

Company: GENESIS GAS & OIL, LLC

Well: FLETCHER GULCH 3-21

Field: WILDCAT

County: RIO BLANCO State: COLORADO

CEMENT BOND LOG
GAMMA RAY
COLLARS/TEMPERATURE/PRESSURE

County: RIO BLANCO
Field: WILDCAT
Location: 1995' FNL & 1015' FWL
Well: FLETCHER GULCH 3-21
Company: GENESIS GAS & OIL, LLC

LOCATION		GROUND LEVEL	
1995 FNL & 1015' FWL		Elev.: K.B. 6626.3 ft G.L. 6515.3 ft D.F. 6525.3 ft	
Permanent Datum:	GROUND LEVEL	Elev.: 6515.03 ft	
Log Measured From:	KELLY BUSHING	11.3 ft above Perm. Datum	
Drilling Measured From:	KELLY BUSHING		
API Serial No.	Section	Township	Range
0510310694 00	5	1N	100W

Logging Date	0-6 Sep-2000		
Run Number	1		
Depth Driller	2555 ft		
Schlumberger Depth	2511 ft		
Bottom Log Interval	2502.4 ft		
Top Log Interval	100 ft		
Casing Fluid Type	WATER		
Salinity			
Density Fluid Level	8.34 lbm/gal 0 ft		
BIT/CASING/TUBING STRING			
Bit Size From	7.875 in 0 ft		
To	2555 ft		
Casing/Tubing Size	6.500 in		
Weight Grade	17 lbm/ft		
From	0 ft		
To	2502.4 ft		
Maximum Recorded Temperatures	89 degF		
Logger On Bottom	8 Sep 2008	9:59	
Unit Number	403	VERNAL	
Recorded By	SCOTTRACH		
Witnessed By	ED MARTIN		

PVT DATA			Run 1	Run 2
Oil Density				
Water Salinity				
Gas Gravity				
B _o				
B _w				
I.B.G.				
Bubble Point Pressure				
Bubble Point Temperature				
Solution GOR				
Maximum Deviation				
CEMENTING DATA			Primary	
Primary/Squeeze				
Casing String No				
Lead Cement Type				
Volume				
Density				
Water Loss				
Additives				
Tail Cement Type				
Volume				
Density				
Water Loss				
Additives				
Expected Cement Top				
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Fluid Type				
Salinity				
Density Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size From				
To				
Casing/Tubing Size				
Weight Grade				
From				
To				
Maximum Recorded Temperatures				
Logger On Bottom				
Unit Number				
Recorded By				
Witnessed By				

TOTLA DEPTH 2511 FT	
EST TOP OF CEMNT 100 FT	
SHORT JOINT-2006 FT-2024 FT	
MAX PRESSURE-1081 PSI	
MAX TEMPERATURE-89 DEGF	
CREW: M. WOOD, A. DUNCAN, M. NUTTALL	
THANK YOU FOR CHOOSING SCHLUMBERGER	
<div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>ARZA 00037</div> <div>1500-309</div> <div>0 ft</div> </div>	<div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div>
<div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div>	<div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div>
EQUIPMENT DESCRIPTION	
RUN 1	RUN 2
<div>SURFACE EQUIPMENT</div> <div>WITM-A</div> <div>PSC 16MHZ</div>	
<div>DOWNHOLE EQUIPMENT</div> <div> <div> <div>MH-22</div> <div>MH-22</div> <div>30.3</div> </div> <div> <div> <div>AH-38</div> <div> <div>Detail MT</div> <div>TelStatus</div> <div>CTEM</div> </div> <div>28.8</div> </div> <div> <div> <div>PSPT-A/B</div> <div>PSC-A</div> <div>PSPT-B 928</div> <div>PSTC</div> <div>PBMS-B</div> <div>CQG F Mano</div> <div>RTD Thermometer</div> <div>GR</div> <div>CCL</div> <div>PBMS</div> </div> <div> <div>GR</div> <div>28.5</div> <div>24.8</div> </div> <div> <div> <div>Well Temp</div> <div>CQG Manom</div> <div>CCL</div> </div> <div> <div>21.7</div> <div>21.4</div> <div>21.0</div> </div> </div> <div> <div>PBMS PSTC</div> <div>20.2</div> </div> <div> <div> <div>SCMT-CA</div> <div>SCMC-CA 8110</div> <div>SECH-CA</div> <div>SCME-K</div> <div>SCMS-CA 8141</div> <div>SCMX-CA</div> </div> <div>20.2</div> </div> </div> </div> </div>	

DEFAULT

SCMT_PSP_008LUP

FN:5

PRODUCER

08-Sep-2008 10:22

2521.0 FT

86.0 FT

OP System Version: 15C0-309

MCM

SCMT-CA

SRPC-3582-Q1_2008_OP15

PSPT-A/B

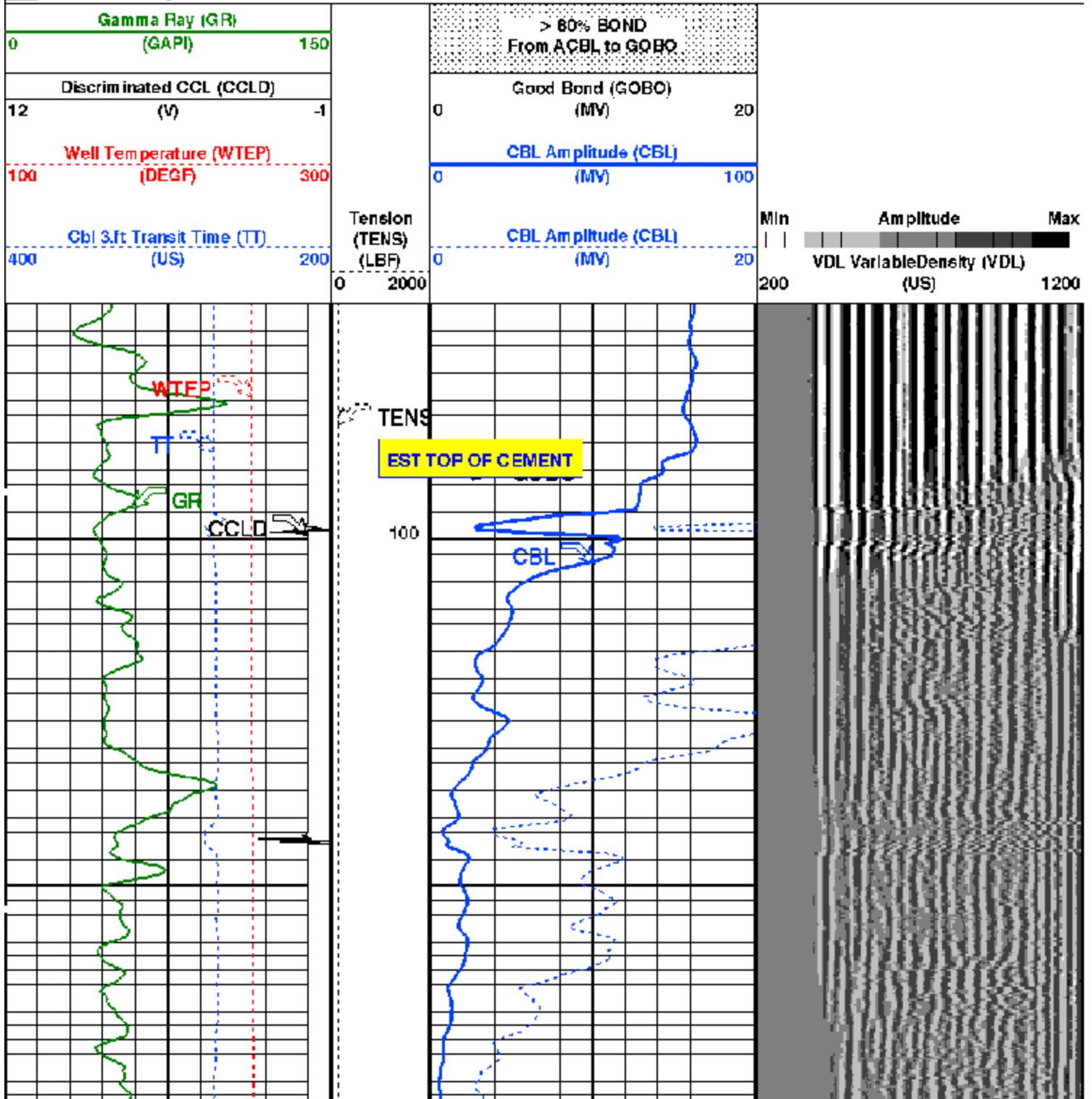
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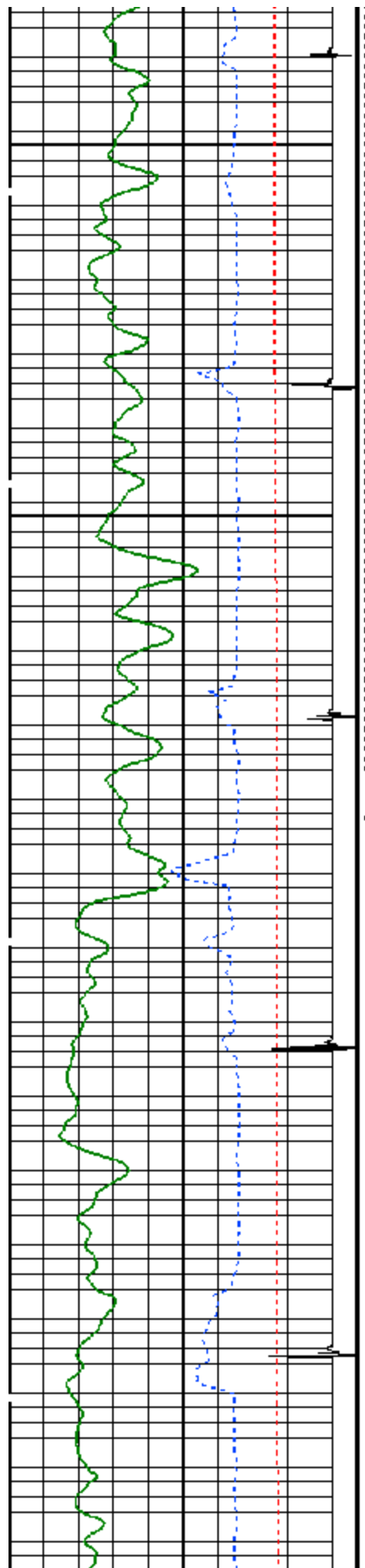
Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
TDD	2555.00 FT	2555.00 FT	2456.3 10:23:51
TDL	2511.00 FT	-50000.00 FT	2466.4 10:23:41

PIP SUMMARY

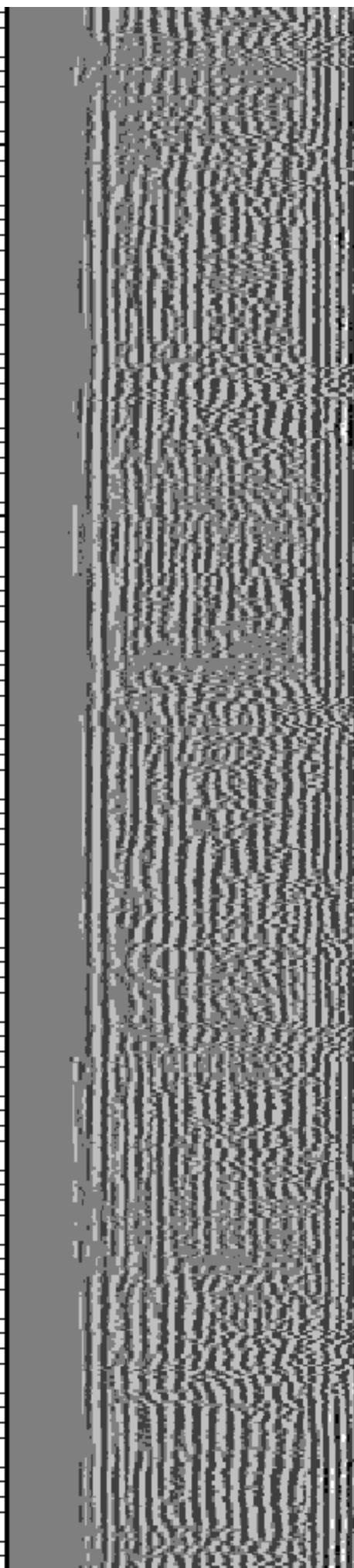
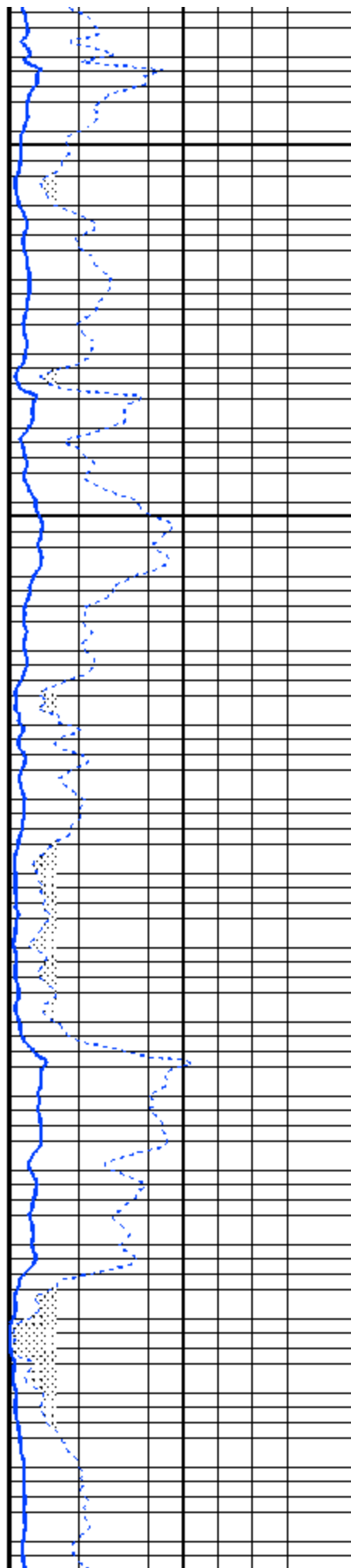
Time Mark Every 60 S

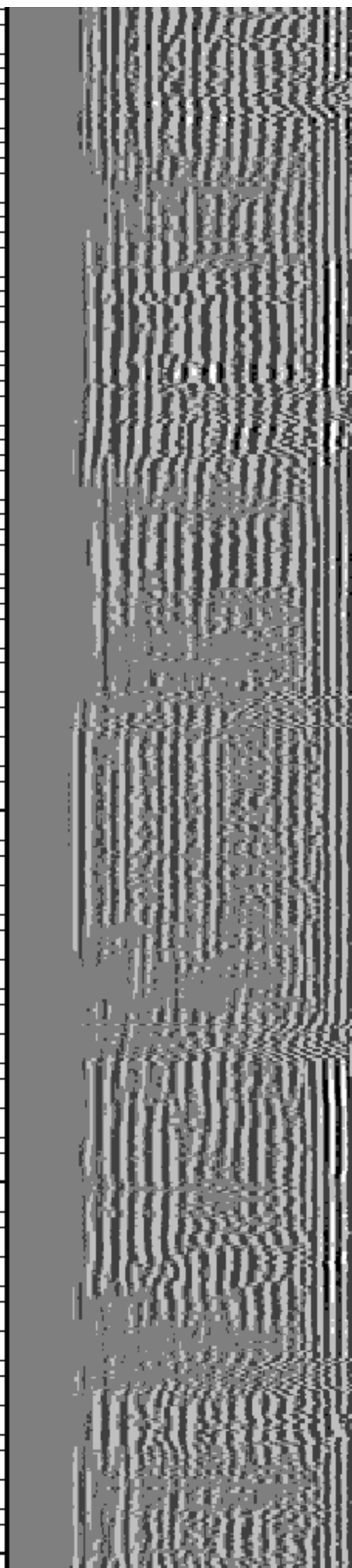
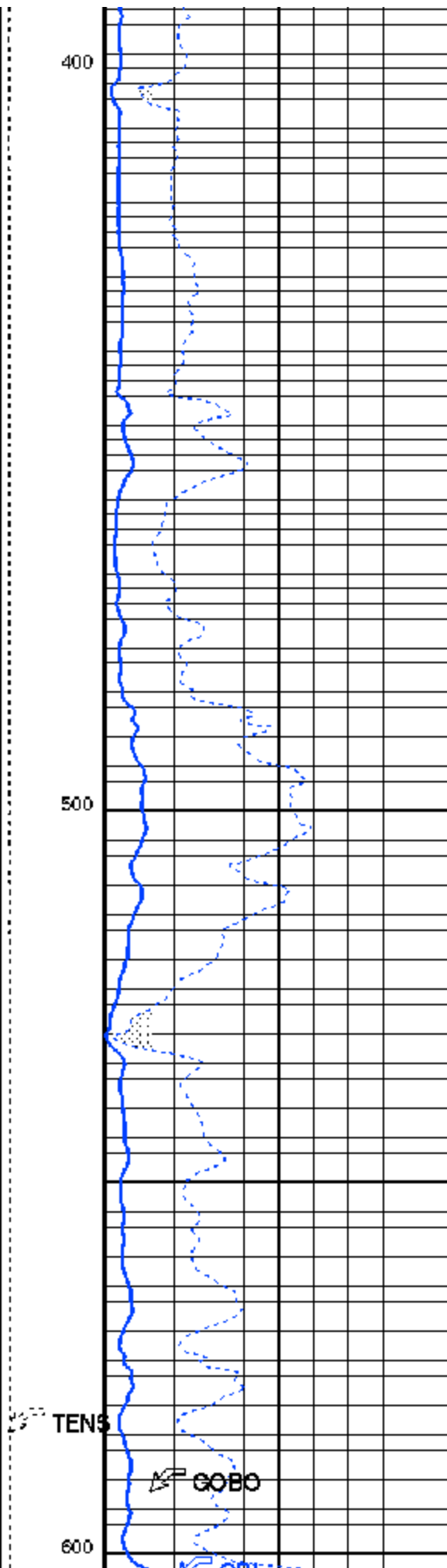
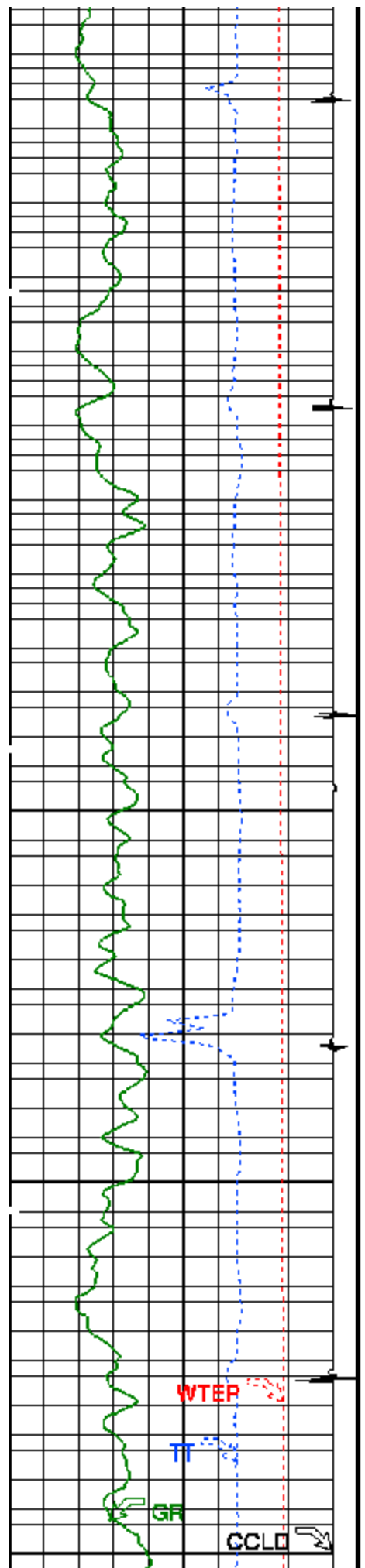


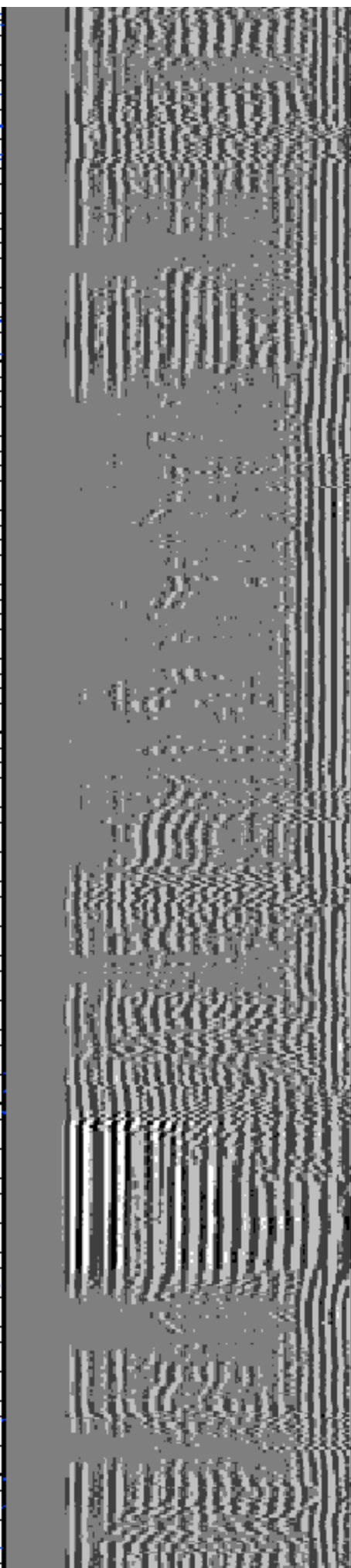
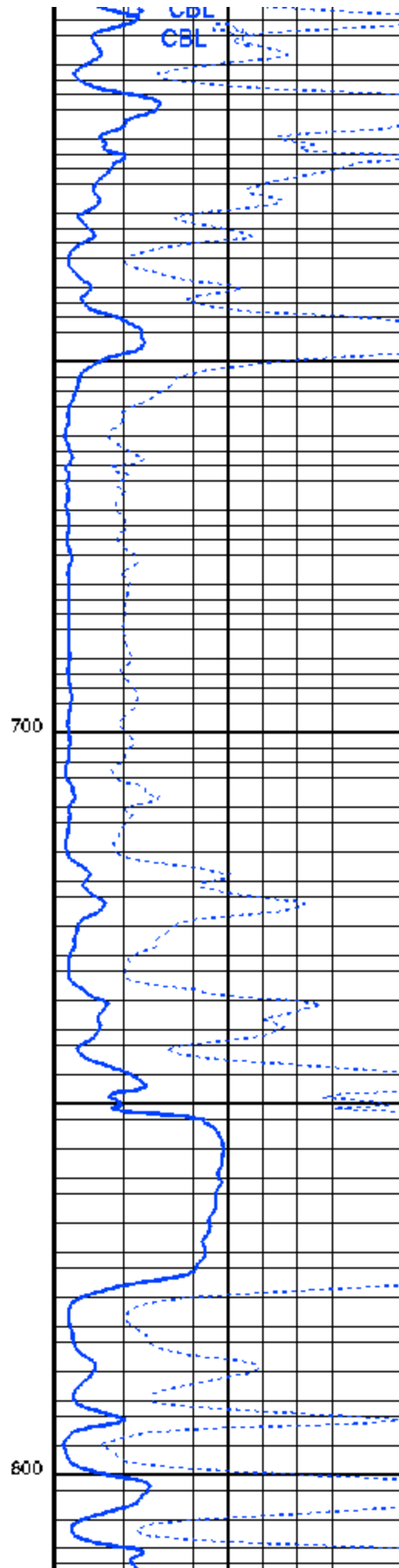
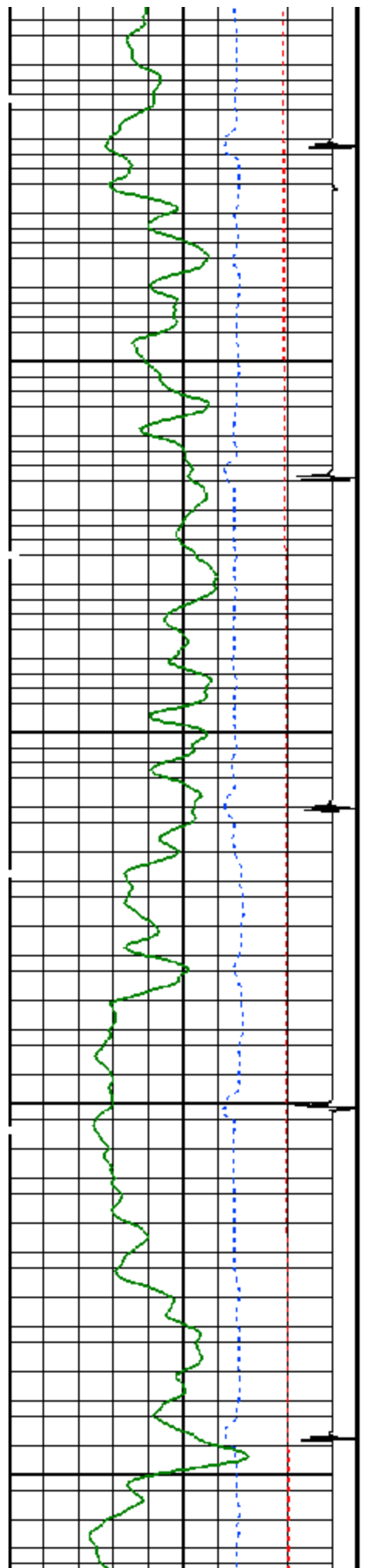


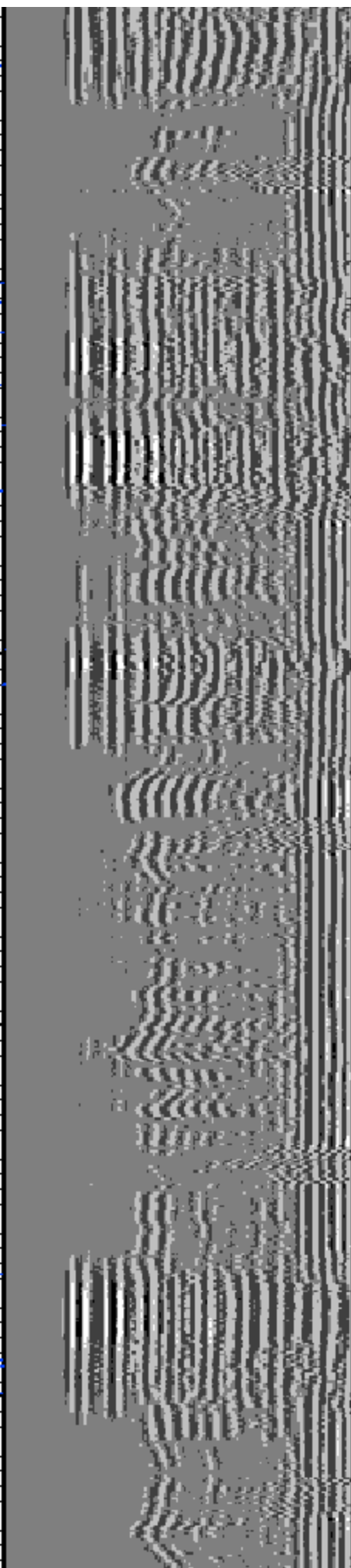
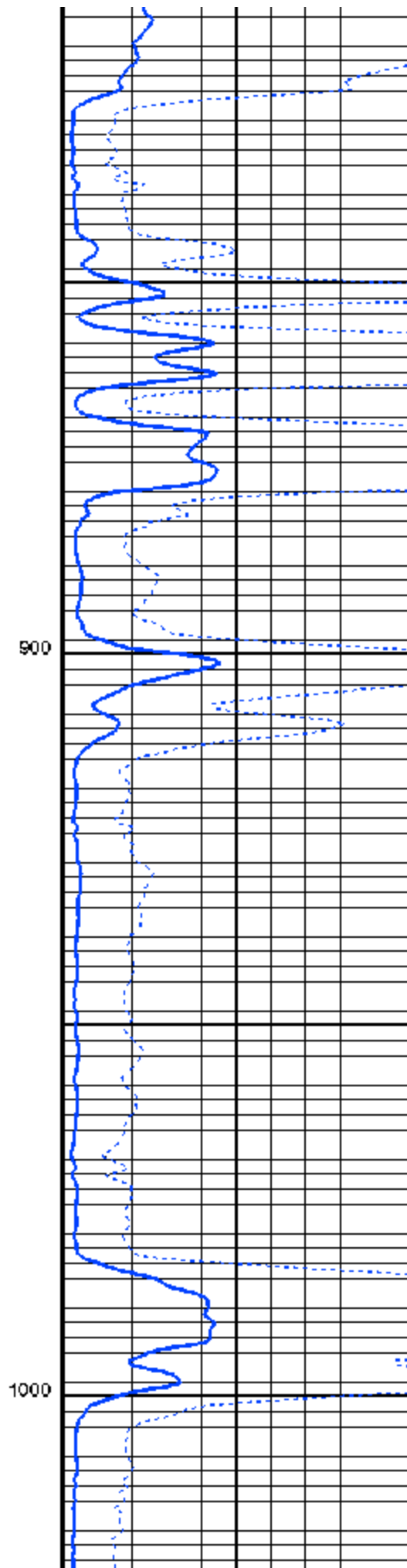
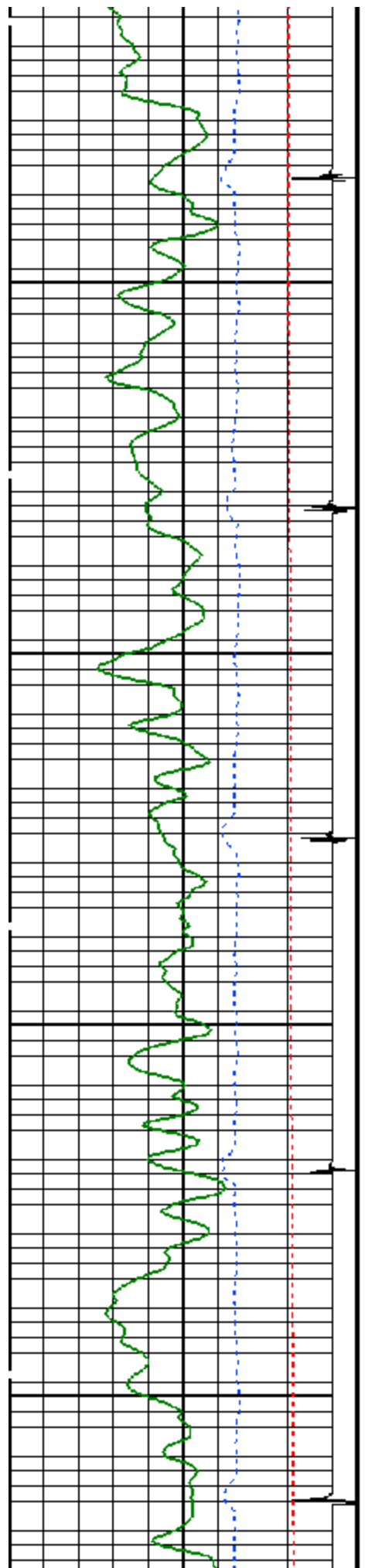
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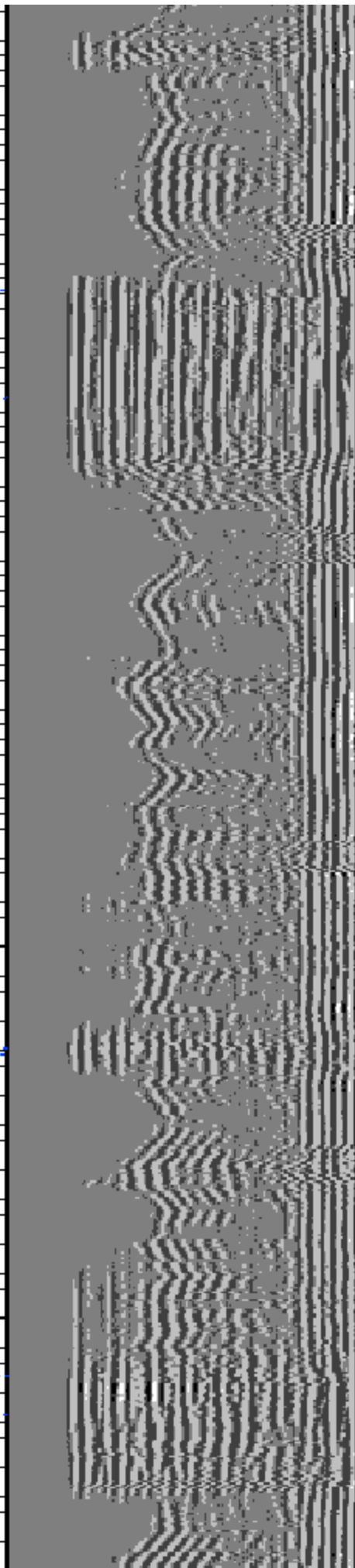
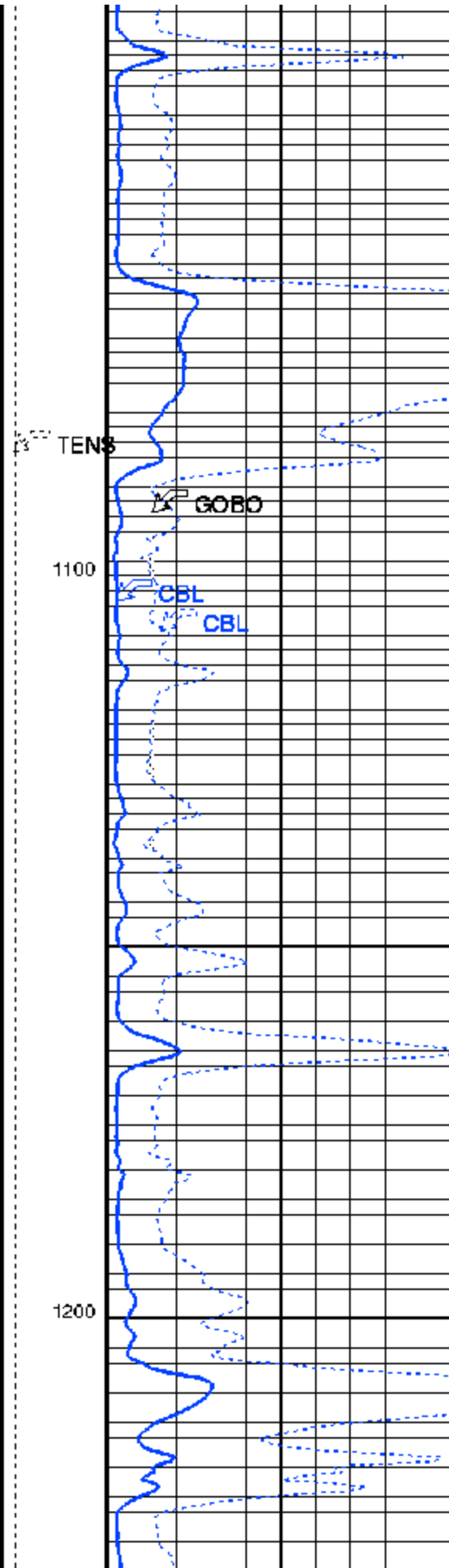
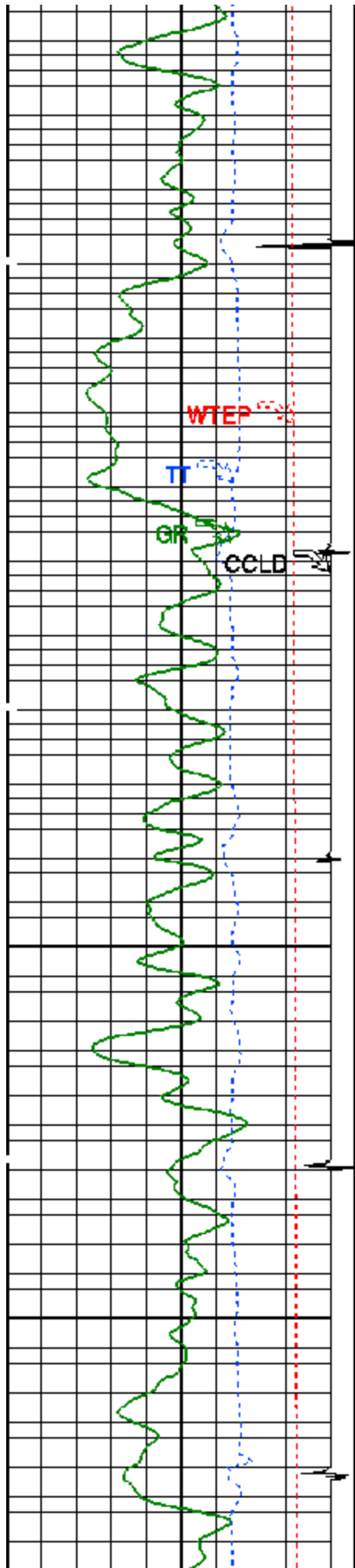
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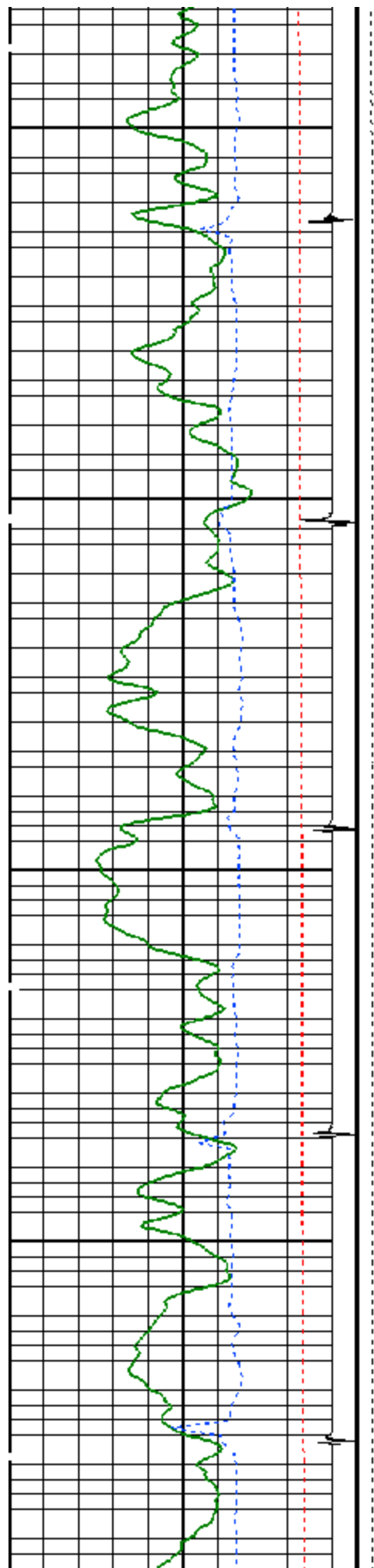






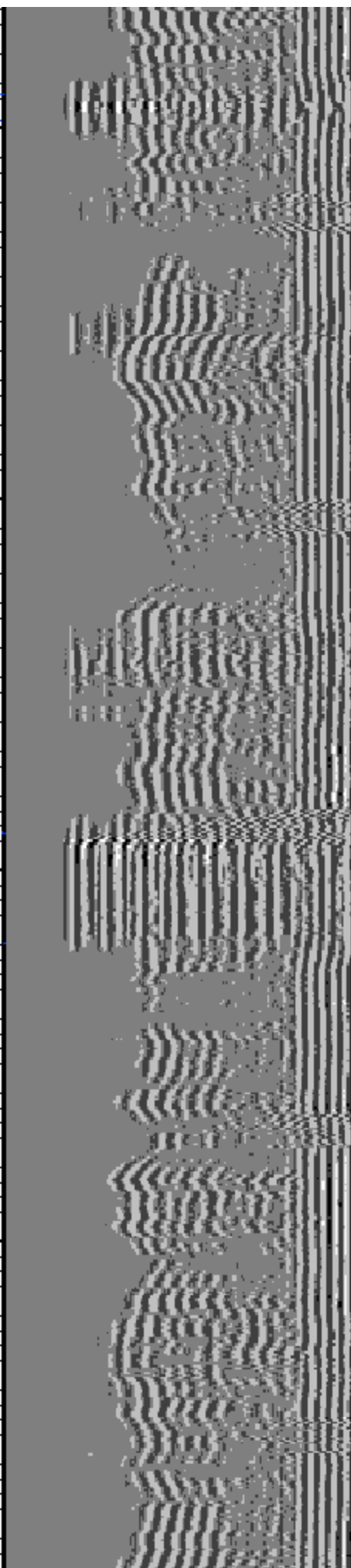
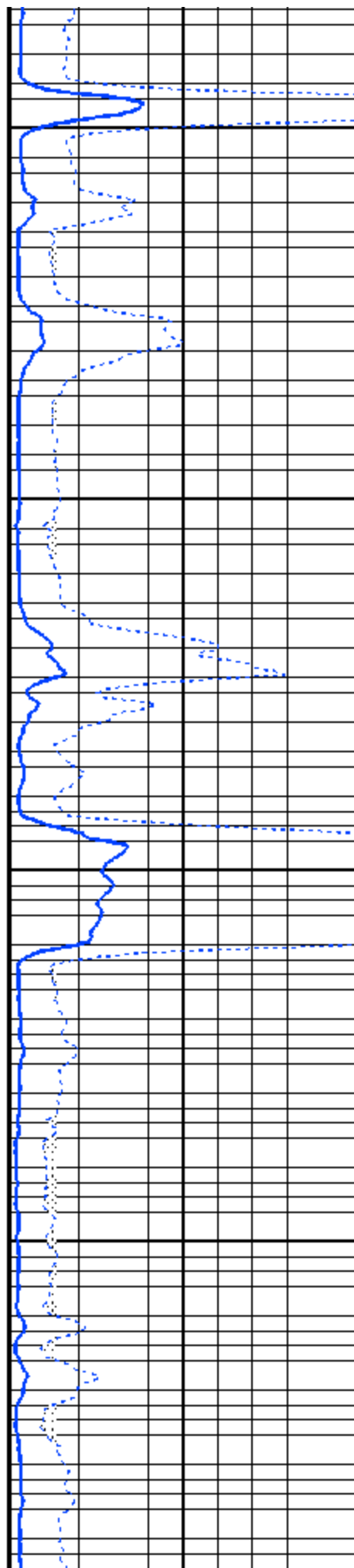


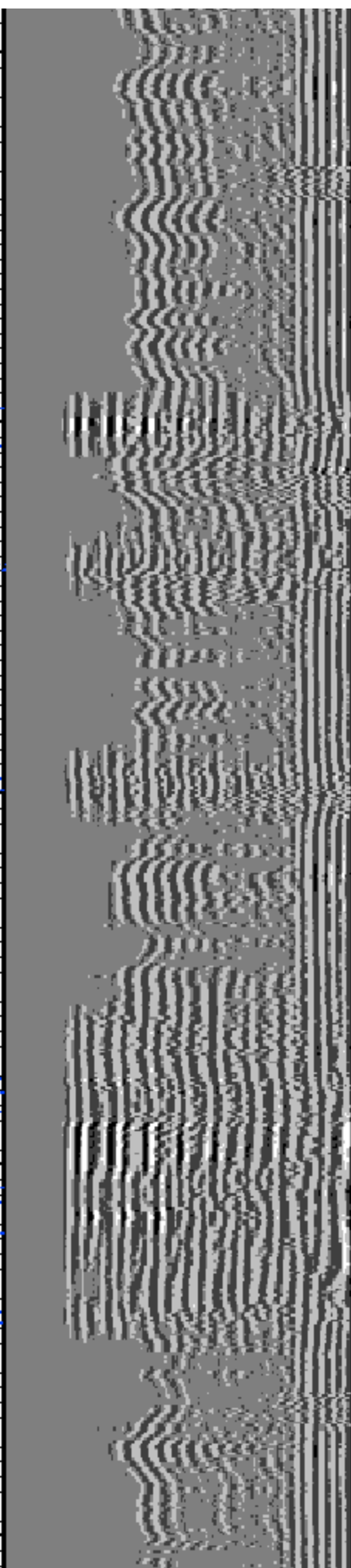
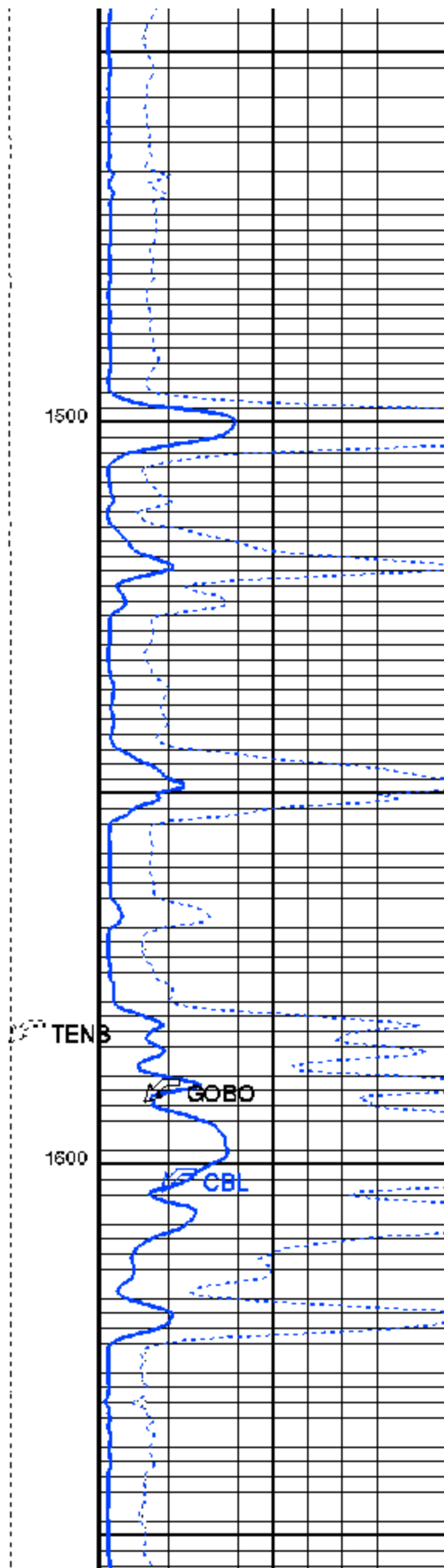
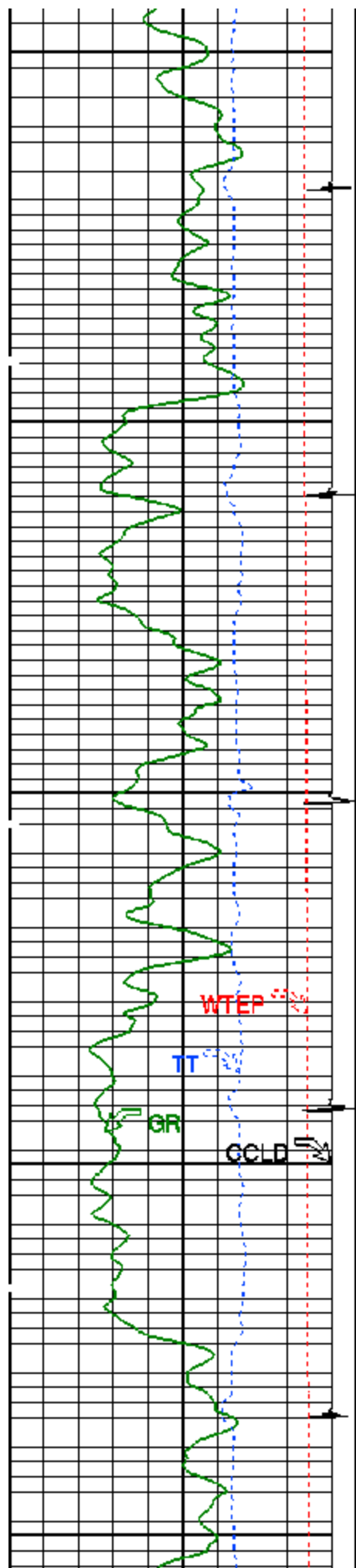


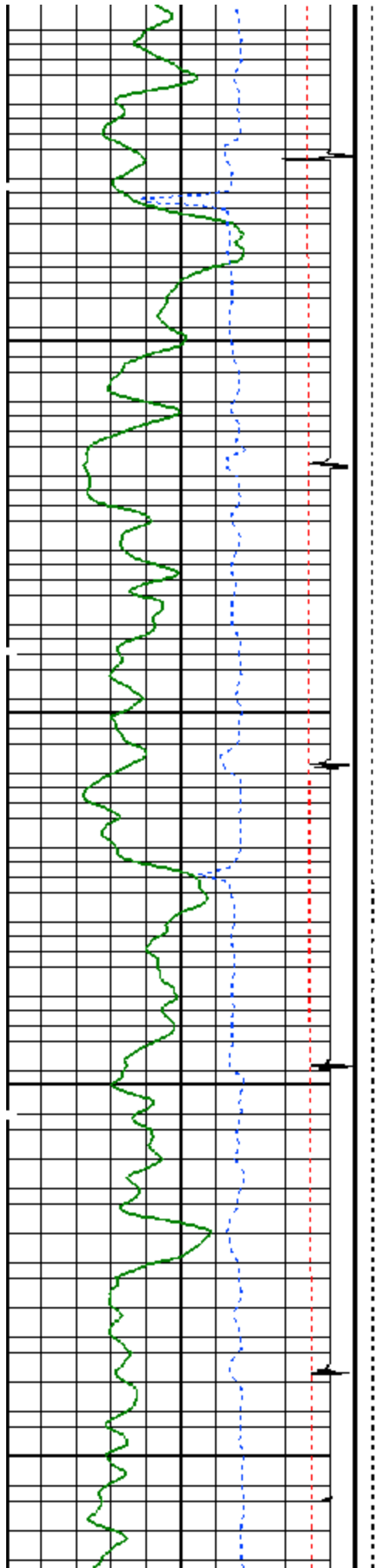


1300

1400

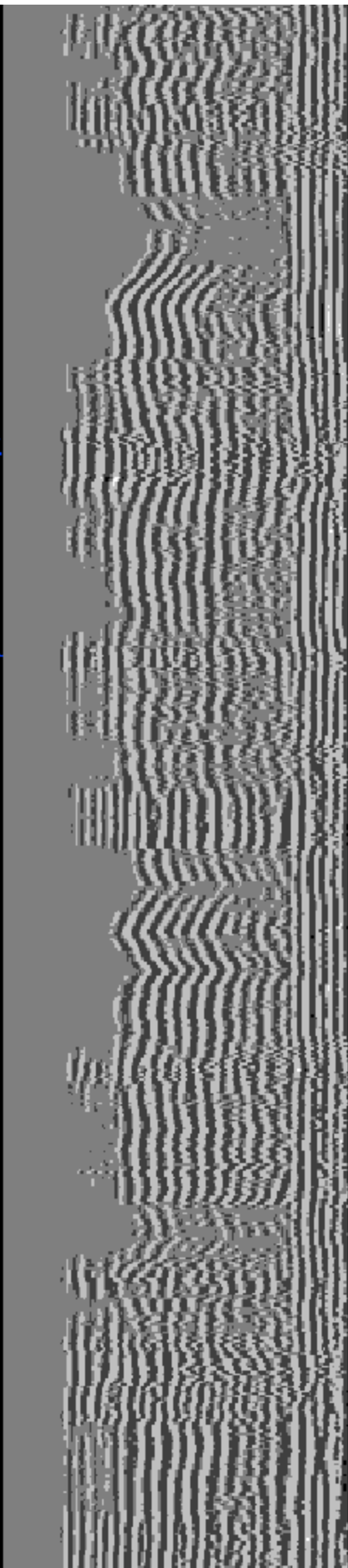
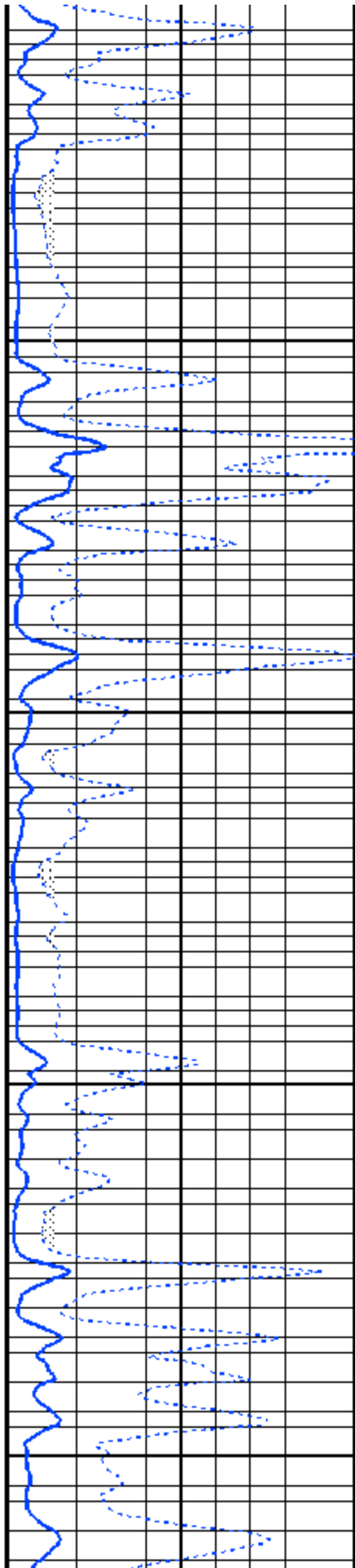


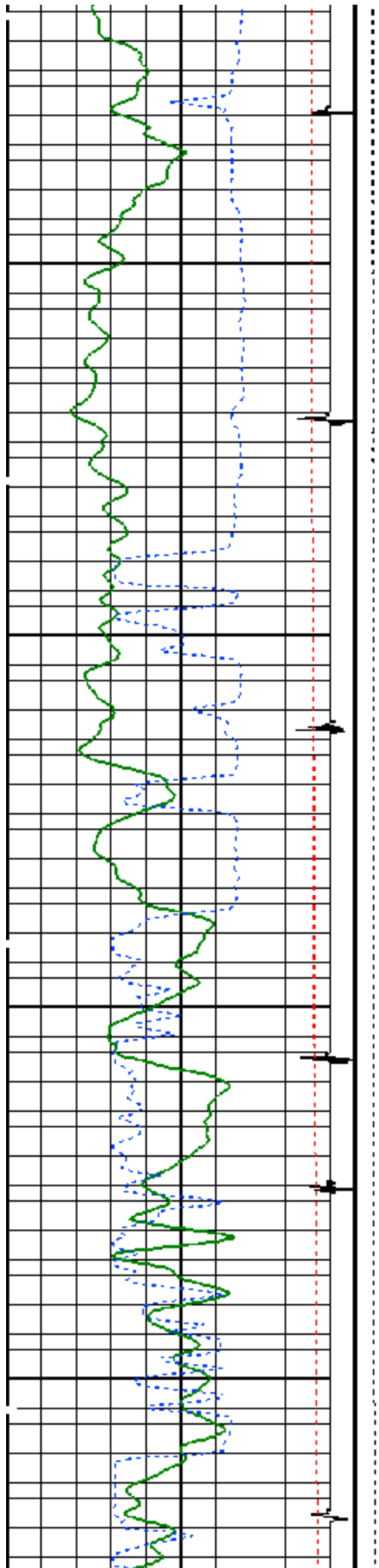




1700

1800

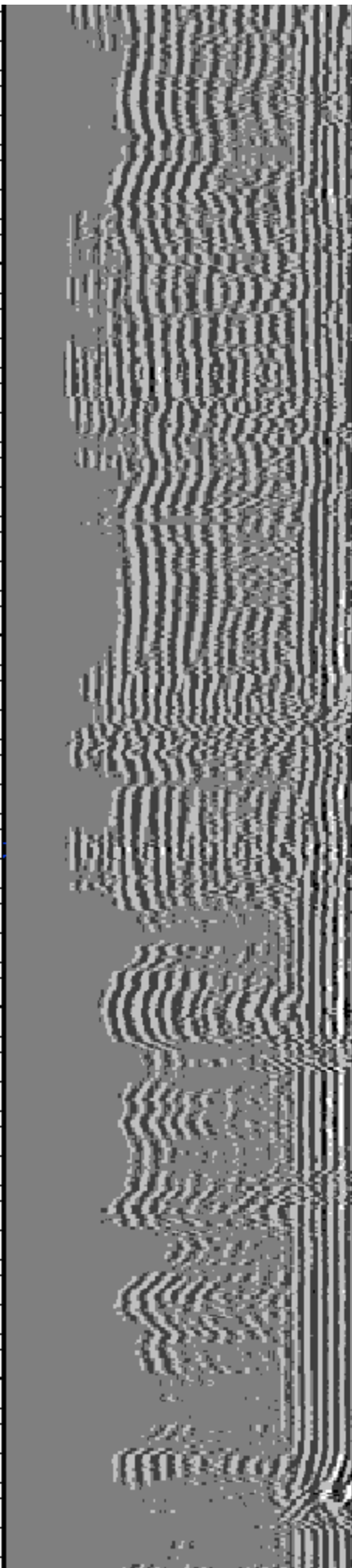
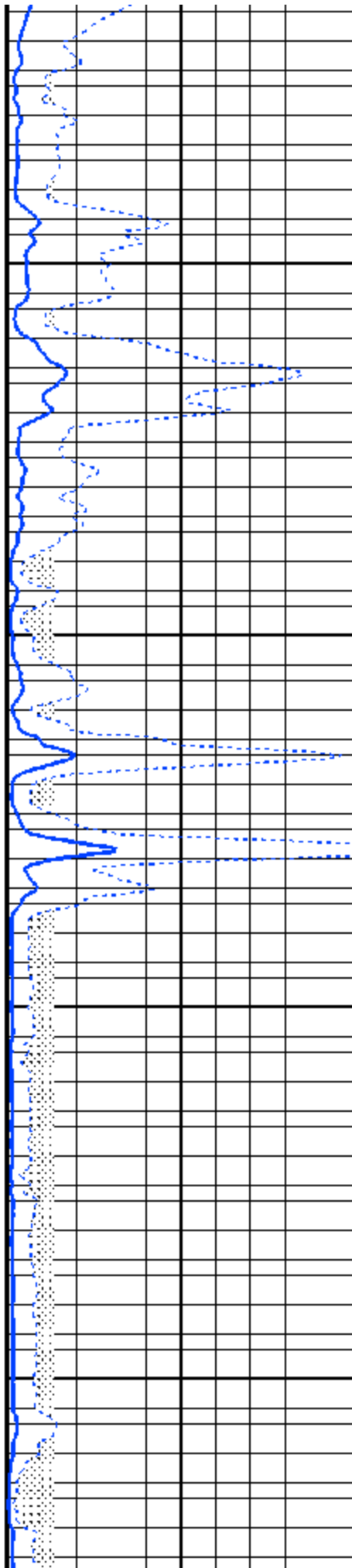


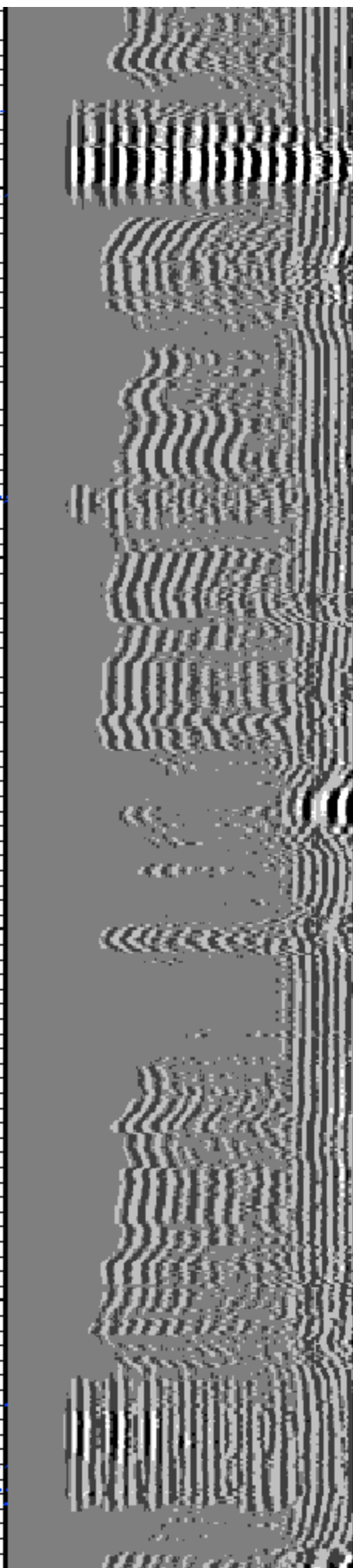
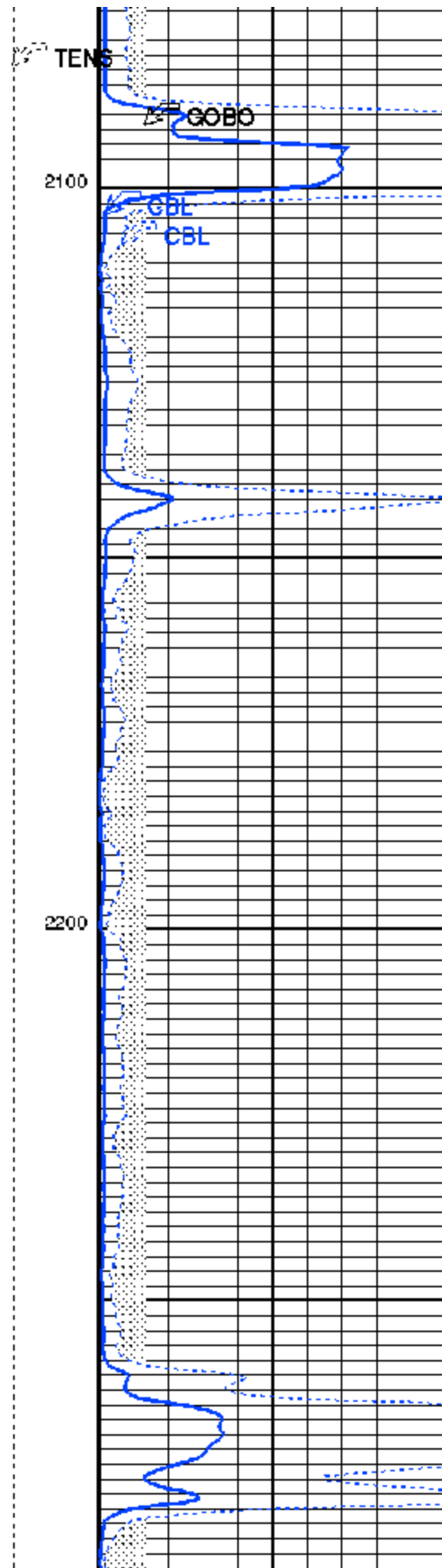
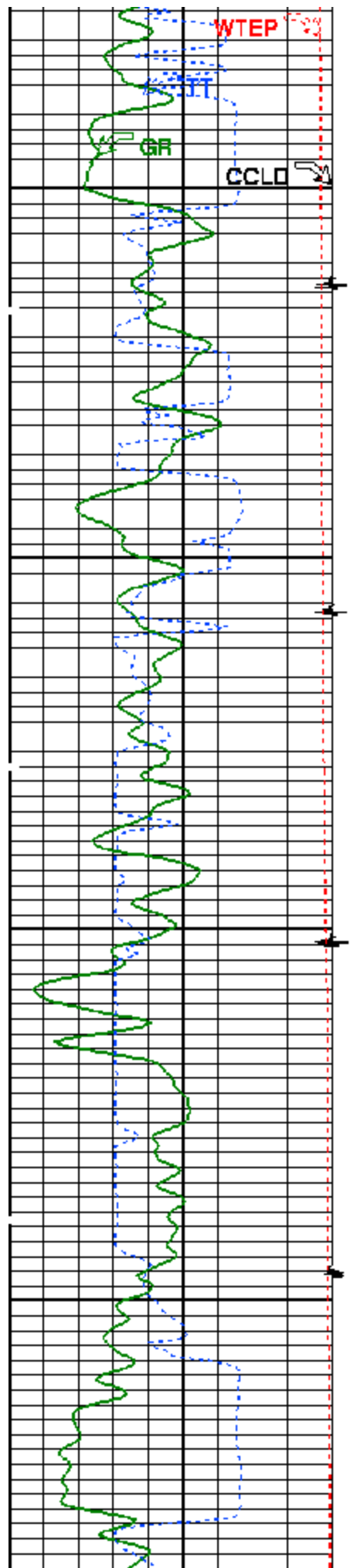


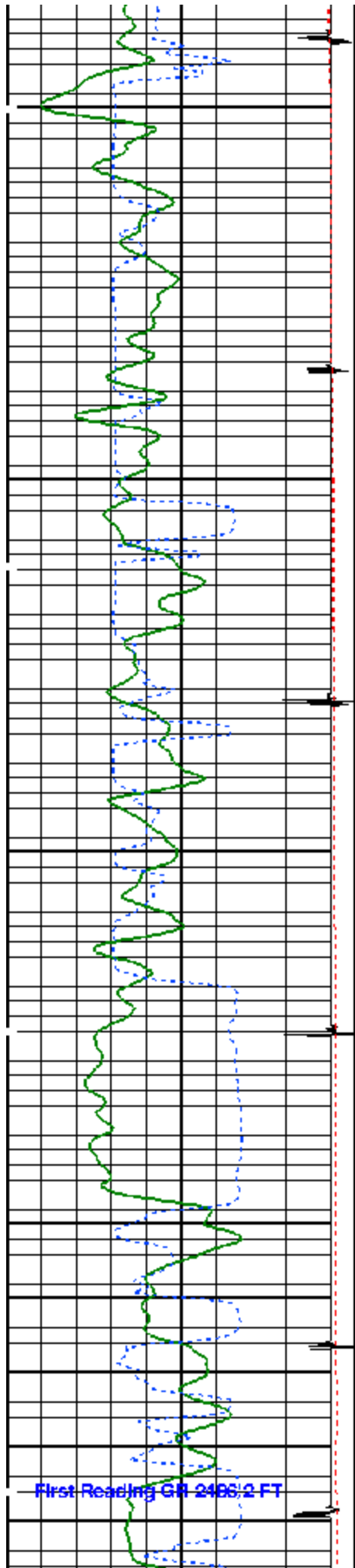
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1900

2000

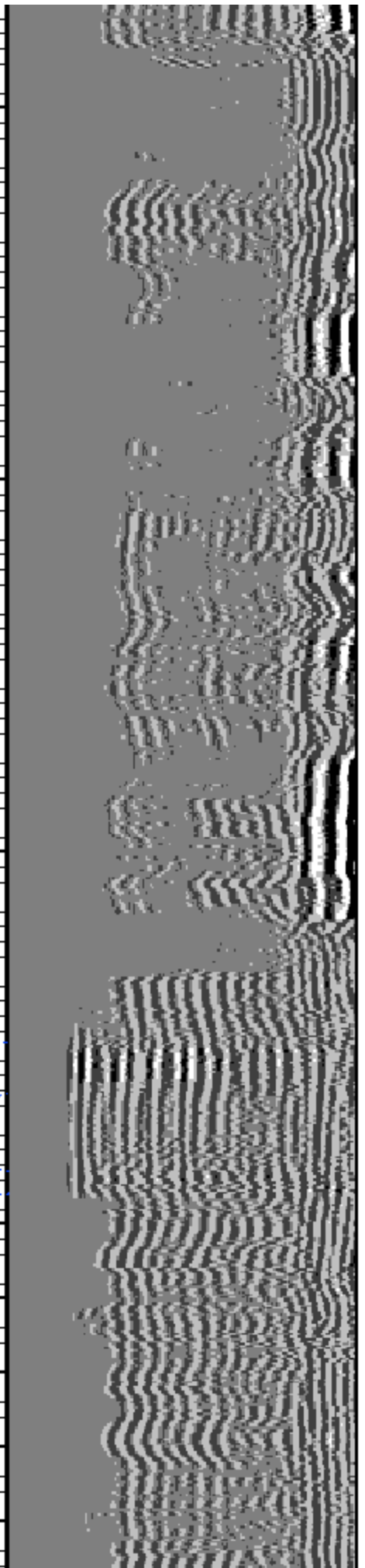
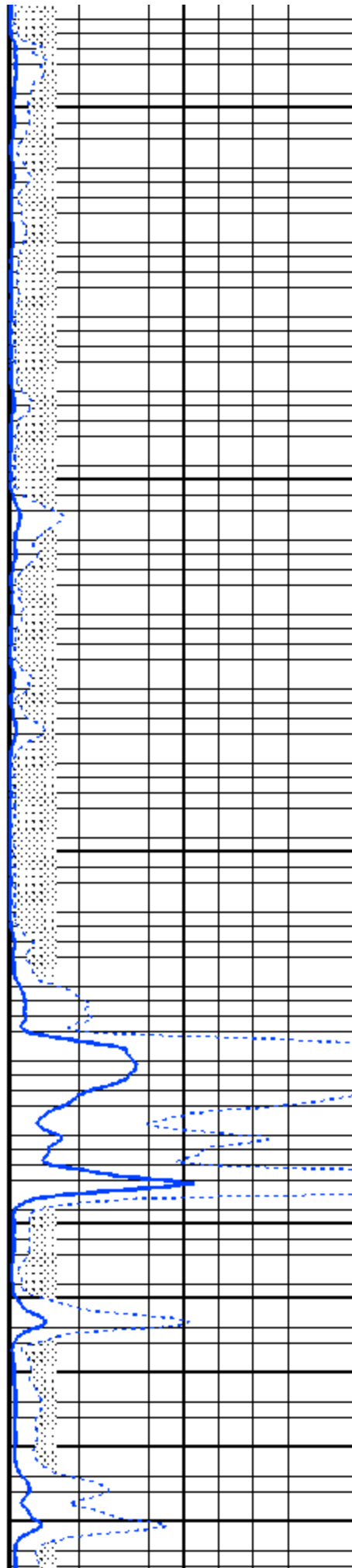


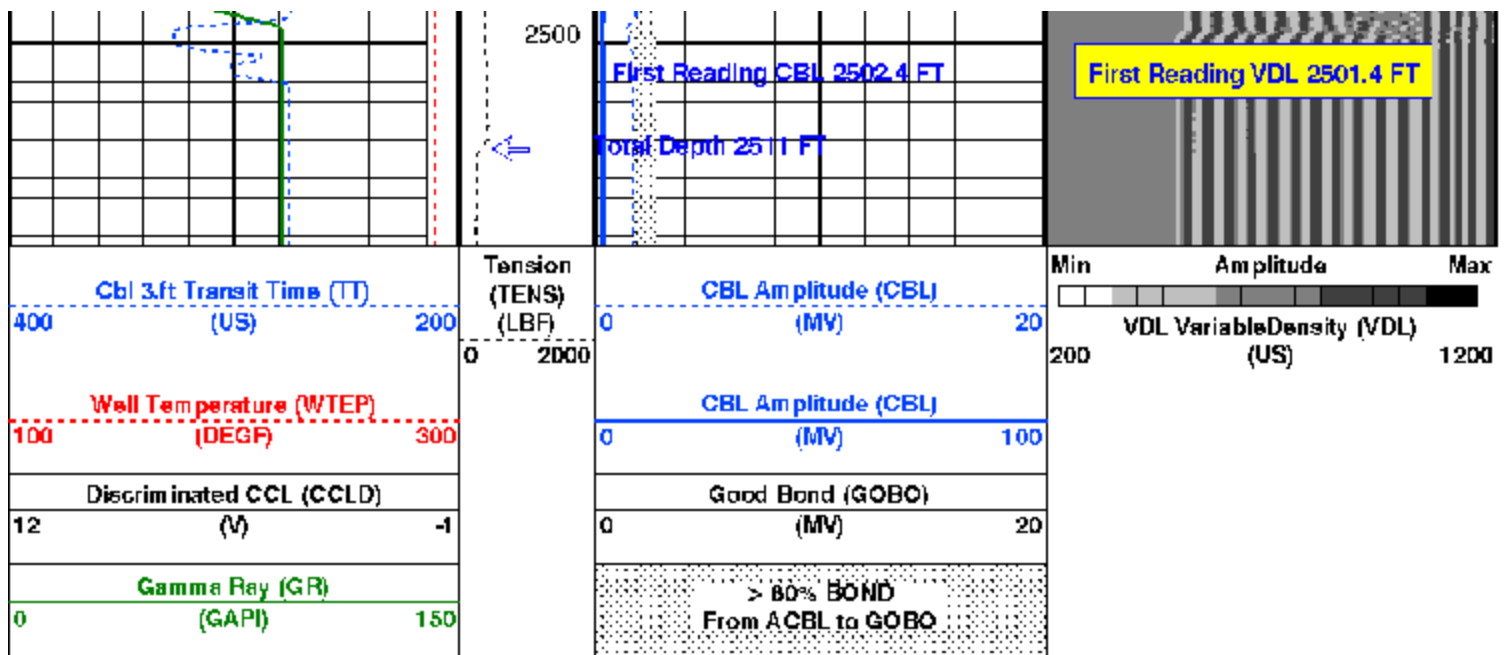




2300

2400





PIP SUMMARY

Time Mark Every 60 S

Format: Scmt_Amp_VDL Vertical Scale: 5" per 100'

Graphics File Created: 08-Sep-2008 10:22

OP System Version: 15C0-309

MCM

SCMT-CA

SRPC-3582-Q1_2008_OP15

PSPT-A/B

SRPC-3582-Q1_2008_OP15

Parameters

DLIS Name	Description	Value
SCMT-CA: Slim Cement Mapping Tool, 1-11/16 OD		
BILI	Bond Index Level for Zone Isolation	0.8
BISS	Bond Index Source Selection for BIQL	BI
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	238.059 US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20 MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	352.059 US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20 MV
CBLG	CBL Gate Width	40 US
CBRA	CBL LQC Reference Amplitude In Free Pipe	71 MV
CMCF	CBL Cement Type Compensation Factor	1
CMTG	SCMT Slow Channel Multiplexer Mode	SCAN
CMTM	SCMT Operating Mode	LOG
CMTP	SCMT Tool position on CAN	3
CSCS	SCMT Slow Channel Index	VCC
CTHI	Casing Thickness	0.306128 IN
DTF	Delta-T Fluid	189 US/F
FATT	Acoustic Attenuation due to Fluid	0 DE/F
FCF	CBL Fluid Compensation Factor	0.930926
GOBO	Good Bond	2.63842 MV
MAPD	SCMT MAP Peak Detection Mode	PEAK
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	181.059 US
MAPT	SCMT MAP Fixed Threshold Level	30 MV
MATT	Maximum Attenuation	13.848 DE/F
MCCF	MAP Cement Type Compensation Factor	1
MCI	Minimum Cemented Interval for Isolation	4.75 FT
MMSA	MAP Minimum Sonic Amplitude	7.35072 MV
MSA	Minimum Sonic Amplitude	1.15842 MV
PEDE	Peak Detection On/Off Switch in Playback	OFF
RBC	Relative Bearing Correction Allow/Disallow	ALLOW
VDLG	VDL Manual Gain	5
ZCMT	Acoustic Impedance of Cement	6.8 MRAY
PSPT-A/B: Production Services Logging Platform		
BHS	Borehole Status	CASED
BHT	Bottom Hole Temperature (used in calculations)	89 DEGF
CSID	Casing Size I.D.	4.892 IN
GCSE	Generalized Caliper Selection	BS

GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART GEN 2	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PBMS Tool position on CAN	2	
PCCG	PBMS CCL Gain	DB12	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	60	DEGF
System and Miscellaneous			
ALTDCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	8.34	LB/G
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
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	FT
TDD	Total Depth - Driller	2555.00	FT
TDL	Total Depth - Logger	-50000.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Output DLIS Files

DEFAULT SCMT_PSP_006LUP FN:5 PRODUCER 08-Sep-2008 10:22

Schlumberger

REPEAT PASS

MAXIS Field Log

Company: GENESIS GAS & OIL, LLC

Well: FLETCHER GULCH 3-21

Output DLIS Files

DEFAULT SCMT_PSP_006LUP FN:7 PRODUCER 08-Sep-2008 11:06

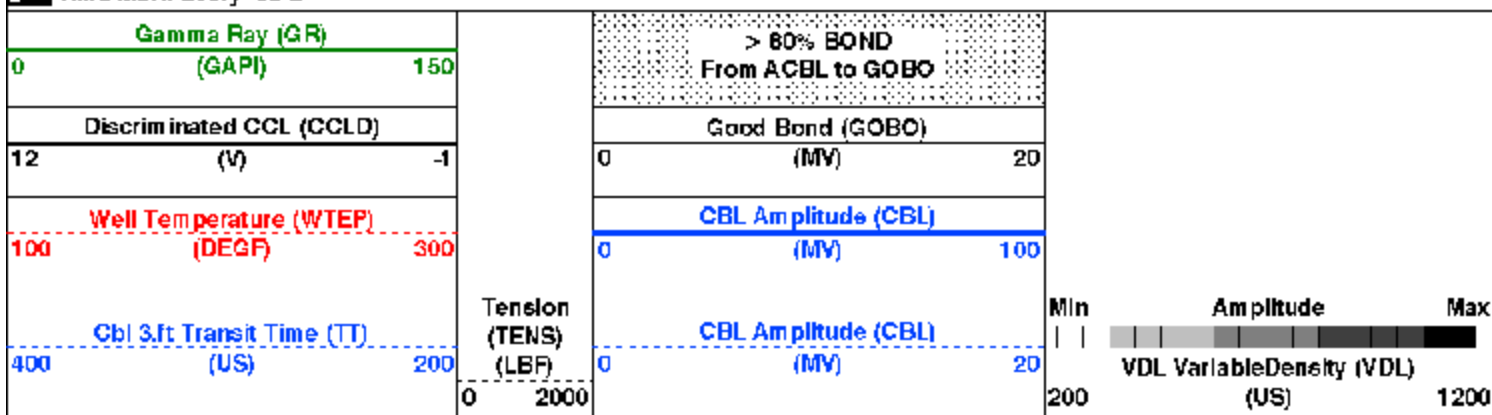
OP System Version: 15C0-309

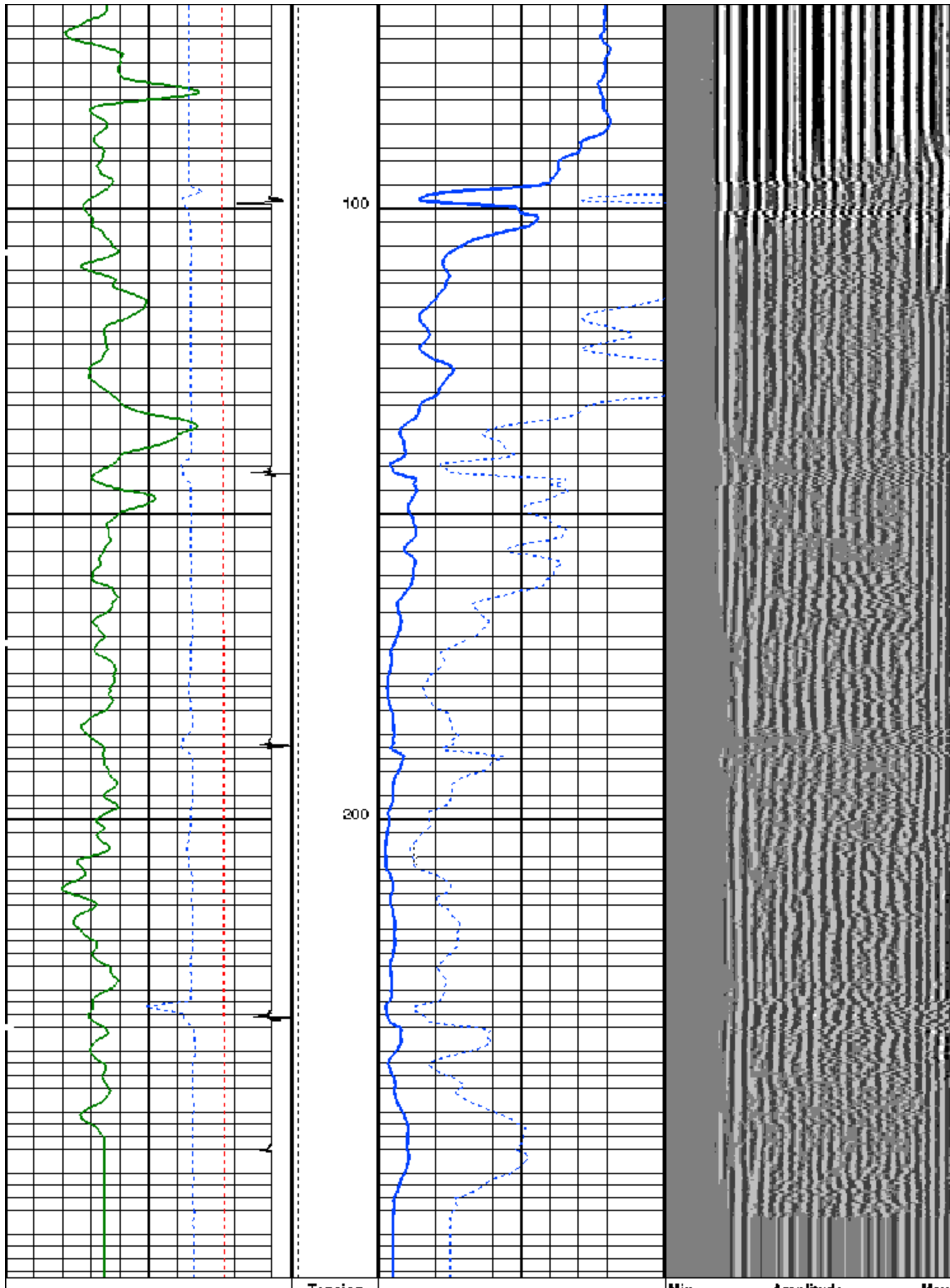
MCM

SCMT-CA SRPC-3582-Q1_2008_OP15 PSPT-A/B SRPC-3582-Q1_2008_OP15

PIP SUMMARY

Time Mark Every 60 S





Cbl 3.ft Transit Time (TT) (US)		100 (TENS) (LBF)	CBL Amplitude (CBL) (MV)		<div><div></div><div>min</div><div>Amplitude</div><div>max</div></div> VDL Variable Density (VDL) (US)
400	200		0	20	
Well Temperature (WTEP) (DEGF)			CBL Amplitude (CBL) (MV)		
100	300		0	100	
Discriminated CCL (CCLD) (V)		0 2000	Good Bond (GOBO) (MV)		<div><div></div><div>min</div><div>Amplitude</div><div>max</div></div> VDL Variable Density (VDL) (US)
12	-1		0	20	
Gamma Ray (GR) (GAPI)			> 80% BOND From ACBL to GOBO		
0	150				

PIP SUMMARY

Time Mark Every 60 S

Format: Sgmt_Amp_VDL Vertical Scale: 5" per 100'

Graphics File Created: 08-Sep-2008 11:08

OP System Version: 15C0-309

MCM

SCMT-CA

SRPC-3582-Q1_2008_OP15

PSPT-A/B

SRPC-3582-Q1_2008_OP15

Parameters

DLIS Name	Description	Value	
SCMT-CA: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
BISS	Bond Index Source Selection for BICL	BI	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	238.059	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	352.059	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LGC Reference Amplitude In Free Pipe	71	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTG	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CMTF	SCMT Tool position on CAN	3	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.306128	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DE/F
FCF	CBL Fluid Compensation Factor	0.930926	
GOBO	Good Bond	2.63842	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	181.059	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	13.848	DE/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	4.75	FT
MMSA	MAP Minimum Sonic Amplitude	7.35072	MV
MSA	Minimum Sonic Amplitude	1.15842	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
PSPT-A/B: Production Services Logging Platform			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	89	DEGF
CSID	Casing Size I.D.	4.892	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DE/F
GRSE	Generalized Mud Resistivity Selection	CHART GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PBMS Tool position on CAN	2	
PCCG	PBMS CCL Gain	DB12	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	80	DEGF

System and Miscellaneous

ALTDCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Blt Size	7.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	17.00	LB/F
DFD	Drilling Fluid Density	8.34	LB/G
FLEV	Fluid Level	0.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
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	FT
TDD	Total Depth - Driller	2555.00	FT
TDL	Total Depth - Logger	2511.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Output DLIS Files

DEFAULT SCMT_PSP_008LUP FN:7 PRODUCER 08-Sep-2008 11:06

Company: **GENESIS GAS & OIL, LLC**

Schlumberger

Well: **FLETCHER GULCH 3-21**

Field: **WILDCAT**

County: **RIO BLANCO**

State: **COLORADO**

CEMENT BOND LOG

GAMMA RAY

COLLARS/TEMPERATURE/PRESSURE