

Well: Craigow-1
Field: Craigow
Rig: Kan Tan IV

Country: **Australia**[illegible]

Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth		@	
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density	Viscosity		
Fluid Loss	PH		
Source Of Sample			
MUD			

RM @ Measured Temperature		@	
RMF @ Measured Temperature		@	
RMCM @ Measured Temperature		@	
Source RMF	RMCM		
RM @ MRT	RMF @ MRT	@	@
Maximum Recorded Temperatures			
Circulation Stopped	Time		
Logger On Bottom	Time		
Unit Number	Location		
Recorded By			

Witnessed By _____,

[illegible]

DEPTH SUMMARY LISTING

Date Created: 2-JAN-2011 23:59:06

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-JA	Type:	CMTD-B/A	Type:	7-46ZV XS
Serial Number:	6928	Serial Number:	1133	Serial Number:	75297
Calibration Date:	24-Aug-2010	Calibration Date:	10-Dec-2009	Length:	5780 M
Calibrator Serial Number:	18	Calibrator Serial Number:	177876	Conveyance Method: Wireline Rig Type: Offshore Floater with WMC	
Calibration Cable Type:	7-46ZV XS	Number of Calibration Points:	10		
Wheel Correction 1:	-5	Calibration RMS:	11		
Wheel Correction 2:	-2	Calibration Peak Error:	18		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	51.86 M
Rig Up Length At Bottom:	51.66 M
Rig Up Length Correction:	0.20 M
Stretch Correction:	0.50 M
Tool Zero Check At Surface:	3.00 M

Depth Control Remarks

1. All Schlumberger Depth Control Procedures Followed
2. IDW used as Primary depth control and Z-Chart as Secondary
3. Tide Correction of 0.12m applied
4. Log Correlated to Downlog giving a DO = 0.5m
- 5.
- 6.

DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: None	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Craigow-1 is a vertical well located in Bass Strait. Bridged at 1746m and TD not tagged.	
First run in hole. Toolstring run as per tool sketch. Pex data requested TD-1150m, HRLA TD-Casing, MSIP TD – Surface.	
HRLA centralized with four 2.5" standoffs	
PEX ecentralized with bow springs	
Neutron corrected for borehole salinity, hole size, mud weight, pressure/temperature and standoff	
Rock matrix for neutron porosity correction is Limestone	

No Repeat interval was performed, as per client request
Caliper check in casing reading: 12.415"
Sonic Scanner centrilized with one 2.5" standoffs and one LZME
Sonic Scanner main pass recorded in Standard mode from TD to top of cement
Log correlated at peak at 1680m giving DO = 0.5m. Tide correction of 0.12m applied.
RMF>RM and re-measured with same result
Maximum deviation provided by directional drillers: 1.48deg @ 1773.44m
Maximum recorded temperatures taken from three head thermometers at 75.55 Deg C for all three
Additional mud properties:
Chlorides= 51000mg/L, FV= 51sec/qt, PV= 17cP, YP= 23bs100/Ft2, Tot.hardness = 100(Ca++)

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

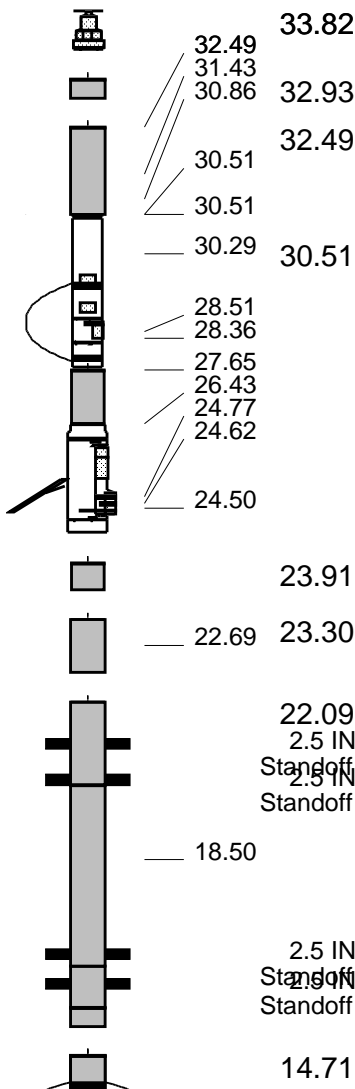
EQUIPMENT DESCRIPTION

RUN 1

RUN 2

SURFACE EQUIPMENT	
WITM (EDTS)-A	NCS-VB
GSR-U/Y	
NCT-B	
CNB-AB	

DOWNHOLE EQUIPMENT	
LEH-QT	MDSB_EDTC
LEH-QT	Mud Tempe
AH-369	CTEM
EDTC-B	Gamma Ray
EDTH-B 8706	EFTB DIAG
EDTC-B 8691	TelStatus
EDTG-A/B 77662	EDTCB Ele
	HGNS HTEM
	HMCA
HILTH-FTB	HGNS Gamm
HGNSD-H 4874	
HMCA-H	HGNS Neut
HGNH 3991	HGNS Neut
NLS-KL	HGNS sens
NSR-F 5216	HRCC cart
HACCZ-H 6990	MCFL
HCNT-H	HILT cali
HGR	HRDD-LS
HRCC-H 4866	HRDD-SS
HRMS-H 4838	HRDD-BS
HRGD-H 4968	
GLS-VJ 5262	
AH-184	
SPA-A	SP SPARC
SPA-A	
HRLT-B	
HRUH-B 967	
HRUC-B 985	
HRLS-B 721	
HRLH-B 966	
HRLC-B 964	
AH-270 1712	High Res.
MAPC-B	



MAPC-BA 8029
ECH-SF 8029
MAMS-BA 8004

MAXS-B
MASS-BA 8036
MAXS-BA 8036

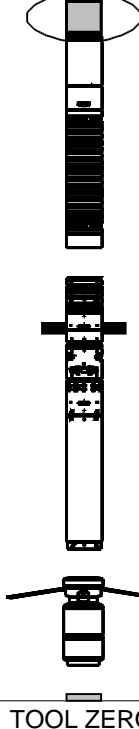
PPC1
PPC1-B 8464
PPC_CAL_STD 8464

BNS-CCS

MAMS-PS

MAXS-PS

Calipers
PPC_Cartr
DF ACCZ
HMAS HV
Accelerom
Tension



10.00

8.30
2.5 IN
Standoff

2.13

1.78
0.14

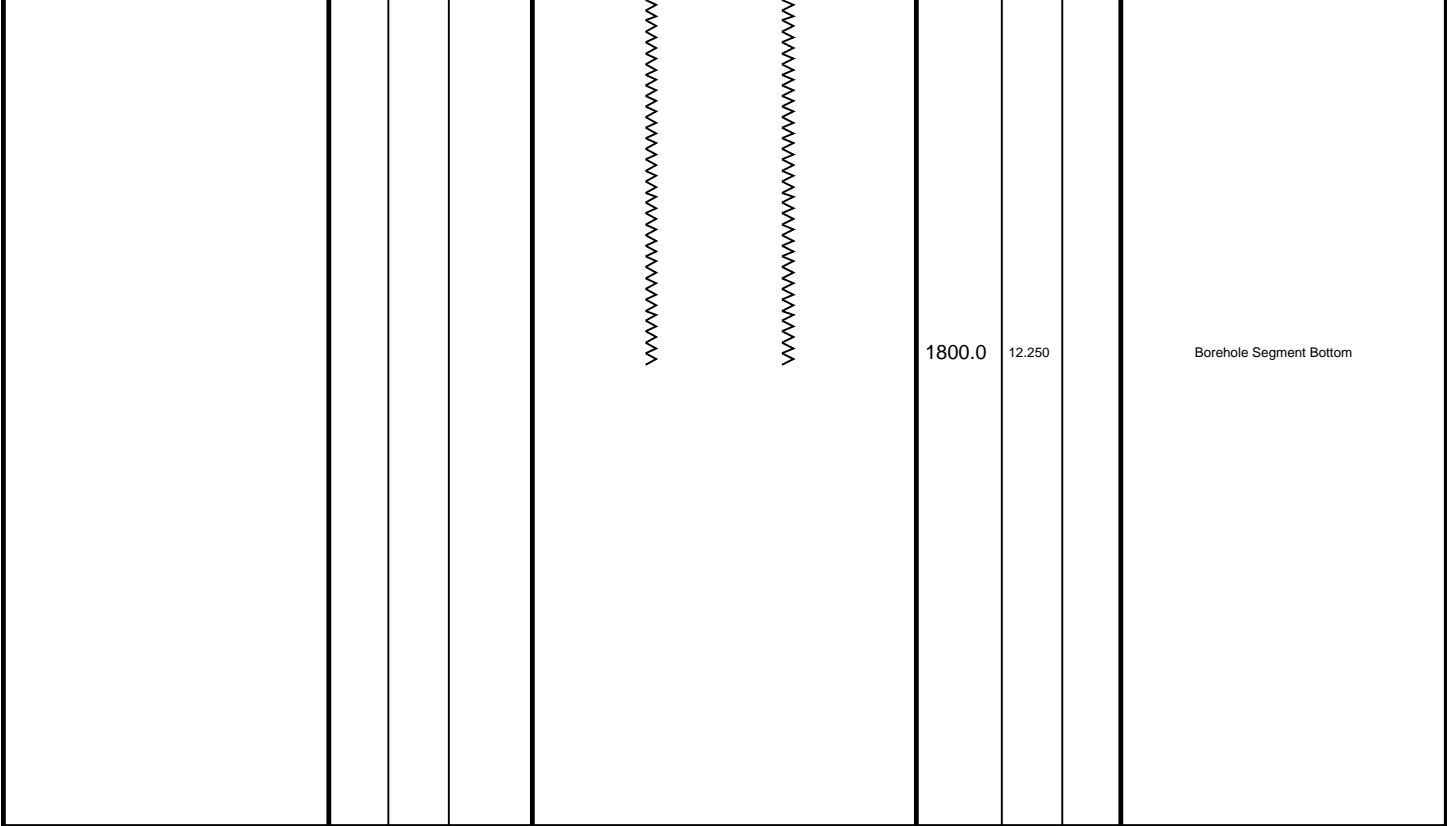
2.13

0.00

0.14

MAXIMUM STRING DIAMETER 8.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Production String	(in)			Well Schematic	(m)			Casing String
	OD	ID	MD		MD	OD	ID	
RT			0.0		75.6	26.000		Borehole Segment
MSL			26.0		157.0	13.375		Casing String
					159.0	20.000		Casing Shoe
						17.500		Borehole Segment
					735.0	13.375		Casing Shoe
					745.0	12.250		Borehole Segment



ALL DEPTHS ARE DRILLERS DEPTHS



Main Pass
1:200

MAXIS Field Log

Company: Tap Oil Limited Well: Craigow-1

Input DLIS Files					
DEFAULT	CAL_MAXS_MAPC_HRLA_082PUP	FN:97	PRODUCER	02-Jan-2011 22:22	1764.9 M 715.8 M

Integrated Hole/Cement Volume Summary

Hole Volume = 82.97 m3
Cement Volume = 82.97 m3 (assuming 0.00 in casing O.D.)
Computed from 1763.7 m to 716.0 m

OP System Version: 18C0-147

PIP SUMMARY

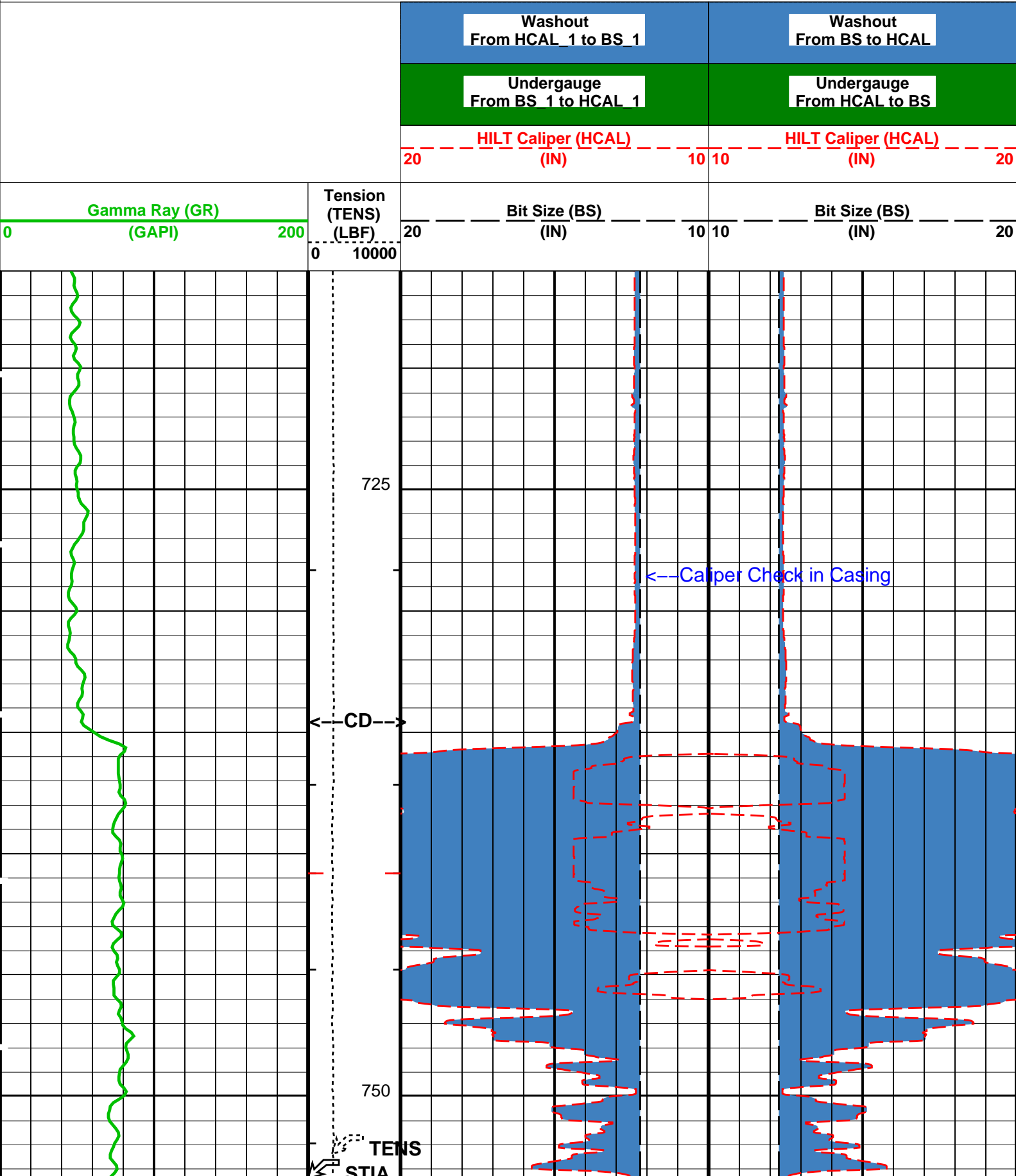
└ Integrated Hole Volume Minor Pip Every 1 M3

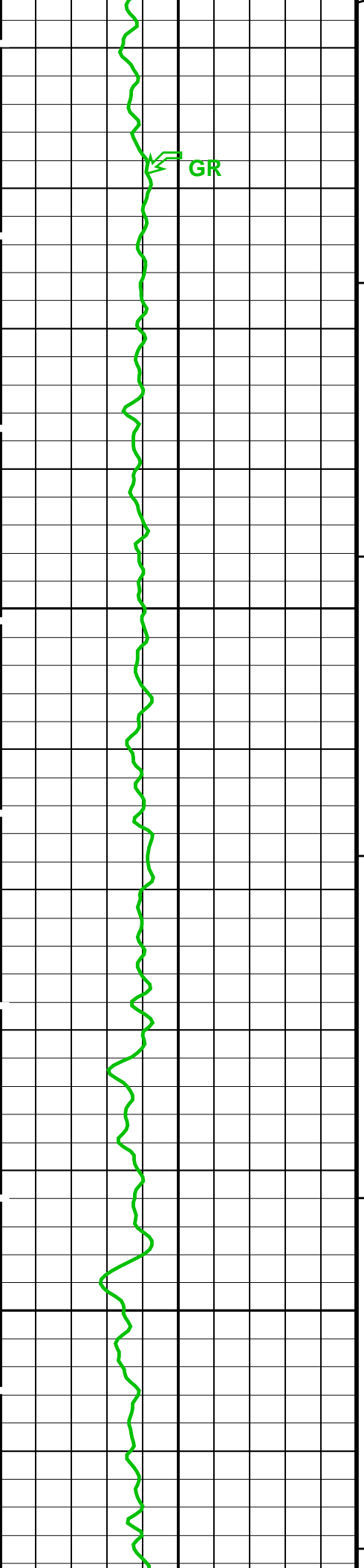
└ Integrated Hole Volume Major Pip Every 10 M3

└ Integrated Cement Volume Minor Pip Every 1 M3

└ Integrated Cement Volume Major Pip Every 10 M3

Time Mark Every 60 S

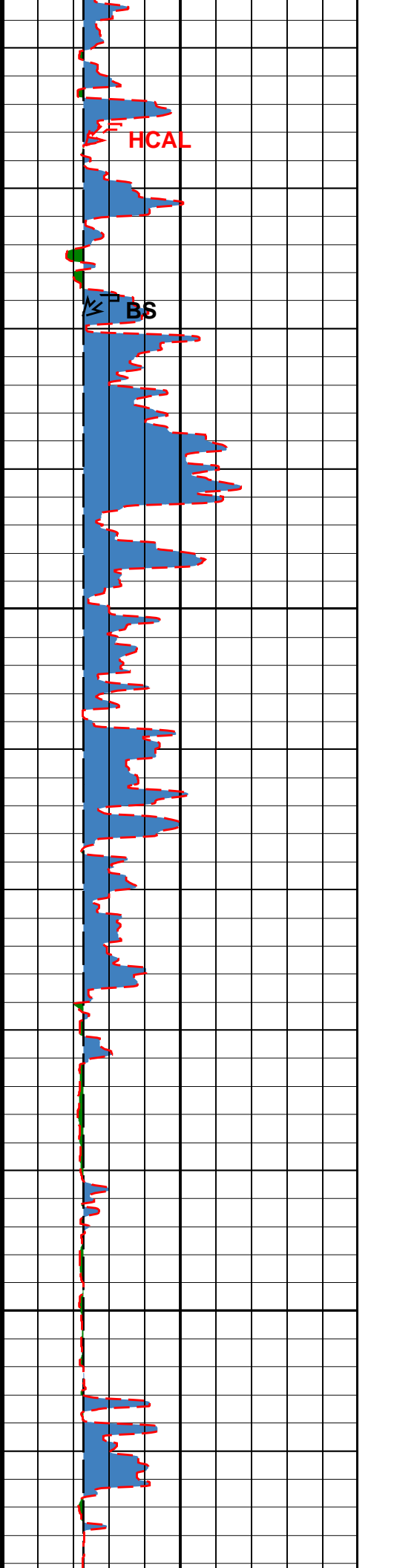
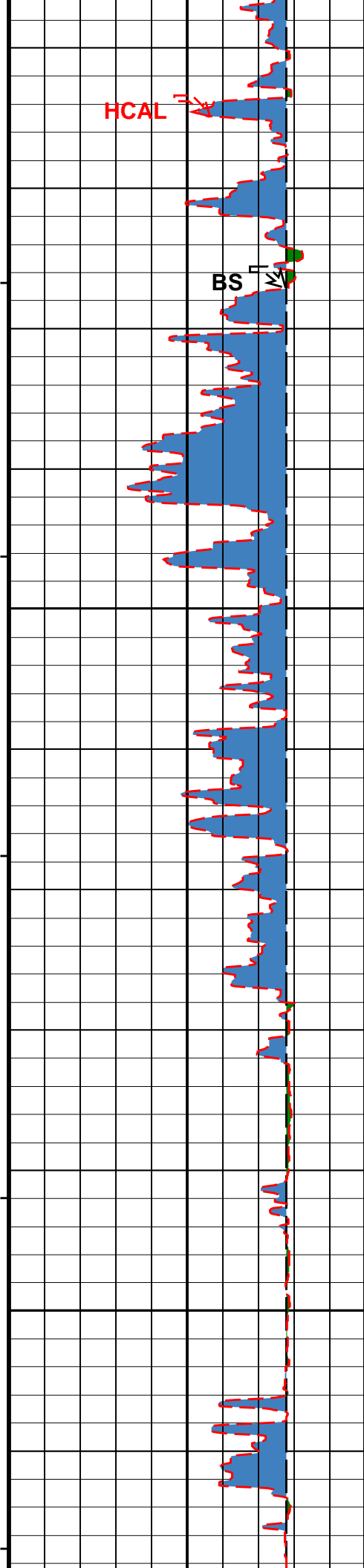


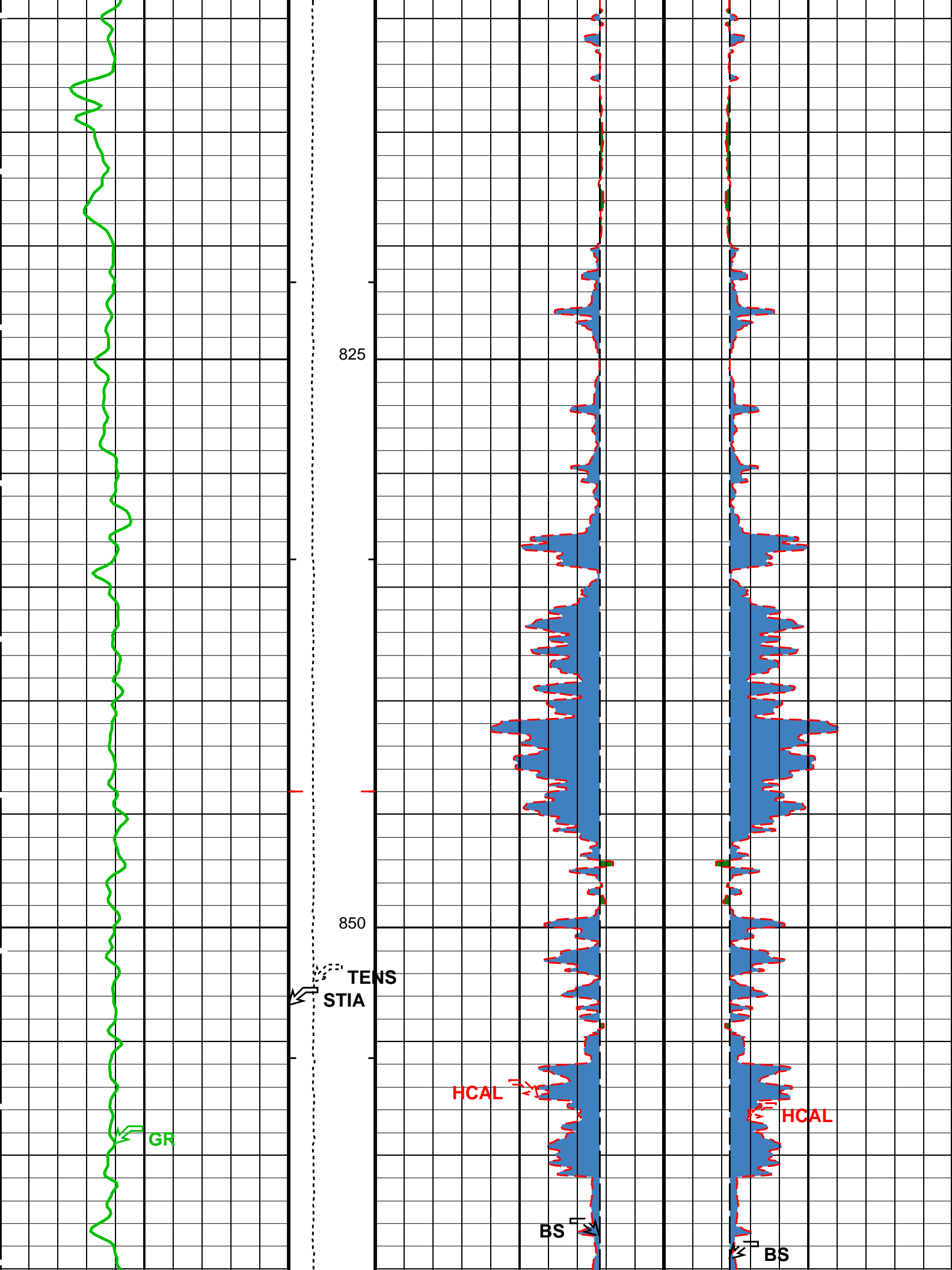


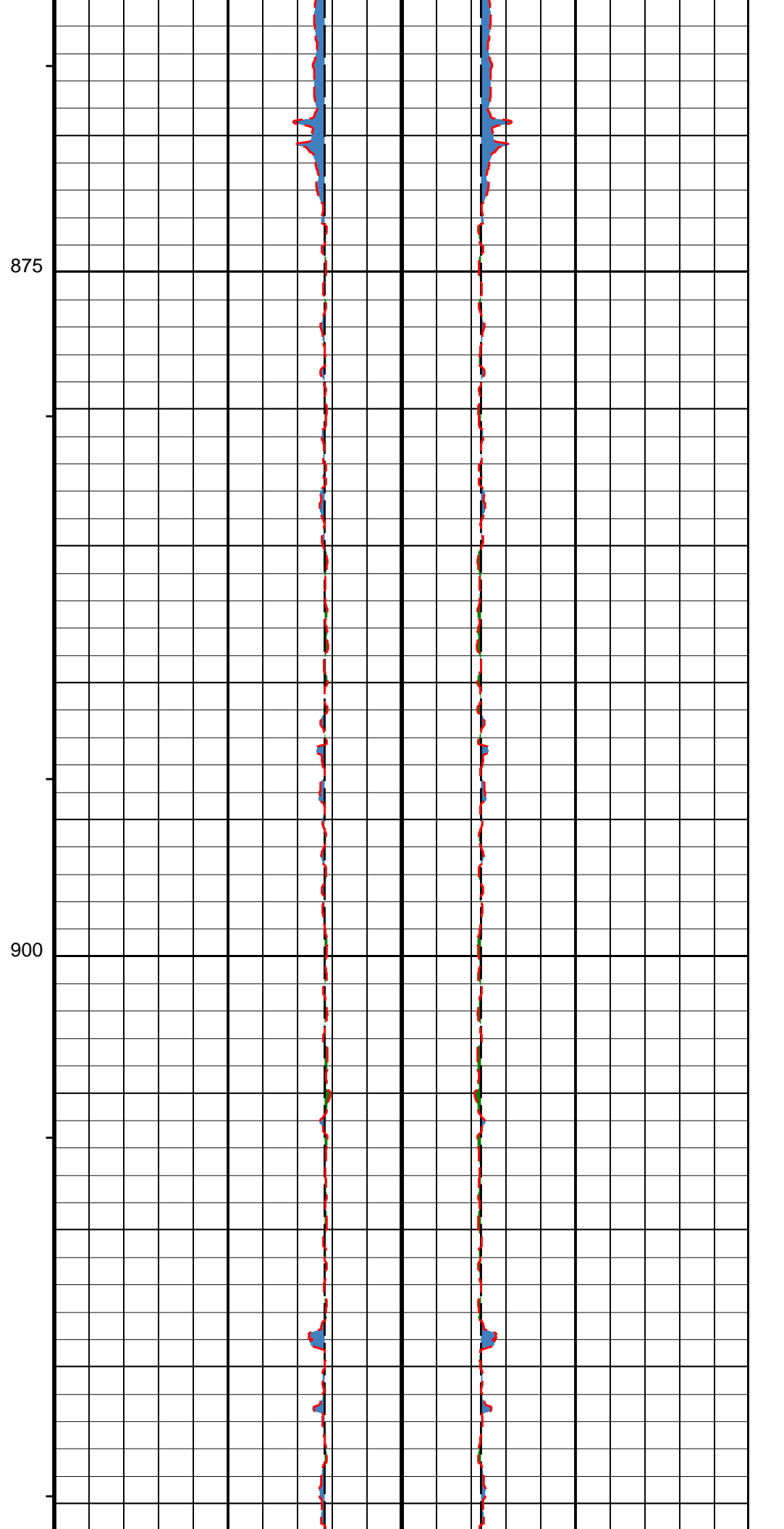
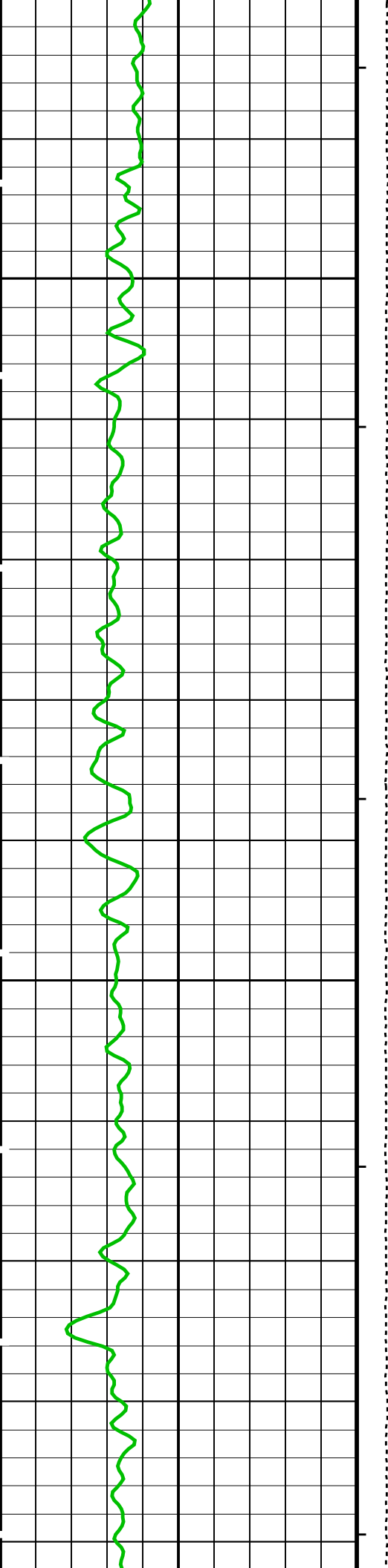
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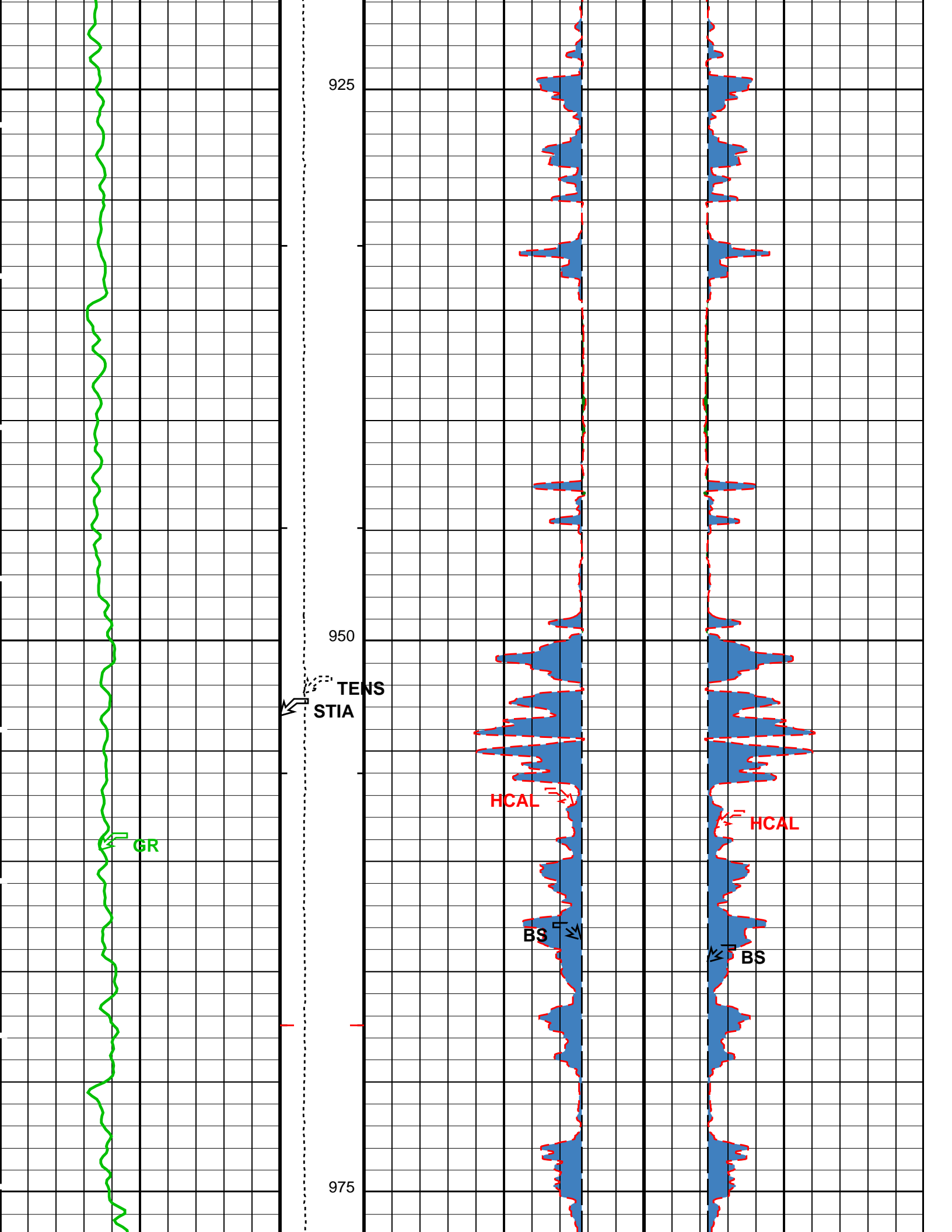
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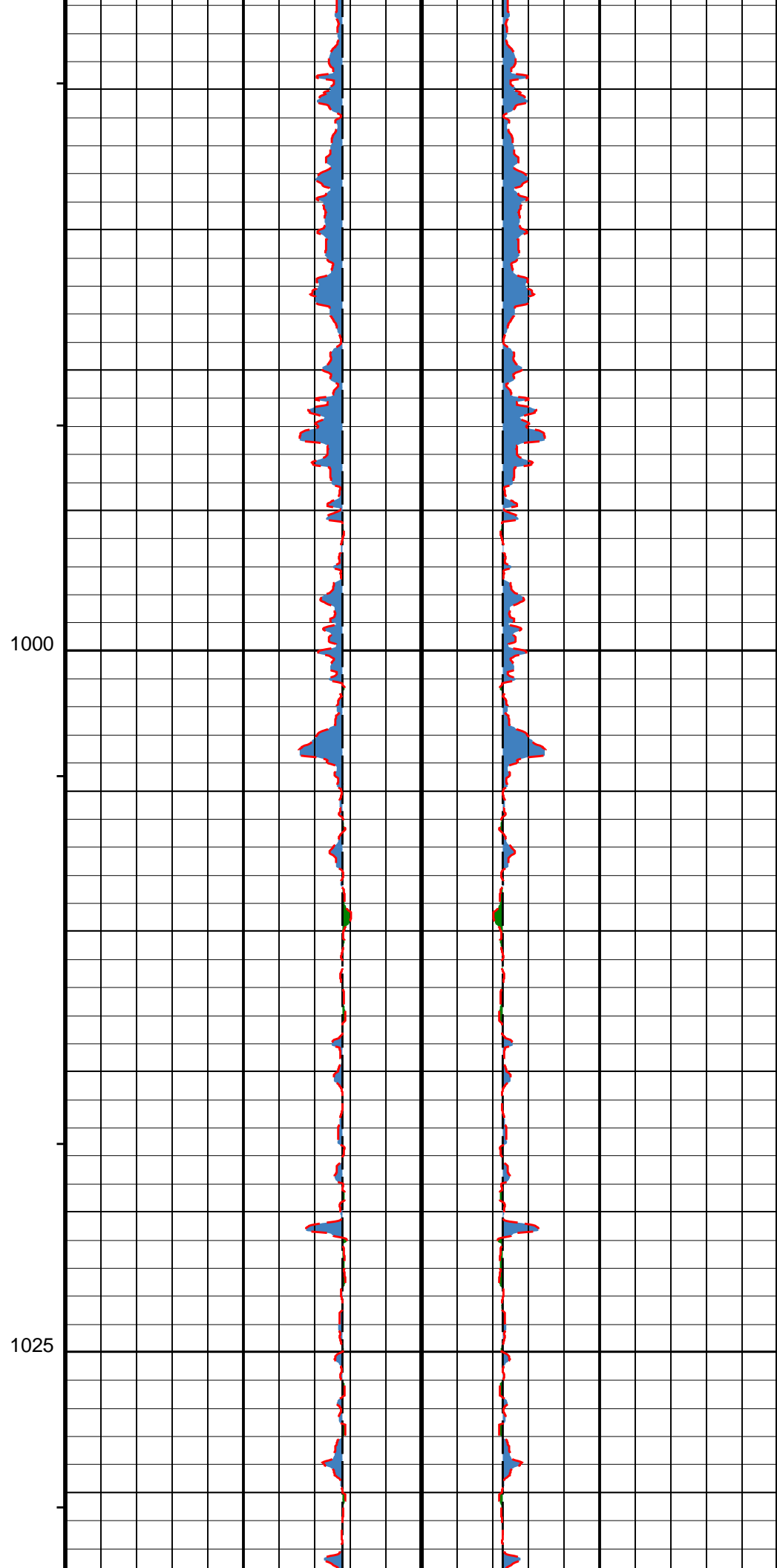
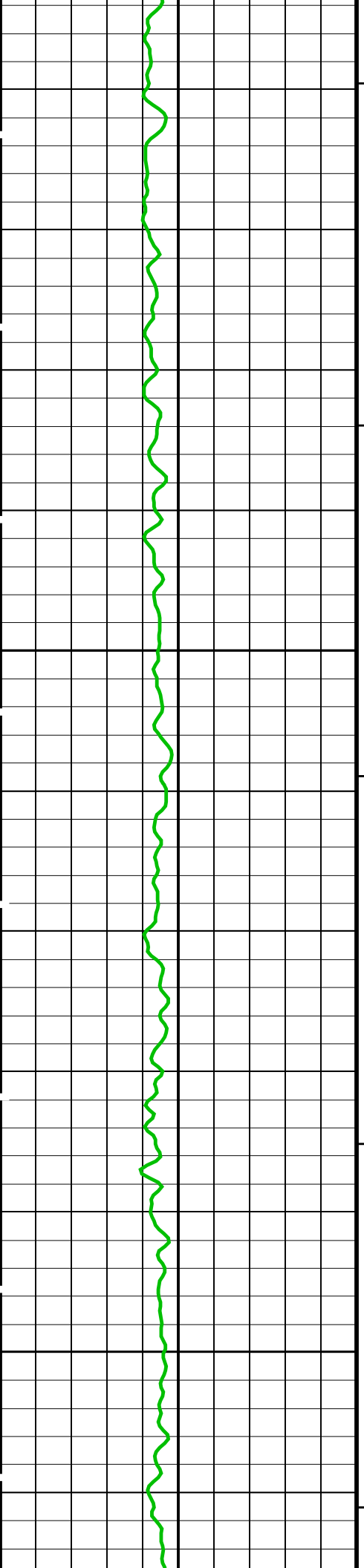
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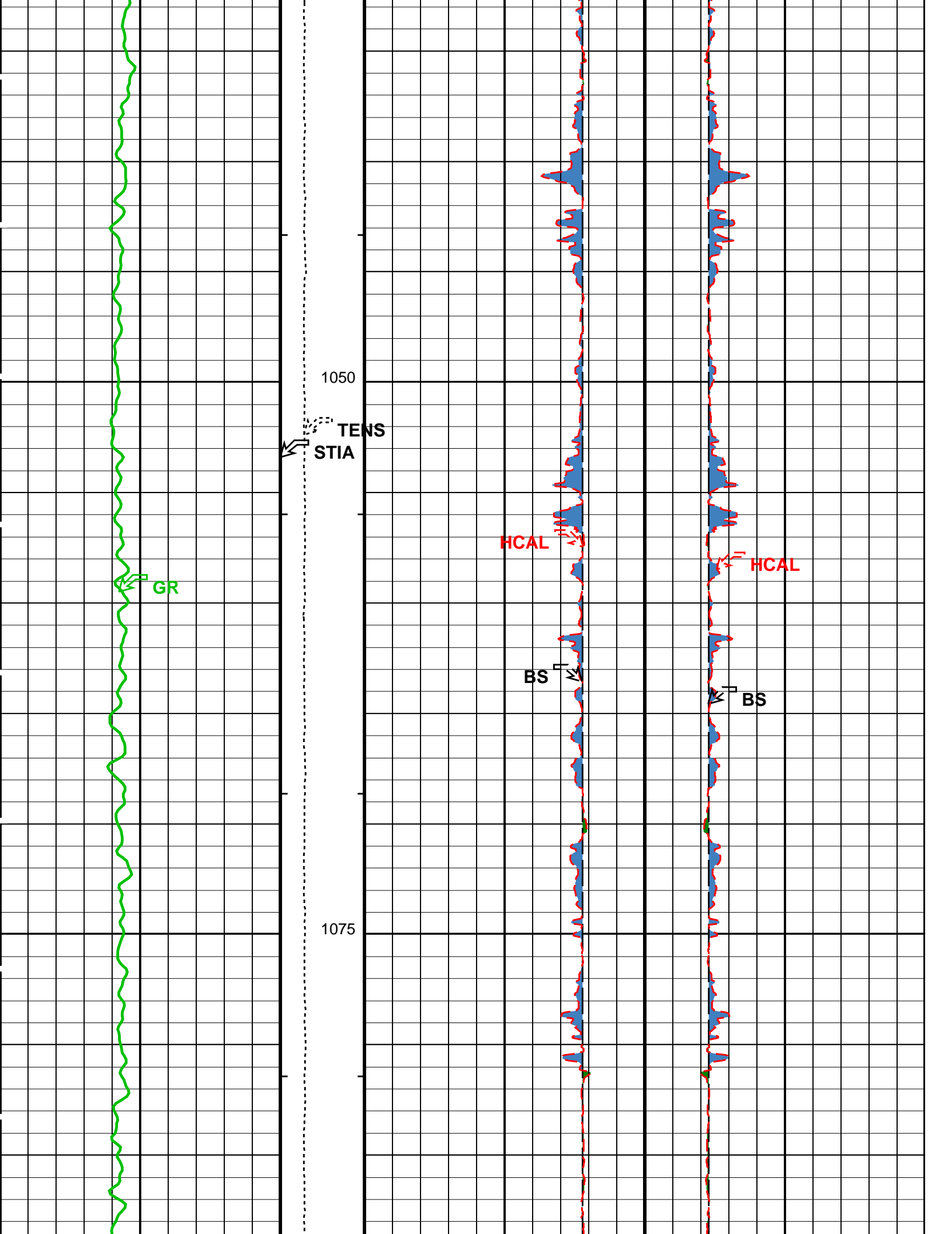


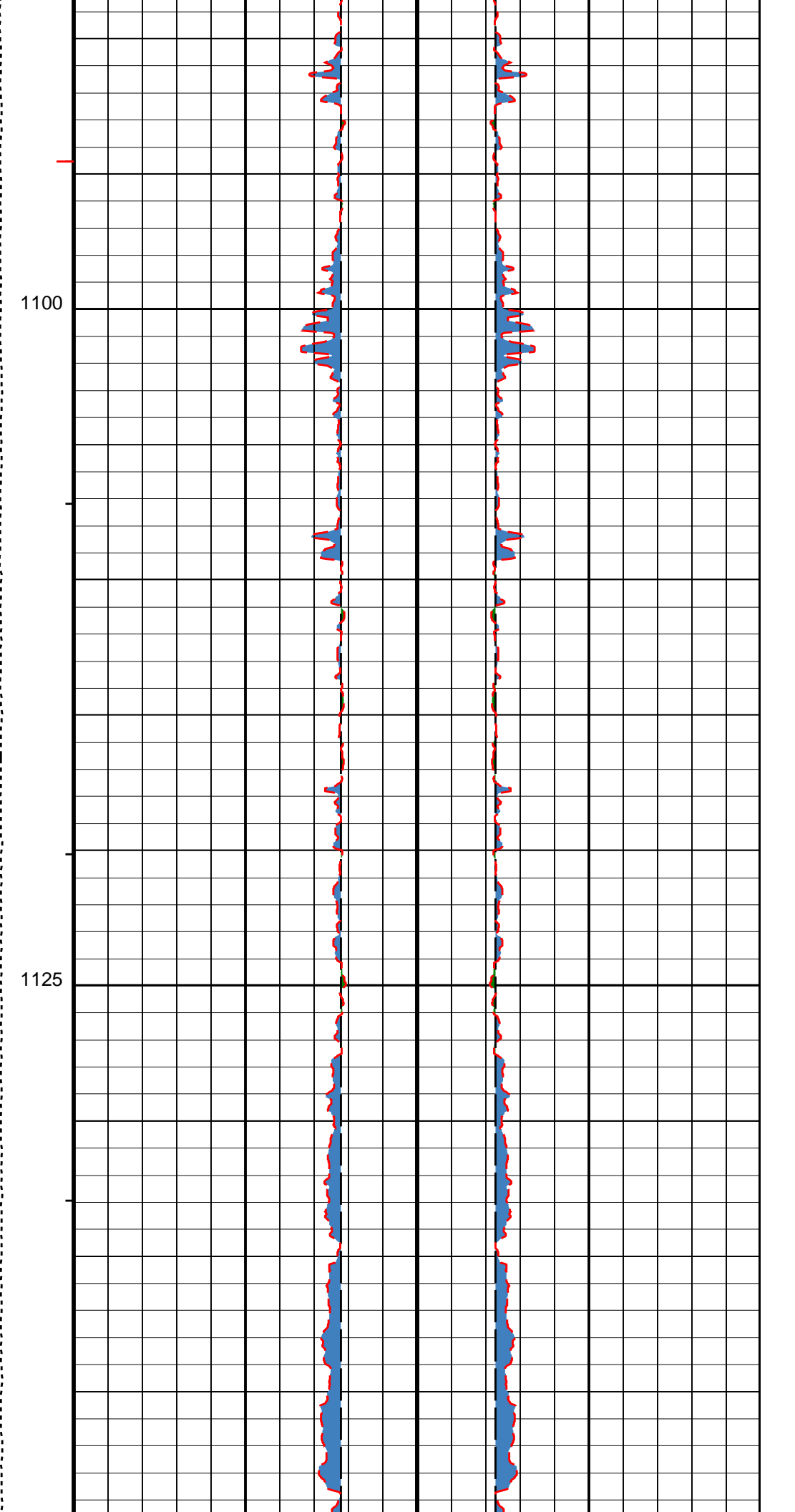
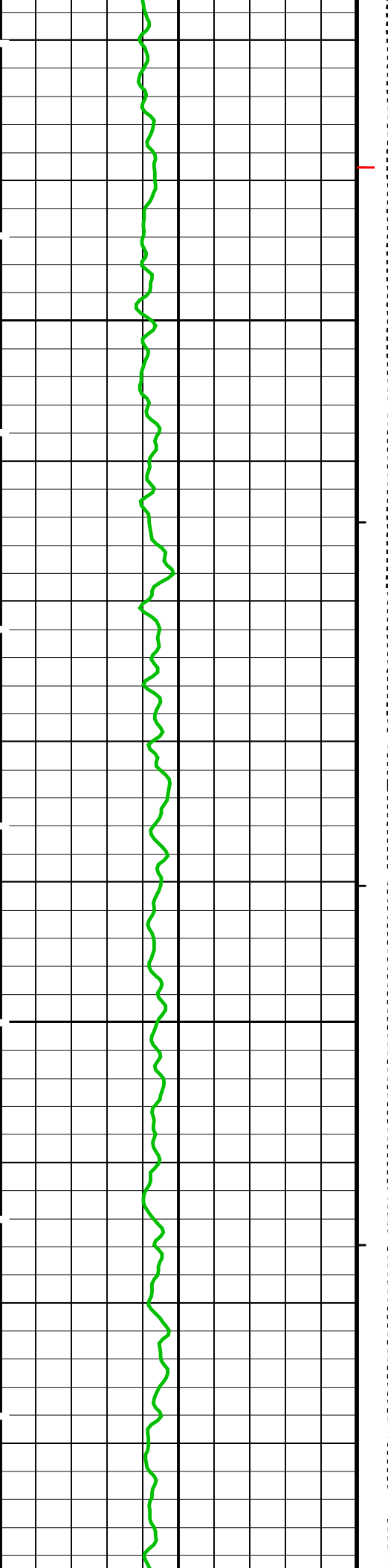


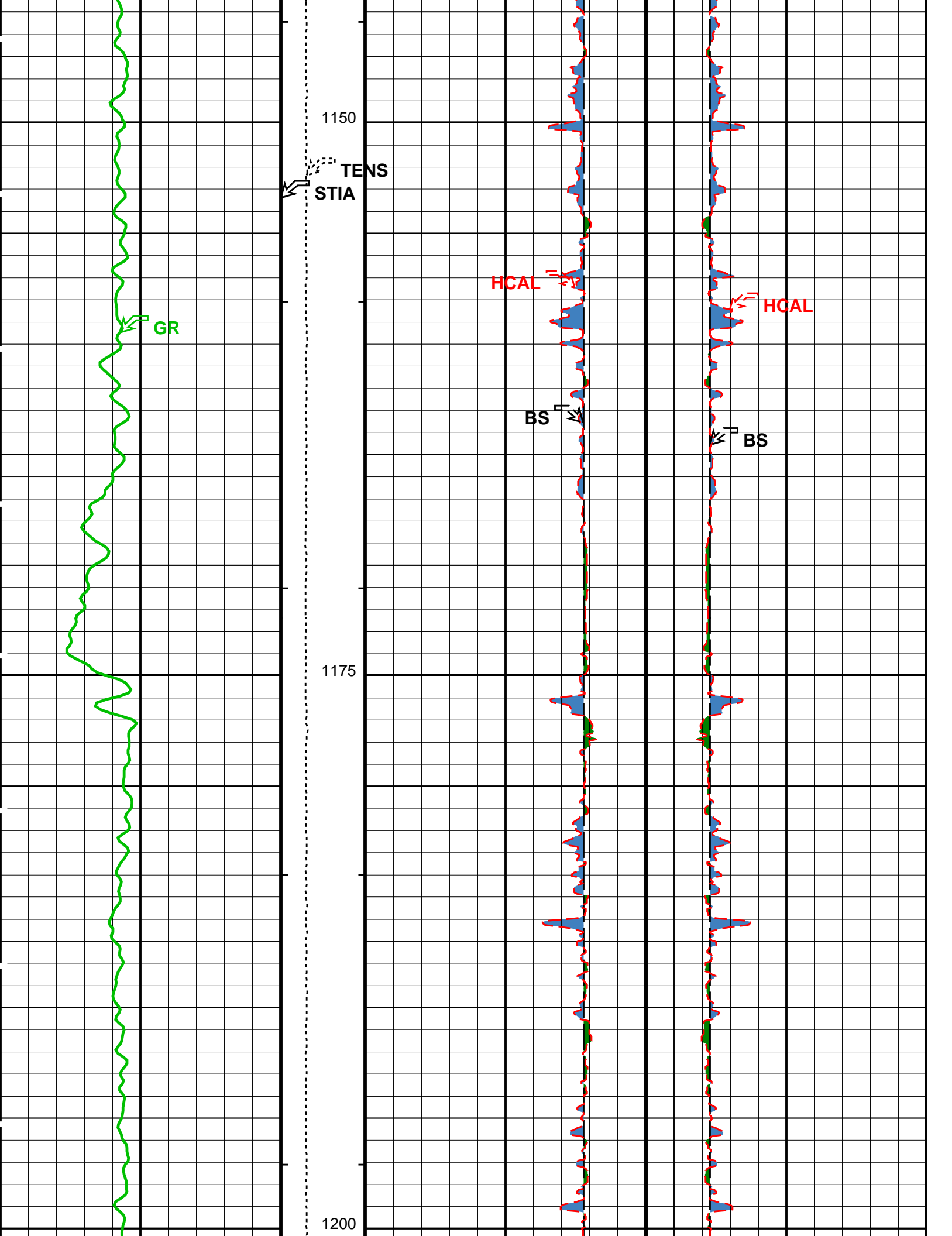


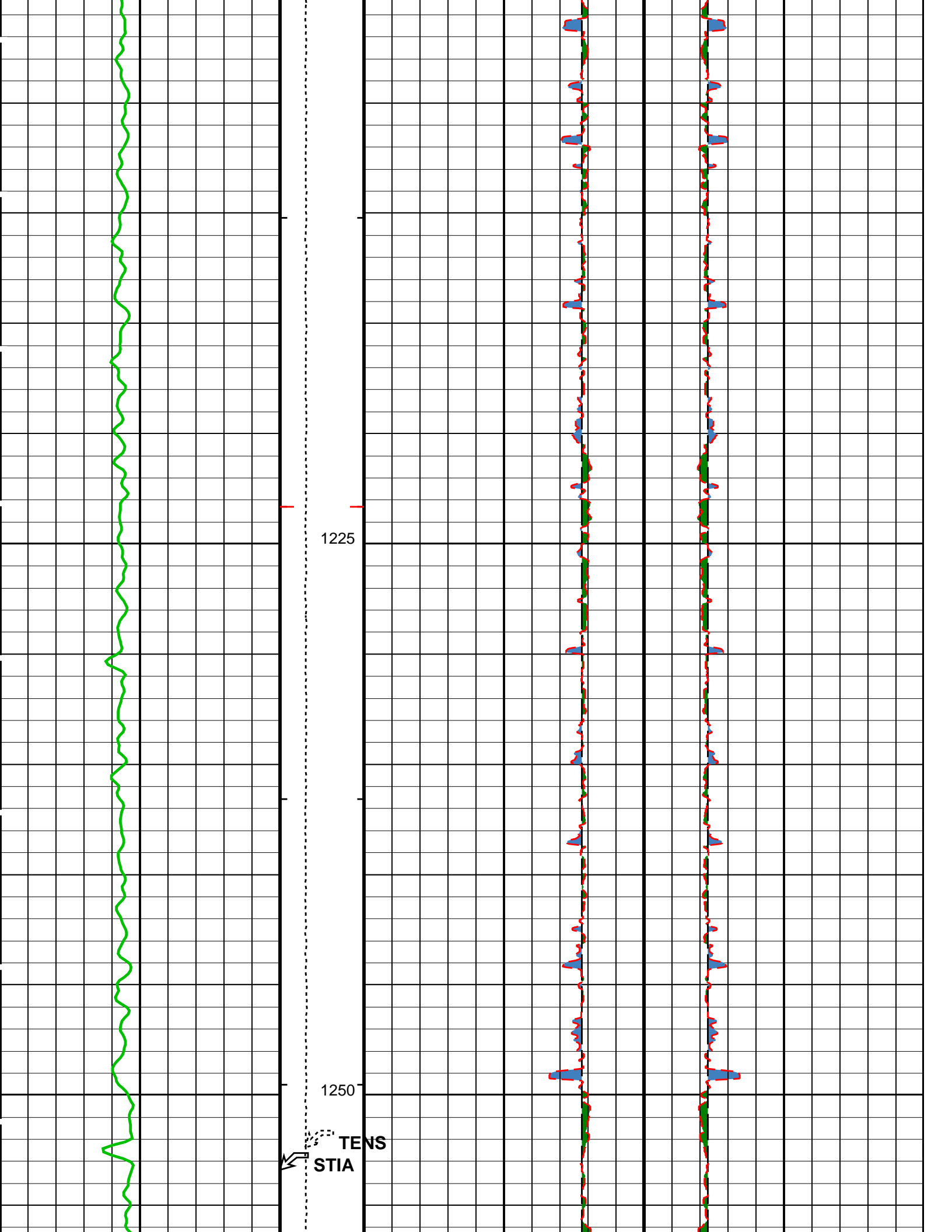


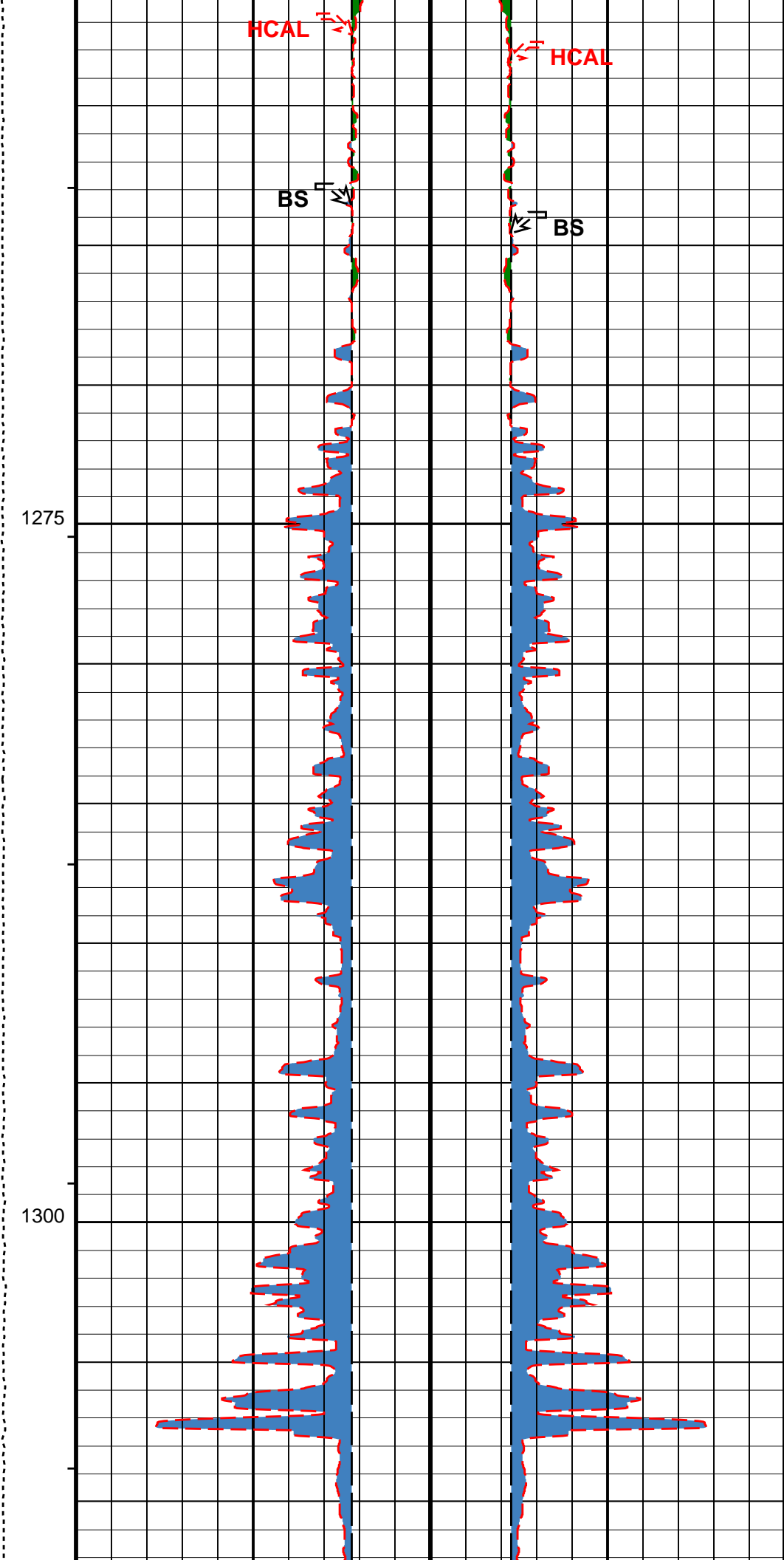
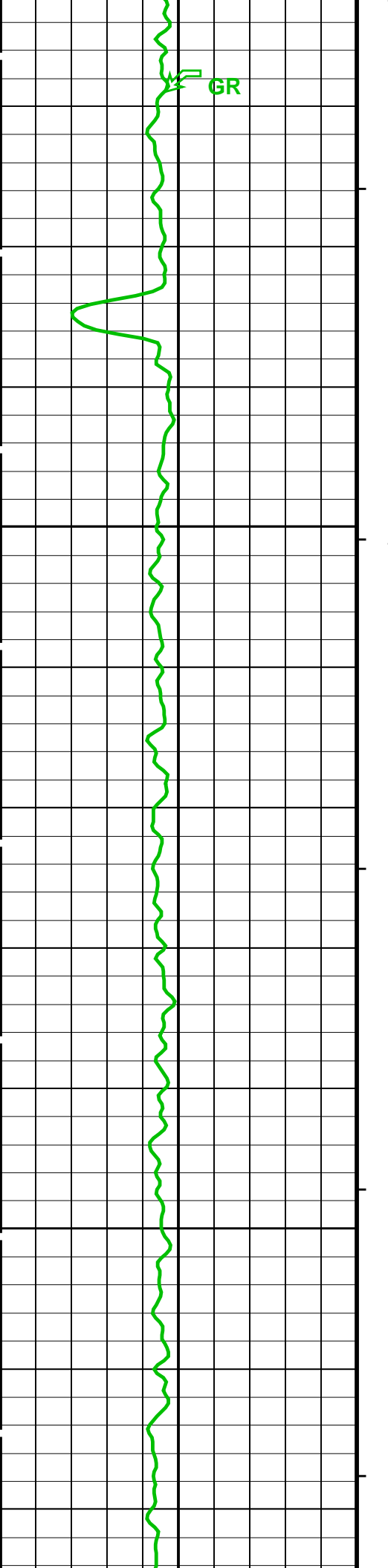


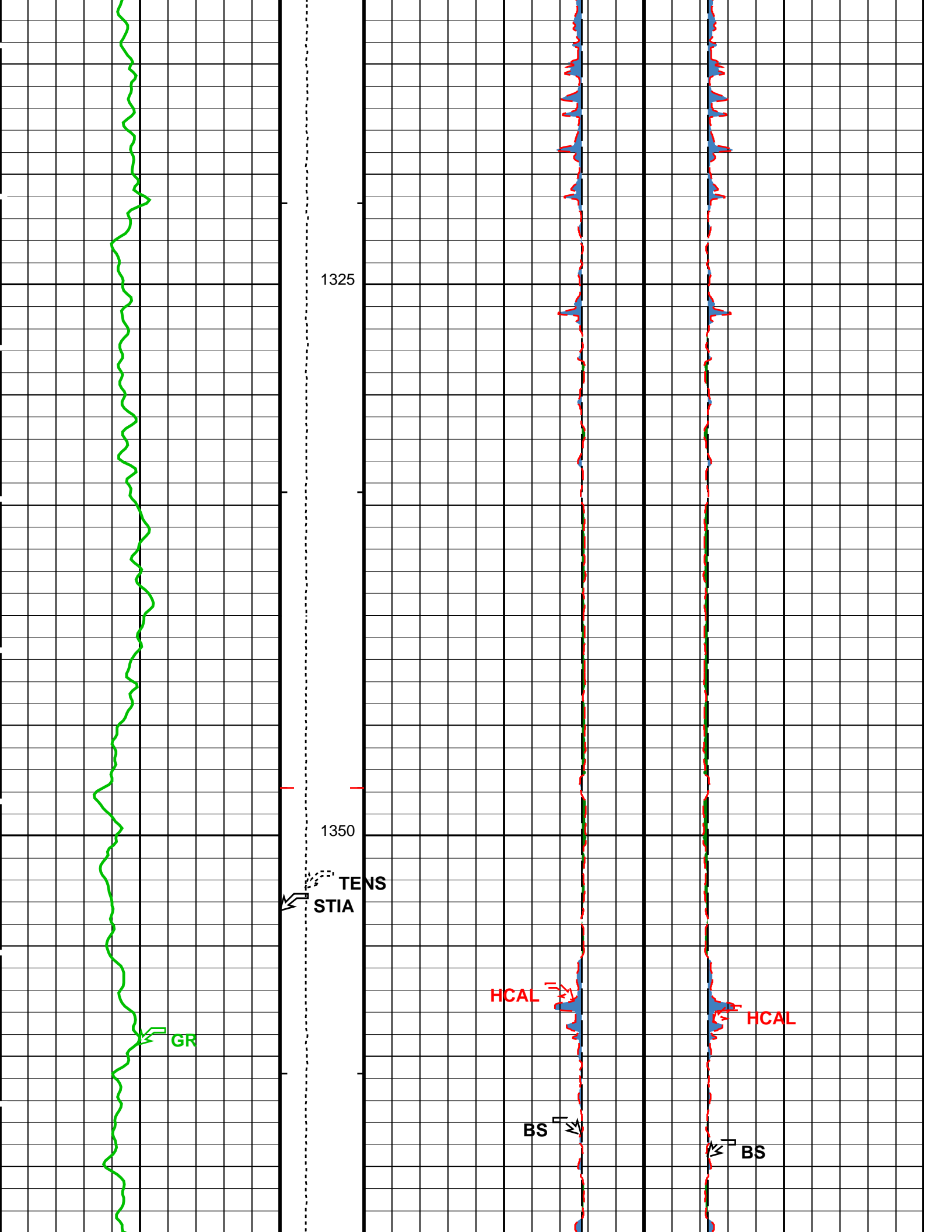


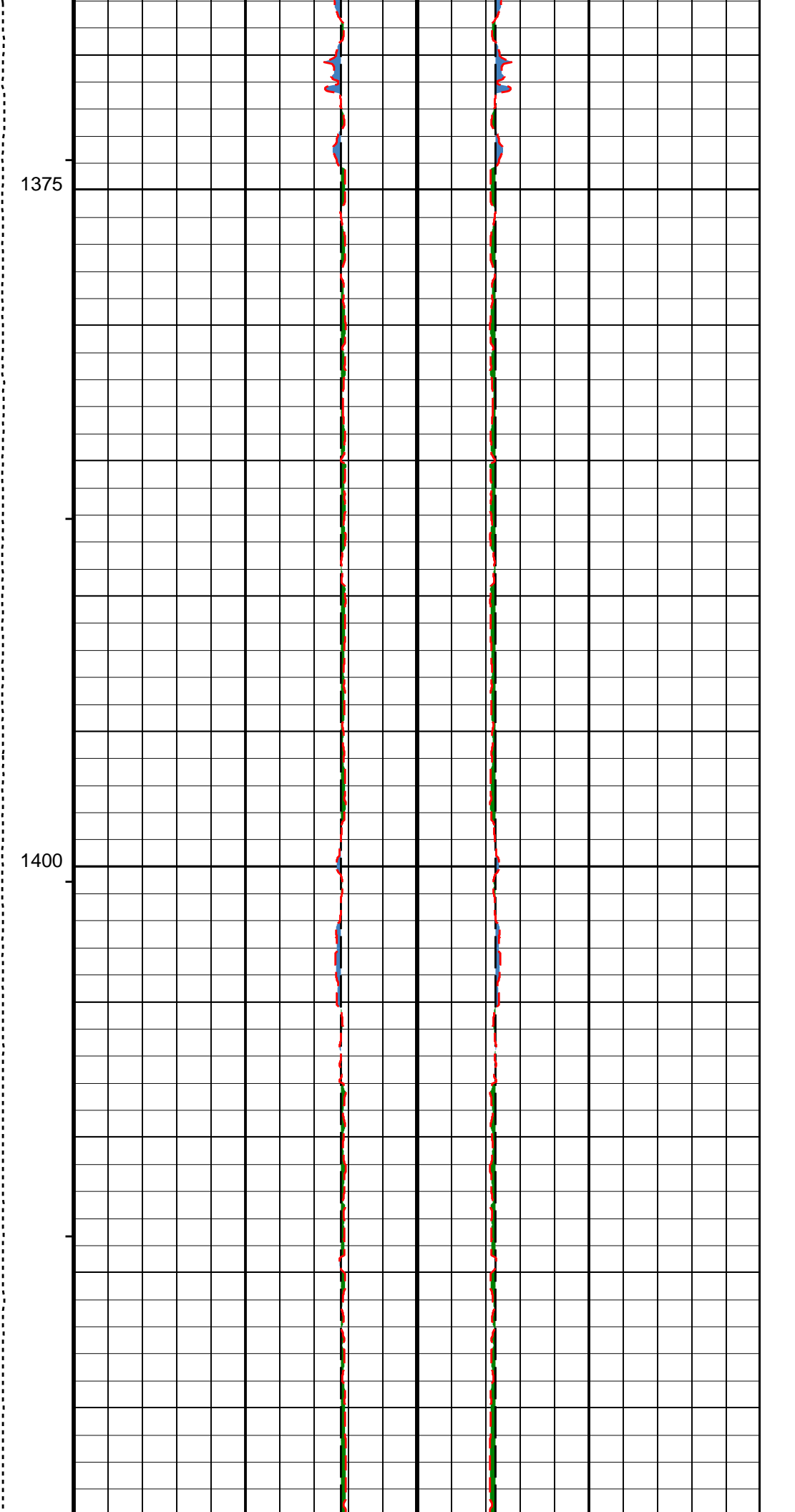
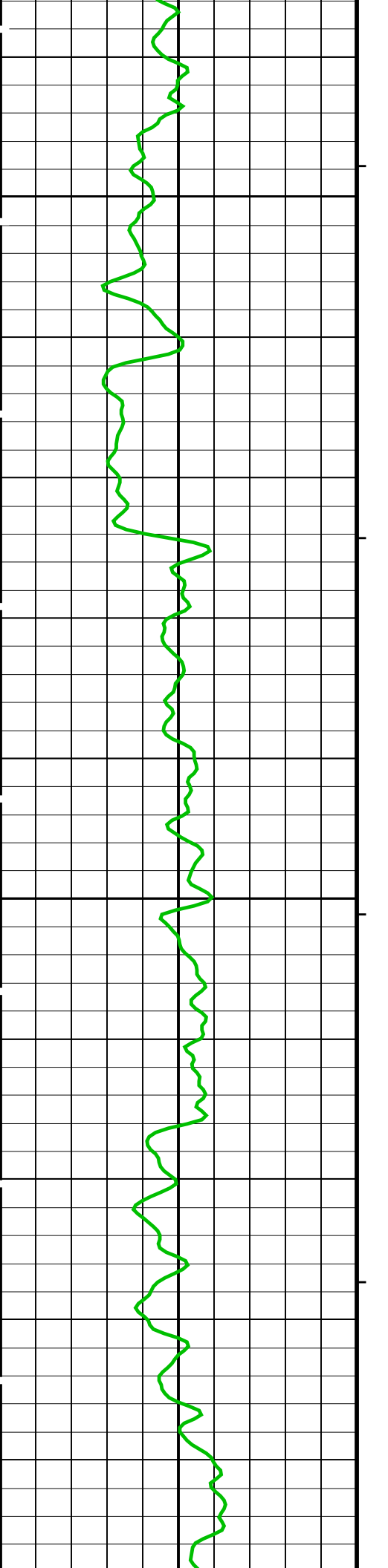


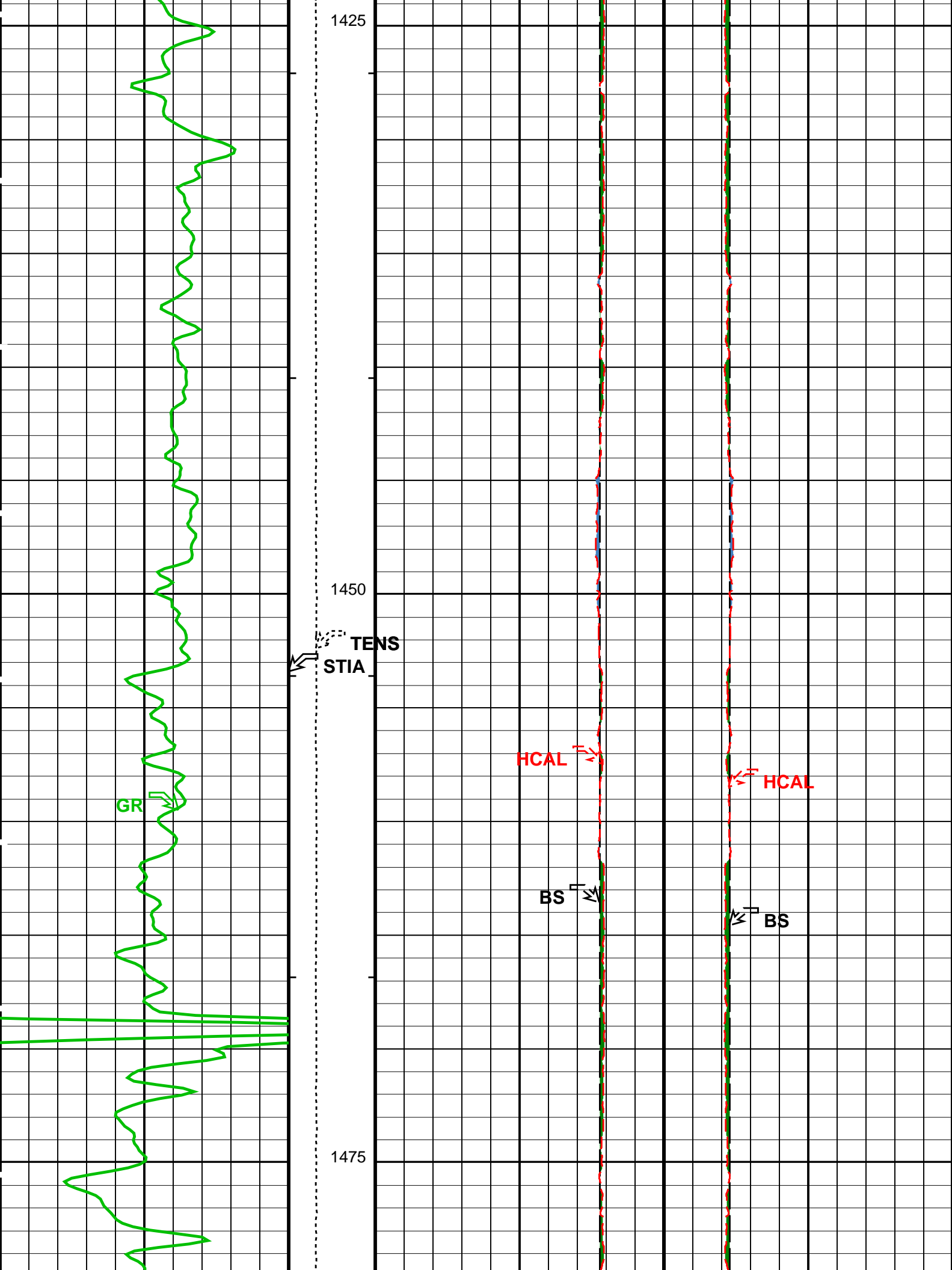


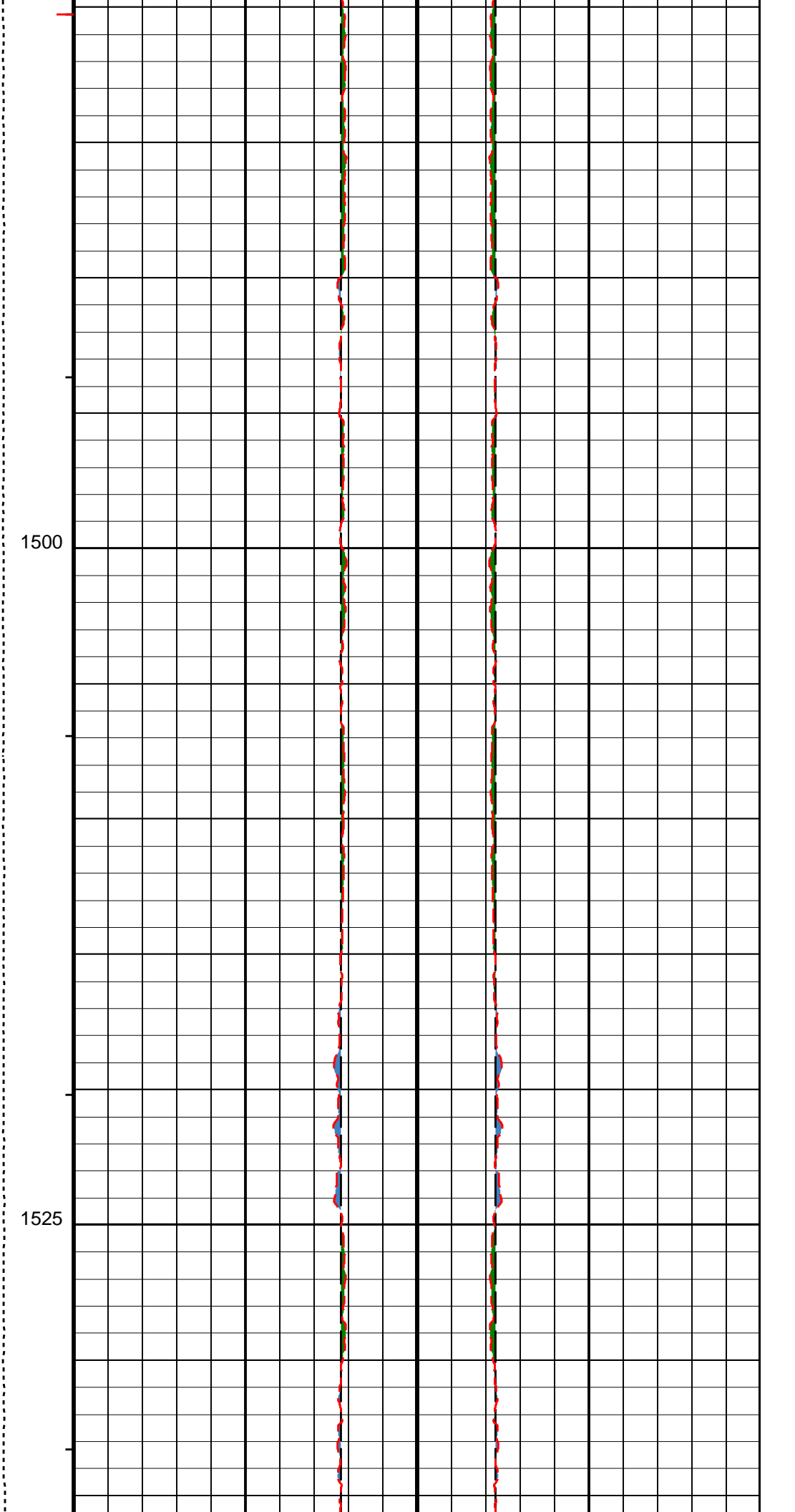
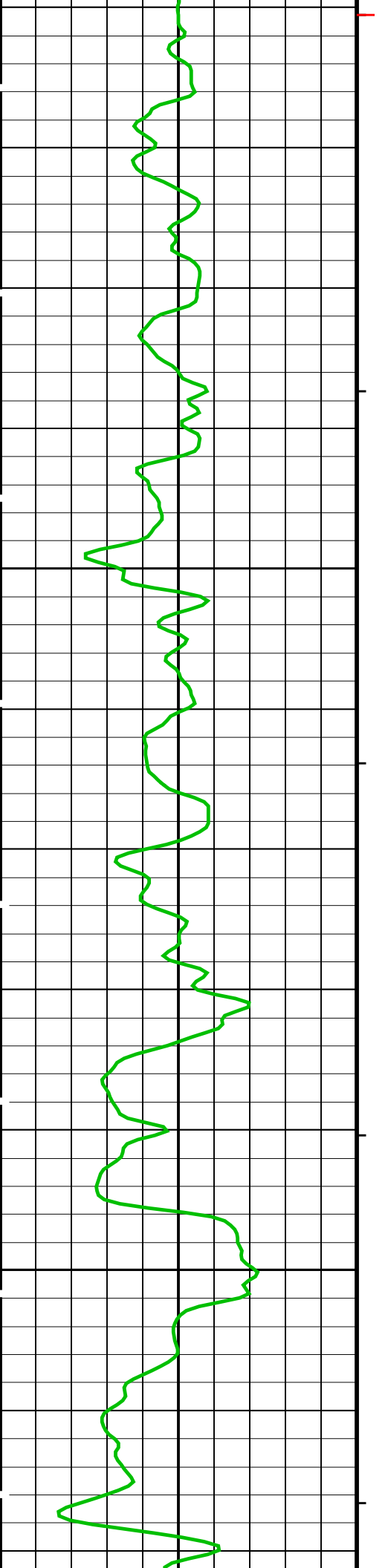


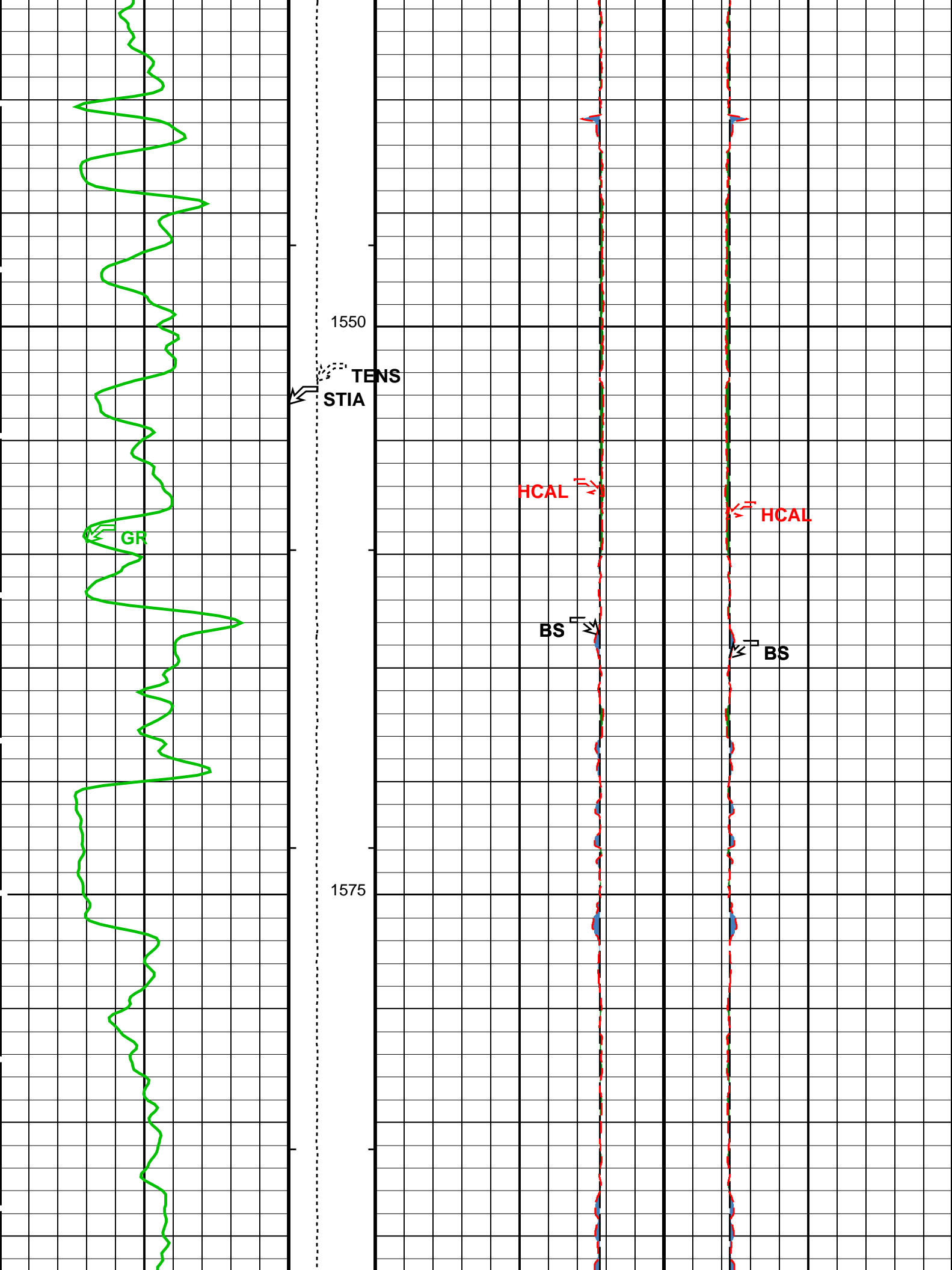


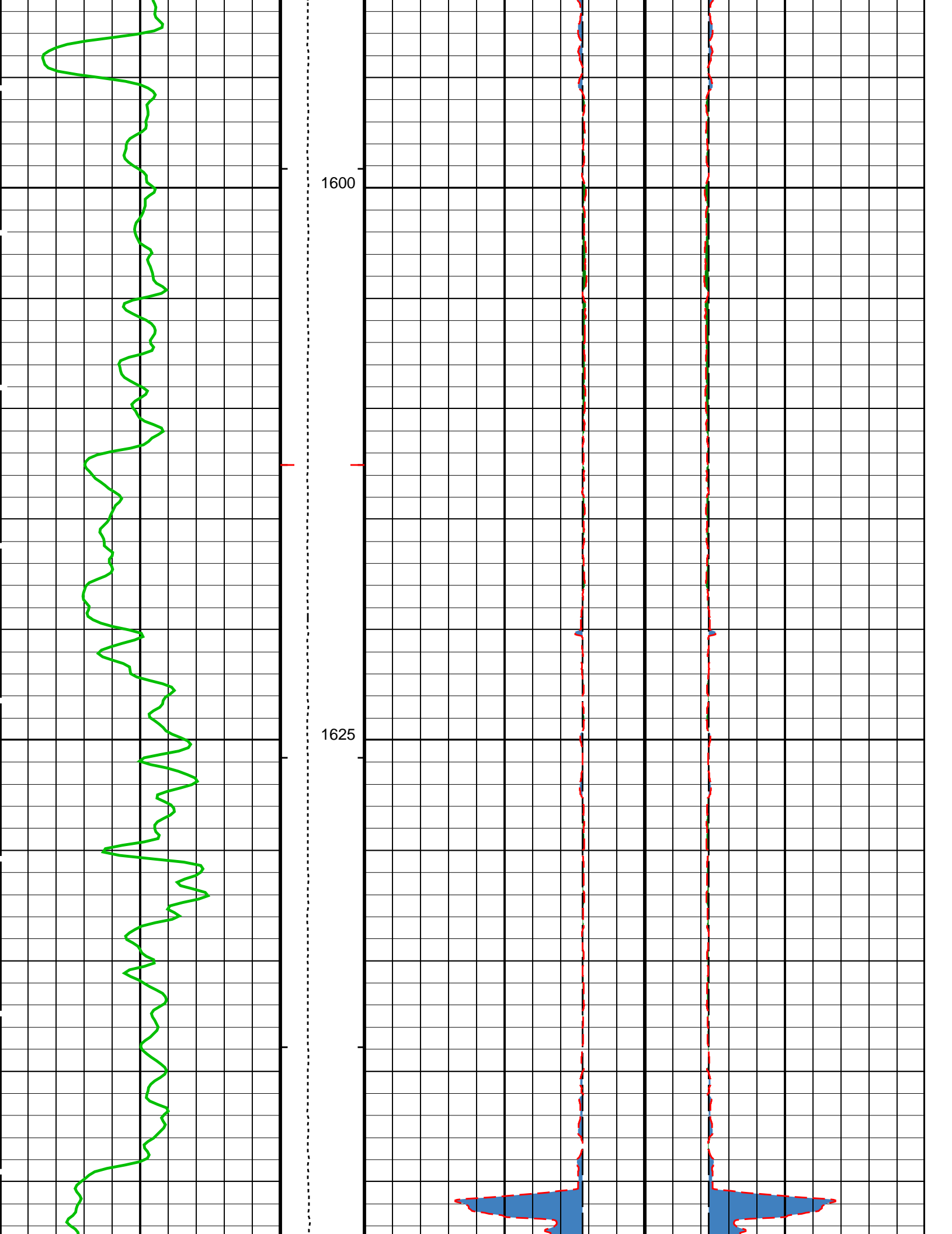


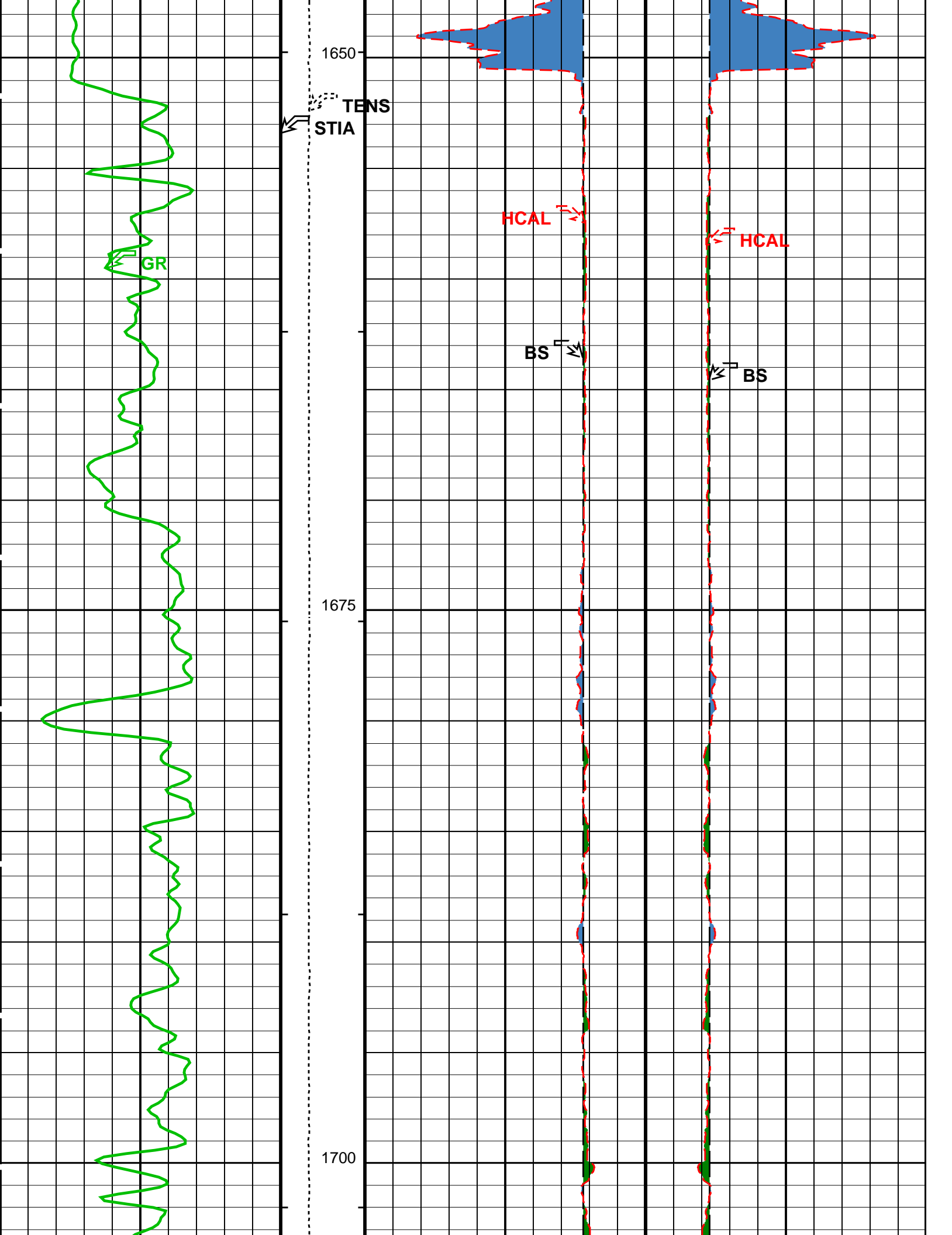


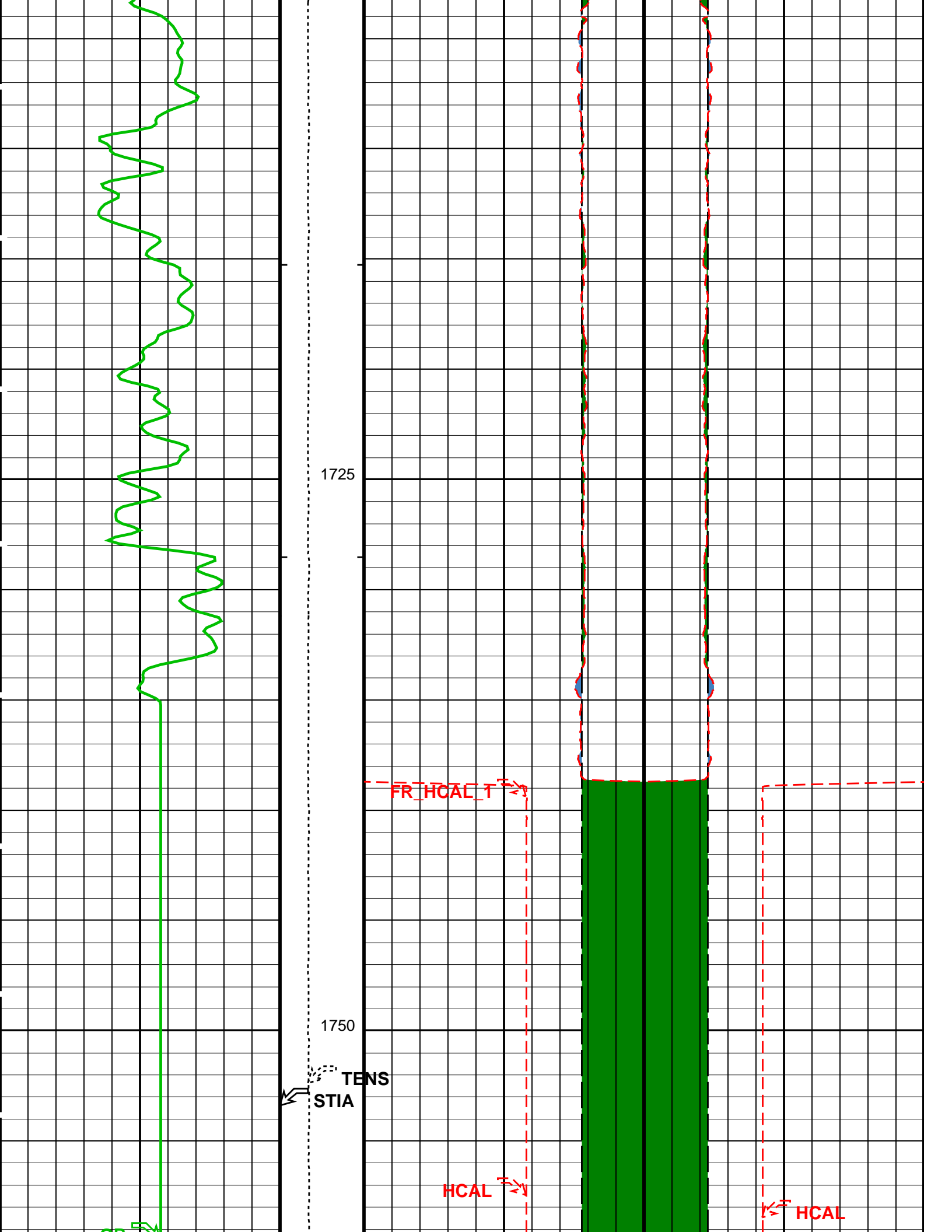


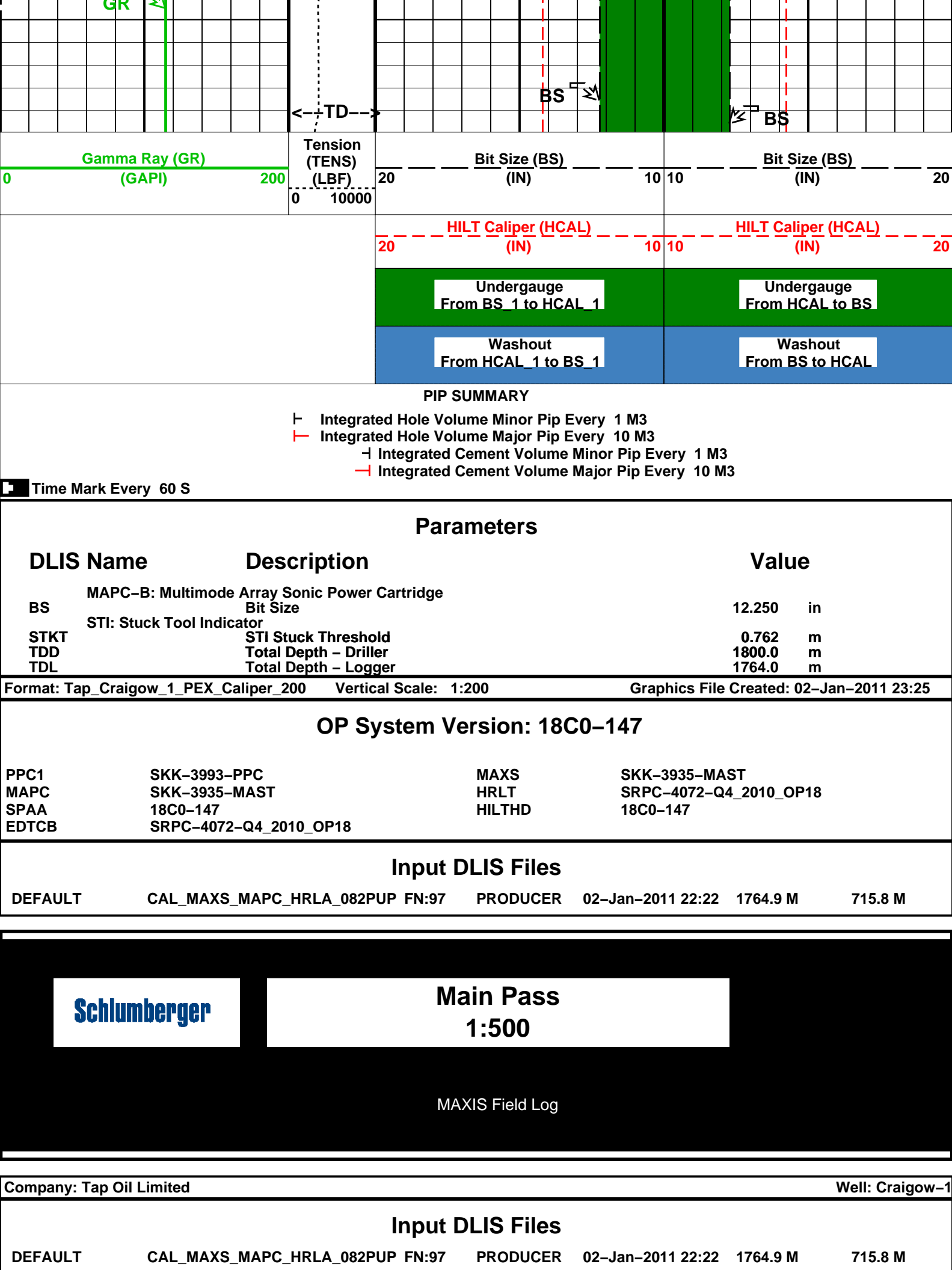












Integrated Hole/Cement Volume Summary

Hole Volume = 82.97 m3

Cement Volume = 82.97 m3 (assuming 0.00 in casing O.D.)

Computed from 1763.7 m to 716.0 m

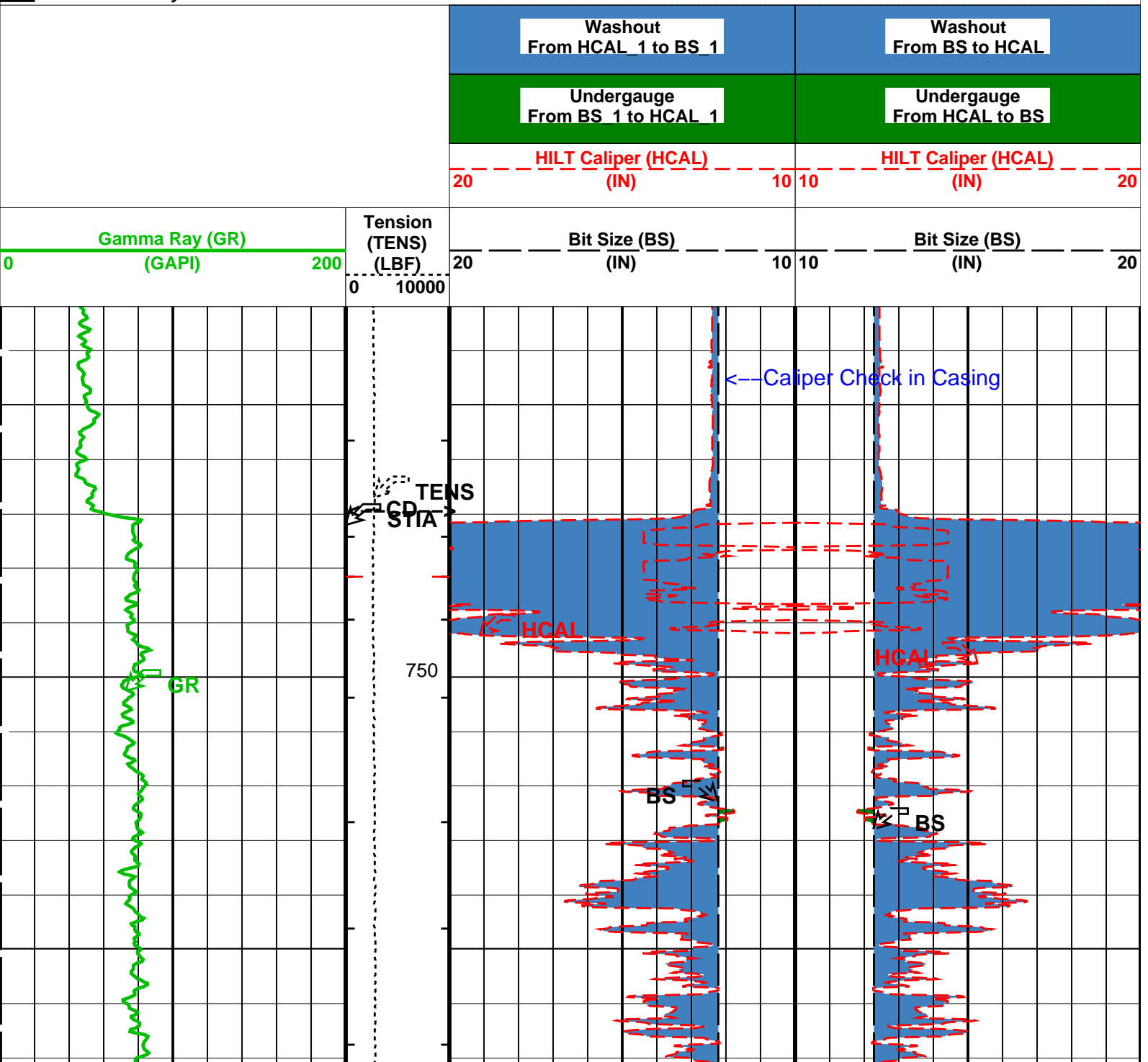
OP System Version: 18C0-147

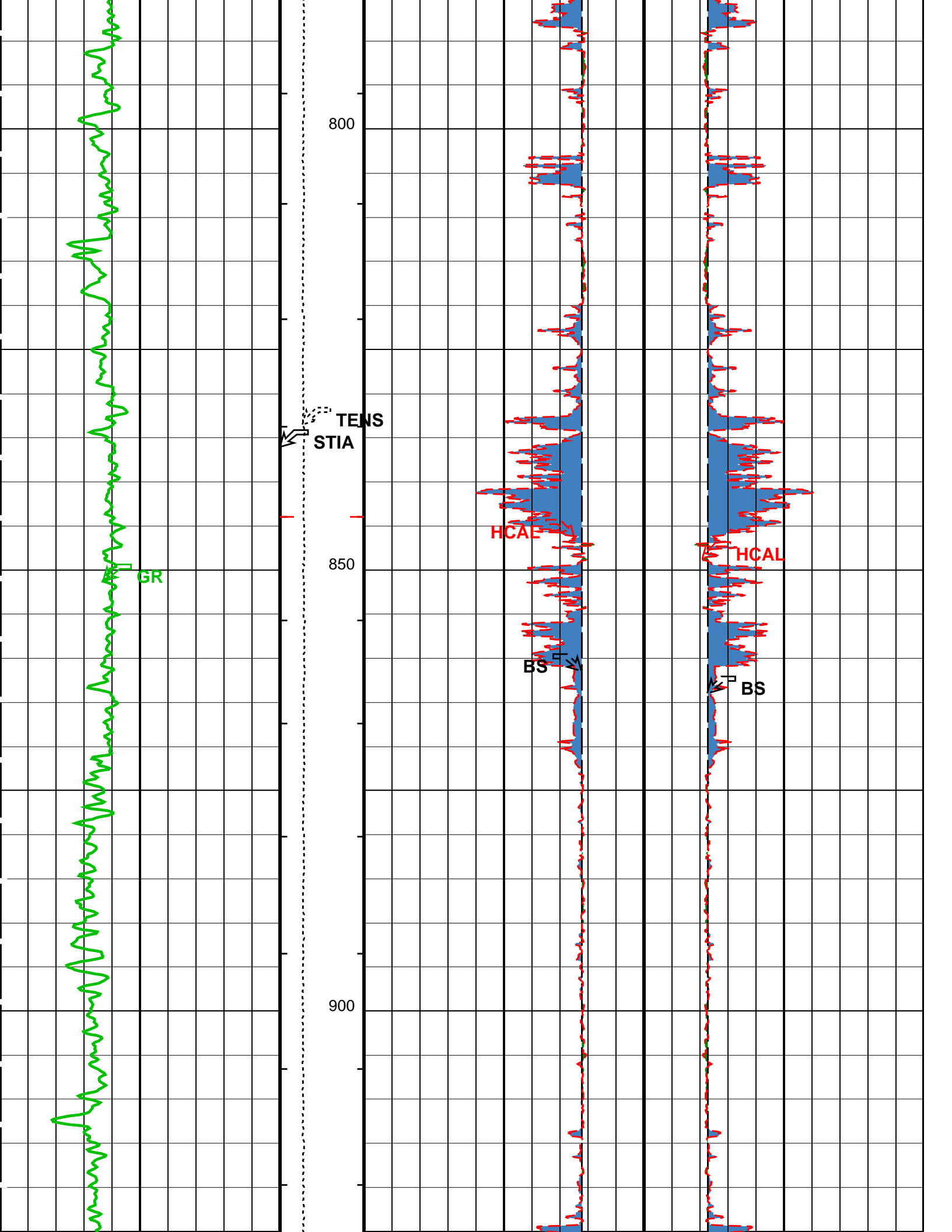
PPC1	SKK-3993-PPC	MAXS	SKK-3935-MAST
MAPC	SKK-3935-MAST	HRLT	SRPC-4072-Q4_2010_OP18
SPAA	18C0-147	HILTHD	18C0-147
EDTCB	SRPC-4072-Q4_2010_OP18		

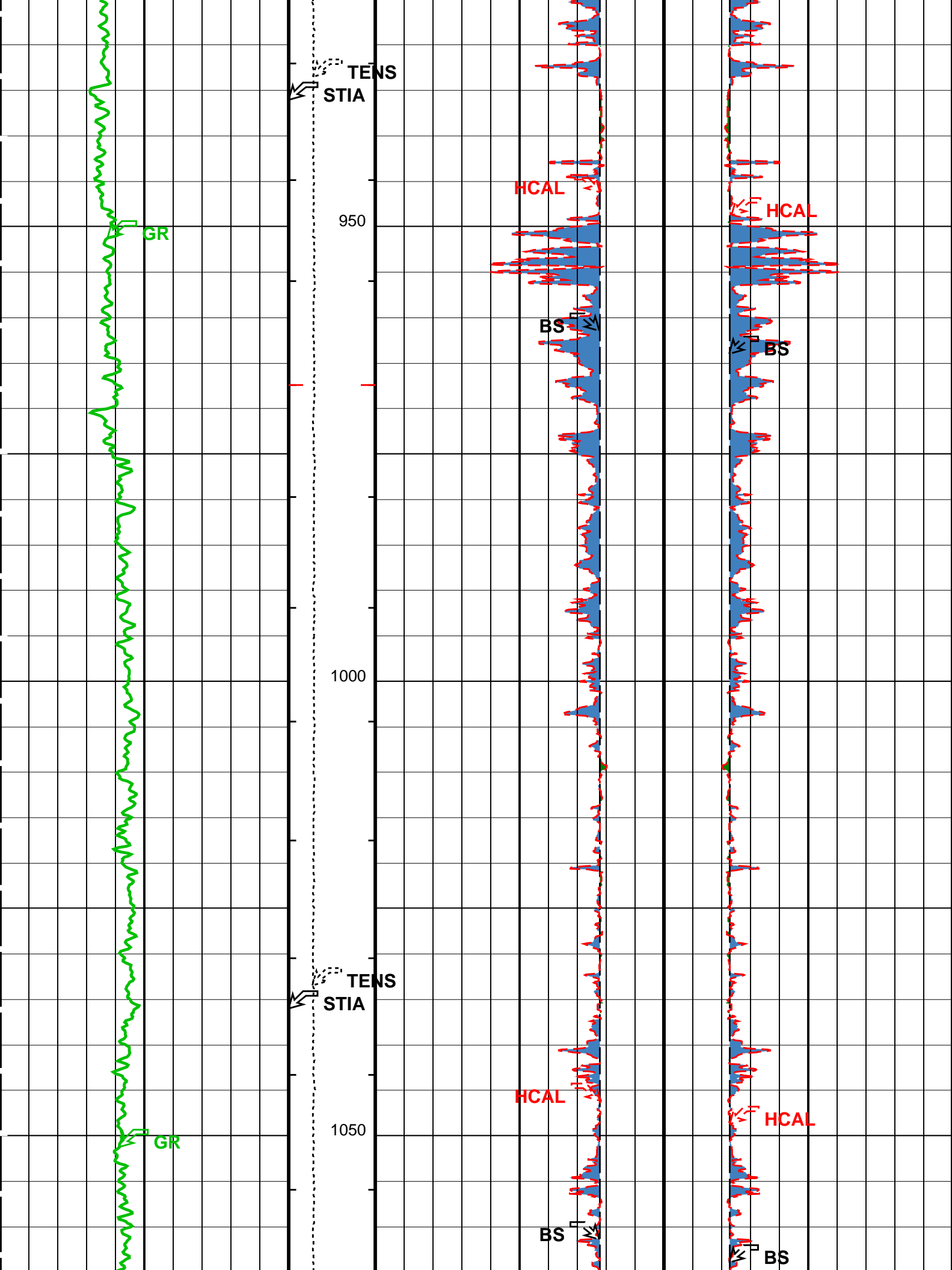
PIP SUMMARY

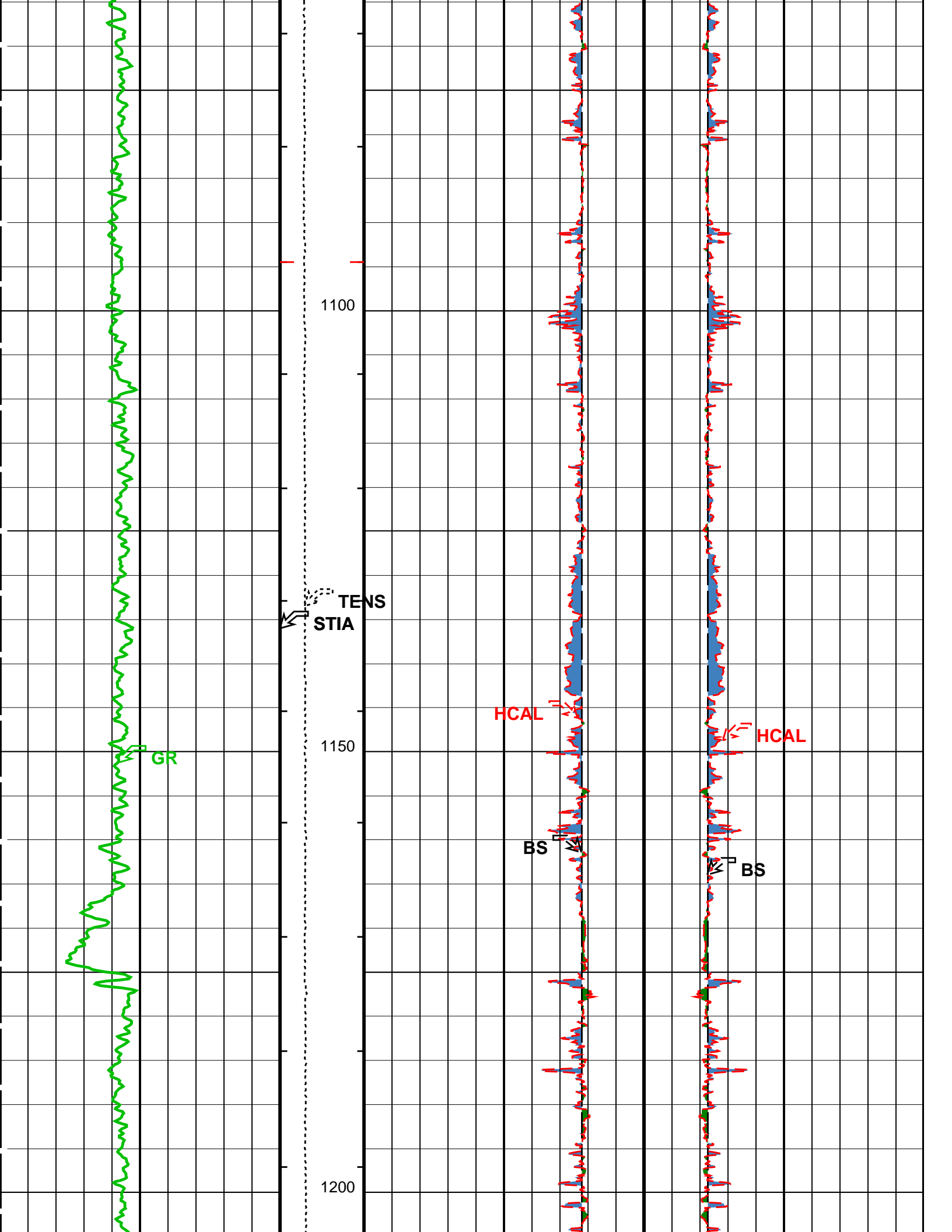
- └ Integrated Hole Volume Minor Pip Every 1 M3
- └ Integrated Hole Volume Major Pip Every 10 M3
- └ Integrated Cement Volume Minor Pip Every 1 M3
- └ Integrated Cement Volume Major Pip Every 10 M3

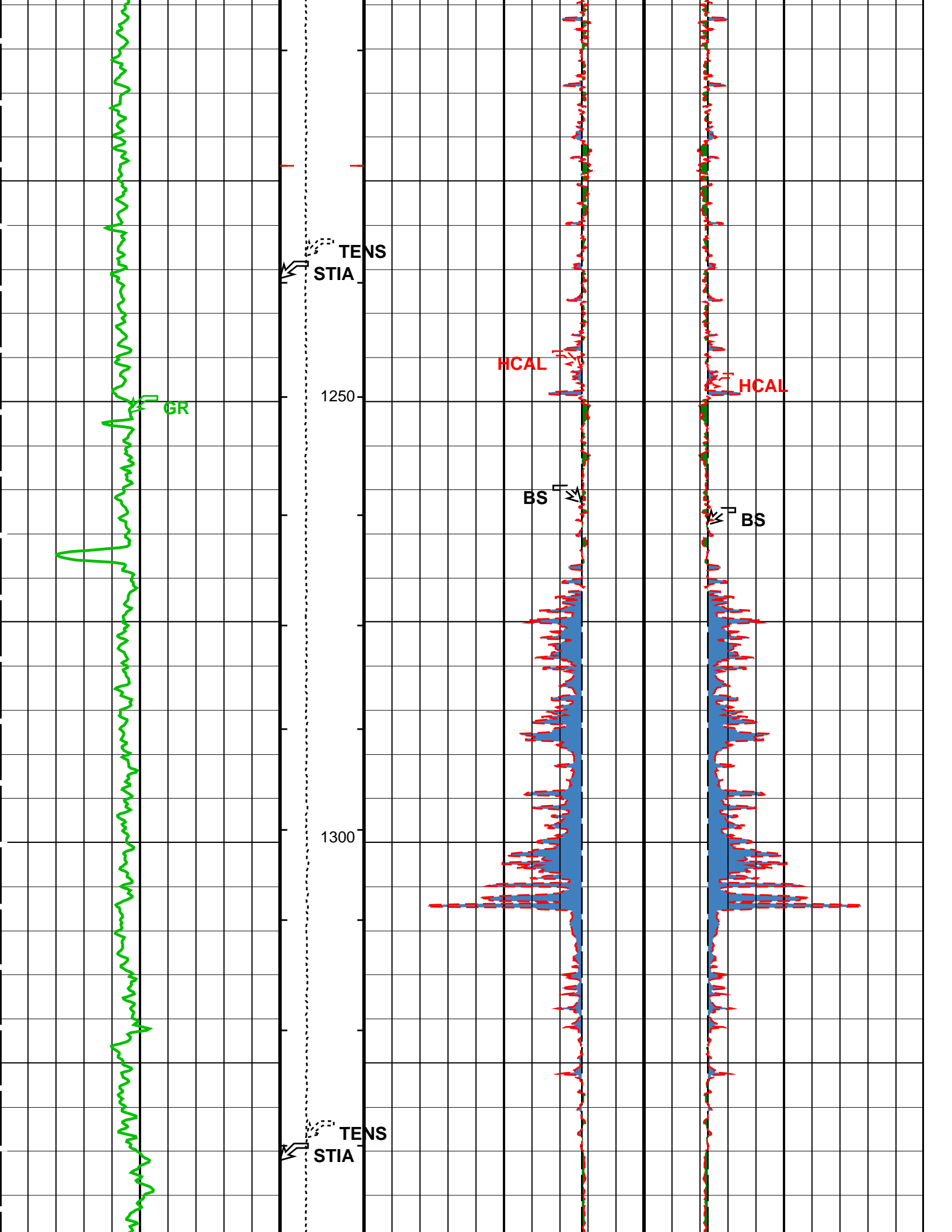
Time Mark Every 60 S

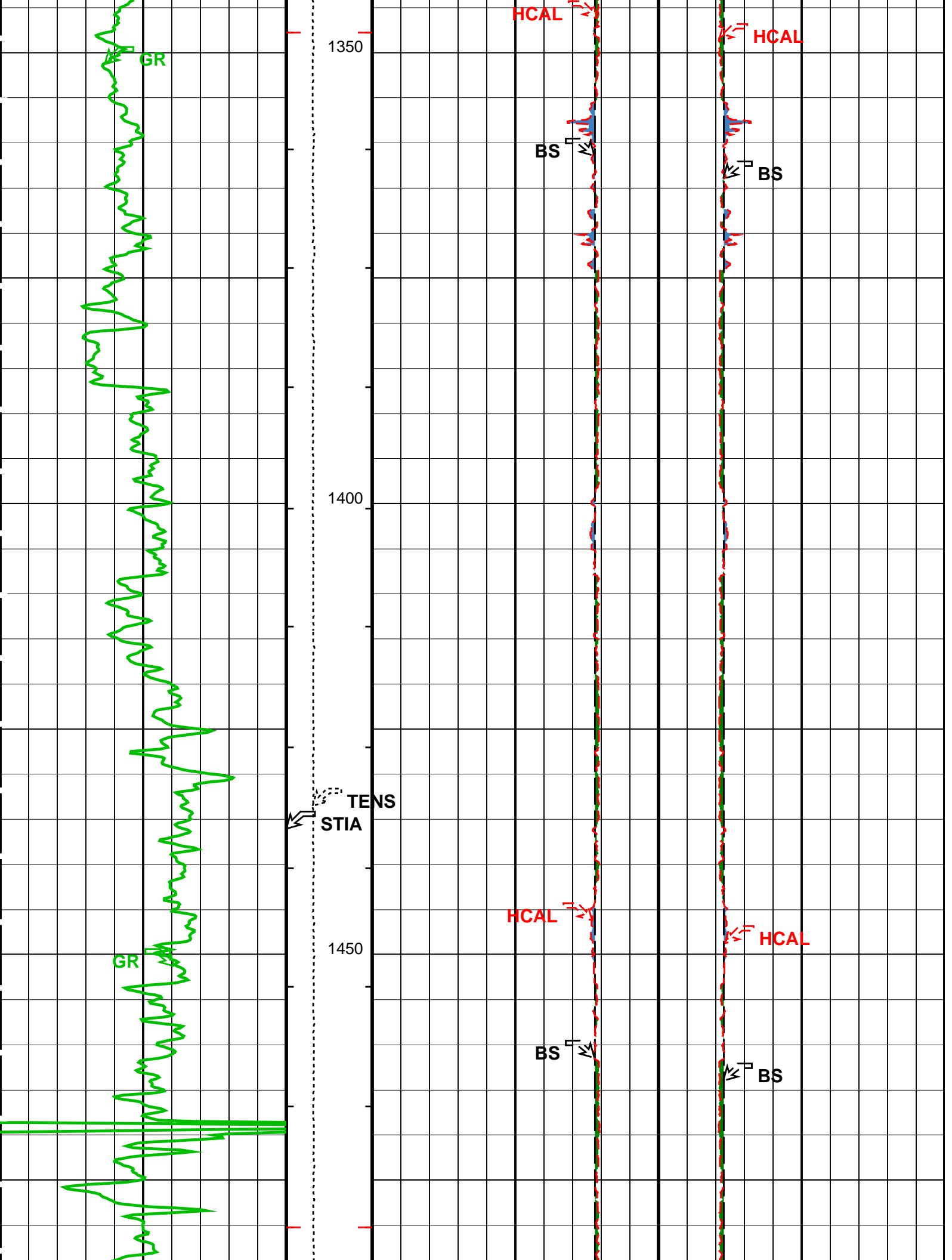


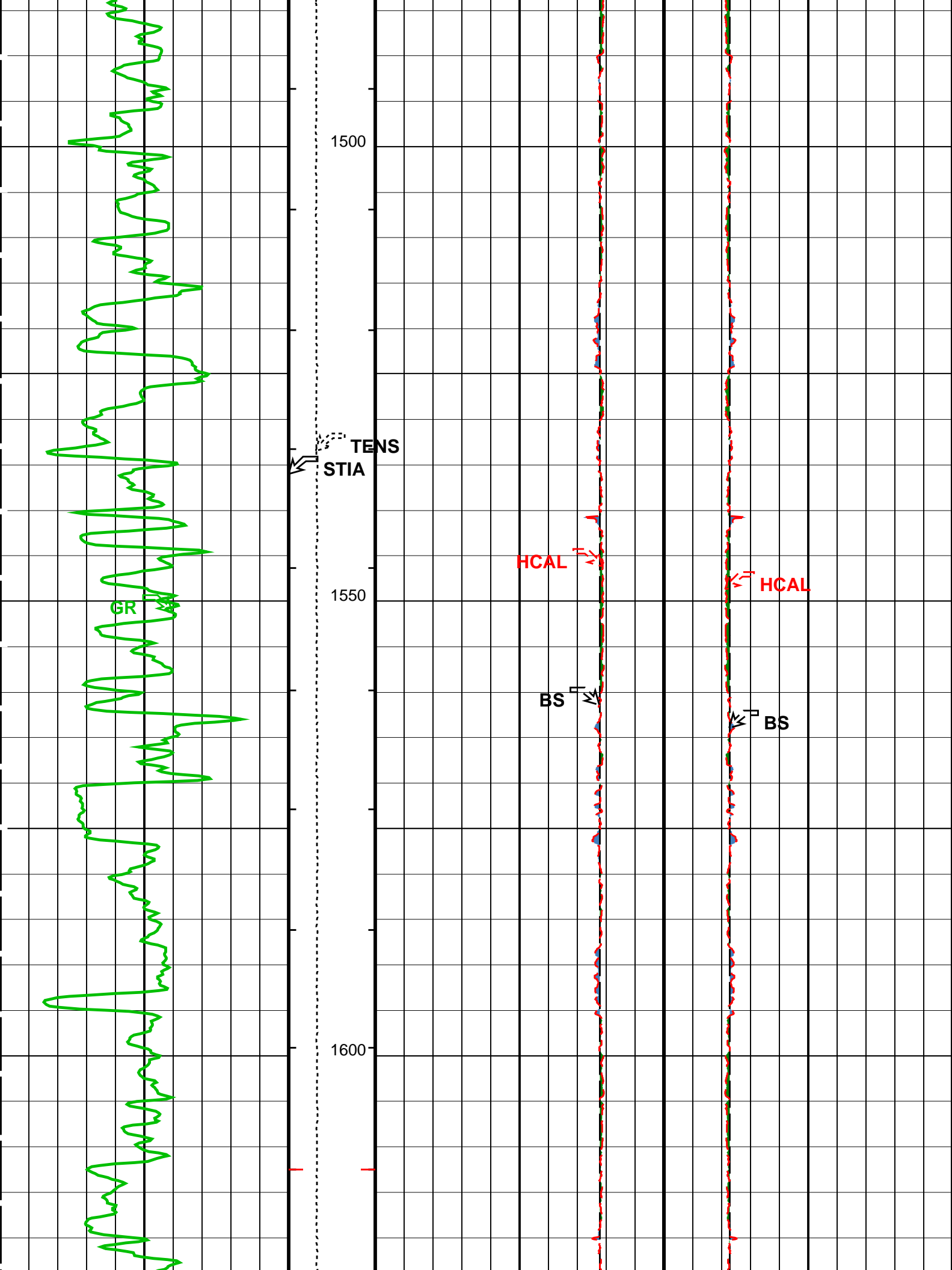


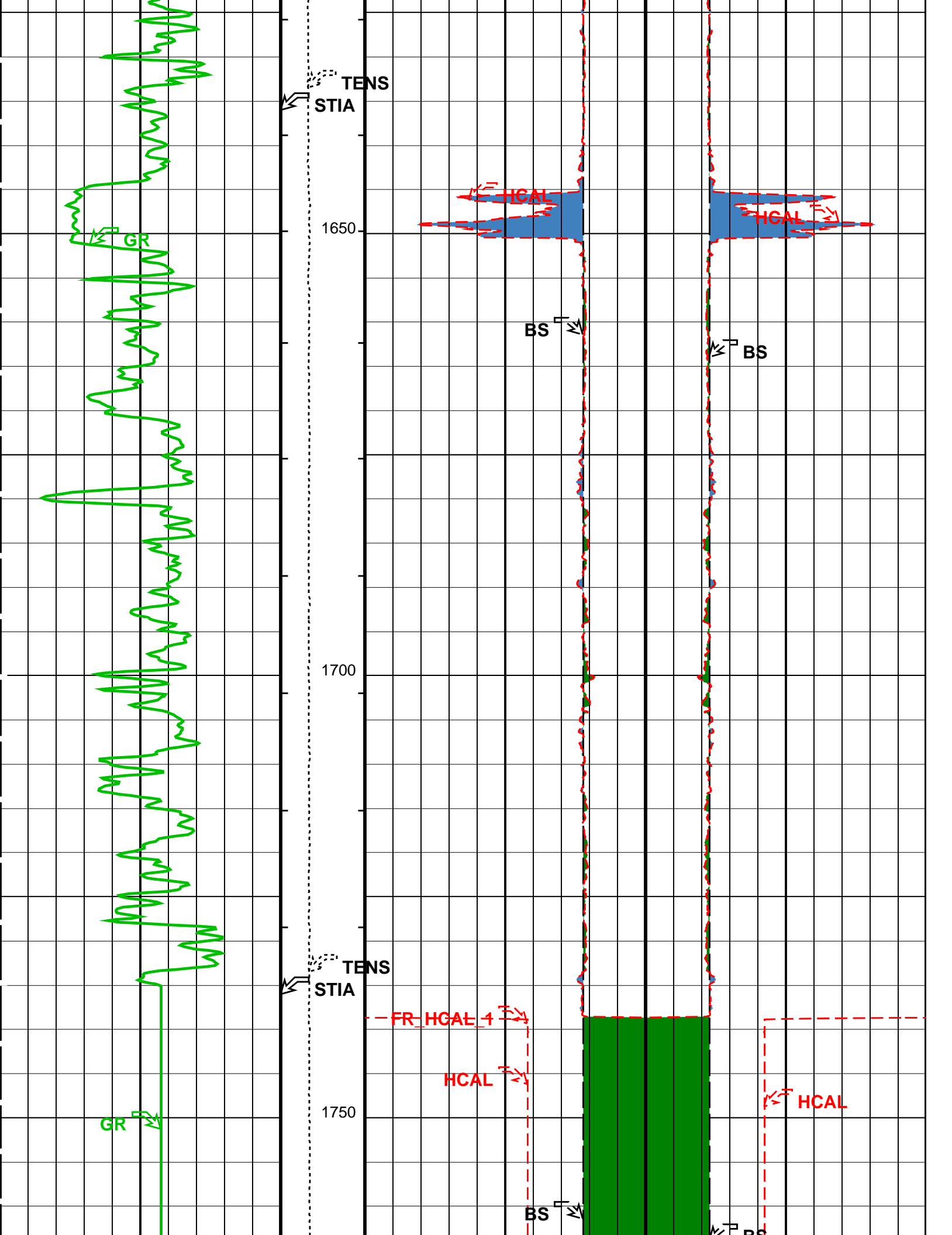












Gamma Ray (GR) (GAPI)		Tension (TENS) (LBF)	Bit Size (BS) (IN)		Bit Size (BS) (IN)	
0	200	0 10000	20	10 10	10	20
			HILT Caliper (HCAL) (IN)		HILT Caliper (HCAL) (IN)	
			20	10 10	10	20
			Undergauge From BS_1 to HCAL_1		Undergauge From HCAL to BS	
			Washout From HCAL_1 to BS_1		Washout From BS to HCAL	

PIP SUMMARY						
└ Integrated Hole Volume Minor Pip Every 1 M3 └ Integrated Hole Volume Major Pip Every 10 M3 └ Integrated Cement Volume Minor Pip Every 1 M3 └ Integrated Cement Volume Major Pip Every 10 M3						
Time Mark Every 60 S						

Parameters		
DLIS Name	Description	Value
BS	MAPC-B: Multimode Array Sonic Power Cartridge Bit Size	12.250 in
STKT	STI: Stuck Tool Indicator STI Stuck Threshold	0.762 m
TDD	Total Depth - Driller	1800.0 m
TDL	Total Depth - Logger	1764.0 m

Format: Tap_Craigow_1_PEX_Caliper_500	Vertical Scale: 1:500	Graphics File Created: 02-Jan-2011 23:25
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OP System Version: 18C0-147			
PPC1	SKK-3993-PPC	MAXS	SKK-3935-MAST
MAPC	SKK-3935-MAST	HRLT	SRPC-4072-Q4_2010_OP18
SPAA	18C0-147	HILTHD	18C0-147
EDTCB	SRPC-4072-Q4_2010_OP18		

Input DLIS Files						
DEFAULT	CAL_MAXS_MAPC_HRLA_082PUP	FN:97	PRODUCER	02-Jan-2011 22:22	1764.9 M	715.8 M



Calibrations

MAXIS Field Log

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
Powered Positioning Device/Caliper 1 Wellsite Calibration – PPC1 Caliper Calibration							
Before: 24-Dec-2010 20:33							
PPC1 Radius 1 Raw Small Radius	3.500	N/A	4.281	N/A	N/A	0.5000	IN
PPC1 Radius 1 Raw Large Radius	8.000	N/A	8.574	N/A	N/A	0.5000	IN
PPC1 Radius 2 Raw Small Radius	3.500	N/A	3.215	N/A	N/A	0.5000	IN
PPC1 Radius 2 Raw Large Radius	8.000	N/A	7.628	N/A	N/A	0.5000	IN

PPC1 Radius 3 Raw Small Radius	3.500	N/A	4.337	N/A	N/A	0.5000	IN
PPC1 Radius 3 Raw Large Radius	8.000	N/A	8.610	N/A	N/A	0.5000	IN
PPC1 Radius 4 Raw Small Radius	3.500	N/A	3.178	N/A	N/A	0.5000	IN
PPC1 Radius 4 Raw Large Radius	8.000	N/A	7.659	N/A	N/A	0.5000	IN

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01

Before: 1–Jan–2011 2:27

HRLT M0–M1 Voltage Plus – 0	0	N/A	–320.5	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 1	0	N/A	–340.3	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 2	0	N/A	–350.6	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 3	0	N/A	–326.9	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 4	0	N/A	–323.9	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 5	0	N/A	–323.0	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 6	0	N/A	340.3	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 7	0	N/A	–322.7	N/A	N/A	9.681	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12

Before: 1–Jan–2011 2:27

HRLT M1–M2 Voltage Plus – 0	0	N/A	1766	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 1	0	N/A	1867	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 2	0	N/A	1920	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 3	0	N/A	1793	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 4	0	N/A	1779	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 5	0	N/A	1777	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 6	0	N/A	–1875	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23

Before: 1–Jan–2011 2:27

HRLT M2–M3 Voltage Plus – 0	0	N/A	1754	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 1	0	N/A	1863	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 2	0	N/A	1919	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 3	0	N/A	1796	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 4	0	N/A	1776	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 5	0	N/A	1775	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 6	0	N/A	–1859	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34

Before: 1–Jan–2011 2:27

HRLT A3–A4 Voltage Plus – 0	0	N/A	69010	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 1	0	N/A	73620	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 2	0	N/A	75980	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 3	0	N/A	71210	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 4	0	N/A	70290	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 5	0	N/A	70200	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 6	0	N/A	–72420	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V45

Before: 1–Jan–2011 2:27

HRLT A4–A5 Voltage Plus – 0	0	N/A	68880	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 1	0	N/A	73500	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 2	0	N/A	75850	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 3	0	N/A	71100	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 4	0	N/A	70160	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 5	0	N/A	70070	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 6	0	N/A	–72300	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V56

Before: 1–Jan–2011 2:27

HRLT A5–A6 Voltage Plus – 0	0	N/A	68870	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 1	0	N/A	73240	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 2	0	N/A	75670	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 3	0	N/A	70970	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 4	0	N/A	70100	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 5	0	N/A	70040	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 6	0	N/A	–72040	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VTP









Before: 1–Jan–2011 2:27









HRLT Torpedo–M0 Voltage – 0	0	N/A	–68530	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 1	0	N/A	–73250	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 2	0	N/A	–75720	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 3	0	N/A	–71080	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 4	0	N/A	–70240	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 5	0	N/A	–70170	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 6	0	N/A	71980	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 7	0	N/A	–70000	N/A	N/A	2100	UV









High Resolution Laterolog Array – B Wellsite Calibration – HRLT VBD							
Before: 1–Jan–2011 2:27							
HRLT Bridle#9–M0 Voltage – 0	0	N/A	–68490	N/A	N/A	2100	UV
HRLT Bridle#9–M0 Voltage – 1	0	N/A	–73090	N/A	N/A	2100	UV
HRLT Bridle#9–M0 Voltage – 2	0	N/A	–75560	N/A	N/A	2100	UV
HRLT Bridle#9–M0 Voltage – 3	0	N/A	–70960	N/A	N/A	2100	UV
HRLT Bridle#9–M0 Voltage – 4	0	N/A	–70180	N/A	N/A	2100	UV
HRLT Bridle#9–M0 Voltage – 5	0	N/A	–70130	N/A	N/A	2100	UV
HRLT Bridle#9–M0 Voltage – 6	0	N/A	71820	N/A	N/A	2100	UV
HRLT Bridle#9–M0 Voltage – 7	0	N/A	–70000	N/A	N/A	2100	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT ISO							
Before: 1–Jan–2011 2:27							
HRLT Source Current Plus – 0	0	N/A	285.8	N/A	N/A	8.520	UA
HRLT Source Current Plus – 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 7	0	N/A	281.1	N/A	N/A	8.520	UA
High Resolution Laterolog Array – B Wellsite Calibration – HRLT MV							
Before: 1–Jan–2011 2:27							
HRLT Vertical Voltage PI – 0	0	N/A	–323.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 1	0	N/A	–334.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 2	0	N/A	–343.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 3	0	N/A	–319.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 4	0	N/A	–313.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 5	0	N/A	–327.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 6	0	N/A	347.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 7	0	N/A	–322.7	N/A	N/A	9.681	UV
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Stab Measurement Summary							
Before: 30–Dec–2010 7:19							
BS Window Ratio	0.7425	N/A	0.7433	N/A	N/A	N/A	
BS Window Sum	29250	N/A	29210	N/A	N/A	N/A	CPS
SS Window Ratio	0.4838	N/A	0.4848	N/A	N/A	N/A	
SS Window Sum	12510	N/A	12470	N/A	N/A	N/A	CPS
LS Window Ratio	0.2970	N/A	0.2953	N/A	N/A	N/A	
LS Window Sum	1360	N/A	1356	N/A	N/A	N/A	CPS
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Photo–multiplier High Voltages Calibrations							
Before: 30–Dec–2010 7:19							
BS PM High Voltage (Command)	1328	N/A	1320	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1471	N/A	1480	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1292	N/A	1296	N/A	N/A	N/A	V
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration							
Before: 30–Dec–2010 7:19							
BS Crystal Resolution	10.61	N/A	10.60	N/A	N/A	N/A	%
SS Crystal Resolution	9.871	N/A	9.997	N/A	N/A	N/A	%
LS Crystal Resolution	8.573	N/A	8.550	N/A	N/A	N/A	%
High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration							
Before: 30–Dec–2010 7:15							
Raw B0 Resistivity	3875	N/A	3886	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3829	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3834	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration							
Before: 30–Dec–2010 7:44							
HILT Caliper Zero Measurement	8.000	N/A	7.838	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.24	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration							
Before: 30–Dec–2010 7:17							
Gamma Ray Background	30.00	N/A	7.974	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkgd)	165.0	N/A	170.2	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement							
Master: 19–Dec–2010 18:00 Before: 30–Dec–2010 7:16							
CNTC Background	25.64	25.64	25.51	N/A	N/A	3.846	CPS
CFTC Background	27.44	27.44	26.84	N/A	N/A	4.116	CPS
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement							
Master: 19–Dec–2010 18:00							
Thermal Near Corr. (Tank)	5800	5329	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2217	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.403	N/A	N/A	N/A	N/A	


Auxiliary Equipment:
HRLT lower Housing
HRLT Lower Cartridge
HRLT upper Housing
HRLT Upper Cartridge

HRLH – B 966
HRLC – B 964
HRUH – B 967
HRUC – B 985

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M01						
Idx	Phase	HRLT M0–M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.5	-322.7	-280.7	-379.7
1	Before		-340.3	-322.7	-280.7	-379.7
2	Before		-350.6	-322.7	-280.7	-379.7
3	Before		-326.9	-322.7	-280.7	-379.7
4	Before		-323.9	-322.7	-280.7	-379.7
5	Before		-323.0	-322.7	-280.7	-379.7
6	Before		340.3	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 1–Jan–2011 2:27						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1–M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1766	1781	2095	1549
1	Before		1867	1781	2095	1549
2	Before		1920	1781	2095	1549
3	Before		1793	1781	2095	1549
4	Before		1779	1781	2095	1549
5	Before		1777	1781	2095	1549
6	Before		-1875	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 1–Jan–2011 2:27						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1754	1781	2095	1549
1	Before		1863	1781	2095	1549
2	Before		1919	1781	2095	1549
3	Before		1796	1781	2095	1549
4	Before		1776	1781	2095	1549
5	Before		1775	1781	2095	1549
6	Before		-1859	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 1–Jan–2011 2:27						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		2221.0	2000.0	2200.0	2200.0

1	Before		69010	70000	82360	60900
2	Before		75980	70000	82360	60900
3	Before		71210	70000	82360	60900
4	Before		70290	70000	82360	60900
5	Before		70200	70000	82360	60900
6	Before		-72420	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						

Before: 1-Jan-2011 2:27


High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68880	70000	82360	60900
1	Before		73500	70000	82360	60900
2	Before		75850	70000	82360	60900
3	Before		71100	70000	82360	60900
4	Before		70160	70000	82360	60900
5	Before		70070	70000	82360	60900
6	Before		-72300	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						









Before: 1-Jan-2011 2:27









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68870	70000	82360	60900
1	Before		73240	70000	82360	60900
2	Before		75670	70000	82360	60900
3	Before		70970	70000	82360	60900
4	Before		70100	70000	82360	60900
5	Before		70040	70000	82360	60900
6	Before		-72040	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						









Before: 1-Jan-2011 2:27

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68530	-70000	-60900	-82360
1	Before		-73250	-70000	-60900	-82360
2	Before		-75720	-70000	-60900	-82360
3	Before		-71080	-70000	-60900	-82360
4	Before		-70240	-70000	-60900	-82360
5	Before		-70170	-70000	-60900	-82360
6	Before		71980	70000	82360	60900

7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68490	-70000	-60900	-82360
1	Before		-73090	-70000	-60900	-82360
2	Before		-75560	-70000	-60900	-82360
3	Before		-70960	-70000	-60900	-82360
4	Before		-70180	-70000	-60900	-82360
5	Before		-70130	-70000	-60900	-82360
6	Before		71820	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		285.8	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
2	Before		281.1	281.1	330.7	244.4
3	Before		281.1	281.1	330.7	244.4
4	Before		281.1	281.1	330.7	244.4
5	Before		281.1	281.1	330.7	244.4
6	Before		281.1	281.1	330.7	244.4
7	Before		281.1	281.1	330.7	244.4
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-323.0	-322.7	-280.7	-379.7
1	Before		-334.1	-322.7	-280.7	-379.7
2	Before		-343.5	-322.7	-280.7	-379.7
3	Before		-319.2	-322.7	-280.7	-379.7
4	Before		-313.5	-322.7	-280.7	-379.7
5	Before		-327.8	-322.7	-280.7	-379.7
6	Before		347.6	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 1-Jan-2011 2:27						

High resolution Integrated Logging Tool-DTS / Equipment Identification

Primary Equipment:

HILT high-Resolution Mechanical Sonde

HILT Rxo Gamma-ray Device

HRMS – H

4838

HRGD – H

4968







HILT Micro Cylindrically Focused Log Dev
GR Logging Source
HILT High Res. Control Cartridge
HILT Gamma-Ray Neutron Sonde-DTS
HGNS Gamma-Ray Device
HGNS Neutron Detector with Alpha Source




MCFL – H 1
GLS – VJ 5262
HRCC – H 4866
HGNS – H 4874
HGR –
HCNT – H




Auxiliary Equipment:




Neutron Calibration Tank
Gamma Source Radioactive
HGNS Housing



NCT – B
GSR – U/Y
HGNH – 3991



High resolution Integrated Logging Tool–DTS Wellsite Calibration														
Stab Measurement Summary														
Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value	Phase	LS Window Ratio			Value
Before				0.7433	Before				0.4848	Before				0.2953
	0.7054 (Minimum)	0.7425 (Nominal)	0.7796 (Maximum)		0.4596 (Minimum)	0.4838 (Nominal)	0.5080 (Maximum)			0.2822 (Minimum)	0.2970 (Nominal)	0.3119 (Maximum)		
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value	Phase	LS Window Sum CPS			Value
Before				29210	Before				12470	Before				1356
	27790 (Minimum)	29250 (Nominal)	30720 (Maximum)		11890 (Minimum)	12510 (Nominal)	13140 (Maximum)			1292 (Minimum)	1360 (Nominal)	1428 (Maximum)		
Before: 30-Dec-2010 7:19														

High resolution Integrated Logging Tool–DTS Wellsite Calibration														
Photo–multiplier High Voltages Calibrations														
Phase	BS PM High Voltage (Command) V			Value	Phase	SS PM High Voltage (Command) V			Value	Phase	LS PM High Voltage (Command) V			Value
Before				1320	Before				1480	Before				1296
	1228 (Minimum)	1328 (Nominal)	1428 (Maximum)		1371 (Minimum)	1471 (Nominal)	1571 (Maximum)			1192 (Minimum)	1292 (Nominal)	1392 (Maximum)		
Before: 30–Dec–2010 7:19														

High resolution Integrated Logging Tool–DTS Wellsite Calibration											
Crystal Quality Resolutions Calibration											
Phase	BS Crystal Resolution %		Value	Phase	SS Crystal Resolution %		Value	Phase	LS Crystal Resolution %		Value
Before			10.60	Before			9.997	Before			8.550
	9.606 (Minimum)	10.61 (Nominal)	11.61 (Maximum)		8.871 (Minimum)	9.871 (Nominal)	10.87 (Maximum)		7.573 (Minimum)	8.573 (Nominal)	9.573 (Maximum)
Before: 30-Dec-2010 7:19											

High resolution Integrated Logging Tool–DTS Wellsite Calibration														
MCFL Calibration														
Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				3886	Before				3829	Before				3834
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		
Before: 30-Dec-2010 7:15														

High resolution Integrated Logging Tool–DTS Wellsite Calibration							
HILT Caliper Calibration							
Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			7.838	Before			12.24
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 30-Dec-2010 7:44							

High resolution Integrated Logging Tool–DTS Wellsite Calibration							
Detector Calibration							
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig – Bkgd) GAPI	Value	
Before			7.974	Before			170.2
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		157.1 (Minimum)	165.0 (Nominal)	206.3 (Maximum)
Before: 30–Dec–2010 7:17							

High resolution Integrated Logging Tool–DTS Wellsite Calibration					
Zero Measurement					
Phase	CNTC Background CPS	Value	Phase	CETC Background CPS	Value




Phase	CNTC Background CPS	Value	Phase	CNTC Background CPS	Value
Master		25.64	Master		27.44
Before		25.51	Before		26.84
5.000 (Minimum)		25.64 (Nominal)	5.000 (Minimum)		27.44 (Nominal)
		40.00 (Maximum)			40.00 (Maximum)
Master: 19-Dec-2010 18:00			Before: 30-Dec-2010 7:16		

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Ratio Measurement											
Phase	Thermal Near Corr. (Tank) CPS		Value	Phase	Thermal Far Corr. (Tank) CPS		Value	Phase	CNTC/CFTC (Tank)		Value
Master	<div><div></div></div>		5329	Master	<div><div></div></div>		2217	Master	<div><div></div></div>		2.403
4700 (Minimum)			5800 (Nominal)	6900 (Maximum)	1900 (Minimum)			2400 (Nominal)	2900 (Maximum)	2.120 (Minimum)	
										2.159 (Nominal)	
										2.540 (Maximum)	
Master: 19-Dec-2010 18:00											

High resolution Integrated Logging Tool-DTS Wellsite Calibration Accelerometer Calibration		
Phase	Z-Axis Acceleration M/S2	Value
Before		9.793
9.610 (Minimum)		9.810 (Nominal)
		10.01 (Maximum)
Before: 31-Dec-2010 23:42		

Enhanced DTS Cartridge / Equipment Identification		
Primary Equipment:		
EDTC Gamma Ray Detector	EDTG - A/B	77662
Enhanced DTS Cartridge	EDTC - B	8691
Auxiliary Equipment:		
EDTC Housing	EDTH - B	8706

Enhanced DTS Cartridge Wellsite Calibration EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.802
9.610 (Minimum)		9.810 (Nominal)
		10.01 (Maximum)
Before: 31-Dec-2010 23:39		

Enhanced DTS Cartridge Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig – Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			7.212	Before			155.6	Before			165.0
0 (Minimum)				141.5 (Minimum)				150.0 (Minimum)			
30.00 (Nominal)				155.6 (Nominal)				165.0 (Nominal)			
120.0 (Maximum)				169.8 (Maximum)				180.0 (Maximum)			
Before: 30-Dec-2010 12:21											

Company: Tap Oil Limited

Schlumberger

Well: Craigow-1
Field: Craigow
Rig: Kan Tan IV

Country: **Australia**

Suite 1 Run 1

MSIP-HRLT-SP-PEX-GR

Caliper Log 1:200 & 1:500