

OTHER SERVICES1	OTHER SERVICES2
OS1: CMR	OS1:
OS2: BHC	OS2:
OS3: MDT	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the first run in hole	
Toolstring run as per tool sketch	
Matrix: Limestone (2.71 g/cc)	

Rig: Excel Rig 3					
Crew: Ian Derry, Jake Jump					
RUN 1			RUN 2		
SERVICE ORDER #:		CCN1-00019	SERVICE ORDER #:		
PROGRAM VERSION:		19C2-270	PROGRAM VERSION:		
FLUID LEVEL:		200 ft	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT					
WITM (DTS)-A					
GSR-U/Y					
NCT-B					
CNB-AB					
NCS-VB					
DOWNHOLE EQUIPMENT					
LEH-QT		83.8			
LEH-QT					
DTC-H	CTEM	80.0			
ECH-KC	TelStatus	80.9			
	ToolStatu	77.9			
CMRT-B		77.9			
CMRH-AA					
CMRS-BA 265					
CMRC-B 283					
EME-F					
CMR-B Raw		64.2			
CMR-B Sen		62.3			
CMR-B Dia					
AH-107		62.3			
AH-107					
AH-107	HGNS HTEM	60.3			
AH-107	HMCA	58.3			
HILTH-FTB	HGNS Gamm	57.5			
HGNSD-H		58.3			
HMCA-H		51.7			
HGNH	HGNS Neut	51.2			
NLS-KL	HGNS Neut	48.9			
NSR-F 2554					
HACCZ-H 6991	HGNS sens				
HCNT-H					
HGR					
HRCC-H	HRCC cart	44.9			
HRMS-H	MCFL	39.4			
HRGD-H	HILT cali	39.0			
GLS-VJ 5471	HRDD-LS				
MCFL Device-H	HRDD-SS				
HILT Nucl. LS-H 28620	HRDD-BS	38.6			
HILT Nucl. SS-H 42767					
HILT Nucl. BS-H 42767					
BOW-SPR					
DSLT-FTB		36.6			
DSL-C-B					

DSL-C-B
ECH-KH
SLS-W

USN
UHN
USF UHF
LSF LHF
LHN
LSN
DSL-T Aux.

24.2
23.4
23.2
20.4
20.2
19.4

16.0

HAIT-H
AHIS-BA 216
AHRM-A

Induction
Temperatu
Power Sup
SP SENSOR
DF
HTEN HMAS HV
Accelerom
Mud Resis
Tension

TOOL ZERO

7.9
0.1
0.0

16.0
1.0 IN
Standoff
1.0 IN
Standoff

MAXIMUM STRING DIAMETER 6.60 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN MICRO LOG 5" = 100'

MAXIS Field Log

Input DLIS Files

DEFAULT	Splice_AIT_SONIC_032CUP	FN:1	PRODUCER	05-Aug-2013 19:39	6816.0 FT	99.5 FT
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Output DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_033PUP	FN:31	PRODUCER	05-Aug-2013 19:41	6816.0 FT	100.0 FT
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Integrated Hole/Cement Volume Summary

Hole Volume = 2937.84 F3

Cement Volume = 1901.06 F3 (assuming 5.50 IN casing O.D.)

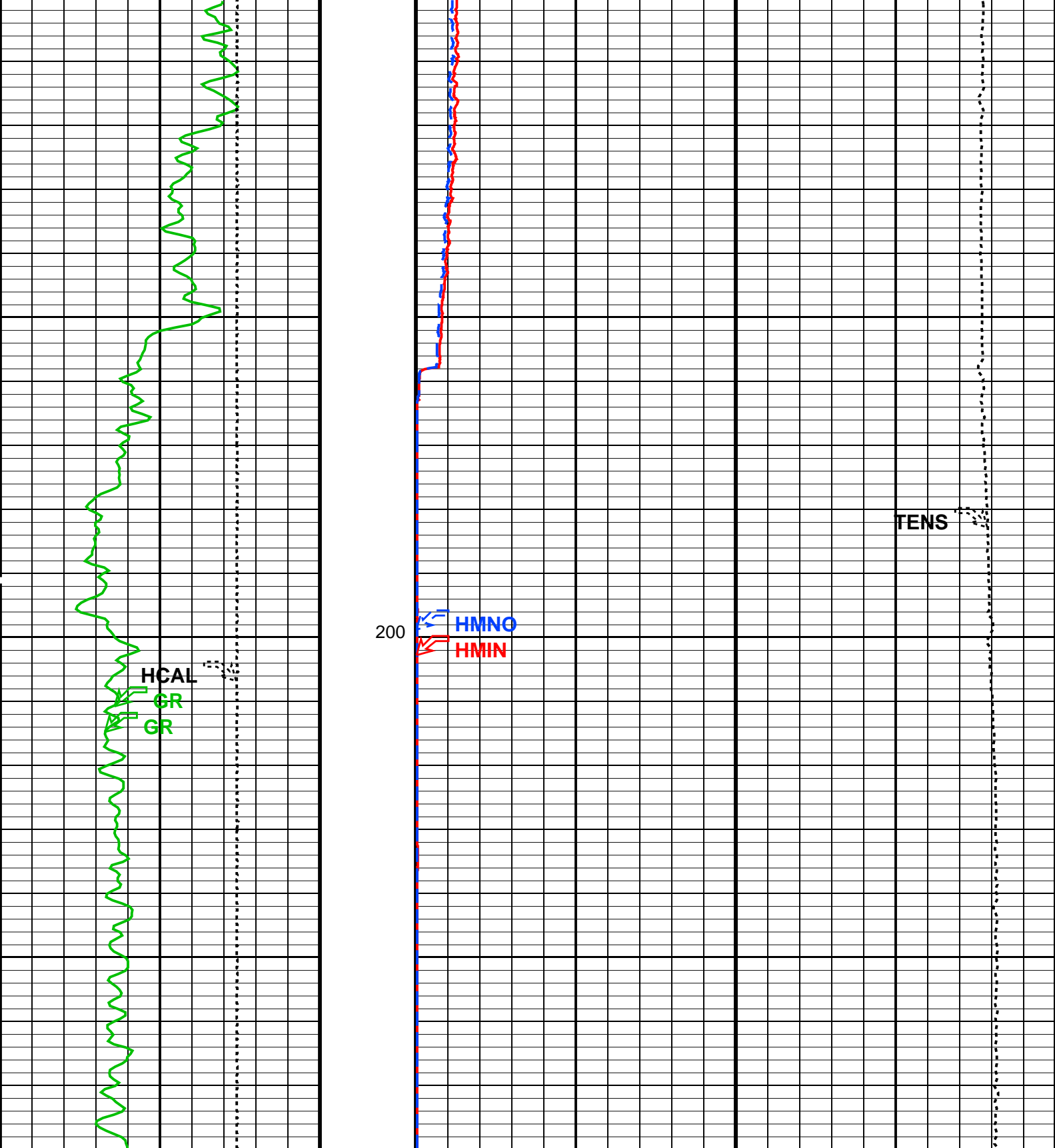
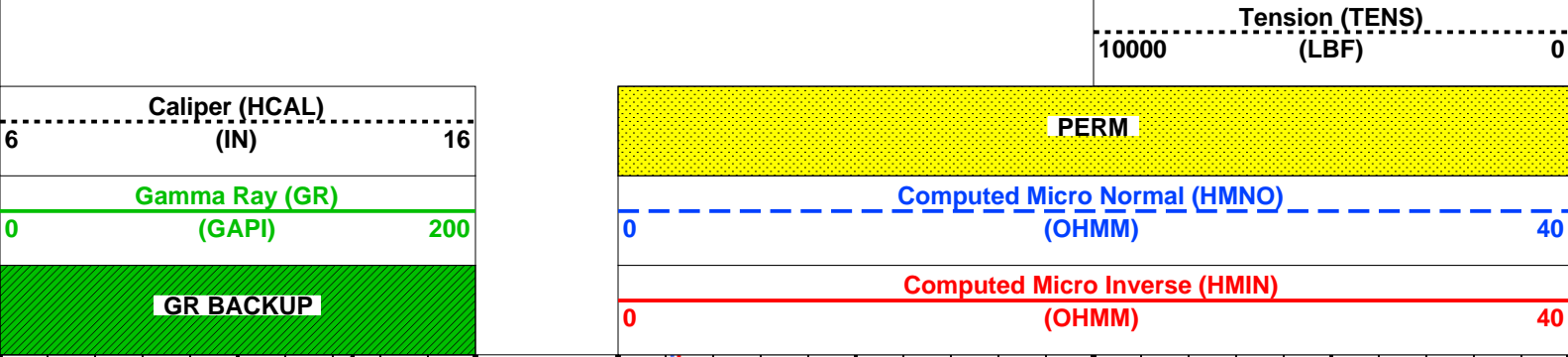
Computed from 6800.0 FT to 516.0 FT using data channel(s) HCAL

OP System Version: 19C2-270

HAIT-H	19C2-270	DSL-T-FTB	19C2-270
HILTH-FTB	19C2-270	CMRT-B	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

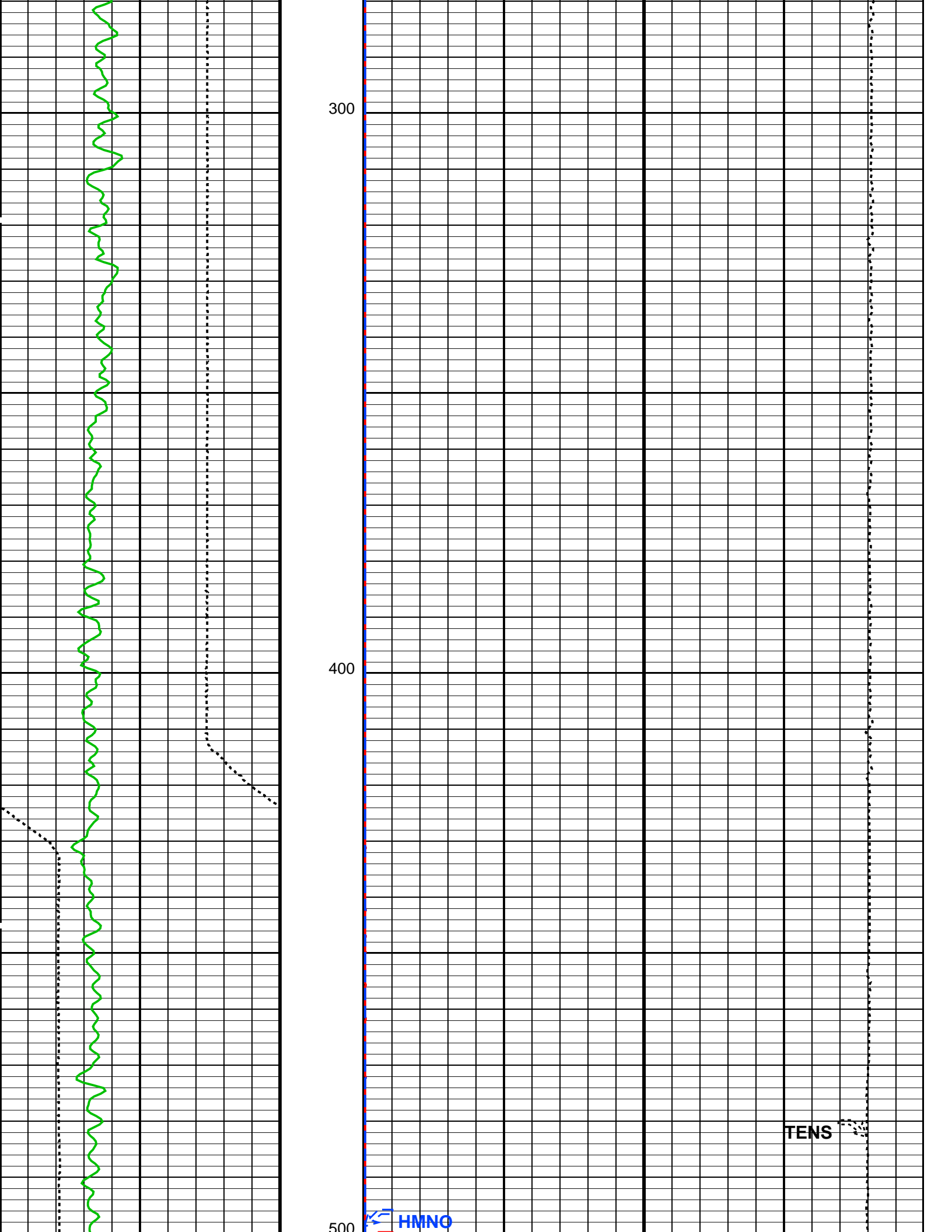


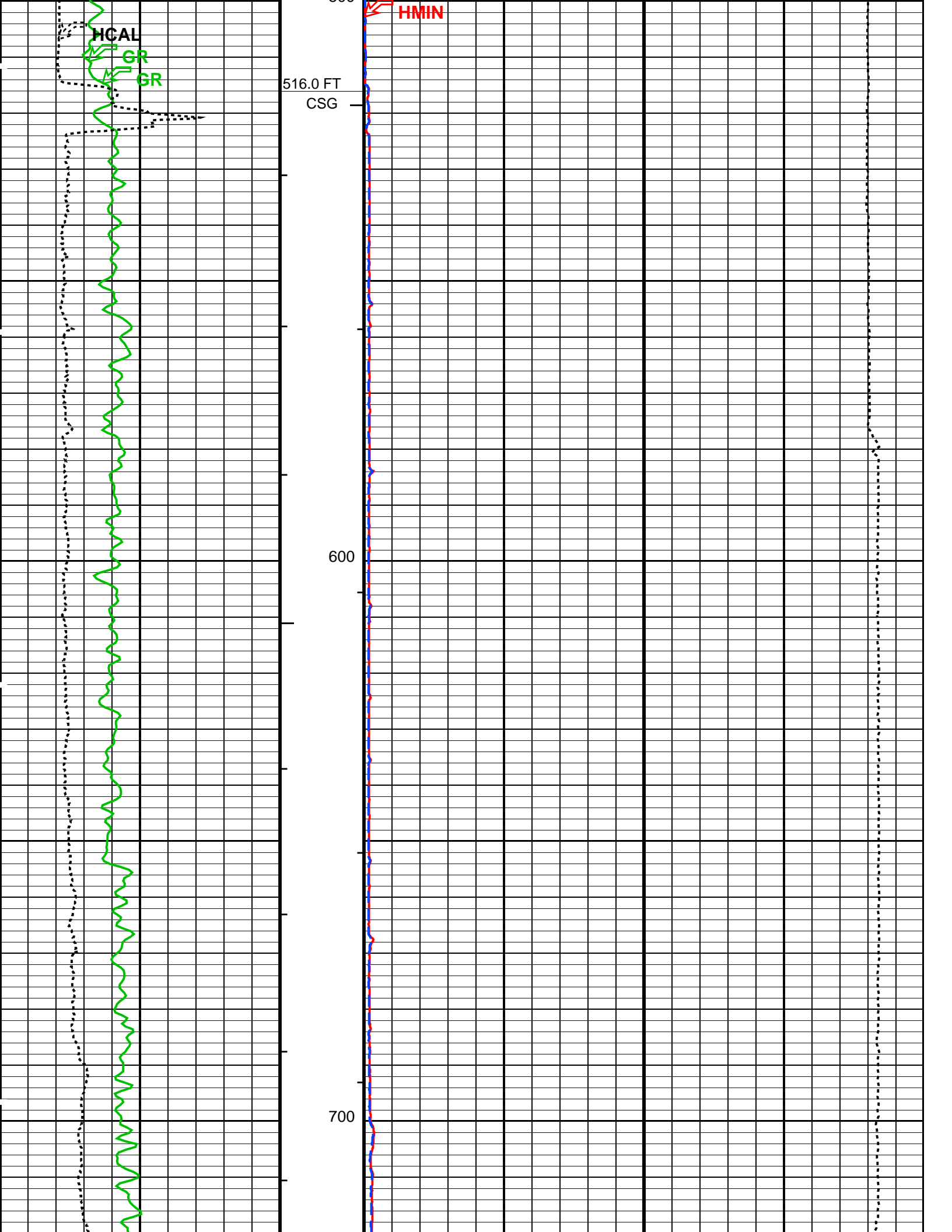
200

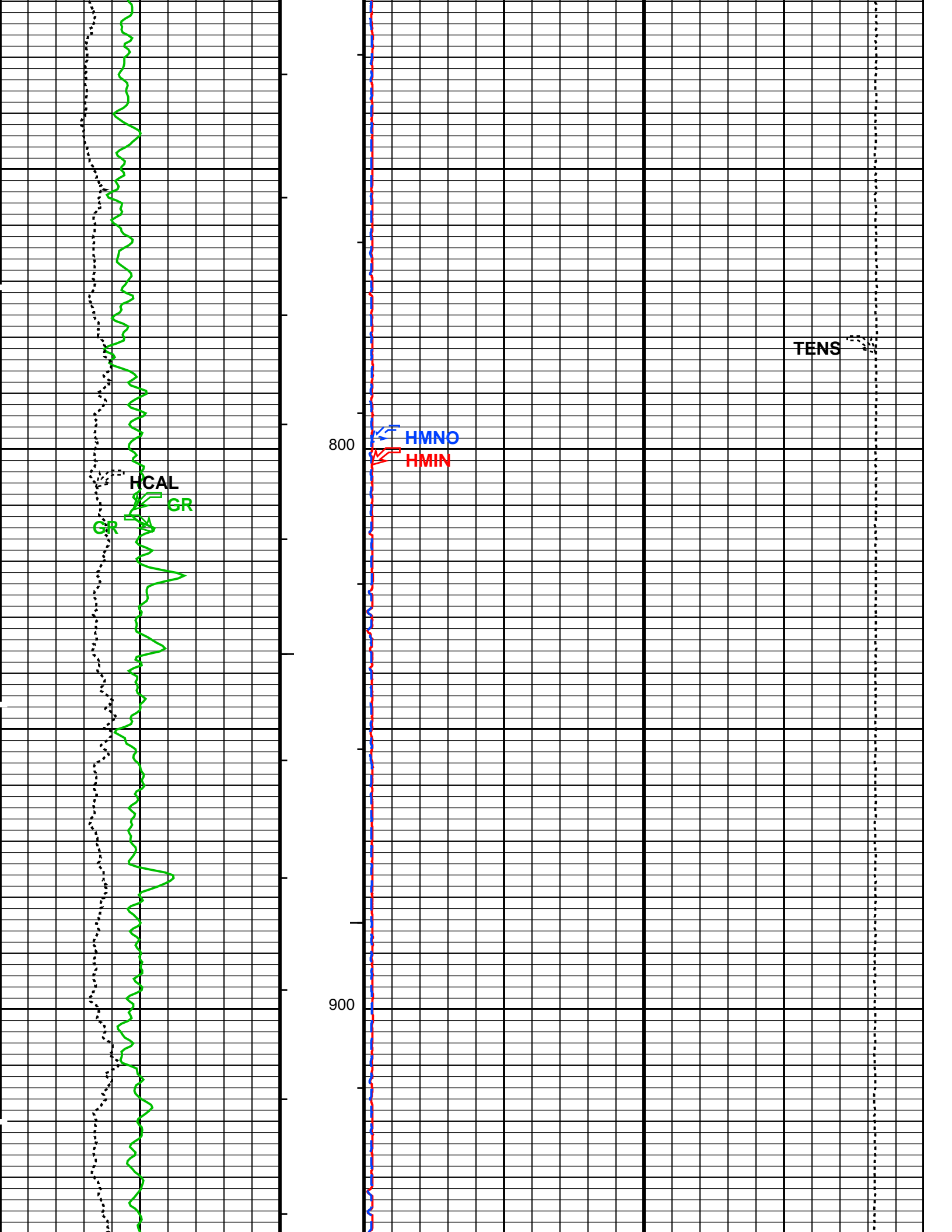
HMNO
HMIN

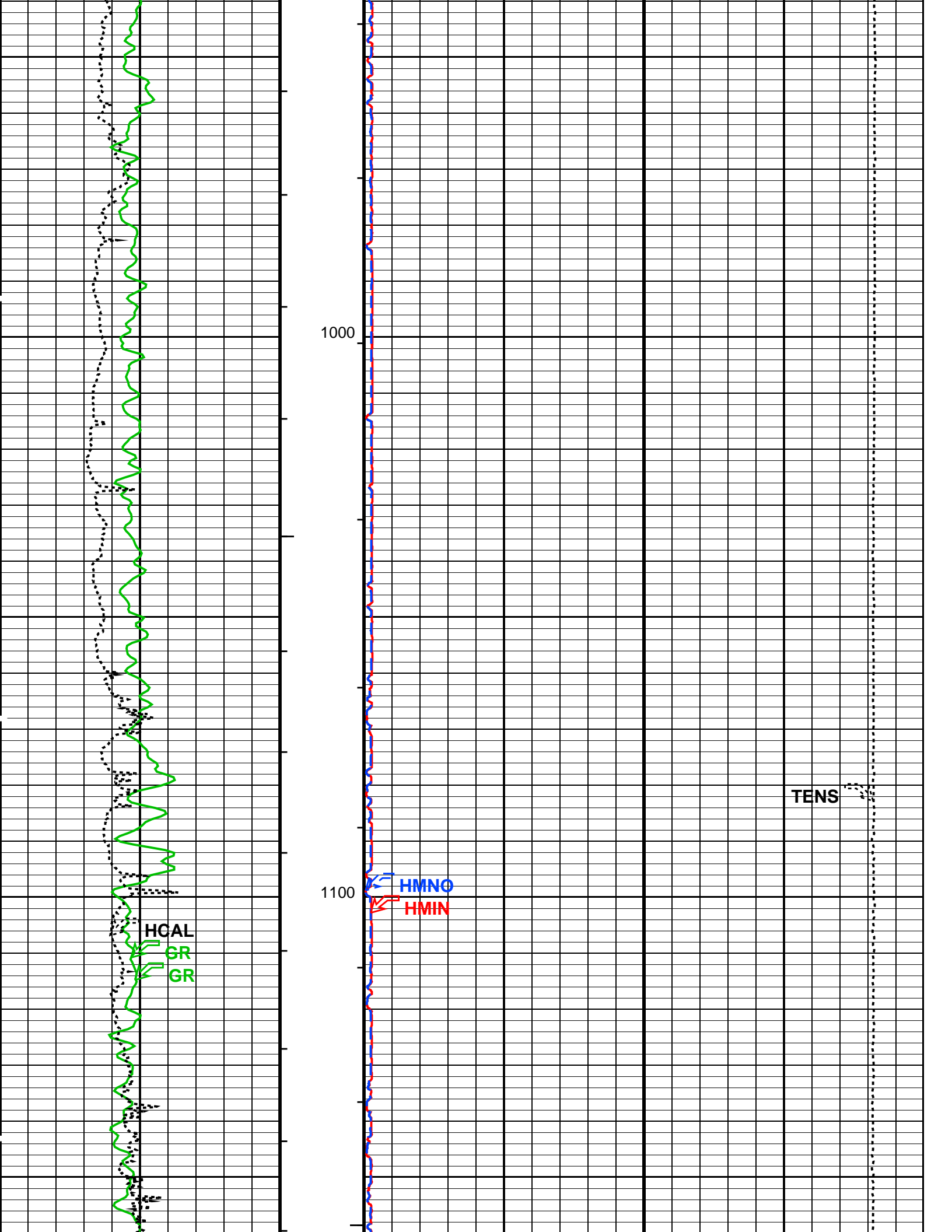
TENS

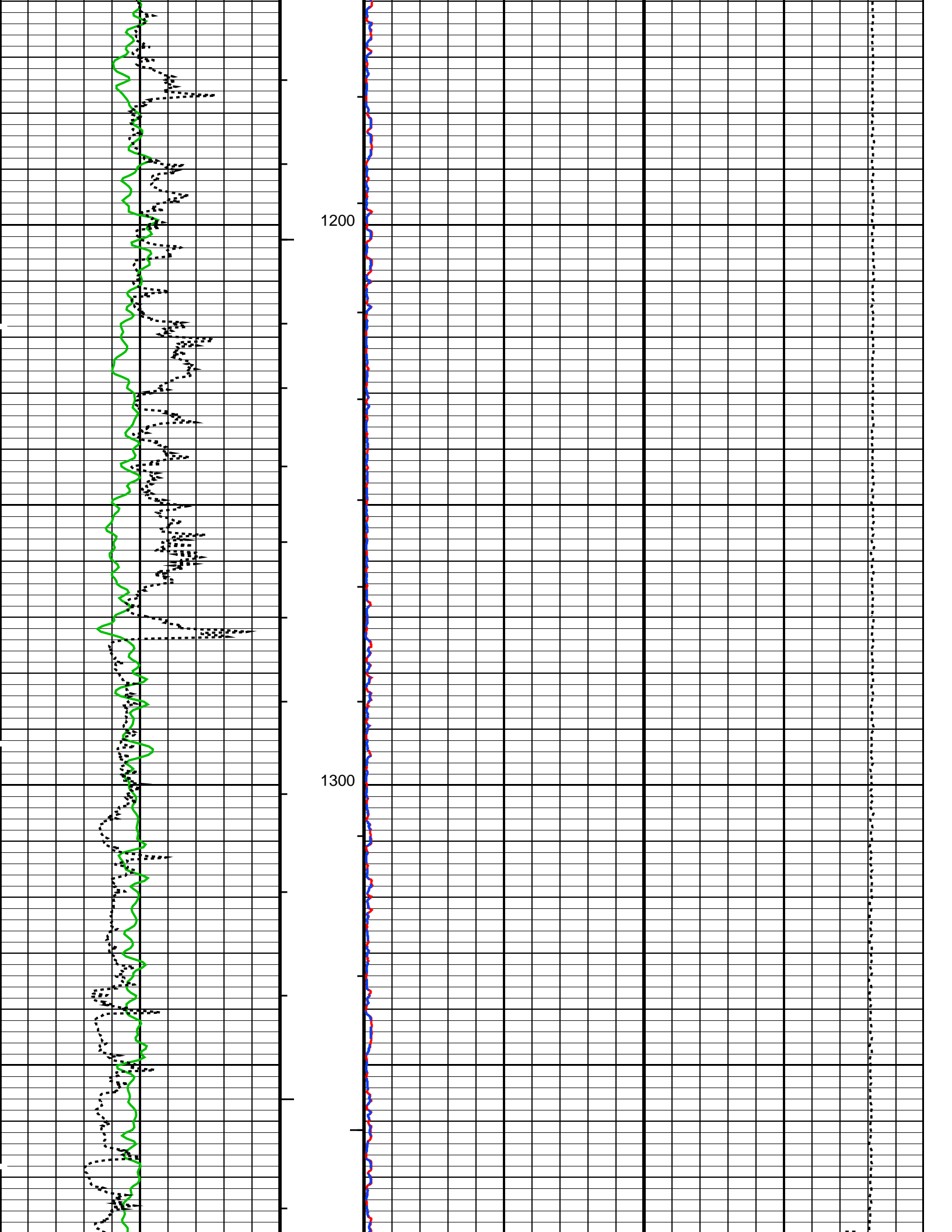
HCAL
GR
GR

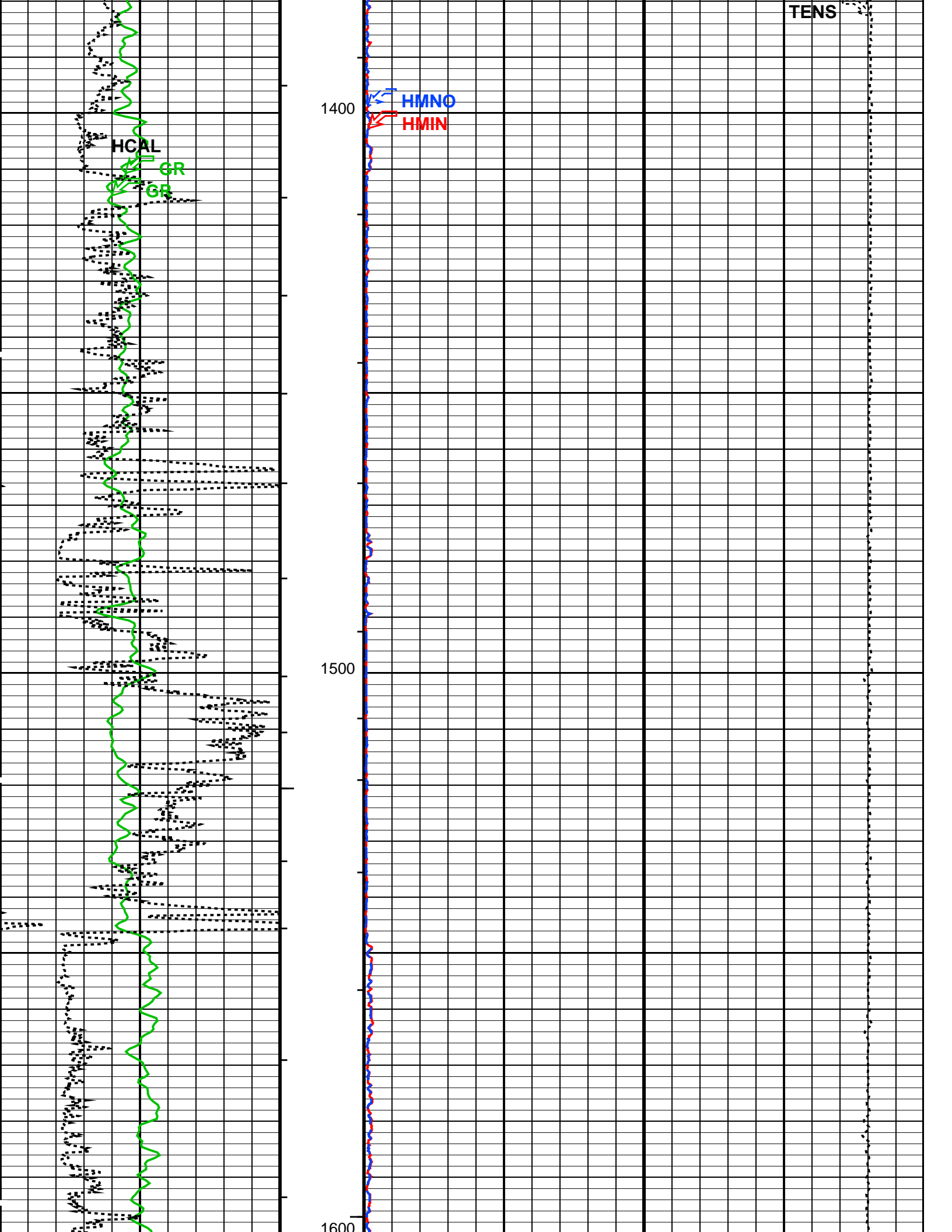


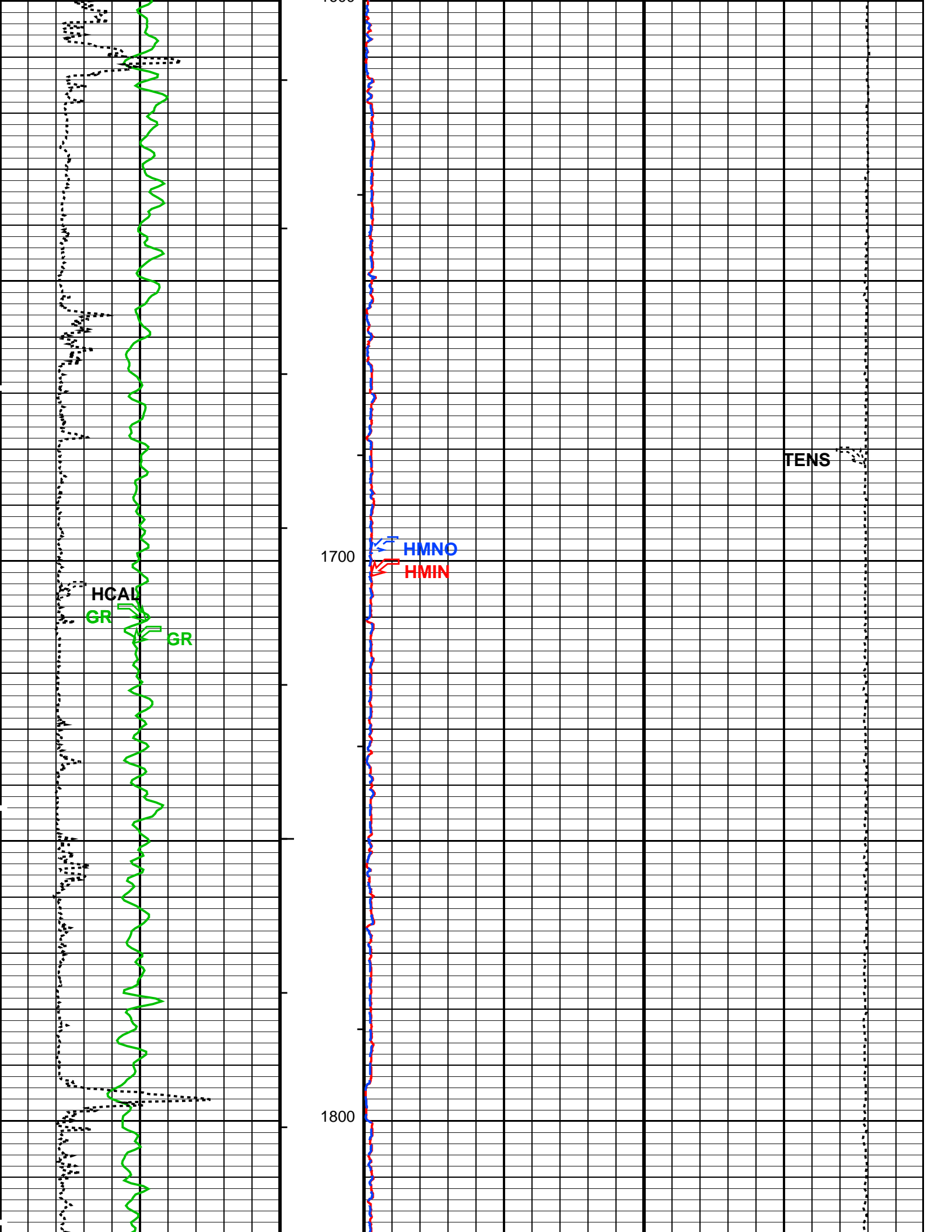


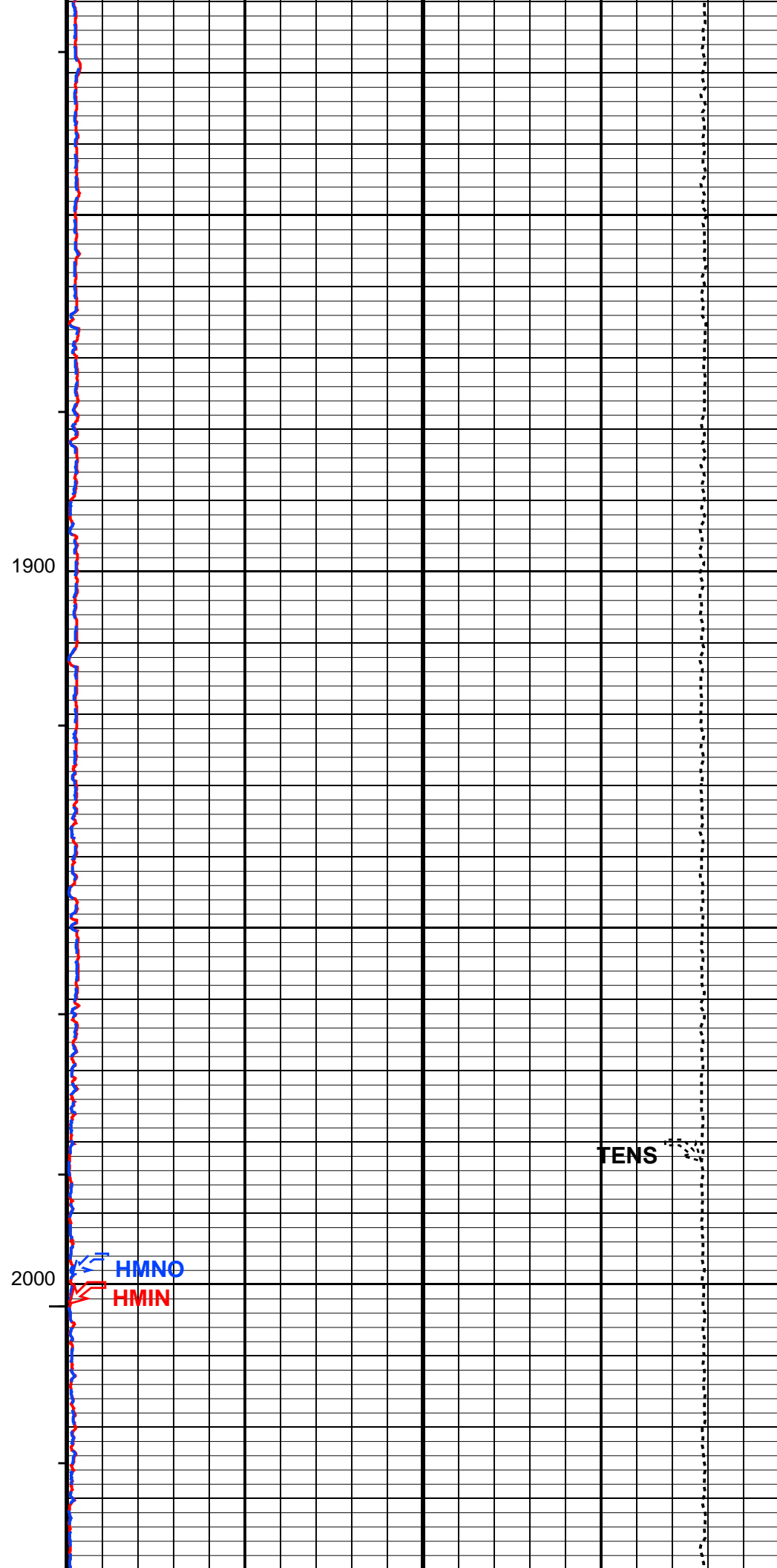
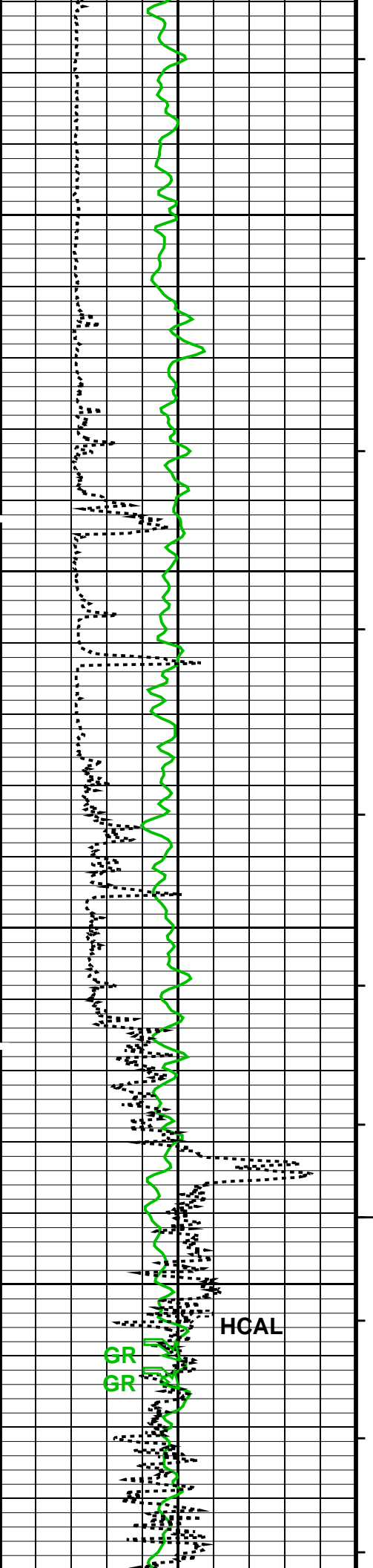


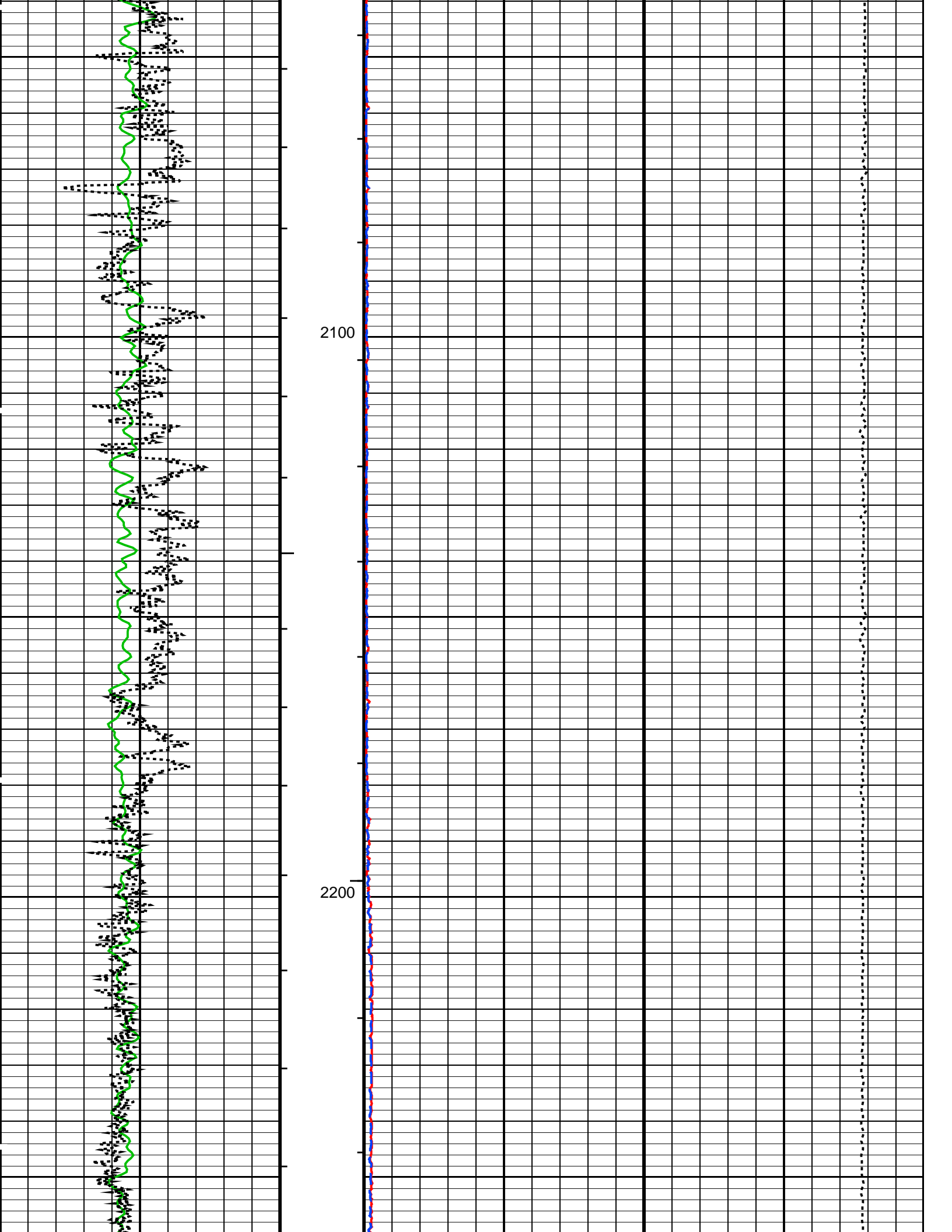


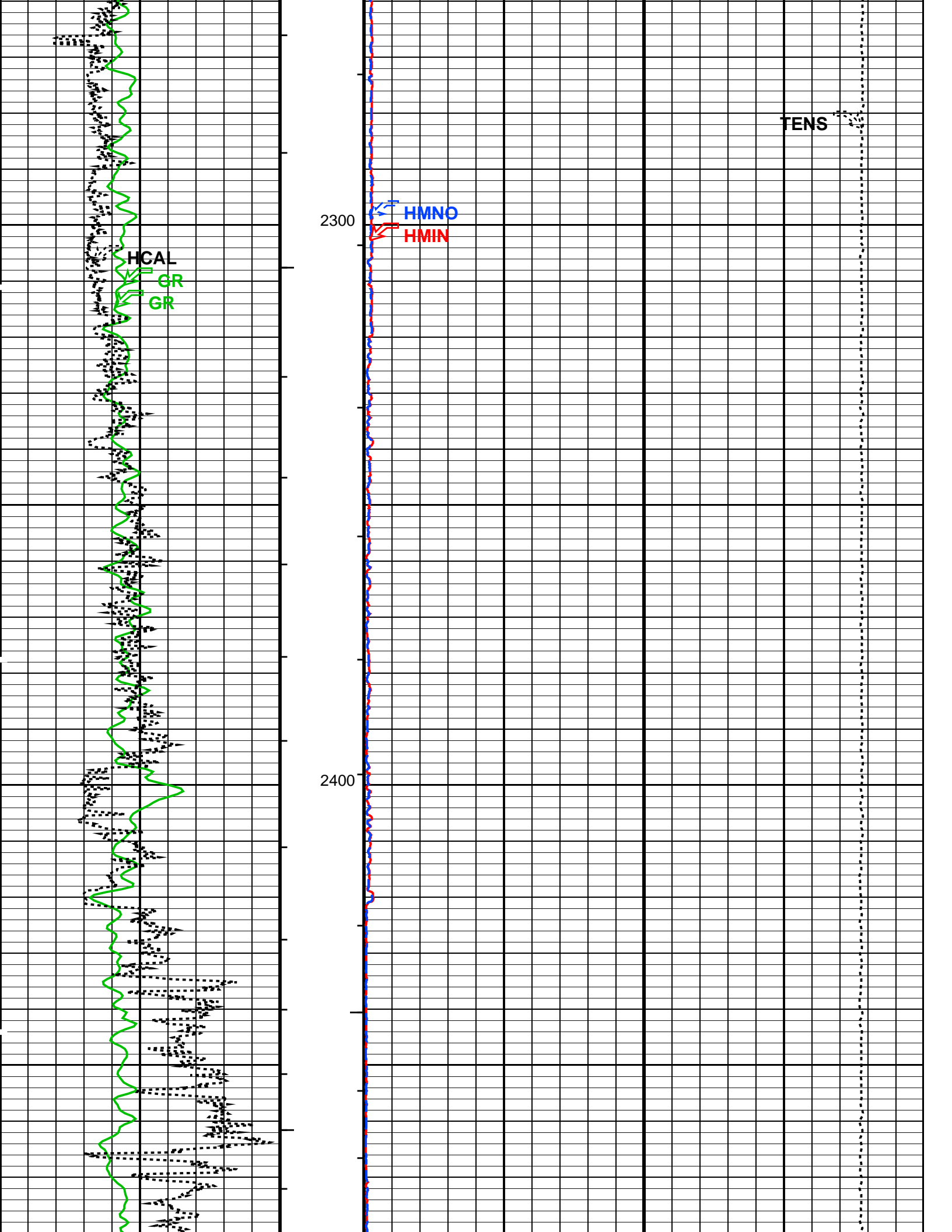


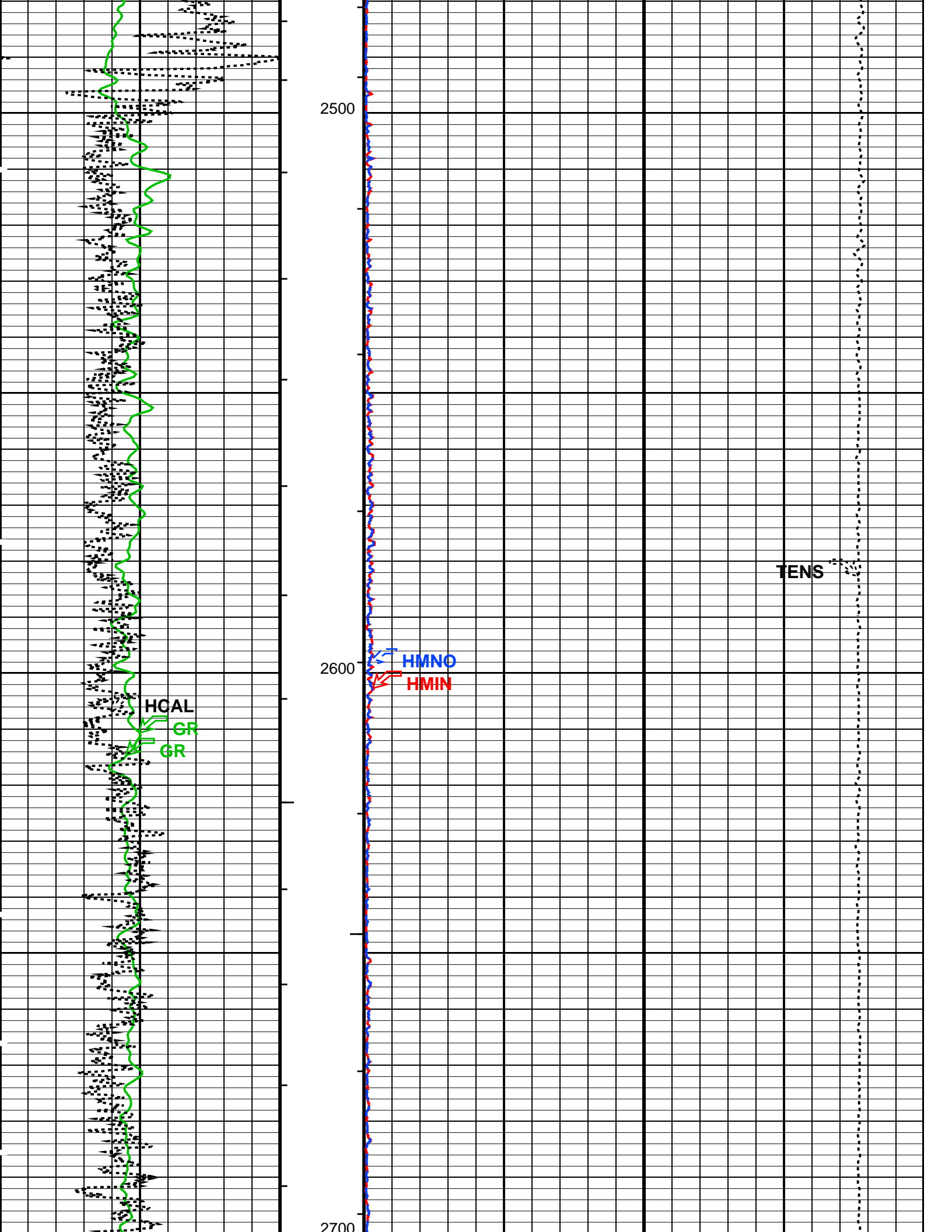


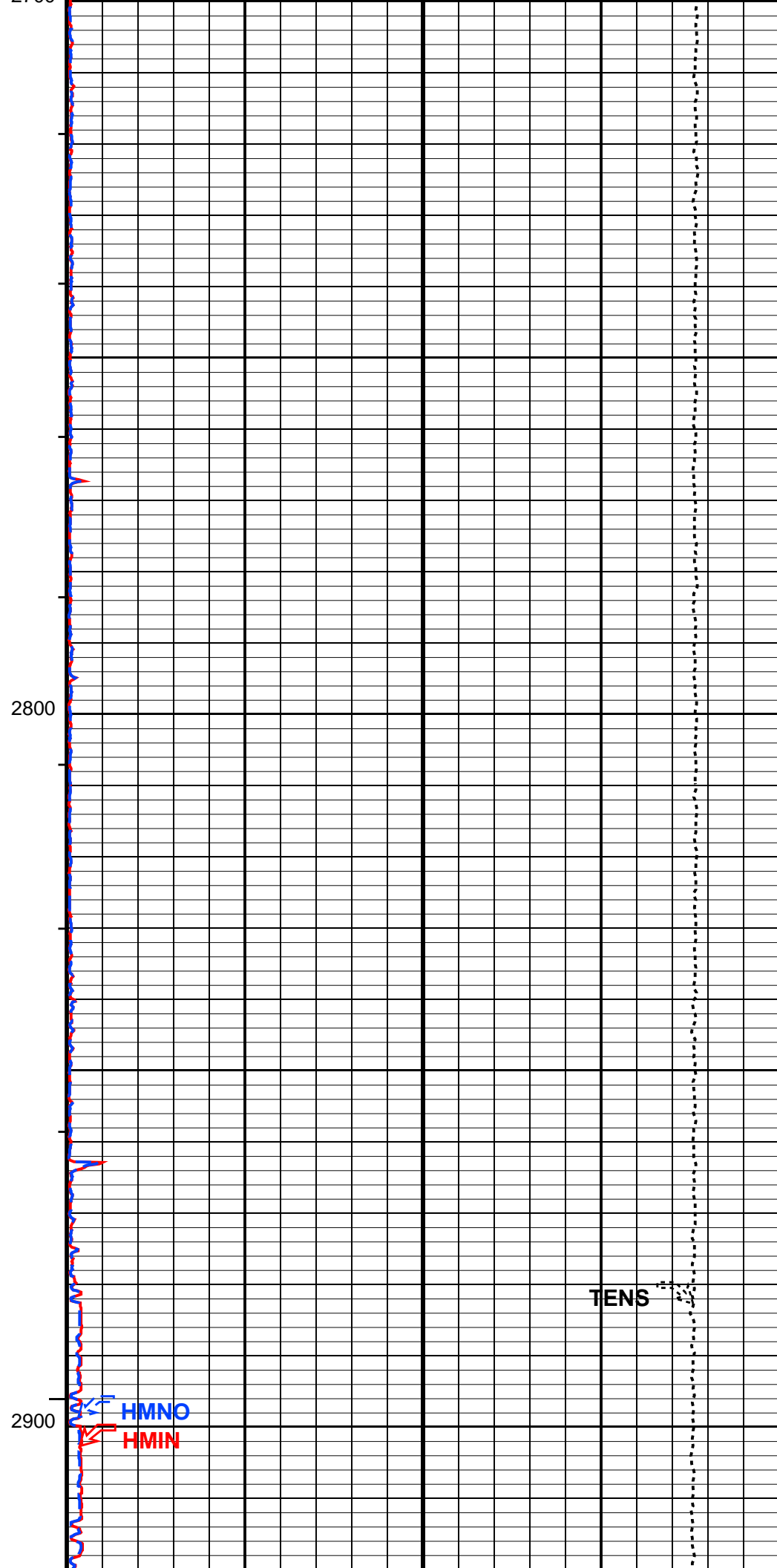
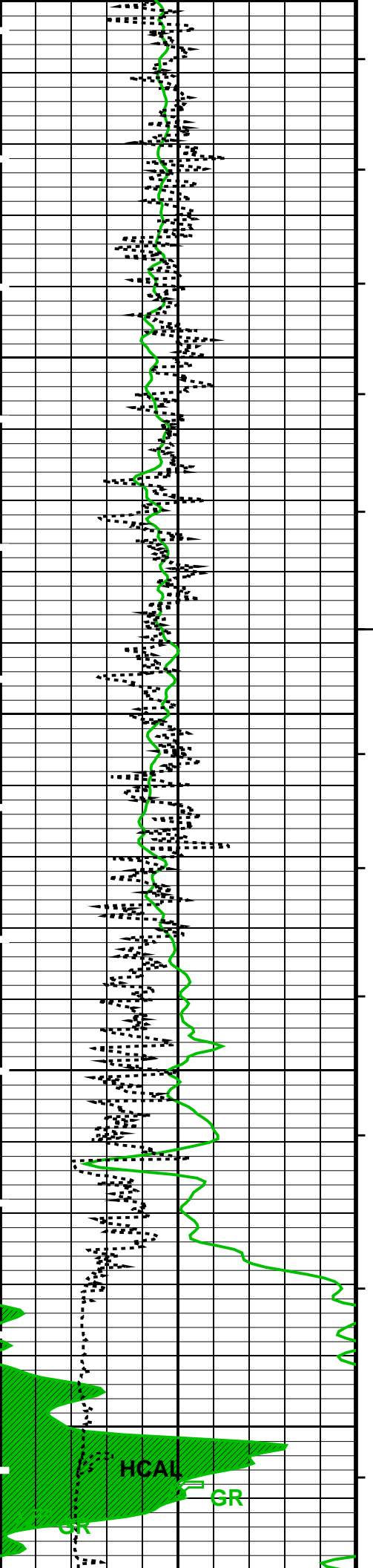


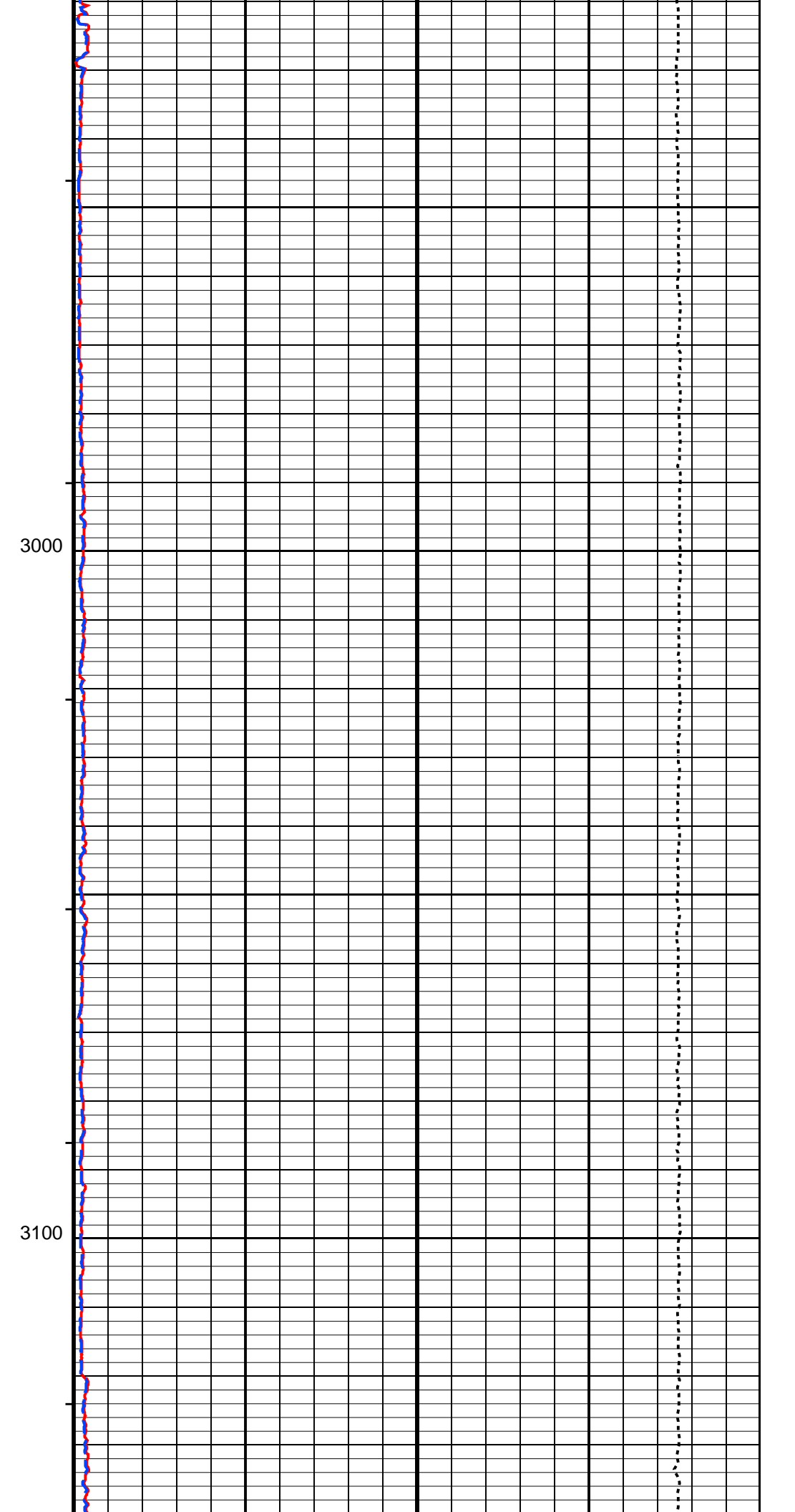
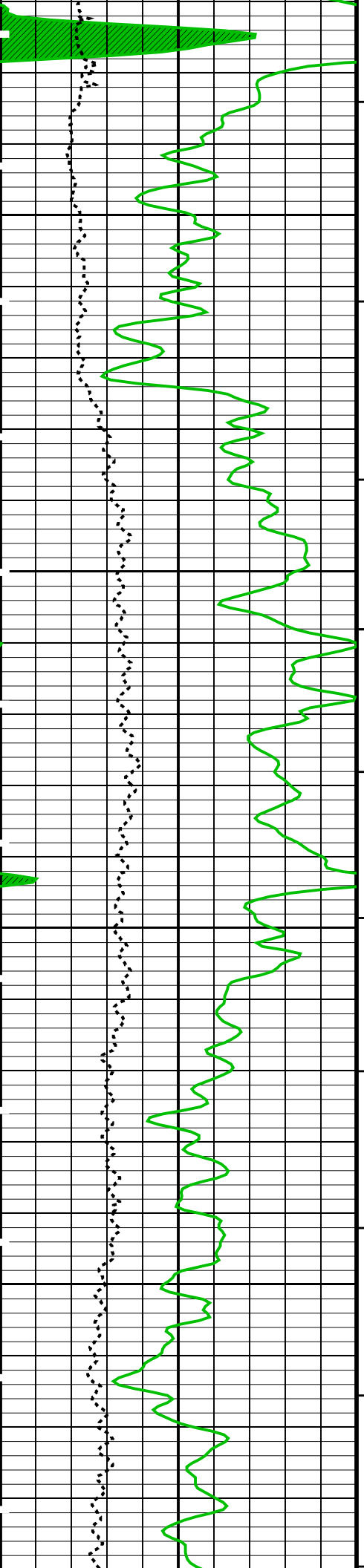


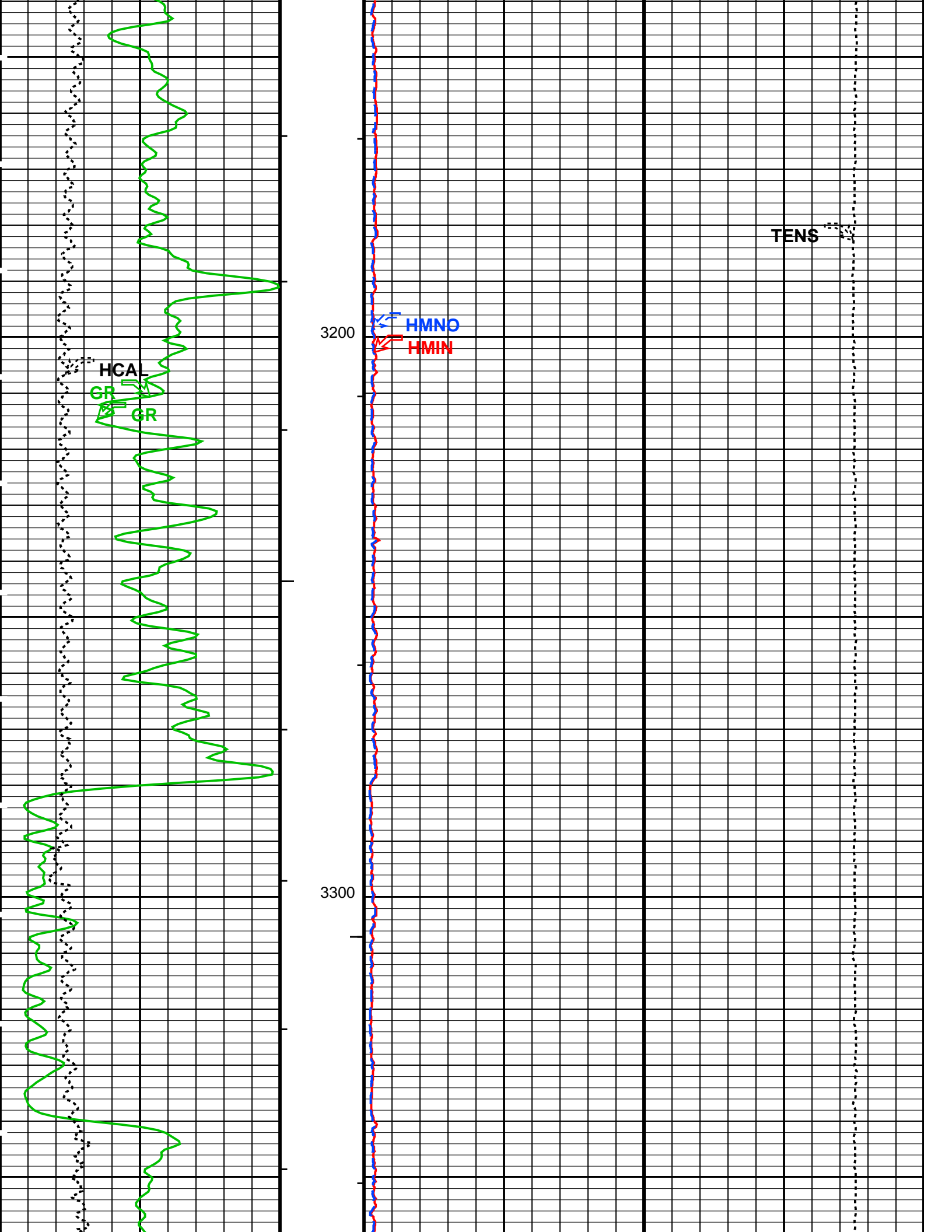


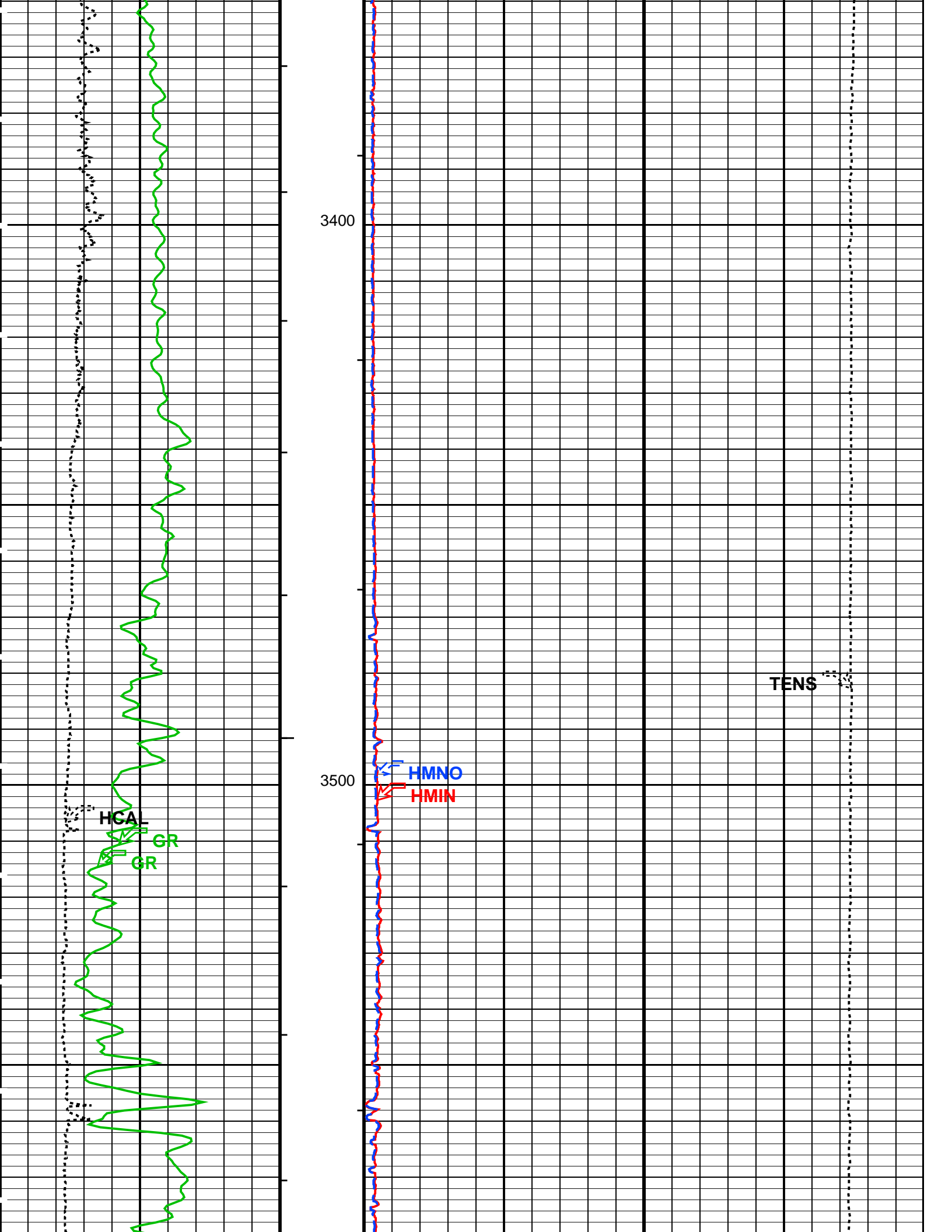


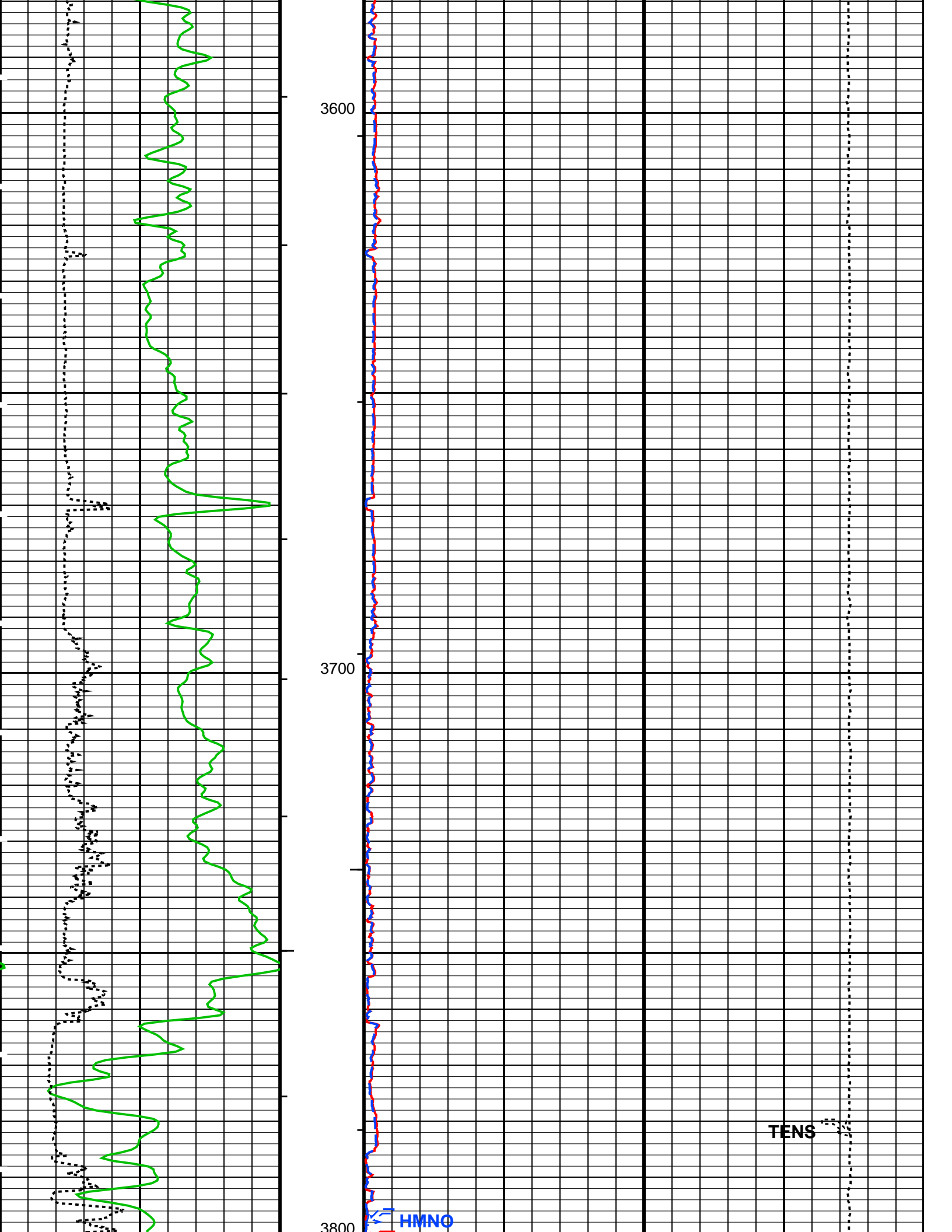


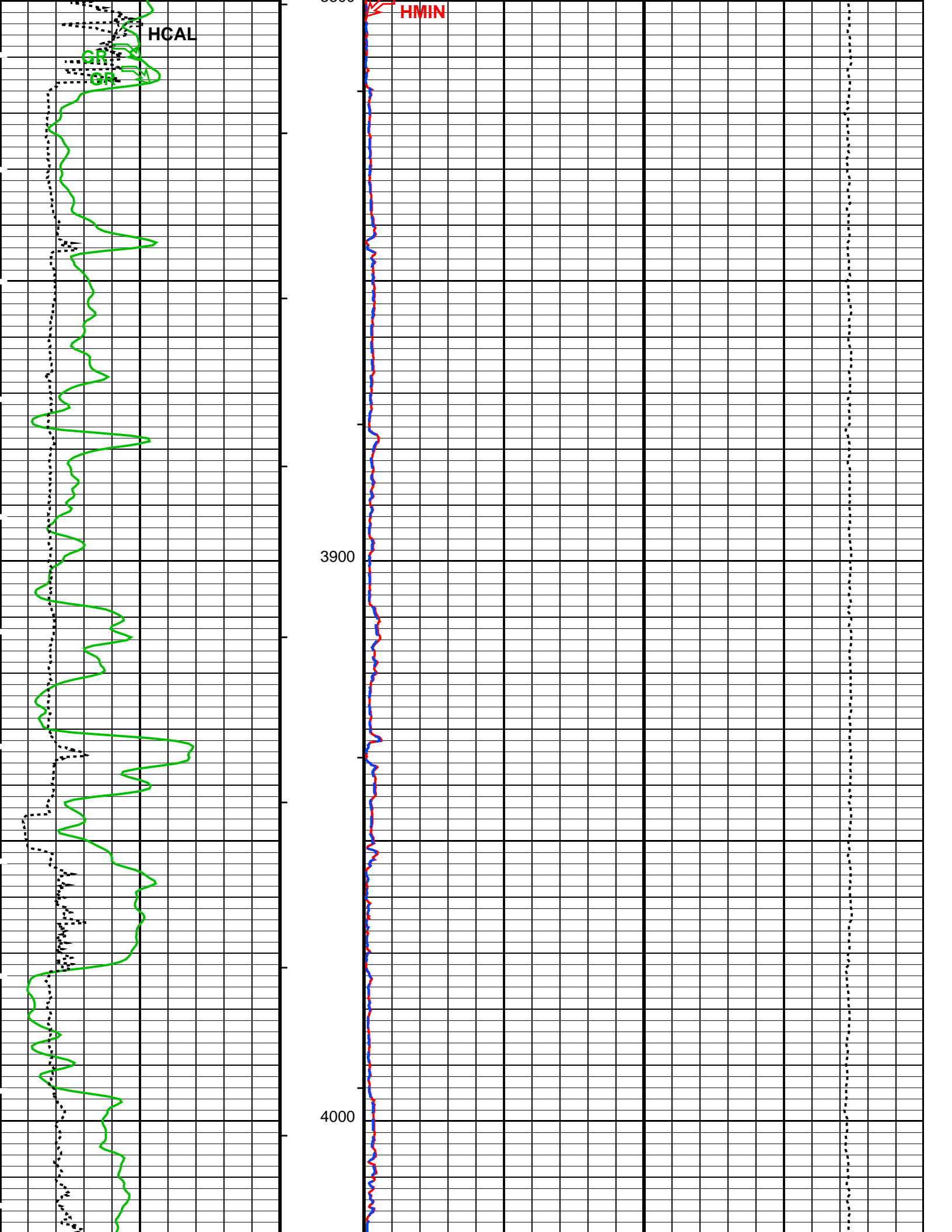


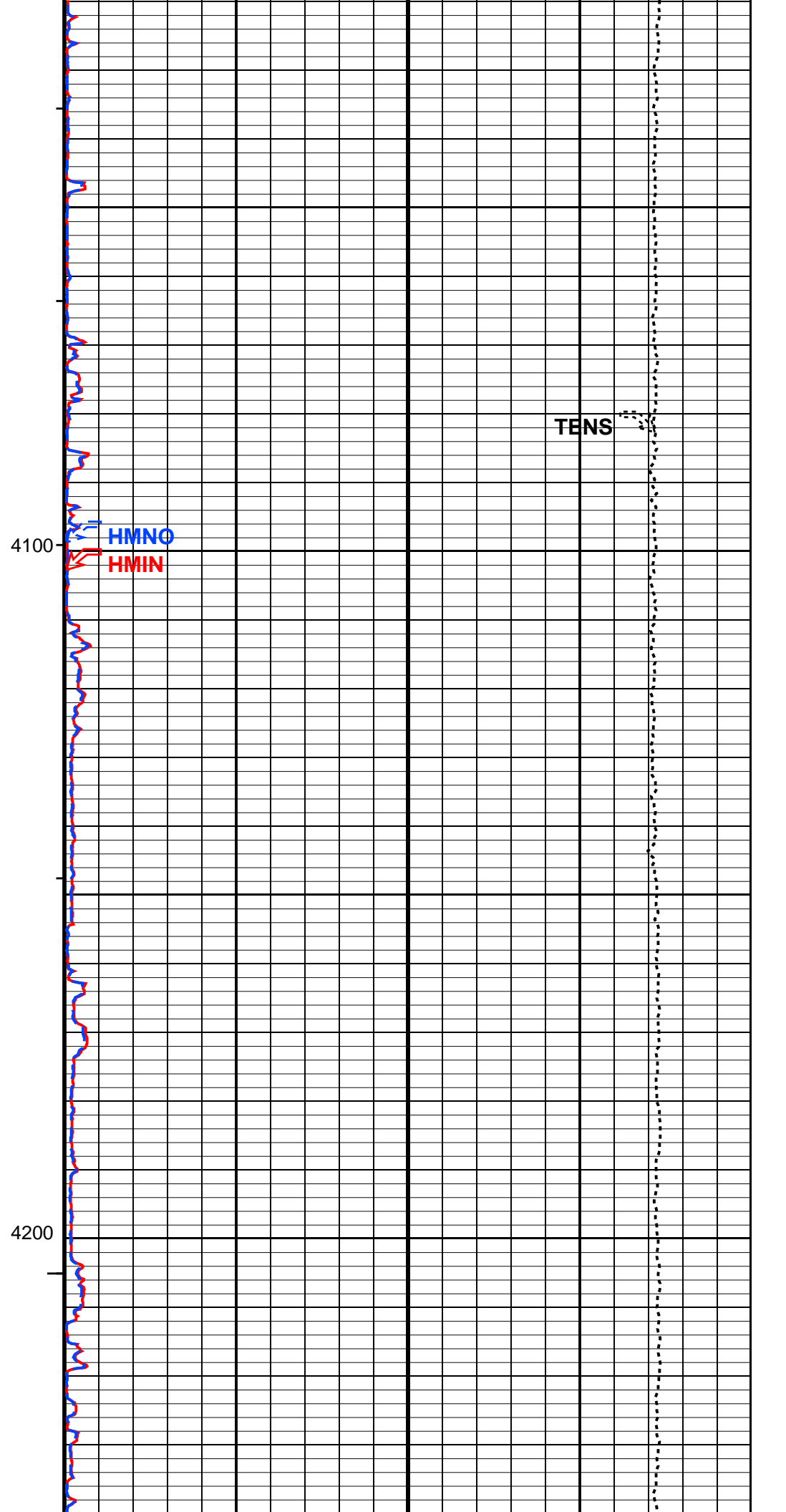
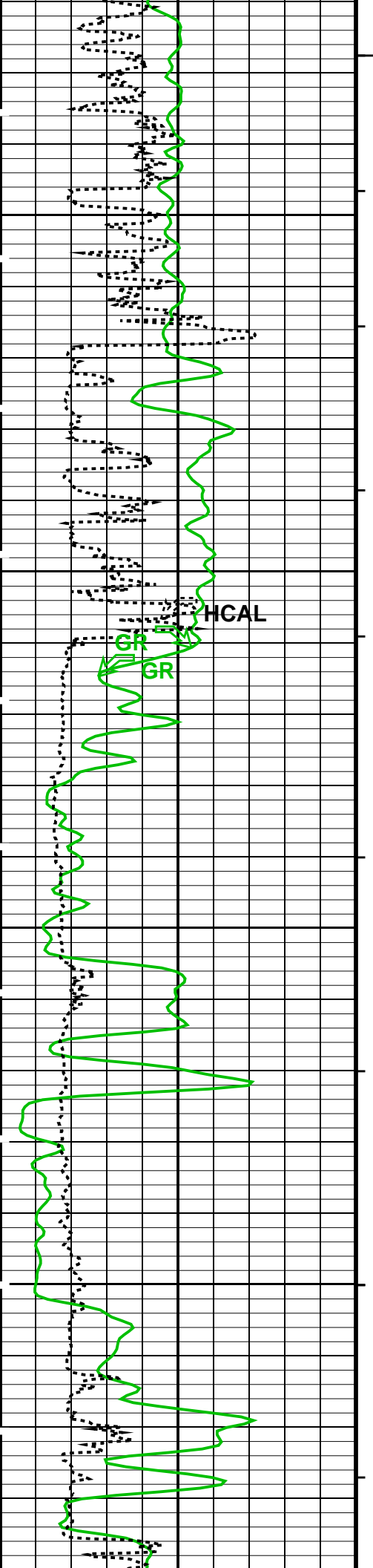


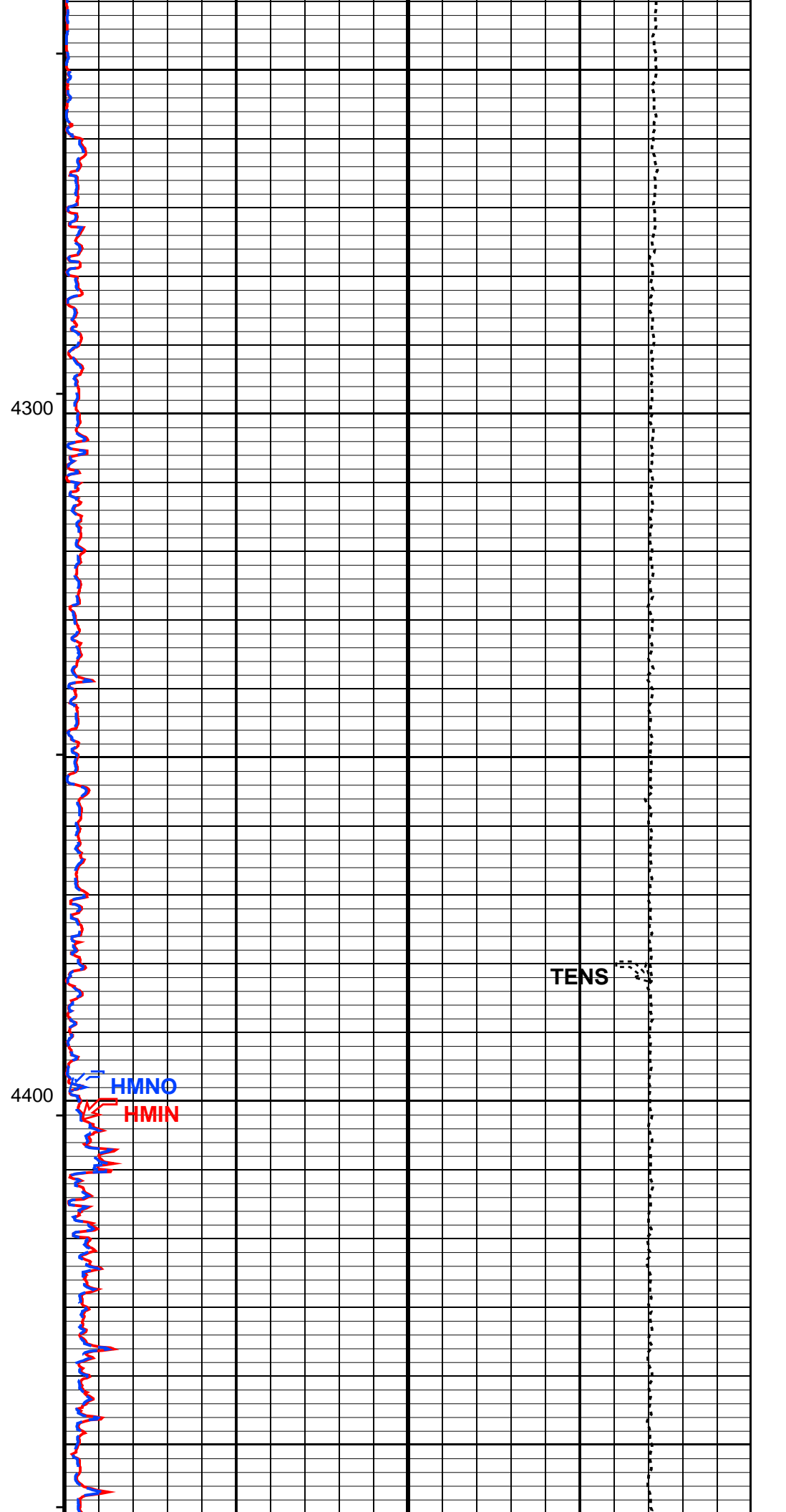
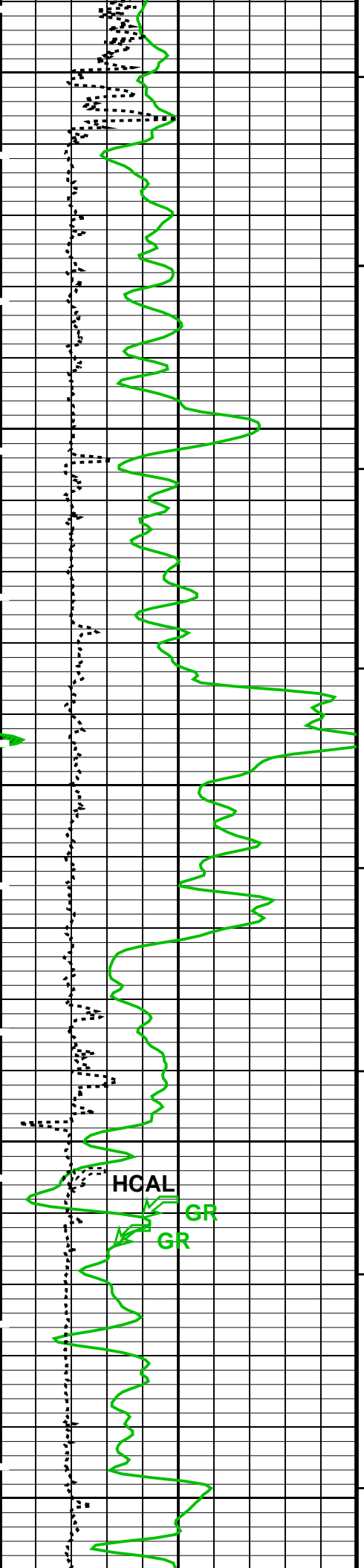


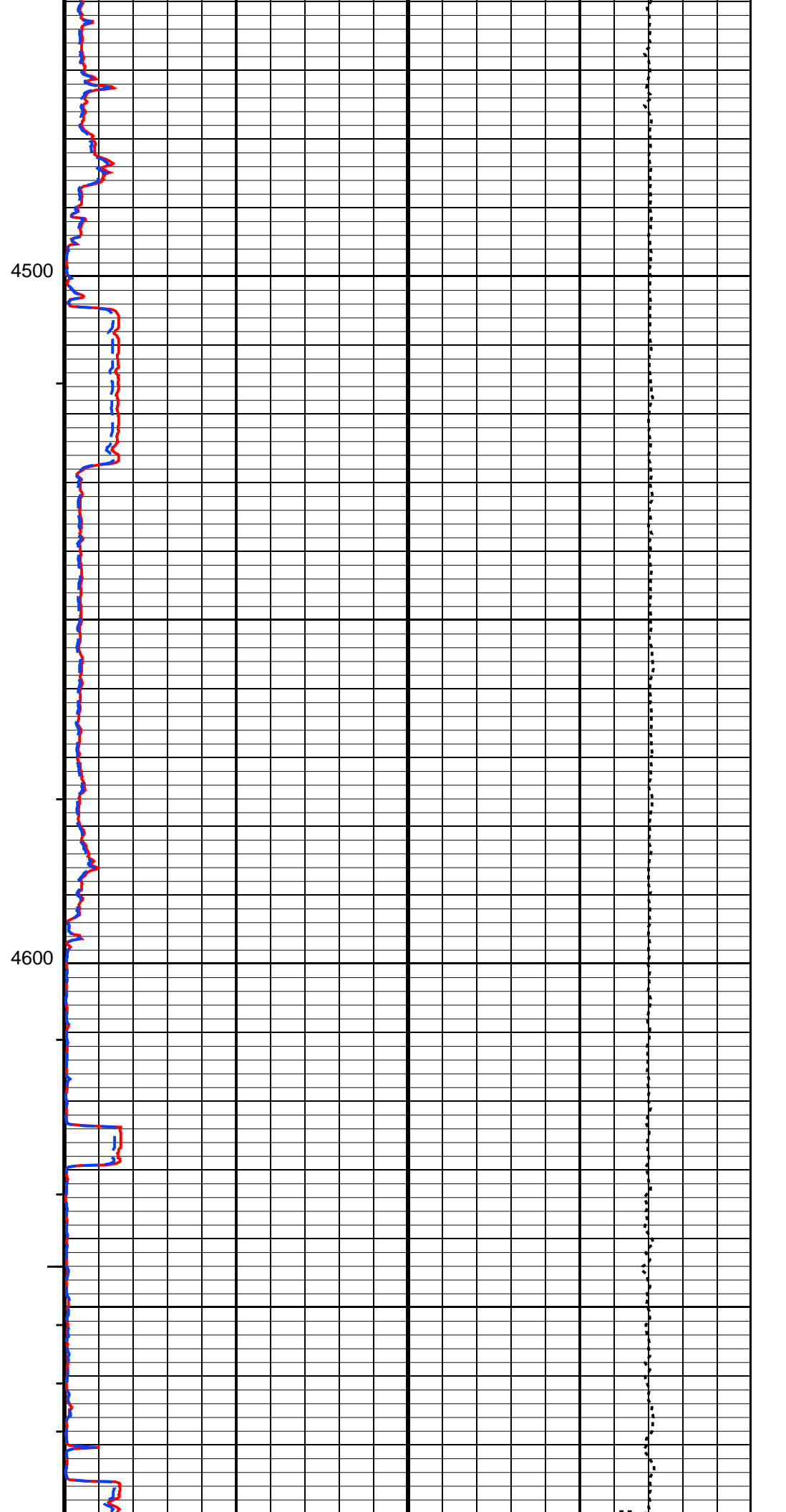
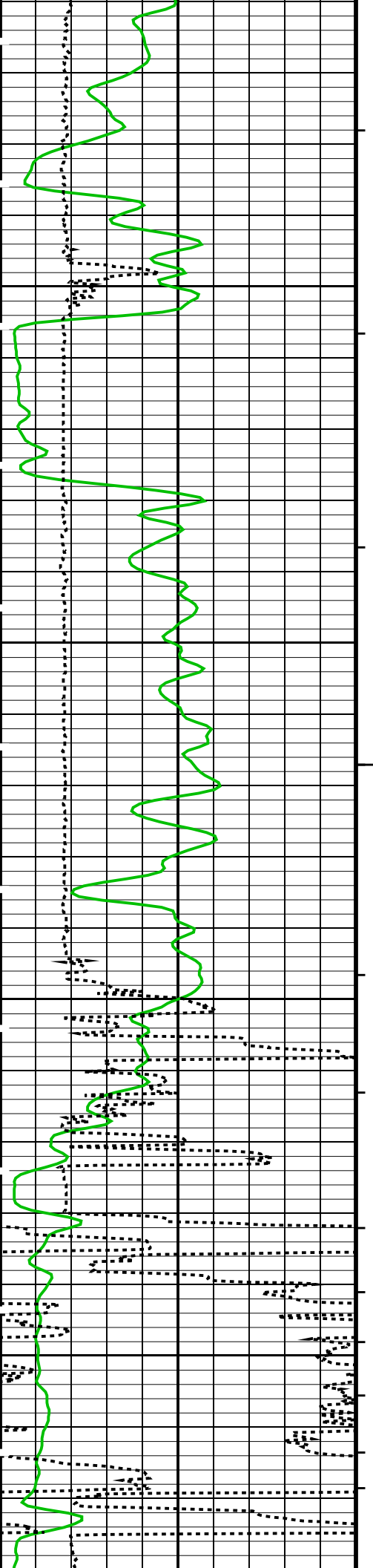


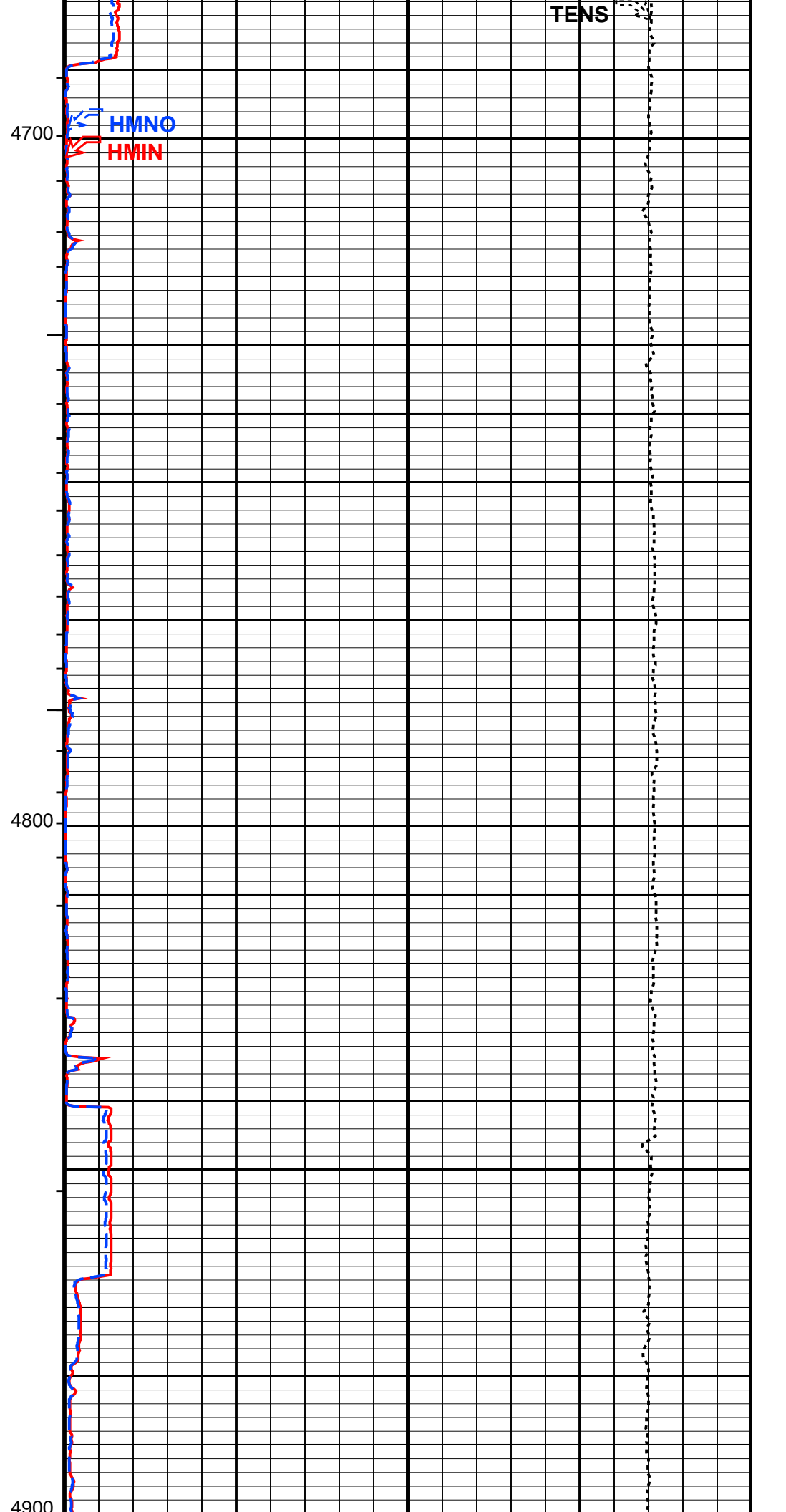
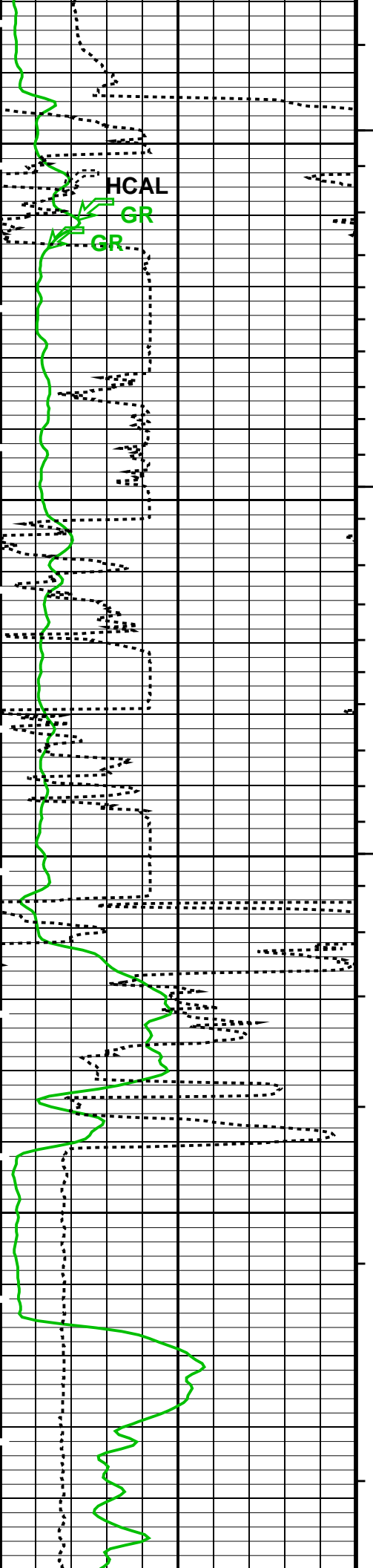


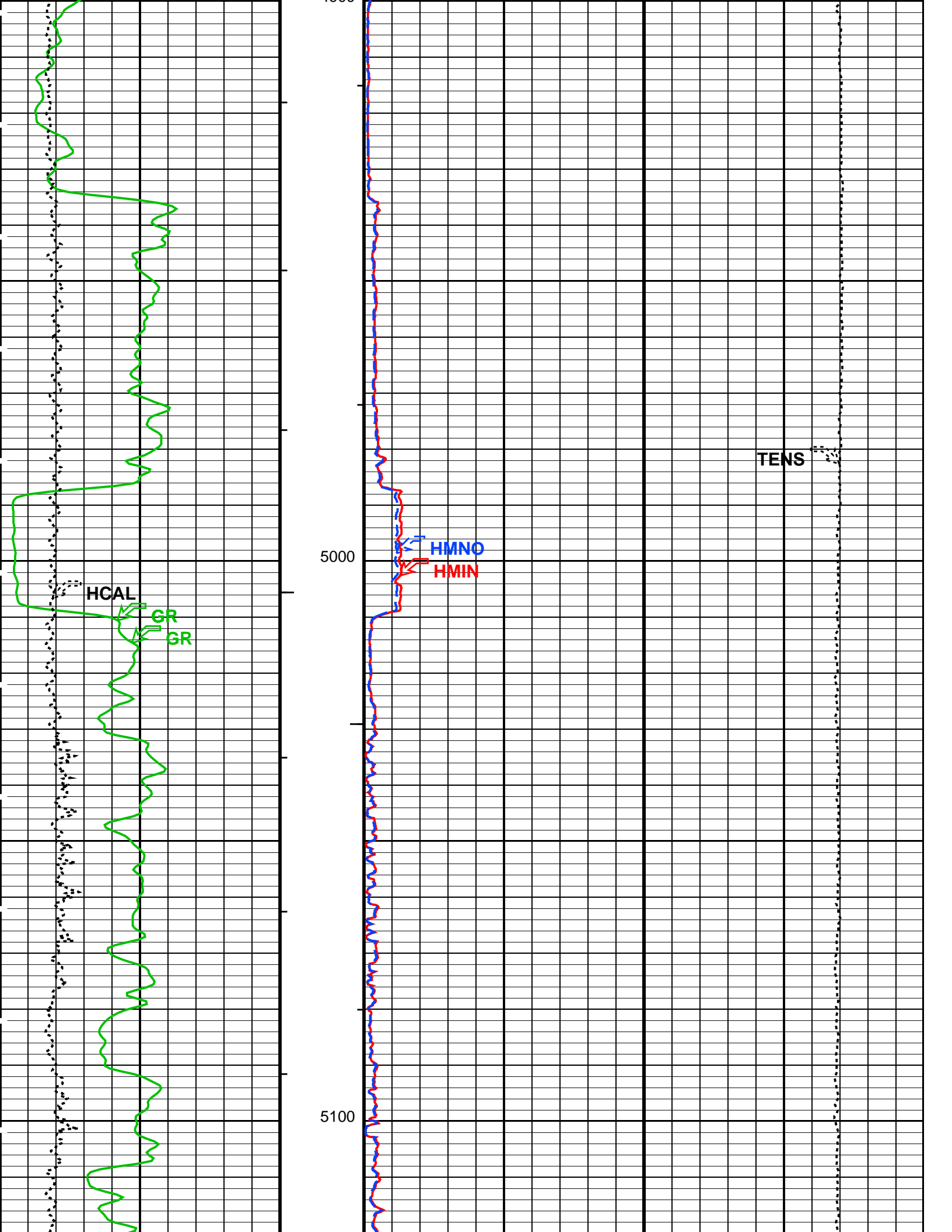


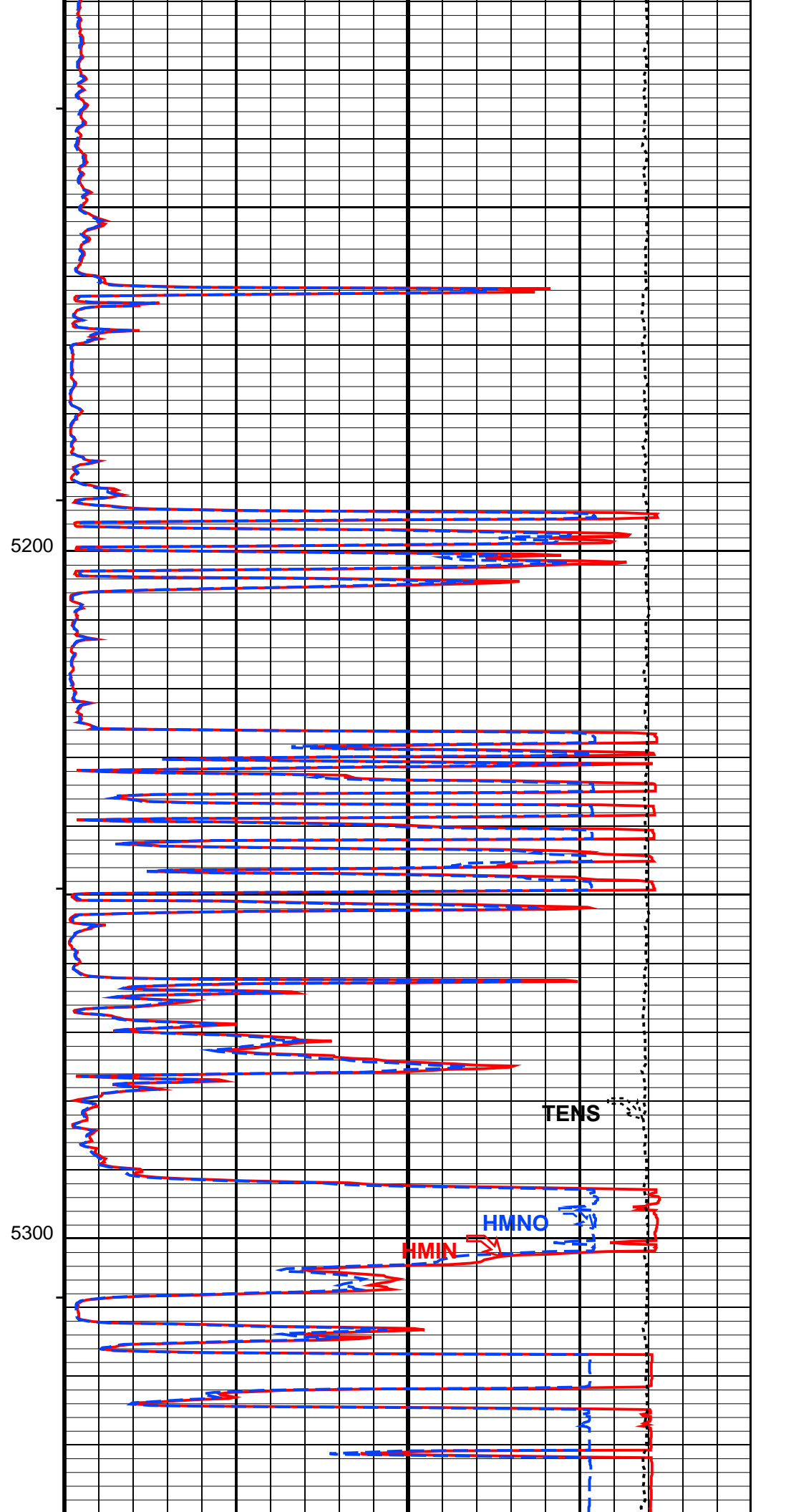
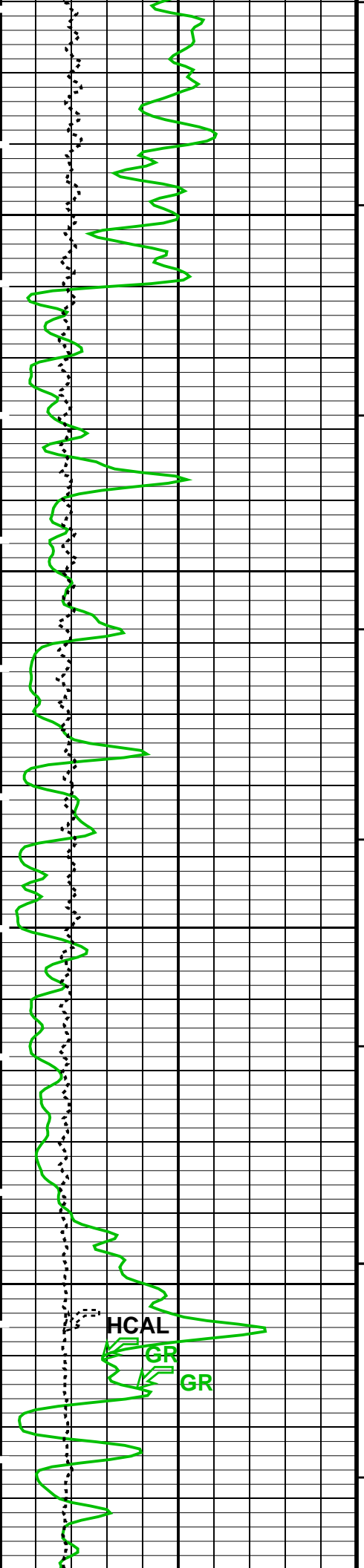


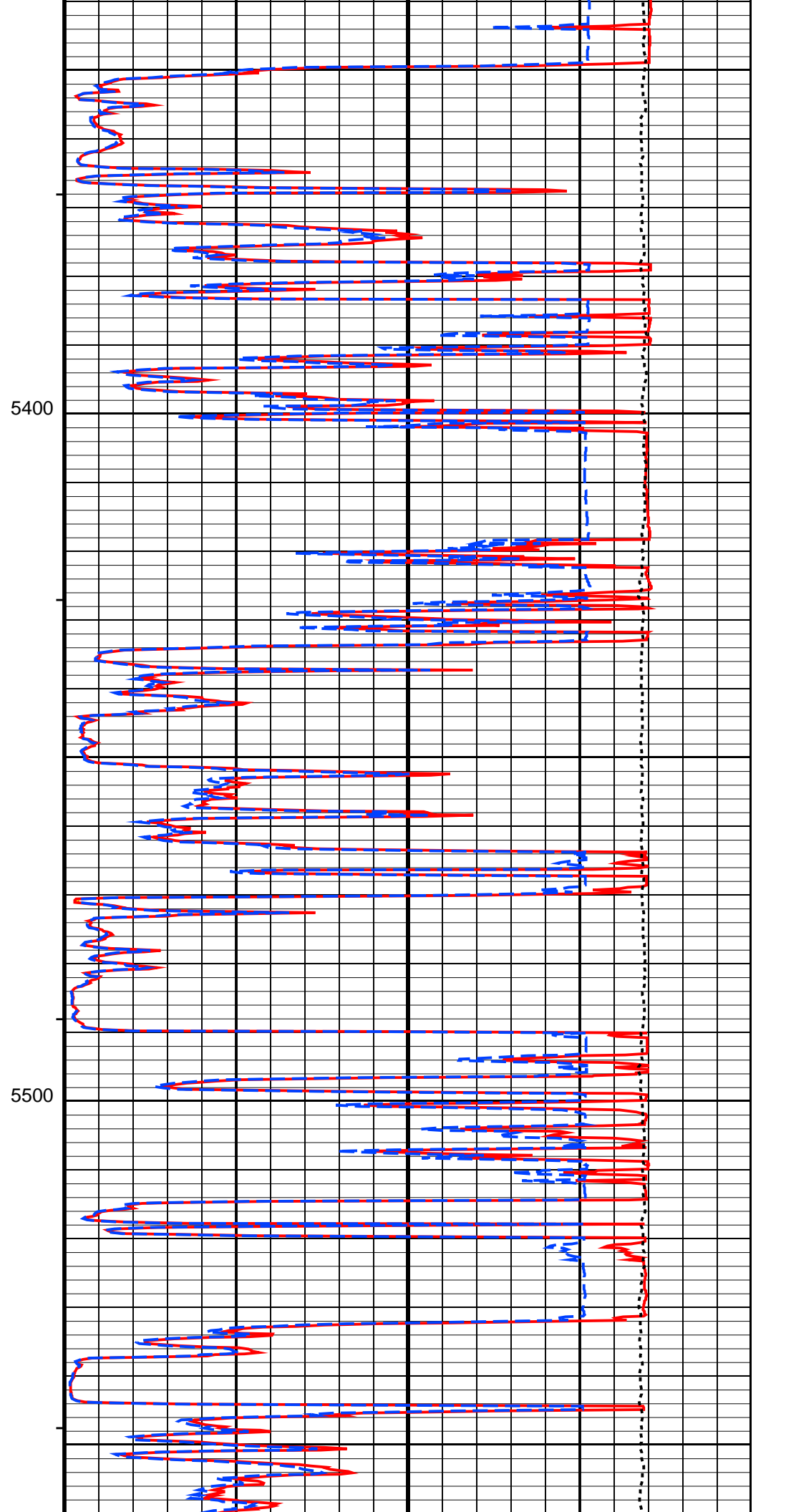
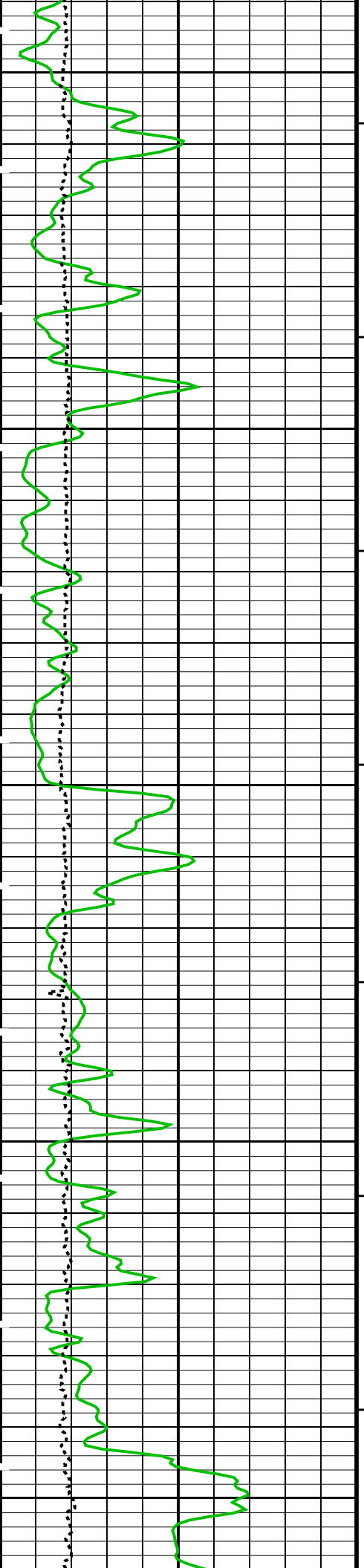


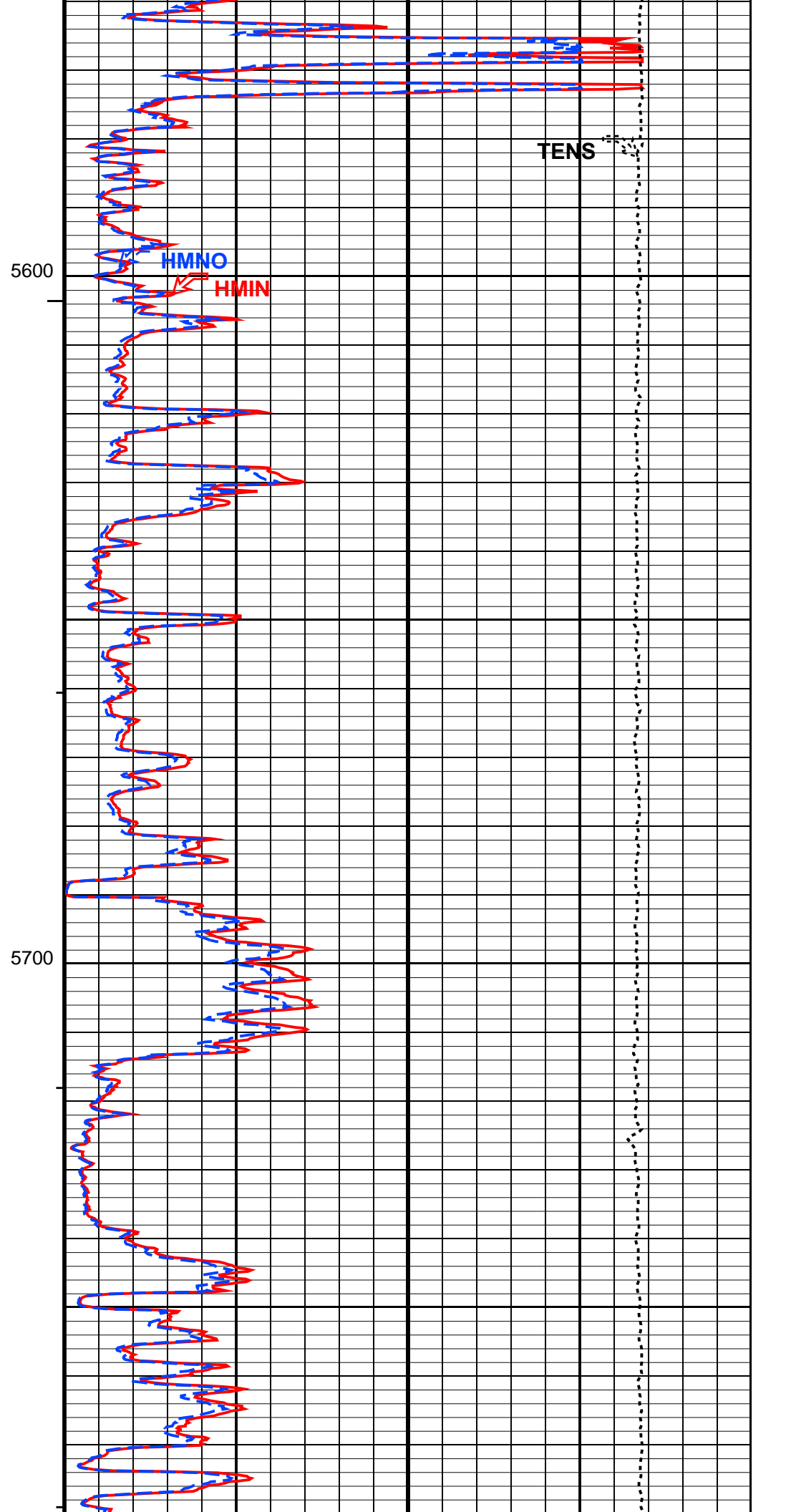
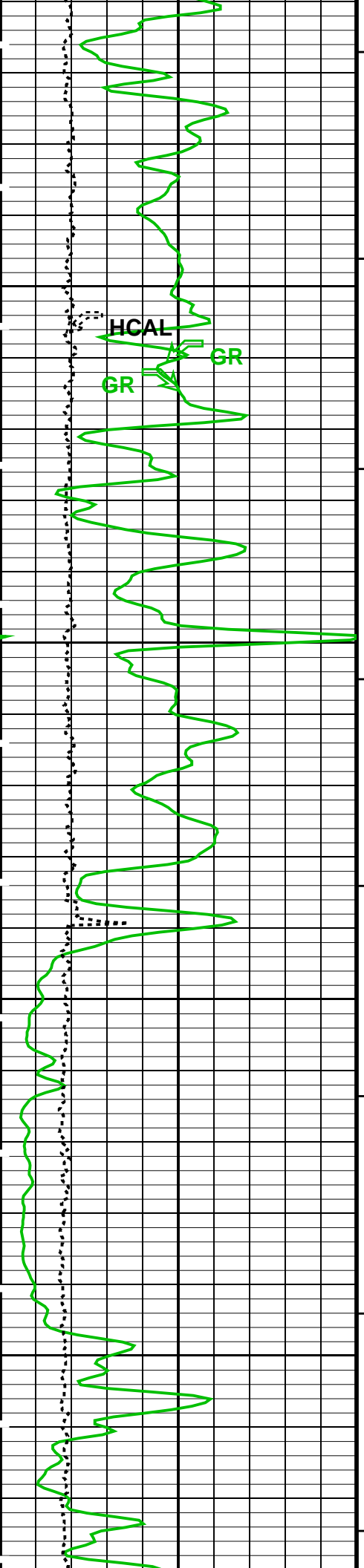


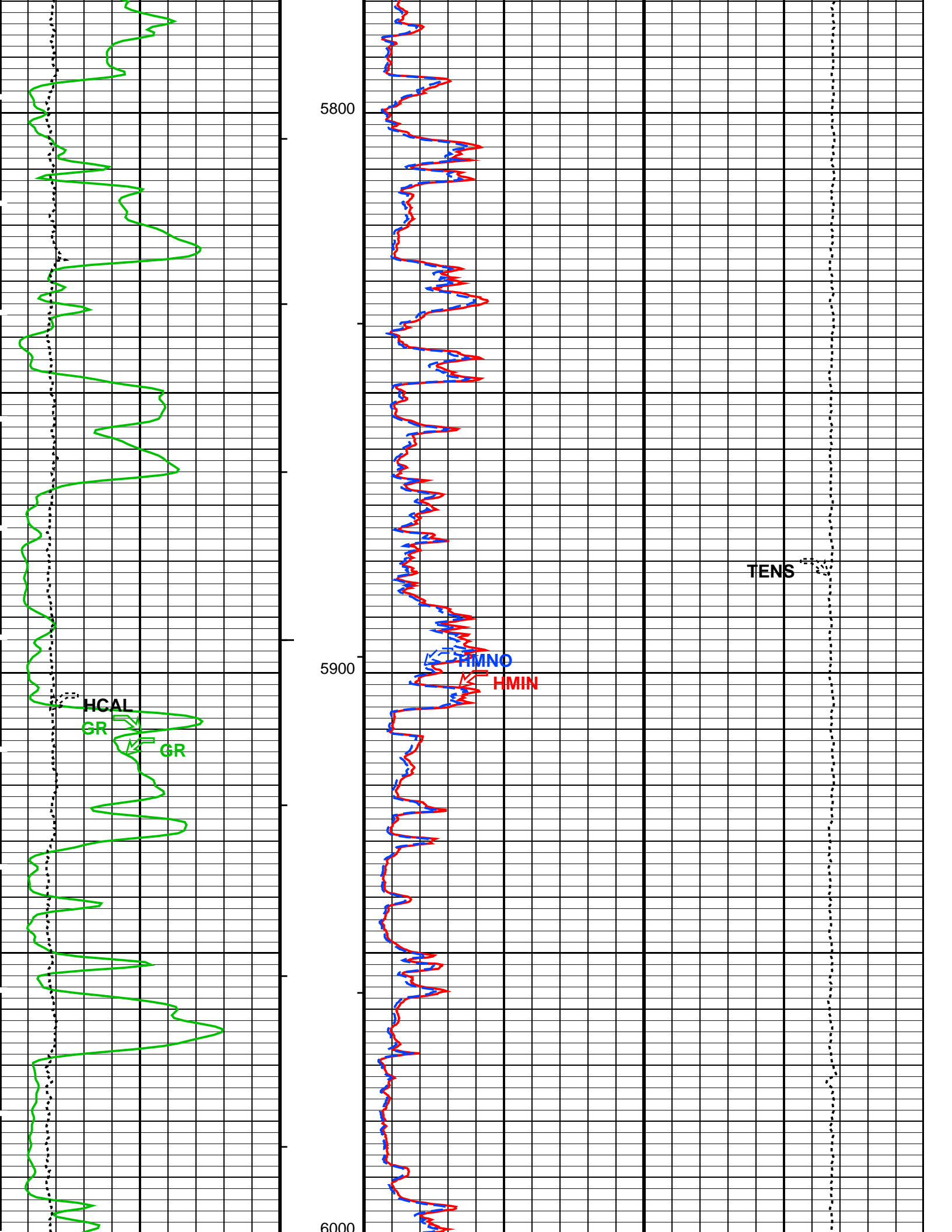


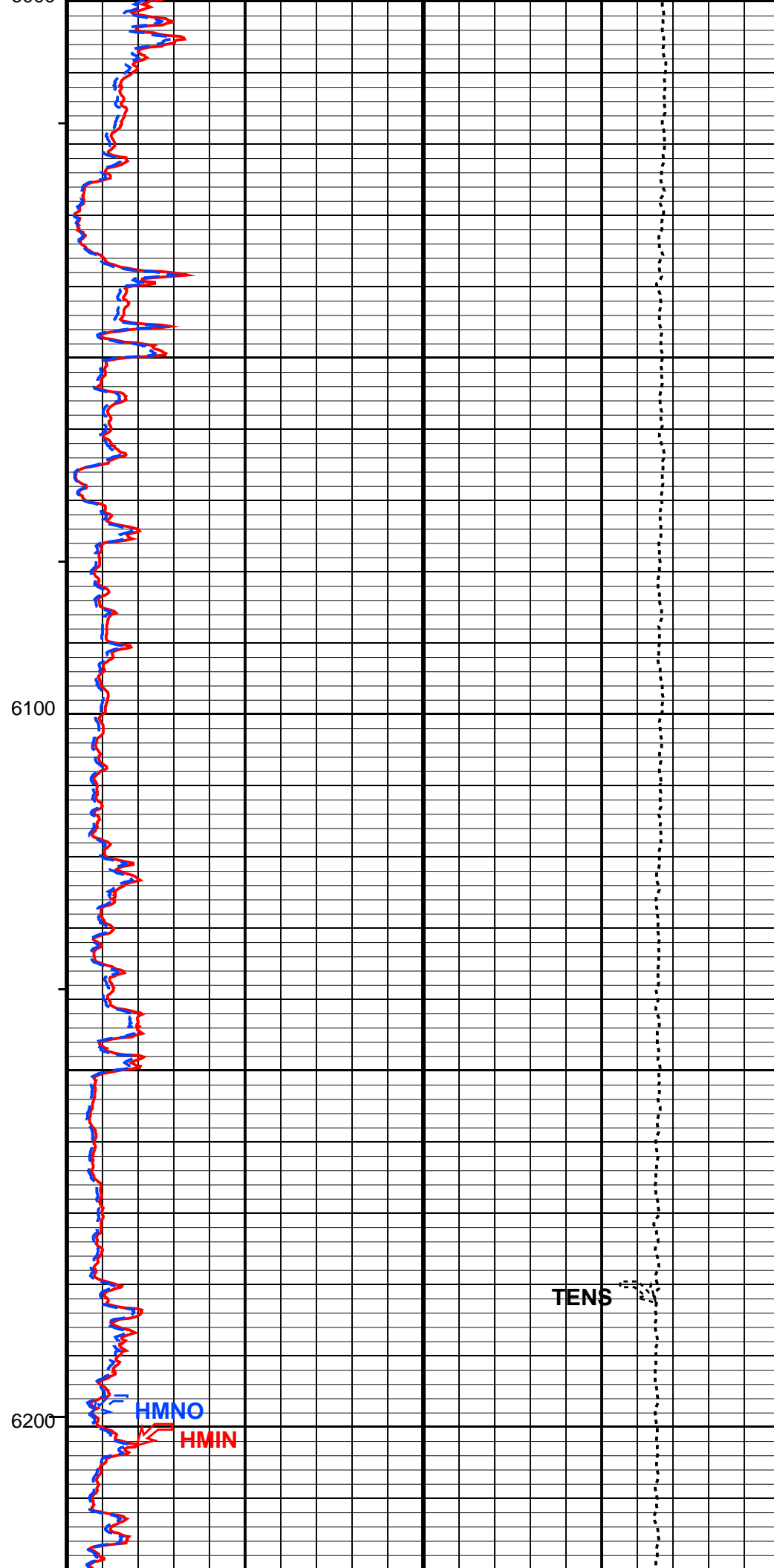
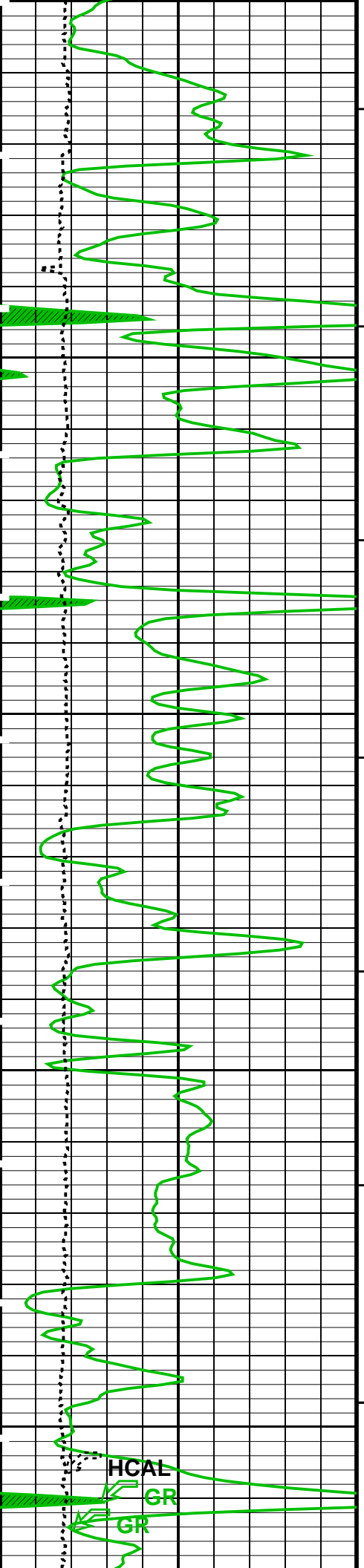


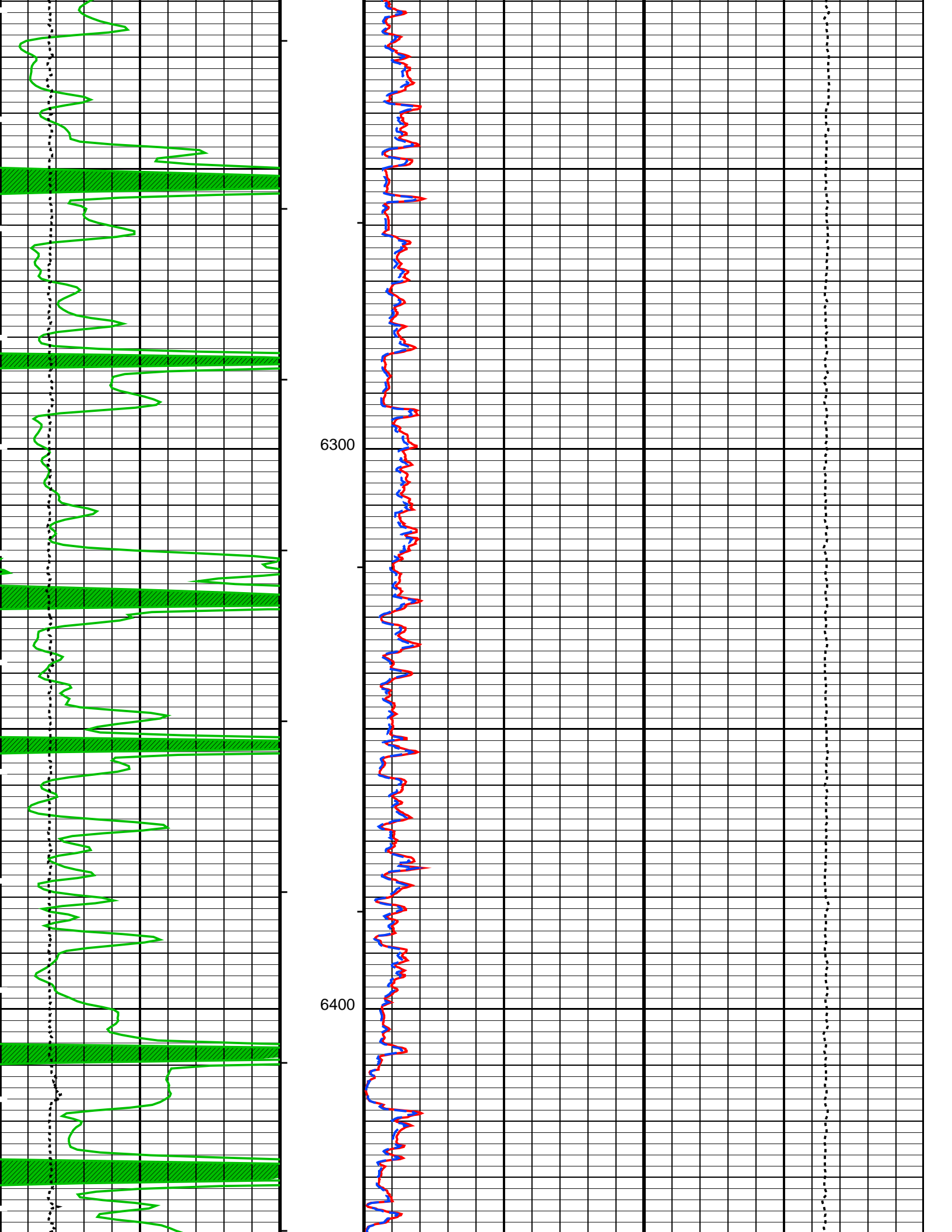


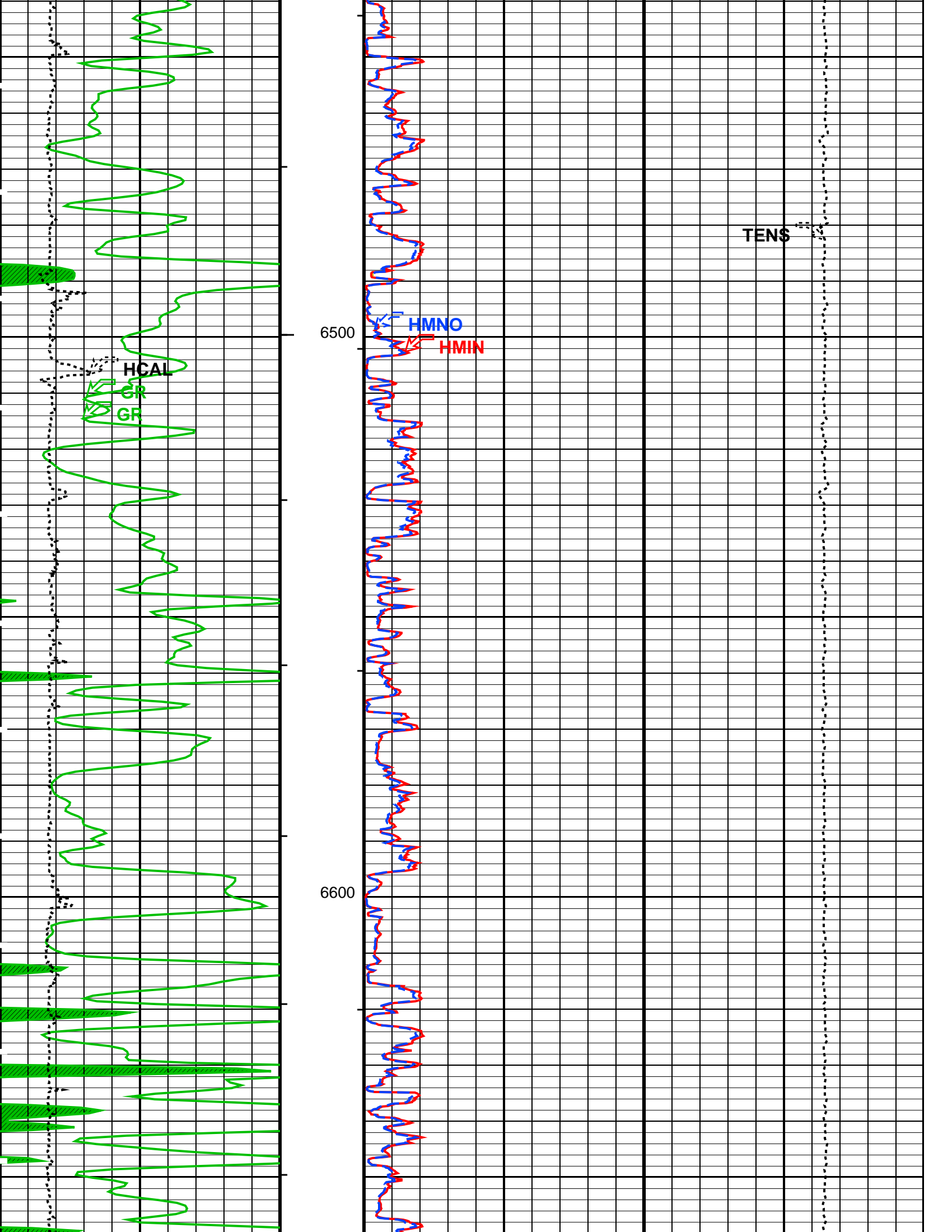


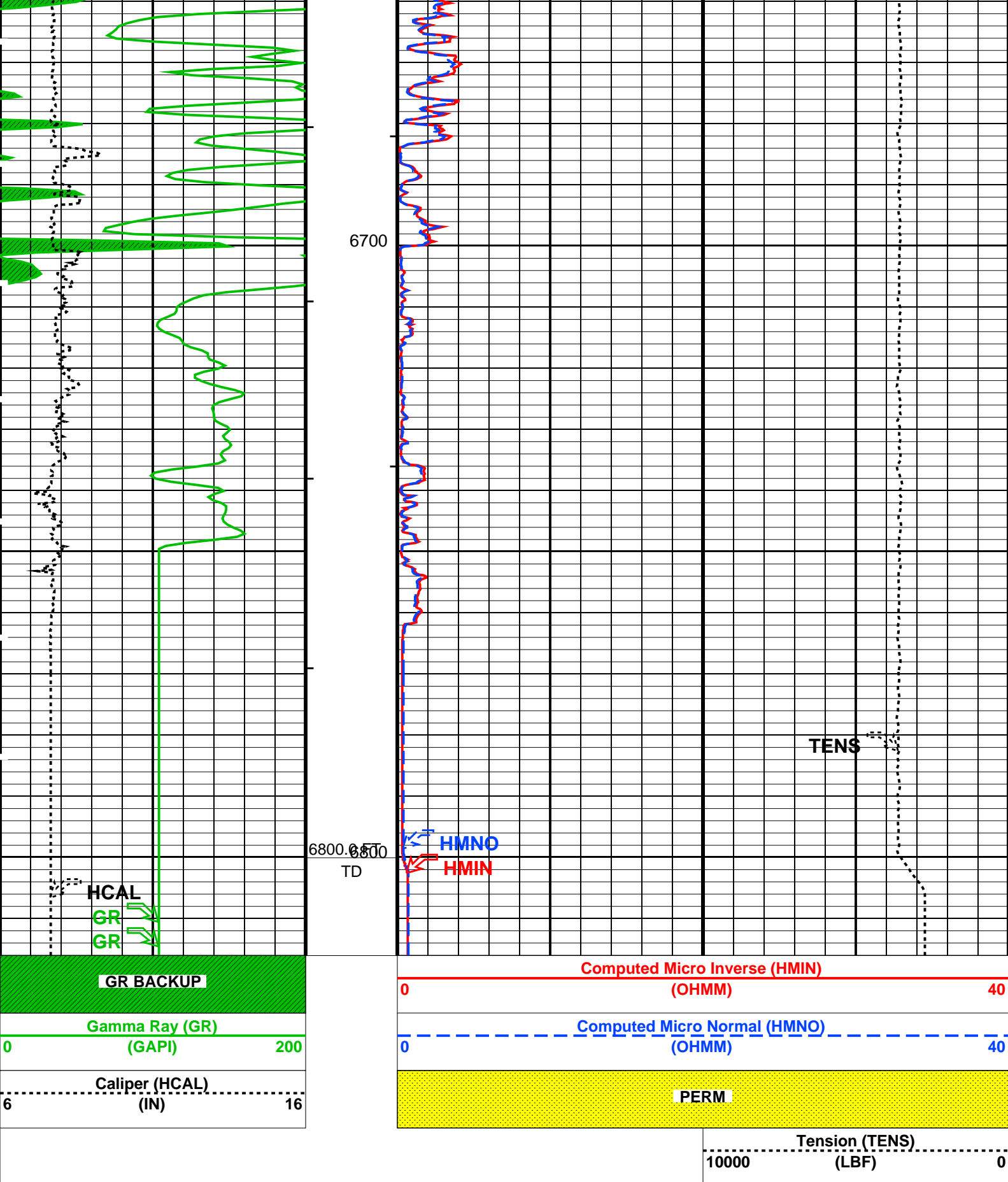












PIP SUMMARY

- └ 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	5.5	IN
HVCS	Future Casing (Outer) Diameter	AUTOMATIC	
	Integrated Hole Volume Caliper Selection		
BS	System and Miscellaneous	7.875	IN
DO	Bit Size	0.0	FT
PP	Depth Offset for Playback	RECOMPUTE	
TD	Playback Processing	6800	FT
	Total Depth		


Format: MLT

Vertical Scale: 5" per 100'

Graphics File Created: 05-Aug-2013 19:41

OP System Version: 19C2-270			
HAIT-H	19C2-270	DSLT-FTB	19C2-270
HILTH-FTB	19C2-270	CMRT-B	19C2-270
DTC-H	19C2-270		

Input DLIS Files						
DEFAULT	Splice_AIT_SONIC_032CUP	FN:1	PRODUCER	05-Aug-2013 19:39	6816.0 FT	99.5 FT
Output DLIS Files						
DEFAULT	AIT_SONIC_TLD_MCFL_033PUP	FN:31	PRODUCER	05-Aug-2013 19:41		




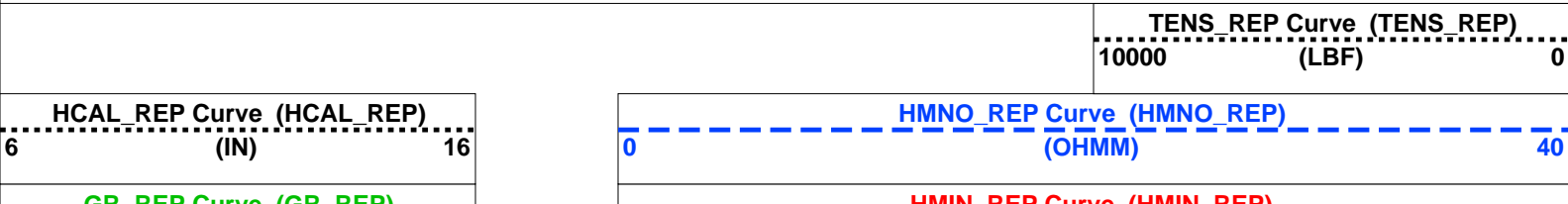
REPEAT ANALYSIS

MAXIS Field Log

Input DLIS Files						
DEFAULT	AIT_SONIC_TLD_MCFL_014PUP	FN:13	PRODUCER	05-Aug-2013 10:06	6816.0 FT	6508.0 FT
Output DLIS Files						
DEFAULT	AIT_SONIC_TLD_MCFL_015LUP	FN:14	PRODUCER	05-Aug-2013 10:10		

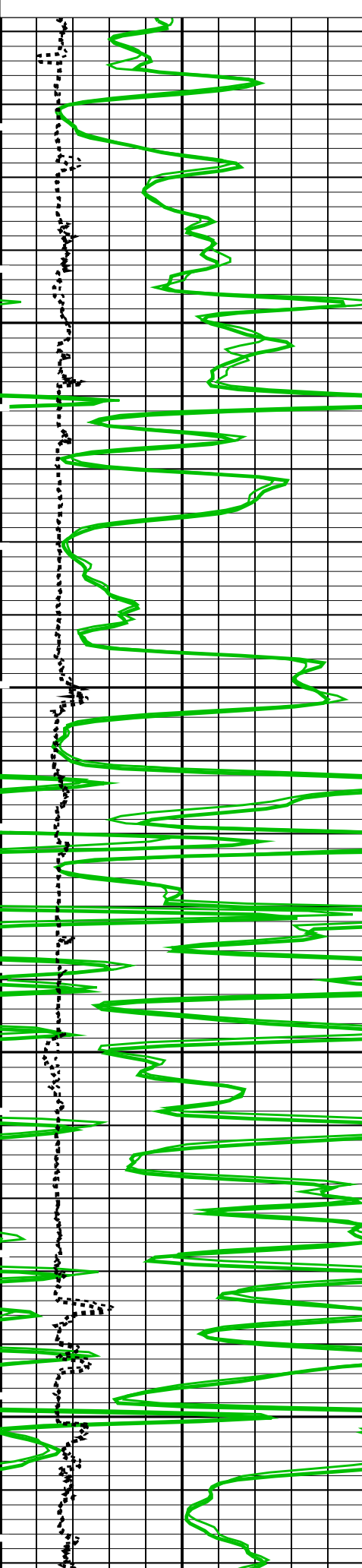
OP System Version: 19C2-270			
HAIT-H	19C2-270	DSLT-FTB	19C2-270
HILTH-FTB	19C2-270	CMRT-B	19C2-270
DTC-H	19C2-270		

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



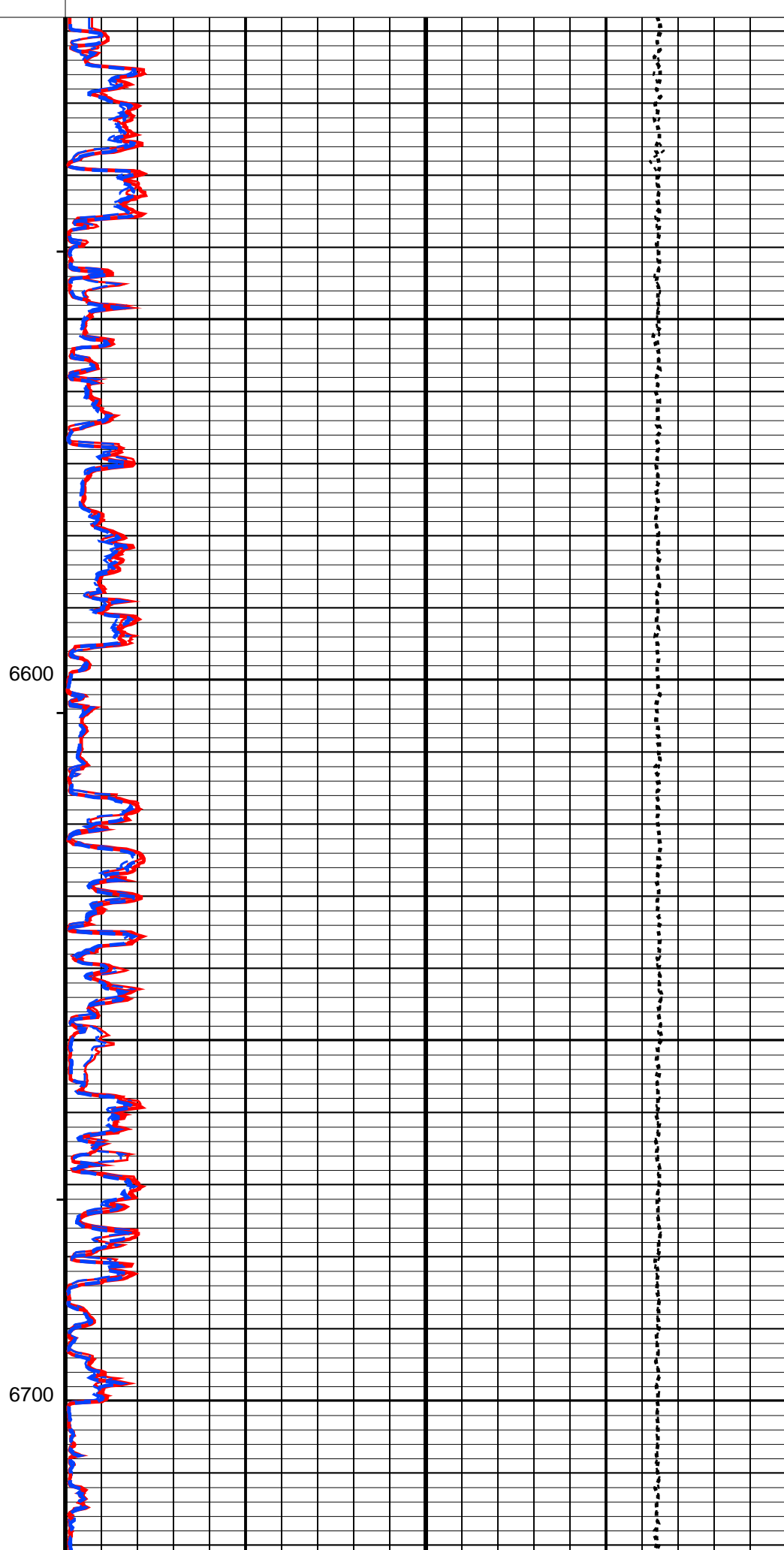
GR_REF Curve (GR_REF)
(GAPI)

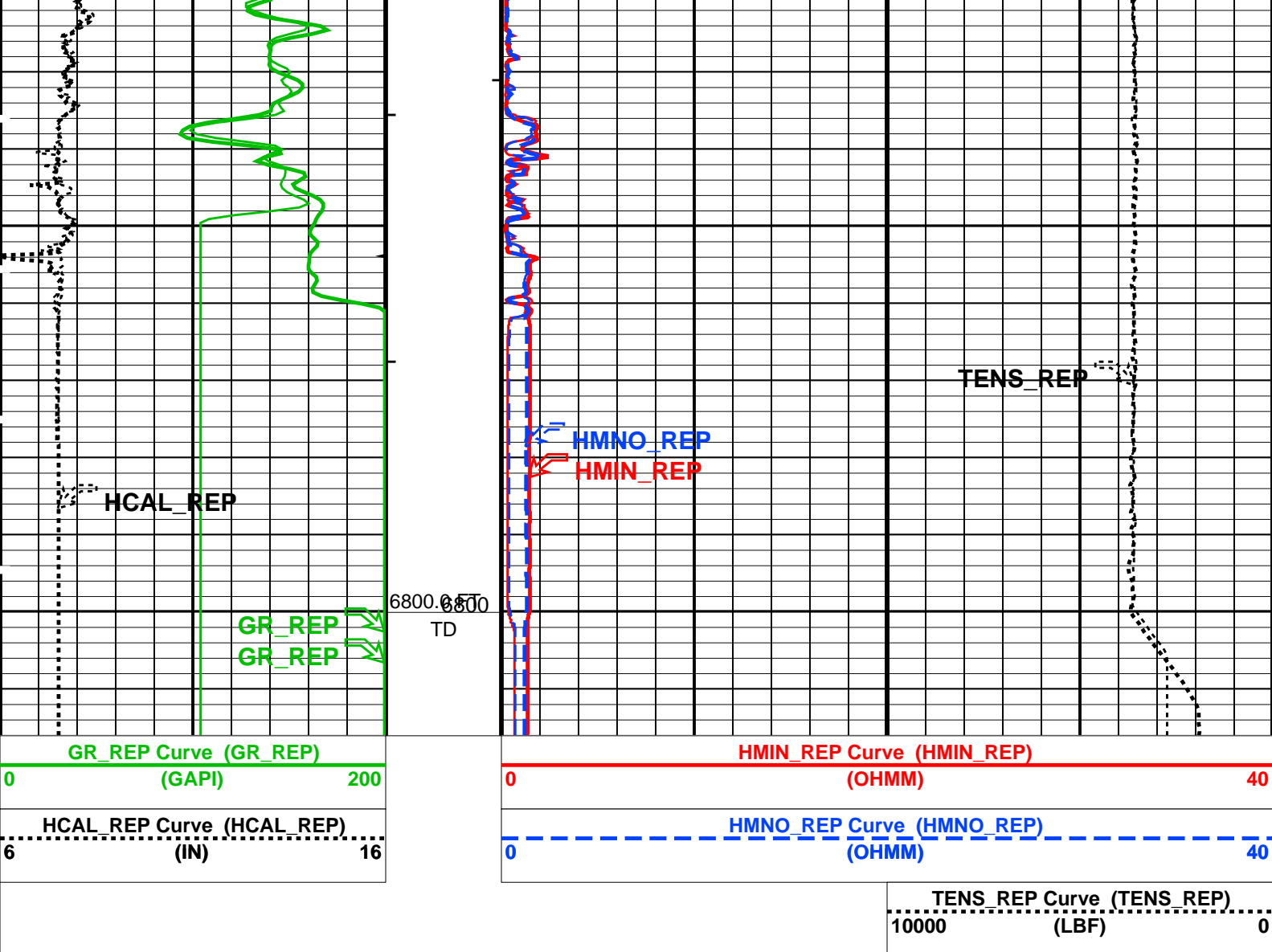
0 200



HMIN_REF Curve (HMIN_REF)
(OHMM)

0 40





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 Future Casing (Outer) Diameter	5.5	IN
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
BS	System and Miscellaneous Bit Size	7.875	IN
DORL	Depth Offset for Repeat Analysis	0.0	FT
TD	Total Depth	6800	FT

Format: MLT_REP Vertical Scale: 5" per 100'

Graphics File Created: 05-Aug-2013 10:10

OP System Version: 19C2-270

HAIT-H	19C2-270	DSLT-FTB	19C2-270
HILTH-FTB	19C2-270	CMRT-B	19C2-270
DTC-H	19C2-270		

Input DLIS Files

DEFAULT	AIT_SONIC_TLD_MCFL_014PUP	FN:13	PRODUCER	05-Aug-2013 10:06	6816.0 FT	6508.0 FT
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Output DLIS Files

DEFAULT

AIT_SONIC_TLD_MCFL_015LUP

FN:14

PRODUCER

05-Aug-2013 10:10

Schlumberger

BEFORE CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Array Induction Tool – H Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase							
Master: 24-Jun-2013 13:36 Before: 3-Aug-2013 18:59							
Thru Cal Magnitude – 0	0	0.6284	0.6288	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.289	1.289	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6392	0.6391	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.7217	0.7219	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.359	1.358	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.969	1.970	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.968	1.970	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.402	1.407	N/A	N/A	N/A	V
Phase – 0	0	51.01	51.84	N/A	N/A	N/A	DEG
Phase – 1	0	49.97	50.81	N/A	N/A	N/A	DEG
Phase – 2	0	46.16	47.03	N/A	N/A	N/A	DEG
Phase – 3	0	45.37	46.24	N/A	N/A	N/A	DEG
Phase – 4	0	38.91	39.85	N/A	N/A	N/A	DEG
Phase – 5	0	36.97	37.93	N/A	N/A	N/A	DEG
Phase – 6	0	36.96	37.92	N/A	N/A	N/A	DEG
Phase – 7	0	32.69	33.98	N/A	N/A	N/A	DEG
Array Induction Tool – H Wellsite Calibration – Electronics Calibration Check – Auxilliary							
Master: 24-Jun-2013 13:36 Before: 3-Aug-2013 18:59							
Array Induction SPA Plus	990.5	991.9	993.0	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	0.04840	-0.03146	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9150	0.9202	0.9212	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	0.00005566	-0.00002783	N/A	N/A	N/A	V
Array Induction Tool – H Wellsite Calibration – Test Loop Gain Correction							
Master: 24-Jun-2013 13:36							
Test Loop Gain Magnitude – 0	0	1.010	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 1	0	1.011	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 2	0	1.012	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 3	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 4	0	0.9963	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 5	0	0.9871	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 6	0	0.9876	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 7	0	1.000	N/A	N/A	N/A	N/A	V
Phase – 0	0	0.4079	N/A	N/A	N/A	N/A	DEG
Phase – 1	0	0.4401	N/A	N/A	N/A	N/A	DEG
Phase – 2	0	-0.1075	N/A	N/A	N/A	N/A	DEG
Phase – 3	0	-0.04307	N/A	N/A	N/A	N/A	DEG
Phase – 4	0	-0.1595	N/A	N/A	N/A	N/A	DEG
Phase – 5	0	-0.3086	N/A	N/A	N/A	N/A	DEG
Phase – 6	0	1.269	N/A	N/A	N/A	N/A	DEG
Phase – 7	0	-0.2832	N/A	N/A	N/A	N/A	DEG
Array Induction Tool – H Wellsite Calibration – Sonde Error Correction							
Master: 24-Jun-2013 13:36							
R Sonde Error Correction – 0	0	-89.27	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	164.9	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	113.6	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	59.90	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	26.21	N/A	N/A	N/A	N/A	MM/M

NCT-B Water Temperature	120.0	DEGE
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NSR-B Water Temperature 120.0 DEGP.
 Thermal Housing Size 3.373 IN.
 NSR-F serial number 2554

Array Induction Tool – H / Equipment Identification

Primary Equipment:
 Rm/SP Bottom Nose
 Array Induction Sonde

AHRM – A
 AHIS – BA

216

Auxiliary Equipment:

Array Induction Tool – H Wellsite Calibration							
Electronics Calibration Check – Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.6284		0.6050	51.01		71.00
	Before	0.6288			51.84		
1	Master	1.289		1.270	49.97		70.00
	Before	1.289			50.81		
2	Master	0.6392		0.6230	46.16		66.00
	Before	0.6391			47.03		
3	Master	0.7217		0.7040	45.37		65.00
	Before	0.7219			46.24		
4	Master	1.359		1.337	38.91		59.00
	Before	1.358			39.85		
5	Master	1.969		1.955	36.97		57.00
	Before	1.970			37.93		
6	Master	1.968		1.955	36.96		57.00
	Before	1.970			37.92		
7	Master	1.402		1.415	32.69		53.00
	Before	1.407			33.98		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)

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Array Induction Tool – H Wellsite Calibration							
Electronics Calibration Check – Auxilliary							
Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master			991.9	Master			0.04840
Before			993.0	Before			-0.03146
	941.0 (Minimum)	990.5 (Nominal)	1040 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
Phase	Array Induction Temperature Plus V		Value	Phase	Array Induction Temperature Zero V		Value
Master			0.9202	Master			5.566E-00
Before			0.9212	Before			-2.783E-00
	0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)		-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Master: 24-Jun-2013 13:36				Before: 3-Aug-2013 18:59			

Master: 24-Jun-2013 13:36

Before: 3-Aug-2013 18:59

Array Induction Tool – H Wellsite Calibration						
Test Loop Gain Correction						
Idx	Value	Test Loop Gain Magnitude V			Value	Phase DEG
0	1.010				0.4079	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.011				0.4101	

	1.011	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.012				-0.1075		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.014				-0.04307		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	0.9963				-0.1595		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	0.9871				-0.3086		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	0.9876				1.269		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.000				-0.2832		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

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Array Induction Tool – H Wellsite Calibration							
Sonde Error Correction							
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M	
0	-89.27				-129.9		
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal) 2250 (Maximum)
1	164.9				-37.62		
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal) 625.0 (Maximum)
2	113.6				-149.2		
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal) 350.0 (Maximum)
3	59.90				-28.97		
		39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)		-250.0 (Minimum)	0 (Nominal) 250.0 (Maximum)
4	26.21				-16.68		
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal) 63.00 (Maximum)
5	13.27				-17.94		
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal) 50.00 (Maximum)
6	10.28				0.1348		
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal) 30.00 (Maximum)
7	-0.3196				2.617		
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal) 30.00 (Maximum)
Master: 24-Jun-2013 13:36							

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Array Induction Tool – H Wellsite Calibration							
Mud Gain Correction							
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag	
0	0.8608	<div><div></div></div>			0.8623	<div><div></div></div>	
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)
1	0.8608	<div><div></div></div>			0.8623	<div><div></div></div>	
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)
2	0.8608	<div><div></div></div>			0.8623	<div><div></div></div>	
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal) 1.200 (Maximum)

Master: 24–Jun–2013 13:36

Master: 24-Jun-2013 13:36

Digitizing Sonic Logging Tool / Equipment Identification

Primary Equipment:

BHC Sonde
Digitizing Sonic Logging Cartridge

SLS – W
DSLCL – B

Auxiliary Equipment:

Electronics Cartridge Housing

ECH – KH

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

5471







Auxiliary Equipment:

Neutron Calibration Tank
Gamma Source Radioactive
HGNS Housing

NCT – B
GSR – U/Y
HGNH –

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		0.7409	Before		0.4918	Before		0.2993
	0.7028 (Minimum)	0.7398 (Nominal)	0.7767 (Maximum)		0.4677 (Minimum)	0.4923 (Nominal)	0.5169 (Maximum)	
Phase	BS Window Sum CPS	Value	Phase	SS Window Sum CPS	Value	Phase	LS Window Sum CPS	Value
Before		24050	Before		13850	Before		1243
	23150 (Minimum)	24360 (Nominal)	25580 (Maximum)		13180 (Minimum)	13870 (Nominal)	14560 (Maximum)	
	1184 (Minimum)	1246 (Nominal)	1309 (Maximum)					

Before: 3–Aug–2013 19:01

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		1682	Before		1719	Before		1331
	1565 (Minimum)	1665 (Nominal)	1765 (Maximum)		1610 (Minimum)	1710 (Nominal)	1810 (Maximum)	
	1228 (Minimum)	1328 (Nominal)	1428 (Maximum)					

Before: 3–Aug–2013 19:01

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		11.59	Before		10.16	Before		8.246
	10.49 (Minimum)	11.49 (Nominal)	12.49 (Maximum)		9.153 (Minimum)	10.15 (Nominal)	11.15 (Maximum)	
	7.223 (Minimum)	8.223 (Nominal)	9.223 (Maximum)					

Before: 3–Aug–2013 19:01

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		3914	Before		3855	Before		3873
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	
	3524 (Minimum)	3830 (Nominal)	4136 (Maximum)					



Before: 3–Aug–2013 19:02





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		7.878	Before		12.17

6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)	9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 3-Aug-2013 18:57					

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Detector Calibration							
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkgd) GAPI		Value
Before			83.98	Before			173.4
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		157.1 (Minimum)	165.0 (Nominal)	206.3 (Maximum)
Before: 3-Aug-2013 18:57							

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Zero Measurement							
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value
Master			27.37	Master			27.33
Before			26.96	Before			29.29
	5.000 (Minimum)	27.37 (Nominal)	40.00 (Maximum)		5.000 (Minimum)	27.33 (Nominal)	40.00 (Maximum)
Master: 17-May-2013 14:28				Before: 3-Aug-2013 18:58			

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				5686	Master				2326	Master				2.445
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)			
Master: 17-May-2013 14:28														

High resolution Integrated Logging Tool-DTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z-Axis Acceleration F/S2	Value	
Before		32.10	
	31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)
Before: 5-Aug-2013 7:45			

Combinable Magnetic Resonance Tool - B / Equipment Identification			
Primary Equipment:			
CMR Cartridge	CMRC - B	283	
CMR-B Sonde	CMRS - BA	265	
Auxiliary Equipment:			
CMR Housing	CMRH - AA		

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: Omimex Petroleum Inc

Schlumberger

Well: Vega 4–29–1–49

Field: Wildcat

County: Washington

State: Colorado

Platform Express
Micro Log