Schlumberger

Company: Lamont Doherty

Well: ODP Leg 203 Site1243A
Field: Equatorial Pacific IMO
Country: Panama Ocean: Pacific

Country: Panama
Field: Equatorial Pacific IMO
Location: Rig...Joides Resolution
Well: ODP Leg 203 Site1243A
Company: Lamont Doherty

Cement Bond Log
Gamma Ray
Deviation

LOCATION

Rig...Joides Resolution		Elev.: K.B.	11.3 m
Lat: N 5 Deg 18.0660'		G.L.	-3882 m
Long: W 110 Deg 4.5790'		D.F.	11 m
Permanent Datum:	MSL	Elev.:	0 m
Log Measured From:	DES	11.3 m	above Perm. Datum
Drilling Measured From:	DES		

API Serial No.	Max. Hole Devi. 0 deg	Longitude	Latitude

Logging Date		24-Jun-2002					
Run Number		1					
Depth Driller		4081 m					
Schlumberger Depth		4088 m					
Bottom Log Interval		4083 m					
Top Log Interval		3967 m					
Casing Driller Size @ Depth		10.750 in	@	3967 m		@	
Casing Schlumberger		3969 m					
Bit Size		18.500 in					
Type Fluid In Hole		Sepiolite					
MUD Density	Viscosity	1.1 g/cm3					
MUD Fluid Loss	PH						
MUD Source Of Sample		Mudpit					
RM @ Measured Temperature		0.250 ohm.m	@	30 degC		@	
RMF @ Measured Temperature			@			@	
RMC @ Measured Temperature			@			@	
Source RMF	RMC						
RM @ MRT	RMF @ MRT	@		@	@		@
Maximum Recorded Temperatures							
Circulation Stopped	Time	23-Jun-2002		13:00			
Logger On Bottom	Time	25-Jun-2002		3:15			
Unit Number	Location	99	Houston ODP				
Recorded By		K. Swain					
Witnessed By		A. Buysch					

	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			
MUD Density	Viscosity		
MUD Fluid Loss	PH		
MUD Source Of Sample			
RM @ Measured Temperature		@	
RMF @ Measured Temperature		@	
RMC @ Measured Temperature		@	
Source RMF	RMC		
RM @ MRT	RMF @ MRT	@	@
Maximum Recorded Temperatures			
Circulation Stopped	Time		
Logger On Bottom	Time		
Unit Number	Location		
Recorded By			
Witnessed By			

| | | |

ECH-QT

DTC-H
ECH-KC
DTCH0-A
DTCH1-A

CTEM — 13.15
TelStatus
ToolStatu — 12.51

13.42

SGT-N
SGH-K 245
SGC-TB 9585
SGD-TAA

Gamma Ray — 12.23

12.51

AH-MCD-Bot
AH-MCD-Bot

10.83

DSLT-FTB
DSLC-B
ECH-KH
SLS-W

8.55

USN — 4.75
UHN — 4.51
USF UHF — 4.45

LSF LHF — 3.61
LHN — 3.54
LSN — 3.30

DSLT Aux. — 2.26

AH-MCD-top
AH-MCD-top

2.26

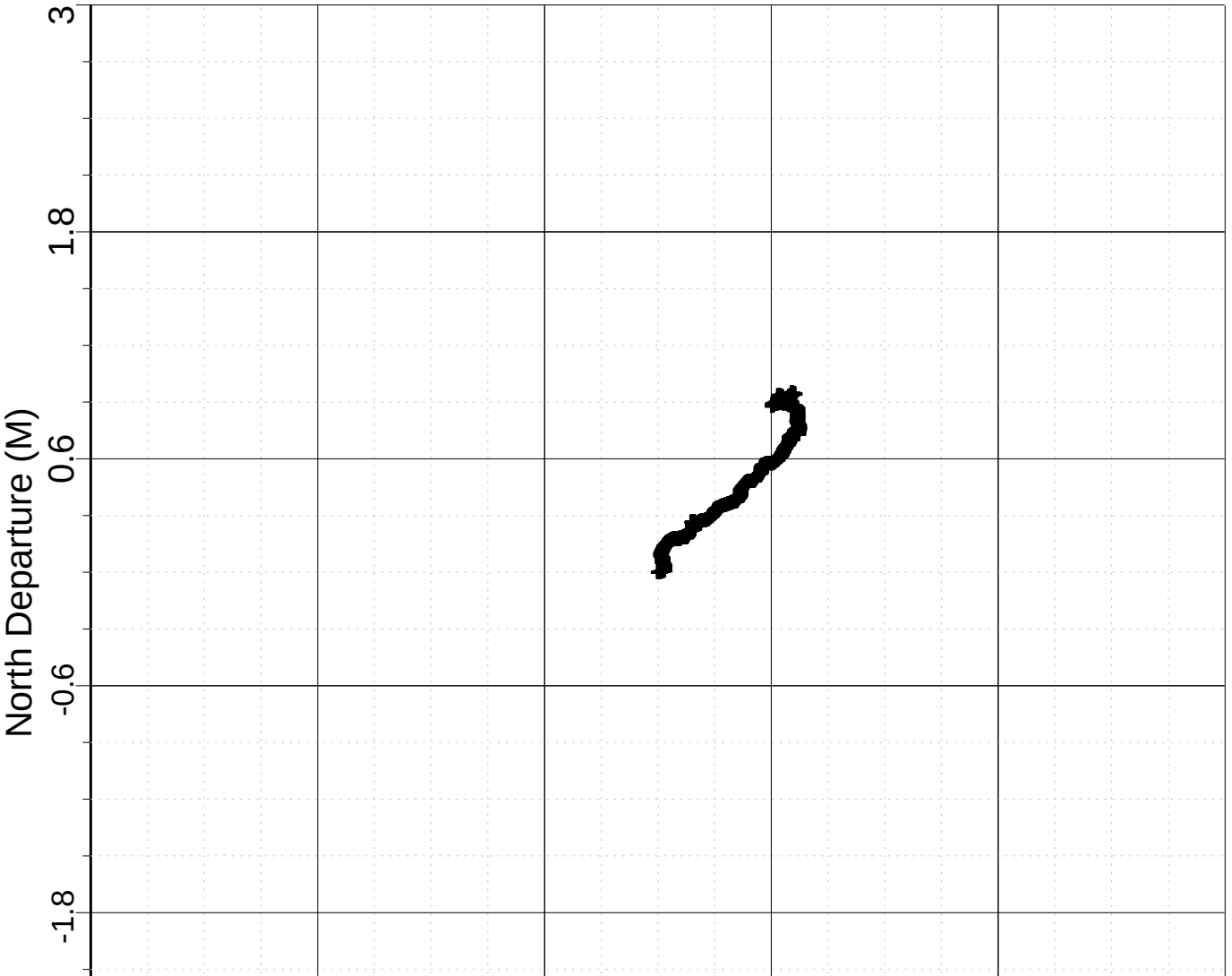
BNS-CCS

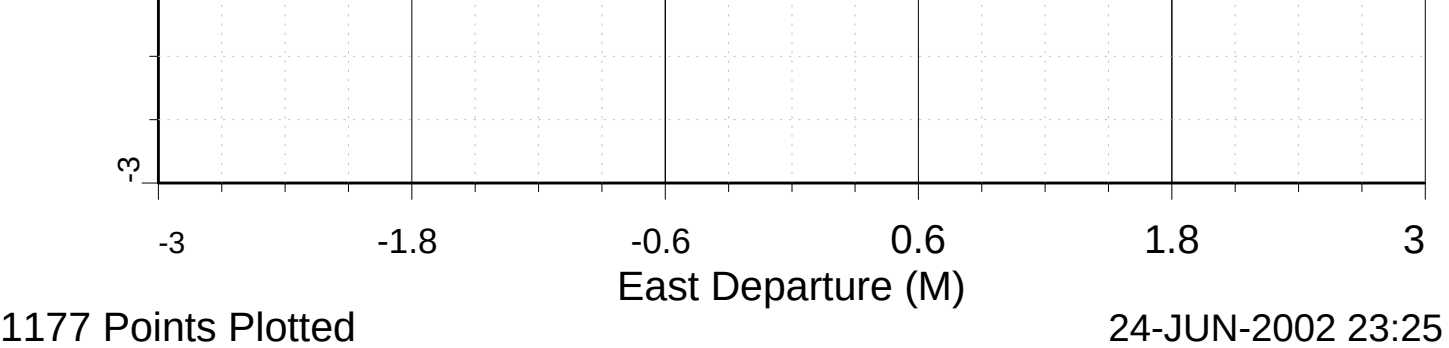
DF GPIT
Tension HV — 0.00
TOOL ZERO

0.14

MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

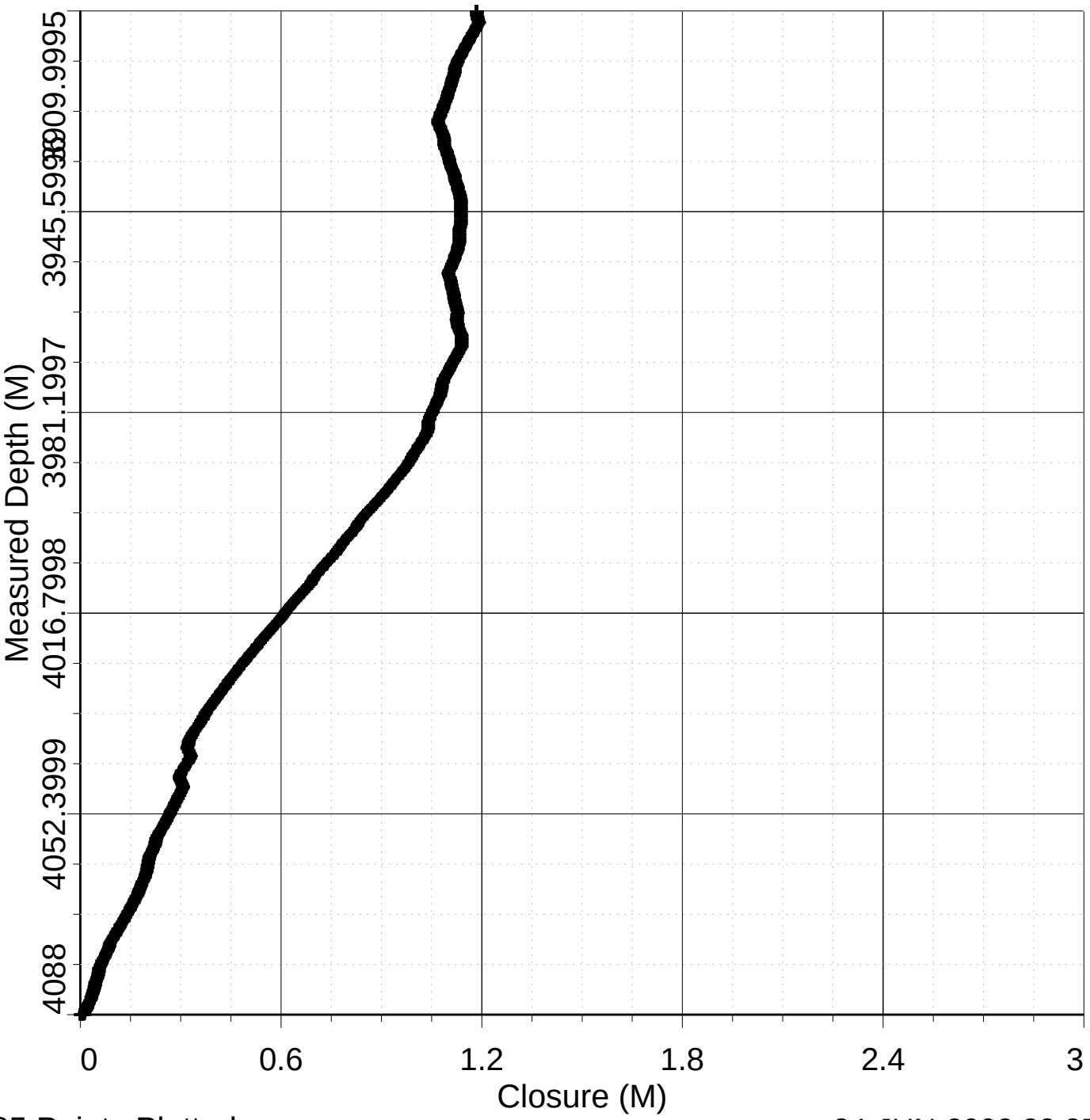
Index: 4089.5 - 3909.1 M





1177 Points Plotted 24-JUN-2002 23:25

Index: 4089.5 - 3909.1 M



1185 Points Plotted 24-JUN-2002 23:25

Output DLIS Files

DEFAULT	SONIC_014LUP	FN:13	PRODUCER	25-Jun-2002 03:56	4089.0 M	3971.4 M

OP System Version: 10C0-306

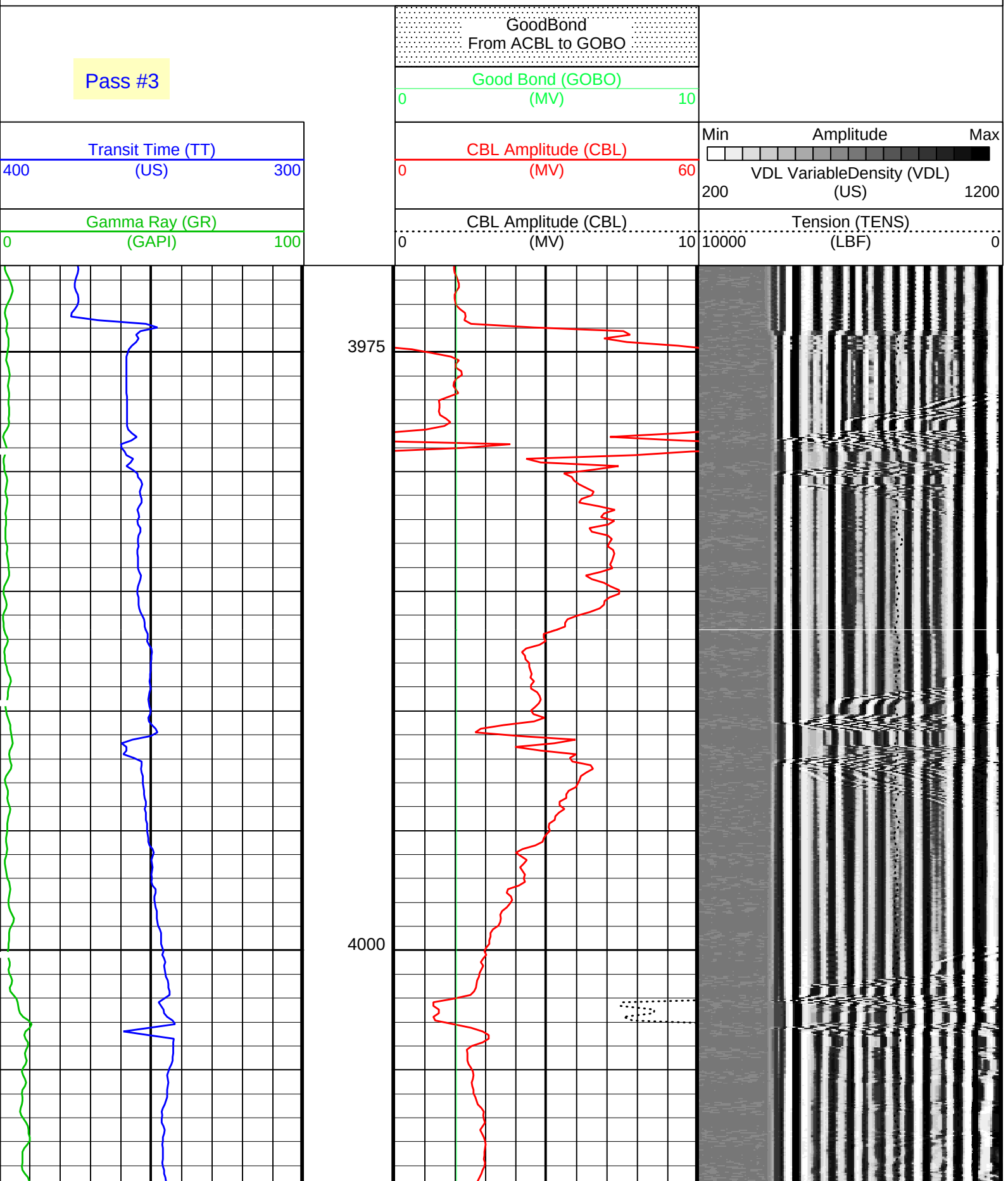
MCM

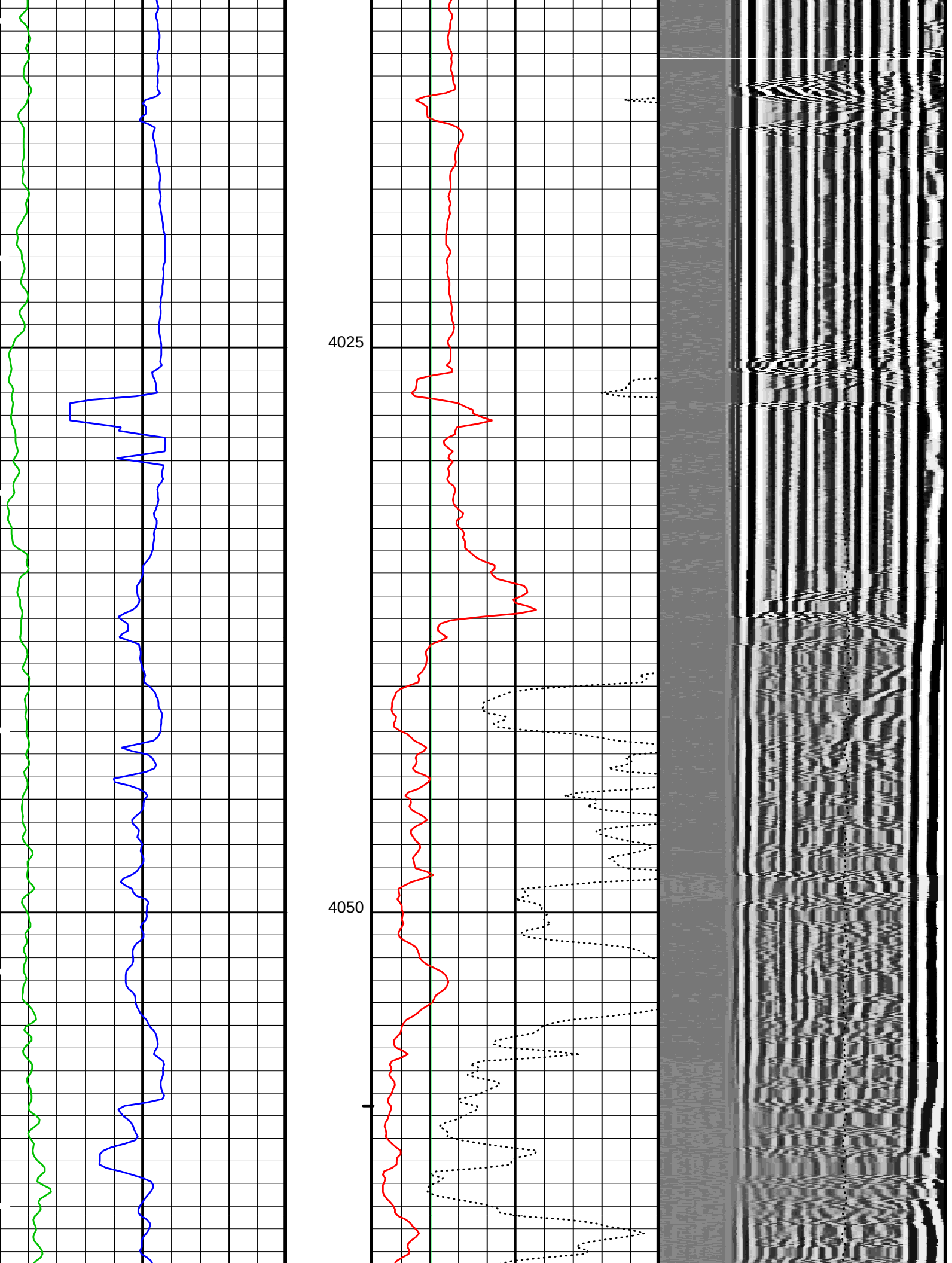
DSLT-FTB OP10-KP1 SGT-N 10C0-306
DTC-H 10C0-306

PIP SUMMARY

Cement Isolation Marker

Time Mark Every 60 S

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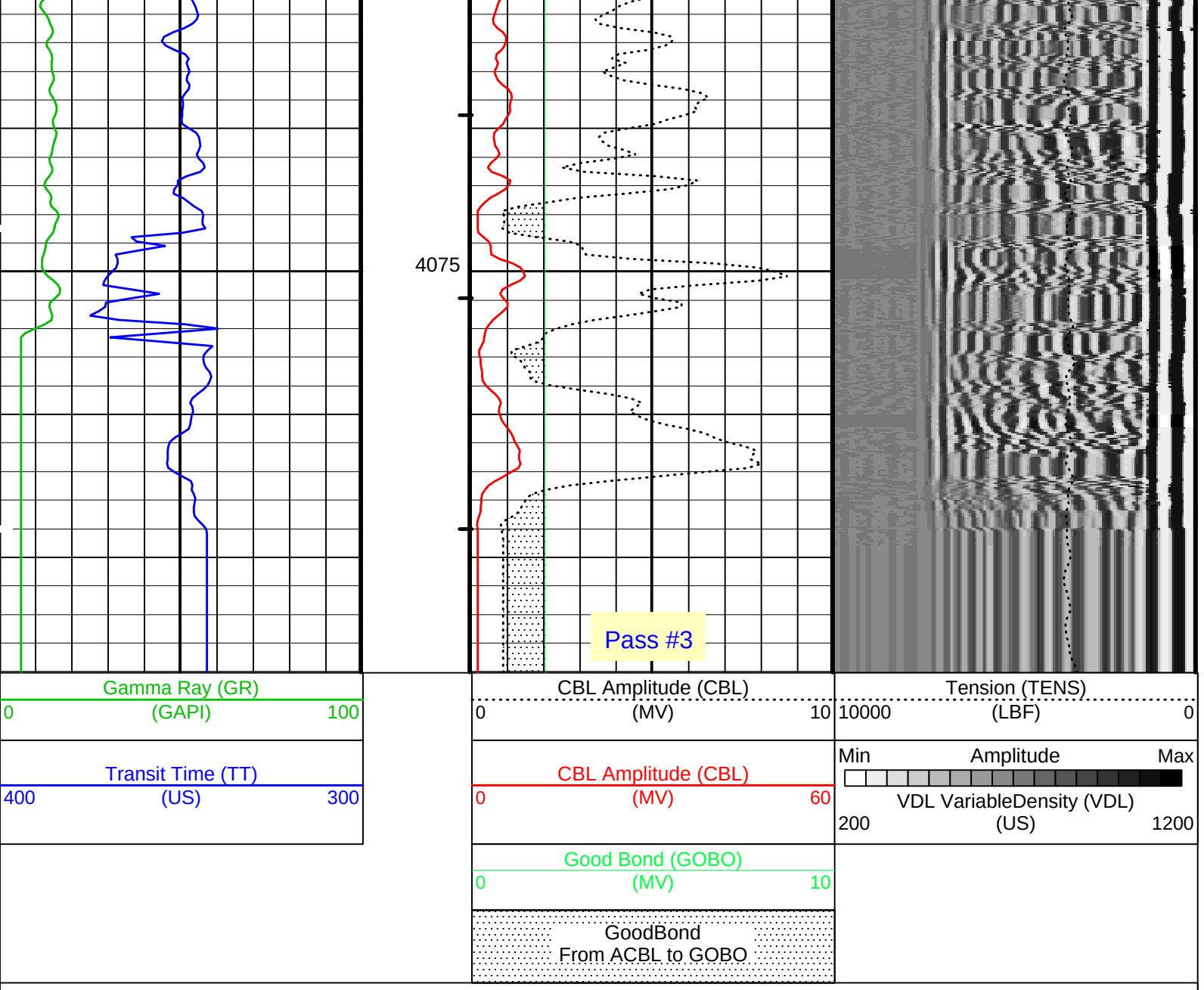


Parameters

DLIS Name	Description	Value	
	DSLT-FTB: Digitizing Sonic Logging Tool		
	DSLT Firing Mode	CBL_W	
	Telemetry Mode	DSLC_FTB	
AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	294	US
BILI	Bond Index Level for Zone Isolation	0.8	
CBAF	CBL Adjustment Factor	1.4	
CBCF	CBL Correction Factor	4	
CBLG	CBL Gate Width	42	US
CDTS	C-Delta-T Shale	100	US/F
CSTR	Compressive Strength of Cement	6894	KPAA
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E1	
DFAD	Digital First Arrival Detection Switch	DSP	
DFAD_TYPE	DFAD type	DFAD2	
DIVL	DSLT Depth Sampling Interval	60	
DRCS	DSLT DLIS Recording Size	120	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLC Telemetry Frame Size	236	
DTM	Delta-T Matrix	56	US/F

DWCO	Digitizing Word Count	120	
FCF	CBL Fluid Compensation Factor	1	
GAI	Manual Gain	40	
GOBO	Good Bond	2	MV
HRSP	High Resolution Spacing	5.118	IN
ITTS	Integrated Transit Time Source	DT	
LTUT	Lower to Upper Transmitter Spacing Ratio	1	
MAHTR	Manual High Threshold Reference	40	
MCI	Minimum Cemented Interval for Isolation	5.14274	M
MGAI	Maximum Gain	1000	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	30	
MODE	Sonic Firing Mode	CBL	
MSA	Minimum Sonic Amplitude	4.47948	MV
NMSG	Near Minimum Sliding Gate	342	US
NMXG	Near Maximum Sliding Gate	595	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R7	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	13	DB/M
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	AUTO	
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	56	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	5	
WAGC	Waveform AGC Allow/Disallow	ON	
WGAI	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
SGT-N: Scintillation Gamma-Ray - N			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	12	DEGC
DPPM	Density Porosity Processing Mode	STAN	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	SGT Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
SOGR	SGT Standoff Distance	0	IN
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	18.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	10.750	IN
CWEI	Casing Weight	47.00	LB/F
DFD	Drilling Fluid Density	1.10	G/C3
MST	Mud Sample Temperature	30.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	M
TDD	Total Depth - Driller	4081.00	M
TDL	Total Depth - Logger	-50000.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: CBL_VDL Vertical Scale: 1:200 Graphics File Created: 25-Jun-2002 03:56

OP System Version: 10C0-306

MCM

DSLT-FTB	OP10-KP1	SGT-N	10C0-306
DTC-H	10C0-306		

Output DLIS Files

DEFAULT	SONIC_014LUP	FN:13	PRODUCER	25-Jun-2002 03:56

Output DLIS Files

DEFAULT	SONIC_013LUP	FN:12	PRODUCER	25-Jun-2002 03:45	4089.2 M	3970.5 M

OP System Version: 10C0-306

MCM

DSLT-FTB OP10-KP1 SGT-N 10C0-306
DTC-H 10C0-306

PIP SUMMARY

Cement Isolation Marker

Time Mark Every 60 S

Pass #2

GoodBond
From ACBL to GOBO

Good Bond (GOBO)
0 (MV) 10

Transit Time (TT)
400 (US) 300

CBL Amplitude (CBL)
0 (MV) 60

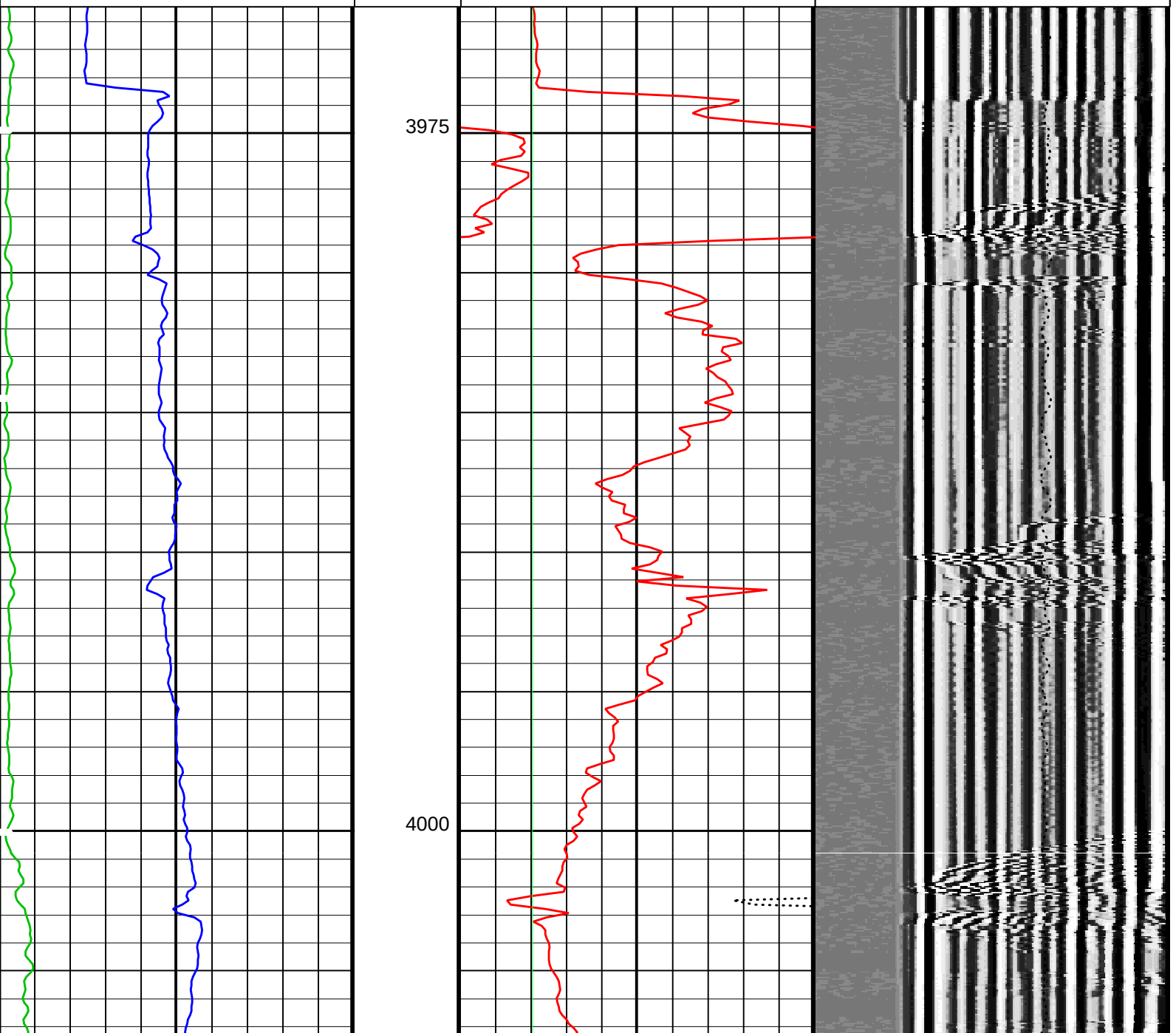
Min Amplitude Max

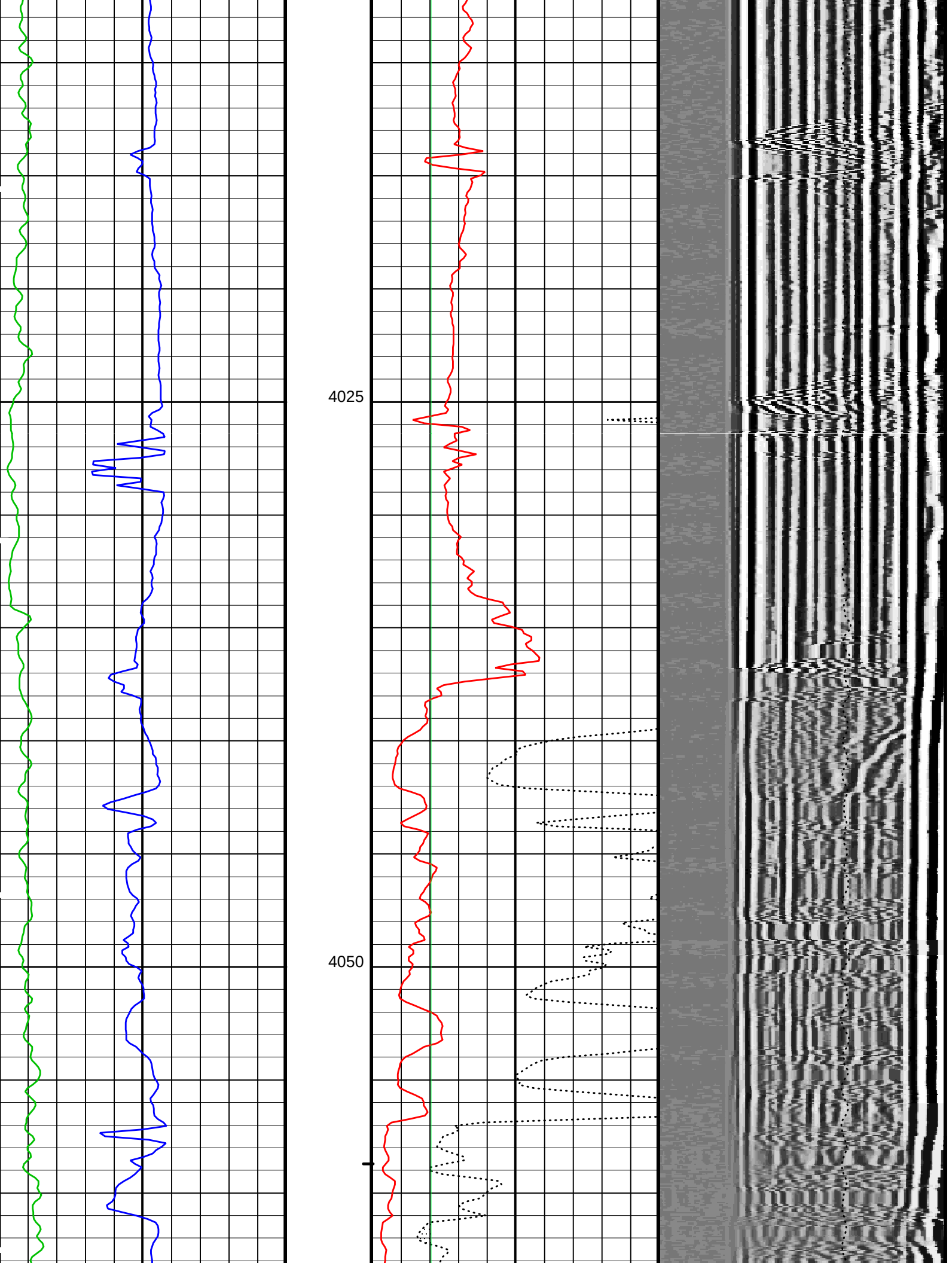
VDL VariableDensity (VDL)
200 (US) 1200

Gamma Ray (GR)
0 (GAPI) 100

CBL Amplitude (CBL)
0 (MV) 10

Tension (TENS)
10000 (LBF) 0

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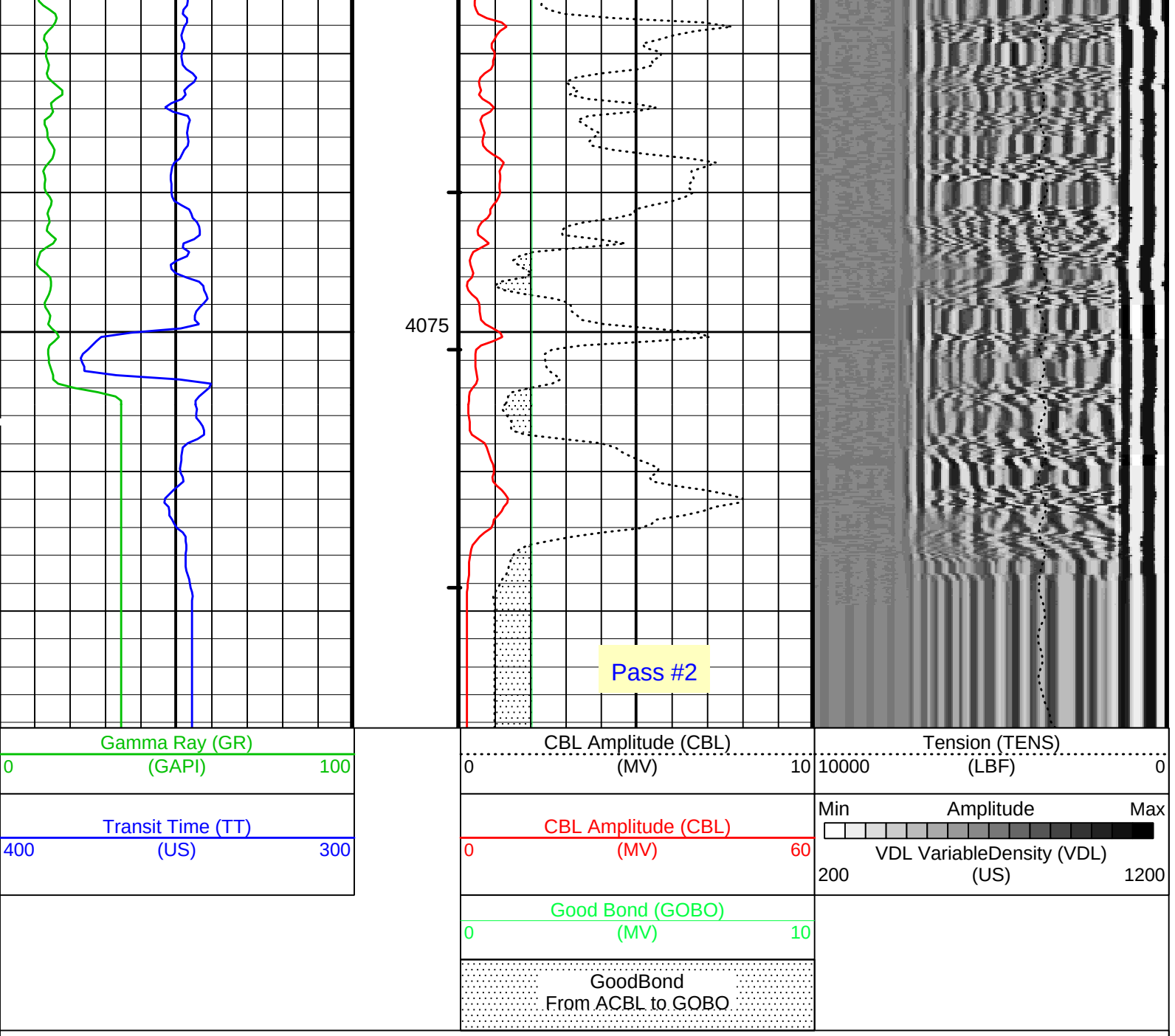


Parameters

DLIS Name	Description	Value	
	DSLT-FTB: Digitizing Sonic Logging Tool		
	DSLT Firing Mode	CBL_W	
	Telemetry Mode	DSLC_FTB	
AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	294	US
BILI	Bond Index Level for Zone Isolation	0.8	
CBAF	CBL Adjustment Factor	1.4	
CBCF	CBL Correction Factor	4	
CBLG	CBL Gate Width	42	US
CDTS	C-Delta-T Shale	100	US/F
CSTR	Compressive Strength of Cement	6894	KPAA
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E1	
DFAD	Digital First Arrival Detection Switch	DSP	
DFAD_TYPE	DFAD type	DFAD2	
DIVL	DSLT Depth Sampling Interval	60	
DRCS	DSLT DLIS Recording Size	120	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	

DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLC Telemetry Frame Size	236	
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizing Word Count	120	
FCF	CBL Fluid Compensation Factor	1	
GAI	Manual Gain	40	
GOBO	Good Bond	2	MV
HRSP	High Resolution Spacing	5.118	IN
ITTS	Integrated Transit Time Source	DT	
LTUT	Lower to Upper Transmitter Spacing Ratio	1	
MAHTR	Manual High Threshold Reference	40	
MCI	Minimum Cemented Interval for Isolation	5.14274	M
MGAI	Maximum Gain	1000	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	30	
MODE	Sonic Firing Mode	CBL	
MSA	Minimum Sonic Amplitude	4.47948	MV
NMSG	Near Minimum Sliding Gate	342	US
NMXG	Near Maximum Sliding Gate	595	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R7	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	13	DB/M
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	AUTO	
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	56	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	5	
WAGC	Waveform AGC Allow/Disallow	ON	
WGAI	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
SGT-N: Scintillation Gamma-Ray - N			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	12	DEGC
DPPM	Density Porosity Processing Mode	STAN	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	SGT Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
SOGR	SGT Standoff Distance	0	IN
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	18.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	10.750	IN
CWEI	Casing Weight	47.00	LB/F
DFD	Drilling Fluid Density	1.10	G/C3
MST	Mud Sample Temperature	30.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	M
TDD	Total Depth - Driller	4081.00	M
TDL	Total Depth - Logger	-50000.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: CBL_VDL Vertical Scale: 1:200 Graphics File Created: 25-Jun-2002 03:45

OP System Version: 10C0-306

MCM

DSLT-FTB	OP10-KP1	SGT-N	10C0-306
DTC-H	10C0-306		

Output DLIS Files

DEFAULT	SONIC_013LUP	FN:12	PRODUCER	25-Jun-2002 03:45

Input DLIS Files

DEFAULT	MERGE_SONIC_015	FN:1	PRODUCER	25-Jun-2002 20:46	4089.5 M	3908.5 M

Output DLIS Files

DEFAULT	SONIC_017PUP	FN:15	PRODUCER	25-Jun-2002 20:54	4089.5 M	3909.1 M

OP System Version: 10C0-306

MCM

DSLT-FTB	OP10-KP1	SGT-N	10C0-306
DTC-H	10C0-306	GPIT-A/B	10C0-306

PIP SUMMARY

Time Mark Every 60 S

GoodBond
From ACBL to GOBO

Deviation (SDEVM)
10 (DEG) 0

Good Bond (GOBO)
0 (MV) 10

Transit Time (TT)
400 (US) 300

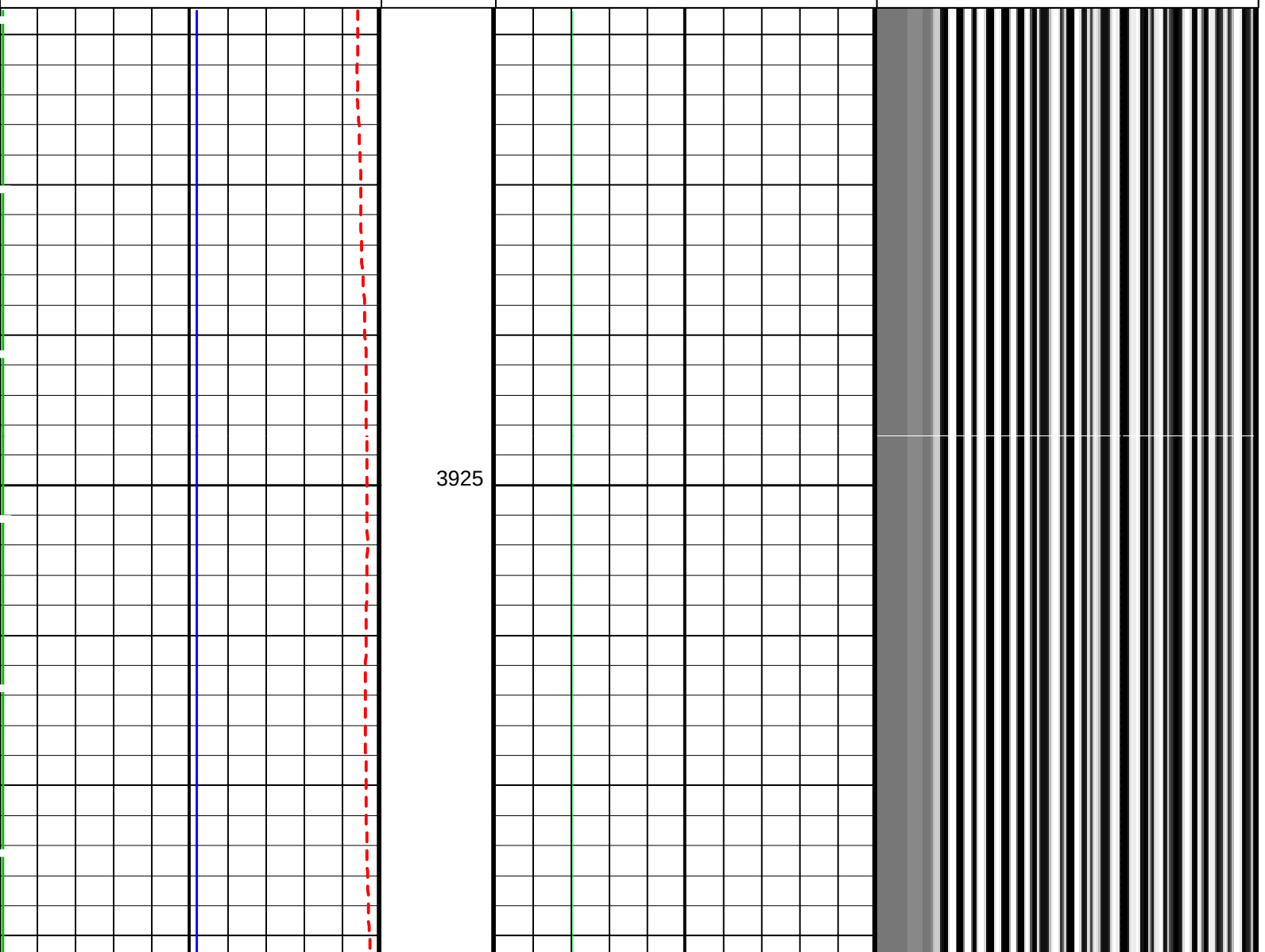
CBL Amplitude (CBL)
0 (MV) 60

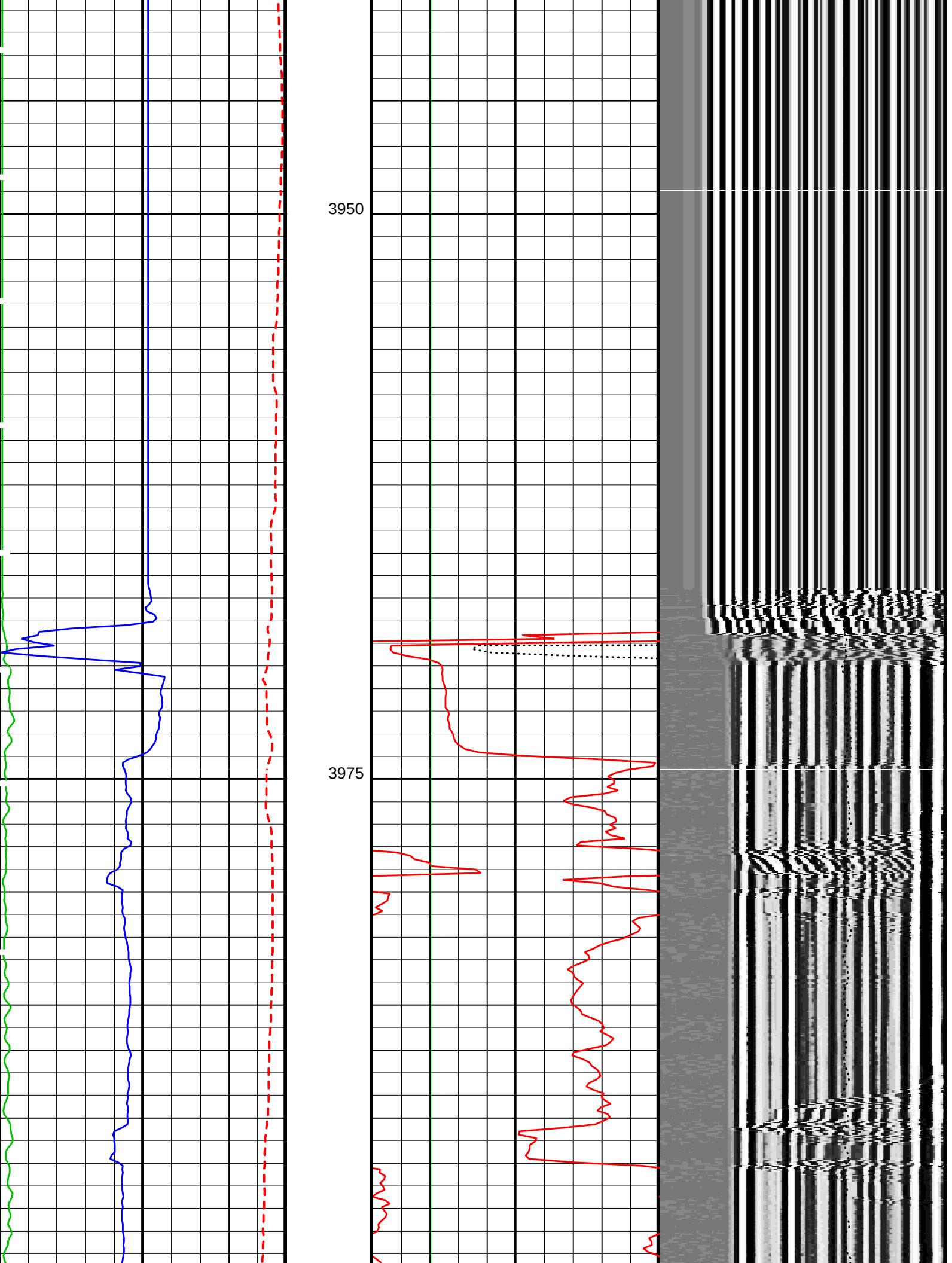
Min Amplitude Max
VDL VariableDensity (VDL)
200 (US) 1200

Gamma Ray (GR)
0 (GAPI) 100

CBL Amplitude (CBL)
0 (MV) 10

Tension (TENS)
10000 (LBF) 0

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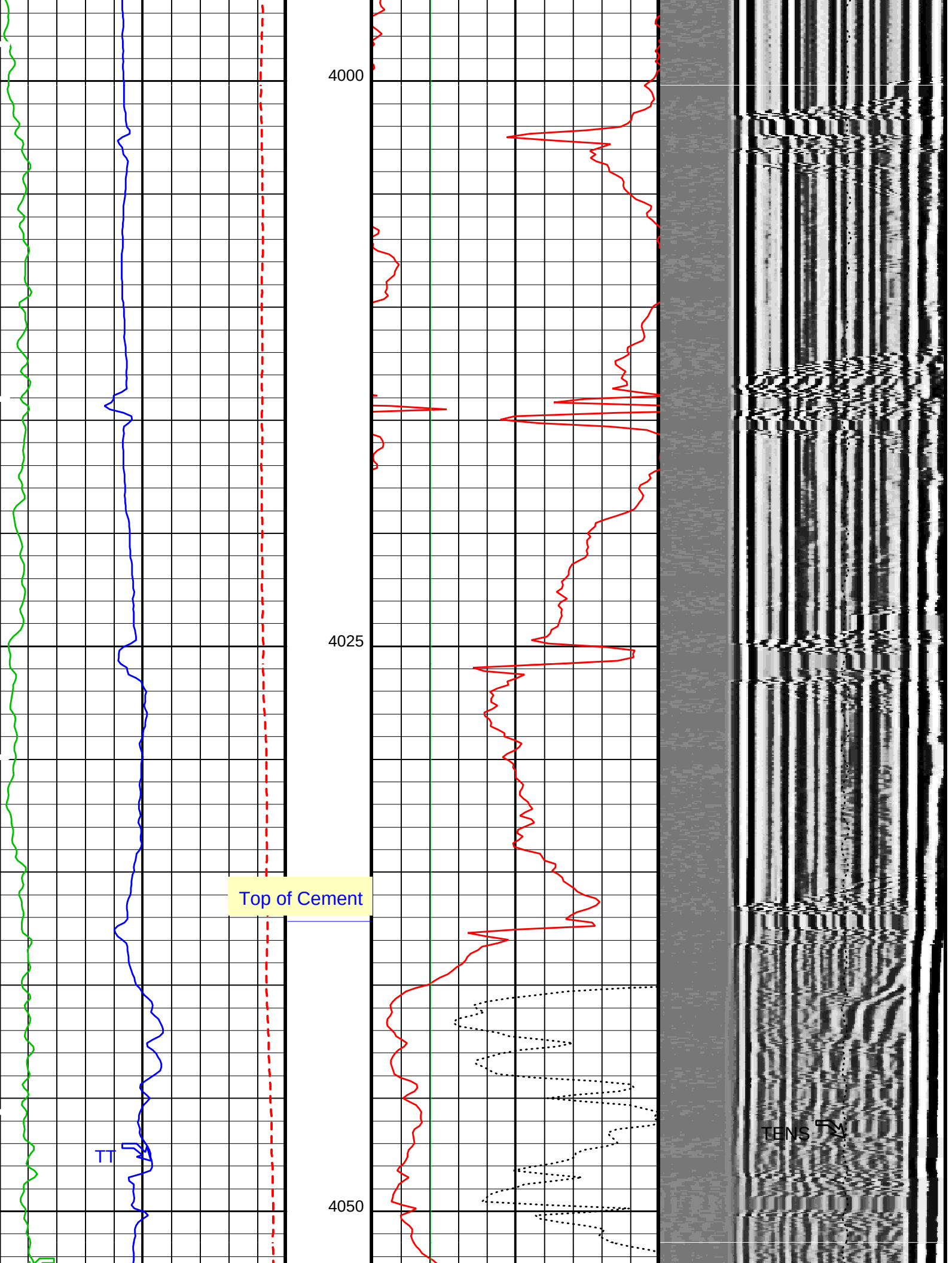
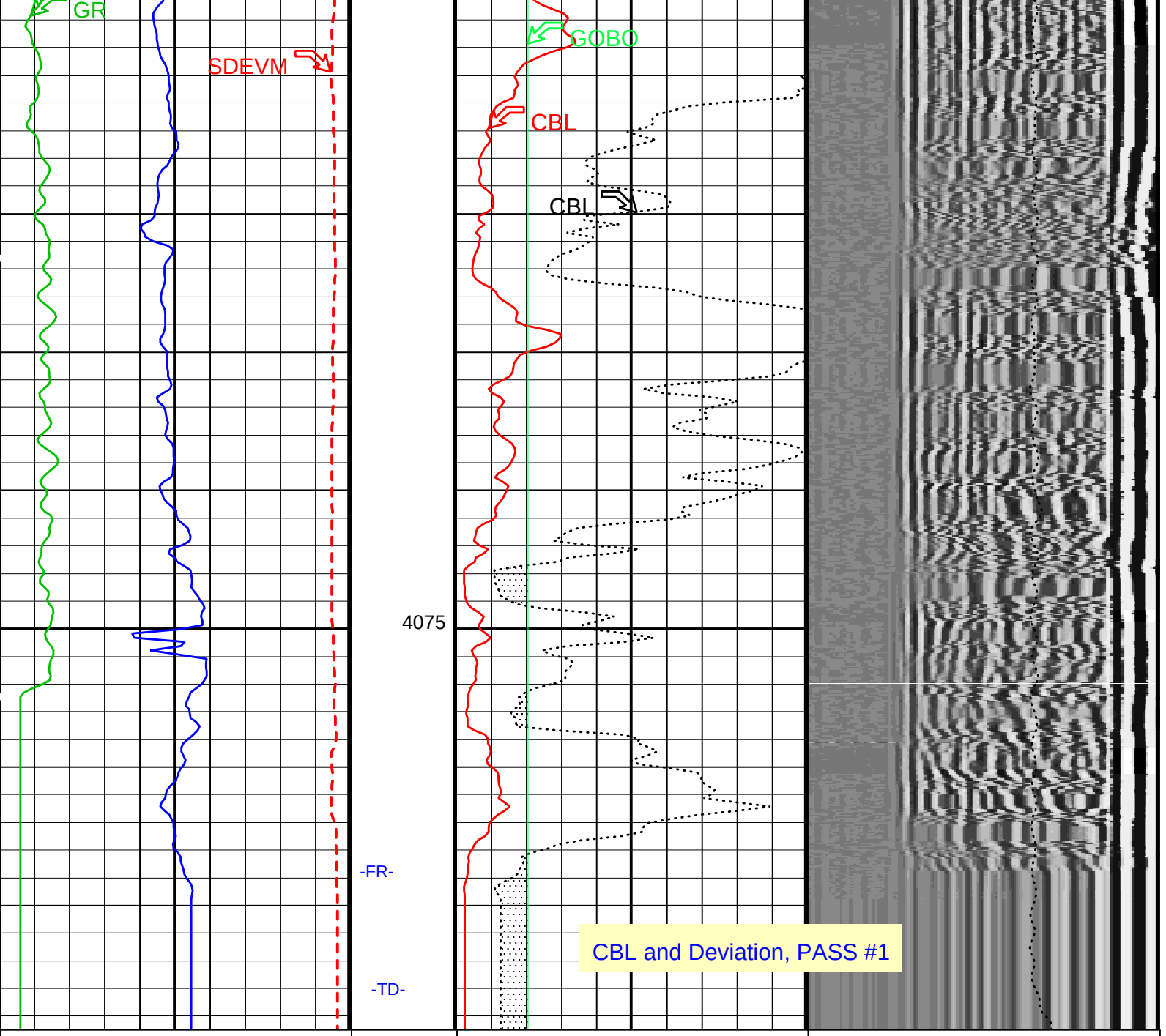

4000
4025
4050
Top of Cement
TT
TENS



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	DSLT-FTB: Digitizing Sonic Logging Tool	
	DSLT Firing Mode	CBL_W
	Telemetry Mode	DSLC_FTB

AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	156	US
BILI	Bond Index Level for Zone Isolation	0.8	
CBAF	CBL Adjustment Factor	1.4	
CBCF	CBL Correction Factor	4	
CBLG	CBL Gate Width	100	US
CDTS	C-Delta-T Shale	100	US/F
CSTR	Compressive Strength of Cement	6894	KPAA
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E1	
DFAD	Digital First Arrival Detection Switch	HOST	
DFAD_TYPE	DFAD type	DFAD2	
DIVL	DSLT Depth Sampling Interval	60	
DRCS	DSLT DLIS Recording Size	120	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLC Telemetry Frame Size	236	
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizing Word Count	120	
FCF	CBL Fluid Compensation Factor	1	
GAI	Manual Gain	40	
GOBO	Good Bond	2	MV
HRSP	High Resolution Spacing	5.118	IN
ITTS	Integrated Transit Time Source	DT	
LTUT	Lower to Upper Transmitter Spacing Ratio	1	
MAHTR	Manual High Threshold Reference	40	
MCI	Minimum Cemented Interval for Isolation	5.14274	M
MGAI	Maximum Gain	1000	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	30	
MODE	Sonic Firing Mode	CBL	
MSA	Minimum Sonic Amplitude	4.47948	MV
NMSG	Near Minimum Sliding Gate	193	US
NMXG	Near Maximum Sliding Gate	595	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R7	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	13	DB/M
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	AUTO	
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	56	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	5	
WAGC	Waveform AGC Allow/Disallow	ON	
WGAI	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
SGT-N: Scintillation Gamma-Ray - N			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	12	DEGC
DPPM	Density Porosity Processing Mode	STAN	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	SGT Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
SOGR	SGT Standoff Distance	0	IN
GPIT-A/B: General Purpose Inclinometer			
ACPP	Accelerometer PROM Presence	PRESENT	
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ART	Accelerometer Reference Temperature	20	DEGC
GLM	GPIT Logging Mode	STAN	
ICMO	Inclinometry Computation Mode	CASED_HOLE	
MAPP	Magnetometer PROM Presence	PRESENT	
MDEC	Magnetic Field Declination	8.91858	DEG
MRTE	Magneto Reference Temperature	19	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	18.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	10.750	IN
CWEI	Casing Weight	47.00	LB/F

CWEI	Casing Weight	47.00	LB/F
DFD	Drilling Fluid Density	1.10	G/C3
DO	Depth Offset for Playback	0.0	M
MST	Mud Sample Temperature	30.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	OFF	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	M
TDD	Total Depth - Driller	4081.00	M
TDL	Total Depth - Logger	-50000.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: CBL_VDL Vertical Scale: 1:200 Graphics File Created: 25-Jun-2002 20:54

OP System Version: 10C0-306

MCM

DSLT-FTB	OP10-KP1	SGT-N	10C0-306
DTC-H	10C0-306	GPIT-A/B	10C0-306

Input DLIS Files

DEFAULT	MERGE_SONIC_015	FN:1	PRODUCER	25-Jun-2002 20:46	4089.5 M	3908.5 M

Output DLIS Files

DEFAULT	SONIC_017PUP	FN:15	PRODUCER	25-Jun-2002 20:54

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Scintillation Gamma-Ray - N Wellsite Calibration - Detector Calibration							
Before: 15-Jun-2002 2:04							
Gamma Ray (Jig - Bkg)	163.4	N/A	163.4	N/A	N/A	14.86	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI
General Purpose Inclinometer Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 24-Jun-2002 21:19							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	
General Purpose Inclinometer Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 24-Jun-2002 21:19							
TEMPERATURE REFERENCE :	N/A	N/A	19	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	

Scintillation Gamma-Ray - N / Equipment Identification

Primary Equipment:		
Scintillation Gamma Cartridge	SGC - TB	9585
Scintillation Gamma Detector	SGD - TAA	
Auxiliary Equipment:		
Scintillation Gamma Housing	SGH - K	245
Gamma Source Radioactive	GSR - U/Y	135

Scintillation Gamma-Ray - N Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before	0 (Minimum) / 30.00 (Nominal) / 120.0 (Maximum)	4.554	Before	148.6 (Minimum) / 163.4 (Nominal) / 178.3 (Maximum)	163.4	Before	150.0 (Minimum) / 165.0 (Nominal) / 180.0 (Maximum)	165.0

Before: 15-Jun-2002 2:04

General Purpose Inclinometer / Equipment Identification

Primary Equipment:	
GPIT Cartridge - A	GPIC - A
Auxiliary Equipment:	
GPIT Housing	GPIH - A

Company: Lamont Doherty

Schlumberger

Well: ODP Leg 203 Site1243A
Field: Equatorial Pacific IMO
Country: Panama
Ocean: Pacific

Cement Bond Log
Gamma Ray
Deviation