

Company: Vecta Oil & Gas LTD

Well: Snowmass 32-32

Field: Wildcat

County: Cheyenne State: Colorado

Platform Express

Sonic

County:	Cheyenne
Field:	Wildcat
Location:	SHL: 2566' FNL x 2404' FEL
Well:	Snowmass 32-32
Company:	Vecta Oil & Gas LTD
Location:	
SHL: 2566' FNL x 2404' FEL	Elev.: K.B. 4539.50 ft G.L. 4523.00 ft D.F. 4538.50 ft
Permanent Datum:	Ground Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
API Serial No.	Section: 32
05-017-07771-0000	Township: 12S
	Range: 47W

Logging Date	04-Oct-2013
Run Number	1
Depth Driller	5761.00 ft
Schlumberger Depth	5762.00 ft
Bottom Log Interval	5762.00 ft
Top Log Interval	433.00 ft
Casing Driller Size @ Depth	8.625 in @ 438.00 ft
Casing Schlumberger	433 ft
Bit Size	7.875 in
Type Fluid In Hole	Water
Density	9.2 lbm/gal
Fluid Loss	5.6 cm3
PH	10
Source of Sample	Active Tank
RM @ Meas Temp	1.32 ohm.m @ 70 degF
RMF @ Meas Temp	0.9 ohm.m @ 70 degF
RMC @ Meas Temp	1.8 ohm.m @ 70 degF
Source RMF	Calculated
RM @ BHT	0.46 @ 212
RMF @ BHT	0.32 @ 212
Max Recorded Temperatures	160 degF
Circulation Stopped	03-Oct-2013 21:45:00
Logger on Bottom	04-Oct-2013 03:15:38
Unit Number	9108
Recorded By	Danijl Kholin
Witnessed By	Matt Goobsby

Disclaimer

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Contents

- Header
- Disclaimer
- Contents
- Well Sketch
- Borehole Size/Casing/Tubing Record
- Remarks and Equipment Summary
- Depth Summary
- 1 5" Main Pass
 - Integration Summary
 - Software Version
 - Composite Summary
 - Log (EMD Sonic DSST)
 - Parameter Listing
- Tail

Well Sketch

Driller Depth

0.00 ft

438.00 ft

Casing 8.625in
24lbm/ft

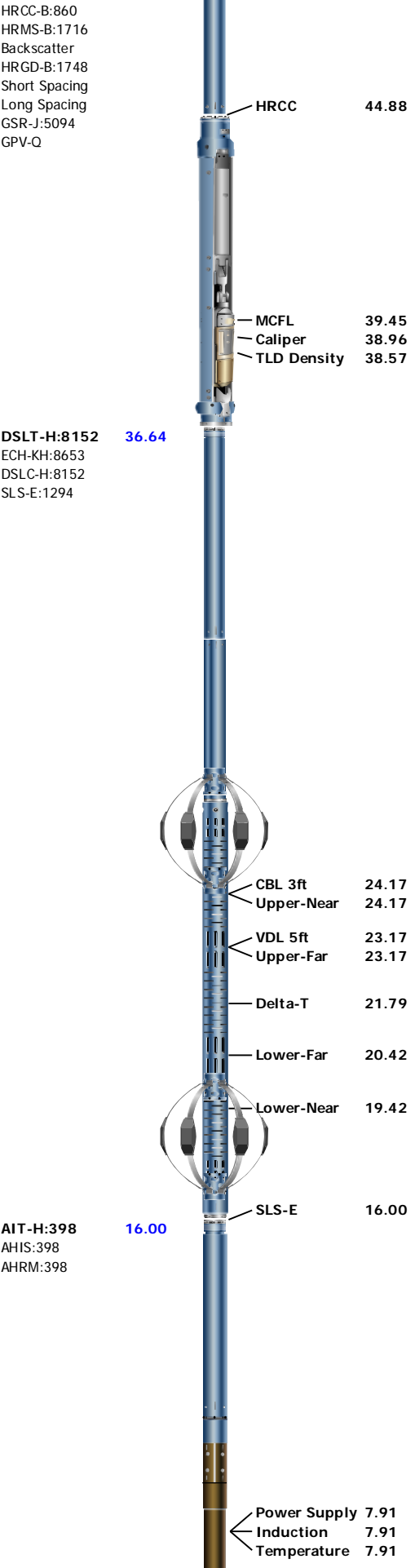


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	7.875					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	5761					
Bottom Logger (ft)	5762					
Casing						
Size (in)	8.625					
Weight (lbm/ft)	24					
Inner Diameter (in)	8.097					
Grade	N/A					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	438					
Bottom Logger (ft)	433					

Remarks and Equipment Summary

1: Toolstring				1: Remarks	
Equip name LEH-QT:2429 LEH-QT:2429	Length 64.21		MP name	Offset	Toolstring run as per toolsketch
					Matrix: Limestone 2.71 g/cc
					Crew: Aaron Weber, Gary Lapp
DTC-H:8485 ECH-KC:9562 DTC-H:8485	61.29		CTEM HV	60.39 0.00	
HGNS-B:863 HGNH:2883 NPV-N NSR-F:5069 HMCA-B HACCZ-B:452 HGNS-B:863	58.29		ToolStatus	58.29	
			TelStatus	58.29	
			Temperature	58.26	
			GR	57.55	
HDRS-B:1716 ECH-MEB:1866	48.88		CNL Porosity	51.21	
			HGNS	48.88	
			HMCA	48.88	
			Acceleromete r	0.00	



 <div> <div>SP</div> <div>Mud Resistivity</div> <div>Head Tension</div> <div>TOOL_ZERO</div> </div> <div> <div>0.08</div> <div>0.00</div> </div> <p>Lengths are in ft Maximum Outer Diameter = 7.000 in Line: Sensor Location, Value: Gating Offset All measurements are relative to TOOL_ZERO</p>		
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Depth Summary			
	1		
Depth Measuring Device			
Type	IDW-B		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0		
Wheel Correction 2	0		
Tension Device			
Type	CMTD-B/A		
Serial Number	147		
Calibration Date	03-Sep-2013		
Calibrator Serial Number	100818		
Number of Calibration Points	10		
Calibration Root Mean Square Error	18		
Calibration Peak Error	31		
Logging Cable			
Type	7-46A-XS		
Serial Number	U711080		
Length	24000.00 ft		
Conveyance Type	Wireline		
Rig Type	Land		
1: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	
Rig Up Length At Bottom		Z-chart used as Secondary Depth Control	
Rig Up Length Correction			
Stretch Correction	4.63 ft		
Tool Zero Check At Surface			
1			
5" Main Pass			

Software Version			
Acquisition System		Version	
MaxWell		4.0.9126.3000	
Computation	Description	Version	
Sonic Openhole Ensemble	Sonic Openhole Ensemble	4.0.9033.3000	
DepthCorrection	DepthCorrection	4.0.9125.3000	
Tool Elements	Description	Software Version	Firmware Version
SLS-E	Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL	4.0.9033.3000	4.0
HGNS-B	HIIT Gamma-Ray and Neutron Sonde, 125 degC	4.0.9033.3000	2.0

HRCC-B	HILT High-Resolution Control Cartridge, 125 degC	4.0.9033.3000	2.0
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Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Log[5]:Up	Up	76.65 ft	5781.03 ft	04-Oct-2013 3:31:08 AM	04-Oct-2013 5:46:50 AM	ON	0.00 ft	No

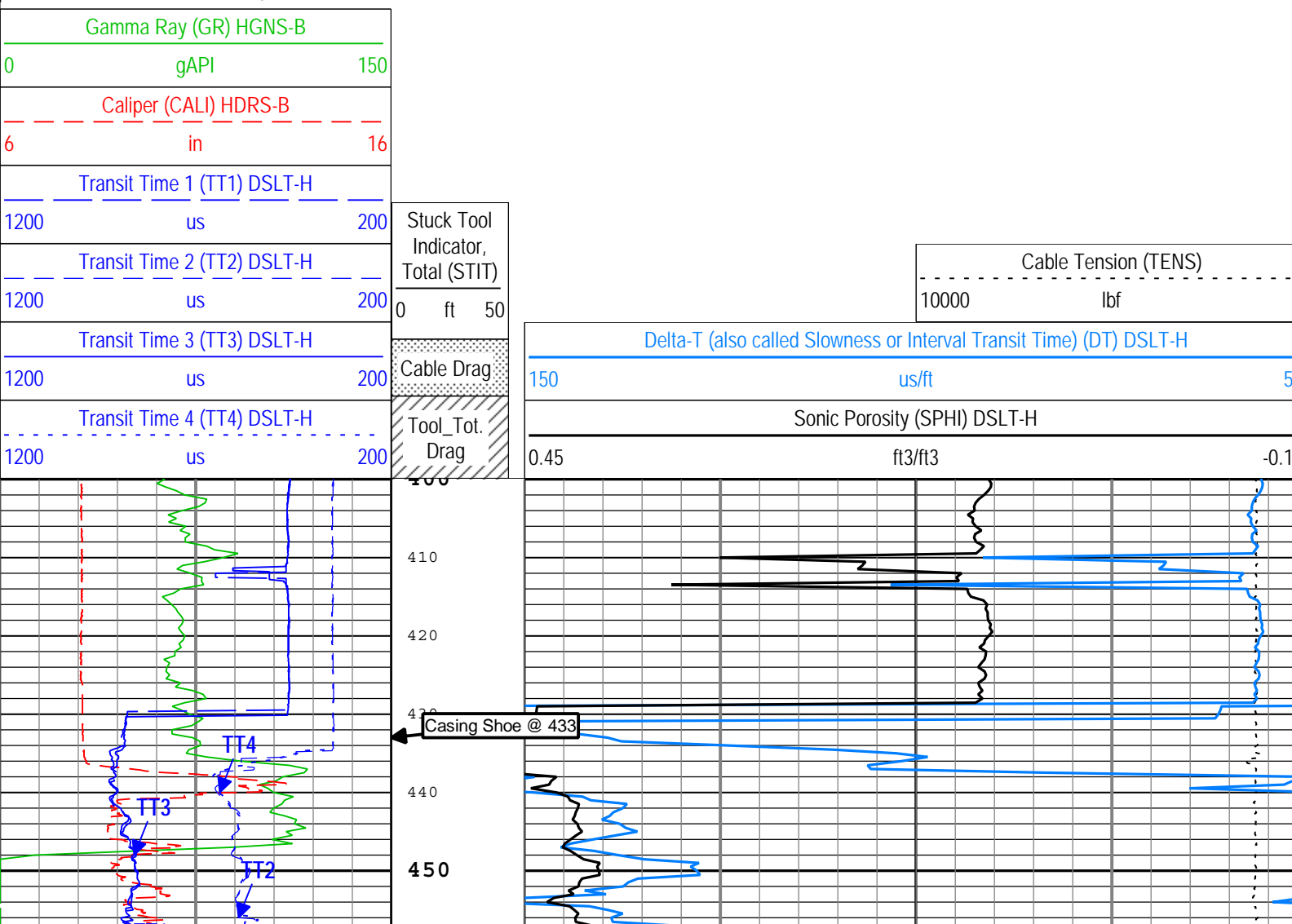
All depths are referenced to toolstring zero

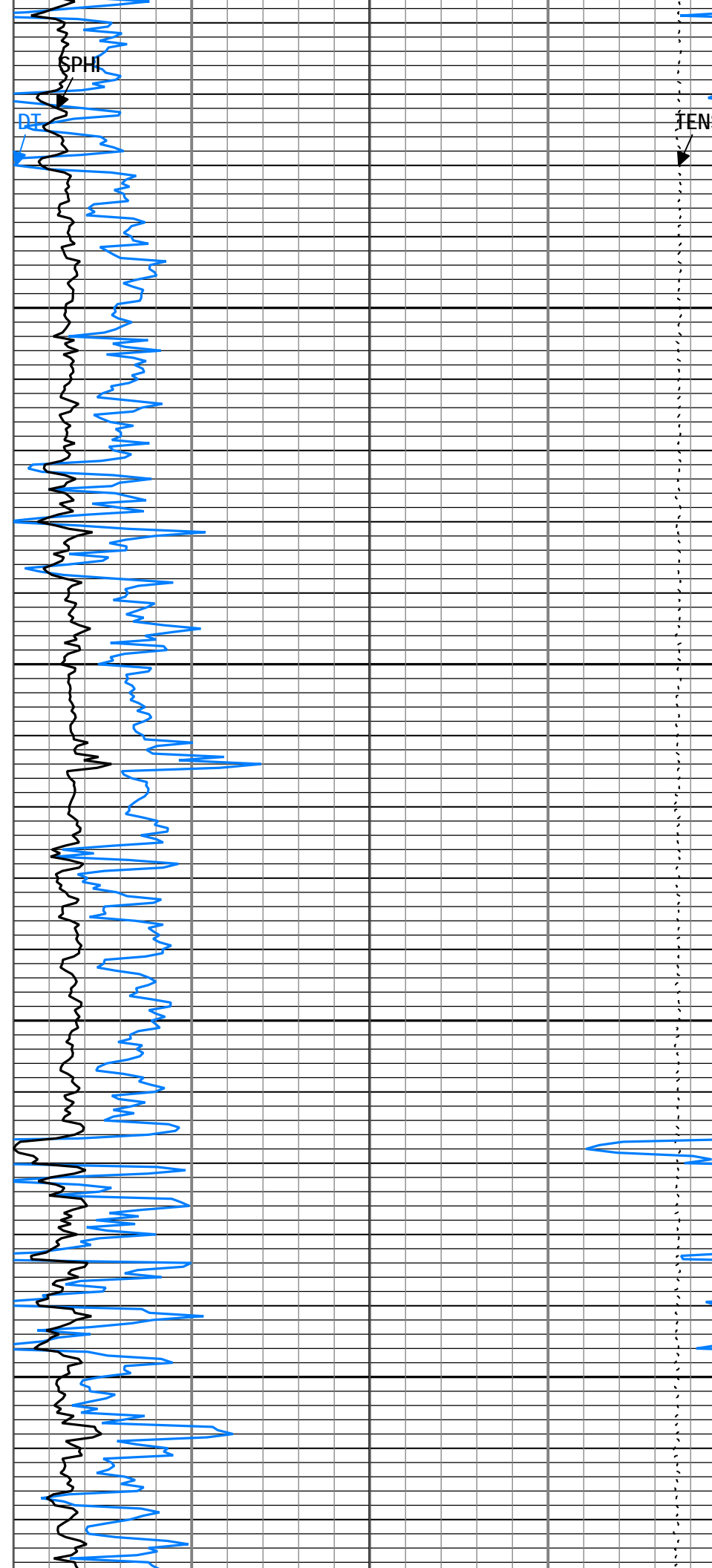
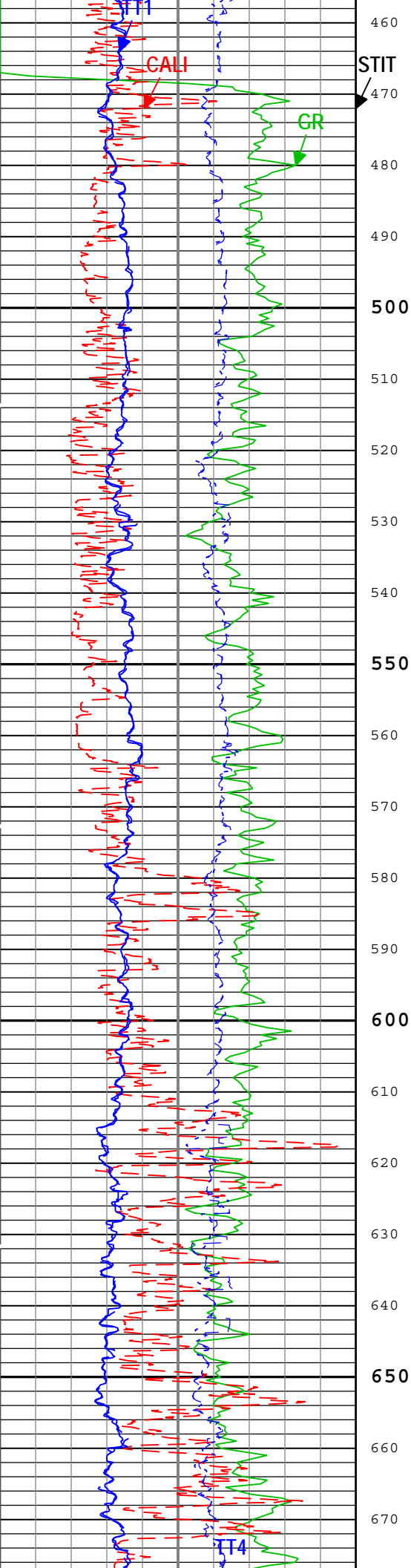
Log	Company: Vecta Oil & Gas LTD	Well: Snowmass 32-32	1: Log[5]:Up:S011
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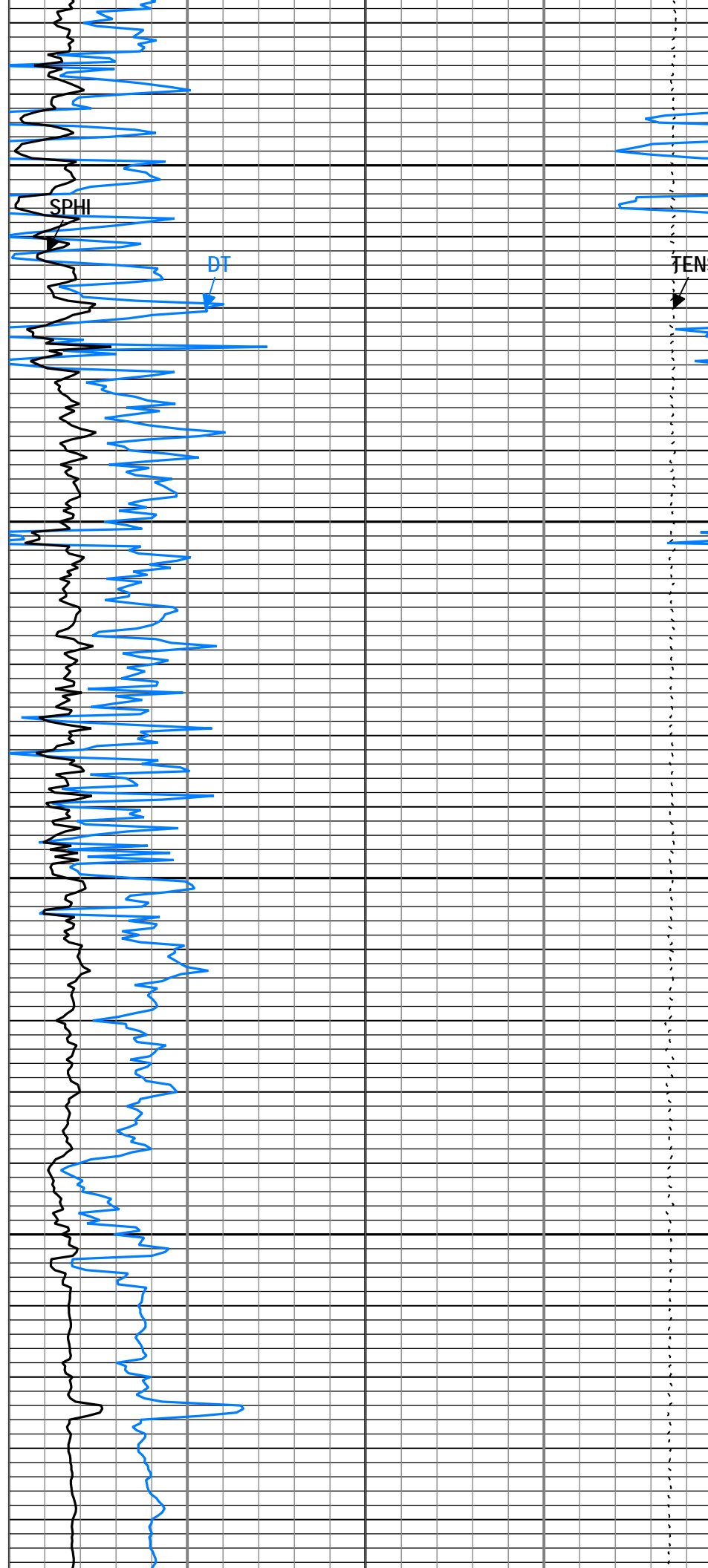
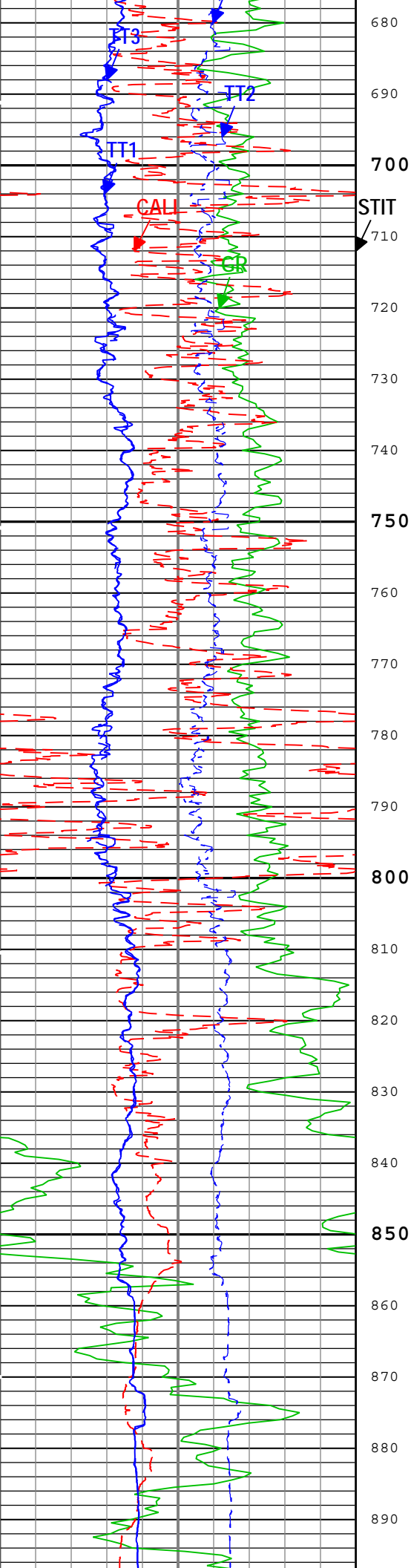
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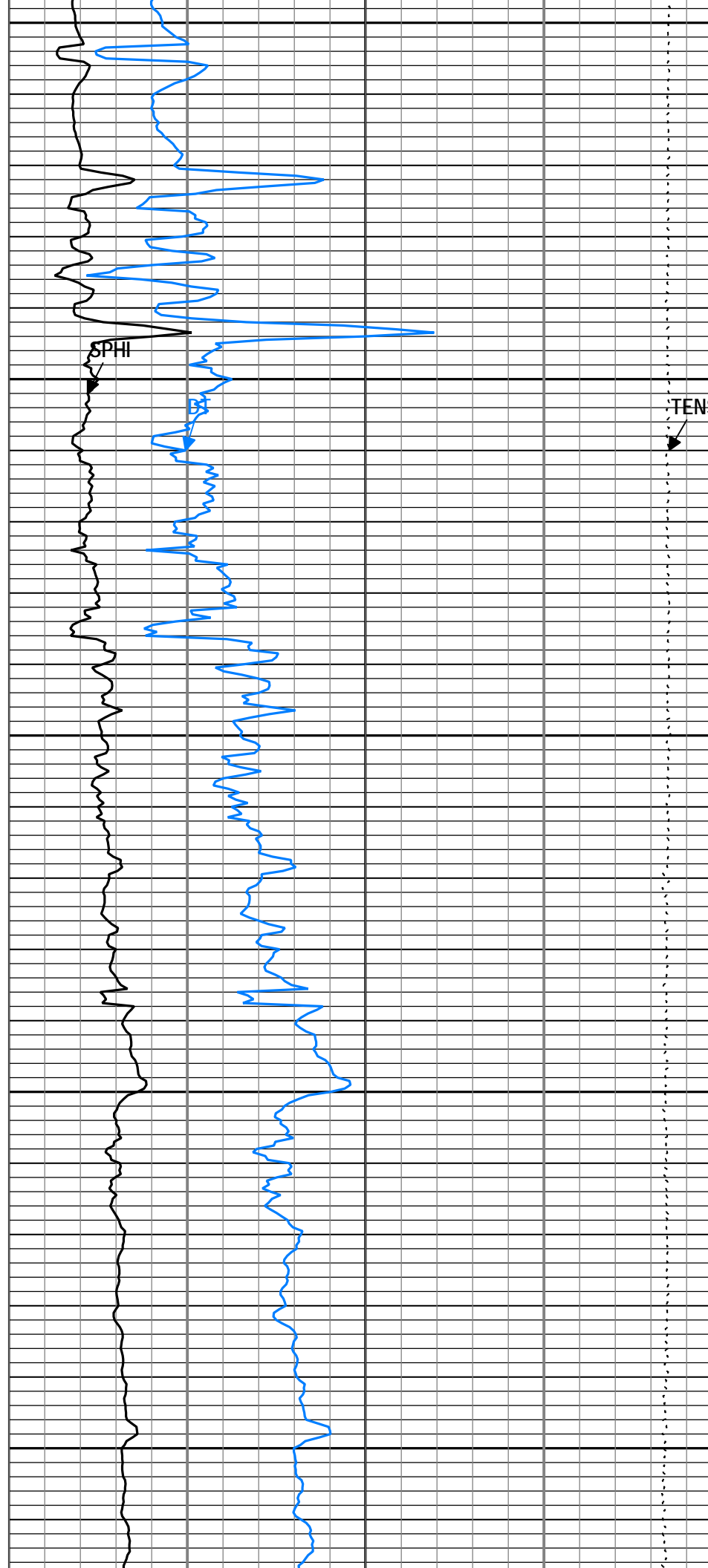
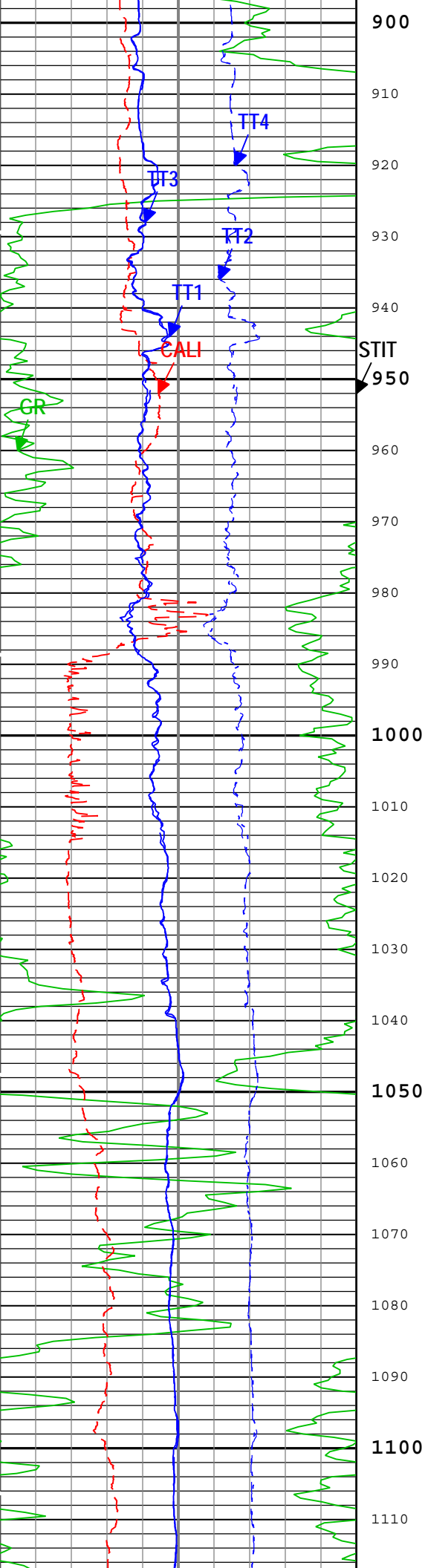
Channel	Source	Sampling
CALI	HDRS-B:HRCC-B:HRCC-B	1in
DT	DSLT-H:SLS-E:SLS-E	6in
GR	HGNS-B:HGNS-B:HGNS-B	6in
SPHI	DSLT-H:SLS-E:SLS-E	6in
STIT	DepthCorrection	6in
TENS	WLWorkflow	1in
TIME_1900	WLWorkflow	0.1in
TT1	DSLT-H:SLS-E:SLS-E	2in
TT2	DSLT-H:SLS-E:SLS-E	2in
TT3	DSLT-H:SLS-E:SLS-E	2in
TT4	DSLT-H:SLS-E:SLS-E	2in

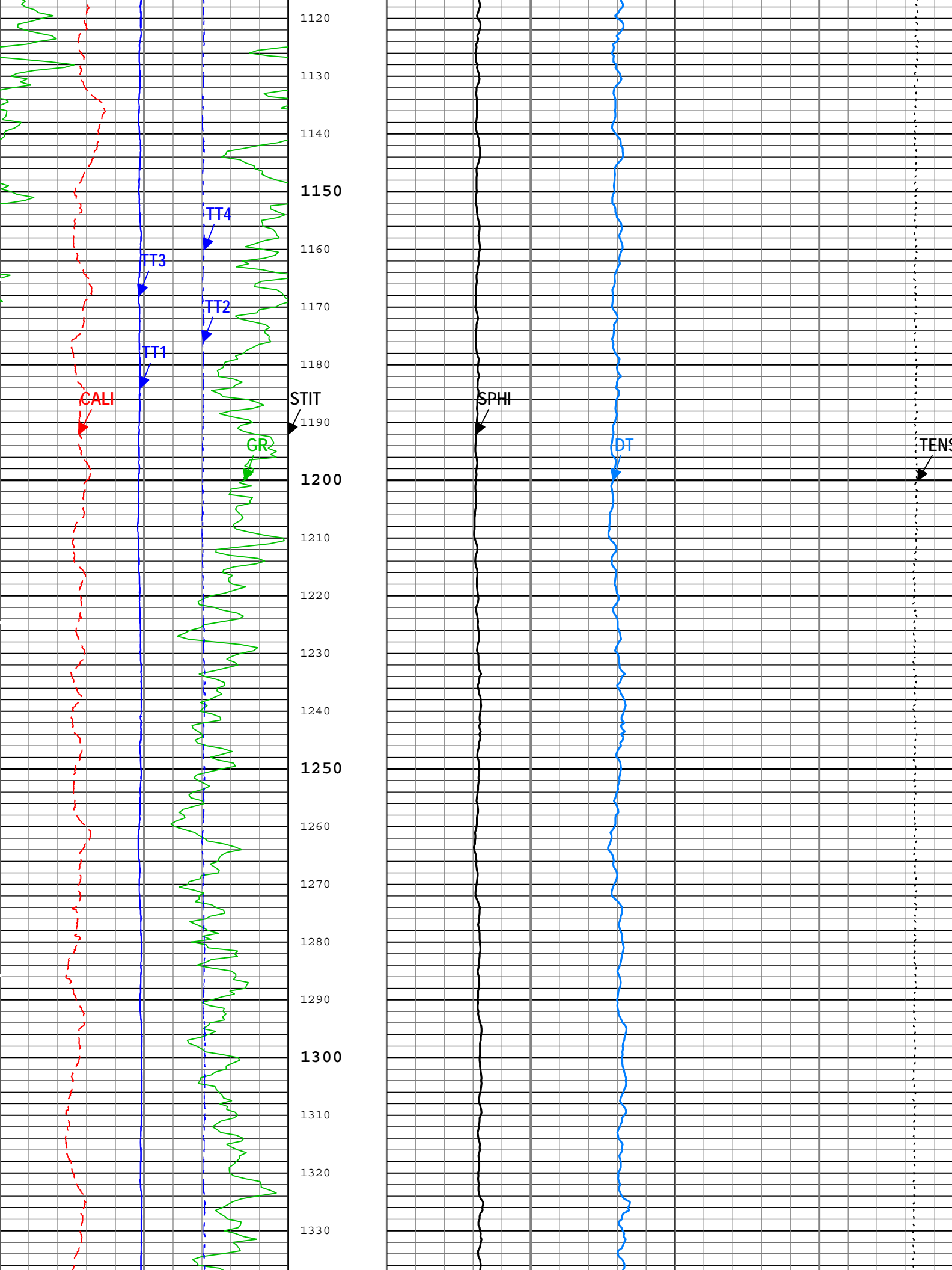
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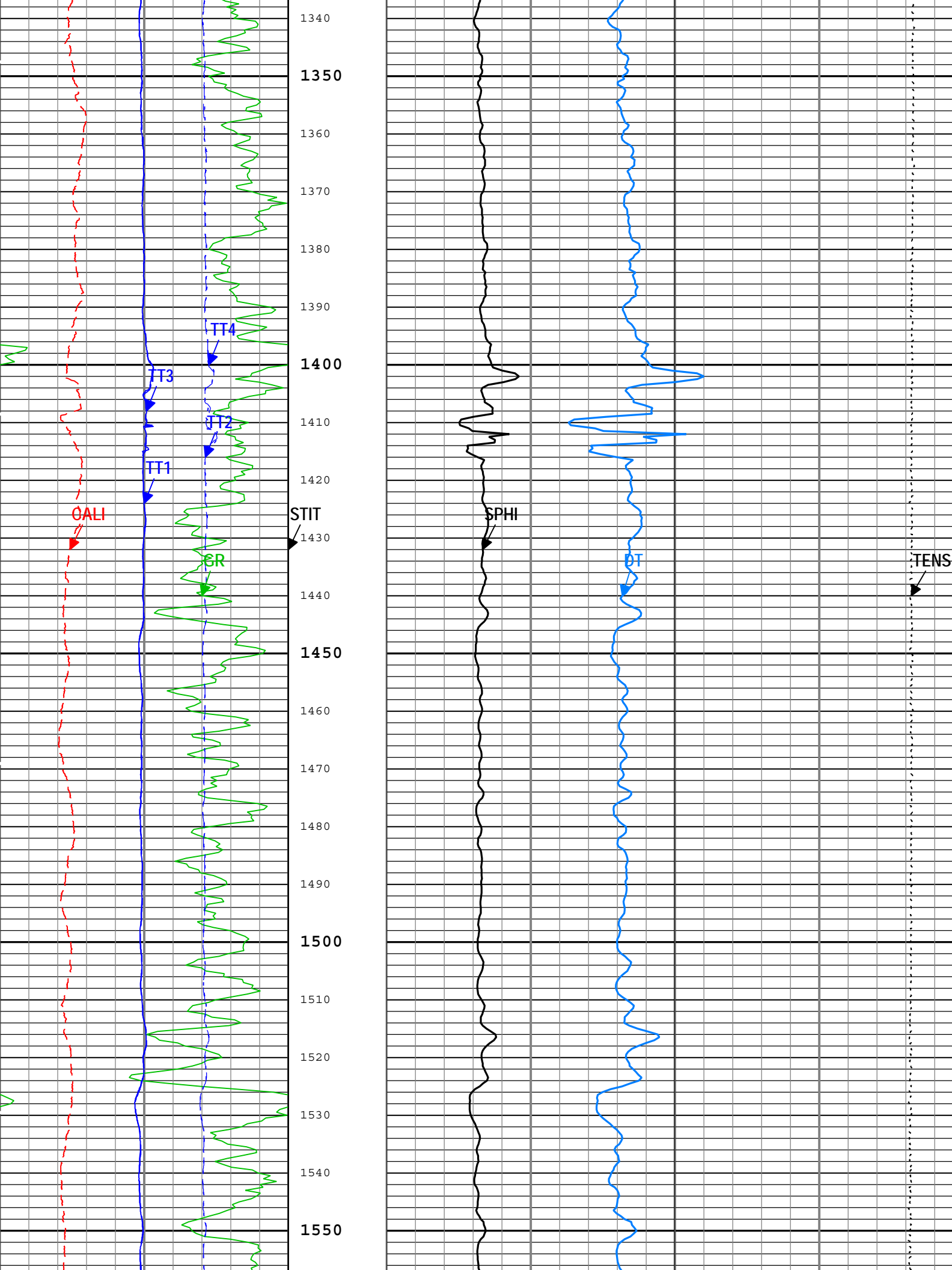


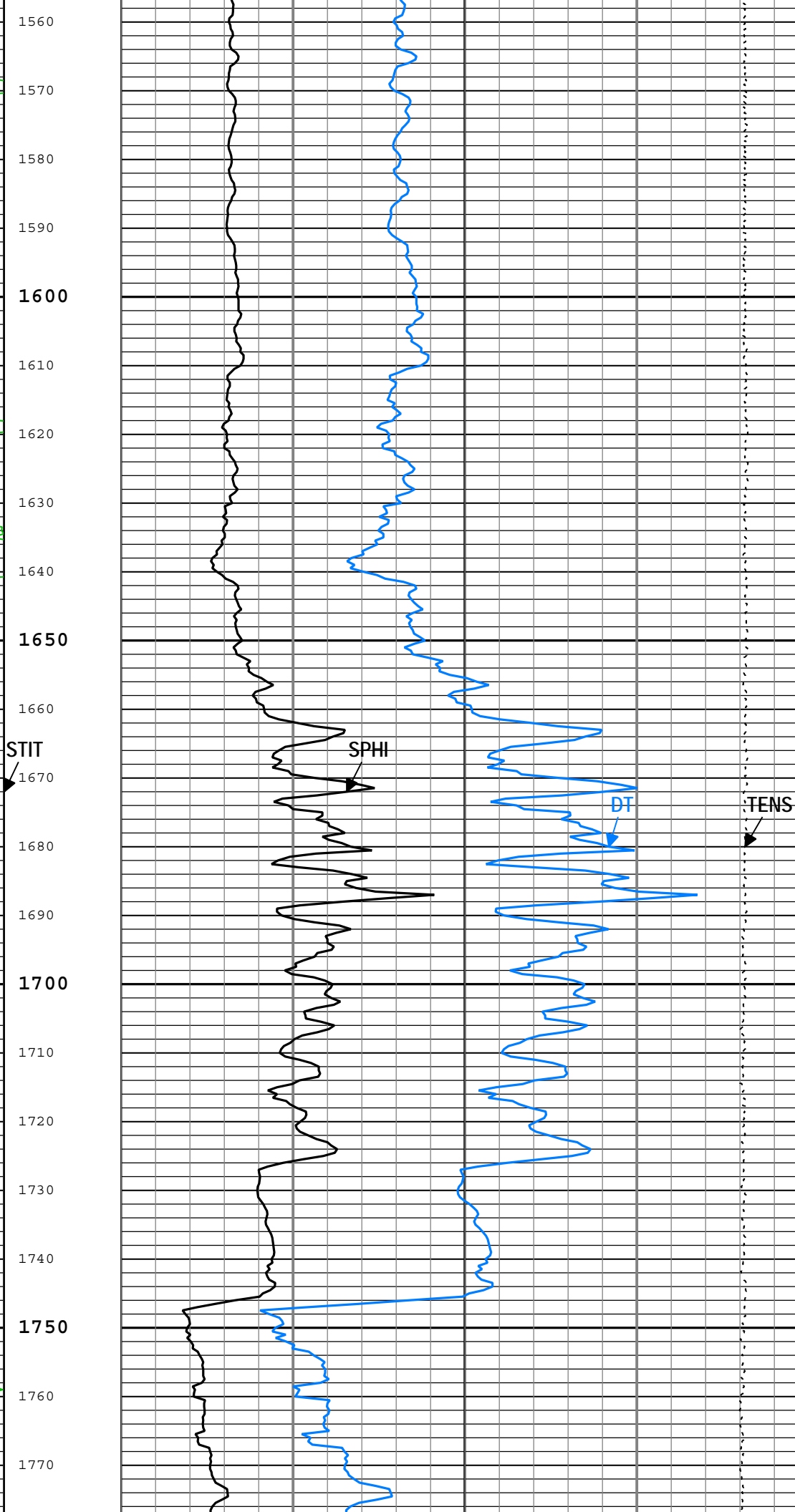
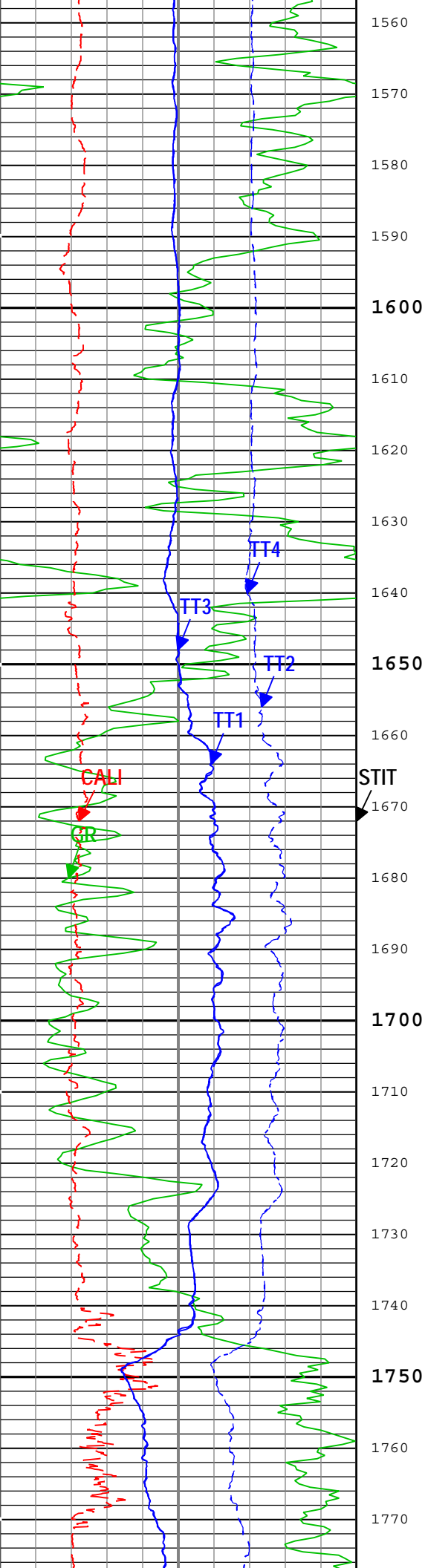


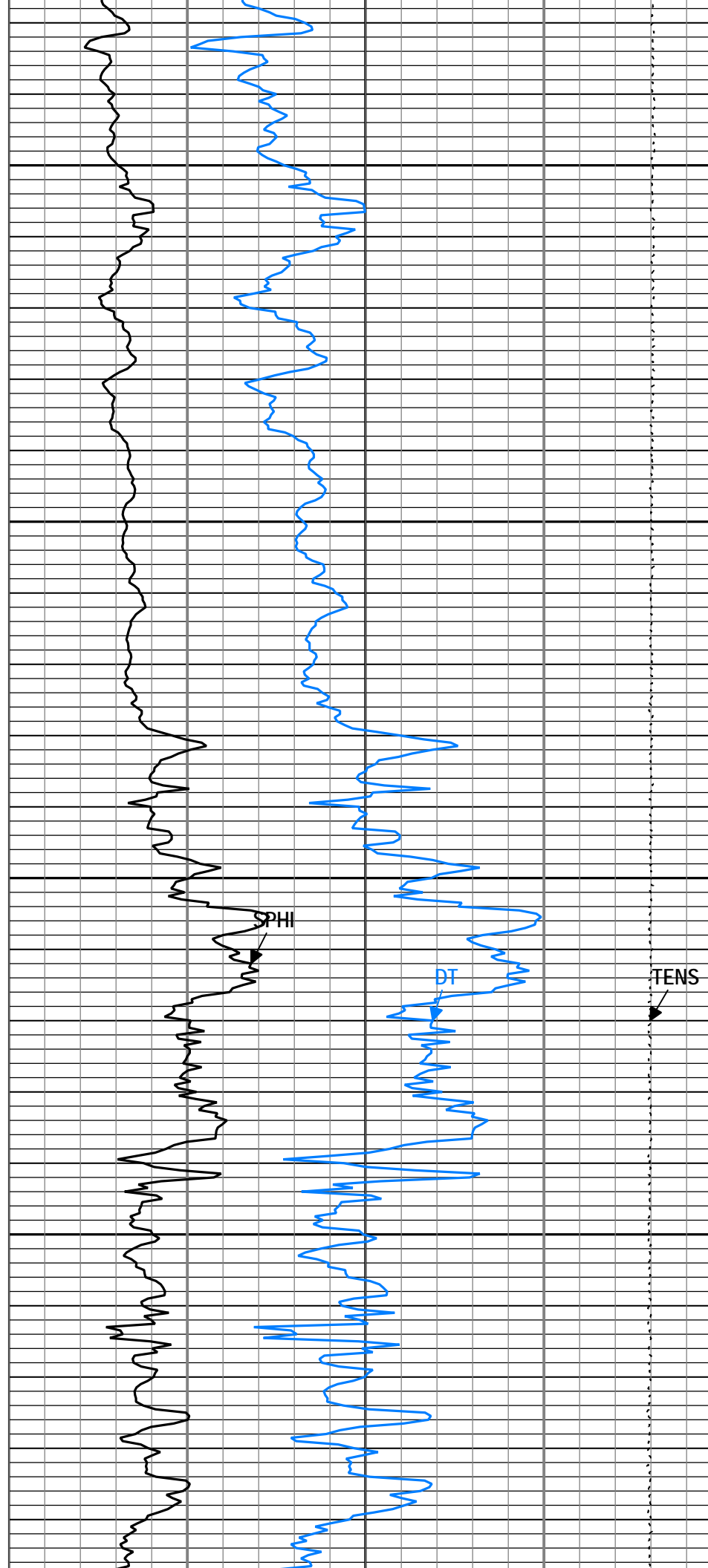
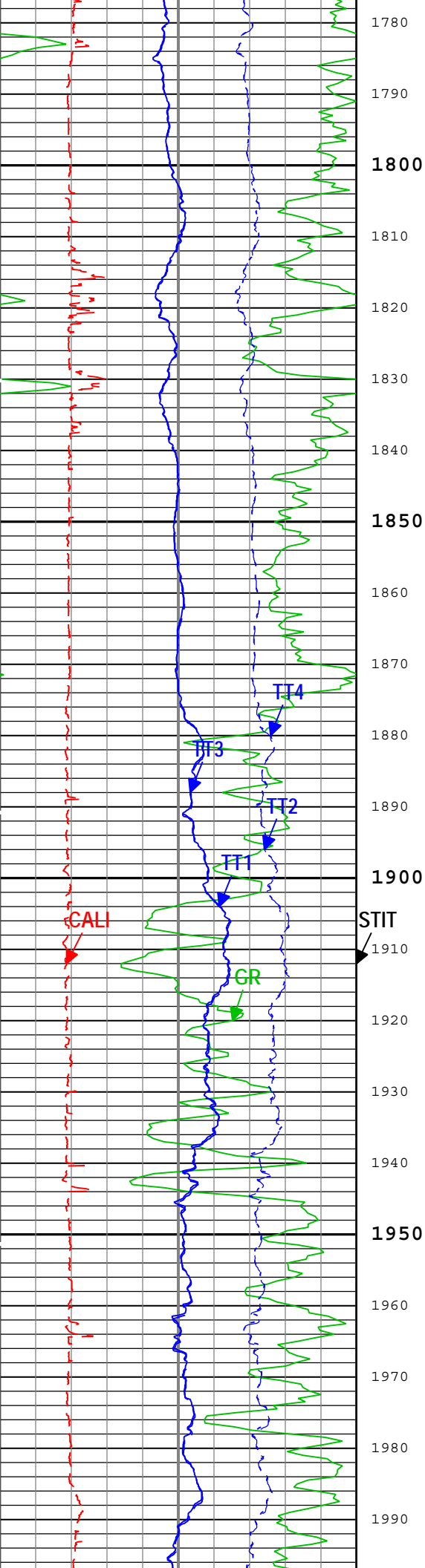


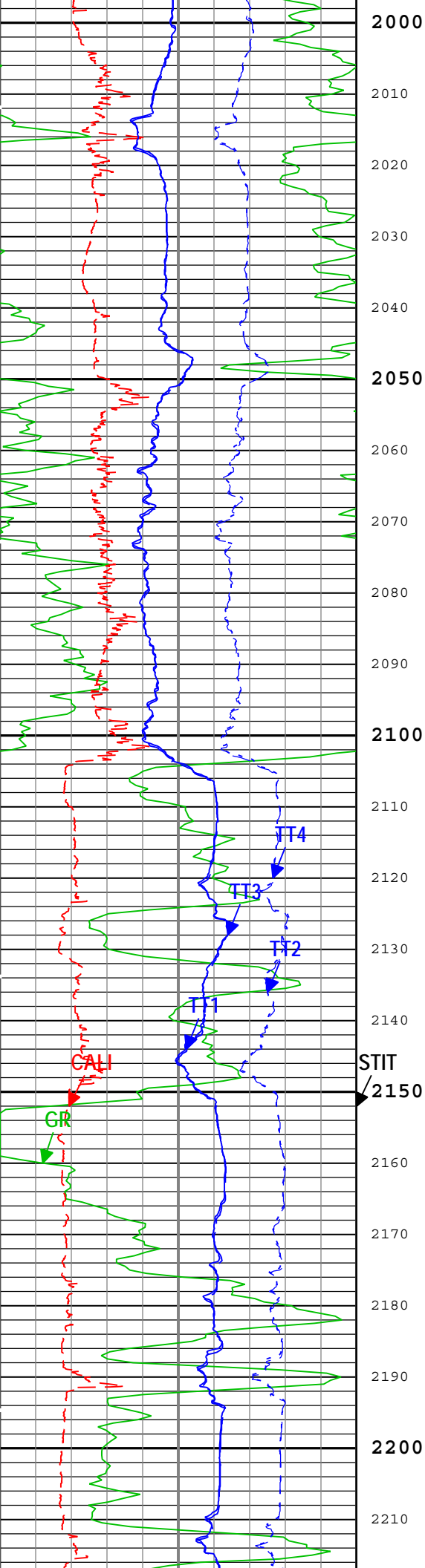












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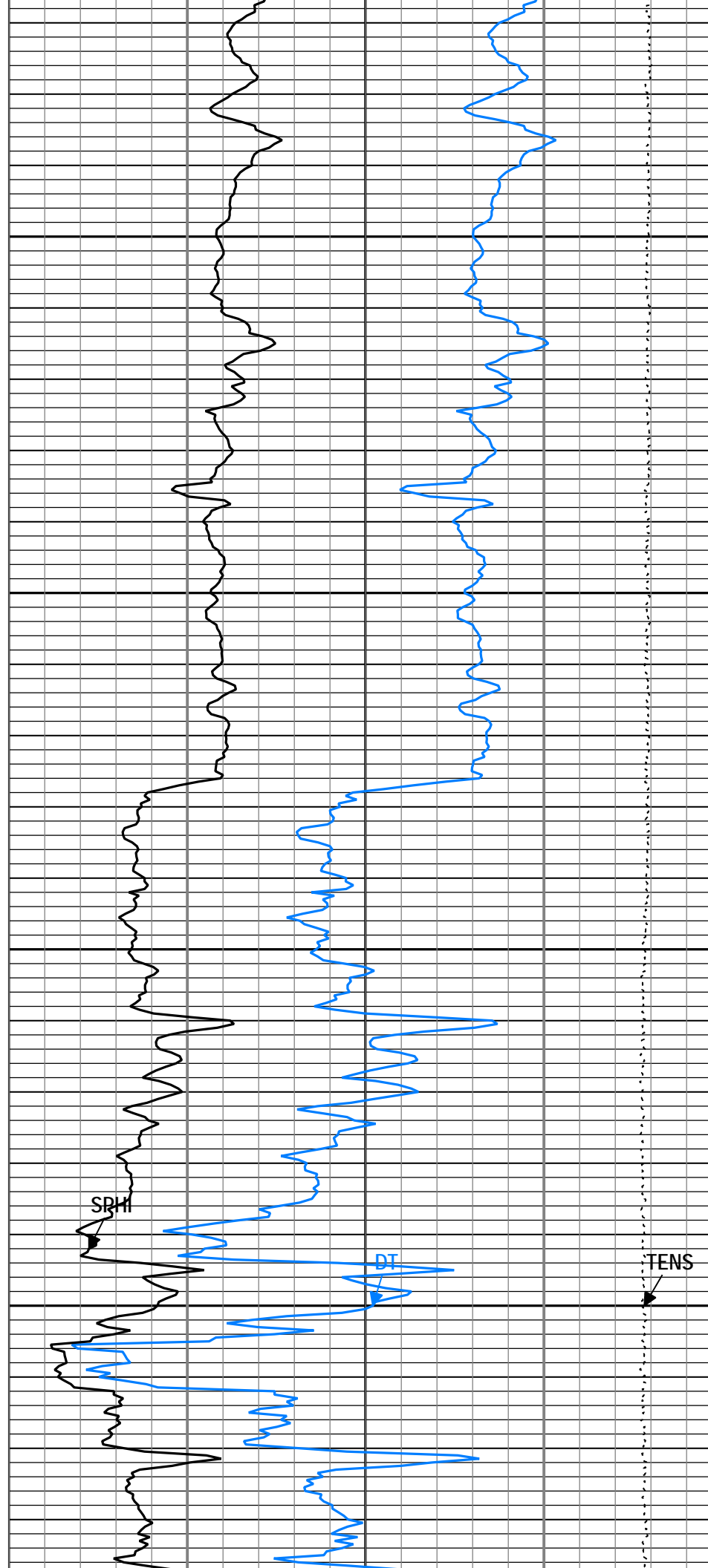
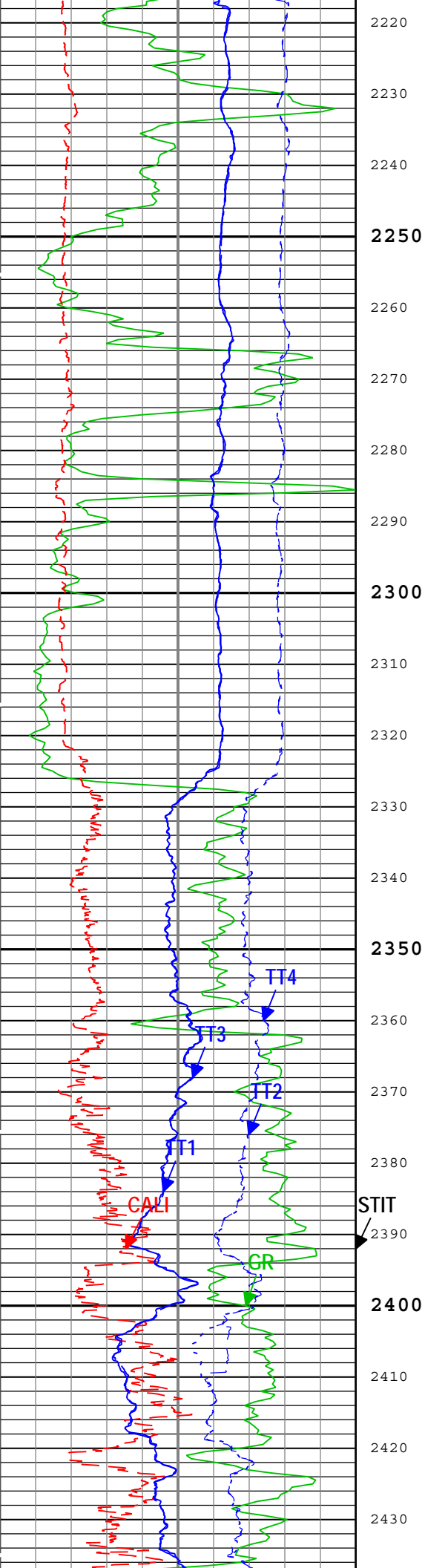
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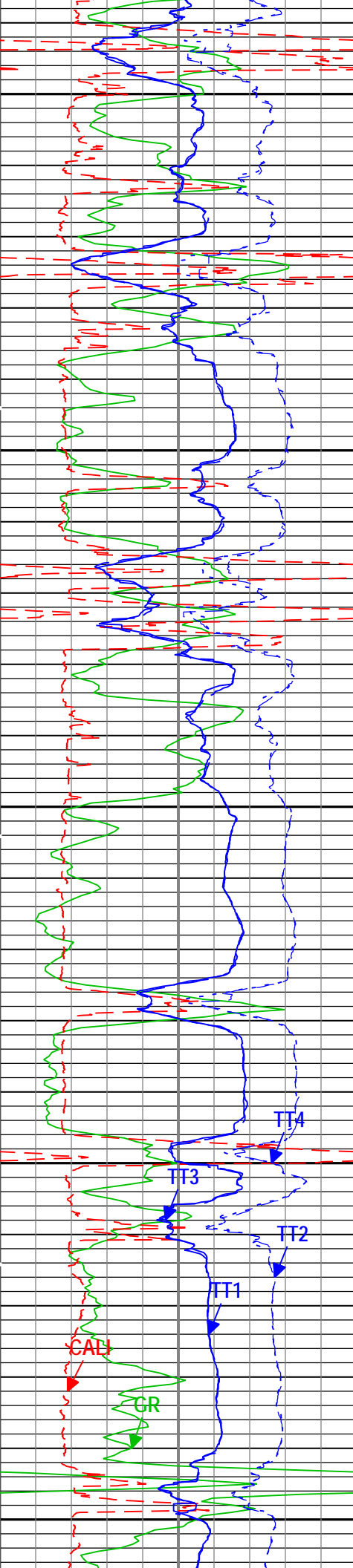
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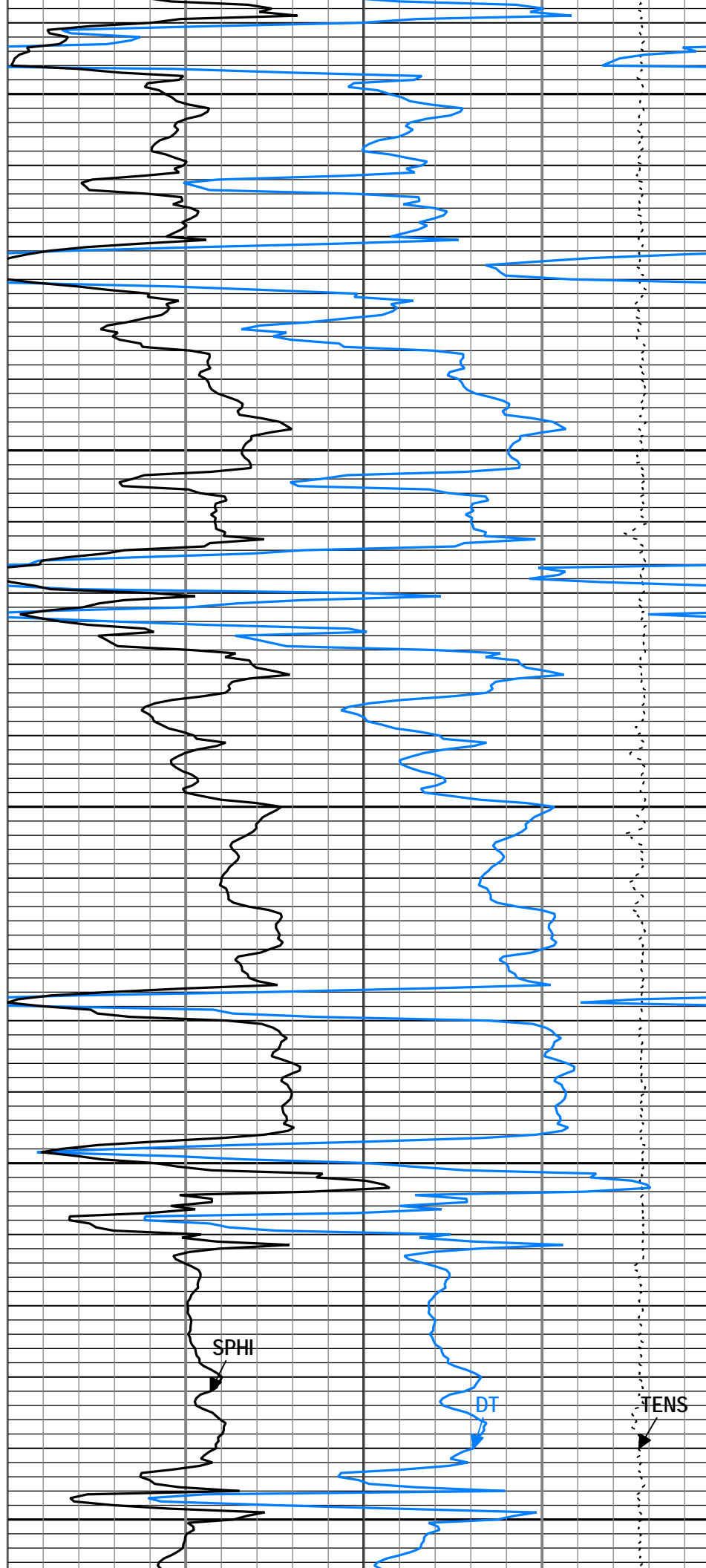
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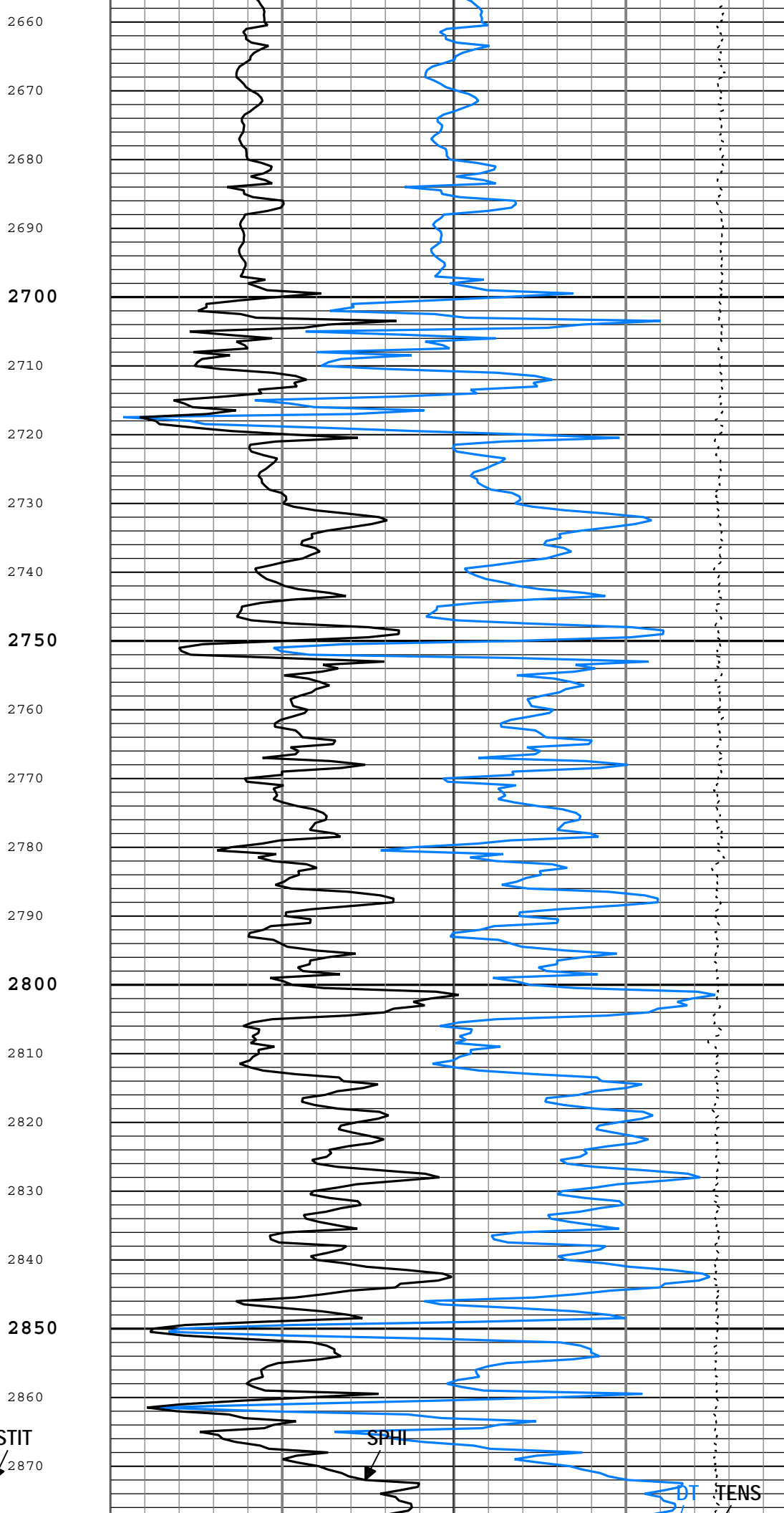
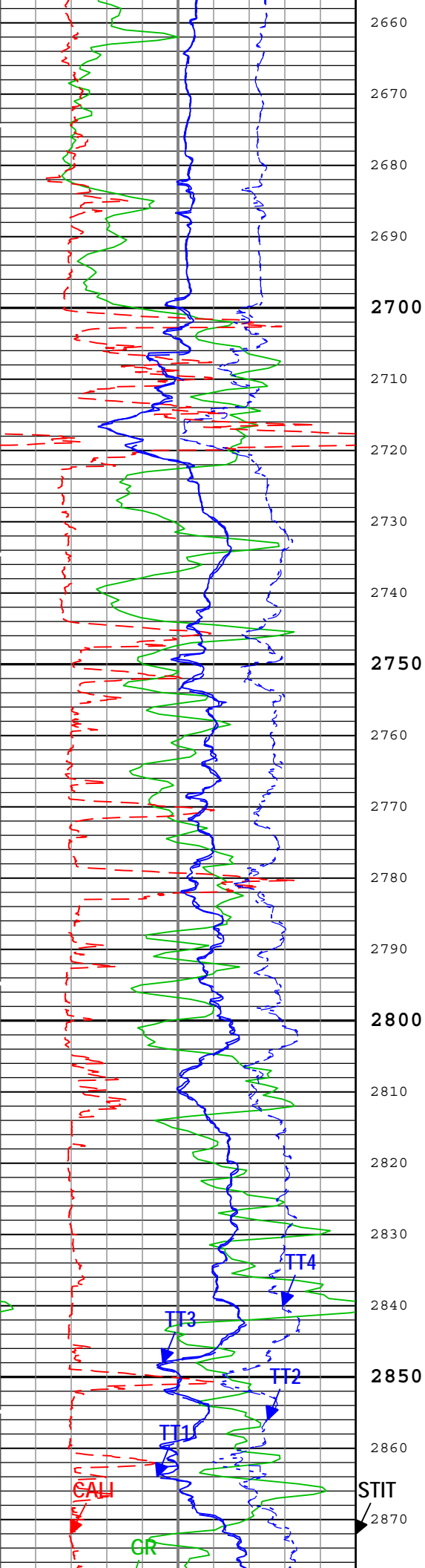
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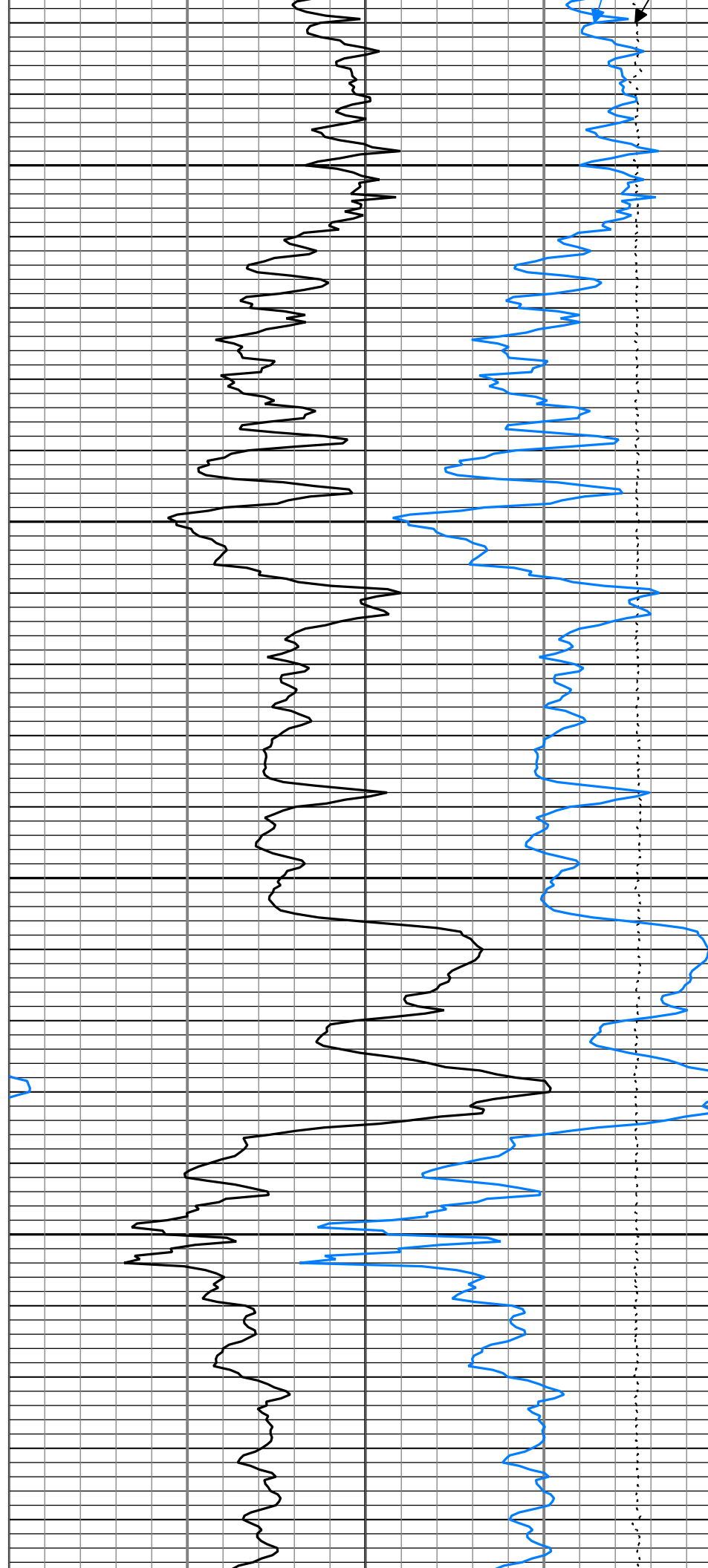
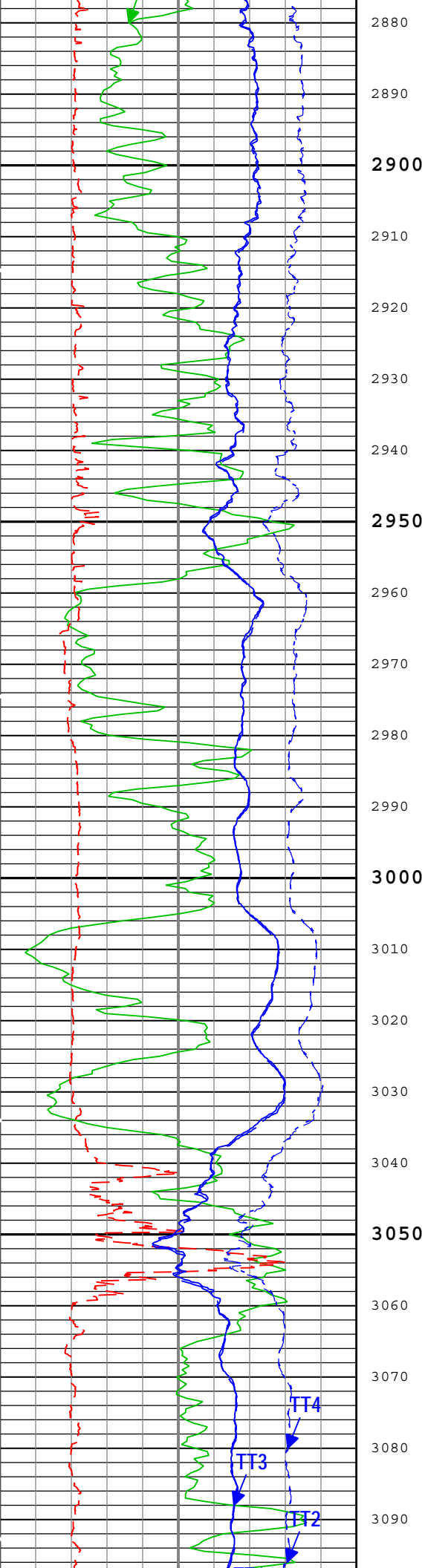


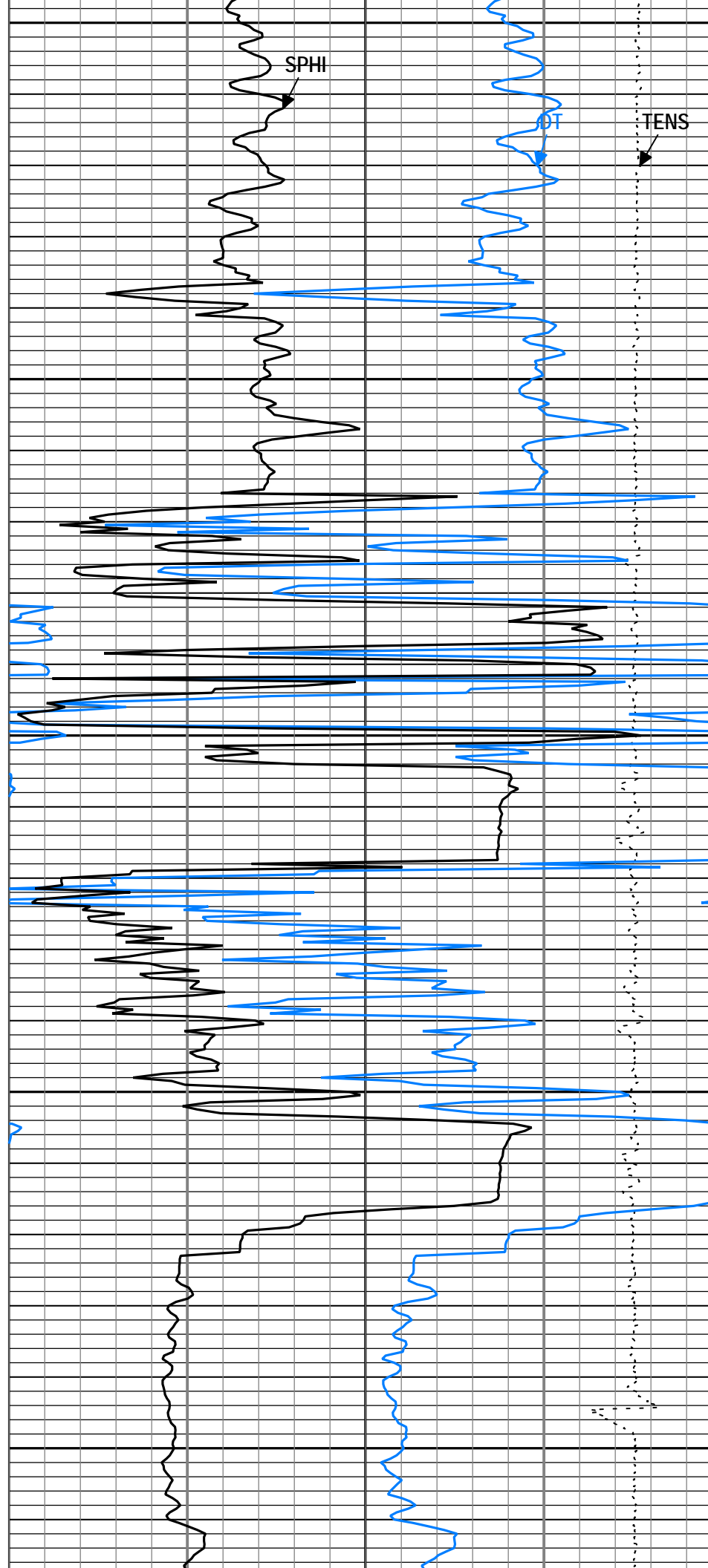
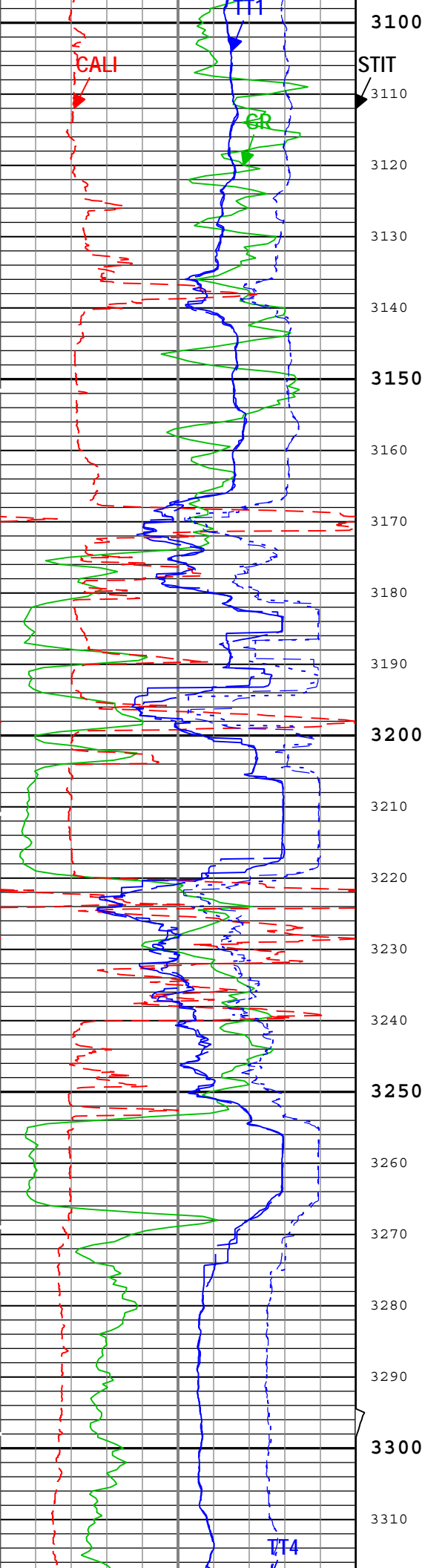
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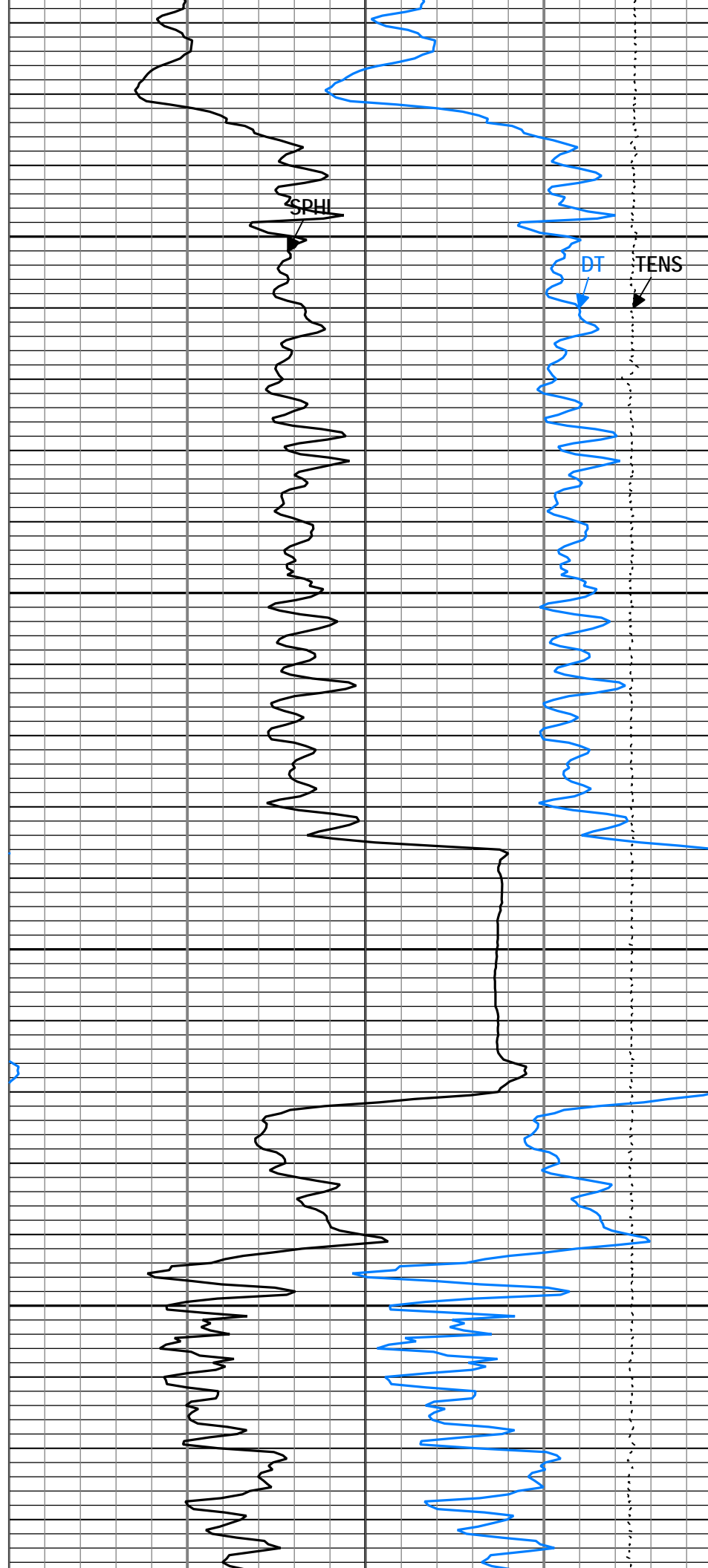
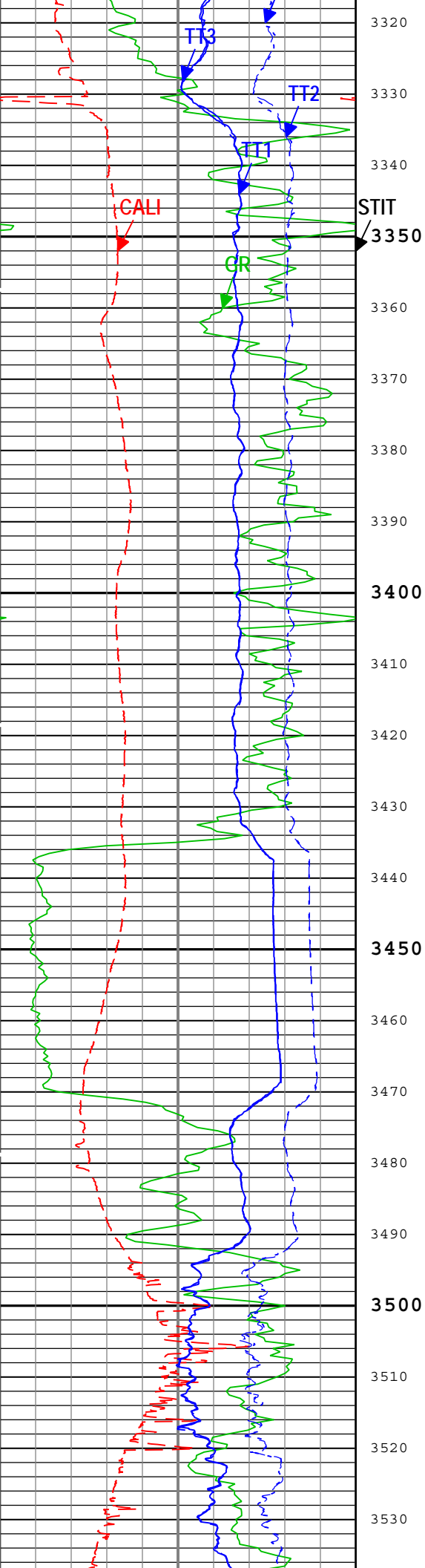
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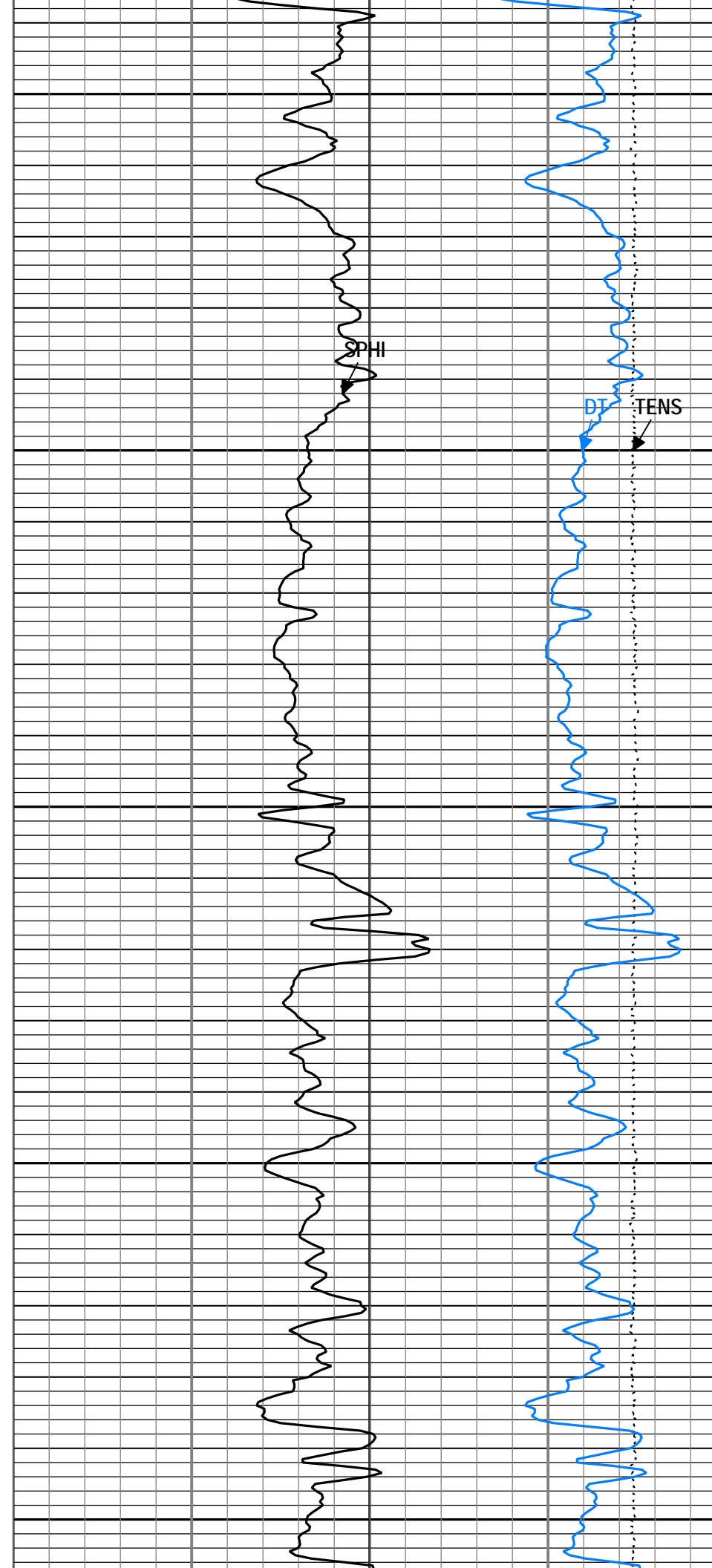
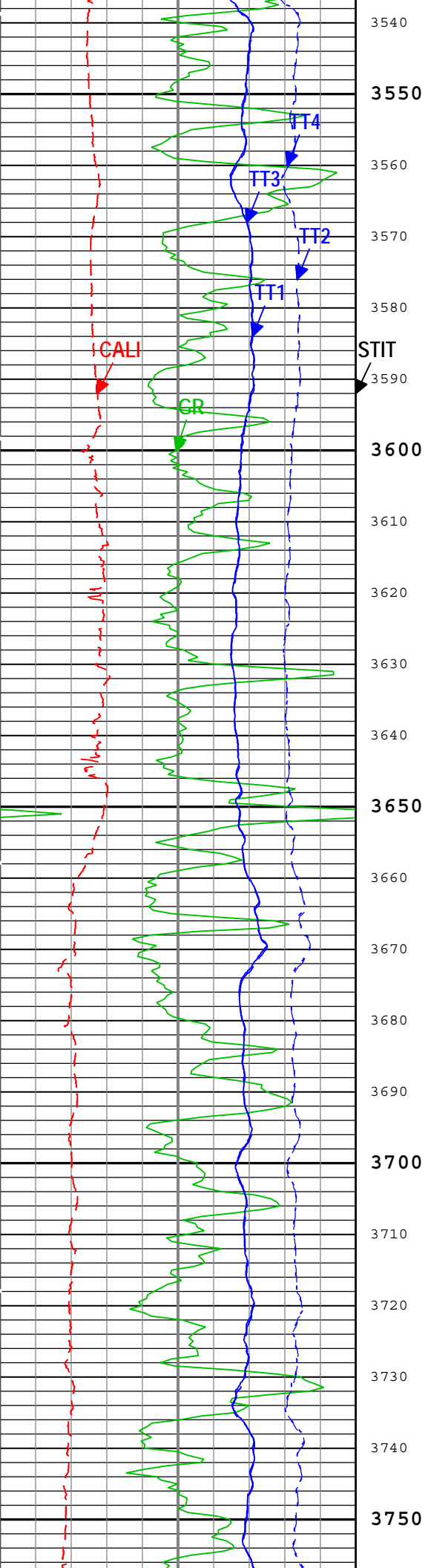


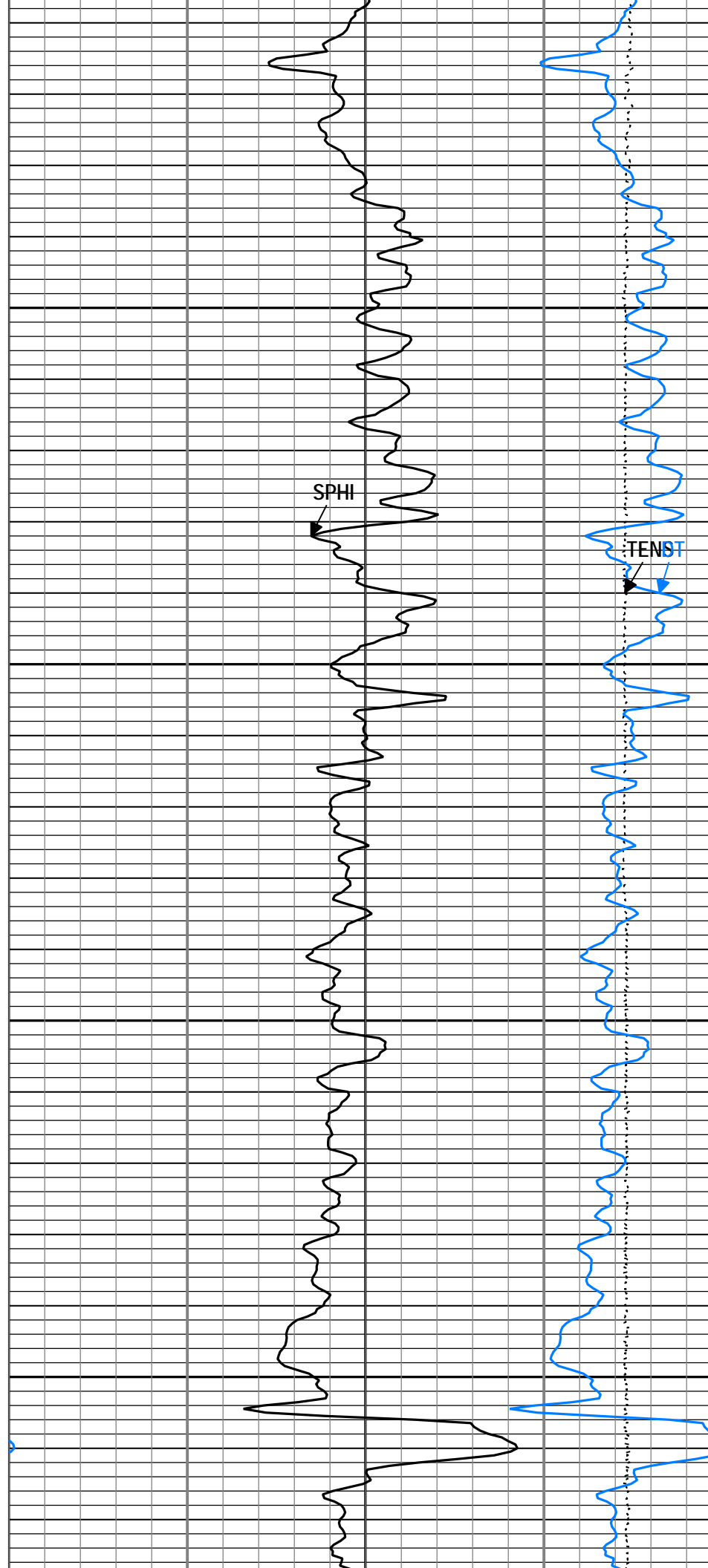
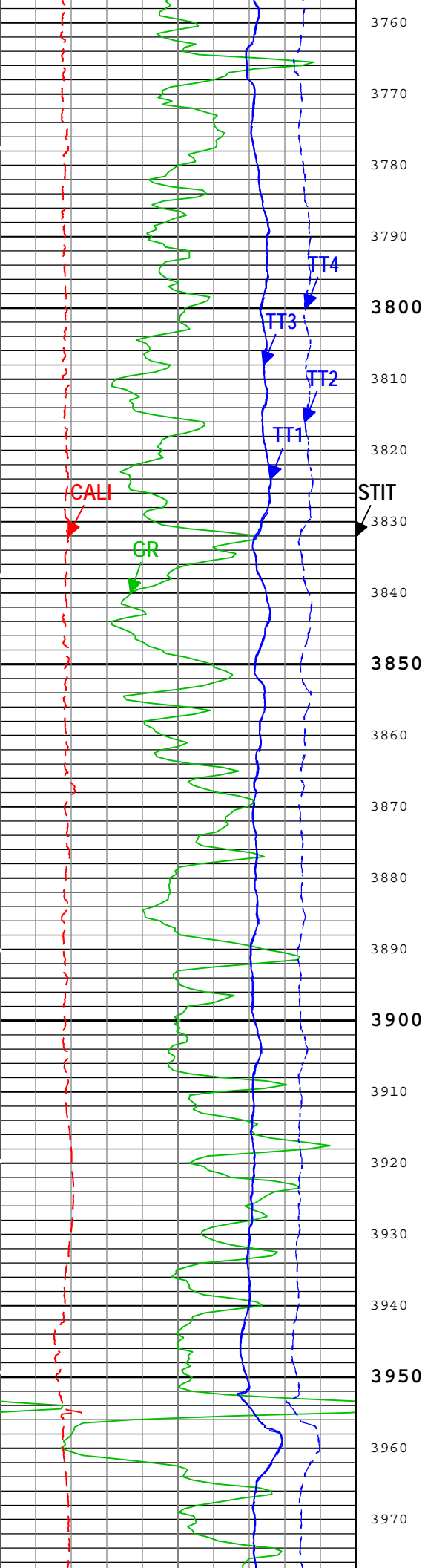


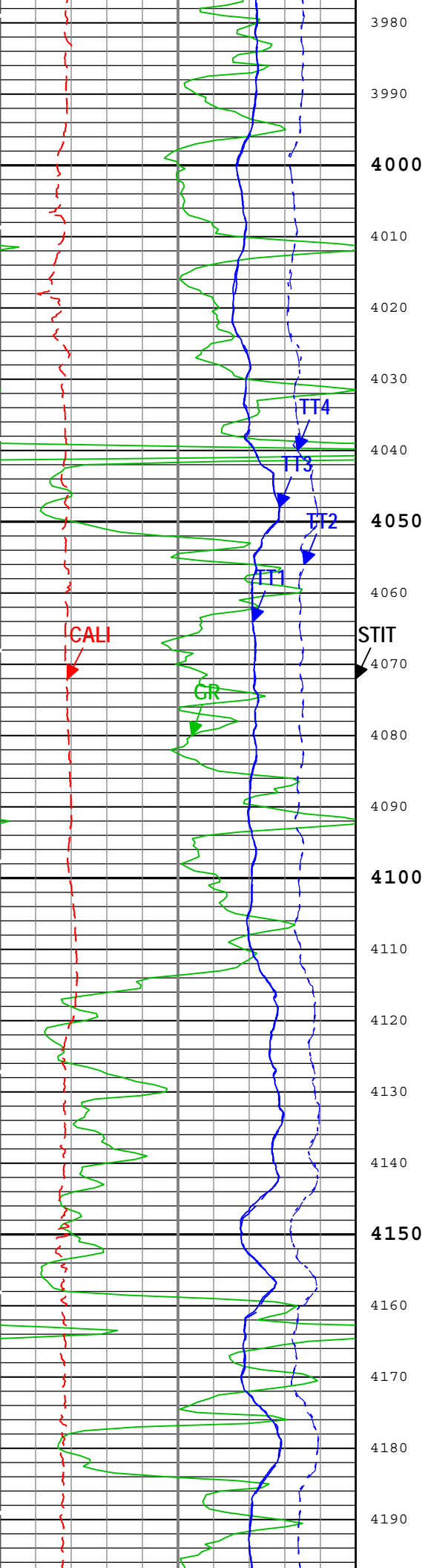












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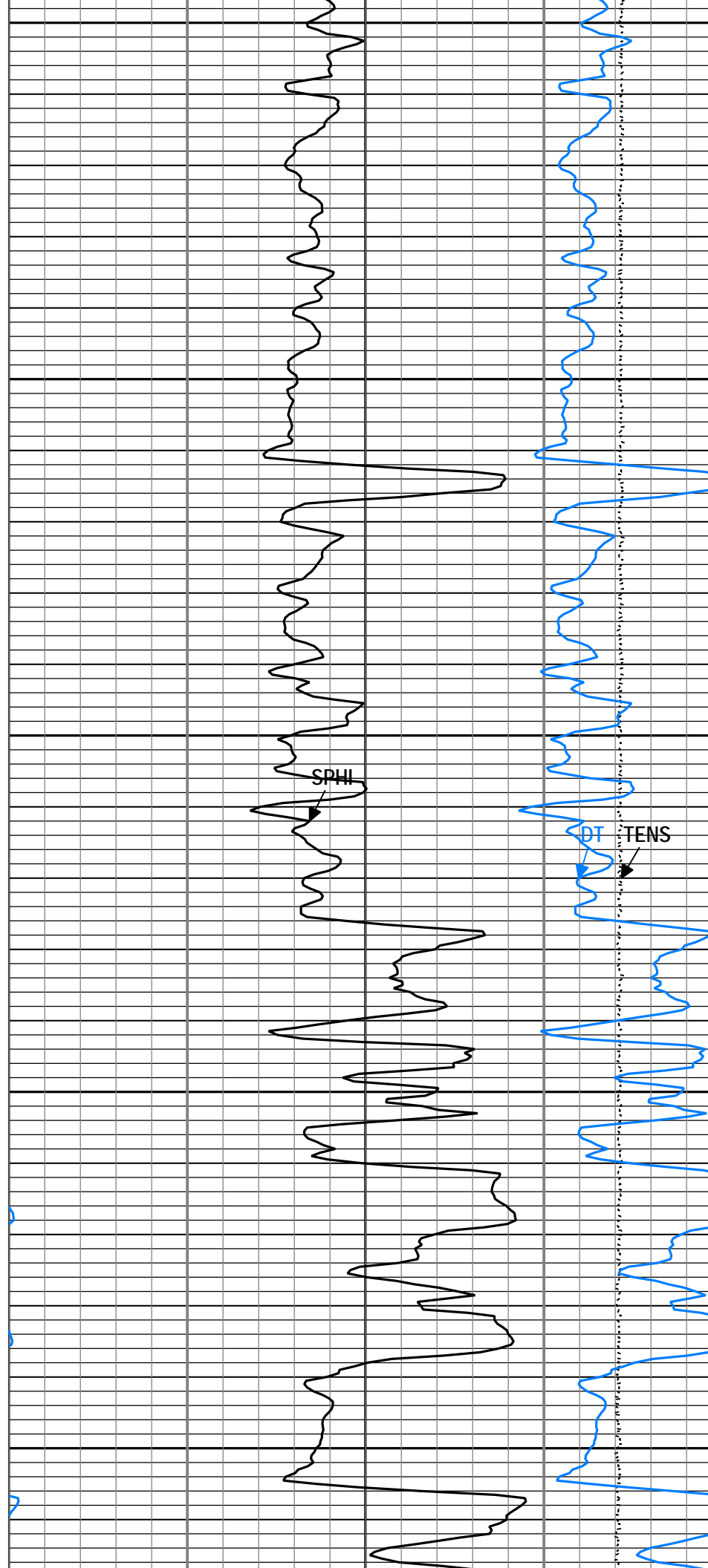
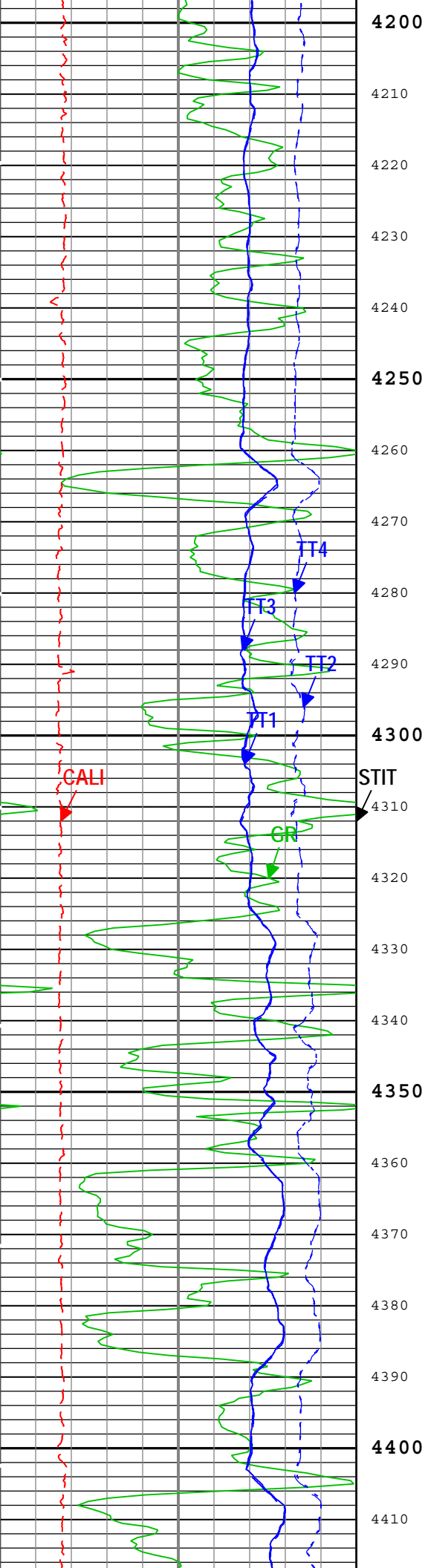
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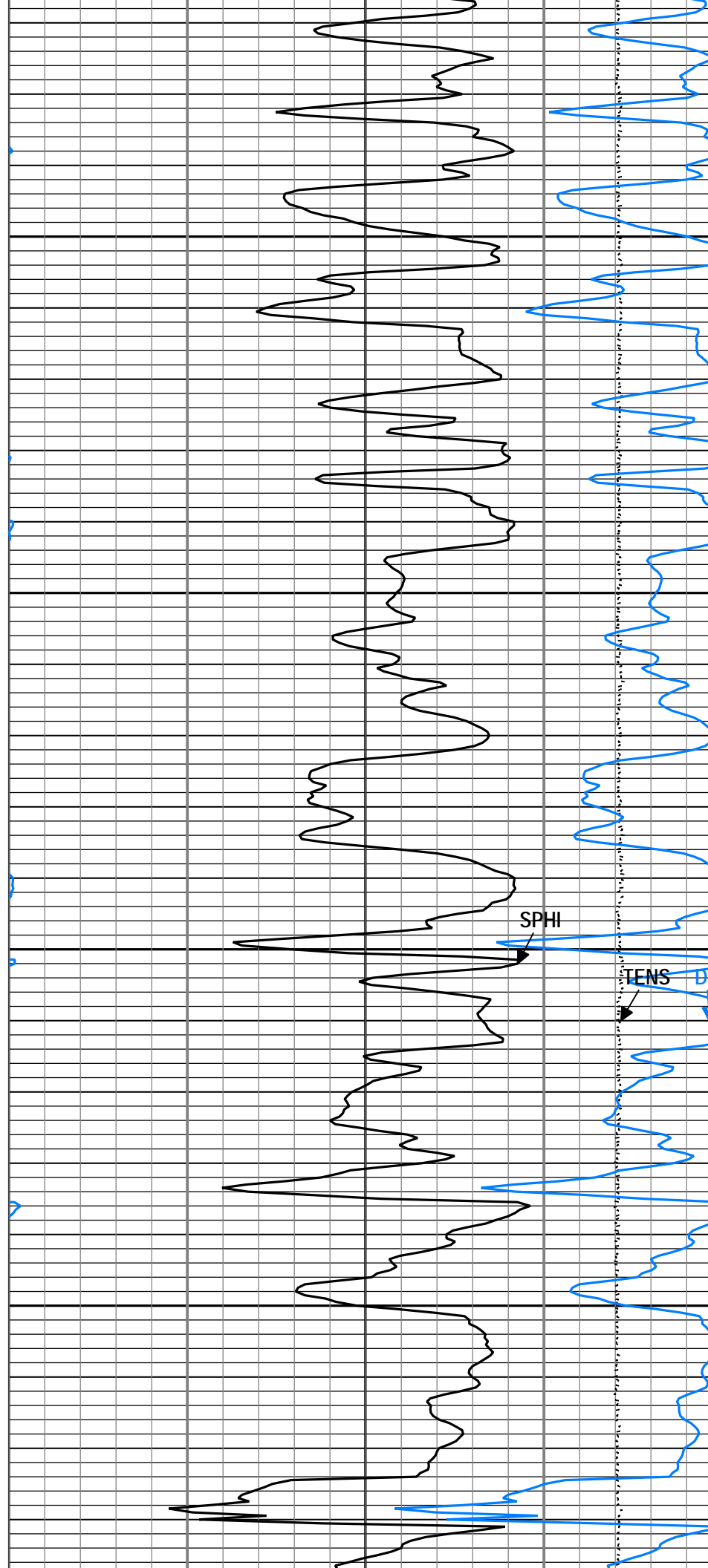
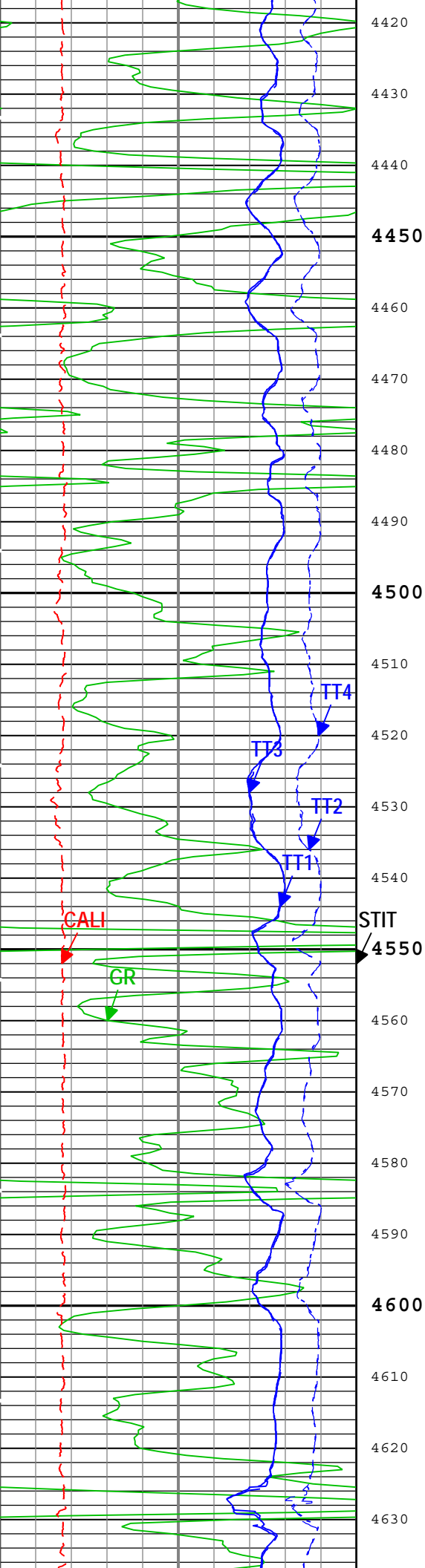
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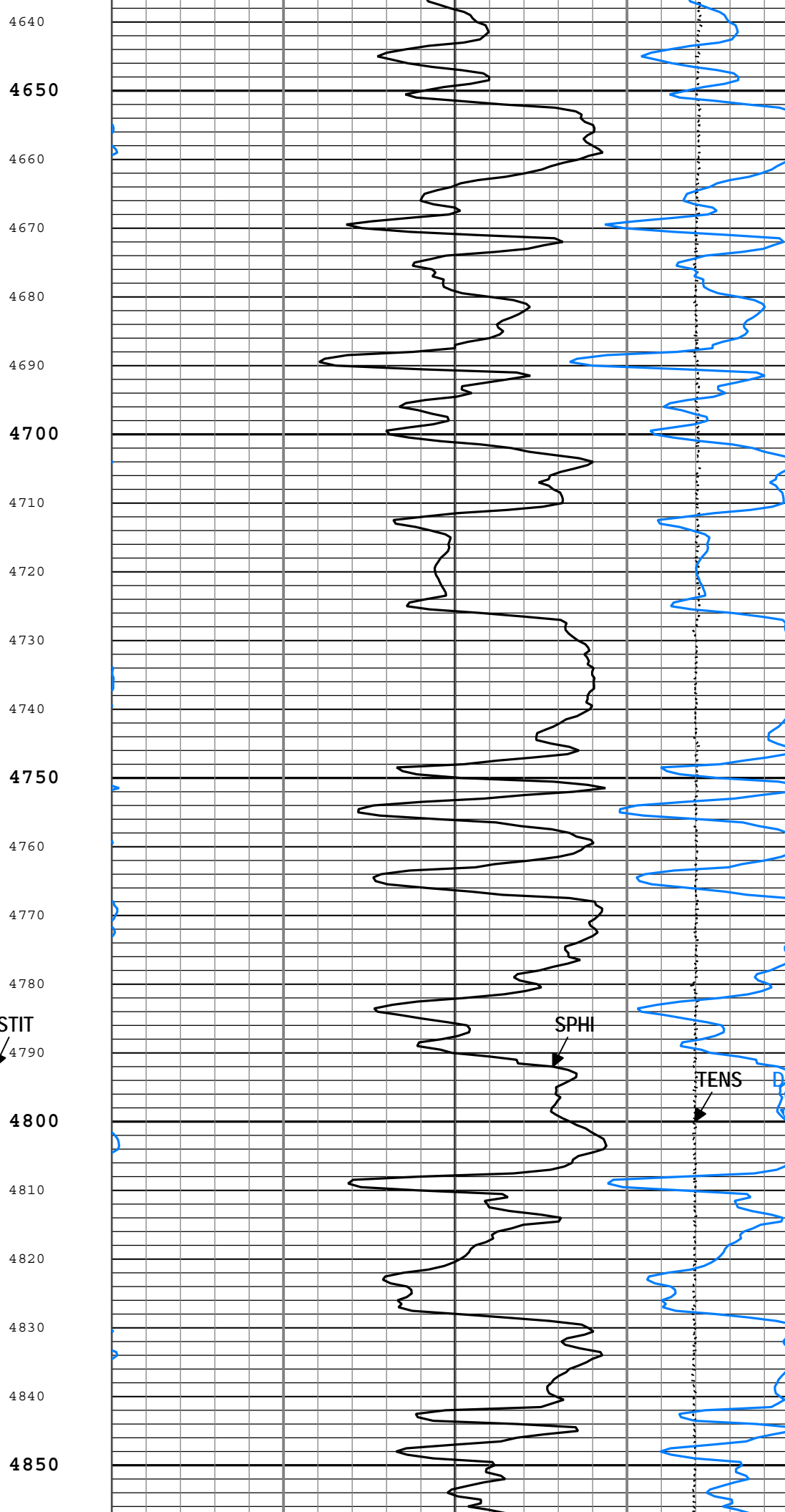
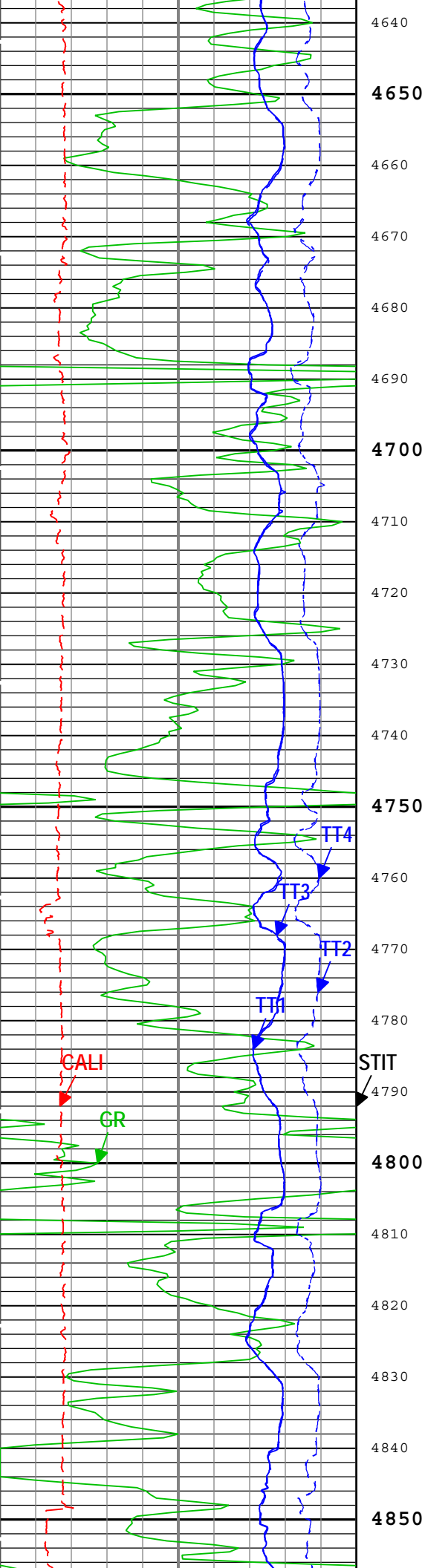
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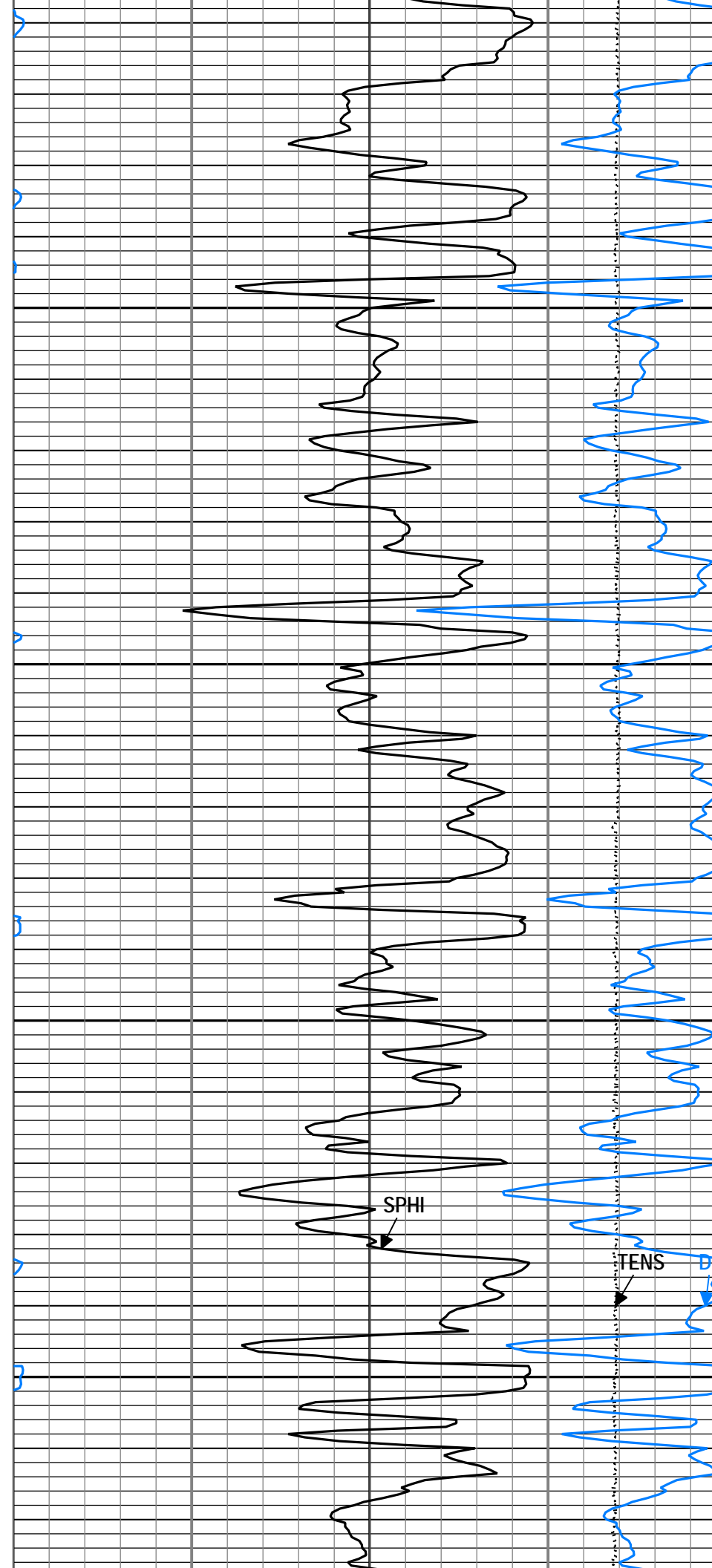
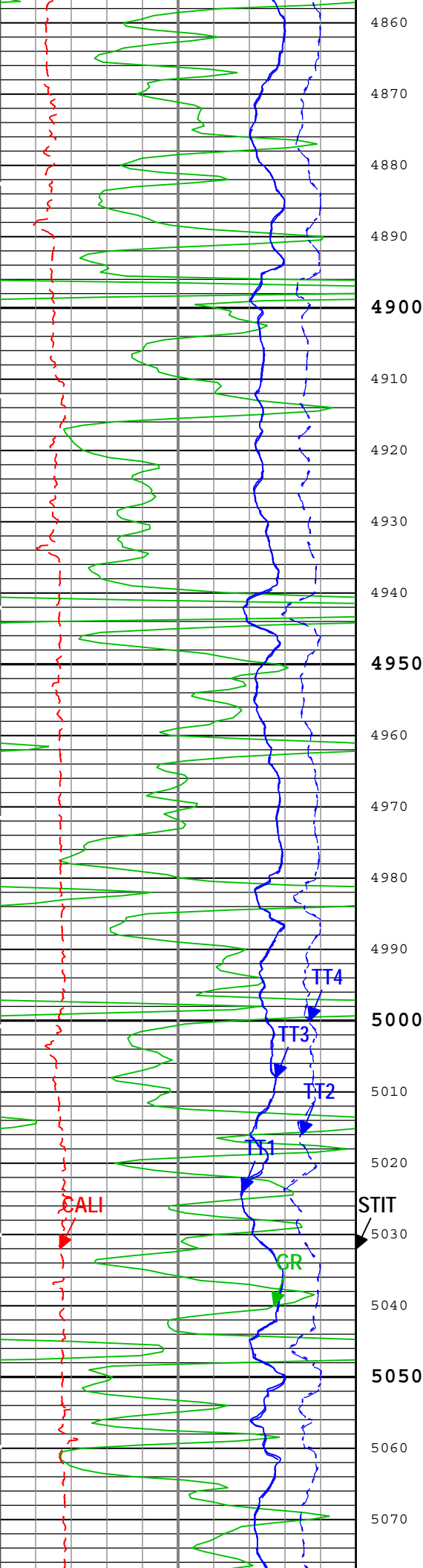
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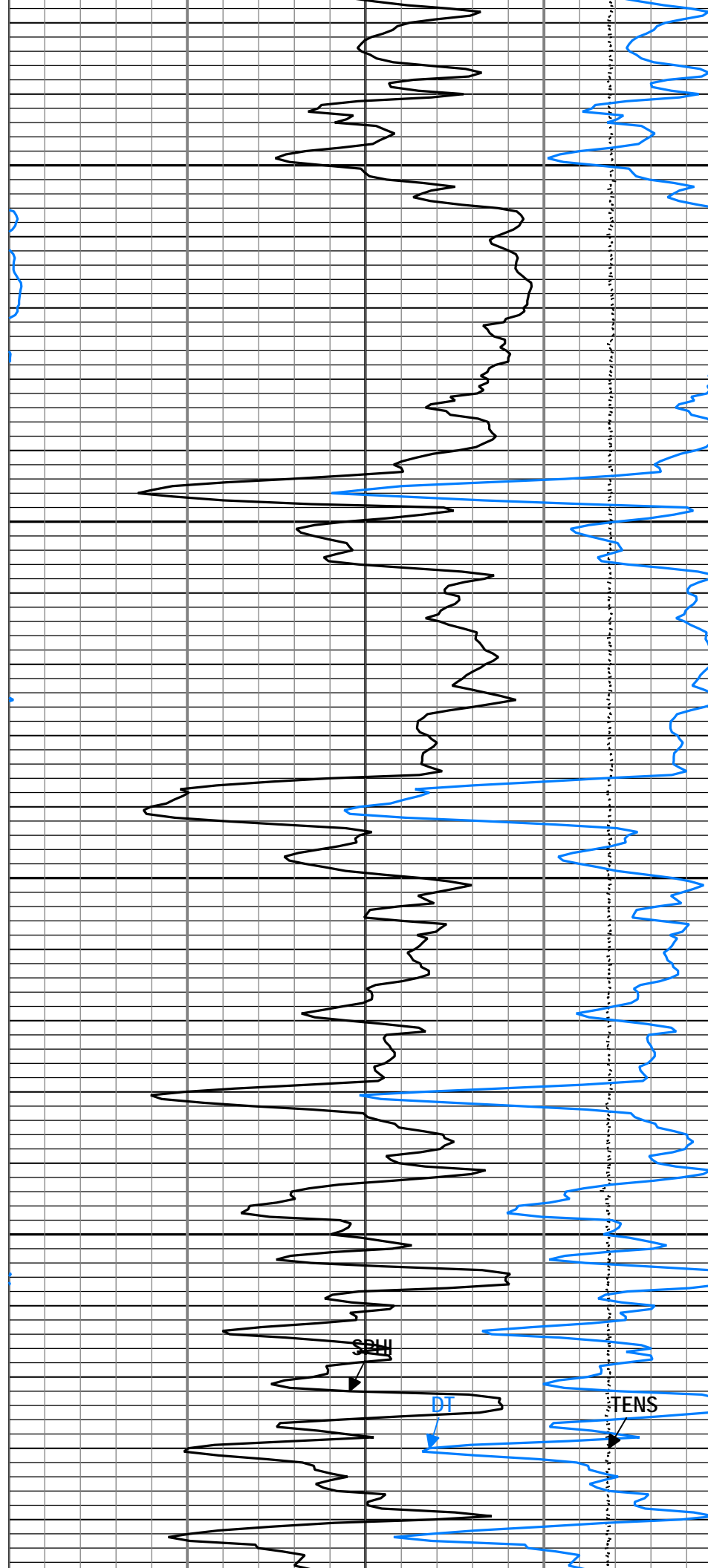
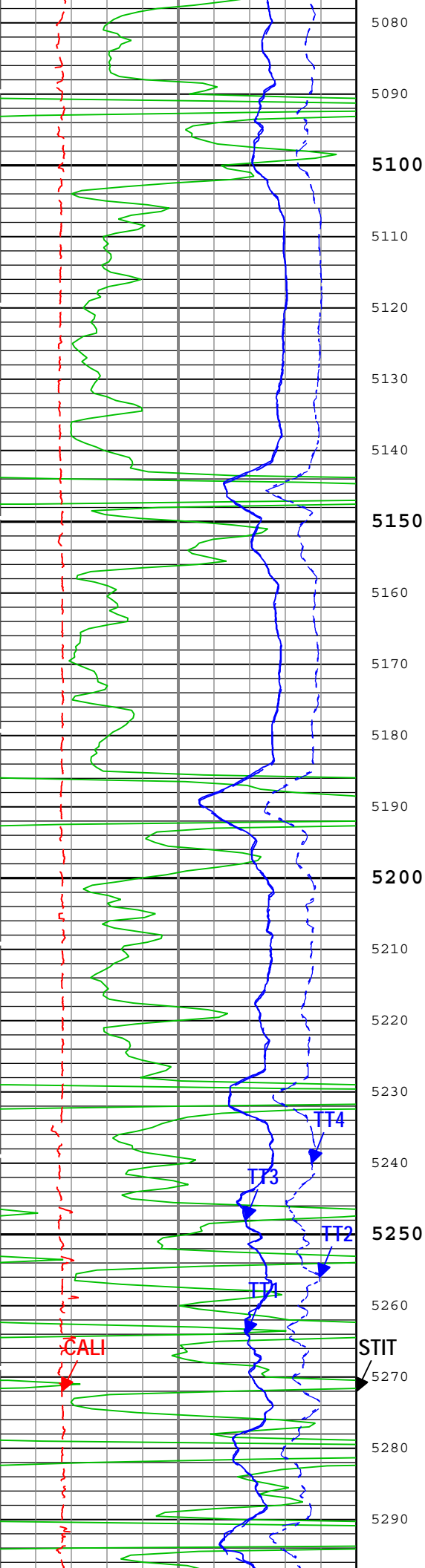
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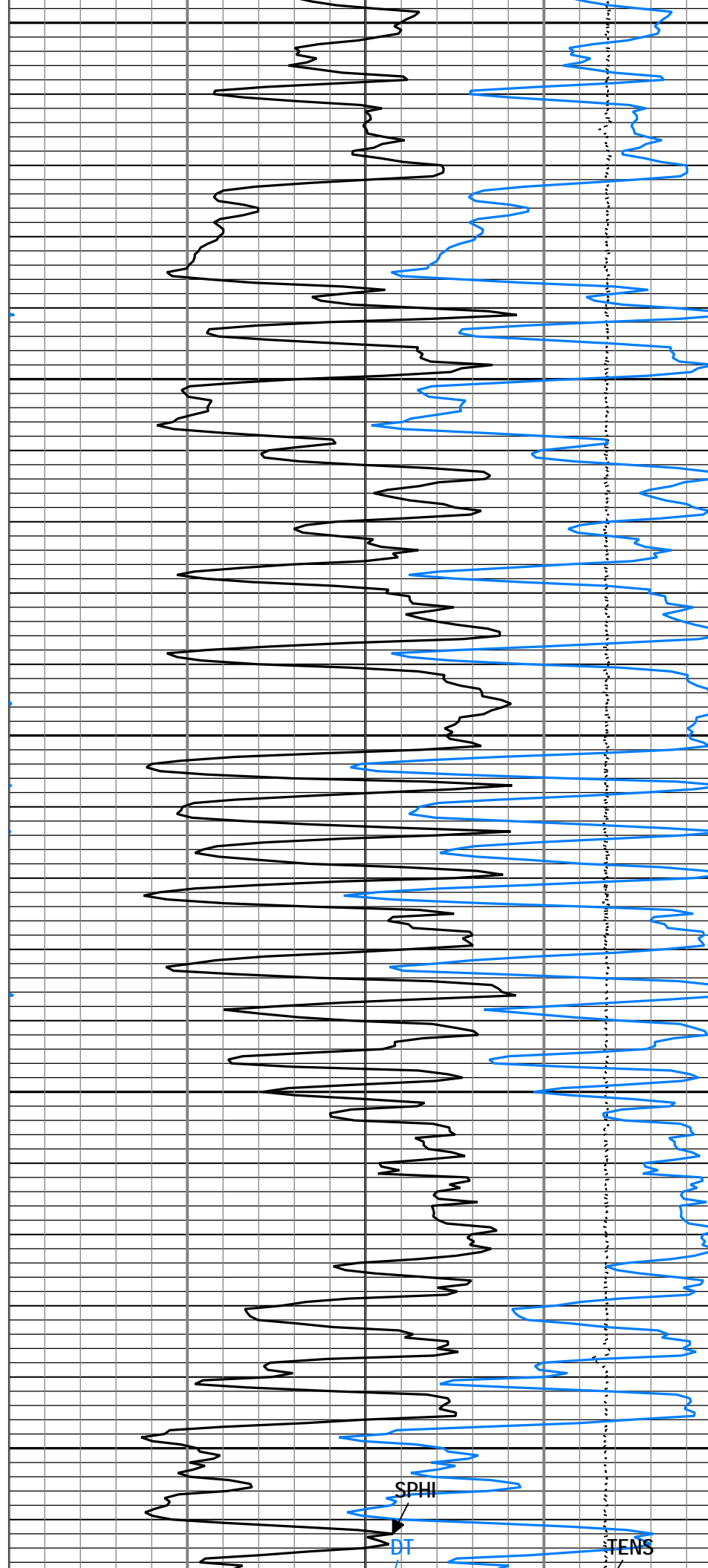
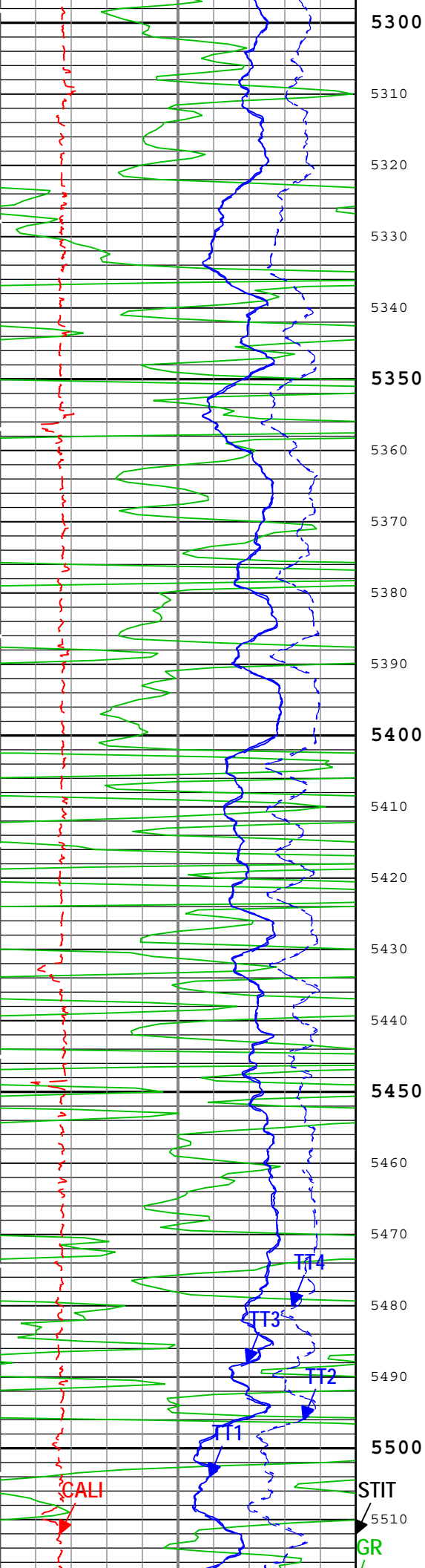


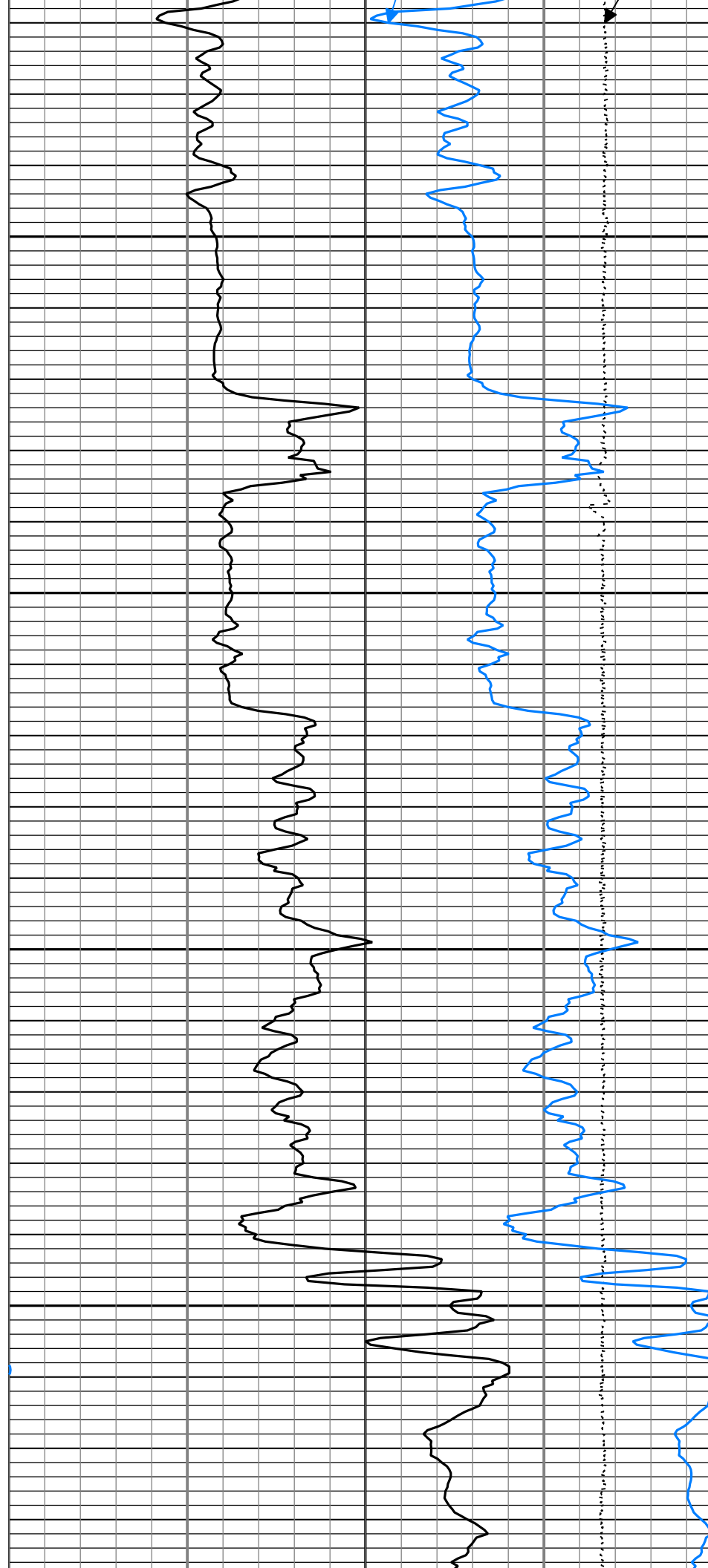
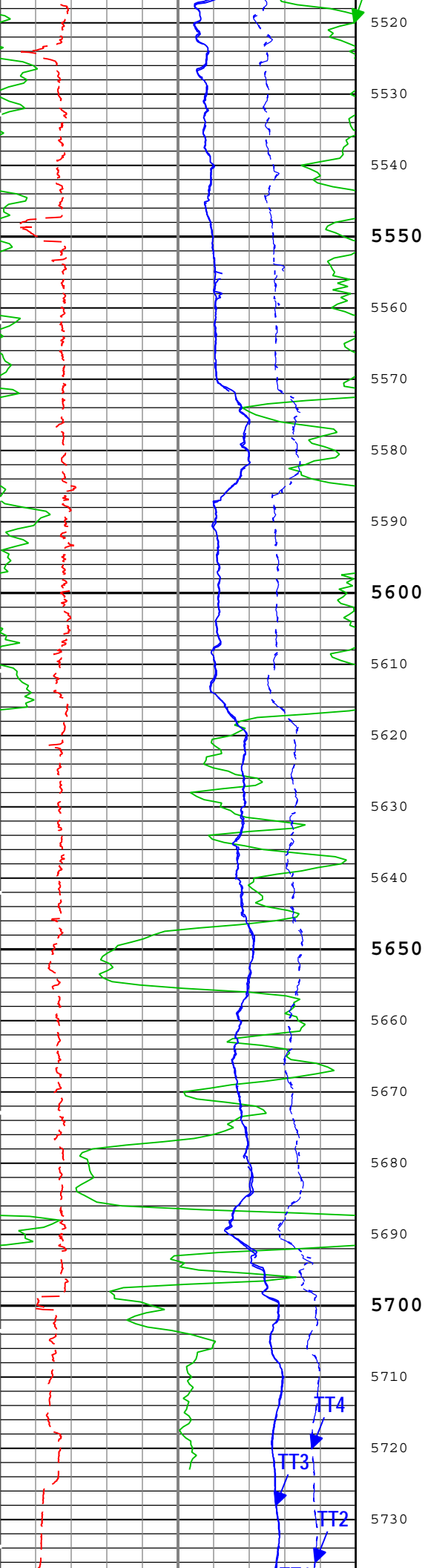


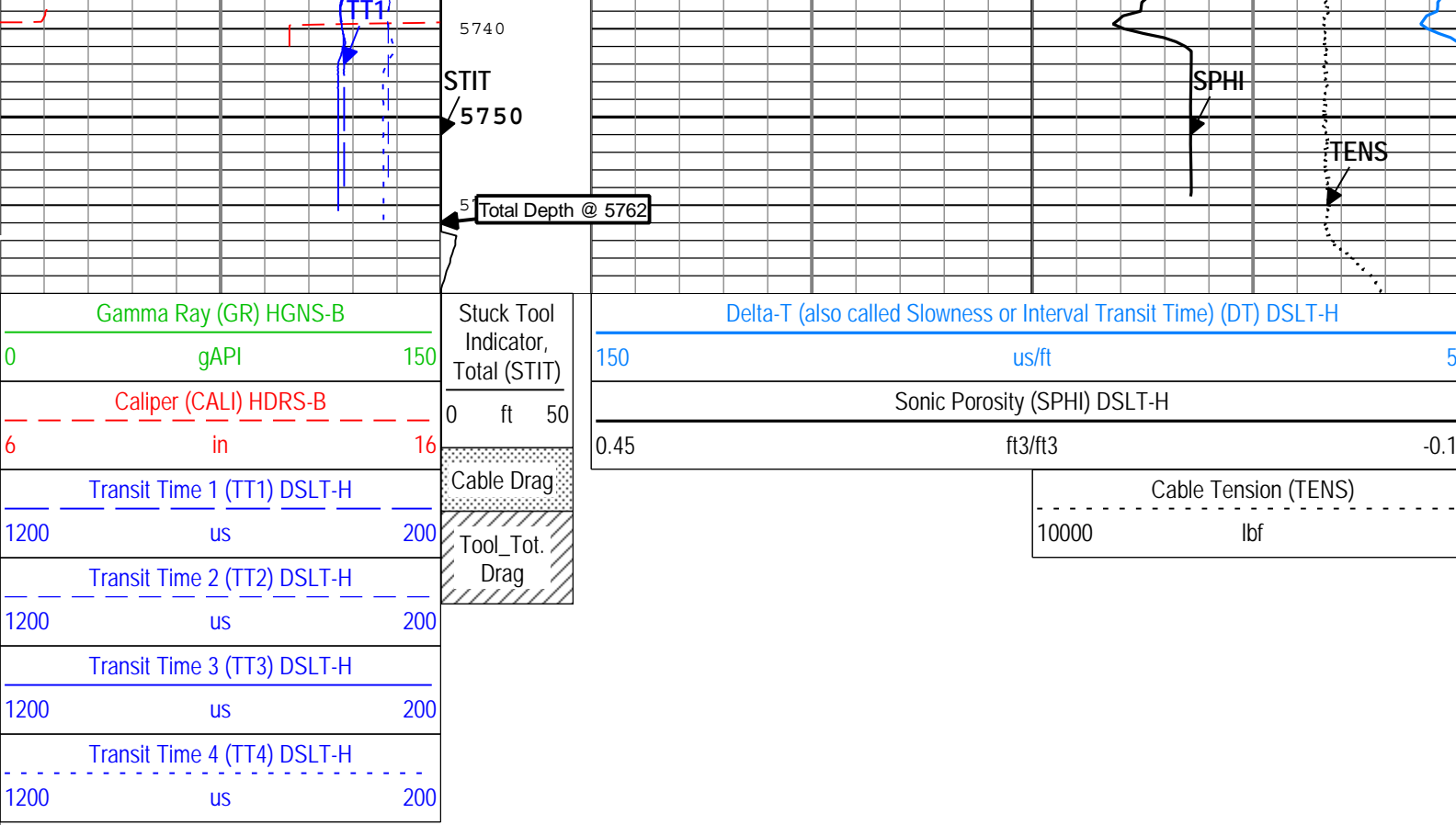












TIME_1900 - Time Marked every 60.00 (s)

Description: DSST P&S Format: Log (EMD Sonic DSST) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 04-Oct-2013 06:12:38

Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	7.875	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-B	0.2	in
CBLO	Casing Bottom (Logger)	WLSESSION	433	ft
CDEN	Cement Density	HGNS-B	2	g/cm3
CDTS	Correction for Delta-T Shale, Empirical	Borehole	100	us/ft
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DETE	Delta-T Detection	DSLTH	E2	
DFD	Drilling Fluid Density	Borehole	9.2	lbm/gal
DTCM	Delta-T Computation Mode	DSLTH	Full	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTM	Delta-T Matrix	Borehole	47.5	us/ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
MAHTR	Manual High Threshold Reference for first arrival detection	DSLTH	120	
MNHTR	Minimum High Threshold Reference for first arrival detection	DSLTH	100	
NMSG	Near Minimum Sliding Gate	DSLTH	140	us
SGAD	Sliding Gate Status	DSLTH	On	
SPFS	Sonic Porosity Formula	Borehole	Raymer-Hunt	
SPSO	Sonic Porosity Source	DSLTH	DT	
TD	Total Measured Depth	Borehole	5762	ft

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
DSLTT_MODE	DSLTT Acquisition Mode	DSLTT-H	BHC	
DSLTT_RATE	DSLTT Firing Rate	DSLTT-H	15 Hz	
DTFS	DSLTT Telemetry Frame Size	DSLTT-H	536	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

Company: Vecta Oil & Gas LTD

Schlumberger

Well: Snowmass 32-32

Field: Wildcat

County: Cheyenne

State: Colorado

Platform Express

Sonic