

Company: POCO Operating LLC

Well: Brighton Lakes #20-17-1C D H

Field: Wattenberg

County: Adams State: Colorado

Platform Express
Array Induction
MD

County: Adams
Field: Wattenberg
Location: SESW Sec. 20 T01S R66W
Well: Brighton Lakes #20-17-1C D H
Company: POCO Operating LLC

Location:		SESW Sec. 20 T01S R66W	Elev.:	K.B.	5071.00 ft
		Lat: 39.94442 / Long: -104.80214		G.L.	5048.00 ft
				D.F.	5070.00 ft
Permanent Datum:	Ground Level		Elev.:	5048.00 f	
Log Measured From:	Kelly Bushing		23.00 ft	above Perm.Datum	
Drilling Measured From:	Kelly Bushing				
API Serial No.	Section:	20	Township:	01S	Range:
05-001-10127					66W

Logging Date 24-Nov-2020

Run Number 1A

Depth Driller 17960.00 ft

Schlumberger Depth 17960.00 ft

Bottom Log Interval 7818.00 ft

Top Log Interval 1884.00 ft

Casing Fluid Type Oil

Salinity

Density 10 lbm/gal

Fluid Level 8.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.50 in

From 1877.00 ft

To 17960.00 ft

Casing/Tubing Size 9.625 in

Weight 36 lbm/ft

Grade N/A

From 0.00 ft

To 1884.00 ft

Max Recorded Temperatures 209 degF

Logger on Bottom 24-Nov-2020 14:00:00

Unit Number 9102 Location: Fort Morgan

Recorded By S. Leshkar

Witnessed By Stacey Wimmer

Disclaimer

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 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.

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10. 1A Induction Repeat Analysis

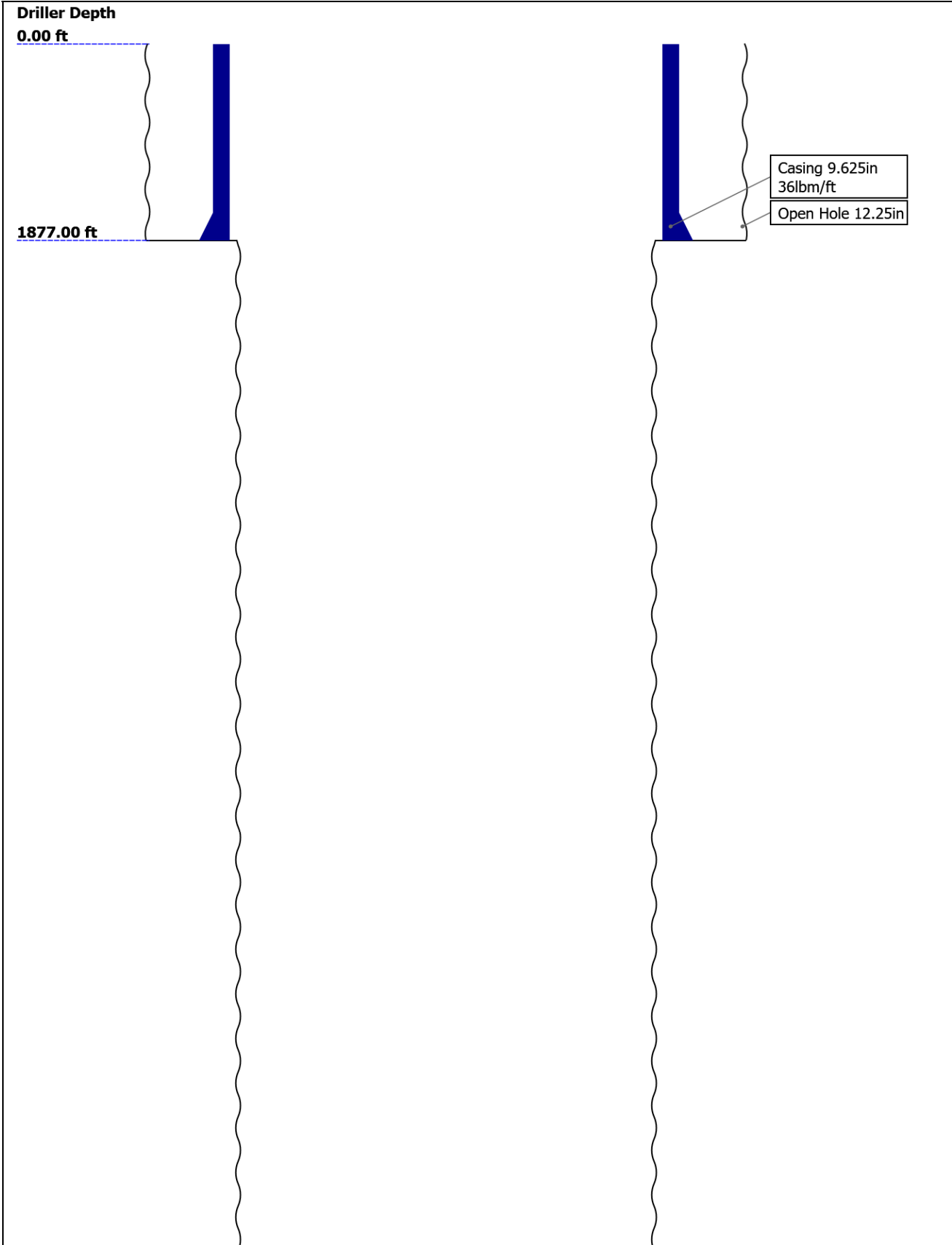
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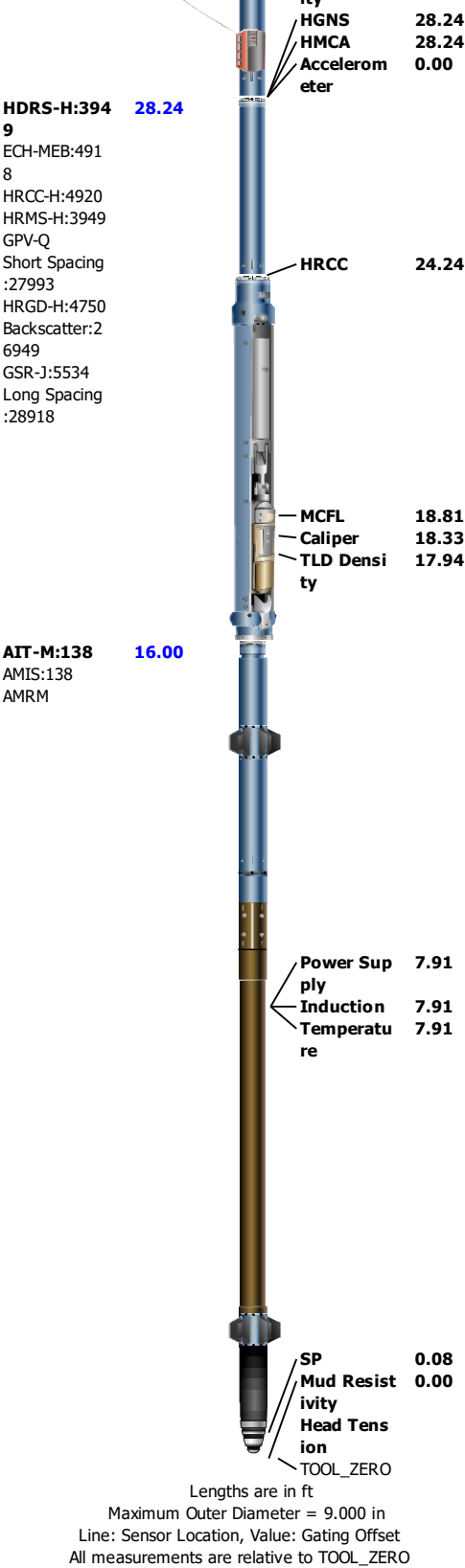
10.2 Log (Induction-5 RA)

11. Calibration Report

12. Tail

Well Sketch





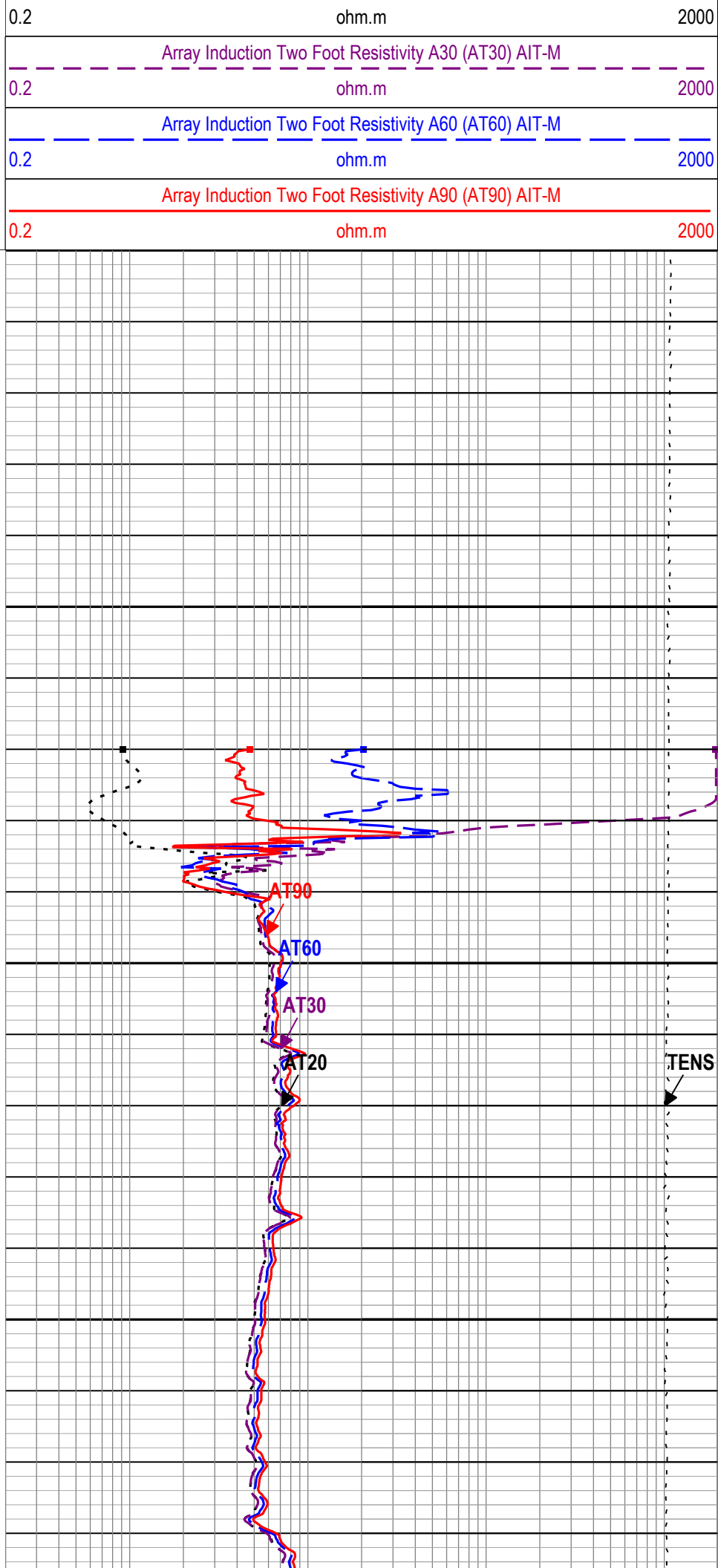
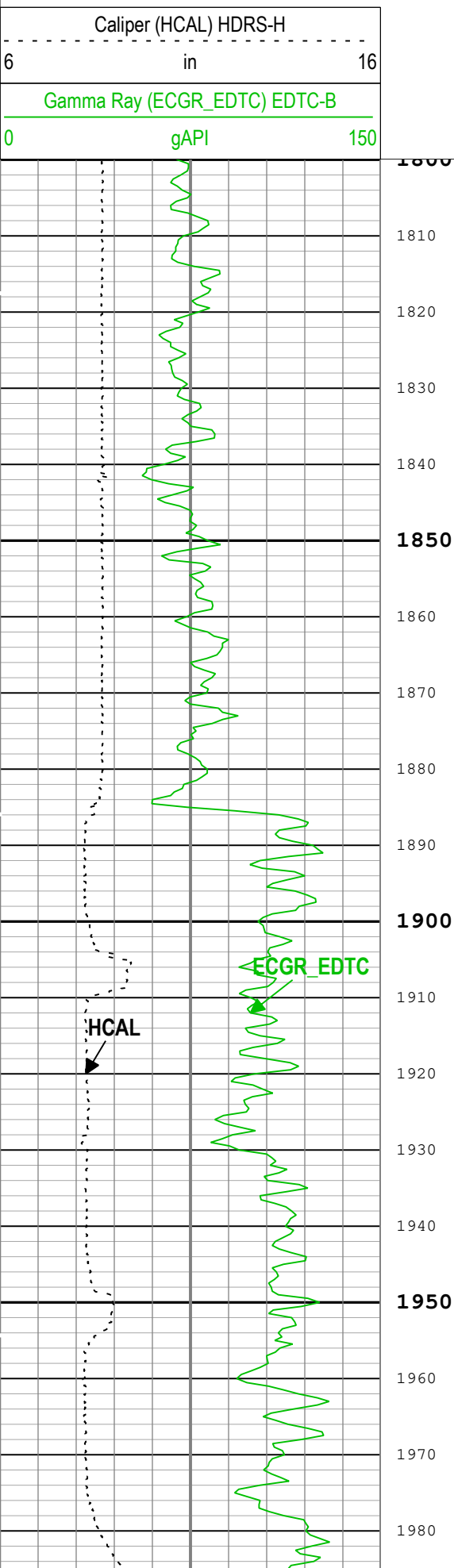
Depth Summary

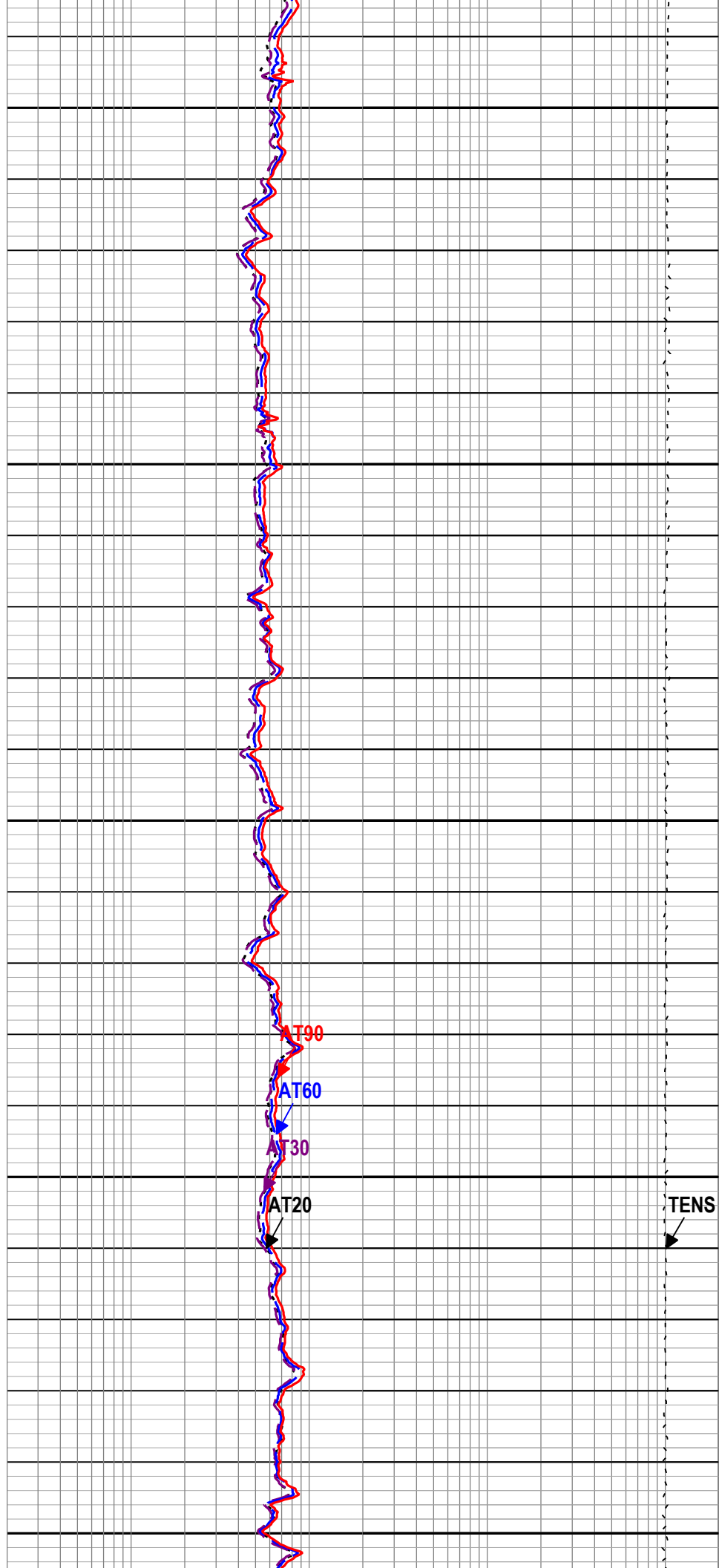
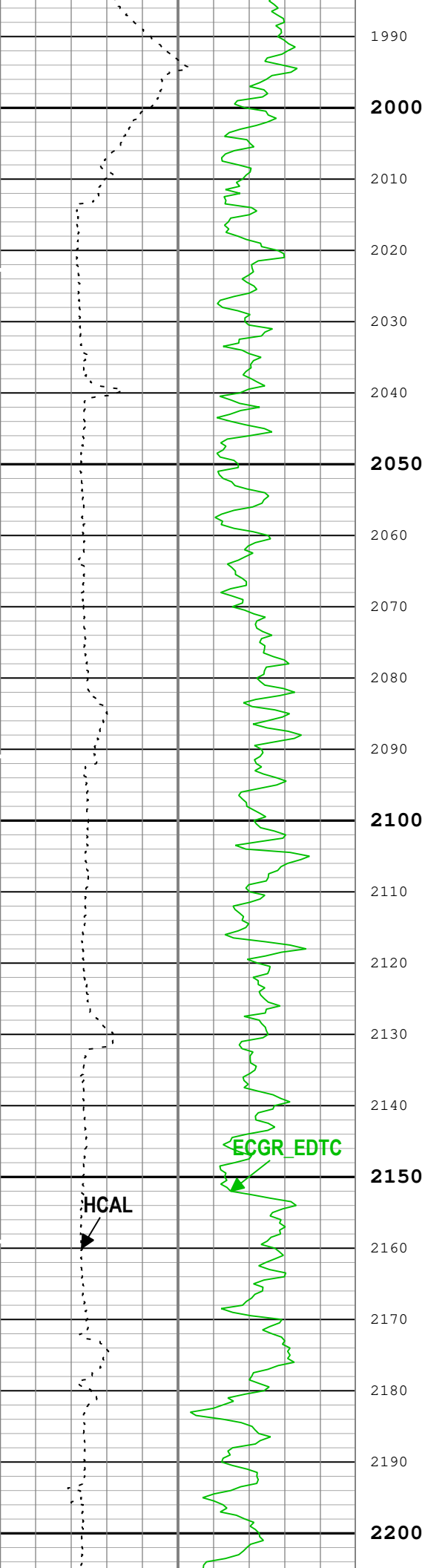
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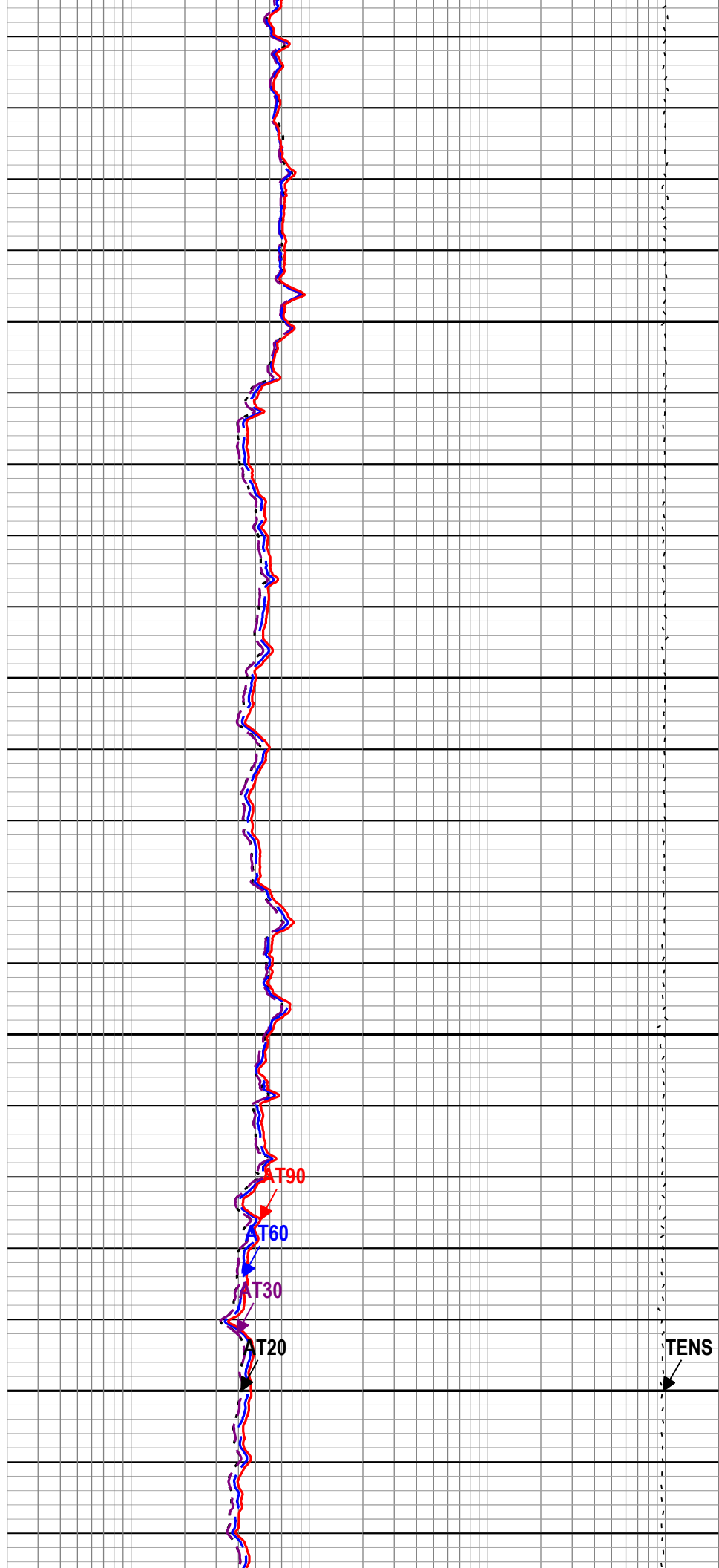
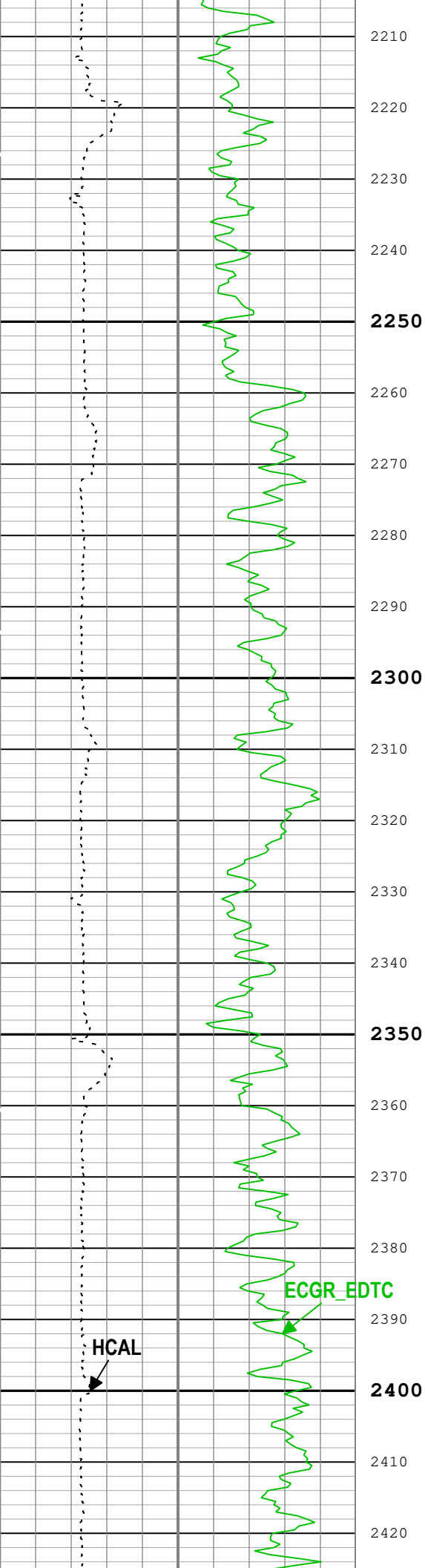
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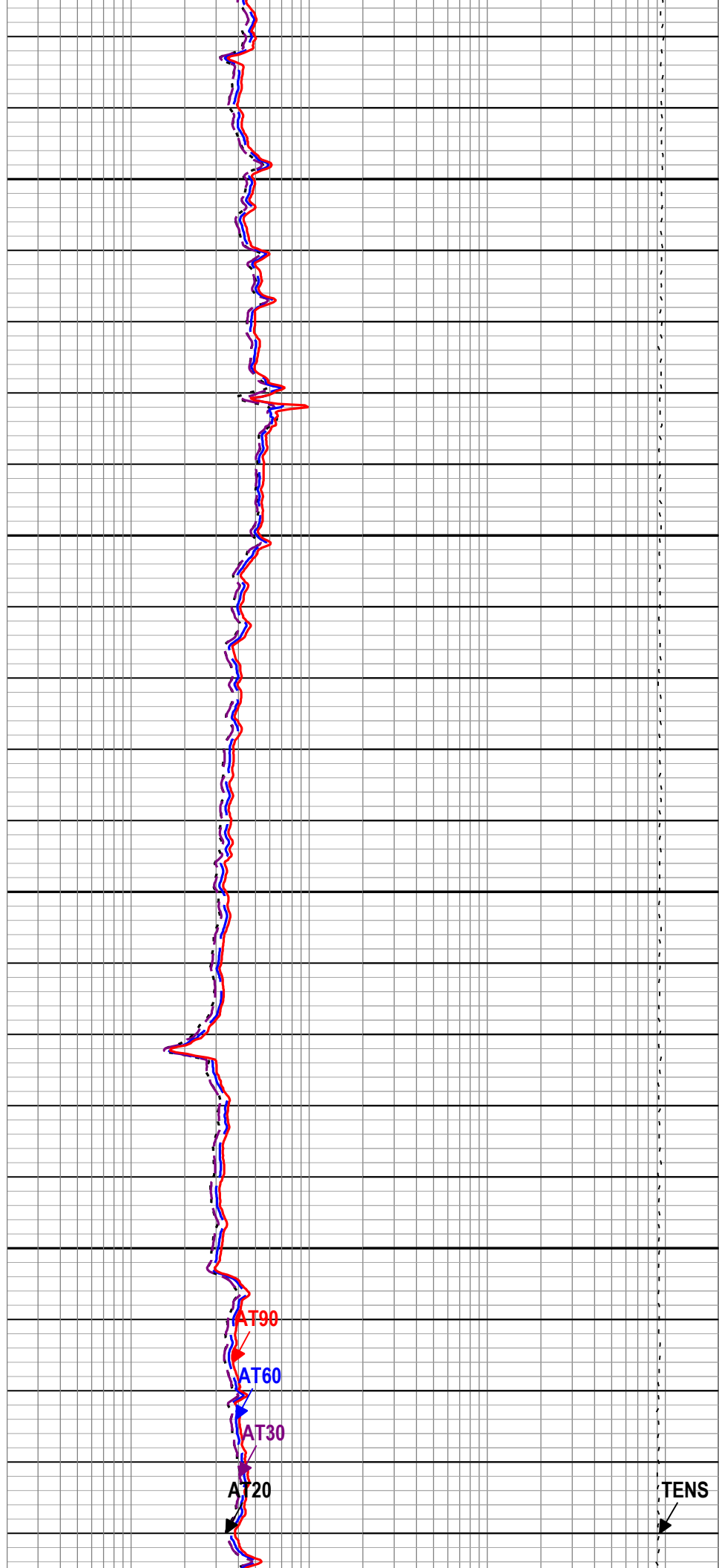
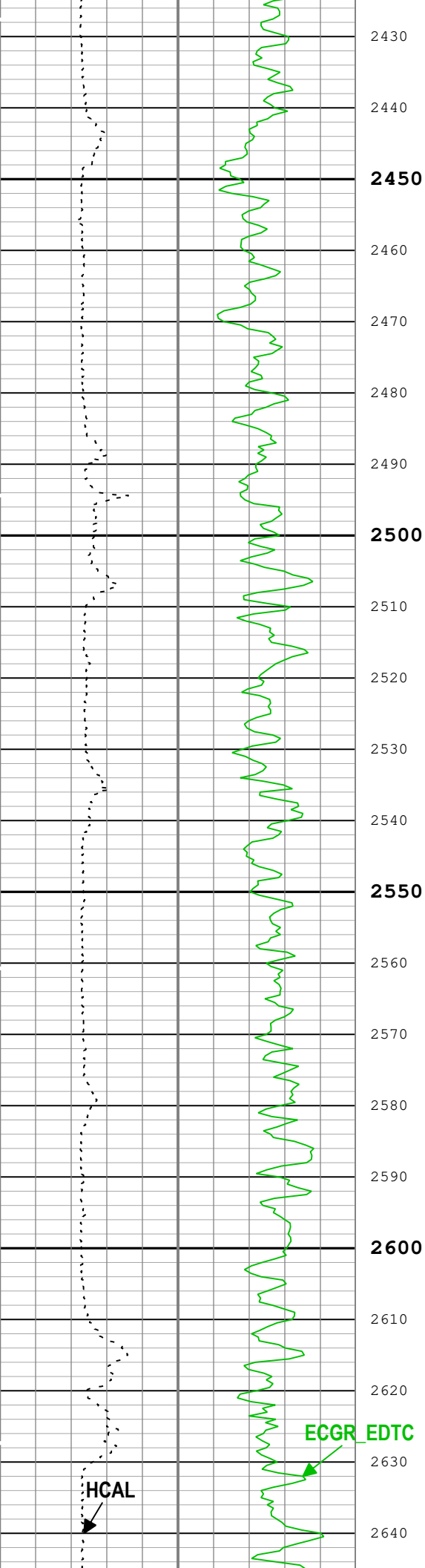
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Serial Number	6433
Calibration Date	16-Mar-2020
Calibrator Serial Number	57
Calibration Cable Type	7-46 AXS
Wheel Correction 1	-3
Wheel Correction 2	4

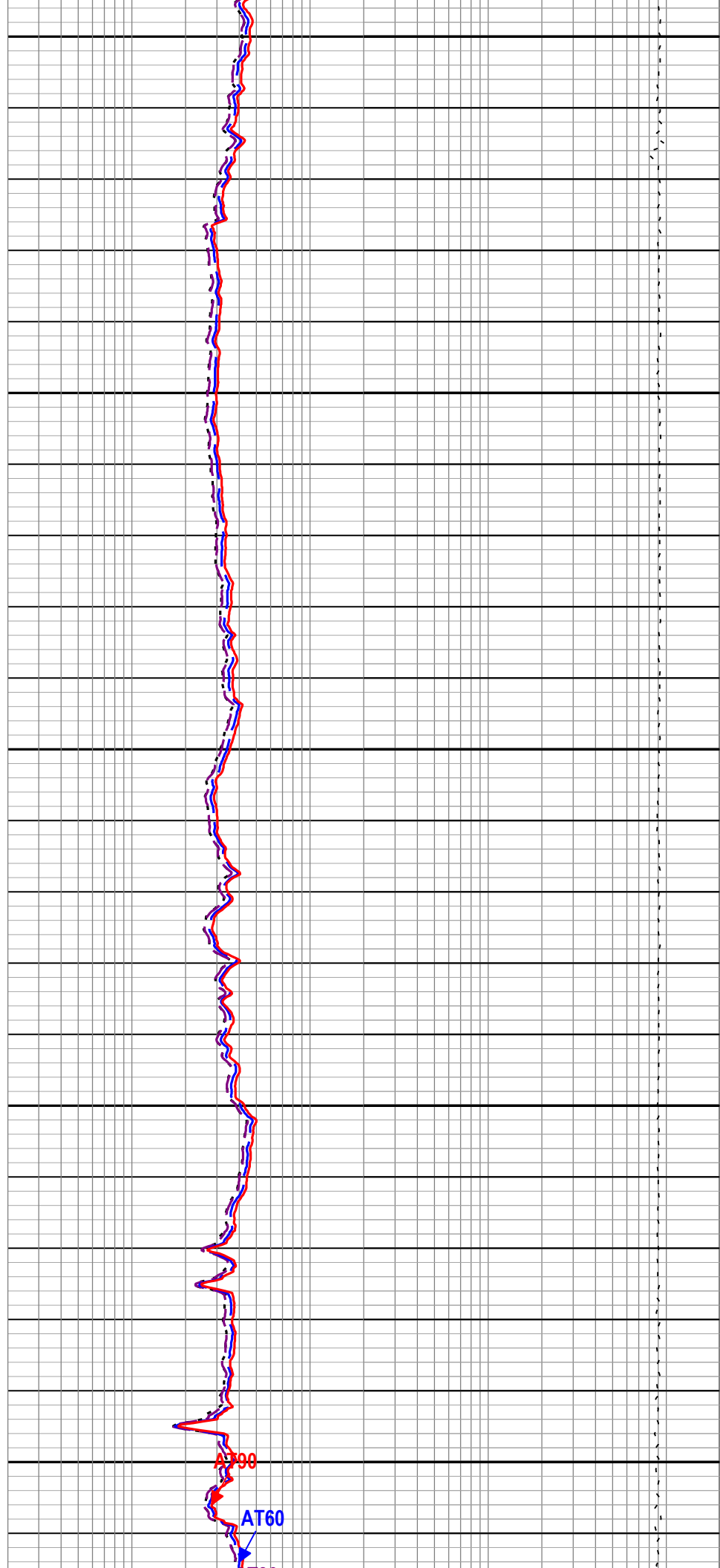
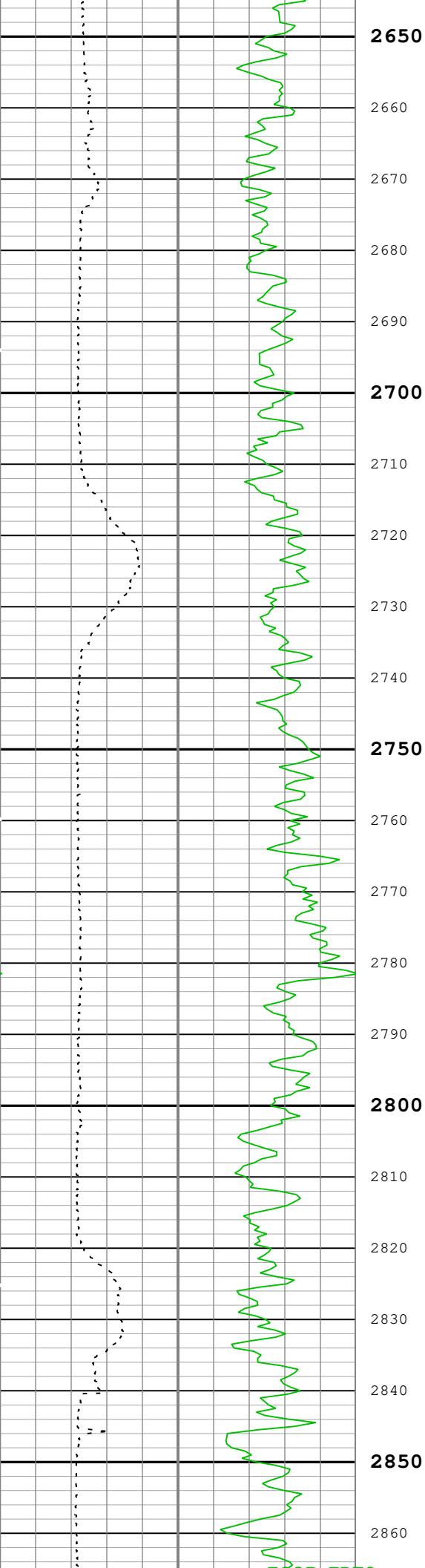
Array Induction Two Foot Resistivity A20 (AT20) AIT-M

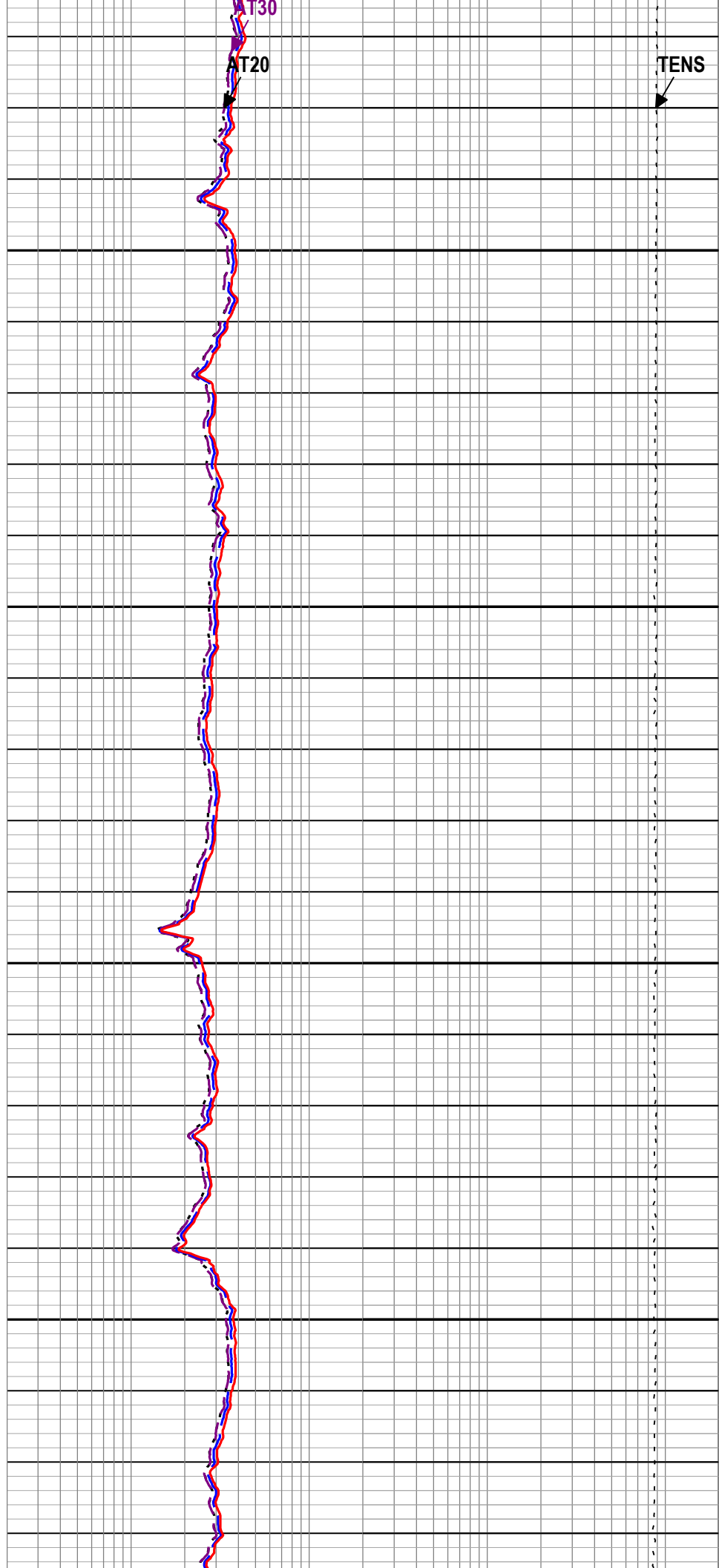
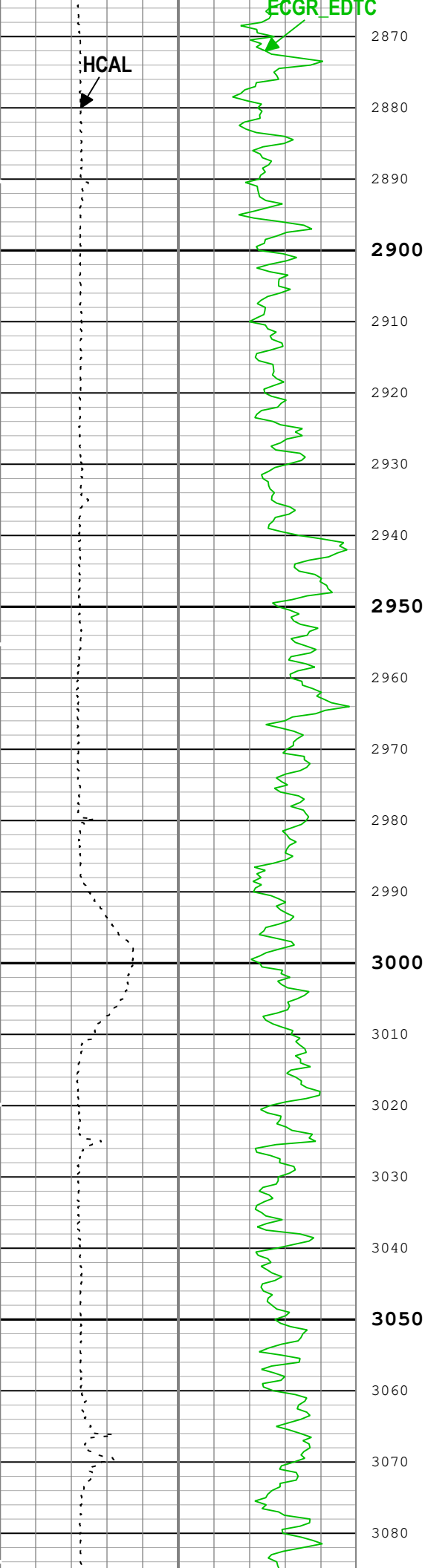


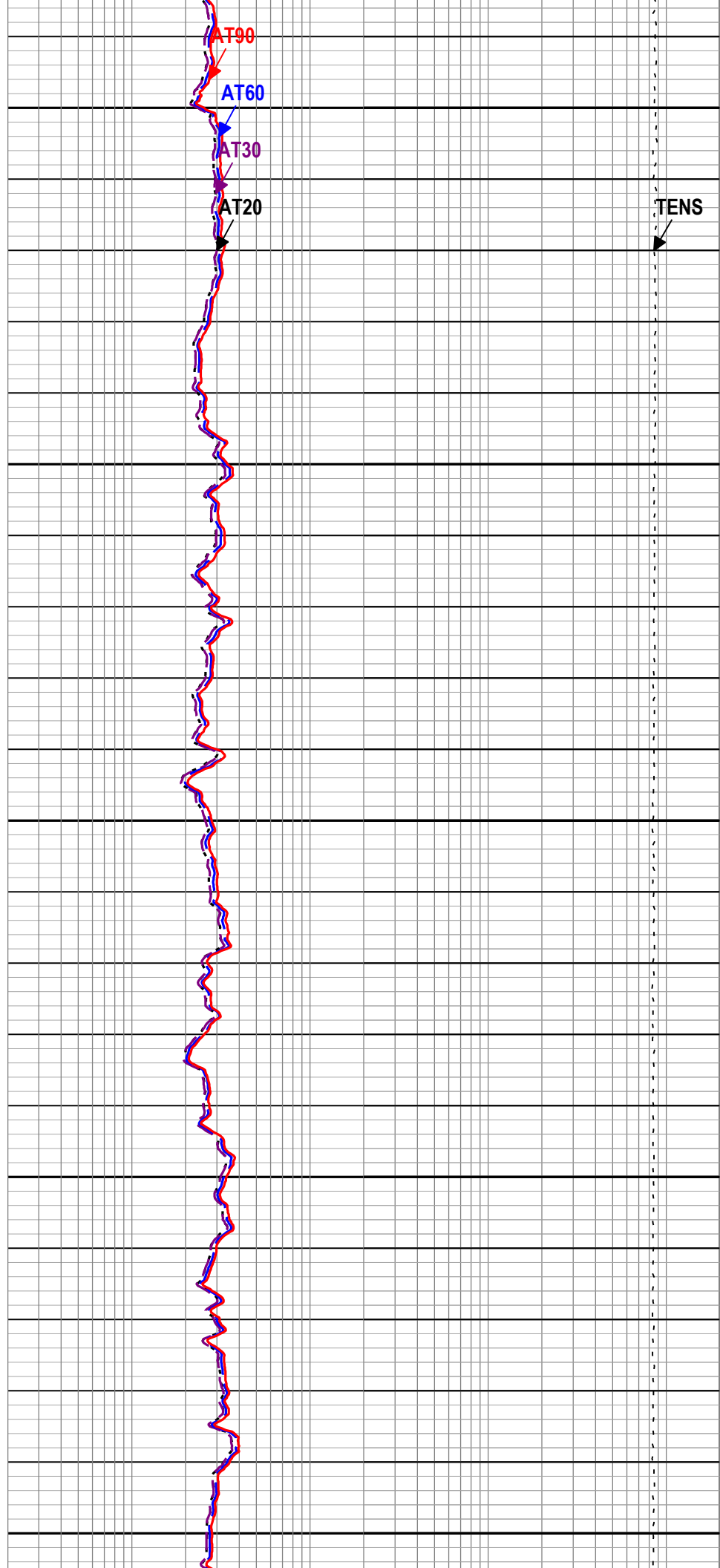
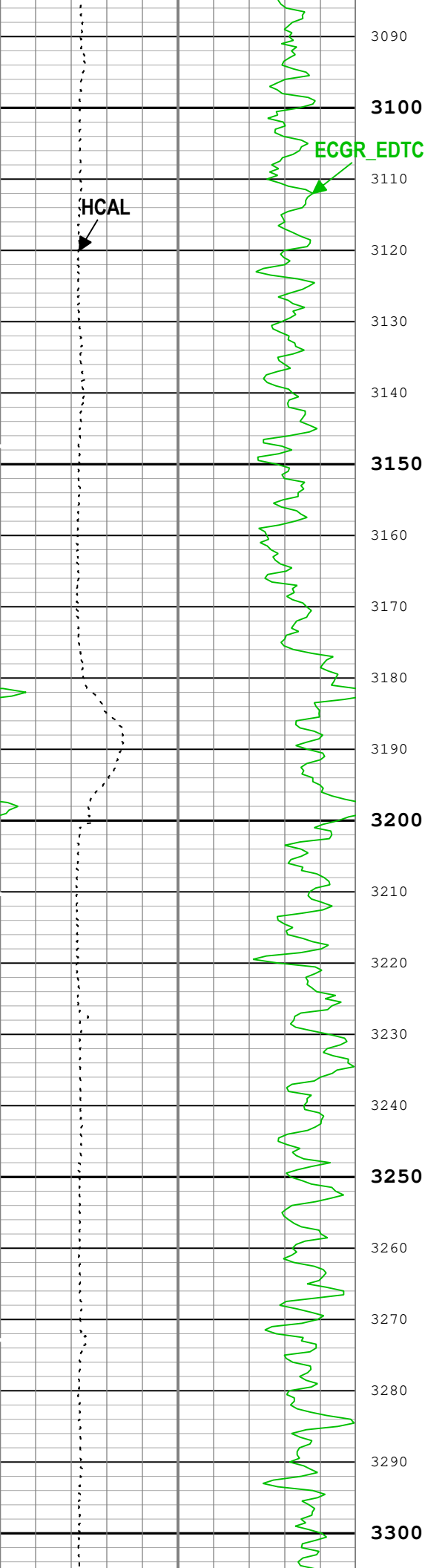


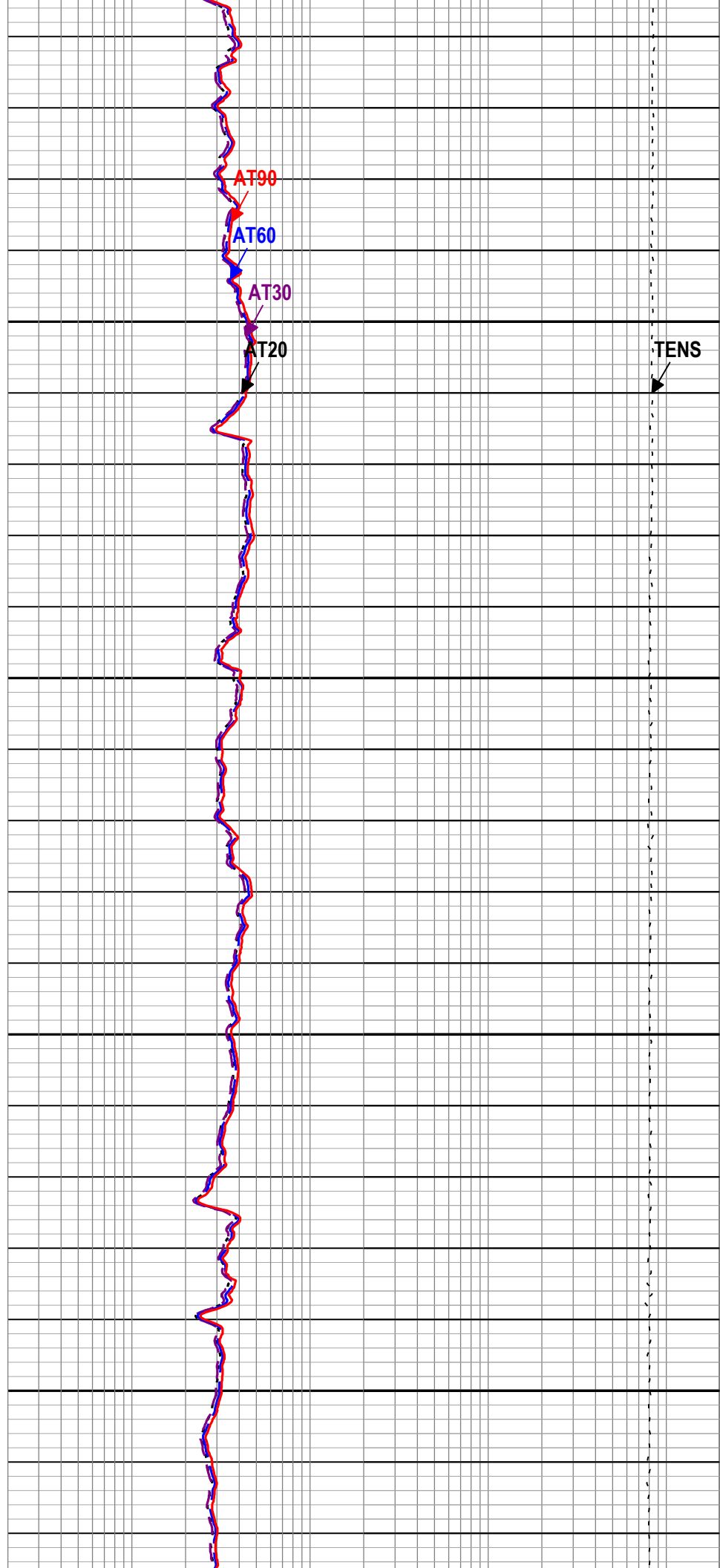
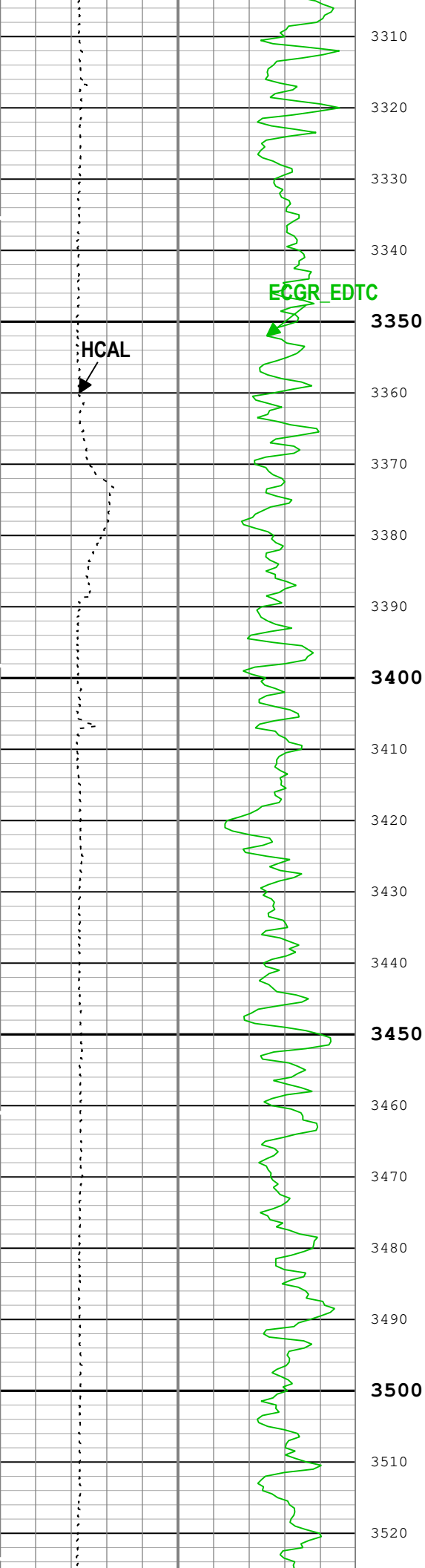


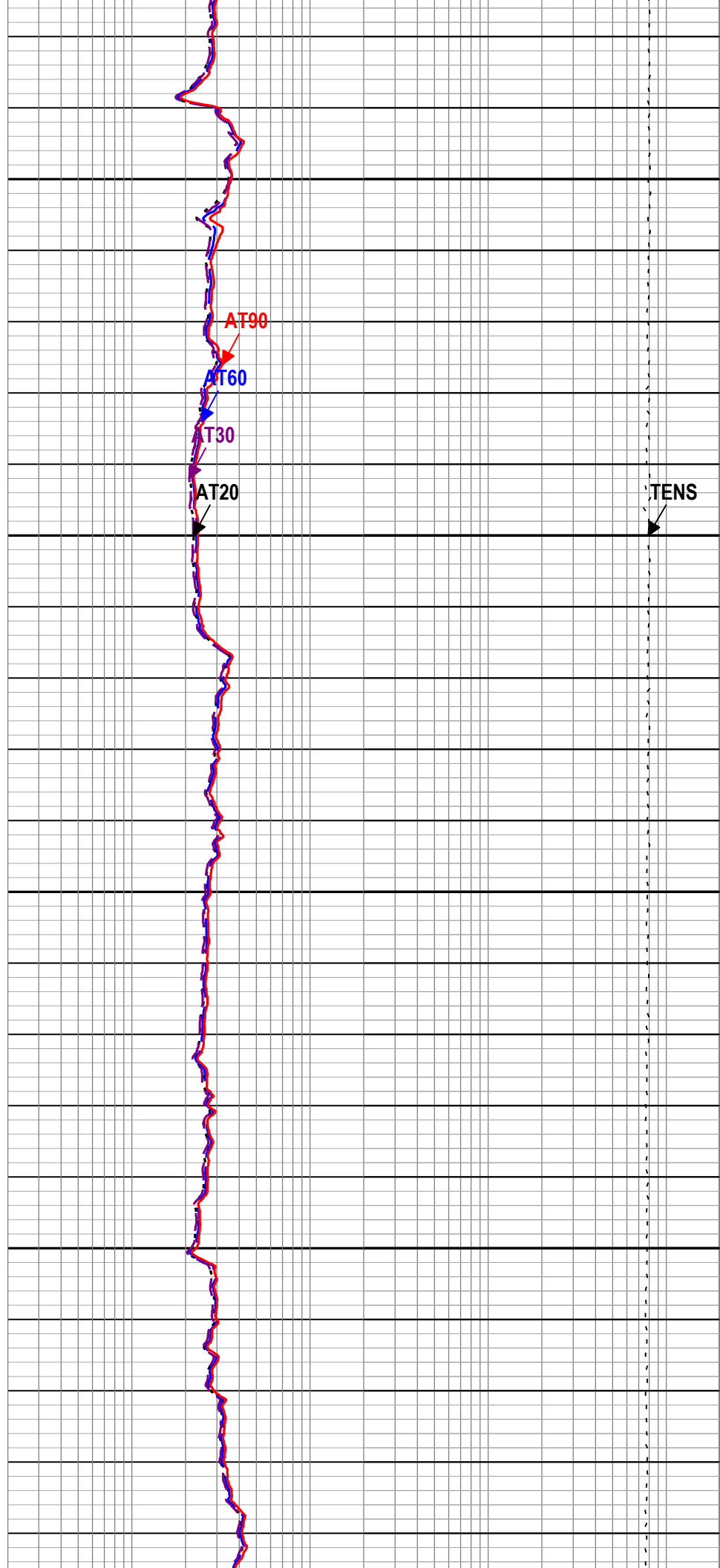
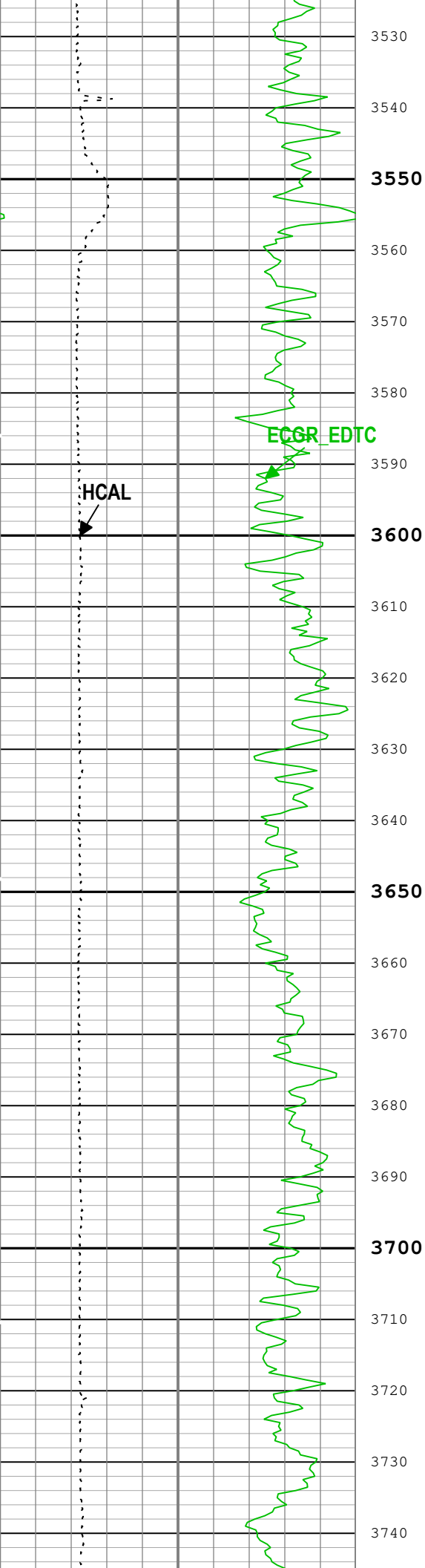


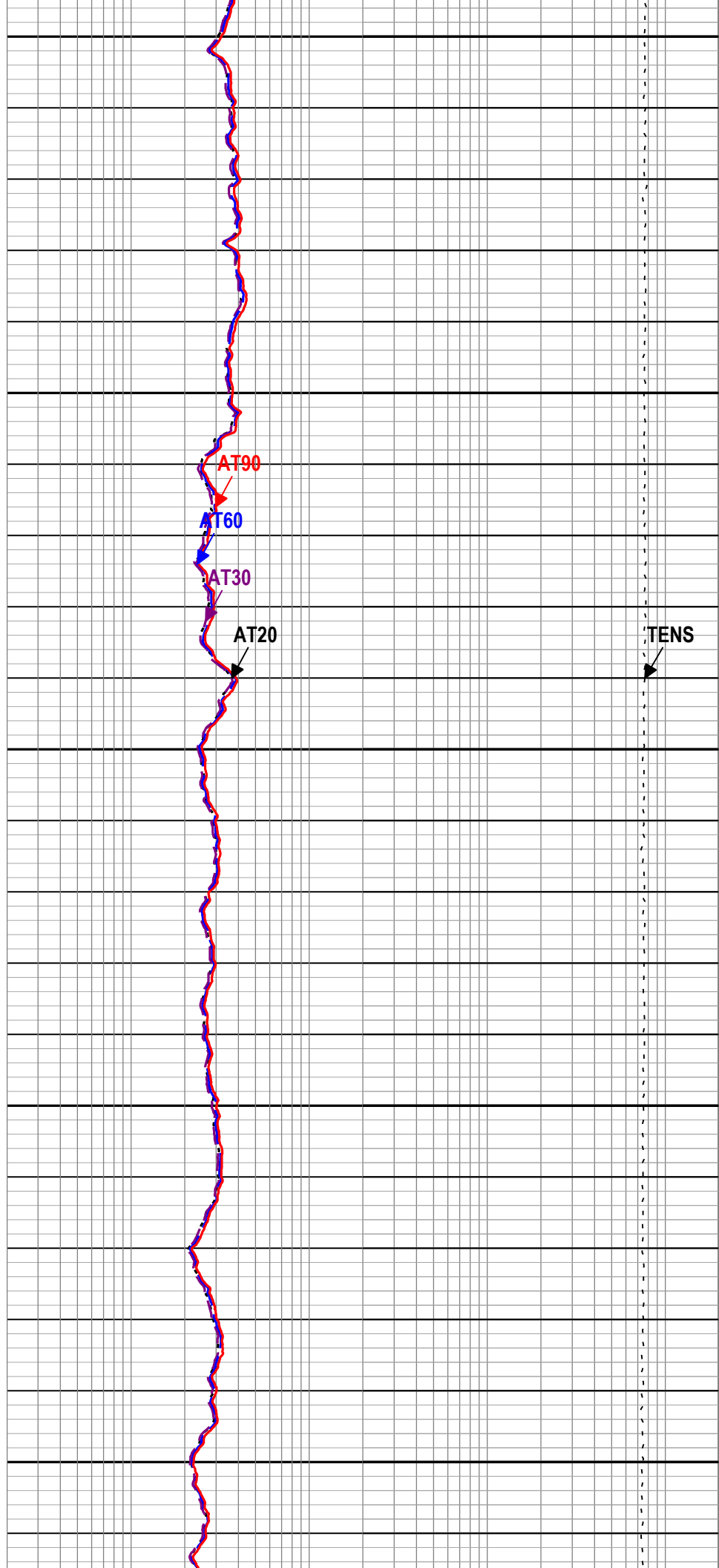
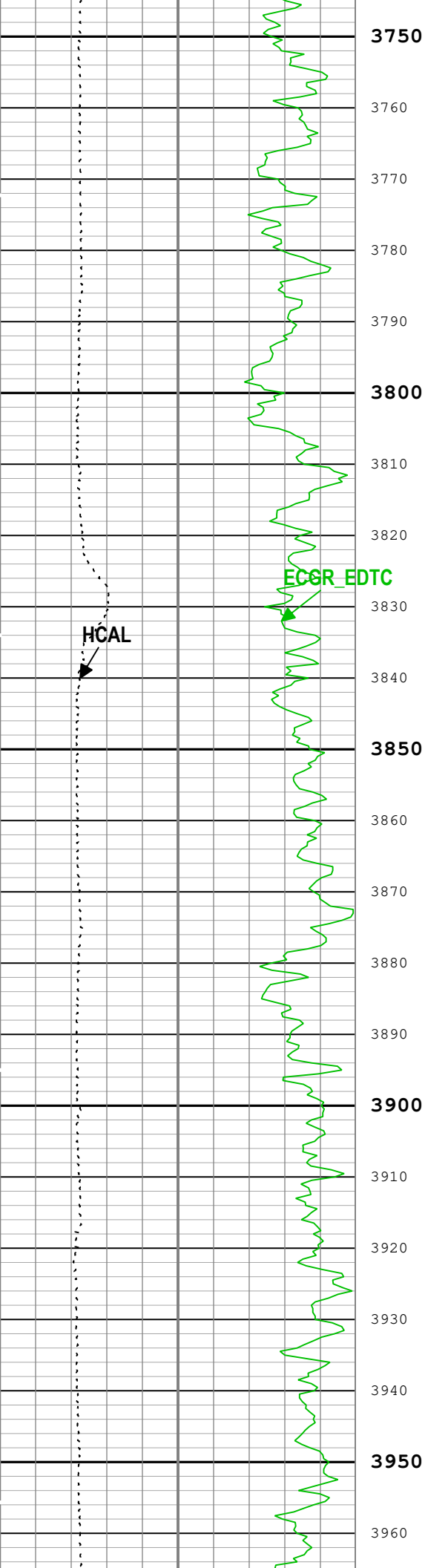


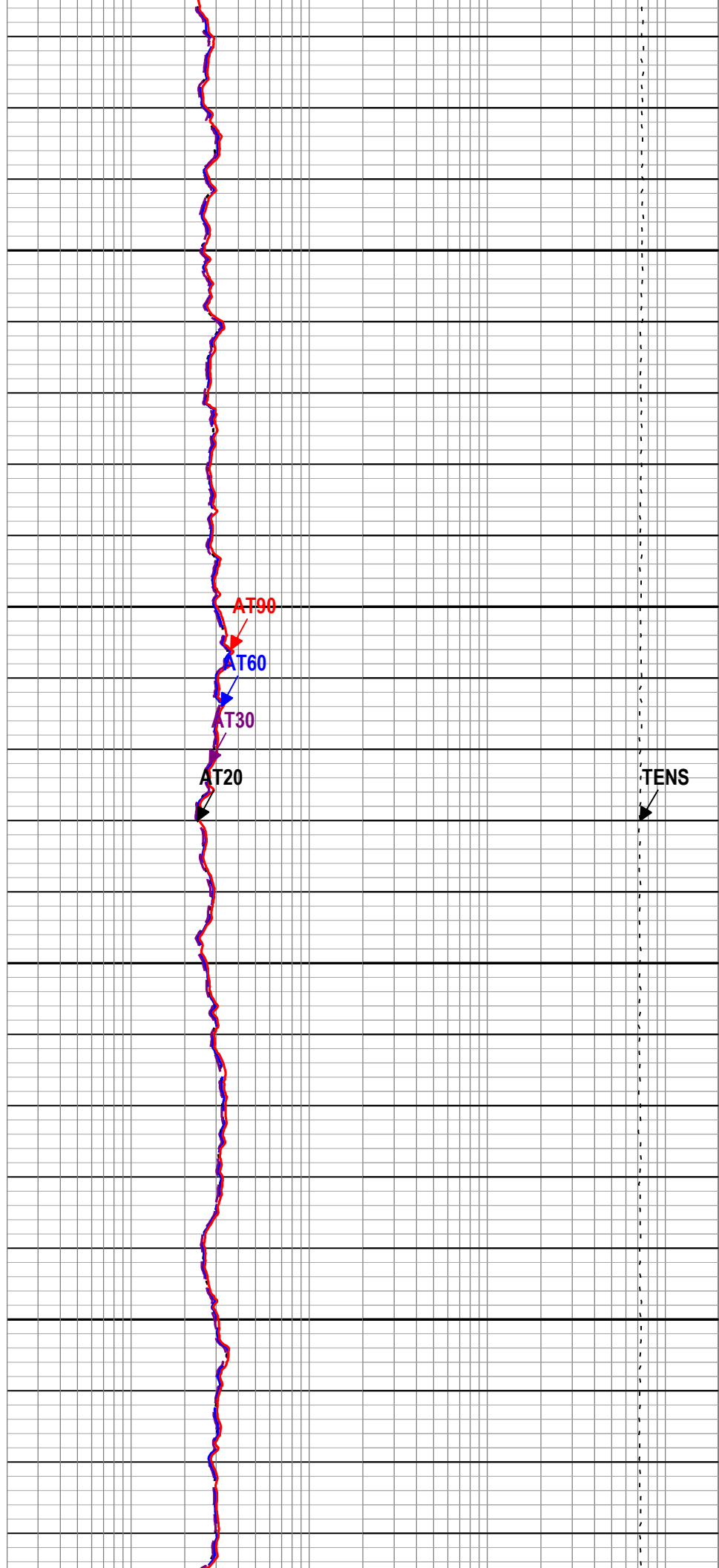
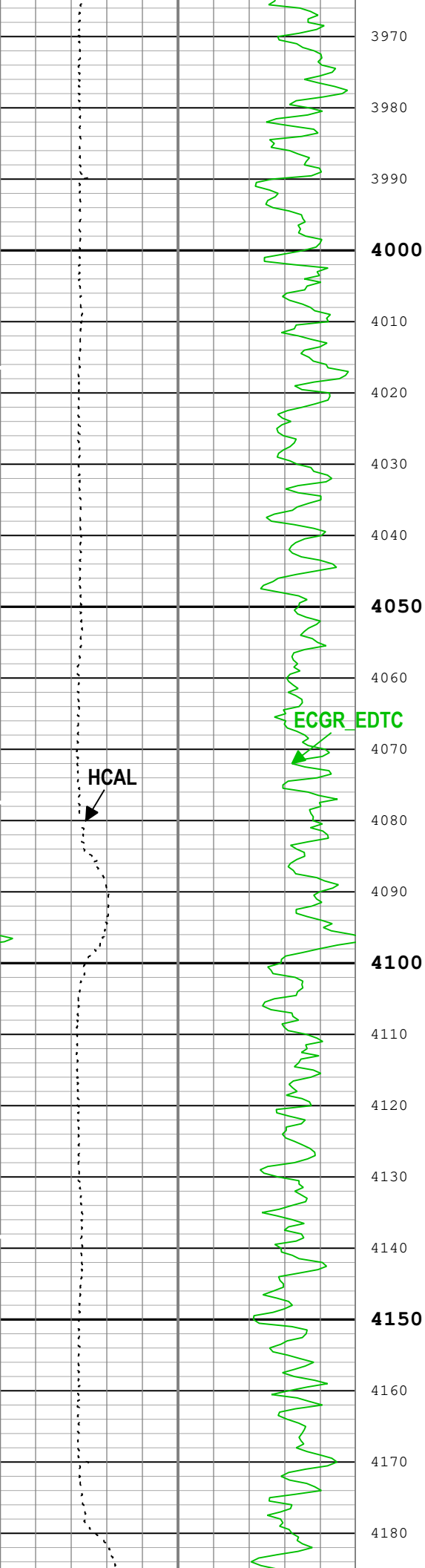


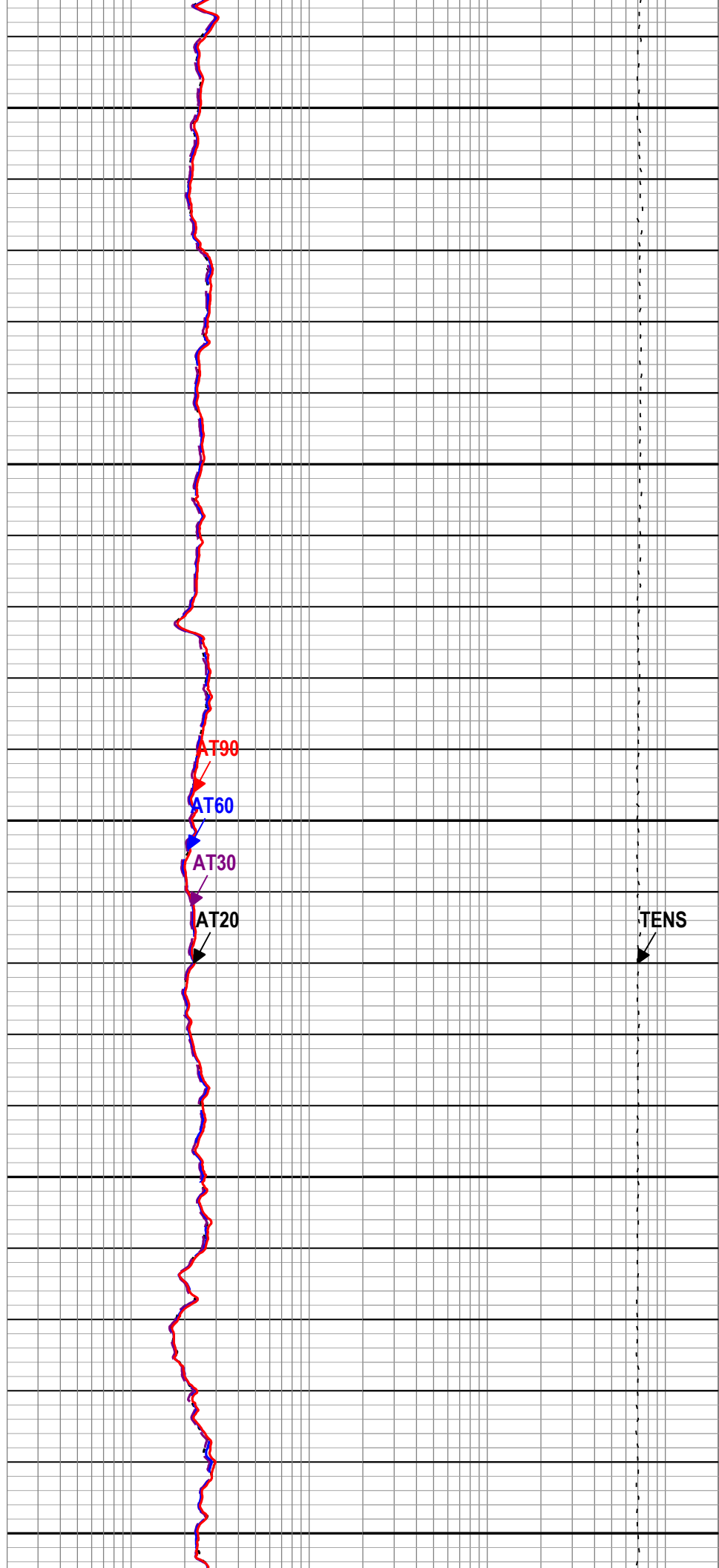
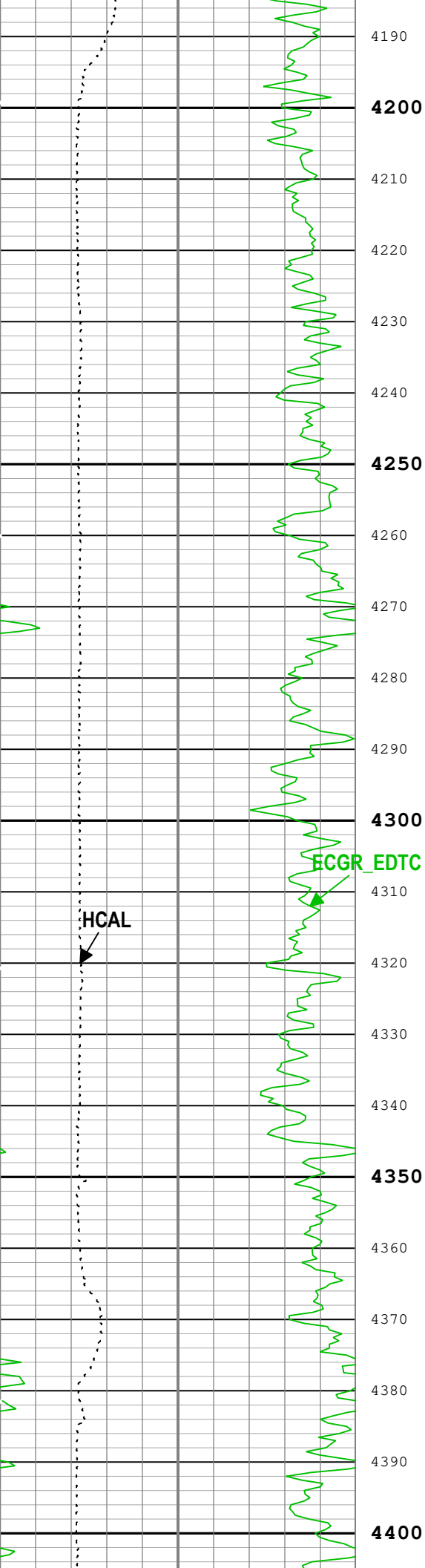


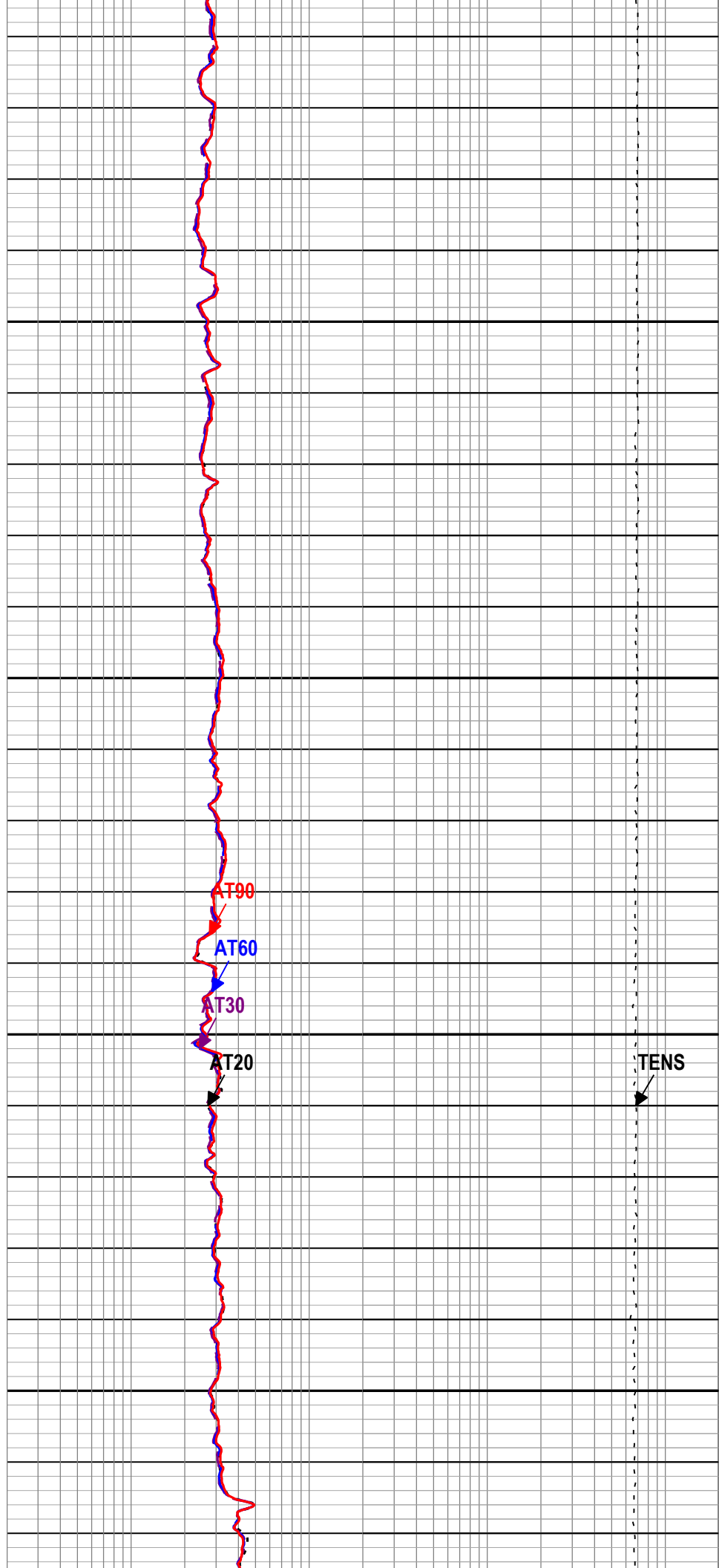
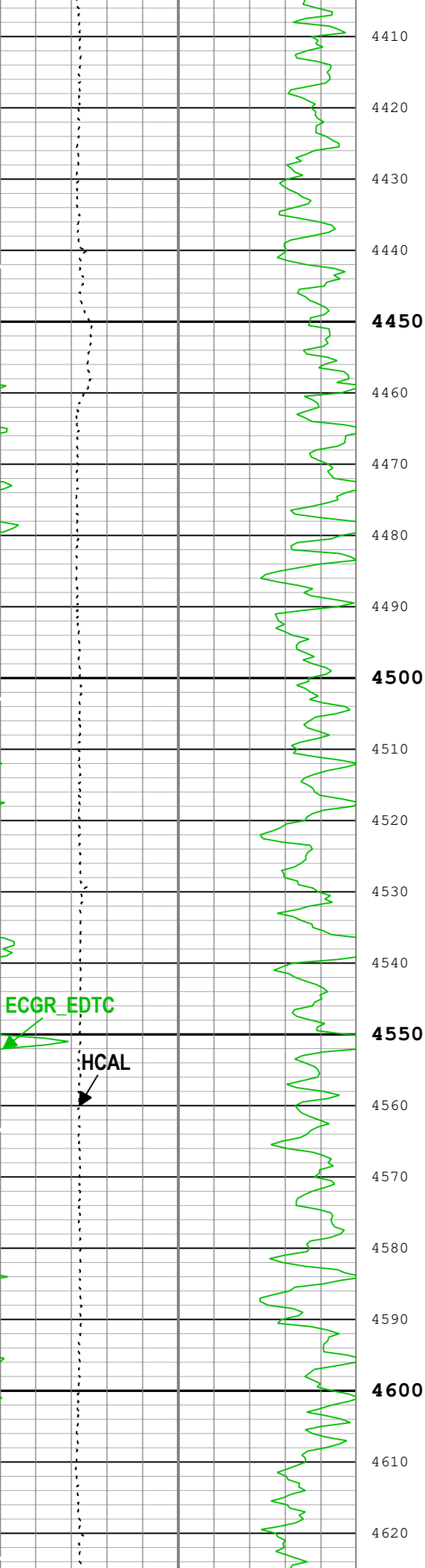


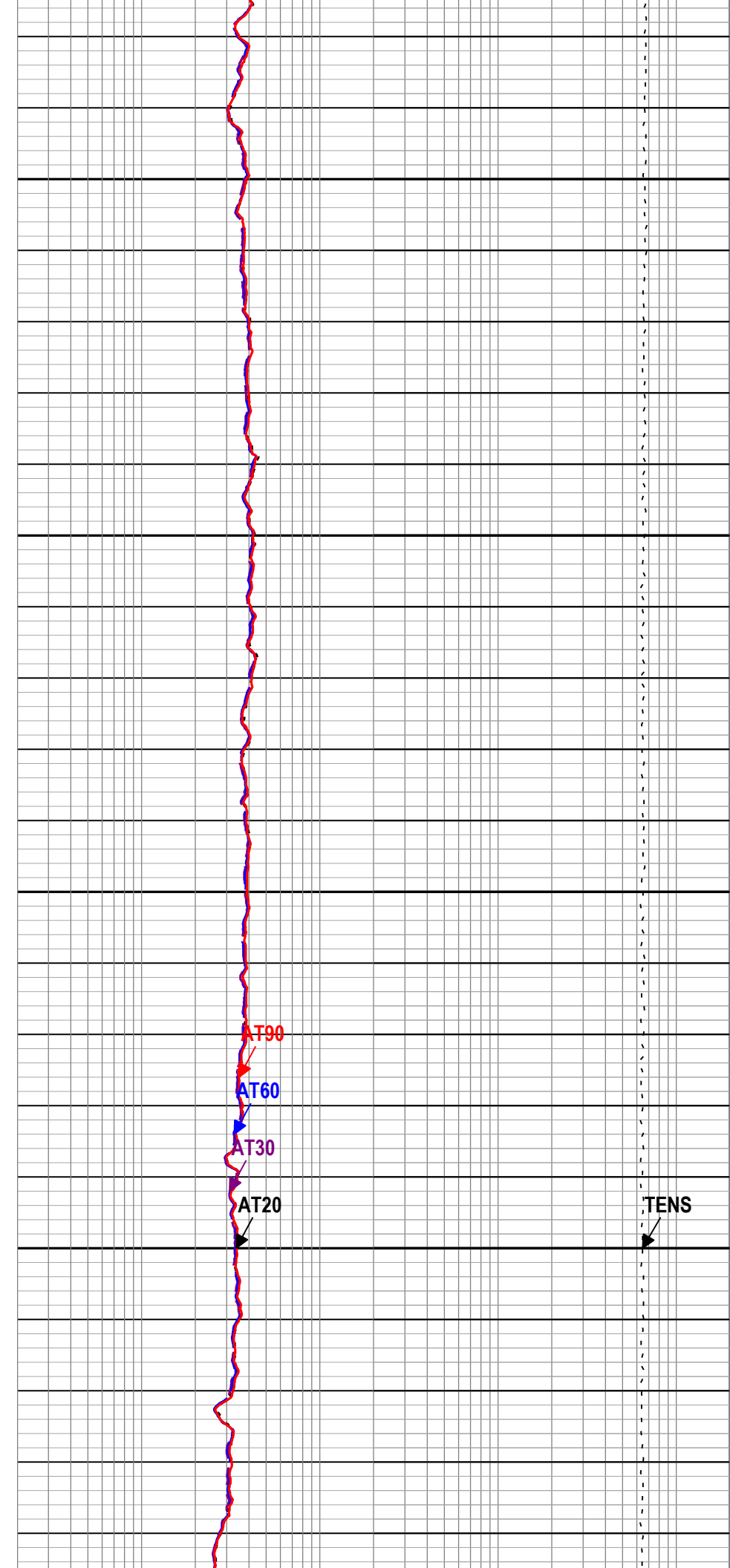
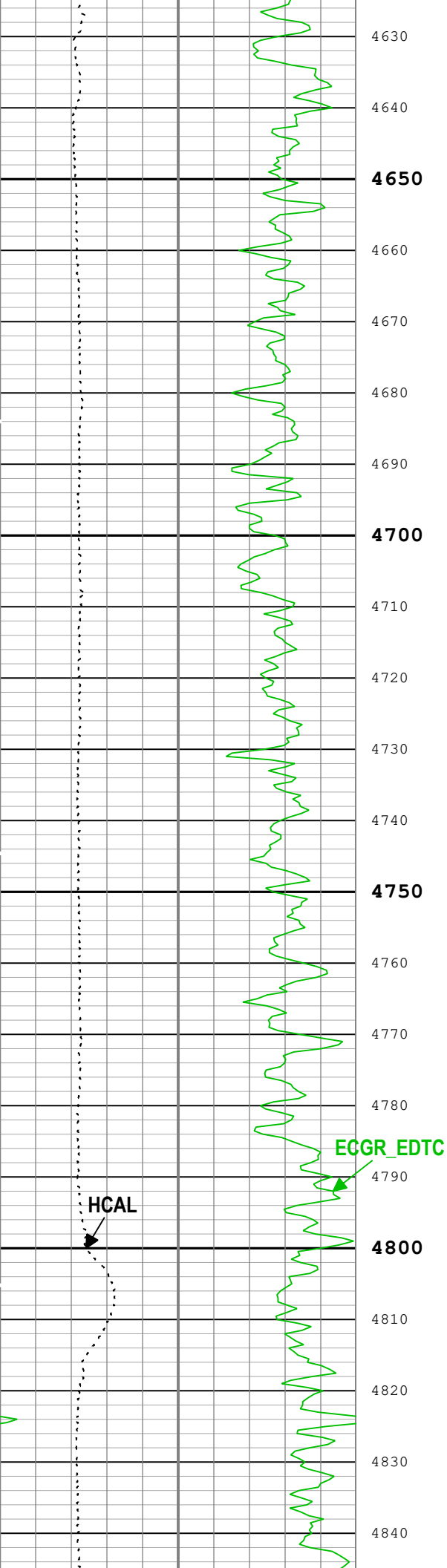


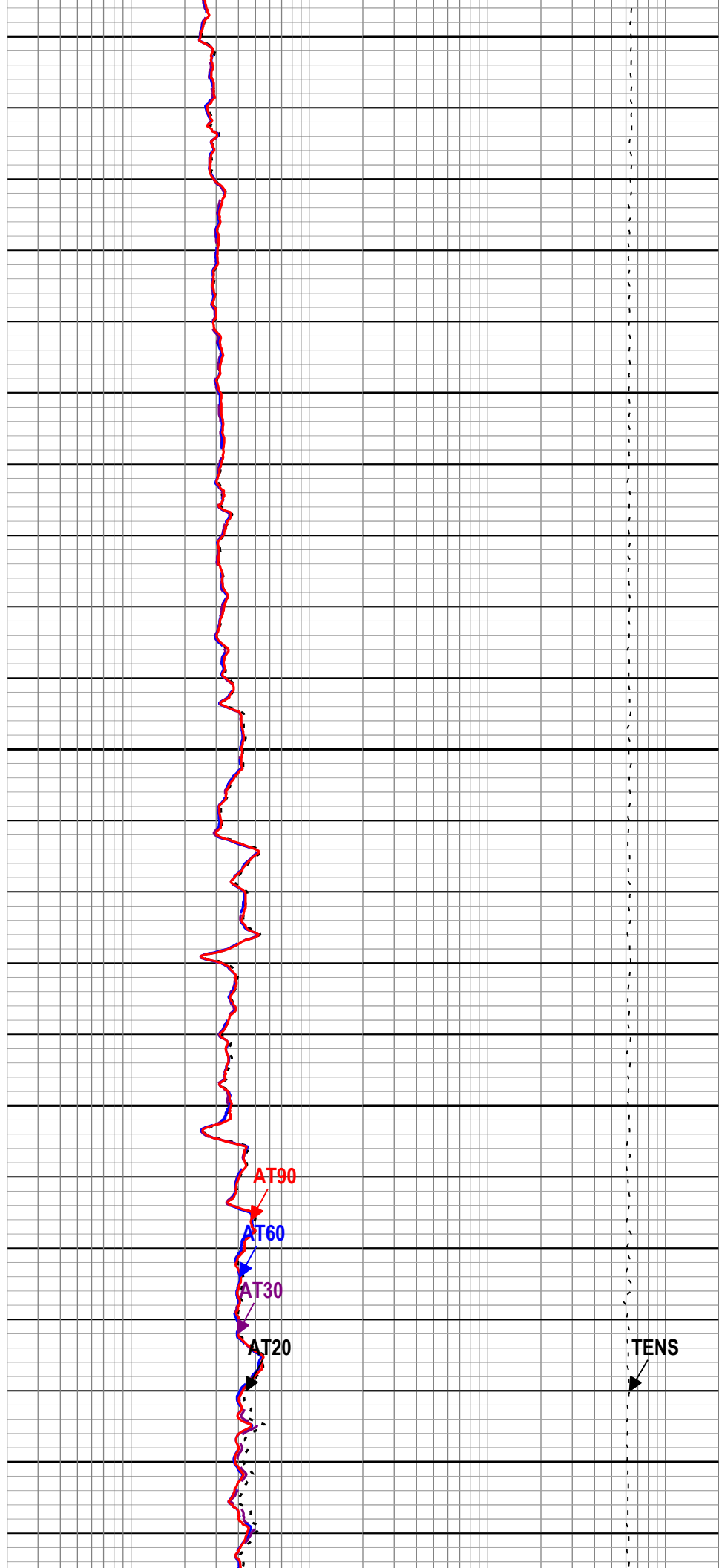
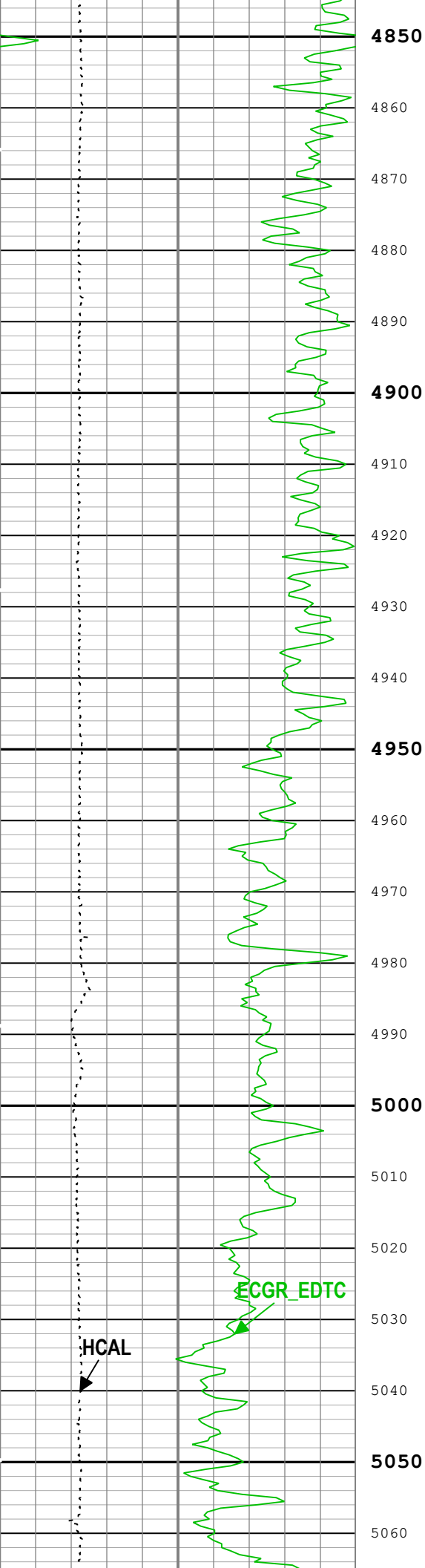


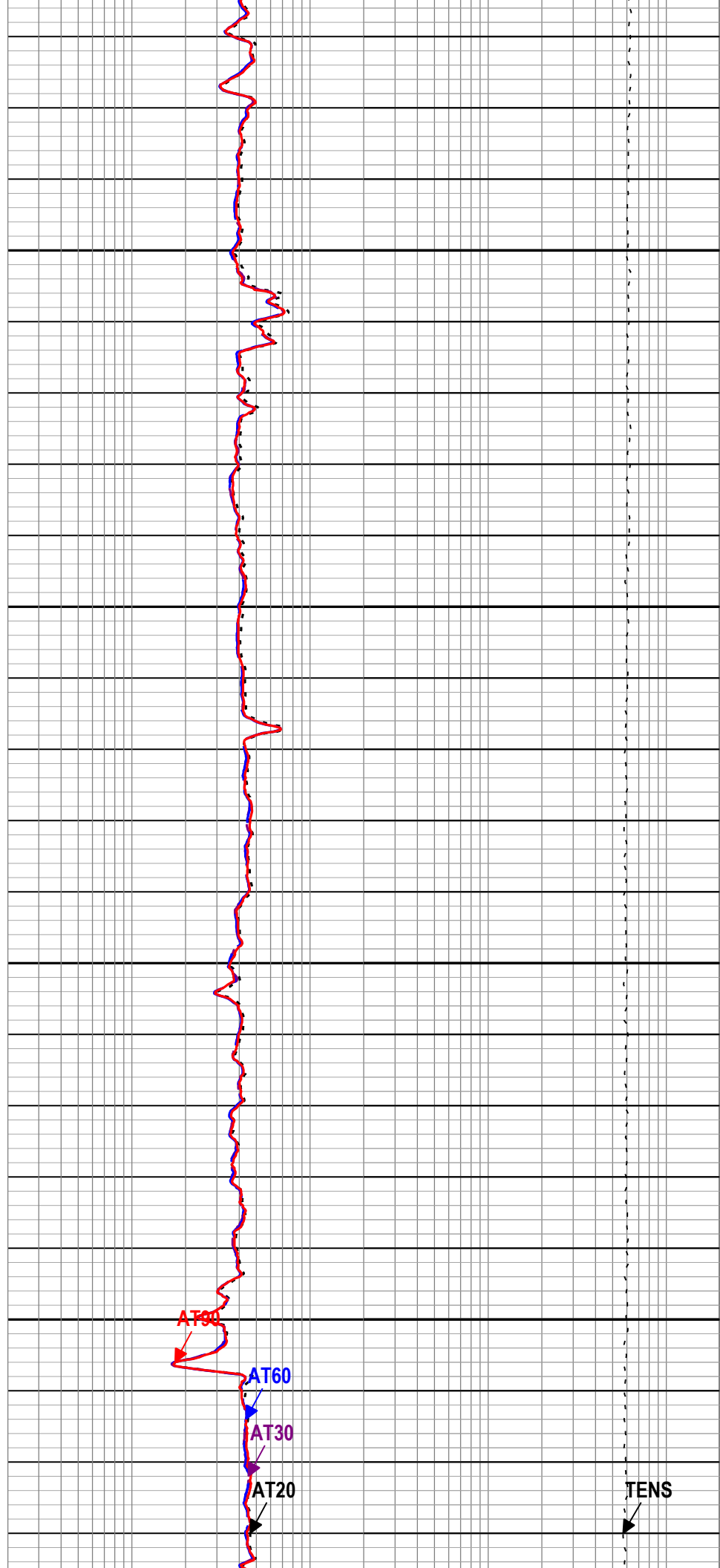
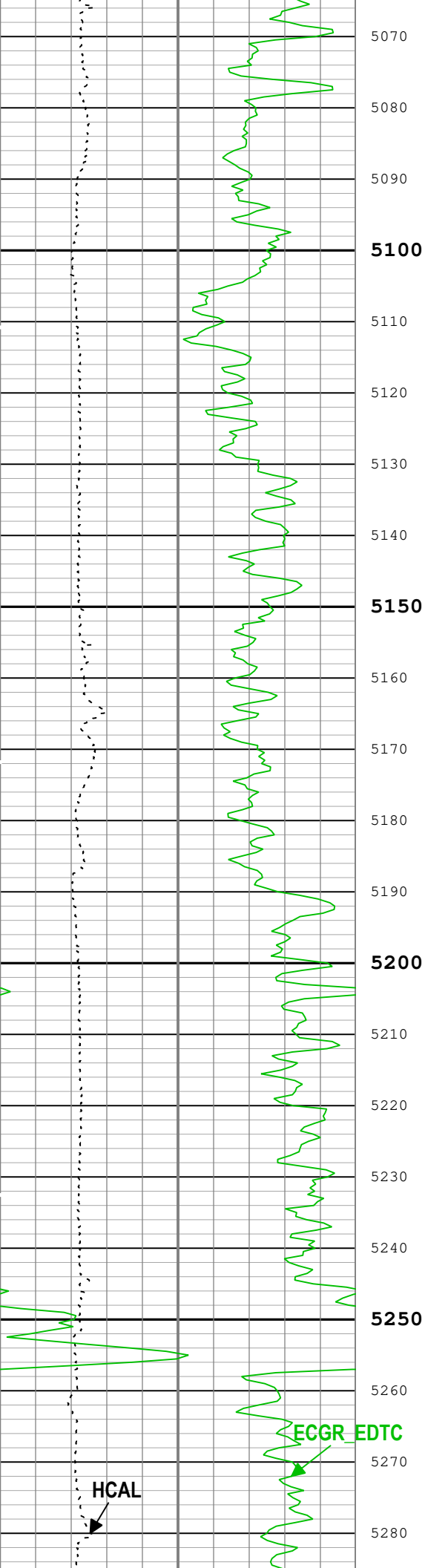


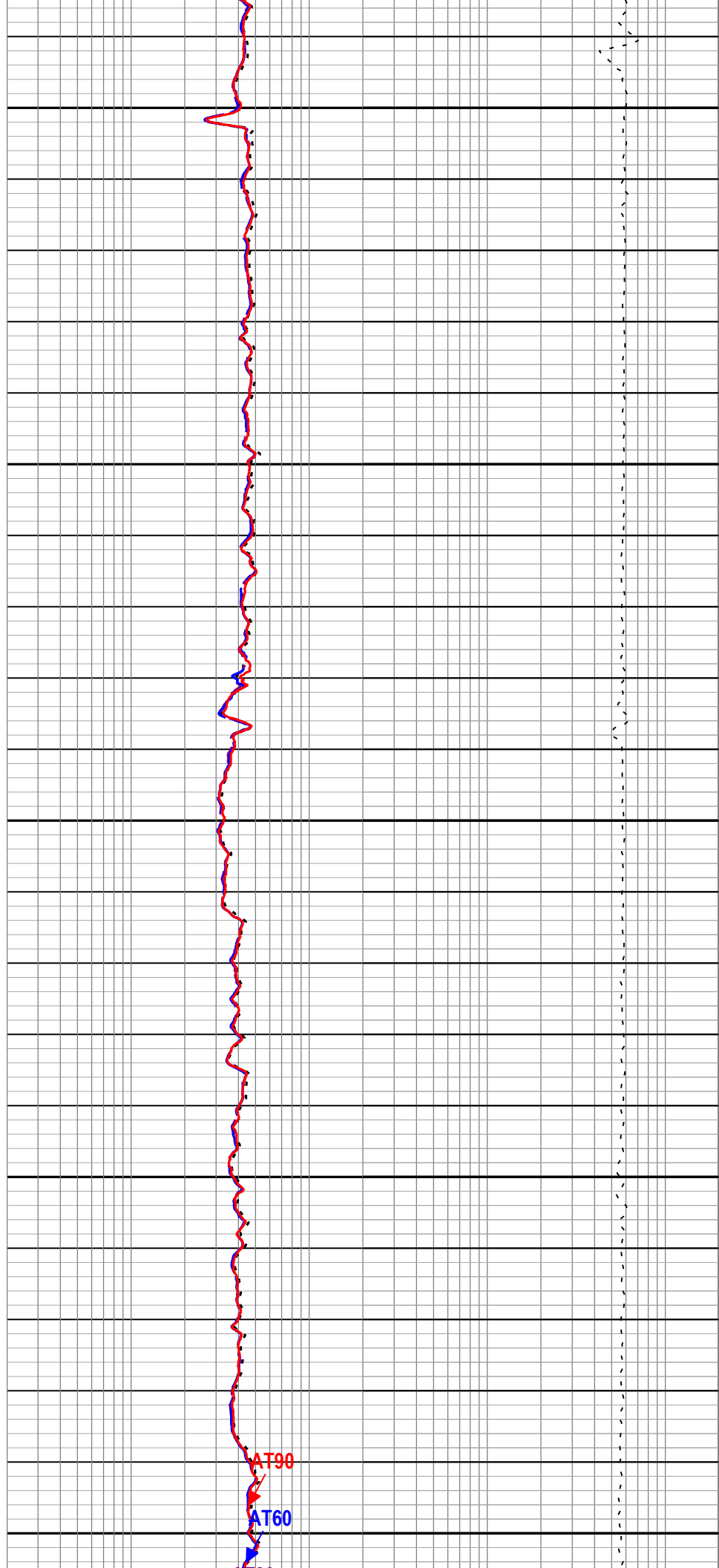
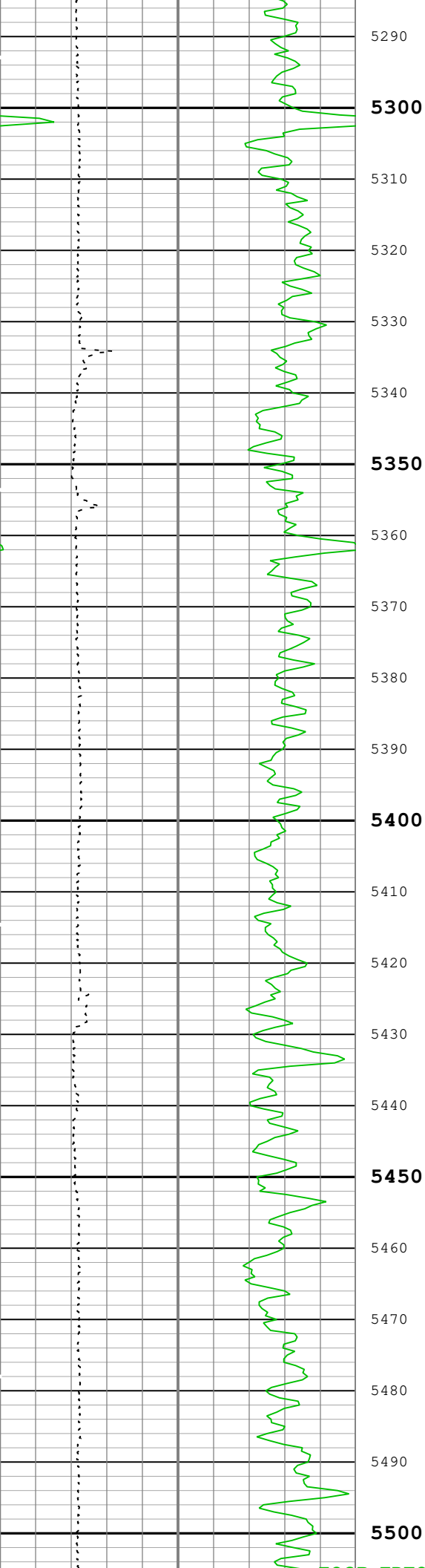


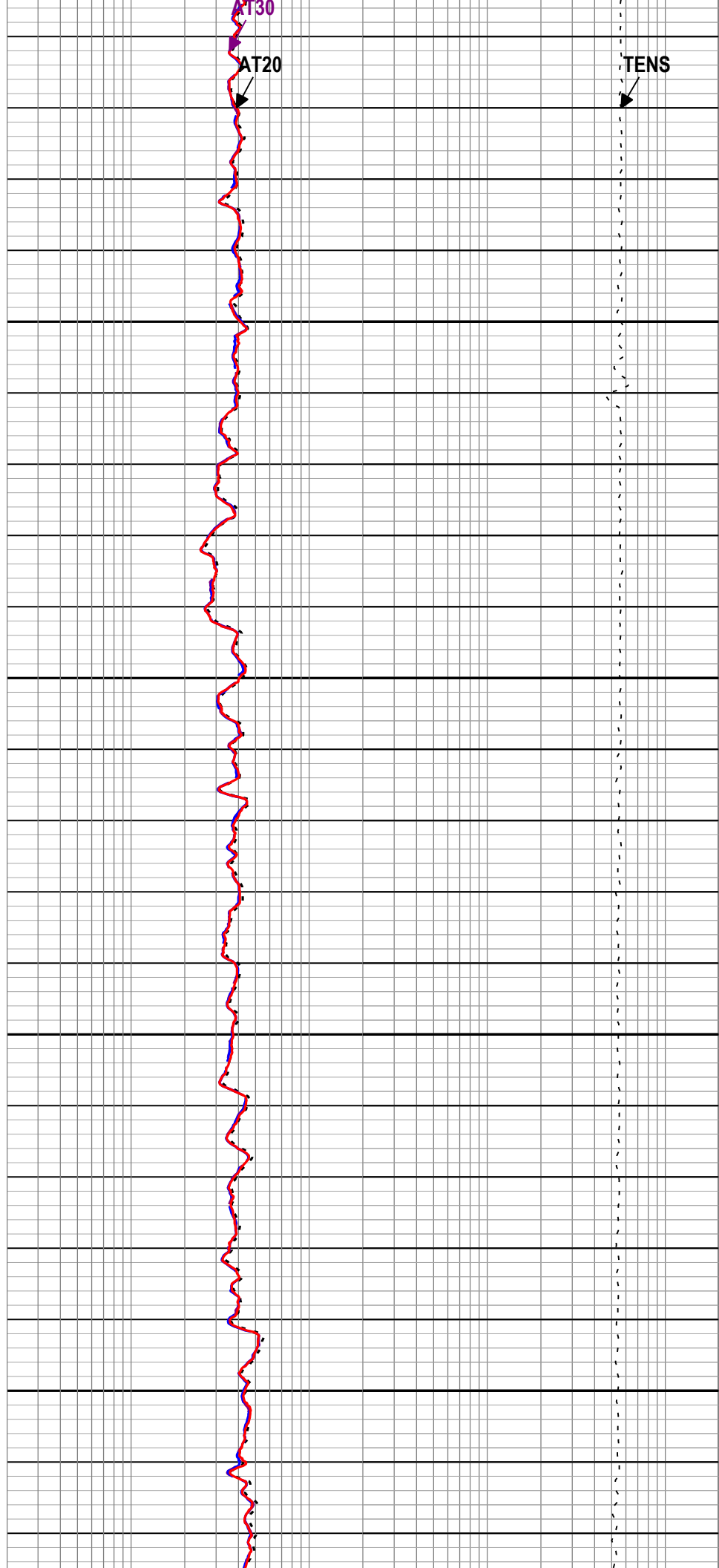
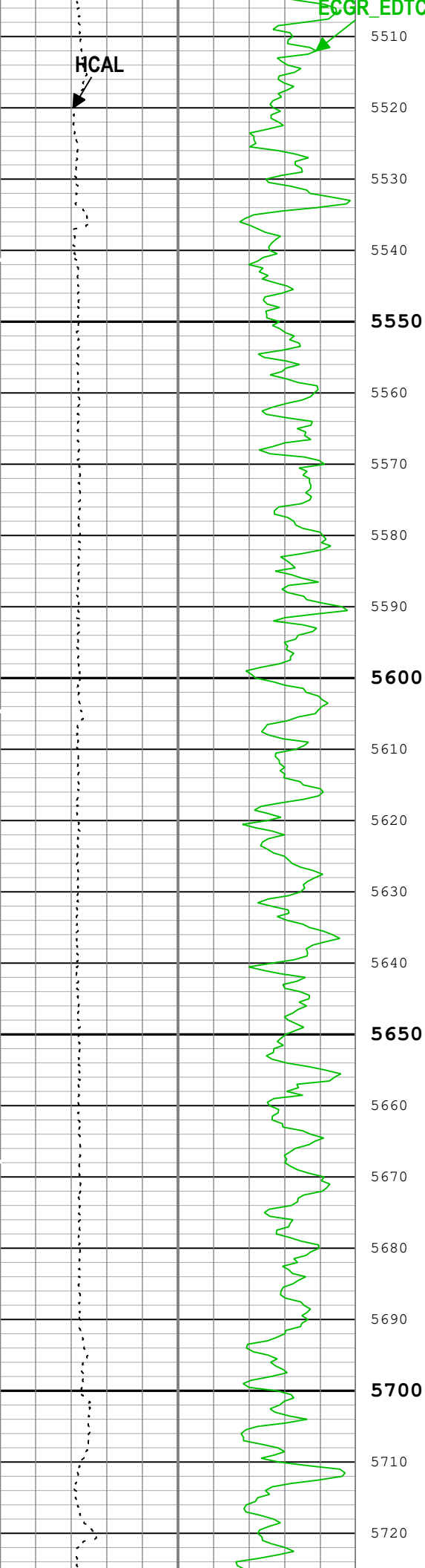


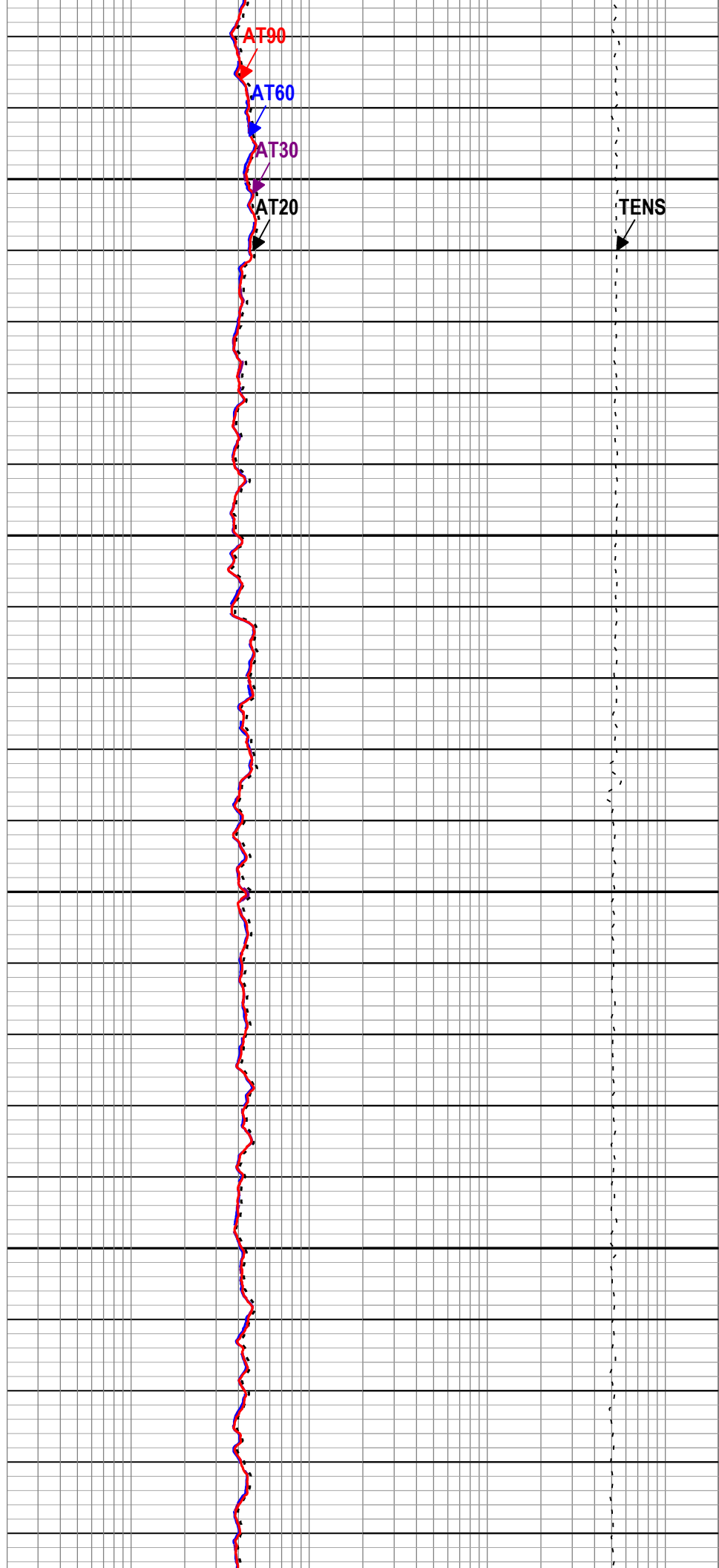
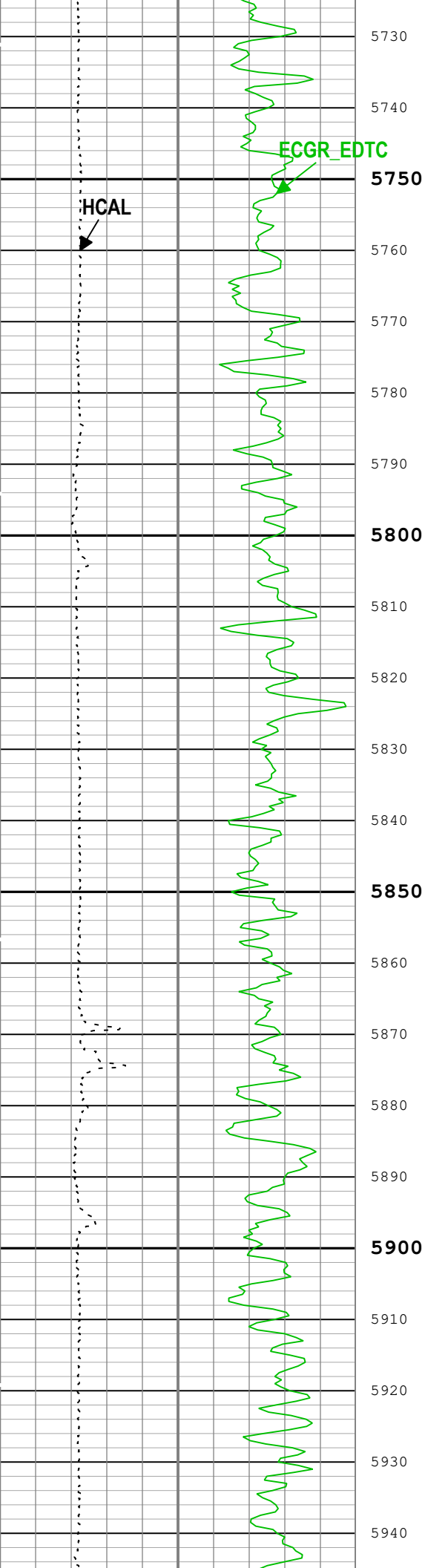


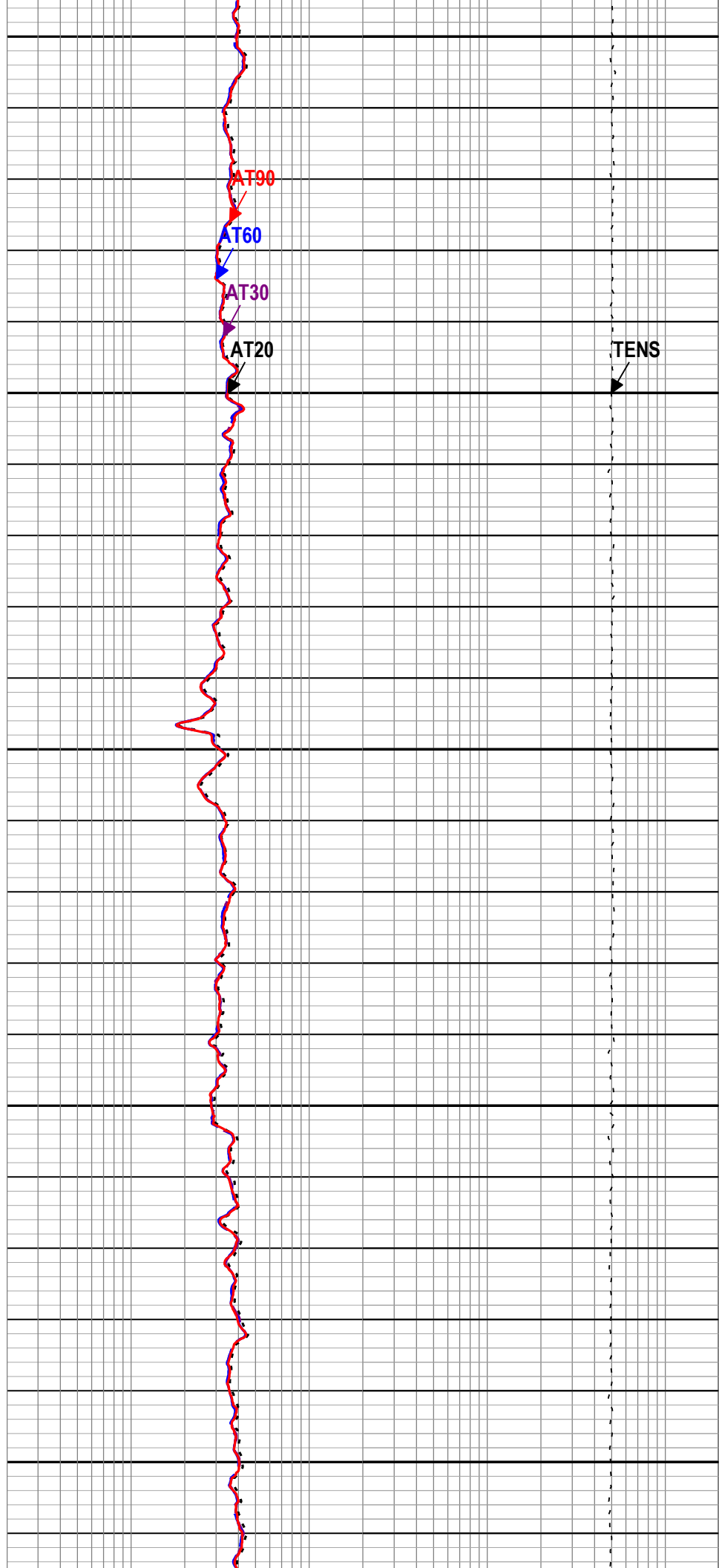
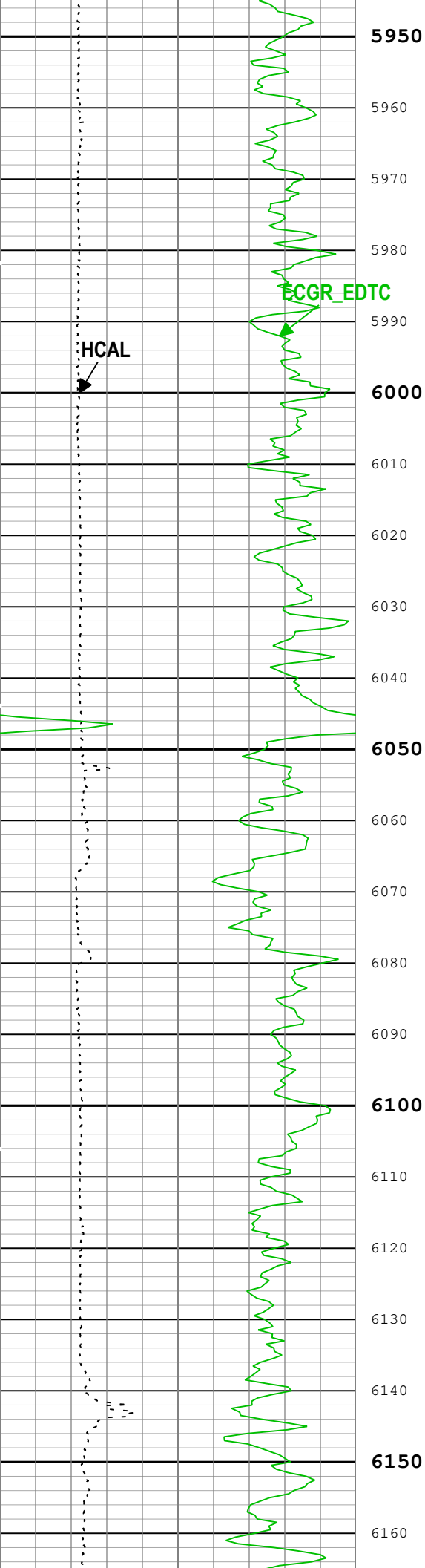


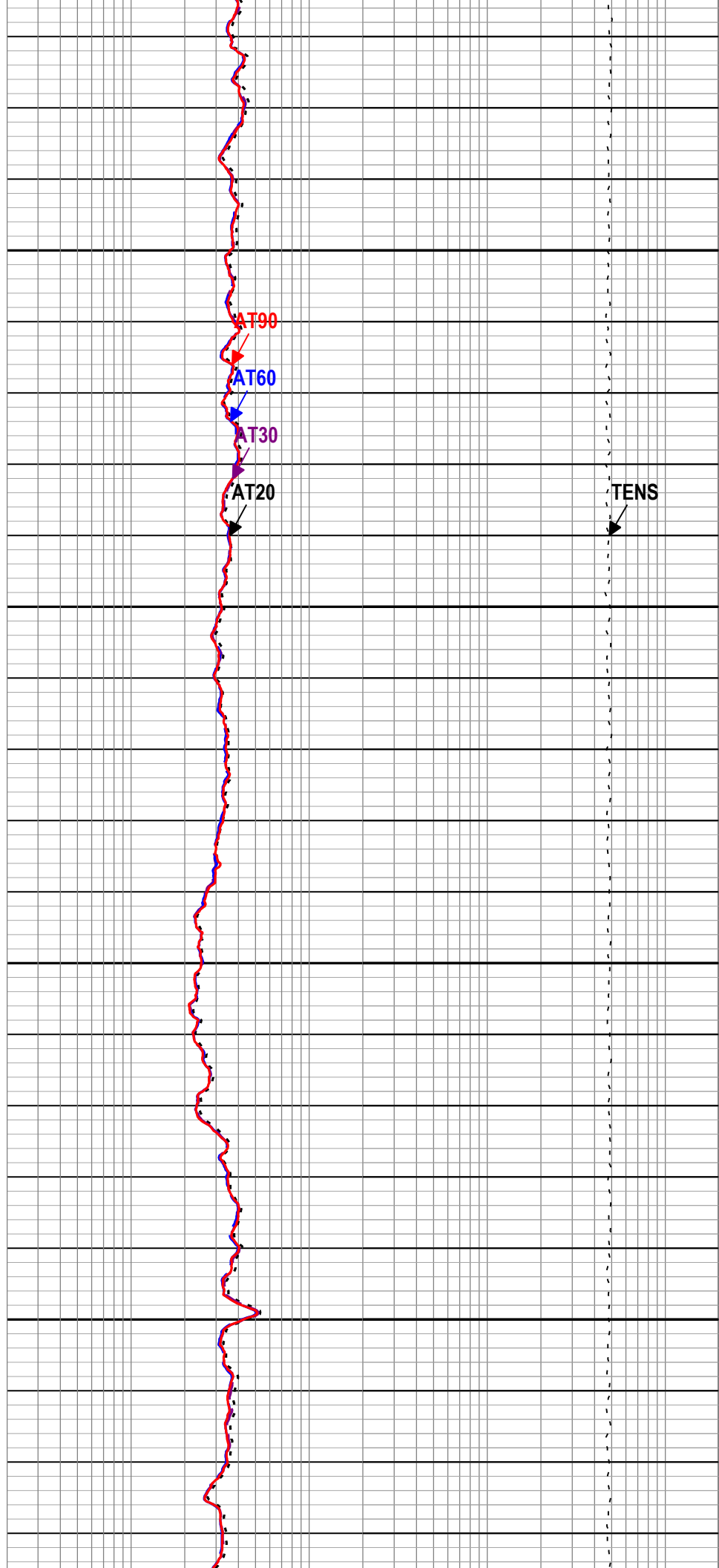
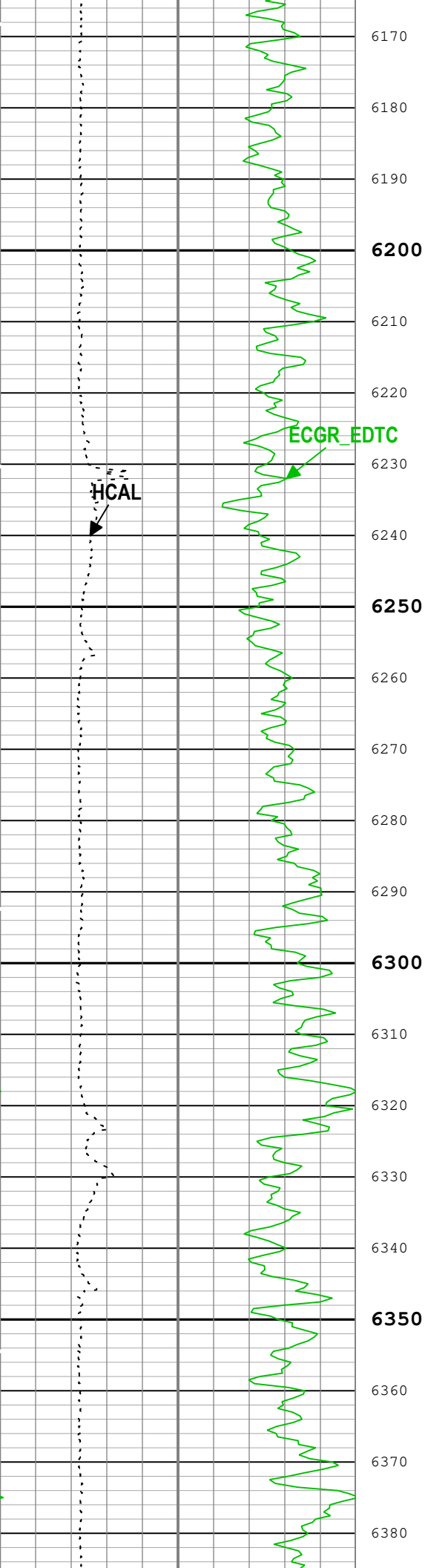


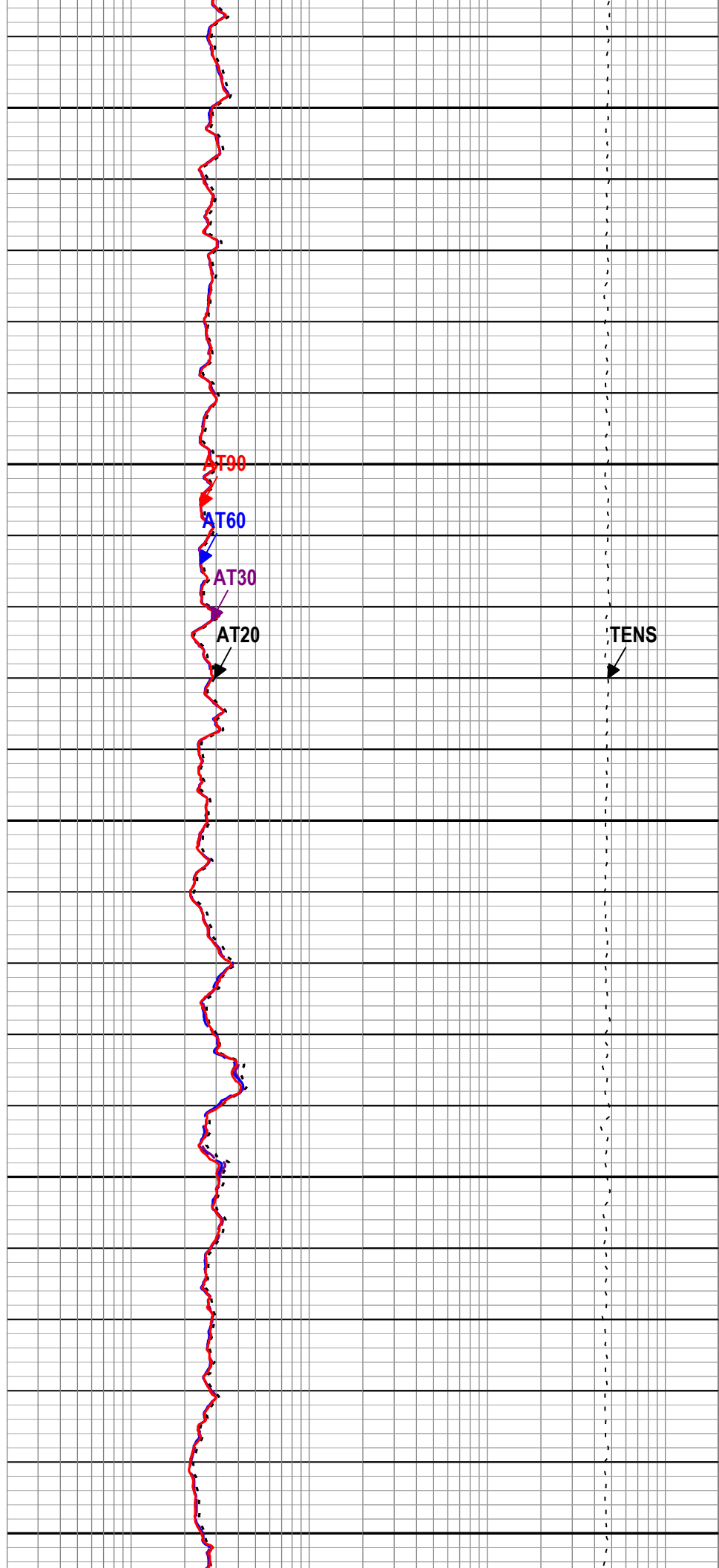
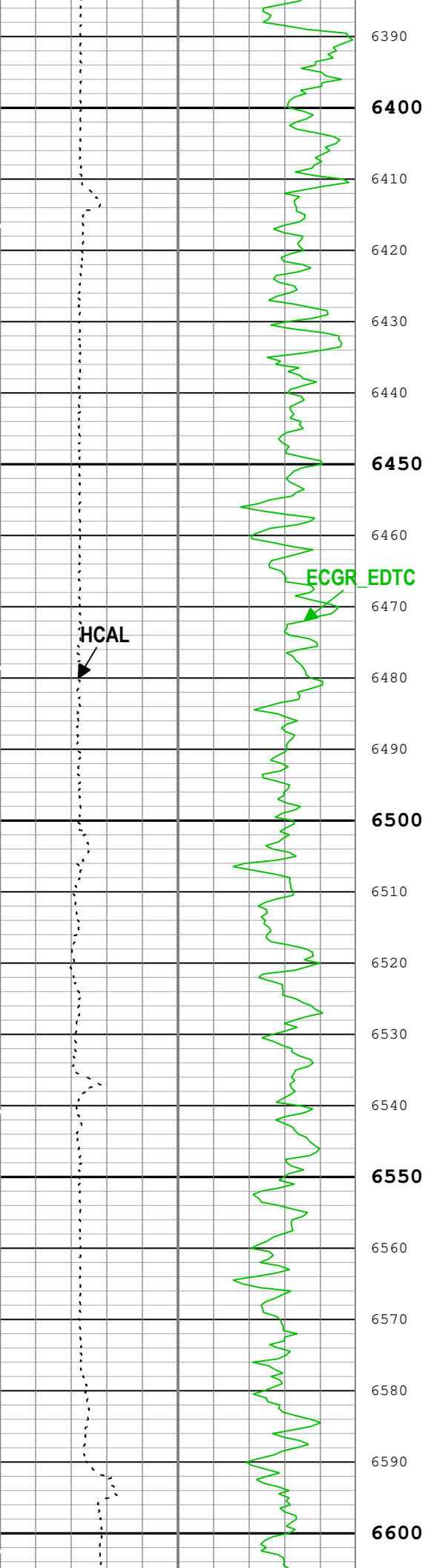


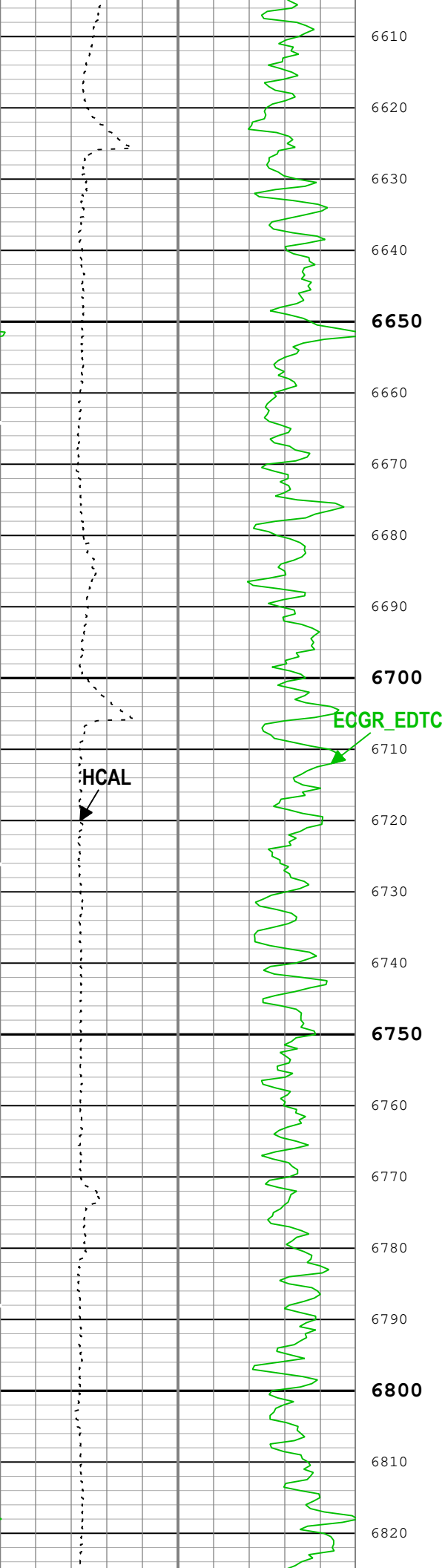


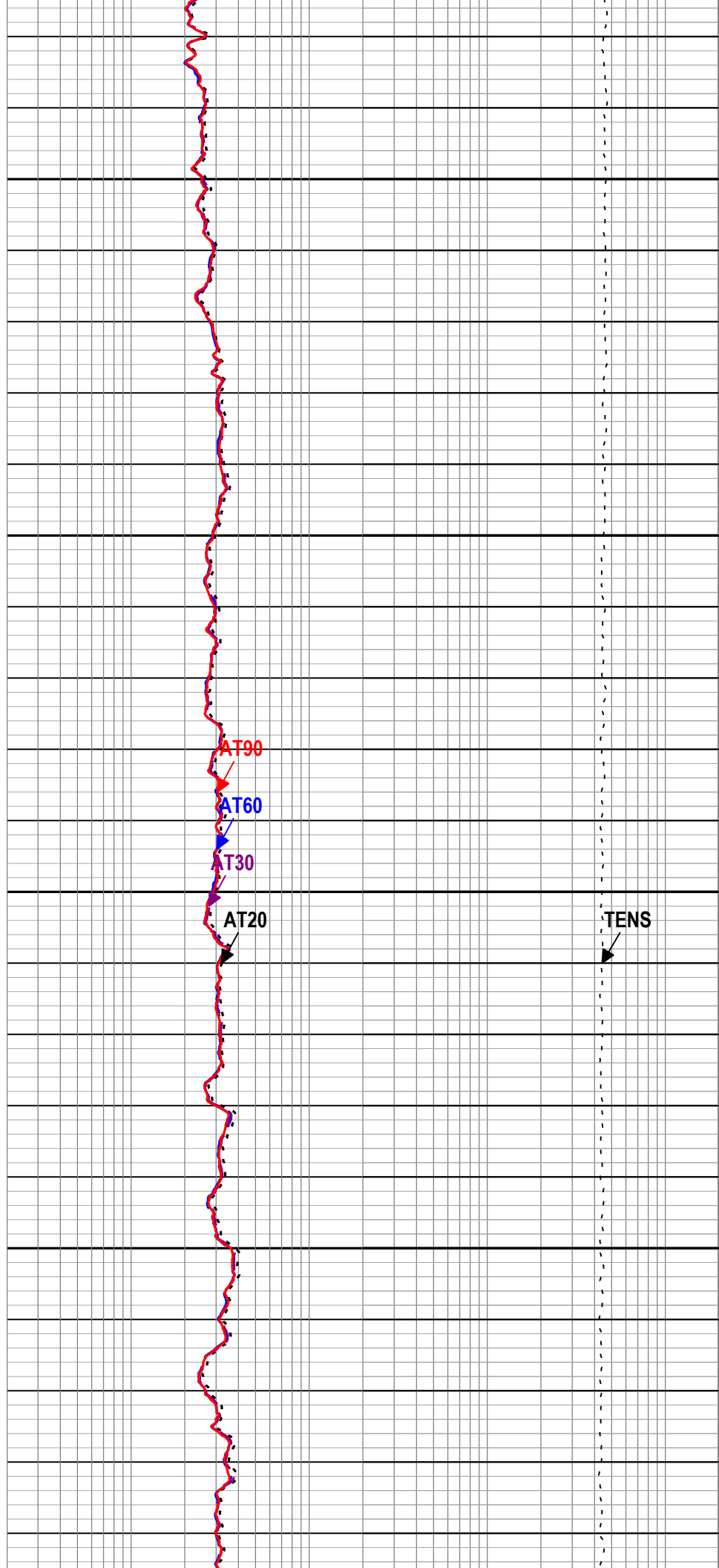
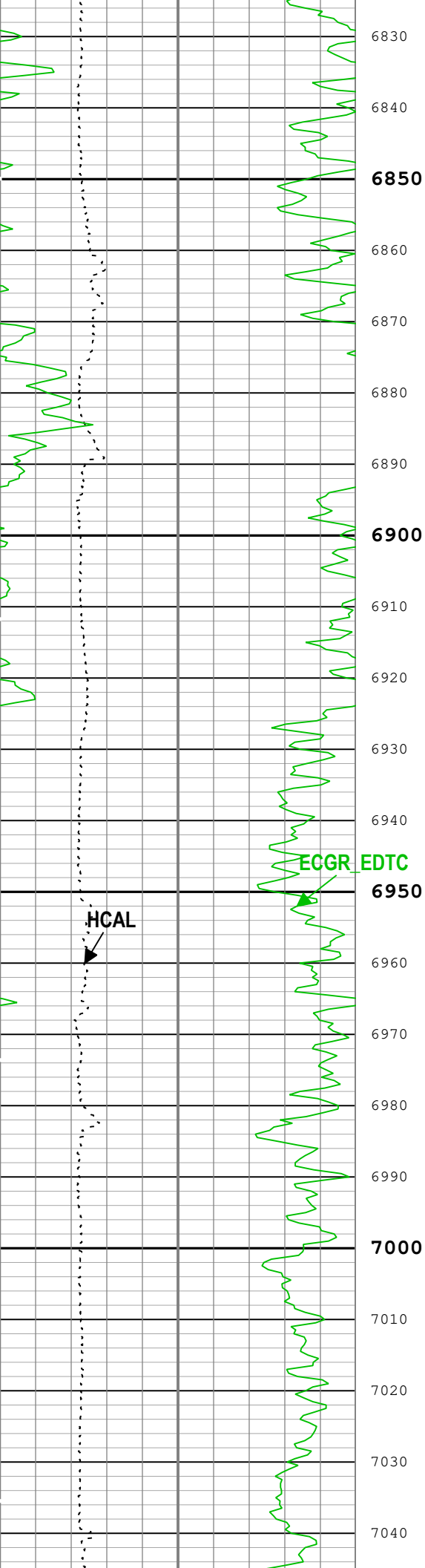


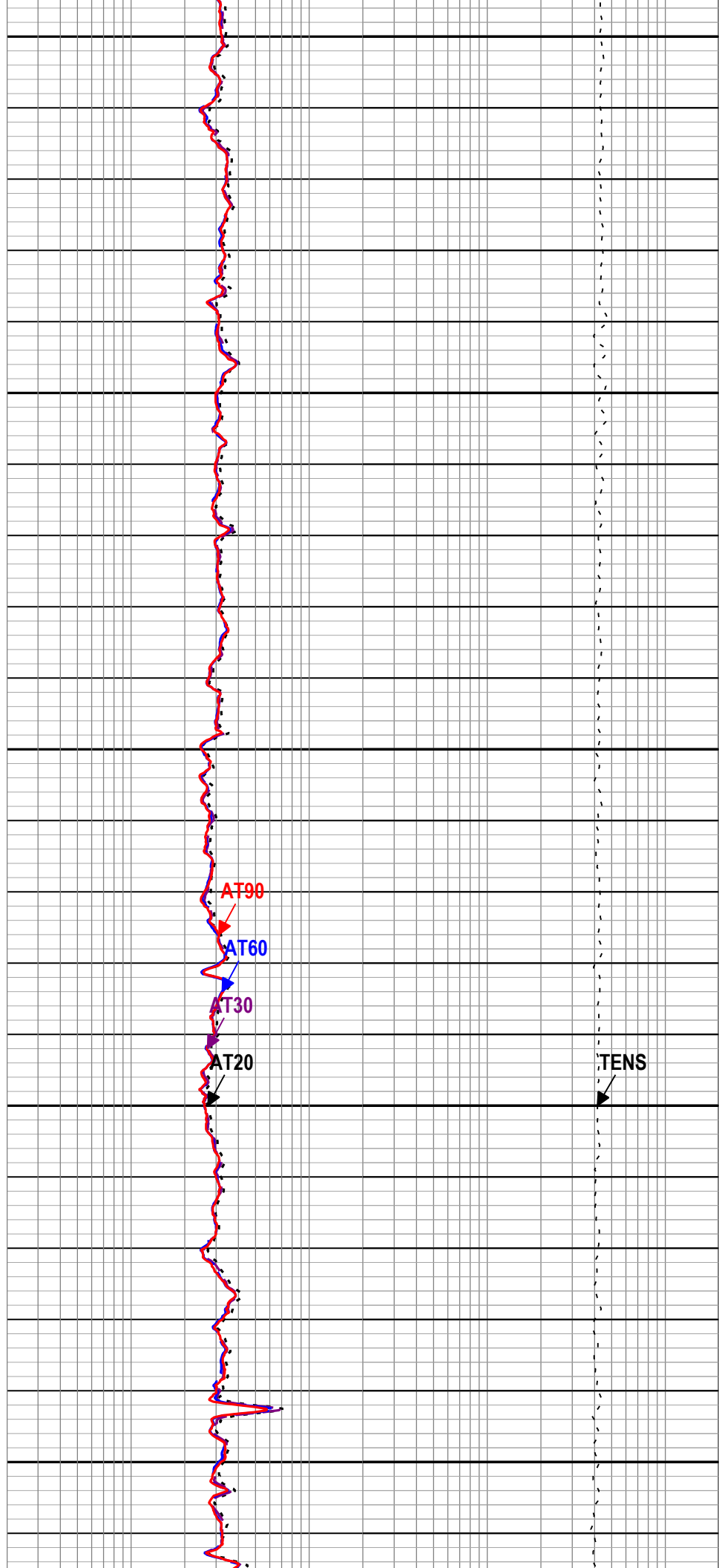
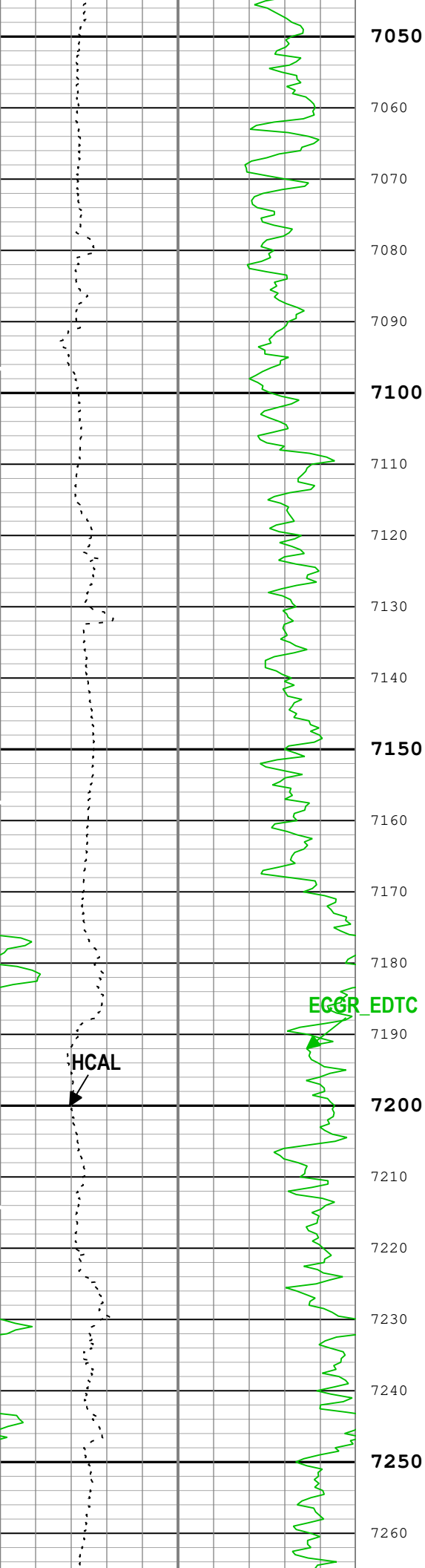


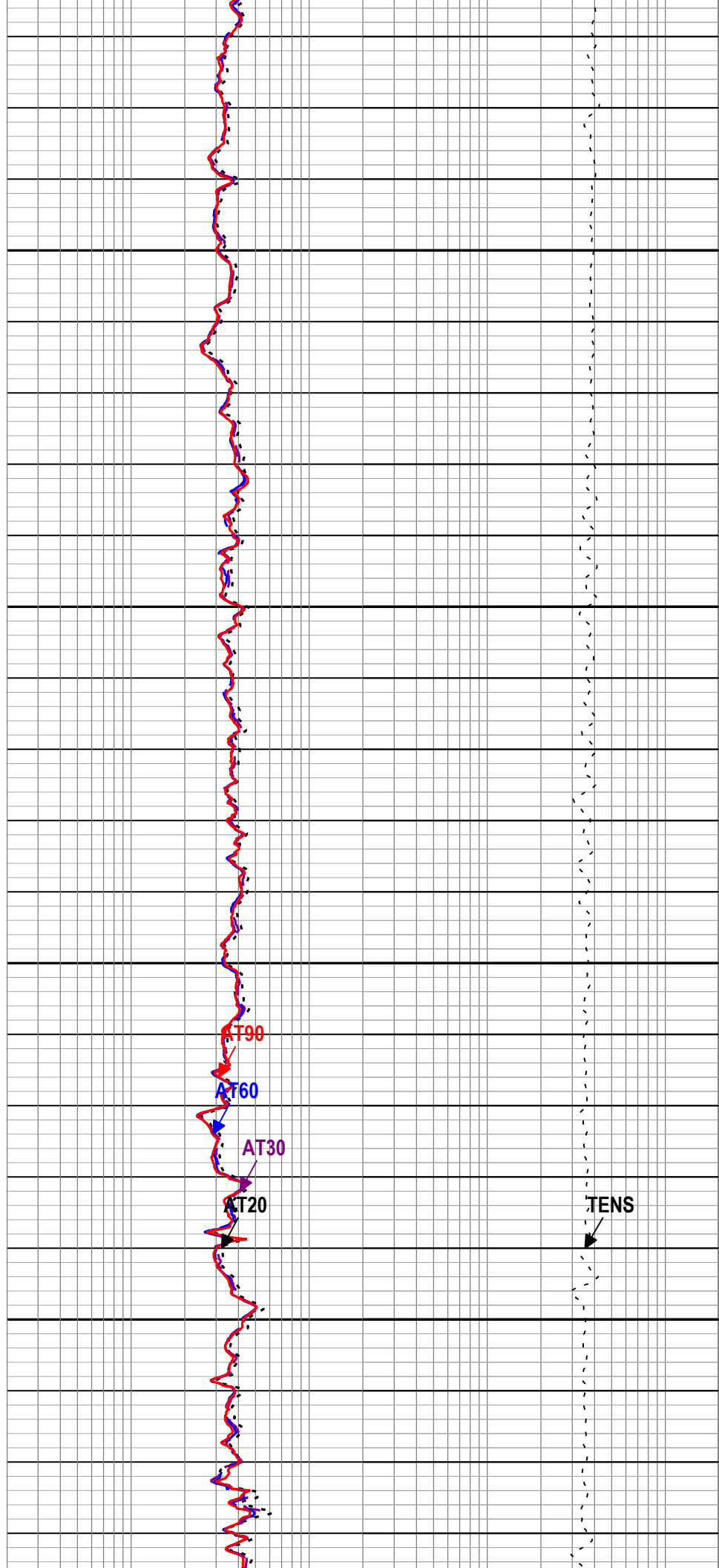
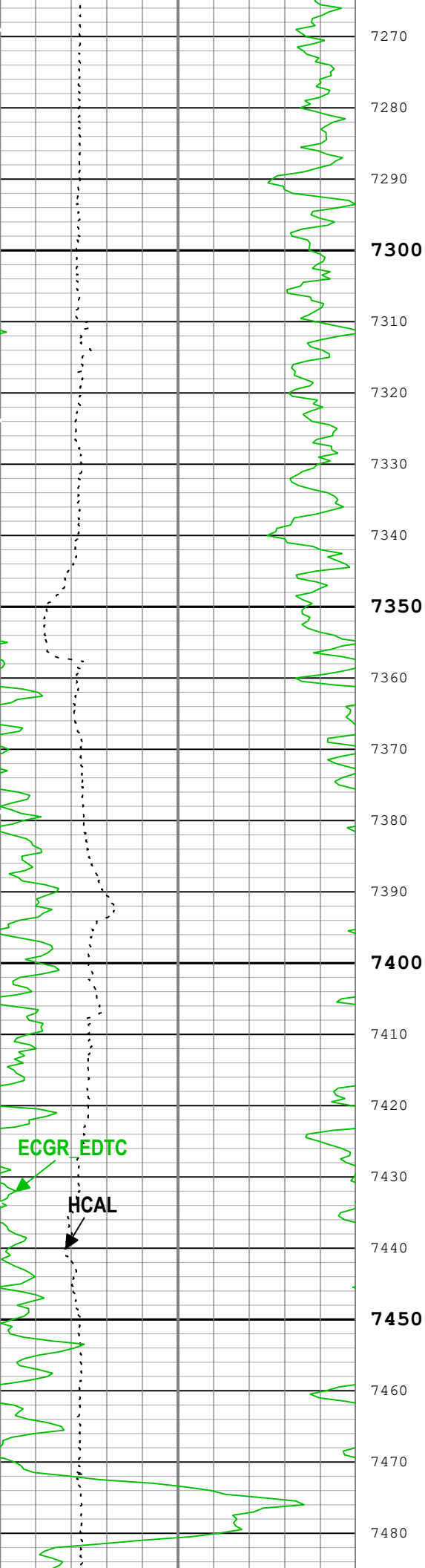


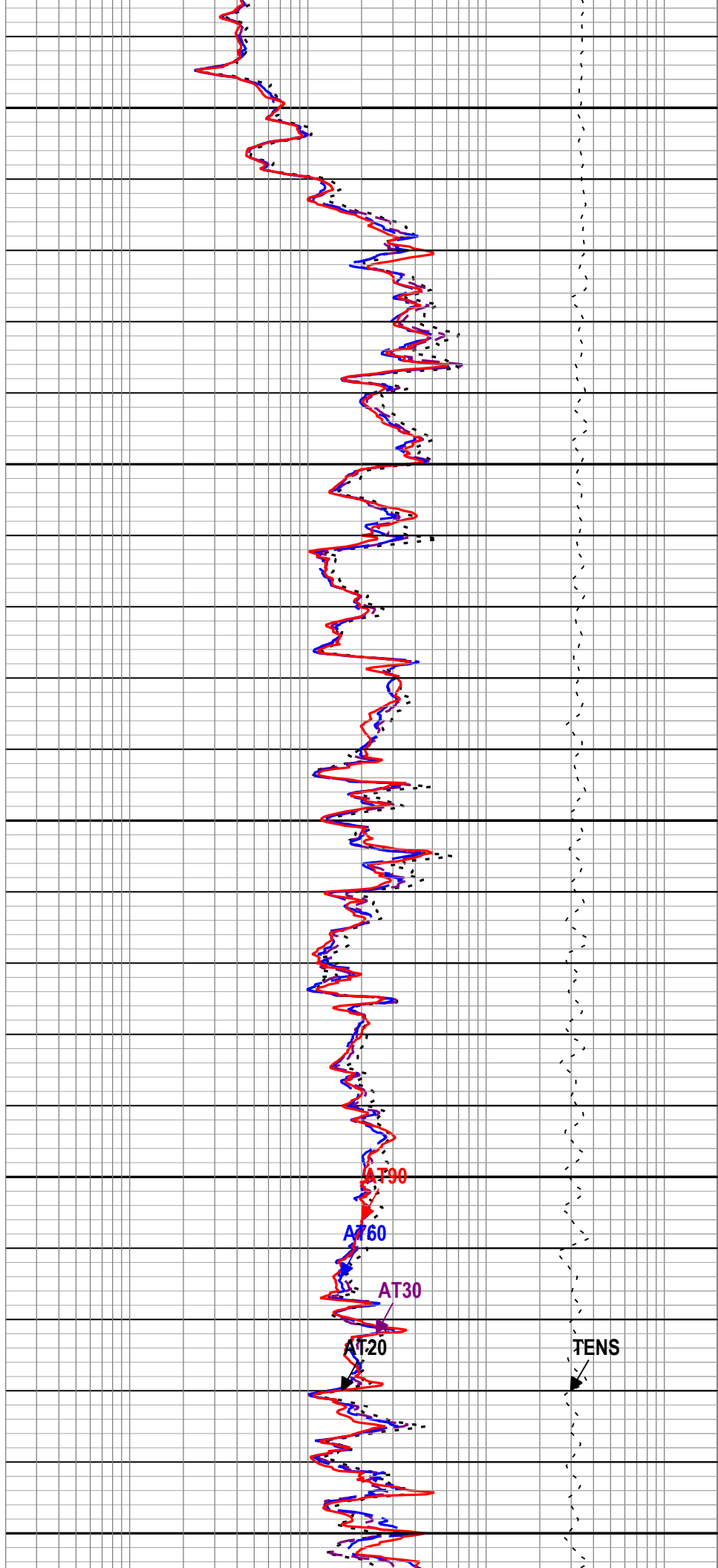
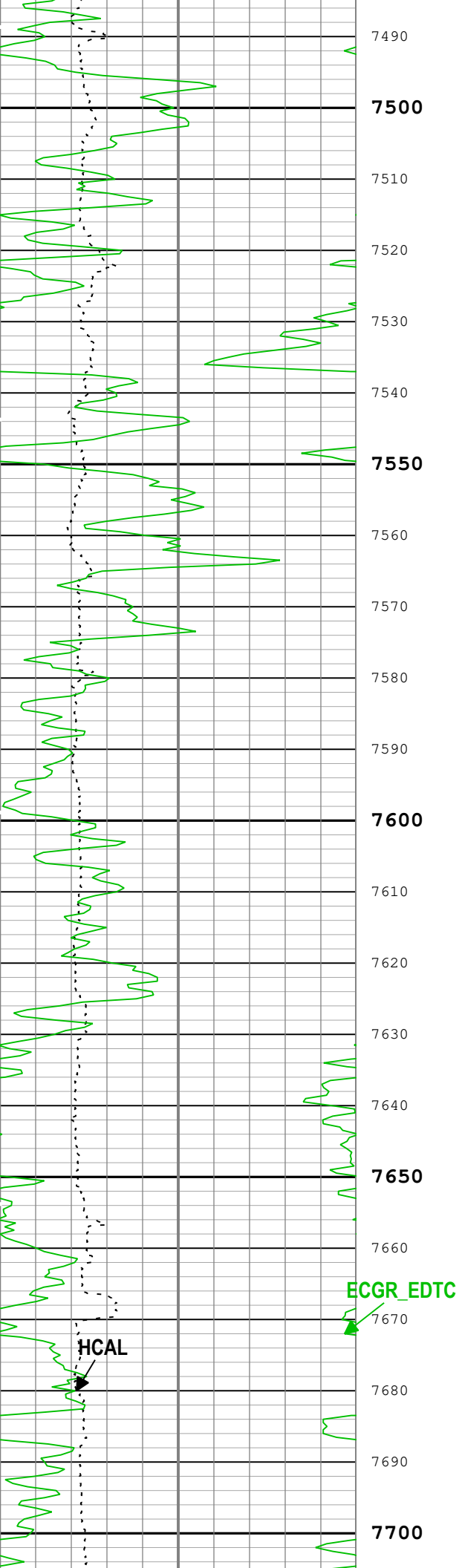


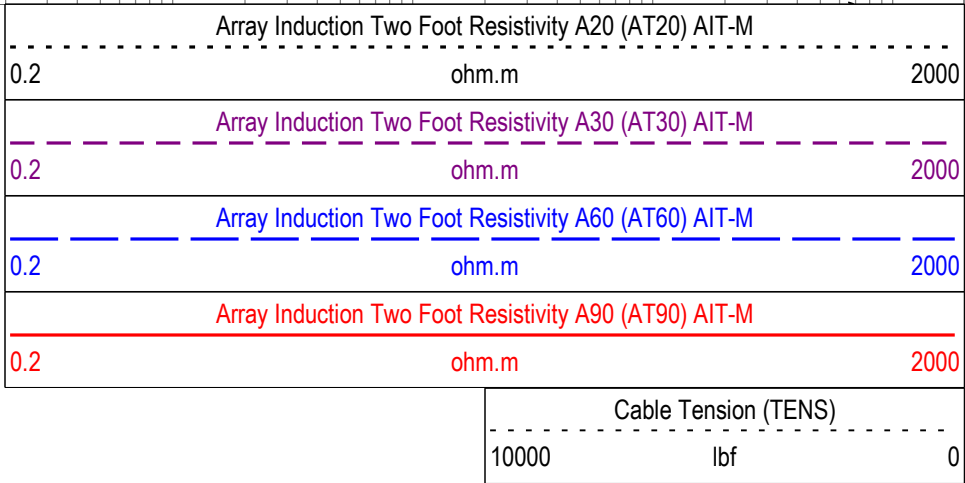
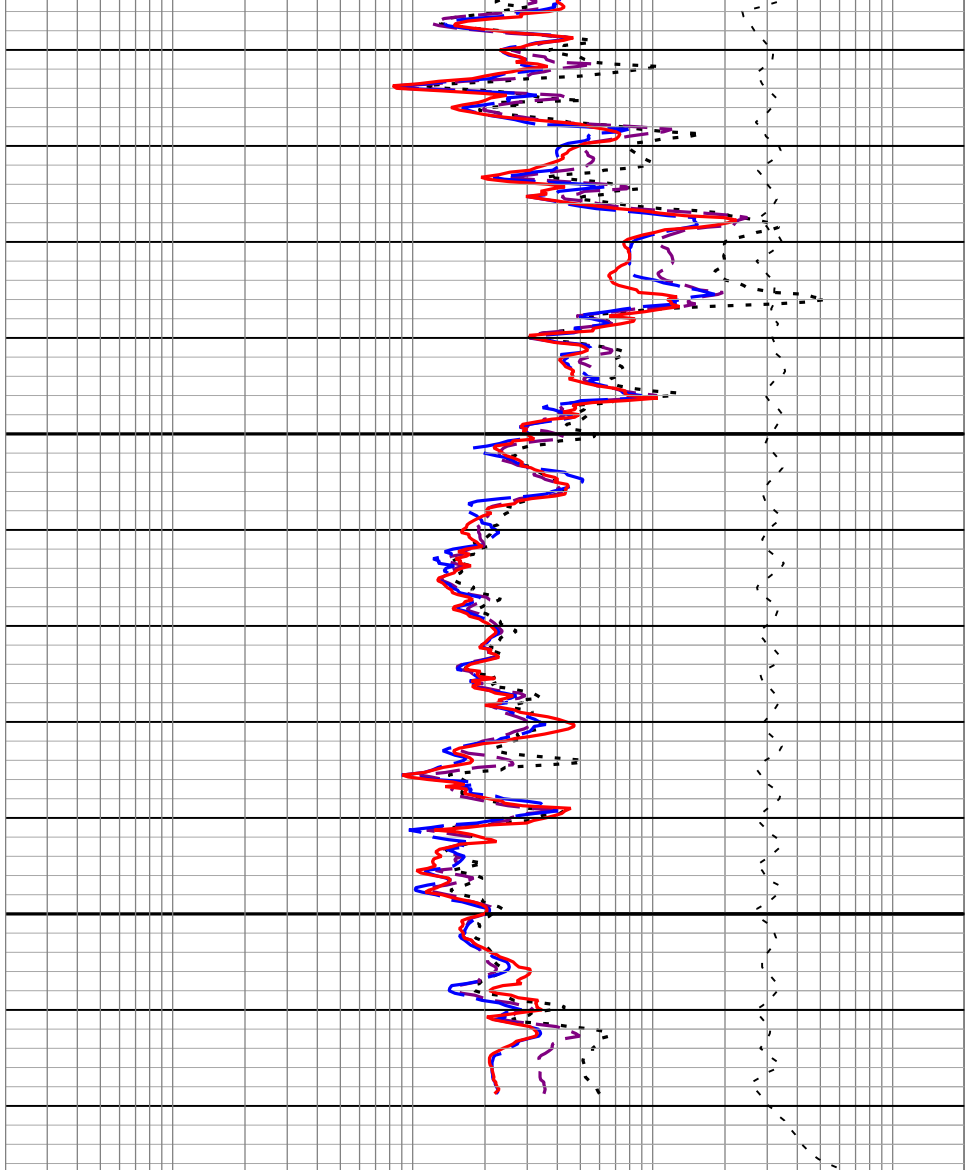
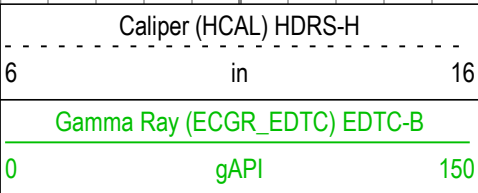
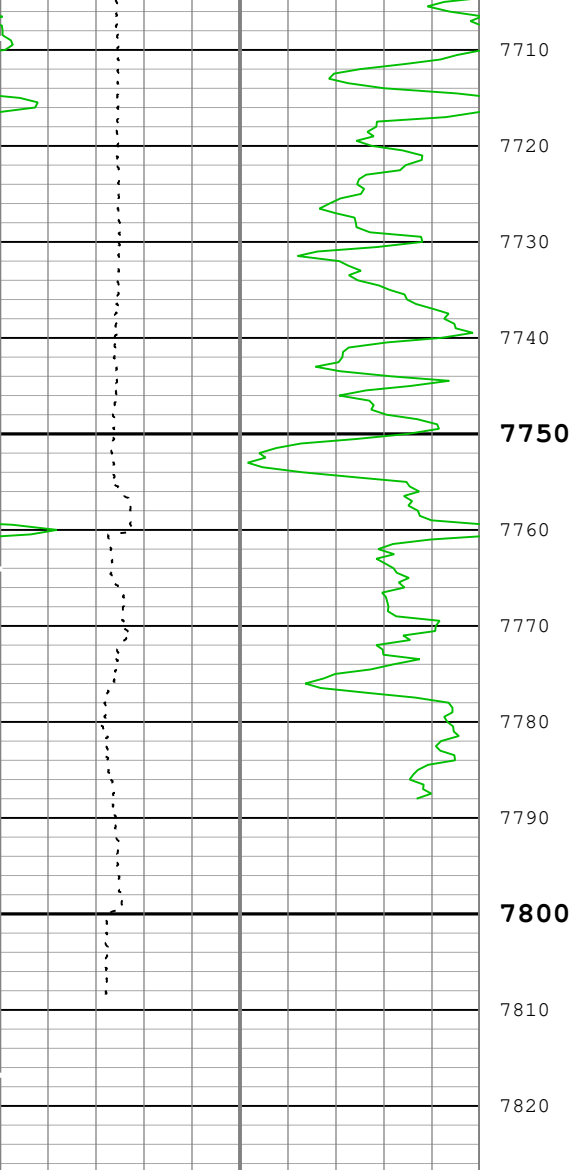












TIME_1900 - Time Marked every 60.00 (s)

Description: AIT Basic Log Two Format: Log (Induction-5) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Nov-2019

Channel Processing Parameters				
1A: Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ASTA	Array Induction Tool Standoff	AIT-M	1	in
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	212	degF

BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	1884	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	10	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Oil	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	22	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	5048	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	REMS(RT)	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
PDAT	Permanent Datum	WLSESSION	GL	
SHT	Surface Hole Temperature	Borehole	68	degF

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	1800	1877
BS	8.5	1877	7827
All depth are actual.			

Tool Control Parameters	
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1A: Parameters				
Parameter	Description	Tool	Value	Unit
HMCA_BOARD_TYPE	HMCA Board Type	HGNS-B	1	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

1A

2" Induction

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[3]:Up	Up	920.09 ft	7826.79 ft	24-Nov-2020 3:13:16 PM	24-Nov-2020 4:56:49 PM	ON	8.34 ft	No

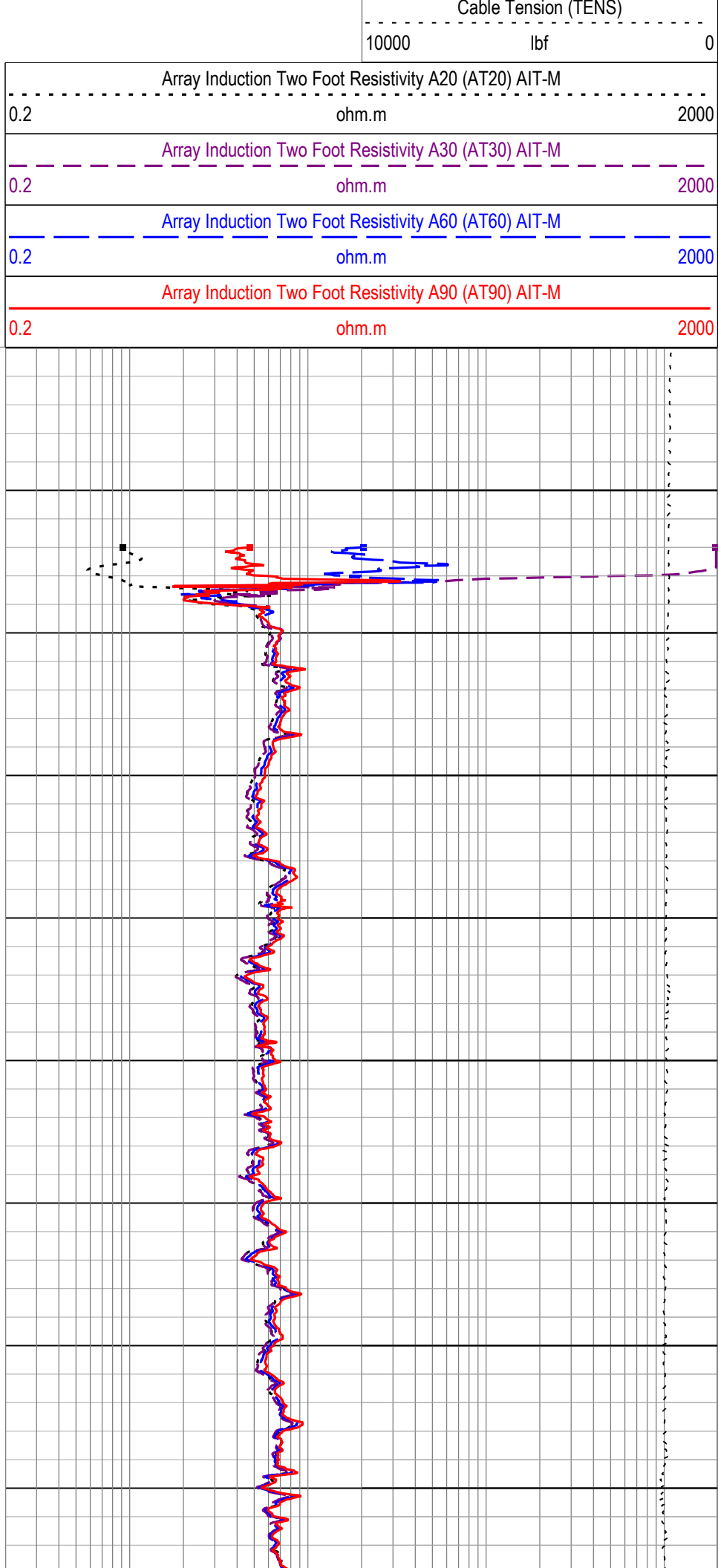
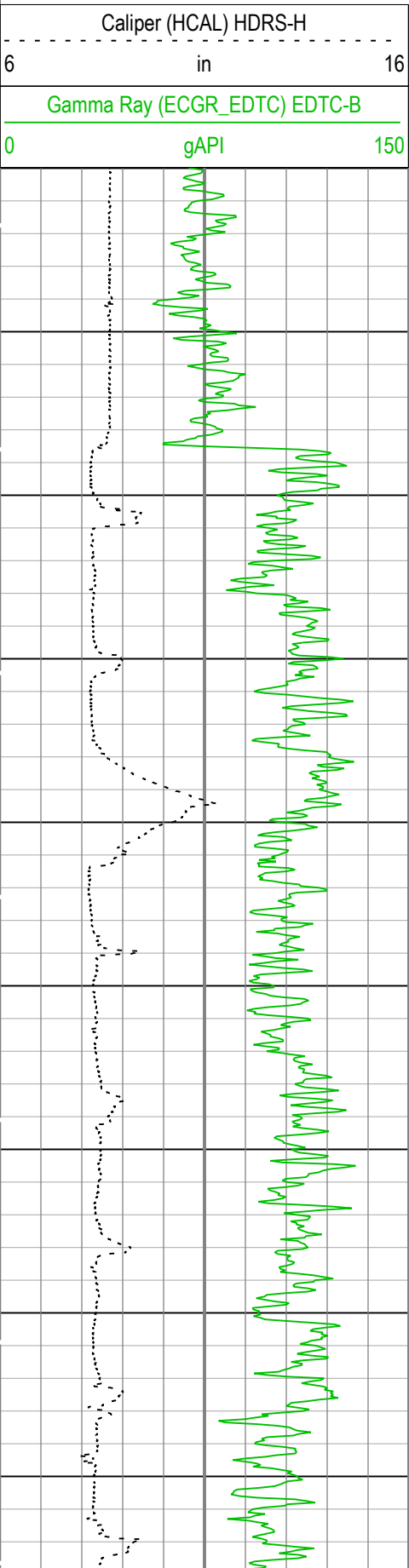
All depths are referenced to toolstring zero
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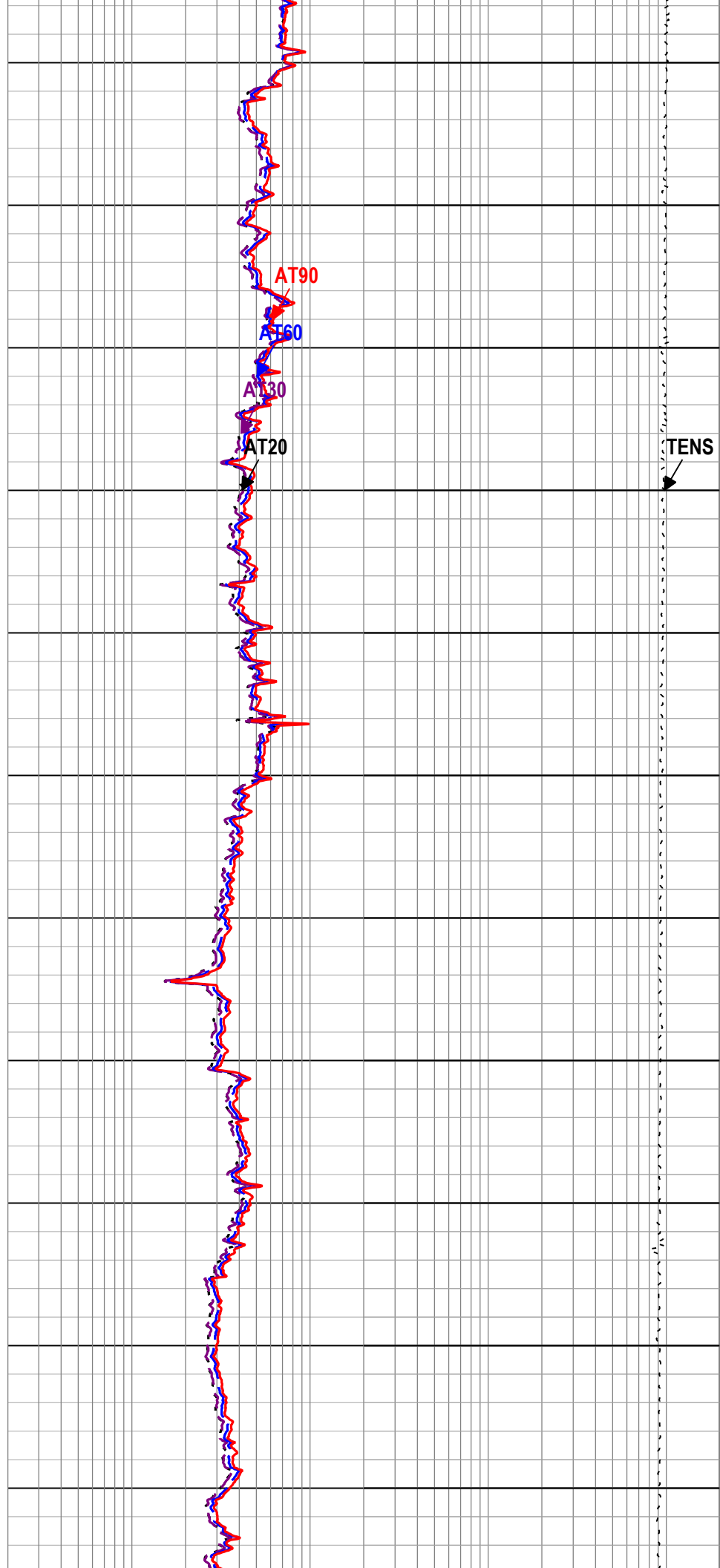
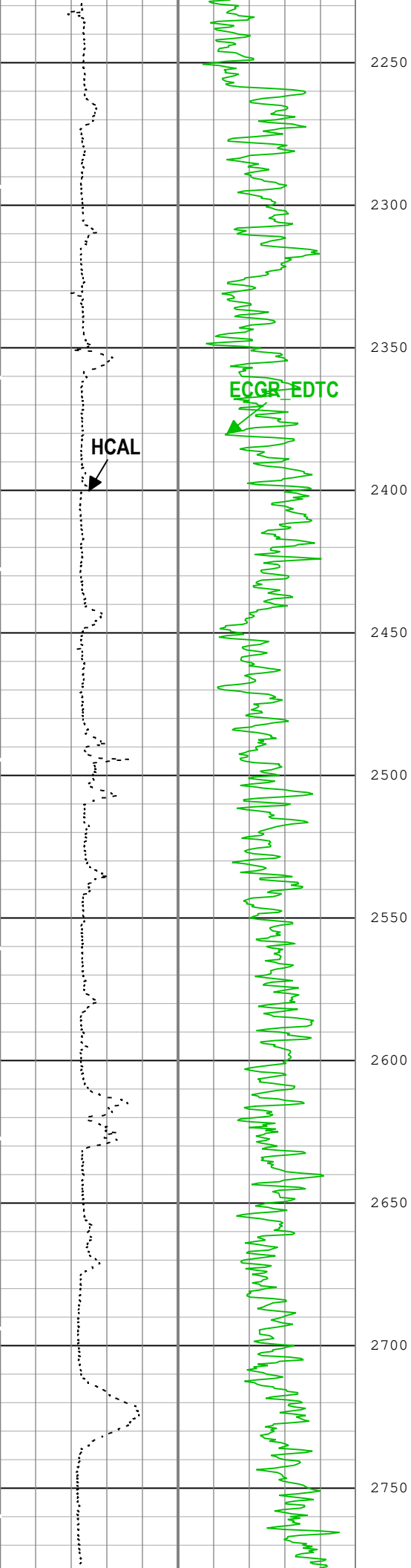
Log	Company:POCO Operating LLC Well:Brighton Lakes #20-17-1C D H 1A: Log[3]:Up:S006
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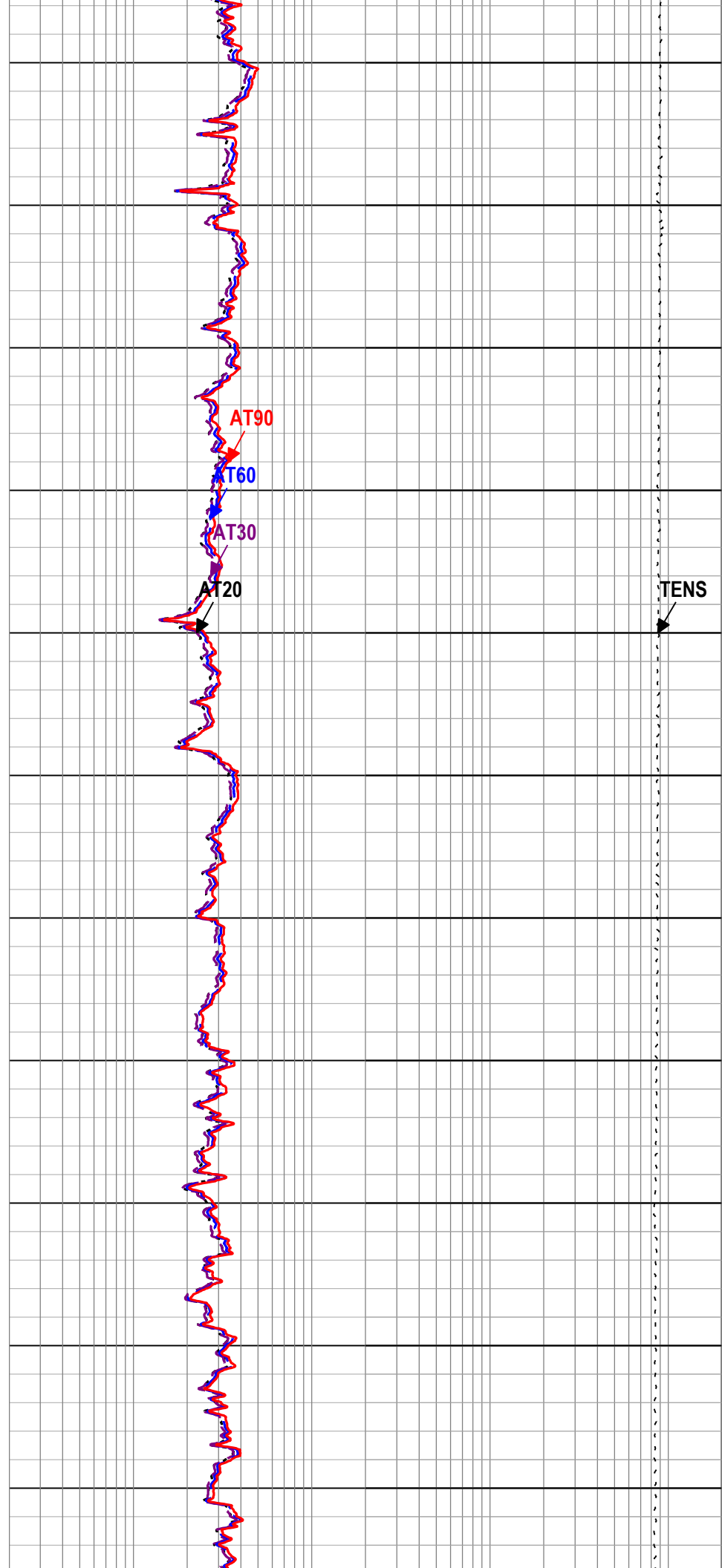
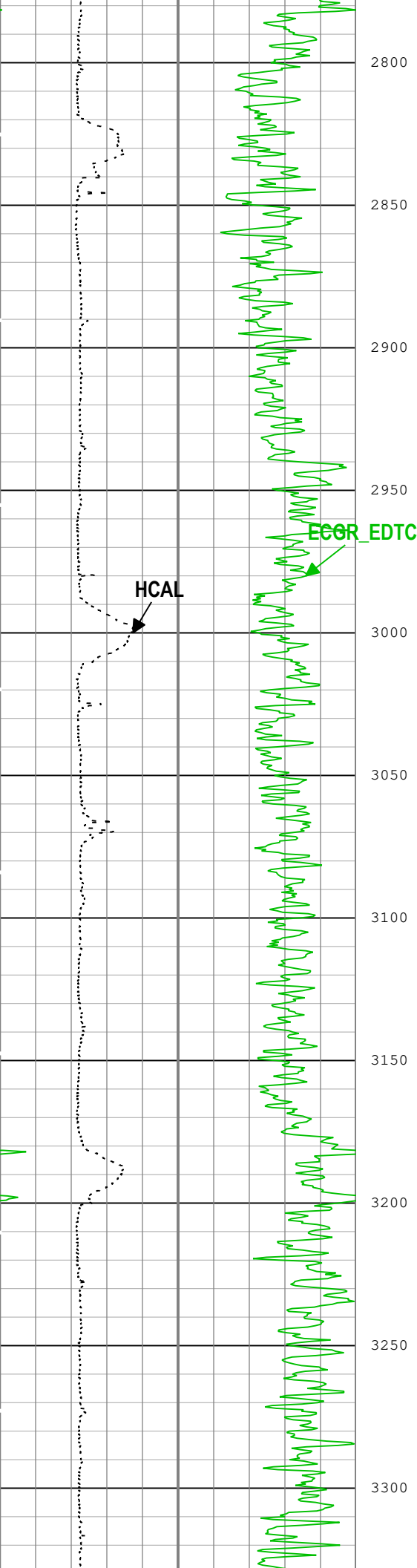
Description: AIT Basic Log Two Format: Log (Induction-5) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Nov-2020 10:00:00 AM

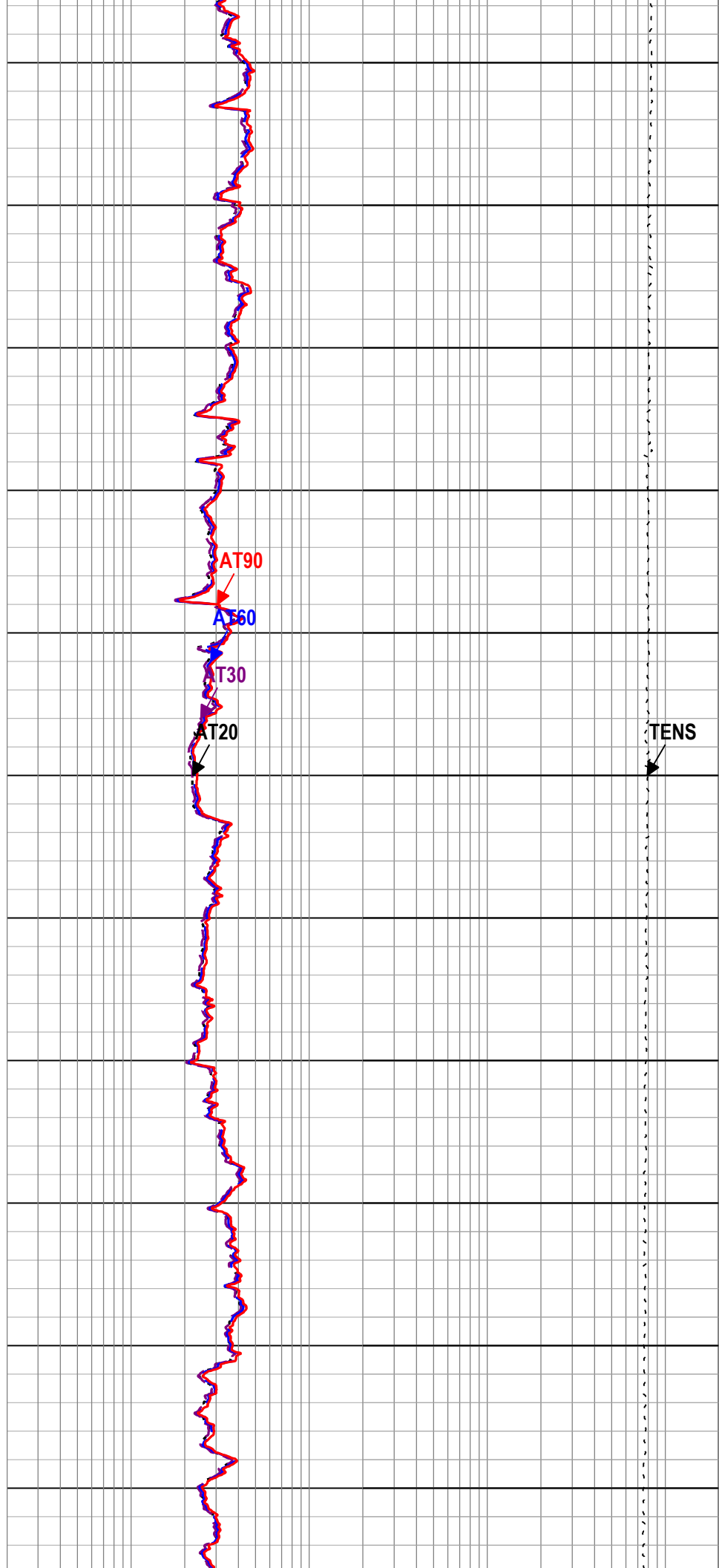
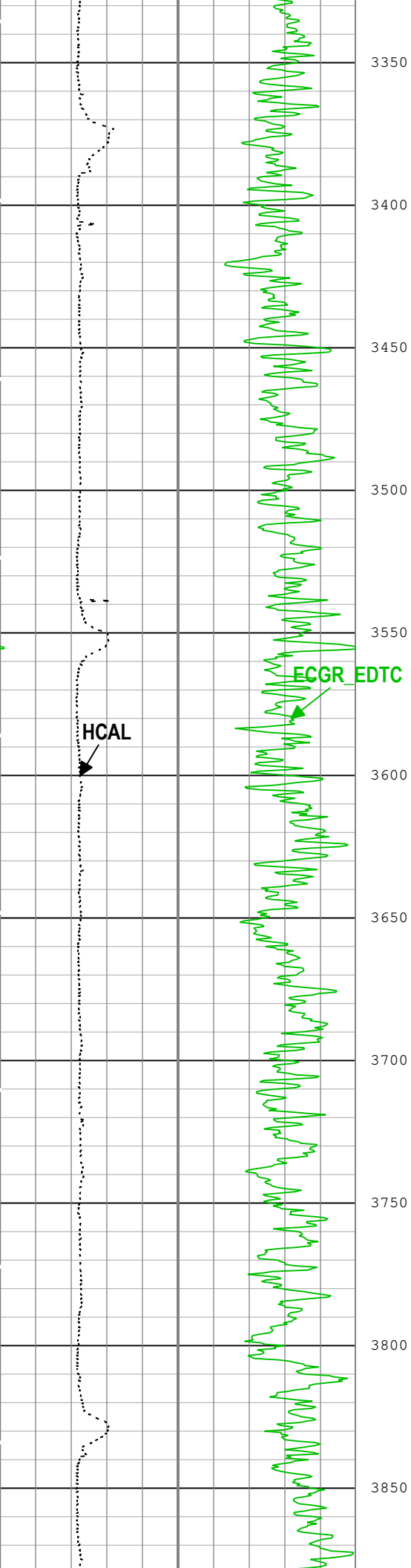
Channel	Source	Sampling
AT20	AIT-M:AMIS:AMIS	3in
AT30	AIT-M:AMIS:AMIS	3in
AT60	AIT-M:AMIS:AMIS	3in
AT90	AIT-M:AMIS:AMIS	3in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR	EDTC-B:EDTC-B:EDTC-B	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

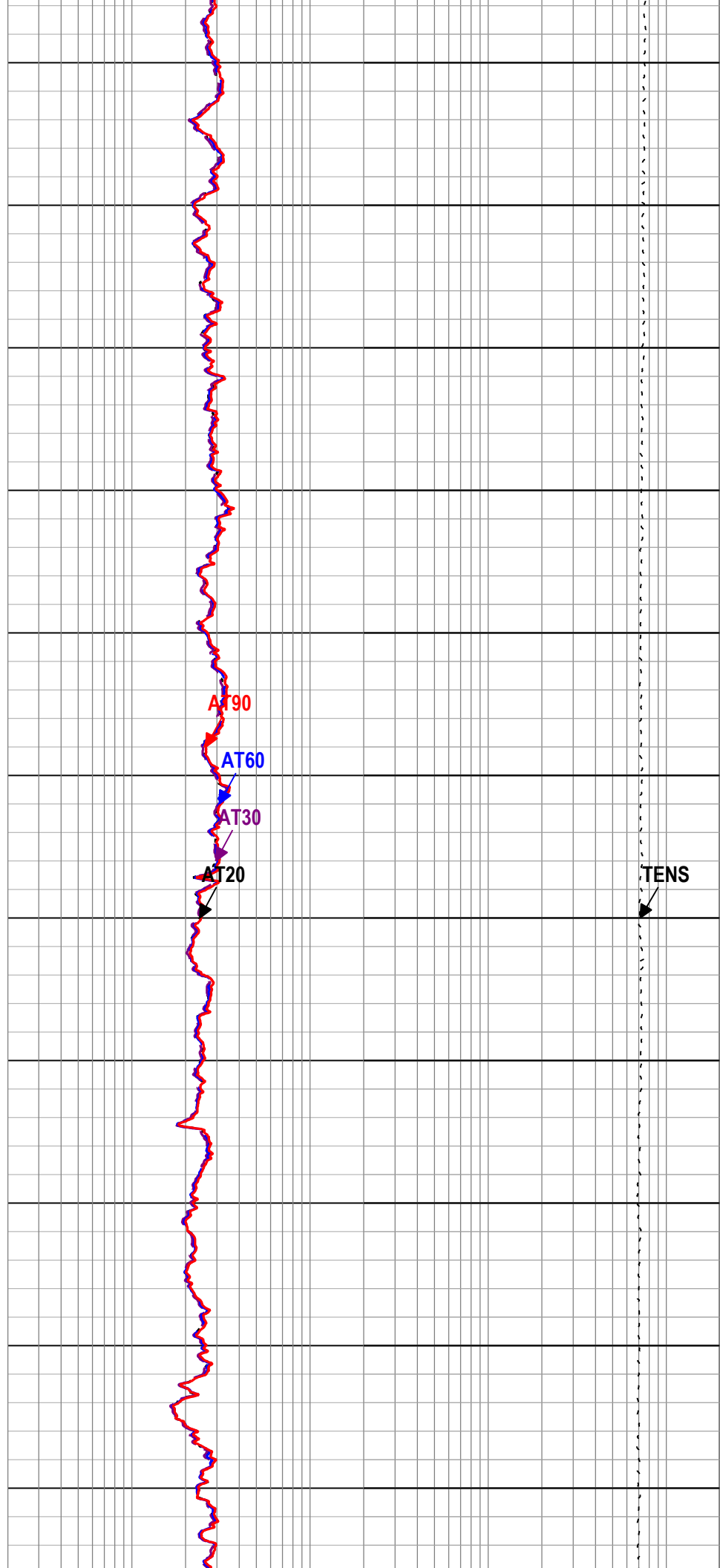
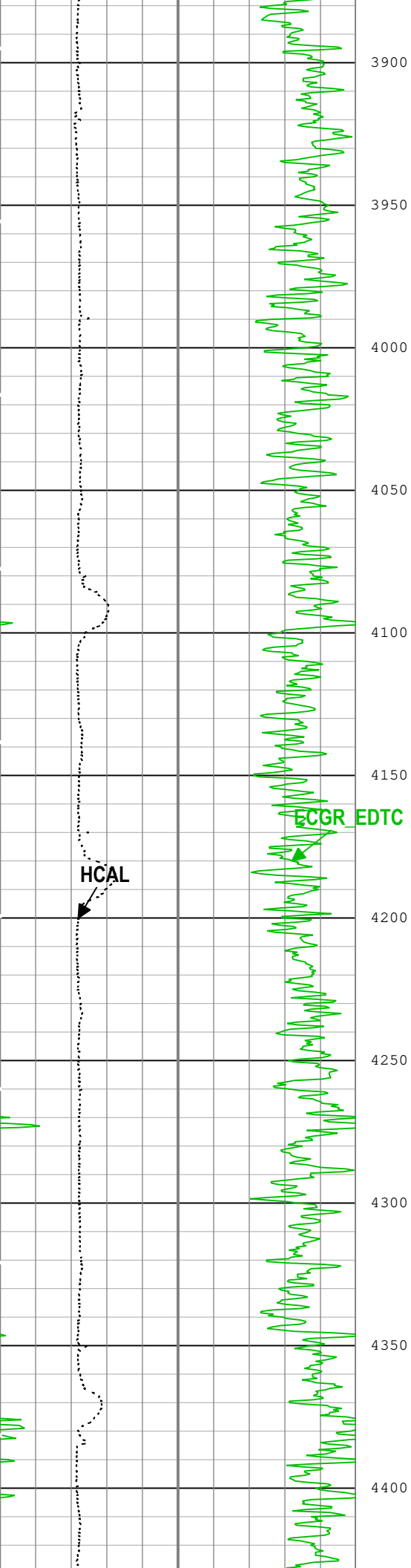
TIME_1900 - Time Marked every 60.00 (s)	
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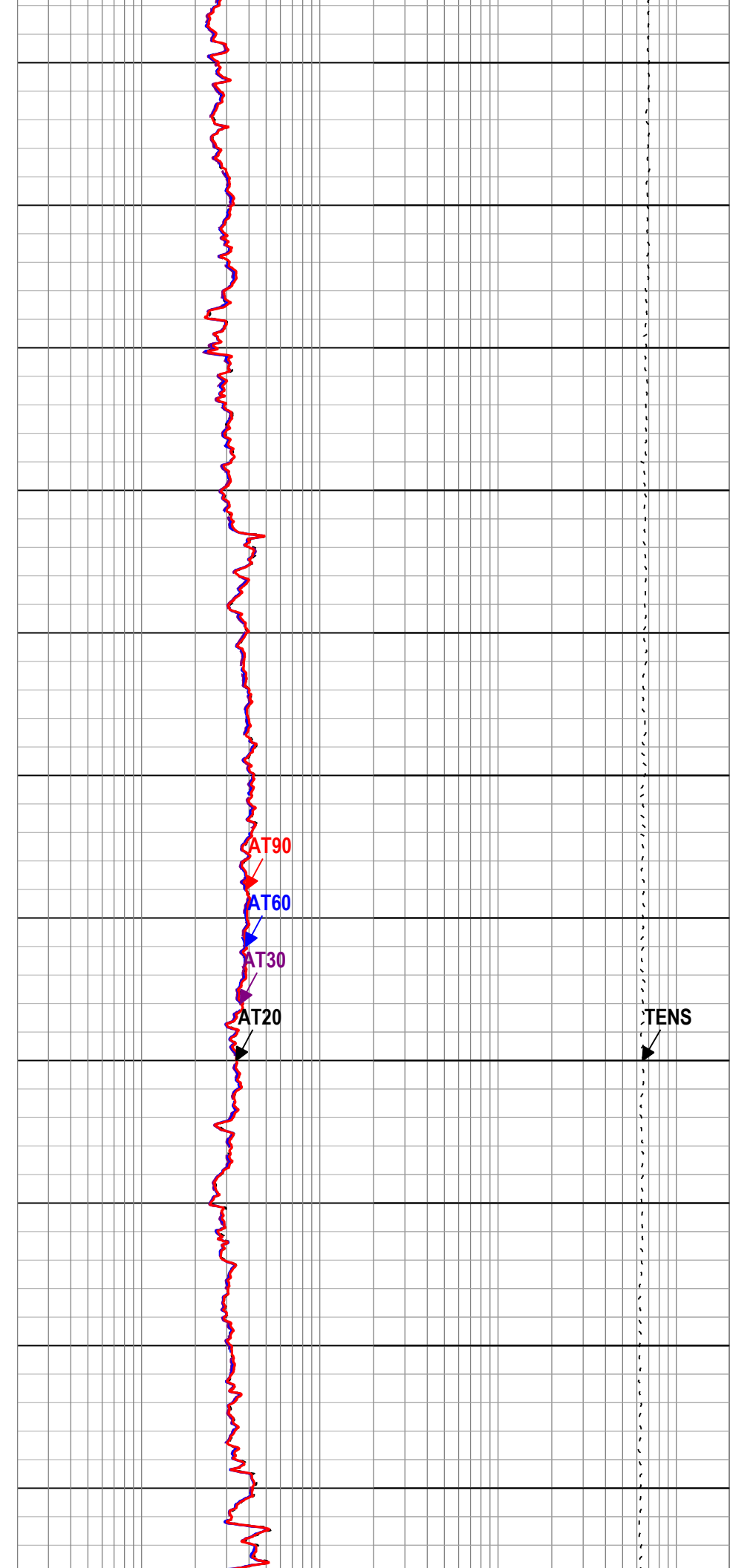
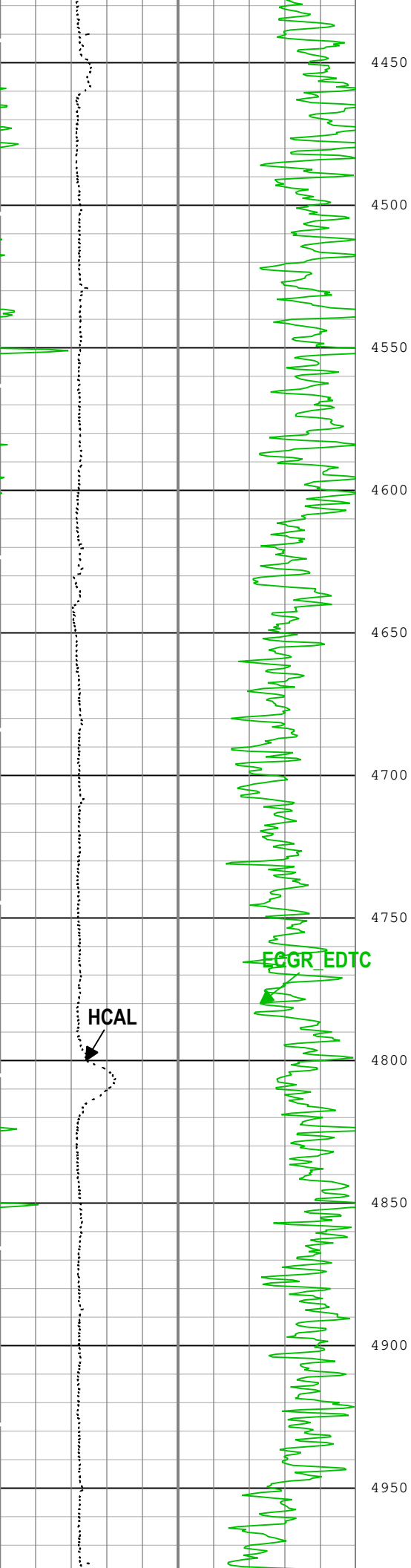


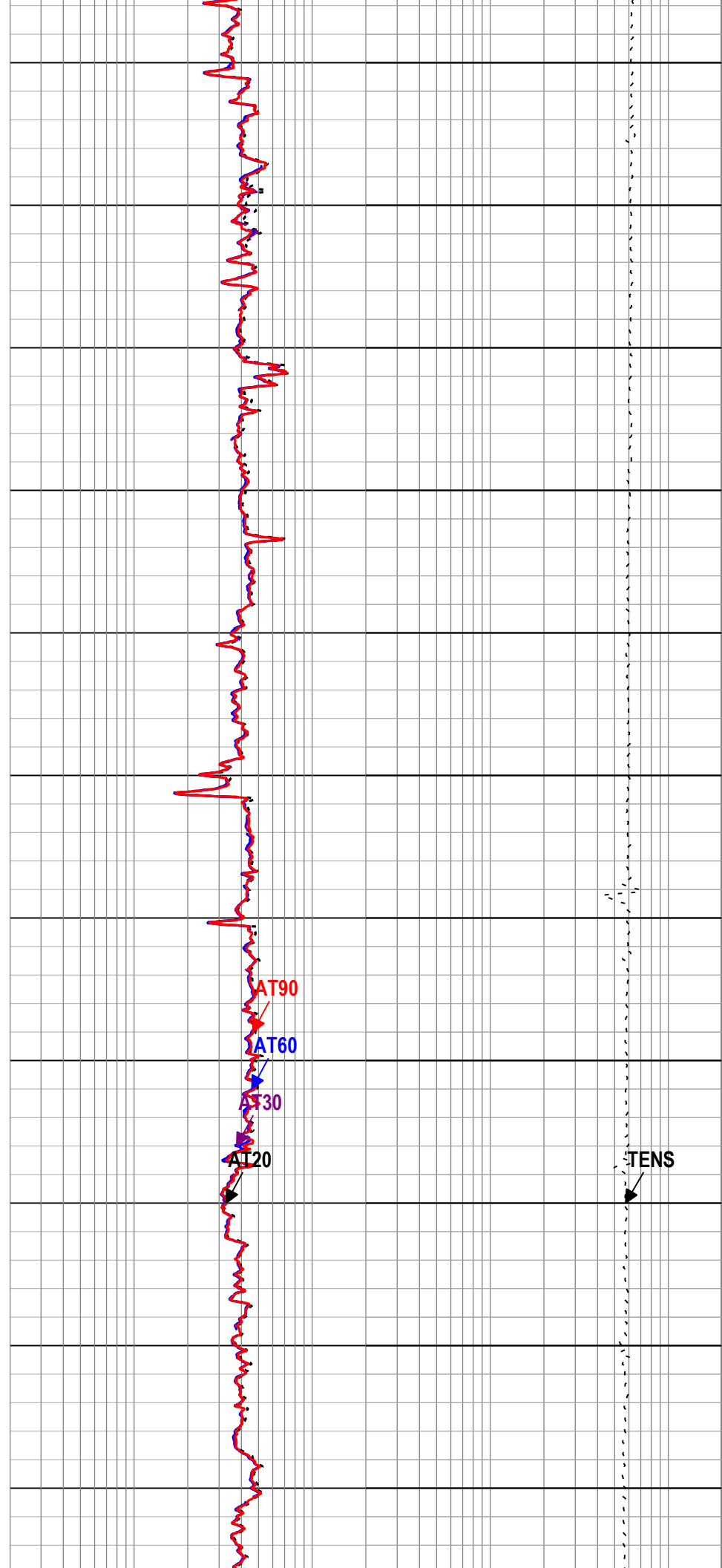
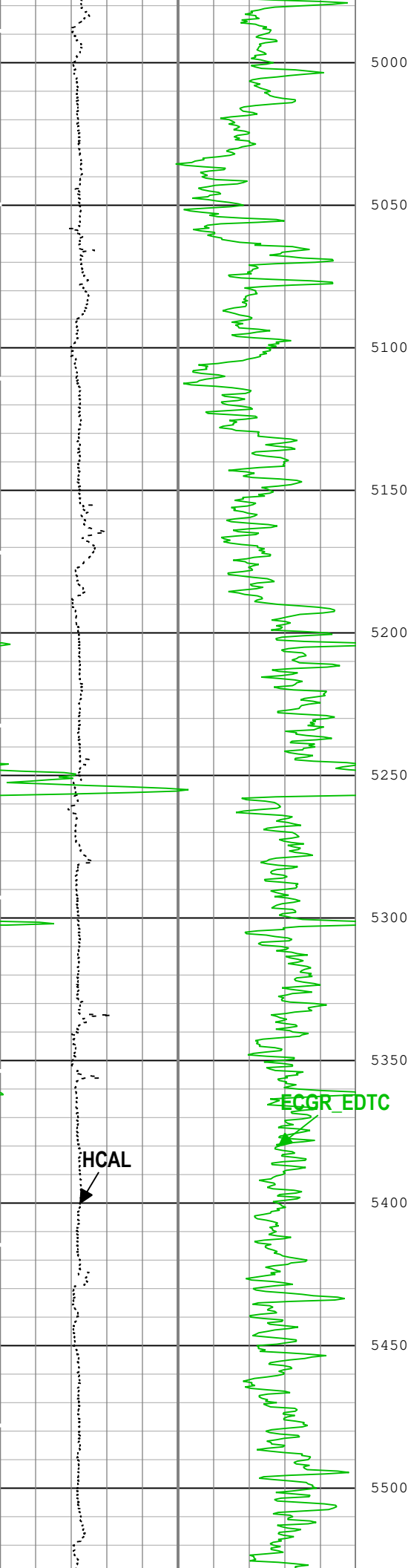


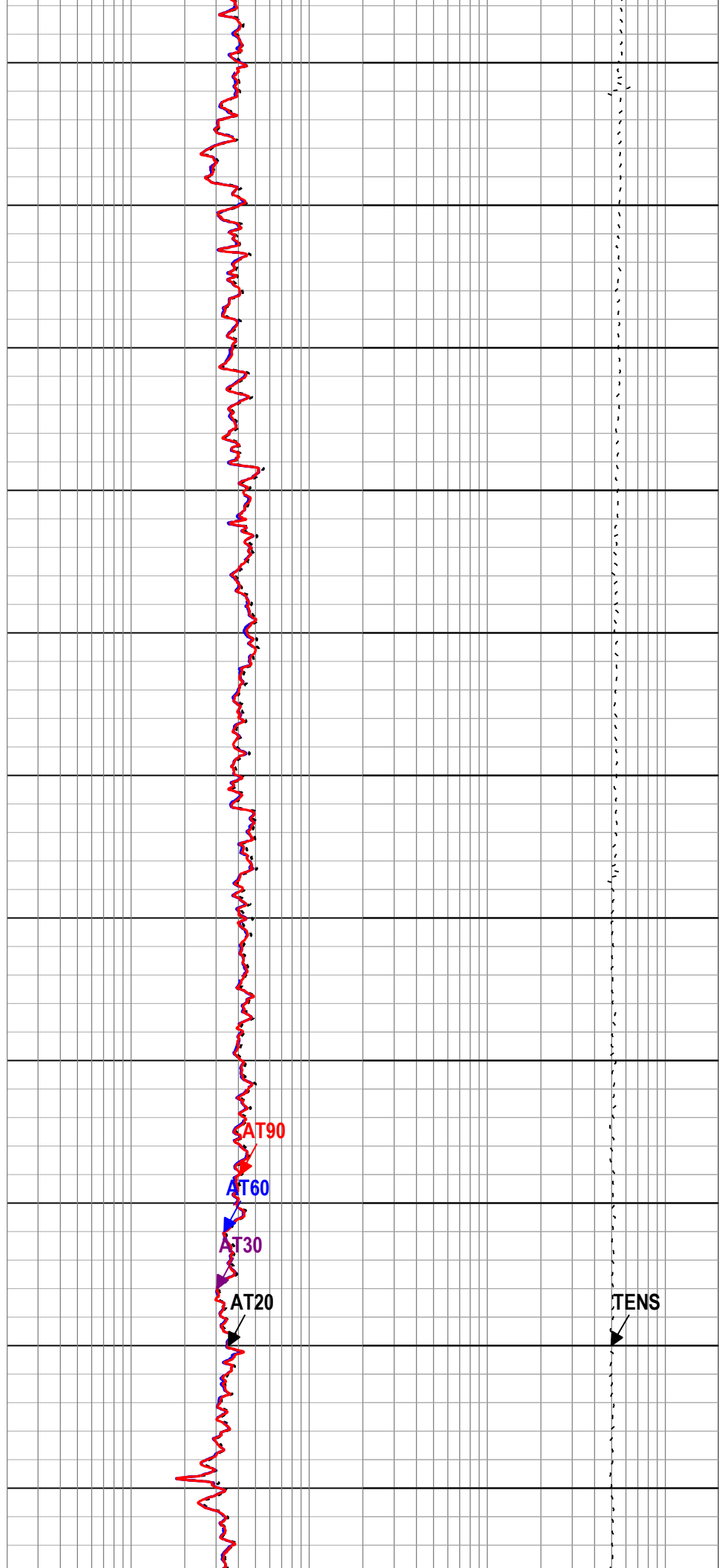
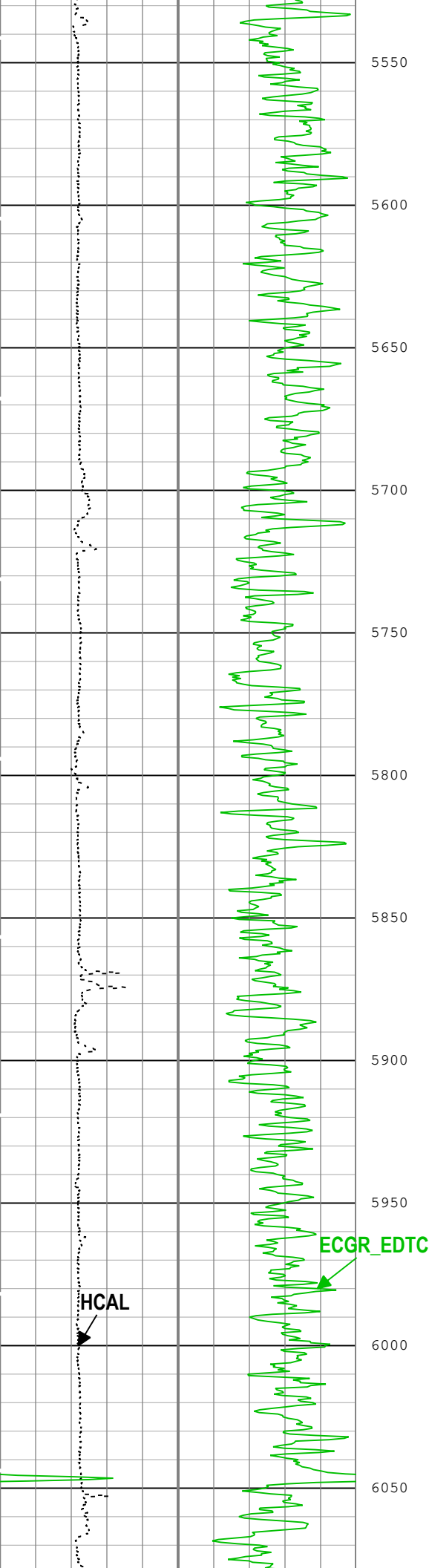


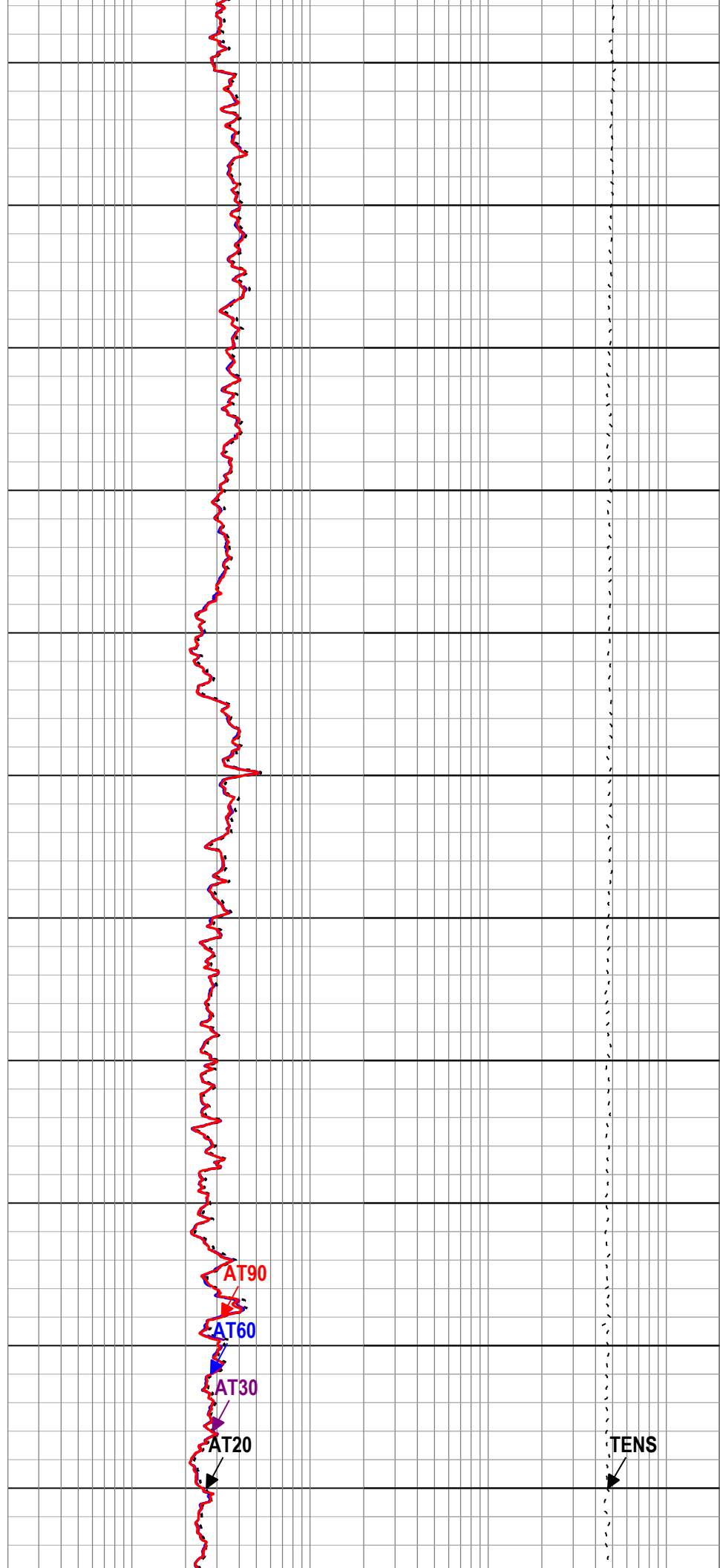
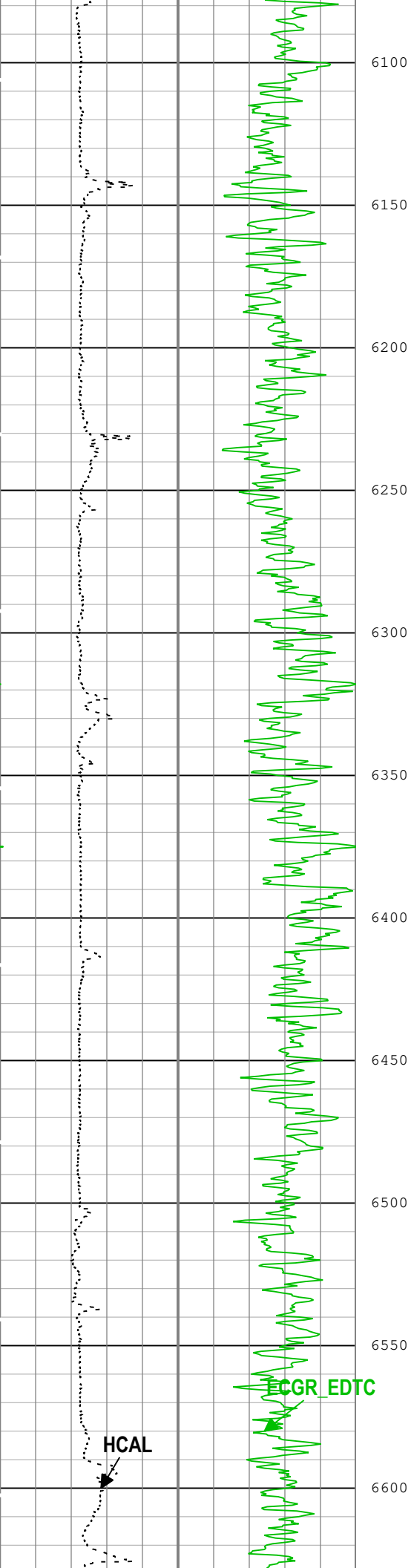


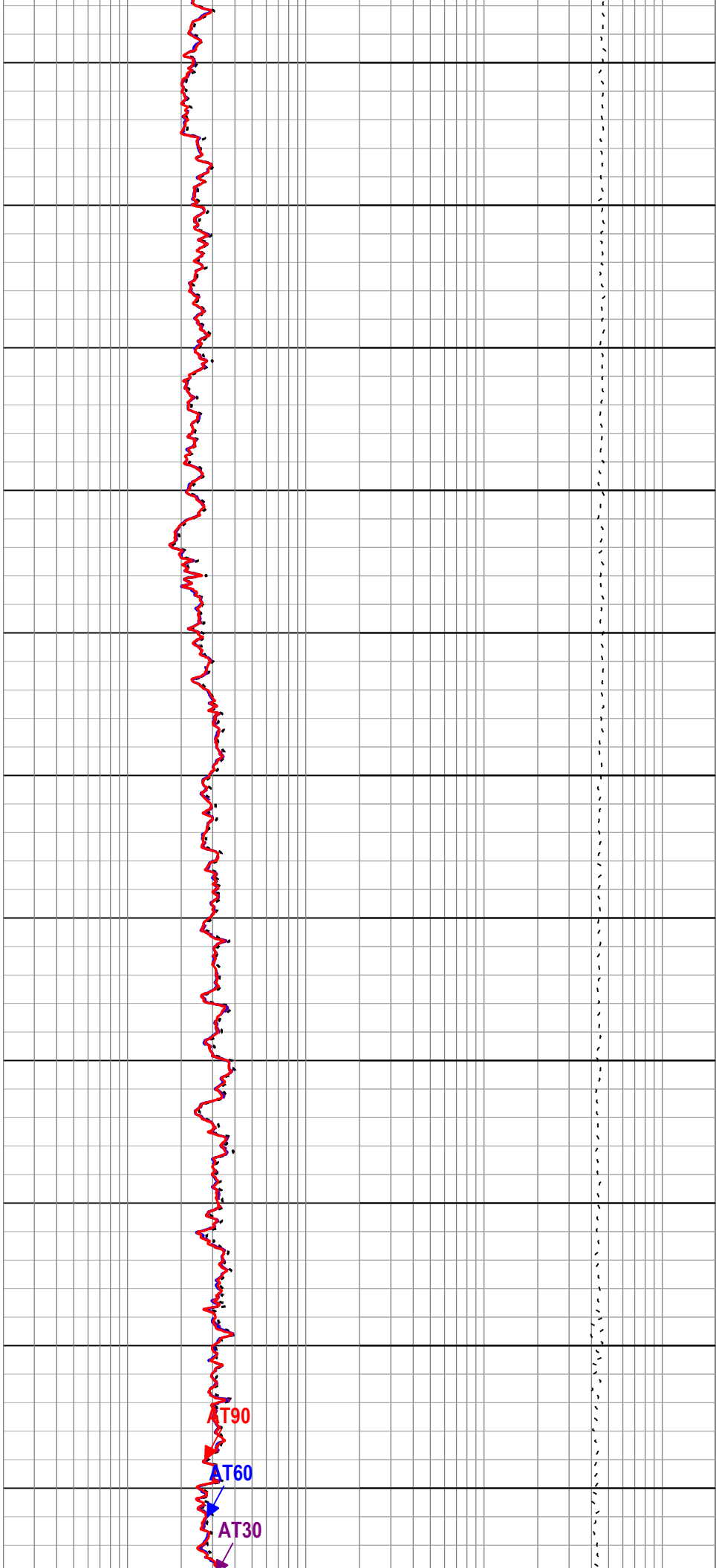
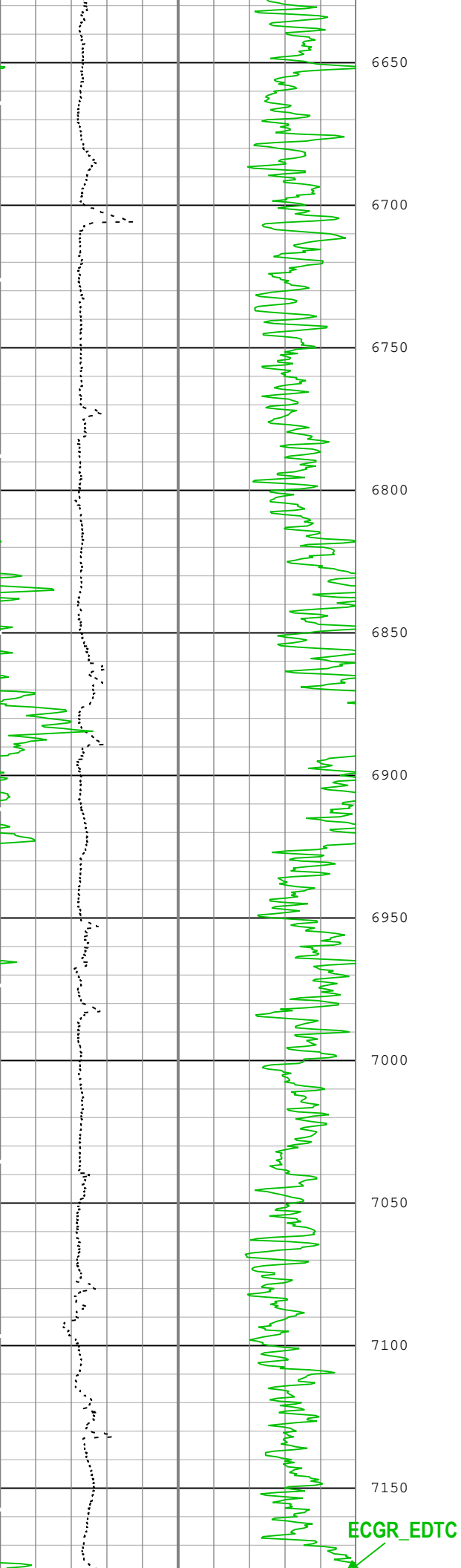


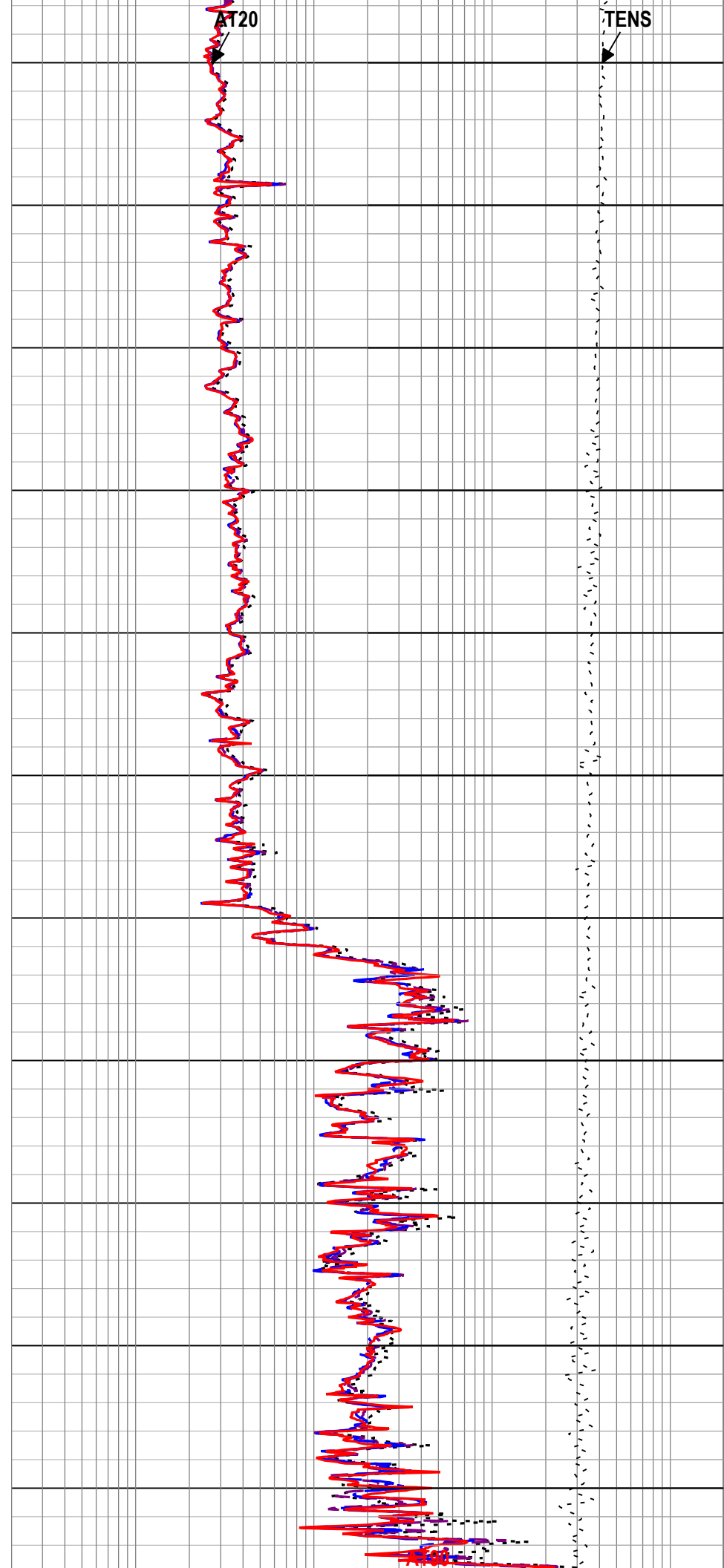
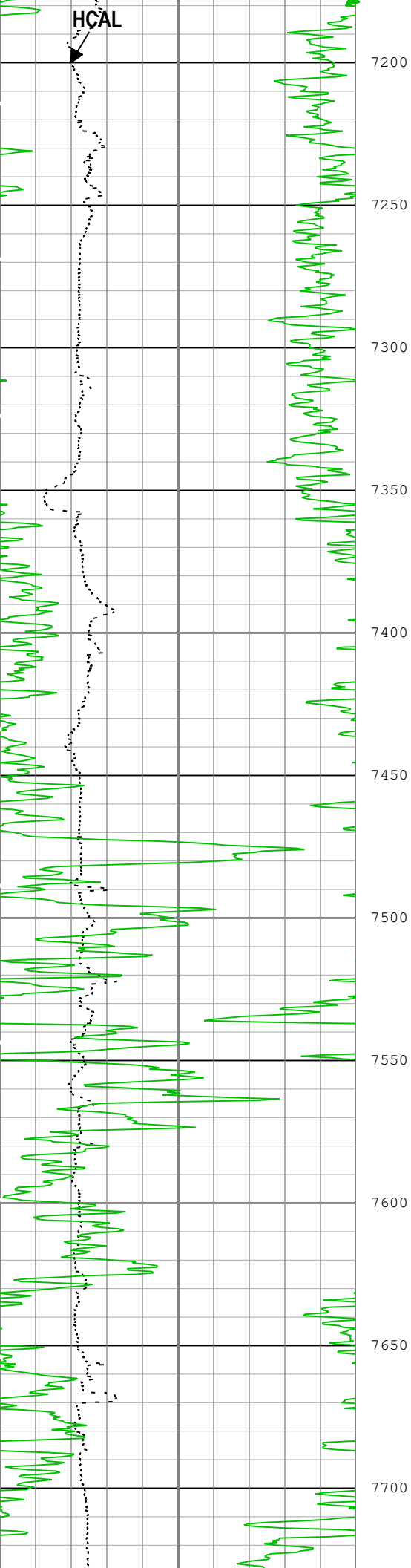


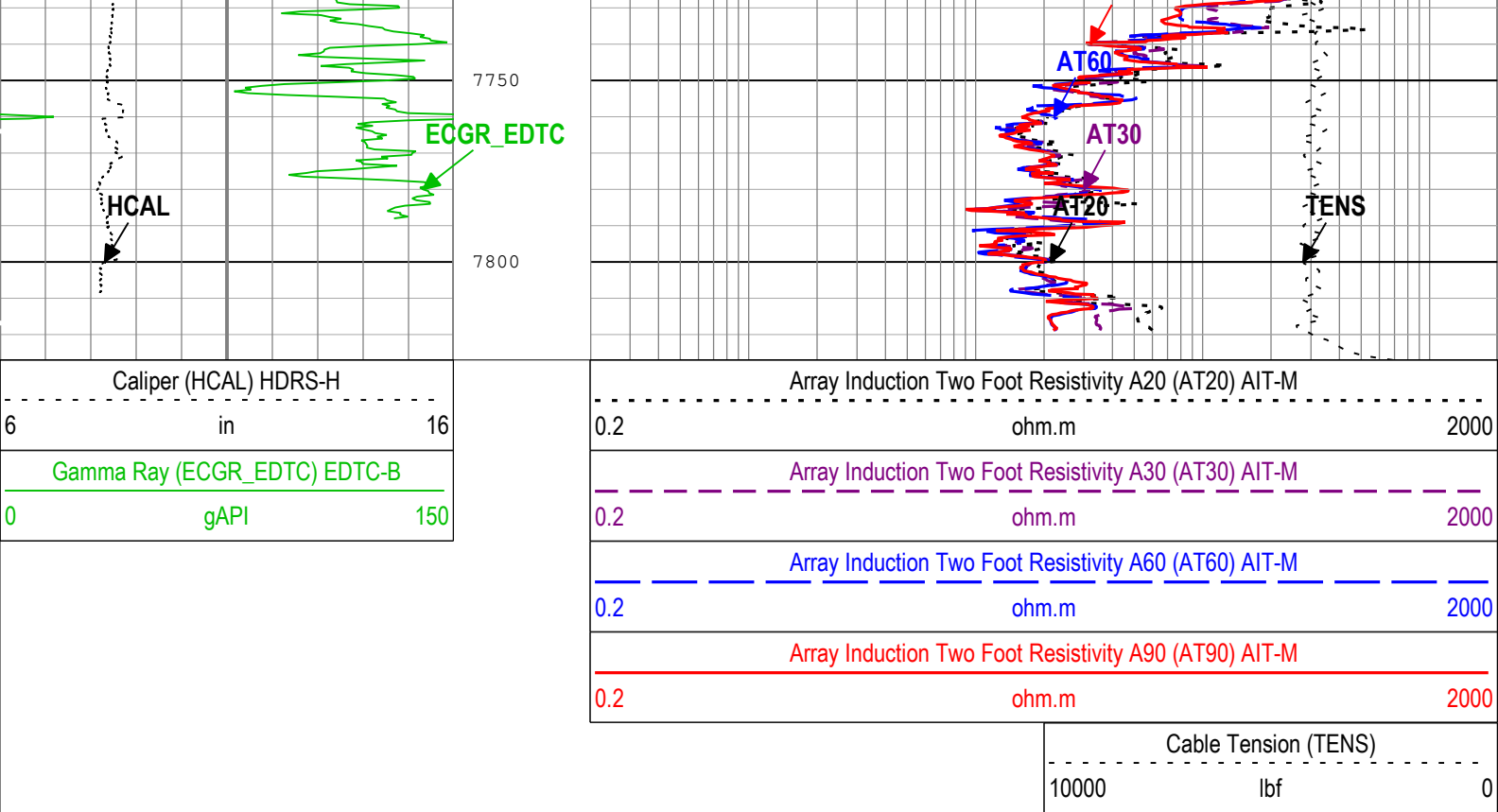












TIME_1900 - Time Marked every 60.00 (s)

Description: AIT Basic Log Two Format: Log (Induction-5) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Nov-2019

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ASTA	Array Induction Tool Standoff	AIT-M	1	in
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	212	degF
BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	1884	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	10	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Oil	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	22	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	5048	ft
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	REMS(RT)	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
PDAT	Permanent Datum	WLSESSION	GL	
SHT	Surface Hole Temperature	Borehole	68	degF

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
-----------	-------	--------------	-------------

BS	12.25	1800	1877
BS	8.5	1877	7827

All depth are actual.

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
HMCA_BOARD_TYPE	HMCA Board Type	HGNS-B	1	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

1A

Induction Repeat Analysis

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[2]:Up	Up	6914.42 ft	7366.13 ft	24-Nov-2020 3:01:29 PM	24-Nov-2020 3:09:32 PM	ON	6.11 ft	No
1A	Log[3]:Up	Up	920.09 ft	7826.79 ft	24-Nov-2020 3:13:16 PM	24-Nov-2020 4:56:49 PM	ON	8.34 ft	No

All depths are referenced to toolstring zero

Log

Company:POCO Operating LLC Well:Brighton Lakes #20-17-1C D H

1A: Log[3]:Up:S006

Description: AIT Basic Log Two Format: Log (Induction-5 RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Nov-2020 17:55:05

TIME_1900 - Time Marked every 60.00 (s)

—| IHV - Integrated Hole Volume every 10.00 (ft3)

—| IHV - Integrated Hole Volume every 100.00 (ft3)

—| ICV - Integrated Cement Volume every 10.00 (ft3)

—| ICV - Integrated Cement Volume every 100.00 (ft3)

Main To Repeat

Repeat To Main

Cable Tension (TENS)

10000 lbf 0

Main To Repeat

Repeat To Main

Array Induction Two Foot Resistivity A90 (AT90) AIT-M

0.2 ohm.m 2000

Main To Repeat

Repeat To Main

Array Induction Two Foot Resistivity A60 (AT60) AIT-M

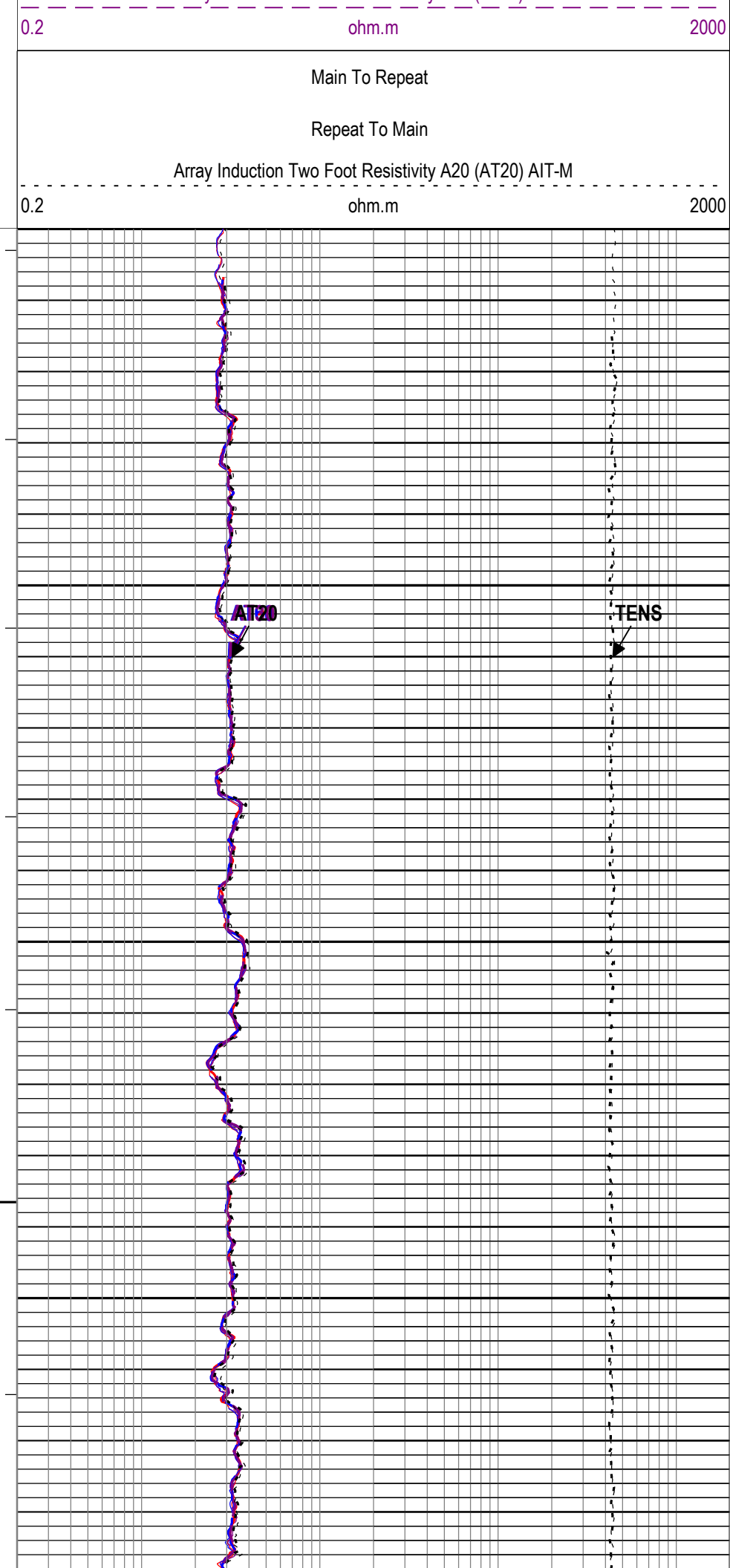
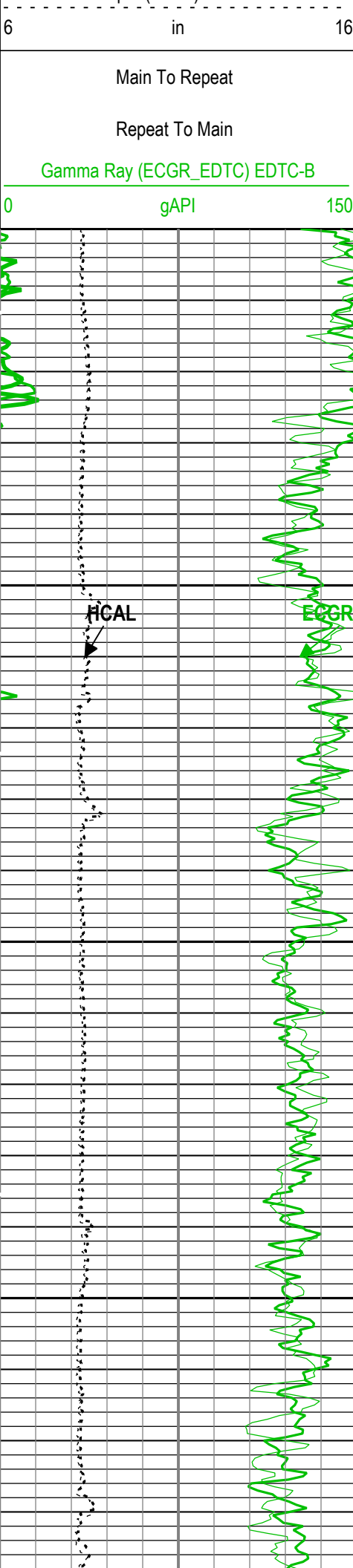
0.2 ohm.m 2000

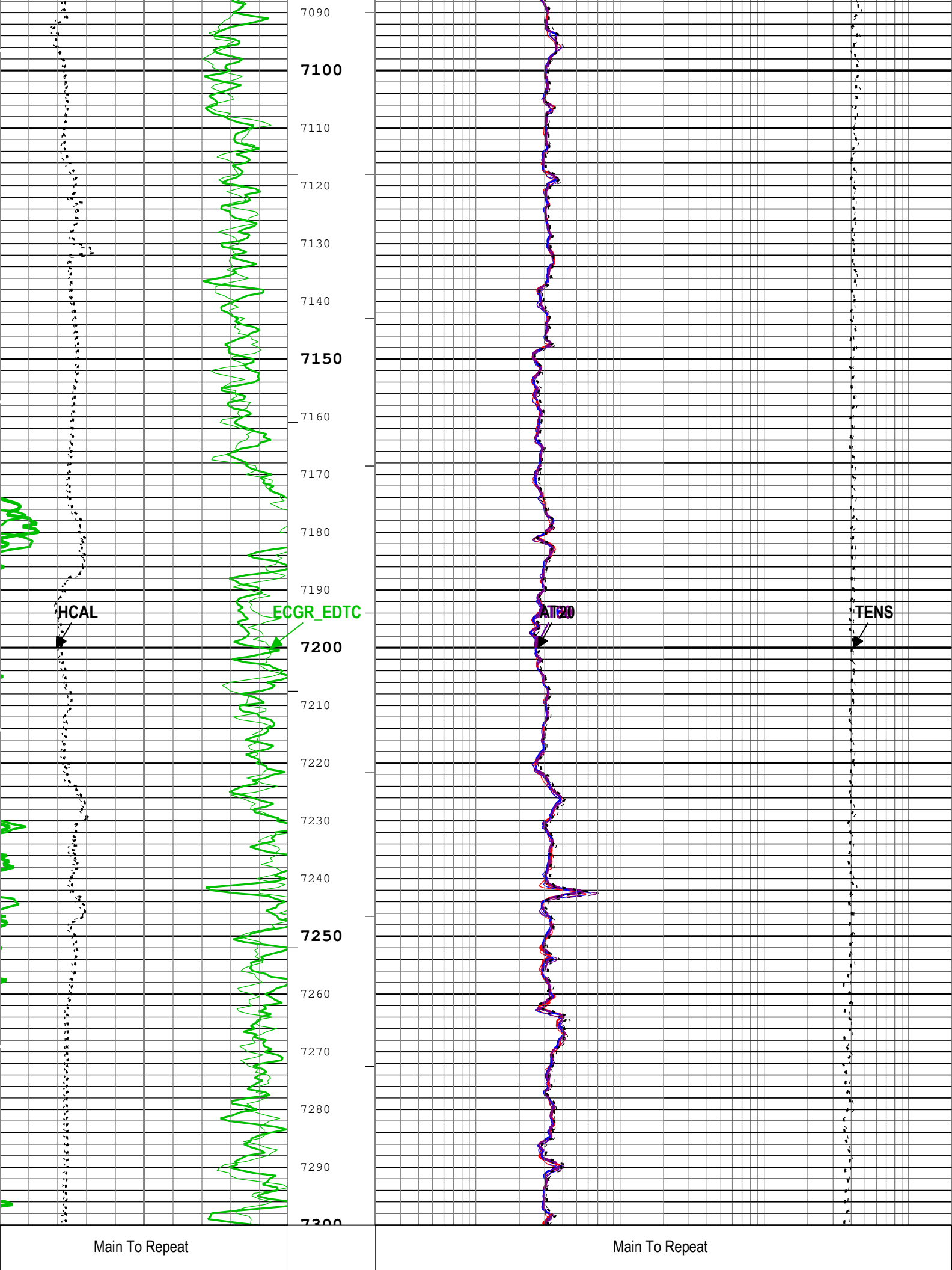
Main To Repeat

Repeat To Main

Caliper (HCAL) HDRS-H

Array Induction Two Foot Resistivity A30 (AT30) AIT-M





Repeat To Main		
Caliper (HCAL) HDRS-H		
6	in	16
Main To Repeat		
Repeat To Main		
Gamma Ray (ECGR_EDTC) EDTC-B		
0	gAPI	150

Repeat To Main		
Array Induction Two Foot Resistivity A90 (AT90) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A60 (AT60) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A30 (AT30) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A20 (AT20) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Cable Tension (TENS)		
10000	lbf	0

└─ ICV - Integrated Cement Volume every 100.00 (ft3)

└─ ICV - Integrated Cement Volume every 10.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

└─ IHV - Integrated Hole Volume every 100.00 (ft3)

└─ IHV - Integrated Hole Volume every 10.00 (ft3)

Description: AIT Basic Log Two Format: Log (Induction-5 RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Nov-2020 17:55:05

Channel Processing Parameters				
1A: Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ASTA	Array Induction Tool Standoff	AIT-M	1	in
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	212	degF
BS	Bit Size	WLSESSION	8.5	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	1884	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	10	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Oil	

EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	22	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	5048	ft
FCD	Future Casing (Outer) Diameter	WLSESSION	5.5	in
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	REMS(RT)	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
PDAT	Permanent Datum	WLSESSION	GL	
SHT	Surface Hole Temperature	Borehole	68	degF

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
HMCA_BOARD_TYPE	HMCA Board Type	HGNS-B	1	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

Calibration Report

AIT-M (Array Induction Tool - M) Calibration - Run 1A

Primary Equipment :

File code for AIT-MA Sonde Tool Element

AMIS

138

Auxiliary Equipment :

File code for AIT Bottom Nose Tool Element

AMRM

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM):

16:03:42 19-May-2020

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
Test Loop Gain - 0		Master	1.000	0.950	1.016	1.050	<div><div></div><div></div><div></div></div>
Test Loop Phase - 0	deg	Master	0	-3.000	-1.843	3.000	<div><div></div><div></div><div></div><div></div></div>
Test Loop Gain - 1		Master	1.000	0.950	1.015	1.050	<div><div></div><div></div><div></div></div>
Test Loop Phase - 1	deg	Master	0	-3.000	0.737	3.000	<div><div></div><div></div><div></div><div></div></div>
Test Loop Gain - 2		Master	1.000	0.950	1.022	1.050	<div><div></div><div></div><div></div></div>
Test Loop Phase - 2	deg	Master	0	-3.000	-0.068	3.000	<div><div></div><div></div><div></div><div></div></div>
Test Loop Gain - 3		Master	1.000	0.950	1.021	1.050	<div><div></div><div></div><div></div></div>
Test Loop Phase - 3	deg	Master	0	-3.000	-0.033	3.000	<div><div></div><div></div><div></div><div></div></div>
Test Loop Gain - 4		Master	1.000	0.950	1.000	1.050	<div><div></div><div></div><div></div></div>
Test Loop Phase - 4	deg	Master	0	-3.000	-0.043	3.000	<div><div></div><div></div><div></div><div></div></div>
Test Loop Gain - 5		Master	1.000	0.950	1.012	1.050	<div><div></div><div></div><div></div></div>
Test Loop Phase - 5	deg	Master	0	-3.000	-0.016	3.000	<div><div></div><div></div><div></div><div></div></div>
Test Loop Gain - 6		Master	1.000	0.950	1.022	1.050	<div><div></div><div></div><div></div></div>
Test Loop Phase - 6	deg	Master	0	-3.000	0.408	3.000	<div><div></div><div></div><div></div><div></div></div>
Test Loop Gain - 7		Master	1.000	0.950	1.028	1.050	<div><div></div><div></div><div></div></div>
Test Loop Phase - 7	deg	Master	0	-3.000	0.004	3.000	<div><div></div><div></div><div></div><div></div></div>

AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM):

16:03:42 19-May-2020

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-48.183	119.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 0		Master	-----	-2250.000	457.032	2250.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	160.077	204.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 1		Master	-----	-625.000	-136.689	625.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	109.784	156.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 2		Master	-----	-350.000	11.194	350.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	51.917	89.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 3		Master	-----	-250.000	-112.079	250.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	31.149	35.000	<div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 4		Master	-----	-63.000	-12.261	63.000	<div><div></div><div></div><div></div></div>

Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	11.682	24.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 5		Master	-----	-50.000	3.535	50.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.483	15.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 6		Master	-----	-30.000	-2.386	30.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-2.191	5.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 7		Master	-----	-30.000	8.741	30.000	<div><div></div><div></div><div></div><div></div><div></div></div>

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM):		16:03:42 19-May-2020					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Coarse Gain		Master	1.000	0.800	0.887	1.200	<div><div></div><div></div><div></div><div></div><div></div></div>
Fine Gain		Master	1.000	0.800	0.887	1.200	<div><div></div><div></div><div></div><div></div><div></div></div>

AIT Electronics Check - Thru Calibration Check

Master (EEPROM):		16:03:42 19-May-2020		Before (Measured):		14:38:46 24-Nov-2020	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 0	V	Master	-----	0.366	0.614	0.854	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	0.366	0.614	0.854	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	0.000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 0	deg	Master	-----	137.000	-173.940	-103.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	137.000	-169.055	-103.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	4.885	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 1	V	Master	-----	0.762	1.259	1.778	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	0.762	1.259	1.778	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	0.000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 1	deg	Master	-----	136.000	-175.041	-104.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	136.000	-170.156	-104.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	4.885	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 2	V	Master	-----	0.372	0.624	0.868	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	0.372	0.624	0.868	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	0.000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 2	deg	Master	-----	132.000	-178.692	-108.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	132.000	-173.806	-108.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	4.886	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 3	V	Master	-----	0.420	0.705	0.980	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	0.420	0.705	0.980	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	0.000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 3	deg	Master	-----	131.000	-179.475	-109.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	131.000	-174.590	-109.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	4.885	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 4	V	Master	-----	0.804	1.319	1.876	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	0.804	1.319	1.876	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	0.000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 4	deg	Master	-----	125.000	174.215	-115.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	125.000	179.107	-115.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	4.892	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 5	V	Master	-----	1.176	1.918	2.744	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	1.176	1.918	2.744	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	0.000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 5	deg	Master	-----	122.000	172.523	-118.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	122.000	177.416	-118.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	4.893	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 6	V	Master	-----	1.176	1.916	2.744	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	1.176	1.916	2.744	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	0.000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 6	deg	Master	-----	121.000	172.542	-119.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	121.000	177.439	-119.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	4.897	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 7	V	Master	-----	0.846	1.376	1.974	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	0.846	1.376	1.974	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	0.000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 7	deg	Master	-----	115.000	171.759	-125.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before	-----	115.000	176.676	-125.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	-----	-----	4.917	-----	<div><div></div><div></div><div></div><div></div><div></div></div>

SPA Zero	mV	Master Before Before-Master	-----	-50.000 -50.000 -----	-0.078 -0.086 -0.008	50.000 50.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Plus	mV	Master Before Before-Master	-----	941.000 941.000 -----	986.277 986.127 -0.150	1040.000 1040.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Zero	V	Master Before Before-Master	-----	-0.050 -0.050 -----	0.000 0.000 0.000	0.050 0.050 -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Plus	V	Master Before Before-Master	-----	0.870 0.870 -----	0.914 0.914 0.000	0.960 0.960 -----	<div><div></div><div></div><div></div><div></div><div></div></div>

EDTC-B (Enhanced Digital Telemetry Cartridge - Version B) Calibration - Run 1A

Primary Equipment :			
EDTC-B		EDTC-B	9316
Calibration Parameter :			
Plus Reference (Jig minus background reference)		165	

EDTC-B Accelerometer Calibration - EDTC-B Accelerometer Calibration

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
AZ Vertical Measurement - 0	ft/s2	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div><div></div><div></div></div>

EDTC-B Memory Data - EDTC-B Memory Data

Master (EEPROM):		14:33:43 24-Nov-2020					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Initial PMT HV	V	Master			1368.000		<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Serial Number		Master			1578		<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 0		Master	-----	-----	2.946E+000	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 1		Master	-----	-----	2.708E-004	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 2		Master	-----	-----	3.975E-007	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 3		Master	-----	-----	-5.664E-008	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 4		Master	-----	-----	1.326E-009	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 5		Master	-----	-----	-9.924E-012	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 6		Master	-----	-----	2.514E-014	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 7		Master	-----	-----	-5.486E-003	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 8		Master	-----	-----	4.410E-005	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 9		Master	-----	-----	-2.638E-008	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 10		Master	-----	-----	1.522E-010	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Accelerometer Coefficients - 11		Master	-----	-----	-1.560E-012	-----	<div><div></div><div></div><div></div><div></div><div></div></div>
Gamma-Ray Detector Serial Number		Master			79527		<div><div></div><div></div><div></div><div></div><div></div></div>

EDTC-B Gamma-Ray Calibration - Gamma Ray Coefficients

Before (Measured):		05:16:24 24-Nov-2020					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Gamma Ray Gain		Before	1.000	0.900	1.085	1.100	<div><div></div><div></div><div></div><div></div><div></div></div>

EDTC-B Gamma-Ray Calibration - Gamma Ray Accumulations

Before (Measured):		05:16:24 24-Nov-2020					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
RGR Zero Measurement	gAPI	Before		0	77.925	120.000	<div><div></div><div></div><div></div><div></div><div></div></div>
RGR Plus Measurement	gAPI	Before	165.000	150.000	152.067	180.000	<div><div></div><div></div><div></div><div></div><div></div></div>

Company:	POCO Operating LLC	Schlumberger
Well:	Brighton Lakes #20-17-1C D H	
Field:	Wattenberg	
County:	Adams	
State:	Colorado	
Platform Express		
Array Induction		
MD		