

Company: LARAMIE ENERGY LLC

Well: CC 0697 03 17

Field: Grand Valley

County: Garfield State: Colorado

County: Garfield
Field: Grand Valley
Location: Lot 11 3-6S-97W
Well: CC 0697 03 17
Company: LARAMIE ENERGY LLC

HID									
Lot 11 3-6S-97W					Elev.:		K.B. 8468.00 ft		
					G.L.		8438.00 ft		
					D.F.				
Location:					Permanent Datum:		Ground Level		Elev.:
					Log Measured From:		Kelly Bushing		30.00 ft
					Drilling Measured From:		Kelly Bushing		above Perm.Datum
API Serial No.		Section:		Township:		Range:			
05-045-23815		3		6S		97W			
					02-Aug-2018				
					TB-TCOM				
					10382.00 ft				
					10382.00 ft				
					10300.00 ft				
					4500.00 ft				
Depth					9.625 in		@		2530.00 ft
					2530 ft				
					8.75 in				
					Water				
Viscosity					9.6 lbm/gal		61 s		
PH							9.5		
e					Flowline				
					1.35 ohm.m		@		68 degF
					0.15 ohm.m		@		68 degF
					1.92 ohm.m		@		68 degF
RMC					Calculated		Calculated		
RMF @ BHT					0.46 @ 212		0.05 @ 212		
Temperatures					200 degF				
Time					01-Aug-2018		20:00:00		
Time					01-Aug-2018		22:35:00		
Location:					OSL C-EA 2377		Ft Morgan		
					L. Awalt				
					Matt Kohl				

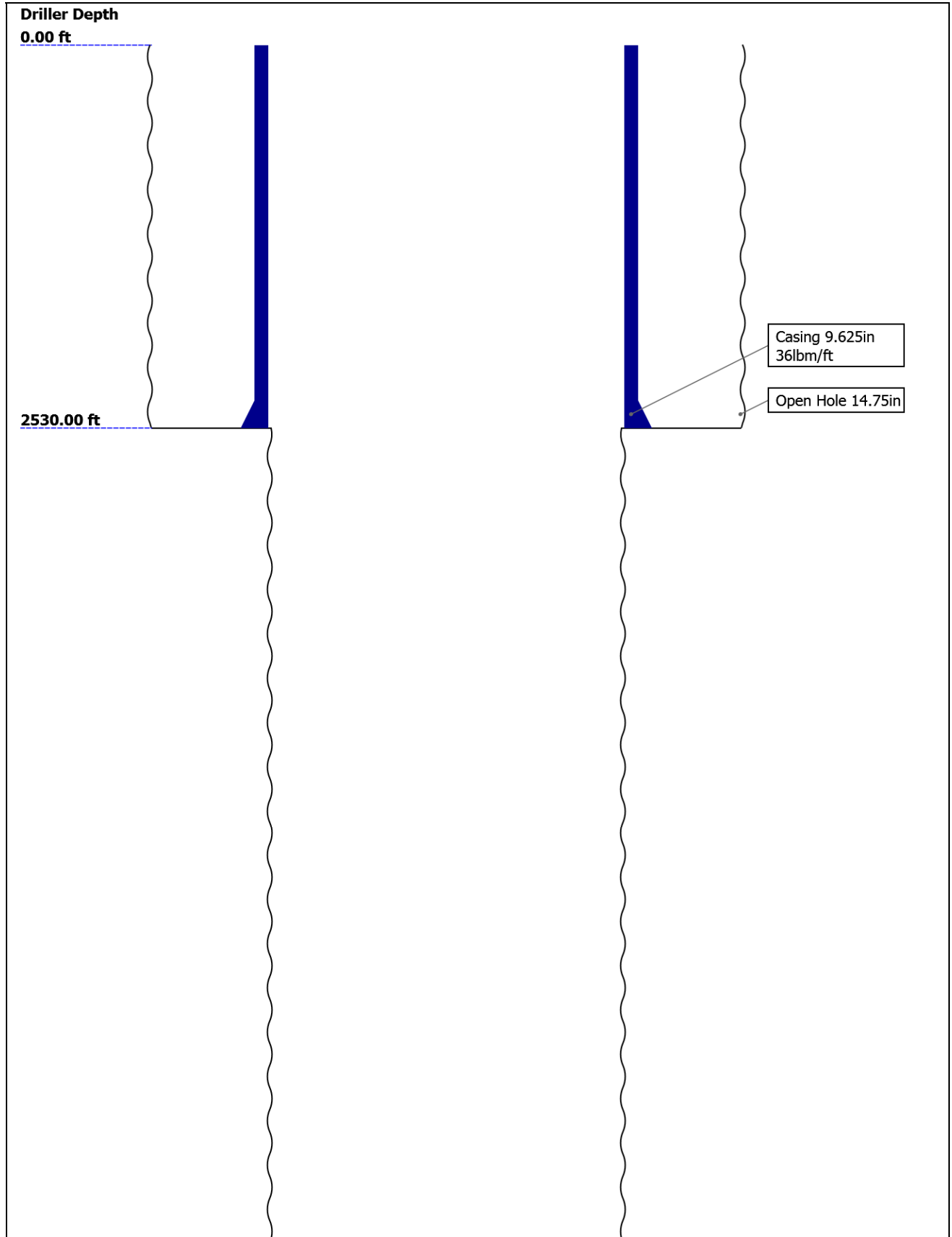
Disclaimer

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Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	14.75	8.75				
Top Driller (ft)	0	2530				
Top Logger (ft)	0	2530				
Bottom Driller (ft)	2530	10382				
Bottom Logger (ft)	2530	10382				
Casing						
Size (in)	9.625					
Weight (lbm/ft)	36					
Inner Diameter (in)	8.921					
Grade	N/A					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	2530					
Bottom Logger (ft)	2530					

Remarks and Equipment Summary

TB-TCOM: Toolstring				TB-TCOM: Remarks	
Equip name	Length	MP name	Offset	Thank you for choosing Schlumberger!	
PEH-EFA	71.72			Log run for formation evaluation	
				Log run on LS matrix, 2.71g/cc	
AH-317-TB	69.36			TB Level 3	
TBCCL-A:3	68.29			Depth Correlated to MWD GR	
TBCCL-A:33				Crew: Doug Robinson	
TBDOT-A	66.58	CCL PS58	66.58		
TBHO-AA	62.9				
AH-10	57.91				

SAH-TB 57.16

3

TBSB-BA[2]:PS54
TBSB-BA:PS
54

TBSB-BA[1]:PS38
TBSB-BA:PS
38

TMG-A:69 42.57
TMG-A:69

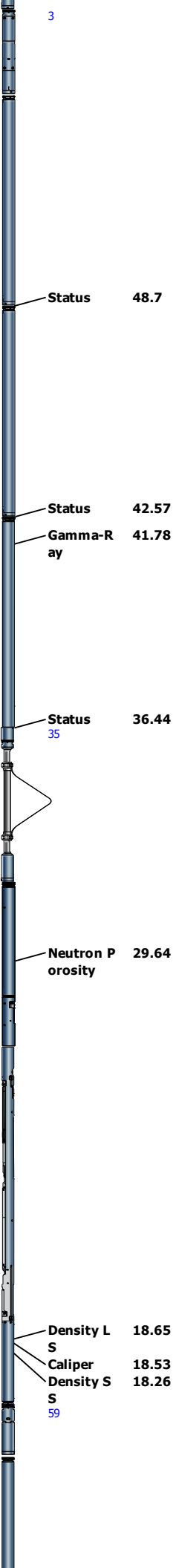
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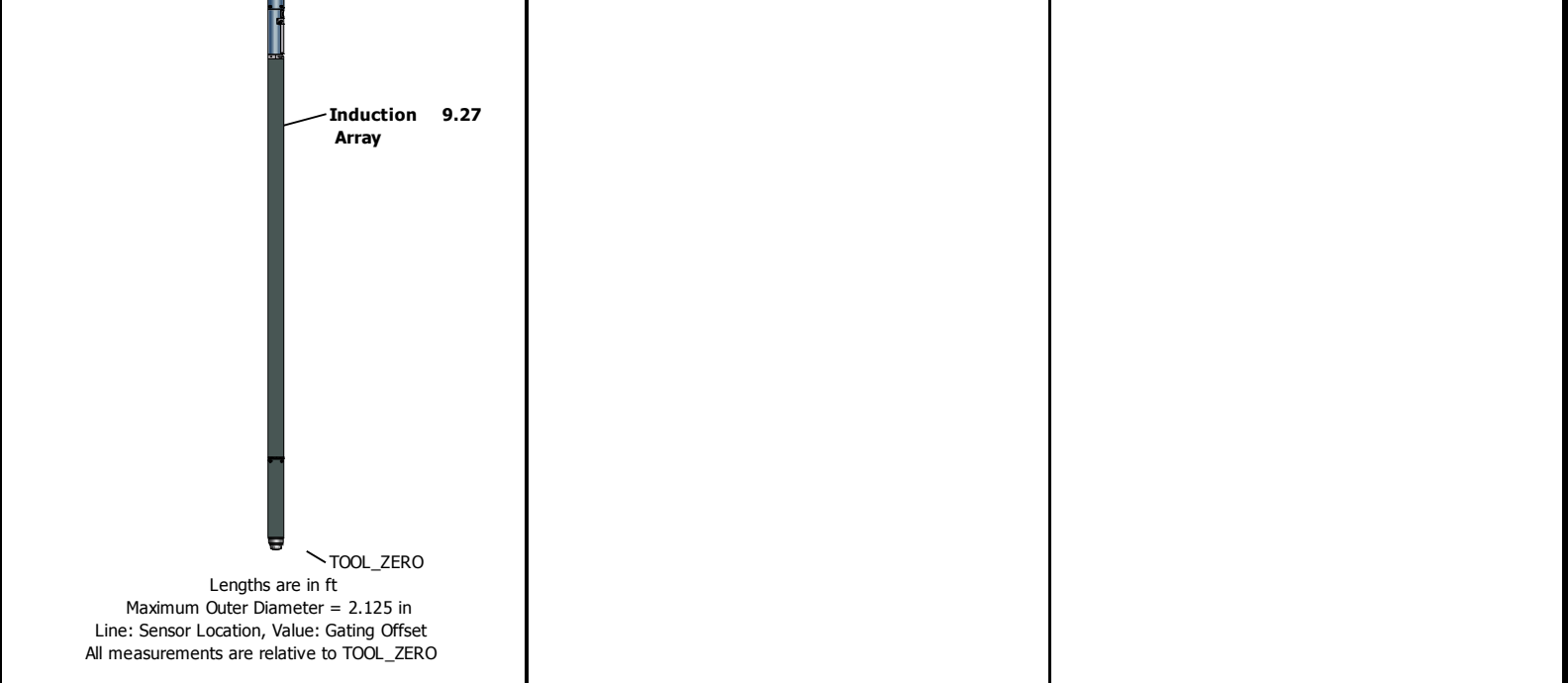
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TBN-B:44
NNLS-EWA:
5975

TBD-B:28 27.18
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GGLS-FZ:339
8

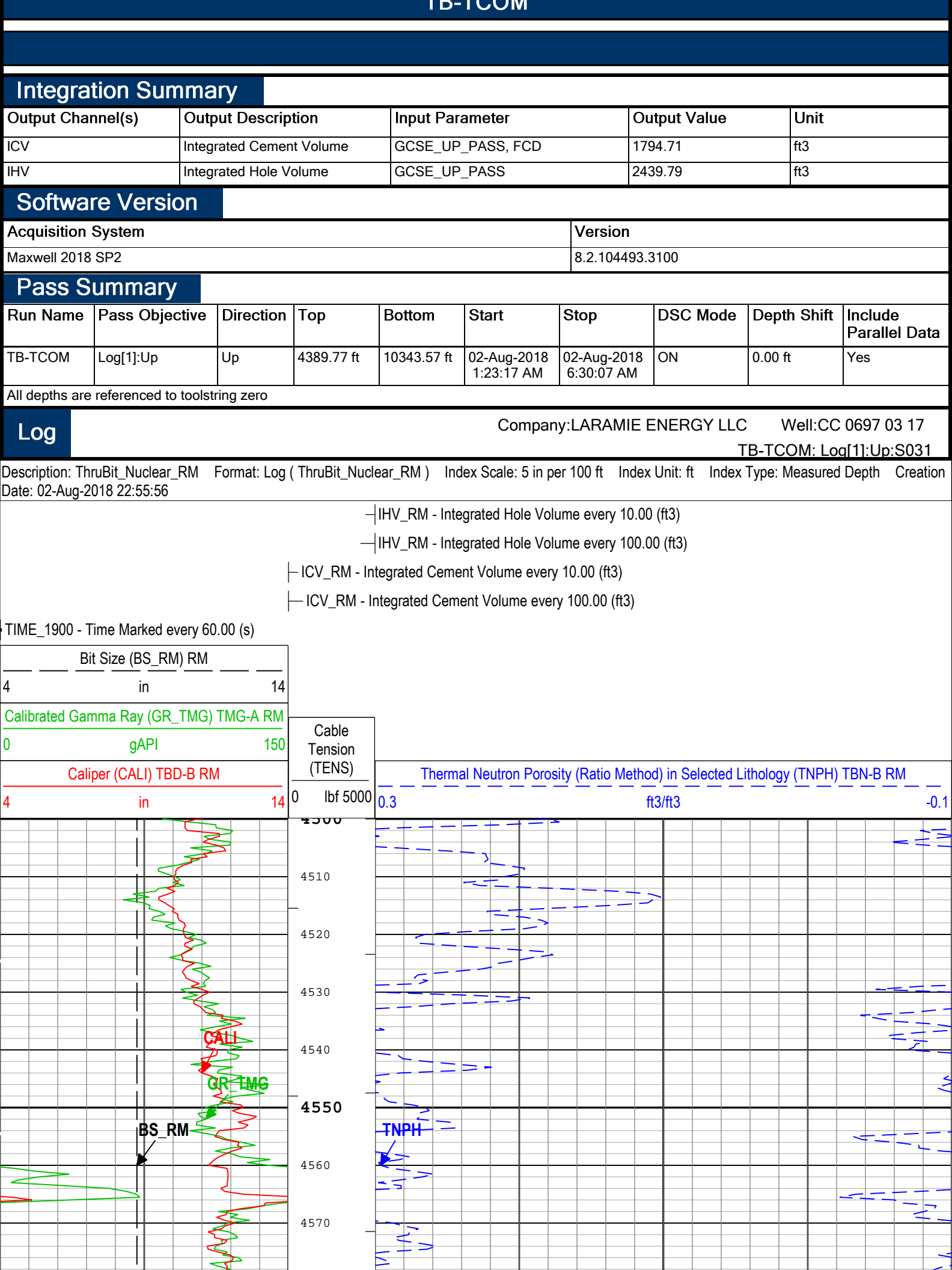
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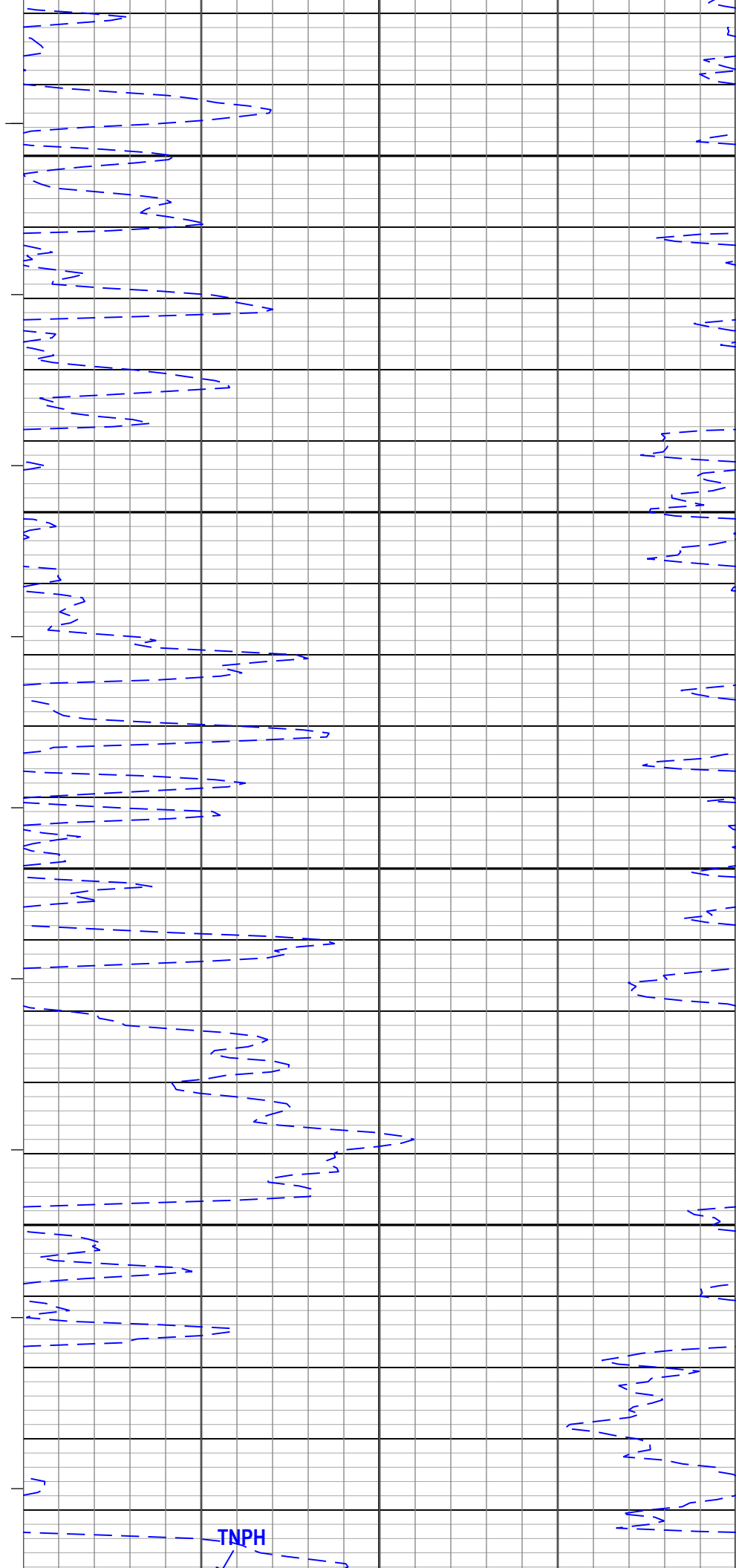
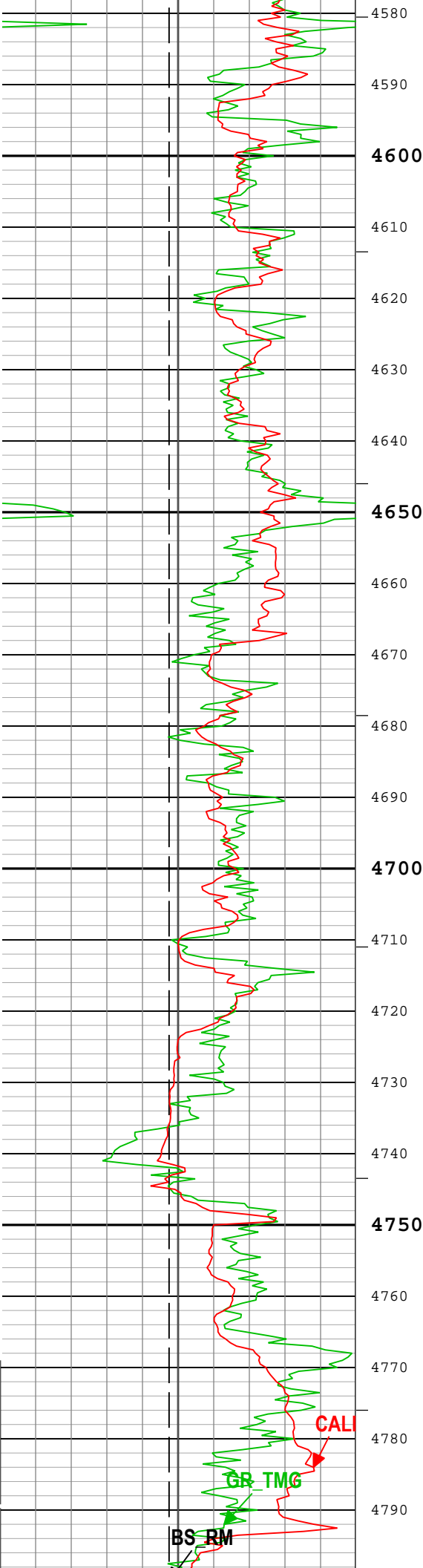
TBIT-A:25 15.28
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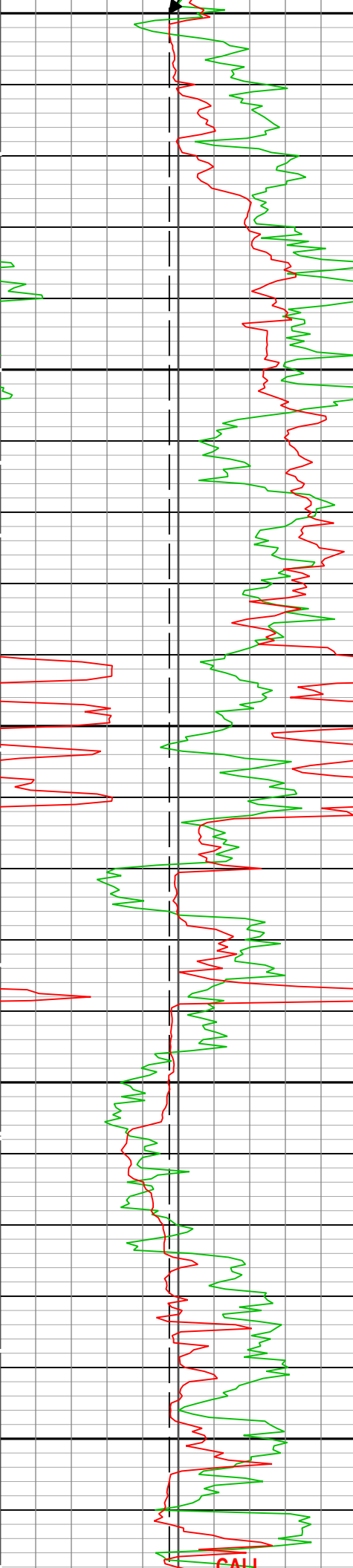




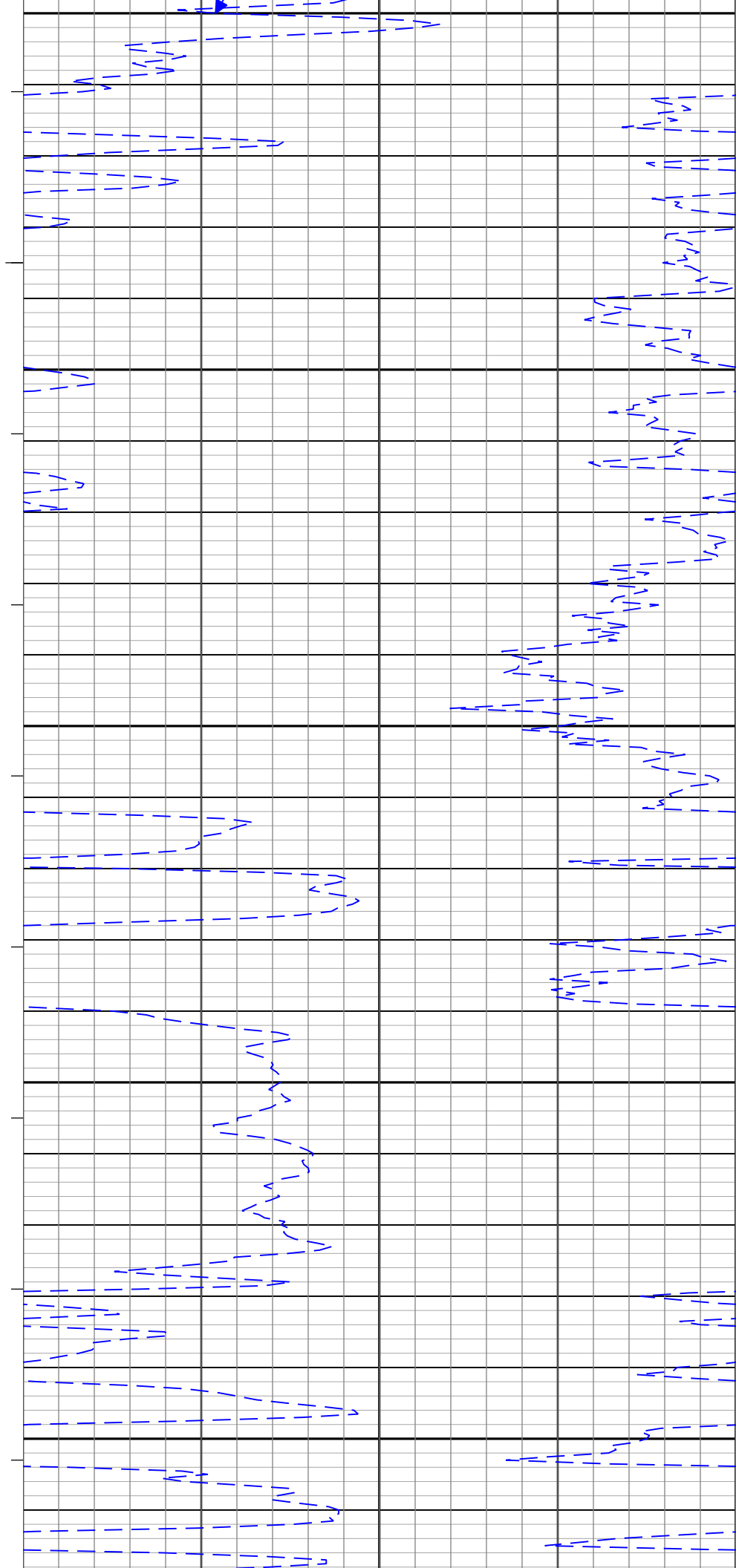
Depth Summary			
		TB-TCOM	
Depth Measuring Device			
Type	IDW-B		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0		
Wheel Correction 2	0		
Tension Device			
Type	CMTD-B/A		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Number of Calibration Points	0		
Logging Cable			
Type	7-46NT-XS		
Serial Number			
Length	24000.00 ft		
Conveyance Type	Wireline		
Rig Type	H&P		
TB-TCOM:Depth Control Parameters		Depth Control Remarks	
Log Sequence	First Log In the Well		
Rig Up Length At Surface			
Rig Up Length At Bottom			
Rig Up Length Correction			
Stretch Correction			
Tool Zero Check At Surface			



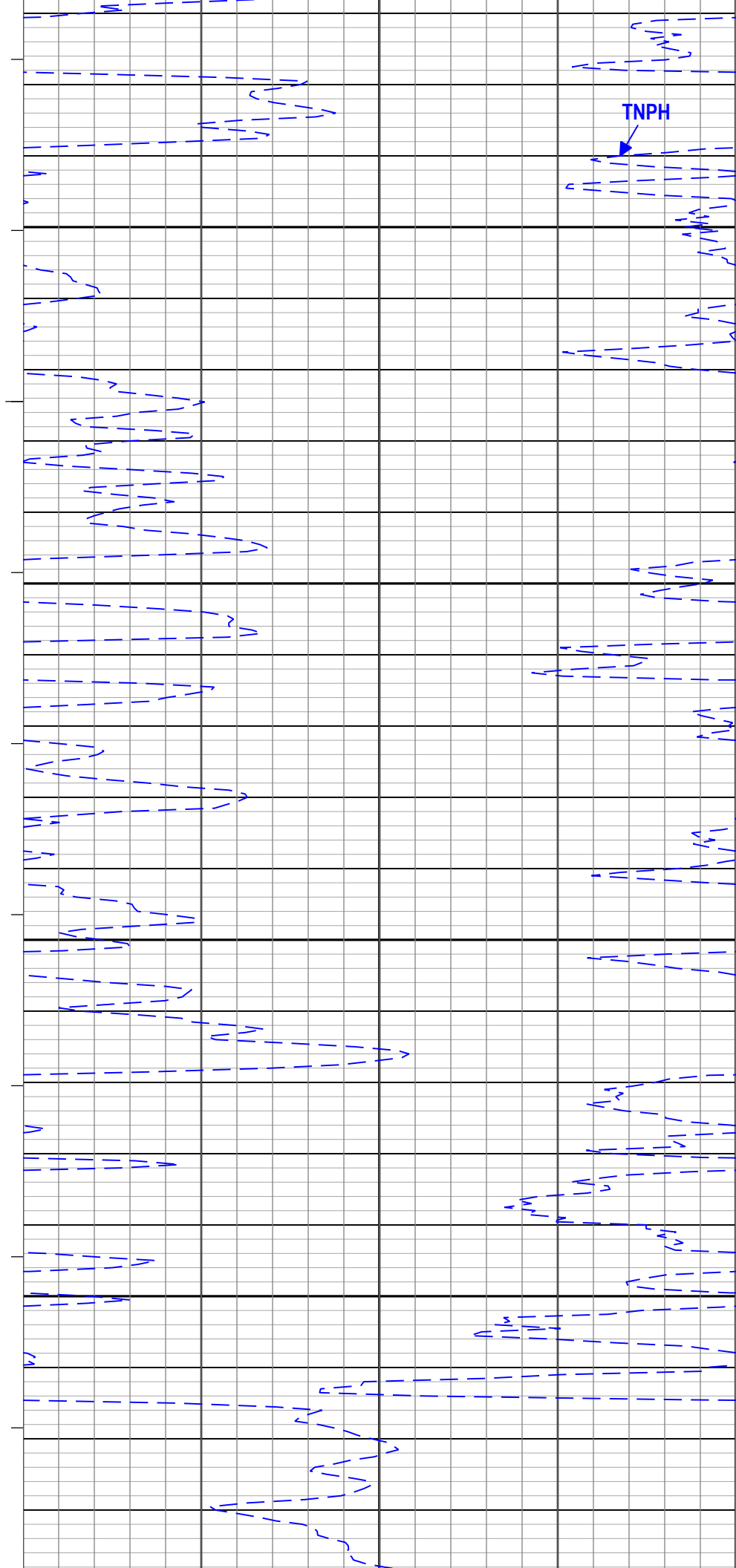
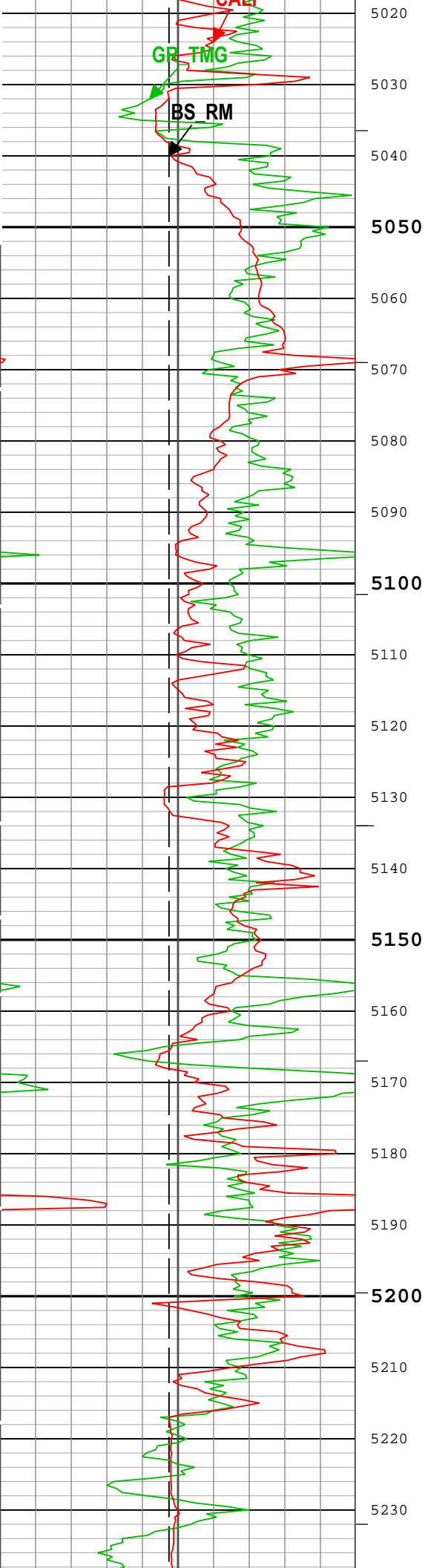


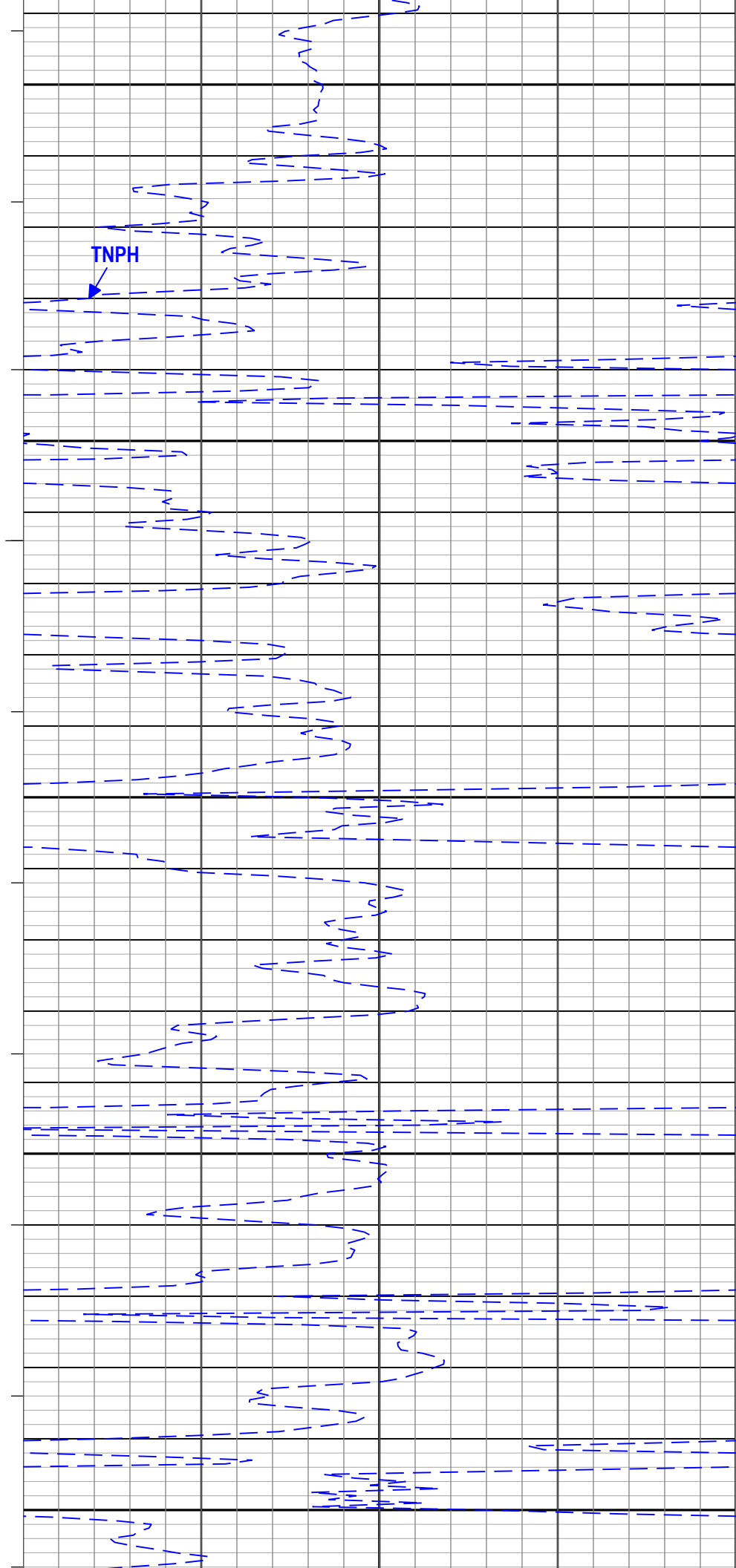
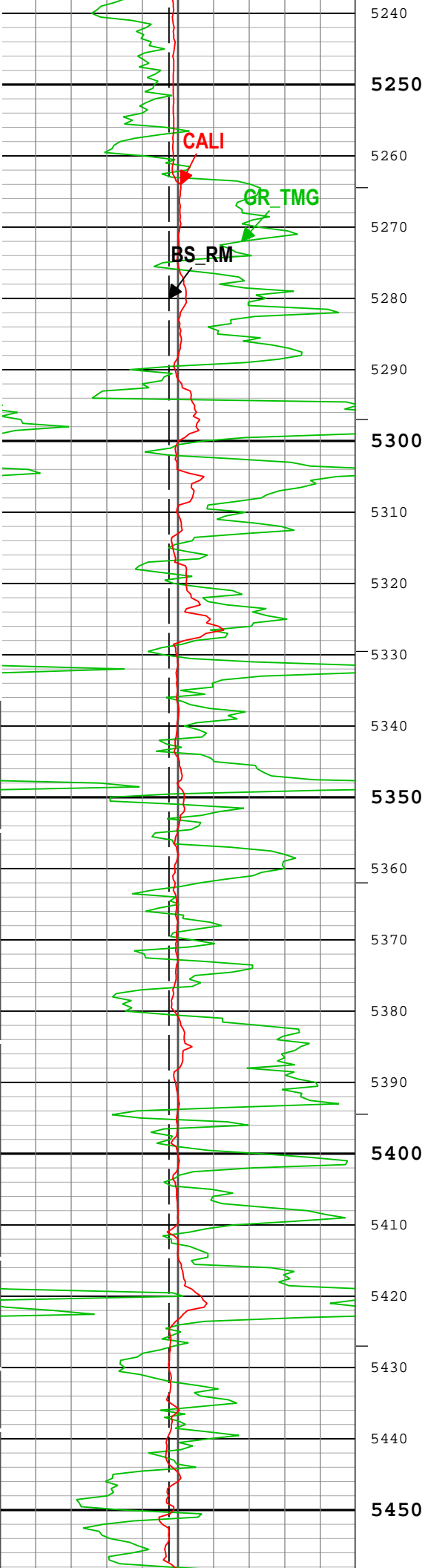


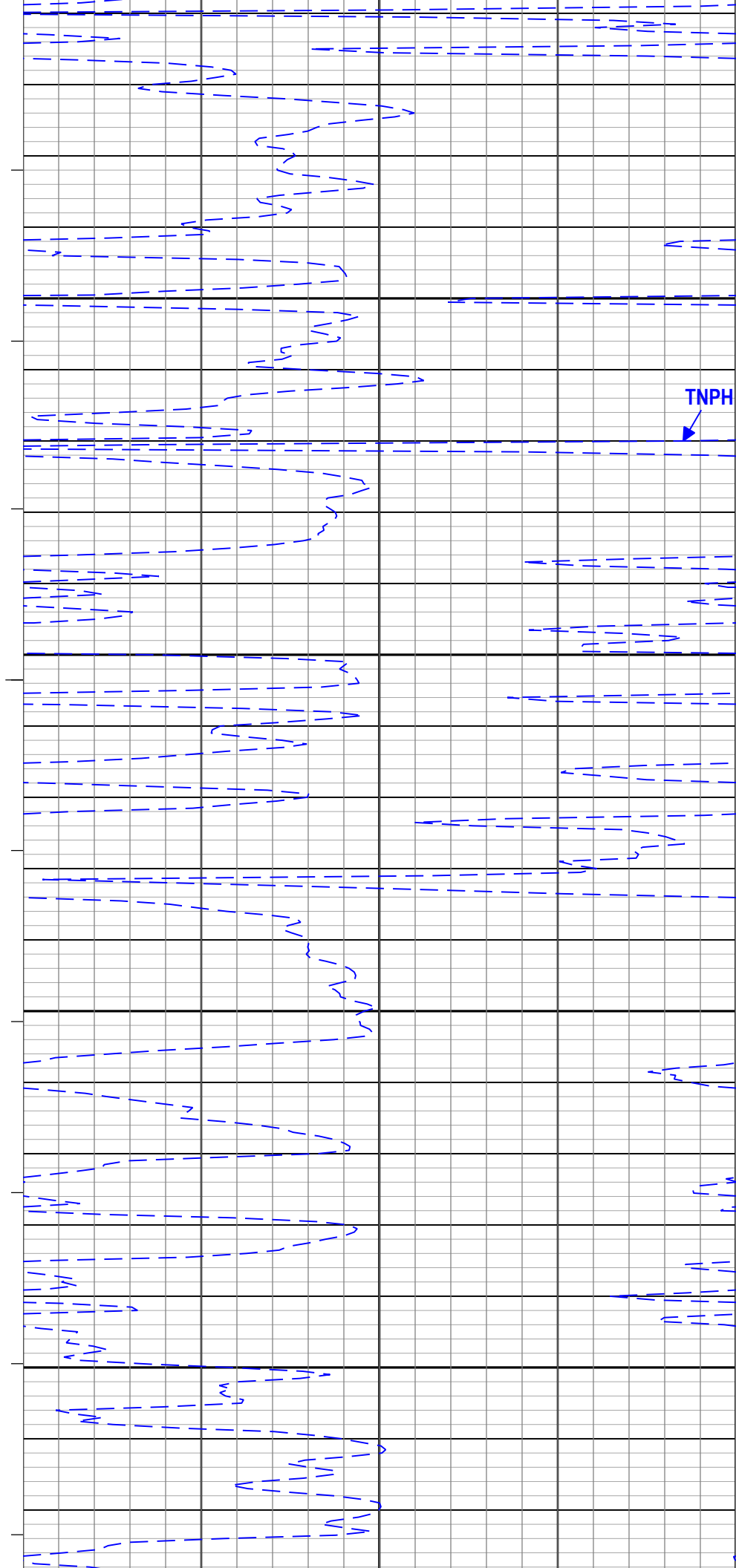
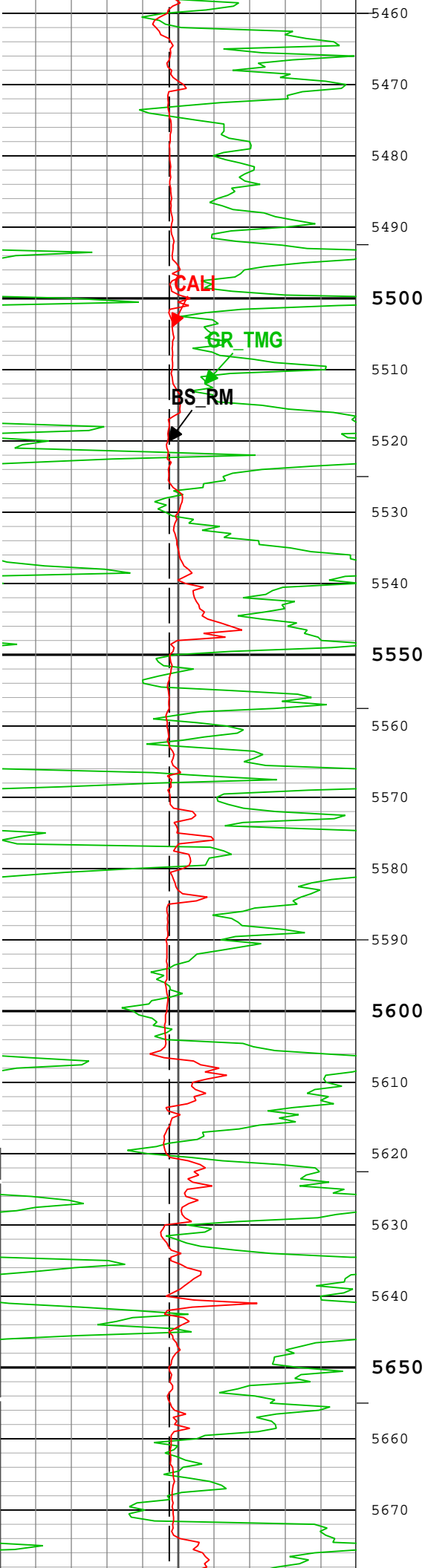
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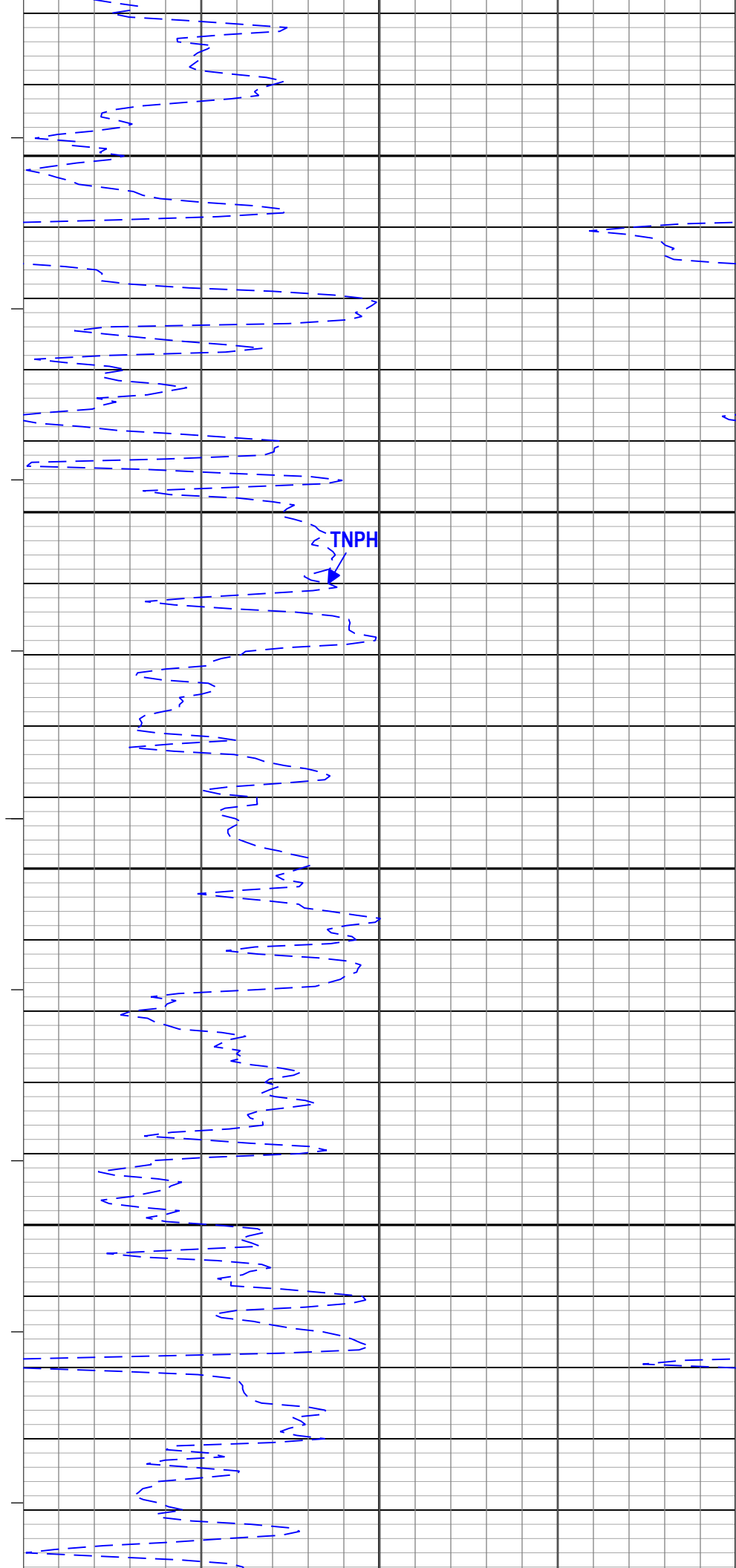
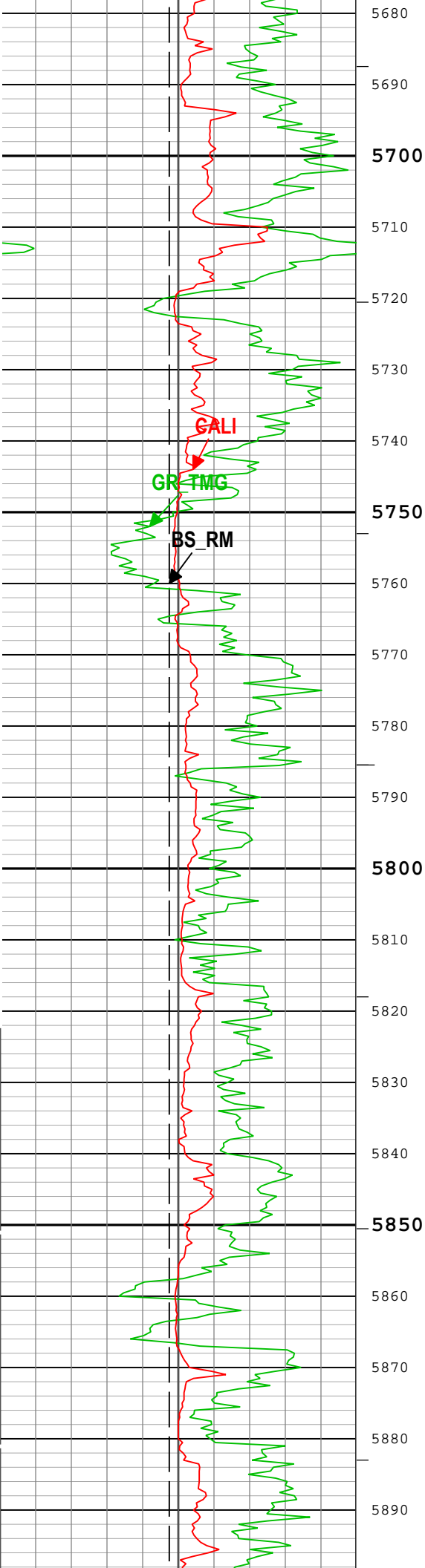


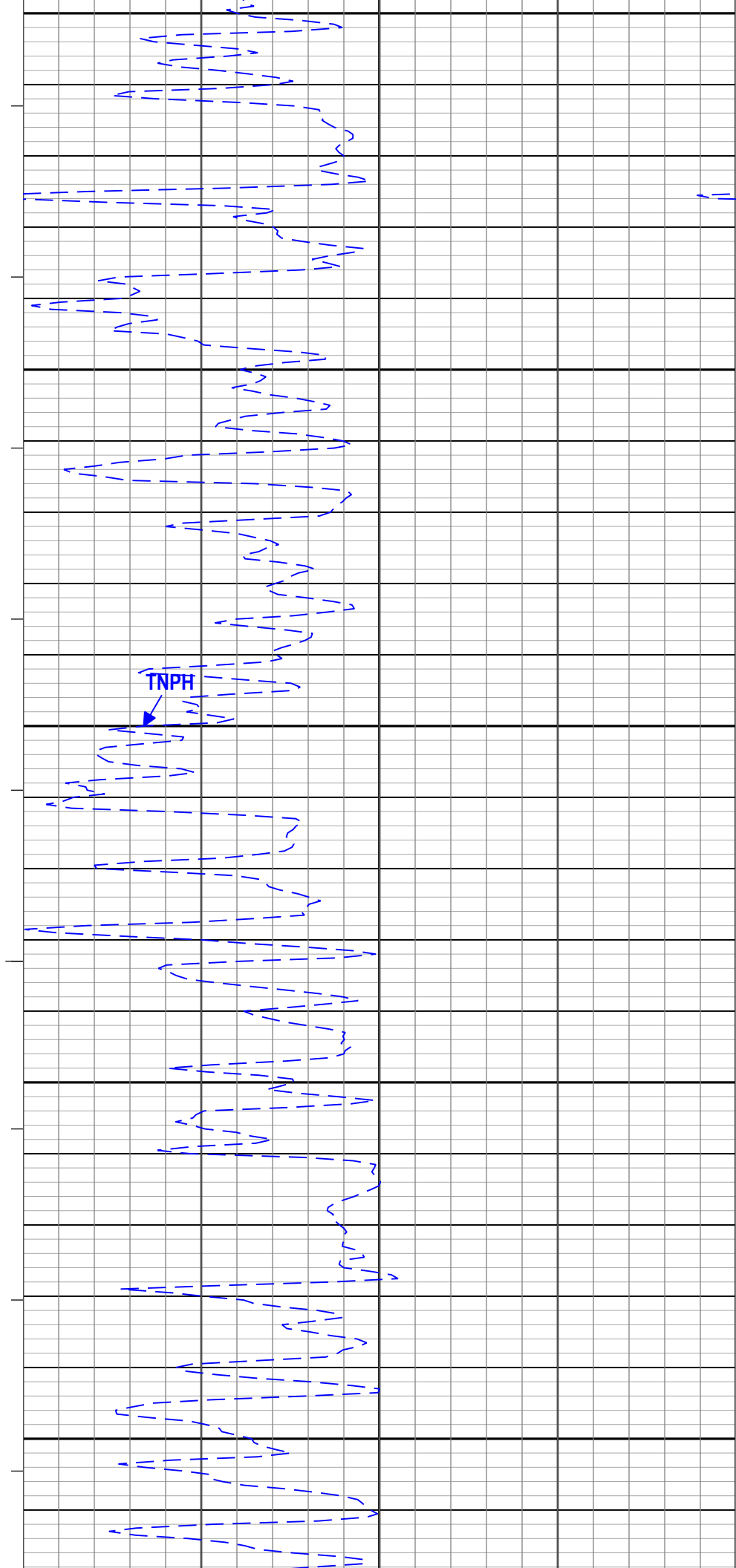
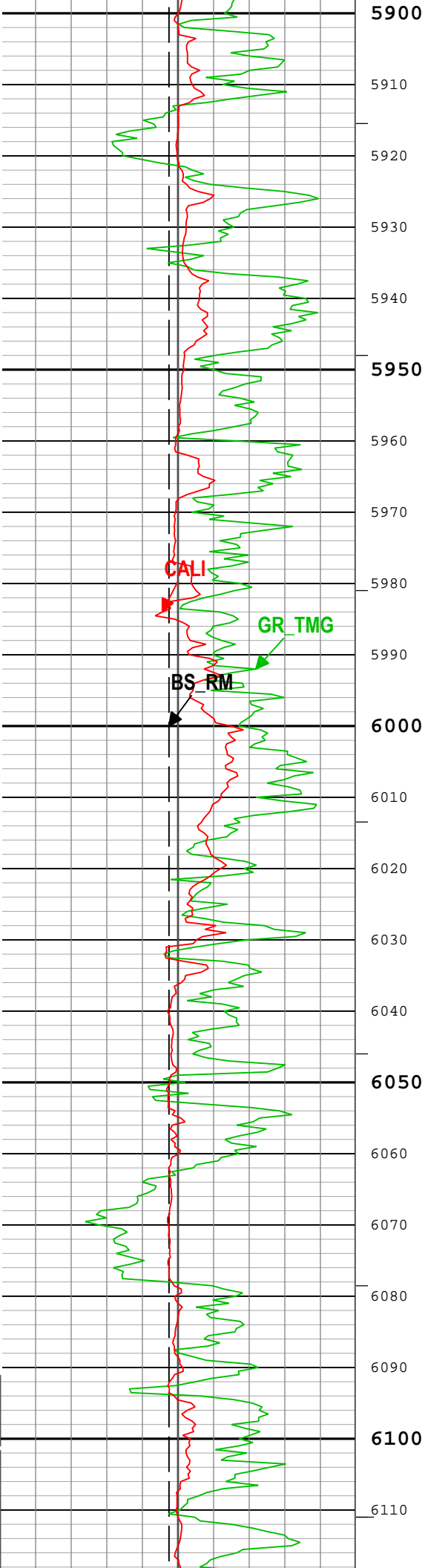
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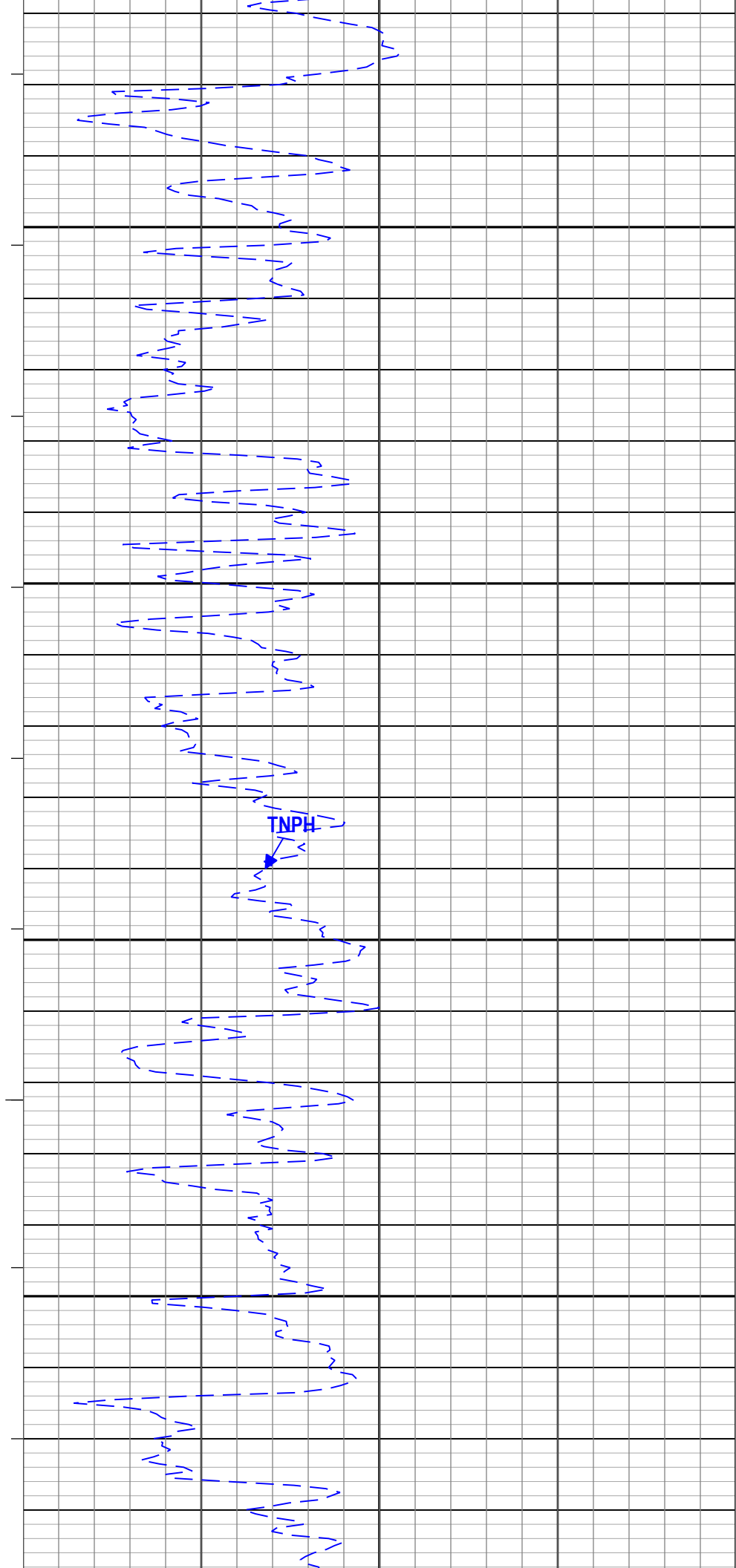
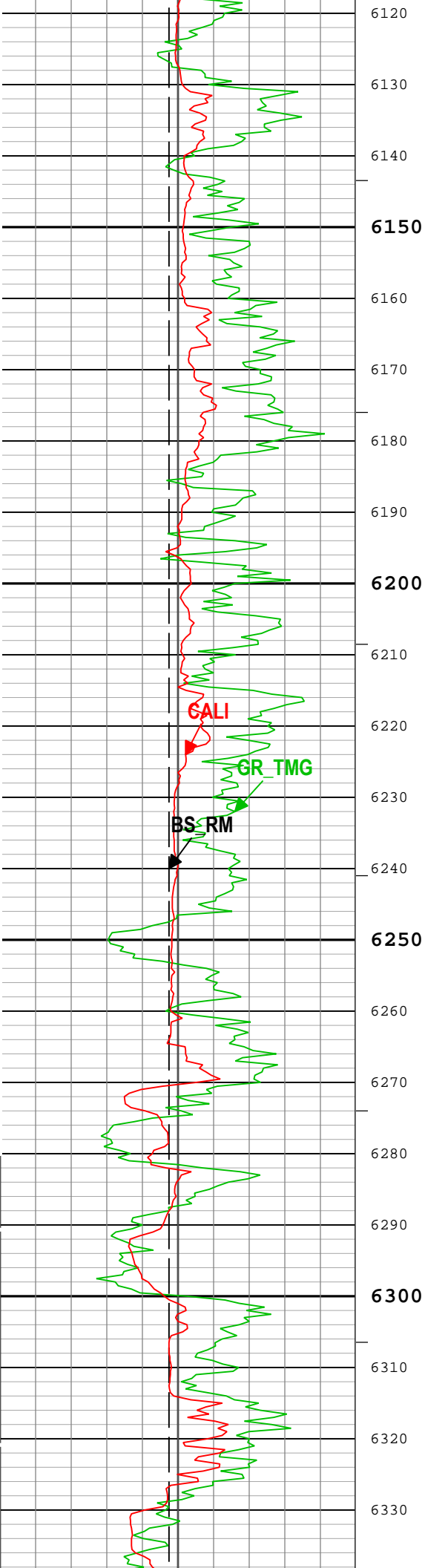


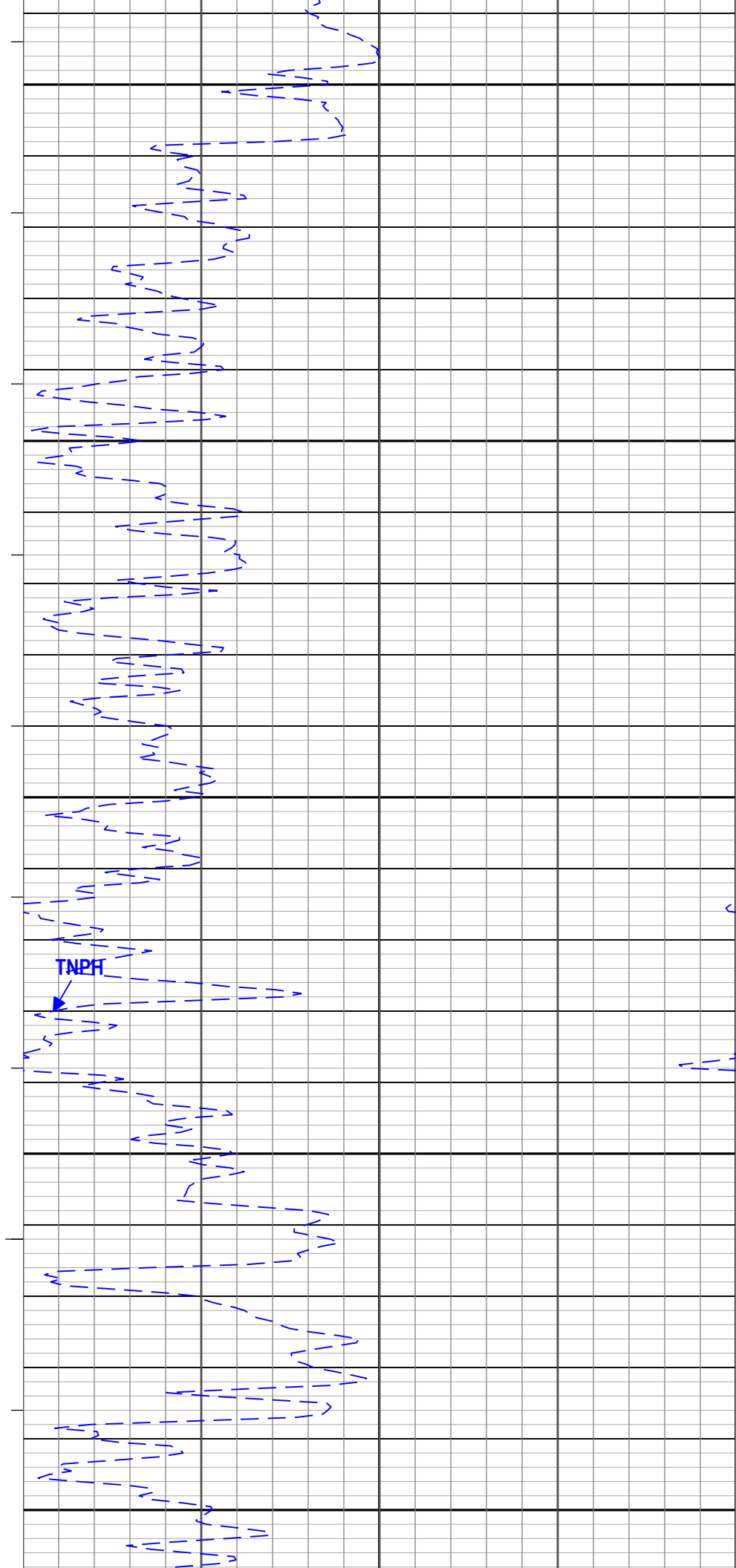
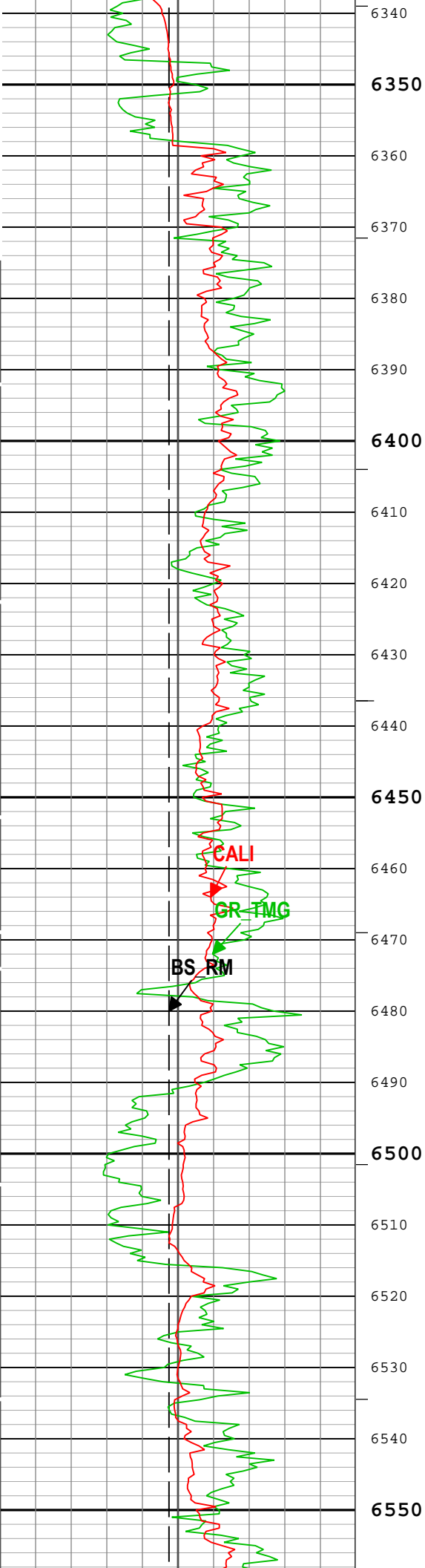


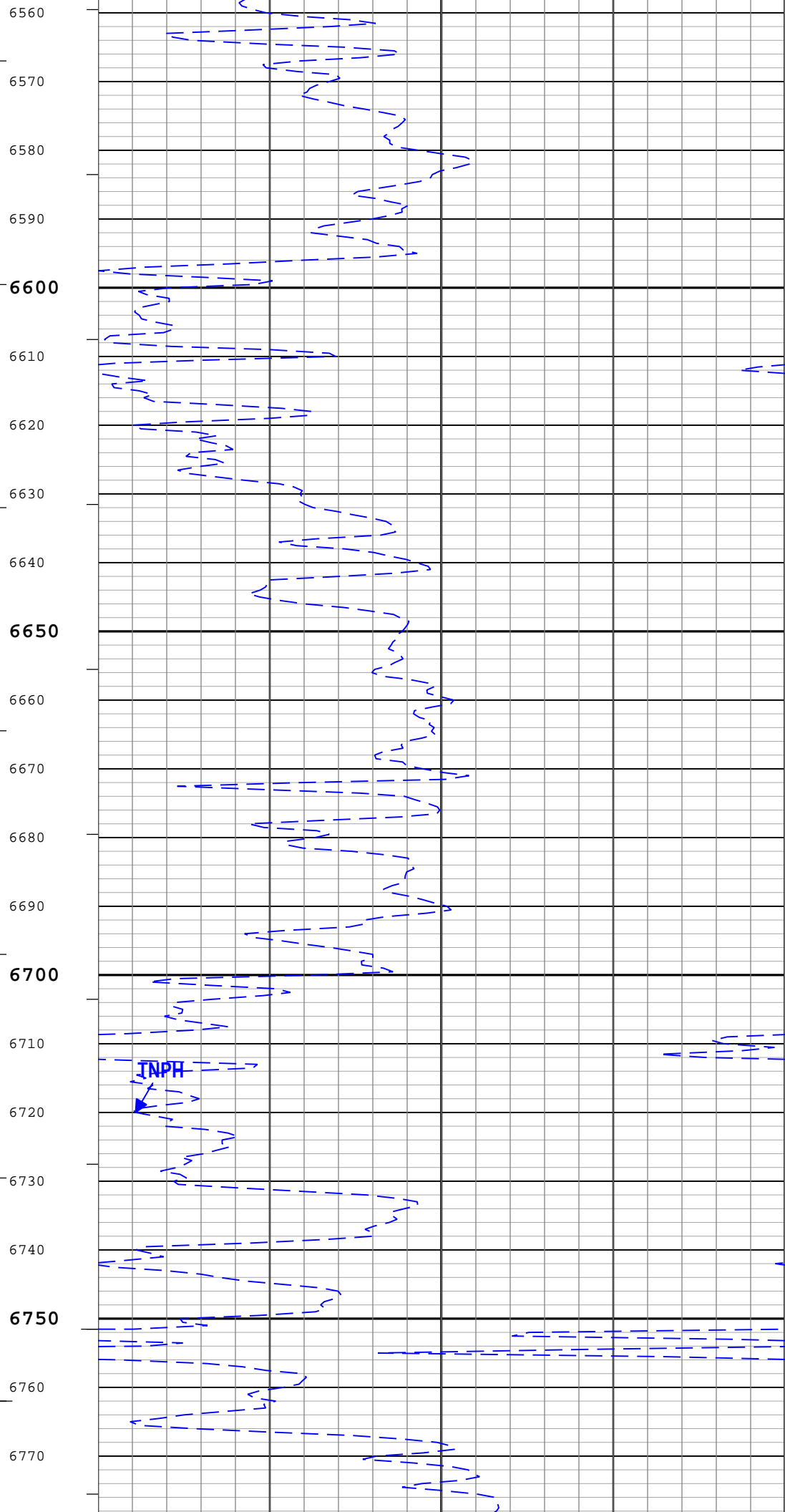
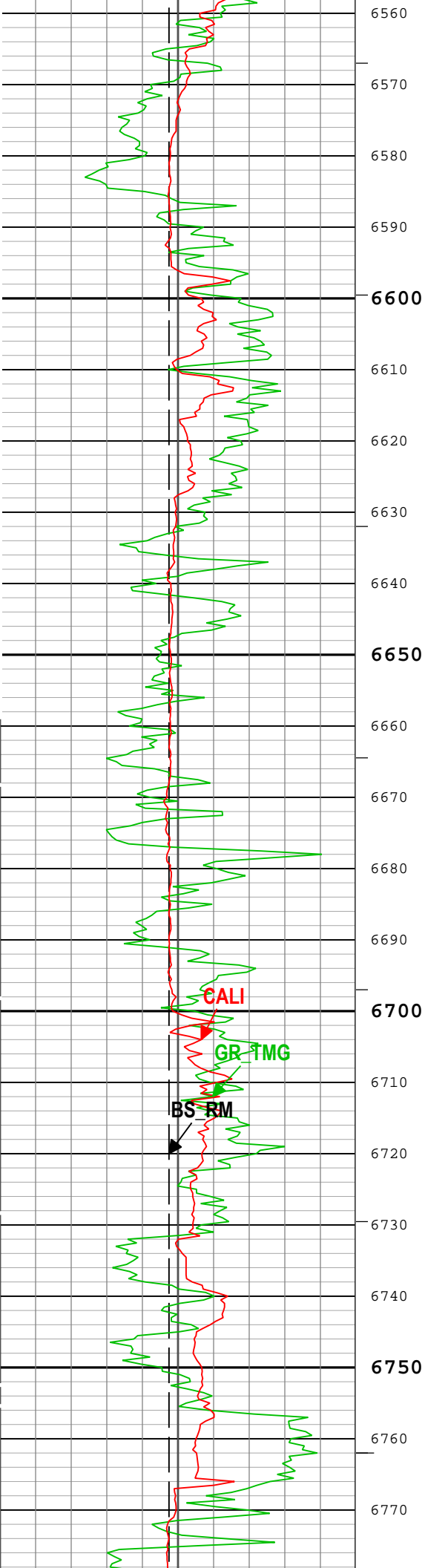


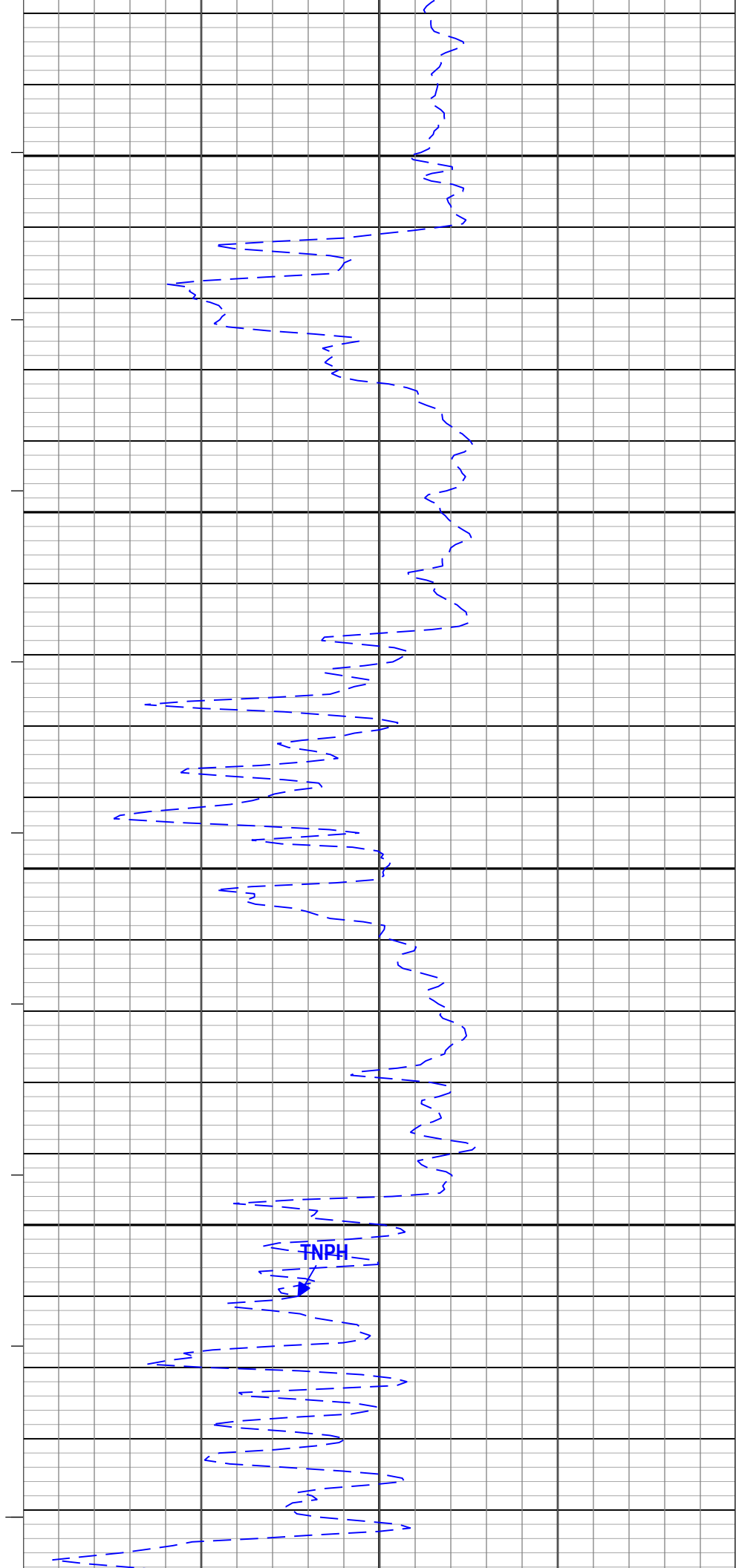
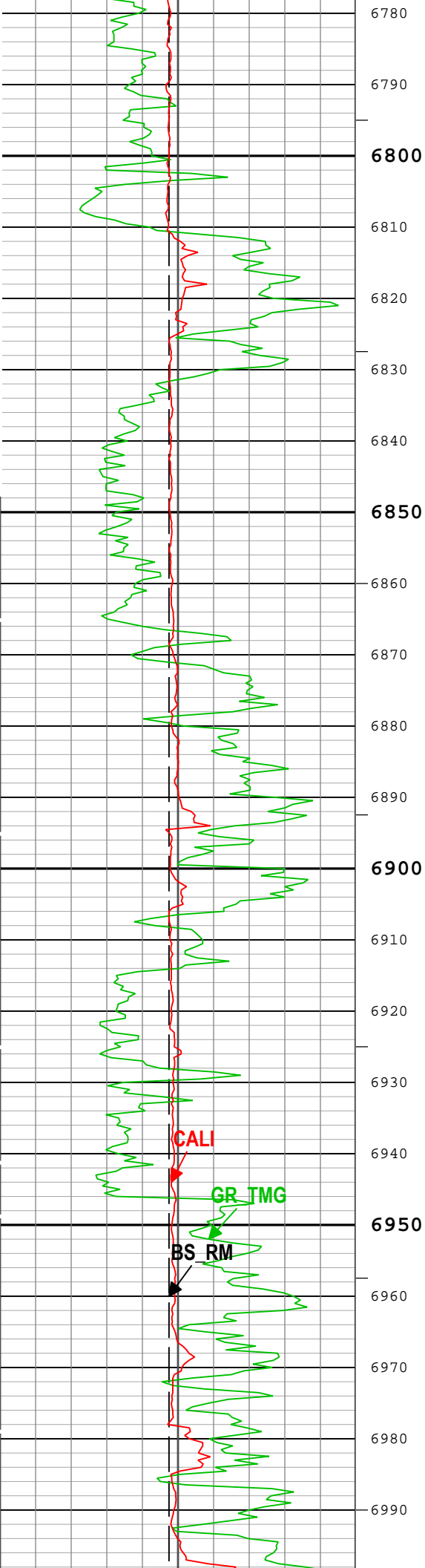


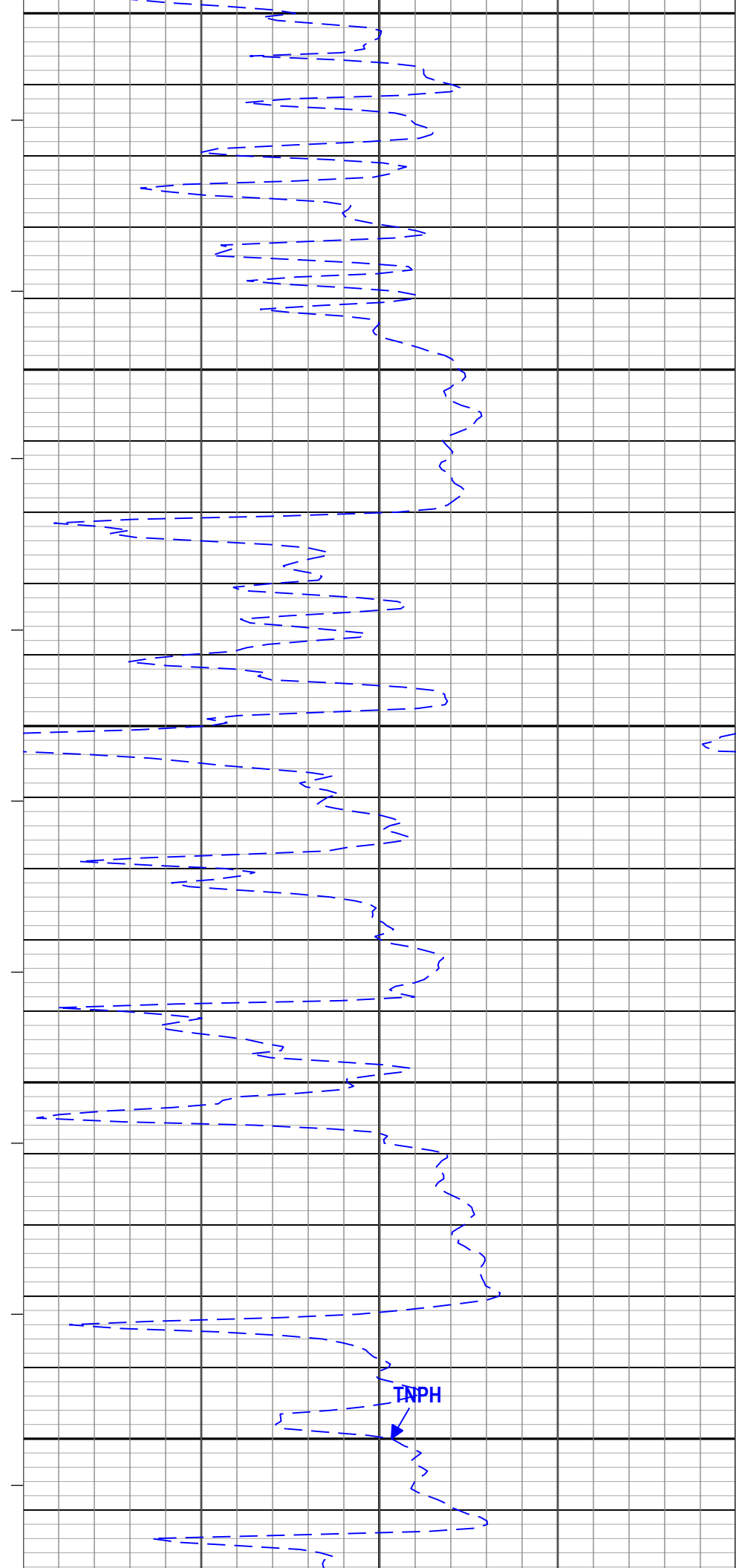
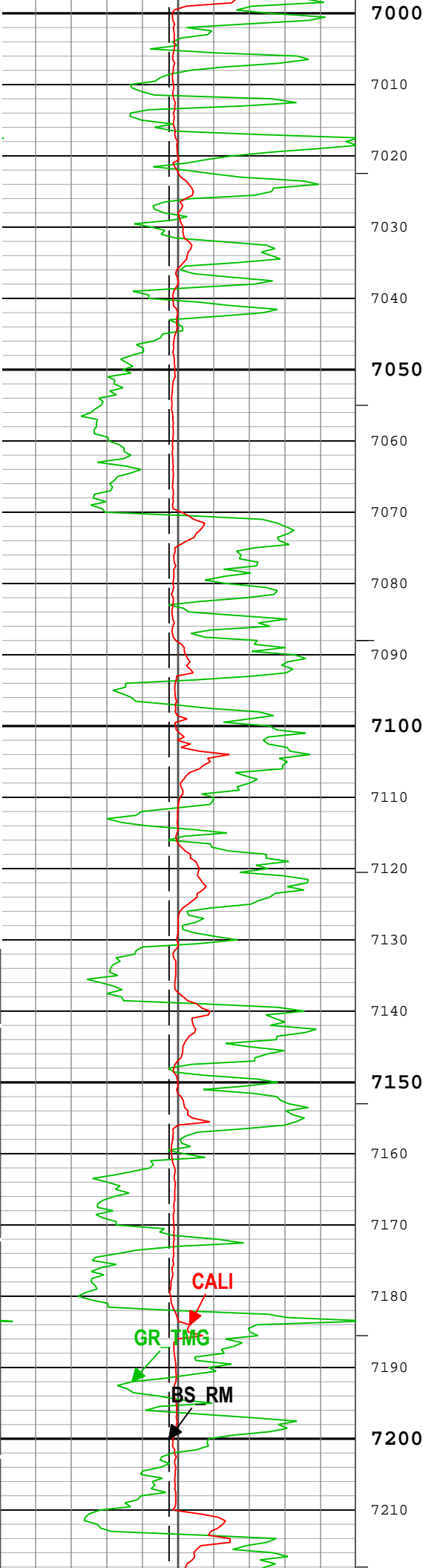


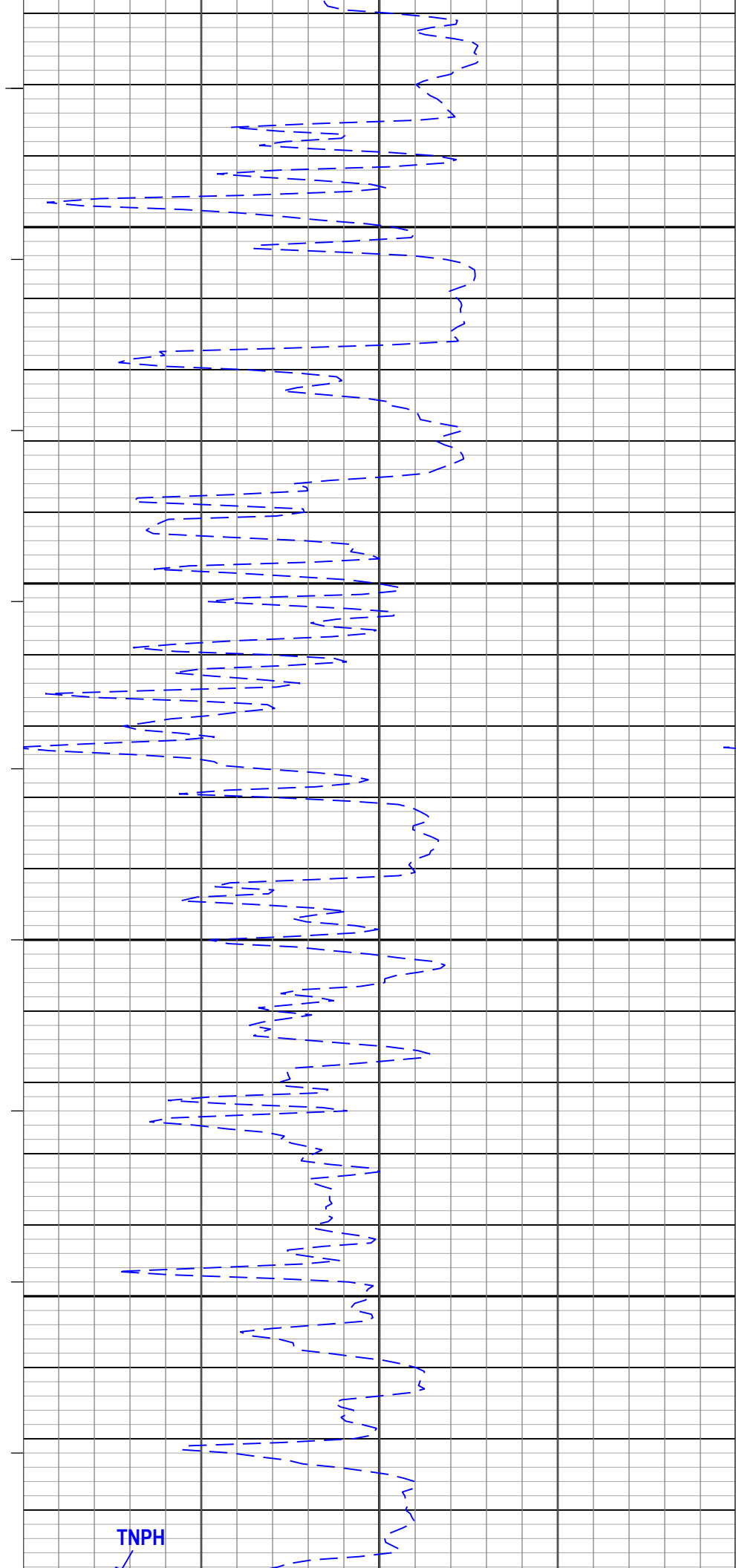
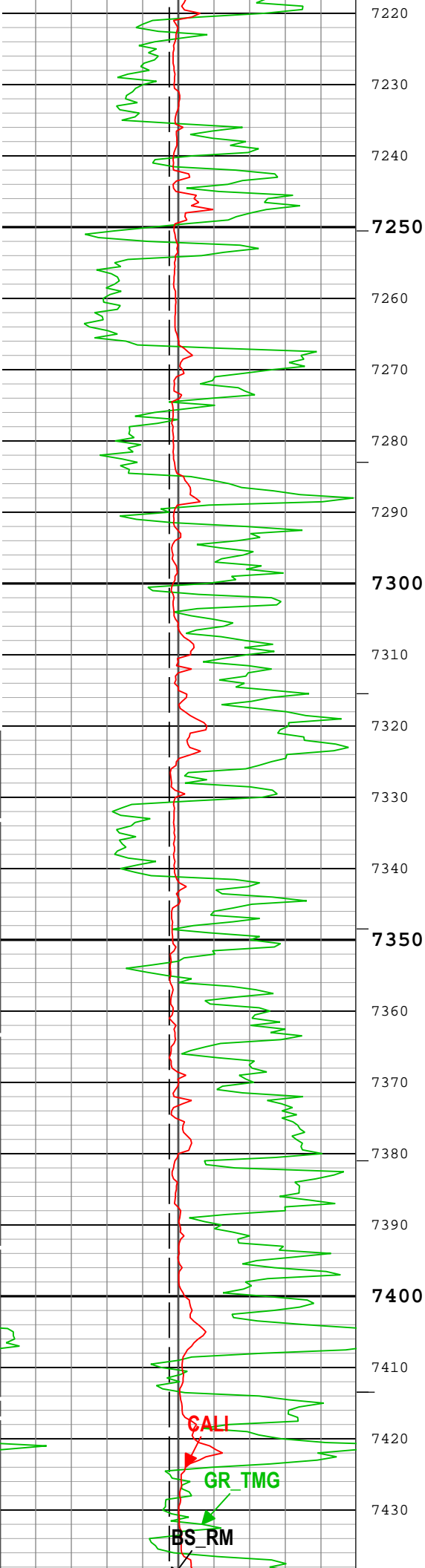


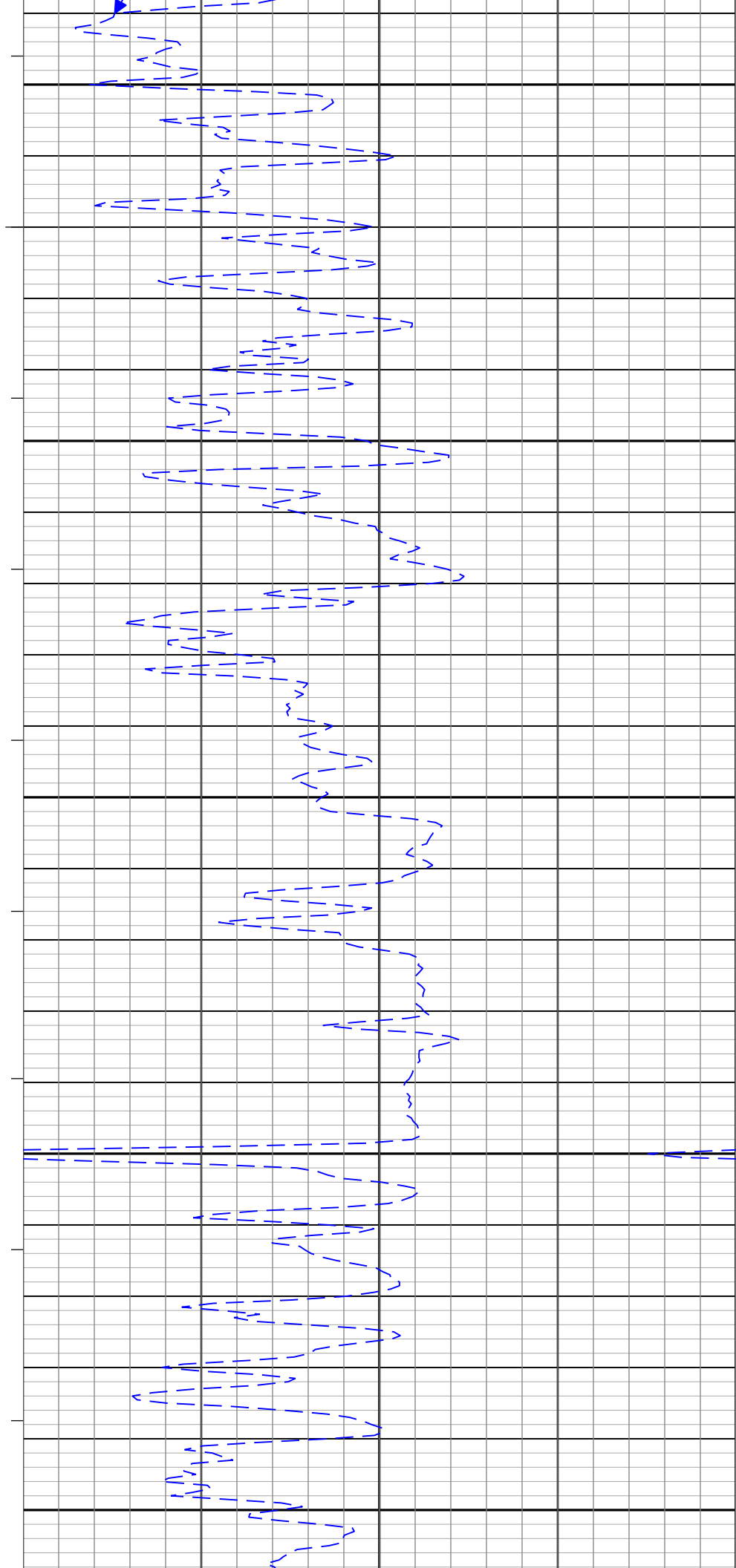
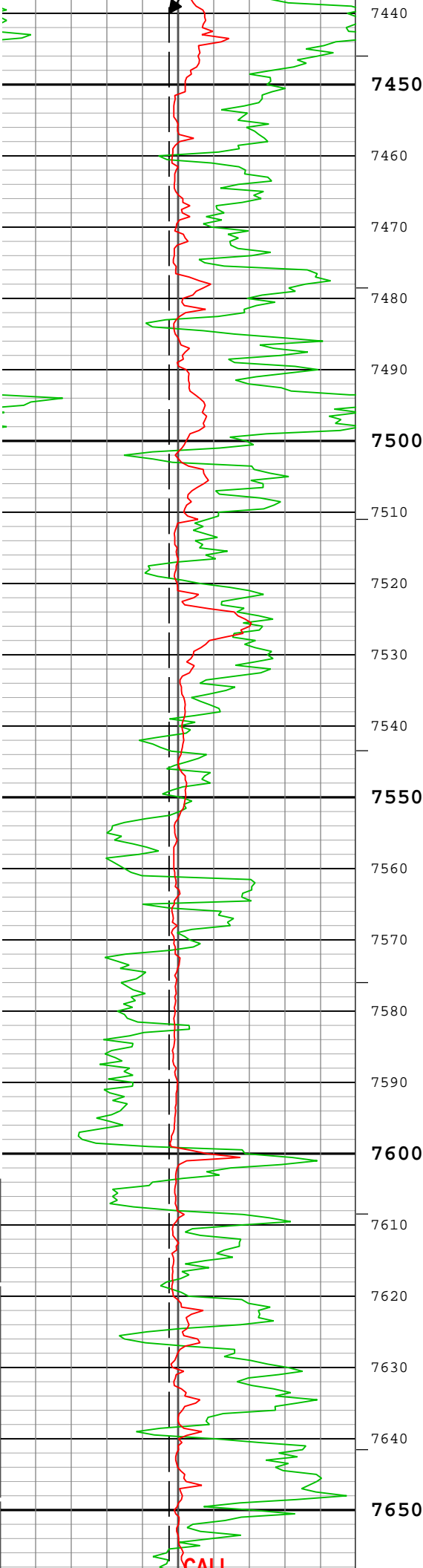


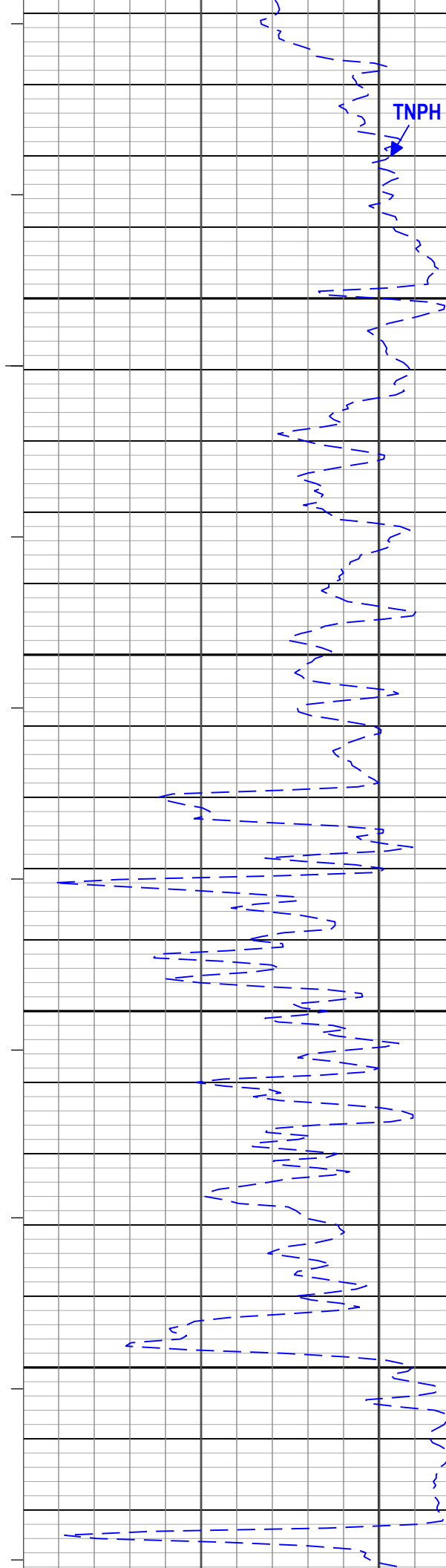
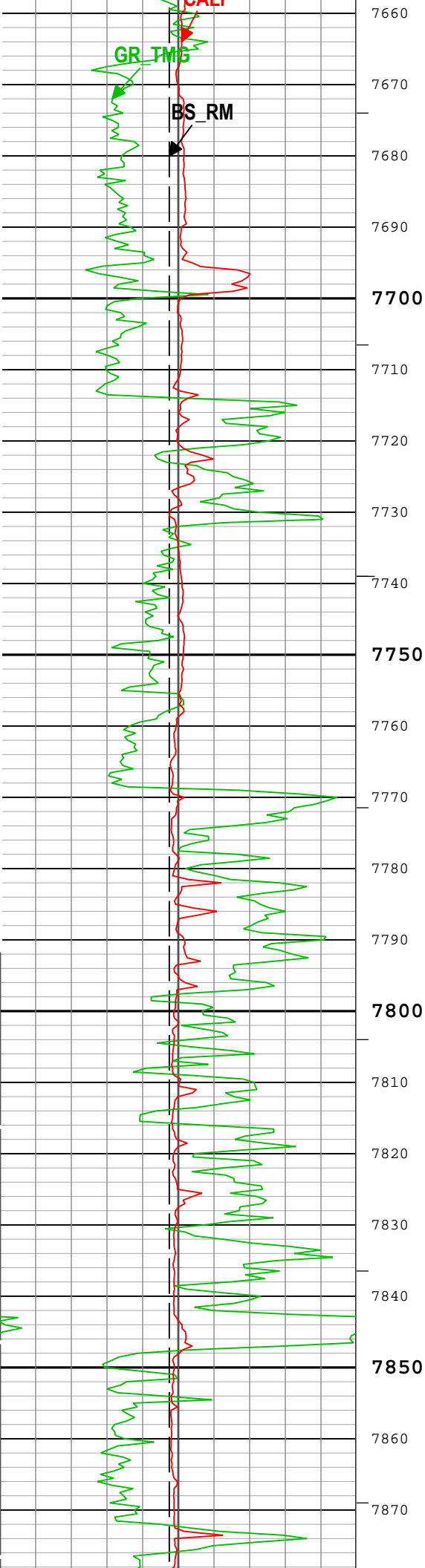


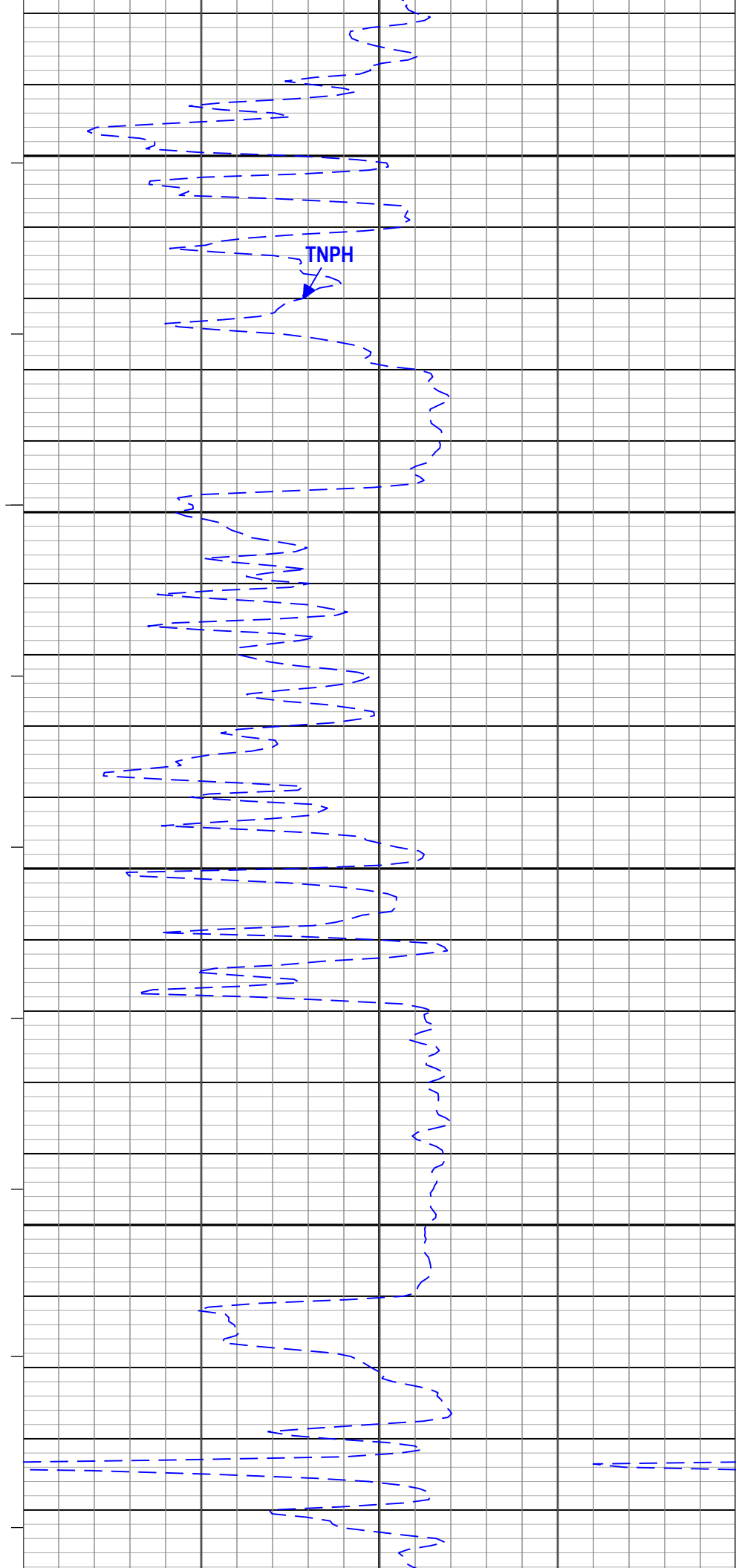
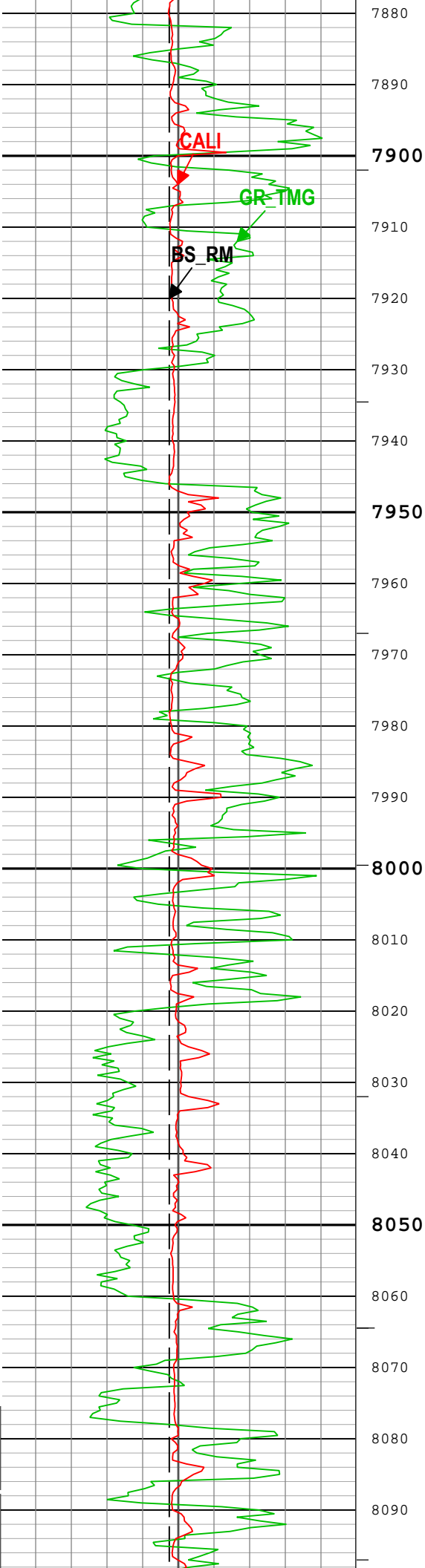


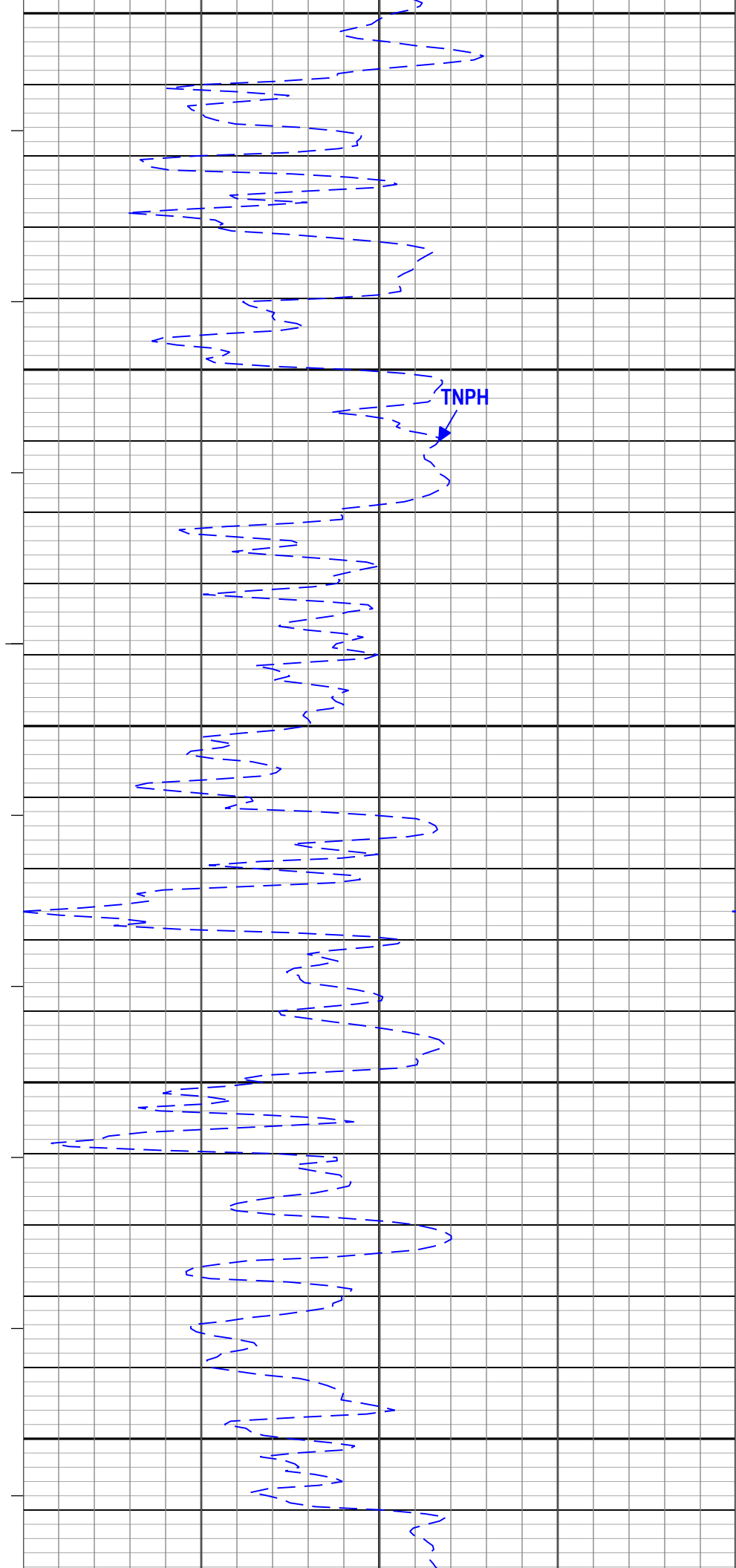
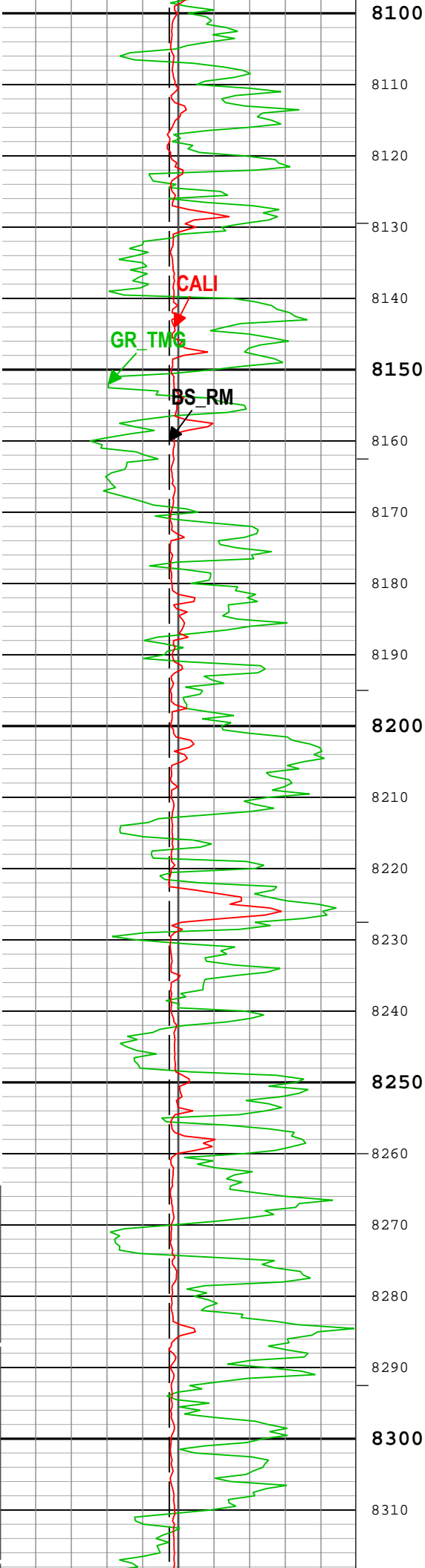


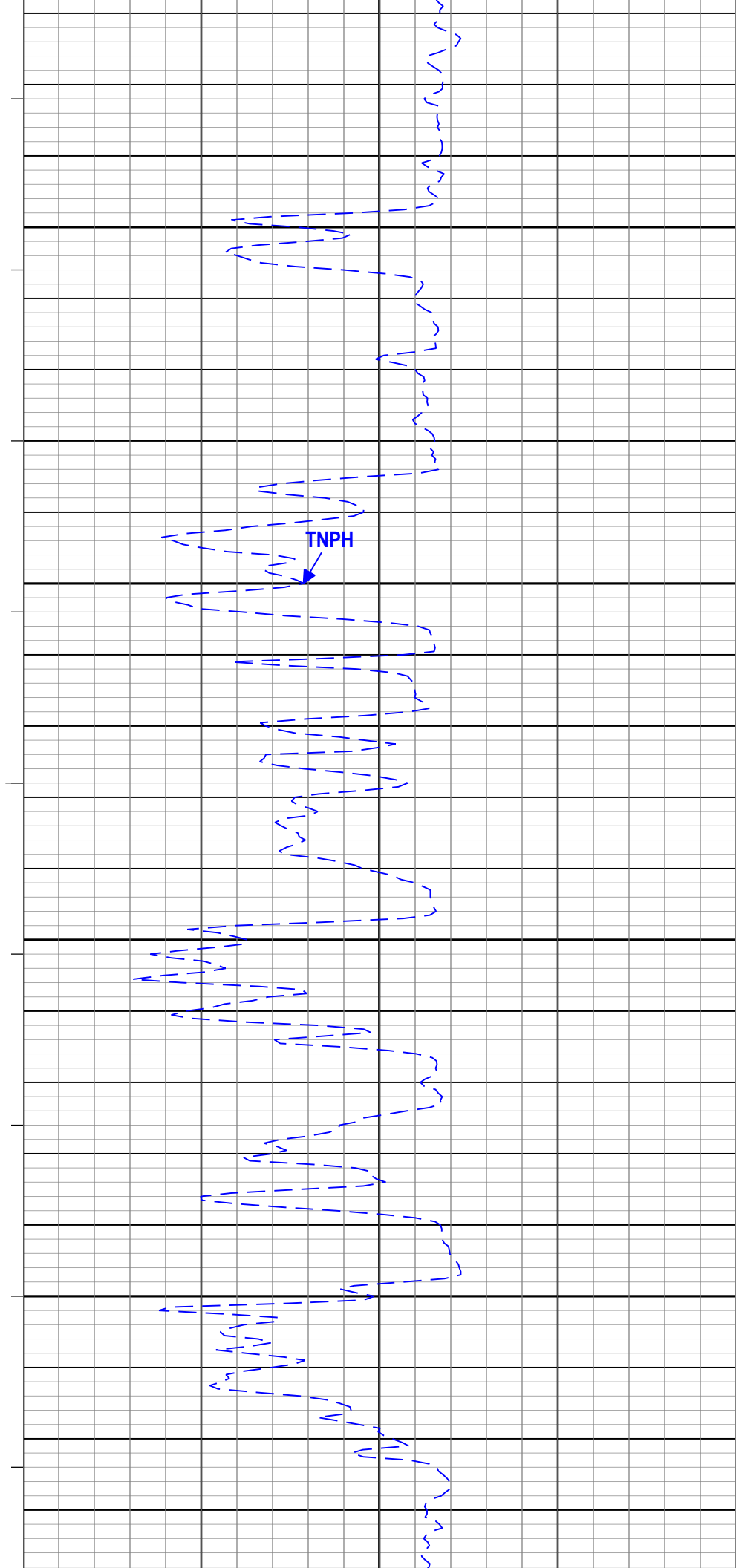
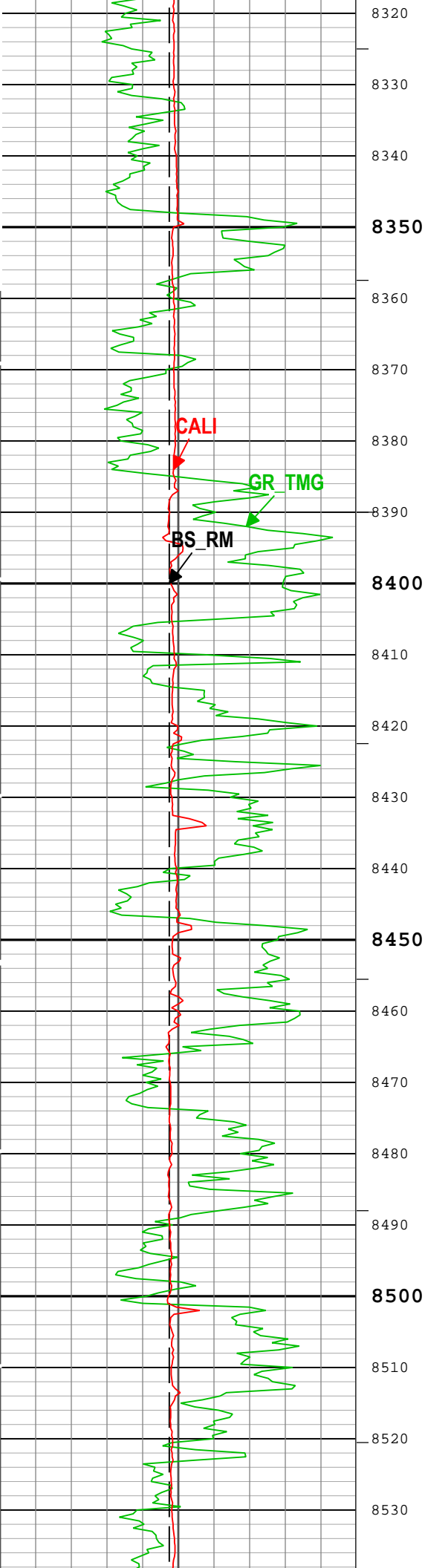


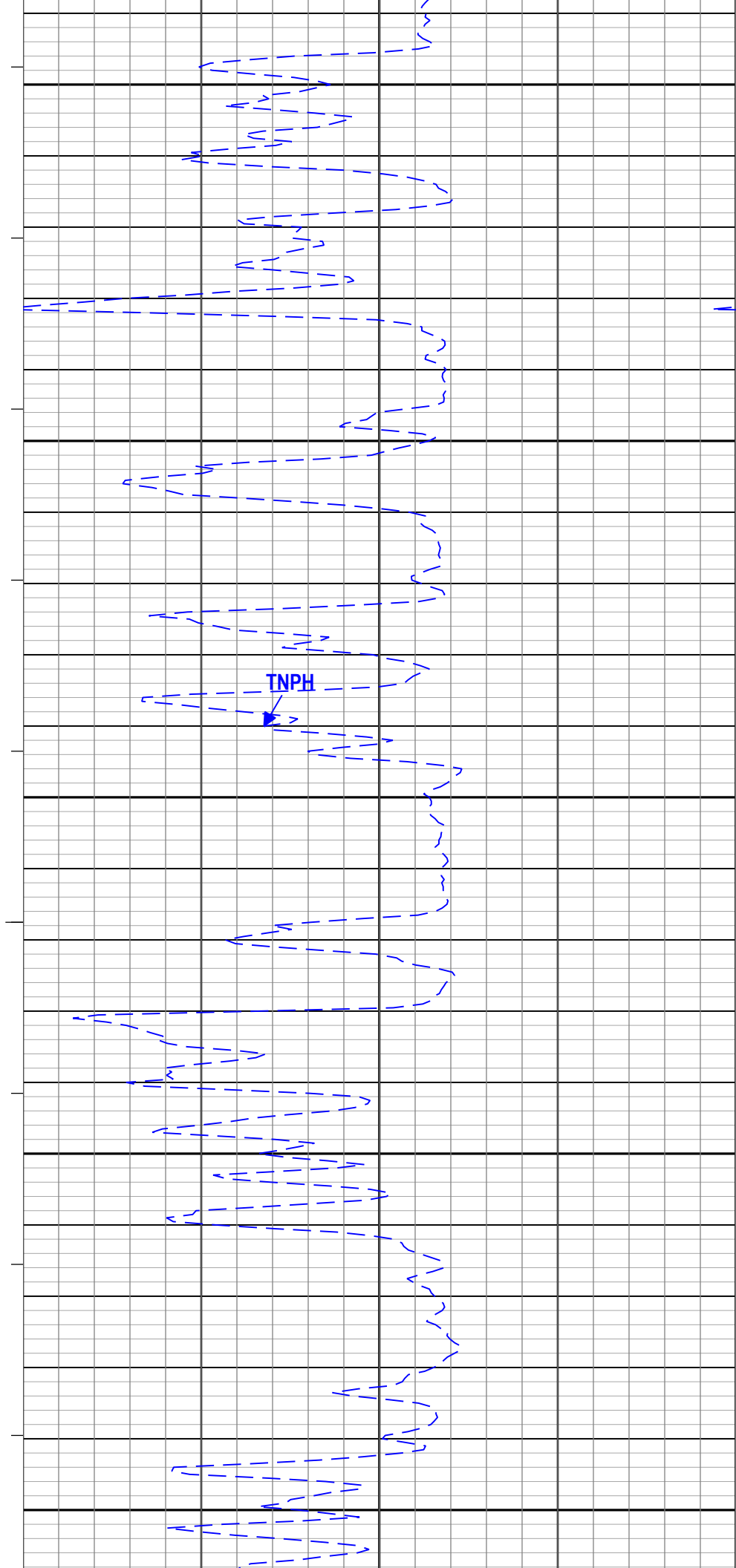
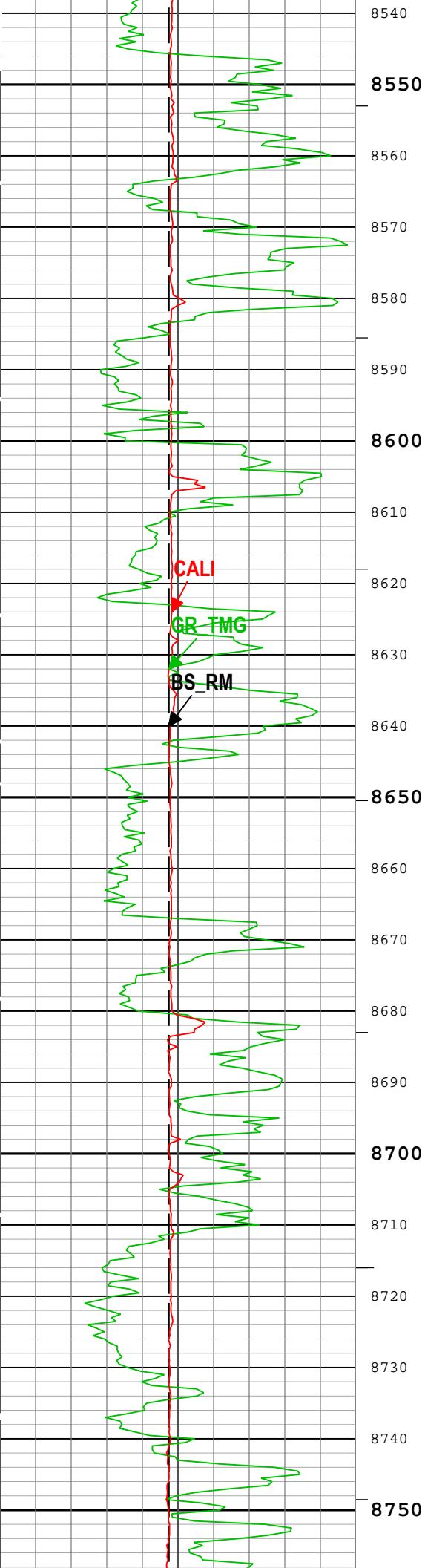


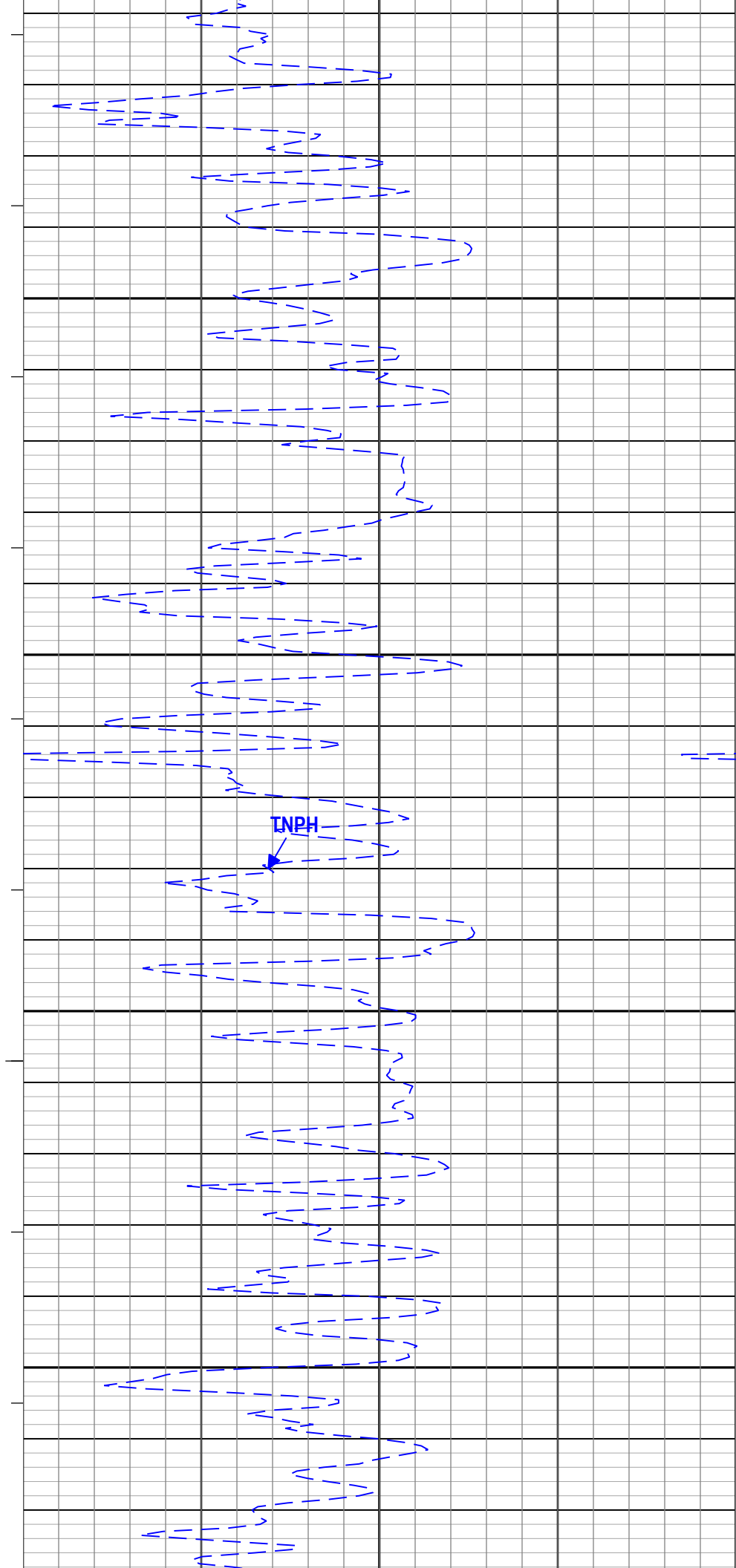
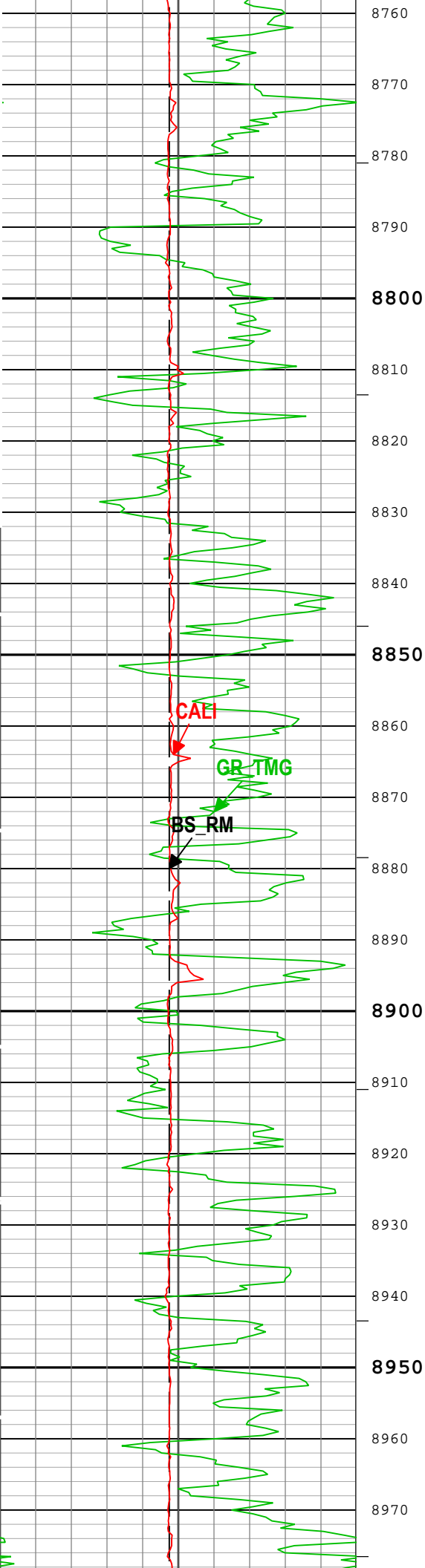


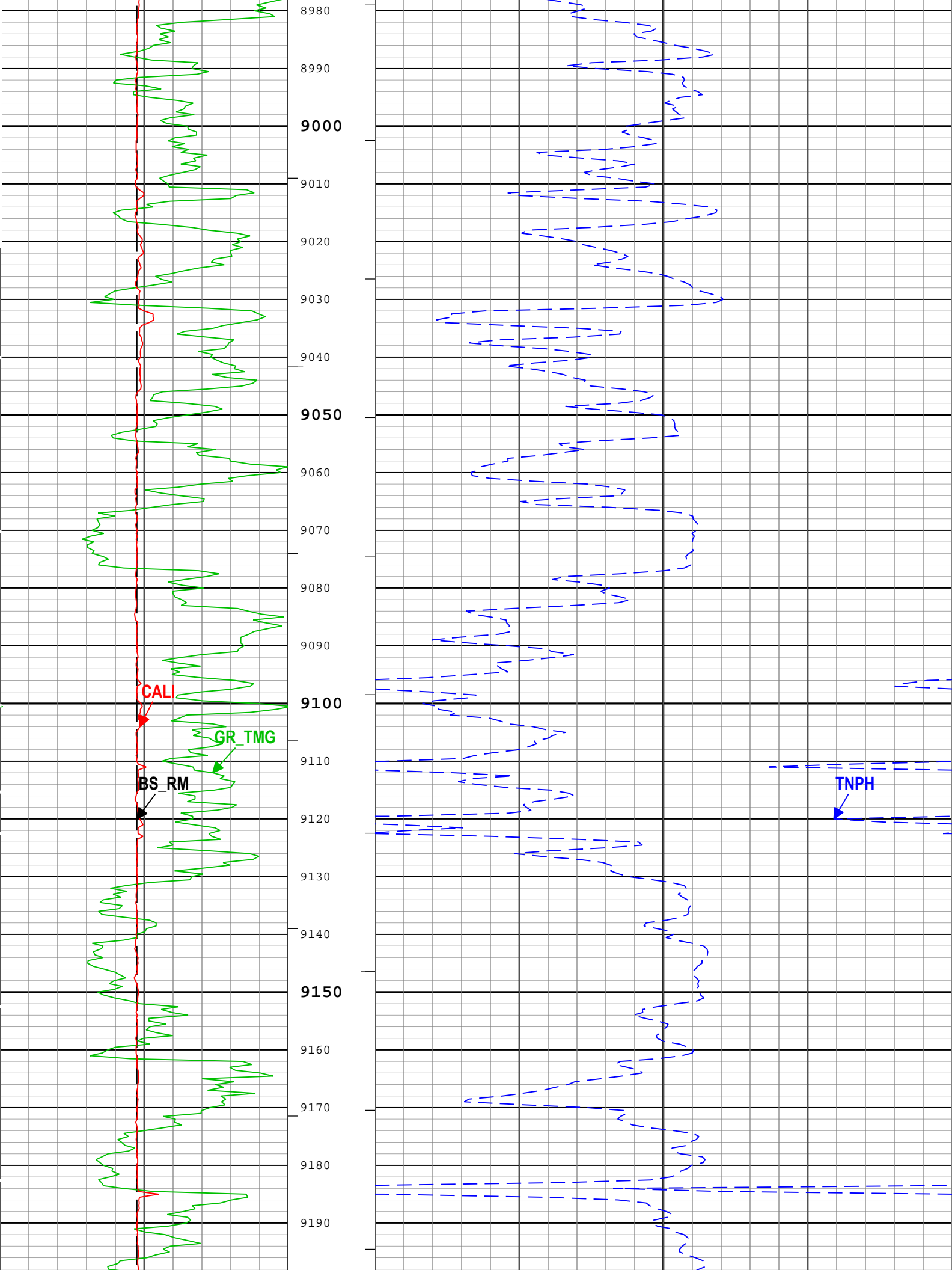


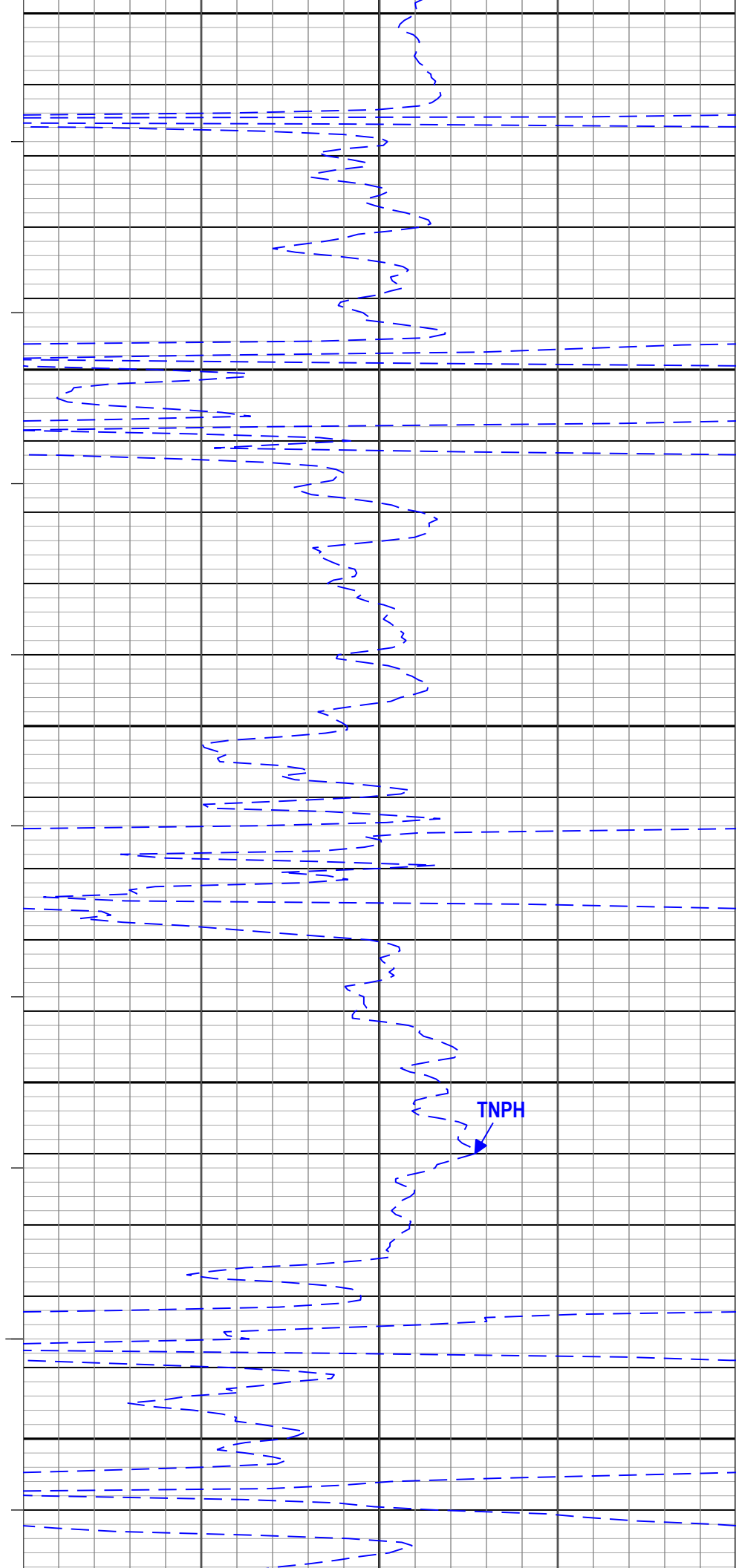
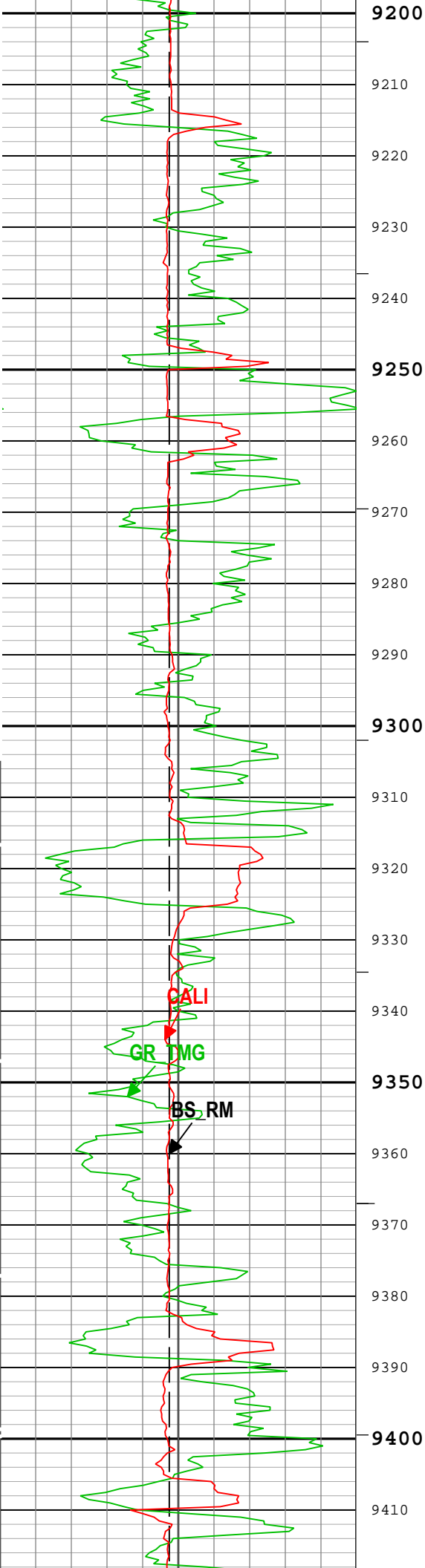


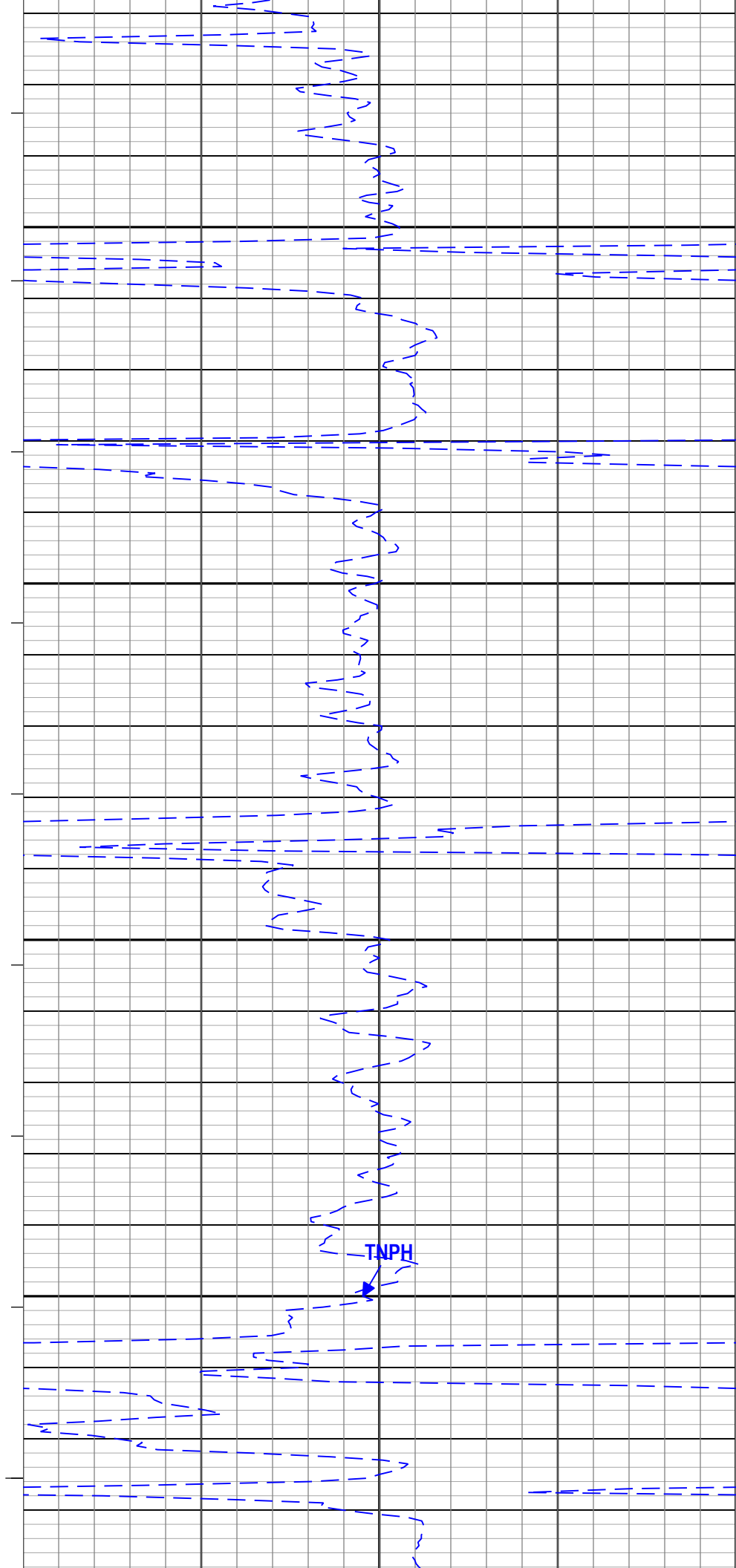
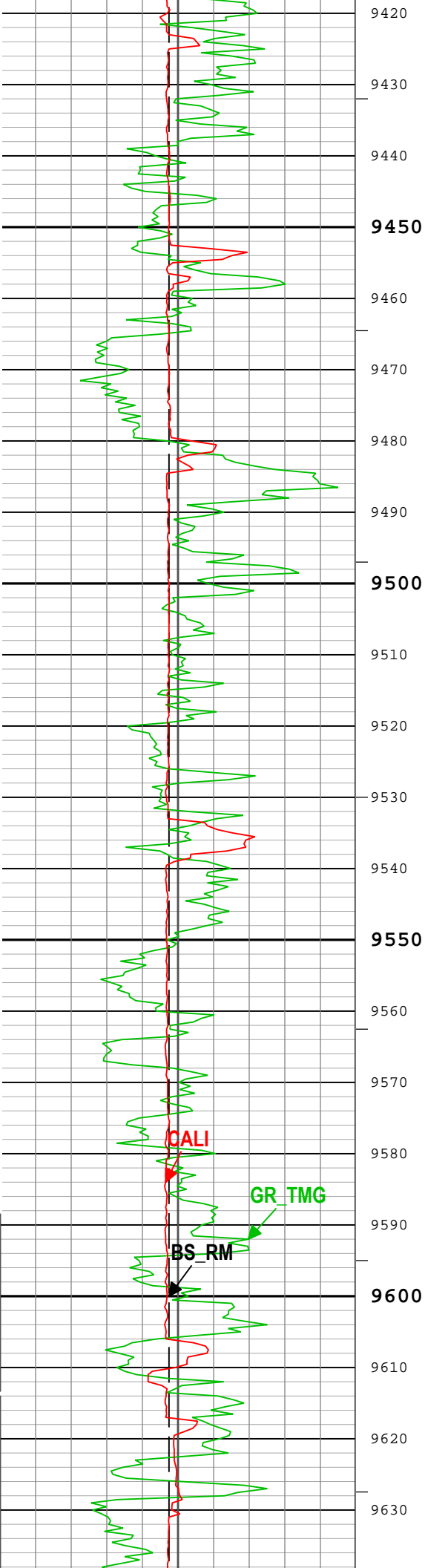


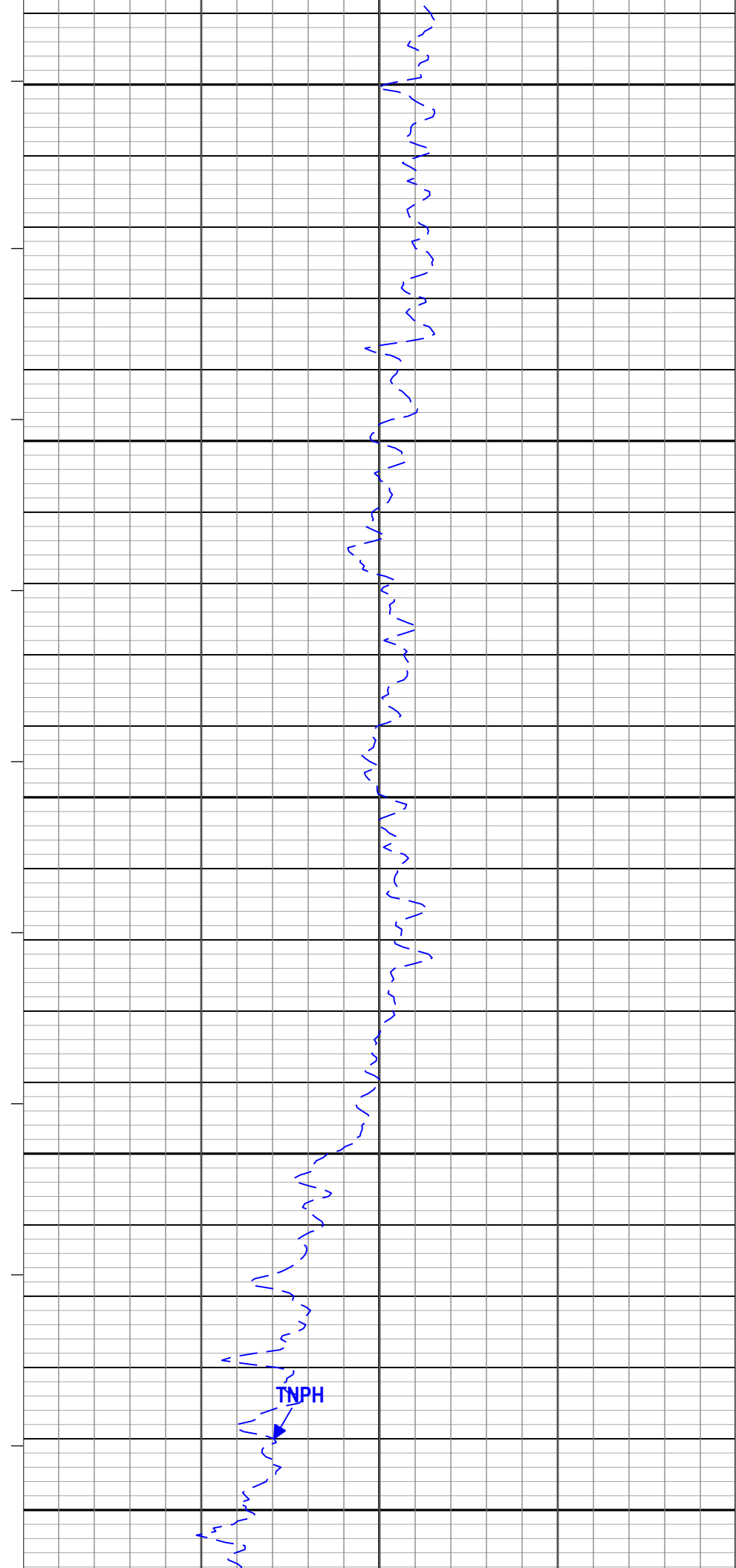
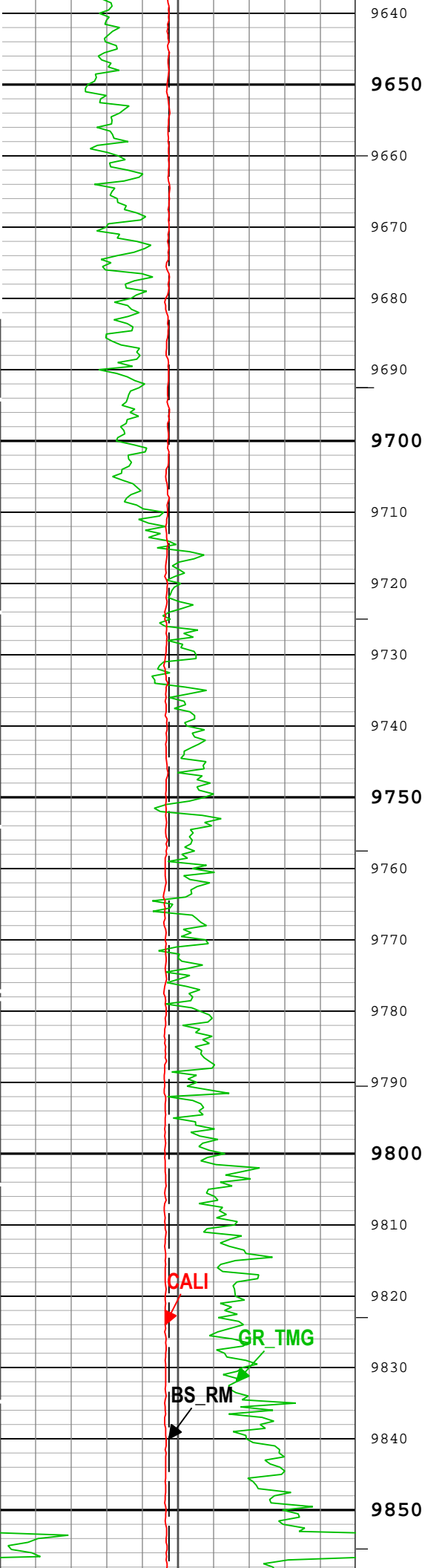


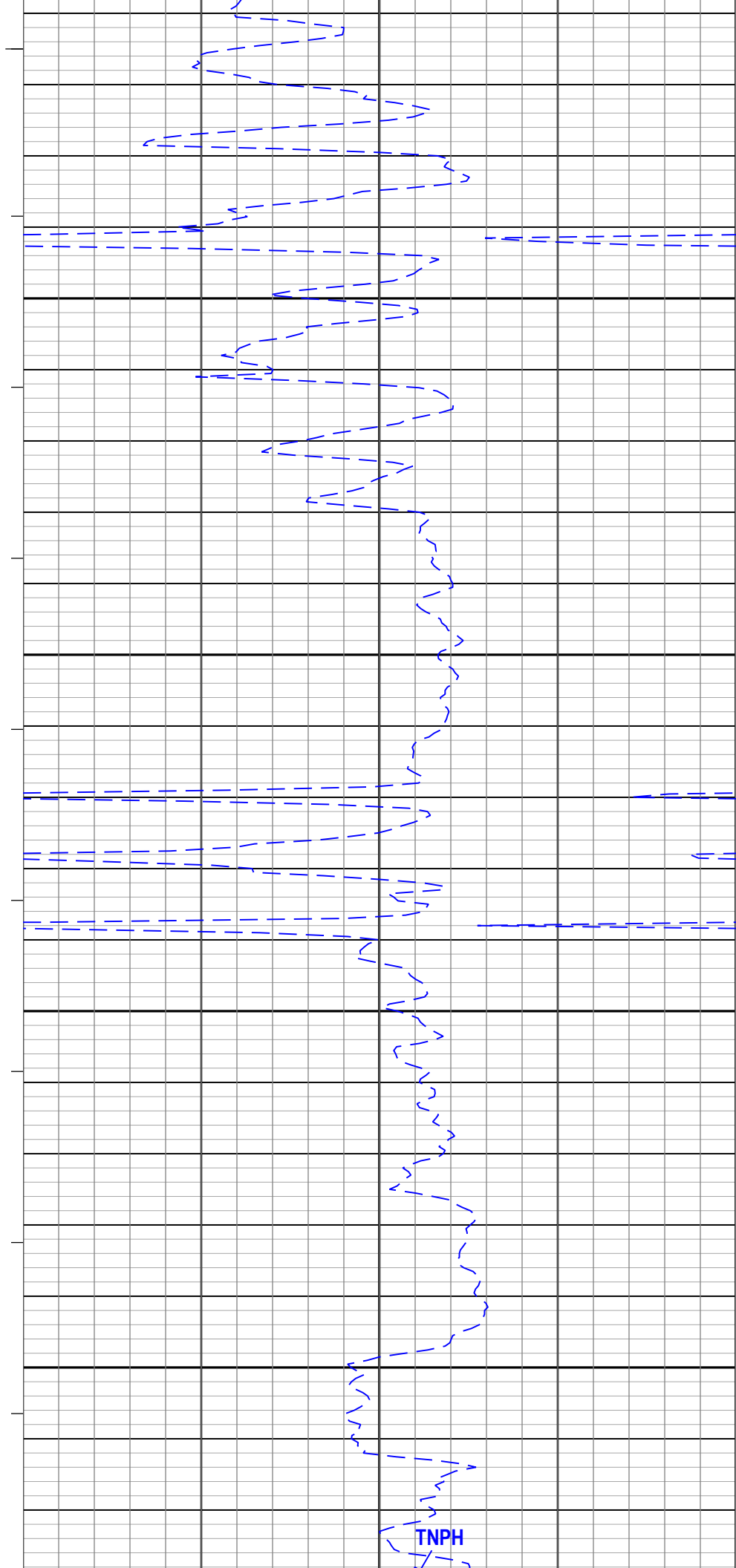
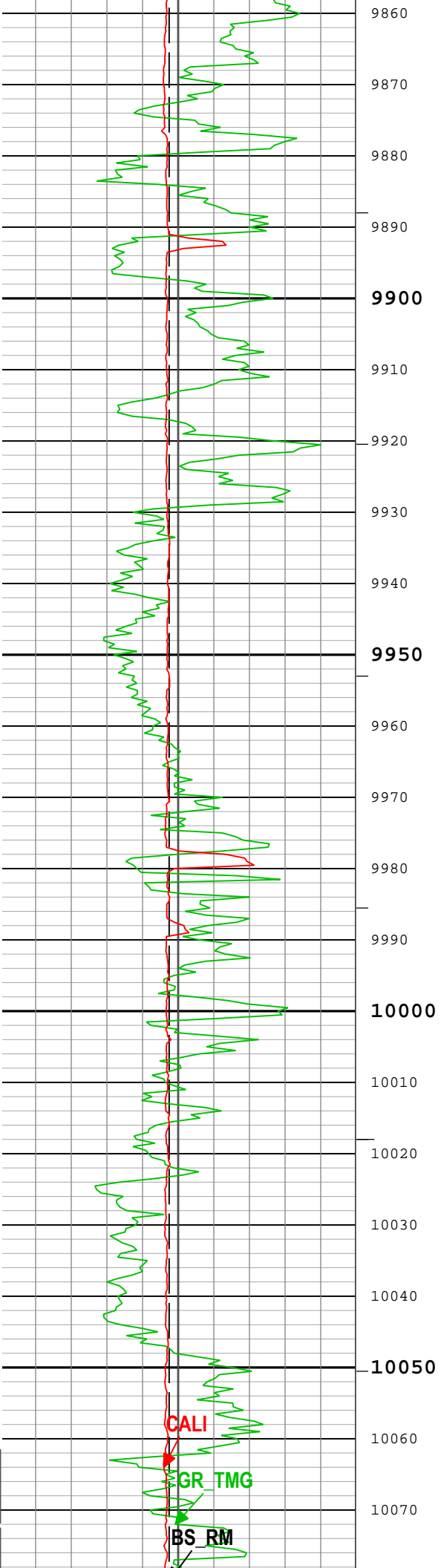


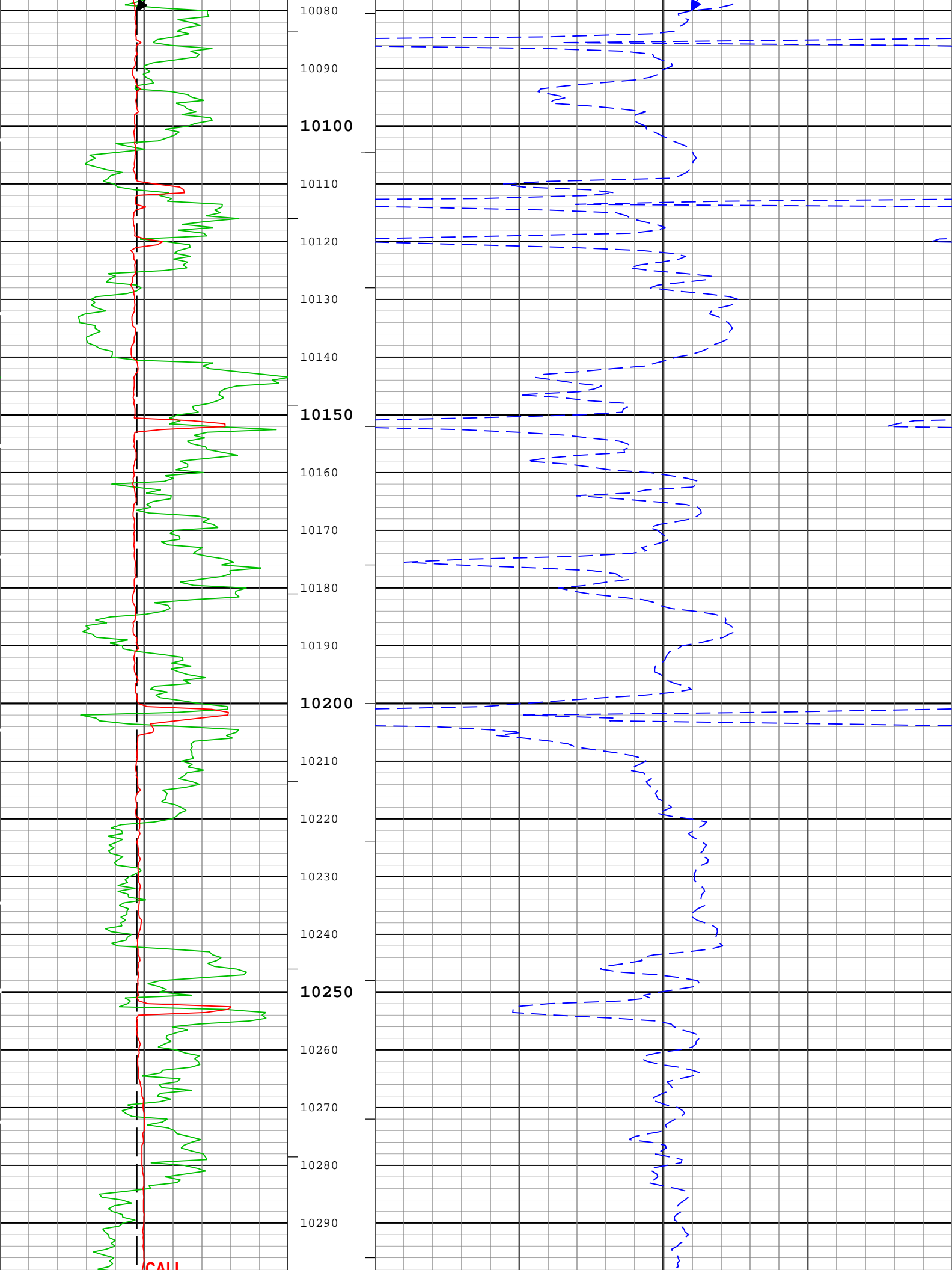


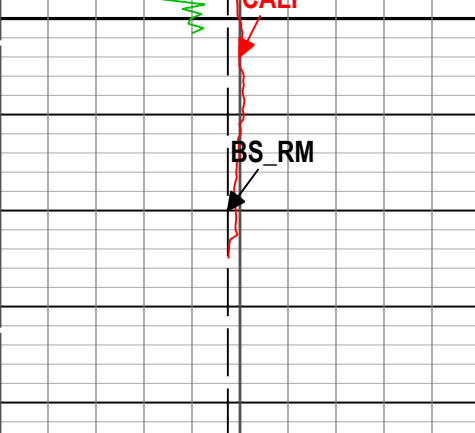












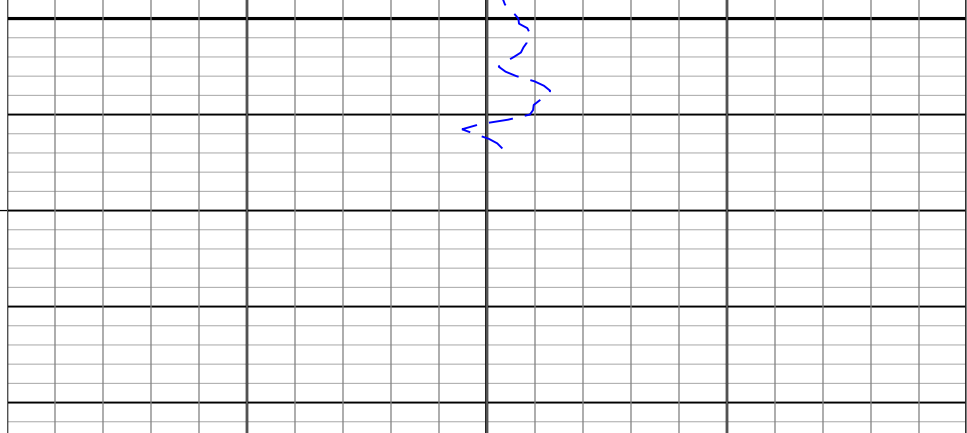
10300

10310

10320

10330

10340



Bit Size (BS_RM) RM		
4	in	14
Calibrated Gamma Ray (GR_TMG) TMG-A RM		
0	gAPI	150
Caliper (CALI) TBD-B RM		
4	in	14

Cable Tension (TENS)
0 lbf 5000

Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) TBN-B RM

TIME_1900 - Time Marked every 60.00 (s)

- └─ ICV_RM - Integrated Cement Volume every 100.00 (ft3)
- └─ ICV_RM - Integrated Cement Volume every 10.00 (ft3)
- └─ IHV_RM - Integrated Hole Volume every 100.00 (ft3)
- └─ IHV_RM - Integrated Hole Volume every 10.00 (ft3)

Description: ThruBit_Nuclear_RM	Format: Log (ThruBit_Nuclear_RM)	Index Scale: 5 in per 100 ft	Index Unit: ft	Index Type: Measured Depth	Creation Date: 02-Aug-2018 22:55:56
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Channel Processing Parameters

TB-TCOM: Parameters

Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.75	in
BSAL	Borehole Salinity	Borehole	0	ppm
BSCO	Borehole Salinity Correction Option	TBN-B	No	
CALI_SHIFT	CALI Supplementary Offset	TBD-B	0.42	in
CBLO	Casing Bottom (Logger)	WLSESSION	2530	ft
CQCO	Cement Quality Correction Option	TBN-B	No	
CSAL	Cement Salinity	TBN-B	0	ppm
CSCOR	Cement Salinity Correction Option	TBN-B	No	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.6	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
ECCO	Eccentricity Coorection Option	TBN-B	No	
FCD	Future Casing (Outer) Diameter	WLSESSION	4.5	in
FSAL	Formation Salinity	Borehole	0	ppm
FSCO	Formation Salinity Correction Option	TBN-B	No	
HSCOT	Hole Size Correction Option (None, Bit Size, Density Caliper, GCSE)	TBN-B	GCSE	
TBN_WPRE	Well Pressure for Horizontal Section	TBN-B	0	psi
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MWCO	Mud Weight Correction Option	TBN-B	No	
PTCO	Pressure Temperature Correction Option	TBN-B	No	
SOCN	Standoff Distance	TBN-B	0.125	in

TBN	Standoff Distance	TBN-B	SCHL	in
SOCO	Standoff Correction Option	TBN-B	No	
TBN_ALGO	TBN Porosity Algorithm Option	TBN-B	Schmid_McKeon	

Tool Control Parameters	
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Company:	LARAMIE ENERGY LLC	Schlumberger
Well:	CC 0697 03 17	
Field:	Grand Valley	
County:	Garfield	
State:	Colorado	
HID		

