

Company: **JOGMEC**

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

Field: **MALLIK**

Province: **NWT**

SONIC SCANNER

Province: NWT
 Field: MALLIK
 Location: GRID: 69-30-134-30C
 Well: AURORA/JOGMEC/NRCAN MALLIK 2L-38
 Company: JOGMEC

LOCATION		GRID: 69-30-134-30C UWID: 302 L38 69-30-134-301	Elev.: K.B. 10.55 m G.L. 1 m D.F. 10.25 m
Permanent Datum: _____	GROUND LEVEL _____	Elev.: 1 m _____ above Perm. Datum	
Log Measured From: _____	KELLY BUSHING _____		
Drilling Measured From: _____	KELLY BUSHING _____		
API Serial No. _____			
1163			

	Run 1	Run 2	Run
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Recorded By			
Witnessed By			

Logging Date	6-Mar-2007
Run Number	1P-RUN THREE
Depth Driller	1310 m
Schlumberger Depth	1296 m
Bottom Log Interval	1278.7 m
Top Log Interval	680 m
Casing Driller Size @ Depth	339.700 mm @ 677 m
Casing Schlumberger	680 m
Bit Size	361.950 mm
Type Fluid In Hole	KCL POLYMER
Density	1115 kg/m3
Fluid Loss	5 cm3
Source Of Sample	FLOWLINE
RM @ Measured Temperature	0.107 ohm.m @ 20 degC
RMF @ Measured Temperature	0.120 ohm.m @ 19 degC
RMC @ Measured Temperature	0.150 ohm.m @ 20 degC
Source RMF	PRESS
RM @ MRT	0.128 @ 13 0.140 @ 13
Maximum Recorded Temperatures	13 degC
Circulation Stopped	5-Mar-2007 16:00
Logger On Bottom	9-Mar-2007 8:15
Unit Number	1803 NISKU, AB
Recorded By	LANNY LAROCHE
Witnessed By	TOKUJIRO TAKAYAMA

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

DEPTH SUMMARY LISTING

Date Created: 9-MAR-2007 11:07:41

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-BB Serial Number: 107 Calibration Date: 26-JAN-2007 Calibrator Serial Number: 4 Calibration Cable Type: 7-46P-XS Wheel Correction 1: -5 Wheel Correction 2: -5	Type: CMTD-B/A Serial Number: 5055 Calibration Date: 16-FEB-2007 Calibrator Serial Number: 1111 Calibration Gain: 0.89 Calibration Offset: 400.00	Type: 7-46P-XS Serial Number: 0 Length: 7000.04 M <hr/> Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	PLATFORM EXPRESS: COMPENSATED NEUTRON-LITHO DENSITY LOG
Reference Log Run Number:	ONE
Reference Log Date:	03-MAR-2007
Subsequent Trip Down Log Correction:	0.40 M

Depth Control Remarks

- 1.
2. NO SPEED CORRECTION APPLIED AT WELLSITE
- 3.
- 4.
- 5.
- 6.

DISCLAIMER

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

OTHER SERVICES1	OTHER SERVICES2
OS1: 1.ZAIT-HRLT-EMS-GPI	OS1:
OS2: 2.APS-PEX-CMR-ECS	OS2:
OS3: HNGS	OS3:
OS4: 3.FMI-SSCAN	OS4:
OS5: 4.MRSCAN	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
MAIN PASS SSCAN IS "CONCISE" MODE	
REPEAT PASS SSCAN IS "RECORD ALL DATA" MODE	
PPC1 OFFSET FROM PPC2 BY 45deg	
PPC1 AND PPC2 HAS LARGE HOLE KIT INSTALLED AND SET TO ALL POWERED	
SSCAN CENTERED WITH FOUR LCME'S	

BS = 12.25" FROM TD-1296M

BS = 14.25" FROM 1296-SC
 WIPER TRIP PERFORMED BETWEEN RUN2 AND RUN3. DURING THIS TIME,
 DURING THIS TIME, BOTTOM OF HOLE OPENED UP FROM 9.875" TO 12.25"
 MAIN PERFORMED FROM TD-SC
 REPEAT PERFORMED FROM 1150-850M
 DID NOT TAG TD WITH FMI

EMS REMOVED FROM PREVIOUS LOGGING PLAN. CONFIRMED WITH DALLIMORE, MATSUZAWA
 RIG: AKITA 62
 CREW: JAMES MACDONALD / MARK KIMBALL / MIKE KLOC

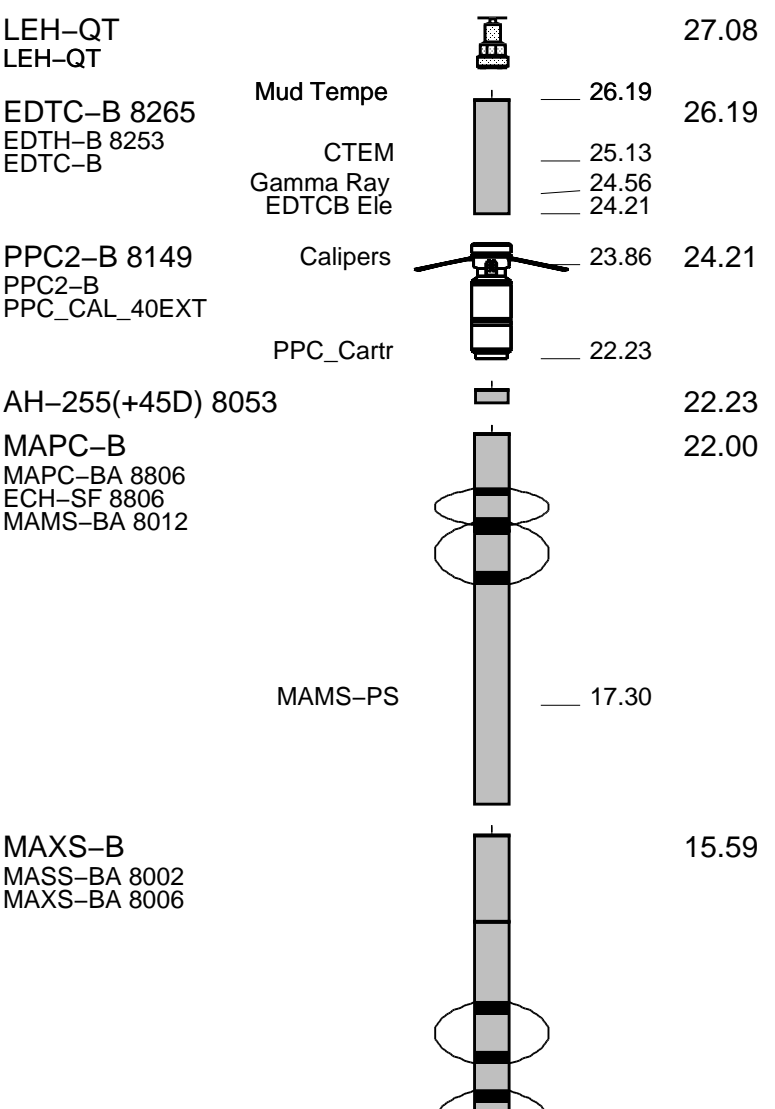
RUN 1			RUN 2		
SERVICE ORDER #:	11709034		SERVICE ORDER #:		
PROGRAM VERSION:	14C0-302		PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

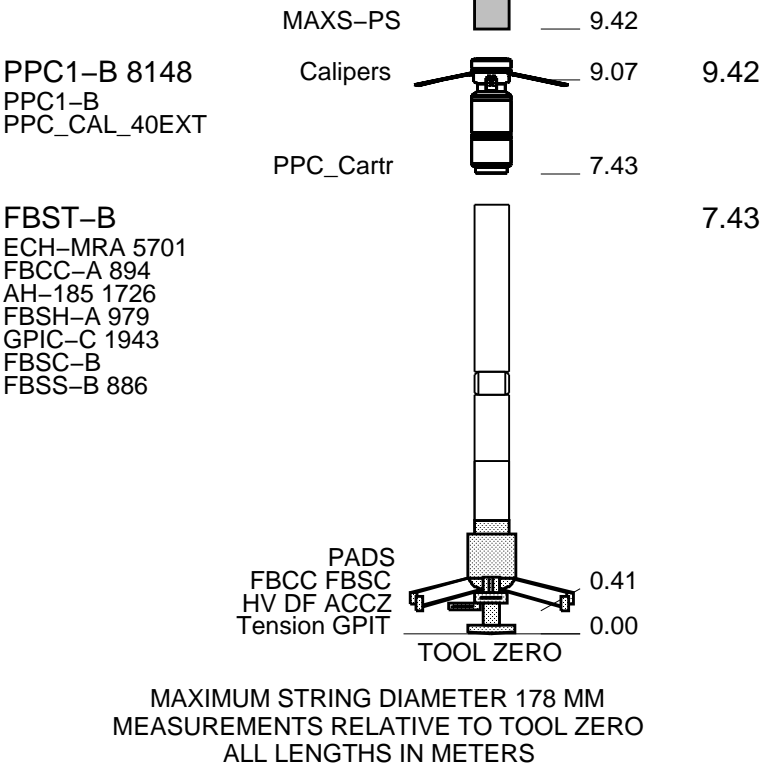
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT
 WITM (EDTS)-A

DOWNHOLE EQUIPMENT





MAIN PASS: BOREHOLE COMPENSATED SONIC

MAXIS Field Log

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

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_020LUP	FN:21	PRODUCER	09-Mar-2007 08:10	1296.0 M	636.9 M
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Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_029PUP	FN:34	PRODUCER	09-Mar-2007 12:43	1296.5 M	612.2 M
FMI_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:35	PRODUCER	09-Mar-2007 12:43		
MSIP_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:36	PRODUCER	09-Mar-2007 12:43	1296.5 M	612.2 M

OP System Version: 14C0-302 MCM

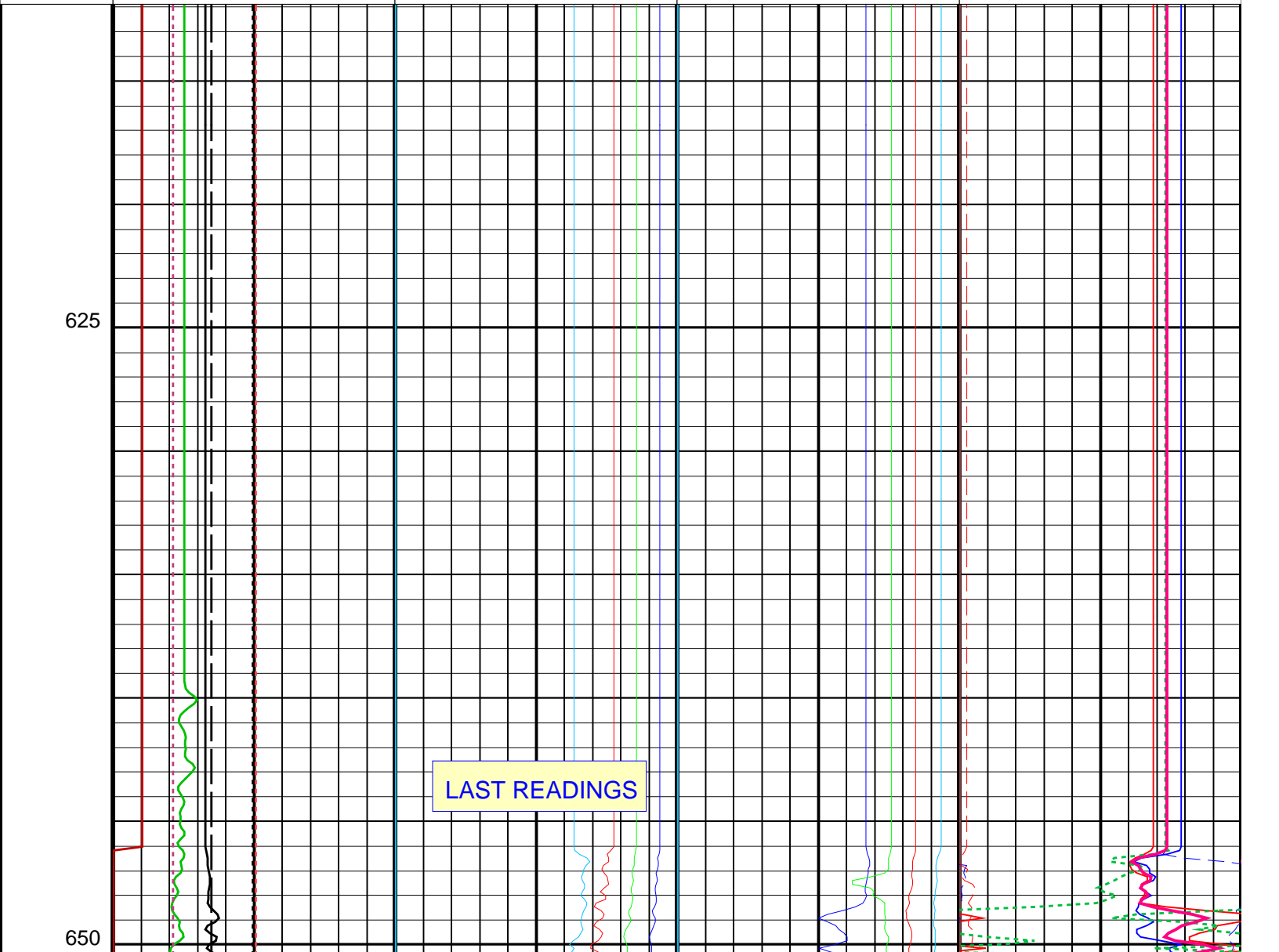
FBST-B	14C0-302	PPC1-B	SKK-3060-PPCB
MAXS-B	SKK-3238-MAST	MAPC-B	SKK-3238-MAST
PPC2-B	SKK-3060-PPCB	EDTC-B	SKK-3248-EDTCB

PIP SUMMARY

Time Mark Every 60 S

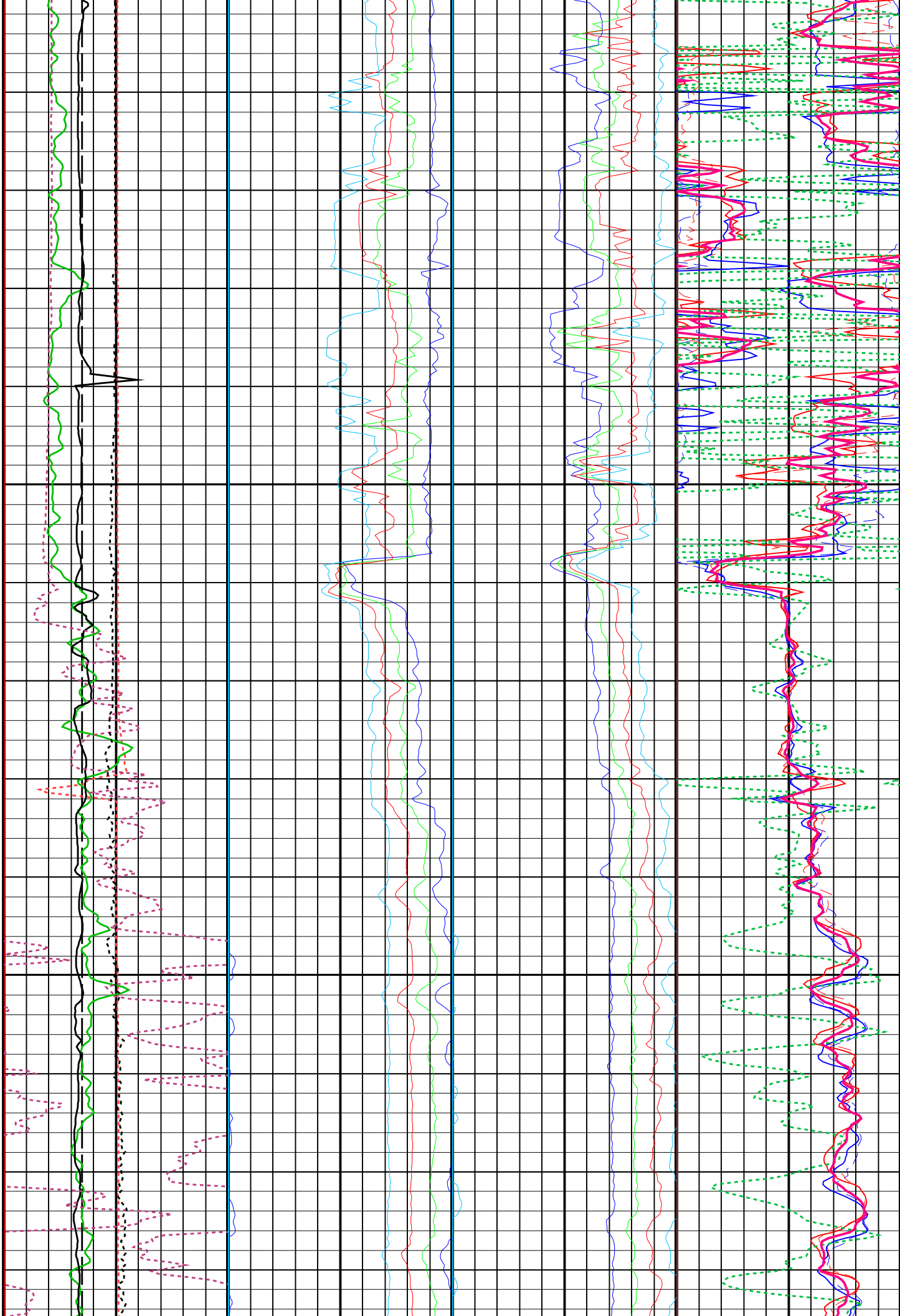
	TT Status for Station#8 (TT_STATUS_MU[3])	TT Status for Station#9 (TT_STATUS_ML[3])	
	0 (---- 10	0 (---- 10	
Tension (TENS)	TT Status for Station#7 (TT_	TT Status for Station#8 (TT_	1.5 FT Span Borehole Slowness Compensation (DT

25000 (N)	0	0	-----	10	0	-----	10	-150	(US/M)	150	
Borehole Size (SOBS)	TT Status for Station#6 (TT_STATUS_MU[1])	TT Status for Station#7 (TT_STATUS_ML[1])	1.5 FT Span BHC from Near Spacing (DT_BHC)								
275 (MM)	525	0	-----	10	0	-----	10	100	(US/M)	800	
Sonic Porosity (SPHI)	TT Status for Station#5 (TT_STATUS_MU[0])	TT Status for Station#6 (TT_STATUS_ML[0])	1.5 FT Delta-t from ML (DT_ML)								
0.6 (V/V)	0	0	-----	10	0	-----	10	100	(US/M)	800	
Gamma Ray (GR_EDTC)	Transit Time for Station#8 (TT_MU[3])	Transit Time for Station#9 (TT_ML[3])	1.5 FT Delta-t from MU (DT_MU)								
0 (GAPI)	150	0	(US)	1000	0	(US)	1000	100	(US/M)	800	
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 1 (DCSI1)	Transit Time for Station#7 (TT_MU[2])	Transit Time for Station#8 (TT_ML[2])	2 FT Span LQC Delta-t from ML (DT_LQC_ML)							
0	(-----)	10	0	(US)	1000	0	(US)	1000	100	(US/M)	800
Cable Drag From D4T to STIT	Cable Speed (CS)	Transit Time for Station#6 (TT_MU[1])	Transit Time for Station#7 (TT_ML[1])	2 FT Span LQC Delta-t from MU (DT_LQC_MU)							
0	(M/HR)	1000	0	(US)	1000	0	(US)	1000	100	(US/M)	800
Stuck Stretch (STIT)	Bit Size (BS)	Transit Time for Station#5 (TT_MU[0])	Transit Time for Station#6 (TT_ML[0])	1.5 FT Span MAST BHC Status (BHC_STATUS_MAST)							
0	(MM)	20	0	(US)	1000	0	(US)	1000	0	(-----)	10



675

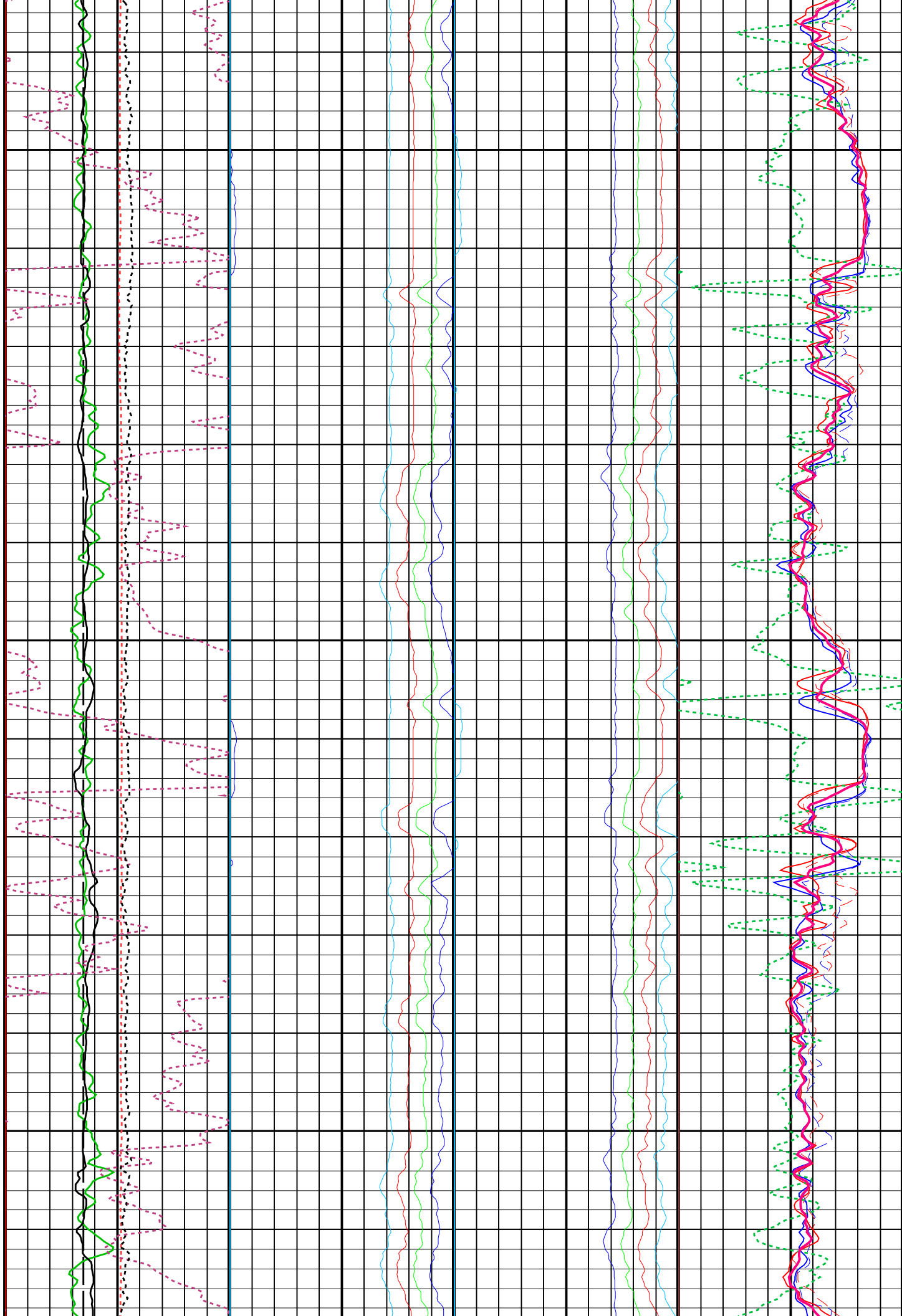
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725

750

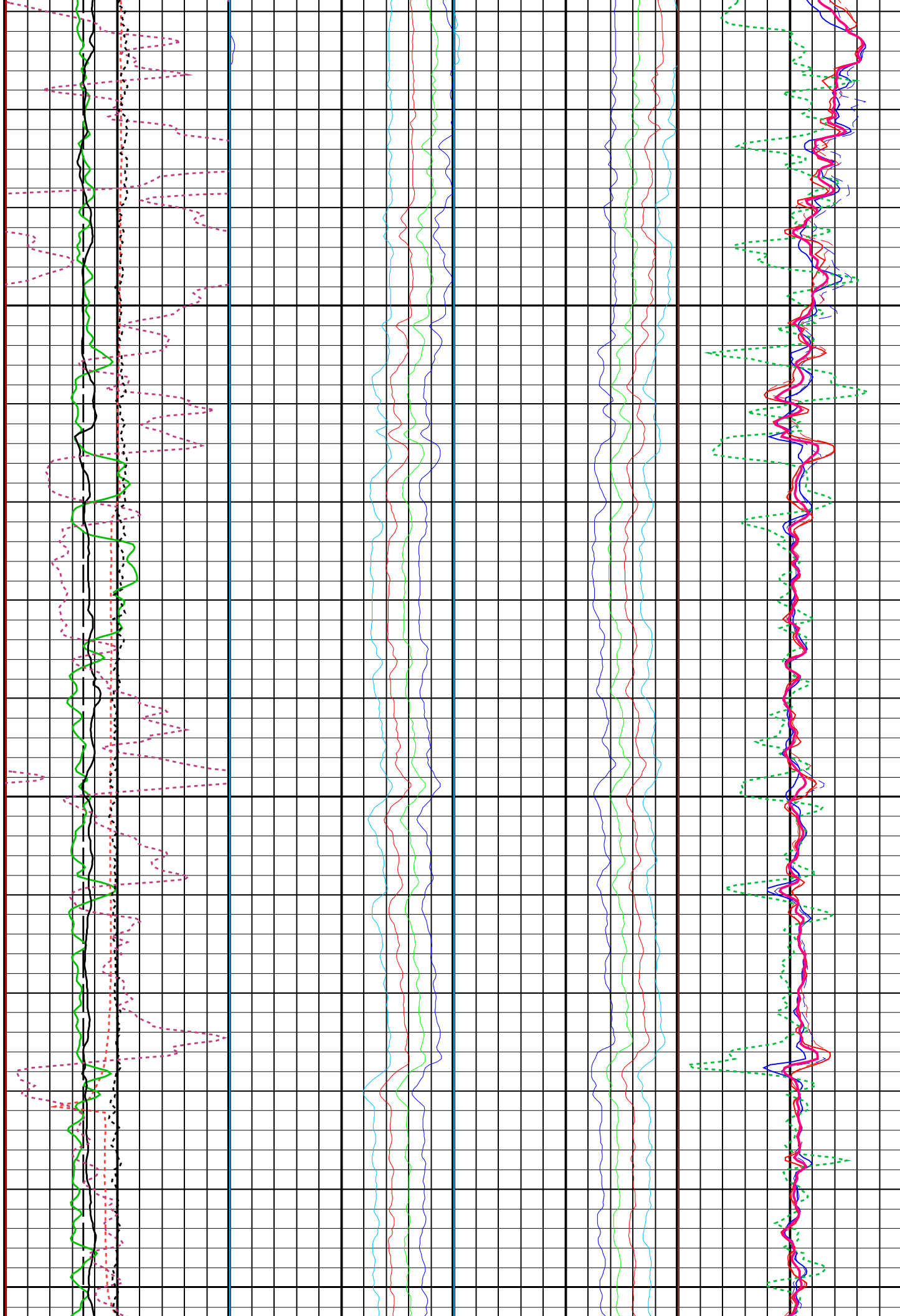
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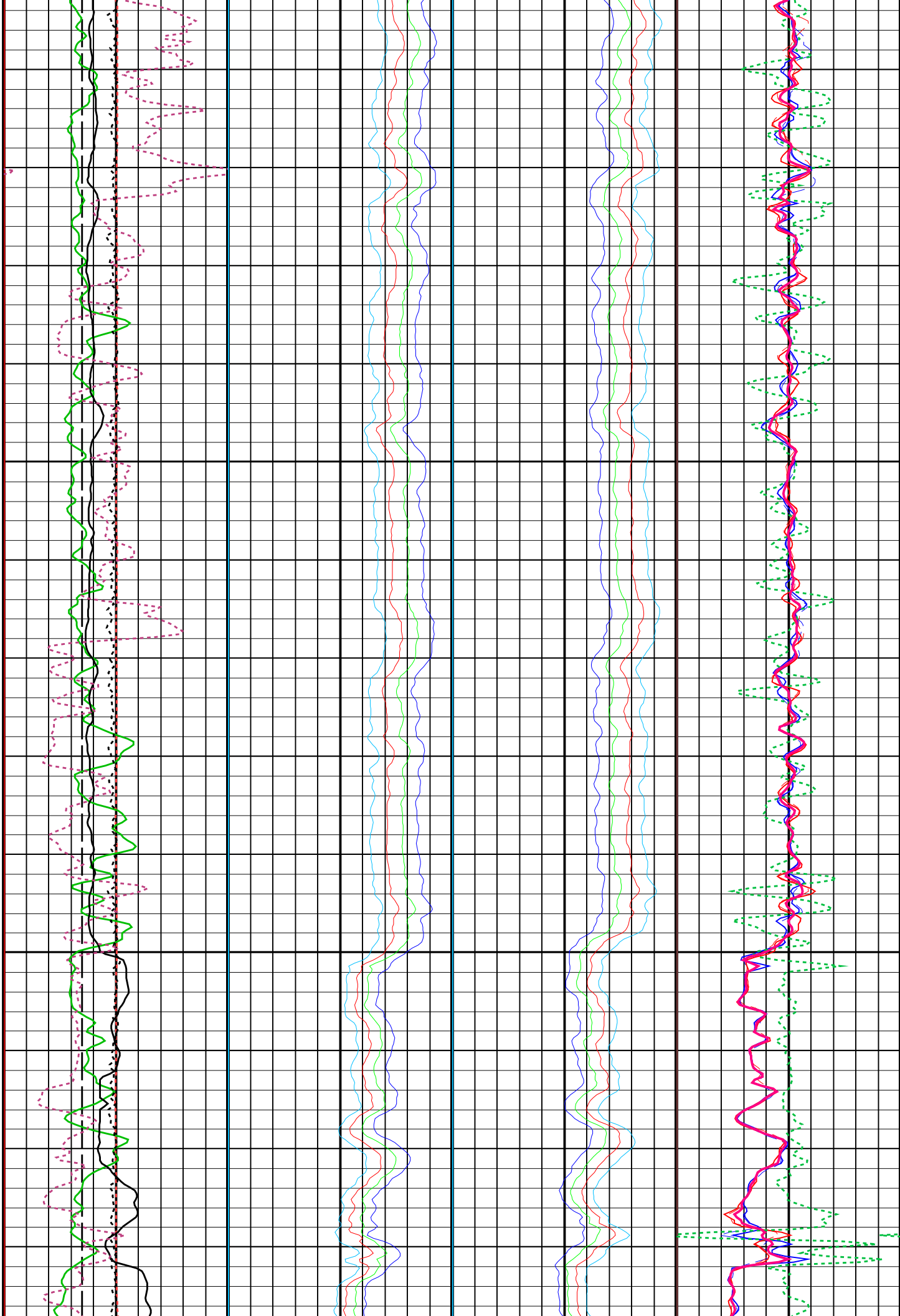
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875

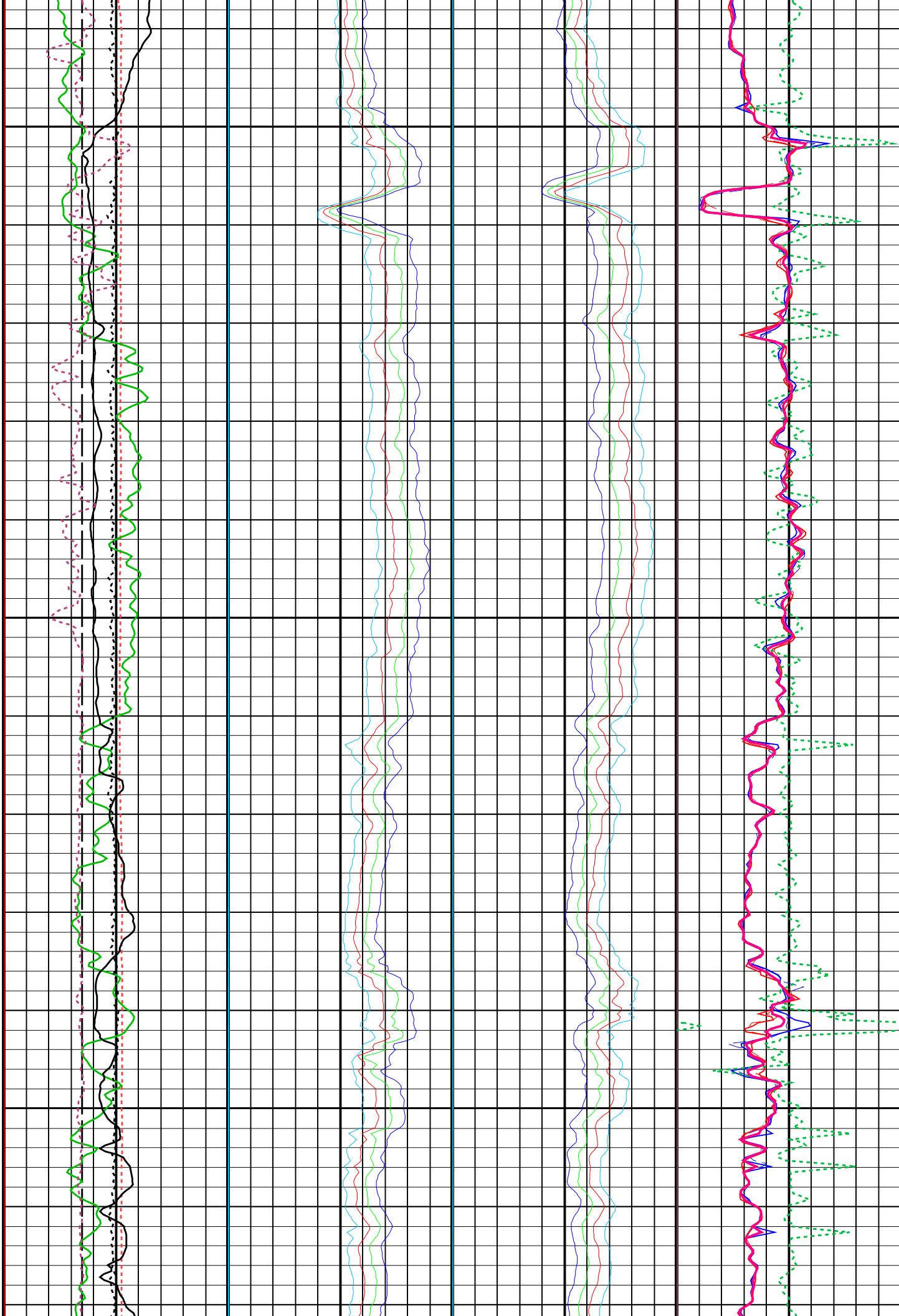
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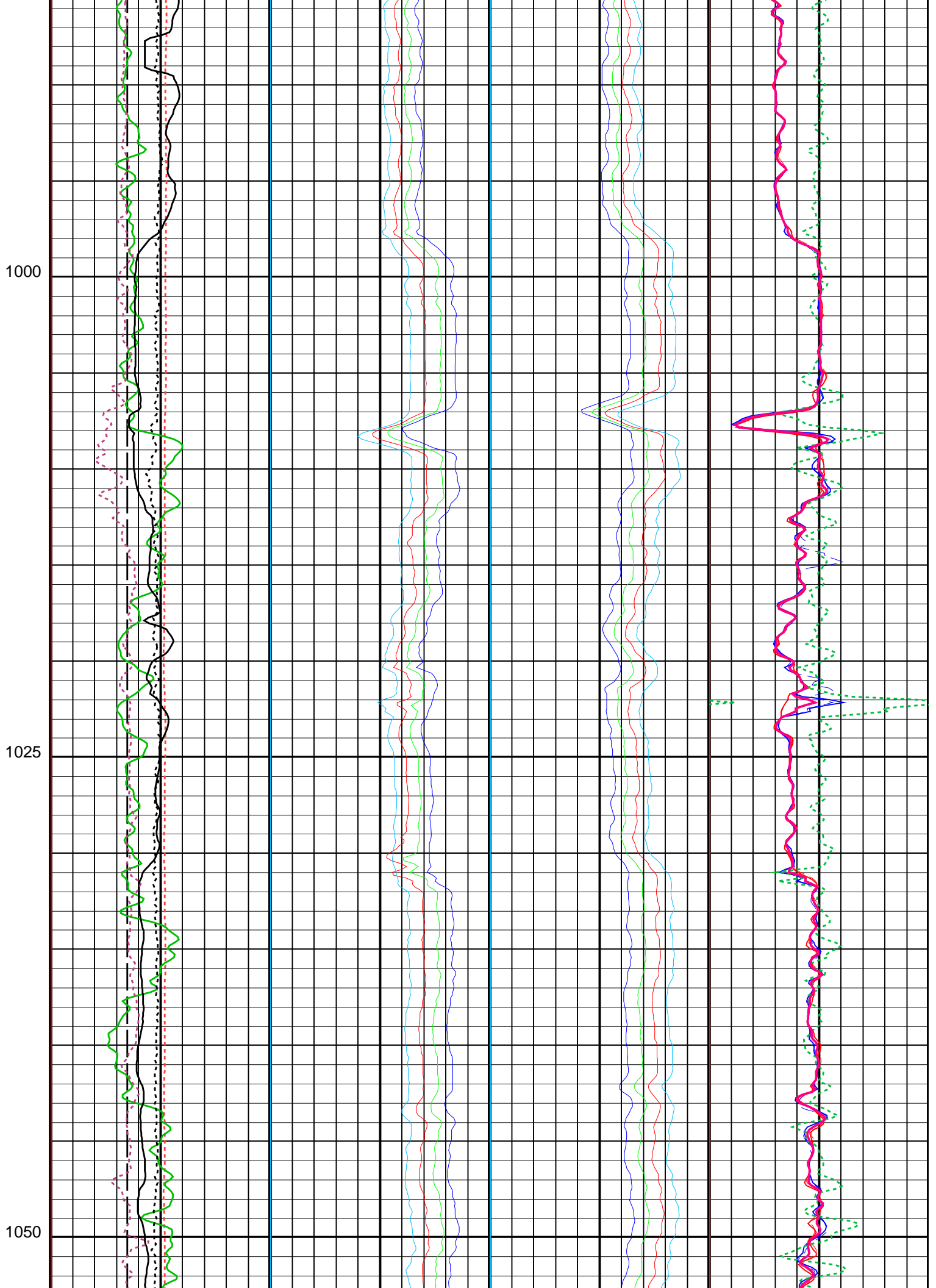


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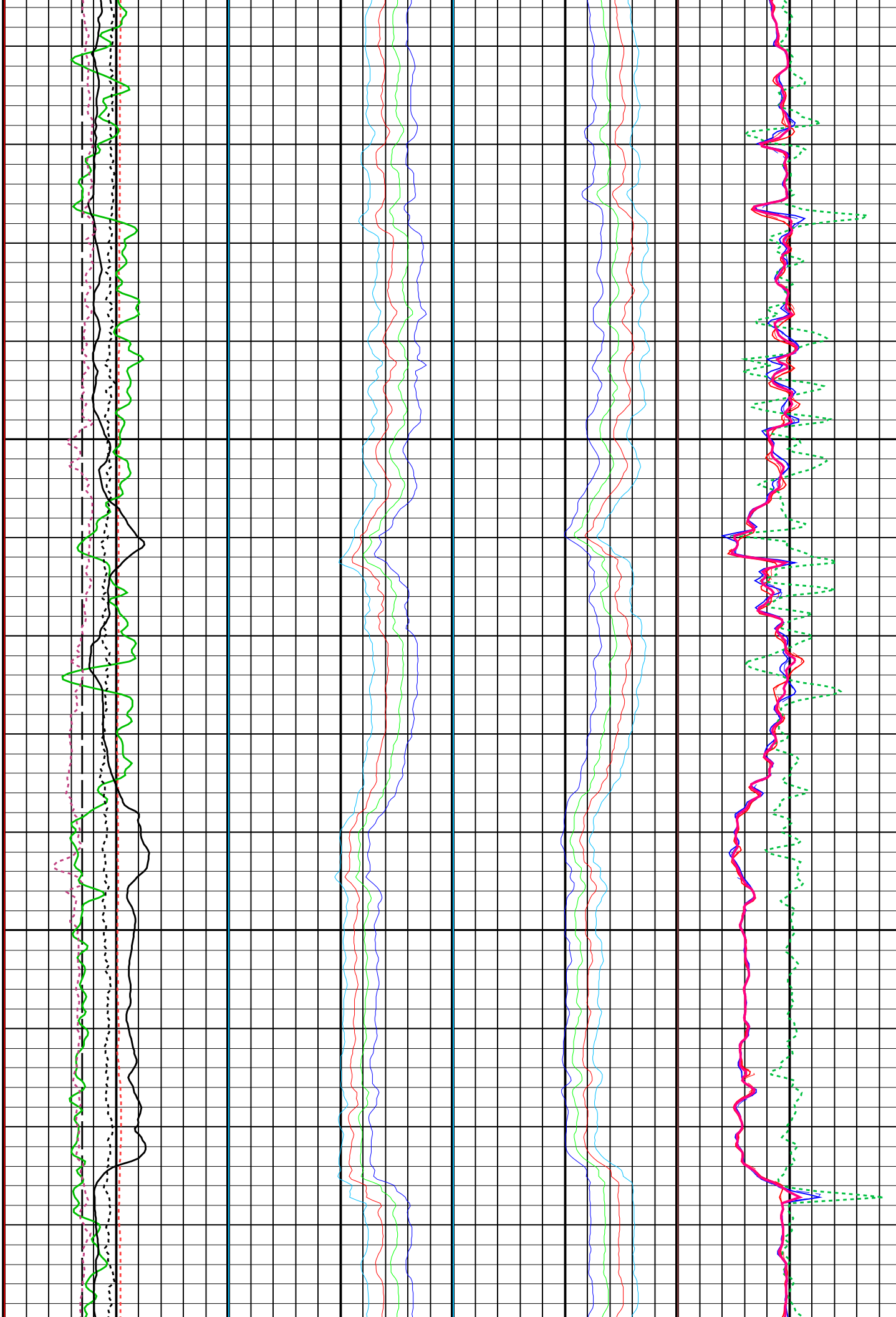
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1075

1100



1125

1150

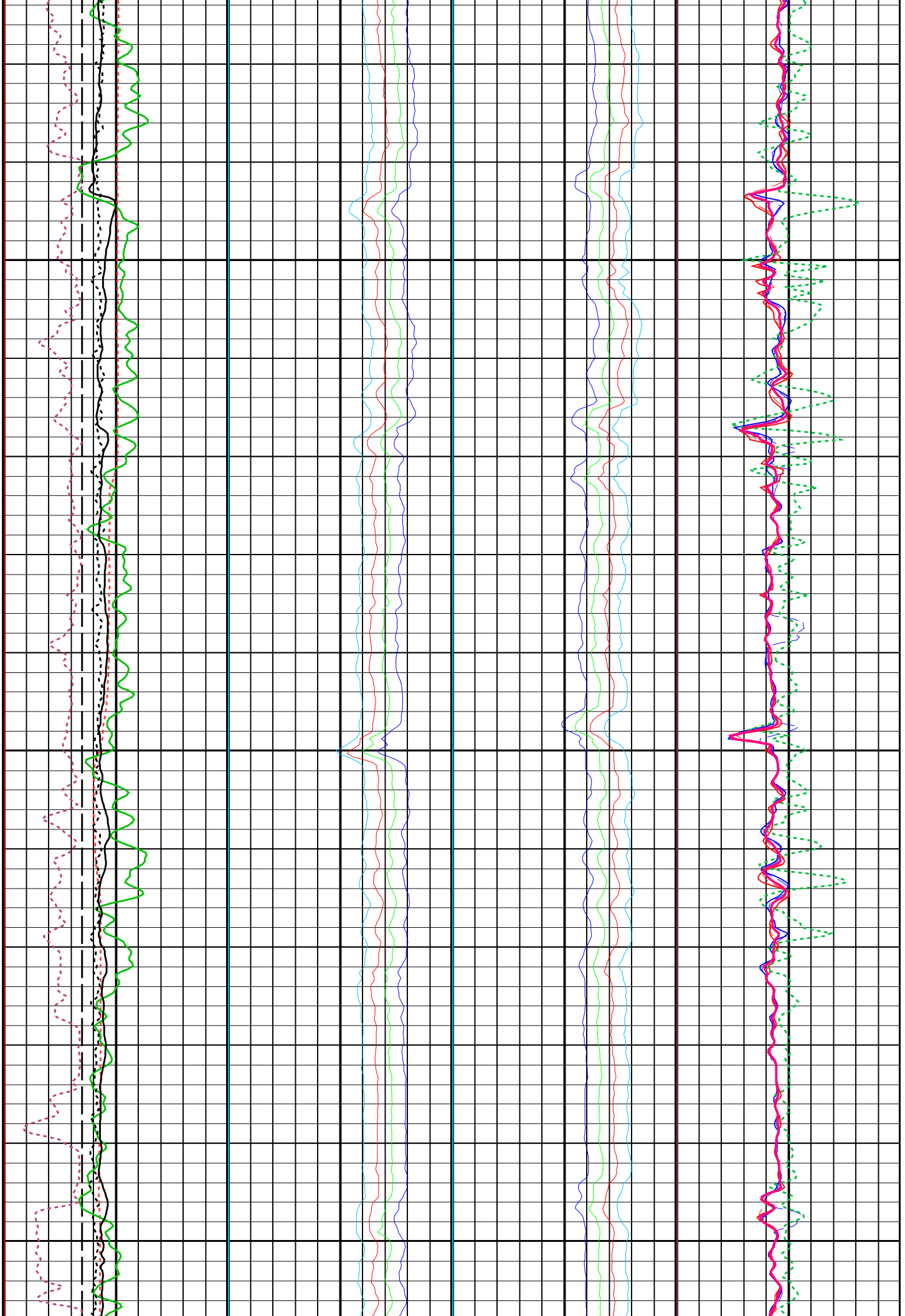
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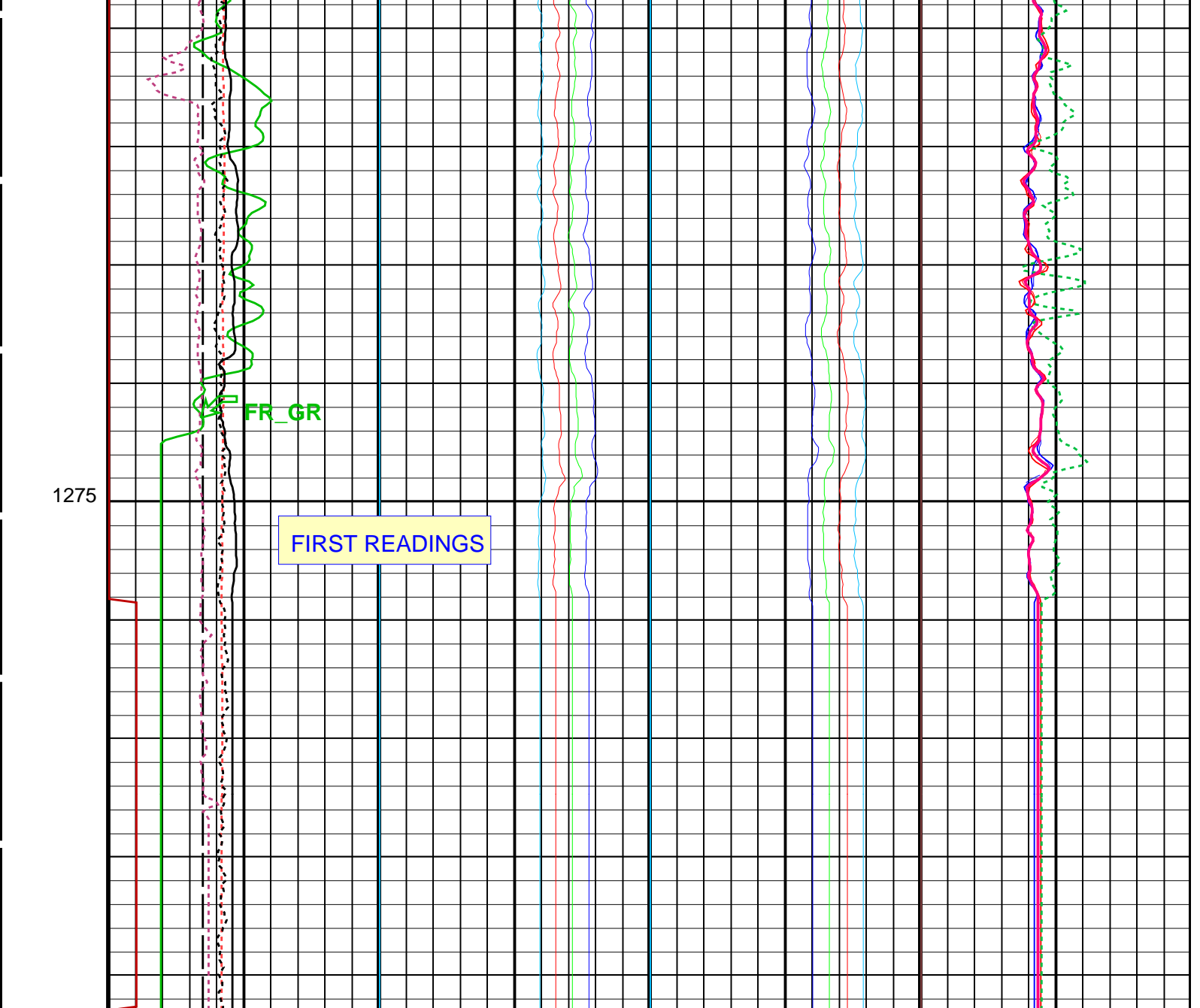


1200

1225

1250





1275

FIRST READINGS

FR_GR

Stuck Stretch (STIT)	Bit Size (BS)	Transit Time for Station#5 (TT_MU[0])		Transit Time for Station#6 (TT_ML[0])		1.5 FT Span MAST BHC Status (BHC_STATUS_MAST)
	275 (MM) 525	0 (US) 1000	0 (US) 1000	0 (US) 1000	0 (----) 10	
Cable Drag From D4T to STIT	Cable Speed (CS)	Transit Time for Station#6 (TT_MU[1])		Transit Time for Station#7 (TT_ML[1])		2 FT Span LQC Delta-t from MU (DT_LQC_MU)
	0 (M/HR) 1000	0 (US) 1000	0 (US) 1000	0 (US) 1000	100 (US/M) 800	
Tool/Tot. Drag From D4T to STIA	Data Copy Status Indicator 1 (DCSI1)	Transit Time for Station#7 (TT_MU[2])		Transit Time for Station#8 (TT_ML[2])		2 FT Span LQC Delta-t from ML (DT_LQC_ML)
	0 (----) 10	0 (US) 1000	0 (US) 1000	0 (US) 1000	100 (US/M) 800	
	Gamma Ray (GR_EDTC)	Transit Time for Station#8 (TT_MU[3])		Transit Time for Station#9 (TT_ML[3])		1.5 FT Delta-t from MU (DT_MU)
	0 (GAPI) 150	0 (US) 1000	0 (US) 1000	0 (US) 1000	100 (US/M) 800	
	Sonic Porosity (SPHI)	TT Status for Station#5 (TT_STATUS_MU[0])		TT Status for Station#6 (TT_STATUS_ML[0])		1.5 FT Delta-t from ML (DT_ML)
	0.6 (V/V) 0	0 (----) 10	0 (----) 10	0 (----) 10	100 (US/M) 800	
	Borehole Size (SOBS)	TT Status for Station#6 (TT_STATUS_MU[1])		TT Status for Station#7 (TT_STATUS_ML[1])		1.5 FT Span BHC from Near Spacing (DT_BHC)
	275 (MM) 525	0 (----) 10	0 (----) 10	0 (----) 10	100 (US/M) 800	

	0	(----	10	0	(----	10	100	(US/M)	800
Tension (TENS)	TT Status for Station#7 (TT_	TT Status for Station#8 (TT_		TT Status for Station#8 (TT_		1.5 FT Span Borehole			
25000	STATUS_MU[2])	STATUS_ML[2])		STATUS_ML[2])		Slowness Compensation (DT_			
(N)	0	(----	10	0	(----	10	COR)		
0	0	(----	10	0	(----	10	-150	(US/M)	150
	TT Status for Station#8 (TT_	TT Status for Station#9 (TT_		TT Status for Station#9 (TT_					
	STATUS_MU[3])	STATUS_ML[3])		STATUS_ML[3])					
	0	(----	10	0	(----	10			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MAPC-B: Multimode Array Sonic Power Cartridge			
BHS	Borehole Status	OPEN	
BS	Bit Size	361.950	MM
CDTS	C-Delta-T Shale	328.084	US/M
DLHS	Hole Diameter Source for SOBS Channel	HD1_PPC1	
DTF	Delta-T Fluid	620.079	US/M
DTM	Delta-T Matrix	183.727	US/M
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DTCO	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
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	0.4	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	NORMAL	

Format: MAST_BHC Vertical Scale: 1:240

Graphics File Created: 09-Mar-2007 12:44

OP System Version: 14C0-302

MCM

FBST-B	14C0-302	PPC1-B	SKK-3060-PPCB
MAXS-B	SKK-3238-MAST	MAPC-B	SKK-3238-MAST
PPC2-B	SKK-3060-PPCB	EDTC-B	SKK-3248-EDTCB

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_020LUP	FN:21	PRODUCER	09-Mar-2007 08:10	1296.0 M	636.9 M
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Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_029PUP	FN:34	PRODUCER	09-Mar-2007 12:43
FMI_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:35	PRODUCER	09-Mar-2007 12:43
MSIP_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:36	PRODUCER	09-Mar-2007 12:43



REPEAT ANALYSIS: BOREHOLE
COMPENSATED SONIC

MAXIS Field Log

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_026PUP	FN:29	PRODUCER	09-Mar-2007 11:47	1180.0 M	781.5 M
DEFAULT	FMI_CAL_MAXS_MAPC_020LUP	FN:21	PRODUCER	09-Mar-2007 08:10	1296.0 M	636.9 M

Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_029PUP	FN:34	PRODUCER	09-Mar-2007 12:43		
FMI_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:35	PRODUCER	09-Mar-2007 12:43		
MSIP_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:36	PRODUCER	09-Mar-2007 12:43		

OP System Version: 14C0-302

MCM

FBST-B	14C0-302	PPC1-B	SKK-3060-PPCB
MAXS-B	SKK-3238-MAST	MAPC-B	SKK-3238-MAST
PPC2-B	SKK-3060-PPCB	EDTC-B	SKK-3248-EDTCB

PIP SUMMARY

Time Mark Every 60 S

	TT Status for Station#8 (TT_STATUS_MU[3])	TT Status for Station#9 (TT_STATUS_ML[3])	
	0 (----) 10	0 (----) 10	
TENS_REP Curve (TENS_REP) 25000 (N) 0	TT Status for Station#7 (TT_STATUS_MU[2])	TT Status for Station#8 (TT_STATUS_ML[2])	MAST_BHC_REP Curve (DT_BHC_REP) 100 (US/M) 800
	0 (----) 10	0 (----) 10	
SOBS_REP Curve (SOBS_REP) 275 (MM) 525	TT Status for Station#6 (TT_STATUS_MU[1])	TT Status for Station#7 (TT_STATUS_ML[1])	DT_COR_REP Curve (DT_COR_REP) -150 (US/M) 150
	0 (----) 10	0 (----) 10	
GR_REP Curve (GR_EDTC_REP) 0 (GAPI) 150	TT Status for Station#5 (TT_STATUS_MU[0])	TT Status for Station#6 (TT_STATUS_ML[0])	DT_ML_REP Curve (DT_ML_REP) 100 (US/M) 800
	0 (----) 10	0 (----) 10	
DCSI1_REP Curve (DCSI1_REP) 0 (----) 10	Transit Time for Station#8 (TT_MU[3])	Transit Time for Station#9 (TT_ML[3])	BHC_STATUS_MAST_REP Curve (BHC_STATUS_MAST_REP) 0 (----) 10
	0 (US) 1000	0 (US) 1000	
SPHI_REP Curve (SPHI_REP) 0.6 (VV) 0	Transit Time for Station#7 (TT_MU[2])	Transit Time for Station#8 (TT_ML[2])	DT_MU_REP Curve (DT_MU_REP) 100 (US/M) 800
	0 (US) 1000	0 (US) 1000	
CS_REP Curve (CS_REP) 0 (M/HR) 1000	Transit Time for Station#6 (TT_MU[1])	Transit Time for Station#7 (TT_ML[1])	DT_LQC_ML_REP Curve (DT_LQC_ML_REP) 100 (US/M) 800
	0 (US) 1000	0 (US) 1000	
BS_REP Curve (BS_REP) 275 (MM) 525	Transit Time for Station#5 (TT_MU[0])	Transit Time for Station#6 (TT_ML[0])	DT_LQC_MU_REP Curve (DT_LQC_MU_REP) 100 (US/M) 800
	0 (US) 1000	0 (US) 1000	

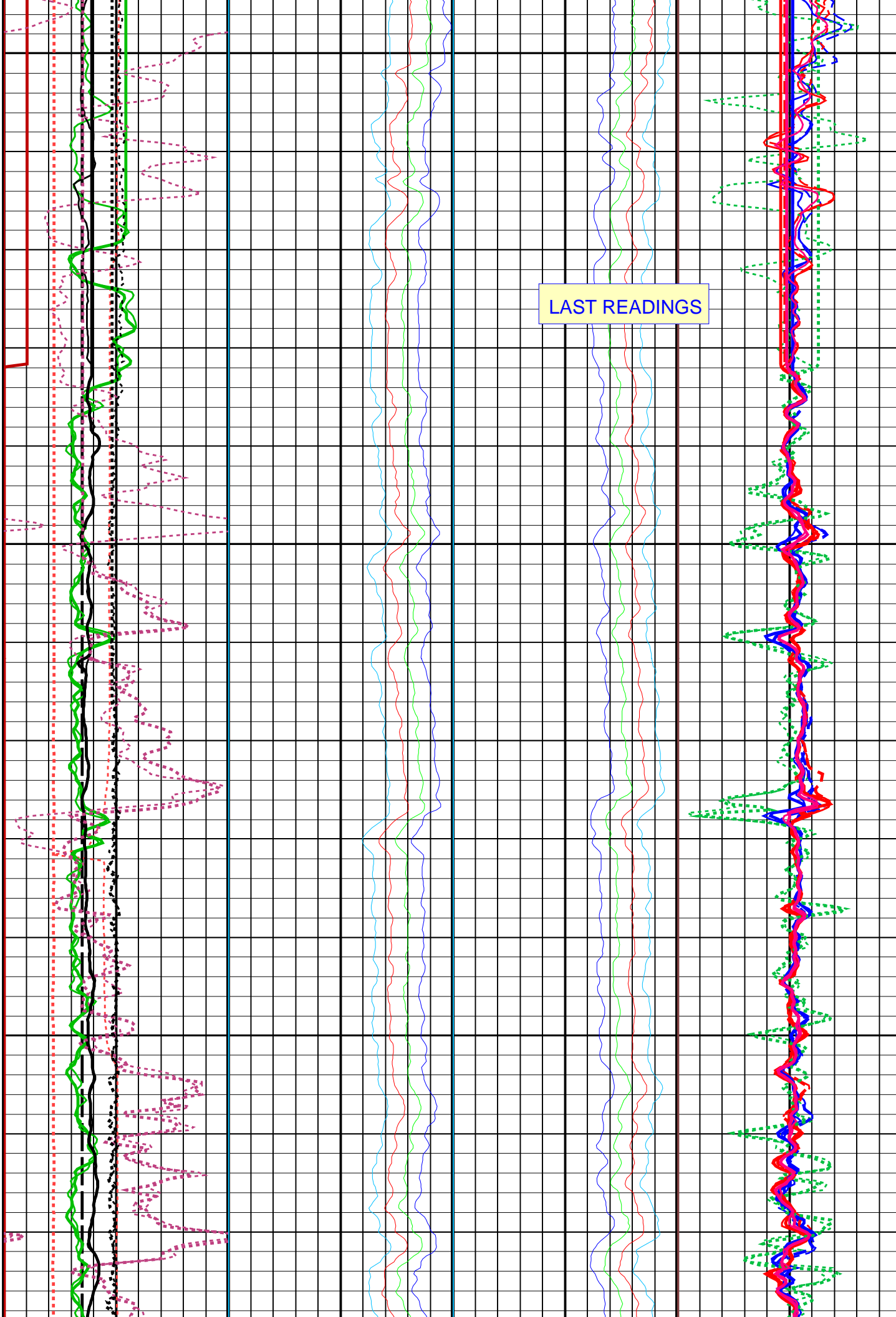


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825

850

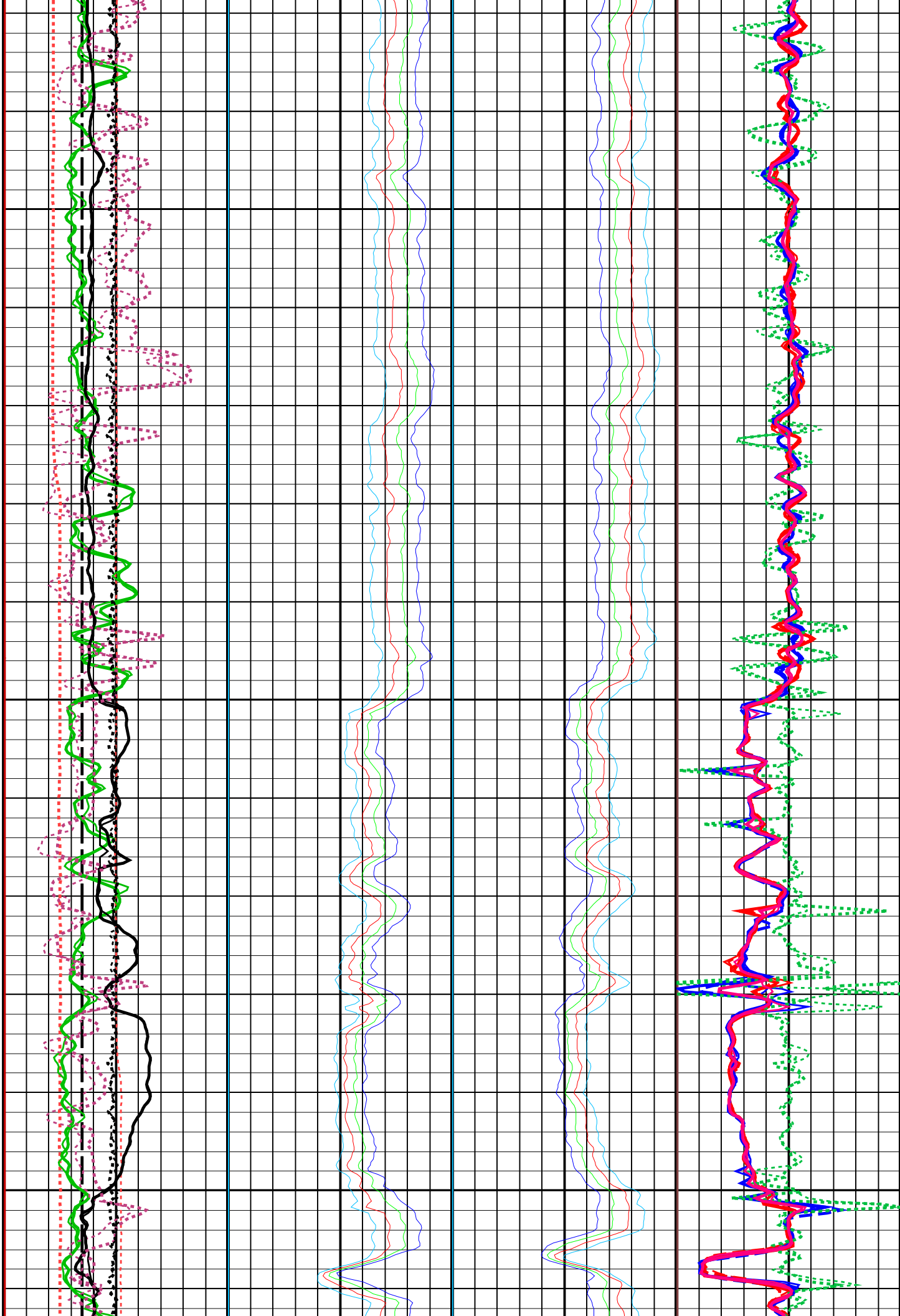
LAST READINGS



875

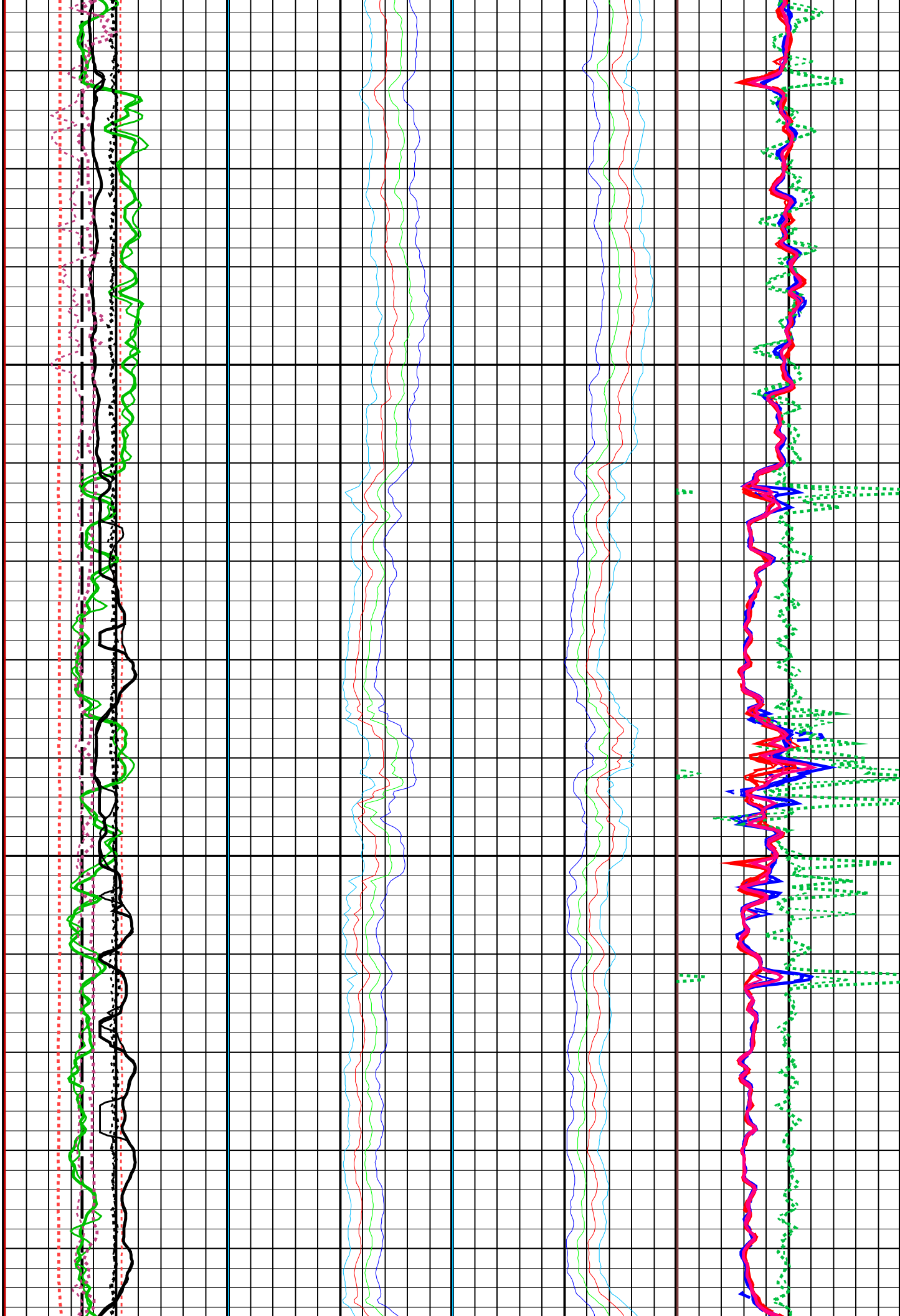
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950

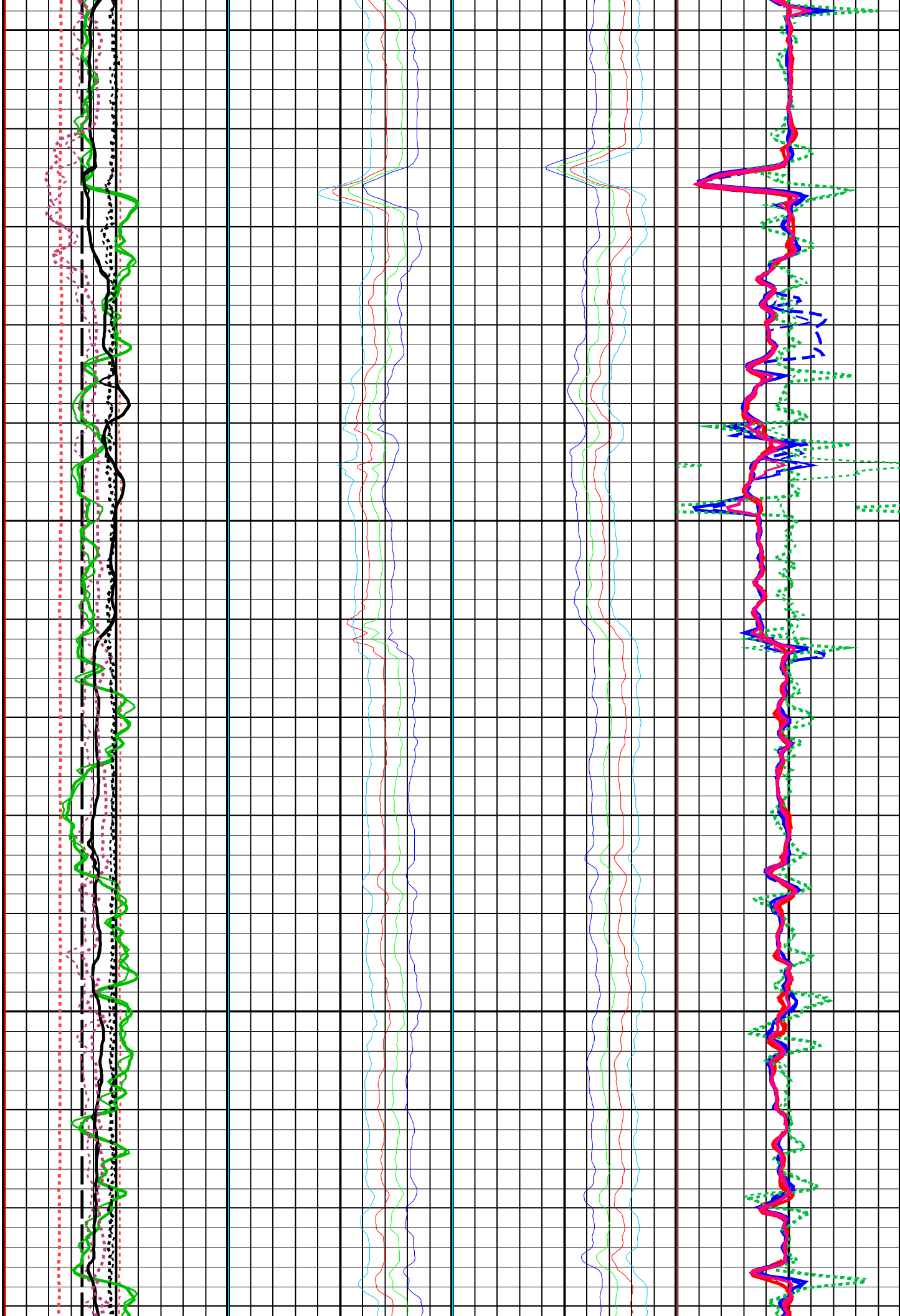
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1000

1025

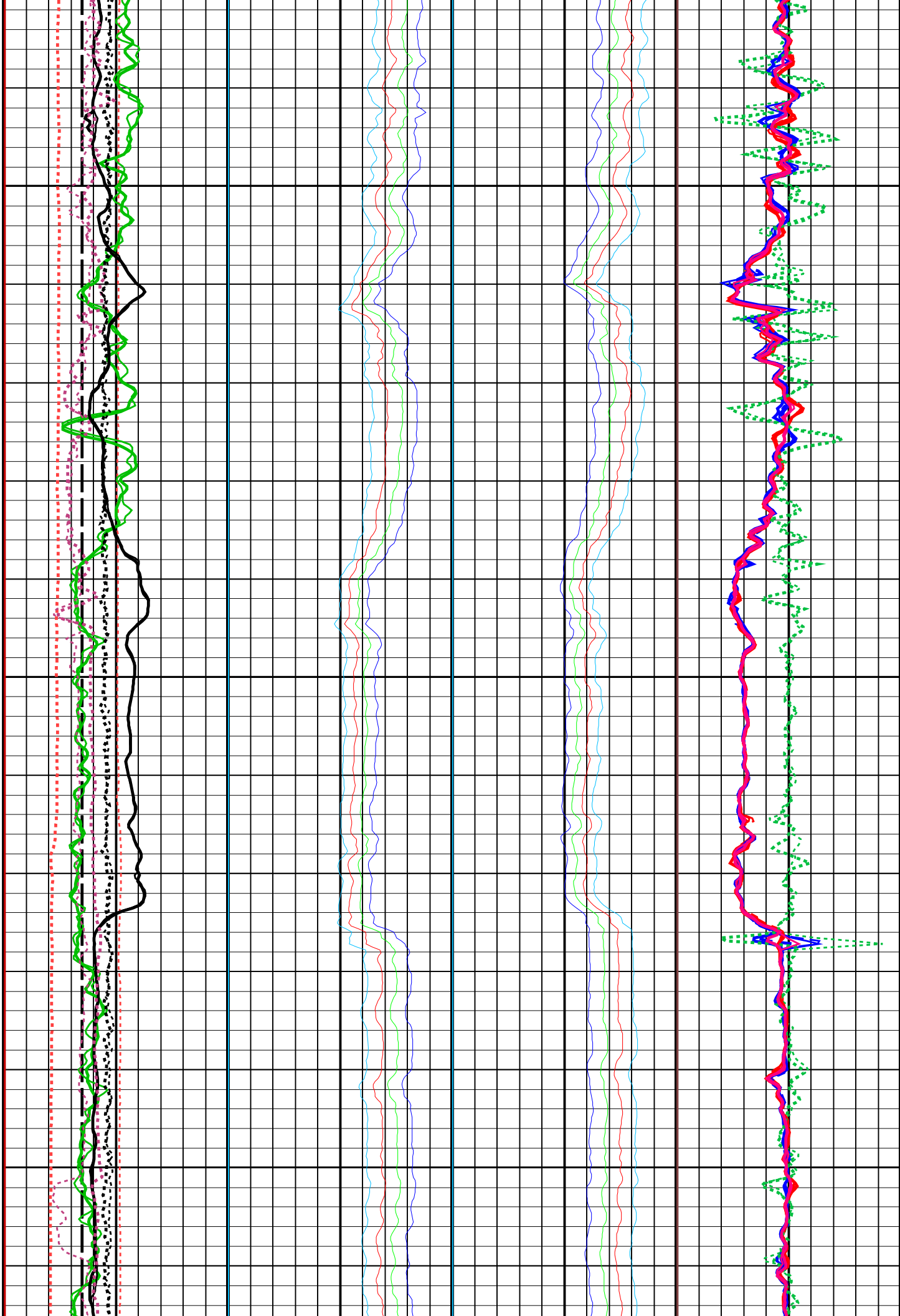
1050



1075

1100

1125



1150

1175

FIRST READINGS

<p>BS_REP Curve (BS_REP) 275 (MM) 525</p>	<p>Transit Time for Station#5 (TT_MU[0]) 0 (US) 1000</p>	<p>Transit Time for Station#6 (TT_ML[0]) 0 (US) 1000</p>	<p>DT_LQC_MU_REP Curve (DT_LQC_MU_REP) 100 (US/M) 800</p>
<p>CS_REP Curve (CS_REP) 0 (M/HR) 1000</p>	<p>Transit Time for Station#6 (TT_MU[1]) 0 (US) 1000</p>	<p>Transit Time for Station#7 (TT_ML[1]) 0 (US) 1000</p>	<p>DT_LQC_ML_REP Curve (DT_LQC_ML_REP) 100 (US/M) 800</p>
<p>SPHI_REP Curve (SPHI_REP) 0.6 (V/V) 0</p>	<p>Transit Time for Station#7 (TT_MU[2]) 0 (US) 1000</p>	<p>Transit Time for Station#8 (TT_ML[2]) 0 (US) 1000</p>	<p>DT_MU_REP Curve (DT_MU_REP) 100 (US/M) 800</p>
<p>DCSI1_REP Curve (DCSI1_REP) 0 (----) 10</p>	<p>Transit Time for Station#8 (TT_MU[3]) 0 (US) 1000</p>	<p>Transit Time for Station#9 (TT_ML[3]) 0 (US) 1000</p>	<p>BHC_STATUS_MAST_REP Curve (BHC_STATUS_MAST_REP) 0 (----) 10</p>
<p>GR_REP Curve (GR_EDTC_REP) 0 (GAPI) 150</p>	<p>TT Status for Station#5 (TT_STATUS_MU[0]) 0 (----) 10</p>	<p>TT Status for Station#6 (TT_STATUS_ML[0]) 0 (----) 10</p>	<p>DT_ML_REP Curve (DT_ML_REP) 100 (US/M) 800</p>

SOBS_REP Curve (SOBS_REP) 275 (MM) 525	TT Status for Station#6 (TT_STATUS_MU[1]) 0 (----) 10	TT Status for Station#7 (TT_STATUS_ML[1]) 0 (----) 10	DT_COR_REP Curve (DT_COR_REP) -150 (US/M) 150
TENS_REP Curve (TENS_REP) 25000 (N) 0	TT Status for Station#7 (TT_STATUS_MU[2]) 0 (----) 10	TT Status for Station#8 (TT_STATUS_ML[2]) 0 (----) 10	MAST_BHC_REP Curve (DT_BHC_REP) 100 (US/M) 800
	TT Status for Station#8 (TT_STATUS_MU[3]) 0 (----) 10	TT Status for Station#9 (TT_STATUS_ML[3]) 0 (----) 10	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MAPC-B: Multimode Array Sonic Power Cartridge		
BHS	Borehole Status	OPEN
BS	Bit Size	361.950 MM
CDTS	C-Delta-T Shale	328.084 US/M
DLHS	Hole Diameter Source for SOBS Channel	HD1_PPC1
DTF	Delta-T Fluid	620.079 US/M
DTM	Delta-T Matrix	183.727 US/M
SPFS	Sonic Porosity Formula	RAYMER_HUNT
SPSO	Sonic Porosity Source	DTCO
EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN
System and Miscellaneous		
DO	Depth Offset for Playback	0.4 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL

Format: MAST_BHC_REP Vertical Scale: 1:240 Graphics File Created: 09-Mar-2007 12:44

OP System Version: 14C0-302
MCM

FBST-B	14C0-302	PPC1-B	SKK-3060-PPCB
MAXS-B	SKK-3238-MAST	MAPC-B	SKK-3238-MAST
PPC2-B	SKK-3060-PPCB	EDTC-B	SKK-3248-EDTCB

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_026PUP	FN:29	PRODUCER	09-Mar-2007 11:47	1180.0 M	781.5 M
DEFAULT	FMI_CAL_MAXS_MAPC_020LUP	FN:21	PRODUCER	09-Mar-2007 08:10	1296.0 M	636.9 M

Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_029PUP	FN:34	PRODUCER	09-Mar-2007 12:43
FMI_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:35	PRODUCER	09-Mar-2007 12:43
MSIP_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:36	PRODUCER	09-Mar-2007 12:43

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_020LUP	FN:21	PRODUCER	09-Mar-2007 08:10	1296.0 M	636.9 M
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Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_029PUP	FN:34	PRODUCER	09-Mar-2007 12:43	1296.5 M	612.2 M
FMI_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:35	PRODUCER	09-Mar-2007 12:43		
MSIP_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:36	PRODUCER	09-Mar-2007 12:43	1296.5 M	612.2 M

OP System Version: 14C0-302
MCM

FBST-B	14C0-302	PPC1-B	SKK-3060-PPCB
MAXS-B	SKK-3238-MAST	MAPC-B	SKK-3238-MAST
PPC2-B	SKK-3060-PPCB	EDTC-B	SKK-3248-EDTCB

PIP SUMMARY

Time Mark Every 60 S

Data Copy Status Indicator 1 (DCSI1) 0 (---- 10)												
Sonic Porosity (SPHI) 0.6 (V/V) 0												
Cable Speed (CS) 0 (M/HR)1000					Tool/Tot. Drag From D3T to STIA							
Tension (TENS) 25000 (N) 0					Cable Drag From STIA to STIT							
Bit Size (BS) 275 (MM) 525		0.0000 1.0000 MAPC Auxiliary Data Status Image (LQC_MAPC) (----)	0.0000 1.0000 MAXS Auxiliary Data Status Image (LQC_MAXS) (----)	0.0000 1.0000 MAST Waveform Quality Control Status Image (WFA1_STATU S) (----)	Stuck Stretch (STIT) 0 (M) 20	0.0000 1.0000 MAST Waveform Quality Control Status Image 1 (LQC_WF1) (----)	0.0000 1.0000 MAST Waveform Quality Control Status Image 2 (LQC_WF2) (----)	0.0000 1.0000 MAST Waveform Quality Control Status Image 3 (LQC_WF3) (----)	0.0000 1.0000 MAST Waveform Quality Control Status Image 4 (LQC_WF4) (----)	0.0000 1.0000 MAST Waveform Quality Control Status Image 5 (LQC_WF5) (----)	0.0000 1.0000 MAST Waveform Quality Control Status Image 6 (LQC_WF6) (----)	

***** MAST WFQC Flag Tracks *****

White = Absent Blue / Green = Good Red = Bad

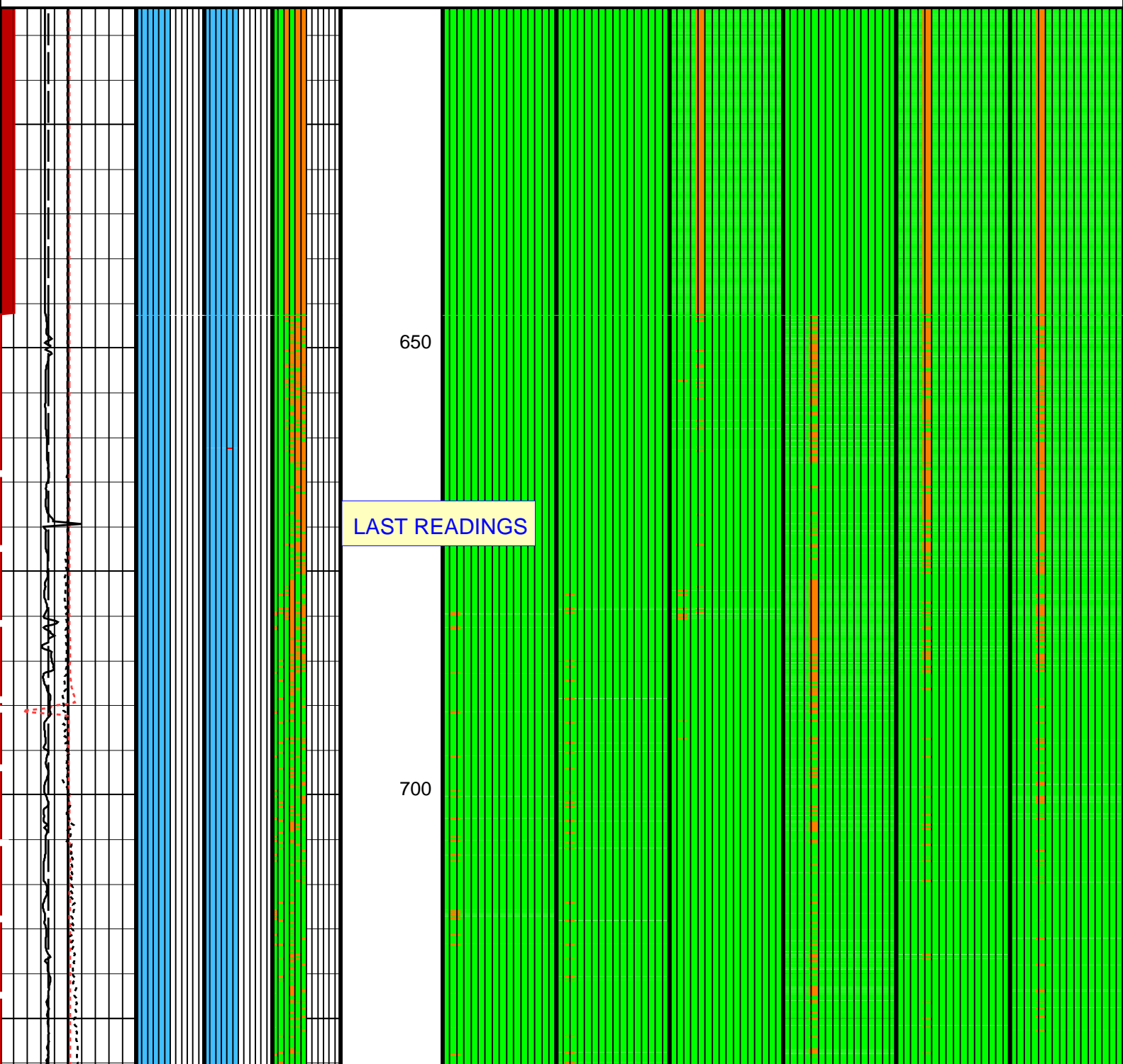
- < MAMS Auxiliary Data Status >
- < MAXS Auxiliary Data Status >
- < WFQC Summary Status >

- 0 bit : Measurement No.1 (From Left)
- 1 bit : Measurement No.2
- 2 bit : Measurement No.3
- 3 bit : Measurement No.4
- 4 bit : Measurement No.5
- 5 bit : Measurement No.6
- 6 bit : Measurement No.7
- 7 bit : Measurement No.8
- 8 bit : Measurement No.9
- 9 bit : Measurement No.10
- 10 bit : Measurement No.11
- 11 bit : Measurement No.12

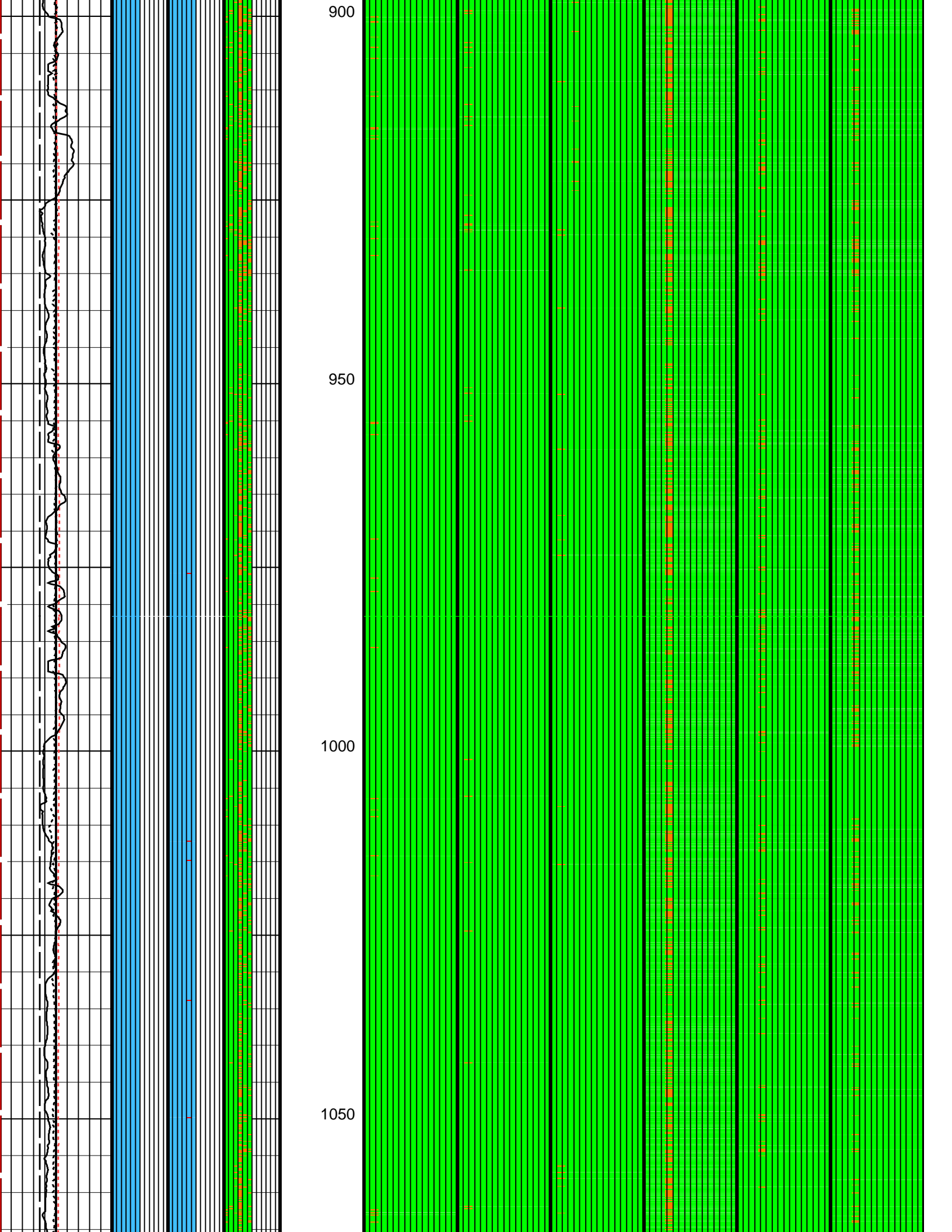
< WFQC Summary Status (Causes) >

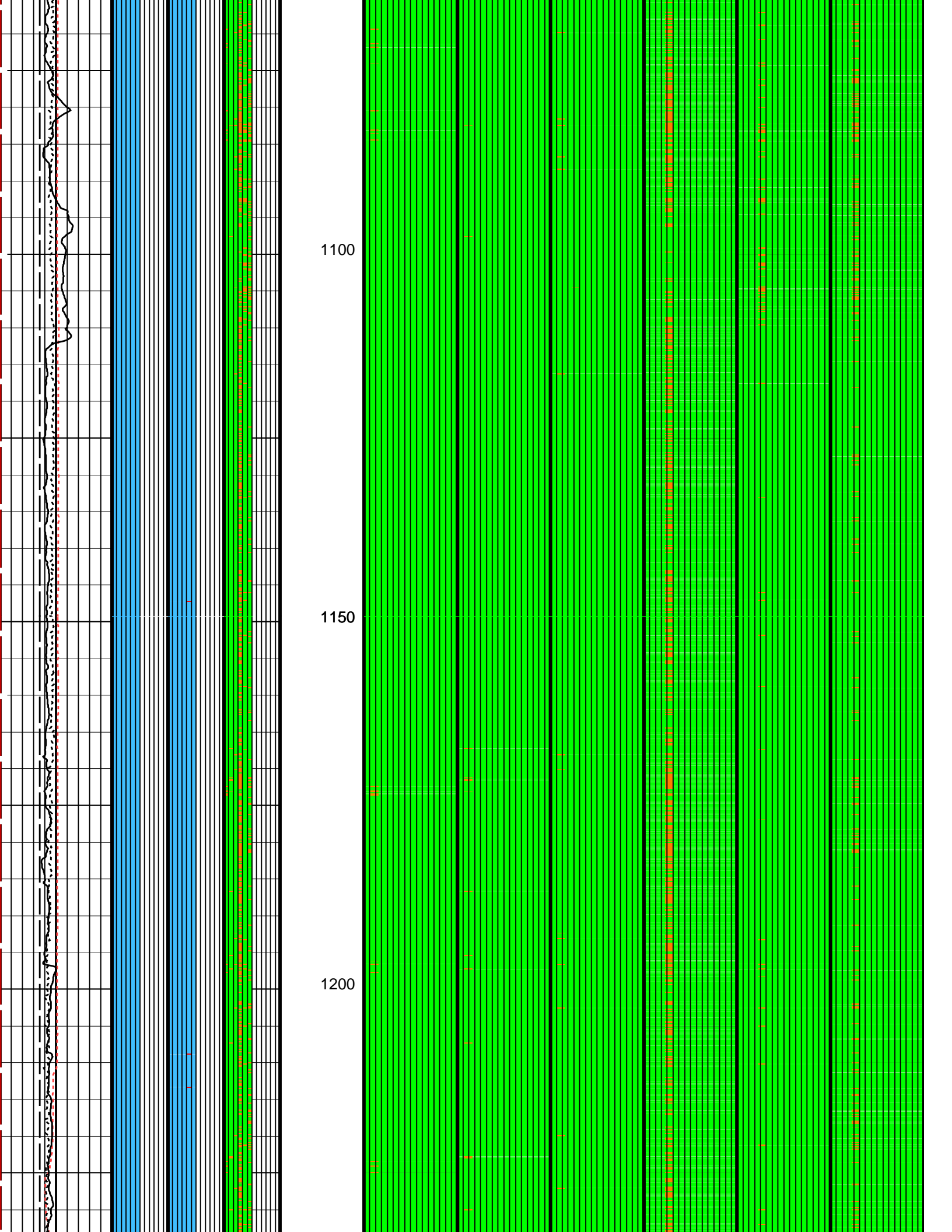
- 0 bit : Flat Waveform. (From Left)

- 1 bit : Clipped Waveform.
- 2 bit : Excessive Offset.
- 3 bit : Excessive Noise.
- 4 bit : Spikes.
- 5 bit : Inconsistent Waveform.
- 6 bit : Hardware Error.
- 7 bit : Not used.
- 8 bit : Not used.
- 9 bit : Not used.
- 10 bit : Not used.
- 11 bit : Not used.
- 12 bit : Not used.
- 13 bit : Not used.
- 14 bit : Dipole Contamination.
- 15 bit : High Mode Contamination.





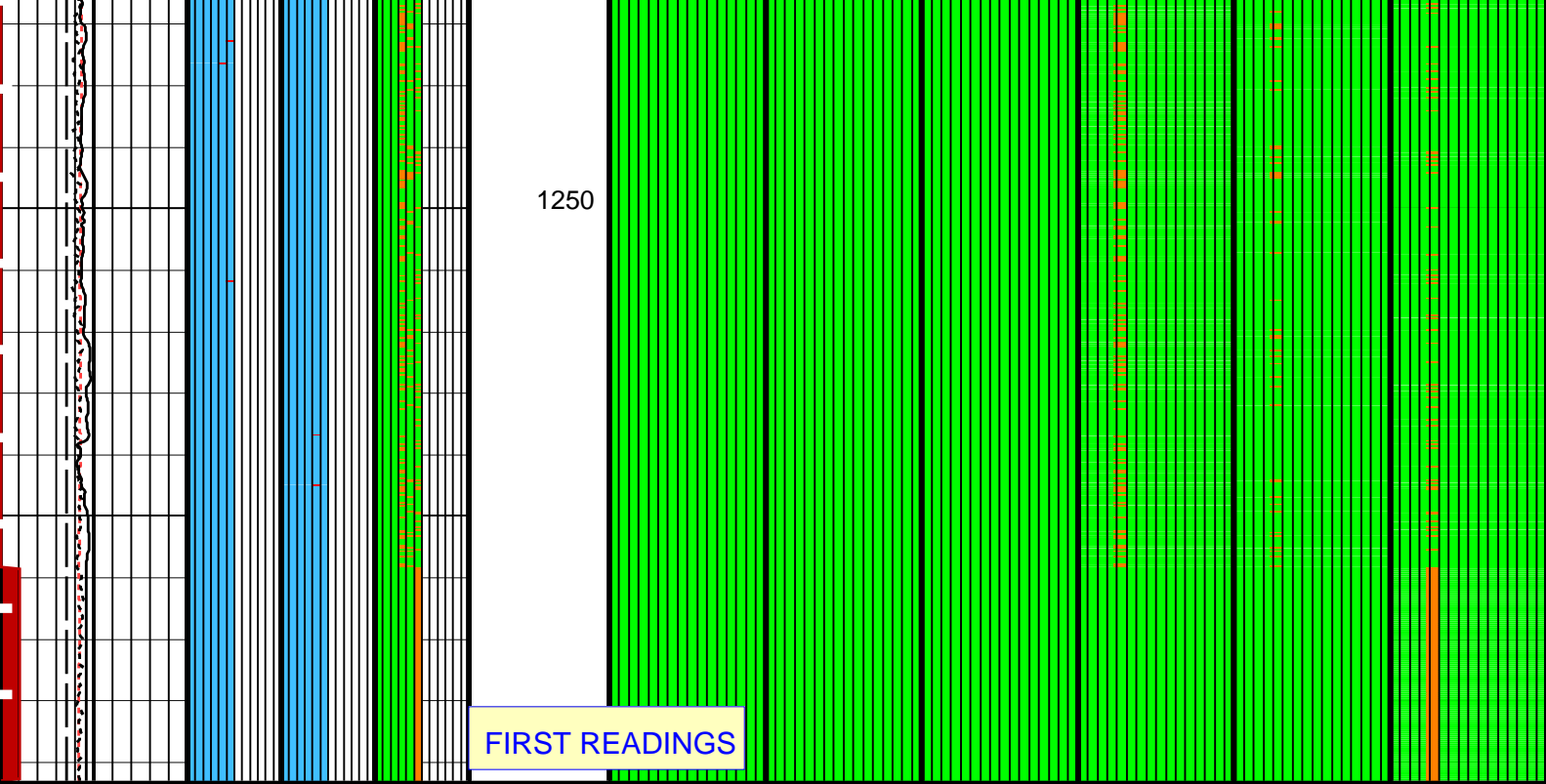




1100

1150

1200



***** MAST WFQC Flag Tracks *****

White = Absent Blue / Green = Good Red = Bad

< MAMS Auxiliary Data Status >

< MAXS Auxiliary Data Status >

< WFQC Summary Status >

- 0 bit : Measurement No.1 (From Left)
- 1 bit : Measurement No.2
- 2 bit : Measurement No.3
- 3 bit : Measurement No.4
- 4 bit : Measurement No.5
- 5 bit : Measurement No.6
- 6 bit : Measurement No.7
- 7 bit : Measurement No.8
- 8 bit : Measurement No.9
- 9 bit : Measurement No.10
- 10 bit : Measurement No.11
- 11 bit : Measurement No.12

< WFQC Summary Status (Causes) >

- 0 bit : Flat Waveform. (From Left)
- 1 bit : Clipped Waveform.
- 2 bit : Excessive Offset.
- 3 bit : Excessive Noise.
- 4 bit : Spikes.
- 5 bit : Inconsistent Waveform.
- 6 bit : Hardware Error.
- 7 bit : Not used.
- 8 bit : Not used.
- 9 bit : Not used.

- 10 bit : Not used.
- 11 bit : Not used.
- 12 bit : Not used.
- 13 bit : Not used.
- 14 bit : Dipole Contamination.
- 15 bit : High Mode Contamination.

Bit Size (BS) 275 (MM) 525	 MAPC Auxiliary Data Status Image (LQC_MAPC) (----)	 MAXS Auxiliary Data Status Image (LQC_MAXS) (----)	 MAST Waveform Quality Control Status Image (WFA1_STATU S) (----)	Stuck Stretch (STIT) 0 (M) 20	 MAST Waveform Quality Control Status Image 1 (LQC_WF1) (----)	 MAST Waveform Quality Control Status Image 2 (LQC_WF2) (----)	 MAST Waveform Quality Control Status Image 3 (LQC_WF3) (----)	 MAST Waveform Quality Control Status Image 4 (LQC_WF4) (----)	 MAST Waveform Quality Control Status Image 5 (LQC_WF5) (----)	 MAST Waveform Quality Control Status Image 6 (LQC_WF6) (----)
	Tension (TENS) 25000 (N) 0	Cable Drag From STIA to STIT			Cable Speed (CS) 0 (M/HR) 1000	Tool/Tot. Drag From D3T to STIA				
Sonic Porosity (SPHI) 0.6 (V/V) 0										
Data Copy Status Indicator 1 (DCSI1) 0 (----) 10										

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MAPC-B: Multimode Array Sonic Power Cartridge		
BS	Bit Size	361.950 MM
CDTS	C-Delta-T Shale	328.084 US/M
DTF	Delta-T Fluid	620.079 US/M
DTM	Delta-T Matrix	183.727 US/M
SPFS	Sonic Porosity Formula	RAYMER_HUNT
SPSO	Sonic Porosity Source	DTCO
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	0.4 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL

Format: MAST_WFQC_Format

Vertical Scale: 1:600

Graphics File Created: 09-Mar-2007 12:44

OP System Version: 14C0-302

MCM

FBST-B	14C0-302	PPC1-B	SKK-3060-PPCB
MAXS-B	SKK-3238-MAST	MAPC-B	SKK-3238-MAST
PPC1-B	SKK-3060-PPCB	DTF-B	SKK-3060-PPCB

Input DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_020LUP	FN:21	PRODUCER	09-Mar-2007 08:10	1296.0 M	636.9 M
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Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_029PUP	FN:34	PRODUCER	09-Mar-2007 12:43		
FMI_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:35	PRODUCER	09-Mar-2007 12:43		
MSIP_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:36	PRODUCER	09-Mar-2007 12:43		



CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Full-Bore Scanner – B Wellsite Calibration – Caliper Calibration							
Before: 7-Mar-2007 17:16							
Caliper 1 Small Jig	203.2	N/A	198.8	N/A	N/A	N/A	MM
Caliper 2 Small Jig	203.2	N/A	193.5	N/A	N/A	N/A	MM
Caliper 1 Large Jig	304.8	N/A	292.5	N/A	N/A	N/A	MM
Caliper 2 Large Jig	304.8	N/A	287.9	N/A	N/A	N/A	MM
Full-Bore Scanner – B Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 6-Mar-2007 16:09							
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	N/A
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	N/A
SERIAL NUMBER :	N/A	N/A	1071	N/A	N/A	N/A	N/A
Full-Bore Scanner – B Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 6-Mar-2007 16:09							
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	N/A
MONTH OF CALIBRATION :	N/A	N/A	11	N/A	N/A	N/A	N/A
SERIAL NUMBER :	N/A	N/A	760	N/A	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	55.8	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
Powered Positioning Device/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

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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Full–Bore Scanner – B / Equipment Identification

Primary Equipment:

FullBore Scanner Sonde	FBSS – B	886	886
FullBore Scanner Sonde Upper part	FBSH – A	979	979
FullBore Scanner Sonde Cartridge	FBSC – B		
GPIT Cartridge – C	GPIC – C	1943	1943
Insulating Sub	AH – 185	1726	1726
FullBore Scanner Control Cartridge	FBCC – A	894	894

Auxiliary Equipment:

Electronics Cartridge Housing	ECH – MRA	5701	5701
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Full–Bore Scanner – B Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig MM	Value	Phase	Caliper 2 Small Jig MM	Value	
Before		198.8	Before		193.5	
	172.7 (Minimum)	203.2 (Nominal)	233.7 (Maximum)	172.7 (Minimum)	203.2 (Nominal)	233.7 (Maximum)
Phase	Caliper 1 Large Jig MM	Value	Phase	Caliper 2 Large Jig MM	Value	
Before		292.5	Before		287.9	
	259.1 (Minimum)	304.8 (Nominal)	350.5 (Maximum)	259.1 (Minimum)	304.8 (Nominal)	350.5 (Maximum)

Before: 7–Mar–2007 17:16

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)
Phase	PPC1 Radius 3 Raw Small Radius MM	Value	Phase	PPC1 Radius 3 Raw Large Radius MM	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	PPC1 Radius 4 Raw Small Radius MM	Value	Phase	PPC1 Radius 4 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

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	PPC2 Radius 1 Raw Small Radius	MM	Value	Phase	PPC2 Radius 1 Raw Large Radius
Before			139.6	Before	
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)
					203.2 (Nominal)
					246.4 (Maximum)
Phase	PPC2 Radius 2 Raw Small Radius	MM	Value	Phase	PPC2 Radius 2 Raw Large Radius
Before			59.05	Before	
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)
					203.2 (Nominal)
					246.4 (Maximum)
Phase	PPC2 Radius 3 Raw Small Radius	MM	Value	Phase	PPC2 Radius 3 Raw Large Radius
Before			135.0	Before	
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)
					203.2 (Nominal)
					246.4 (Maximum)
Phase	PPC2 Radius 4 Raw Small Radius	MM	Value	Phase	PPC2 Radius 4 Raw Large Radius
Before			75.27	Before	
	30.48 (Minimum)	88.90 (Nominal)	142.2 (Maximum)		154.9 (Minimum)
					203.2 (Nominal)
					246.4 (Maximum)

Before: 5-Mar-2007 19:34

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:
 Enhanced DTS Cartridge

EDTC - B

Auxiliary Equipment:
 EDTC Housing

EDTH - B

8253

8253

Enhanced DTS Cartridge Wellsite Calibration									
Detector Calibration									
Phase	Gamma Ray Background	GAPI	Value	Phase	Gamma Ray (Jig - Bkg)	GAPI	Value	Phase	Gamma Ray (Calibrated)
Before			5.155	Before			159.1	Before	
	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
Before		Value
	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**

SONIC SCANNER