

Well:	Wombat-4
Field:	Wombat
Rig:	Hunt #2
	Country: Australia

[illegible][illegible]

Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth		@	
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density	Viscosity		
Fluid Loss	PH		
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			

DEPTH SUMMARY LISTING

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-42ZV XS
Serial Number:	3718	Serial Number:	2007	Serial Number:	6284
Calibration Date:	01-Jul-09	Calibration Date:	20-Oct-09	Length:	5482 M
Calibrator Serial Number:	30	Calibrator Serial Number:	1050	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	7-42ZV XS	Number of Calibration Points:	10		
Wheel Correction 1:	-4	Calibration RMS:	12		
Wheel Correction 2:	-4	Calibration Peak Error:	27		

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	HALS-BHC-PEX
Reference Log Run Number:	1
Reference Log Date:	28-Oct-09

1. All Schlumberger depth control procedures followed
2. IDW used as primary depth control, Z-Chart as secondar
3. Run 2 (top section) was a subsequent log, Run 3 (bottom section) was a subsequent trip

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.

Maximum temperature recorded was 84degC from LEH-OT thermometers

Run 3	Run 4
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Repeat Pass not Performed, After Cals not performed – as requested by client.

Sonic Scanner set up for Small Open Hole, not cased hole.

DCBL–VDL run was undertaken in same pass as BHC / SS run.

Service was requested at wellsite during run.

DCBL–VDL not normalised for freepipe.

RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
B6PE-00025 17C0-154 0 m					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

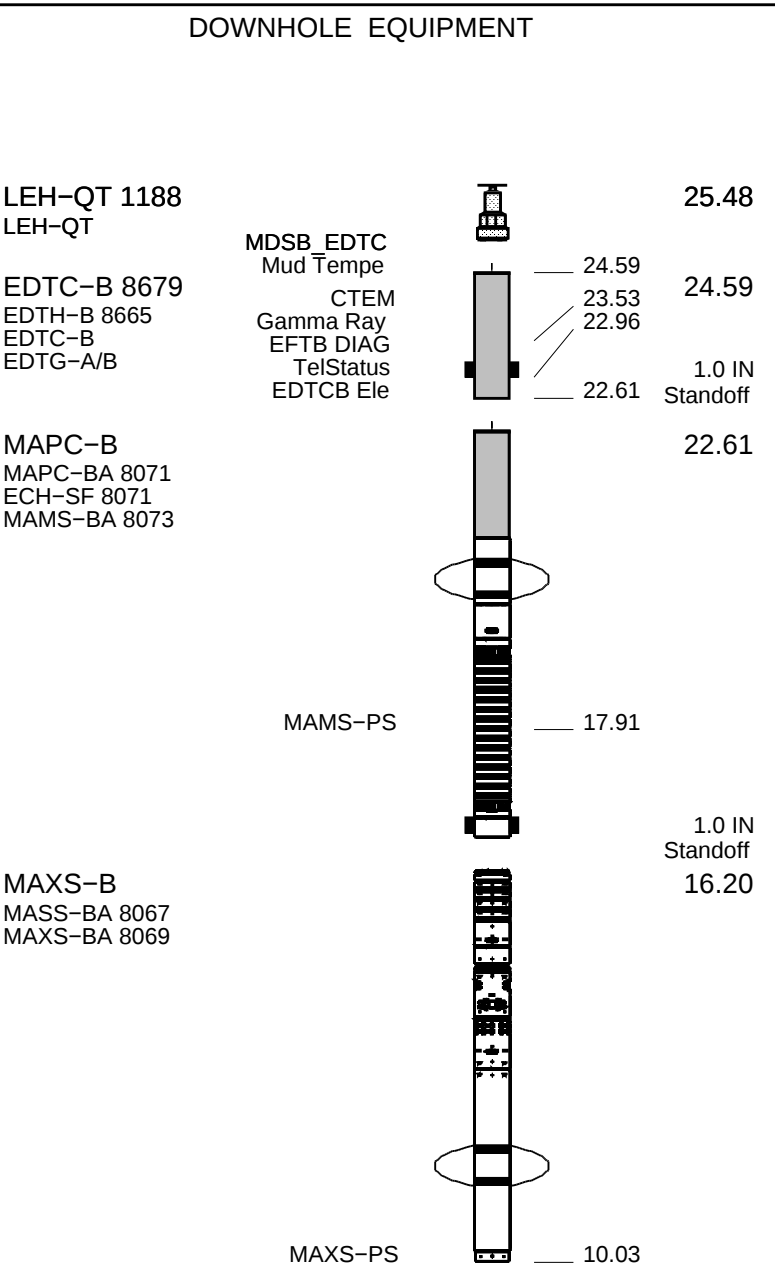
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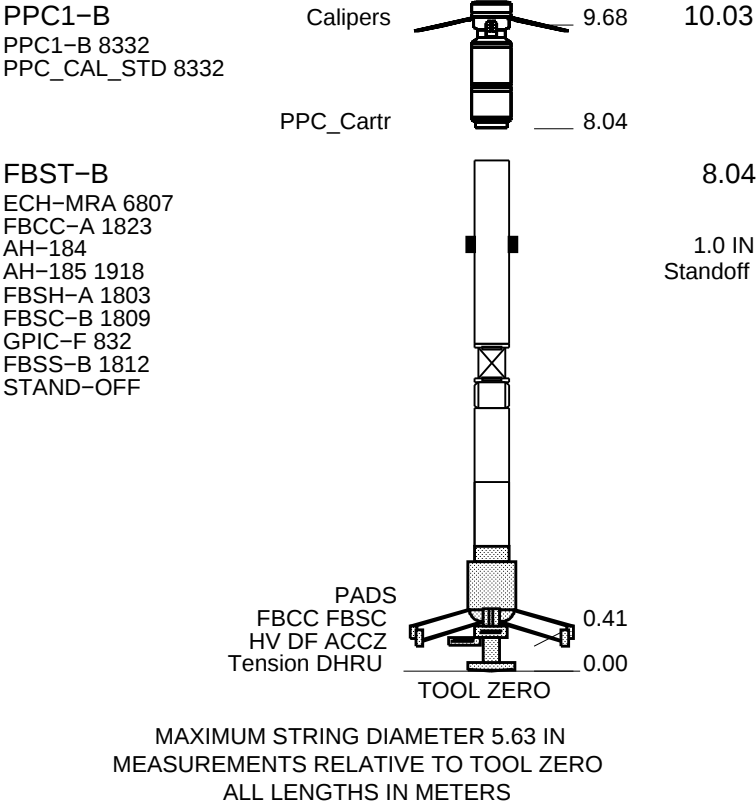
RUN 1

RUN 2

SURFACE EQUIPMENT

WITM (EDTS)–A 929





Client: Lakes Oil

Well: Wombat 4

Field: Wombat

State: Victoria

Country: Australia

Rig Name: Hunt 2

Reference Datum: Derrick Floor

Elevation: 26.6 m

Drawing Date: 11/12/2009

API #:

Production String	(in) (m)			Well Schematic	(m) (in)			Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	7.000		Casing String
					0.0	9.625		Casing String
					299.0	9.625		Casing Shoe
					299.0	8.500		Borehole Segment

						1361.3 1361.3 1361.0	7.000 8.500 6.125		Casing Shoe Borehole Segment Bottom Borehole Segment
						2500.0	6.125		Borehole Segment Bottom

All Depths are drillers
depths

MAST Parameters

[MAST_PARAM_060.PDS 19-Nov-2009 14:41]

Product Class:
Customized

Environment Infomation

FORM_TYPE	Intermediate
VSLO_COMP	No
MUDT	Water Based Mud
DTF	204.500 US/F
BH_STAT	Cased Hole
BDIAM	6.125 IN
CSIZ	7.000 IN
BS	6.125 IN
DLHS	HD1_PPC1
CWEI	29.000 LB/F
DFD	9.900 LB/G
ZCMT	6.800 MRAY
VDL_MODE	Normal

Data Channel Identification

MEASURE_NUMBER	#07	#08
DATAID_WFA	WMUH	WMLH
DATAID_WFA_MONO	-	-
DATAID_WFA_DIN	-	-
DATAID_WFA_DIOF	-	-
MEASURE_NAME	DCBL_VDL Monopole Upper	DCBL_VDL Monopole Lower

Measurement

MEASURE_TYPE	NM DCBL-VDL	NM DCBL-VDL
TXSEL	MU	ML

WFSEL	mp_hf_d	mp_hf_d
TXWFTYPE	No Deconv	No Deconv
TXCONV	3 us	3 us
TX_WF_FREQ	High	High
TX_WF_CATEG	Normal	Normal
TX_AMP	100 %	100 %
SAMINT	10 us	10 us
DIGTIME	1000.0 US	1000.0 US
DIGDEL	200.0 US	200.0 US
DIGDT	0.0 US/F	0.0 US/F
GNINT	1000.0 US	1000.0 US
ELTSEL	-	-
NWF	40	40
GAINSEL	-	-
COMPCTL	MZIP A	MZIP A
AUX_ACQ	All	All
MODALCTL	Disallow	Disallow
MODALENE	Disallow	Disallow
AUTOFREQ	Disallow	Disallow
SCORCTL	Allow	Allow

Measurement:DWFn_SPEC

DWF1_SPEC	-
DWF1_MONO_SPEC	-
DWF2_SPEC	-
DWF2_MONO_SPEC	-
DWF3_SPEC	-
DWF3_MONO_SPEC	-
DWF4_SPEC	-
DWF4_MONO_SPEC	-
DWF5_SPEC	-
DWF5_DIIN_SPEC	-
DWF6_SPEC	-
DWF6_DIIN_SPEC	-
DWF7_SPEC	WFA7/9/1
DWF8_SPEC	WFA8/5/1

Cement Evaluation ATD and Attenuation

CE_NMSGA	216 US	216 US
CE_SGDTA	57 US/F	57 US/F
CE_CBLGA	80 US	80 US
NFPI_MU	3000.0	
NFPI_ML	3000.0	

Cement Evaluation DCBL

CE_DCBLSEL	3-5 ft
MATT	34.5 DB/M
MCI	3.0 M
MSA	2.7 MV
CBRA	63.0 MV
CTHI	0.4 IN
CMCF	1.0
BILI	0.8
GOBO	5.1 MV
RBC	Disallow
SALL_NEAR	290.0
SALL_FAR	36.0

Cement Evaluation VDL Selection

CE_VDLSEL	MU 5 ft
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Cement Evaluation VDL

CE_VFILSWA	EXT_FIL	EXT_FIL
CE_VDLGRA	5.0	5.0
CE_VLCFILA	3.0	3.0

Common Parameters

AZIM_SELECT	NONE
AZIM_PROC_SWITCH	ON

MAST Parameter Descriptions

Environment Infomation

USNAME	Description
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FORM_TYPE	Formation Type
VSLO_COMP	Very Slow Compressional
MUDT	Mud Type
DTF	Delta-T Fluid
BH_STAT	Borehole Status
BDIAM	Borehole Diameter
CSIZ	Current Casing Size
BS	Bit Size
DLHS	Hole Diameter Source for SOBS Channel
CWEI	Casing Weight
DFD	Drilling Fluid Density
ZCMT	Acoustic Impedance of Cement
VDL_MODE	DCBL/VDL Mode for Cement Evaluation

Data Channel Identification

DATAID_WFA	MSIP-L Waveform Data ID in Horizon Naming Convention for WFA
DATAID_WFA_MONO	MSIP-L Waveform Data ID in Horizon Naming Convention for WFA_MONO
DATAID_WFA_DIN	MSIP-L Waveform Data ID in Horizon Naming Convention for WFA_DIN
DATAID_WFA_DIOF	MSIP-L Waveform Data ID in Horizon Naming Convention for WFA_DIOF
MEASURE_NAME	Measurement Names

Measurement

MEASURE_TYPE	Measurement Types
TXSEL	Transmitter Drive Selection
WFSEL	Transmitter Drive Waveform Selection
TXWFTYPE	Transmitter Drive Waveform Type
TXCONV	Transmitter Drive Conversion Rate
TX_WF_FREQ	Transmitter Drive Waveform Frequency
TX_WF_CATEG	Transmitter Drive Waveform Category
TX_AMP	Transmitter Amplitude Factor
SAMINT	Waveform Sampling Interval
DIGTIME	Waveform Digitizing Time
DIGDEL	Waveform Digitizing Delay
DIGDT	Waveform Digitizing Delta-T
GNINT	Waveform Gain Interval
ELTSEL	Receiver Sensor Element Selection
NWF	Number of Waveforms
GAINSEL	Sensor Gain Selection
COMPCTL	Data Compression Control
AUX_ACQ	Aux Acquisition Mode
MODALCTL	Modal Computation Control
MODALENE	Downhole Modal Energy Computation Option
AUTOFREQ	Automatic Frequency Selection
SCORCTL	Sensor Correction Control

Measurement:DWFn_SPEC

DWF1_SPEC	Channel/Station/Azimuth for VDL (DWF1) of Measurement 1
DWF1_MONO_SPEC	Display Waveform 1 Monopole Input Channel Specification
DWF2_SPEC	Channel/Station/Azimuth for VDL (DWF2) of Measurement 2
DWF2_MONO_SPEC	Display Waveform 2 Monopole Input Channel Specification
DWF3_SPEC	Channel/Station/Azimuth for VDL (DWF3) of Measurement 3
DWF3_MONO_SPEC	Display Waveform 3 Monopole Input Channel Specification
DWF4_SPEC	Channel/Station/Azimuth for VDL (DWF4) of Measurement 4
DWF4_MONO_SPEC	Display Waveform 4 Monopole Input Channel Specification
DWF5_SPEC	Channel/Station/Azimuth for VDL (DWF5) of Measurement 5
DWF5_DIIN_SPEC	Display Waveform 5 Dipole Inline Channel Specification
DWF6_SPEC	Channel/Station/Azimuth for VDL (DWF6) of Measurement 6
DWF6_DIIN_SPEC	Display Waveform 6 Dipole Inline Input Channel Specification
DWF7_SPEC	Channel/Station/Azimuth for VDL (DWF7) of Measurement 7
DWF8_SPEC	Channel/Station/Azimuth for VDL (DWF8) of Measurement 8

Cement Evaluation ATD and Attenuation

CE_NMSGA	Near Minimum Sliding Gate Array for Cement Evaluation
CE_SGDTA	Sliding Gate Delta-T Array for Cement Evaluation
CE_CBLGA	CBL Gate Width Array for Cement Evaluation
NFPI_MU	Free Pipe Amplitude for MU
NFPI_ML	Free Pipe Amplitude for ML

Cement Evaluation DCBL

CE_DCBLSEL	DCBL Selection for Cement Evaluation
MATT	Maximum Attenuation
MCI	Minimum Cemented Interval for Isolation
MSA	Minimum Sonic Amplitude

CBRA	CBL LQC Reference Amplitude in Free Pipe
CTHI	Casing Thickness
CMCF	CBL Cement Type Compensation Factor
BILI	Bond Index Level for Zone Isolation
GOBO	Good Bond
RBC	Relative Bearing Correction Allow/Disallow
SALL_NEAR	Sonic Amplitude Lower Limit for Near Spacing
SALL_FAR	Sonic Amplitude Lower Limit for Far Spacing

Cement Evaluation VDL Selection

CE_VDLSEL	VDL Selection for Cement Evaluation
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Cement Evaluation VDL

CE_VFILSWA	VDL Filter Switch Array for Cement Evaluation
CE_VDLGRA	VDL Manual Gain Rate Array for Cement Evaluation
CE_VLCFILA	VDL Low Cut Filter Array for Cement Evaluation

Common Parameters

AZIM_SELECT	Azimuth Reference Selection
AZIM_PROC_SWITCH	MAST Azimuth Process Switch



MAIN PASS
(1:200)

MAXIS Field Log

Company: Lakes Oil N.L.	Well: Wombat-4
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Input DLIS Files

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Output DLIS Files

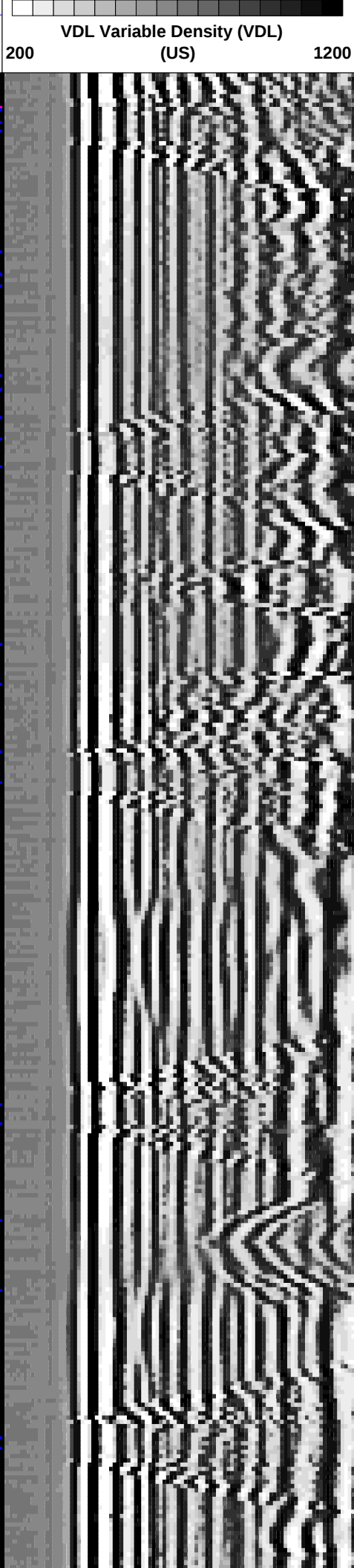
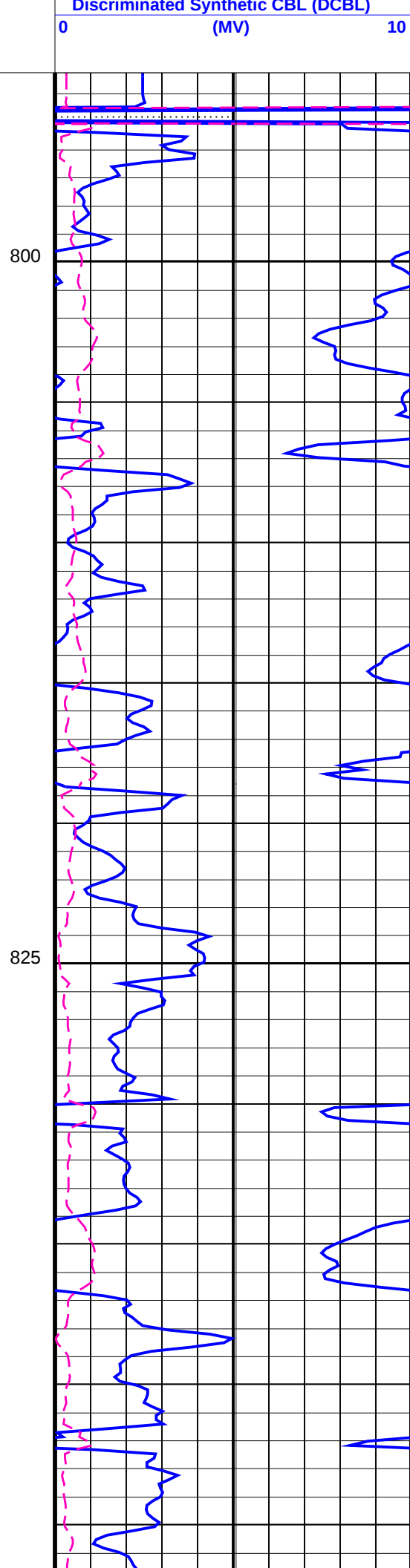
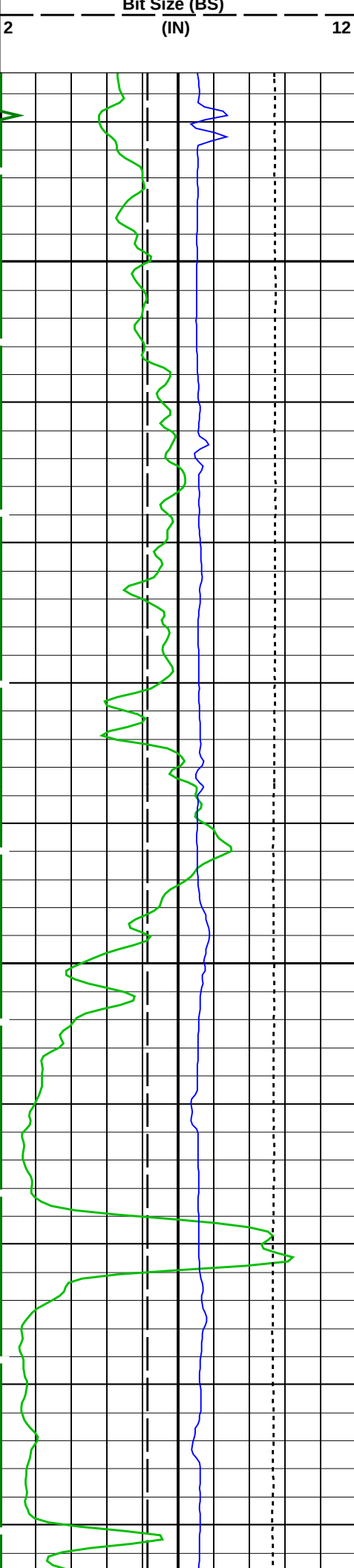
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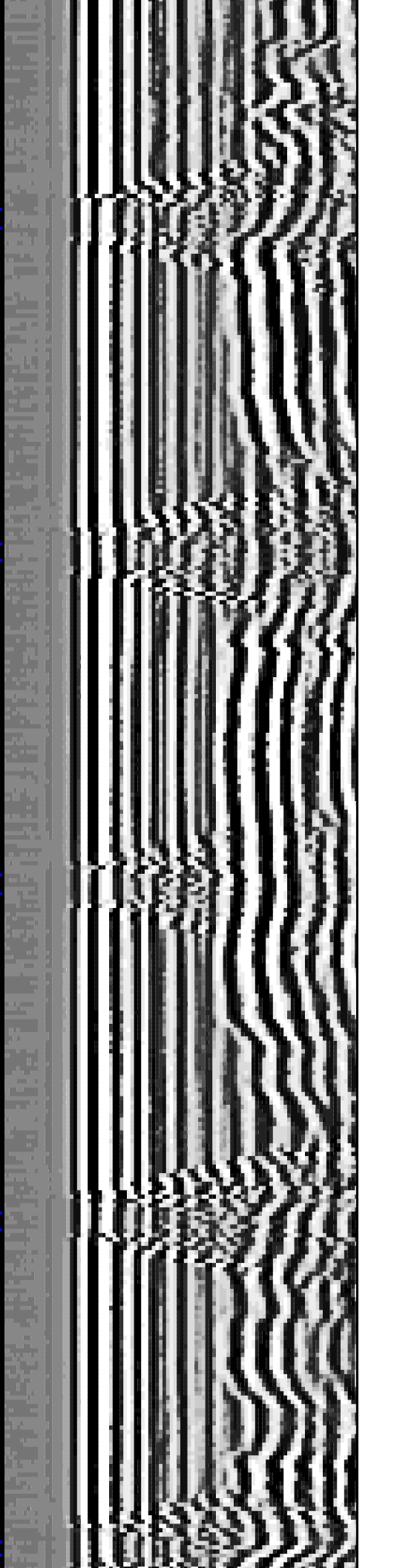
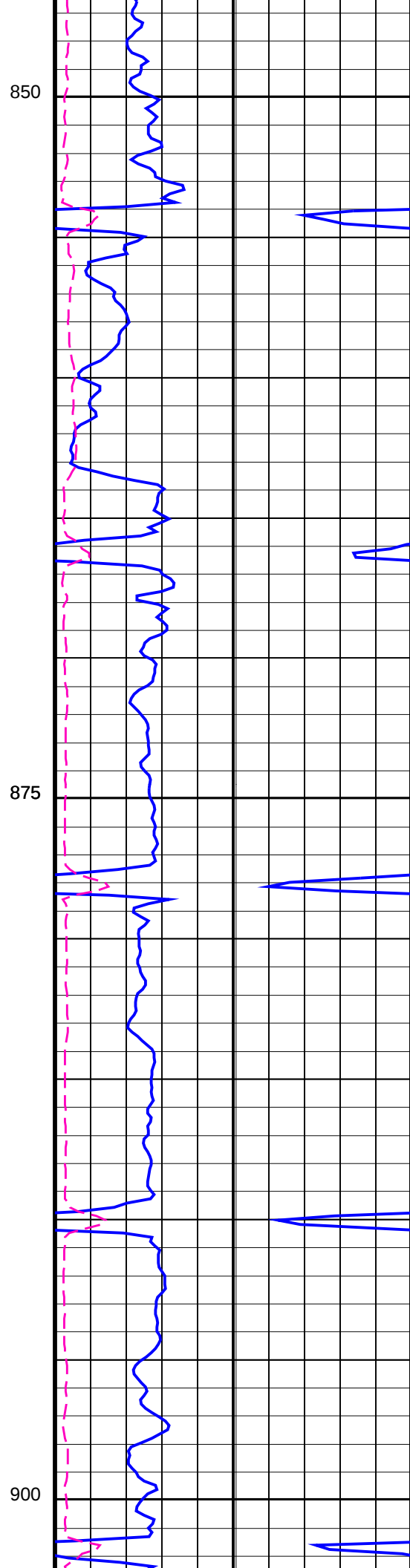
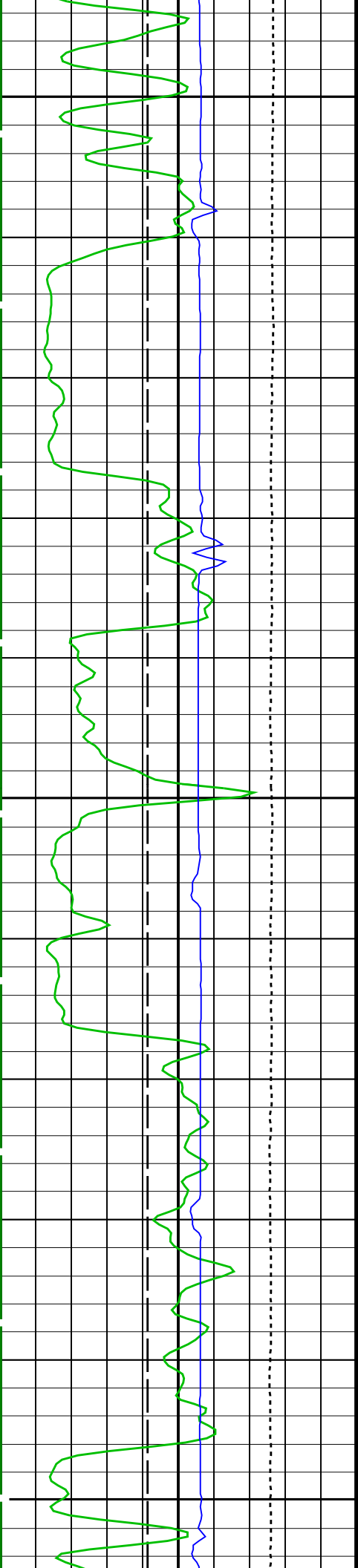
OP System Version: 17C0-154

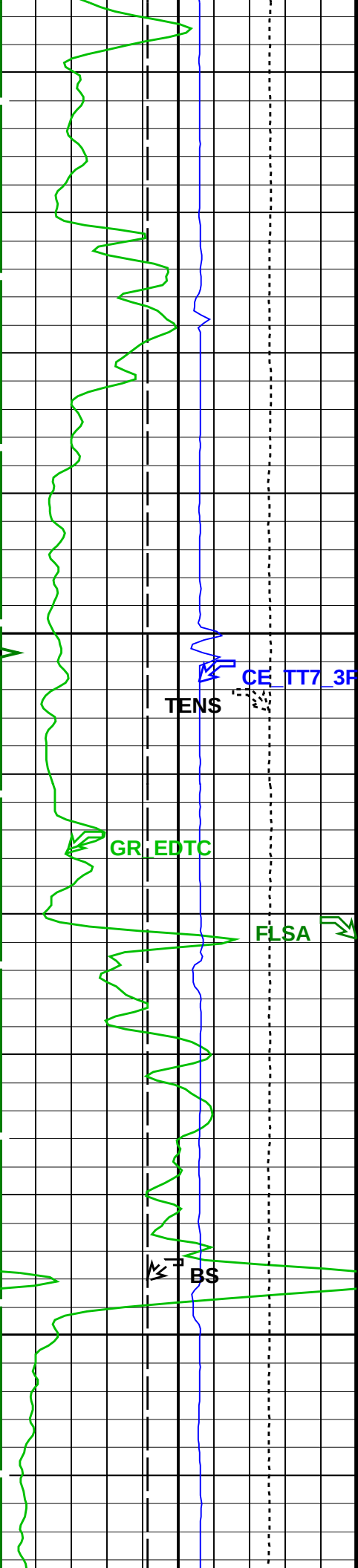
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MAXS-B	SKK-3853-MAST	MAPC-B	SKK-3853-MAST
EDTC-B	SKK-3882-EDTCB		

PIP SUMMARY

Time Mark Every 60 S			
Depth Corrected Transit Time 3FT (CE_TT7_3FT_AVE_DC)		GoodBond From ADCBL to GOBO	
400 (US) 200			
Flag for Low Sonic Amplitude (FLSA)		Good Bond (GOBO)	
0 (----) 20		0 (MV) 10	
Tension (TENS)		Discriminated Attenuation (DATN)	
10000 (LBF) 0		0 (DB/F) 20	
Gamma Ray (GR_EDTC)		Discriminated Synthetic CBL (DCBL)	
0 (GAPI) 150		0 (MV) 50	
			Min Amplitude Max







925

CE TT7 3FT_AVE_DC

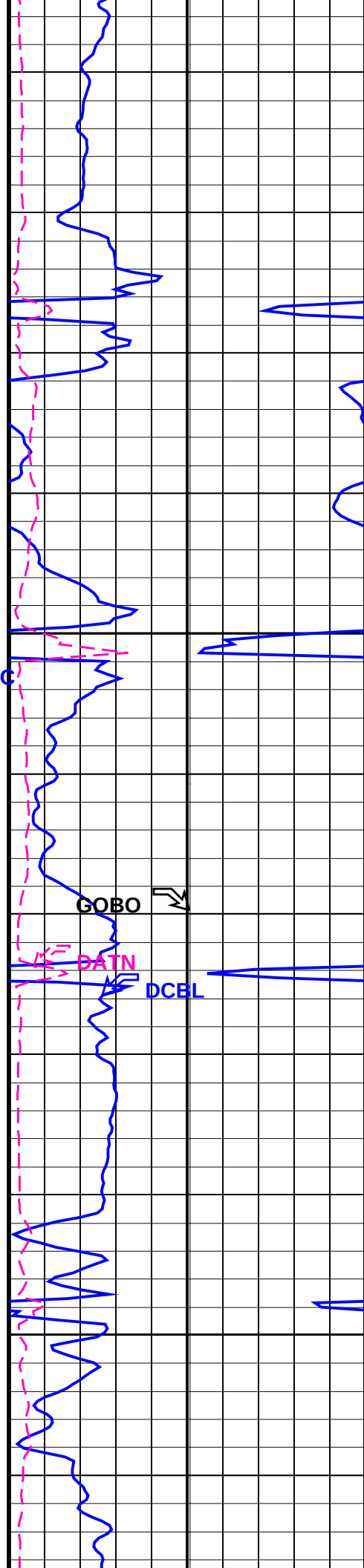
TENS

GR EDTC

FLSA

BS

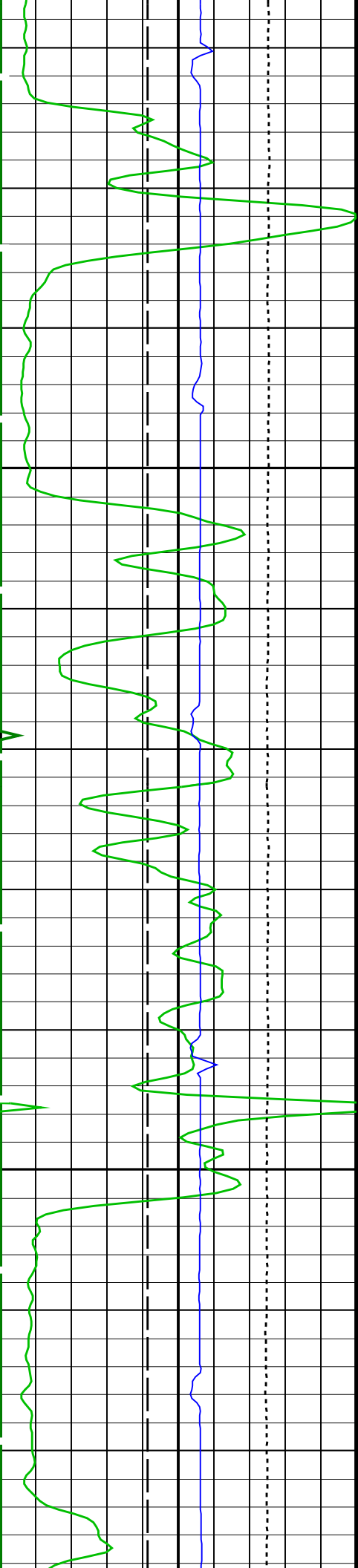
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GOBO

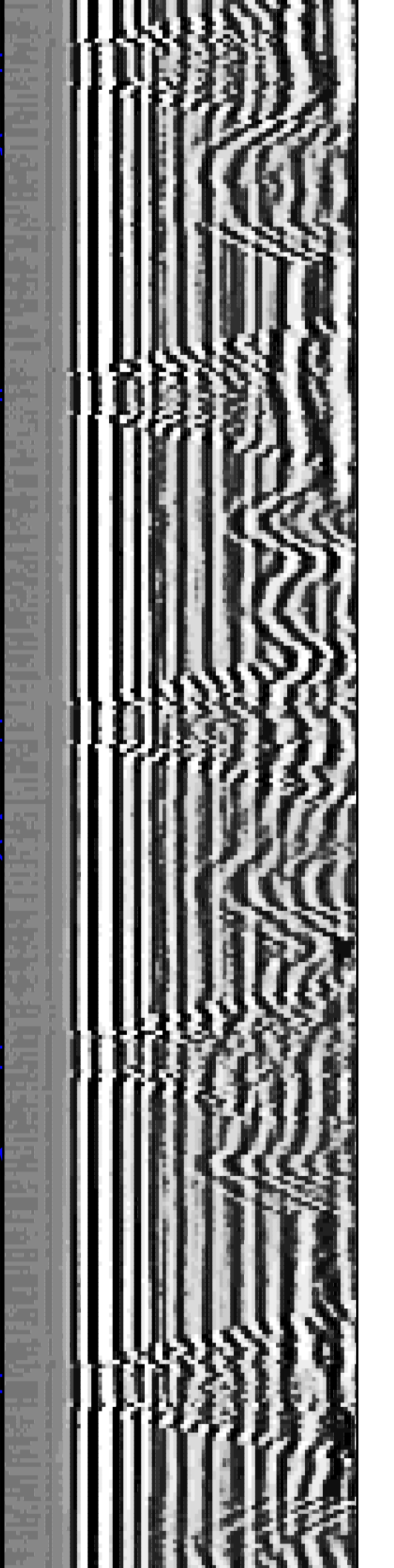
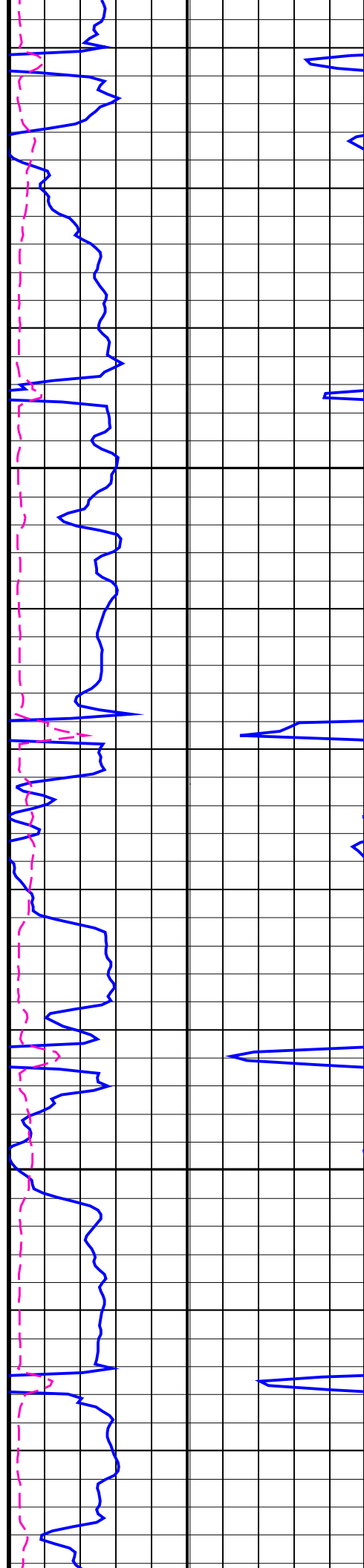
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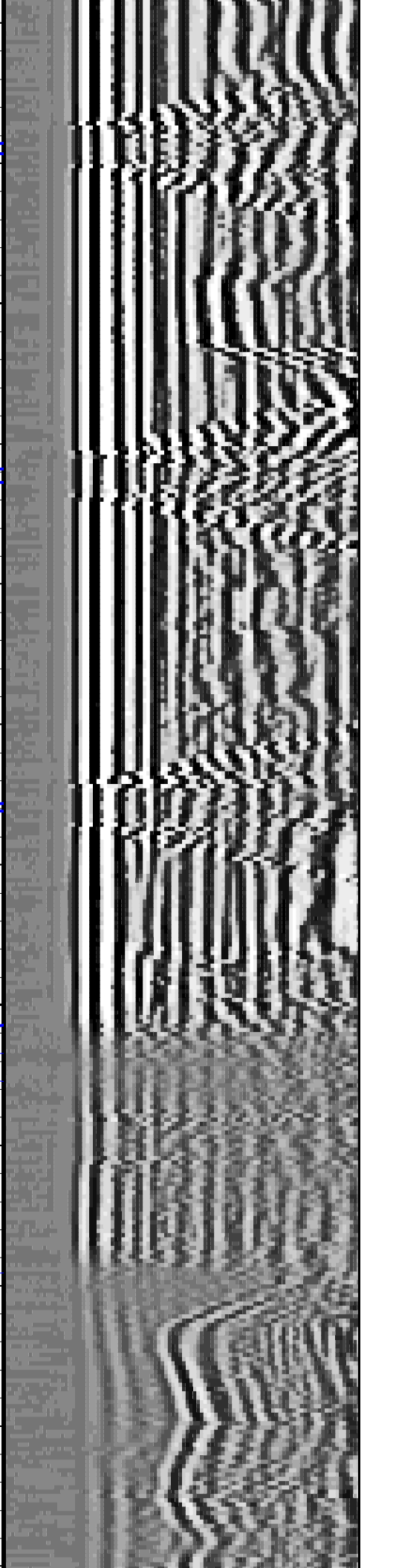
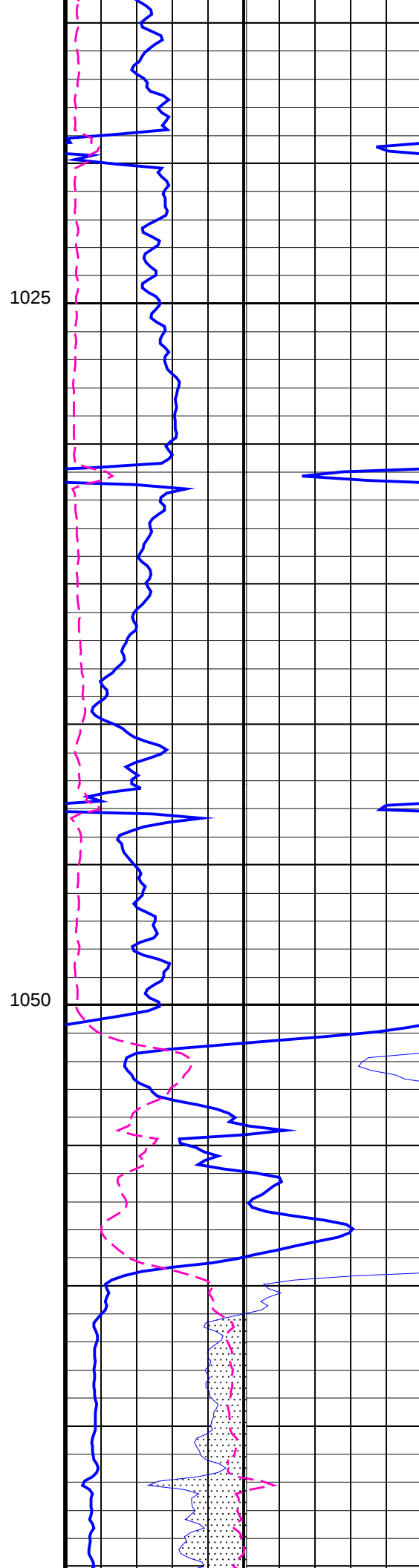
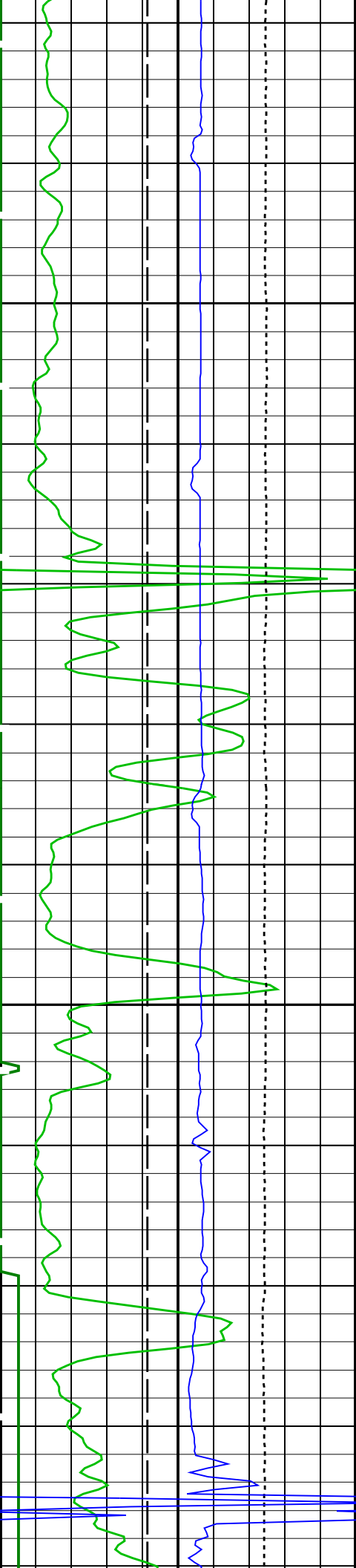
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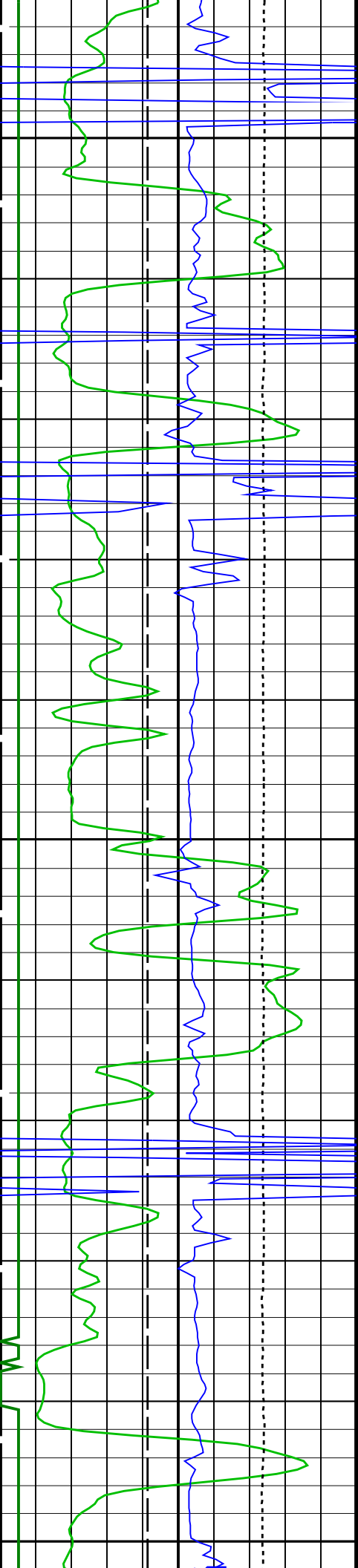


975

1000



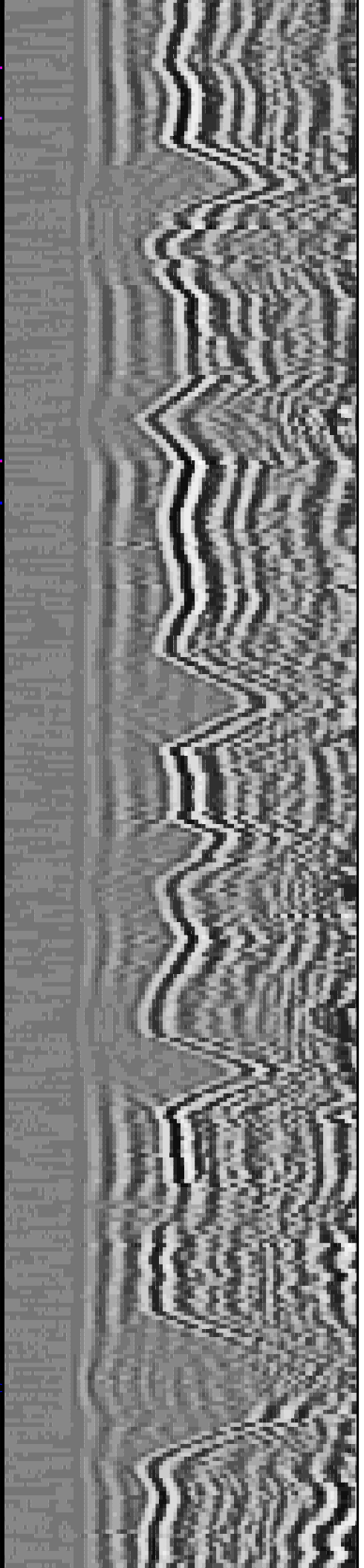
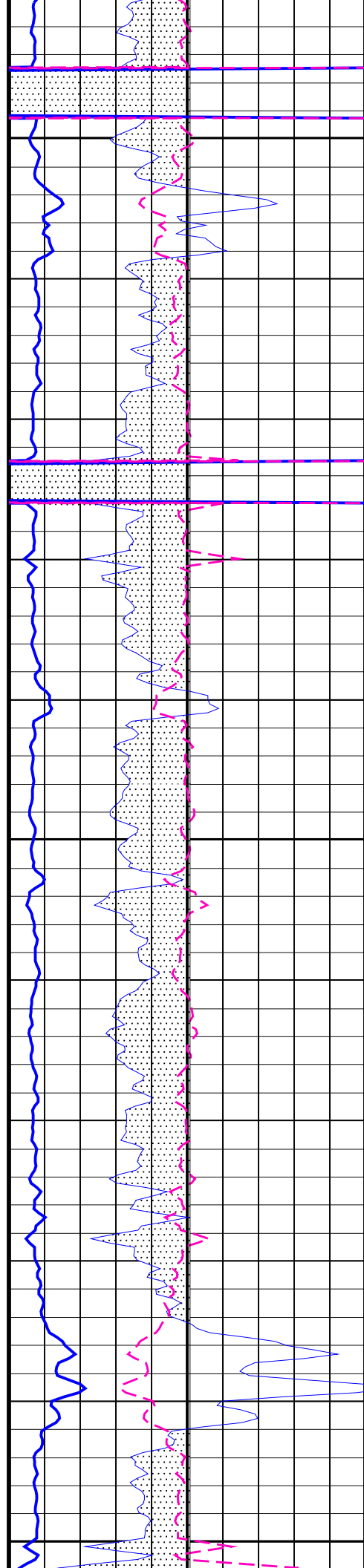


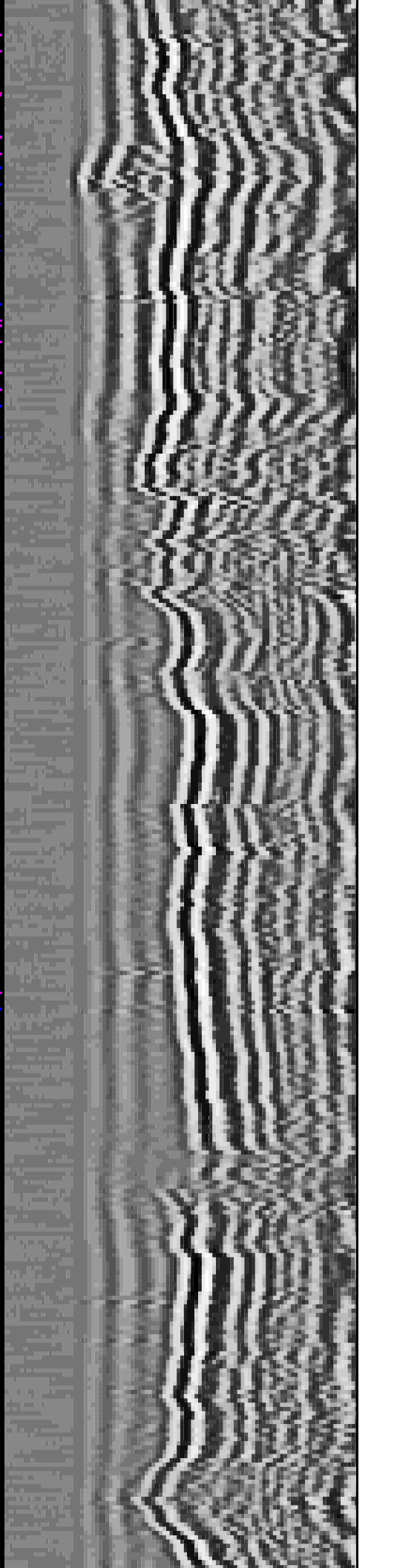
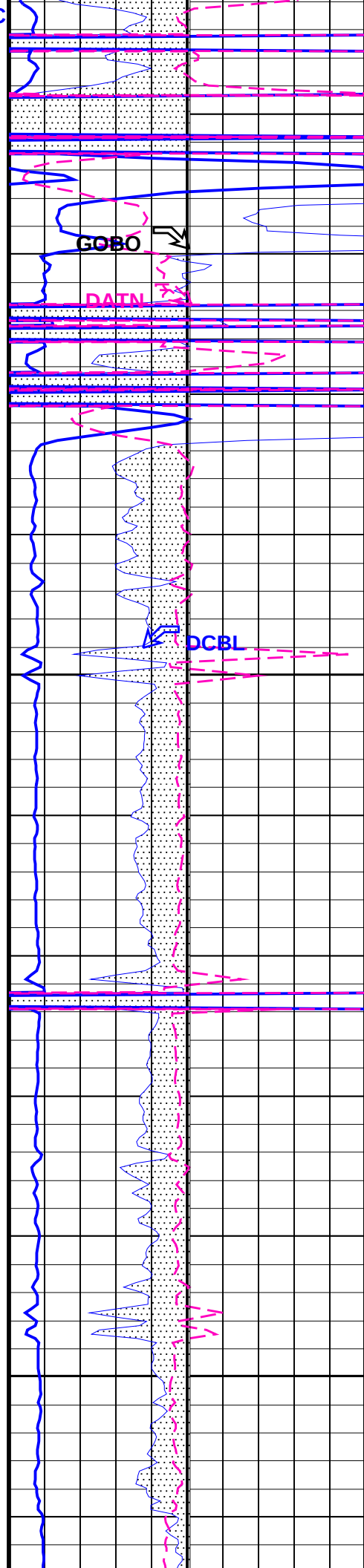
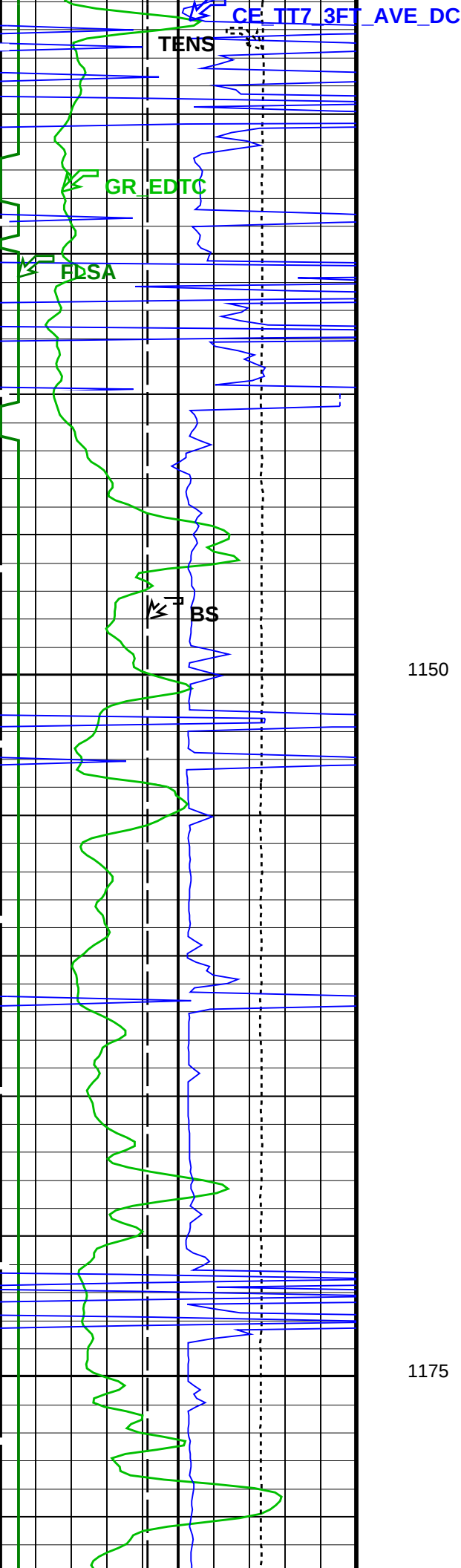


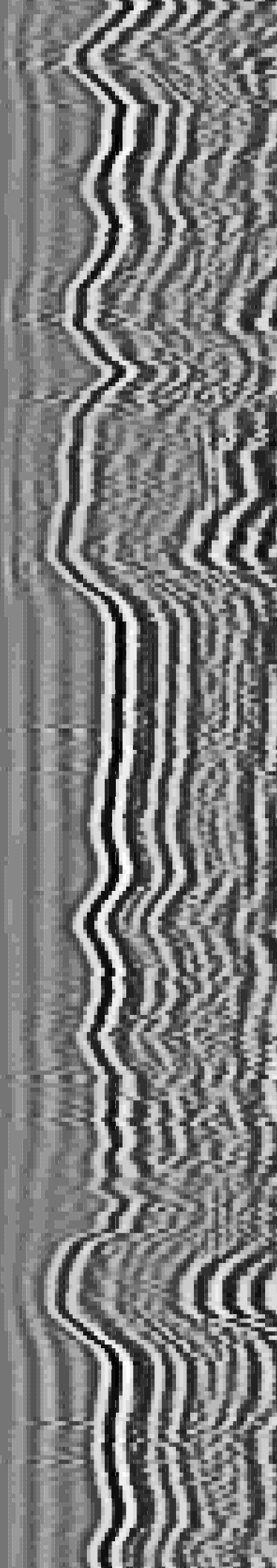
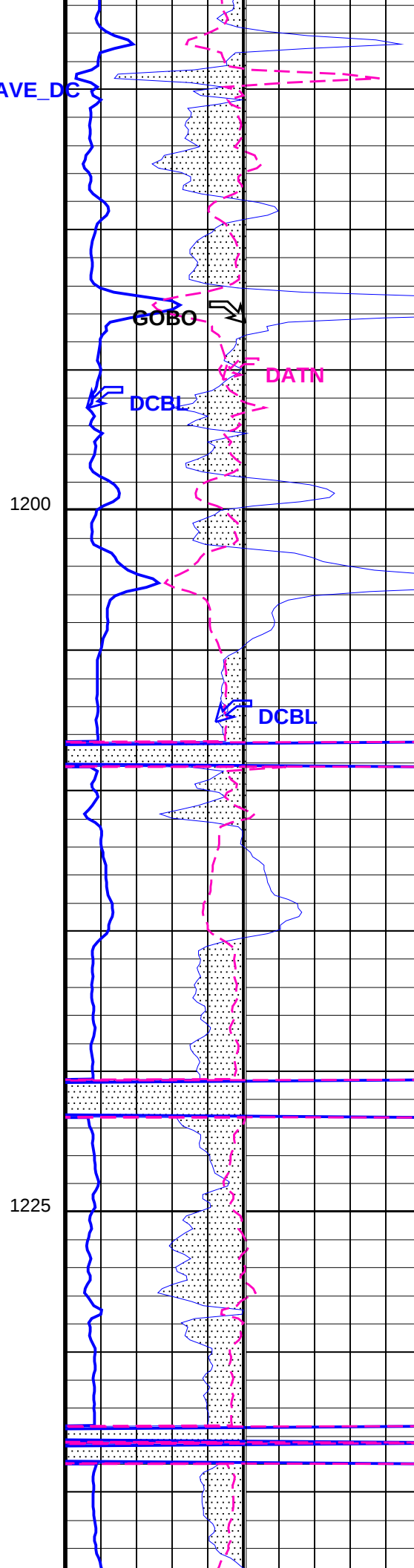
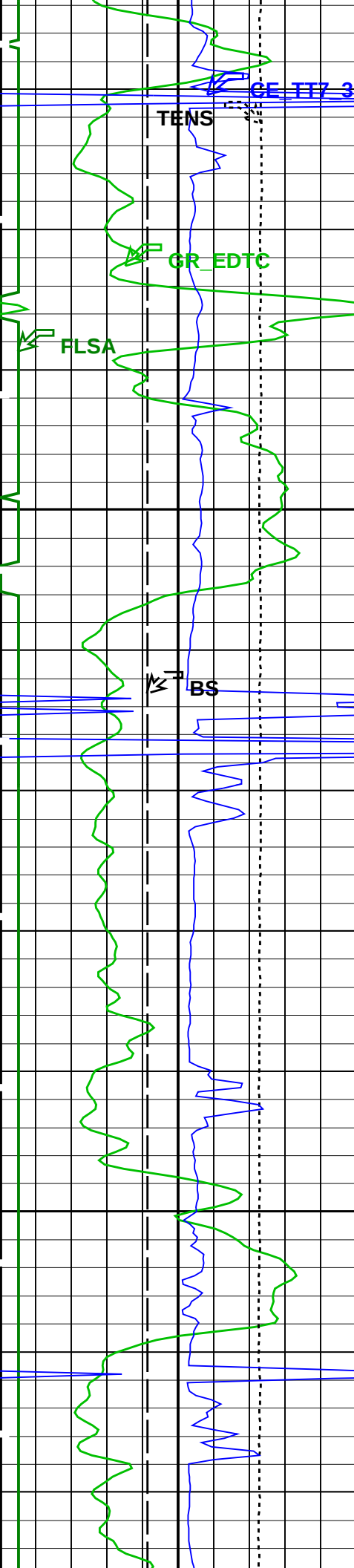
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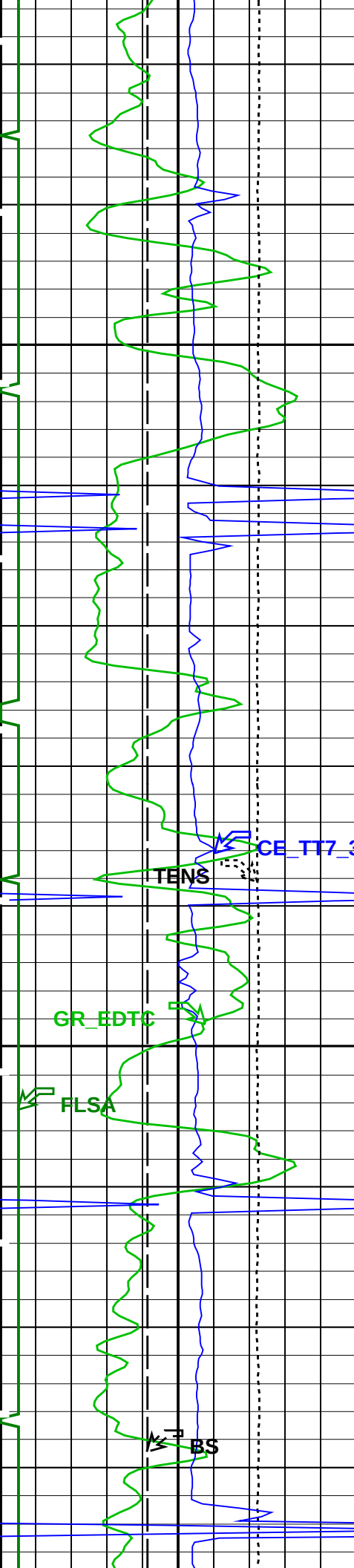
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1125



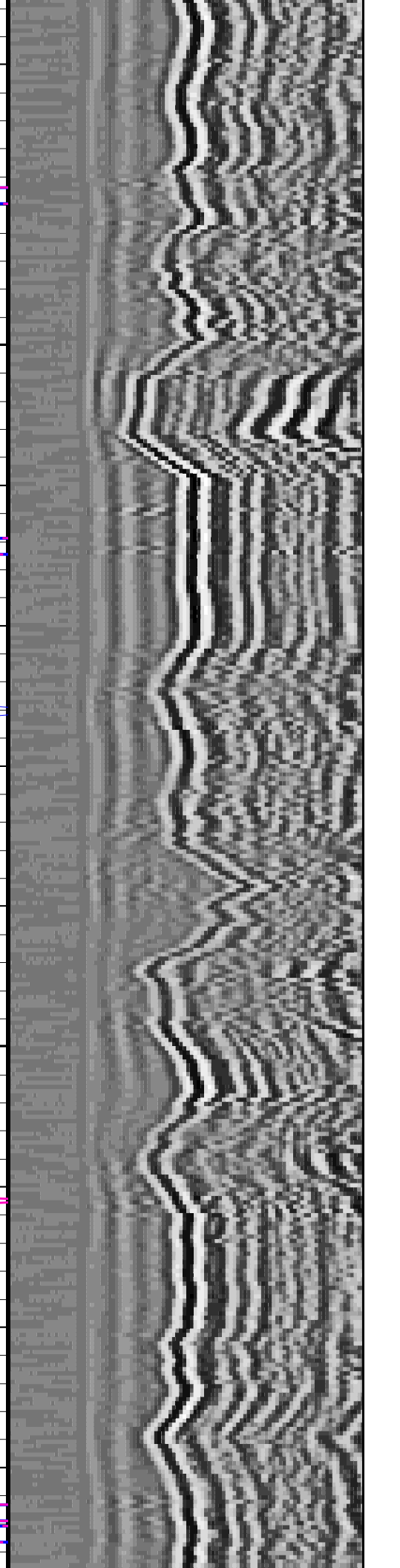
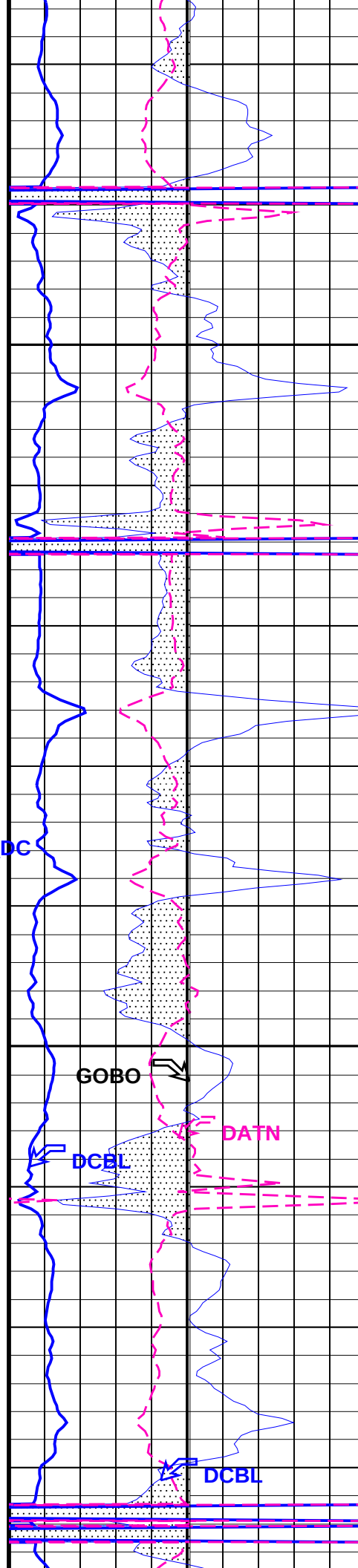


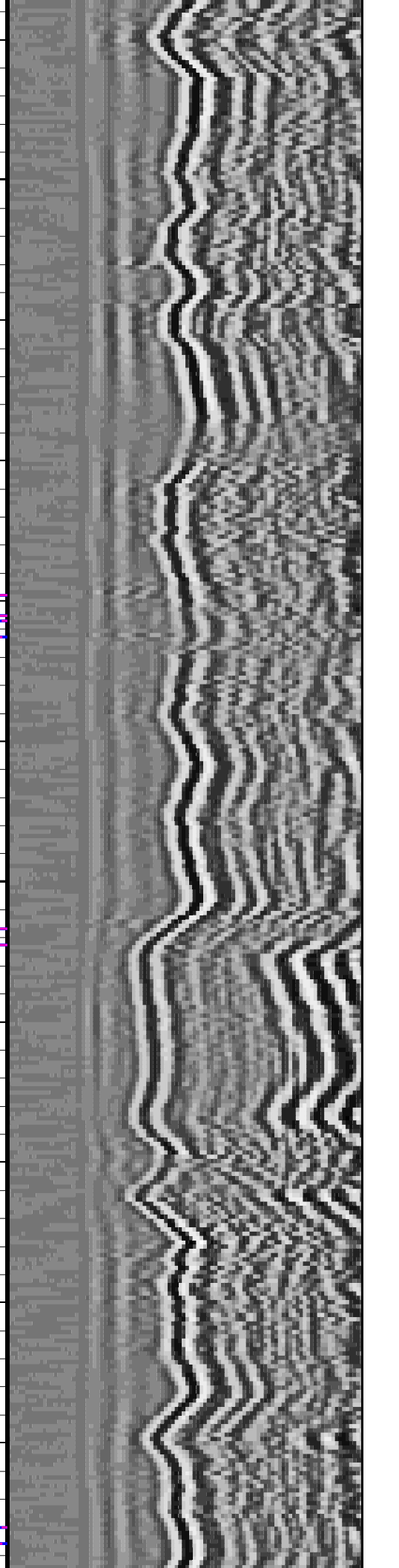
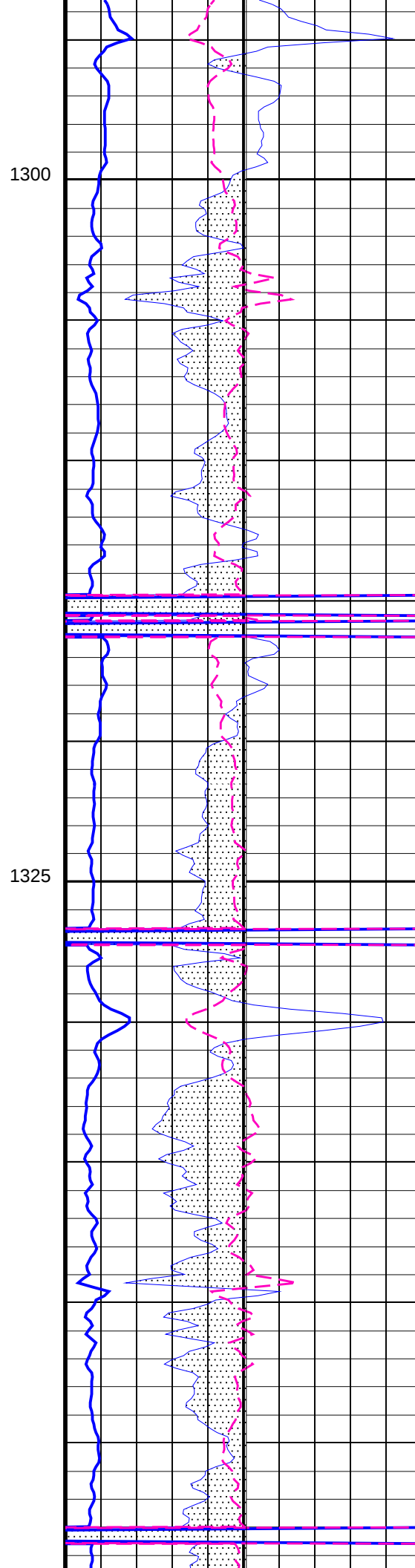
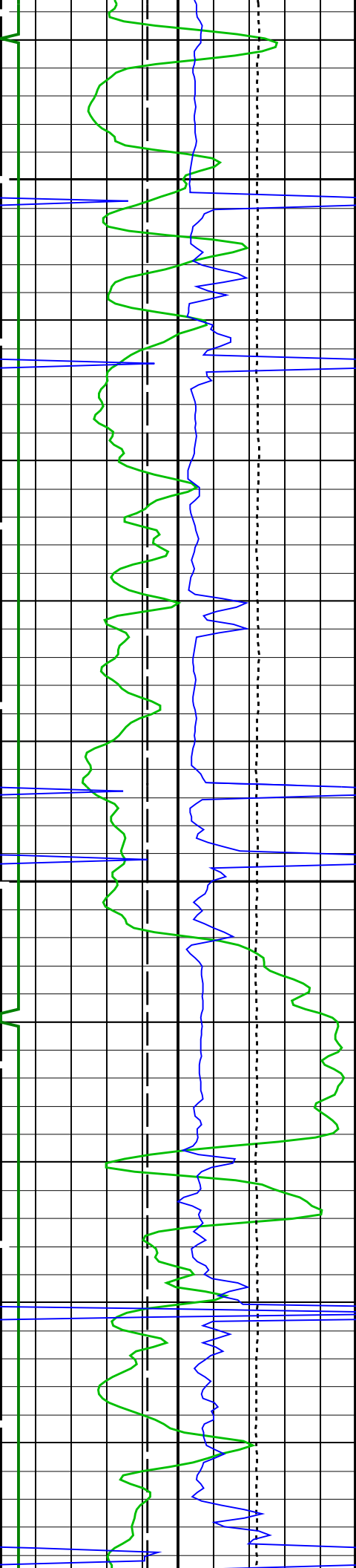


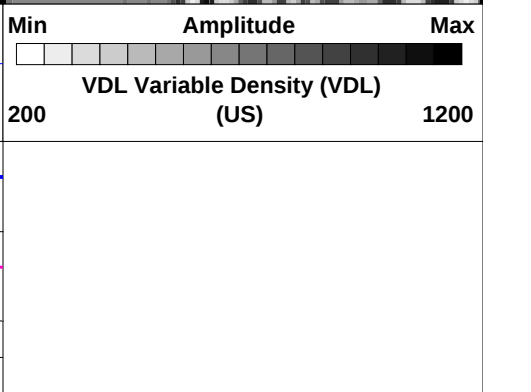
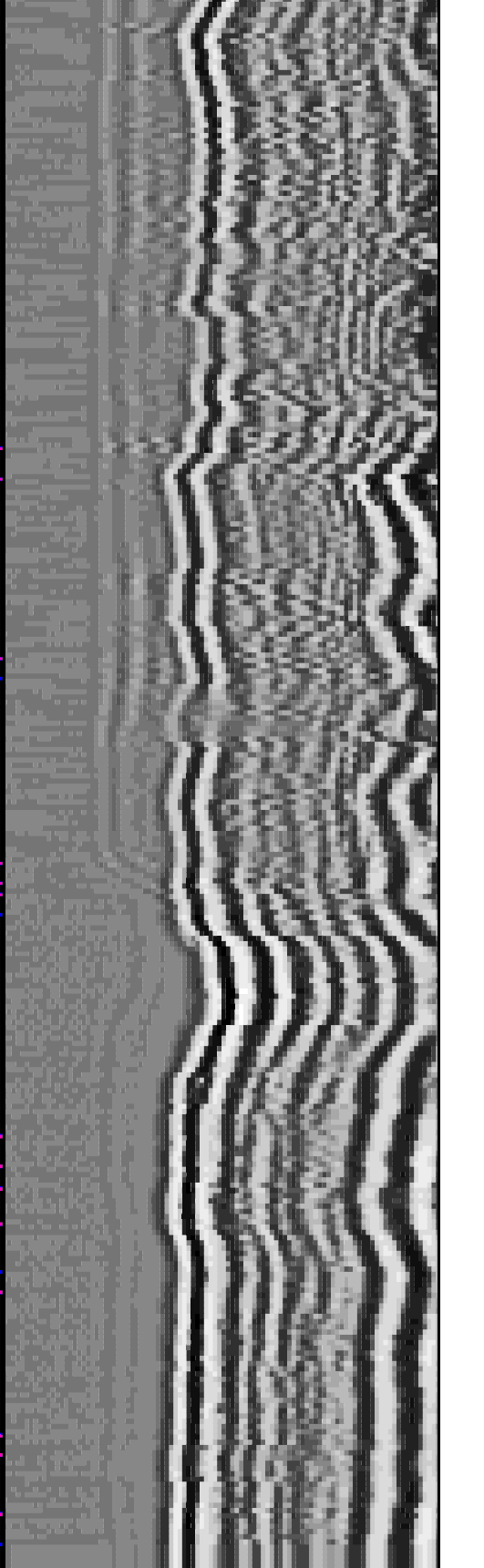
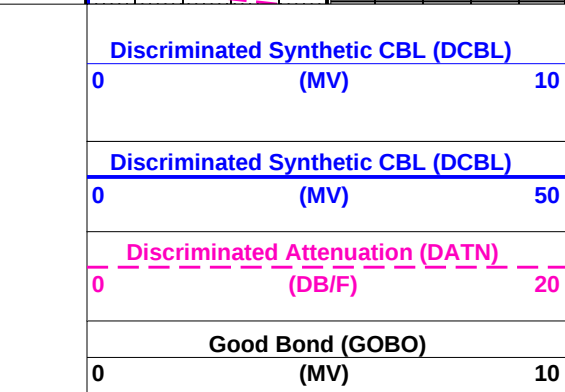
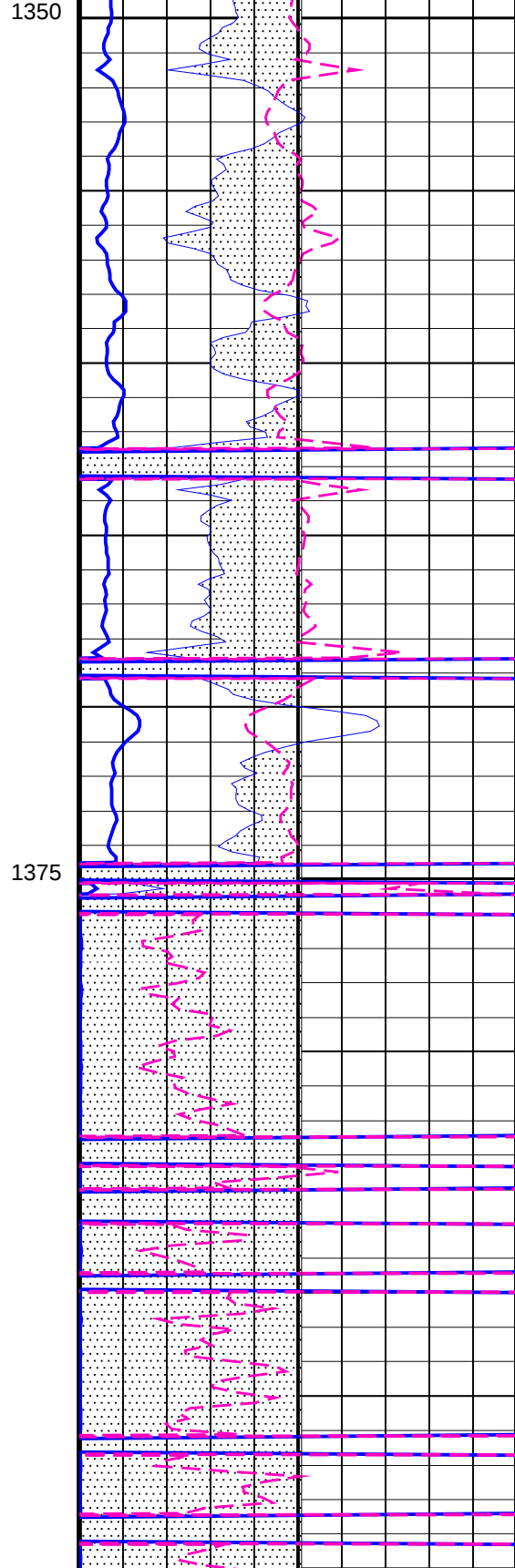
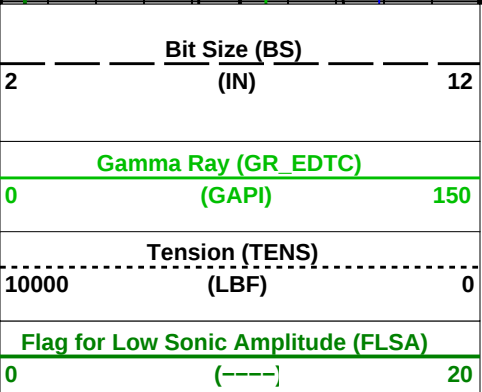
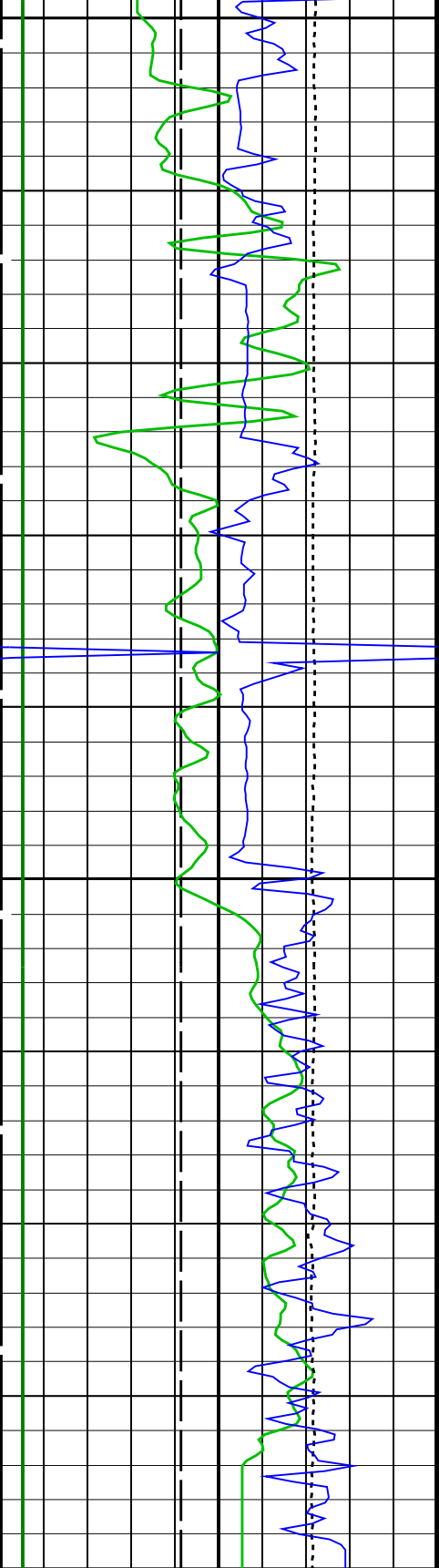


1250

1275







Depth Corrected Transit Time 3FT (CE_TT7_3FT_AVE_DC)		GoodBond	
400	(US)	From ADCBL to GOBO	

PIP SUMMARY			
Time Mark Every 60 S			

Parameters			
DLIS Name	Description	Value	
MAXS-B: Multimode Array Sonic Xmitter Sonde			
U_CE_CBLG7	CBL Gate Width 7 for Cement Evaluation	80	US
U_CE_CBLG8	CBL Gate Width 8 for Cement Evaluation	80	US
U_CE_NMSG7	Near Minimum Sliding Gate 7 for Cement Evaluation	216	US
U_CE_NMSG8	Near Minimum Sliding Gate 8 for Cement Evaluation	216	US
U_CE_SGDT7	Sliding Gate Delta-T 7 for Cement Evaluation	57	US/F
U_CE_SGDT8	Sliding Gate Delta-T 8 for Cement Evaluation	57	US/F
MAPC-B: Multimode Array Sonic Power Cartridge			
BS	Bit Size	6.125	IN
CBRA	CBL LQC Reference Amplitude in Free Pipe	63	MV
CE_DCBLSEL	DCBL Selection for Cement Evaluation	3_5FT	
CE_VDLSEL	VDL Selection for Cement Evaluation	MU_5FT	
CTHI	Casing Thickness	0.411689	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/M
FCF	CBL Fluid Compensation Factor	0.848548	
GOBO	Good Bond	5.06945	MV
MATT	Maximum Attenuation	34.472	DB/M
NFPI_ML	Free Pipe Amplitude for ML	3000	
NFPI_MU	Free Pipe Amplitude for MU	3000	
U_CE_CBLG7	CBL Gate Width 7 for Cement Evaluation	80	US
U_CE_CBLG8	CBL Gate Width 8 for Cement Evaluation	80	US
U_CE_NMSG7	Near Minimum Sliding Gate 7 for Cement Evaluation	216	US
U_CE_NMSG8	Near Minimum Sliding Gate 8 for Cement Evaluation	216	US
U_CE_SGDT7	Sliding Gate Delta-T 7 for Cement Evaluation	57	US/F
U_CE_SGDT8	Sliding Gate Delta-T 8 for Cement Evaluation	57	US/F
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	7.000	IN
DFD	Drilling Fluid Density	9.90	LB/G
DO	Depth Offset for Playback	1.7	M
PP	Playback Processing	RECOMPUTE	

Format: MAST_CE_DCBL	Vertical Scale: 1:200	Graphics File Created: 19-Nov-2009 14:41
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OP System Version: 17C0-154			
FBST-B	17C0-154	PPC1-B	17C0-154
MAXS-B	SKK-3853-MAST	MAPC-B	SKK-3853-MAST
EDTC-B	SKK-3882-EDTCB		

Input DLIS Files					
	FMI_CAL_MAXS_MAPC_027LUP	FN:62	19-Nov-2009 14:00	1412.8 M	791.6 M
Output DLIS Files					
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CUSTOMER	FMI_CAL_MAXS_MAPC_060PUC	FN:70	CUSTOMER	19-Nov-2009 14:41	



CALIBRATIONS

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
Full-Bore Scanner – B Wellsite Calibration – Caliper Calibration							
Before: 6–Nov–2009 20:27							
Caliper 1 Small Jig	8.000	N/A	7.912	N/A	N/A	N/A	IN
Caliper 2 Small Jig	8.000	N/A	7.630	N/A	N/A	N/A	IN
Caliper 1 Large Jig	12.00	N/A	11.67	N/A	N/A	N/A	IN
Caliper 2 Large Jig	12.00	N/A	11.42	N/A	N/A	N/A	IN
Powered Positioning Device/Caliper 1 Master Calibration – PPC1 LVDT5 Master Calibration							
Master: Calibration not done							
LVDT5 Full Close Position	–1.510	N/A	--	--	--	--	IN
LVDT5 Powered 4 Position	1.410	N/A	--	--	--	--	IN
LVDT5 Full Open Position	–1.310	N/A	--	--	--	--	IN
Multimode Array Sonic Power Cartridge Master Calibration – SSCF Sensor Sensitivity Correction Factor							
Master: 16–Oct–2009 9:25							
SSCF Minimum	1.000	0.9234	--	--	--	--	---
SSCF Maximum	1.000	1.124	--	--	--	--	---
Multimode Array Sonic Power Cartridge Master Calibration – SSCR Sensor Sensitivity Correction Factor LF to HF Ratio							
Master: 16–Oct–2009 9:25							
SSCR Minimum	1.000	0.9249	--	--	--	--	---
SSCR Maximum	1.000	1.049	--	--	--	--	---
Multimode Array Sonic Power Cartridge Master Calibration – STDF Sensor Time Delay Factor							
Master: 16–Oct–2009 9:25							
STDF Minimum	0	–0.6627	--	--	--	--	US
STDF Maximum	0	0.7072	--	--	--	--	US

Full-Bore Scanner – B / Equipment Identification		
Primary Equipment:		
FullBore Scanner Sonde	FBSS – B	1812
FullBore Scanner Sonde Upper part	FBSH – A	1803
GPIT Cartridge – F	GPIC – F	832
FullBore Scanner Sonde Cartridge	FBSC – B	1809
Insulating Sub	AH – 185	1918
Flex Joint	AH – 184	
FullBore Scanner Control Cartridge	FBCC – A	1823
Auxiliary Equipment:		
Electronics Cartridge Housing	ECH – MRA	6807

Full-Bore Scanner – B Wellsite Calibration					
Caliper Calibration					
Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		7.912	Before		7.630
	6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)			6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)	
Phase	Caliper 1 Large Jig IN	Value	Phase	Caliper 2 Large Jig IN	Value
Before		11.67	Before		11.42
	10.20 (Minimum) 12.00 (Nominal) 13.80 (Maximum)			10.20 (Minimum) 12.00 (Nominal) 13.80 (Maximum)	
Before: 6–Nov–2009 20:27					

Powered Positioning Device/Caliper 1 / Equipment Identification		
Primary Equipment:		
PPC Powered Positioning Device/Caliper	PPC1 – B	8332
PPC1 Caliper Standard	PPC_ –	8332
Auxiliary Equipment:		

PPC1 LVDT5 Master Calibration

Phase	LVDT5 Full Close Position IN		Value	Phase	LVDT5 Full Open Position IN		Value	Phase	LVDT5 Powered 4 Position IN		Value
Master	NOT DONE		N/A	Master	NOT DONE		N/A	Master	NOT DONE		N/A
	-1.710 (Minimum)	-1.510 (Nominal)	-1.310 (Maximum)		-1.550 (Minimum)	-1.310 (Nominal)	-1.070 (Maximum)		1.200 (Minimum)	1.410 (Nominal)	1.610 (Maximum)

Master: Calibration not done

Multimode Array Sonic Power Cartridge / Equipment Identification

Primary Equipment:

Multimode Array Sonic Minimum Service So

MAMS – BA

8073

Multimode Array Sonic Control Cartridge

MAPC – BA

8071

Auxiliary Equipment:

Electronics Cartridge Housing

ECH – SF

8071

Multimode Array Sonic Power Cartridge Master Calibration

SSCF Sensor Sensitivity Correction Factor

Phase	SSCF Minimum ---		Value	Phase	SSCF Maximum ---		Value
Master			0.9234	Master			1.124
	0.5000 (Minimum)	1.000 (Nominal)	1.700 (Maximum)		0.5000 (Minimum)	1.000 (Nominal)	1.700 (Maximum)

Master: 16-Oct-2009 9:25

Multimode Array Sonic Power Cartridge Master Calibration

SSCR Sensor Sensitivity Correction Factor LF to HF Ratio

Phase	SSCR Minimum ---		Value	Phase	SSCR Maximum ---		Value
Master			0.9249	Master			1.049
	0.9000 (Minimum)	1.000 (Nominal)	1.700 (Maximum)		0.9000 (Minimum)	1.000 (Nominal)	1.700 (Maximum)

Master: 16-Oct-2009 9:25

Multimode Array Sonic Power Cartridge Master Calibration

STDF Sensor Time Delay Factor

Phase	STDF Minimum US		Value	Phase	STDF Maximum US		Value
Master			-0.6627	Master			0.7072
	-2.000 (Minimum)	0 (Nominal)	2.000 (Maximum)		-2.000 (Minimum)	0 (Nominal)	2.000 (Maximum)

Master: 16-Oct-2009 9:25

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector

EDTG – A/B

Enhanced DTS Cartridge

EDTC – B

Auxiliary Equipment:

EDTC Housing

EDTH – B

8665

Company: Lakes Oil N.L.

Well: Wombat-4

Field: Wombat

Schlumberger

Rig: **Hunt #2**
Country: **Australia**

DCBL-VDL Log
Run 2
Scale: 1:200