

Schlumberger

Company: **SANDIA TECHNOLOGIES, LLC**

Well: **NYSTA TANDEM LOT 1**

Field: **WILDCAT**

County: **ROCKLAND** State: **NEW YORK**

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[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	RMF @ MRT		
RM @ MRT		@	@
Maximum Recorded Temperatures			
Circulation Stopped	Time		
Logger On Bottom	Time		
Unit Number	Location		
Recorded By			
Witnessed By			

RIG: UNION RIG 48	
CREW: PAUL REYNOLDS, BRYAN AUSTIN, NAT DORSAY	

RUN 1 SERVICE ORDER #: BMNA-00055 PROGRAM VERSION: 19C0-187 FLUID LEVEL: 0 ft			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT	DESCRIPTION
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	RUN 1	RUN 2
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99	1	1
100	1	1

SURFACE EQUIPMENT

GSR-U 1284
WITM (EDTS)-A

DOWNHOLE EQUIPMENT

LEH-QT
LEH-QT

47.3

MDSB_EDTC
Mud Tempe

44.4

44.4

EDTC-B
EDTH-B 8298
EDTC-B
EDTG-A/B

CTEM

40.9

Gamma Ray
EFTB DIAG
TelStatus
EDTCB Ele

39.0

37 0

HNGS-BA
HNGS-BA 95
HNSH-BA 98

37.9

Upper_1
Lower_2

35.6

34.9

HNGC-AB
HNGH-A 26
HNGC-AB 35

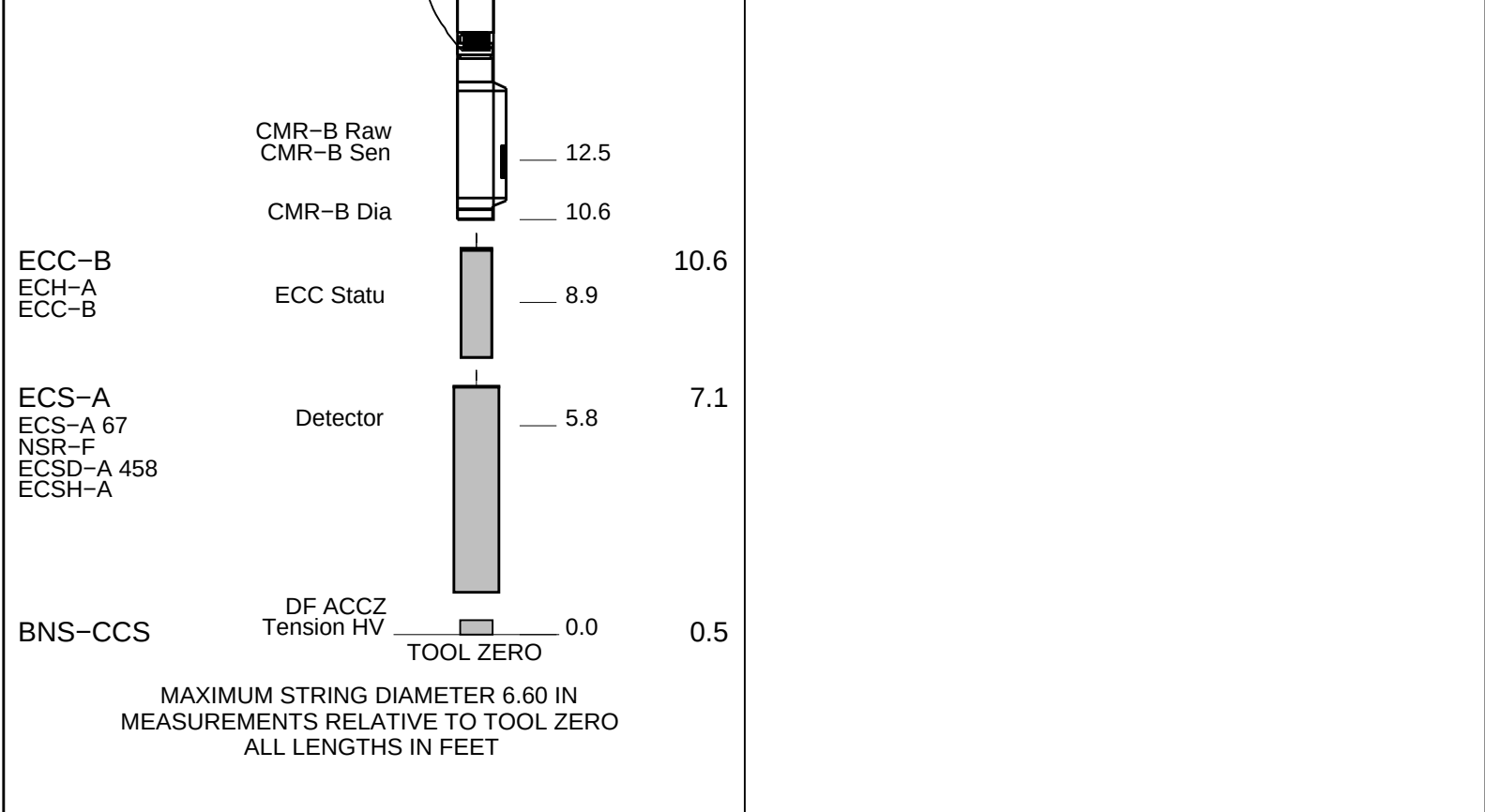
HNGC Stat

27.9

29.7

CMRT-B
CMRH-AA
CMRS-BA 109
CMRC-B 152
EME-F

26.2



Company: SANDIA TECHNOLOGIES, LLC Well: NYSTA TANDEM LOT 1

Input DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_020LUP	FN:32	PRODUCER	16-Oct-2011 01:04	1574.0 FT	60.0 FT
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Output DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_023PUP	FN:38	PRODUCER	16-Oct-2011 02:05	1587.0 FT	73.0 FT
BACKUP	FMI_MAXS_MAPC_CAL_023PUP	FN:39	PRODUCER	16-Oct-2011 02:08	1587.0 FT	73.0 FT

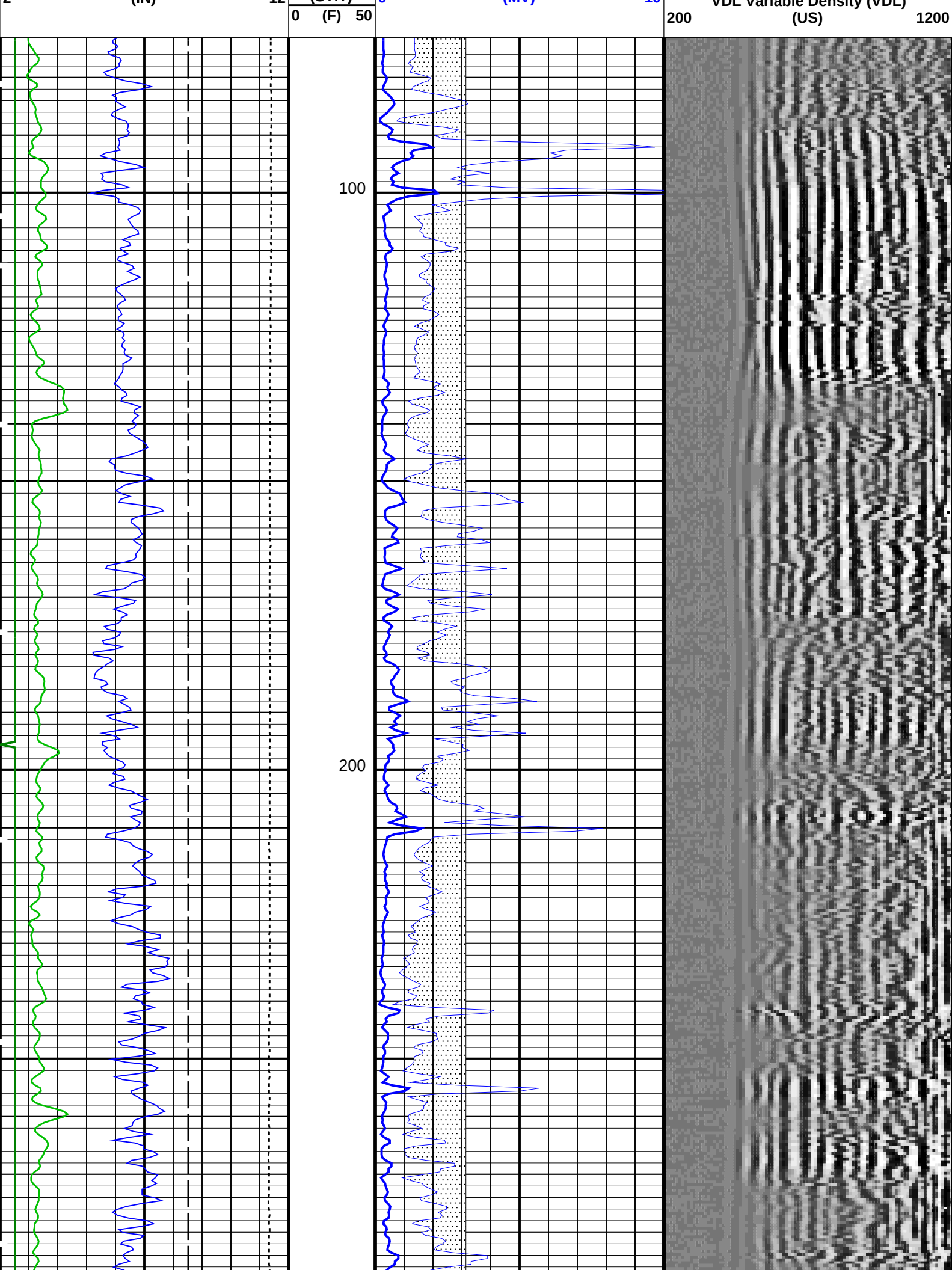
OP System Version: 19C0-187

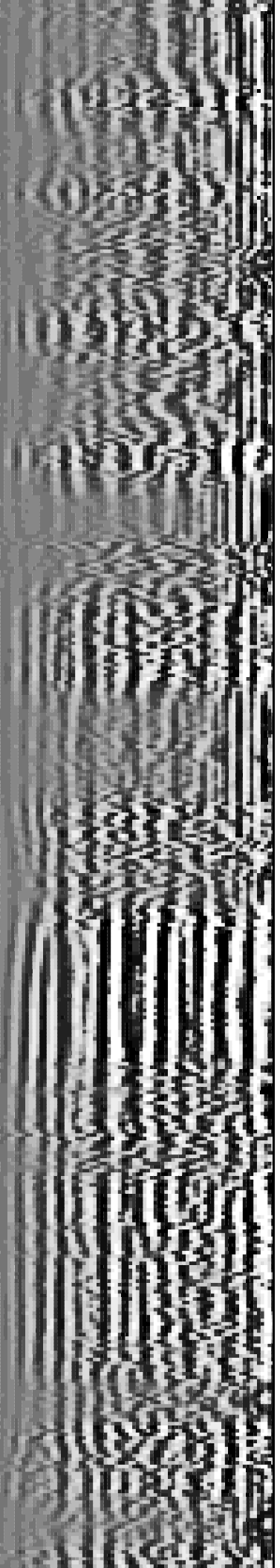
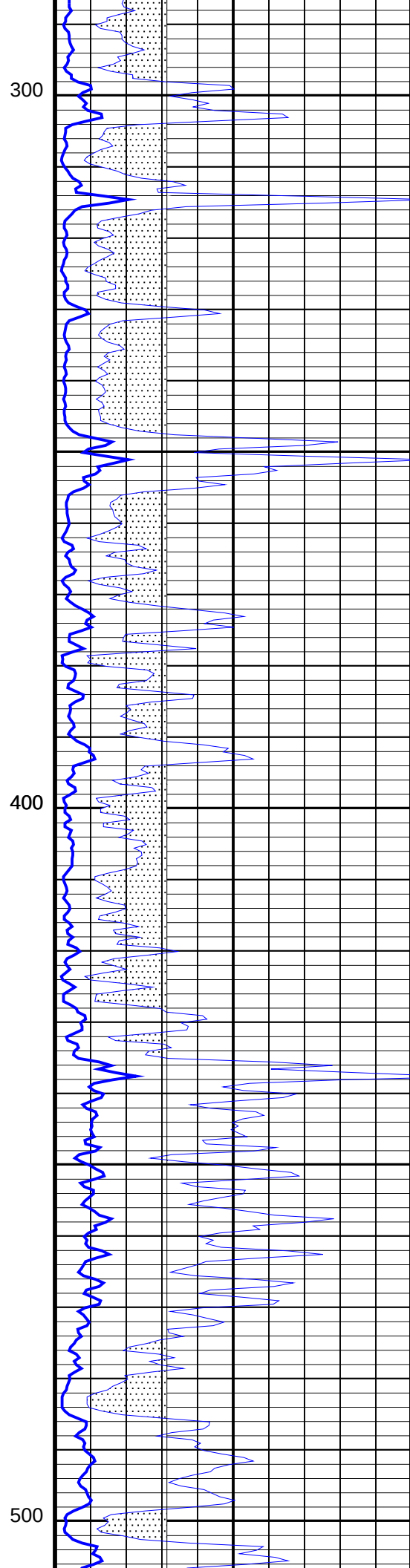
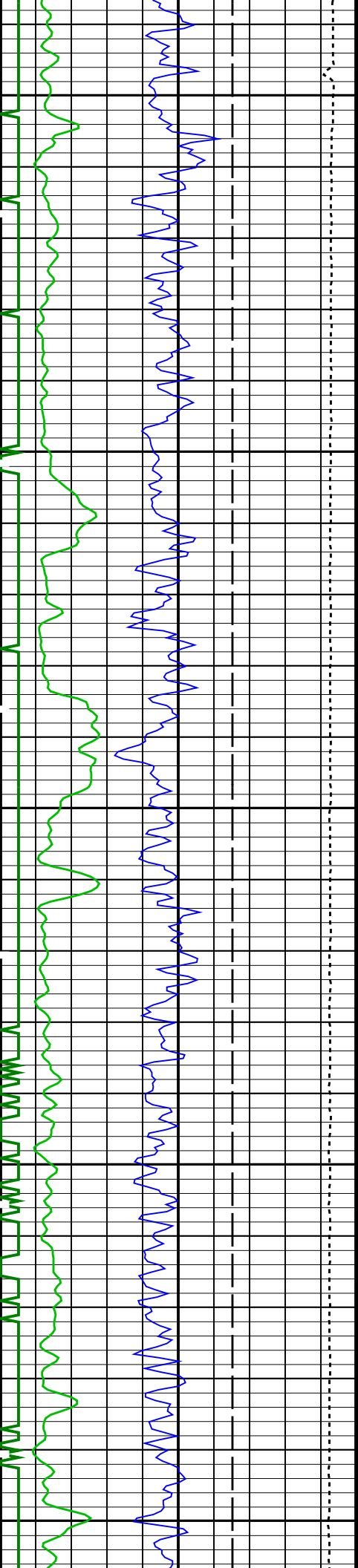
FBST-B	19C0-187	MAXS-B	19C0-187
MAPC-B	19C0-187	PPC1	19C0-187
EDTC-B	19C0-187		

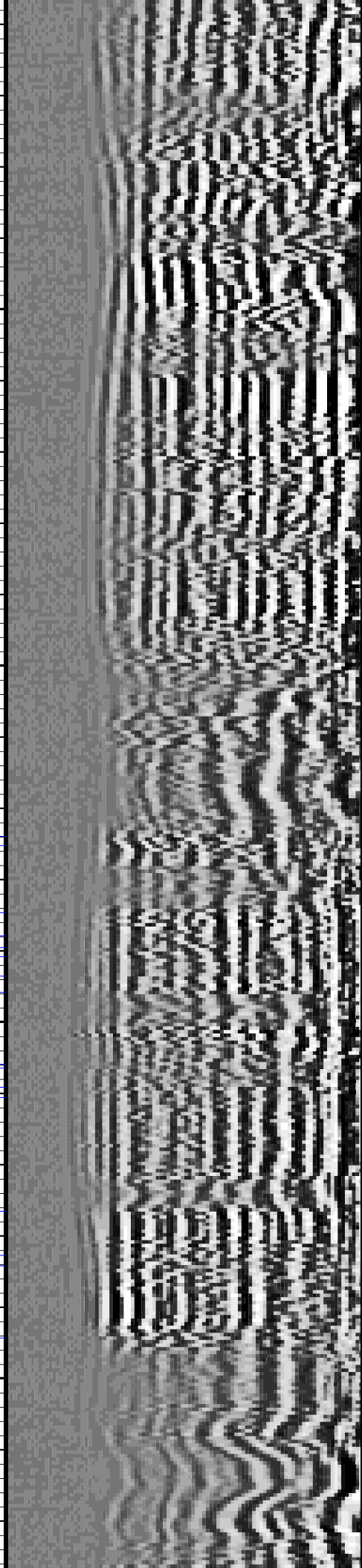
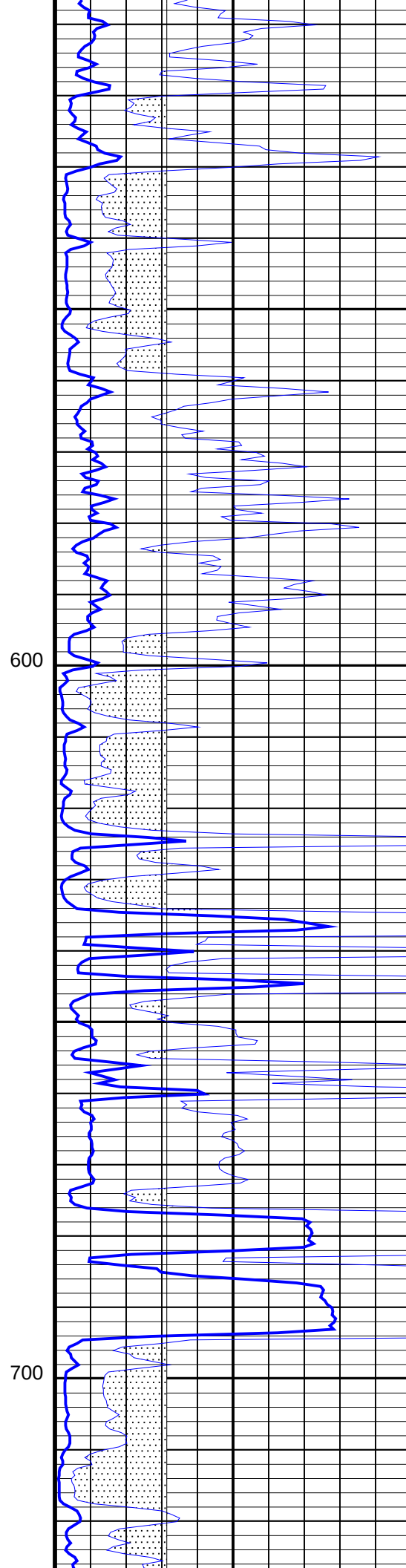
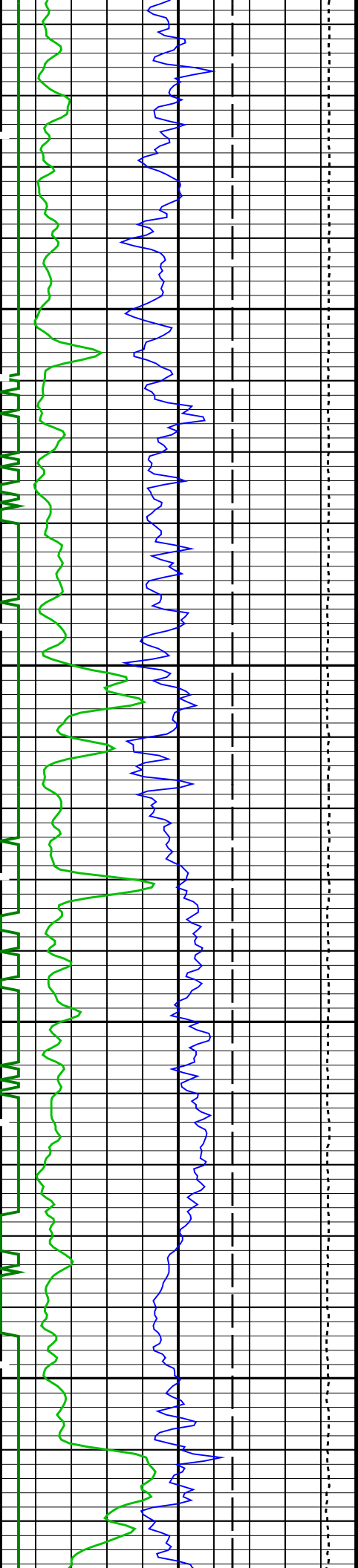
PIP SUMMARY

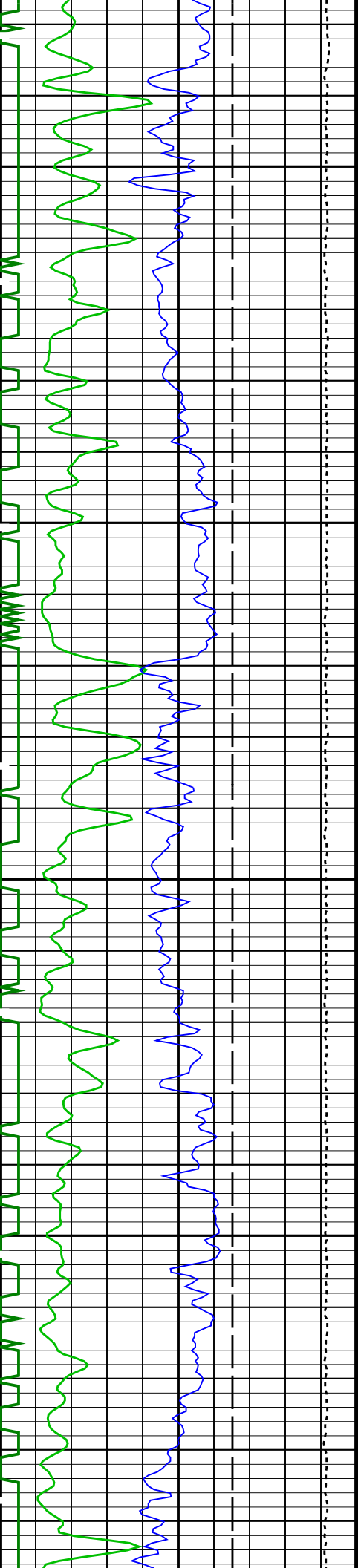
Time Mark Every 60 S

Depth Corrected Transit Time 3FT (CE_TT7_3FT_AVE_DC)			GoodBond From ADCBL to GOBO	
400	(US)	200		
Flag for Low Sonic Amplitude (FLSA)				
0	(----	20		
Tension (TENS)		Tool/Tot. Drag From D3T to STIA	Good Bond (GOBO)	
10000	(LBF)			0
Gamma Ray (GR_EDTC)		Cable Drag From STIA to STIT	Discriminated Synthetic CBL (DCBL)	
0	(GAPI)			0
Bit Size (BS)		Stuck Stretch (STIT)	Discriminated Synthetic CBL (DCBL)	MinAmplitudeMax VPL Variable Density (VPL)
2	(IN)			



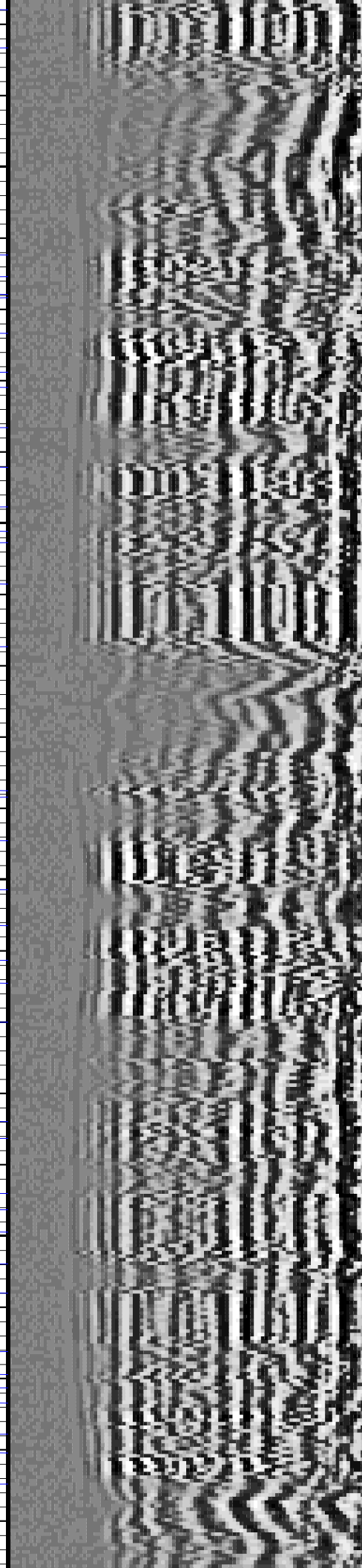
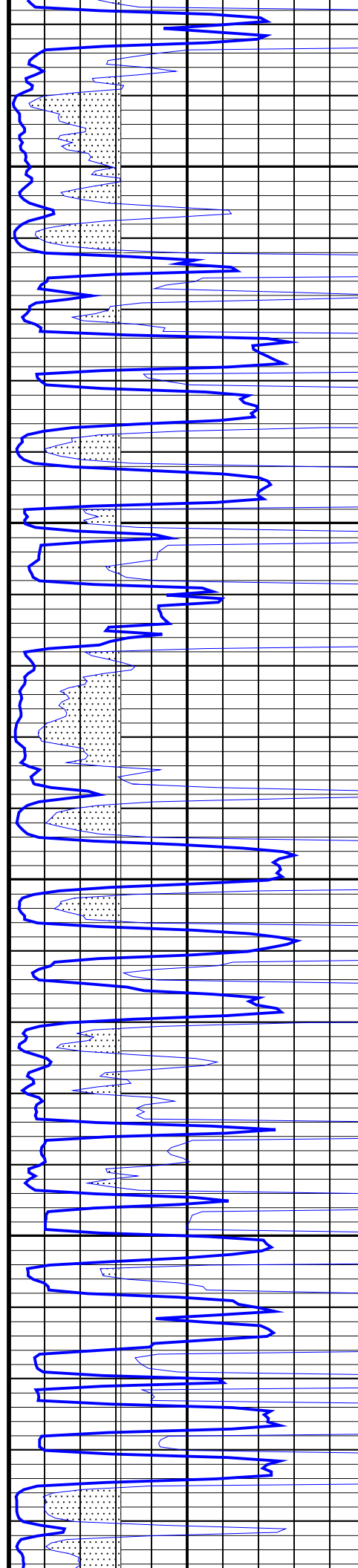


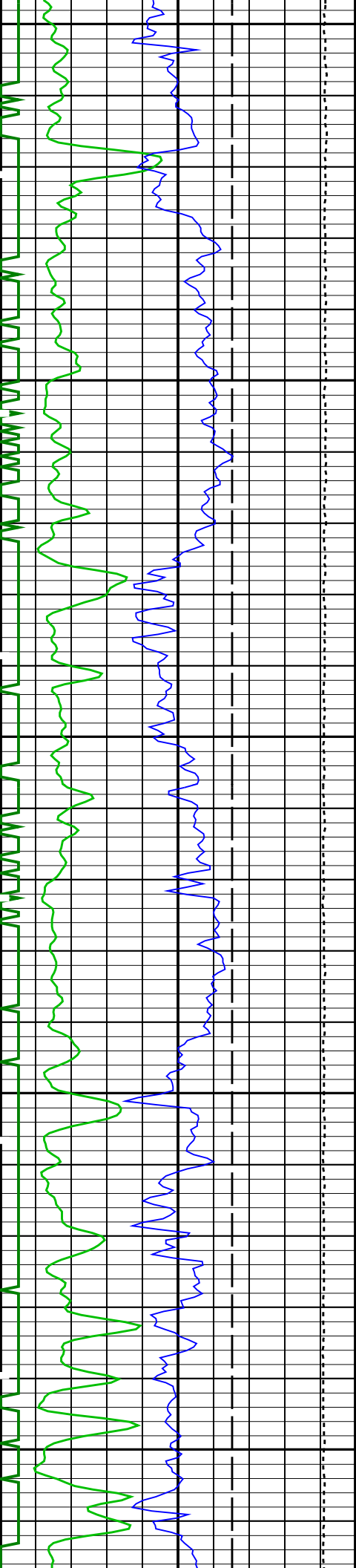




800

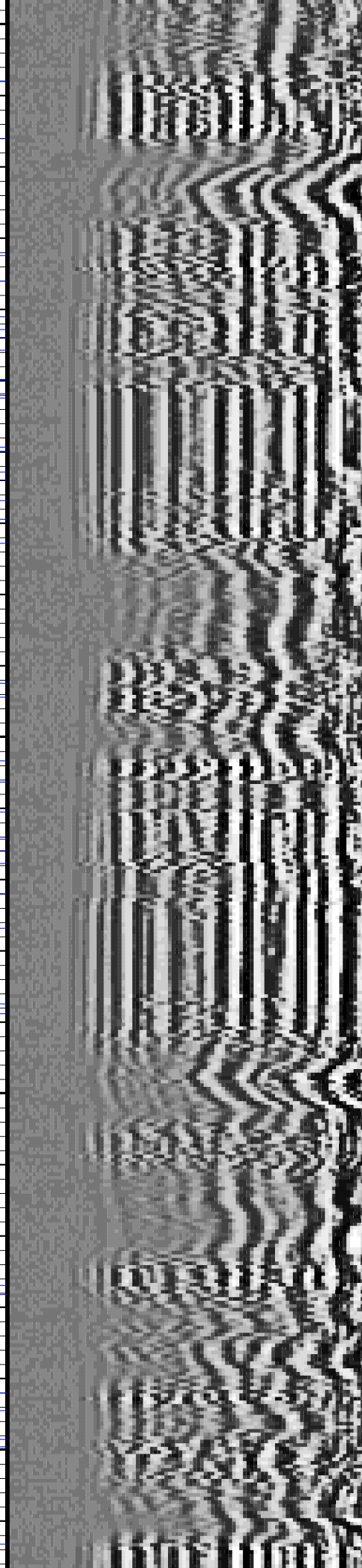
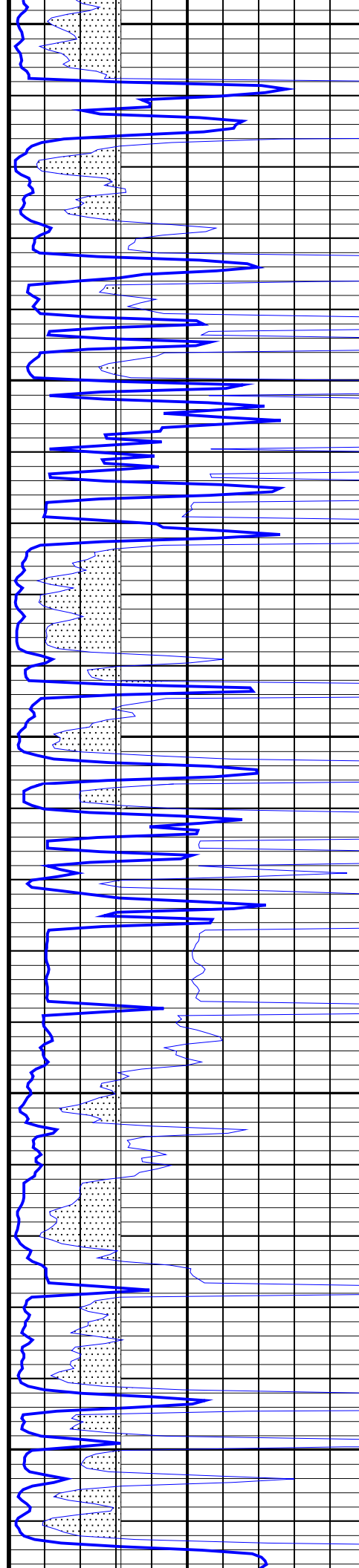
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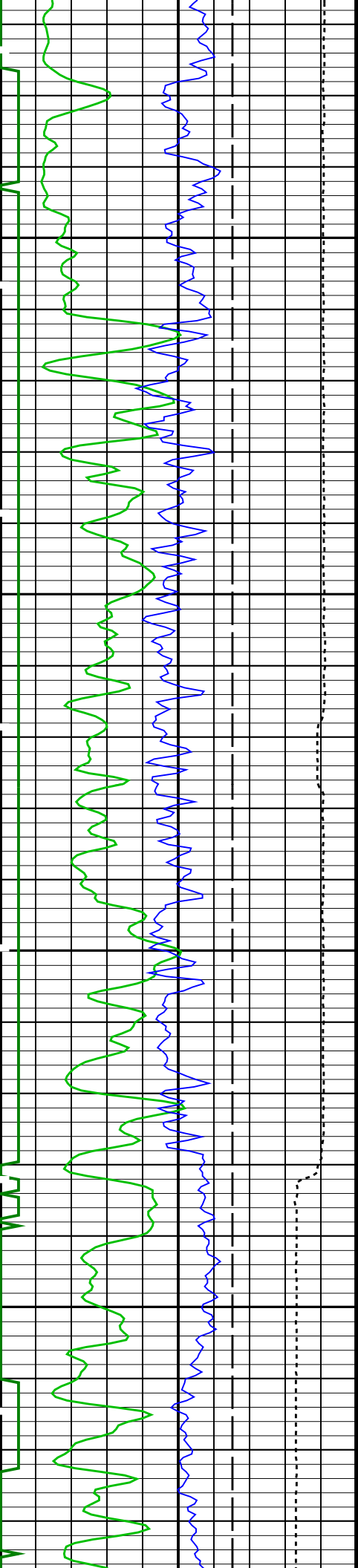




1000

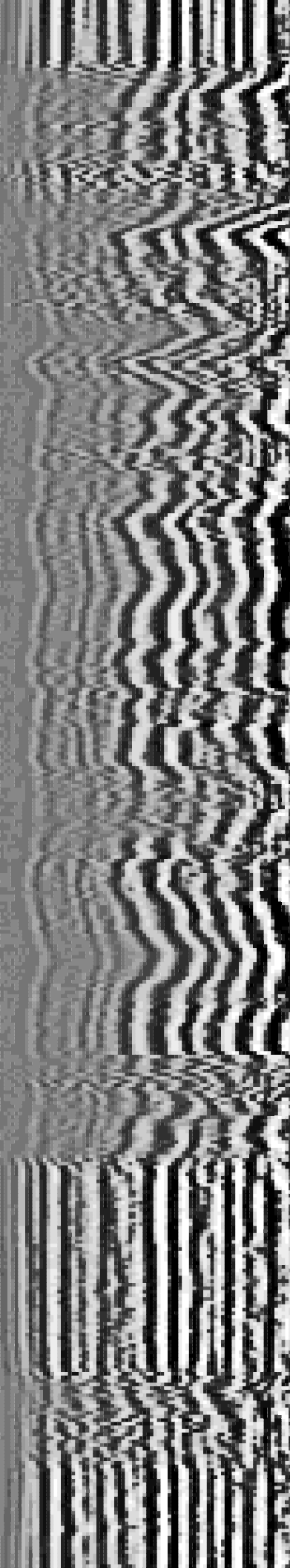
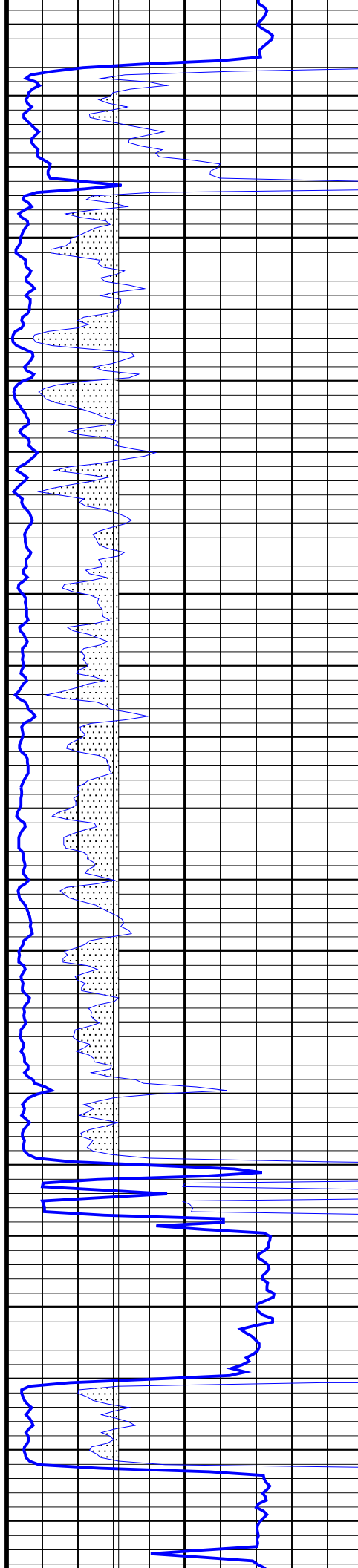
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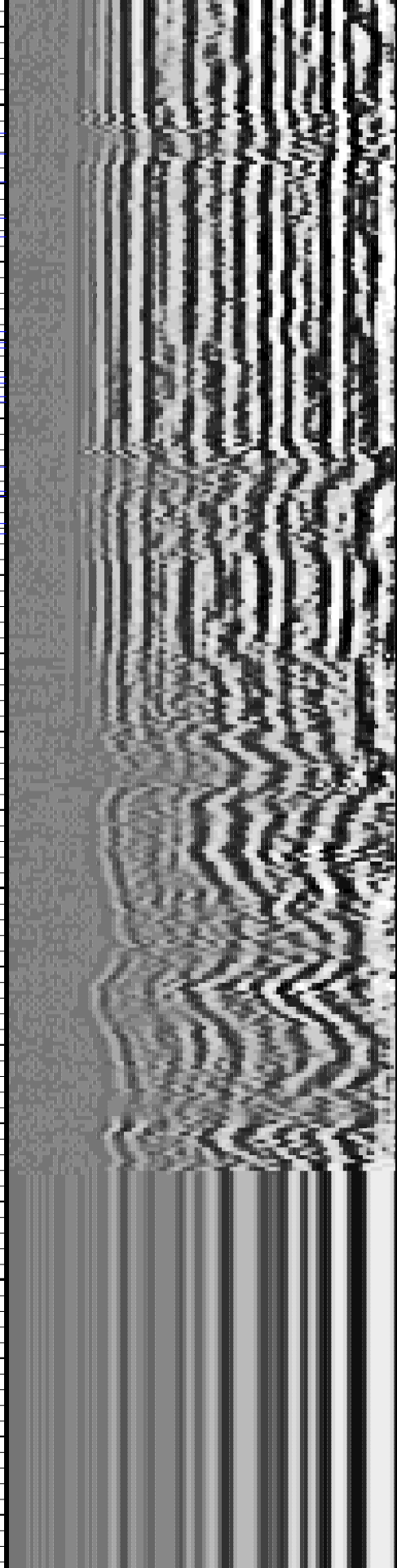
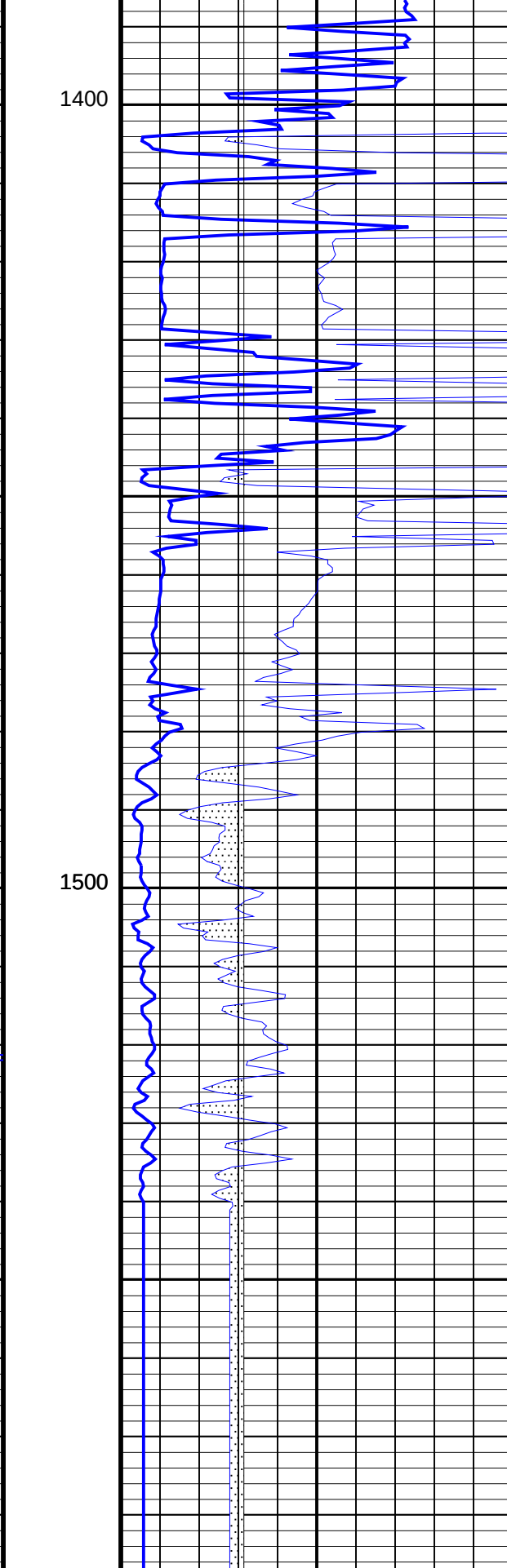
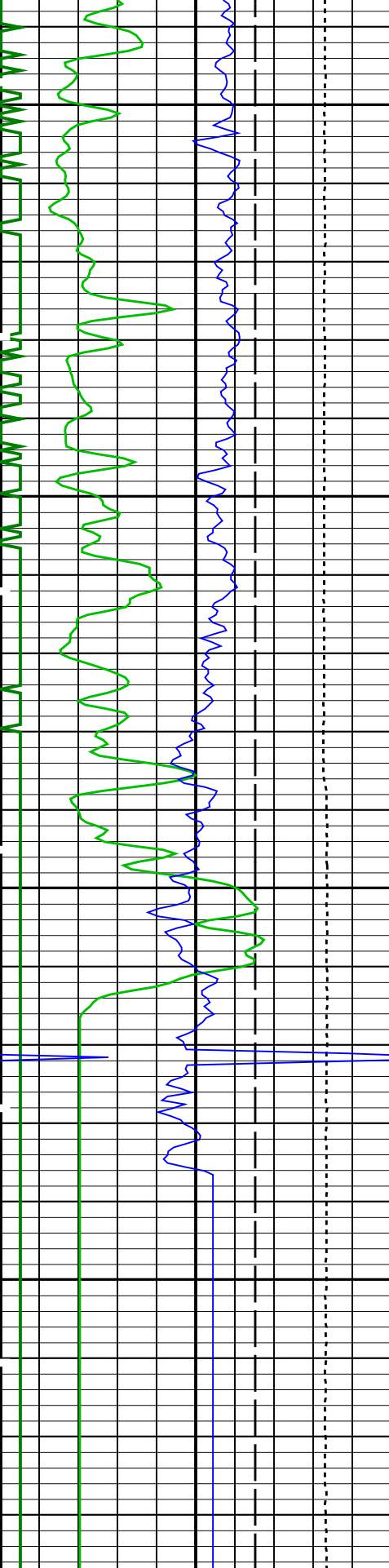




1200

1300





Bit Size (BS)
(IN)

2 12

Stuck Stretch (STIT)
(F)

0 50

Discriminated Synthetic CBL (DCBL)
(MV)

0 10

Min Amplitude Max

200 VDL Variable Density (VDL) 1200

(US)

Cable

0	Gamma Ray (GR_EDTC)	150	Drag From STIA to STIT	0	Discriminated Synthetic CBL (DCBL)	50
10000	Tension (TENS) (LBF)	0	Tool/Tot. Drag From D3T to STIA	0	Good Bond (GOBO) (MV)	10
0	Flag for Low Sonic Amplitude (FLSA) (----)	20			GoodBond From ADCBL to GOBO	
400	Depth Corrected Transit Time 3FT (CE_TT7_3FT_AVE_DC) (US)	200				

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	252 US
U_CE_NMSG8	Near Minimum Sliding Gate 8 for Cement Evaluation	252 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	8.500 IN
CBRA	CBL LQC Reference Amplitude in Free Pipe	52 MV
CE_DCBLSEL	DCBL Selection for Cement Evaluation	3_5FT
CE_VDLSEL	VDL Selection for Cement Evaluation	MU_5FT
CTHI	Casing Thickness	0.363554 IN
DTF	Delta-T Fluid	189 US/F
FATT	Acoustic Attenuation due to Fluid	0 DB/F
FCF	CBL Fluid Compensation Factor	0.825949
GOBO	Good Bond	3.11214 MV
MATT	Maximum Attenuation	11.7722 DB/F
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	252 US
U_CE_NMSG8	Near Minimum Sliding Gate 8 for Cement Evaluation	252 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
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0 FT
TIMD	Along-hole depth of Tie-in Point	1500 FT
TIVD	TVD of Tie-in Point	1499.87 FT
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI
STKT	STI Stuck Threshold	2.5 FT
TDD	Total Depth - Driller	6885.00 FT
TDL	Total Depth - Logger	6870.00 FT
System and Miscellaneous		
CSIZ	Current Casing Size	9.625 IN
DFD	Drilling Fluid Density	9.40 LB/G
DO	Depth Offset for Playback	13.0 FT
PP	Playback Processing	OFF

Format: MAST_CE_DCBL Vertical Scale: 5" per 100'

Graphics File Created: 16-Oct-2011 02:05

OP System Version: 19C0-187

FBST-B	19C0-187	MAXS-B	19C0-187
MAPC-B	19C0-187	PPC1	19C0-187
EDTC-B	19C0-187		

Input DLIS Files

DEFAULT FMI_MAXS_MAPC_CAL_020LUP FN:32 PRODUCER 16-Oct-2011 01:04 1574.0 FT 60.0 FT

Output DLIS Files

DEFAULT	FMI_MAXS_MAPC_CAL_023PUP	FN:38	PRODUCER	16-Oct-2011 02:05
BACKUP	FMI_MAXS_MAPC_CAL_023PUP	FN:39	PRODUCER	16-Oct-2011 02:08



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: 14-Oct-2011 12:16							
Caliper 1 Small Jig	8.000	N/A	7.851	N/A	N/A	N/A	IN
Caliper 2 Small Jig	8.000	N/A	7.830	N/A	N/A	N/A	IN
Caliper 1 Large Jig	12.00	N/A	11.58	N/A	N/A	N/A	IN
Caliper 2 Large Jig	12.00	N/A	11.59	N/A	N/A	N/A	IN
Powered Positioning Device/Caliper 1 Wellsite Calibration – PPC1 Caliper Calibration							
Before: 14-Oct-2011 17:22							
PPC1 Radius 1 Raw Small Radius	3.500	N/A	4.562	N/A	N/A	0.5000	IN
PPC1 Radius 1 Raw Large Radius	8.000	N/A	8.936	N/A	N/A	0.5000	IN
PPC1 Radius 2 Raw Small Radius	3.500	N/A	3.455	N/A	N/A	0.5000	IN
PPC1 Radius 2 Raw Large Radius	8.000	N/A	8.077	N/A	N/A	0.5000	IN
PPC1 Radius 3 Raw Small Radius	3.500	N/A	4.431	N/A	N/A	0.5000	IN
PPC1 Radius 3 Raw Large Radius	8.000	N/A	8.803	N/A	N/A	0.5000	IN
PPC1 Radius 4 Raw Small Radius	3.500	N/A	3.475	N/A	N/A	0.5000	IN
PPC1 Radius 4 Raw Large Radius	8.000	N/A	7.903	N/A	N/A	0.5000	IN
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 15-Oct-2011 18:41							
EDTC Z-Axis Acceleration	32.19	N/A	31.96	N/A	N/A	N/A	F/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: 14-Oct-2011 12:27							
Gamma Ray (Jig – Bkg)	145.5	N/A	145.5	N/A	N/A	13.22	GAPI
Gamma Ray (Calibrated)	160.0	N/A	160.0	N/A	N/A	15.00	GAPI

Full-Bore Scanner – B / Equipment Identification

Primary Equipment:

FullBore Scanner Sonde	FBSS – B	
FullBore Scanner Sonde Upper part	FBSh – A	
FullBore Scanner Sonde Cartridge	FBSC – B	772
GPIT Cartridge – F	GPIC – F	847
Insulating Sub	AH – 185	1864
FullBore Scanner Control Cartridge	FBCC – A	1797

Auxiliary Equipment:

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

Caliper Calibration

Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		7.851	Before		7.830
	6.800 8.000 9.200			6.800 8.000 9.200	

Powered Positioning Device/Caliper 1 / Equipment Identification		
Primary Equipment:		
PPC Powered Positioning Device/Caliper	PPC1 – B	8334
PPC1 Caliper Standard	PPC_ –	
Auxiliary Equipment:		

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	8298

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				51.68	Before				145.5	Before				160.0
	0 (Minimum)	30.00 (Nominal)		120.0 (Maximum)		132.2 (Minimum)	145.5 (Nominal)		158.7 (Maximum)		145.0 (Minimum)	160.0 (Nominal)		175.0 (Maximum)
Before: 14-Oct-2011 12:27														

Company: SANDIA TECHNOLOGIES, LLC



Well: NYSTA TANDEM LOT 1

Field: WILDCAT

County: ROCKLAND

State: NEW YORK

Sonic Scanner Cement Bond Log
Gamma Ray