

Company: Vecta Oil & Gas LTD

Well: Crestone

Field: Wildcat

County: Cheyenne

State: Colorado

Platform Express																			
Sonic																			
										Location:					NWSE Sec 17, Twn 14s, Rng 47w		Elev.	K.B.	4265.00 ft
										SHL: 2156' FSL, 2099' FEL					G.L.		4255.00 ft		
										Lat 38.828900, Long -102.692470					D.F.		4264.00 ft		
Permanent Datum:					Ground Level		Elev.:		4255.00 f										
Log Measured From:					Kelly Bushing		10.00 ft		above Perm.Datum										
Drilling Measured From:					Kelly Bushing														
API Serial No.			Section:		Township:		Range:												
05-017-07717-0000			17		14S		47W												
Logging Date			03-Nov-2012																
Run Number			Run 1																
Depth Driller			5468.00 ft																
Schlumberger Depth			5464.00 ft																
Bottom Log Interval			5456.00 ft																
Top Log Interval			432.00 ft																
Casing Driller Size @ Depth			8.625 in @ 434.00 ft																
Casing Schlumberger			432 ft																
Bit Size			7.875 in																
Type Fluid In Hole			Chemical Gel																
Density			9.3 lbm/gal		69 s														
Fluid Loss			PH																
MUD			Source of Sample		Active Tank														
RM @ Meas Temp			1.1 ohm.m @ 68 degF																
RMF @ Meas Temp			1.82 ohm.m @ 86 degF																
RMC @ Meas Temp			1.65 ohm.m @ 86 degF																
Source RMF			RMC		Calculated														
RM @ BHT			RMF @ BHT		0.53 @ 148		1.09 @ 148												
Max Recorded Temperatures			148.95 degF																
Circulation Stopped			Time		03-Nov-2012		10:30:00												
Logger on Bottom			Time		03-Nov-2012		17:30:21												
Unit Number			Location:		2135		Fort Morgan												
Recorded By			Megan Leone																
Witnessed By			Ryan Scribner																

Well Sketch

Driller Depth
0.00 ft

434.00 ft

Casing 8.625in
24lbm/ft

5468.00 ft

Open Hole 7.875in

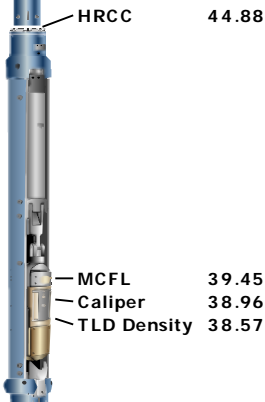
Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	7.875					
Top Driller (ft)	434					
Top Logger (ft)	432					
Bottom Driller (ft)	5468					
Bottom Logger (ft)	5464					
Casing						
Size (in)	8.625					
Weight (lbm/ft)	24					
Inner Diameter (in)	8.099					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	434					
Bottom Logger (ft)	432					

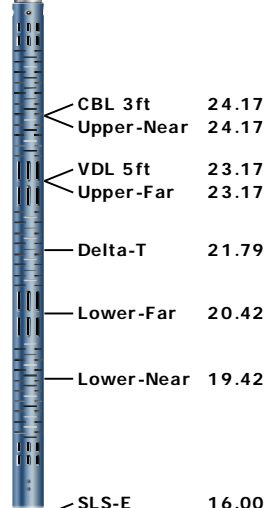
Remarks and Equipment Summary

Run 1: Toolstring				Run 1: Remarks	
Equip name	Length	MP name	Offset	This is the first run in hole	
LEH-QT	64.21			Toolstring run as per tool sketch	
LEH-QT				Limestone Matrix 2.71 g/cc	
DT C-H	61.29			Operators: Ian Derry and Troy Ocanas	
ECH-KC		CTEM	60.39		
DTC-H		HV	0.00		
		TelStatus	58.29		
		ToolStatus	58.29		
HGNS-H	58.29	Temperature	58.26		
HGNH:3823					
NPV-N		GR	57.55		
NSR-F:5215					
HACCZ-H:5736					
HMCA-H					
HGNS-H					
		CNL Porosity	51.21		
		HMCA	48.88		
		HGNS	48.88		
		Accelerometer	0.00		
HDRS-H	48.88				
ECH-MEB					
HRCC-H					
HRMS-H					

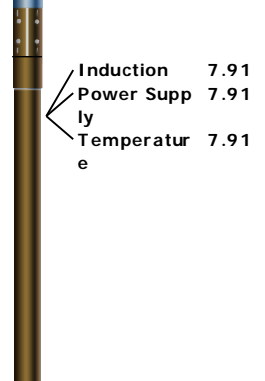
Long Spacing:28
732
Short Spacing:27
634
GSR-J:5240
Backscatter
GPV-Q
HRGD-H:3816



DSLT-H:8318 36.64
ECH-KH
DSLH-H:8318
SLS-E:165



AIT-H:392 16.00
AHIS:392
AHRM:392



			
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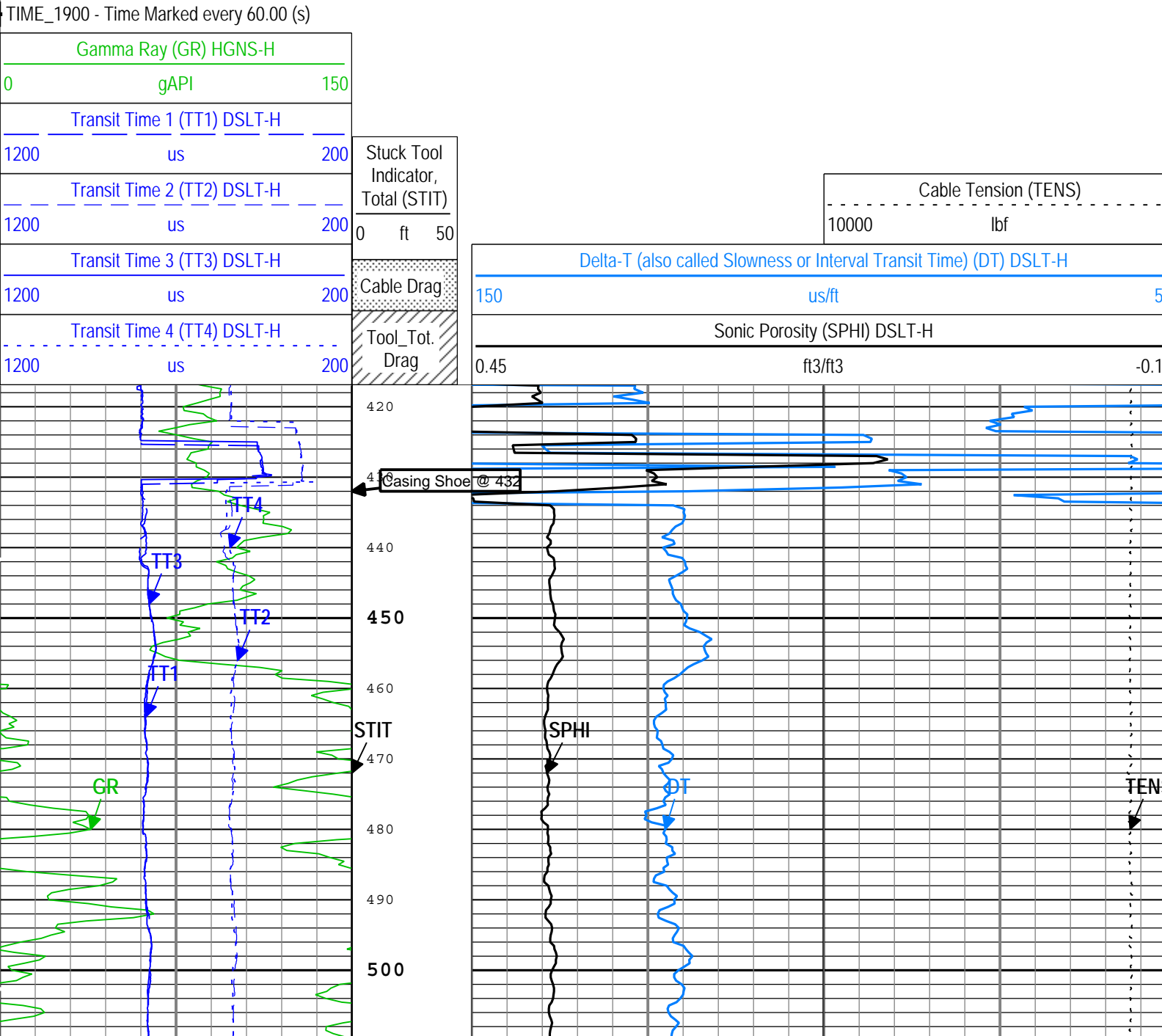
Depth Summary			
Depth Control Parameters		Run 1	
Conveyance Type		Wireline	
Log Sequence		This is the first run in the hole	
Stretch Correction (ft)		4.00	
Rig Type		Land	
Depth Remark Parameters		Run 1	
Depth Remark 1		All Schlumberger depth control procedures followed	
Depth Remark 2		IDW primary depth control device. Z-chart secondary depth control device	
Depth Measuring Device		Run 1	
Type		IDW-B	
Wheel Correction 1		1	
Wheel Correction 2		0	
Tension Device		Run 1	
Type		CMTD-B/A	
Calibration Points		0	
Logging Cable		Run 1	
Type		7-46NT-XS	
Logging Cable Length (ft)		24000.00	

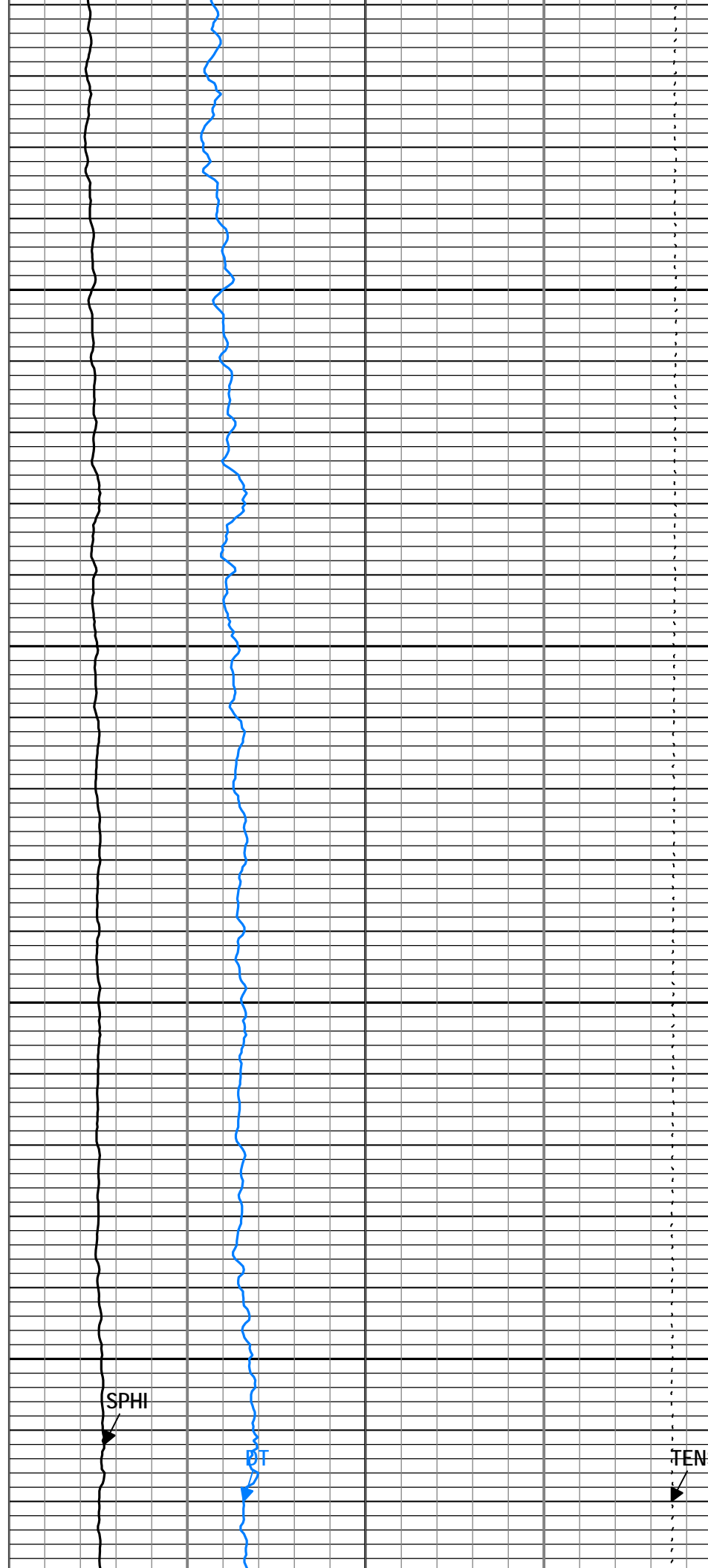
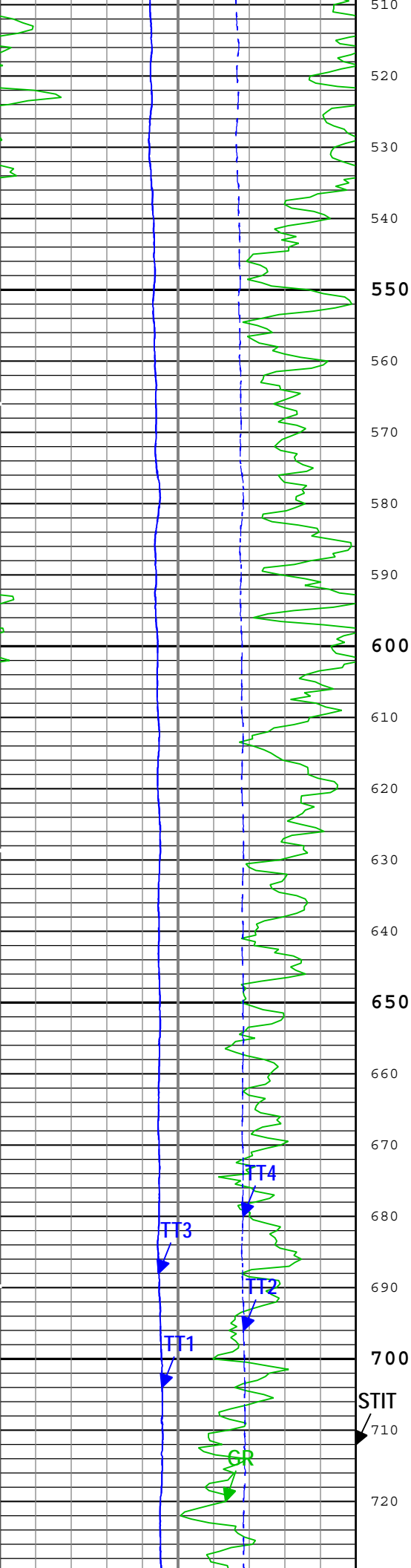
Run 1			

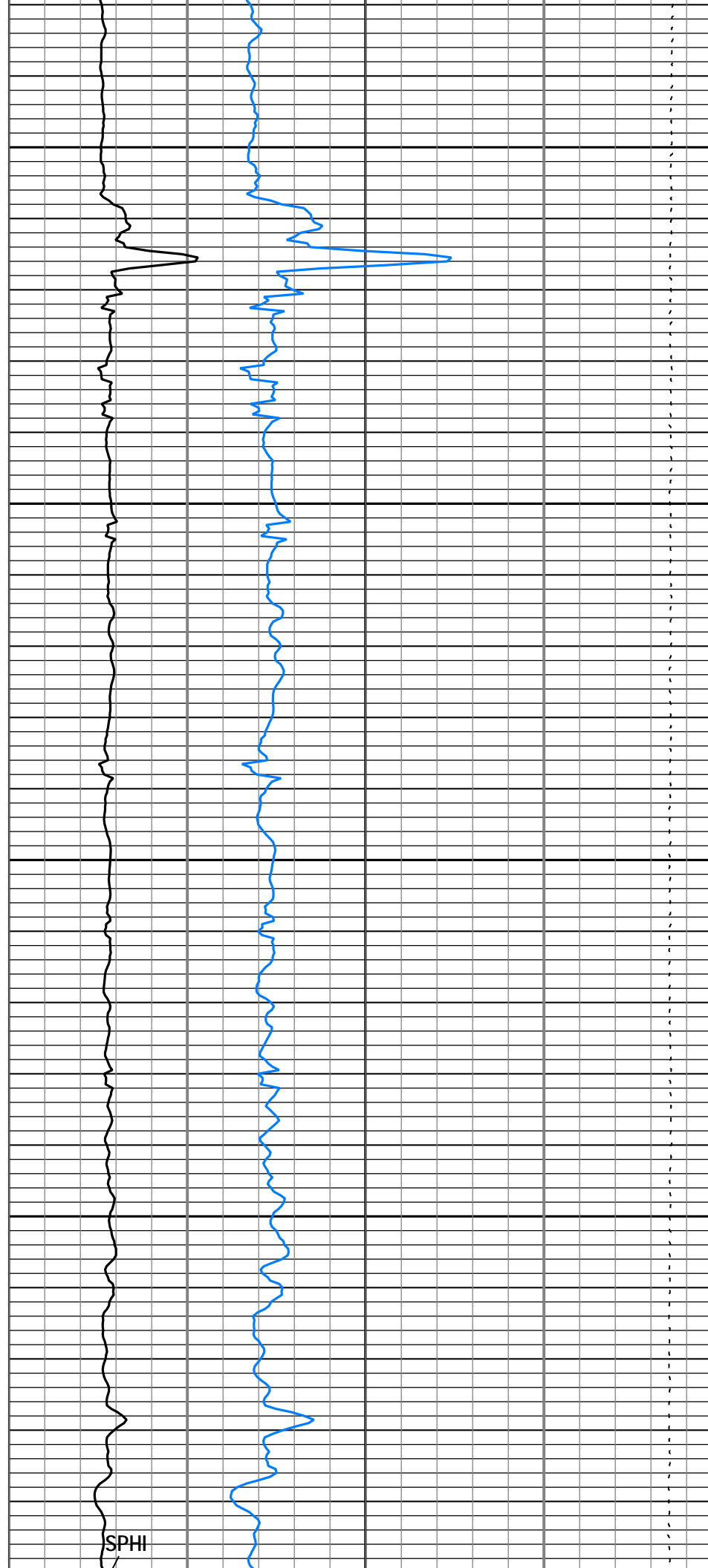
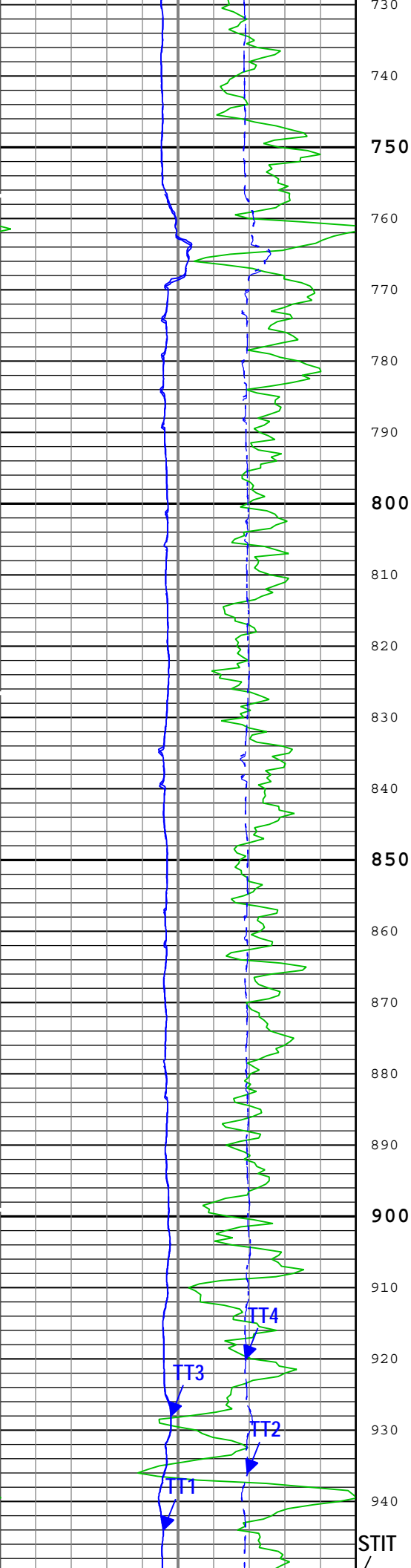
Integration Summary				
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
Software Version				
Acquisition System			Version	
MaxWell			3.1.9755.0	
Application Patch			SP-20120723-3.1.9755.1112	
			EXP_APL-MASTAXIS-3.1.9755.1221	
Computation	Description			Version
Sonic Openhole Ensemble	Sonic Openhole Ensemble			3.1.9755.1112
DepthCorrection	DepthCorrection			3.1.9755.0
Tool Elements	Description		Software Version	Firmware Version
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC		3.1.9755.0	2.0
SLS-E	Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL		3.1.9755.1112	4.0

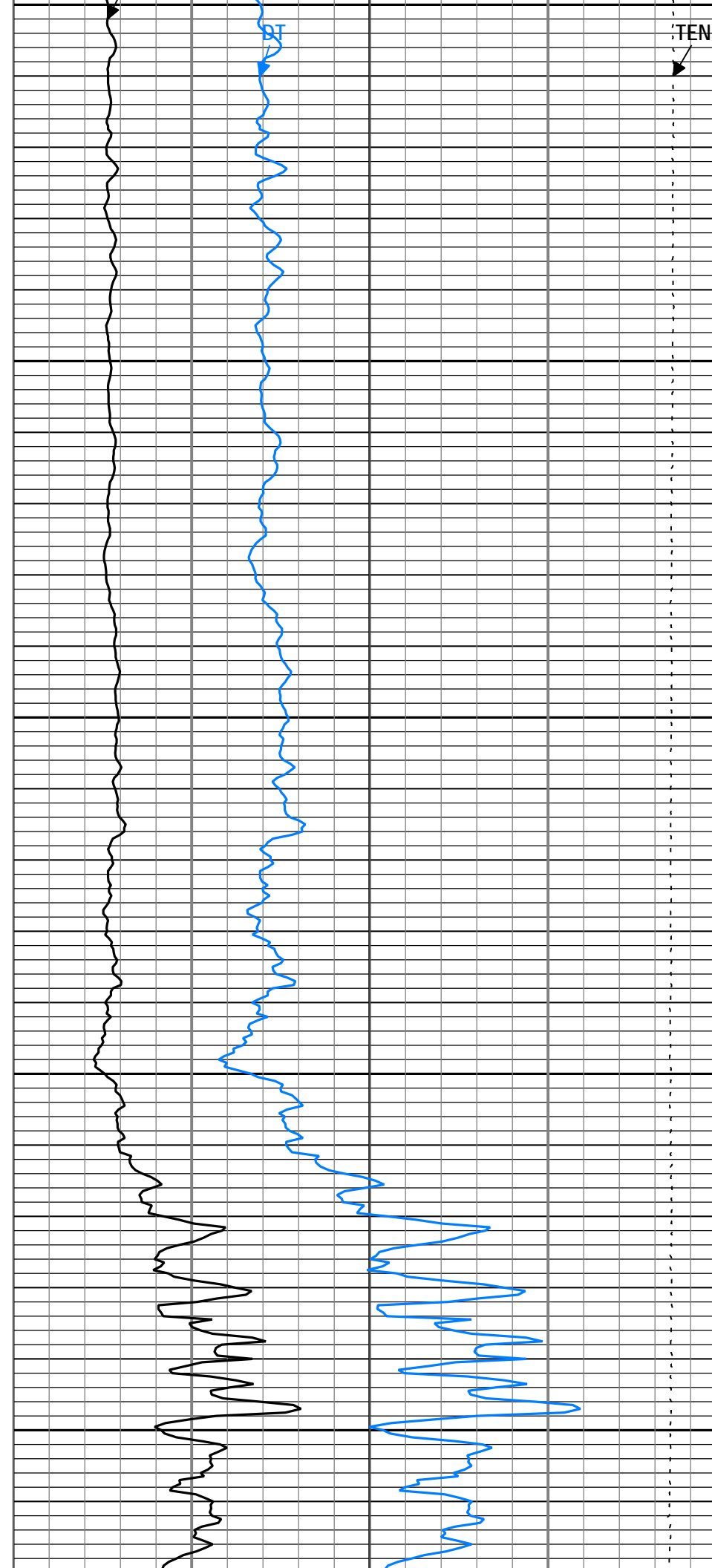
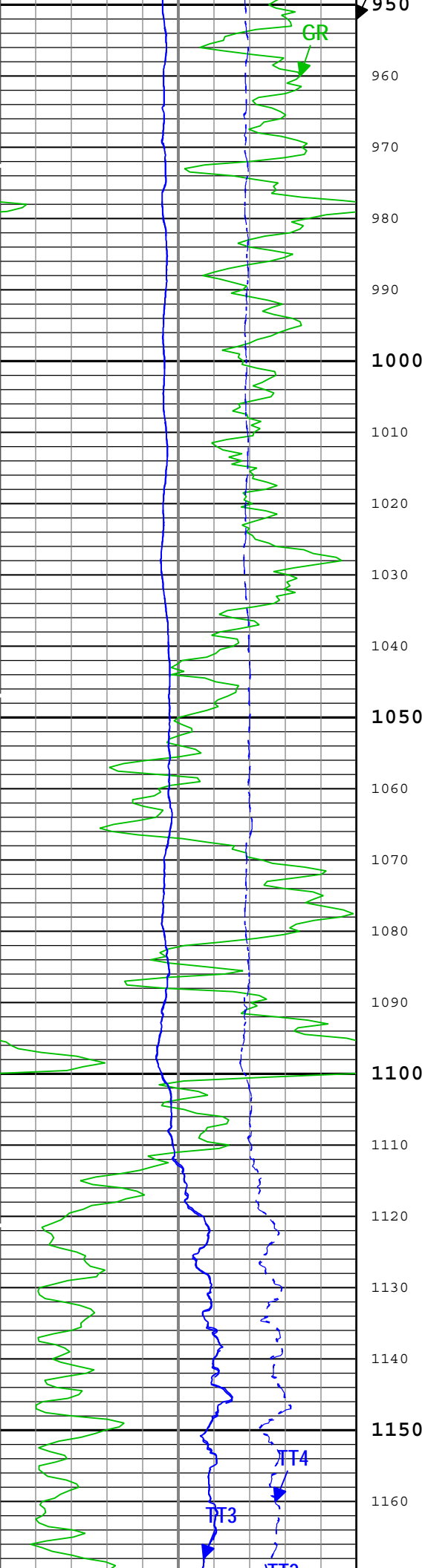
Pass Summary								
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data

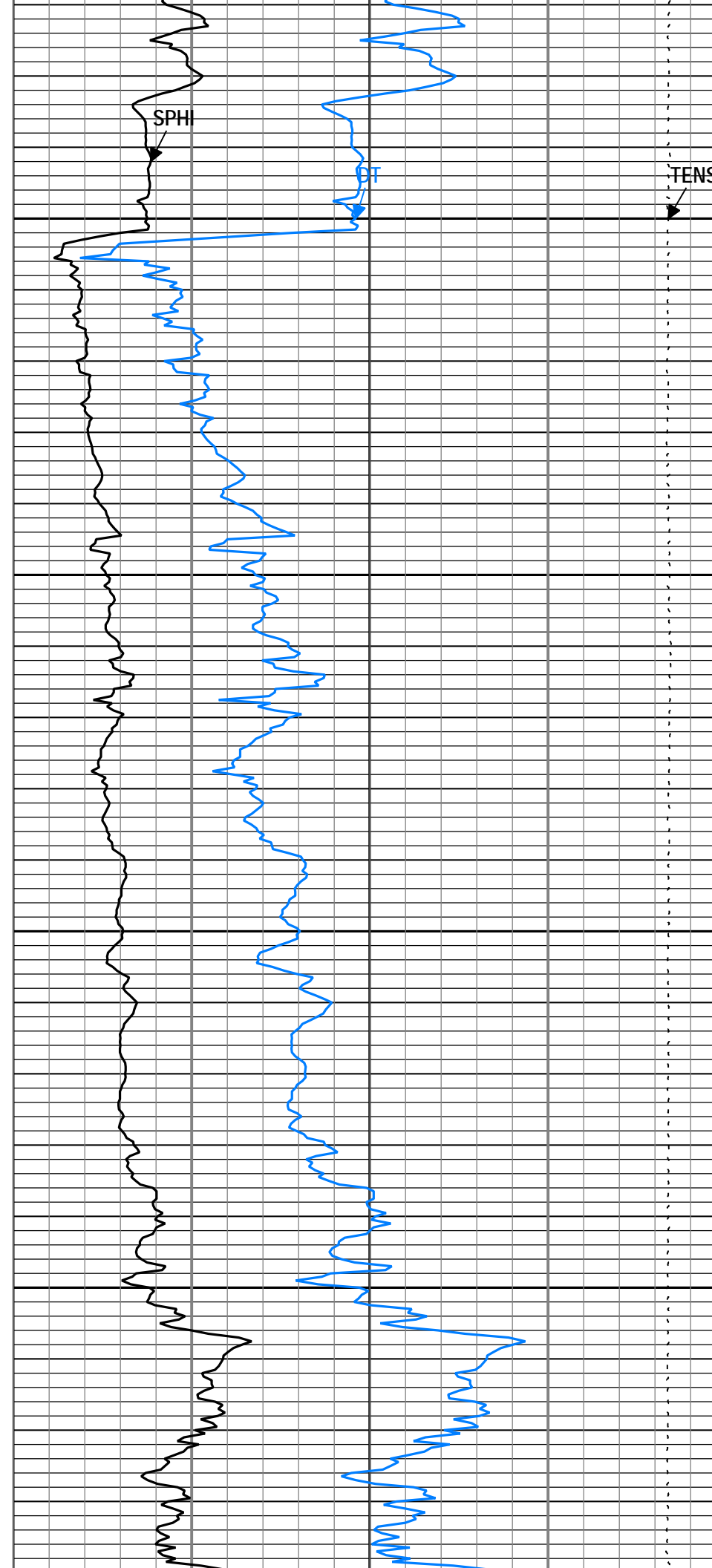
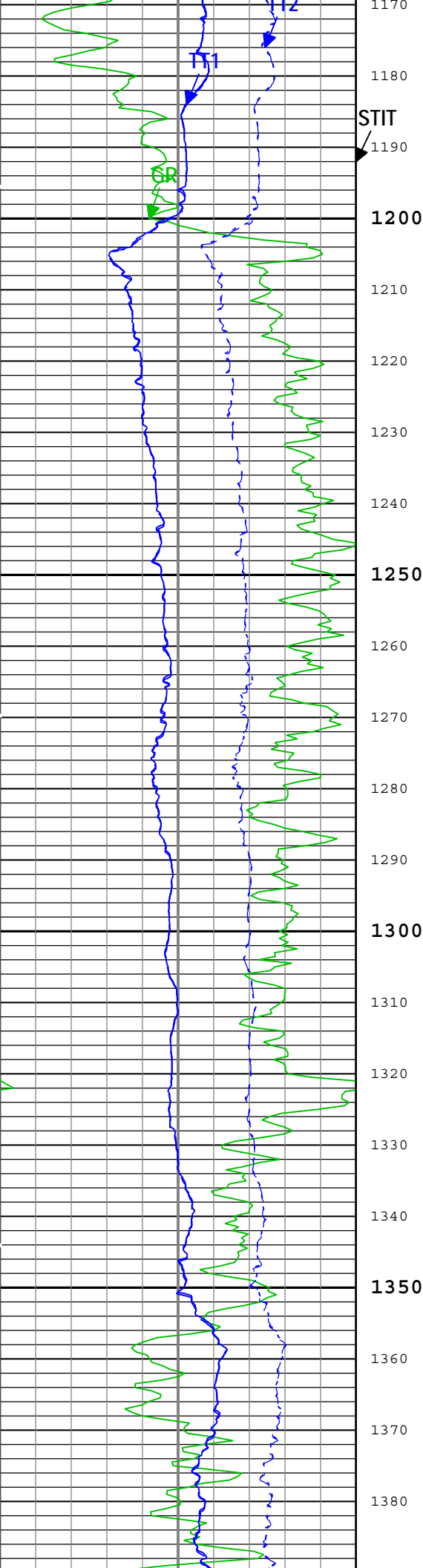
Run 1	Log[3]:Up	Up	349.28 ft	5480.21 ft	03-Nov-2012 5:57:47 PM	03-Nov-2012 7:44:15 PM	0.00 ft	Data
All depths are referenced to toolstring zero								
Log	Run 1: Log[3]:Up							
Description: DSST P&S Format: Log (EMD Sonic DSST) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 03-Nov-2012 19:55:43								
Channel	Source	Sampling						
DT	DSLT-H:SLS-E:SLS-E	6in						
GR	HGNS-H:HGNS-H:HGNS-H	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						

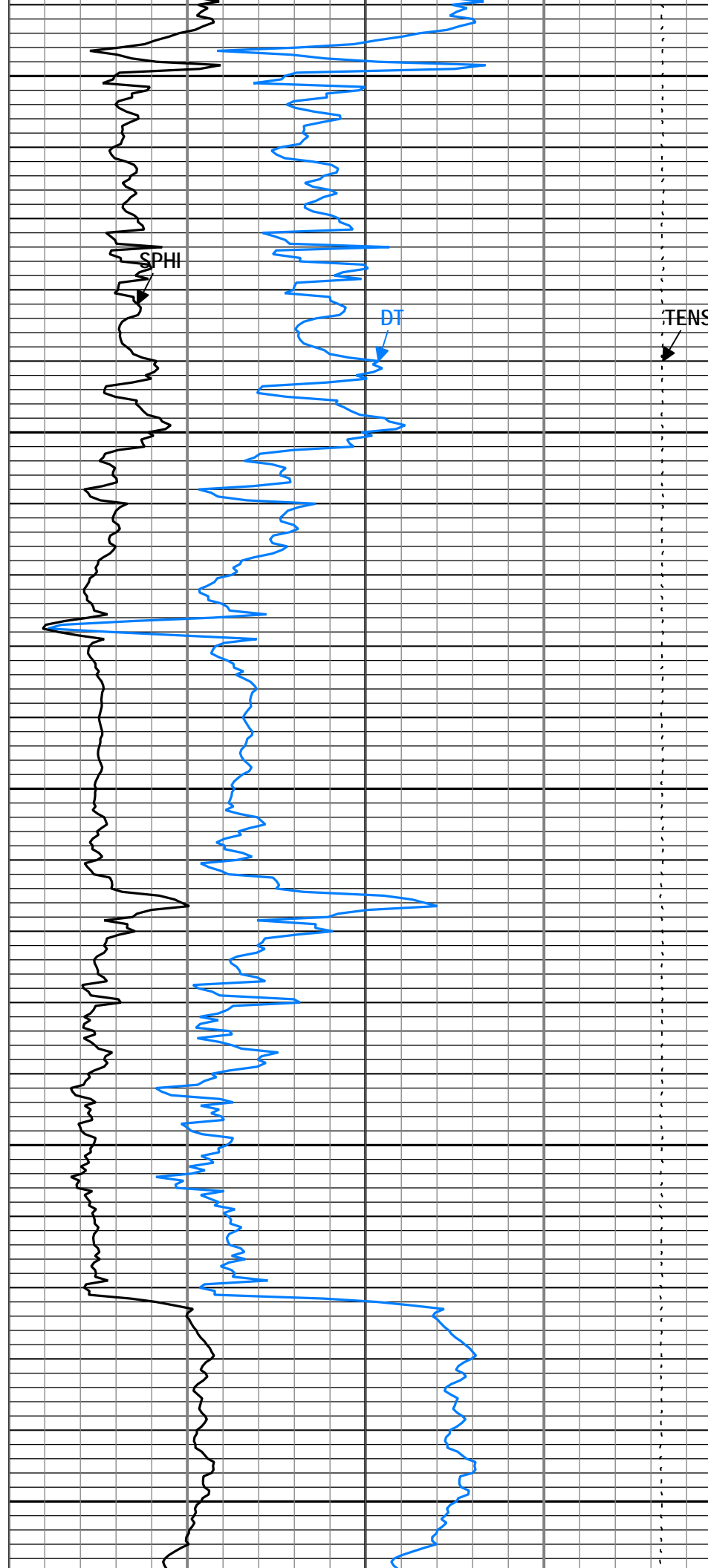
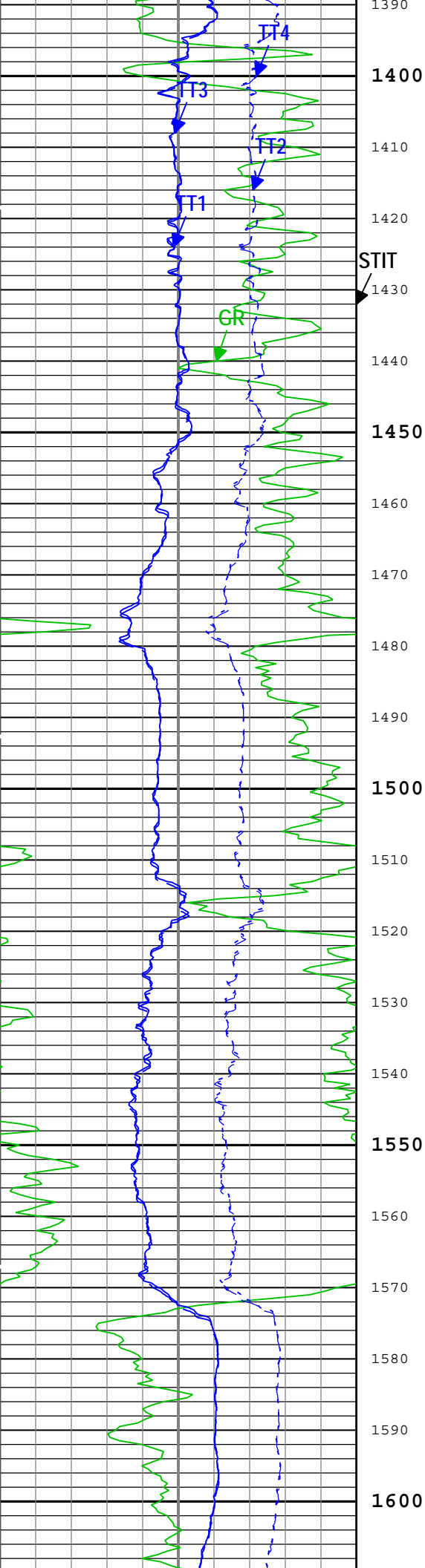


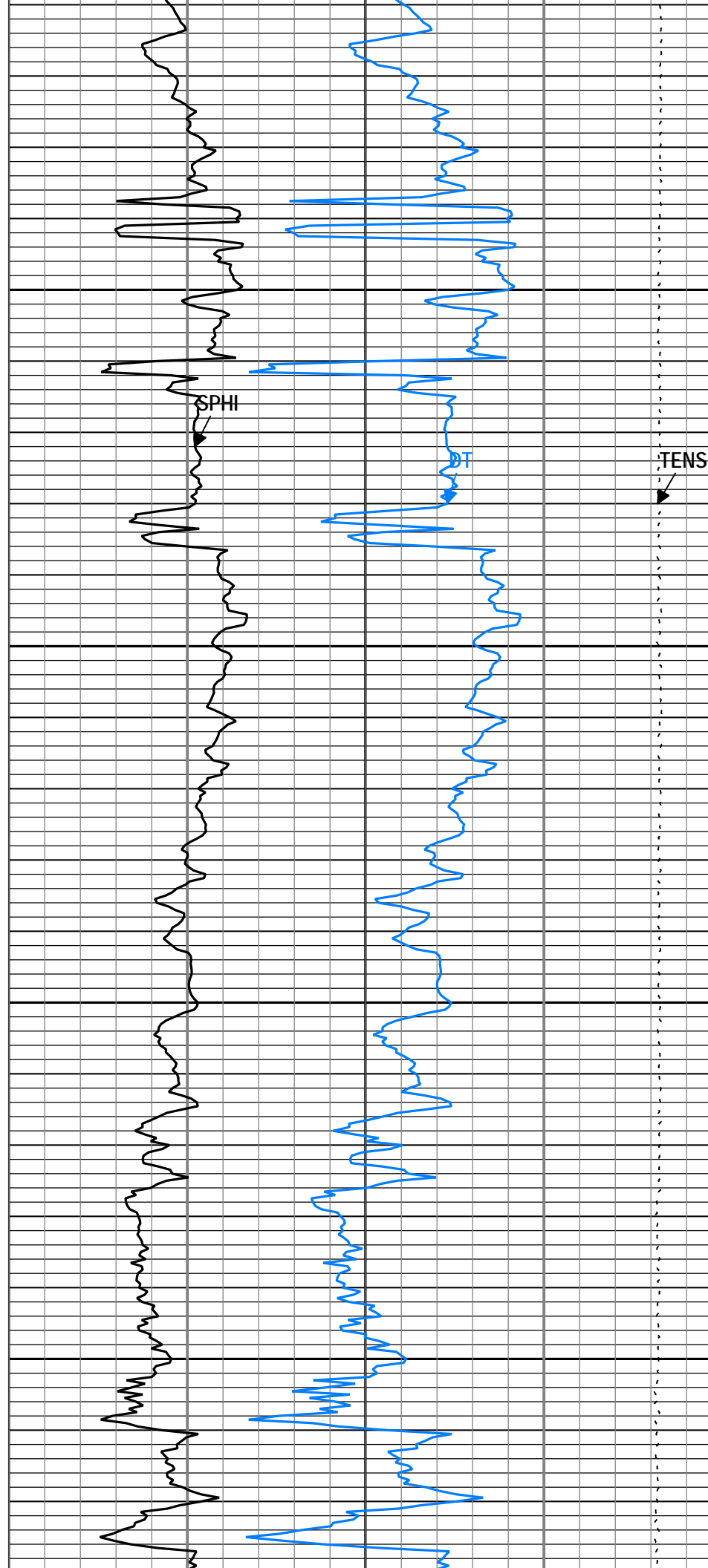
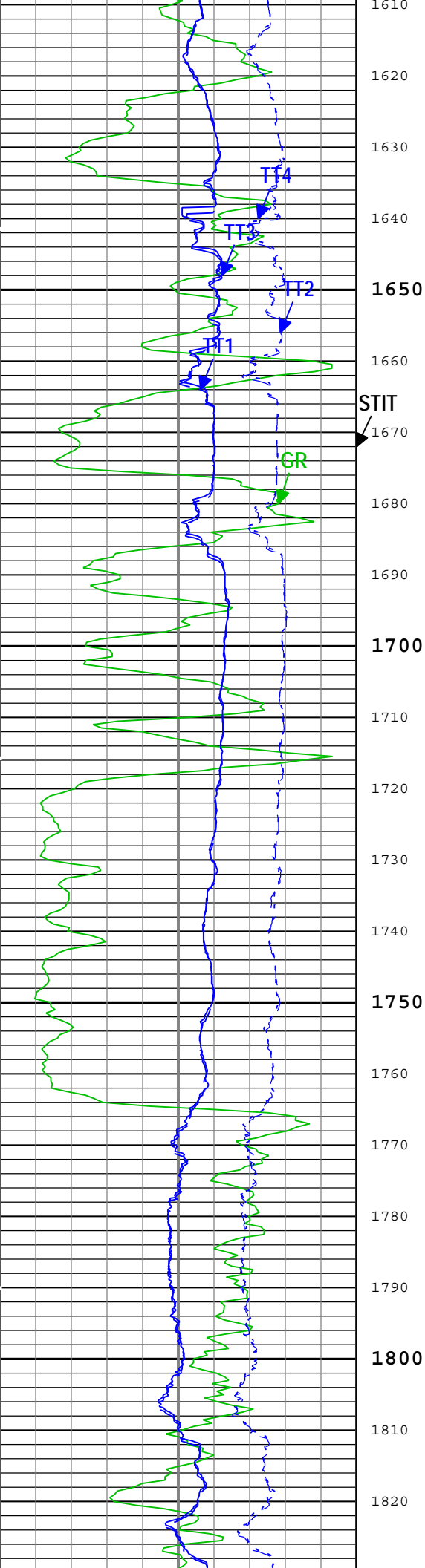


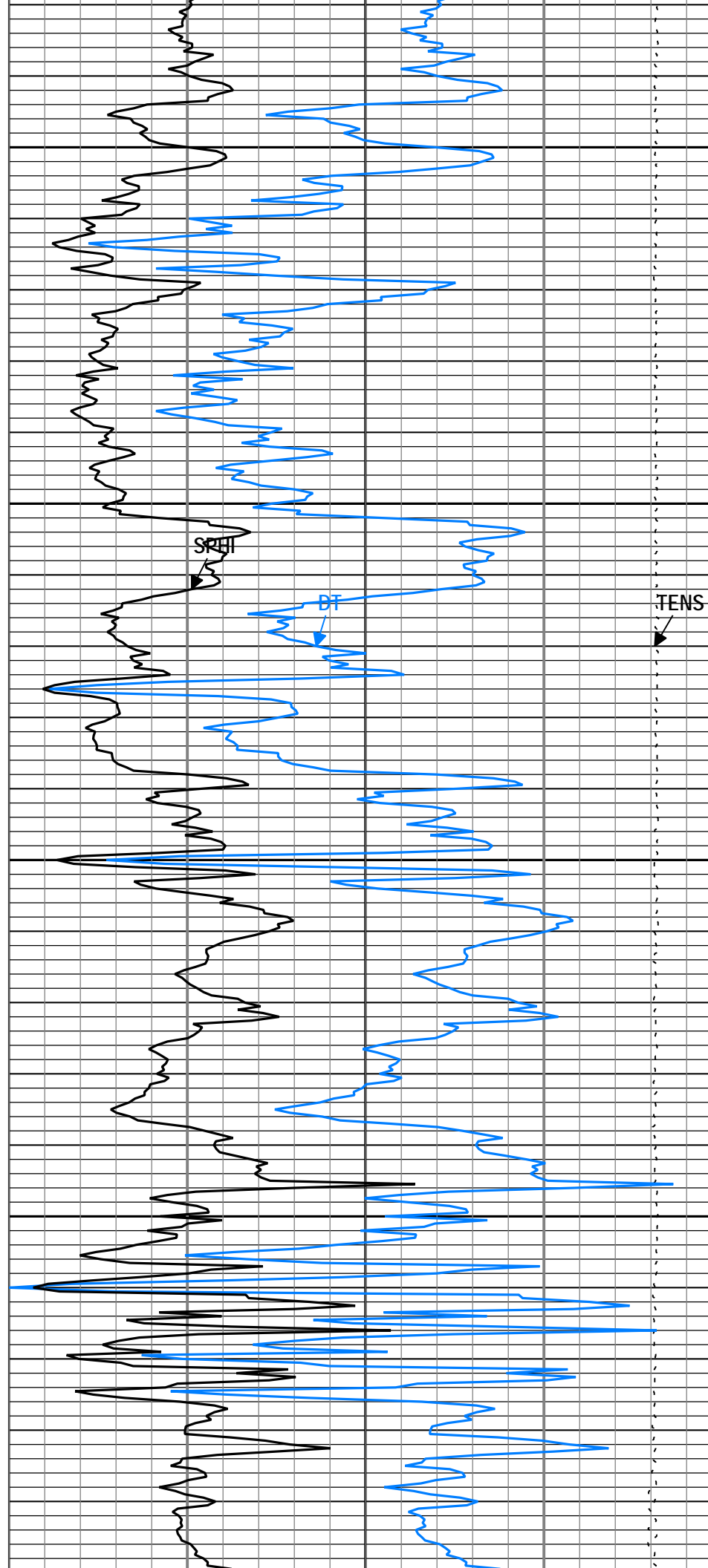
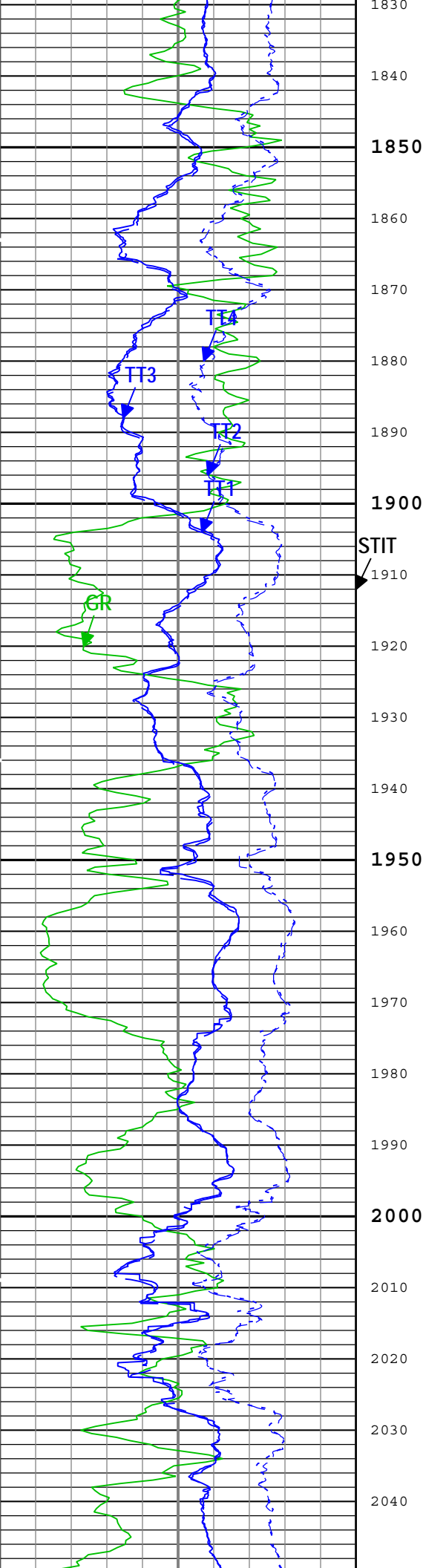


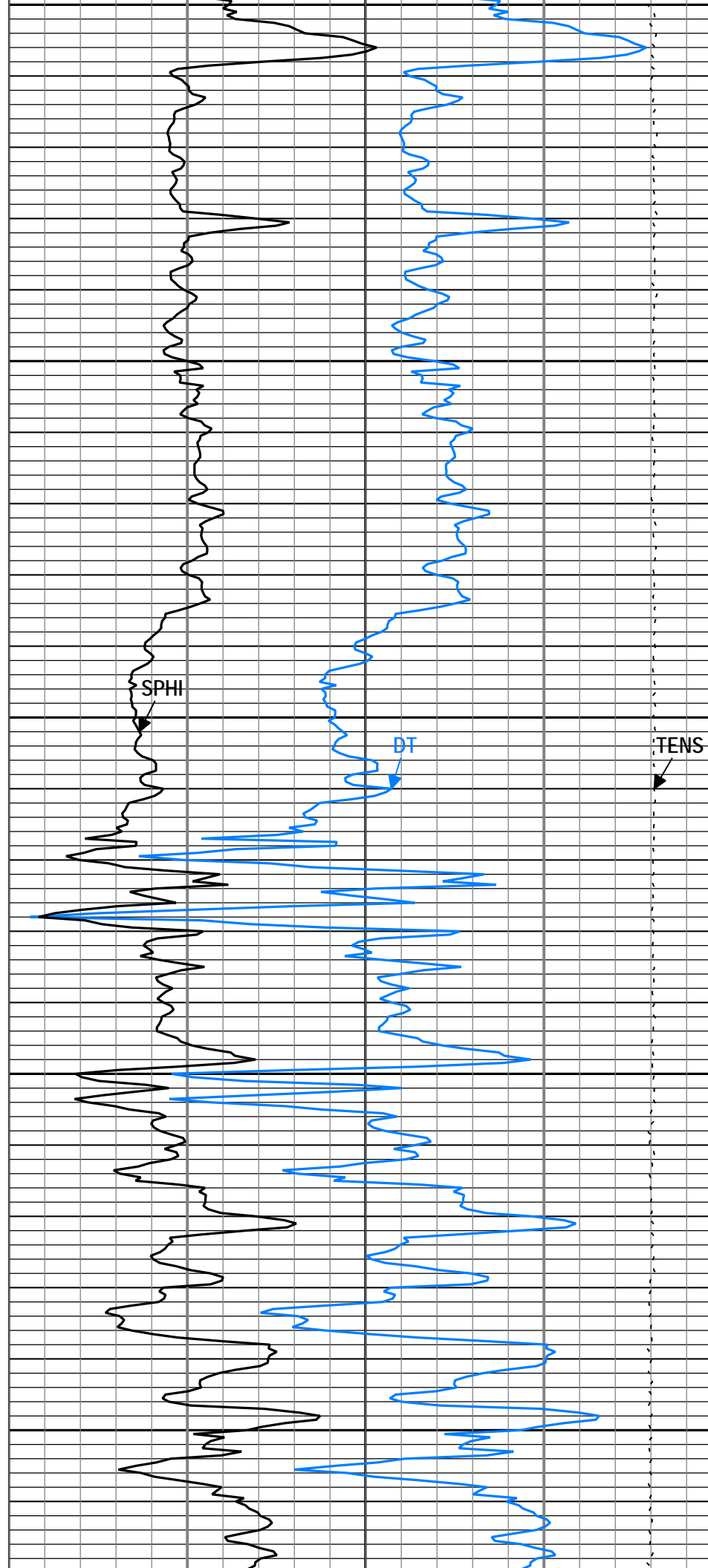
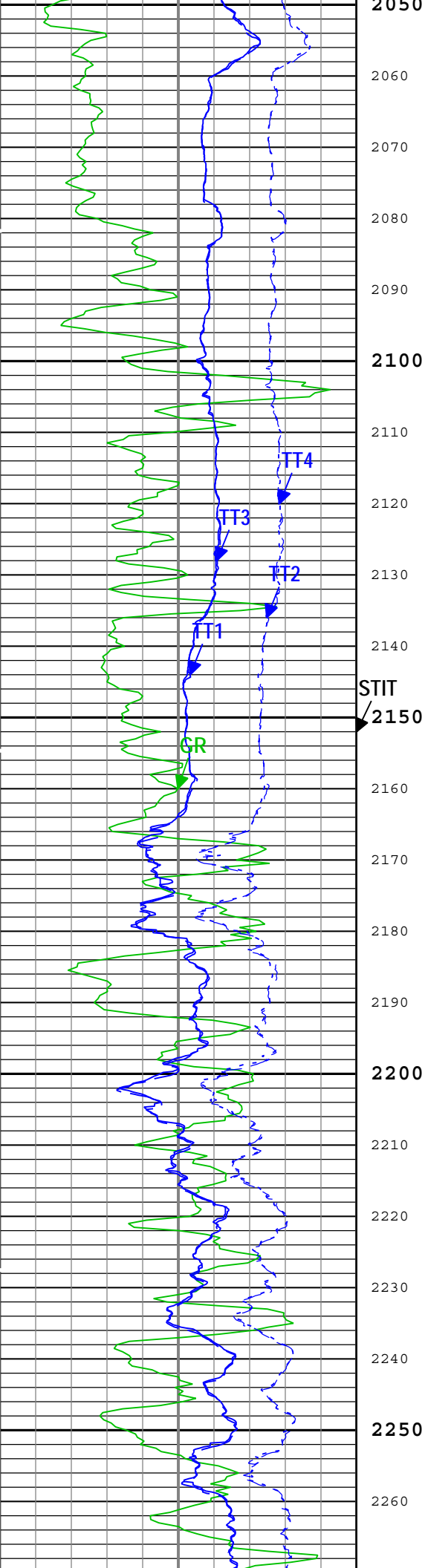


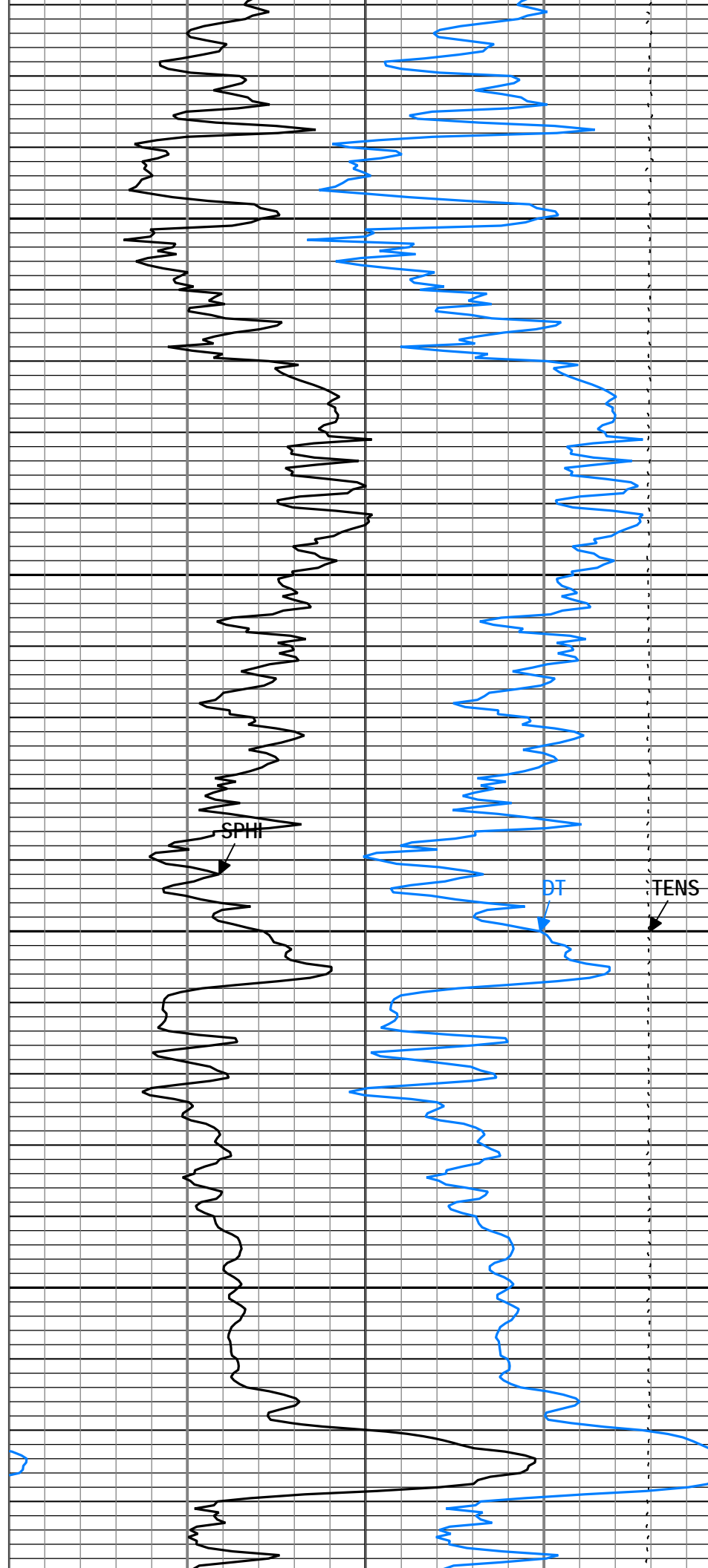
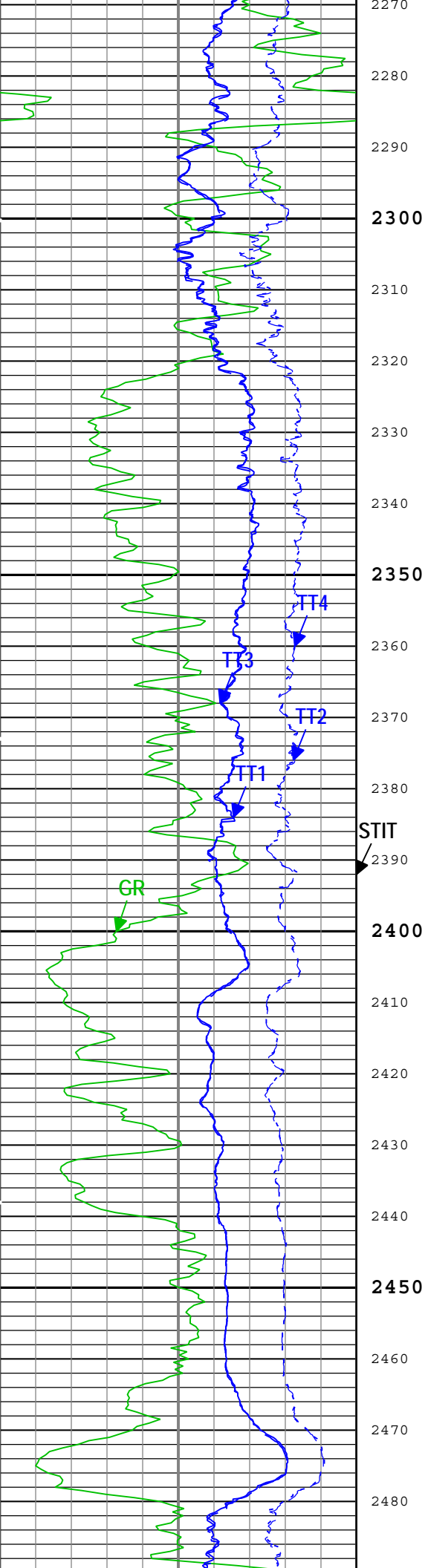


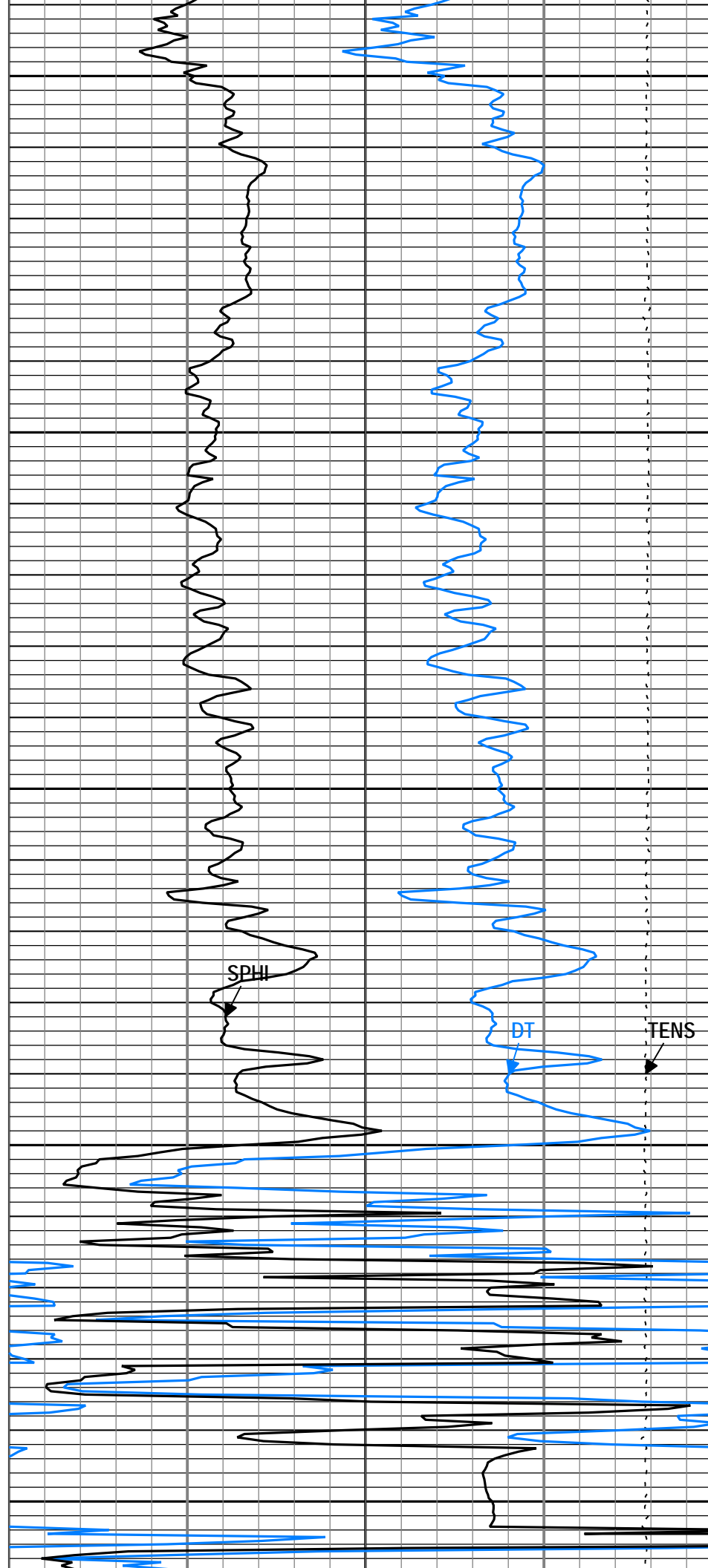
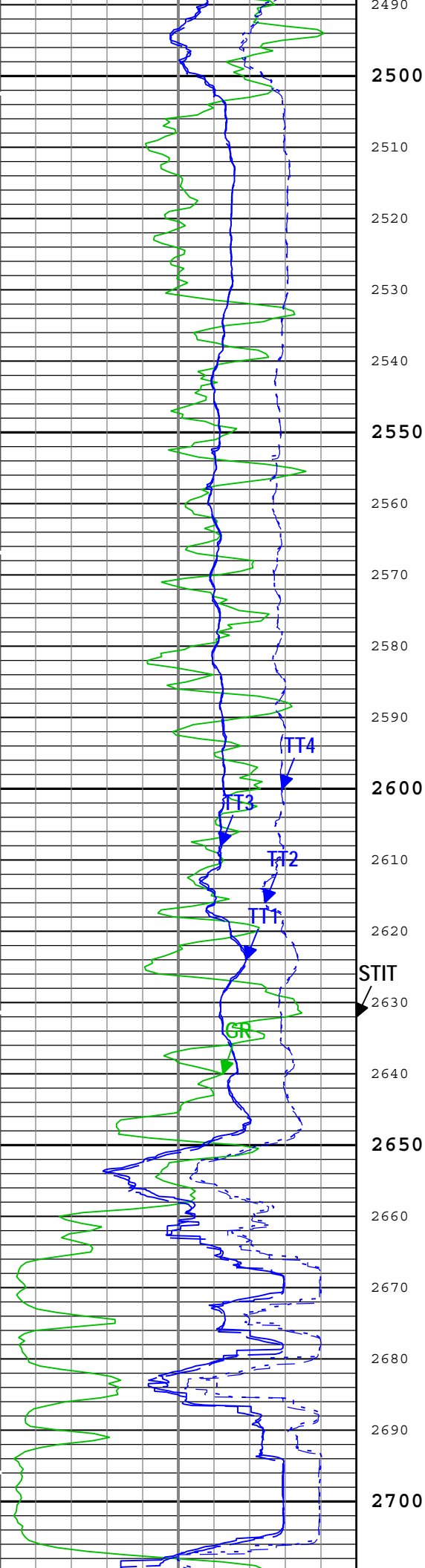


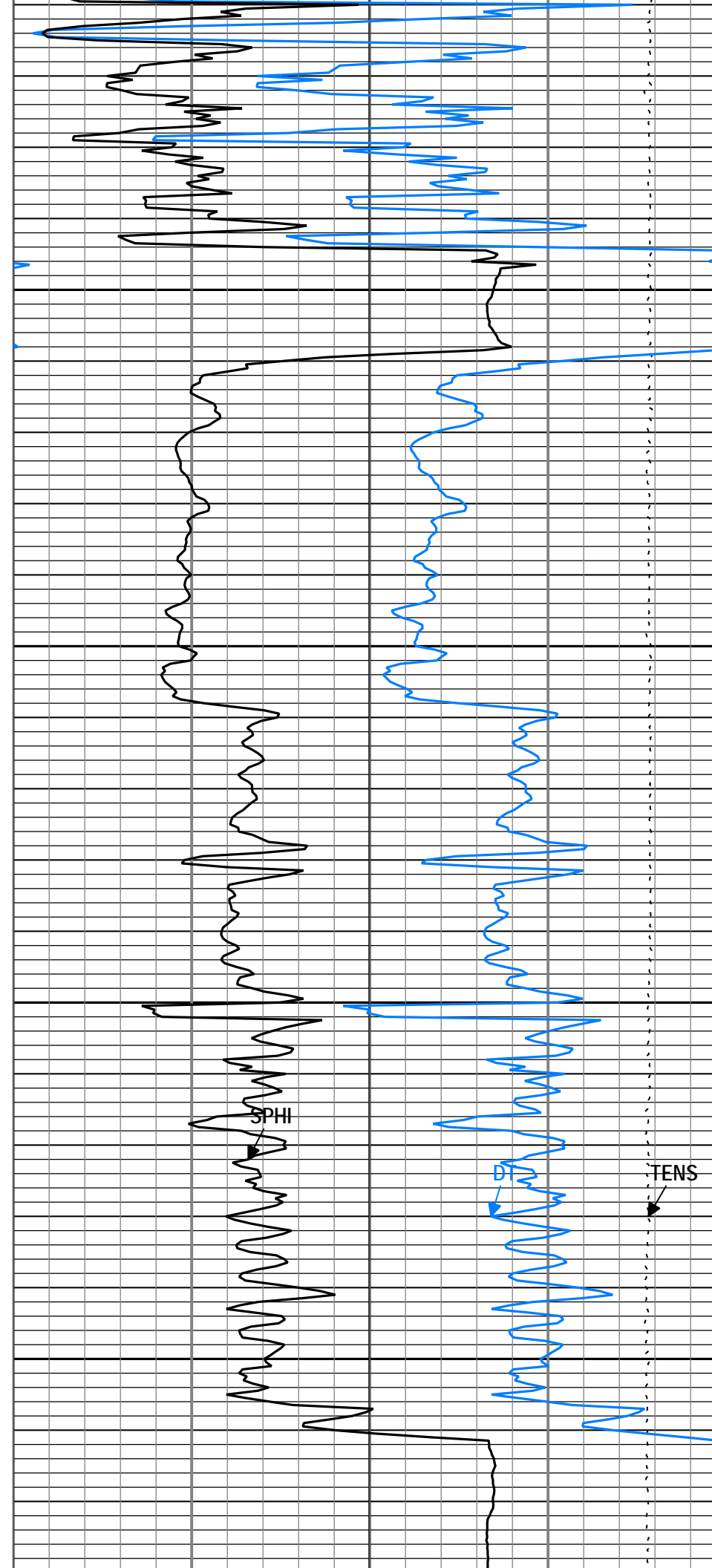
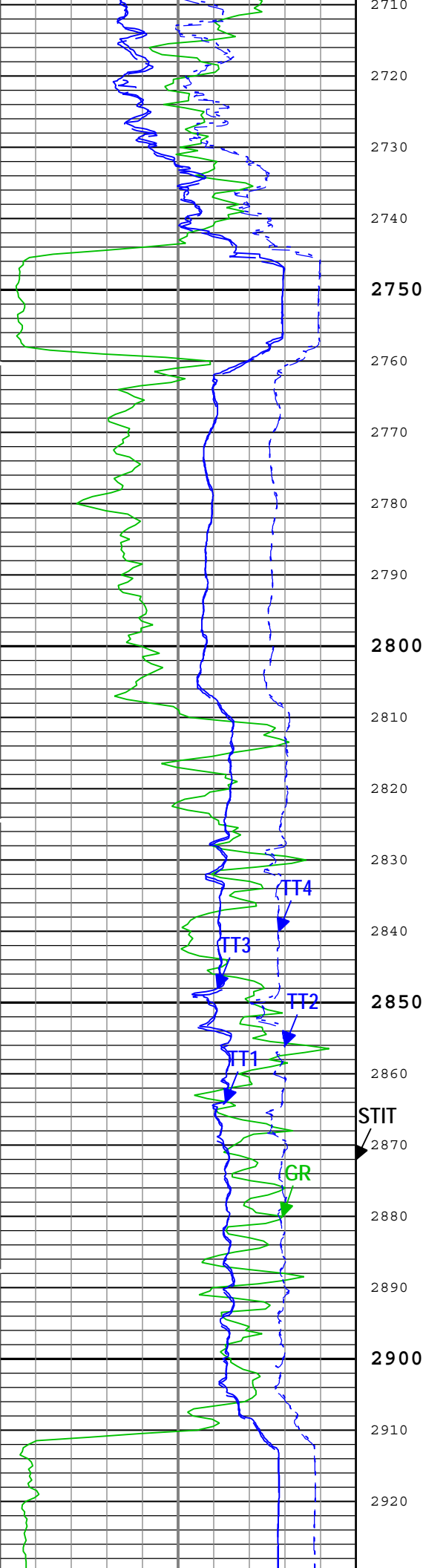


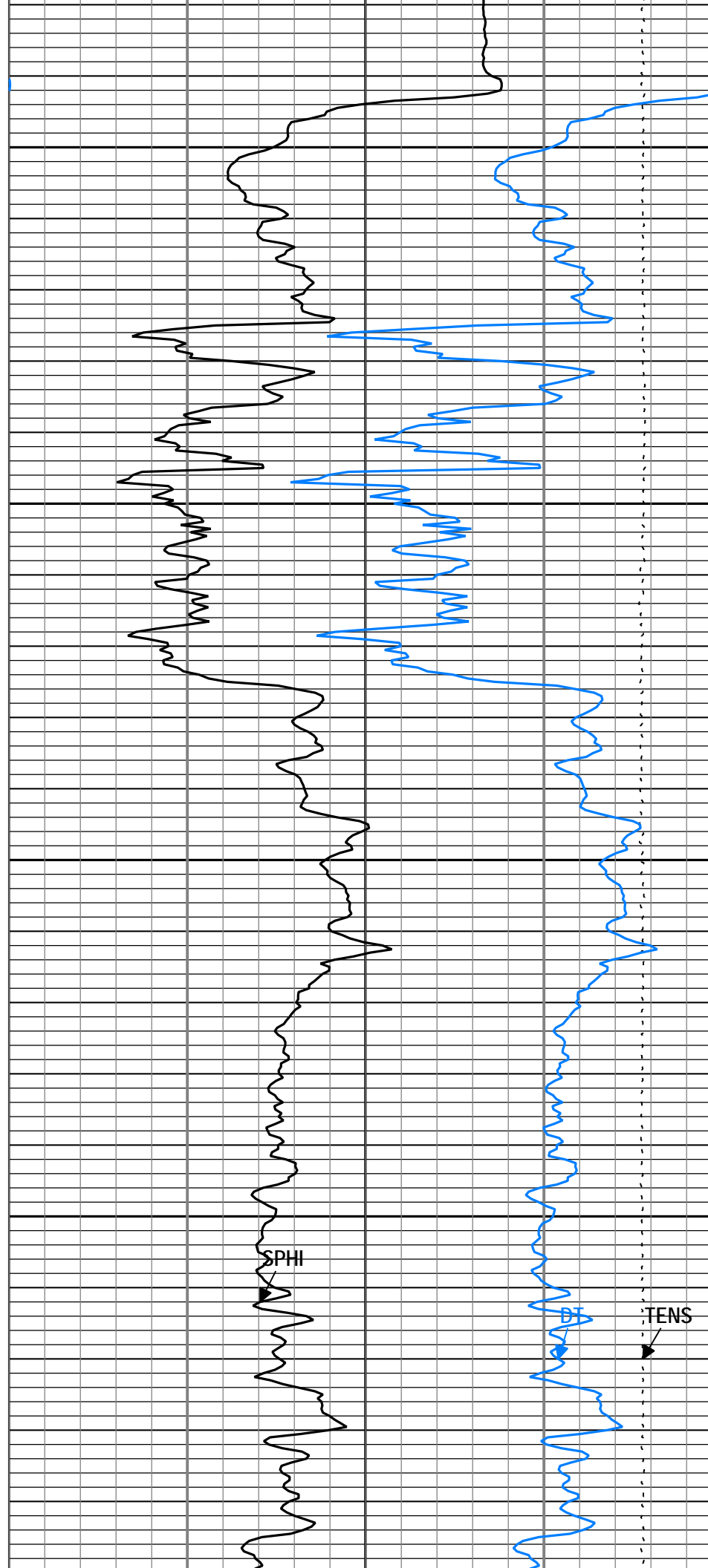
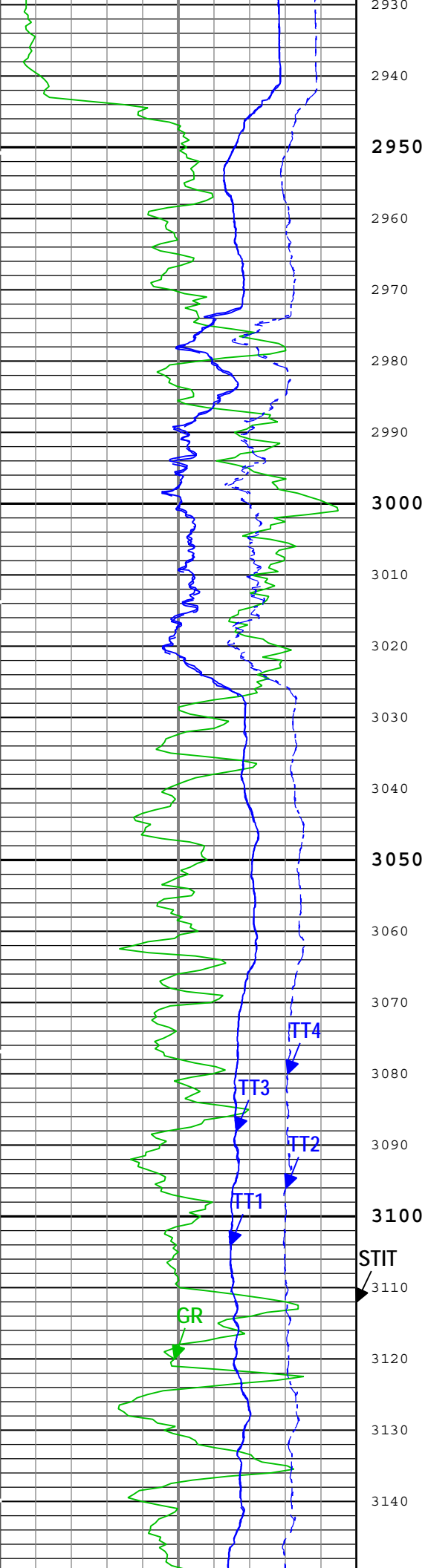


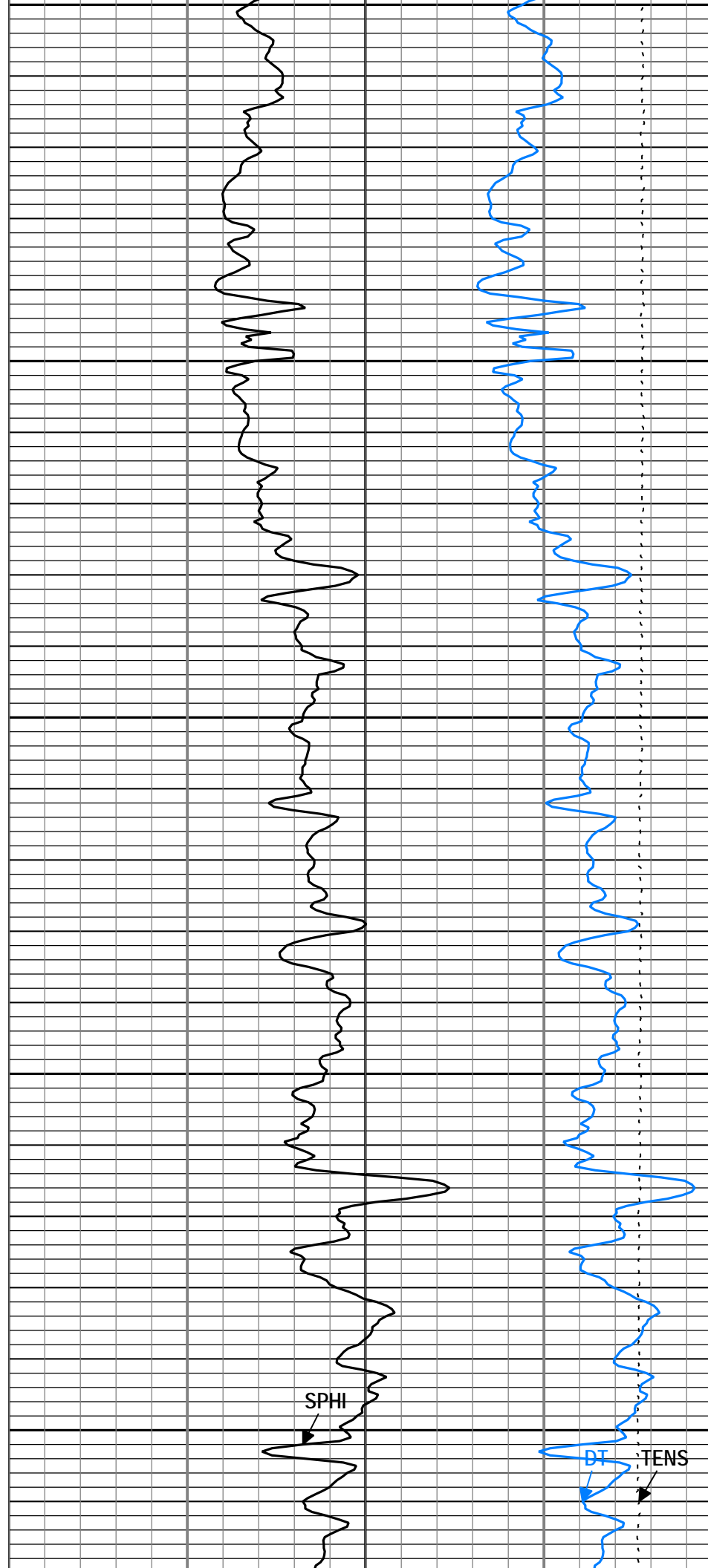
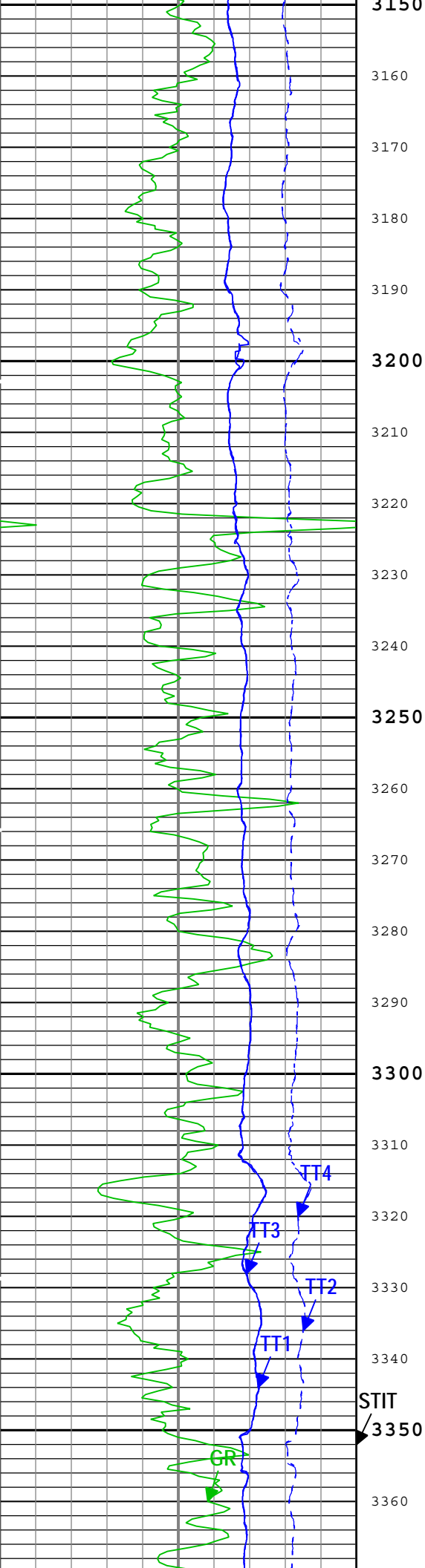


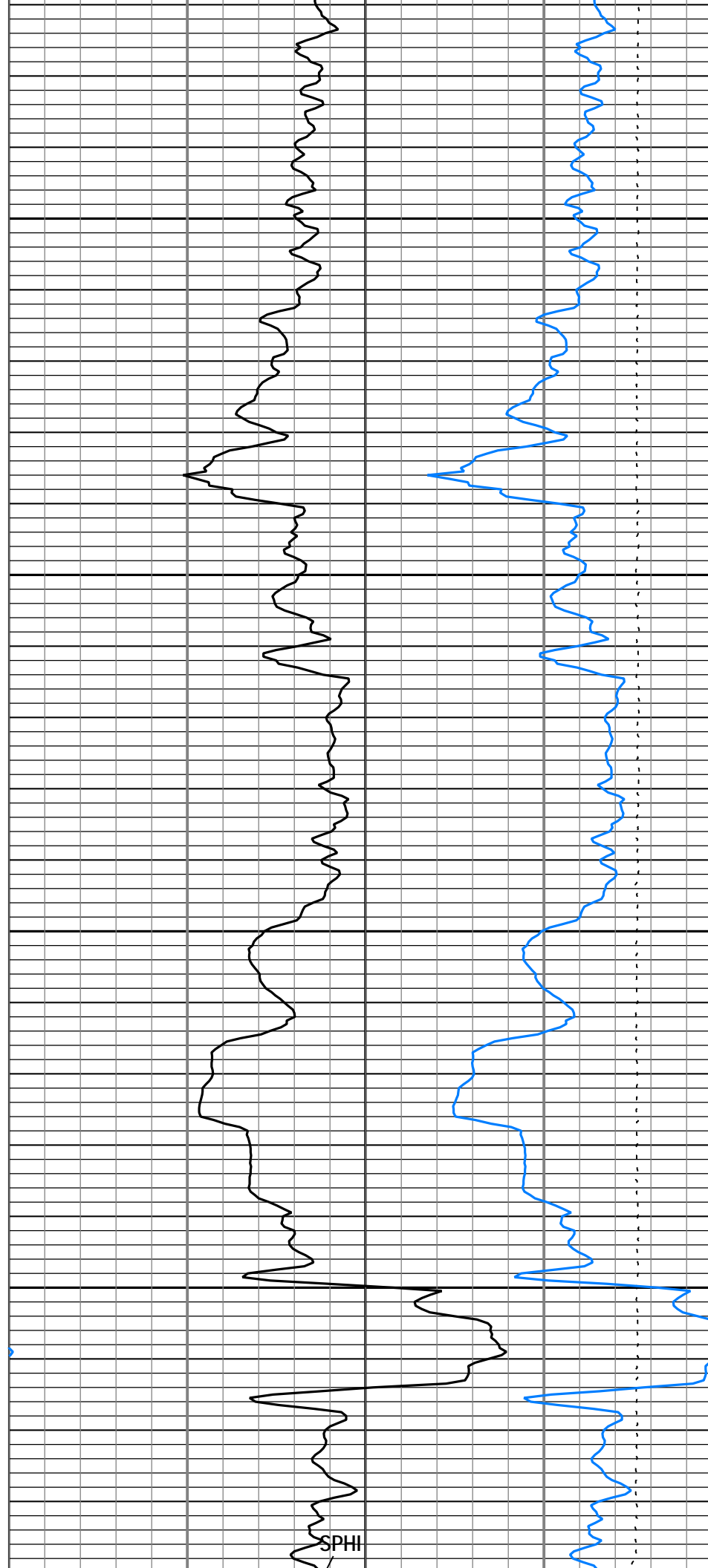
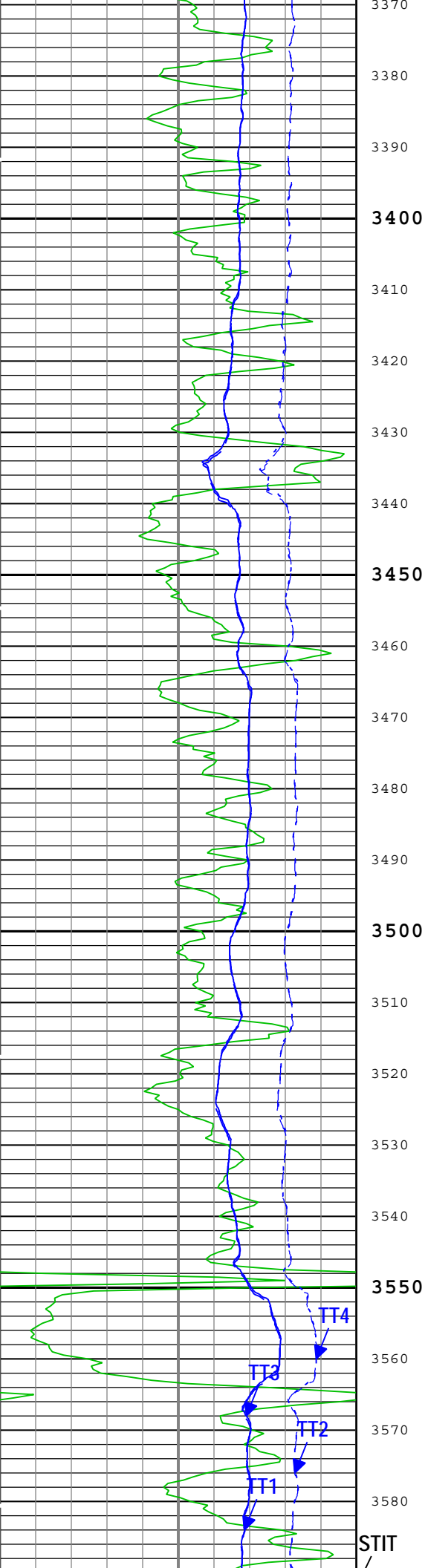


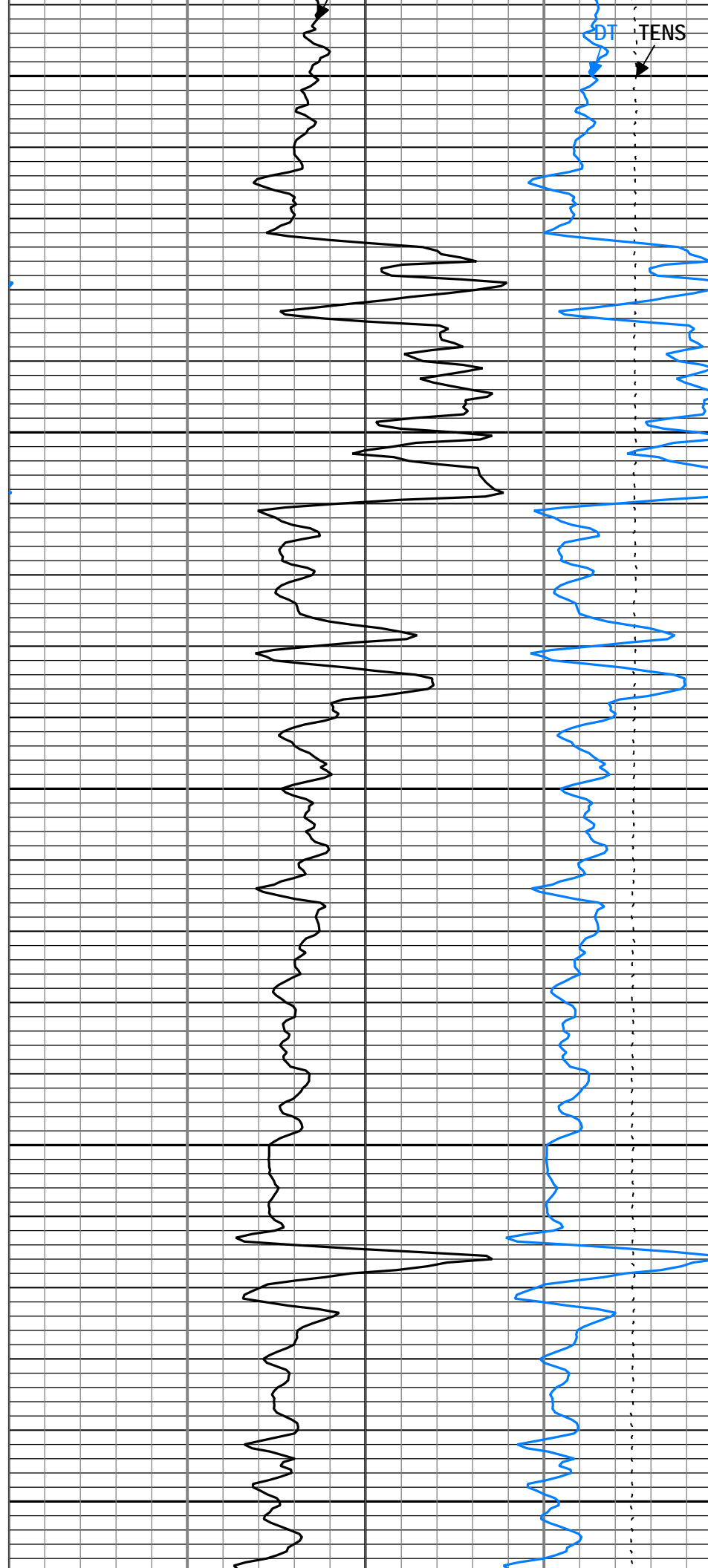
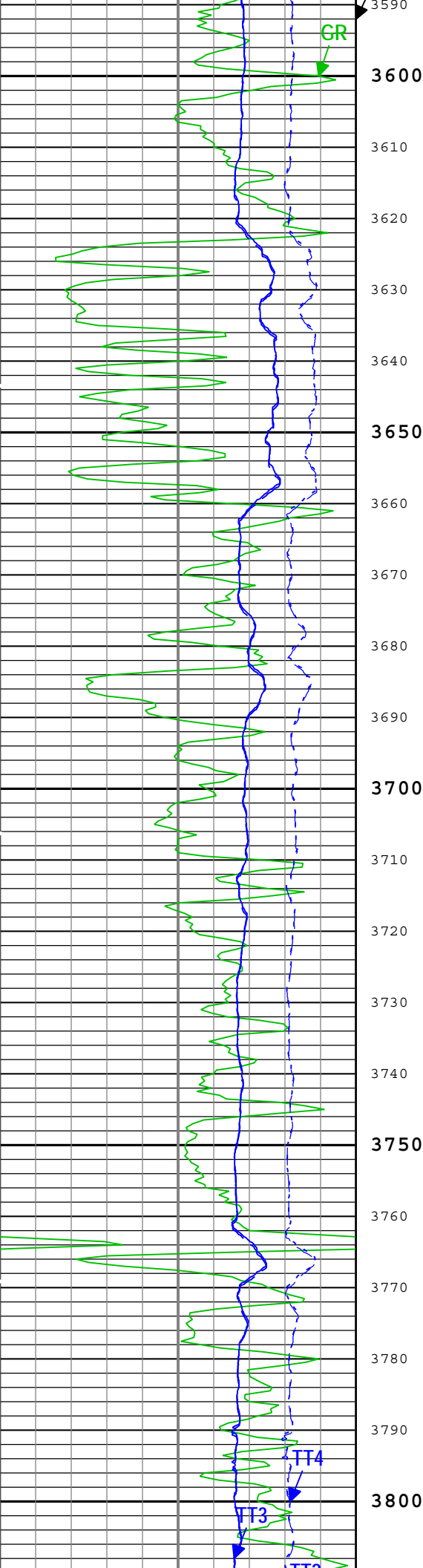


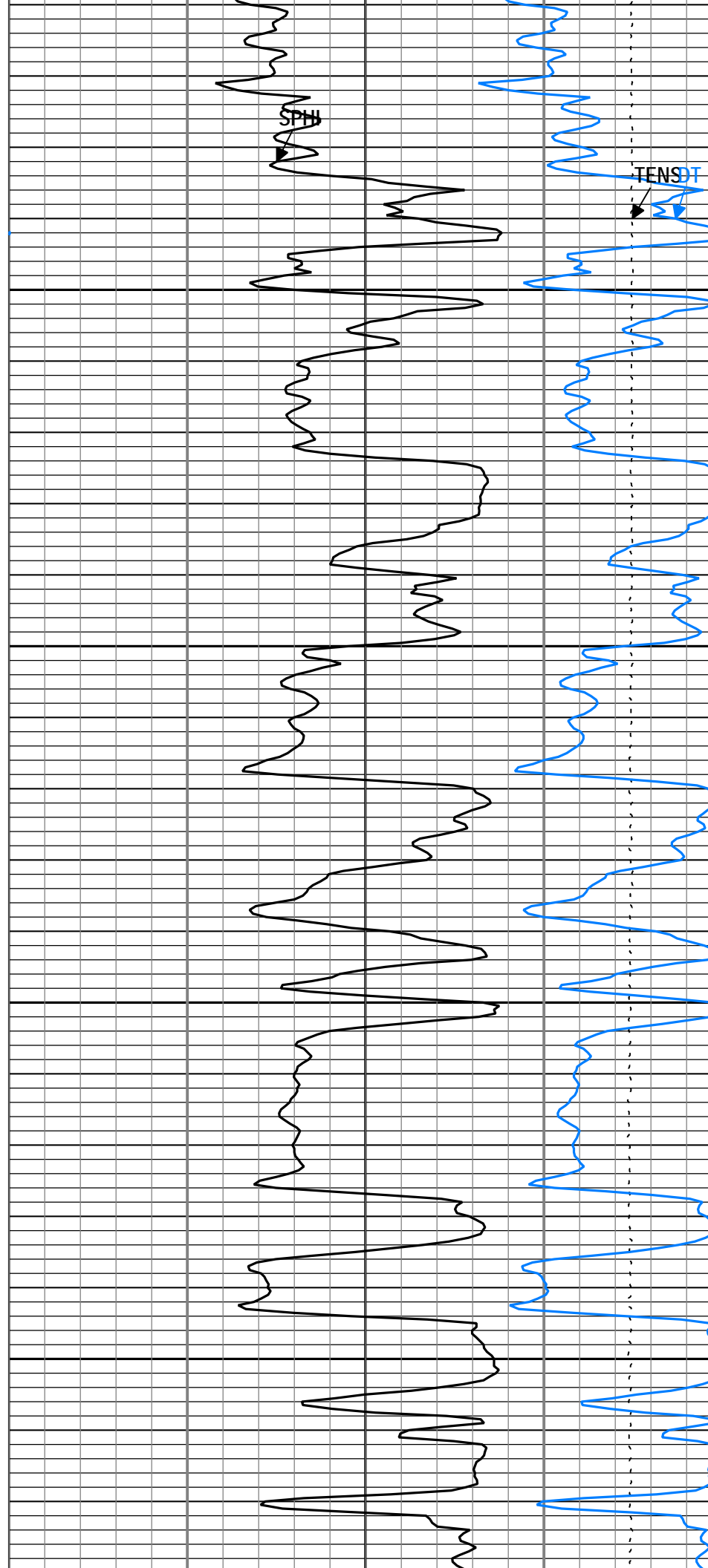
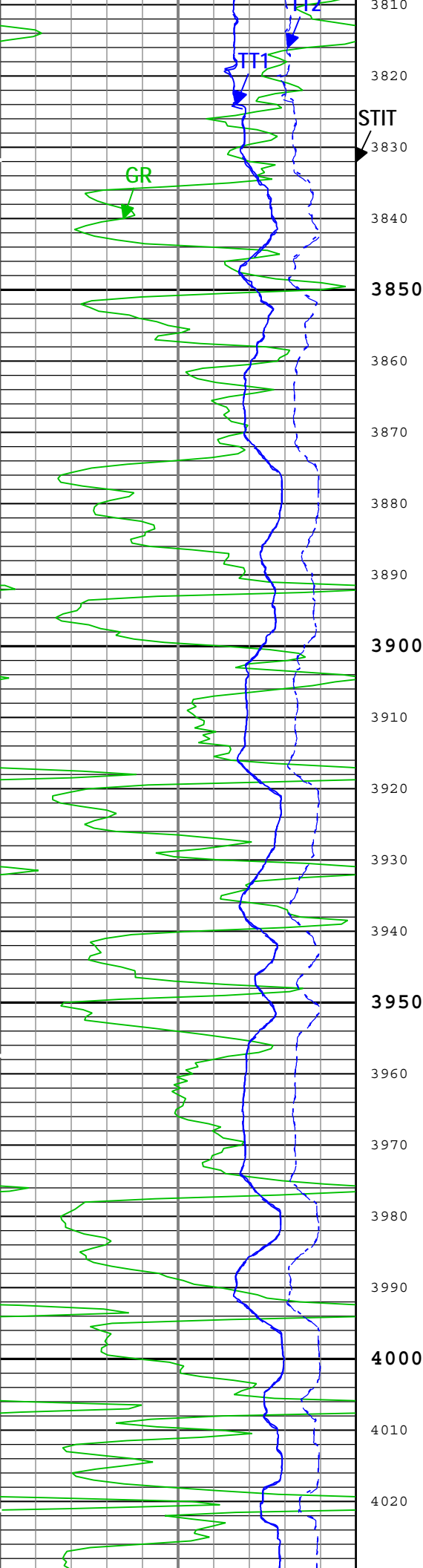


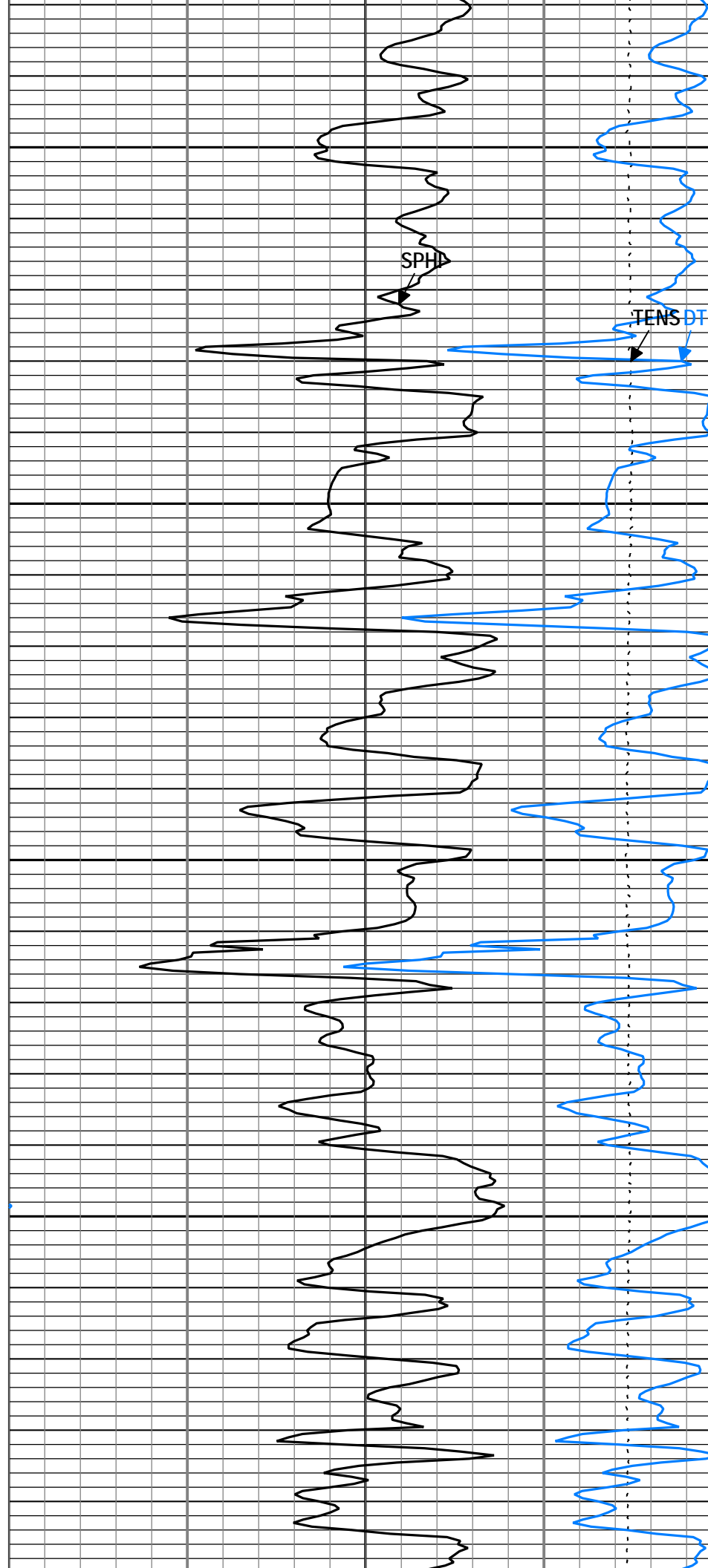
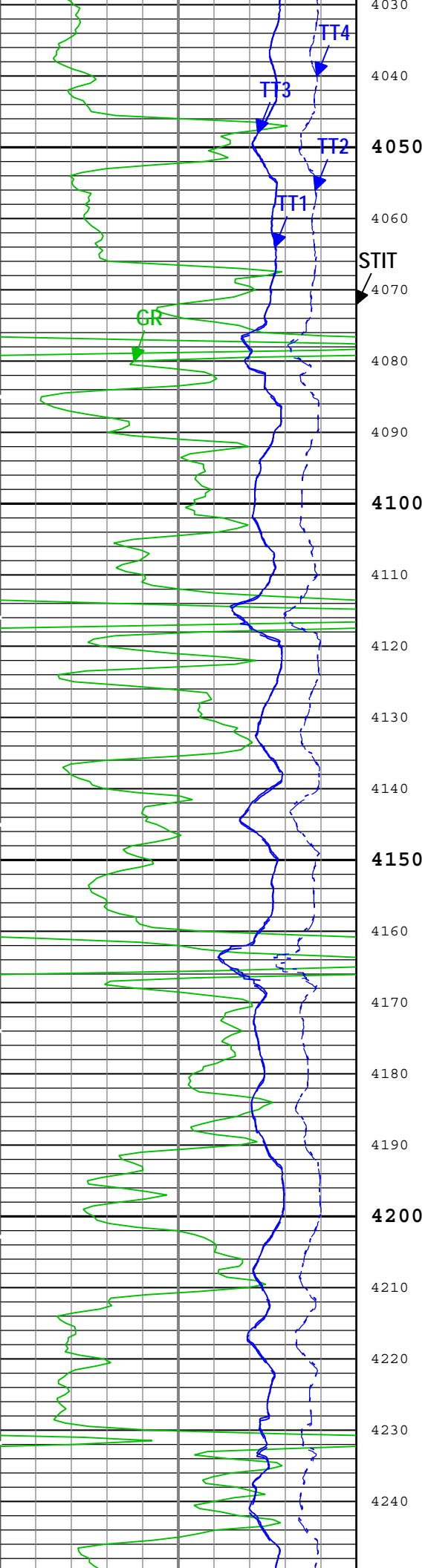


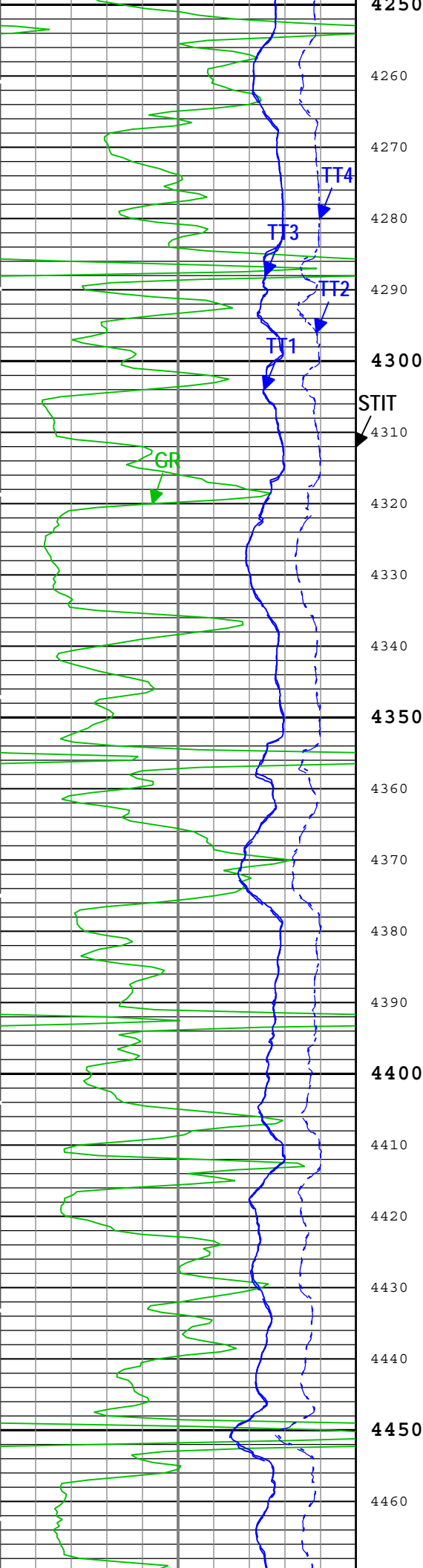




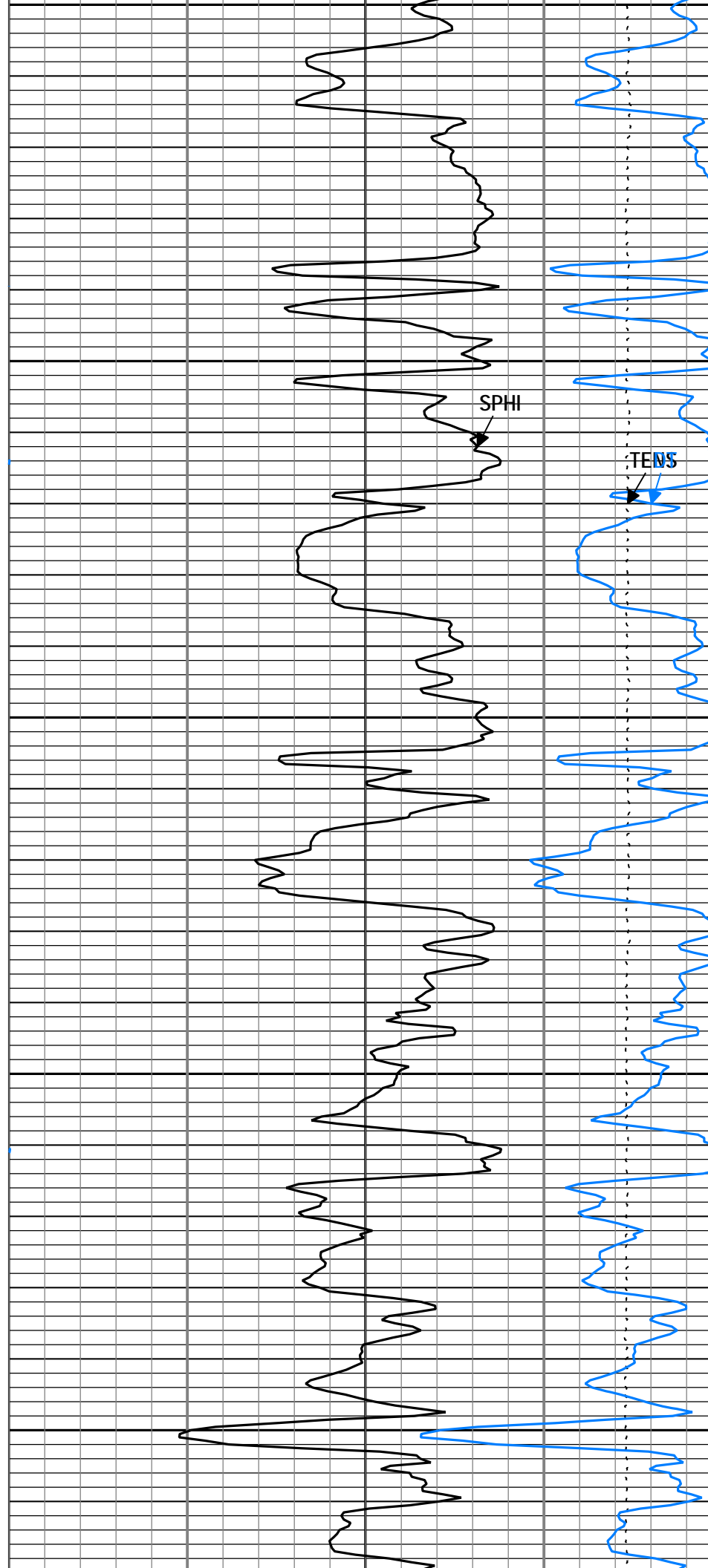






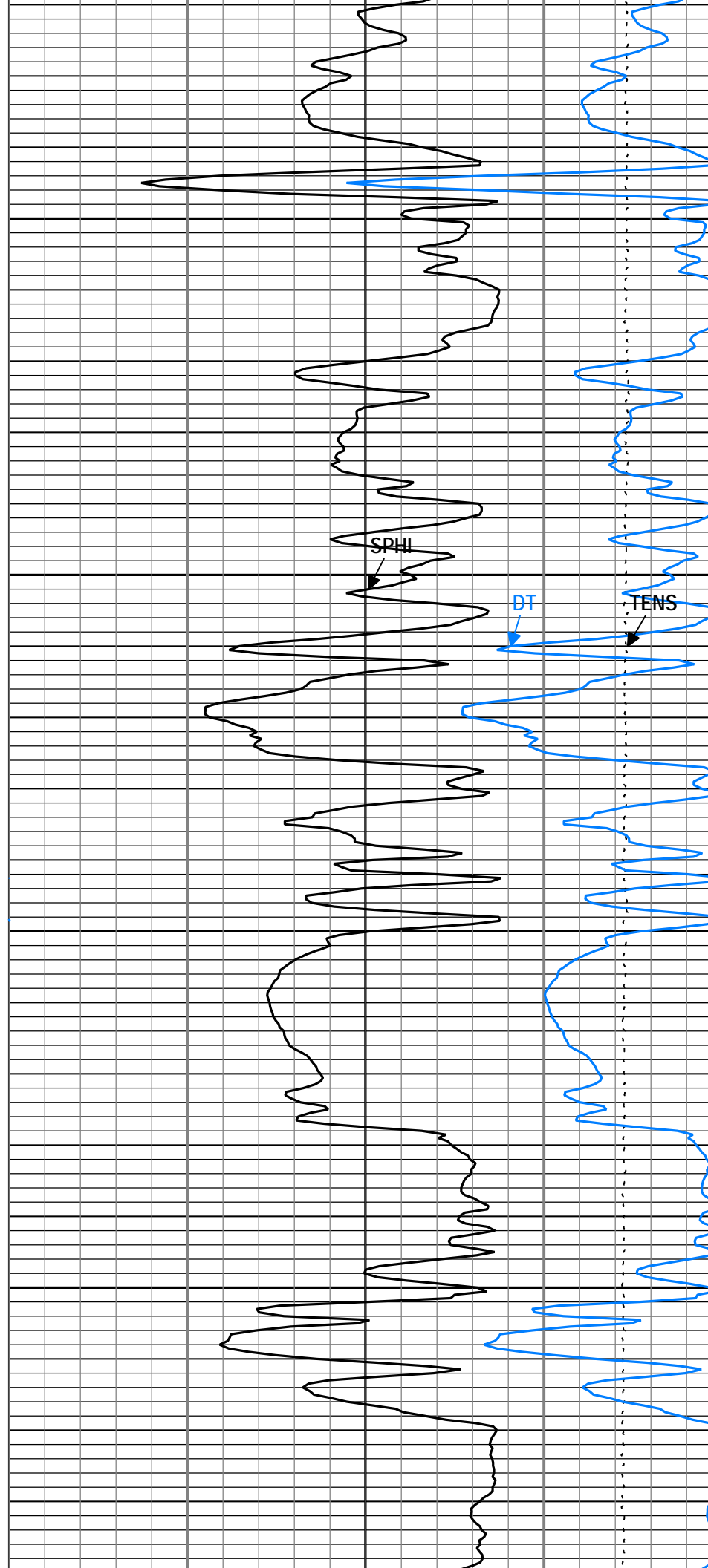
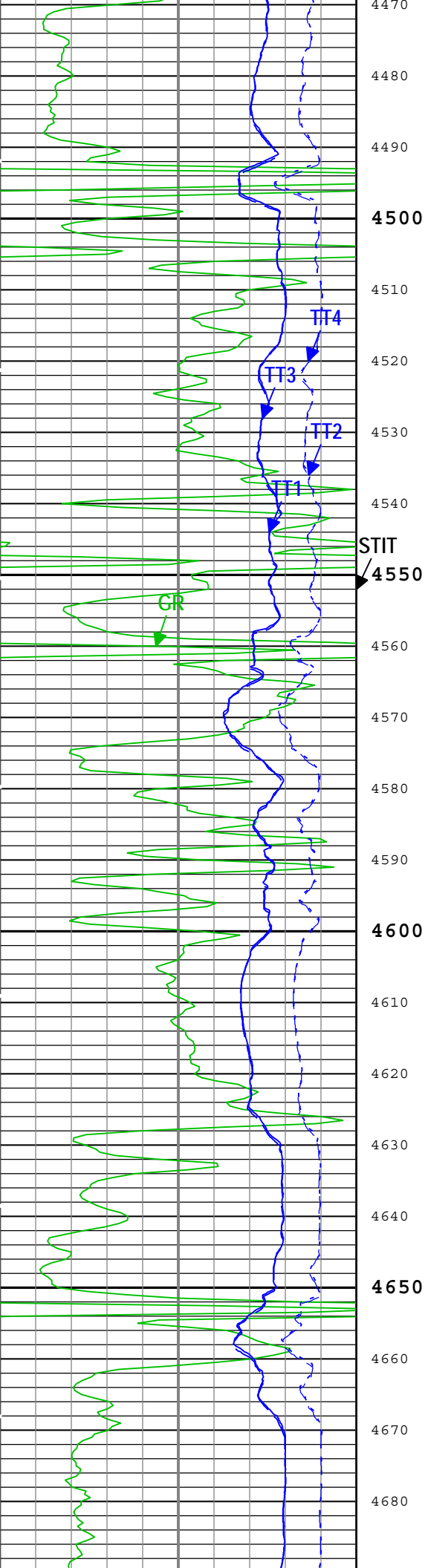


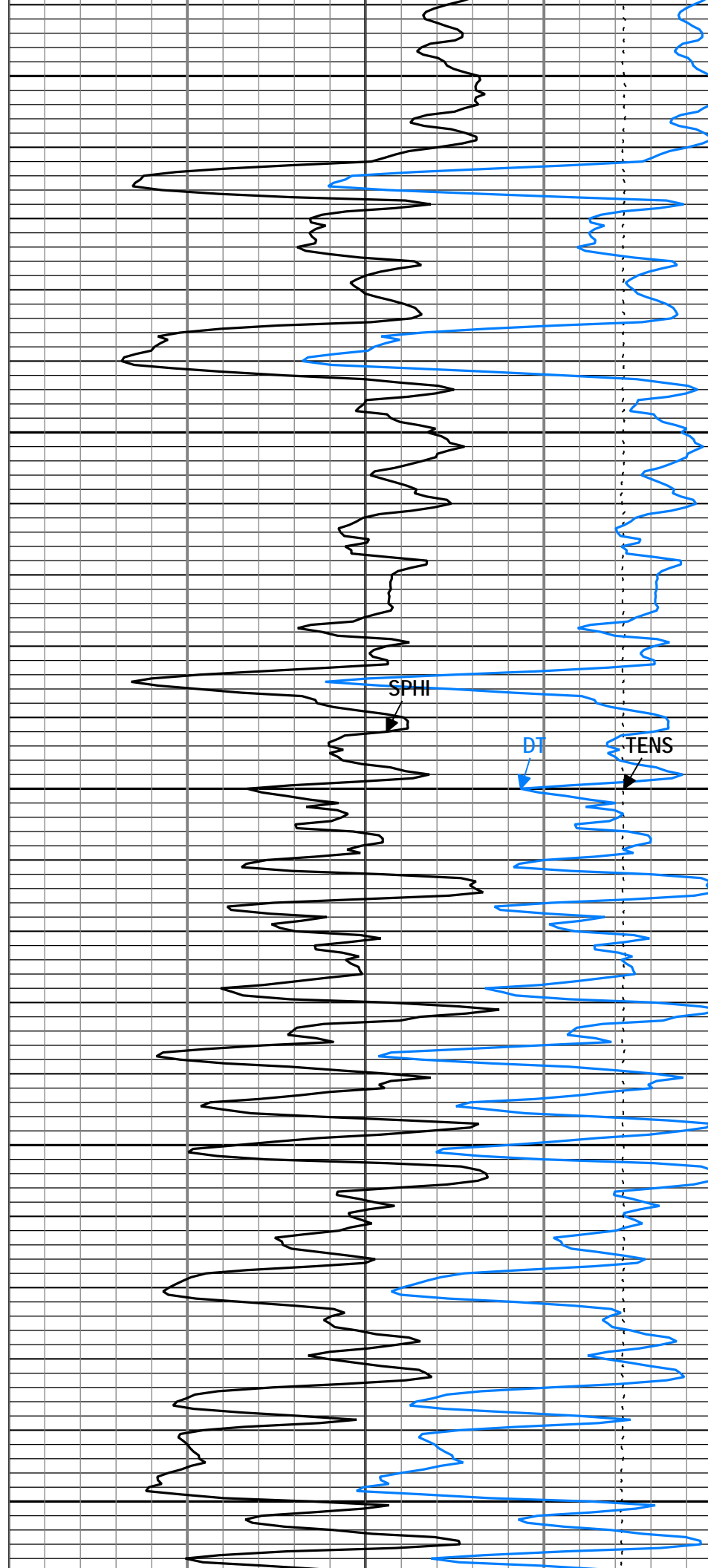
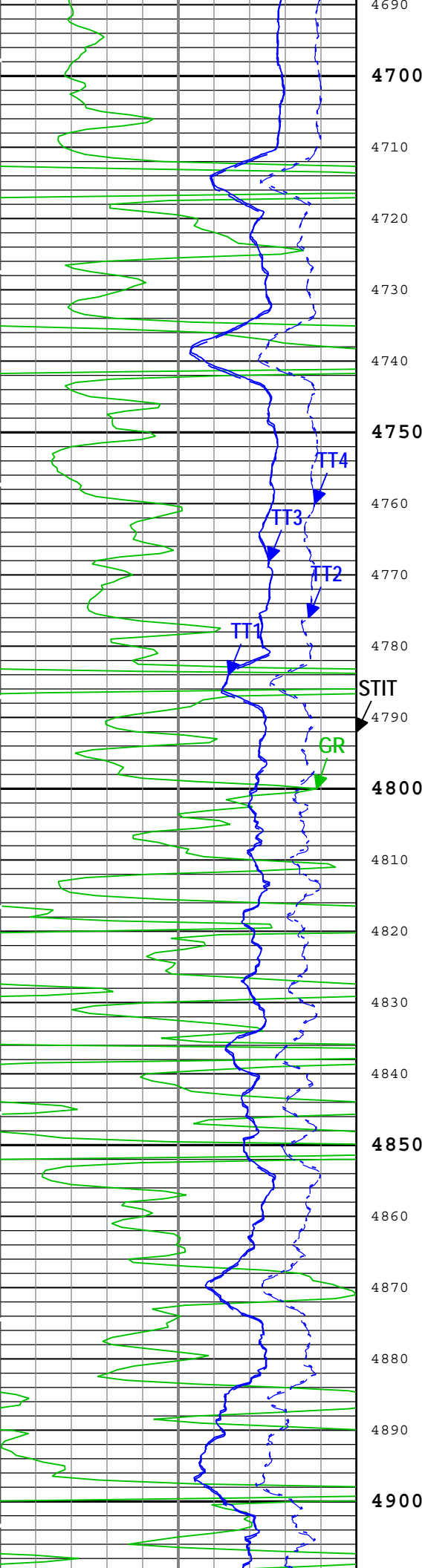
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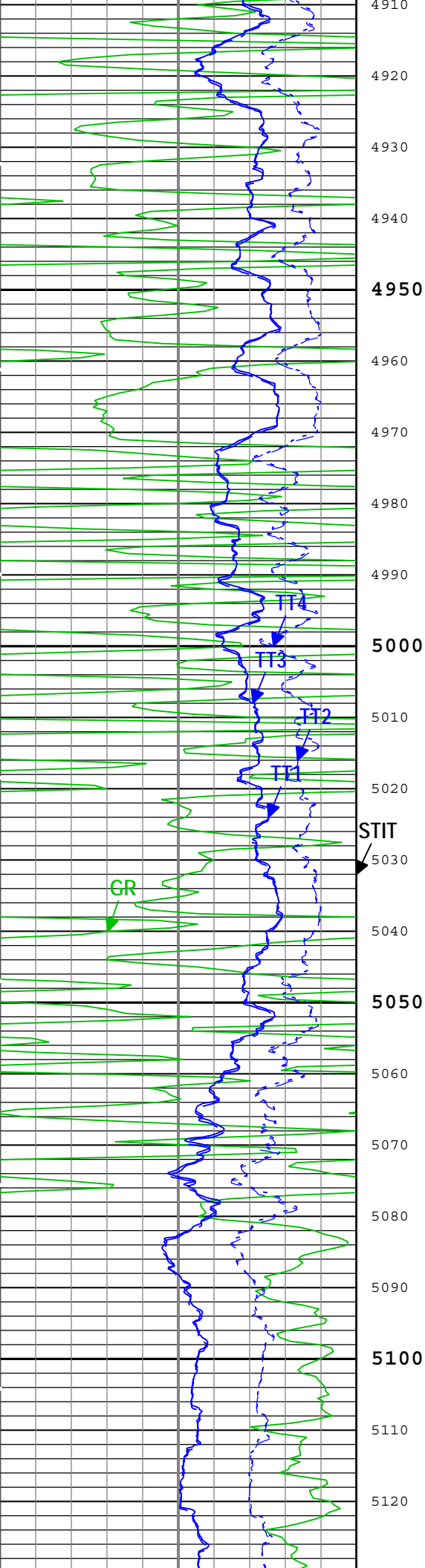


SPHI

TENS







STIT



SPHI

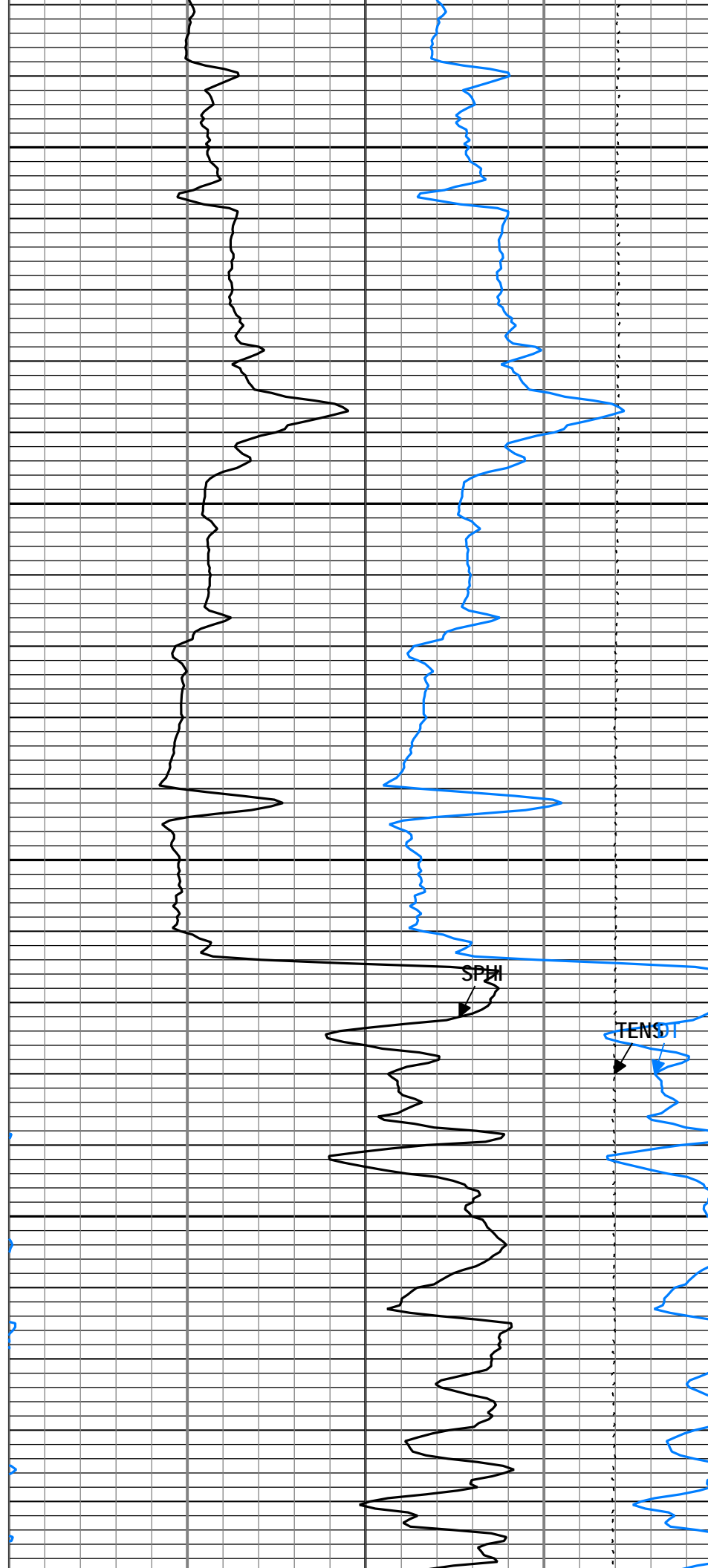
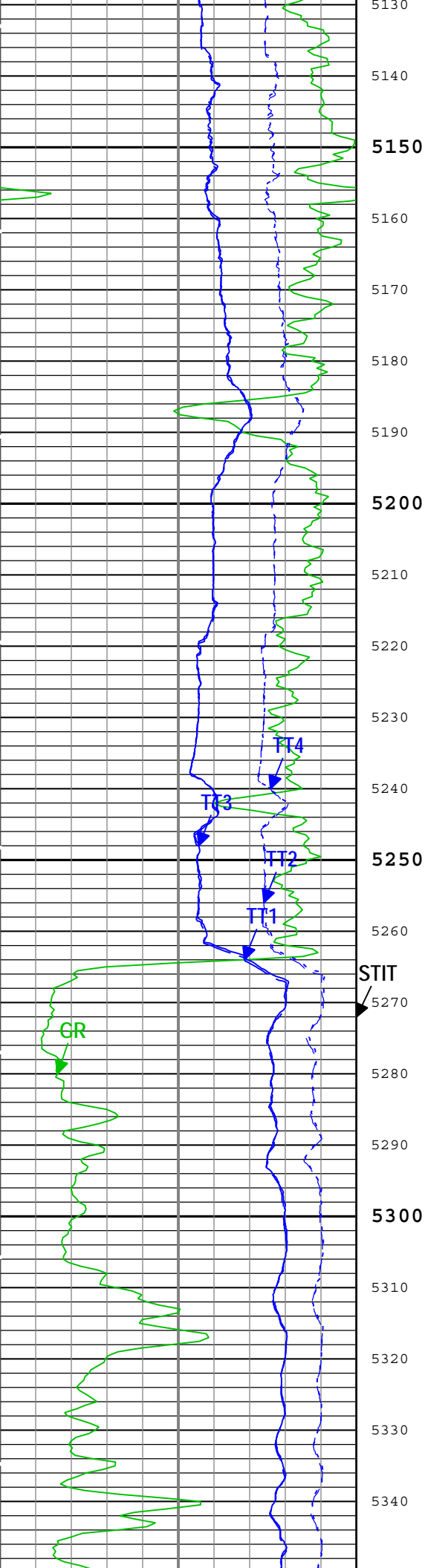


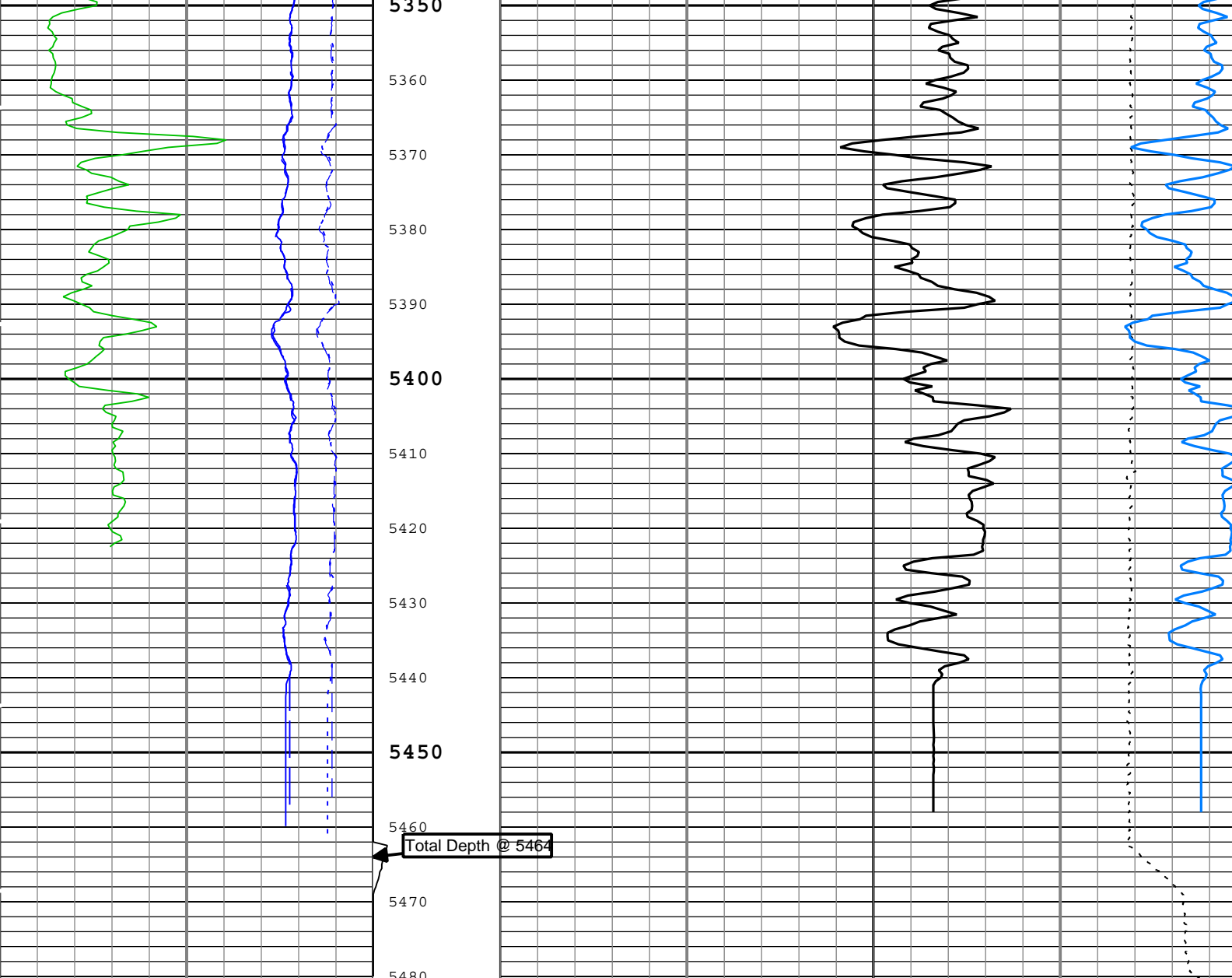
TENS



D







Gamma Ray (GR) HGNS-H			Stuck Tool Indicator, Total (STIT)	Delta-T (also called Slowness or Interval Transit Time) (DT) DSLT-H			
0	gAPI			150	us/ft		5
Transit Time 1 (TT1) DSLT-H				Sonic Porosity (SPHI) DSLT-H			
1200	us			200	ft3/ft3		-0.1
Transit Time 2 (TT2) DSLT-H				Cable Tension (TENS)			
1200	us		200	10000 lbf			
Transit Time 3 (TT3) DSLT-H			Cable Drag				
1200	us			200			
Transit Time 4 (TT4) DSLT-H			Tool_Tot. Drag				
1200	us			200			
Transit Time 5 (TT5) DSLT-H							
1200	us		200				

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: 03-Nov-2012 19:55:43

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	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in

CBLO	Casing Bottom (Logger)	WLSESSION	432	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
CDTS	Correction for Delta-T Shale, Empirical	Borehole	100	us/ft
DETE	Delta-T Detection	DSLTH-H	E2	
DFD	Drilling Fluid Density	Borehole	9.3	lbm/gal
DTCM	Delta-T Computation Mode	DSLTH-H	Full	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTM	Delta-T Matrix	Borehole	47	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-H	120	
MNHTR	Minimum High Threshold Reference for first arrival detection	DSLTH-H	100	
NMSG	Near Minimum Sliding Gate	DSLTH-H	140	us
SGAD	Sliding Gate Status	DSLTH-H	On	
SOCO	Standoff Correction Option	HGNS-H	Yes	
SPFS	Sonic Porosity Formula	Borehole	Raymer-Hunt	
SPSO	Sonic Porosity Source	DSLTH-H	DT	
TD	Total Measured Depth	Borehole	5464	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	0	417	432
BS	7.875	432	5480.25

All depth are actual.

Tool Control Parameters

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

Company:

Vecta Oil & Gas LTD

Schlumberger

Well:

Crestone

Field:

Wildcat

County:

Cheyenne

State:

Colorado

Platform Express

Sonic