

Company: Omimex Petroleum Inc

Well: Fiddler Peak Ranch 4-3-5-45

Field: Ballyneal

County: Yuma State: Colorado

County: Yuma
Field: Ballyneal
Location: NWNW Sec3 T5N R45W
Well: Fiddler Peak Ranch 4-3-5-45
Company: Omimex Petroleum Inc

Platform Express

Caliper

Cement Volume

Location:		Elev.:		K.B.	
NWNW Sec3 T5N R45W		SHL: 433' FNL, 603' FWL		3798.00 ft	
Permanent Datum:		Ground Level		Elev.: 3792.00 f	
Log Measured From:		Kelly Bushing		6.00 ft	
Drilling Measured From:		Kelly Bushing		above Perm.Datum	
API Serial No.	Section:	Township:		Range:	
05-125-12124	3	5N		45W	

Logging Date	15-Nov-2014				
Run Number	ONE				
Depth Driller	2725.00 ft				
Schlumberger Depth	2726.00 ft				
Bottom Log Interval	2726.00 ft				
Top Log Interval	494.00 ft				
Casing Driller Size @ Depth	7 in @ 493.00 ft				
Casing Schlumberger	494 ft				
Bit Size	6.25 in				
Type Fluid In Hole	Water				
MUD	Density	8.8 lbm/gal	29 s		
	Fluid Loss	3.2 cm3	8		
	Source of Sample				
RM @ Meas Temp	0.23 ohm.m @ 86 degF				
RMF @ Meas Temp	0.16 ohm.m @ 86 degF				
RMC @ Meas Temp	0.31 ohm.m @ 86 degF				
Source RMF	RMC	Calculated	Calculated		
RM @ BHT	RMF @ BHT	0.19 @ 103	0.14 @ 103		
Max Recorded Temperatures			103 degF		
Circulation Stopped		Time	15-Nov-2014 11:45:00		
Logger on Bottom		Time	15-Nov-2014 16:39:12		
Unit Number	Location:	9108	Fort Morgan		
Recorded By	B Makinson				
Witnessed By	Paul Dekaye				

Disclaimer

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Well Sketch

Driller Depth

0.00 ft

493.00 ft


Casing 7in
20lbm/ft

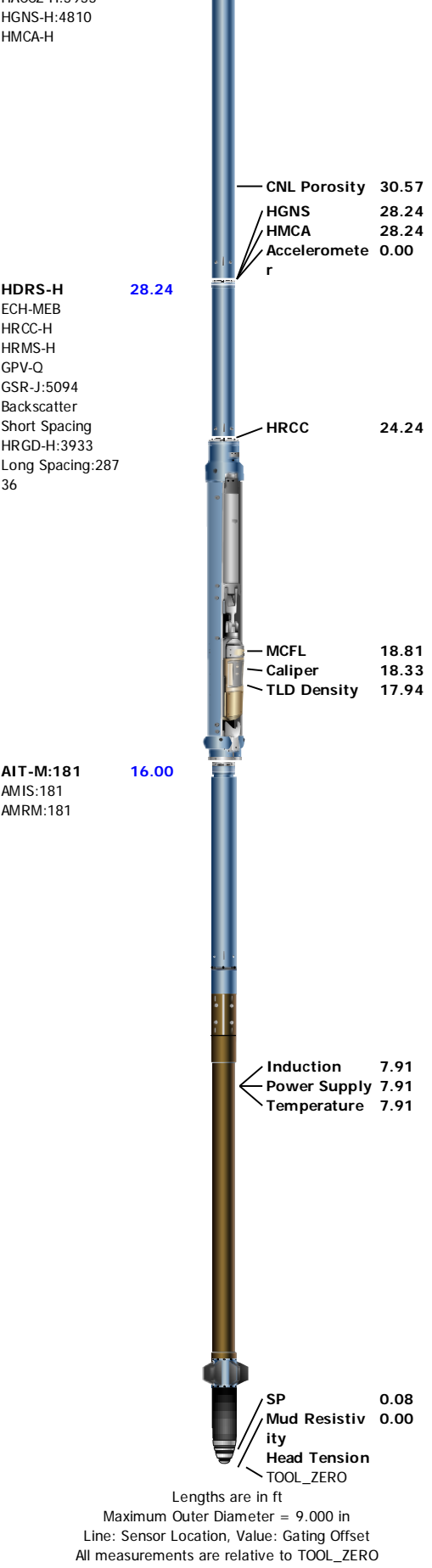


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	6.25					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	2725					
Bottom Logger (ft)	2726					
Casing						
Size (in)	7					
Weight (lbm/ft)	20					
Inner Diameter (in)	6.456					
Grade	J55					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	493					
Bottom Logger (ft)	494					

Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks	
Equip name	Length	MP name	Offset	First run in the well.	
LEH-QT	51.57			Toolstring run as per tool sketch.	
LEH-QT				No bowspring used to eccentric HGNS as per	
DTC-H	48.65			Limestone matrix, MDEN: 2.71	
ECH-KC			47.75	Neutron corrections applied: Hole size,	
DTC-H			0.00	Cement volume calculated assuming 4.5"	
AH-184[2]	45.65		45.65	Down log stretch correction: 0.26 ft.	
AH-184[1]	43.65			Caliper check in casing within 0.1" tolerance.	
GPIT-F	41.65			Mud resistivity measured from AIT AMF.	
GPIH-B				TD: 2726 ft, CSG: 498 ft.	
DHRU-F					
GPIC-F					
		GPIT-F Incl	40.23		
		ometer			
		GPIT	0.00		
HGNS-H:4810	37.65	Temperature	37.62		
HGNH					
NSR-F:5215		GR	36.91		
NPV-N					
HACCZ-H:5955					



Depth Summary

	ONE		
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Depth Measuring Device

Type	IDW-JA		
Serial Number	6431		
Calibration Date	07-Apr-2014		

Calibrator Serial Number		7-46 AXS							
Calibration Cable Type		-4							
Wheel Correction 1		-4							
Wheel Correction 2		-4							
Tension Device									
Type		CMTD-B/A							
Serial Number		147							
Calibration Date		19-Oct-2014							
Calibrator Serial Number		78135A							
Number of Calibration Points		10							
Calibration Root Mean Square Error		78							
Calibration Peak Error		130							
Logging Cable									
Type		7-46A-XS							
Serial Number		U714022							
Length		18500.00 ft							
Conveyance Type		Wireline							
Rig Type		Single							
ONE: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		0.26 ft							
Tool Zero Check At Surface									
ONE									
Cement									
Integration Summary									
Output Channel(s)	Output Description	Input Parameter		Output Value		Unit			
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD		249.86		ft3			
IHV	Integrated Hole Volume	GCSE_UP_PASS		497.6		ft3			
Software Version									
Acquisition System				Version					
MaxWell				4.0.9163.3000					
Application Patch				Patch-SP-10767_26570-4.0.9163.3001					
Computation		Description				Version			
Borehole		Borehole Ensemble provides common Borehole Parameters and Channels				4.0.9469.3000			
DepthCorrection		DepthCorrection				4.0.9469.3000			
Tool Elements		Description		Software Version		Firmware Version			
HRCC-H		HILT High-Resolution Control Cartridge, 150 degC		4.0.9575.3000		2.0			
HGNS-H		HILT Gamma-Ray and Neutron Sonde, 150 degC		4.0.9575.3000		2.0			
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[4]:Up	Up	38.39 ft	2736.62 ft	15-Nov-2014 5:00:13 PM	15-Nov-2014 5:50:10 PM	ON	0.00 ft	No
All depths are referenced to toolstring zero									
Log	Company:Omimex Petroleum Inc			Well:Fiddler Peak Ranch 4-3-5-45			ONE: Log[4]:Up:S002		
Description: Format: Log (Noble East Caliper) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 15-Nov-2014 18:19:37									

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

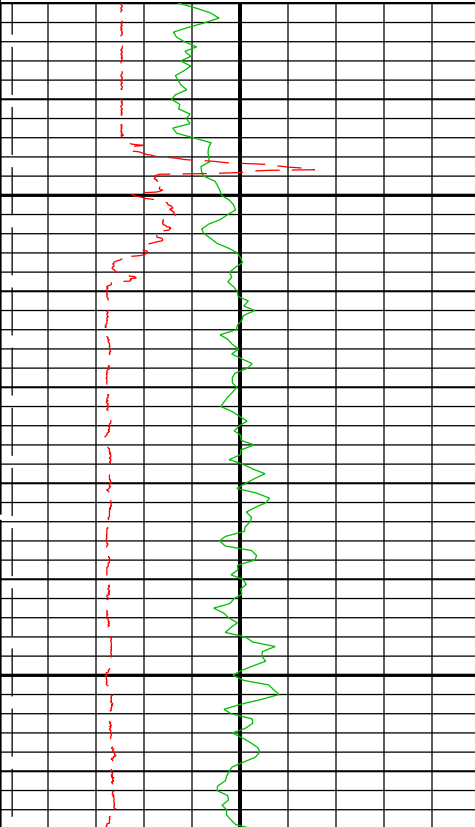
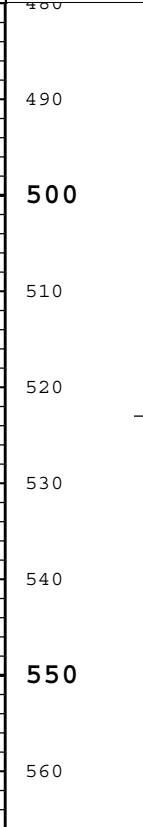
—IHV - Integrated Hole Volume every 100.00 (ft3)

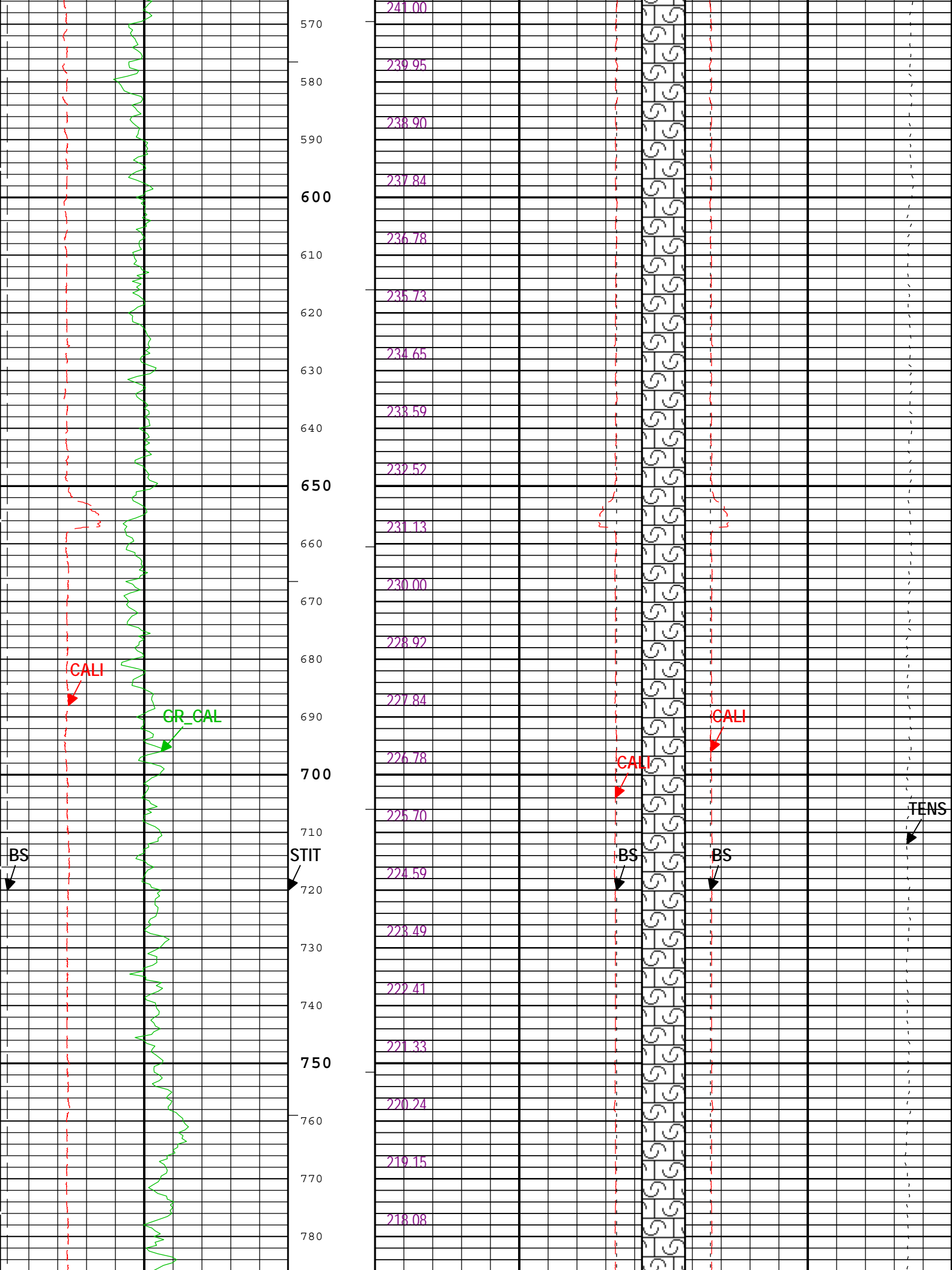
TIME_1900 - Time Marked every 60.00 (s)

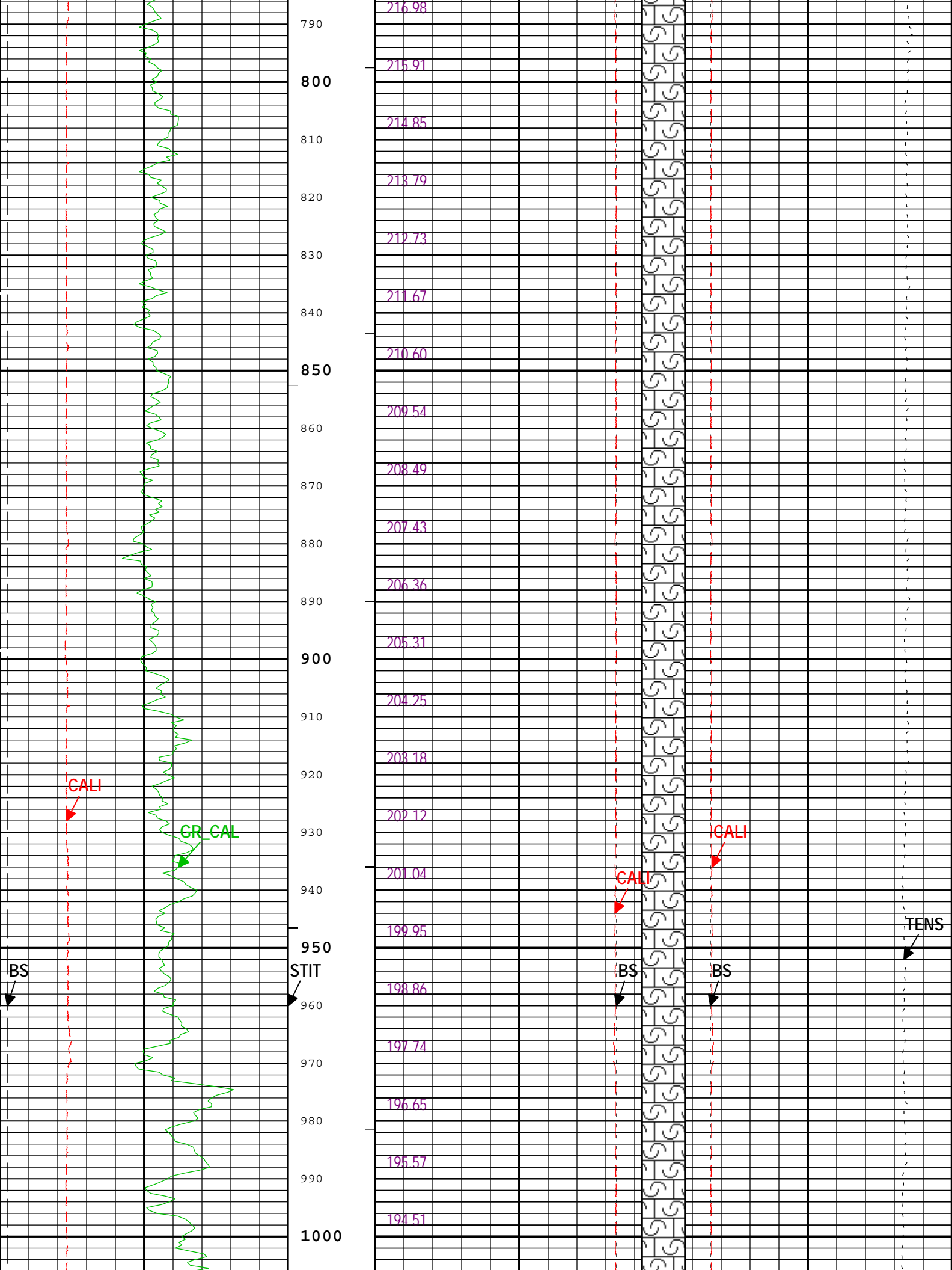
ICV - Integrated Cement Volume every 100.00 (ft3)

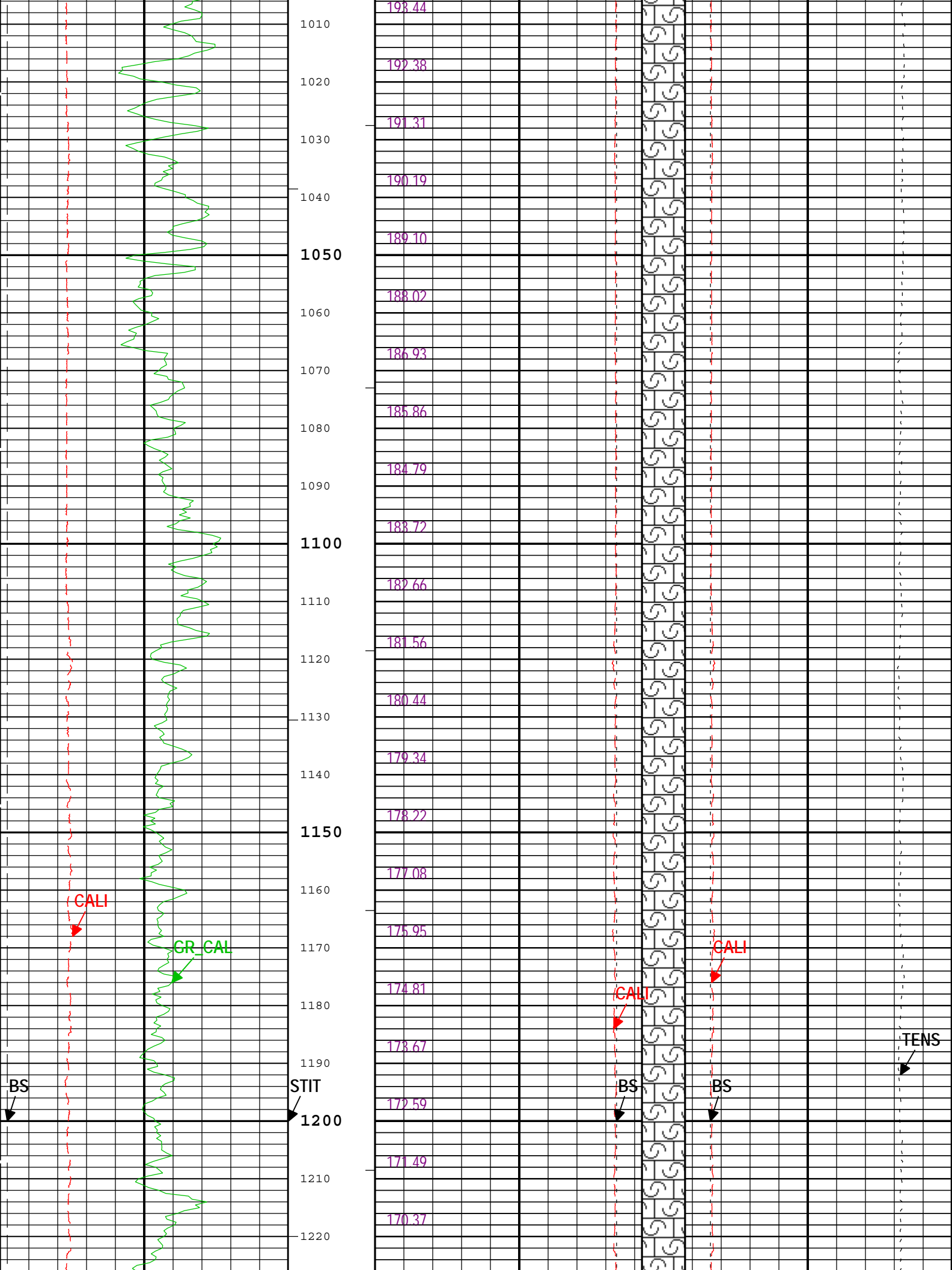
—IHV - Integrated Hole Volume every 10.00 (ft3)

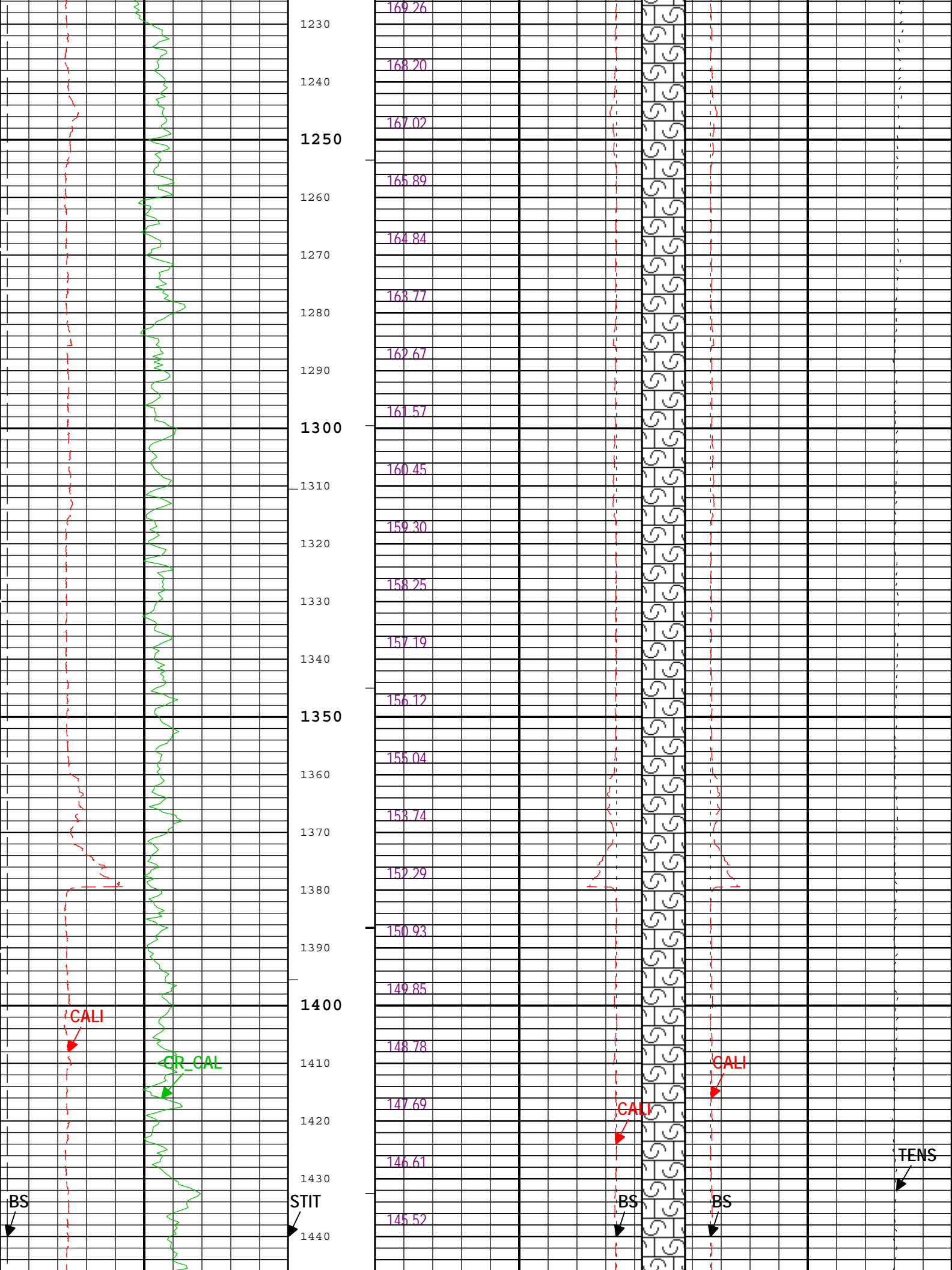
└ ICV - Integrated Cement Volume every 10.00 (ft3)

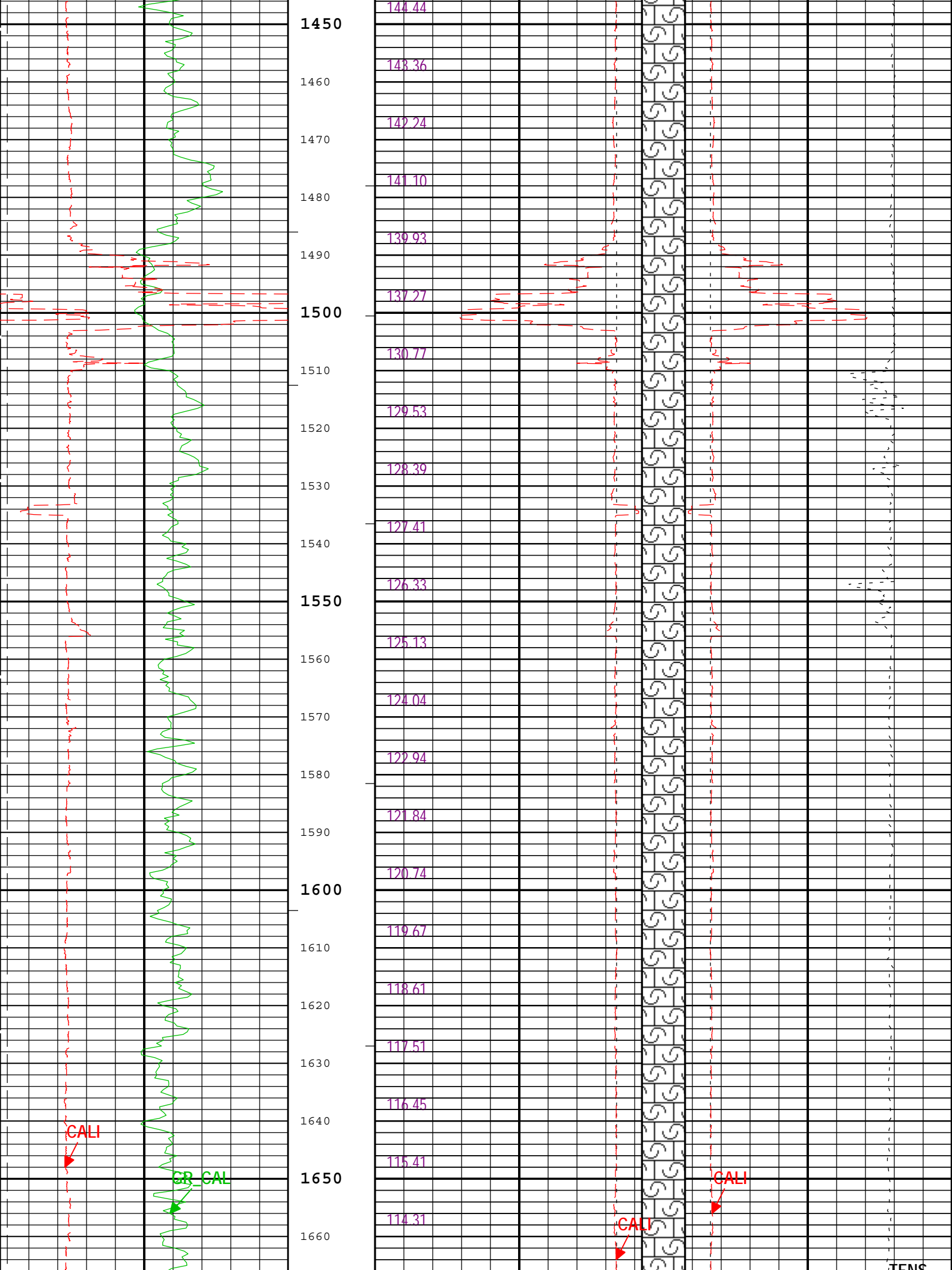
			Integrated Cement Volume (ICV) ft3				Bit Size (BS) 3 in 23	
			Bit Size (BS) 23 in 3		6000 lbf		Cable Tension (TENS) 0	
			Caliper (CALI) HDRS-H 23 in 3		3		Caliper (CALI) HDRS-H 3 in 23	
					FCD2-FCD3			
			Future Casing (Outer) Diameter (FCD) -17 in 23					
			Future Casing (Outer) Diameter (FCD) 23 in -17					
Bit Size (BS) 6 in 16			Stuck Tool Indicator, Total (STIT) 0 ft 50					
Calibrated Gamma Ray (GR_CAL) HGNS-H 0 gAPI 200								
Caliper (CALI) HDRS-H 4 in 14								
								
			480					
			490					
			500					
			510					
			520					
			530					
			540					
			550					
			560					

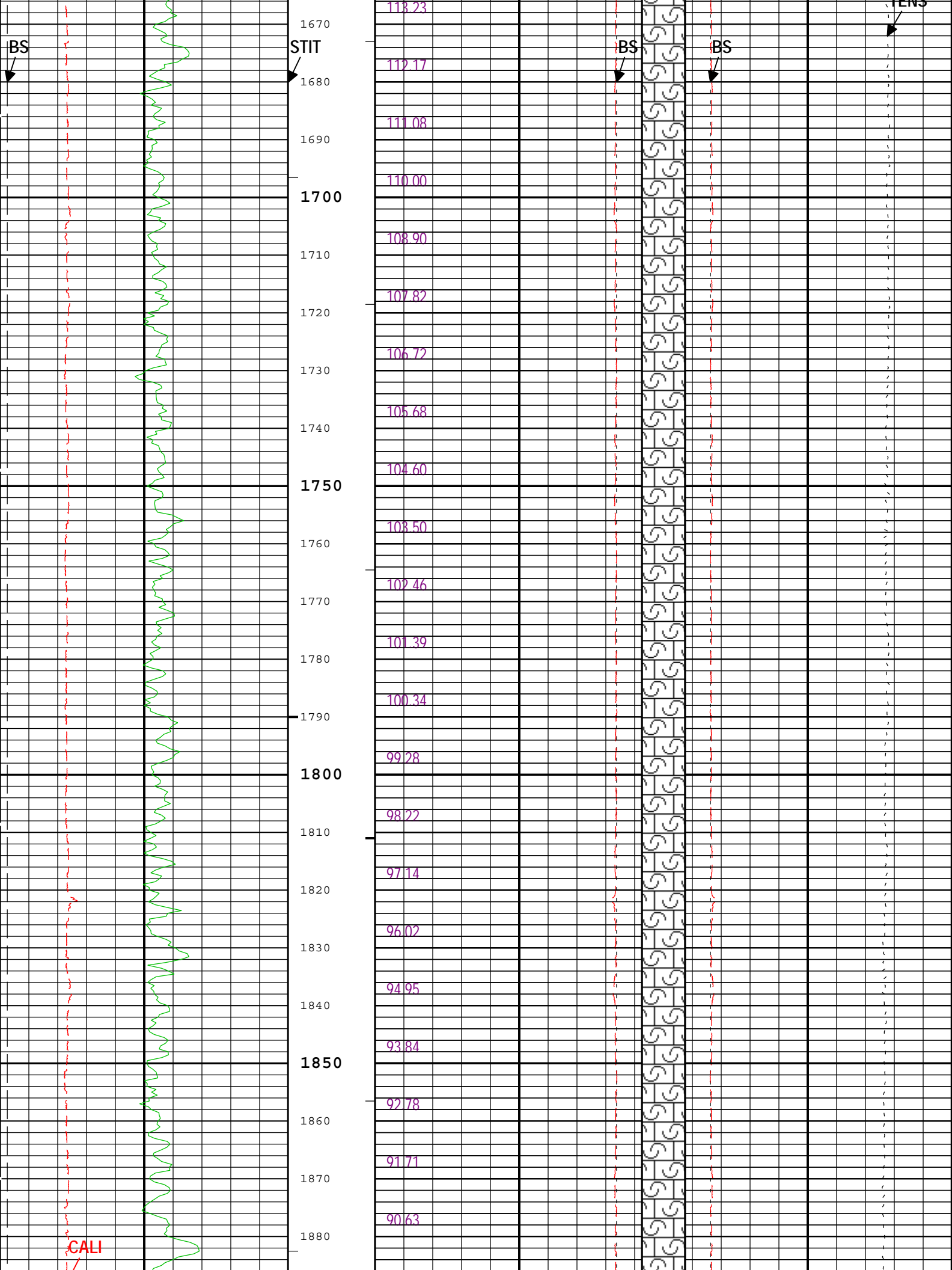


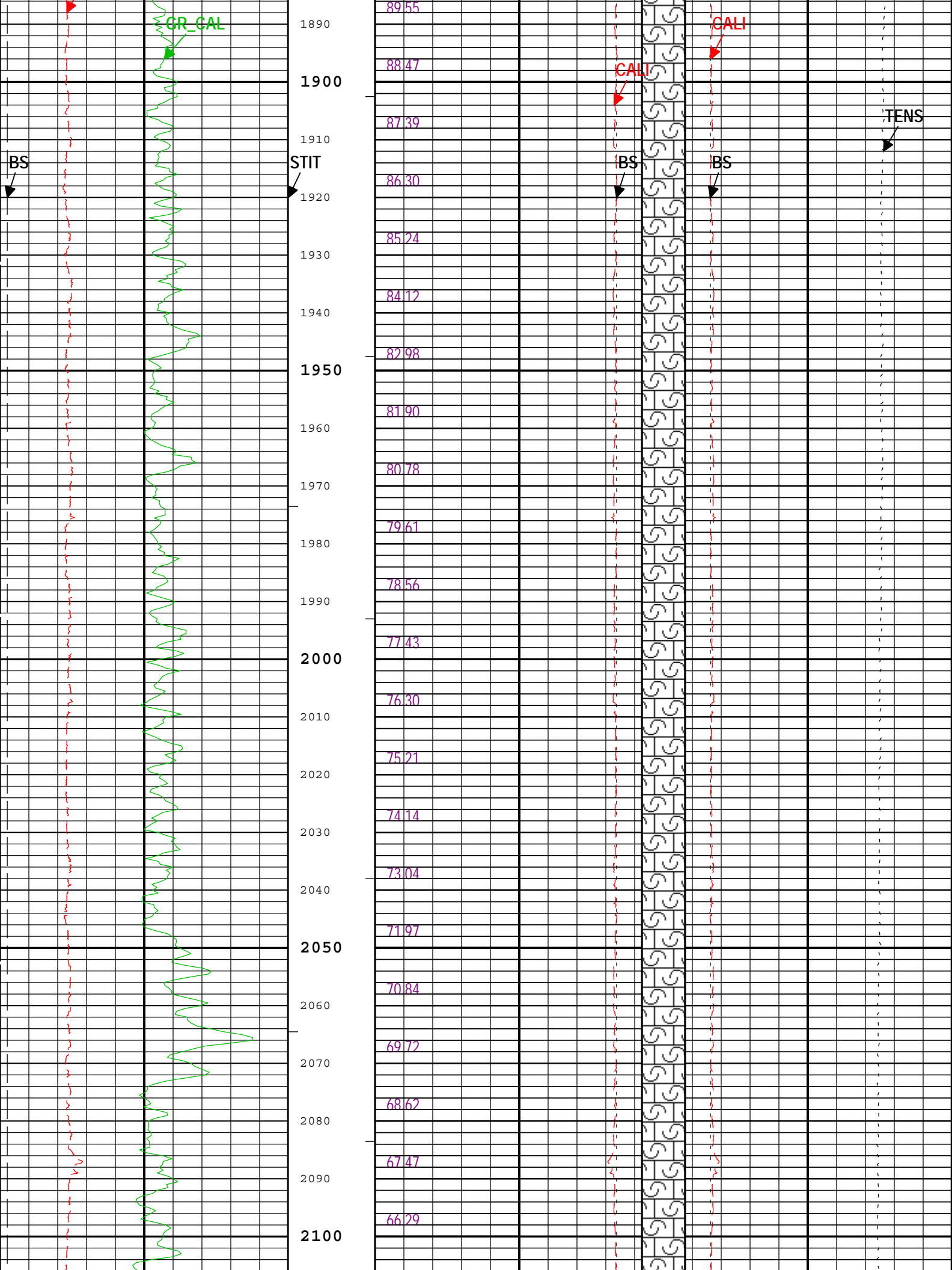


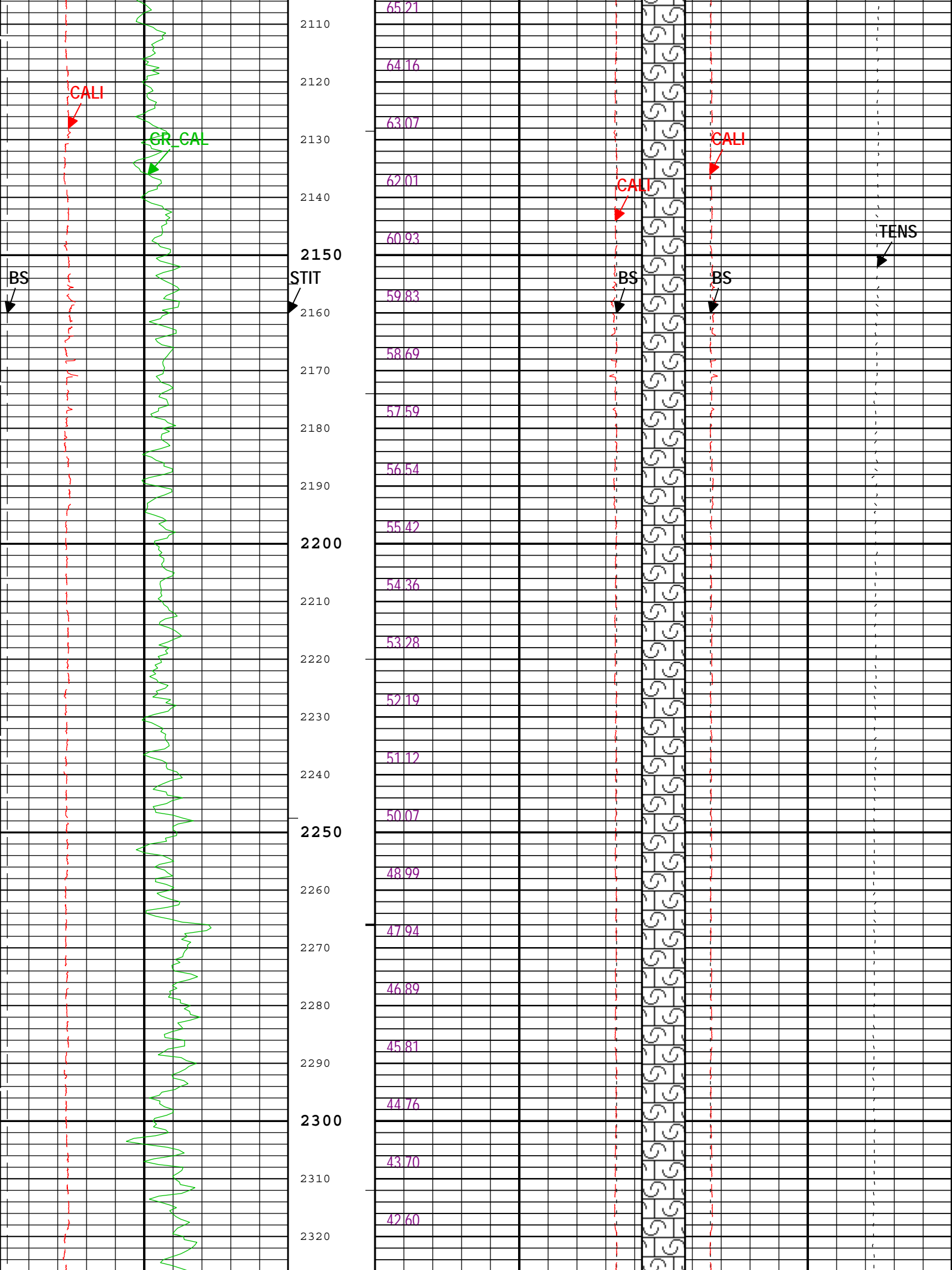


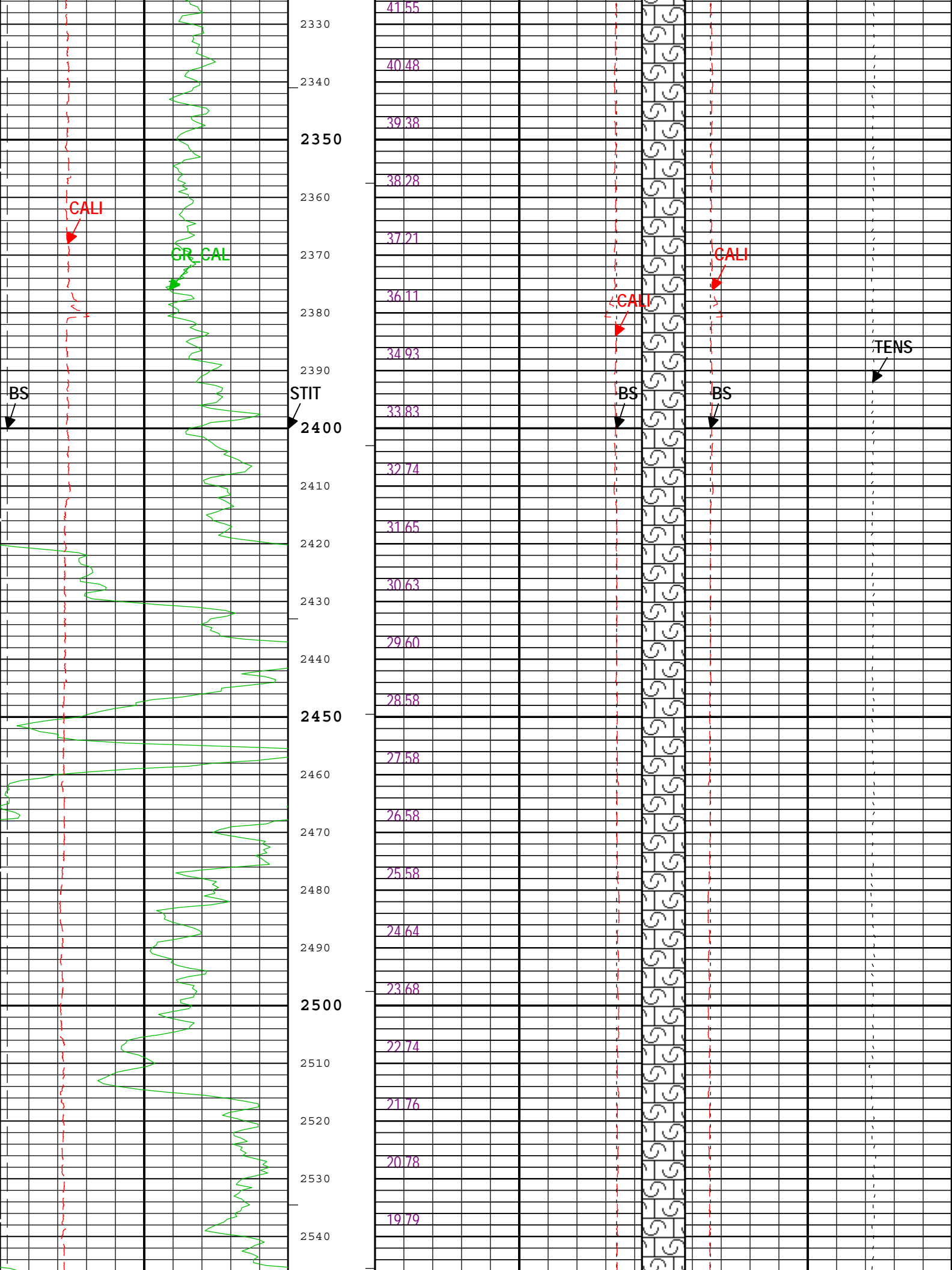


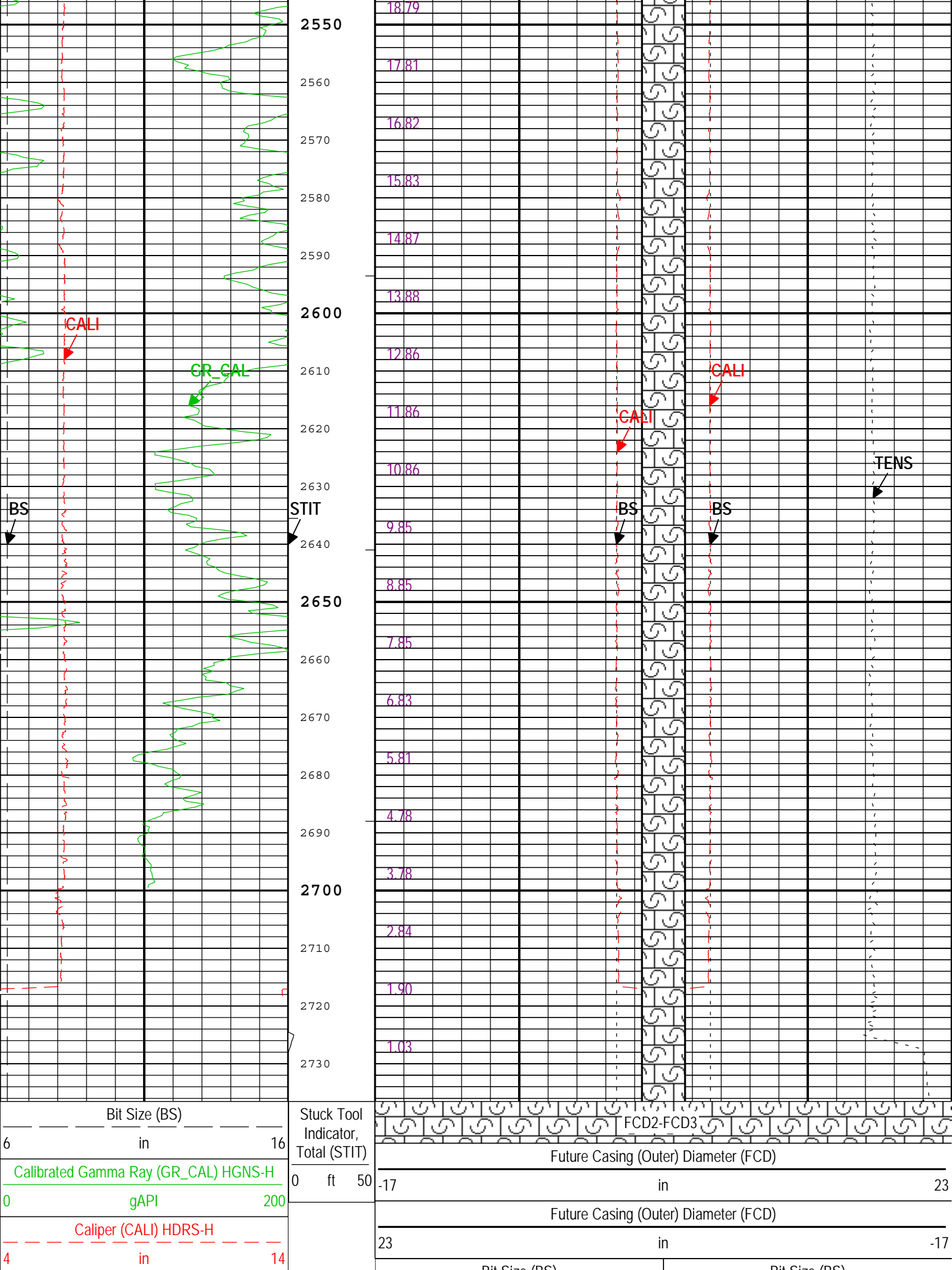












Bit Size (BS)

23in3

Caliper (CALI) HDRS-H

23in3

Integrated Cement Volume (ICV)
ft3

Bit Size (BS)

3in23

Cable Tension (TENS)

6000lbf0

Caliper (CALI) HDRS-H

3in23

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: 15-Nov-2014 18:19:37

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	6.25	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	494	ft
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	7	in
FCD	Future Casing (Outer) Diameter	WLSESSION	4.5	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	2726	ft

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

Calibration Report

HDRS-H (HILT Density and Rxo Sonde, 150 degC) Calibration - Run ONE

Primary Equipment :

HILT High-Resolution Control Cartridge, 150 degC

HRCC-H

HILT Resistivity Gamma-Ray Density Device, 150 degC

HRGD-H

3933

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):		11:58:26 15-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	7.56	10.00	
Large Ring	in	Before	12.00	9.00	11.85	15.00	

HDRS Density Calibration - Background Summary							
Before (Measured):		12:28:56 15-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Before	0.7486	0.7111	0.7503	0.7860	
BS Window Sum	1/s	Before	23350	22183	23336	24518	
SS Window Ratio		Before	0.4883	0.4639	0.4867	0.5127	
SS Window Sum	1/s	Before	10931	10384	10899	11477	
LS Window Ratio		Before	0.3000	0.2850	0.3024	0.3150	
LS Window Sum	1/s	Before	1194	1134	1188	1253	

HDRS Density Calibration - Photo-multiplier High Voltages

Before (Measured):		12:28:56 15-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Before		1000	1600	2400	
SS PM High Voltage	V	Before		1000	1490	2400	
LS PM High Voltage	V	Before		1000	1290	2400	
HDRS Density Calibration - Crystal Quality Resolutions							
Before (Measured):		12:28:56 15-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Before		5.00	10.79	25.00	
SS Crystal Resolution	%	Before		5.00	9.92	20.00	
LS Crystal Resolution	%	Before		5.00	8.28	20.00	
HDRS MCFL Calibration - MCFL Accumulations							
Before (Measured):		12:23:12 15-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3873	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3812	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3819	4136	

Company:	Omimex Petroleum Inc	Schlumberger
Well:	Fiddler Peak Ranch 4-3-5-45	
Field:	Ballyneal	

County:	Yuma
State:	Colorado
Platform Express	
Caliper	
Cement Volume	