

Company: Vecta Oil & Gas LTD

Well: Snowmass 32-32

Field: Wildcat

County: Cheyenne State: Colorado

Platform Express									
Caliper									
Cement Volume									
County:		Cheyenne							
Field:		Wildcat							
Location:		SHL: 2566' FNL x 2404' FEL							
Well:		Snowmass 32-32							
Company:		Vecta Oil & Gas LTD							
Logging Date		Location:		SHL: 2566' FNL x 2404' FEL		Elev.:		K.B. 4539.50 ft	
		Permanent Datum:				G.L.		4523.00 ft	
		Log Measured From:				D.F.		4538.50 ft	
		Drilling Measured From:							
API Serial No.		05-017-07771-0000		Section:		32		Township:	
								12S	
								Range:	
								47W	
Run Number		1							
Depth Driller		5761.00 ft							
Schlumberger Depth		5762.00 ft							
Bottom Log Interval		5762.00 ft							
Top Log Interval		433.00 ft							
Casing Driller Size @ Depth		8.625 in @ 438.00 ft							
Casing Schlumberger		433 ft							
Bit Size		7.875 in							
Type Fluid In Hole		Water							
MUD		Density		9.2 lbm/gal		67 s			
		Fluid Loss		5.6 cm3		10			
Source of Sample		Active Tank							
RM @ Meas Temp		1.32 ohm.m @ 70 degF							
RMF @ Meas Temp		0.9 ohm.m @ 70 degF							
RMC @ Meas Temp		1.8 ohm.m @ 70 degF							
Source RMF		Calculated							
RM @ BHT		0.46 @ 212 0.32 @ 212							
Max Recorded Temperatures		160 degF							
Circulation Stopped		03-Oct-2013 21:45:00							
Logger on Bottom		04-Oct-2013 03:15:38							
Unit Number		9108							
Recorded By		Danijl Kholin							
Witnessed By		Matt Goobsby							

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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Well Sketch

Driller Depth

0.00 ft

438.00 ft

Casing 8.625in
24lbm/ft

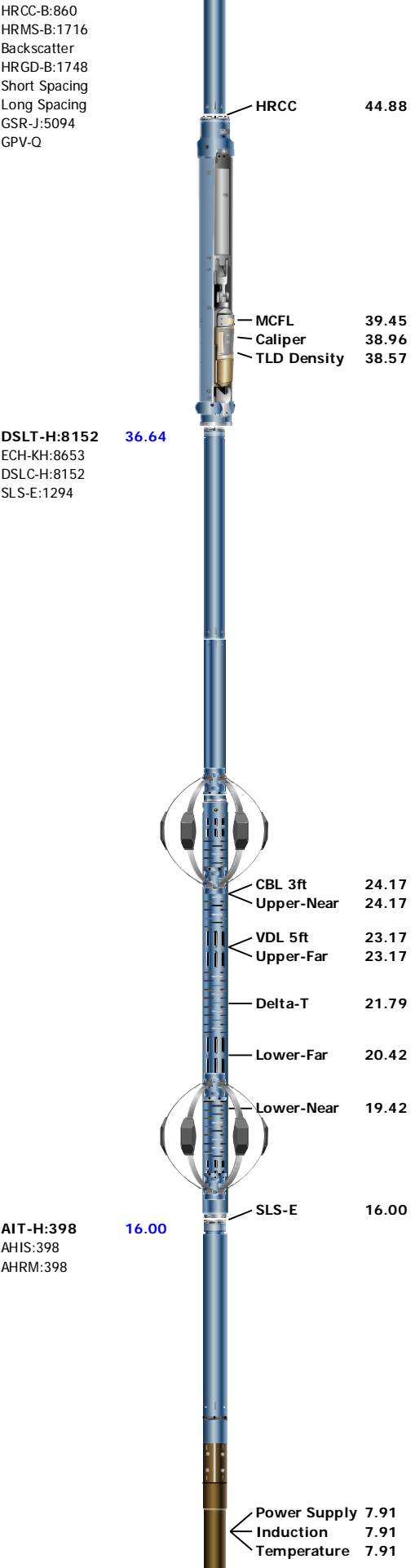


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	7.875					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	5761					
Bottom Logger (ft)	5762					
Casing						
Size (in)	8.625					
Weight (lbm/ft)	24					
Inner Diameter (in)	8.097					
Grade	N/A					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	438					
Bottom Logger (ft)	433					

Remarks and Equipment Summary

1: Toolstring				1: Remarks	
<div><div><div>Equip name</div><div>LEH-QT:2429</div><div>LEH-QT:2429</div></div><div><div>Length</div><div>64.21</div></div><div><div>MP name</div><div></div></div><div><div>Offset</div><div></div></div></div> <div></div>	Toolstring run as per toolsketch				
	Matrix: Limestone 2.71 g/cc				
	Crew: Aaron Weber, Gary Lapp				
<div><div><div>DTC-H:8485</div><div>ECH-KC:9562</div><div>DTC-H:8485</div></div><div><div>Length</div><div>61.29</div></div><div><div>MP name</div><div></div></div><div><div>Offset</div><div></div></div></div> <div></div>	<div>CTEM60.39</div> <div>HV0.00</div>				
<div><div><div>HGNS-B:863</div><div>HGNH:2883</div><div>NPV-N</div><div>NSR-F:5069</div><div>HMCA-B</div><div>HACCZ-B:452</div><div>HGNS-B:863</div></div><div><div>Length</div><div>58.29</div></div><div><div>MP name</div><div></div></div><div><div>Offset</div><div></div></div></div> <div></div>	<div>ToolStatus58.29</div> <div>TelStatus58.29</div> <div>Temperature58.26</div> <div>GR57.55</div>				
<div><div><div>HDERS-B:1716</div><div>ECH-MEB:1866</div></div><div><div>Length</div><div>48.88</div></div><div><div>MP name</div><div></div></div><div><div>Offset</div><div></div></div></div> <div></div>	<div>CNL Porosity51.21</div> <div>HGNS48.88</div> <div>HMCA48.88</div> <div>Acceleromete0.00</div> <div>r</div>				



 <div> <div>SP</div> <div>Mud Resistivity</div> <div>Head Tension</div> <div>TOOL_ZERO</div> </div> <div> <div>0.08</div> <div>0.00</div> </div> <div> <div>Lengths are in ft</div> <div>Maximum Outer Diameter = 7.000 in</div> <div>Line: Sensor Location, Value: Gating Offset</div> <div>All measurements are relative to TOOL_ZERO</div> </div>		
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Depth Summary

	1		
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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	147		
Calibration Date	03-Sep-2013		
Calibrator Serial Number	100818		
Number of Calibration Points	10		
Calibration Root Mean Square Error	18		
Calibration Peak Error	31		

Logging Cable

Type	7-46A-XS		
Serial Number	U711080		
Length	24000.00 ft		
Conveyance Type	Wireline		
Rig Type	Land		

1:Depth Control Parameters

Depth Control Remarks

Log Sequence	First Log In the Well	All Schlumberger Depth Control Procedures followed
Rig Up Length At Surface		IDW used as Primary Depth Control
Rig Up Length At Bottom		Z-chart used as Secondary Depth Control
Rig Up Length Correction		
Stretch Correction	4.63 ft	
Tool Zero Check At Surface		

1

5" Caliper

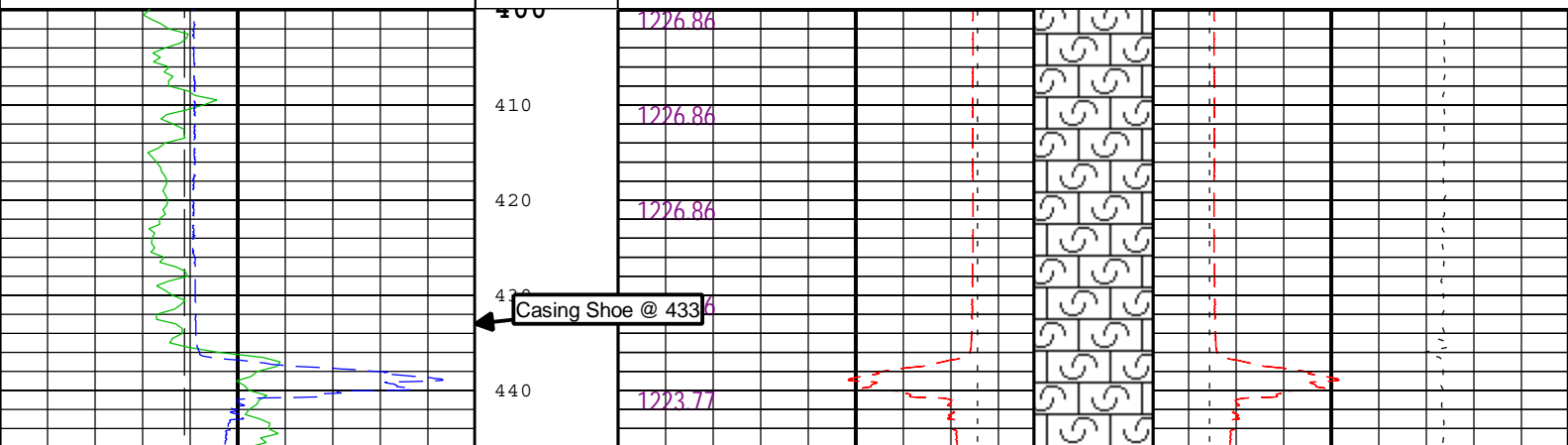
Integration Summary

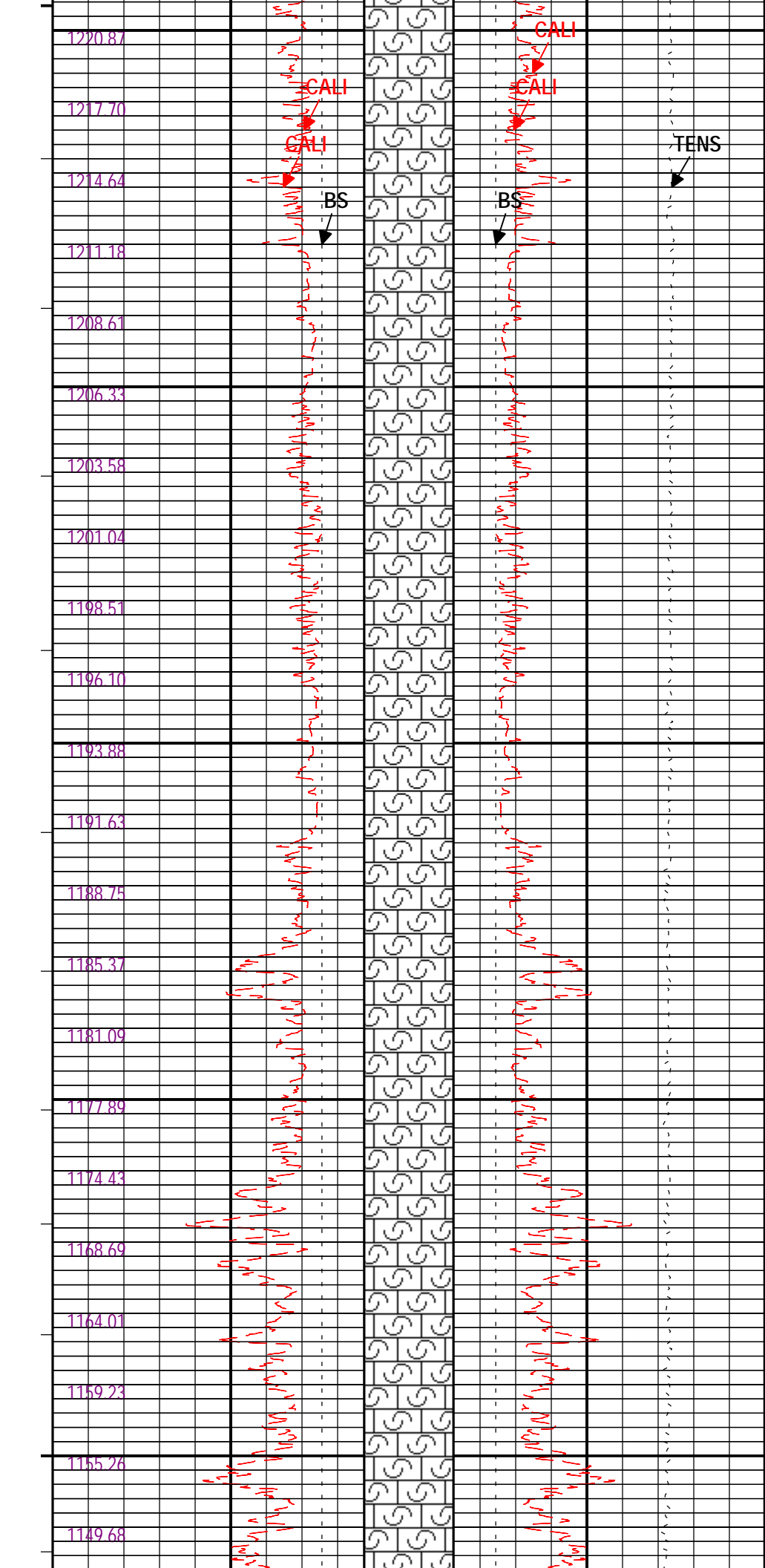
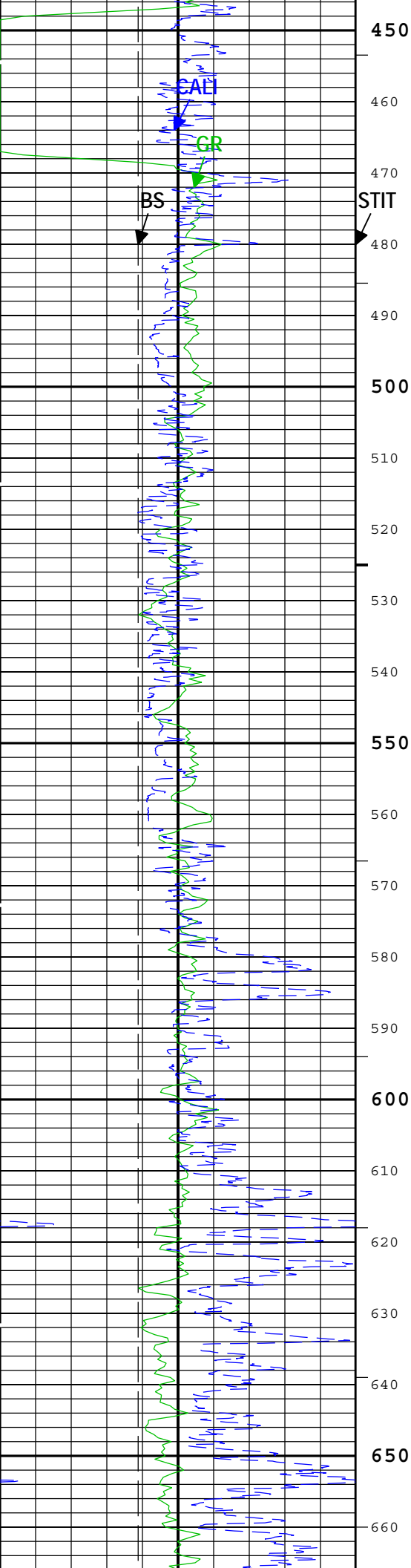
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	1226.86	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS	2107.05	ft3

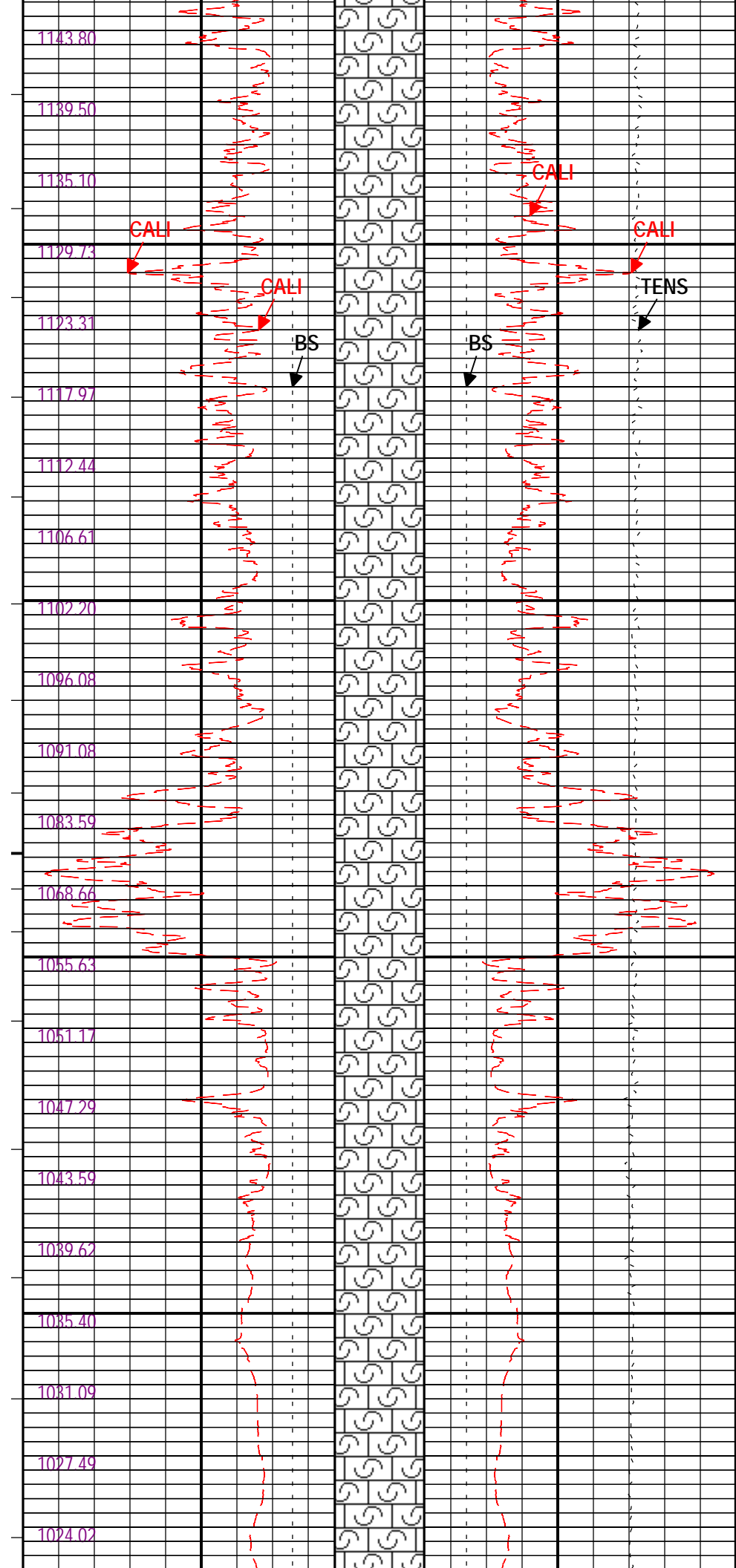
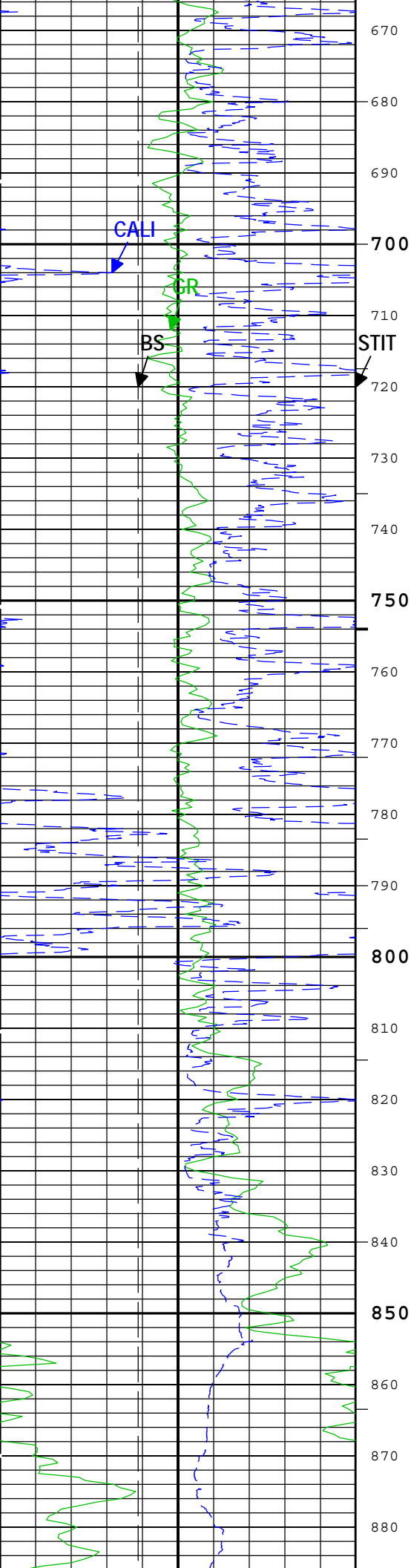
Software Version

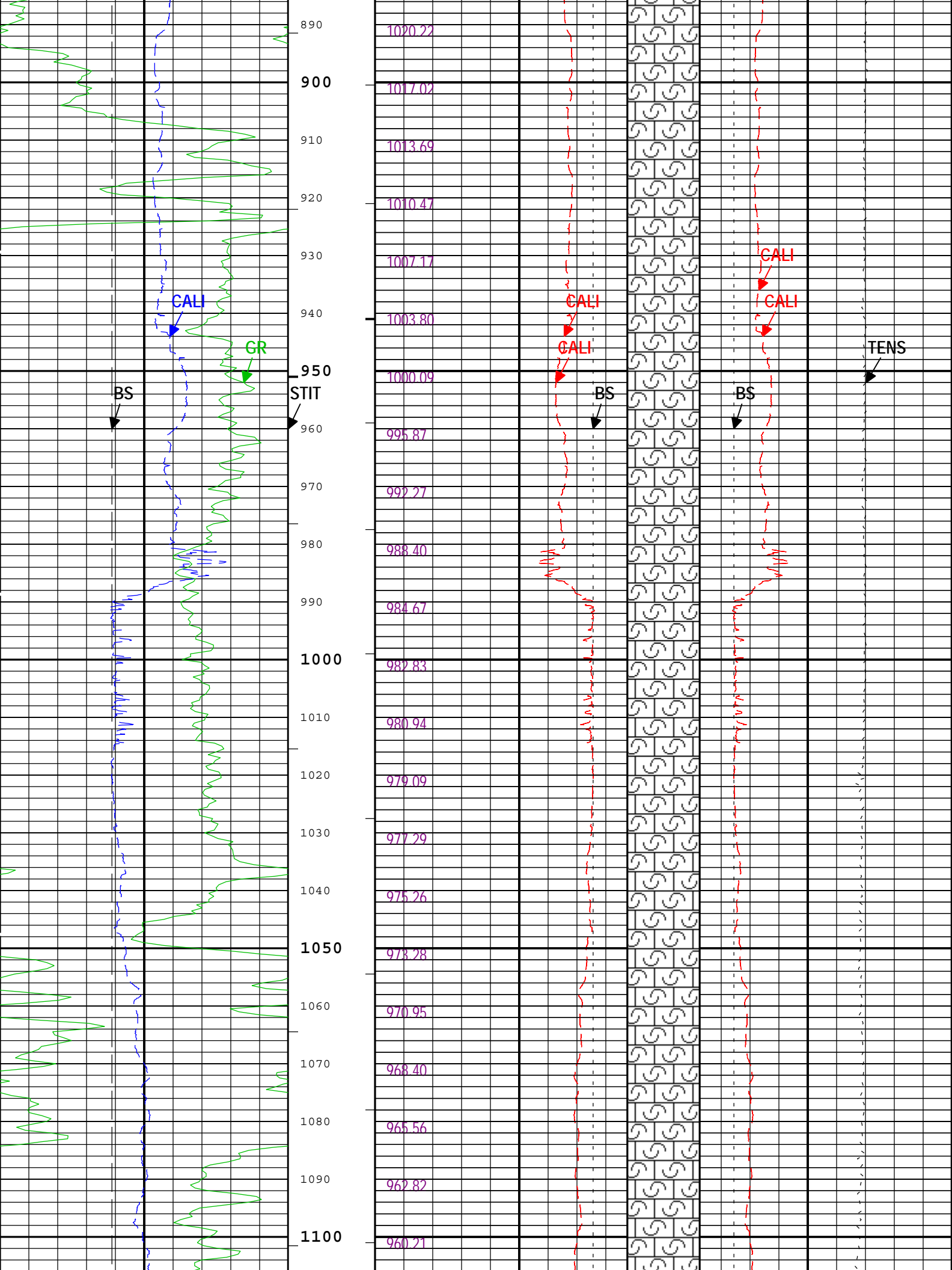
Acquisition System	Version
MaxWell	4.0.9126.3000

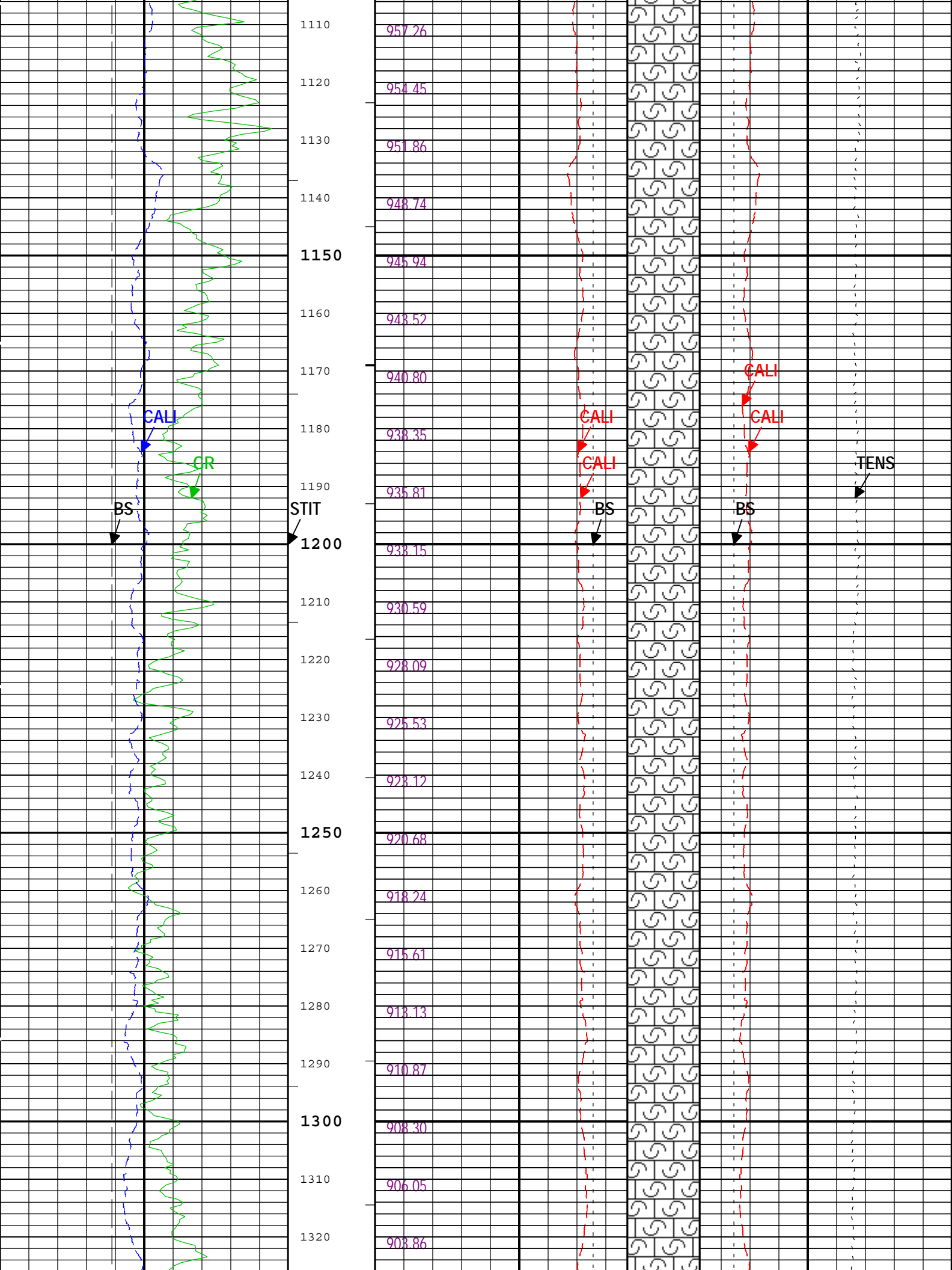
Computation	Description	Version
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels	4.0.9125.3000

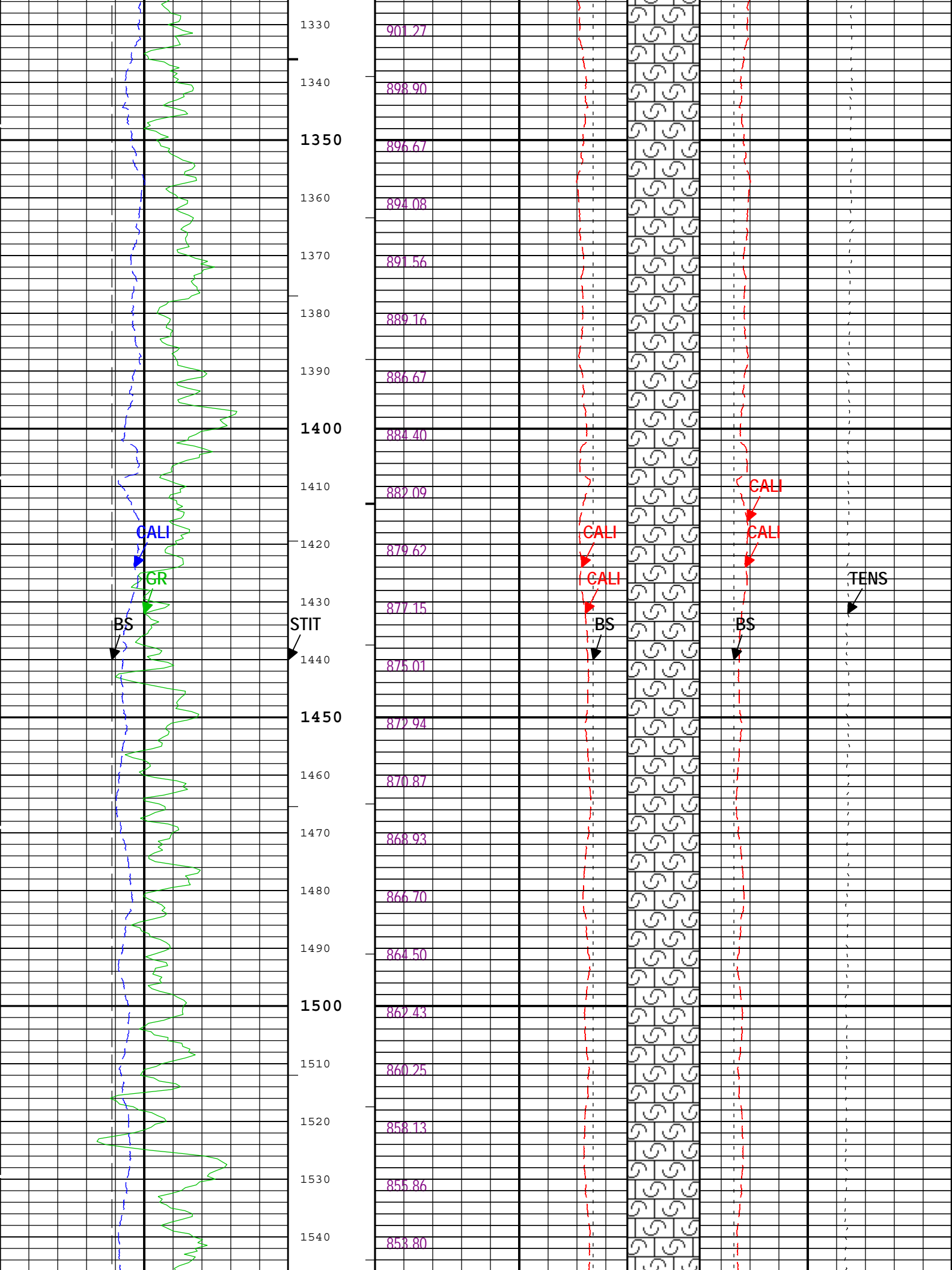


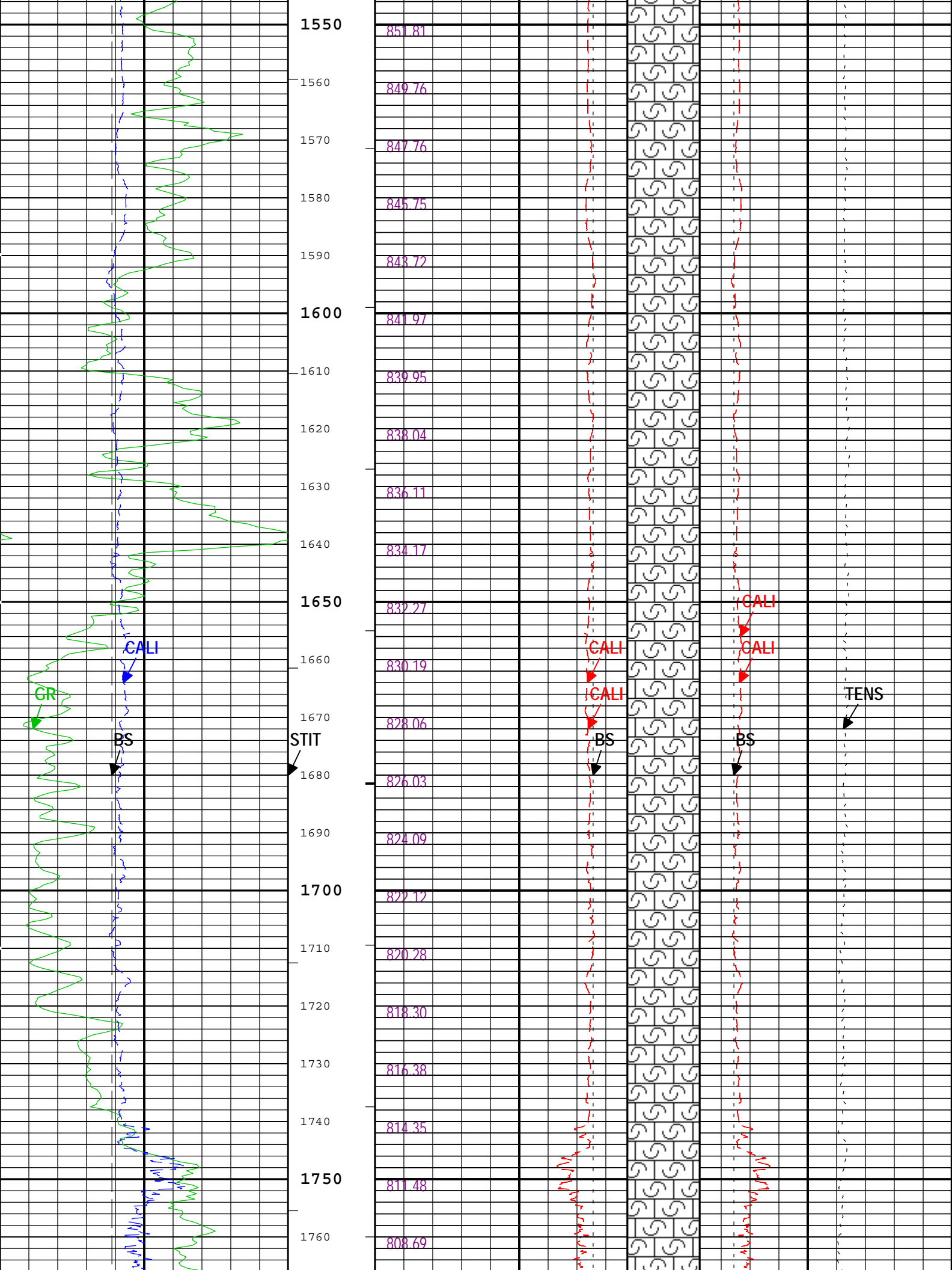


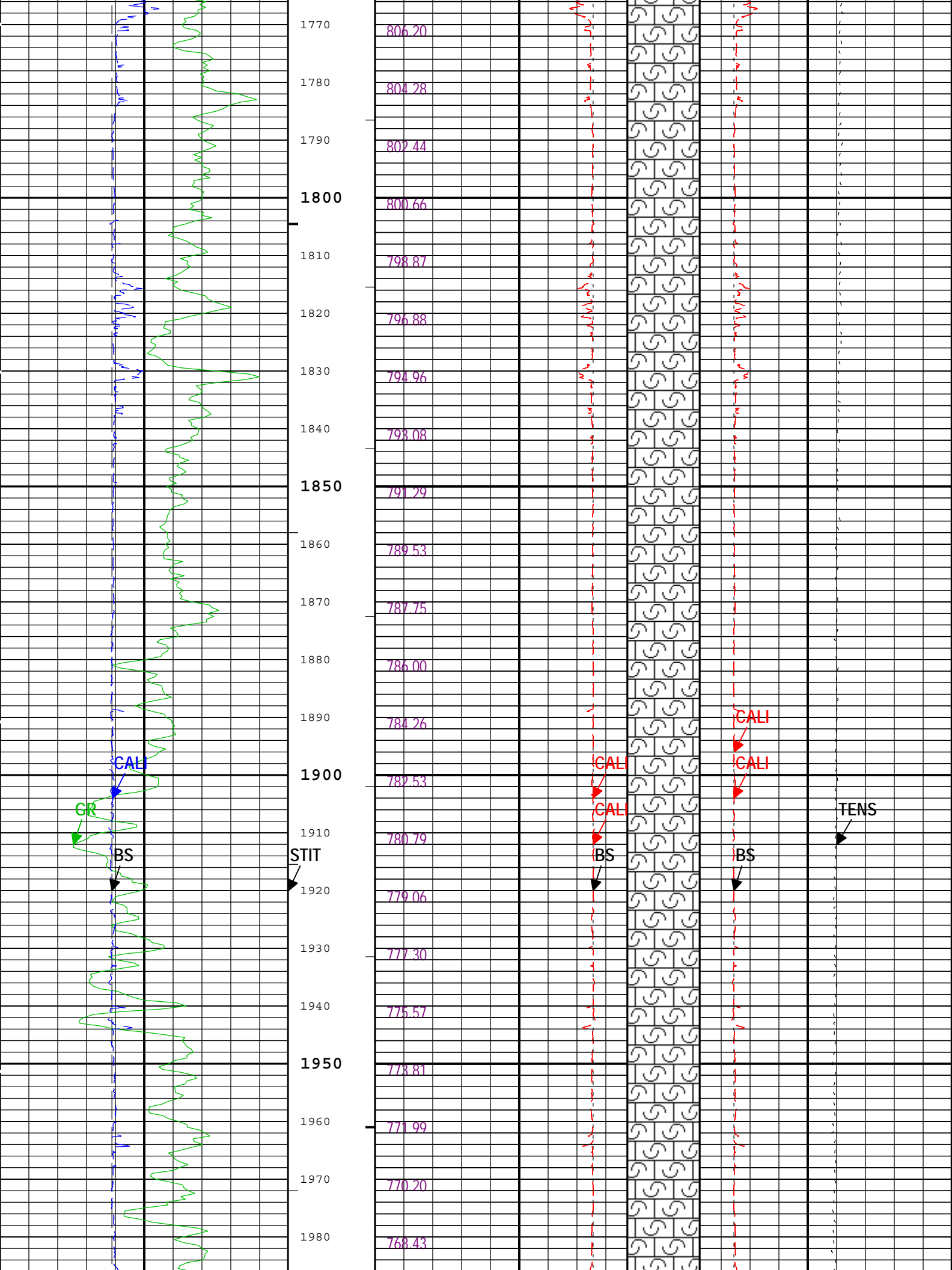


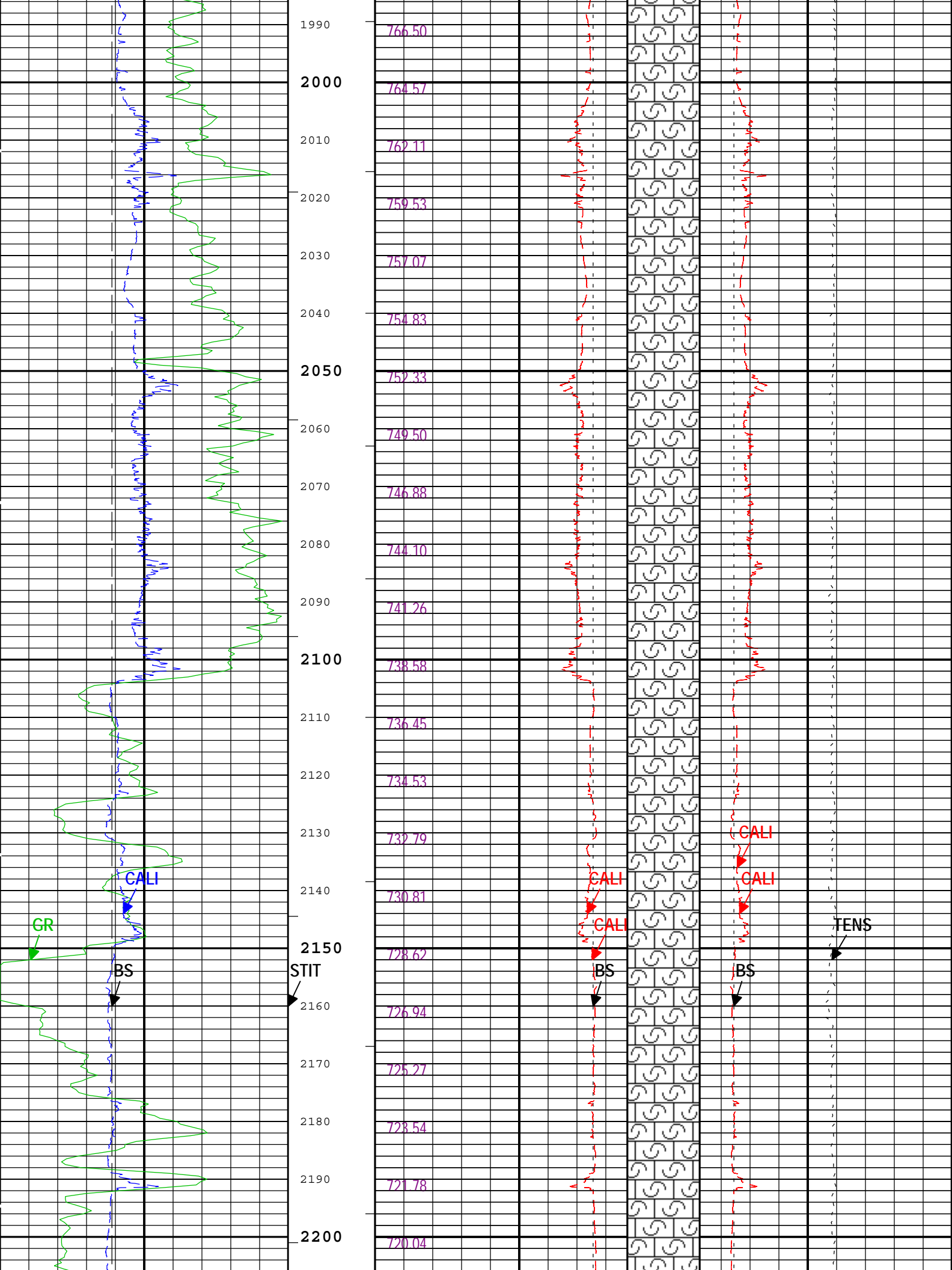


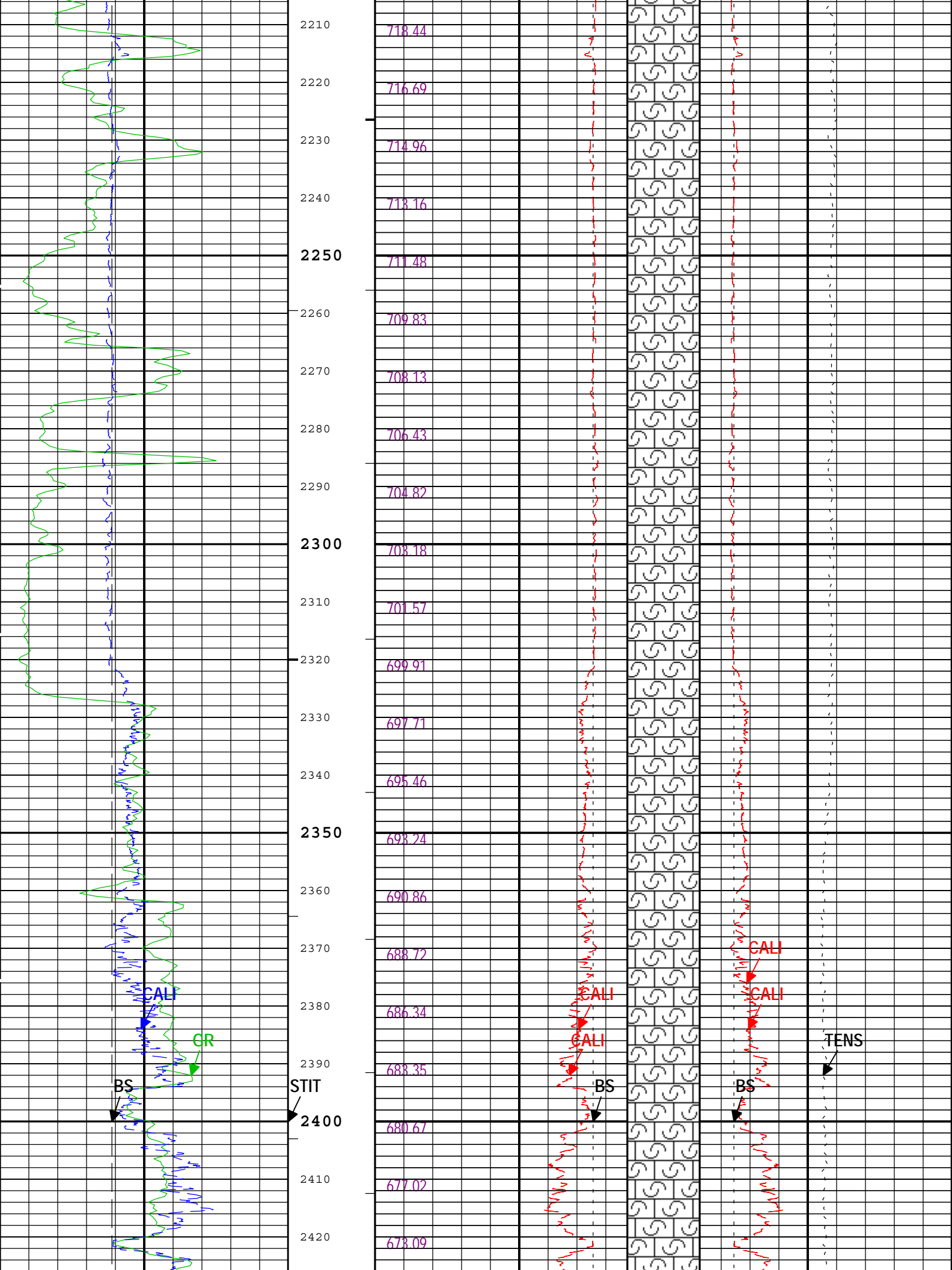


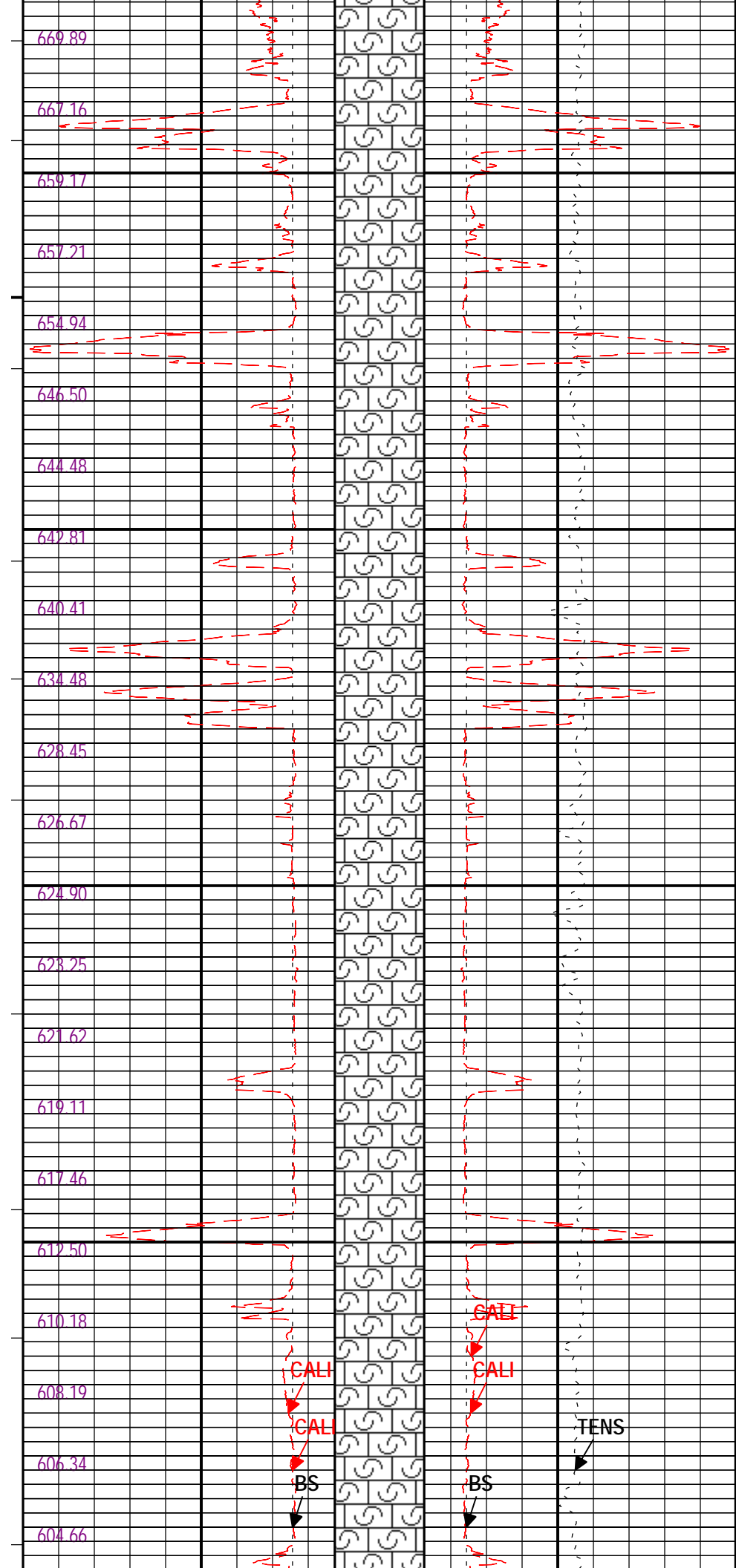
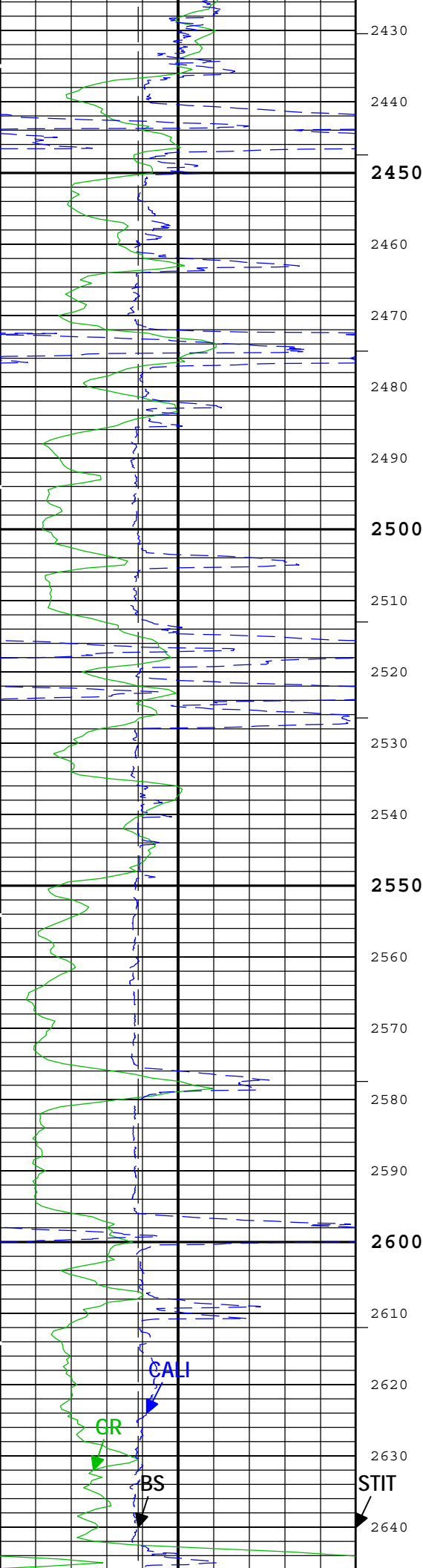


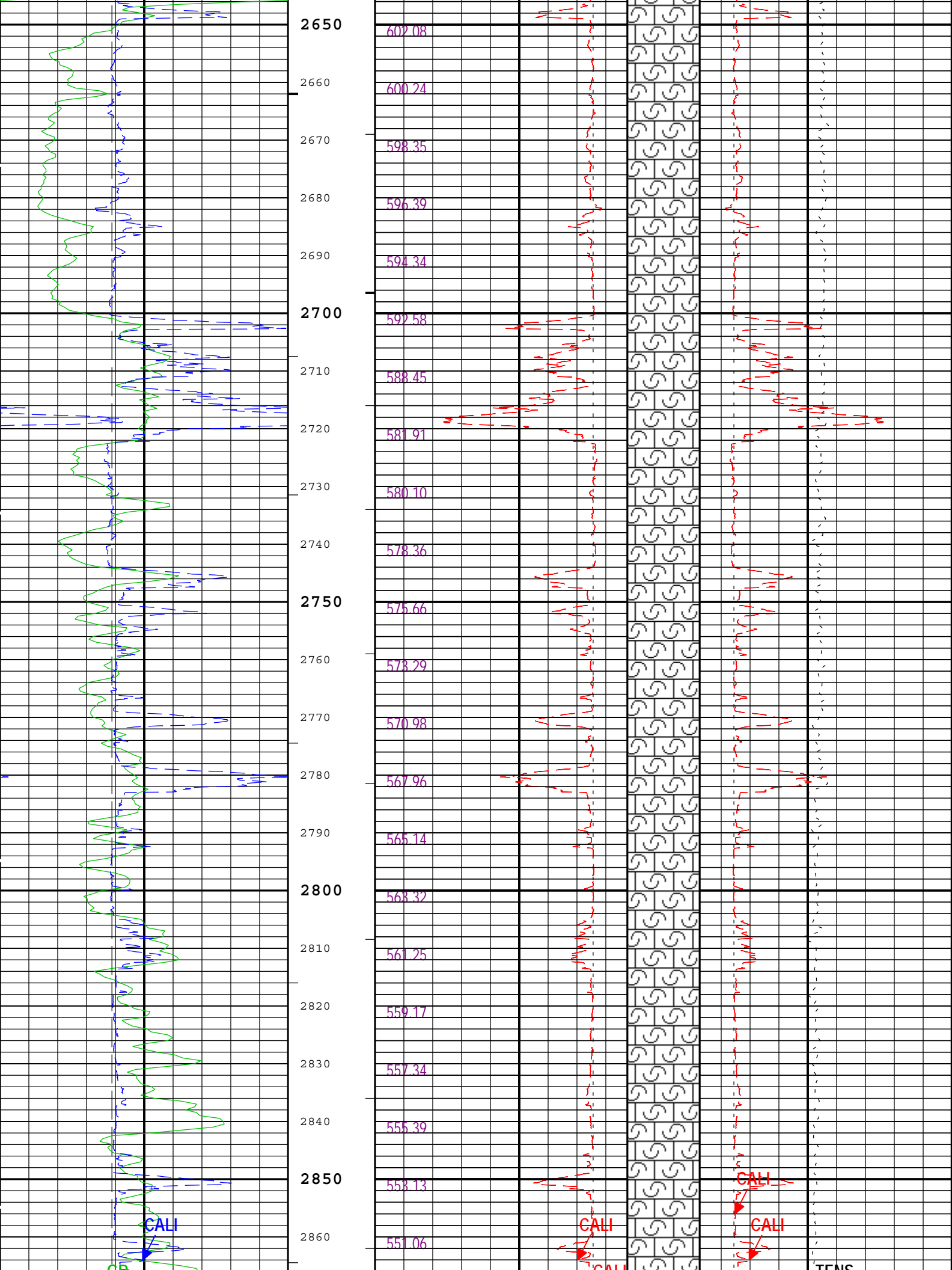


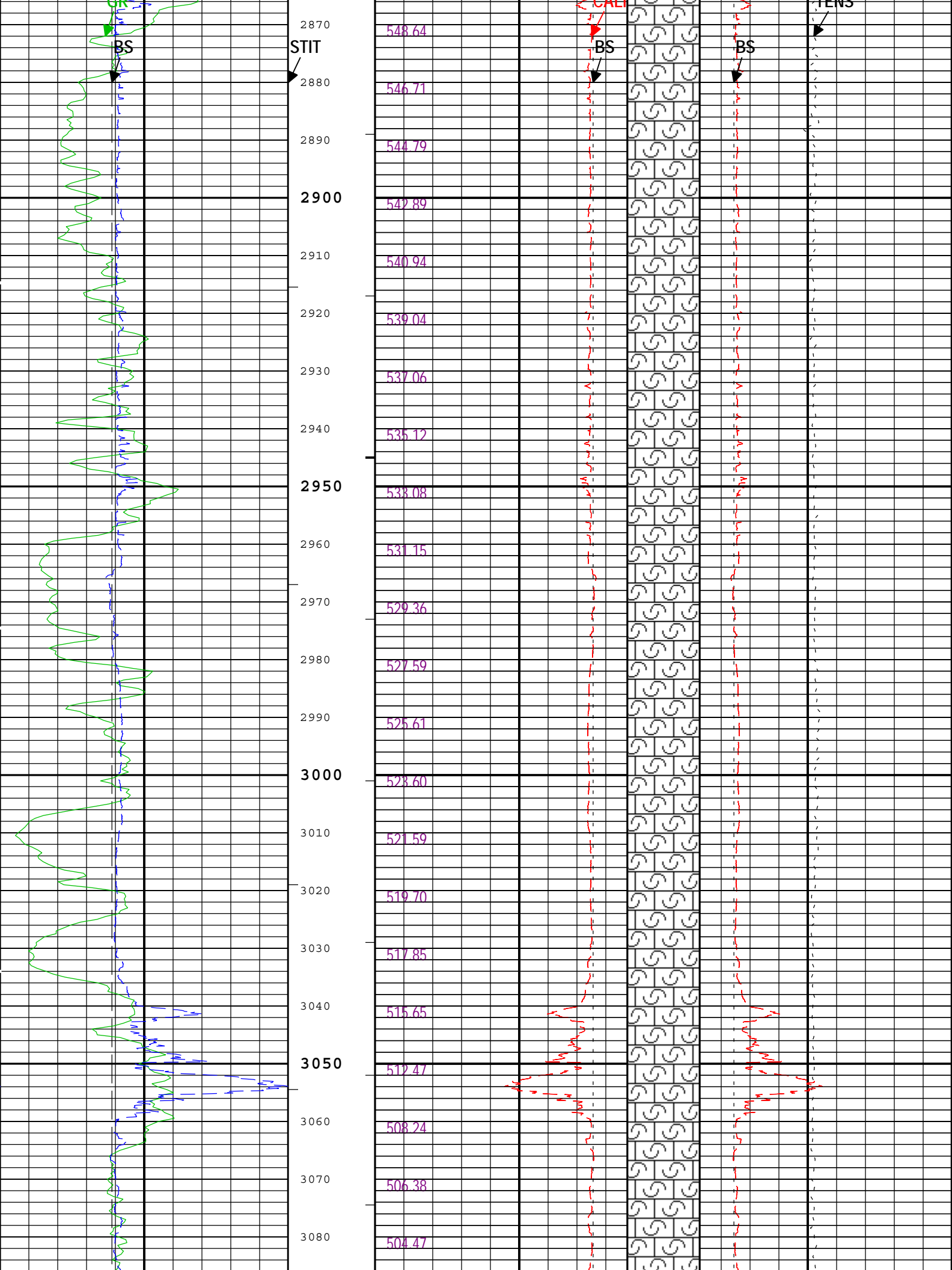


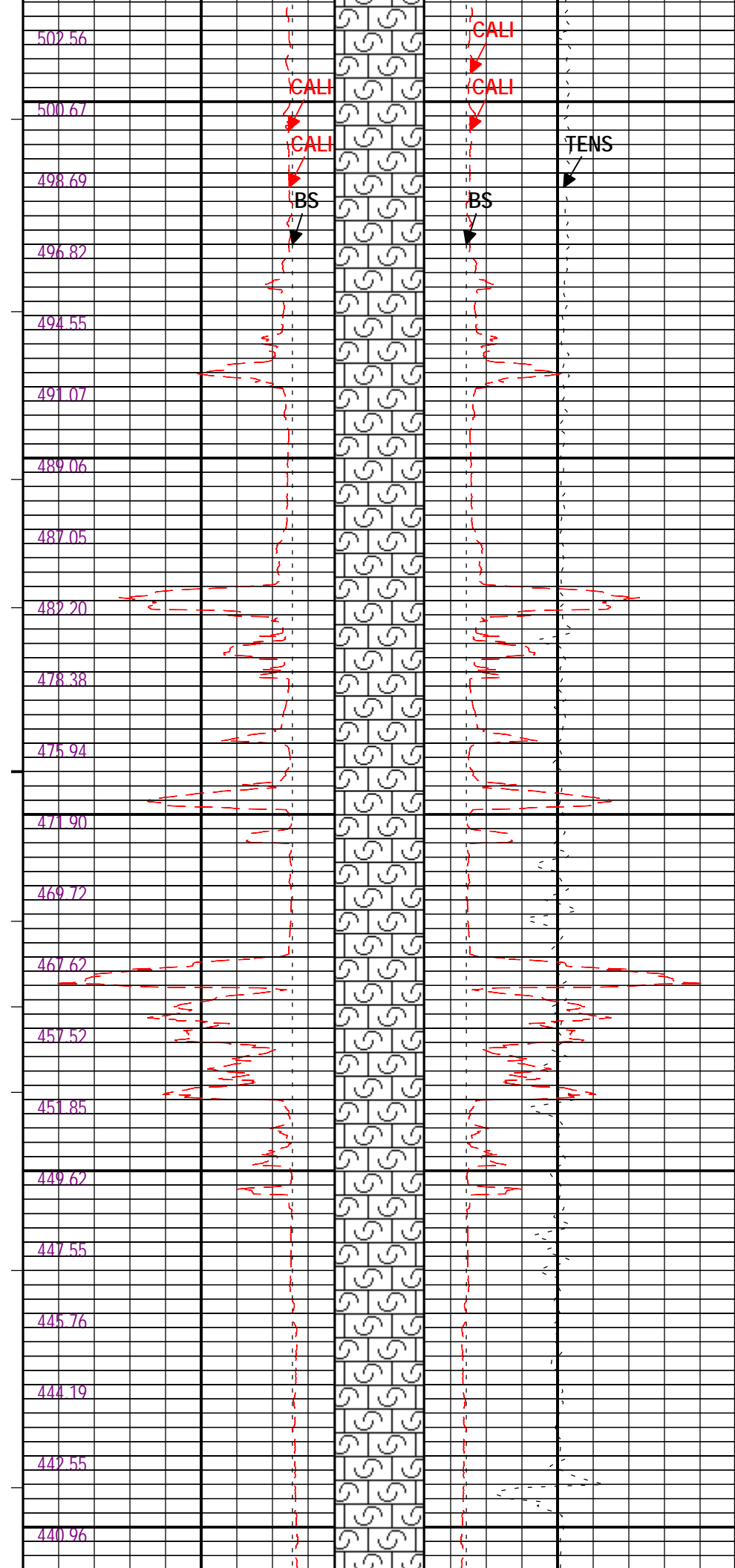
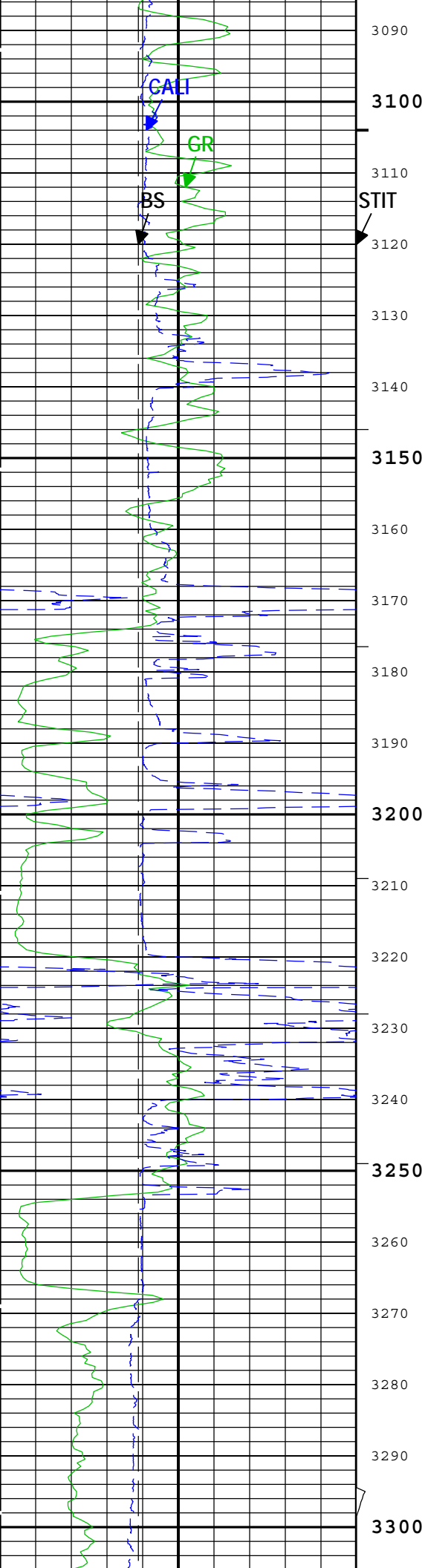


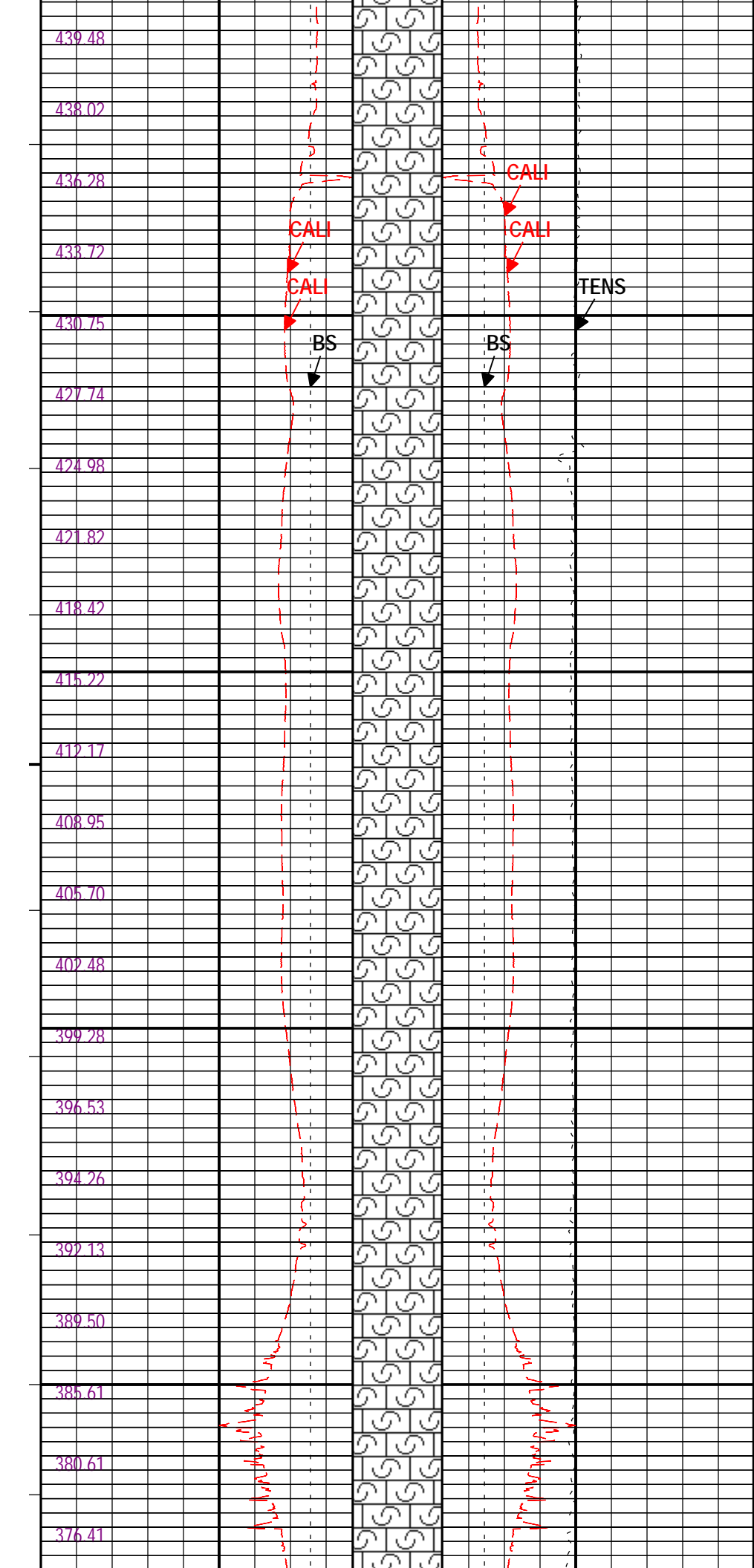
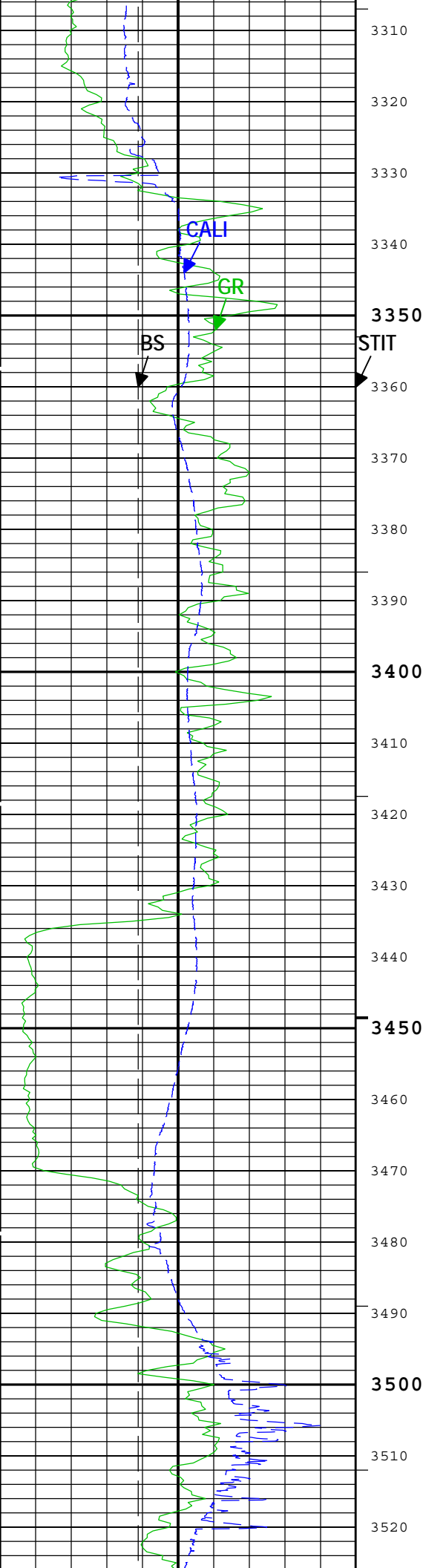


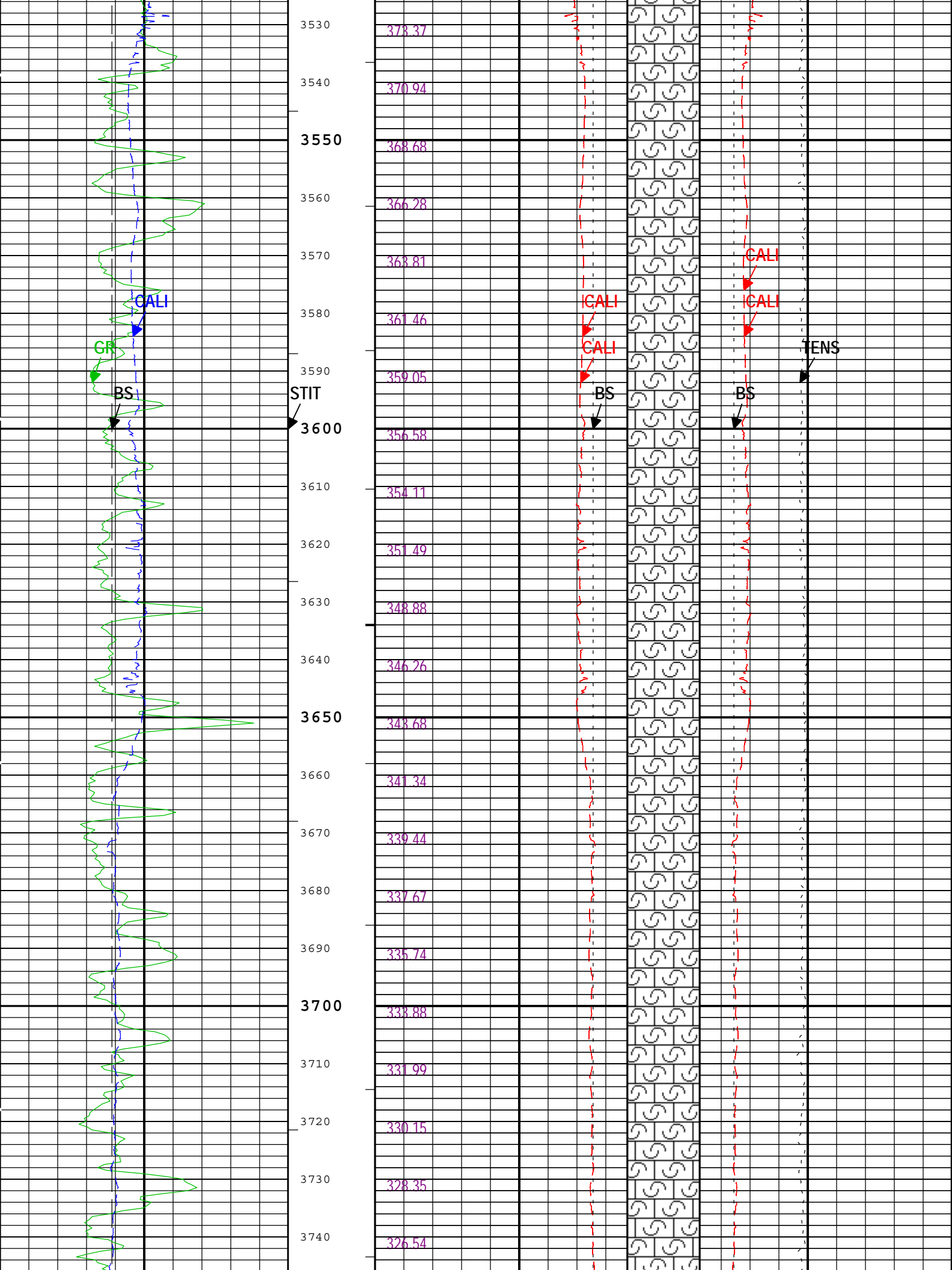


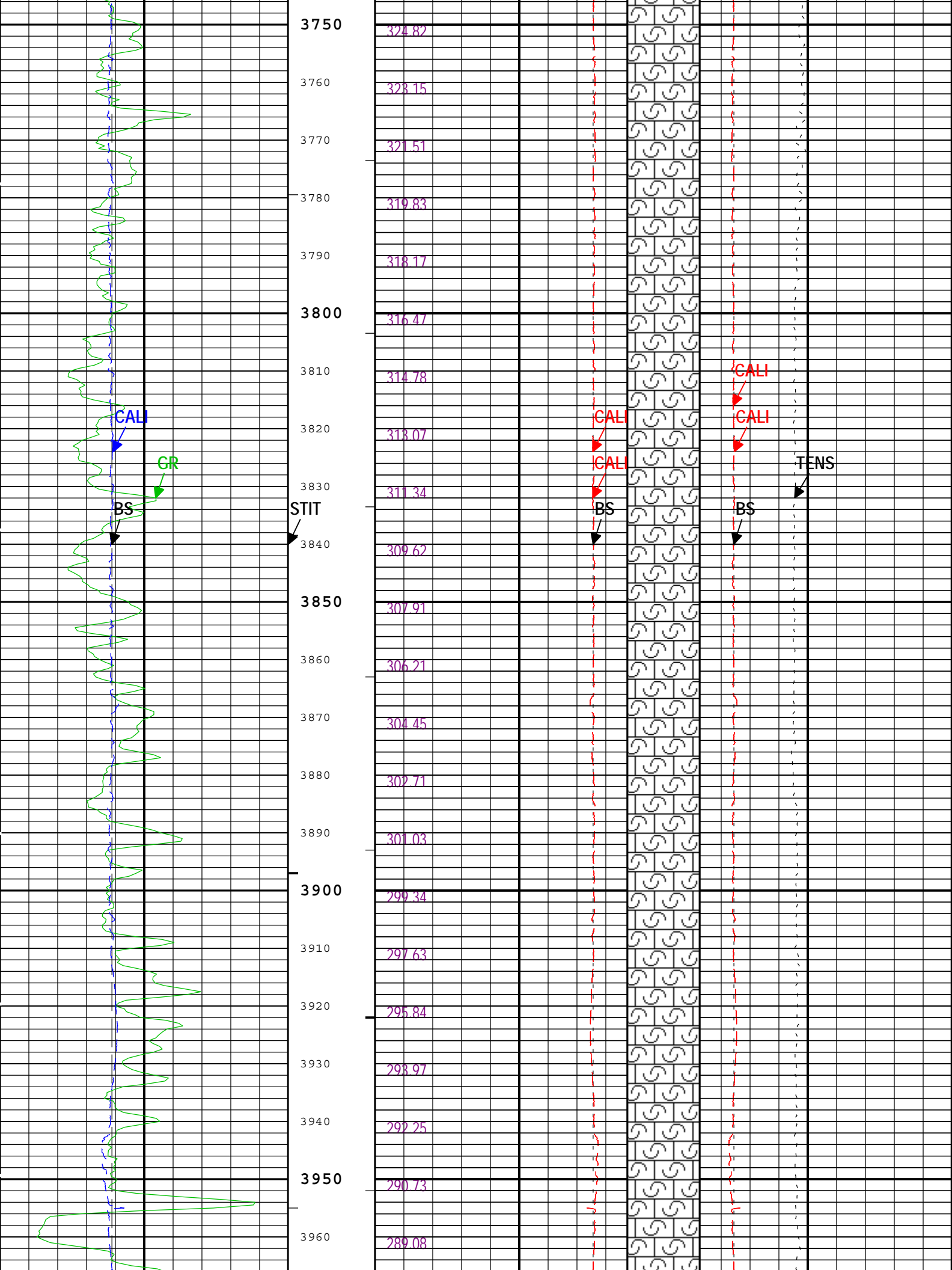


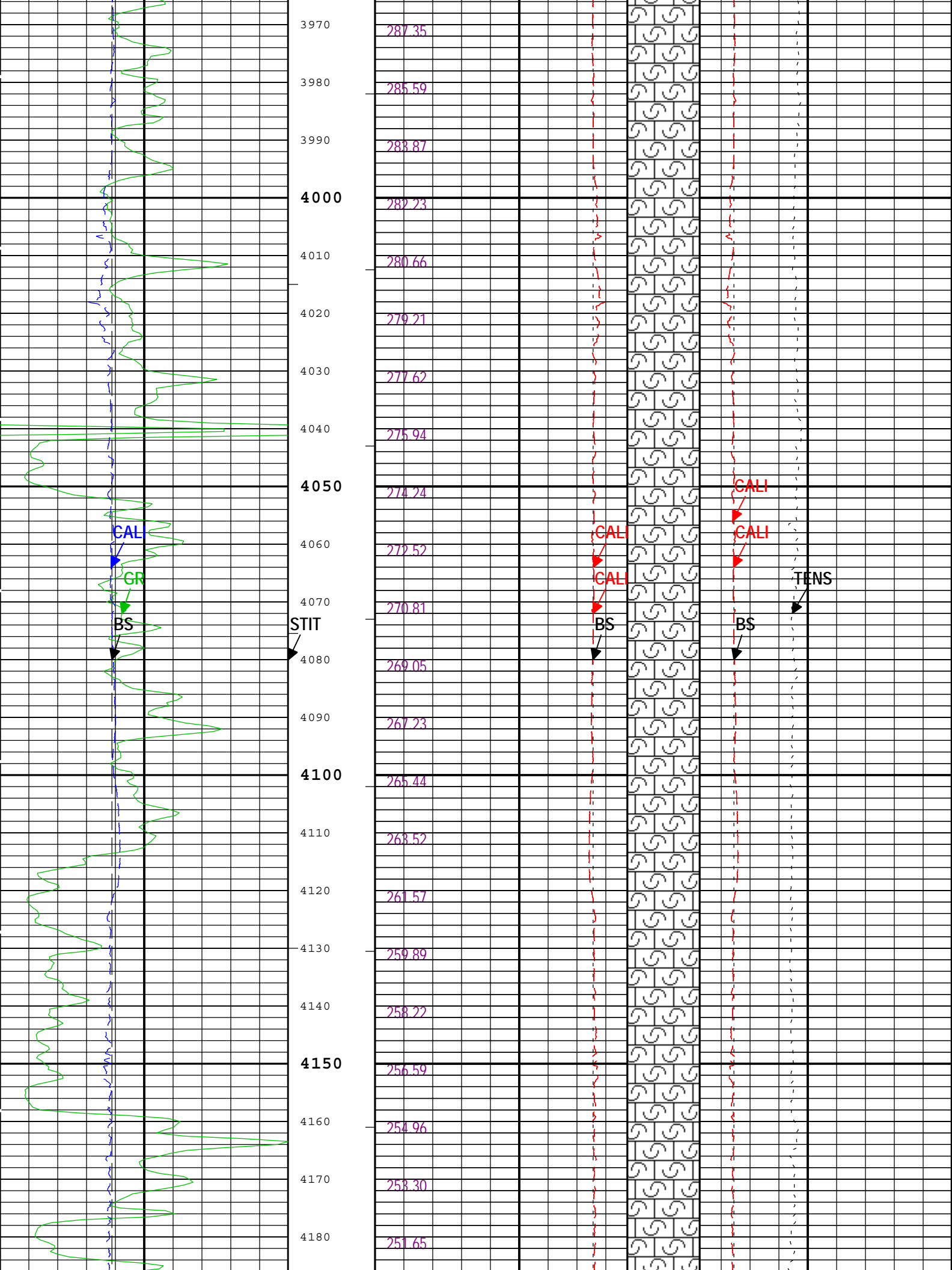


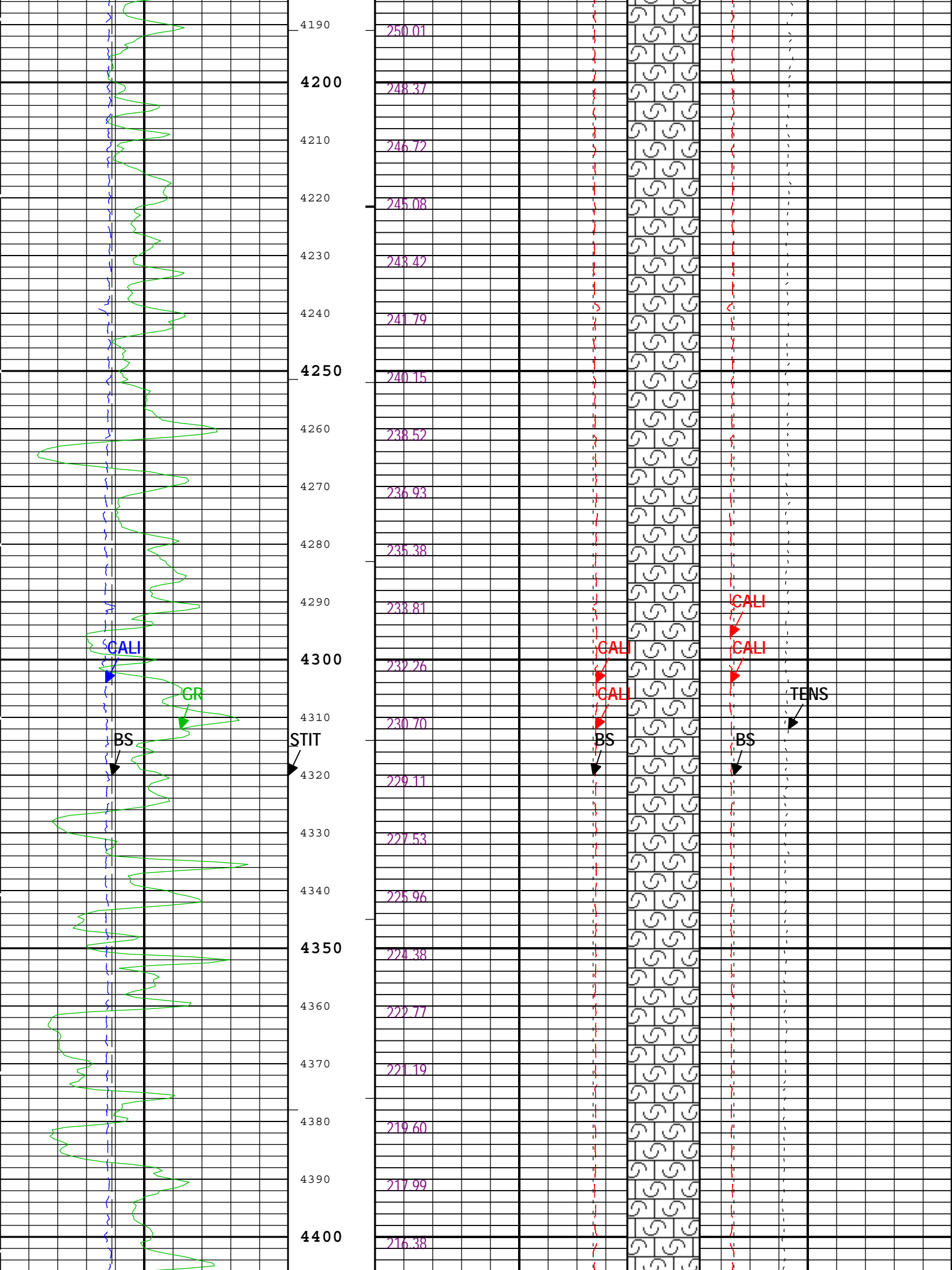


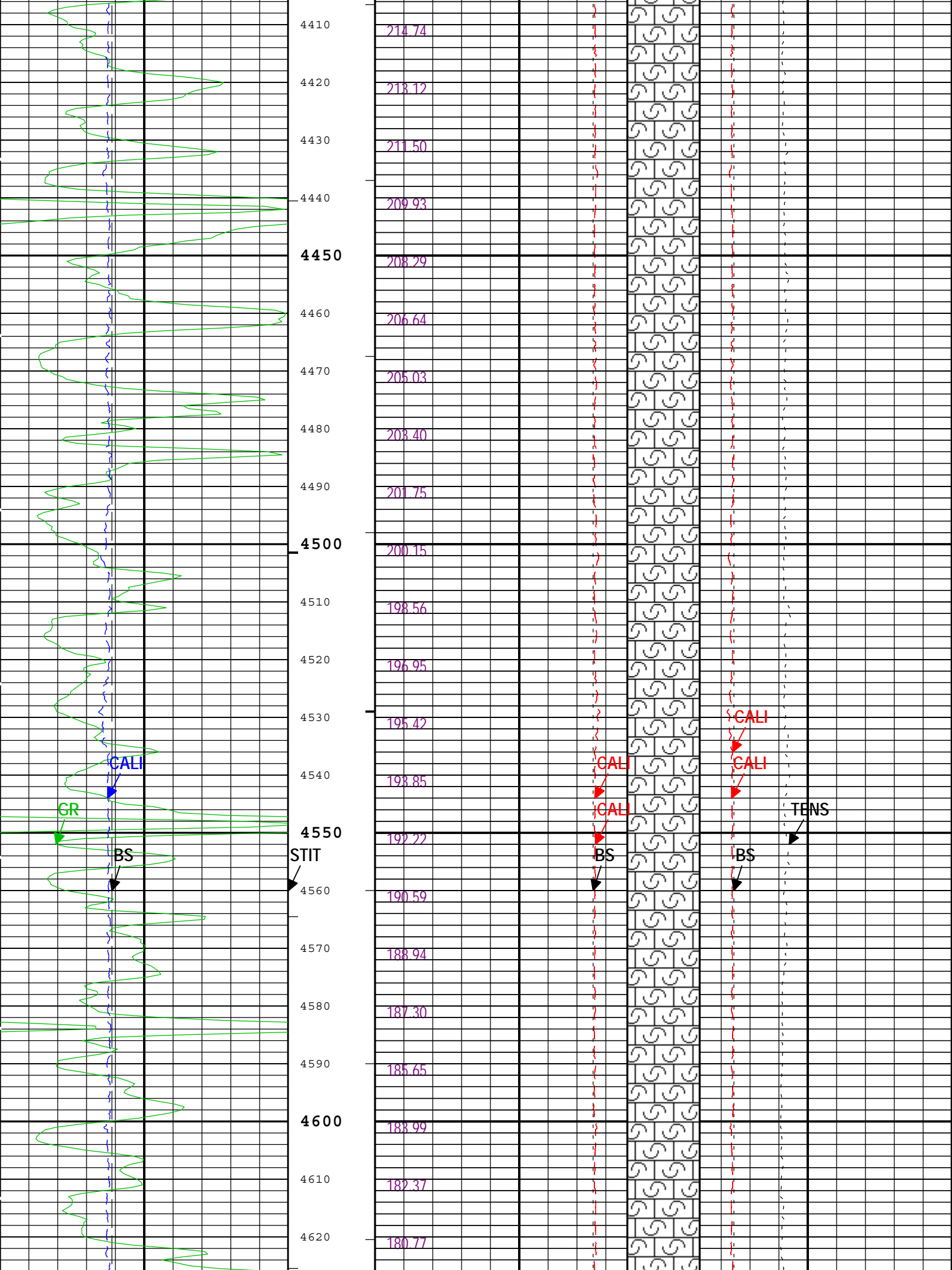


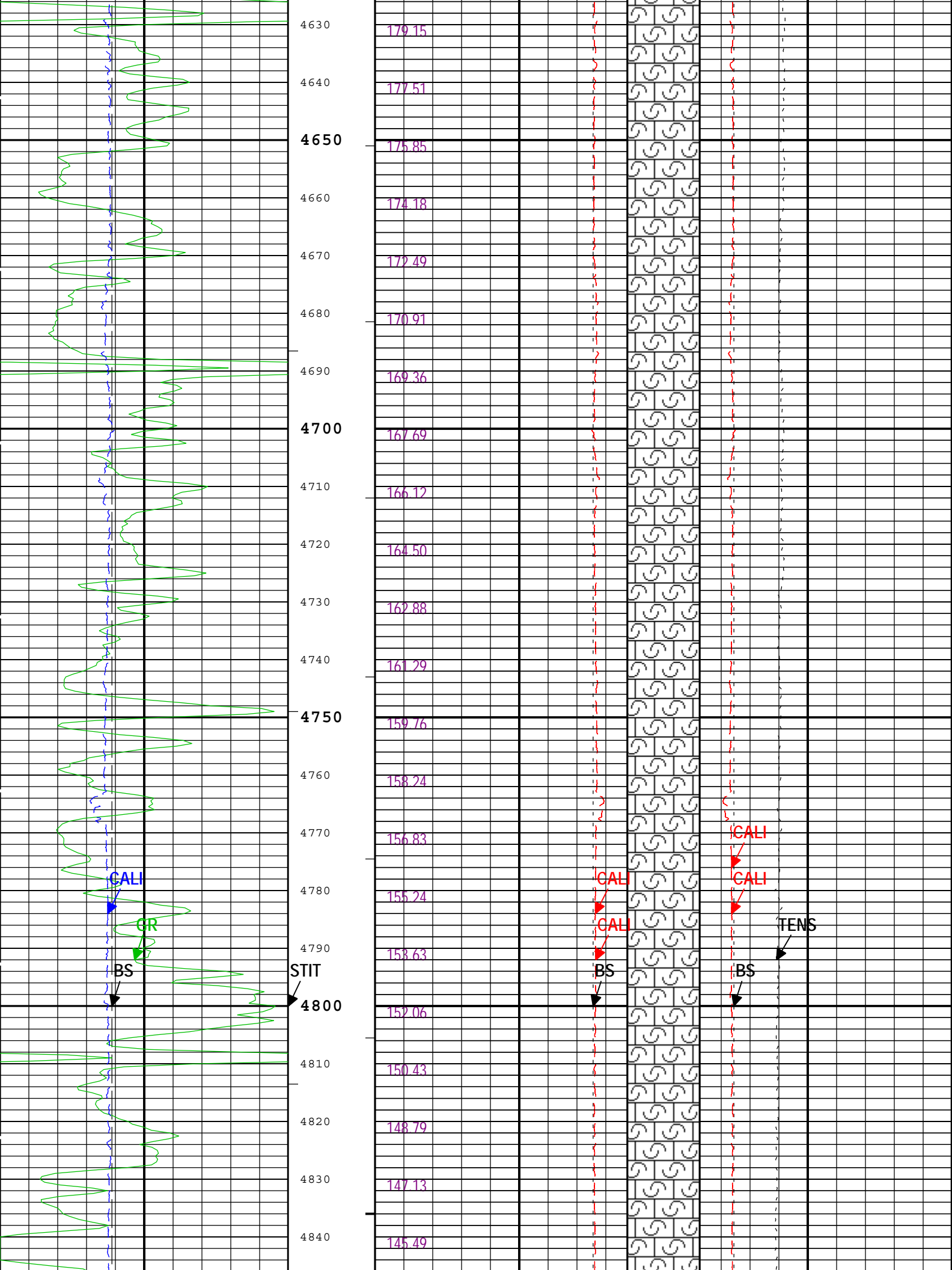


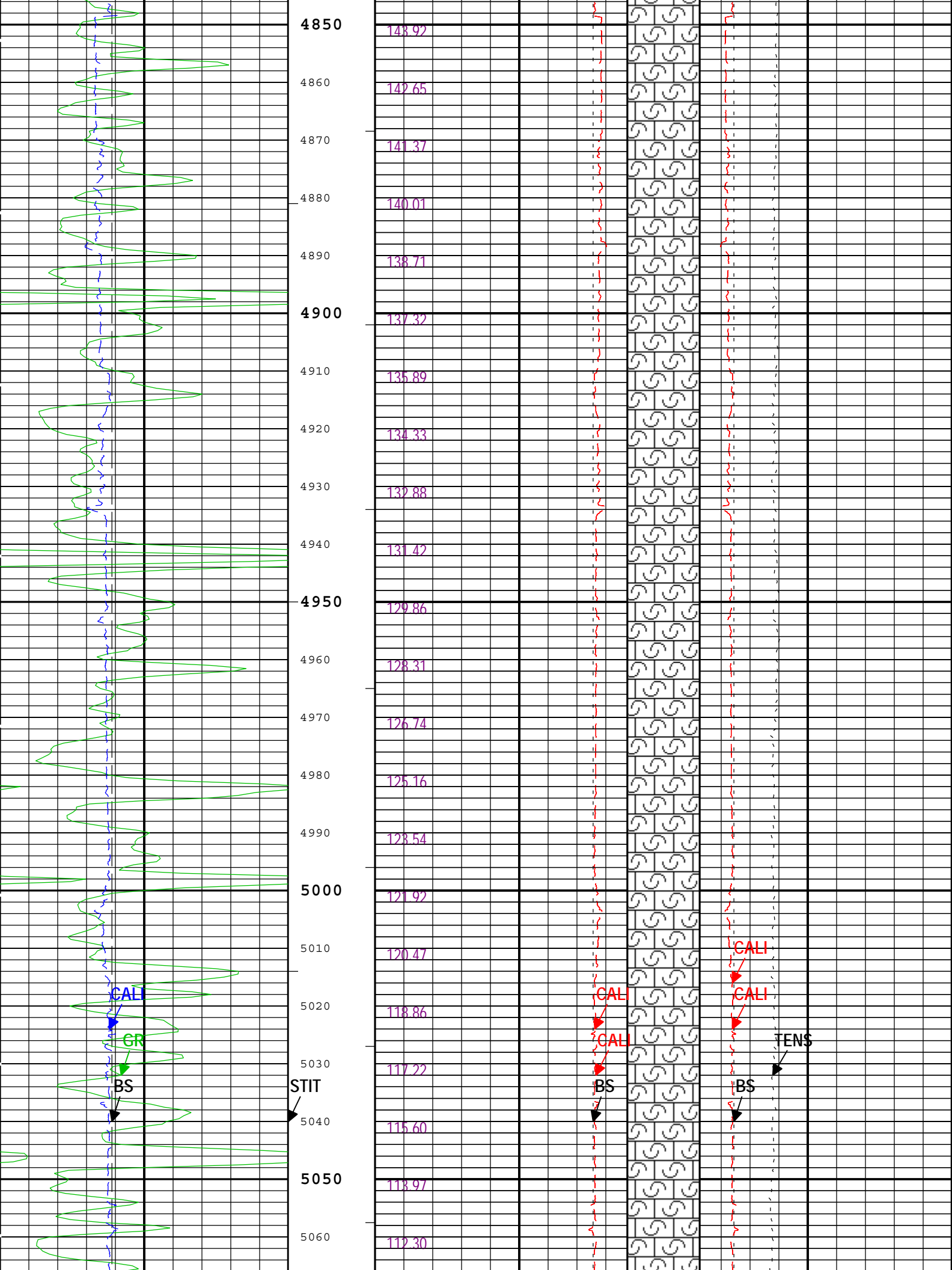


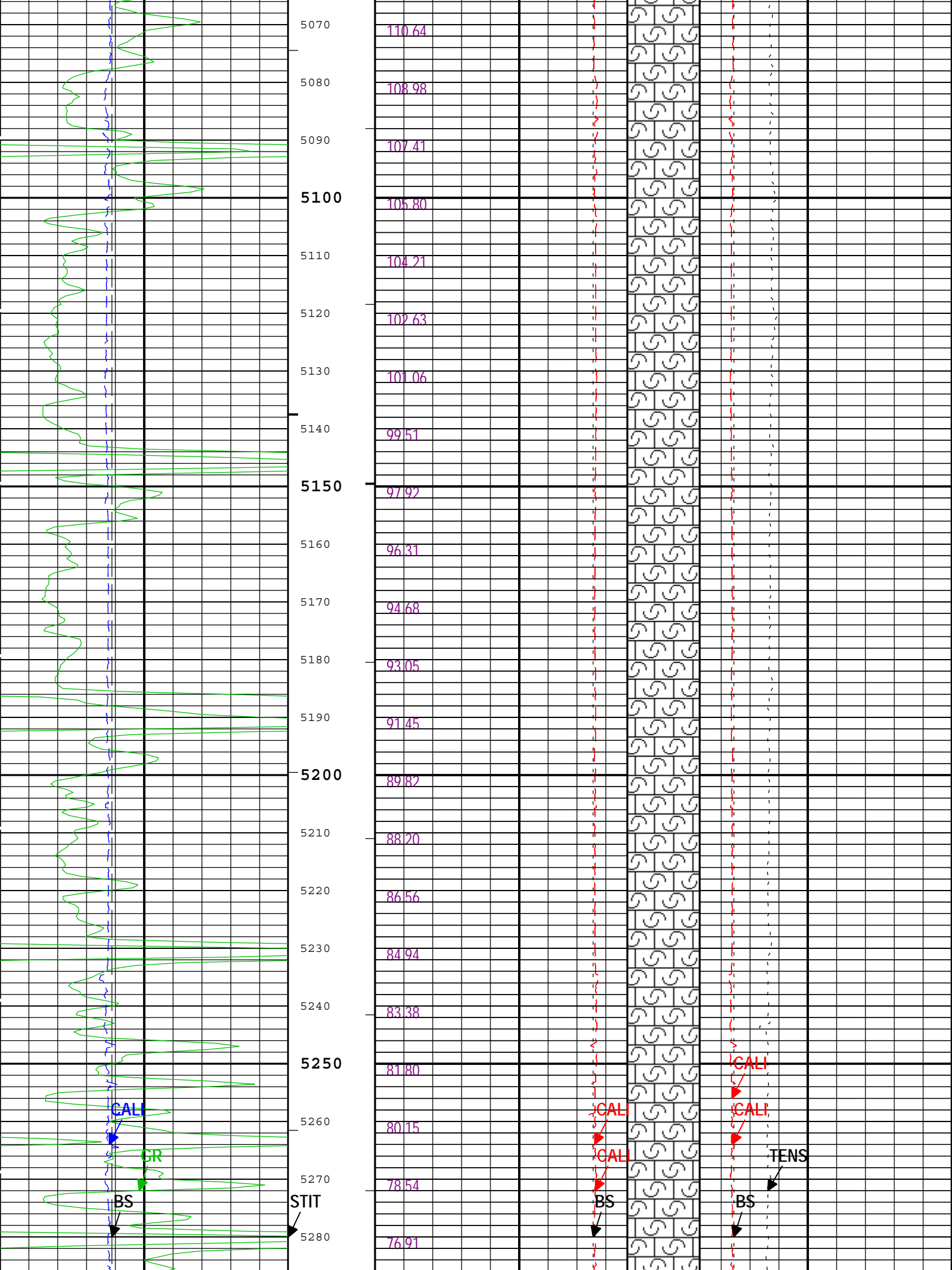


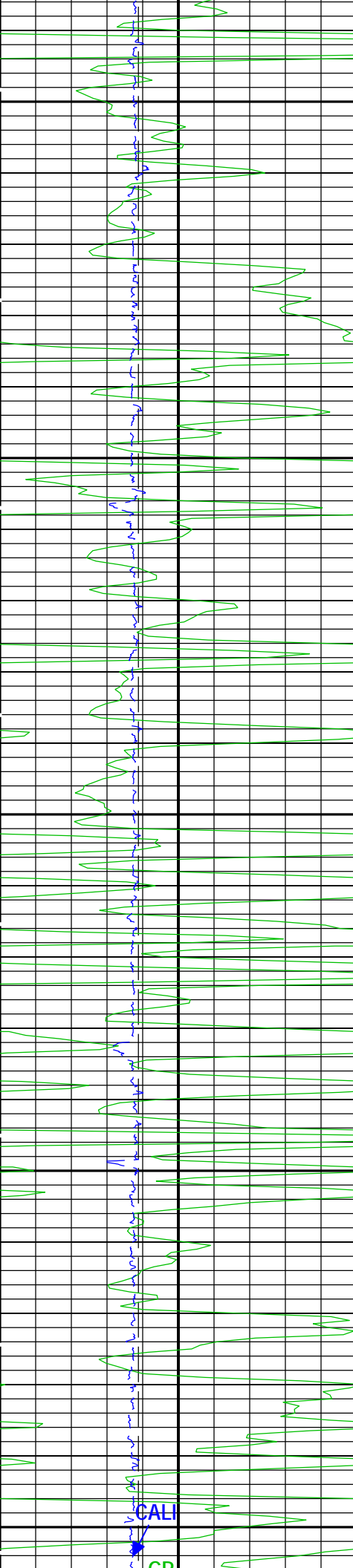












5290

5300

5310

5320

5330

5340

5350

5360

5370

5380

5390

5400

5410

5420

5430

5440

5450

5460

5470

5480

5490

5500

75.27

73.65

71.95

70.34

68.71

67.10

65.50

63.97

62.35

60.71

59.09

57.46

55.81

54.22

52.61

51.06

49.41

47.80

46.19

44.60

43.03

41.43

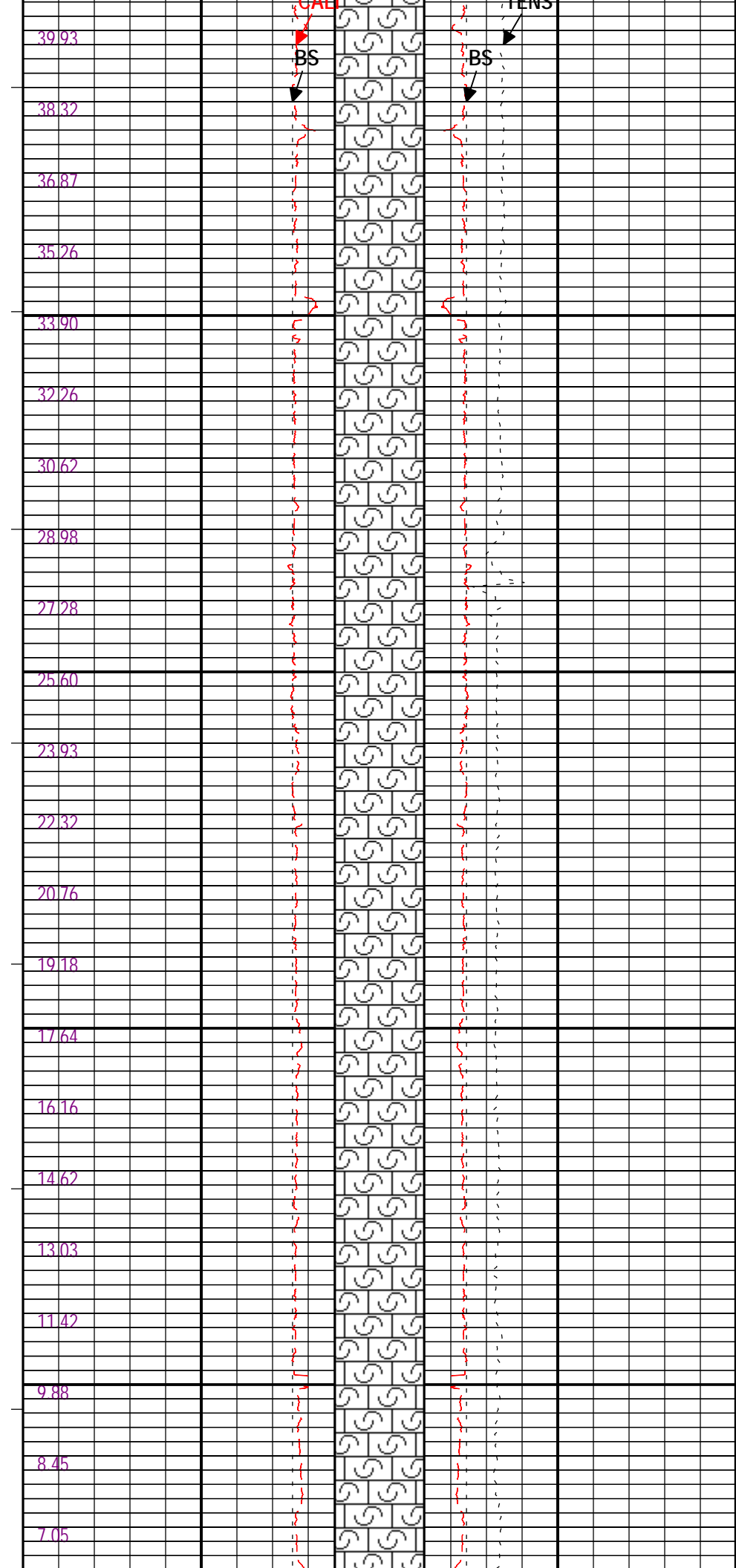
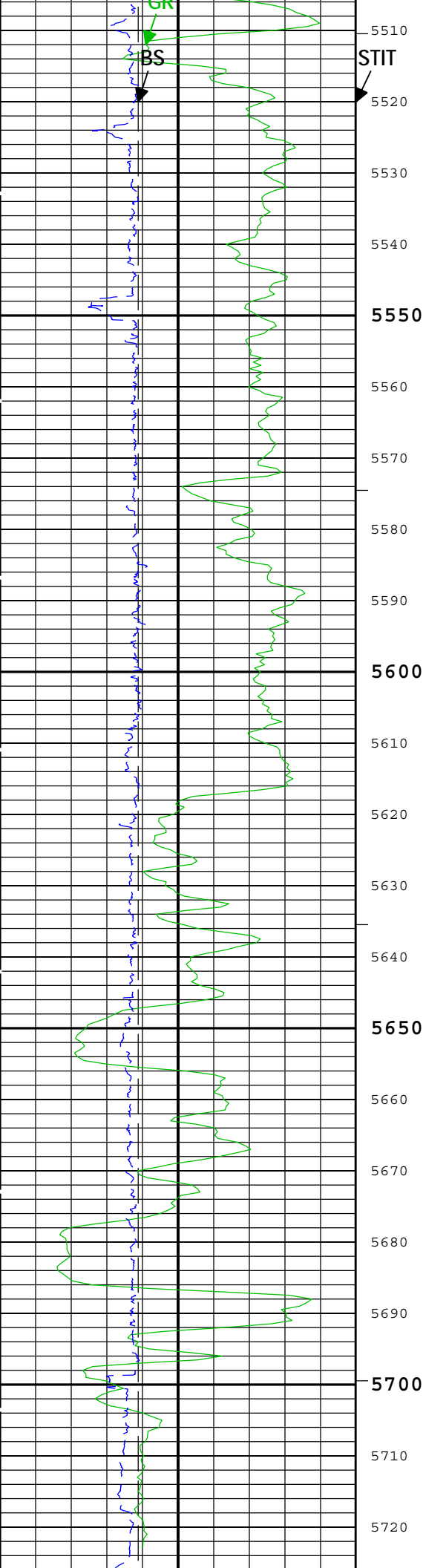
CALI

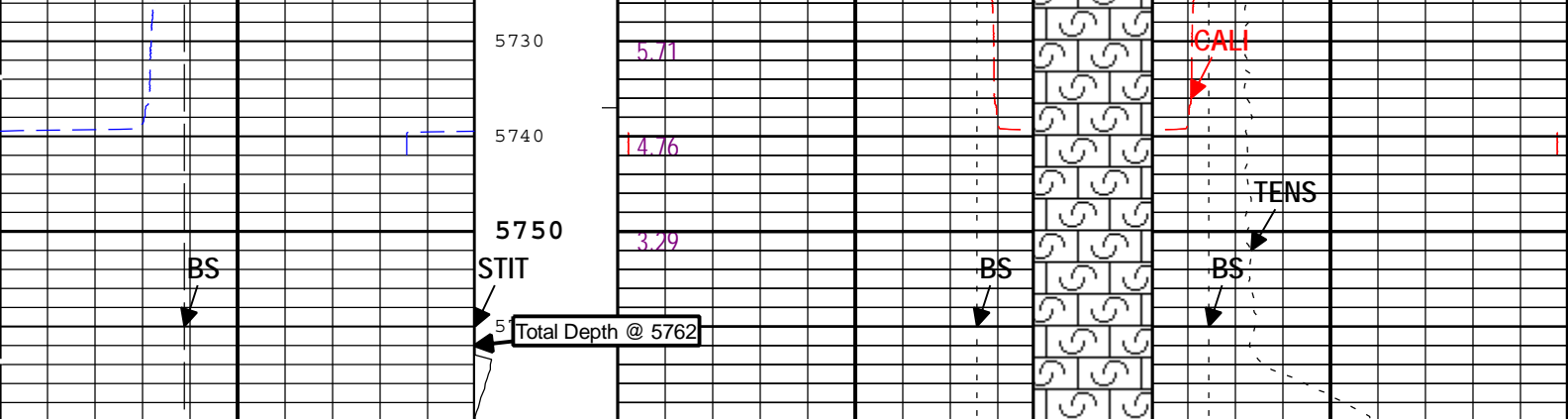
CALI

CALI

CALI

TEMP





Bit Size (BS)		Stuck Tool Indicator, Total (STIT)		Future Casing (Outer) Diameter (FCD)	
4	in	14	0 ft 50	-17	23
Gamma Ray (GR) HGNS-B		0		Future Casing (Outer) Diameter (FCD)	
gAPI		200		23 in -17	
Caliper (CALI) HDRS-B		4		Bit Size (BS)	
in		14		23 in 3 3	
				Caliper (CALI) HDRS-B	
				23 in 3 3	
				Cable Tension (TENS)	
				23 in 3 3	
				5000 lbf 0	
				Caliper (CALI) HDRS-B	
				23 in 3 3	
				Caliper (CALI) HDRS-B	
				3 in 23	
				Integrated Cement Volume (ICV) 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: 04-Oct-2013 05:46:37

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	7.875	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-B	0.2	in
CBLO	Casing Bottom (Logger)	WLSESSION	433	ft
CDEN	Cement Density	HGNS-B	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	8.625	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.2	lbm/gal
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	5762	ft

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

Company:	Vecta Oil & Gas LTD	Schlumberger
Well:	Snowmass 32-32	
Field:	Wildcat	
County:	Cheyenne	
State:	Colorado	
Platform Express		
Caliper		
Cement Volume		