Schlumberger

Company: Caerus Operating LLC

Well: Puckett 12D-26-697

Field: Grand Valley

County: Garfield State: Colorado

Cement Bond Log

RST Sigma Log

Gamma Ray - Collar Locator Log

County: Garfield
Field: Grand Valley
Location: Mesa F26
Well: Puckett 12D-26-697
Company: Caerus Operating LLC

Location:				
Mesa F26		Elev.: K.B.	8352.00 ft	
		G.L.	8322.00 ft	
		D.F.	8352.00 ft	
Permanent Datum:	Ground Level	Elev.:	8322.00 f	
Log Measured From:	Kelly Bushing	30.00 ft	above Perm.Datum	
Drilling Measured From:	Kelly Bushing			

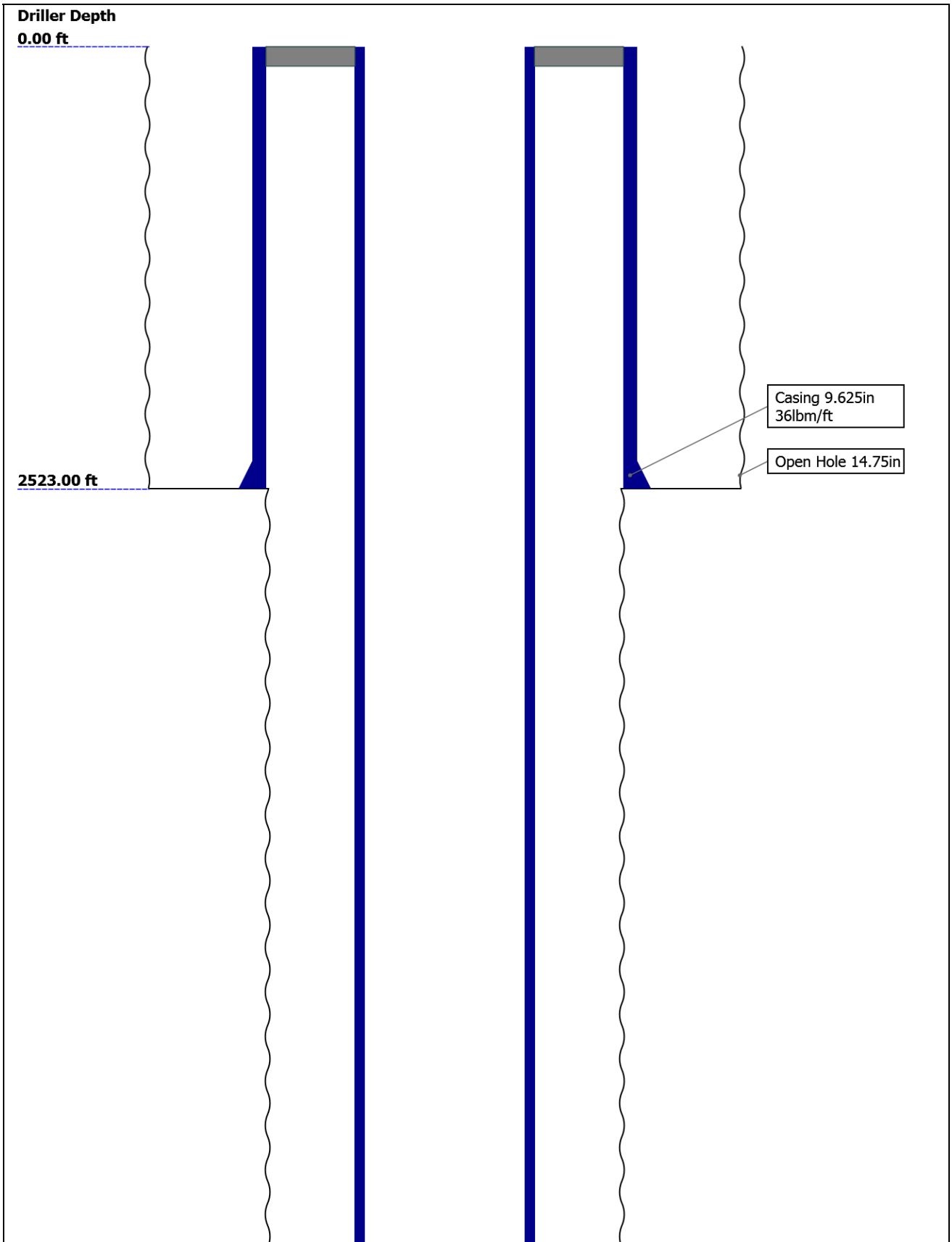
API Serial No.	Section:	Township:	Range:
05045234210000	26	6S	97W

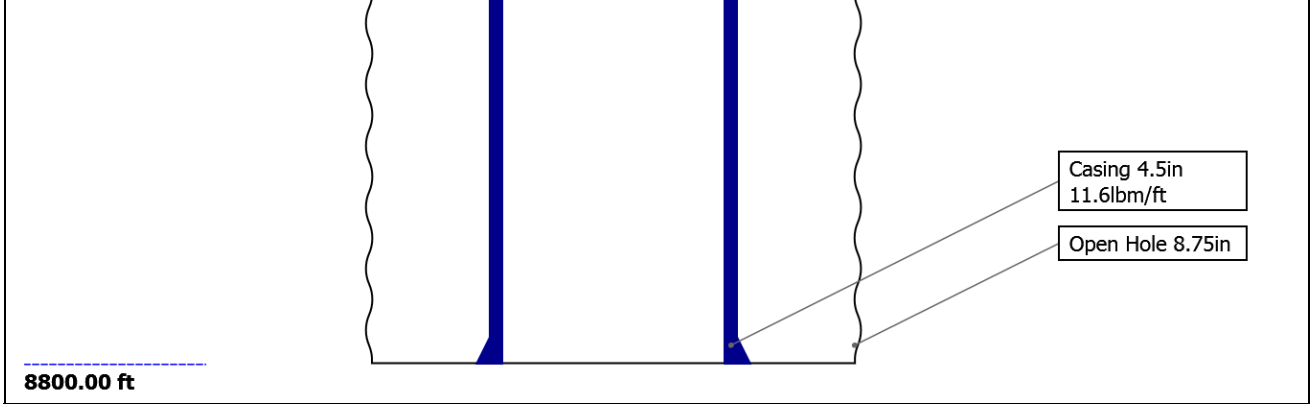
Logging Date		09-May-2018		21-May-2018	
Run Number		One		Two	
Depth Driller		8800.00 ft		8800.00 ft	
Schlumberger Depth		6258.00 ft		8753.00 ft	
Bottom Log Interval		6258.00 ft		8753.00 ft	
Top Log Interval		2300.00 ft		2300.00 ft	
Casing Fluid Type		2% KCL Water		2% KCL Water	
Salinity					
Density		8.49 lbm/gal		8.49 lbm/gal	
Fluid Level		8.00 ft		8.00 ft	
BIT/CASING/TUBING STRING					
Bit Size		8.75 in		8.75 in	
From		2523.00 ft		2523.00 ft	
To		6258.00 ft		8753.00 ft	
Casing/Tubing Size		4.5 in		4.5 in	
Weight		11.6 lbm/ft		11.6 lbm/ft	
Grade		P110		P110	
From		0.00 ft		0.00 ft	
To		6258.00 ft		8753.00 ft	
Max Recorded Temperatures		175.15 degF		223.14 degF	
Logger on Bottom	Time	09-May-2018	18:10:00	21-May-2018	09:08:00
Unit Number	Location:	3046	Evanston	3046	Evanston
Recorded By		Mauricio Castaneda		Justin Ray	
Witnessed By		Ryan Tompkins		Ryan Tompkins	

Disclaimer

Contents

Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2523				
Top Logger (ft)	0	2523				
Bottom Driller (ft)	2523	8800				
Bottom Logger (ft)	2523	8753				
Casing						
Size (in)	9.625	4.5				
Weight (lbm/ft)	36	11.6				
Inner Diameter (in)	8.921	4				
Grade	J55	P110				
Top Driller (ft)	0	0				
Top Logger (ft)	0	0				
Bottom Driller (ft)	2523	8800				
Bottom Logger (ft)	2523	8753				

Remarks and Equipment Summary

One: Remarks	Two: Remarks
Tool Ran as per tool Sketch	Tool string ran as per tool Sketch
3xGemcos used to enhance centralization	Gemcos used to enhance centralization
Max temperature 175.15 F	TD@ 8753ft
Schlumberger TD@ 6258 ft. It is 2542ft shallower than driller depth	Max temprature 223.14 F
Thank you for choosing Schlumberger	Thank you for choosing Schlumberger

One: Toolstring

Equip name	Length	MP name	Offset
PEH-E	**53.4**		
AH-38	**51.72**		
PSTP-A:3781	**51.44**		
1		**GR**	**47.74**
PSC-A:3781		**PSTC**	**47.44**
PSTC-A:859		**PSTC Tool String Bottom**	**0.00**
PBMS-A:3781		**Temperature**	**44.65**
Sapphire 10kP SI:33930		**Sapphire Pressure**	**44.54**
		CCL	**43.92**
		PBMS	**43.17**
RST-C:424	**43.17**		
RSCH-A:277			

Two: Toolstring

Equip name	Length	MP name	Offset
PEH-EFA	**54.08**		
AH-38	**51.72**		
PSTP-A:3781	**51.44**		
1		**GR**	**47.74**
PSC-A		**PSTC**	**47.44**
PSTC-A		**PSTC Tool String Bottom**	**0.00**
PBMS-A:3781		**Temperature**	**44.65**
Sapphire 10kP SI		**Sapphire Pressure**	**44.54**
		CCL	**43.92**
		PBMS	**43.17**
RST-C:312	**43.17**		
RSCH-A:277			

RSC-L:295
RSS-A:373
MNTR-F:1258
RSXH-A:417
RSX-E:424

RSC-E 36.82
Far 34.06
Near 33.56
RSX-E 20.15
DT 11.06
CBL5 9.56
DTSC 9.56
CBL3 8.56
MAP 8.06
AUX 7.06
SCMT 2.74
TOOL_ZERO

SCMT-CB:8261 **20.15**
SECH-CA
SCMC-CA:8150
CMIR-AG
SCMS-CB:8261
SCMX-CA:8200

BNS-P **0.14**

Lengths are in ft
Maximum Outer Diameter = 1.720 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

RSC-E:295
RSS-A:373
MNTR-F:1258
RSXH-A:309
RSX-E:312

RSC-E 36.82
Far 34.06
Near 33.56
RSX-E 20.15
DT 11.06
CBL5 9.56
DTSC 9.56
CBL3 8.56
MAP 8.06
AUX 7.06
SCMT 2.74
TOOL_ZERO

SCMT-CB:8231 **20.15**
SECH-CA
SCMC-CA:8089
CMIR-AG
SCMS-CB:8231
SCMX-CA:8194
BNS-P

Lengths are in ft
Maximum Outer Diameter = 1.720 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

	One	Two	
Depth Measuring Device			
Type	IDW-B	IDW-B	
Serial Number	6459	6459	
Calibration Date	22-Jan-2018	22-Jan-2018	
Calibrator Serial Number	20	20	
Calibration Cable Type	1-25AXXS	1-25AXXS	
Wheel Correction 1	-5	-5	
Wheel Correction 2	-2	-2	
Tension Device			
Type	CMTD-B/A	CMTD-B/A	
Serial Number	5036	5036	
Calibration Date	03-Apr-2018	03-May-2018	
Calibrator Serial Number	86479A	86479A	
Number of Calibration Points	10	10	
Calibration Root Mean Square Error	5	5	
Calibration Peak Error	3	3	
Logging Cable			
Type	1-25ZA-XXS	1-25ZA-XXS	
Serial Number	F112140	F112140	
Length	20000.00 ft	15000.00 ft	
Conveyance Type	Wireline	Wireline	
Rig Type	Rigless	Rigless	

One:Depth Control Parameters		Depth Control Remarks
Log Sequence	First Log In the Well	Schlumberger depth control procedures followed
Rig Up Length At Surface		IDW used as primary depth measurement
Rig Up Length At Bottom		Z-chart used as secondary depth measurement
Rig Up Length Correction		Log down used as reference pass for correlation
Stretch Correction	8.98 ft	
Tool Zero Check At Surface	30.00 ft	

Two:Depth Control Parameters		Depth Control Remarks
Log Sequence	Subsequent Trip To the Well	Schlumberger depth control procedures followed
Reference Log Name	RST-SCMT Schlumberger	IDW used as primary depth measurement
Reference Log Run Number	One	Z-chart used as secondary depth measurement
Reference Log Date	09-May-2018	Log One used for correlation. Depth correction 9.9ft
Subsequent Trip Down Log Correction	9.90 ft	Correlation interval 6258-5920ft

Composite 1

CBL-VDL Main Pass

Software Version

Acquisition System	Version
Maxwell 2018	8.0.95333.3100
Application Patch	Wireline_NPD-PNX-2018CMZ_8.0.100887

Application Patch

Wireline_NPD-PNX-2018CMZ_8.0.100887

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[6]:Up	Up	2296.87 ft	6282.73 ft	09-May-2018 18:10:22	09-May-2018 20:32:21	ON	9.15 ft	Yes
Two	Log[8]:Up	Up	5907.38 ft	7369.78 ft	21-May-2018 06:45:32	21-May-2018 07:38:10	ON	9.90 ft	No
Two	Log[12]:Up	Up	6908.96 ft	8765.97 ft	21-May-2018 09:42:48	21-May-2018 10:45:24	ON	9.90 ft	No

All depths are referenced to toolstring zero

Log

Company:Caerus Operating LLC Well:Puckett 12D-26-697

Composite 1:S016

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-May-2018 11:31:21

TIME_1900 - Time Marked every 60.00 (s)

BIEP - Bond Index Event Pips SCMT-CB[1]

Transit Time for CBL (TT) SCMT-CB[1]

400 us 200

CCL Discriminated Amplitude (CCLD) PSTP-A[1]

-19 V 1

Gamma Ray (GR) PSTP-A[1]

0 gAPI 150

Cable Tension (TENS)

0 lbf 1500

CBL Amplitude (CBL) SCMT-CB[1]

0 mV 10

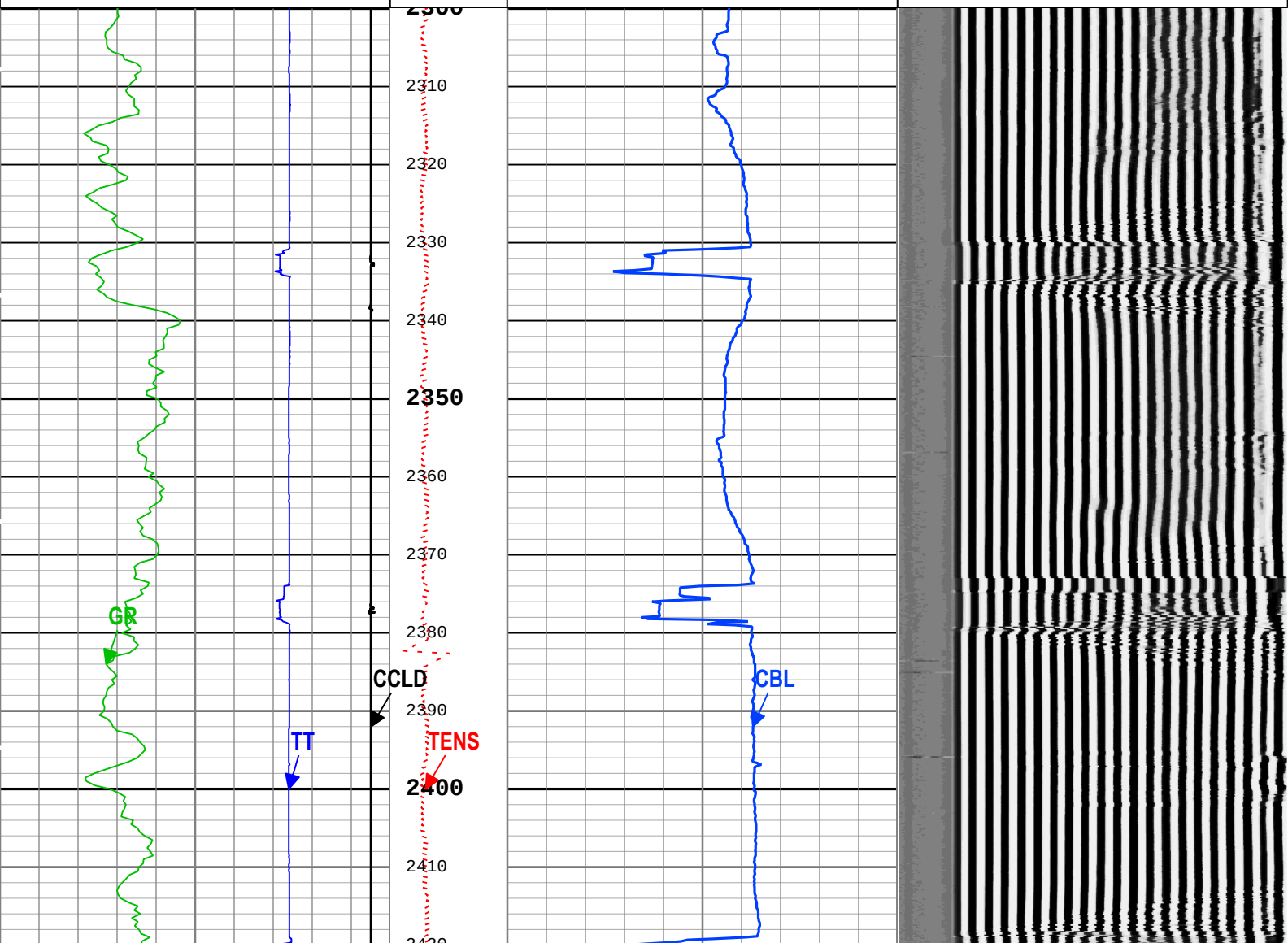
CBL Amplitude (CBL) SCMT-CB[1]

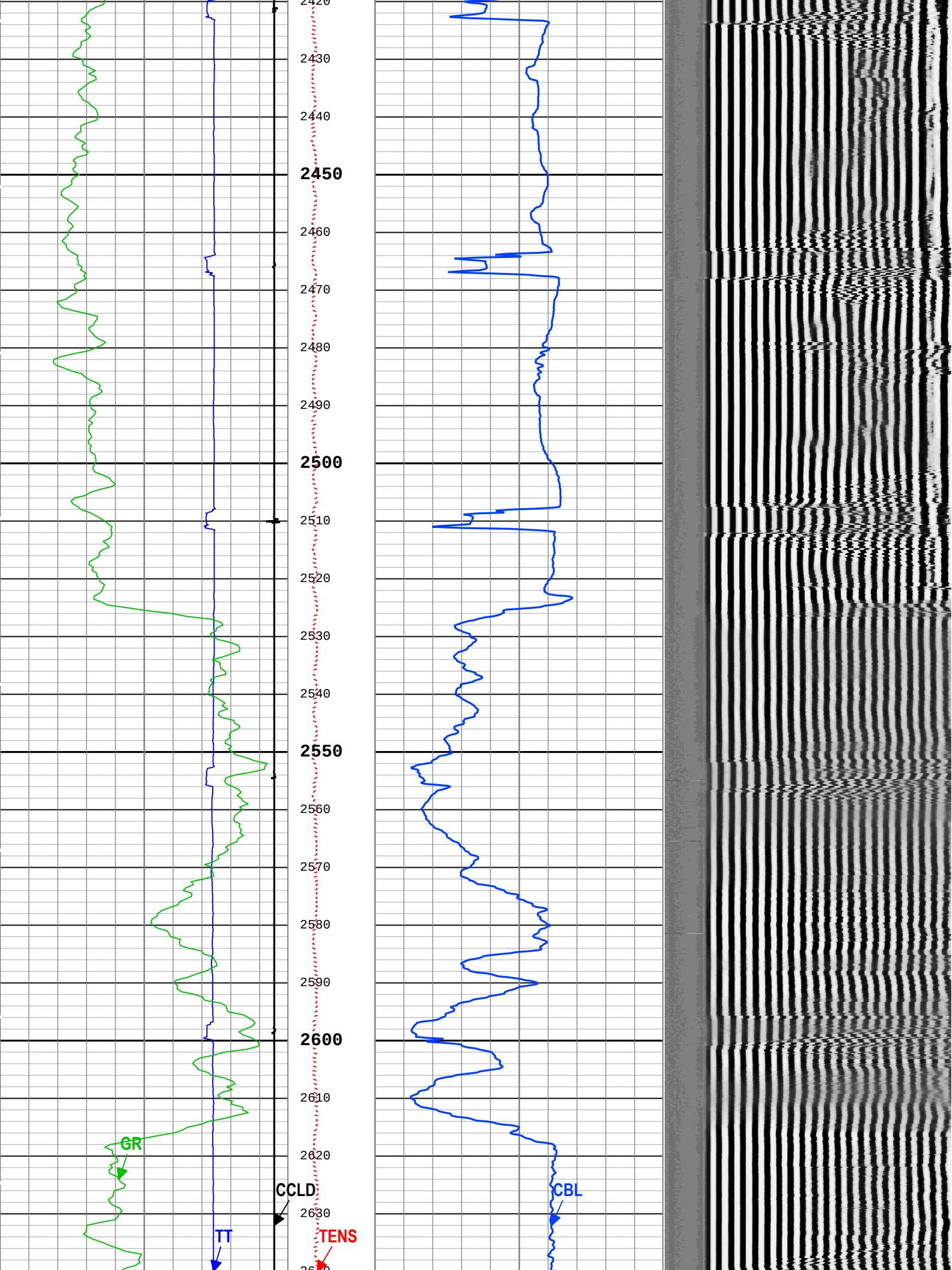
0 mV 100

Min Amplitude Max

VDL VariableDensity (VDL) SCMT-CB[1]

200 us 1200

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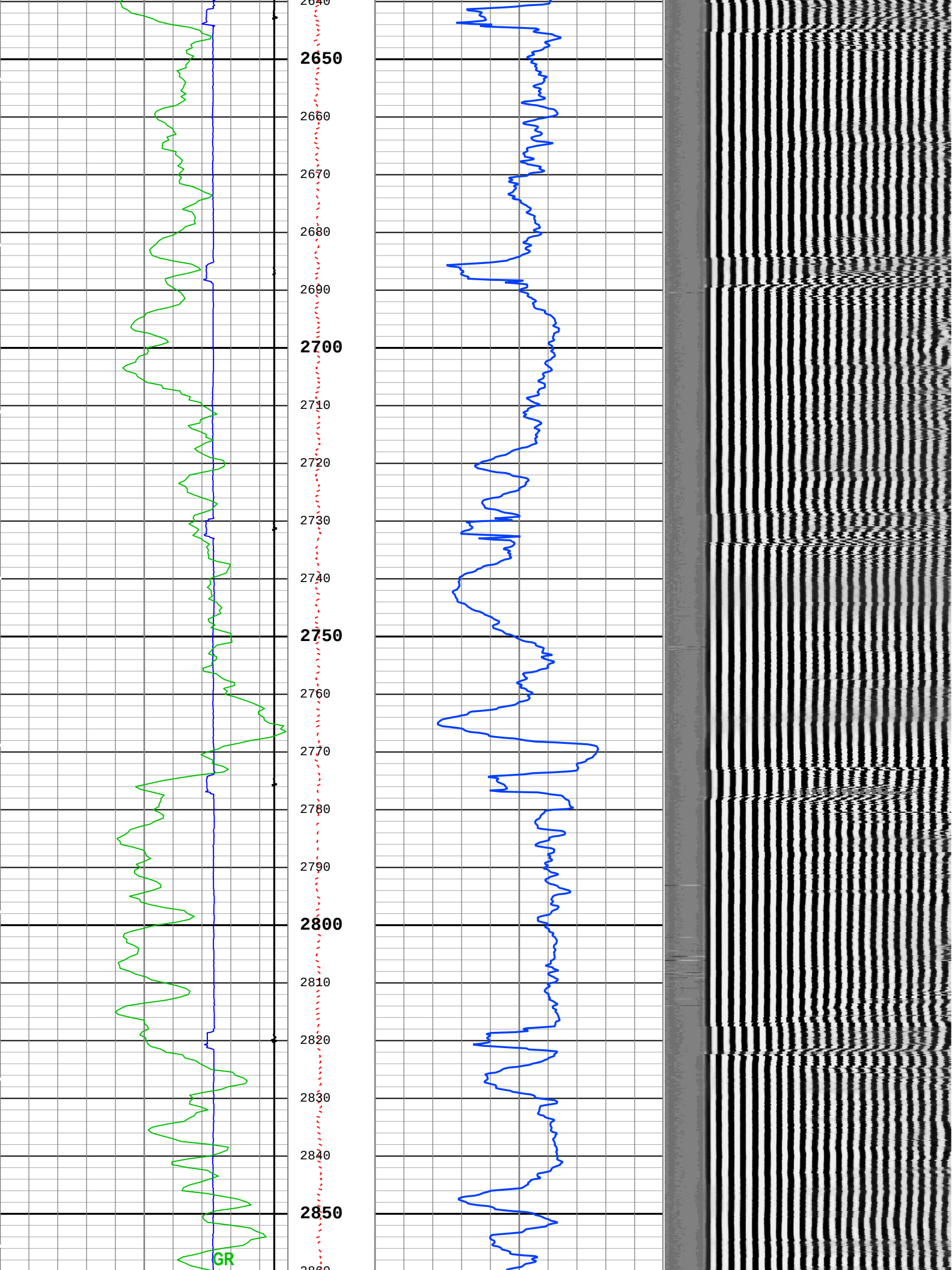
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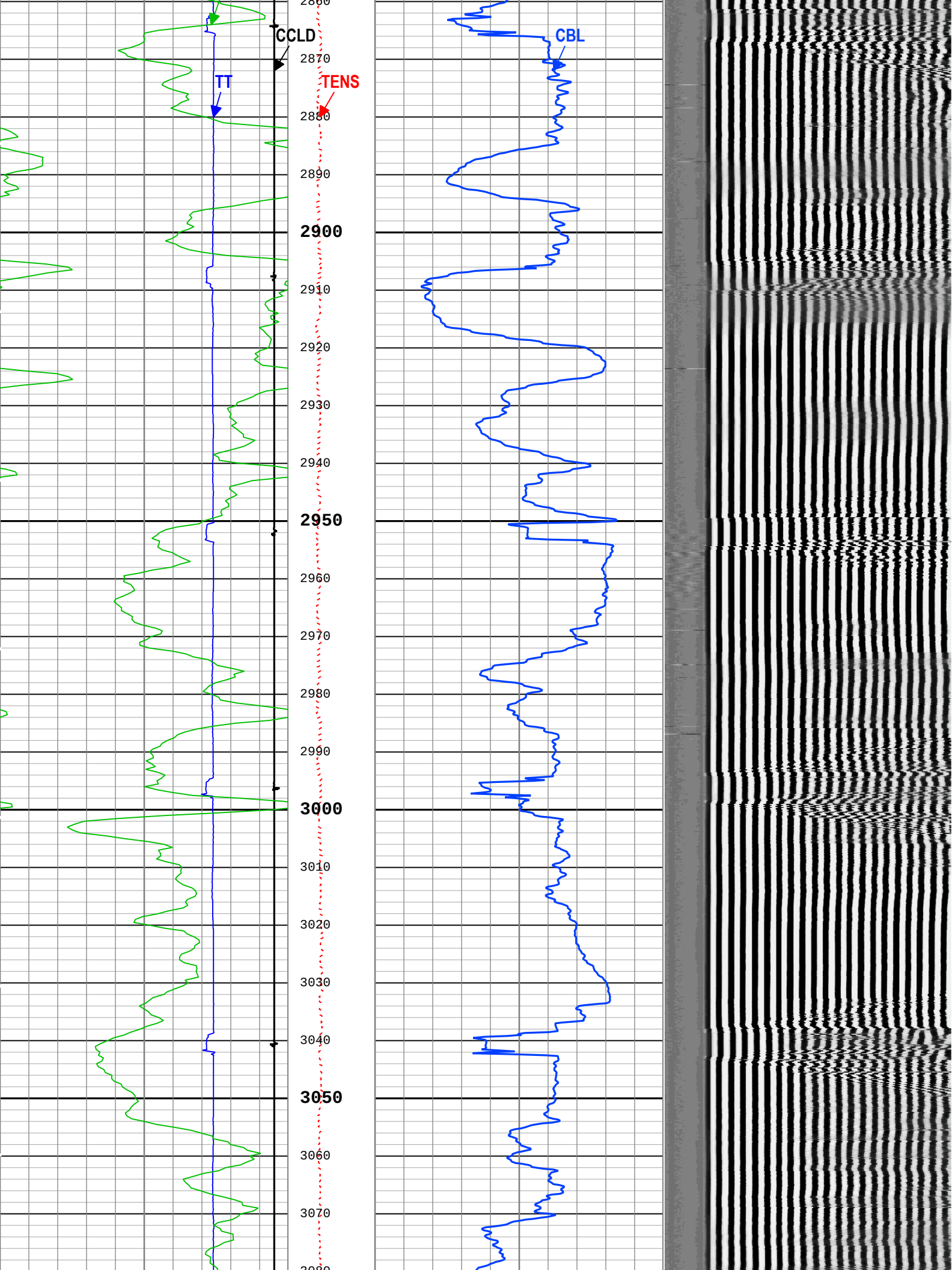
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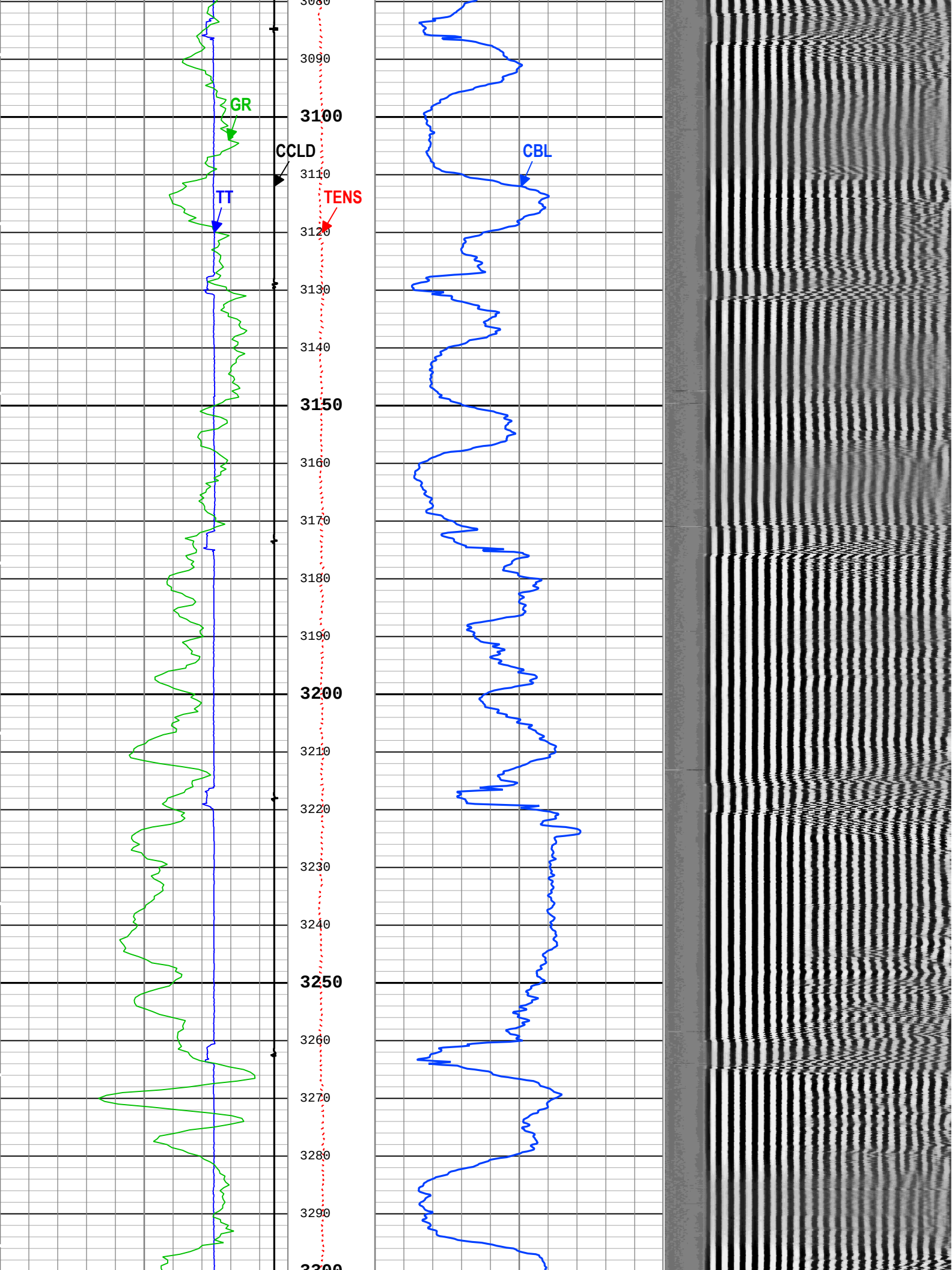
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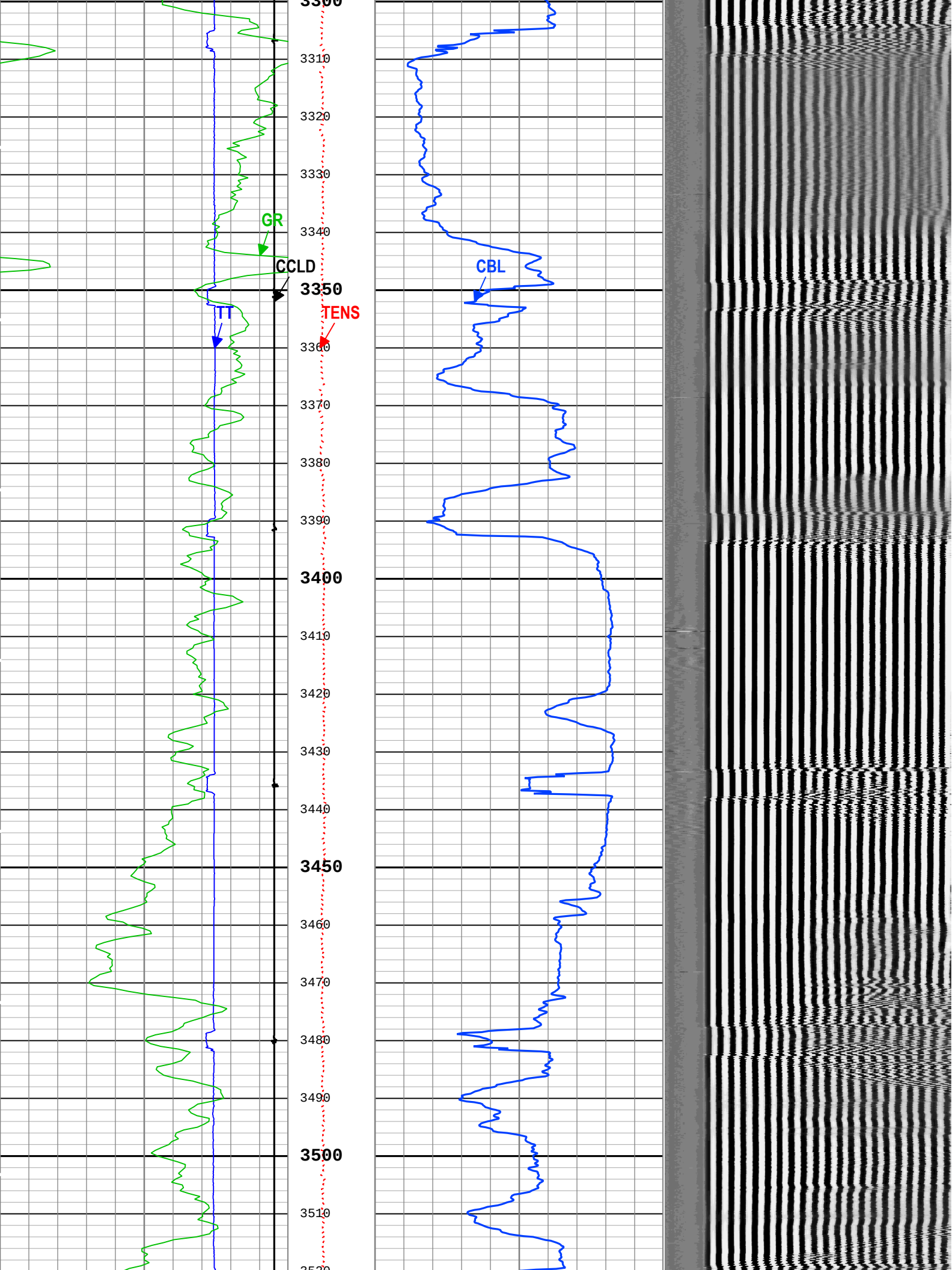
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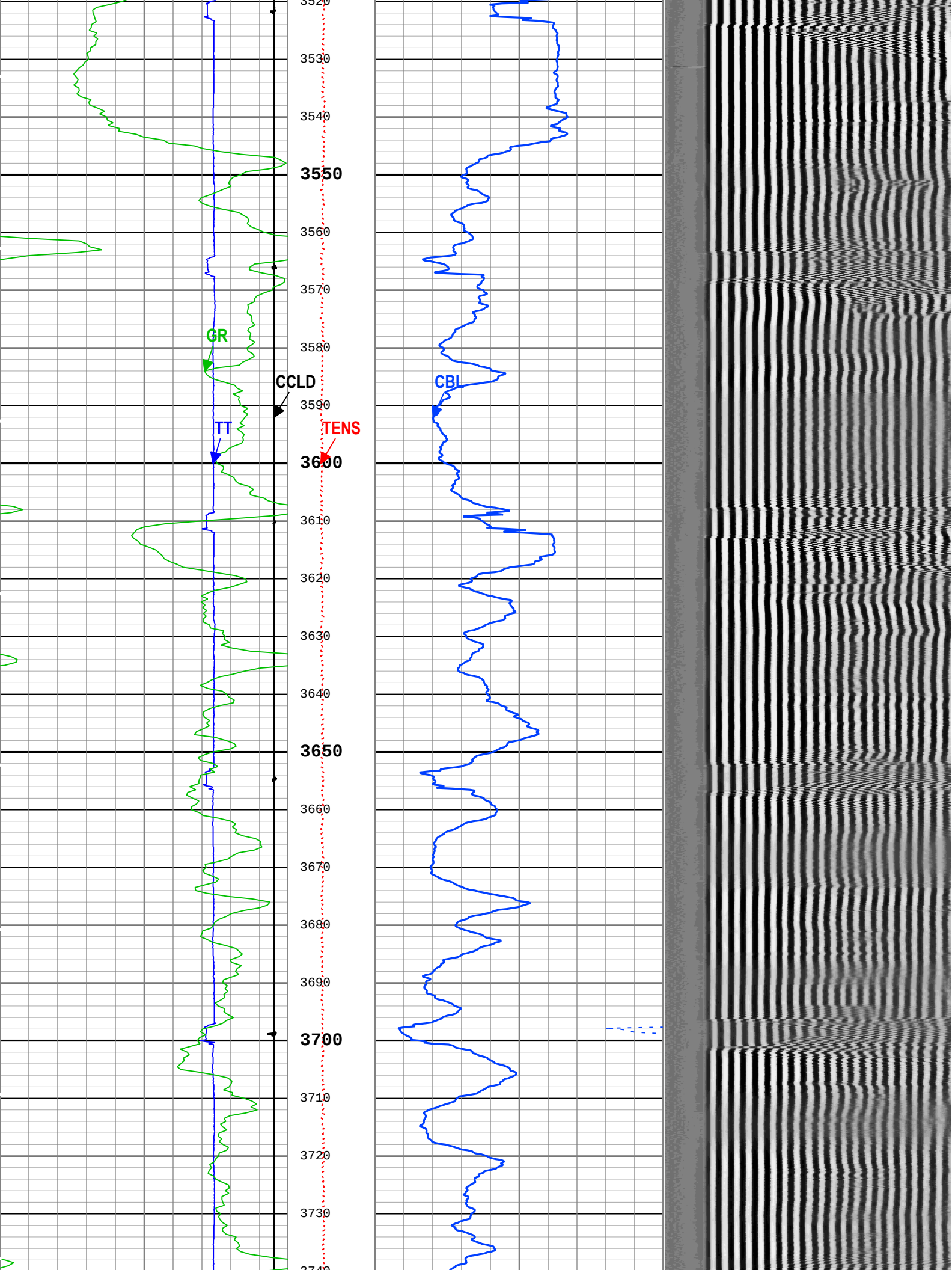
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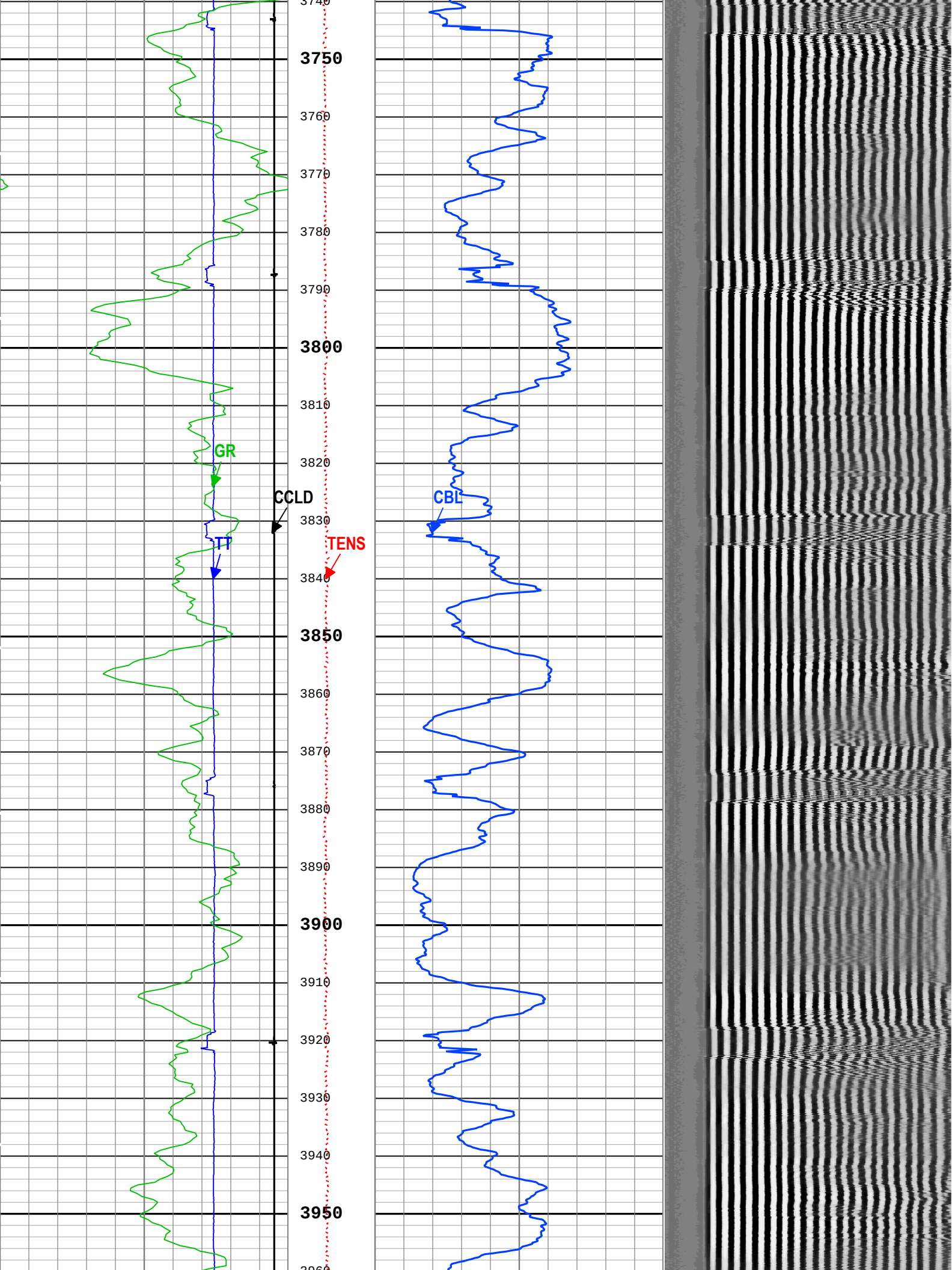
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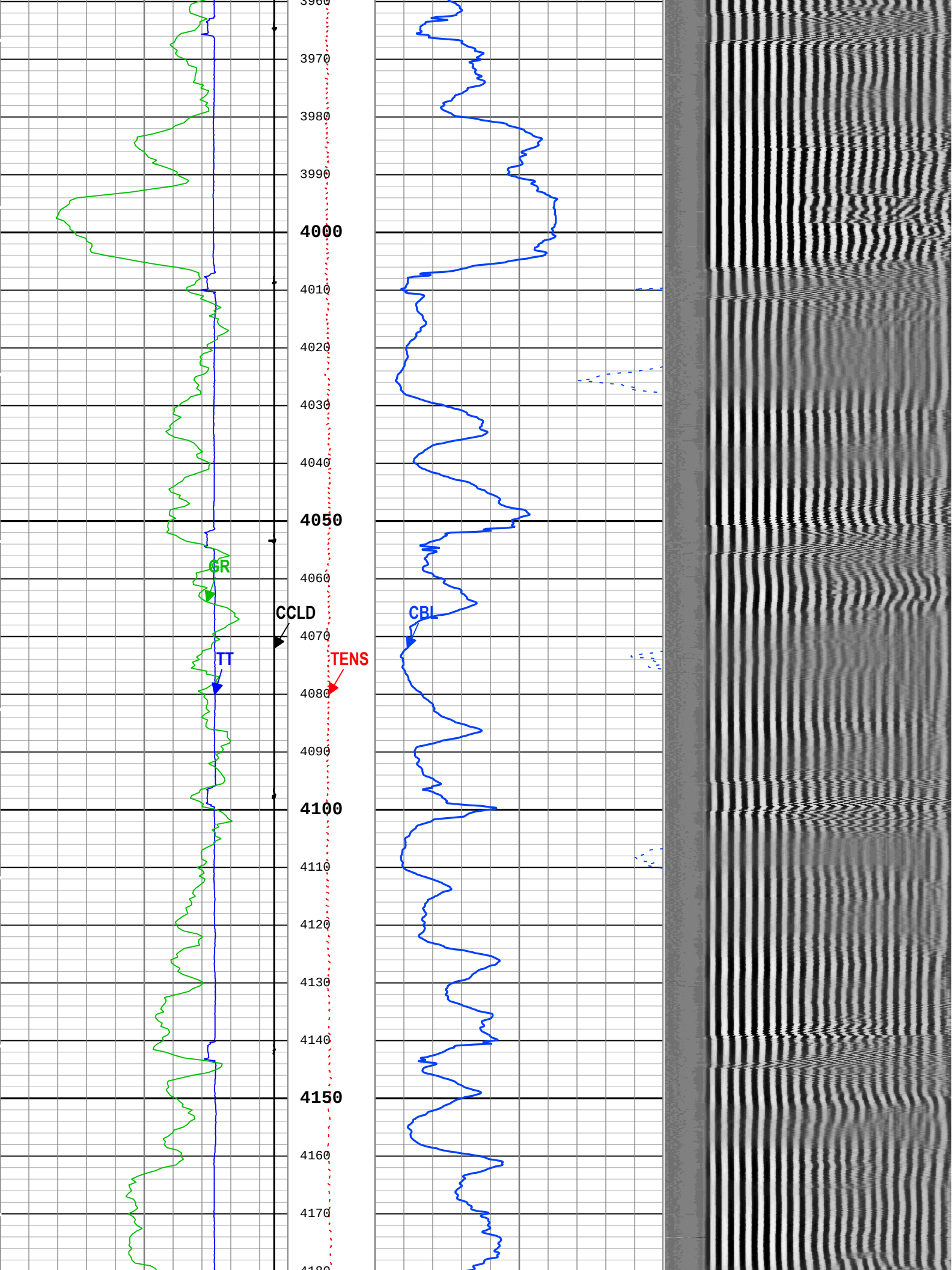
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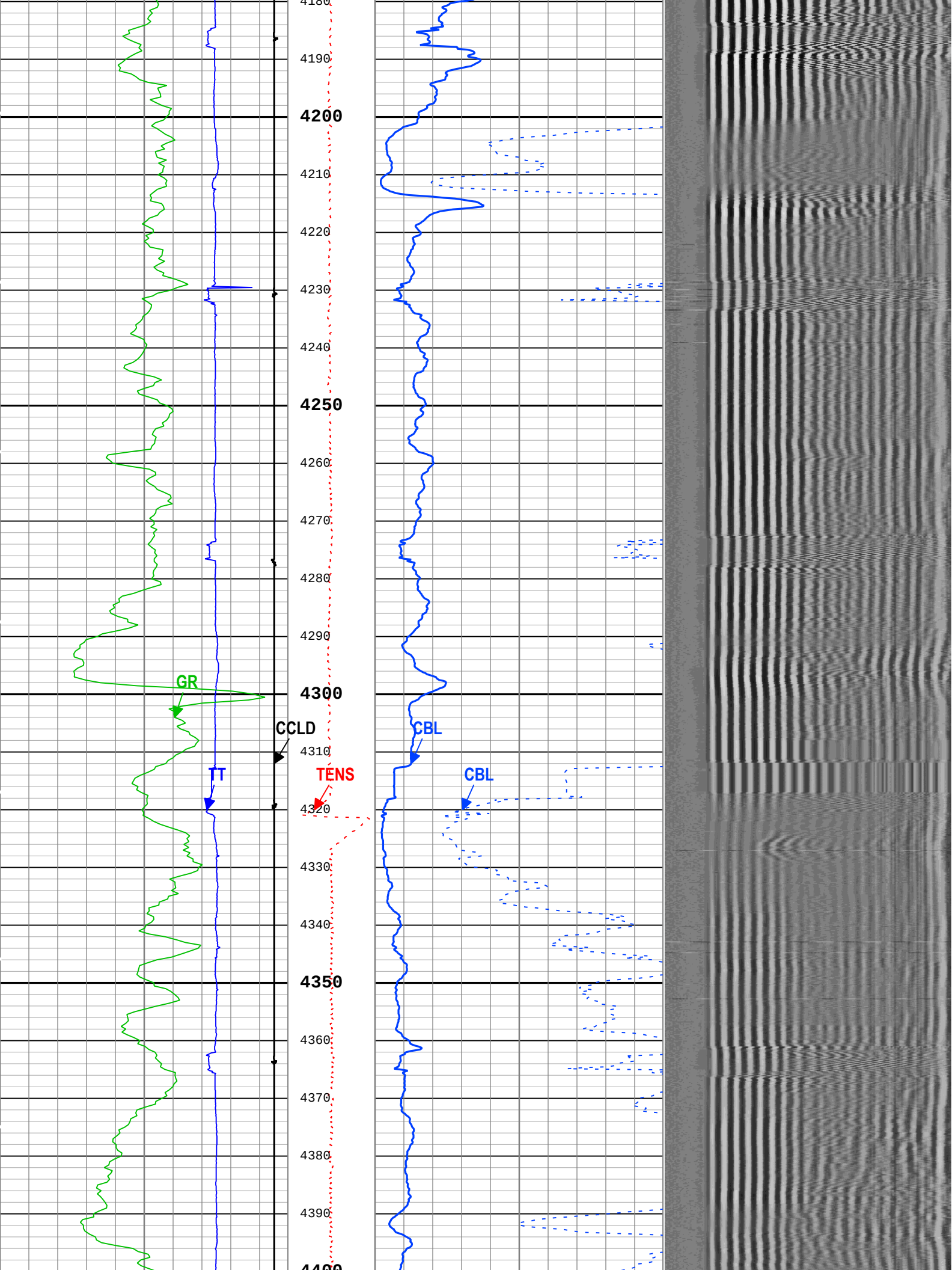
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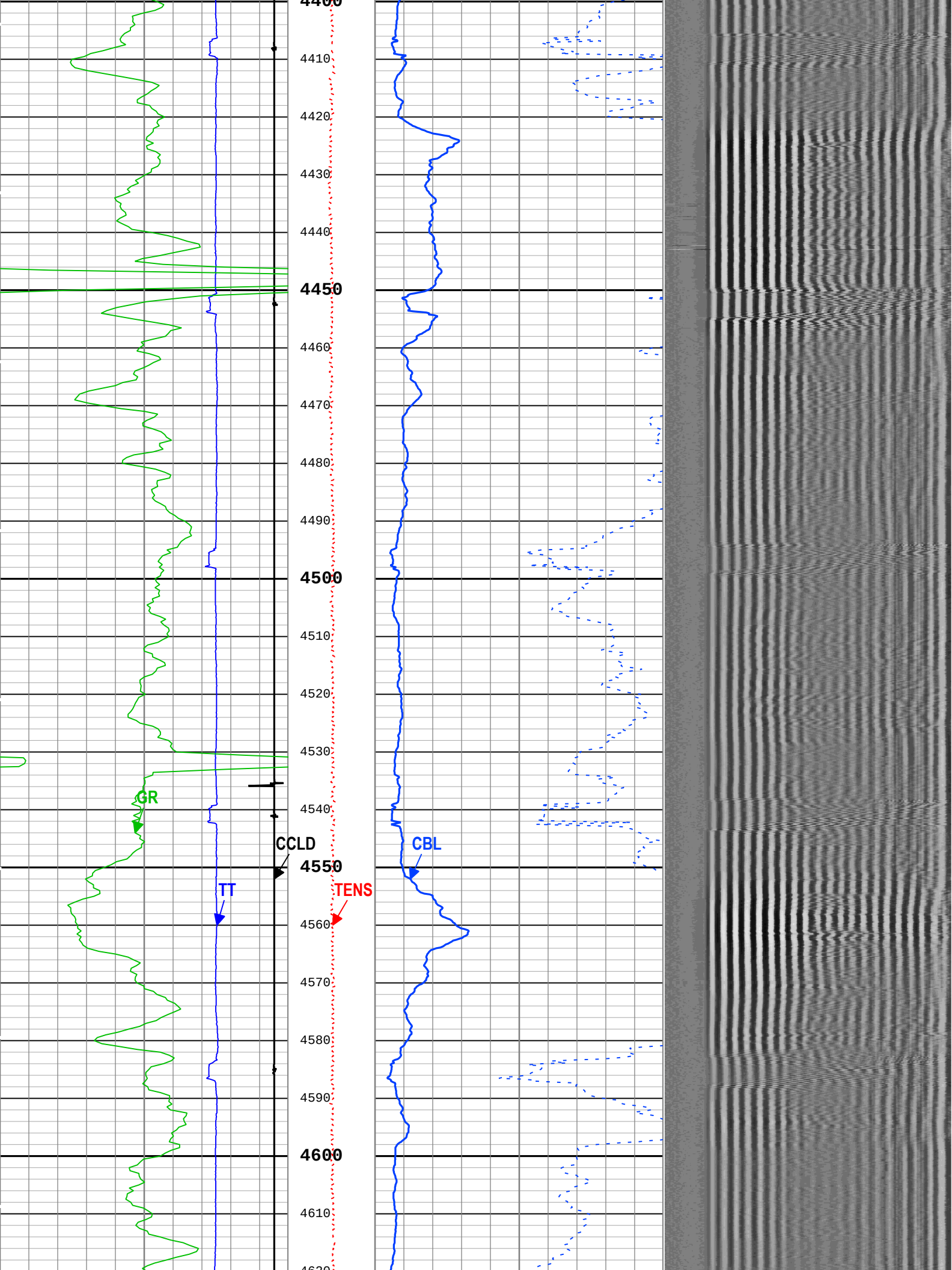
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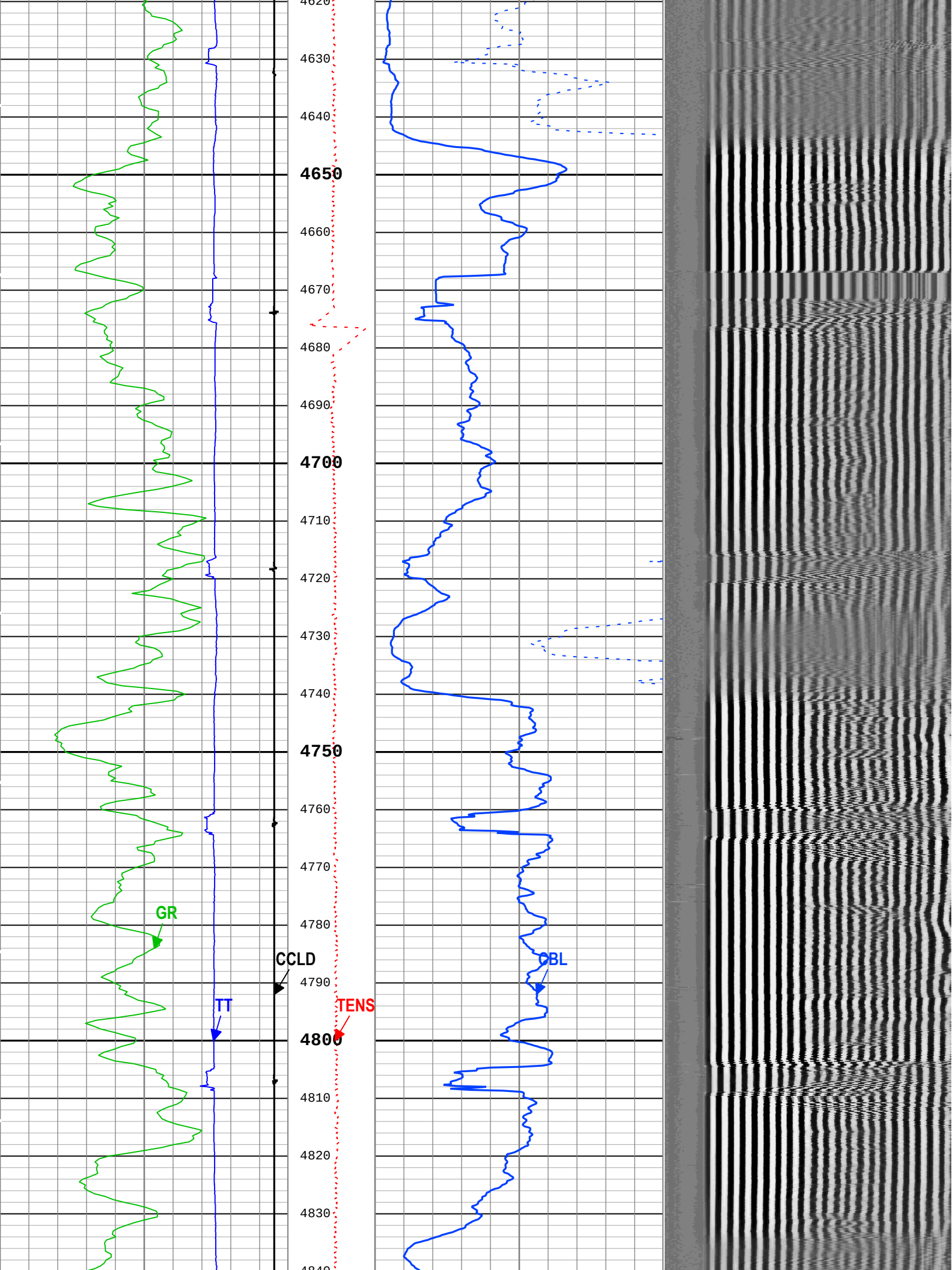
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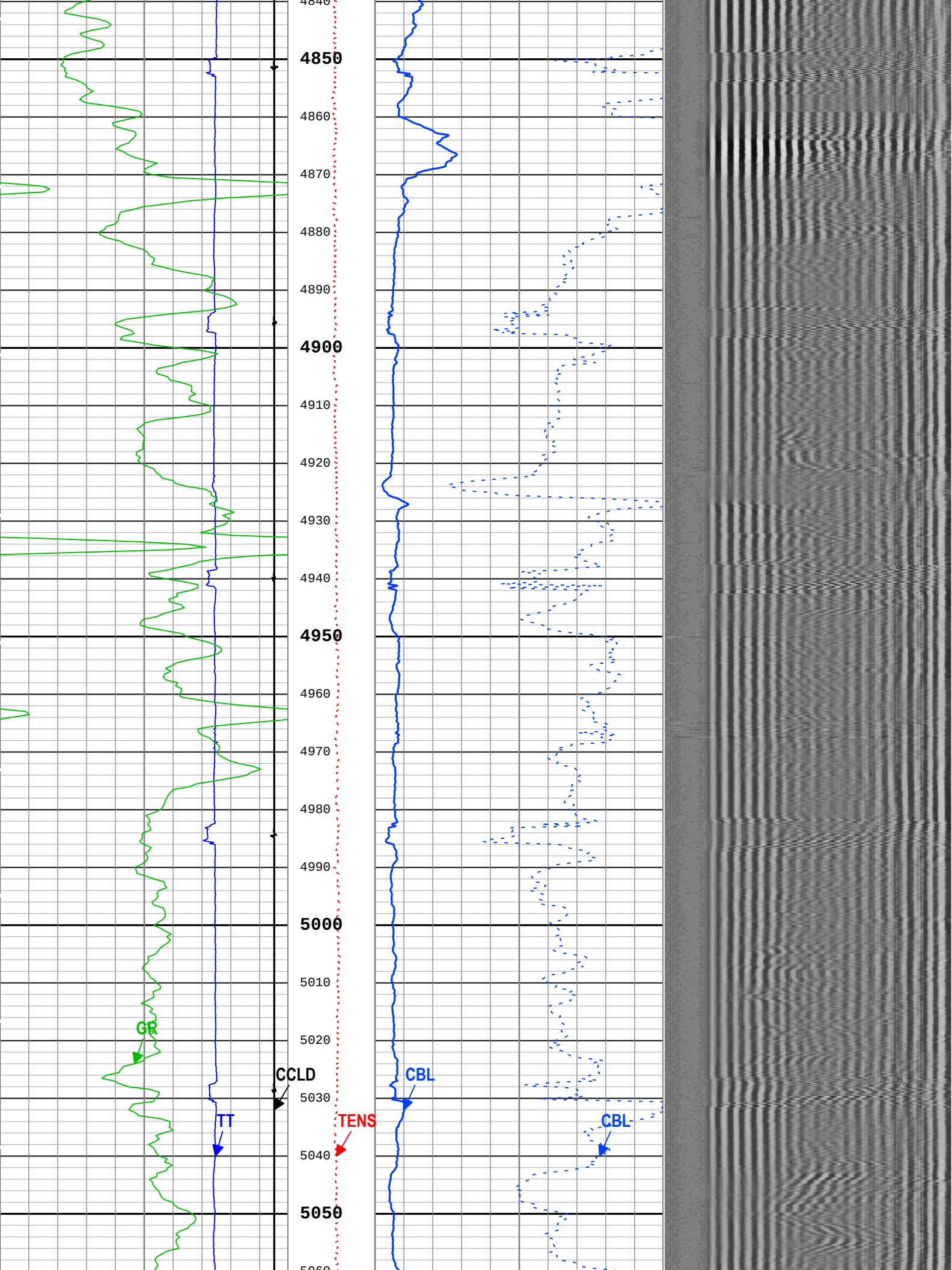
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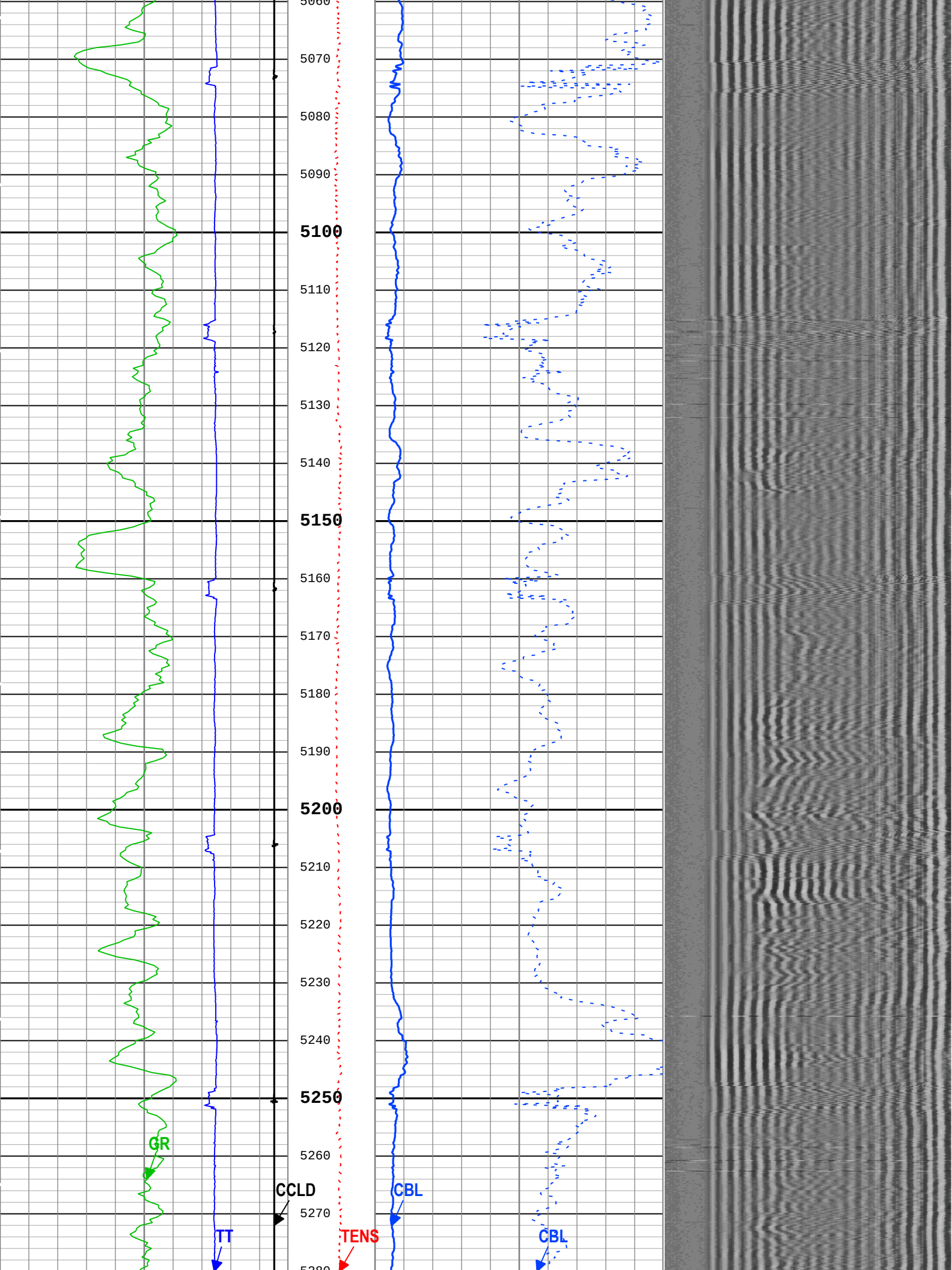
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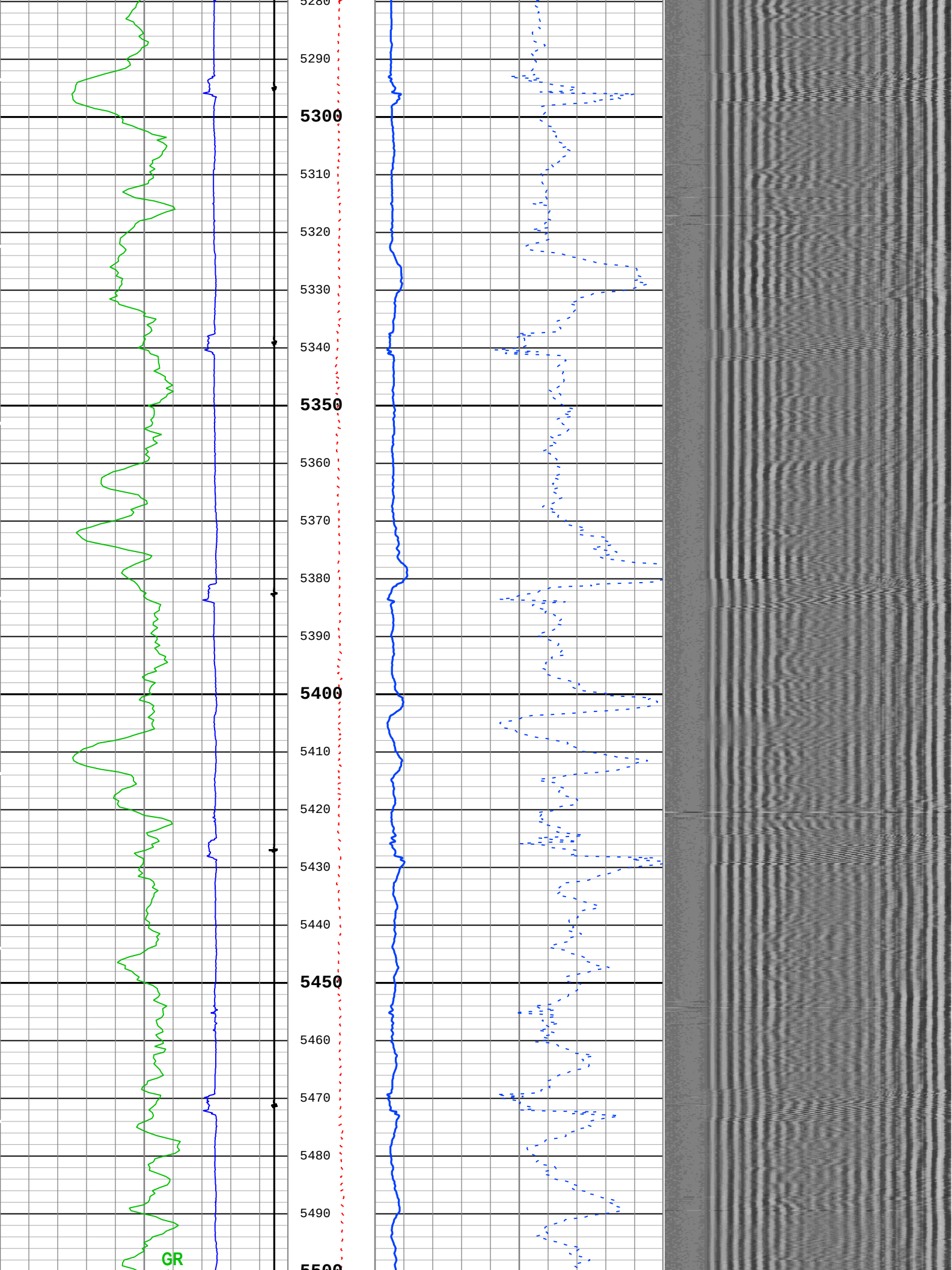
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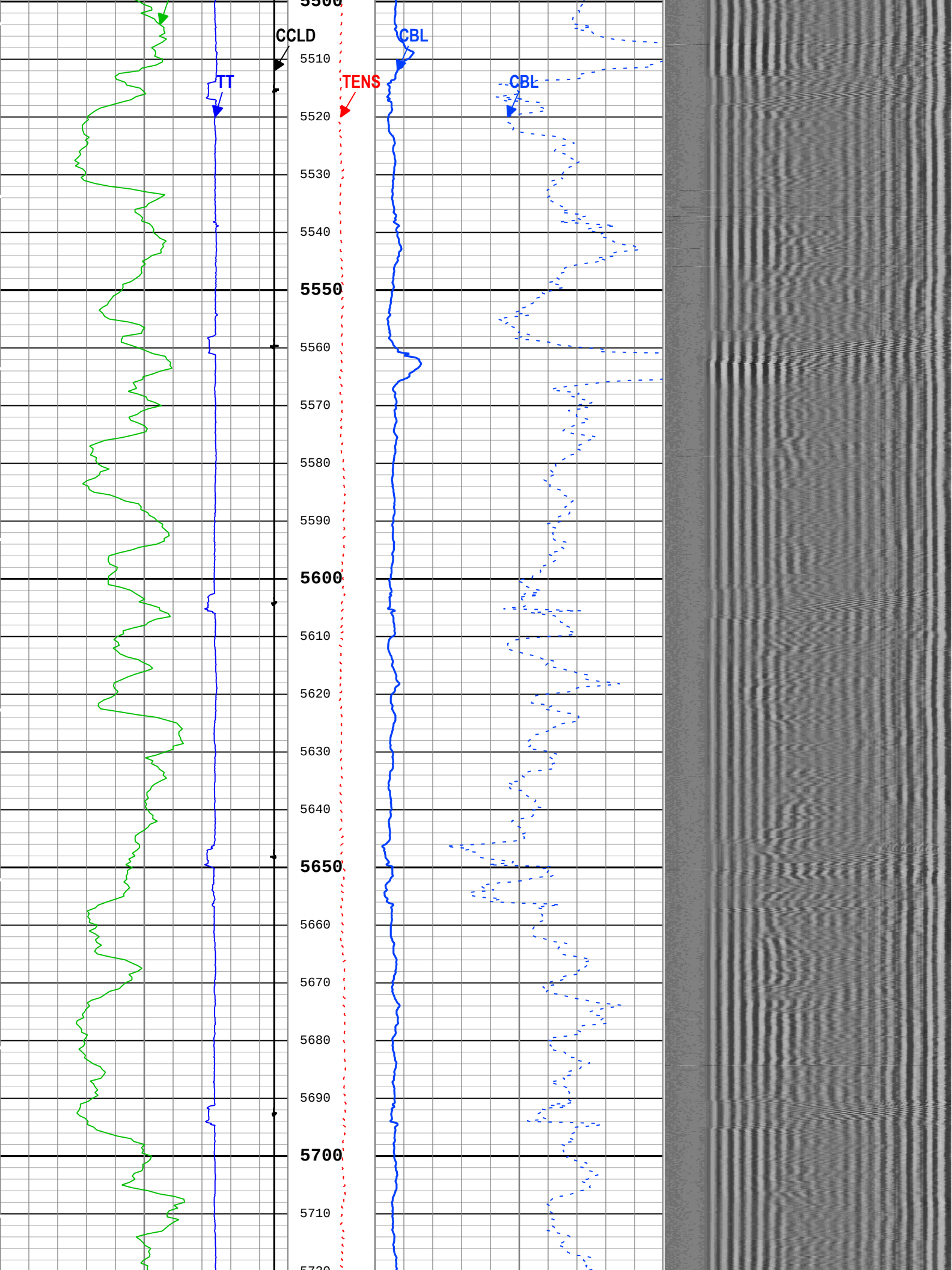
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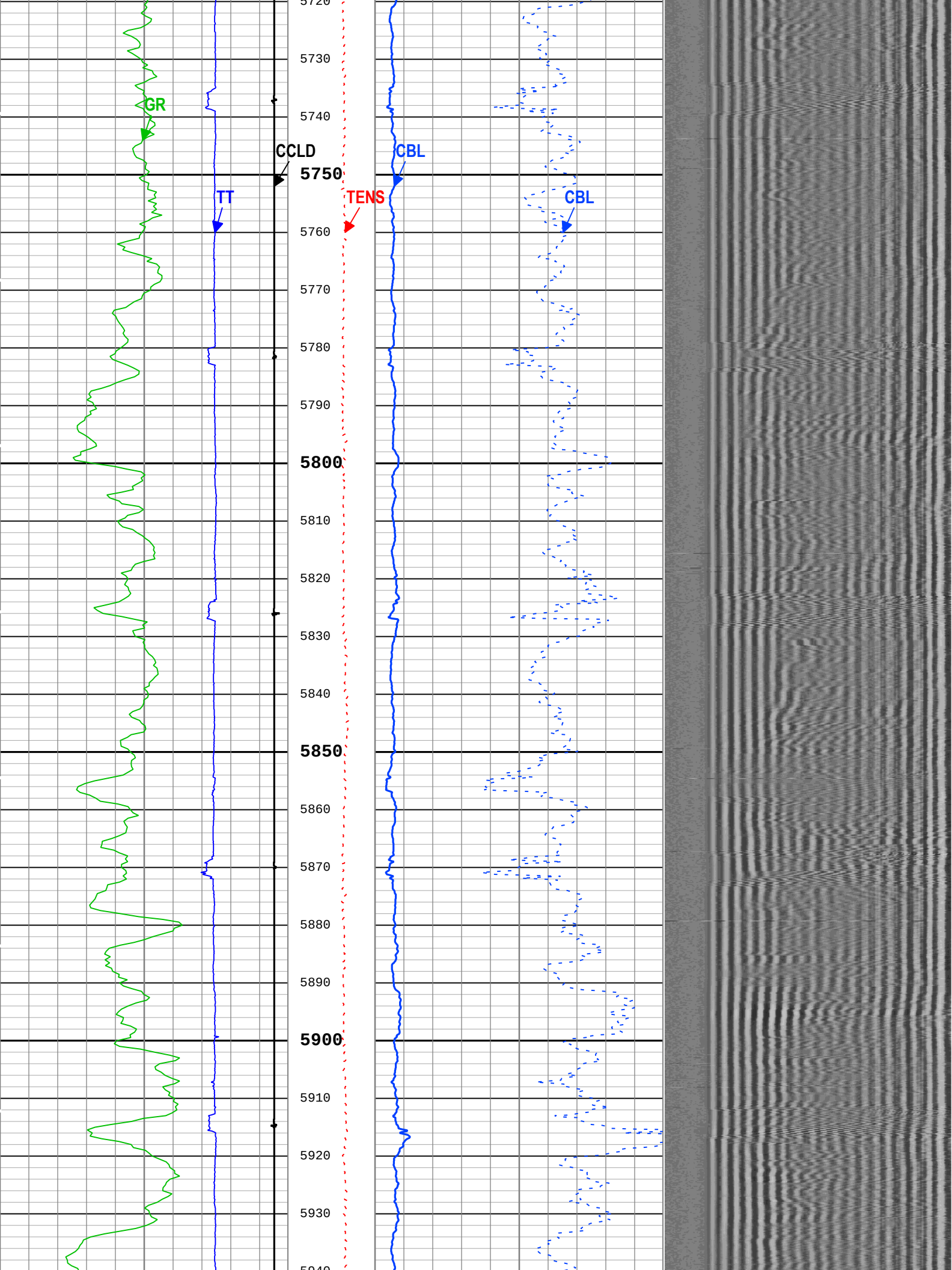
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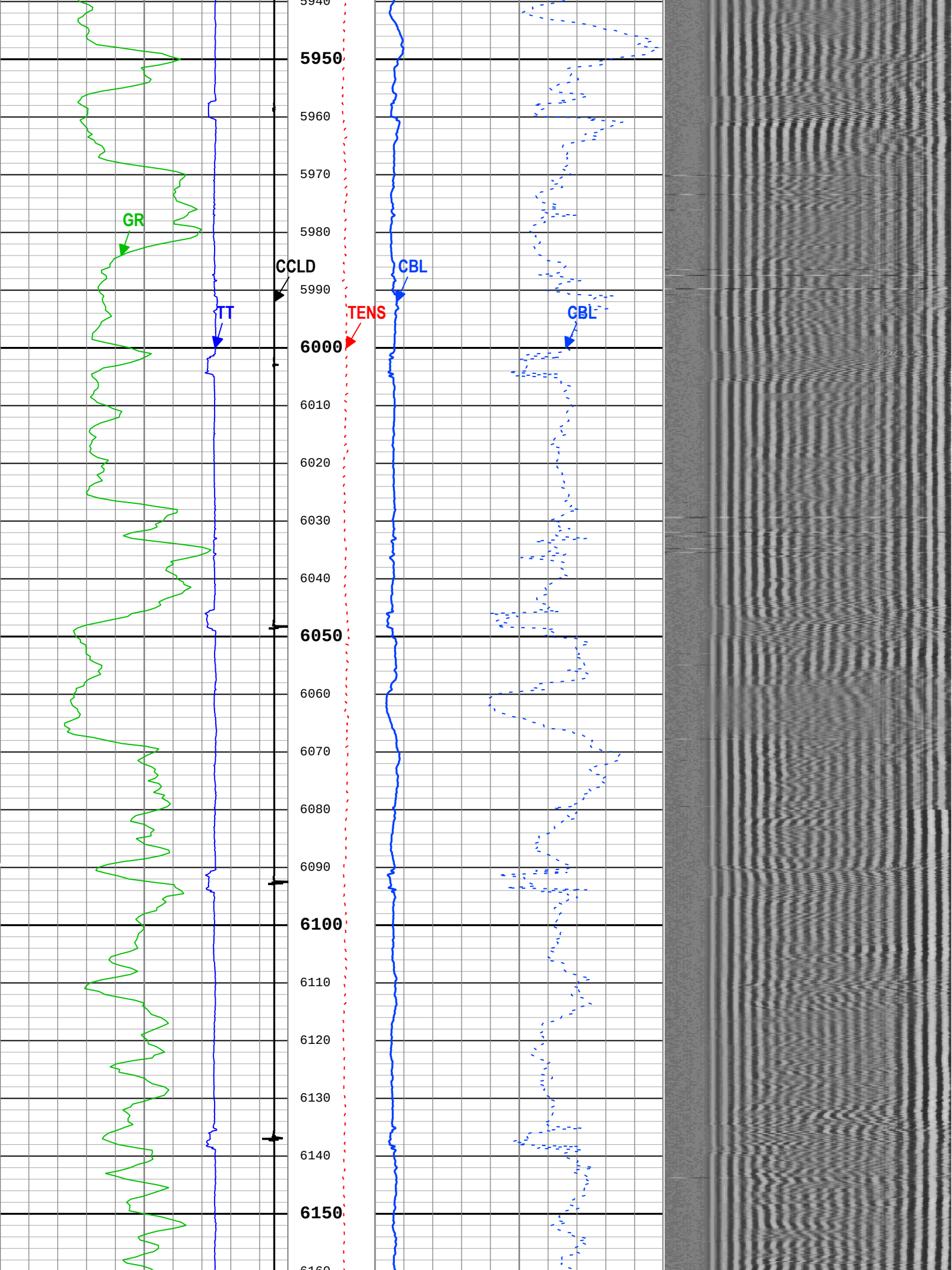
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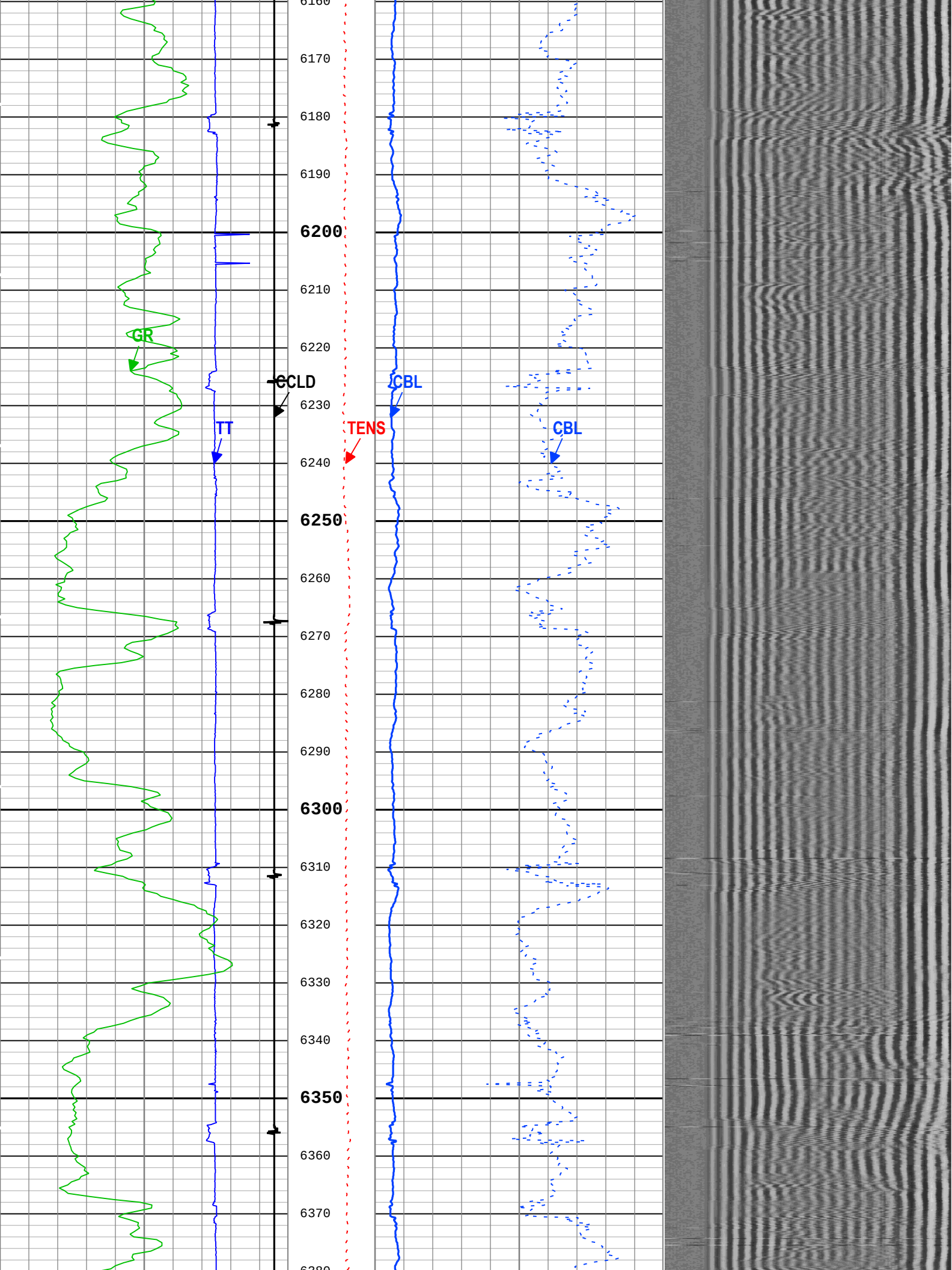
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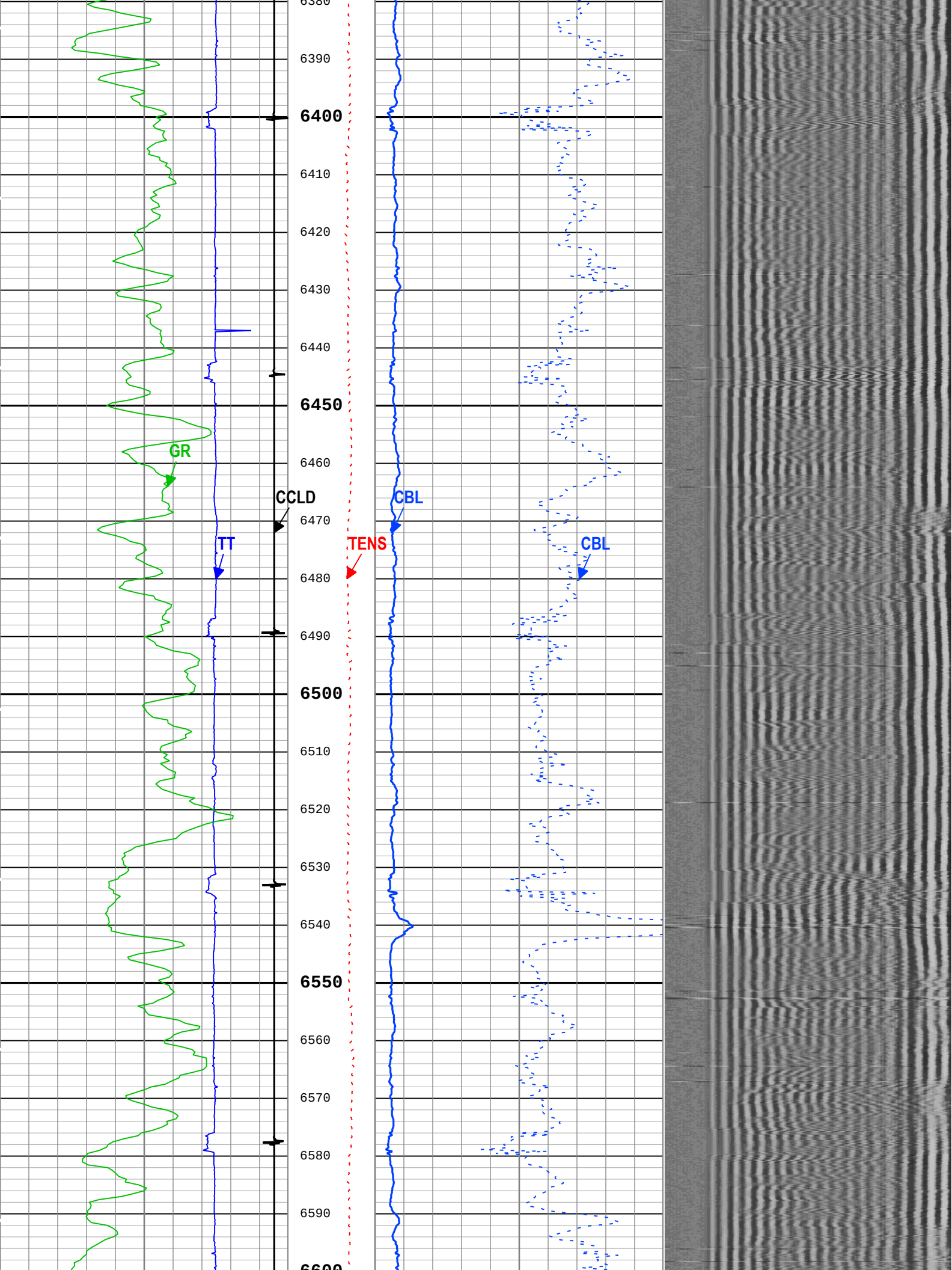
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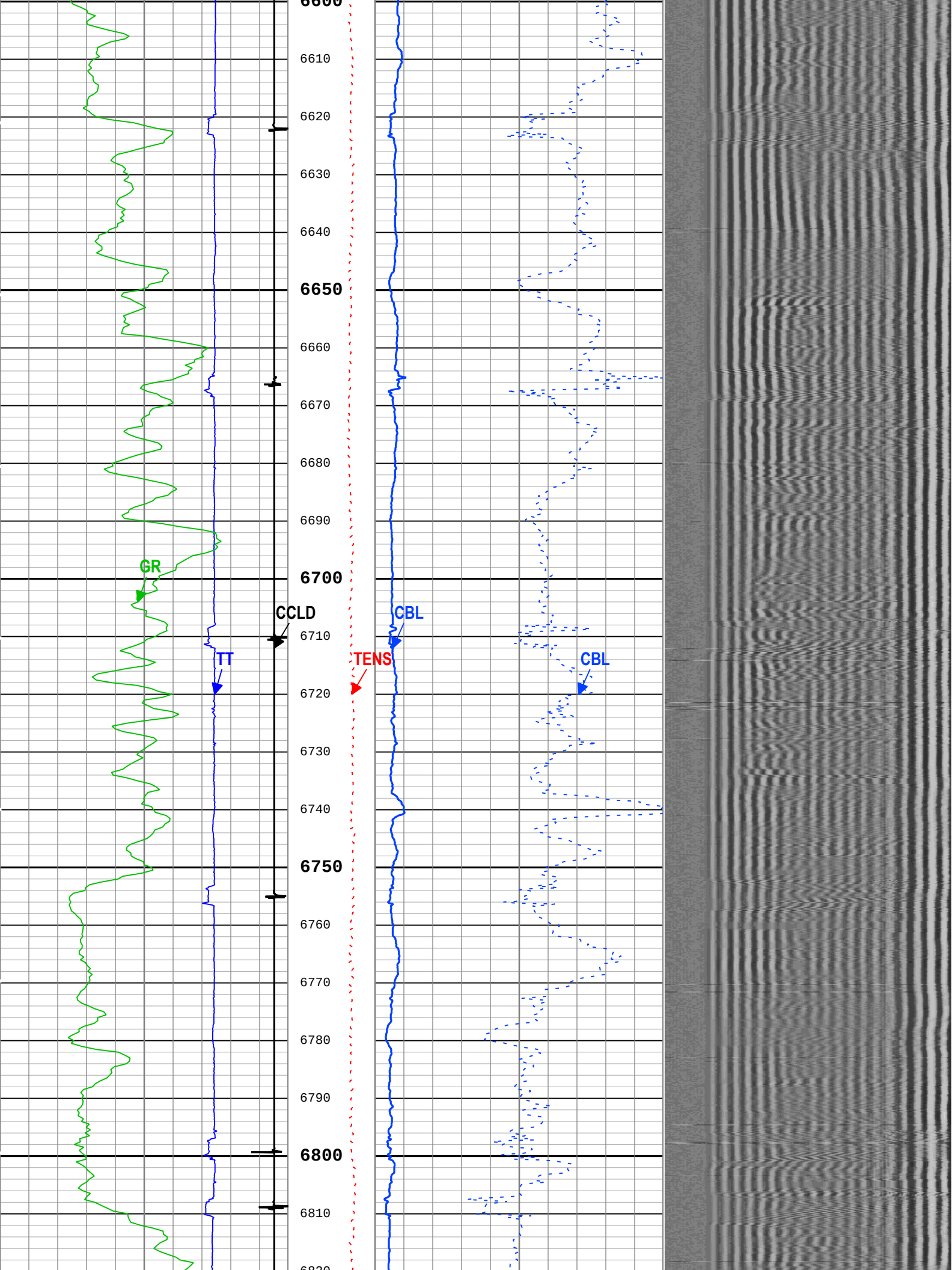
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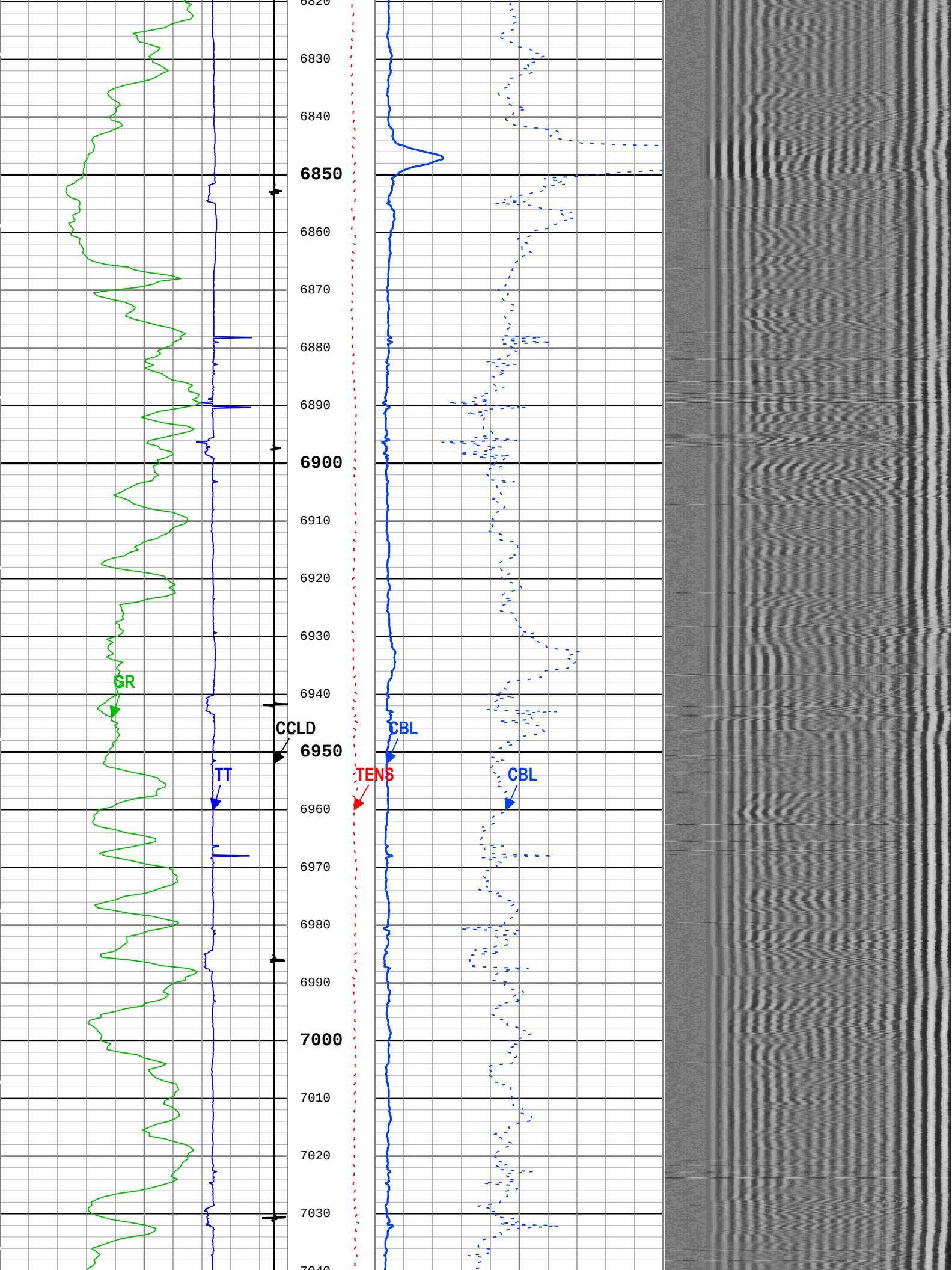
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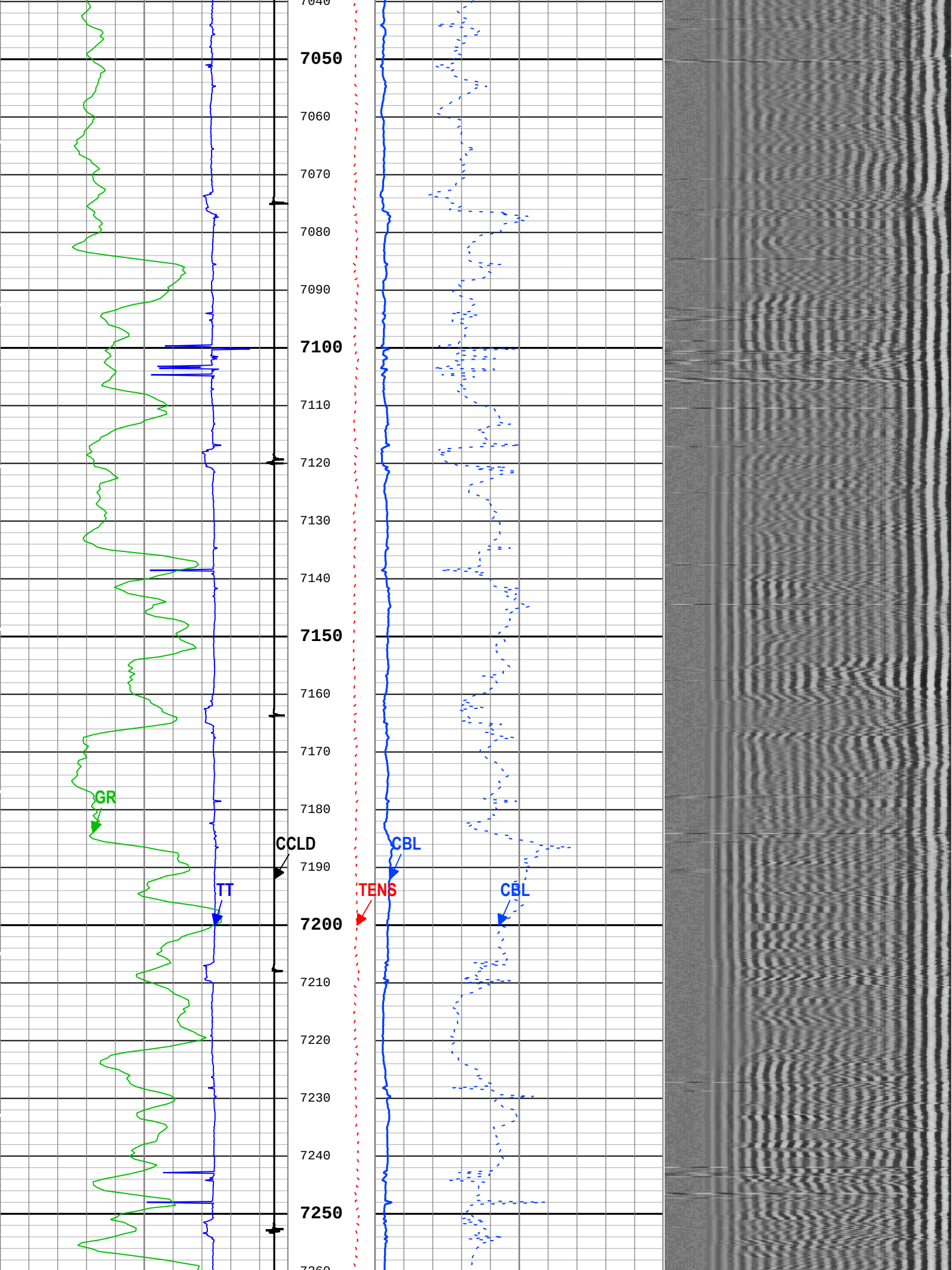
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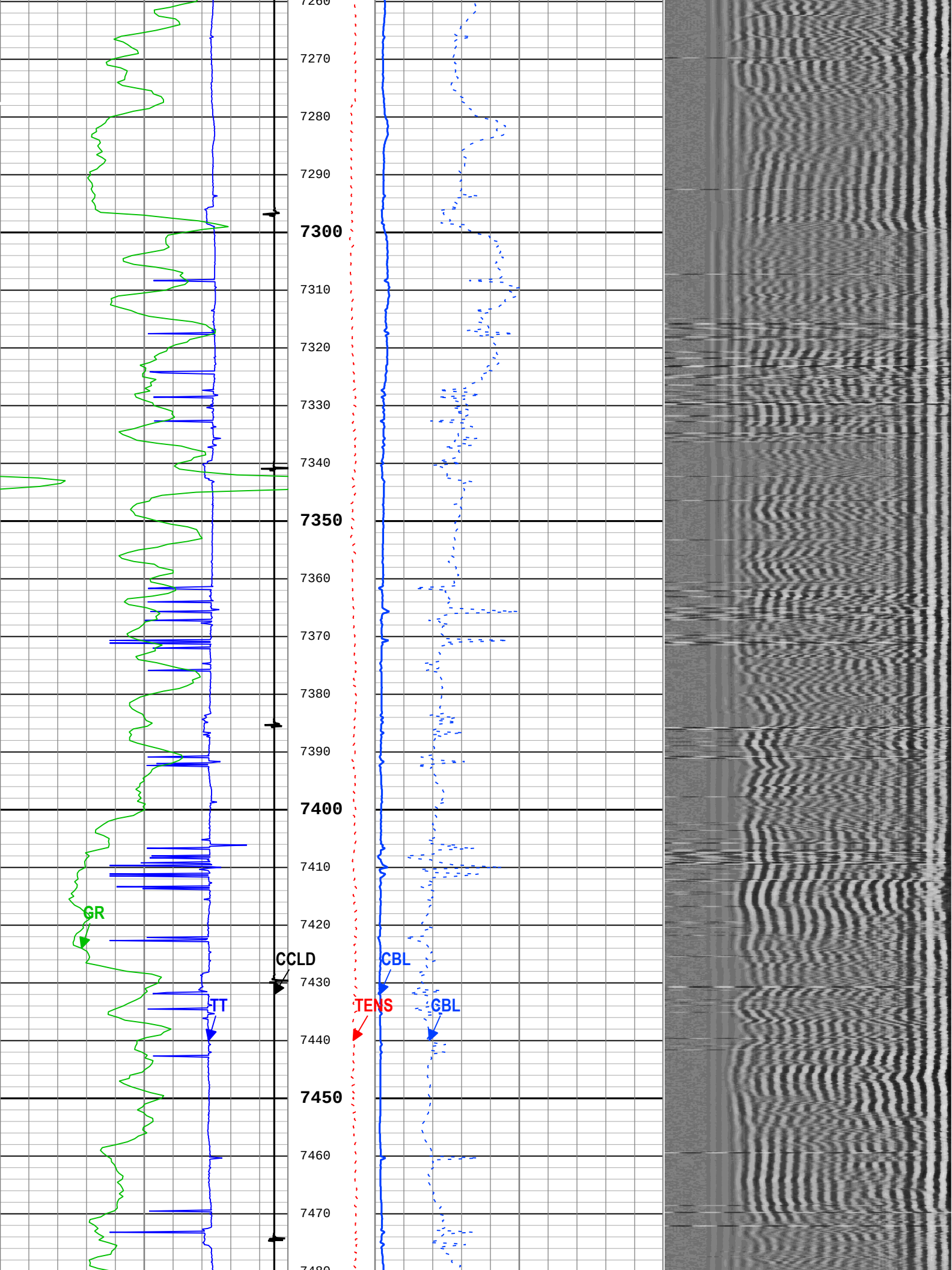
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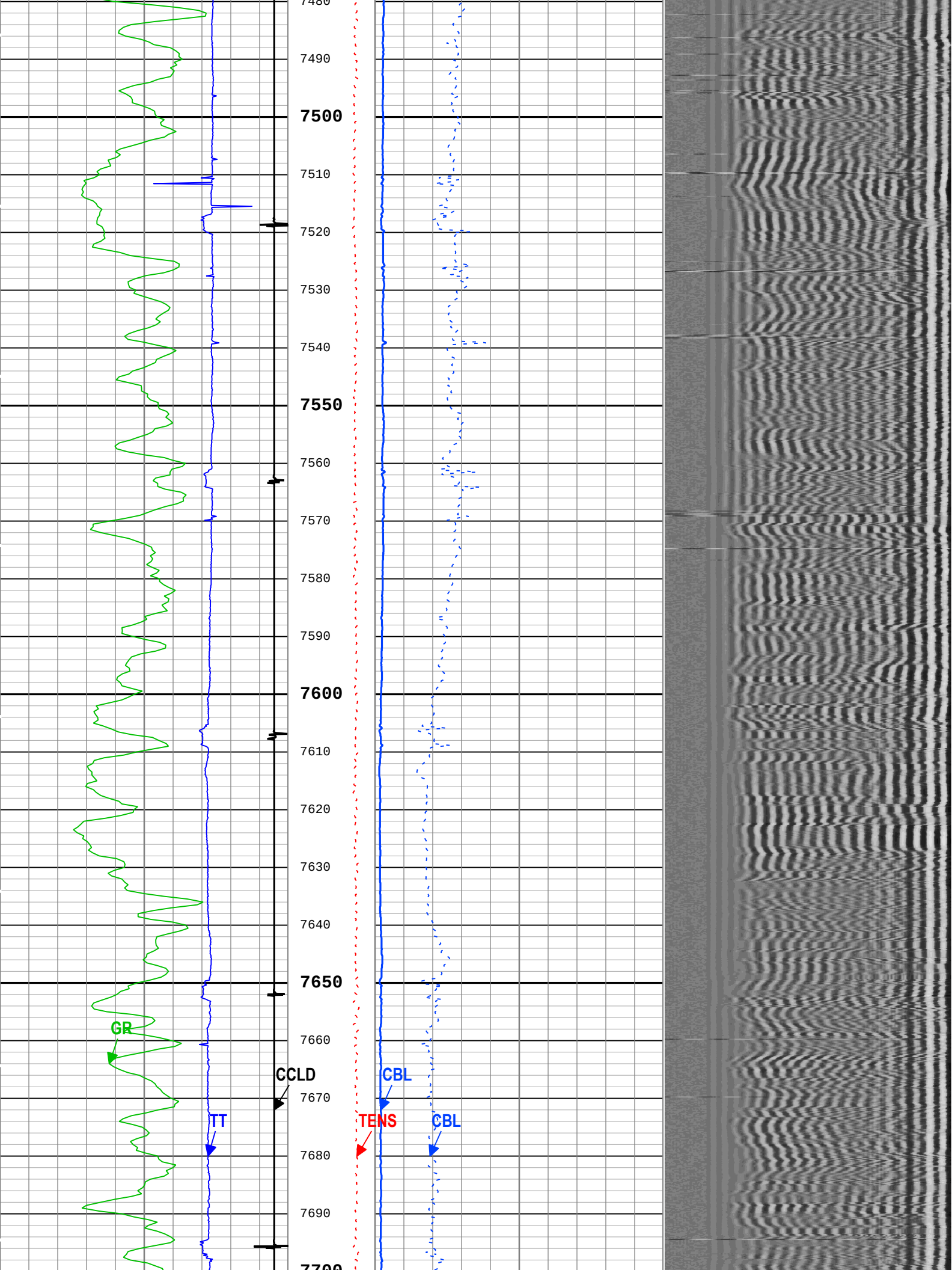
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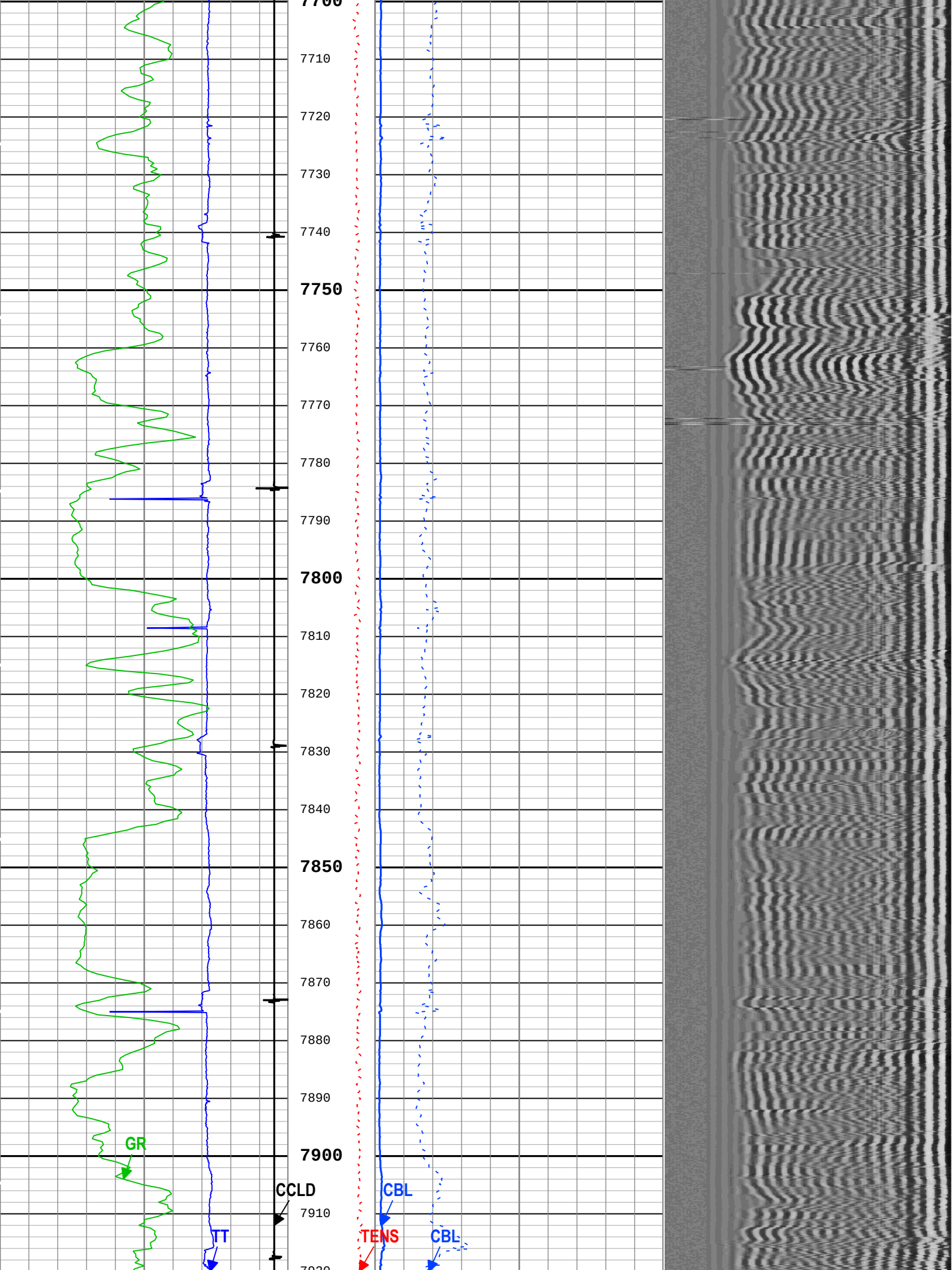
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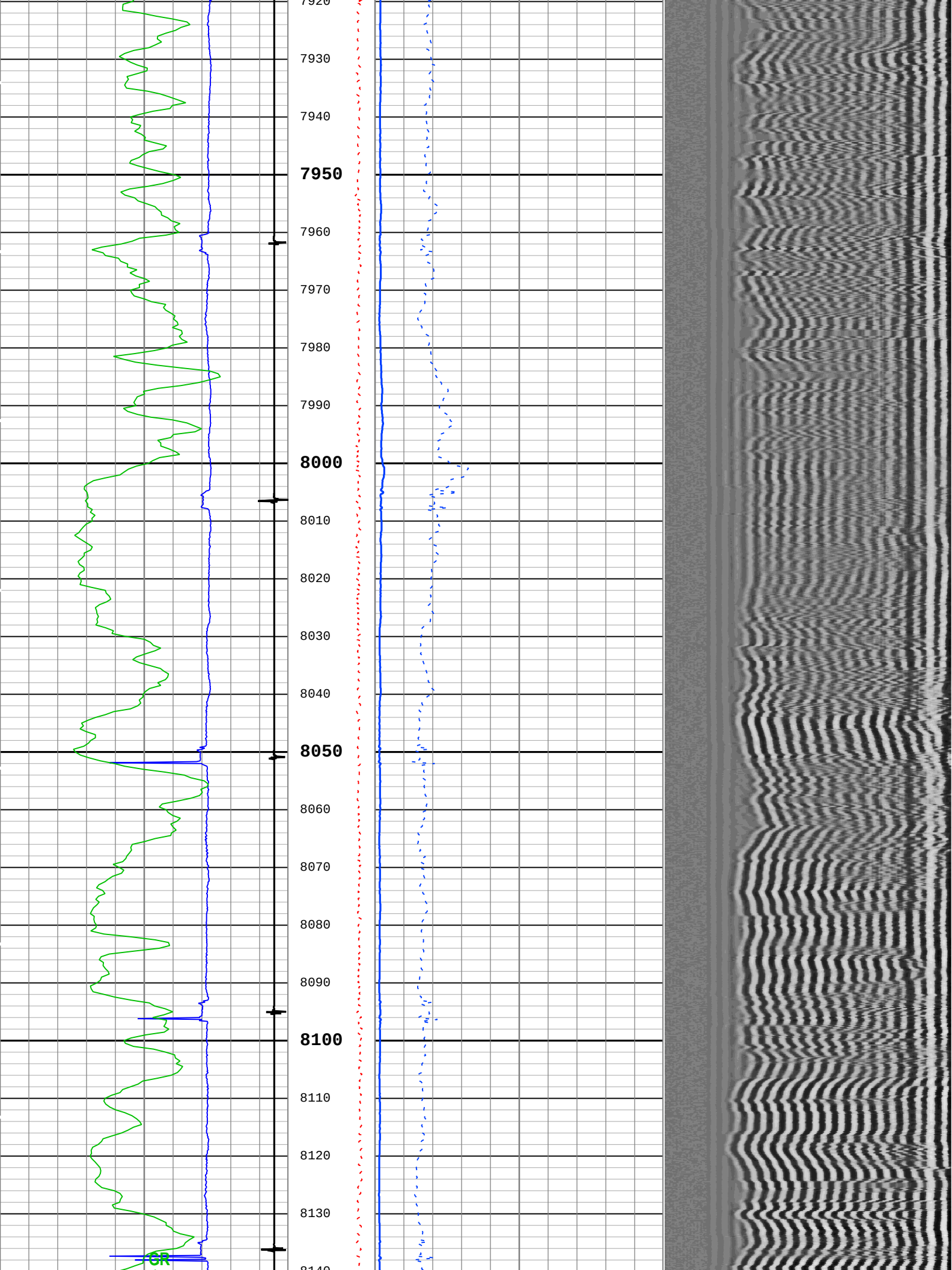
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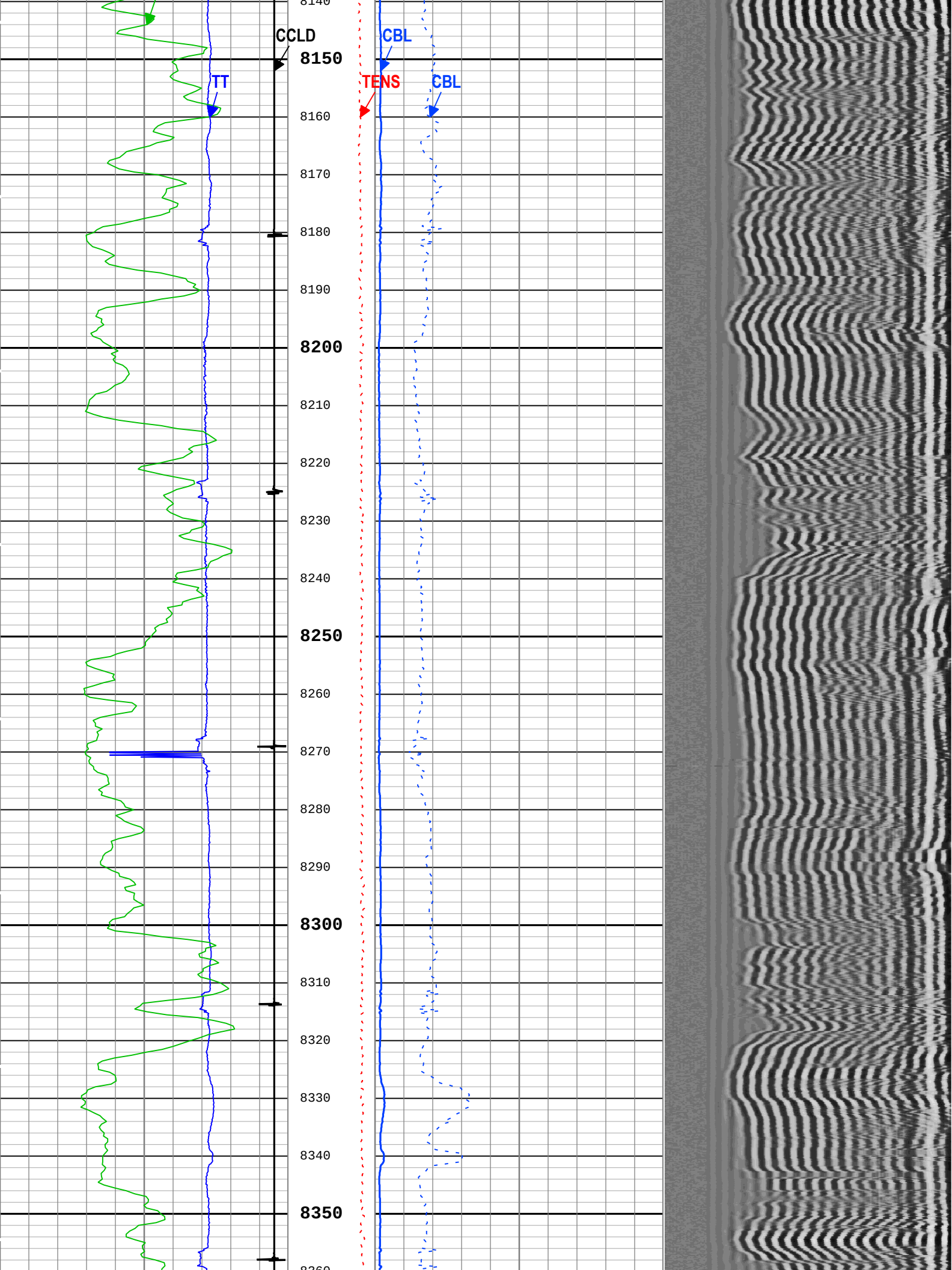
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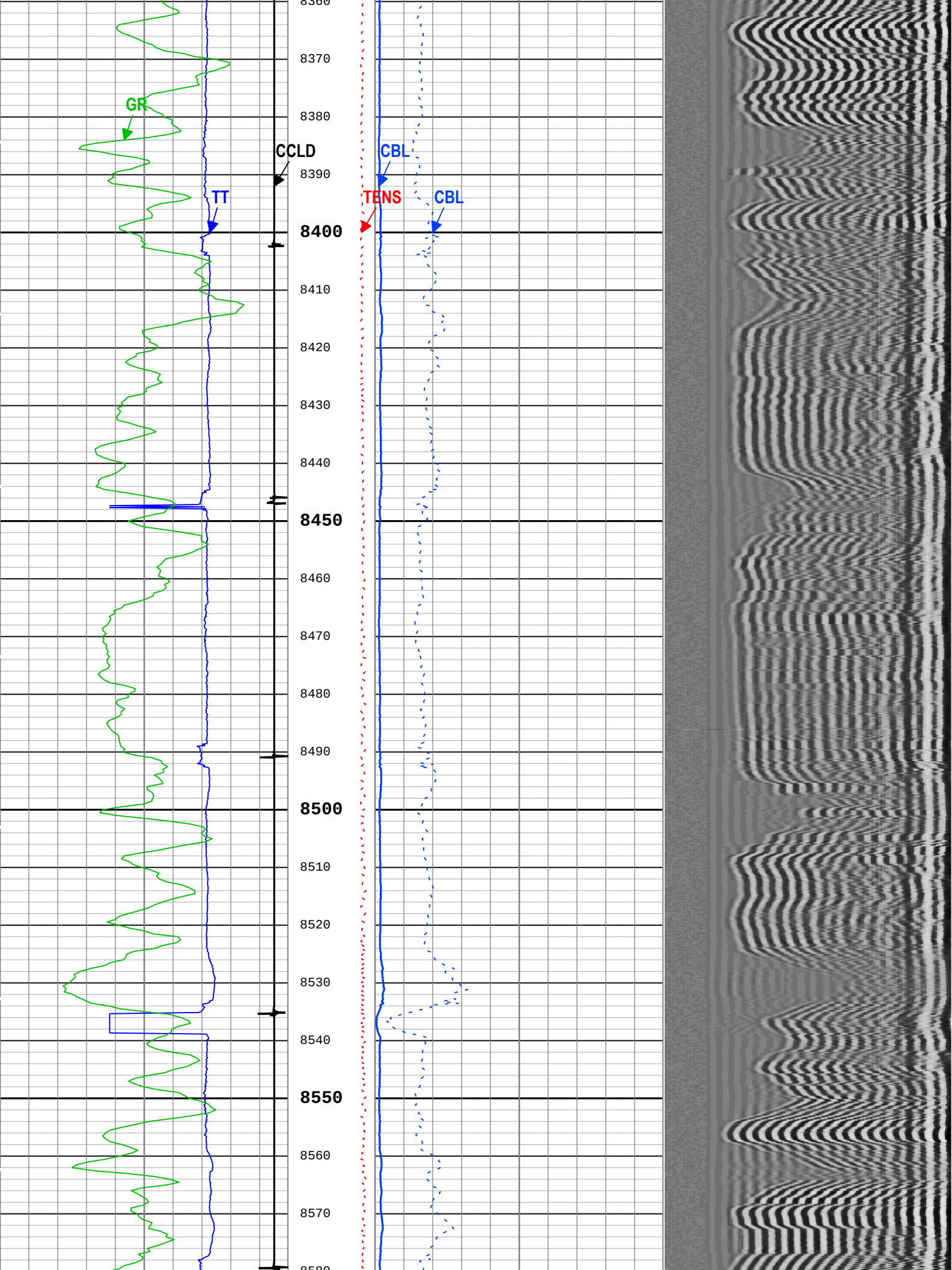
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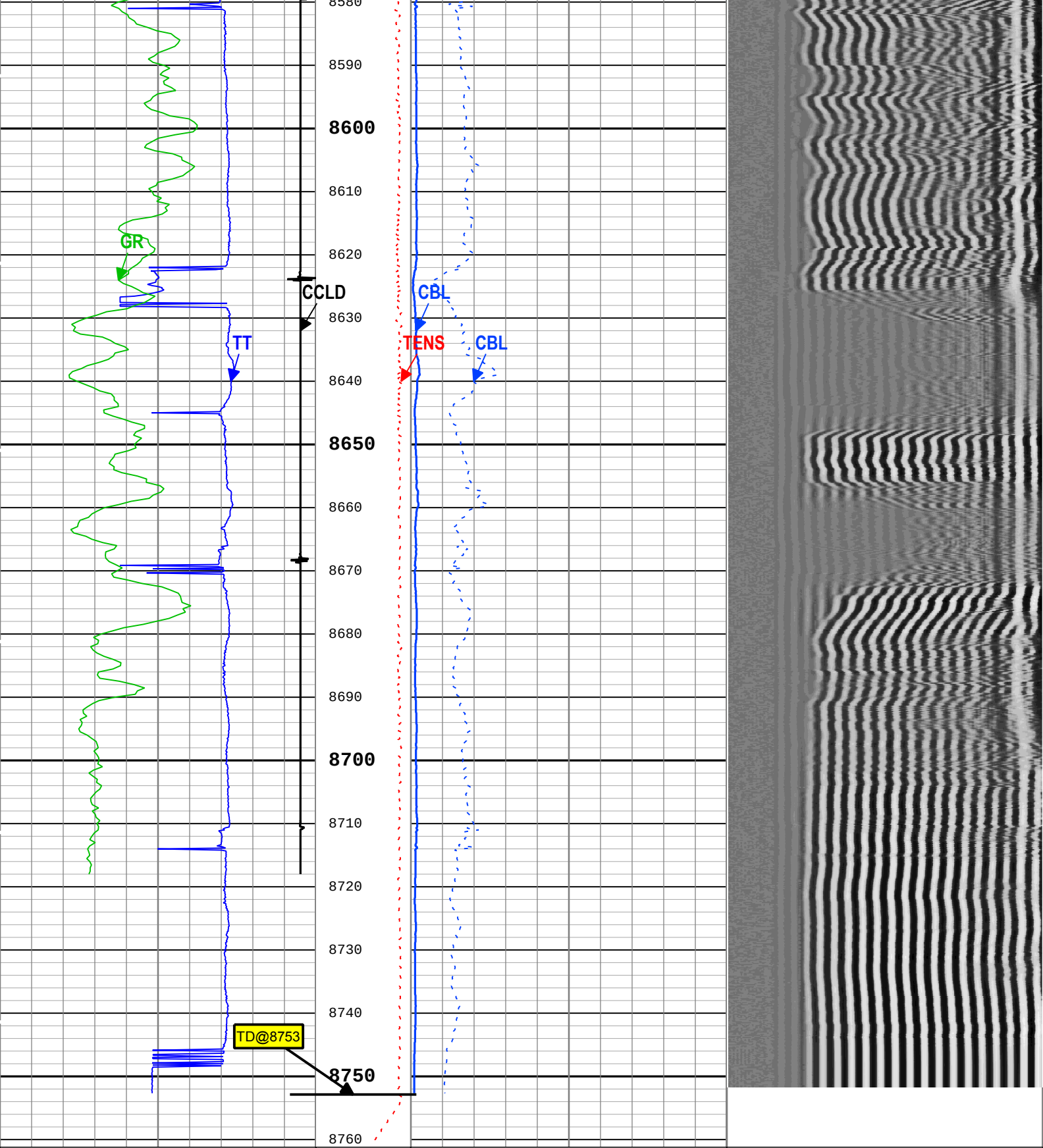


Transit Time for CBL (TT) SCMT-CB[1]
400 us 200

CCL Discriminated Amplitude (CCLD) PSTP-A[1]
-19 V 1

Gamma Ray (GR) PSTP-A[1]
0 gAPI 150

Cable Tension (TENS)
0 lbf 1500

CBL Amplitude (CBL) SCMT-CB[1]
0 mV 10

CBL Amplitude (CBL) SCMT-CB[1]
0 mV 100

Min Amplitude Max

VDL VariableDensity (VDL) SCMT-CB[1]
200 us 1200

BIEP - Bond Index Event Pips SCMT-CB[1]

TIME_1900 - Time Marked every 60.00 (s)

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-May-2018 11:31:21

Channel Processing Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	Depth Zoned	mV
DFD	Drilling Fluid Density	Borehole	8.49	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8322	ft
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	1	
SHT	Surface Hole Temperature	Borehole	68	degF

OneDepth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
CBRA	80	2300	6258
CBRA	0	6258	6282.72
GOBO_CURR	1.4	2300	6258
GOBO_CURR	0	6258	6282.72
MATT_CURR	16.92	2300	6258
MATT_CURR	0	6258	6282.72
MCI	14.81	2300	2523
MCI	1.25	2523	6258
MCI	0	6258	6282.72
MSA	0.51	2300	6258
MSA	0	6258	6282.72
MSA_CURR	0.51	2300	6258
MSA_CURR	0	6258	6282.72

All depth are actual.

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	Time Zoned	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	Depth Zoned	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DFD	Drilling Fluid Density	Borehole	8.49	lbm/gal

DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8322	ft
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	Depth Zoned	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	Depth Zoned	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	Depth Zoned	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	Depth Zoned	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	2	
SHT	Surface Hole Temperature	Borehole	68	degF

TwoDepth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
CBRA	80	5853.3	8753
CBRA	0	8753	8761.17
GOBO_CURR	1.4	5853.3	8753
GOBO_CURR	0	8753	8761.17
MATT_CURR	16.92	5853.3	8753
MATT_CURR	0	8753	8761.17
MCI	1.25	5853.3	8753
MCI	0	8753	8761.17
MSA	0.51	5853.3	8753
MSA	0	8753	8761.17
MSA_CURR	0.51	5853.3	8753
MSA_CURR	0	8753	8761.17

All depth are actual.

TwoTime Zoned Parameters

Pass Log[8]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
CBLG	40	21-May-2018 06:51:24	21-May-2018 07:38:10	7277.63	6089.51

Pass Log[12]:Up

CBLG	43	21-May-2018 09:43:18	21-May-2018 10:45:24	8761.17	7165.13

All depth are at tool zero.

Tool Control Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	0 dB	

Two: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h

PCCG	PSP Downhole CCL Gain	PSTP-A	12 dB	

Two

CBL-VDL Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2018	8.0.95333.3100
Application Patch	Wireline_NPD-PNX-2018CMZ_8.0.100887

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two	Log[11]:Up	Up	8236.25 ft	8765.36 ft	21-May-2018 09:14:41	21-May-2018 09:36:06	ON	9.90 ft	No

All depths are referenced to toolstring zero

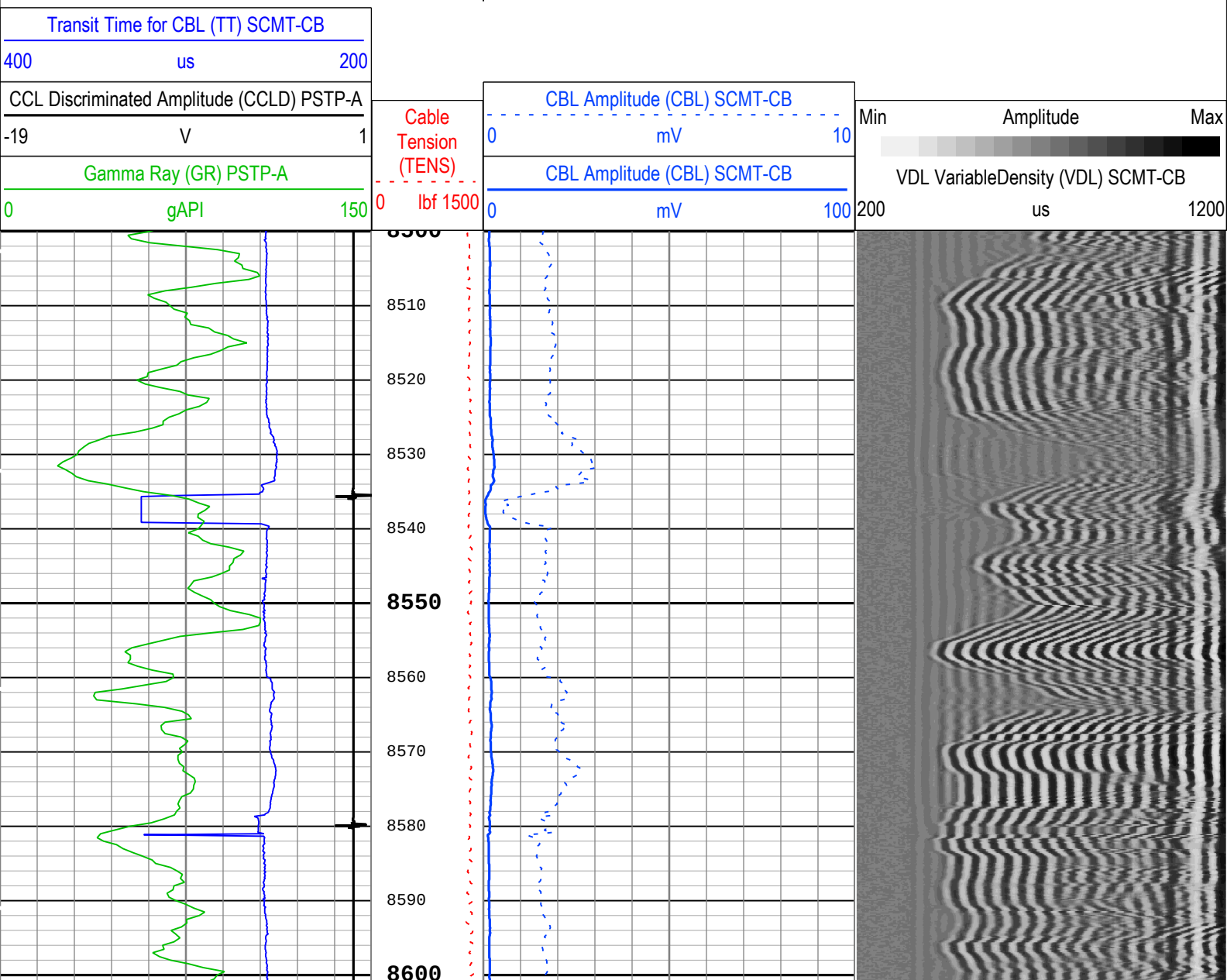
Log

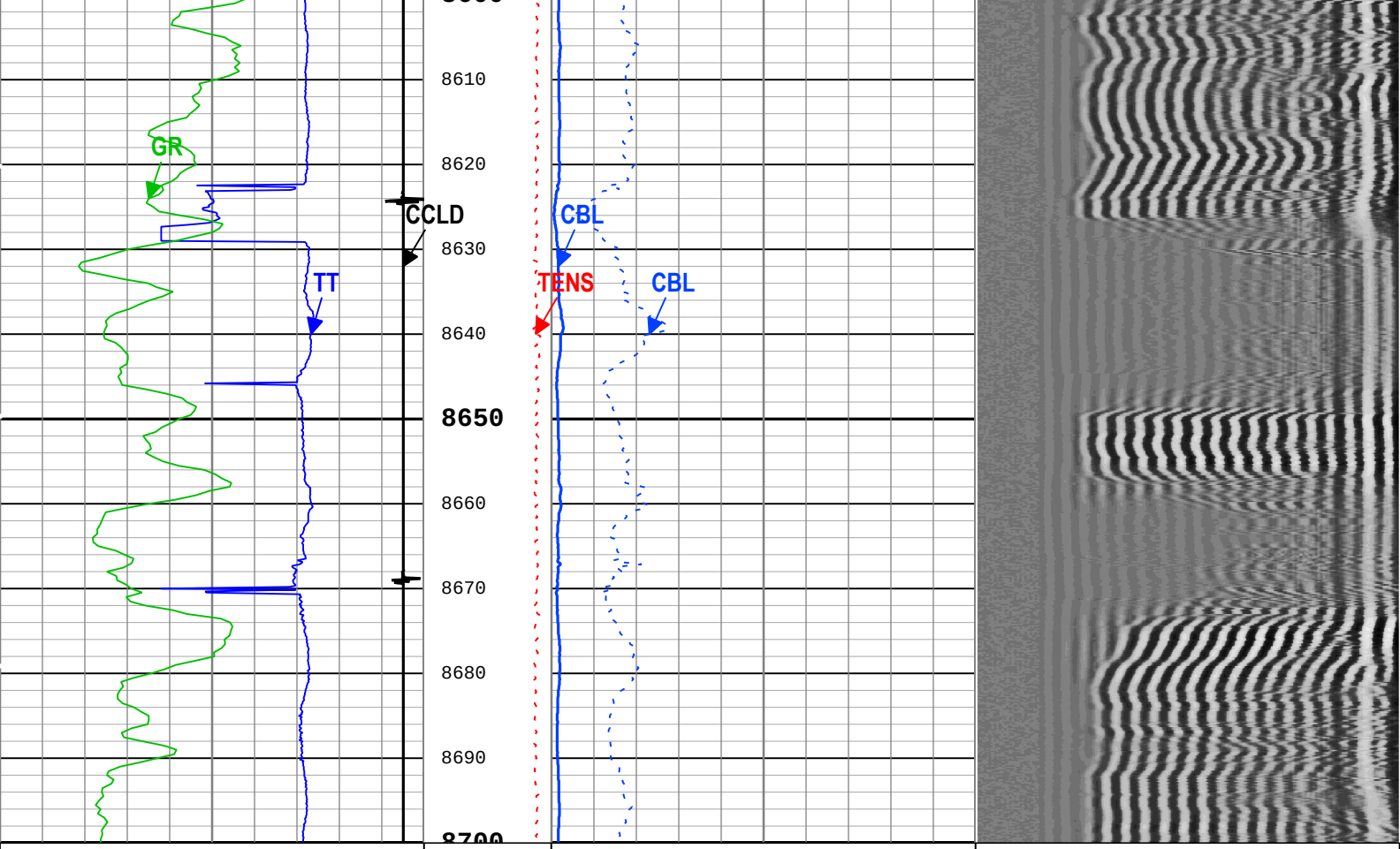
Company:Caerus Operating LLC Well:Puckett 12D-26-697 Two: Log[11]:Up:S016

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-May-2018 11:31:32

TIME_1900 - Time Marked every 60.00 (s)

BIEP - Bond Index Event Pips SCMT-CB





Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-May-2018 11:31:32

Channel Processing Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	Time Zoned	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DFD	Drilling Fluid Density	Borehole	8.49	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8322	ft
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	1.4	mV
GTSE	Generalized Temperature Selection, from Measured or	Borehole	GTEM_LINEST(RT)	

	Computed Temperature			
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	16.92	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	1.25	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	2	
SHT	Surface Hole Temperature	Borehole	68	degF

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
CBLG	40	21-May-2018 09:14:41	21-May-2018 09:26:37	8765.36	8513.53
CBLG	43	21-May-2018 09:26:37	21-May-2018 09:36:06	8513.53	8236.25

All depth are at tool zero.

Tool Control Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	12 dB	

Two

CBL-VDL Repeat Pass 2

Software Version

Acquisition System	Version
Maxwell 2018	8.0.95333.3100
Application Patch	Wireline_NPD-PNX-2018CMZ_8.0.100887

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two	Log[13]:Up	Up	6995.92 ft	7490.10 ft	21-May-2018 10:51:16	21-May-2018 11:08:52	ON	9.90 ft	No

All depths are referenced to toolstring zero

Log

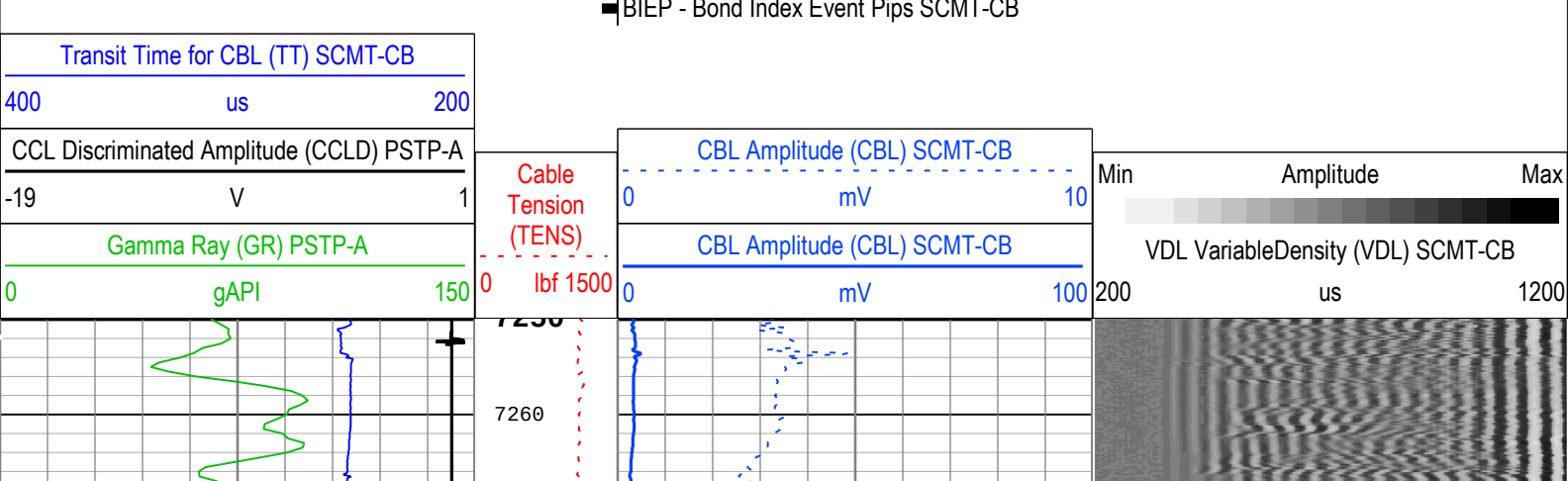
Company:Caerus Operating LLC Well:Puckett 12D-26-697

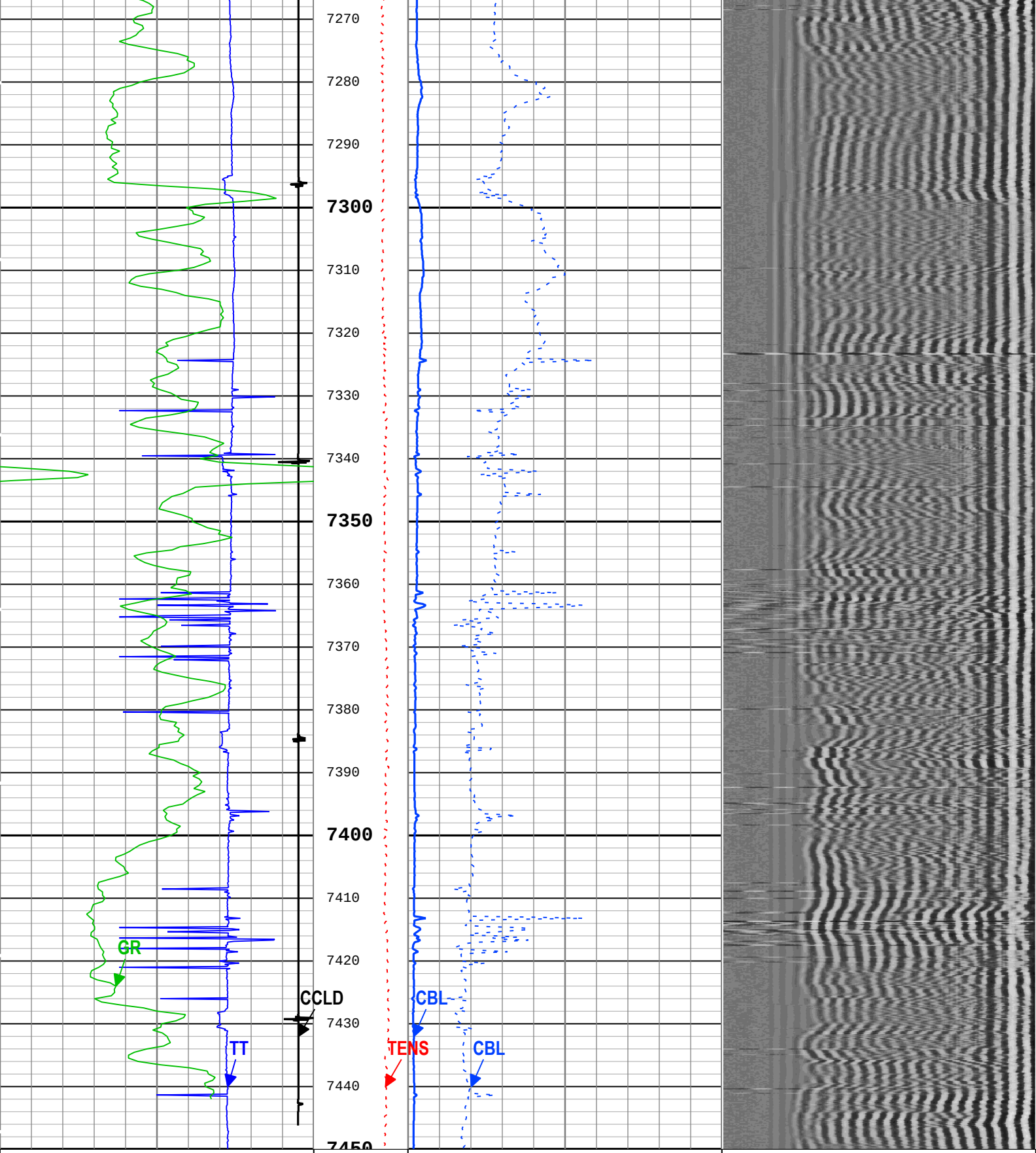
Two: Log[13]:Up:S016

Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-May-2018 11:31:36

TIME_1900 - Time Marked every 60.00 (s)

BIEP - Bond Index Event Pips SCMT-CB





Transit Time for CBL (TT) SCMT-CB
400 us 200

CCL Discriminated Amplitude (CCLD) PSTP-A
-19 V 1

Gamma Ray (GR) PSTP-A
0 gAPI 150

Cable Tension (TENS)
0 lbf 1500

CBL Amplitude (CBL) SCMT-CB
0 mV 10

CBL Amplitude (CBL) SCMT-CB
0 mV 100

Min Amplitude Max

VDL VariableDensity (VDL) SCMT-CB
200 us 1200

BIEP - Bond Index Event Pips SCMT-CB

TIME 1000 - Time Marked every 60.00 (s)

Channel Processing Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	43	us
CBRA	CBL LQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DFD	Drilling Fluid Density	Borehole	8.49	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8322	ft
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	1.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	16.92	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	1.25	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	2	
SHT	Surface Hole Temperature	Borehole	68	degF

Tool Control Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	12 dB	

Two

CBL-VDL Free pipe

Software Version

Acquisition System	Version
Maxwell 2018	8.0.95333.3100
Application Patch	Wireline_NPD-PNX-2018CMZ_8.0.100887

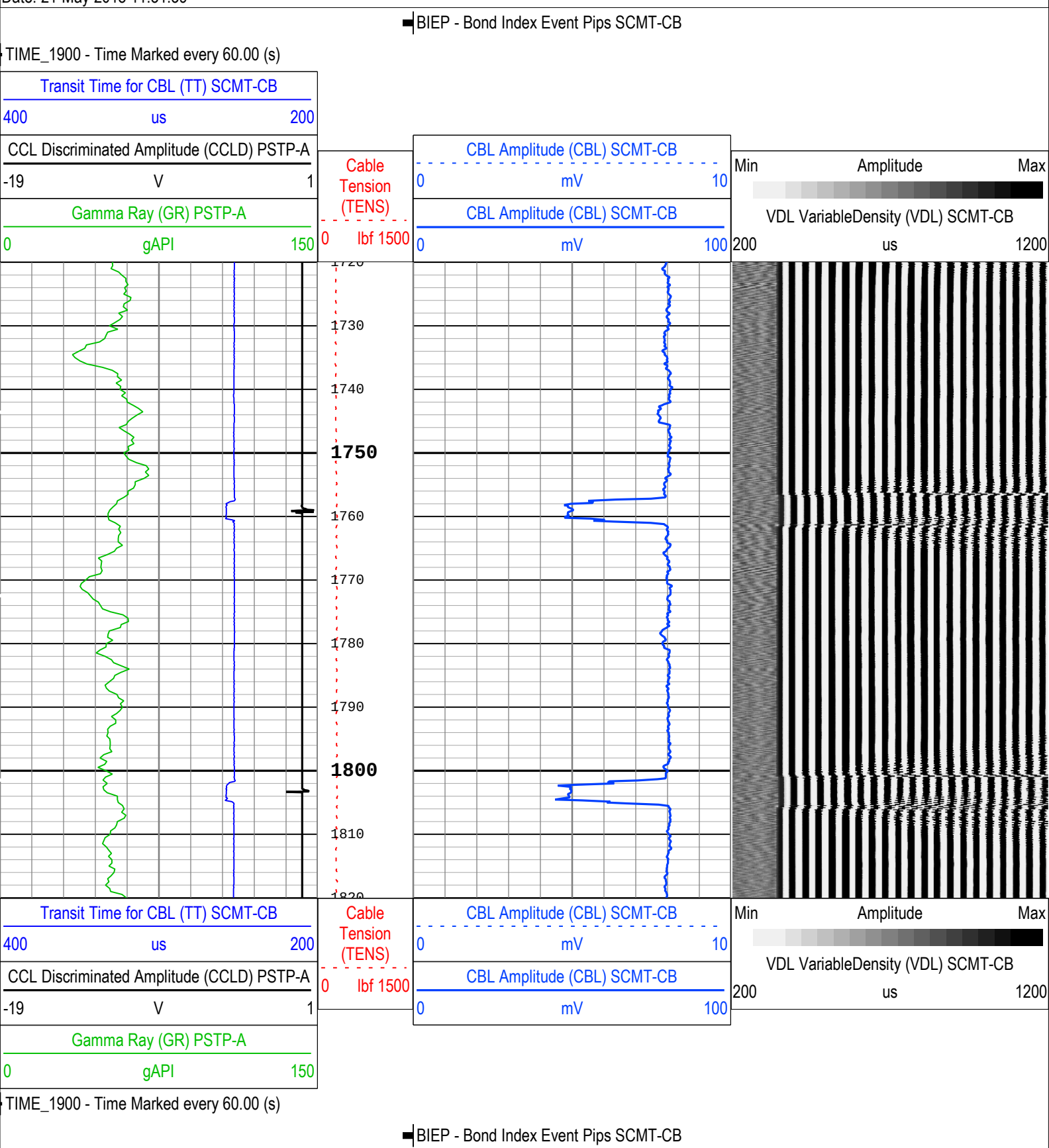
Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two	Log[9]:Up	Up	1714.43 ft	5906.39 ft	21-May-2018 07:38:15	21-May-2018 08:03:05	ON	10.94 ft	No

All depths are referenced to toolstring zero

Log

Company:Caerus Operating LLC Well:Puckett 12D-26-697 Two: Log[9]:Up:S016



Description: Sonic CBL with VDL Format: Log (Sonic CBL with VDL) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-May-2018 11:31:39

Channel Processing Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHT	Bottom Hole Temperature	Borehole	212	degF
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	SCMT-CB	224	us
CBLG	CBL Gate Width	SCMT-CB	40	us
CBRA	CBL LOG Reference Amplitude in Free Pipe	SCMT-CB	80	mV

CBRA	CBL EQC Reference Amplitude in Free Pipe	SCMT-CB	80	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DFD	Drilling Fluid Density	Borehole	8.49	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	206	us/ft
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	30	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	8322	ft
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GOBO_CURR	Good Bond in Arbitrary Cement	SCMT-CB	1.4	mV
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST(RT)	
MATT_CURR	Maximum Attenuation in Arbitrary Cement	SCMT-CB	16.92	dB/ft
MCI	Minimum Cemented Interval for Isolation	SCMT-CB	14.81	ft
MSA	Minimum Sonic Amplitude	SCMT-CB	0.51	mV
MSA_CURR	Minimum Sonic Amplitude in Arbitrary Cement	SCMT-CB	0.51	mV
PDAT	Permanent Datum	WLSESSION	GL	
RUN_SNUM	Run Sequence Number	WSDRUN	2	
SHT	Surface Hole Temperature	Borehole	68	degF

Tool Control Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
CMTM	SCMT Operating Mode	SCMT-CB	Log	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	12 dB	

Composite 1

RST Main pass

Software Version

Acquisition System	Version
Maxwell 2018	8.0.95333.3100
Application Patch	Wireline_NPD-PNX-2018CMZ_8.0.100887

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
One	Log[6]:Up	Up	2296.87 ft	6282.73 ft	09-May-2018 18:10:22	09-May-2018 20:32:21	ON	9.15 ft	Yes
Two	Log[8]:Up	Up	5907.38 ft	7369.78 ft	21-May-2018 06:45:32	21-May-2018 07:38:10	ON	9.90 ft	No
Two	Log[12]:Up	Up	6908.96 ft	8765.97 ft	21-May-2018 09:42:48	21-May-2018 10:45:24	ON	9.90 ft	No

All depths are referenced to toolstring zero

Log

Company:Caerus Operating LLC Well:Puckett 12D-26-697 Composite 1:S016

Description: RST SIGMA Answer Format: Log (RST SIGMA Answer) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-May-2018 11:31:43

IHV - Integrated Hole Volume every 10.00 (ft3)

IHV - Integrated Hole Volume every 100.00 (ft3)

ICV - Integrated Cement Volume every 10.00 (ft3)

TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)

ICV - Integrated Cement Volume every 100.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

TIME_1900 - Time Marked every 60.00 (s)

Gamma Ray (GR) PSTP-A[1]
0 gAPI 150

CCL Discriminated Amplitude (CCLD) PSTP-A[1]
-19 V 1

Cable Tension (TENS)
0 lbf 1500

Inelastic Ratio Filtered (IRAT_FIL) RST-C[1]
0.75 0

Thermal Decay Porosity (TPHI) RST-C[1]
0.6 ft3/ft3 0

Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C[1]
0 100

Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C[1]
45 0

Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C[1]
60 cu 0

2300
2310
2320
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2340
2350
2360
2370
2380
2390
2400
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2420
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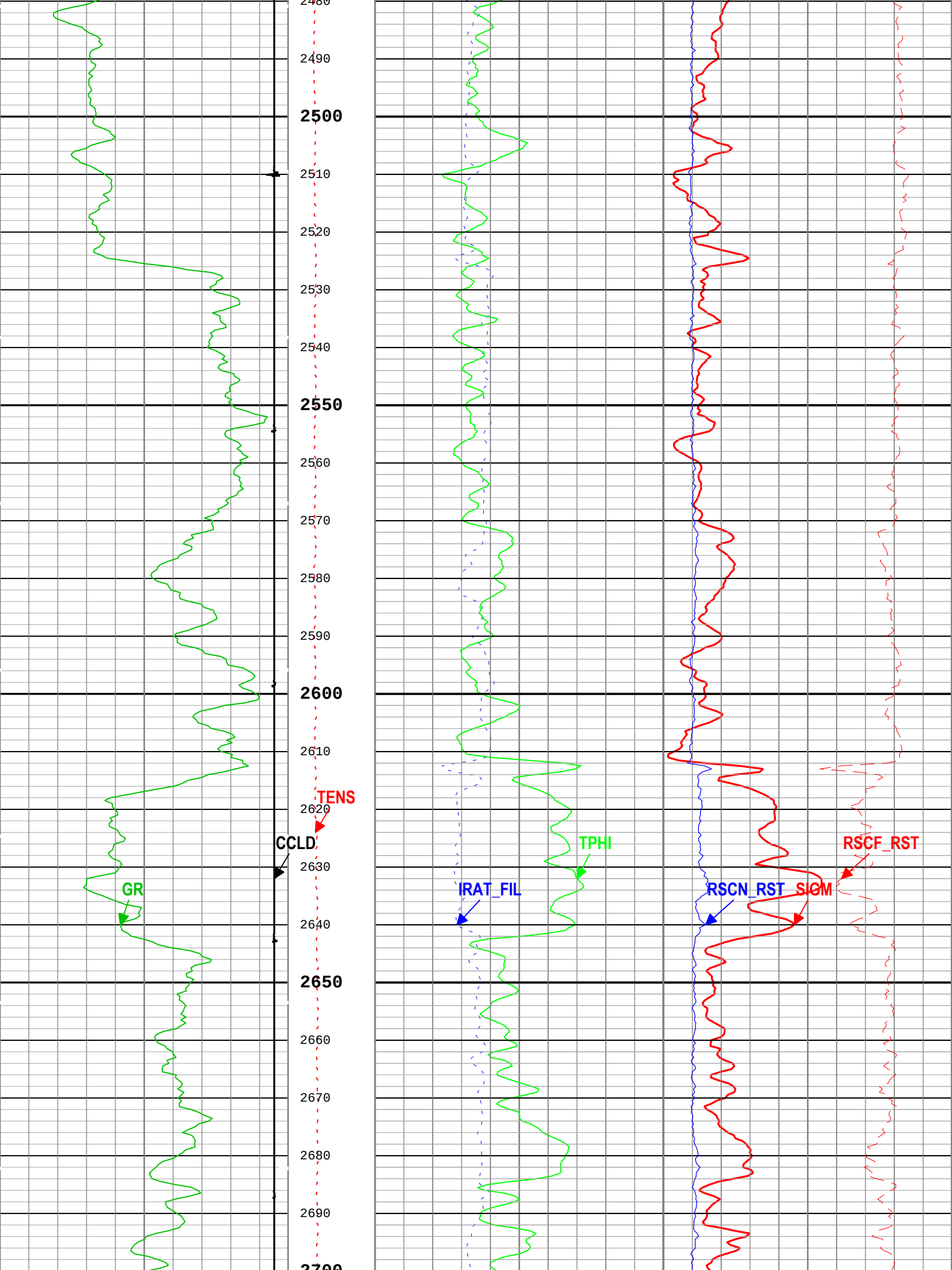
RSCN_RST
RSCF_RST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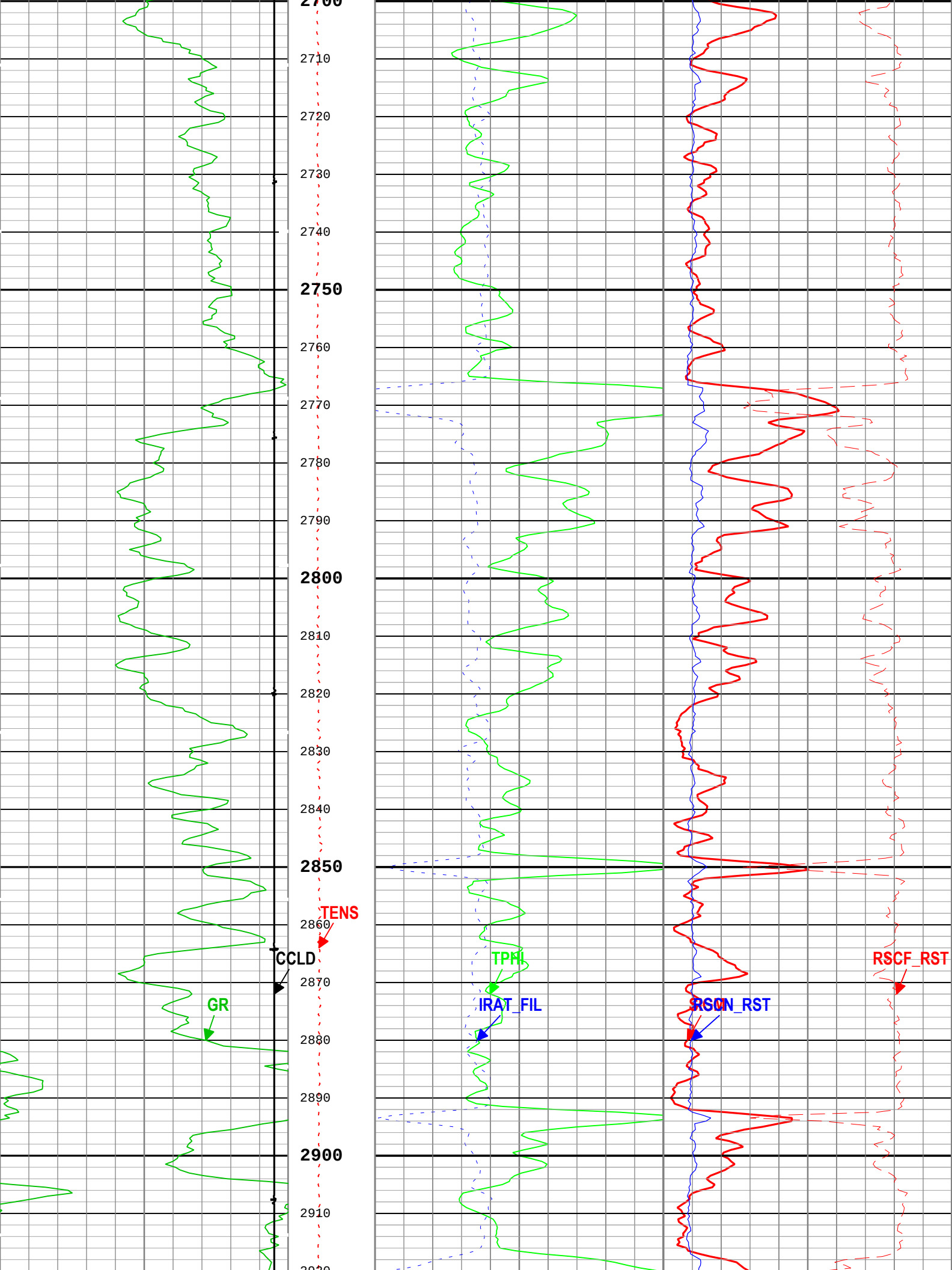
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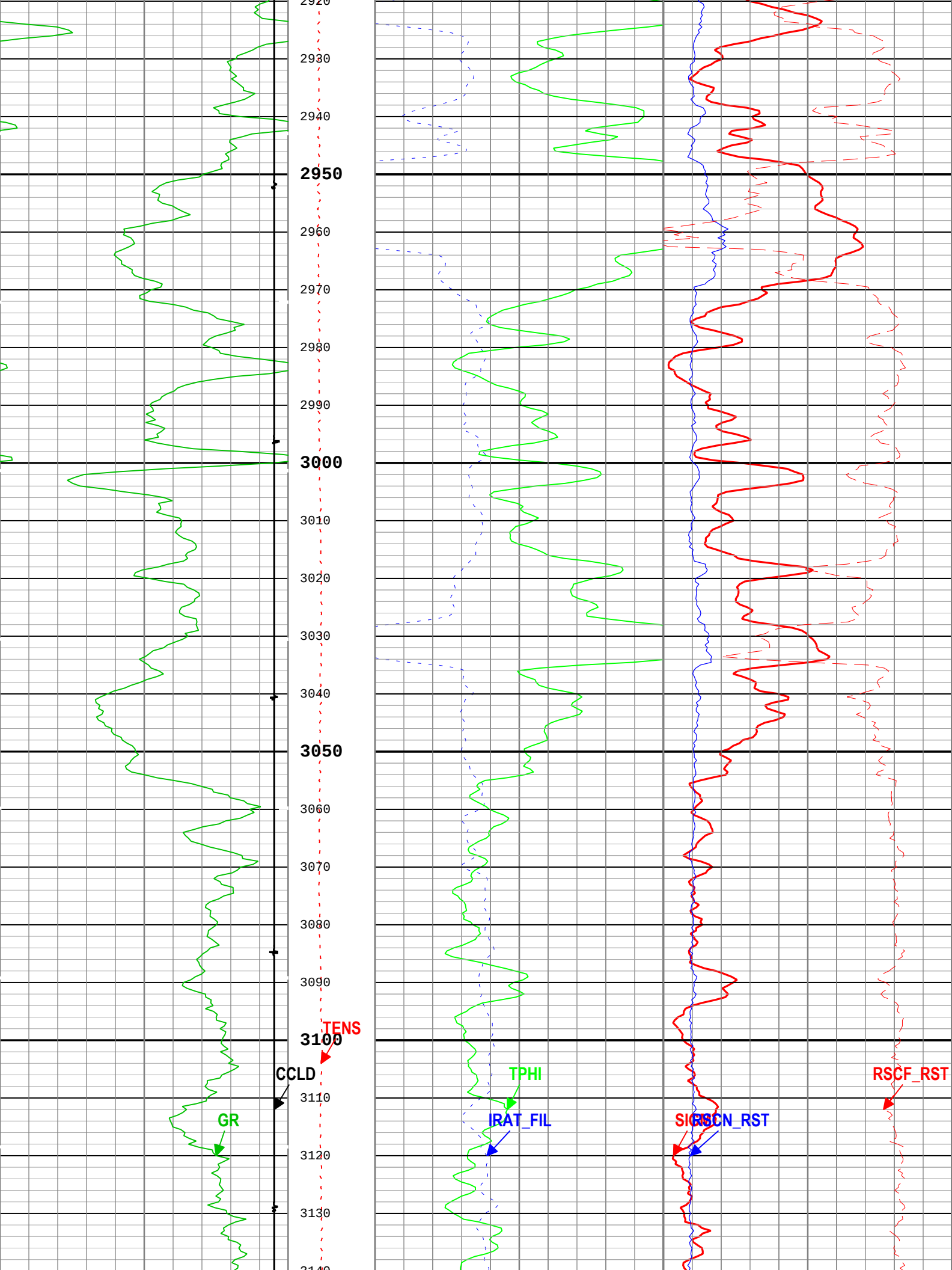
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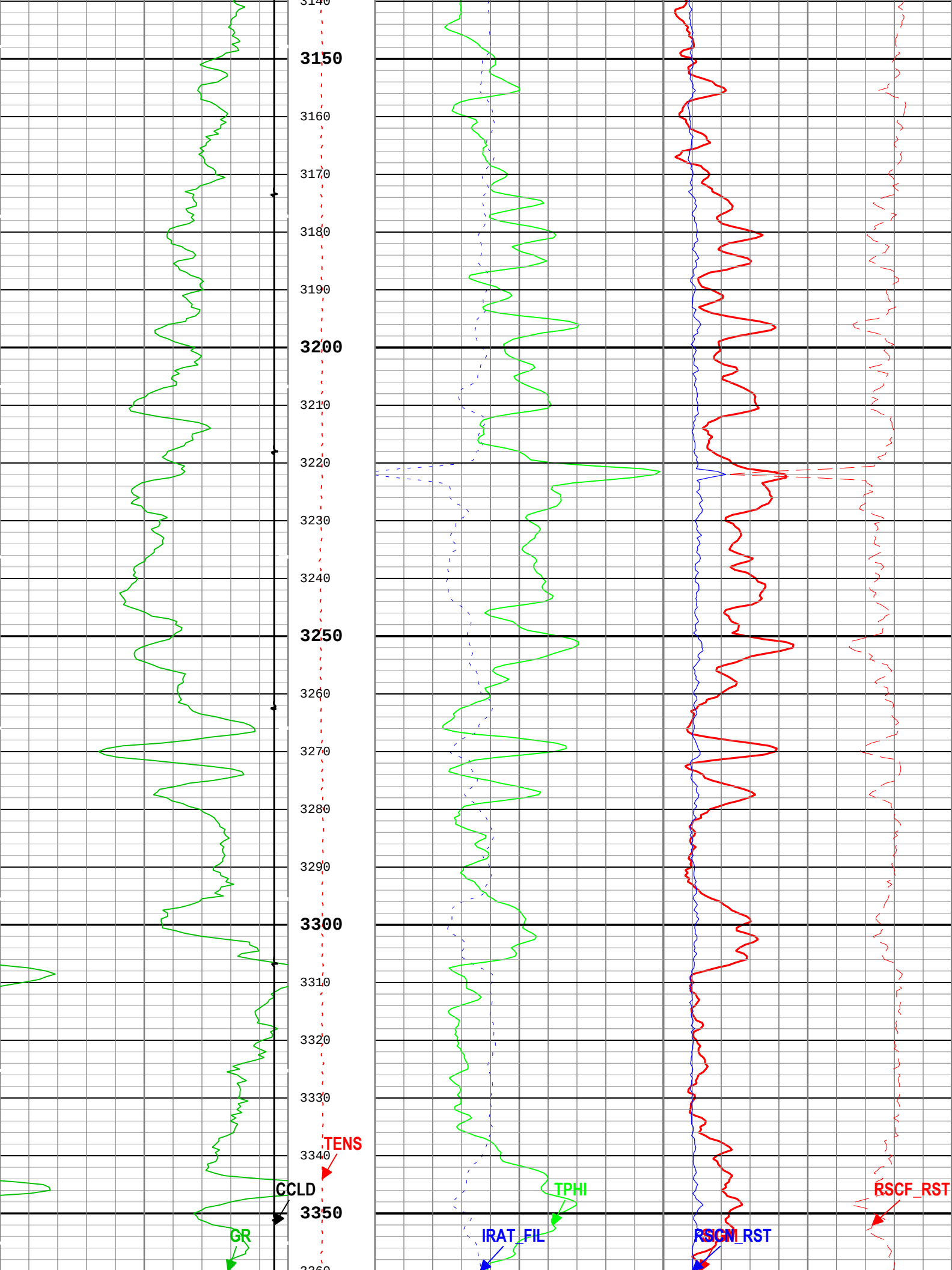
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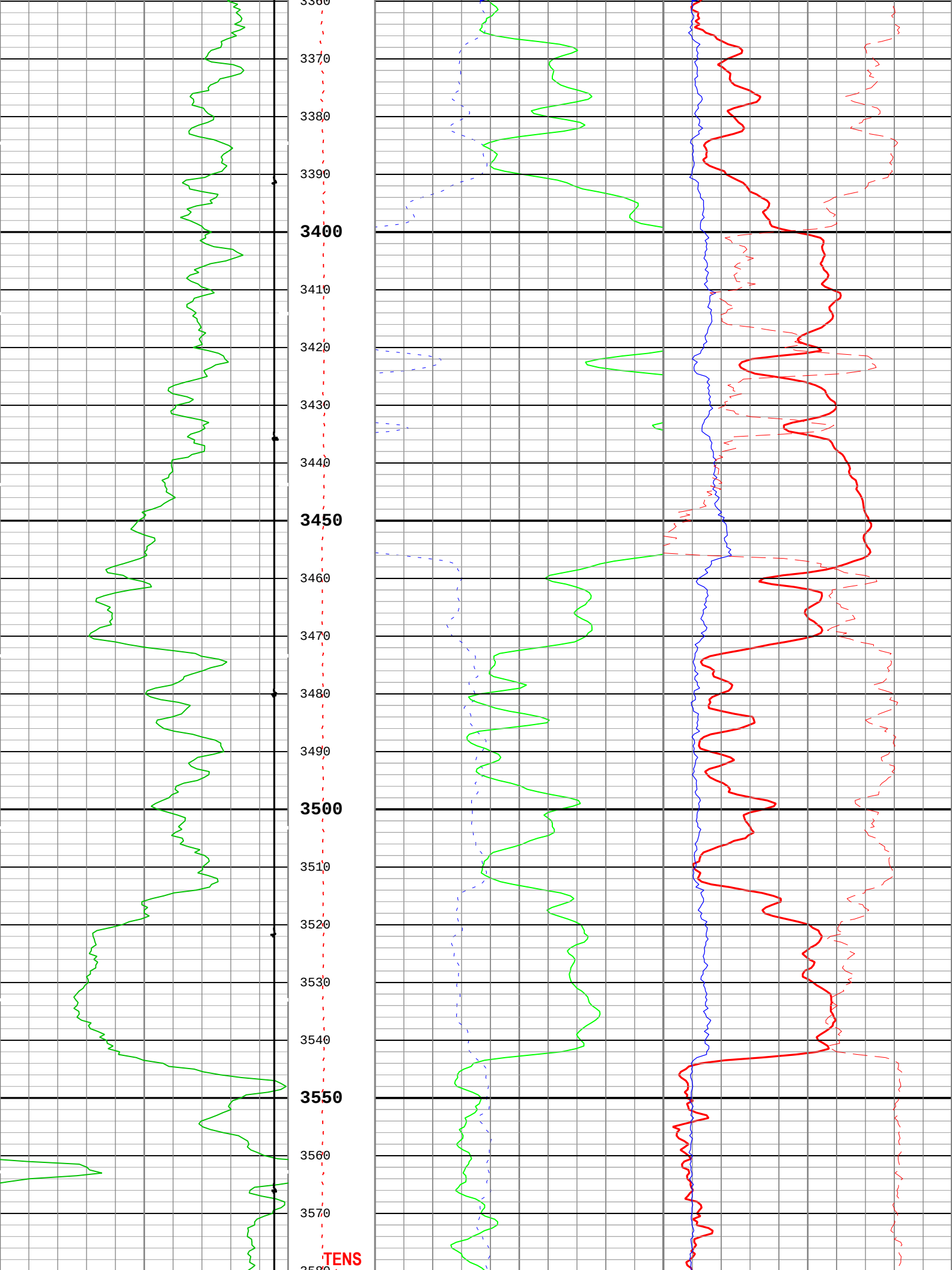
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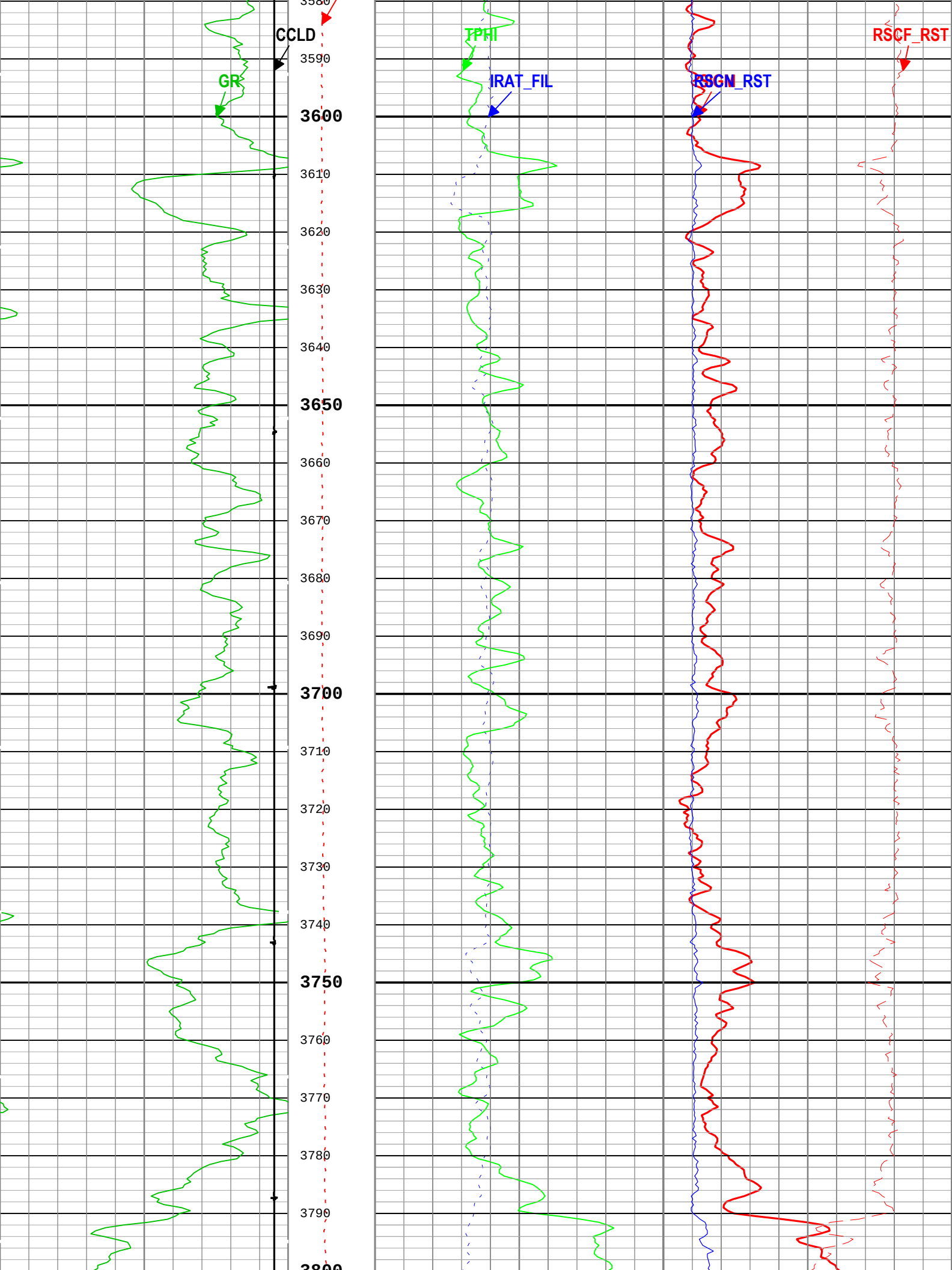
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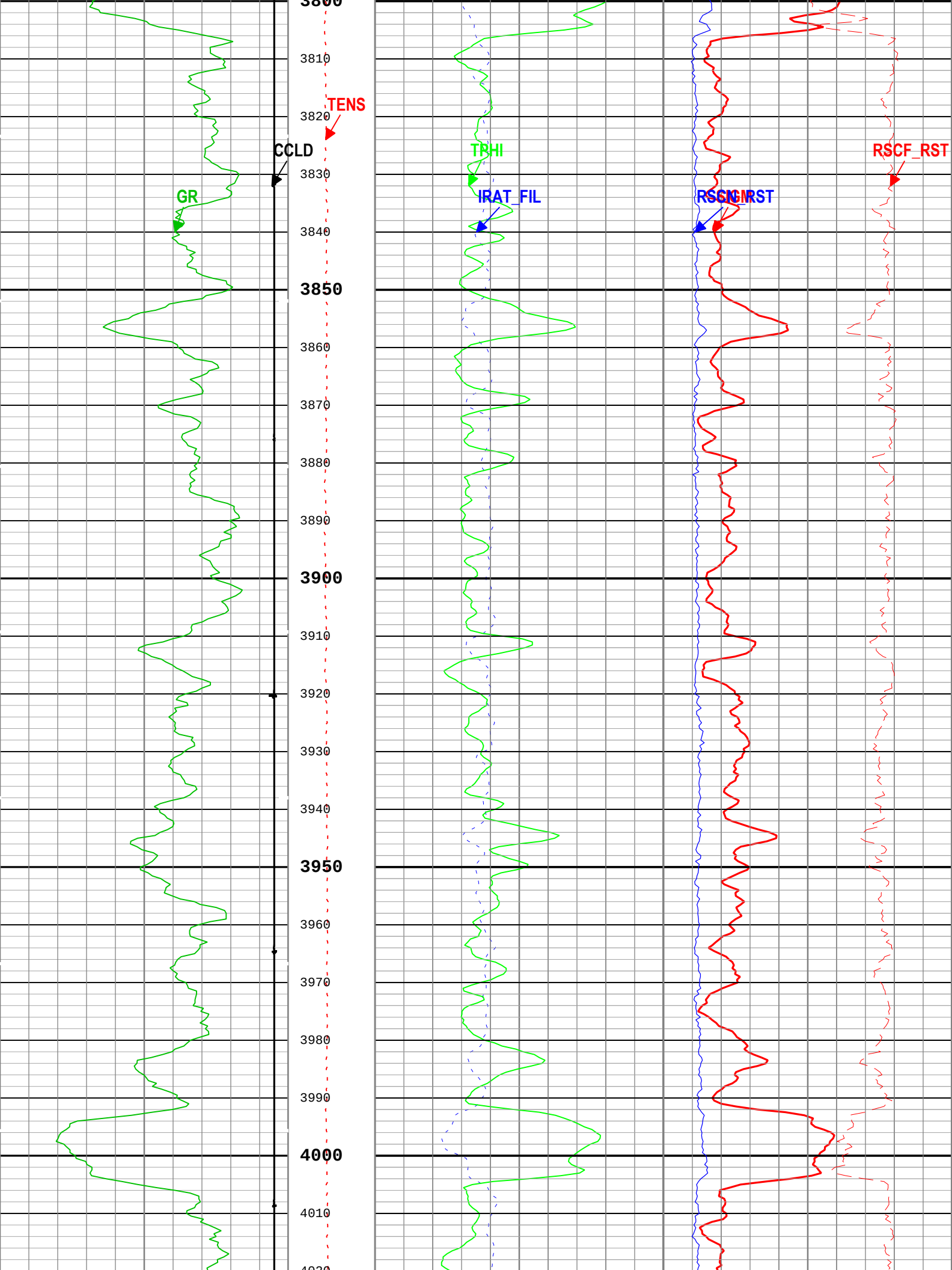
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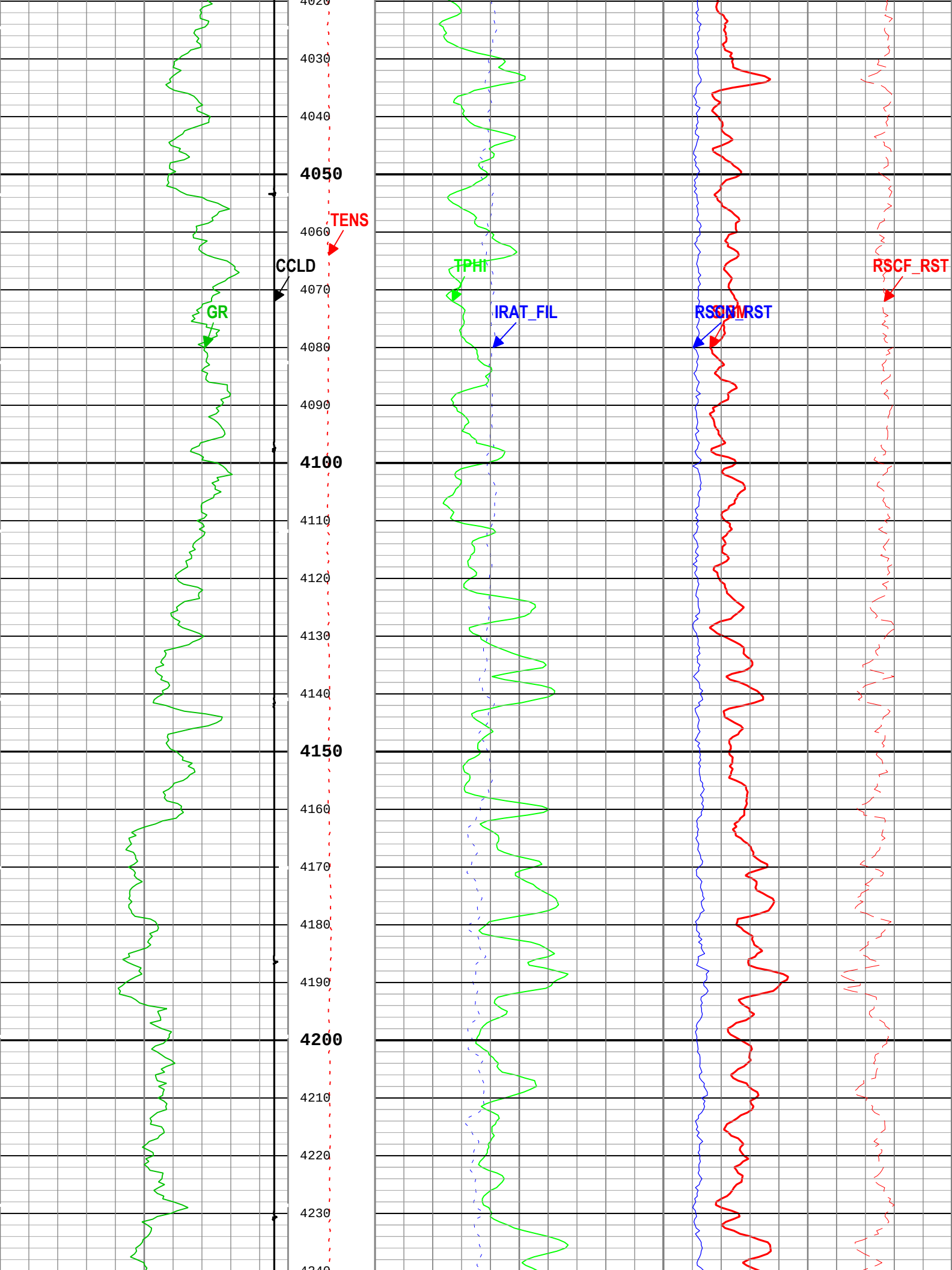
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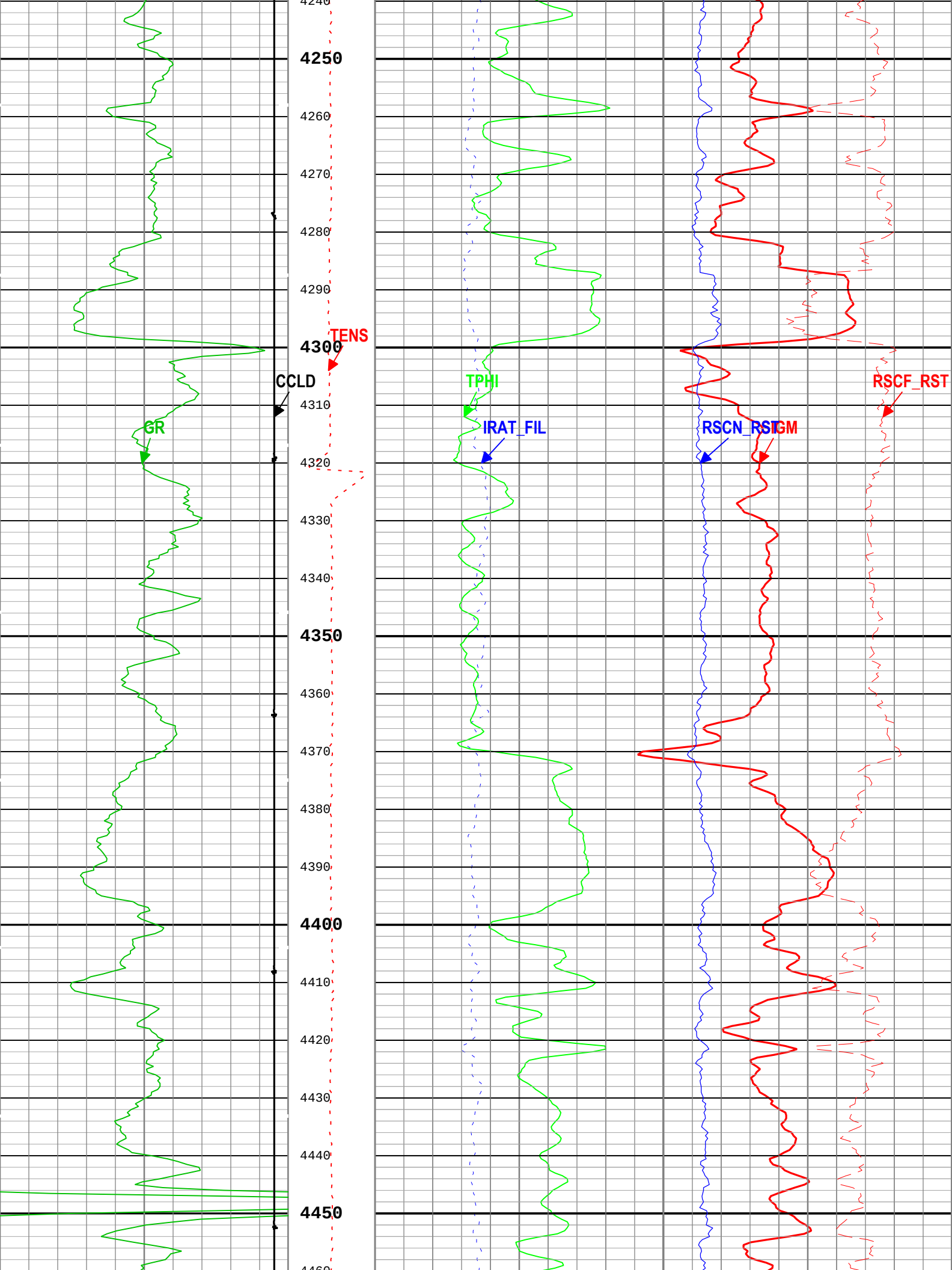
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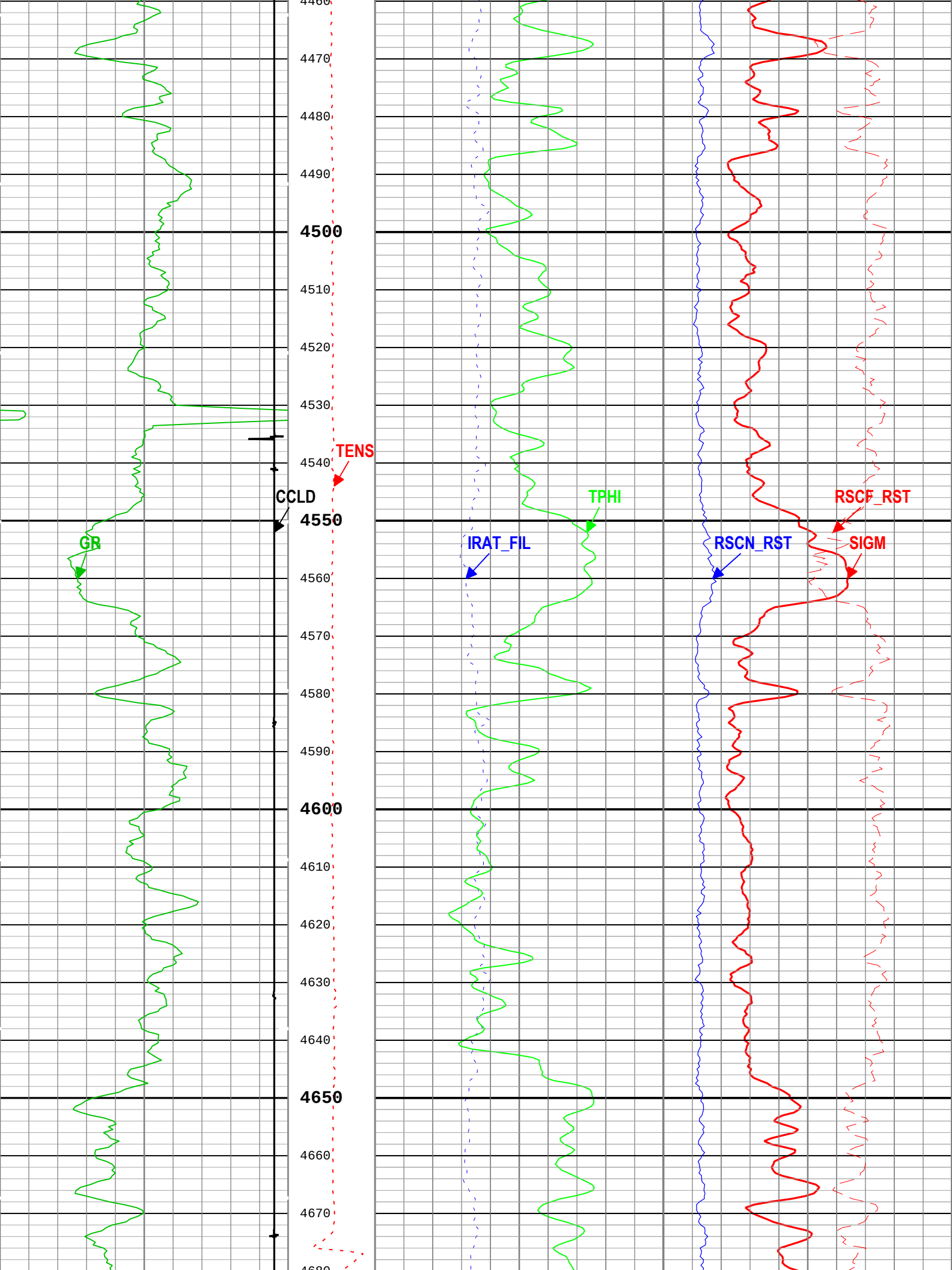
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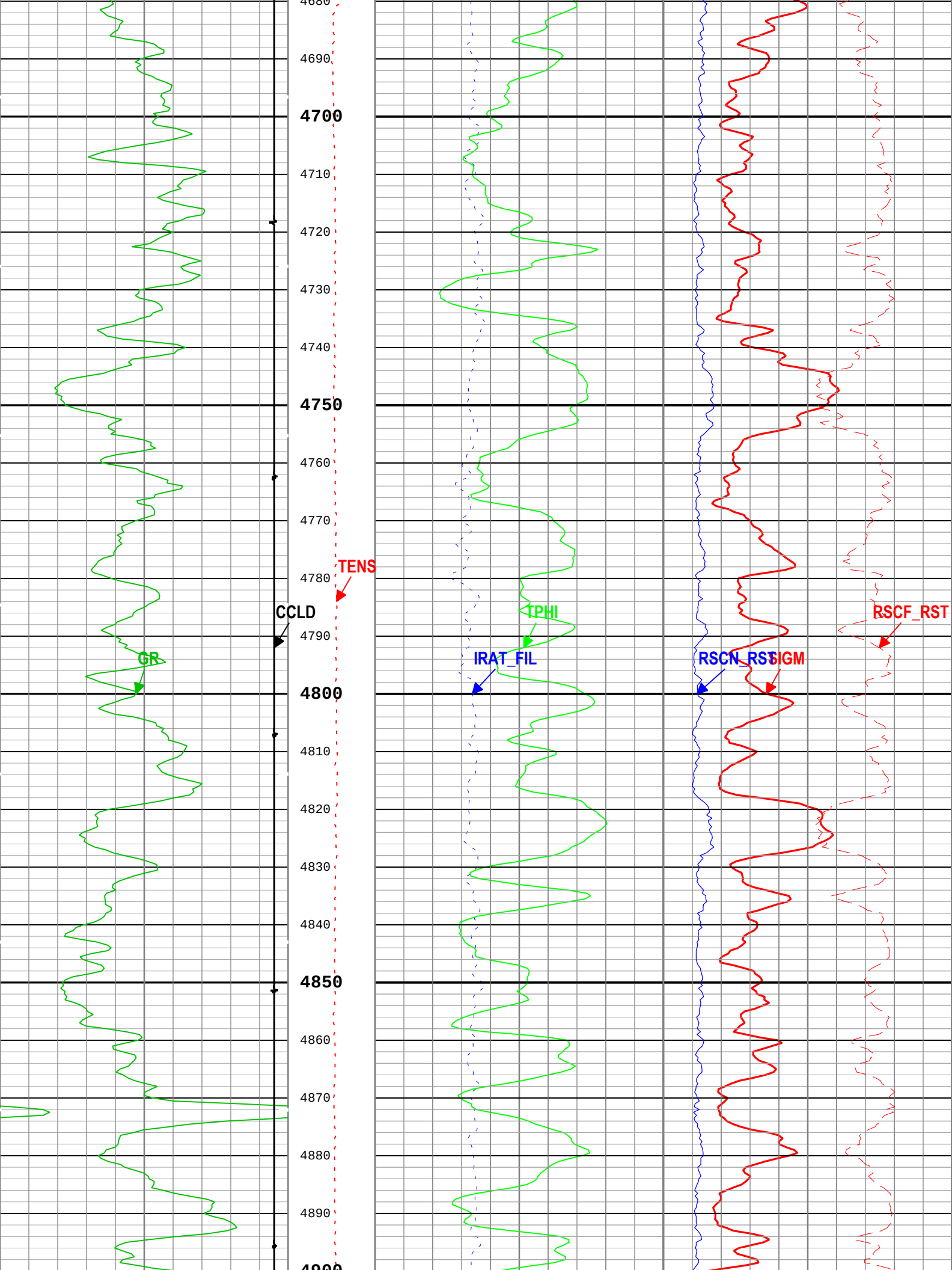
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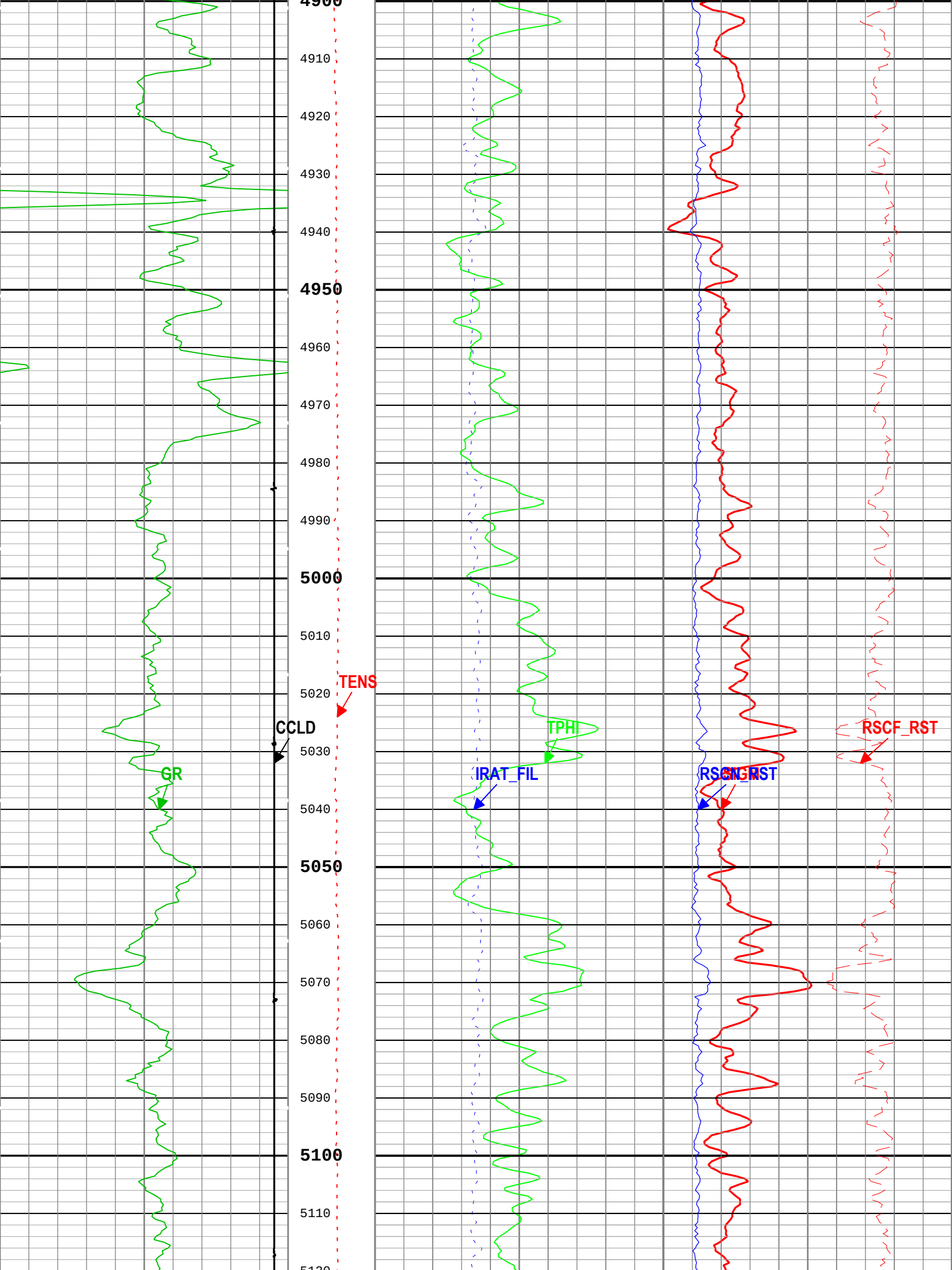
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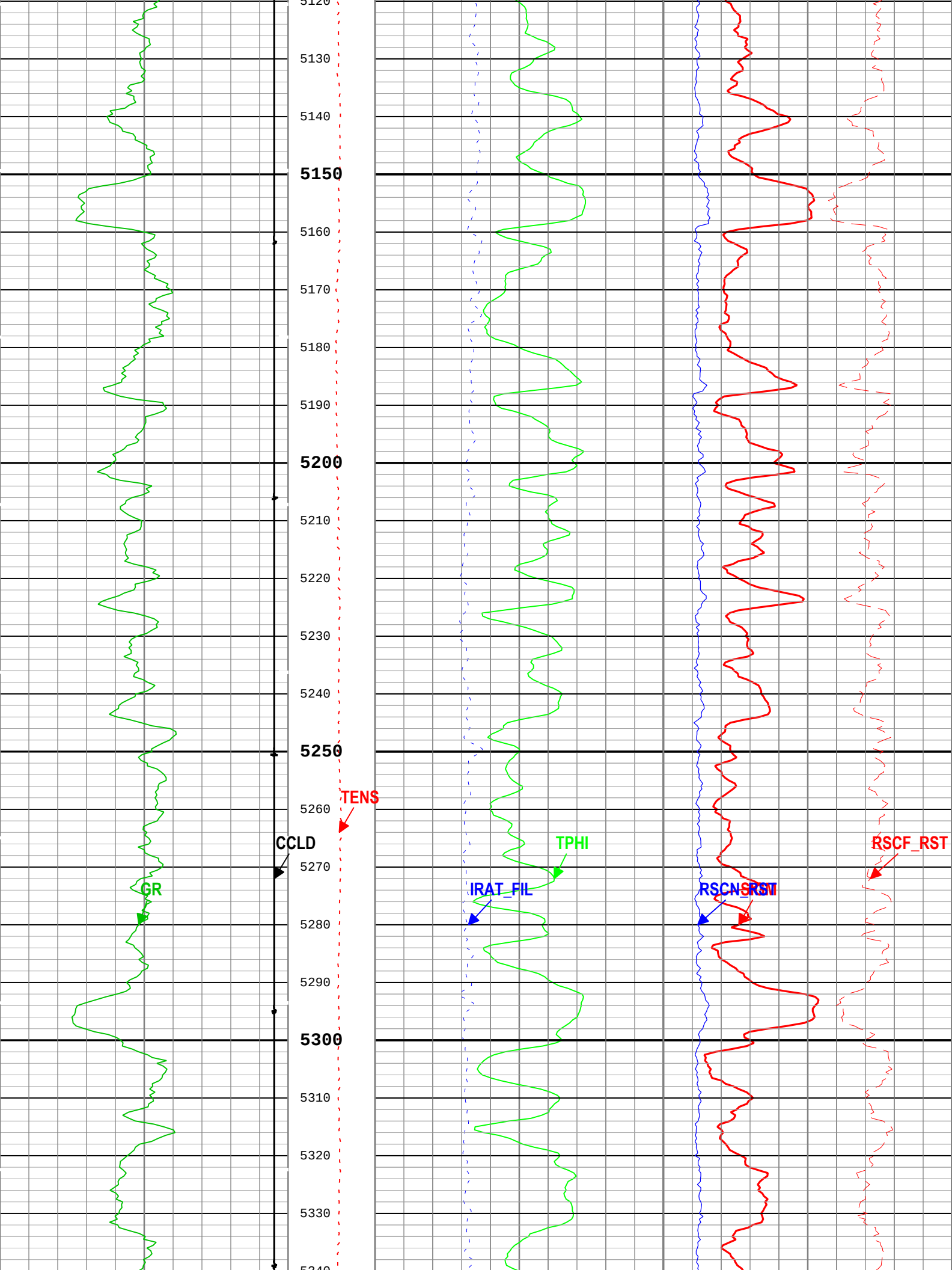
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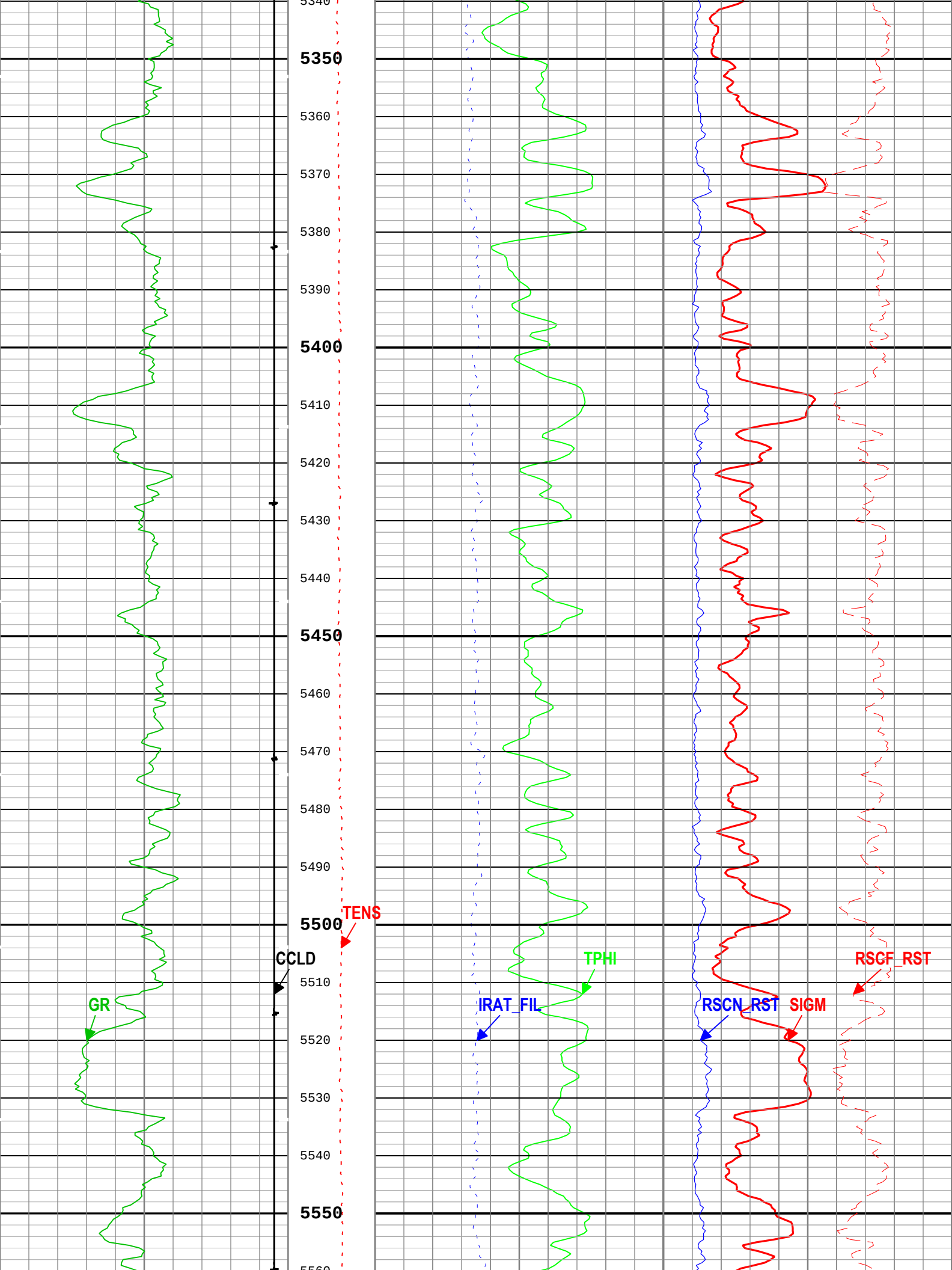
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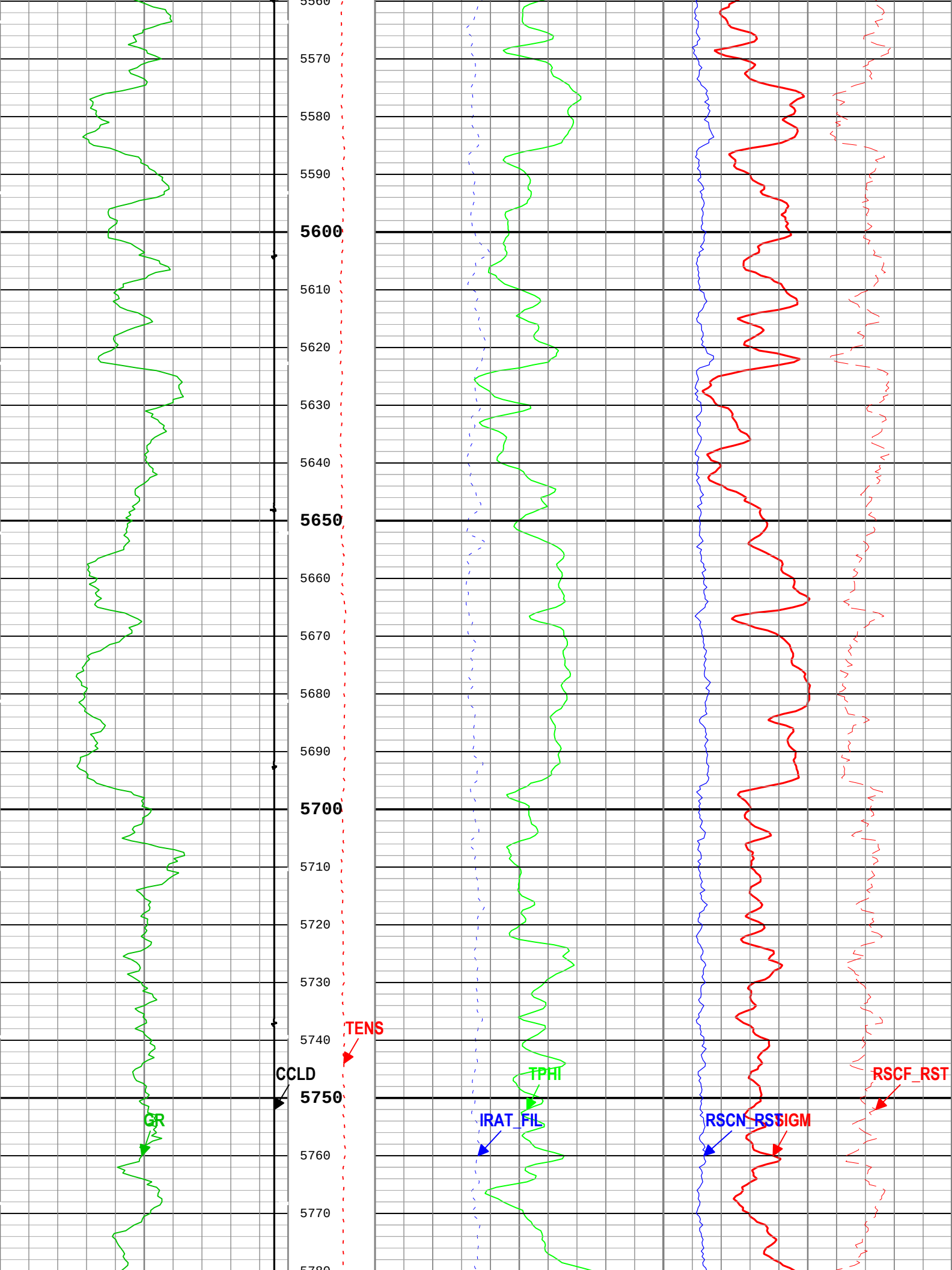
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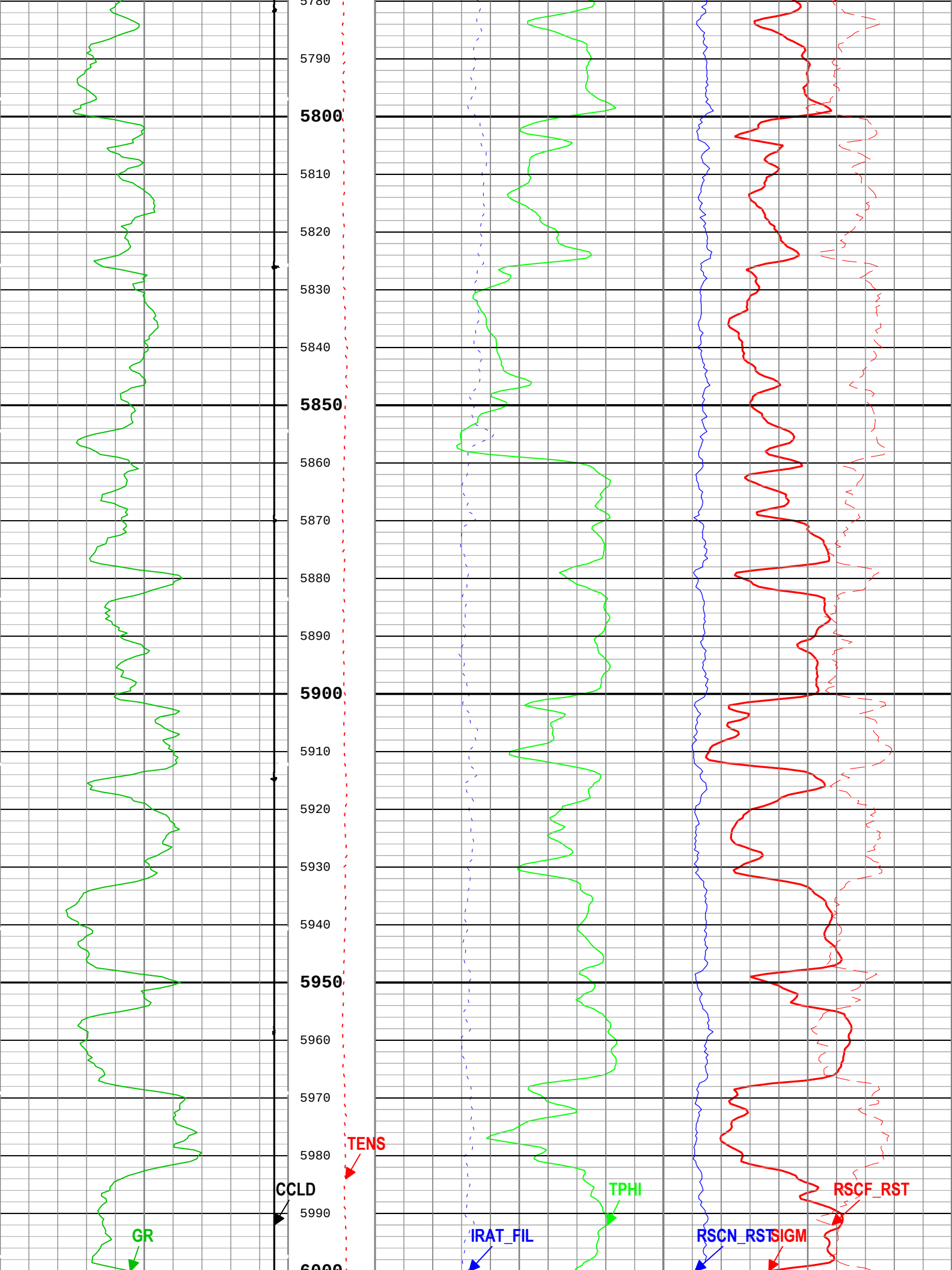
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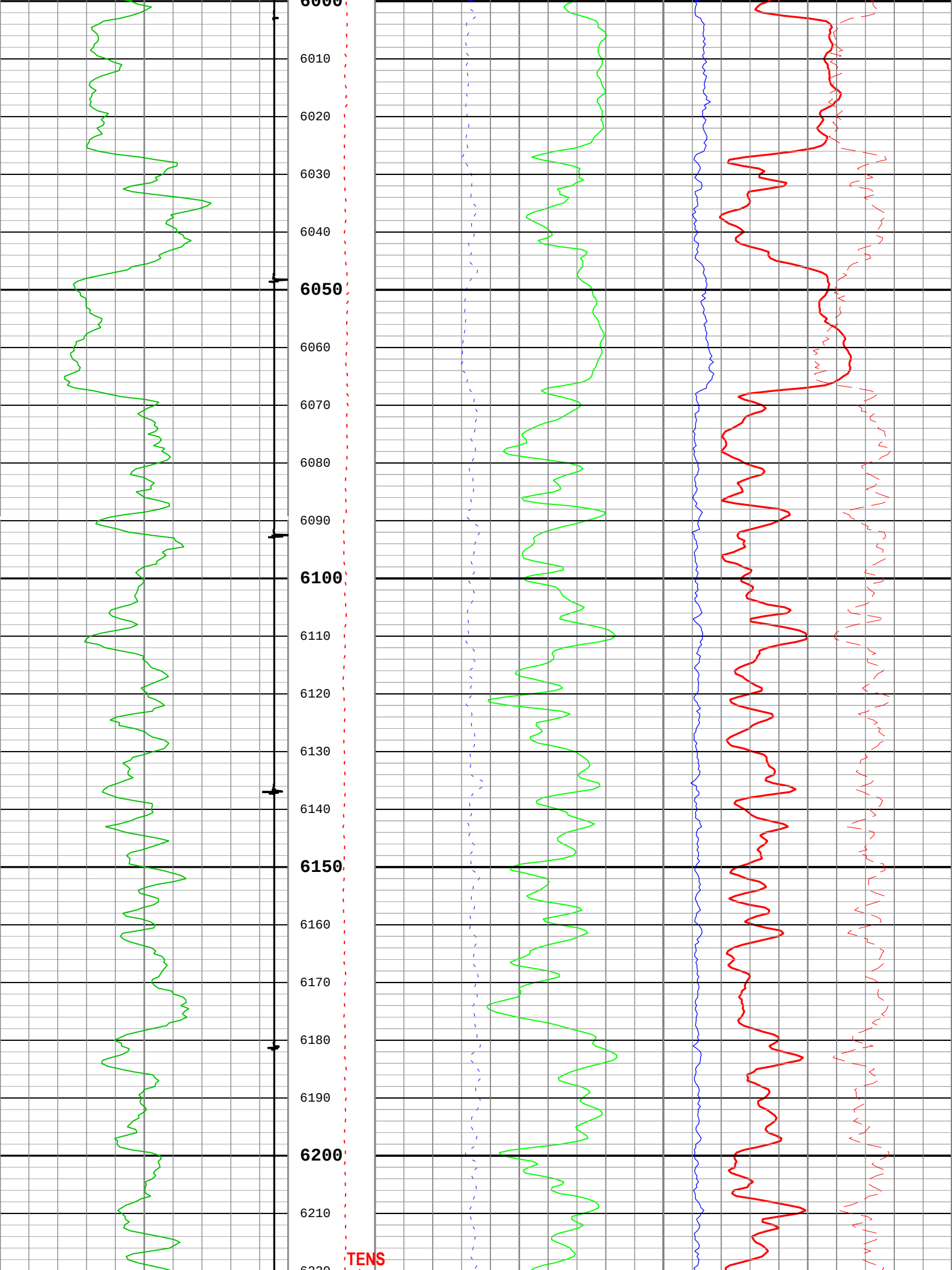
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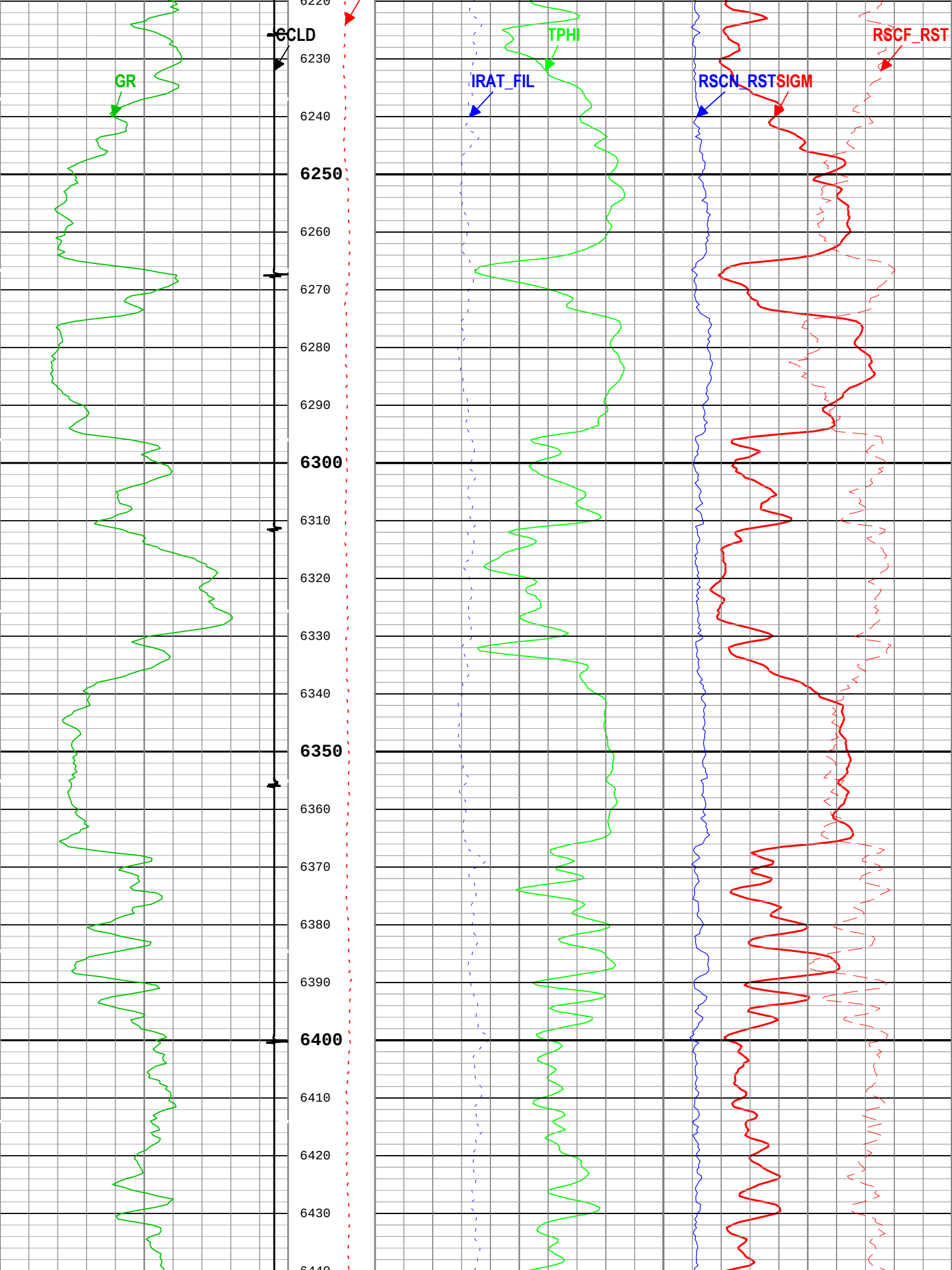
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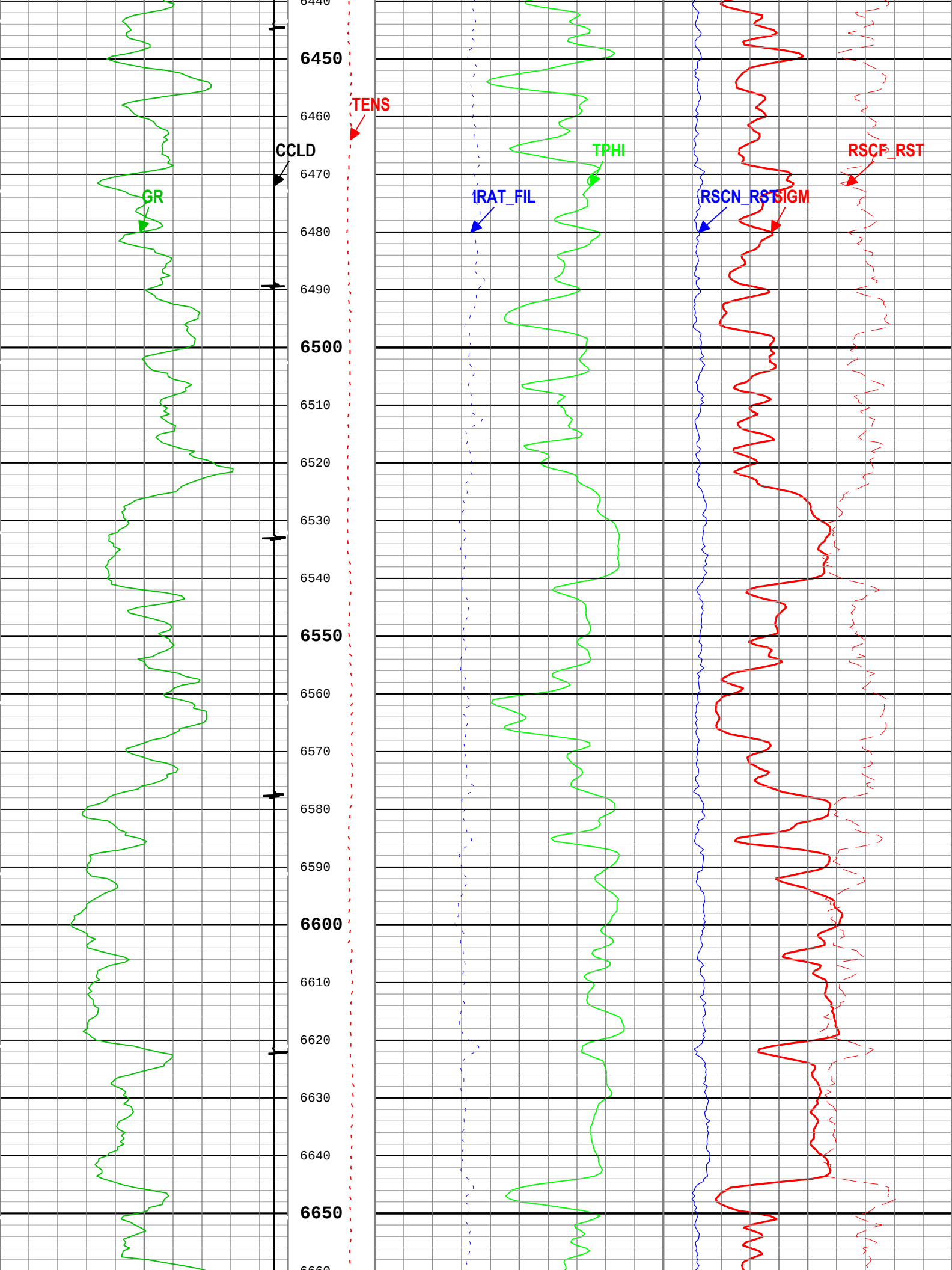
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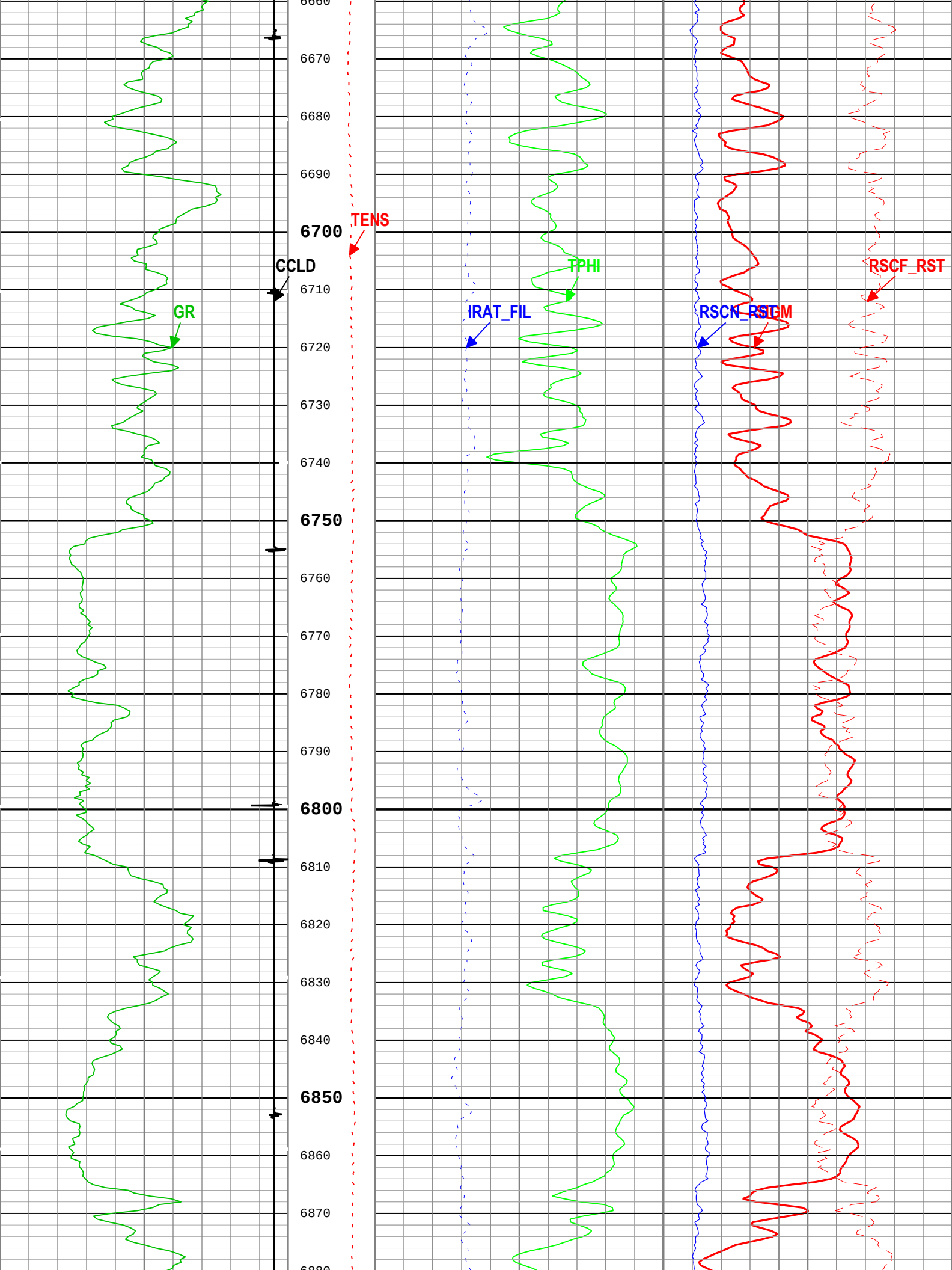
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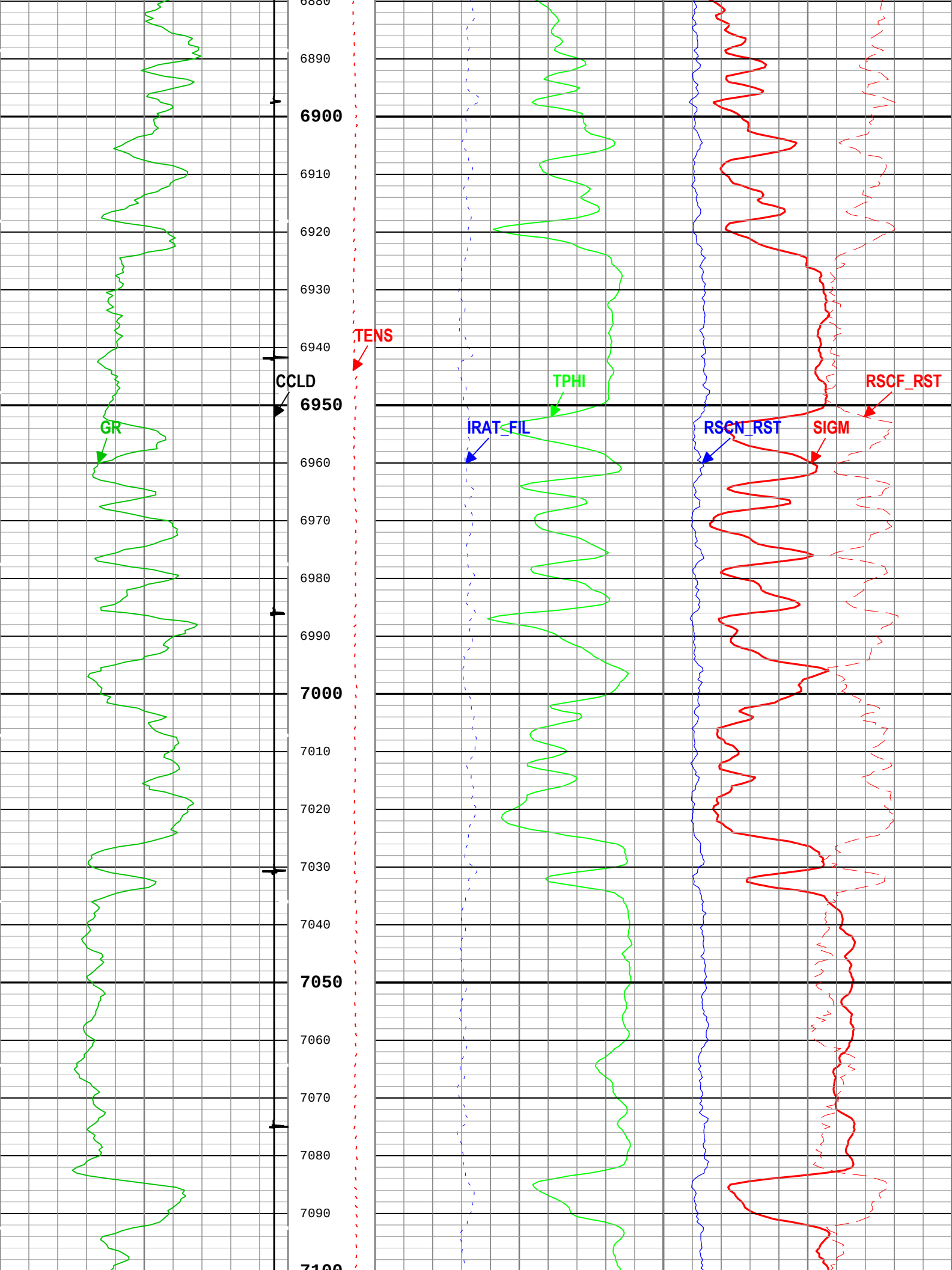
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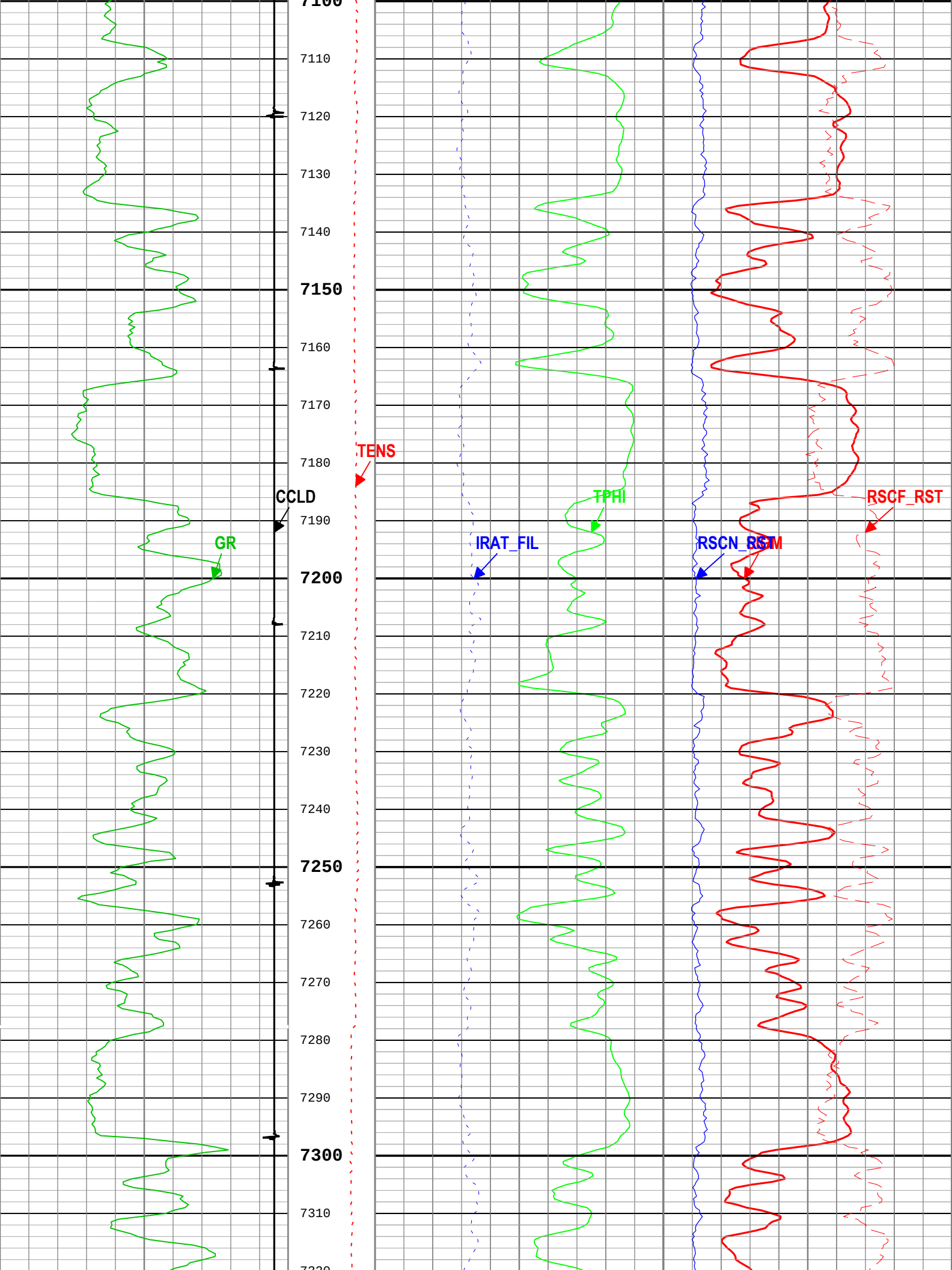
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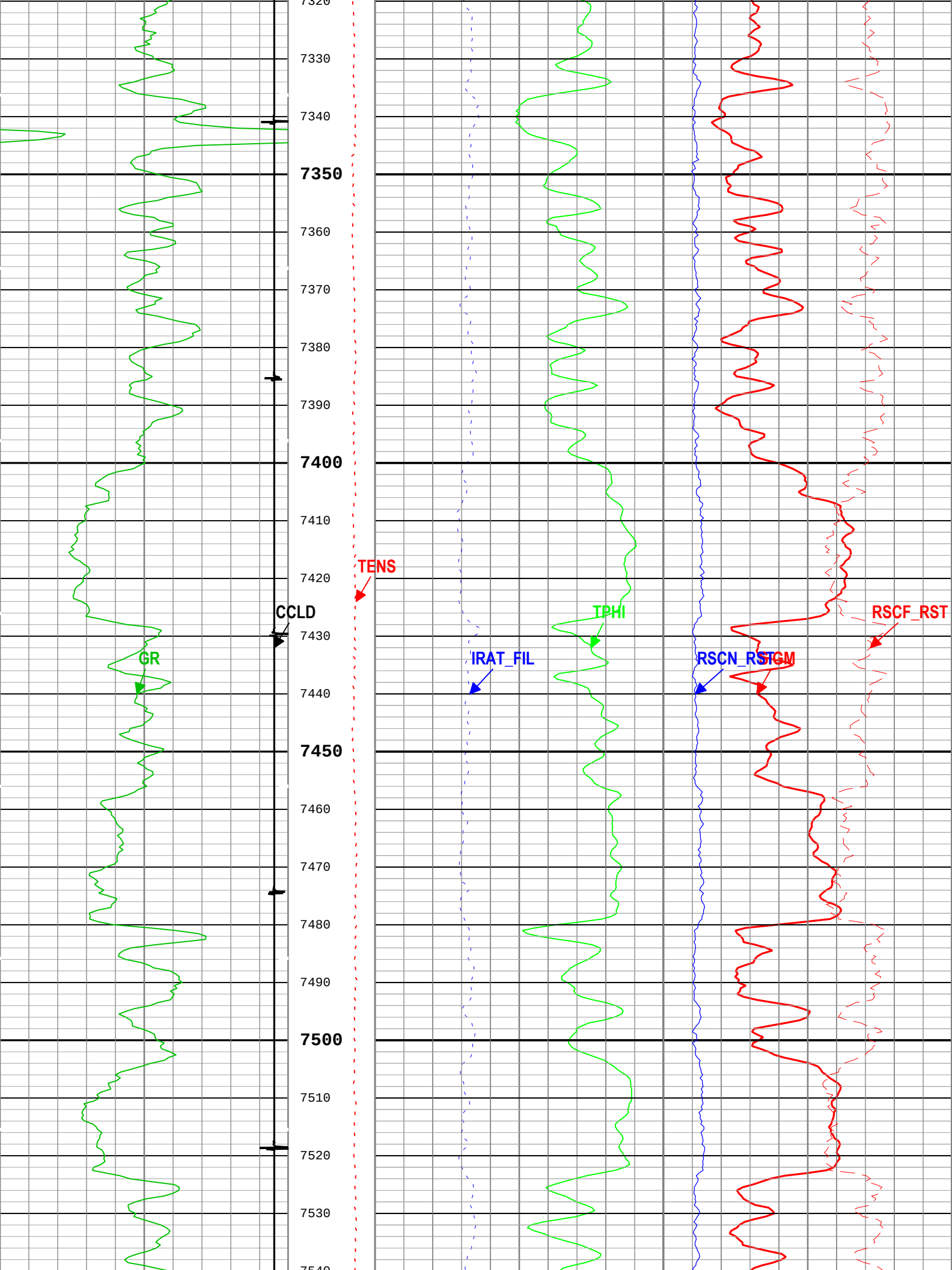
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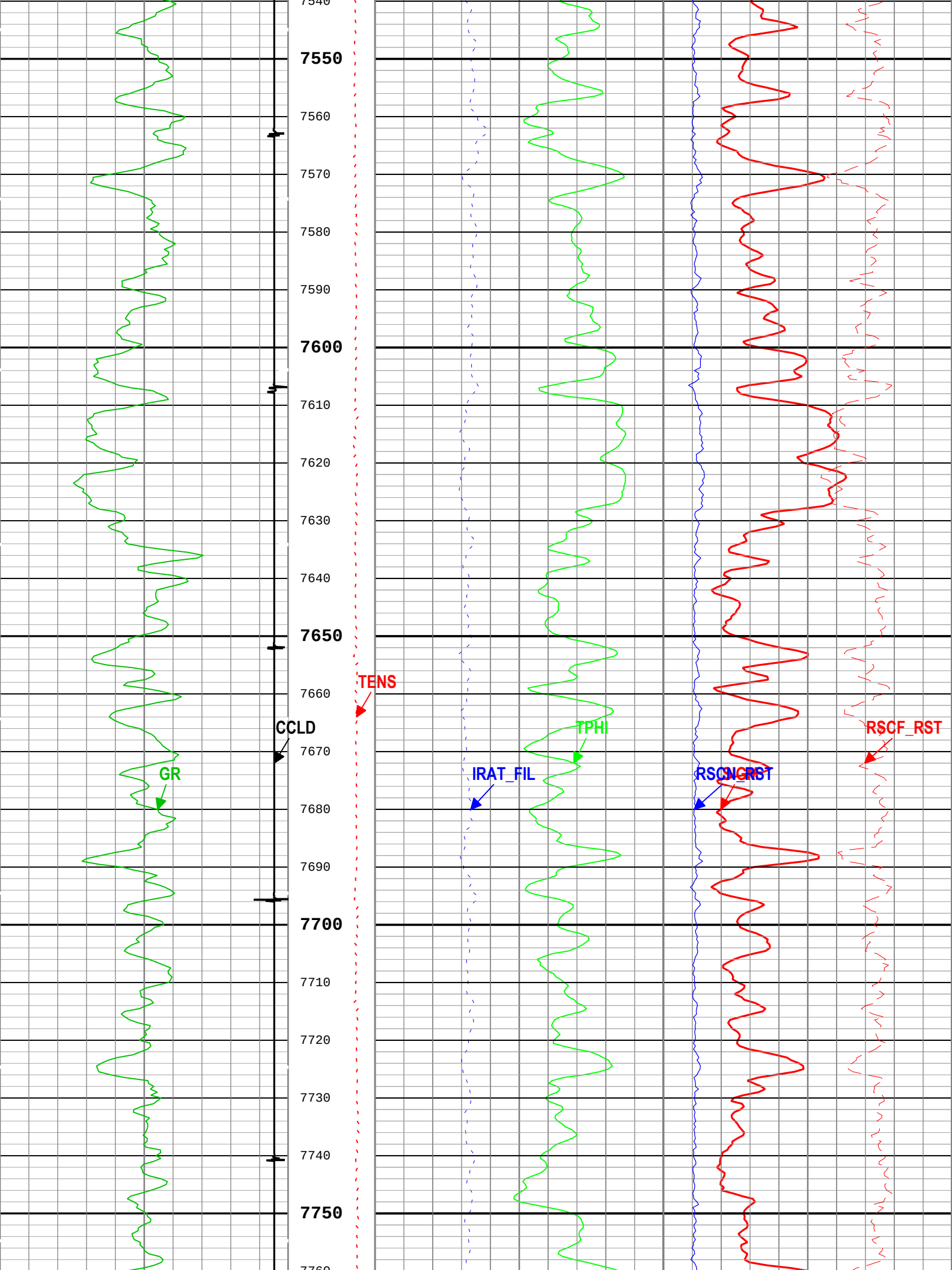
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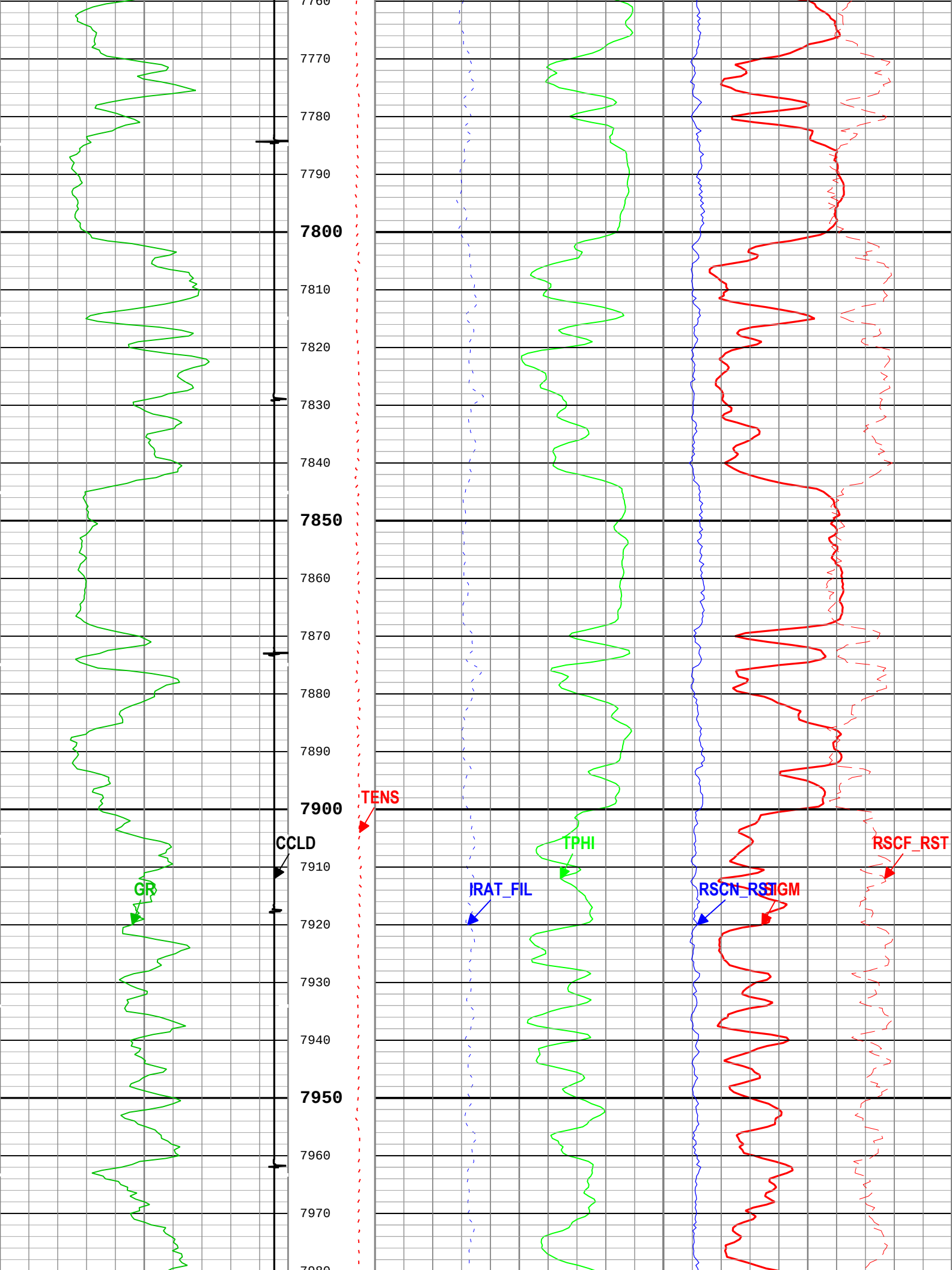
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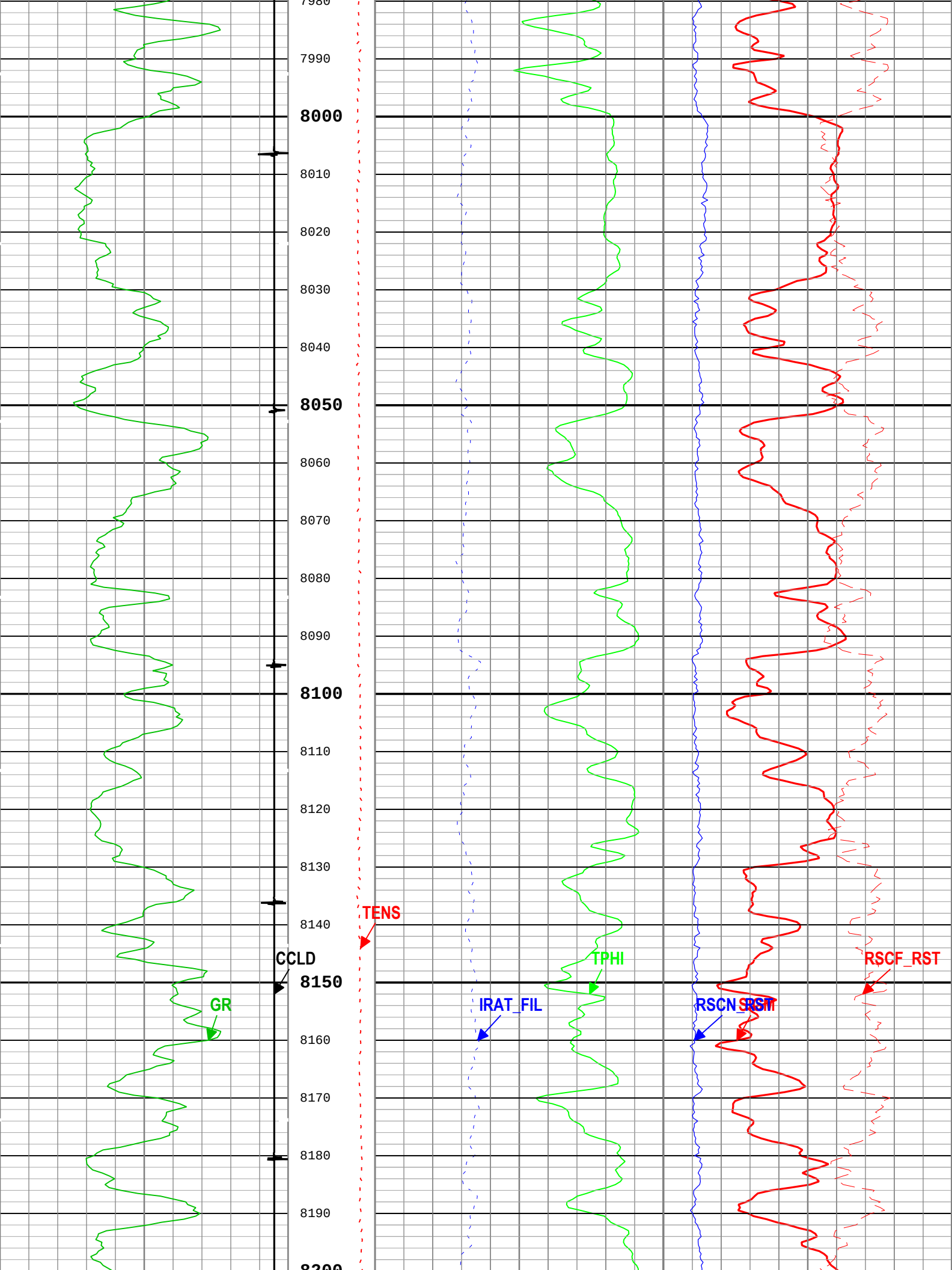
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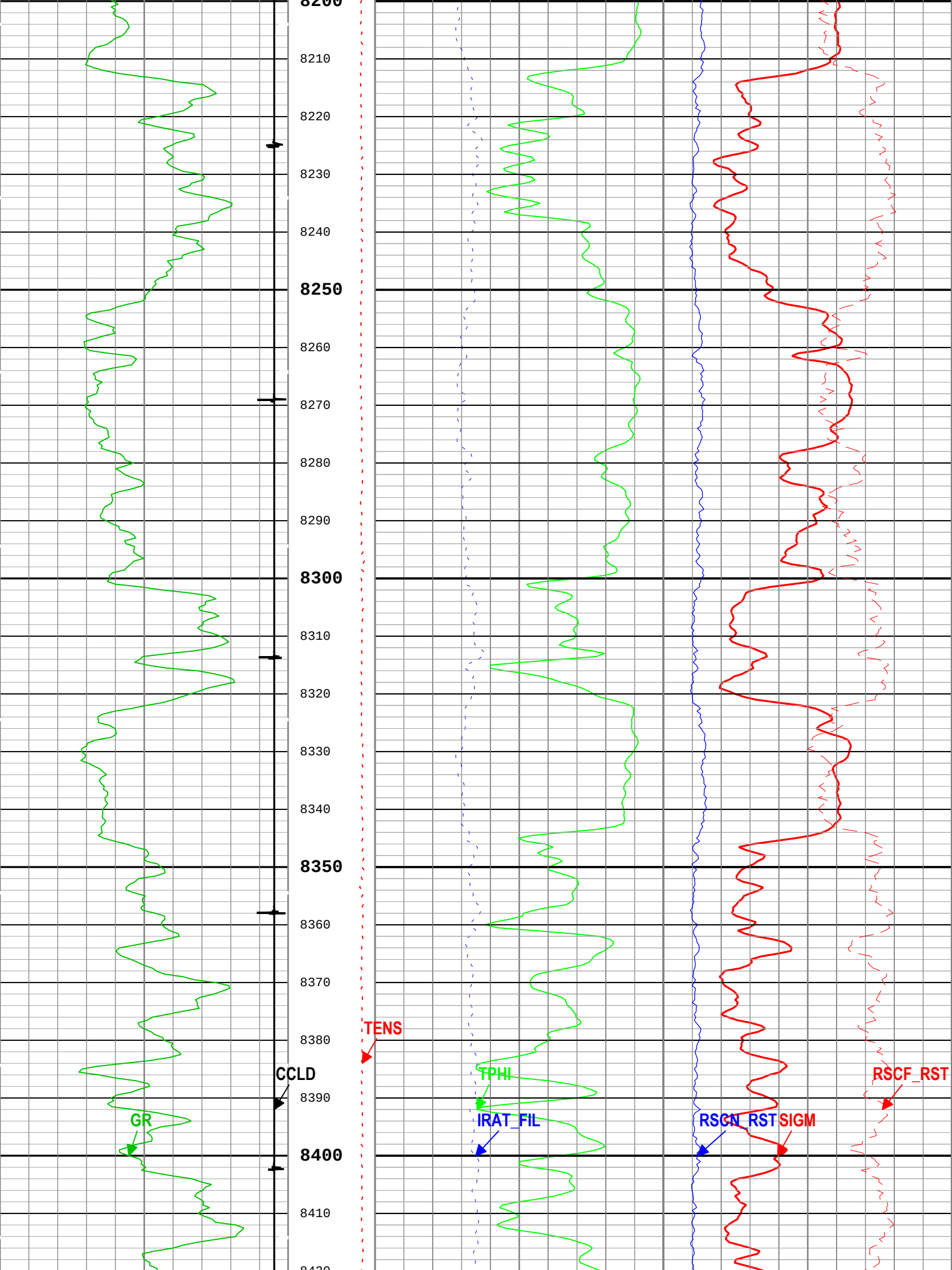
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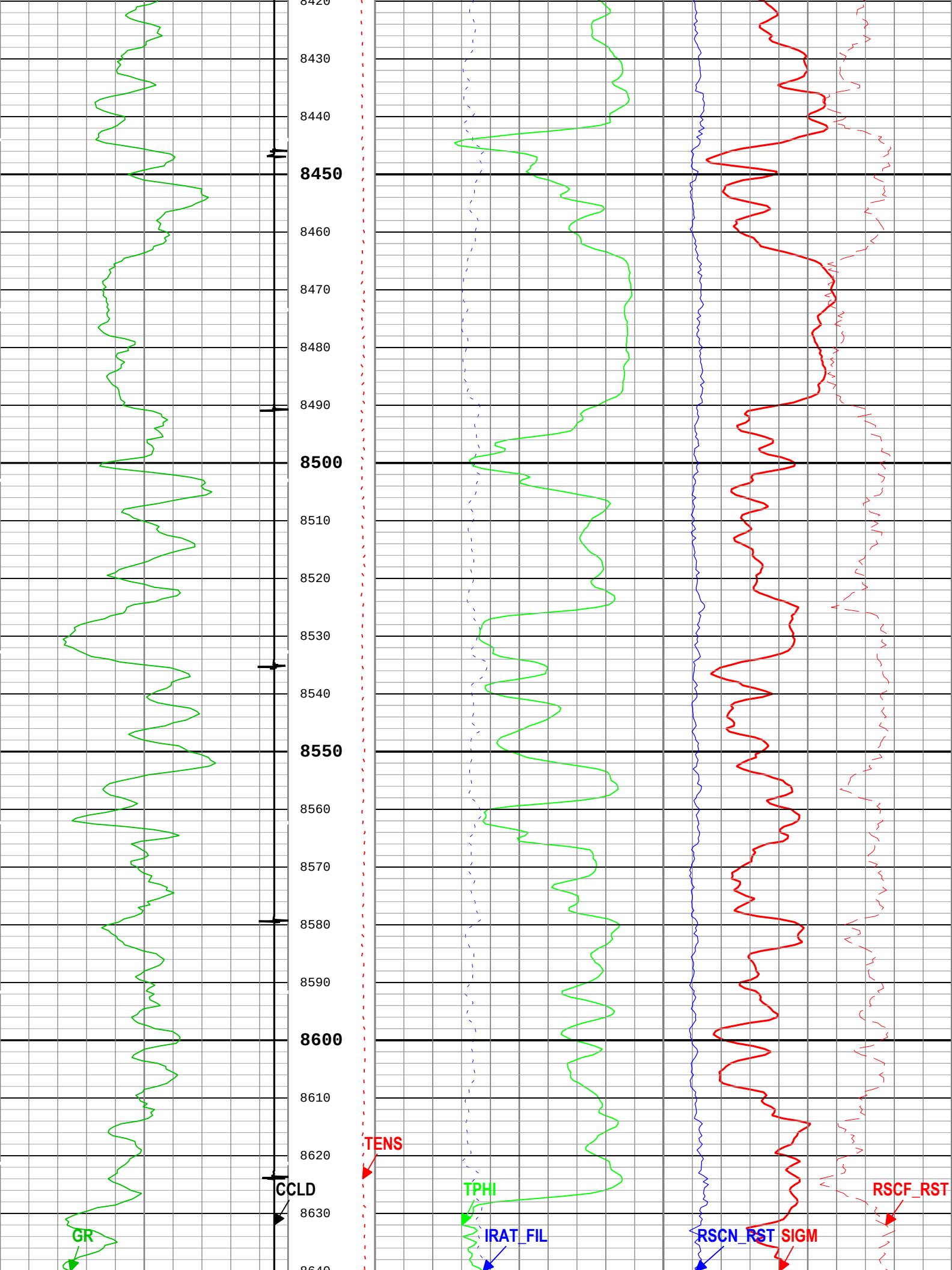
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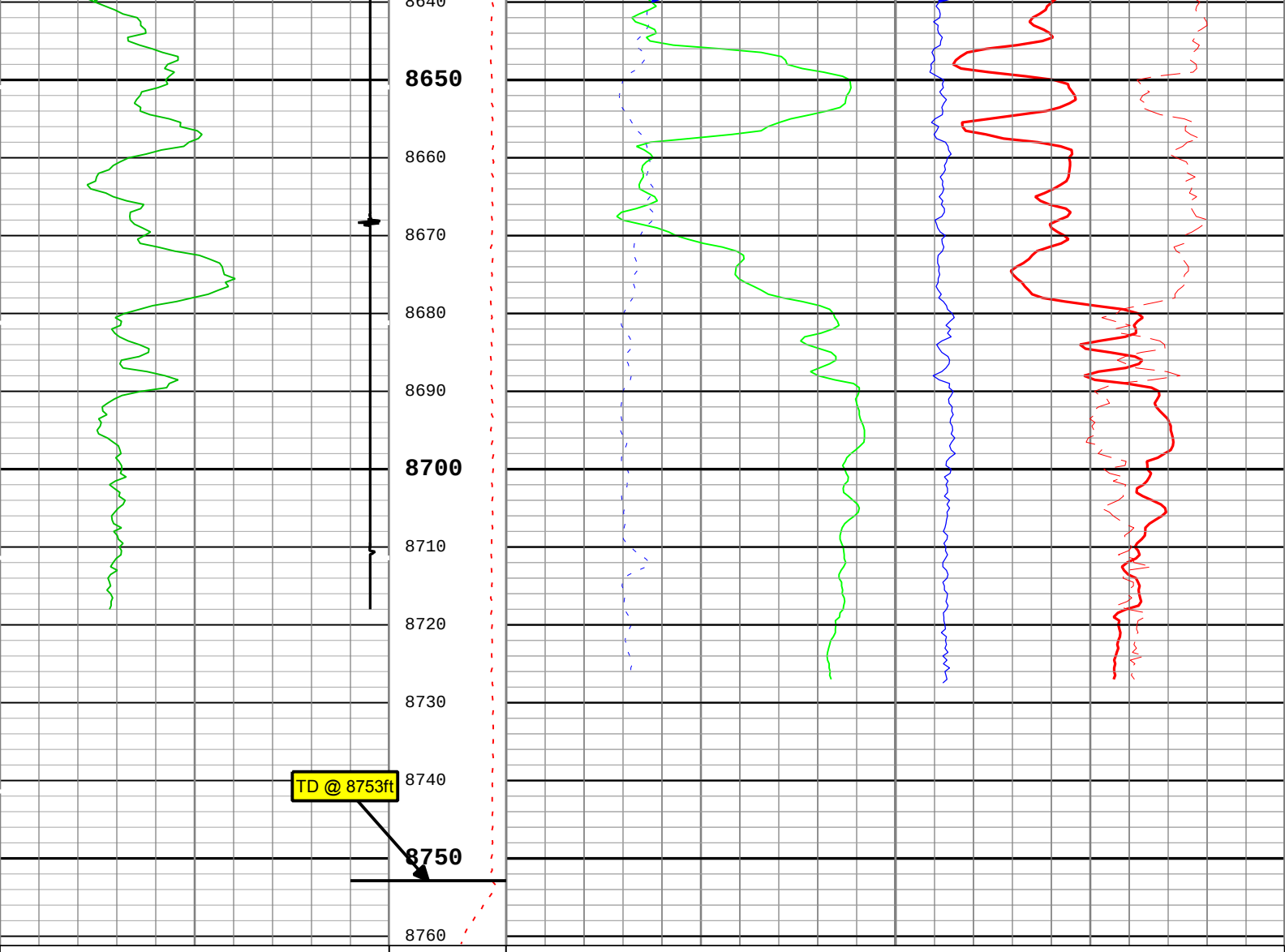


Gamma Ray (GR) PSTP-A[1]
0 gAPI 150

CCL Discriminated Amplitude (CCLD) PSTP-A[1]
-19 V 1

Cable Tension (TENS)
0 lbf 1500

Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C[1]
60 cu 0

Inelastic Ratio Filtered (IRAT_FIL) RST-C[1]
0.75 0

Thermal Decay Porosity (TPHI) RST-C[1]
0.6 ft3/ft3 0

Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C[1]
0 100

Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C[1]
45 0

TIME_1900 - Time Marked every 60.00 (s)

ICV - Integrated Cement Volume every 100.00 (ft3)

TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)

ICV - Integrated Cement Volume every 10.00 (ft3)

IHV - Integrated Hole Volume every 100.00 (ft3)

IHV - Integrated Hole Volume every 10.00 (ft3)

Description: RST SIGMA Answer Format: Log (RST SIGMA Answer) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-May-2018 11:31:43

Channel Processing Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	Depth Zoned	in

BSAL	Borehole Salinity	Borehole	0	ppm
BSALOPT	Borehole Salinity Option	RST-C	Unknown	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	

OneDepth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	14.75	2300	2523
BS	8.75	2523	6258

All depth are actual.

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.75	in
BSAL	Borehole Salinity	Borehole	0	ppm
BSALOPT	Borehole Salinity Option	RST-C	Unknown	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	

Tool Control Parameters

One: Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	0 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

Two: Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	12 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

Two

RST Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2018	8.0.95333.3100
Application Patch	Wireline_NPD-PNX-2018CMZ_8.0.100887

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Two	Log[11]:Up	Up	8236.25 ft	8765.36 ft	21-May-2018 09:14:41	21-May-2018 09:36:06	ON	9.90 ft	No

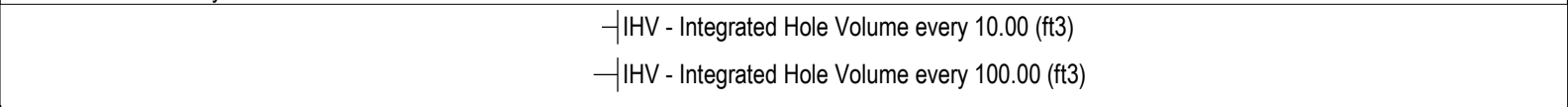
All depths are referenced to toolstring zero

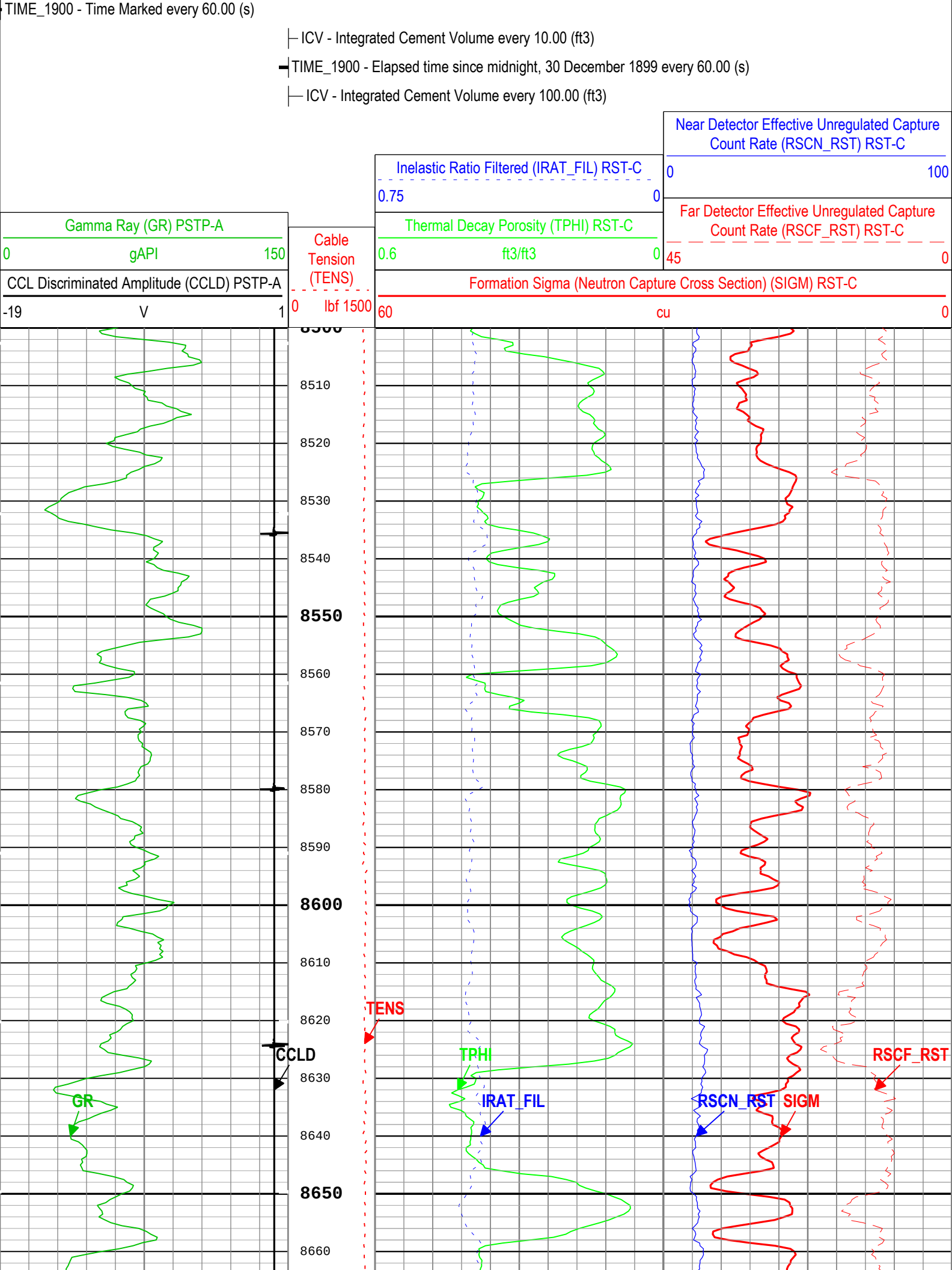
Log

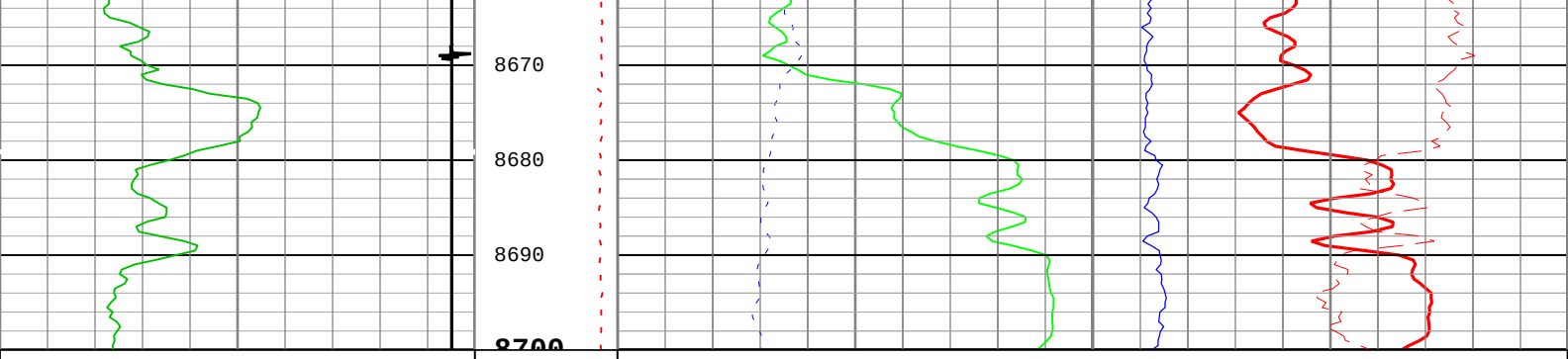
Company:Caerus Operating LLC Well:Puckett 12D-26-697

Two: Log[11]:Up:S016

Description: RST SIGMA Answer Format: Log (RST SIGMA Answer_1) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 21-May-2018 11:31:50




TIME_1900 - Time Marked every 60.00 (s)
ICV - Integrated Cement Volume every 10.00 (ft3)
TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
ICV - Integrated Cement Volume every 100.00 (ft3)
Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
0
100
Inelastic Ratio Filtered (IRAT_FIL) RST-C
0.75
0
Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
45
0
Gamma Ray (GR) PSTP-A
0
gAPI
150
Thermal Decay Porosity (TPHI) RST-C
0.6
ft3/ft3
0
Cable Tension (TENS)
0
lbf
1500
CCL Discriminated Amplitude (CCLD) PSTP-A
-19
V
1
Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C
60
cu
0
8510
8520
8530
8540
8550
8560
8570
8580
8590
8600
8610
8620
8630
8640
8650
8660
TENS
CCLD
GR
TPHI
IRAT_FIL
RSCN_RST
SIGM
RSCF_RST



Gamma Ray (GR) PSTP-A
0 gAPI 150

CCL Discriminated Amplitude (CCLD) PSTP-A
-19 V 1

Cable Tension (TENS)
0 lbf 1500

Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C
60 cu 0

Inelastic Ratio Filtered (IRAT_FIL) RST-C
0.75 0

Thermal Decay Porosity (TPHI) RST-C
0.6 ft3/ft3 0

Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C
0 100

Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C
45 0

ICV - Integrated Cement Volume every 100.00 (ft3)
TIME_1900 - Elapsed time since midnight, 30 December 1899 every 60.00 (s)
ICV - Integrated Cement Volume every 10.00 (ft3)
TIME_1900 - Time Marked every 60.00 (s)
IHV - Integrated Hole Volume every 100.00 (ft3)
IHV - Integrated Hole Volume every 10.00 (ft3)

Description: RST SIGMA Answer Format: Log (RST SIGMA Answer_1) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 21-May-2018 11:31:50

Channel Processing Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Cased	
BS	Bit Size	WLSESSION	8.75	in
BSAL	Borehole Salinity	Borehole	0	ppm
BSALOPT	Borehole Salinity Option	RST-C	Unknown	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	

Tool Control Parameters

Two: Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	150	ft/h
PCCG	PSP Downhole CCL Gain	PSTP-A	12 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

Well:	Puckett 12D-26-697
Field:	Grand Valley
County:	Garfield
State:	Colorado

Cement Bond Log

RST Sigma Log

Gamma Ray - Collar Locator Log