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Run 4

Date Created: 28-FEB-2010 0:50:11

Logging Cable

Type:	7-39P LXS
Serial Number:	708273
Length:	12240 FT
<hr/>	
Conveyance Method:	Wireline
Rig Type:	LAND

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 FT
Rig Up Length At Bottom:	0.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	11.00 FT
Tool Zero Check At Surface:	0.00 FT

1. All Schlumberger depth policy procedures applied
2. This is the primary depth reference
- 3.
- 4.
- 5.
- 6.

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 OF 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.

OTHER SERVICES2
OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 2

1. This is the first run in hole.
2. Tool run as per tool sketch.
3. Matrix changes as noted on the porosity logs
4. Rmf and Rmc calculated using GEN-7
5. Do to hole conditions main pass was made first
6. Caliper closed between 7993-8117 ft.
7. Abnormal S-curve well according to directional survey

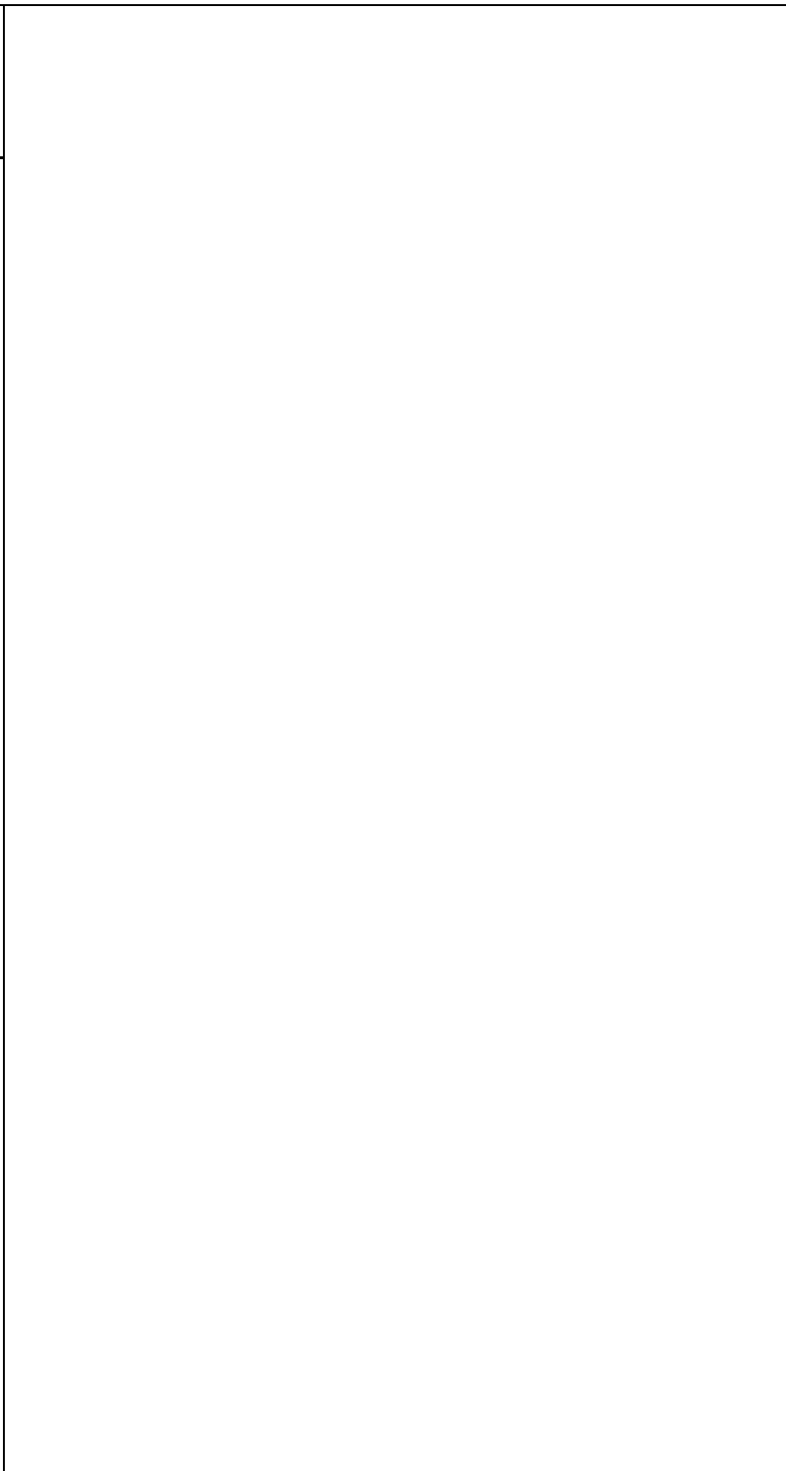
Rig: Xtreme 11	
Crew: Tim Ludgate, Dave Marquez	

RUN 1			RUN 2		
SERVICE ORDER #:		BCEK-00007	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

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

DOWNHOLE EQUIPMENT	
LEH-QT	40.6
LEH-QT	
HGNS HTEM	
HMCA	
TelStatus	
CTEM	37.6
HILTB-CTS	37.6
HGNSC-B	36.9
HMCA	
TCC-B	
HGNH	
NLS-KL	
NSR-F 5168	
HACCZ 419	
HCNT	
HGR	
HRCC-B	
HRMS-B	HGNS Neut 31.1
HRGD-B	HGNS Neut 30.6
GLS-VJ 5363	
MCFL Device	
HILT Nucl. LS 42767	
HILT Nucl. SS 42767	HGNS sens 28.2
HILT Nucl. BS 42767	
AIT-H	
AHIS-BA 397	
AHRM-A	
NPV-N	
HRCC cart	24.2
MCFL	18.8
HILT cali	18.3
HRDD-LS	
HRDD-SS	
HRDD-BS	17.9



Induction
Temperatu
Power Sup

7.9

SP SENSOR
HTEN HMAS
Accelerom HV
Mud Resis
Tension

0.1

0.0

TOOL ZERO

MAXIMUM STRING DIAMETER 4.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Production String

(in) (ft)
OD ID MD

Well Schematic

(ft) (in)
MD OD ID

Casing String

0.0 8.625 8.097

Casing String

771.0 8.625 8.097
771.0 7.875

Casing Shoe
Borehole Segment

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All depths are driller's depths

Input DLIS Files						
HILTC .020	FN:19	28-Feb-2010 02:16	8201.0 FT	750.0 FT		
Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_024PUP	FN:24	PRODUCER	28-Feb-2010 02:34	8201.0 FT	750.0 FT

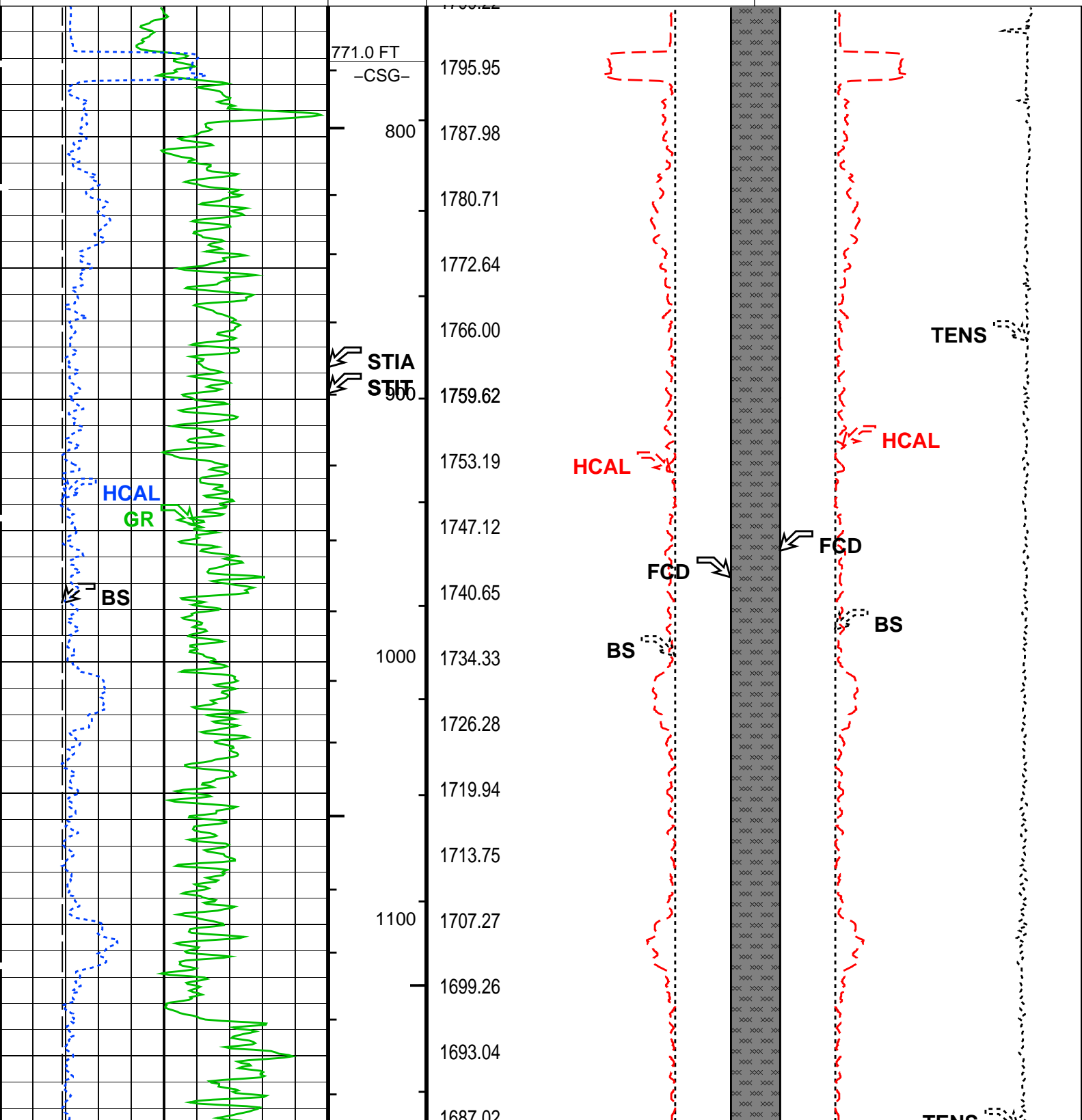
Integrated Hole/Cement Volume Summary	
Hole Volume = 2612.94 F3	
Cement Volume = 1799.22 F3 (assuming 4.50 IN casing O.D.)	
Computed from 8138.0 FT to 771.0 FT using data channel(s) HCAL	

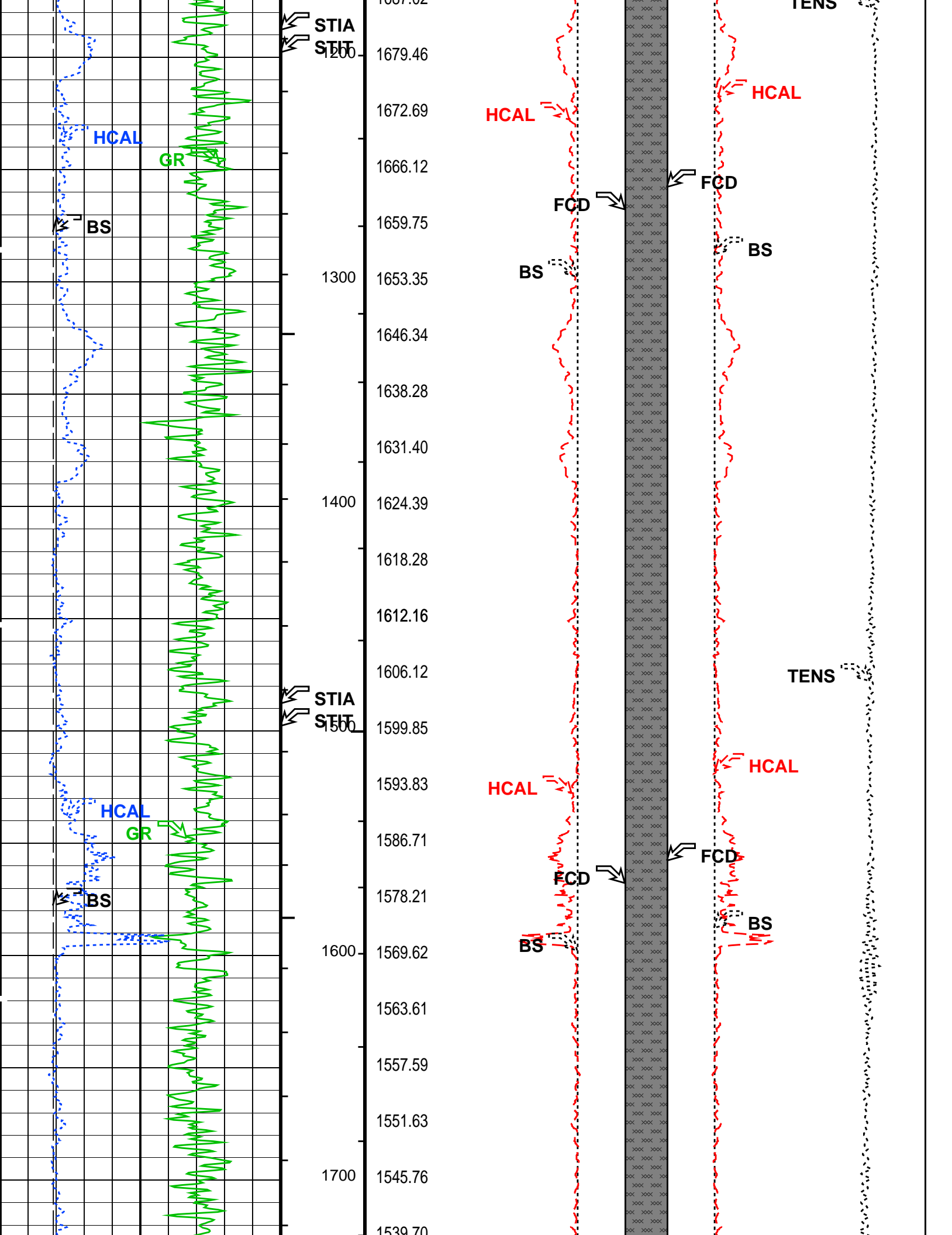
OP System Version: 17C0-154	
HILTB-CTS	17C0-154

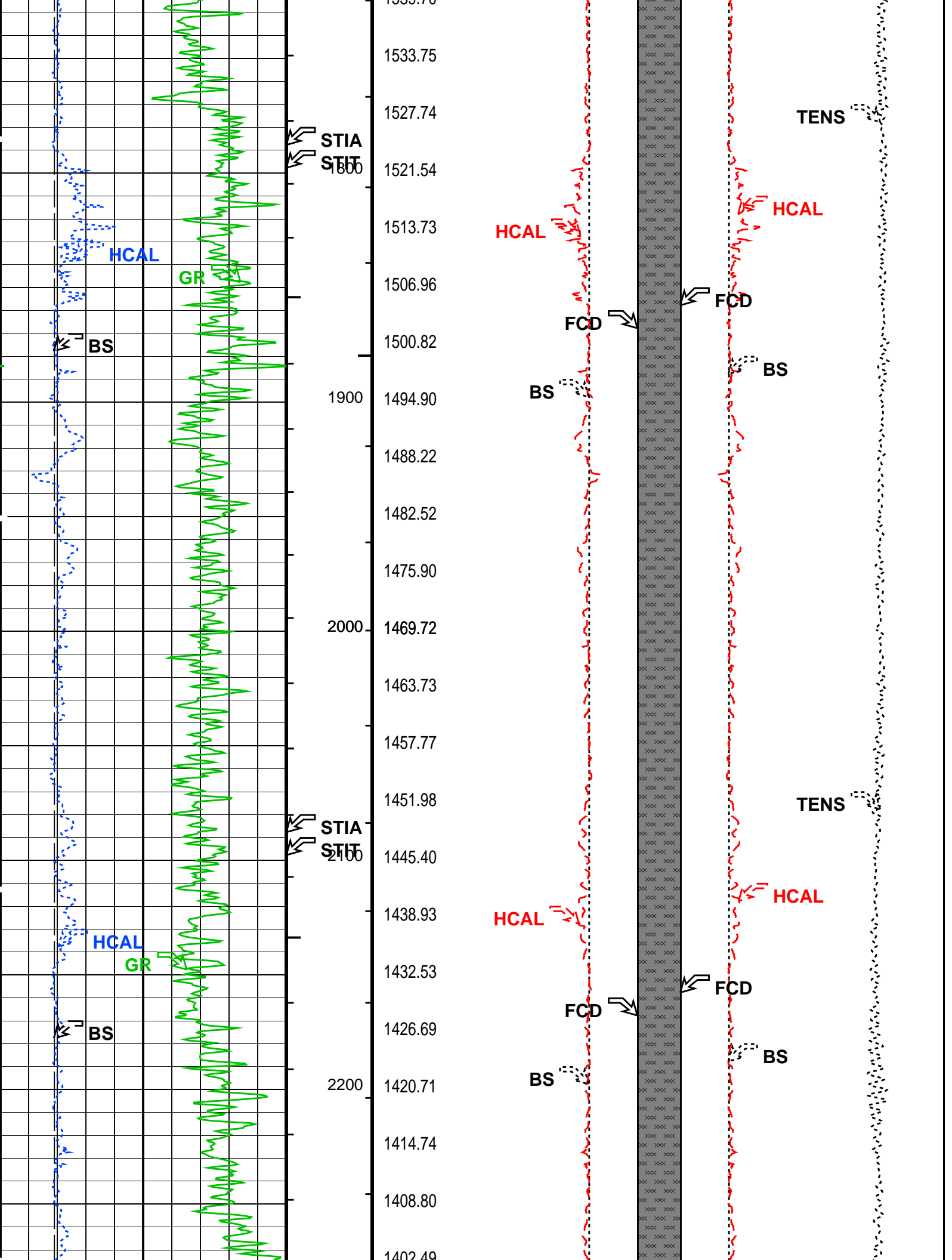
PIP SUMMARY	
└ Integrated Hole Volume Minor Pip Every 10 F3	
└ Integrated Hole Volume Major Pip Every 100 F3	
└ Integrated Cement Volume Minor Pip Every 10 F3	
└ Integrated Cement Volume Major Pip Every 100 F3	
Time Mark Every 60 S	

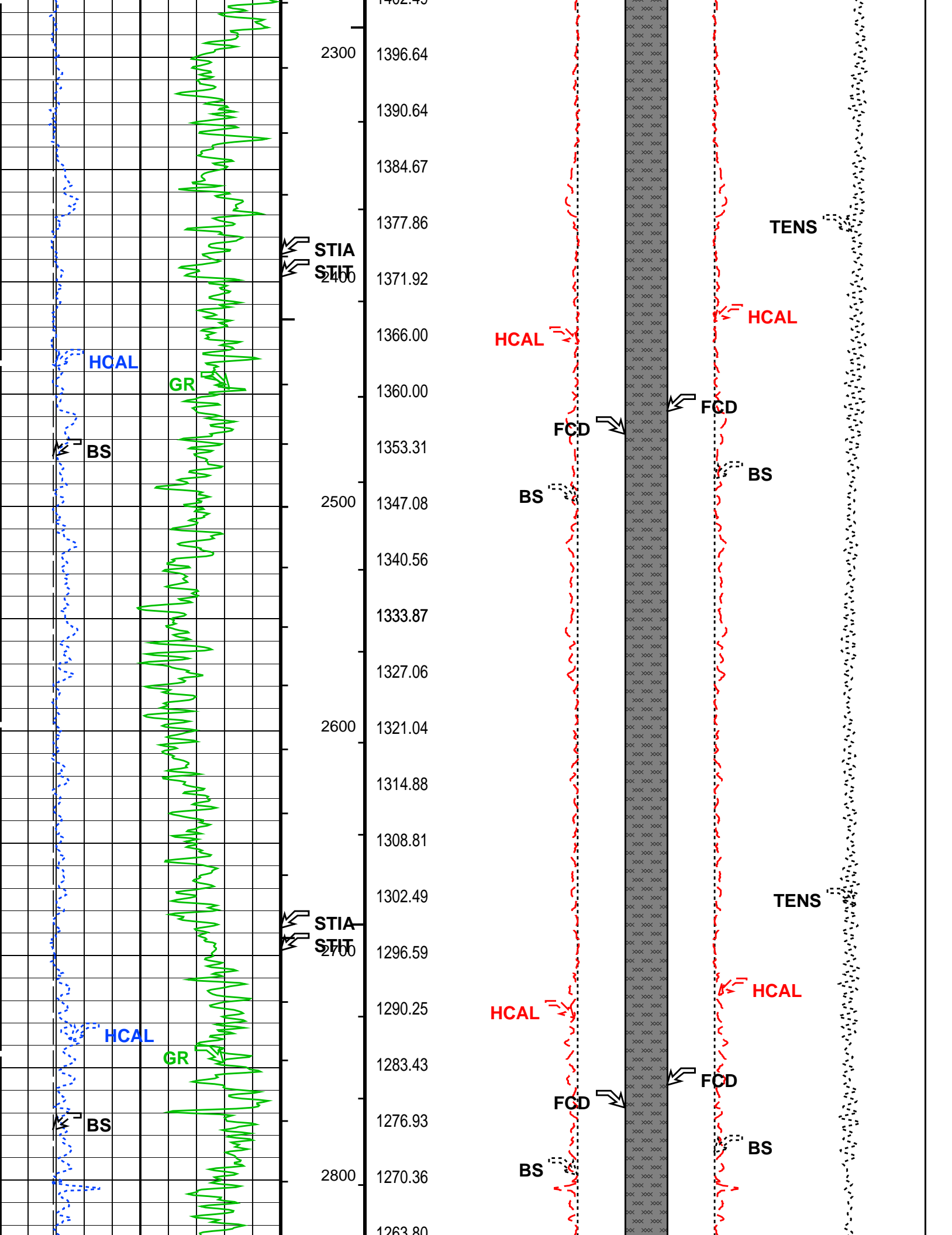
		FCD2 - FCD3 From FCD2 to FCD3	
Cement Volume (ICV)		Tension (TENS)	
		(LBF)	
		6000	0

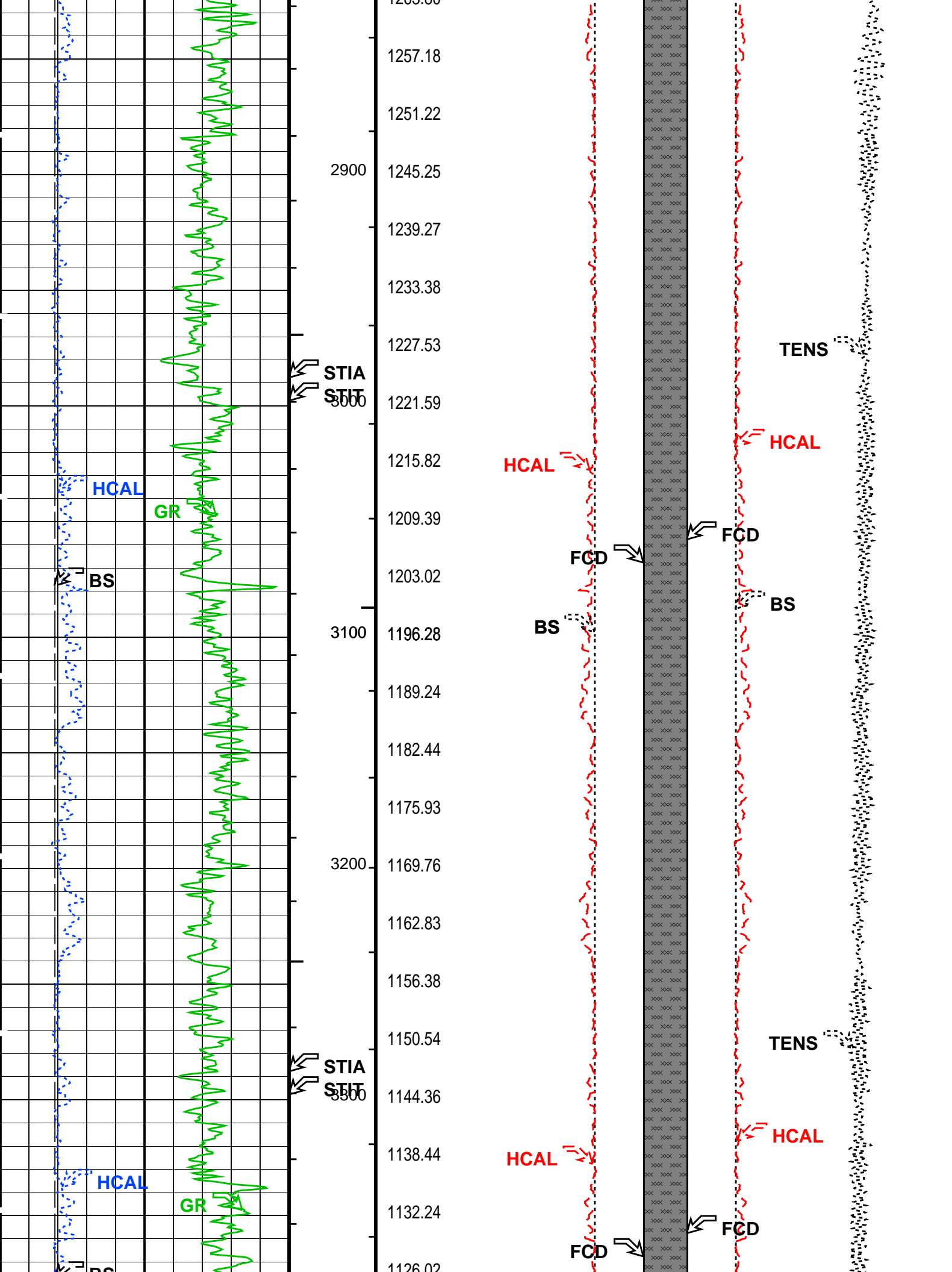
<div> <div>HILT Caliper (HCAL)</div> <div>(IN)</div> </div> <div>616</div>		<div> <div>Tool/Tot.</div> <div>Drag</div> <div>From D3T</div> <div>to STIA</div> </div> <div></div>	<div> <div>HILT Caliper (HCAL)</div> <div>(IN)</div> </div> <div>233323</div>	<div> <div>HILT Caliper (HCAL)</div> <div>(IN)</div> </div> <div>3323</div>
<div> <div>Gamma Ray (GR)</div> <div>(GAPI)</div> </div> <div>0150</div>		<div> <div>Cable</div> <div>Drag</div> <div>From STIA</div> <div>to STIT</div> </div> <div></div>	<div> <div>FCD2 (FCD)</div> <div>(IN)</div> </div> <div>233</div>	<div> <div>FCD3 (FCD)</div> <div>(IN)</div> </div> <div>23</div>
<div> <div>Bit Size (BS)</div> <div>(IN)</div> </div> <div>616</div>		<div> <div>Stuck</div> <div>Stretch</div> <div>(STIT)</div> <div>(F) 50</div> </div> <div>0</div>	<div> <div>Bit Size (BS)</div> <div>(IN)</div> </div> <div>233</div>	<div> <div>Bit Size (BS)</div> <div>(IN)</div> </div> <div>23</div>

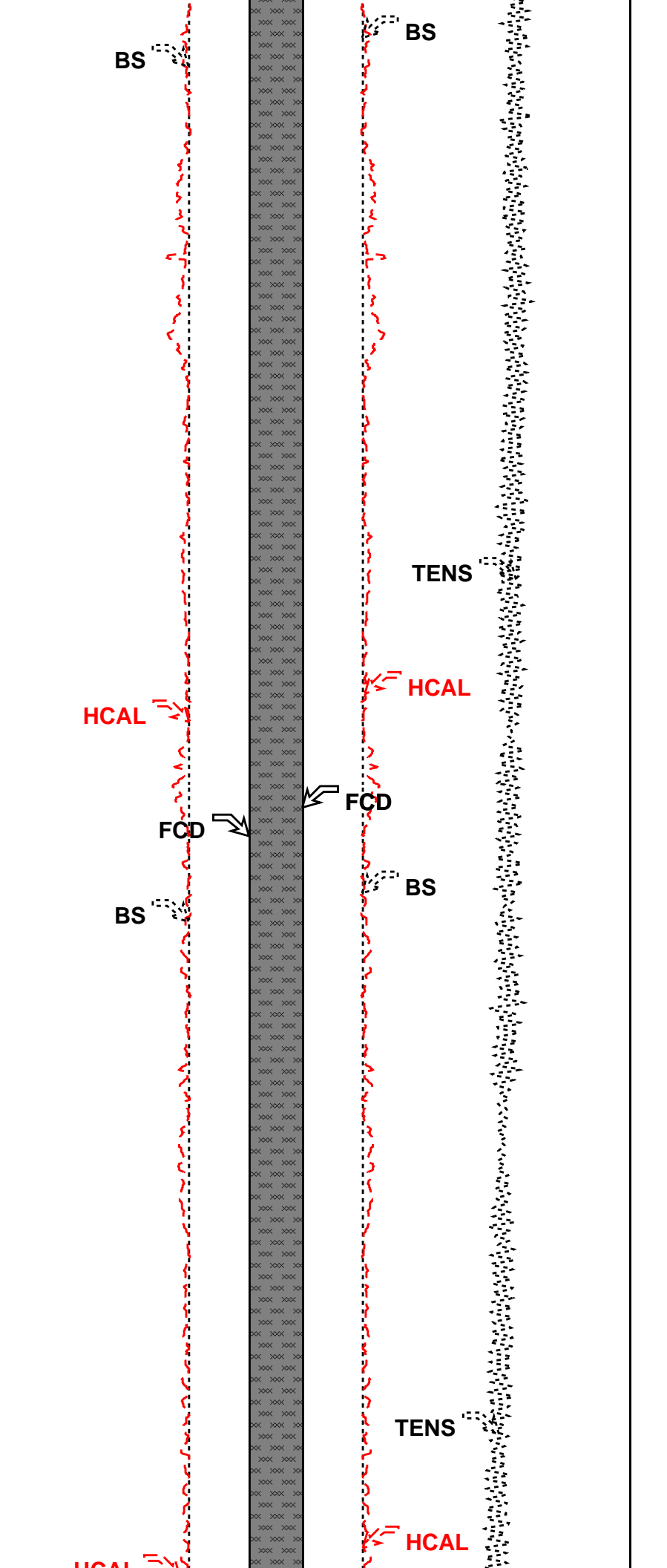
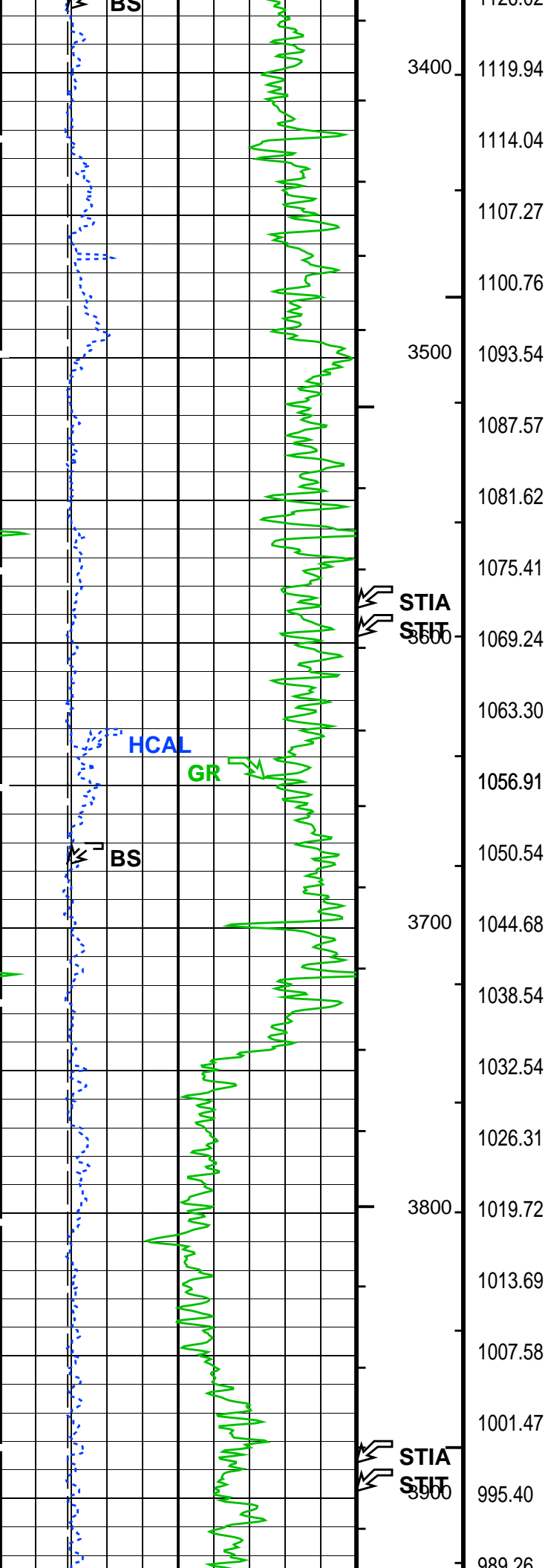


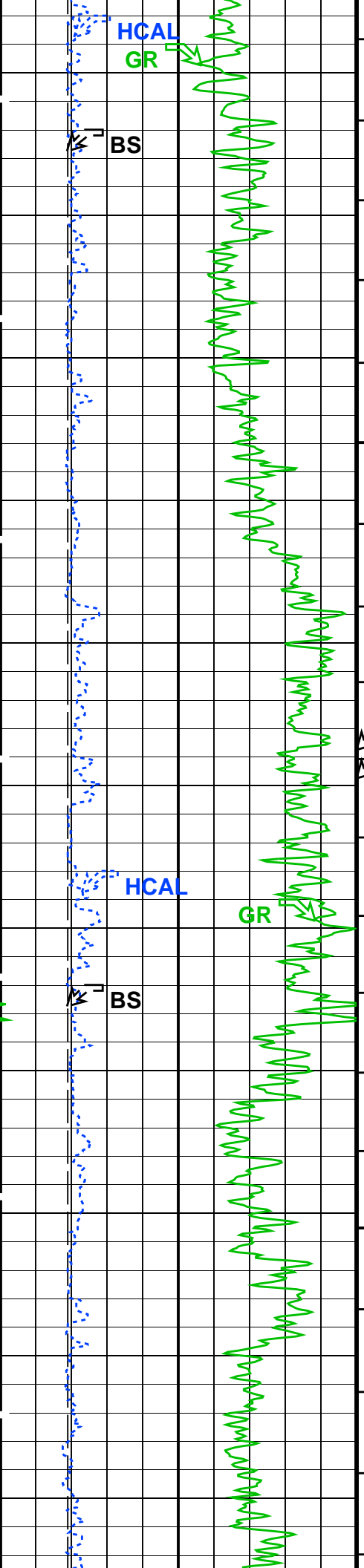








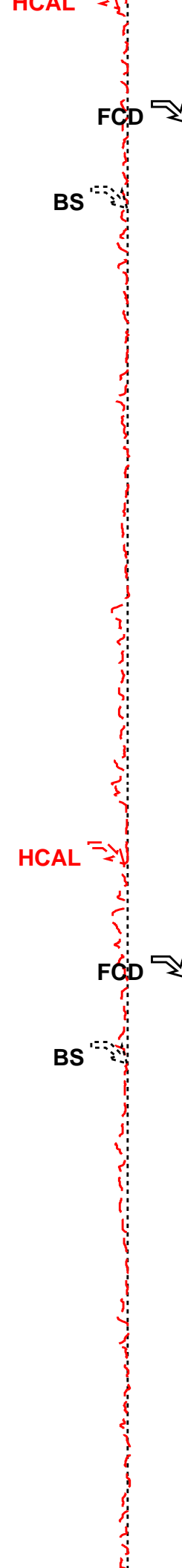




4000
4100
4300
4400

989.20
983.13
977.05
970.93
964.71
958.84
952.64
946.77
940.65
934.27
927.79
921.27
915.18
908.61
902.21
896.03
889.80
883.26
877.27
871.16
865.24
859.47
853.26

STIA
STIA



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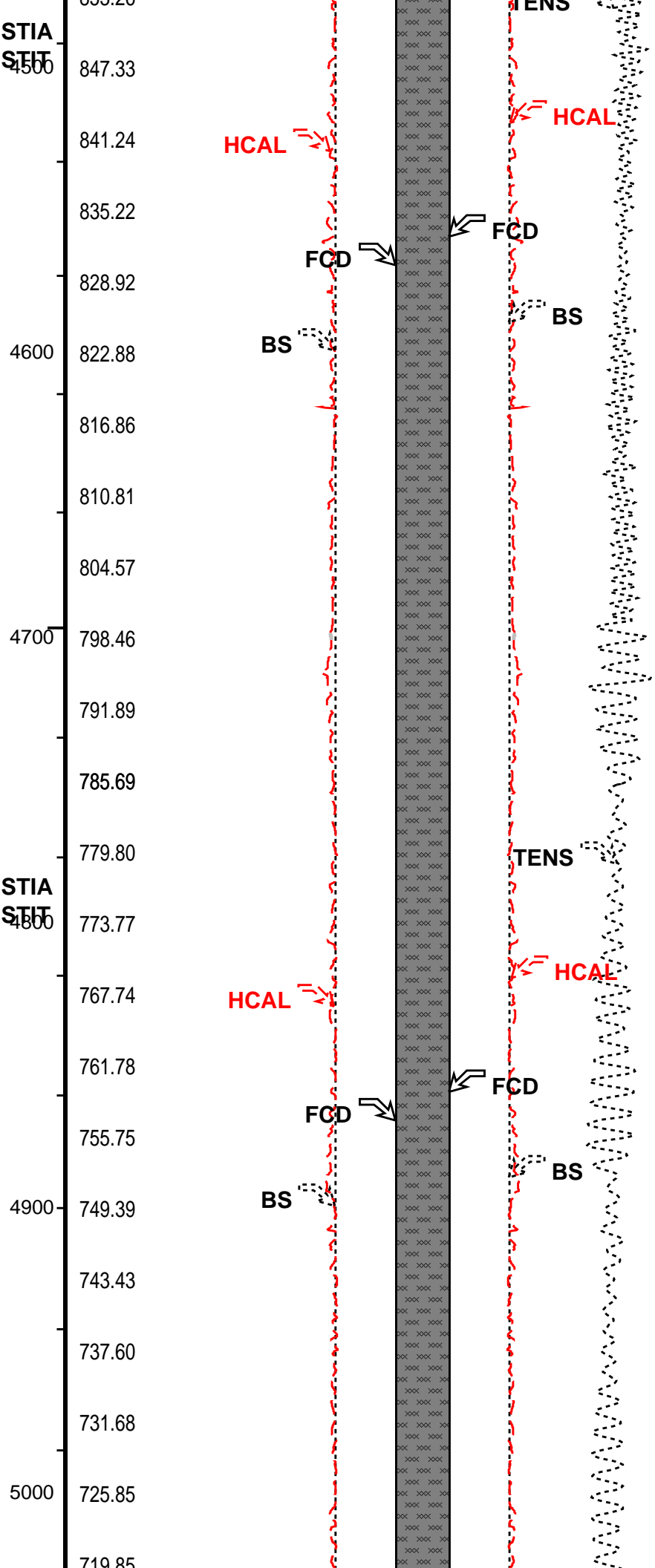
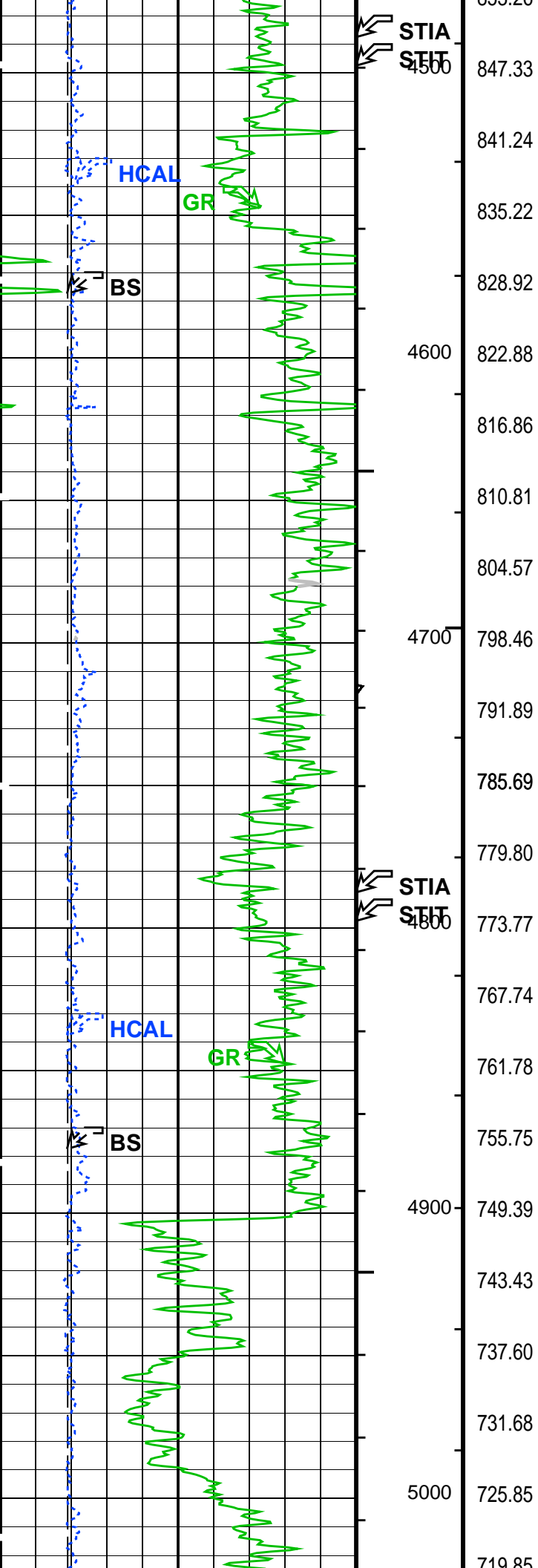
STIA
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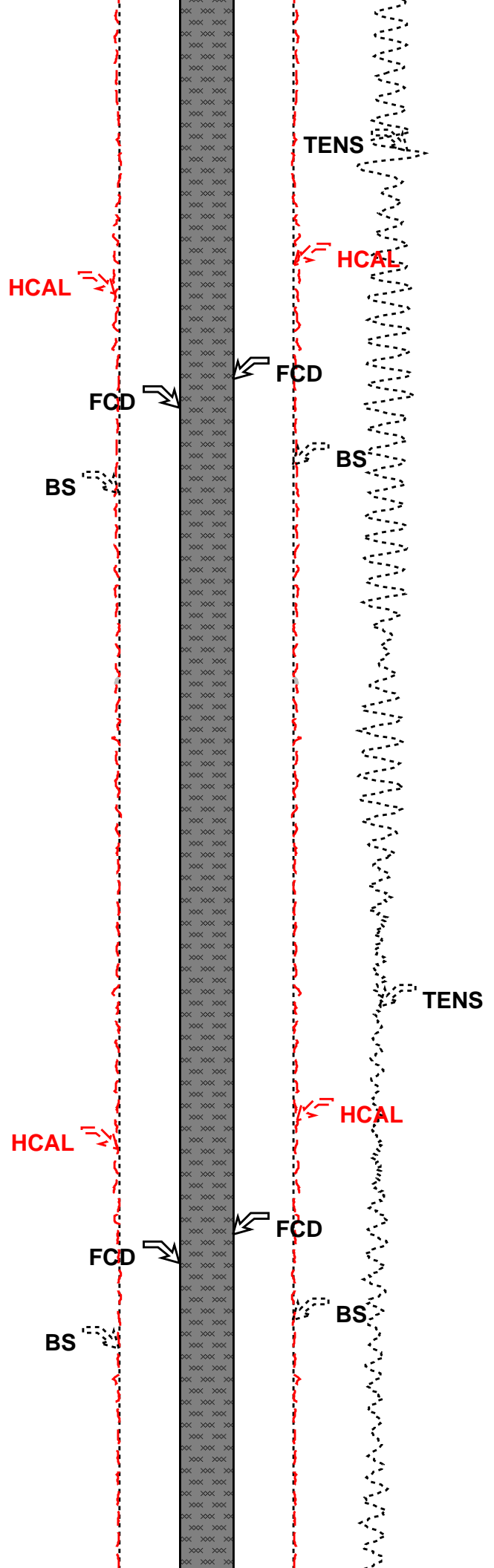
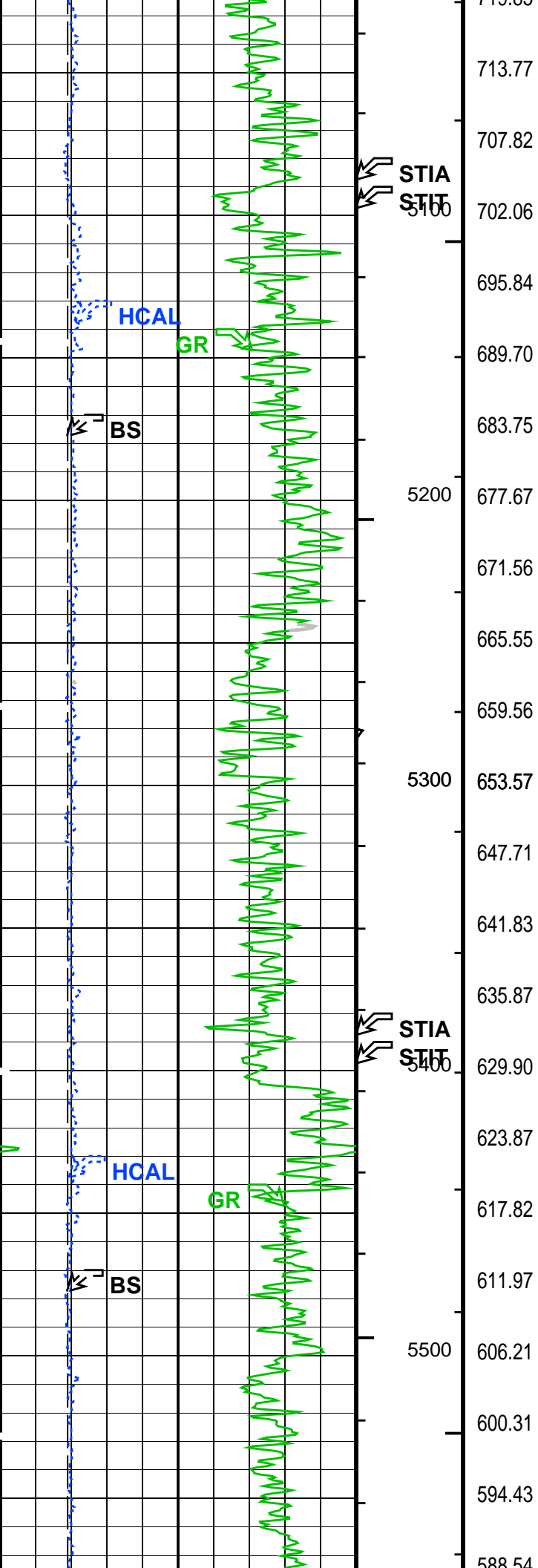


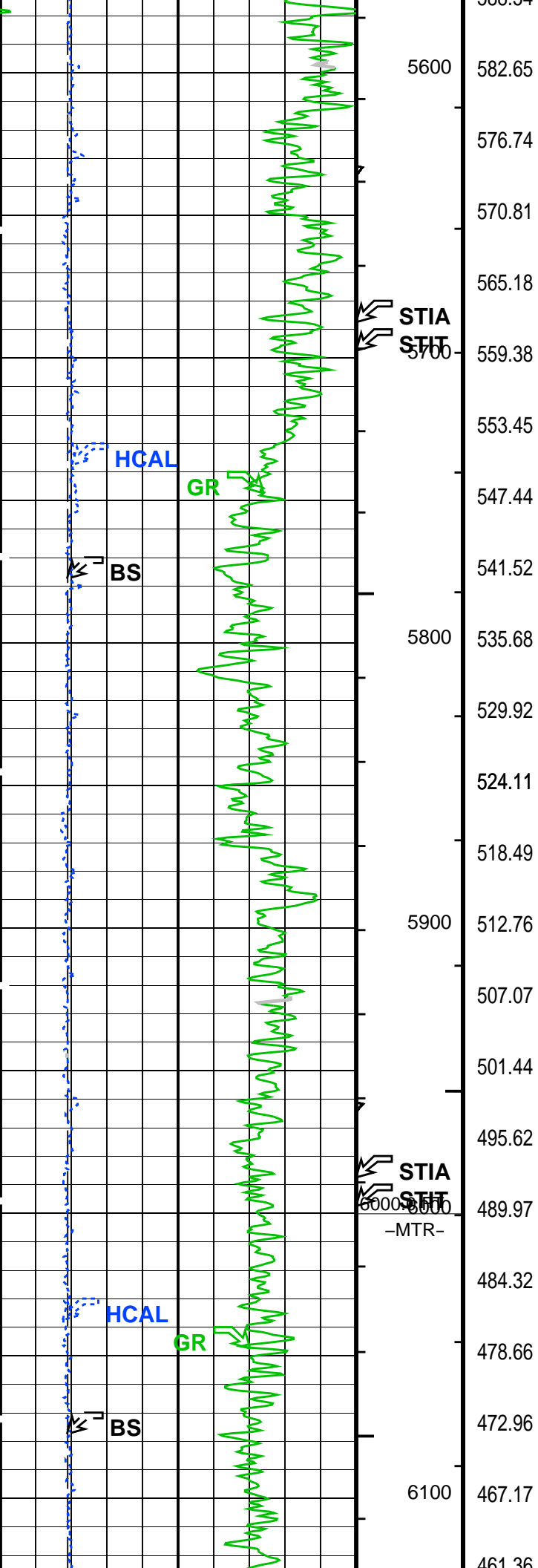
4000
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853.26

STIA
STIA







STIA
STIT

HCAL

GR

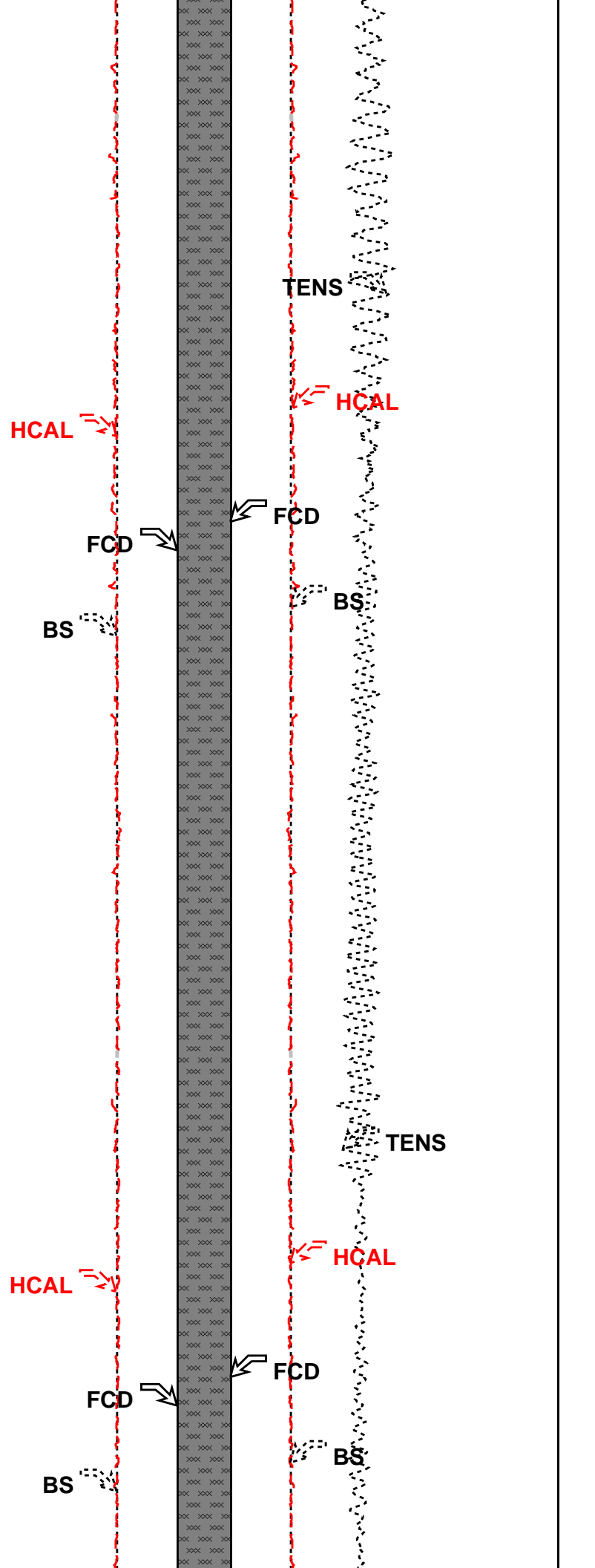
BS

HCAL

GR

BS

STIA
STIT
-MTR-



HCAL

FCD

BS

FCD

BS

TENS

HCAL

FCD

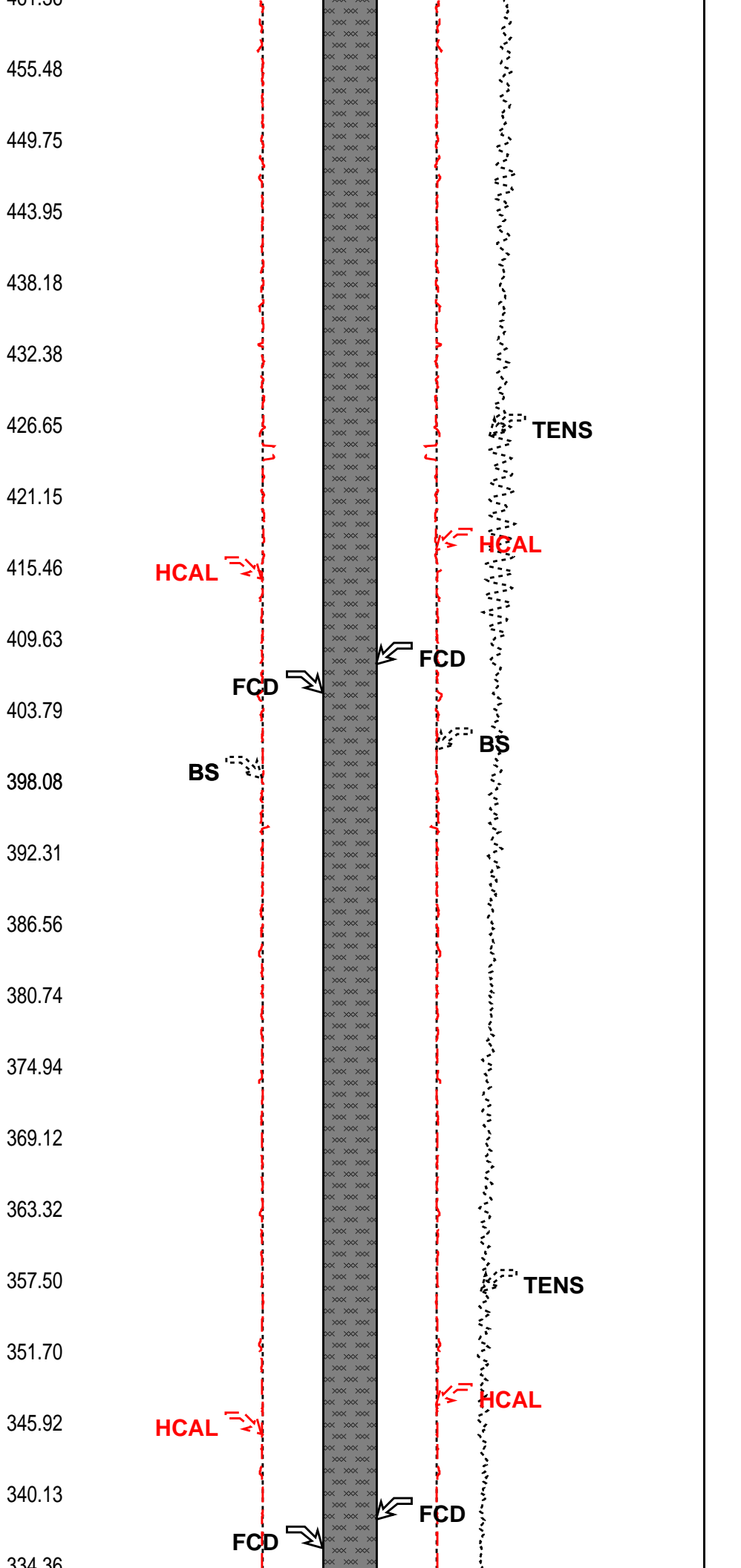
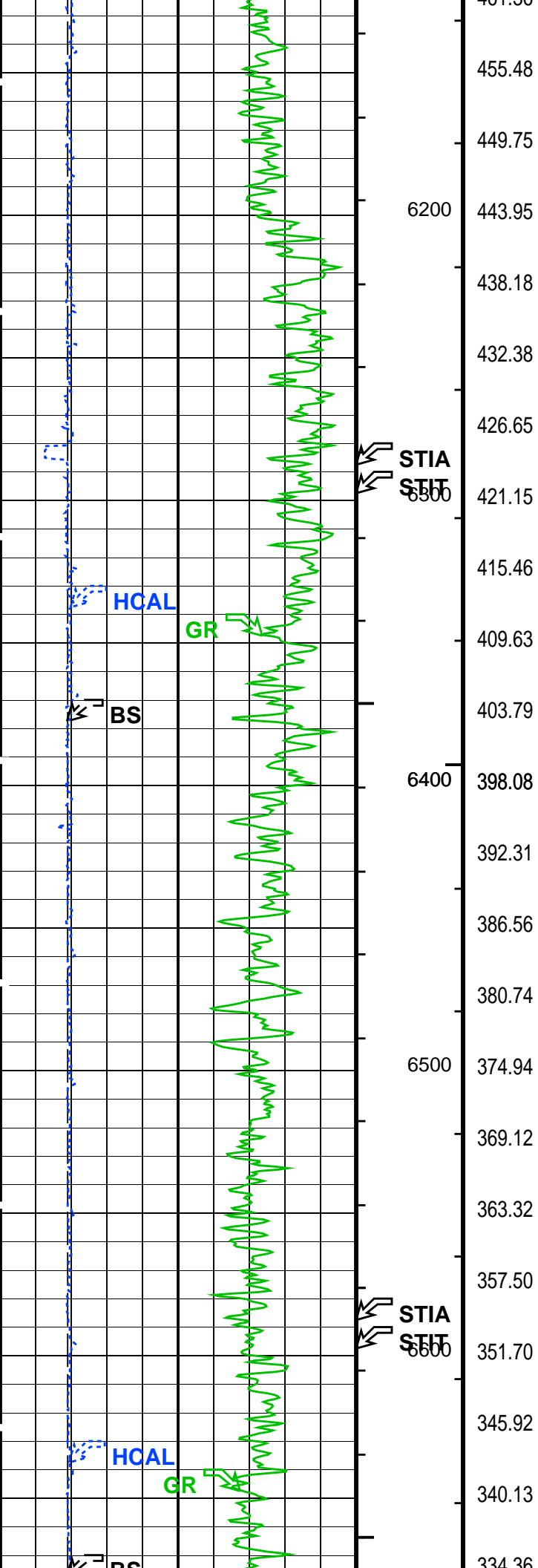
BS

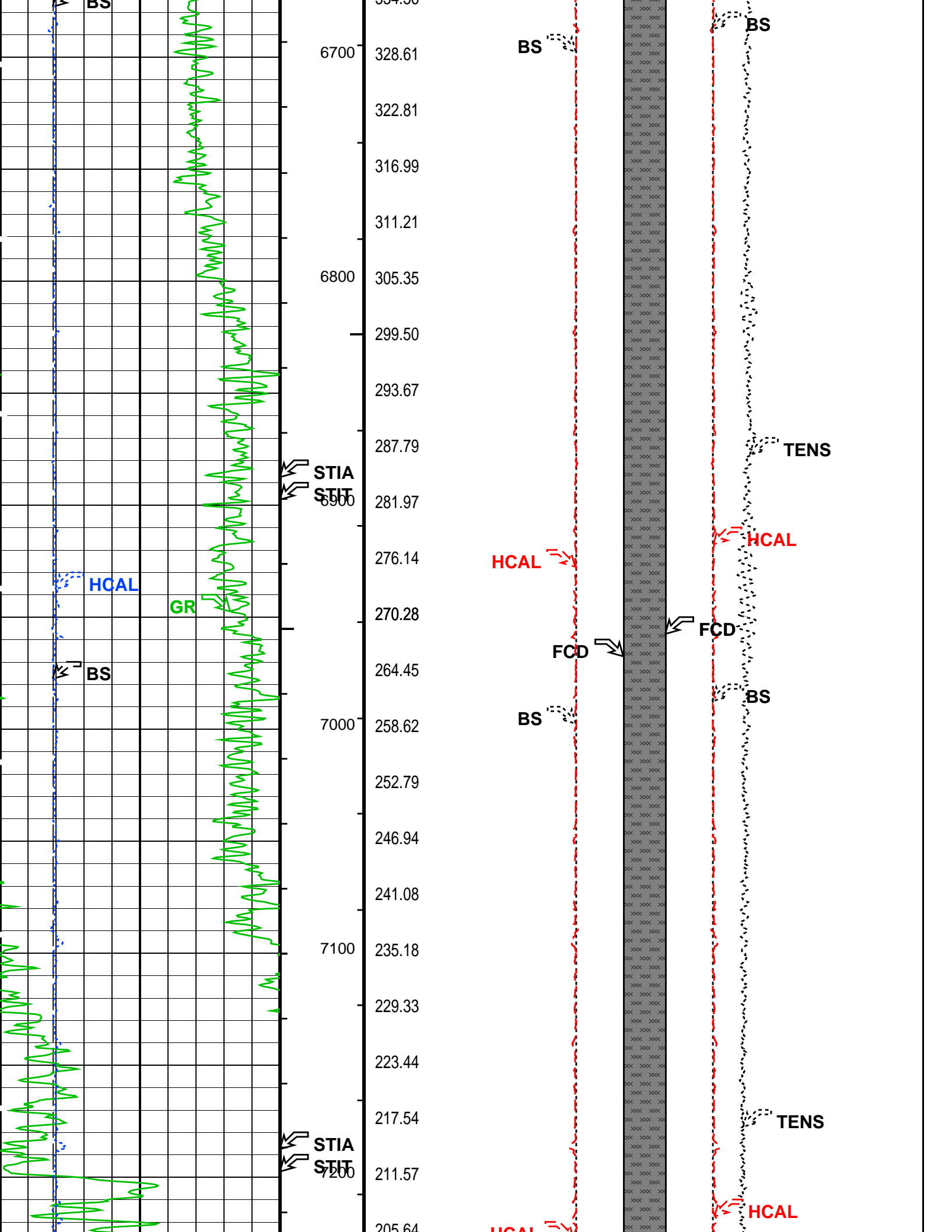
FCD

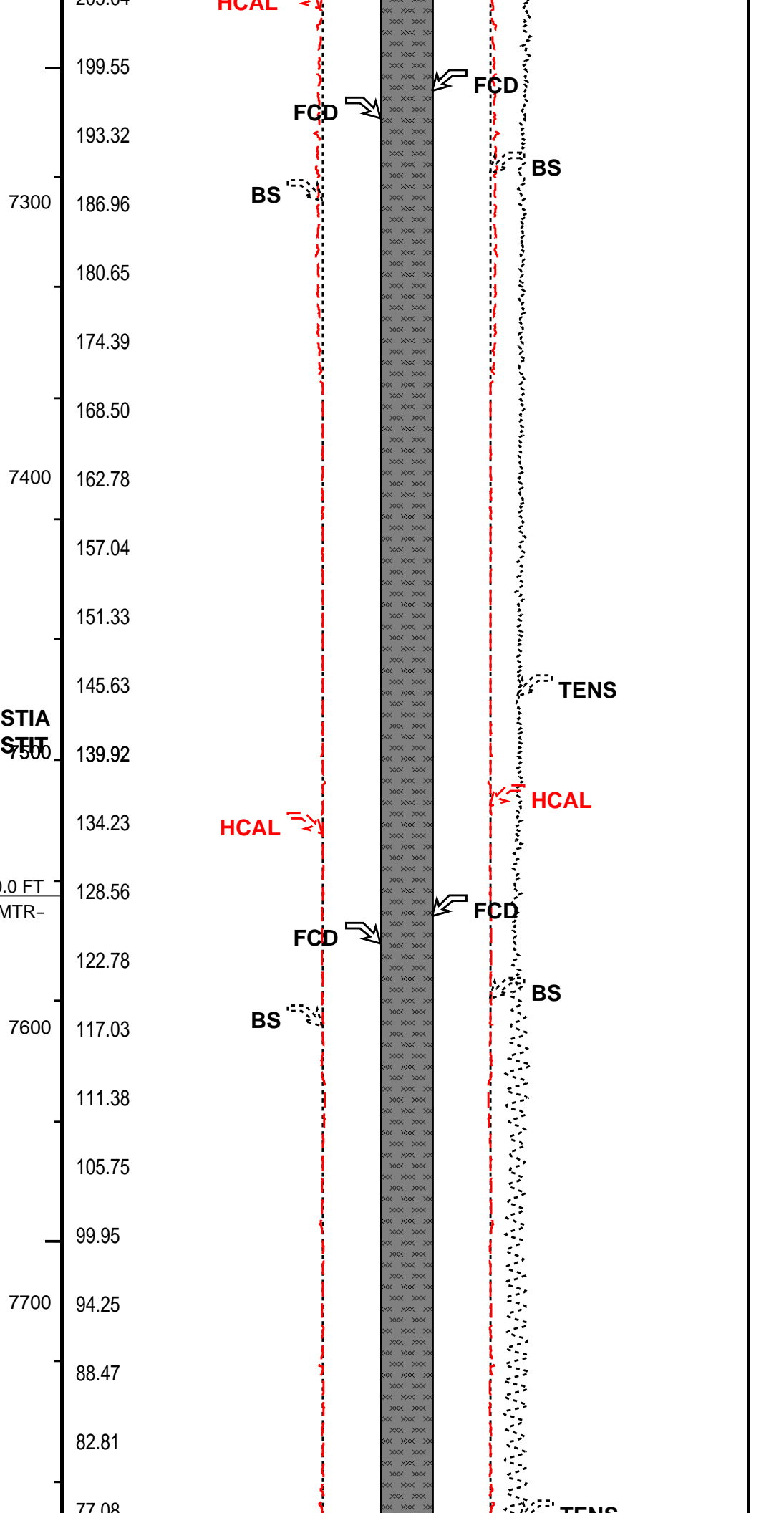
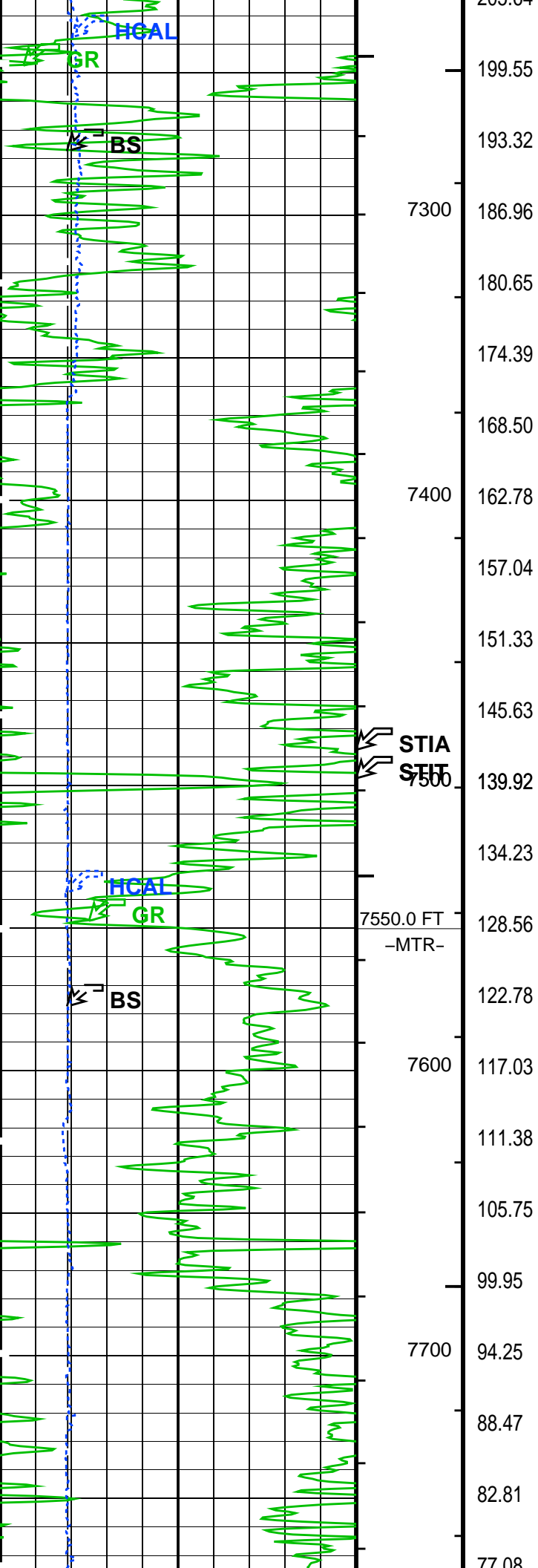
BS

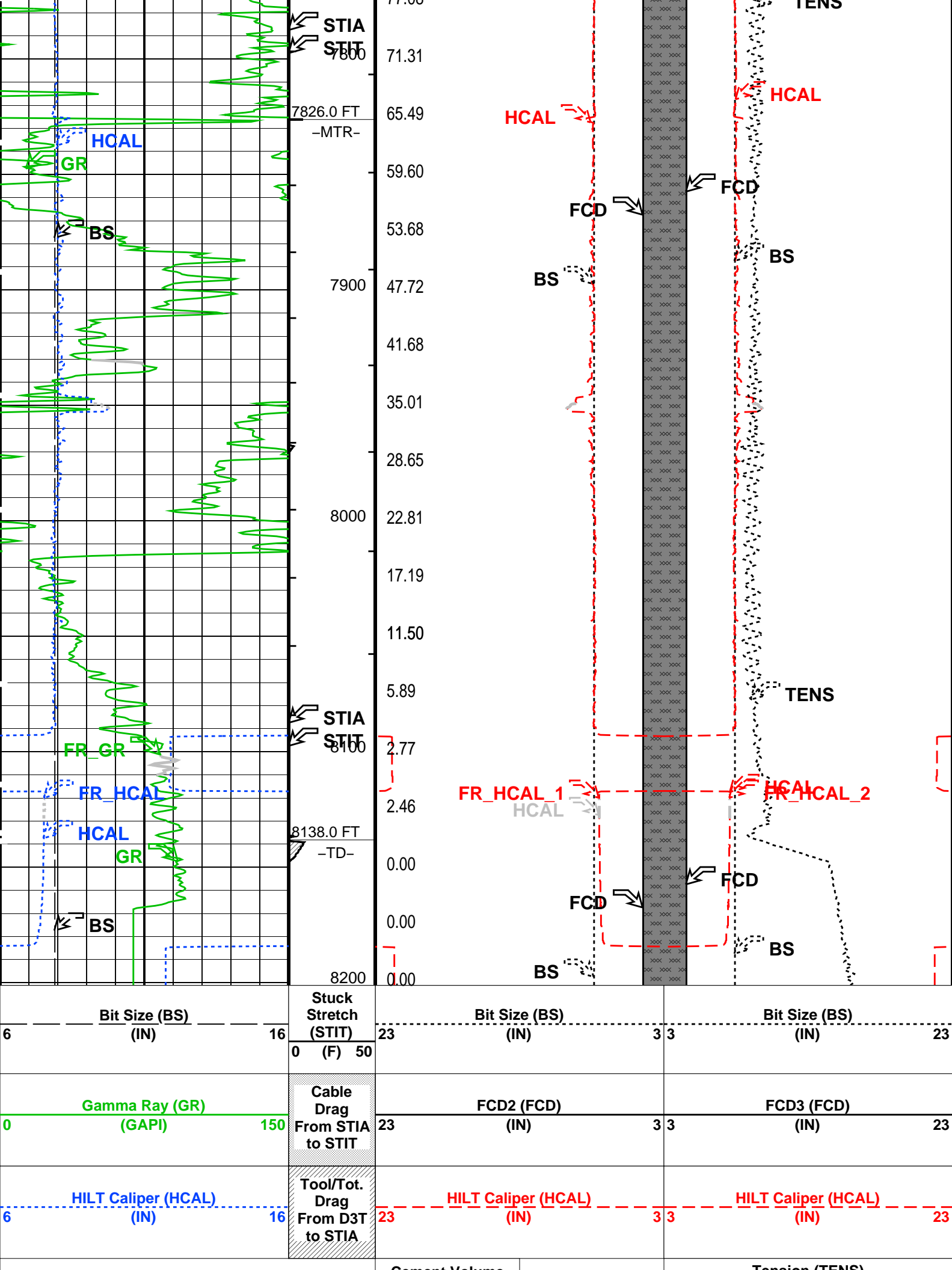
TENS

HCAL









	Cement Volume (ICV) (F3)		6000	Tension (TENS) (LBF)	0
<div>FCD2 – FCD3</div> <div>From FCD2 to FCD3</div>					

<div>PIP SUMMARY</div> <div> <div>└ Integrated Hole Volume Minor Pip Every 10 F3</div> <div>└ Integrated Hole Volume Major Pip Every 100 F3 <div>└ Integrated Cement Volume Minor Pip Every 10 F3</div> <div>└ Integrated Cement Volume Major Pip Every 100 F3</div> </div> </div>					
<div>Time Mark Every 60 S</div>					

Parameters			
DLIS Name	Description	Value	
	HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	4.5	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	8177.00	FT
TDL	Total Depth – Logger	8138.00	FT
	System and Miscellaneous		
BS	Bit Size	7.875	IN
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	8138	FT

Format: G_DCAL_FORMAT	Vertical Scale: 2" per 100'	Graphics File Created: 28-Feb-2010 02:34
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OP System Version: 17C0–154					
HILTB-CTS	17C0–154				

Input DLIS Files					
	HILTC .020	FN:19	28-Feb-2010 02:16	8201.0 FT	750.0 FT
Output DLIS Files					
DEFAULT	AIT_TLD_MCFL_CNL_024PUP	FN:24	PRODUCER	28-Feb-2010 02:34	

Company:	Kerr–McGee Oil & Gas Onshore, LP	Schlumberger
Well:	Frank 3–5	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Platform Express		
Cement Volume		
Caliper		