Schlumberger

Company: Vecta Oil & Gas LTD

Well: Crestone

Field: Wildcat

County: Cheyenne State: Colorado

Platform Express

Caliper

Cement Volume

County: Cheyenne
Field: Wildcat
Location: NWSE Sec 17, Twn 14s, Rng 47w
Well: Crestone
Company: Vecta Oil & Gas LTD

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			

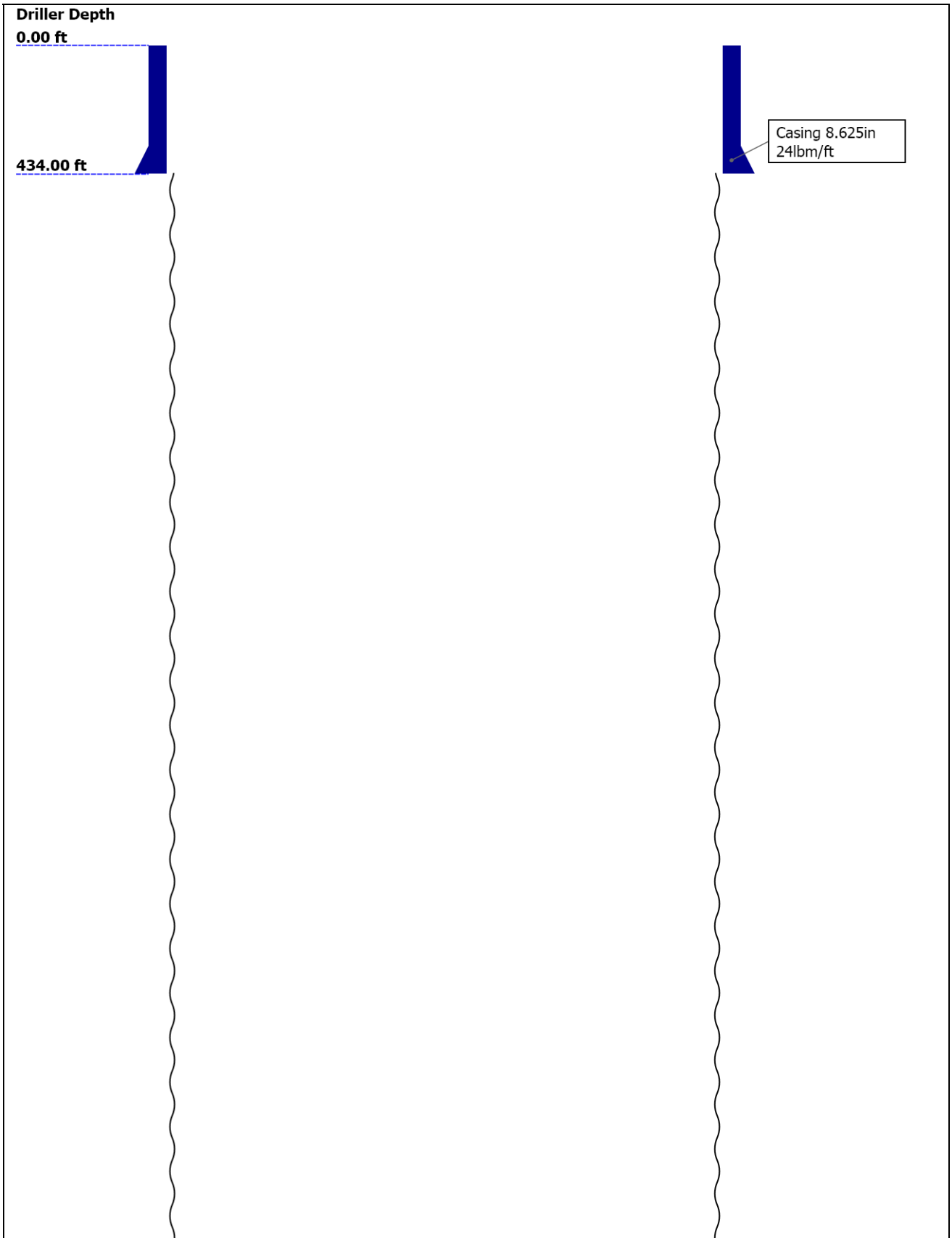
API Serial No.	Section:	Township:	Range:
05-017-07717-0000	17	14S	47W

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			
MUD	Density	Viscosity	9.3 lbm/gal	69 s		
	Fluid Loss	PH				
	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	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			

Disclaimer

Contents

Well Sketch

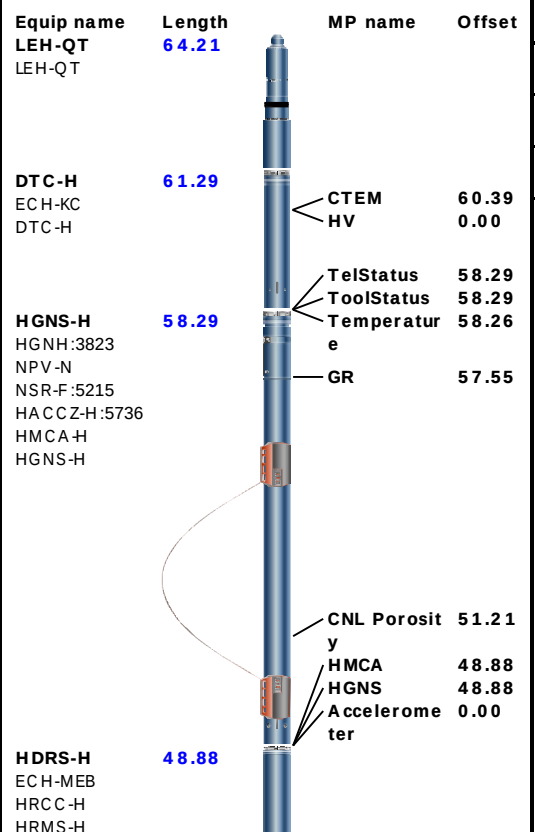


Borehole Size/Casing/Tubing Record

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

This is the first run in hole
Toolstring run as per tool sketch
Limestone Matrix 2.71 g/cc
Operators: Ian Derry and Troy Ocanas

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

HRCC 44.88

MCFL 39.45
Caliper 38.96
TLD Density 38.57

DSLT-H:8318 **36.64**
ECH-KH
DSLC-H:8318
SLS-E:165

CBL 3ft 24.17
Upper-Near 24.17

VDL 5ft 23.17
Upper-Far 23.17

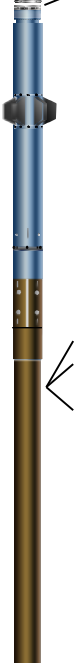
Delta-T 21.79

Lower-Far 20.42

Lower-Near 19.42

SLS-E 16.00

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



Induction 7.91
Power Supply 7.91
Temperature 7.91

Lengths are in ft
Maximum Outer Diameter = 9.000 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

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
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	1088.47	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS	1920.85	ft3

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
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

Run	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth	Include

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	

All depths are referenced to toolstring zero

Log

Run 1: 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: 03-Nov-2012 19:59:36

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

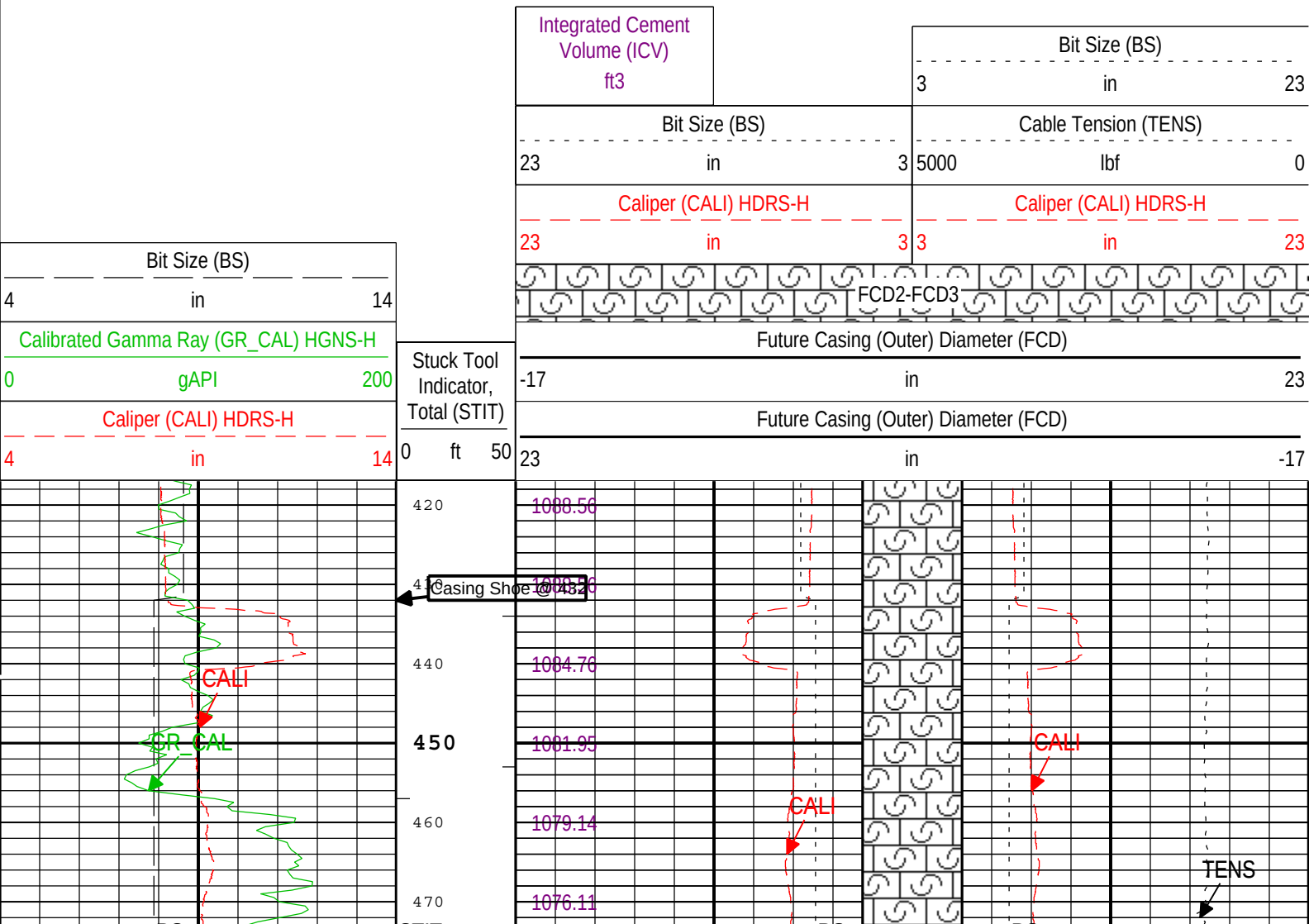
IHV - Integrated Hole Volume every 100.00 (ft3)

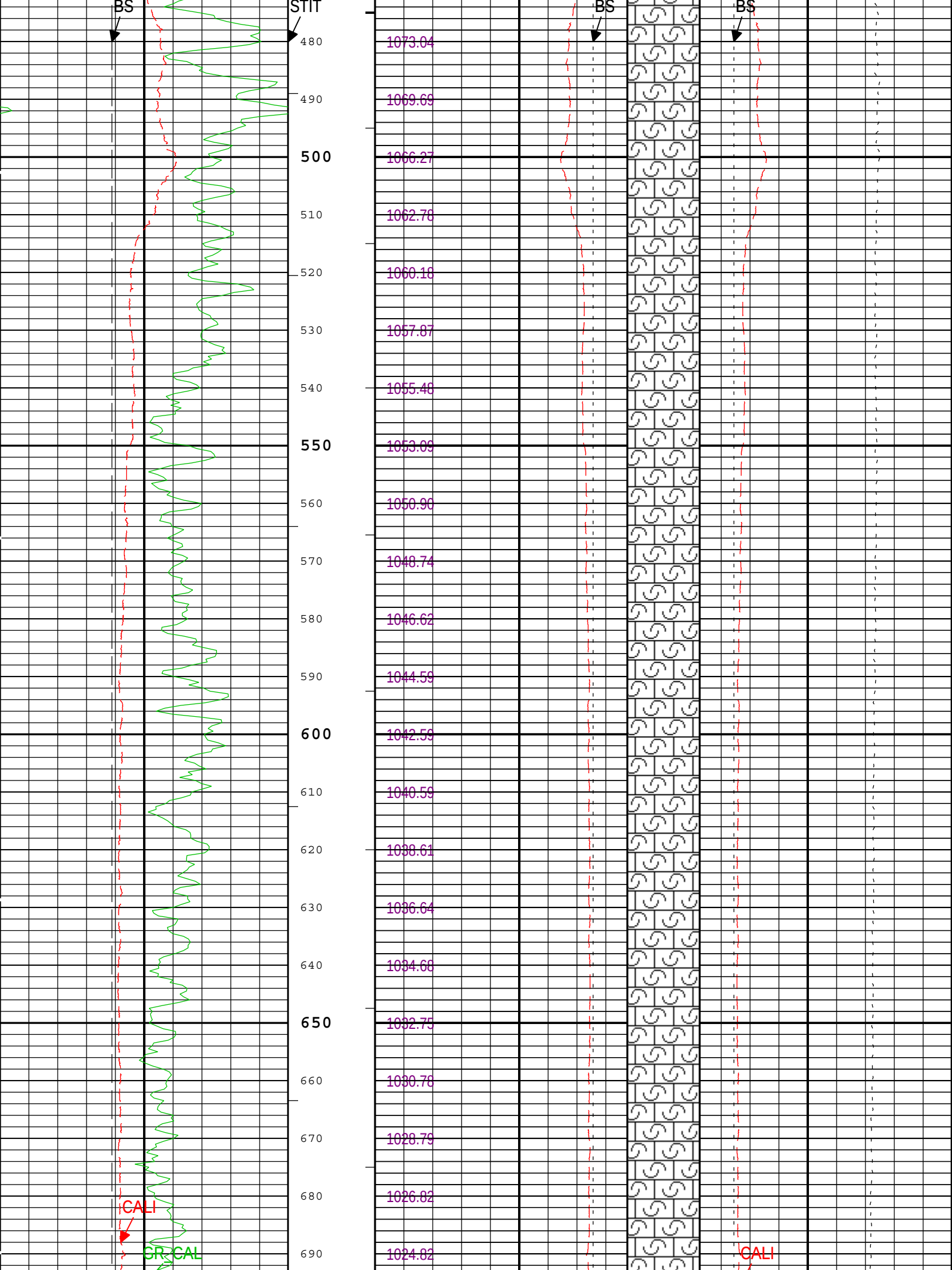
TIME_1900 - Time Marked every 60.00 (s)

ICV - Integrated Cement Volume every 100.00 (ft3)

IHV - Integrated Hole Volume every 10.00 (ft3)

ICV - Integrated Cement Volume every 10.00 (ft3)

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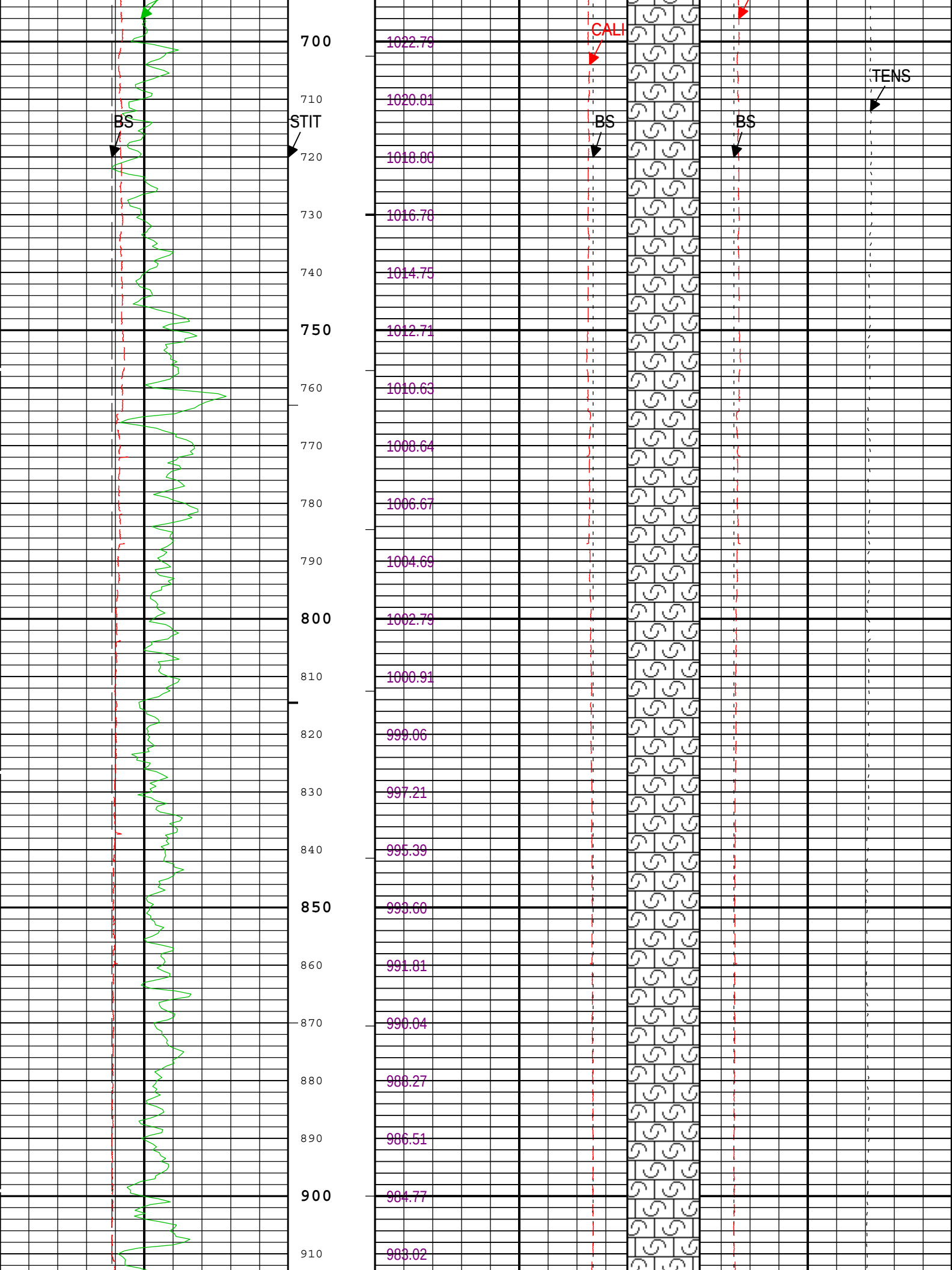
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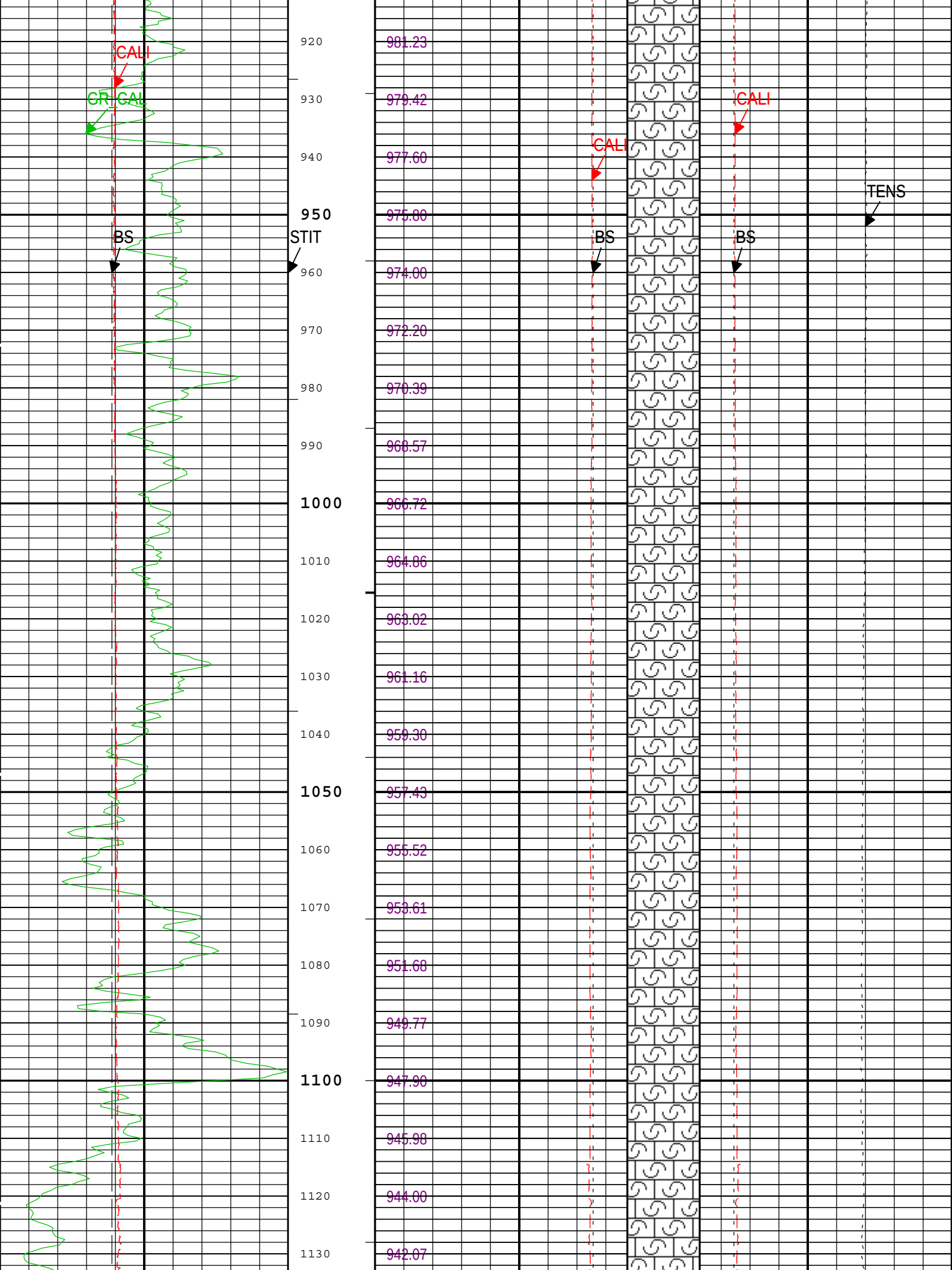
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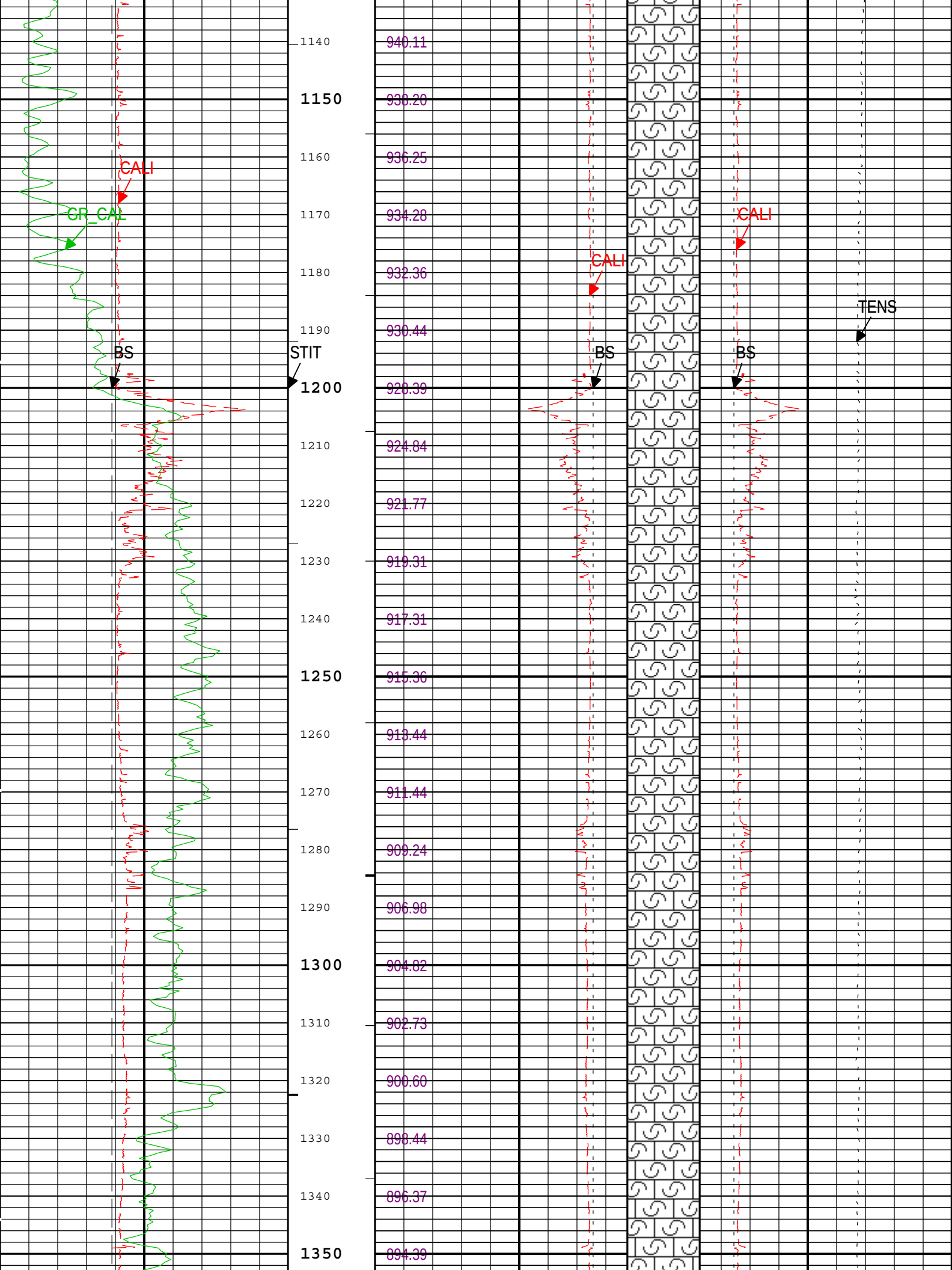
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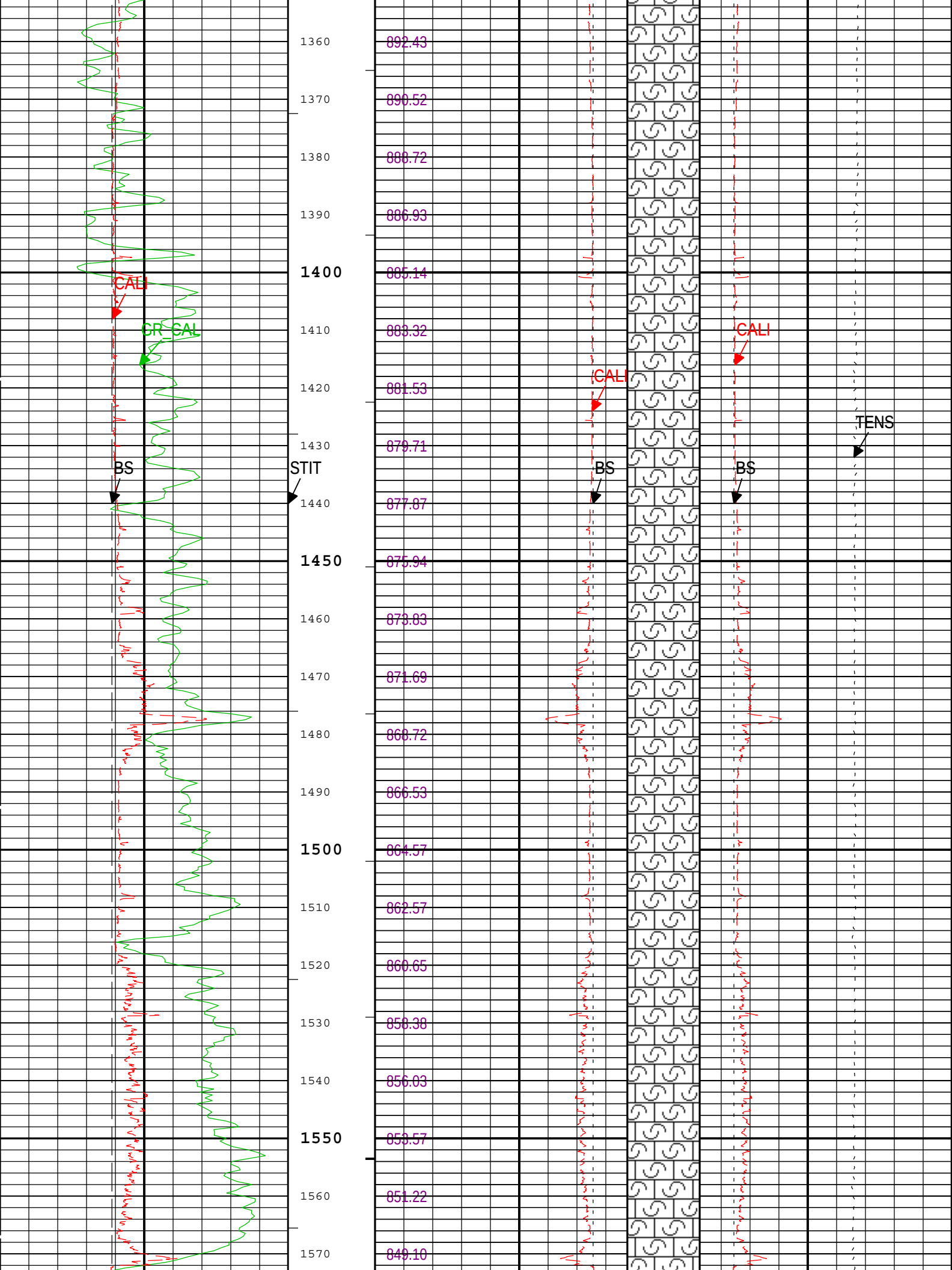
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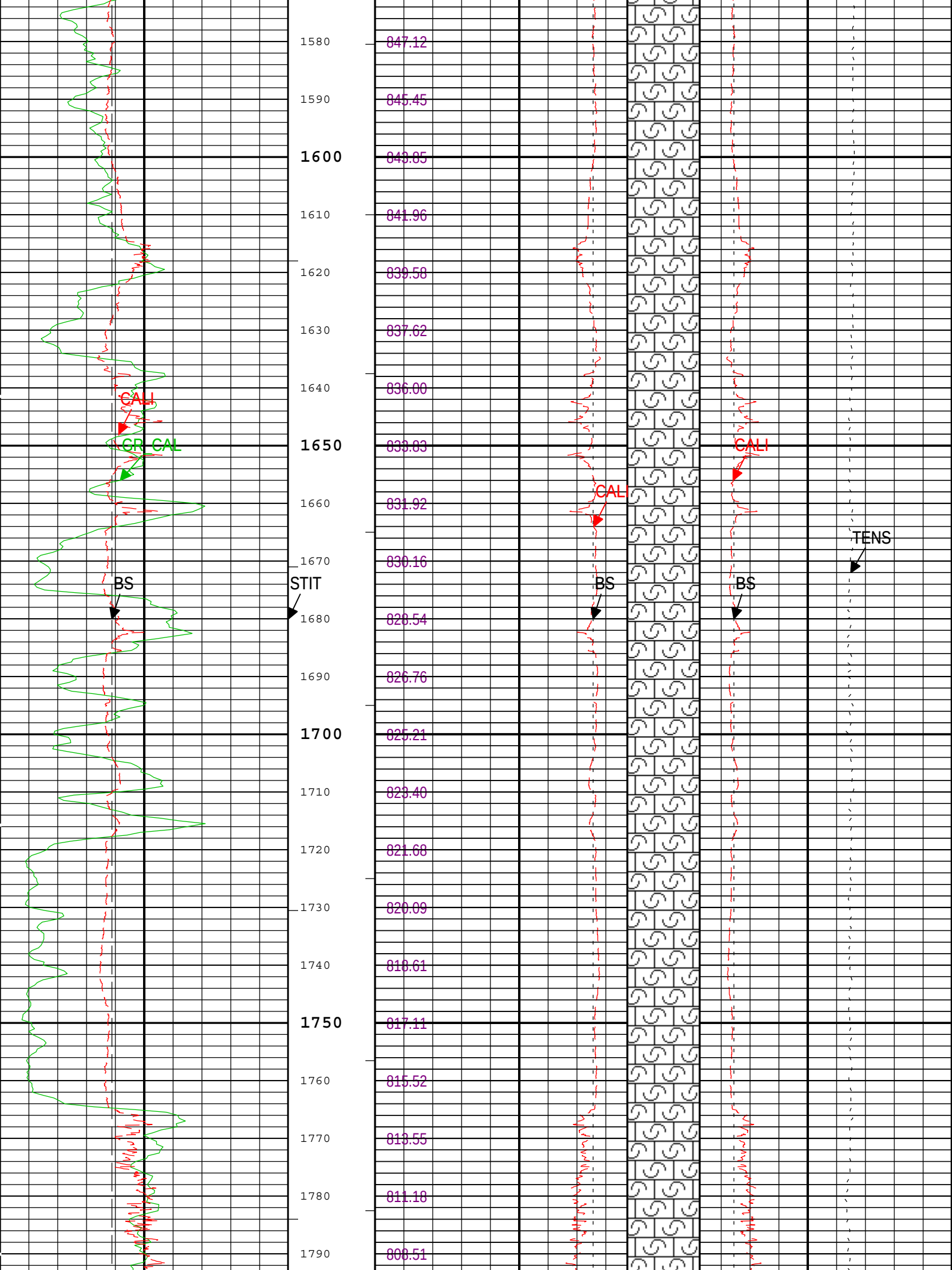
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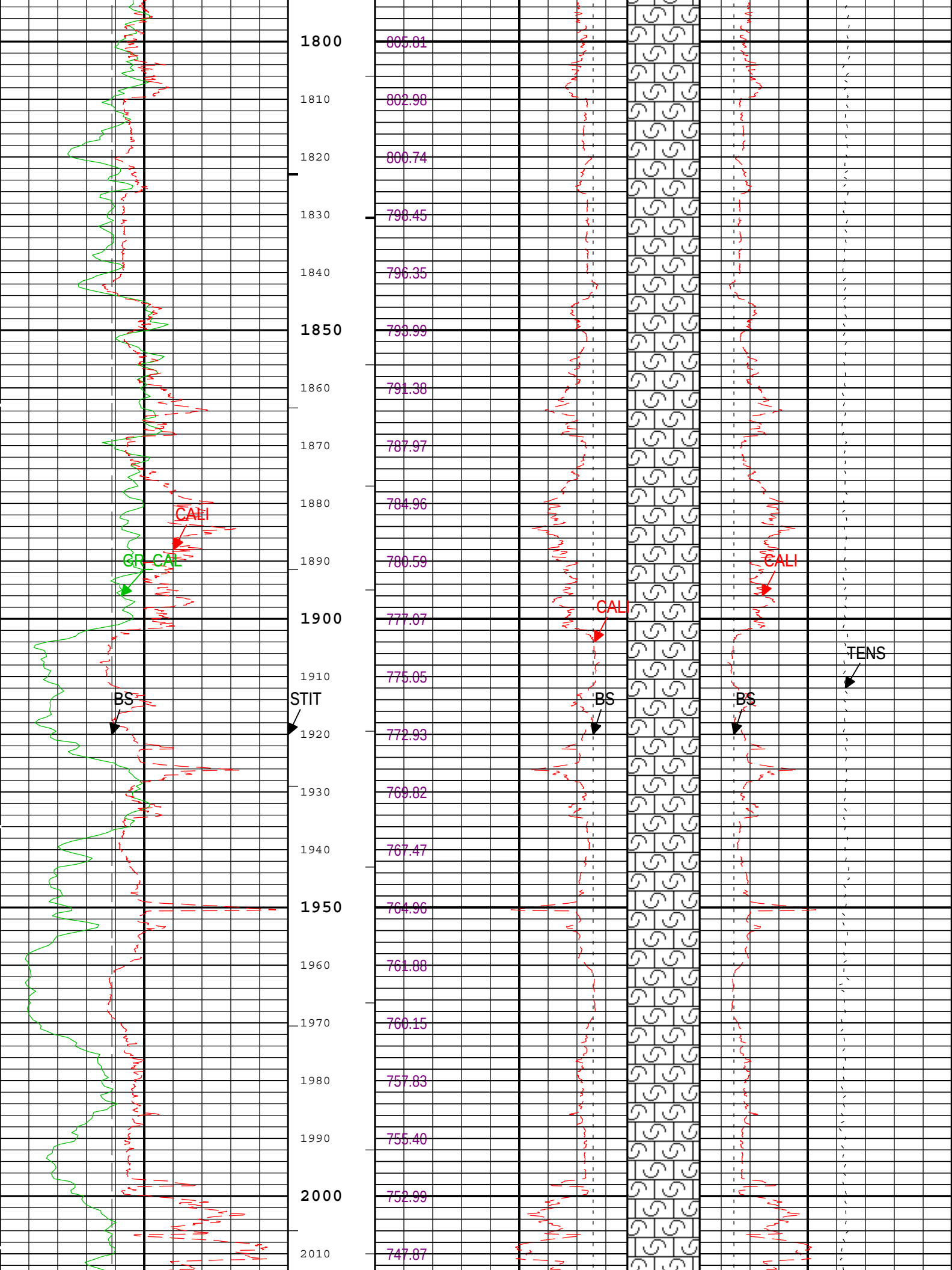
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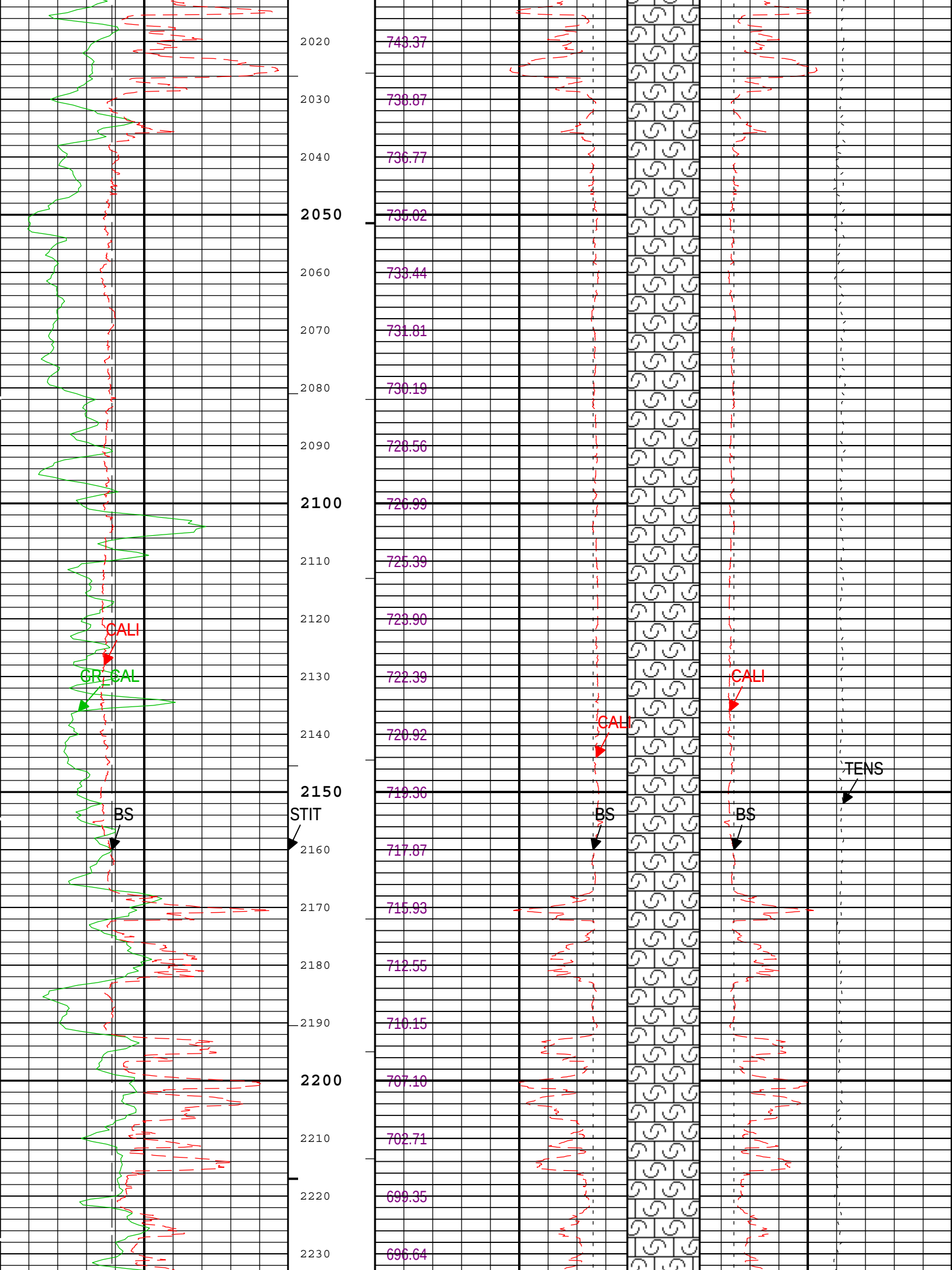
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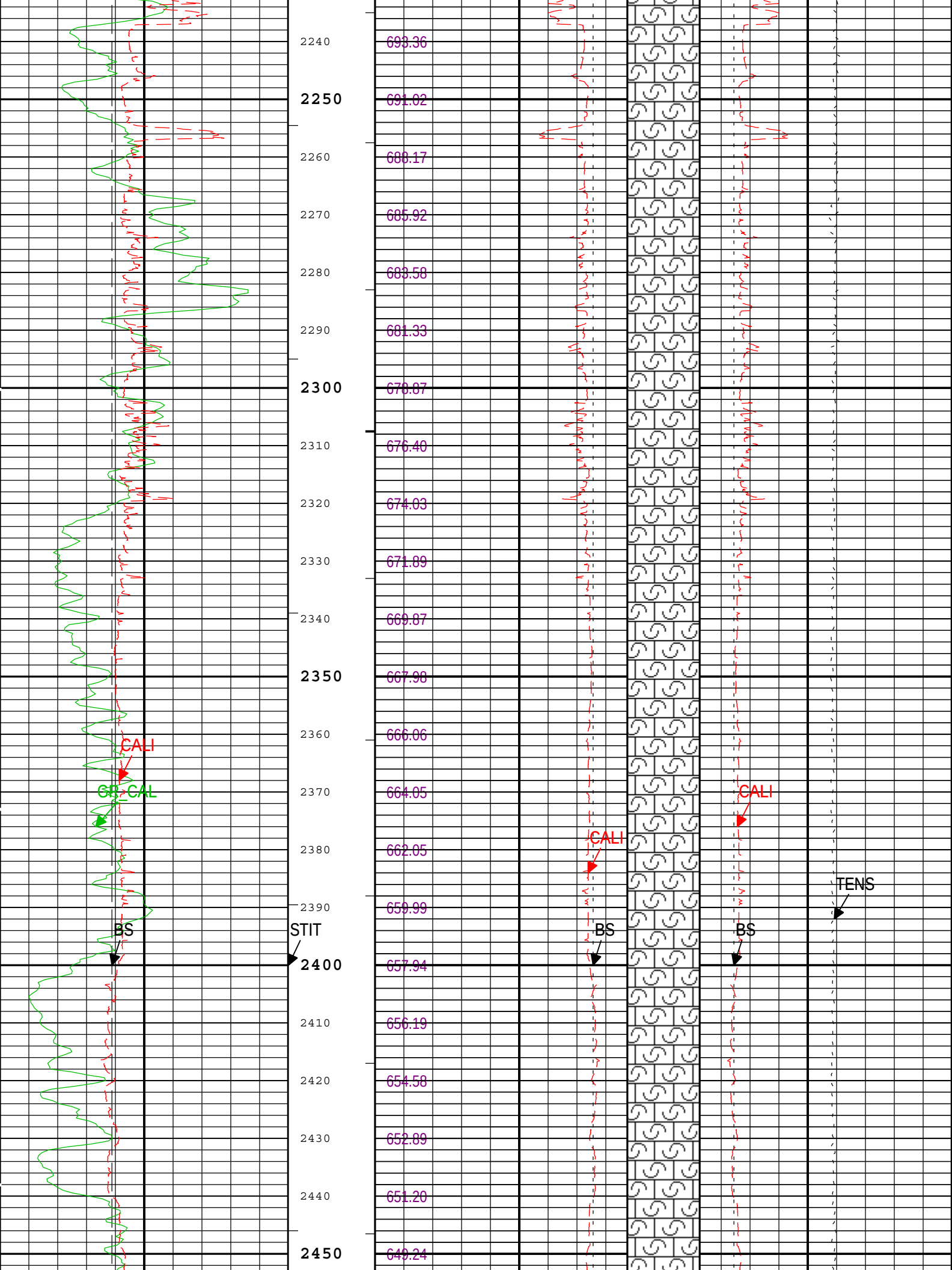
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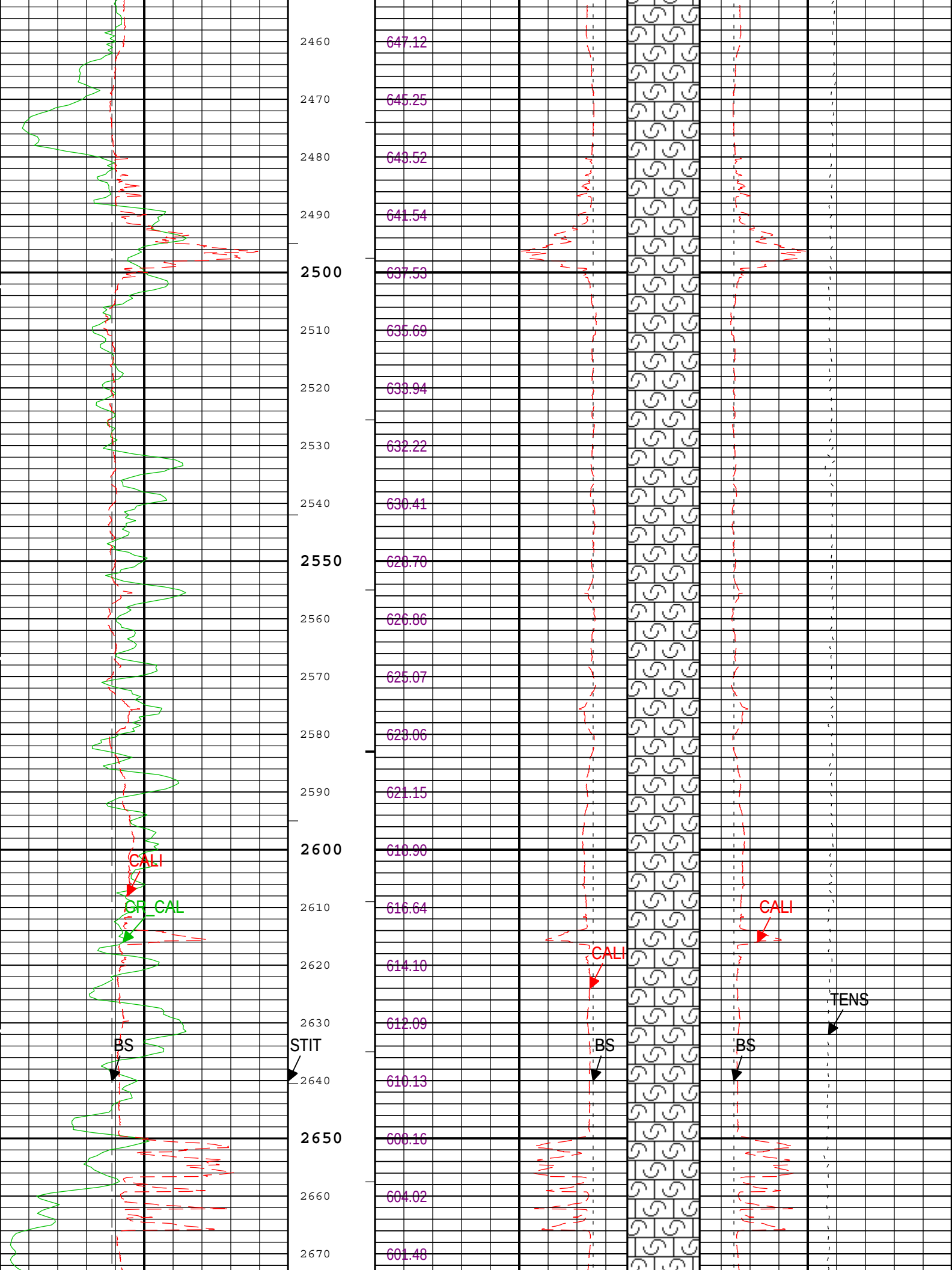
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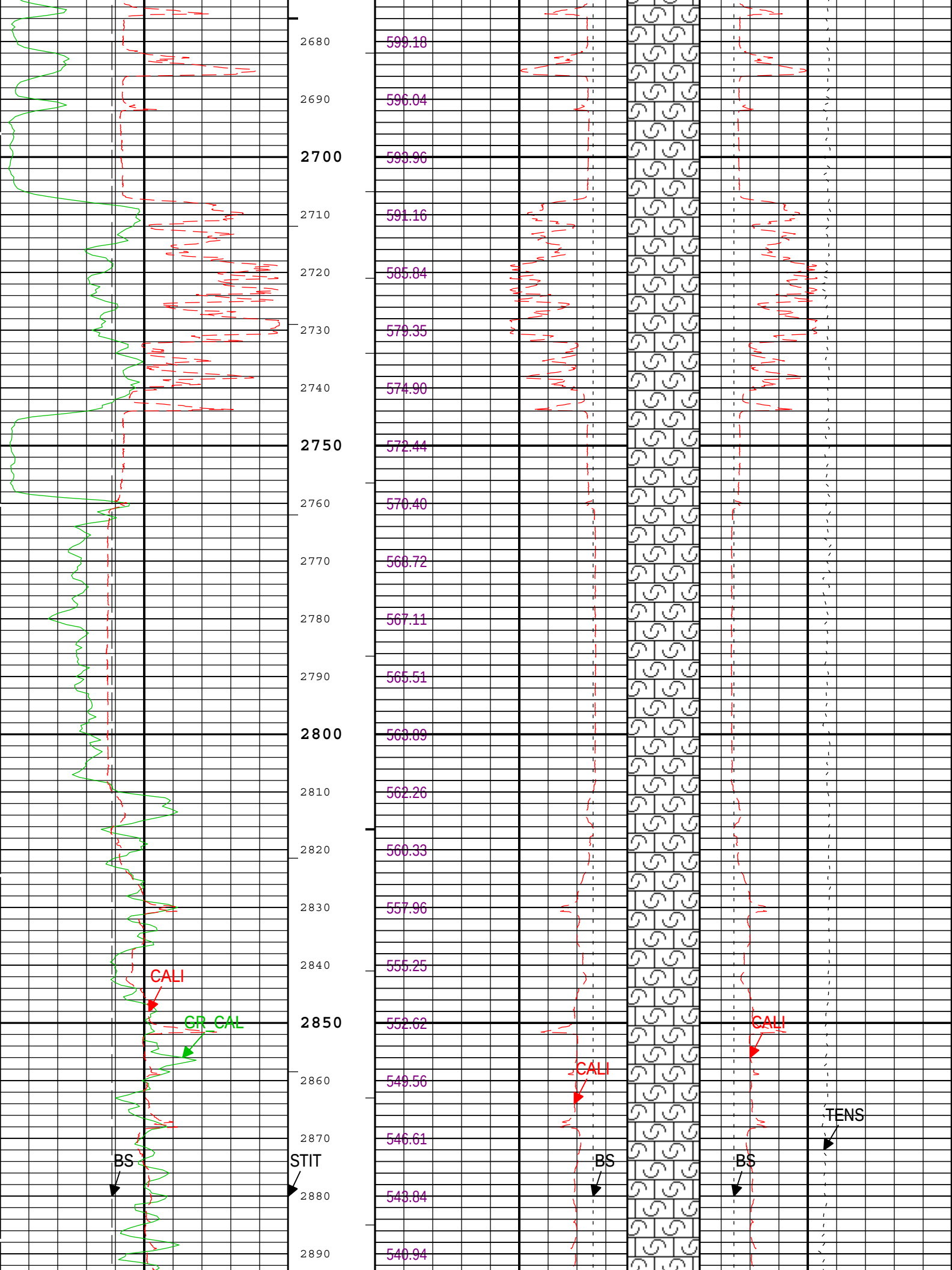
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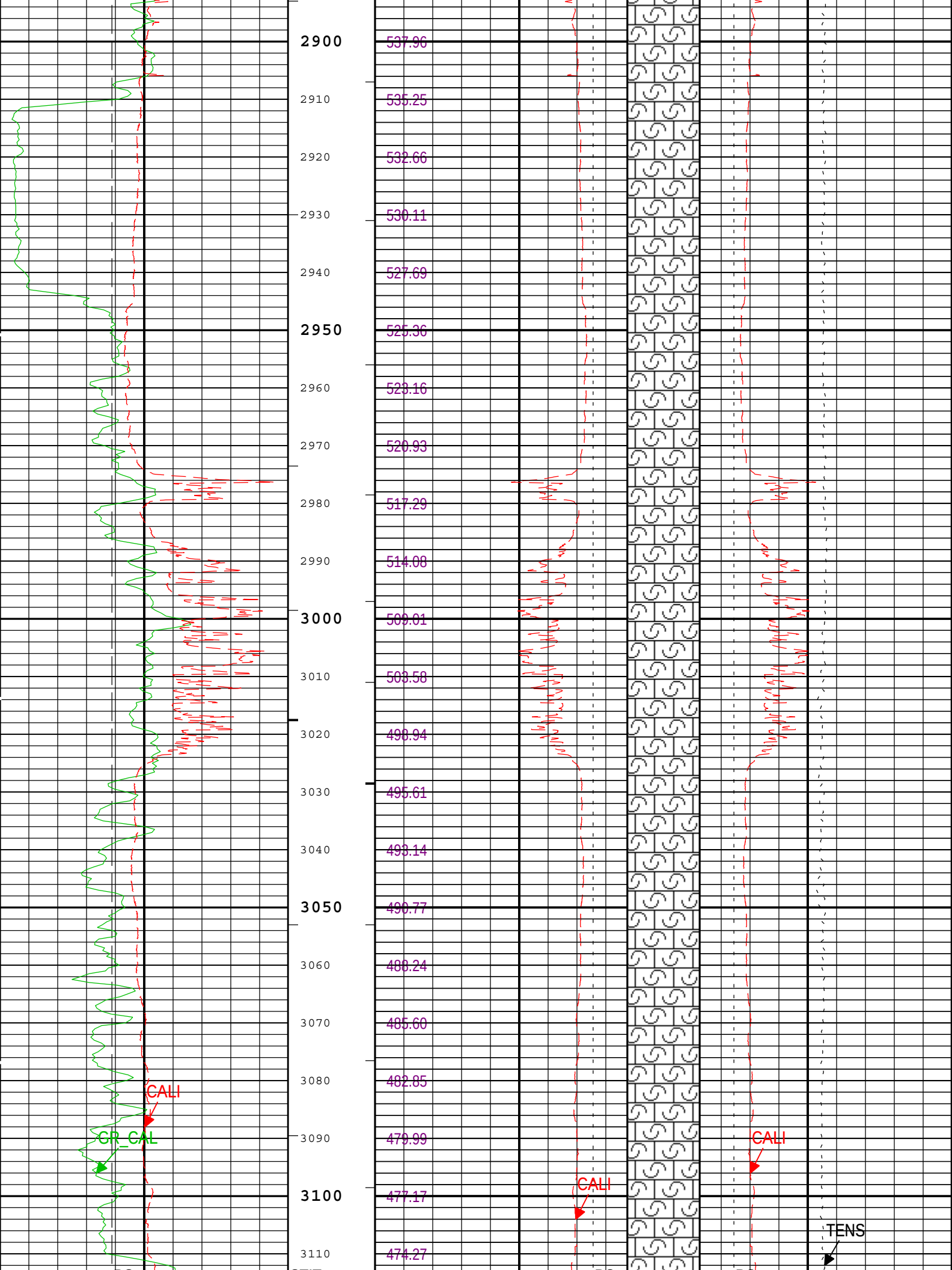
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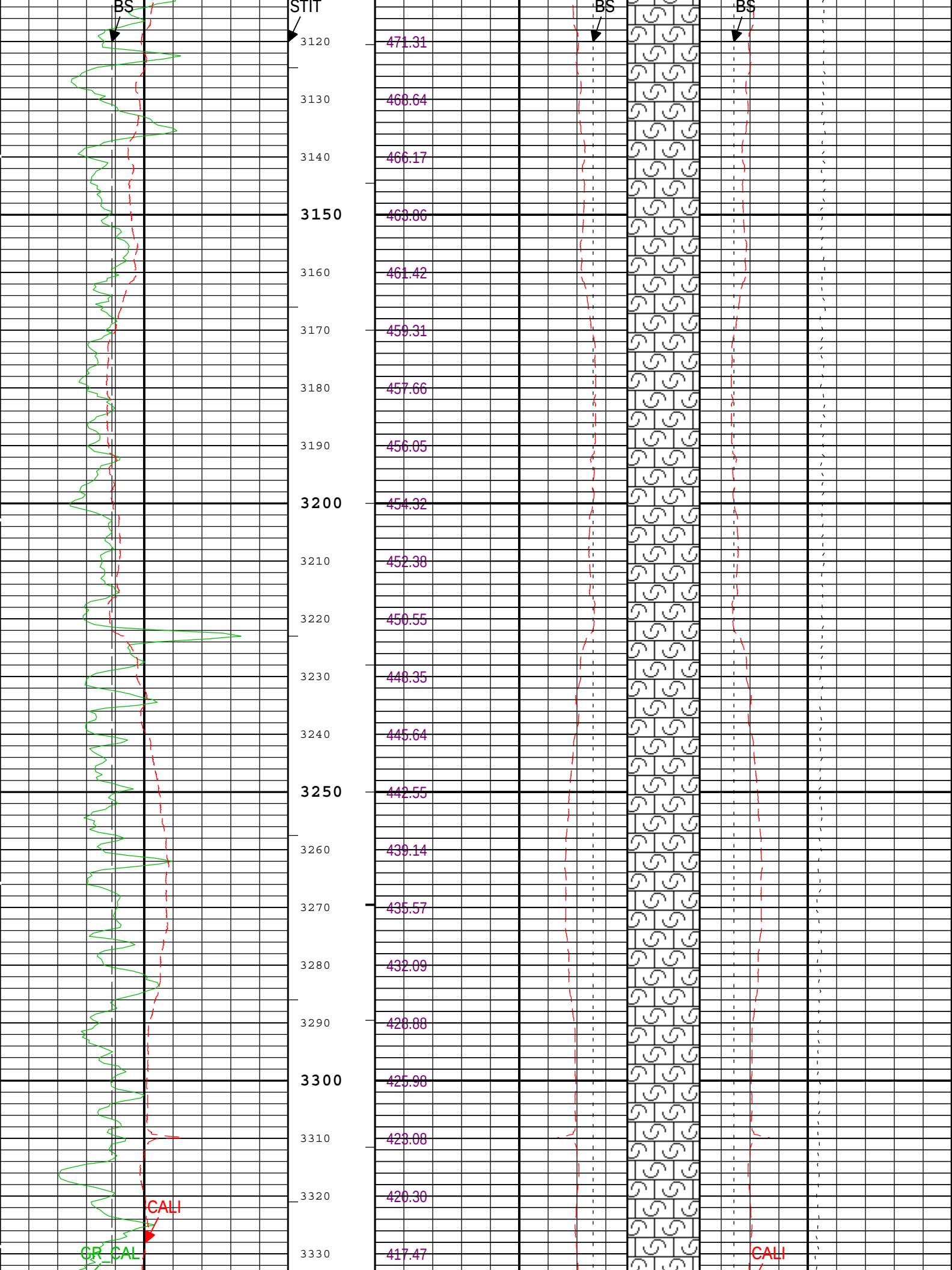
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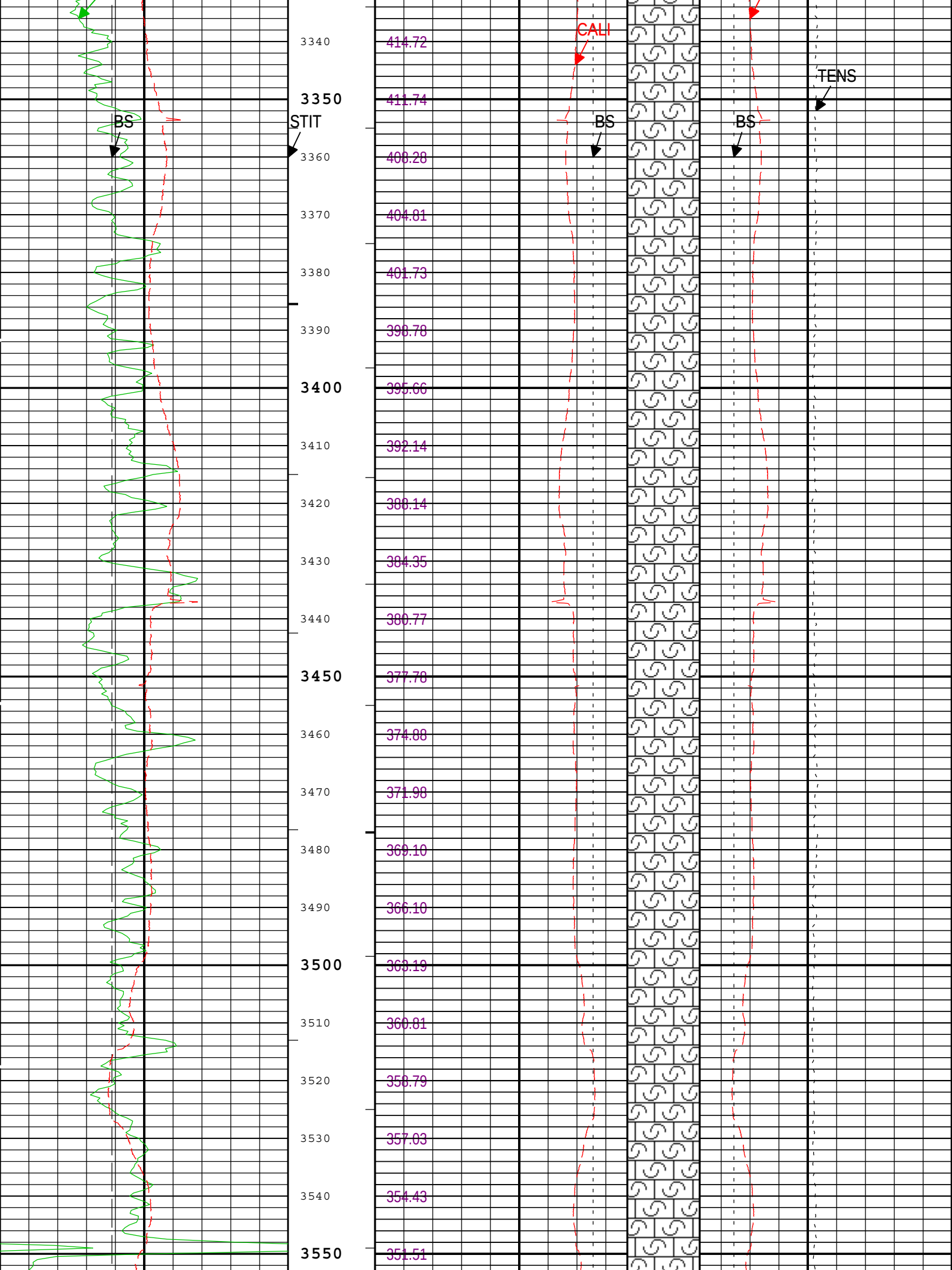
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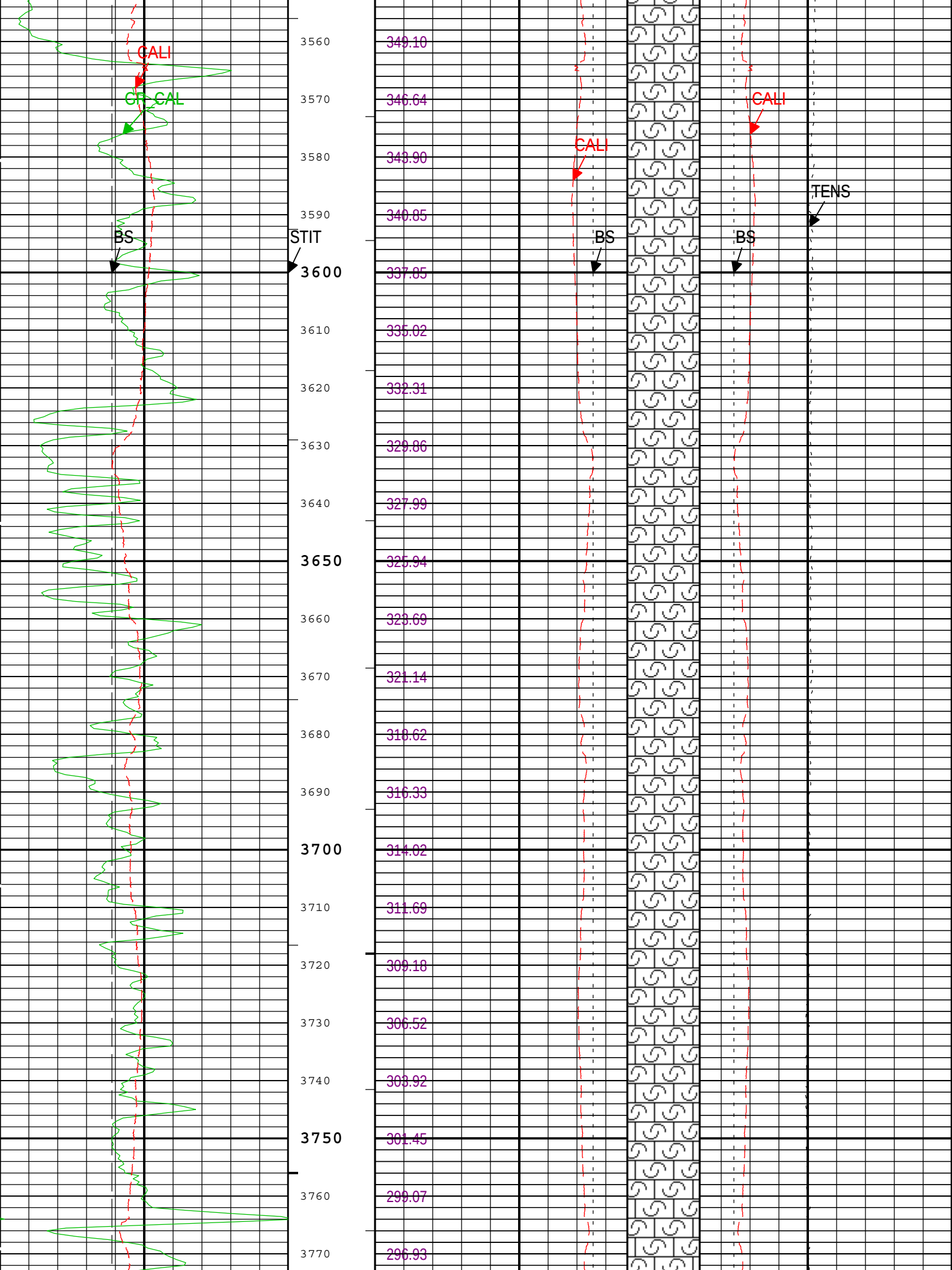
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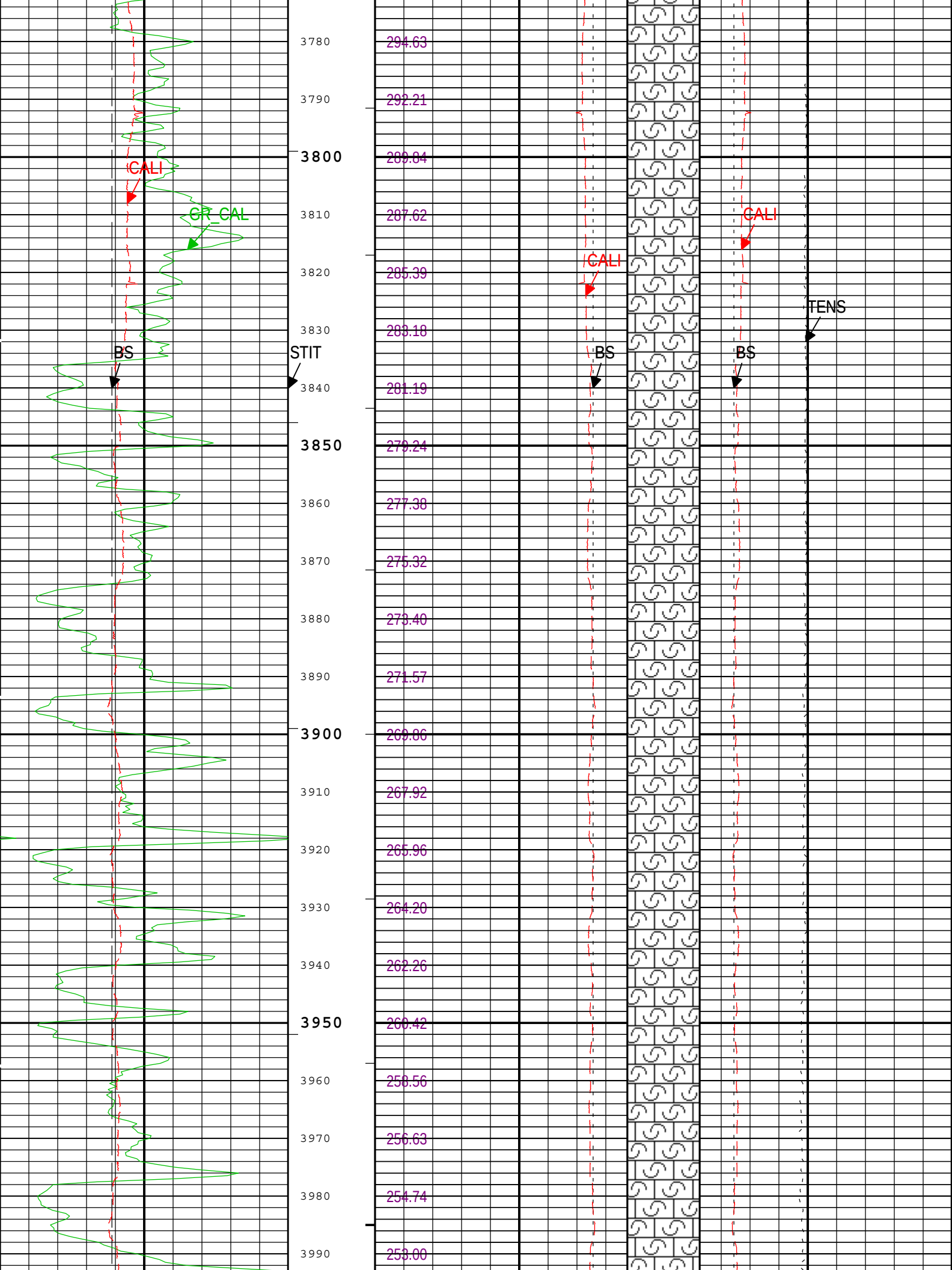
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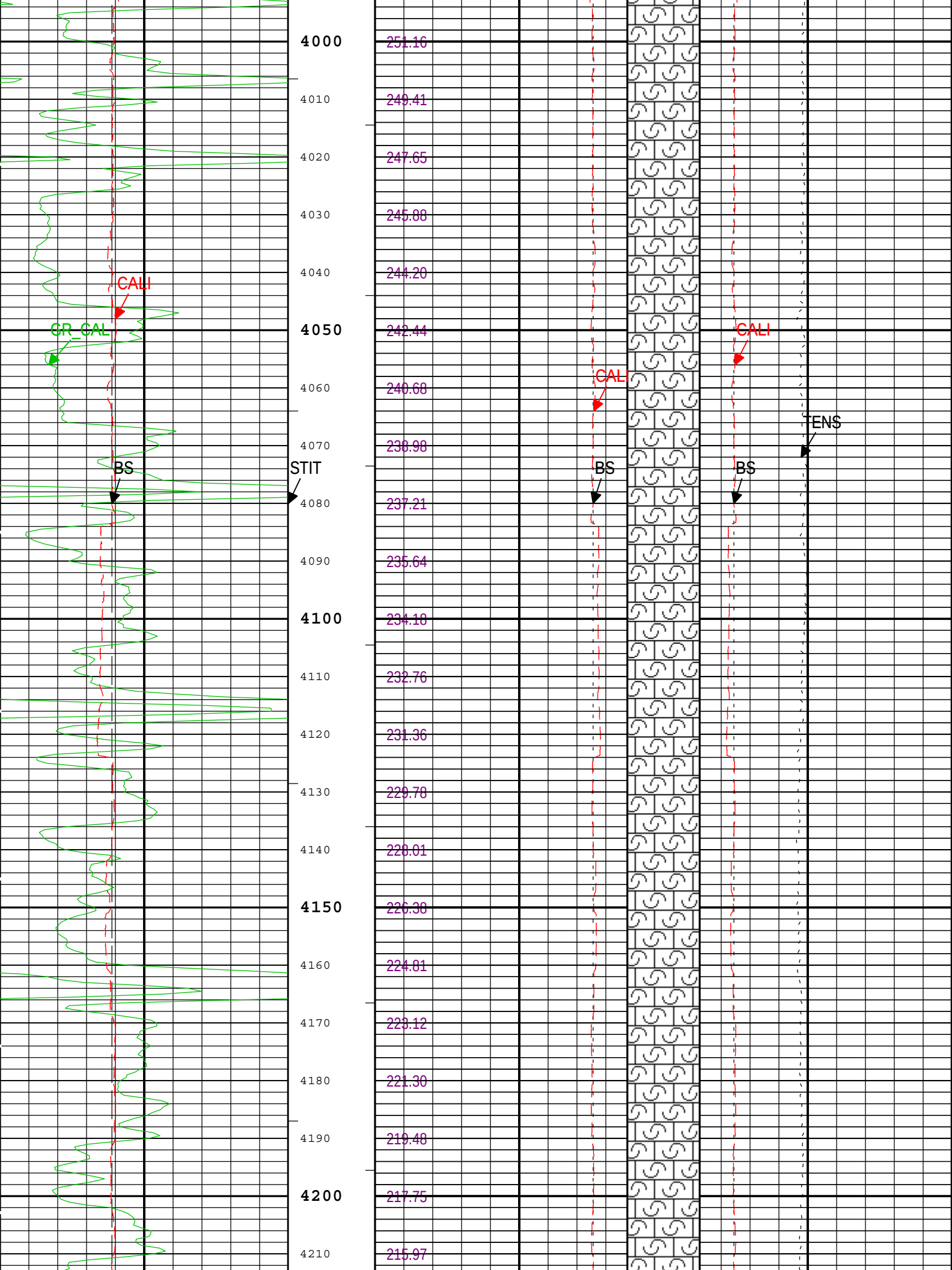
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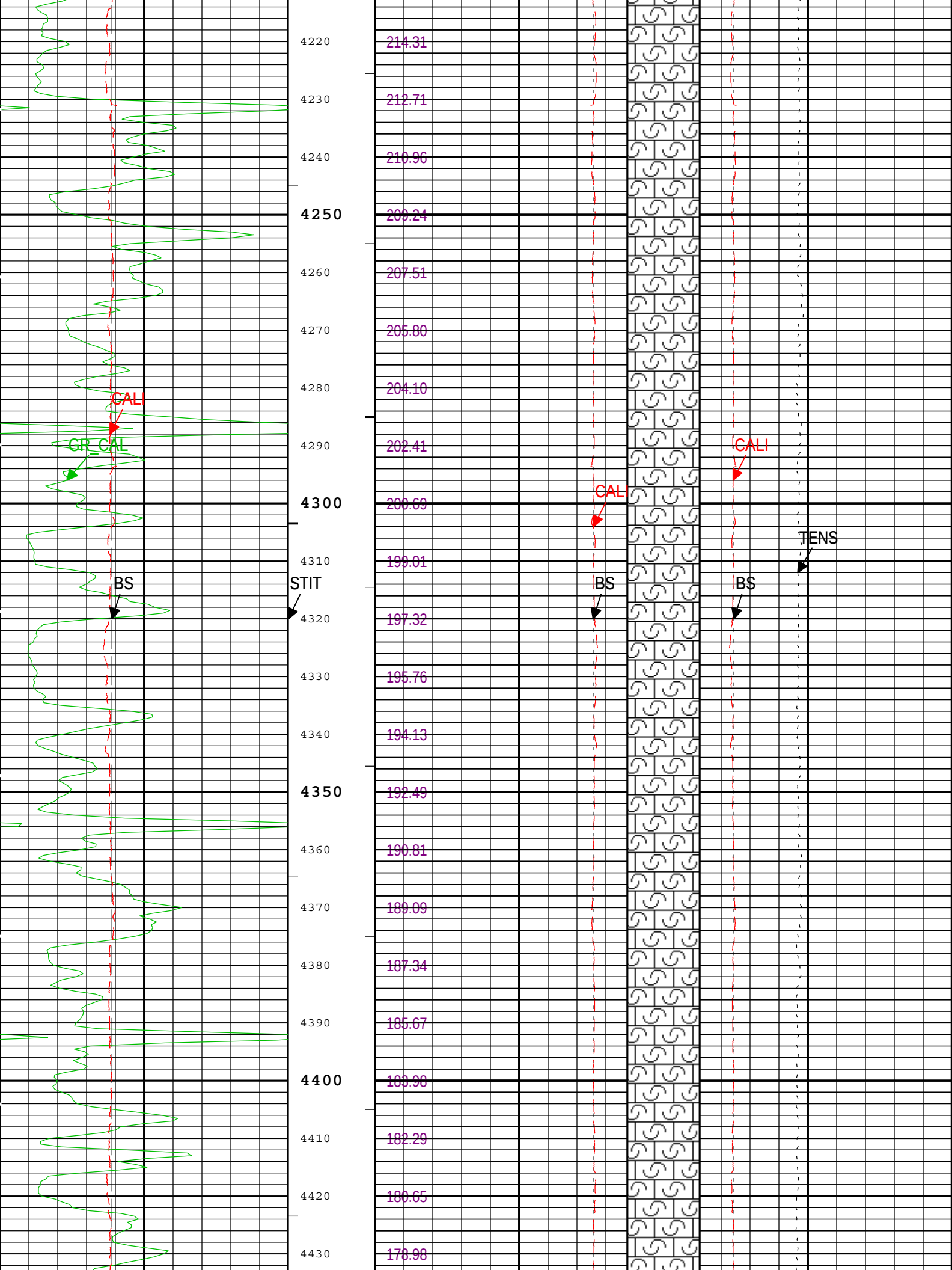
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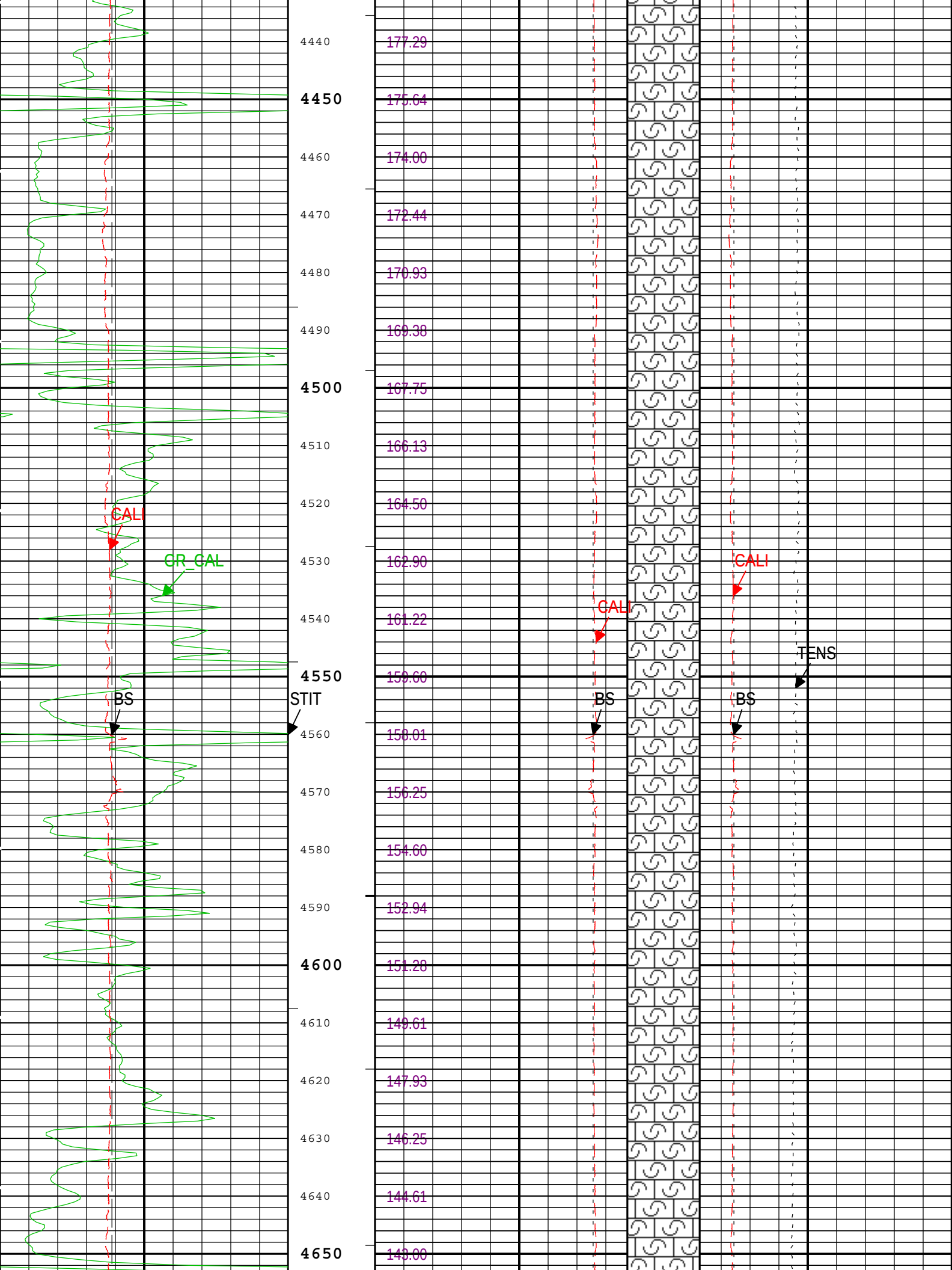
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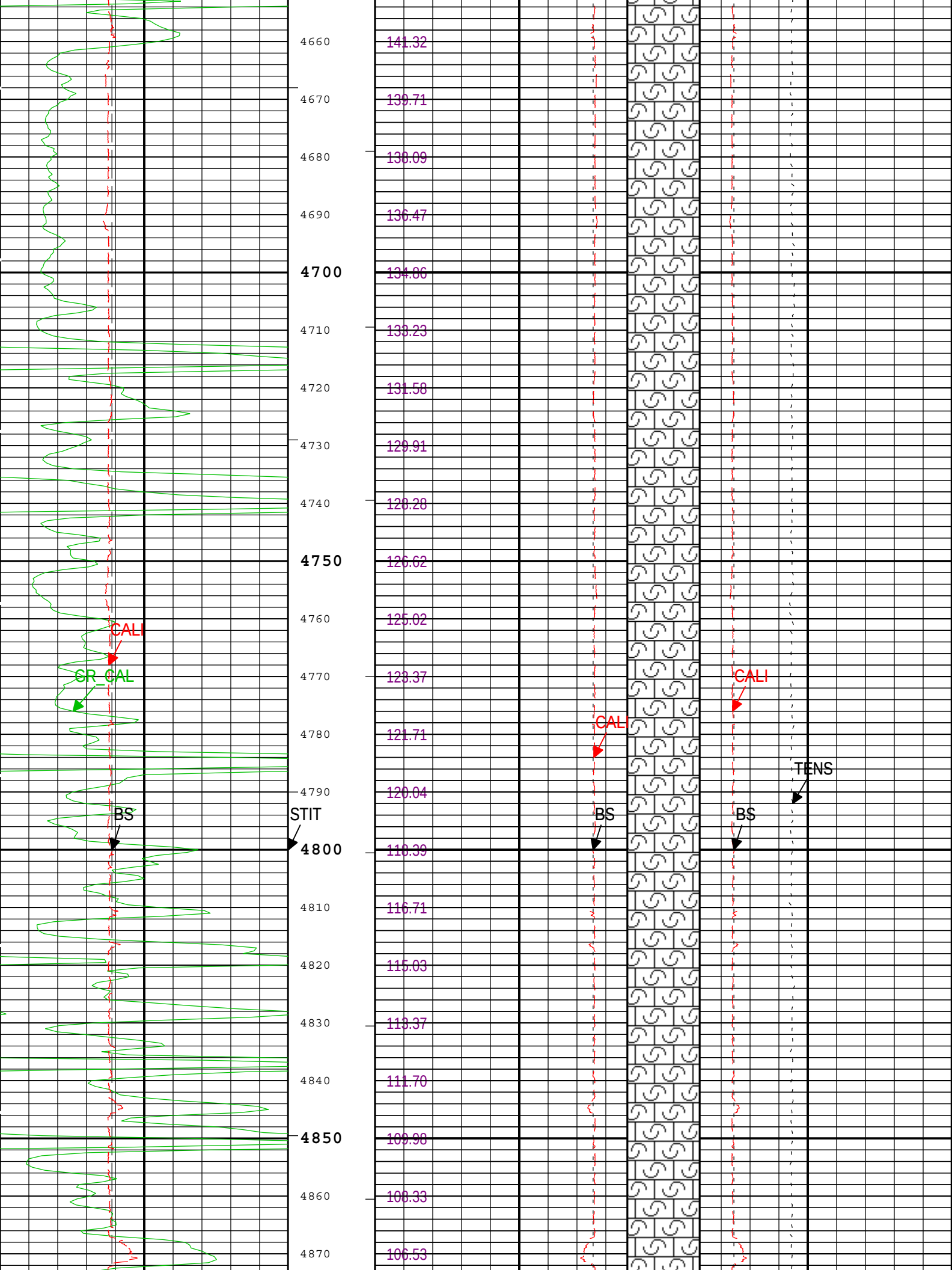
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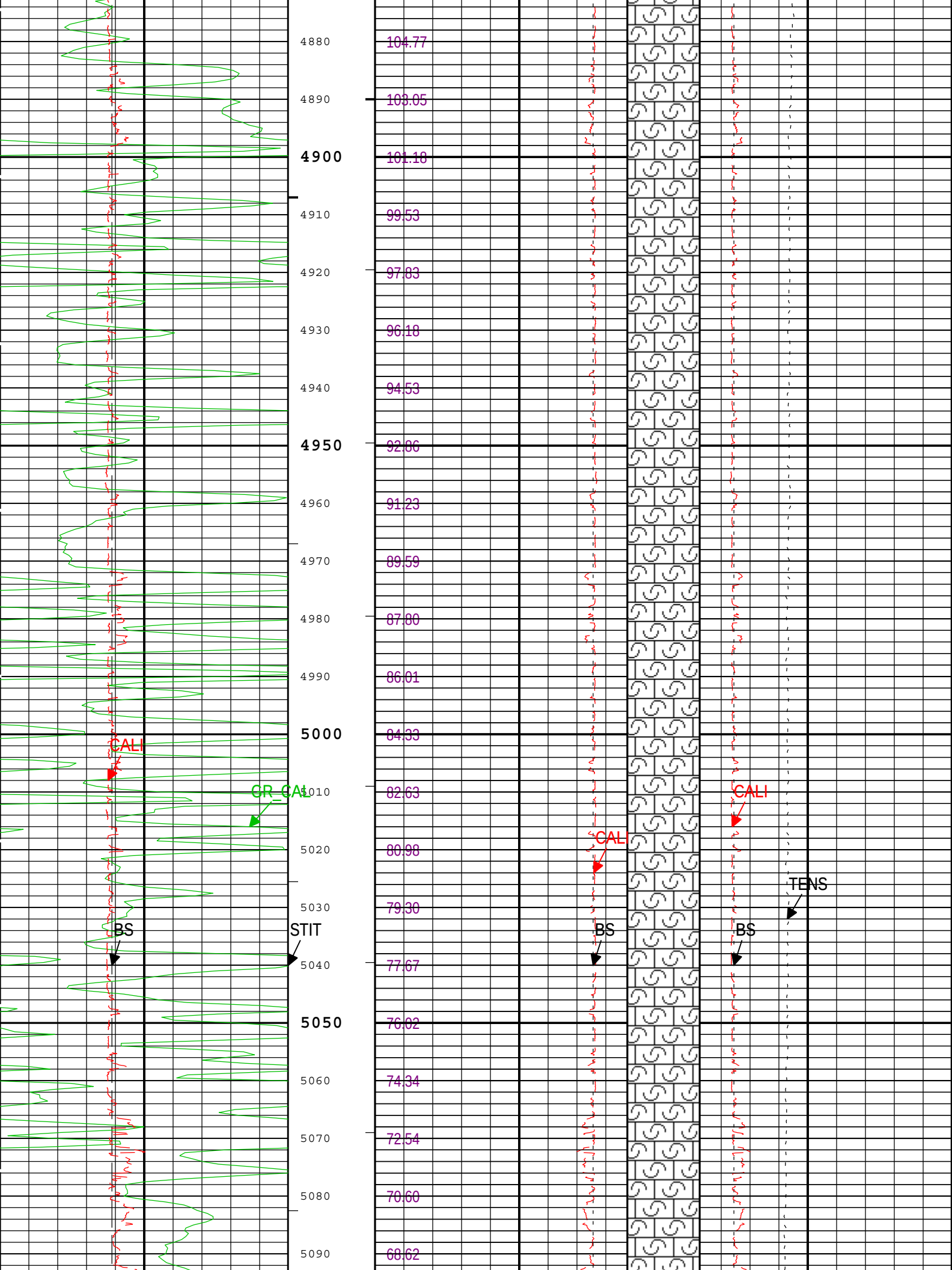
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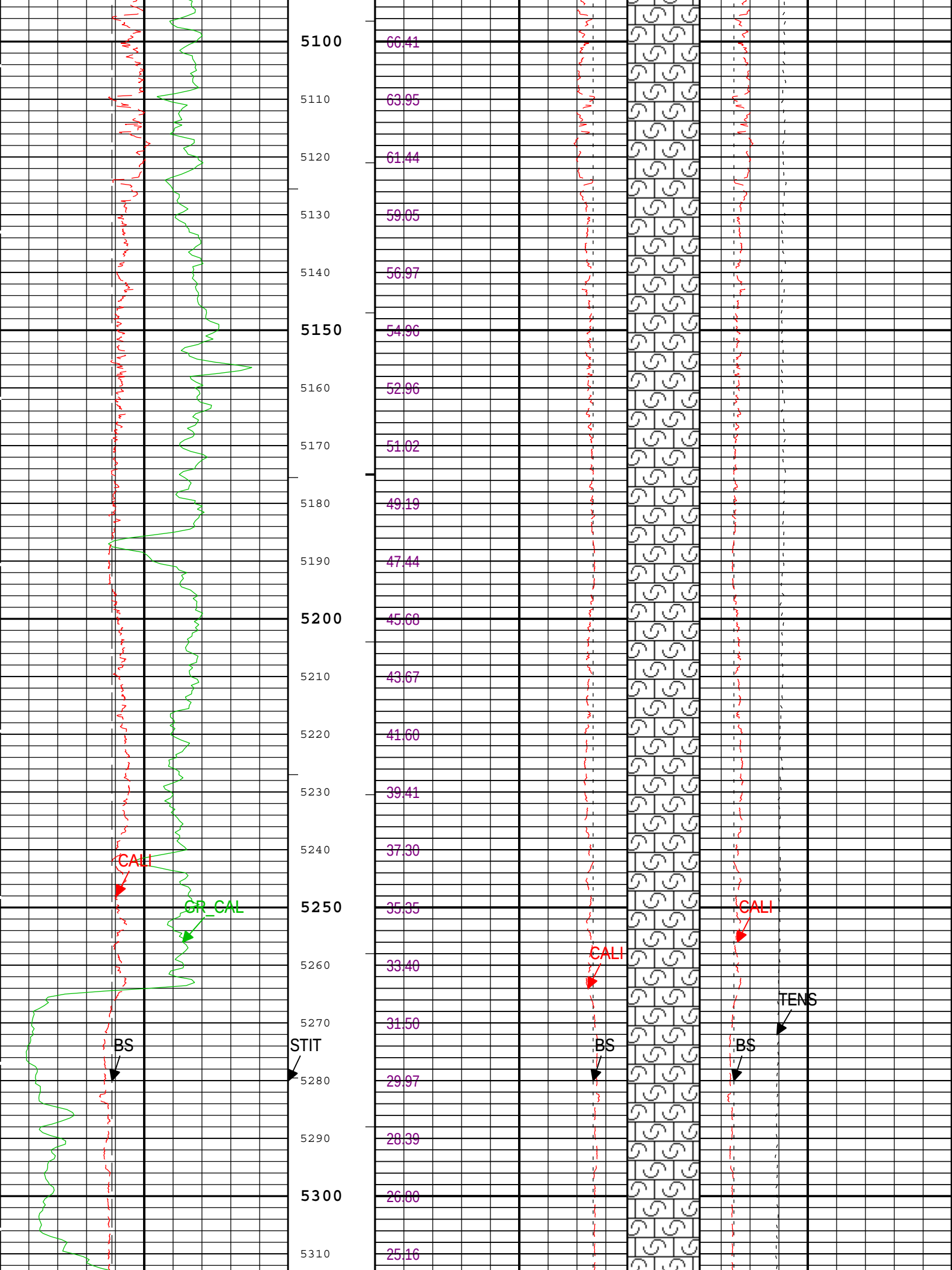
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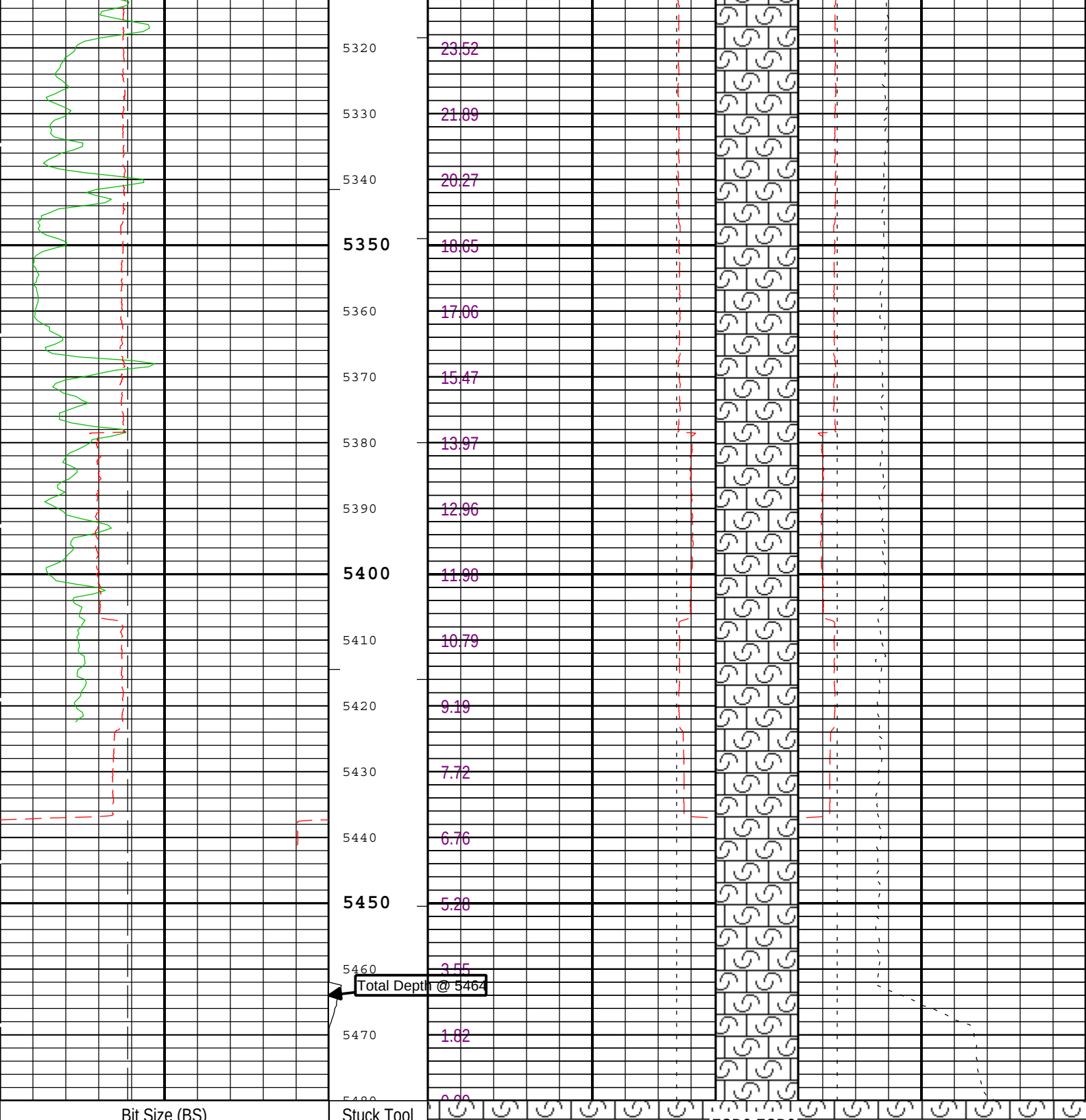

Bit Size (BS)

4 in 14

Calibrated Gamma Ray (GR_CAL) HGNS-H

0 gAPI 200

Caliper (CALI) HDRS-H

4 in 14

Stuck Tool Indicator, Total (STIT)

0 ft 50

FCD2-FCD3

Future Casing (Outer) Diameter (FCD)

-17 in 23

Future Casing (Outer) Diameter (FCD)

23 in -17

Bit Size (BS)

23 in 3

Bit Size (BS)

3 in 23

Caliper (CALI) HDRS-H

23 in 3

Cable Tension (TENS)

5000 lbf 0

Integrated Cement Volume (ICV)

Caliper (CALI) HDRS-H

Volume (ICV)
ft3

3 in 23

ICV - Integrated Cement Volume every 10.00 (ft3)

IHV - Integrated Hole Volume every 10.00 (ft3)

ICV - Integrated Cement Volume every 100.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

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: 03-Nov-2012 19:59:36

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	in
CBLO	Casing Bottom (Logger)	WLSESSION	432	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	5464	ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	0	417	432
BS	7.875	432	5480

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: Crestone

Field: Wildcat

County: Cheyenne

State: Colorado

Platform Express

Caliper

Cement Volume