Schlumberger

Company: Caerus Operating LLC

Well: NPR 13B-10 596

Field: NPR

County: Garfield State: Colorado

Cement Bond Log

RST Sigma Log

Gamma Ray - Collar Locator Log

Location:	K10-596	Elev.:	K.B.	6733.00 ft
			G.L.	6709.00 ft
			D.F.	6733.00 ft
	Permanent Datum:	Ground Level	Elev.:	6709.00 f
	Log Measured From:	Kelly Bushing	24.00 ft	above Perm.Datum
	Drilling Measured From:	Kelly Bushing		

API Serial No.	Section:	Township:	Range:
05045237660000	10	5S	96W

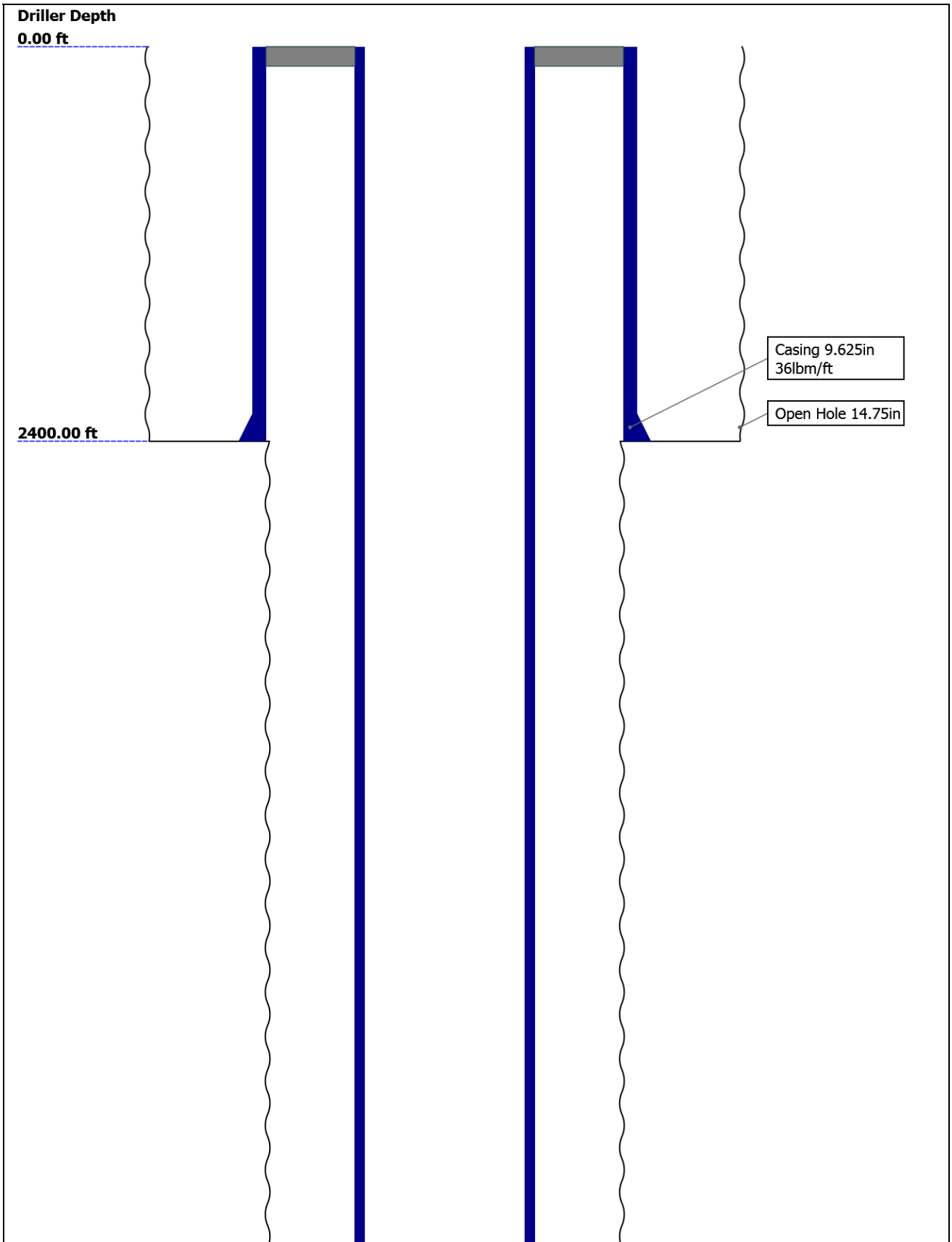
Logging Date	06-Sep-2018		
Run Number	ONE		
Depth Driller	9547.00 ft		
Schlumberger Depth	9484.50 ft		
Bottom Log Interval	9484.50 ft		
Top Log Interval	2300.00 ft		
Casing Fluid Type	Water		
Salinity			
Density	8.5 lbm/gal		
Fluid Level	8.00 ft		
BIT/CASING/TUBING STRING			
Bit Size	8.75 in		
From	2400.00 ft		
To	9547.00 ft		
Casing/Tubing Size	4.5 in		
Weight	11.6 lbm/ft		
Grade	P110		
From	0.00 ft		
To	9547.00 ft		
Max Recorded Temperatures	272.02 degF		
Logger on Bottom Time	06-Sep-2018	10:40:00	
Unit Number Location:	3108	Evanston, WY	
Recorded By	Justin Ray		
Witnessed By	Trent Ray		

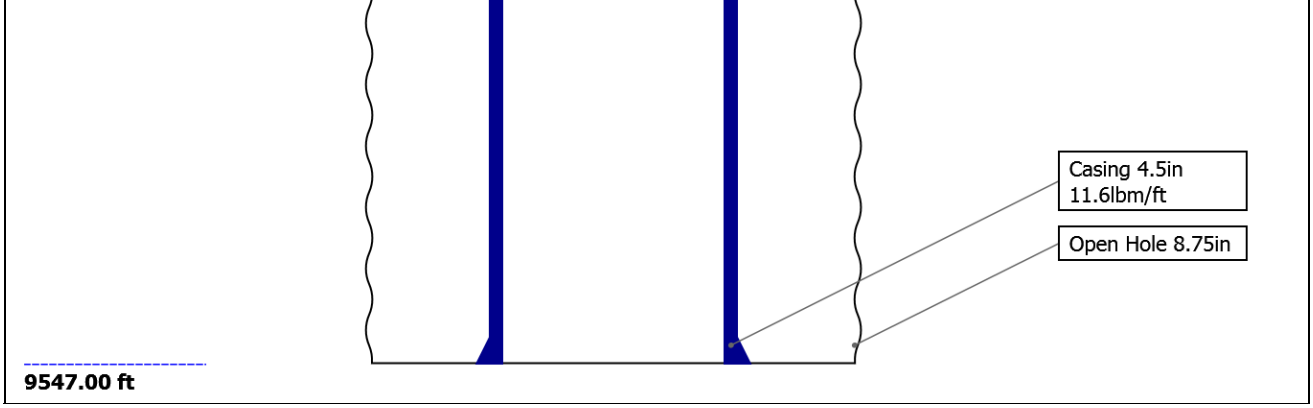
County: Garfield
Field: NPR
Location: K10-596
Well: NPR 13B-10 596
Company: Caerus Operating LLC

Disclaimer

Contents

Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2400				
Top Logger (ft)	0	2400				
Bottom Driller (ft)	2400	9547				
Bottom Logger (ft)	2400	9547				
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)	2400	9547				
Bottom Logger (ft)	2400	9547				

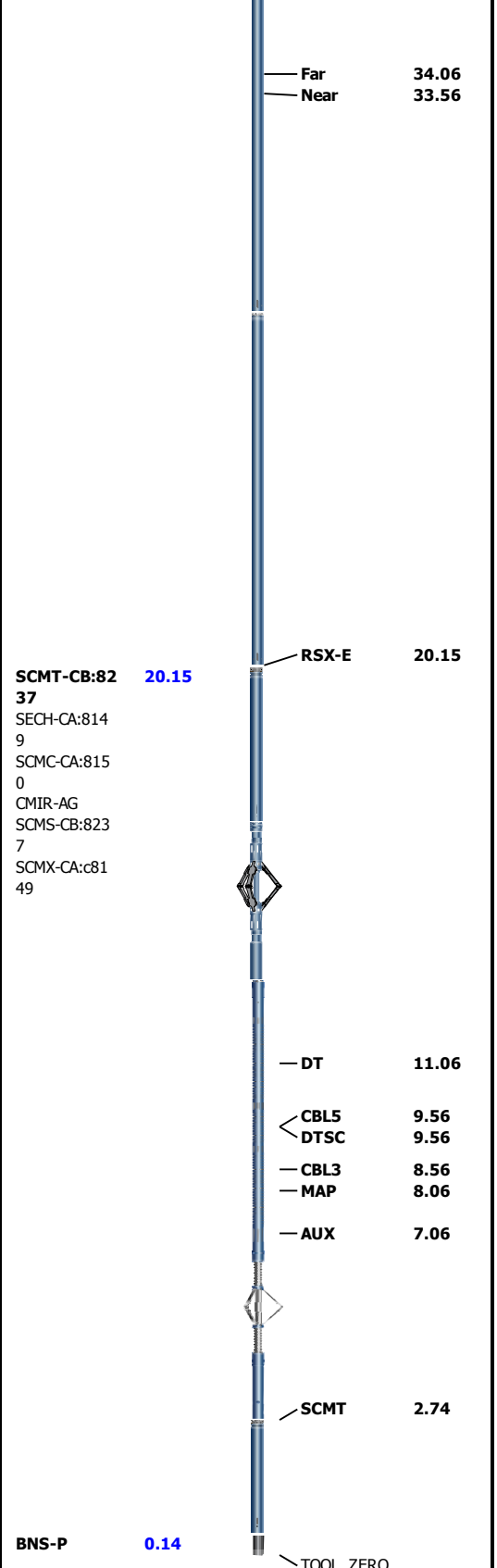
Remarks and Equipment Summary

ONE: Toolstring

Equip name	Length	MP name	Offset
PEH-E	**53.4**		
AH-38	**51.72**		
PSTP-A:378	**51.44**		
1		**GR**	**47.74**
PSC-A:3781		**PSTC**	**47.44**
PSTC-A:3781		**PSTC Tool String Bottom**	**0.00**
PBMS-A:3781			
Sapphire 10kPSI		**Temperature**	**44.65**
		Sapphire Pressure	**44.54**
		CCL	**43.92**
		PBMS	**43.17**
RST-C:296	**43.17**		
RSCH-A:530			
RSC-E:544			
RSS-A:222			
MNTR-F:1356-50031			
RSXH-A:288			
RSX-E:296			
		RSC-E	**36.82**

ONE: Remarks

- Tool string ran as per tool sketch
- RST Mode: SIGMA
- Matrix: Sandstone
- Max Recorded Temp: 272.02 Deg F
- Schlumberger Depth: 9484.5 FT
- Thank you for choosing Schlumberger



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		
Depth Measuring Device			
Type	IDW-B		
Serial Number	6693		
Calibration Date	02-Feb-2018		

Calibrator Serial Number	JA		
Calibration Cable Type	IDWC-C-57		
Wheel Correction 1	-4		
Wheel Correction 2	-4		

Tension Device

Type	CMTD-B/A		
Serial Number	1127		
Calibration Date	25-Jul-2018		
Calibrator Serial Number	112544		
Number of Calibration Points	10		
Calibration Root Mean Square Error	1320		
Calibration Peak Error	25		

Logging Cable

Type	1-25ZA-XXS		
Serial Number	F112140		
Length	17500.00 ft		
Conveyance Type	Wireline		
Rig Type	MAST		

ONE:Depth Control Parameters		Depth Control Remarks
Log Sequence	First Log In the Well	All Schlumberger depth control procedures followed
Rig Up Length At Surface		IDW used as primary depth control device
Rig Up Length At Bottom		Z-Chart used as secondary depth control device
Rig Up Length Correction		Log correlated to down log
Stretch Correction	4.04 ft	
Tool Zero Check At Surface	24.00 ft	

Main Pass

CBL-VDL Main Pass

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[6]:Up	Up	4351.54 ft	9503.45 ft	06-Sep-2018 10:20:59 AM	06-Sep-2018 1:17:56 PM	ON	5.64 ft	No
ONE	Log[8]:Up	Up	2211.46 ft	4706.18 ft	06-Sep-2018 1:39:31 PM	06-Sep-2018 3:00:34 PM	ON	5.45 ft	No

All depths are referenced to toolstring zero

Log

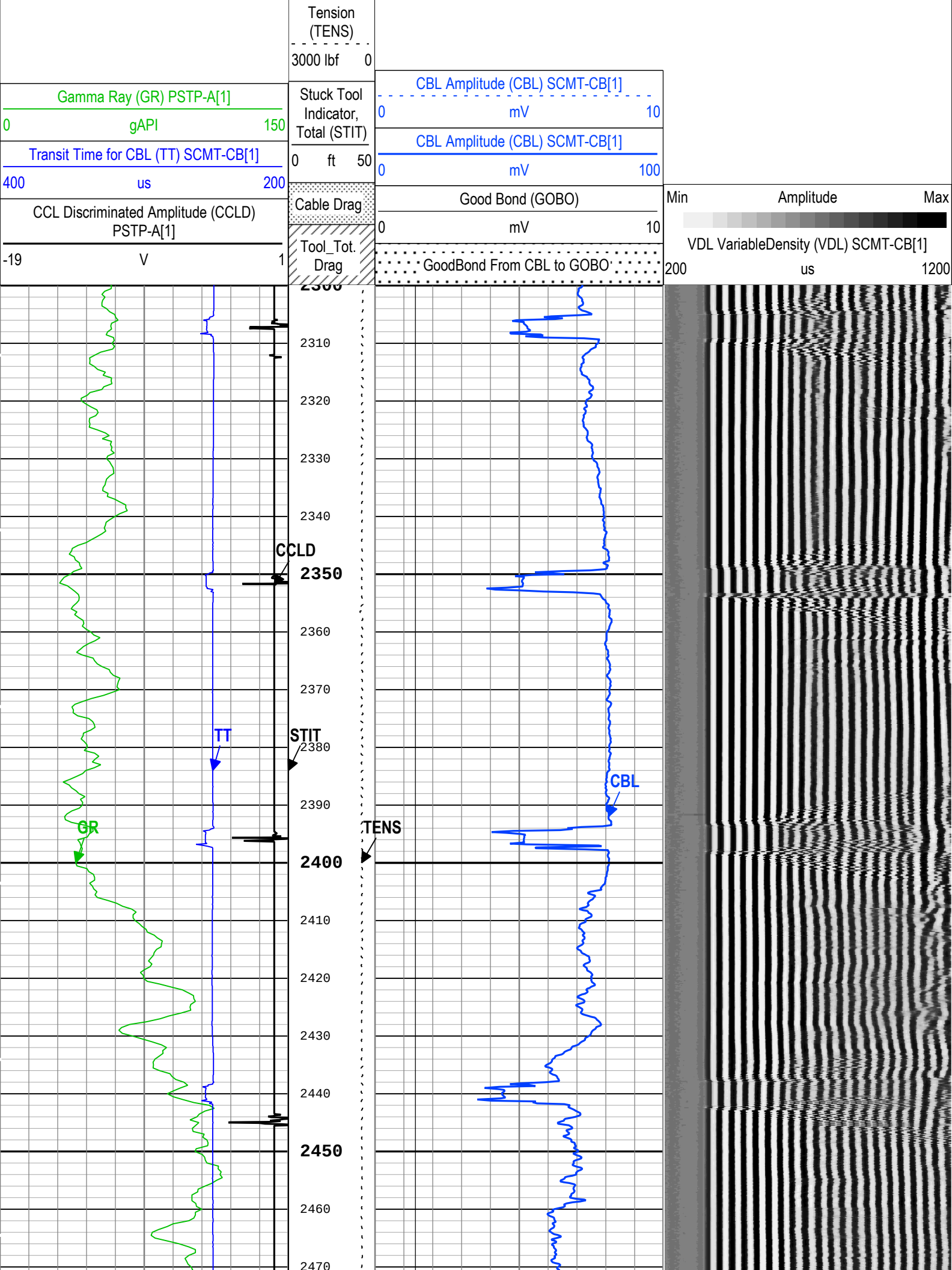
Company:Caerus Operating LLC Well:NPR 13B-10 596 Main Pass:S008

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: 06-Sep-2018 15:25:15

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

TIME_1900 - Time Marked every 60.00 (s)

Cable


Tension (TENS)
3000 lbf 0
Gamma Ray (GR) PSTP-A[1]
0 gAPI 150
Transit Time for CBL (TT) SCMT-CB[1]
400 us 200
CCL Discriminated Amplitude (CCLD) PSTP-A[1]
-19 V 1
Stuck Tool Indicator, Total (STIT)
0 ft 50
Cable Drag
Tool_Tot. Drag
CBL Amplitude (CBL) SCMT-CB[1]
0 mV 10
CBL Amplitude (CBL) SCMT-CB[1]
0 mV 100
Good Bond (GOBO)
0 mV 10
GoodBond From CBL to GOBO
Min Amplitude Max
VDL VariableDensity (VDL) SCMT-CB[1]
200 us 1200
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2310
2320
2330
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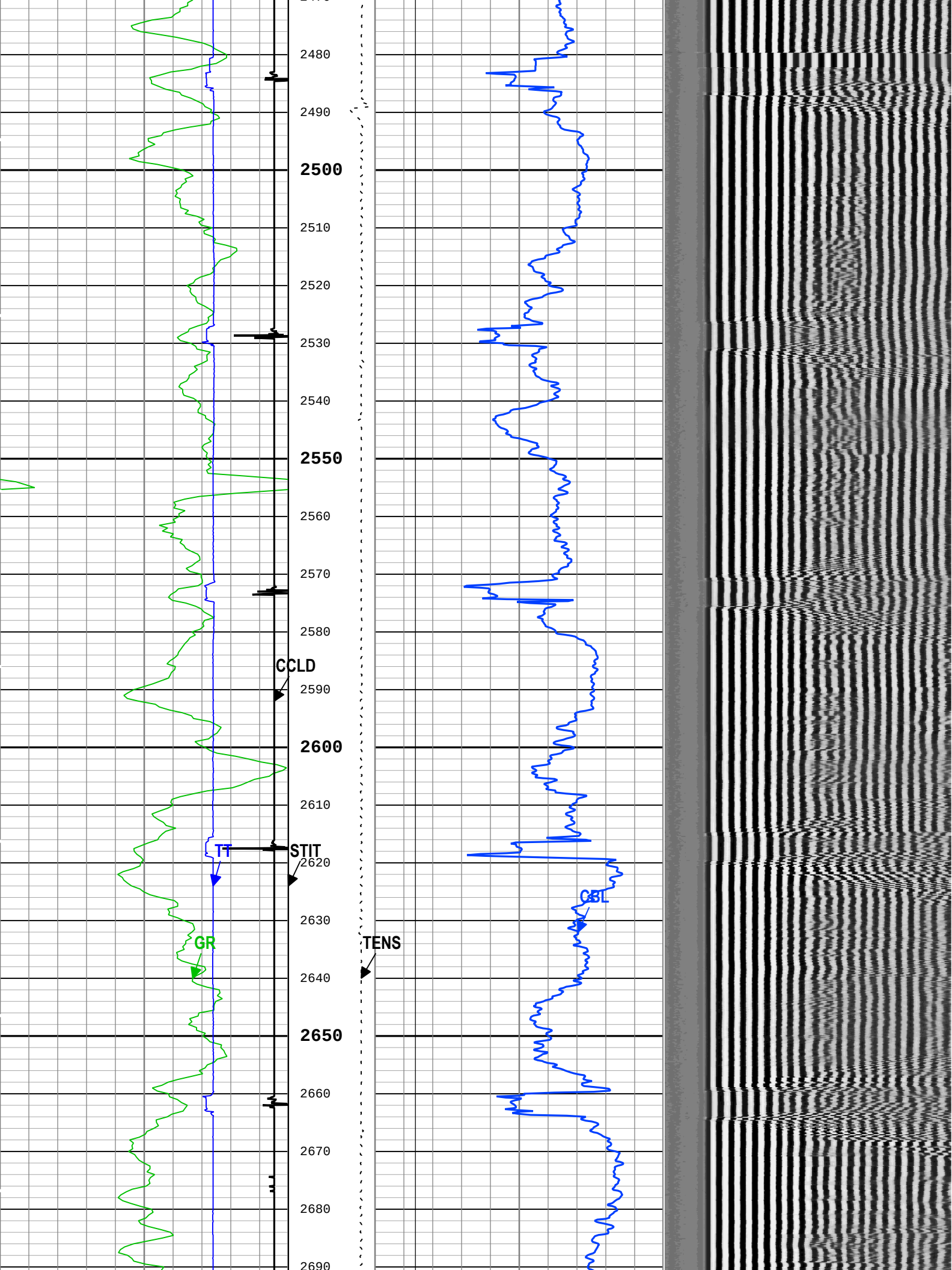
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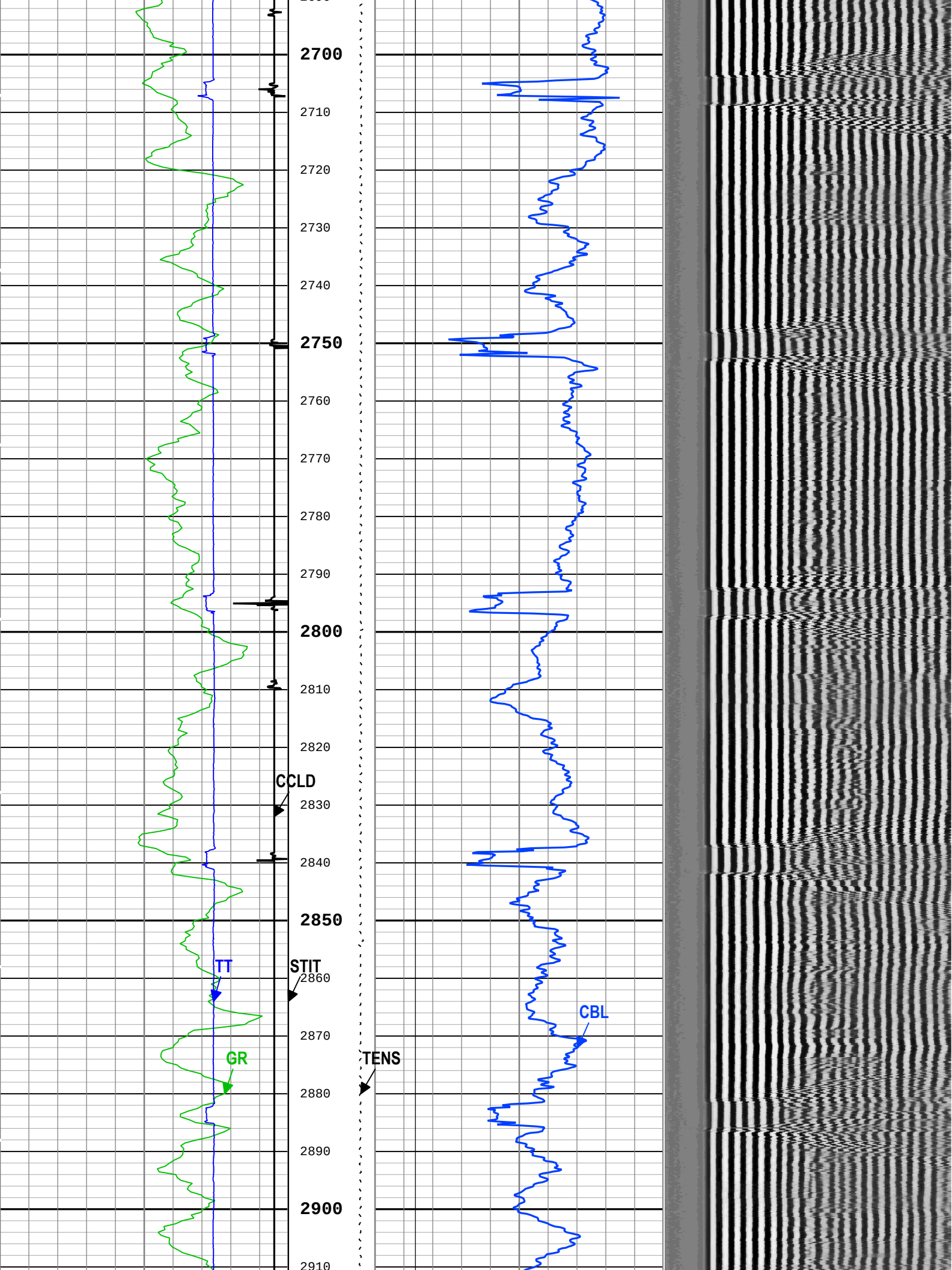
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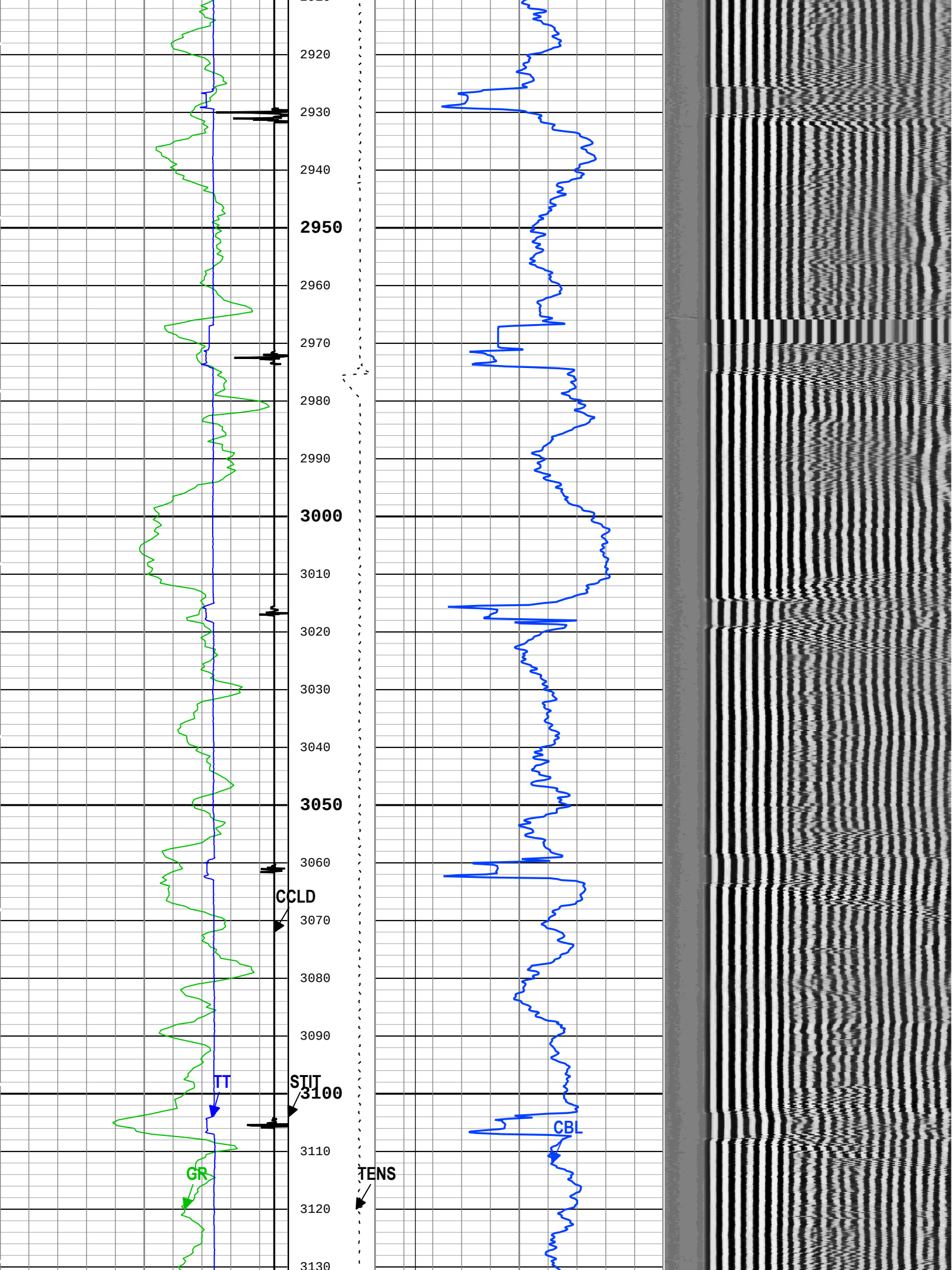
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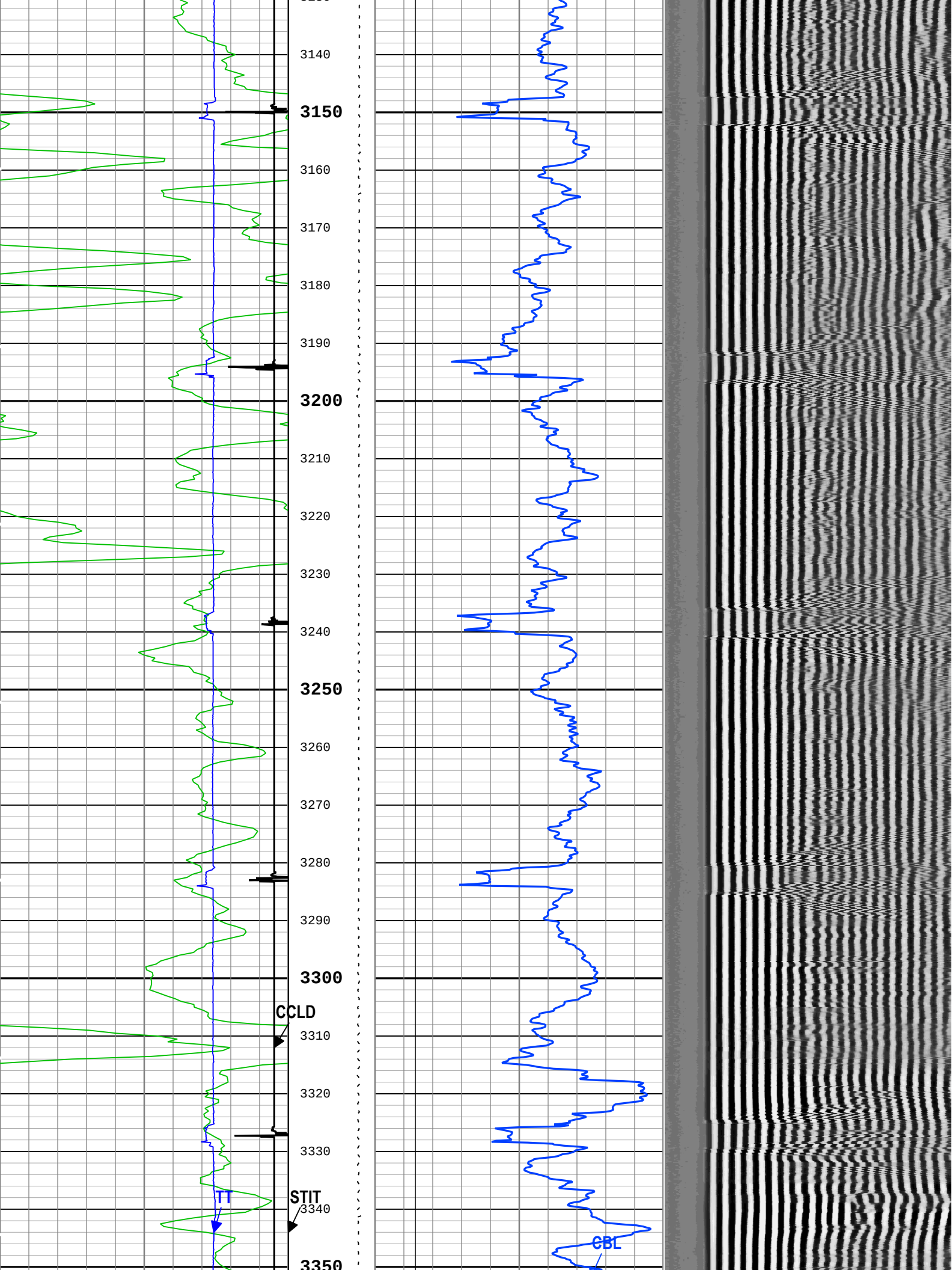
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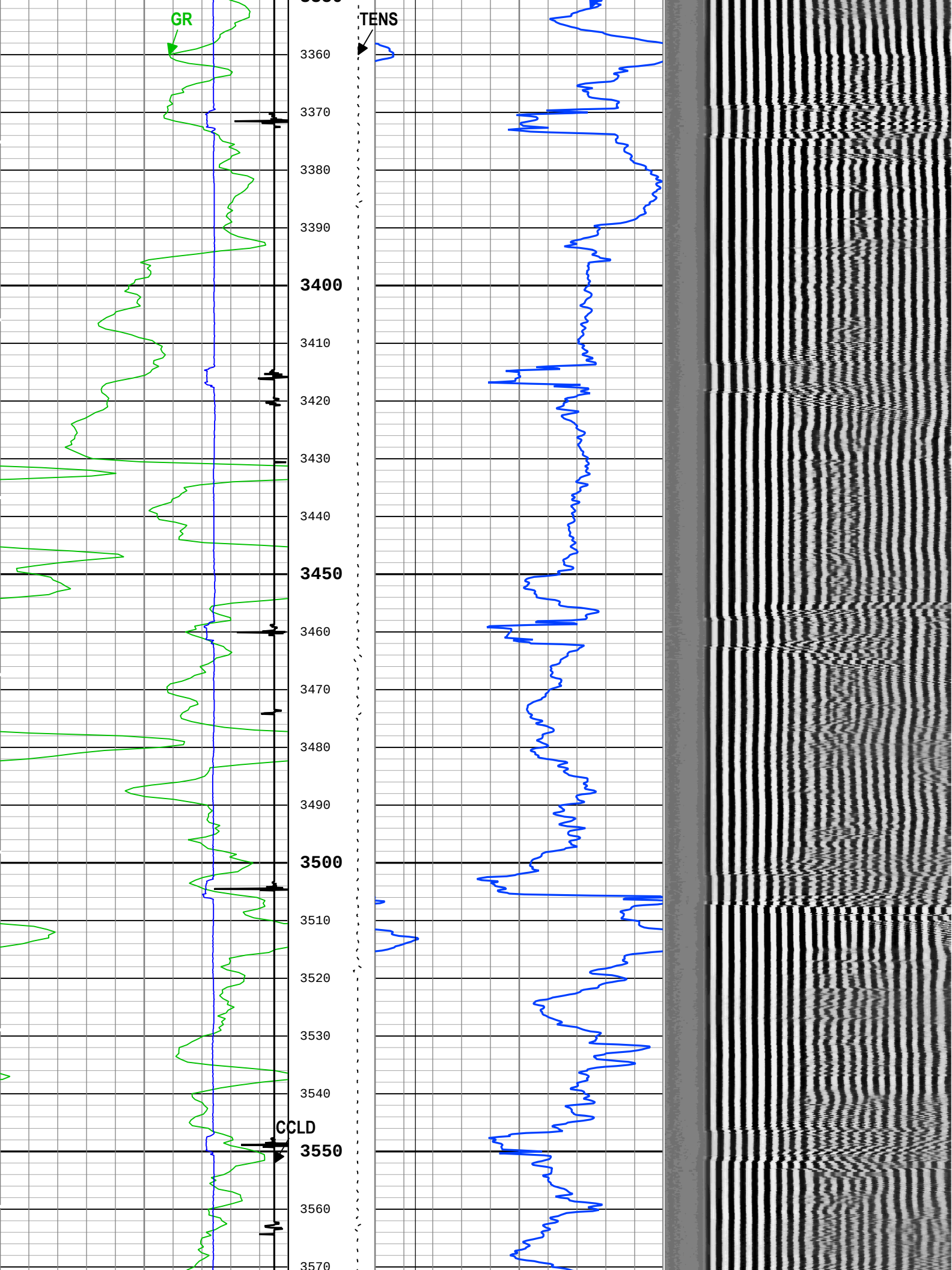
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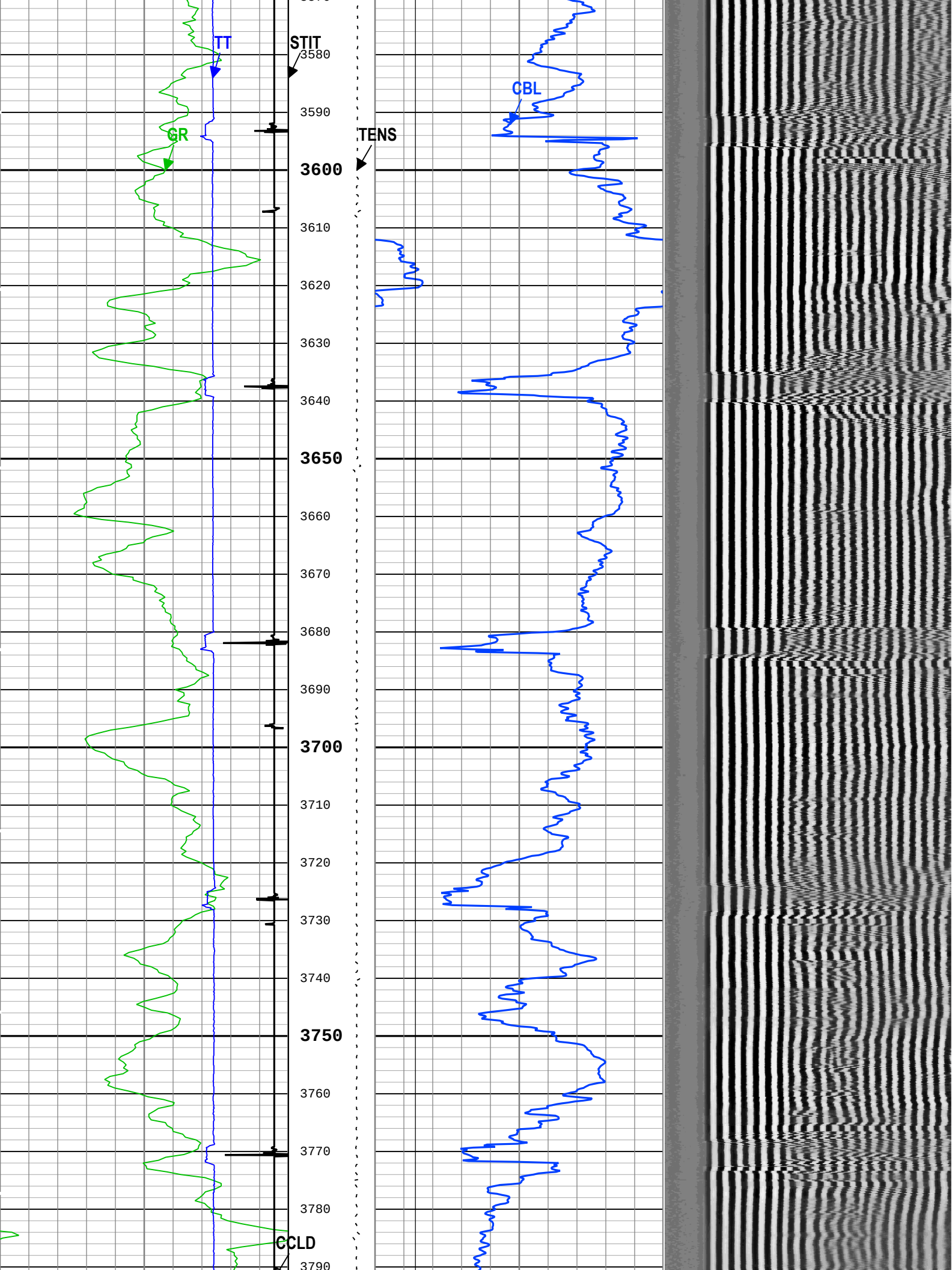
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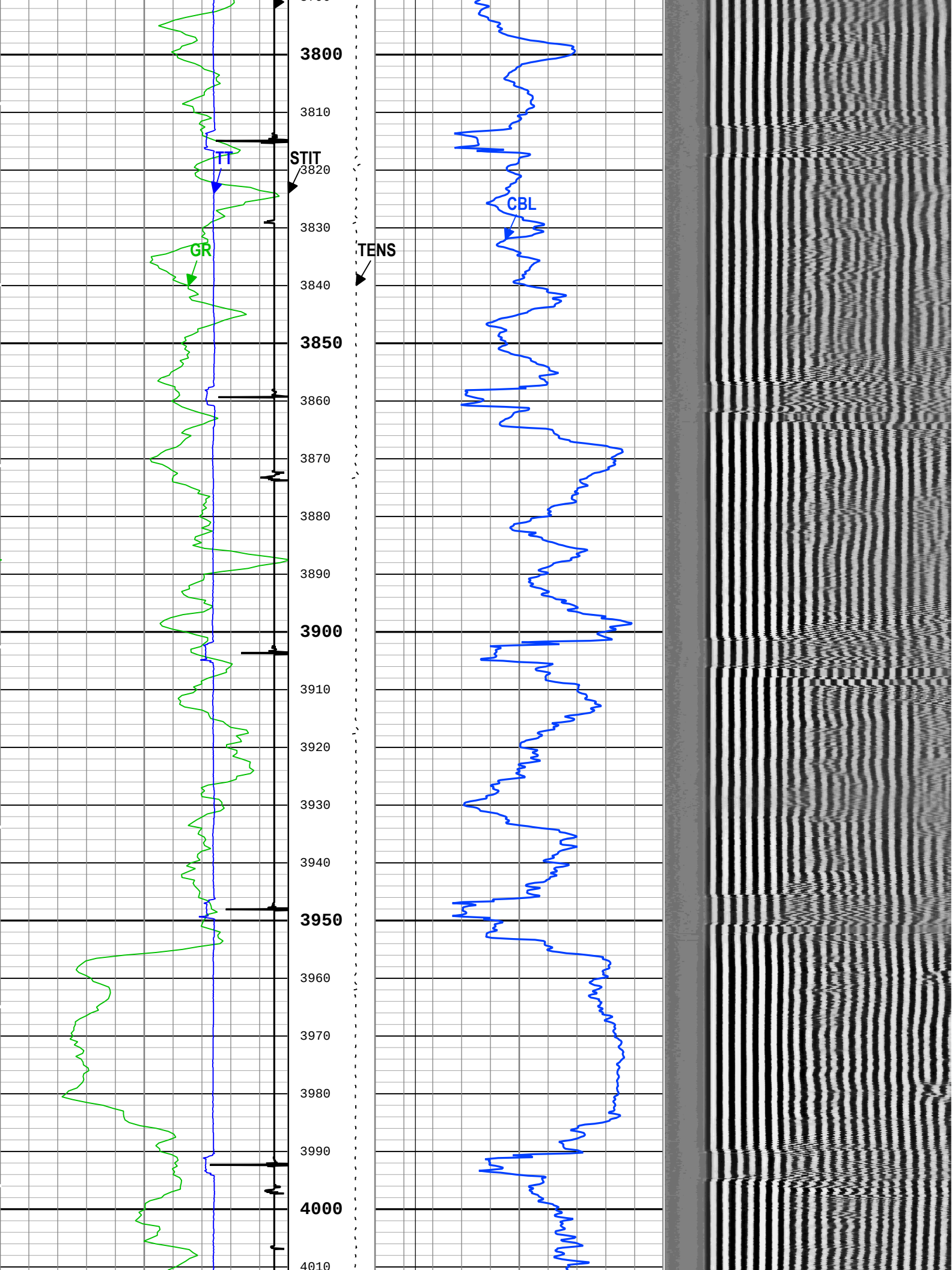
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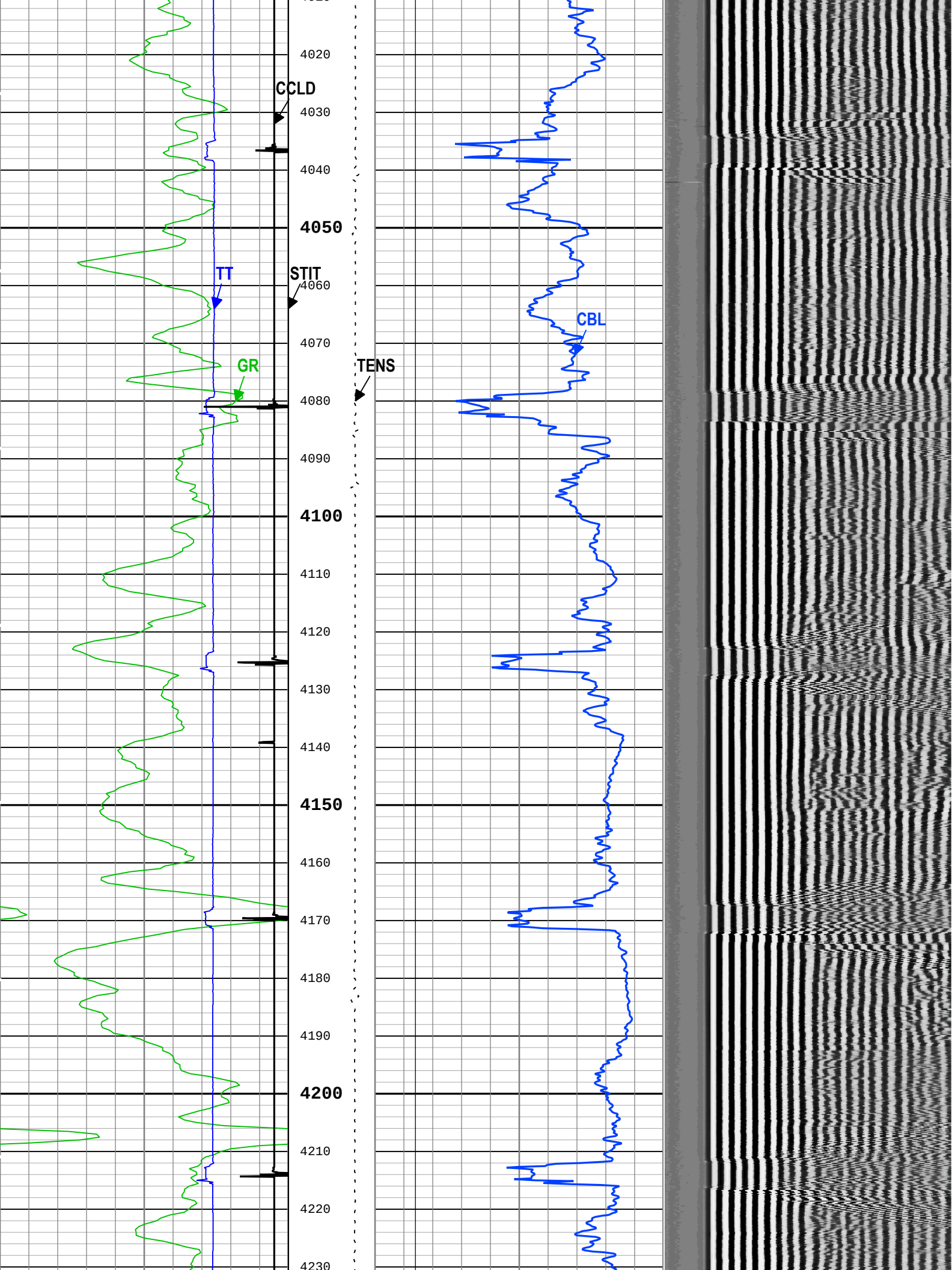
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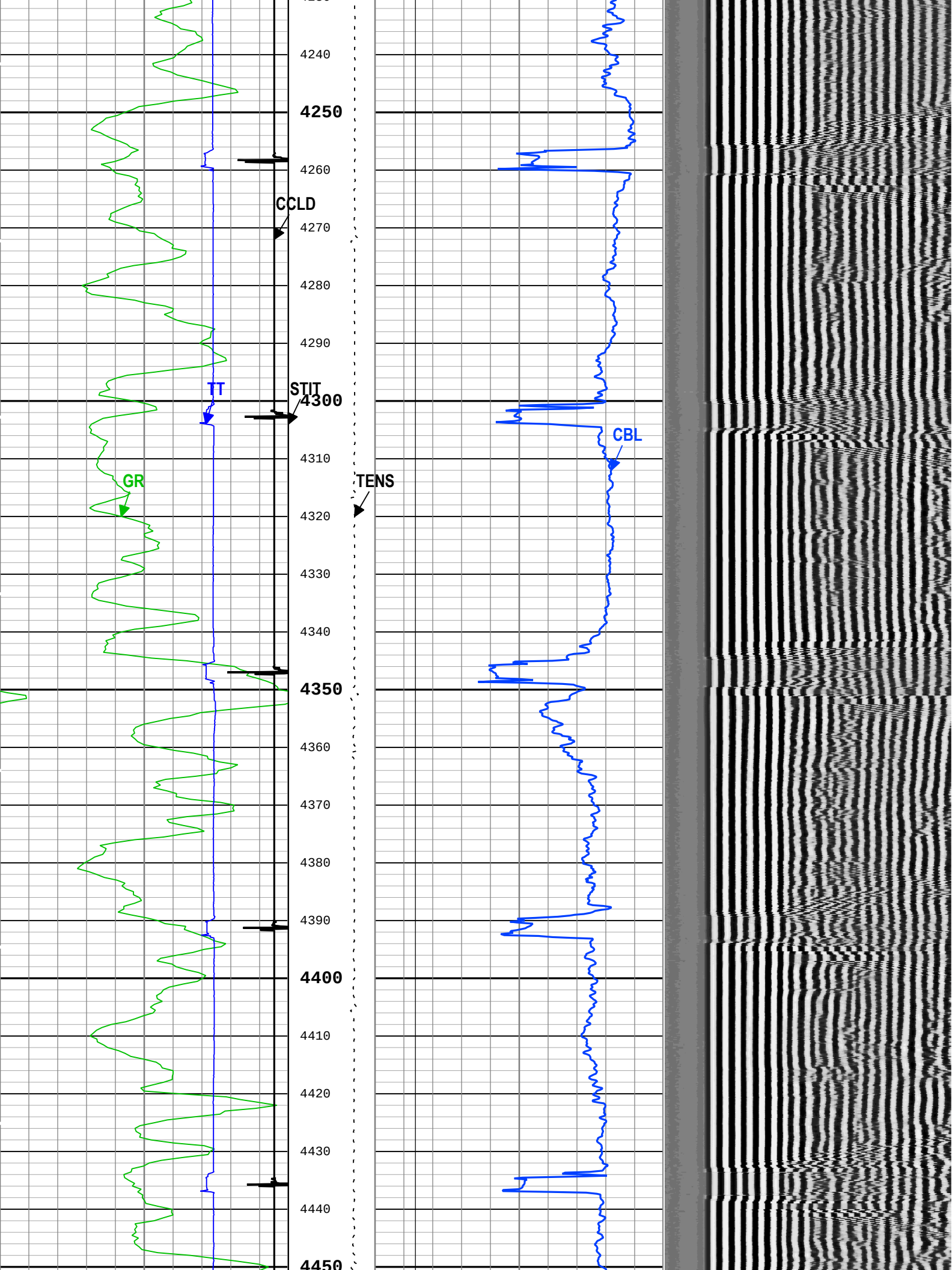
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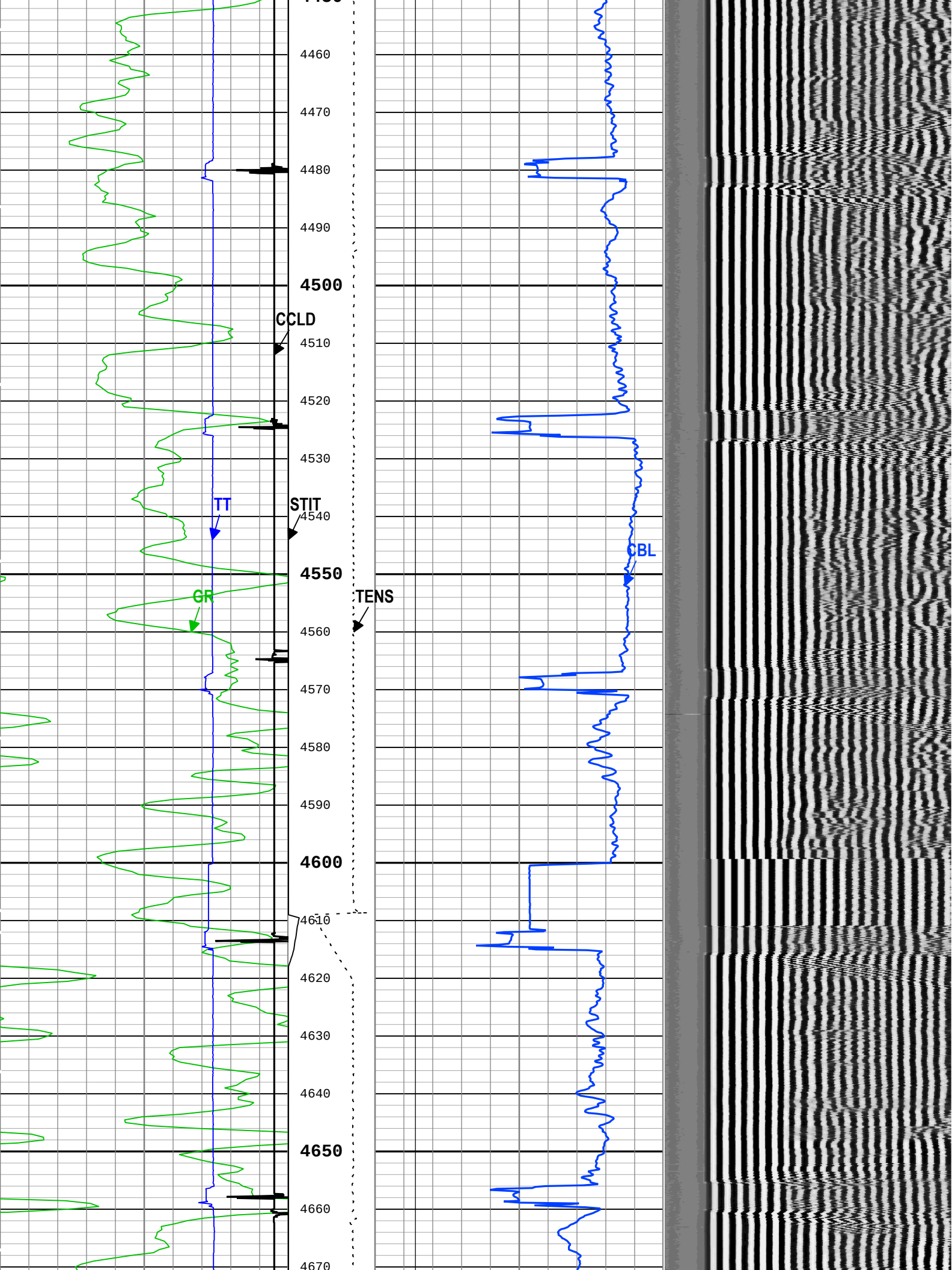
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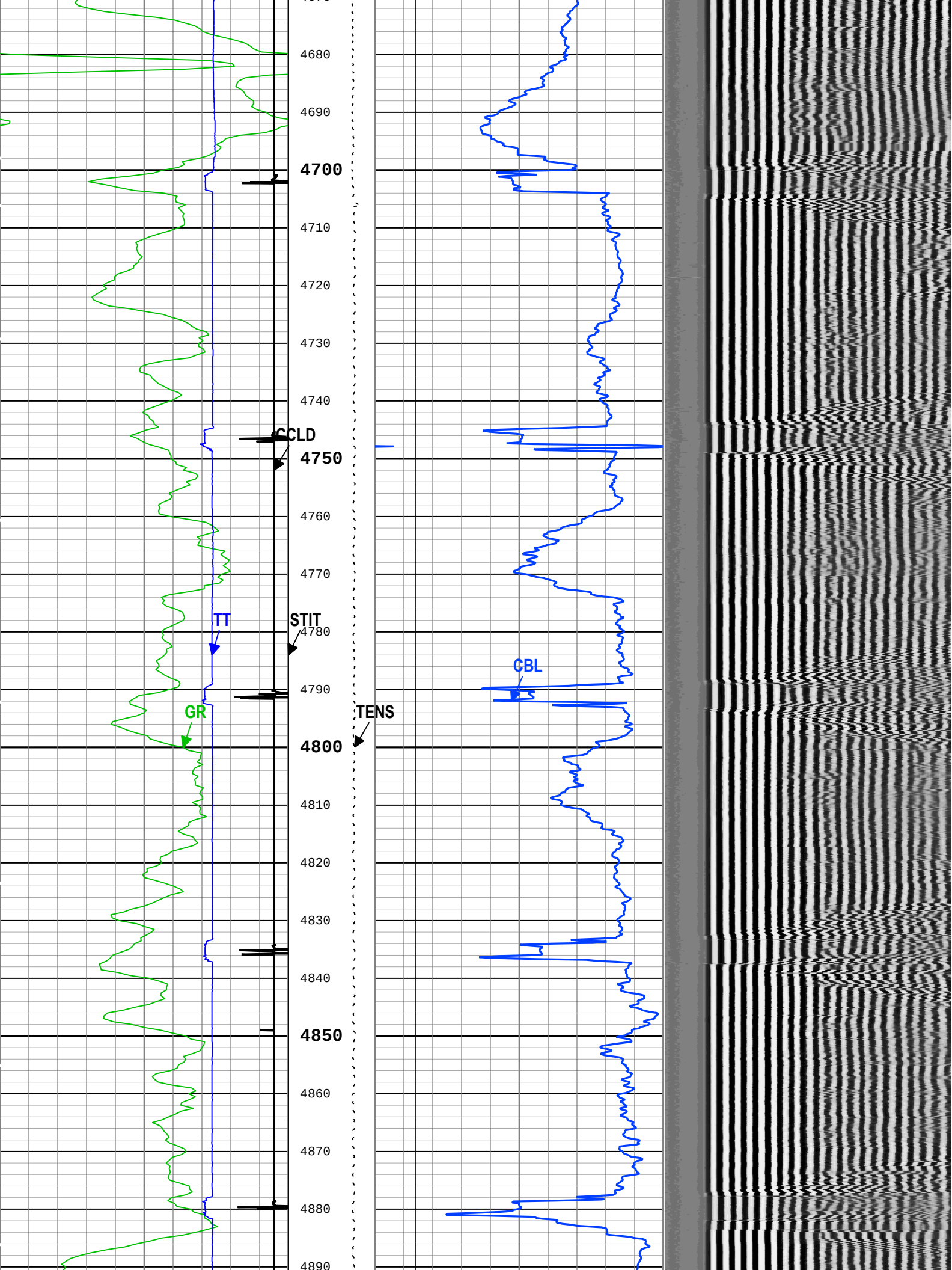
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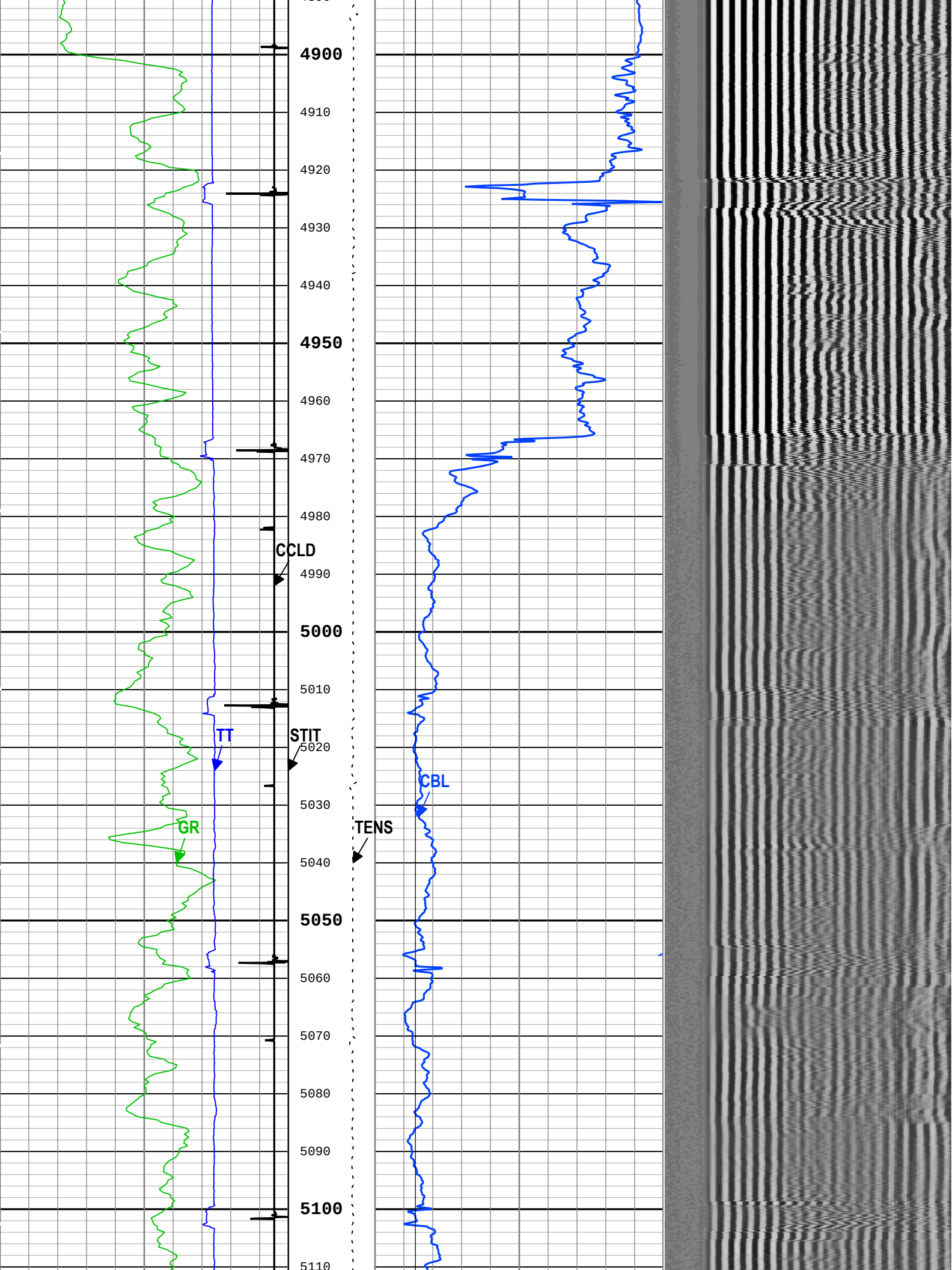
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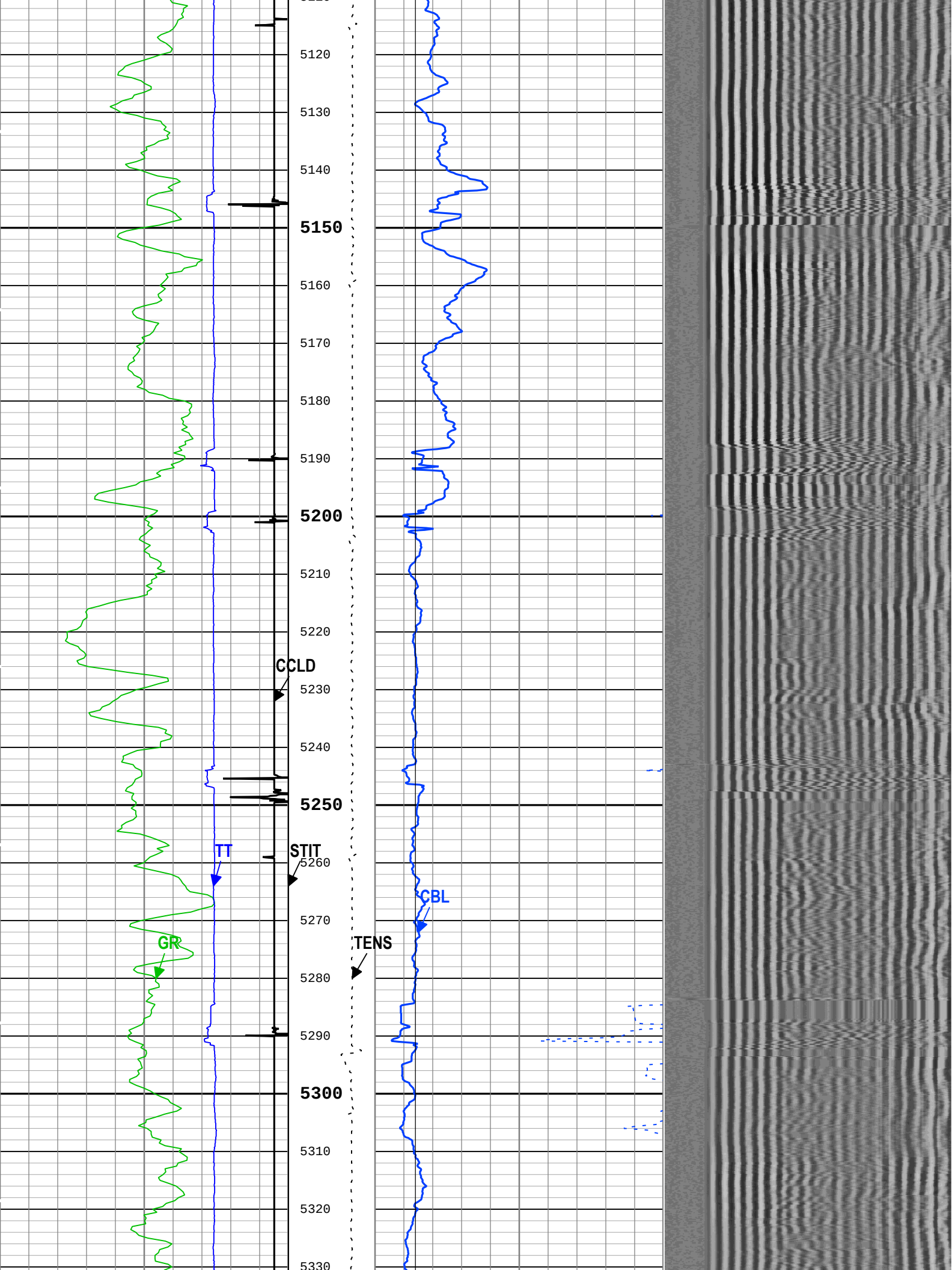
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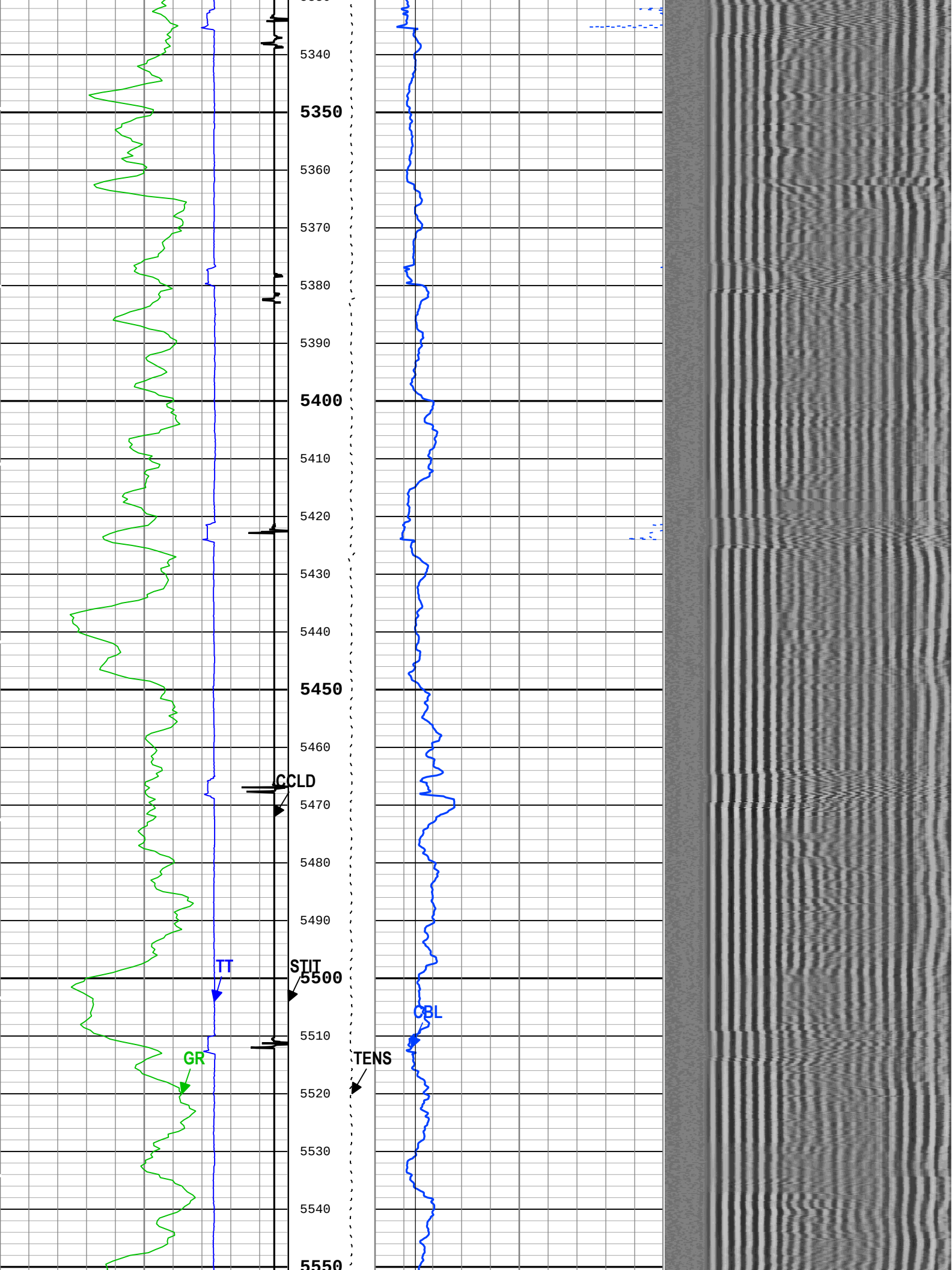
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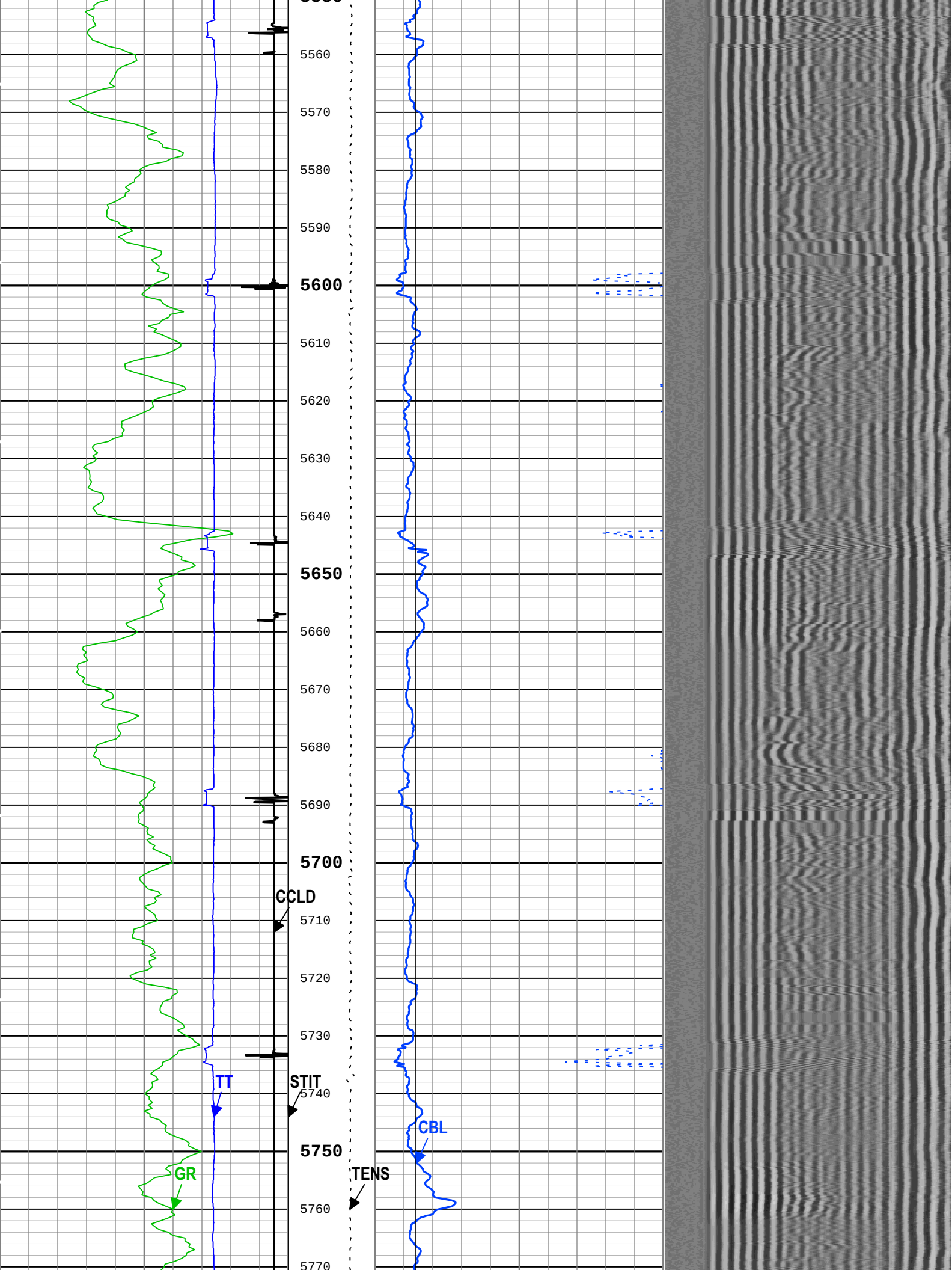
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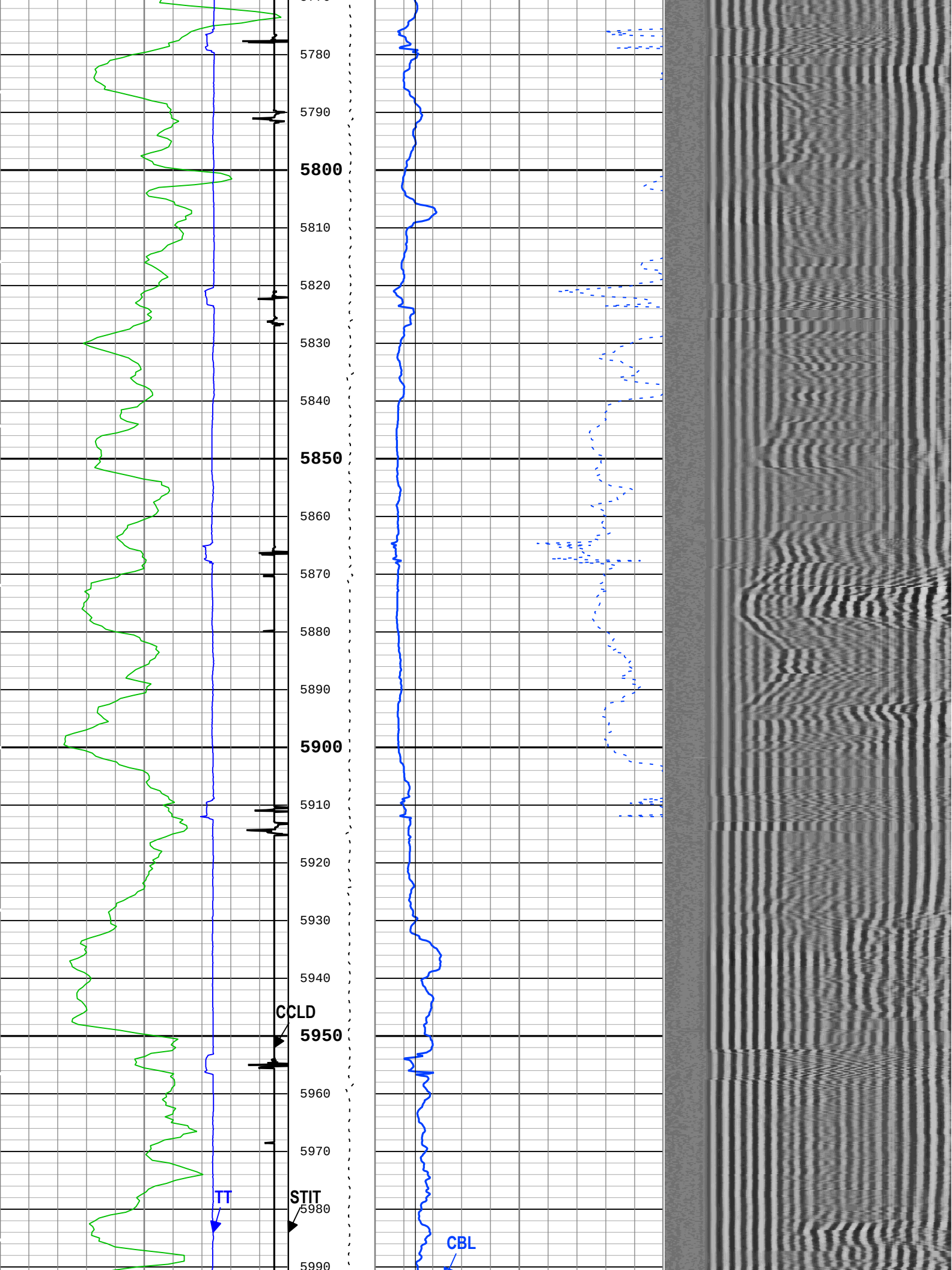
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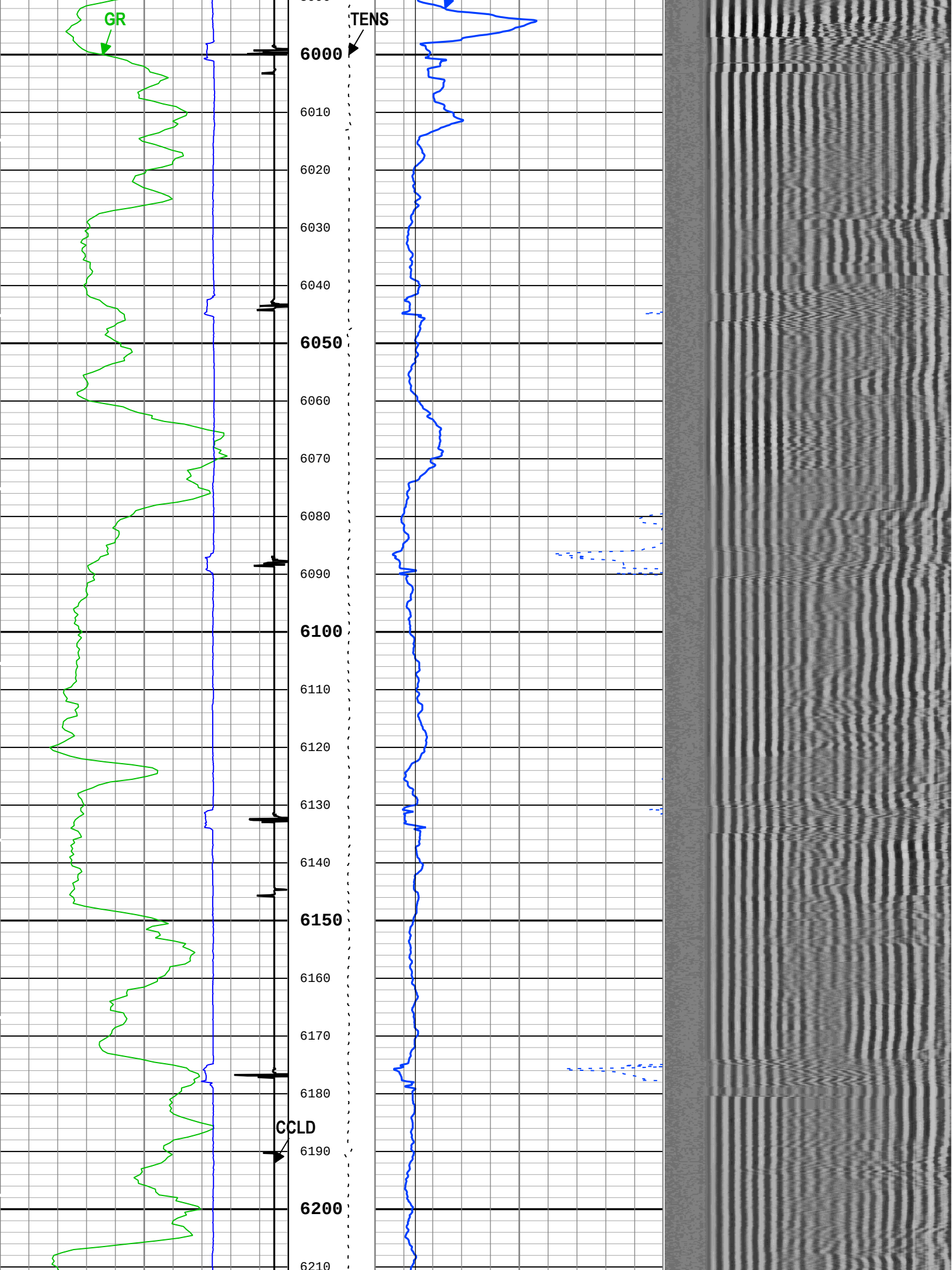
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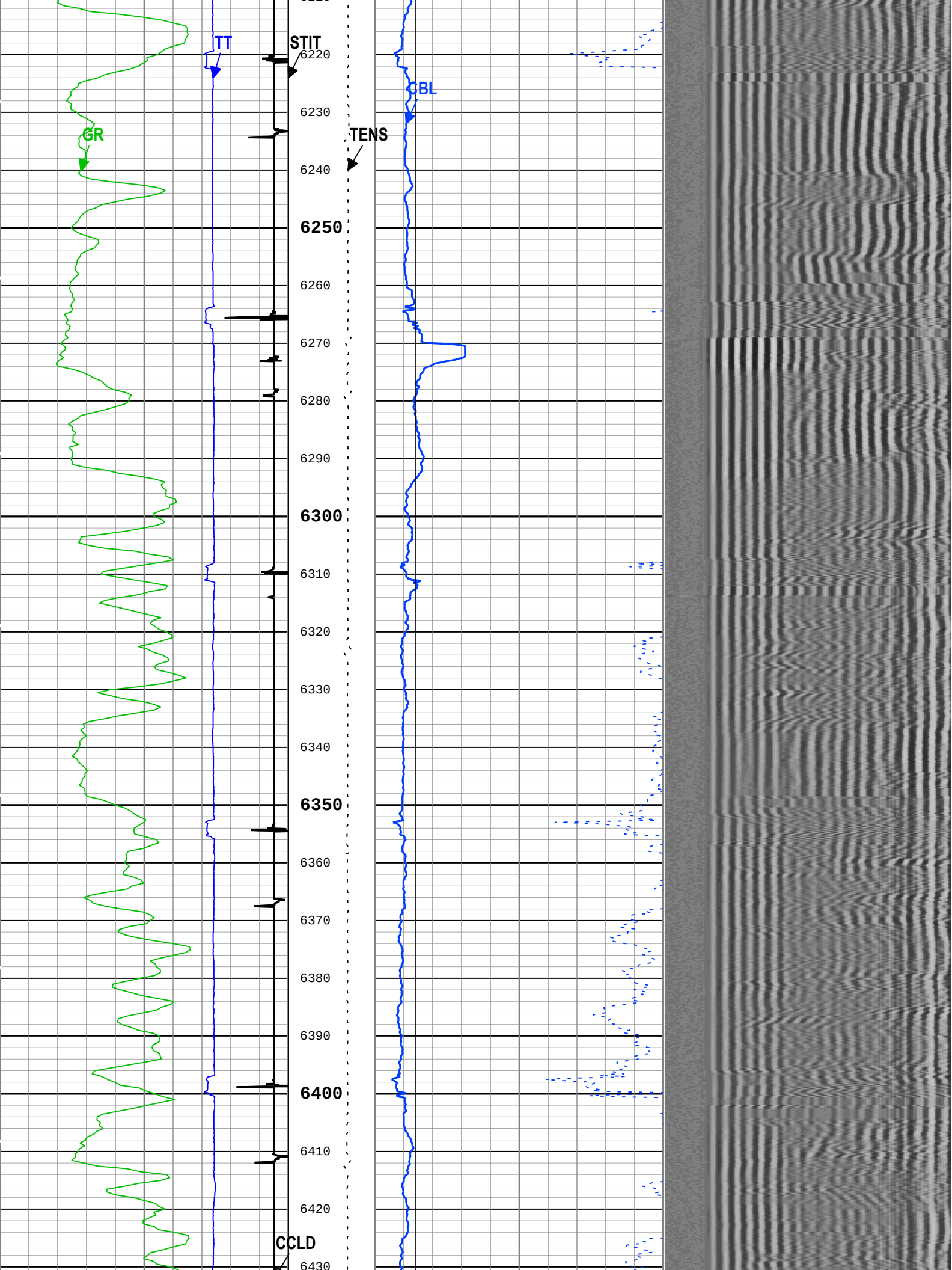
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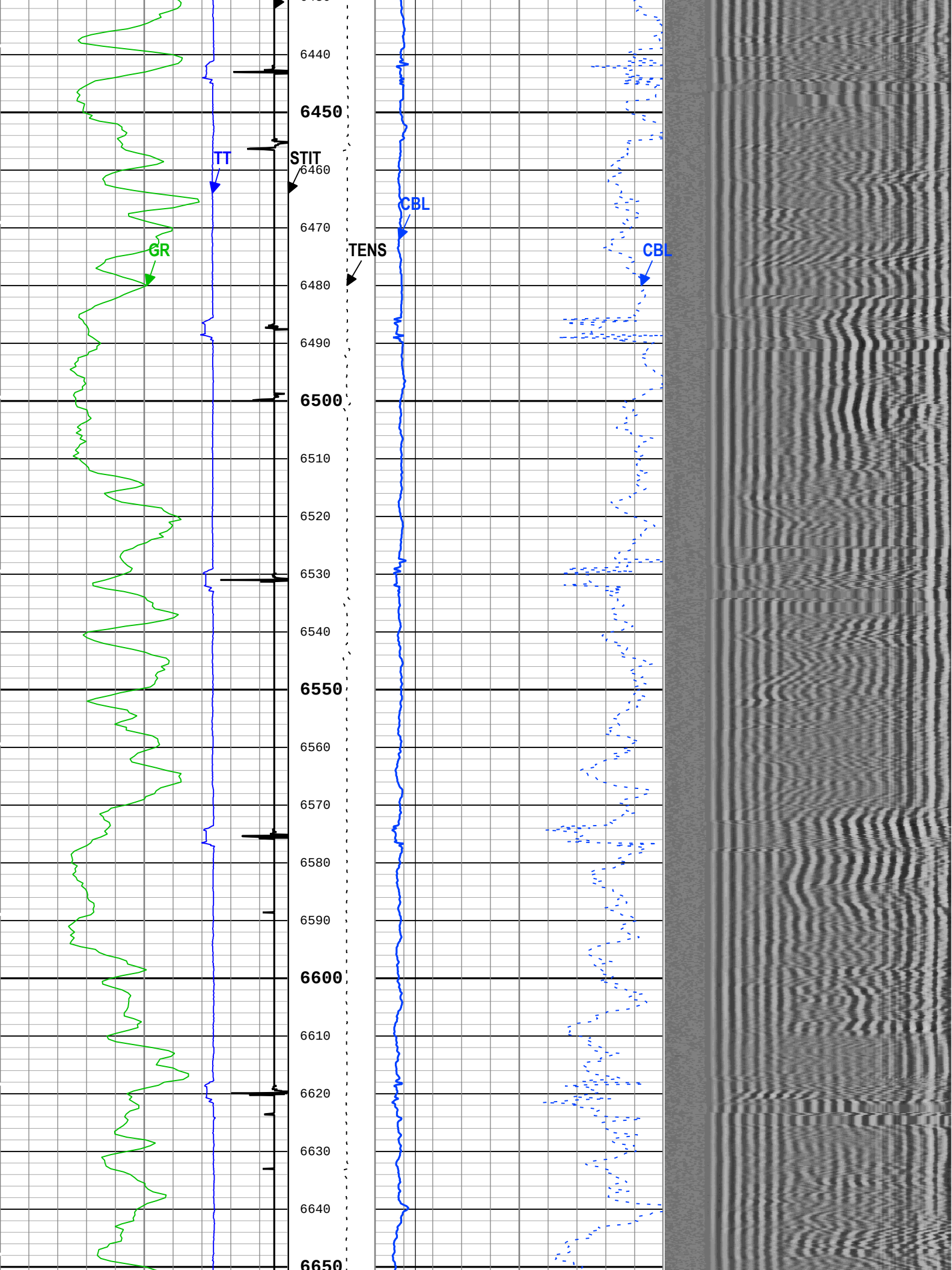
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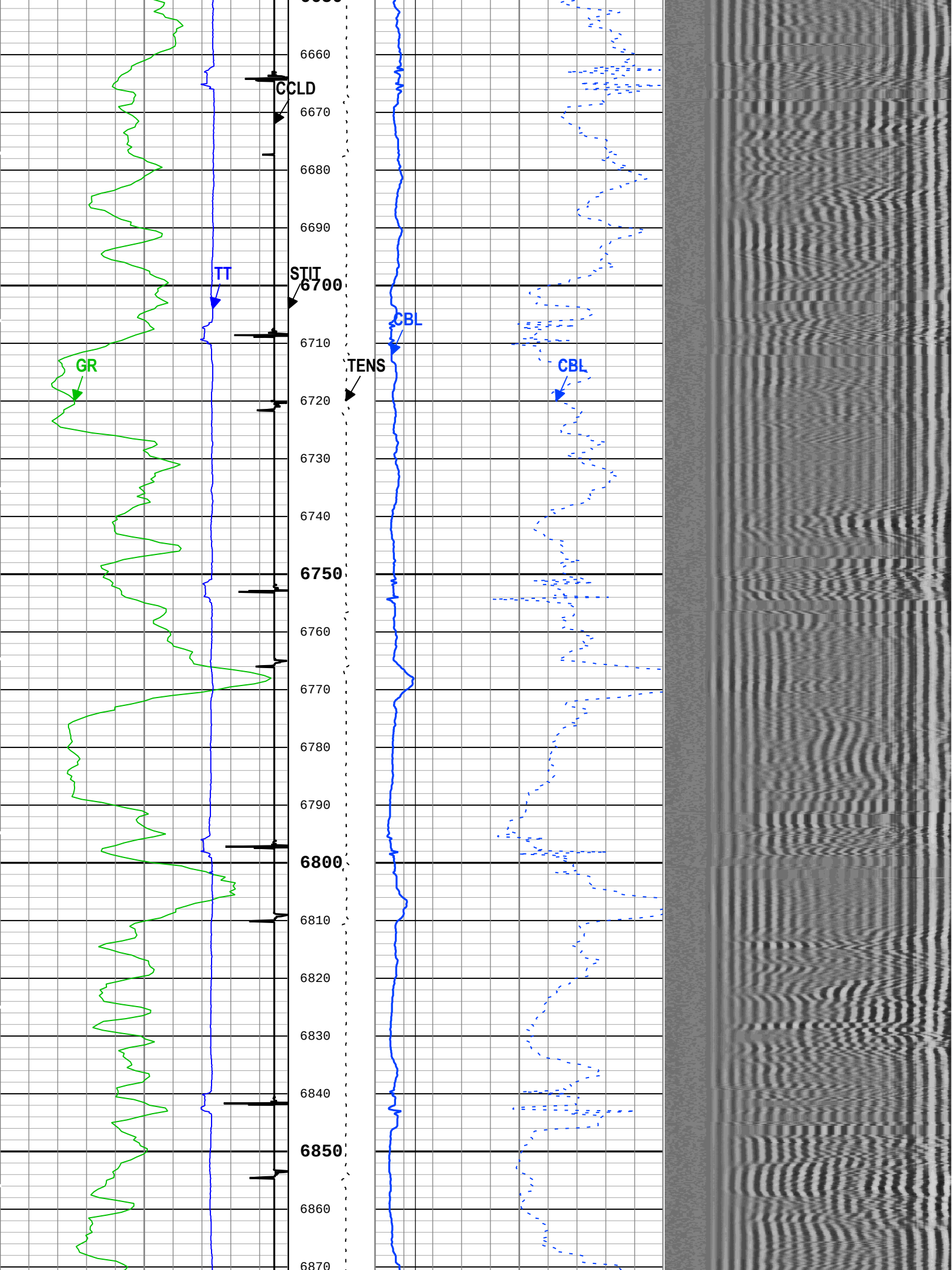
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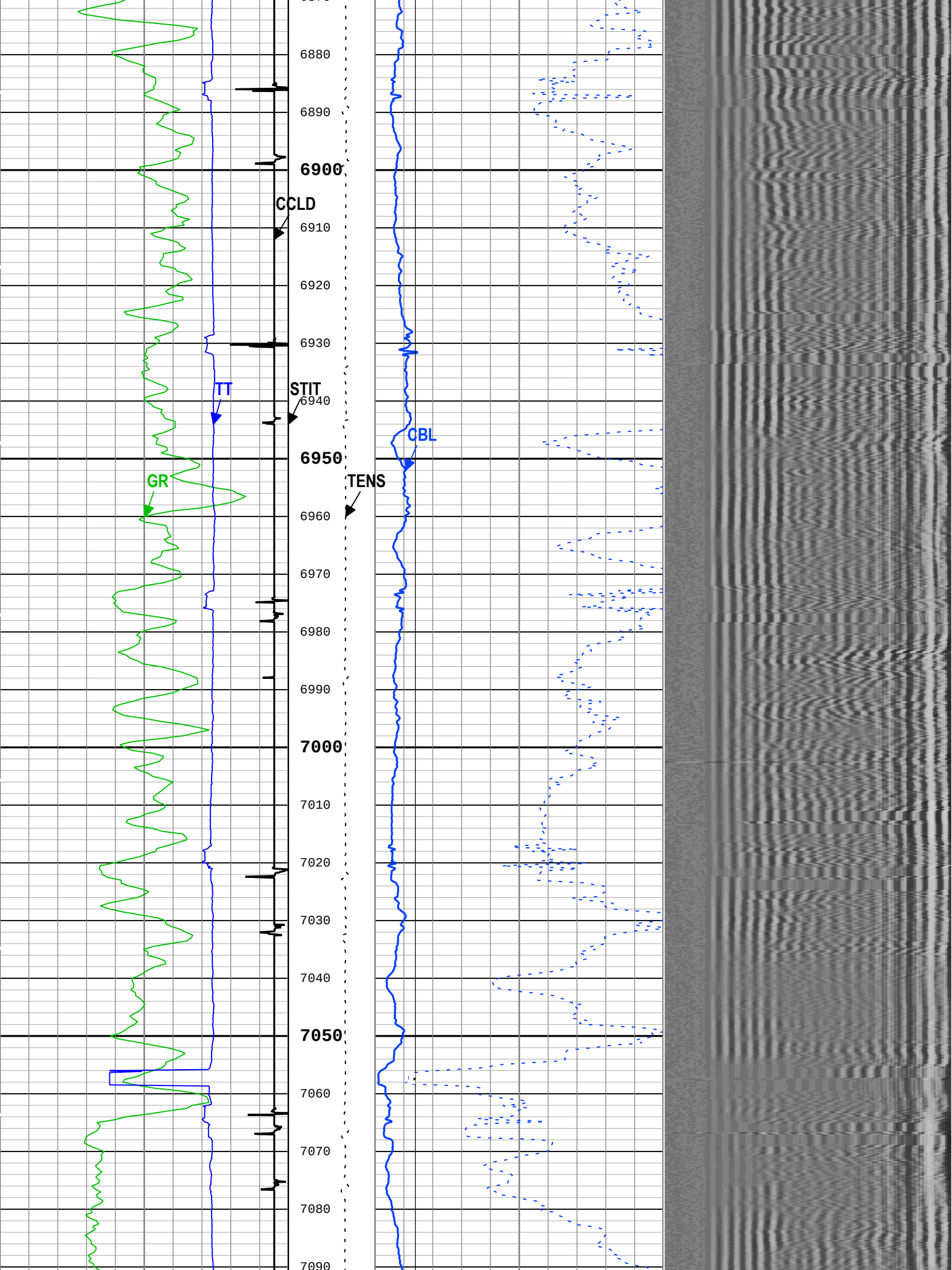
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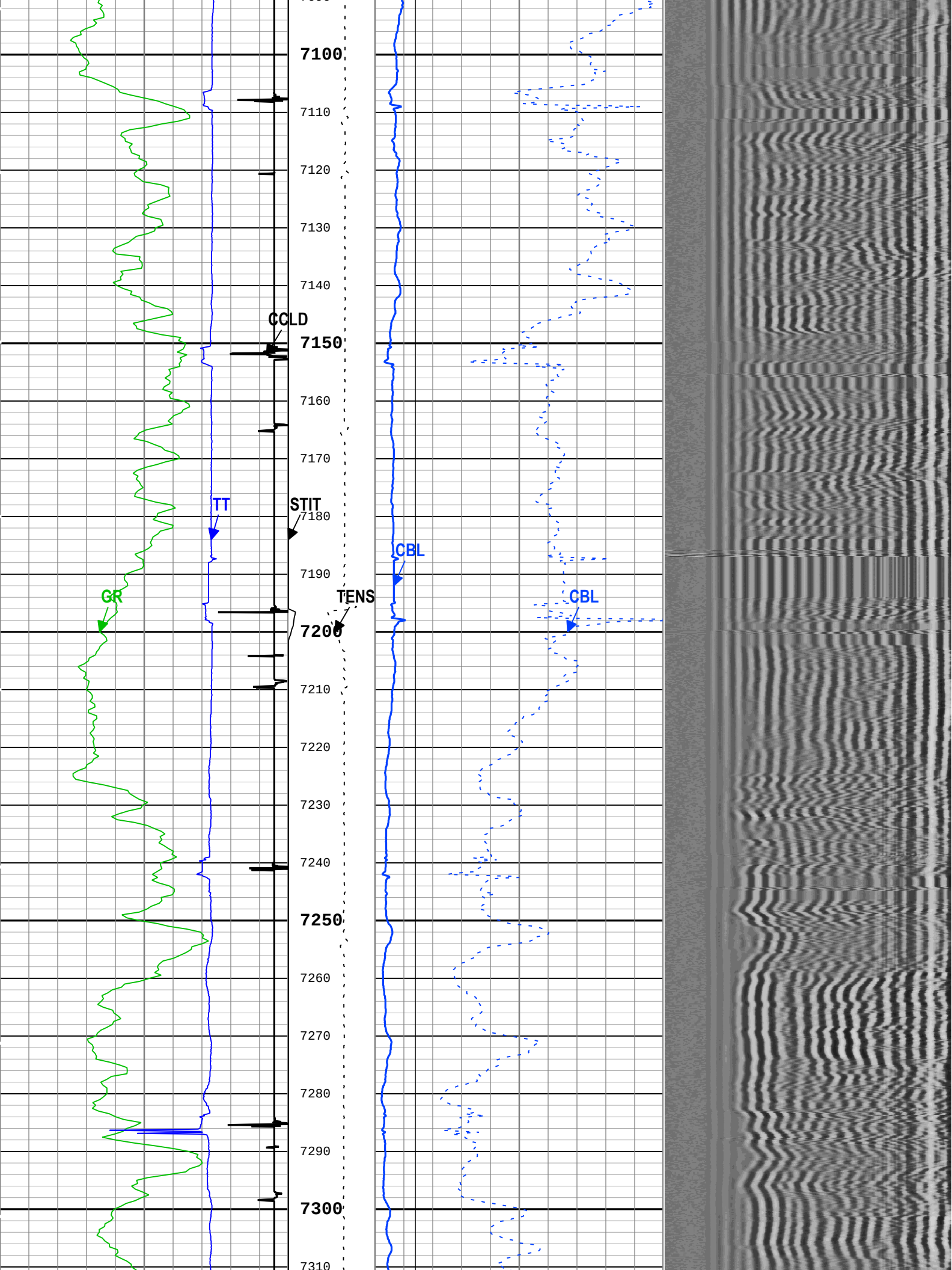
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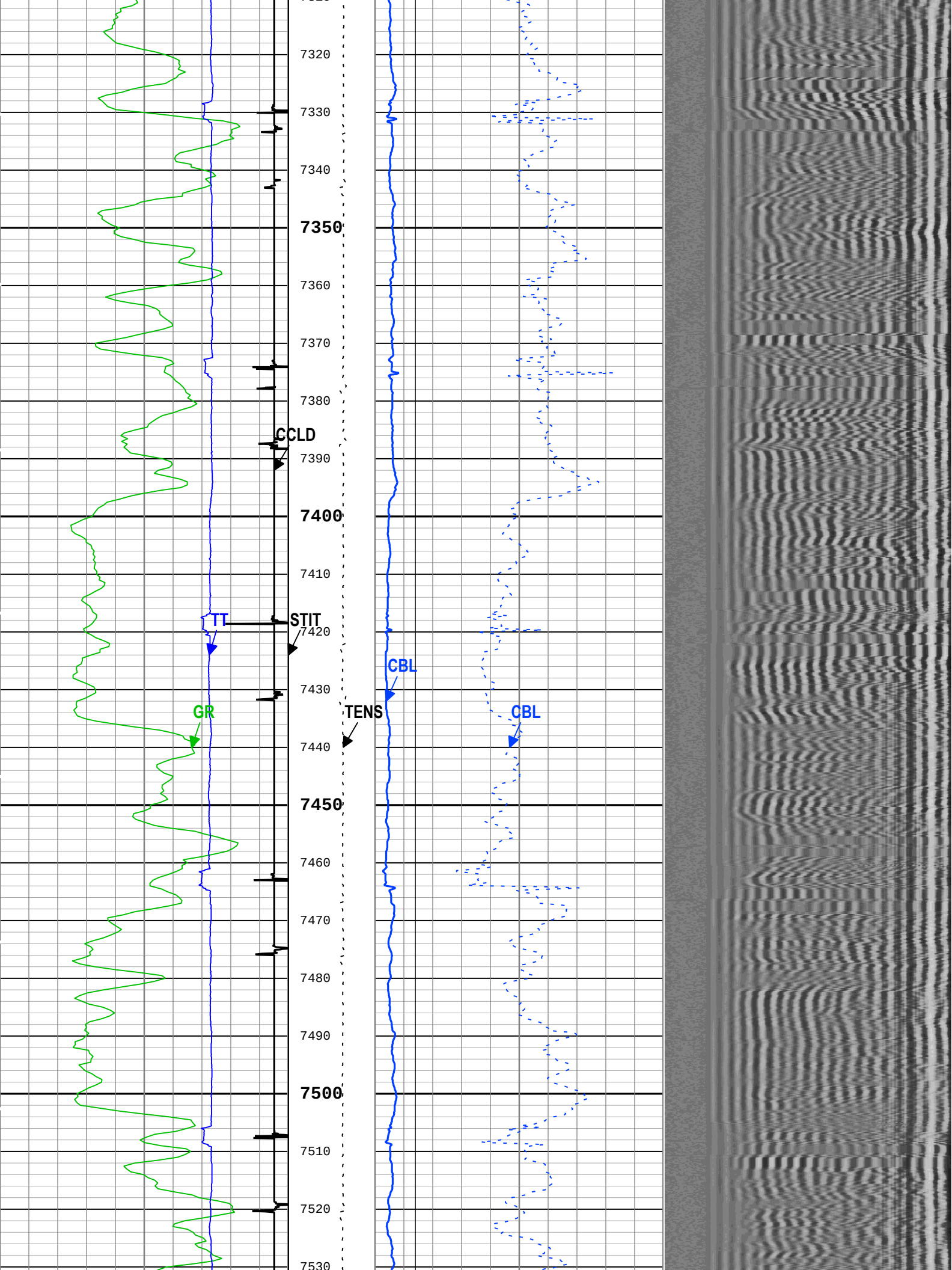
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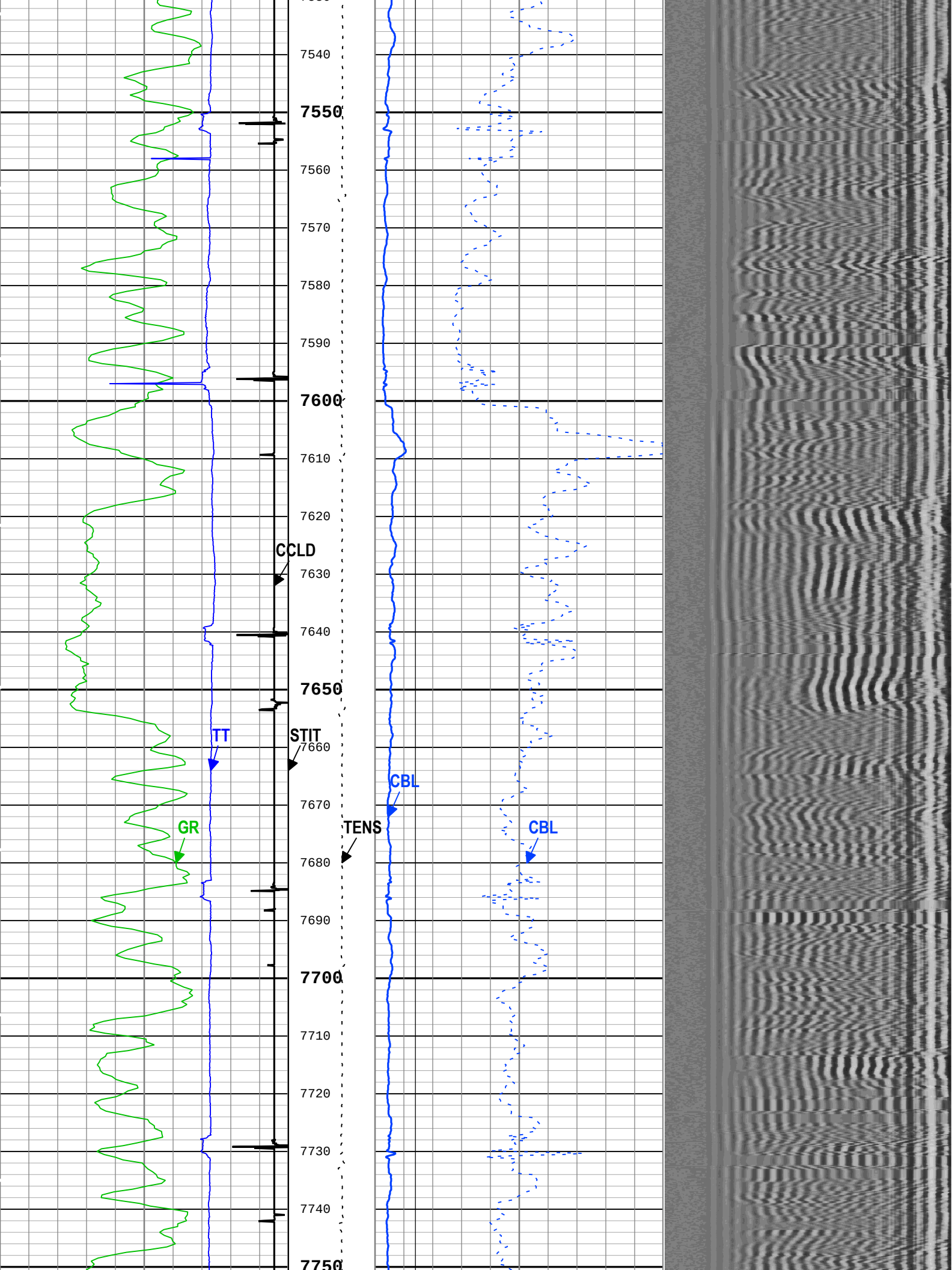
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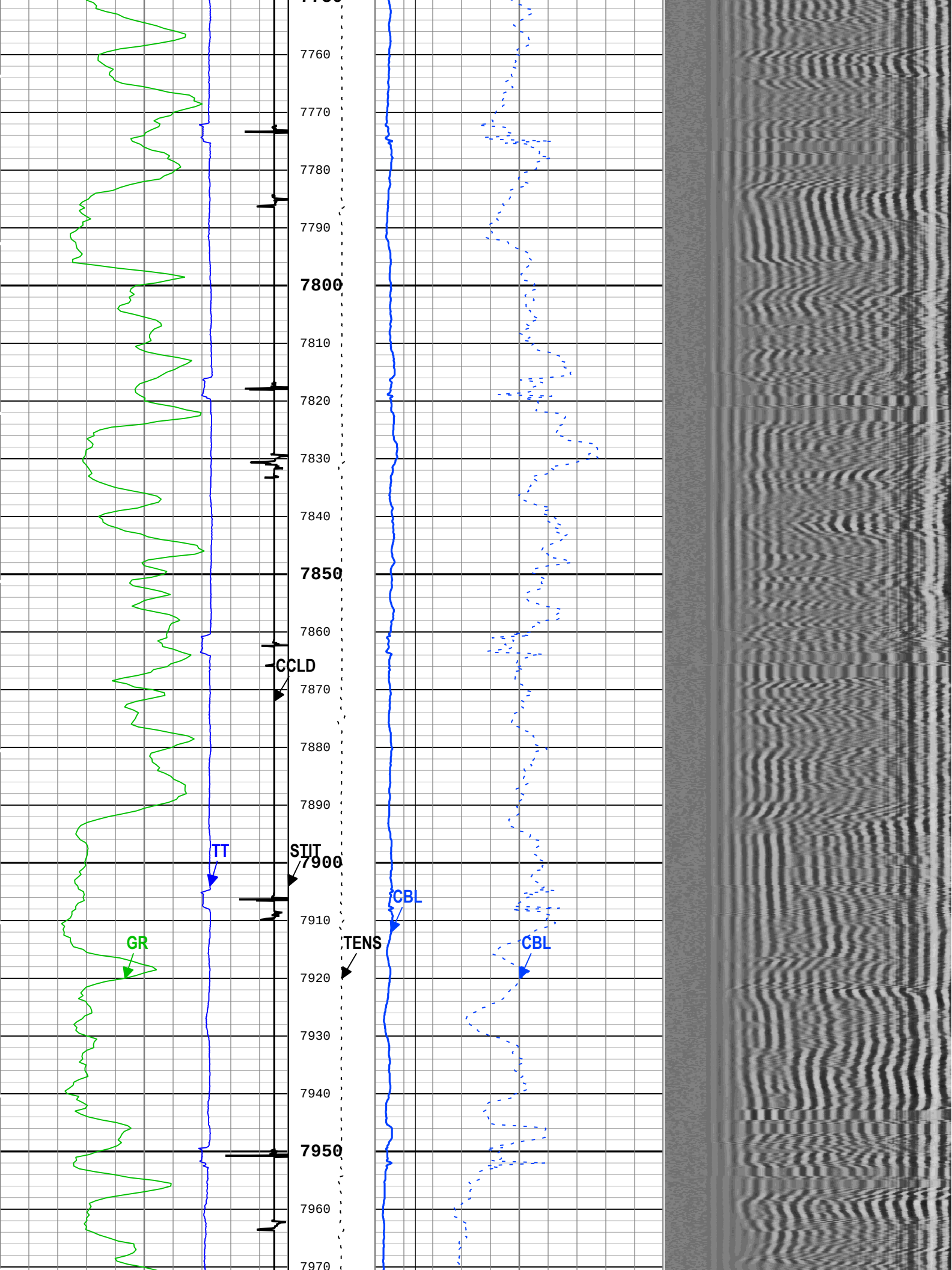
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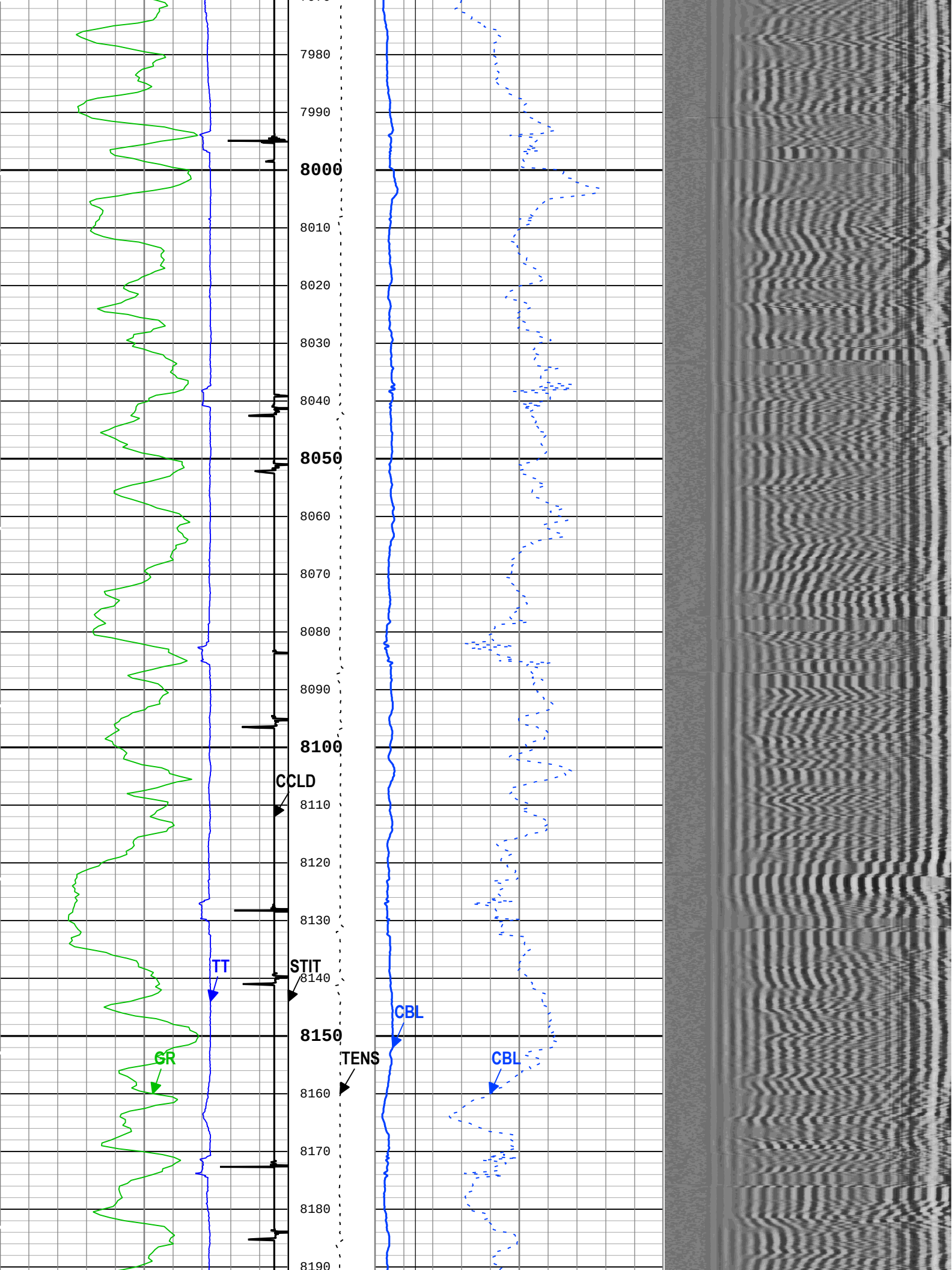
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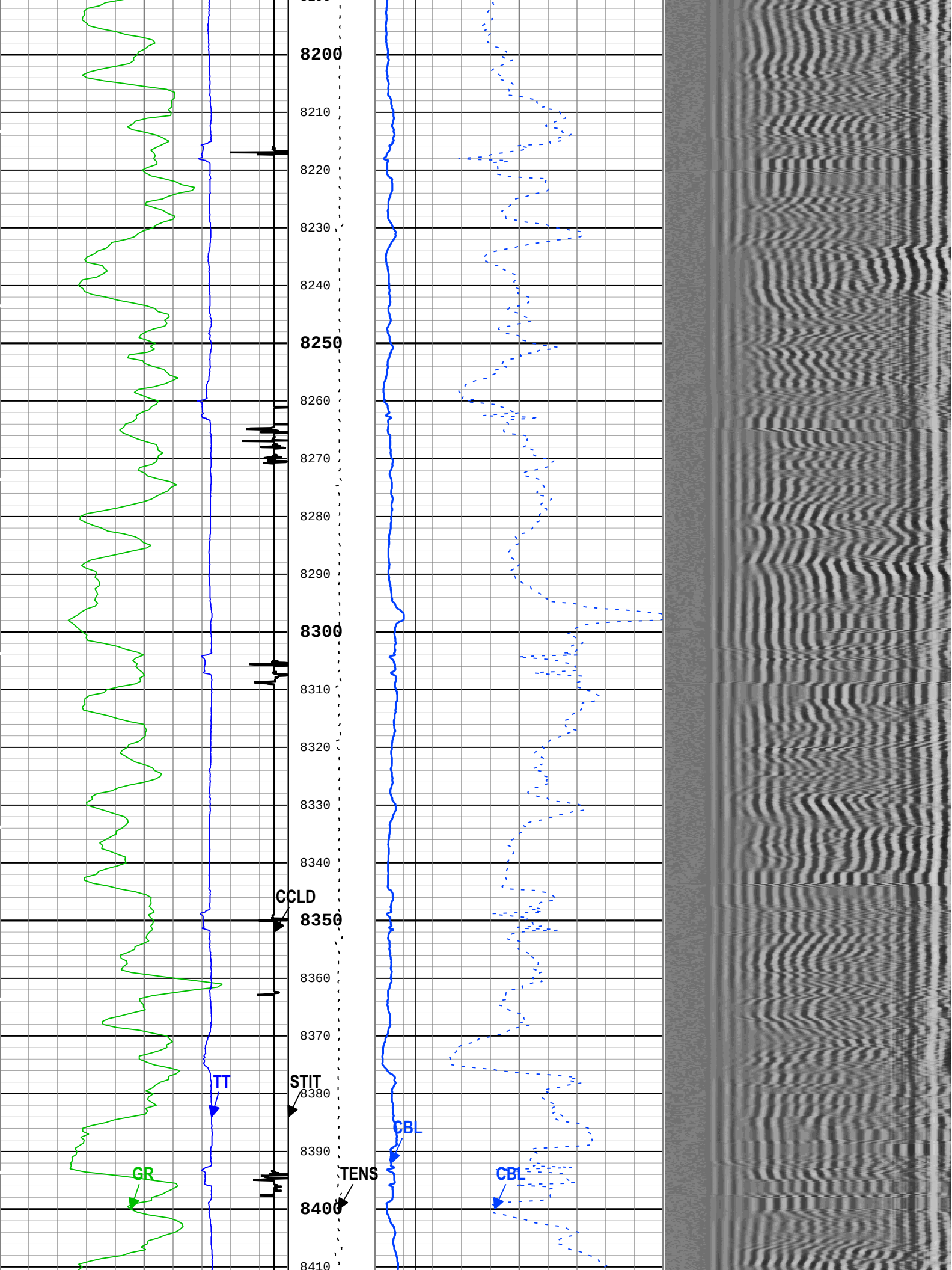
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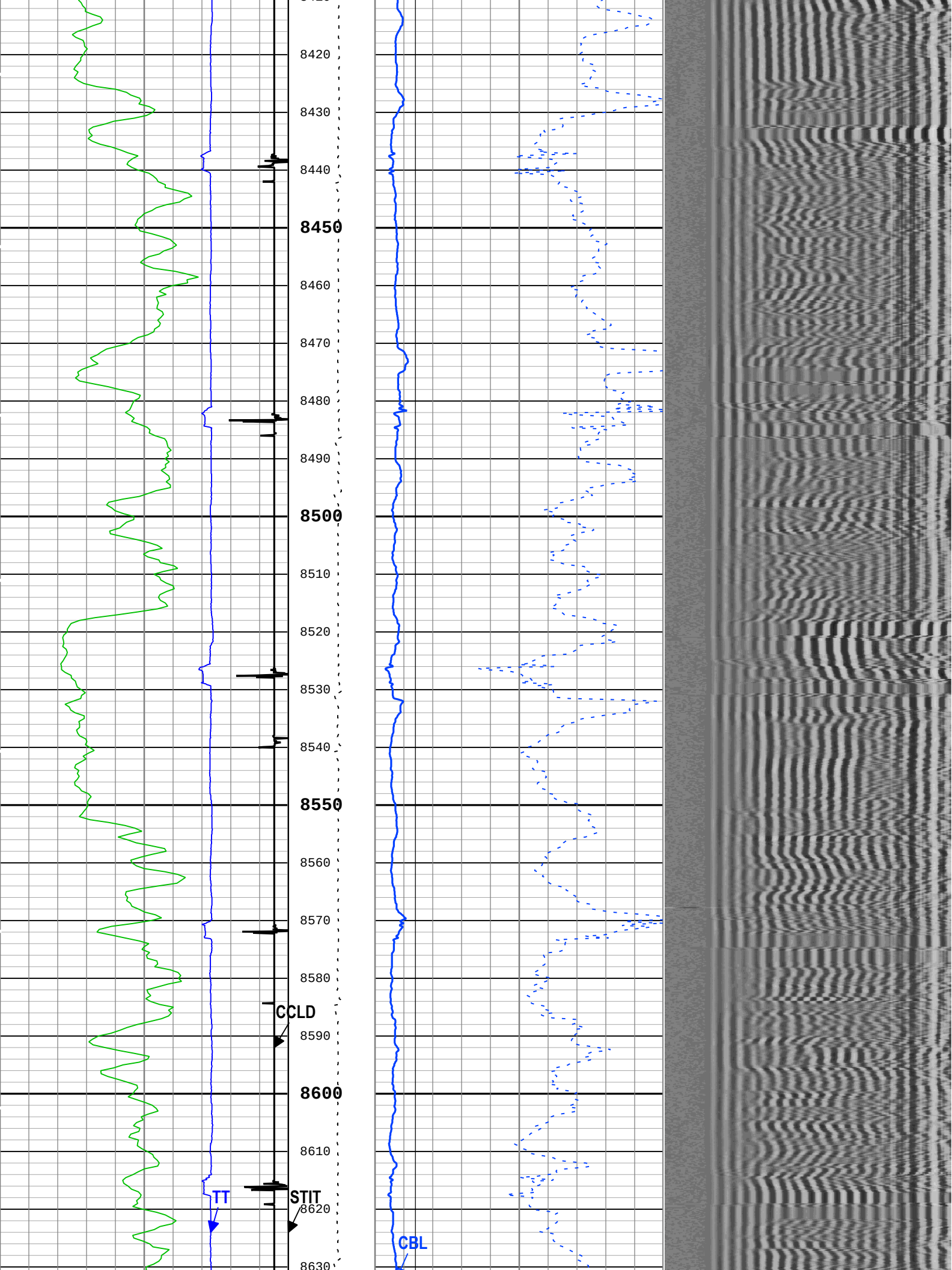
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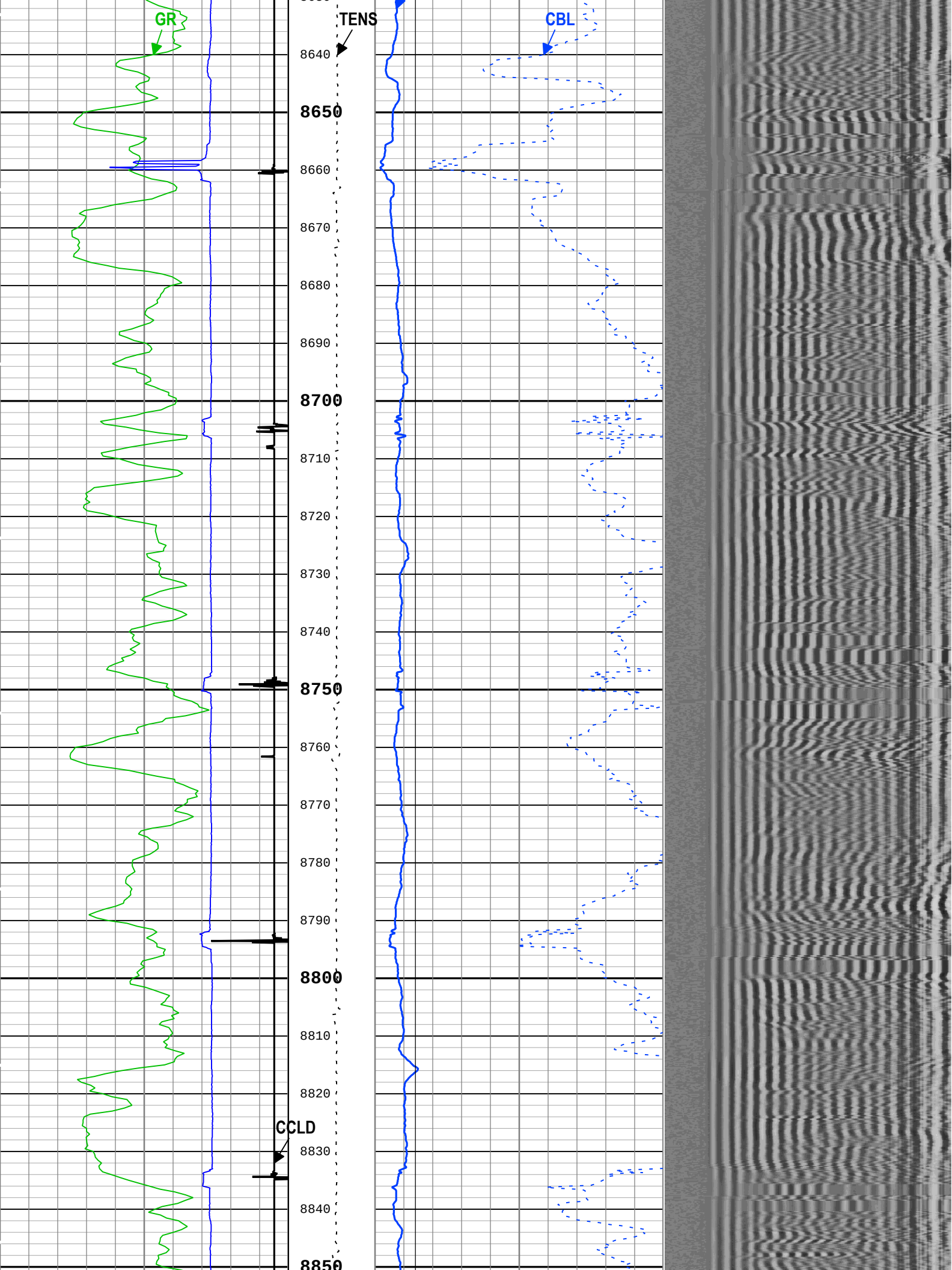
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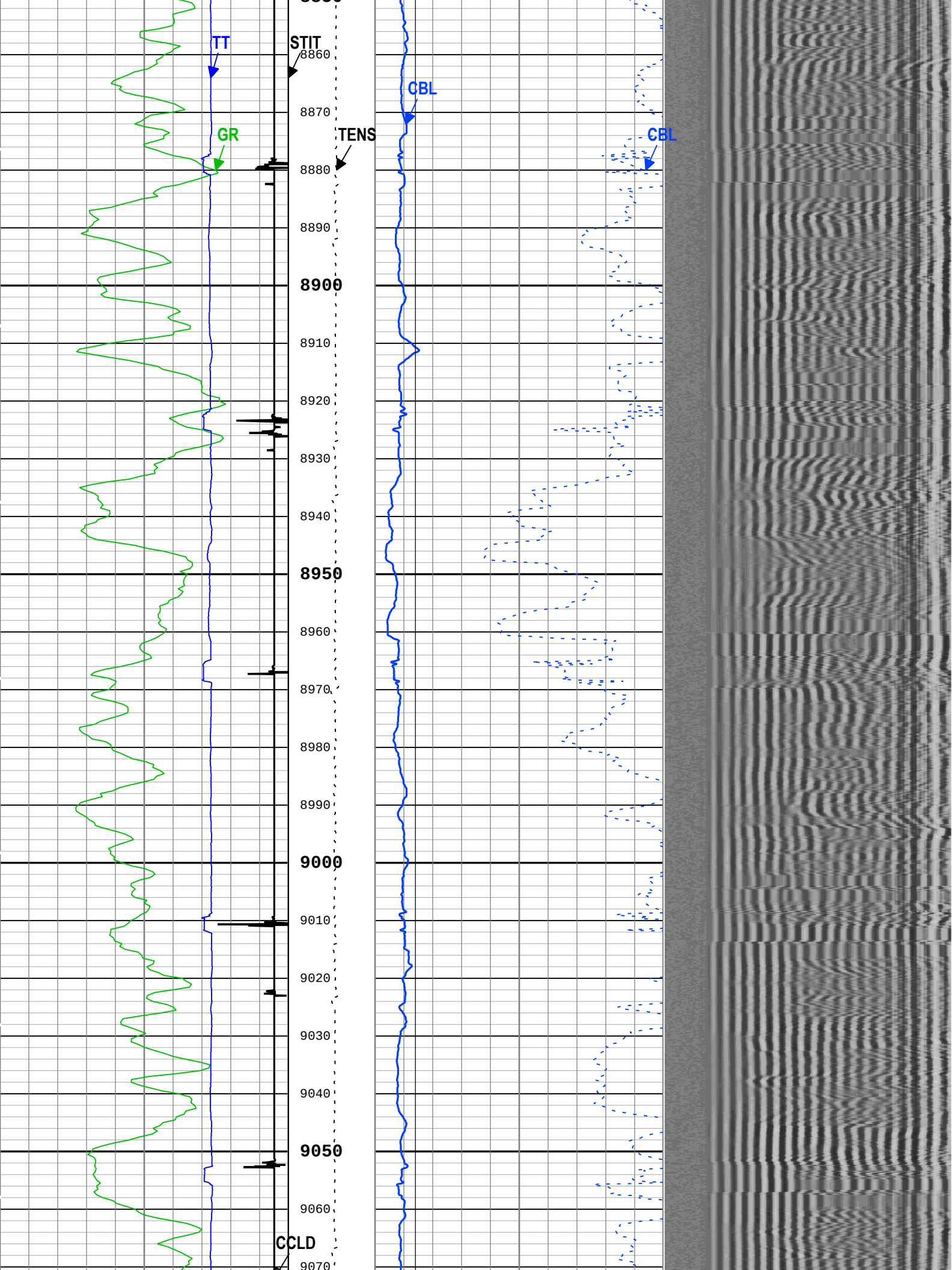
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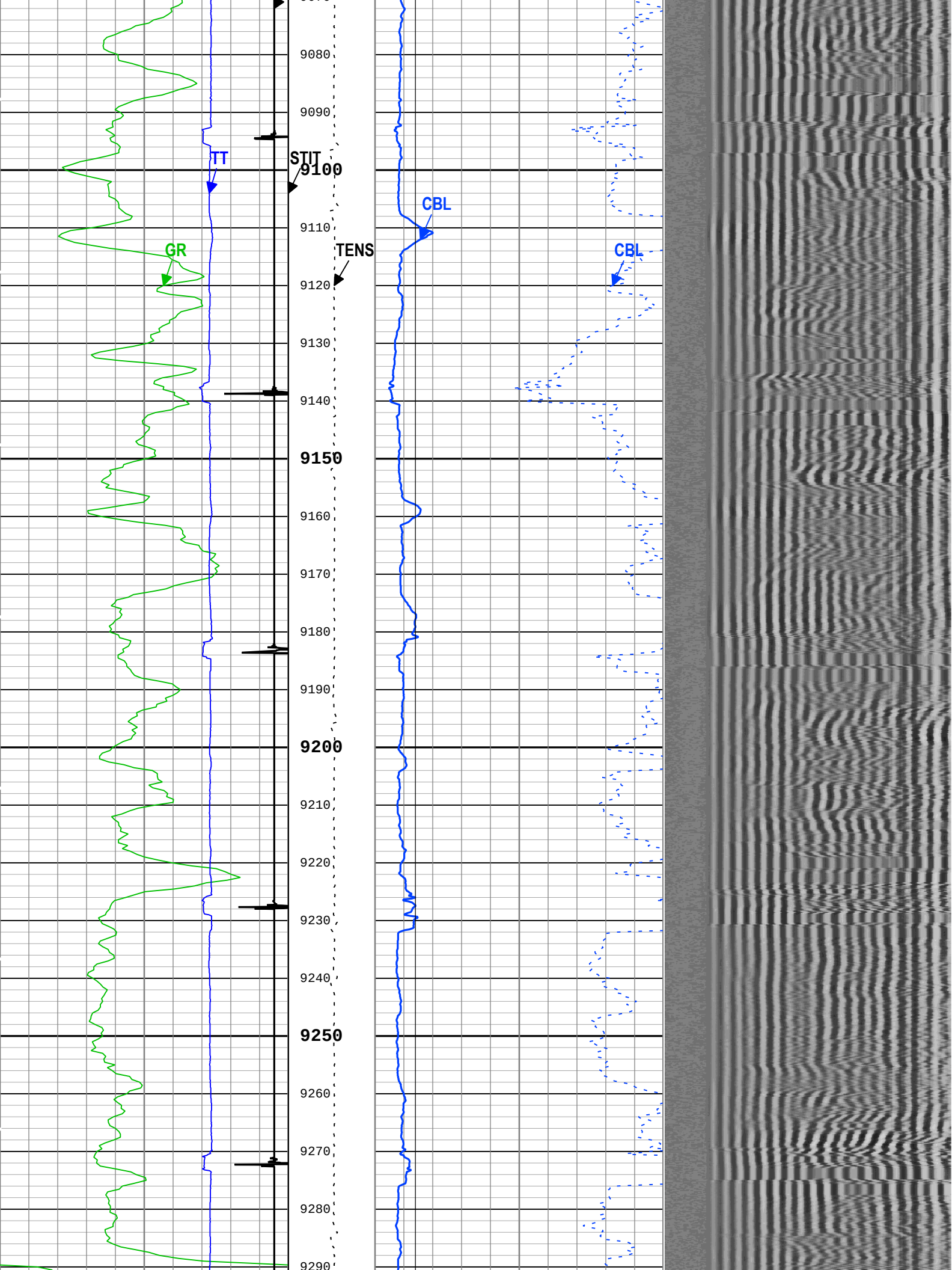
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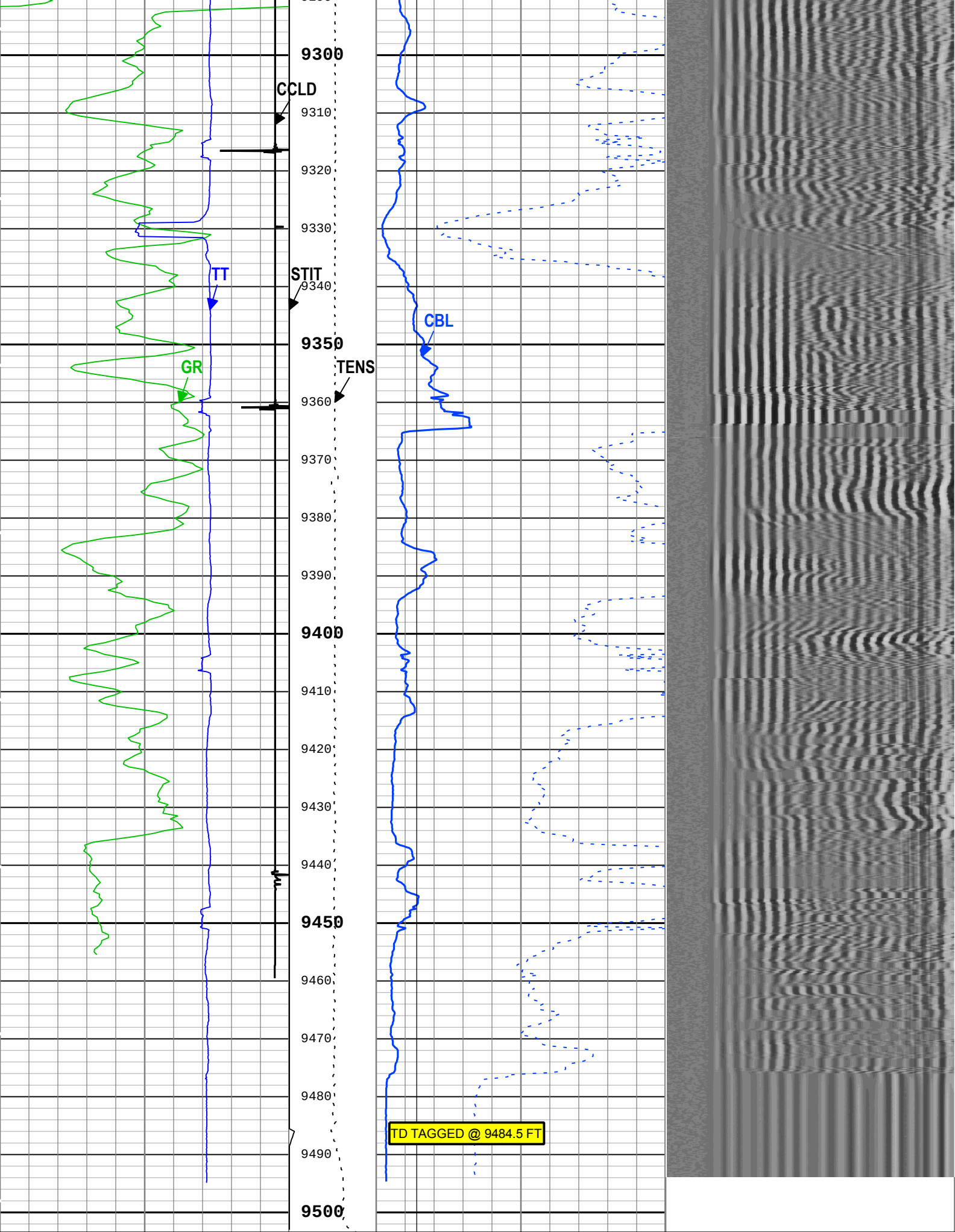
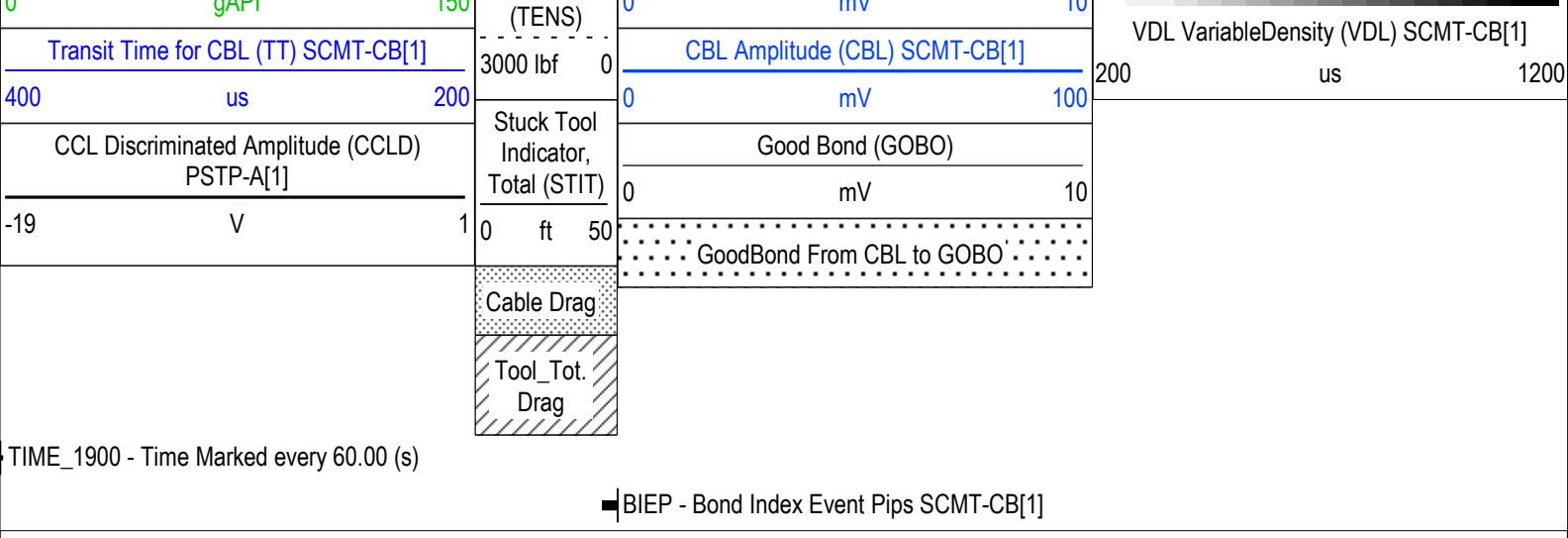


Gamma Ray (GR) PSTP-A[1]

Cable Tension

CBL Amplitude (CBL) SCMT-CB[1]

Min Amplitude Max



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: 06-Sep-2018 15:25:15

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	80	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.5	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	24	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	6709	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	Depth Zoned	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	1	
SHT	Surface Hole Temperature	Borehole	68	degF
TD	Total Measured Depth	Borehole	9484.5	ft

ONEDepth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
MCI	14.81	2300	2400
MCI	1.25	2400	9503.42

All depth are actual.

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	Time Zoned	

ONETime Zoned Parameters

Pass Log[6]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	24 dB	06-Sep-2018 10:20:59	06-Sep-2018 11:03:34	9503.45	8316.53
PCCG	36 dB	06-Sep-2018 11:03:34	06-Sep-2018 11:03:54	8316.53	8306.58
PCCG	24 dB	06-Sep-2018 11:03:54	06-Sep-2018 13:17:56	8306.58	4351.54

Pass Log[8]:Up

PCCG	24 dB	06-Sep-2018 13:39:41	06-Sep-2018 15:00:34	4706.18	2211.46

All depth are at tool zero.

ONE

CBL-VDL Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[5]:Up	Up	9151.29 ft	9495.23 ft	06-Sep-2018 10:03:45 AM	06-Sep-2018 10:16:25 AM	ON	4.04 ft	No

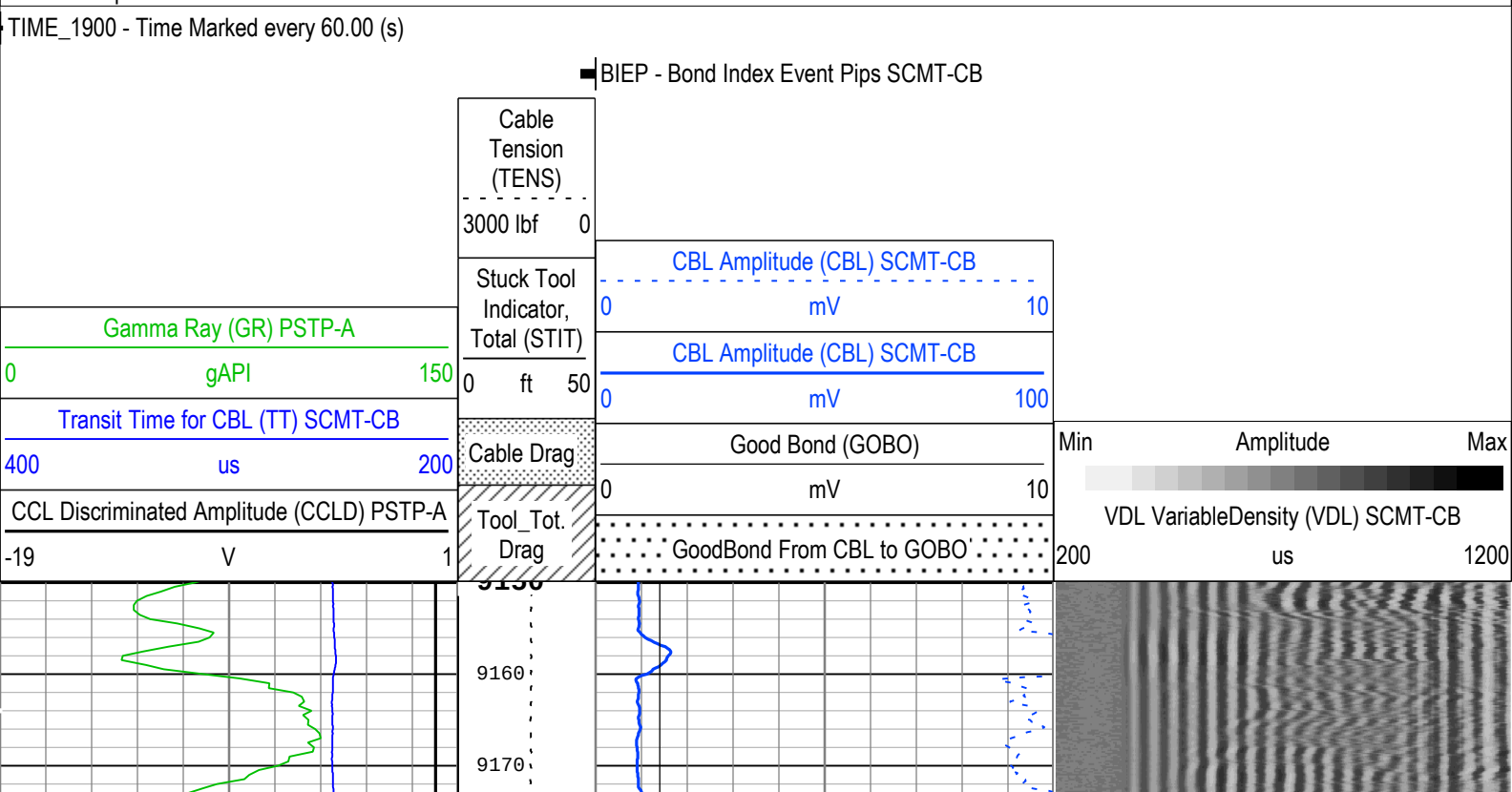
All depths are referenced to toolstring zero

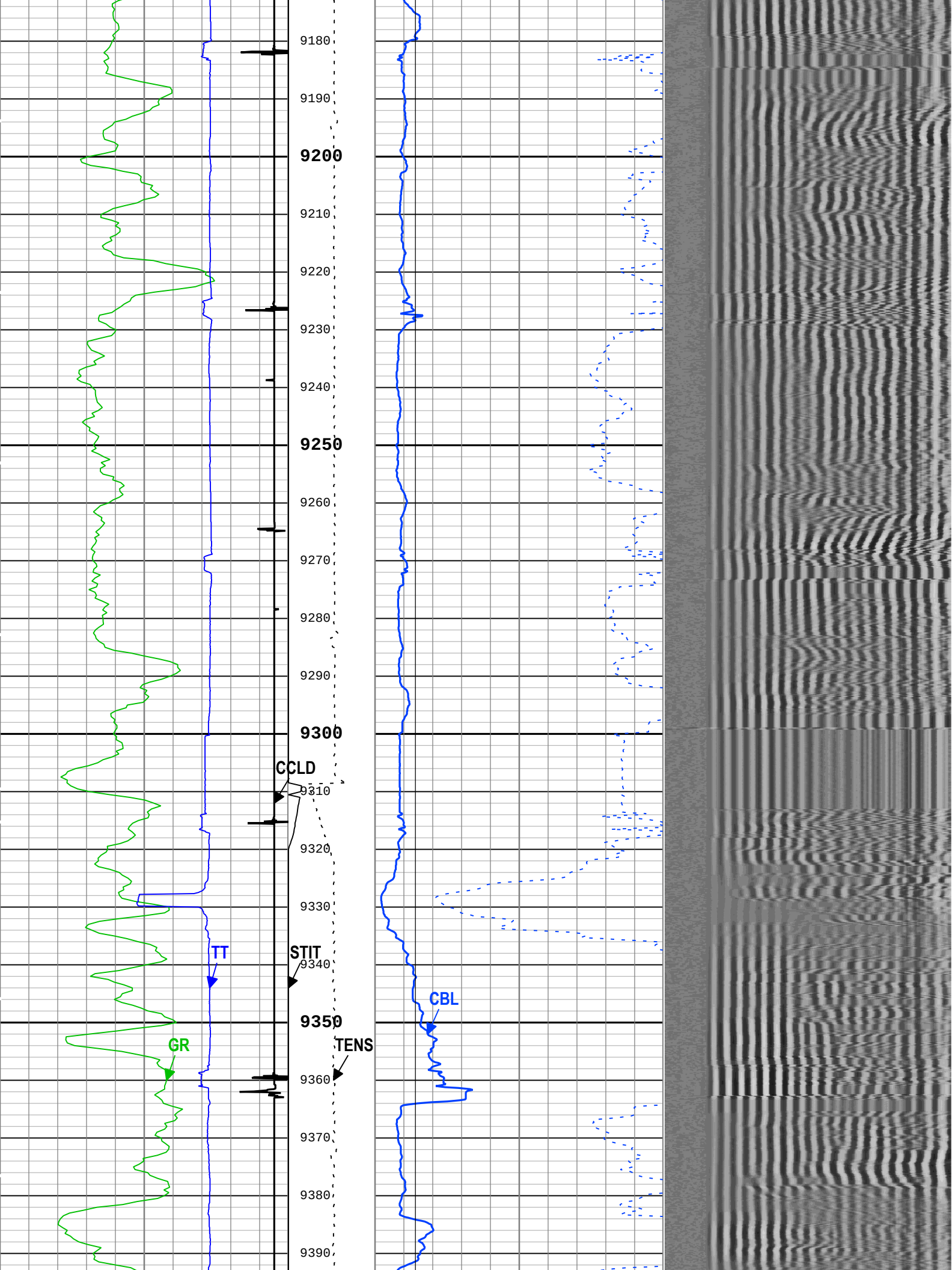
Log

Company:Caerus Operating LLC Well:NPR 13B-10 596

ONE: Log[5]:Up:S008

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: 06-Sep-2018 15:25:24

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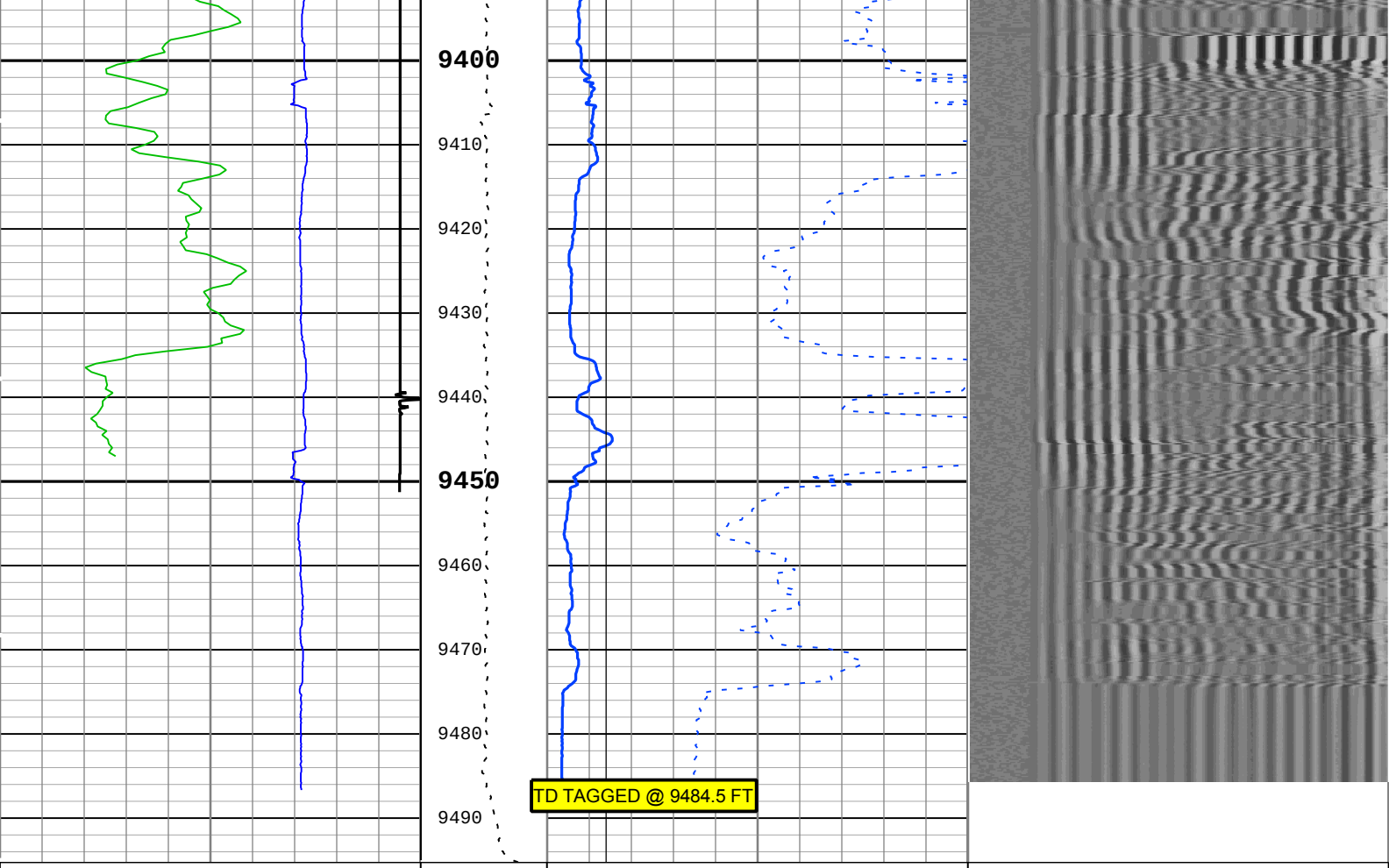


Gamma Ray (GR) PSTP-A
0 gAPI 150

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

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

Cable Tension (TENS)
3000 lbf 0

Stuck Tool Indicator, Total (STIT)
0 ft 50

Cable Drag

Tool_Tot. Drag

CBL Amplitude (CBL) SCMT-CB
0 mV 10

CBL Amplitude (CBL) SCMT-CB
0 mV 100

Good Bond (GOBO)
0 mV 10

GoodBond From CBL to GOBO

Min Amplitude Max

VDL VariableDensity (VDL) SCMT-CB
200 us 1200

BIEP - Bond Index Event Pips SCMT-CB

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: 06-Sep-2018 15:25:24

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	80	mV
THNO	Nominal Casing Thickness - Zoned along logger depths	WLSESSION	0.25	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.5	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	24	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	6709	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	1	
SHT	Surface Hole Temperature	Borehole	68	degF
TD	Total Measured Depth	Borehole	9484.5	ft

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	24 dB	

Main Pass

RST Sigma Main Pass

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[6]:Up	Up	4351.54 ft	9503.45 ft	06-Sep-2018 10:20:59 AM	06-Sep-2018 1:17:56 PM	ON	5.64 ft	No
ONE	Log[8]:Up	Up	2211.46 ft	4706.18 ft	06-Sep-2018 1:39:31 PM	06-Sep-2018 3:00:34 PM	ON	5.45 ft	No

All depths are referenced to toolstring zero

Log

Company:Caerus Operating LLC Well:NPR 13B-10 596

Main Pass:S008

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: 06-Sep-2018 15:25:26

TIME_1900 - Time Marked every 60.00 (s)

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

IHV - Integrated Hole Volume every 10.00 (ft3)

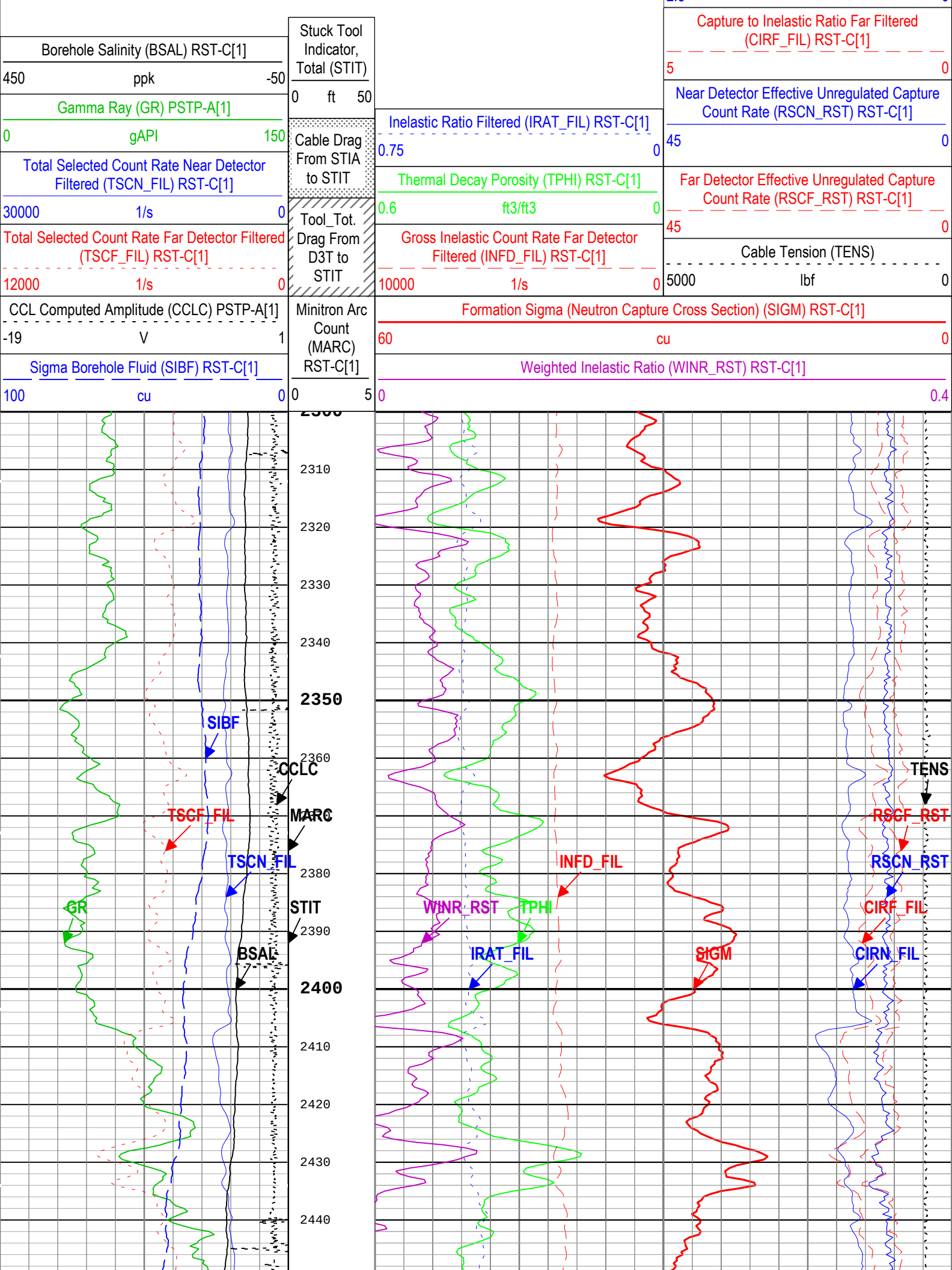
IHV - Integrated Hole Volume every 100.00 (ft3)

ICV - Integrated Cement Volume every 10.00 (ft3)

ICV - Integrated Cement Volume every 100.00 (ft3)

Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C[1]

2.5 0


Borehole Salinity (BSAL) RST-C[1]
450 ppk -50
Gamma Ray (GR) PSTP-A[1]
0 gAPI 150
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C[1]
30000 1/s 0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C[1]
12000 1/s 0
CCL Computed Amplitude (CCLC) PSTP-A[1]
-19 V 1
Sigma Borehole Fluid (SIBF) RST-C[1]
100 cu 0
Stuck Tool Indicator, Total (STIT)
0 ft 50
Cable Drag From STIA to STIT
Tool_Tot. Drag From D3T to STIT
Minitron Arc Count (MARC) RST-C[1]
0 5
Inelastic Ratio Filtered (IRAT_FIL) RST-C[1]
0.75 0
Thermal Decay Porosity (TPHI) RST-C[1]
0.6 ft3/ft3 0
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C[1]
10000 1/s 0
Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C[1]
60 cu 0
Weighted Inelastic Ratio (WINR_RST) RST-C[1]
0 0.4
Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C[1]
5 0
Near Detector Effective Unregulated Capture Count Rate (RSCN_RST) RST-C[1]
45 0
Far Detector Effective Unregulated Capture Count Rate (RSCF_RST) RST-C[1]
45 0
Cable Tension (TENS)
5000 lbf 0
2310
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2390
2400
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2420
2430
2440
SIBF
CCLC
MARC
TSCF_FIL
TSCN_FIL
GR
STIT
BSAL
INFD_FIL
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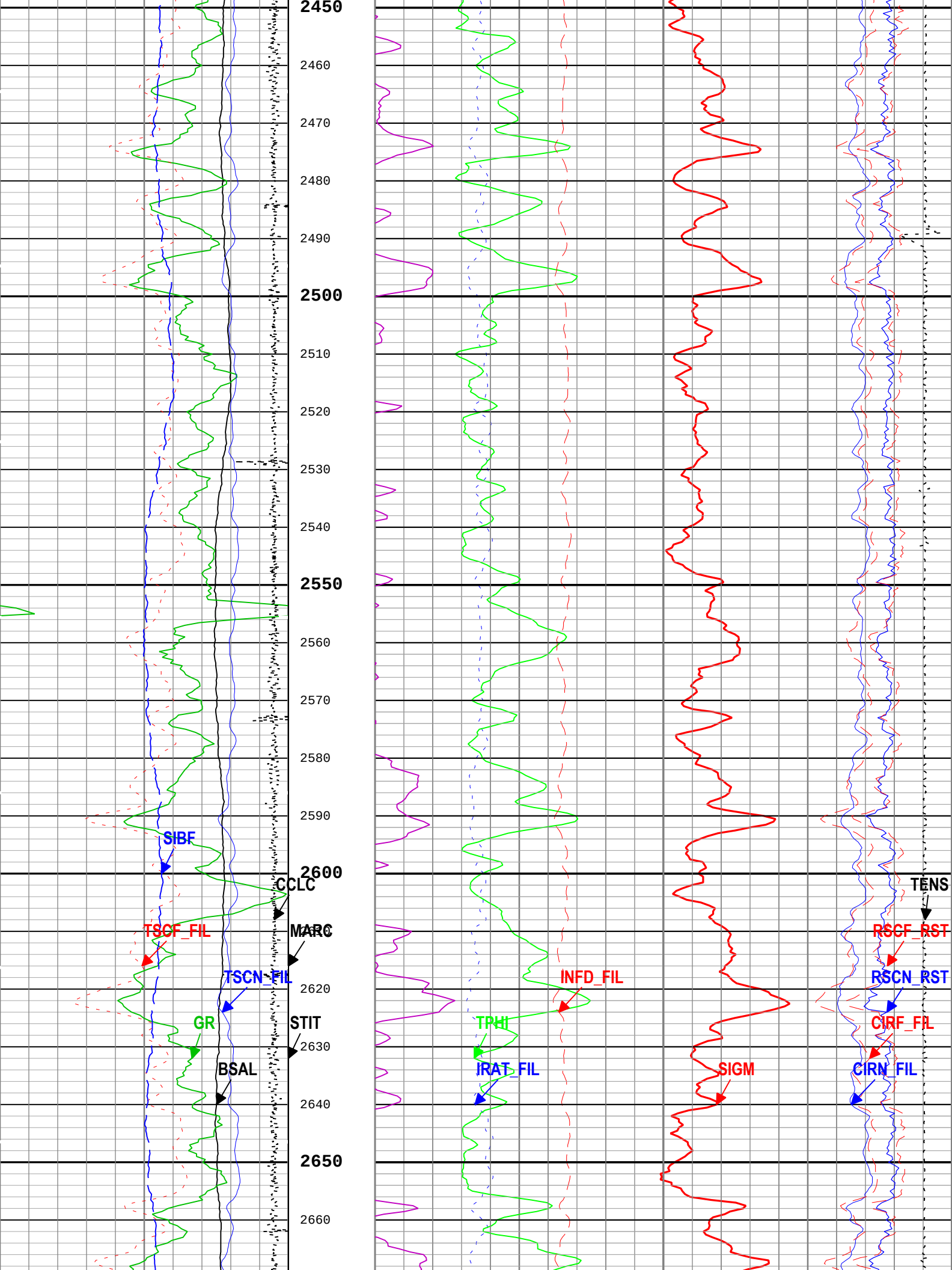
TPHI
IRAT_FIL
SIGM
TENS
RSCF_RST
RSCN_RST
CIRF_FIL
CIRN_FIL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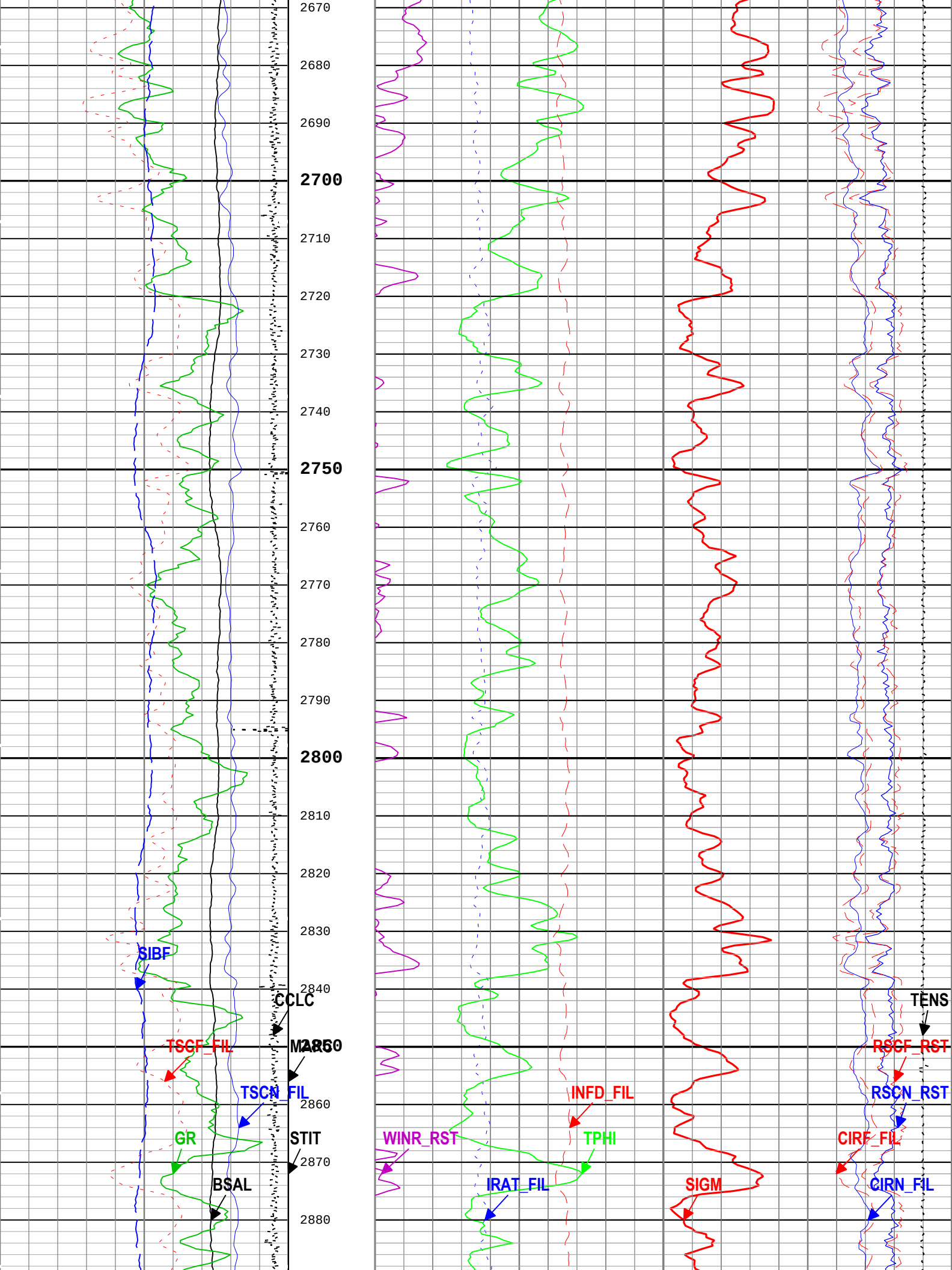
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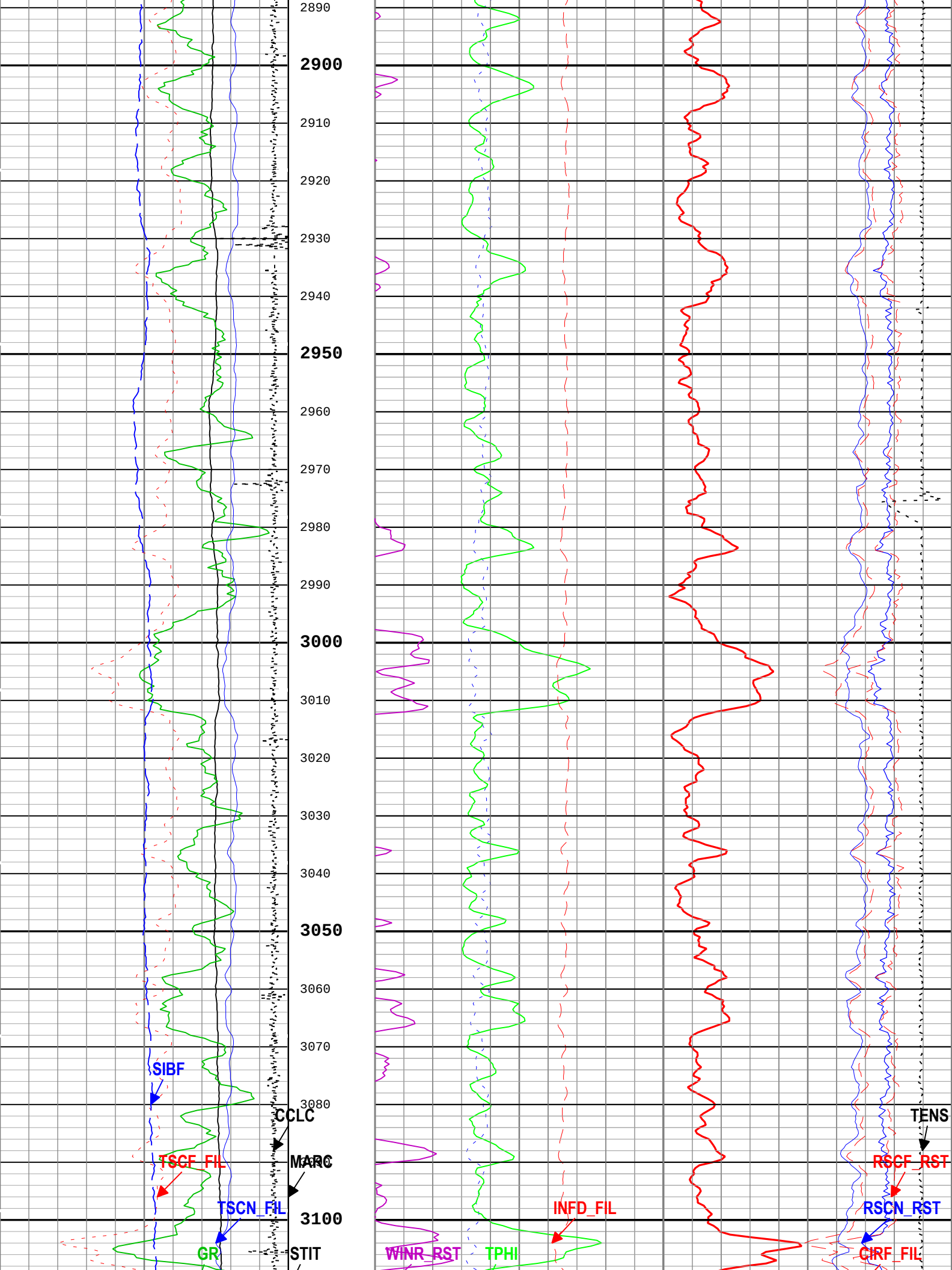
CIRN_FIL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CCLC
TSCF_FIL
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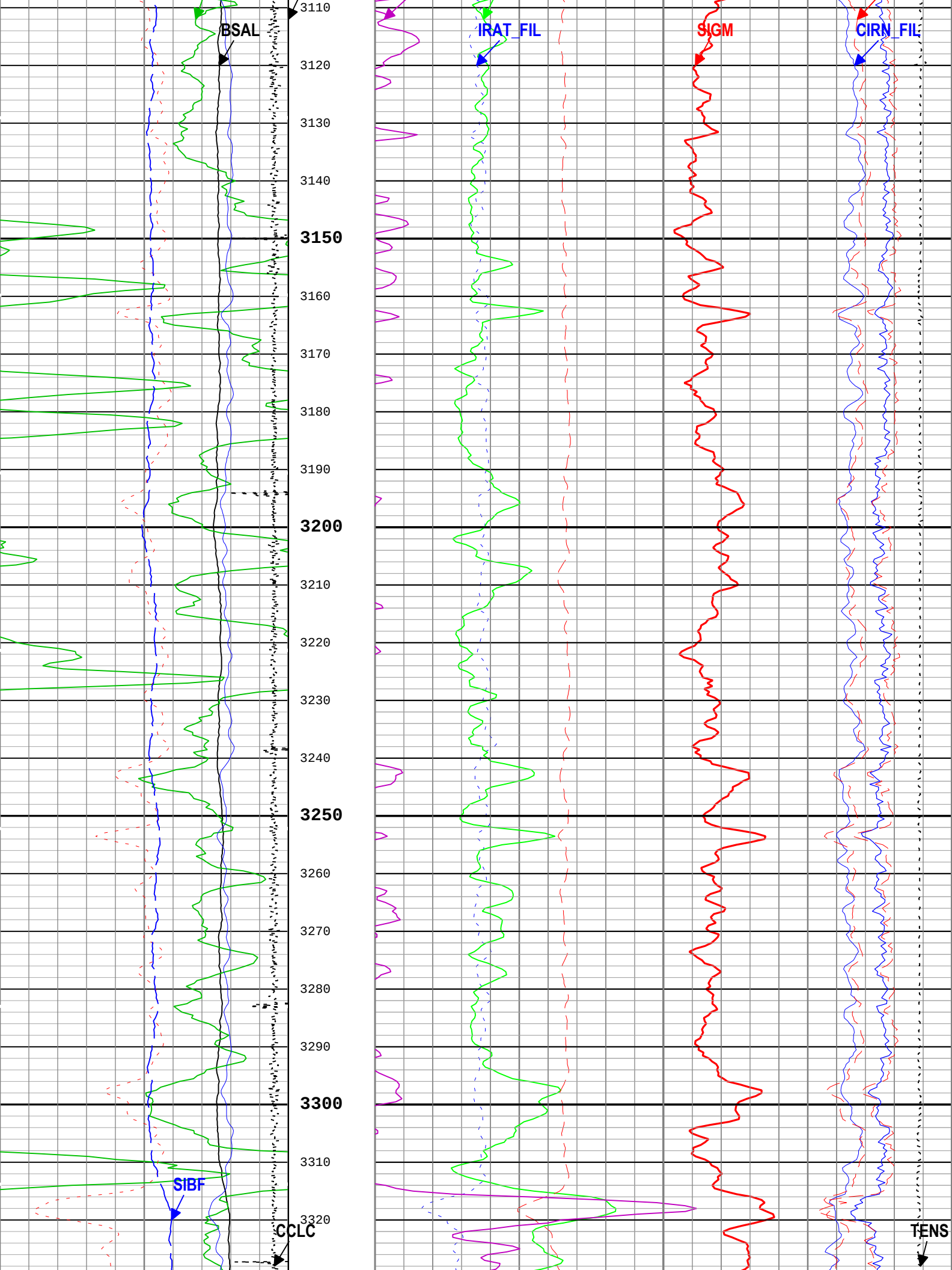
CIRF_FIL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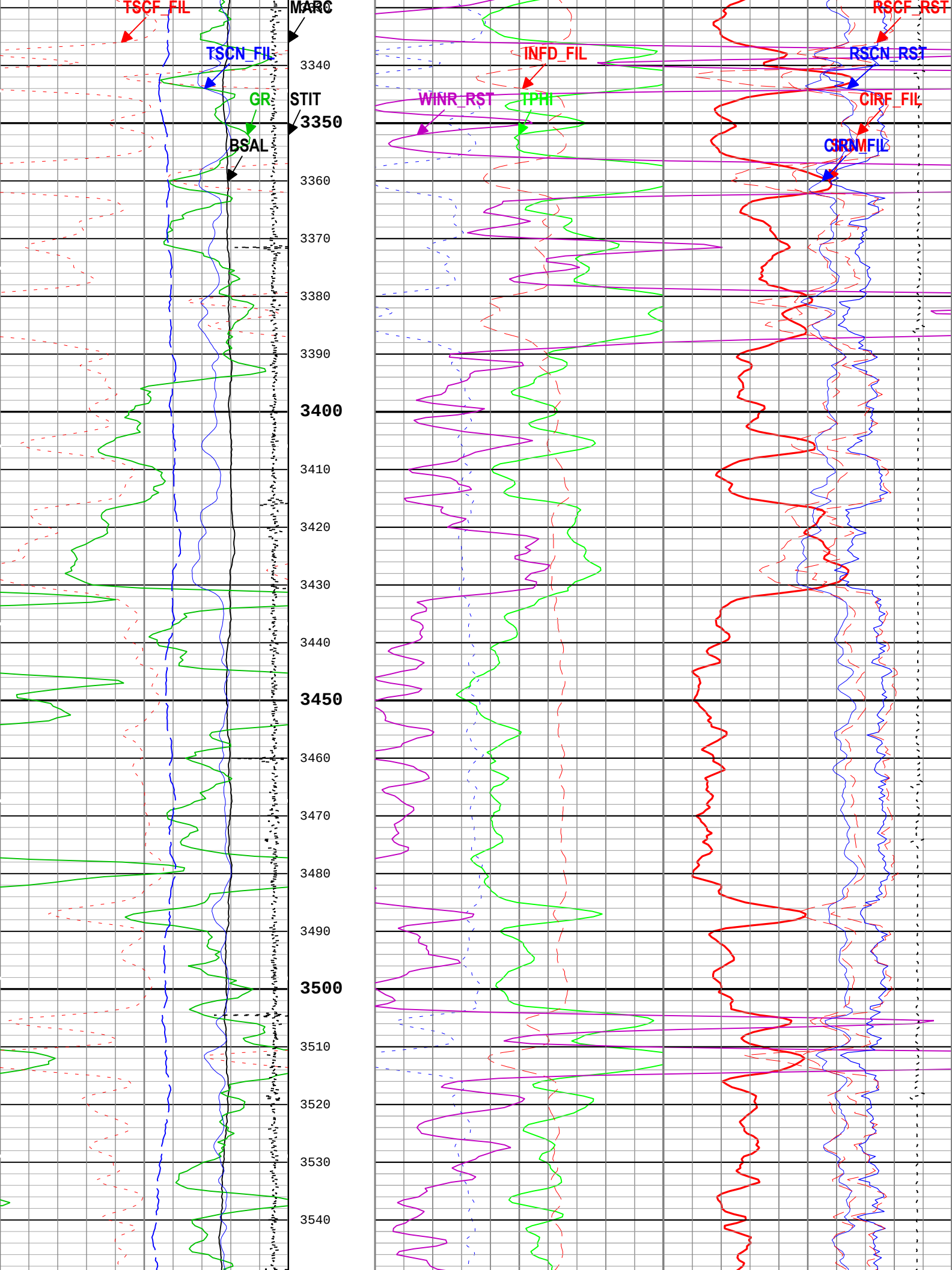
TSCF_FIL
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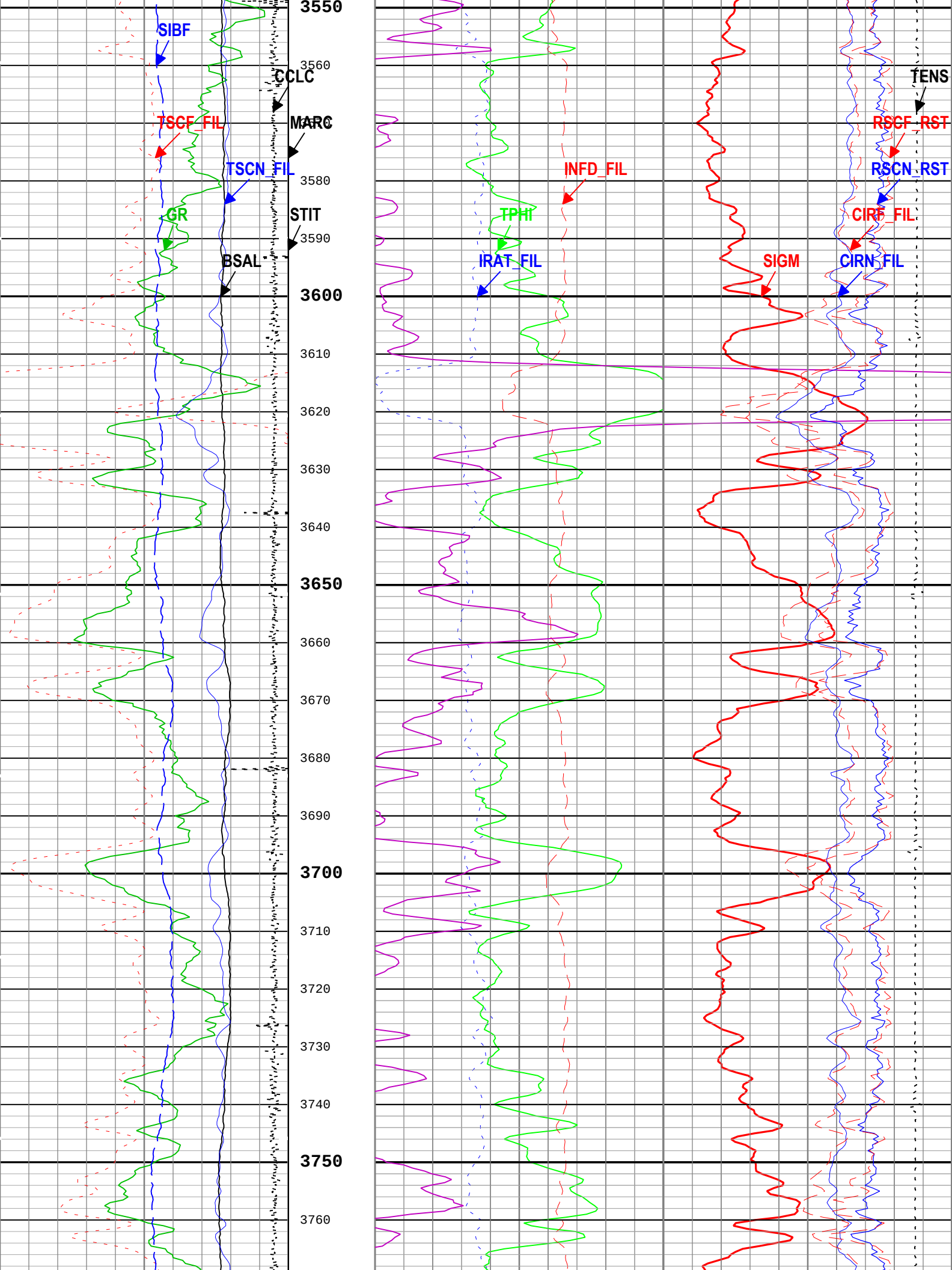
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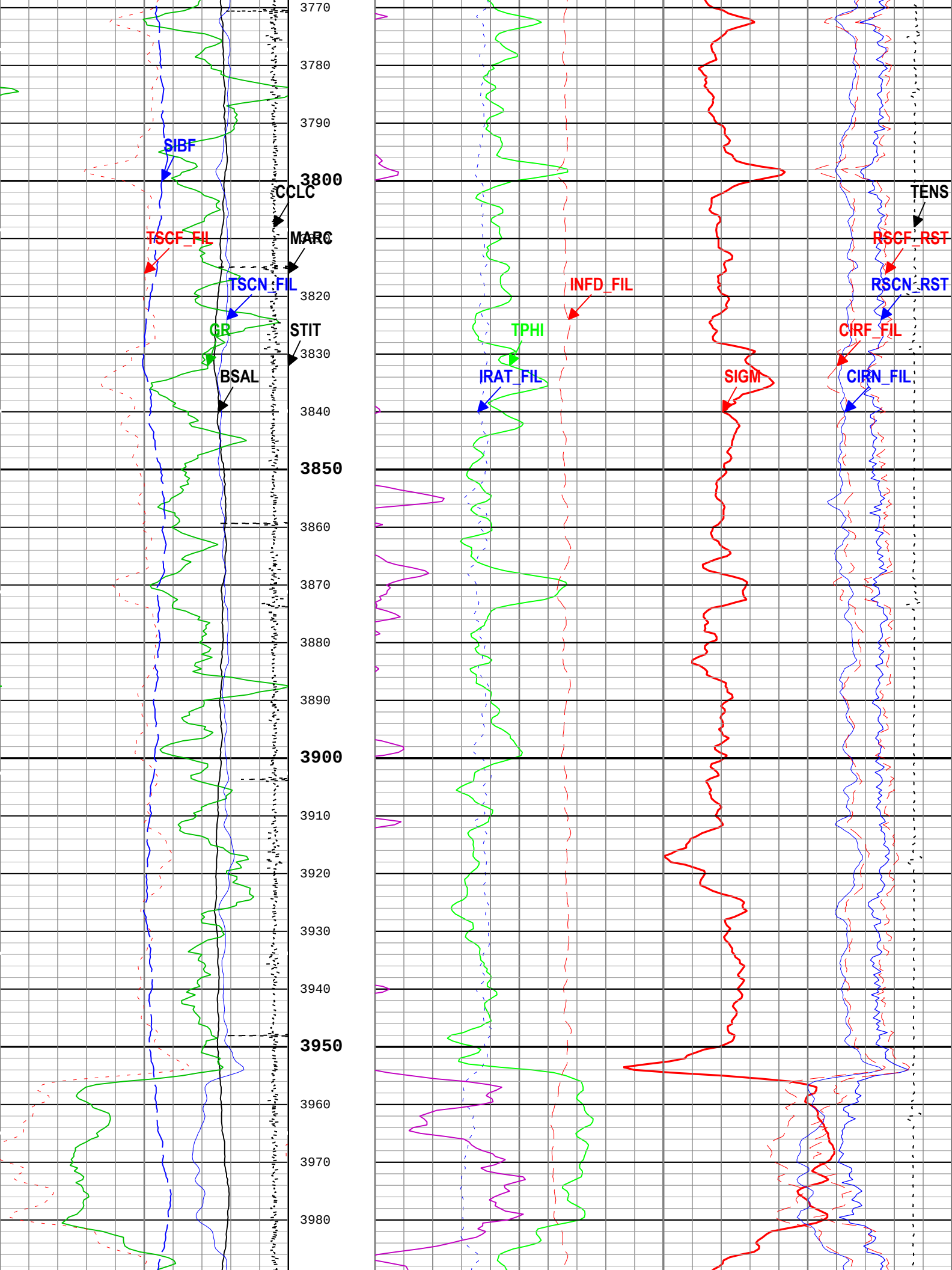
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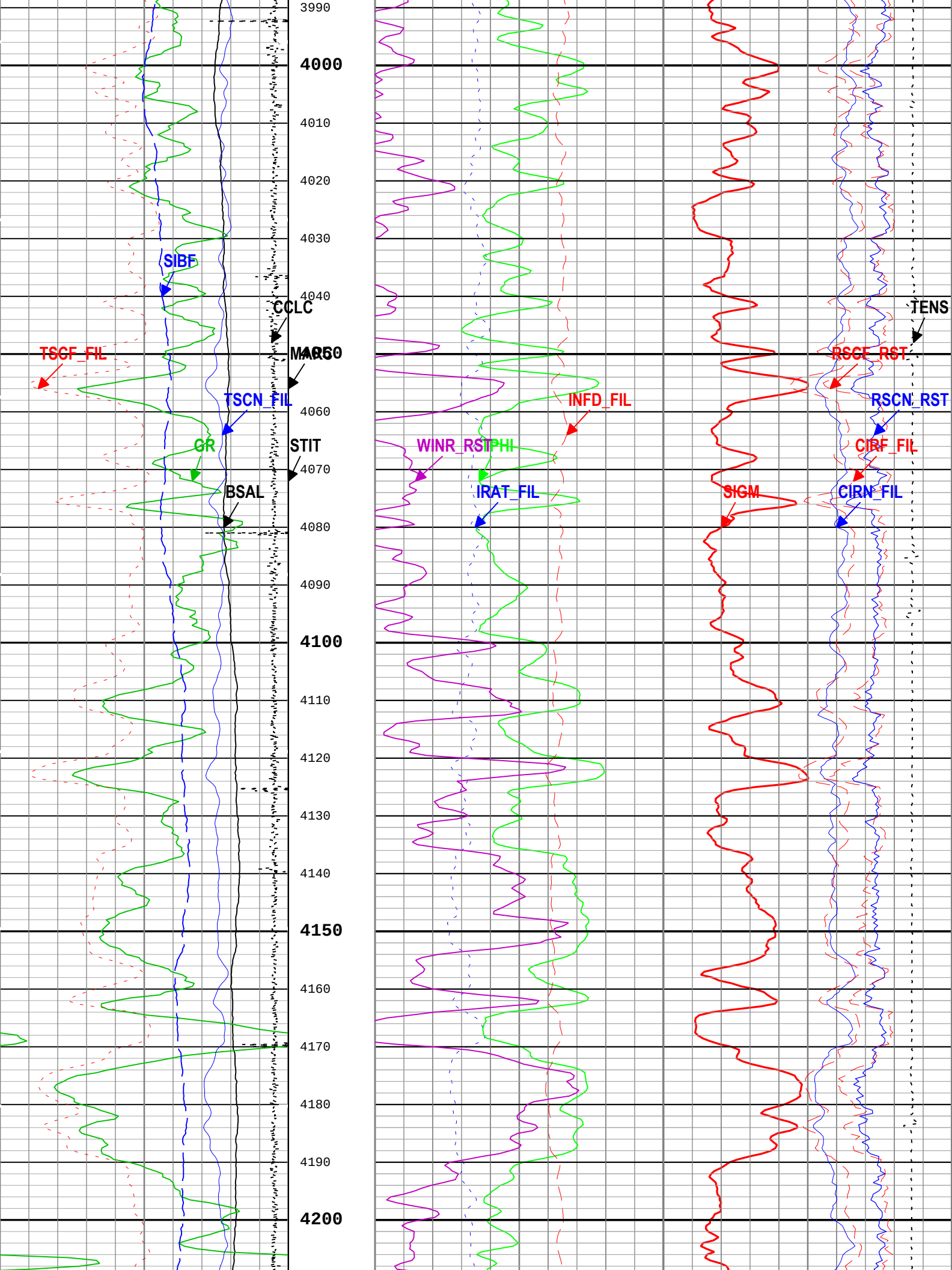
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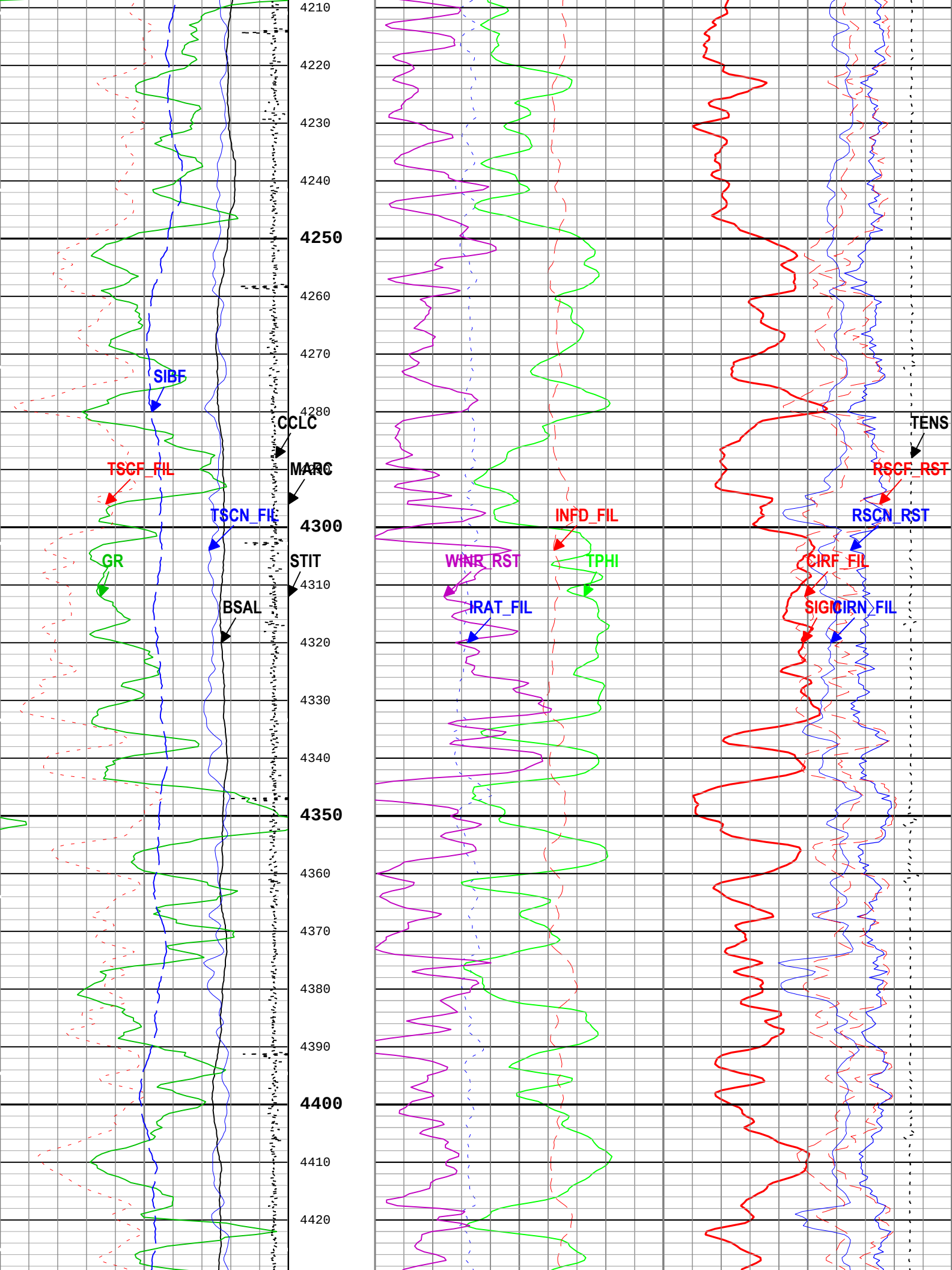
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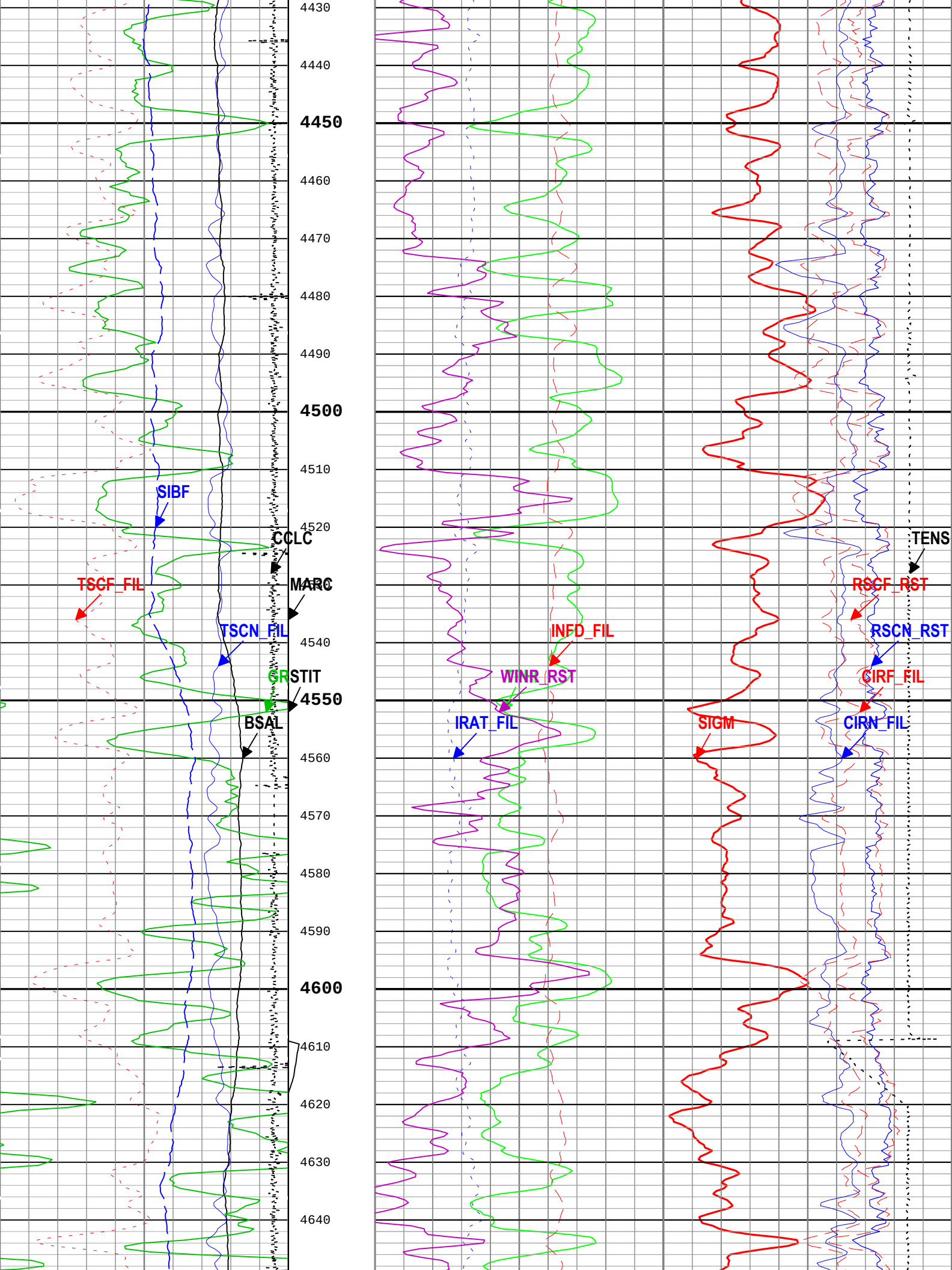
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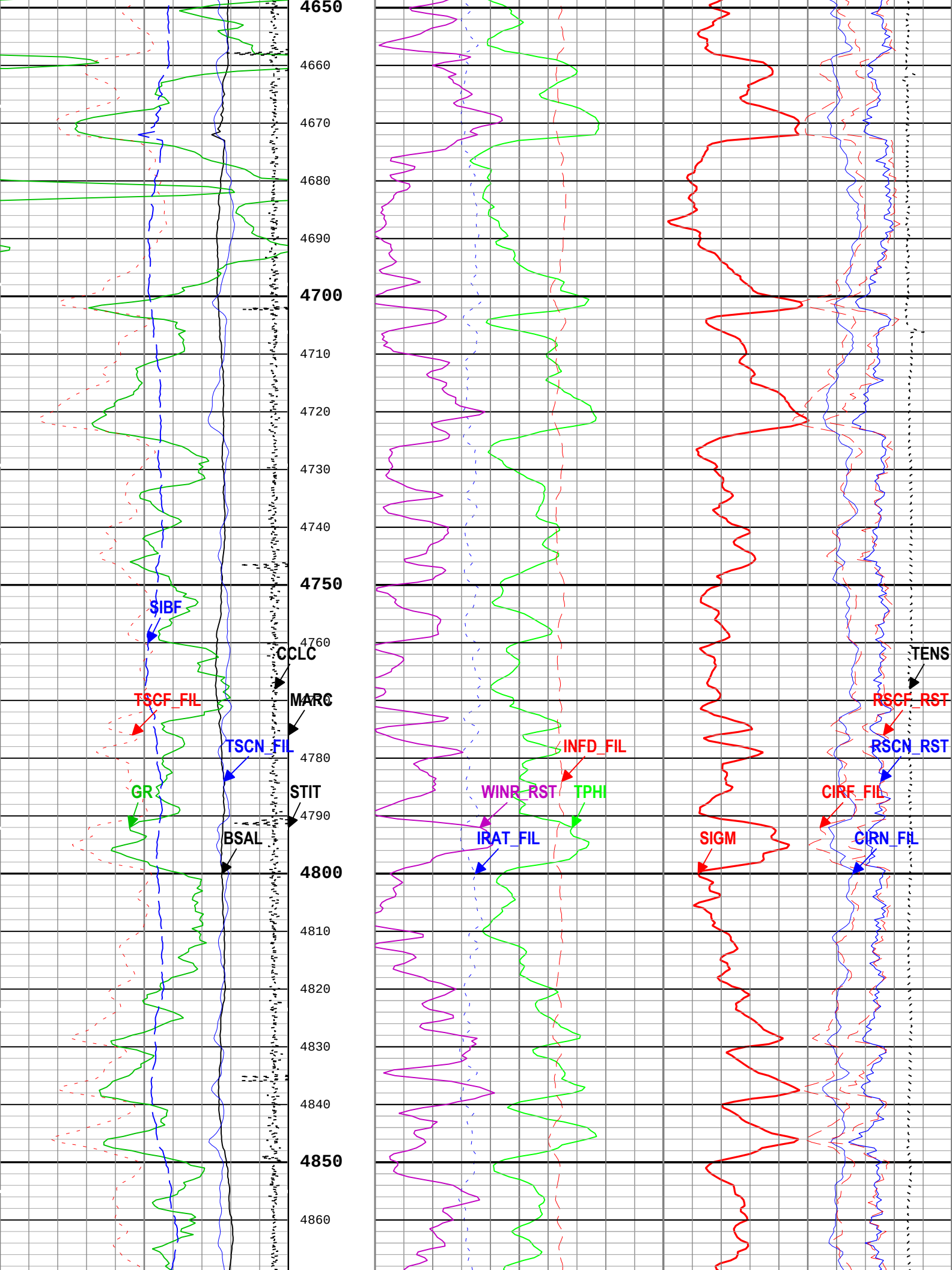
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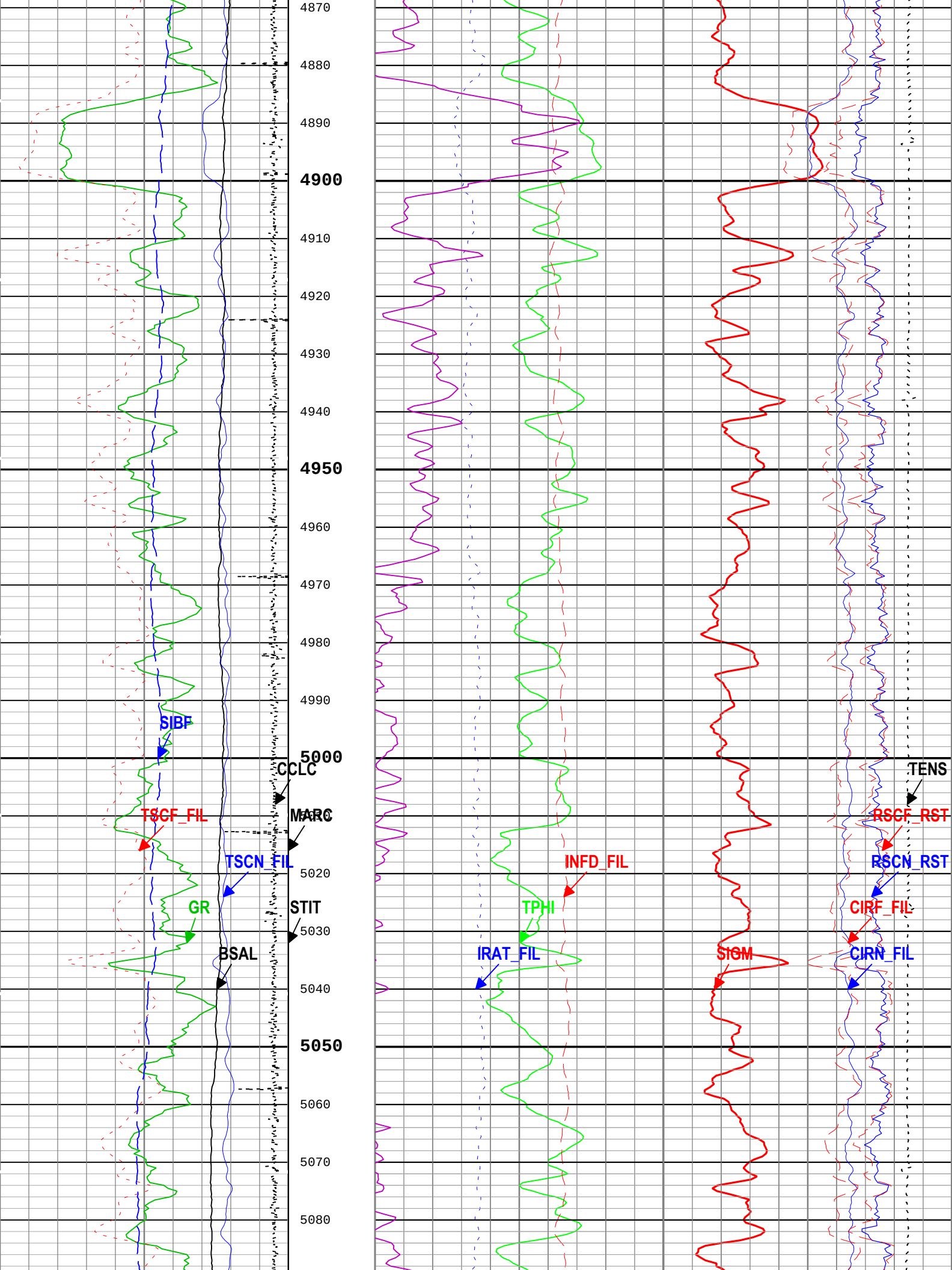
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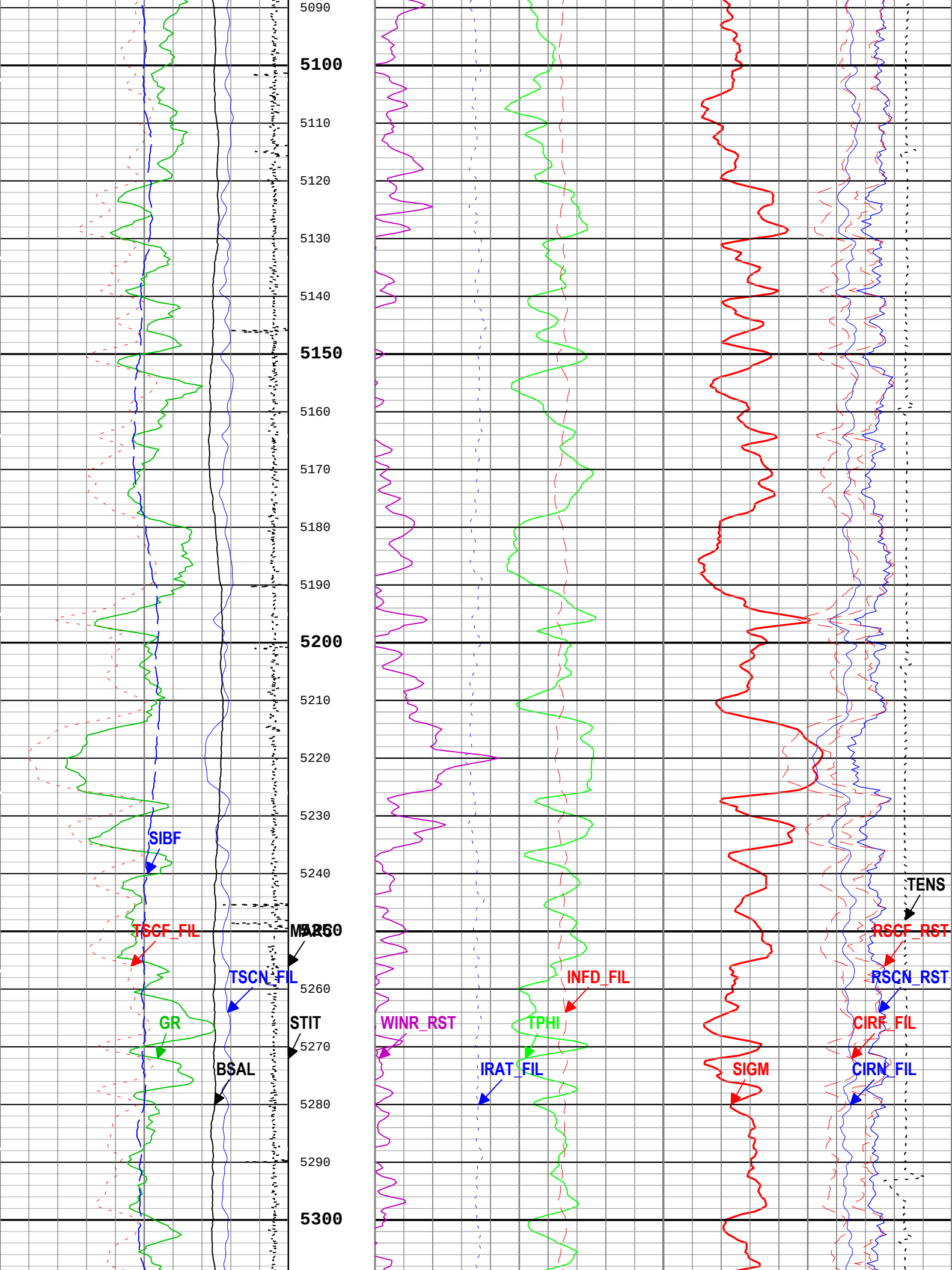
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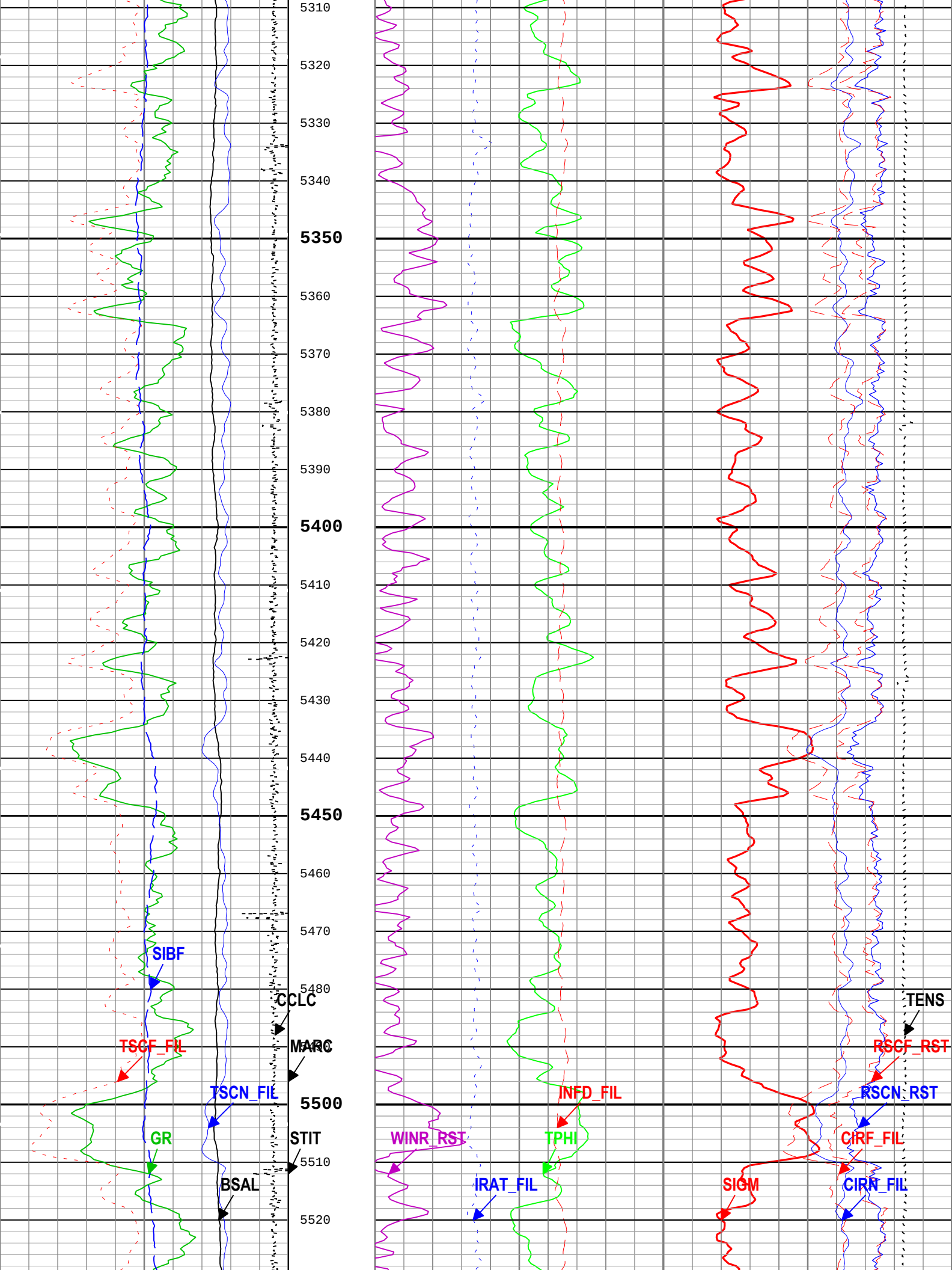
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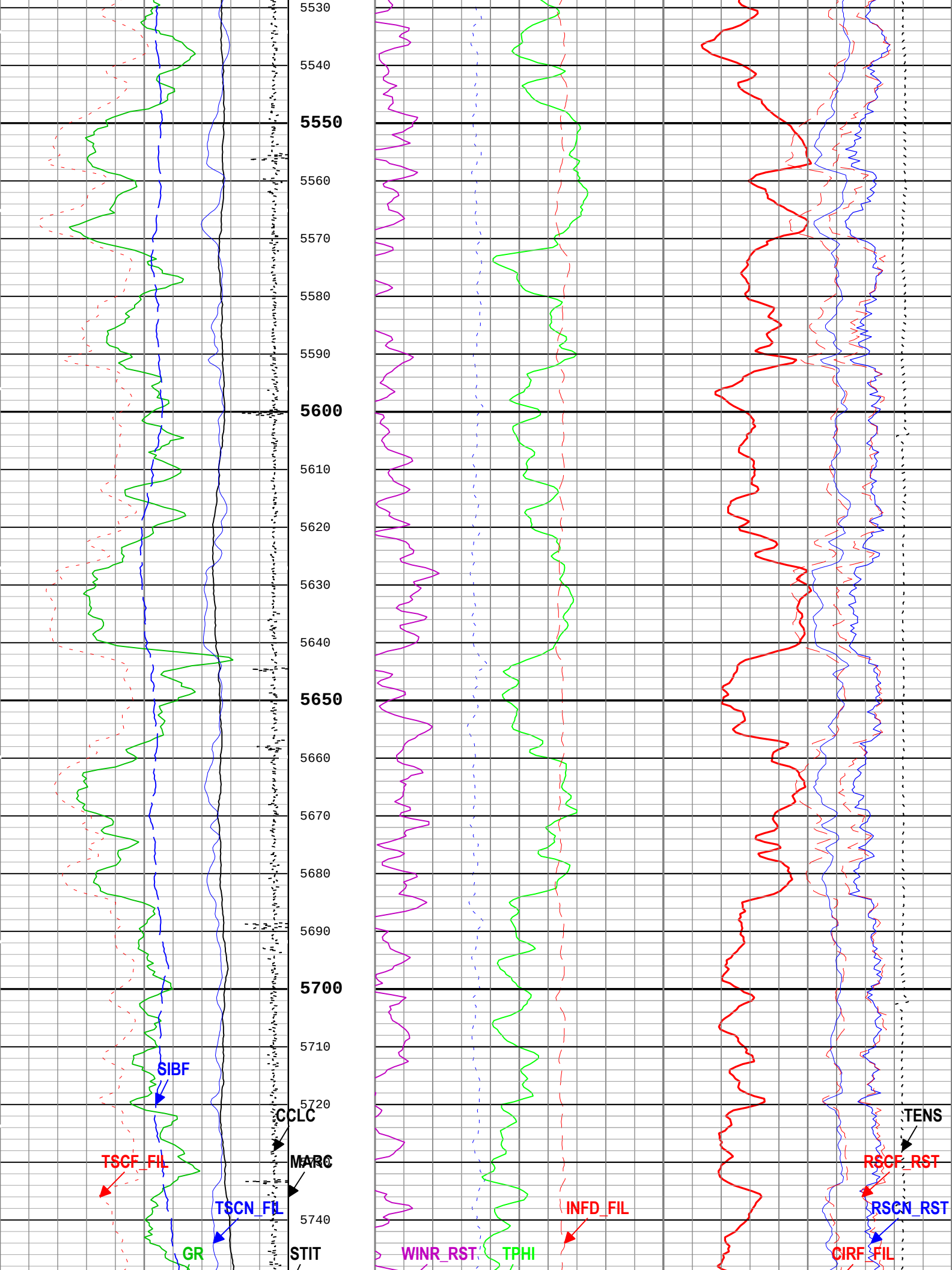
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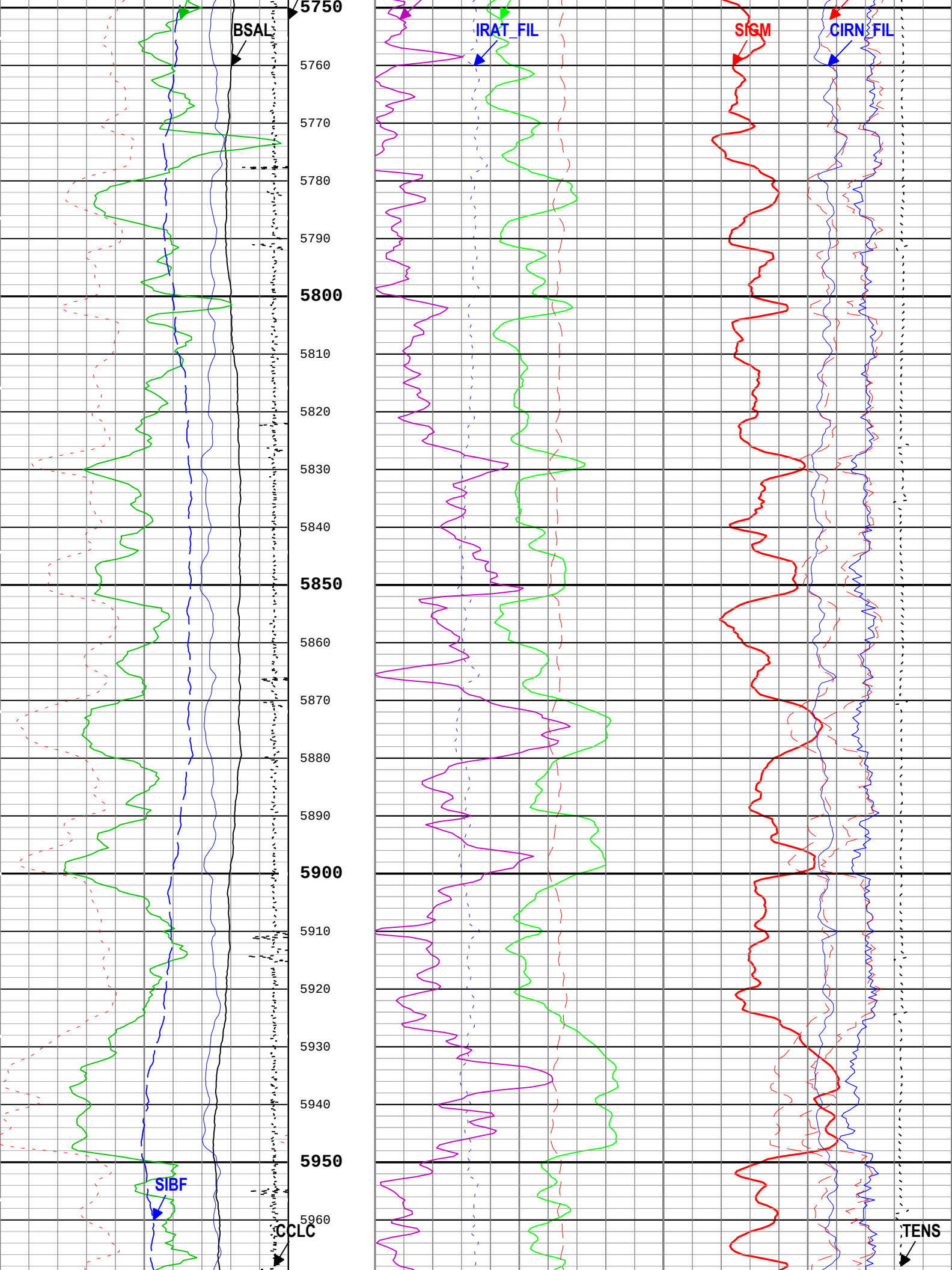
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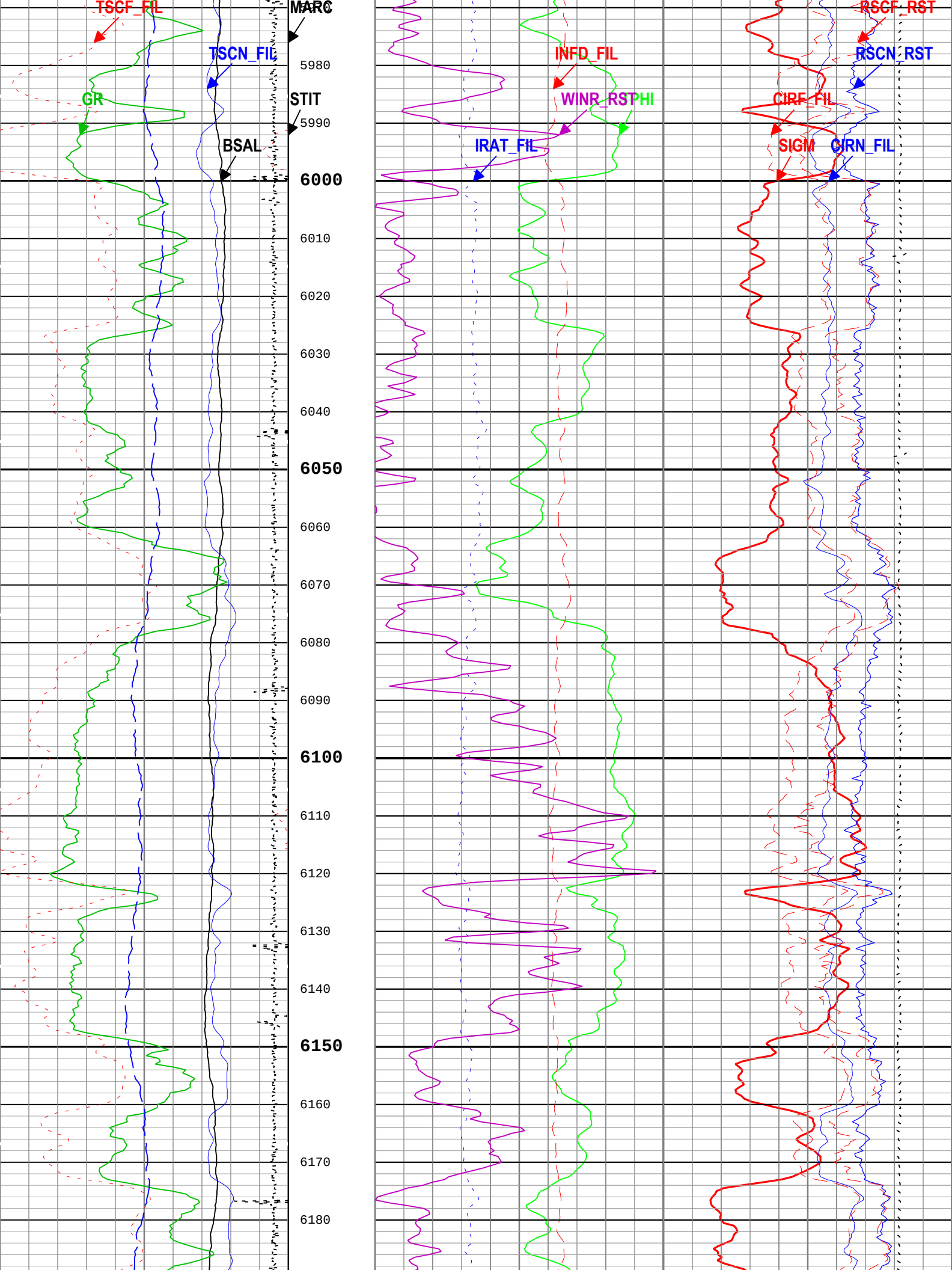
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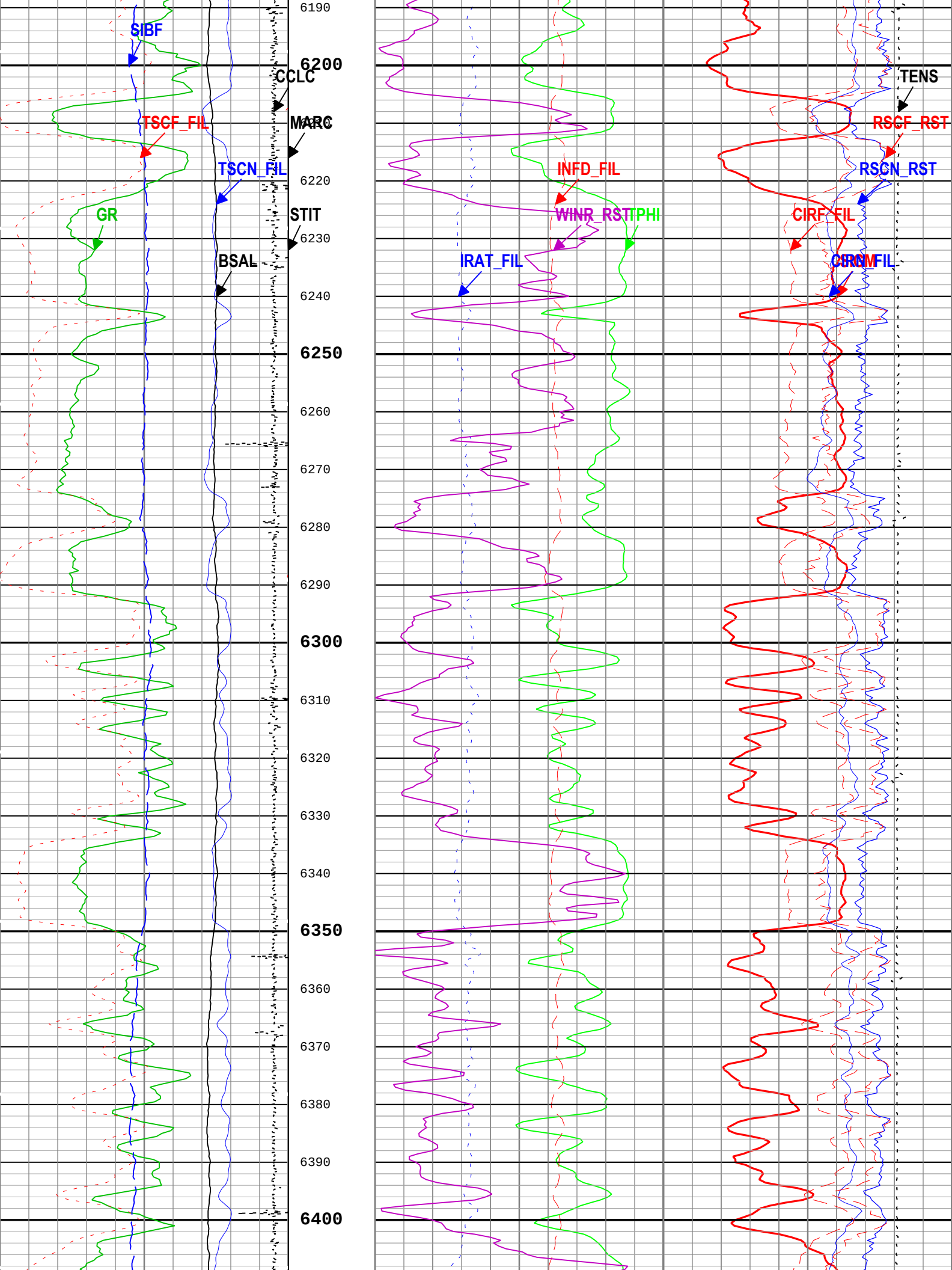
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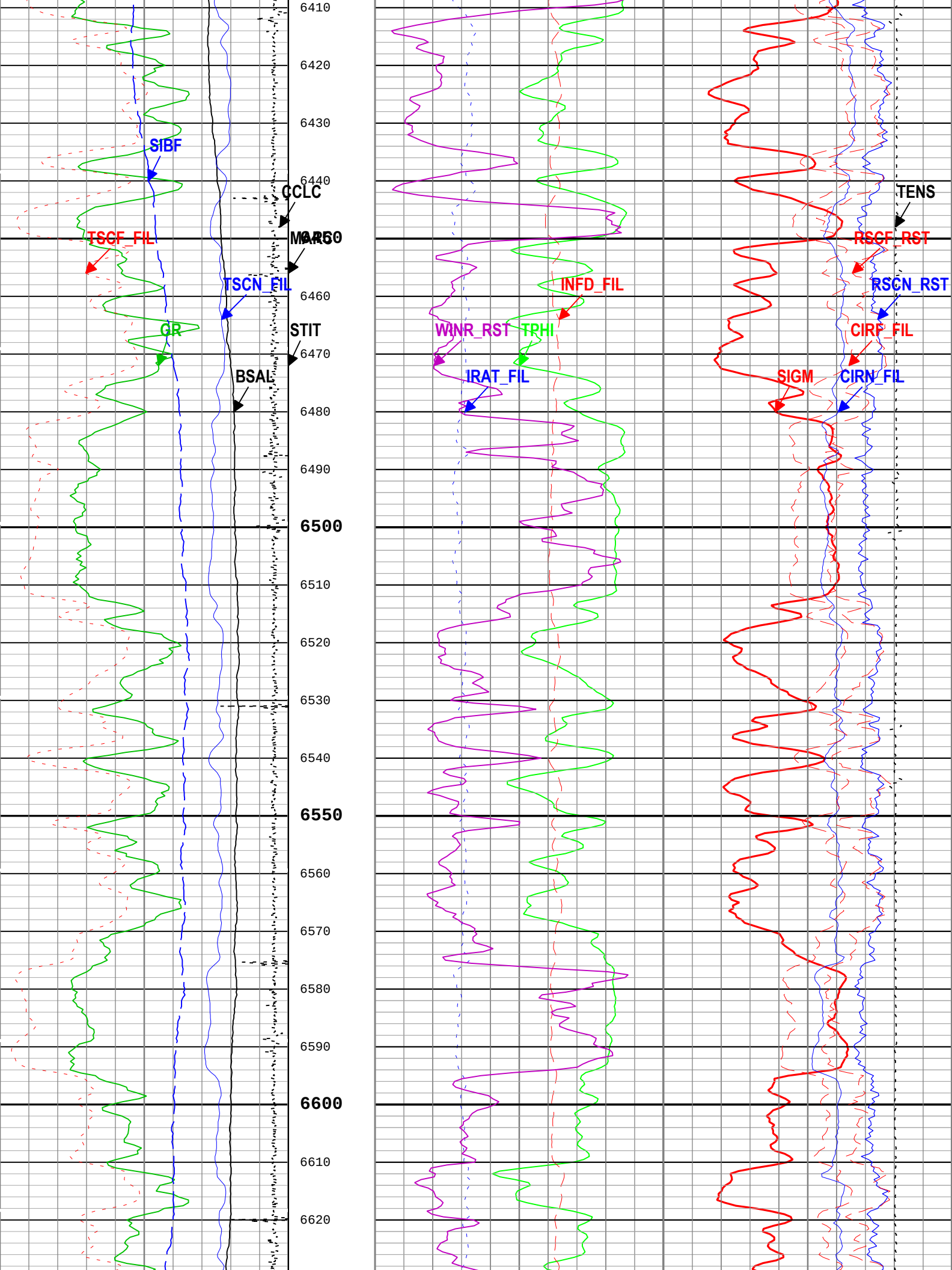
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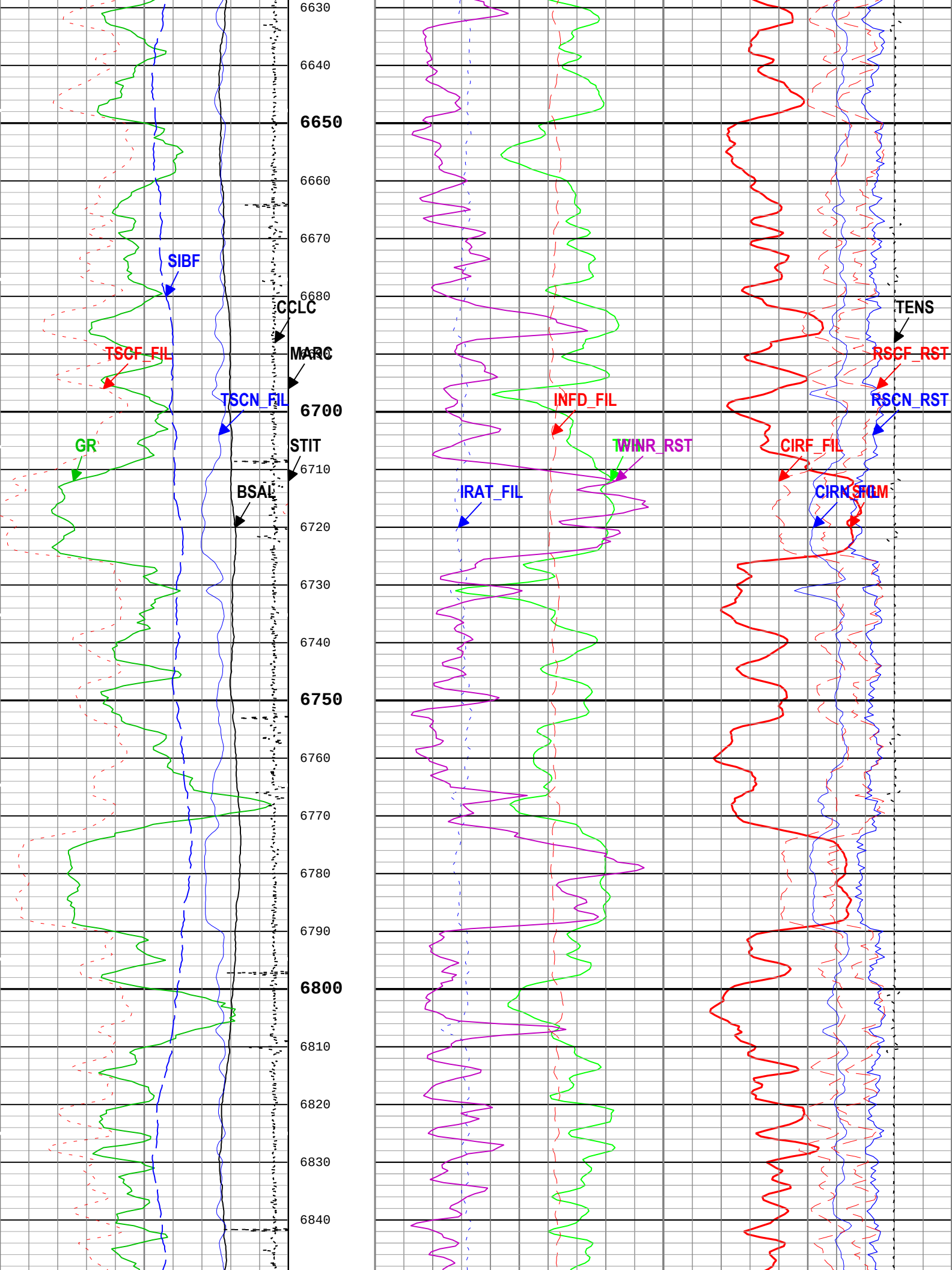
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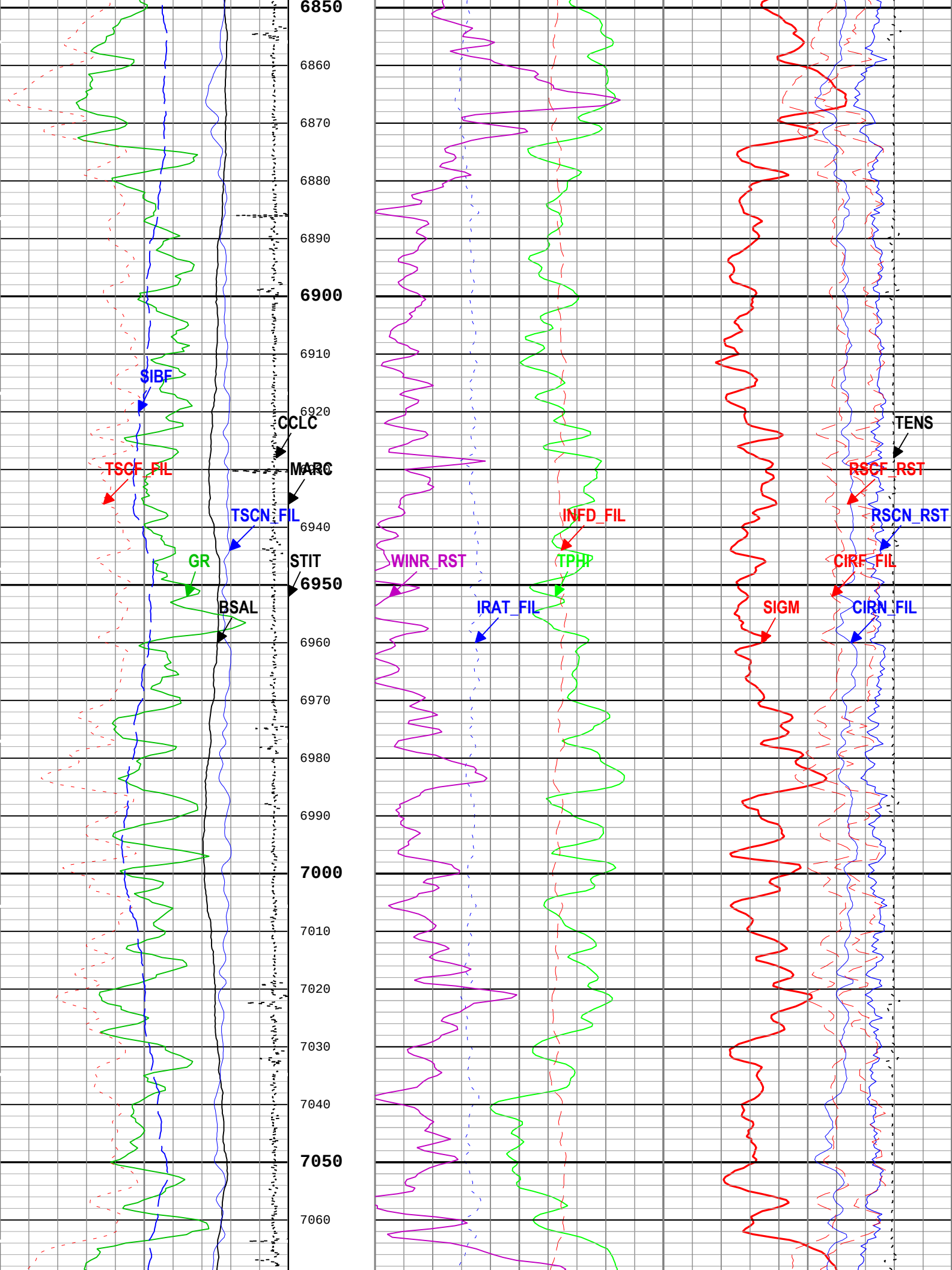
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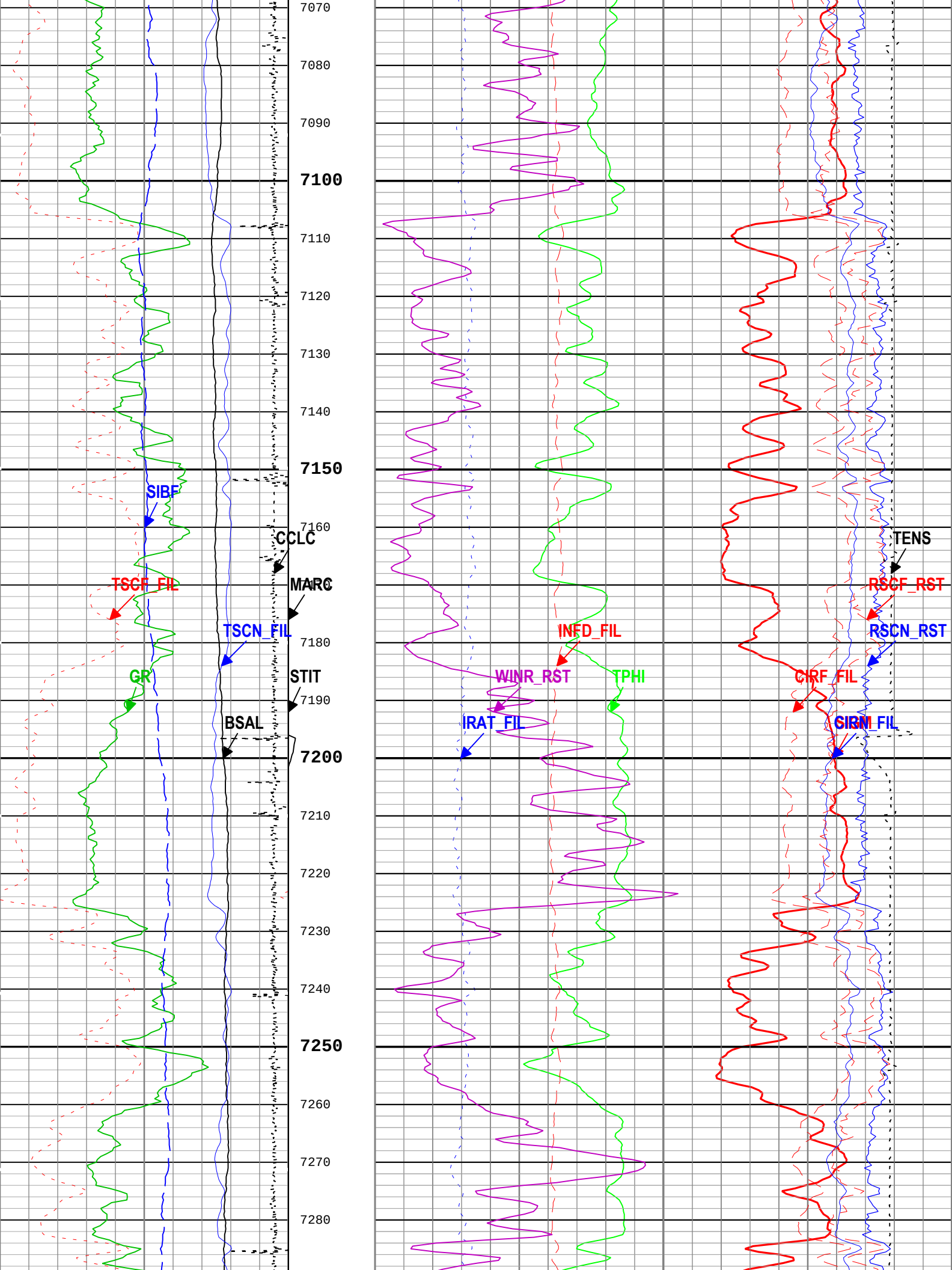
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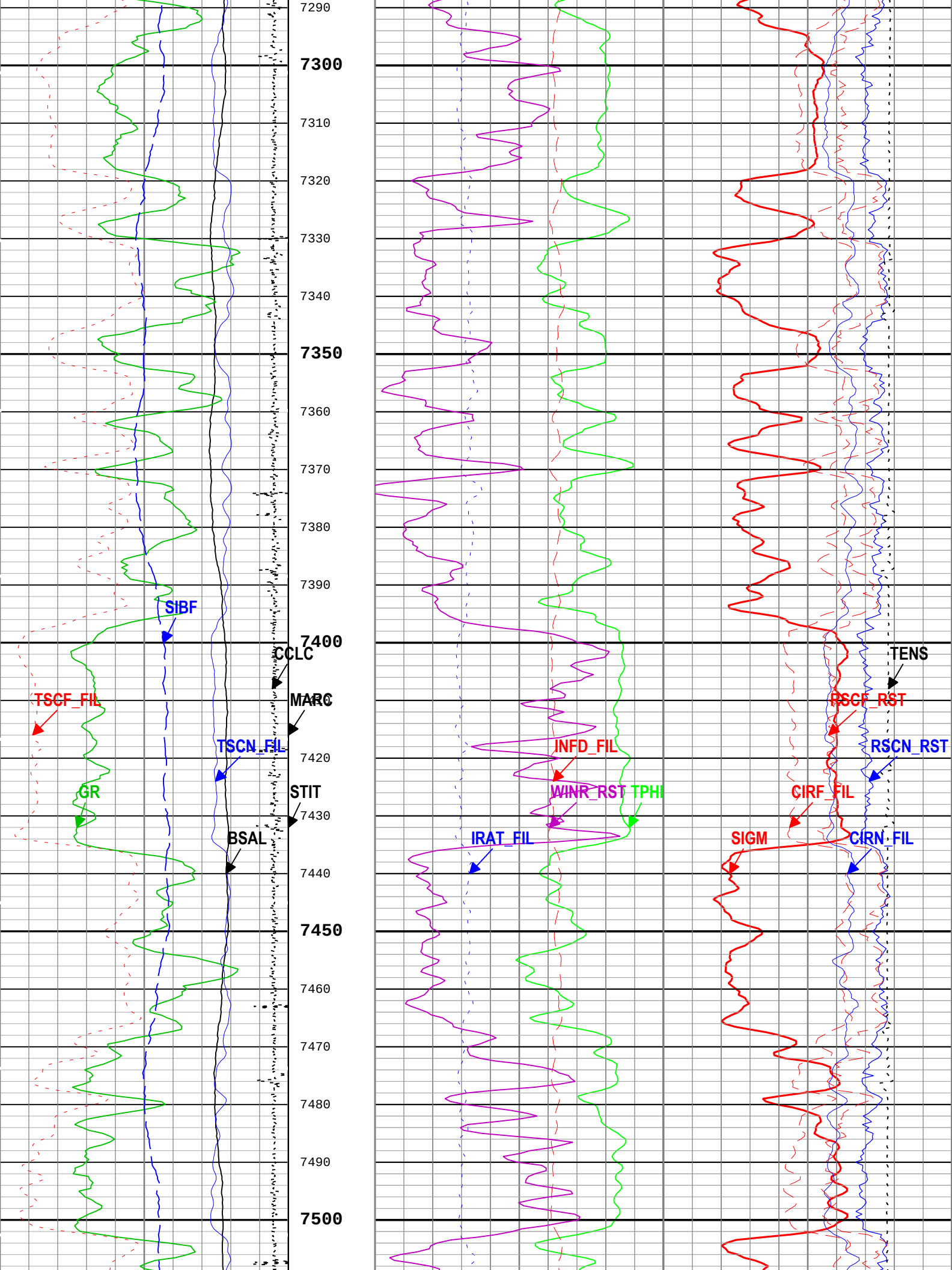
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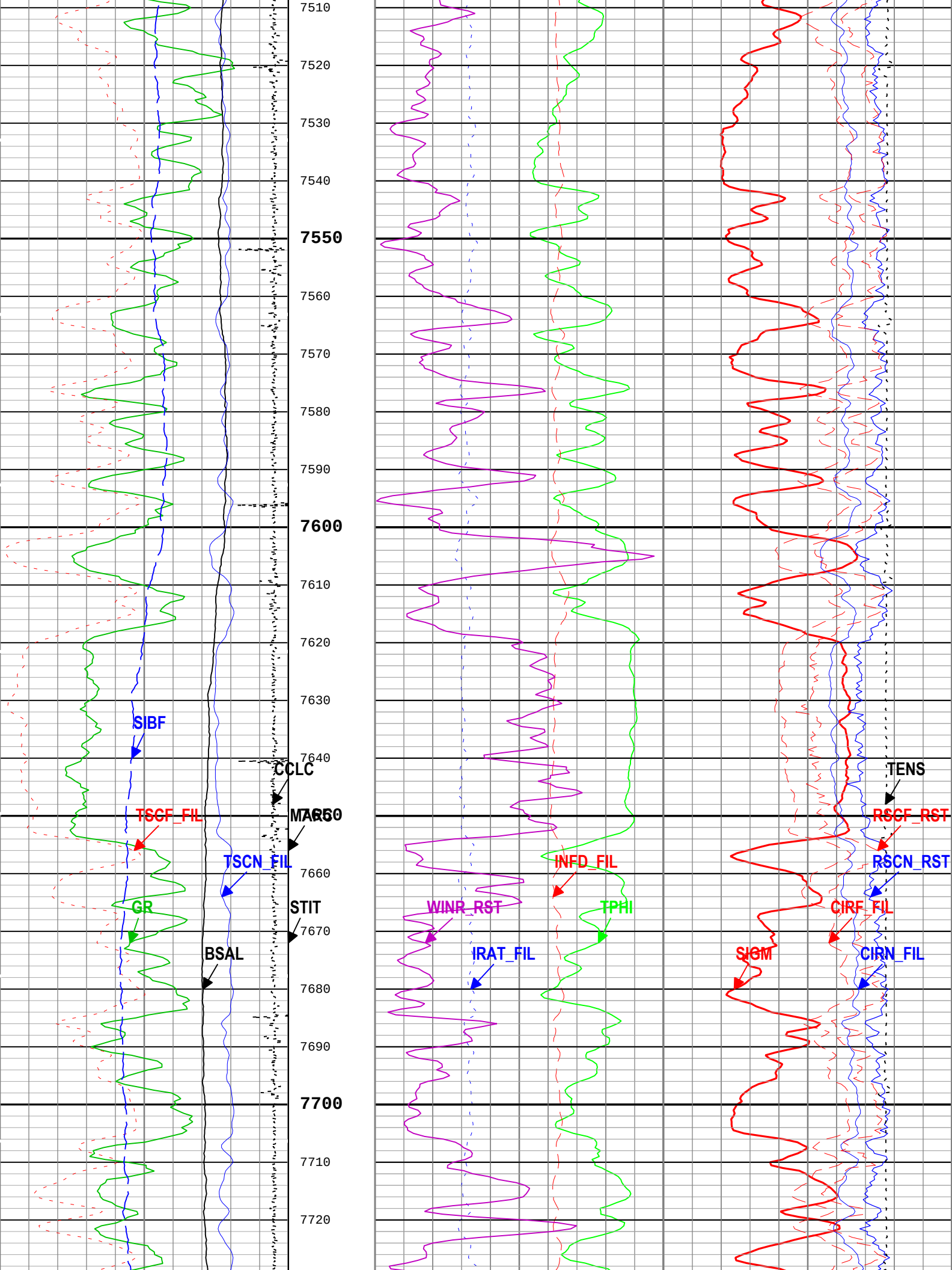
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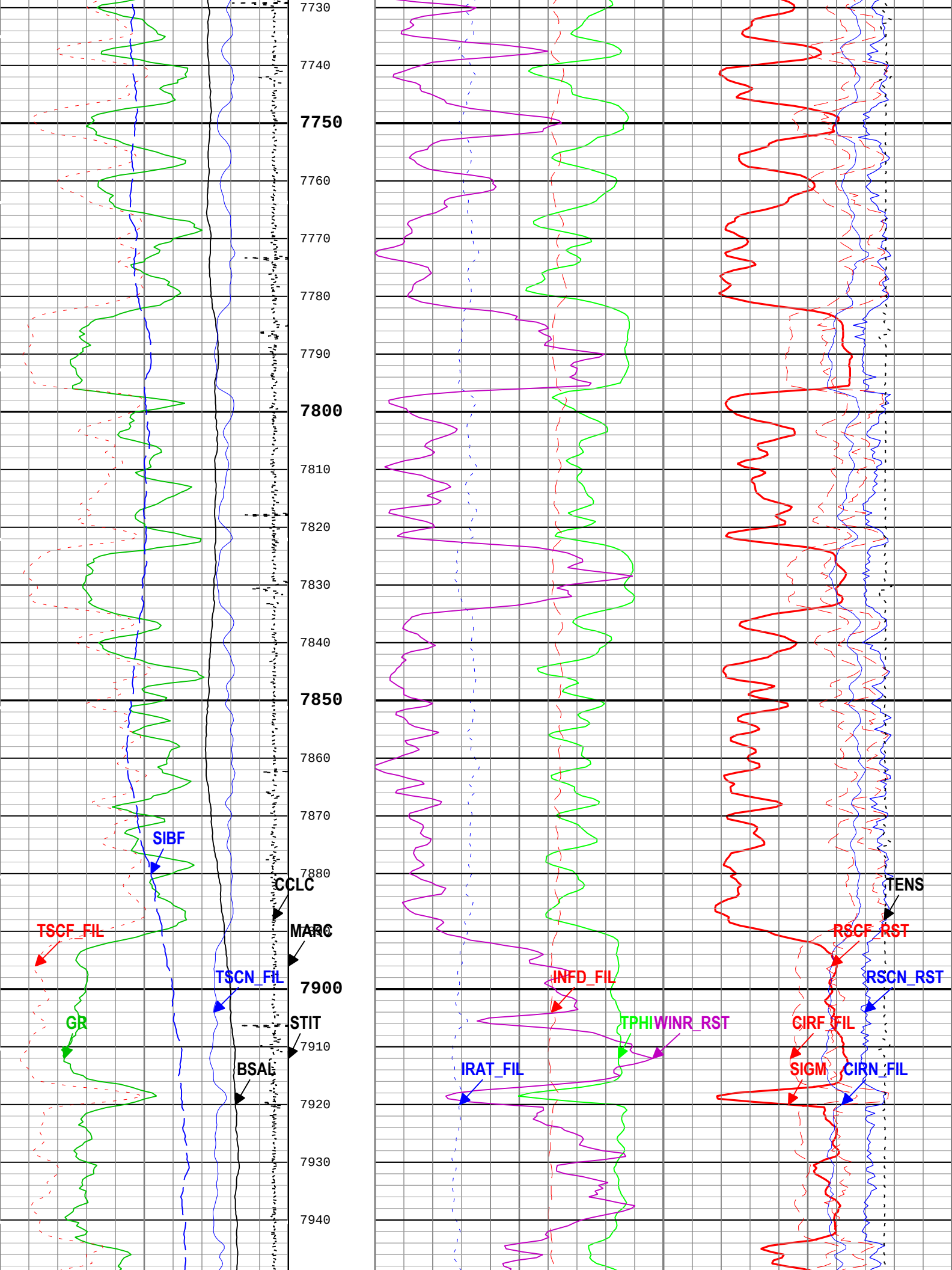
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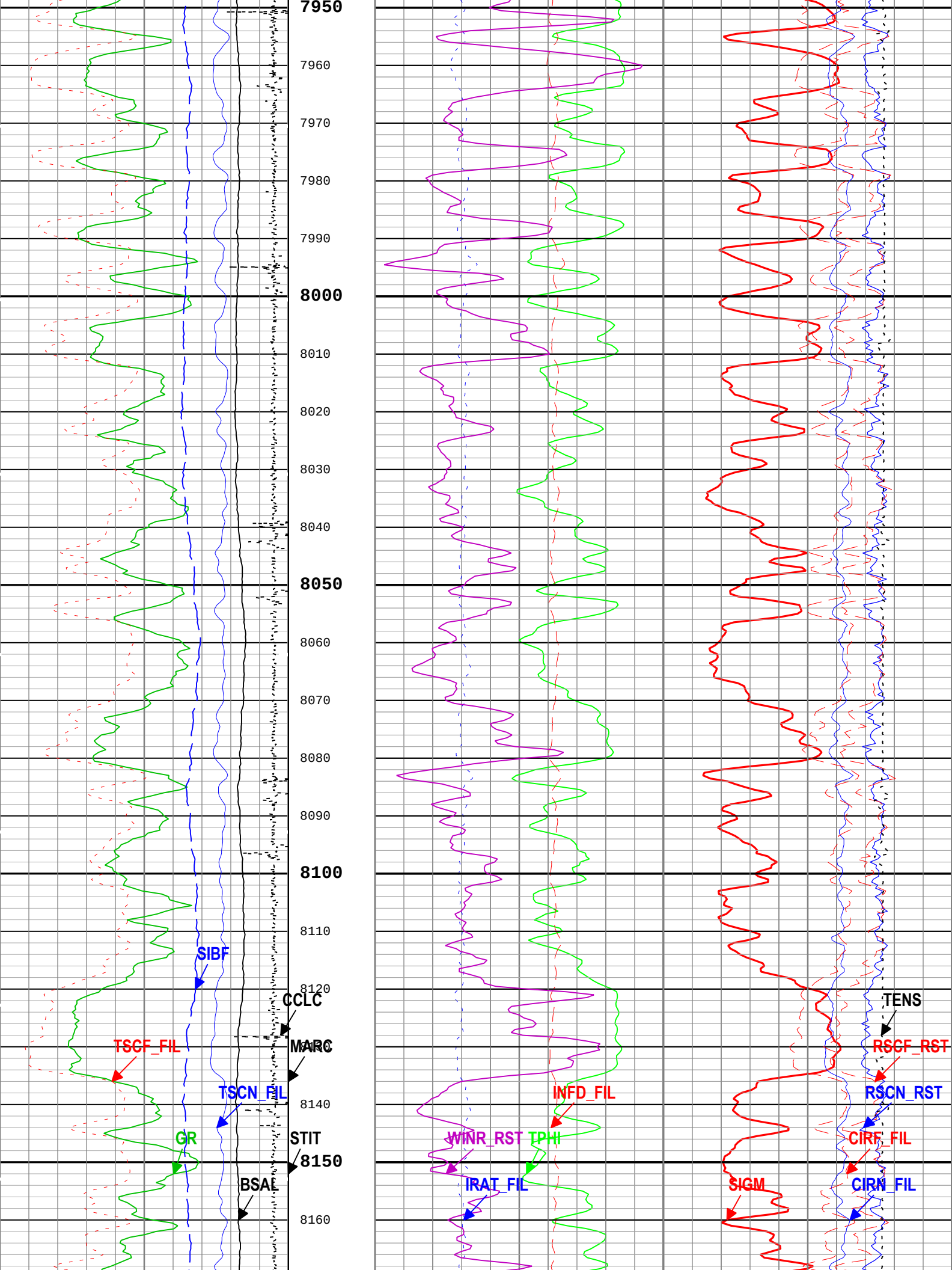
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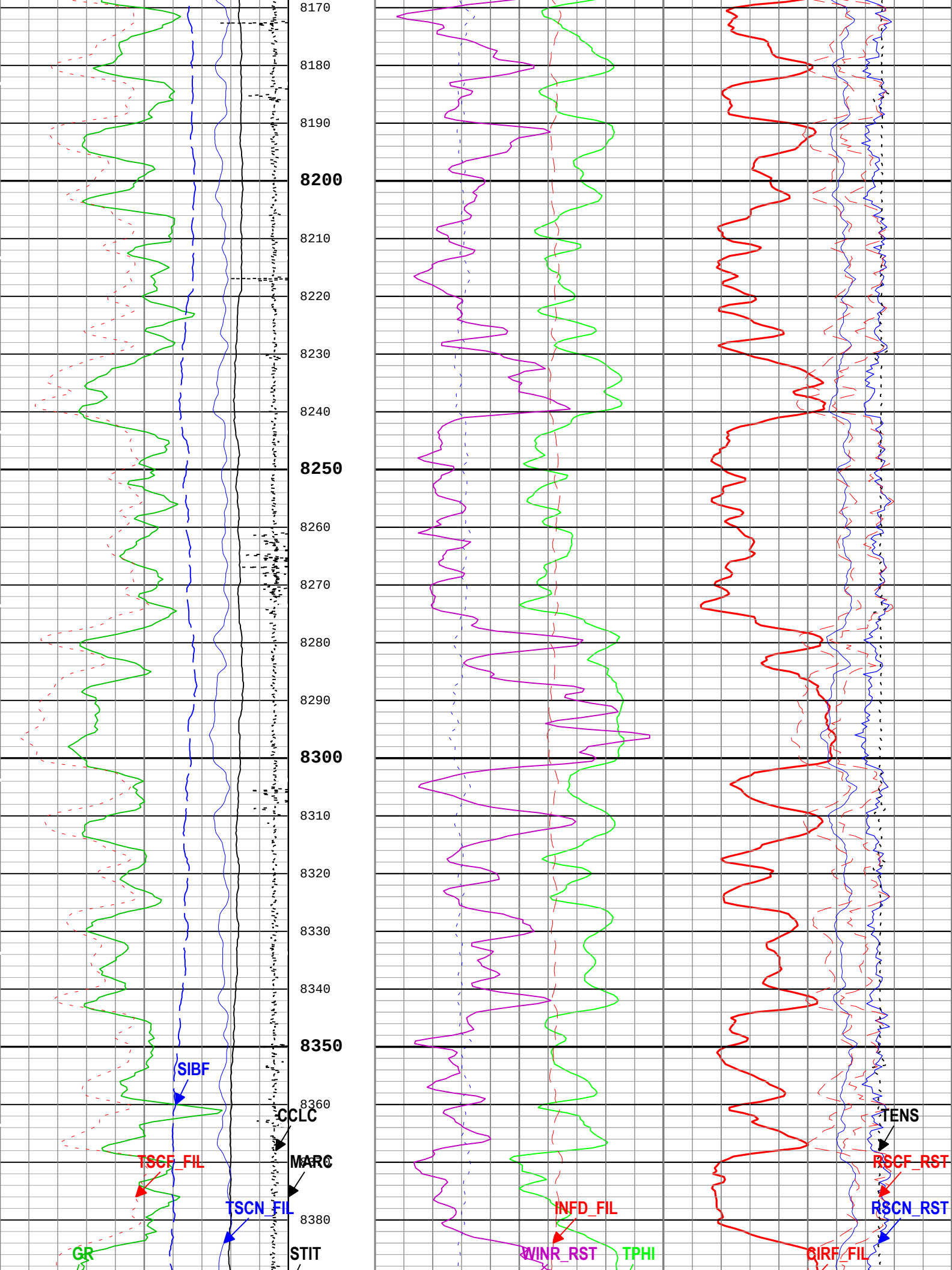
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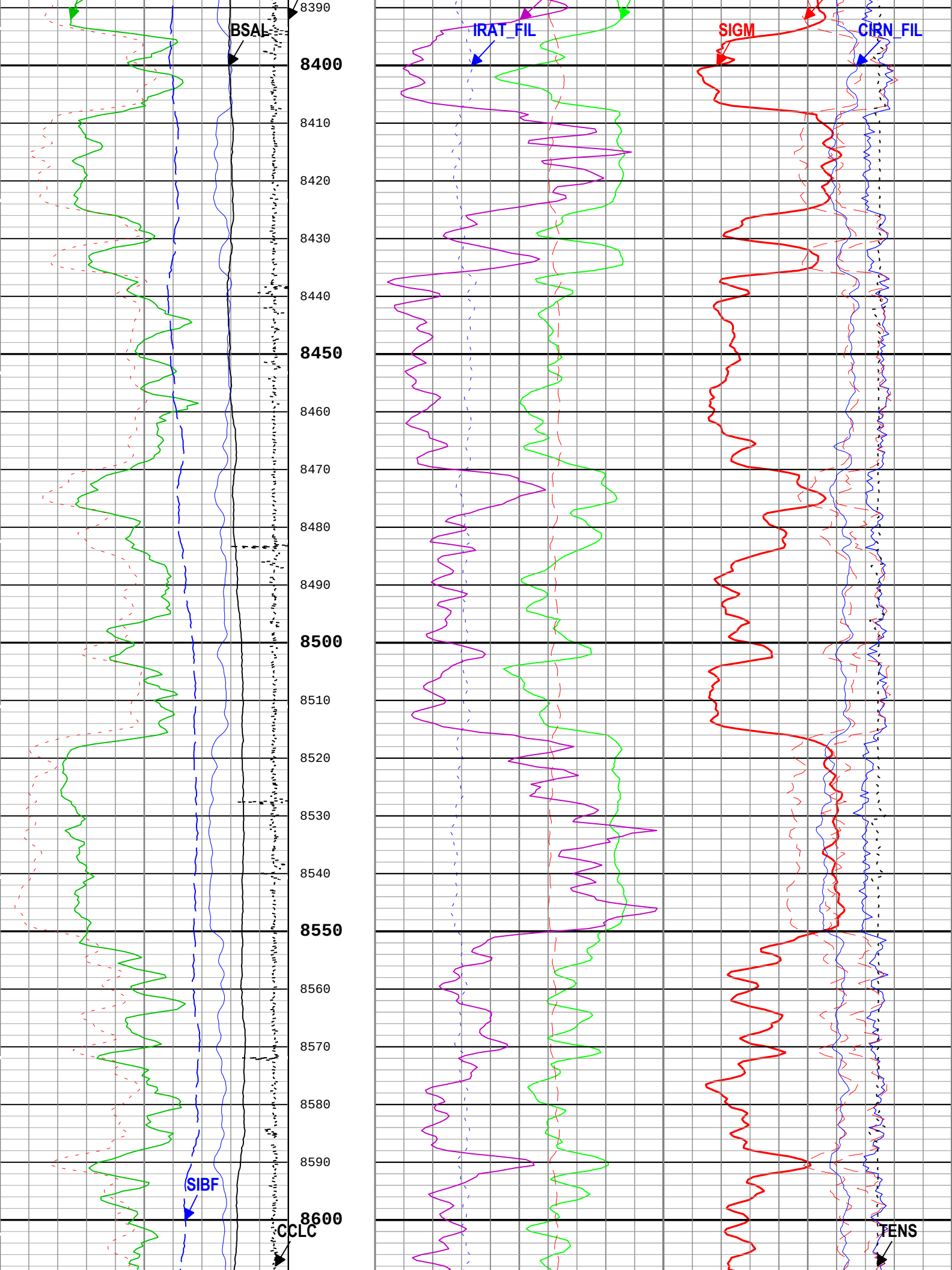
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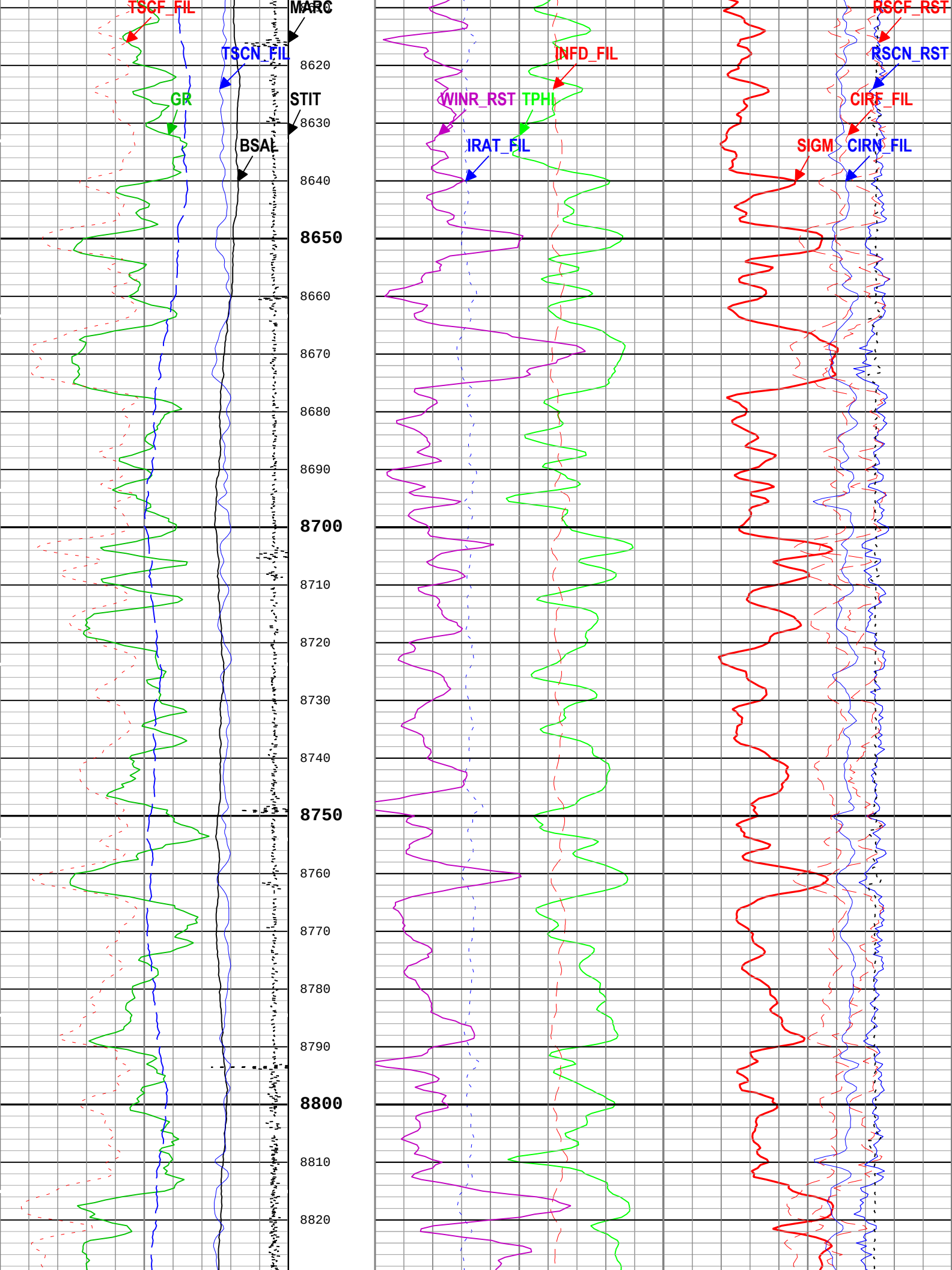
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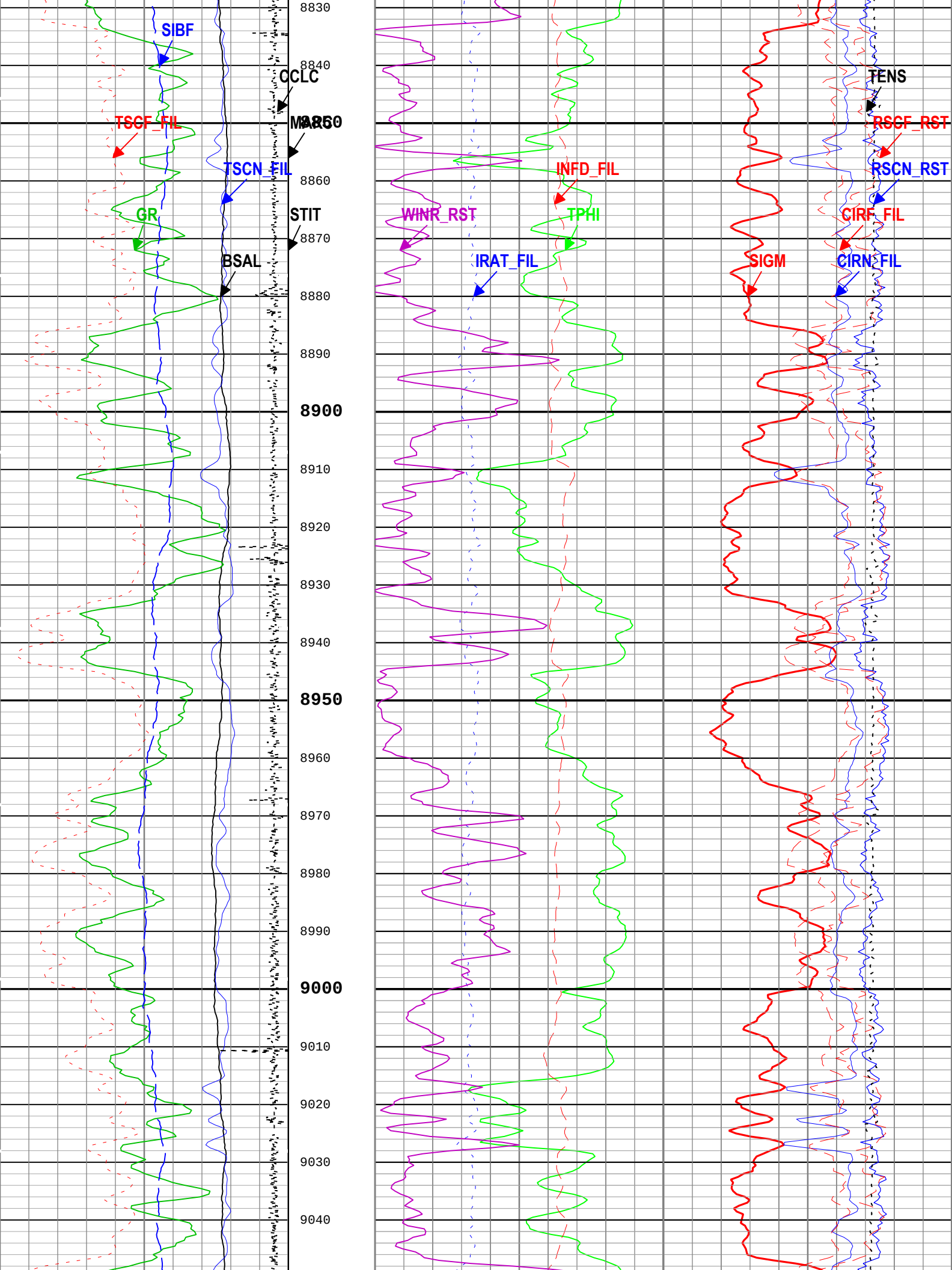
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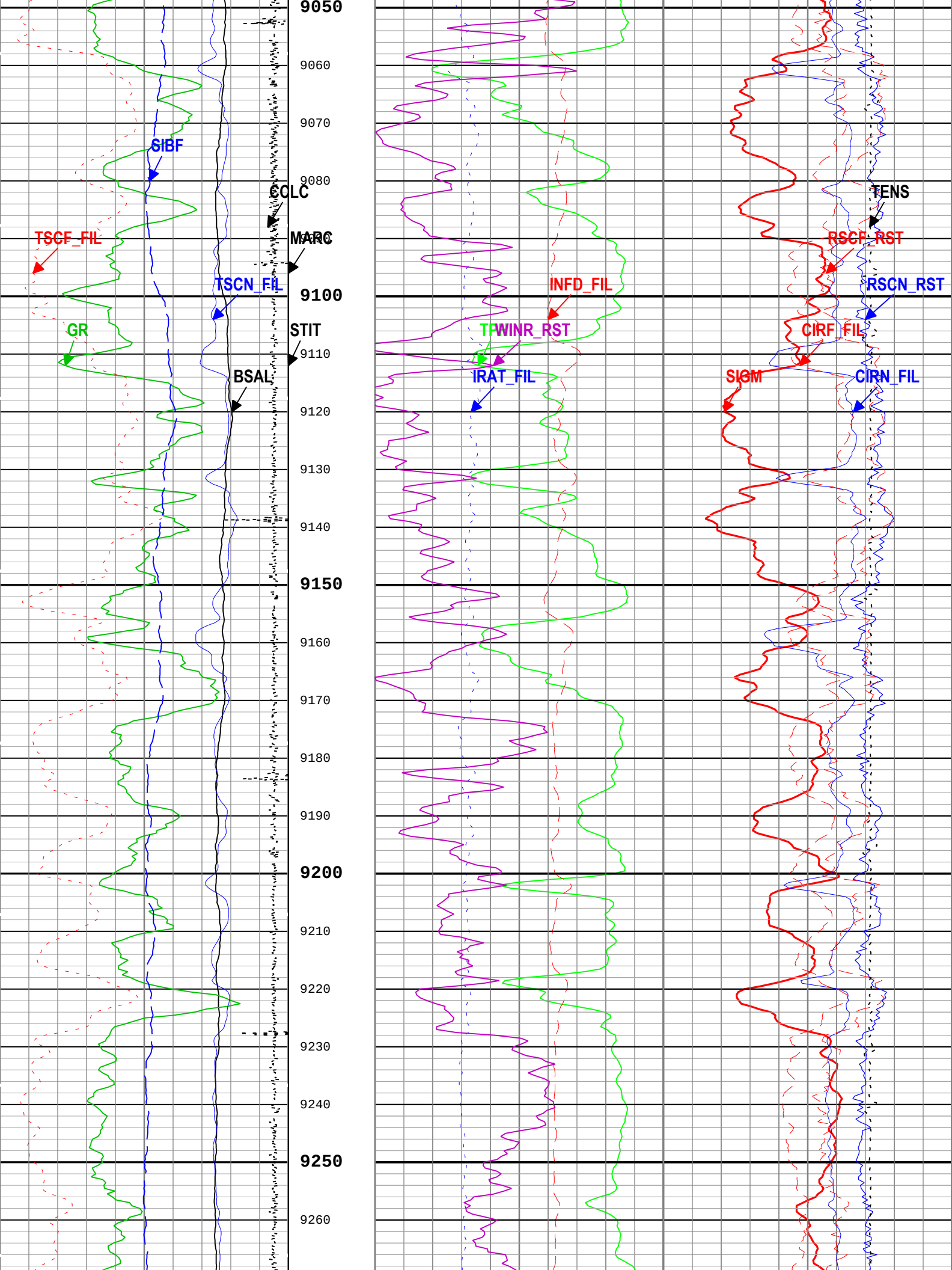
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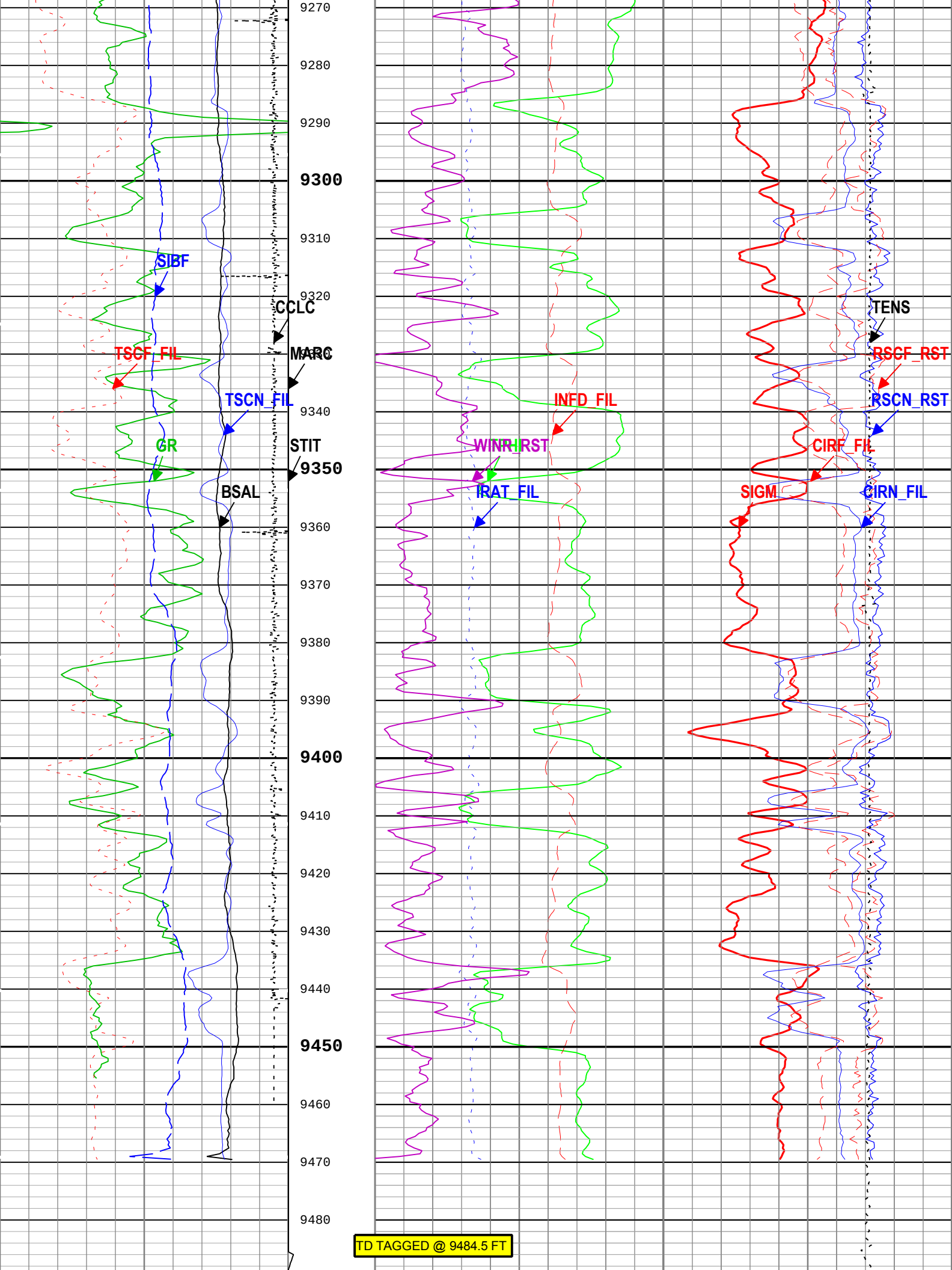
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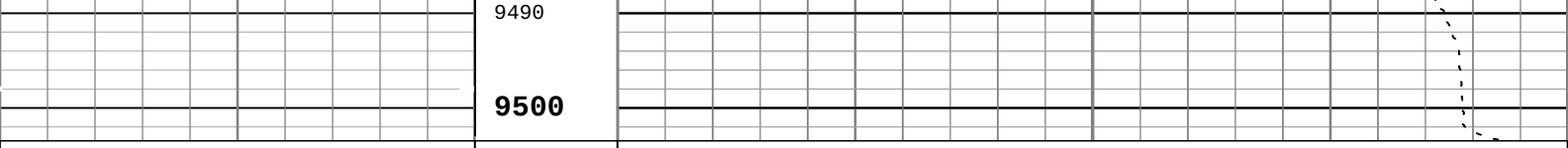


Borehole Salinity (BSAL) RST-C[1]
450 ppk -50

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

Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C[1]
30000 1/s 0

Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C[1]
12000 1/s 0

CCL Computed Amplitude (CCLC) PSTP-A[1]
-19 V 1

Sigma Borehole Fluid (SIBF) RST-C[1]
100 cu 0

Stuck Tool Indicator, Total (STIT)
0 ft 50

Cable Drag From STIA to STIT

Tool_Tot. Drag From D3T to STIT

Minitron Arc Count (MARC) RST-C[1]
0 5

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

Weighted Inelastic Ratio (WINR_RST) RST-C[1]
0 0.4

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

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

Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C[1]
10000 1/s 0

Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C[1]
2.5 0

Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C[1]
5 0

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

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

Cable Tension (TENS)
5000 lbf 0

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

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: 06-Sep-2018 15:25:26

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	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
TD	Total Measured Depth	Borehole	9484.5	ft

ONEDepth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	14.75	2300	2400
BS	8.75	2400	9503.45

All depth are actual.

Tool Control Parameters

ONE: 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	Time Zoned	
RST_DLM	Depth Log Mode	RST-C	Sigma	

ONETime Zoned Parameters

Pass Log[6]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
PCCG	24 dB	06-Sep-2018 10:20:59	06-Sep-2018 11:03:34	9503.45	8316.53
PCCG	36 dB	06-Sep-2018 11:03:34	06-Sep-2018 11:03:54	8316.53	8306.58
PCCG	24 dB	06-Sep-2018 11:03:54	06-Sep-2018 13:17:56	8306.58	4351.54

Pass Log[8]:Up

PCCG	24 dB	06-Sep-2018 13:39:41	06-Sep-2018 15:00:34	4706.18	2211.46

All depth are at tool zero.

ONE

RST Sigma Repeat Pass

Software Version

Acquisition System	Version
Maxwell 2018 SP1	8.1.99839.3100
Application Patch	Wireline_Hotfix-Mandatory-2018SP1_8.1.102865

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[5]:Up	Up	9151.29 ft	9495.23 ft	06-Sep-2018 10:03:45 AM	06-Sep-2018 10:16:25 AM	ON	4.04 ft	No

All depths are referenced to toolstring zero

Log

Company:Caerus Operating LLC Well:NPR 13B-10 596

ONE: Log[5]:Up:S008

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: 06-Sep-2018 15:25:31

TIME_1900 - Time Marked every 60.00 (s)

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

IHV - Integrated Hole Volume every 10.00 (ft3)

IHV - Integrated Hole Volume every 100.00 (ft3)

ICV - Integrated Cement Volume every 10.00 (ft3)

ICV - Integrated Cement Volume every 100.00 (ft3)

Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C

2.5 0

Capture to Inelastic Ratio Far Filtered (CIRF_FIL) RST-C

5 0

Borehole Salinity (BSAL) RST-C

450 ppk -50

Stuck Tool Indicator, Total (STIT)

0 ft 50

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

45 0

Gamma Ray (GR) PSTP-A

0 gAPI 150

Inelastic Ratio Filtered (IRAT_FIL) RST-C

0.75 0

Cable Drag From STIA to STIT

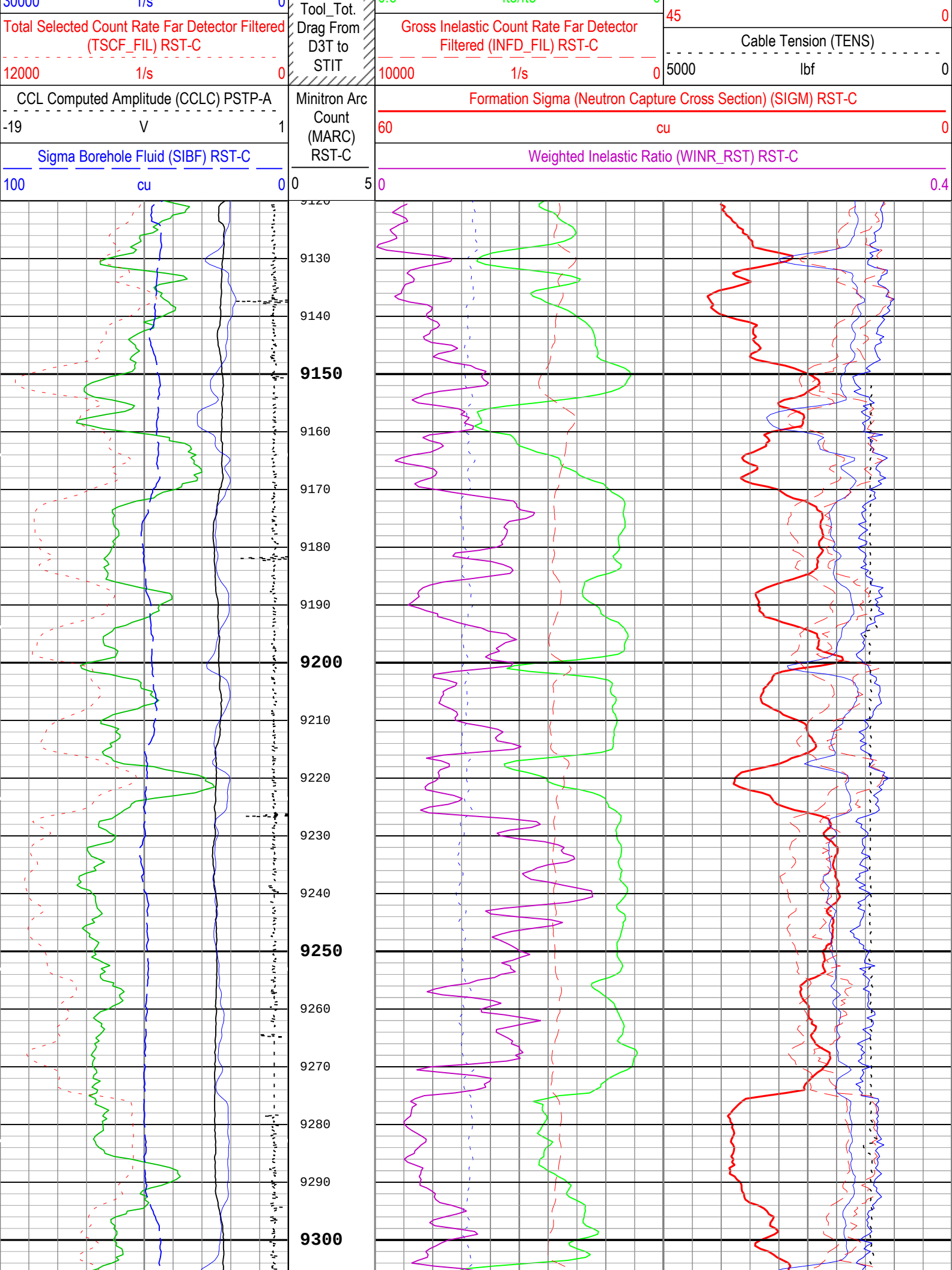
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C

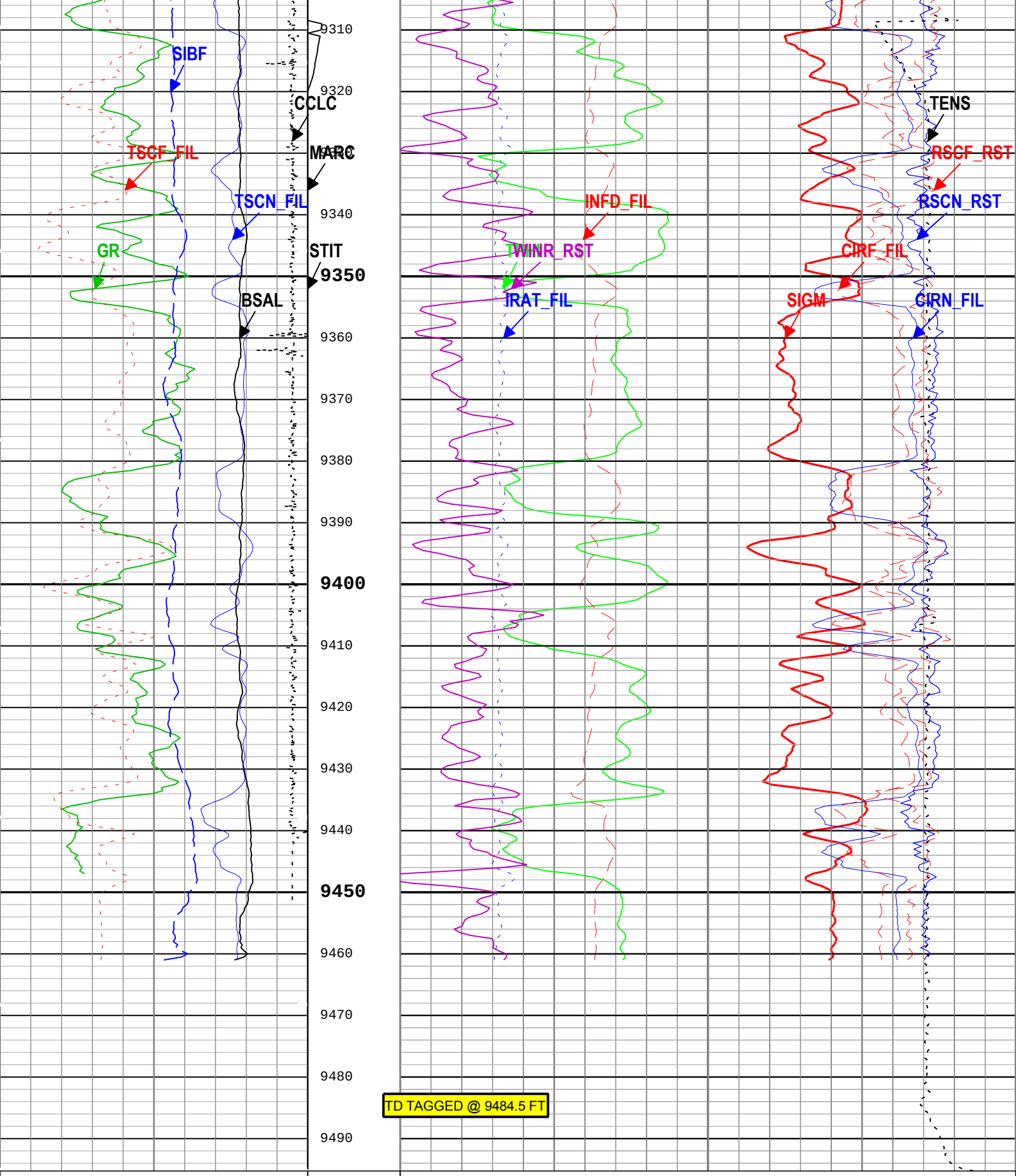
20000 1/s 0

Thermal Decay Porosity (TPHI) RST-C

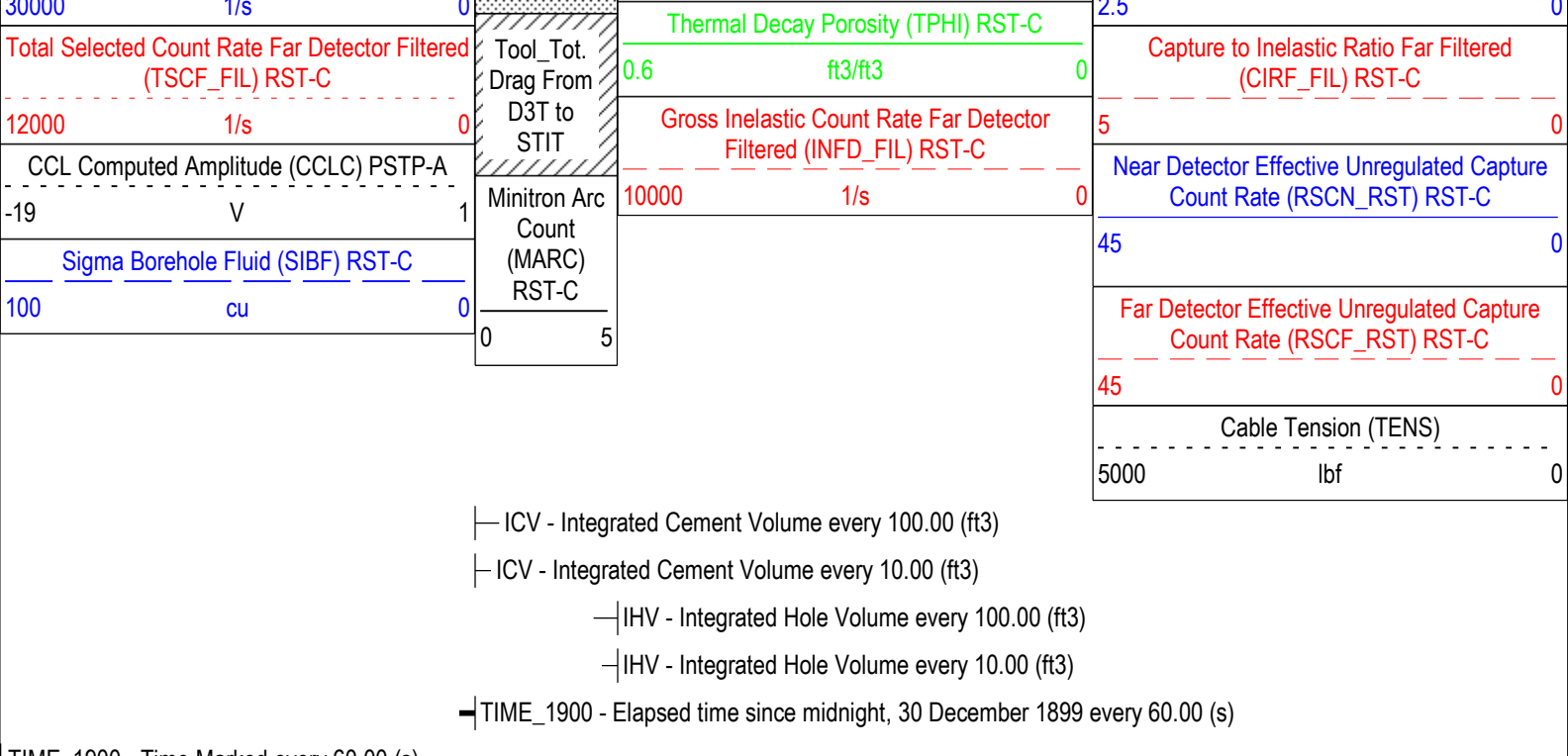
0.6 ft3/ft3 0

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


30000 1/s 0
Total Selected Count Rate Far Detector Filtered (TSCF_FIL) RST-C
12000 1/s 0
Tool_Tot. Drag From D3T to STIT
Gross Inelastic Count Rate Far Detector Filtered (INFD_FIL) RST-C
10000 1/s 0
45 0
Cable Tension (TENS)
5000 lbf 0
CCL Computed Amplitude (CCLC) PSTP-A
-19 V 1
Minitron Arc Count (MARC) RST-C
0 5
Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C
60 cu 0
Sigma Borehole Fluid (SIBF) RST-C
100 cu 0
Weighted Inelastic Ratio (WINR_RST) RST-C
0 0.4
9130
9140
9150
9160
9170
9180
9190
9200
9210
9220
9230
9240
9250
9260
9270
9280
9290
9300



Borehole Salinity (BSAL) RST-C 450 ppk -50	Stuck Tool Indicator, Total (STIT) 0 ft 50	Formation Sigma (Neutron Capture Cross Section) (SIGM) RST-C 60 cu 0
Gamma Ray (GR) PSTP-A 0 gAPI 150		Weighted Inelastic Ratio (WINR_RST) RST-C 0 0.4
Total Selected Count Rate Near Detector Filtered (TSCN_FIL) RST-C	Cable Drag From STIA to STIT	Inelastic Ratio Filtered (IRAT_FIL) RST-C 0.75 0
		Capture to Inelastic Ratio Near Filtered (CIRN_FIL) RST-C



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: 06-Sep-2018 15:25:31

Channel Processing Parameters

ONE: 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	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
TD	Total Measured Depth	Borehole	9484.5	ft

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	24 dB	
RST_DLM	Depth Log Mode	RST-C	Sigma	

Company:	Caerus Operating LLC
Well:	NPR 13B-10 596
Field:	NPR
County:	Garfield
State:	Colorado

Schlumberger

Cement Bond Log
RST Sigma Log
Gamma Ray - Collar Locator Log