

Schlumberger

Company: **Whiting Oil and Gas Corporation**

Well: **Wildhorse 16-13L**

Field: **Wildcat**

County: **Weld**

State: **Colorado**

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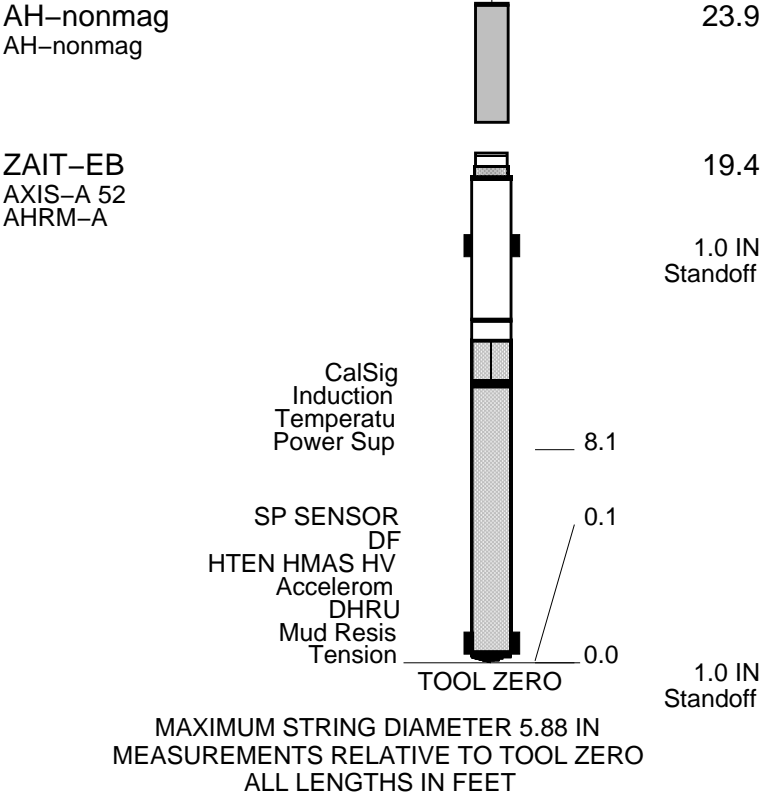
County: **Weld**

State: **Colorado**

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

Rig: Cade 21	
Crew: Alonzo Carrera, David Marquez	
<div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>CCN1-00014</div> <div>19C2-270</div> <div>200 ft</div> </div>	<div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div>
<div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div>	<div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div>
EQUIPMENT DESCRIPTION	
RUN 1	RUN 2
<div>SURFACE EQUIPMENT</div> <div>WITM (DTS)-A</div> <div>GSR-U/Y</div> <div>NCT-B</div> <div>CNB-AB</div> <div>NCS-VB</div>	
<div>DOWNHOLE EQUIPMENT</div> <div> <div> <div>LEH-QT</div> <div>LEH-QT</div> <div> <div>DTC-H</div> <div>ECH-KC</div> <div>DTCH0-A</div> </div> <div> <div>HILTH-FTB</div> <div>HGNSD-H</div> <div>HMCA-H</div> <div>HGNH</div> <div>NLS-KL</div> <div>NSR-F 2554</div> <div>HACCZ-H 6991</div> <div>HCNT-H</div> <div>HGR</div> <div>HRCC-H</div> <div>HRMS-H</div> <div>HRGD-H</div> <div>GLS-VJ 5240</div> <div>MCFL Device-H</div> <div>HILT Nucl. LS-H 28910</div> <div>HILT Nucl. SS-H 42767</div> <div>HILT Nucl. BS-H 42767</div> <div>BOW-SPR</div> <div>NPV-N</div> </div> <div> <div>CTEM</div> <div>TelStatus</div> <div>ToolStatu</div> <div>HGNS HTEM</div> <div>HMCA</div> <div>HGNS Gamm</div> <div>HGNS Neut</div> <div>HGNS Neut</div> <div>HGNS sens</div> <div>MCFL</div> <div>HILT cali</div> <div>HRDD-LS</div> <div>HRDD-SS</div> <div>HRDD-BS</div> </div> <div> <div>59.5</div> <div>55.6</div> <div>53.5</div> <div>53.5</div> <div>52.8</div> <div>47.0</div> <div>46.5</div> <div>44.1</div> <div>40.1</div> <div>34.7</div> <div>34.2</div> <div>33.8</div> <div>31.9</div> <div>29.9</div> <div>27.9</div> </div> </div> </div>	



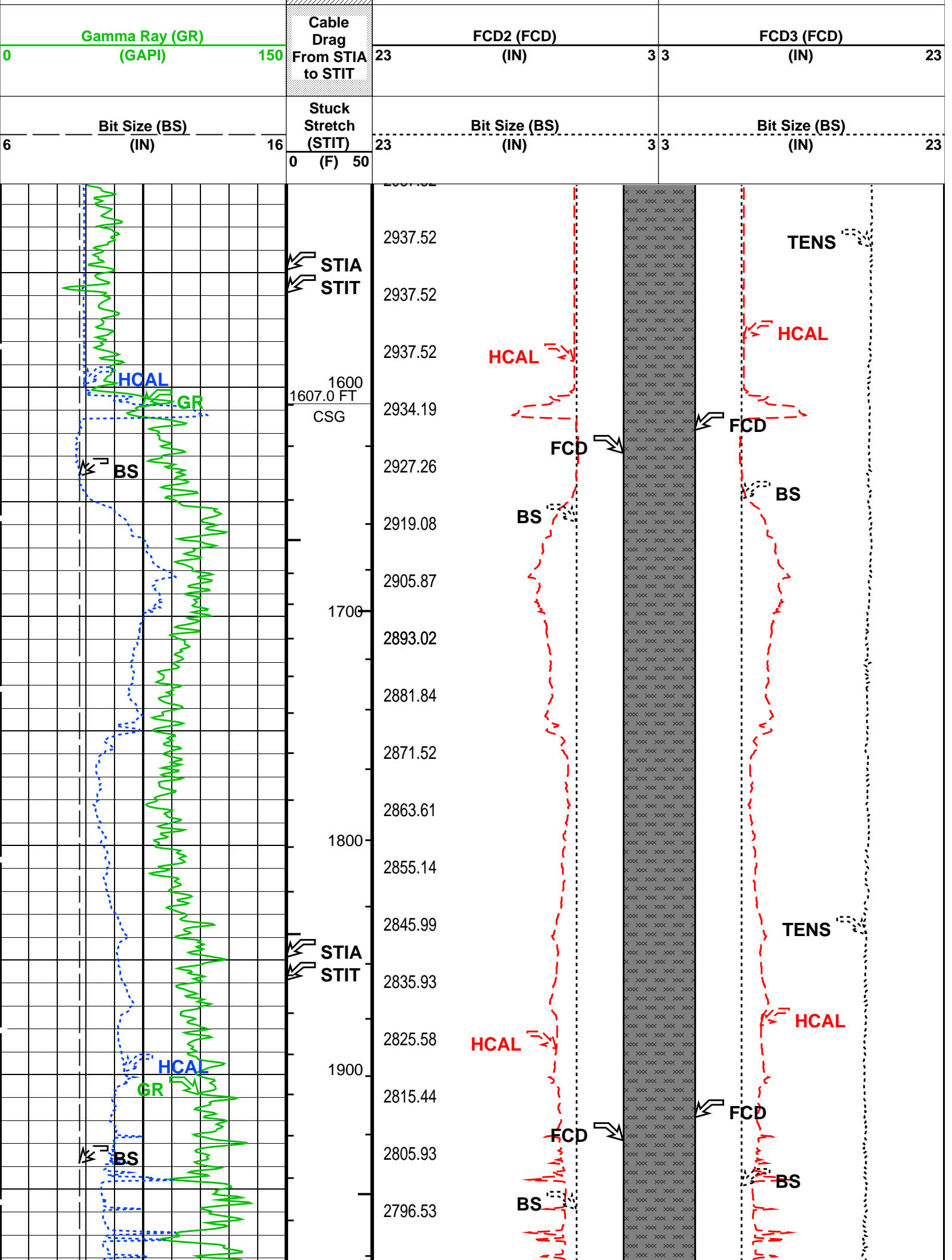
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Output DLIS Files						
DEFAULT	AIT_IS_TLD_MCFL_CNL_024PUP	FN:25	PRODUCER	02-Jul-2013 23:19	10062.0 FT	1511.0 FT
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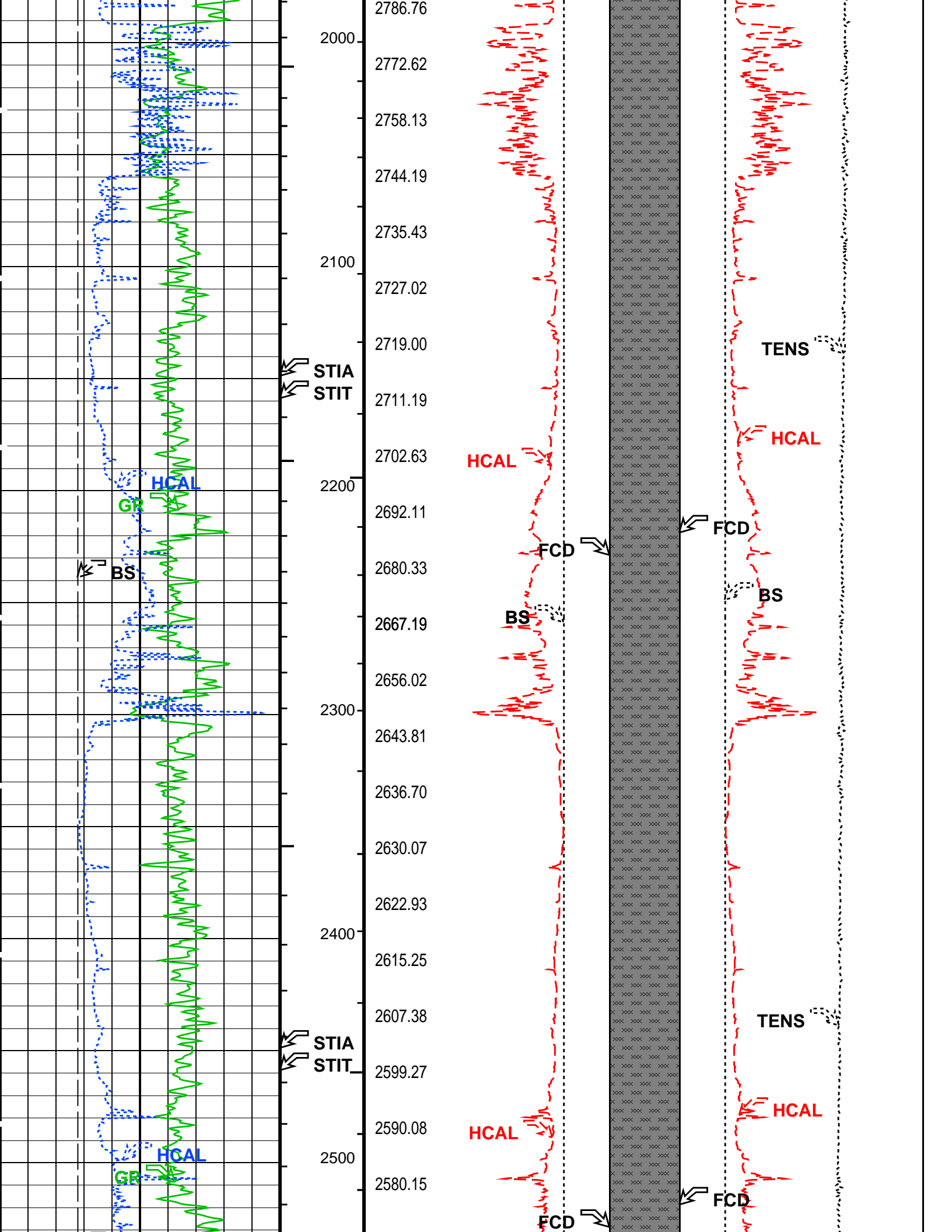
Integrated Hole/Cement Volume Summary						
Hole Volume = 4330.51 F3						
Cement Volume = 2937.52 F3 (assuming 5.50 IN casing O.D.)						
Computed from 10050.0 FT to 1607.0 FT using data channel(s) HCAL						

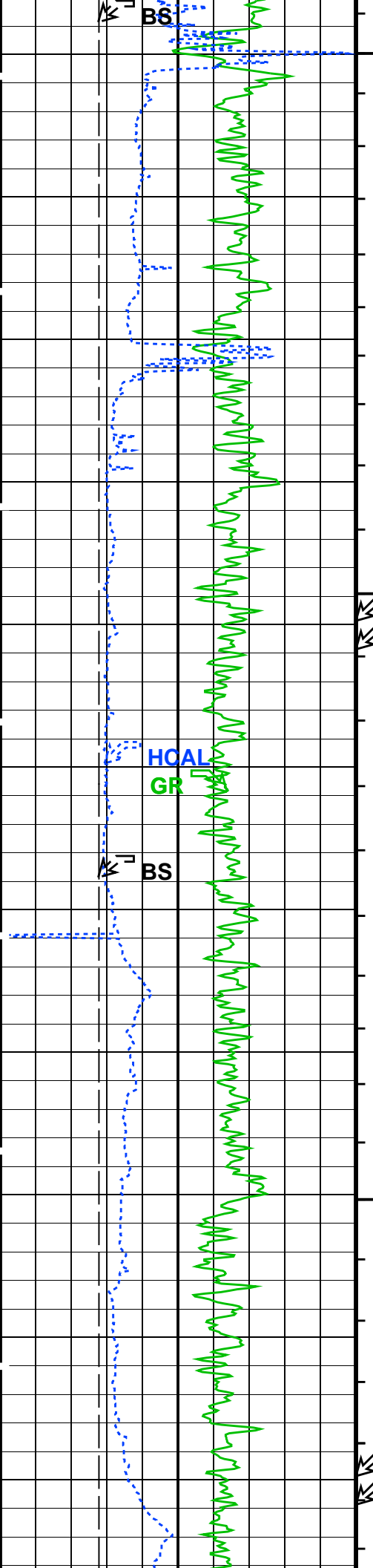
OP System Version: 19C2-270						
ZAIT-EB	19C2-270		GPIT-F	19C2-270		
HILTH-FTB	19C2-270		DTC-H	19C2-270		

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						

FCD2 - FCD3 From FCD2 to FCD3						
		Cement Volume (ICV) (F3)		Tension (TENS) (LBF)		
				6000		0
		Tool/Tot. Drag From D3T to STIA				
HILT Caliper (HCAL) (IN)			HILT Caliper (HCAL) (IN)		HILT Caliper (HCAL) (IN)	
6	16	23	33	23		





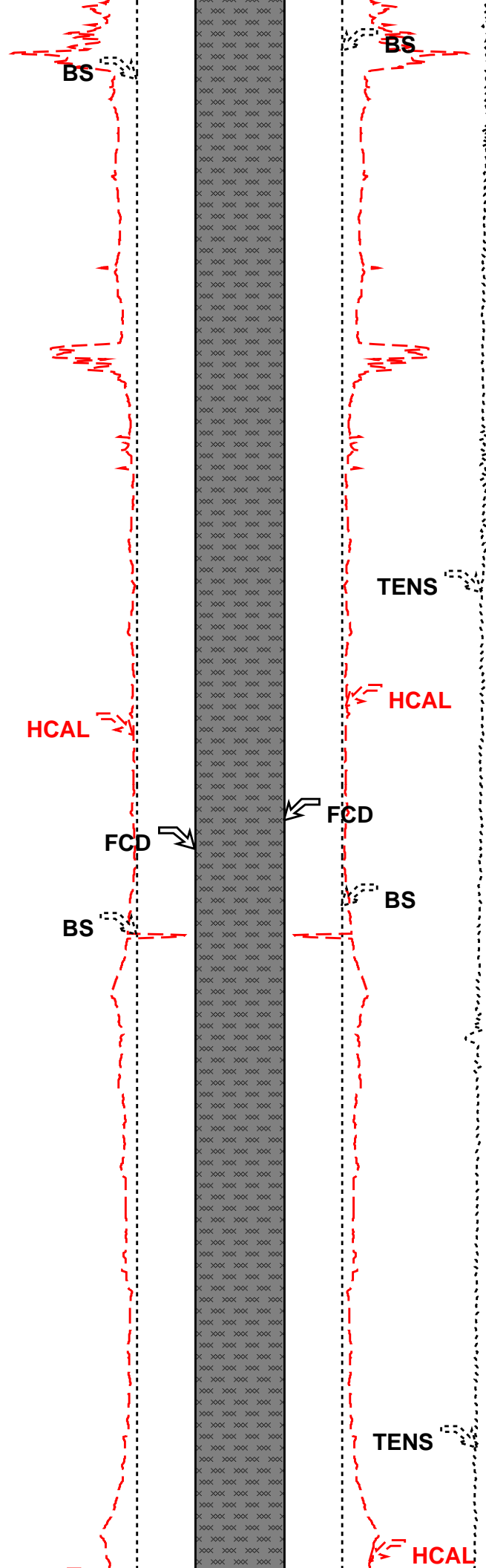


2569.51
2555.45
2546.11
2600
2536.98
2527.85
2516.43
2508.61
2700
2501.44
2494.28
2487.21
2480.28
2800
2473.46
2466.66
2459.65
2450.67
2900
2441.99
2433.75
2425.69
2417.90
3000
2410.51
2402.97
2394.31

STIA
STIT

STIA
STIT

2569.51
2555.45
2546.11
2536.98
2527.85
2516.43
2508.61
2501.44
2494.28
2487.21
2480.28
2473.46
2466.66
2459.65
2450.67
2441.99
2433.75
2425.69
2417.90
2410.51
2402.97
2394.31



BS

BS

TENS

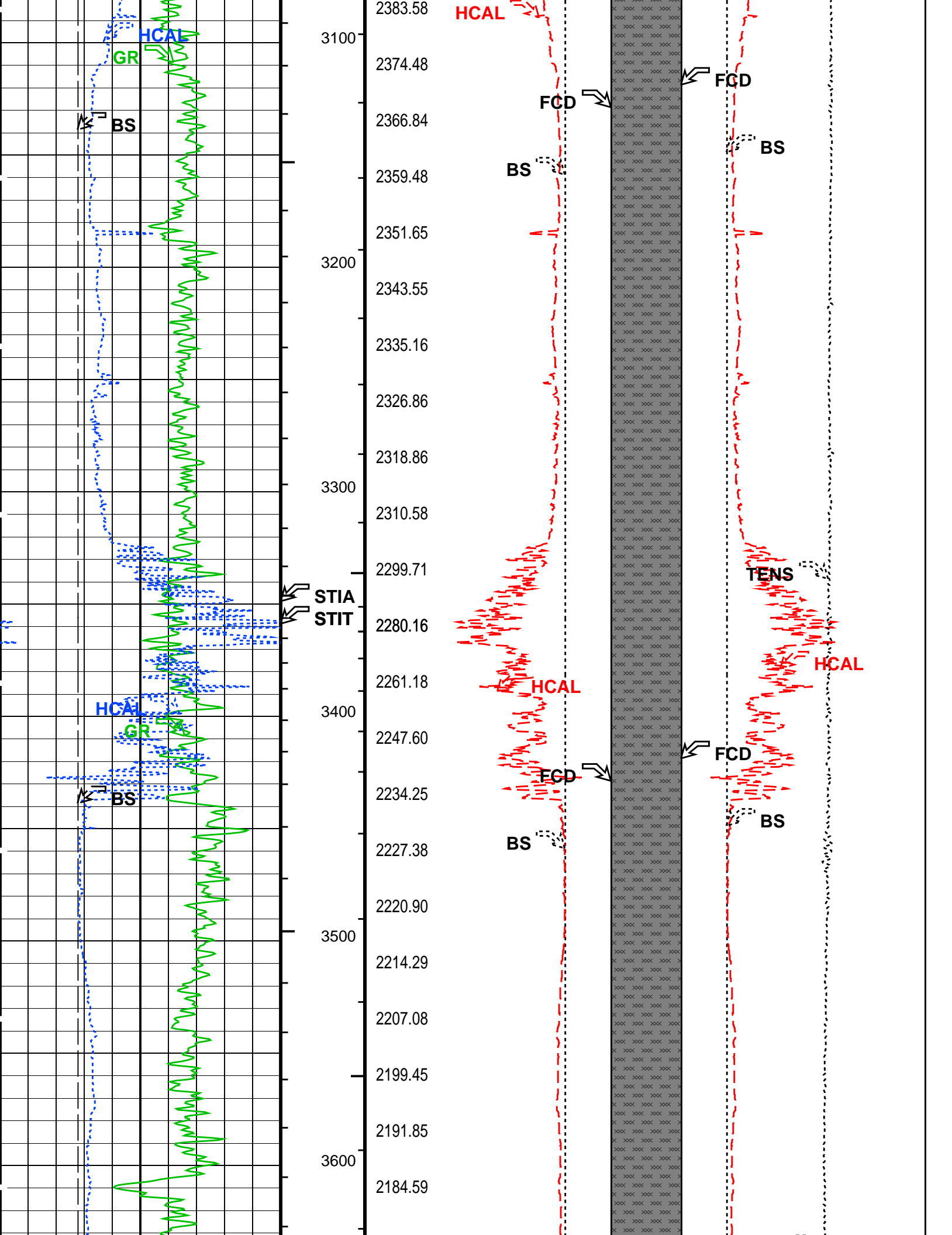
HCAL

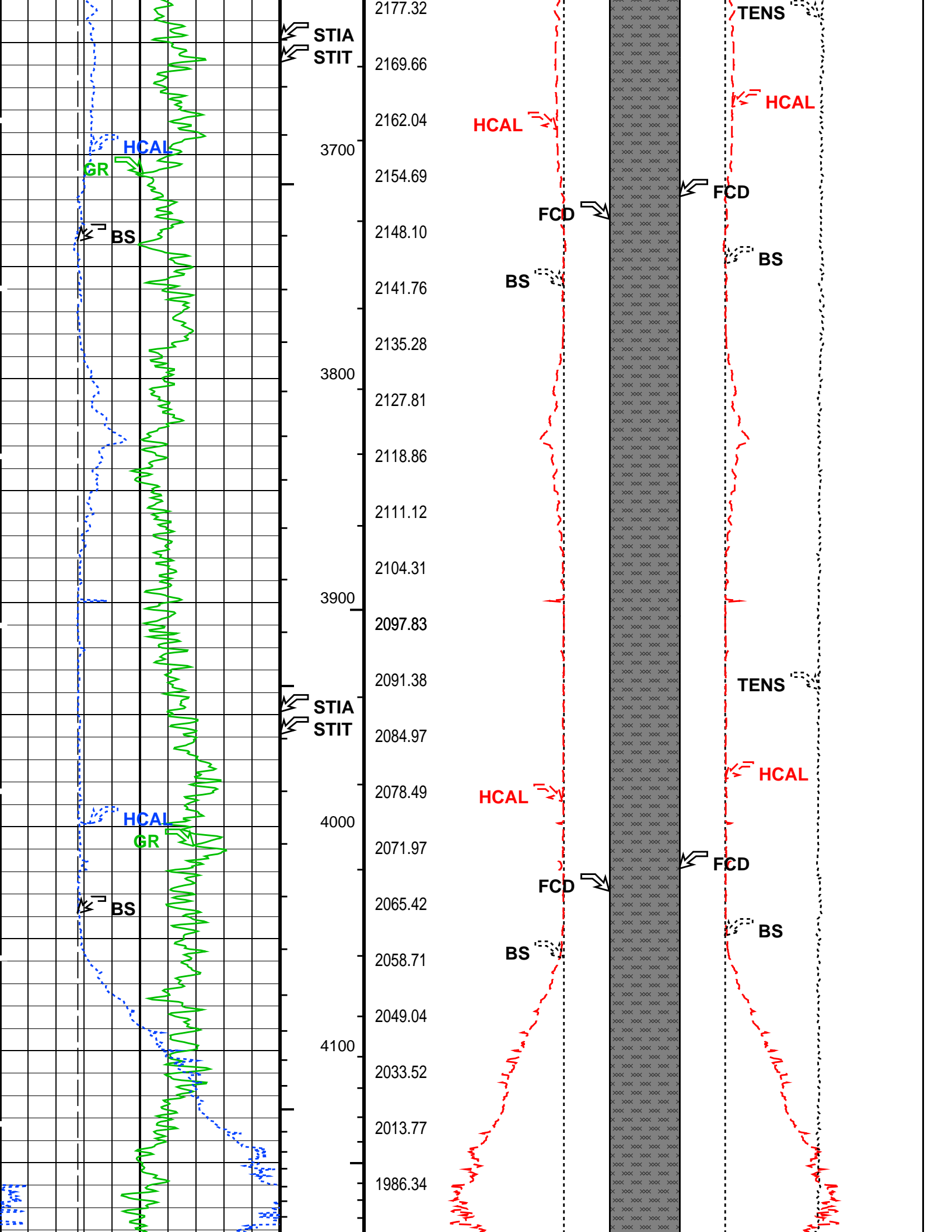
FCD

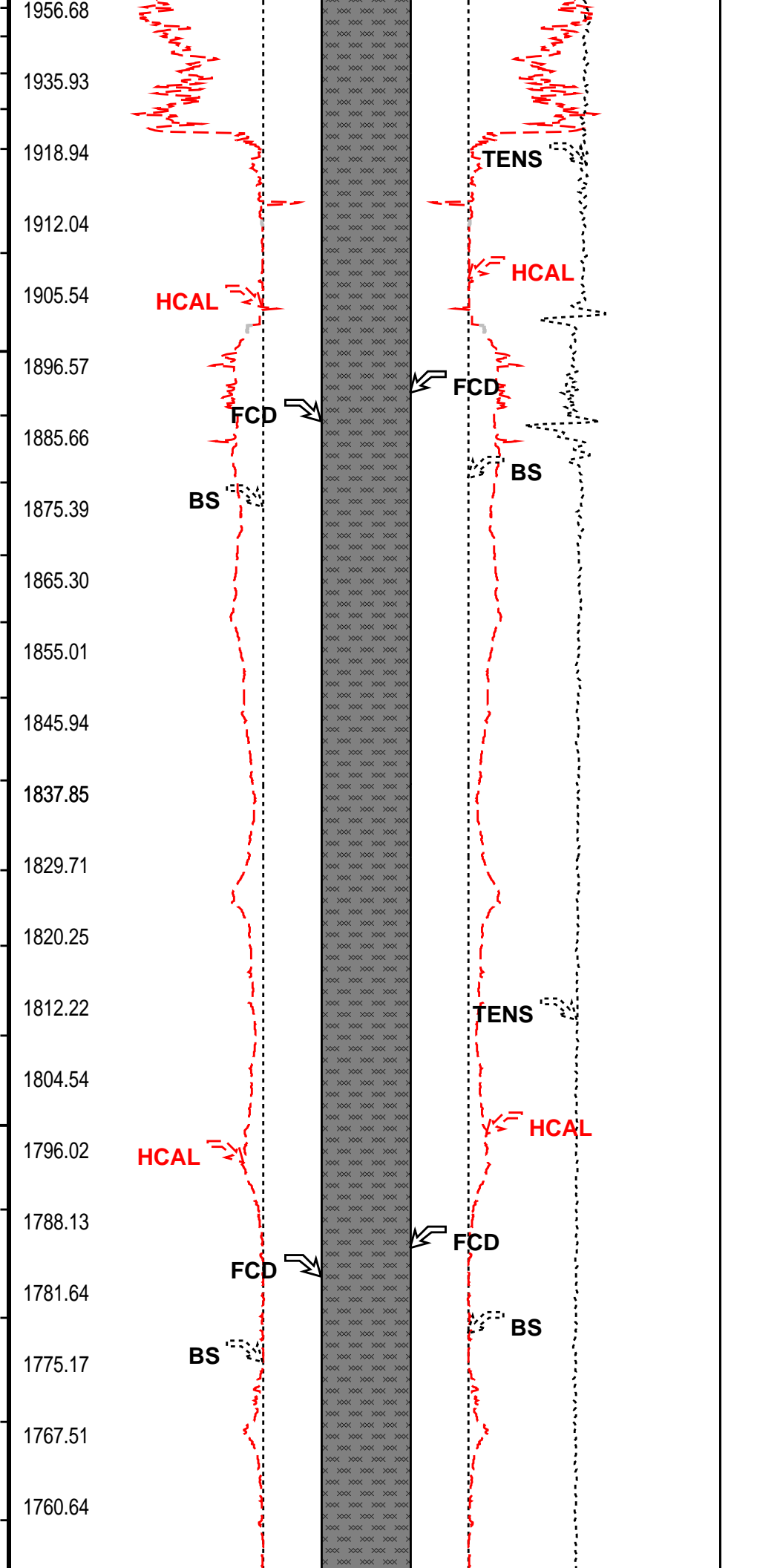
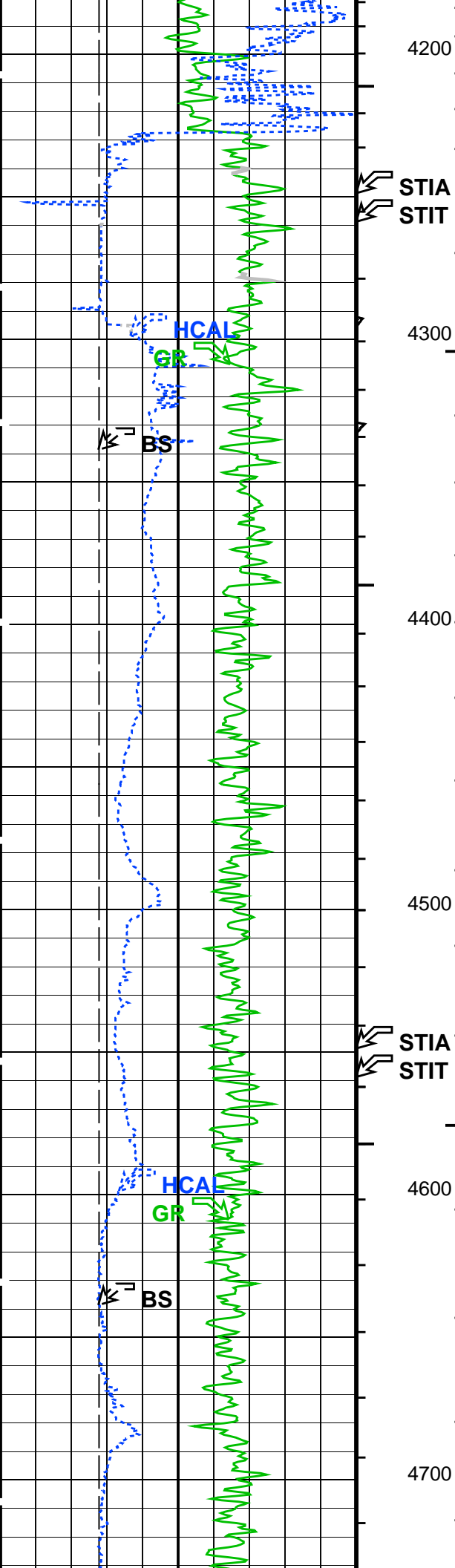
BS

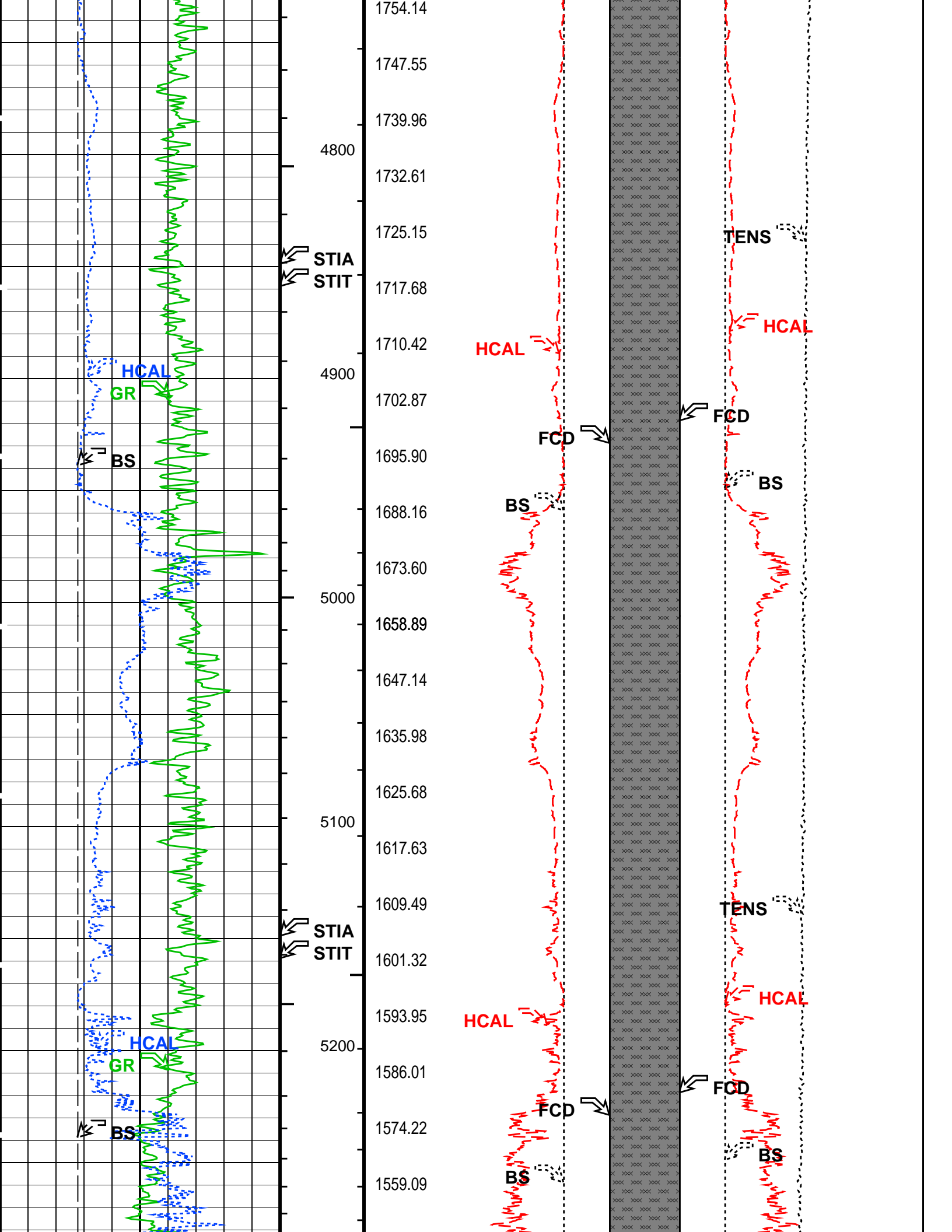
TENS

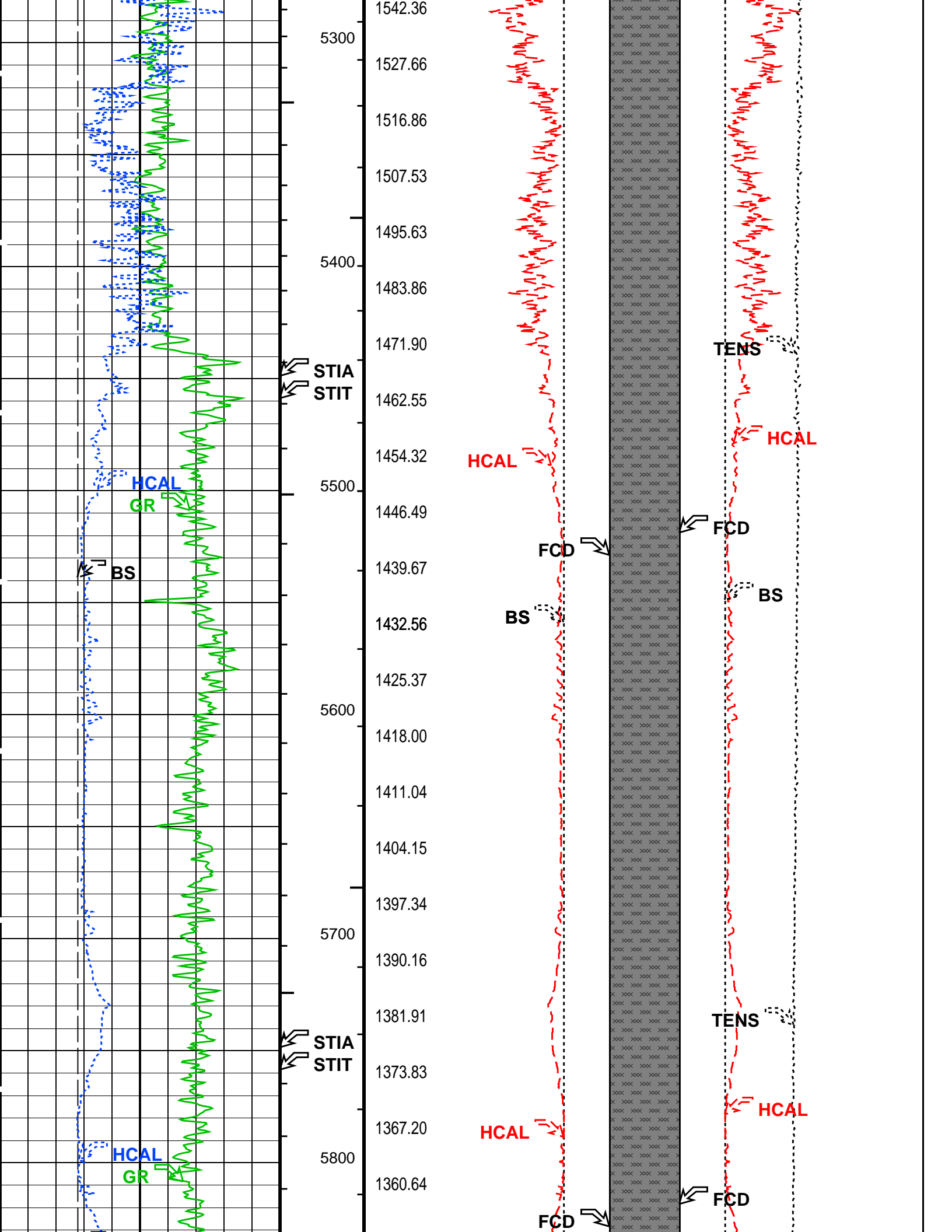
HCAL

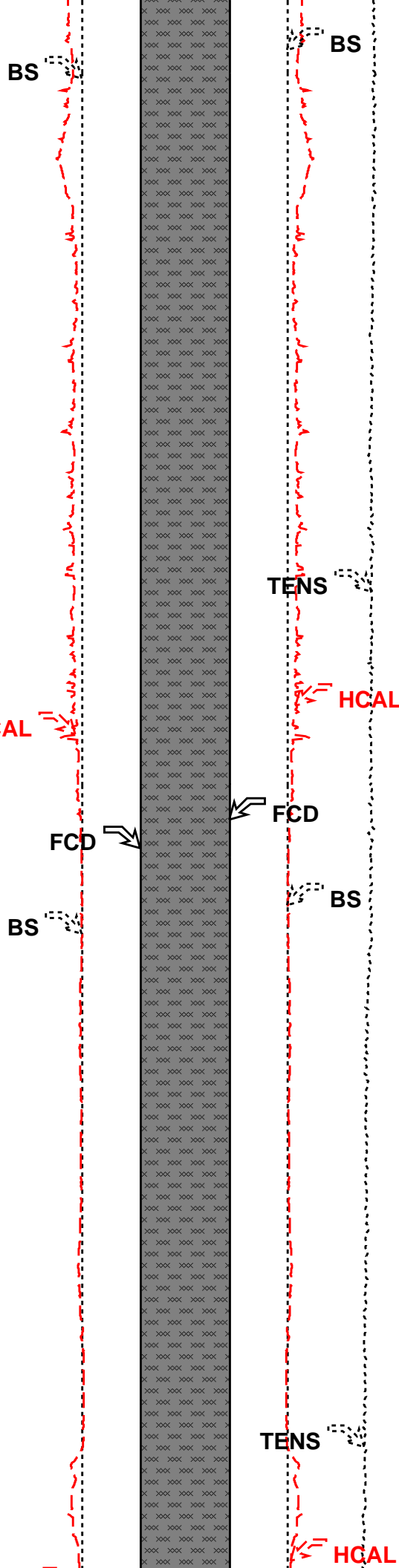
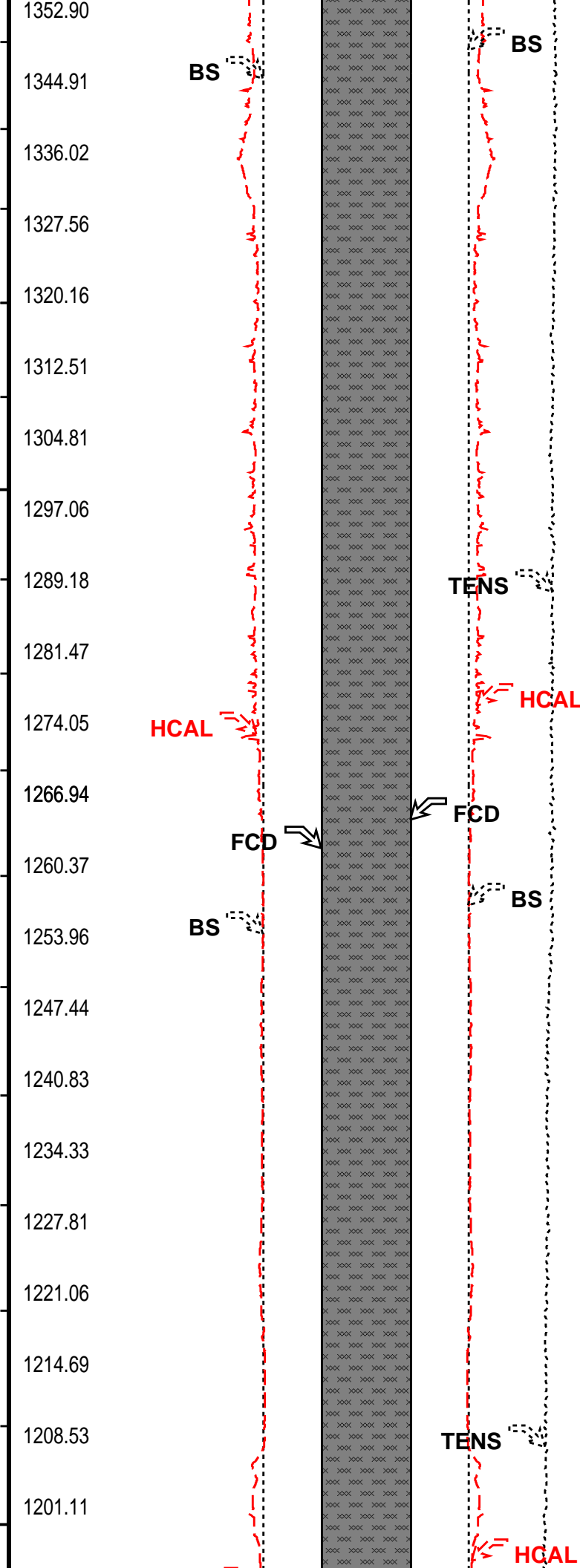
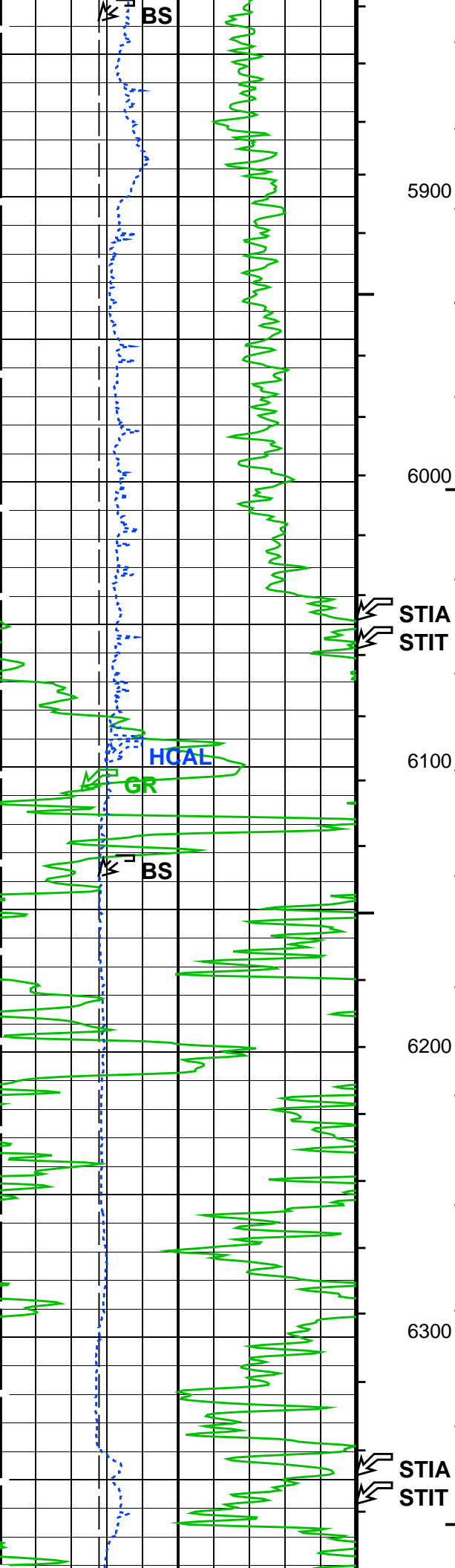


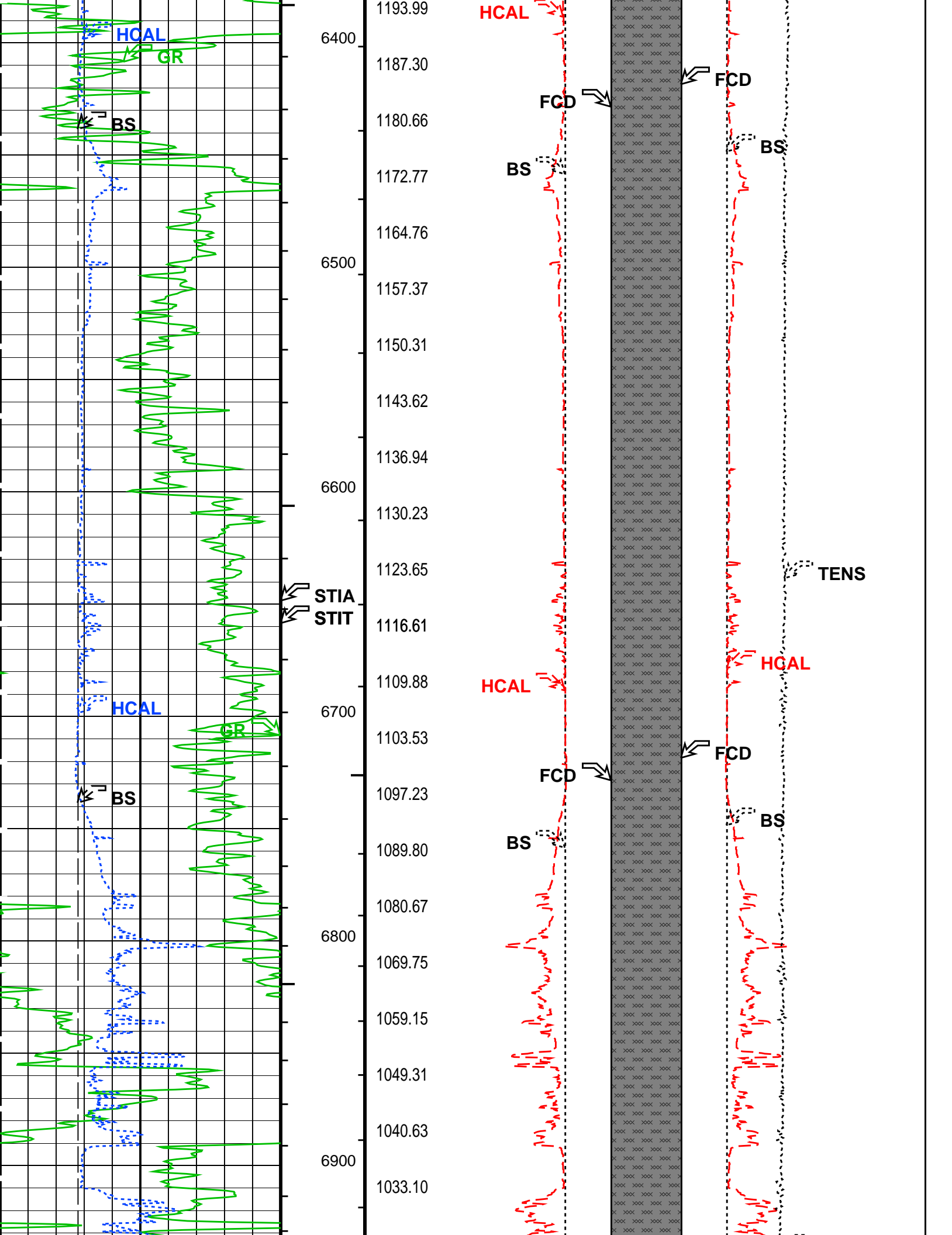


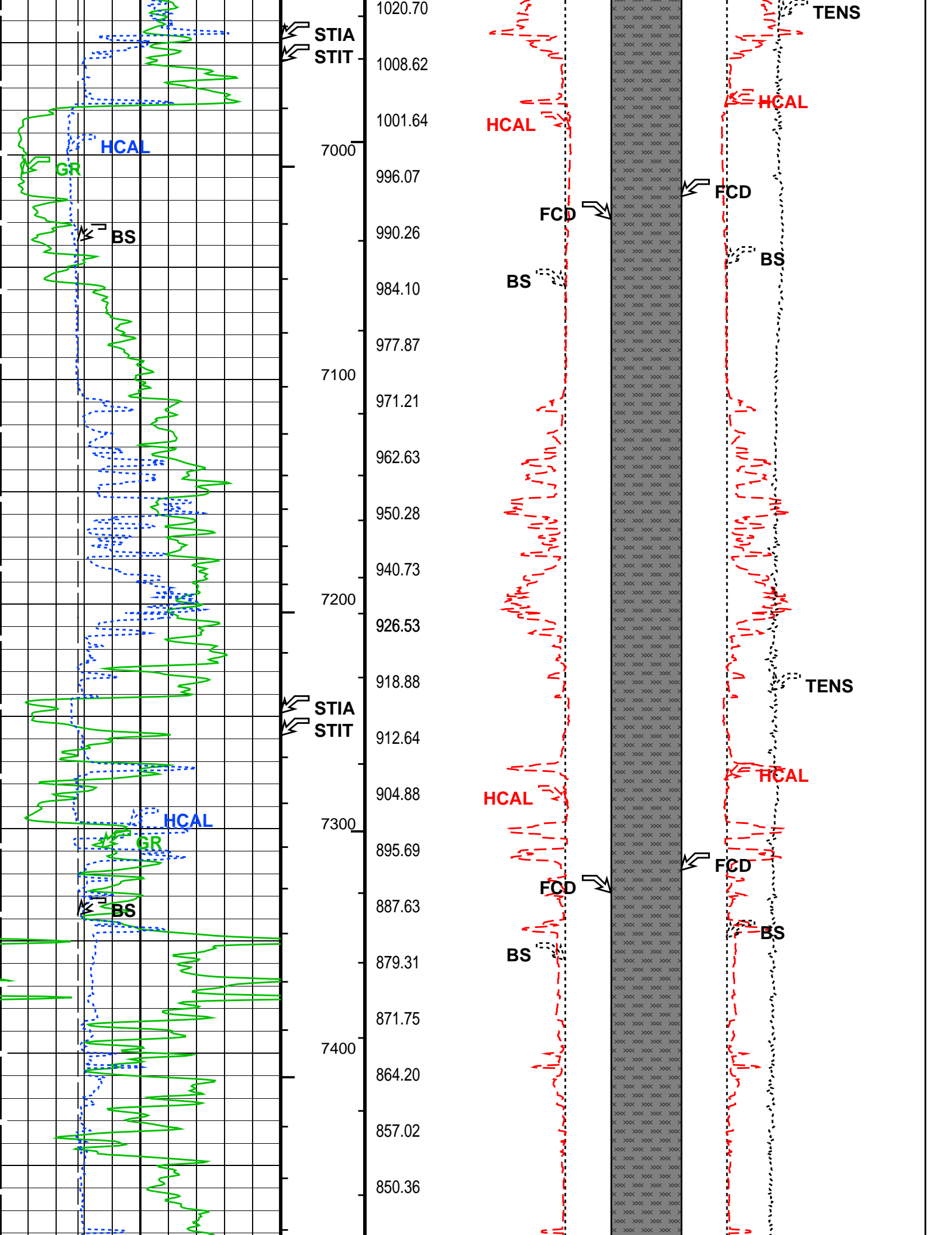


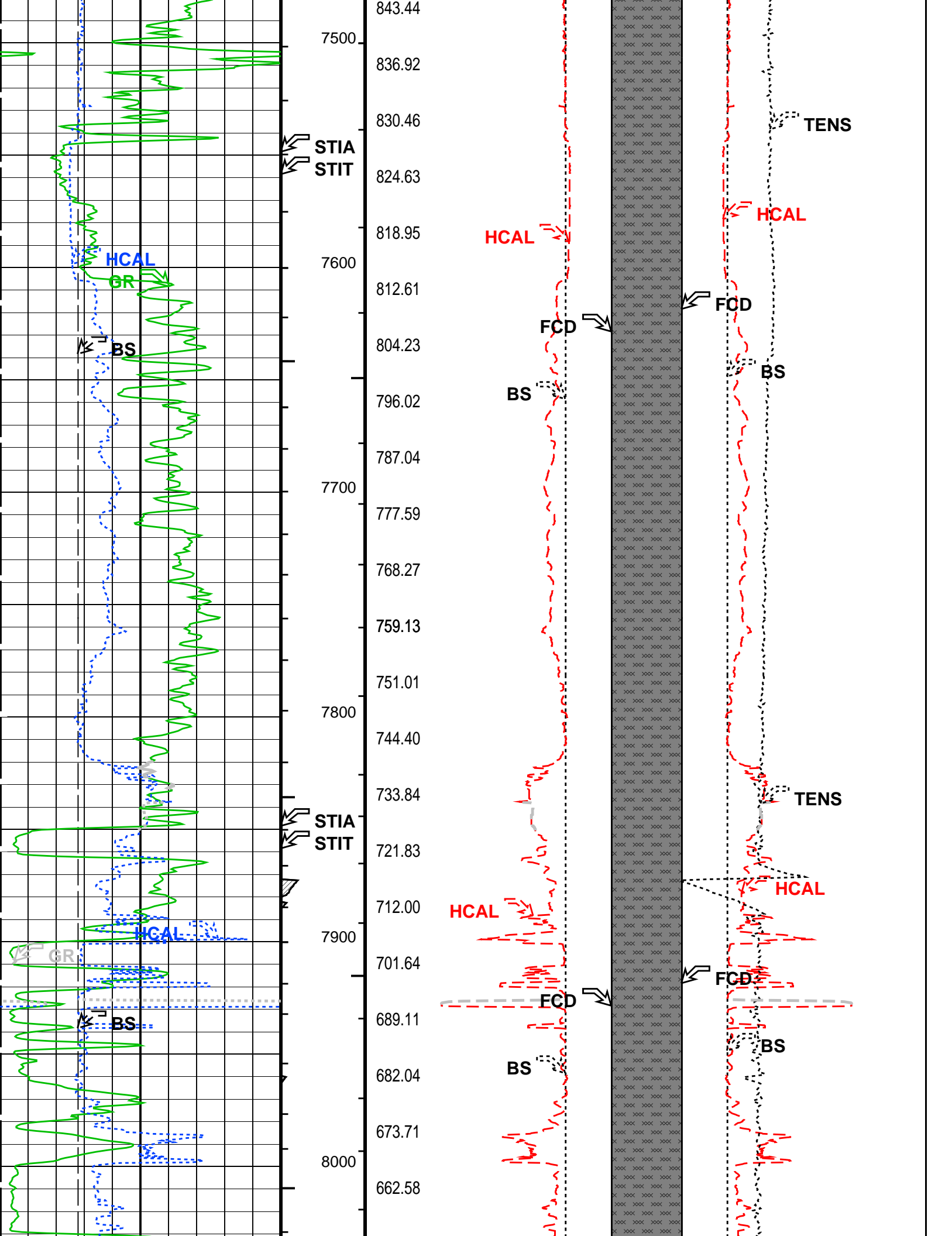


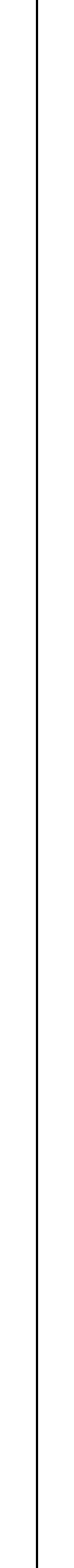
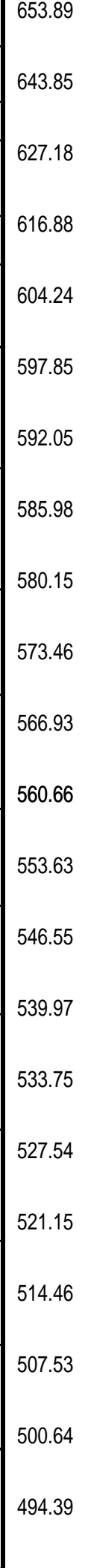
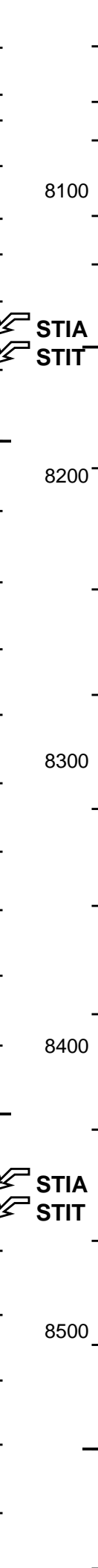
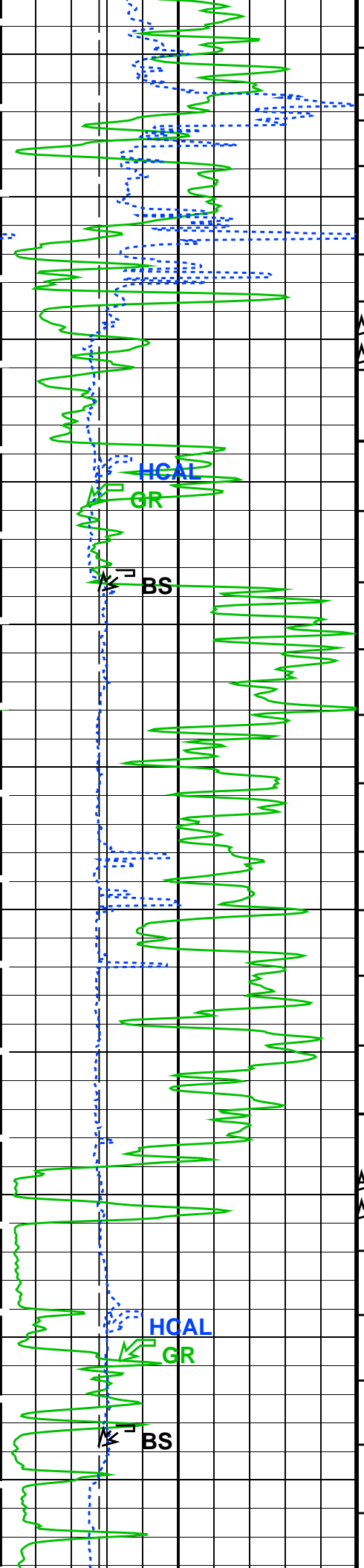


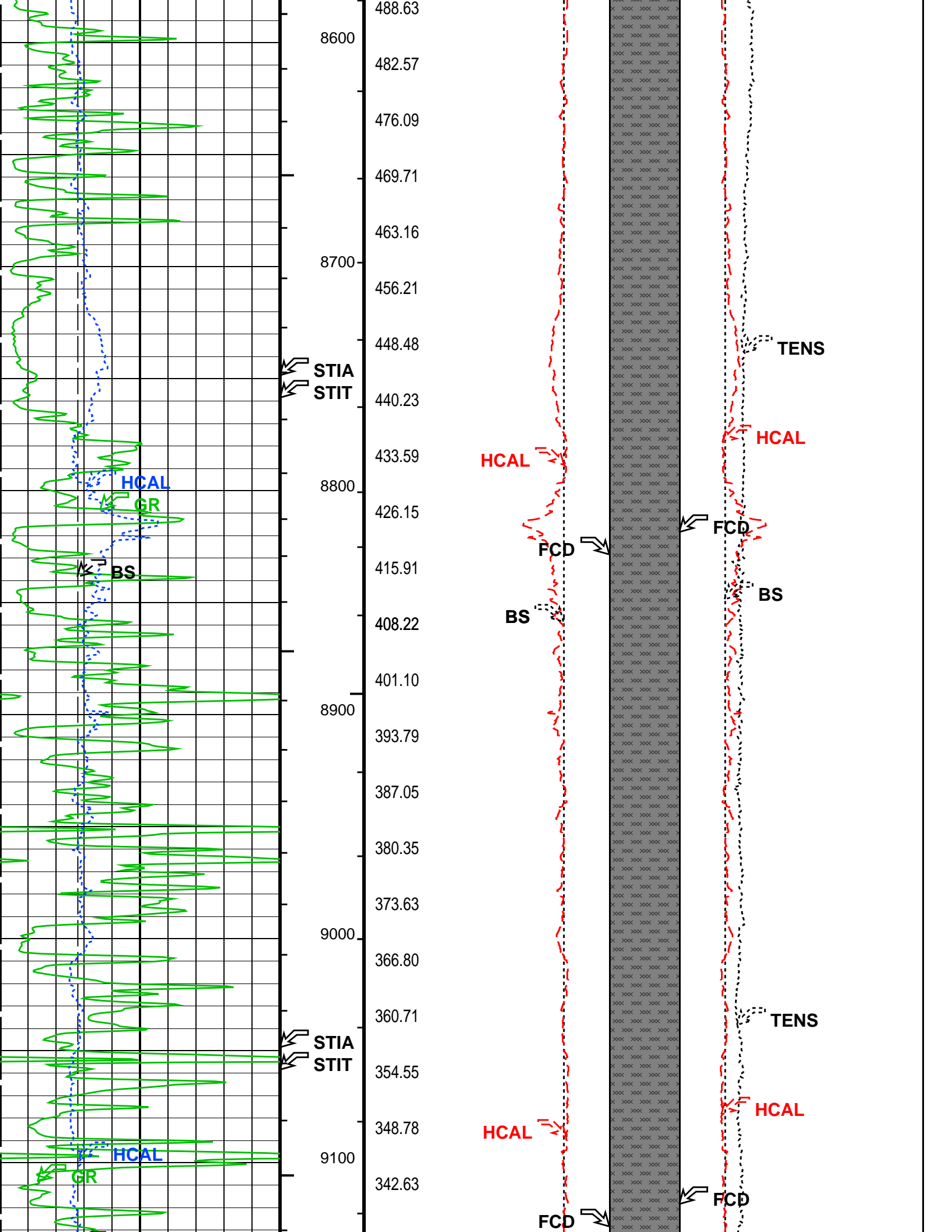


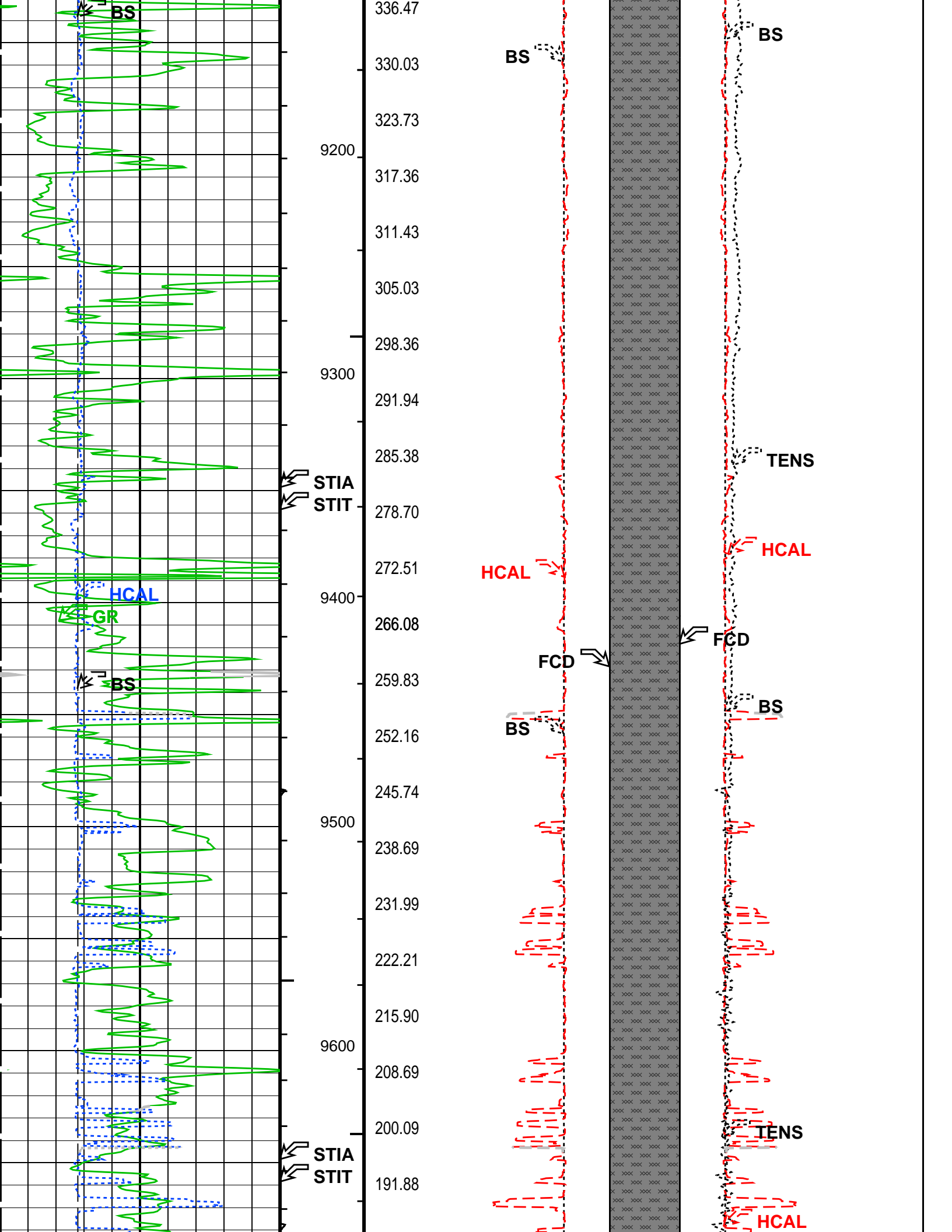


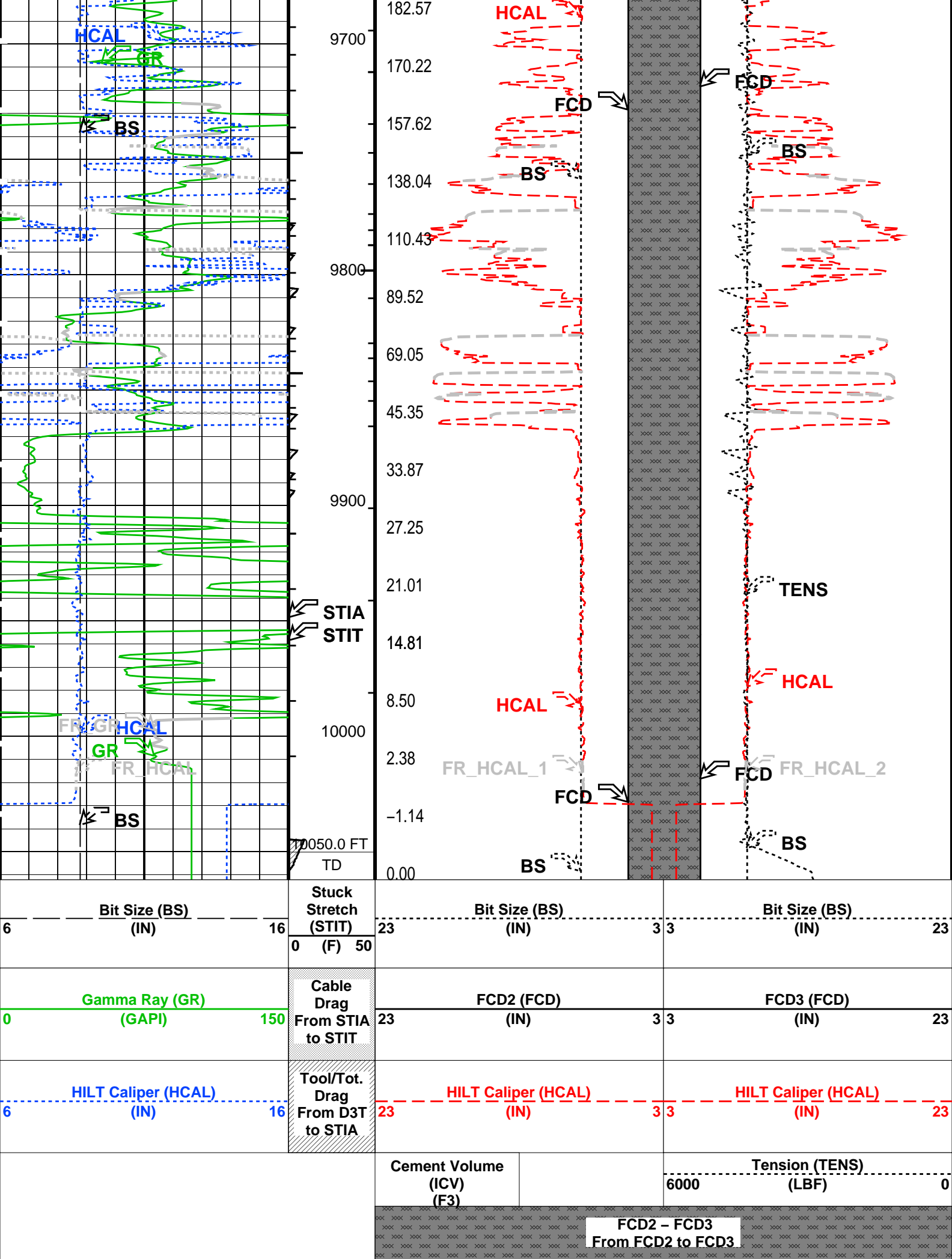












PIP SUMMARY

- └ 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
ZAIT-EB: 3-D Array Induction Tool – ZAIT-E		
TRI1DV	3D 1D Code Version Number	315
TRIBHV	Array Induction Borehole Correction Code Version Number	168
TRIRT	3D Rotation Selector	NorTH
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	5.5 IN
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL
STKT	STI Stuck Threshold	2.5 FT
TDD	Total Depth – Driller	10060.00 FT
TDL	Total Depth – Logger	10050.00 FT
System and Miscellaneous		
BS	Bit Size	8.750 IN
DO	Depth Offset for Playback	0.0 FT
DORL	Depth Offset for Repeat Analysis	0.0 FT
PP	Playback Processing	RECOMPUTE
TD	Total Depth	10050 FT

Format: G_DCAL_FORMAT Vertical Scale: 2" per 100' Graphics File Created: 02-Jul-2013 23:19

OP System Version: 19C2-270

ZAIT-EB	19C2-270	GPIT-F	19C2-270
HILTH-FTB	19C2-270	DTC-H	19C2-270

Input DLIS Files

DEFAULT	AIT_IS_TLD_MCFL_CNL_012LUP	FN:11	PRODUCER	02-Jul-2013 19:58	10062.0 FT	1511.0 FT
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Output DLIS Files

DEFAULT	AIT_IS_TLD_MCFL_CNL_024PUP	FN:25	PRODUCER	02-Jul-2013 23:19
CUSTOMER	AIT_IS_TLD_MCFL_CNL_024PUC	FN:26	CUSTOMER	02-Jul-2013 23:19

Company: **Whiting Oil and Gas Corporation**

Schlumberger

Well: **Wildhorse 16-13L**

Field: **Wildcat**

County: **Weld**

State: **Colorado**

Platform Express
Cement Volume