

Company: Vecta Oil & Gas Ltd

Well: Bierstadt 32-33

Field: Wildcat

County: Cheyenne

State: Colorado

Platform Express				
Caliper				
Cement Volume				
County: Cheyenne	Field: Wildcat	Location: SWNE, Sec. 33, T.13S	Well: Bierstadt 32-33	Company: Vecta Oil & Gas Ltd
Logging Date	Location:			
	SWNE, Sec. 33, T.13S		Elev. K.B. 4341.00 ft	
	1562 FNL X 2055 FEL R47W		G.L. 4330.00 ft	
			D.F. 4340.00 ft	
Run Number	Permanent Datum:	Ground Level	Elev.:	4330.00 f
	Log Measured From:	Kelly Bushing	11.00 ft	above Perm.Datum
	Drilling Measured From:	Kelly Bushing		
	API Serial No.	Section: 33	Township: 13S	Range: 47W
Logging Date	11-Dec-2012			

Depth Driller	PEX-AIT		
Schlumberger Depth	5565.00 ft		
Bottom Log Interval	5561.00 ft		
Top Log Interval	442.00 ft		
Casing Driller Size @ Depth	8.625 in @ 441.00 ft		
Casing Schlumberger	441 ft		
Bit Size	7.875 in		
Type Fluid In Hole	Water		
Density	9.3 lbm/gal	61 s	
Fluid Loss	PH		
MUD			
Source of Sample	Active Tank		
RM @ Meas Temp	1.12 ohm.m @ 90.6 degF		
RMF @ Meas Temp	0.84 ohm.m @ 68 degF		
RMC @ Meas Temp	1.68 ohm.m @ 68 degF		
Source RMF	RMC	Calculated	
RM @ BHT	0.74 @ 140	0.43 @ 140	
Max Recorded Temperatures	140 degF		
Circulation Stopped	11-Dec-2012	08:00:00	
Logger on Bottom	11-Dec-2012	17:00:00	
Unit Number	Location: 3022	Fort Morgan, CO	
Recorded By	Heather Bennett		
Witnessed By	Ryan Scribner		

Disclaimer

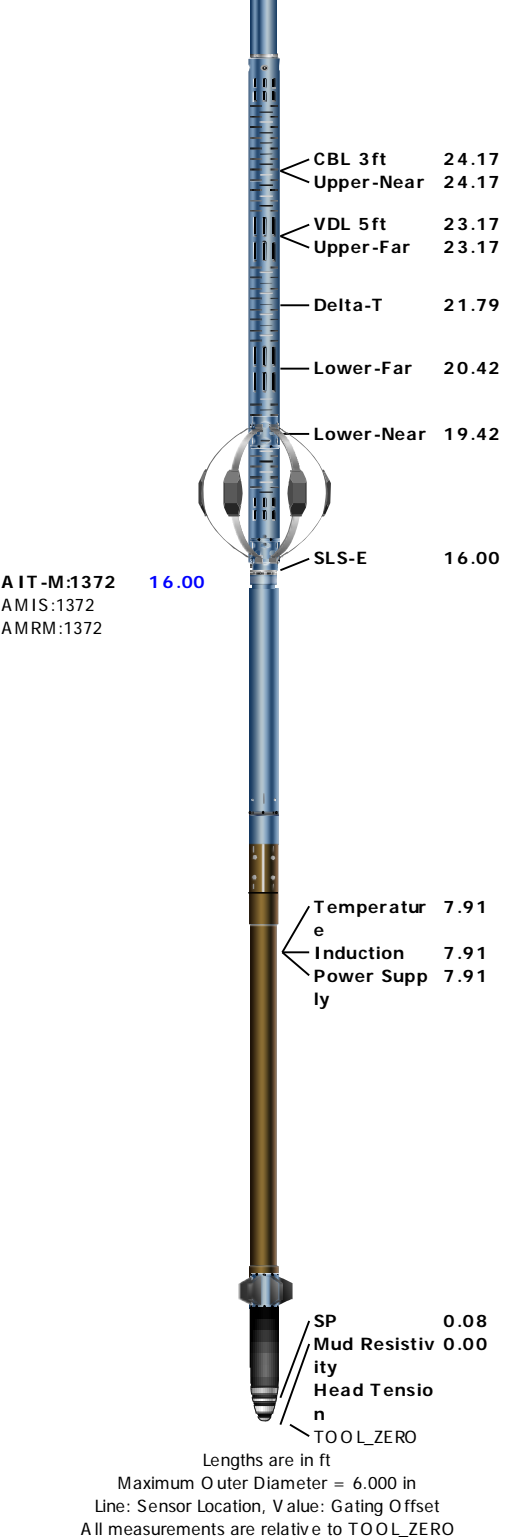
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Remarks and Equipment Summary

PEX-AIT: Toolstring				PEX-AIT: 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				Matrix: Limestone 2.71 (g/cc)
				Crew:Ian Derry, Jake Jump
DTC-H:9236	61.29			
ECH-KC:10316		CTEM	60.39	
DTC-H:9236		HV	0.00	
		TelStatus	58.29	
		ToolStatus	58.29	
HGNS-H:4779	58.29	Temperatur	58.26	
HGNH:3826				
NPV-N		GR	57.55	
NSR-F:5215				
HMCA-H				
HGNS-H:4779				
HACCZ-H:5736				
		CNL Porosit	51.21	
		y		
		HGNS	48.88	
		HMCA	48.88	
		Accelerome	0.00	
		ter		
HDRS-H:4826	48.88			
ECH-MEB				
HRCC-H:3712				
HRMS-H:4826				
Long Spacing:28				
926				
HRGD-H:3775				
GPV-Q		HRCC	44.88	
Backscatter:2640				
4				
Short Spacing				
GSR-J:5240				
		MCFL	39.45	
		Caliper	38.96	
		TLD Density	38.57	
DSLT-H:8318	36.64			
ECH-KH				
DSLC-H:8318				
SLS-E:165				



Depth Summary

Depth Control Parameters	PEX-AIT		
Conveyance Type	Wireline		
Depth Measuring Device	PEX-AIT		
Type	IDW-B		
Wheel Correction 1	1		
Wheel Correction 2	0		
Tension Device	PEX-AIT		
Type	CMTD-B/A		
Calibration Points	0		
Logging Cable	PEX-AIT		
Type	7-46NT-XS		
Logging Cable Length (ft)	24000.00		

PEX-AIT	
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Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	1213.63	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS	2059.87	ft3

Software Version	
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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
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels	3.1.9755.0
DepthCorrection	DepthCorrection	3.1.9755.0

Tool Elements	Description	Software Version	Firmware Version
HRCC-H	HILT High-Resolution Control Cartridge, 150 degC	3.1.9755.0	2.0
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC	3.1.9755.0	2.0

Pass Summary	
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Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
PEX-AIT	Log[3]:Up	Up	365.61 ft	5571.09 ft	11-Dec-2012 4:54:22 PM	11-Dec-2012 6:41:38 PM	5.00 ft	

All depths are referenced to toolstring zero

Log

PEX-AIT: Log[3]:Up

Log

PEX-AIT: Log[3]:Up

Description: Format: Log (Noble East Caliper) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 11-Dec-2012 18:56:48

Channel	Source	Sampling
CALI	HDRS-H:HRCC-H:HRCC-H	1in
BS	Borehole	6in
BS	Borehole	6in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR_CAL	HGNS-H:HGNS-H:HGNS-H	6in
ICV	Borehole	6in
IHV	Borehole	6in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

— IHV - Integrated Hole Volume every 100.00 (ft3)

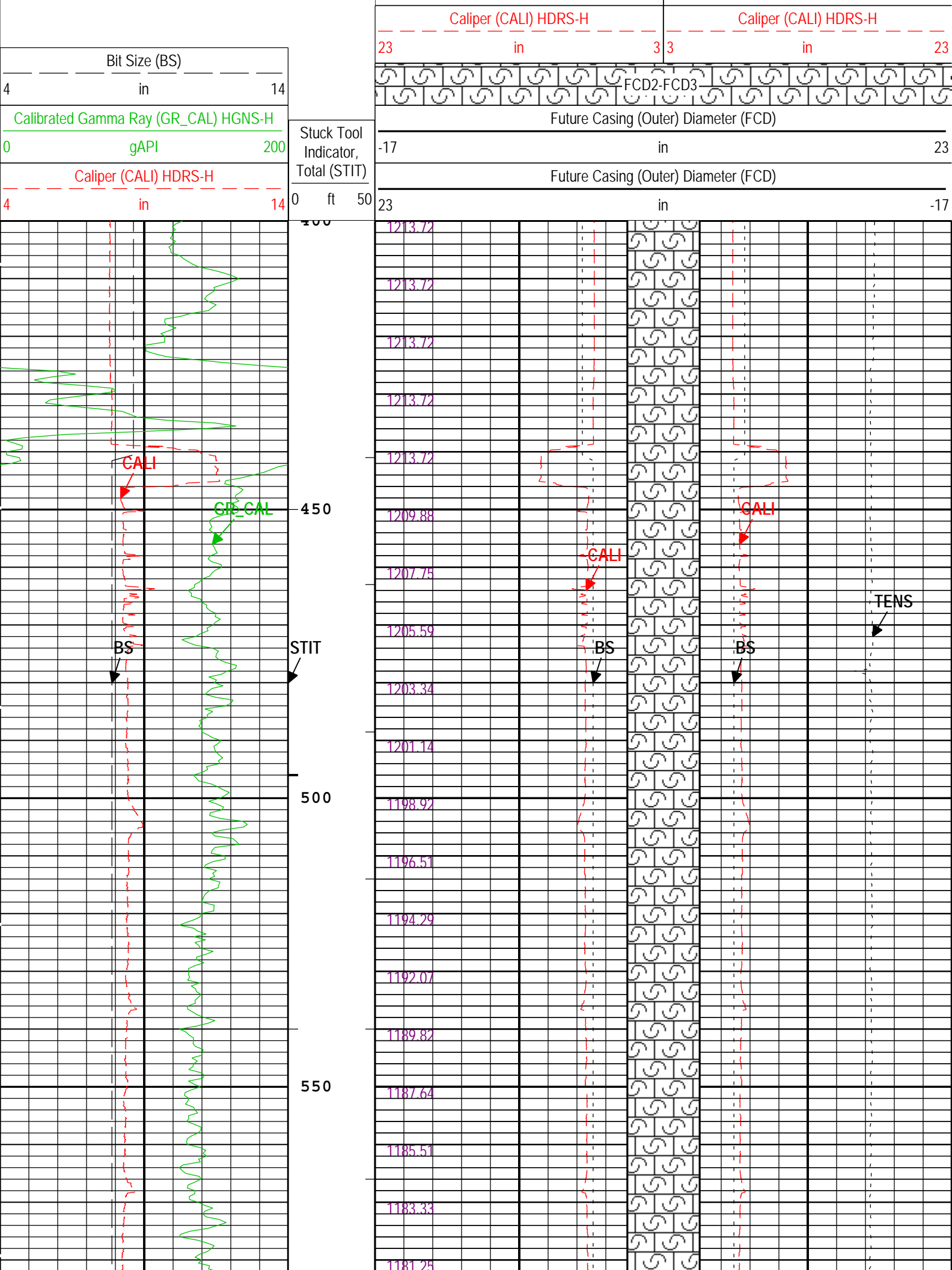
—ICV - Integrated Cement Volume every 100.00 (ft3)

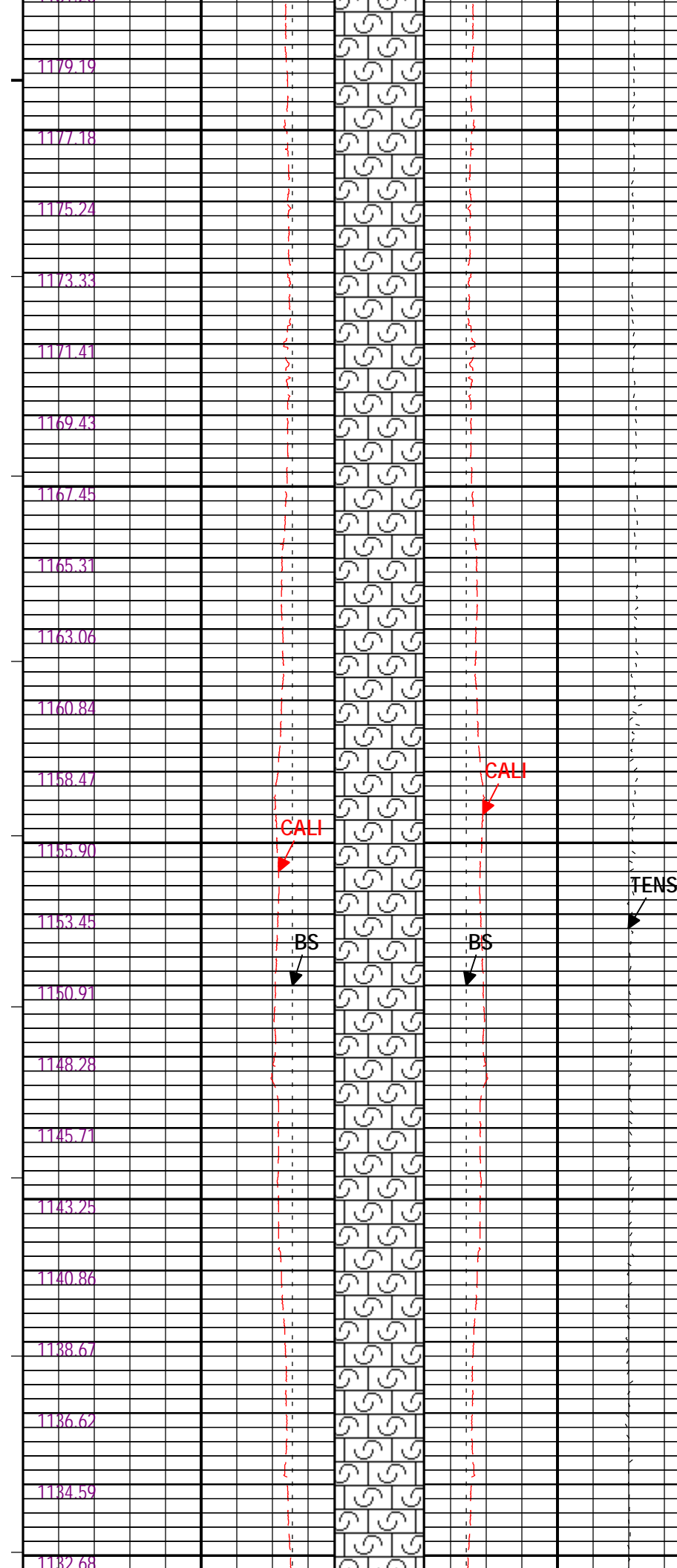
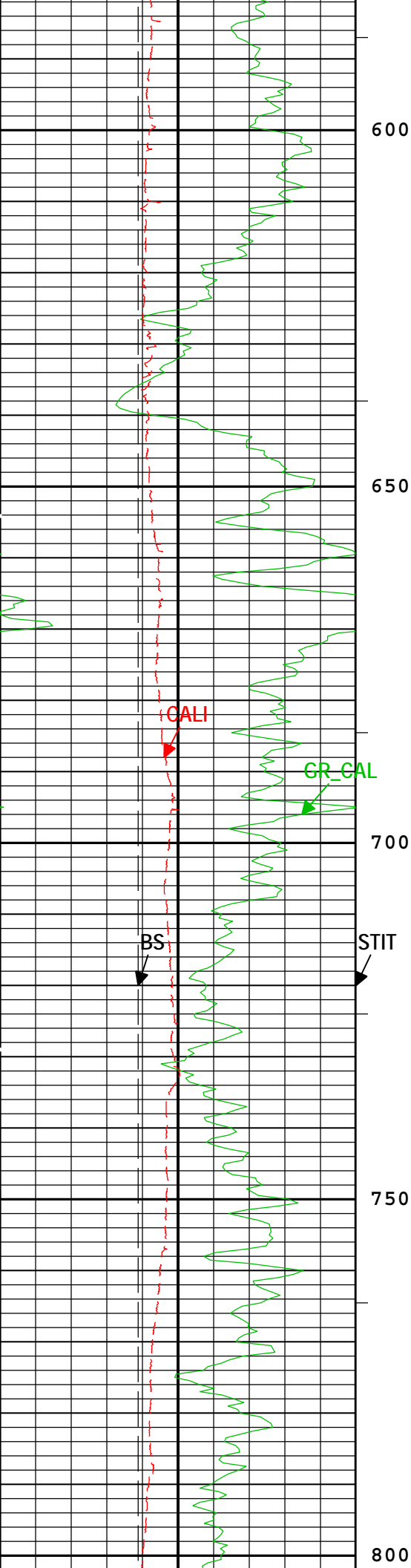
TIME_1900 - Time Marked every 60.00 (s)

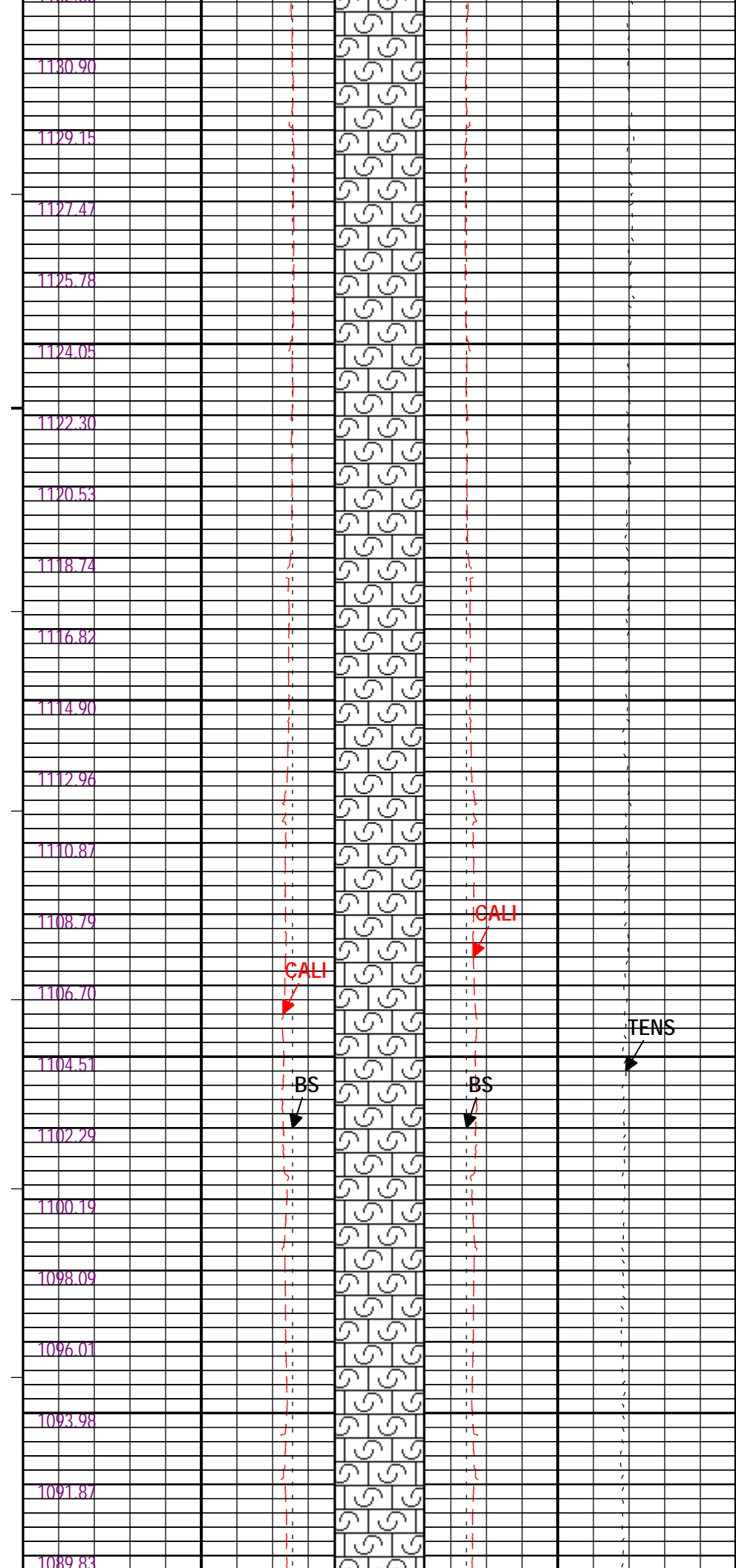
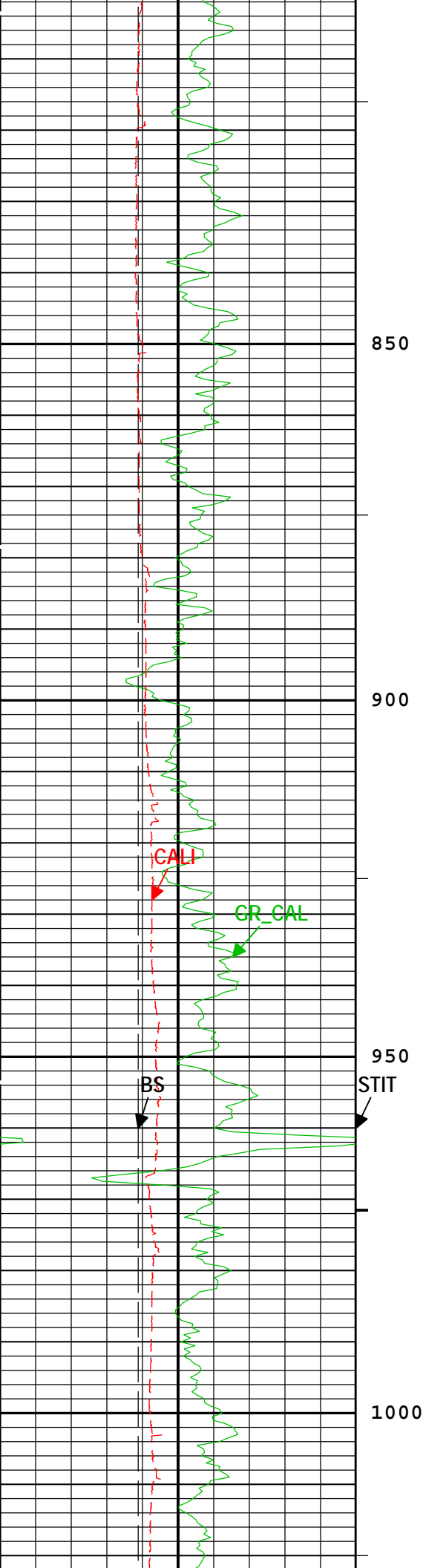
—IHV - Integrated Hole Volume every 10.00 (ft3)

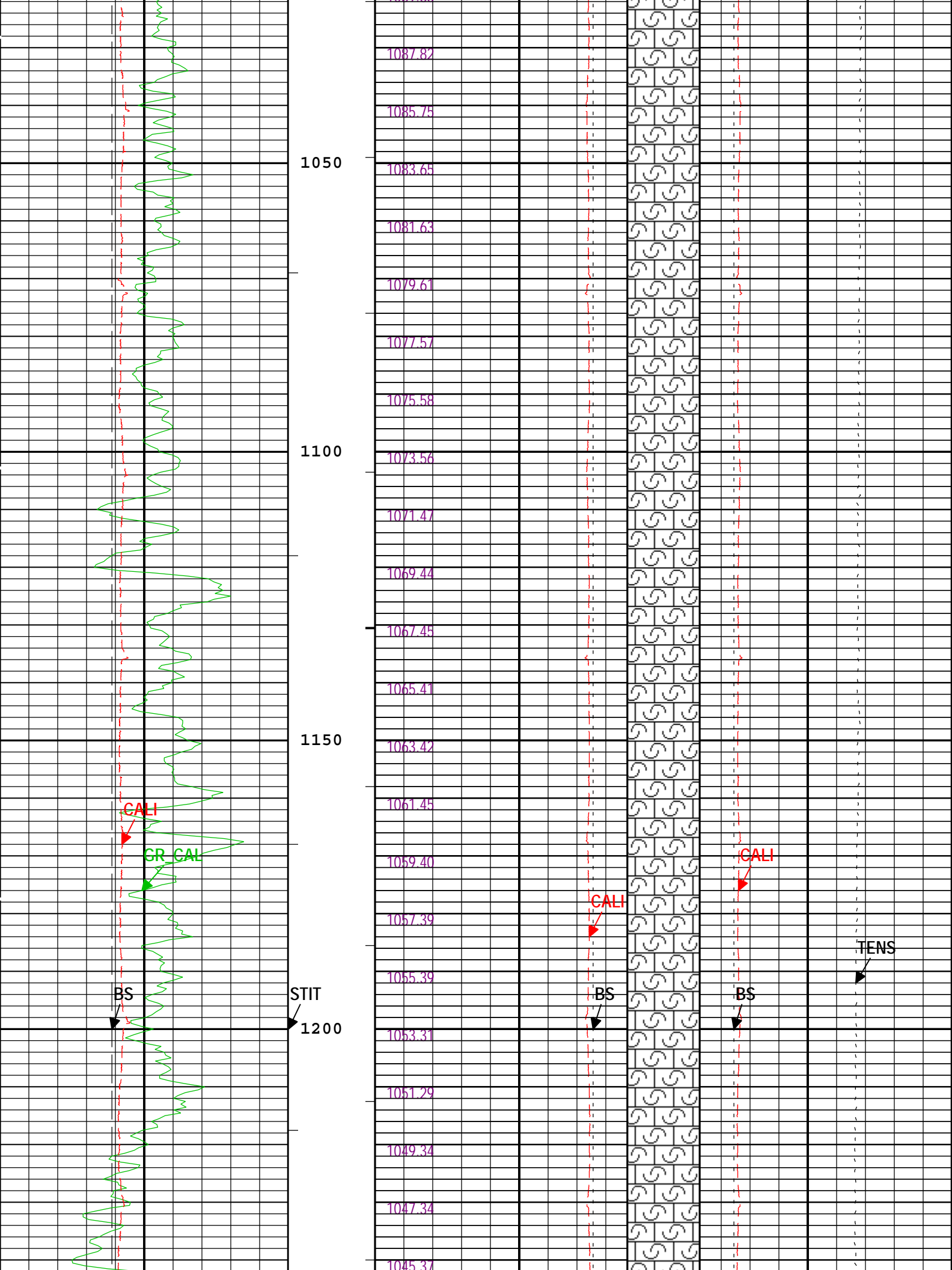
— ICV - Integrated Cement Volume every 10.00 (ft3)

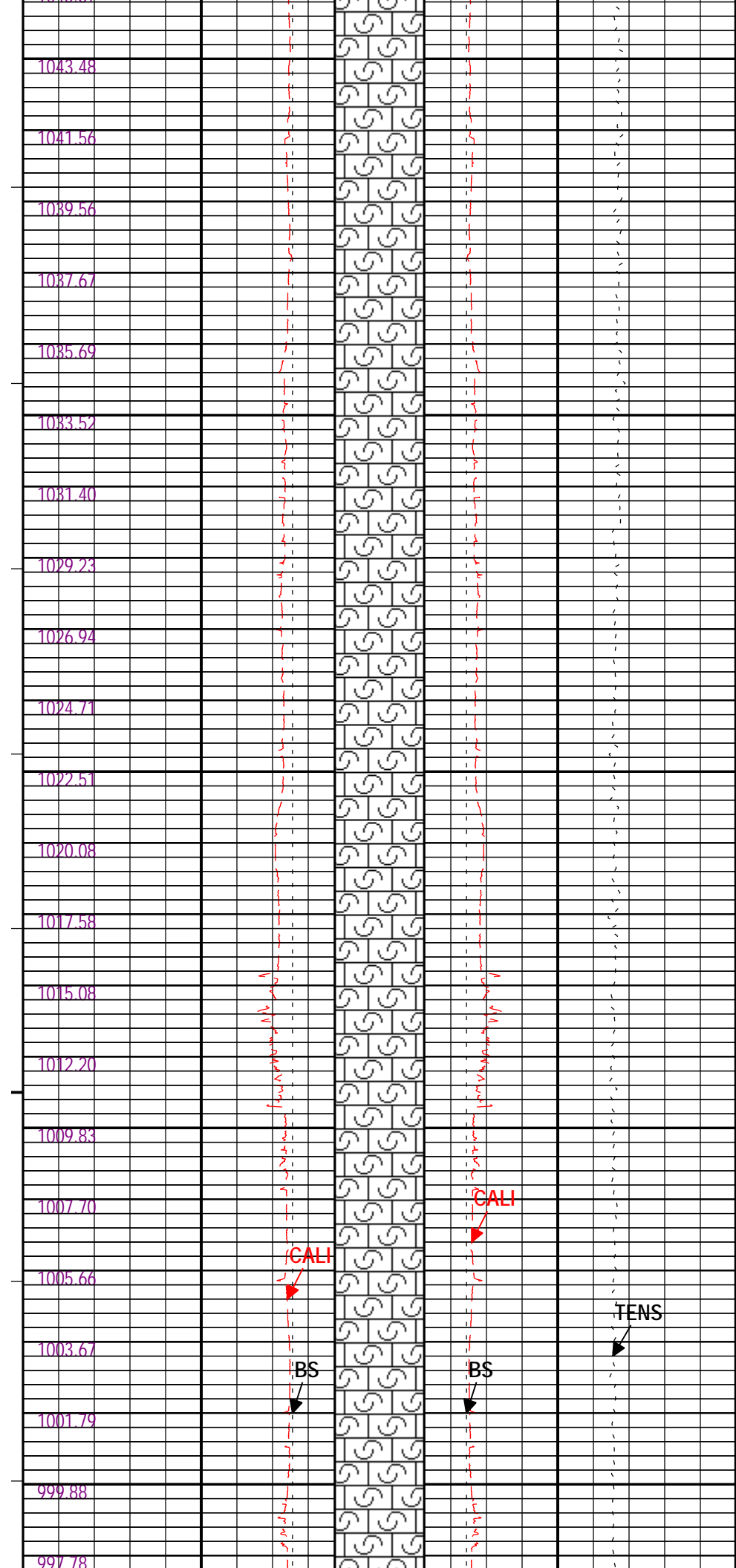
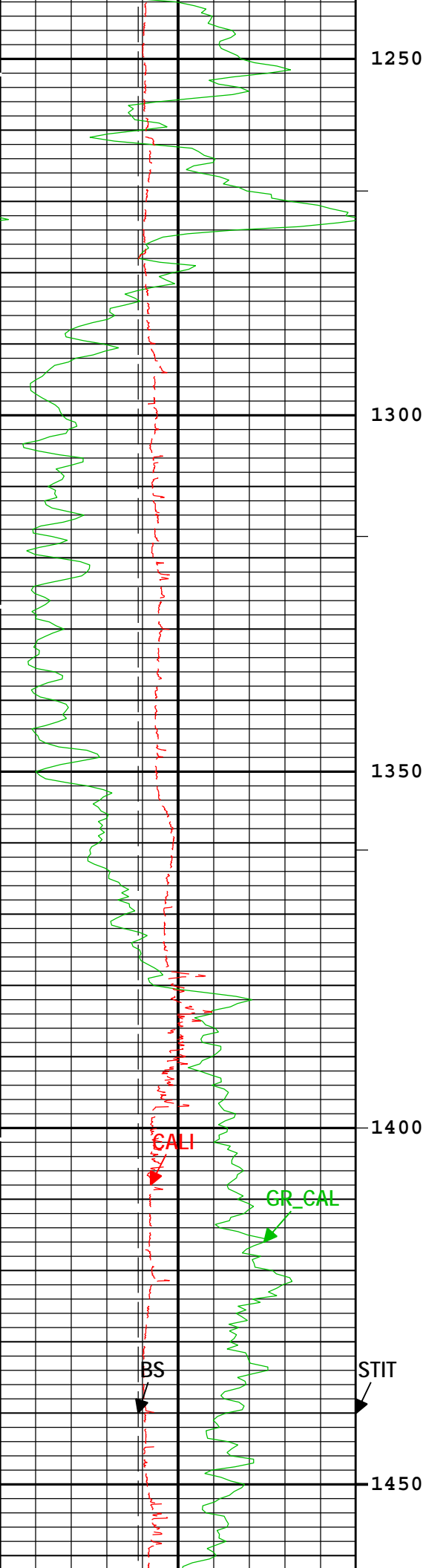
Integrated Cement Volume (ICV) ft3	Bit Size (BS)	
	3	23
Bit Size (BS)		Cable Tension (TENS)
23	3	5000 0
		lbf

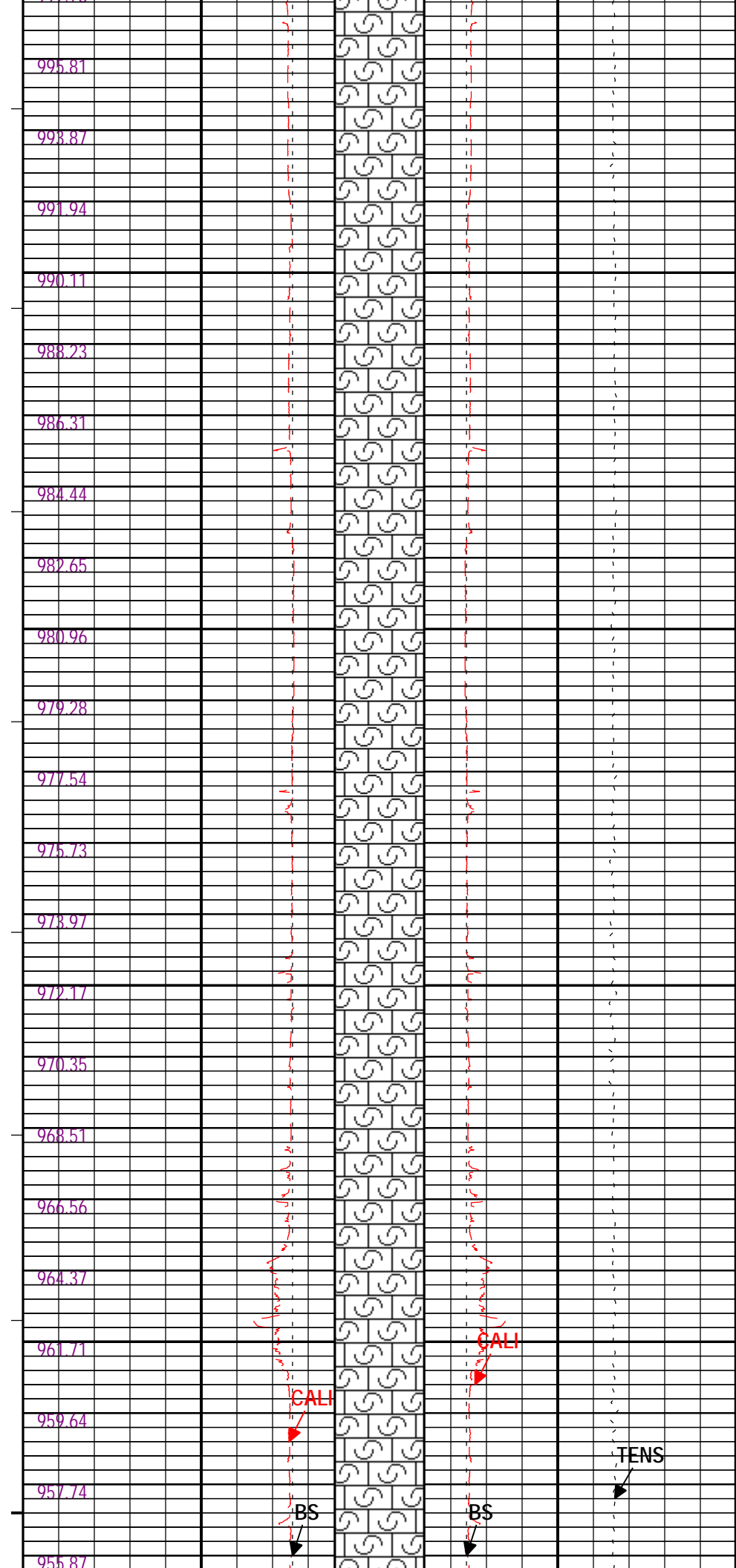
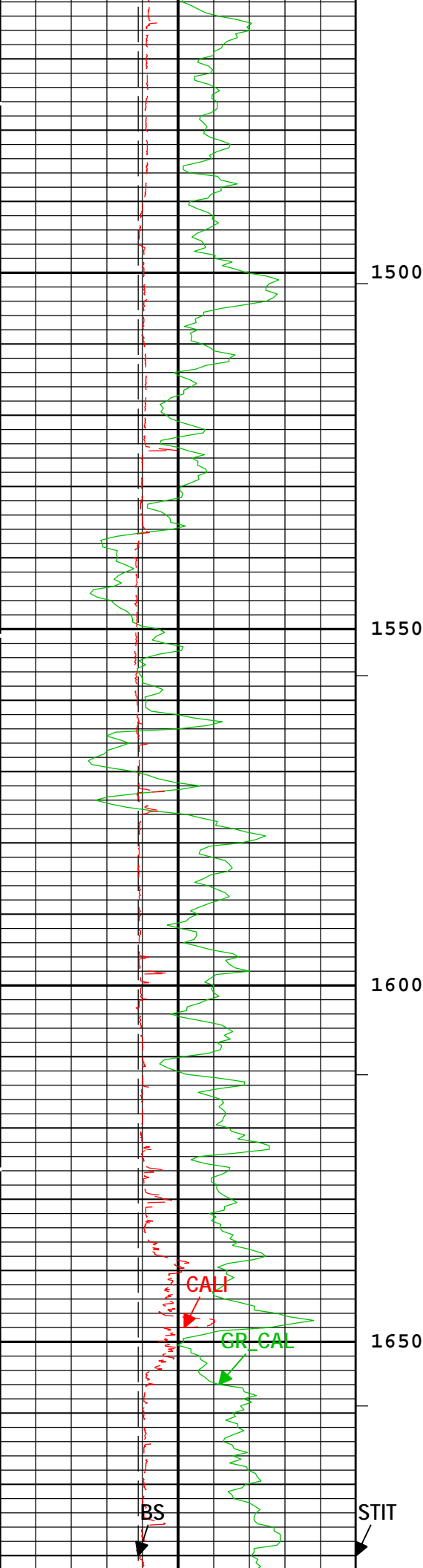


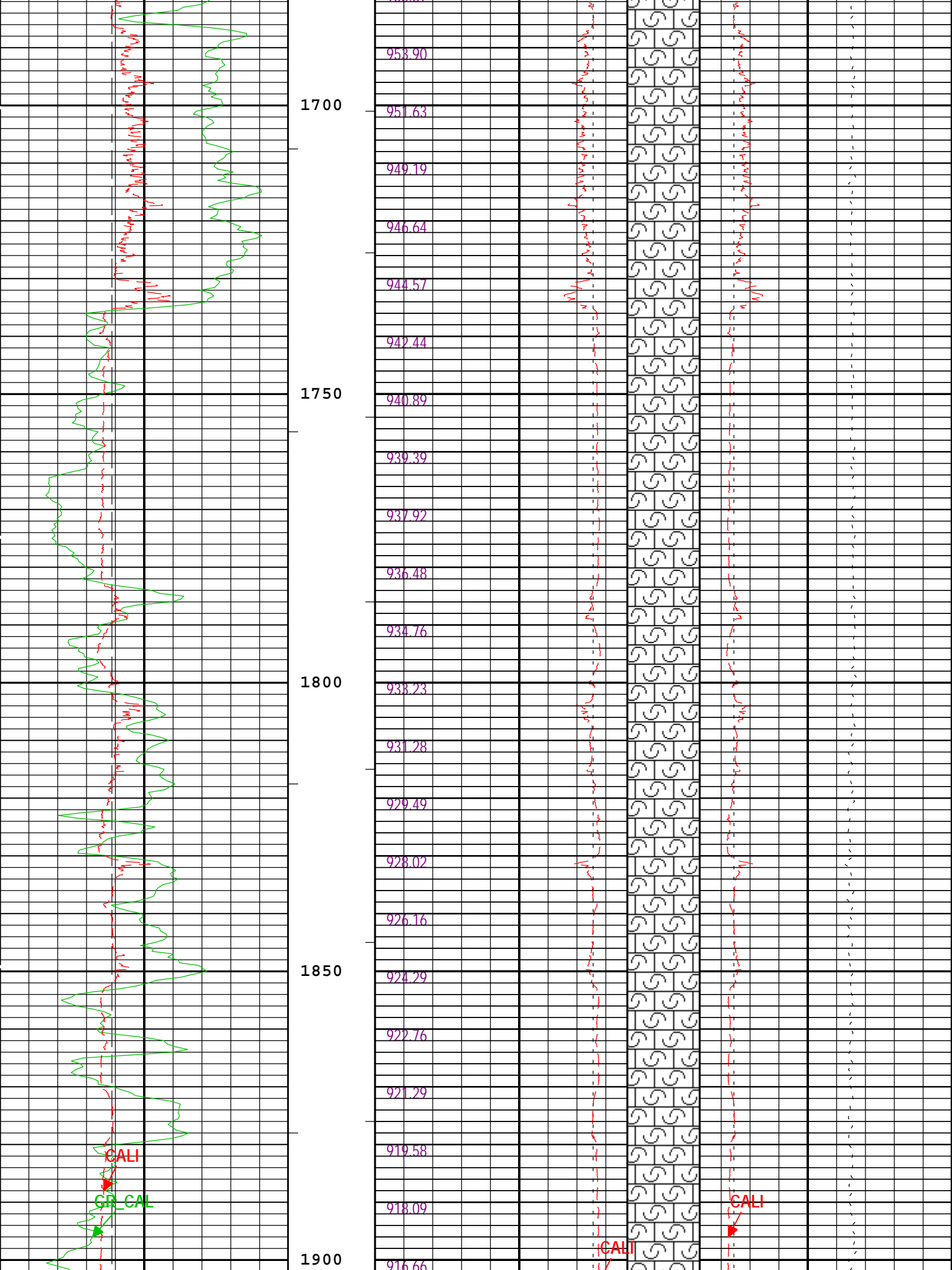


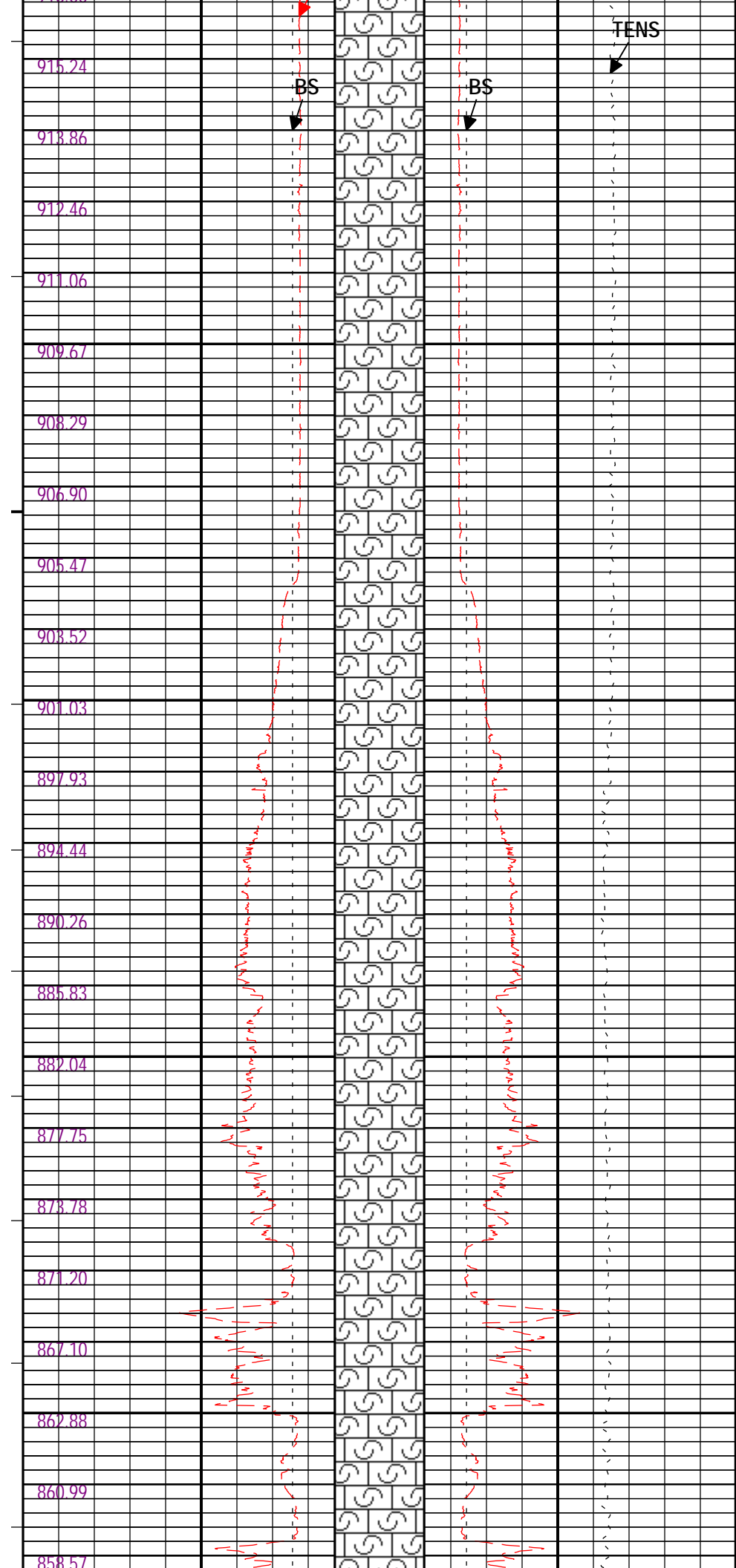
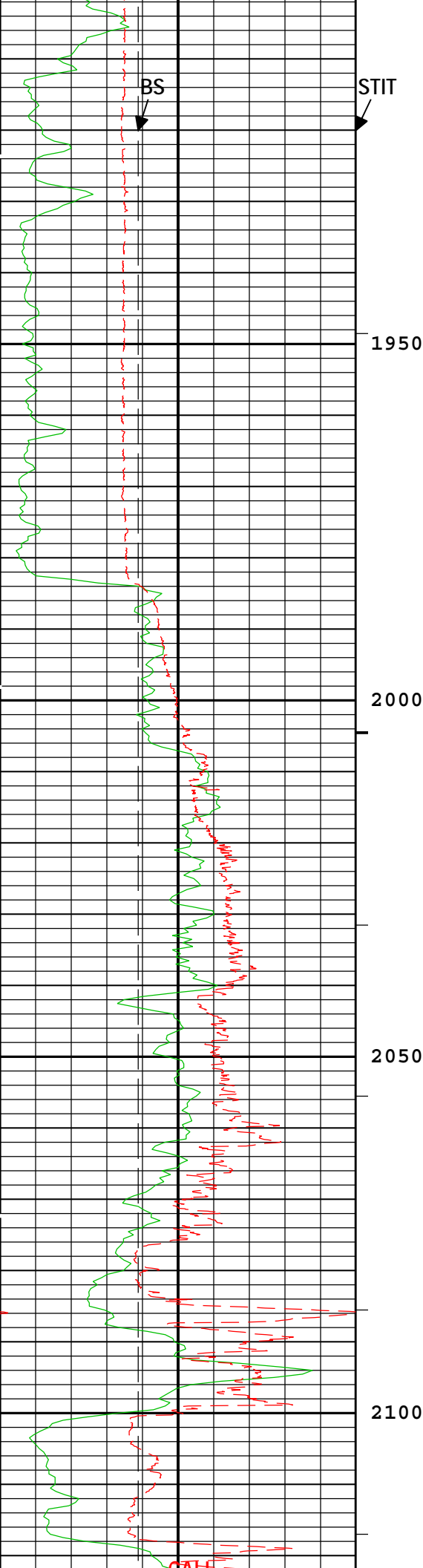


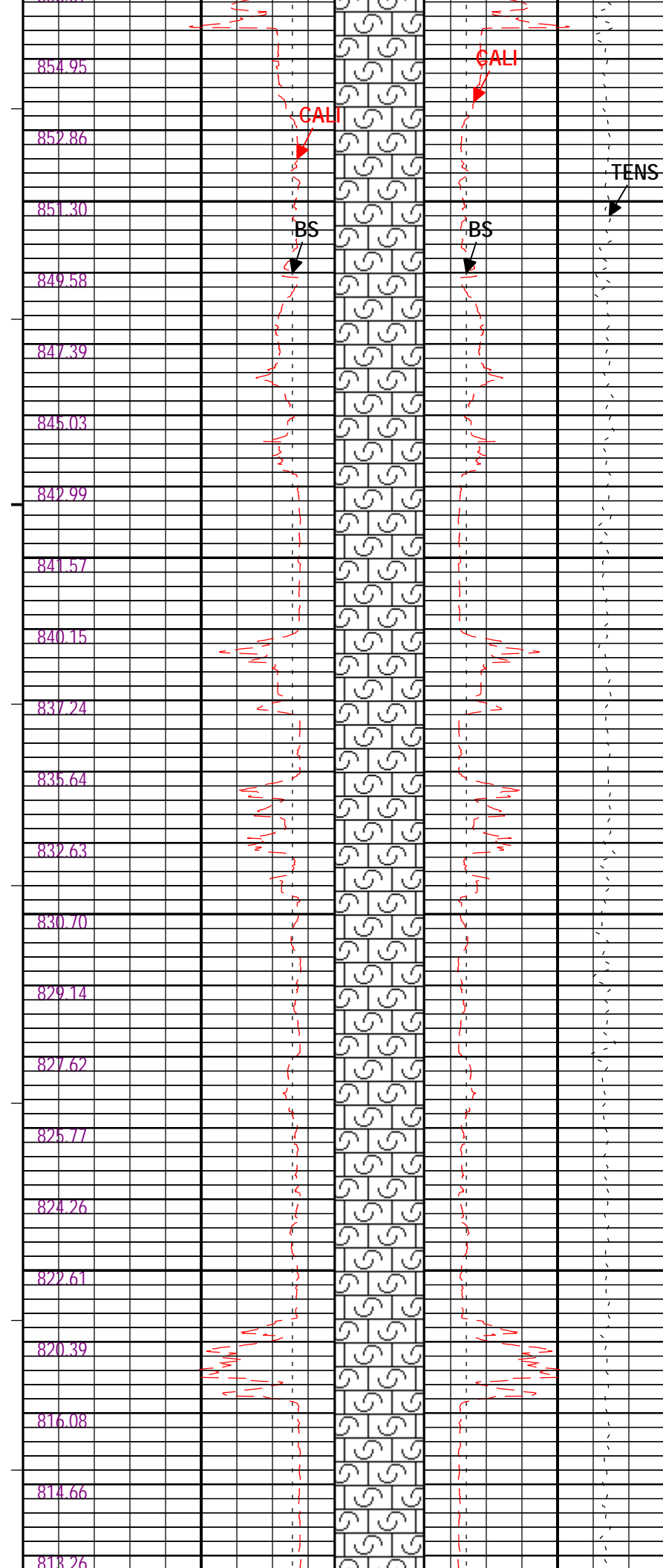
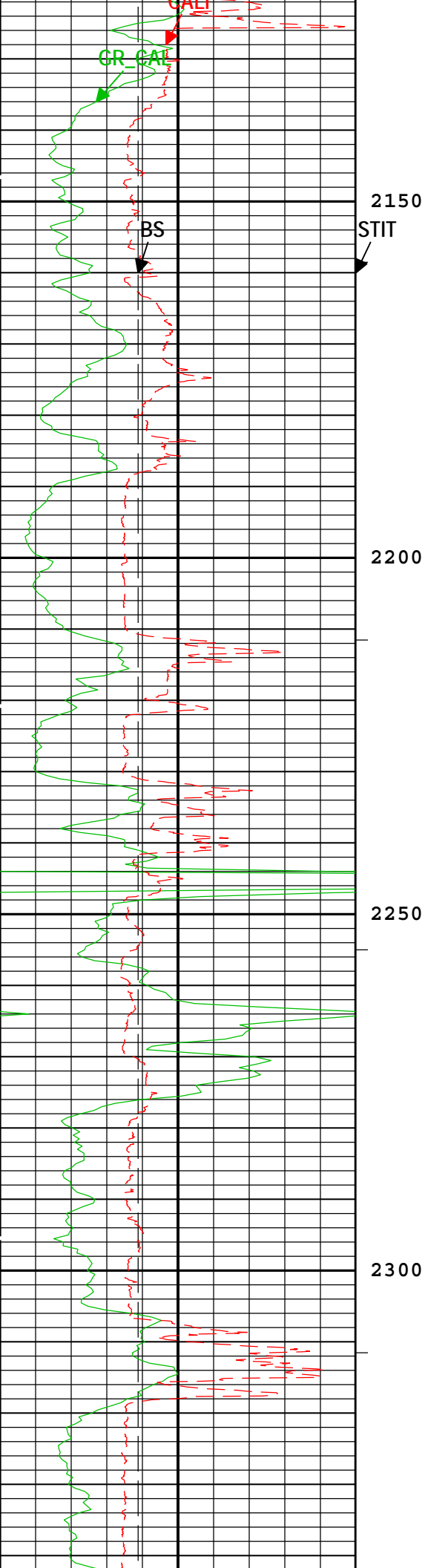


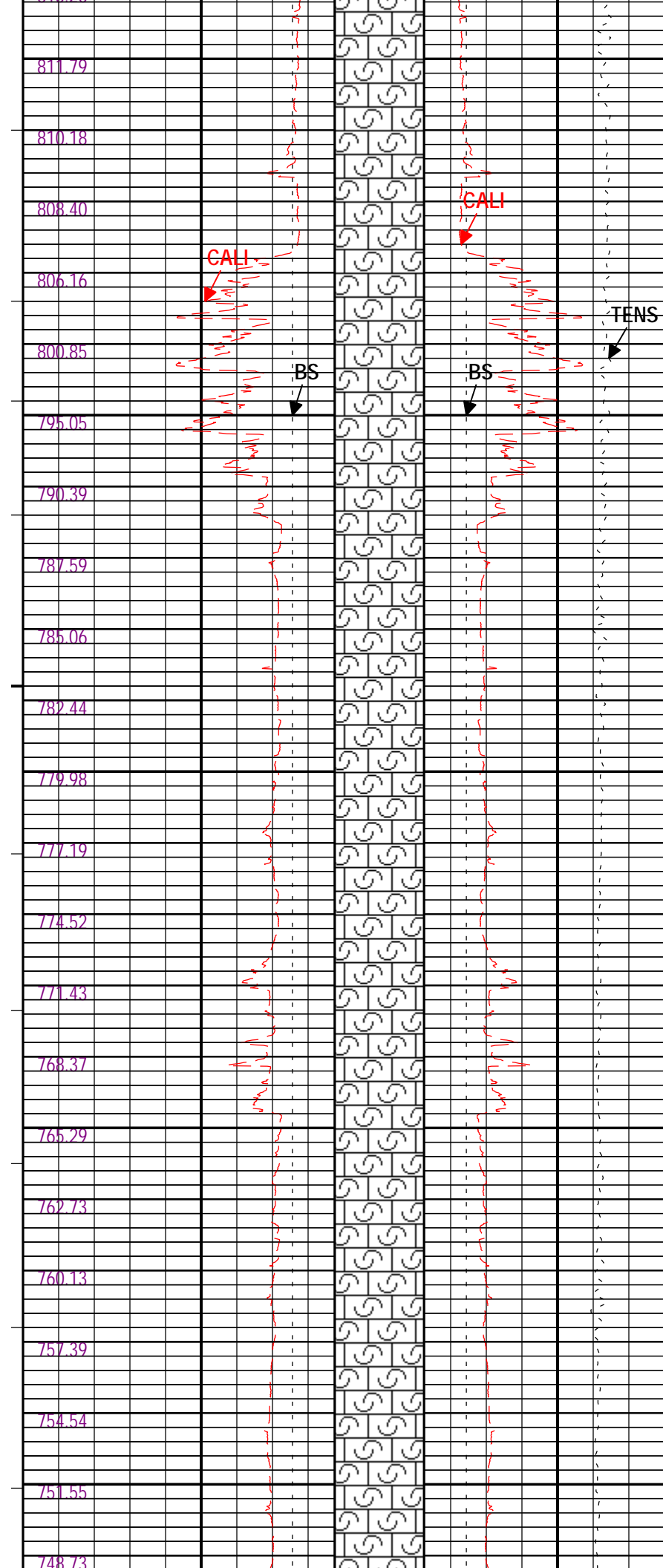
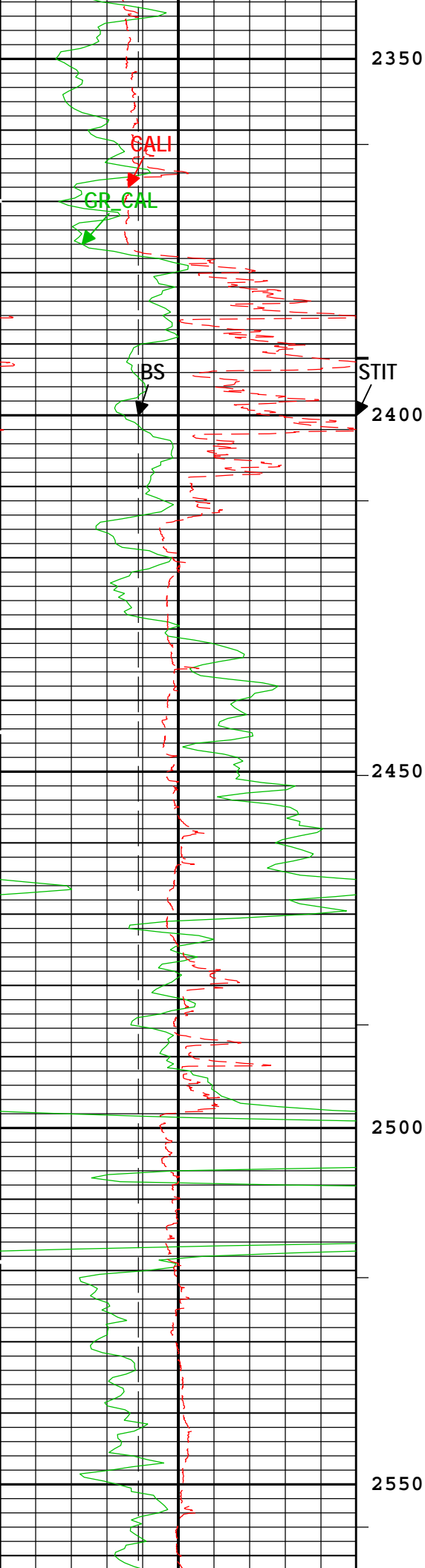


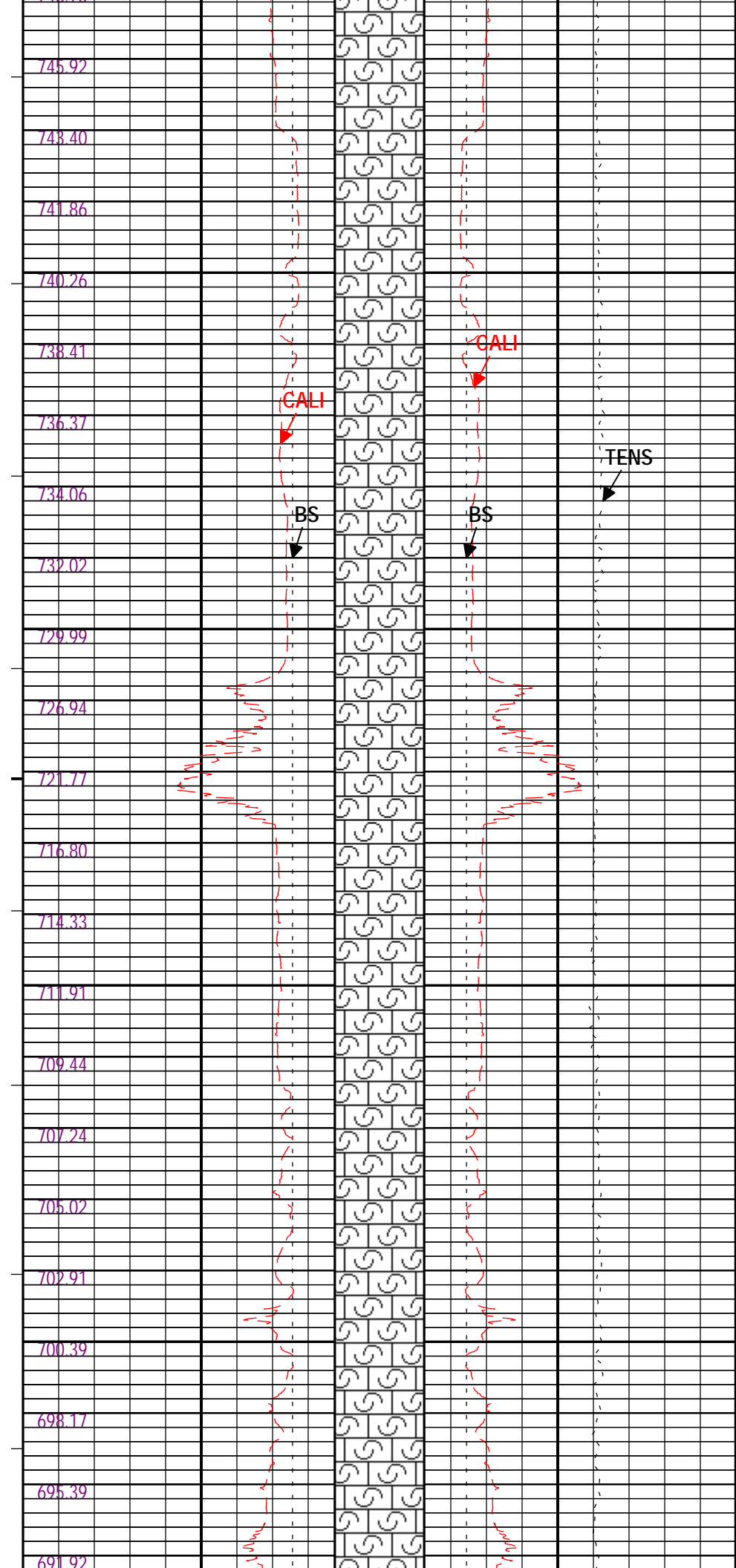
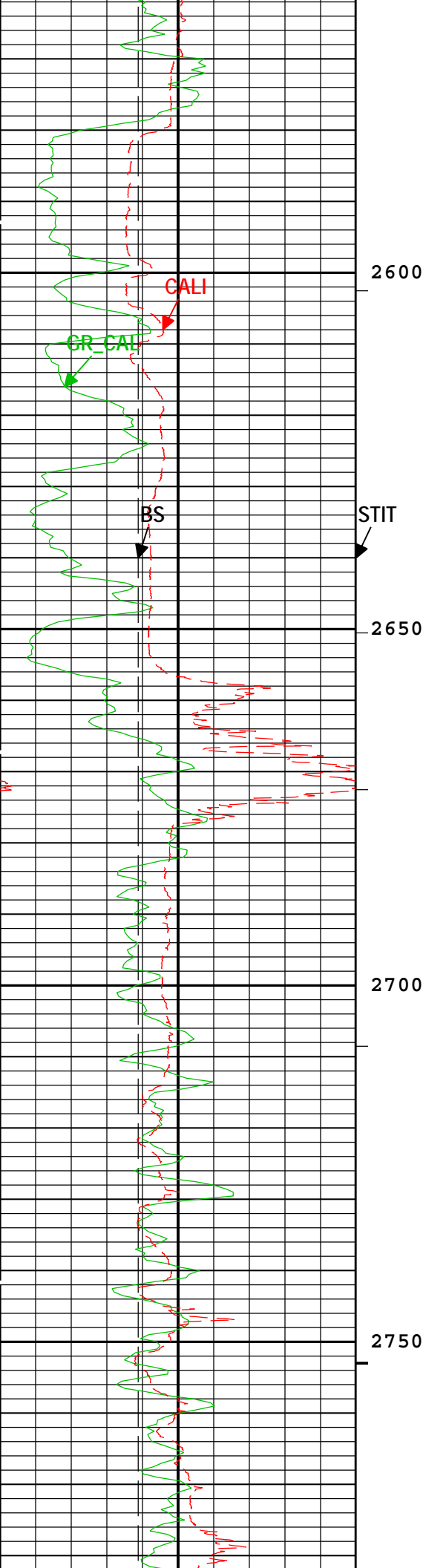


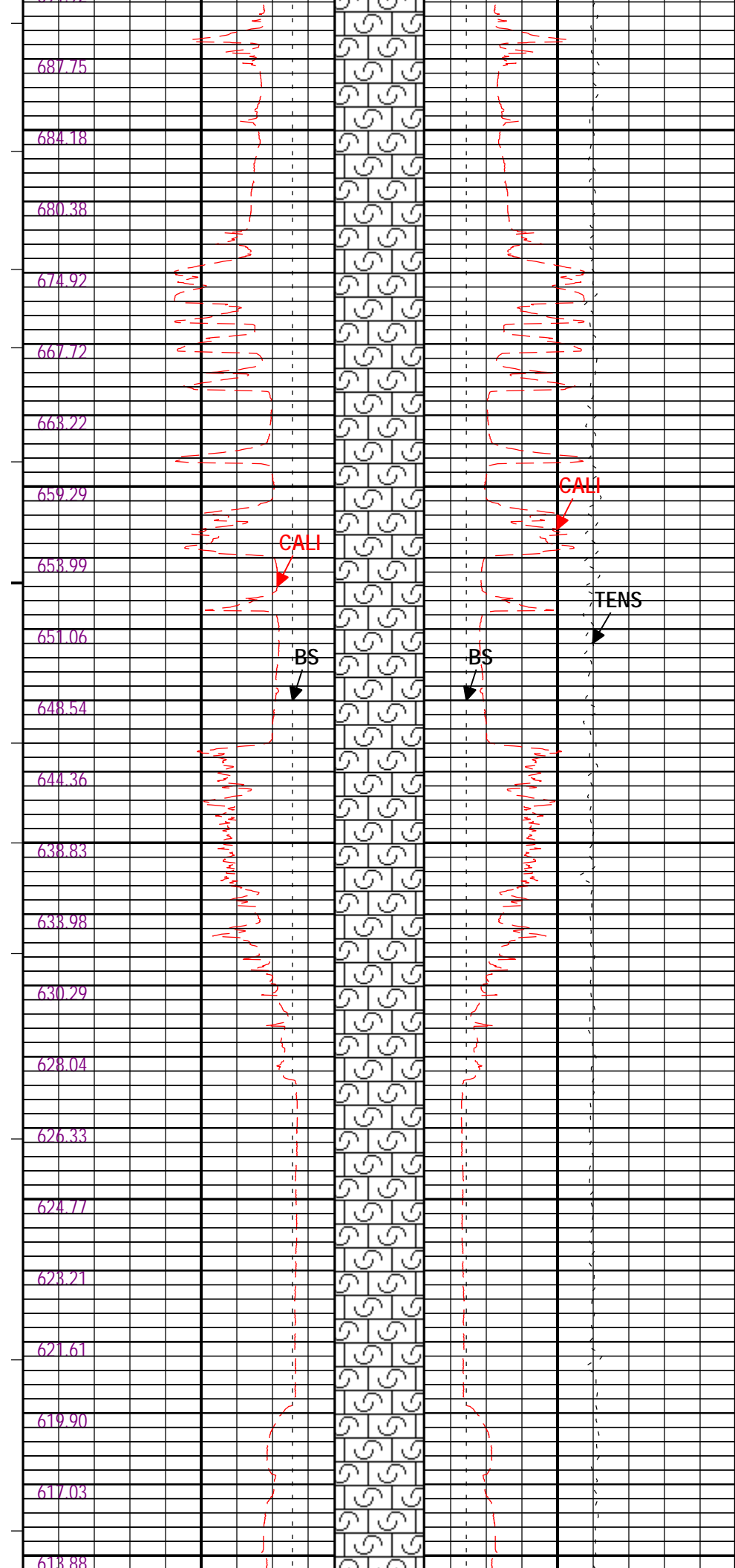
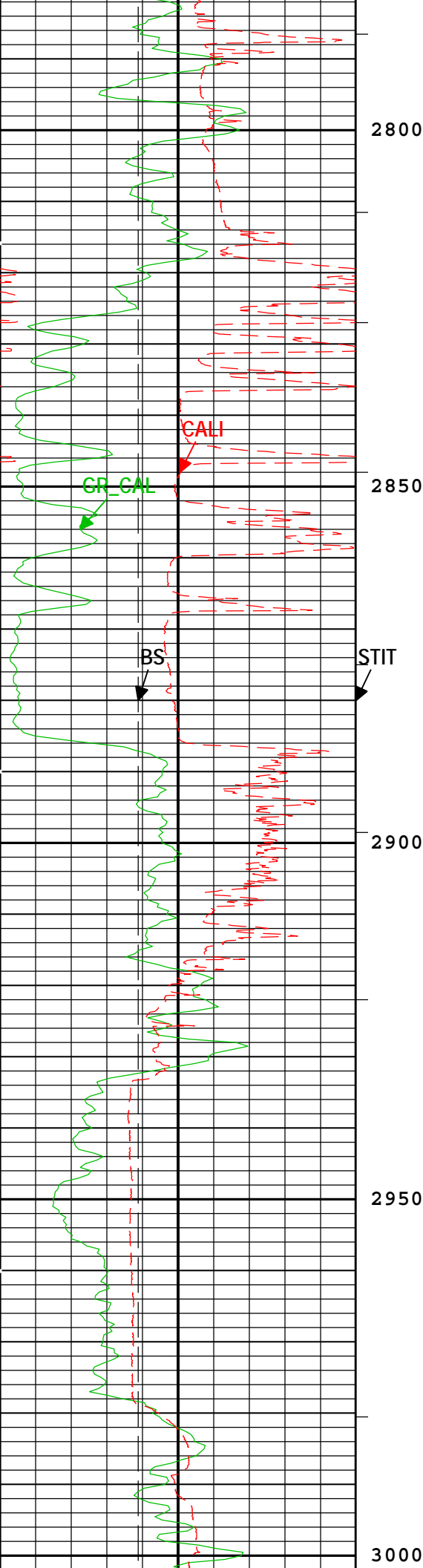


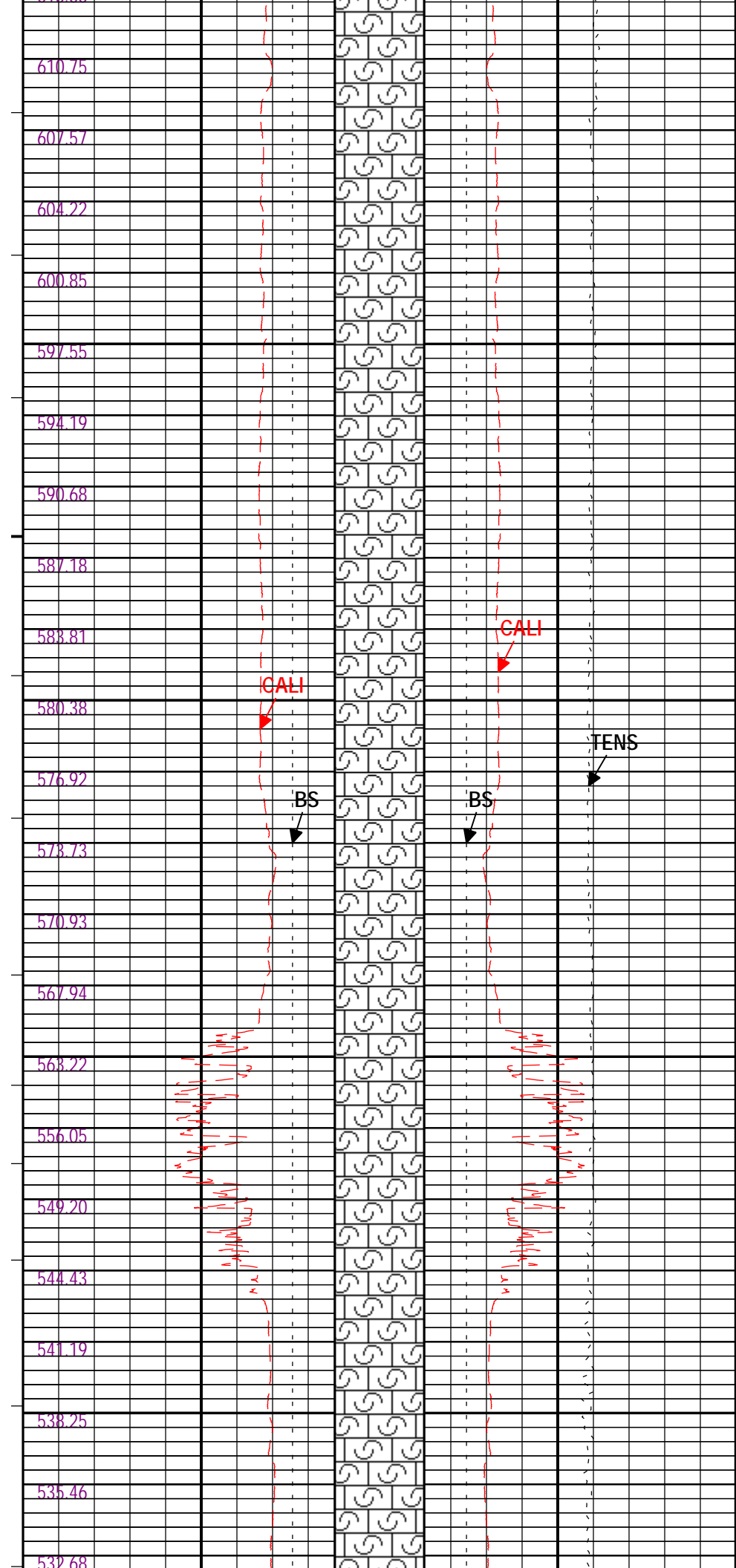
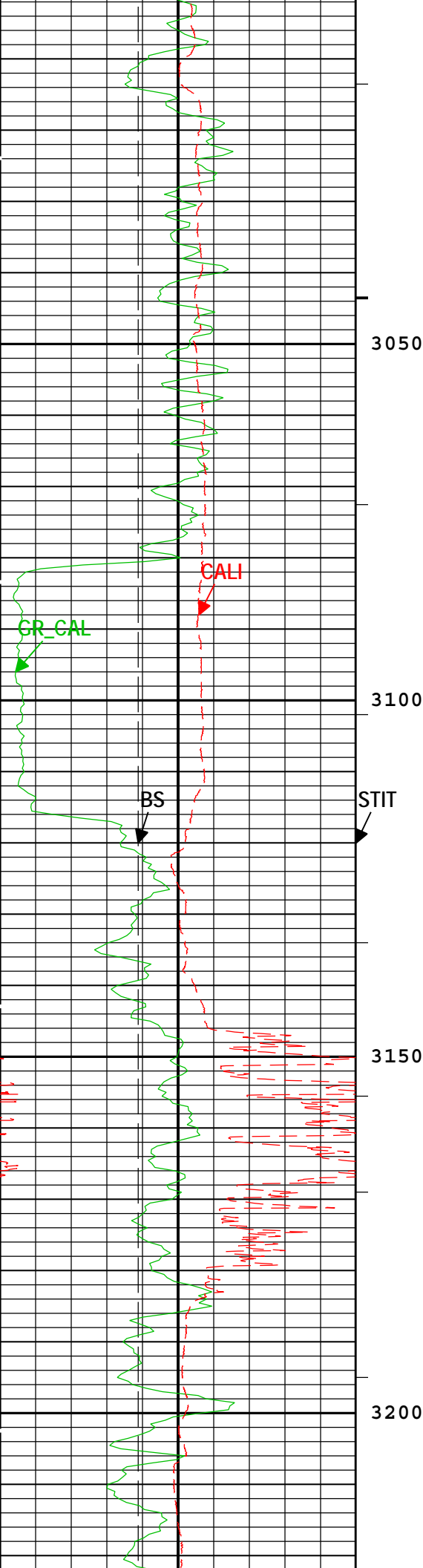


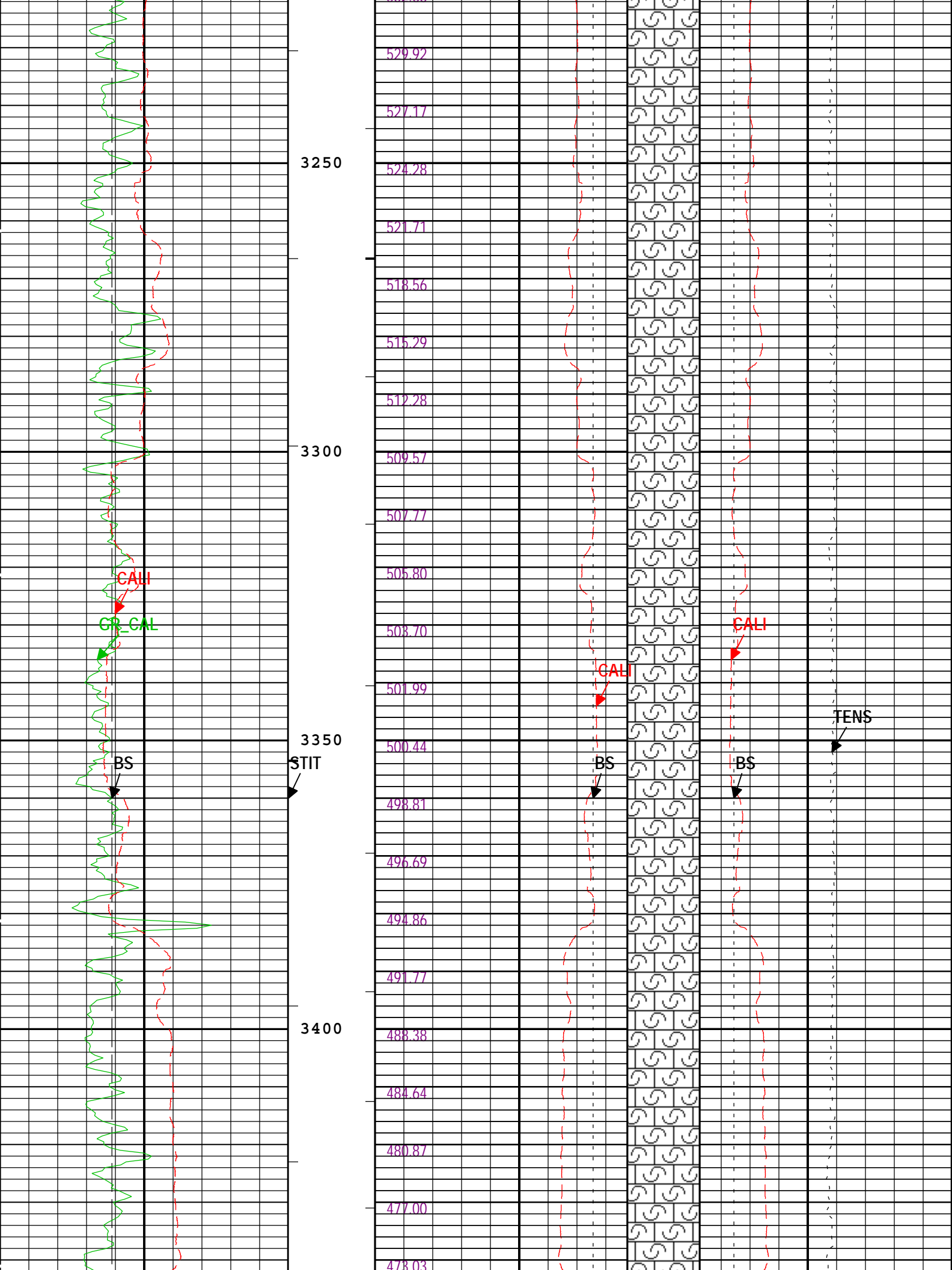


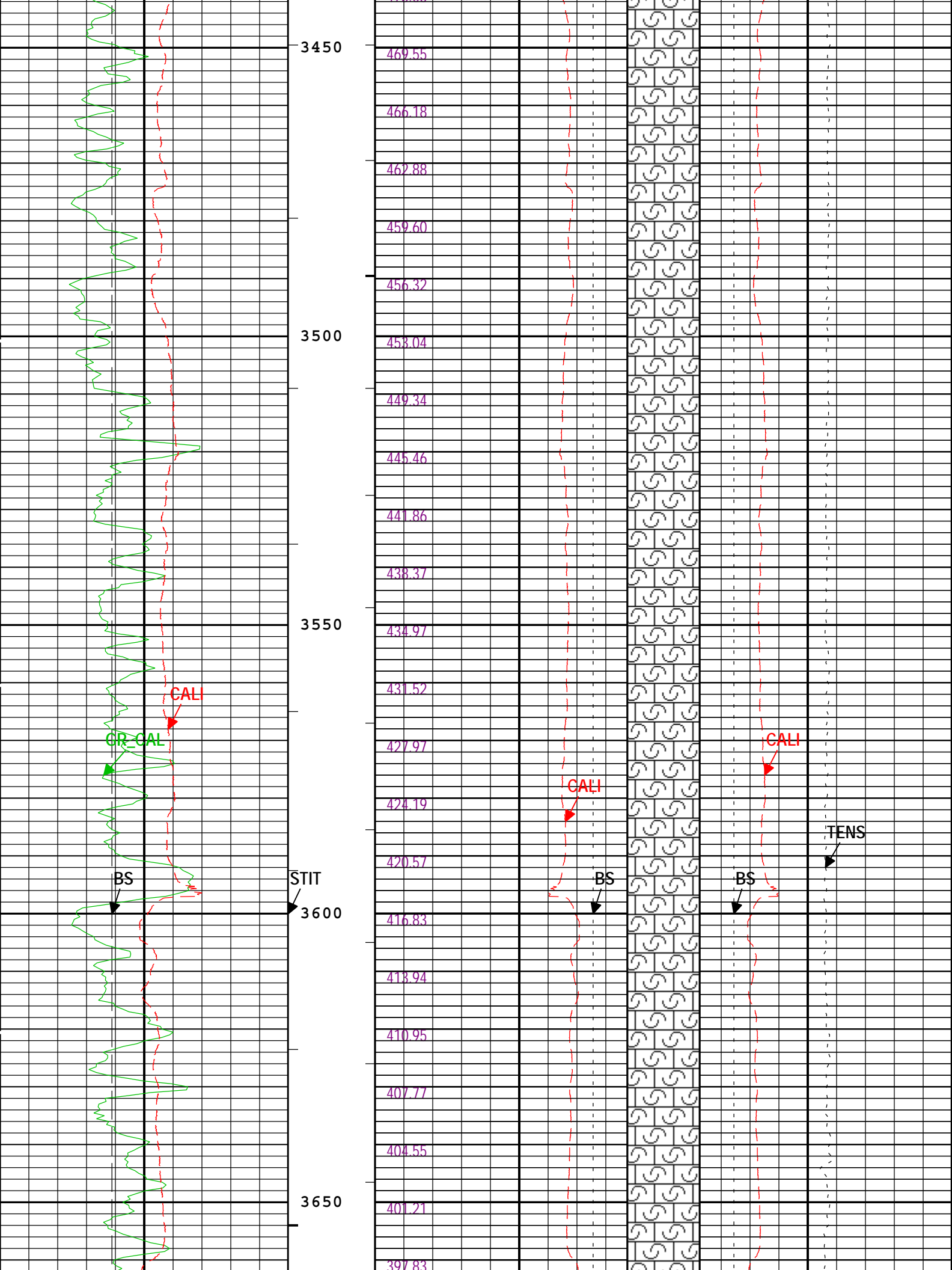


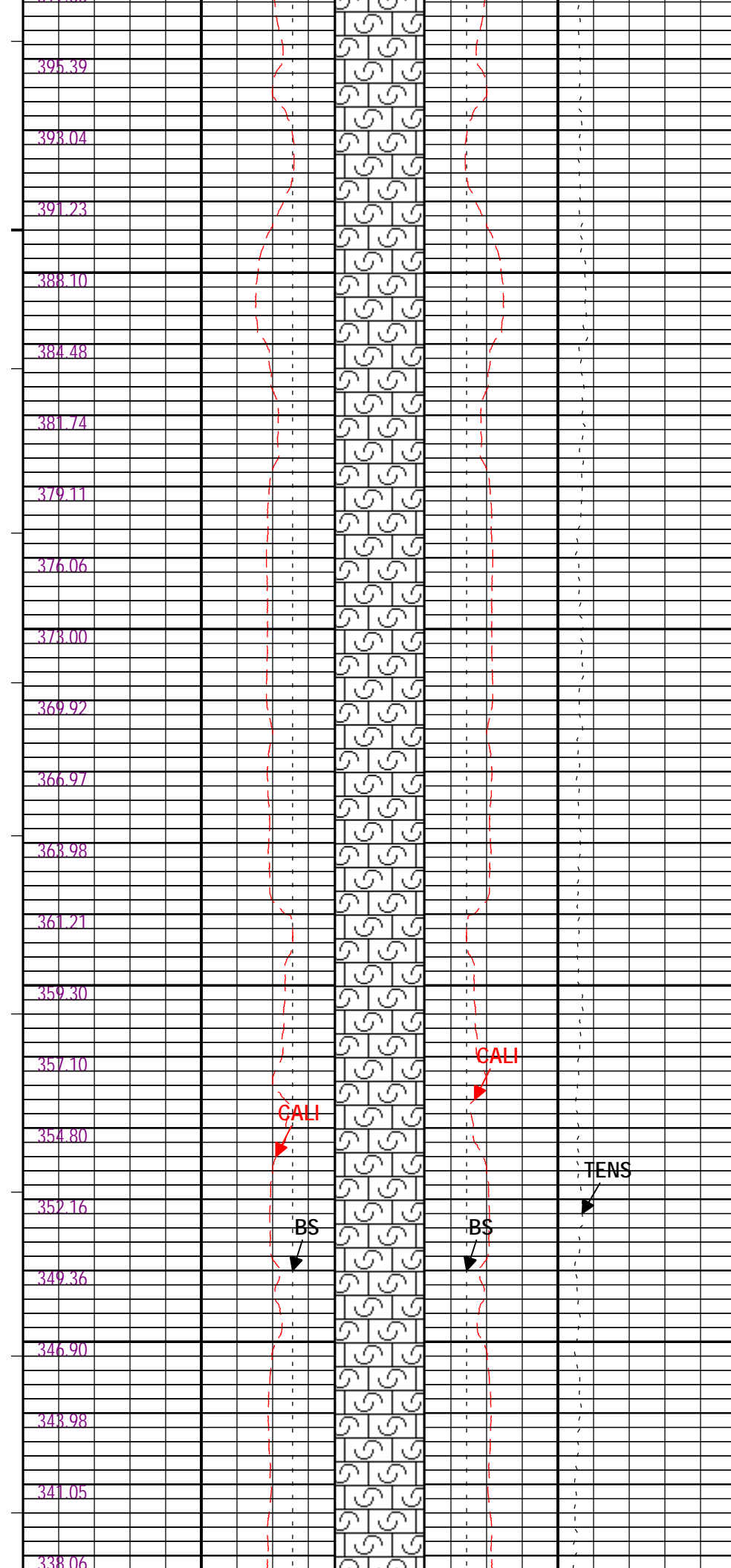
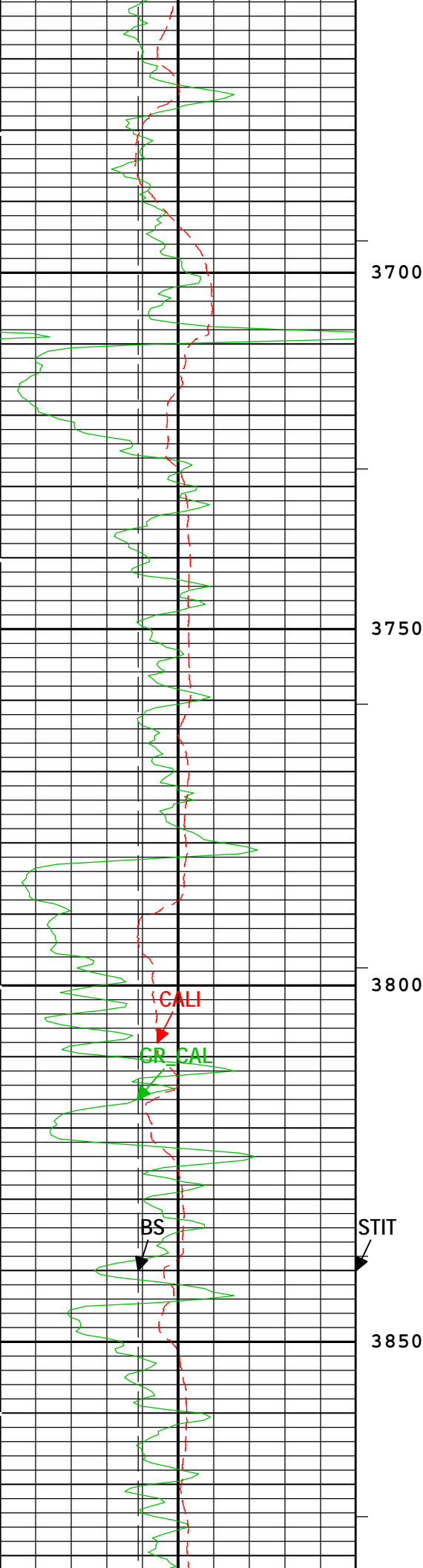


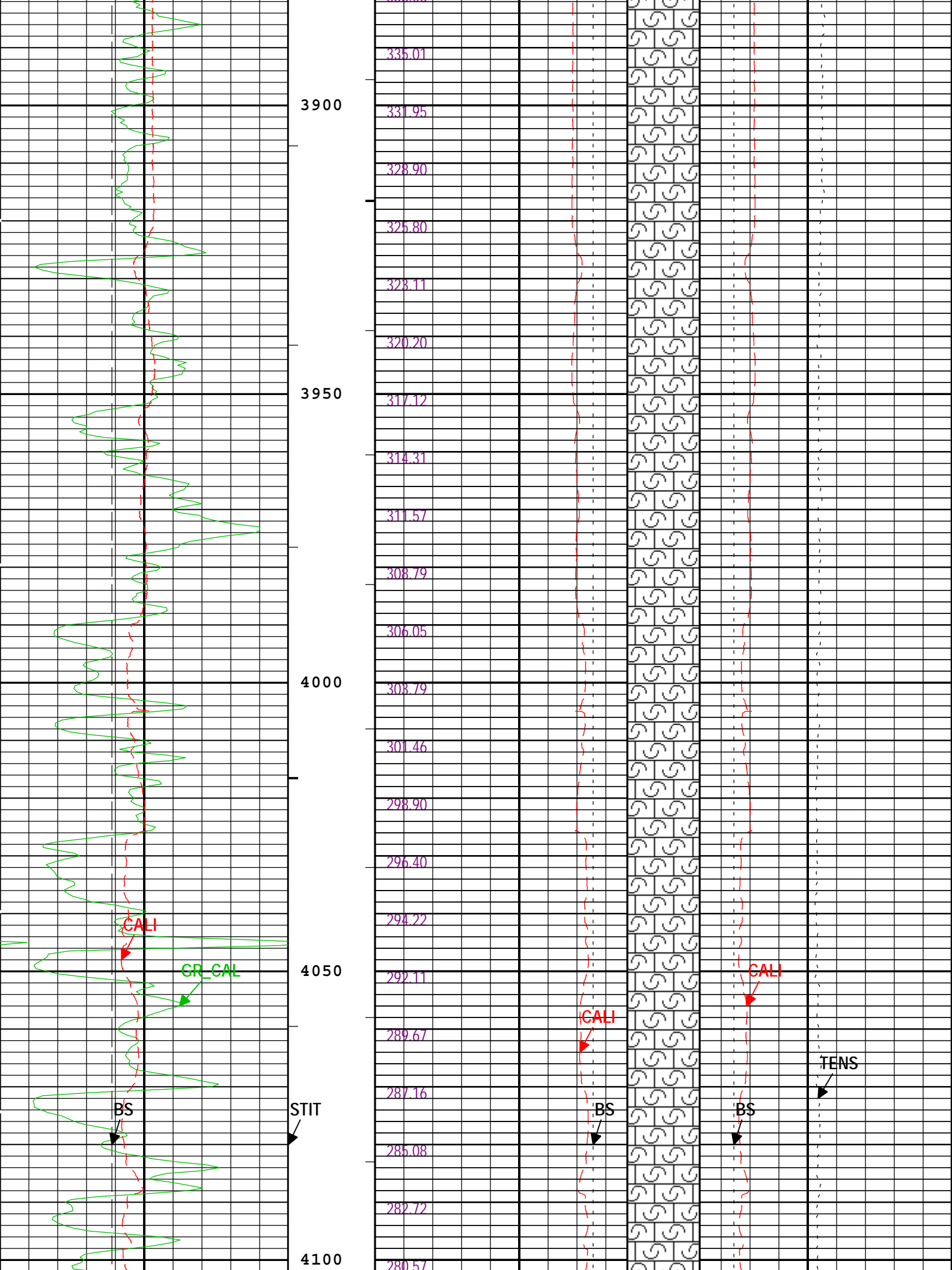


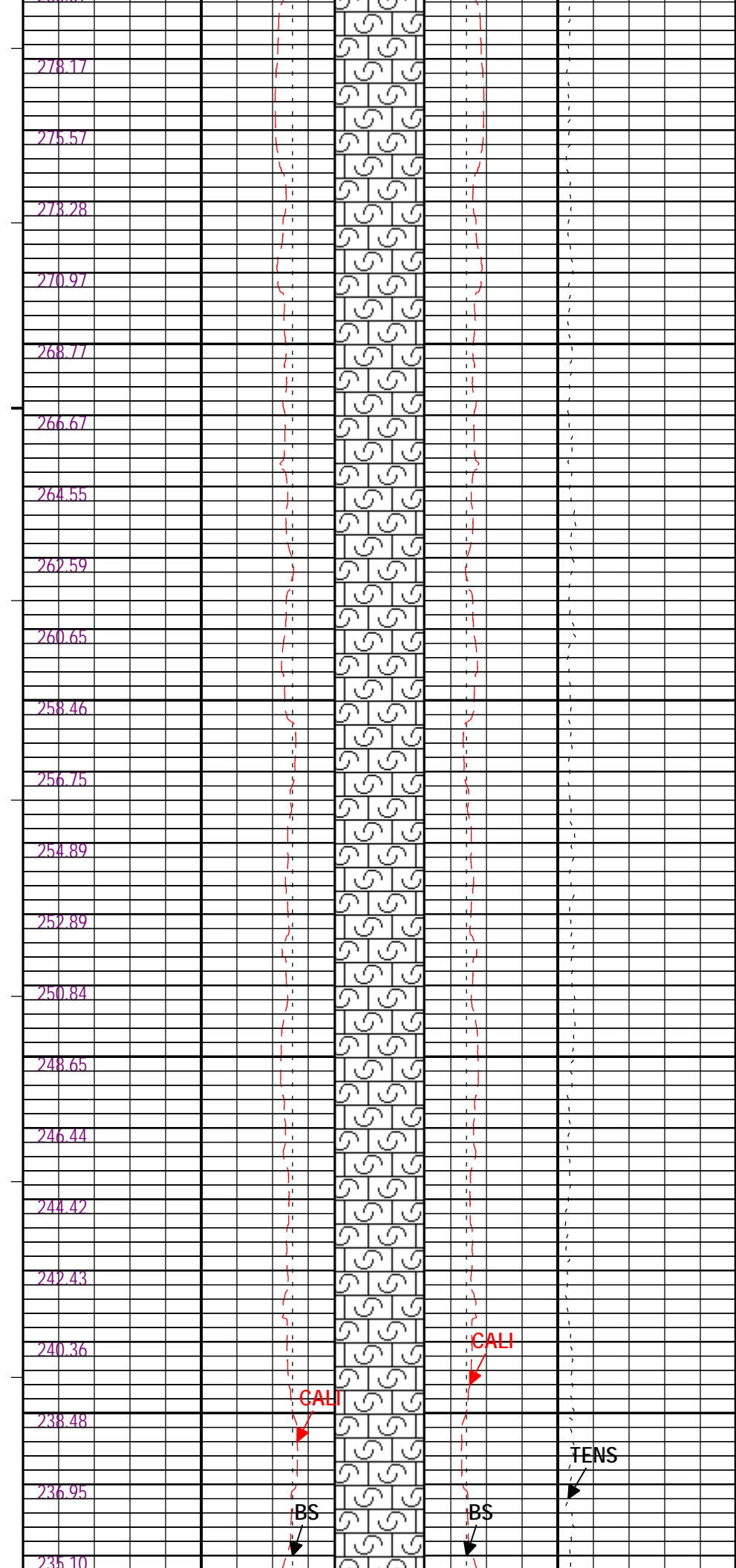
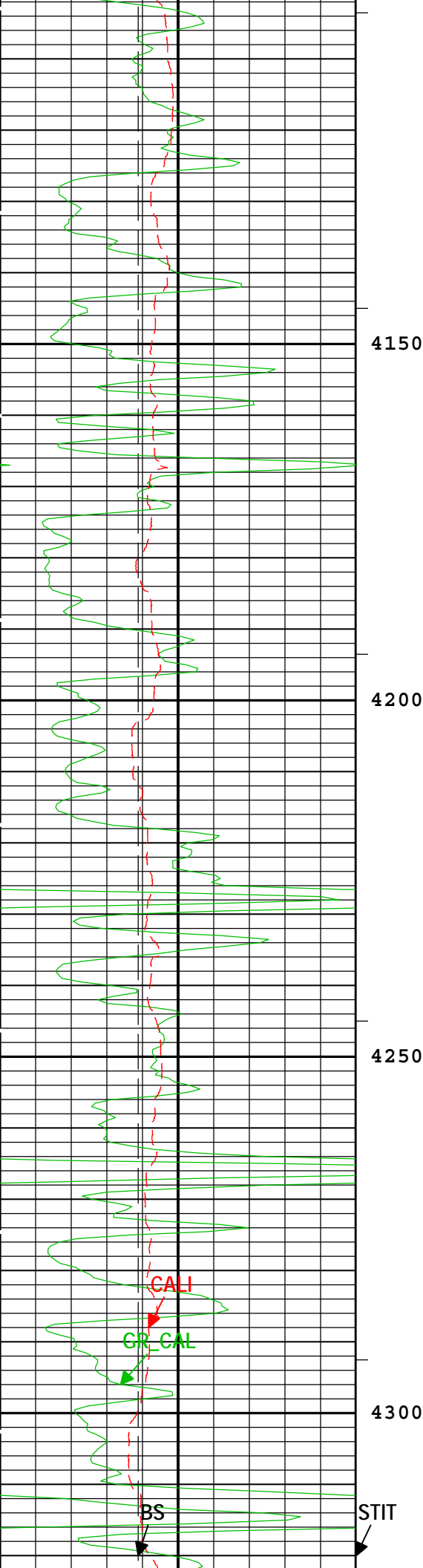


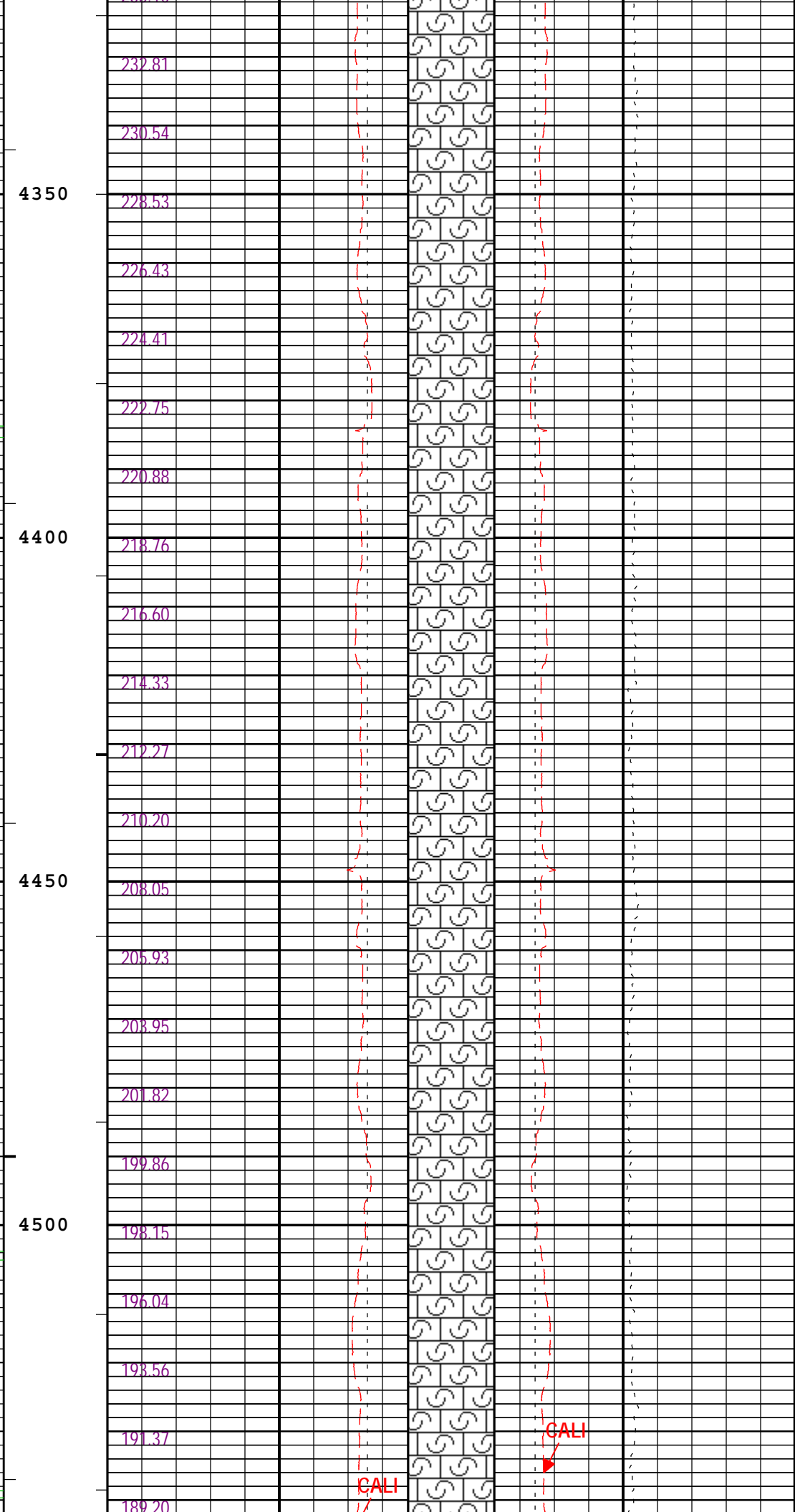
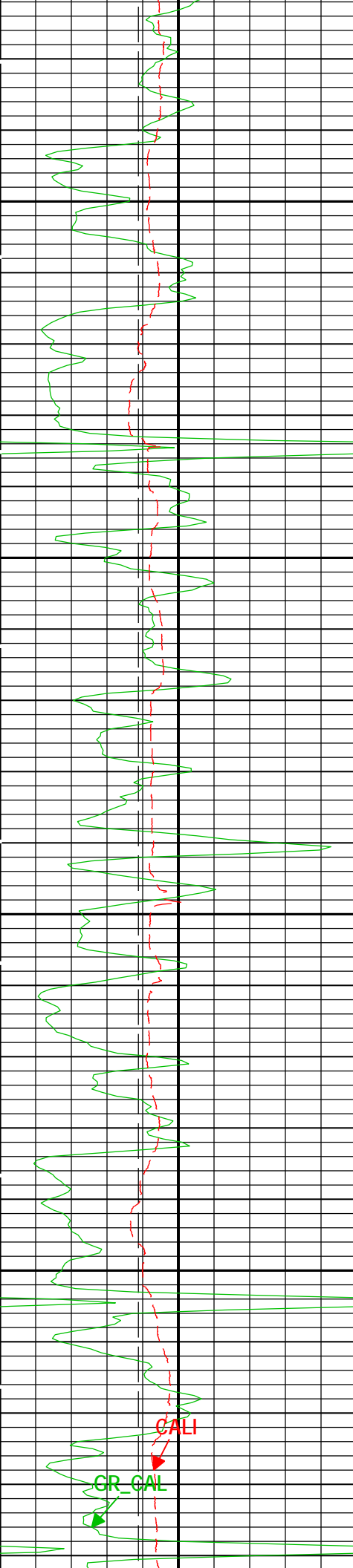


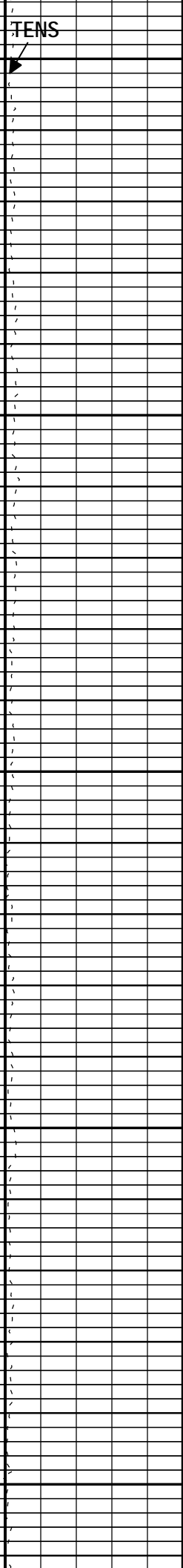
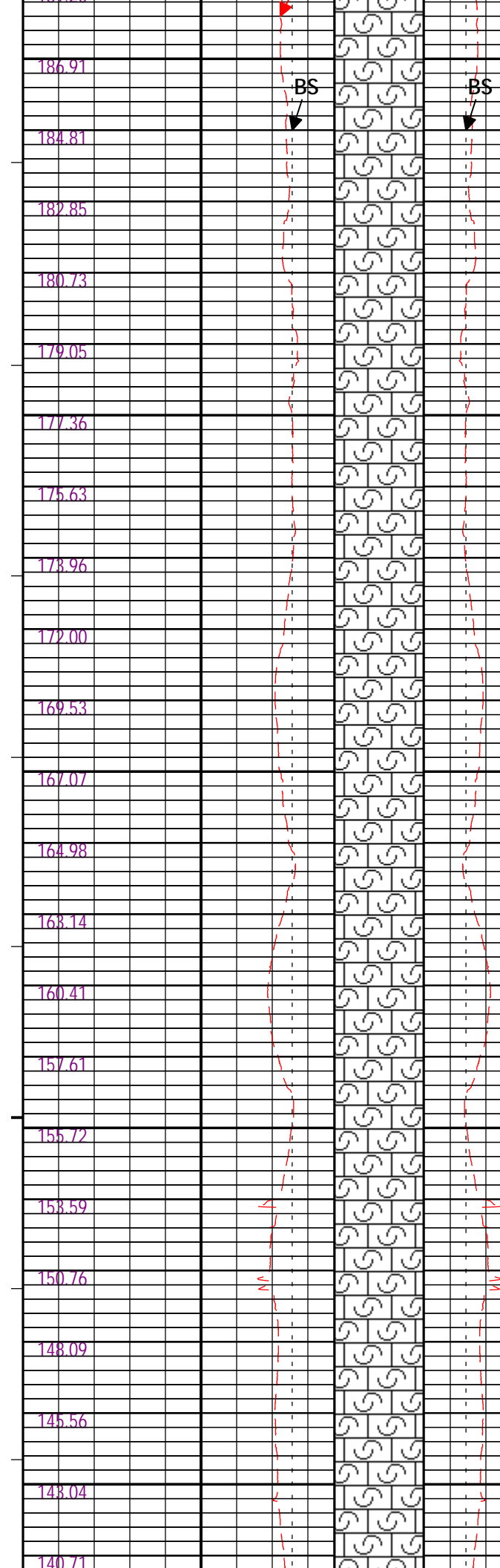
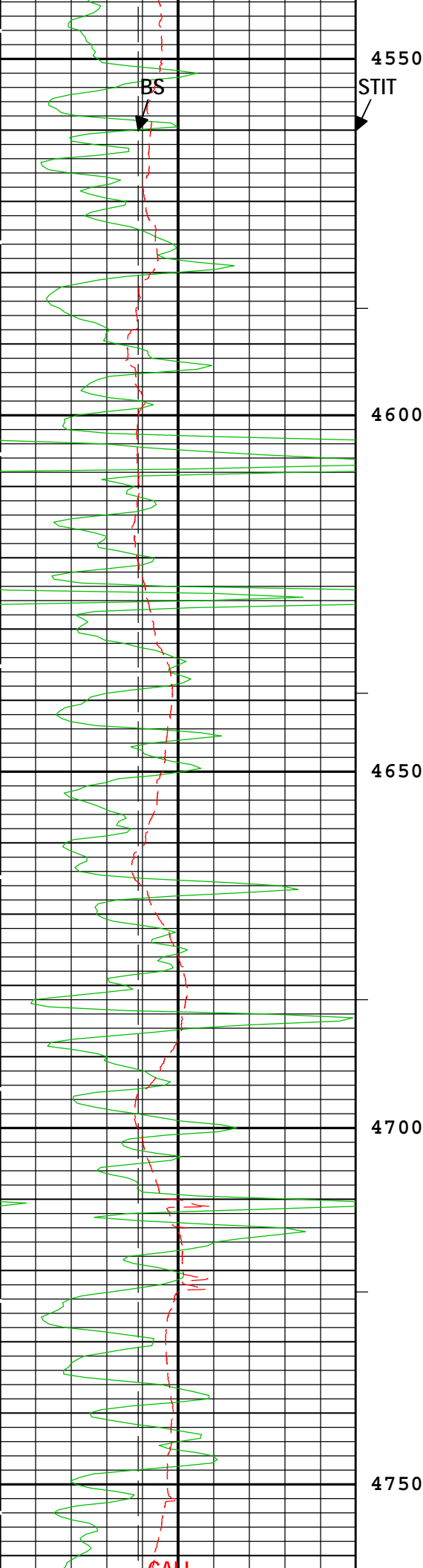


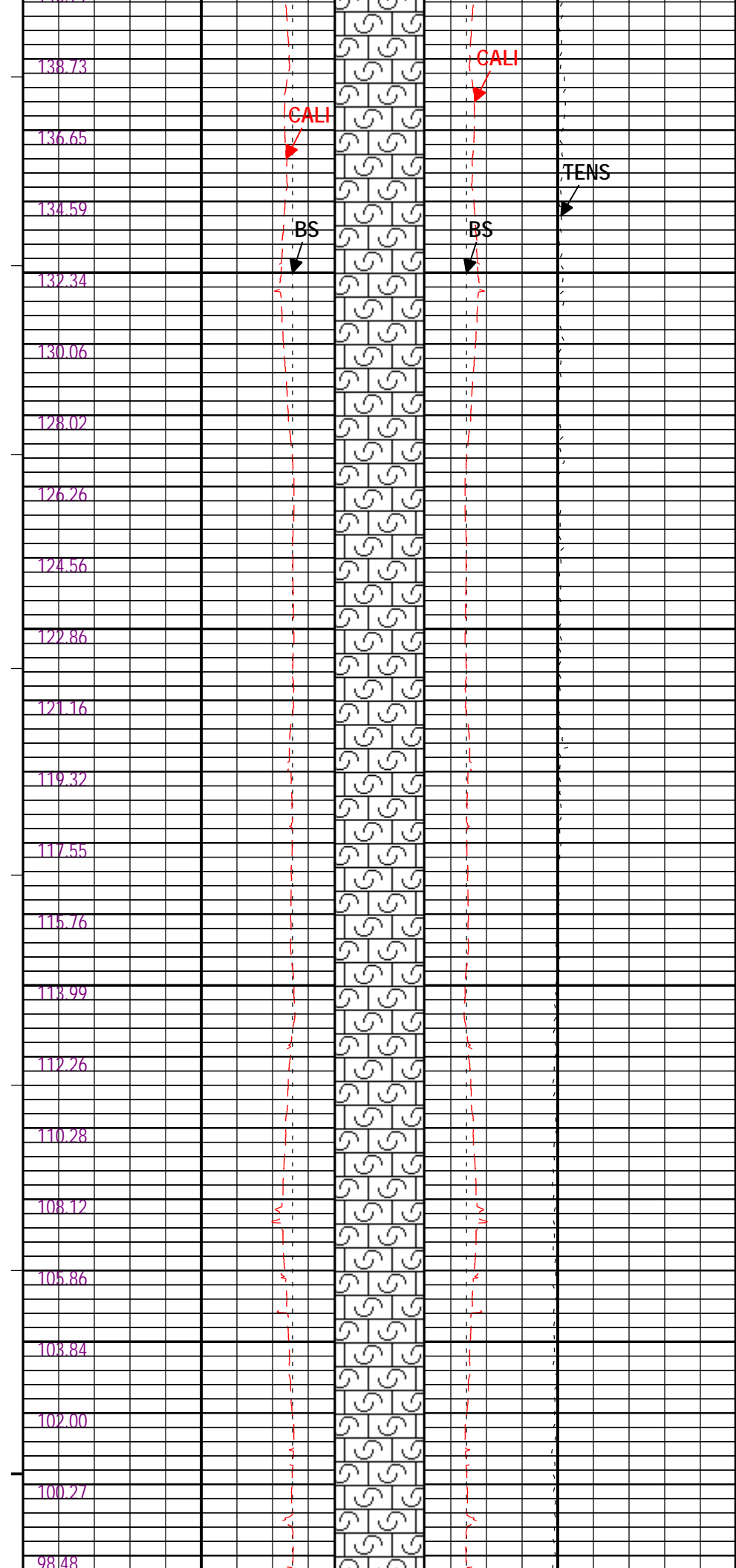
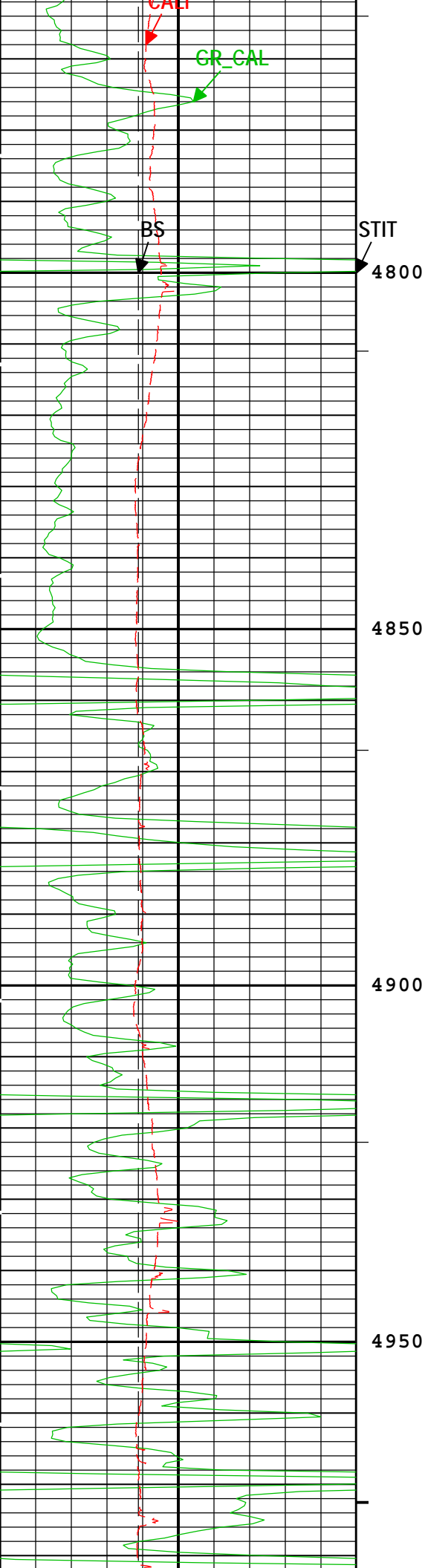


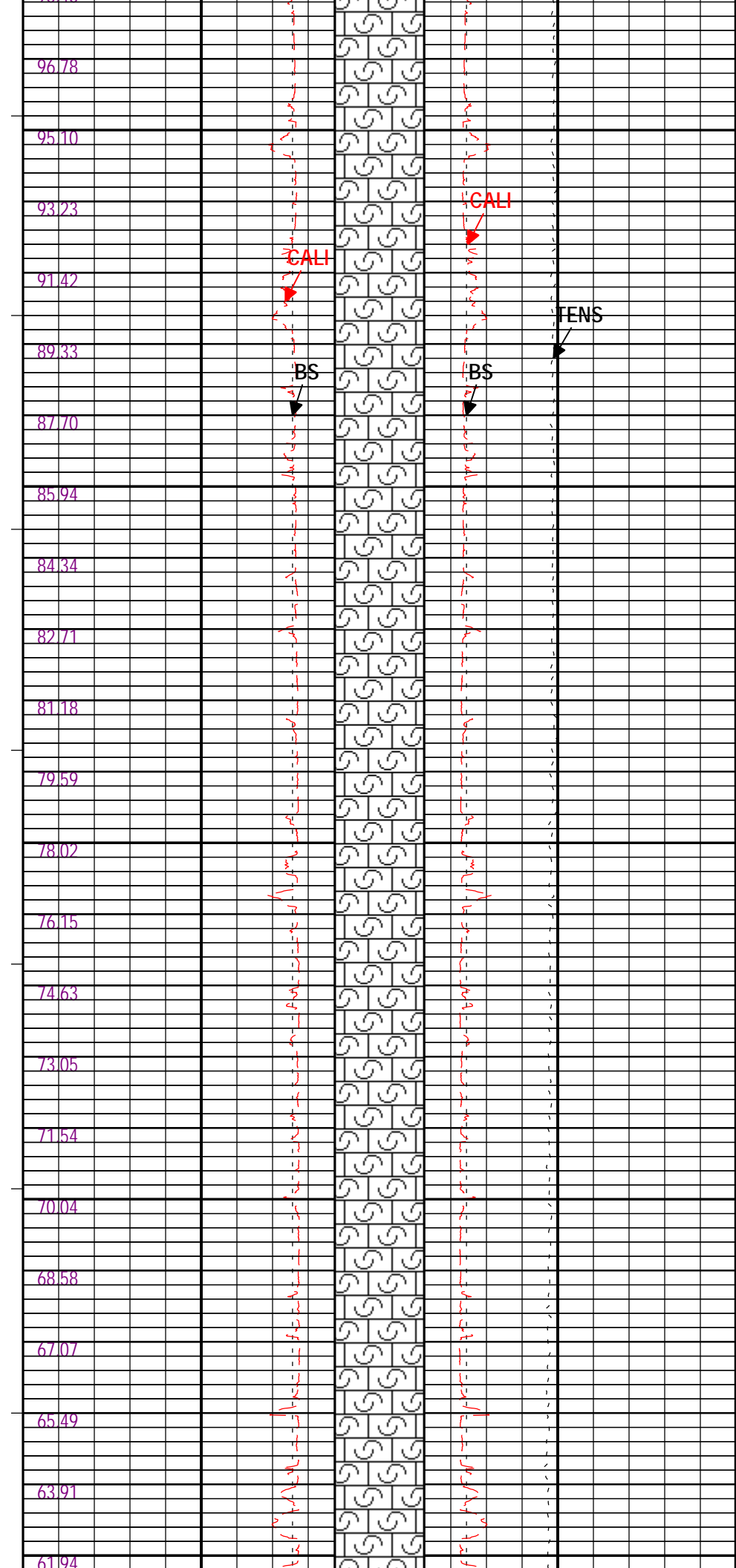
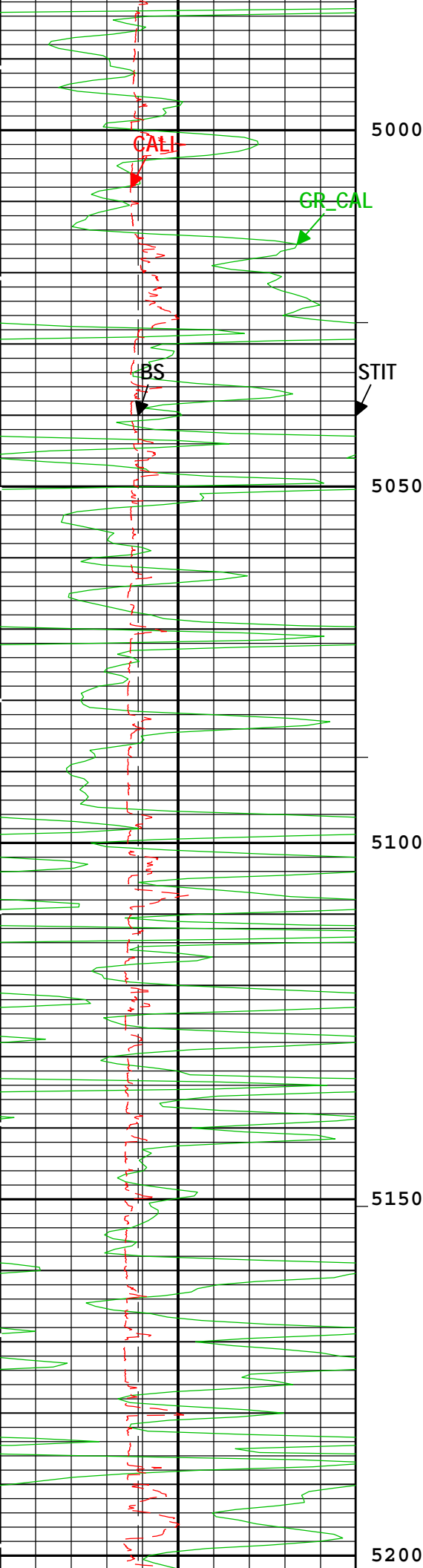


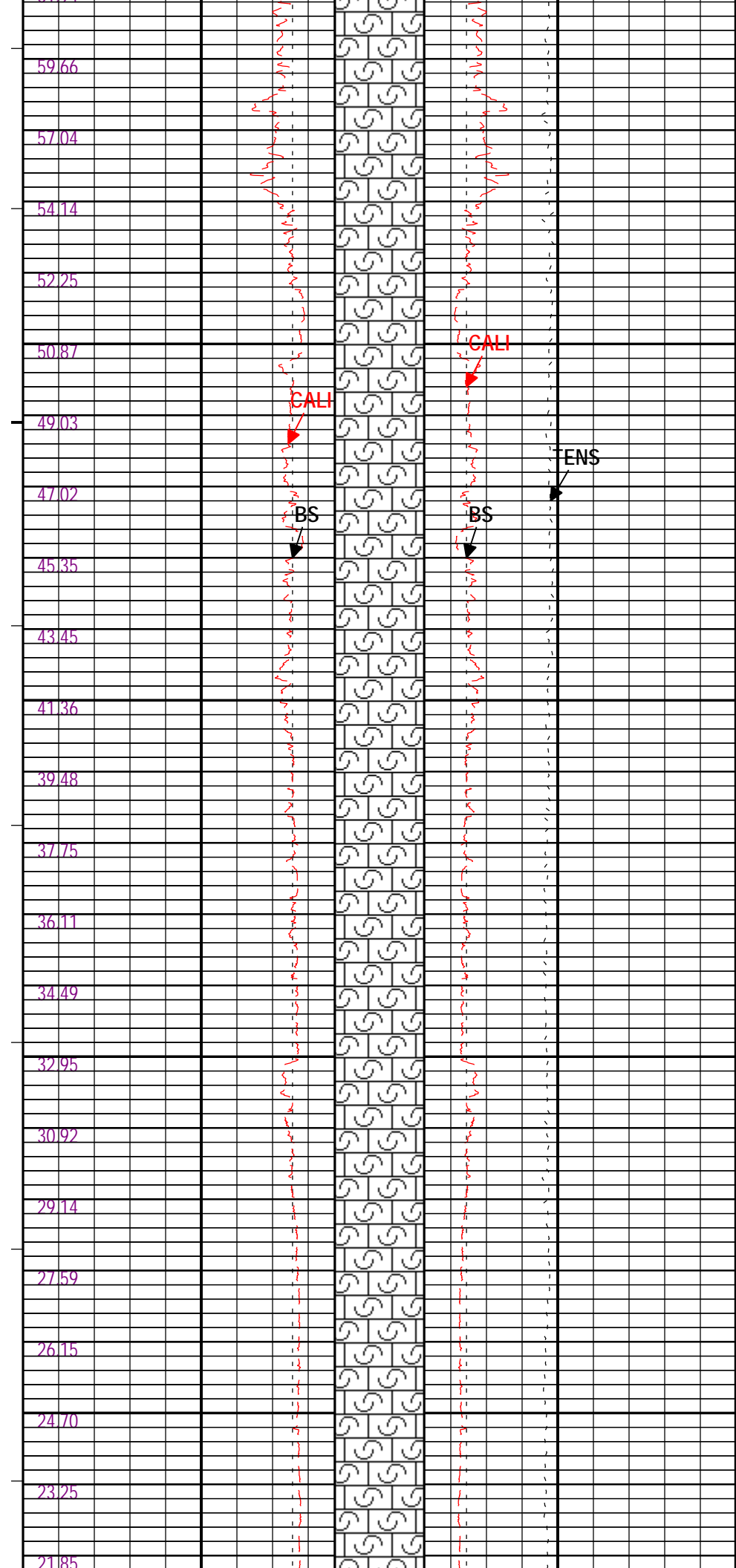
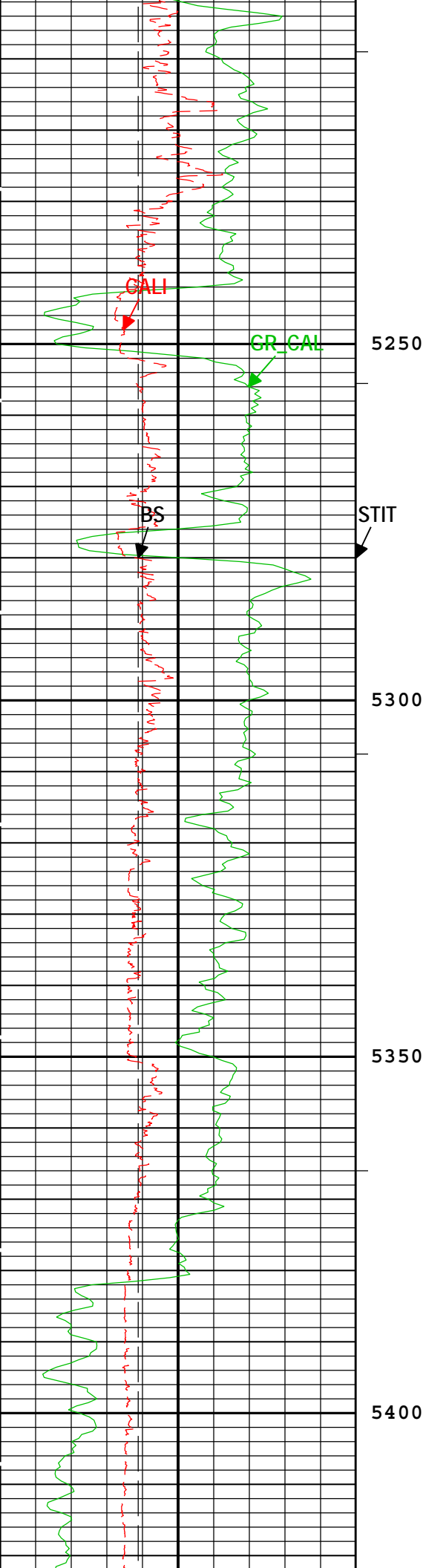


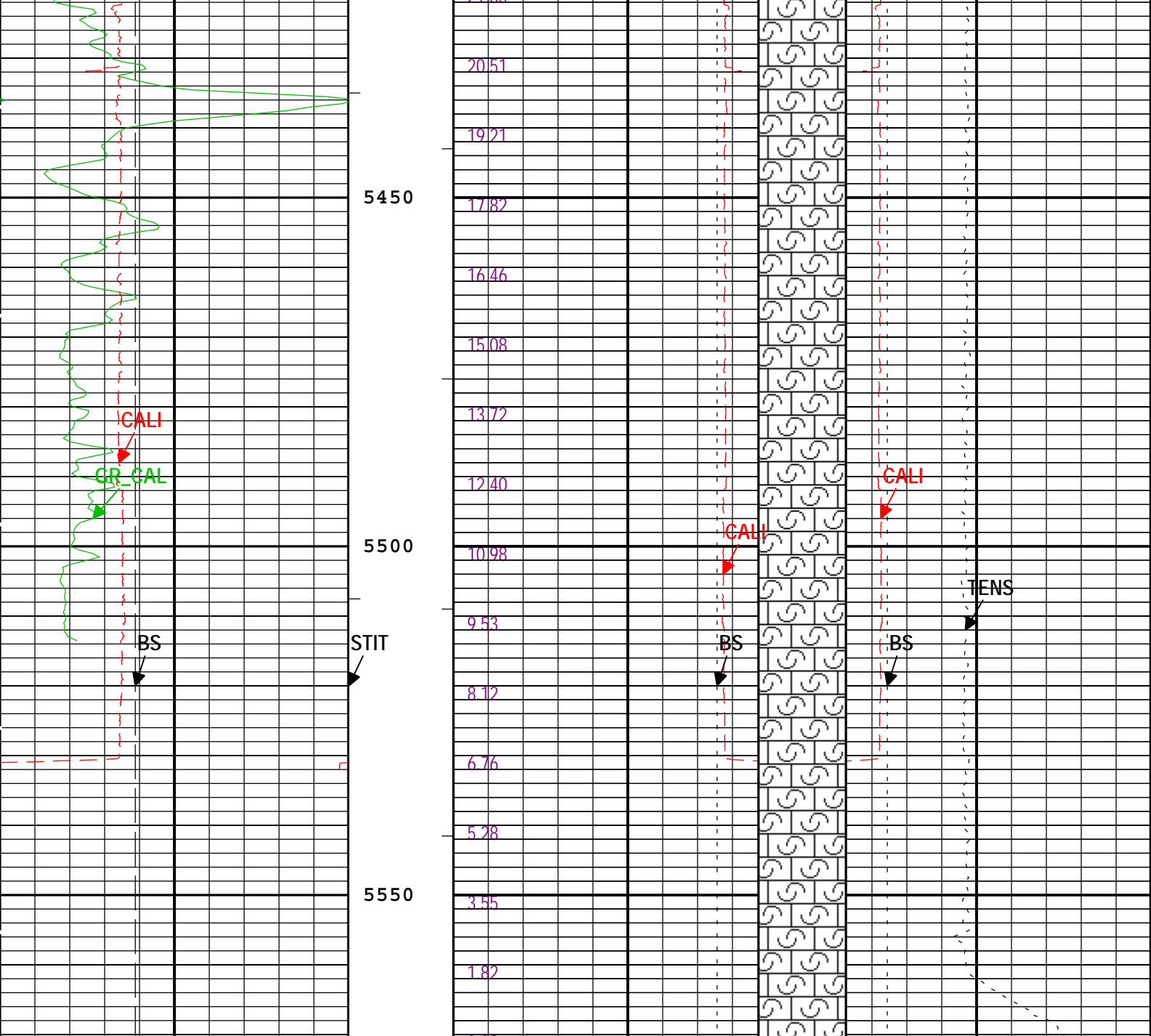












Bit Size (BS)		Stuck Tool Indicator, Total (STIT)		FCD2-FCD3	
4	in	14		Future Casing (Outer) Diameter (FCD)	
Calibrated Gamma Ray (GR_CAL) HGNS-H		0	ft	50	
gAPI		200		Future Casing (Outer) Diameter (FCD)	
Caliper (CALI) HDRS-H		4	in	14	
Bit Size (BS)		Bit Size (BS)		Cable Tension (TENS)	
23	in	3	3	in	23
Caliper (CALI) HDRS-H		Caliper (CALI) HDRS-H		Integrated Cement Volume (ICV)	
23	in	3	5000	lbf	0
Integrated Cement Volume (ICV)		Caliper (CALI) HDRS-H		Caliper (CALI) HDRS-H	
ft3		3		in	23

ICV - Integrated Cement Volume every 10.00 (ft3)

IHV - Integrated Hole Volume every 10.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

ICV - Integrated Cement Volume every 100.00 (ft3)

IHV - Integrated Hole Volume every 100.00 (ft3)

Description: Format: Log (Noble East Caliper) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 11-Dec-2012 18:56:48

Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	-0.005	in
CBLO	Casing Bottom (Logger)	WLSESSION	441	ft
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	8.625	in
FCD	Future Casing (Outer) Diameter	WLSESSION	5.5	in
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	
TD	Total Measured Depth	Borehole	5561	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	0	400	441
BS	7.875	441	5571

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

Company: Vecta Oil & Gas Ltd

Schlumberger

Well: Bierstadt 32-33

Field: Wildcat

County: Cheyenne

State: Colorado

Platform Express

Caliper

Cement Volume