

Company:		Vecta Oil & Gas LTD		Schlumberger	
Well:		Maroon 24-20			
Field:		Wildcat			
County:		Cheyenne		State: Colorado	
County: Cheyenne  State: Colorado		Platform Express			
		Caliper			
		Cement Volume			
		Location:			
		SE/SW Sec. 20, Twn 14 S, Rng 47 W		Elev. K.B. 4253.00 ft	
		SHL: 888' FSL & 1,499' FWL		G.L. 4242.00 ft	
				D.F. 4252.00 ft	
		Permanent Datum:		Ground Level	
		Log Measured From:		Kelly Bushing	
		Drilling Measured From:		Kelly Bushing	
		API Serial No.		Section: 20	
		05-017-07718-0000		Township: 47 W	
				Range: 47 W	
Logging Date		19-Nov-2012			
Run Number		Run-1			
Depth Driller		5445.00 ft			
Schlumberger Depth		5442.00 ft			
Bottom Log Interval		5442.00 ft			
Top Log Interval		431.00 ft			
Casing Driller Size @ Depth		8.625 in @ 434.00 ft			
Casing Schlumberger		431 ft			
Bit Size		7.875 in			
Type Fluid In Hole		Gel Chemical			
MUD	Density	9.2 lbm/gal		58 s	
	Fluid Loss	8.8 cm3		9	
	Source of Sample	Flowline			
RM @ Meas Temp		2.59 ohm.m @ 51.6 degF			
RMF @ Meas Temp		1.94 ohm.m @ 51.6 degF			
RMC @ Meas Temp		3.24 ohm.m @ 51.6 degF			
Source RMF		RMC		Calculated	
RM @ BHT		0.81 @ 180 0.61 @ 180			
Max Recorded Temperatures		130 degF			
Circulation Stopped		19-Nov-2012 14:00:00			
Logger on Bottom		Time			
Unit Number		Location:		Time	
Recorded By		Stan Thompson		Fort Morgan, CO	
Witnessed By		Larry Schneider & Ryan			

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

434.00 ft

Casing 8.625in  
24lbm/ft

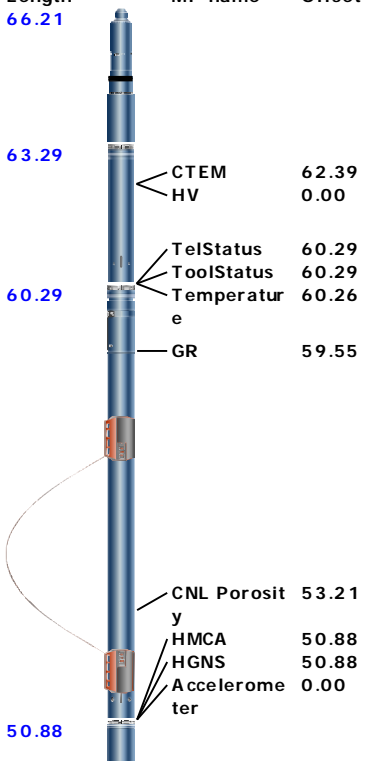
5445.00 ft

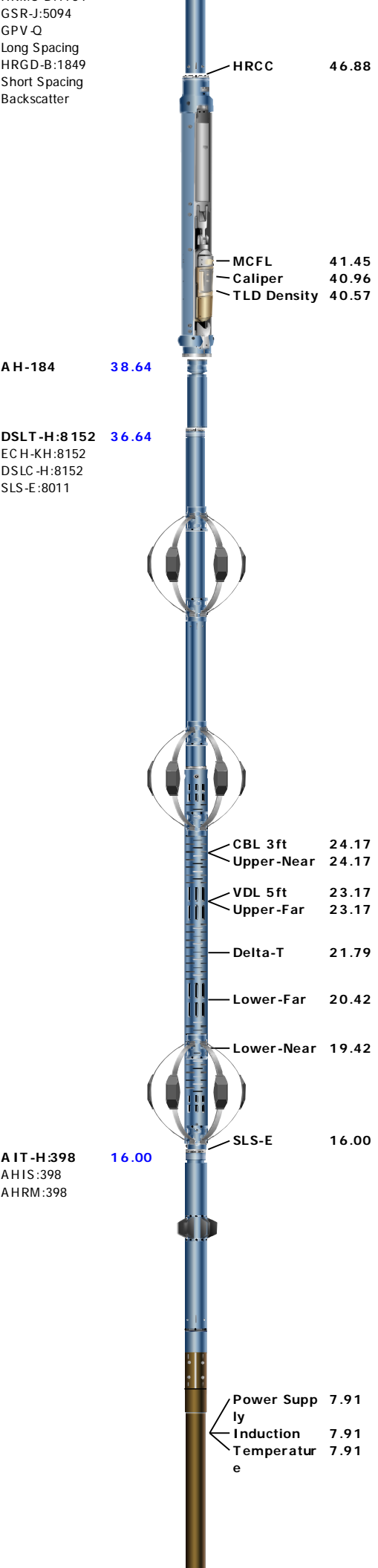
Open Hole 7.875in

Borehole Size/Casing/Tubing Record

Bit						
Bit Size ( in )	7.875					
Top Driller ( ft )	434					
Top Logger ( ft )	434					
Bottom Driller ( ft )	5445					
Bottom Logger ( ft )	5442					
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 )	431					

Remarks and Equipment Summary

Run-1: Toolstring				Run-1: Remarks	
<div><div><div>Equip name</div><div>LEH-QT</div><div>LEH-QT</div></div><div><div>Length</div><div>66.21</div></div><div><div>MP name</div><div></div></div><div><div>Offset</div><div></div></div></div> <div></div>	Toolstring run as per tool sketch.				
	High-res data acquisition from TD-3,900'				
	Matrix was set to Limestone: 2.71 g/cc				
	Crew: Ed Ponce & Matt Rocha				
<div><div><div>DTC-H:9236</div><div>ECH-KC:10316</div><div>DTC-H:9236</div></div><div><div>Length</div><div>63.29</div></div><div><div>MP name</div><div></div></div><div><div>Offset</div><div></div></div></div> <div><div>CTEM</div><div>62.39</div></div> <div><div>HV</div><div>0.00</div></div> <div><div>TelStatus</div><div>60.29</div></div> <div><div>ToolStatus</div><div>60.29</div></div> <div><div>Temperature</div><div>60.26</div></div> <div><div>GR</div><div>59.55</div></div>					
<div><div><div>HGNS-B:1927</div><div>HGNH:3878</div><div>NPV-N</div><div>NSR-F:5069</div><div>HACCZ-B:749</div><div>HMCA-B</div><div>HGNS-B:1927</div></div><div><div>Length</div><div>60.29</div></div><div><div>MP name</div><div></div></div><div><div>Offset</div><div></div></div></div> <div><div>CNL Porosity</div><div>53.21</div></div> <div><div>HMCA</div><div>50.88</div></div> <div><div>HGNS</div><div>50.88</div></div> <div><div>Accelerometer</div><div>0.00</div></div>					
<div><div><div>HDRS-B:1754</div><div>ECH-MEB:1922</div><div>HRCC-B:791</div><div>HRMS-B:1754</div></div><div><div>Length</div><div>50.88</div></div><div><div>MP name</div><div></div></div><div><div>Offset</div><div></div></div></div> <td colspan="3"></td> <td colspan="2"></td>					





SP 0.08  
Mud Resistivity 0.00  
Head Tension  
TOOL\_ZERO

Lengths are in ft

Maximum Outer Diameter = 5.000 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	1		
Depth Remark Parameters	Run-1		
Depth Remark 1	All Schlumberger depth procedures followed.		
Depth Remark 2	IDW used as primary depth device, Z-chart used as secondary depth reference.		
Depth Measuring Device	Run-1		
Type	IDW-JA		
Serial Number	6515A		
Calibration Date	23-Oct-2012		
Calibrator Serial Number	1324		
Calibration Cable Type	7-46P LXS		
Wheel Correction 1	-7		
Wheel Correction 2	-5		
Tension Device	Run-1		
Type	CMTD-B/A		
Serial Number	1919		
Calibration Date	10-Nov-2012		
Calibrator Serial Number	78135		
Calibration Points	10		
Calibration RMS	6		
Calibration Peak Error	11		
Logging Cable	Run-1		
Type	7-46P-XS		
Serial Number	U7110		
Logging Cable Length ( ft )	23450.00		

## Composite 1

## Cement Volume Caliper Log

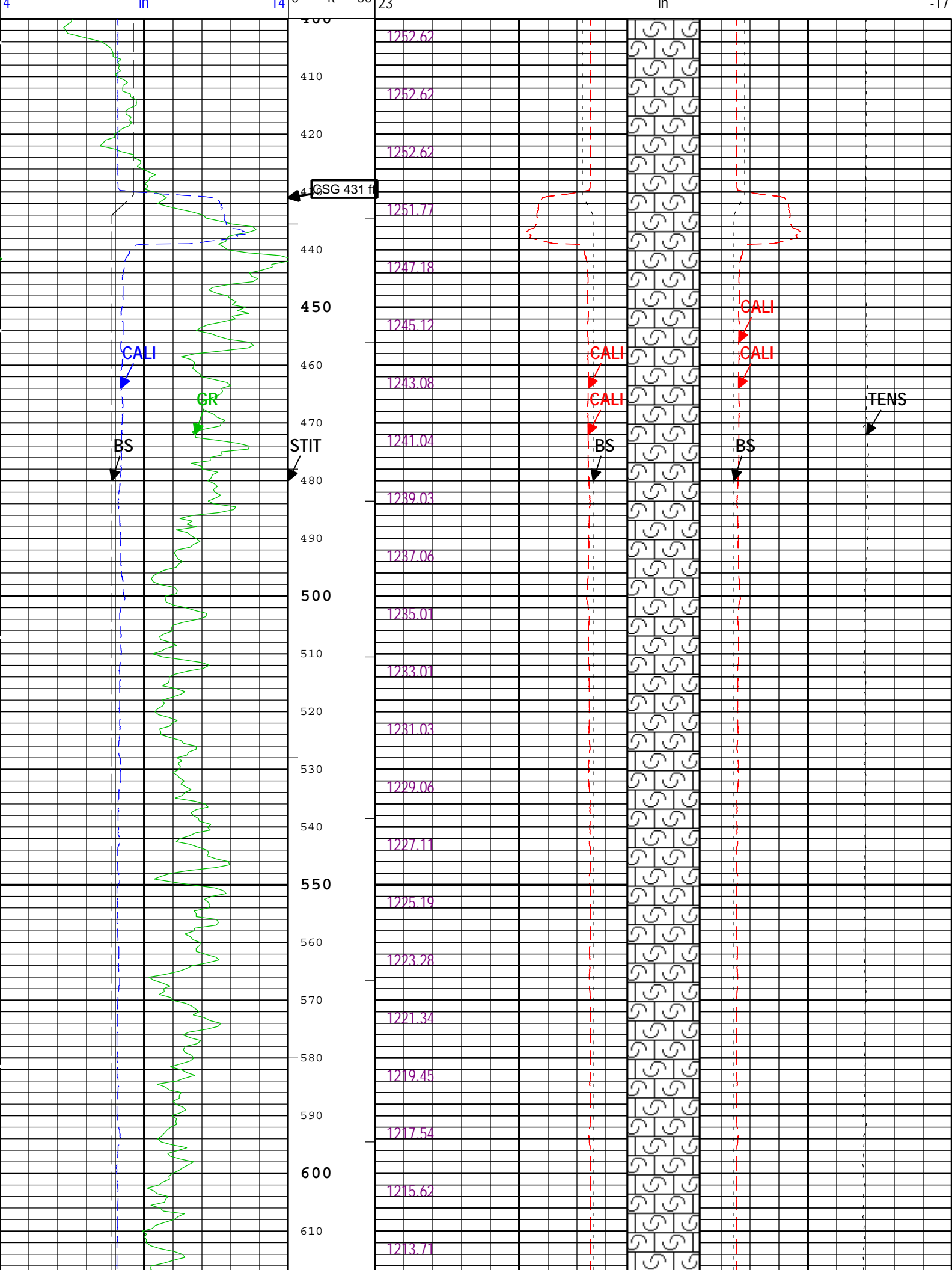
## Integration Summary

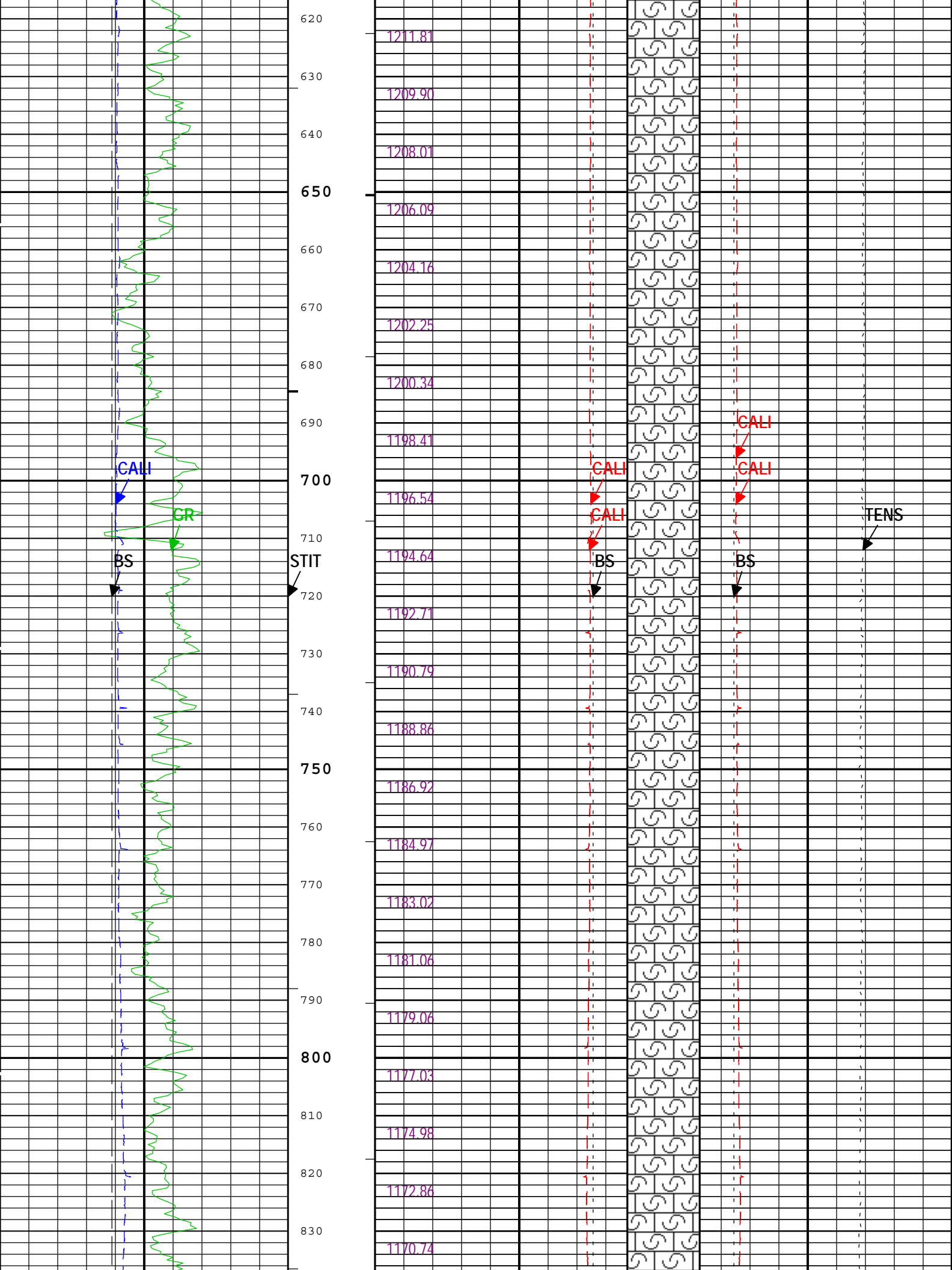
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, GCSE_DOWN_PASS:Run-1, FCD	1252.54	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS, GCSE_DOWN_PASS:Run-1	2082.15	ft3

## Software Version

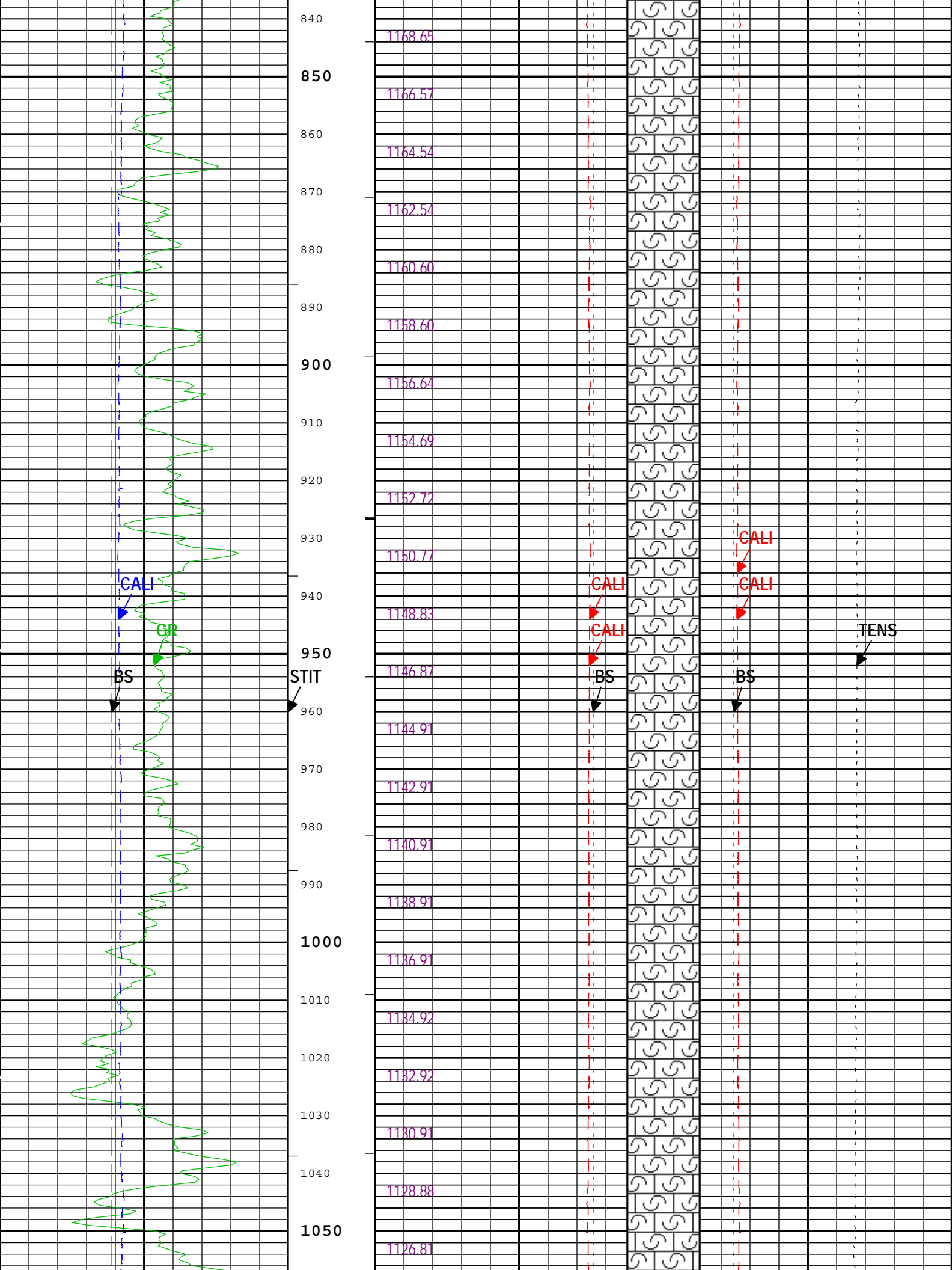
Acquisition System	Version
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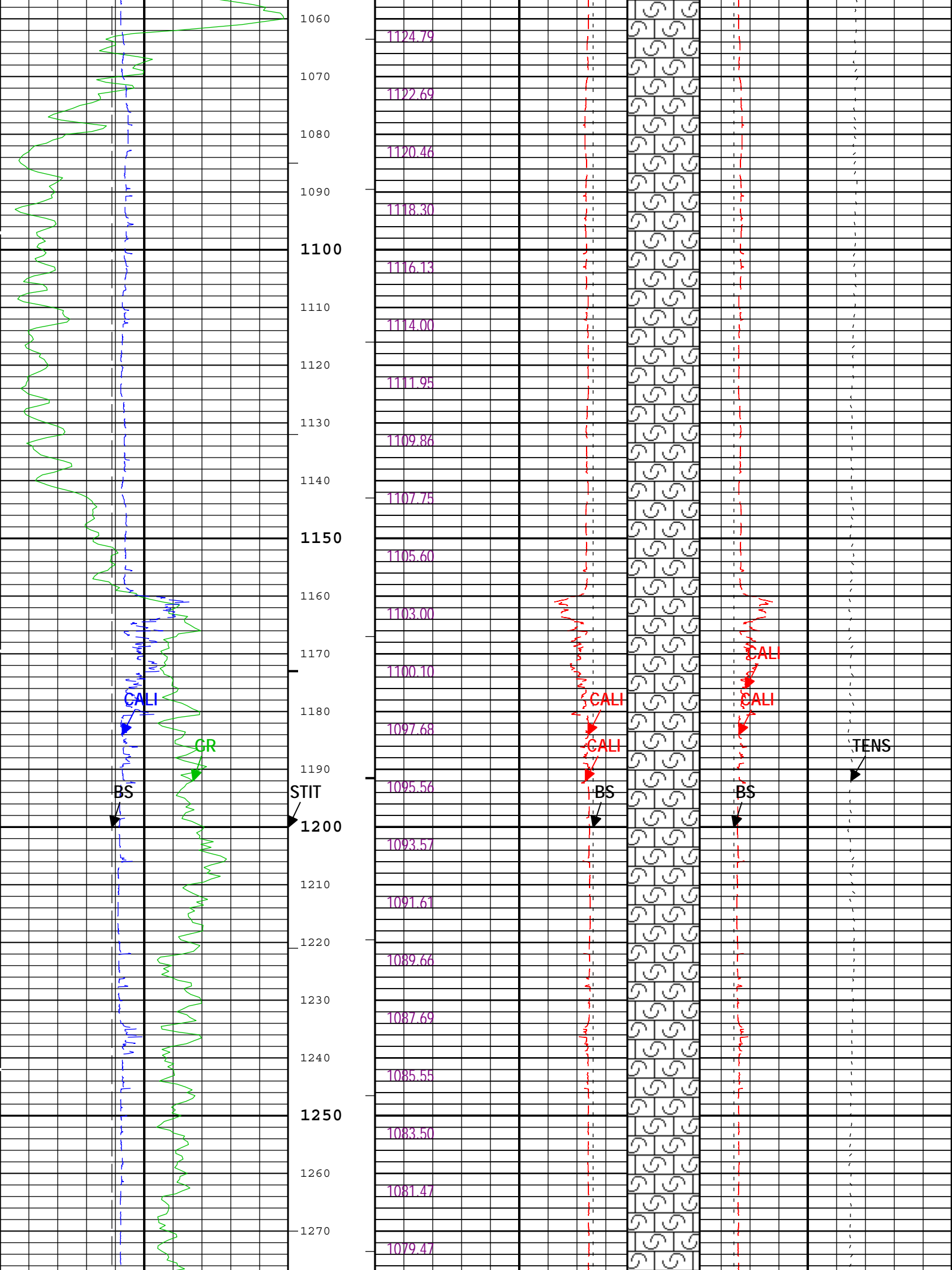
MaxWell					3.1.9755.0			
Application Patch					SP-20120723-3.1.9755.1112			
					EXP_APL-MASTAXIS-3.1.9755.1221			
Computation		Description					Version	
Borehole		Borehole Ensemble provides common Borehole Parameters and Channels					3.1.9755.0	
DepthCorrection		DepthCorrection					3.1.9755.0	
Tool Elements		Description			Software Version		Firmware Version	
HGNS-B		HILT Gamma-Ray and Neutron Sonde, 125 degC			3.1.9755.0		2.0	
HRCC-B		HILT High-Resolution Control Cartridge, 125 degC			3.1.9755.0		2.0	
Composite Summary								
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run-1	Log[3]:Up	Up	2330.23 ft	5462.23 ft	19-Nov-2012 9:11:52 PM	19-Nov-2012 10:30:49 PM	0.00 ft	
Run-1	Log[4]:Up	Up	323.00 ft	2404.61 ft	19-Nov-2012 11:00:30 PM	19-Nov-2012 11:31:37 PM	0.00 ft	
All depths are referenced to toolstring zero								
Log		Composite 1						
Description:    Format: Log ( Noble East Caliper )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 19-Nov-2012 23:39:40								
Channel	Source		Sampling					
ICV	Borehole		6in					
BS	Borehole		6in					
CALI	HDRS[1]:HRCC-B[1]:HRCC-B[1]		1in					
GR	HGNS[1]:HGNS-B[1]:HGNS-B[1]		6in					
ICV	Borehole		6in					
IHV	Borehole		6in					
TENS	WLWorkflow		6in					
STIT	DepthCorrection		6in					
TIME_1900	WLWorkflow		0.1in					
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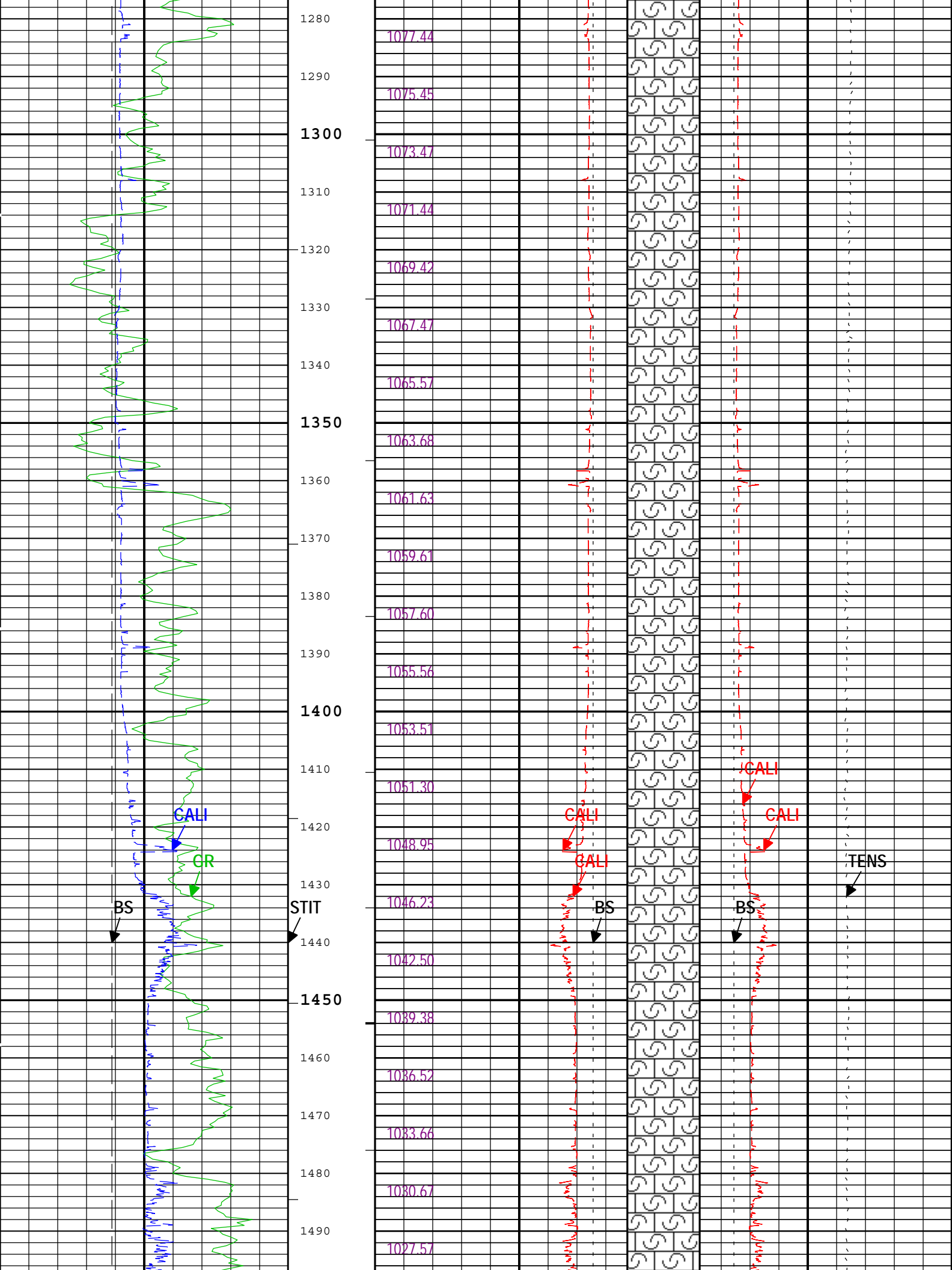


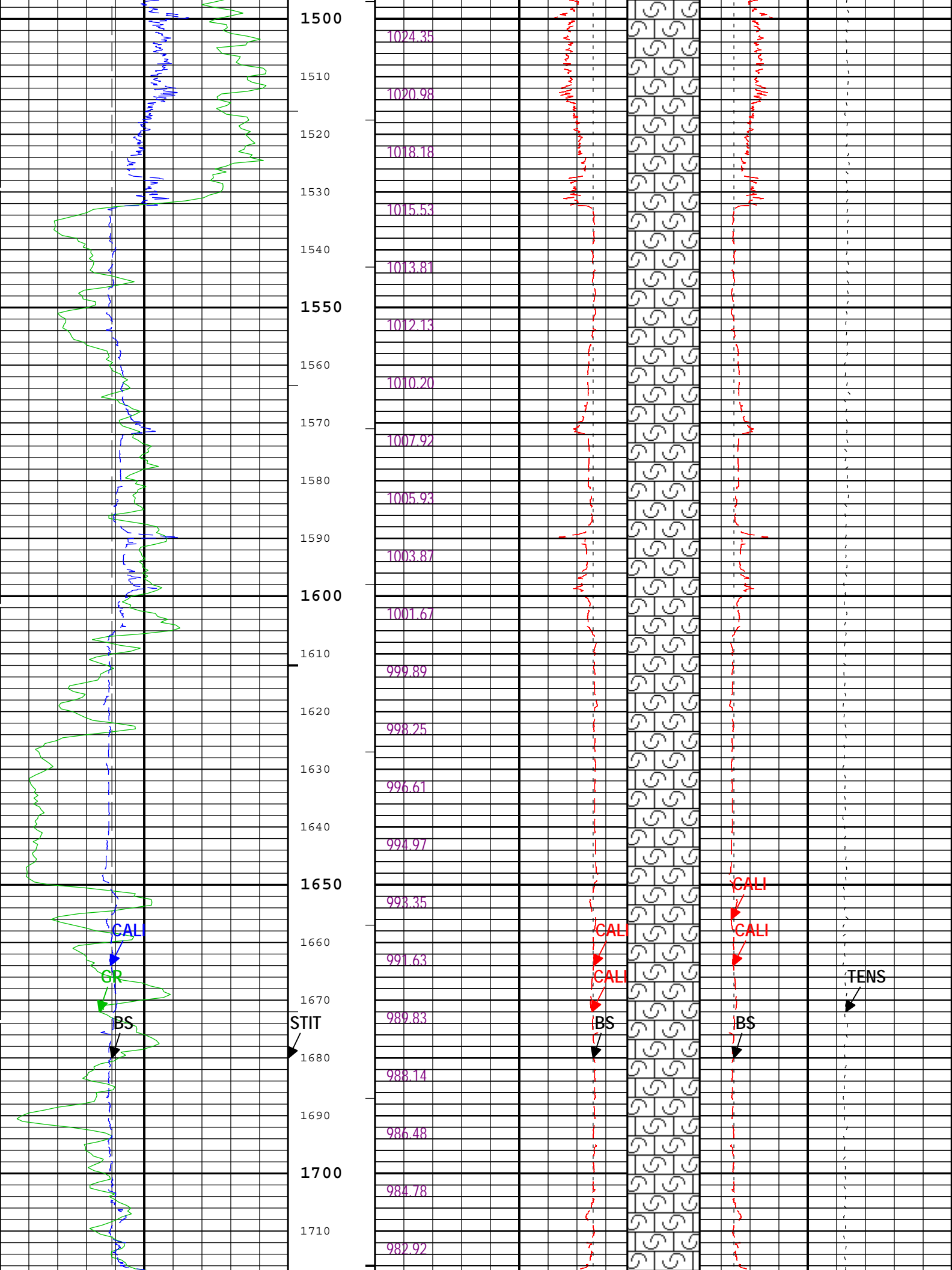


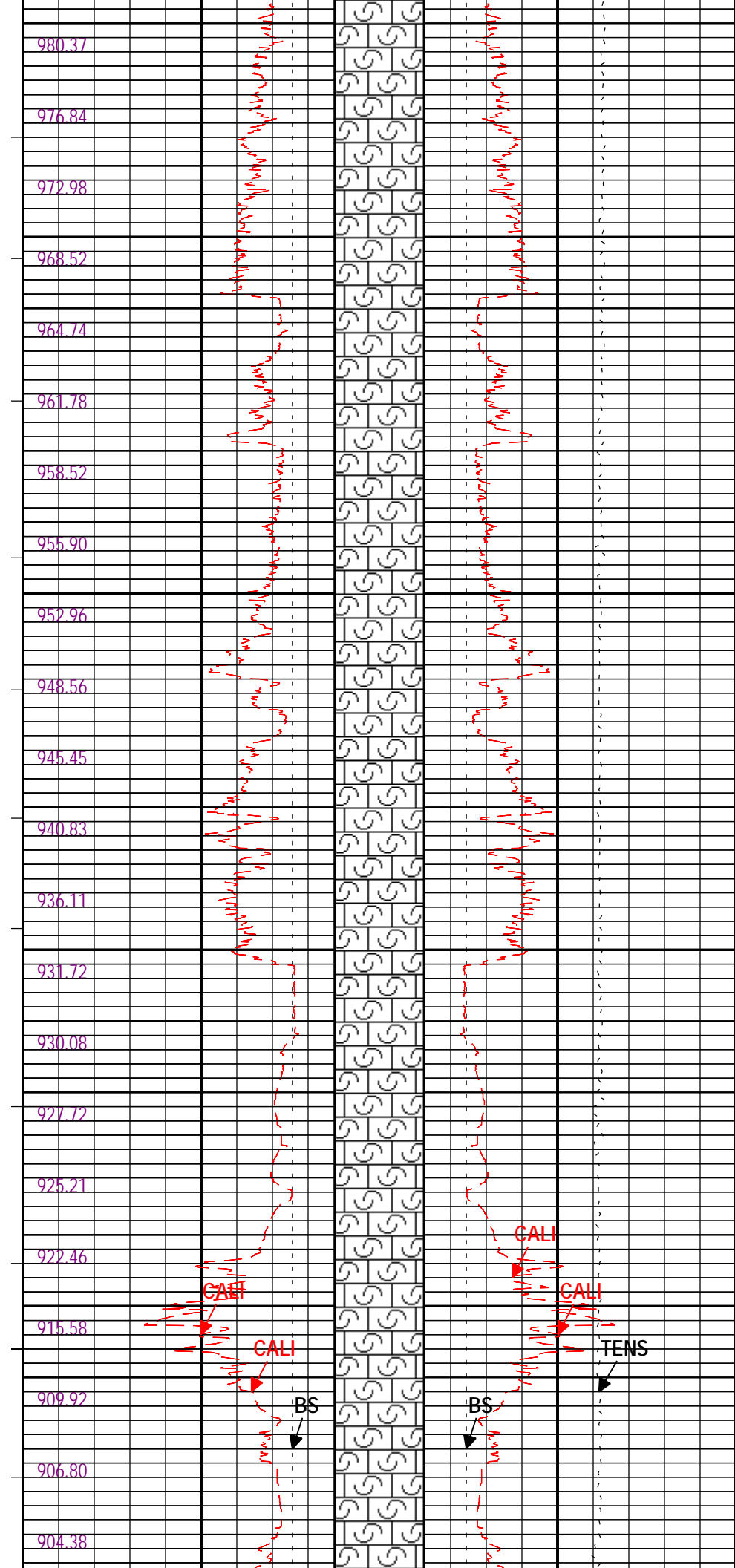
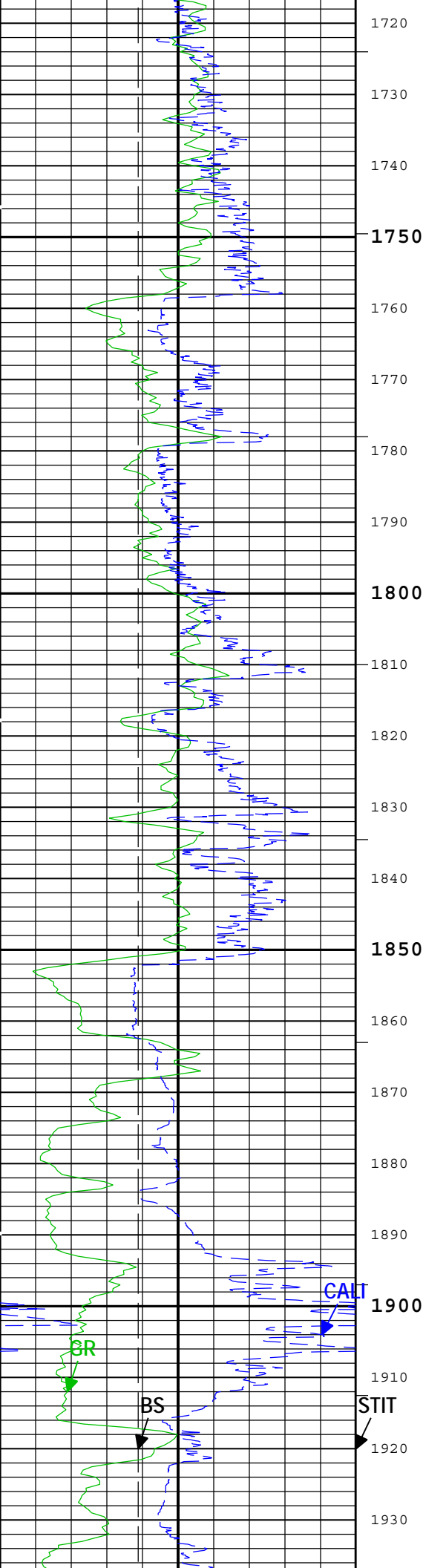


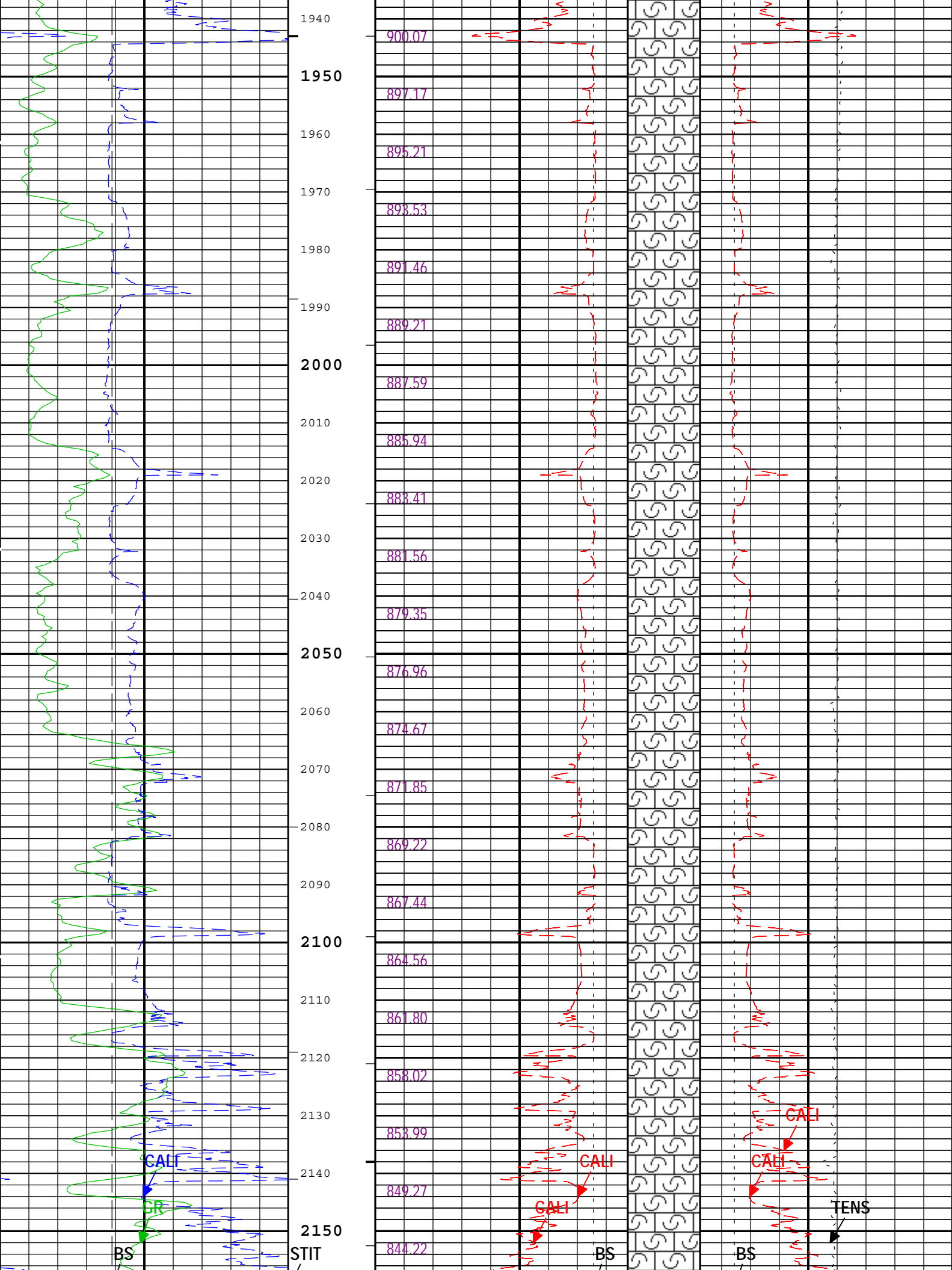


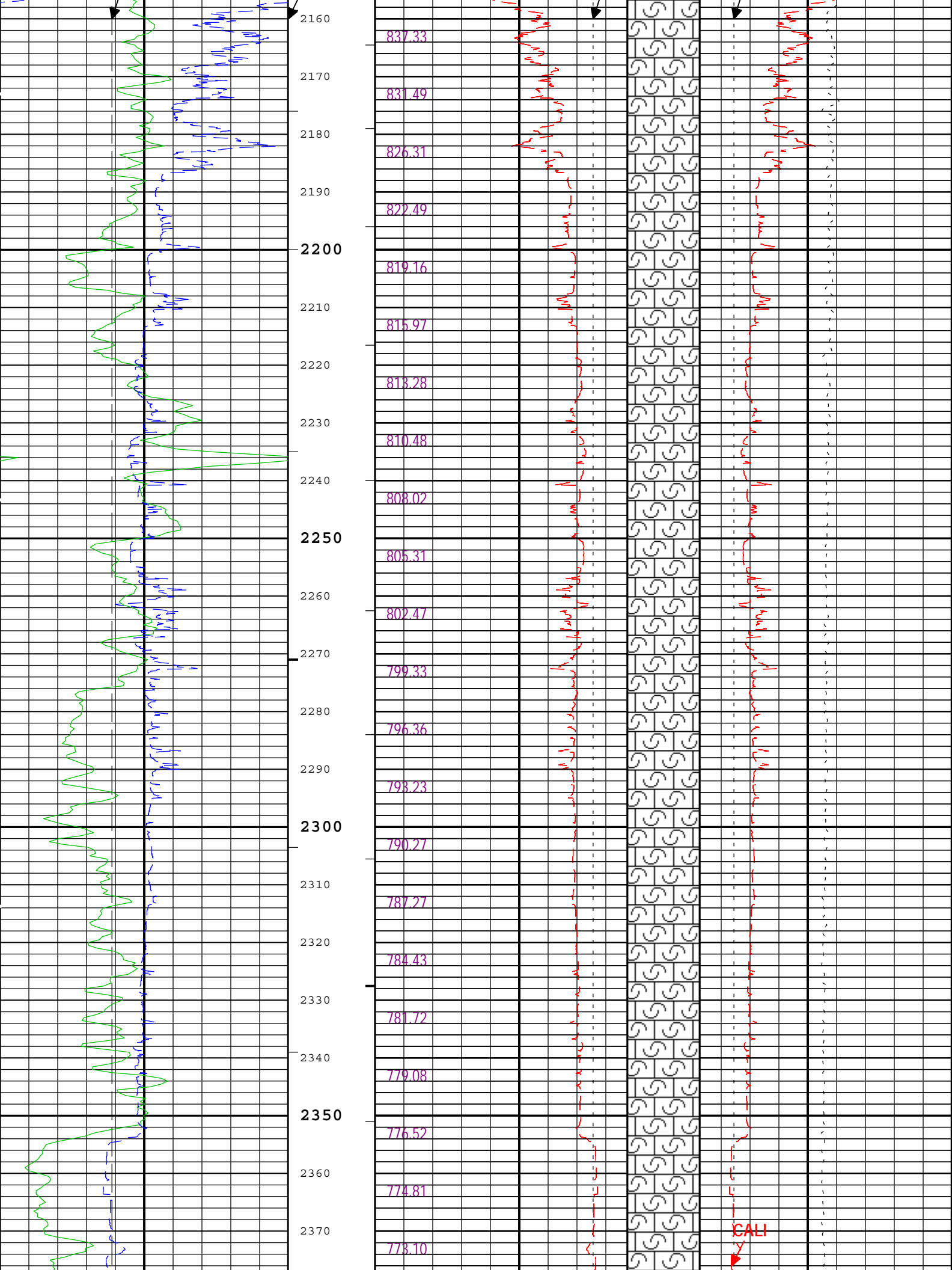


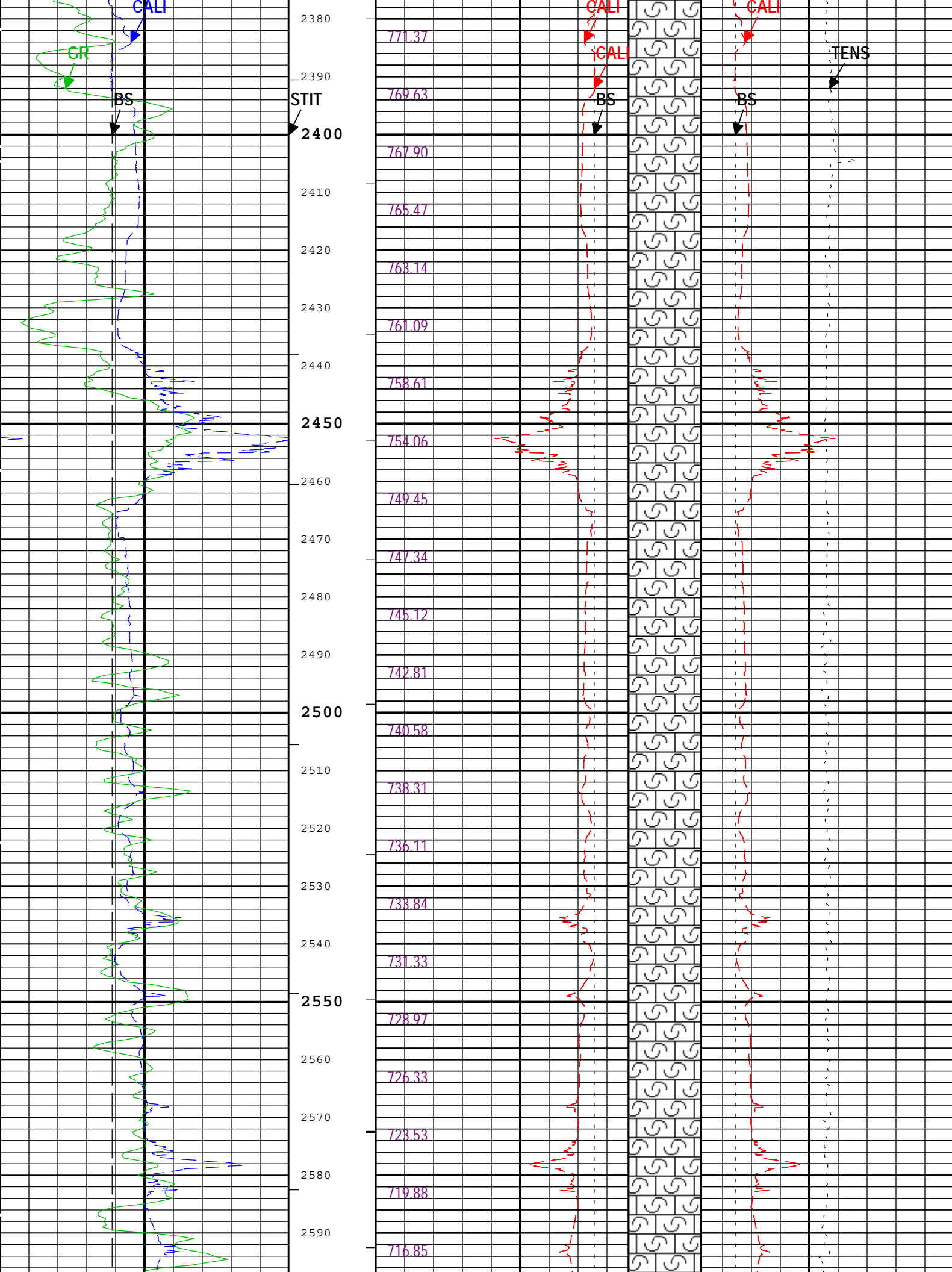




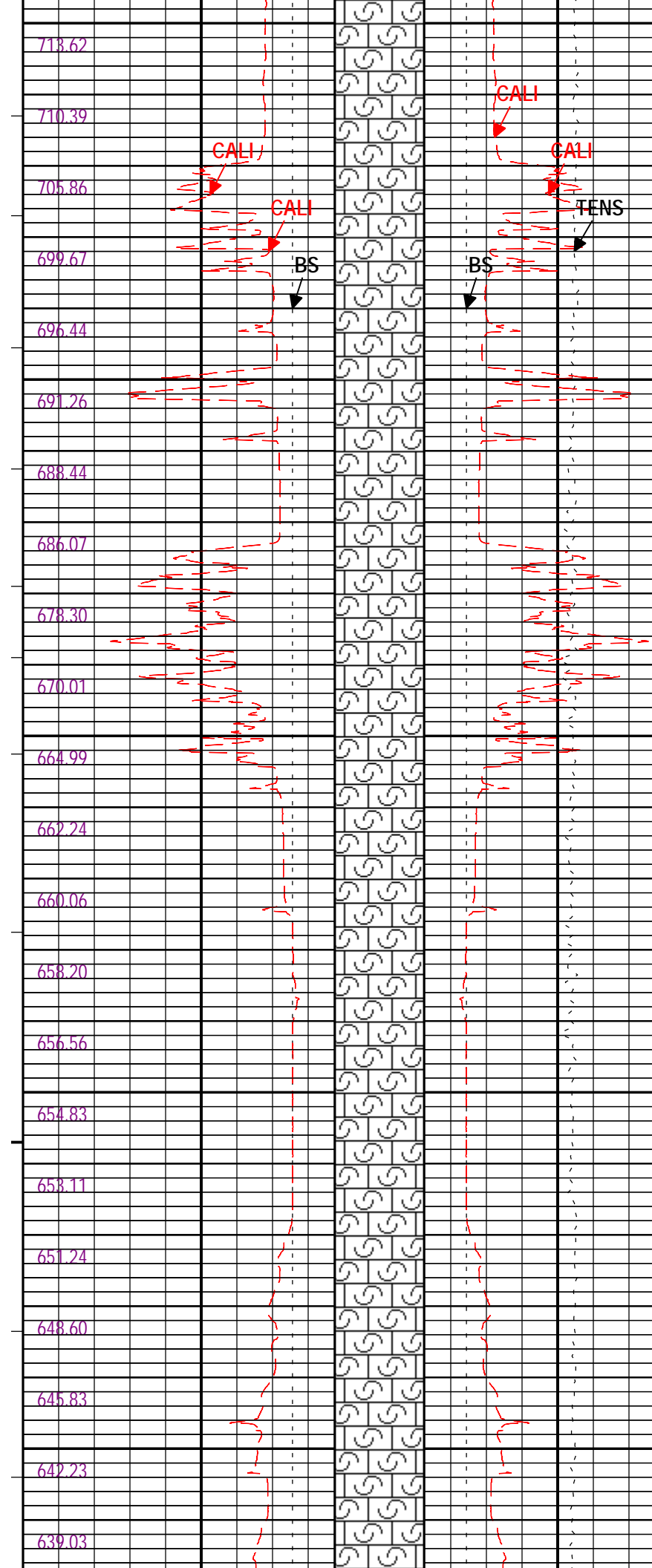
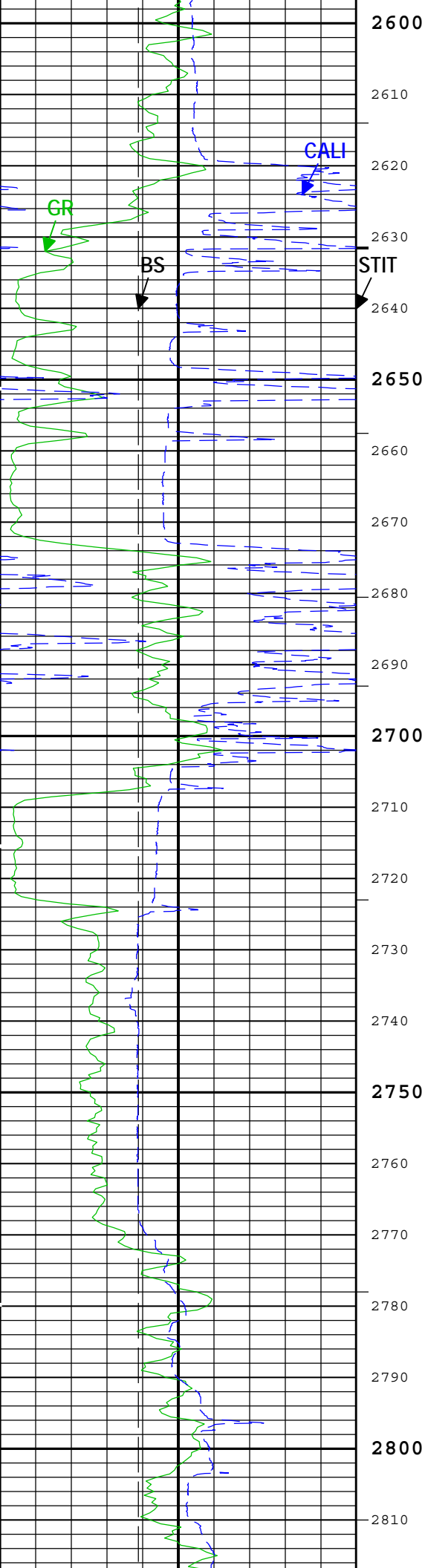


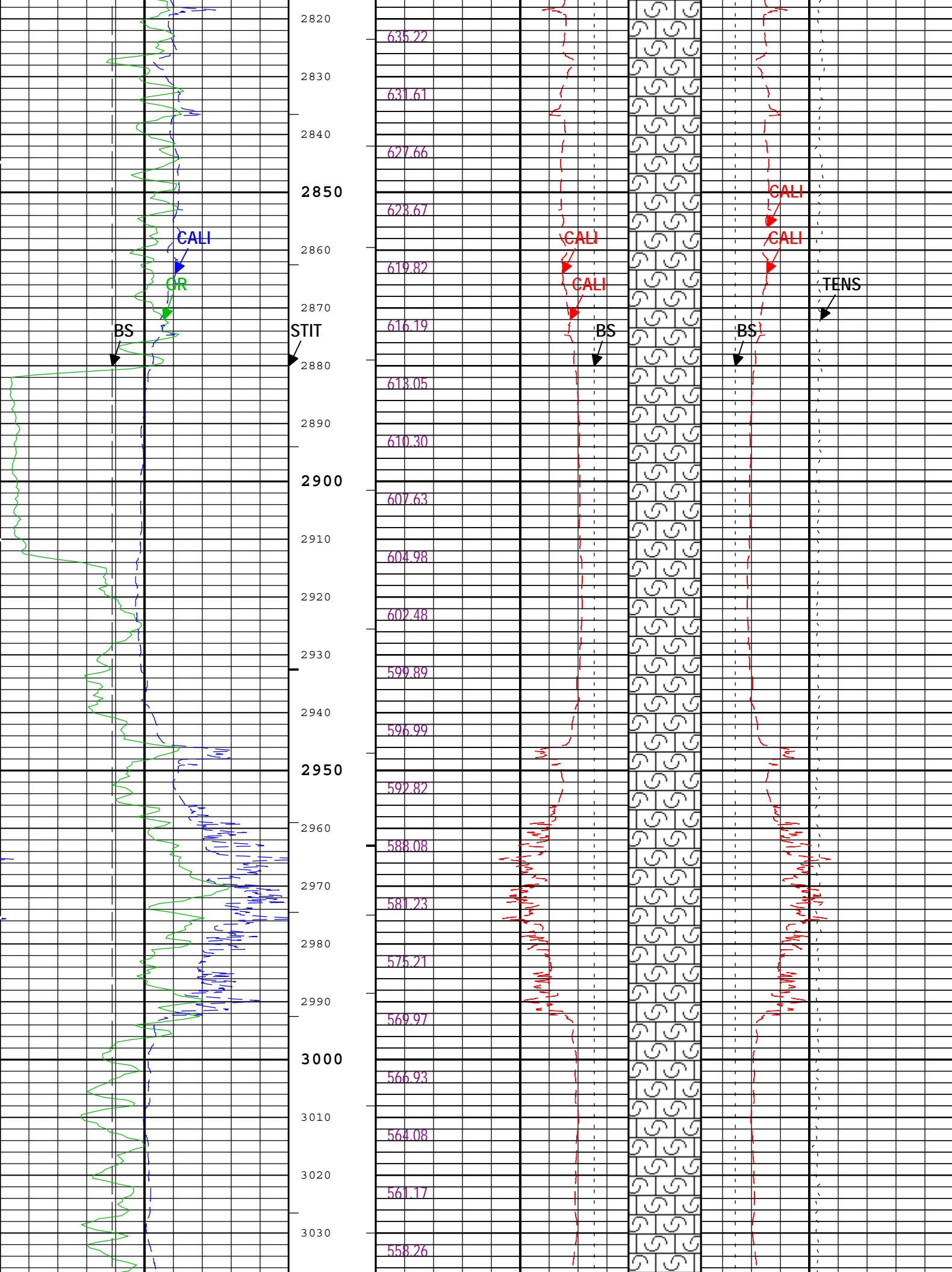


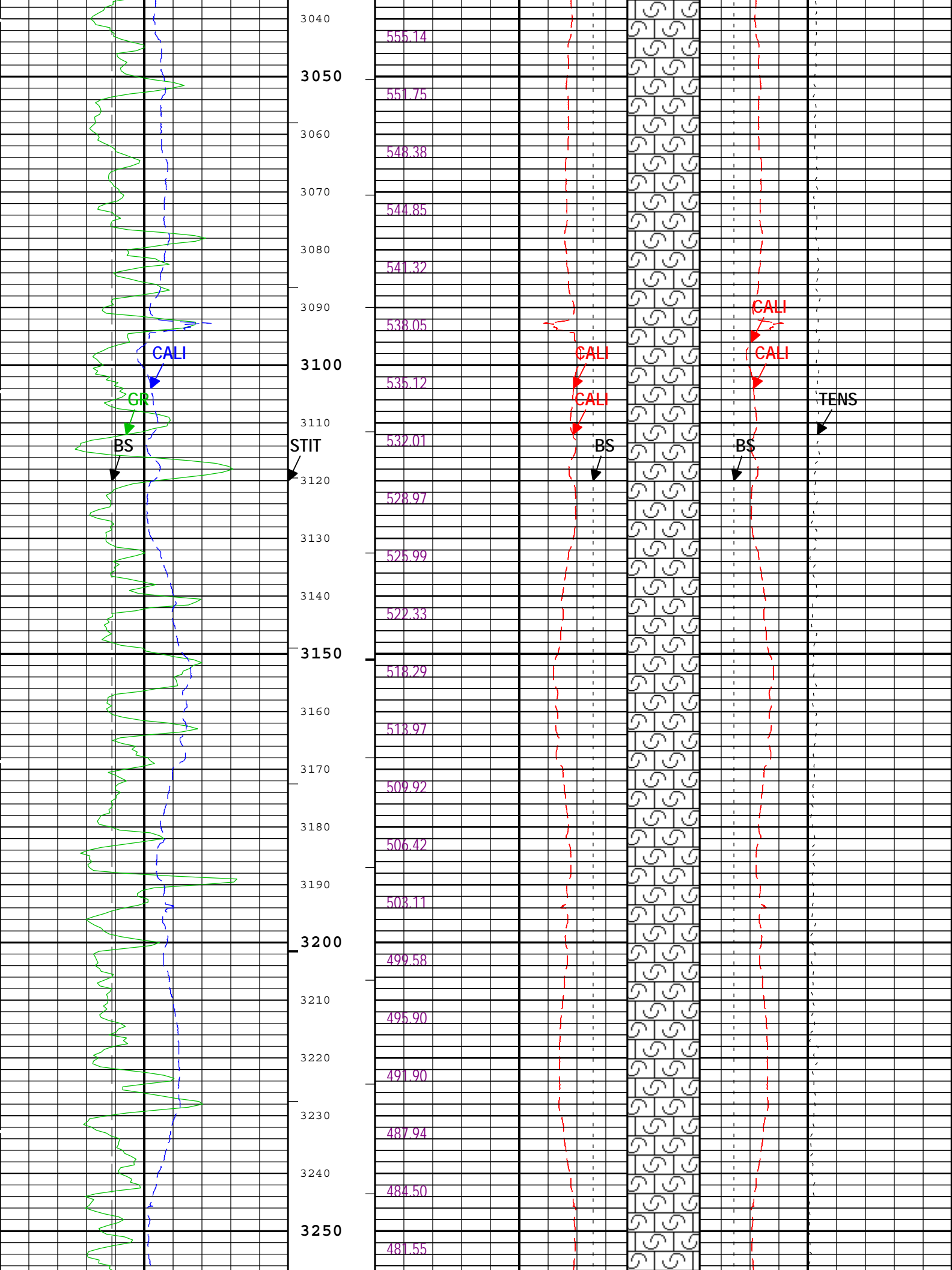


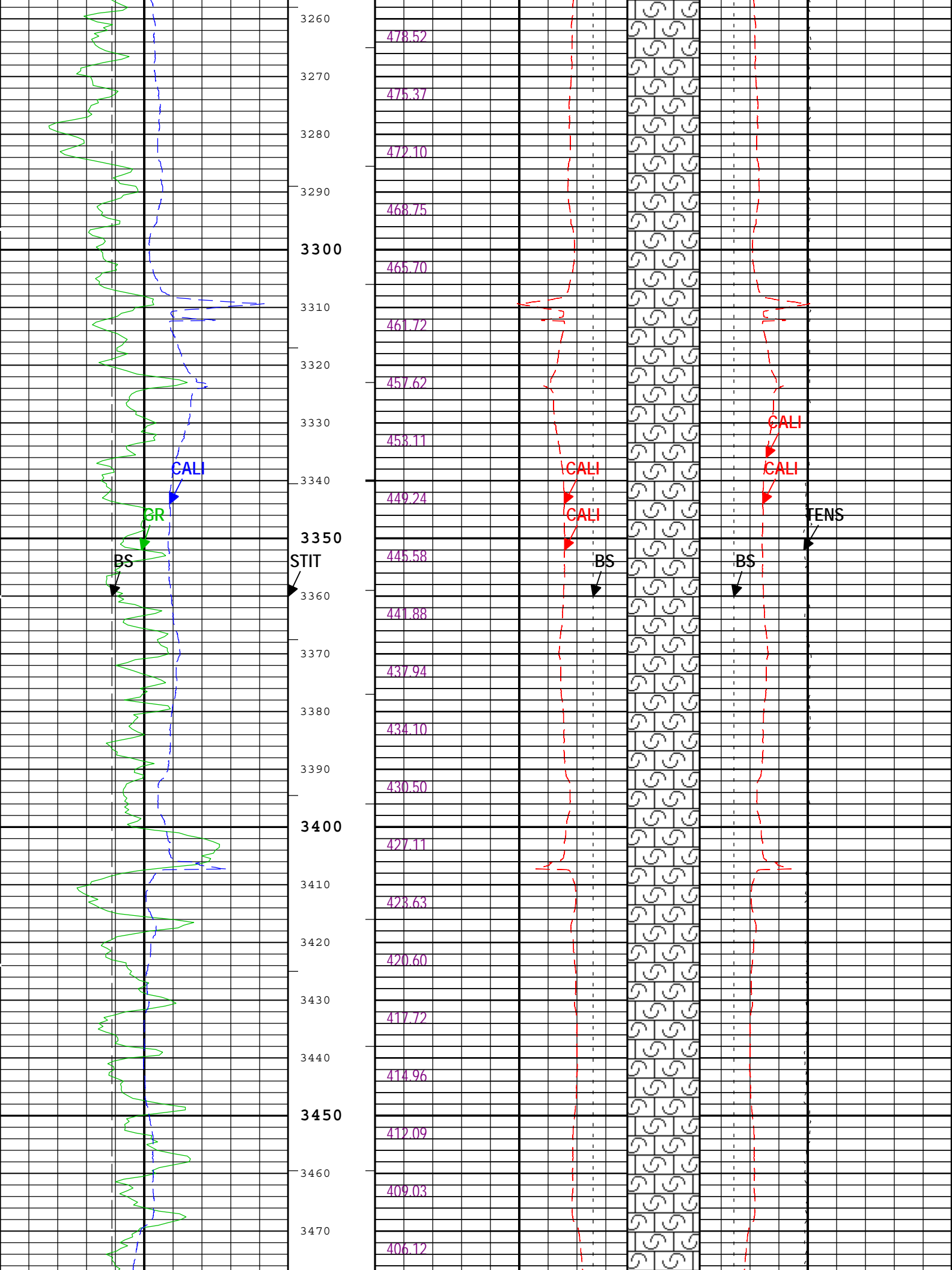


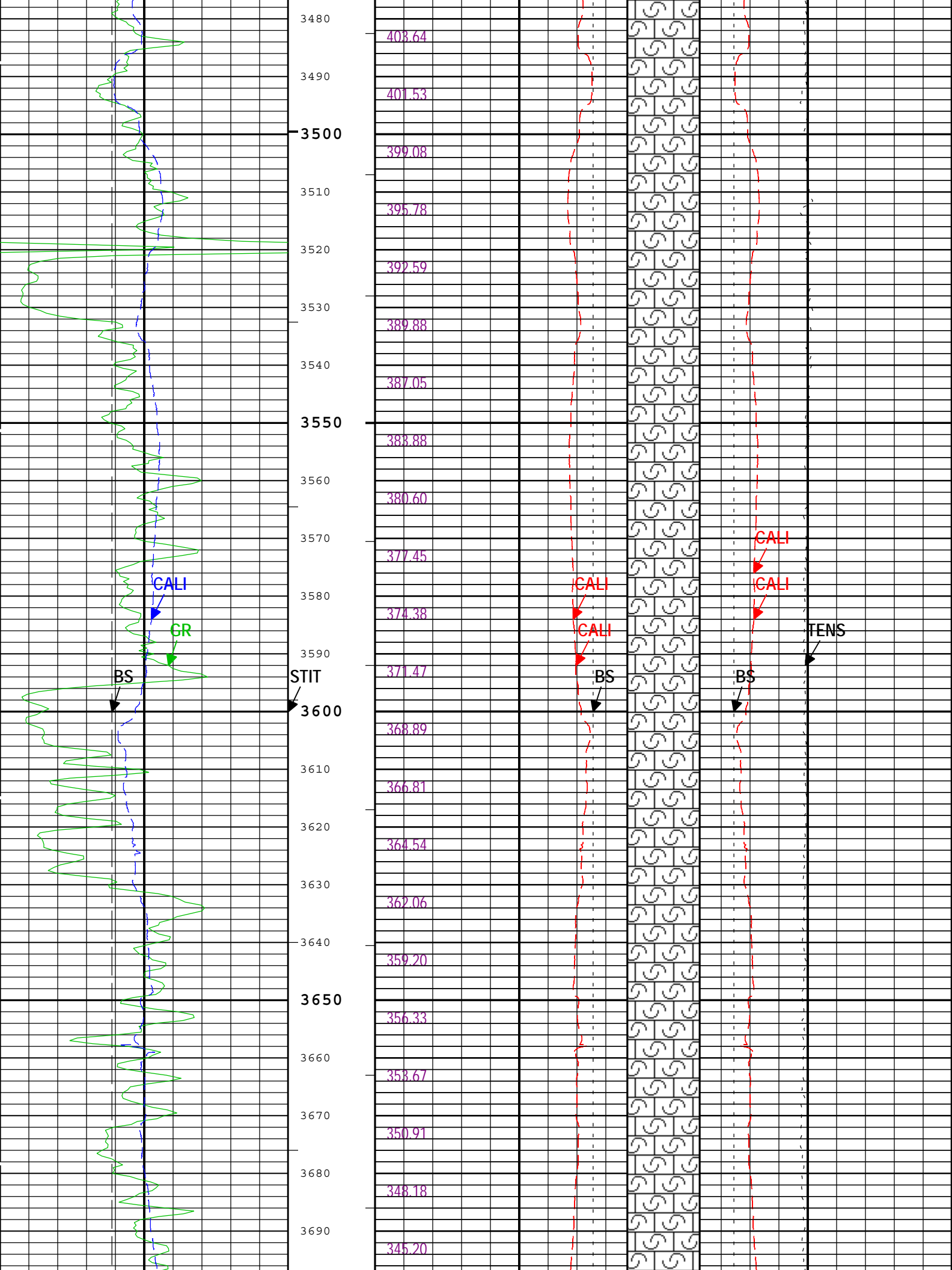


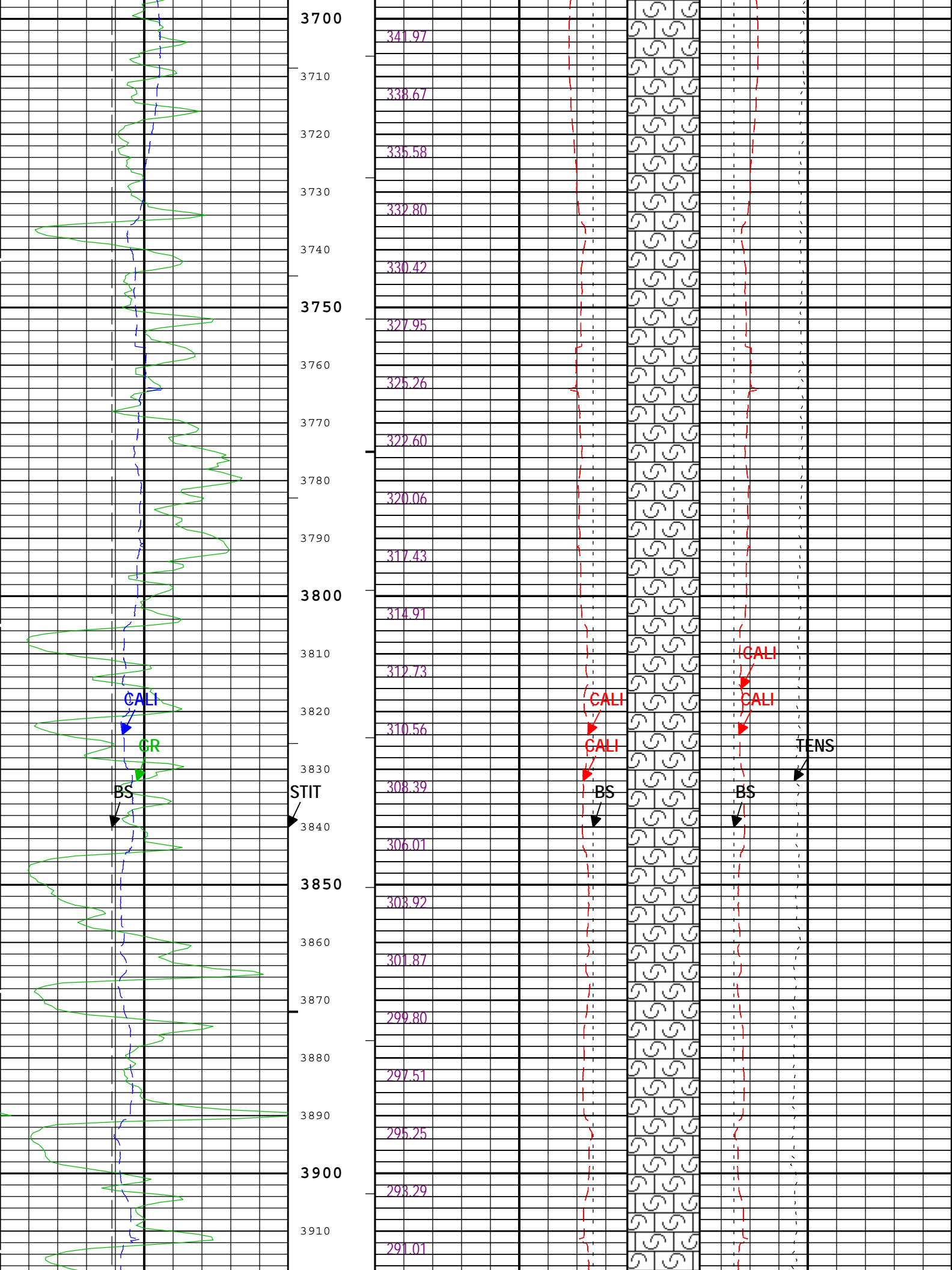


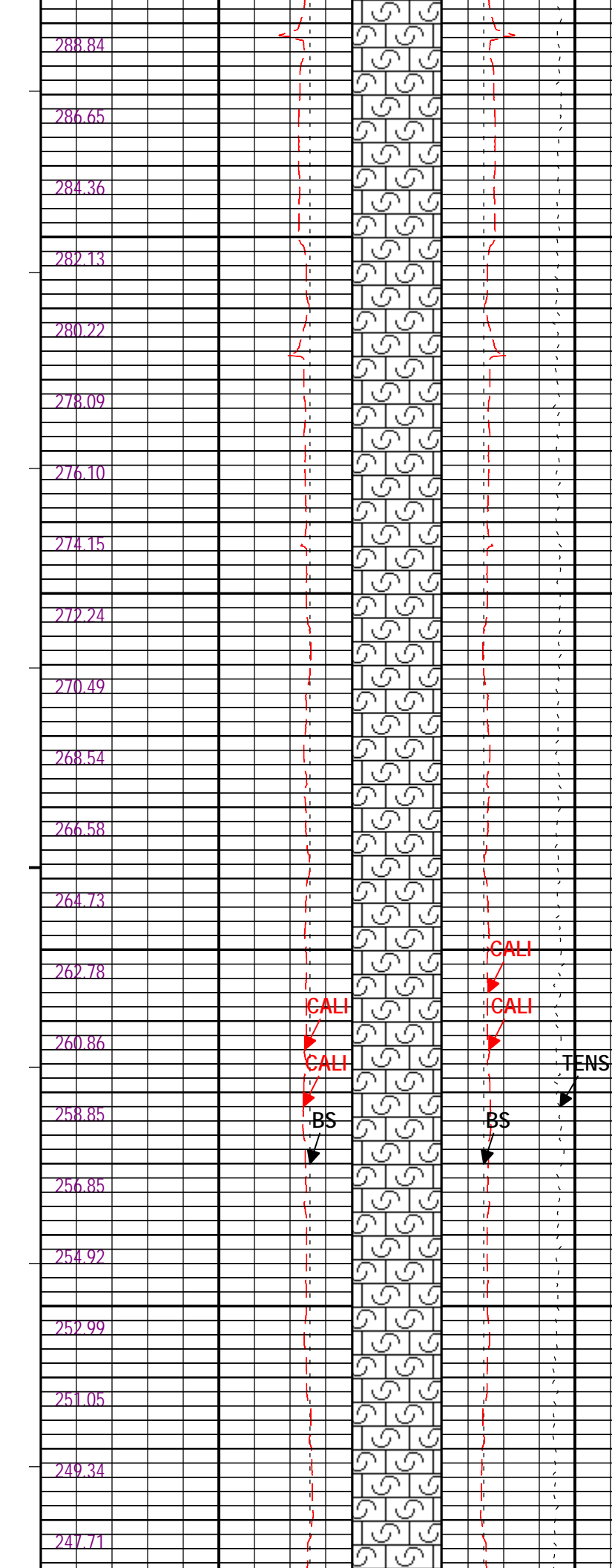
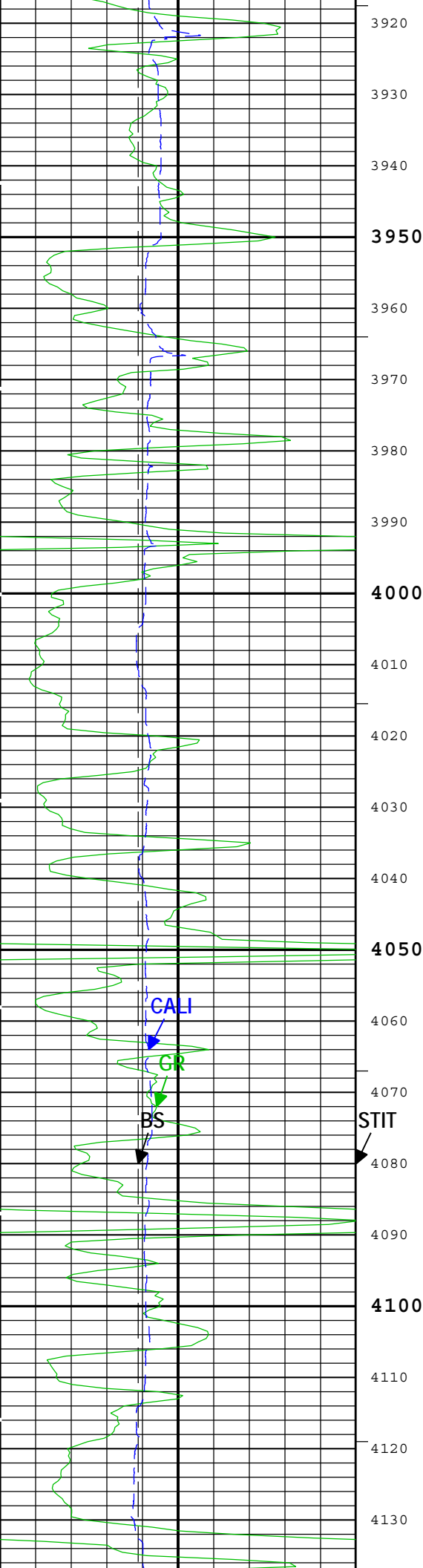


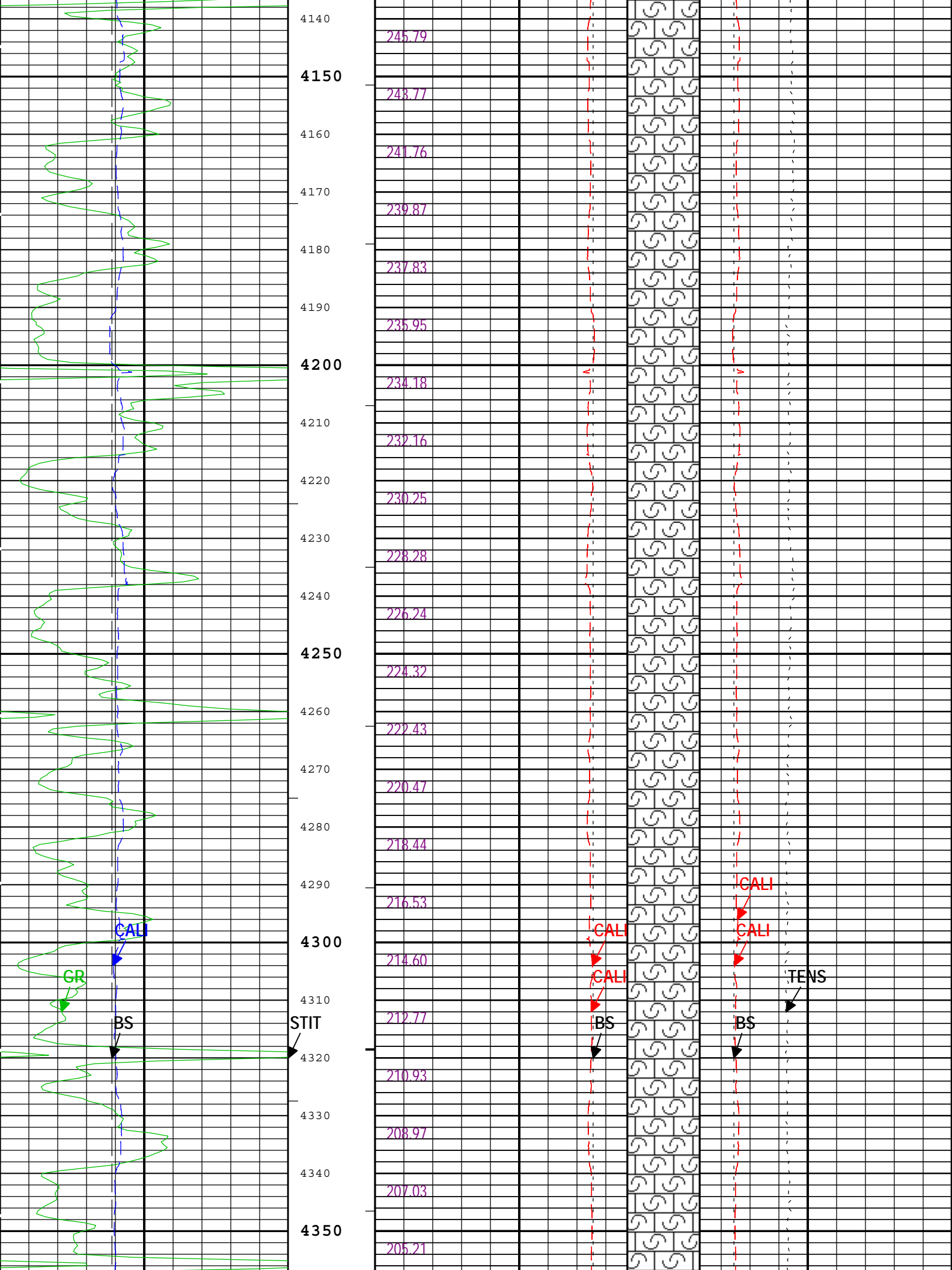




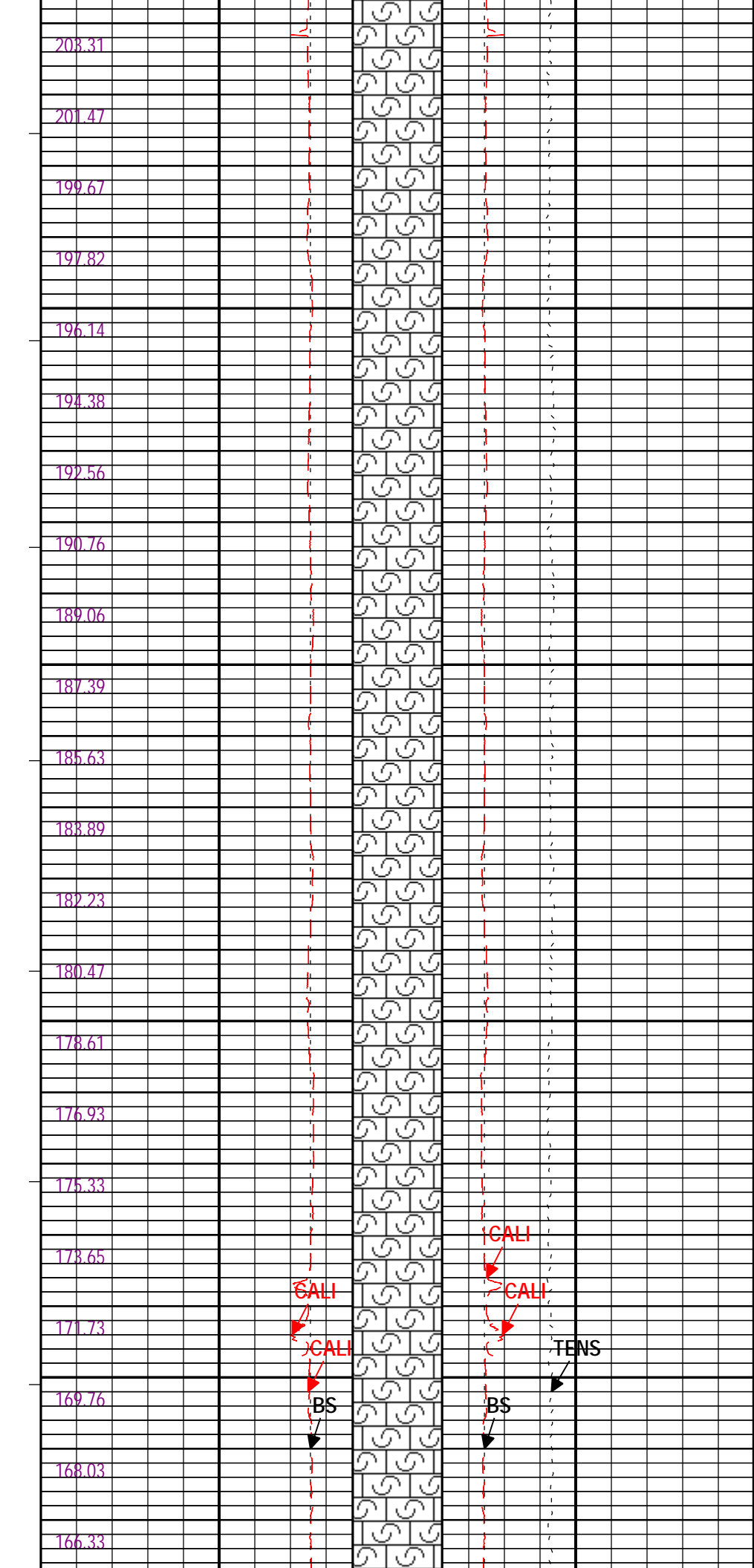
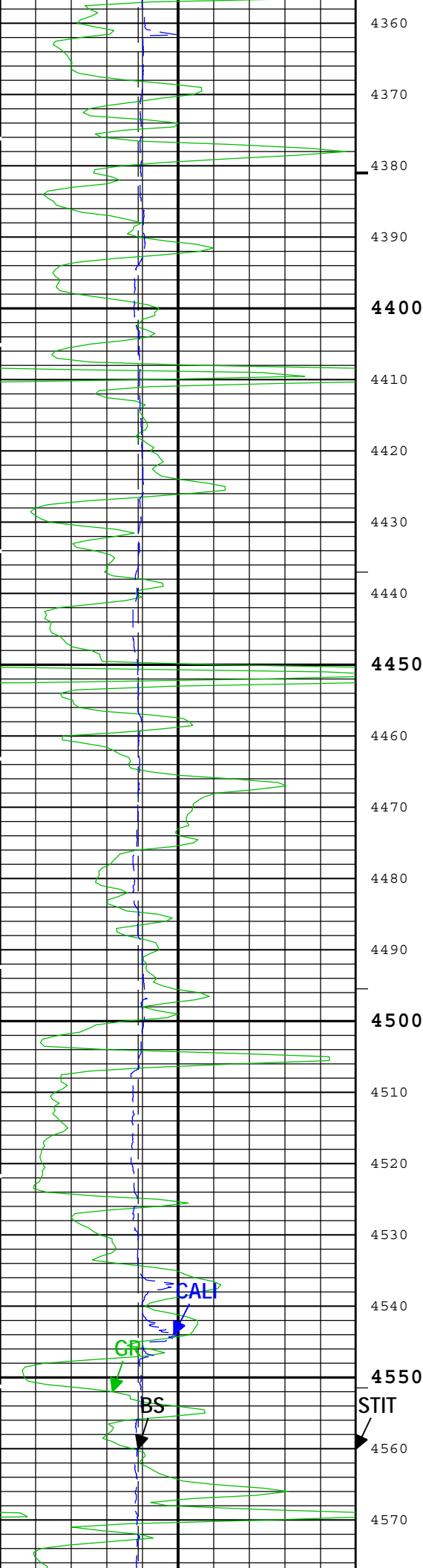


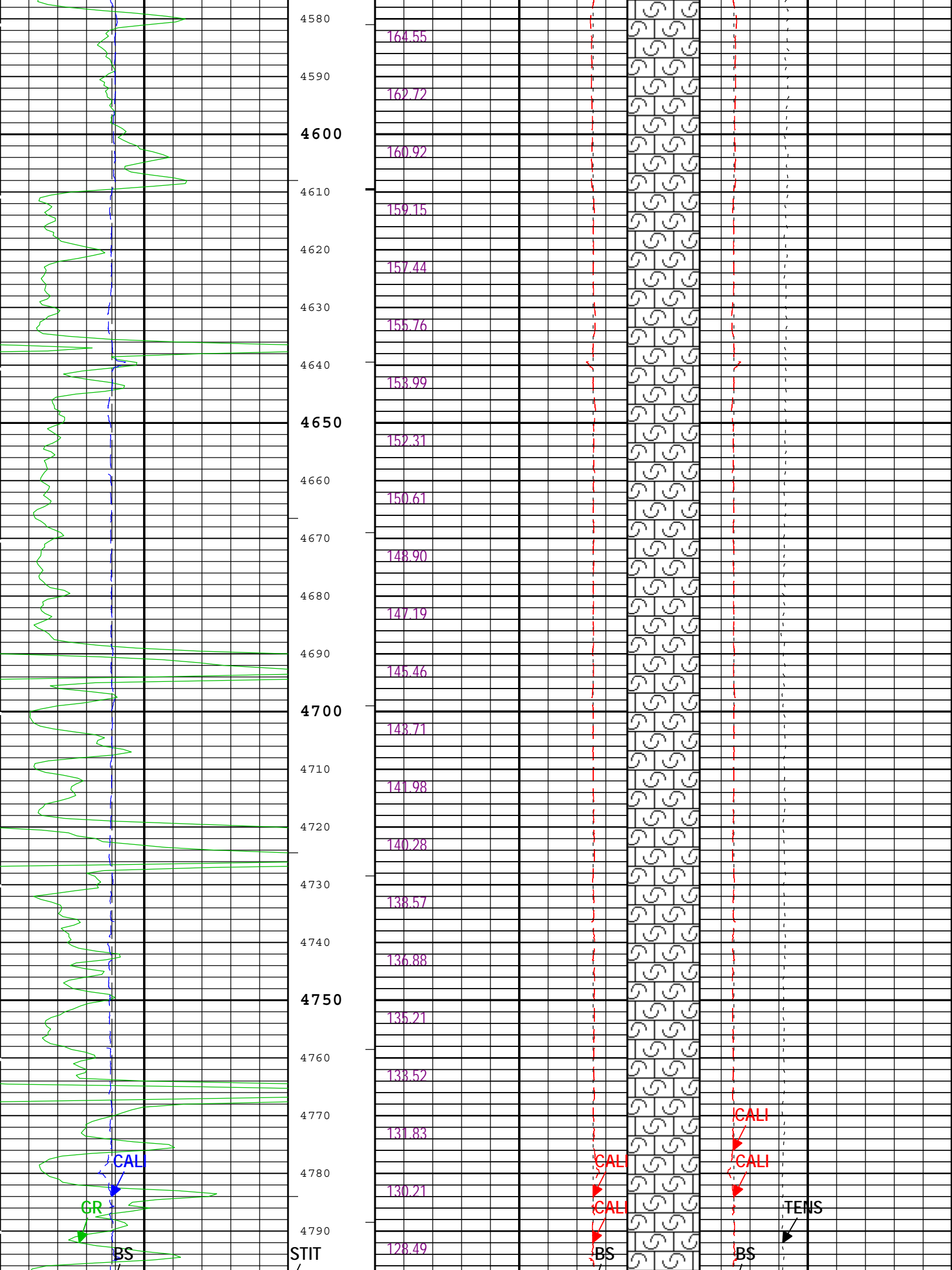


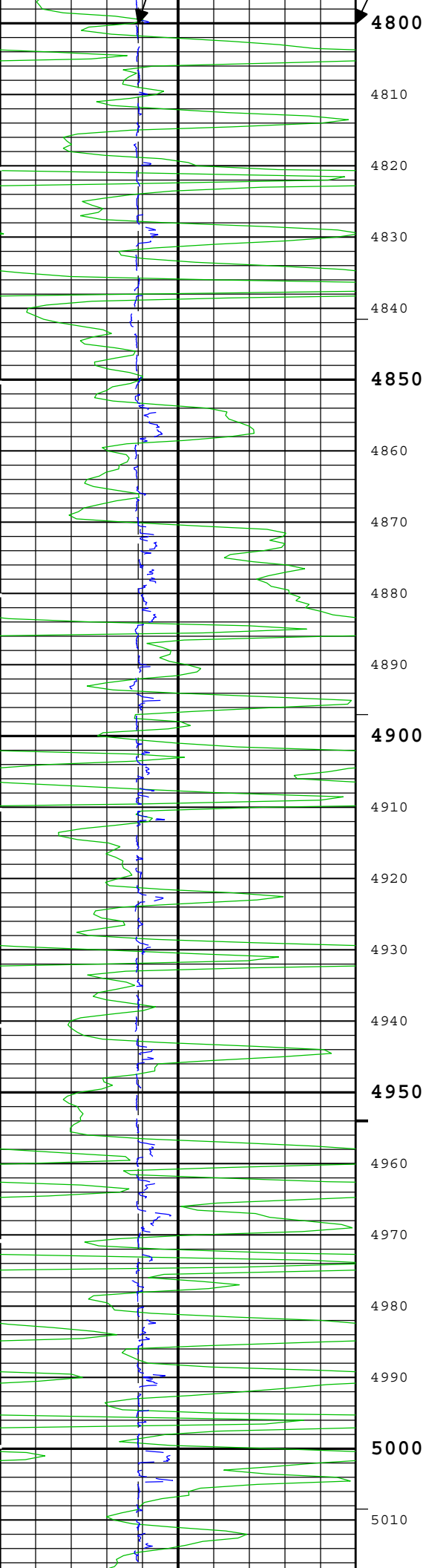












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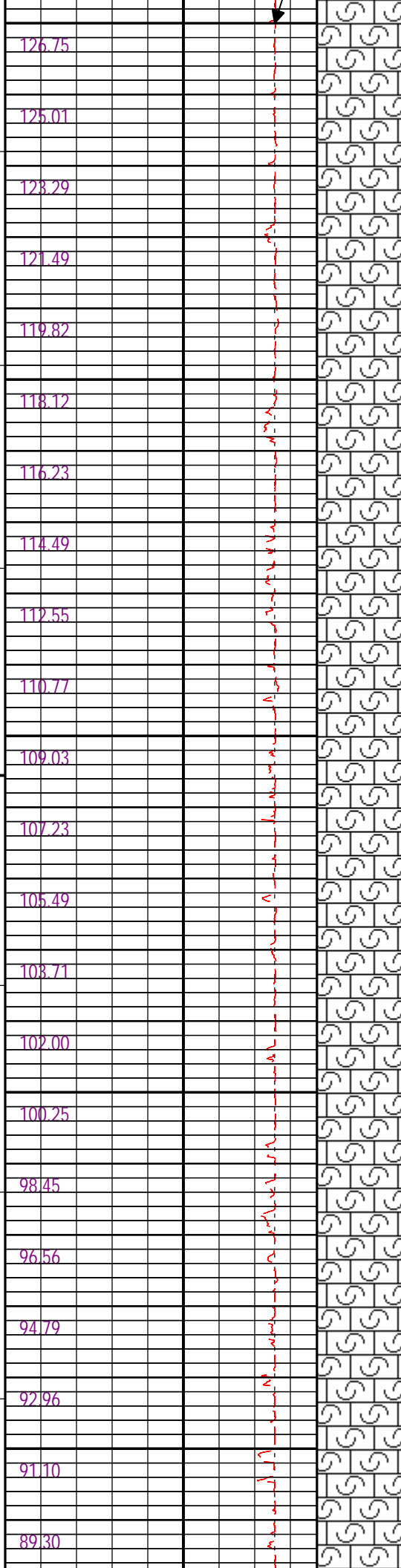
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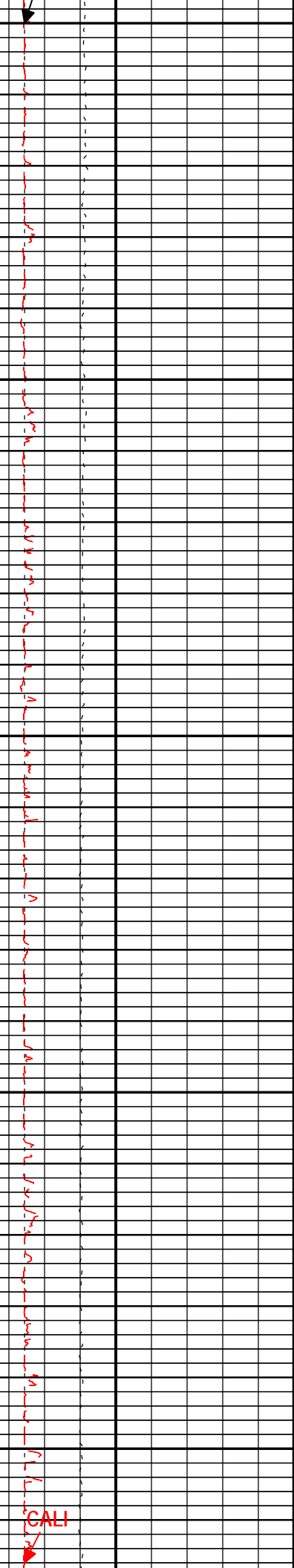
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102.00

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114.49

112.55

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107.23

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119.82

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110.77

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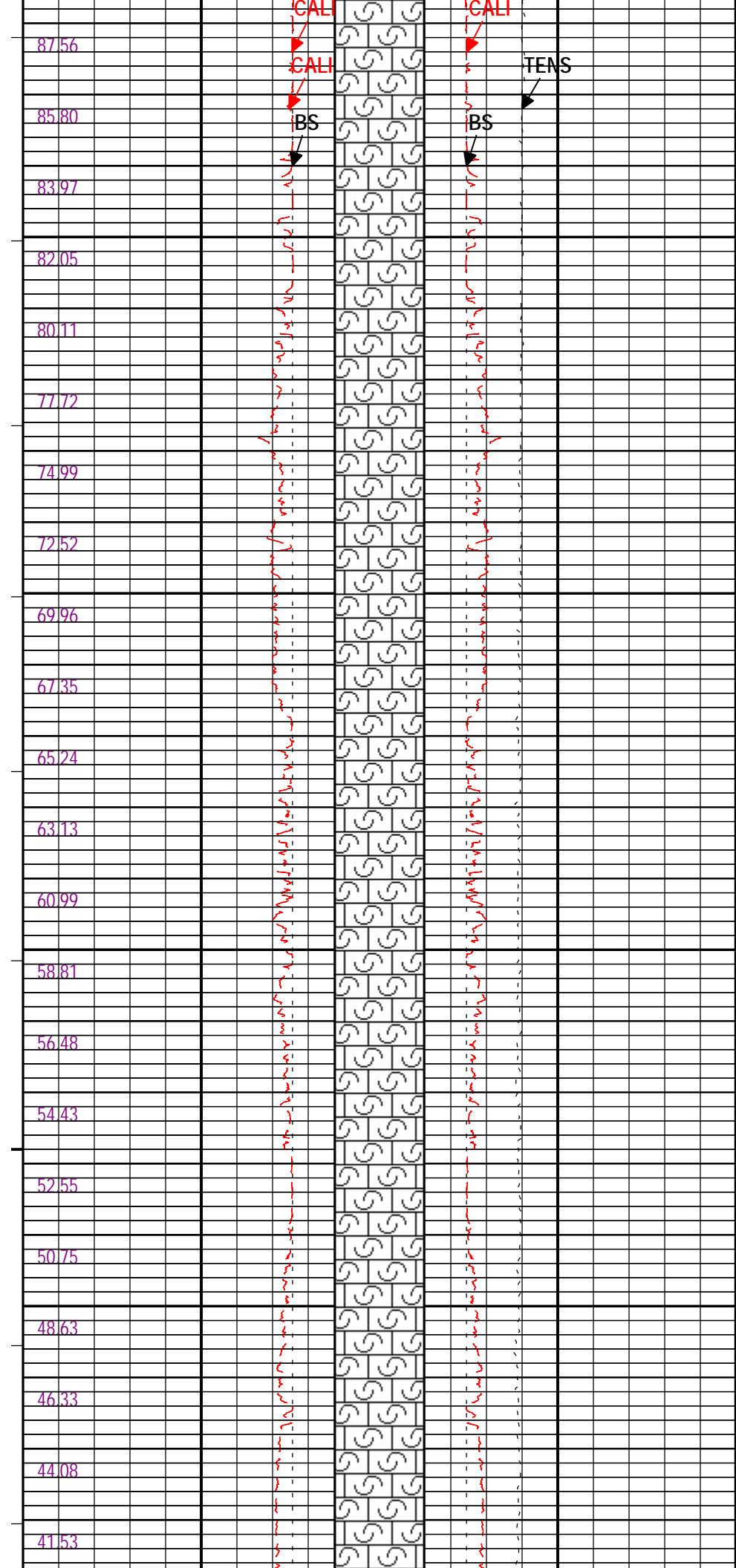
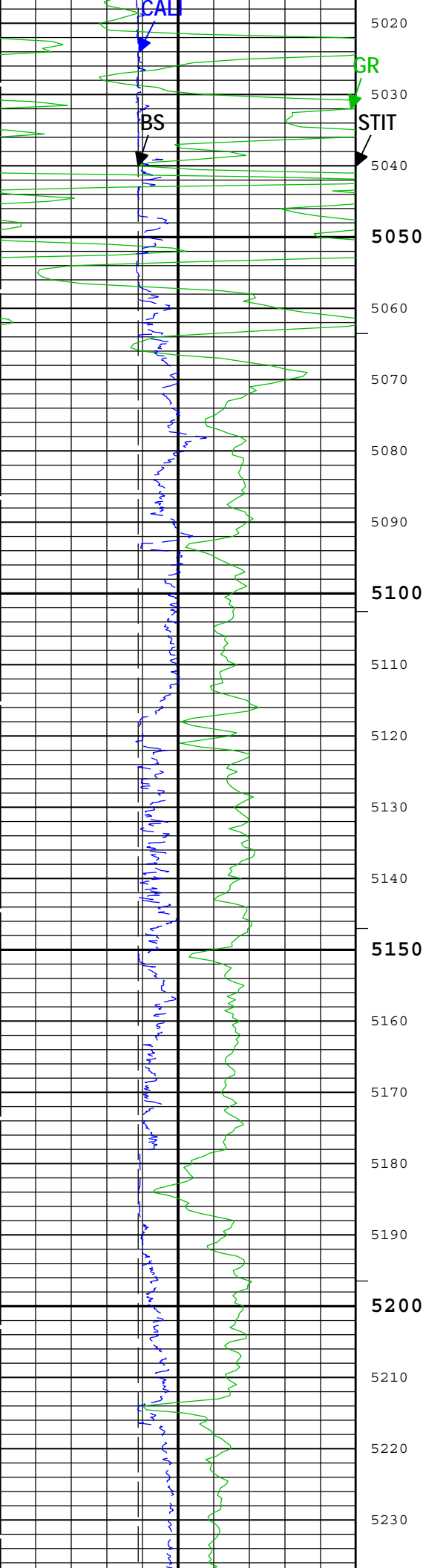
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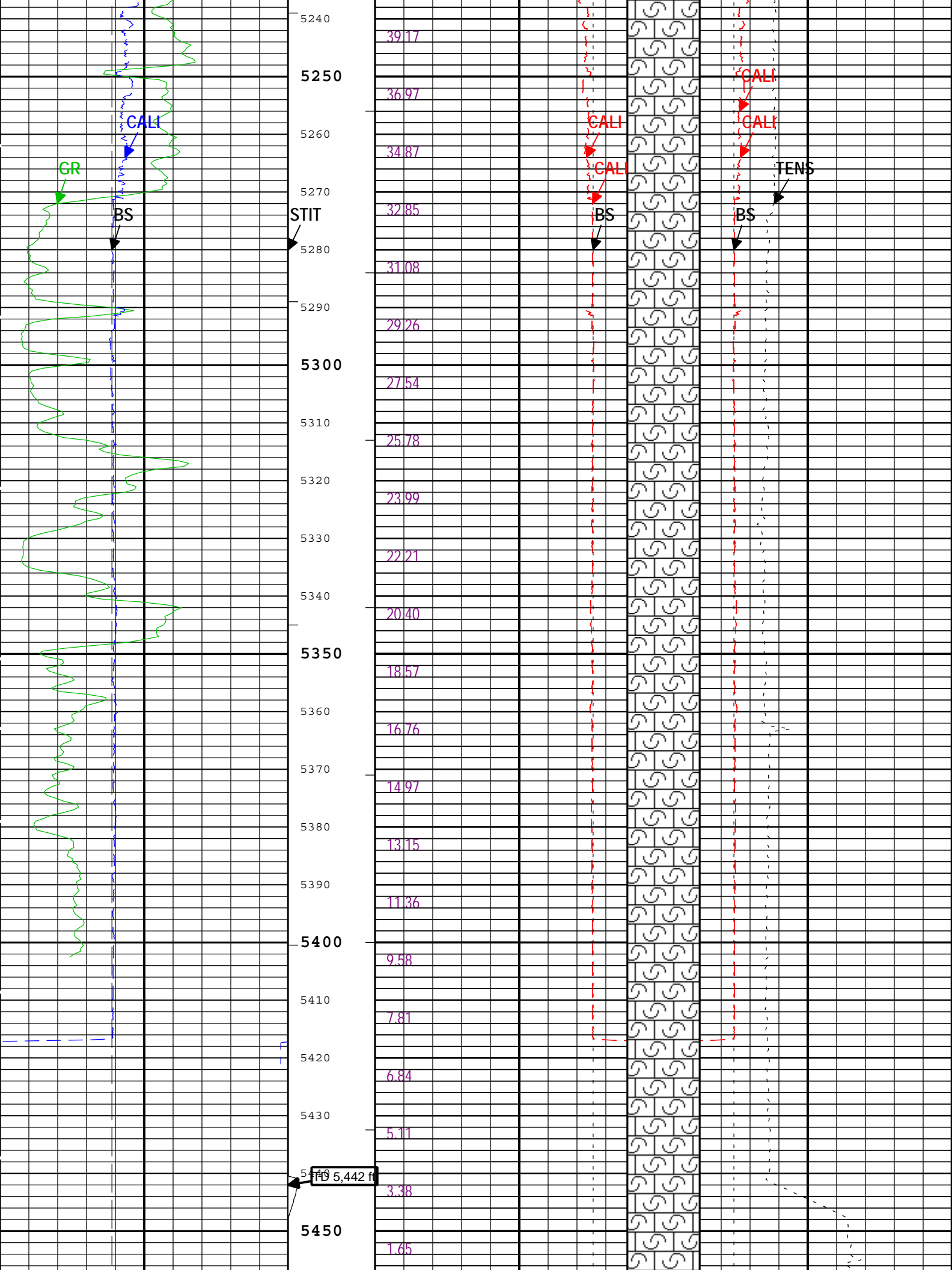
91.10

89.30

126.75

125.01





										5460																			
Bit Size (BS)										Stuck Tool Indicator, Total (STIT)										FCD2-FCD3									
4 in 14										0 ft 50										Future Casing (Outer) Diameter (FCD)									
Gamma Ray (GR) HGNS[1]																													
0 gAPI 200																				-17 in 23									
Caliper (CALI) HDRS[1]																				Future Casing (Outer) Diameter (FCD)									
4 in 14																				23 in -17									
																				Bit Size (BS)									
																				23 in 33 in 23									
																				Caliper (CALI) HDRS[1]									
																				23 in 35000 lbf 0									
																				Caliper (CALI) HDRS[1]									
																				23 in 33 in 23									
																				Integrated Cement Volume (ICV) ft3									
																				3 in 23									
<p>ICV - Integrated Cement Volume every 10.00 (ft3)</p> <p>IHV - Integrated Hole Volume every 10.00 (ft3)</p> <p>TIME_1900 - Time Marked every 60.00 (s)</p> <p>ICV - Integrated Cement Volume every 100.00 (ft3)</p> <p>IHV - Integrated Hole Volume every 100.00 (ft3)</p>																													
<p>Description: Format: Log ( Noble East Caliper ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Nov-2012 23:39:40</p>																													

Channel Processing Parameters				
Run-1: 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	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-B	0.109	in
CBLO	Casing Bottom (Logger)	WLSESSION	431	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	
SOCO	Standoff Correction Option	HGNS-B	Yes	
TD	Total Measured Depth	Borehole	5442	ft
Run-1Depth Zoned Parameters				
Parameter	Value	Start ( ft )	Stop ( ft )	
BS	0	400	434	
BS	7.875	434	5462	
All depth are actual.				
Tool Control Parameters				

Parameter		Description	Tool		Value	Unit	
MAX_LOG_SPEED		Toolstring Maximum Logging Speed	WLSESSION		1800	ft/h	
Calibration Report							
AIT-H (Array Induction Tool - H) Calibration - Run Run-1							
Primary Equipment :							
Array Induction Sonde - H			AHIS		398		
Auxiliary Equipment :							
AITH Rm/SP Bottom Nose			AHRM		398		
AIT Sonde Calibration - Test Loop Gain							
Master (EEPROM):		10:54:27 13-Sep-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.018	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	0.588	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.019	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.646	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.020	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	-0.013	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.018	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	0.040	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.999	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	-0.034	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.992	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.222	3.000	
Test Loop Gain - 6		Master	1.000	0.950	1.000	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.151	3.000	
Test Loop Gain - 7		Master	1.000	0.950	1.015	1.050	
Test Loop Phase - 7	deg	Master	0	-3.000	-0.171	3.000	
AIT Sonde Calibration - Sonde Error Correction							
Master (EEPROM):		10:54:27 13-Sep-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-83.485	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	113.456	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	170.122	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	141.828	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	113.188	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	31.028	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	59.559	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	44.859	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	23.005	35.000	
Sonde Error Correction Quad - 4		Master	-----	-63.000	-11.754	63.000	
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	14.030	24.000	
Sonde Error Correction Quad - 5		Master	-----	-50.000	2.131	50.000	
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.683	15.000	
Sonde Error Correction Quad - 6		Master	-----	-30.000	4.940	30.000	
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-1.093	5.000	
Sonde Error Correction Quad - 7		Master	-----	-30.000	3.075	30.000	
AIT Mud Calibration - Mud Calibration Gain							
Master (EEPROM):		10:54:27 13-Sep-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.821	1.200	
Fine Gain		Master	1.000	0.800	0.823	1.200	
AIT Electronics Check - Thru Calibration Check							
Master (EEPROM):		10:54:27 13-Sep-2012	Before (Measured):	10:57:04 19-Nov-2012	After:		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	-----	0.363	0.627	0.847	
		Before	-----	0.363	0.627	0.847	
		After	-----	-----	-----	-----	
		Before-After	-----	-----	0.000	-----	
		After-Before	-----	-----	-----	-----	
Thru Cal Phase - 0	deg	Master	-----	11.000	74.608	121.000	

Thru Cal Phase - 0	deg	Master	----	11.000	74.608	131.000	<div><div></div></div>
		Before	----	11.000	74.841	131.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.233	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 1	V	Master	----	0.762	1.285	1.778	<div><div></div></div>
		Before	----	0.762	1.285	1.778	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.000	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Phase - 1	deg	Master	----	10.000	73.598	130.000	<div><div></div></div>
		Before	----	10.000	73.830	130.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.232	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 2	V	Master	----	0.374	0.637	0.872	<div><div></div></div>
		Before	----	0.374	0.636	0.872	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-0.001	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Phase - 2	deg	Master	----	6.000	69.416	126.000	<div><div></div></div>
		Before	----	6.000	69.655	126.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.239	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 3	V	Master	----	0.422	0.723	0.986	<div><div></div></div>
		Before	----	0.422	0.723	0.986	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.000	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Phase - 3	deg	Master	----	5.000	68.514	125.000	<div><div></div></div>
		Before	----	5.000	68.754	125.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.240	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 4	V	Master	----	0.802	1.349	1.872	<div><div></div></div>
		Before	----	0.802	1.348	1.872	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-0.001	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Phase - 4	deg	Master	----	-1.000	61.558	119.000	<div><div></div></div>
		Before	----	-1.000	61.810	119.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.252	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 5	V	Master	----	1.173	1.947	2.737	<div><div></div></div>
		Before	----	1.173	1.946	2.737	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-0.001	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Phase - 5	deg	Master	----	-3.000	59.409	117.000	<div><div></div></div>
		Before	----	-3.000	59.659	117.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.250	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 6	V	Master	----	1.173	1.943	2.737	<div><div></div></div>
		Before	----	1.173	1.942	2.737	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-0.001	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Phase - 6	deg	Master	----	-3.000	59.473	117.000	<div><div></div></div>
		Before	----	-3.000	59.723	117.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.250	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 7	V	Master	----	0.849	1.382	1.981	<div><div></div></div>
		Before	----	0.849	1.381	1.981	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.001	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>



		Before-Master After-Before	----- -----	----- -----	-0.001 -----	----- -----	<div></div>
Thru Cal Phase - 7	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-7.000 -7.000 ----- ----- -----	53.953 54.249 ----- 0.296 -----	113.000 113.000 ----- ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
SPA Zero	mV	Master Before After Before-Master After-Before	   ----- -----	-50.000 -50.000 ----- ----- -----	-0.053 -0.061 ----- -0.008 -----	50.000 50.000 ----- ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
SPA Plus	mV	Master Before After Before-Master After-Before	   ----- -----	941.000 941.000 ----- ----- -----	993.658 993.363 ----- -0.295 -----	1040.000 1040.000 ----- ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Temperature Zero	V	Master Before After Before-Master After-Before	   ----- -----	-0.050 -0.050 ----- ----- -----	0.000 0.000 ----- 0.000 -----	0.050 0.050 ----- ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Temperature Plus	V	Master Before After Before-Master After-Before	   ----- -----	0.870 0.870 ----- ----- -----	0.920 0.920 ----- 0.000 -----	0.960 0.960 ----- ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>

## DSLT-H (Digitizing Sonic Logging Tool - H) Calibration - Run Run-1

Primary Equipment :	Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL	SLS-E	8011
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## CBL Normalization - CBL Accumulations

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div></div>
Upper Far Amplitude - 0		Master	-----	-----	-----	-----	<div></div>
Upper Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div></div>
Lower Far Amplitude - 0		Master	-----	-----	-----	-----	<div></div>
Lower Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div></div>

## CBL Normalization - CBL/VDL Coefficients

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div></div>
CBL Correction Factor for UT		Master	3.500	2.700	NOT DONE	4.300	<div></div>
CBL Correction Factor for LT		Master	2.500	1.700	NOT DONE	4.300	<div></div>
VDL Ratio between UT and LT for CBLB Mode		Master	1.000		NOT DONE		<div></div>

## CBL Free Pipe Adjustment - Free Pipe Measurement

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div></div>
CBL Amplitude - 0	mV	Before	-----	-----	-----	-----	<div></div>
CBL Reference Amplitude (CBRA) - 0	mV	Before	-----	-----	-----	-----	<div></div>
Measurement Depth - 0	ft	Before	-----	-----	-----	-----	<div></div>

## CBL Free Pipe Adjustment - CBL Amplitude Coefficient

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div></div>
CBL Adjustment Factor		Before	1.000	0.200	NOT DONE	5.000	<div></div>
Depth of Before Calibration	ft	Before			NOT DONE		<div></div>

## HDRS-B (HILT Density and Rxo Sonde, 125 degC) Calibration - Run Run-1

Primary Equipment :	HILT High-Resolution Control Cartridge, 125 degC	HRCC-B	791
	HILT Resistivity Gamma-Ray Density Device, 125 degC	HRGD-B	1849

Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5094
HILT High-Resolution Control Cartridge, 125 degC	HRCC-B	791
HILT High-Resolution Mechanical Sonde, 125 degC	HRMS-B	1754

Calibration Parameter :

Small Ring Size (Caliper Calibration Small Ring)	8.00
Large Ring Size (Caliper Calibration Large Ring)	12.00

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured):		11:01:07 19-Nov-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	8.02	10.00	
Large Ring	in	Before	12.00	9.00	12.20	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM):		15:32:56 16-Nov-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.600	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.686	1.696	
Pe Aluminum		Master	2.570	2.470	2.563	2.670	
Pe Magnesium		Master	2.650	2.550	2.632	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM):		15:32:56 16-Nov-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.4813	0.6000	
BS Max Deviation	%	Master	0	-1.6000	1.0620	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.3288	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.5436	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.5170	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.2479	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM):		15:32:56 16-Nov-2012		Before (Measured):		11:04:03 19-Nov-2012	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7367		
		Before	0.7367	0.6998	0.7377	0.7735	
		Before-Master	-----	-----	0.0010	-----	
BS Window Sum	1/s	Master	1		9557		
		Before	9557	9080	9556	10035	
		Before-Master	-----	-----	-1	-----	
SS Window Ratio		Master	1.0000		0.4943		
		Before	0.4943	0.4696	0.4948	0.5190	
		Before-Master	-----	-----	0.0005	-----	
SS Window Sum	1/s	Master	1		9176		
		Before	9176	8717	9196	9635	
		Before-Master	-----	-----	20	-----	
LS Window Ratio		Master	1.0000		0.2976		
		Before	0.2976	0.2828	0.2997	0.3125	
		Before-Master	-----	-----	0.0021	-----	
LS Window Sum	1/s	Master	1		1073		
		Before	1073	1020	1072	1127	
		Before-Master	-----	-----	-1	-----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM):		15:32:56 16-Nov-2012		Before (Measured):		11:04:03 19-Nov-2012	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1627	2400	
		Before		1000	1622	2400	
		Before-Master	-----	-100	-5	100	
SS PM High Voltage	V	Master		1000	1690	2400	
		Before		1000	1695	2400	
		Before-Master	-----	-100	5	100	



Far Zero Measurement	1/s	After-Before	----	----	----	----	
		Master	0	5.0	26.8	40.0	
		Before	0	5.0	27.4	40.0	
		After	----	----	----	----	
		Before-Master	----	-4.0	0.6	4.0	
Near Plus Measurement - 0	1/s	After-Before	----	----	----	----	
		Master	6031.0	4700.0	4898.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
Far Plus Measurement - 0	1/s	After-Before	----	----	----	----	
		Master	2793.0	1900.0	2070.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
Near Corrected Plus Measurement - 0	1/s	After-Before	----	----	----	----	
		Master		4700.0	4970.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
Far Corrected Plus Measurement - 0	1/s	After-Before	----	----	----	----	
		Master		1900.0	2107.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	

### HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		11:02:29 19-Nov-2012		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	73.3	120.0	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before	185.4	157.1	170.6	206.3	
		After	----	----	NOT DONE	----	
		After-Before	----	----	----	----	
GR Calibration Gain		Before	0.89	0.80	0.97	1.05	
		After	----	----	----	----	
		After-Before	----	----	----	----	

### LEH-QT (Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor) Calibration - Run Run-1

Primary Equipment :		Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor		LEH-QT			
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### HTEN Master Calibration - HTEN Master Calibration

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
HTEN Shop Gain		Master	1.000	0.800	NOT DONE	4.500	
HTEN Shop Offset	lbf	Master	0	-1000.000	NOT DONE	1000.000	

### HTEN Before Calibration - HTEN Before Calibration

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RHTE Zero Measurement - 0	lbf	Before	----	----	----	----	
RHTE Plus Measurement - 0	lbf	Before	----	----	----	----	
HTEN Gain - 0		Before	----	----	----	----	
HTEN Offset - 0	lbf	Before	----	----	----	----	

Field:	Wildcat
County:	Cheyenne
State:	Colorado
Platform Express	
Caliper	
Cement Volume	