

Company: GENESIS GAS & OIL, LLC

Well: FLETCHER GULCH 4-24

Field: WILDCAT

County: RIO BLANCO State: COLORADO

CEMENT BOND LOG  
GAMMA RAY  
COLLARS/PRESSURE/TEMPERATURE

1904 FNL & 574' FEL  
Elev.: K.B. 6486.9 ft  
G.L. 6475.9 ft  
D.F. 6485.9 ft

Permanent Datum: GROUND LEVEL  
Log Measured From: KELLY BUSHING  
Drilling Measured From: KELLY BUSHING  
Elev.: 6475.9 ft  
11.0 ft above Perm. Datum

County: RIO BLANCO  
Field: WILDCAT  
Location: 1904' FNL & 574' FEL  
Well: FLETCHER GULCH 4-24  
Company: GENESIS GAS & OIL, LLC

LOCATION  
API Serial No. 0510310697 00  
Section 4  
Township 1N  
Range 100W

Logging Date 0-8-Sep-2000

Run Number 1

Depth Driller 2466 ft

Schlumberger Depth 2405 ft

Bottom Log Interval 2405 ft

Top Log Interval 100 ft

Casing Fluid Type WATER

Salinity

Density 8.34 lbm/gal

Fluid Level 0 ft

BIT/CASING/TUBING STRING

Bit Size 7.875 in

From 0 ft

To 2466 ft

Casing/Tubing Size 6.500 in

Weight 17 lbm/ft

Grade

From 0 ft

To 2405 ft

Maximum Recorded Temperatures 87 degF

Logger On Bottom 8 Sep 2008 11:46

Unit Number 403 Location VERNAL

Recorded By SCOTTRAOCH

Witnessed By ED MARTIN

Oil Density	Run 1	Run 2
Water Salinity		
Gas Gravity		
Ba		
Bw		
1-Bq		
Bubble Point Pressure		
Bubble Point Temperature		
Solution GOR		
Maximum Deviation		

CEMENTING DATA

Primary/Squeeze	Primary
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 Time

Unit Number Location

Recorded By

Witnessed By

[illegible]

## DEPTH SUMMARY LISTING

Depth System Equipment				Date Created: 8-SEP-2008 11:57:58
Depth Measuring Device		Tension Device		Logging Cable
Type:	IDW-B	Type:	CMTD-C	Type:
Serial Number:	6408	Serial Number:	5022	Serial Number:
Calibration Date:	06-04-08	Calibration Date:	13-AUG-08	Length:
Calibrator Serial Number:	1	Calibrator Serial Number:	1	Conveyance Method:
Calibration Cable Type:	1-23P	Calibration Gain:	0.90	Pig Type:
Wheel Correction 1:	-4	Calibration Offset:	-120.00	
Wheel Correction 2:	-4			
<h3>Depth Control Parameters</h3>				
Log Sequence:	Subsequent Trip To the Well			
Reference Log Name:	PLATFORM EXPRESS			
Reference Log Run Number:	1			
Reference Log Date:	29-JUN-08			
Subsequent Trip Down Log Correction:	1.50 FT			
<h3>Depth Control Remarks</h3>				
1. IDW USED AS PRIMARY DEPTH CONTROL 2. Z-CHART USED AS SECONDARY 3. 4. 5. 6.				

## DISCLAIMER

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.

OTHER SERVICES1 OS1: NONE OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
LOG CORRELATED TO SCHLUMBERGER PEX LOG DATED 29-JUN-08	







DEFAULT

SCMT\_PSP\_004LUP

FN:3

PRODUCER

08-Sep-2008 12:14

# OP System Version: 15C0-309

MCM

SCMT-CA

SRPC-3582-Q1\_2008\_OP15

PSPT-A/B

SRPC-3582-Q1\_2008\_OP15

## Changed Parameter Summary

DLIS Name

New Value

Previous Value

Depth & Time

TDL

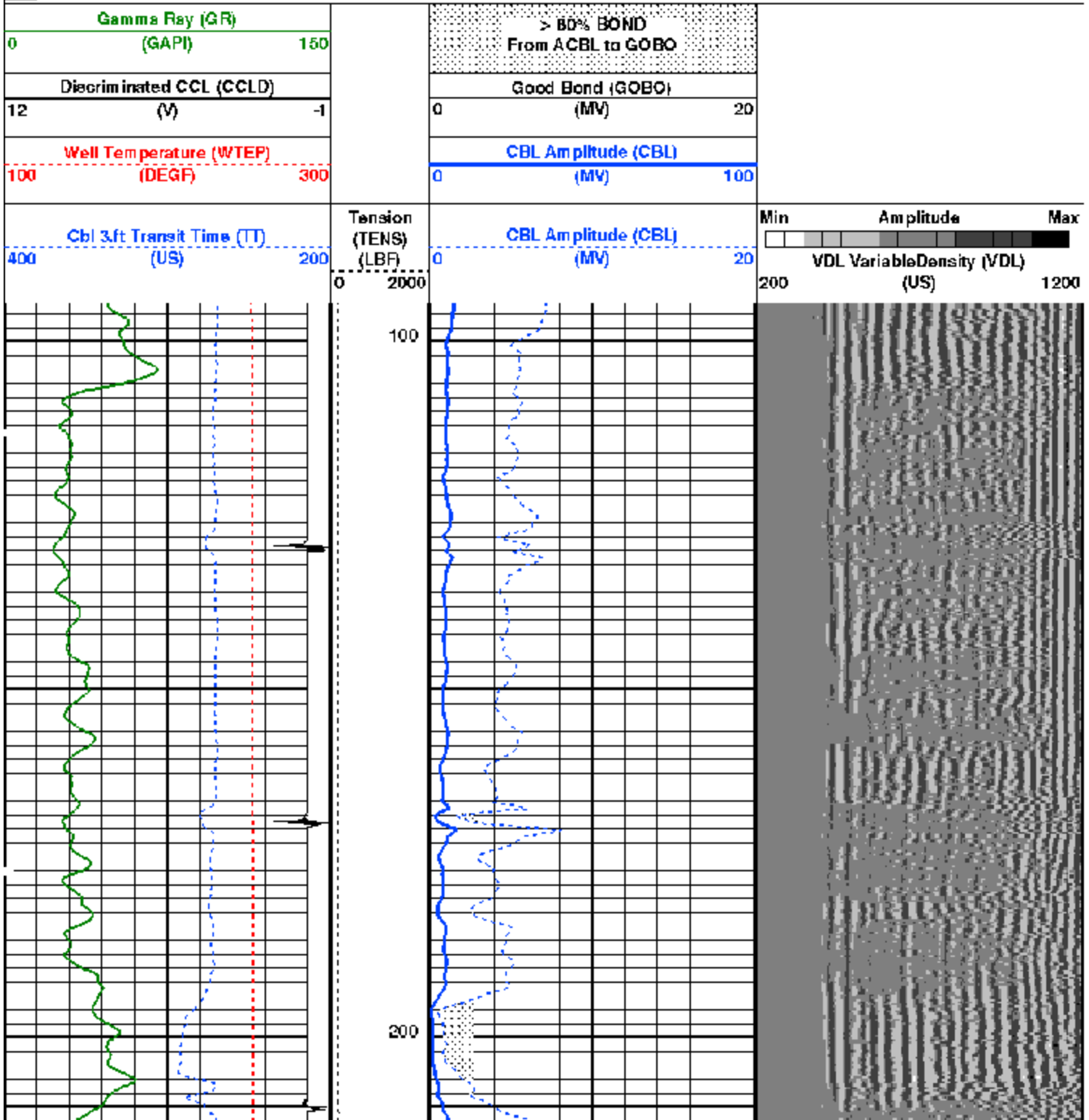
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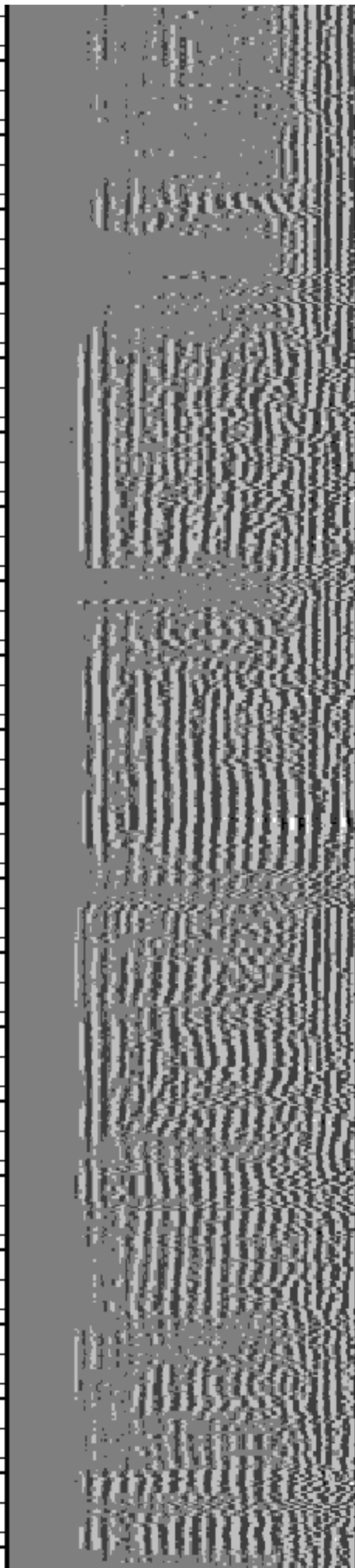
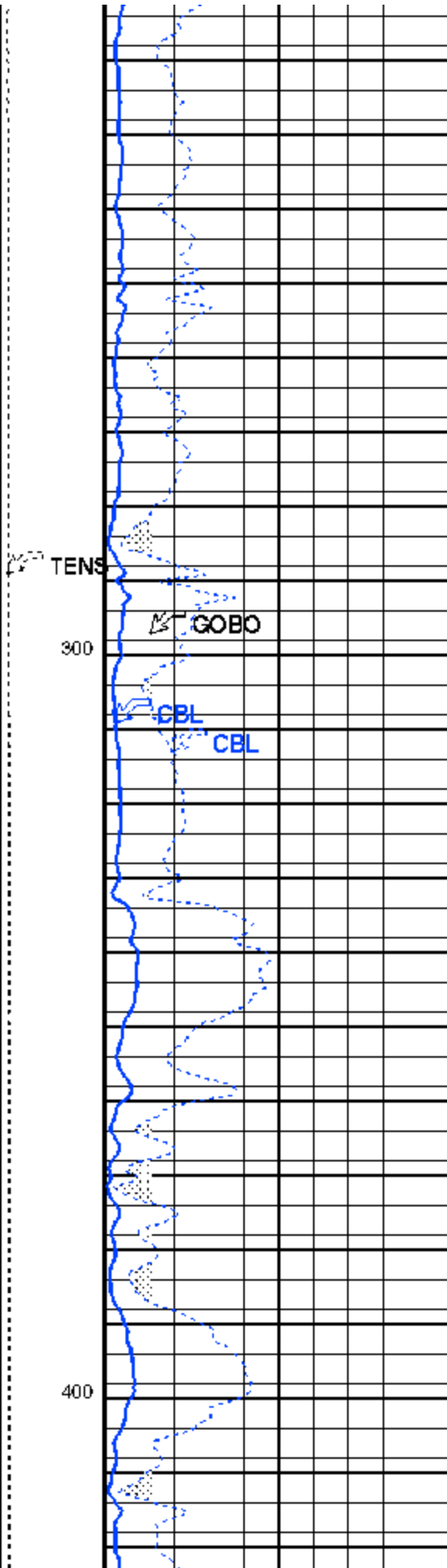
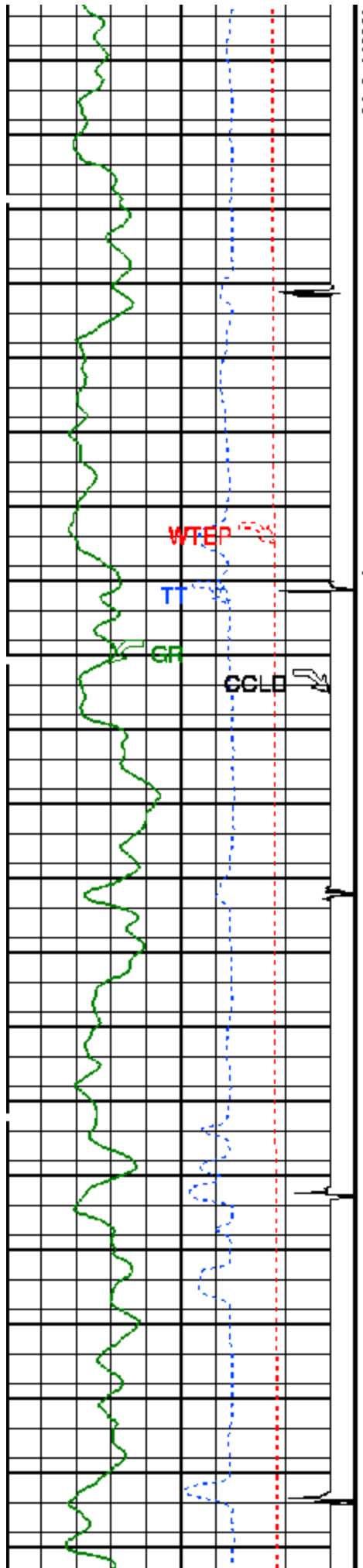
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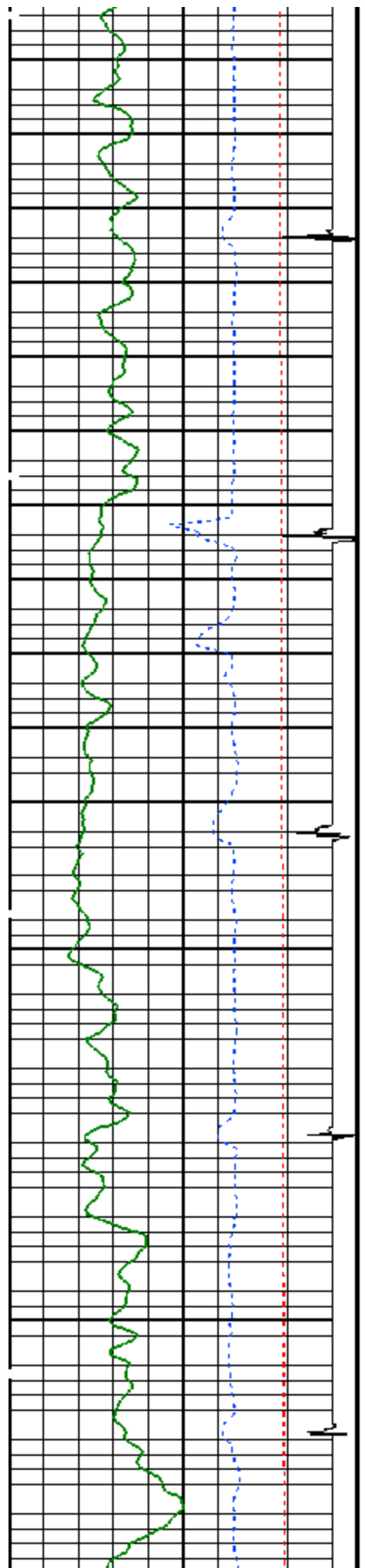
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### PIP SUMMARY

Time Mark Every 60 S

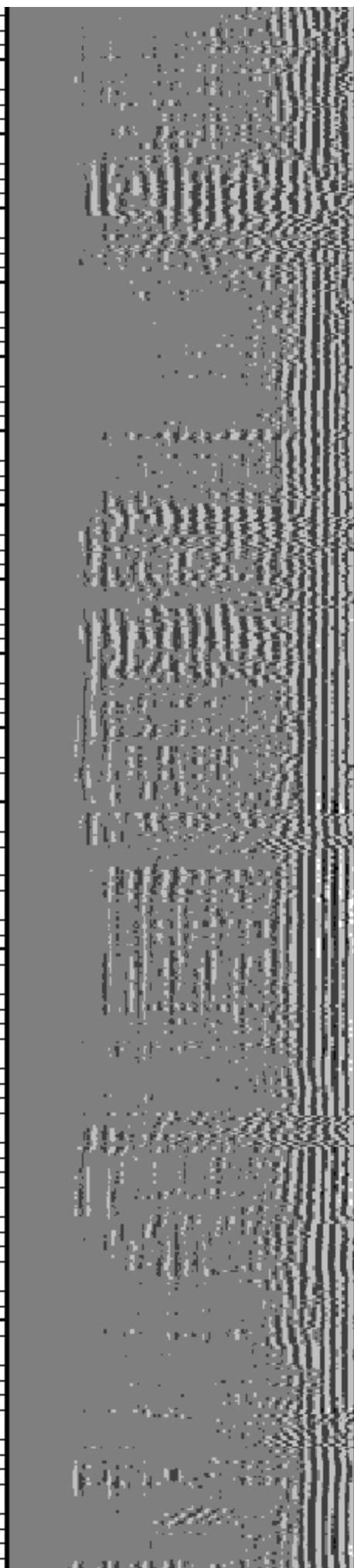
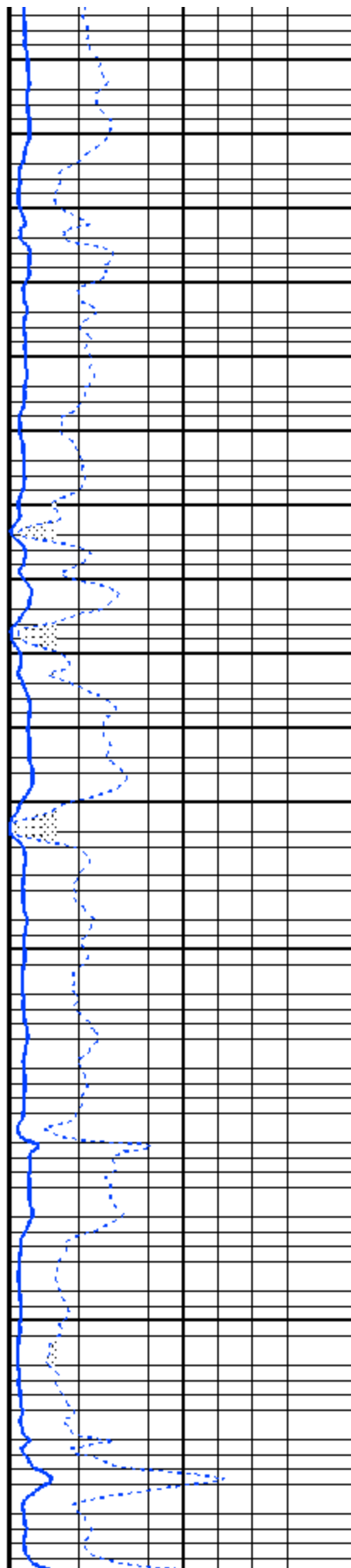


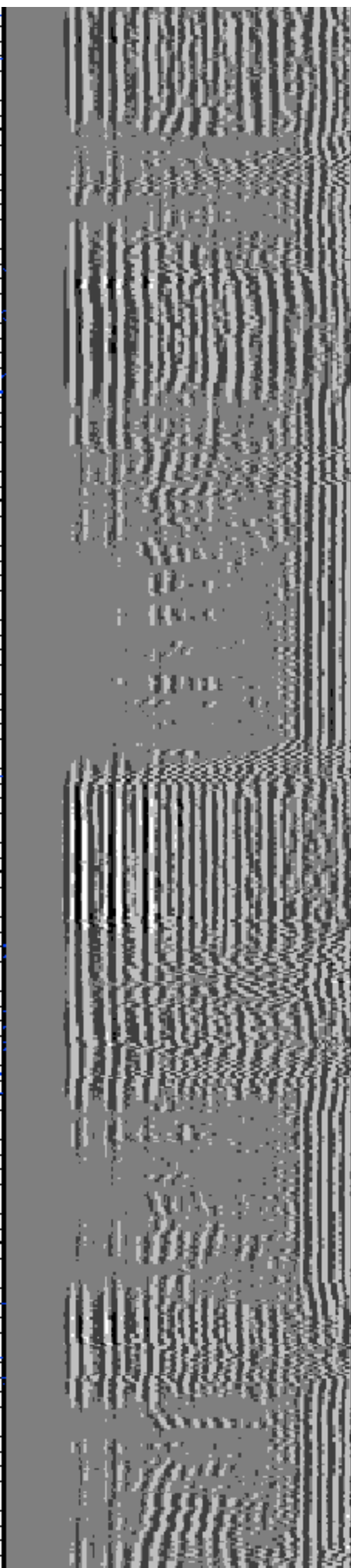
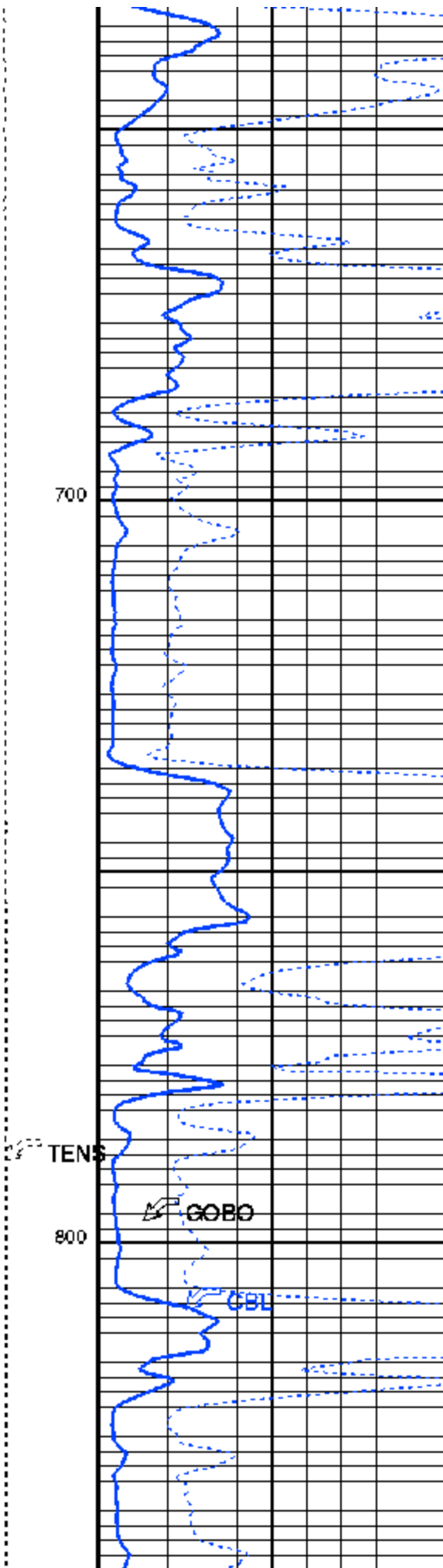
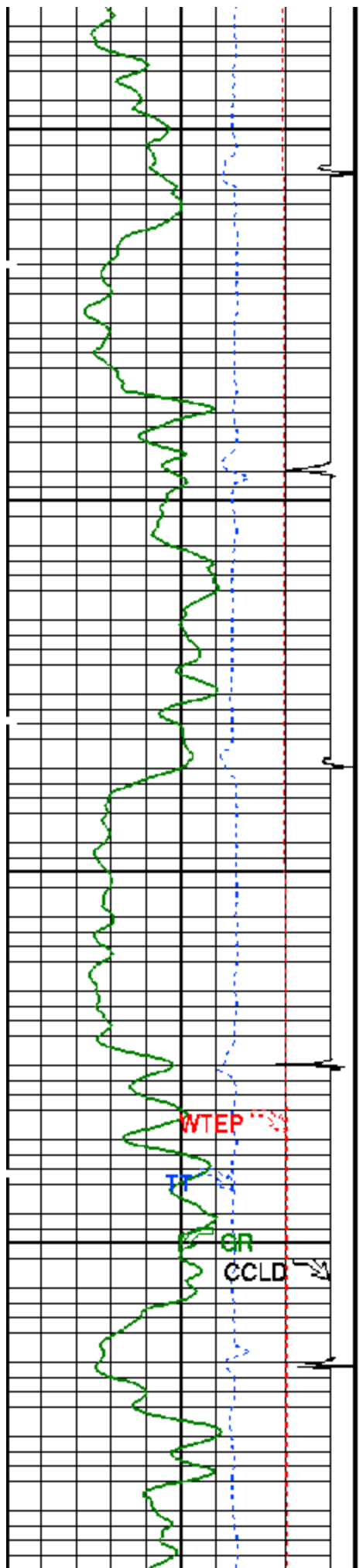


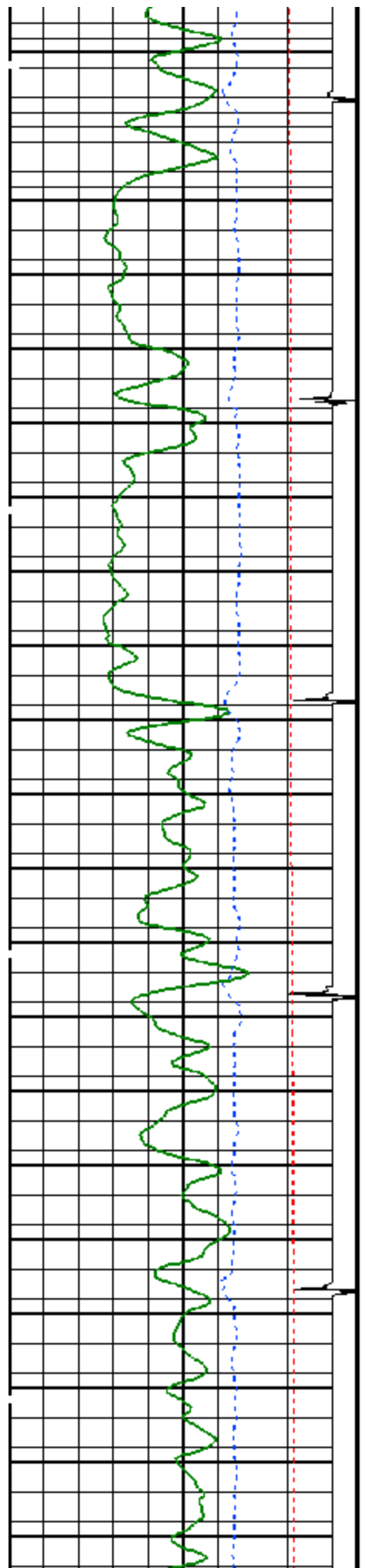


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600

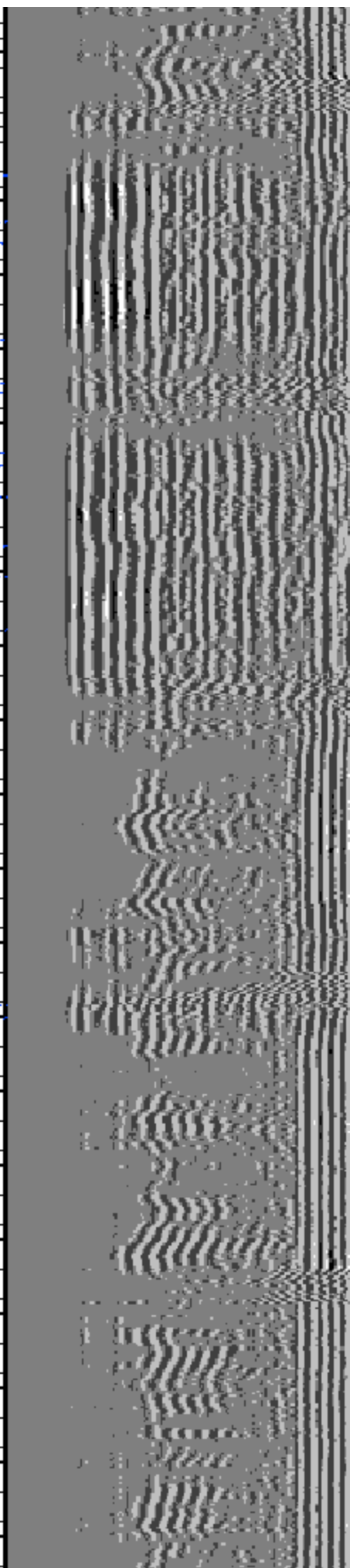
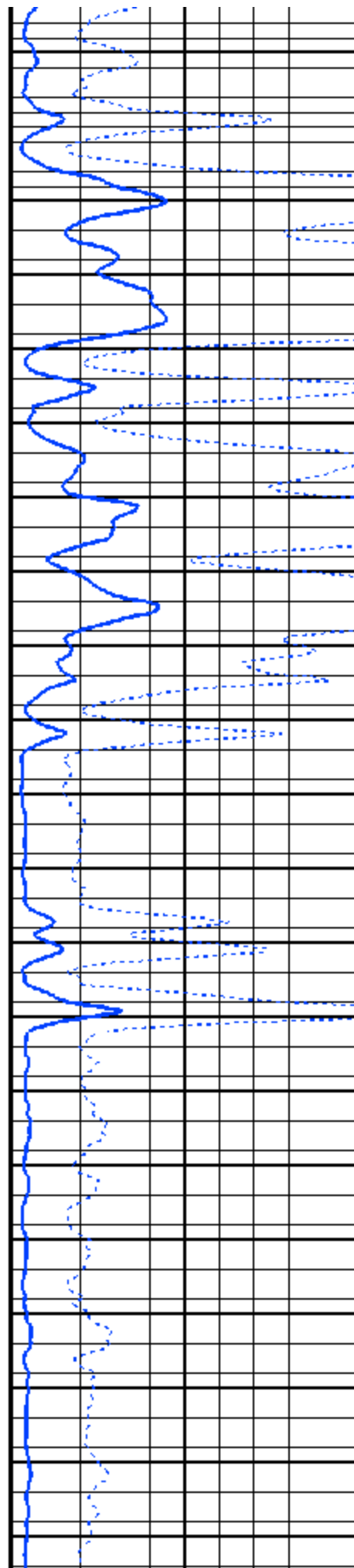


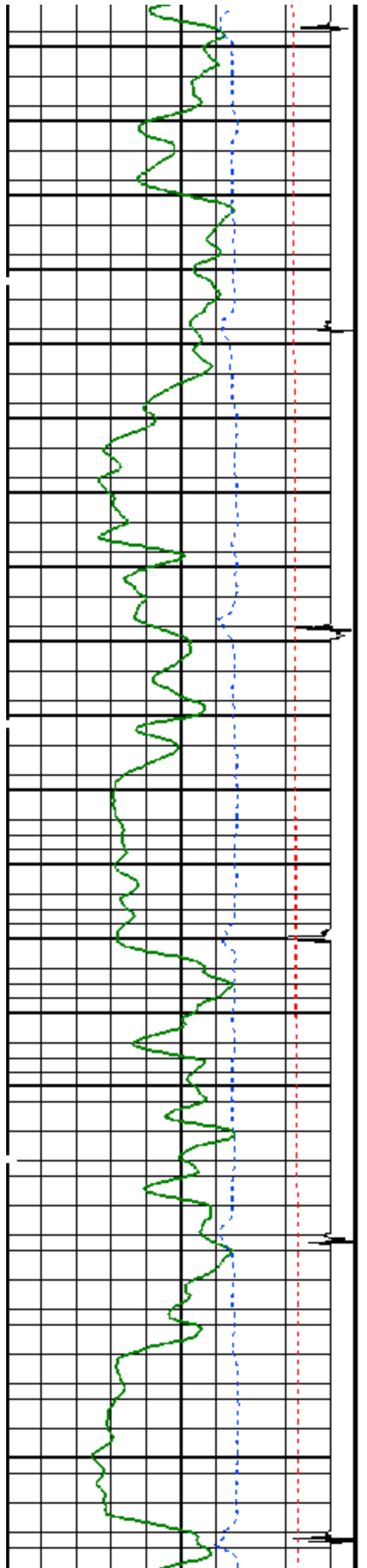




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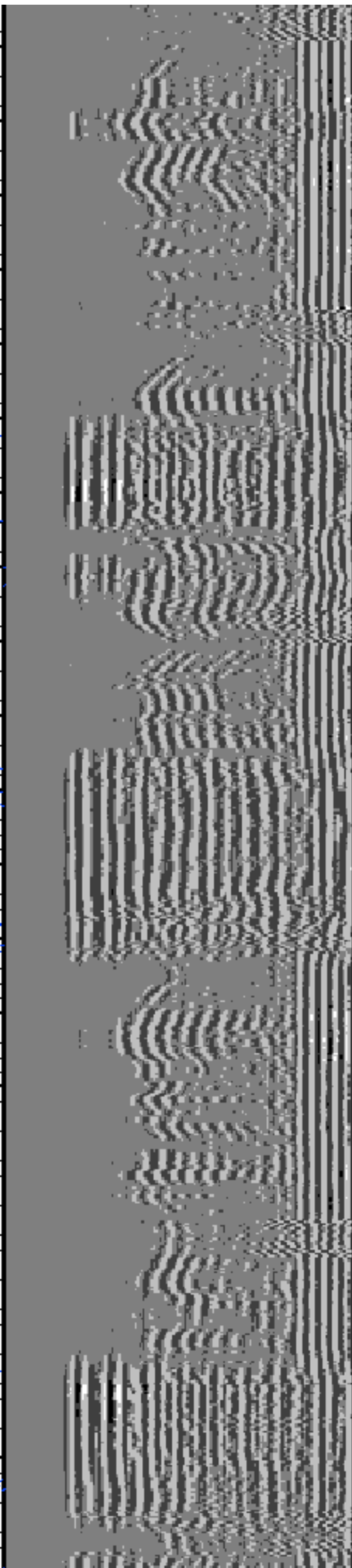
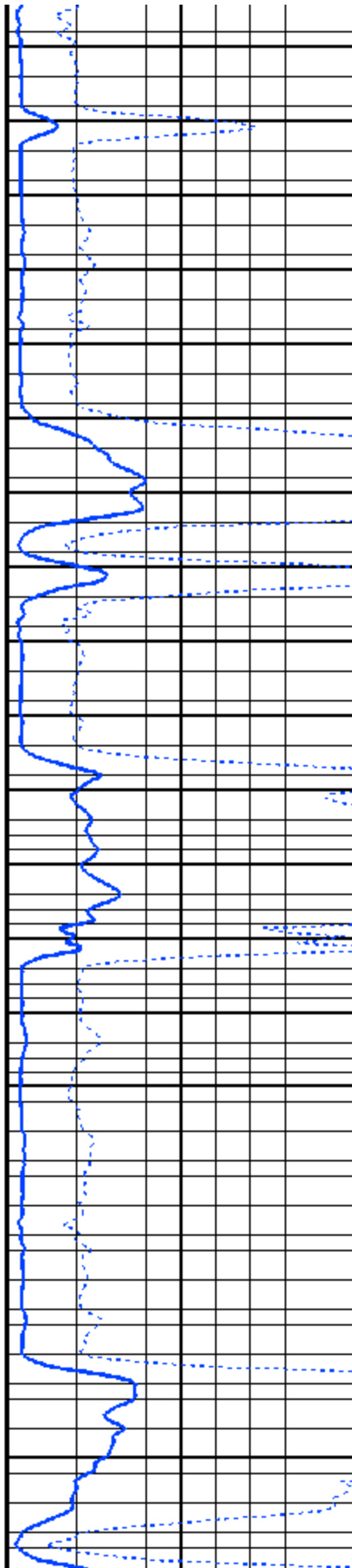
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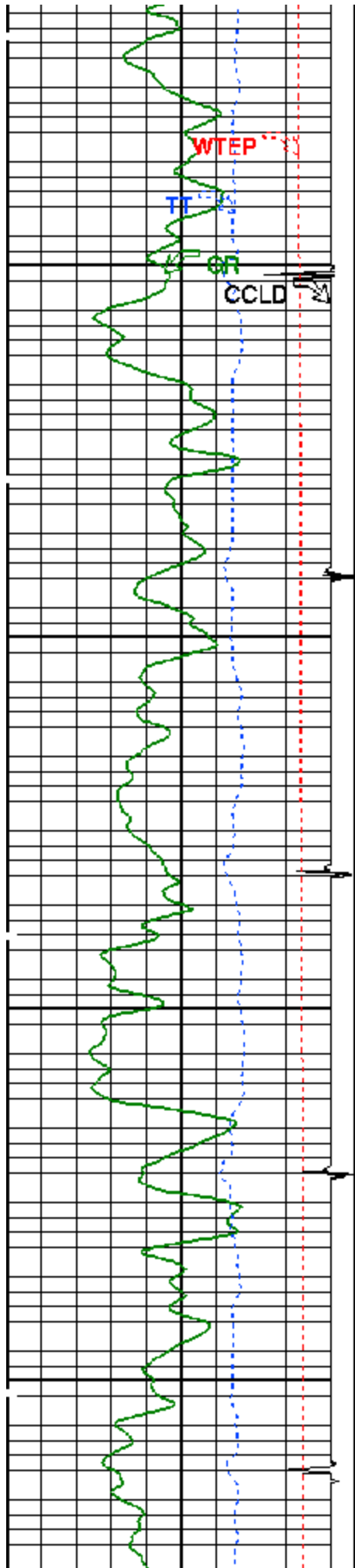




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1200





TENS

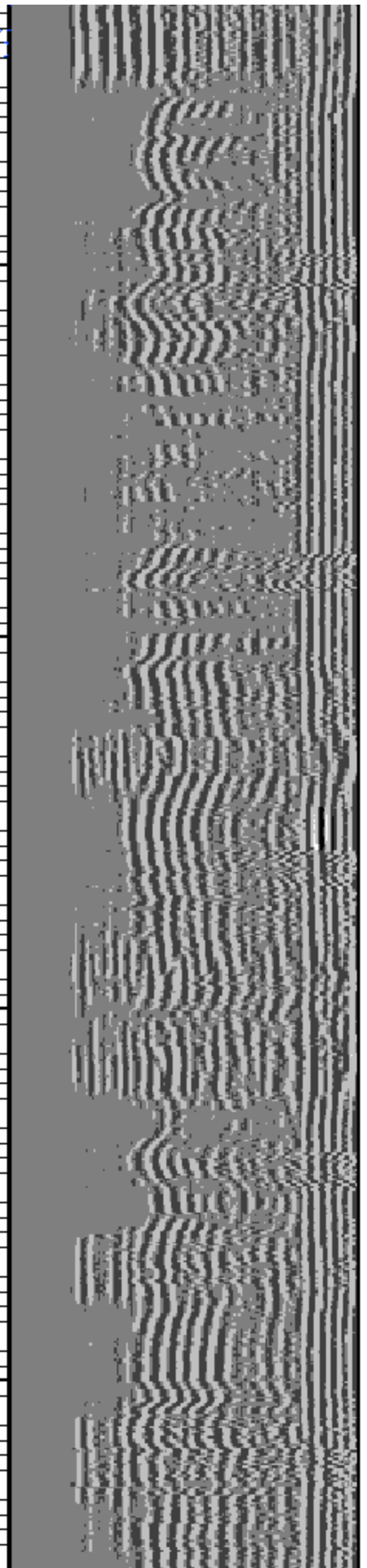
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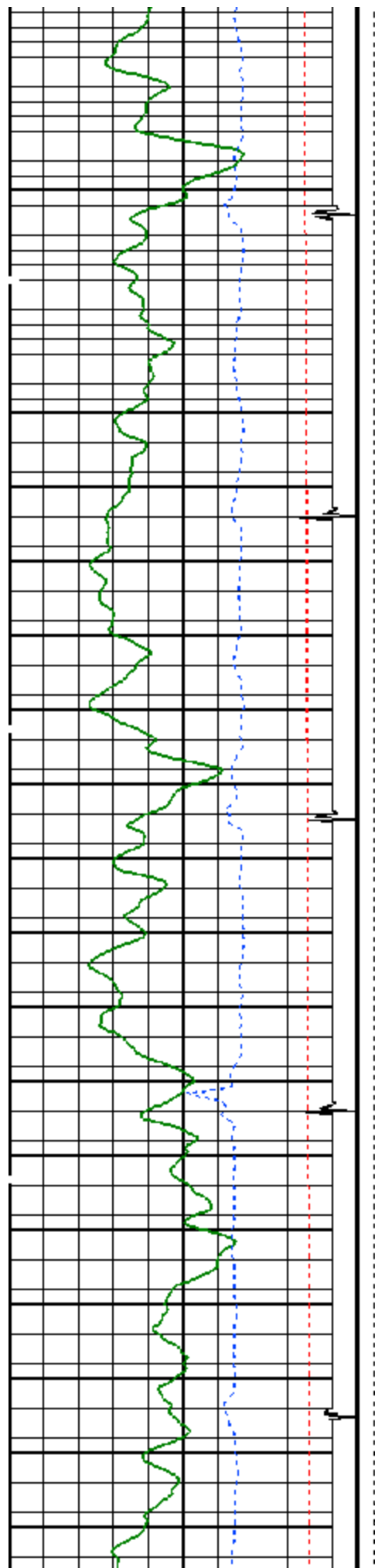
GOBO

CBL

CBL

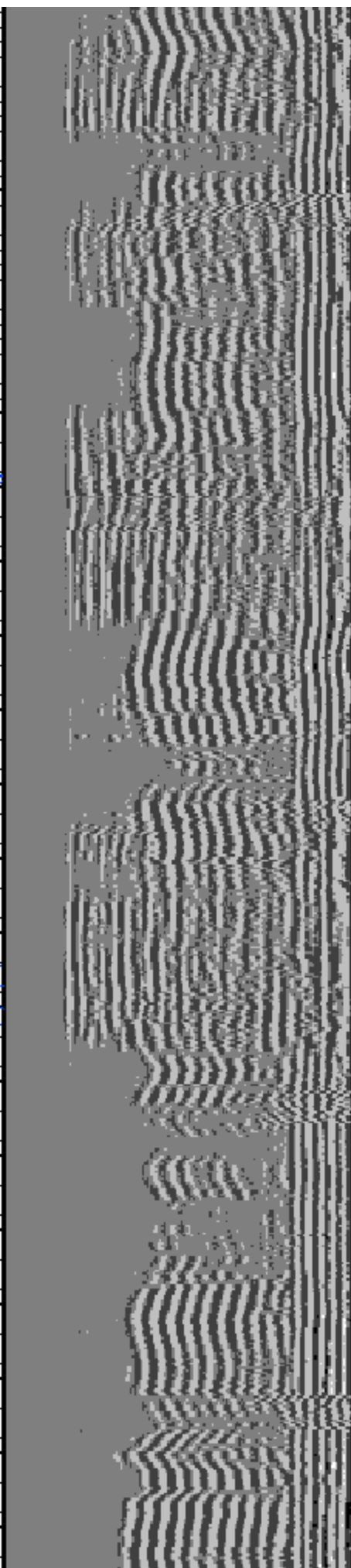
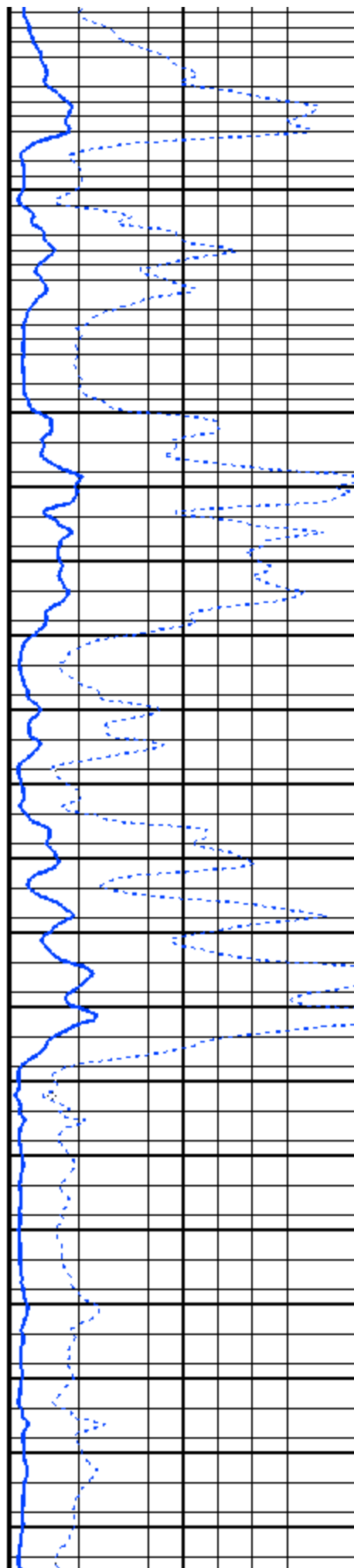
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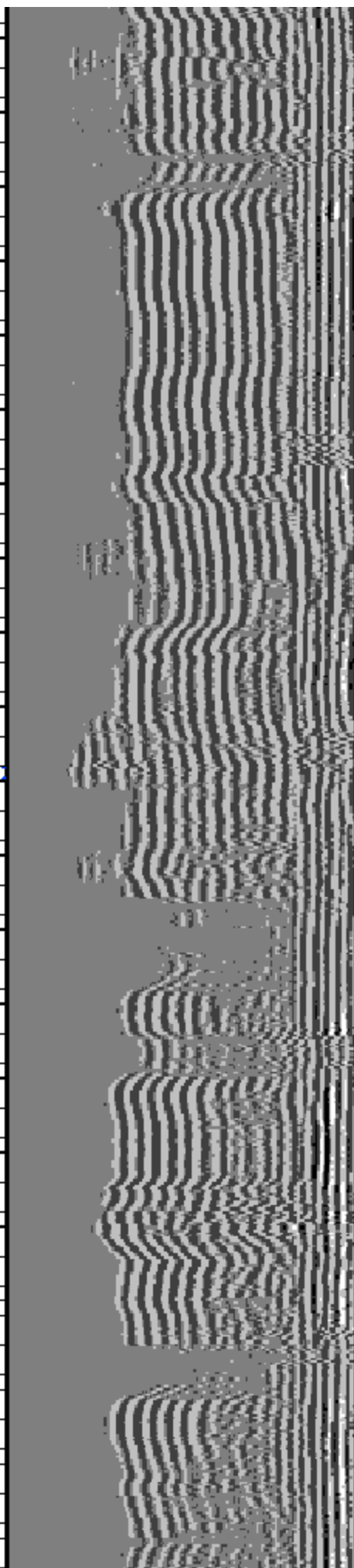
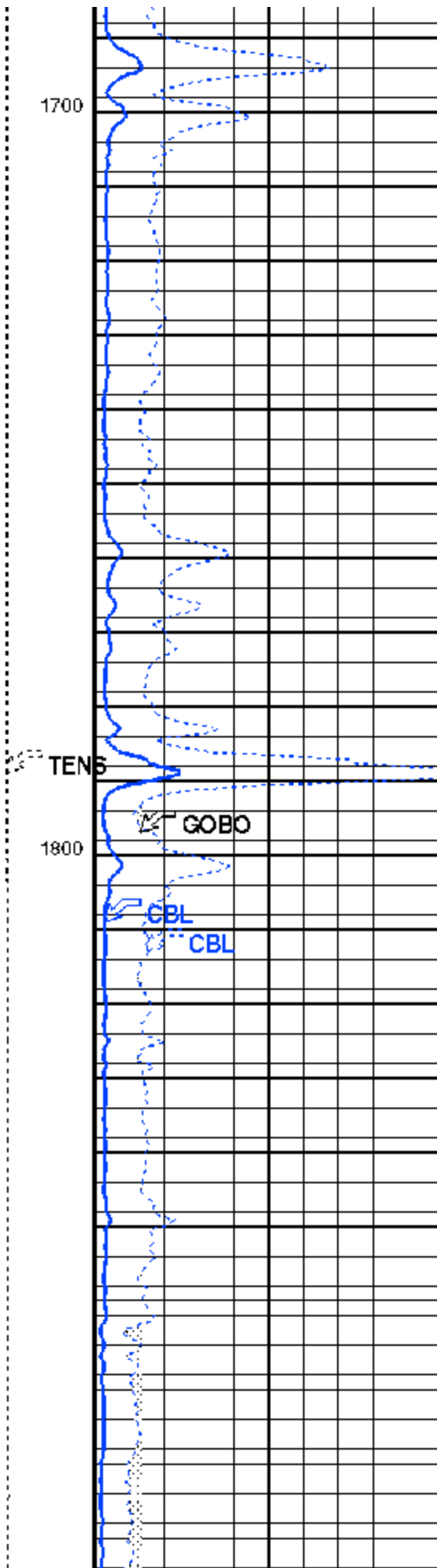
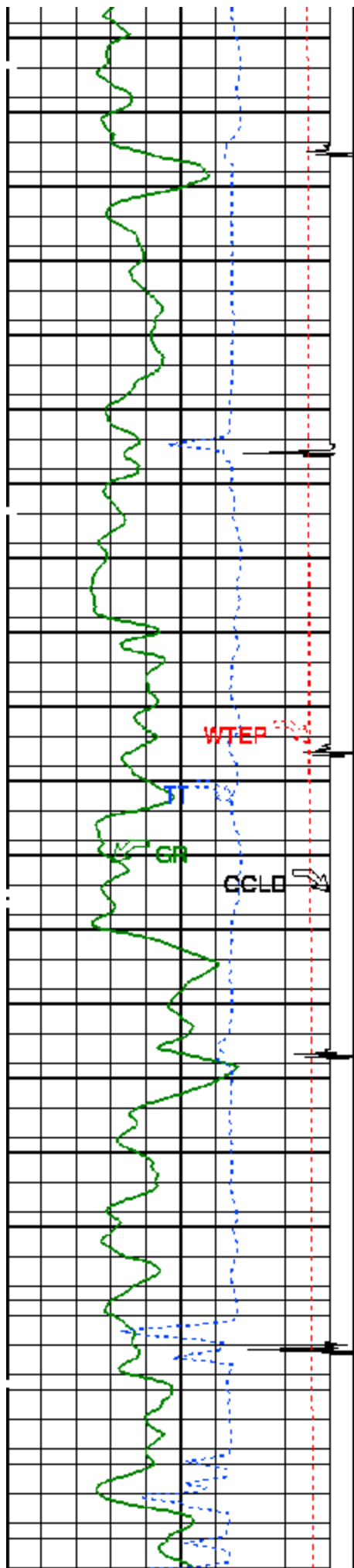


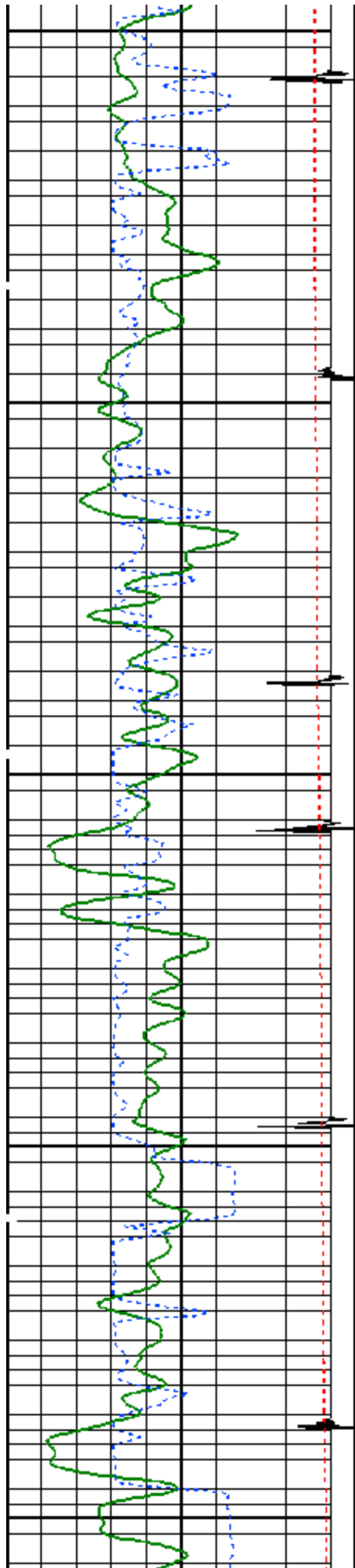


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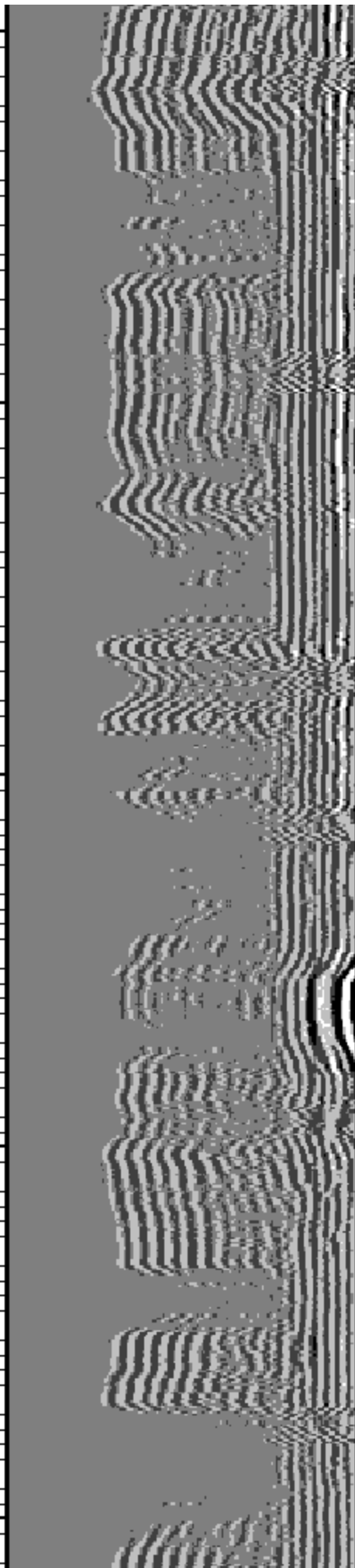
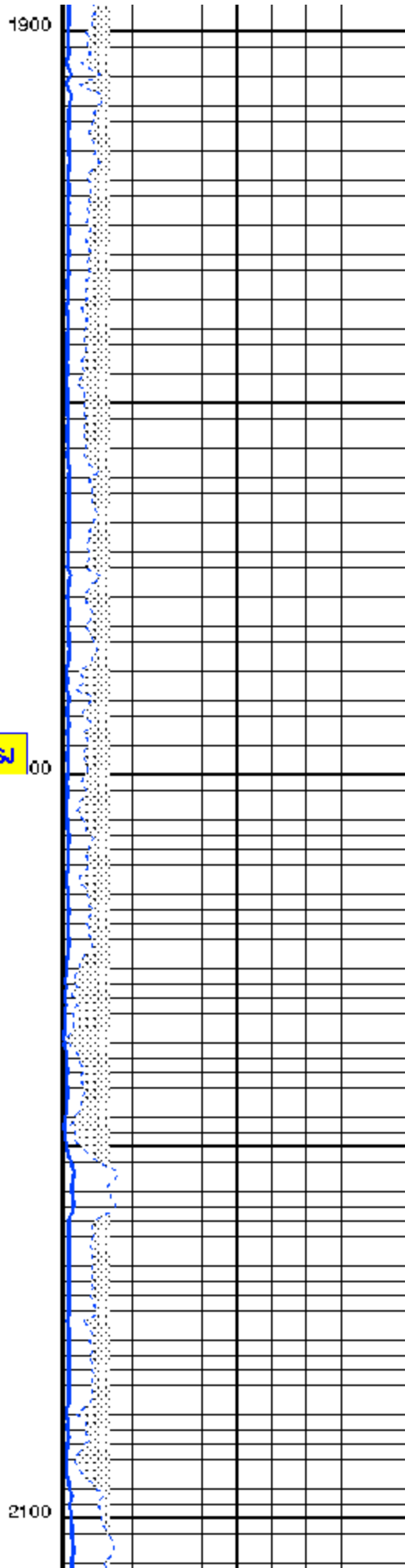
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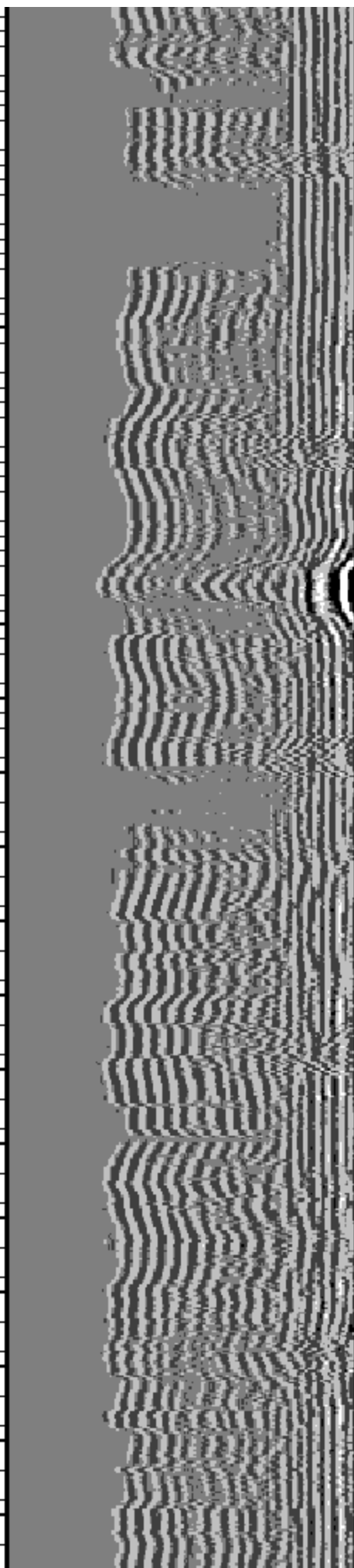
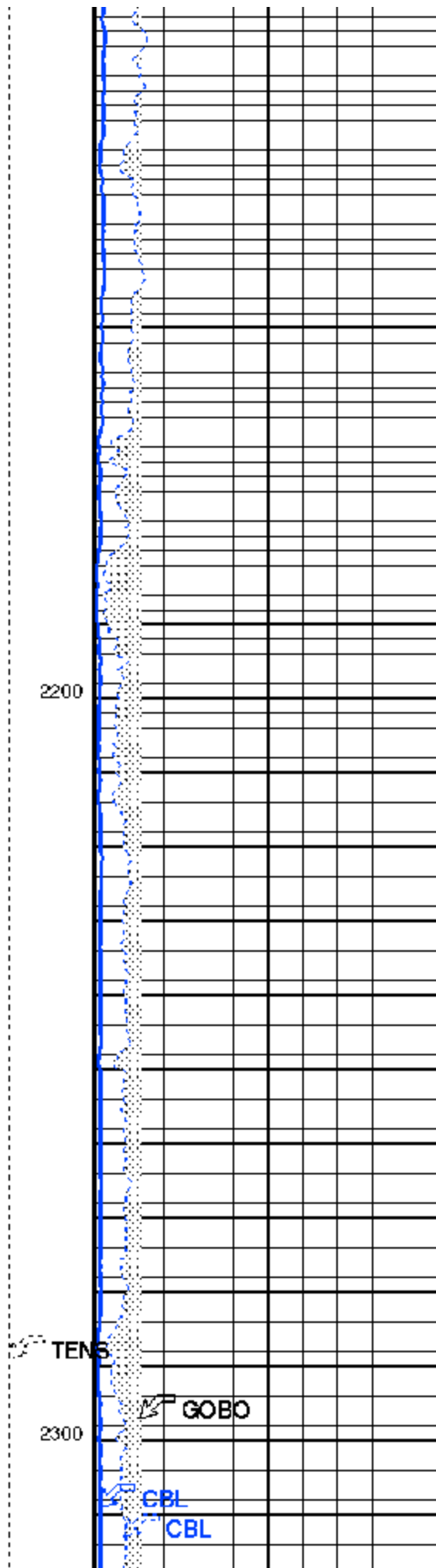
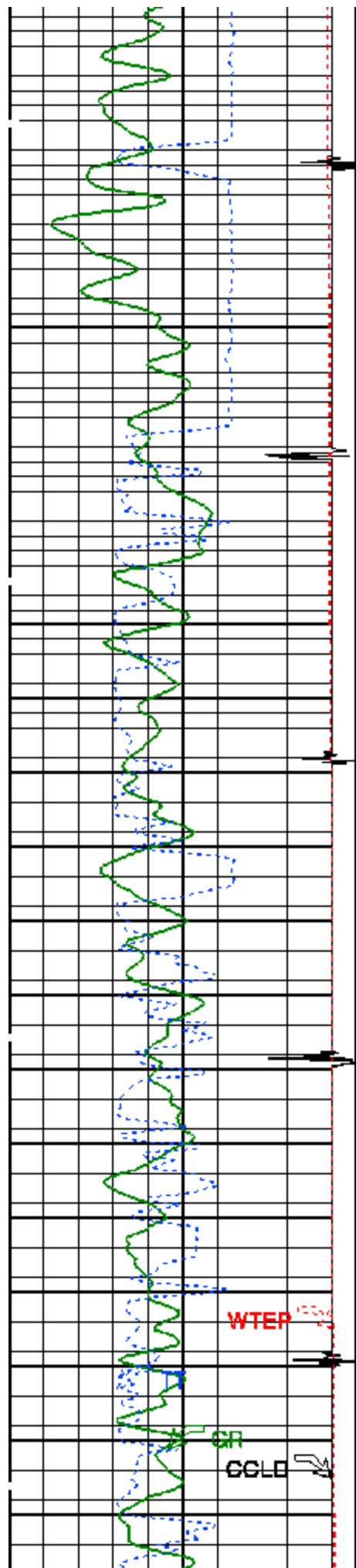


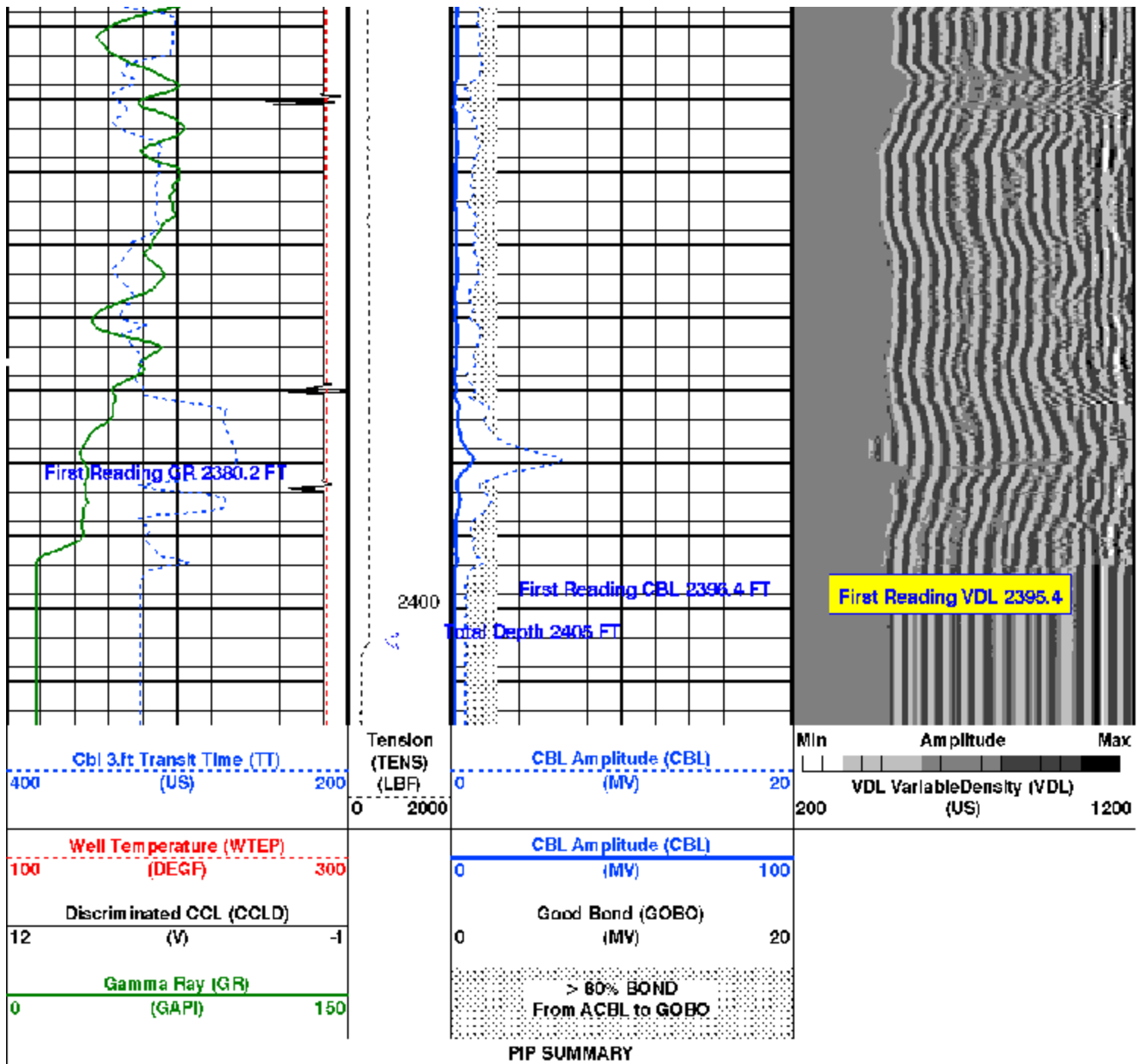




200







## 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	238.050 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	352.050 US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20 MV
CB5G	CBL Gate Width	40 US

SCC	SCC Rate Width	75	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	71	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	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	DB/F
FCF	CBL Fluid Compensation Factor	0.930928	
GOBO	Good Bond	2.63842	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	181.058	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	13.848	DB/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)	212	DEGF
CSID	Casing Size I.D.	4.892	IN
GCSE	Generalized Calliper 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	
PEPO	PEMS Tool position on CAN	2	
PCCG	PEMS CCL Gain	DB12	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
ALTDPCAN	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
PEVSADP	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	2466.00	FT
TDL	Total Depth - Logger	-50000.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

### Output DLIS Files

DEFAULT SCMT\_PSP\_004LUP FN:3 PRODUCER 08-Sep-2008 12:14

**Schlumberger**

**REPEAT PASS**

MAXIS Field Log

DEFAULT

SCMT\_PSP\_006LUP

FN:5

PRODUCER

08-Sep-2008 12:56

306.0 FT

93.0 FT

# OP System Version: 15C0-309

MCM

SCMT-CA

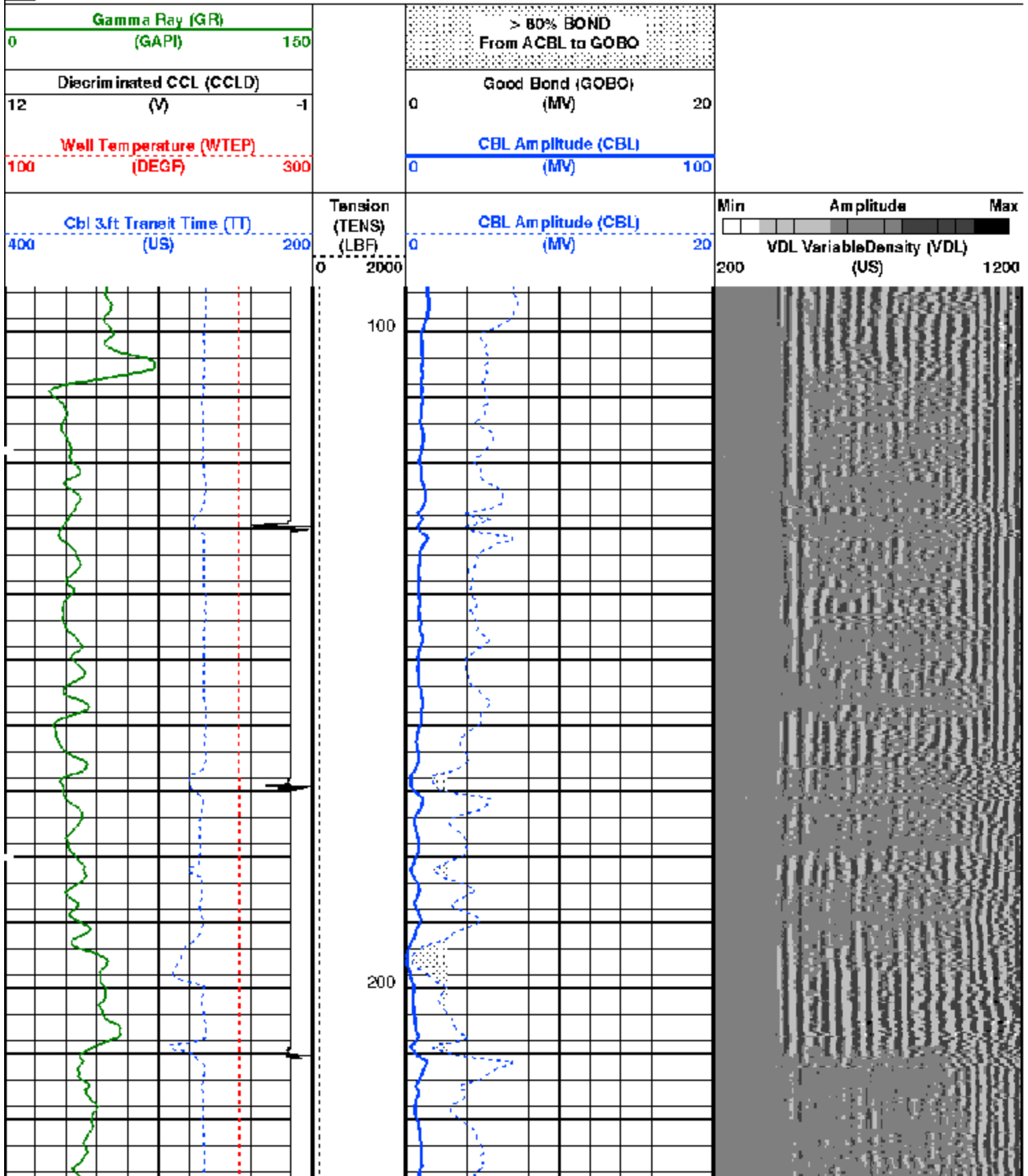
SRPC-3582-Q1\_2008\_OP15

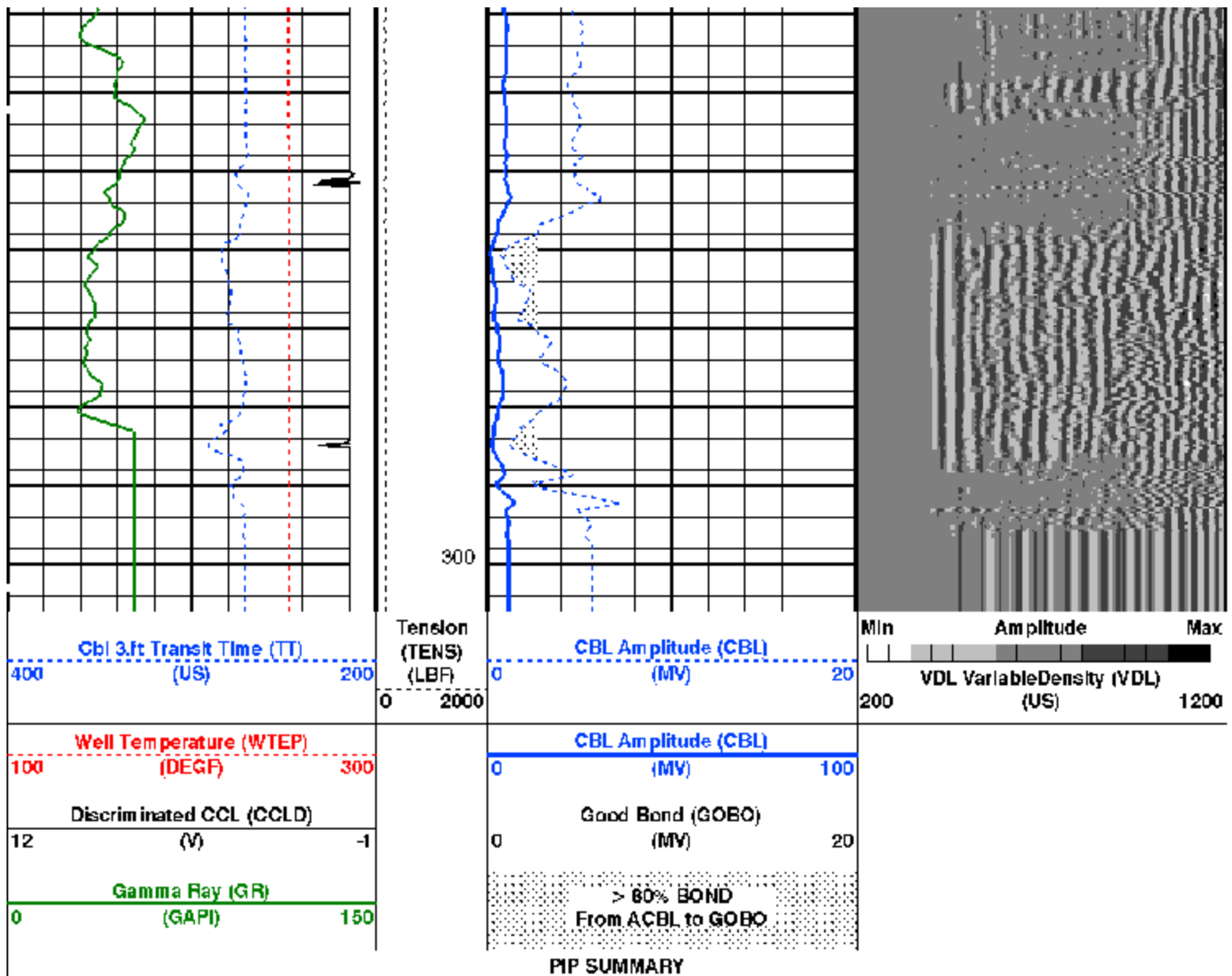
PSPT-A/B

SRPC-3582-Q1\_2008\_OP15

## PIP SUMMARY

Time Mark Every 60 S





Time Mark Every 60 S  
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## OP System Version: 15C0-309

MCM

SCMT-CA SRPC-3582-Q1\_2008\_OP15 PSPT-A/B SRPC-3582-Q1\_2008\_OP15

### Parameters

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SCMT-CA: Slim Cement Mapping Tool, 1-11/16 OD		
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CB3G	SCMT CBL 3 ft Peak Detection T0 Delay and Noise Gate	236.050 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	352.050 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
CMTC	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	DB/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	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
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MMSA	MAP Minimum Sonic Amplitude	7.35072	MV
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BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
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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 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	68	DEGF
System and Miscellaneous			
ALTOPCHAN	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
RY	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	FT
TDD	Total Depth - Driller	2466.00	FT
TDL	Total Depth - Logger	2405.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

### Output DLIS Files

DEFAULT SCMT\_PSP\_008LUP FN:5 PRODUCER 08-Sep-2008 12:58

Company: GENESIS GAS & OIL, LLC

**Schlumberger**

Well: FLETCHER GULCH 4-24

Field: WILDCAT

County: RIO BLANCO

State: COLORADO

CEMENT BOND LOG

GAMMA RAY

COLLARS/PRESSURE/TEMPERATURE