

[illegible][illegible]

1

[illegible][illegible][illegible][illegible]

OTHER SERVICES1	OTHER SERVICES2
OS1: 1.ZAIT-HRLT-EMS-GPI	OS1:
OS2: 2.APS-PEX-CMR-ECS	OS2:
OS3: HNCS	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	

WIPER TRIP PERFORMED BETWEEN RUN2 AND RUN3. DURING THIS TIME,  
DURING THIS TIME, BOTTOM OF HOLE OPENED UP FROM 9.875" TO 12.25"

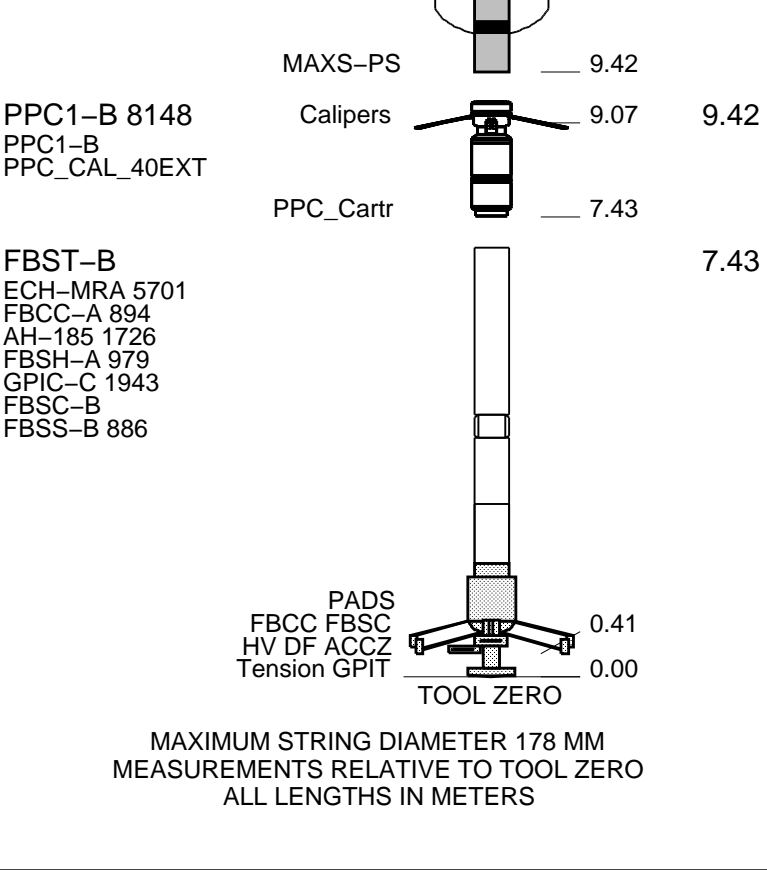
DID NOT TAG TD WITH FMI

CREW: JAMES MACDONALD / MARK KIMBALL / MIKE KLOC

[illegible]

## WITM (EDTS)-A

LEH-QT			27.08
LEH-QT			
EDTC-B 8265	Mud Tempe	_____ 26.19	26.19
EDTH-B 8253	CTEM	_____ 25.13	
EDTC-B	Gamma Ray	_____ 24.56	
	EDTCB Ele	_____ 24.21	
PPC2-B 8149	Calipers	_____ 23.86	24.21
PPC2-B			
PPC_CAL_40EXT			
	PPC_Cartr	_____ 22.23	
AH-255(+45D) 8053			22.23
MAPC-B			22.00
MAPC-BA 8806			
ECH-SF 8806			
MAMS-BA 8012			
	MAMS-PS	_____ 17.30	
MAXS-B			15.59
MASS-BA 8002			
MAXS-BA 8006			



MAIN PASS: FULLBORE  
FORMATION MICRO-IMAGER

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
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

Cable Tension (TENS)	
25000 (N)	0
Head Tension (CDE)	

(CDP) -1000 (N) 9000

Caliper  
Undersize

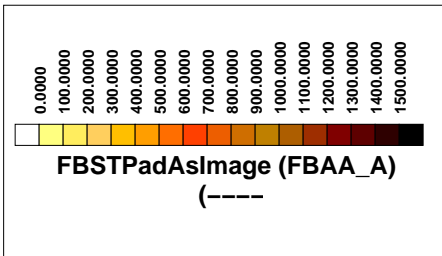
Caliper 2 (C2)  
275 (MM) 525

Caliper 1 (C1)  
275 (MM) 525

Bit Size (BS)  
275 (MM) 525

Caliper Oversize

Cable  
Speed  
(CS)  
(M/HR)  
0  
1000



Gamma Ray (GR\_EDTC)  
(GAPI) 0 150

ANOR Flag

FNOR Flag

Gamma Ray (GR\_EDTC)  
0 (GAPI) 150

Magnetometer  
Norme (FNOR)  
0.2 (OER) 0.7

Accelerometer  
Norme (ANOR)  
9 (M/S2) 11

Tool  
Drag

Cable  
Drag

Stuck  
Tool  
Indicator,  
Adjusted (STIA)  
(M)  
0 20

Stuck  
Stretch  
(STIT)  
(M)  
0 20

SDEV - LEFT  
(SDEV)  
(----

HAZI - RIGHT  
(HAZI)  
(----

Relative Bearing  
(RB)  
-180 (DEG) 180

Pad One Azimuth  
(P1AZ\_FBST)  
-40 (DEG) 360

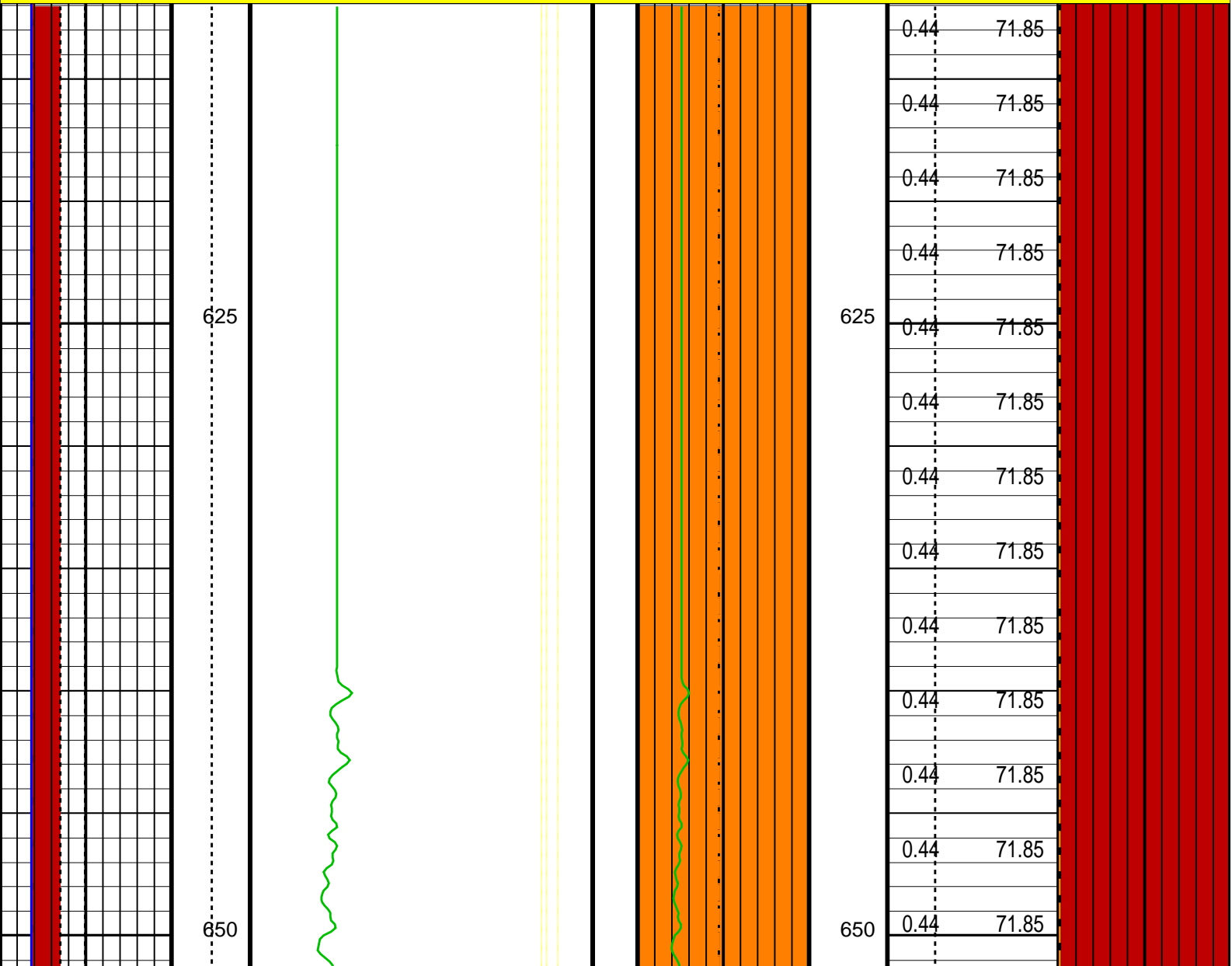
Pad Press. Too  
Low

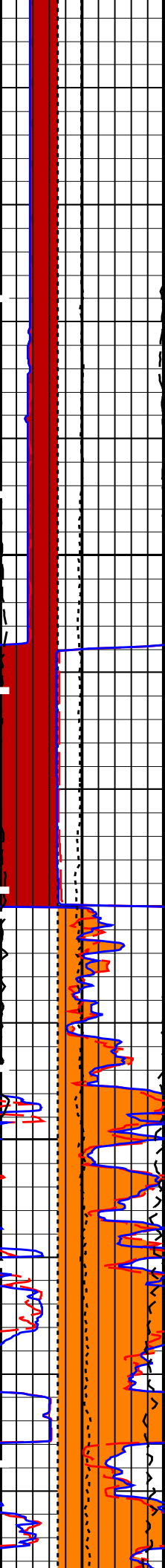
EMEX Low Flag

Pad Pressure (PP)  
0 (----) 50

EMEX Voltage  
(EV)  
0 (V) 50

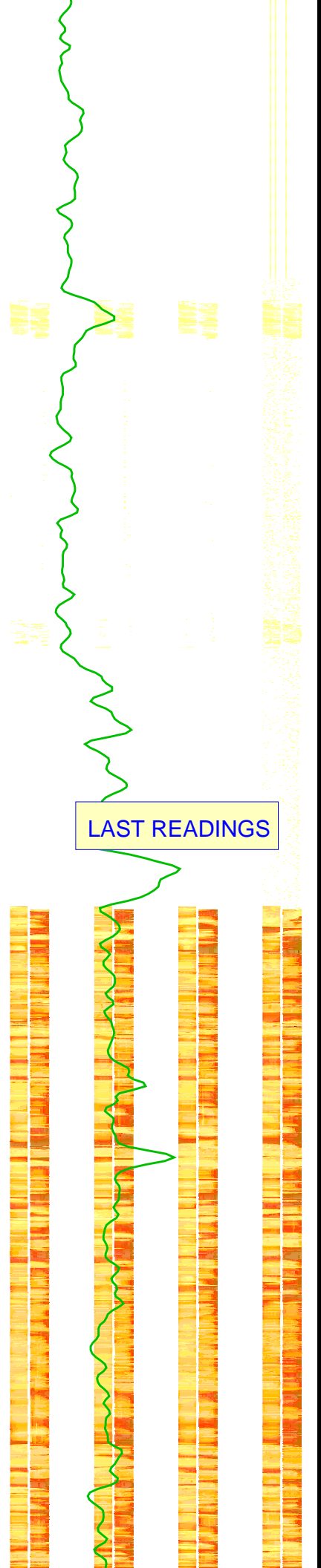
FMI GPIT LQC





675

700



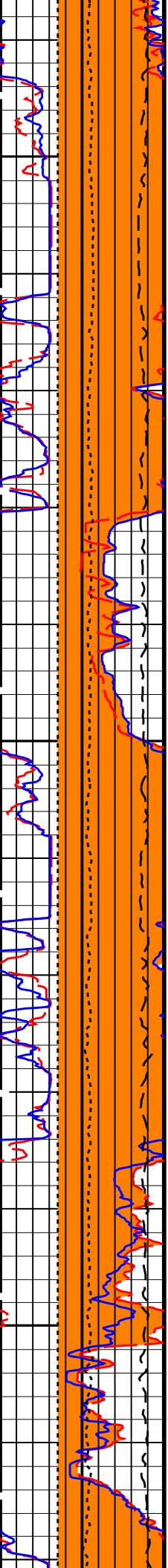
LAST READINGS



675

700

0.44	71.85
0.44	71.85
0.44	71.85
0.44	71.85
0.58	62.74
0.76	58.16
0.94	61.50
1.11	59.70
1.33	126.91
0.95	1135.76
0.70	138.02
0.67	146.00
0.66	189.58
0.60	181.13
0.62	161.22
0.81	159.09
1.01	162.18
1.05	170.26
0.98	168.05
0.80	176.89
0.79	187.93
0.83	189.88



725

750

775

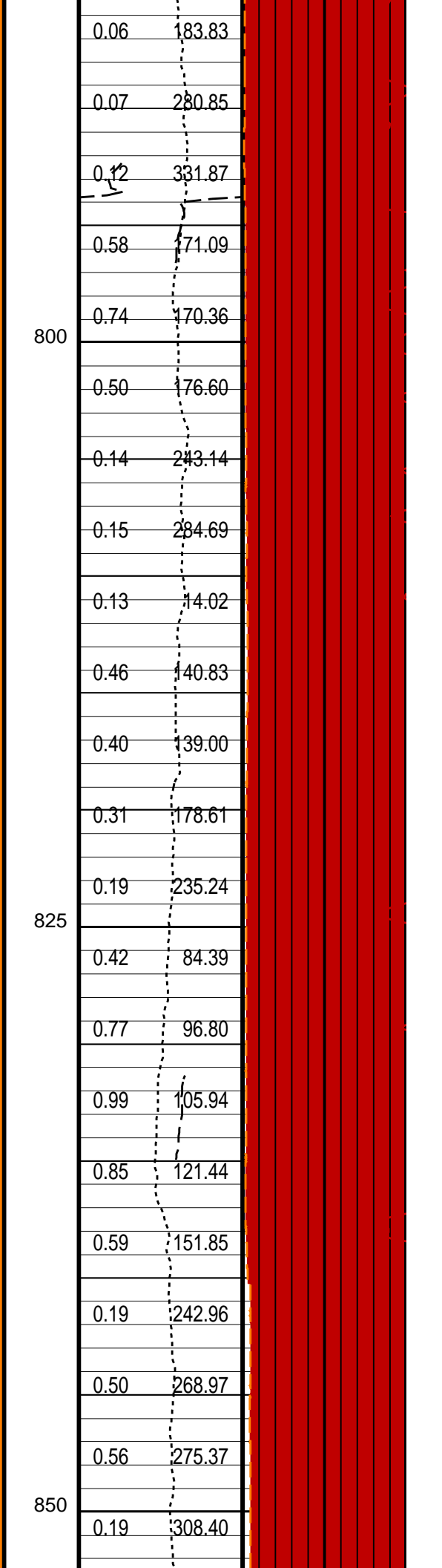
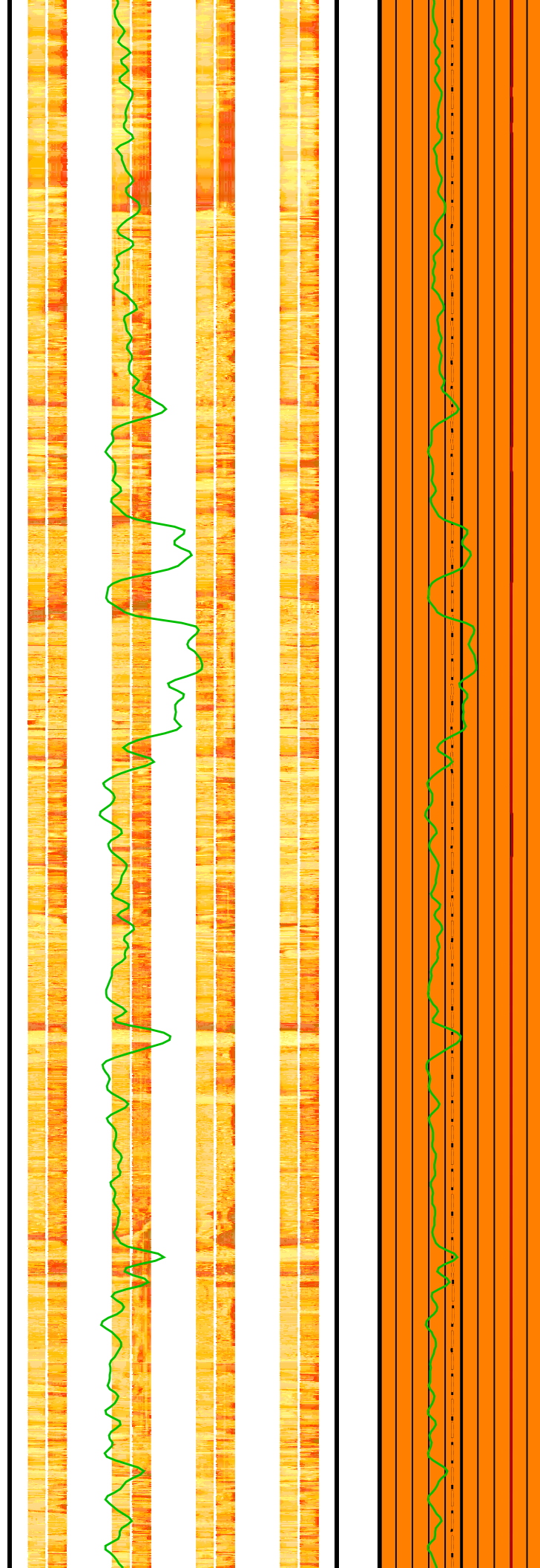
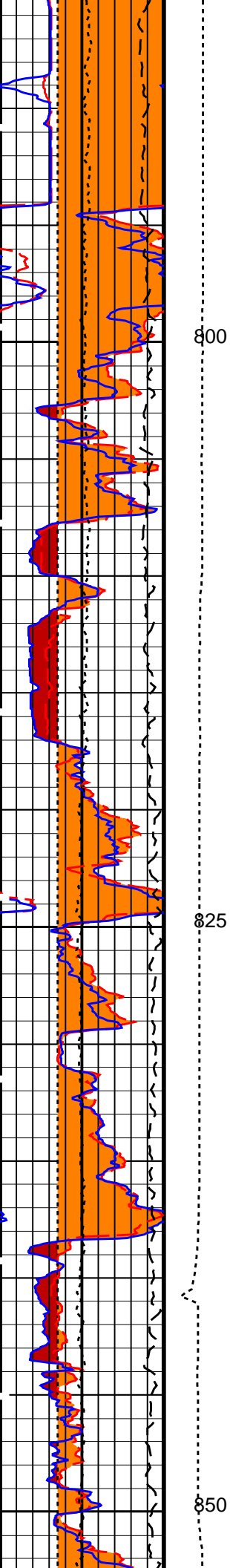


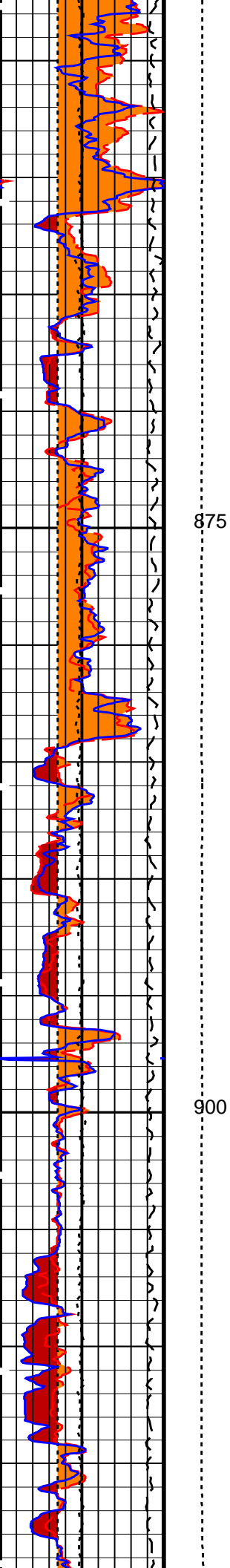
725

750

775

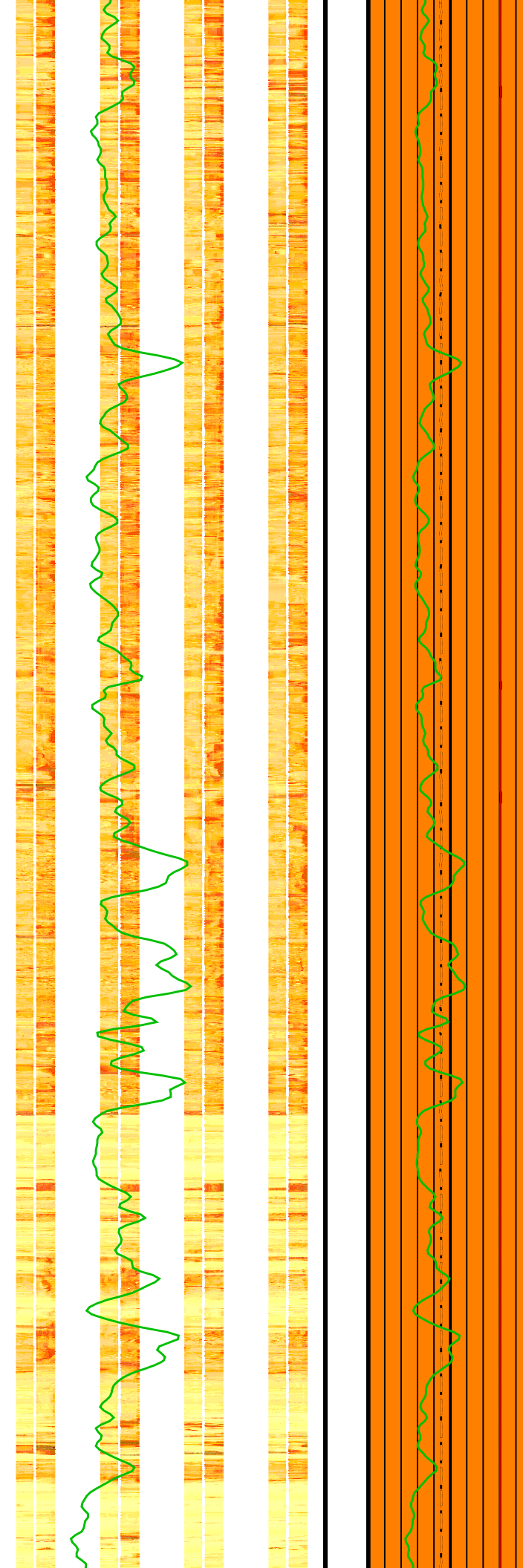
0.71	199.79
0.69	195.79
0.53	190.84
0.46	203.06
0.72	189.22
0.76	185.84
0.88	179.52
0.69	180.22
0.56	185.67
0.43	191.50
0.41	184.47
0.35	217.61
0.33	226.38
0.45	234.30
0.44	226.68
0.44	232.08
0.26	246.00
0.14	242.62
0.17	199.89
0.09	145.35
0.13	170.93
0.14	168.55





875

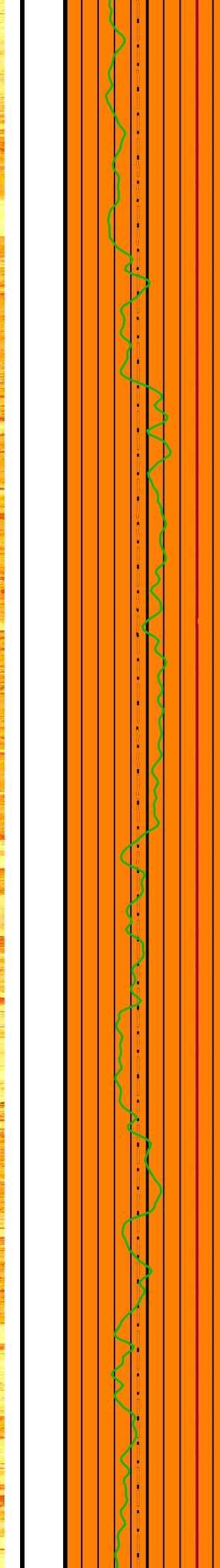
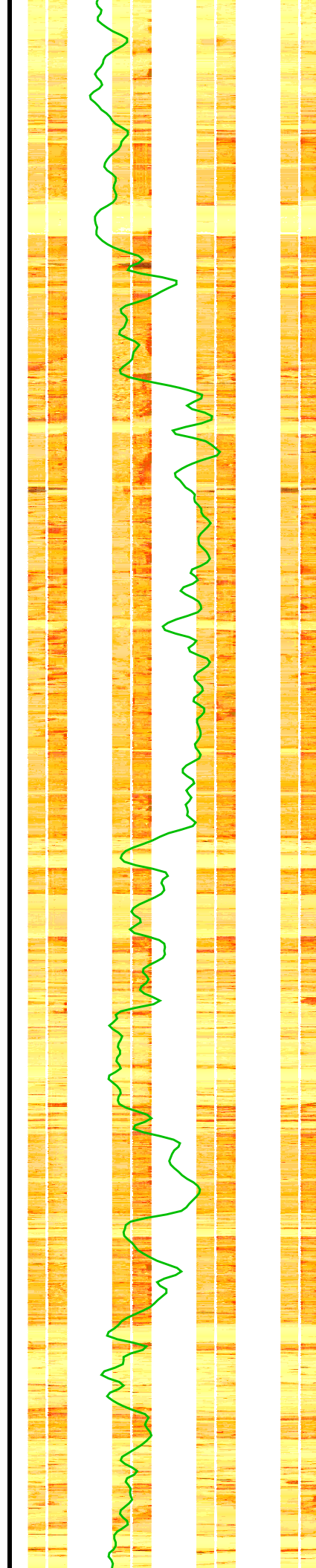
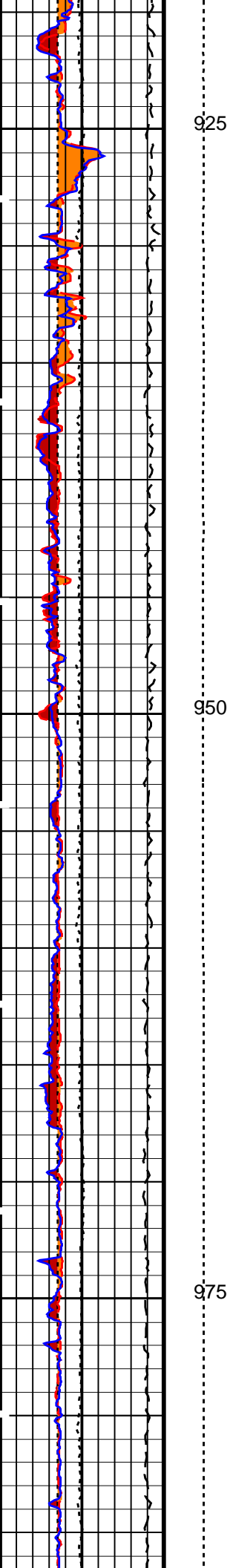
900



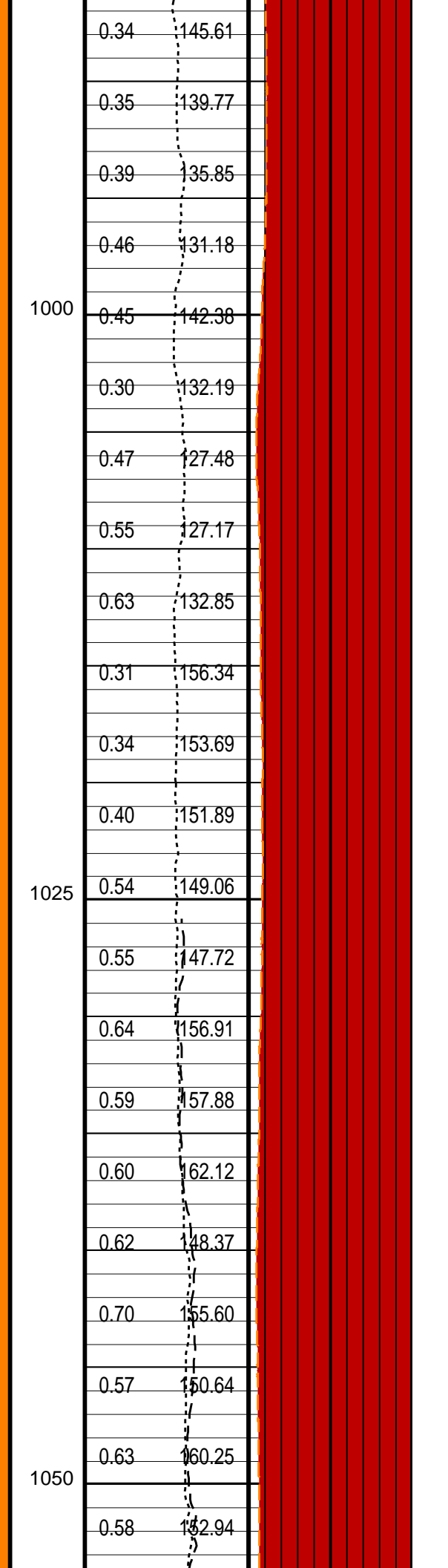
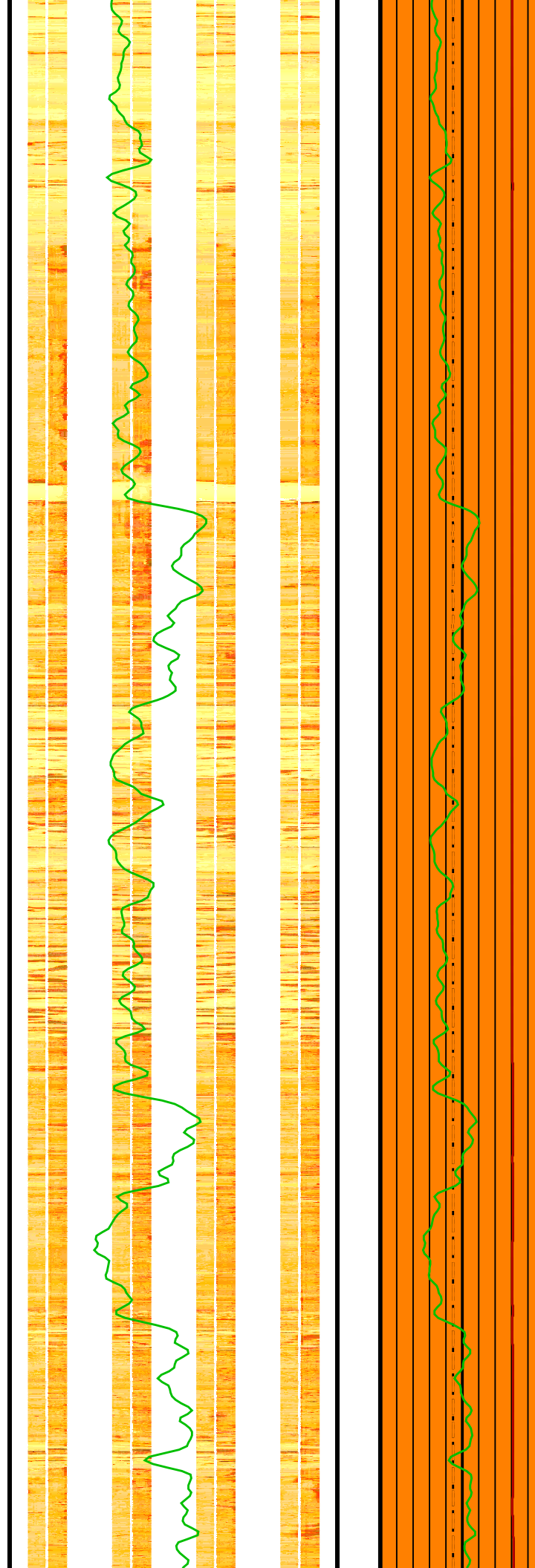
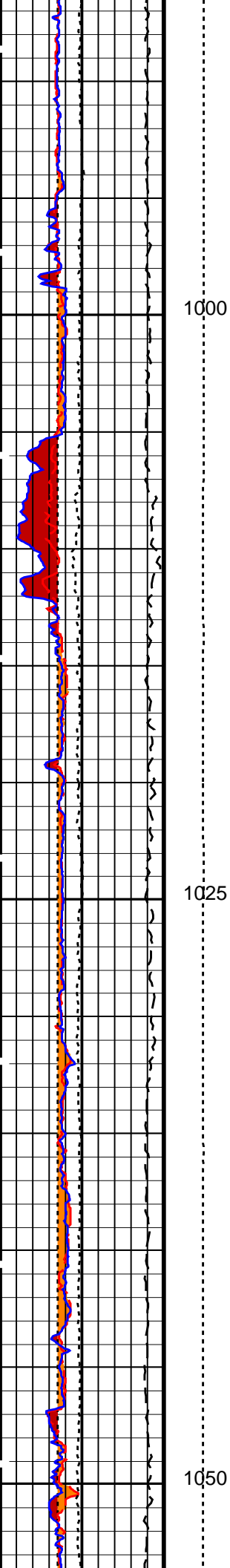
875

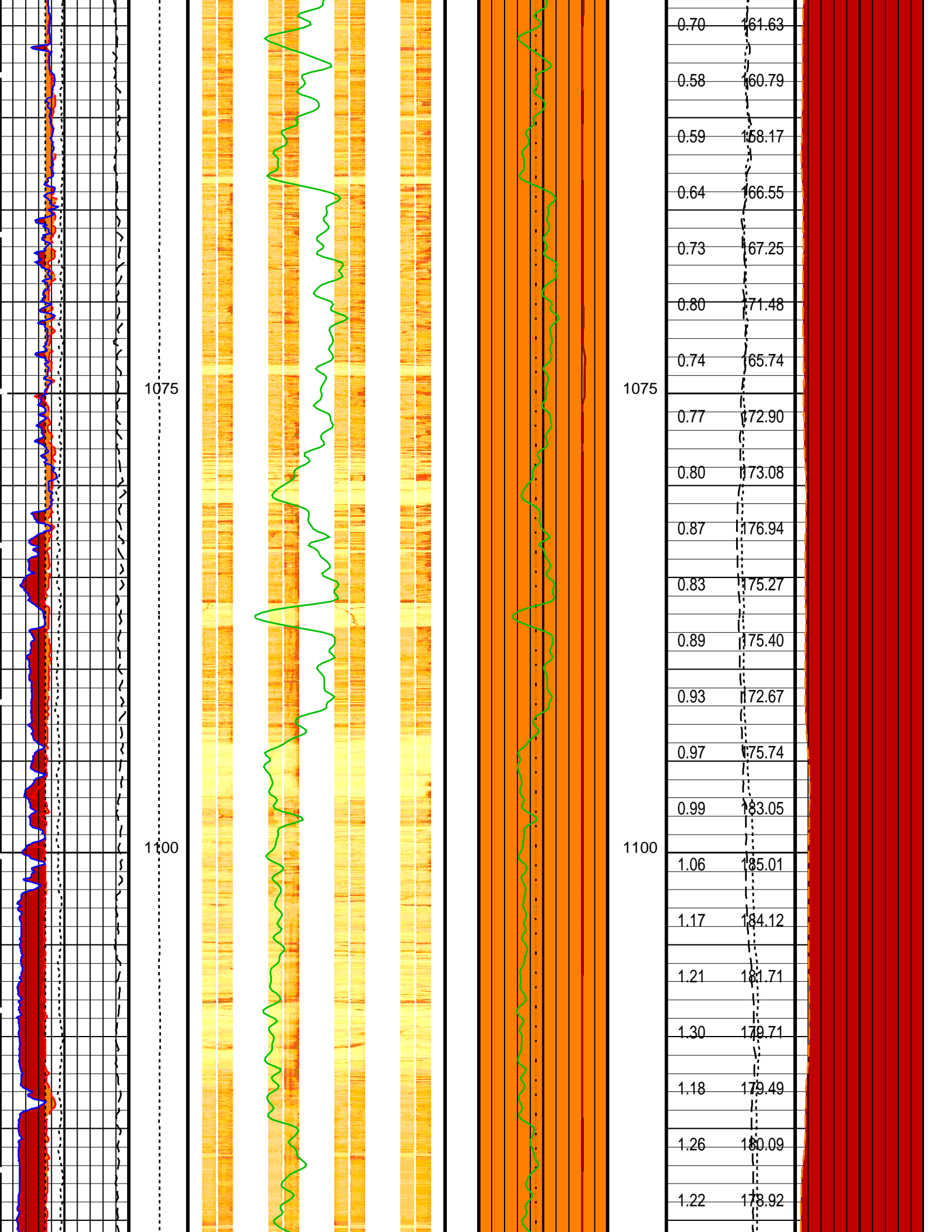
900

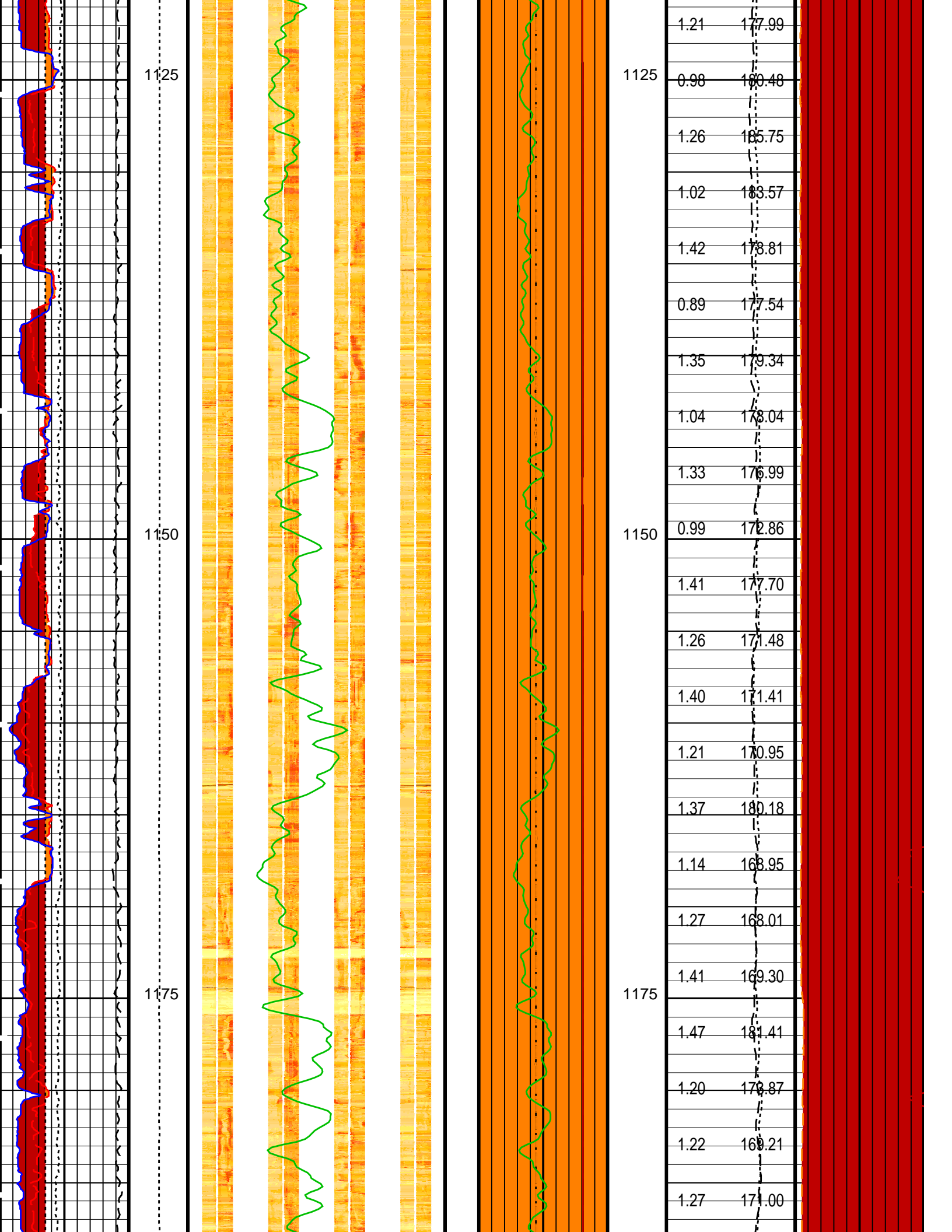
0.21	351.29
0.32	58.93
0.44	91.23
0.44	90.89
0.32	90.68
0.25	38.28
0.26	36.96
875	
0.33	21.23
0.08	311.91
0.16	79.95
0.38	105.51
0.50	77.53
0.30	50.80
0.35	27.38
0.43	17.35
900	
0.63	56.20
0.61	67.84
0.61	70.29
0.67	65.61
0.68	61.82
0.55	59.22
0.37	57.43

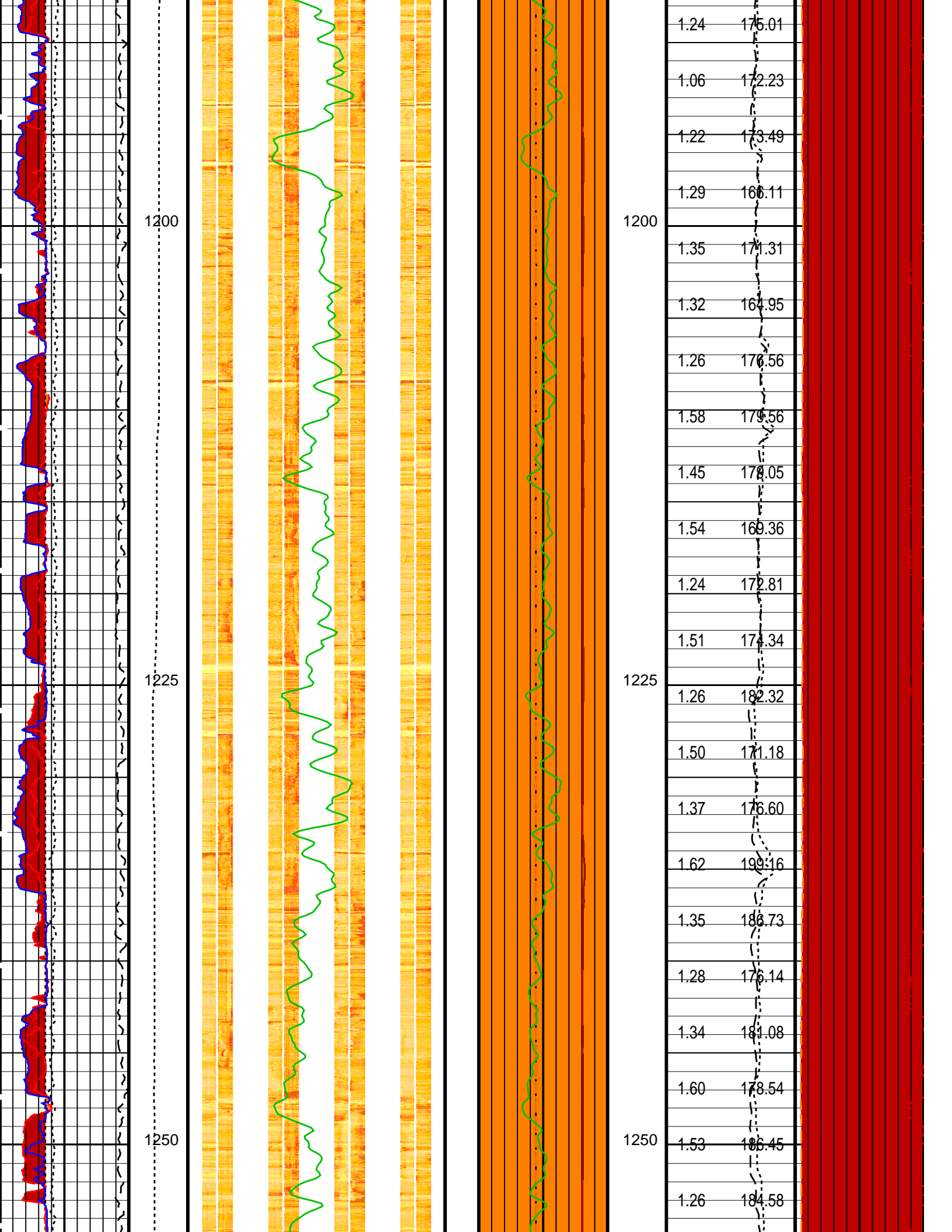


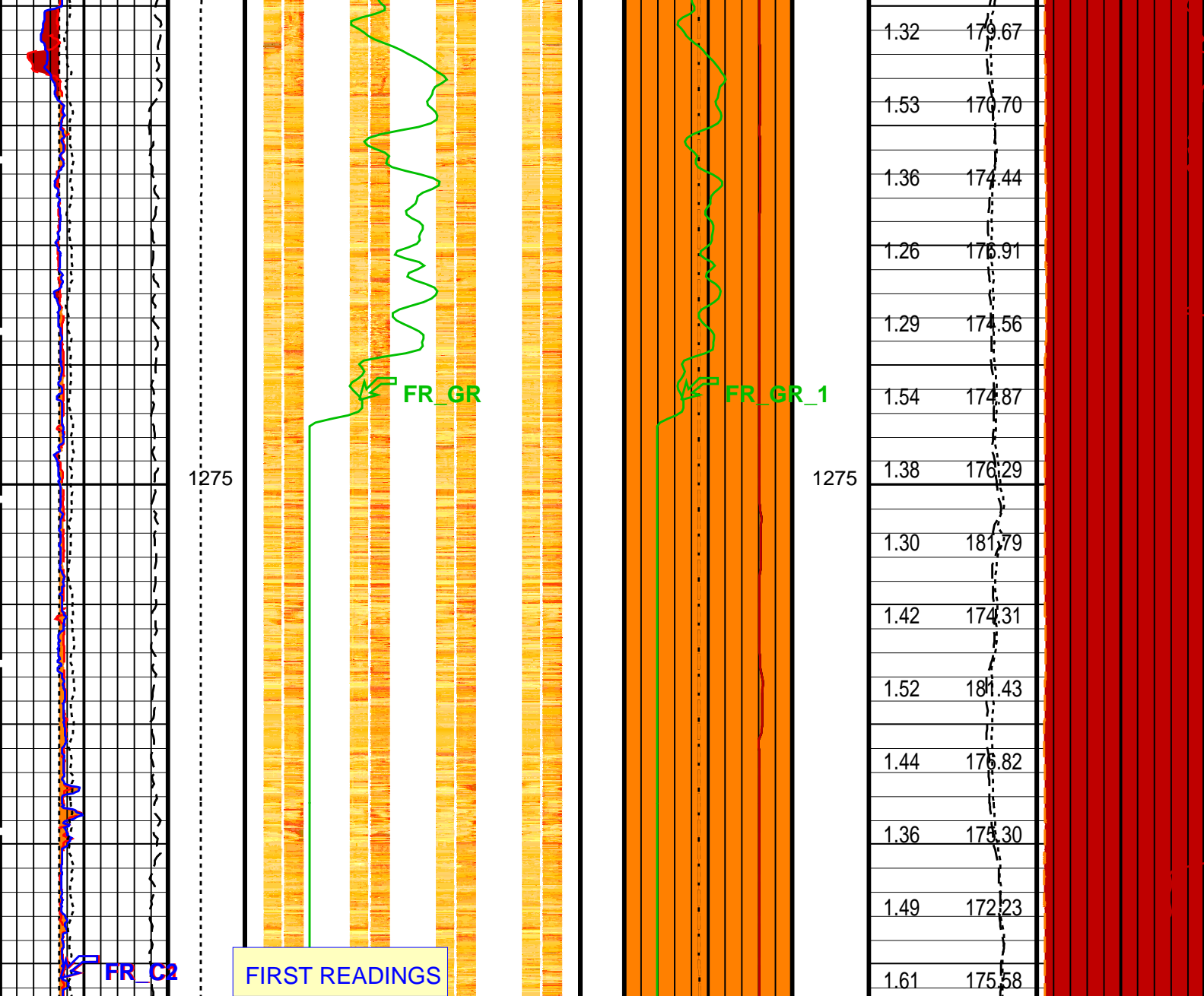
0.34	63.87
0.34	67.62
925	
0.28	51.55
0.36	53.23
0.42	55.55
0.56	65.32
0.50	73.25
0.45	78.48
0.33	105.17
0.32	91.94
950	
0.28	71.71
0.27	63.52
0.27	69.39
0.32	86.20
0.31	90.70
0.38	100.84
0.34	128.19
0.31	139.32
975	
0.32	134.57
0.32	119.31
0.34	134.53
0.24	155.83











# FMI GPIT LQC

Caliper Oversize	Cable Speed (CS) (M/HR) 0 1000	Gamma Ray (GR_EDTC) (GAPI) 0 150	Accelerometer Norme (ANOR) (M/S2) 9 11	Stuck Stretch (STIT) (M) 0 20	Pad One Azimuth (P1AZ_FBST) (-40 (DEG) 360)	EMEX Voltage (EV) (V) 0 50
Bit Size (BS) 275 (MM) 525		FBSTPadAsImage (FBAA_A) (-----) 0.0000 100.0000 200.0000 300.0000 400.0000 500.0000 600.0000 700.0000 800.0000 900.0000 1000.0000 1100.0000 1200.0000 1300.0000 1400.0000 1500.0000	Magnetometer Norme (FNOR) (OER) 0.2 0.7	Stuck Tool Indicator, Adjusted (STIA) (M) 0 20	Relative Bearing (RB) (-180 (DEG) 180)	Pad Pressure (PP) (-----) 0 50
Caliper 1 (C1) 275 (MM) 525			Gamma Ray (GR_EDTC) (GAPI) 0 150	Cable Drag	HAZI - RIGHT (HAZI) (-----)	EMEX Low Flag
Caliper 2 (C2) 275 (MM) 525			FNOR Flag	Tool Drag	SDEV - LEFT (SDEV) (-----)	Pad Press. Too Low
Caliper Undersize			ANOR Flag			

Head Tension (CDF)
-1000 (N) 9000
Cable Tension (TENS)
25000 (N) 0

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
FBST-B: Full-Bore Scanner – E		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
EGCO	FMI EMEX and GAIN Correction	NO
FBEF	FMI EMEX filtering activation	OFF
FDBD	FMI Dead Buttons detection	OFF
FDBP	FMI Dead Buttons Patching	OFF
FIEQ	FMI Image Equalisation	OFF
FLM	FMI Logging Mode	8PAD
FPSA	FMI Peak Signal Amplitude for Required Servo Level	ON
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION
MDEC	Magnetic Field Declination	28.7957 DEG
XGAI_FBST	Gain Value in Manual Mode	0_dB
XGMO	EMEX & Gain Modes	EmexManu_GainManu
XVOL	EMEX Voltage	0 V
MAPC-B: Multimode Array Sonic Power Cartridge		
BS	Bit Size	361.950 MM
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		
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth
DO	Depth Offset for Playback	0.4 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PBVSADP	Use alternate depth channel for playback	NO
PP	Playback Processing	NORMAL

Format: FMI-GPIT-Field-LQC      Vertical Scale: 1:24C      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 SECTION: FULLBORE  
FORMATION MICRO-IMAGER

DEFAULT	FMI CAL MAXS MAPC 022LUP	FN:25	PRODUCER	09-Mar-2007 10:00	1179.6 M	806.5 M
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DEFAULT	FMI_CAL_MAXS_MAPC_026PUP	FN:29	PRODUCER	09-Mar-2007 11:47	1180.0 M	781.5 M
FMI_ONLY	FMI_CAL_MAXS_MAPC_026PUP	FN:30	PRODUCER	09-Mar-2007 11:47	1180.0 M	781.5 M
MSIP ONLY	FMI CAL MAXS MAPC 026PUP	FN:31	PRODUCER	09-Mar-2007 11:47	1180.0 M	781.5 M

## 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

**Time Mark Every 60 S**

Cable Tension  
(TENS)

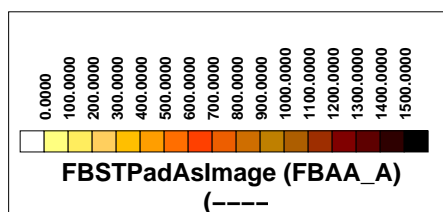
Head Tension  
(CDF)

### Caliper Undersize

<b>Caliper 2 (C2)</b>		
<b>275</b>	<b>(MM)</b>	<b>525</b>

**Caliper 1 (C1)**  
**275 (MM) 525**

Bit Size (BS)  
275 (MM) 525



## Caliper Oversize

Cable  
Speed  
(CS)  
(M/HR)

Gamma Ray (GR_EDTC)	
0	150
(GAPI)	

## ANOR Flag

## FNOR Flag

Gamma Ray (GR_		
EDTC)		
0	(GAPI)	150

Magnetometer Norme (FNOR)		
0.2	(OER)	0.7

Accelerometer	
Norme (ANOR)	
9	11
(M/S <sup>2</sup> )	

**Tool Drag**

## Cable Drag

Stuck Tool Indicator, Adjusted (STIA) (M)
0 20

Stuck Stretch (STIT) (M)	
0	20

**SDEV – LEFT**  
(SDEV)  
(----

HAZI – RIGHT  
(HAZI)  
(----

Relative Bearing  
(RB)

-180 (DEG) 180

Pad One Azimuth  
(P1AZ\_FBST)  
-----  
-40 (DEG) 360

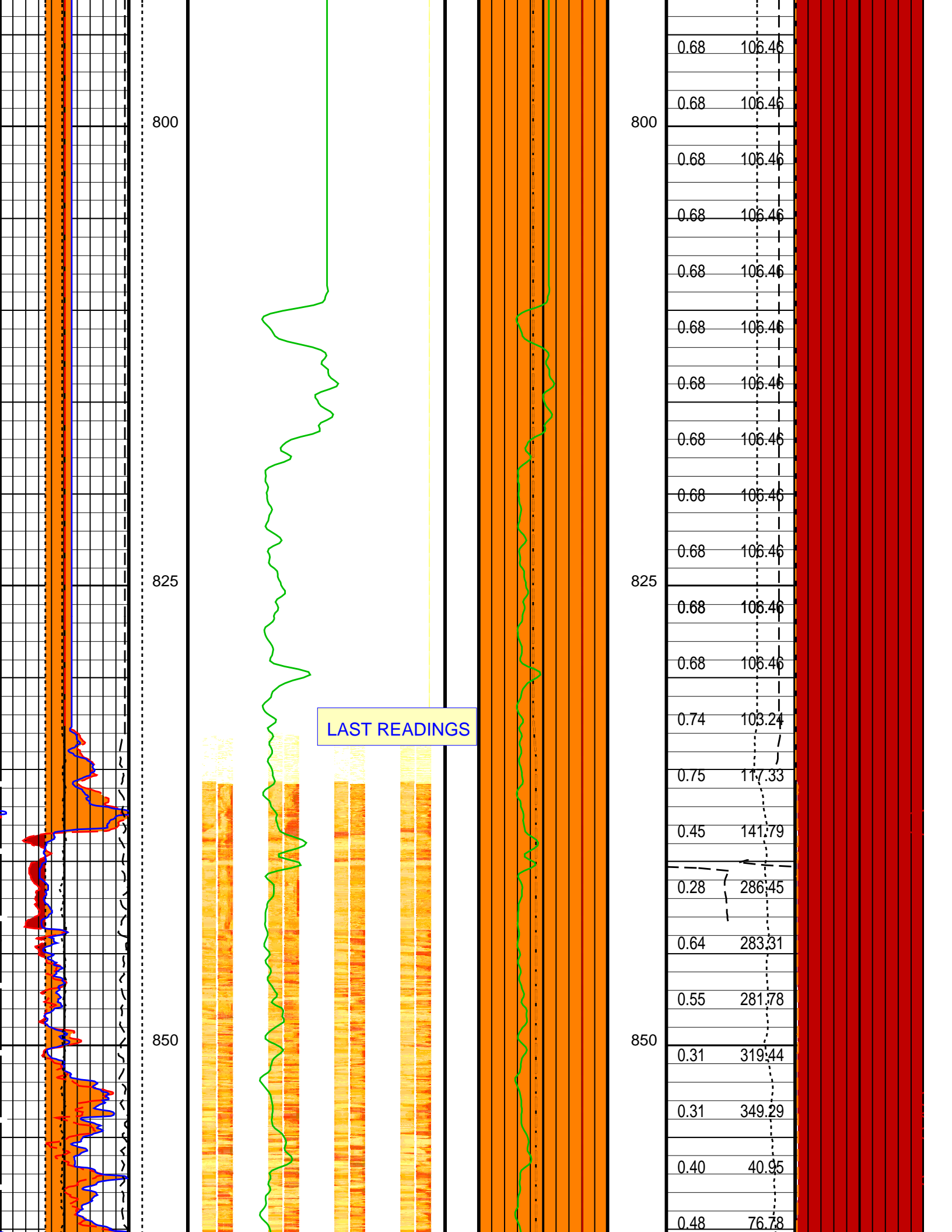
### Pad Press. Too Low

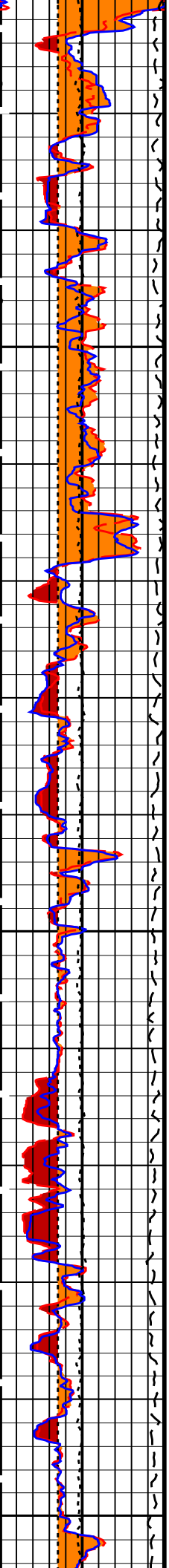
## EMEX Low Flag

**Pad Pressure (PP)**  
0 (---- 50

EMEX Voltage  
(EV)  
(V) 50

FMI GPIT LQC

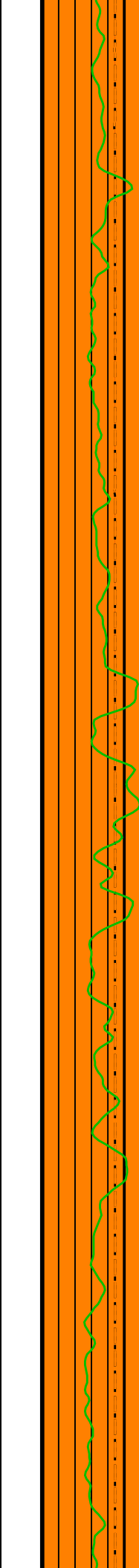
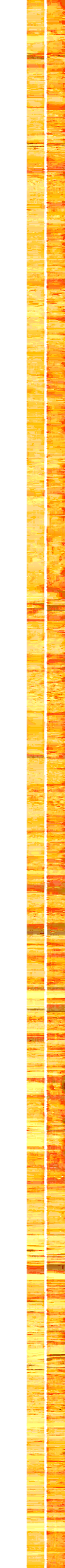
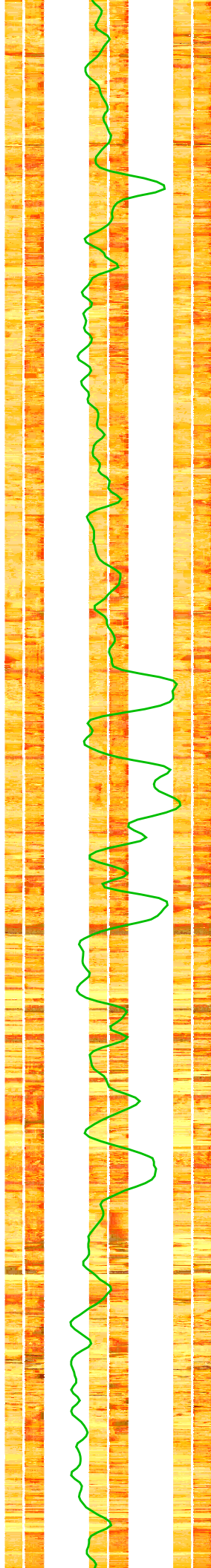




875

900

925

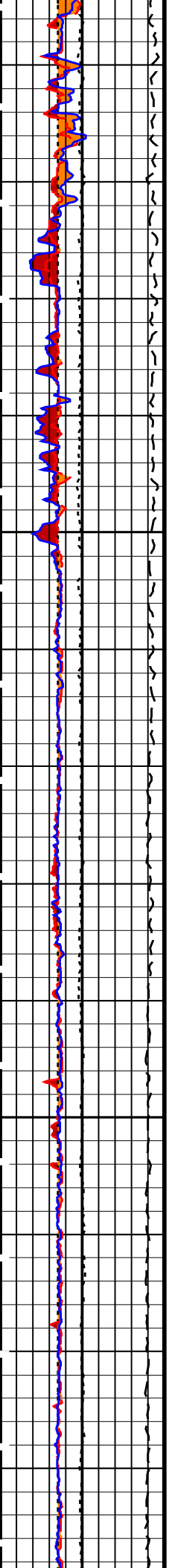


875

900

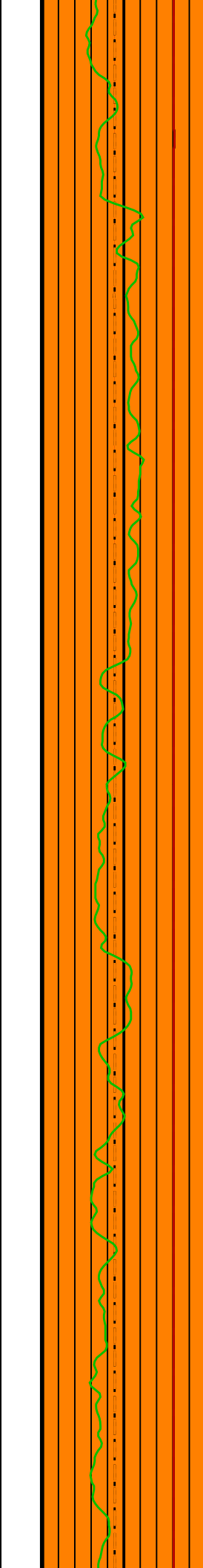
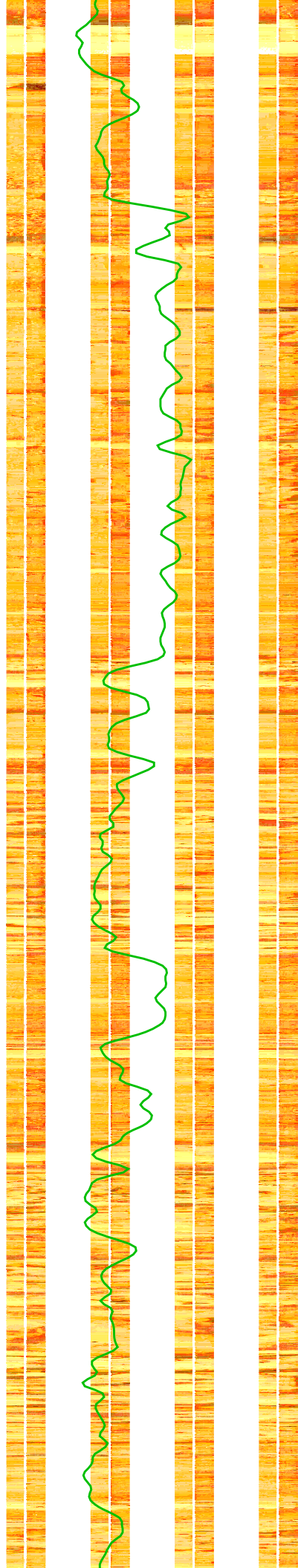
925

0.43	77.76
0.31	66.54
0.38	26.46
0.35	21.44
0.43	14.10
0.17	345.18
0.20	61.12
0.39	81.73
0.55	59.85
0.41	16.54
0.47	269.05
0.54	7.17
0.62	39.62
0.56	49.48
0.54	51.66
0.62	47.47
0.64	48.57
0.46	46.82
0.30	42.22
0.25	47.56
0.25	52.00
0.22	28.92



950

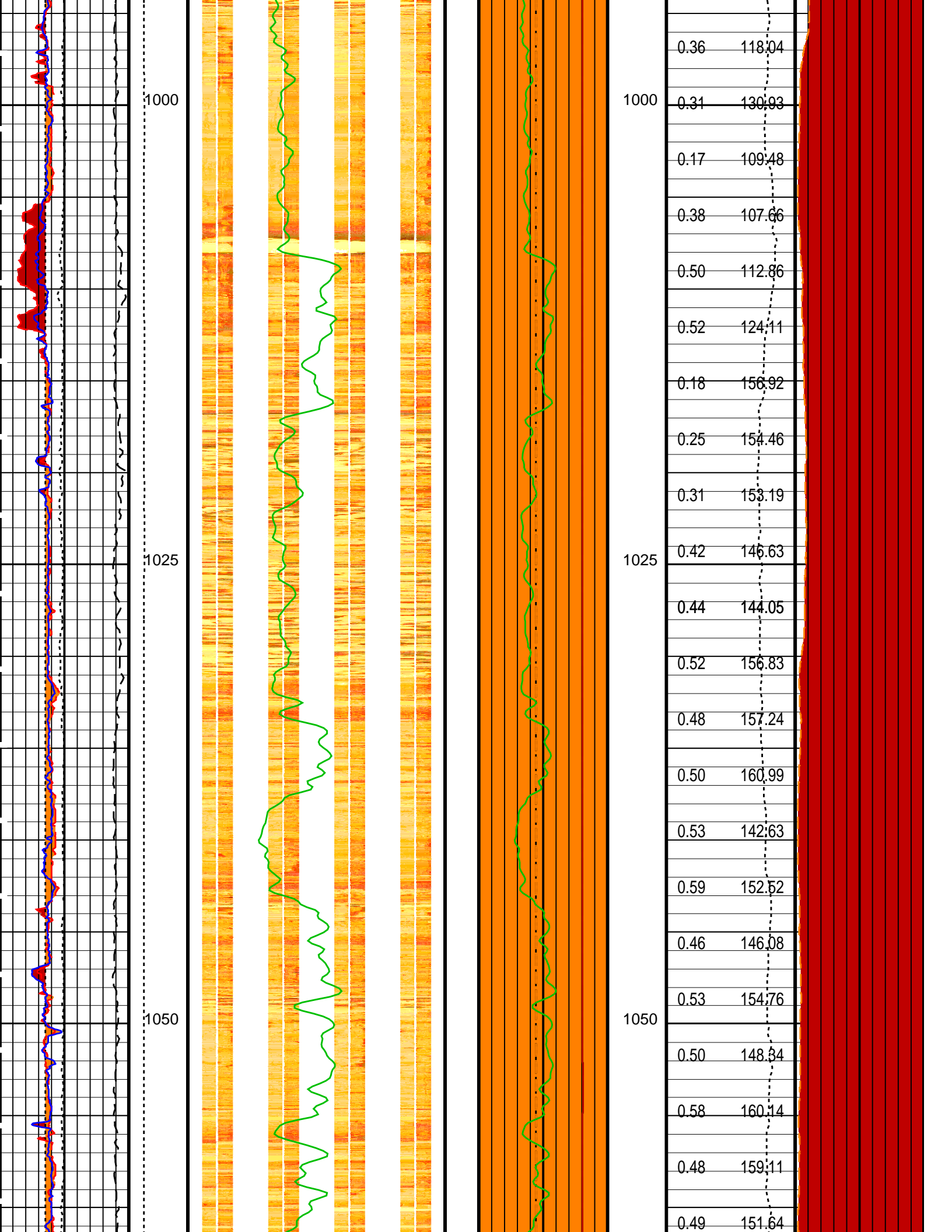
975

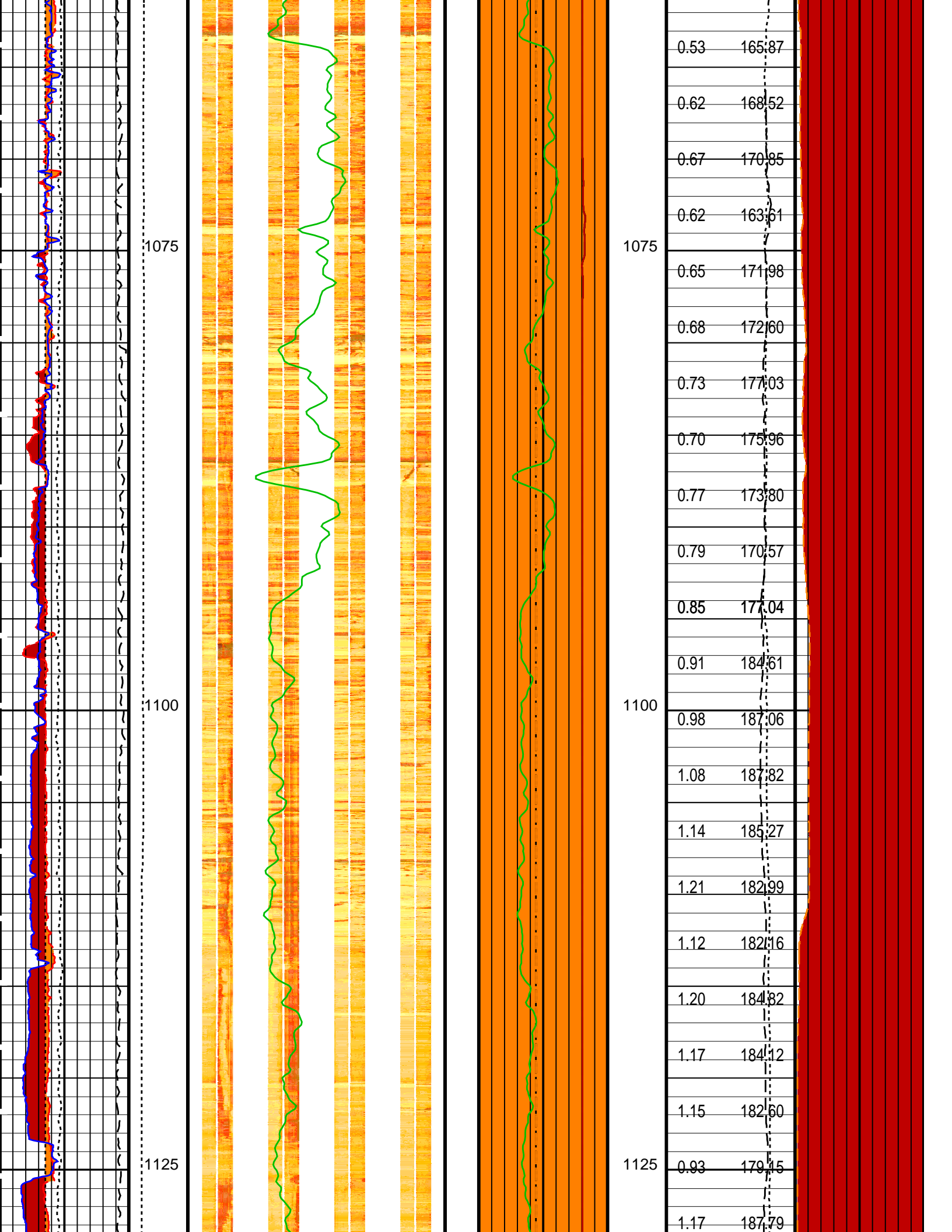


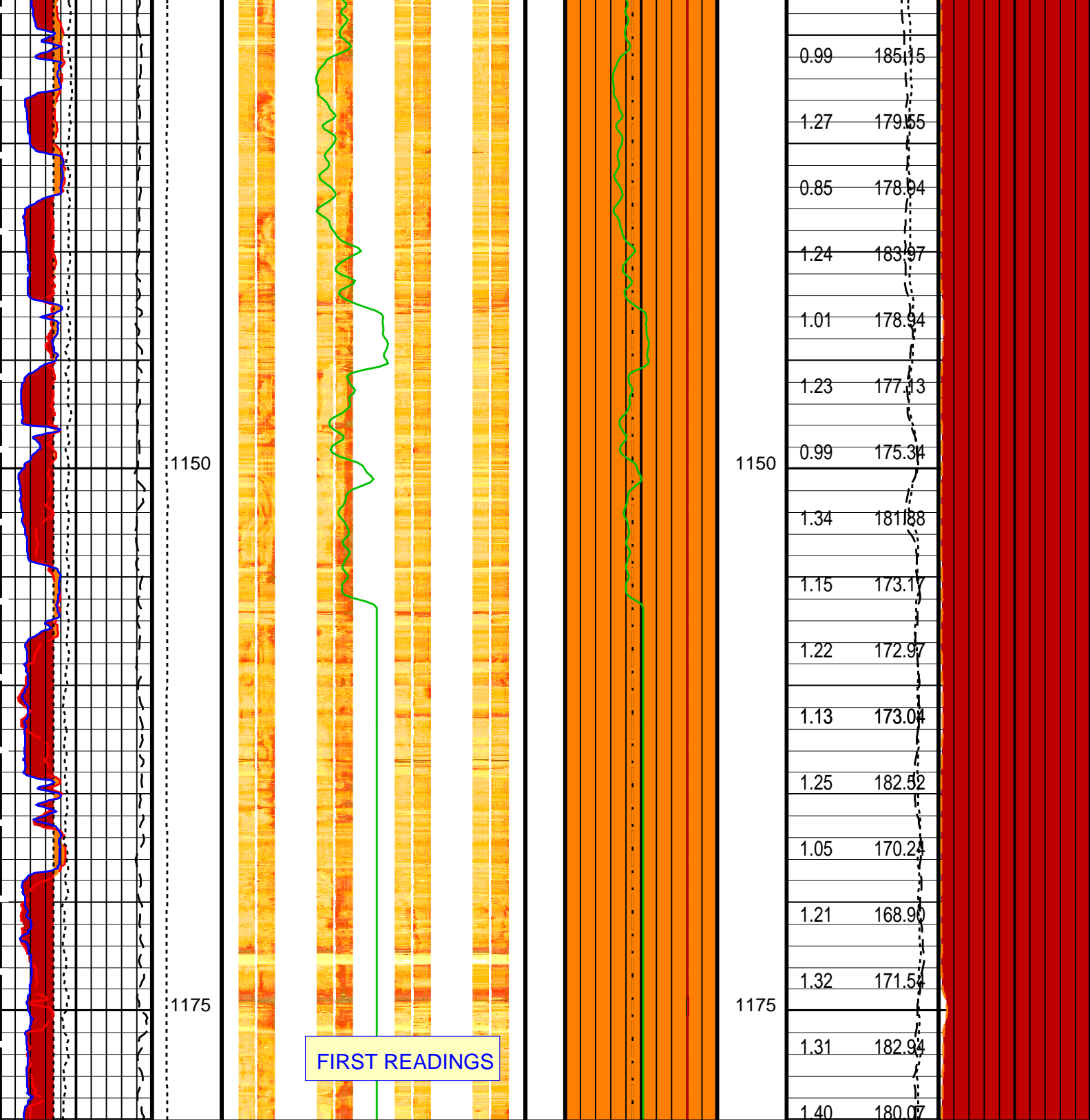
950

975

0.26	32.55
0.30	35.92
0.45	53.66
0.39	61.86
0.33	68.79
0.23	100.64
0.22	87.39
0.19	53.91
0.17	44.00
0.15	52.89
0.19	78.35
0.19	85.35
0.25	102.34
0.24	134.09
0.19	143.62
0.20	133.07
0.23	106.68
0.20	125.13
0.12	158.42
0.21	138.40
0.23	130.23
0.29	122.14







FMI GPIT LQC

Caliper Oversize	Cable Speed (CS) (M/HR) 0 1000	Gamma Ray (GR_EDTC) (GAPI) 0 150	Accelerometer Norme (ANOR) (M/S2) 9 11	Stuck Stretch (STIT) (M) 0 20	Pad One Azimuth (P1AZ_FBST) (-40 (DEG) 360	EMEX Voltage (EV) (V) 0 50
		Bit Size (BS) 275 (MM) 525	Magnetometer Norme (FNOR) (OER) 0.2 0.7	Stuck Tool Indicator, Adjusted (STIA) (M) 0 20	Relative Bearing (RB) (-180 (DEG) 180	Pad Pressure (PP) 0 (---- 50

<div>Caliper 1 (C1)</div> <div>275 (MM) 525</div>	<div>Gamma Ray (GR_</div> <div>EDTC)</div> <div>0 (GAPI) 150</div>	Cable Drag	HAZI – RIGHT (HAZI) (----	EMEX Low Flag
<div>Caliper 2 (C2)</div> <div>275 (MM) 525</div>	FNOR Flag	Tool Drag	SDEV – LEFT (SDEV) (----	Pad Press. Too Low
Caliper Undersize	ANOR Flag			
Head Tension (CDF)				
-1000 (N) 9000				
Cable Tension (TENS)				
25000 (N) 0				

## PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value
FBST-B: Full-Bore Scanner – F		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE
EGCO	FMI EMEX and GAIN Correction	NO
FBEF	FMI EMEX filtering activation	OFF
FDBD	FMI Dead Buttons detection	OFF
FDBP	FMI Dead Buttons Patching	OFF
FIEQ	FMI Image Equalisation	OFF
FLM	FMI Logging Mode	8PAD
FPSA	FMI Peak Signal Amplitude for Required Servo Level	ON
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION
MDEC	Magnetic Field Declination	28.7957 DEG
XGAI_FBST	Gain Value in Manual Mode	0_dB
XGMO	EMEX & Gain Modes	EmexManu_GainManu
XVOL	EMEX Voltage	0 V
MAPC-B: Multimode Array Sonic Power Cartridge		
BS	Bit Size	361.950 MM
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		
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth
DO	Depth Offset for Playback	0.4 M
PBVSADP	Use alternate depth channel for playback	NO
PP	Playback Processing	NORMAL

Format: FMI-GPIT-Field-LQC Vertical Scale: 1:24C Graphics File Created: 09-Mar-2007 11:47

## 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_022LUP	FN:25	PRODUCER	09-Mar-2007 10:00	1179.6 M	806.5 M
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## Output DLIS Files

DEFAULT	FMI_CAL_MAXS_MAPC_026PUP	FN:29	PRODUCER	09-Mar-2007 11:47
FMI_ONLY	FMI_CAL_MAXS_MAPC_026PUP	FN:30	PRODUCER	09-Mar-2007 11:47
MSIP_ONLY	FMI_CAL_MAXS_MAPC_026PUP	FN:31	PRODUCER	09-Mar-2007 11:47

Input DLIS Files

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 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

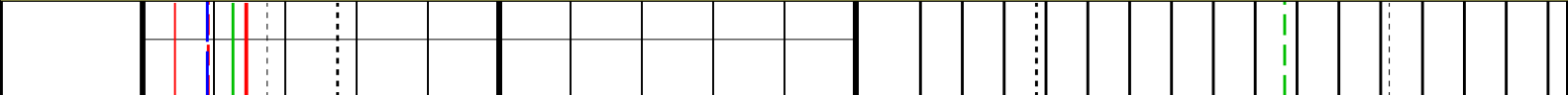
MCM

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

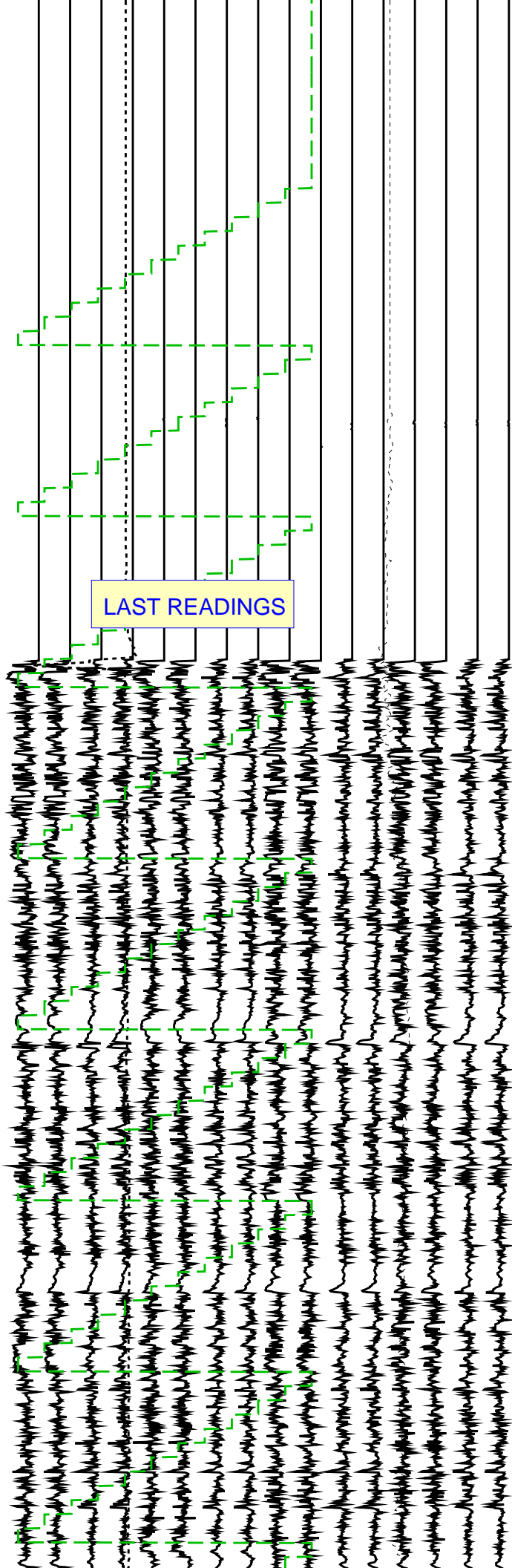
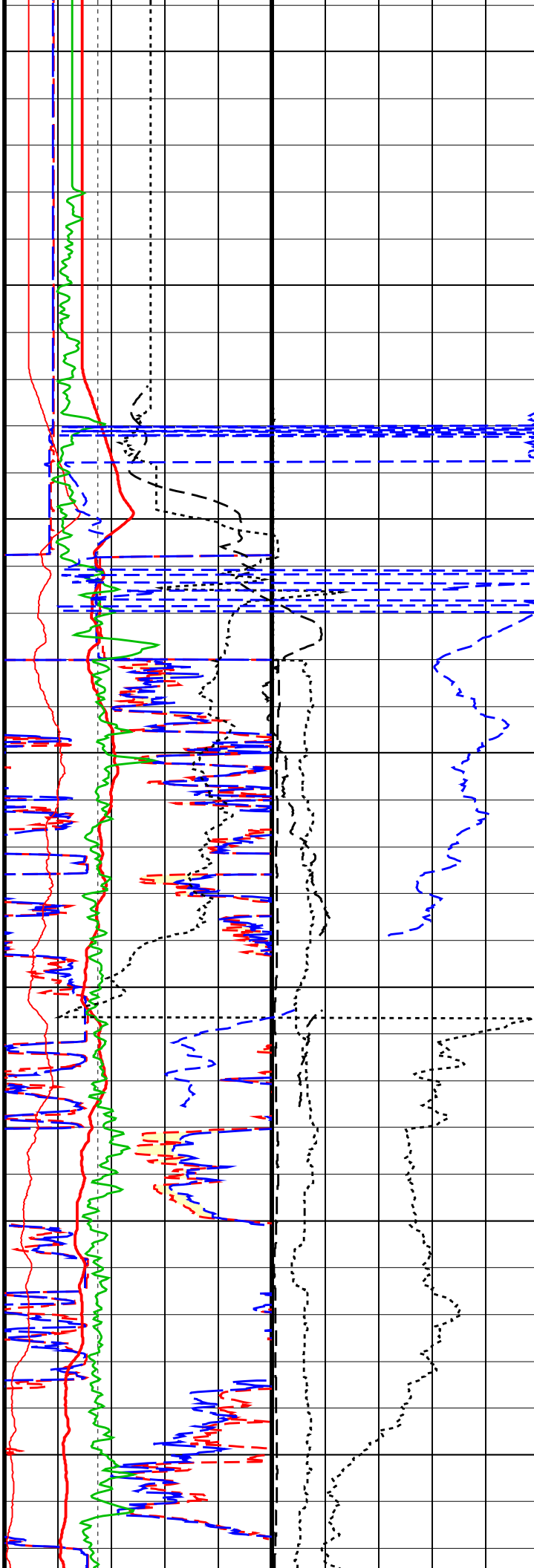
	<div>Deviation (DEVIM)</div> <div>-1 (DEG) 9</div>																	
	<div>Relative Bearing (RB_FBST)</div> <div>-40 (DEG) 360</div>																	
	<div>Pad One Azimuth (P1AZ_FBST)</div> <div>-40 (DEG) 360</div>																	
	<div>Hole Azimuth (HAZIM)</div> <div>-40 (DEG) 360</div>																	
	<div>Gamma Ray (GR_EDTC)</div> <div>0 (GAPI) 150</div>																	
	<div>Caliper 2 (C2)</div> <div>275 (MM) 525</div>																	
				<div>FMI resistivity buttons #1 to 16</div> <div>RB16 RB15 RB14 RB13 RB12 RB11 RB10 RB9 RB8 RB7 RB6 RB5 RB4 RB3 RB2 RB1</div>														
<div>Tool/Tot. Drag From D4T to STIA</div>	<div>Caliper 1 (C1)</div> <div>275 (MM) 525</div>		<div>EMEX Intensity (EI)</div> <div>0 (AMPS) 10</div>			<div>FMI RBS Value (RBSV)</div> <div>0 (-----) 20</div>												
<div>Cable Drag From D4T to STIT</div>	<div>Bit Size (BS)</div> <div>275 (MM) 525</div>		<div>EMEX Voltage (EV)</div> <div>0 (V) 50</div>			<div>Cable Speed (CS)</div> <div>0 (M/HR) 1000</div>				<div>Tension (TENS)</div> <div>25000 (N) 0</div>								

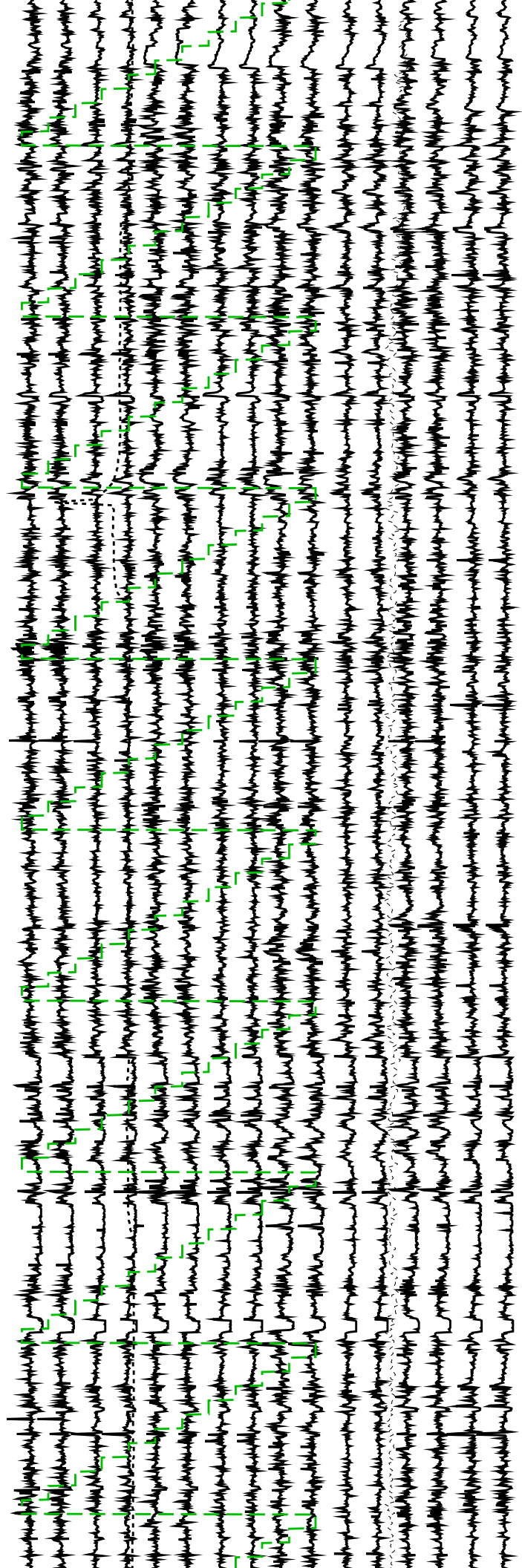
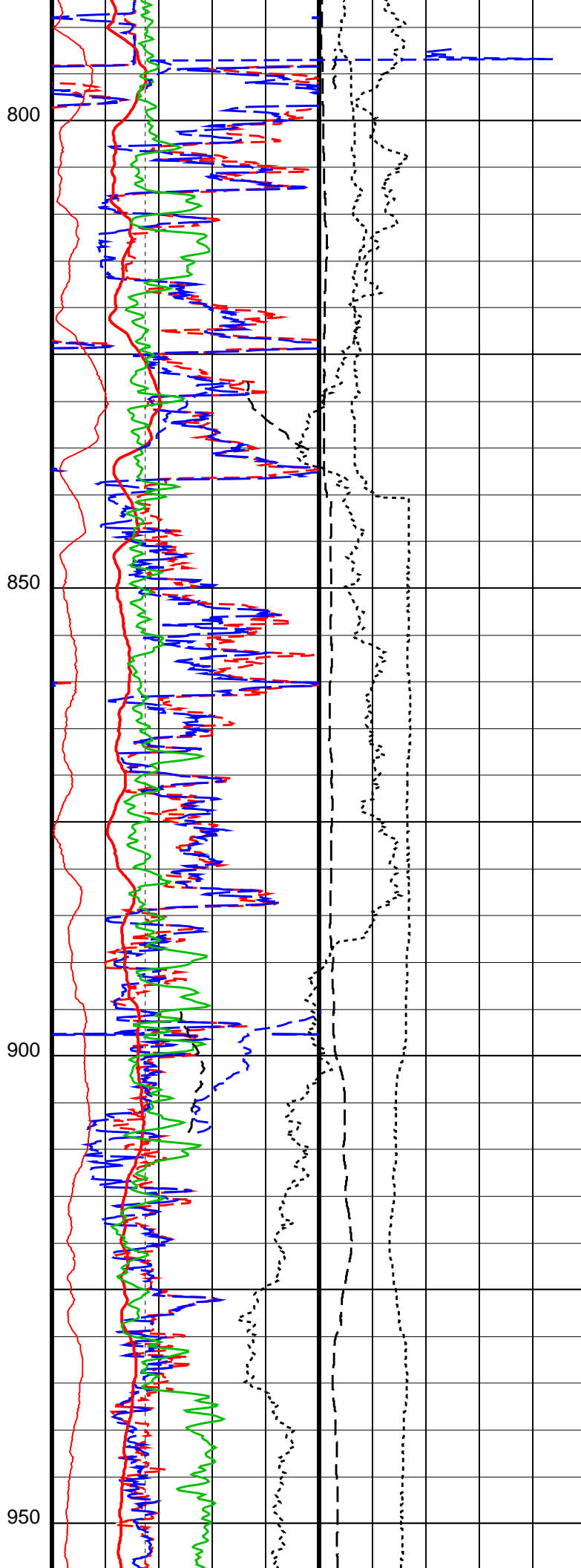


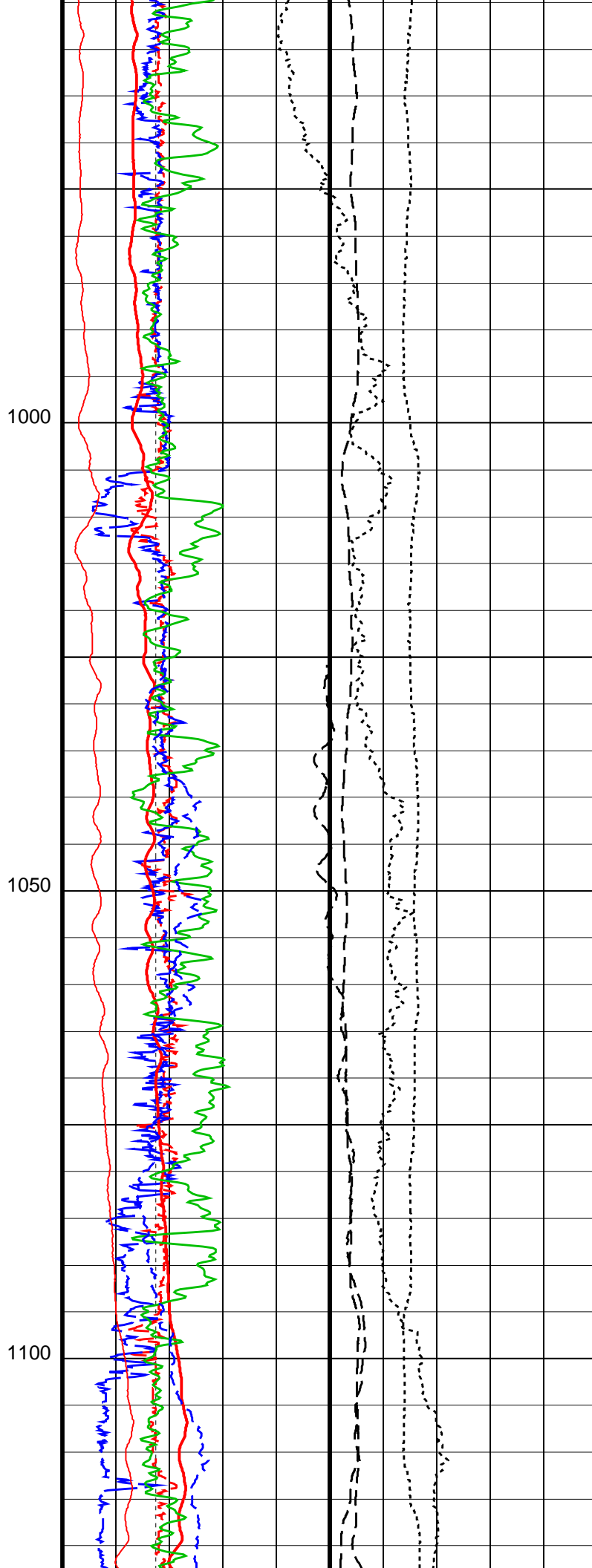
650

700

750





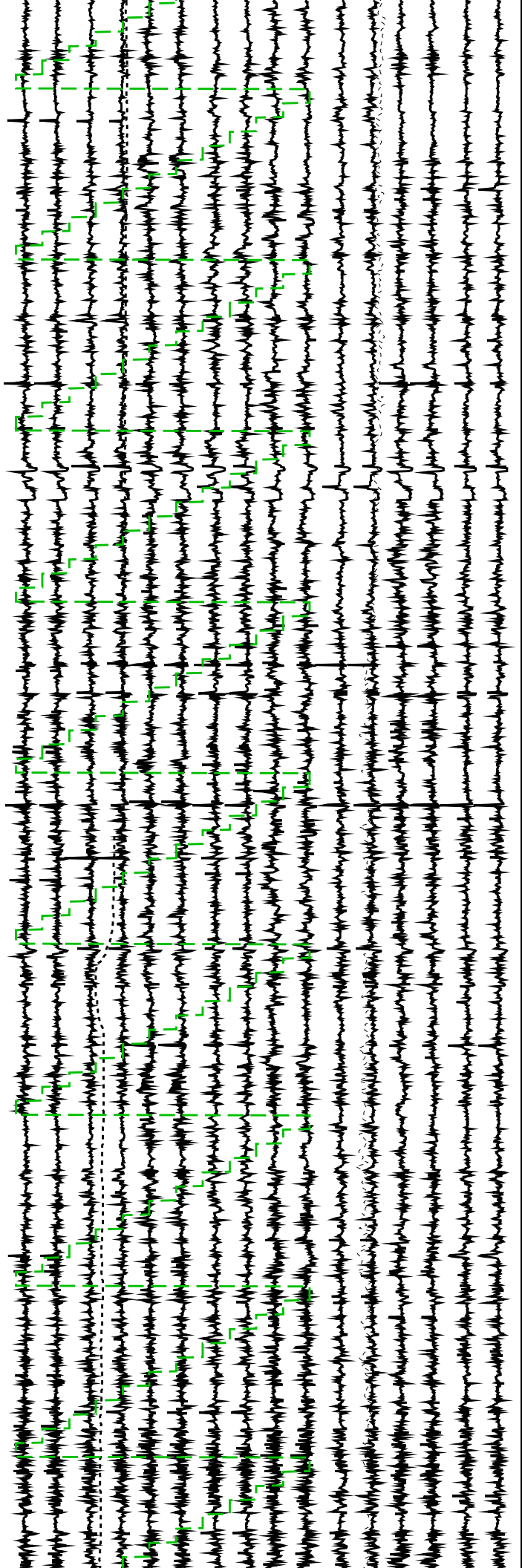
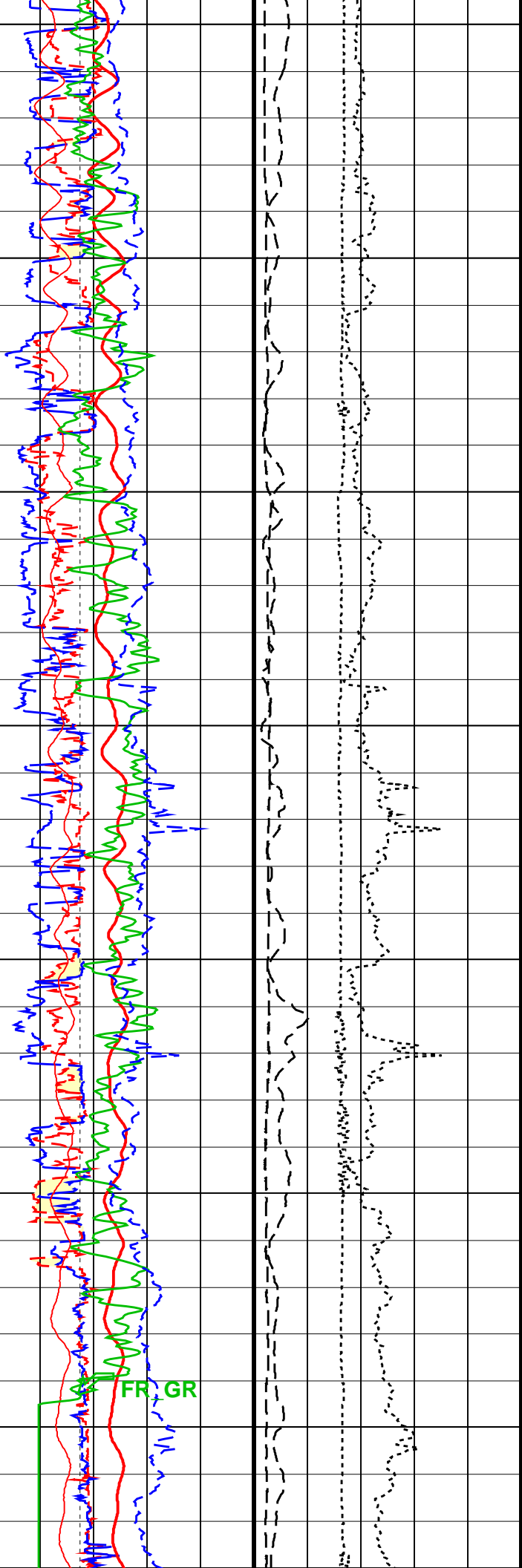


The figure shows four stacked geophysical traces. The red trace is the most prominent, showing high-frequency oscillations. The green and blue traces are smoother, and the black trace is a dashed line showing a different pattern of oscillations. The vertical axis is labeled with values 1100, 1050, and 1000. The traces are stacked vertically, with the red trace at the top and the black trace at the bottom. The grid lines are spaced at regular intervals, and the traces are plotted against a background of these grid lines.

1150

1200

1250



LOG QUALITY: *** FULLBORE FORMATION MICRO-IMAGER ***												
Cable Drag From D4T to STIT	Bit Size (BS)		EMEX Voltage (EV)		Cable Speed (CS)		Tension (TENS)					
	275	(MM)	525	0	(V)	50	0	(M/HR)	1000	25000	(N)	0
Tool/Tot. Drag From D4T to STIA	Caliper 1 (C1)		EMEX Intensity (EI)		FMI RBS Value (RBSV)							
	275	(MM)	525	0	(AMPS)	10	0	(----	20			
Deviation (DEVIM)					FMI resistivity buttons #1 to 16							
0					RB16 RB15 RB14 RB13 RB12 RB11 RB10 RB9 RB8 RB7 RB6 RB5 RB4 RB3 RB2 RB1							
(DEG)					10							
Caliper 2 (C2)												
275		(MM)	525									
Gamma Ray (GR_EDTC)												
0		(GAPI)	150									
Hole Azimuth (HAZIM)												
-40												
(DEG)					360							
Pad One Azimuth (P1AZ_FBST)												
-40												
(DEG)					360							
Relative Bearing (RB_FBST)												
-40												
(DEG)					360							
Deviation (DEVIM)												
-1												
(DEG)					9							
PIP SUMMARY												
Time Mark Every 60 S												
Parameters												
DLIS Name		Description						Value				
FBST-B: Full-Bore Scanner - I												
AFMO		Accelerometer Filtering Mode						MOVING_AVERAGE				
FBEF		FMI EMEX filtering activation						OFF				
ICMO		Inclinometry Computation Mode						AUTOMATIC_SELECTION				
MDEC		Magnetic Field Declination						28.7957 DEG				
RBS		Resistivity Button Selection						AUTO				
RBSI		Auto RBS Change Interval						10				
SOFF		Standoff						-25.4 MM				
XGMO		EMEX & Gain Modes						EmexManu_GainManu				
XVOL		EMEX Voltage						0 V				
MAPC-B: Multimode Array Sonic Power Cartridge												
BS		Bit Size						361.950 MM				
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: FMI-LQC-CAN 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					
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

## 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

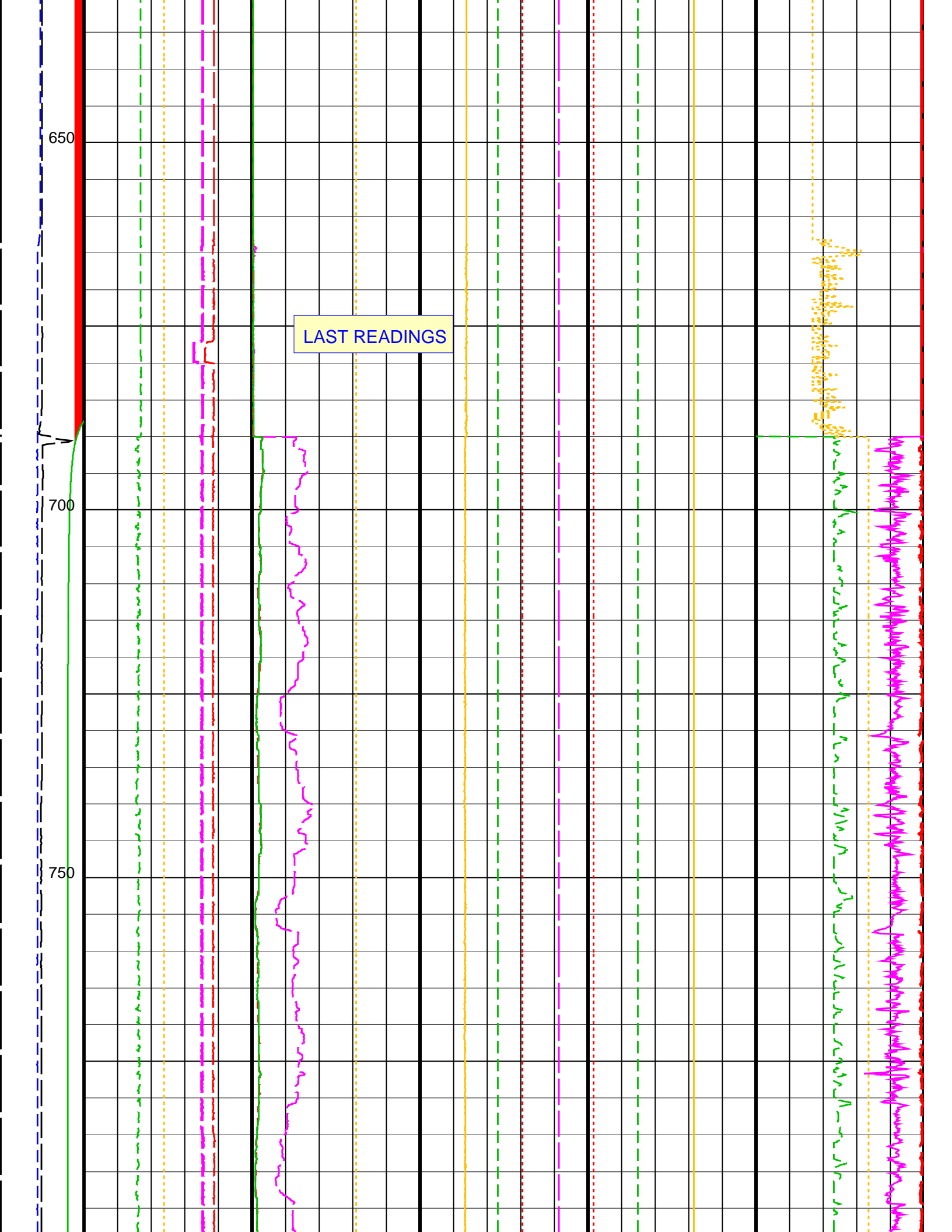
## PIP SUMMARY

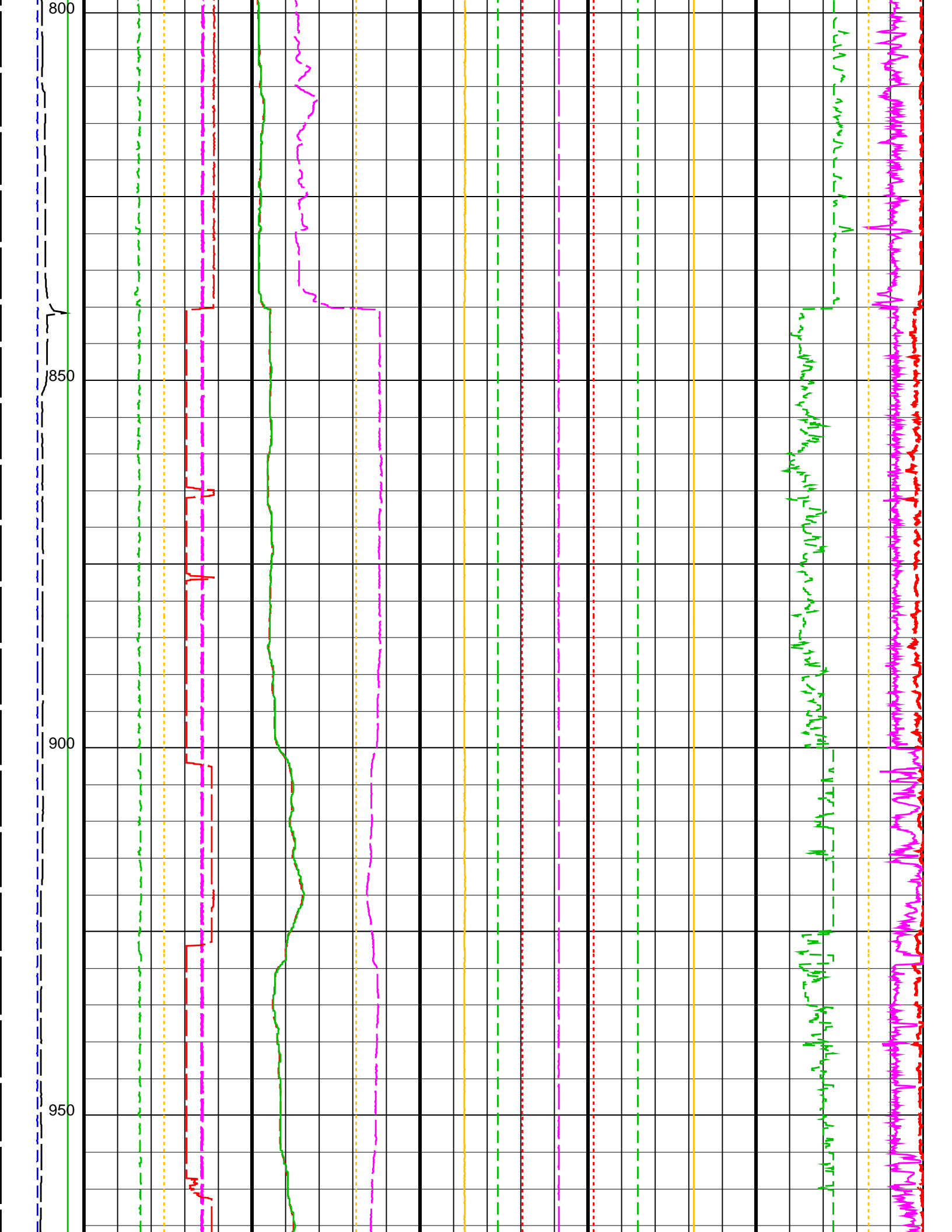
**Time Mark Every 60 S**

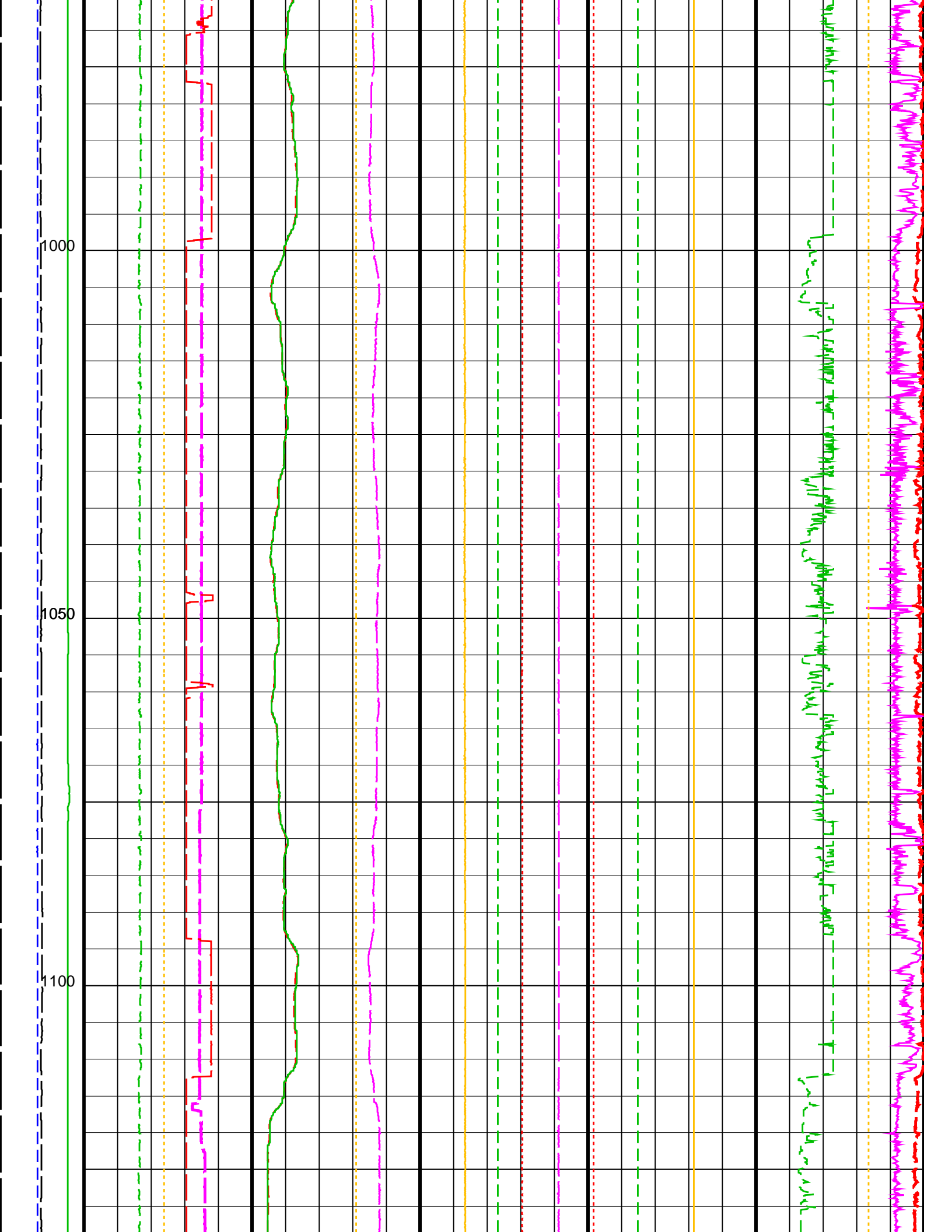
Magnetometer Norme (FNOR) (OER)					
0.2 0.7					
Accelerometer Norme (ANOR) (M/S <sup>2</sup> )	FBCC +5V supply (FCVL) 4.5 (V) 5.5	FBCC ADC Positive Ref (FCIR) 0 (V) 10	FBSC supply, arm A (FSVA) 2.4 (V) 2.9	FBSC ADC ref high, A (FRHA) 3.9 (V) 4.1	FBCC EMEX PLL control (FEPC) -1 (----) 2
9 11					
Tool/Tot. Drag From D4T to STIA	FBSC logic supply (FSVL) 4.5 (V) 5.5	FBCC EMEX voltage (FCEV) 0 (V) 20	FBSC supply, arm B (FSVB) 2.3 (V) 2.8	FBSC ADC ref high, D (FRHD) 3.9 (V) 4.1	FMI Electronic gain (FBGA) 2 (DB) 52
Cable Drag From D4T to STIT	FBCC -ve supply to FBSC (FCV1) 0 (V) -20	EMEX Voltage (EV) 0 (V) 20	FBSC supply, arm C (FSVC) 2.2 (V) 2.7	FBSC ADC ref low, A (FRLA) 2.2 (V) 2.4	FMI button average (FBAV) 2000 () 0
Cable Speed (CS) (M/HR)	FBCC +ve supply to FBSC (FCV2) 0 (V) 20	DC High Voltage (DCHV) 0 (V) 150	FBSC supply, arm D (FSVD) 2.1 (V) 2.6	FBSC ADC ref low, D (FRLD) 2.2 (V) 2.4	FMI Automatic EMEX Driving Input (AEDI) 1000 () 0
1000 0					

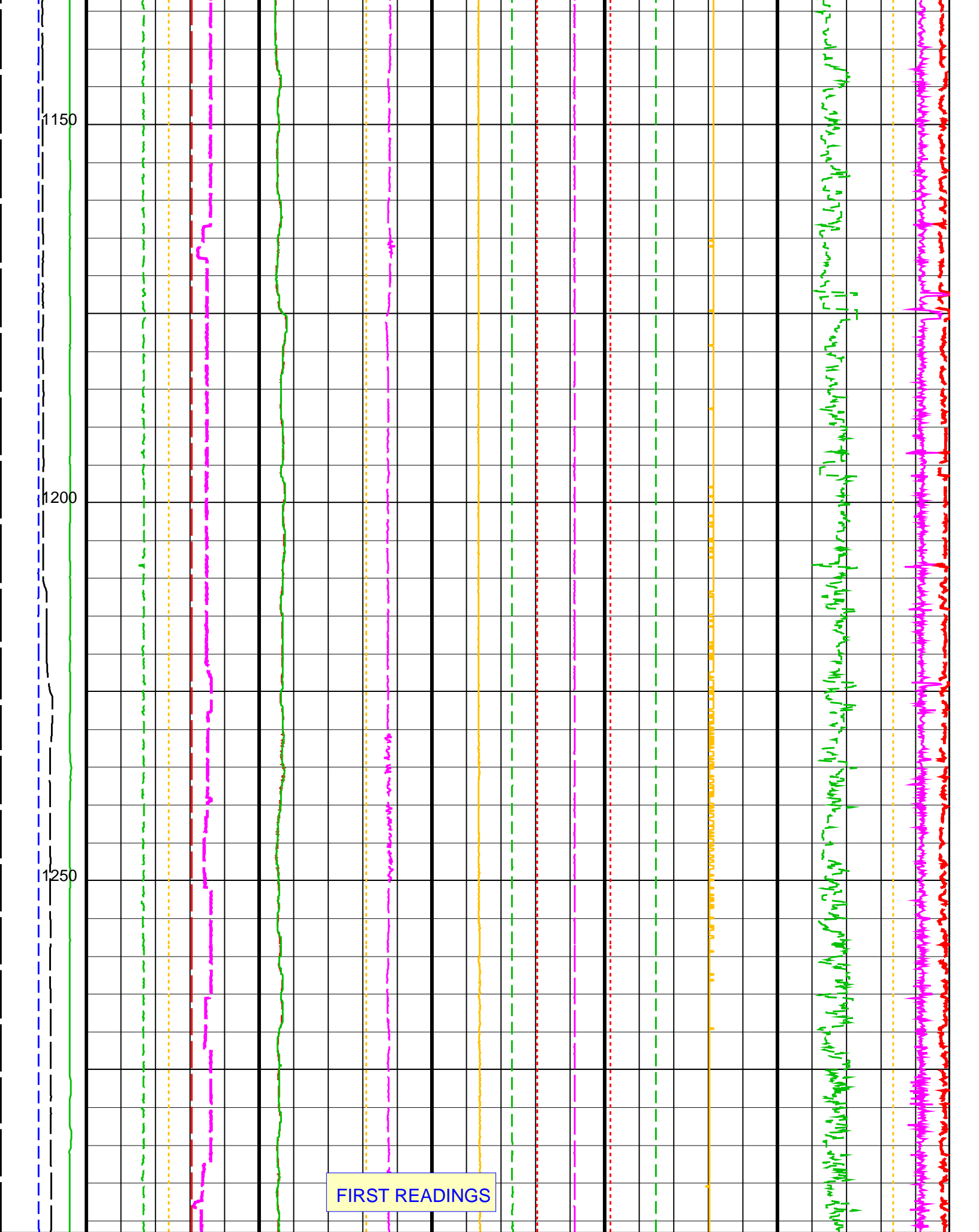
**TOOL EVALUATION: \*\*\* FULLBORE FORMATION MICRO-IMAGER \*\*\***











Cable Speed (CS) (M/HR)	FBCC +ve supply to FBSC (FCV2)	DC High Voltage (DCHV)	FBSC supply, arm D (FSVD)	FBSC ADC ref low, D (FRLD)	FMI Automatic EMEX Driving Input (AEDI)
1000 0	0 (V) 20	0 (V) 150	2.1 (V) 2.6	2.2 (V) 2.4	1000 () 0
Cable Drag From D4T to STIT	FBCC -ve supply to FBSC (FCV1)	EMEX Voltage (EV)	FBSC supply, arm C (FSVC)	FBSC ADC ref low, A (FRLA)	FMI button average (FBAV)
	0 (V) -20	0 (V) 20	2.2 (V) 2.7	2.2 (V) 2.4	2000 () 0
Tool/Tot. Drag From D4T to STIA	FBSC logic supply (FSVL)	FBCC EMEX voltage (FCEV)	FBSC supply, arm B (FSVB)	FBSC ADC ref high, D (FRHD)	FMI Electronic gain (FBGA)
	4.5 (V) 5.5	0 (V) 20	2.3 (V) 2.8	3.9 (V) 4.1	2 (DB) 52
Accelerome ter Norme (ANOR) (M/S2)	FBCC +5V supply (FCVL)	FBCC ADC Positive Ref (FCIR)	FBSC supply, arm A (FSVA)	FBSC ADC ref high, A (FRHA)	FBCC EMEX PLL control (FEPC)
9 11	4.5 (V) 5.5	0 (V) 10	2.4 (V) 2.9	3.9 (V) 4.1	-1 (----) 2
Magnetome ter Norme (FNOR) (OER)					
0.2 0.7					

PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
FBST-B: Full-Bore Scanner – I			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
FBEF	FMI EMEX filtering activation	OFF	
FLM	FMI Logging Mode	8PAD	
FPSA	FMI Peak Signal Amplitude for Required Servo Level	ON	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	28.7957	DEG
XGAI_FBST	Gain Value in Manual Mode	0_dB	
XGMO	EMEX & Gain Modes	EmexManu_GainManu	
XVOL	EMEX Voltage	0	V
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: FMI-TEVAL-CAN      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
PPC2-B	SKK-3060-PPCB	EDTC-B	SKK-3248-EDTCB



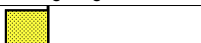
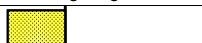
Input DLIS Files						
DEFAULT	FMI_CAL_MAXS_MAPC_020LUP	FN:21	PRODUCER	09-Mar-2007 08:10	1296.0 M	636.9 M
Output DLIS Files						
DEFAULT	FMI_CAL_MAXS_MAPC_029PUP	FN:34	PRODUCER	09-Mar-2007 12:43		
FMI_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:35	PRODUCER	09-Mar-2007 12:43		
MSIP_ONLY	FMI_CAL_MAXS_MAPC_029PUP	FN:36	PRODUCER	09-Mar-2007 12:43		

## MAXIS Field Log




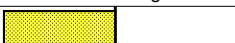


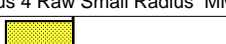

### Calibration and Check Summary

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	
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	
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	
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
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



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







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	PC1 Radius 1 Raw Small Radius MM		Value	Phase	PC1 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	PC1 Radius 2 Raw Small Radius MM		Value	Phase	PC1 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	PC1 Radius 3 Raw Small Radius MM		Value	Phase	PC1 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	PC1 Radius 4 Raw Small Radius MM		Value	Phase	PC1 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 – B
PPC2 Caliper 40 Extension	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 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)	
PPC2 Radius 1 Raw Small Radius MM Min-Max					PPC2 Radius 1 Raw Large Radius MM Min-Max				

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							

#### 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)		GAPI	Value
Before	<div><div></div></div>			5.155	Before	<div><div></div></div>			159.1	Before	<div><div></div></div>			165.0
	0	30.00	120.0		144.7	159.1	173.6			150.0	165.0	180.0		
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(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**

**FORMATION MICRO IMAGER**