

**Schlumberger**

Company: **Vecta Oil & Gas Ltd**

Well: **Quandary 23-26**

Field: **Wildcat**

County: **Cheyenne**

State: **Colorado**

Well: **Quandary 23-26**  
Field: **Wildcat**  
County: **Cheyenne**  
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[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				

Limestone (2.71 g/cc) run over a second repeat pass and the main pass	

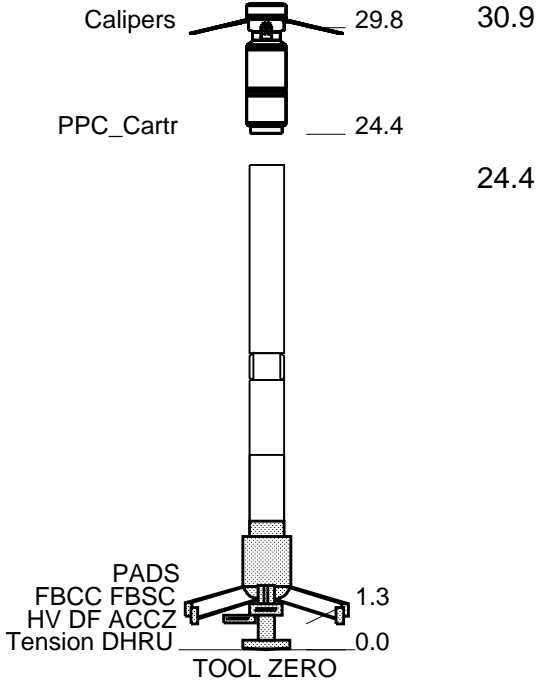
Rig: Black Gold 69	
Crew: Derrick Hunter, Matt Roche	

RUN 1 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
		BFN8-00'61 19C0-187 300 ft			
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

SURFACE EQUIPMENT				
WITM (EDTS)-A				
DOWNHOLE EQUIPMENT				
LEH-QT LEH-QT			81.6	
EDTC-B EDTH-B EDTC-B EDTG-A/B	MDSB_EDTC Mud Tempe  CTEM Gamma Ray EFTB DIAG TelStatus EDTCB Ele		78.7 75.2 73.3 72.2	78.7
MAPC-B MAPC-BA ECH-SF MAMS-BA			72.2	
	MAMS-PS		56.8	
MAXS-B MASS-BA MAXS-BA			51.2	
	MAXS-PS		30.9	

PPC1  
PPC1-B  
PPC\_CAL\_STD



FBST-B  
ECH-MRA  
FBCC-A  
AH-185  
FBSH-A  
GPIC-F  
FBSC-B  
FBSS-B

MAXIMUM STRING DIAMETER 5.00 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN FEET

Schlumberger

MAIN MICRO LOG 5" = 100'

MAXIS Field Log

Output DLIS Files

DEFAULT AIT\_TLD\_MCFL\_CNL\_016LUP FN:15 PRODUCER 20-Mar-2012 06:47 5928.0 FT 338.5 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 2350.66 F3  
Cement Volume = 1447.82 F3 (assuming 5.50 IN casing O.D.)  
Computed from 5907.0 FT to 435.0 FT using data channel(s) HCAL

OP System Version: 19C0-187

AIT-M 19C0-187 HILTH-FTB 19C0-187  
DTC-H 19C0-187

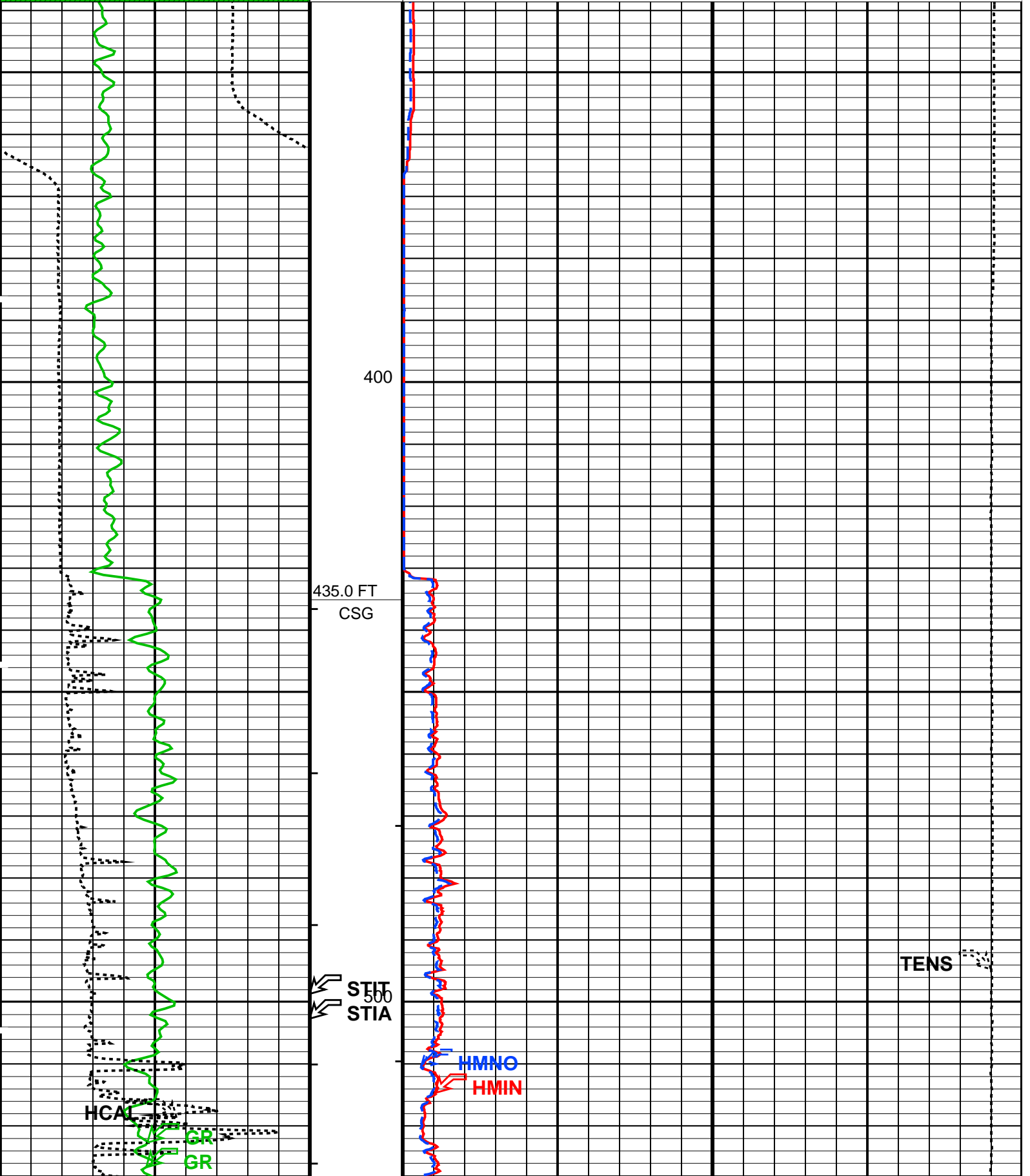
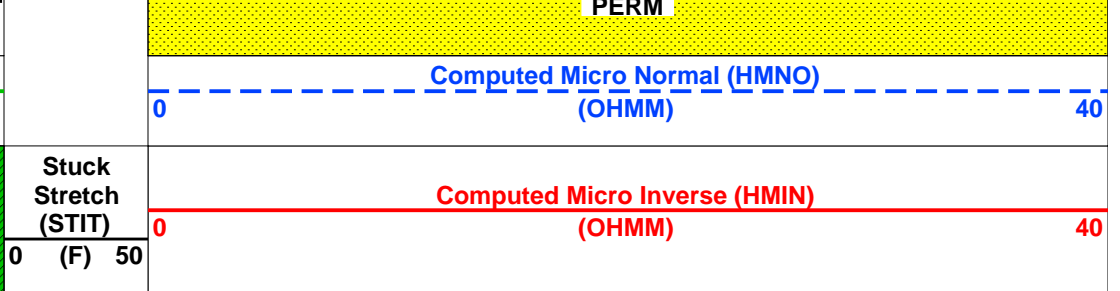
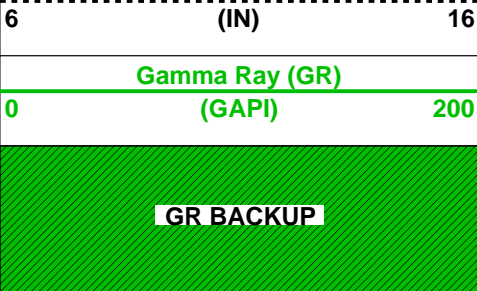
PIP SUMMARY

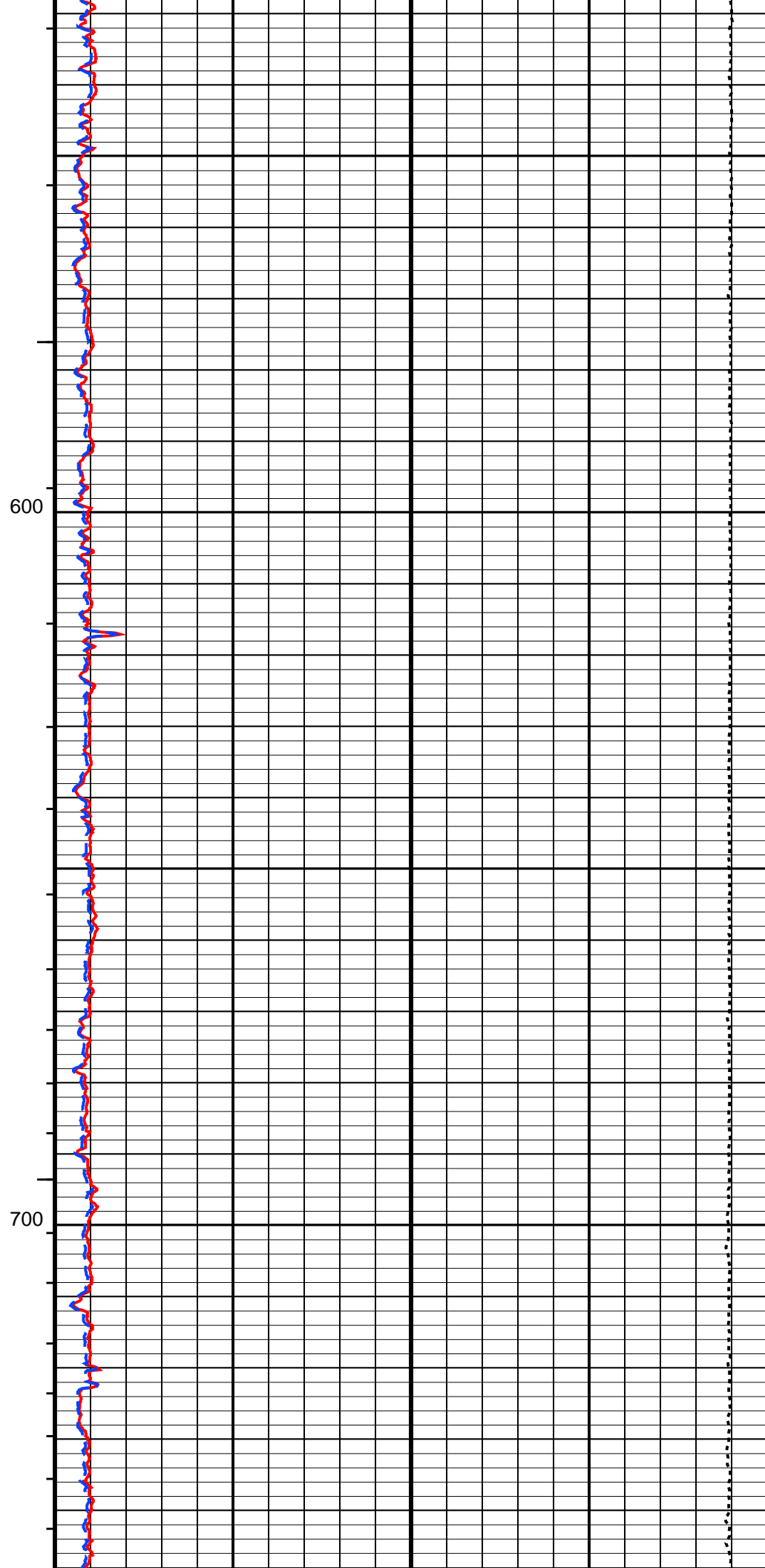
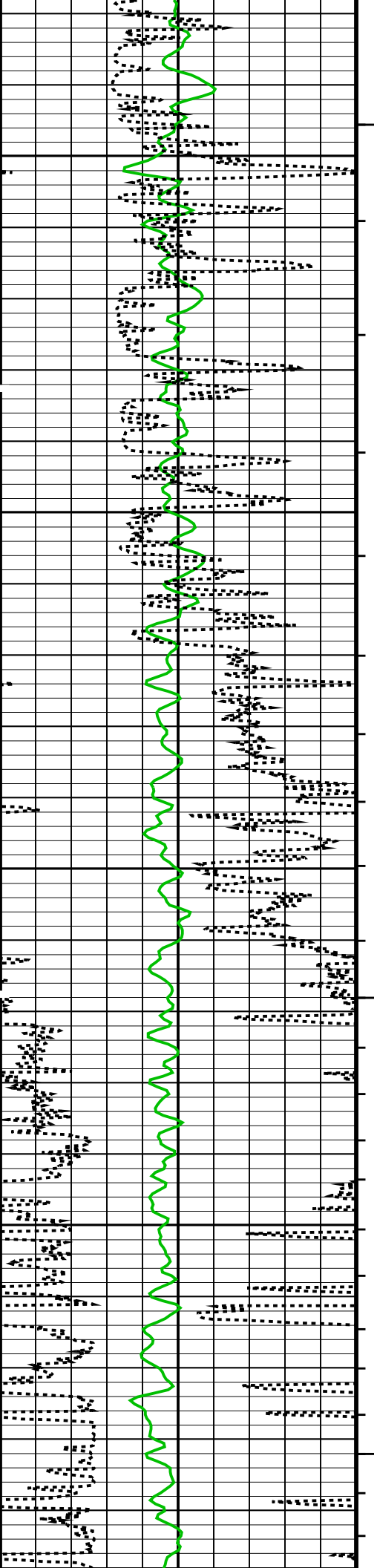
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

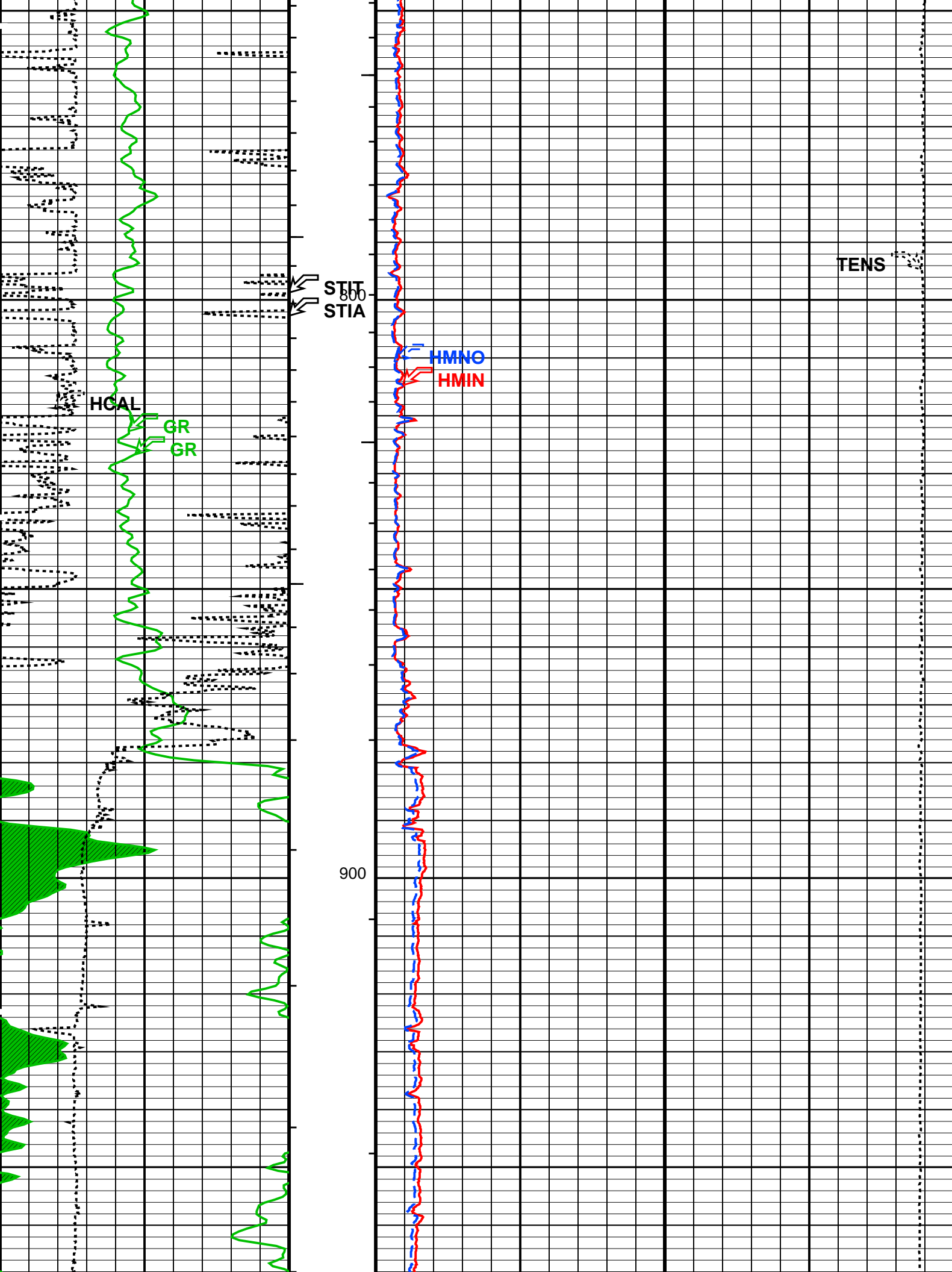
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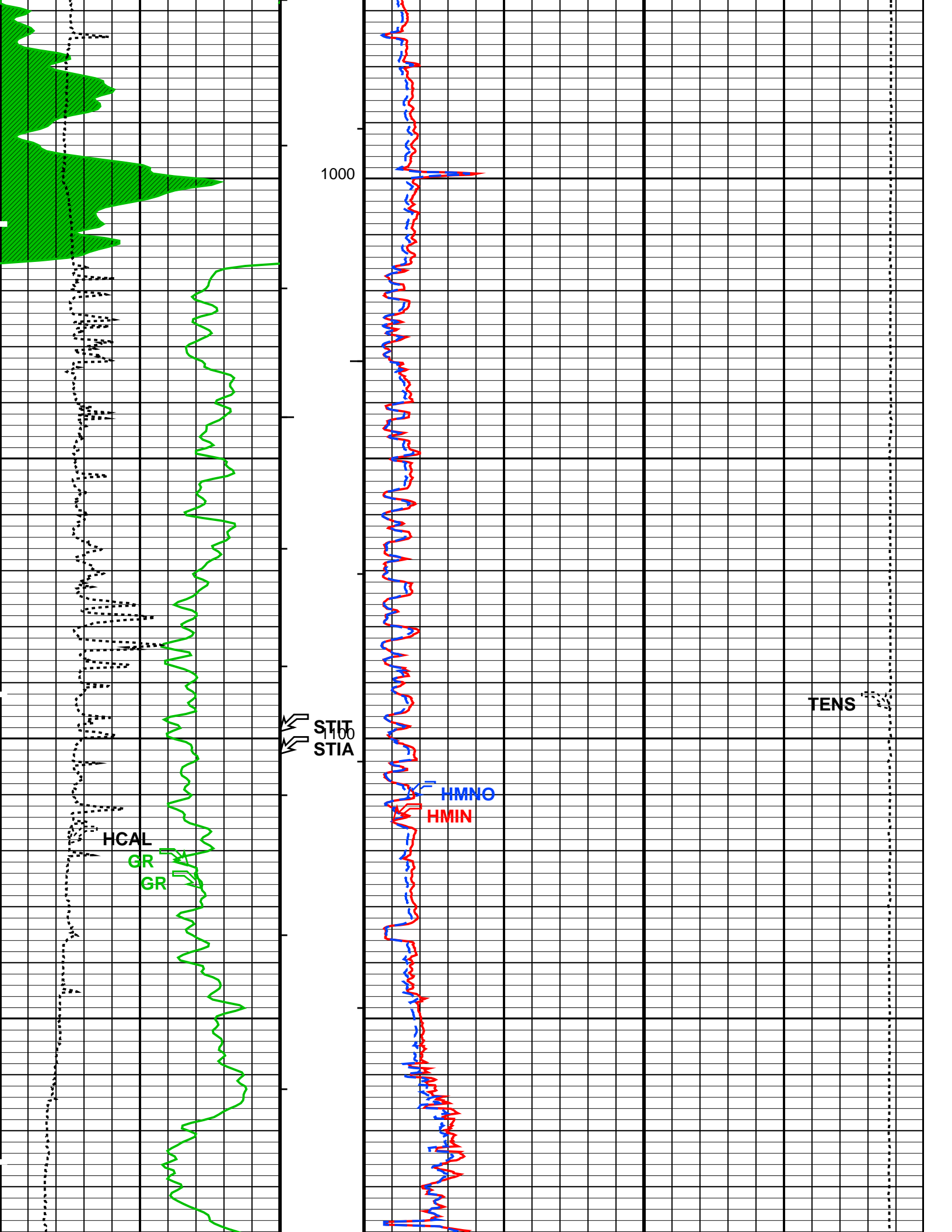
Tension (TENS)  
10000 (LBF) 0

Caliper (HCAL)

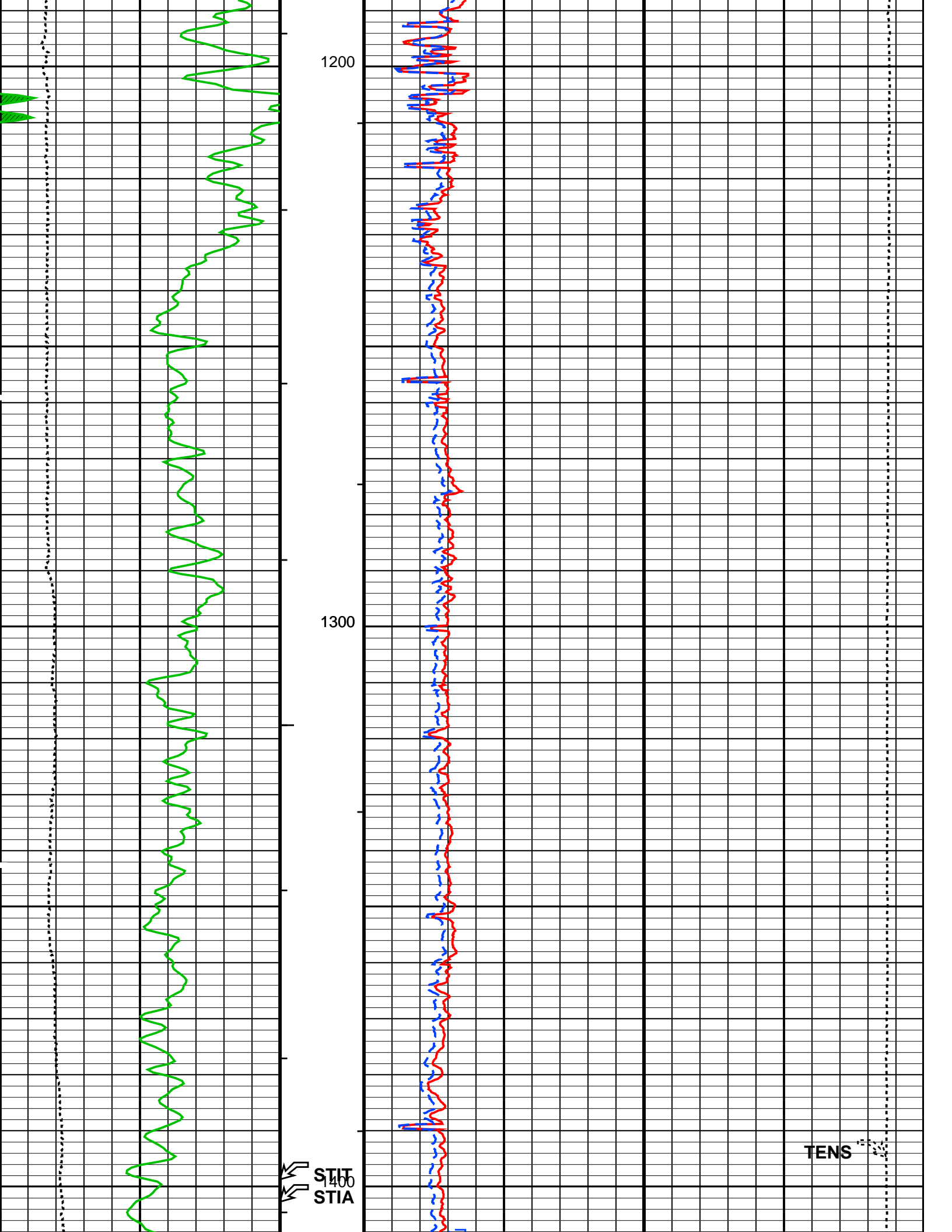


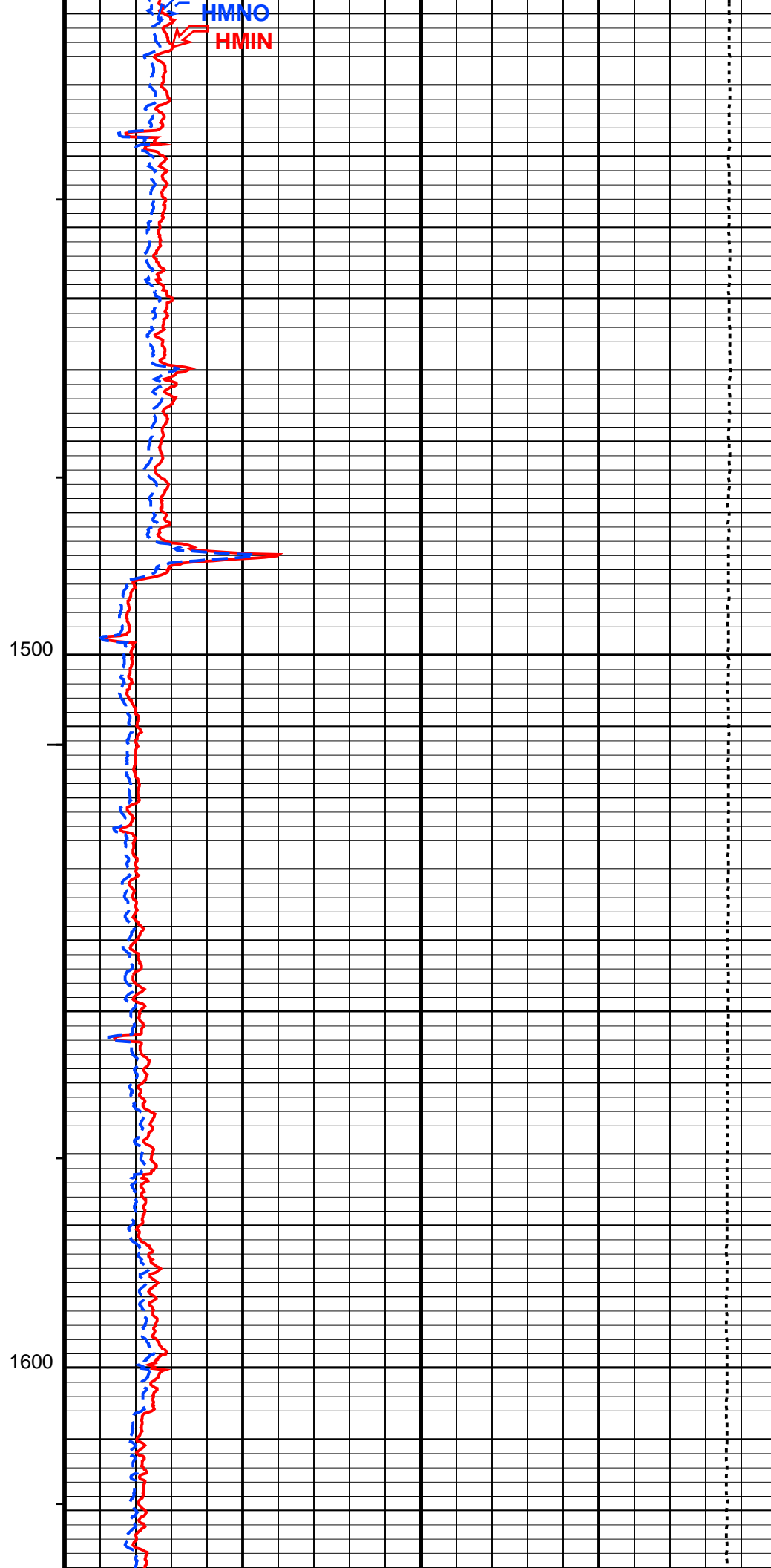
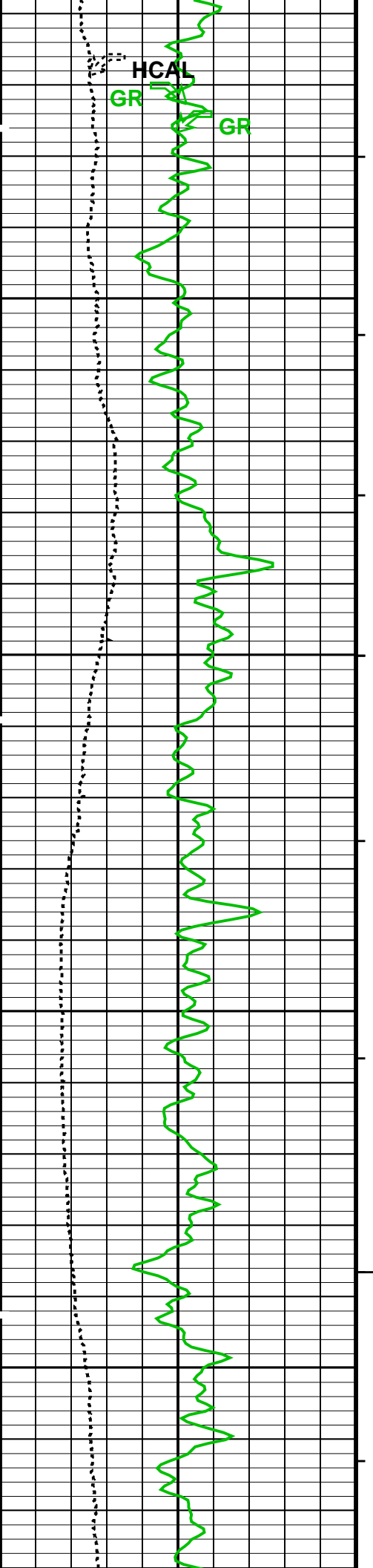


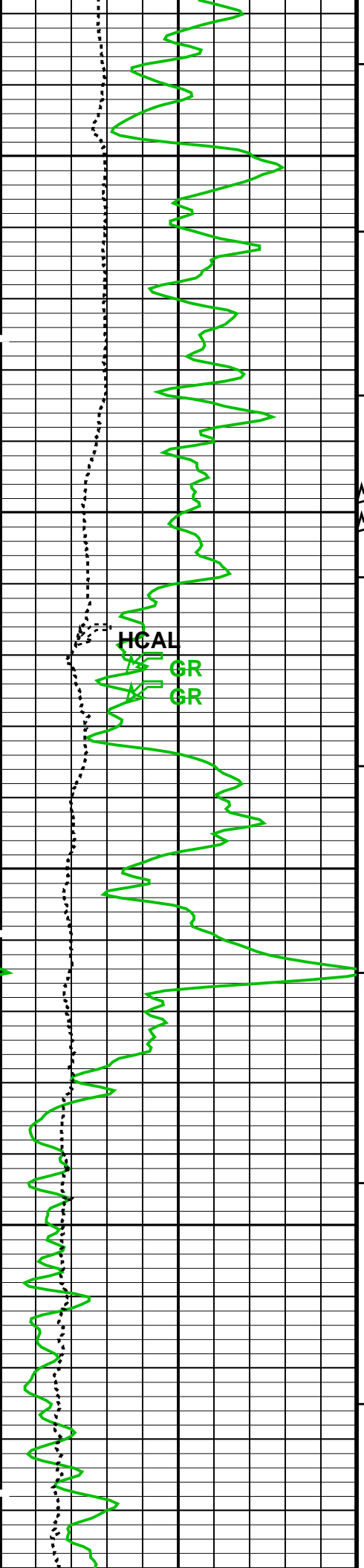










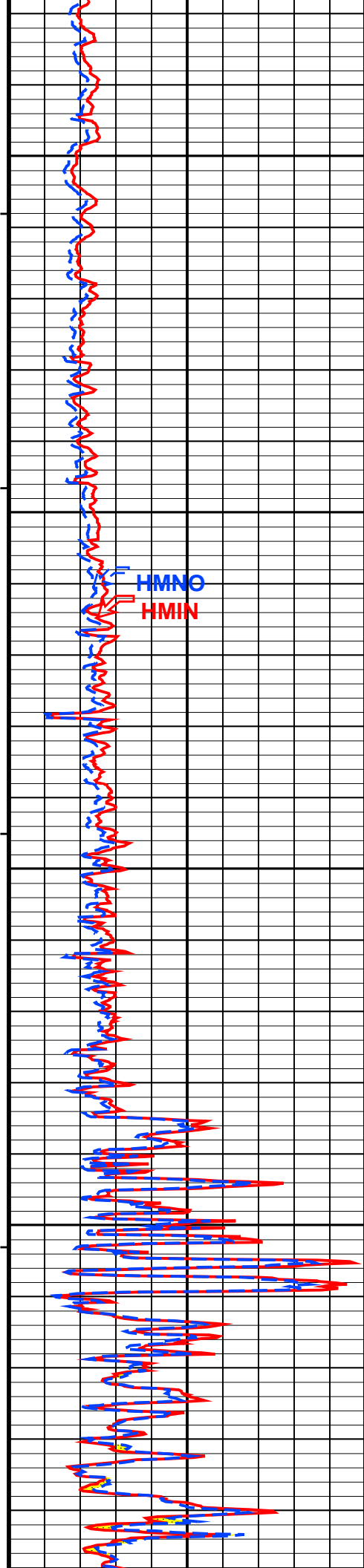


STIT  
STIA

HCAL

GR  
GR

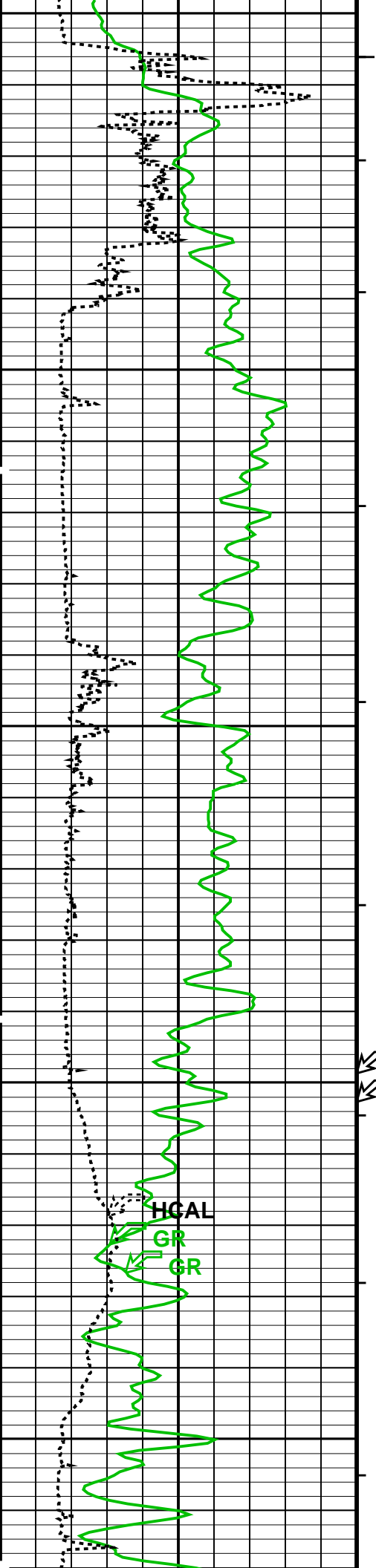
1800



HMNO

HMIN

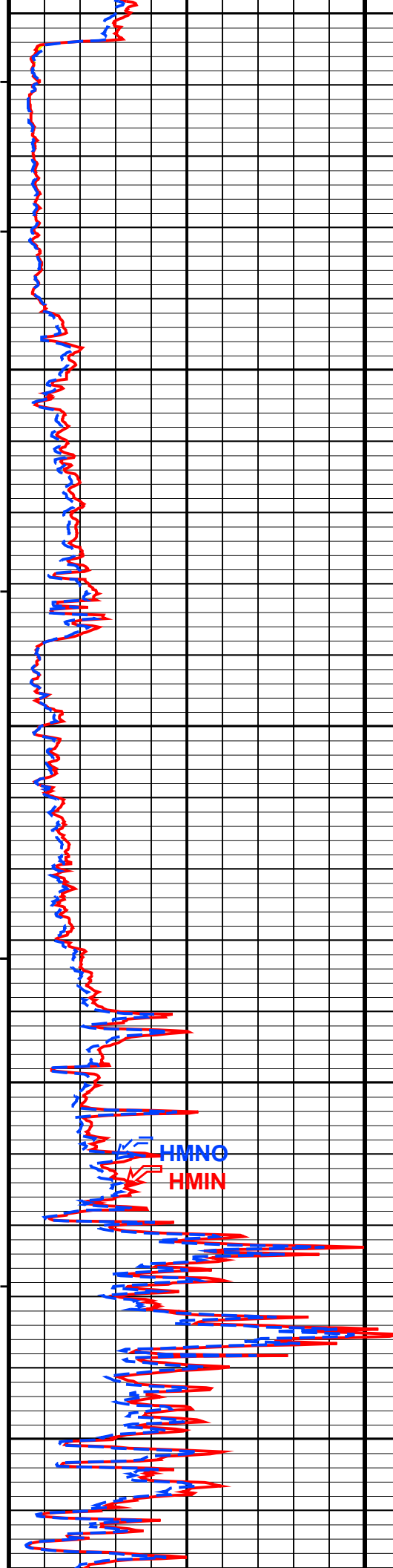
TENS



1900

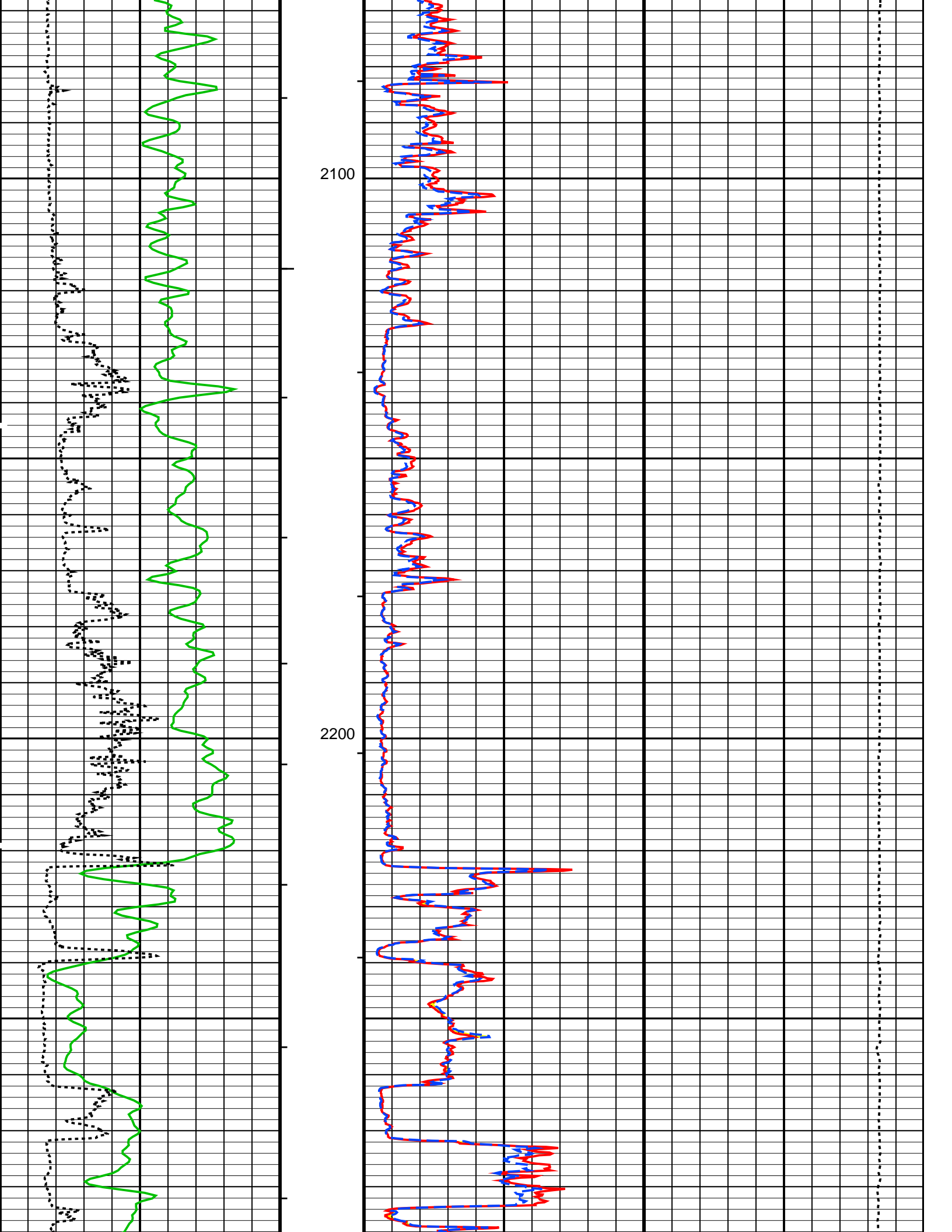
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2000  
STIA

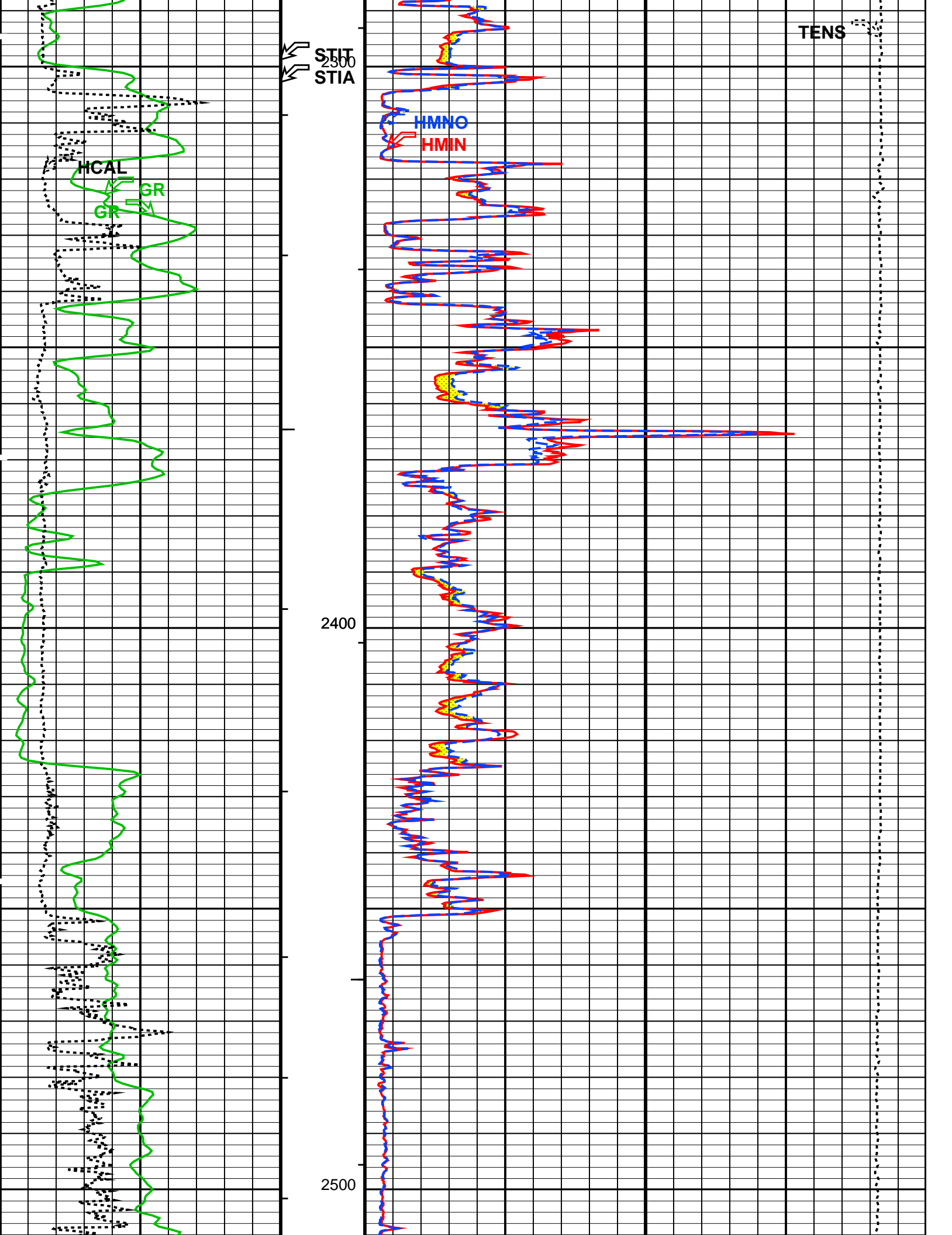
HCAL  
GR  
GR

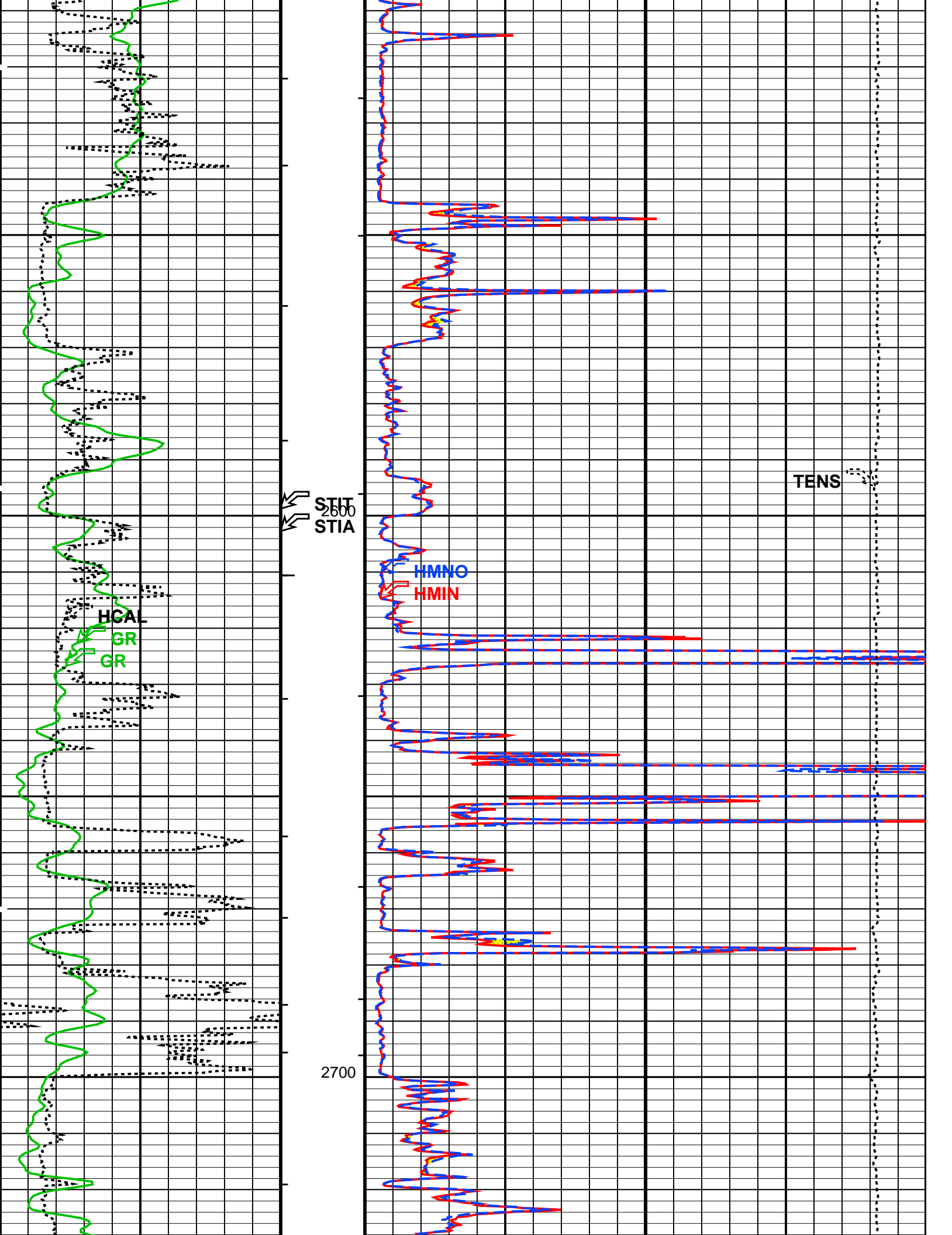


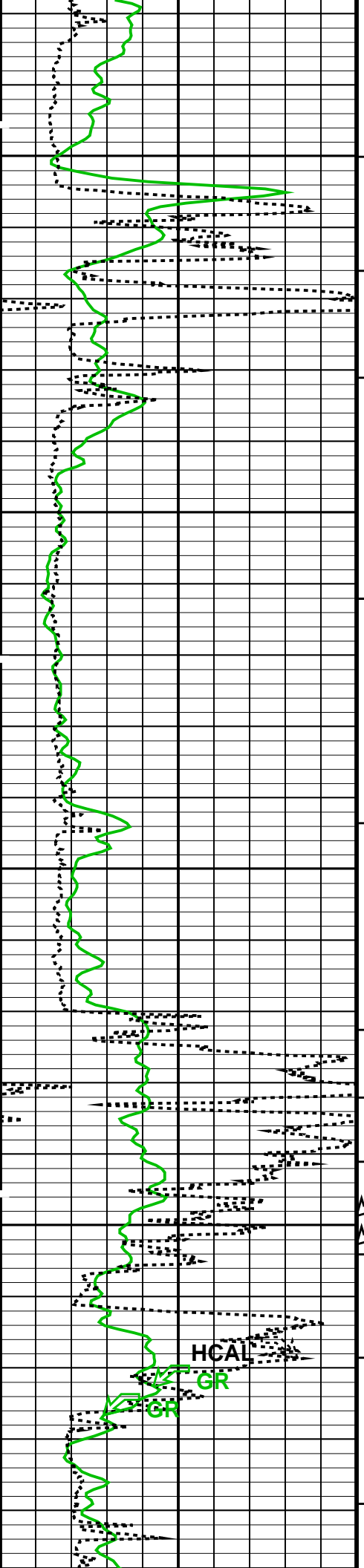
HMNO  
HMIN

TENS









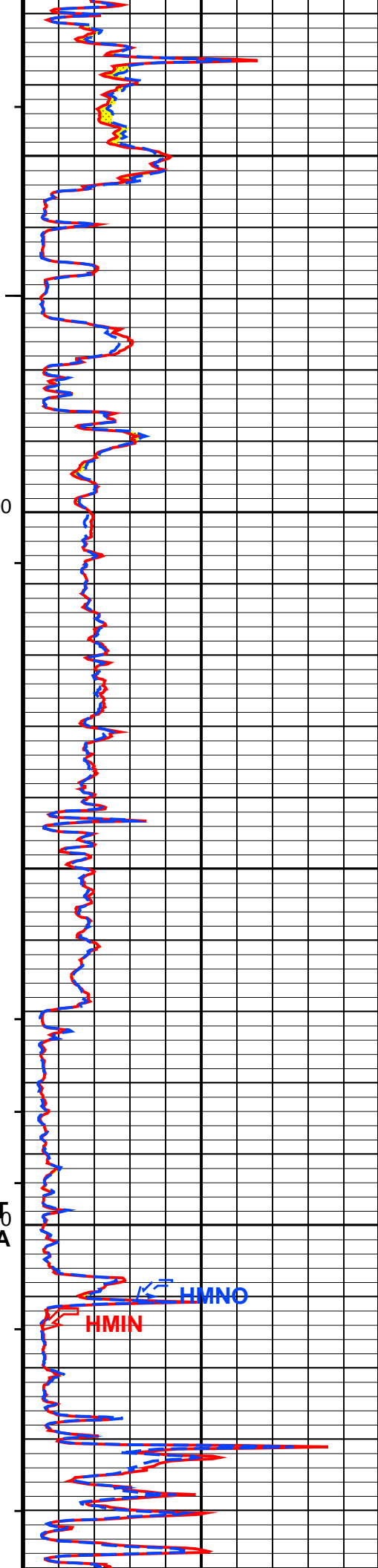
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STIT  
2900  
STIA

HCAI

GR

GR

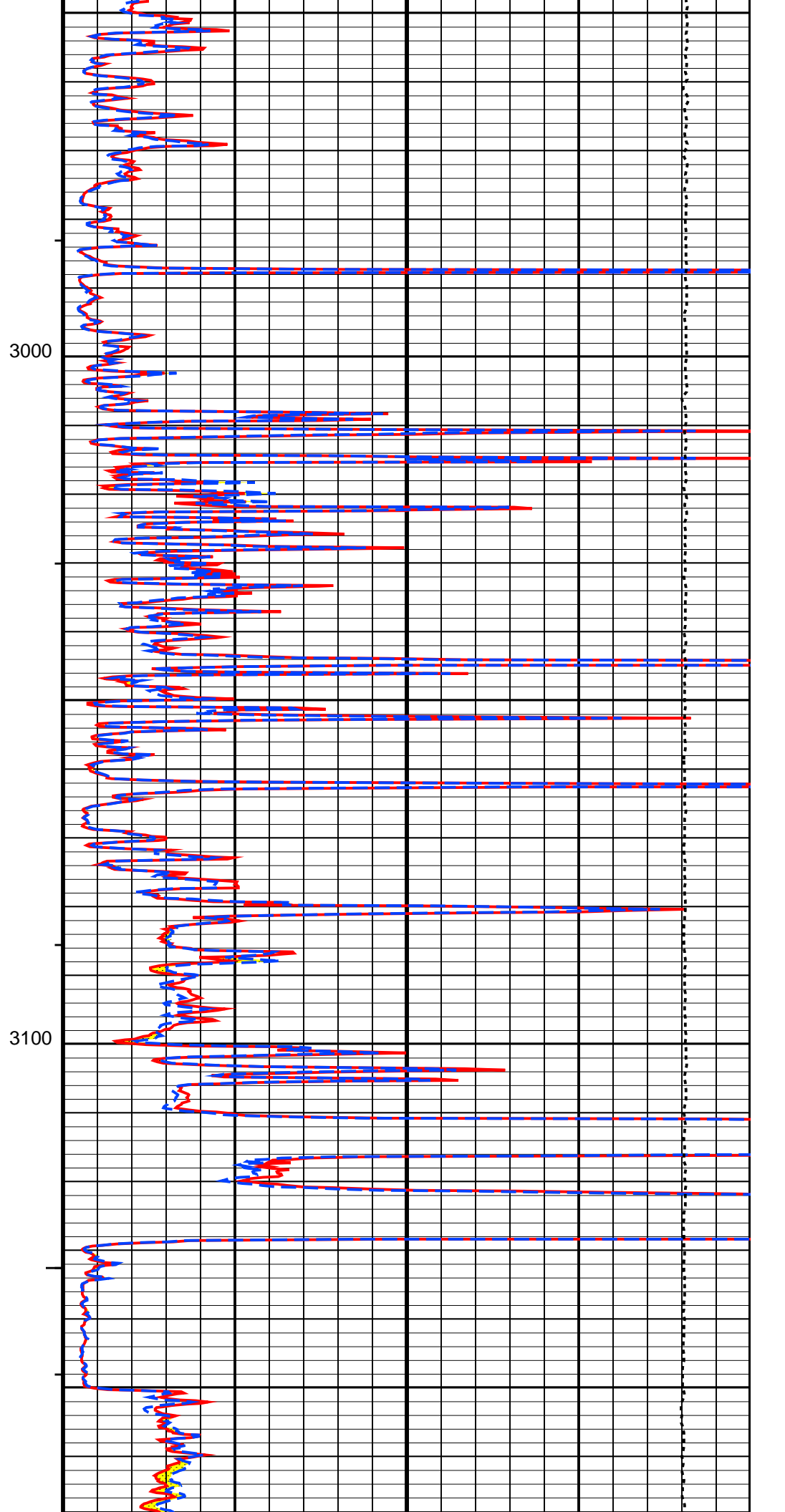
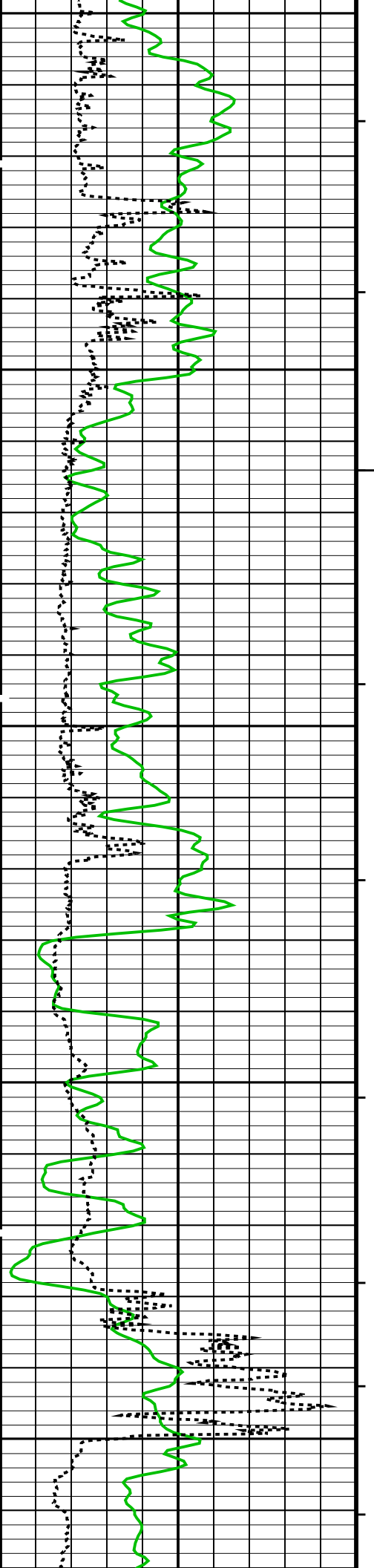


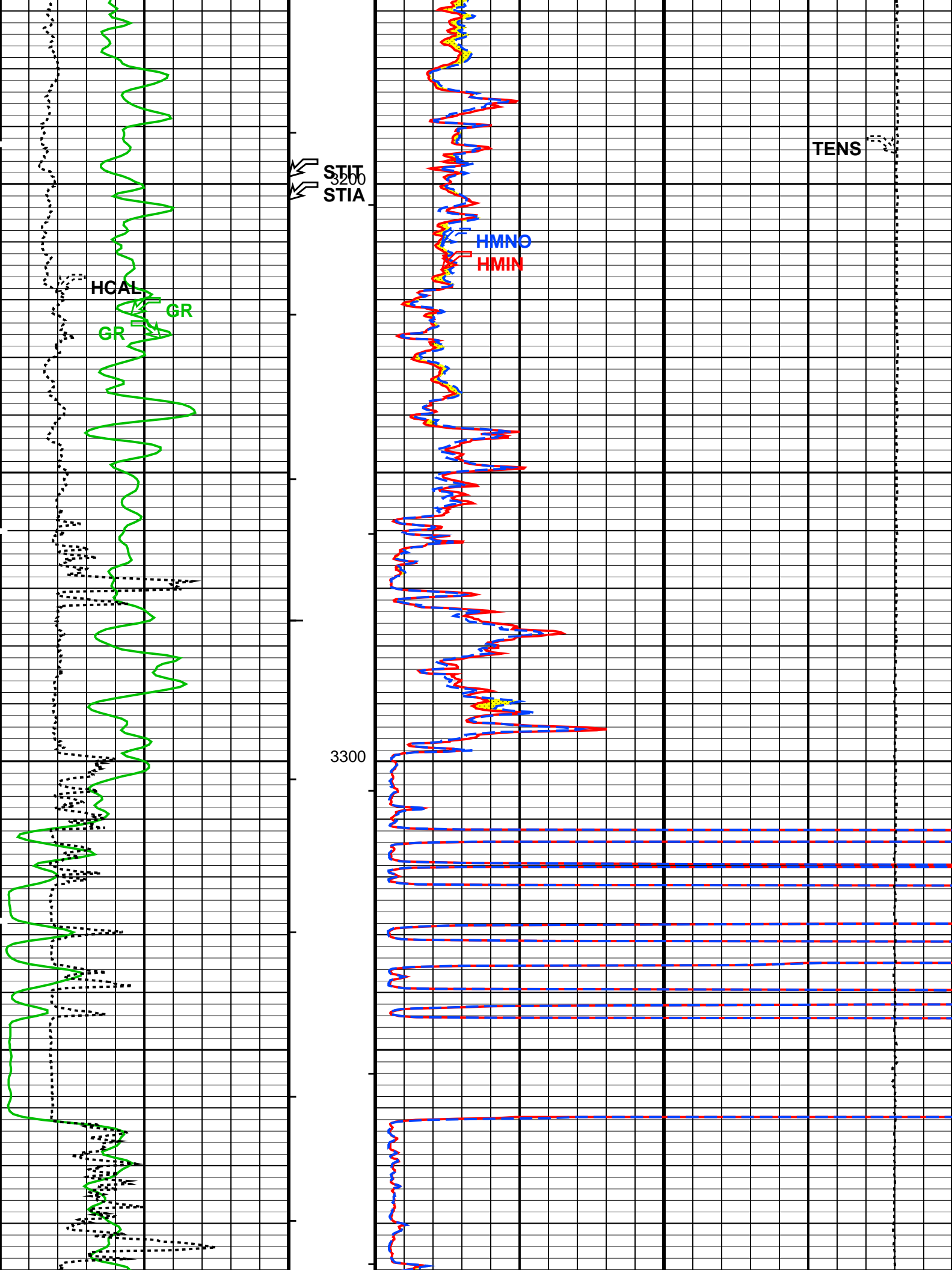
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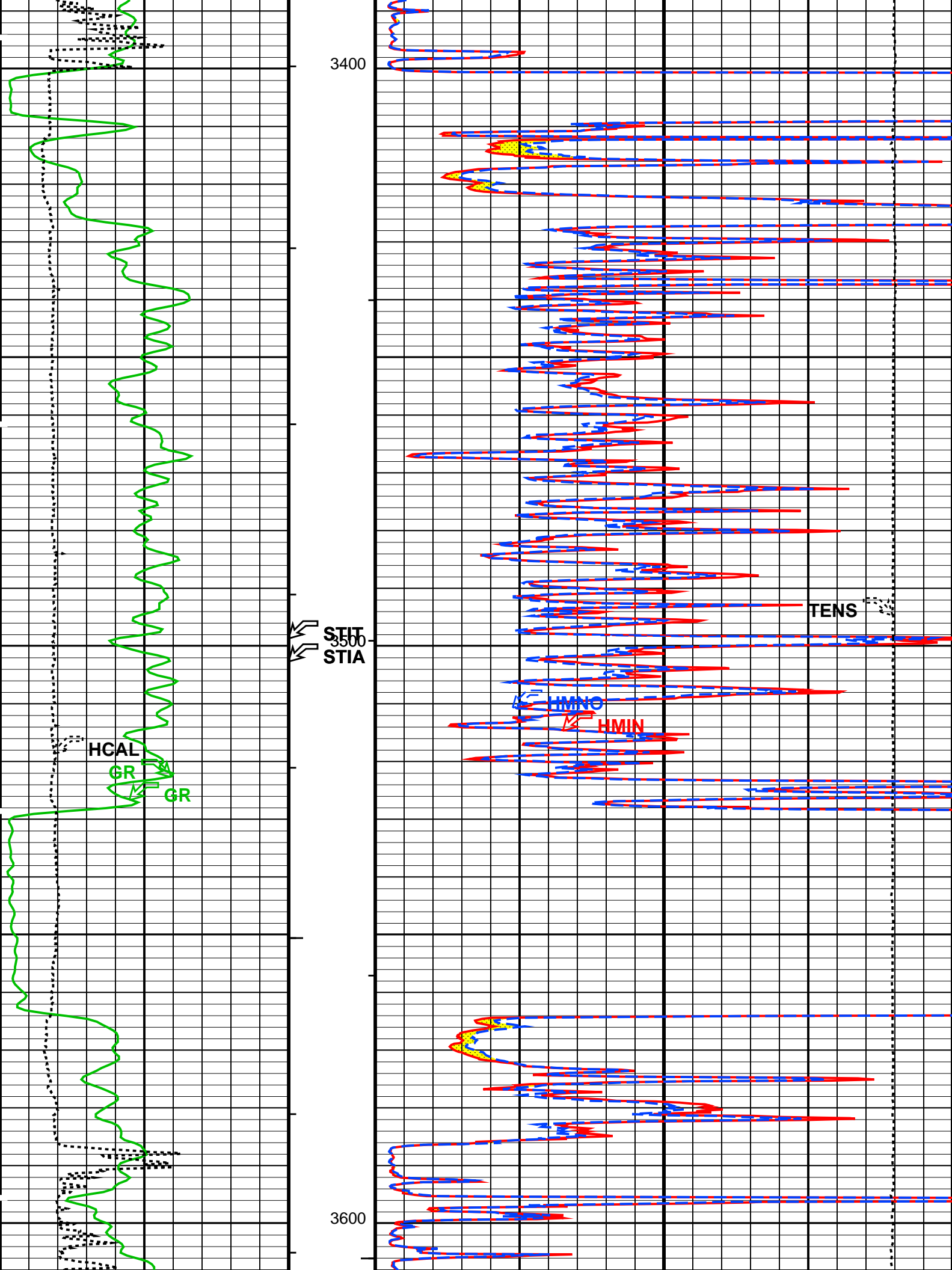
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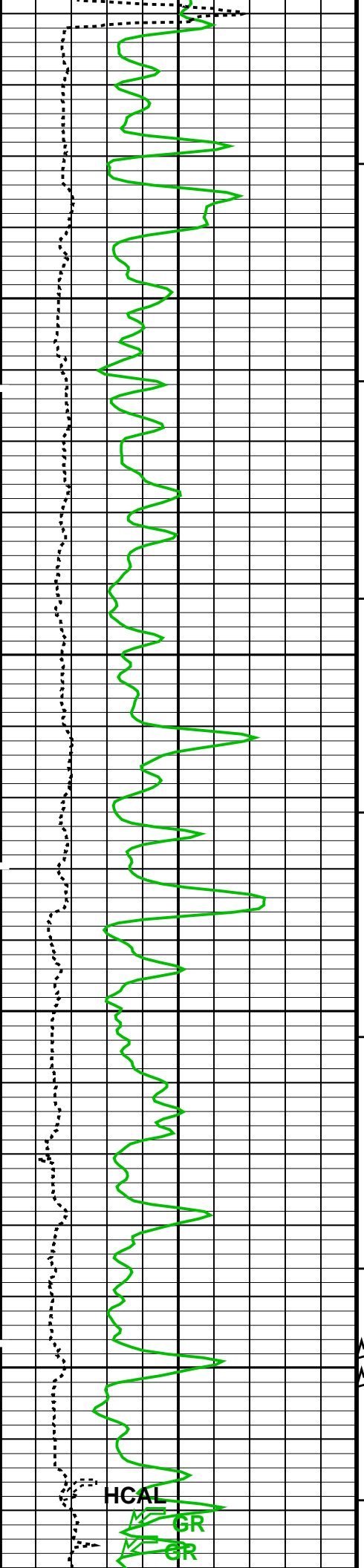
TENS





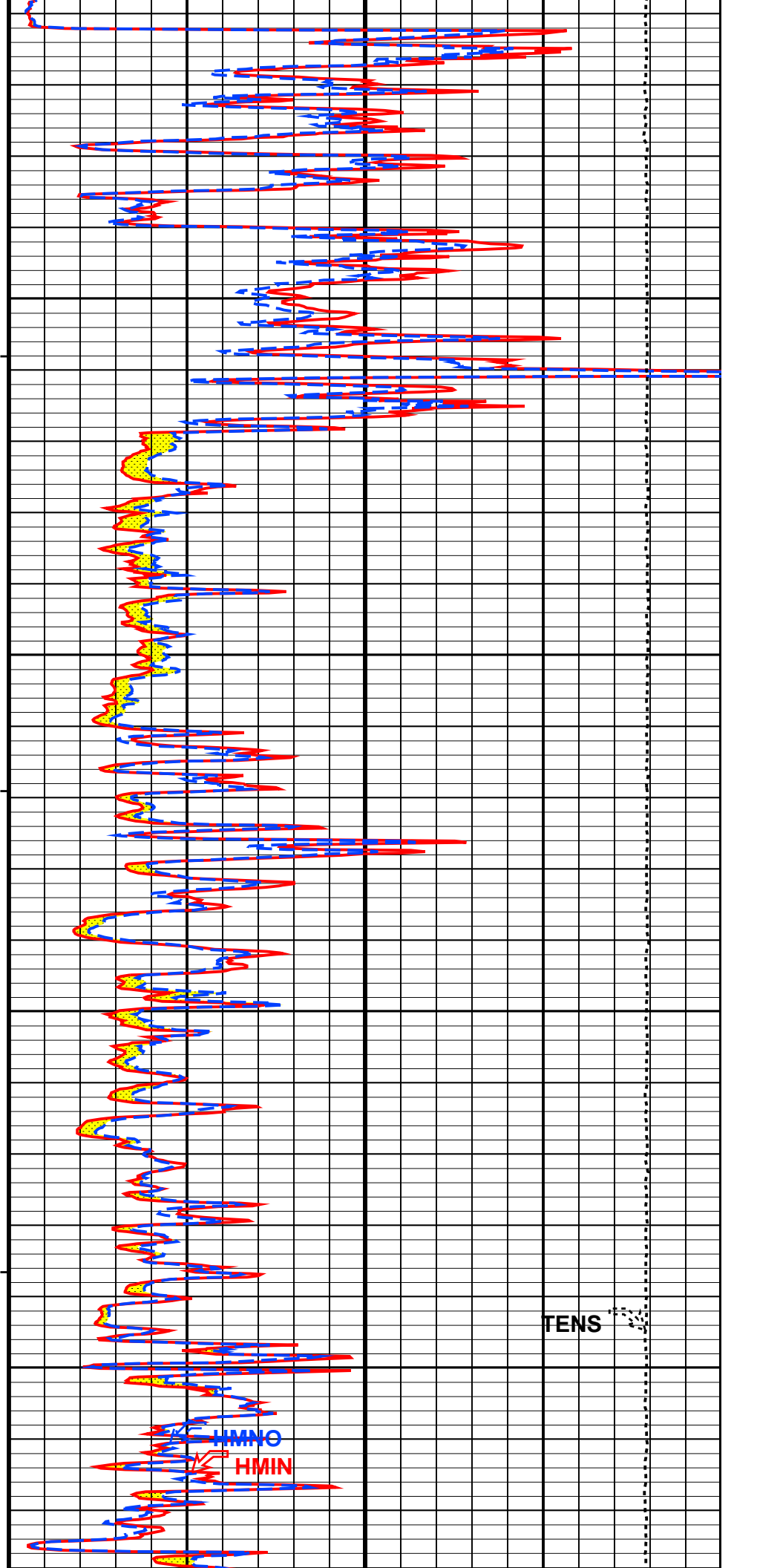


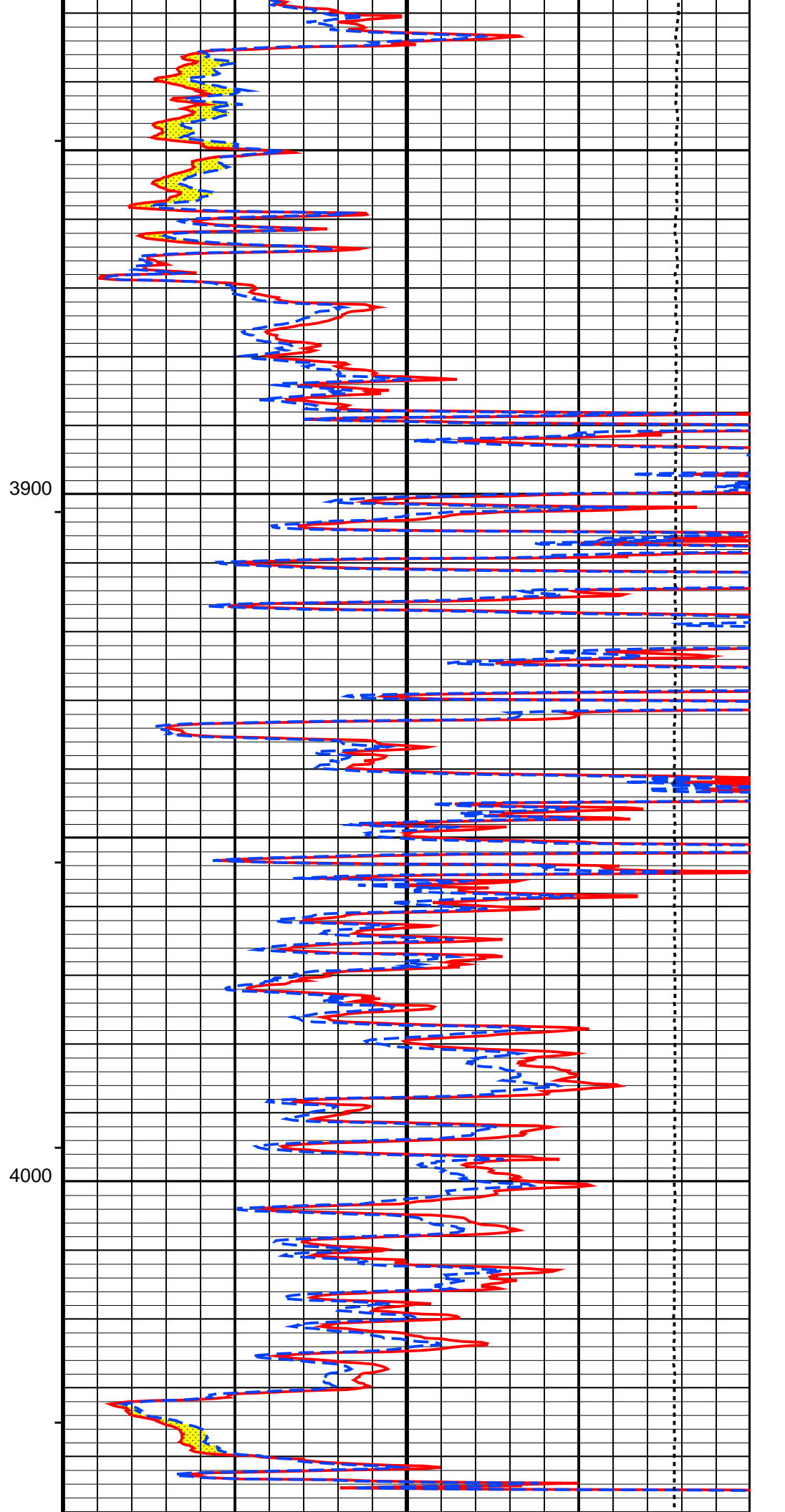
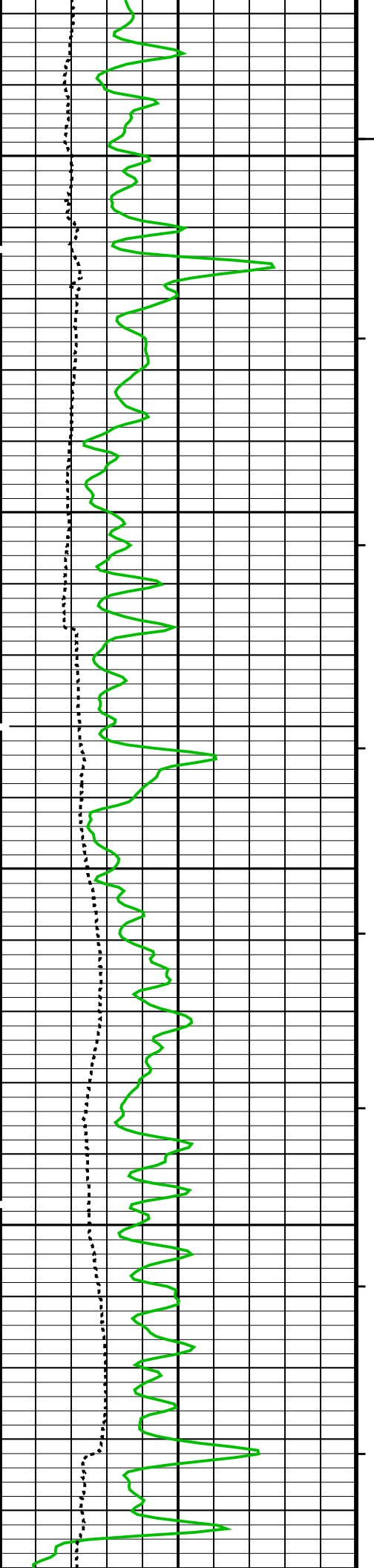


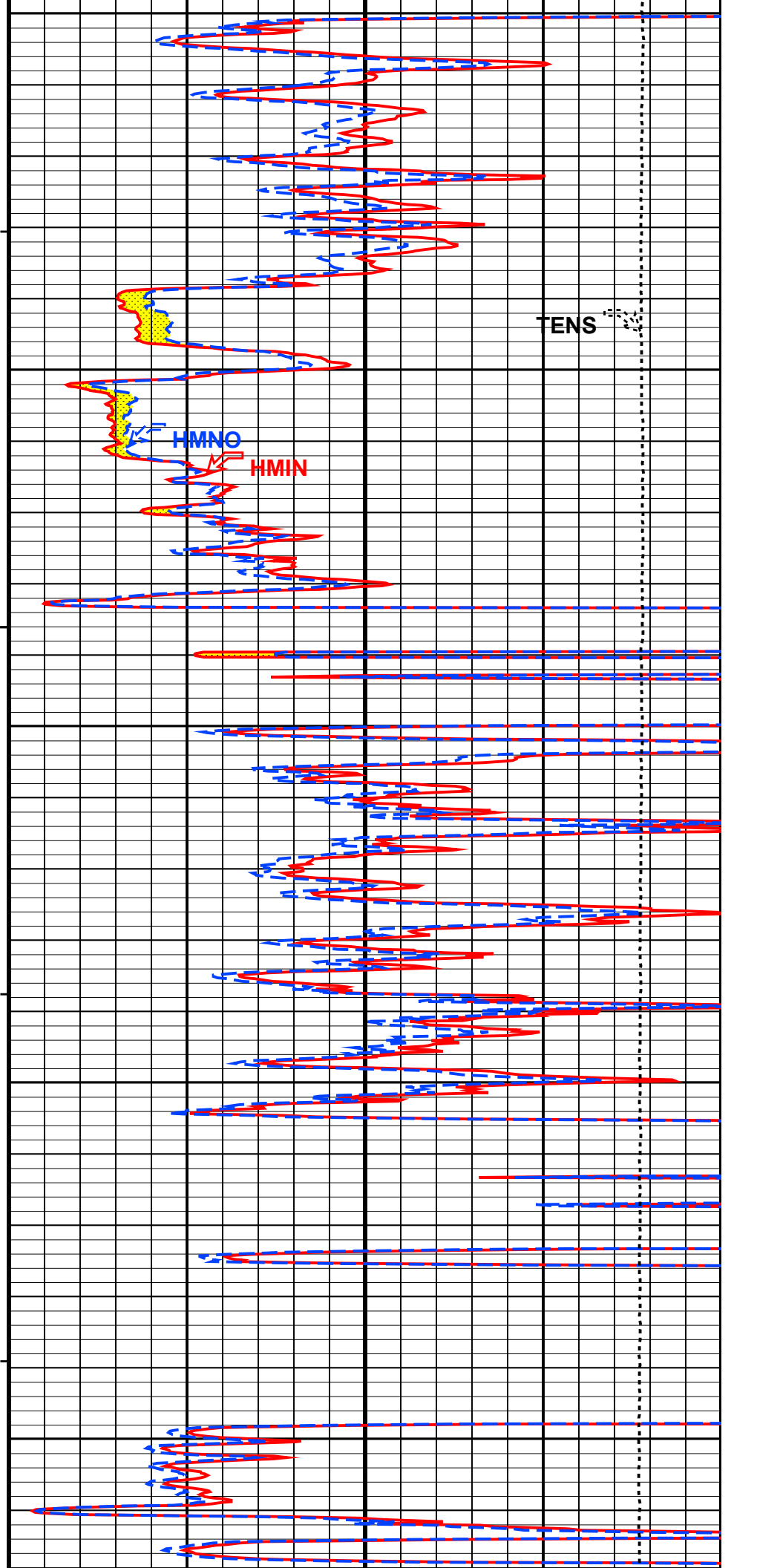
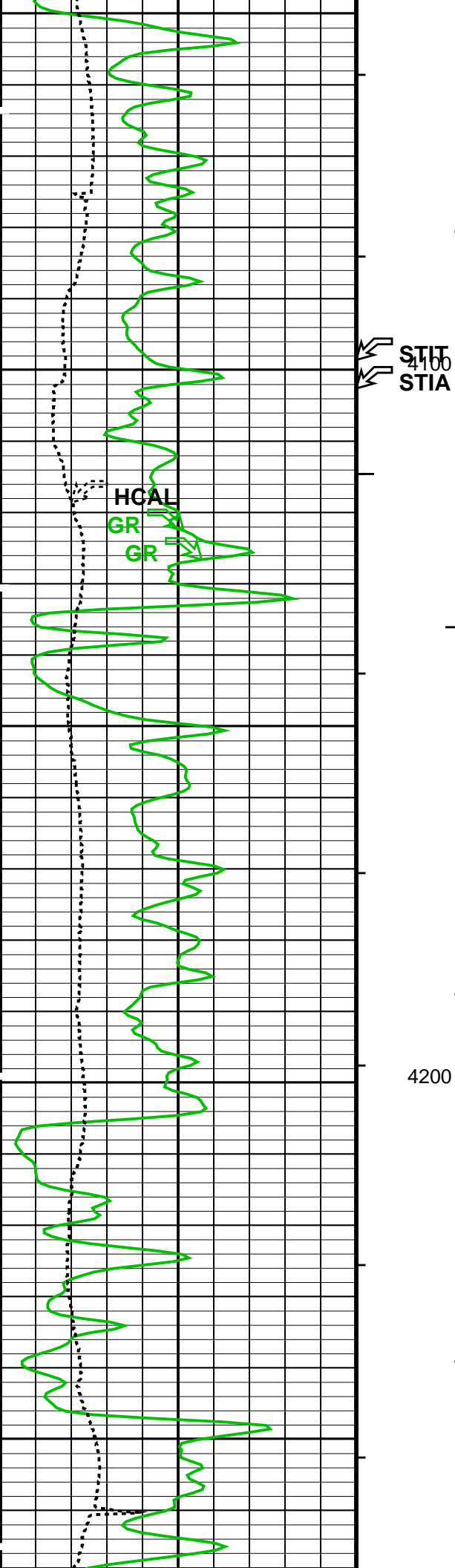


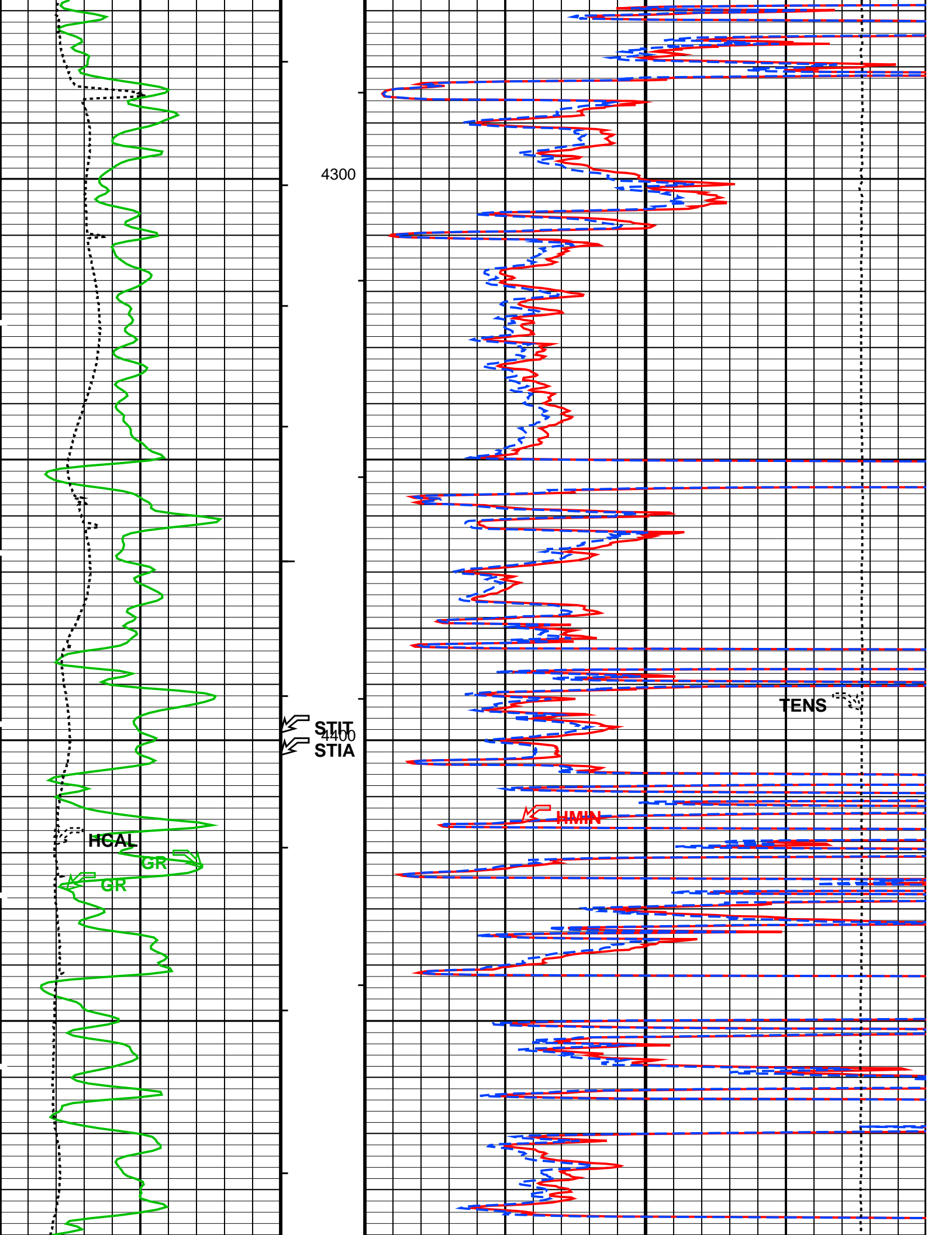
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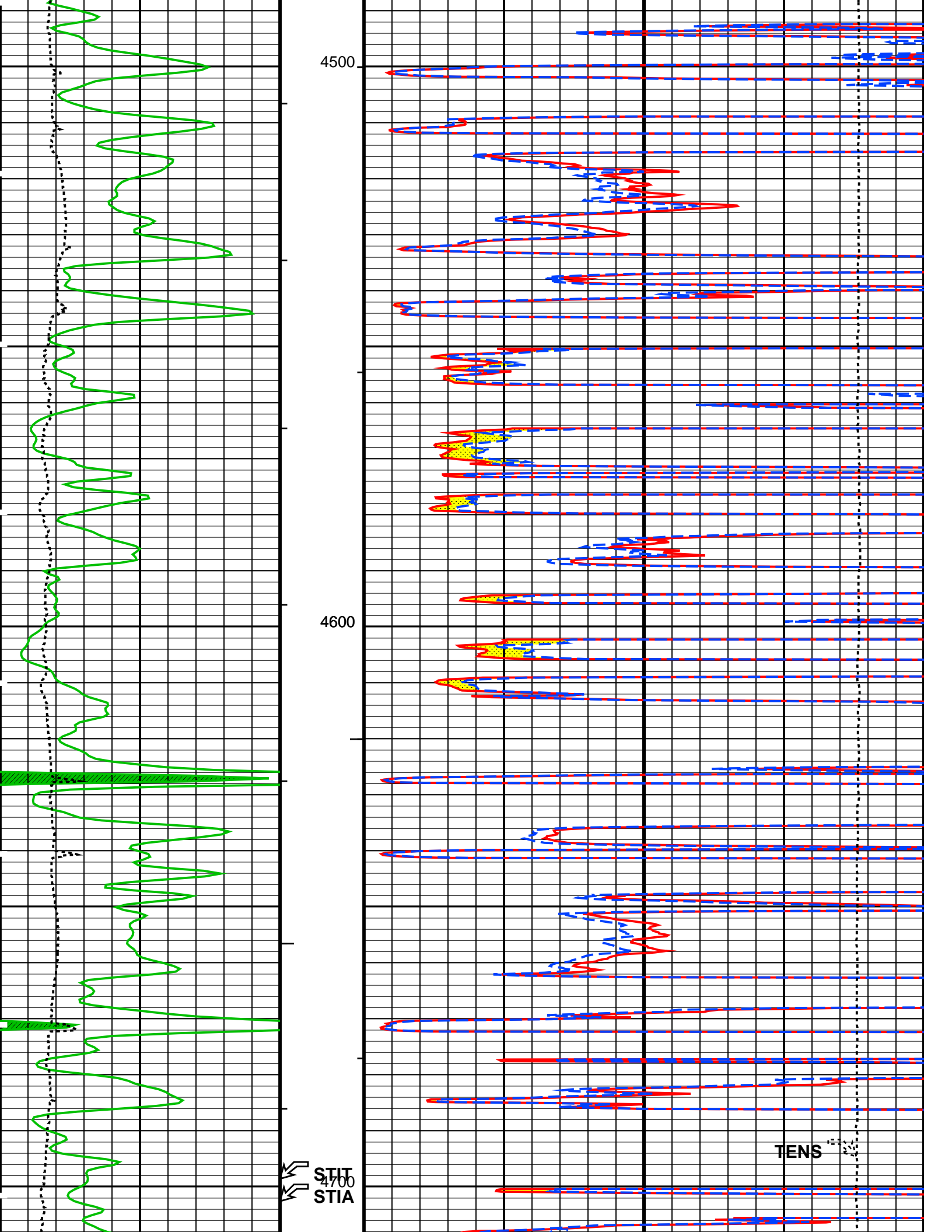
STIT  
3800  
STIA



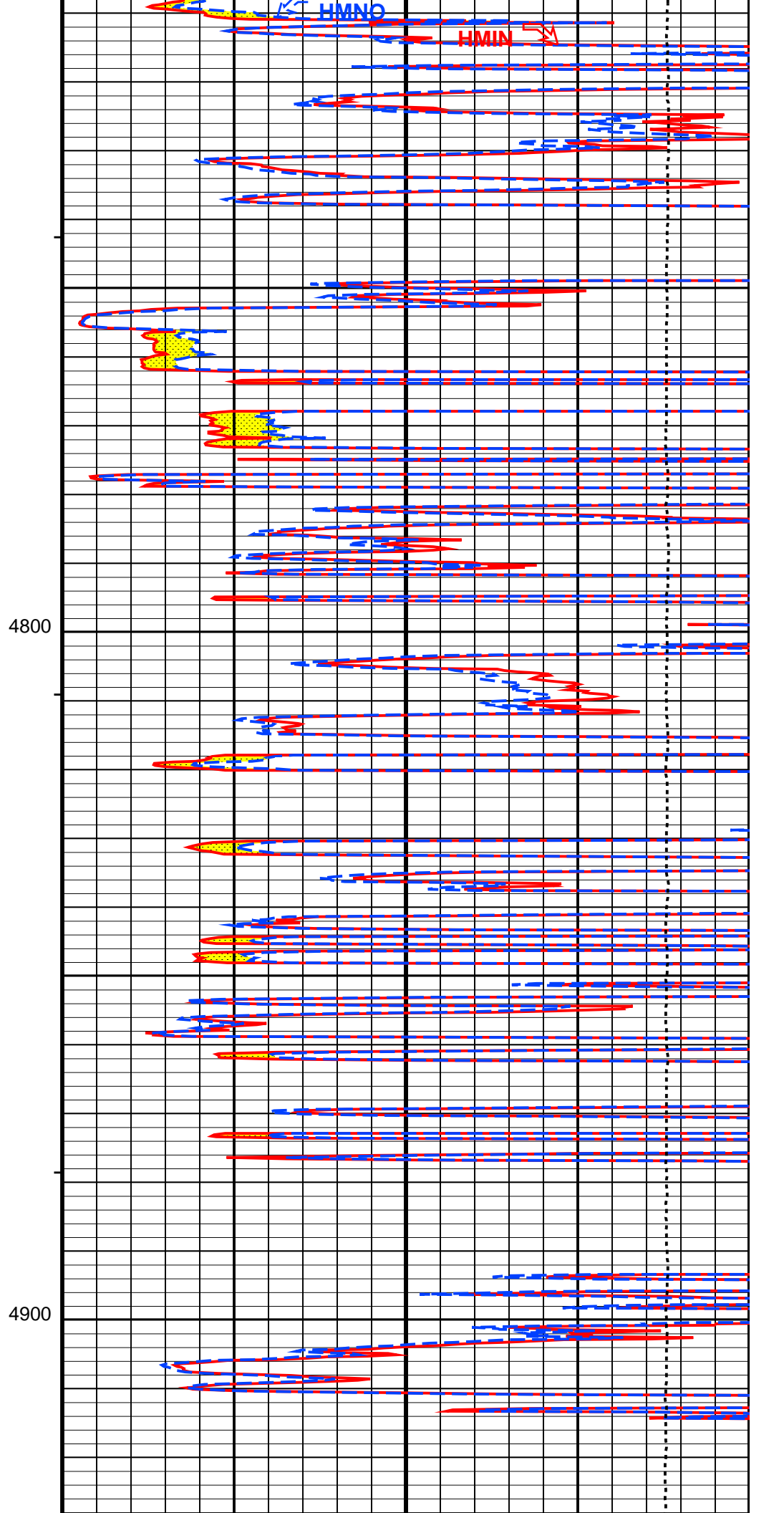
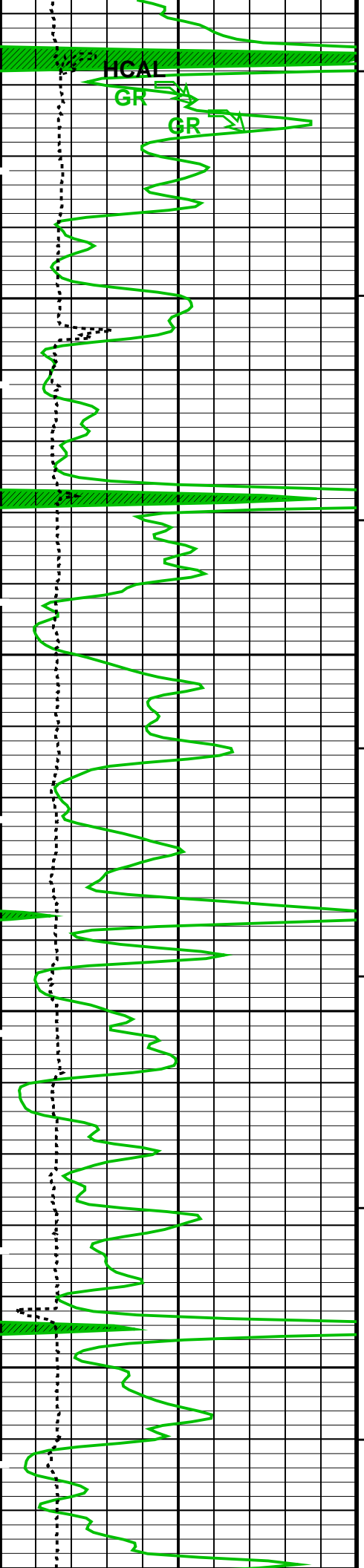


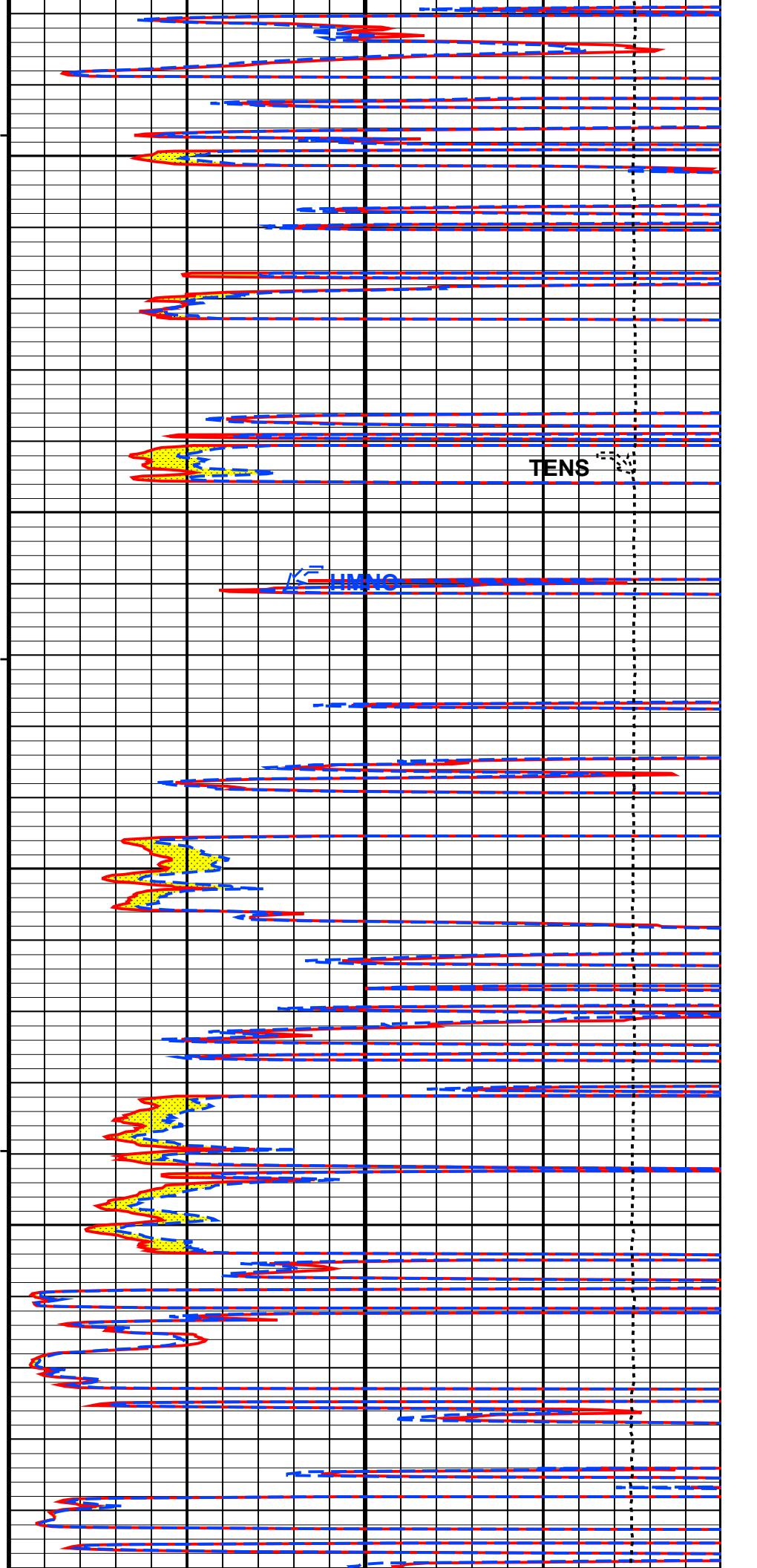
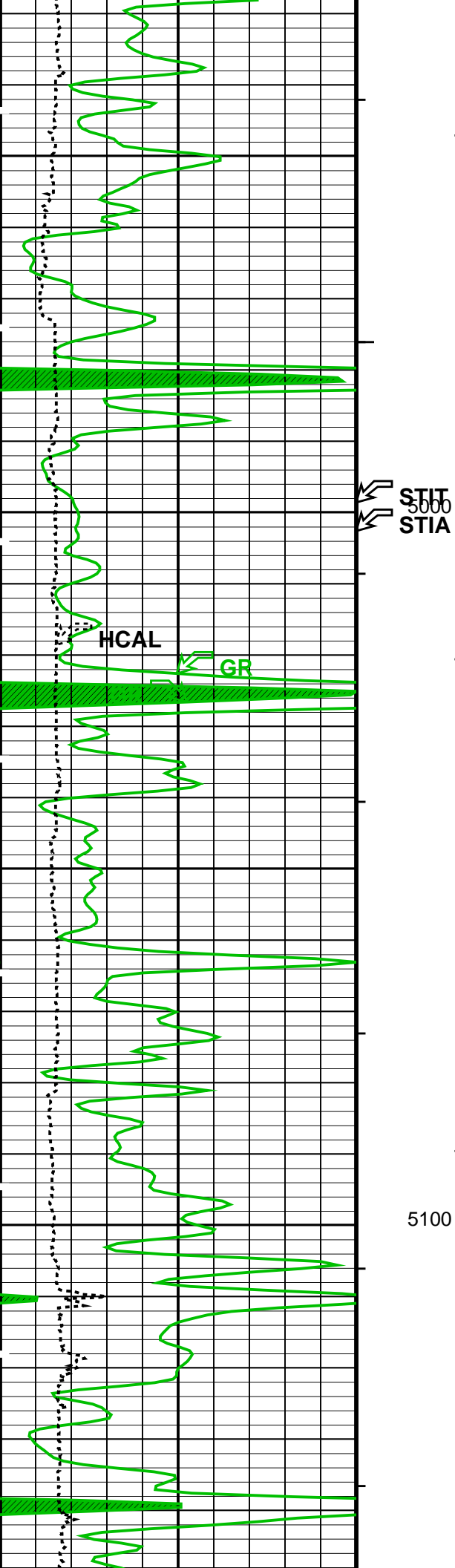


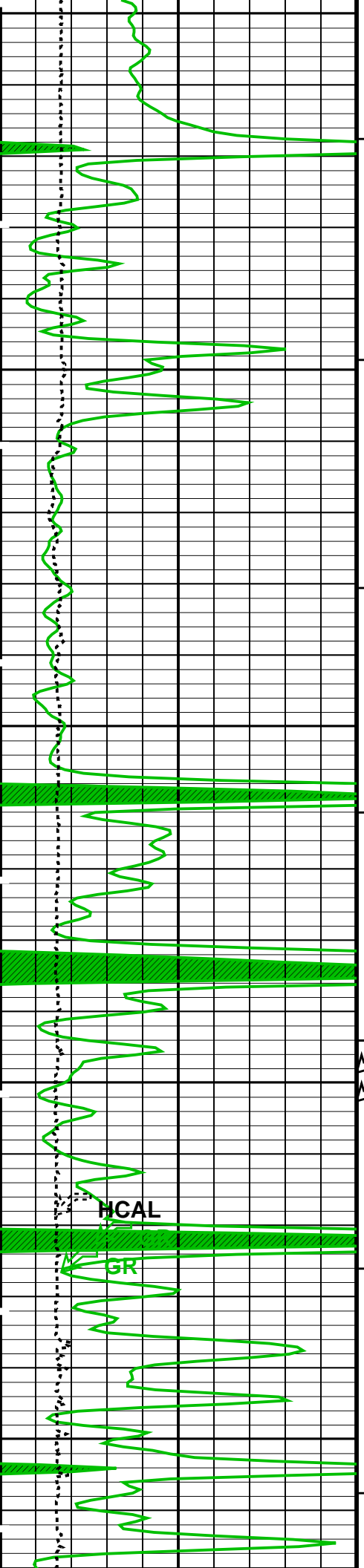










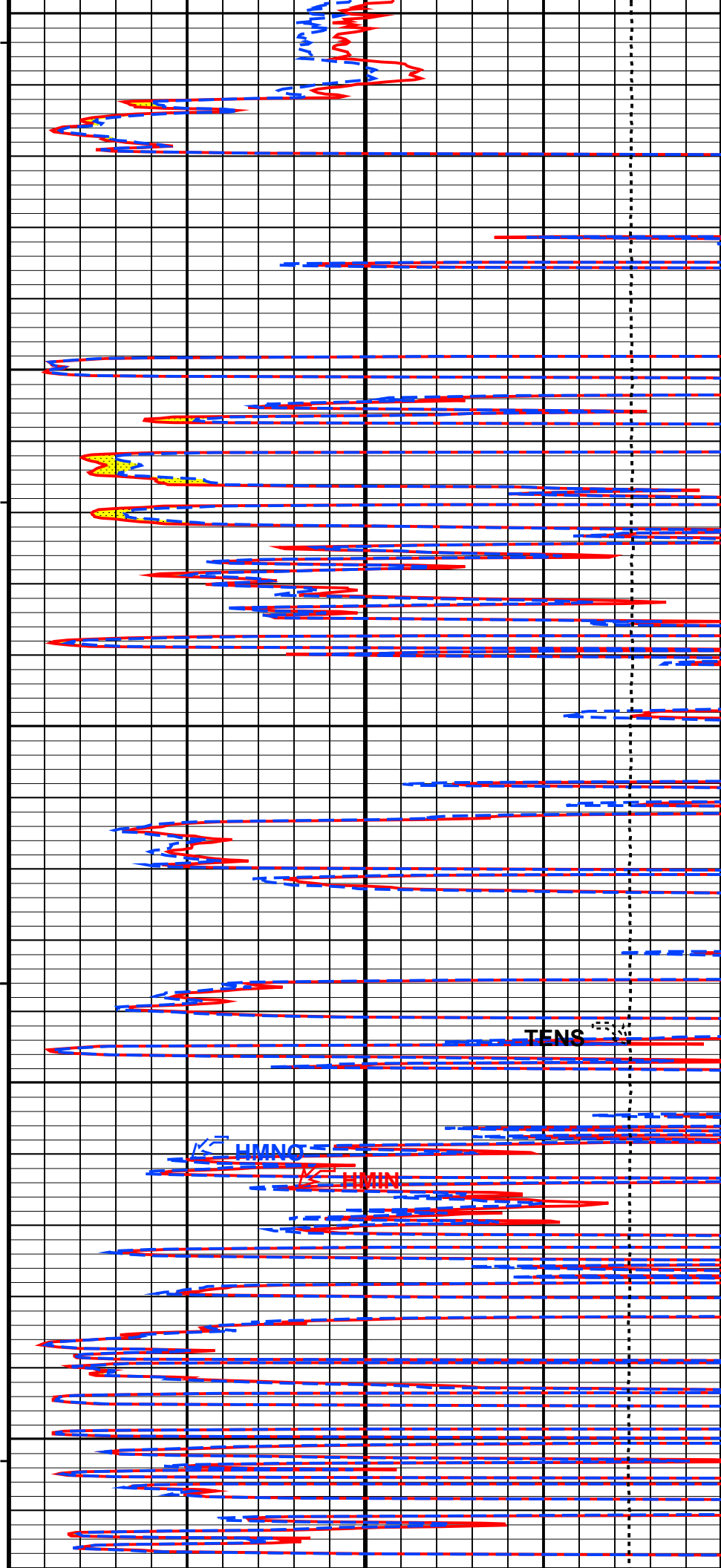


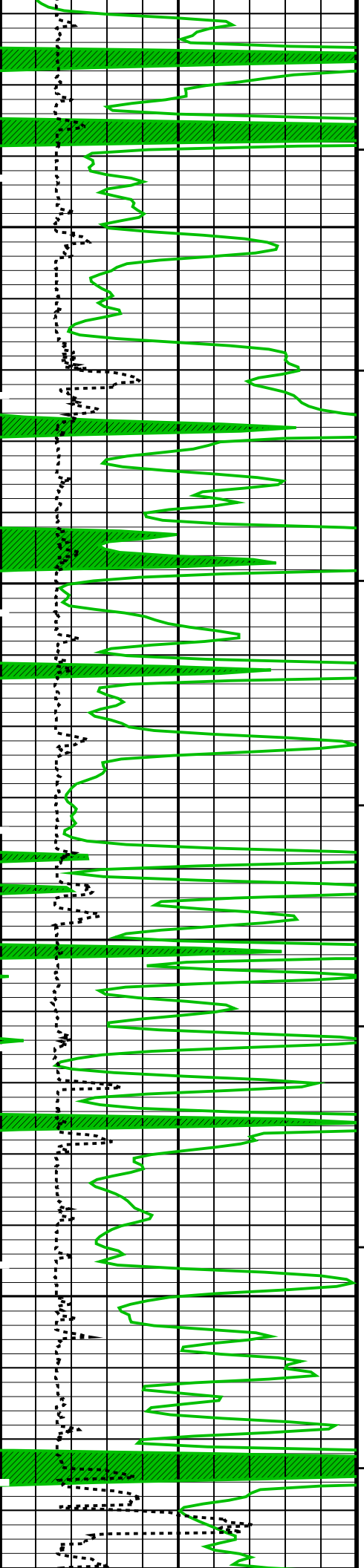
5200

STIT  
5300  
STIA

HCAL

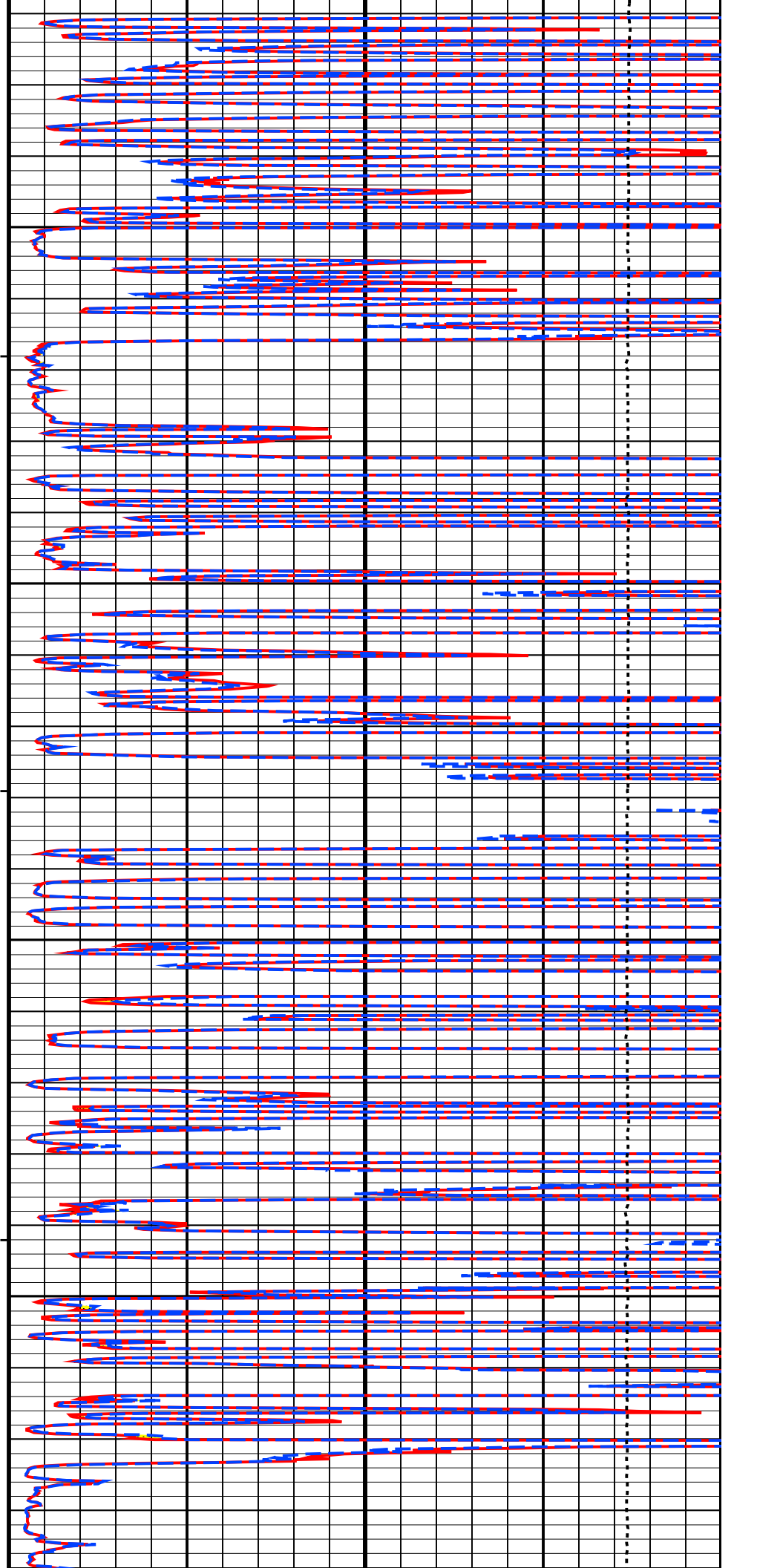
GR

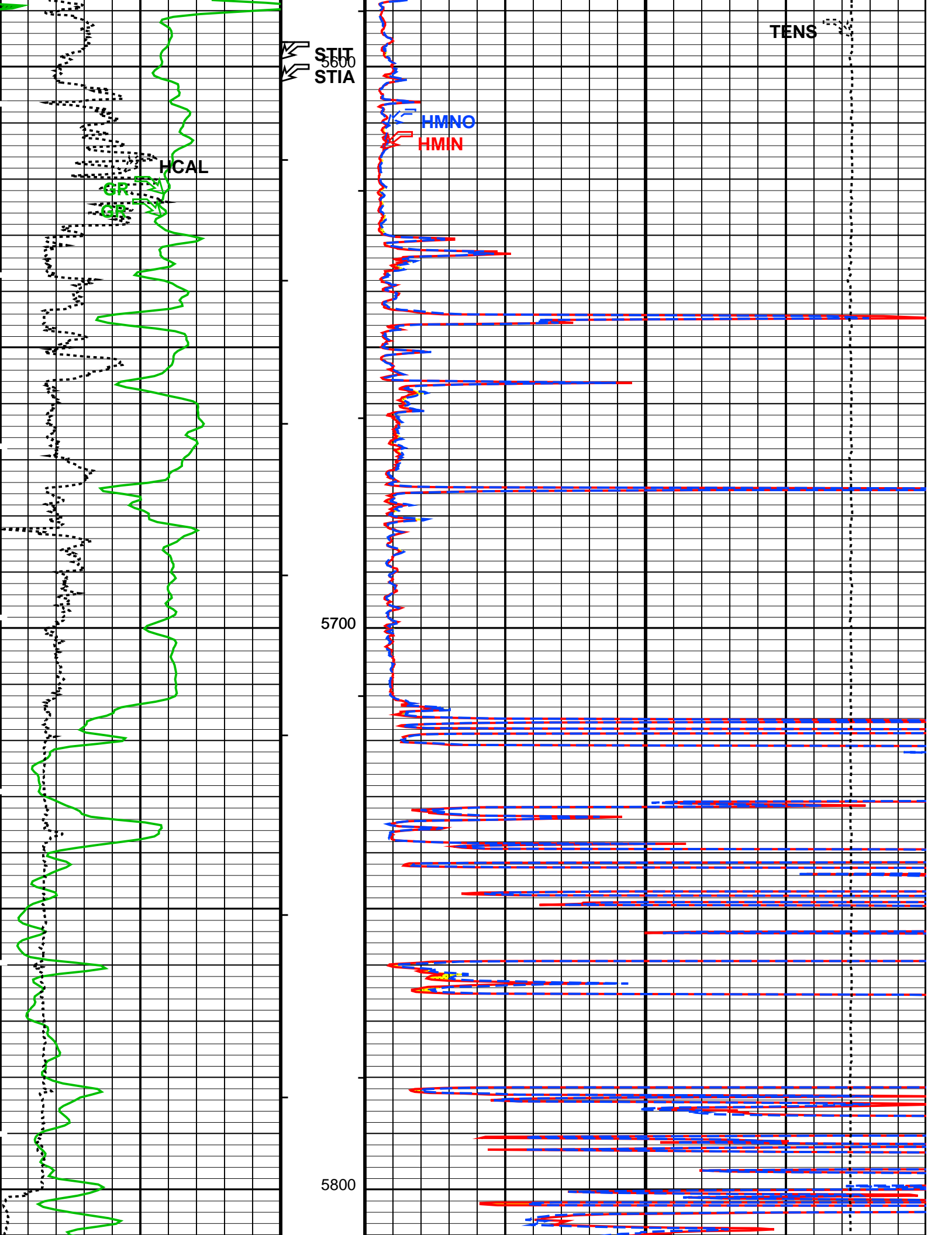


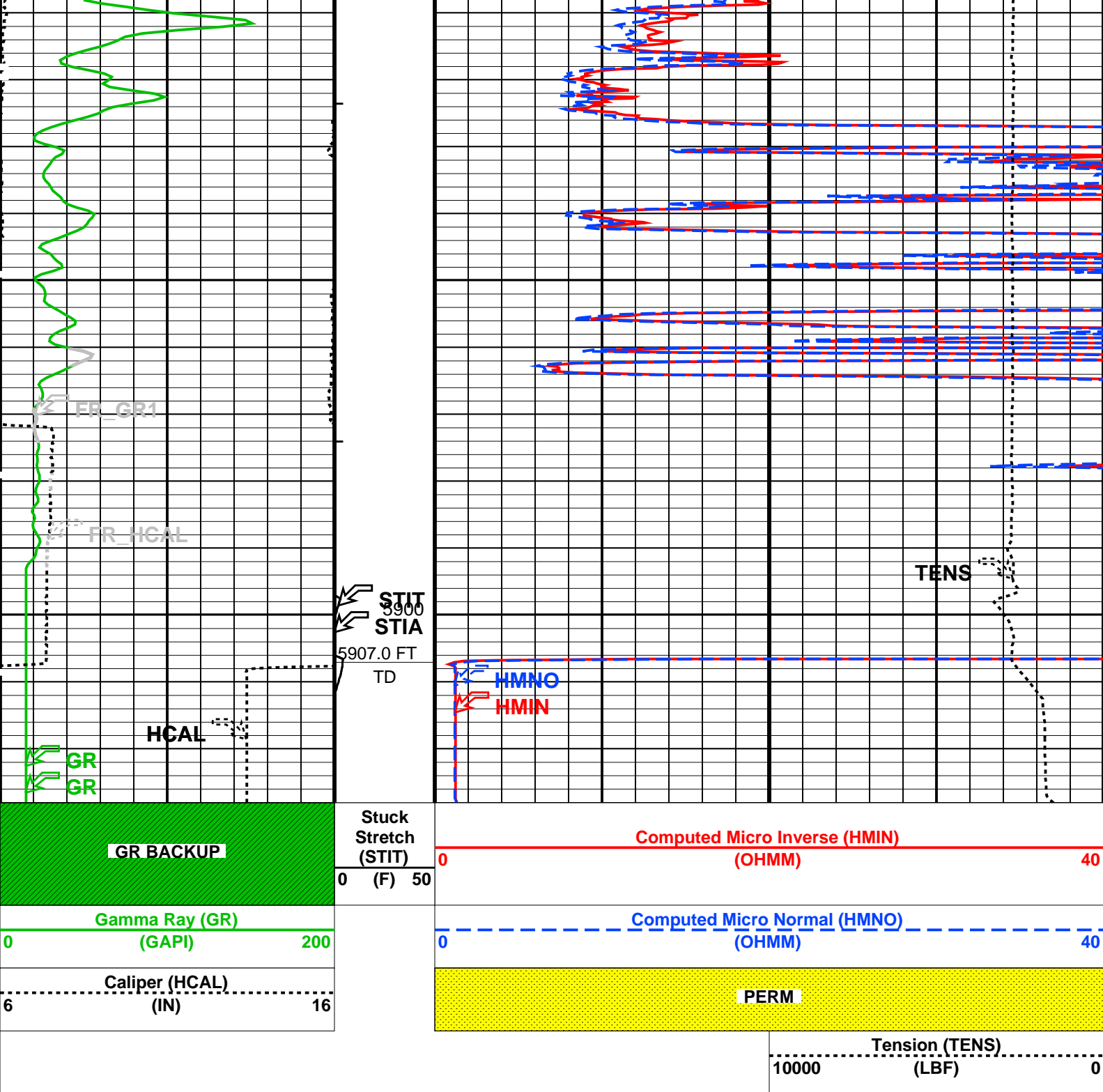


5400

5500







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
MPOF	HILTH-FTB: High resolution Integrated Logging Tool-DTS		ON
	MCFL Processing Operation Mode		
FCD	HOLEV: Integrated Hole/Cement Volume		5.5 IN
HVCS	Future Casing (Outer) Diameter		
	Integrated Hole Volume Caliper Selection		AUTOMATIC
LBFR	STI: Stuck Tool Indicator		TDL
STKT	Trigger for MAXIS First Reading Label		2.5 FT
STP	STI Stuck Threshold		5910.00 FT

TDD	Total Depth - Driller	5910.00	FT
TDL	Total Depth - Logger	5907.00	FT
System and Miscellaneous			
BS	Bit Size	7.875	IN
DORL	Depth Offset for Repeat Analysis	0.0	FT
TD	Total Depth	5907	FT

Format: MLT      Vertical Scale: 5" per 100'      Graphics File Created: 20-Mar-2012 06:47

## OP System Version: 19C0-187

AIT-M	19C0-187	HILTH-FTB	19C0-187
DTC-H	19C0-187		

## Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_016LUP	FN:15	PRODUCER	20-Mar-2012 06:47
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**Schlumberger**

## REPEAT ANALYSIS

MAXIS Field Log

## Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_009LUP	FN:8	PRODUCER	20-Mar-2012 06:25	5926.5 FT	5413.5 FT
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## Output DLIS Files

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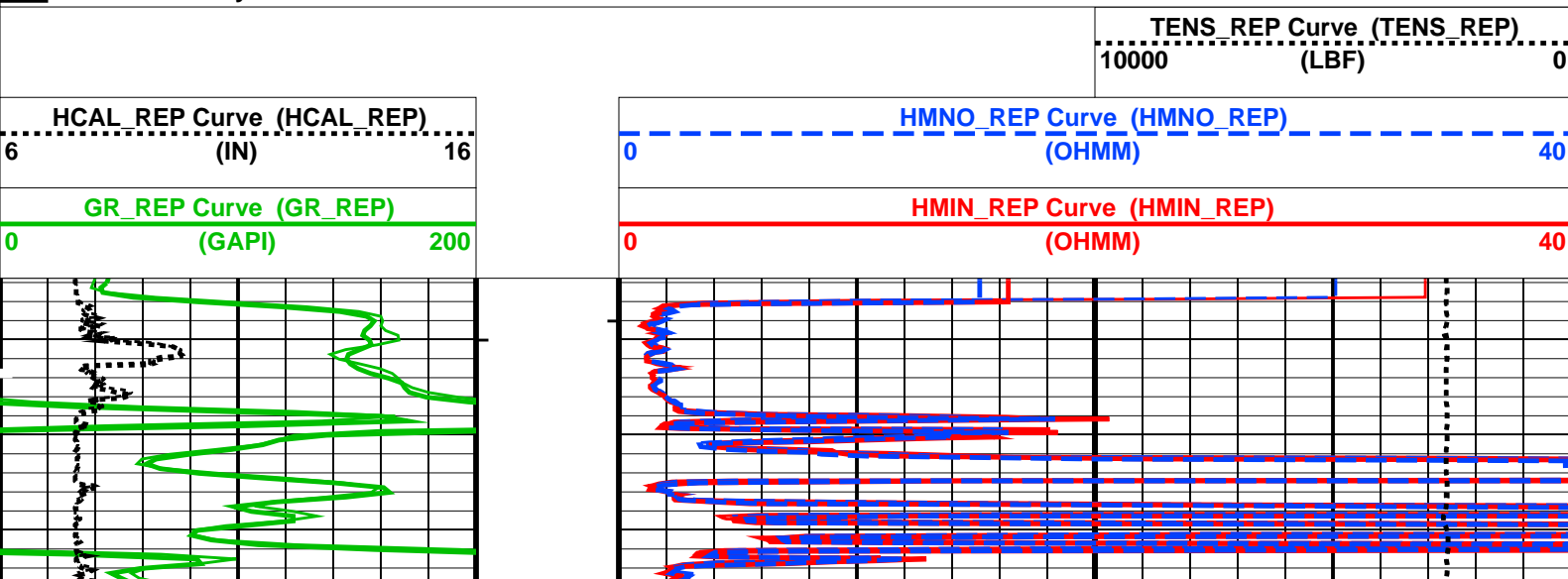
## OP System Version: 19C0-187

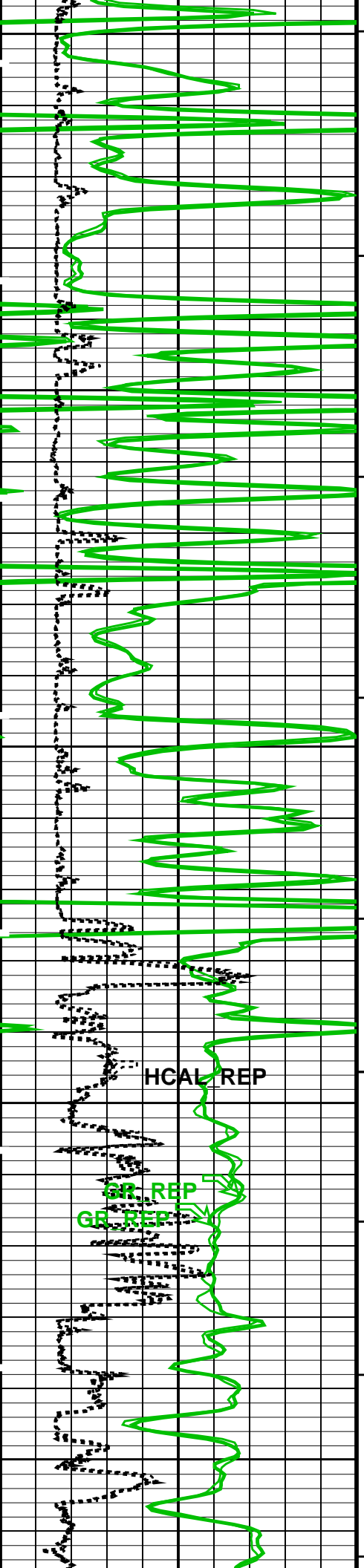
AIT-M	19C0-187	HILTH-FTB	19C0-187
DTC-H	19C0-187		

### 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

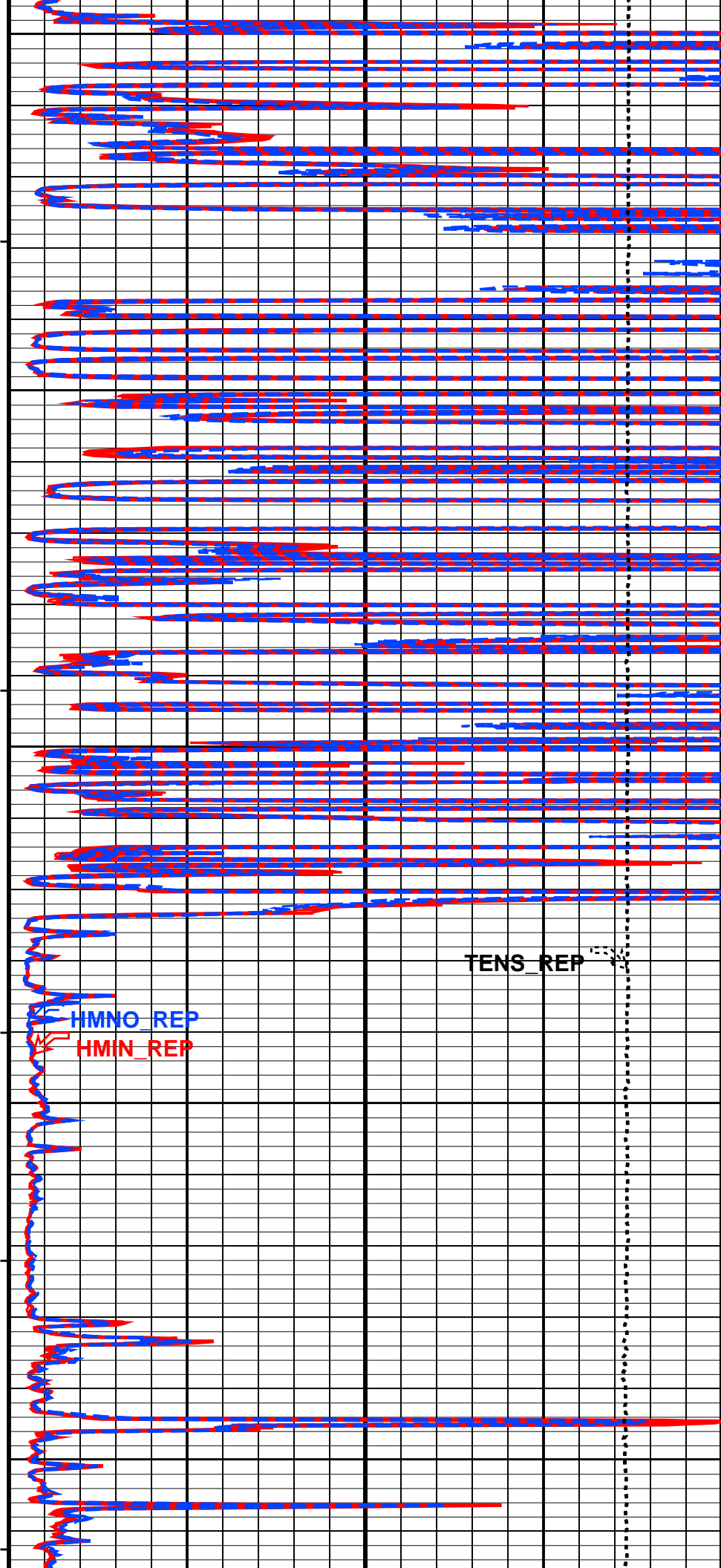
☒ Time Mark Every 60 S



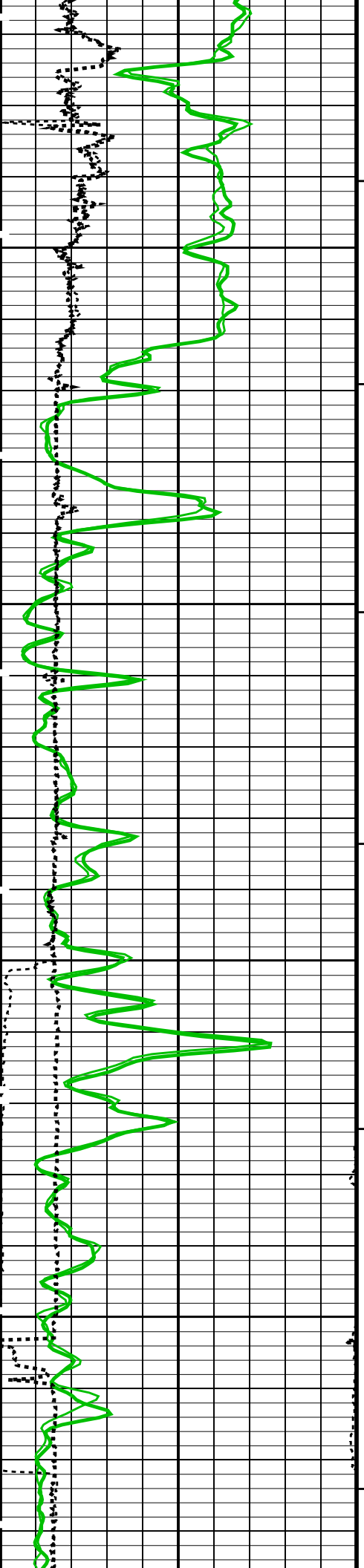


5500

5600



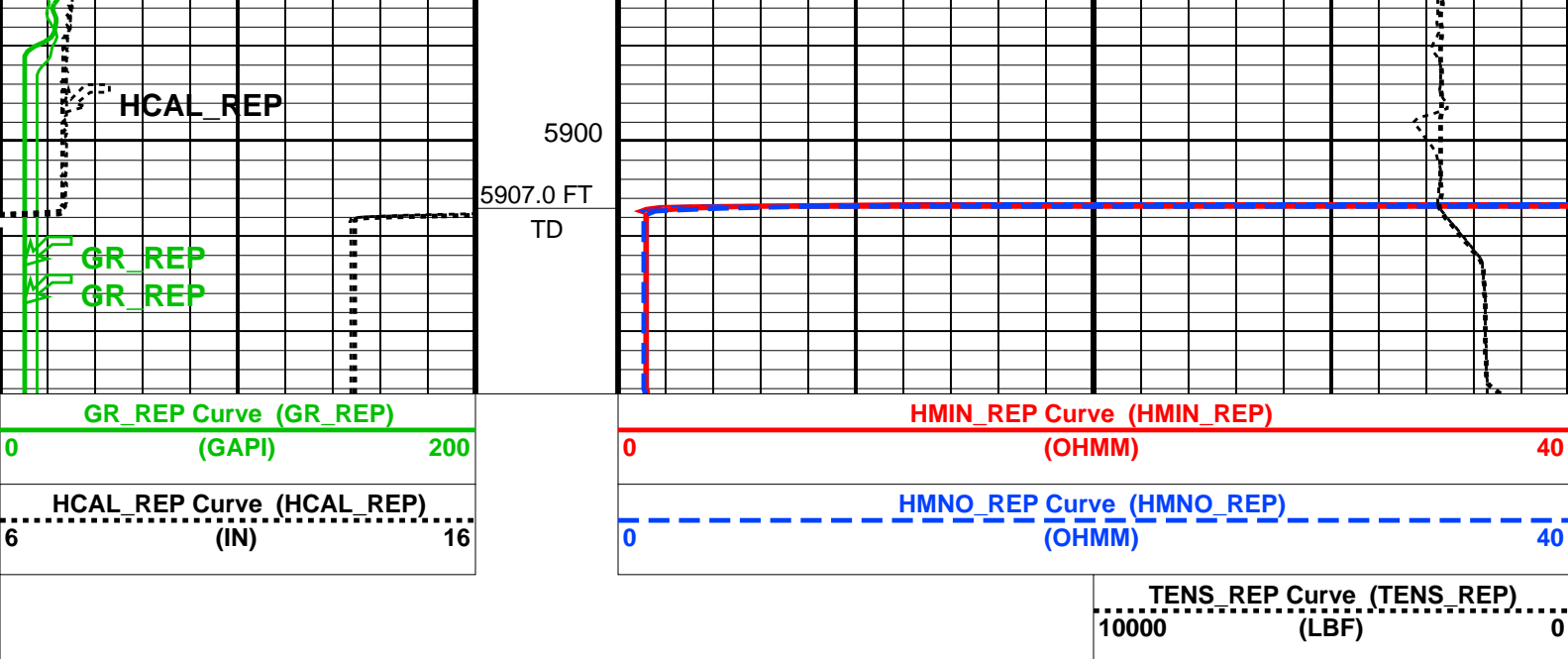




5700

5800

TENS REP



#### 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
MPOF	HILTH-FTB: High resolution Integrated Logging Tool-DTS MCFL Processing Operation Mode	ON
FCD	HOLEV: Integrated Hole/Cement Volume	
HVCS	Future Casing (Outer) Diameter	5.5 IN
	Integrated Hole Volume Caliper Selection	AUTOMATIC
BS	System and Miscellaneous	
DORL	Bit Size	7.875 IN
TD	Depth Offset for Repeat Analysis	0.0 FT
	Total Depth	5907 FT

Format: MLT\_REP Vertical Scale: 5" per 100' Graphics File Created: 20-Mar-2012 06:47

#### OP System Version: 19C0-187

AIT-M	19C0-187	HILTH-FTB	19C0-187
DTC-H	19C0-187		

#### Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_009LUP	FN:8	PRODUCER	20-Mar-2012 06:25	5926.5 FT	5413.5 FT
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#### Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_016LUP	FN:15	PRODUCER	20-Mar-2012 06:47
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**Schlumberger**

**BEFORE CALIBRATIONS**

# Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Array Induction Tool – M Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase							
Master: 26-Jan-2012 16:11 Before: 19-Mar-2012 10:05							
Thru Cal Magnitude – 0	0	0.6131	0.6135	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.256	1.257	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6230	0.6235	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.7038	0.7043	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.315	1.316	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.911	1.912	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.906	1.908	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.361	1.362	N/A	N/A	N/A	V
Thru Cal Phase – 0	0	183.8	183.8	N/A	N/A	N/A	DEG
Thru Cal Phase – 1	0	182.7	182.7	N/A	N/A	N/A	DEG
Thru Cal Phase – 2	0	179.0	179.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 3	0	178.2	178.3	N/A	N/A	N/A	DEG
Thru Cal Phase – 4	0	172.0	172.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 5	0	170.3	170.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 6	0	170.3	170.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 7	0	169.6	169.7	N/A	N/A	N/A	DEG

## Array Induction Tool – M Wellsite Calibration – Electronics Calibration Check – Auxiliary

Master: 26-Jan-2012 16:11 Before: 19-Mar-2012 10:05							
Array Induction SPA Plus	991.0	991.5	991.6	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	-0.2500	-0.2242	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9170	0.9184	0.9184	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	-0.0002500	-0.0002205	N/A	N/A	N/A	V

## Array Induction Tool – M Wellsite Calibration – Test Loop Gain Correction

Master: 26-Jan-2012 16:11							
Test Loop Gain Correctio – 0	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	1.016	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 3	0	1.012	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 4	0	0.9946	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 5	0	0.9890	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 6	0	0.9984	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 7	0	1.006	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 0	0	0.4704	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 1	0	0.6871	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 2	0	0.1215	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 3	0	-0.06941	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 4	0	0.1235	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 5	0	-0.1023	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 6	0	0.2848	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 7	0	-0.005901	N/A	N/A	N/A	N/A	DEG

## Array Induction Tool – M Wellsite Calibration – Sonde Error Correction

Master: 26-Jan-2012 16:11							
R Sonde Error Correction – 0	0	-93.39	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	158.2	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	116.5	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	63.04	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	27.36	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	13.24	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	9.876	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	-1.618	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	-7.309	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	-334.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	10.73	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	-58.01	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	-12.80	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	-17.35	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	-3.765	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	4.594	N/A	N/A	N/A	N/A	MM/M

## Array Induction Tool – M Wellsite Calibration – Mud Gain Correction

Master: 26-Jan-2012 16:11							
Coarse – Mag, Real, Imag – 0	0	0.8718	N/A	N/A	N/A	N/A	
Coarse – Mag, Real, Imag – 1	0	0.8718	N/A	N/A	N/A	N/A	
Coarse – Mag, Real, Imag – 2	0	0.8718	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 0	0	0.8719	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 1	0	0.8719	N/A	N/A	N/A	N/A	
Fine – Mag, Real, Imag – 2	0	0.8719	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Stab Measurement Summary

Before: 19–Mar–2012 10:07							
BS Window Ratio	0.7555	N/A	0.7545	N/A	N/A	N/A	
BS Window Sum	25690	N/A	25690	N/A	N/A	N/A	CPS
SS Window Ratio	0.4900	N/A	0.4905	N/A	N/A	N/A	
SS Window Sum	11530	N/A	11520	N/A	N/A	N/A	CPS
LS Window Ratio	0.3016	N/A	0.2991	N/A	N/A	N/A	
LS Window Sum	1171	N/A	1169	N/A	N/A	N/A	CPS

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Photo–multiplier High Voltages Calibrations

Before: 19–Mar–2012 10:07							
BS PM High Voltage (Command)	1491	N/A	1491	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1435	N/A	1443	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1437	N/A	1437	N/A	N/A	N/A	V

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration

Before: 19–Mar–2012 10:07							
BS Crystal Resolution	10.57	N/A	10.60	N/A	N/A	N/A	%
SS Crystal Resolution	9.903	N/A	9.786	N/A	N/A	N/A	%
LS Crystal Resolution	8.715	N/A	8.471	N/A	N/A	N/A	%

High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration

Before: 19–Mar–2012 10:08							
Raw B0 Resistivity	3875	N/A	3878	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3833	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3843	N/A	N/A	N/A	OHMM

High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration

Before: 19–Mar–2012 10:00							
HILT Caliper Zero Measurement	8.000	N/A	7.433	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	11.75	N/A	N/A	N/A	IN

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration

Before: 19–Mar–2012 10:00							
Gamma Ray Background	30.00	N/A	83.25	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkgd)	165.0	N/A	175.1	N/A	N/A	15.00	GAPI

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement

Master: 7–Feb–2012 10:10 Before: 19–Mar–2012 10:01							
CNTC Background	24.85	24.85	24.55	N/A	N/A	3.728	CPS
CFTC Background	27.19	27.19	28.76	N/A	N/A	4.079	CPS

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement

Master: 7–Feb–2012 10:10							
Thermal Near Corr. (Tank)	5800	4826	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	1970	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.450	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration

Before: 20–Mar–2012 5:29							
Z–Axis Acceleration	32.19	N/A	32.04	N/A	N/A	N/A	F/S2

The GLS–VJ source activity is acceptable.

The HGNS Neutron Master Calibration was done with the following parameters :

NCT–B Water Temperature 68.0 DEG.F.  
Thermal Housing Size 3.380 IN.  
NSR–F serial number 5069

Array Induction Tool – M / Equipment Identification

Primary Equipment:  
Rm/SP Bottom Nose AMRM – A  
Array Induction Sonde AMIS – A 39



Auxiliary Equipment:

Array Induction Tool – M Wellsite Calibration							
Electronics Calibration Check – Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Thru Cal Phase DEG	Nominal

Master: 26-Jan-2012 16:11 Before: 19-Mar-2012 10:05

Master: 26-Jan-2012 16:11 Before: 19-Mar-2012 10:05

0.5000	1.000	1.500	-3.000	0	3.000
(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)


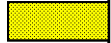


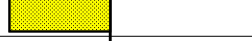

7	1.006		-0.005901			
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

Master: 26-Jan-2012 16:11

Array Induction Tool – M Wellsite Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M		
0	-93.39				-7.309			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	158.2				-334.4			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	116.5				10.73			
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	63.04				-58.01			
		39.00 (Minimum)	64.00 (Nominal)	89.30 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	27.36				-12.80			
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	13.24				-17.35			
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	9.876				-3.765			
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-1.618				4.594			
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

Master: 26-Jan-2012 16:11

Master: 26-Jan-2012 16:11

Array Induction Tool – M Wellsite Calibration								
Mud Gain Correction								
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag		
0	0.8718				0.8719			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	0.8718				0.8719			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	0.8718				0.8719			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 26-Jan-2012 16:11								

Master: 26-Jan-2012 16:11

### High resolution Integrated Logging Tool–DTS / Equipment Identification

#### Primary Equipment:

HILT high–Resolution Mechanical Sonde  
HILT Rxo Gamma–ray Device  
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

HRMS – H  
HRGD – H  
MCFL – H  
GLS – VJ  
HRCC – H  
HGNS – H  
HGR –  
HCNT – H







5240




#### Auxiliary Equipment:




Neutron Calibration Tank  
Gamma Source Radioactive  
HGNS Housing




NCT – B  
GSR – U/Y  
HGNS –



# Stab Measurement Summary



Phase	BS Window Ratio		Value	Phase	SS Window Ratio		Value	Phase	LS Window Ratio		Value
Before			0.7545	Before			0.4905	Before			0.2991
	0.7177 (Minimum)	0.7555 (Nominal)	0.7933 (Maximum)		0.4655 (Minimum)	0.4900 (Nominal)	0.5145 (Maximum)		0.2865 (Minimum)	0.3016 (Nominal)	0.3167 (Maximum)
Phase	BS Window Sum CPS		Value	Phase	SS Window Sum CPS		Value	Phase	LS Window Sum CPS		Value
Before			25690	Before			11520	Before			1169
	24410 (Minimum)	25690 (Nominal)	26970 (Maximum)		10950 (Minimum)	11530 (Nominal)	12100 (Maximum)		1113 (Minimum)	1171 (Nominal)	1230 (Maximum)
Before: 19-Mar-2012 10:07											





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			1491	Before			1443	Before			1437
	1391 (Minimum)	1491 (Nominal)	1591 (Maximum)		1335 (Minimum)	1435 (Nominal)	1535 (Maximum)		1337 (Minimum)	1437 (Nominal)	1537 (Maximum)
Before: 19-Mar-2012 10:07											

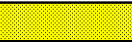
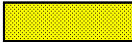
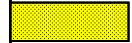
High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Crystal Quality Resolutions Calibration											
Phase	BS Crystal Resolution %		Value	Phase	SS Crystal Resolution %		Value	Phase	LS Crystal Resolution %		Value
Before			10.60	Before			9.786	Before			8.471
	9.573 (Minimum)	10.57 (Nominal)	11.57 (Maximum)		8.903 (Minimum)	9.903 (Nominal)	10.90 (Maximum)		7.715 (Minimum)	8.715 (Nominal)	9.715 (Maximum)
Before: 19-Mar-2012 10:07											

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			3878	Before			3833	Before			3843
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)
Before: 19-Mar-2012 10:08											


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			7.433	Before			11.75
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 19-Mar-2012 10:00							

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Detector Calibration							
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkgd) GAPI		Value
Before			83.25	Before			175.1
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		157.1 (Minimum)	165.0 (Nominal)	206.3 (Maximum)
Before: 19-Mar-2012 10:00							

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Zero Measurement							
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value
Master			24.85	Master			27.19
Before			24.55	Before			28.76
5.000 (Minimum)			24.85 (Nominal)	40.00 (Maximum)			
5.000 (Minimum)			27.19 (Nominal)	40.00 (Maximum)			
Master: 7-Feb-2012 10:10				Before: 19-Mar-2012 10:01			

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			4826	Master			1970	Master			2.450
	4700 (Minimum)	5800 (Nominal)			1800 (Minimum)	2400 (Nominal)			2.120 (Minimum)	2.150 (Nominal)	2.540 (Maximum)

47.00 (Minimum)	5000 (Nominal)	5300 (Maximum)	1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	2.120 (Minimum)	2.133 (Nominal)	2.340 (Maximum)
Master: 7-Feb-2012 10:10								

High resolution Integrated Logging Tool–DTS		
Wellsite Calibration		
Accelerometer Calibration		
Phase	Z–Axis Acceleration F/S2	Value
Before		32.04
31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)
Before: 20–Mar–2012 5:29		

DTS Telemetry Tool / Equipment Identification	
Primary Equipment:	
DTC–H Auxiliary Cartridge	DTCH – A
DTC–H Telemetry Cartridge	DTCH – A
Auxiliary Equipment:	
DTCH Telemetry Cartridge Housing	ECH – KC

Company:	Vecta Oil & Gas Ltd	Schlumberger
Well:	Quandary 23–26	
Field:	Wildcat	
County:	Cheyenne	
State:	Colorado	
	Platform Express	
	Micro Log	