

[illegible]

DEPTH SUMMARY LISTING

Date Created: 20-JUN-2011 22:31:44

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46A XS
Serial Number:	6214	Serial Number:	2527	Serial Number:	368473
Calibration Date:	20-JAN-2011	Calibration Date:	13-JUN-2011	Length:	24000 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	100518	Conveyance Method:	Wireline
Calibration Cable Type:	7-46P XS	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-8	Calibration RMS:	26		
Wheel Correction 2:	-6	Calibration Peak Error:	42		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	220.00 FT
Rig Up Length At Bottom:	219.00 FT
Rig Up Length Correction:	1.00 FT
Stretch Correction:	3.00 FT
Tool Zero Check At Surface:	1.00 FT

Depth Control Remarks

- | |
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| <ol style="list-style-type: none">1. ALL SCHLUMBERGER DEPTHS POLICIES WERE FOLLOWED2. IDW USED AS PRIMARY DEPTH CONTROL3. Z-CHART USED AS SECONDARY DEPTH CONTROL4.5.6. |
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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	
Tool ran as per tool skecth			
Tool ran with 2*1.5 inch standoffs			
Density compensated for bit size			
Neutron compensated for hole size and standoff			
Data invalid in regions with tight pull and washout			

RUN 1 SERVICE ORDER #: PROGRAM VERSION: 19C0-187 FLUID LEVEL: 10 ft			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

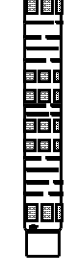
[illegible]

RUN 1		RUN 2	
SURFACE EQUIPMENT WITM (DTS)-A			
GSR-U/Y NCT-B CNB-AB NCS-VB			
DOWNHOLE EQUIPMENT			
LEH-QT LEH-QT			64.2
DTC-H ECH-KC DTCH0-A	CTEM TelStatus ToolStatu HGNS HTEM HMCA		60.4 58.3 58.3
HILTH-FTB HGNSD-H 3799 HMCA-H HGNH NLS-KL NSR-F 5138 HACCZ-H 1614 HCNT-H HGR HRCC-H 4863 HRMS-H 3964 HRGD-H 3995 GLS-VJ 5234 MCFL Device-H HILT Nucl. LS-H 28805 HRCC cart HILT Nucl. SS-H 42767 HILT Nucl. BS-H 26447 BOW-SPR NPV-N	HGNS Gamm HGNS Neut HGNS Neut HGNS sens MCFL HILT cali HRDD-LS HRDD-SS HRDD-BS		57.5 51.7 51.2 48.9 44.9 39.4 39.0 38.6
DSLT-FTB DSLCL-B ECH-KH SLS-W			36.6

USN 24.2
 UHN 23.4
 USF UHF 23.2

 LSF LHF 20.4
 LHN 20.2
 LSN 19.4

 DSLT Aux. 16.0



AIT-M
 AMIS-A 2562
 AMRM-A

16.0
 1.5 IN
 Standoff

Induction
 Temperatu
 Power Sup

7.9

SP SENSOR
 DF
 HTEN HMAS HV
 Accelerom
 Mud Resis
 Tension

0.1

TOOL ZERO

0.0

1.5 IN
 Standoff

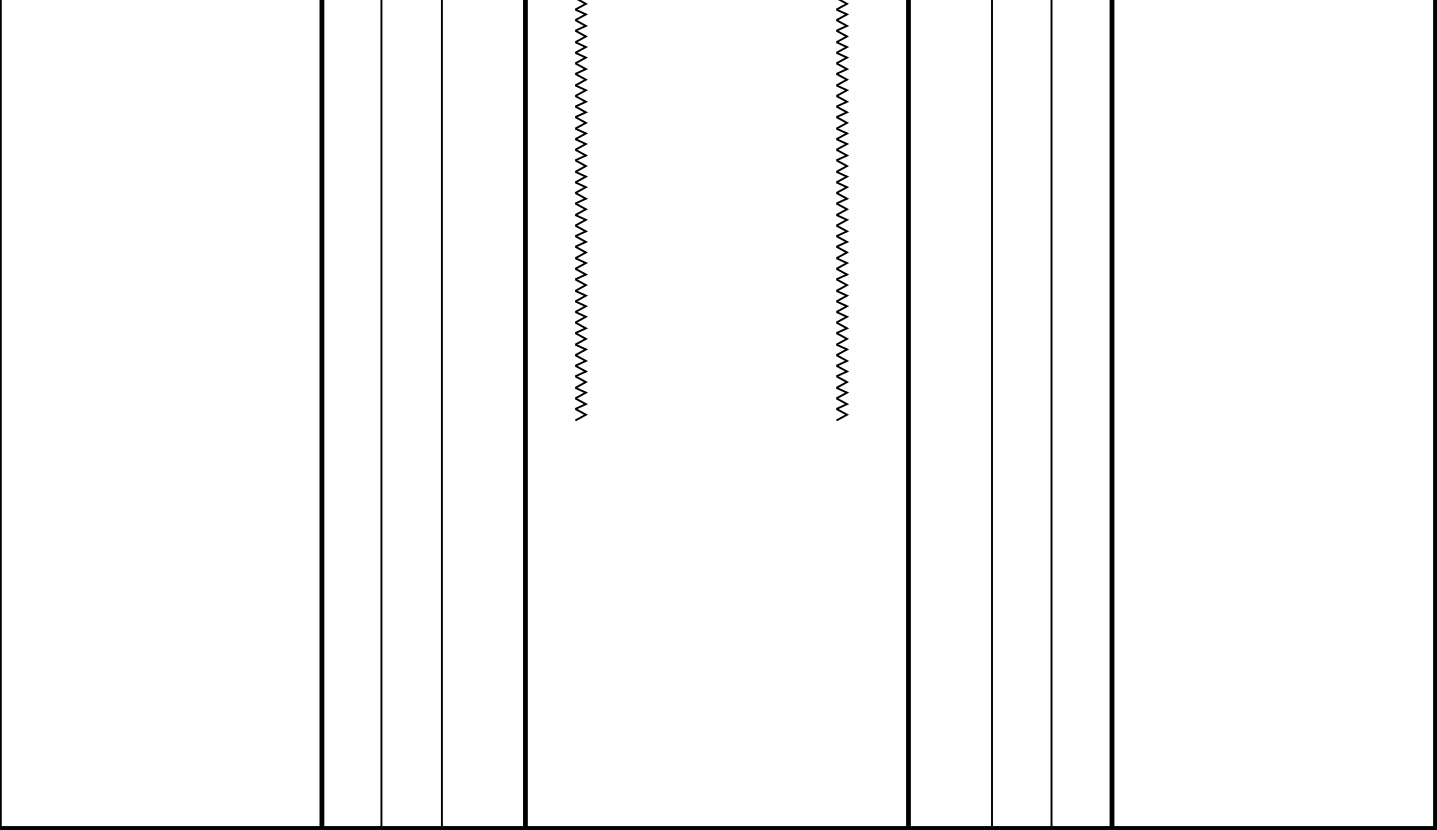
MAXIMUM STRING DIAMETER 6.88 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN FEET

Client: QUICKSILVER RESOURCES INC.
 Well: WEBER 32-4
 Field: NIOBRARA
 State: COLORADO
 Country: USA

Rig Name: DHS # 6
 Reference Datum: Kelly Bushing
 Elevation: 6686.0 ft

Drawing Date: 6/20/2011
 API #: 50810765400

Production String	(in)		(ft)	Well Schematic	(ft)		(in)	Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	9.625		Casing String
					1218.0	9.625		Casing Shoe
					1218.0	8.750		Borehole Segment



ALL DEPTHS ARE DRILLER'S DEPTHS



MAIN PASS

MAXIS Field Log

Input DLIS Files						
DEFAULT	AIT_SONIC_TLD_MCFL_009LUP	FN:13	PRODUCER	21-Jun-2011 00:56	6147.0 FT	179.2 FT
Output DLIS Files						
DEFAULT	AIT_SONIC_TLD_MCFL_019PUP	FN:26	PRODUCER	21-Jun-2011 04:05	6150.0 FT	1200.0 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 1981.59 F3
Cement Volume = 667.14 F3 (assuming 7.00 IN casing O.D.)
Computed from 6136.0 FT to 1218.0 FT using data channel(s) HCAL

PIP SUMMARY

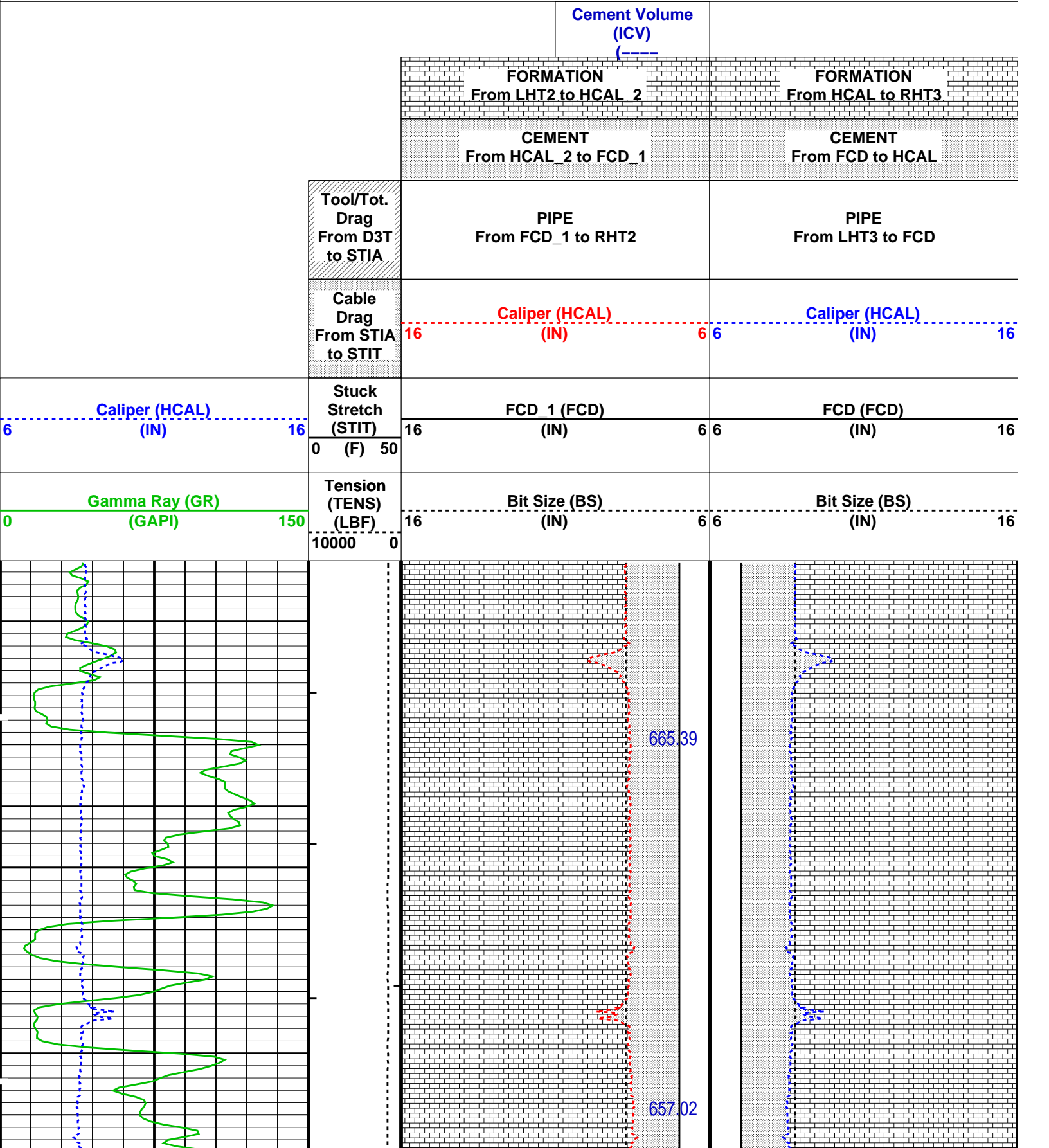
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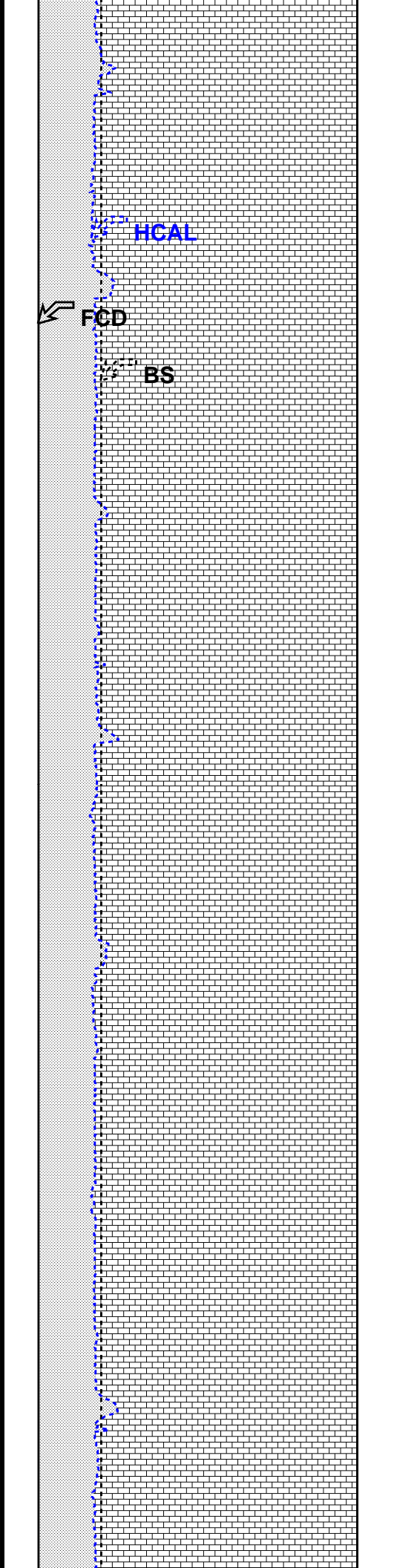
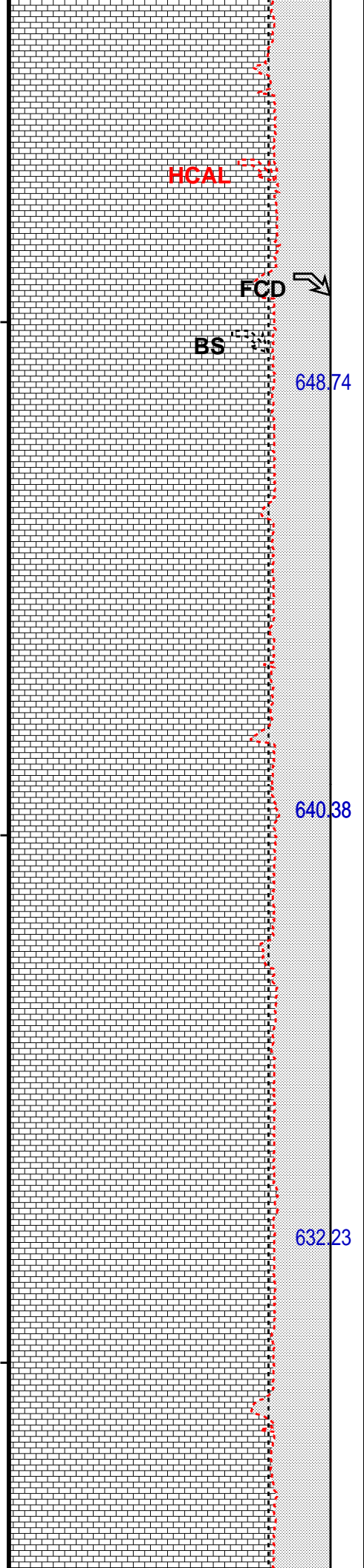
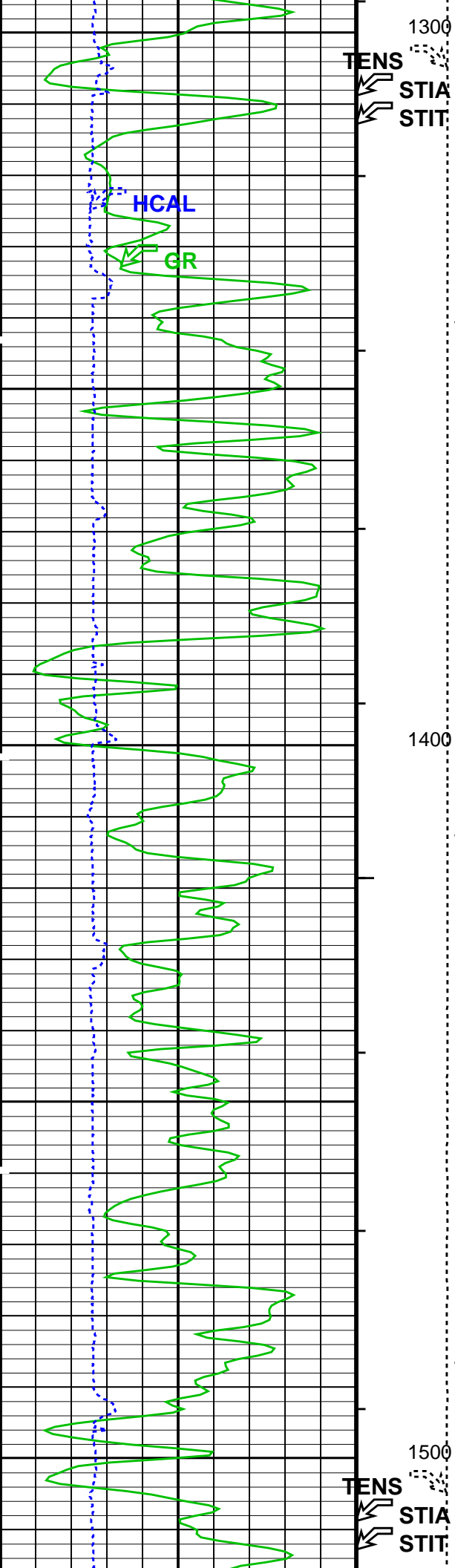
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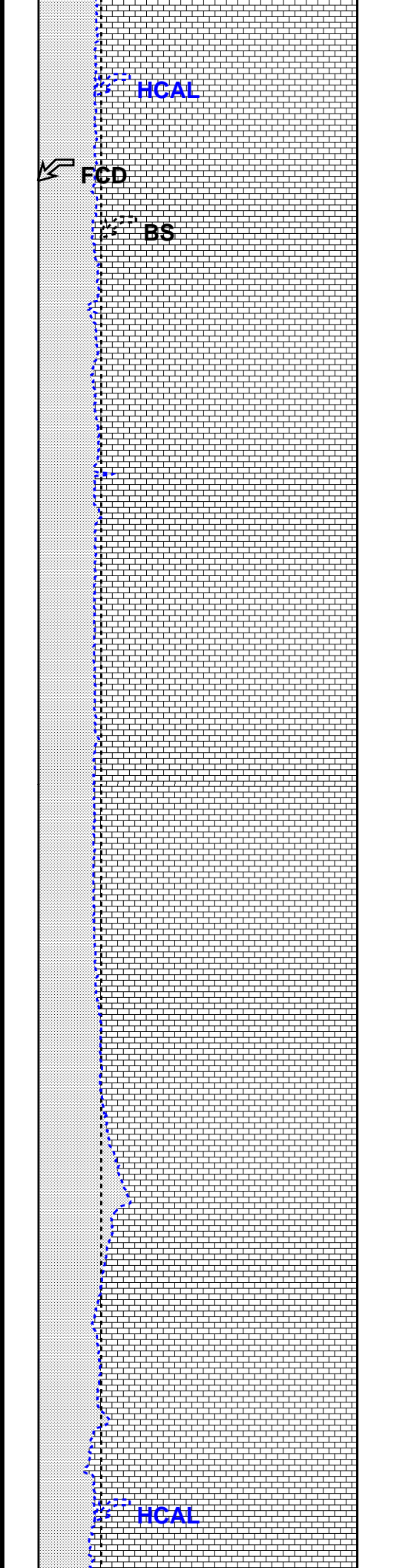
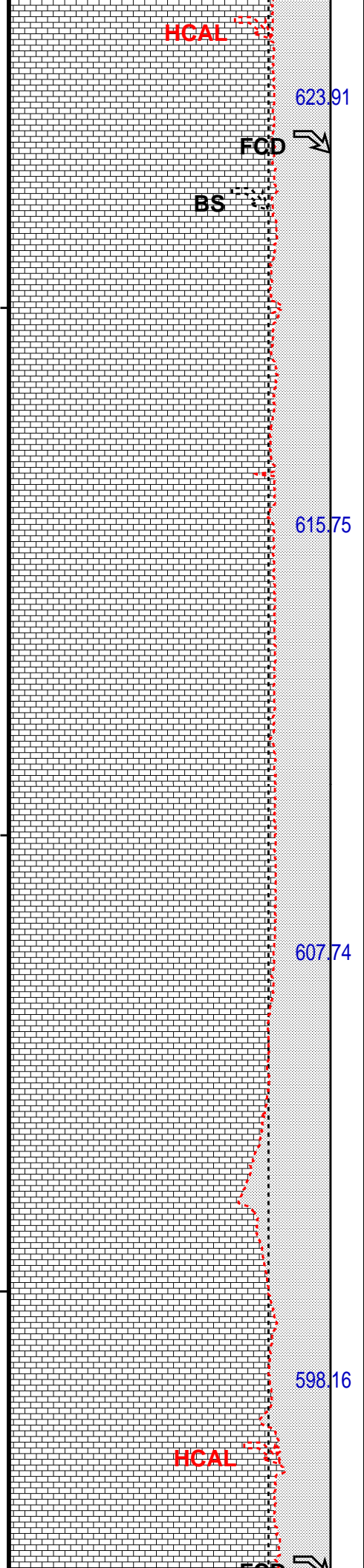
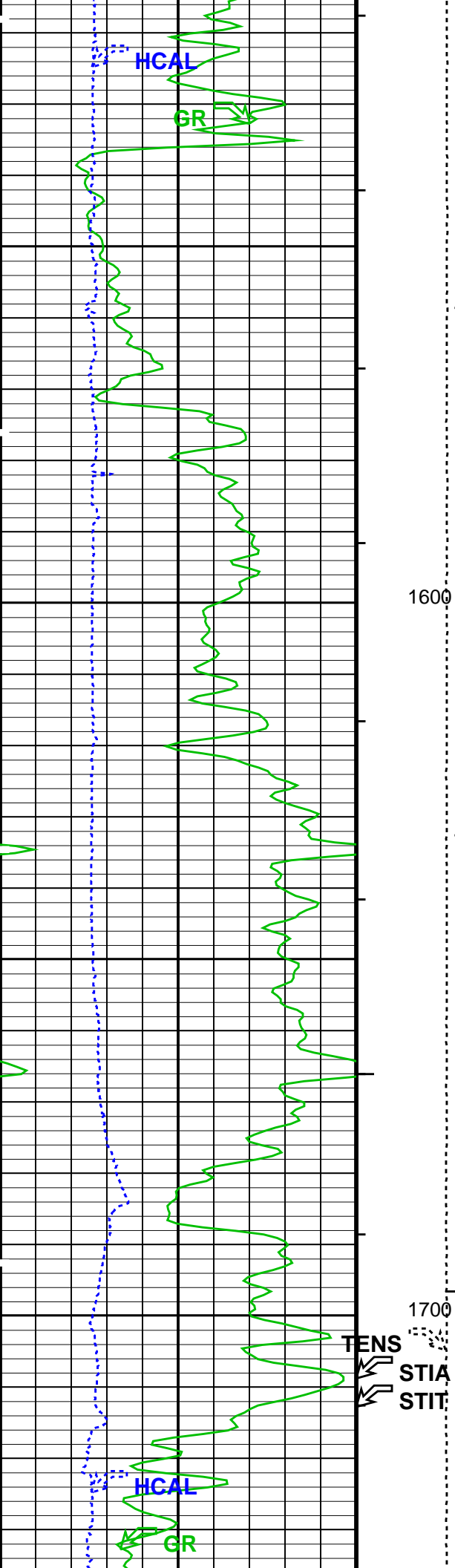
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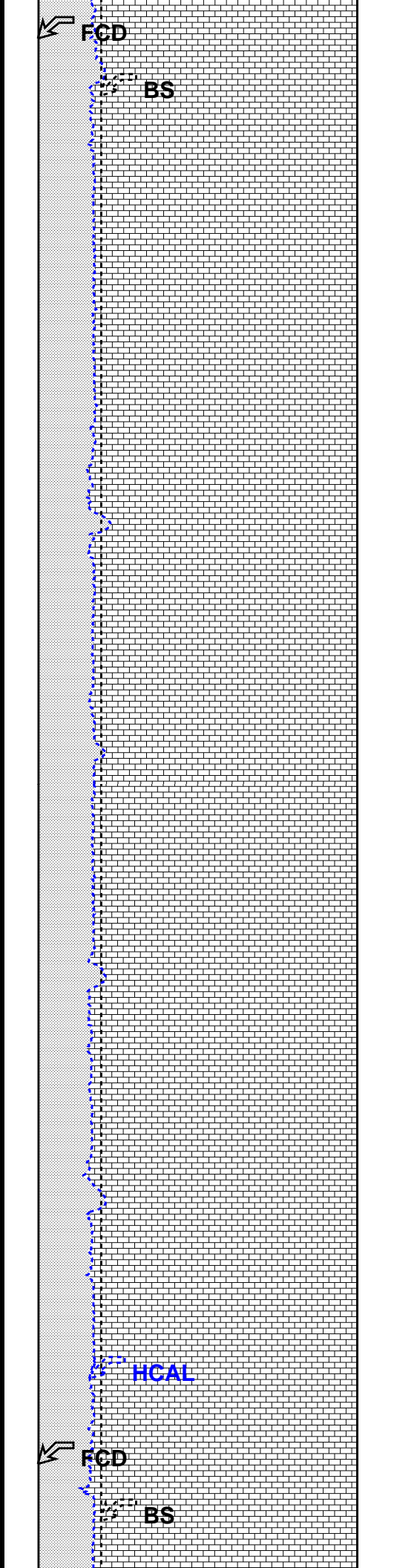
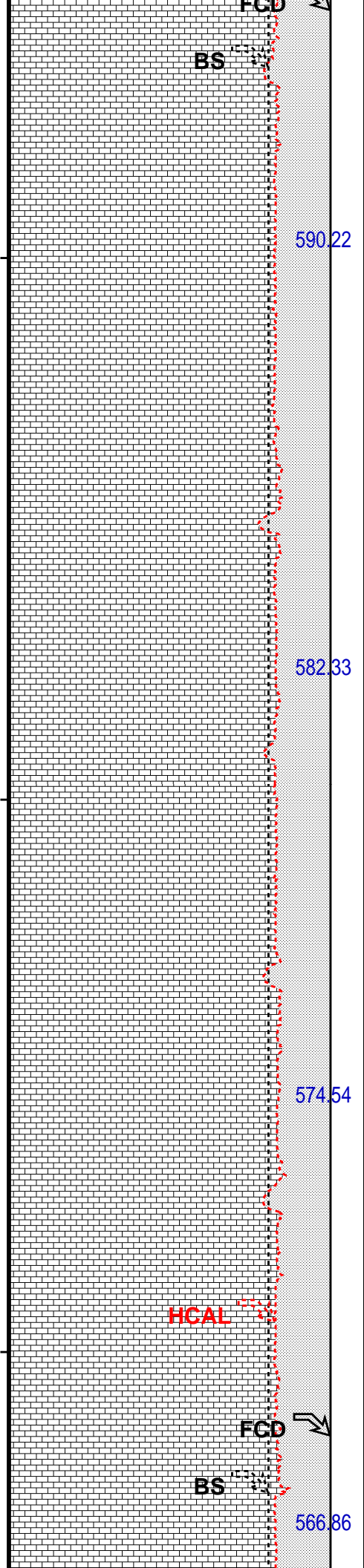
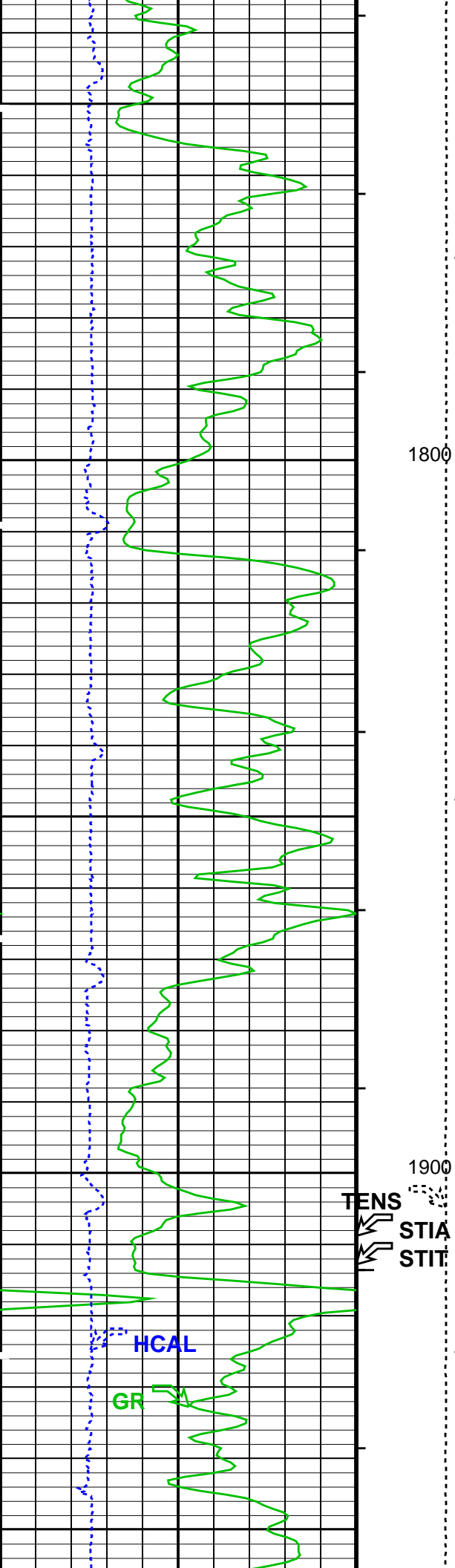
└ Integrated Cement Volume Major Pip Every 100 F3

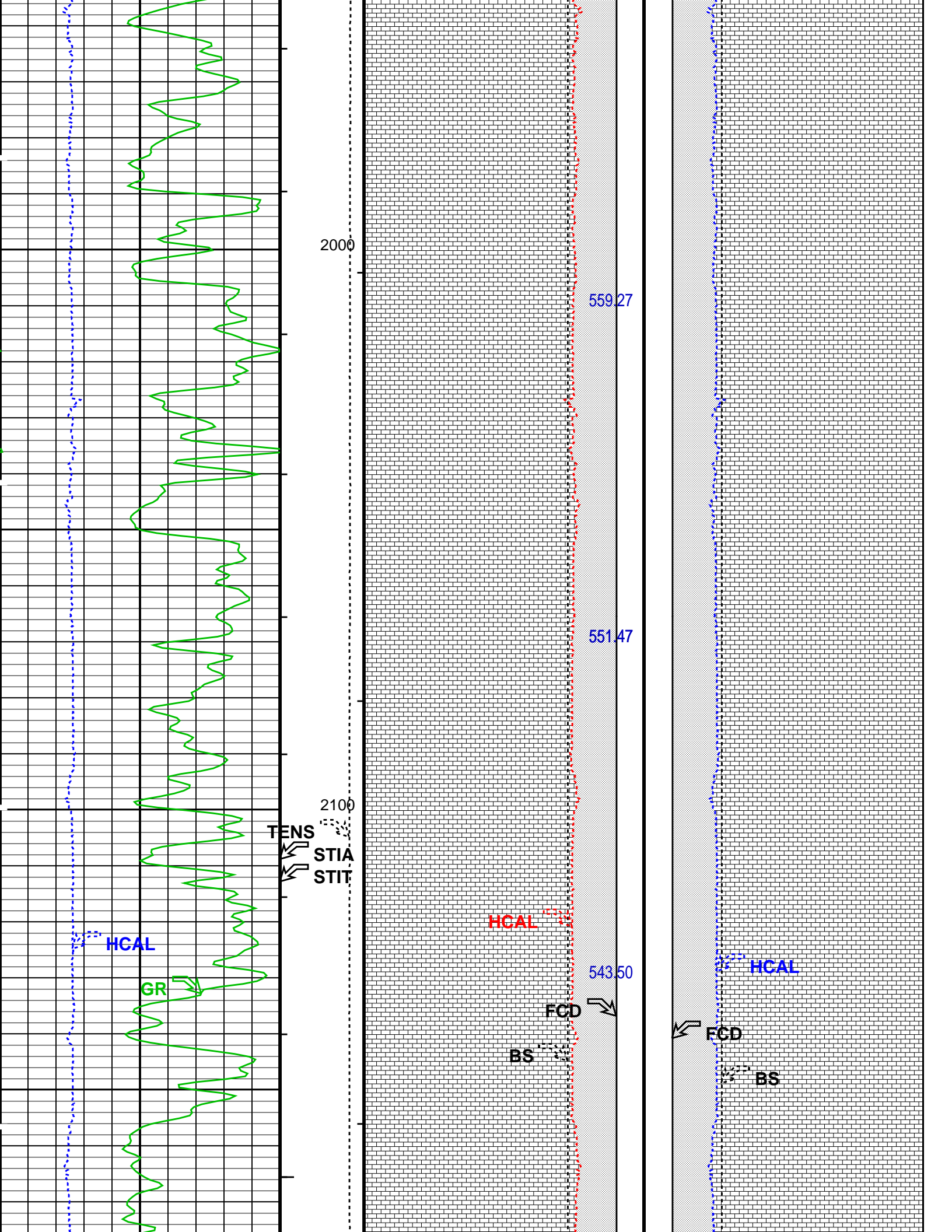
Time Mark Every 60 S

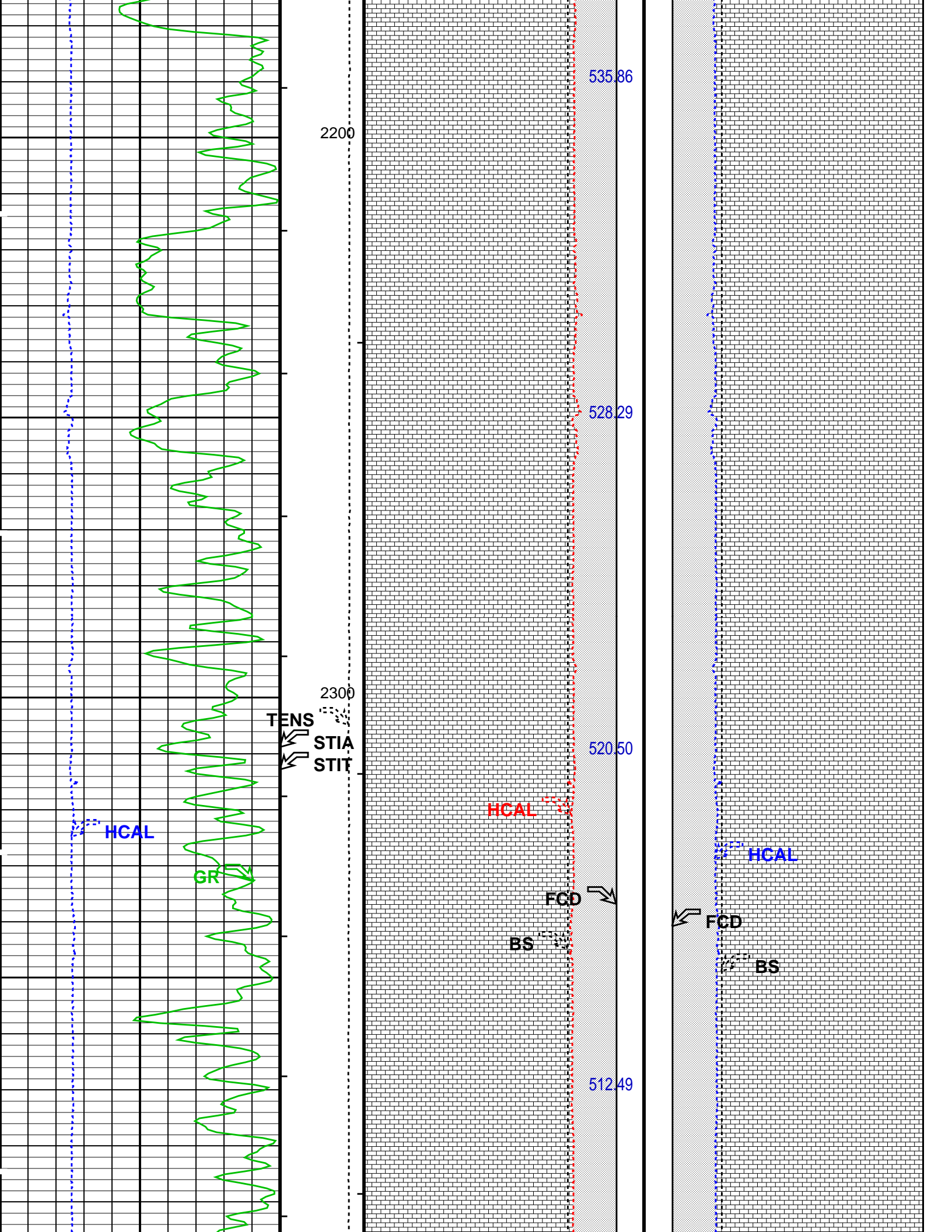


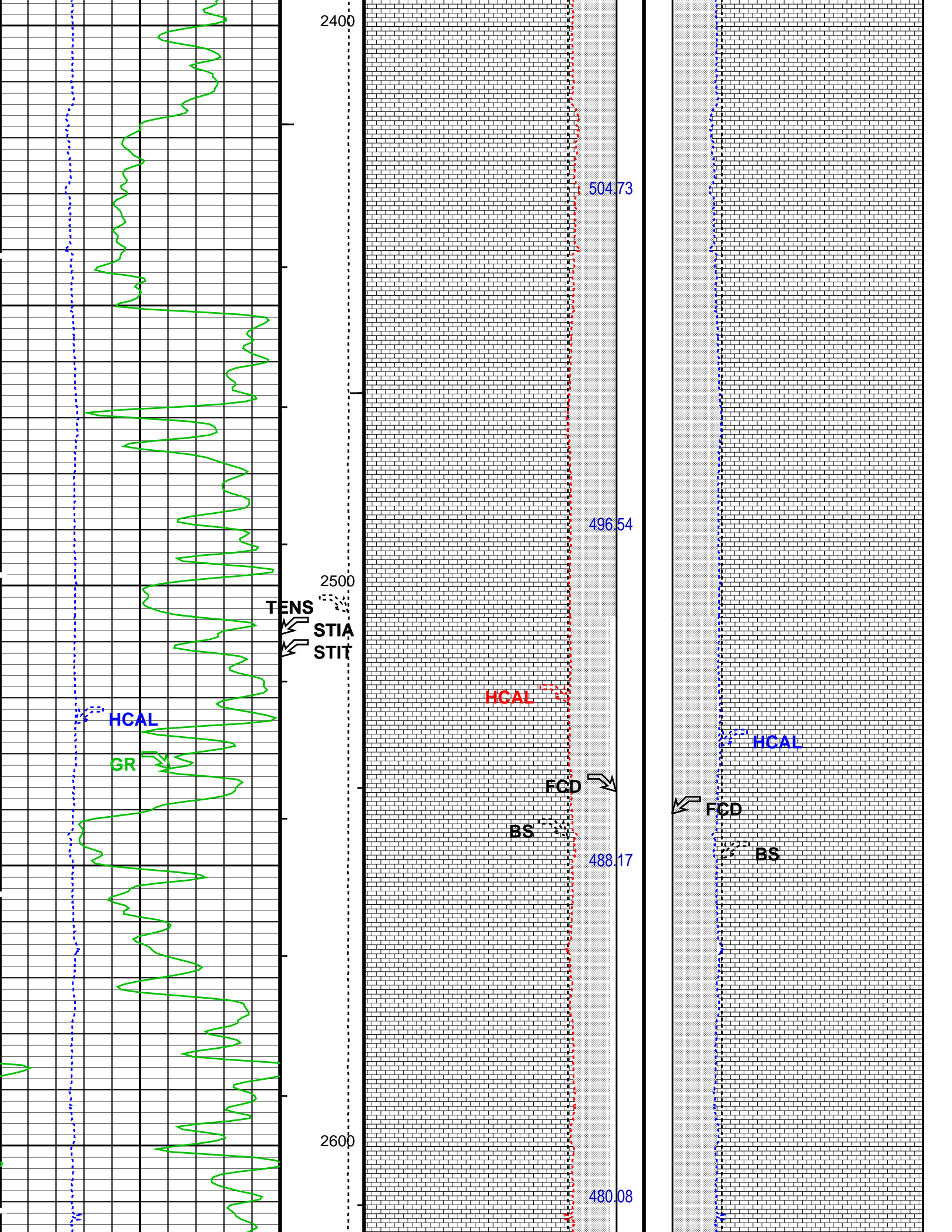


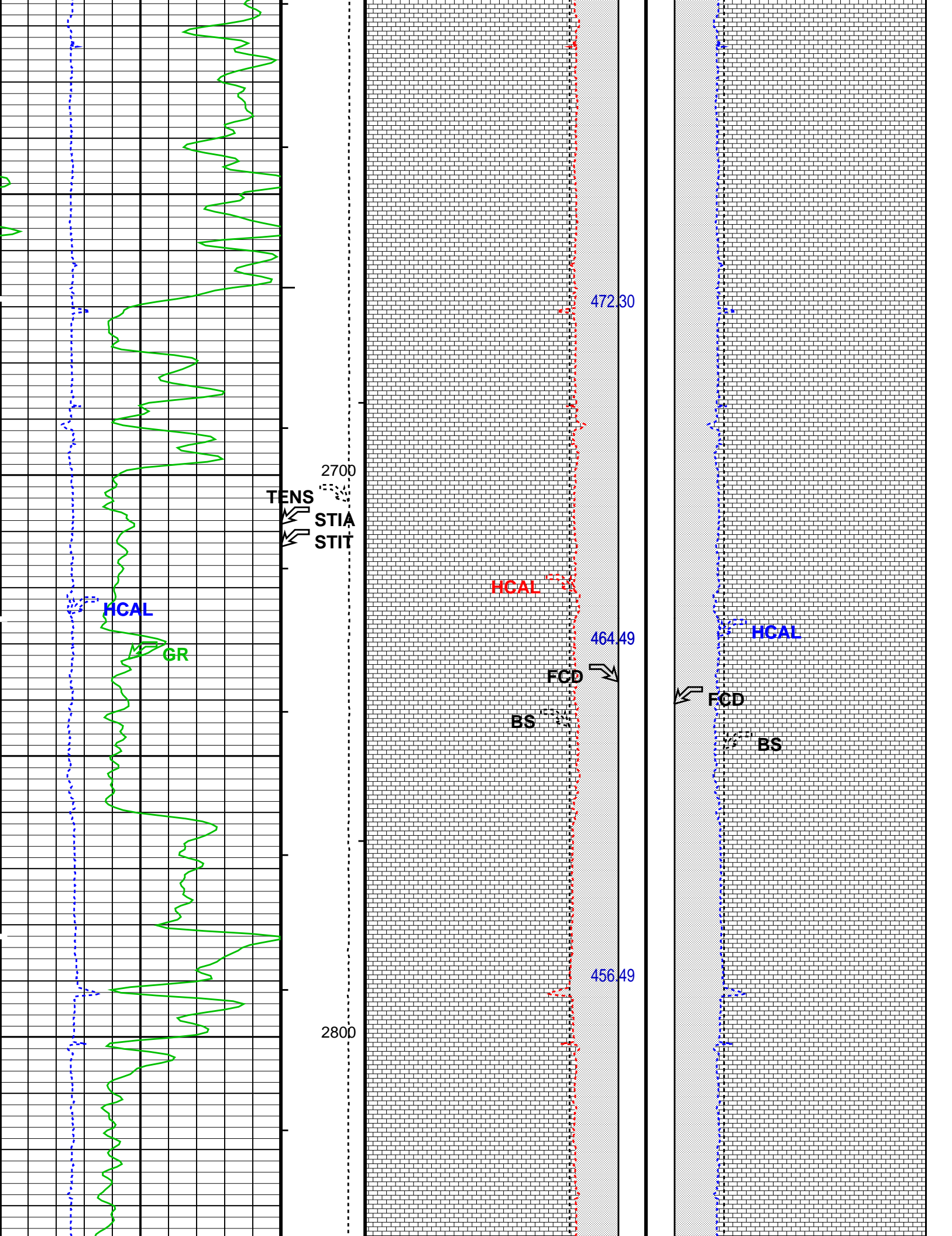


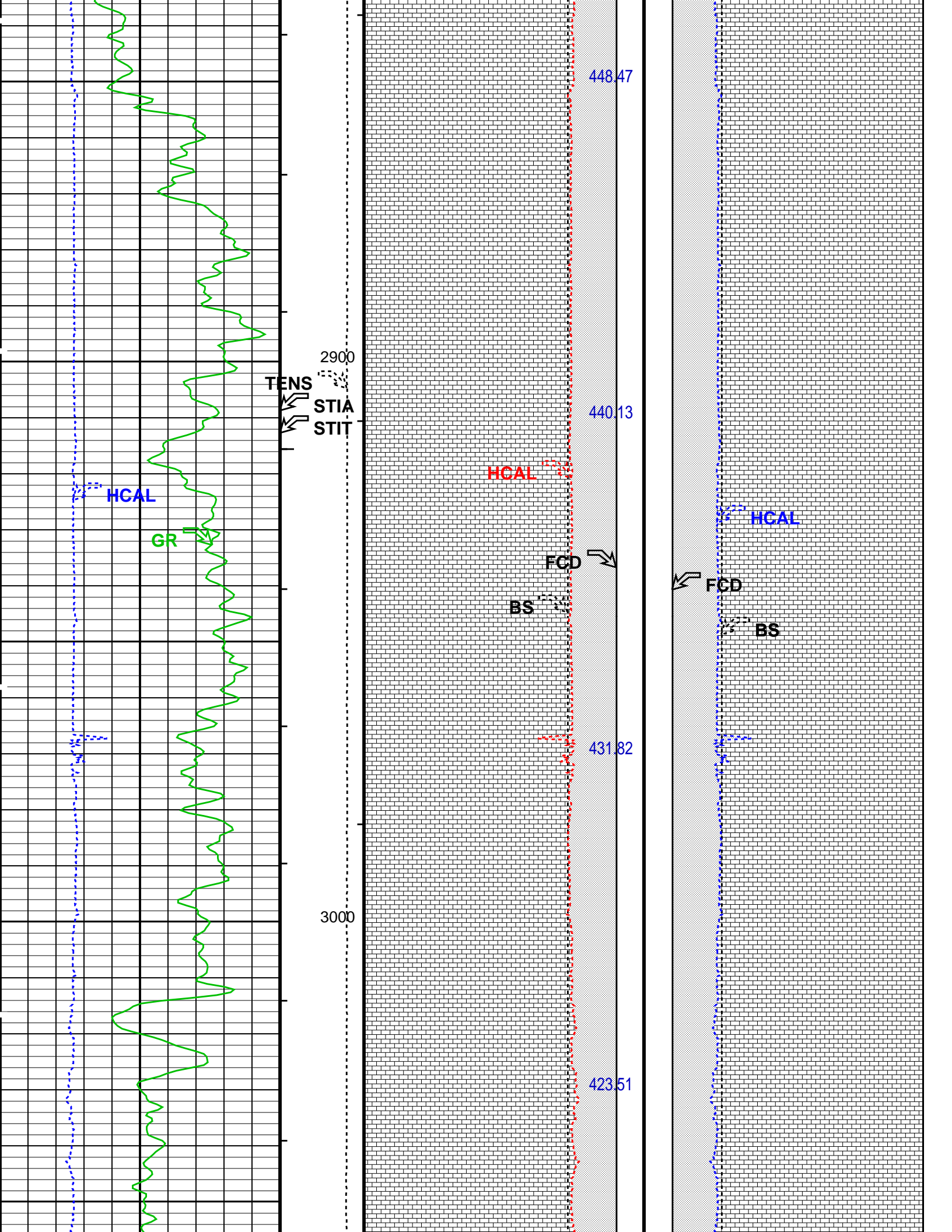


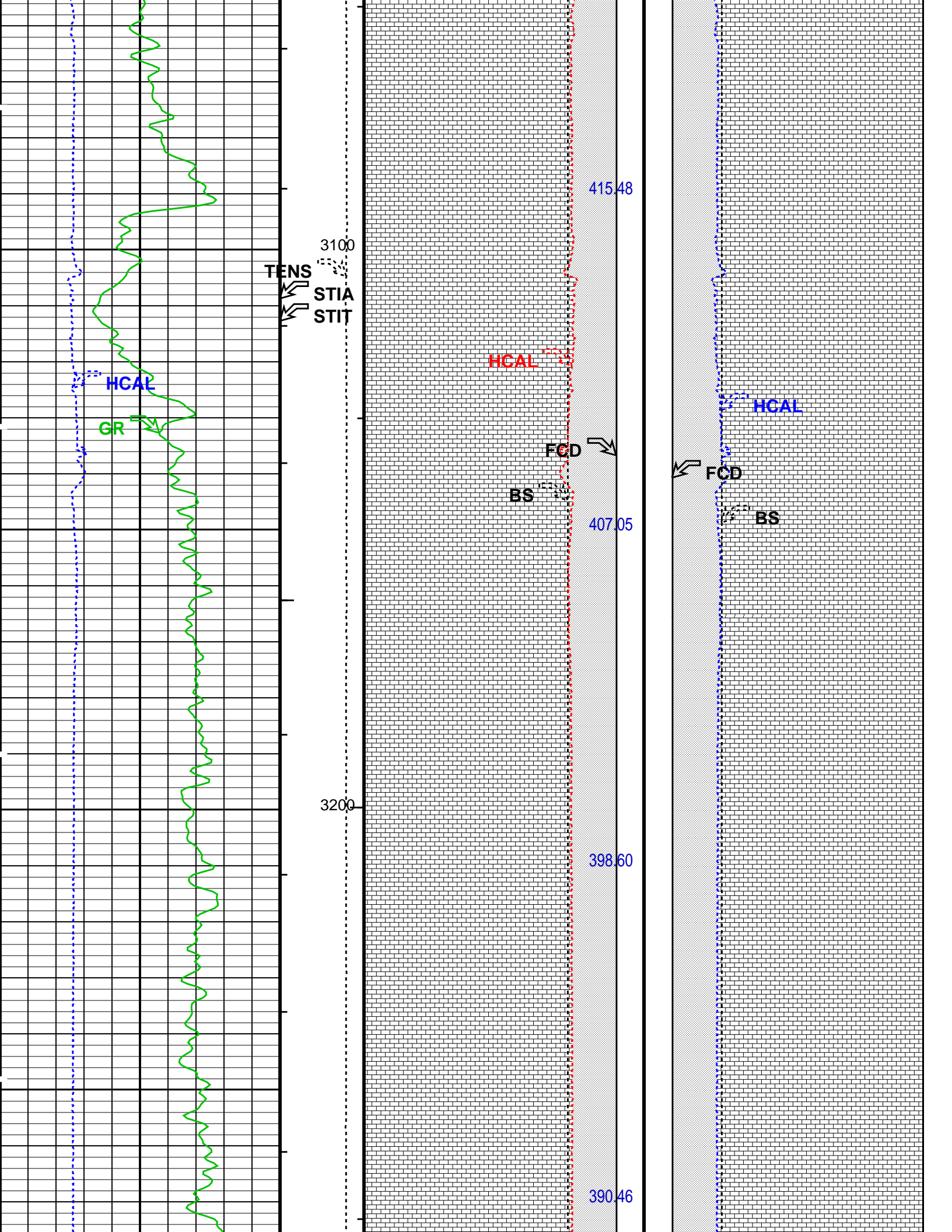


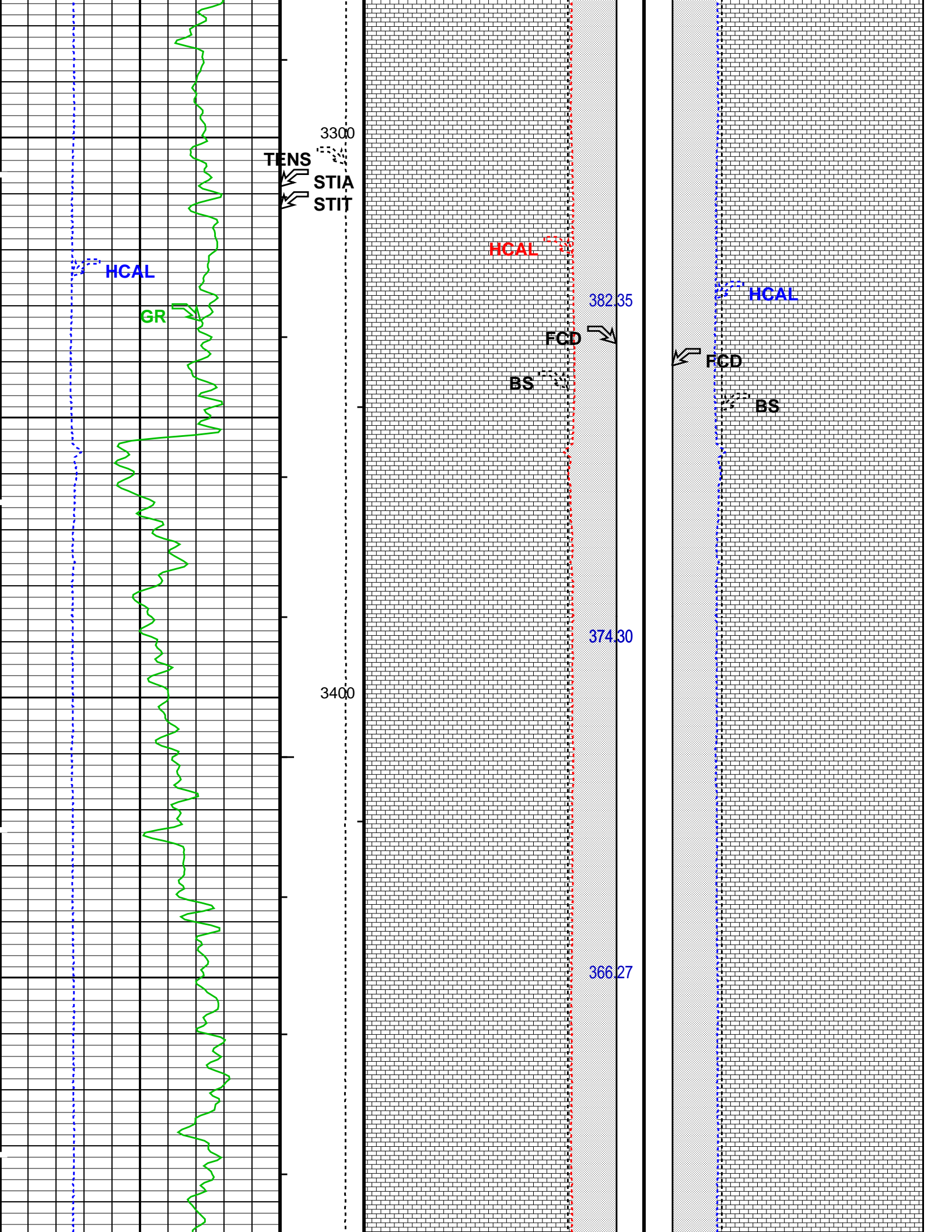


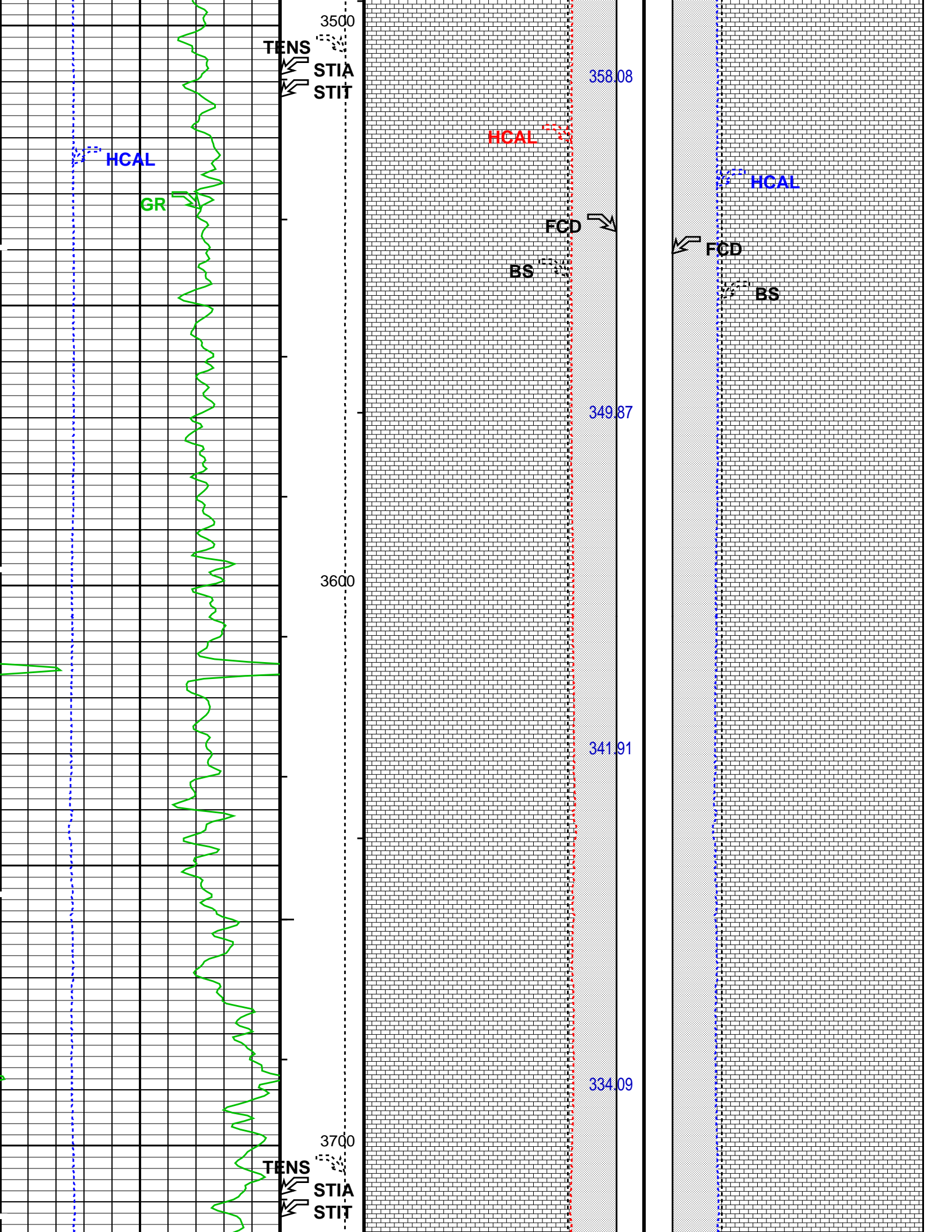


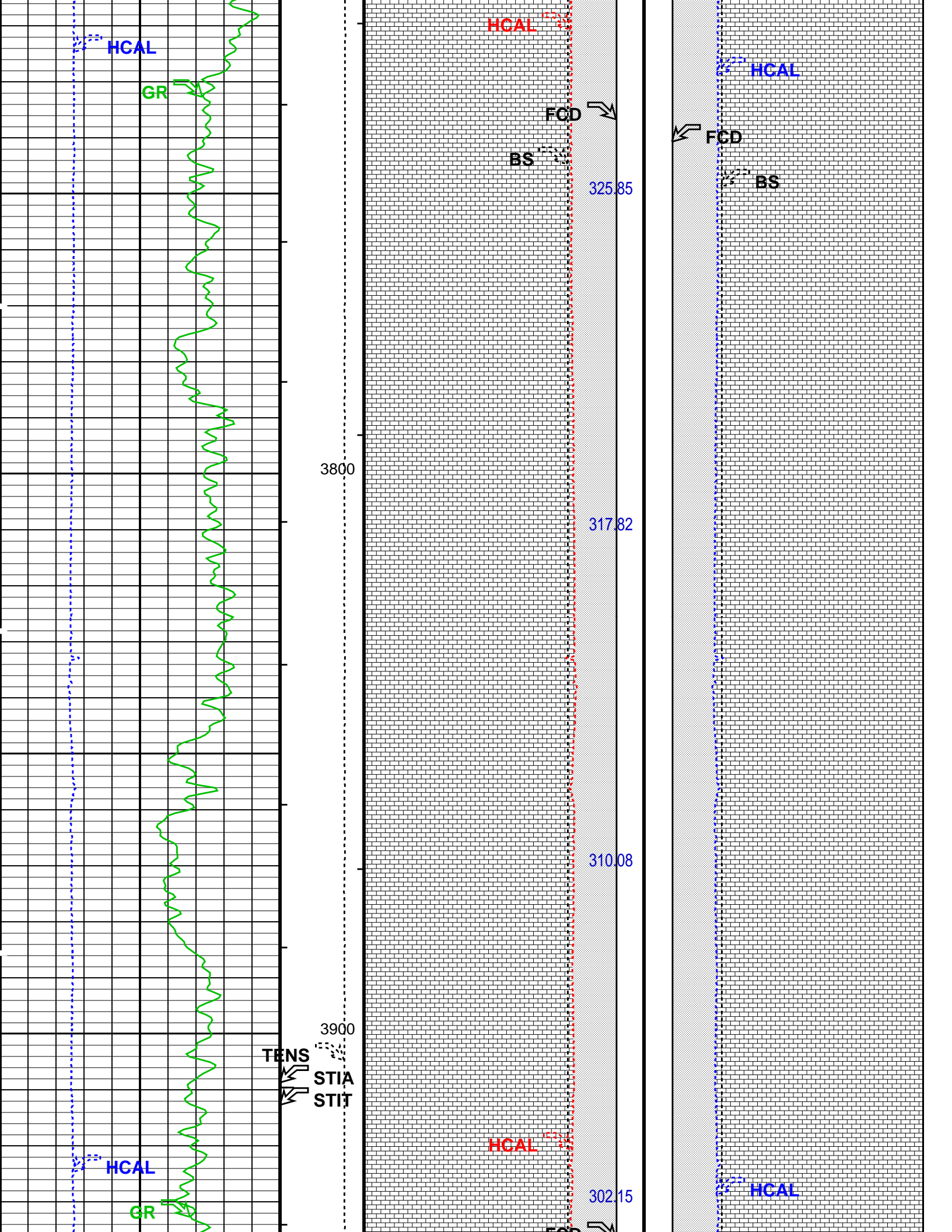


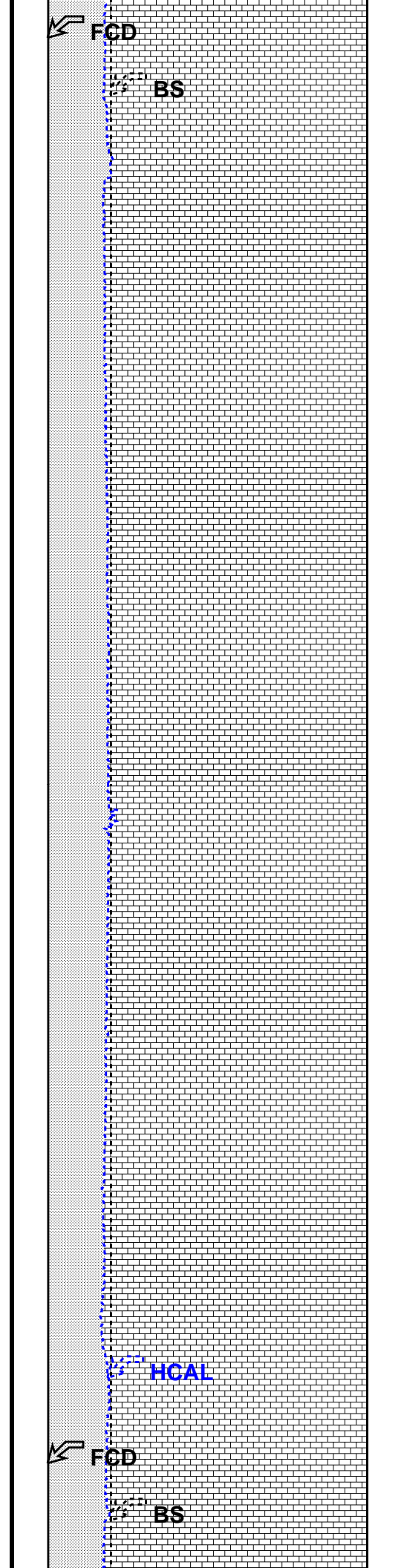
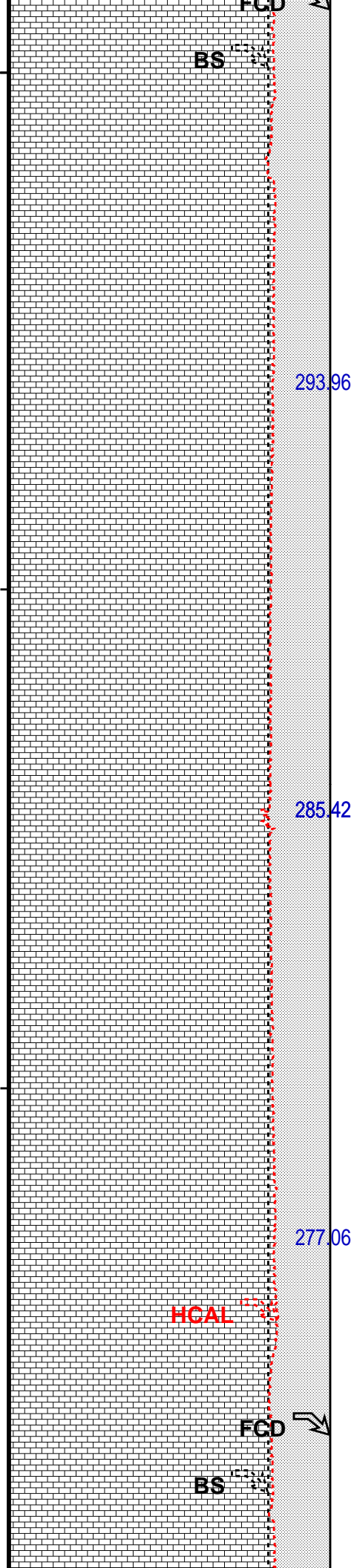
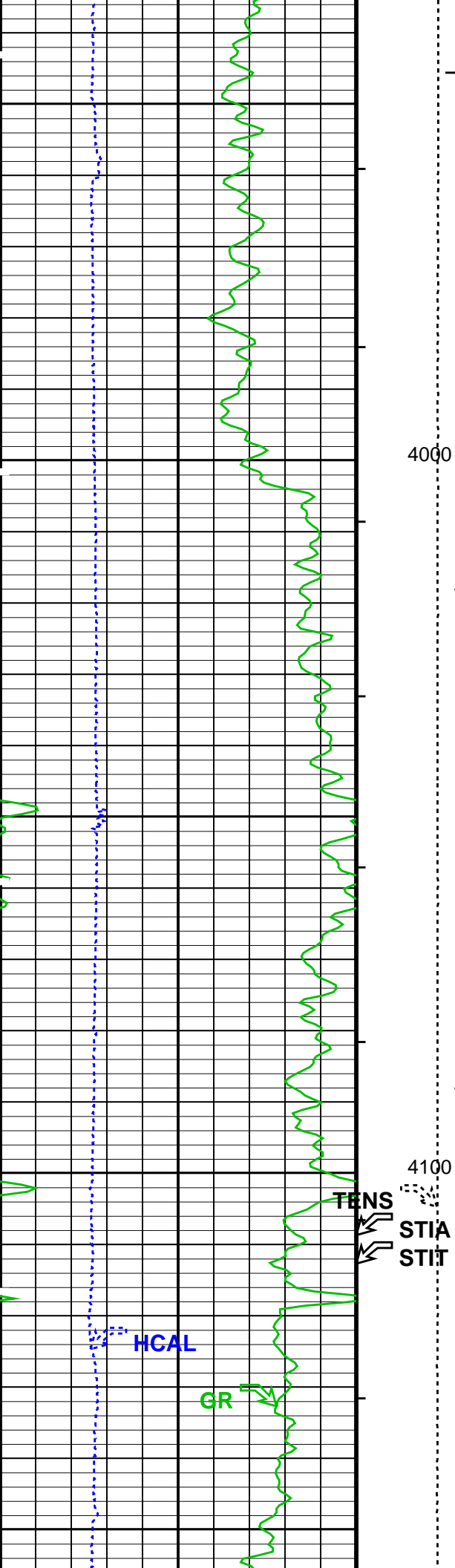


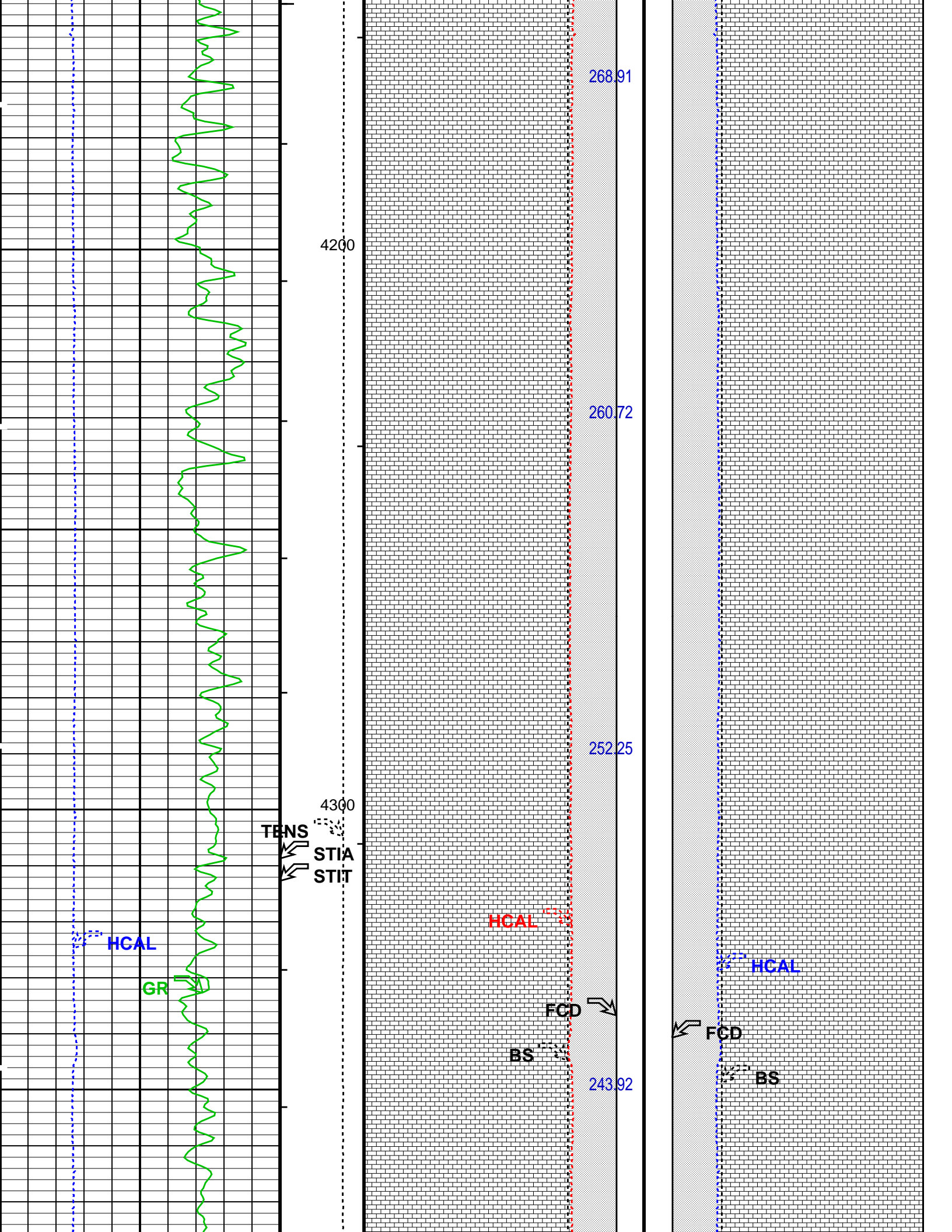


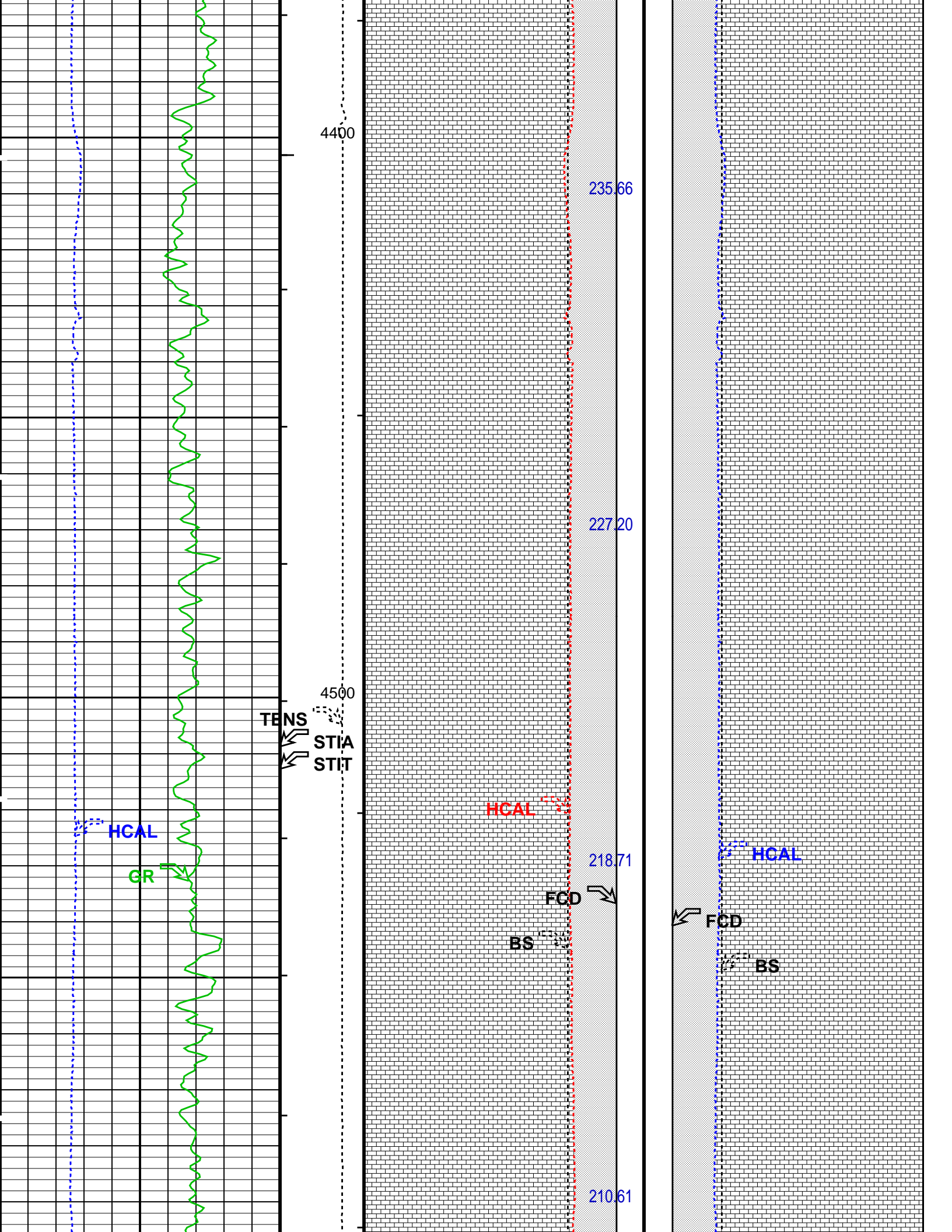


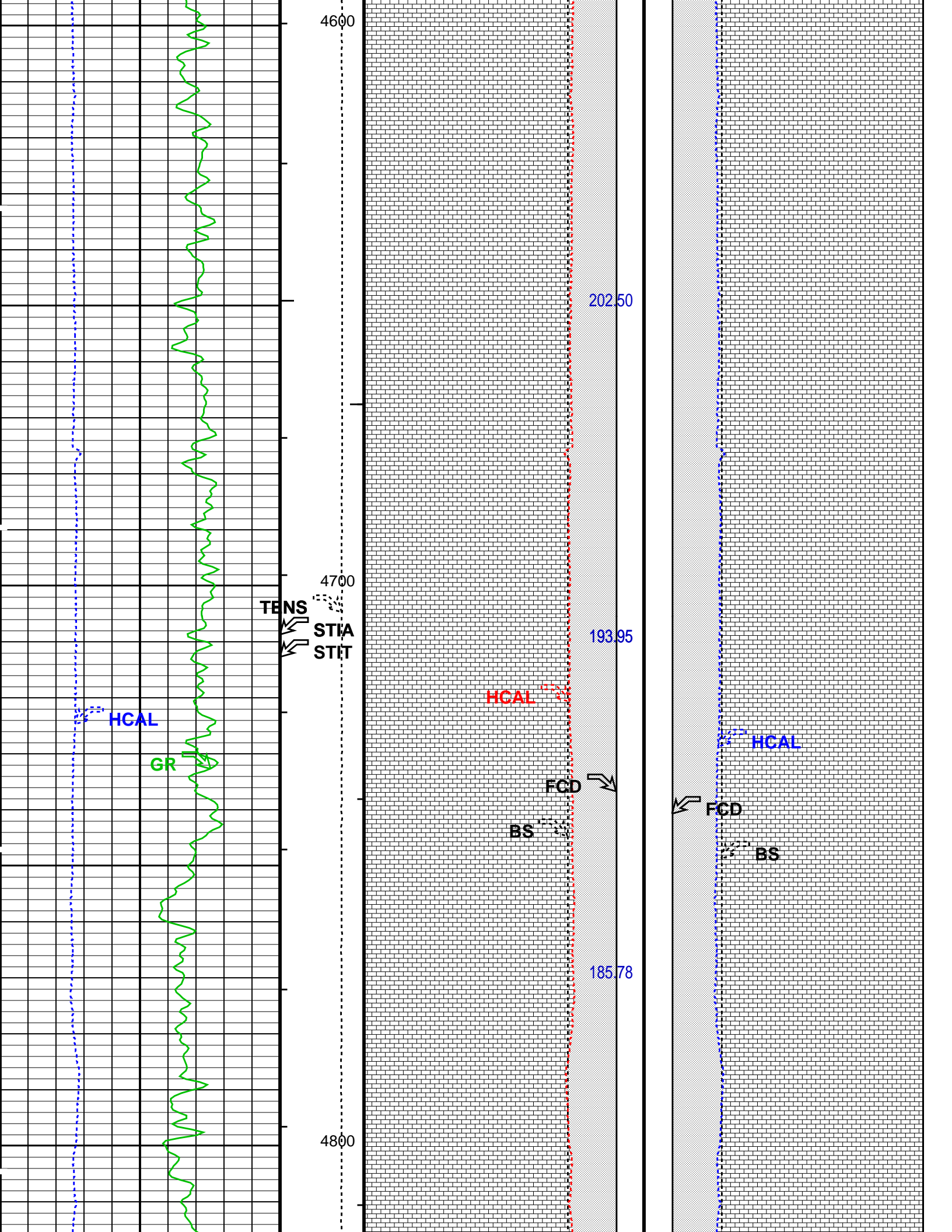


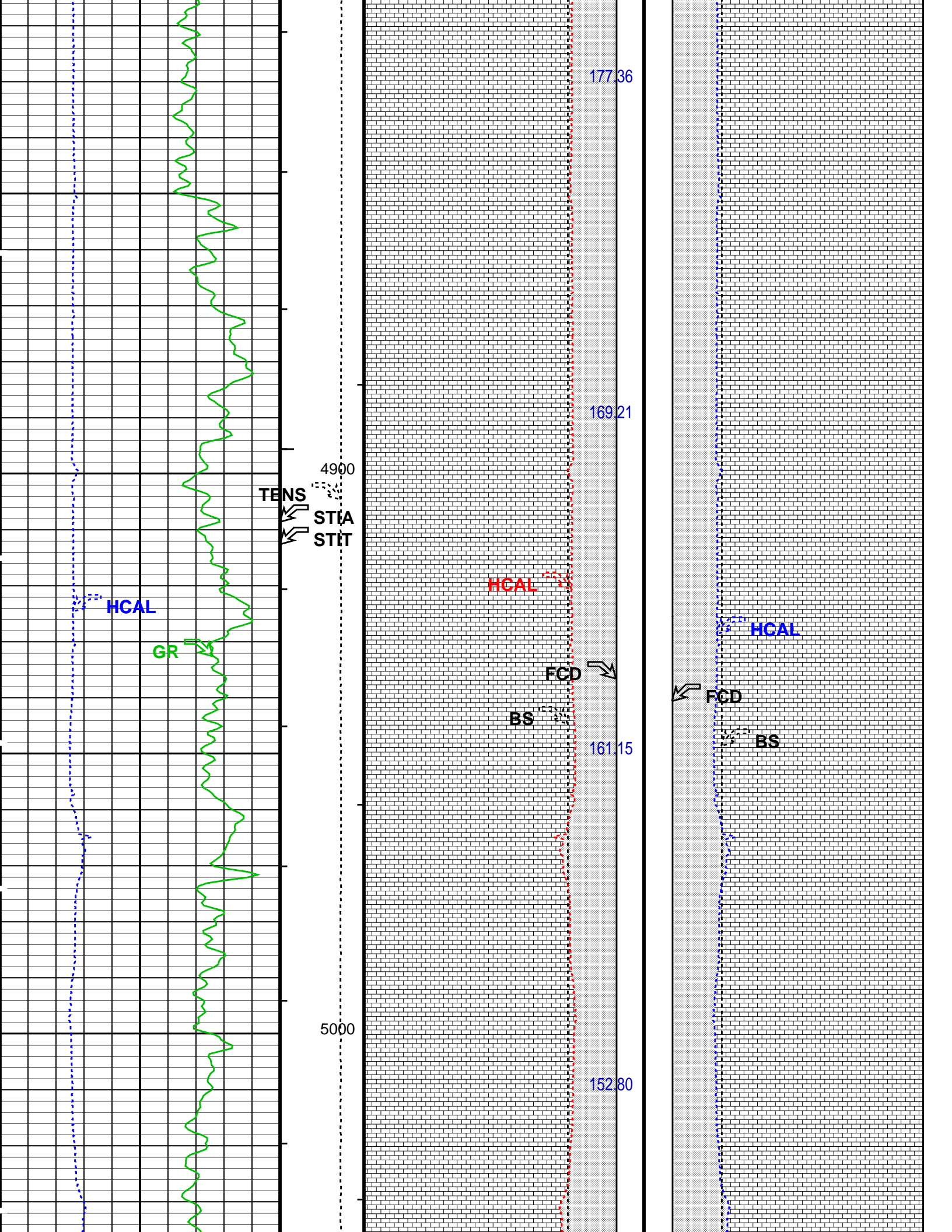


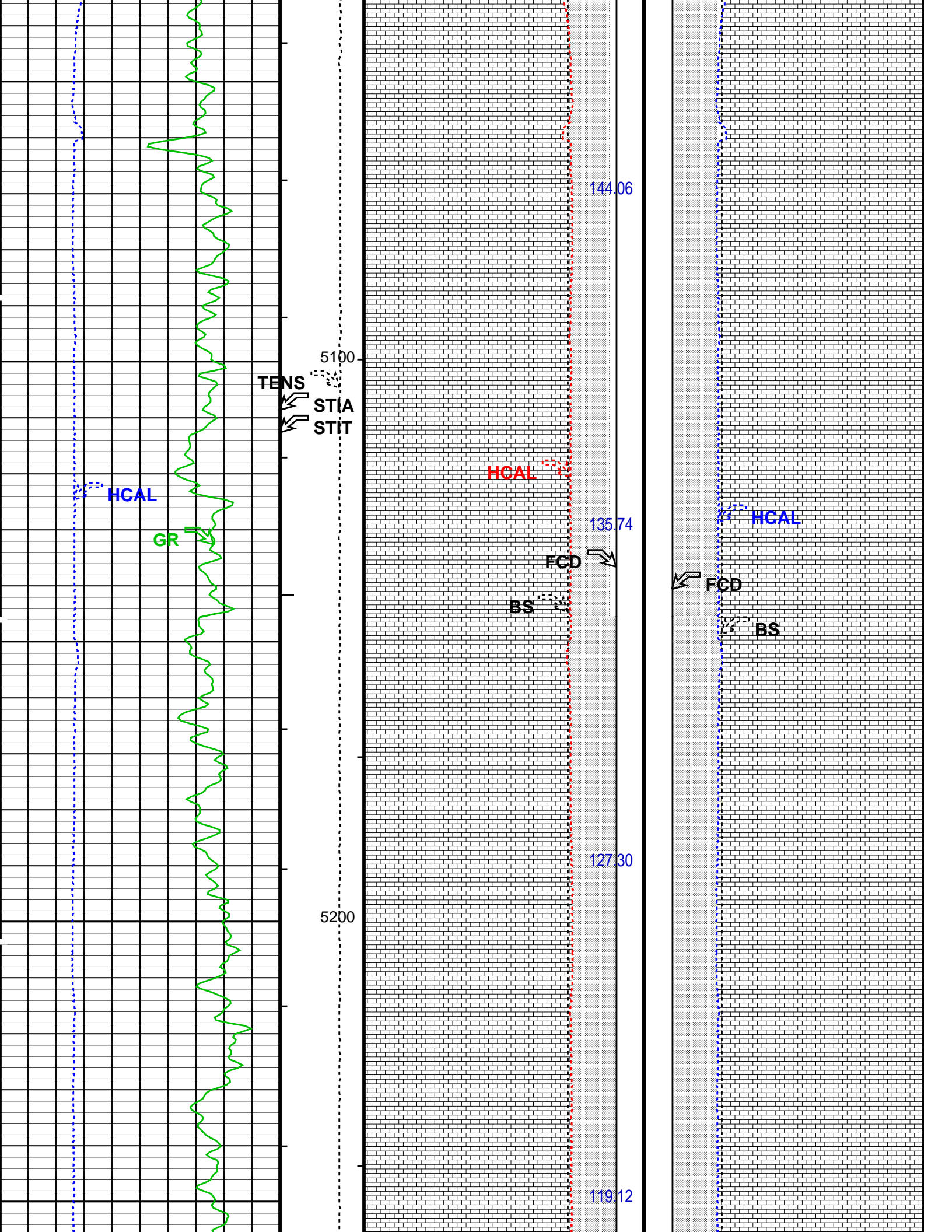


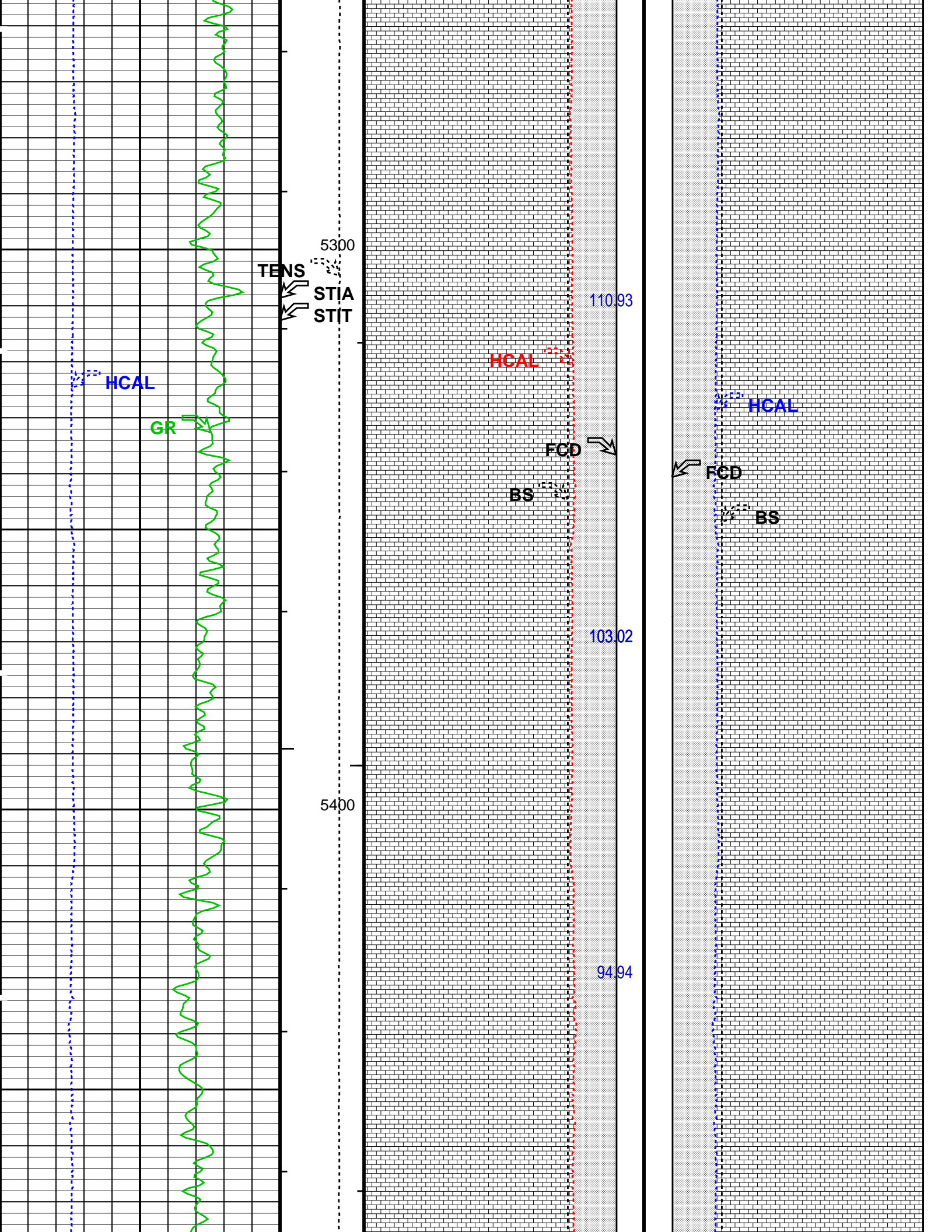


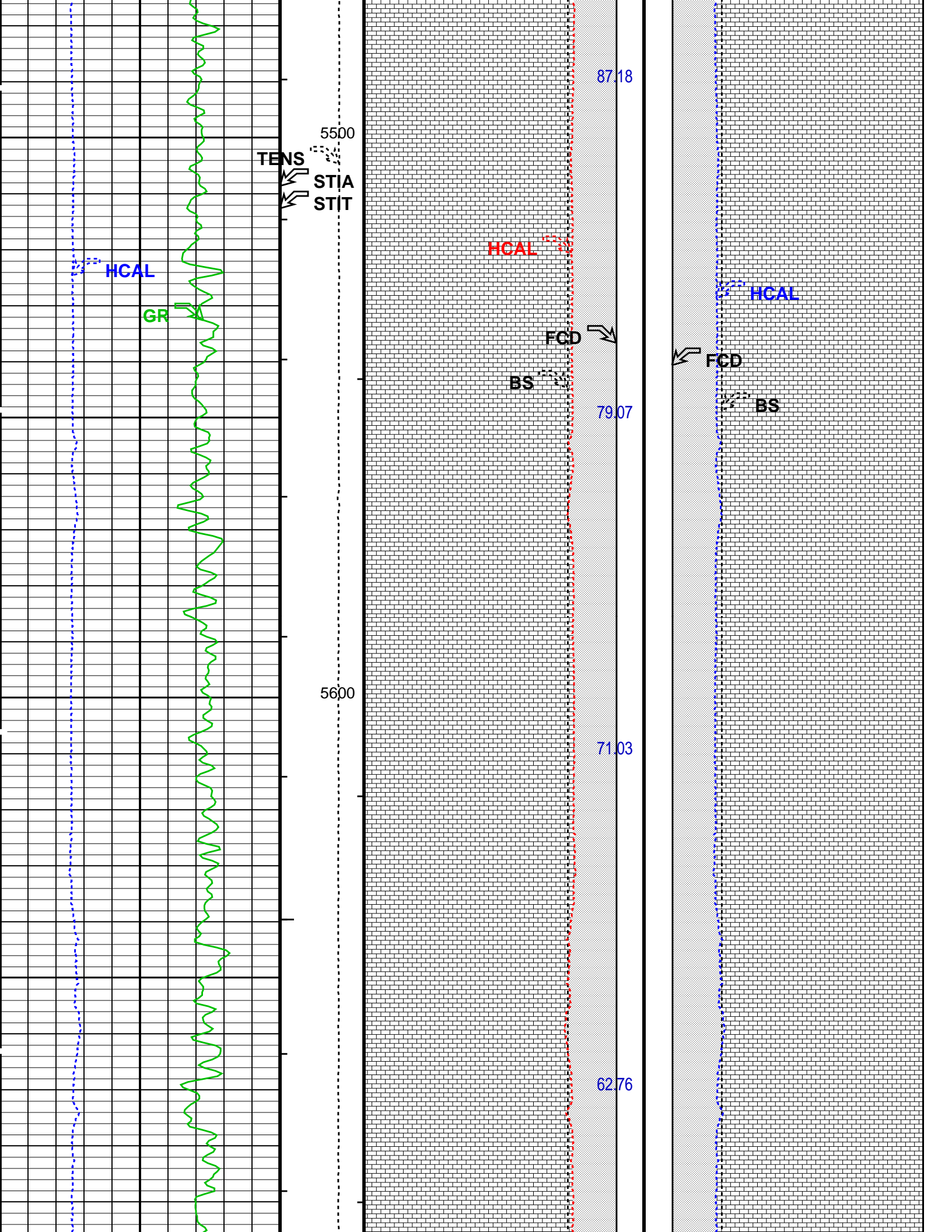


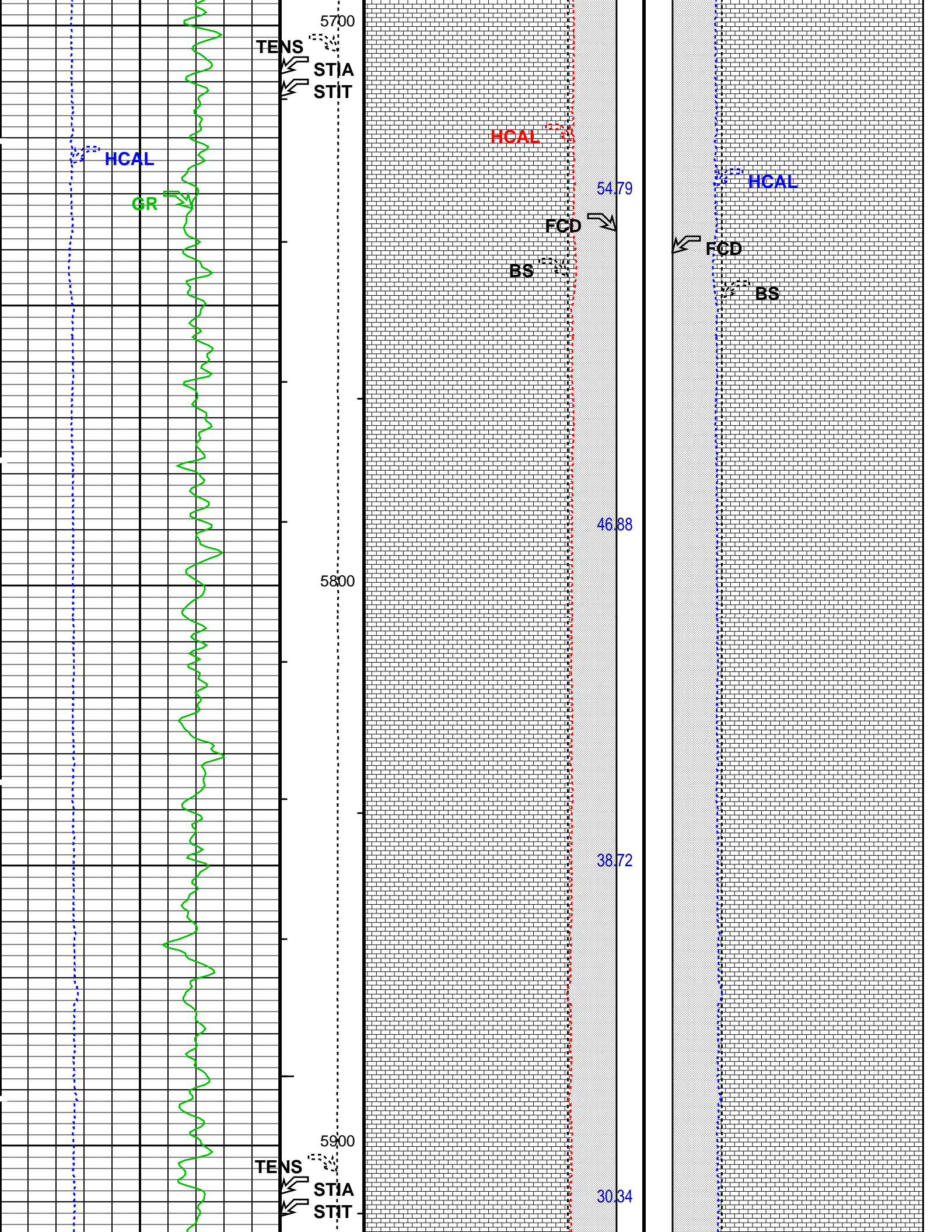


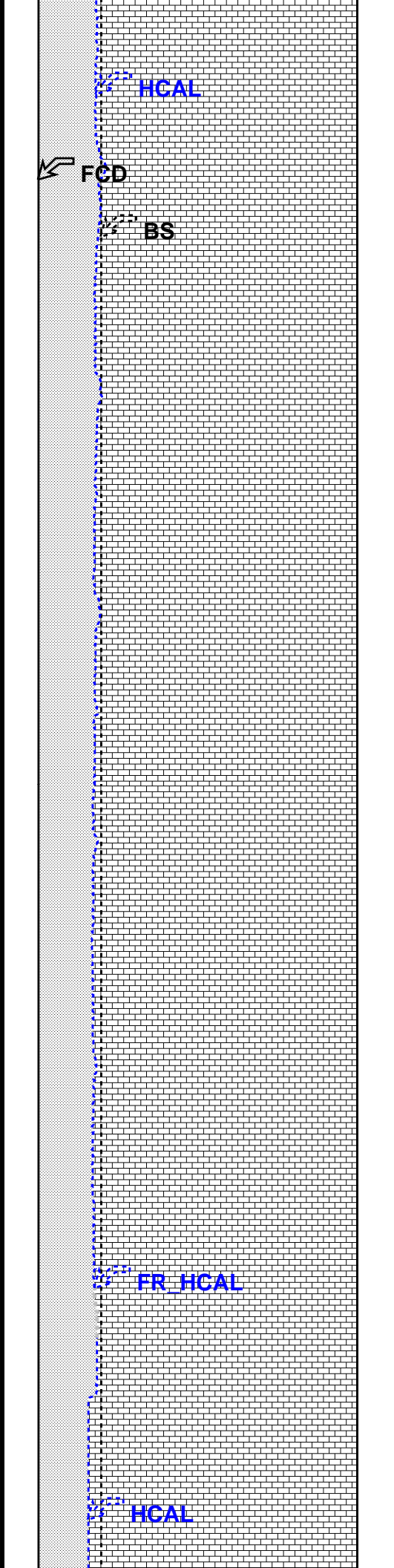
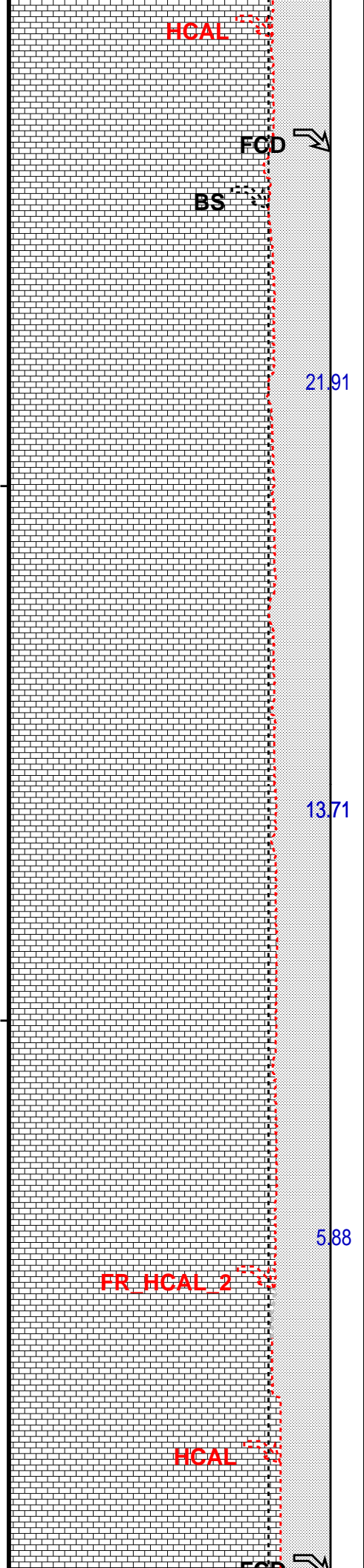
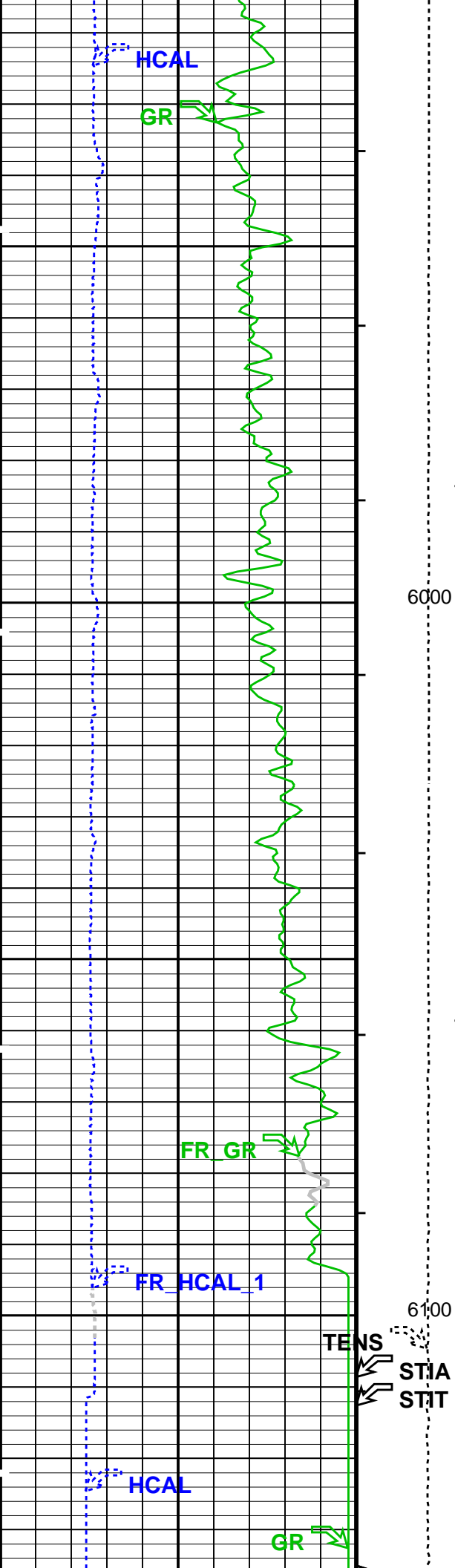


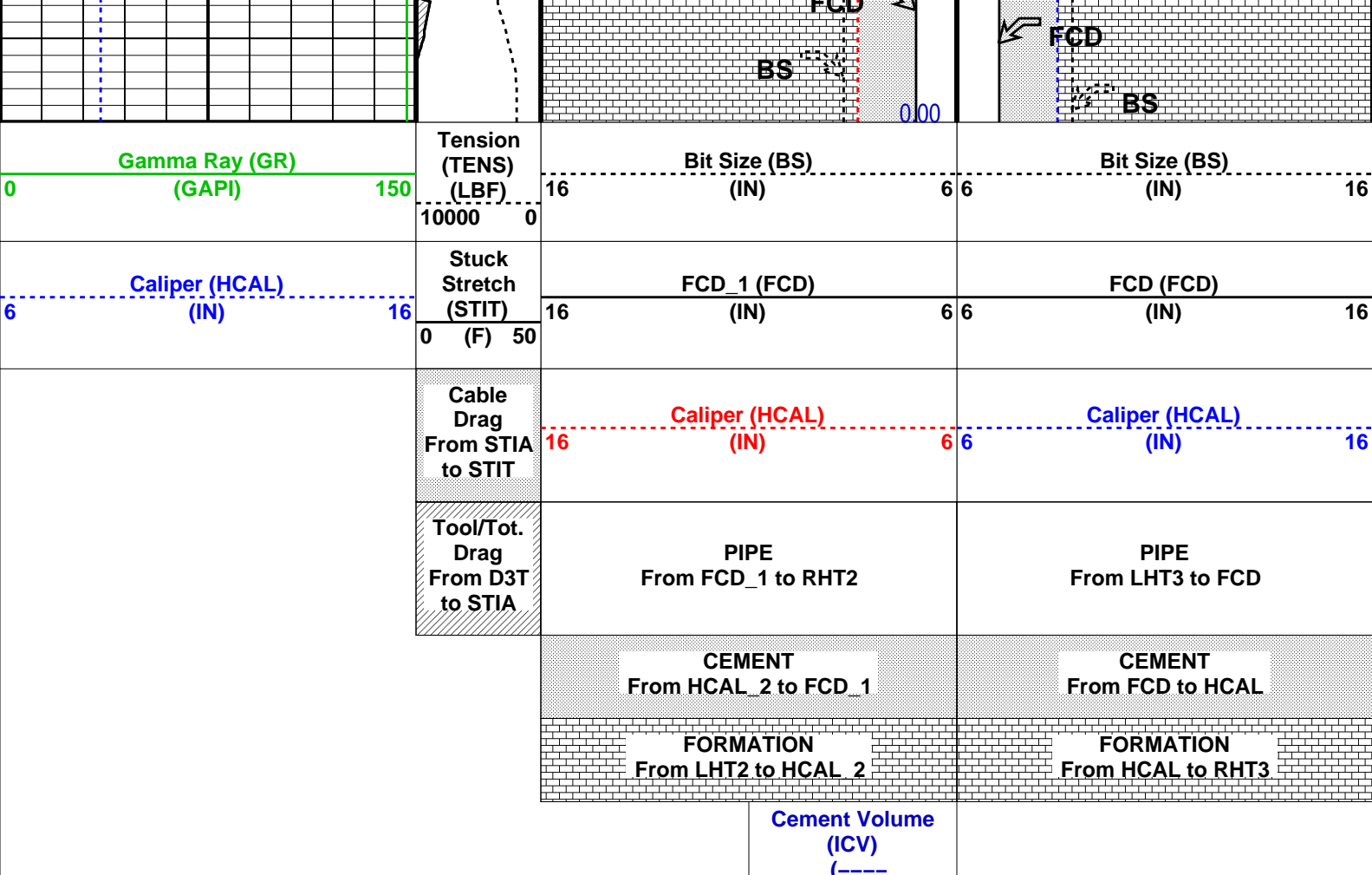












PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0 FT
TIMD	Along-hole depth of Tie-in Point	0 FT
TIVD	TVD of Tie-in Point	0 FT
HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	7 IN
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI
STKT	STI Stuck Threshold	2.5 FT
TDD	Total Depth - Driller	6136.00 FT
TDL	Total Depth - Logger	6136.00 FT
System and Miscellaneous		
BS	Bit Size	8.750 IN
DO	Depth Offset for Playback	2.5 FT
PP	Playback Processing	NORMAL
TD	Total Depth	6136 FT

Format: CEMENT_VOLUME Vertical Scale: 5" per 100'

Graphics File Created: 21-Jun-2011 04:06

OP System Version: 19C0-187

AIT-M	19C0-187	DSLT-FTB	19C0-187
HILTH-FTB	SRPC-4073-Q4_2010_OP19	DTC-H	19C0-187

Input DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_009LUP	FN:13	PRODUCER	21-Jun-2011 00:56	6147.0 FT	179.2 FT
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Output DLIS Files

DEFAULT

AIT_SONIC_TLD_MCFL_019PUP

FN:26

PRODUCER

21-Jun-2011 04:05

Company: **QUICKSILVER RESOURCES INC.**

Schlumberger

Well: **WEBER 32-4**

Field: **BELL ROCK**

County: **MOFFAT**

State: **COLORADO**

CALIPER PRINT

CEMENT VOLUME

GAMMA RAY