

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.				
Permanent Datum:					Ground Level		Elev.:		8438.00 f		
Log Measured From:					Kelly Bushing		30.00 ft		above Perm.Datum		
Drilling Measured From:					Kelly Bushing						
API Serial No. 05-045-23815			Section: 3		Township: 6S		Range: 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-CEA 2377		Ft Morgan				
					L. Awalt						
					Matt Kohl						

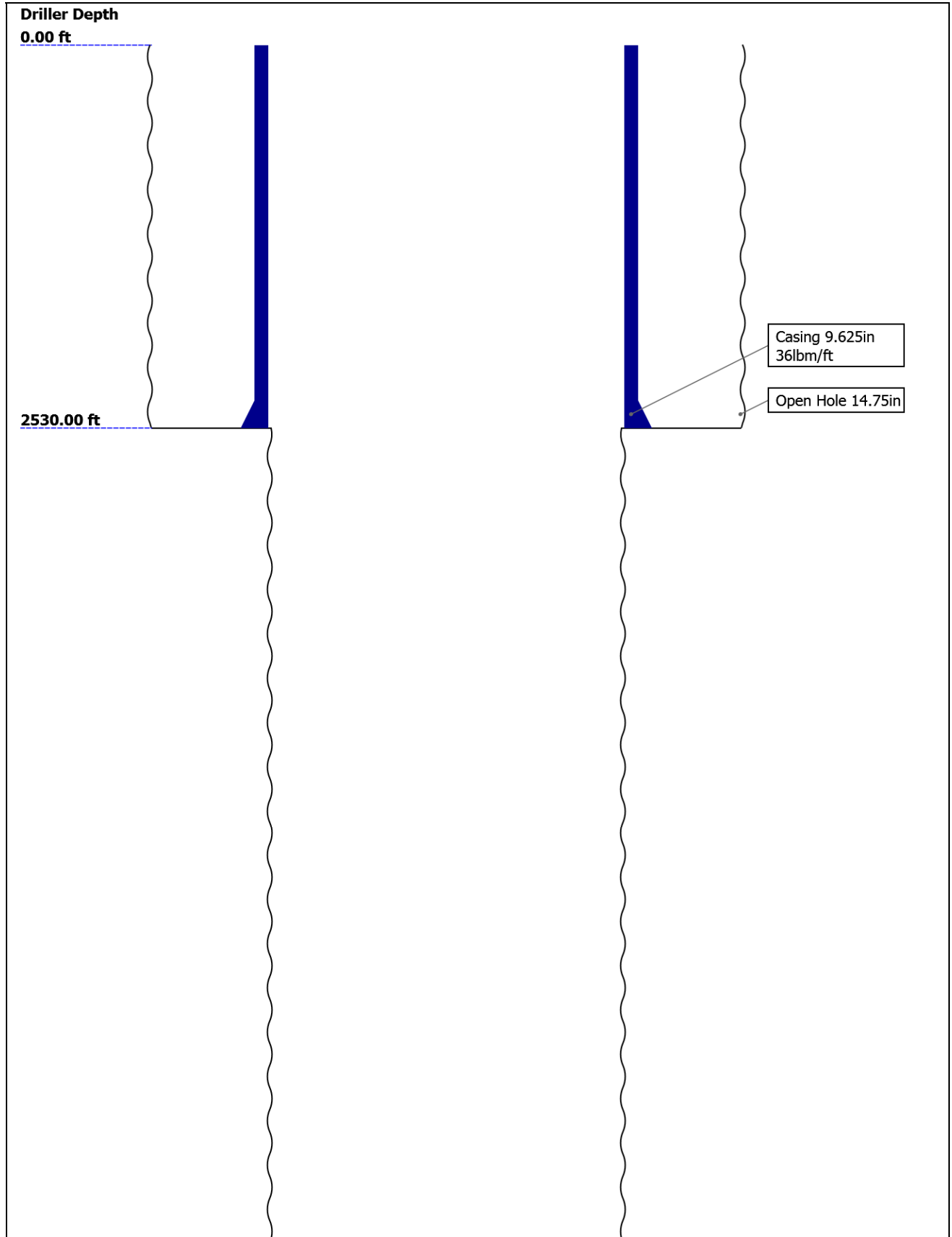
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Well Sketch





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

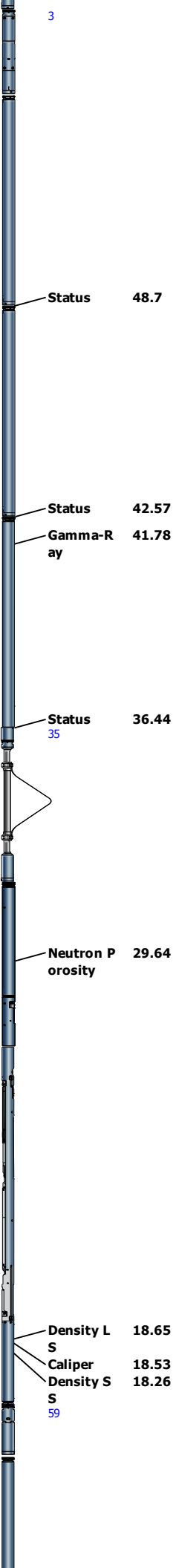
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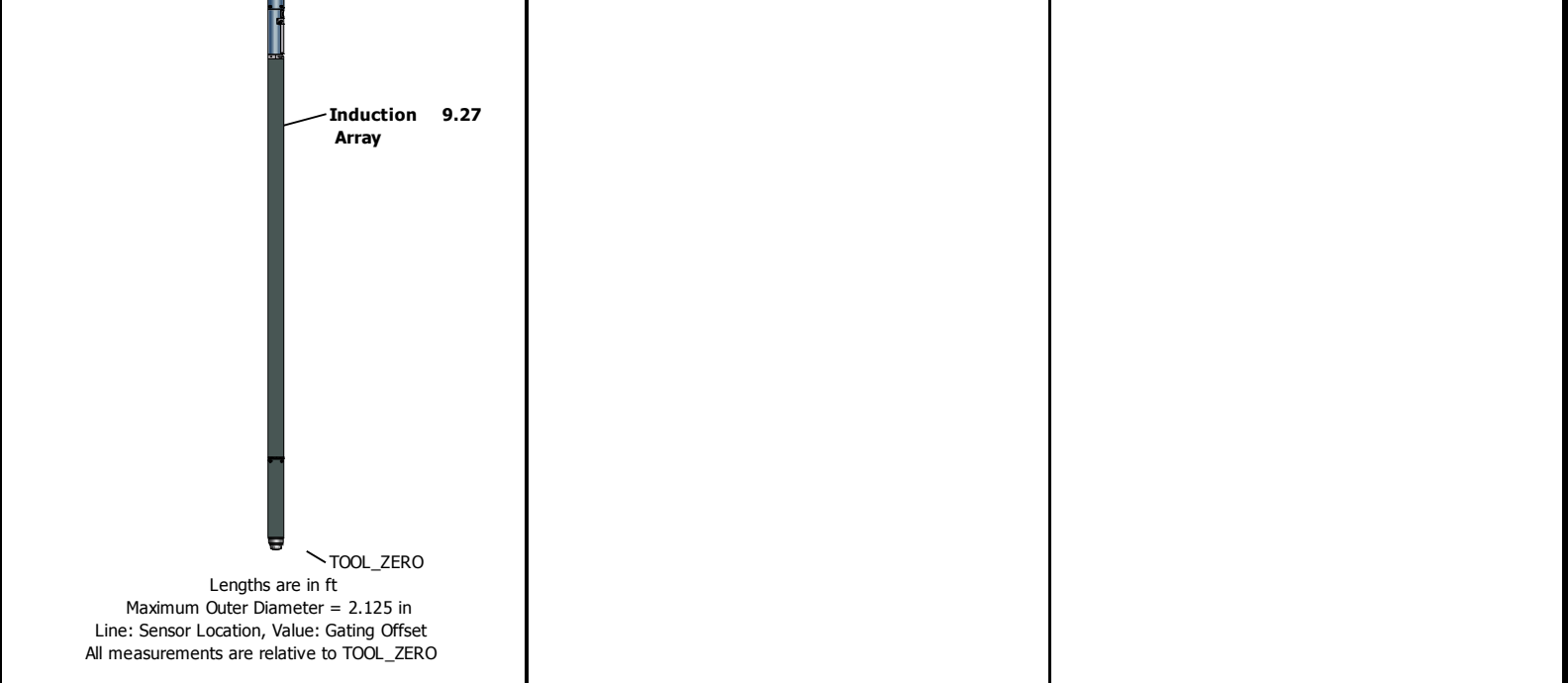
TBN-B:44 31.94
TBN-B:44
NNLS-EWA:
5975

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

KAH-TB 16.7

TBIT-A:25 15.28
TBIT-A:25





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			

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	1794.71	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS	2439.79	ft3

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
TB-TCOM	Log[1]:Up	Up	4389.77 ft	10343.57 ft	02-Aug-2018 1:23:17 AM	02-Aug-2018 6:30:07 AM	ON	0.00 ft	Yes

All depths are referenced to toolstring zero

Log

Company:LARAMIE ENERGY LLC Well:CC 0697 03 17

TB-TCOM: Log[1]:Up:S031

Description: ThruBit_TBLA_RESISTIVITY_RM Format: Log (ThruBit_Caliper) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 02-Aug-2018 22:55:52

| IHV_RM - Integrated Hole Volume every 10.00 (ft3)

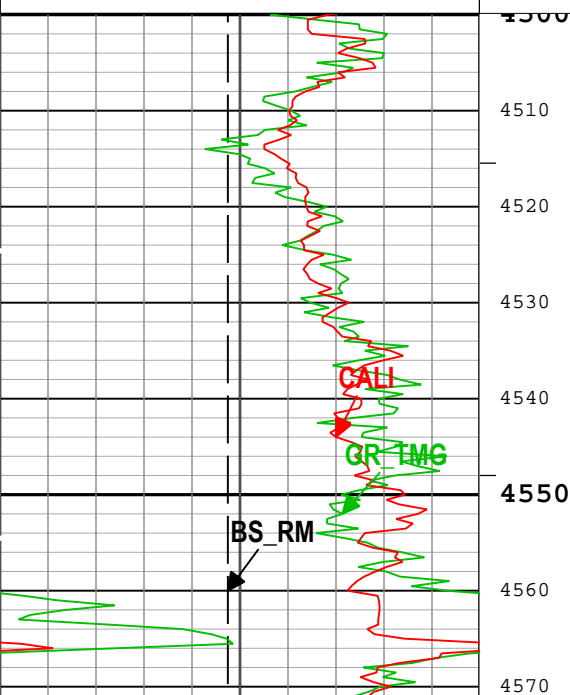
| IHV_RM - Integrated Hole Volume every 100.00 (ft3)

| ICV_RM - Integrated Cement Volume every 10.00 (ft3)

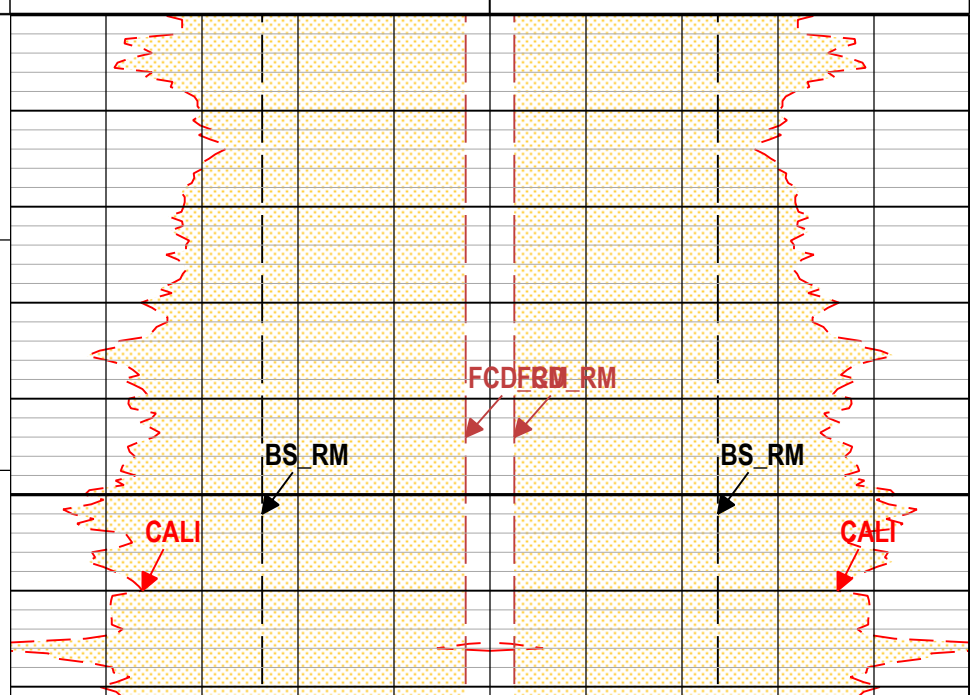
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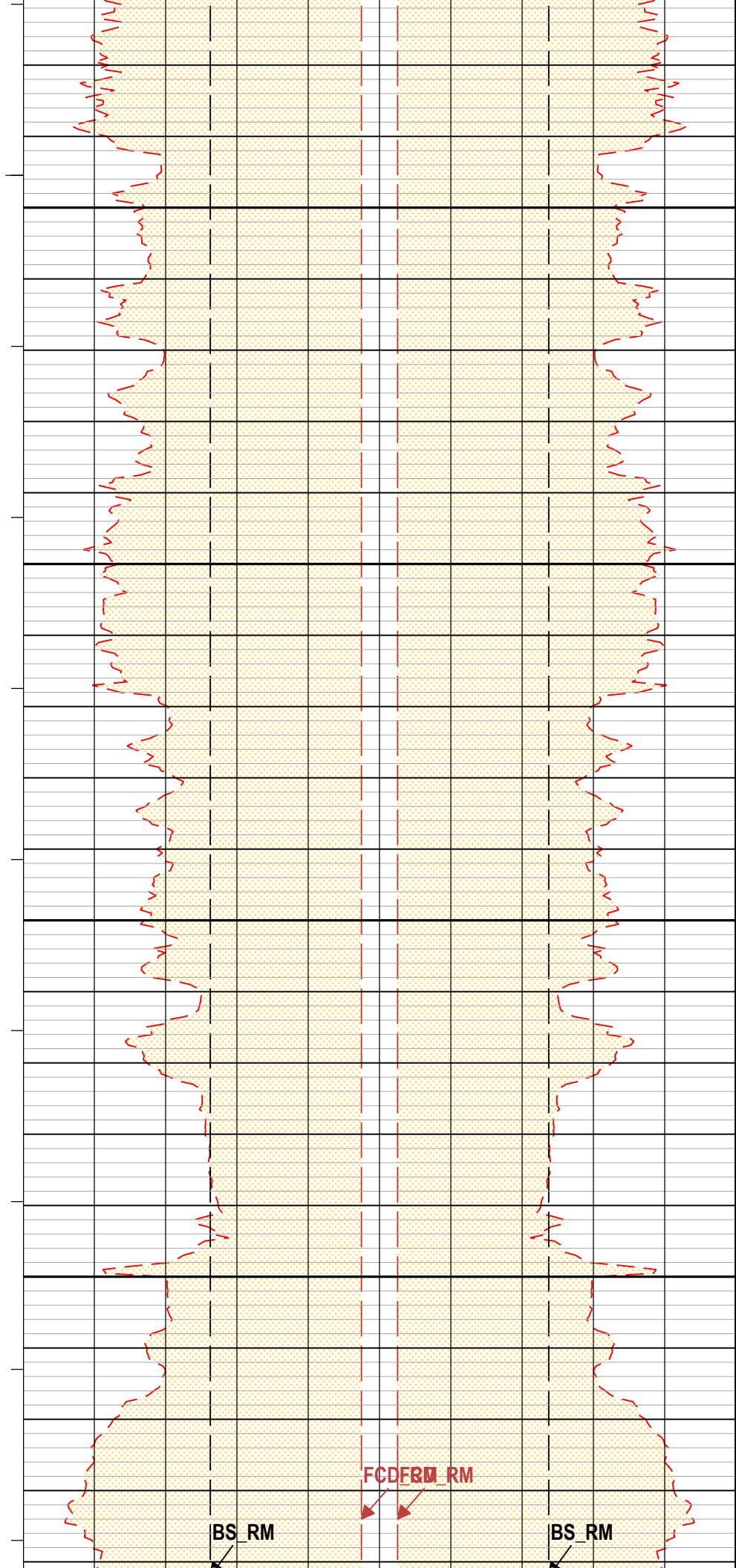
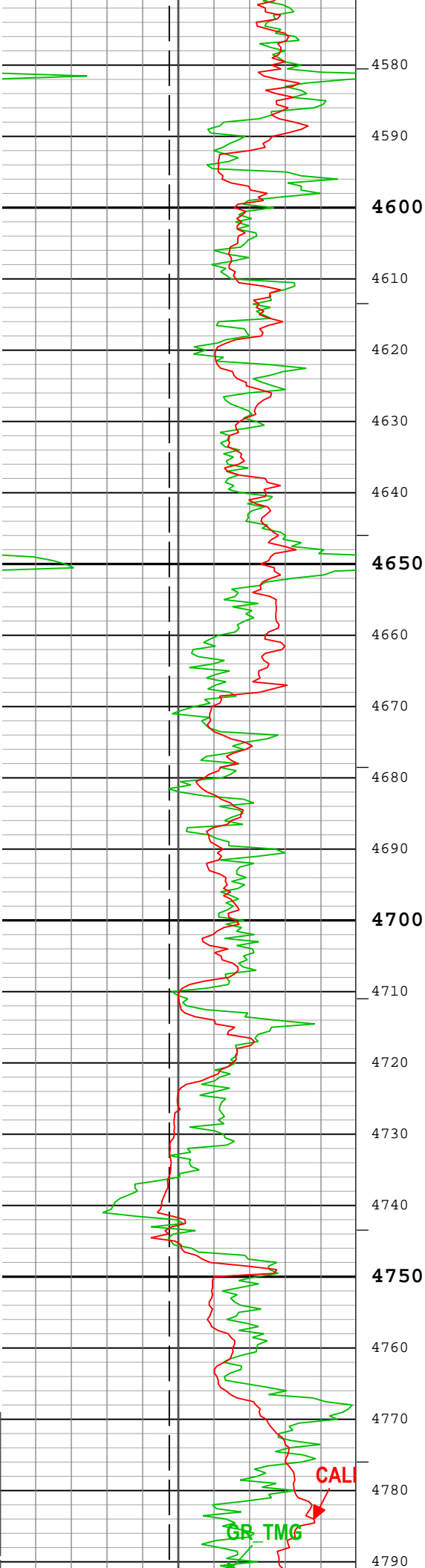
TIME_1900 - Time Marked every 60.00 (s)

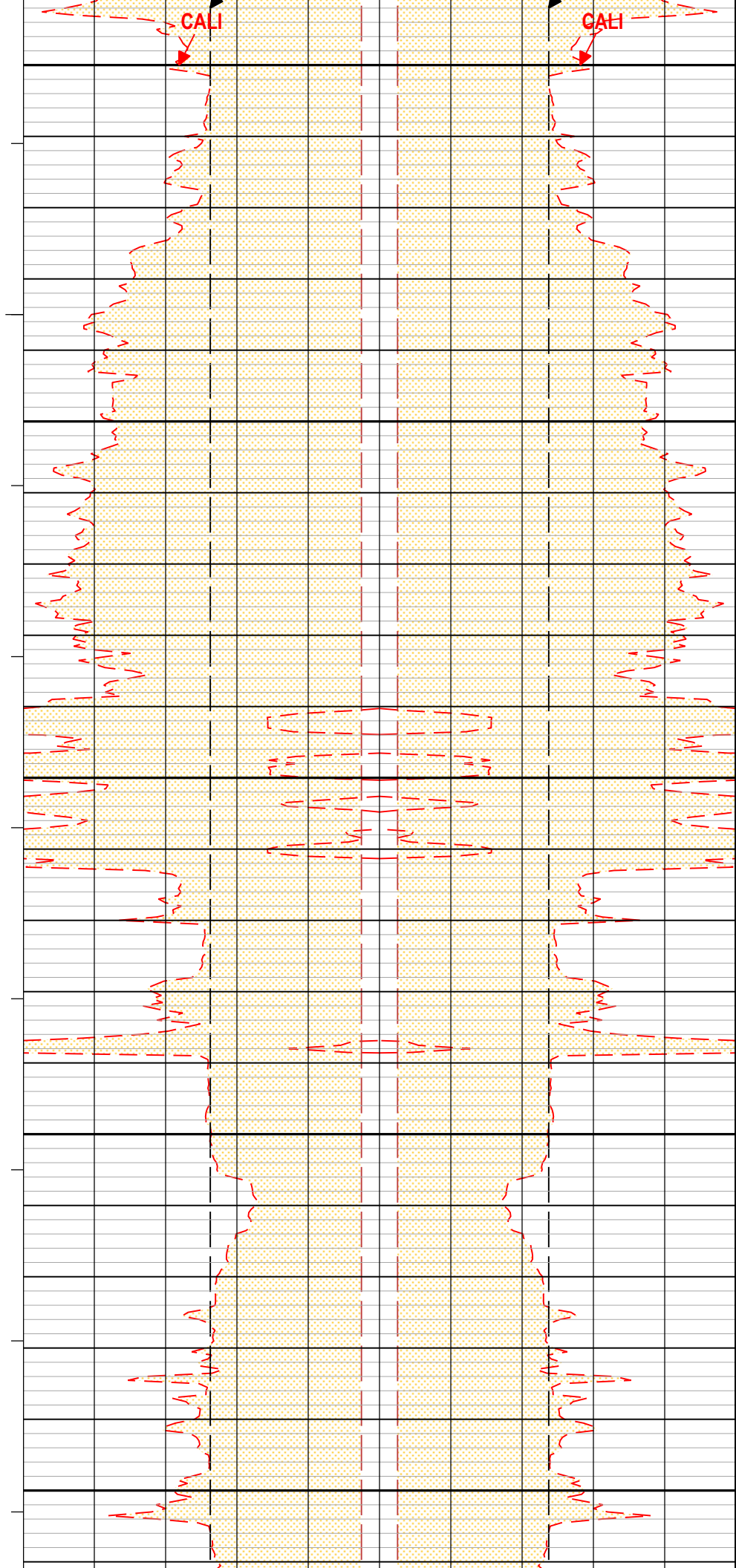
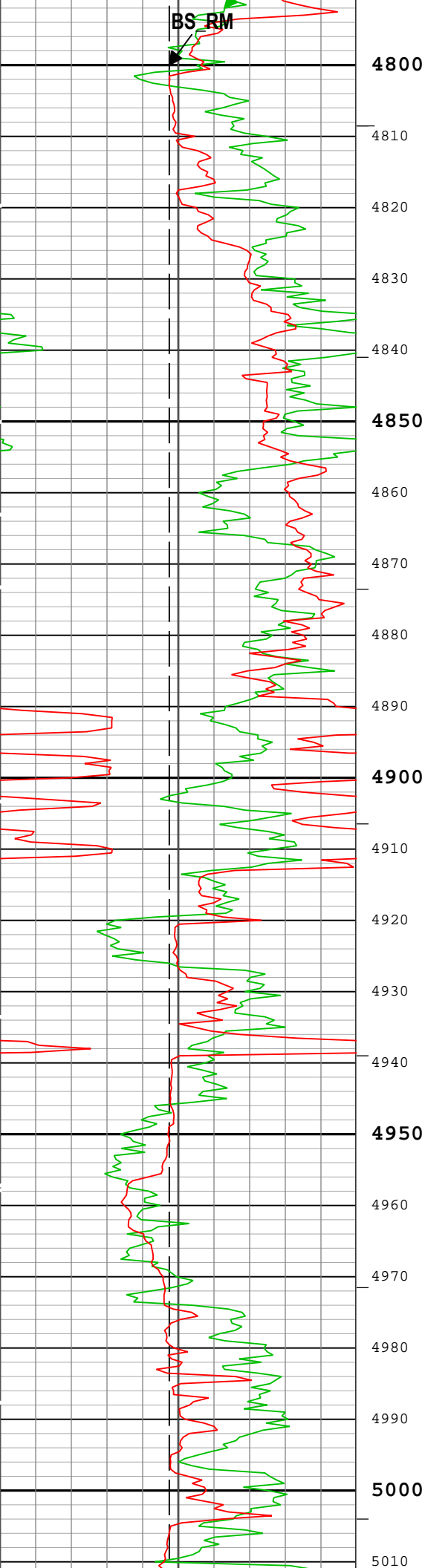
Bit Size (BS_RM) RM		
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Calibrated Gamma Ray (GR_TMG) TMG-A RM		
0	gAPI	150
Caliper (CALI) TBD-B RM		
4	in	14

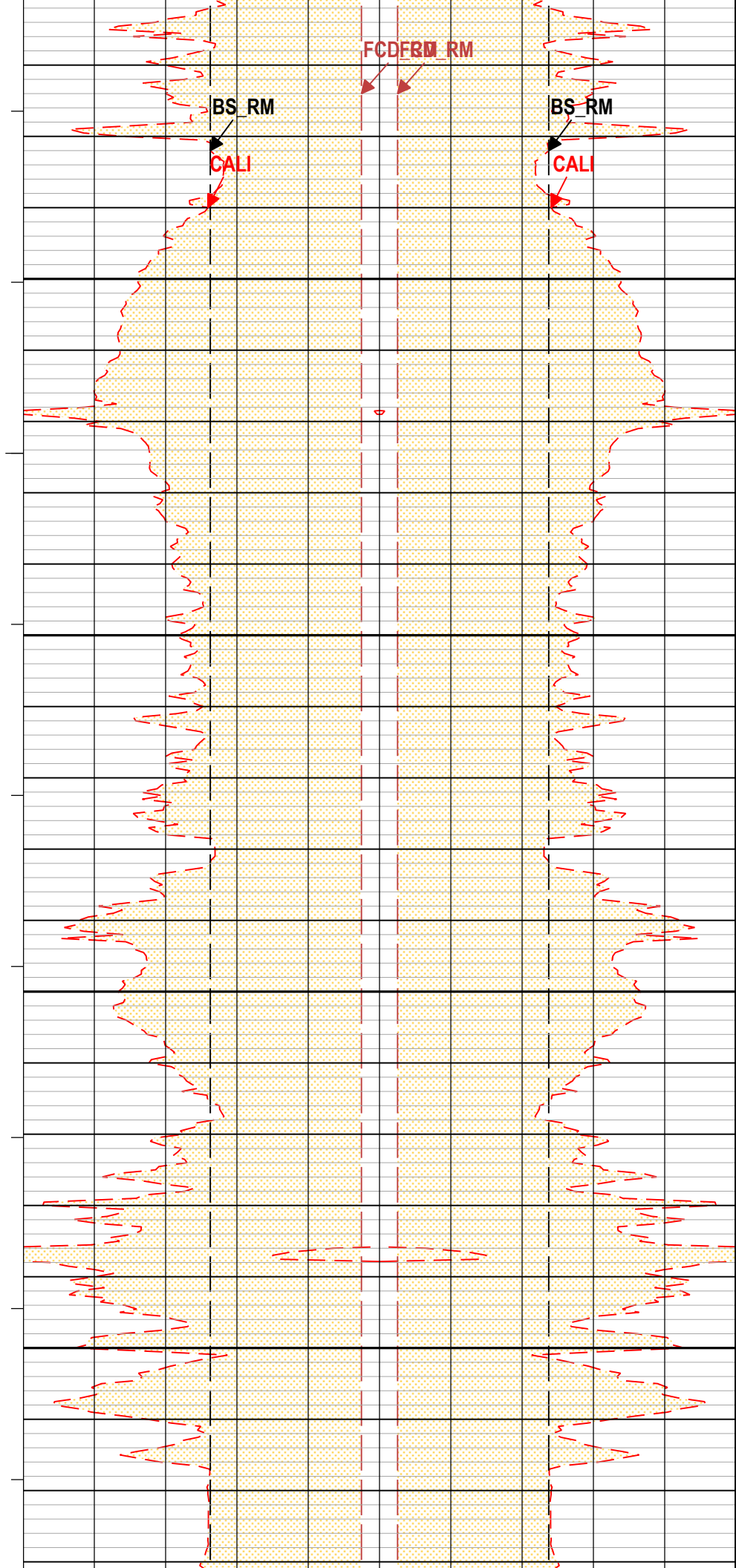
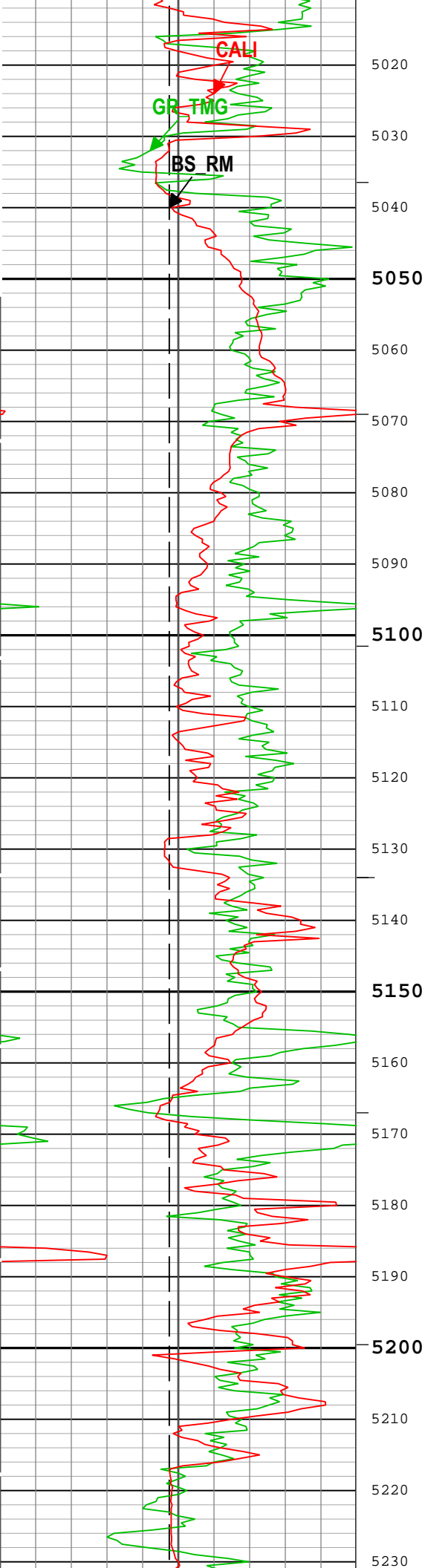


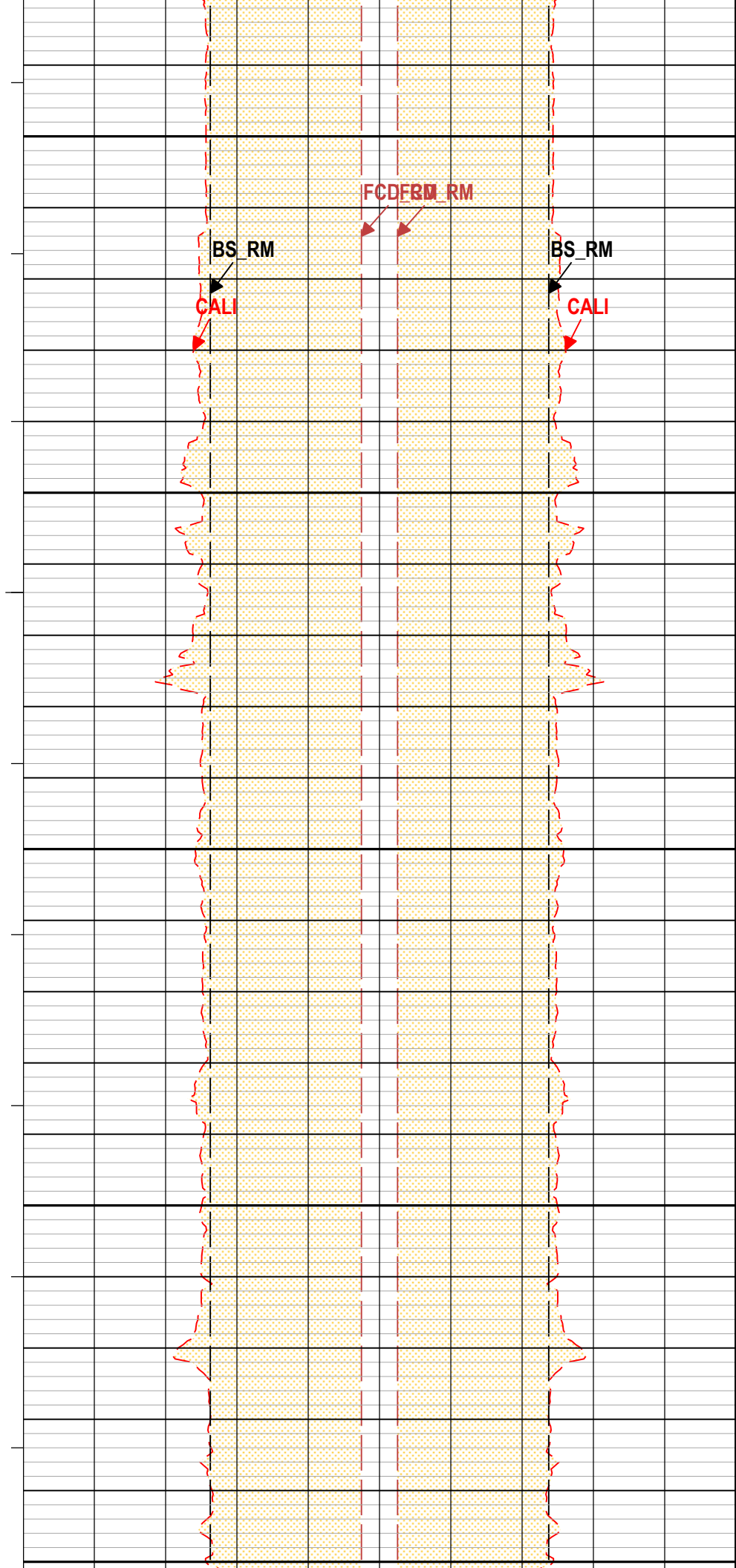
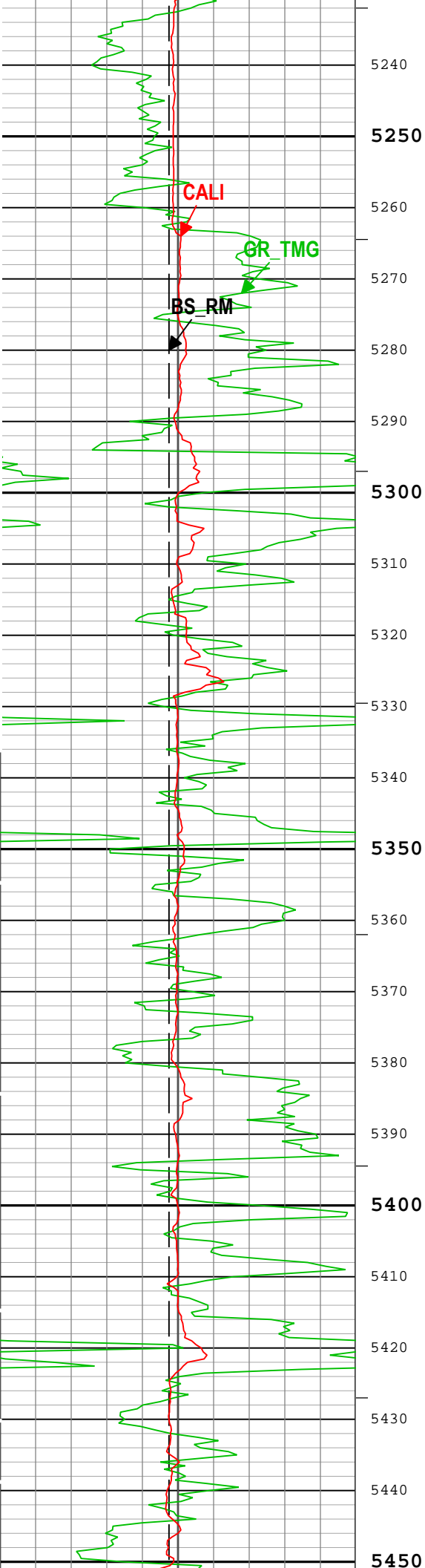
CEMENT			CEMENT		
Caliper (CALI) TBD-B RM			Caliper (CALI) TBD-B RM		
14	in	4	4	in	14
Bit Size (BS_RM) RM			Bit Size (BS_RM) RM		
14	in	4	4	in	14
Future Casing Diameter (FCD_RM) RM			Future Casing Diameter (FCD_RM) RM		
14	in	4	4	in	14

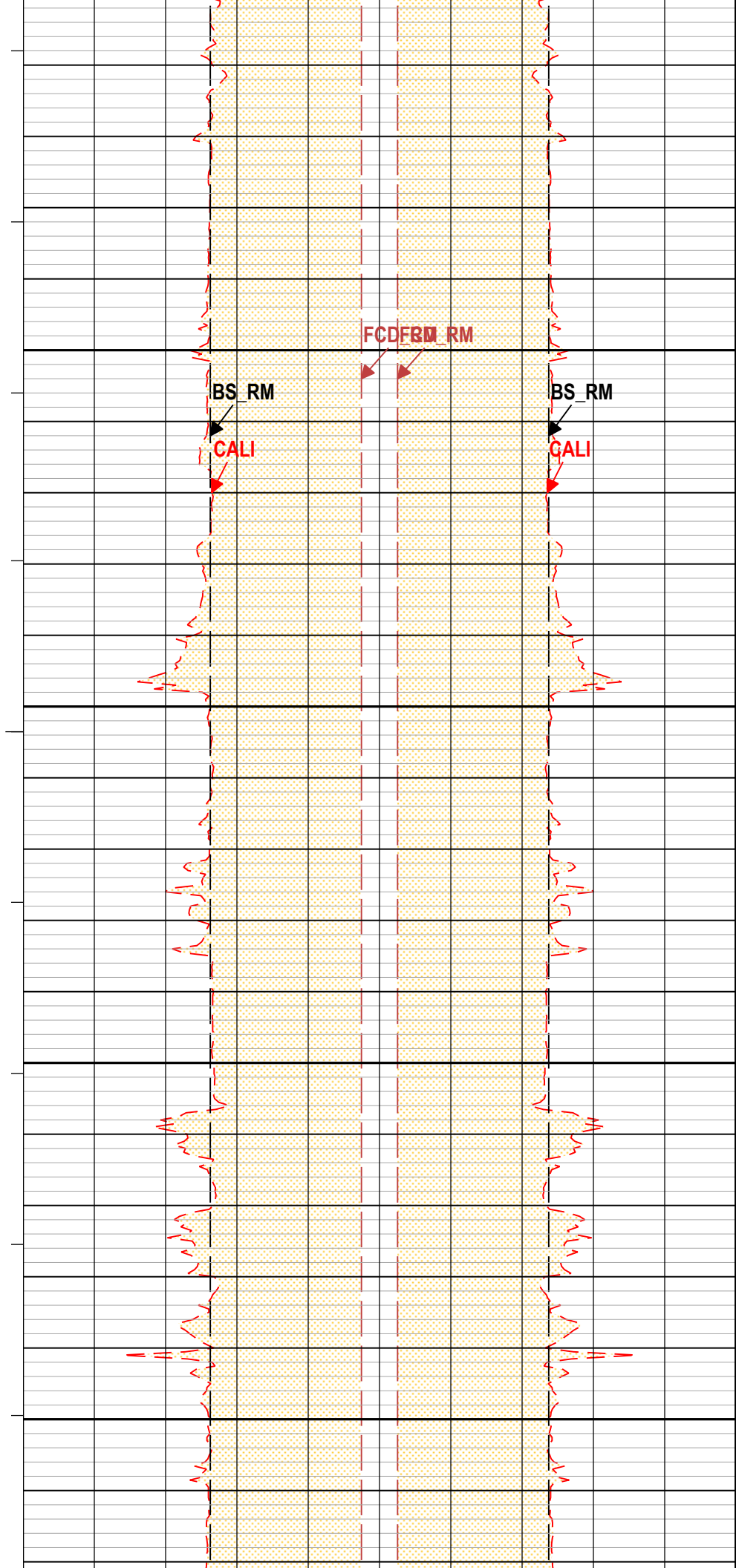
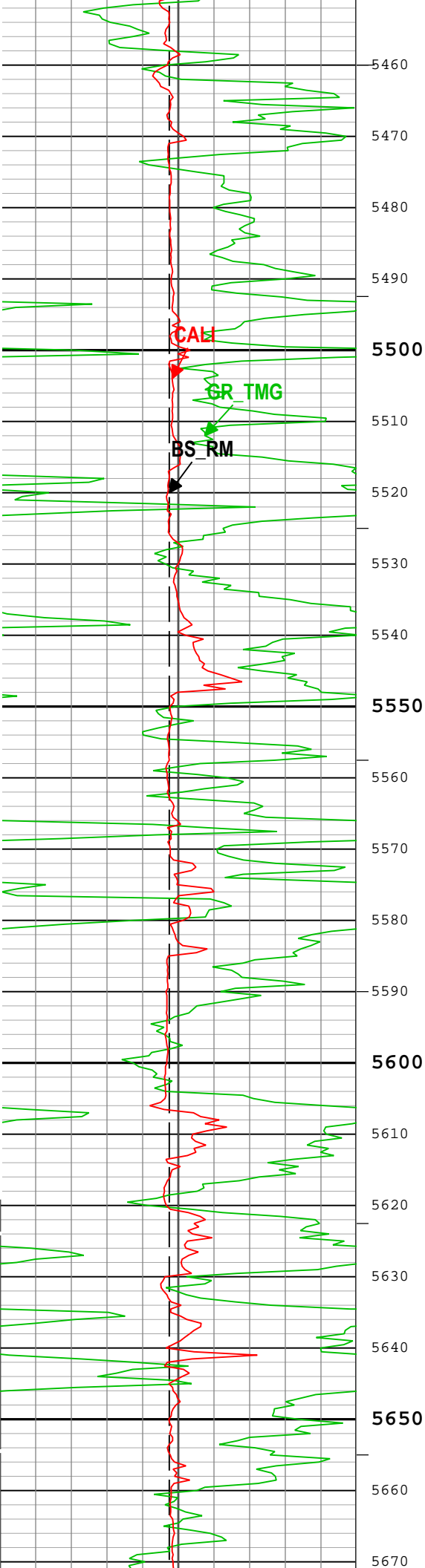


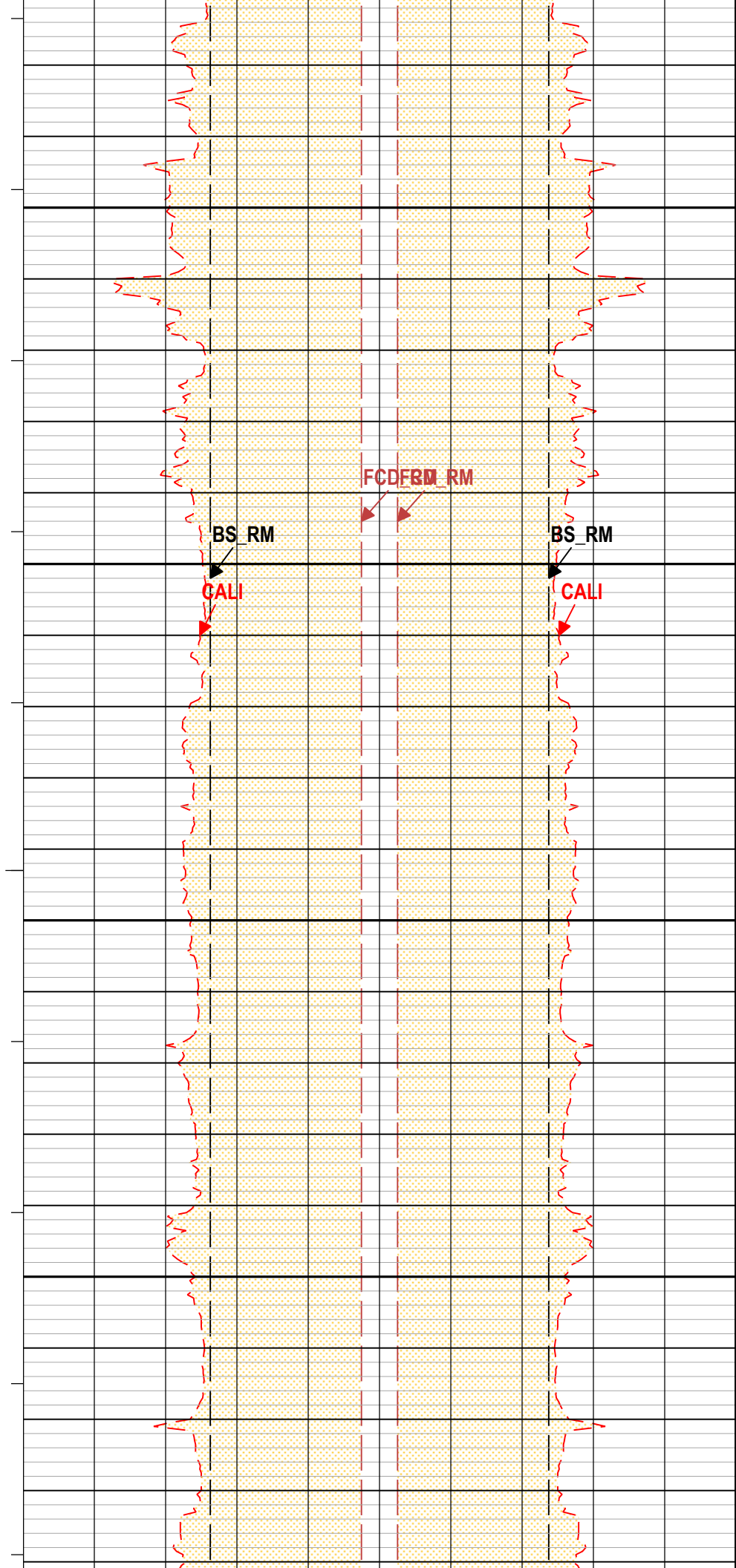
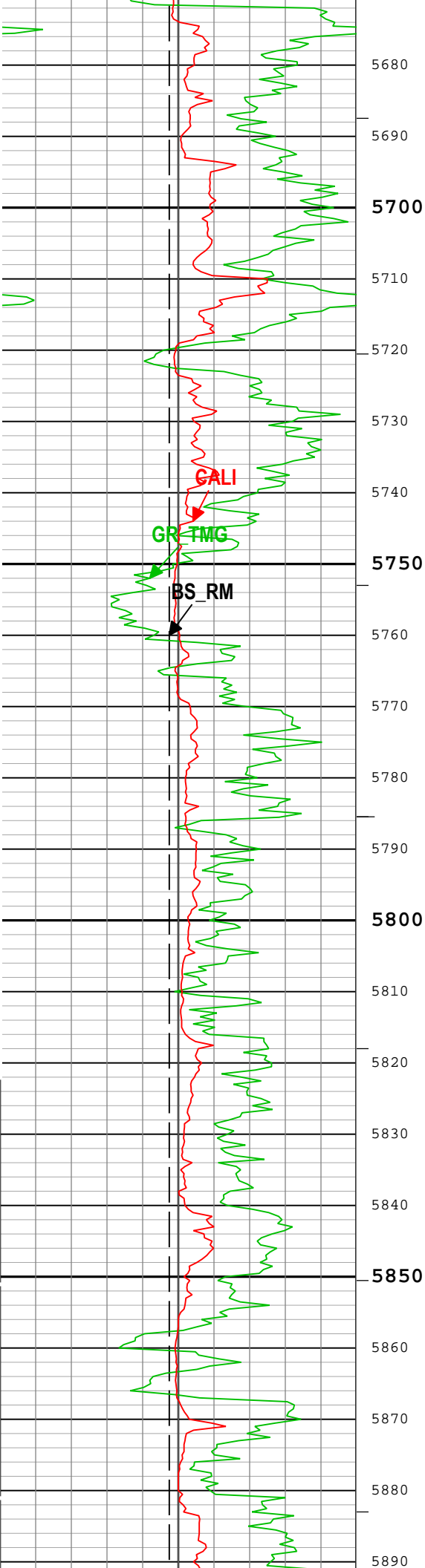


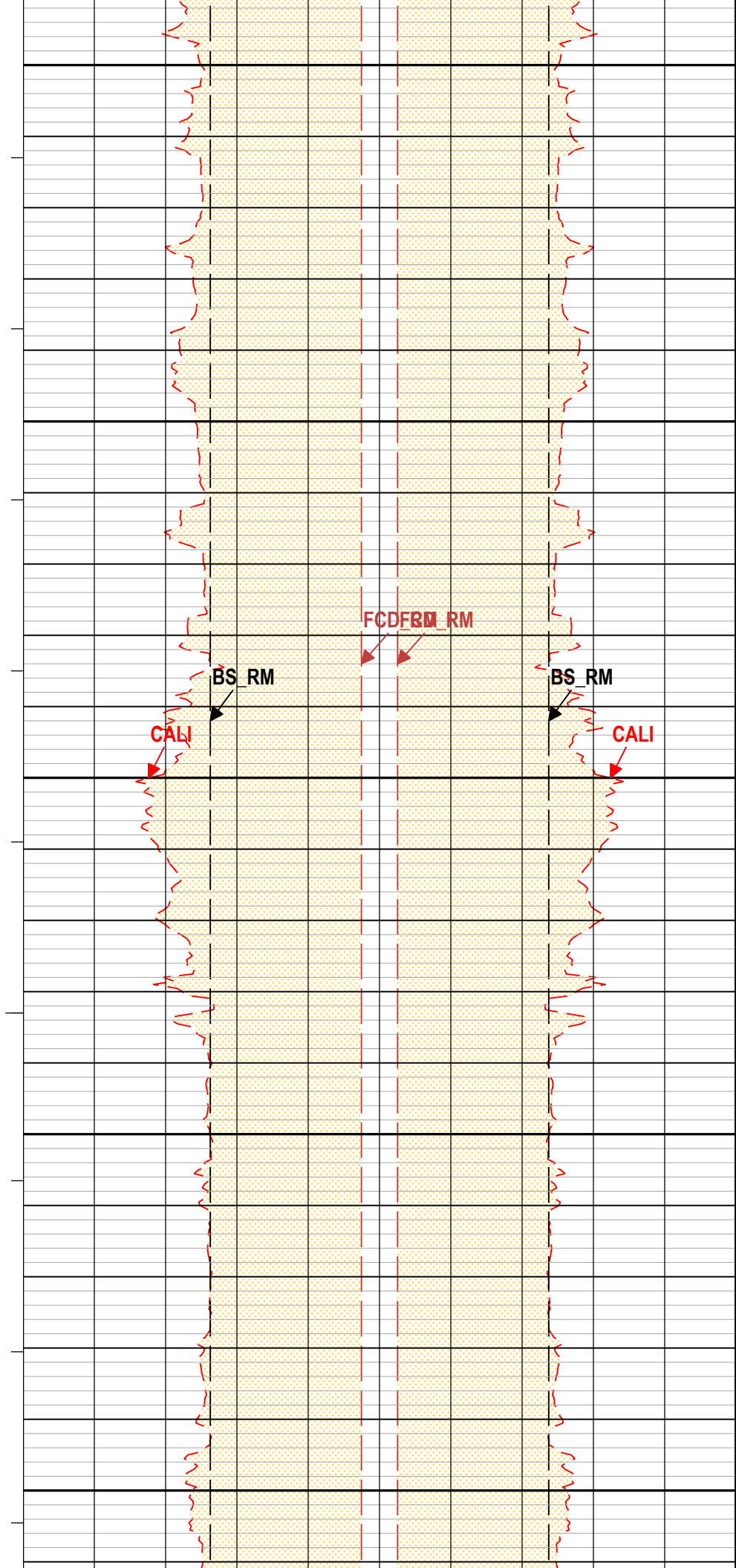
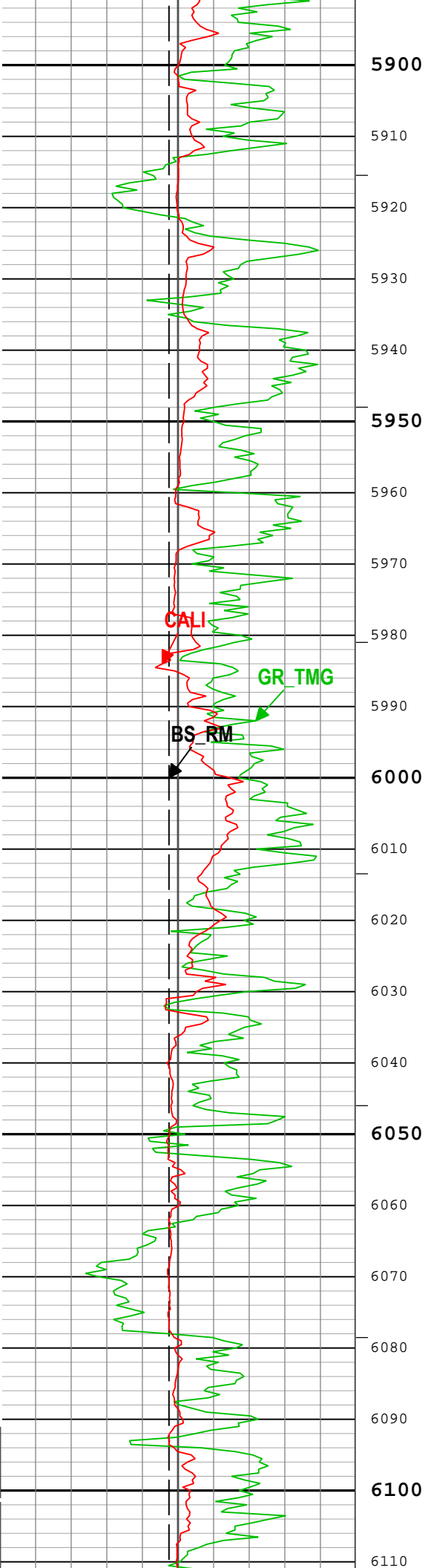


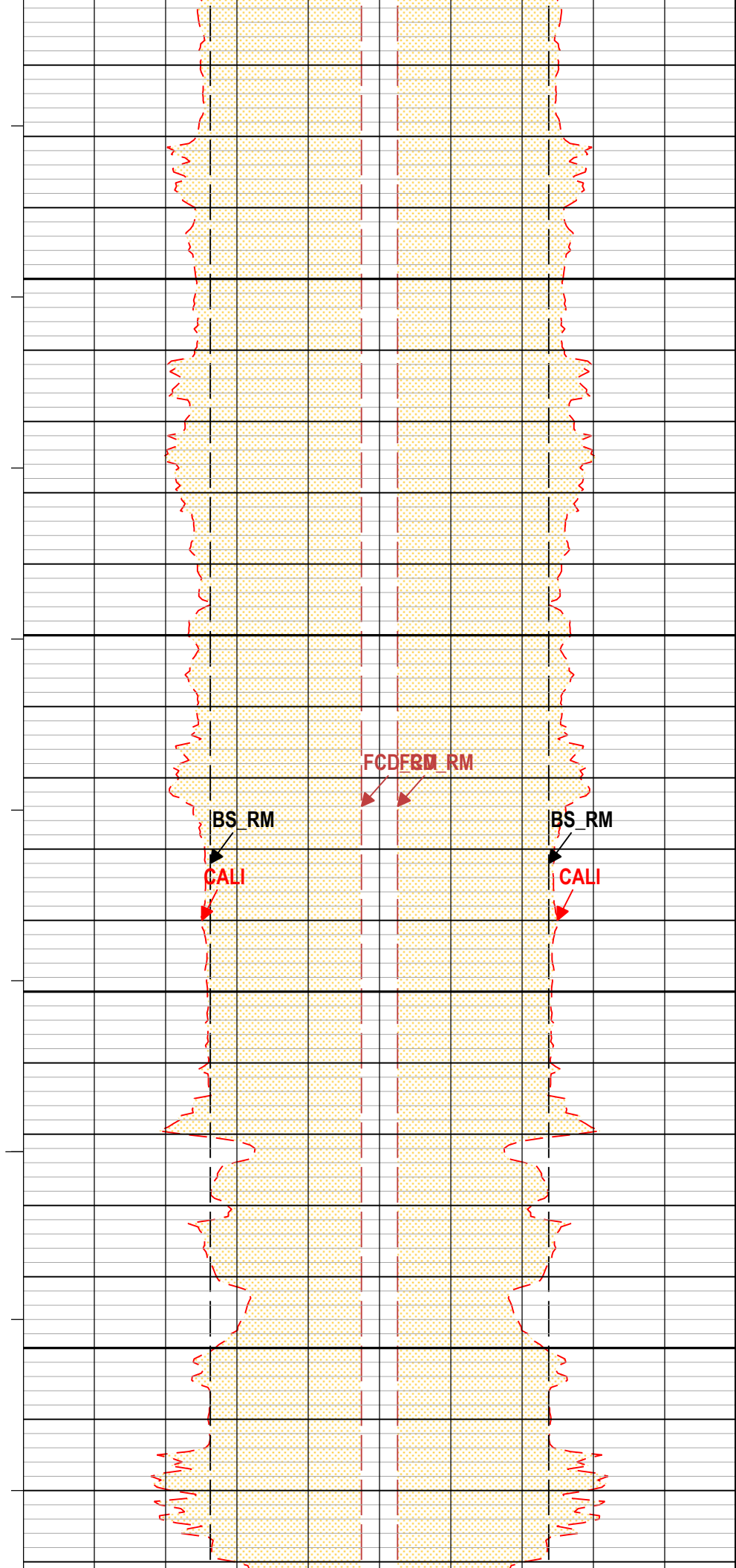
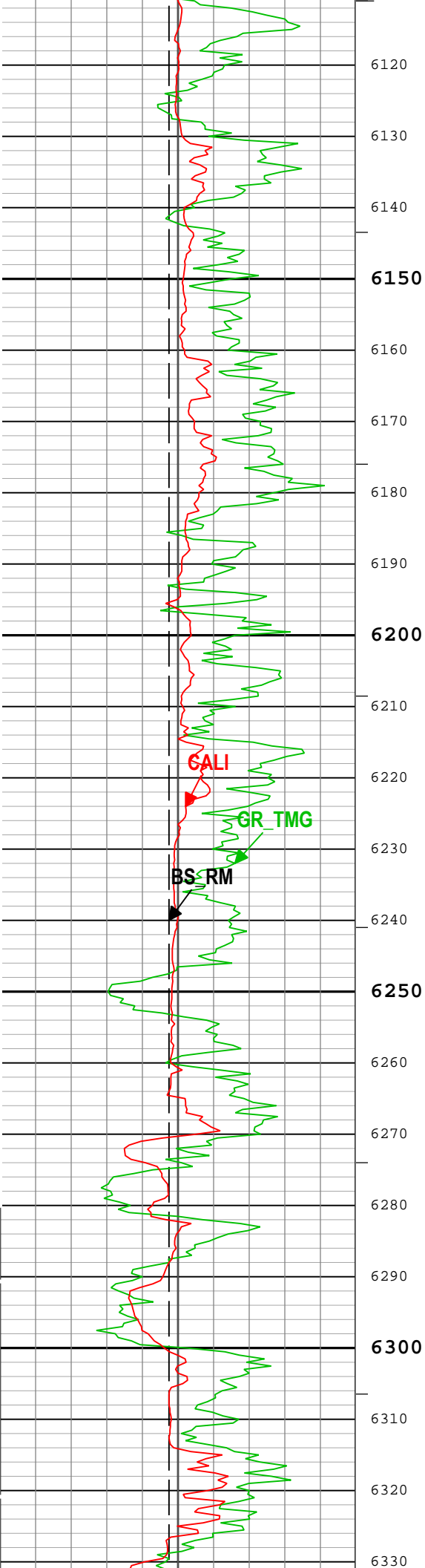


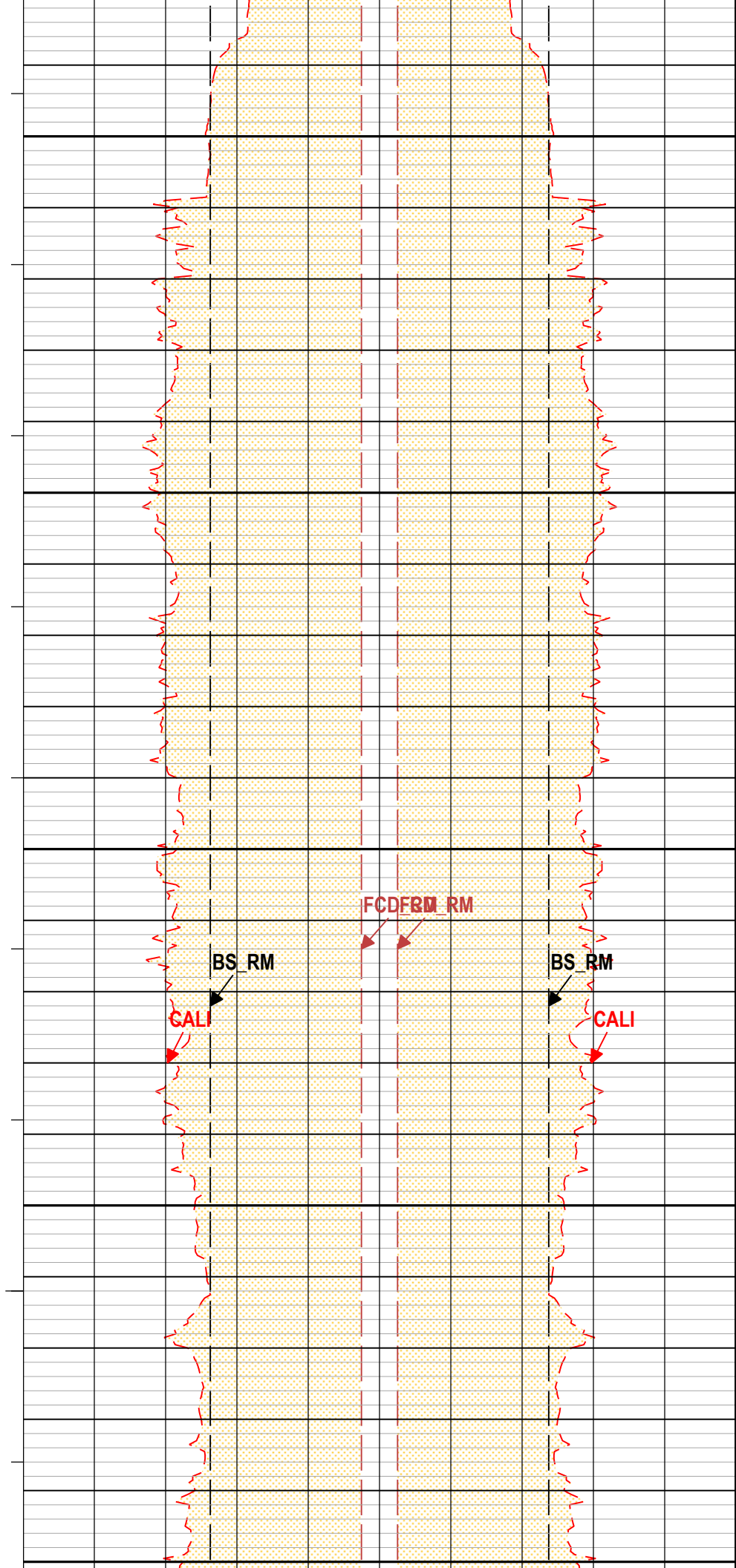
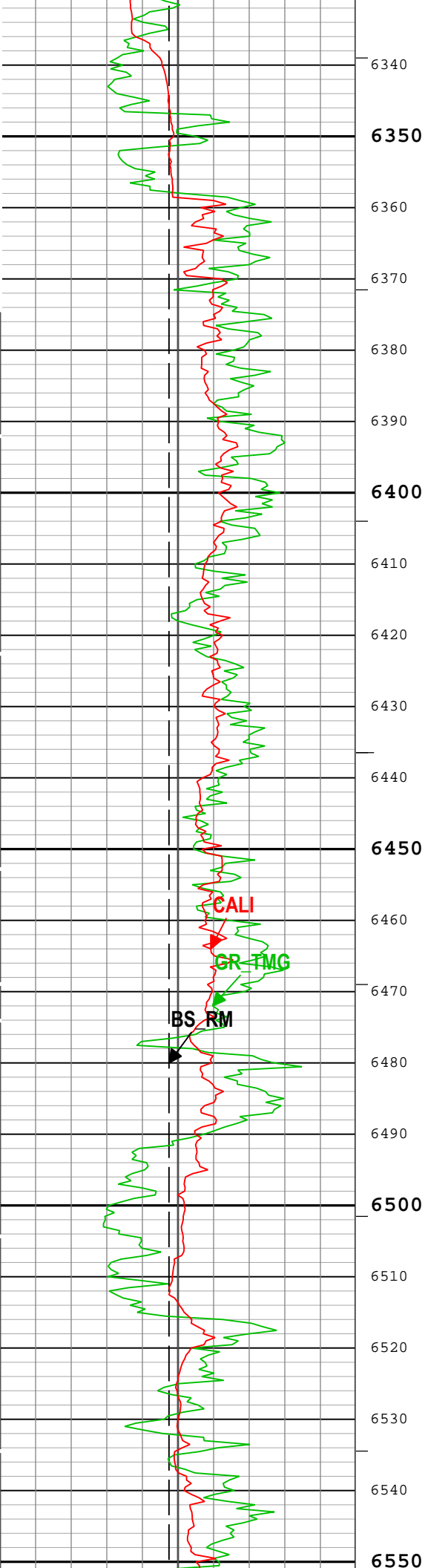


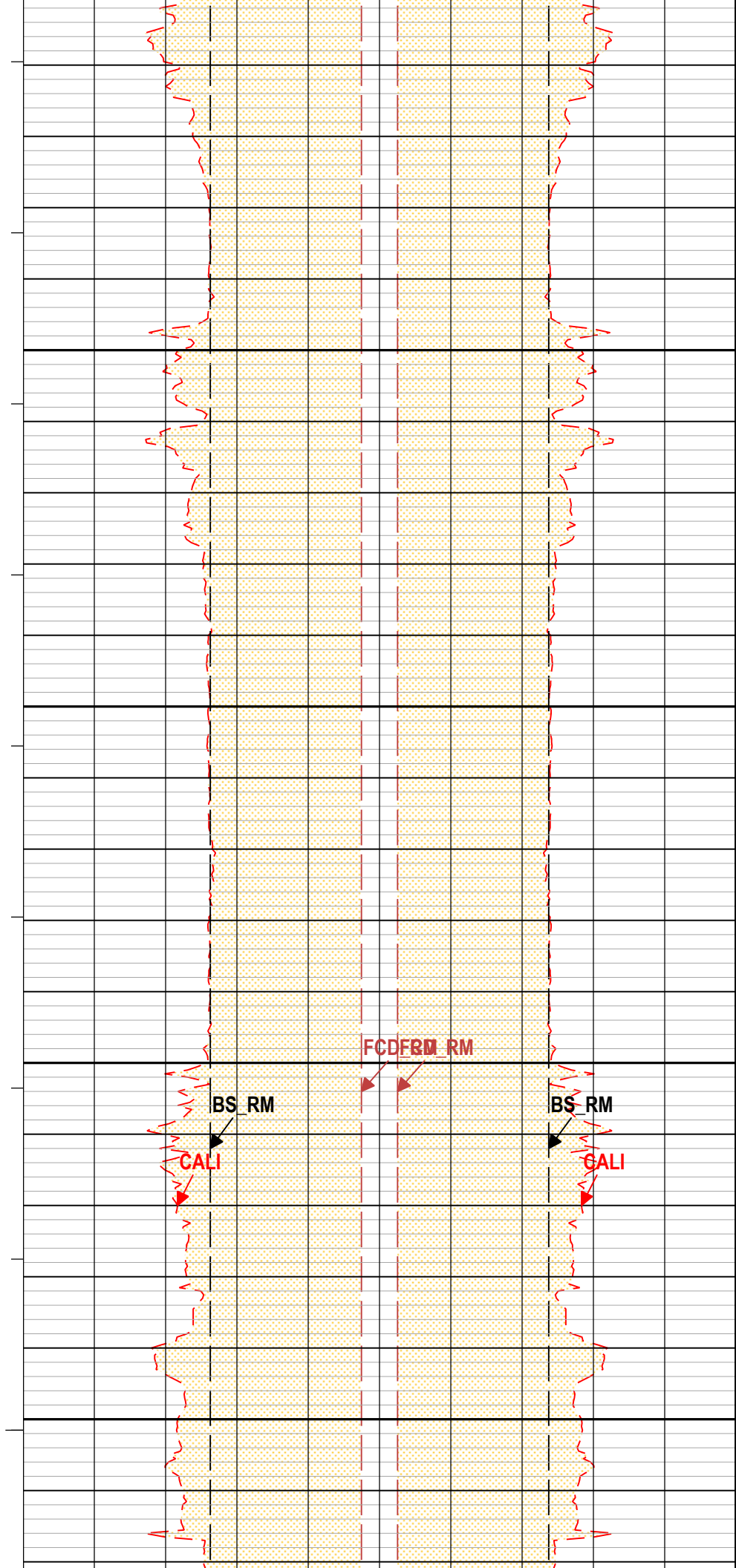
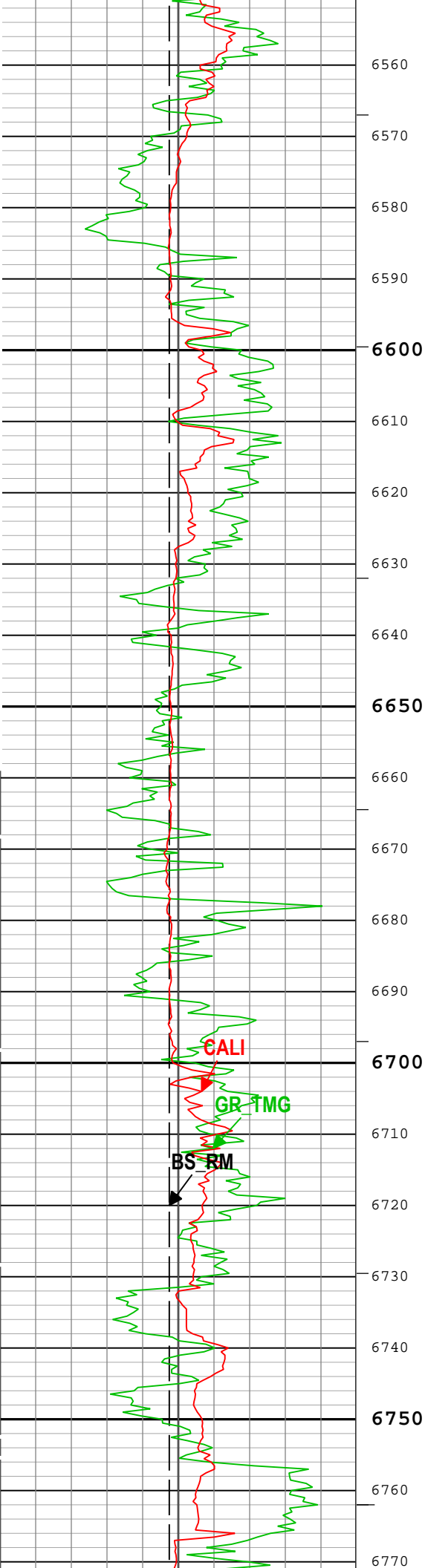


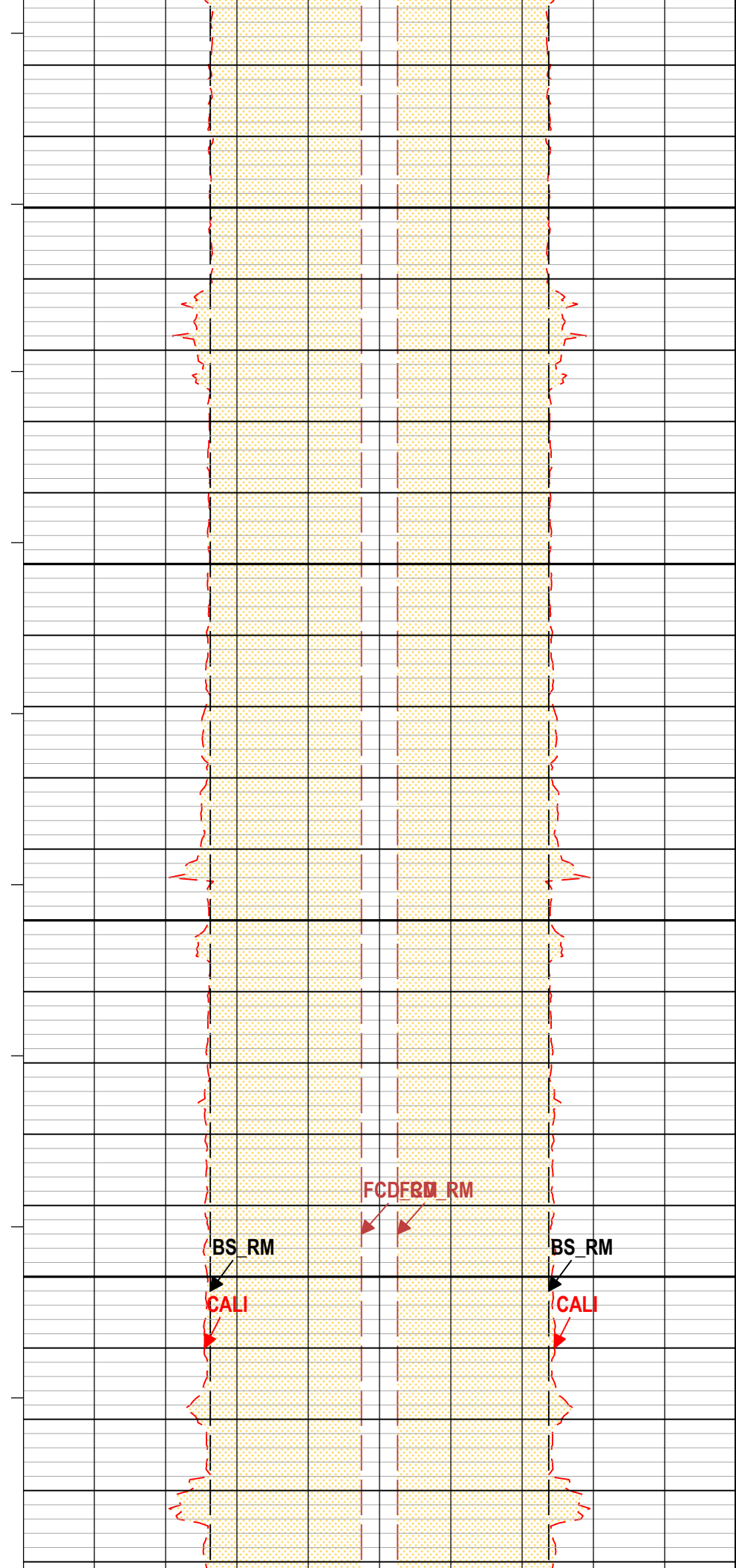
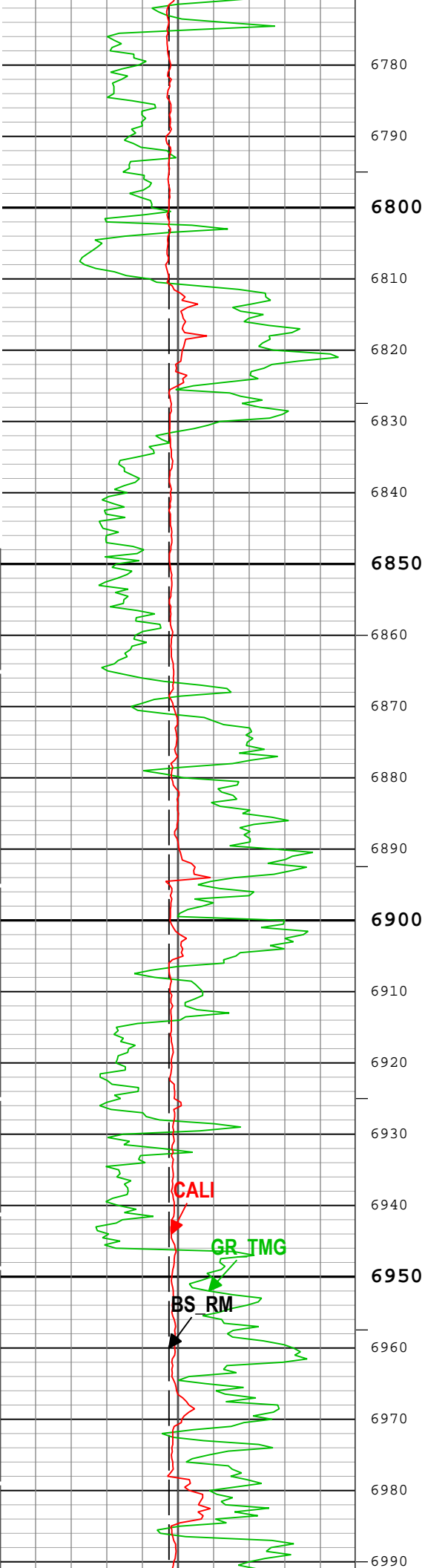


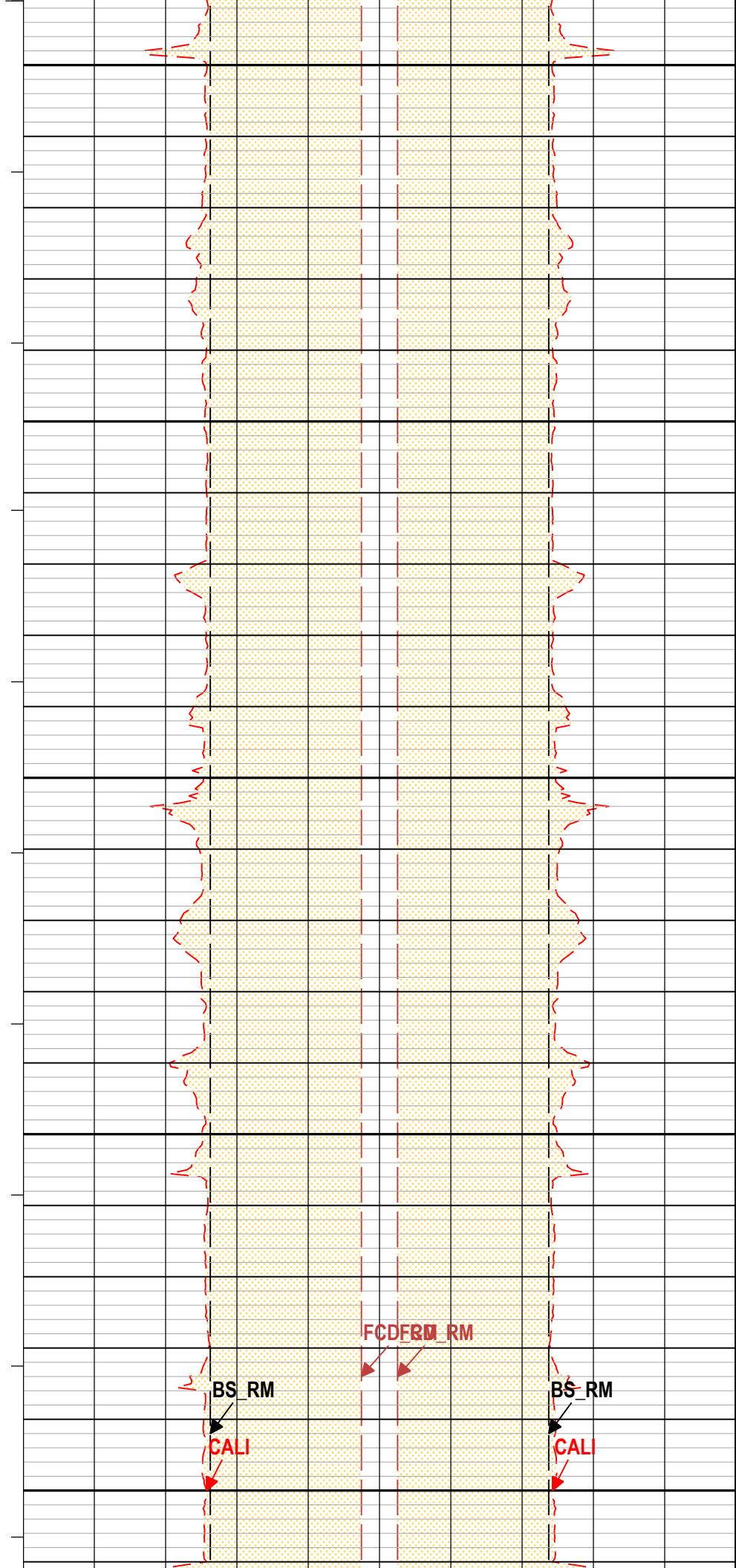
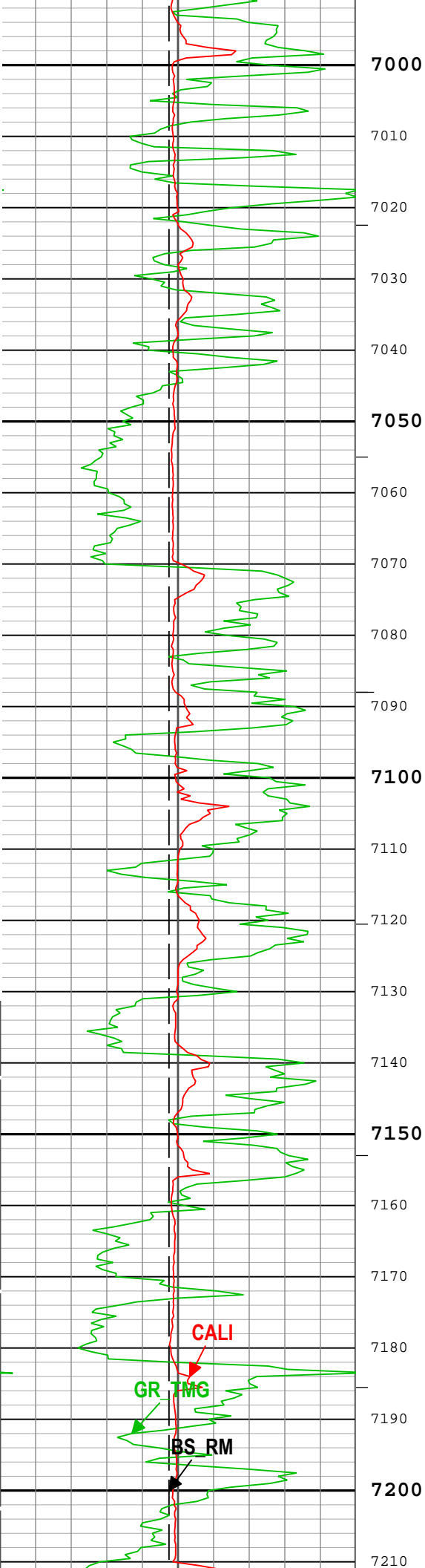


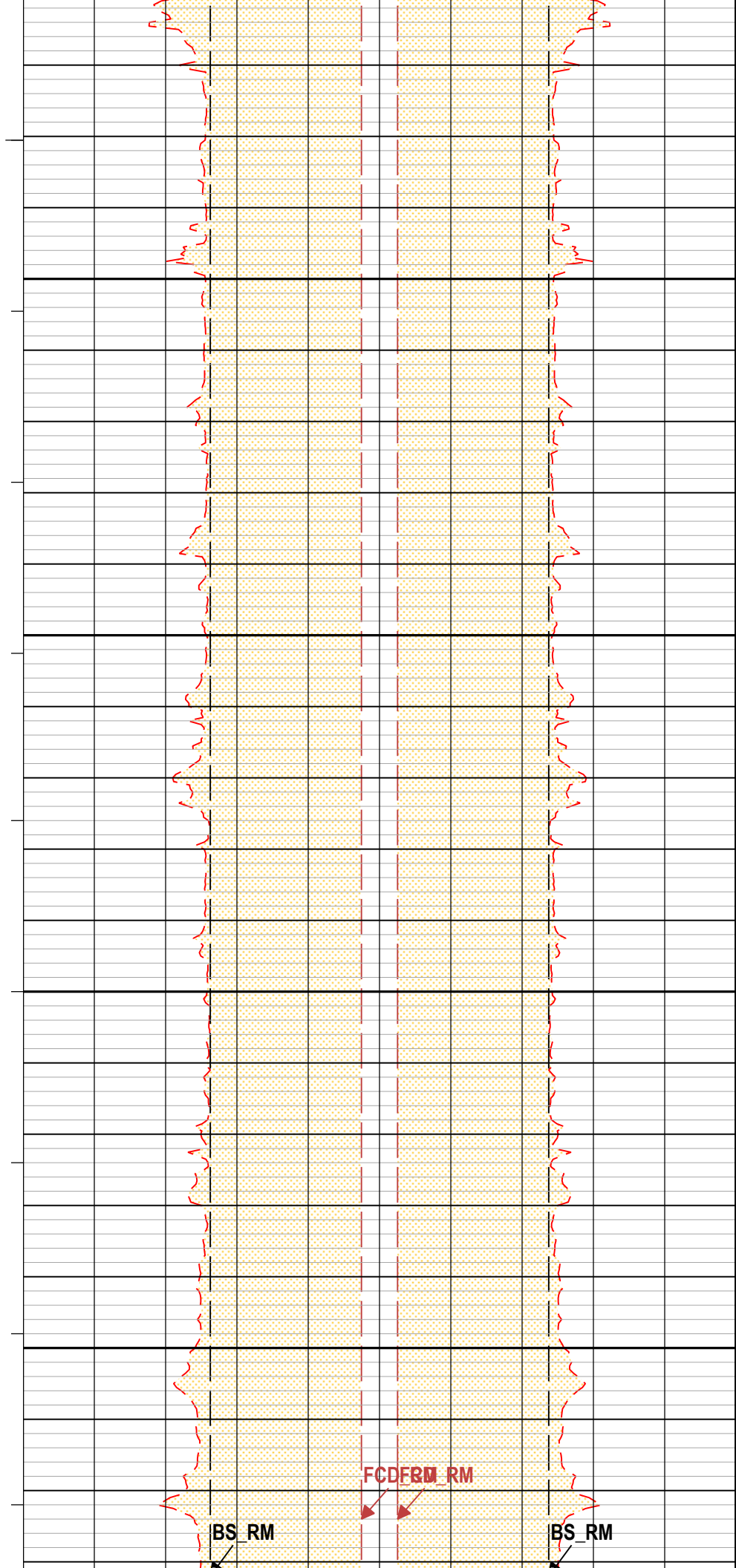
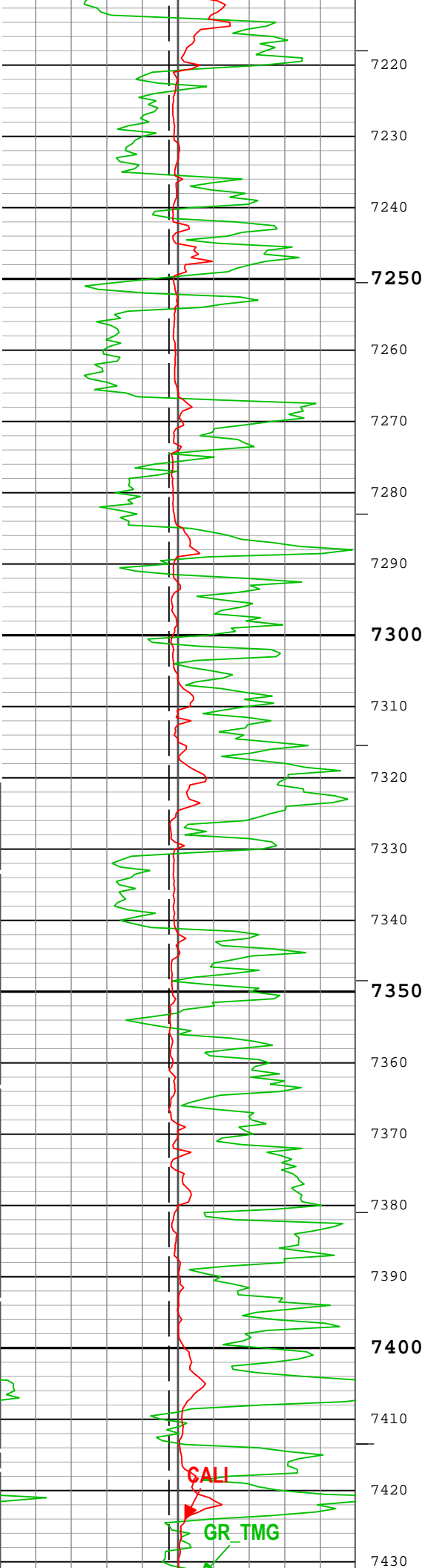


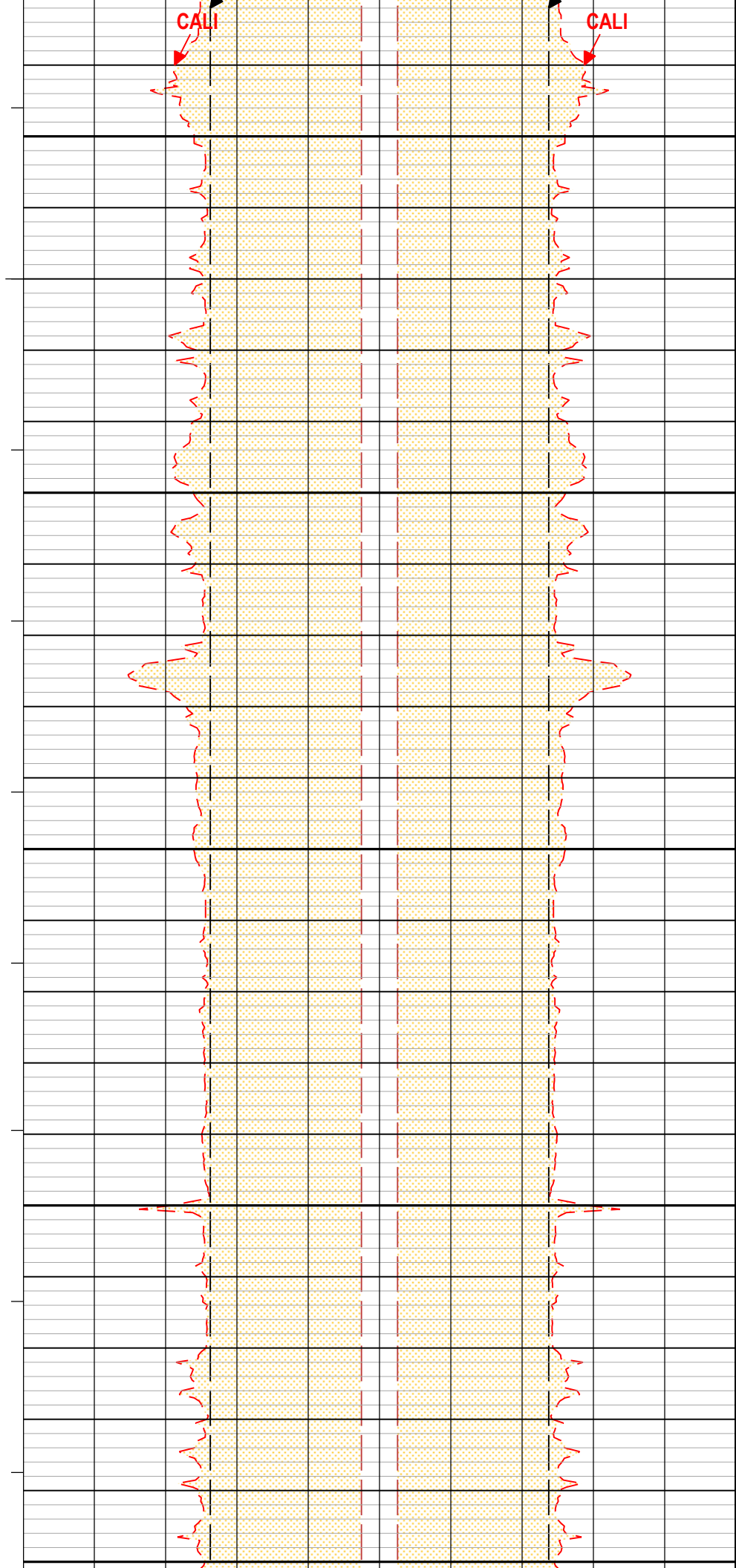
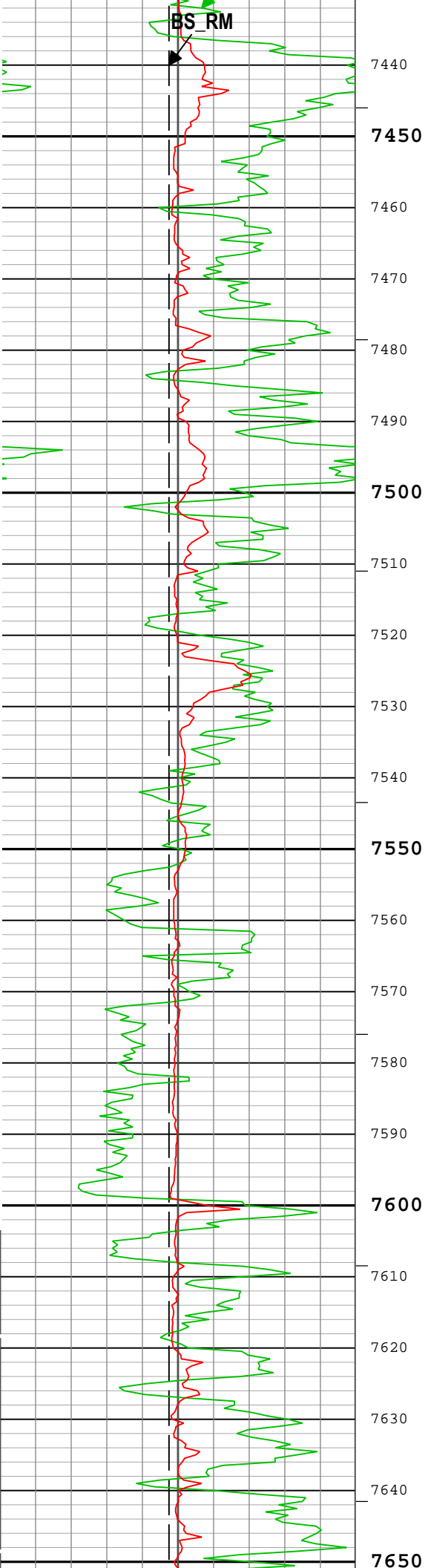


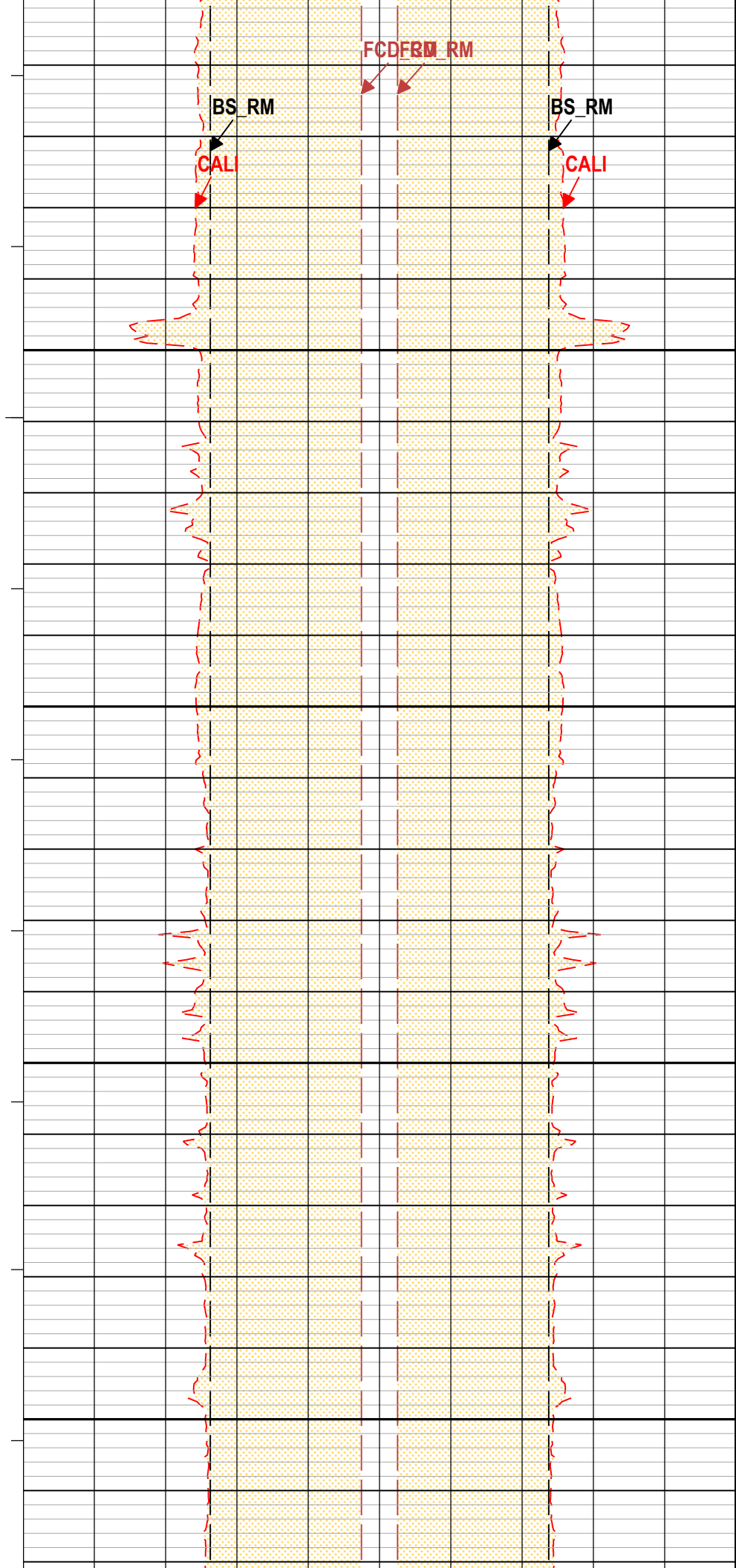
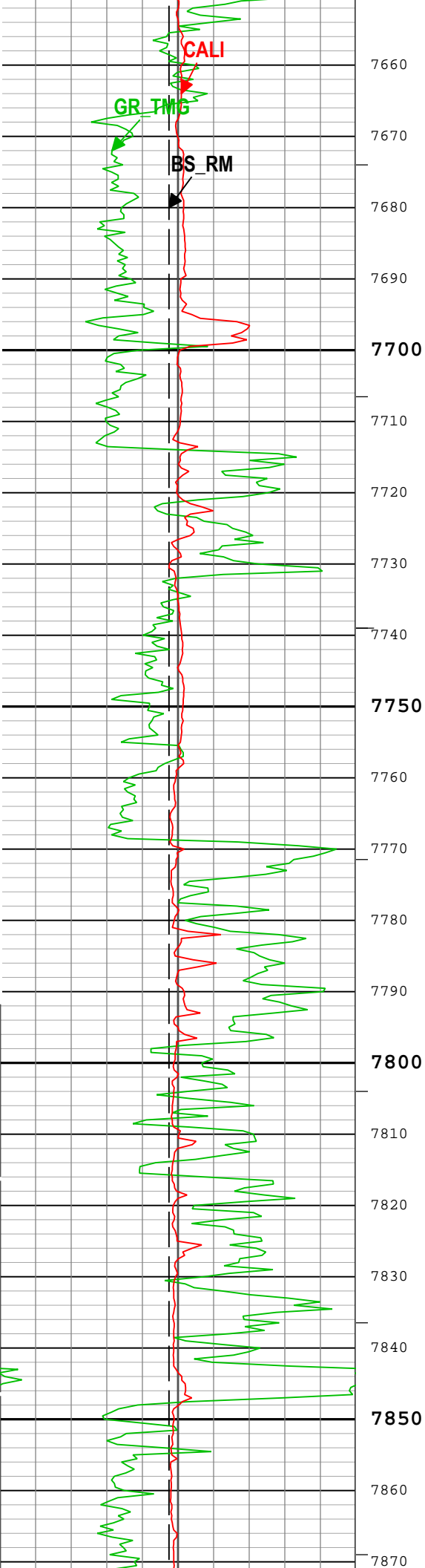


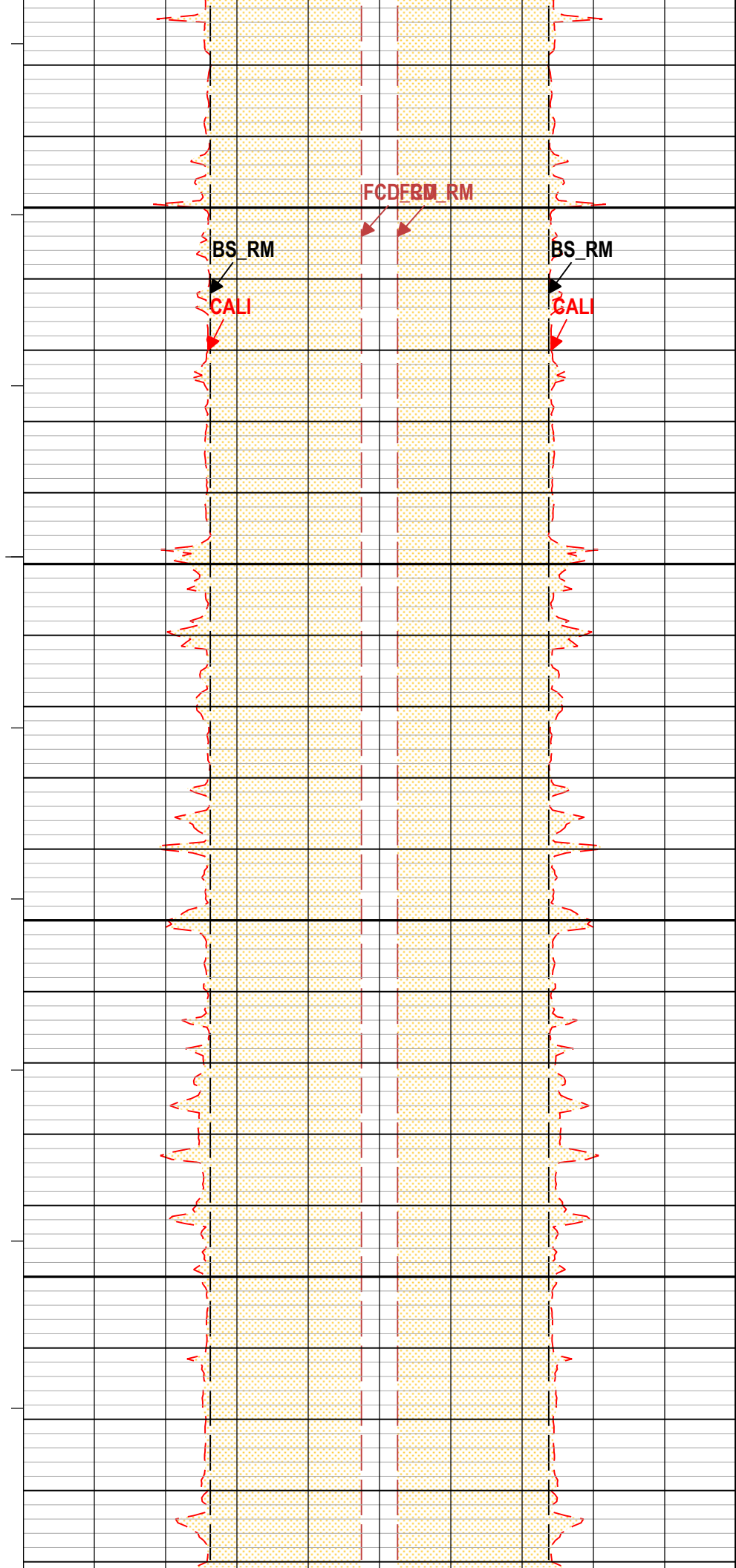
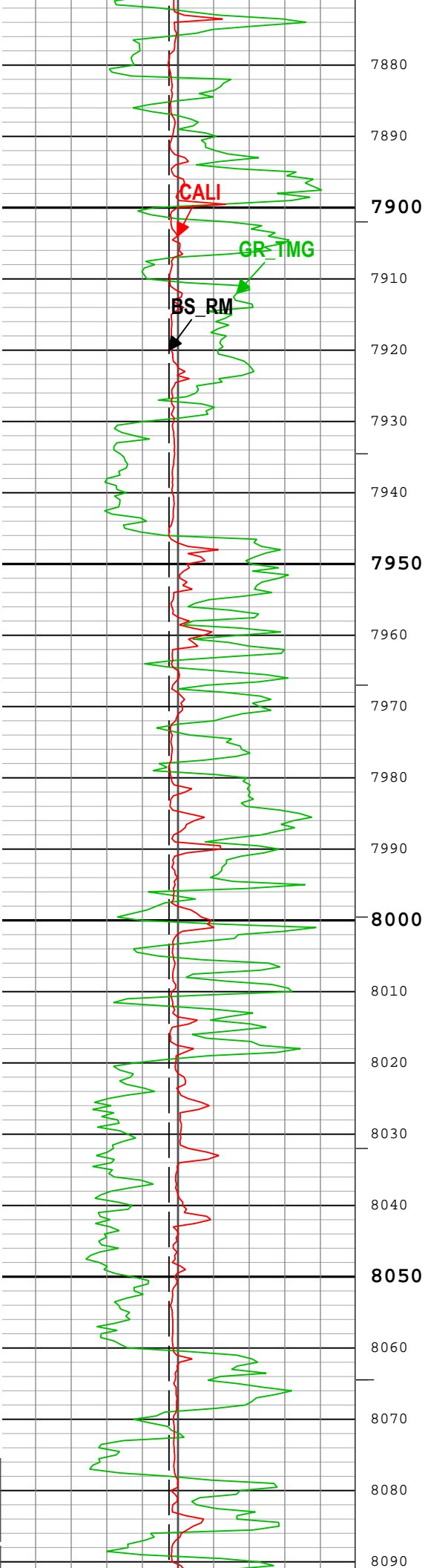


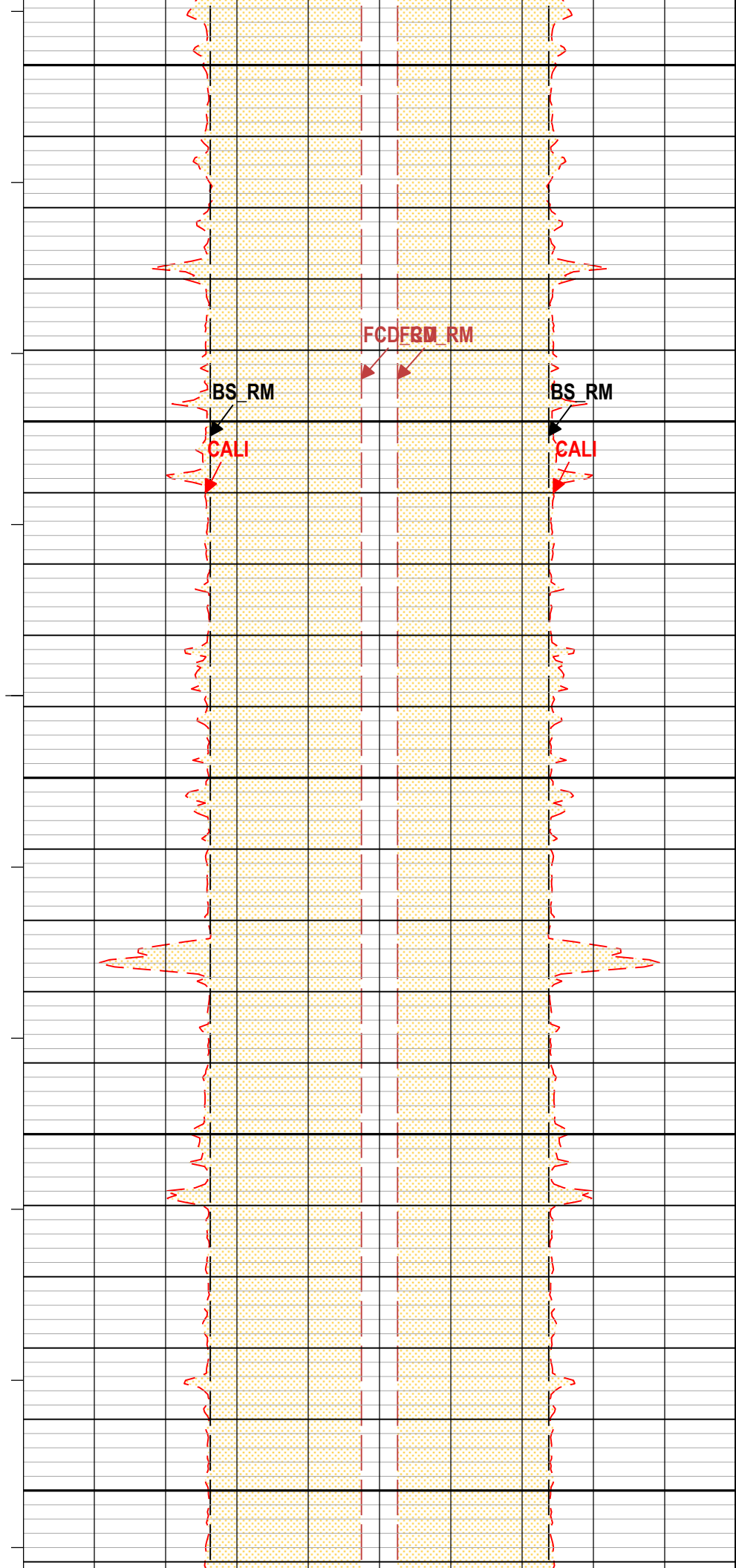
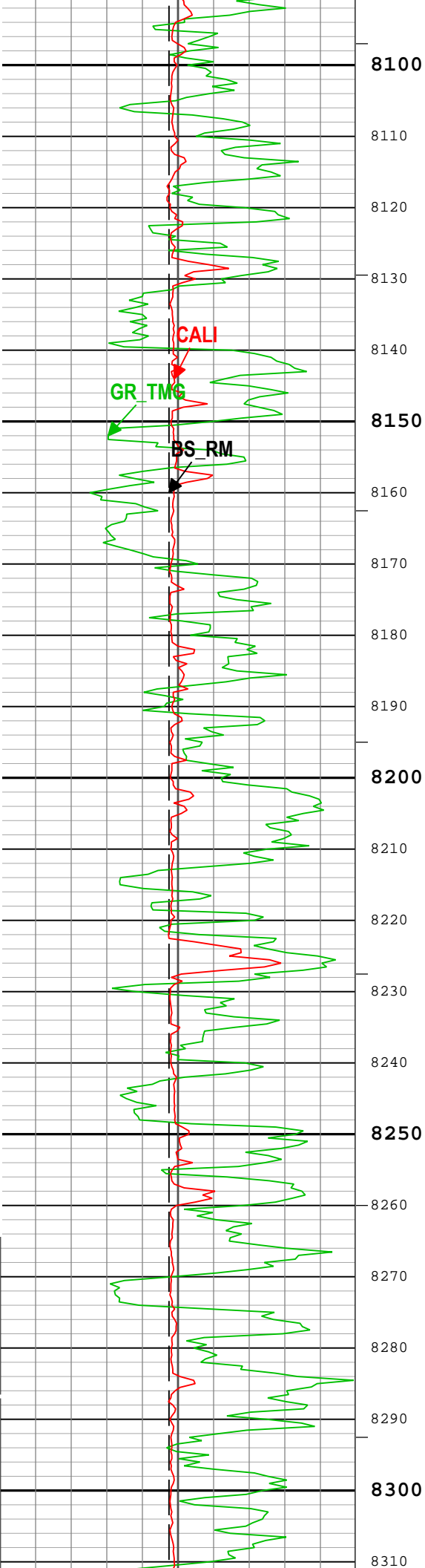


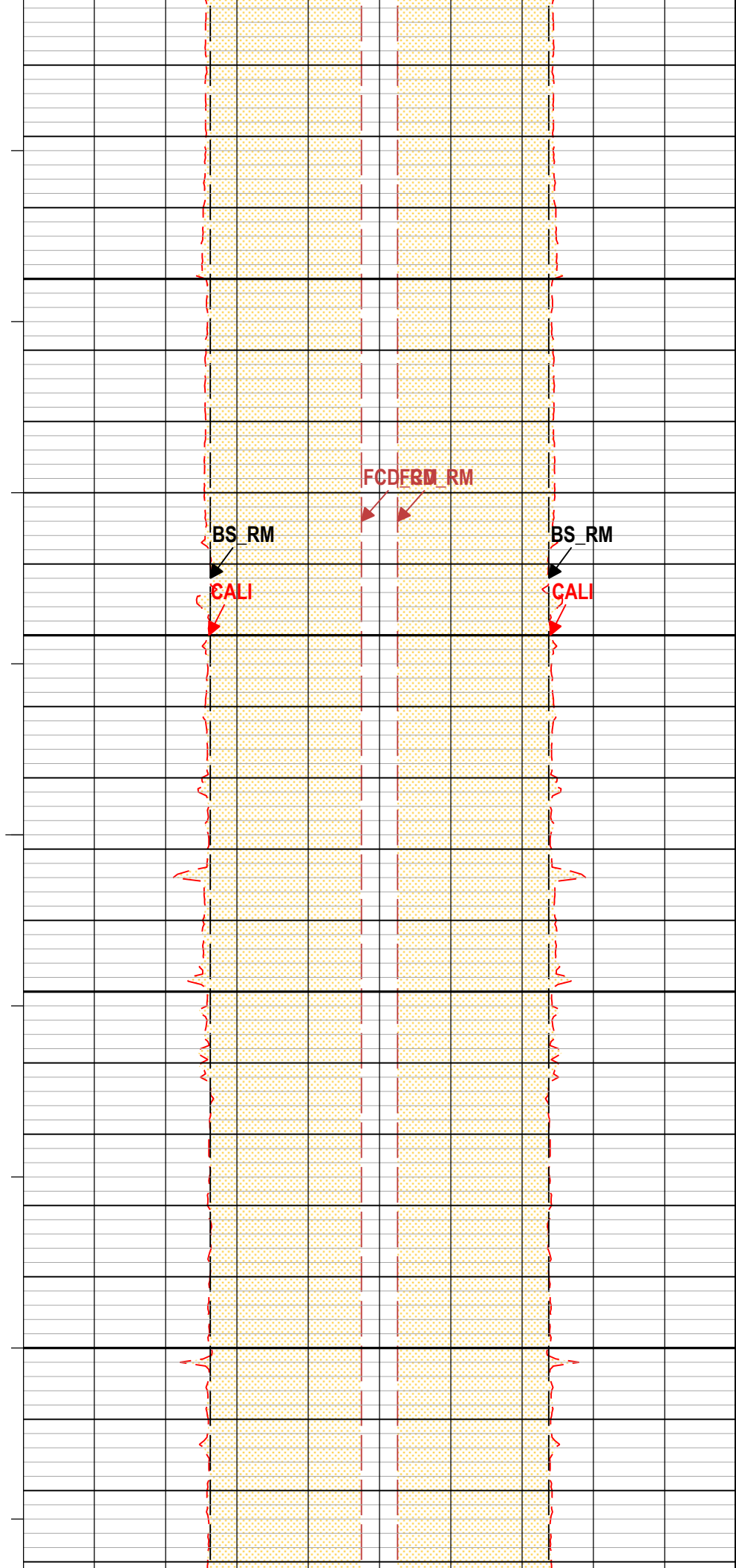
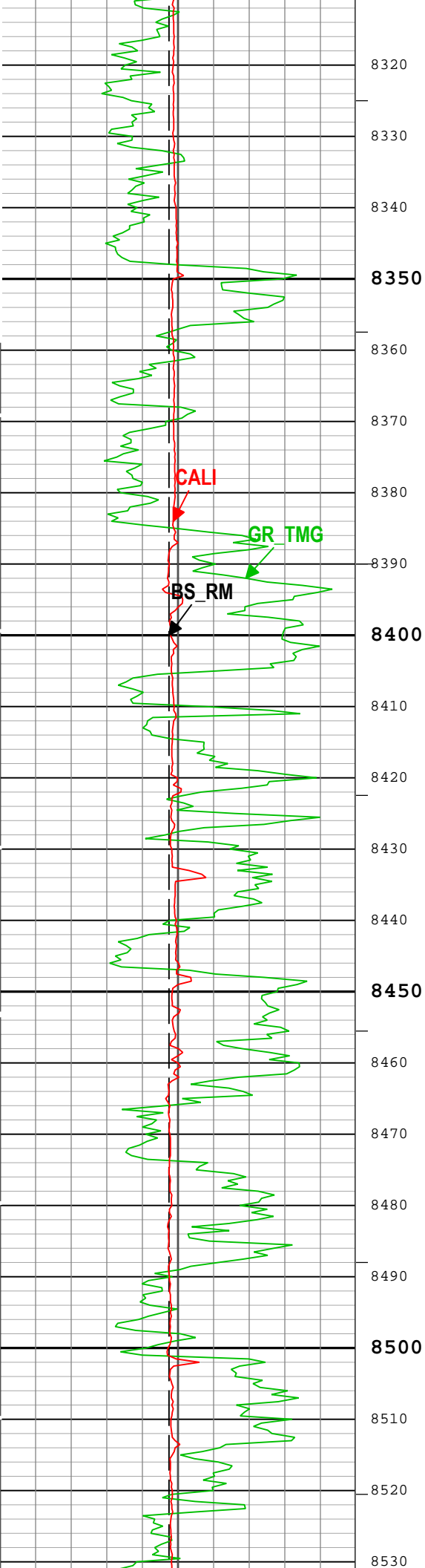


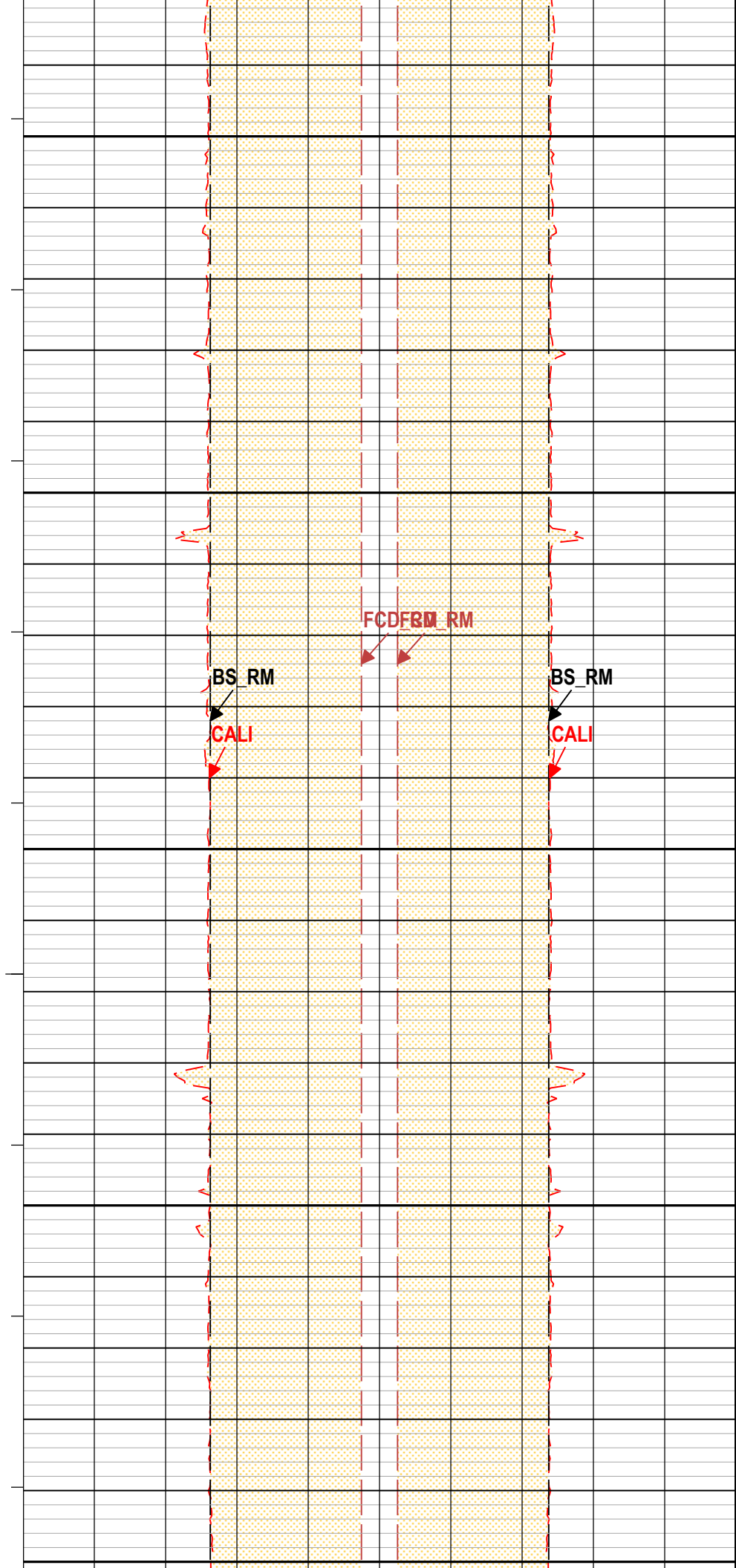
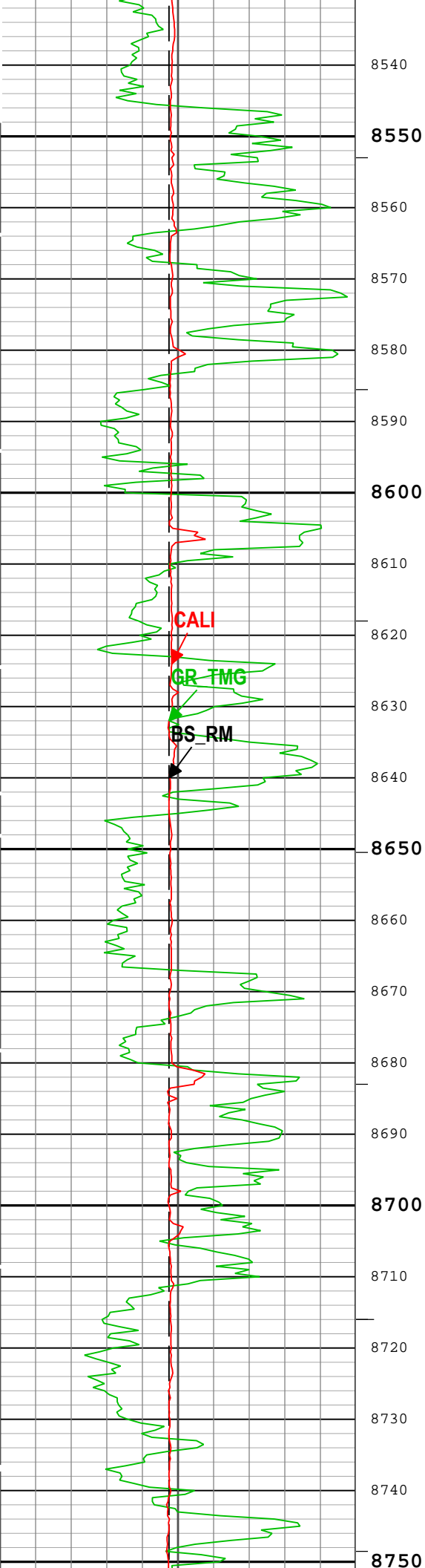


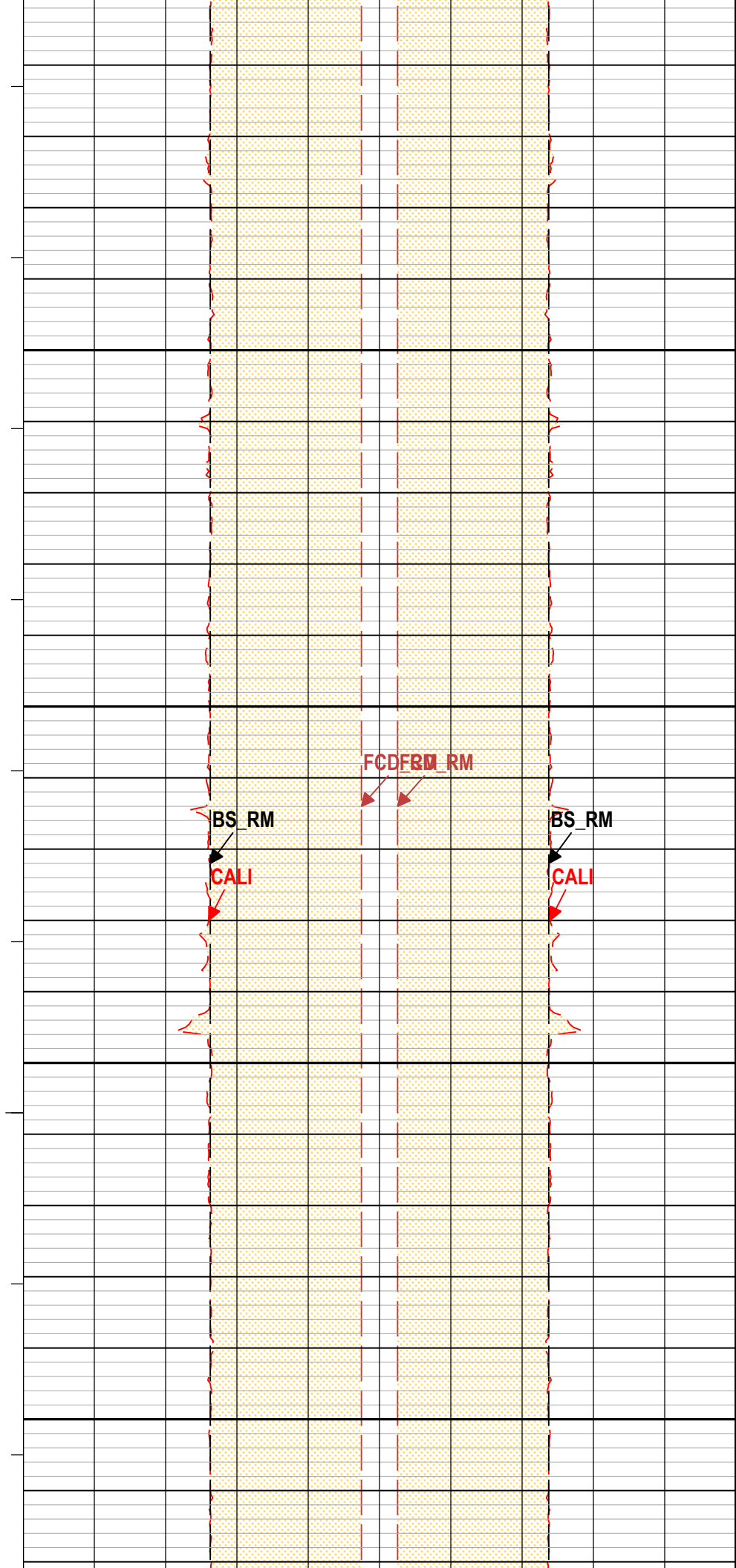
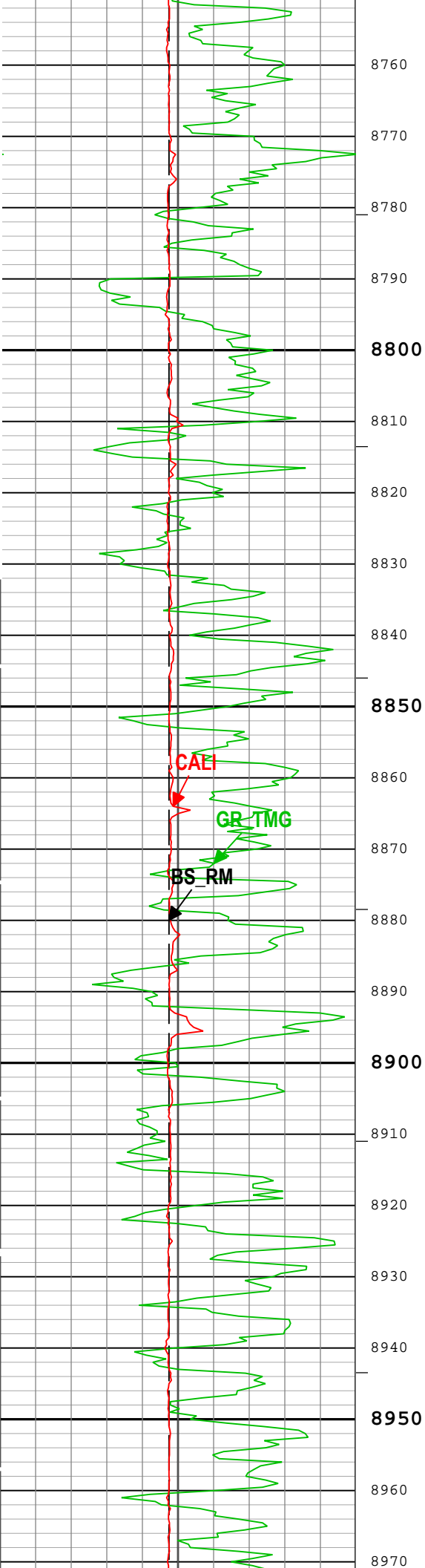


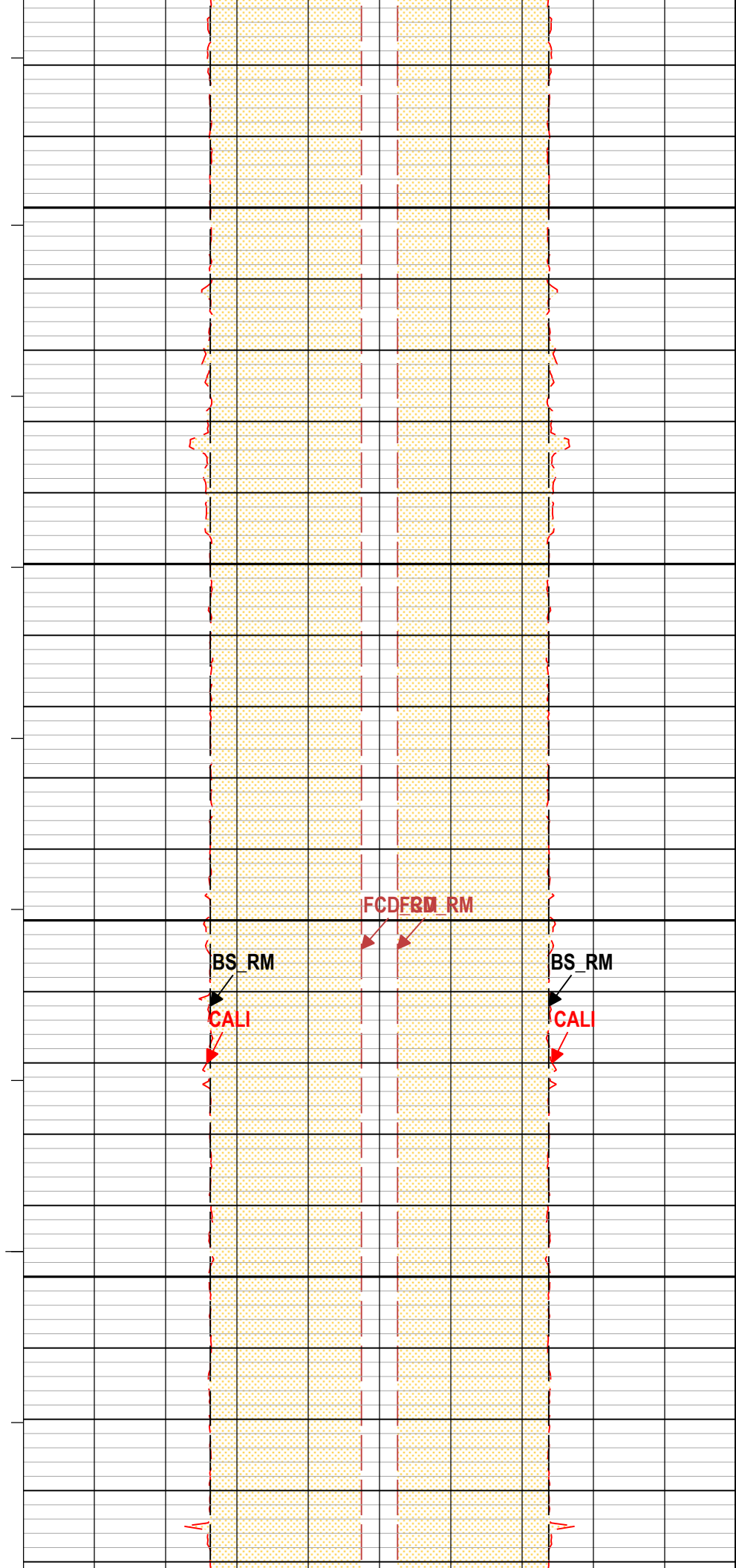
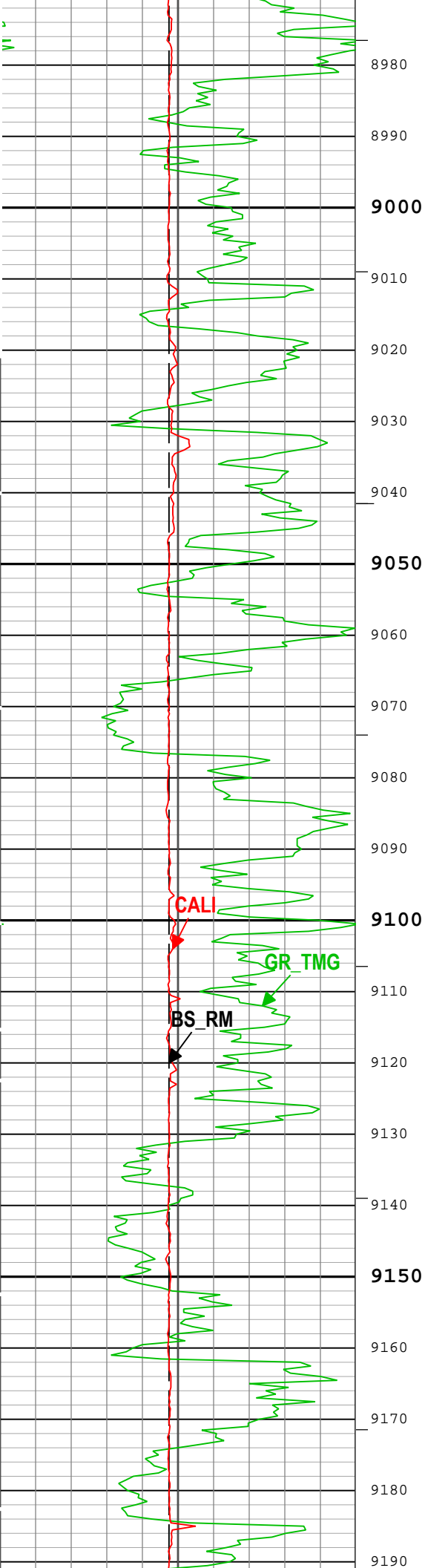


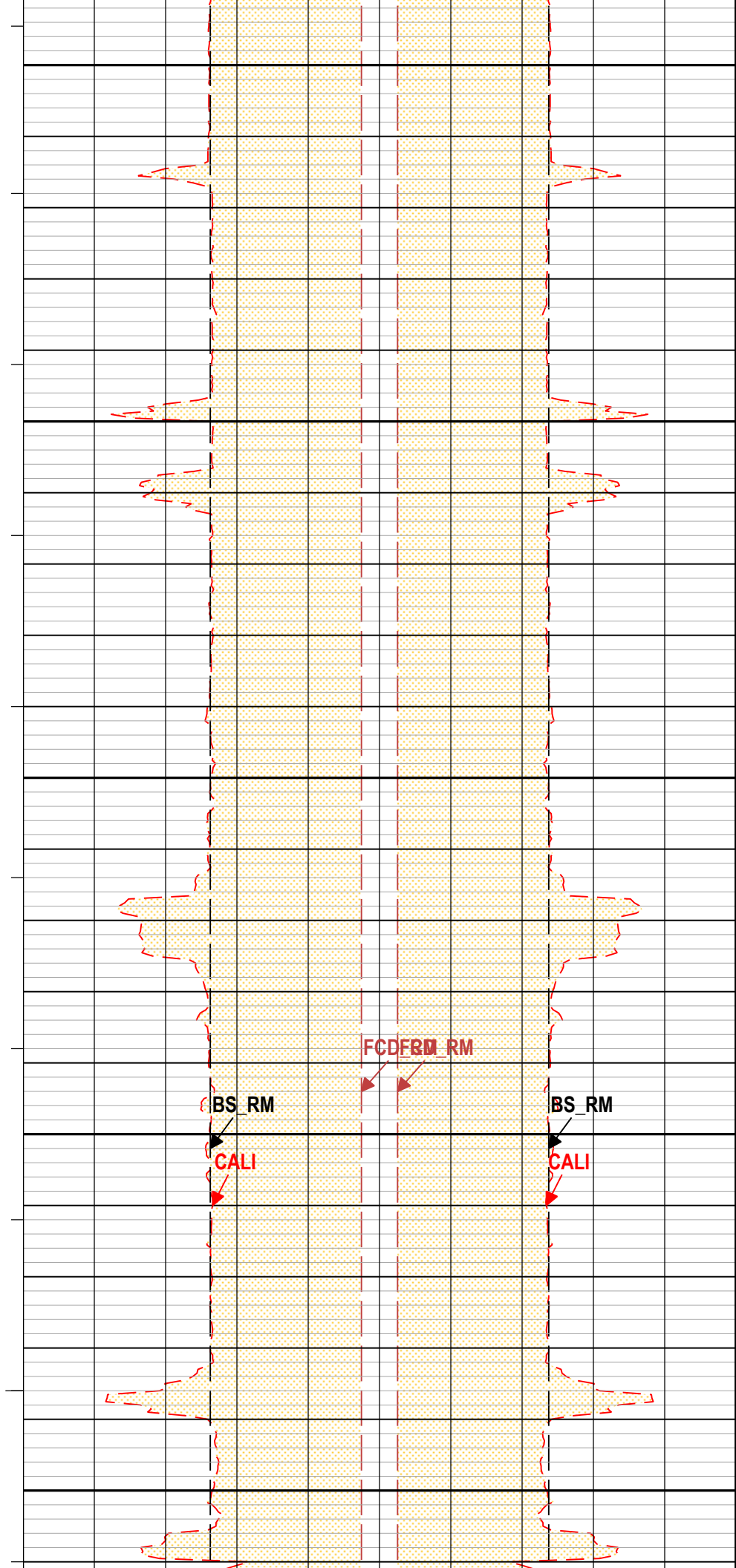
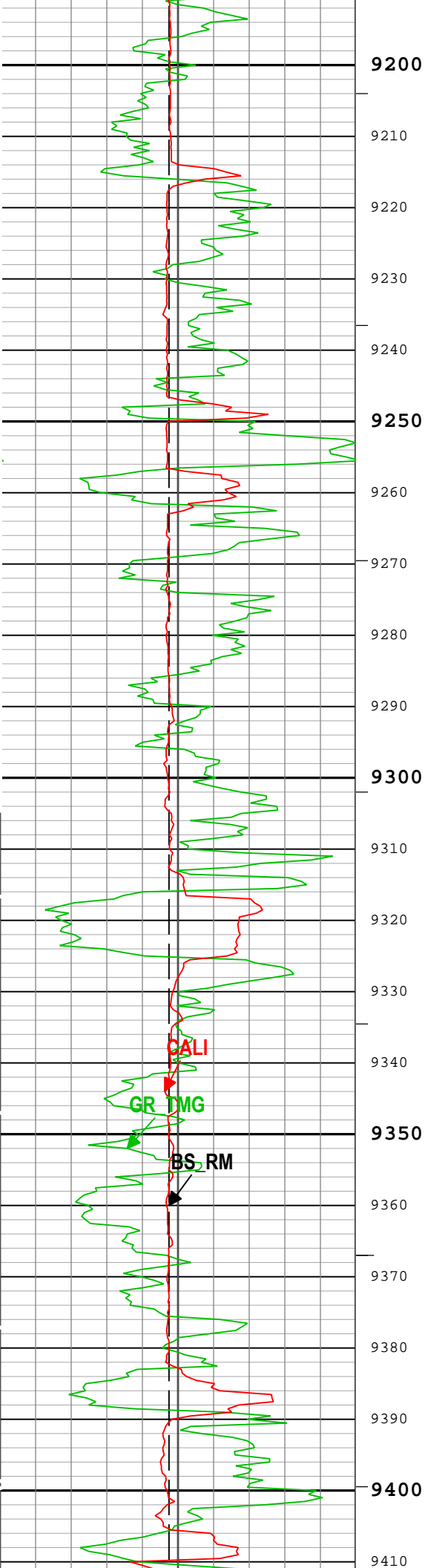


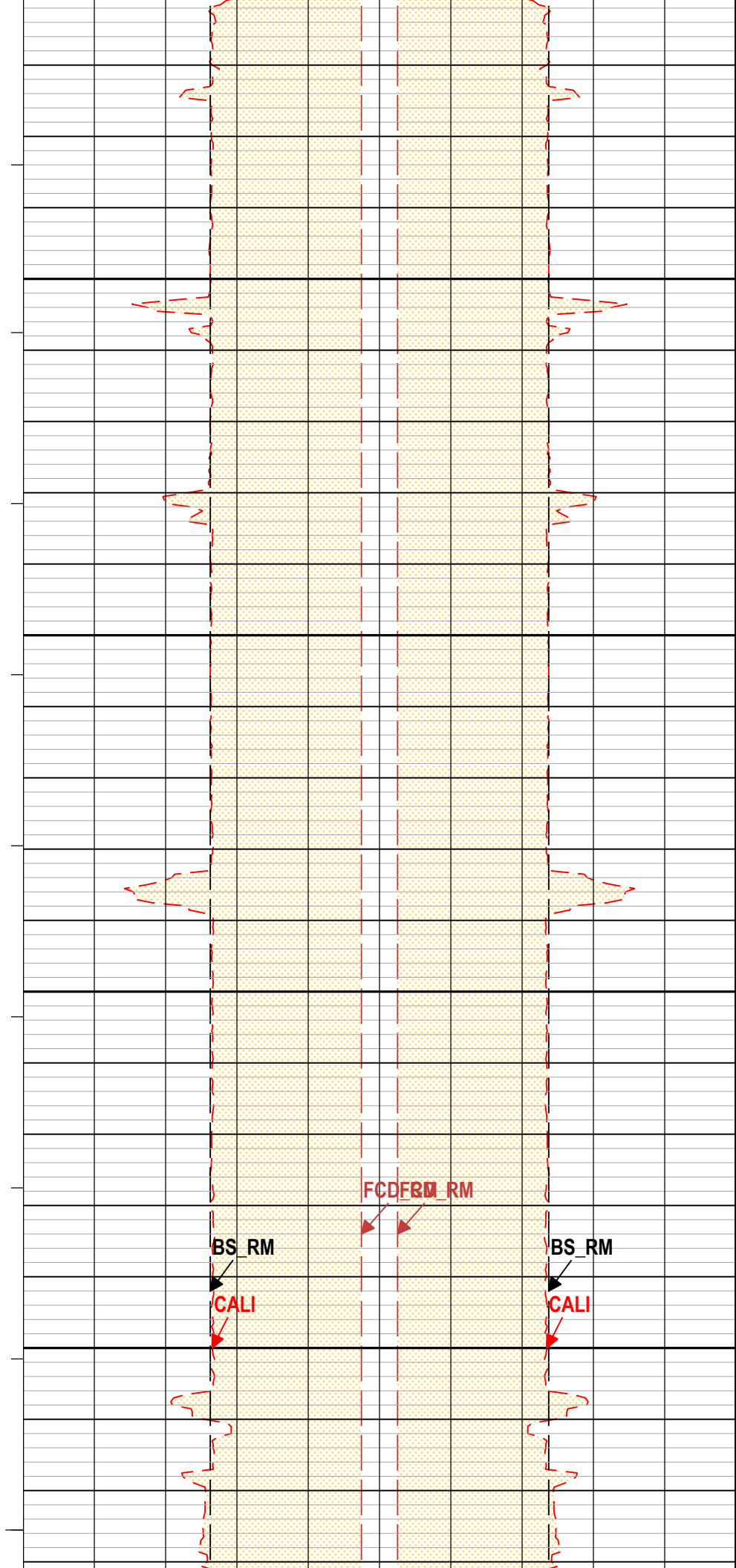
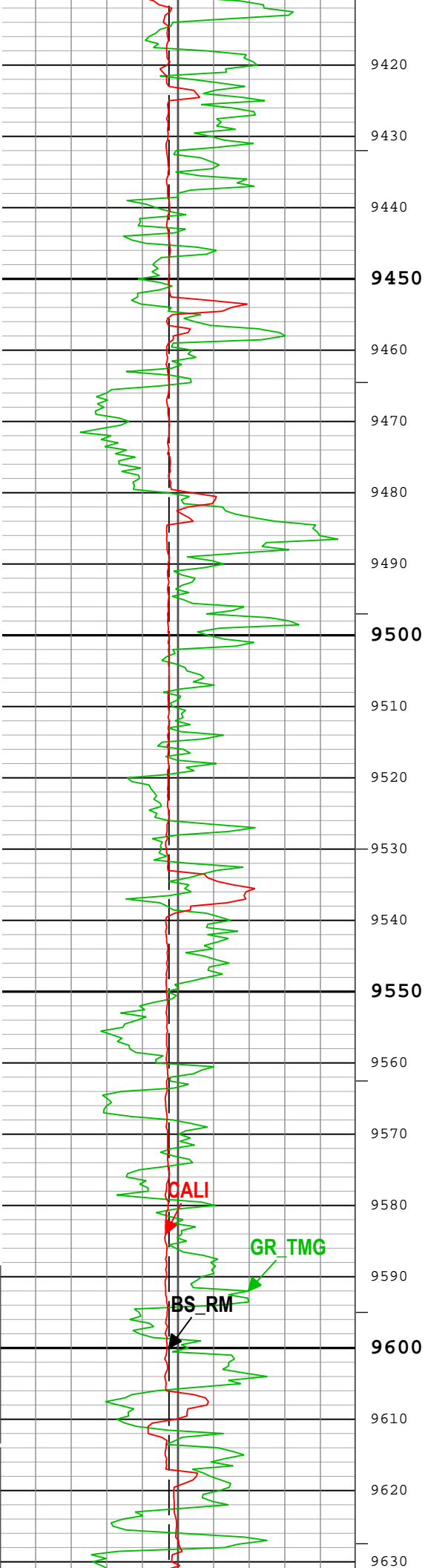


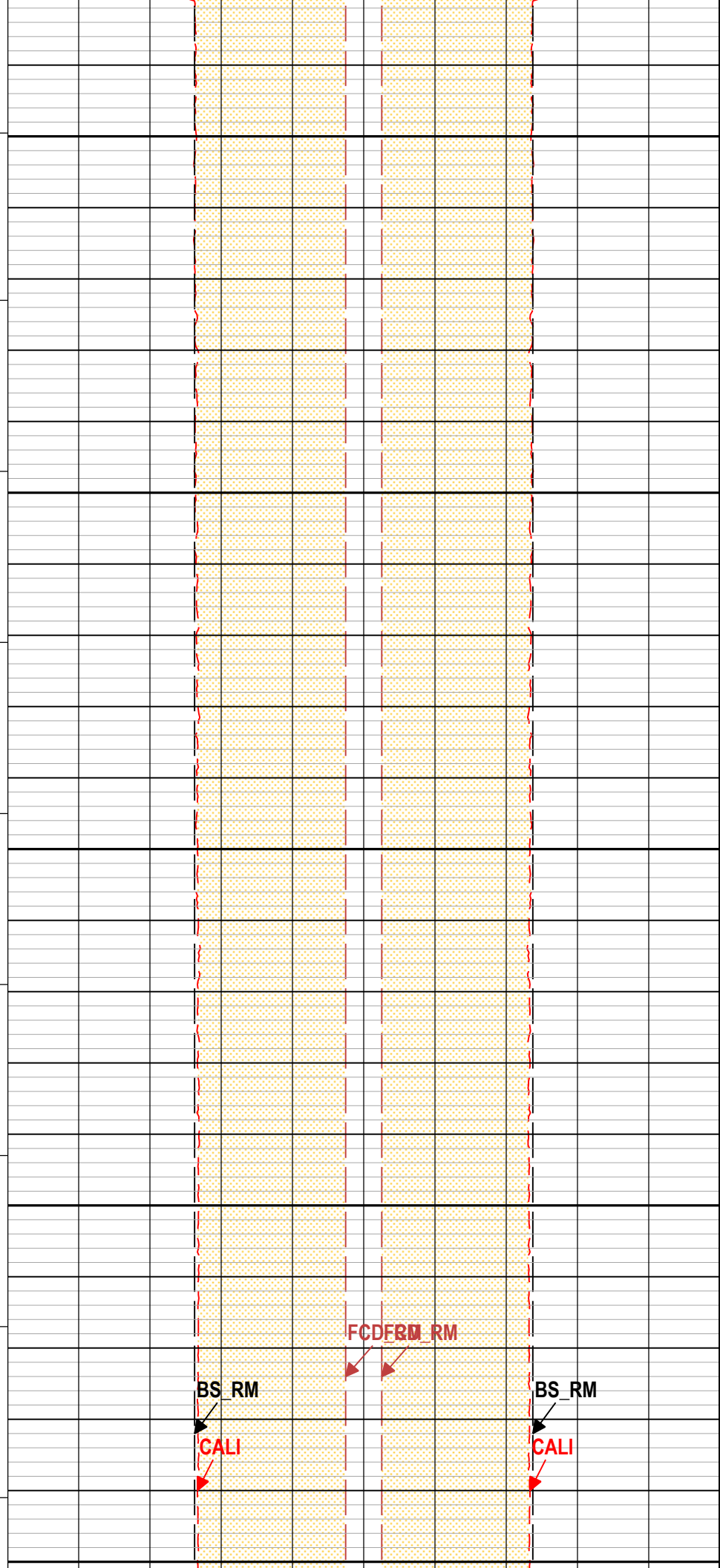
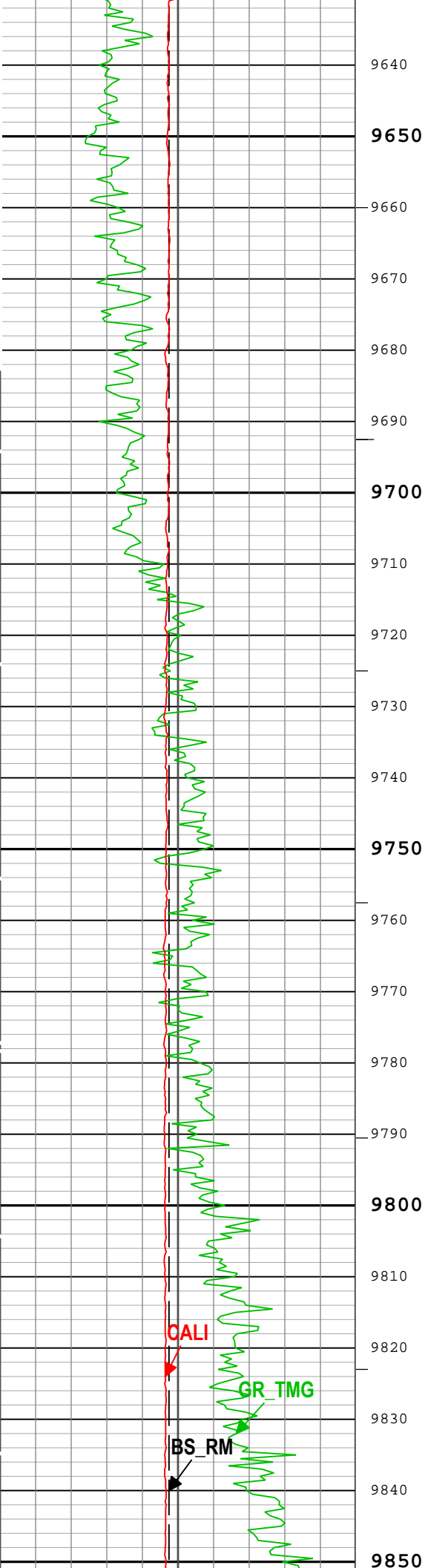


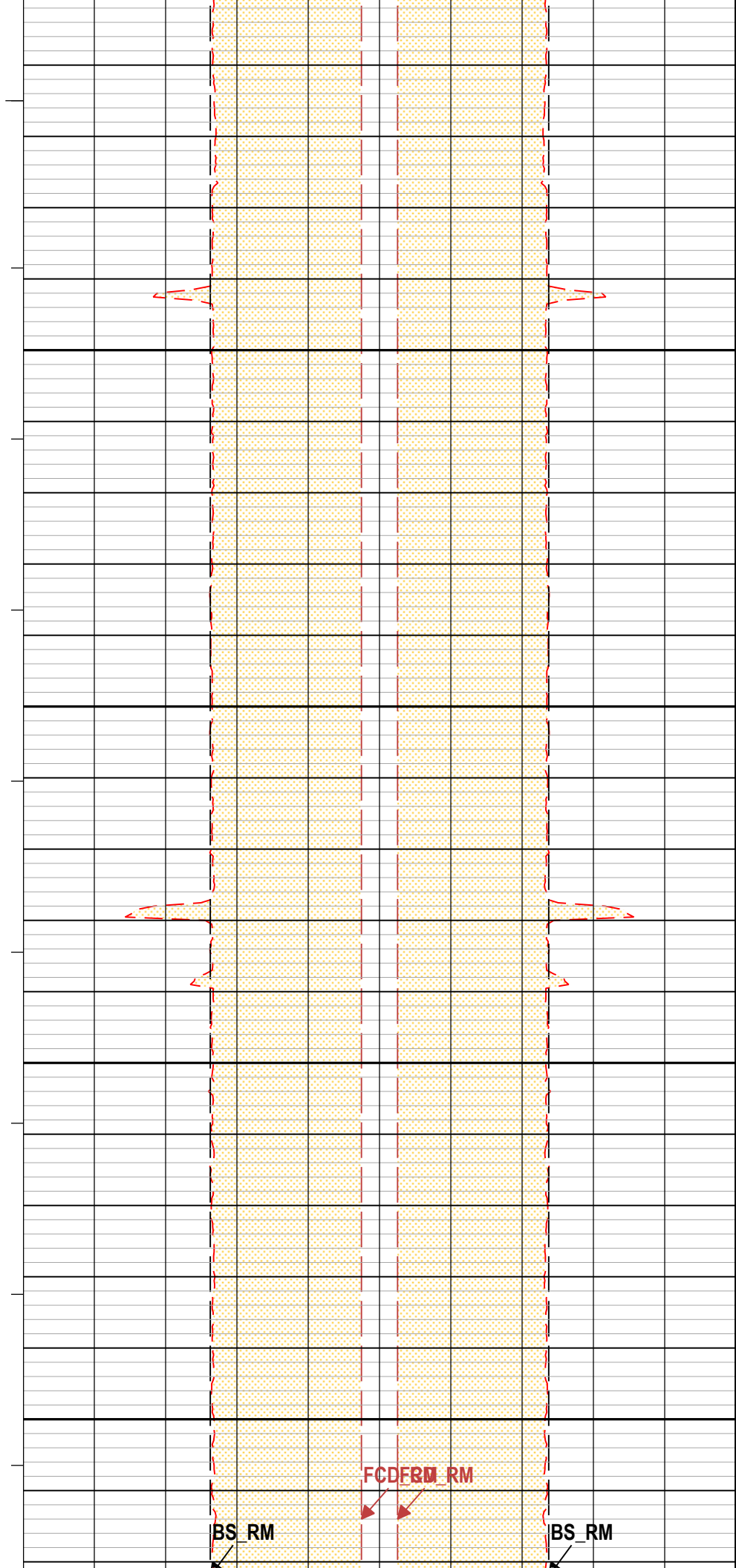
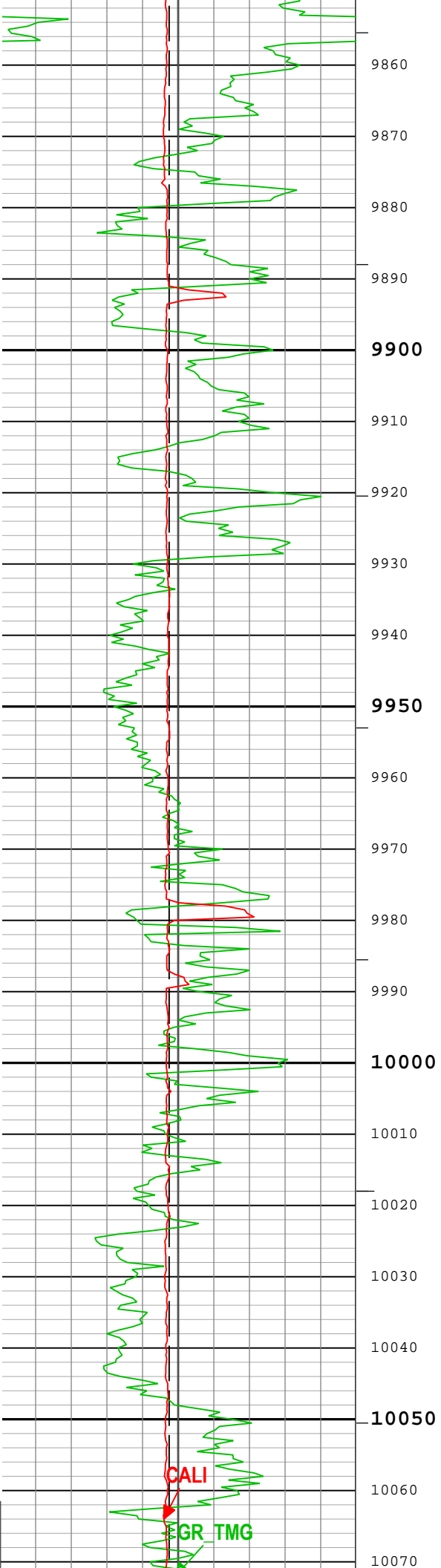


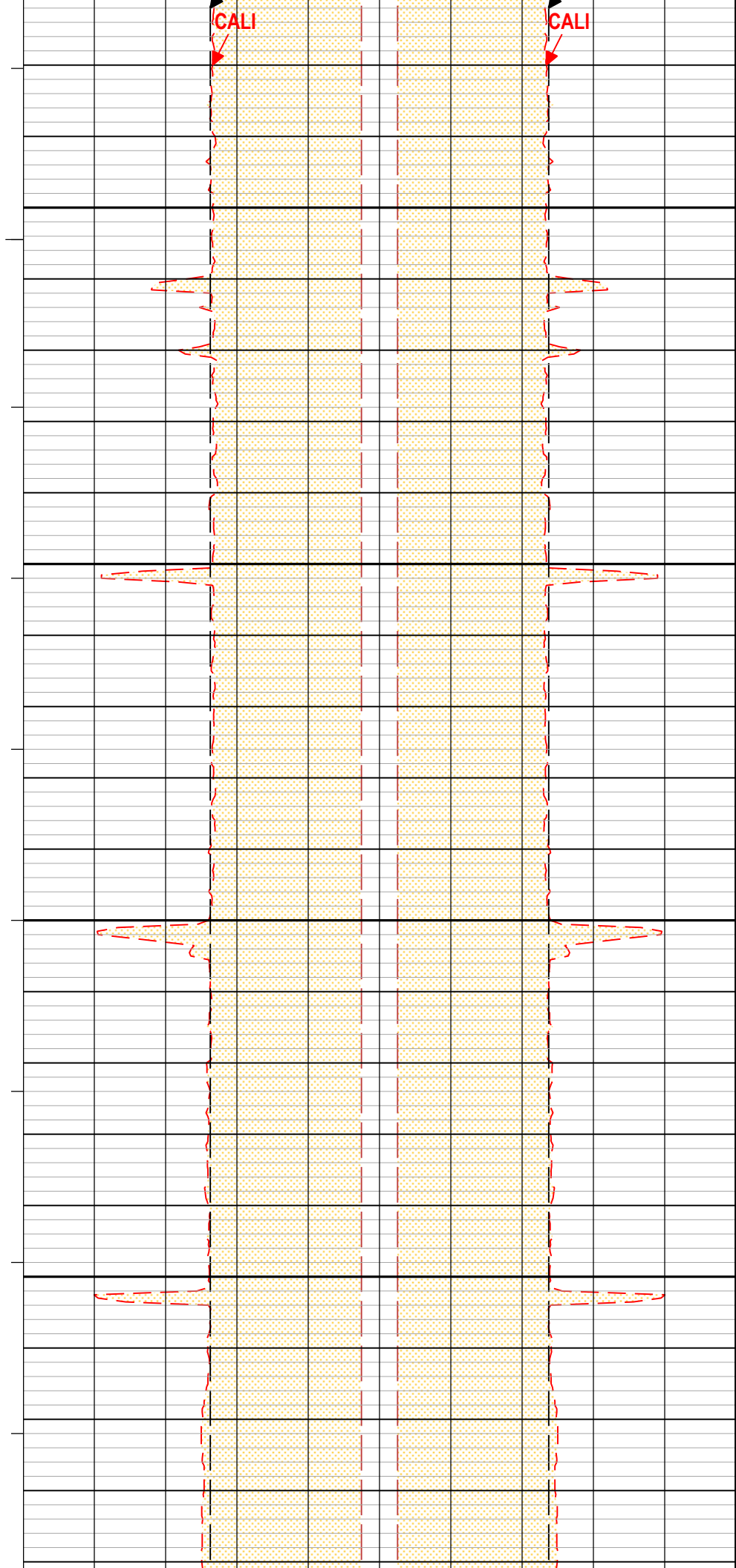
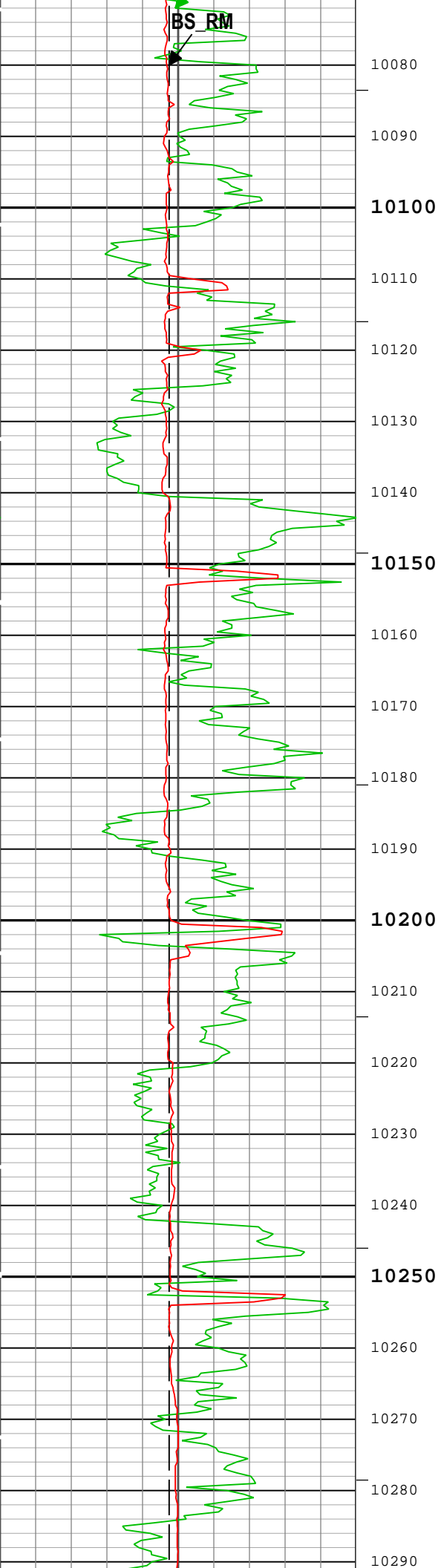


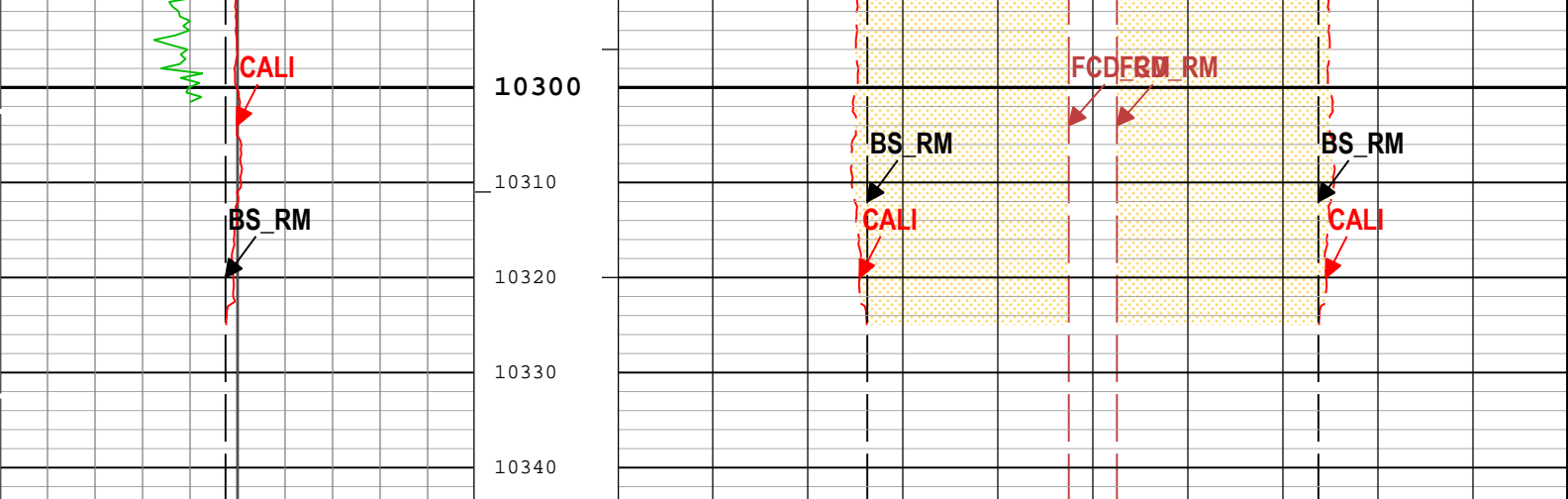












Bit Size (BS_RM) RM		
4	in	14
Calibrated Gamma Ray (GR_TMG) TMG-A RM		
0	gAPI	150
Caliper (CALI) TBD-B RM		
4	in	14

CEMENT			CEMENT		
Caliper (CALI) TBD-B RM			Caliper (CALI) TBD-B RM		
14	in	4	4	in	14
Bit Size (BS_RM) RM			Bit Size (BS_RM) RM		
14	in	4	4	in	14
Future Casing Diameter (FCD_RM) RM			Future Casing Diameter (FCD_RM) RM		
14	in	4	4	in	14

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_TBLA_RESISTIVITY_RM Format: Log (ThruBit_Caliper) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 02-Aug-2018 22:55:52

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
CALI_SHIFT	CALI Supplementary Offset	TBD-B	0.42	in
CBLO	Casing Bottom (Logger)	WLSESSION	2530	ft
FCD	Future Casing (Outer) Diameter	WLSESSION	4.5	in

Tool Control Parameters

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

HID

