Schlumberger

Company: **BILL BARRETT CORPORATION**

Well: **BBC 42D-23-692**

Field: **MAMM CREEK**

County: **GARFIELD** State: **COLORADO**

CEMENT BOND LOG
CBL - VDL
GAMMA RAY - CCL

County: GARFIELD
Field: MAMM CREEK
Location: SHL: 2302' FNL & 204' FEL
Well: BBC 42D-23-692
Company: BILL BARRETT CORPORATION

LOCATION

SHL: 2302' FNL & 204' FEL
BHL: 1510' FNL & 664' FWL

Elev.: K.B. 5862.00 ft
G.L 5840.00 ft
D.F. 5861.00 ft

Permanent Datum: GROUND LEVEL Elev.: 5840.00 ft
Log Measured From: KELLY BUSHING 22.00 ft above Perm. Datum
Drilling Measured From: KELLY BUSHING

API Serial No.	Section	Township	Range
05-045-17691 0000	23	6S	92W

		Run 1	Run 2	Run
PVT DATA	Oil Density			
	Water Salinity			
	Gas Gravity			
	Bo			
	Bw			
	1/Bg			
	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		15-Jul-2009						
Run Number		1						
Depth Driller		7770 ft						
Schlumberger Depth		7663 ft						
Bottom Log Interval		7660.3 ft						
Top Log Interval		620 ft						
Casing Fluid Type		FRESH WATER						
Salinity								
Density		8.35 lbm/gal						
Fluid Level		22 ft						
BIT/CASING/TUBING STRING								
Bit Size		7.875 in						
From		22 ft						
To		7770 ft						
Casing/Tubing Size		4.500 in						
Weight		11.6 lbm/ft						
Grade								
From		22 ft						
To		7770 ft						
Maximum Recorded Temperatures		207 degF						
Logger On Bottom	Time	15-Jul-2009	3:40					
Unit Number	Location	411	GRAND JUNCTION, CO					
Recorded By		M. ARNETT/ S. CROSS						
Witnessed By		UNATTENDED						

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								

3

Run 4

DEPTH SUMMARY LISTING

Date Created: 15-JUL-2009 1:46:16

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-C	Type:	1-25ZT
Serial Number:	3775	Serial Number:	5032	Serial Number:	
Calibration Date:	20-JAN-2009	Calibration Date:	18-JUN-2009	Length:	13130 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	1159		
Calibration Cable Type:	1-25ZT	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	-5	Calibration RMS:	8	Rig Type:	LAND
Wheel Correction 2:	-3	Calibration Peak Error:	15		

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	COMPENSATED PHOTO DENSITY
Reference Log Run Number:	ONE
Reference Log Date:	11-JUN-2009
Subsequent Trip Down Log Correction:	9.00 FT

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES APPLIED
2. IDW USED AS PRIMARY DEPTH REFERENCE, Z-CHART USED AS SECONDARY
3.
4.
5.
6.

OTHER SERVICES1	OTHER SERVICES2
OS1: NONE	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
THIS IS A SUBSEQUENT RUN IN WELL	
LOG CORRELATED TO: COMPENSATED PHOTO DENSITY, DATED 17-JUN-2009	
TOOLSTRING RUN AS PER TOOLSKETCH	
JUNK BASKET RAN AS PER CLIENT REQUEST	
SCMT RAN WITH TWO CENTRALIZING GEMCOS	
WELL BUBBLING AT SURFACE, CBL NOT AFFECTED	
EXPECTED FREE PIPE CBL VALUE: 81 mV	

EXPECTED TRANSIT TIME 251 uS	
MAXIMUM RECORDED TEMPERATURE: 207DEGF	
SHORT JOINTS LOCATED AT: 73187346 FT/ 5532 5562 FT	
CRANE: 5048	
YOUR CREW: JESSE & WALEED	
THANK YOU FOR CHOOSING SCHLUMBERGER!	

RUN 1			RUN 2		
SERVICE ORDER #:	AN27-00137		SERVICE ORDER #:		
PROGRAM VERSION:	17C0-154		PROGRAM VERSION:		
FLUID LEVEL:	22 ft		FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

WITM-A
PSC_16MHZ

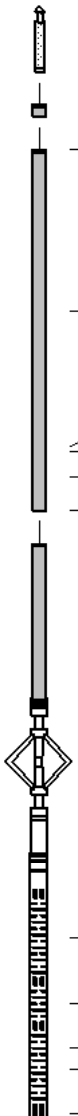
DOWNHOLE EQUIPMENT

MH-22
MH-22 — 37.9

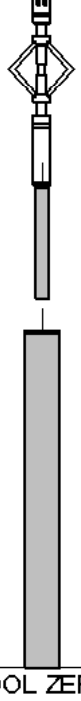
AH-38 — 36.3

PSPT-A/B — 36.0
PSC-A
PSPT-A 3779
PSTC
PBMS-A 3779
10k_Sapphire_Mano
RTD_Thermometer
GR
CCL
PBMS

SCMT-CB — 27.8
SCMC-CA
SECH-CA 8139
CMIR-AG
SCMS-CB 8171
SCMX-CA



RUN 2



AH-JB
AH-JB

7.7

HV
Tension SCMT
0.0
TOOL ZERO

MAXIMUM STRING DIAMETER 3.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN PASS

MAXIS Field Log

Company: BILL BARRETT CORPORATION **Well: BBC 42D-23-692**

Input DLIS Files

DEFAULT	SCMT_PSP_055LUP	FN:52	PRODUCER	15-Jul-2009 03:42	7715.0 FT	549.5 FT

Output DLIS Files

DEFAULT	SCMT_PSP_058PUP	FN:55	PRODUCER	15-Jul-2009 05:17	7725.0 FT	559.5 FT

OP System Version: 17C0-154

eWAFE Version: 1.139

SCMT-CB	SRPC-3821-Q2_2009_OP17	PSPT-A/B	SRPC-3821-Q2_2009_OP17

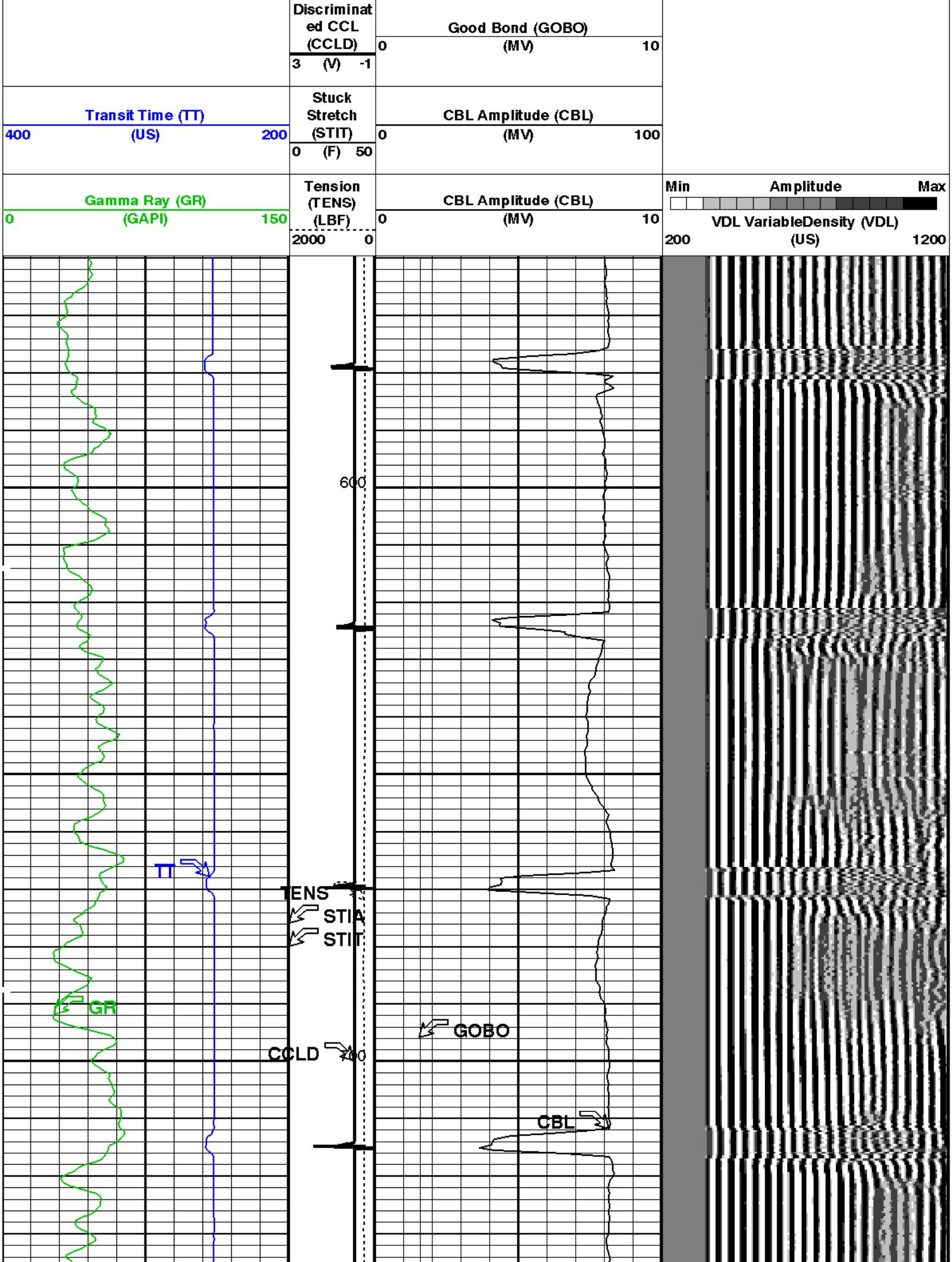
PIP SUMMARY

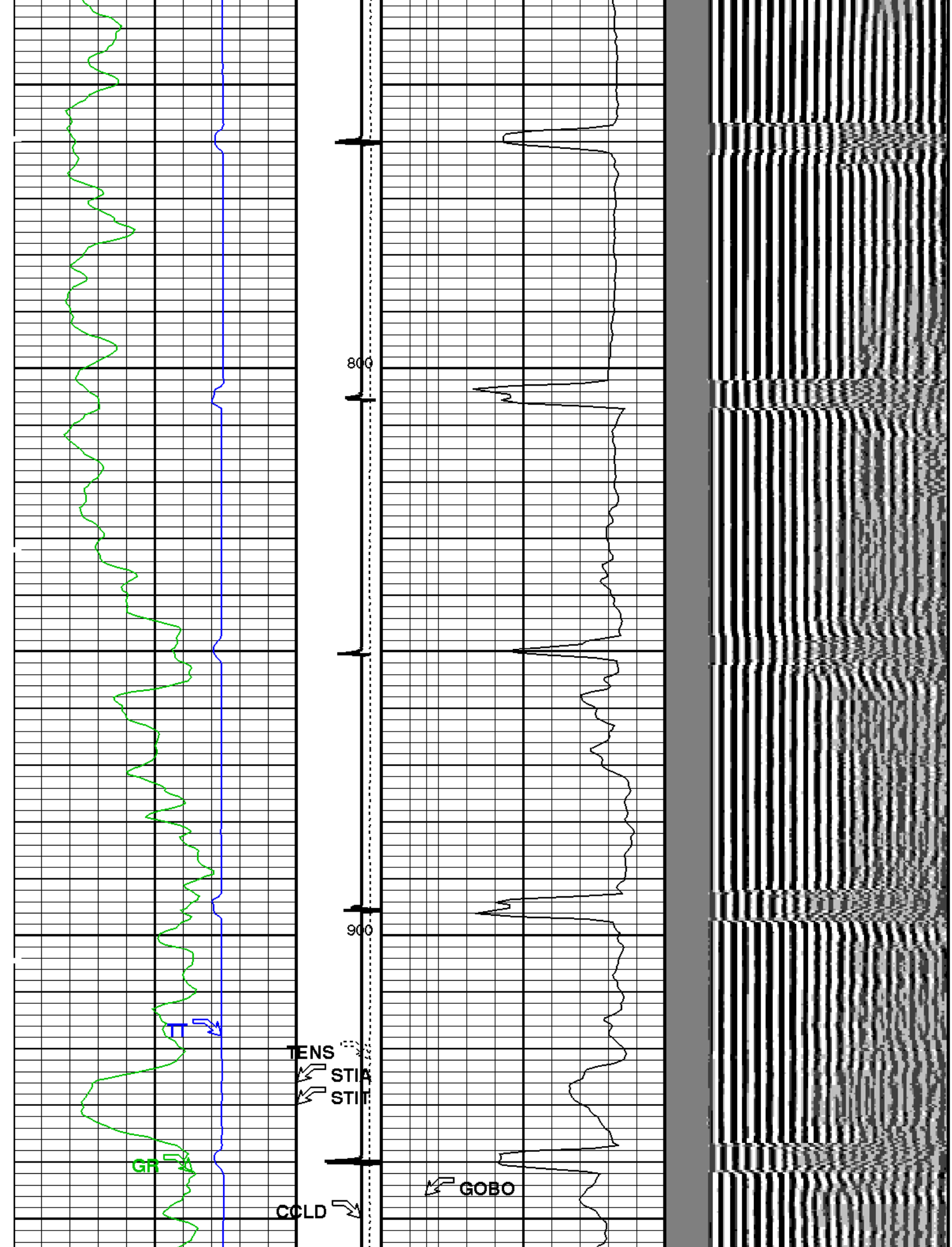
Time Mark Every 60 S

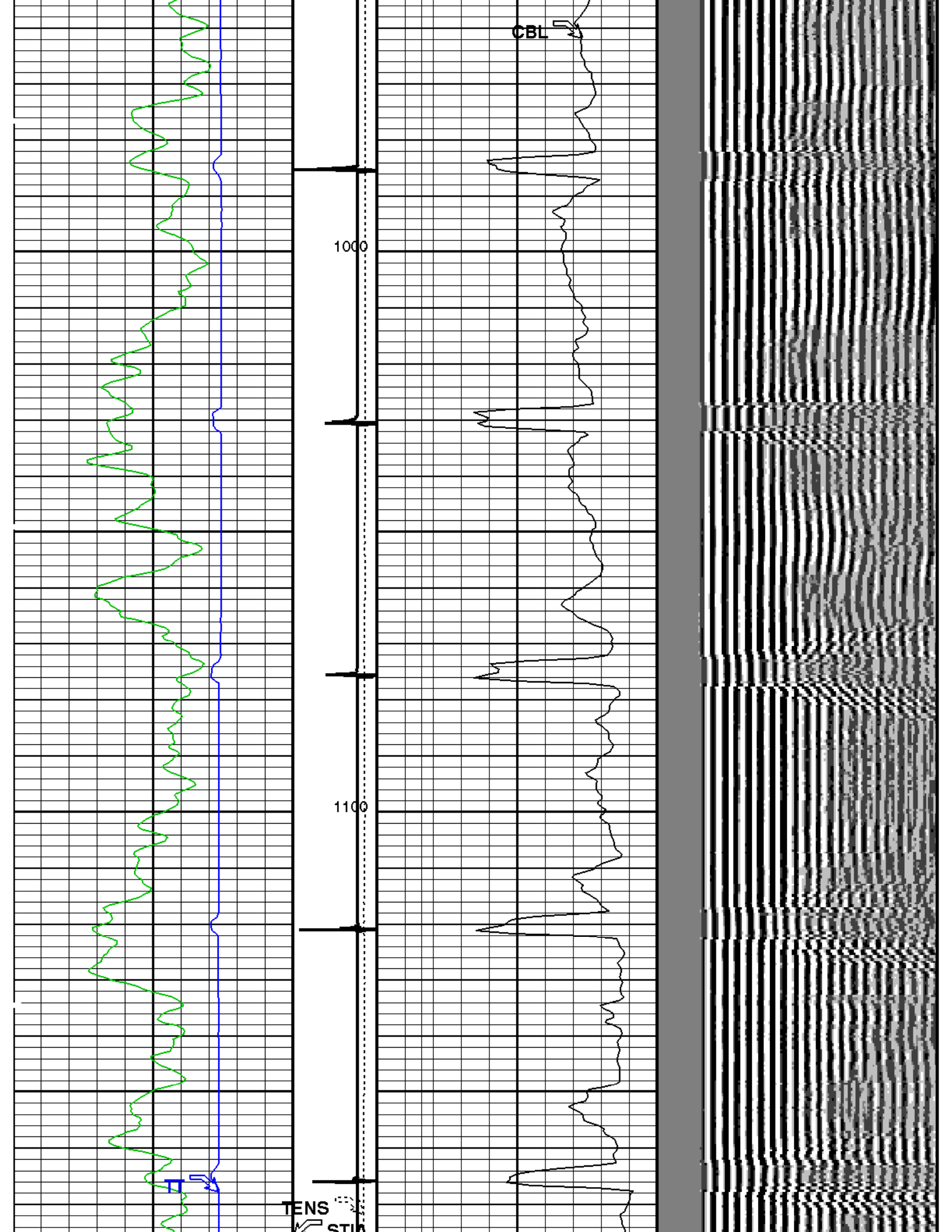
Tool/Tot. Drag From D3T to STIA

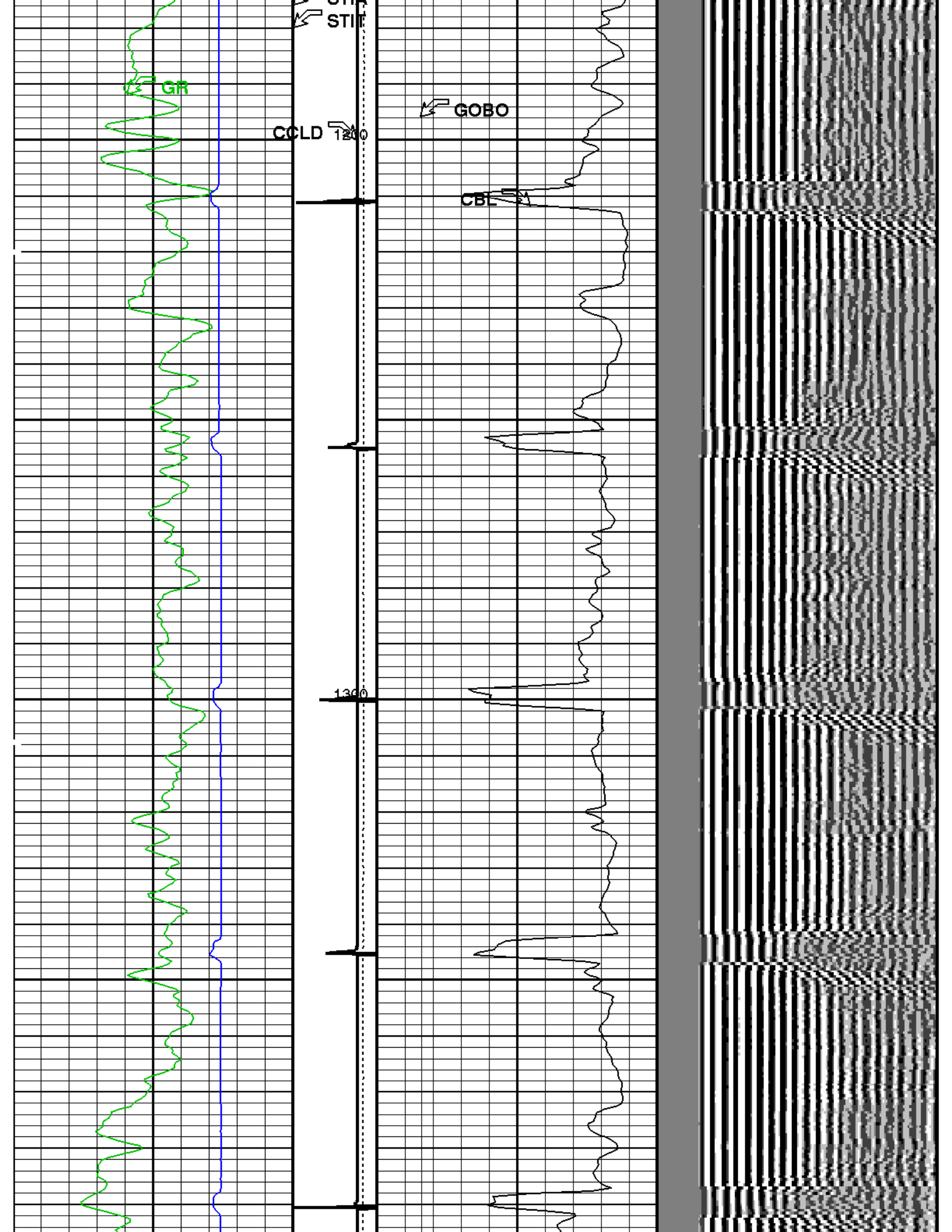
Cable Drag From STIA to STIT

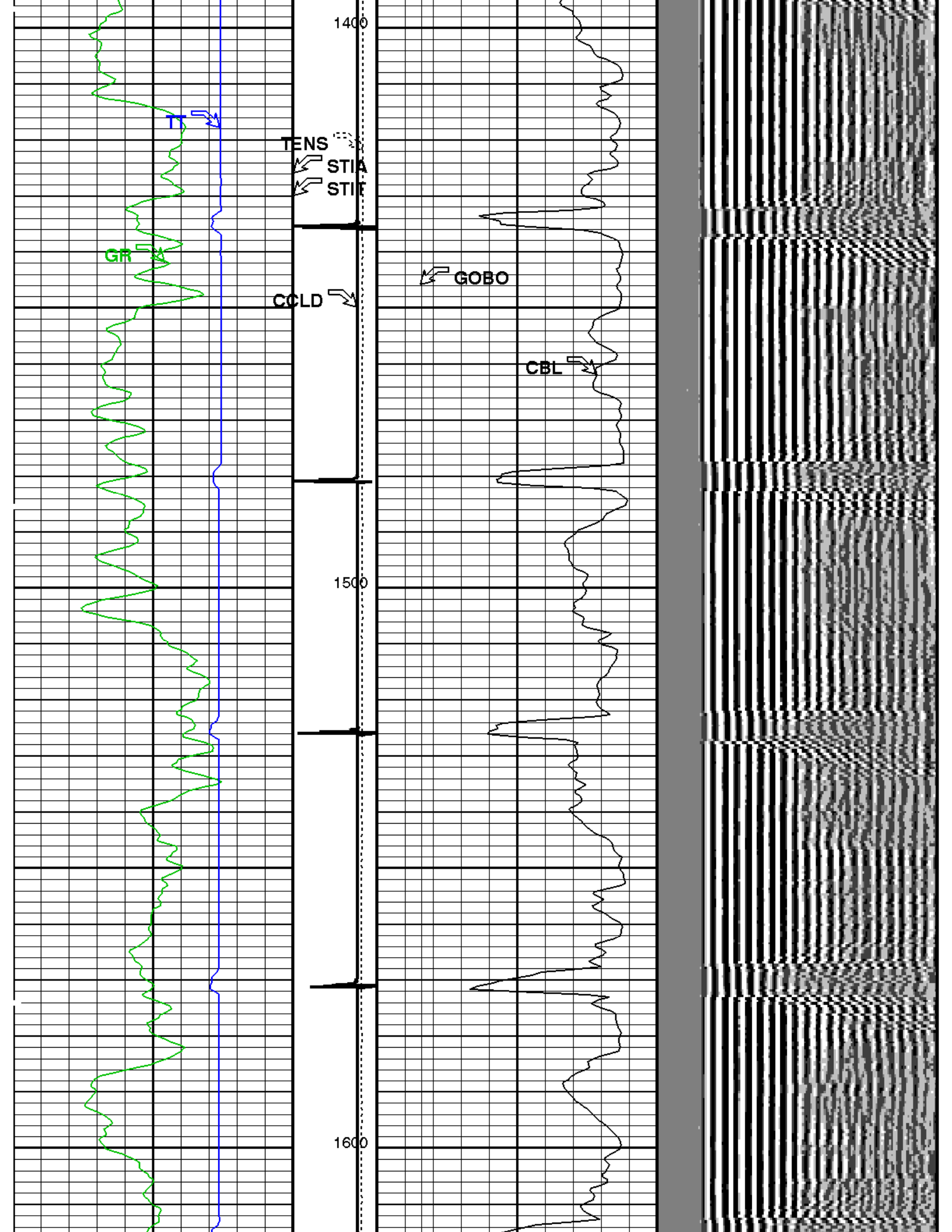
GoodBond From ACBL to GOBO

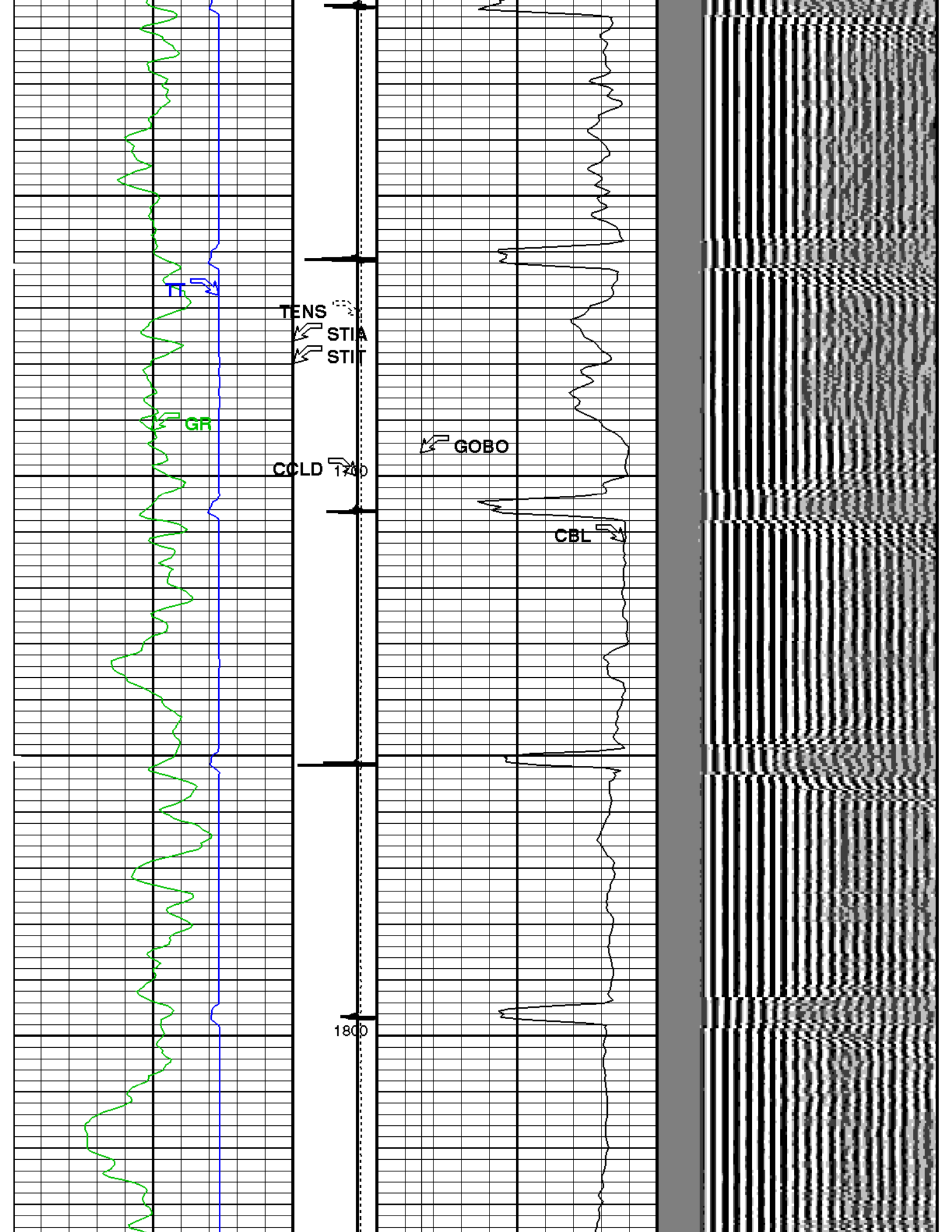

Discriminated CCL (CCLD)
3 (V) -1
Good Bond (GOBO)
0 (MV) 10
Transit Time (TT)
400 (US) 200
Stuck Stretch (STIT)
0 (F) 50
CBL Amplitude (CBL)
0 (MV) 100
Gamma Ray (GR)
0 (GAPI) 150
Tension (TENS) (LBF)
2000 0
CBL Amplitude (CBL)
0 (MV) 10
Min Amplitude Max
VDL VariableDensity (VDL)
200 (US) 1200
600
TT
TENS
STIA
STIT
GR
GOBO
CCLD
CBL

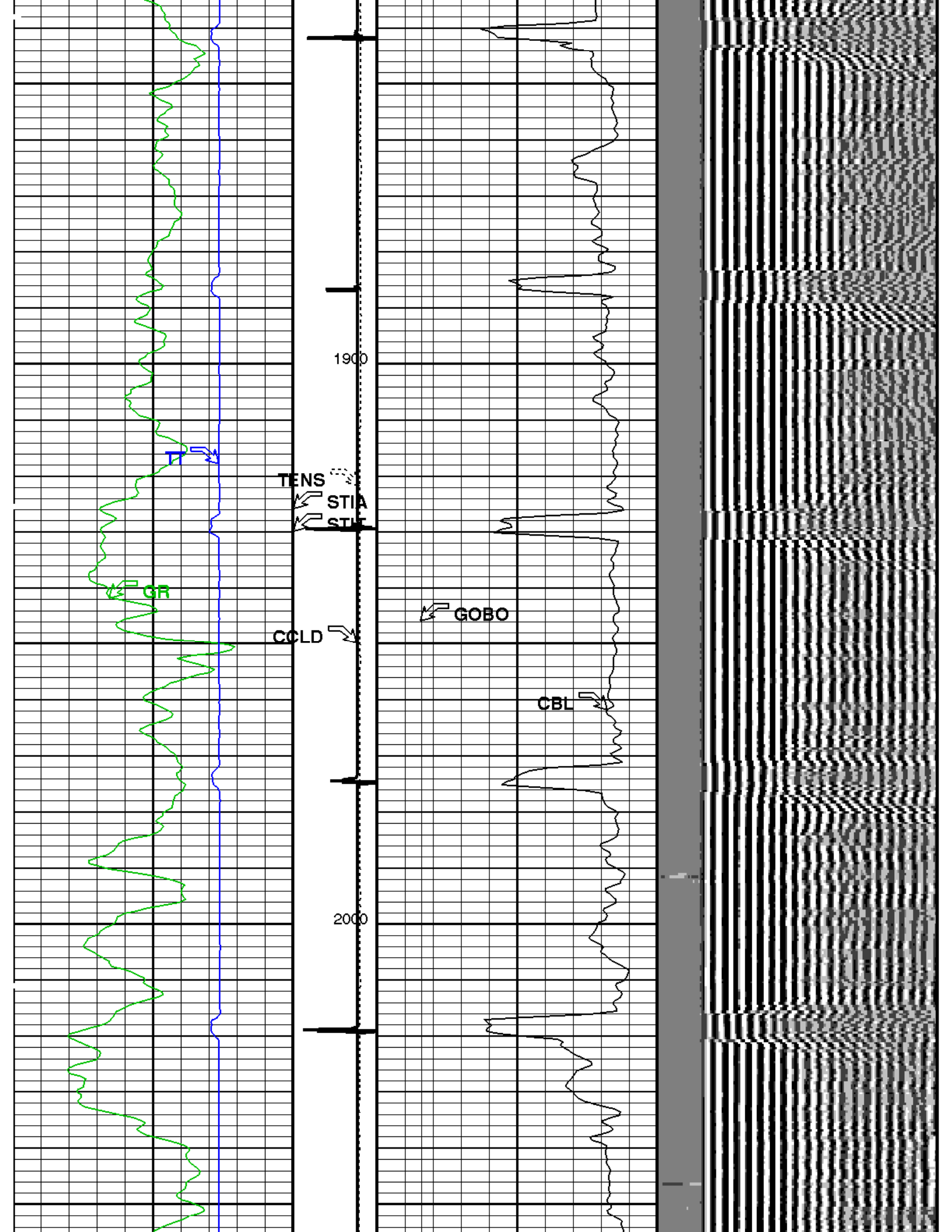

800
900
TT
TENS
STIA
STIT
GR
GOBO
CCLD

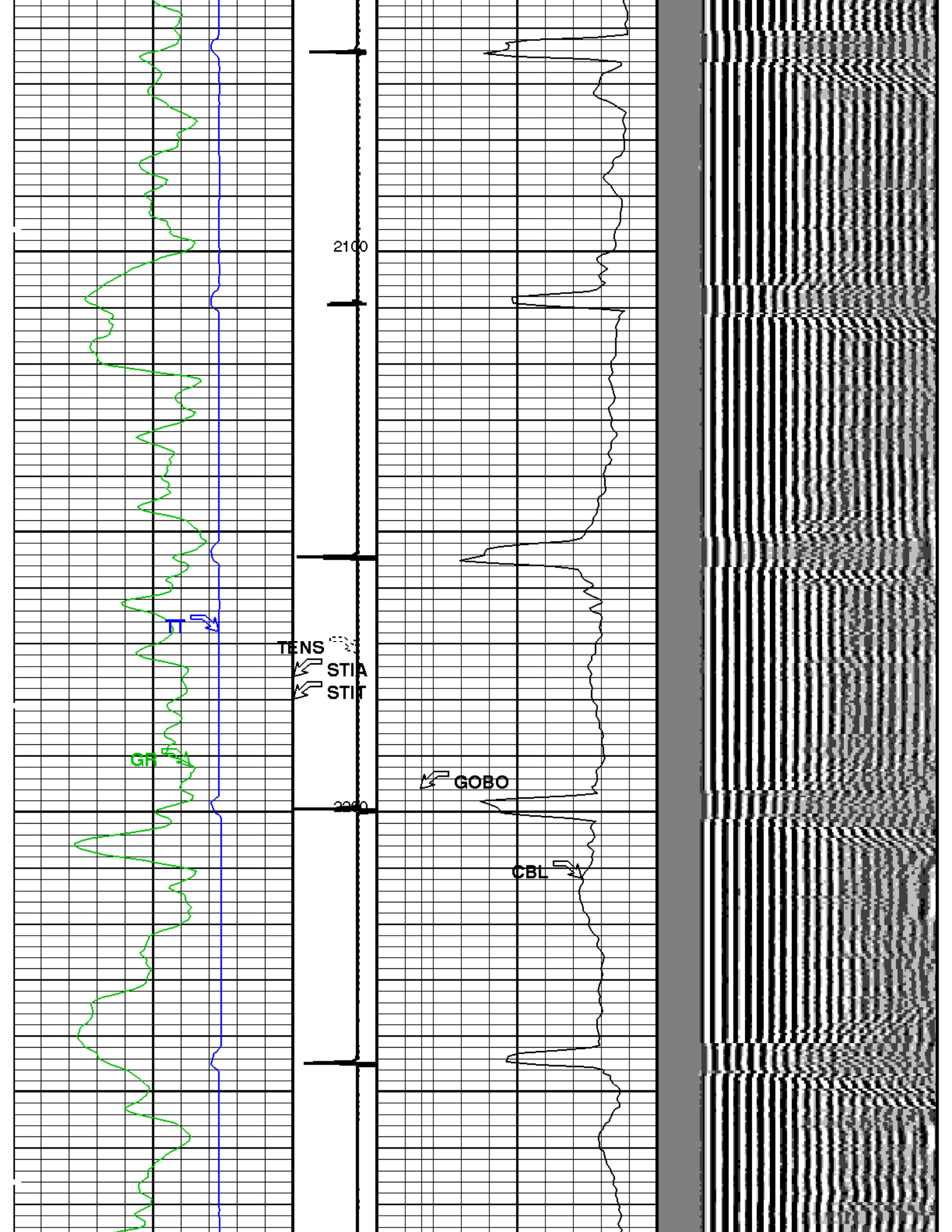

CBL
1000
1100
TENS

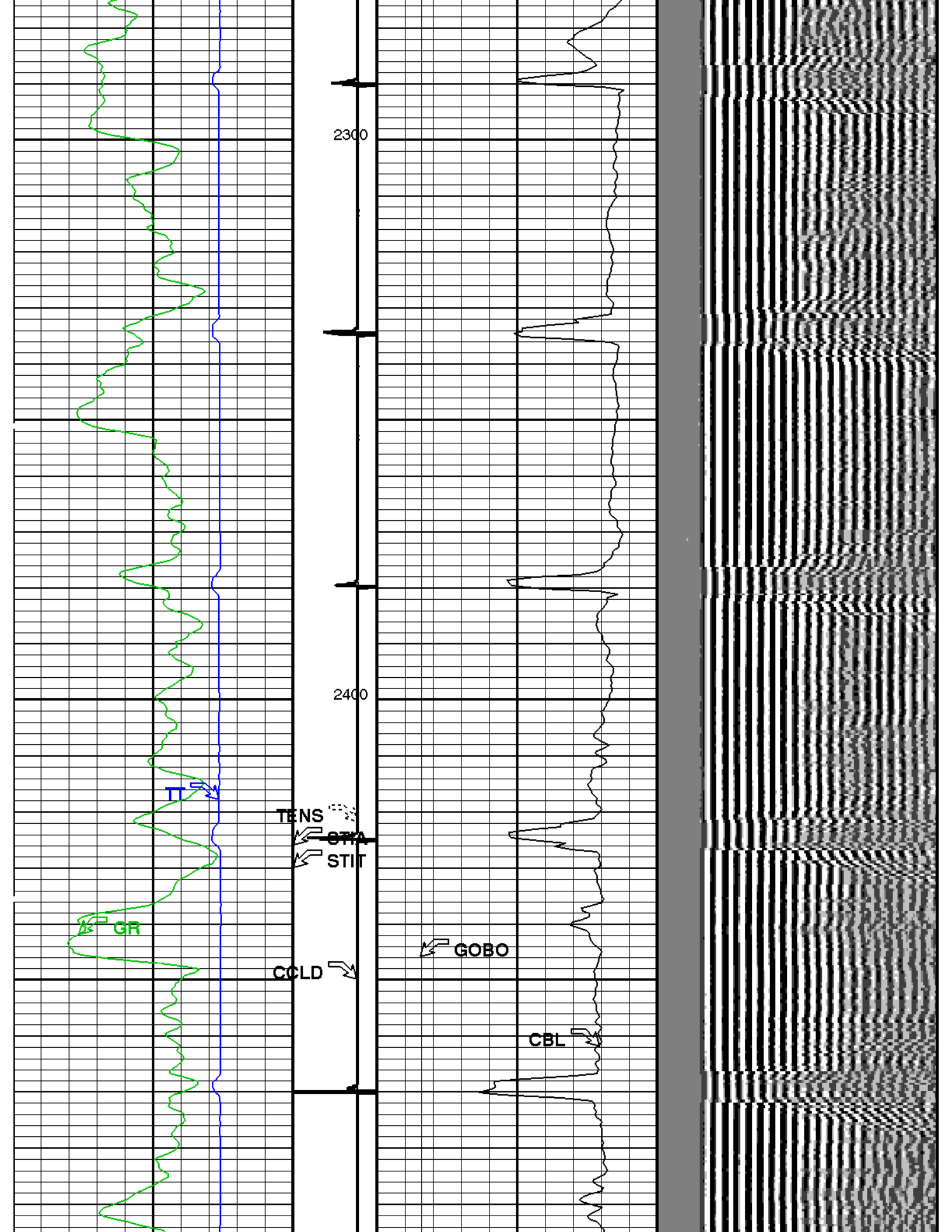

STIF
GR
GOBO
CCLD
1200
CBL
1300

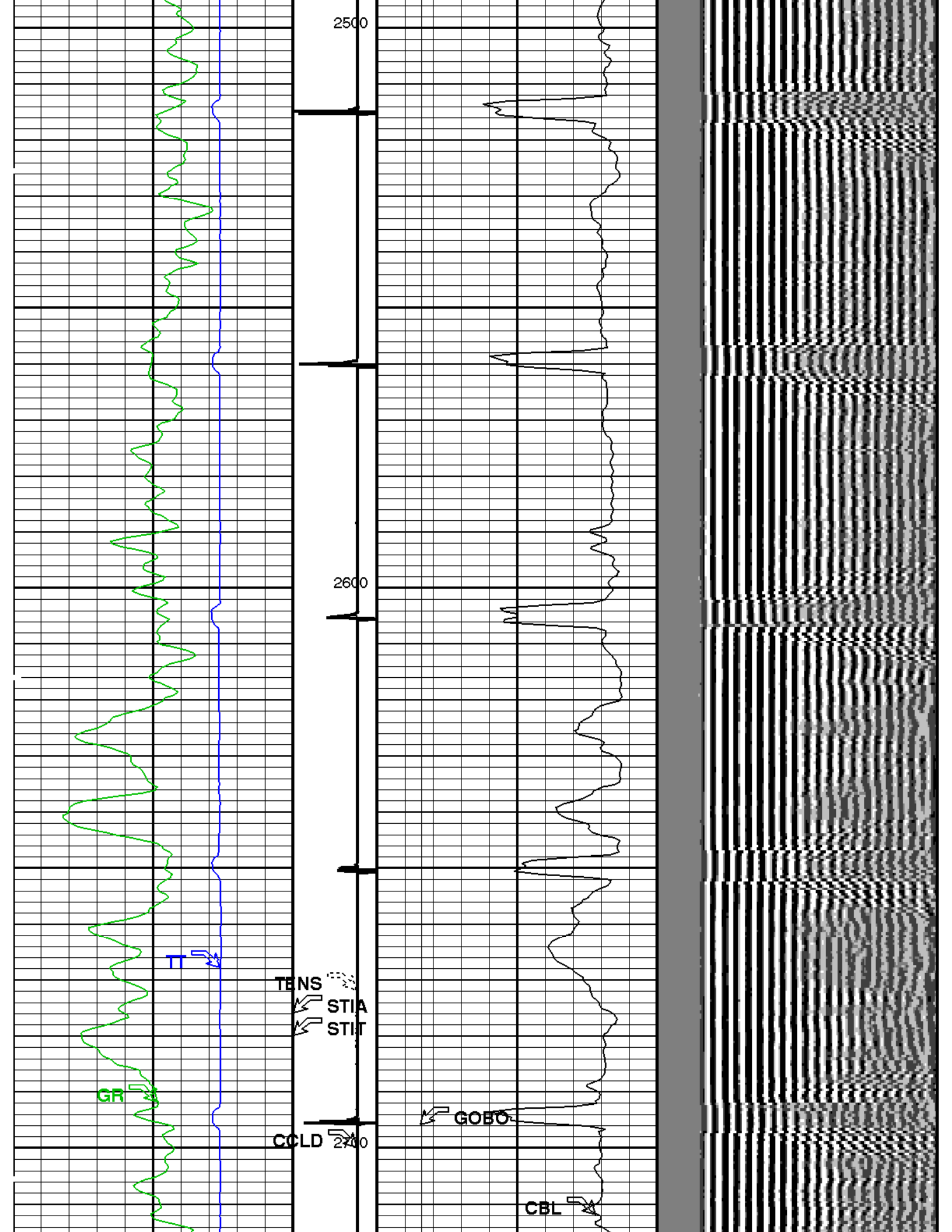

1400
TT
TENS
STIA
STIF
GR
GOBO
CCLD
CBL
1500
1600


TT
TENS
STIA
STIT
GR
GOBO
CCLD
1700
CBL
1800


1900
TT
TENS
STIA
GR
GOBO
CCLD
CBL
2000


2100
TT
TENS
STIA
STIT
GR
GOBO
CBL


2300
2400
TT
TENS
STIT
GR
GOBO
CCLD
CBL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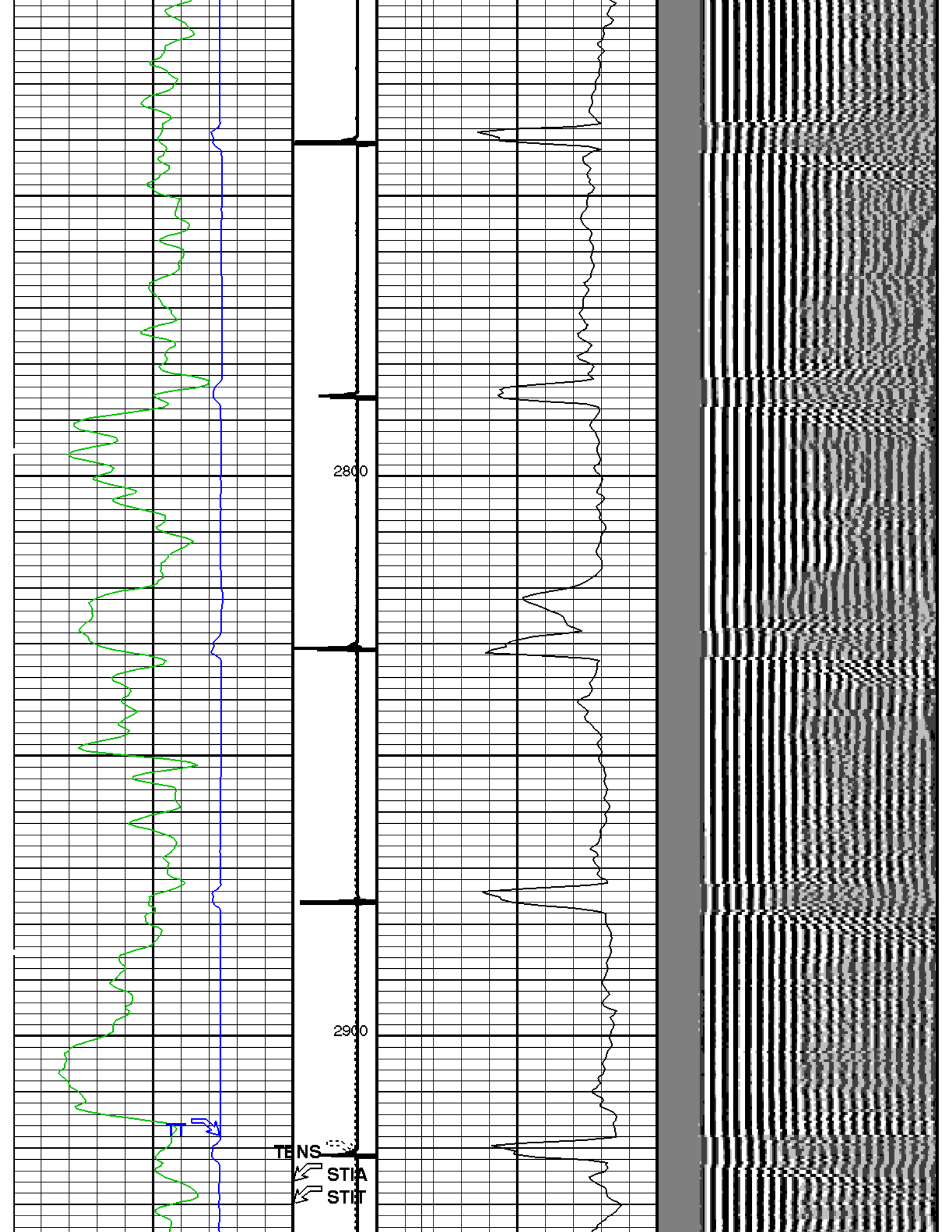
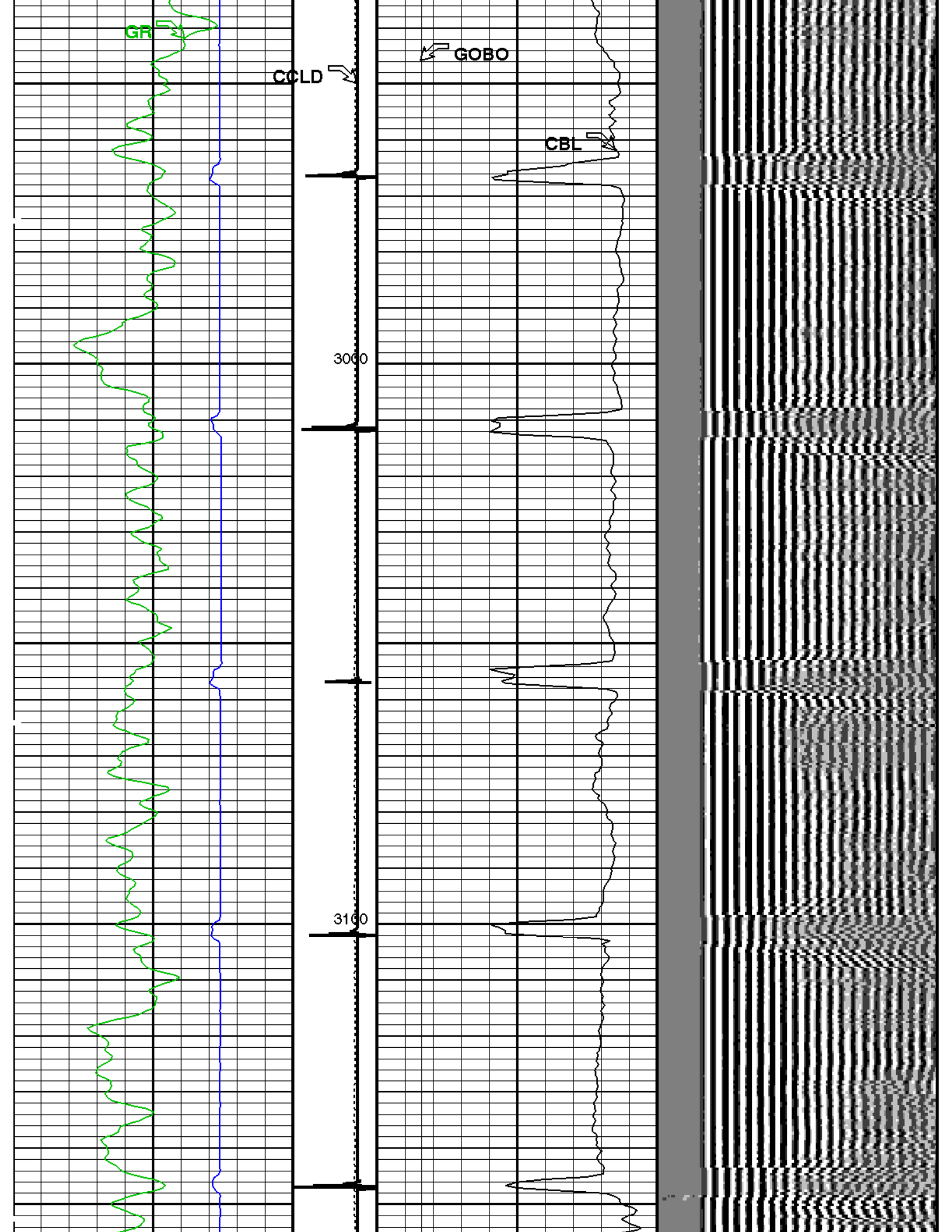
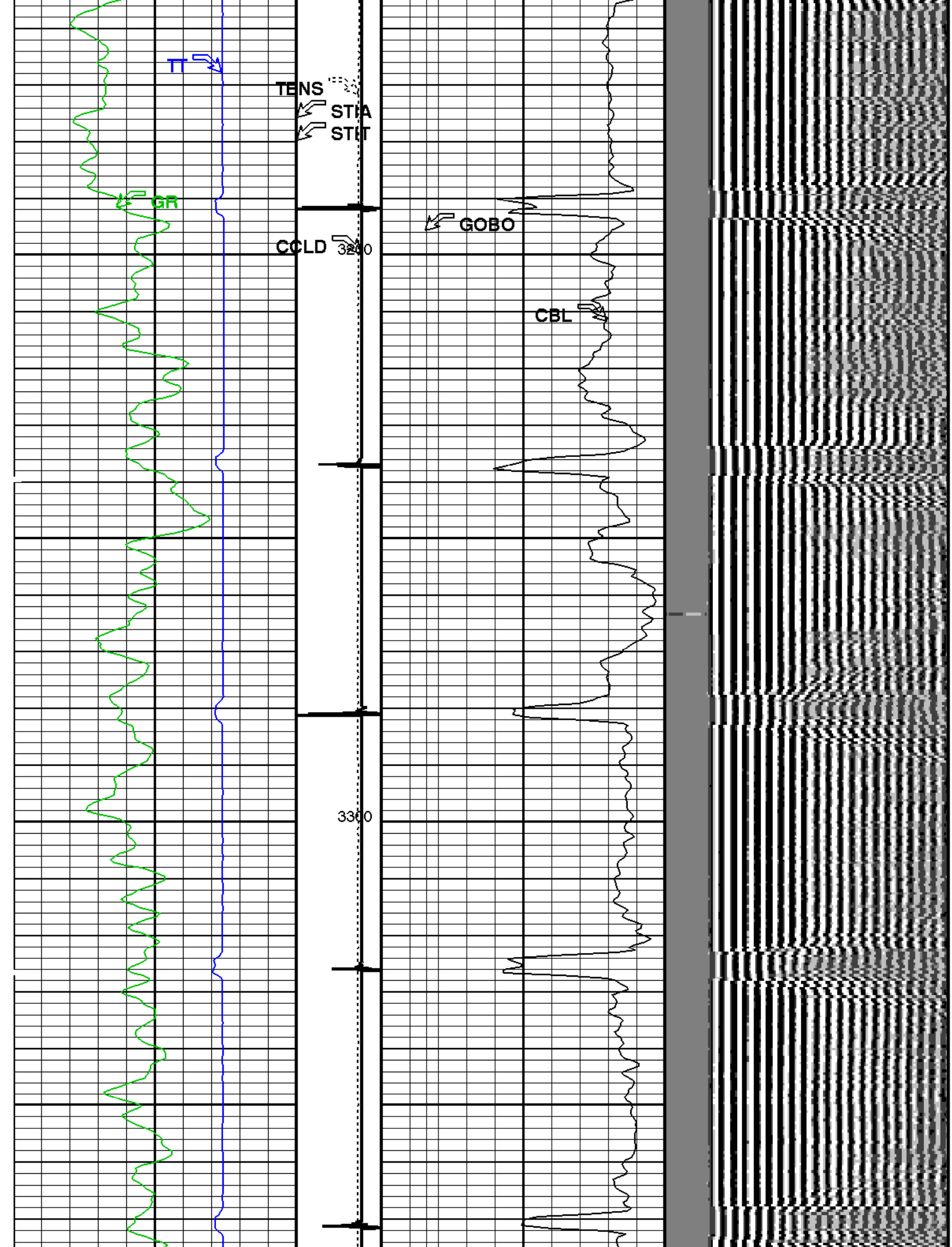
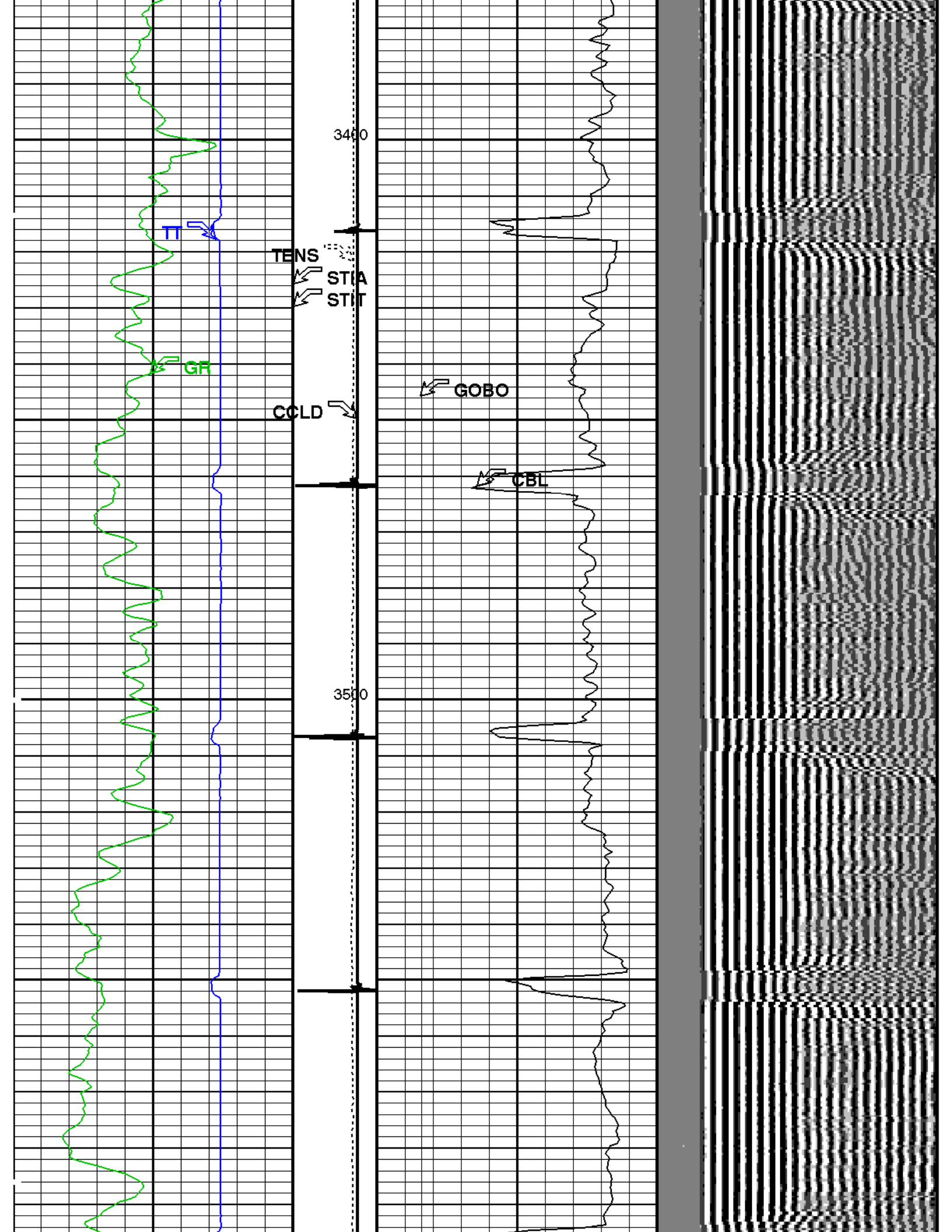
2600
TT
TENS
STIA
STIT
GR
GOBO
CCLD
2700
CBL


2800
2900
TT
TENS
STIA
STIT


GR
CCLD
GOBO
CBL
3000
3100


TT
TENS
STIA
STIT
GR
GOBO
CCLD
3200
CBL
3300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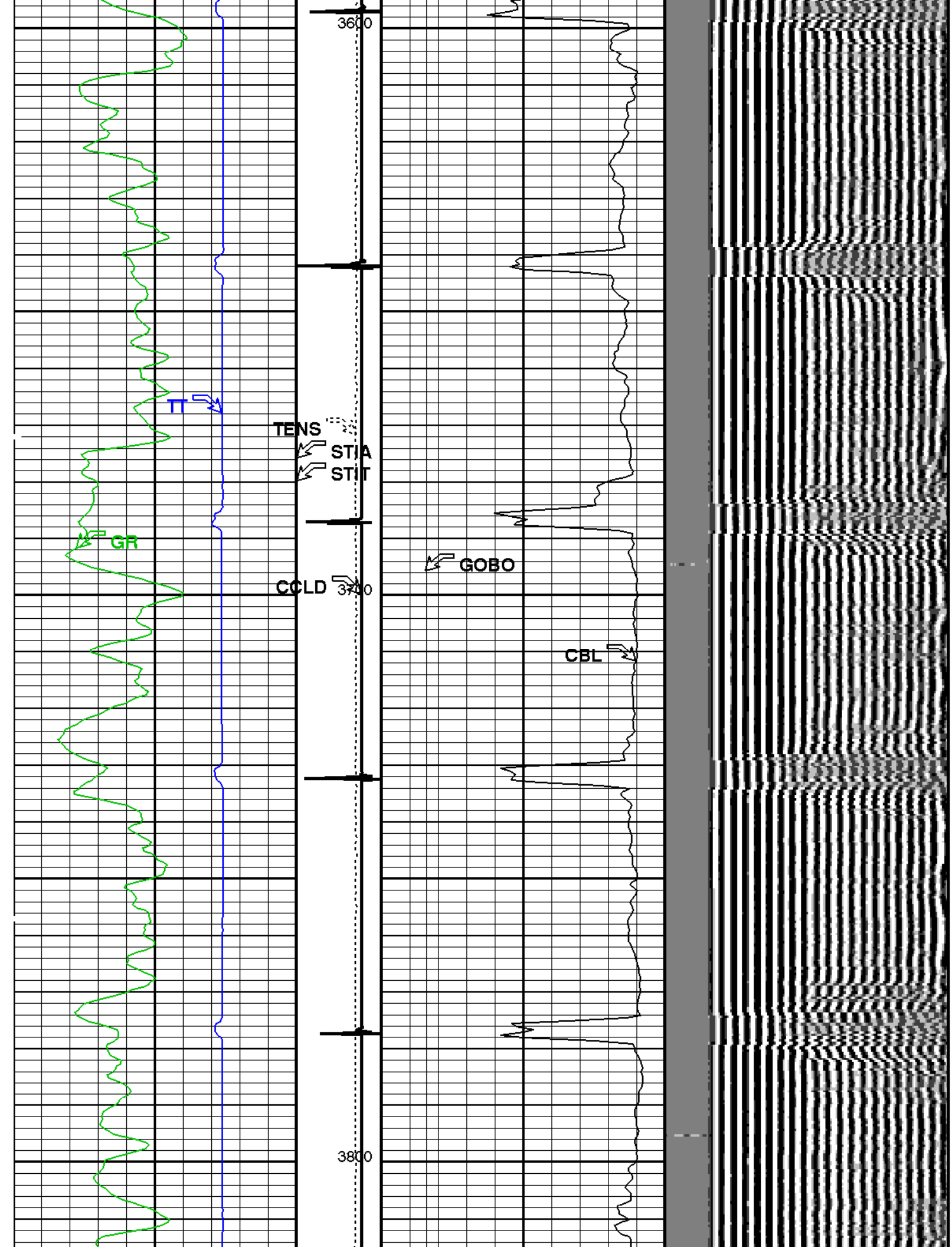
TT
TENS
STIA
STIT
GR
GOBO
CCLD
CBL
3500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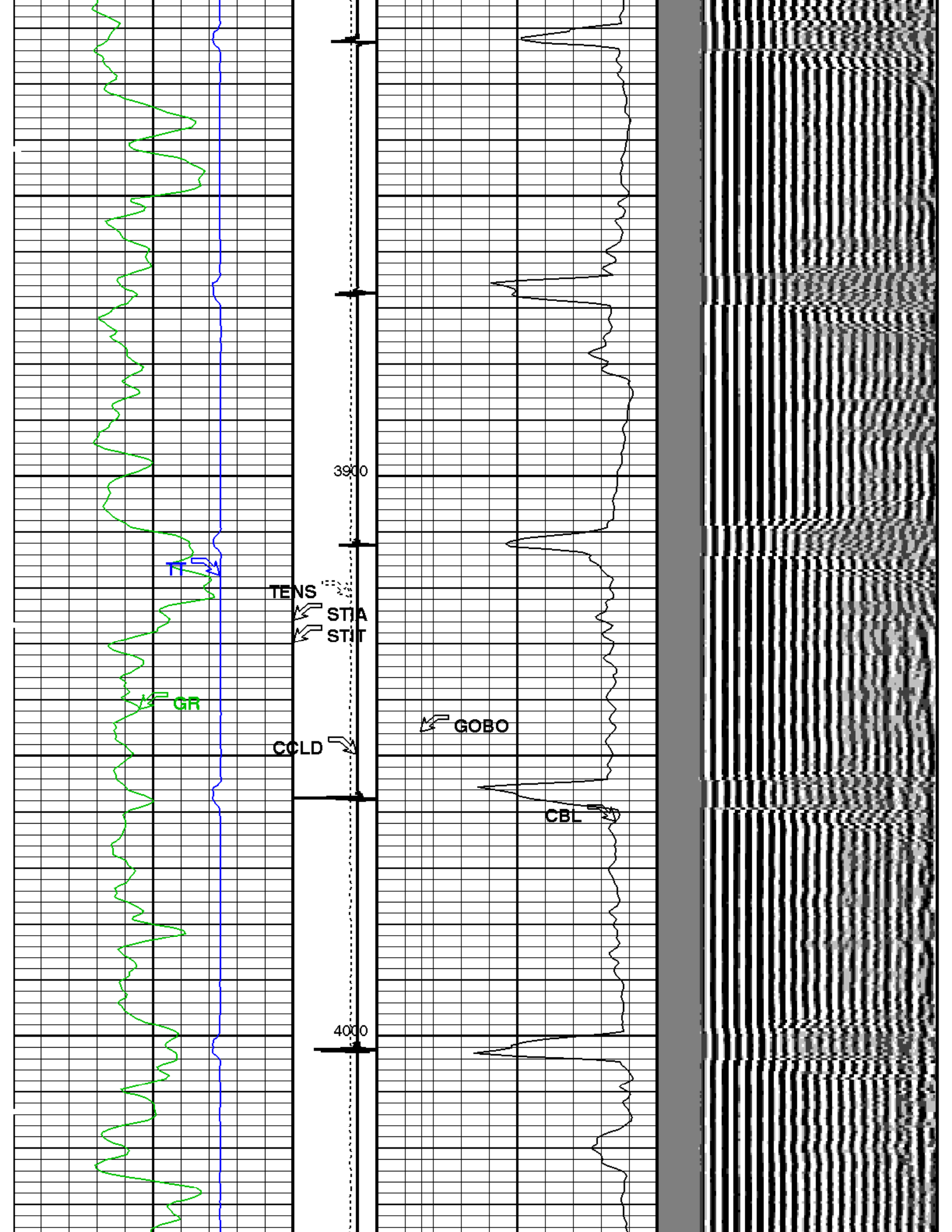
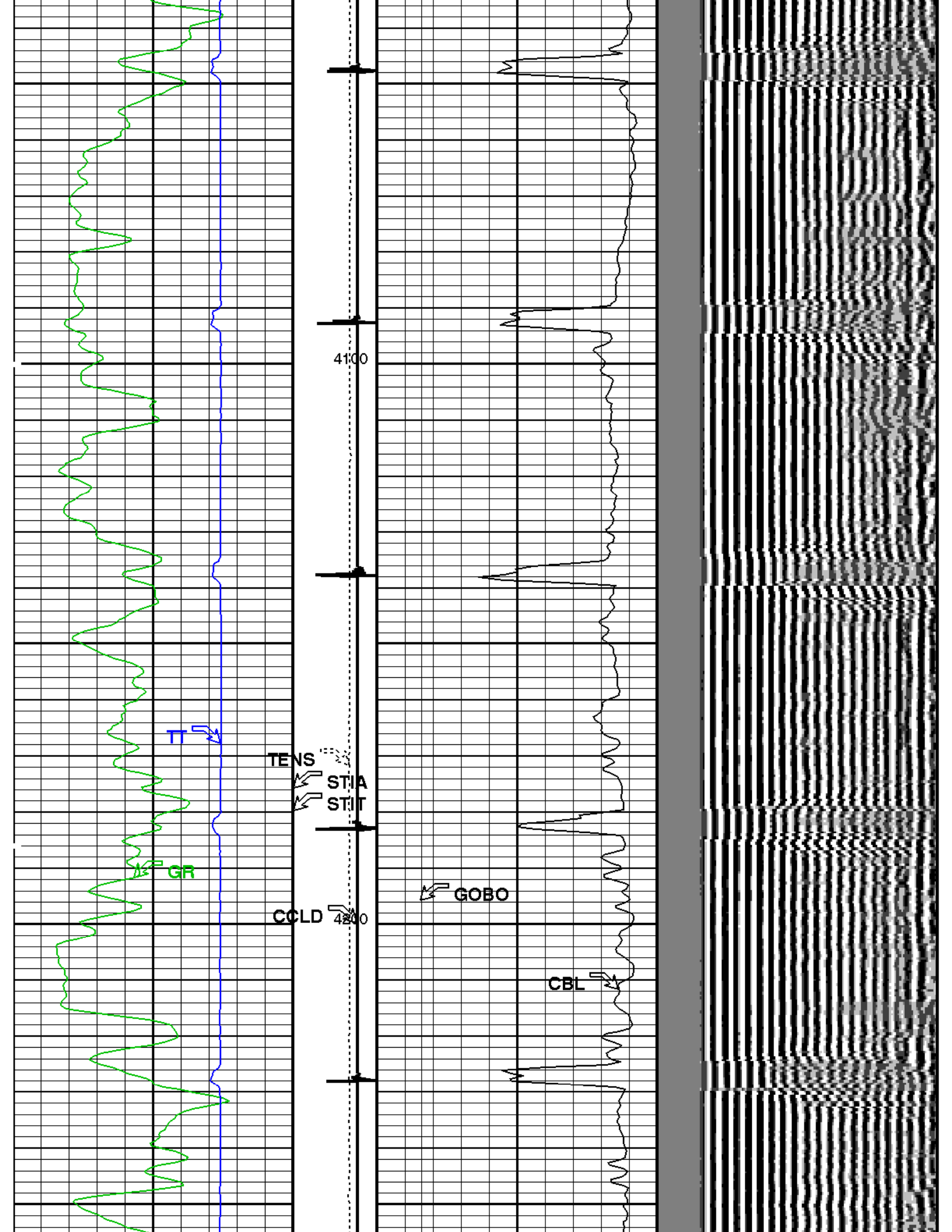
TT
TENS
STIA
STIT
GR
GOBO
CCLD
3700
CBL
3800


3900
TT
TENS
STIA
STIT
GR
GOBO
CCLD
CBL
4000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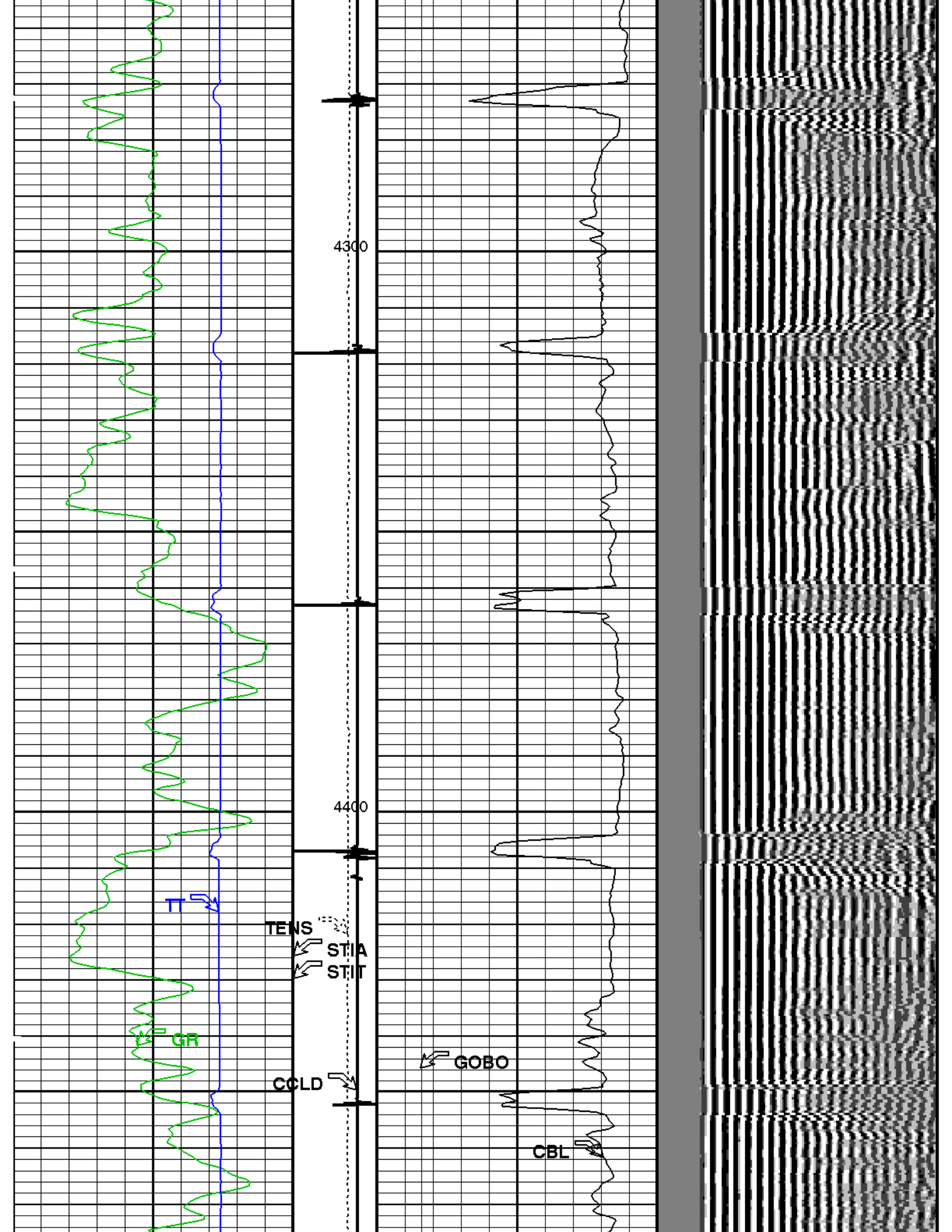
TT
TENS
STIA
STIT
GR
GOBO
CCLD
4200
CBL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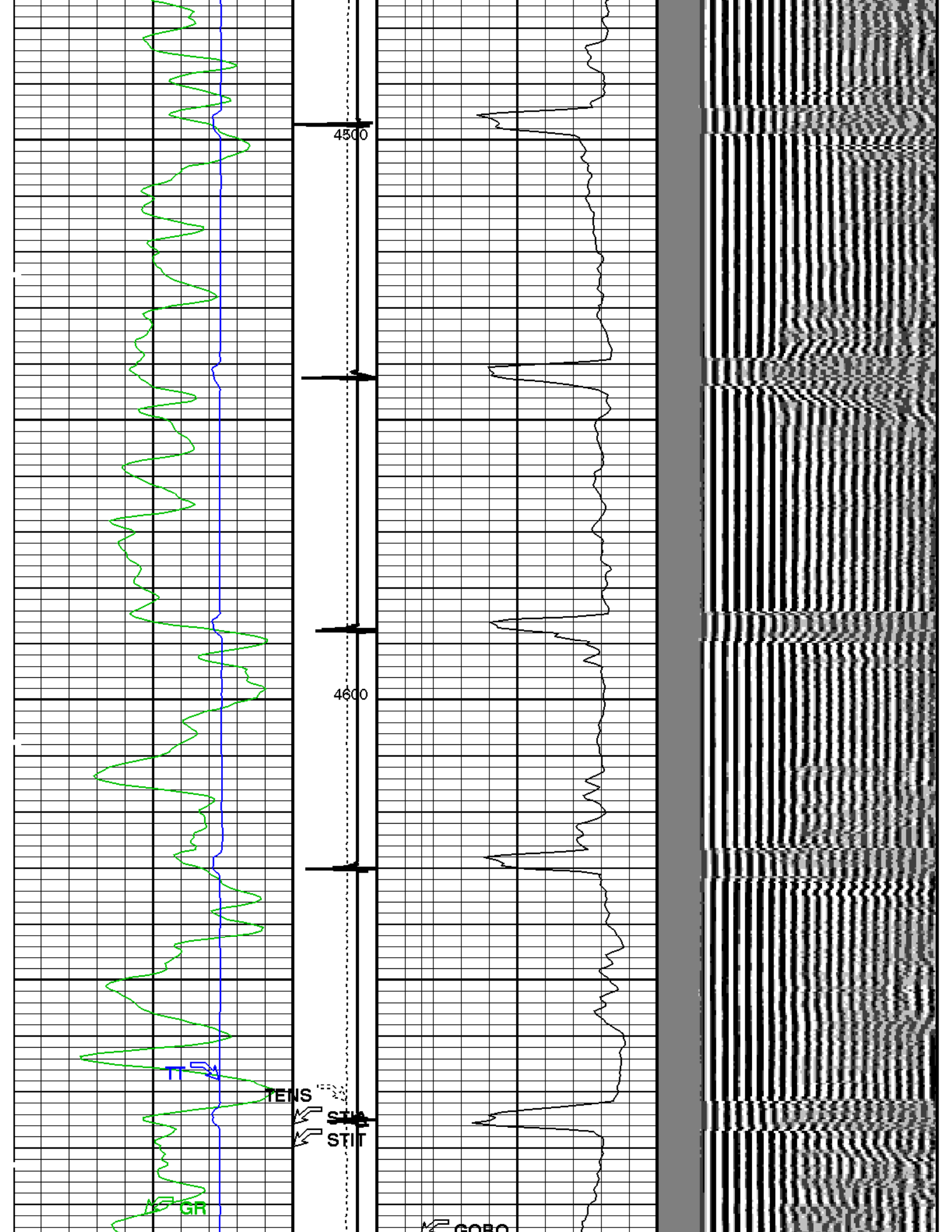
GR
GOBO
CCLD
CBL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4600
TT
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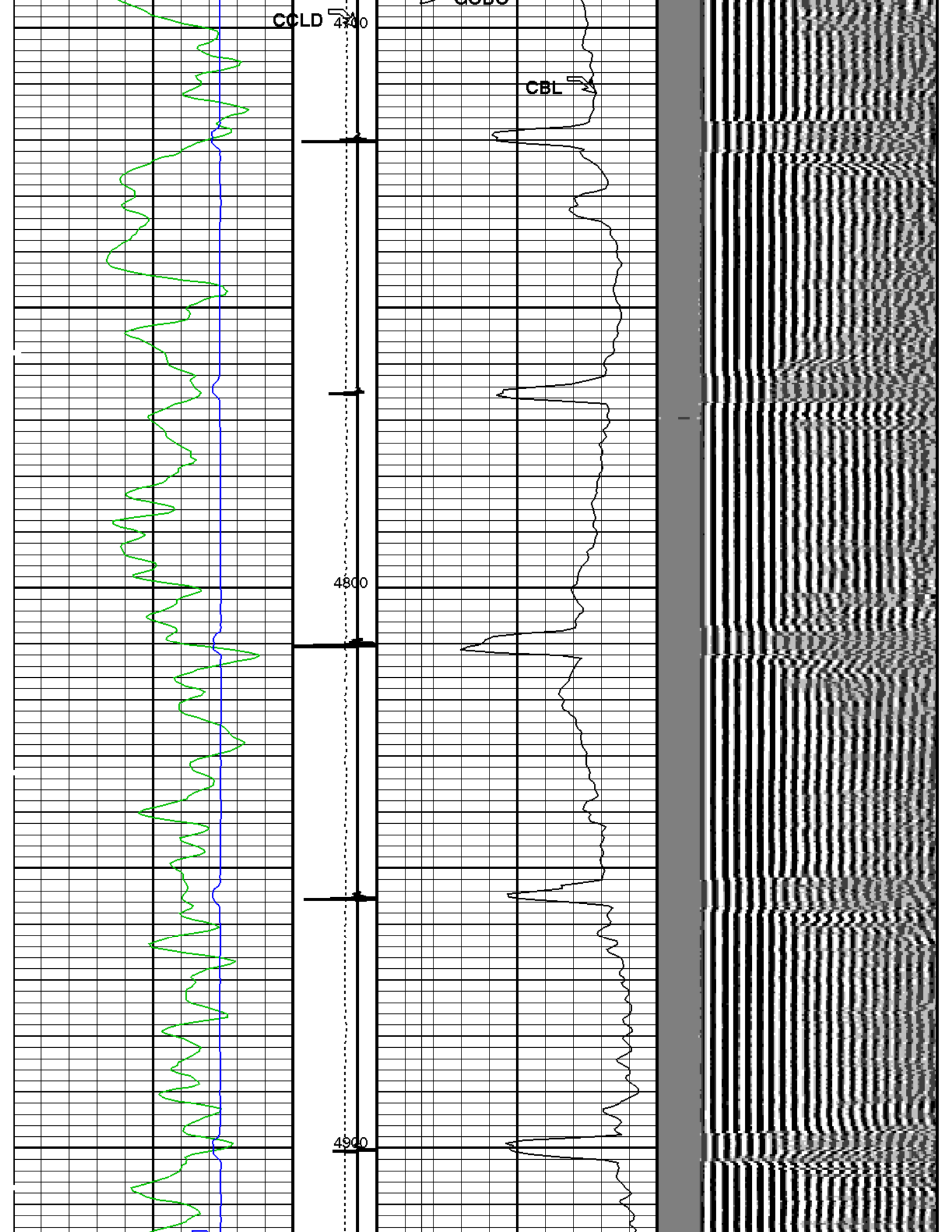
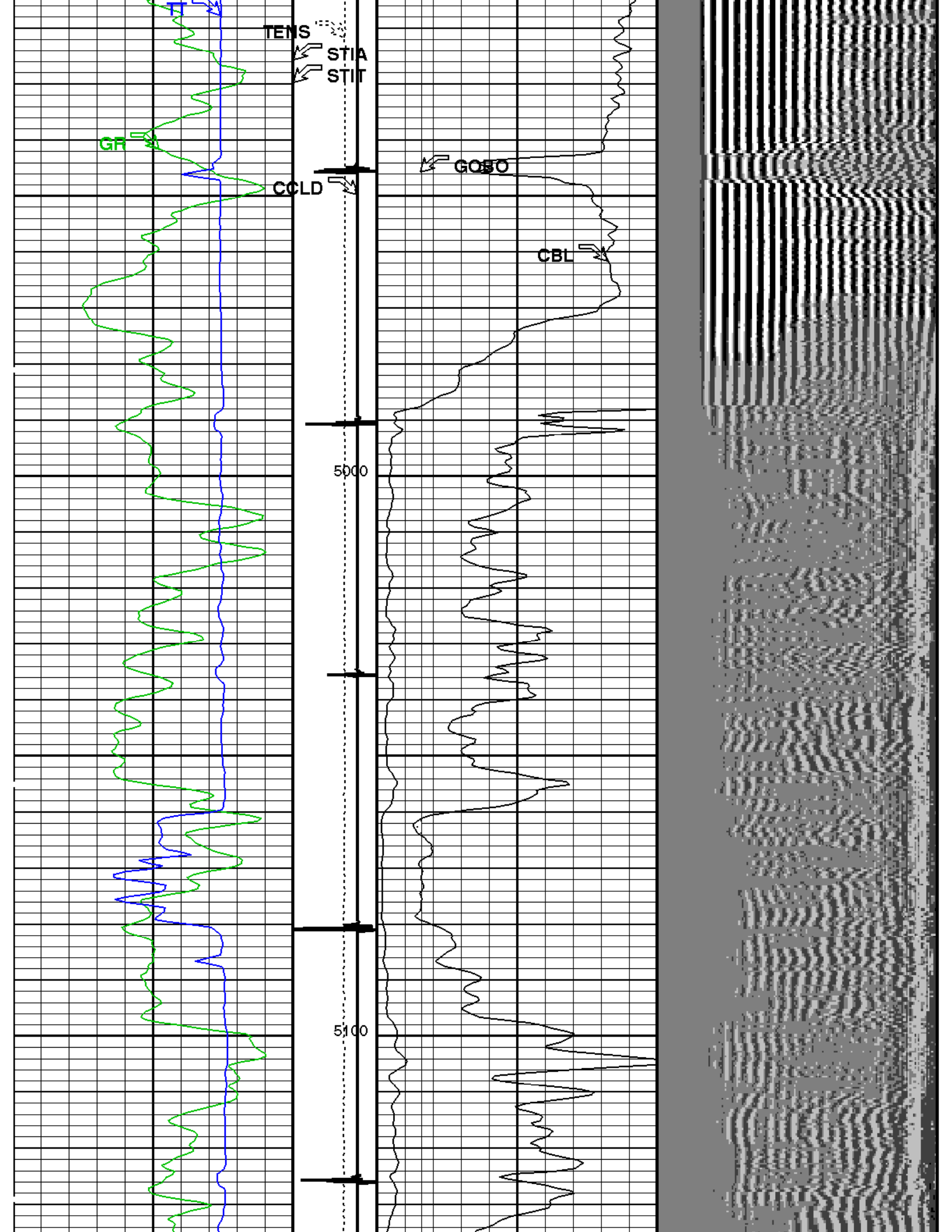
STIA
STIT
GR
GORO


CCLD
4700
CBL
4800
4900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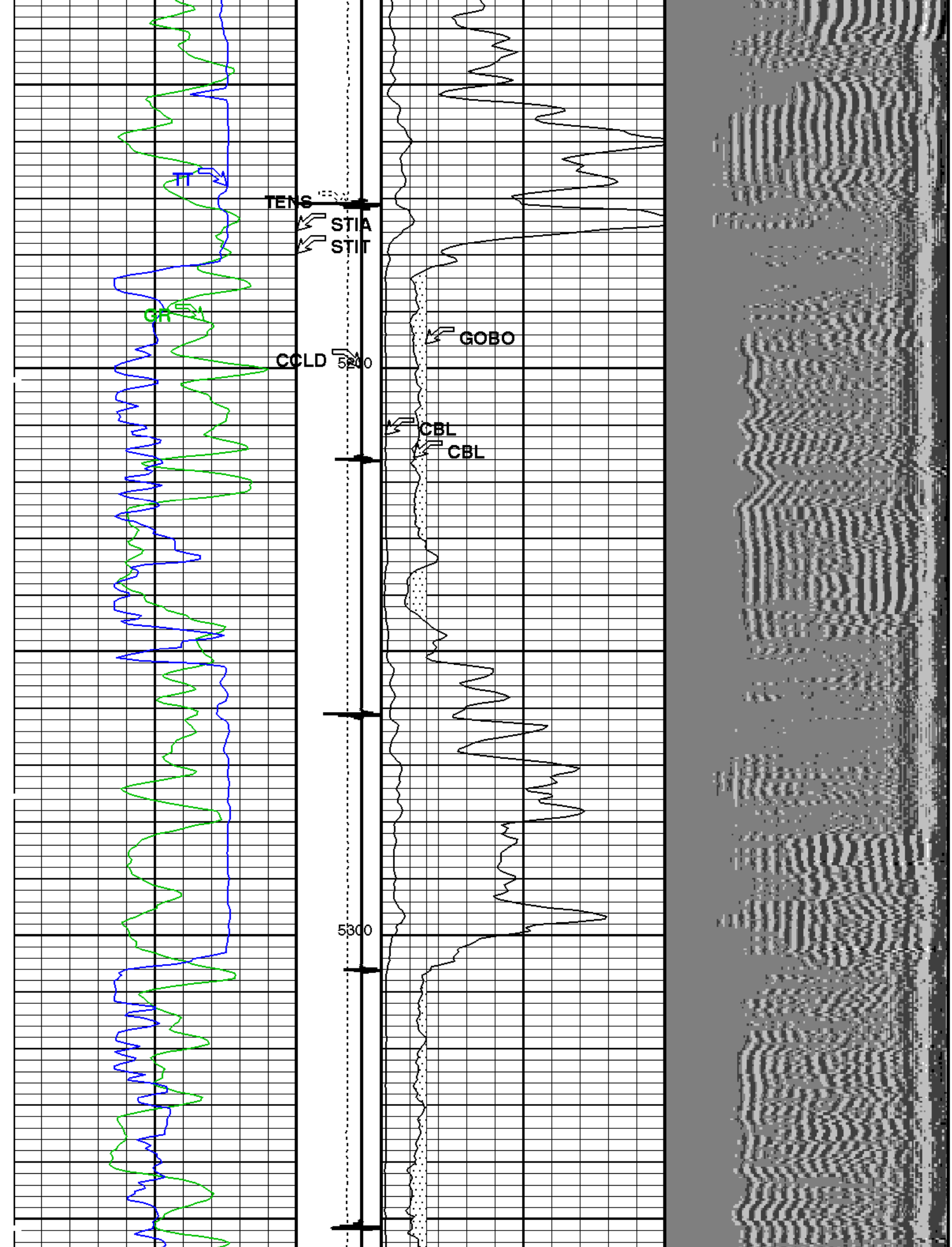
STIA
STIT
GR
GOBO
CCLD
CBL
5000
5100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TENS
STIA
STIT
GR
GOBO
CCLD
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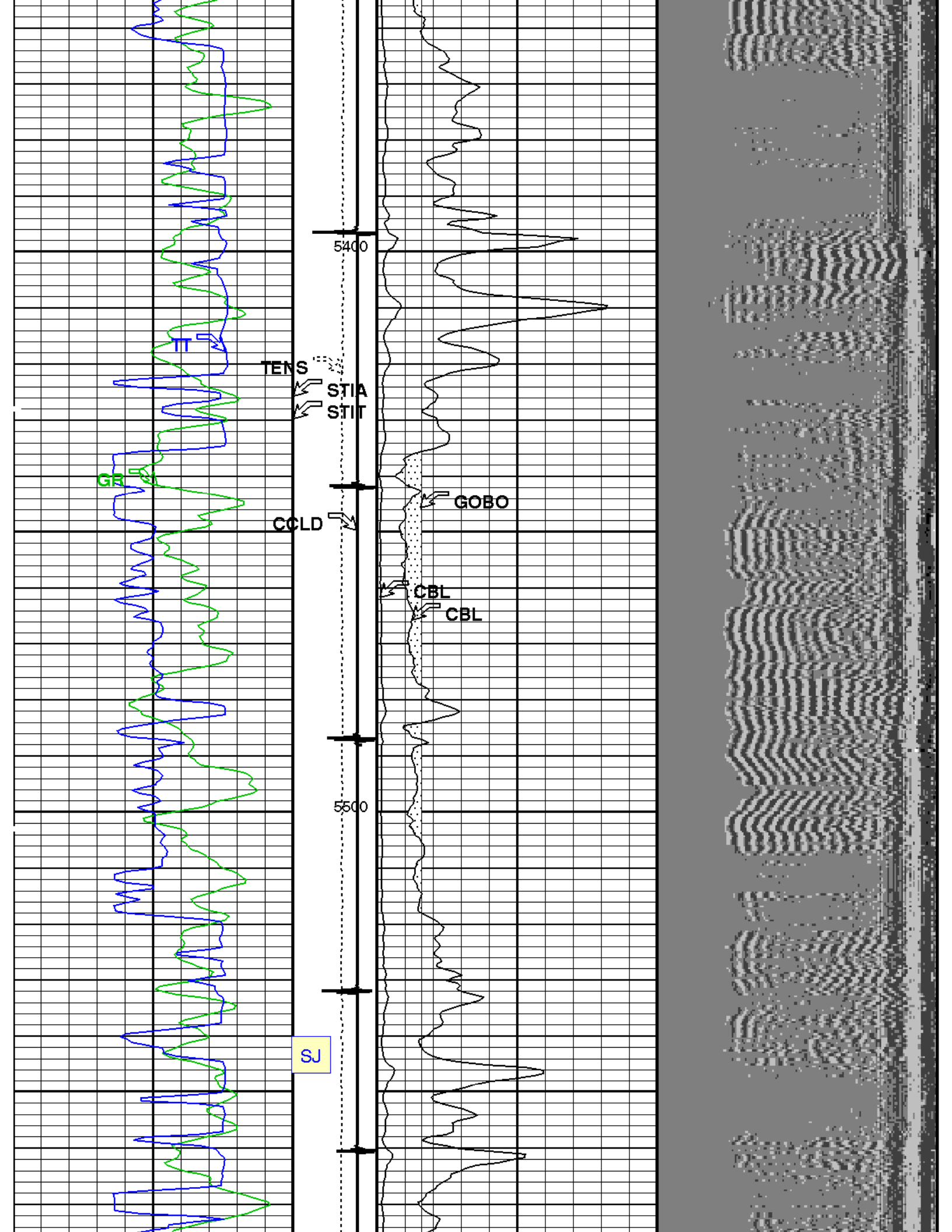
CBL
CBL
5300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TENS
STIA
STIT
GR
GOBO
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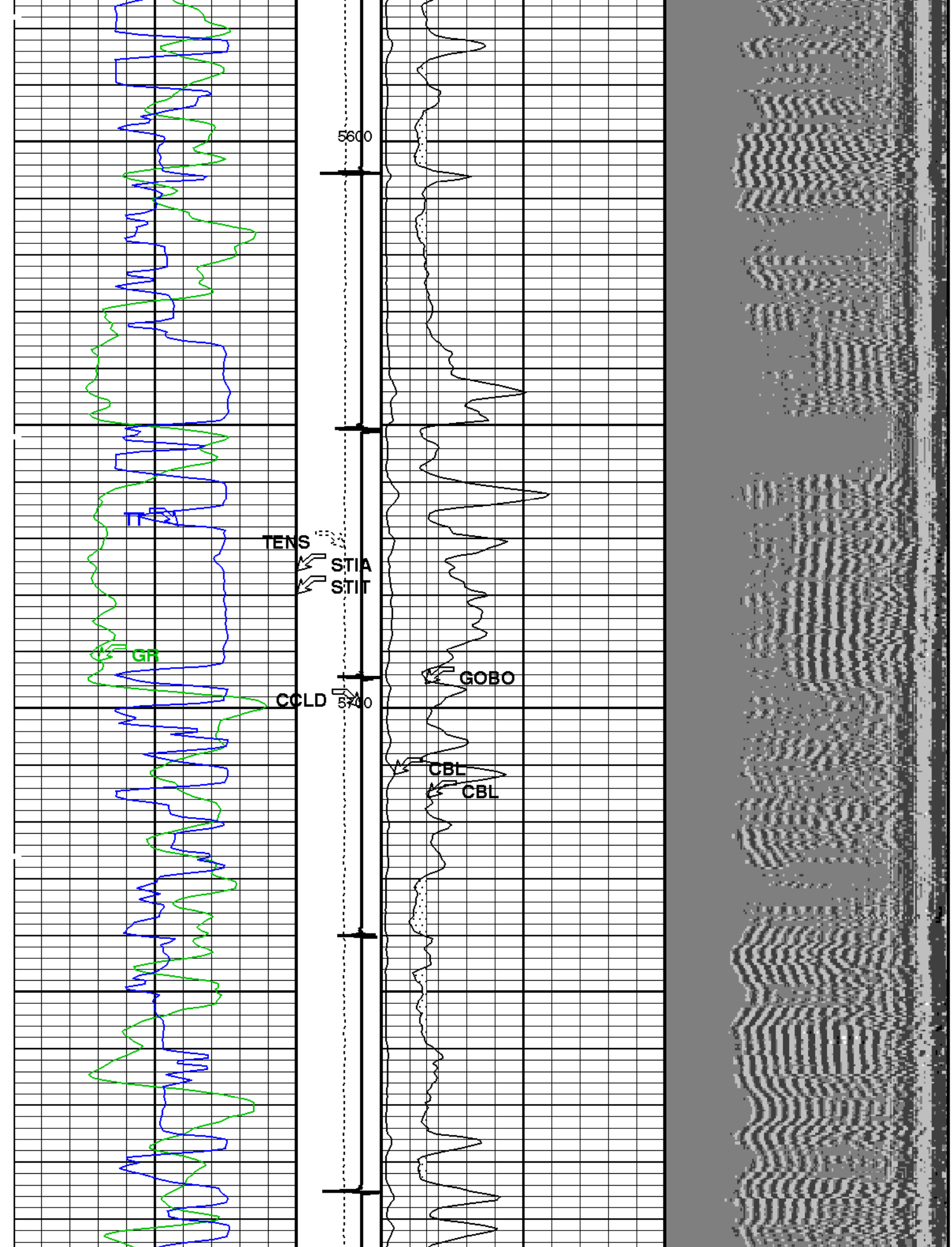
CBL
CBL
5500
SJ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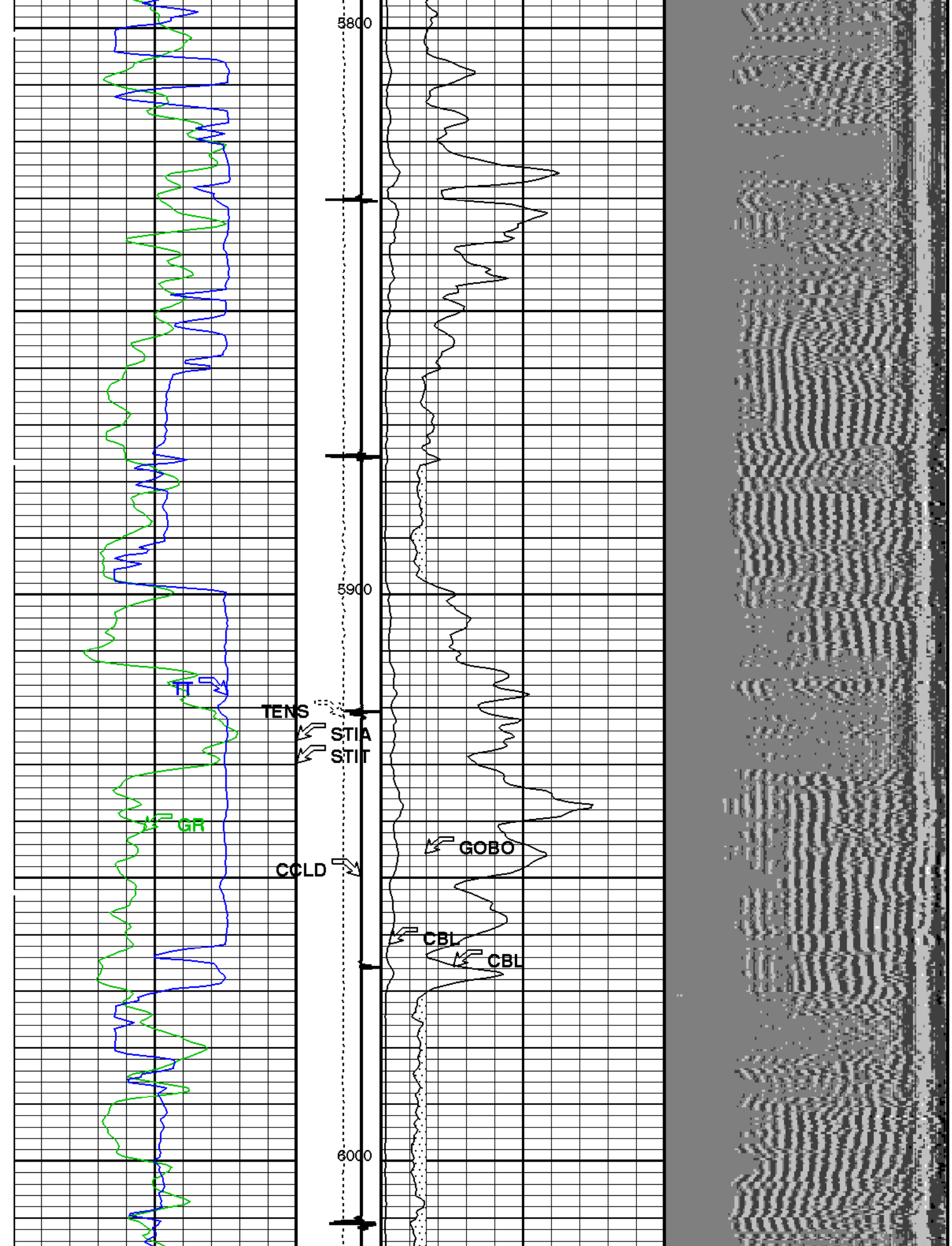
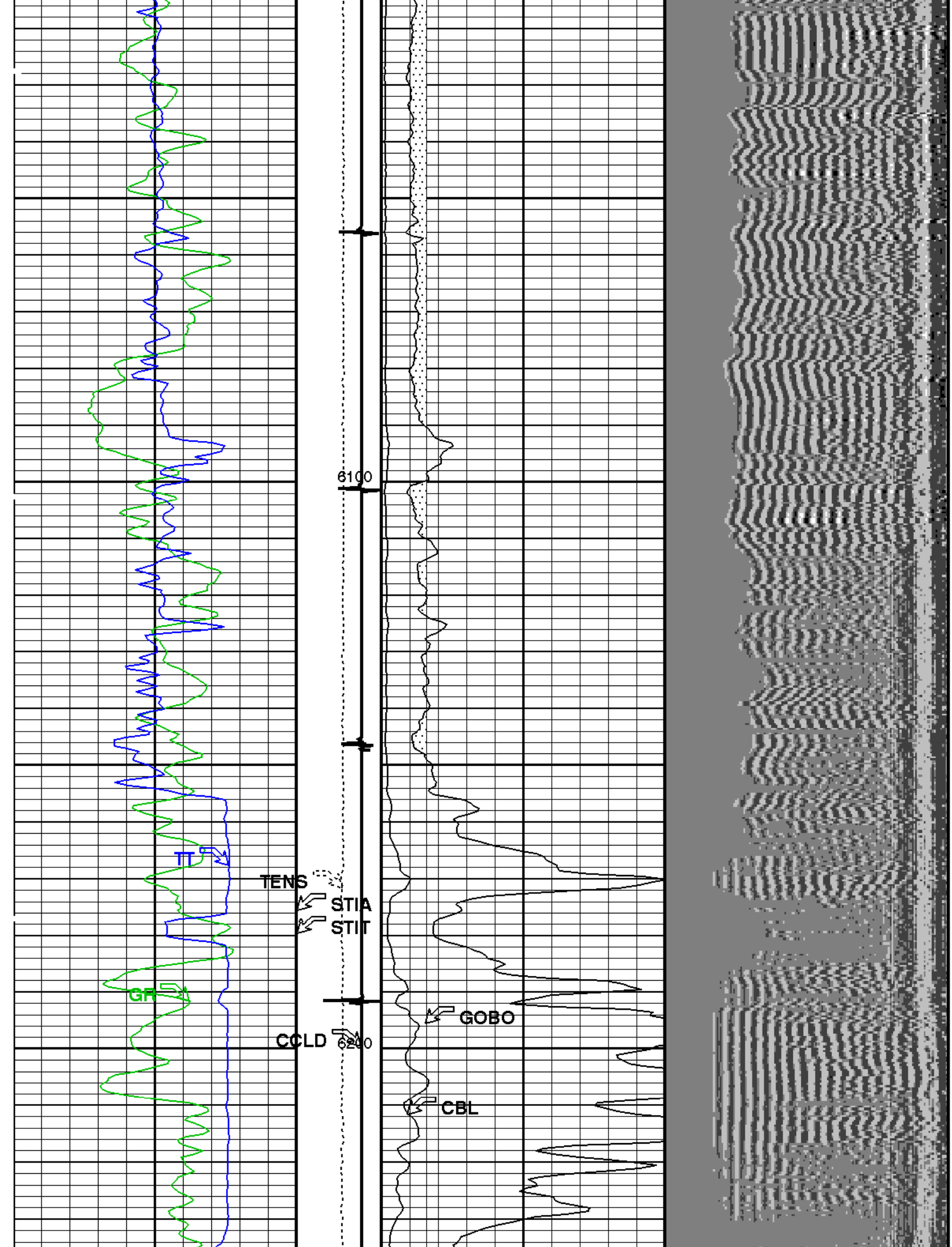
TT
TENS
STIA
STIT
GR
GOBO
CCLD
5700
CBL
CBL


5800
5900
6000
TT
TENS
STIA
STIT
GR
GOBO
CCLD
CBL
CBL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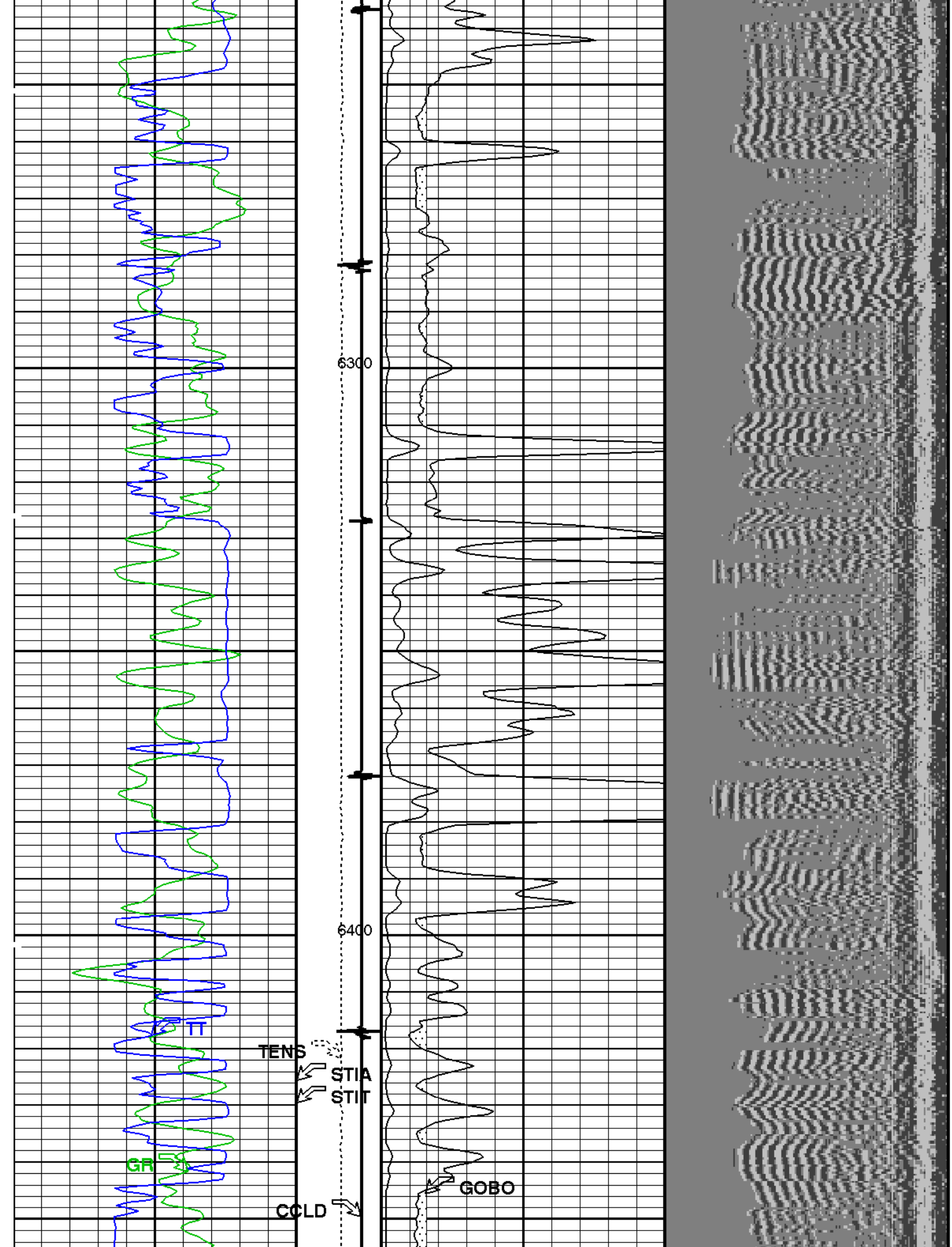
TT
TENS
STIA
STIT
GR
GOBO
CCLD
6200
CBL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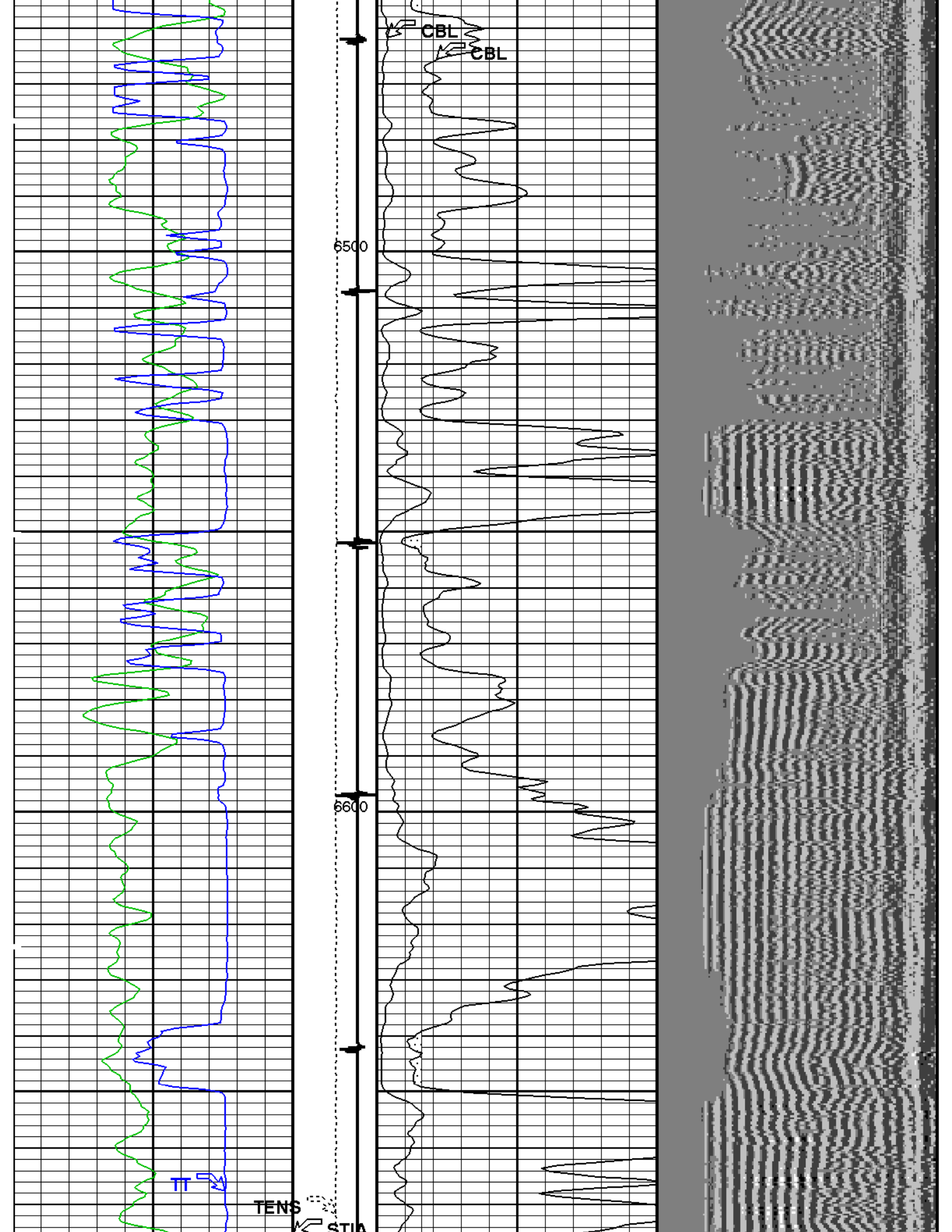
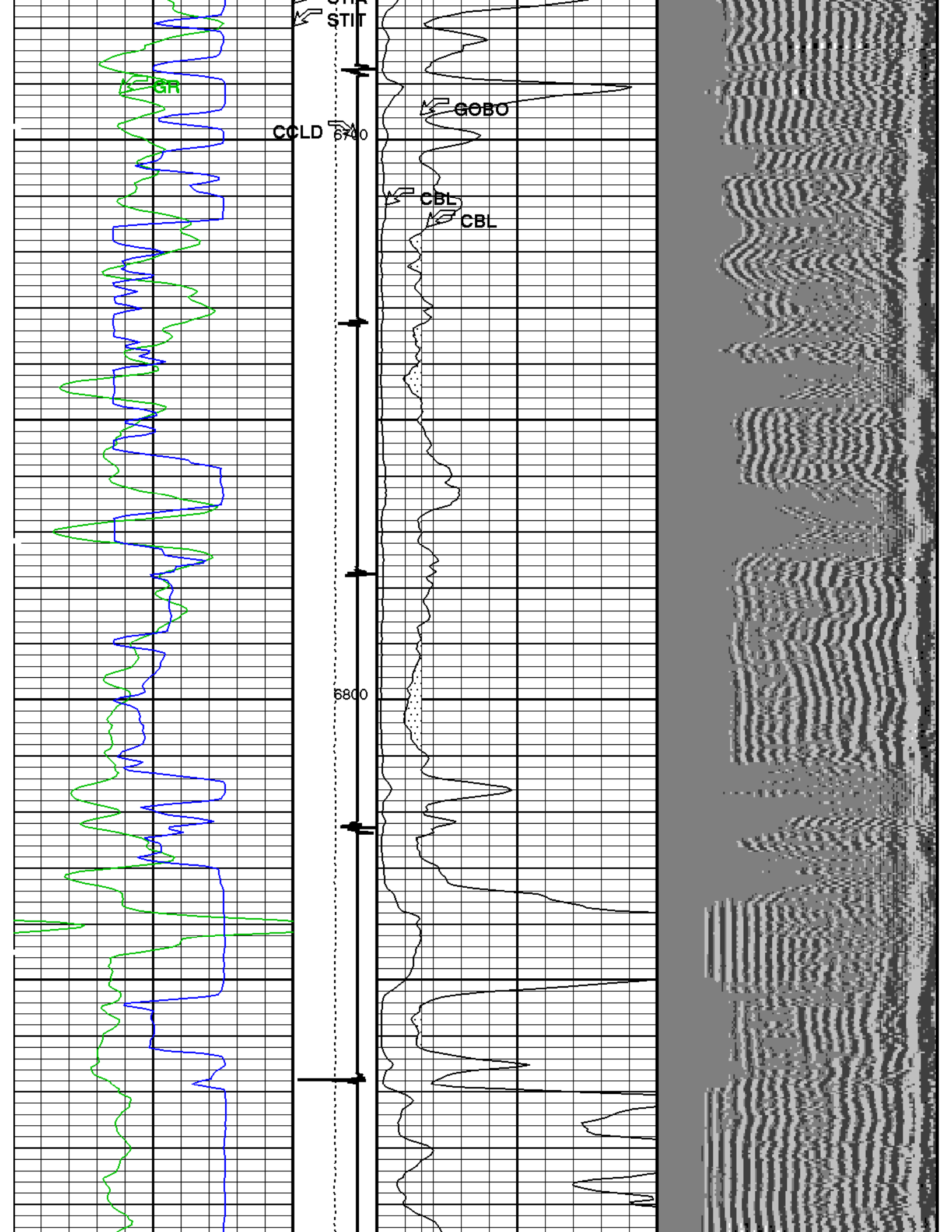

CBL
CBL
6500
6600
TT
TENS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CCLD
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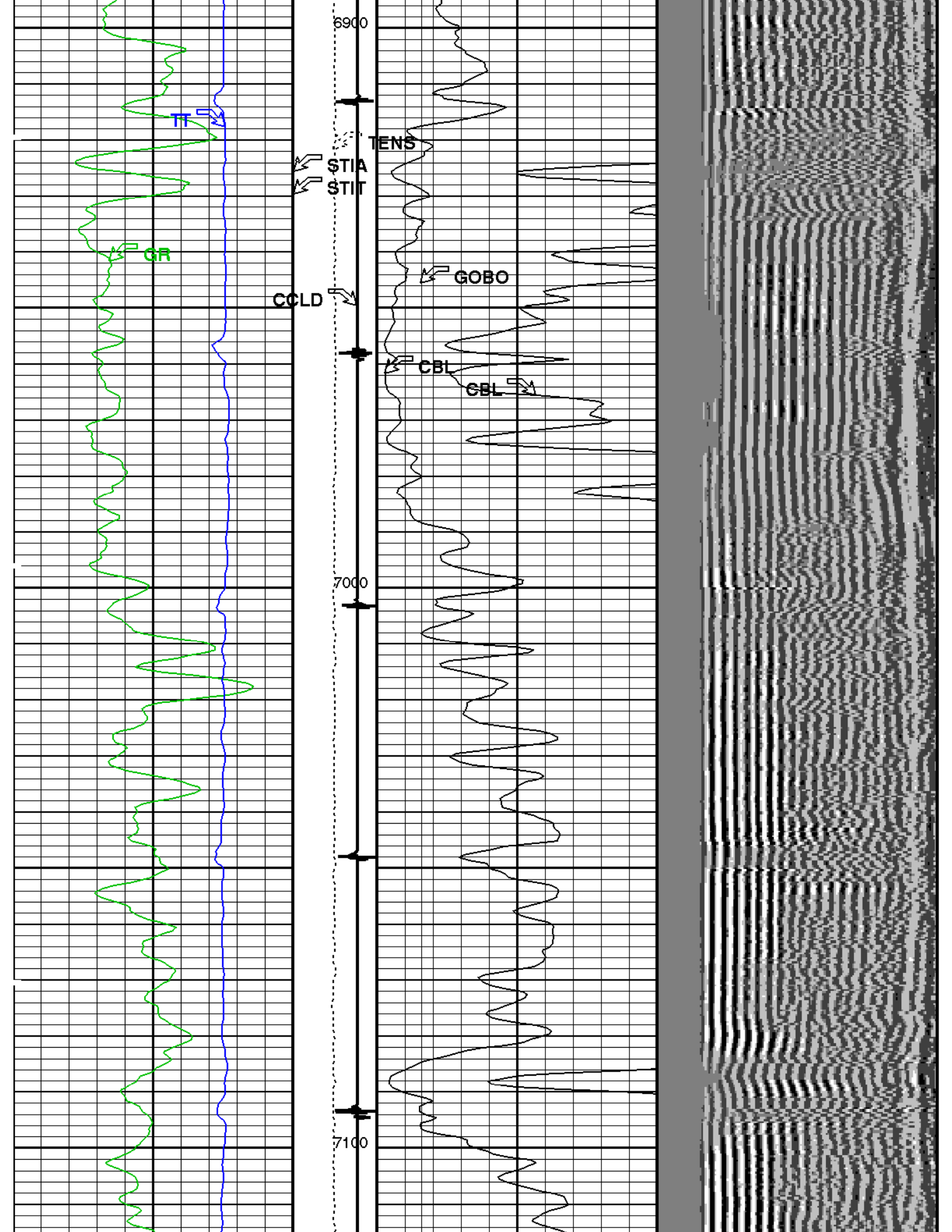
CBL
CBL
6800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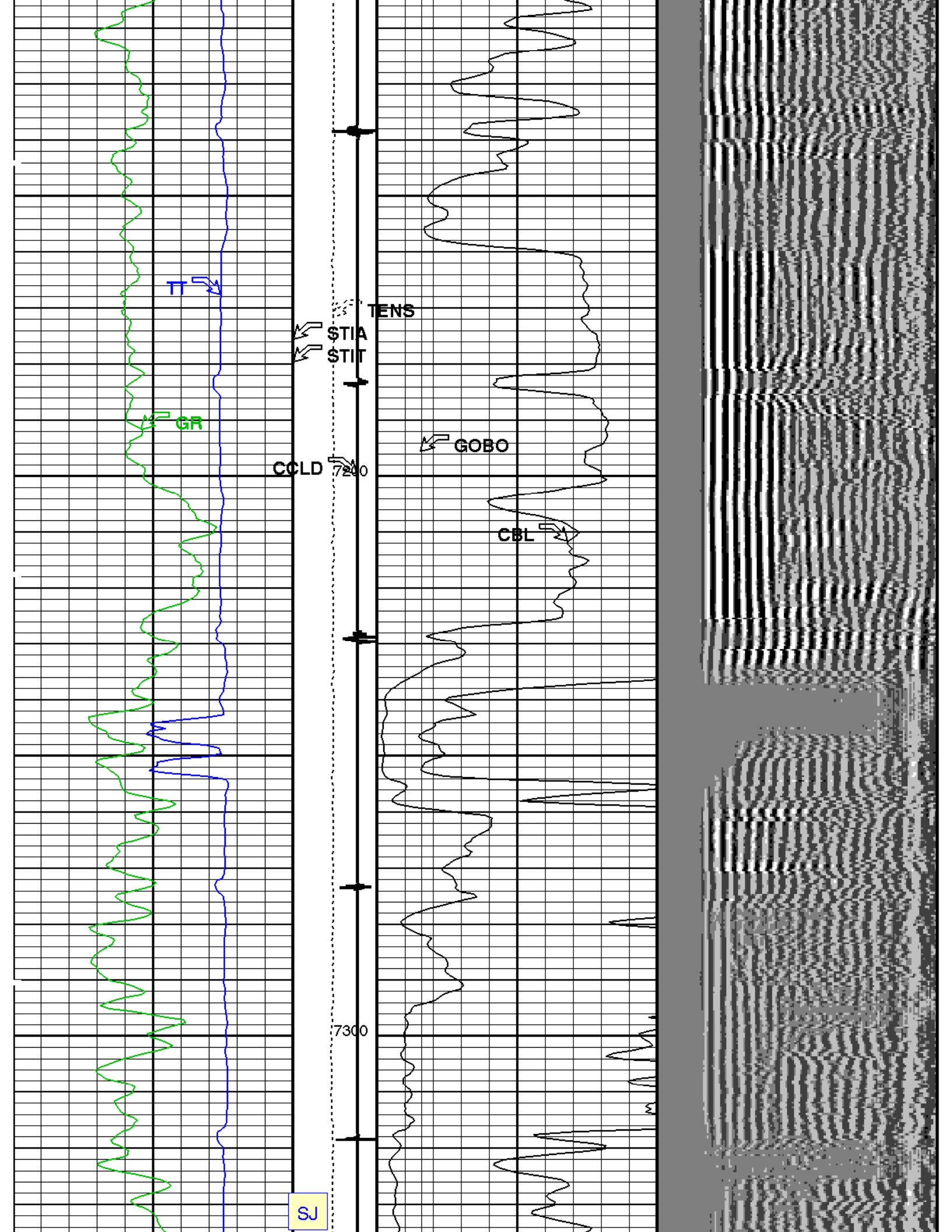
CBL
7000
7100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STIT
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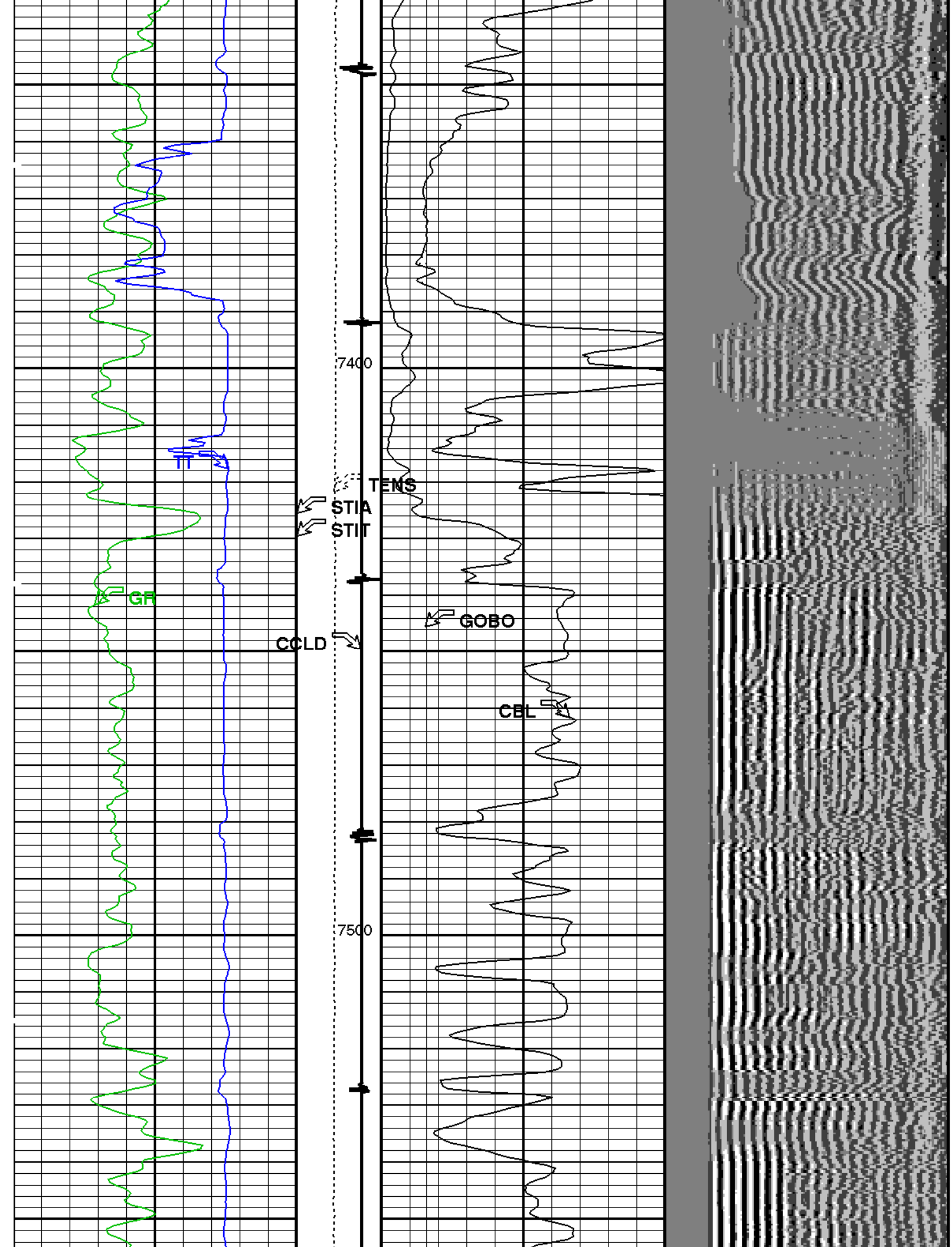
GOBO
CCLD
7200
CBL
7300
SJ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STIT
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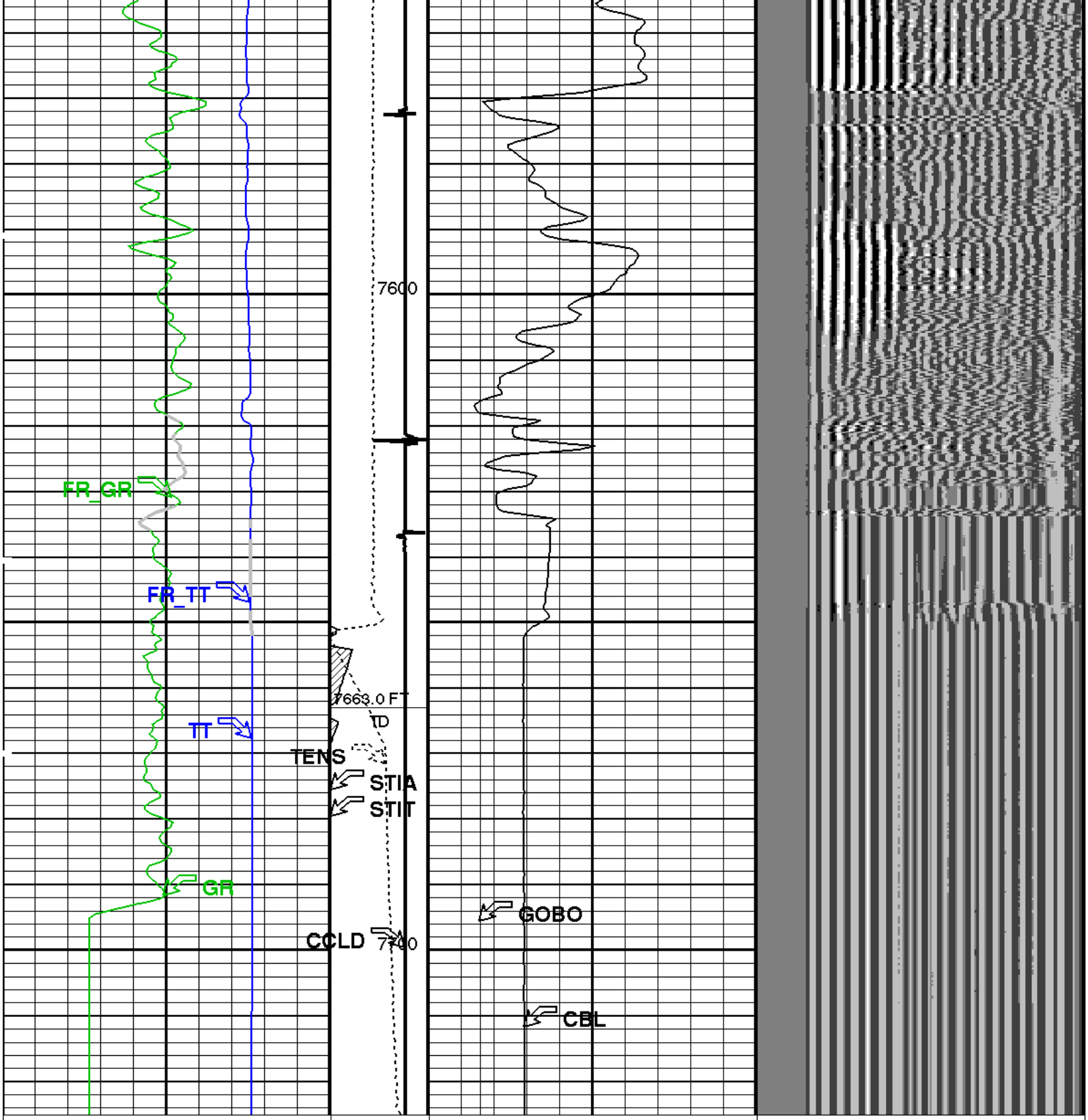
GOBO
CCLD
CBL
7500

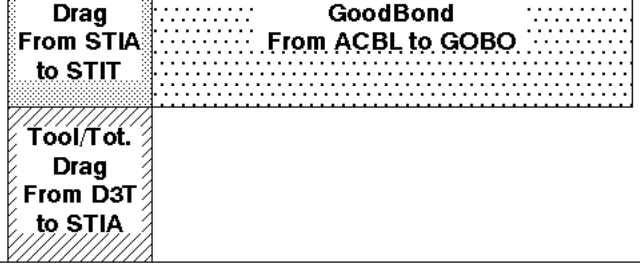


Gamma Ray (GR) 0 (GAPI) 150	Tension (TENS) (LBF) 2000 0	CBL Amplitude (CBL) 0 (MV) 10
Transit Time (TT) 400 (US) 200	Stuck Stretch (STIT) 0 (F) 50	CBL Amplitude (CBL) 0 (MV) 100
	Discriminated CCL (CCLD) 3 (V) -1	Good Bond (GOBO) 0 (MV) 10
	Cable	

Min Amplitude Max

VDL VariableDensity (VDL)

200 (US) 1200



PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 15-Jul-2009 05:17

OP System Version: 17C0-154

eWAFE Version: 1.139

SCMT-CB	SRPC-3821-Q2_2009_OP17	PSPT-A/B	SRPC-3821-Q2_2009_OP17

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8171		
Current Casing Size	4.50000 IN		
Casing Weight	11.6000 LB/F		
Expected CBL Amplitude in Free Pipe Section	80 MV	Minimum Sonic Amplitude	0.572744 MV (100% Cement)
			1.53811 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.27504 MV (100% Cement)
			8.03067 MV (80% Cement)
Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	8-APR-2009		
CBL Correction Factor	0.0688642	CBL Adjustment Factor (CBAF)	1.14000
MAP 1 Correction Factor	0.123641	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.130486		
MAP 3 Correction Factor	0.122676		
MAP 4 Correction Factor	0.120390		
MAP 5 Correction Factor	0.123982		
MAP 6 Correction Factor	0.117917		
MAP 7 Correction Factor	0.129580		
MAP 8 Correction Factor	0.138907		

Parameters

DLIS Name	Description	Value	
	SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD		
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	228.424	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	342.424	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	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	171.424	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F

MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	7770.00	FT
TDL	Total Depth - Logger	7663.00	FT
System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN
DFD	Drilling Fluid Density	8.35	LB/G
DO	Depth Offset for Playback	10.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	7663	FT

Input DLIS Files

DEFAULT	SCMT_PSP_055LUP	FN:52	PRODUCER	15-Jul-2009 03:42	7715.0 FT	549.5 FT

Output DLIS Files

DEFAULT	SCMT_PSP_058PUP	FN:55	PRODUCER	15-Jul-2009 05:17		

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REPEAT PASS

MAXIS Field Log

Company: BILL BARRETT CORPORATION | Well: BBC 42D-23-692

Input DLIS Files

DEFAULT	SCMT_PSP_054LUP	FN:51	PRODUCER	15-Jul-2009 03:34	7731.5 FT	7374.0 FT

Output DLIS Files

DEFAULT	SCMT_PSP_057PUP	FN:54	PRODUCER	15-Jul-2009 05:15	7741.5 FT	7384.0 FT

OP System Version: 17C0-154

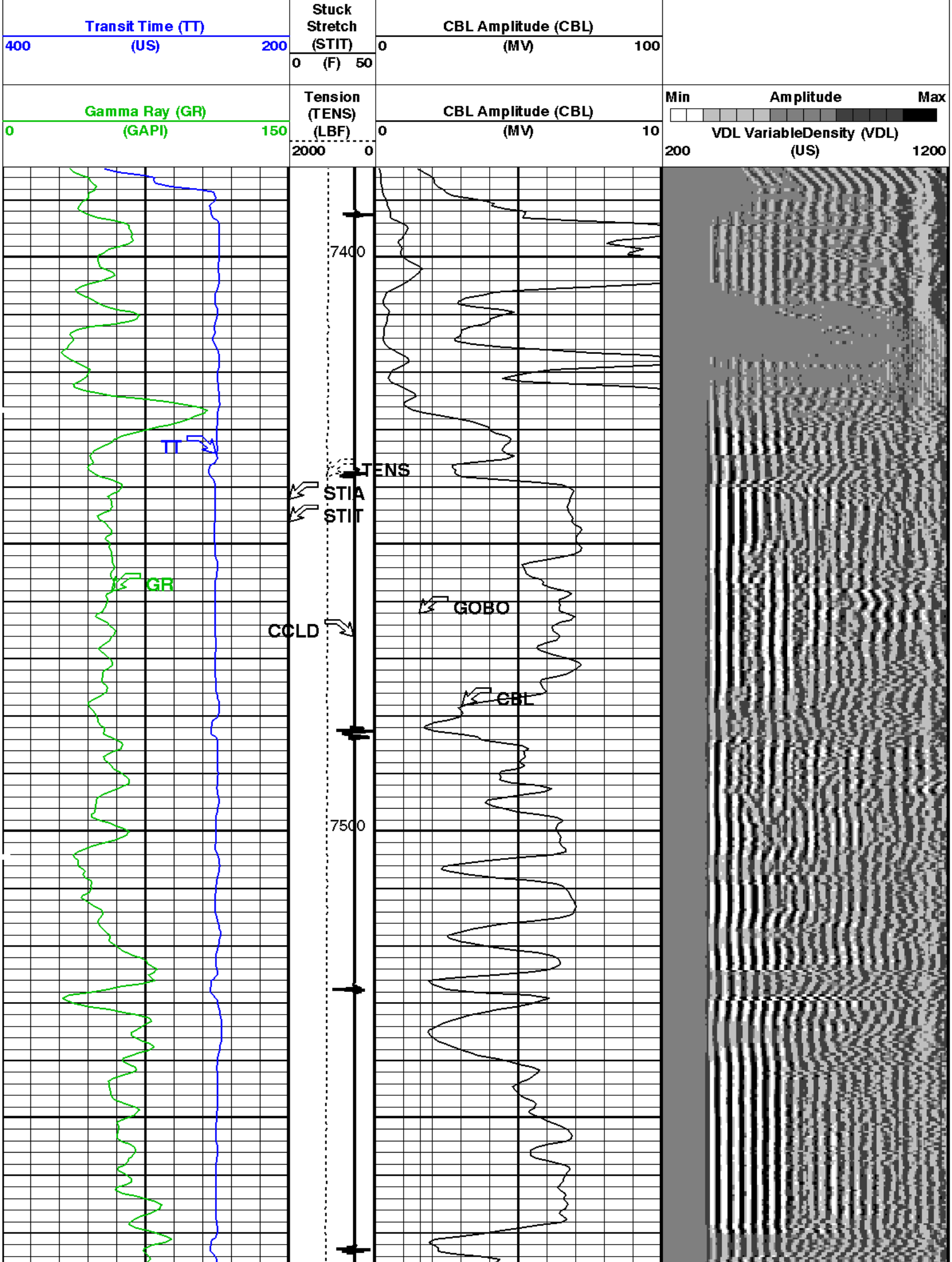
eWAFE Version: 1.139

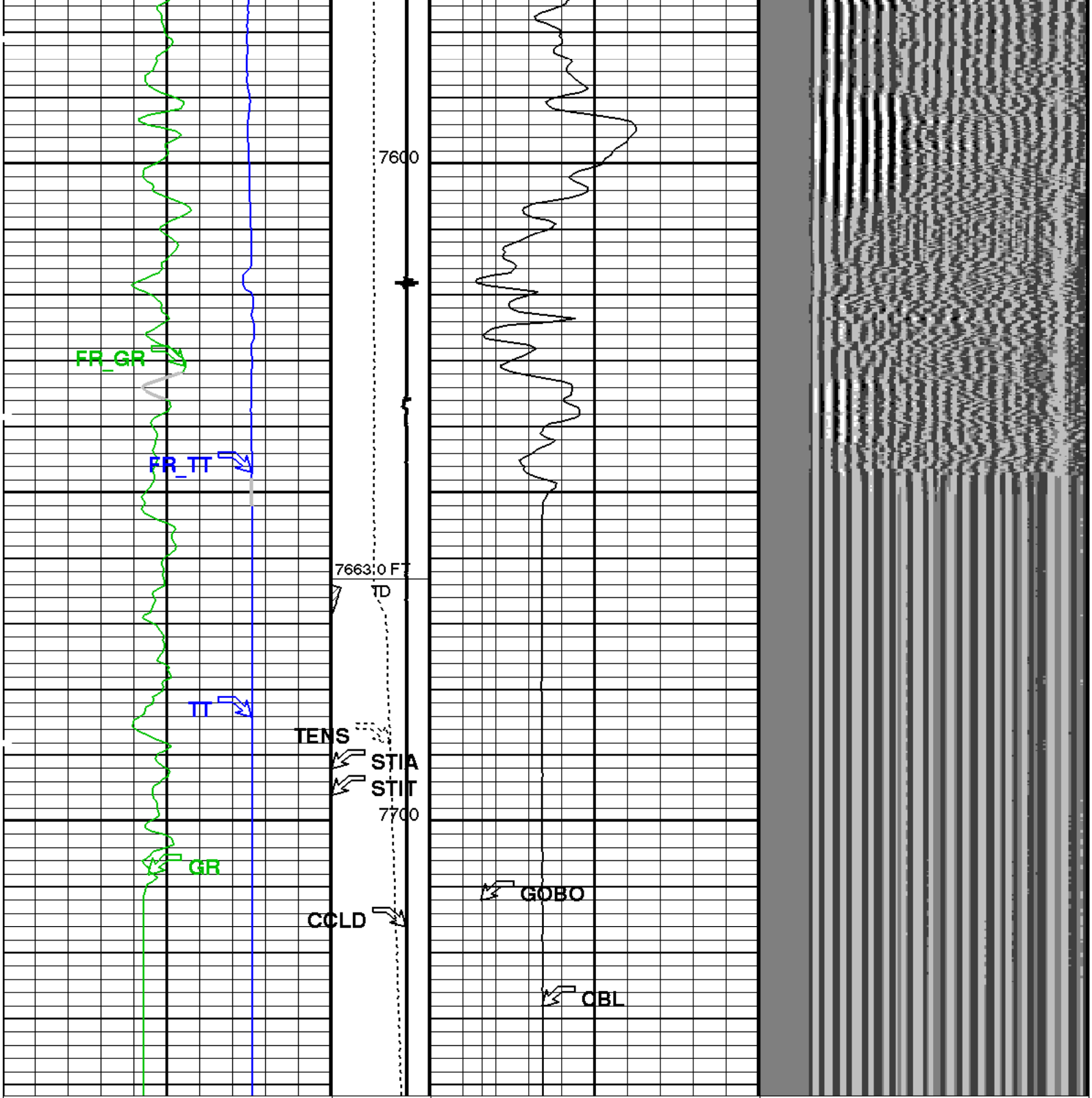
SCMT-CB	SRPC-3821-Q2_2009_OP17	PSPT-A/B	SRPC-3821-Q2_2009_OP17

PIP SUMMARY

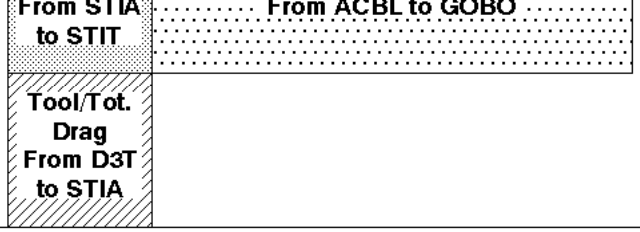
Time Mark Every 60 S

Tool/Tot. Drag From D3T to STIA		
Cable Drag From STIA to STIT	GoodBond From ACBL to GOBO	
Discriminated CCL (CCLD)	Good Bond (GOBO)	
3 (V) -1	0 (MV) 10	


Transit Time (TT)
400 (US) 200
Stuck Stretch (STIT)
0 (F) 50
CBL Amplitude (CBL)
0 (MV) 100
Gamma Ray (GR)
0 (GAPI) 150
Tension (TENS)
(LBF)
2000 0
CBL Amplitude (CBL)
0 (MV) 10
Min Amplitude Max
VDL VariableDensity (VDL)
200 (US) 1200
7400
7500
TT
TENS
STIA
STIT
GR
GOBO
CCLD
CBL



Gamma Ray (GR)	Tension (TENS)	CBL Amplitude (CBL)	Min Amplitude Max
0 (GAPI) 150	2000 (LBF) 0	0 (MV) 10	VDL VariableDensity (VDL) 200 (US) 1200
Transit Time (TT)	**Stuck Stretch (STIT)**	**CBL Amplitude (CBL)**	
400 (US) 200	0 (F) 50	0 (MV) 100	
	Discriminated CCL (CCLD)	**Good Bond (GOBO)**	
	3 (V) -1	0 (MV) 10	
	Cable Drag	GoodBond	



PIP SUMMARY

Time Mark Every 60 S

Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 15-Jul-2009 05:16

OP System Version: 17C0-154

eWAFE Version: 1.139

SCMT-CB	SRPC-3821-Q2_2009_OP17	PSPT-A/B	SRPC-3821-Q2_2009_OP17

<<<SCMT Cement Evaluation Information Summary>>>

Sonde Serial Number	SCMS-CB 8171		
Current Casing Size	4.50000 IN		
Casing Weight	11.6000 LB/F		
Expected CBL Amplitude in Free Pipe Section	80 MV	Minimum Sonic Amplitude	0.572744 MV (100% Cement)
			1.53811 MV (80% Cement)
		MAP Minimum Sonic Amplitude	4.27504 MV (100% Cement)
			8.03067 MV (80% Cement)
Master Calibration (Normalization)		Before Calibration (Adjustment)	
Date of Master Calibration	8-APR-2009		
CBL Correction Factor	0.0688642	CBL Adjustment Factor (CBAF)	1.14000
MAP 1 Correction Factor	0.123641	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.130486		
MAP 3 Correction Factor	0.122676		
MAP 4 Correction Factor	0.120390		
MAP 5 Correction Factor	0.123982		
MAP 6 Correction Factor	0.117917		
MAP 7 Correction Factor	0.129580		
MAP 8 Correction Factor	0.138907		

Parameters

DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	228.424	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	342.424	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	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	171.424	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT

MMSA	MAP Minimum Sonic Amplitude	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	7770.00	FT
TDL	Total Depth - Logger	7663.00	FT
	System and Miscellaneous		
CSIZ	Current Casing Size	4.500	IN
DFD	Drilling Fluid Density	8.35	LB/G
DO	Depth Offset for Playback	10.0	FT
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	7663	FT

Input DLIS Files

DEFAULT	SCMT_PSP_054LUP	FN:51	PRODUCER	15-Jul-2009 03:34	7731.5 FT	7374.0 FT

Output DLIS Files

DEFAULT	SCMT_PSP_057PUP	FN:54	PRODUCER	15-Jul-2009 05:15		

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TEMPERATURE PASS

MAXIS Field Log

Input DLIS Files

DEFAULT	SCMT_PSP_055LUP	FN:52	PRODUCER	15-Jul-2009 03:42	7715.0 FT	549.5 FT

Output DLIS Files

DEFAULT	SCMT_PSP_058PUP	FN:55	PRODUCER	15-Jul-2009 05:17	7725.0 FT	559.5 FT

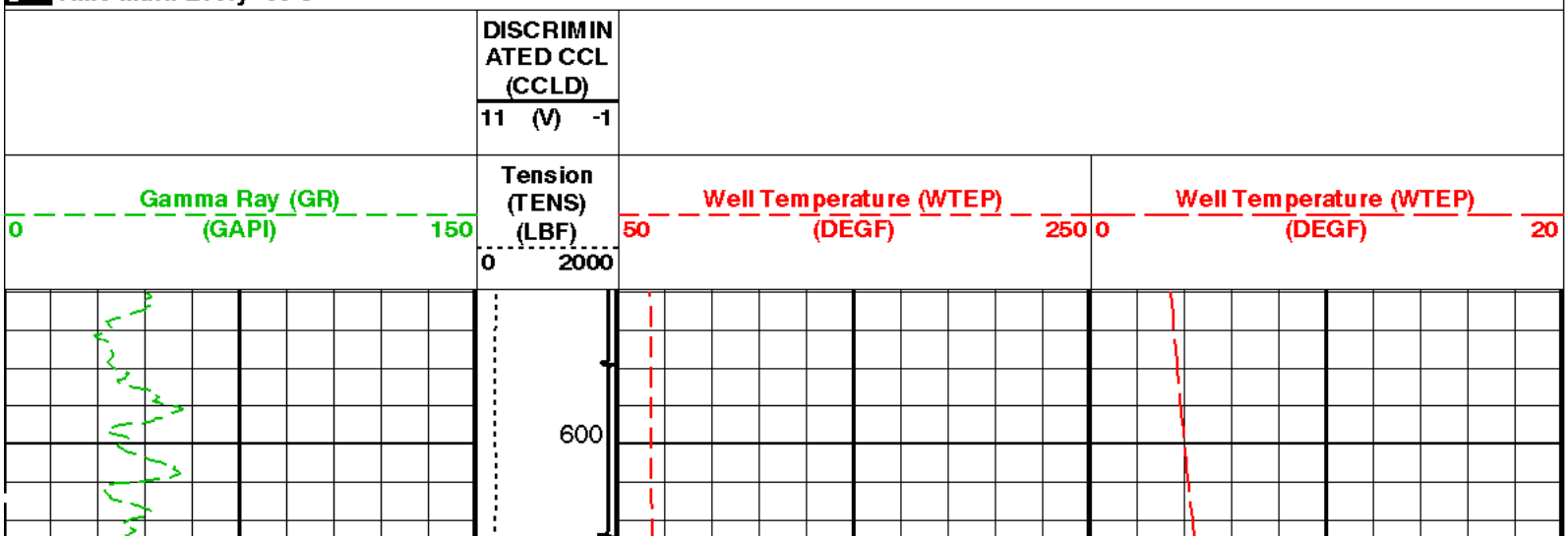
OP System Version: 17C0-154

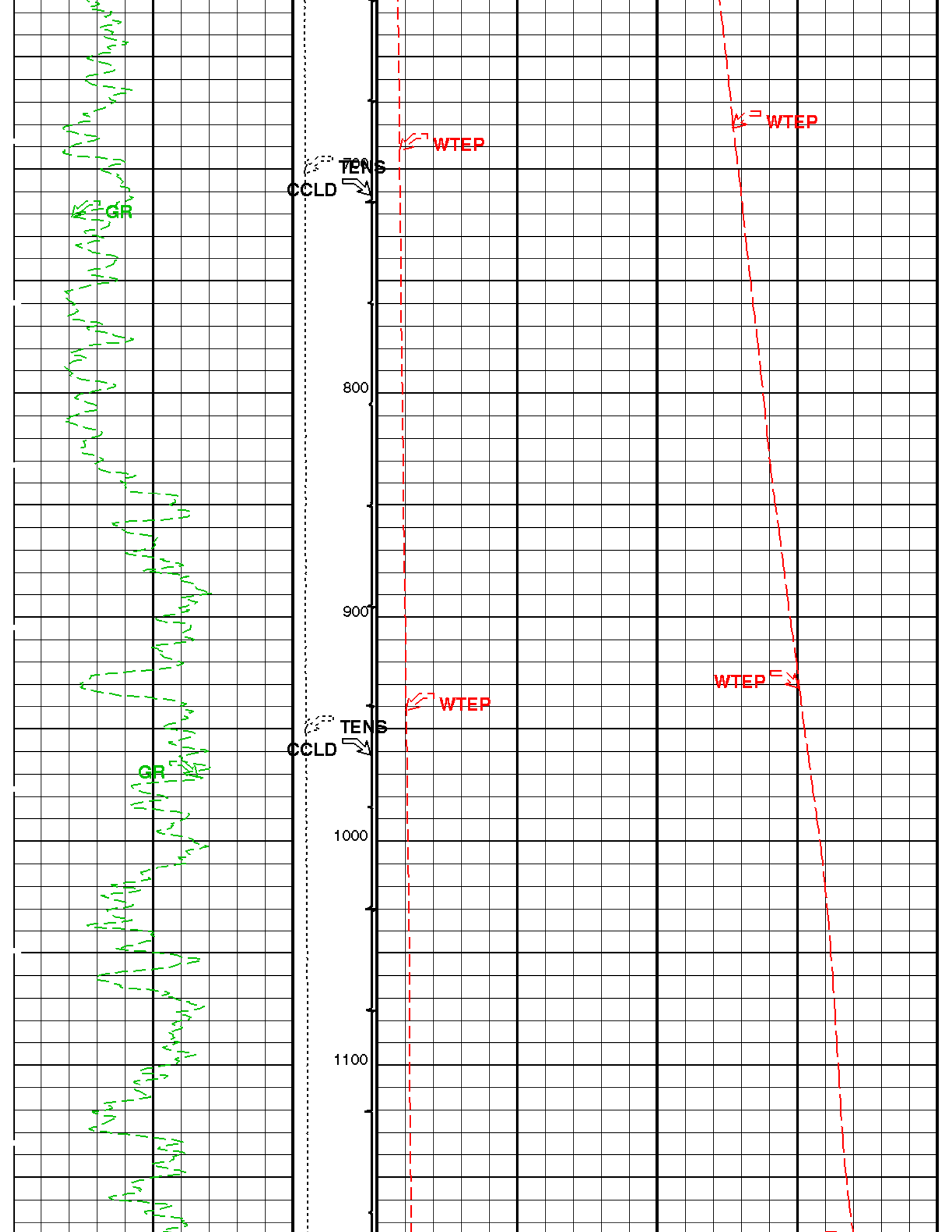
eWAFE Version: 1.139

SCMT-CB	SRPC-3821-Q2_2009_OP17	PSPT-A/B	SRPC-3821-Q2_2009_OP17

PIP SUMMARY

Time Mark Every 60 S

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CCLD
GR
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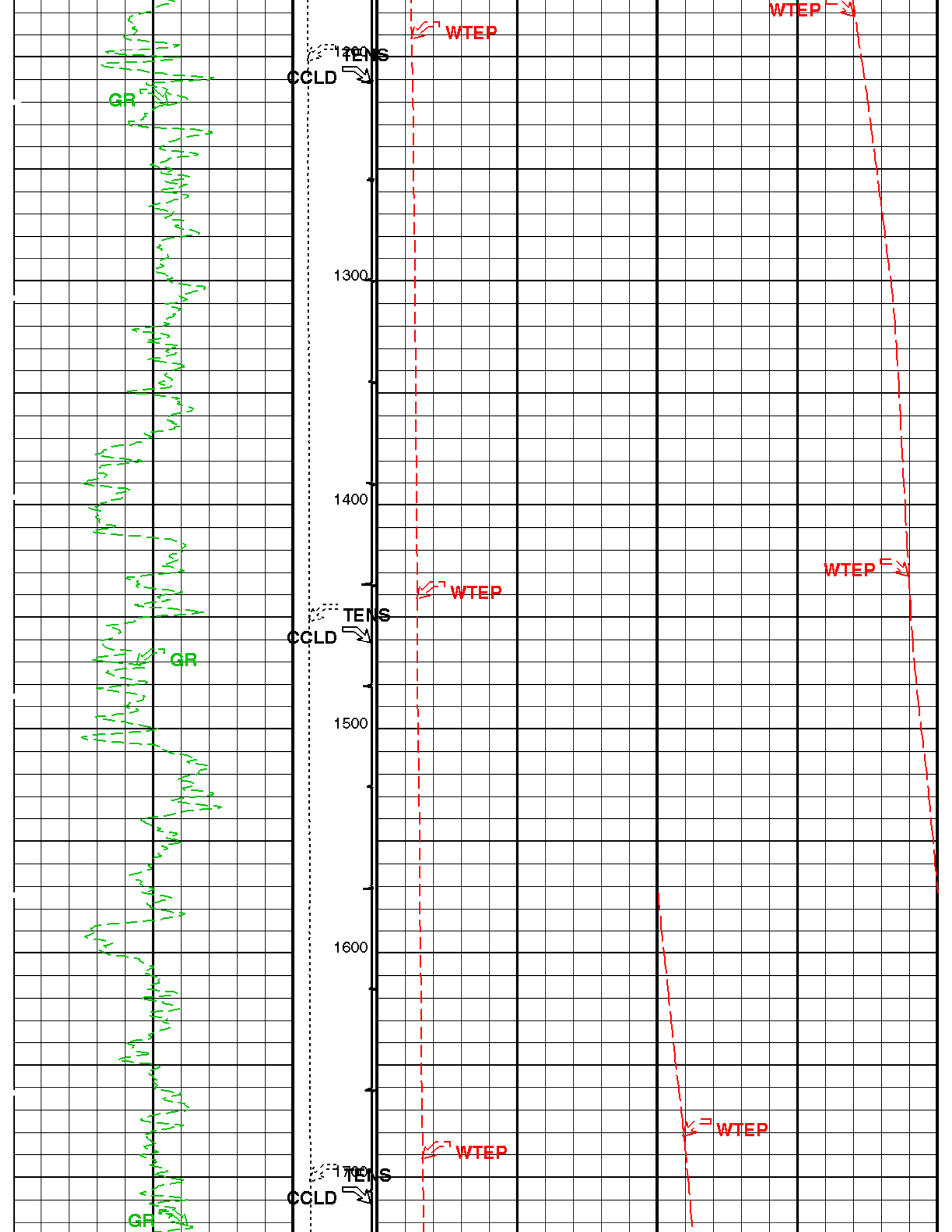
900
1000
1100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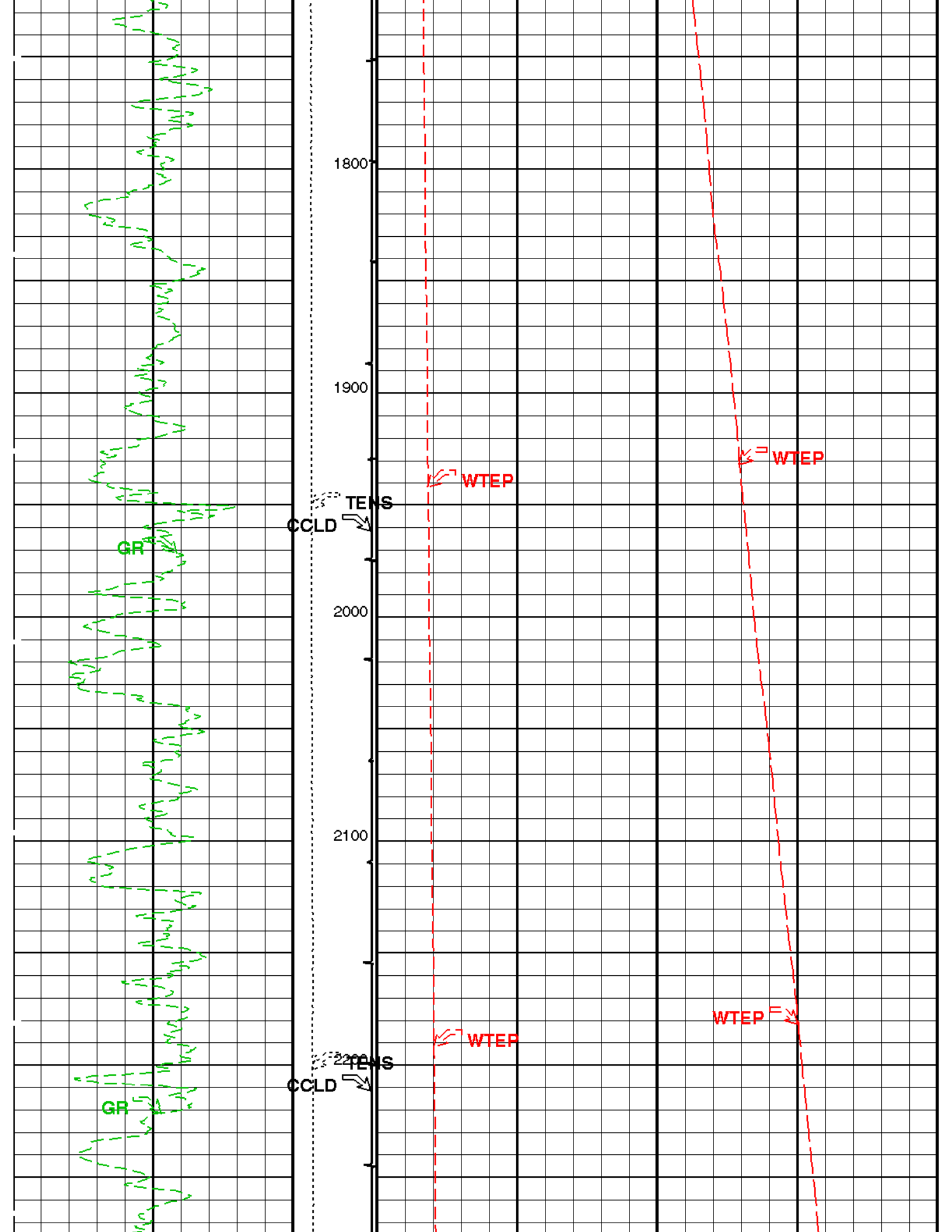
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GR
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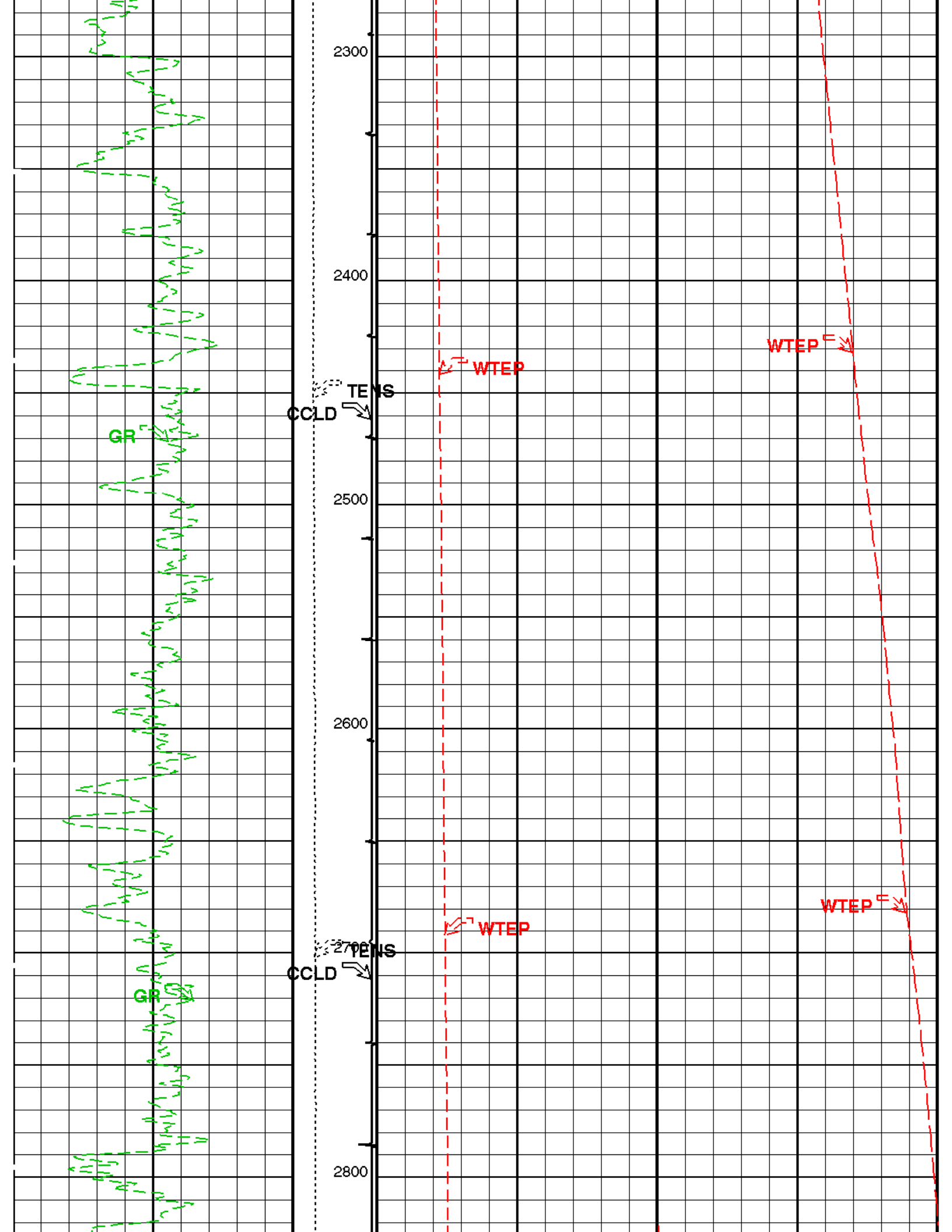
WTEP
WTEP
WTEP
TENS
CCLD
GR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2400
2500
2600
2700
2800
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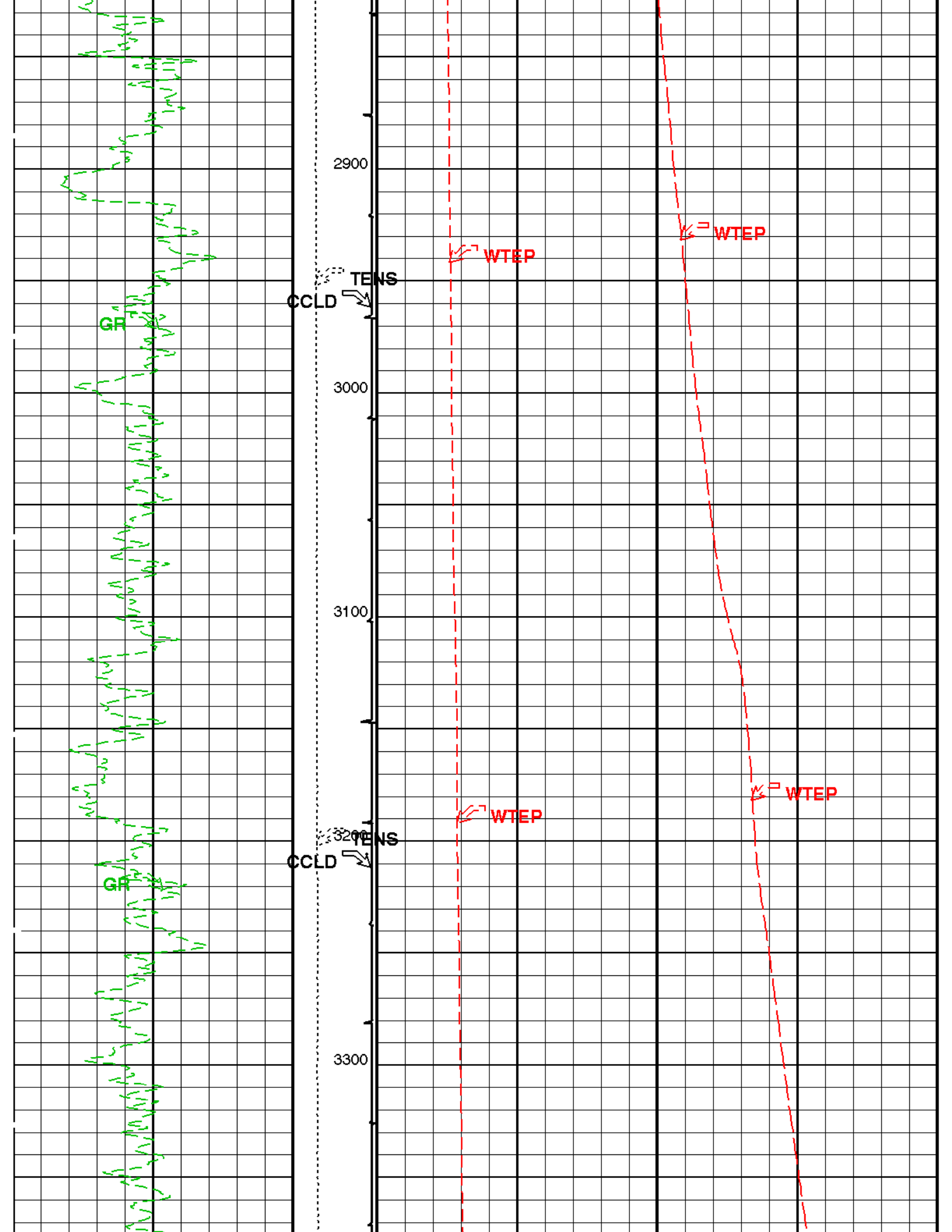
WTEP
WTEP
WTEP
TENS
CCLD
TENS
CCLD
GR
GR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3100
3200
3300
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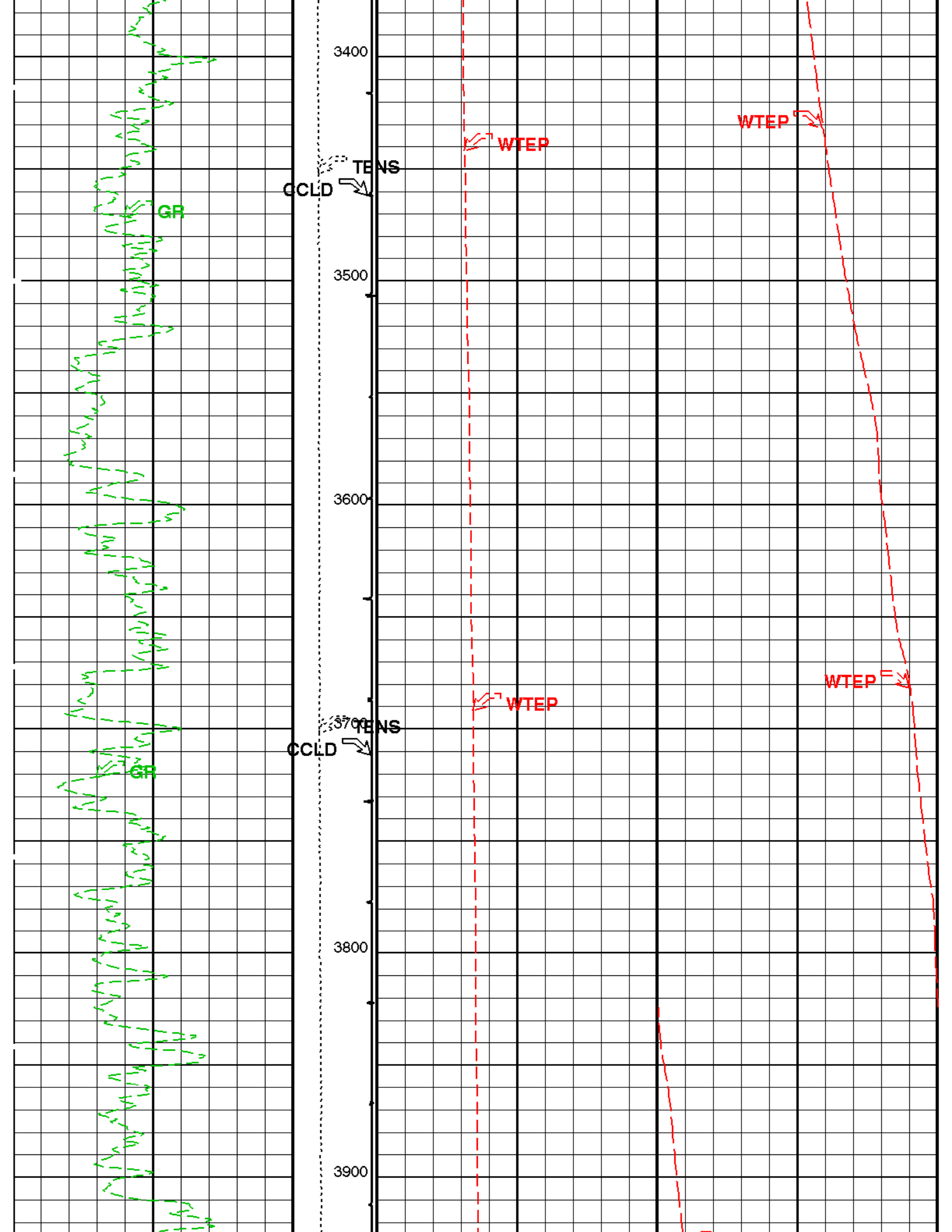
CCLD
GR
WTEP
WTEP
WTEP
WTEP
TENS
CCLD
GR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WTEP
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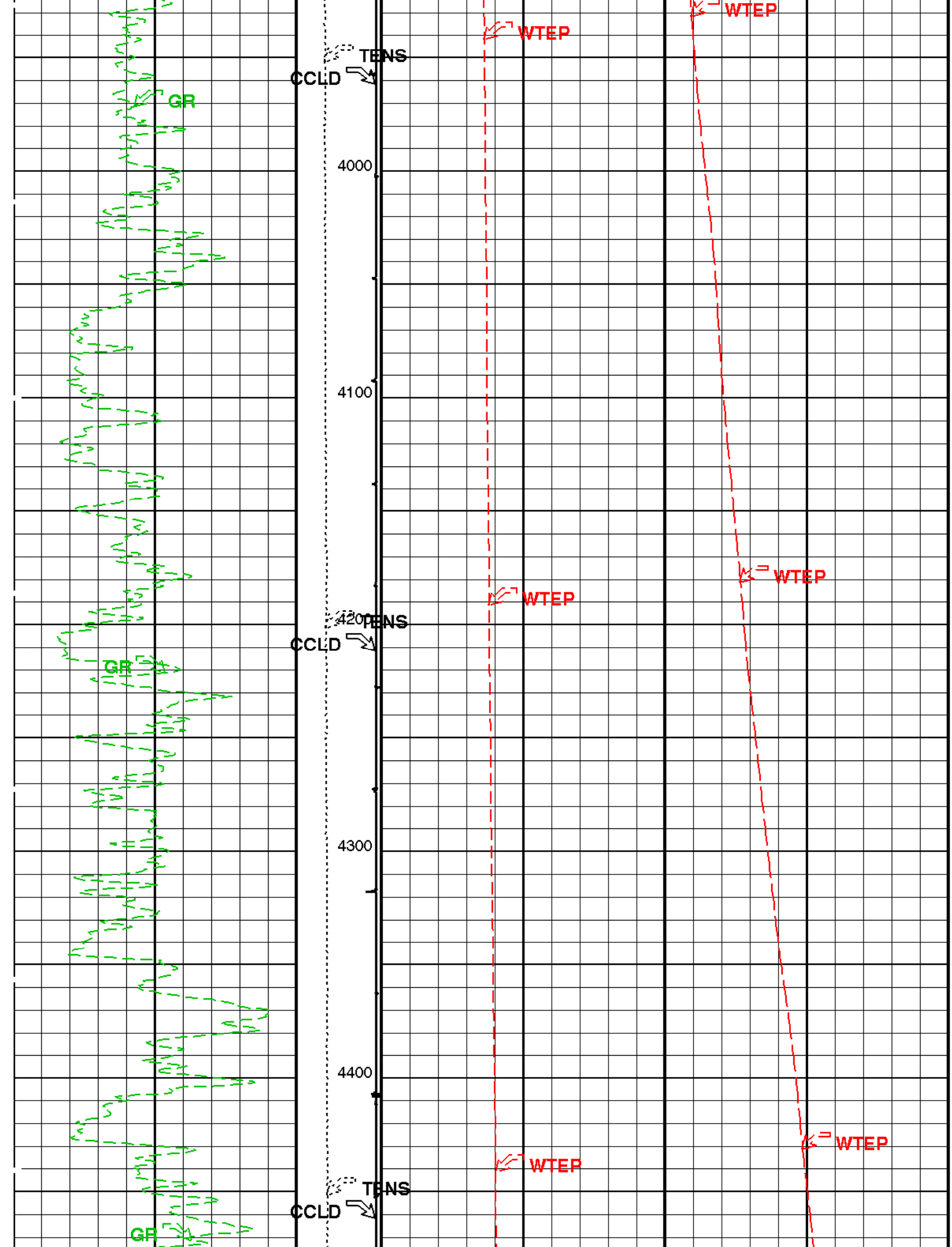
TENS
CCLD
GR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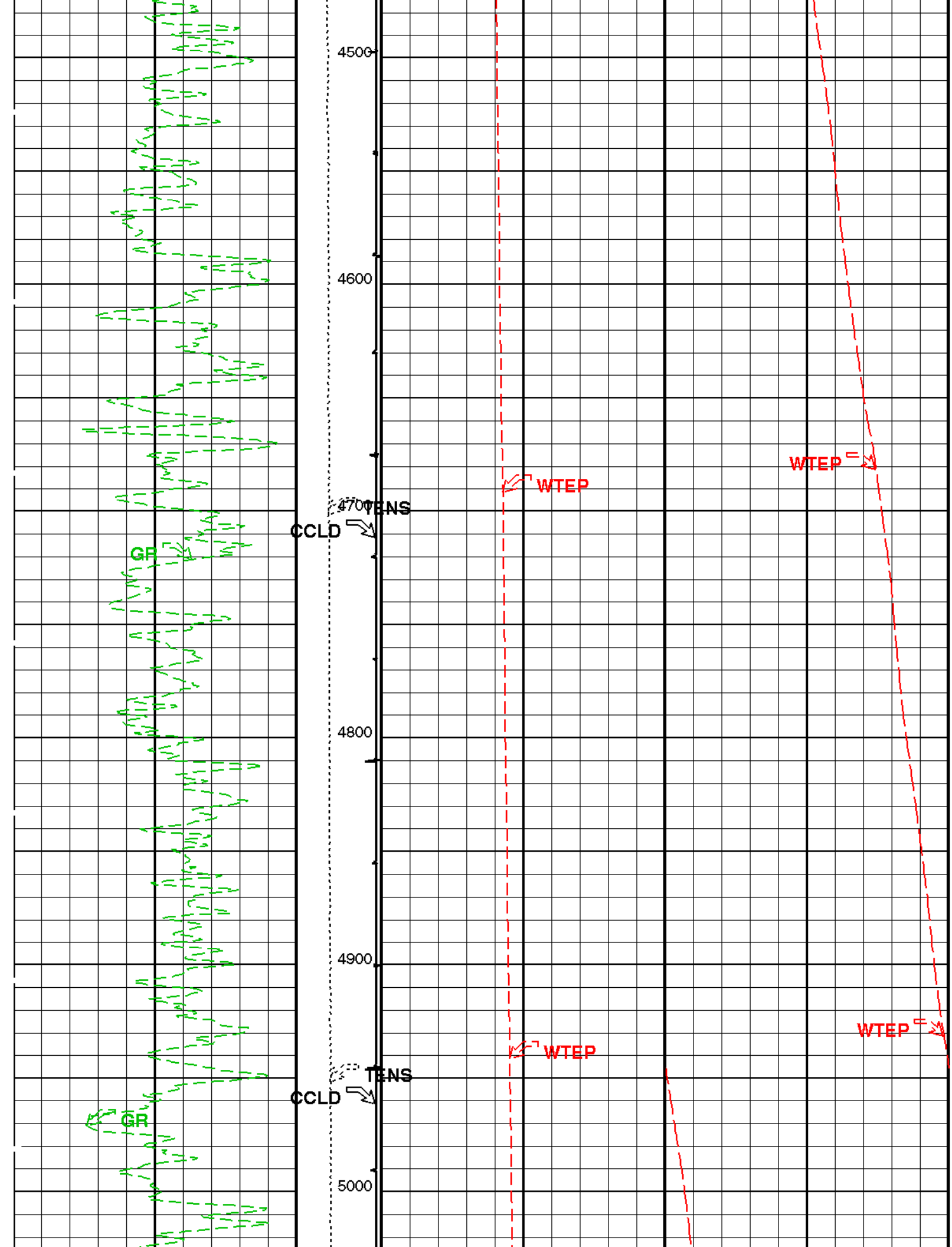
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CCLD
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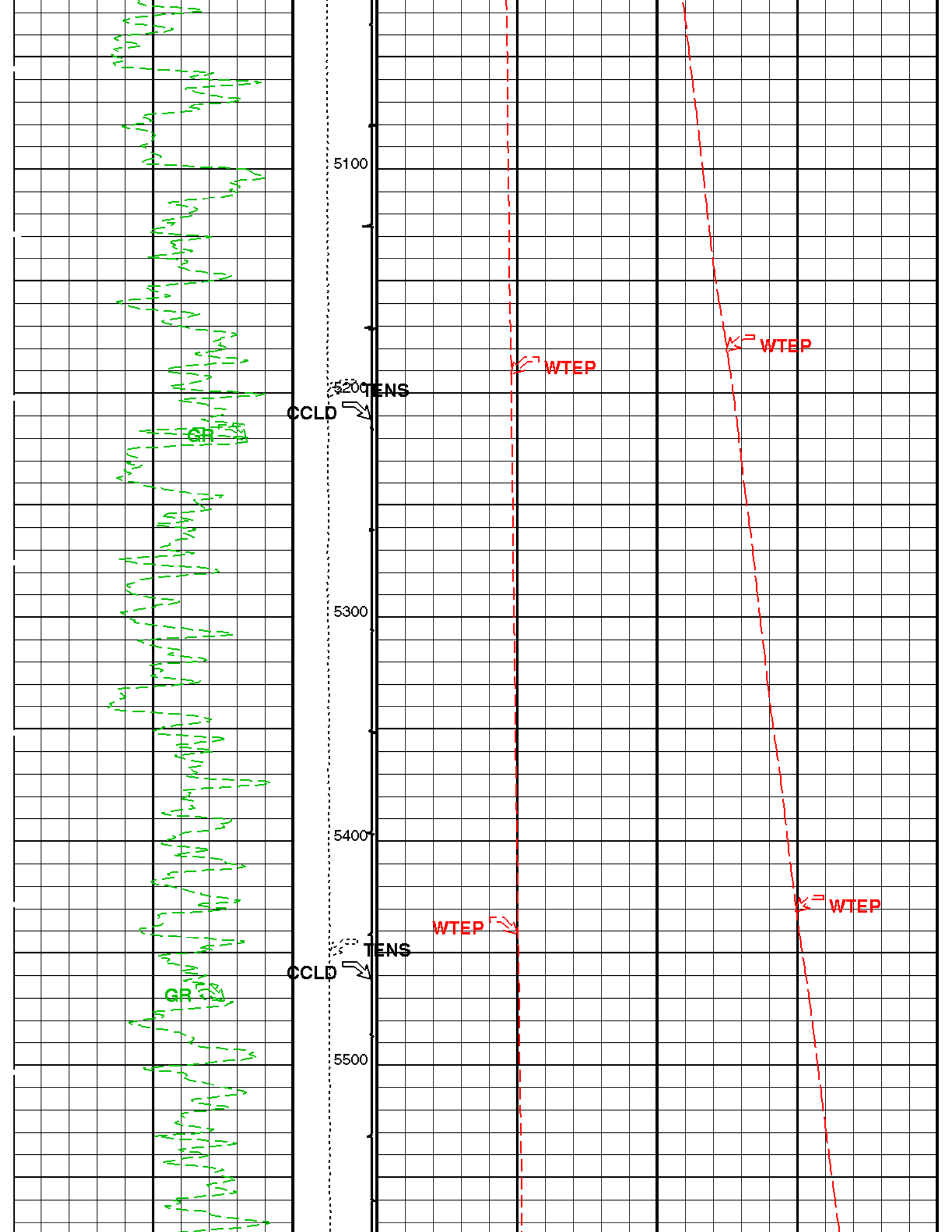
WTEP
WTEP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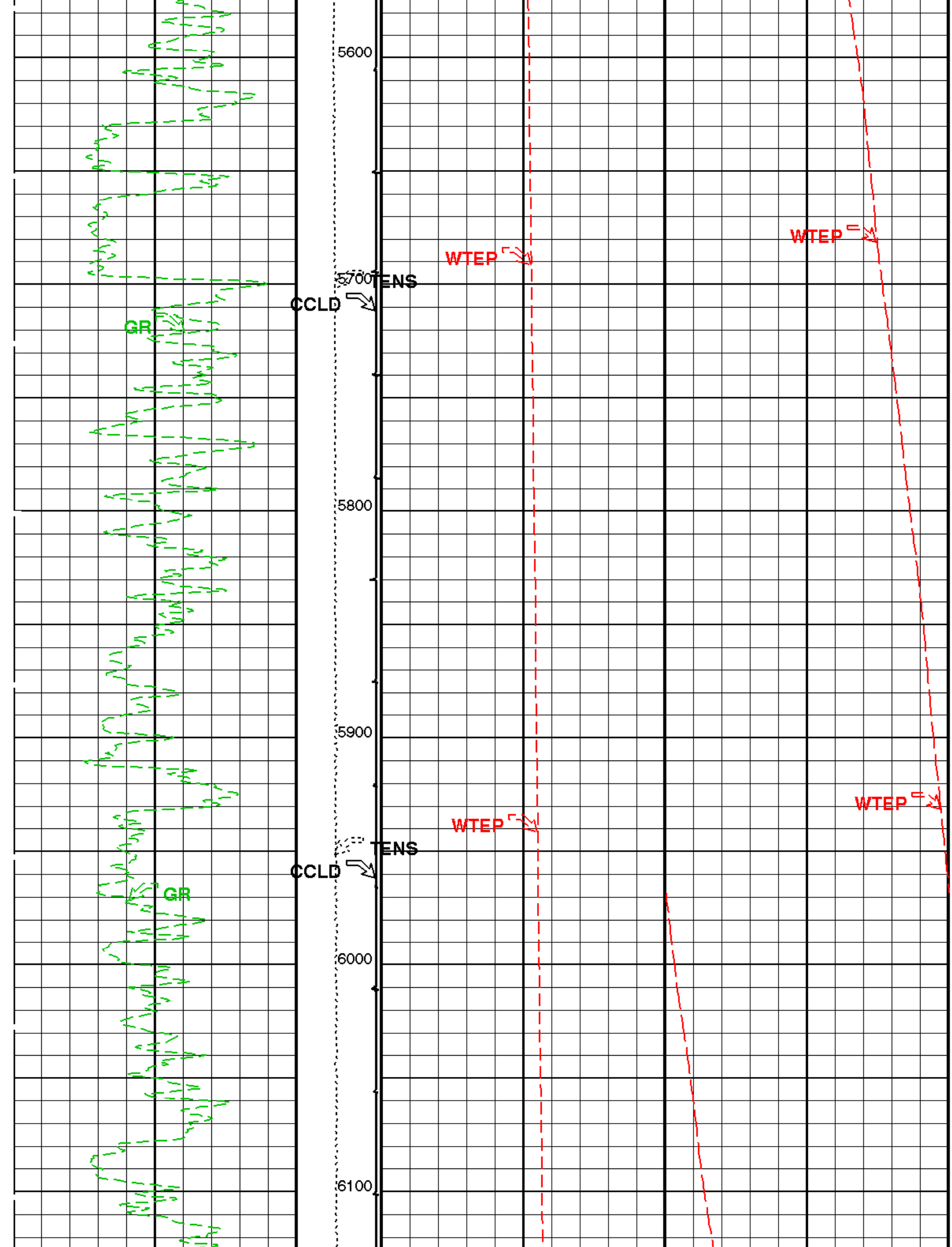
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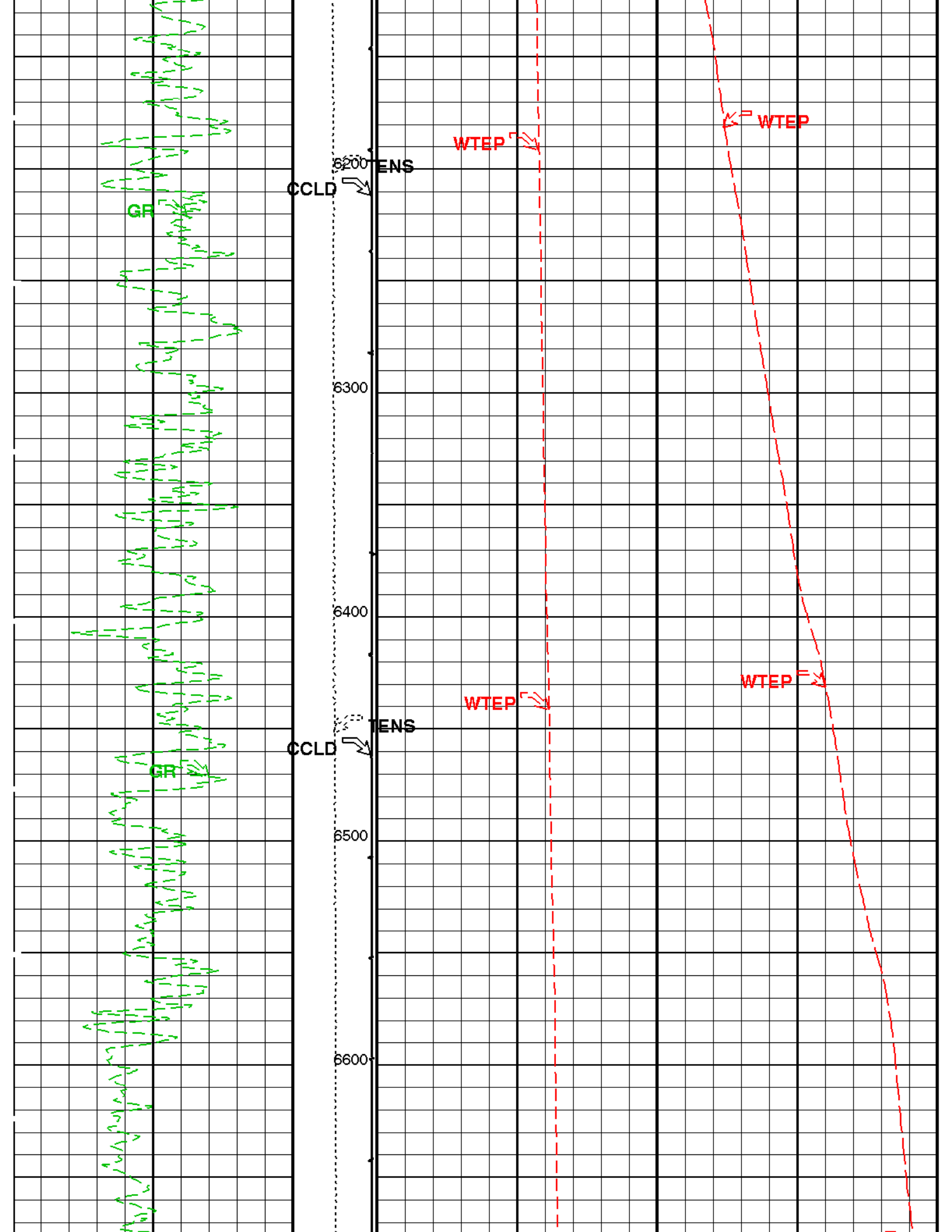
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GR
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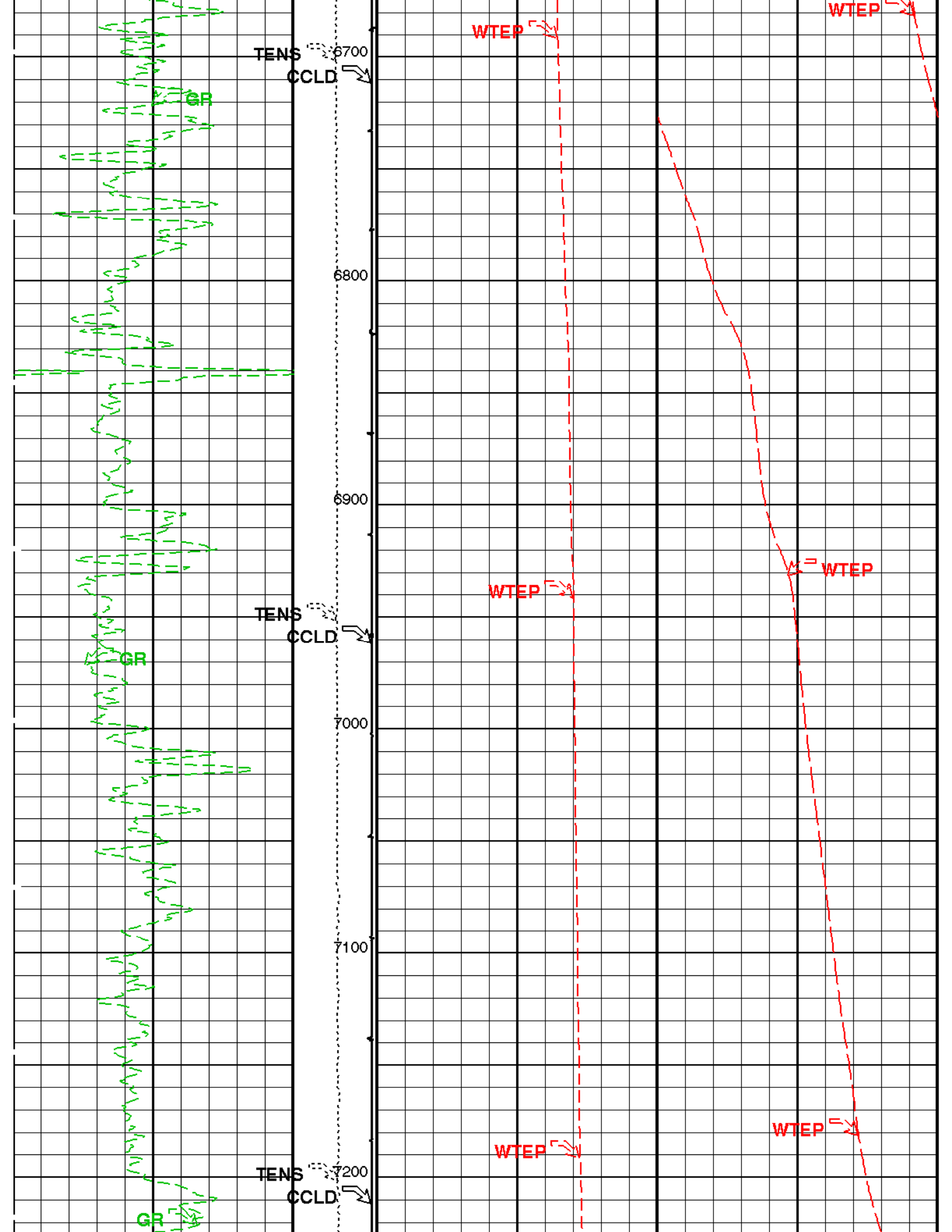
6600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6900
7000
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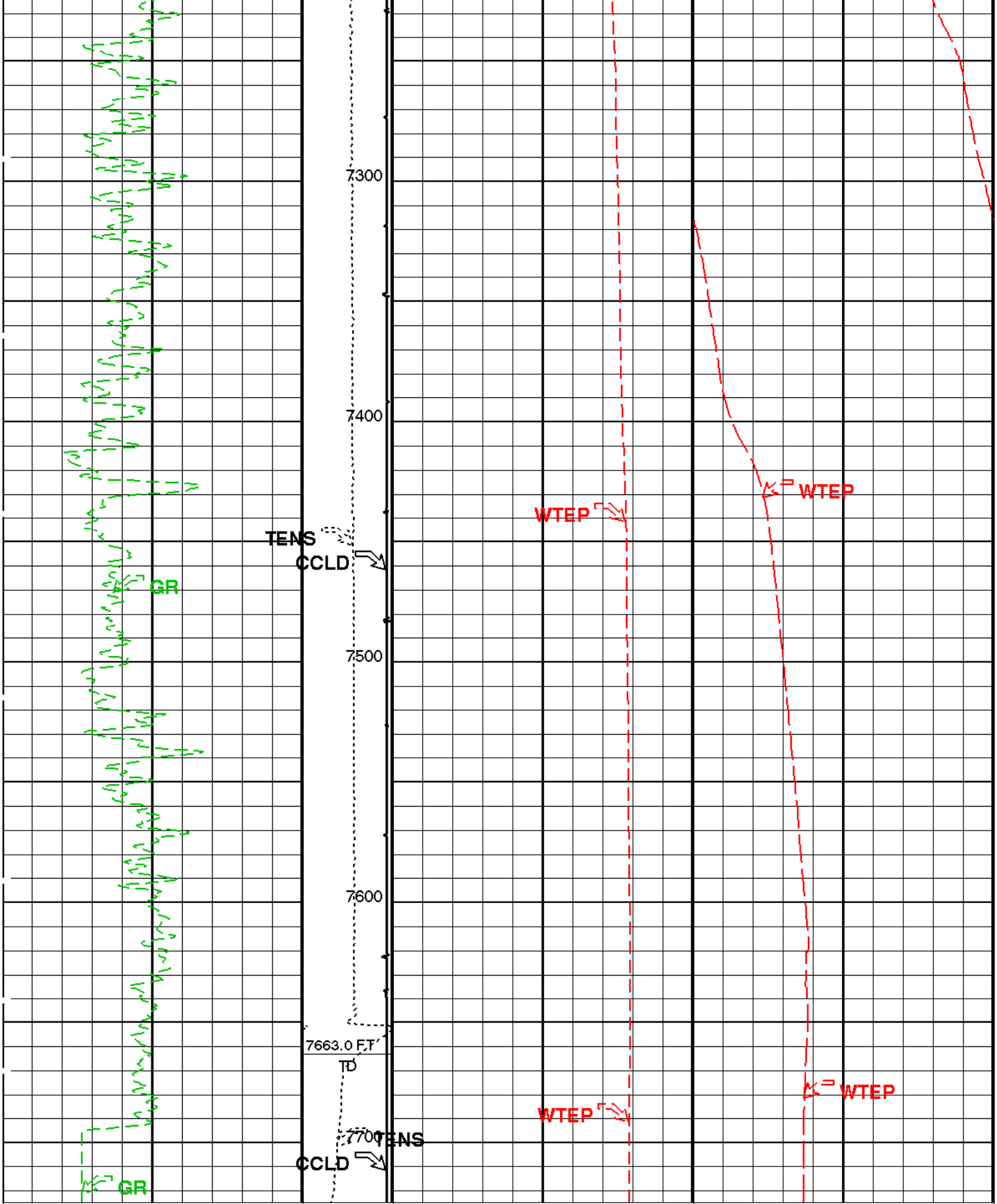
WTEP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7600
TENS
CCLD
GR
WTEP
WTEP
WTEP
WTEP
7663.0 FT
TD
7700
TENS
CCLD
GR
Gamma Ray (GR)
0
(GAPI)
150
Tension
(TENS)
(LBF)
0
2000
Well Temperature (WTEP)
50
(DEGF)
250
Well Temperature (WTEP)
0
(DEGF)
20
DISCRIMIN
ATED CCL

(CCLD)
11 (V) -1

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_S2 Vertical Scale: 2" per 100' Graphics File Created: 15-Jul-2009 05:17

OP System Version: 17C0-154

eWAFE Version: 1.139

SCMT-CB SRPC-3821-Q2_2009_OP17 PSPT-A/B SRPC-3821-Q2_2009_OP17

Parameters

DLIS Name	Description	Value	
	SCMT-CB: 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	228.424	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	342.424	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	80	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	0.255617	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	1.53811	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	171.424	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.27504	MV
MSA	Minimum Sonic Amplitude	0.572744	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
RBC	Relative Bearing Correction Allow/Disallow	DISALLOW	
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)	207	DEGF
CSID	Casing Size I.D.	4	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_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	DB24	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	7770.00	FT
TDL	Total Depth - Logger	7663.00	FT
	System and Miscellaneous		
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.35	LB/G
DO	Depth Offset for Playback	10.0	FT
FLEV	Fluid Level	22.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	

PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	7663	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Input DLIS Files

DEFAULT	SCMT_PSP_055LUP	FN:52	PRODUCER	15-Jul-2009 03:42	7715.0 FT	549.5 FT

Output DLIS Files

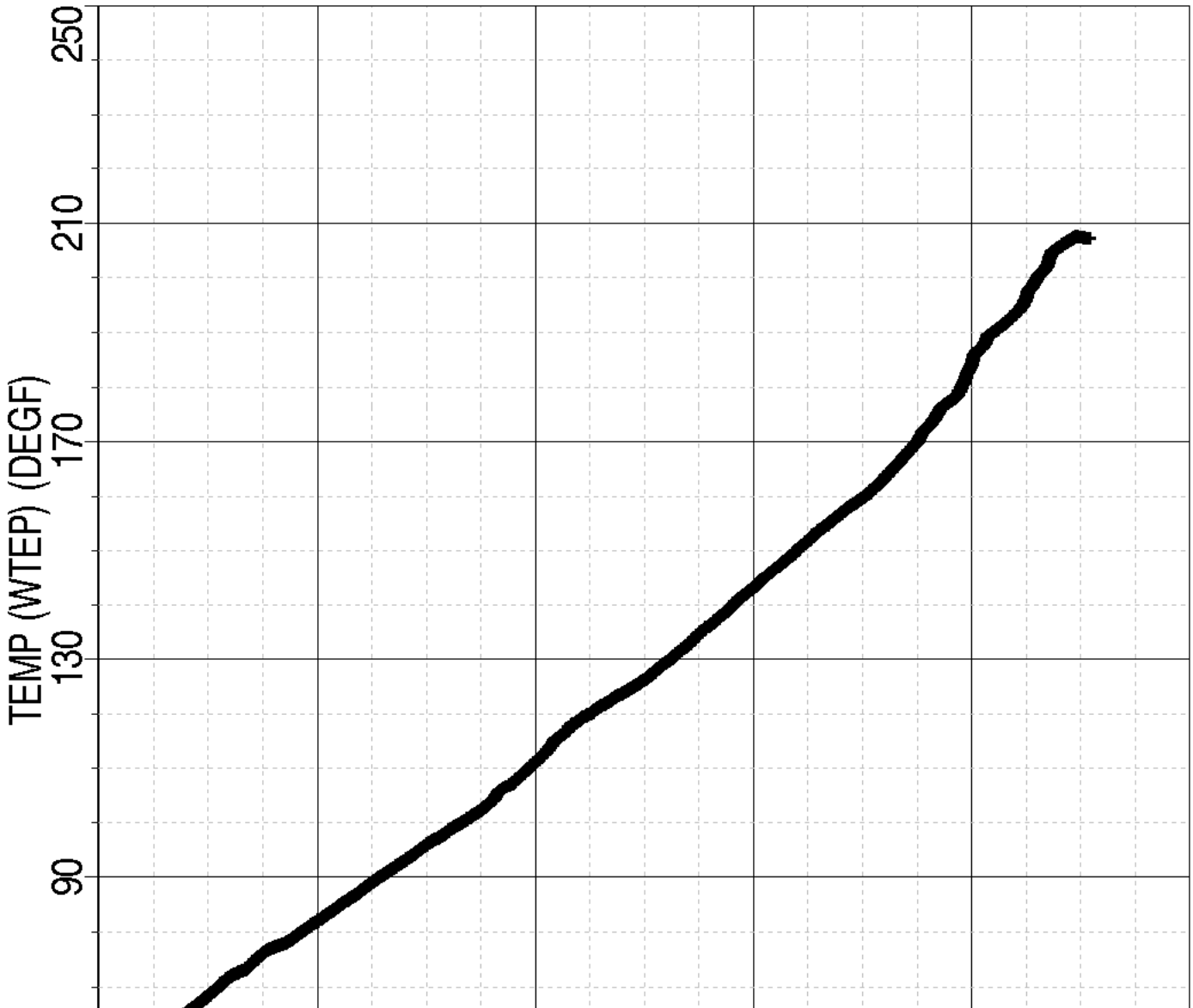
DEFAULT	SCMT_PSP_058PUP	FN:55	PRODUCER	15-Jul-2009 05:17

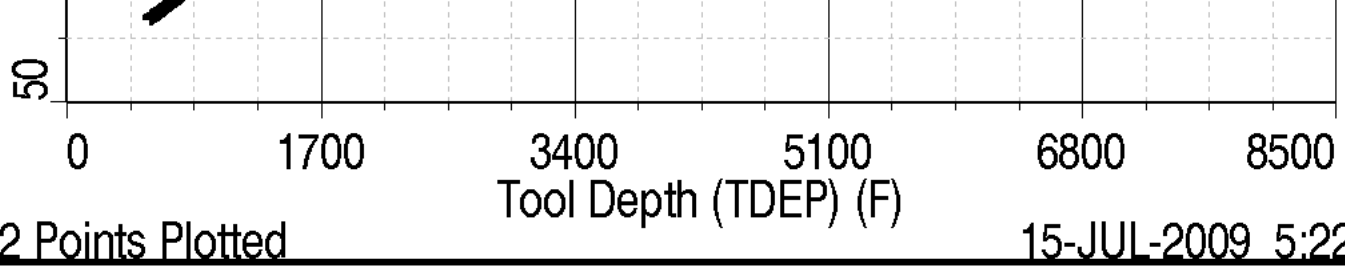
Schlumberger

TEMPERATURE PLOT

MAXIS Field Log

Index: 7725.0 - 559.5 FT





14332 Points Plotted 15-JUL-2009 5:22

Schlumberger

COEFFICIENTS

MAXIS Field Log

Client:	BILL BARRETT CORPORATION	**Tool:**	PSP
Field:	MAMM CREEK	**Sub Type:**	PBMS
Well:	BBC 12C-24-692	**Sensor:**	Clock Model
Run date:	14-Jul-2009		

PBMS Digitalization Clock

Sonde Serial NB	
Sensor Serial NB	3779
Calib Date ddmmyy	090107
Matrix Size	16
Coeff CRC	D285

Clock Coeff

	Temp**0	Temp**1	Temp**2
Temp**0	-.210501098404E+03	-.537713340627E+01	-.752421519422E-01

	Temp**3	Temp**4	Temp**5
Temp**0	+.630273975887E-03	+.266728381738E-05	0.0

Client:	BILL BARRETT CORPORATION	**Tool:**	PSP
Field:	MAMM CREEK	**Sub Type:**	PBMS
Well:	BBC 12C-24-692	**Sensor:**	Sapphire
Run date:	14-Jul-2009		

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB	COEFFICIENTS FOR SAPPHIRE PBMS-A.3779 S/N:
Sensor Serial NB	3779
Calib Date ddmmyy	090107
Matrix Size	66
Coeff CRC	4C82

Pres Coeff

	Tt**0	Tt**1	Tt**2
Tp**0	-.611876617639E+04	+.471061007964E+04	-.216447354932E+04
Tp**1	+.371836126905E+04	-.234756196935E+04	+.129149325686E+04
Tp**2	+.193143980957E+02	-.189348218853E+01	-.341812471126E+01
Tp**3	-.568815065386E+01	+.200079683569E+01	0.0
Tp**4	0.0	0.0	0.0
Tp**5	0.0	0.0	0.0

	Tt**3	Tt**4	Tt**5
Tp**0	+.380249508124E+03	-.247683004908E+02	0.0
Tp**1	-.227135245080E+03	+.146352372057E+02	0.0
Tp**2	0.0	0.0	0.0
Tp**3	0.0	0.0	0.0
Tp**4	0.0	0.0	0.0
Tp**5	0.0	0.0	0.0

PBMS Sapphire 10kPsi Gauge

Sonde Serial NB	:
Sensor Serial NB	3779
Calib Date ddmmyy	090107
Matrix Size	66
Coeff CRC	C39E

Temp Coeff

	Tp**0	Tp**1	Tp**2
Tt**0	-.278275571347E+03	+.251216271916E+01	-.820715649824E+00
Tt**1	+.598349067015E+02	-.107326373545E+01	+.652890183203E-01
Tt**2	+.109160002120E+02	+.262812193556E+00	-.450134240377E-02
Tt**3	-.673302171285E+00	-.213772918779E-01	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

	Tp**3	Tp**4	Tp**5

Tt**0	+.151507143209E+00	-.592670012996E-02	0.0
Tt**1	+.127486538512E-01	-.437897076104E-02	0.0
Tt**2	0.0	0.0	0.0
Tt**3	0.0	0.0	0.0
Tt**4	0.0	0.0	0.0
Tt**5	0.0	0.0	0.0

Client: BILL BARRETT CORPORATION
Field: MAMM CREEK
Well: BBC 12C-24-692
Run date: 14-Jul-2009

Tool: PSP
Sub Type: PBMS
Sensor: GR

PBMS Gamma Ray

Sonde Serial NB	RESISTORS FOR GR SENSOR N.34552,TOOL PBMS-AA3779. SENSOR S/N:
Sensor Serial NB	34552
Calib Date ddmmyy	030606
Matrix Size	12
Coeff CRC	3AE5

GR HV Rt

	Rt**0	Rt**1
Rt**0	+.200000000000e+04	+.214000000000e+04

Client: BILL BARRETT CORPORATION
Field: MAMM CREEK
Well: BBC 12C-24-692
Run date: 14-Jul-2009

Tool: PSP
Sub Type: PBMS
Sensor: WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB	**COEFFICIENTS FOR RTD THERMOMETER PBMS-A.3779 S/N:**
Sensor Serial NB	**3779**
Calib Date ddmmyy	**090107**
Matrix Size	**16**
Coeff CRC	**3846**

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	+.492135102627E+02	-.278827553804E+03	+.142867554561E+03

	Tt**3	Tt**4	Tt**5
Tt**0	-.233378392336E+02	+.145553494493E+01	0.0

Company: **BILL BARRETT CORPORATION**

Schlumberger

Well: **BBC 42D-23-692**
Field: **MAMM CREEK**
County: **GARFIELD**
State: **COLORADO**

CEMENT BOND LOG
CBL - VDL
GAMMA RAY - CCL

Schlumberger BlueView : converted PDS file