	-0.2565					611.6		
		-45.00 (Minimum)	0.1900 (Nominal)	45.40 (Maximum)		-751.4 (Minimum)	0 (Nominal)	751.4 (Maximum)
68	3.726					30.84		
		-42.10 (Minimum)	3.956 (Nominal)	50.00 (Maximum)		-476.3 (Minimum)	0 (Nominal)	476.3 (Maximum)
69	-6.196					286.1		
		-27.40 (Minimum)	0.6414 (Nominal)	28.70 (Maximum)		-517.0 (Minimum)	0 (Nominal)	517.0 (Maximum)
70	-0.5899					-46.72		
		-42.00 (Minimum)	3.171 (Nominal)	48.30 (Maximum)		-935.7 (Minimum)	0 (Nominal)	935.7 (Maximum)
71	22.25					18.34		
		-87.80 (Minimum)	11.76 (Nominal)	111.3 (Maximum)		-62.10 (Minimum)	0 (Nominal)	62.10 (Maximum)
72	0.3745					262.4		
		-24.60 (Minimum)	-2.297 (Nominal)	20.00 (Maximum)		-375.5 (Minimum)	0 (Nominal)	375.5 (Maximum)
73	1.286					-472.1		
		-57.60 (Minimum)	2.100 (Nominal)	61.80 (Maximum)		-1185 (Minimum)	0 (Nominal)	1185 (Maximum)
74	-1.035					86.88		
		-12.70 (Minimum)	-1.704 (Nominal)	9.300 (Maximum)		-356.7 (Minimum)	0 (Nominal)	356.7 (Maximum)
75	-1.570					457.0		
		-78.00 (Minimum)	-3.031 (Nominal)	71.90 (Maximum)		-1247 (Minimum)	0 (Nominal)	1247 (Maximum)
76	2.299					250.6		
		-16.10 (Minimum)	-1.311 (Nominal)	13.50 (Maximum)		-374.3 (Minimum)	0 (Nominal)	374.3 (Maximum)
77	1.771					17.22		
		-12.80 (Minimum)	2.693 (Nominal)	18.20 (Maximum)		-321.8 (Minimum)	0 (Nominal)	321.8 (Maximum)
78	0.7233					139.4		
		-11.50 (Minimum)	1.215 (Nominal)	13.90 (Maximum)		-333.1 (Minimum)	0 (Nominal)	333.1 (Maximum)
79	0.7604					-23.30		
		-13.40 (Minimum)	3.431 (Nominal)	20.30 (Maximum)		-581.6 (Minimum)	0 (Nominal)	581.6 (Maximum)
80	10.68					16.27		







	10.68				16.27		
		-16.30 (Minimum)	11.00 (Nominal)	38.30 (Maximum)	-39.20 (Minimum)	0 (Nominal)	39.20 (Maximum)
81	-15.45				315.8		
		-67.80 (Minimum)	-6.064 (Nominal)	55.70 (Maximum)	-330.3 (Minimum)	0 (Nominal)	330.3 (Maximum)
82	-8.384				586.9		
		-75.70 (Minimum)	0.09571 (Nominal)	75.90 (Maximum)	-805.0 (Minimum)	0 (Nominal)	805.0 (Maximum)
83	-11.00				112.2		
		-42.90 (Minimum)	-3.401 (Nominal)	36.10 (Maximum)	-191.7 (Minimum)	0 (Nominal)	191.7 (Maximum)
84	13.94				-578.9		
		-56.30 (Minimum)	0.3271 (Nominal)	57.00 (Maximum)	-782.3 (Minimum)	0 (Nominal)	782.3 (Maximum)
85	-15.01				295.3		
		-56.50 (Minimum)	-5.537 (Nominal)	45.40 (Maximum)	-319.1 (Minimum)	0 (Nominal)	319.1 (Maximum)
86	4.540				-83.63		
		-16.30 (Minimum)	0.7314 (Nominal)	17.80 (Maximum)	-149.5 (Minimum)	0 (Nominal)	149.5 (Maximum)
87	-0.8786				7.633		
		-7.600 (Minimum)	-0.1829 (Nominal)	7.200 (Maximum)	-242.5 (Minimum)	0 (Nominal)	242.5 (Maximum)
88	2.126				-185.6		
		-10.50 (Minimum)	0.3700 (Nominal)	11.30 (Maximum)	-214.9 (Minimum)	0 (Nominal)	214.9 (Maximum)
89	3.597				20.93		
		-26.20 (Minimum)	2.383 (Nominal)	30.90 (Maximum)	-116.1 (Minimum)	0 (Nominal)	116.1 (Maximum)
90	-12.18				84.33		
		-30.60 (Minimum)	-9.587 (Nominal)	11.50 (Maximum)	-105.7 (Minimum)	0 (Nominal)	105.7 (Maximum)
91	-2.645				298.5		
		-38.50 (Minimum)	-1.329 (Nominal)	35.80 (Maximum)	-471.2 (Minimum)	0 (Nominal)	471.2 (Maximum)
92	-1.279				55.94		
		-17.00 (Minimum)	-2.254 (Nominal)	12.50 (Maximum)	-118.0 (Minimum)	0 (Nominal)	118.0 (Maximum)
93	2.192				-297.9		
		-27.10 (Minimum)	1.459 (Nominal)	30.00 (Maximum)	-441.4 (Minimum)	0 (Nominal)	441.4 (Maximum)
94	-10.83				74.61		
		-28.40 (Minimum)	-9.228 (Nominal)	10.00 (Maximum)	-100.3 (Minimum)	0 (Nominal)	100.3 (Maximum)
95	1.041				-40.80		
		-11.80 (Minimum)	1.184 (Nominal)	14.20 (Maximum)	-100.9 (Minimum)	0 (Nominal)	100.9 (Maximum)
96	0.9281				3.809		
		-4.600 (Minimum)	0.5421 (Nominal)	5.700 (Maximum)	-141.1 (Minimum)	0 (Nominal)	141.1 (Maximum)
97	0.2935				-91.97		
		-6.400 (Minimum)	0.8419 (Nominal)	8.100 (Maximum)	-179.1 (Minimum)	0 (Nominal)	179.1 (Maximum)
98	3.097				14.05		
		-29.10 (Minimum)	3.875 (Nominal)	36.80 (Maximum)	-42.70 (Minimum)	0 (Nominal)	42.70 (Maximum)
99	-41.39				152.7		
		-208.6 (Minimum)	-22.42 (Nominal)	163.7 (Maximum)	-228.8 (Minimum)	0 (Nominal)	228.8 (Maximum)
100	15.87				-416.8		
		-110.1 (Minimum)	6.030 (Nominal)	122.1 (Maximum)	-941.8 (Minimum)	0 (Nominal)	941.8 (Maximum)
101	-6.421				-42.07		
		-40.50 (Minimum)	-1.784 (Nominal)	36.90 (Maximum)	-177.8 (Minimum)	0 (Nominal)	177.8 (Maximum)
102	-11.23				-450.4		

		-11.33				430.4			
		-218.8 (Minimum)	-8.666 (Nominal)	201.5 (Maximum)		-932.5 (Minimum)	0 (Nominal)	932.5 (Maximum)	
103		-45.67				156.3			
		-201.5 (Minimum)	-21.74 (Nominal)	158.0 (Maximum)		-189.7 (Minimum)	0 (Nominal)	189.7 (Maximum)	
104		-0.1936				-17.73			
		-20.20 (Minimum)	0.1186 (Nominal)	20.50 (Maximum)		-173.1 (Minimum)	0 (Nominal)	173.1 (Maximum)	
105		1.150				-3.397			
		-13.60 (Minimum)	1.554 (Nominal)	16.70 (Maximum)		-123.5 (Minimum)	0 (Nominal)	123.5 (Maximum)	
106		-1.690				24.17			
		-6.300 (Minimum)	0.1929 (Nominal)	6.600 (Maximum)		-93.30 (Minimum)	0 (Nominal)	93.30 (Maximum)	
107		-2.731				55.88			
		-19.70 (Minimum)	-1.369 (Nominal)	17.00 (Maximum)		-145.3 (Minimum)	0 (Nominal)	145.3 (Maximum)	
108		-40.59				126.8			
		-61.80 (Minimum)	-39.44 (Nominal)	-17.10 (Maximum)		-174.6 (Minimum)	0 (Nominal)	174.6 (Maximum)	
109		3.576				-220.5			
		-28.80 (Minimum)	2.697 (Nominal)	34.20 (Maximum)		-490.4 (Minimum)	0 (Nominal)	490.4 (Maximum)	
110		-0.6722				-21.33			
		-11.70 (Minimum)	-1.231 (Nominal)	9.200 (Maximum)		-104.4 (Minimum)	0 (Nominal)	104.4 (Maximum)	
111		-3.843				234.5			
		-57.50 (Minimum)	-3.492 (Nominal)	50.50 (Maximum)		-491.5 (Minimum)	0 (Nominal)	491.5 (Maximum)	
112		-42.31				128.4			
		-67.40 (Minimum)	-39.27 (Nominal)	-11.10 (Maximum)		-150.1 (Minimum)	0 (Nominal)	150.1 (Maximum)	
113		-0.1958				-4.797			
		-10.40 (Minimum)	0.8598 (Nominal)	12.10 (Maximum)		-103.3 (Minimum)	0 (Nominal)	103.3 (Maximum)	
114		1.999				-1.614			
		-3.100 (Minimum)	2.525 (Nominal)	8.100 (Maximum)		-66.30 (Minimum)	0 (Nominal)	66.30 (Maximum)	
115		-0.4481				14.76			
		-3.200 (Minimum)	0.4010 (Nominal)	4.000 (Maximum)		-66.00 (Minimum)	0 (Nominal)	66.00 (Maximum)	
116		2.266				8.951			
		-27.70 (Minimum)	1.505 (Nominal)	30.70 (Maximum)		-57.80 (Minimum)	0 (Nominal)	57.80 (Maximum)	
Master: 29-Jan-2007 15:32									

3-D Array Induction Tool – ZAIT-B Master Calibration								
Electronics Calibration Check – Thru Cal Mag. & Phase								
Idx	Phase	Value	Thru Cal Magnitude MM/M	Nominal	Value	Thru Cal Phase DEG	DEG	Nominal
0	Master	1.345		1.456	-174.6			0
1	Master	1.336		1.456	-170.2			0
2	Master	1.387		1.456	-177.4			0
3	Master	3.071		3.352	-176.6			0
4	Master	3.051		3.352	-172.3			0
5	Master	3.167		3.352	-179.4			0
6	Master	2.477		2.680	177.8			0
7	Master	2.461		2.680	-177.9			0
8	Master	2.559		2.680	175.0			0
9	Master	1.623		1.956	-72.00			0
10	Master	1.634		1.956	-60.73			0

11	Master	1.796		1.956	-72.15		0
12	Master	3.239		3.537	-174.8		0
13	Master	3.221		3.537	-170.5		0
14	Master	3.346		3.537	-177.6		0
15	Master	2.606		3.100	-72.38		0
16	Master	2.624		3.100	-61.11		0
17	Master	2.884		3.100	-72.56		0
18	Master	0.8449		0.9359	-174.3		0
19	Master	0.8402		0.9359	-170.0		0
20	Master	0.8631		0.9359	-177.4		0
21	Master	3.452		4.081	-72.91		0
22	Master	3.476		4.081	-61.64		0
23	Master	3.821		4.081	-73.08		0
24	Master	1.224		1.362	-177.2		0
25	Master	1.217		1.362	-172.9		0
26	Master	1.250		1.362	179.7		0
27	Master	3.452		4.081	-72.91		0
28	Master	3.476		4.081	-61.64		0
29	Master	3.821		4.081	-73.11		0
30	Master	1.223		1.362	-177.2		0
31	Master	1.216		1.362	-172.9		0
32	Master	1.250		1.362	179.7		0
33	Master	0.9808		1.220	-76.79		0
34	Master	0.9876		1.220	-65.38		0
35	Master	1.071		1.220	-77.45		0
36	Master	1.447		1.635	176.7		0
37	Master	1.439		1.635	-179.0		0
38	Master	1.474		1.635	173.6		0
39	Master	1.178		1.464	-76.61		0
40	Master	1.186		1.464	-65.22		0
41	Master	1.286		1.464	-77.31		0
42	Master	2.090		2.353	177.4		0
43	Master	2.079		2.353	-178.3		0
44	Master	2.129		2.353	174.2		0
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -180.0 (Minimum)	(Nominal)	Nom + 180.0 (Maximum)

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3-D Array Induction Tool – ZAIT-B Master Calibration							
Electronics Calibration Check – Auxilliary							
Phase	Array Induction SPA Plus V		Value	Phase	Array Induction SPA Zero V		Value
Master			0.8436	Master			−0.0007702
	0.7570 (Minimum)	0.8360 (Nominal)	0.9150 (Maximum)		−0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Phase	Array Induction Temperature Plus V		Value	Phase	Array Induction Temperature Zero V		Value
Master			0.9906	Master			−0.001124
	0.8800 (Minimum)	0.9798 (Nominal)	1.076 (Maximum)		−0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Phase	Array Induction CalSig Plus V		Value	Phase	Array Induction CalSig Zero V		Value
							

Master		5.015	Master		-0.01105		
4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)				
Phase	Array Induction Volt Plus V		Value	Phase	Array Induction Volt Zero V		Value
Master	<div>EXCEEDS LIMIT</div>		5.014	Master			-0.01105
2.250 (Minimum) 2.500 (Nominal) 2.750 (Maximum)			-0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)				
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3-D Array Induction Tool – ZAIT-B Master Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M		
0	20.92				5052			
		-2105 (Minimum)	351.3 (Nominal)	2808 (Maximum)		-33300 (Minimum)	0 (Nominal)	33300 (Maximum)
1	754.2				8939			
		-5042 (Minimum)	500.9 (Nominal)	6044 (Maximum)		-37570 (Minimum)	0 (Nominal)	37570 (Maximum)
2	-1325				-103.9			
		-2575 (Minimum)	-1399 (Nominal)	-222.3 (Maximum)		-2478 (Minimum)	0 (Nominal)	2478 (Maximum)
3	33.96				2129			
		-2398 (Minimum)	-112.1 (Nominal)	2174 (Maximum)		-7332 (Minimum)	0 (Nominal)	7332 (Maximum)
4	154.4				830.1			
		-1421 (Minimum)	124.3 (Nominal)	1670 (Maximum)		-6457 (Minimum)	0 (Nominal)	6457 (Maximum)
5	85.67				-295.1			
		-563.7 (Minimum)	64.70 (Nominal)	693.1 (Maximum)		-619.1 (Minimum)	0 (Nominal)	619.1 (Maximum)
6	63.31				700.2			
		-2295 (Minimum)	-206.4 (Nominal)	1882 (Maximum)		-5708 (Minimum)	0 (Nominal)	5708 (Maximum)
7	148.3				567.0			
		-1367 (Minimum)	138.2 (Nominal)	1644 (Maximum)		-2991 (Minimum)	0 (Nominal)	2991 (Maximum)
8	90.72				-25.51			
		-811.7 (Minimum)	141.5 (Nominal)	1095 (Maximum)		-372.1 (Minimum)	0 (Nominal)	372.1 (Maximum)
9	-492.9				-220.7			
		-3068 (Minimum)	-97.15 (Nominal)	2874 (Maximum)		-4300 (Minimum)	0 (Nominal)	4300 (Maximum)
10	18.30				-581.3			
		-798.0 (Minimum)	1.896 (Nominal)	801.8 (Maximum)		-12390 (Minimum)	0 (Nominal)	12390 (Maximum)
11	-119.2				994.5			
		-770.9 (Minimum)	23.35 (Nominal)	817.6 (Maximum)		-4594 (Minimum)	0 (Nominal)	4594 (Maximum)
12	-6.887				1033			
		-734.3 (Minimum)	14.37 (Nominal)	763.0 (Maximum)		-11510 (Minimum)	0 (Nominal)	11510 (Maximum)
13	-394.3				-632.1			
		-2770 (Minimum)	-241.5 (Nominal)	2287 (Maximum)		-2410 (Minimum)	0 (Nominal)	2410 (Maximum)
14	65.79				101.5			
		-570.4 (Minimum)	31.47 (Nominal)	633.4 (Maximum)		-4653 (Minimum)	0 (Nominal)	4653 (Maximum)
15	52.97				-554.7			
		-2241 (Minimum)	-108.3 (Nominal)	2024 (Maximum)		-5251 (Minimum)	0 (Nominal)	5251 (Maximum)
16	87.06				-705.2			
		-1029 (Minimum)	43.50 (Nominal)	1116 (Maximum)		-6660 (Minimum)	0 (Nominal)	6660 (Maximum)
17	-85.69				221.6			
		-471.1 (Minimum)	-41.64 (Nominal)	387.8 (Maximum)		-287.3 (Minimum)	0 (Nominal)	287.3 (Maximum)

18	−264.4				−380.3		
		−3236 (Minimum)	−34.30 (Nominal)	3167 (Maximum)	−1971 (Minimum)	0 (Nominal)	1971 (Maximum)
19	2.997				−278.9		
		−508.2 (Minimum)	−31.06 (Nominal)	446.1 (Maximum)	−8843 (Minimum)	0 (Nominal)	8843 (Maximum)
20	−67.21				485.0		
		−990.0 (Minimum)	78.40 (Nominal)	1147 (Maximum)	−2886 (Minimum)	0 (Nominal)	2886 (Maximum)
21	−2.146				513.5		
		−332.1 (Minimum)	27.84 (Nominal)	387.8 (Maximum)	−7605 (Minimum)	0 (Nominal)	7605 (Maximum)
22	−171.0				−557.7		
		−1710 (Minimum)	−171.8 (Nominal)	1367 (Maximum)	−1006 (Minimum)	0 (Nominal)	1006 (Maximum)
23	2.315				48.64		
		−700.5 (Minimum)	−7.184 (Nominal)	686.2 (Maximum)	−2778 (Minimum)	0 (Nominal)	2778 (Maximum)
24	43.68				−300.7		
		−2238 (Minimum)	−131.8 (Nominal)	1975 (Maximum)	−4019 (Minimum)	0 (Nominal)	4019 (Maximum)
25	57.55				−369.9		
		−888.1 (Minimum)	60.98 (Nominal)	1010 (Maximum)	−3802 (Minimum)	0 (Nominal)	3802 (Maximum)
26	−78.64				74.67		
		−568.8 (Minimum)	−98.79 (Nominal)	371.2 (Maximum)	−150.9 (Minimum)	0 (Nominal)	150.9 (Maximum)
27	−324.3				722.8		
		−2660 (Minimum)	−247.8 (Nominal)	2164 (Maximum)	−1619 (Minimum)	0 (Nominal)	1619 (Maximum)
28	6.777				−93.67		
		−311.9 (Minimum)	19.89 (Nominal)	351.7 (Maximum)	−4748 (Minimum)	0 (Nominal)	4748 (Maximum)
29	−20.82				251.6		
		−238.9 (Minimum)	−0.7571 (Nominal)	237.4 (Maximum)	−1927 (Minimum)	0 (Nominal)	1927 (Maximum)
30	11.65				−837.1		
		−263.8 (Minimum)	−8.173 (Nominal)	247.5 (Maximum)	−3768 (Minimum)	0 (Nominal)	3768 (Maximum)
31	−333.3				829.5		
		−1851 (Minimum)	−192.8 (Nominal)	1465 (Maximum)	−1400 (Minimum)	0 (Nominal)	1400 (Maximum)
32	48.80				442.1		
		−186.8 (Minimum)	22.62 (Nominal)	232.0 (Maximum)	−1526 (Minimum)	0 (Nominal)	1526 (Maximum)
33	5.421				−174.6		
		−1101 (Minimum)	55.12 (Nominal)	1211 (Maximum)	−3024 (Minimum)	0 (Nominal)	3024 (Maximum)
34	−1.054				−100.0		
		−186.5 (Minimum)	−4.793 (Nominal)	176.9 (Maximum)	−2838 (Minimum)	0 (Nominal)	2838 (Maximum)
35	124.1				−78.95		
		−462.5 (Minimum)	63.86 (Nominal)	590.2 (Maximum)	−107.3 (Minimum)	0 (Nominal)	107.3 (Maximum)
36	−319.1				421.2		
		−1876 (Minimum)	−385.5 (Nominal)	1105 (Maximum)	−902.5 (Minimum)	0 (Nominal)	902.5 (Maximum)
37	6.994				−48.20		
		−239.6 (Minimum)	19.09 (Nominal)	277.8 (Maximum)	−4148 (Minimum)	0 (Nominal)	4148 (Maximum)
38	0.5654				122.2		
		−95.40 (Minimum)	8.103 (Nominal)	111.7 (Maximum)	−1441 (Minimum)	0 (Nominal)	1441 (Maximum)
39	1.085				−417.3		
		−232.3 (Minimum)	−11.60 (Nominal)	209.1 (Maximum)	−3221 (Minimum)	0 (Nominal)	3221 (Maximum)

40	−323.3		470.6	
		<div><div>−840.1</div><div>(Minimum)</div></div> <div><div>−332.1</div><div>(Nominal)</div></div> <div><div>175.8</div><div>(Maximum)</div></div>		<div><div>−790.7</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>790.7</div><div>(Maximum)</div></div>
41	15.87		227.7	
		<div><div>−30.50</div><div>(Minimum)</div></div> <div><div>11.77</div><div>(Nominal)</div></div> <div><div>54.00</div><div>(Maximum)</div></div>		<div><div>−881.0</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>881.0</div><div>(Maximum)</div></div>
42	−0.8276		−78.56	
		<div><div>−1086</div><div>(Minimum)</div></div> <div><div>50.67</div><div>(Nominal)</div></div> <div><div>1188</div><div>(Maximum)</div></div>		<div><div>−1840</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1840</div><div>(Maximum)</div></div>
43	0.7432		−45.15	
		<div><div>−199.6</div><div>(Minimum)</div></div> <div><div>−7.273</div><div>(Nominal)</div></div> <div><div>185.1</div><div>(Maximum)</div></div>		<div><div>−1624</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1624</div><div>(Maximum)</div></div>
44	47.85		−9.689	
		<div><div>−1.100</div><div>(Minimum)</div></div> <div><div>46.99</div><div>(Nominal)</div></div> <div><div>95.10</div><div>(Maximum)</div></div>		<div><div>−91.40</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>91.40</div><div>(Maximum)</div></div>
45	−15.48		2082	
		<div><div>−173.4</div><div>(Minimum)</div></div> <div><div>2.034</div><div>(Nominal)</div></div> <div><div>177.5</div><div>(Maximum)</div></div>		<div><div>−2138</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>2138</div><div>(Maximum)</div></div>
46	−9.021		368.4	
		<div><div>−374.2</div><div>(Minimum)</div></div> <div><div>−10.87</div><div>(Nominal)</div></div> <div><div>352.5</div><div>(Maximum)</div></div>		<div><div>−2357</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>2357</div><div>(Maximum)</div></div>
47	−31.66		780.9	
		<div><div>−183.8</div><div>(Minimum)</div></div> <div><div>−15.64</div><div>(Nominal)</div></div> <div><div>152.5</div><div>(Maximum)</div></div>		<div><div>−986.0</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>986.0</div><div>(Maximum)</div></div>
48	11.94		−416.4	
		<div><div>−261.9</div><div>(Minimum)</div></div> <div><div>2.156</div><div>(Nominal)</div></div> <div><div>266.2</div><div>(Maximum)</div></div>		<div><div>−2252</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>2252</div><div>(Maximum)</div></div>
49	−17.19		1985	
		<div><div>−178.2</div><div>(Minimum)</div></div> <div><div>−0.6614</div><div>(Nominal)</div></div> <div><div>176.9</div><div>(Maximum)</div></div>		<div><div>−2148</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>2148</div><div>(Maximum)</div></div>
50	18.09		139.9	
		<div><div>−65.70</div><div>(Minimum)</div></div> <div><div>8.816</div><div>(Nominal)</div></div> <div><div>83.30</div><div>(Maximum)</div></div>		<div><div>−626.5</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>626.5</div><div>(Maximum)</div></div>
51	5.572		784.0	
		<div><div>−166.5</div><div>(Minimum)</div></div> <div><div>2.130</div><div>(Nominal)</div></div> <div><div>170.8</div><div>(Maximum)</div></div>		<div><div>−1981</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1981</div><div>(Maximum)</div></div>
52	8.875		−98.90	
		<div><div>−52.80</div><div>(Minimum)</div></div> <div><div>3.754</div><div>(Nominal)</div></div> <div><div>60.30</div><div>(Maximum)</div></div>		<div><div>−1243</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1243</div><div>(Maximum)</div></div>
53	59.44		−19.65	
		<div><div>−235.6</div><div>(Minimum)</div></div> <div><div>32.53</div><div>(Nominal)</div></div> <div><div>300.6</div><div>(Maximum)</div></div>		<div><div>−41.10</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>41.10</div><div>(Maximum)</div></div>
54	−2.308		1017	
		<div><div>−95.30</div><div>(Minimum)</div></div> <div><div>−9.750</div><div>(Nominal)</div></div> <div><div>75.80</div><div>(Maximum)</div></div>		<div><div>−1088</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1088</div><div>(Maximum)</div></div>
55	−1.336		188.6	
		<div><div>−134.6</div><div>(Minimum)</div></div> <div><div>−5.565</div><div>(Nominal)</div></div> <div><div>123.5</div><div>(Maximum)</div></div>		<div><div>−1366</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1366</div><div>(Maximum)</div></div>
56	−1.396		388.1	
		<div><div>−27.40</div><div>(Minimum)</div></div> <div><div>−6.454</div><div>(Nominal)</div></div> <div><div>14.50</div><div>(Maximum)</div></div>		<div><div>−540.6</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>540.6</div><div>(Maximum)</div></div>
57	0.9340		−209.3	
		<div><div>−137.9</div><div>(Minimum)</div></div> <div><div>−0.5576</div><div>(Nominal)</div></div> <div><div>136.8</div><div>(Maximum)</div></div>		<div><div>−1274</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1274</div><div>(Maximum)</div></div>
58	1.078		968.0	
		<div><div>−78.10</div><div>(Minimum)</div></div> <div><div>−9.827</div><div>(Nominal)</div></div> <div><div>58.50</div><div>(Maximum)</div></div>		<div><div>−1071</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1071</div><div>(Maximum)</div></div>
59	6.561		72.00	
		<div><div>−18.10</div><div>(Minimum)</div></div> <div><div>5.923</div><div>(Nominal)</div></div> <div><div>29.90</div><div>(Maximum)</div></div>		<div><div>−340.7</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>340.7</div><div>(Maximum)</div></div>
60	4.802		391.0	
		<div><div>−65.40</div><div>(Minimum)</div></div> <div><div>0.3248</div><div>(Nominal)</div></div> <div><div>66.00</div><div>(Maximum)</div></div>		<div><div>−1250</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>1250</div><div>(Maximum)</div></div>
61	5.034		−48.64	
		<div><div>−32.10</div><div>(Minimum)</div></div> <div><div>3.359</div><div>(Nominal)</div></div> <div><div>38.80</div><div>(Maximum)</div></div>		<div><div>−691.8</div><div>(Minimum)</div></div> <div><div>0</div><div>(Nominal)</div></div> <div><div>691.8</div><div>(Maximum)</div></div>

62	26.23				2.136			
		−9.800 (Minimum)	27.57 (Nominal)	64.90 (Maximum)		−32.90 (Minimum)	0 (Nominal)	32.90 (Maximum)
63	−2.579				635.4			
		−56.30 (Minimum)	0.6343 (Nominal)	57.60 (Maximum)		−770.3 (Minimum)	0 (Nominal)	770.3 (Maximum)
64	29.50				−951.4			
		−86.20 (Minimum)	−0.04571 (Nominal)	86.10 (Maximum)		−1478 (Minimum)	0 (Nominal)	1478 (Maximum)
65	−15.76				180.9			
		−51.90 (Minimum)	−4.624 (Nominal)	42.60 (Maximum)		−621.1 (Minimum)	0 (Nominal)	621.1 (Maximum)
66	−19.63				918.5			
		−171.8 (Minimum)	−2.056 (Nominal)	167.7 (Maximum)		−1581 (Minimum)	0 (Nominal)	1581 (Maximum)
67	−0.2565				611.6			
		−45.00 (Minimum)	0.1900 (Nominal)	45.40 (Maximum)		−751.4 (Minimum)	0 (Nominal)	751.4 (Maximum)
68	3.726				30.84			
		−42.10 (Minimum)	3.956 (Nominal)	50.00 (Maximum)		−476.3 (Minimum)	0 (Nominal)	476.3 (Maximum)
69	−6.196				286.1			
		−27.40 (Minimum)	0.6414 (Nominal)	28.70 (Maximum)		−517.0 (Minimum)	0 (Nominal)	517.0 (Maximum)
70	−0.5899				−46.72			
		−42.00 (Minimum)	3.171 (Nominal)	48.30 (Maximum)		−935.7 (Minimum)	0 (Nominal)	935.7 (Maximum)
71	22.25				18.34			
		−87.80 (Minimum)	11.76 (Nominal)	111.3 (Maximum)		−62.10 (Minimum)	0 (Nominal)	62.10 (Maximum)
72	0.3745				262.4			
		−24.60 (Minimum)	−2.297 (Nominal)	20.00 (Maximum)		−375.5 (Minimum)	0 (Nominal)	375.5 (Maximum)
73	1.286				−472.1			
		−57.60 (Minimum)	2.100 (Nominal)	61.80 (Maximum)		−1185 (Minimum)	0 (Nominal)	1185 (Maximum)
74	−1.035				86.88			
		−12.70 (Minimum)	−1.704 (Nominal)	9.300 (Maximum)		−356.7 (Minimum)	0 (Nominal)	356.7 (Maximum)
75	−1.570				457.0			
		−78.00 (Minimum)	−3.031 (Nominal)	71.90 (Maximum)		−1247 (Minimum)	0 (Nominal)	1247 (Maximum)
76	2.299				250.6			
		−16.10 (Minimum)	−1.311 (Nominal)	13.50 (Maximum)		−374.3 (Minimum)	0 (Nominal)	374.3 (Maximum)
77	1.771				17.22			
		−12.80 (Minimum)	2.693 (Nominal)	18.20 (Maximum)		−321.8 (Minimum)	0 (Nominal)	321.8 (Maximum)
78	0.7233				139.4			
		−11.50 (Minimum)	1.215 (Nominal)	13.90 (Maximum)		−333.1 (Minimum)	0 (Nominal)	333.1 (Maximum)
79	0.7604				−23.30			
		−13.40 (Minimum)	3.431 (Nominal)	20.30 (Maximum)		−581.6 (Minimum)	0 (Nominal)	581.6 (Maximum)
80	10.68				16.27			
		−16.30 (Minimum)	11.00 (Nominal)	38.30 (Maximum)		−39.20 (Minimum)	0 (Nominal)	39.20 (Maximum)
81	−15.45				315.8			
		−67.80 (Minimum)	−6.064 (Nominal)	55.70 (Maximum)		−330.3 (Minimum)	0 (Nominal)	330.3 (Maximum)
82	−8.384				586.9			
		−75.70 (Minimum)	0.09571 (Nominal)	75.90 (Maximum)		−805.0 (Minimum)	0 (Nominal)	805.0 (Maximum)
83	−11.00				112.2			
		−42.90 (Minimum)	−3.401 (Nominal)	36.10 (Maximum)		−191.7 (Minimum)	0 (Nominal)	191.7 (Maximum)

84	13.94				−578.9			
		−56.30 (Minimum)	0.3271 (Nominal)	57.00 (Maximum)		−782.3 (Minimum)	0 (Nominal)	782.3 (Maximum)
85	−15.01				295.3			
		−56.50 (Minimum)	−5.537 (Nominal)	45.40 (Maximum)		−319.1 (Minimum)	0 (Nominal)	319.1 (Maximum)
86	4.540				−83.63			
		−16.30 (Minimum)	0.7314 (Nominal)	17.80 (Maximum)		−149.5 (Minimum)	0 (Nominal)	149.5 (Maximum)
87	−0.8786				7.633			
		−7.600 (Minimum)	−0.1829 (Nominal)	7.200 (Maximum)		−242.5 (Minimum)	0 (Nominal)	242.5 (Maximum)
88	2.126				−185.6			
		−10.50 (Minimum)	0.3700 (Nominal)	11.30 (Maximum)		−214.9 (Minimum)	0 (Nominal)	214.9 (Maximum)
89	3.597				20.93			
		−26.20 (Minimum)	2.383 (Nominal)	30.90 (Maximum)		−116.1 (Minimum)	0 (Nominal)	116.1 (Maximum)
90	−12.18				84.33			
		−30.60 (Minimum)	−9.587 (Nominal)	11.50 (Maximum)		−105.7 (Minimum)	0 (Nominal)	105.7 (Maximum)
91	−2.645				298.5			
		−38.50 (Minimum)	−1.329 (Nominal)	35.80 (Maximum)		−471.2 (Minimum)	0 (Nominal)	471.2 (Maximum)
92	−1.279				55.94			
		−17.00 (Minimum)	−2.254 (Nominal)	12.50 (Maximum)		−118.0 (Minimum)	0 (Nominal)	118.0 (Maximum)
93	2.192				−297.9			
		−27.10 (Minimum)	1.459 (Nominal)	30.00 (Maximum)		−441.4 (Minimum)	0 (Nominal)	441.4 (Maximum)
94	−10.83				74.61			
		−28.40 (Minimum)	−9.228 (Nominal)	10.00 (Maximum)		−100.3 (Minimum)	0 (Nominal)	100.3 (Maximum)
95	1.041				−40.80			
		−11.80 (Minimum)	1.184 (Nominal)	14.20 (Maximum)		−100.9 (Minimum)	0 (Nominal)	100.9 (Maximum)
96	0.9281				3.809			
		−4.600 (Minimum)	0.5421 (Nominal)	5.700 (Maximum)		−141.1 (Minimum)	0 (Nominal)	141.1 (Maximum)
97	0.2935				−91.97			
		−6.400 (Minimum)	0.8419 (Nominal)	8.100 (Maximum)		−179.1 (Minimum)	0 (Nominal)	179.1 (Maximum)
98	3.097				14.05			
		−29.10 (Minimum)	3.875 (Nominal)	36.80 (Maximum)		−42.70 (Minimum)	0 (Nominal)	42.70 (Maximum)
99	−41.39				152.7			
		−208.6 (Minimum)	−22.42 (Nominal)	163.7 (Maximum)		−228.8 (Minimum)	0 (Nominal)	228.8 (Maximum)
100	15.87				−416.8			
		−110.1 (Minimum)	6.030 (Nominal)	122.1 (Maximum)		−941.8 (Minimum)	0 (Nominal)	941.8 (Maximum)
101	−6.421				−42.07			
		−40.50 (Minimum)	−1.784 (Nominal)	36.90 (Maximum)		−177.8 (Minimum)	0 (Nominal)	177.8 (Maximum)
102	−11.33				450.4			
		−218.8 (Minimum)	−8.666 (Nominal)	201.5 (Maximum)		−932.5 (Minimum)	0 (Nominal)	932.5 (Maximum)
103	−45.67				156.3			
		−201.5 (Minimum)	−21.74 (Nominal)	158.0 (Maximum)		−189.7 (Minimum)	0 (Nominal)	189.7 (Maximum)
104	−0.1936				−17.73			
		−20.20 (Minimum)	0.1186 (Nominal)	20.50 (Maximum)		−173.1 (Minimum)	0 (Nominal)	173.1 (Maximum)
105	1.150				−3.397			
		−13.60 (Minimum)	1.554 (Nominal)	16.70 (Maximum)		−123.5 (Minimum)	0 (Nominal)	123.5 (Maximum)

106	-1.690		24.17			
	-6.300 (Minimum)	0.1929 (Nominal)	6.600 (Maximum)	-93.30 (Minimum)	0 (Nominal)	93.30 (Maximum)
107	-2.731		55.88			
	-19.70 (Minimum)	-1.369 (Nominal)	17.00 (Maximum)	-145.3 (Minimum)	0 (Nominal)	145.3 (Maximum)
108	-40.59		126.8			
	-61.80 (Minimum)	-39.44 (Nominal)	-17.10 (Maximum)	-174.6 (Minimum)	0 (Nominal)	174.6 (Maximum)
109	3.576		-220.5			
	-28.80 (Minimum)	2.697 (Nominal)	34.20 (Maximum)	-490.4 (Minimum)	0 (Nominal)	490.4 (Maximum)
110	-0.6722		-21.33			
	-11.70 (Minimum)	-1.231 (Nominal)	9.200 (Maximum)	-104.4 (Minimum)	0 (Nominal)	104.4 (Maximum)
111	-3.843		234.5			
	-57.50 (Minimum)	-3.492 (Nominal)	50.50 (Maximum)	-491.5 (Minimum)	0 (Nominal)	491.5 (Maximum)
112	-42.31		128.4			
	-67.40 (Minimum)	-39.27 (Nominal)	-11.10 (Maximum)	-150.1 (Minimum)	0 (Nominal)	150.1 (Maximum)
113	-0.1958		-4.797			
	-10.40 (Minimum)	0.8598 (Nominal)	12.10 (Maximum)	-103.3 (Minimum)	0 (Nominal)	103.3 (Maximum)
114	1.999		-1.614			
	-3.100 (Minimum)	2.525 (Nominal)	8.100 (Maximum)	-66.30 (Minimum)	0 (Nominal)	66.30 (Maximum)
115	-0.4481		14.76			
	-3.200 (Minimum)	0.4010 (Nominal)	4.000 (Maximum)	-66.00 (Minimum)	0 (Nominal)	66.00 (Maximum)
116	2.266		8.951			
	-27.70 (Minimum)	1.505 (Nominal)	30.70 (Maximum)	-57.80 (Minimum)	0 (Nominal)	57.80 (Maximum)

Master: 29-Jan-2007 15:32

Master: 29-Jan-2007 15:32









Powered Positioning Device/Caliper 2 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper
PPC2 Caliper 40 Extension

PPC2 – B
PPC_ –

Auxiliary Equipment:

Powered Positioning Device/Caliper 2 Wellsite Calibration									
PPC2 Caliper Calibration									
Phase	PC2 Radius 1 Raw Small Radius MM			Value	Phase	PC2 Radius 1 Raw Large Radius MM			Value
Before				139.6	Before				245.1
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Phase	PC2 Radius 2 Raw Small Radius MM			Value	Phase	PC2 Radius 2 Raw Large Radius MM			Value
Before				59.05	Before				169.2
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Phase	PC2 Radius 3 Raw Small Radius MM			Value	Phase	PC2 Radius 3 Raw Large Radius MM			Value
Before				135.0	Before				242.2
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Phase	PC2 Radius 4 Raw Small Radius MM			Value	Phase	PC2 Radius 4 Raw Large Radius MM			Value
Before				75.27	Before				186.6
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)			154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Before: 5-Mar-2007 19:34									

Before: 5-Mar-2007 19:34

Accelerator–Porosity Tool / Equipment Identification

Primary Equipment:

Accelerator–Porosity Sonde
APS Minitron

APS – C
MNTR – F

218
5329

218
5890

Auxiliary Equipment:

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

APH – AC
SFT – 178
SFT – 281

121
53
12673

121
53
12673

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				26.50	Master				25.93	Master				26.01
Before				25.71	Before				25.16	Before				25.06
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				26.06	Master				25.75					
Before				25.75	Before				25.43					
1.000 (Minimum)30.00 (Nominal)50.00 (Maximum)					1.000 (Minimum)30.00 (Nominal)50.00 (Maximum)									
Master: 12–Jan–2007 23:16Before: 5–Mar–2007 14:09														

Master: 12–Jan–2007 23:16

Before: 5–Mar–2007 14:09

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			0.9971	Master			1.039	Master			1.011
	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: 12–Jan–2007 23:16											

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Accelerator–Porosity Tool Wellsite Calibration													
Tank Check													
Phase	Array–1 Standoff Porosity V/V			Value	Phase	Array–2 Standoff Porosity V/V			Value	Phase	Average Slowing Down Time US		Value
Master				0.1109	Master				0.1131	Master			5.901
	0.09900 (Minimum)	0.1175 (Nominal)	0.1360 (Maximum)		0.09900 (Minimum)	0.1175 (Nominal)	0.1360 (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 M–1		Value
Master				0.9697	Master				0.9845	Master			2.723
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		2.000 (Minimum)	2.750 (Nominal)	3.500 (Maximum)		
Master: 12–Jan–2007 23:16													

Master: 12–Jan–2007 23:16

Accelerator–Porosity Tool Master Calibration										
Detector Calibration										
Phase	Near/Far Calibration Ratio		Value	Phase	Near/Array Calibration Ratio		Value	Phase	Near/Array Cal Ratio Up/Down	Value
Master			0.9971	Master			1.039	Master		1.011
0.8000 0.9250 1.050				0.9000 1.030 1.170				0.9700 1.000 1.030		
(Minimum) (Nominal) (Maximum)				(Minimum) (Nominal) (Maximum)				(Minimum) (Nominal) (Maximum)		
Master: 12–Jan–2007 23:16										

Master: 12–Jan–2007 23:16

Accelerator–Porosity Tool Master Calibration														
Tank Check														
Phase	Array–1 Standoff Porosity V/V			Value	Phase	Array–2 Standoff Porosity V/V			Value	Phase	Average Slowing Down Time US			Value
Master				0.1109	Master				0.1131	Master				5.901
0.09900 (Minimum) 0.1175 (Nominal) 0.1360 (Maximum)					0.09900 (Minimum) 0.1175 (Nominal) 0.1360 (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 M–1			Value
Master				0.9697	Master				0.9845	Master				2.723
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)					0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)					2.000 (Minimum) 2.750 (Nominal) 3.500 (Maximum)				
Master: 12–Jan–2007 23:16														









Master: 12–Jan–2007 23:16









HRLH – B
HRLC – B
HRUH – B
HRUC – B









Before: 6-Mar-2007 11:09





Before: 6-Mar-2007 11:09

Before: 6-Mar-2007 11:09

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
1	Before		70610	70000	82360	60900
2	Before		69450	70000	82360	60900
3	Before		71320	70000	82360	60900
4	Before		68690	70000	82360	60900
5	Before		69780	70000	82360	60900
6	Before		-74180	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				
Before: 6–Mar–2007 11:09						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68340	70000	82360	60900
1	Before		71060	70000	82360	60900
2	Before		69750	70000	82360	60900
3	Before		71490	70000	82360	60900
4	Before		68650	70000	82360	60900
5	Before		69660	70000	82360	60900
6	Before		-74690	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				
Before: 6–Mar–2007 11:09						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68470	70000	82360	60900
1	Before		70830	70000	82360	60900
2	Before		69620	70000	82360	60900
3	Before		71420	70000	82360	60900
4	Before		68720	70000	82360	60900
5	Before		69750	70000	82360	60900
6	Before		-74430	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				
Before: 6–Mar–2007 11:09						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68030	-70000	-60900	-82360
1	Before		-70740	-70000	-60900	-82360
2	Before		-69510	-70000	-60900	-82360
3	Before		-71360	-70000	-60900	-82360

	Before		-68680	-70000	-60900	-82360
5	Before		-69760	-70000	-60900	-82360
6	Before		74270	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						

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High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VBD							
Idx	Phase	HRLT Bridle#9–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68090	-70000	-60900	-82360	
1	Before		-70940	-70000	-60900	-82360	
2	Before		-69700	-70000	-60900	-82360	
3	Before		-71520	-70000	-60900	-82360	
4	Before		-68780	-70000	-60900	-82360	
5	Before		-69820	-70000	-60900	-82360	
6	Before		74500	70000	82360	60900	
7	Before		-70000	-70000	-60900	-82360	
(Minimum) (Nominal) (Maximum)							

Before: 6-Mar-2007 11:09

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT ISO							
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum	
0	Before		283.5	284.0	334.1	247.0	
1	Before		281.1	281.1	330.7	244.4	
2	Before		281.1	281.1	330.7	244.4	
3	Before		281.1	281.1	330.7	244.4	
4	Before		281.1	281.1	330.7	244.4	
5	Before		281.1	281.1	330.7	244.4	
6	Before		281.1	281.1	330.7	244.4	
7	Before		281.1	281.1	330.7	244.4	
(Minimum) (Nominal) (Maximum)							

Before: 6-Mar-2007 11:09

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT MV							
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-320.2	-322.7	-280.7	-379.7	
1	Before		-321.5	-322.7	-280.7	-379.7	
2	Before		-314.6	-322.7	-280.7	-379.7	
3	Before		-319.6	-322.7	-280.7	-379.7	
4	Before		-306.4	-322.7	-280.7	-379.7	
5	Before		-325.7	-322.7	-280.7	-379.7	
6	Before		356.3	322.7	379.7	280.7	
7	Before		-322.7	-322.7	-280.7	-379.7	
(Minimum) (Nominal) (Maximum)							

Before: 6-Mar-2007 11:09













Environment Measurement Sonde / Equipment Identification

Primary Equipment:

EMS Mechanical	EMM – B	8102	8102
EMS Cartridge	EMC – B	8035	8035
EMS Adaptor	EMA – B	8018	8018
Resistivity Meter	RES –		

Auxiliary Equipment:

Electronics Cartridge Housing	ECH – KH	8045	8045
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Environment Measurement Sonde Wellsite Calibration							
EMS Caliper Calibration							
Phase	Radius 1 Short Radius MM		Value	Phase	Radius 1 Long Radius MM		Value
Before			99.22	Before			159.4
	76.20 (Minimum)	101.6 (Nominal)	127.0 (Maximum)		127.0 (Minimum)	152.4 (Nominal)	177.8 (Maximum)
Phase	Radius 2 Short Radius MM		Value	Phase	Radius 2 Long Radius MM		Value
Before			165.6	Before			104.3
	127.0 (Minimum)	152.4 (Nominal)	177.8 (Maximum)		76.20 (Minimum)	101.6 (Nominal)	127.0 (Maximum)
Phase	Radius 3 Short Radius MM		Value	Phase	Radius 3 Long Radius MM		Value
Before			94.45	Before			156.2
	76.20 (Minimum)	101.6 (Nominal)	127.0 (Maximum)		127.0 (Minimum)	152.4 (Nominal)	177.8 (Maximum)
Phase	Radius 4 Short Radius MM		Value	Phase	Radius 4 Long Radius MM		Value
Before			161.6	Before			101.9
	127.0 (Minimum)	152.4 (Nominal)	177.8 (Maximum)		76.20 (Minimum)	101.6 (Nominal)	127.0 (Maximum)
Phase	Radius 5 Short Radius MM		Value	Phase	Radius 5 Long Radius MM		Value
Before			95.89	Before			154.5
	76.20 (Minimum)	101.6 (Nominal)	127.0 (Maximum)		127.0 (Minimum)	152.4 (Nominal)	177.8 (Maximum)
Phase	Radius 6 Short Radius MM		Value	Phase	Radius 6 Long Radius MM		Value
Before			156.3	Before			95.78
	127.0 (Minimum)	152.4 (Nominal)	177.8 (Maximum)		76.20 (Minimum)	101.6 (Nominal)	127.0 (Maximum)
Before: 5-Mar-2007 14:59							

Before: 5-Mar-2007 14:59

General Purpose Inclinator / Equipment Identification

Primary Equipment:

GPIT Cartridge – C	GPIC – C
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Auxiliary Equipment:

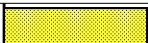



GPIT Housing	GPIH – B
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Powered Positioning Device/Caliper 1 / Equipment Identification

Primary Equipment:

PPC Powered Positioning Device/Caliper	PPC1 – B
PPC1 Caliper 40 Extension	PPC_ –

Auxiliary Equipment:

Powered Positioning Device/Caliper 1 Wellsite Calibration							
PPC1 Caliper Calibration							
Phase	PPC1 Radius 1 Raw Small Radius	MM	Value	Phase	PPC1 Radius 1 Raw Large Radius	MM	Value
Before			137.5	Before			244.4
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)
Phase	PPC1 Radius 2 Raw Small Radius	MM	Value	Phase	PPC1 Radius 2 Raw Large Radius	MM	Value
Before			55.65	Before			168.8
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)

30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)	Value	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)	Value
Before			136.3	Before			244.0
30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Phase	PC1 Radius 3 Raw Small Radius	MM	Value	Phase	PC1 Radius 3 Raw Large Radius	MM	Value
Before			63.71	Before			178.0
30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)	203.2 (Nominal)	246.4 (Maximum)	
Before: 6-Mar-2007 4:43							

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

Enhanced DTS Cartridge

EDTC – B

Auxiliary Equipment:

EDTC Housing

EDTH – B

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	<div><div></div></div>		5.155	Before	<div><div></div></div>		159.1	Before	<div><div></div></div>		165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		144.7 (Minimum)	159.1 (Nominal)	173.6 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)
Before: 6-Mar-2007 10:05											

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.805
9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)
Before: 6-Mar-2007 9:11		

Company: **JOGMEC**

Schlumberger

Well: **AURORA/JOGMEC/NRCAN MALLIK 2L-38**

Field: **MALLIK**

Province: **NWT**

**HIGH RESOLUTION
LATEROLOG ARRAY**