

Company: St. Croix Operating, Inc.

Well: Jack Creek #1

Field: Wildcat

County: Washington State: Colorado

Platform Express
Array Induction with 5" Logarithmic
with Linear Correlation

County: Washington
Field: Wildcat
Location: SENE
Well: Jack Creek #1
Company: St. Croix Operating, Inc.

Location:	SENE	Elev.:	K.B.	4603.00 ft
	2038 FNL 600 FEL		G.L.	4597.00 ft
	Lat/Long: 39.91161/-103.08922		D.F.	4603.00 ft
	Permanent Datum:	Ground Level	Elev.:	4597.00 f
Log Measured From:		Kelly Bushing	6.00 ft	above Perm.Datum
Drilling Measured From:		Kelly Bushing		
API Serial No.	Section:	Township:	Range:	
05-121-11078	4	2S	51W	

Logging Date	21-Jul-2018			
Run Number	1A			
Depth Driller	4273.00 ft			
Schlumberger Depth	4270.00 ft			
Bottom Log Interval	4270.00 ft			
Top Log Interval	0.00 ft			
Casing Driller Size @ Depth	8.625 in @ 470.00 ft			
Casing Schlumberger	475 ft			
Bit Size	7.875 in			
Type Fluid In Hole	Water			
Density	Viscosity	43 s		
Fluid Loss	PH	8.5		
MUD	Active Tank			
RM @ Meas Temp	0.2 ohm.m @ 68 degF			
RMF @ Meas Temp	0.15 ohm.m @ 68 degF			
RMC @ Meas Temp				
Source RMF	RMC	Pressed		
RM @ BHT	RMF @ BHT	0.11 @ 130 0.08 @ 130		
Max Recorded Temperatures	133 degF			
Circulation Stopped	Time	21-Jul-2018	11:30:00	
Logger on Bottom	Time	21-Jul-2018	16:14:00	
Unit Number	Location:	9108	Fort Morgan	
Recorded By	Evan Grzecki			
Witnessed By	Thomas			

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.

Contents

- 1. Header
- 2. Disclaimer
- 3. Contents
- 4. Well Sketch
- 5. Borehole Size/Casing/Tubing Record
- 6. Remarks and Equipment Summary
- 7. Depth Summary
- 8. 1A 2" Induction
 - 8.1 Integration Summary
 - 8.2 Software Version
 - 8.3 Composite Summary
 - 8.4 Log (Import of Kerr McGee 2in Induction)
 - 8.5 Parameter Listing
- 9. 1A 5" Induction
 - 9.1 Integration Summary
 - 9.2 Software Version
 - 9.3 Composite Summary

9.4 Log (EMD 5in Induction)

9.5 Parameter Listing

10. 1A 5" Induction

10.1 Composite Summary

10.2 Log (EMD 5in Induction RA)

11. Calibration Report

12. Tail

Well Sketch

Driller Depth

0.00 ft

470.00 ft

Casing 8.625in
24lbm/ft

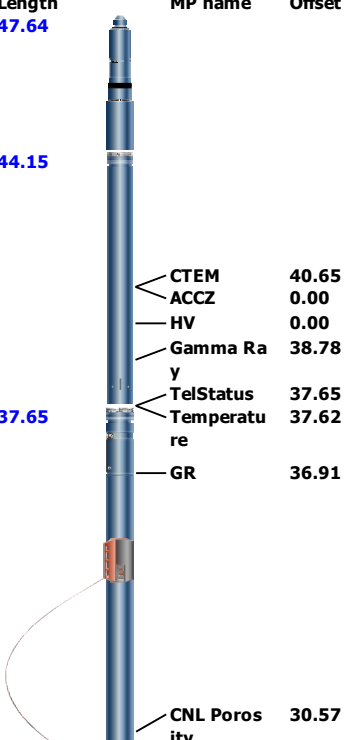
Open Hole 12.25in

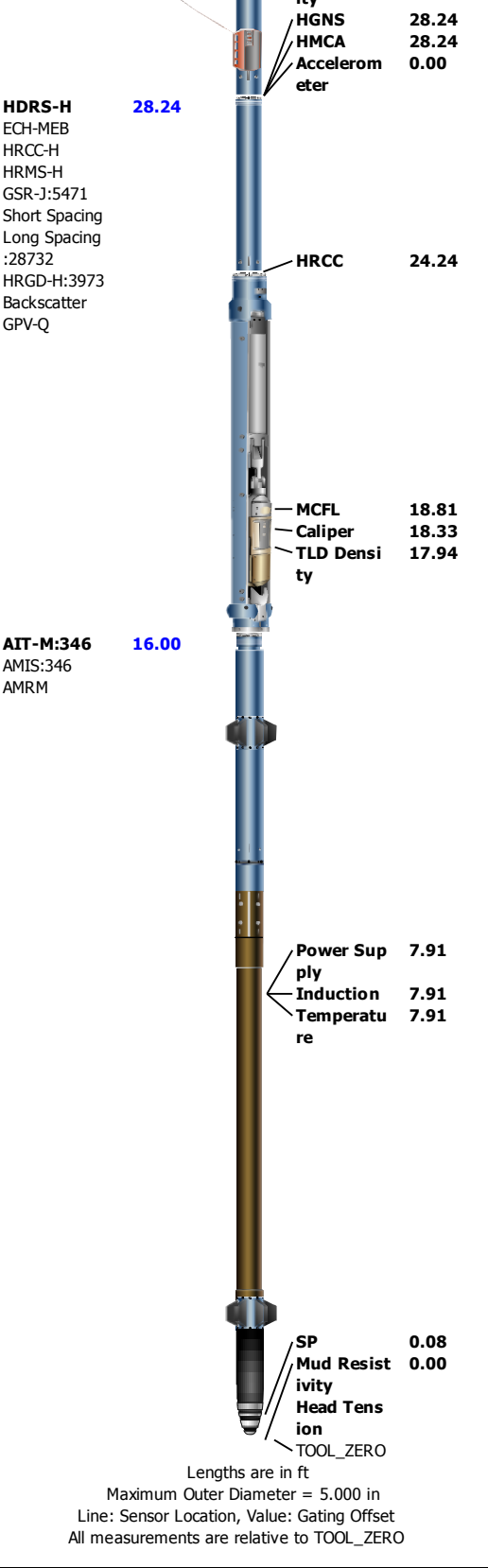


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	12.25	7.875				
Top Driller (ft)	0	470				
Top Logger (ft)	0	475				
Bottom Driller (ft)	470	4273				
Bottom Logger (ft)	475	4270				
Casing						
Size (in)	8.625					
Weight (lbm/ft)	24					
Inner Diameter (in)	8.097					
Grade	N/A					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	470					
Bottom Logger (ft)	475					

Remarks and Equipment Summary

1A: Toolstring				1A: Remarks
Equip name LEH-QT LEH-QT	Length 47.64	MP name	Offset	Thank you for choosing Schlumberger!
				Logs run for formation evaluation
				Toolstring run slick as per client request
				TD-4050ft -> MATRIX: Sandstone; MDEN: 2.65
				4050ft-3100ft -> MATRIX: Limestone; MDEN: 2.71 g/cc
				Logs correlated to down log
EDTC-B EDTH-B EDTG-A EDTC-B	44.15	CTEM ACCZ HV Gamma Ra y TelStatus Temperatu re GR	40.65 0.00 0.00 38.78 37.65 37.62 36.91	Crew: Gary Lapp, Claude Walz
HGNS-H HGNH NPV-N NSR-F:5070 HMCA-H HACCZ-H:416 8 HGNS-H	37.65			
		CNL Poros ity	30.57	



Depth Summary

	1A		
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Depth Measuring Device

Type	IDW-B		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0		
Wheel Correction 2	0		

Wheel Correction 2		0							
Tension Device									
Type	CMTD-B/A								
Serial Number									
Calibration Date									
Calibrator Serial Number									
Number of Calibration Points	0								
Logging Cable									
Type	7-46NT-XS								
Serial Number									
Length	24000.00 ft								
Conveyance Type	Wireline								
Rig Type	Drilling Rig								
1A:Depth Control Parameters					Depth Control Remarks				
Log Sequence	First Log In the Well								
Rig Up Length At Surface									
Rig Up Length At Bottom									
Rig Up Length Correction									
Stretch Correction									
Tool Zero Check At Surface									
1A									
2" Induction									
Integration Summary									
Output Channel(s)	Output Description			Input Parameter			Output Value		Unit
ICV	Integrated Cement Volume			GCSE_UP_PASS, FCD			919.42		ft3
Software Version									
Acquisition System						Version			
Maxwell 2018 SP1						8.1.99839.3100			
Application Patch						Wireline_Hotfix-Mandatory-2018SP1_8.1.102865			
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[6]:Up	Up	43.14 ft	4281.79 ft	21-Jul-2018 4:14:35 PM	21-Jul-2018 5:28:06 PM	ON	2.08 ft	No
All depths are referenced to toolstring zero									
Log					Company:St. Croix Operating, Inc.			Well:Jack Creek #1	
1A: Log[6]:Up:S005									
Description: AIT Basic Log Two Format: Log (Import of Kerr McGee 2in Induction) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured									
Depth Creation Date: 21-Jul-2018 18:00:17									
Channel	Source	Sampling							
AT10	AIT-M:AMIS:AMIS	3in							
AT60	AIT-M:AMIS:AMIS	3in							
ATCO60	AIT-M:AMIS:AMIS	3in							
CALI	HDRS-H:HRCC-H:HRCC-H	1in							
GR	EDTC-B:EDTC-B:EDTC-B	6in							
ICV	Borehole	6in - RT							
SP	AIT-M:AMIS:AMIS	6in							

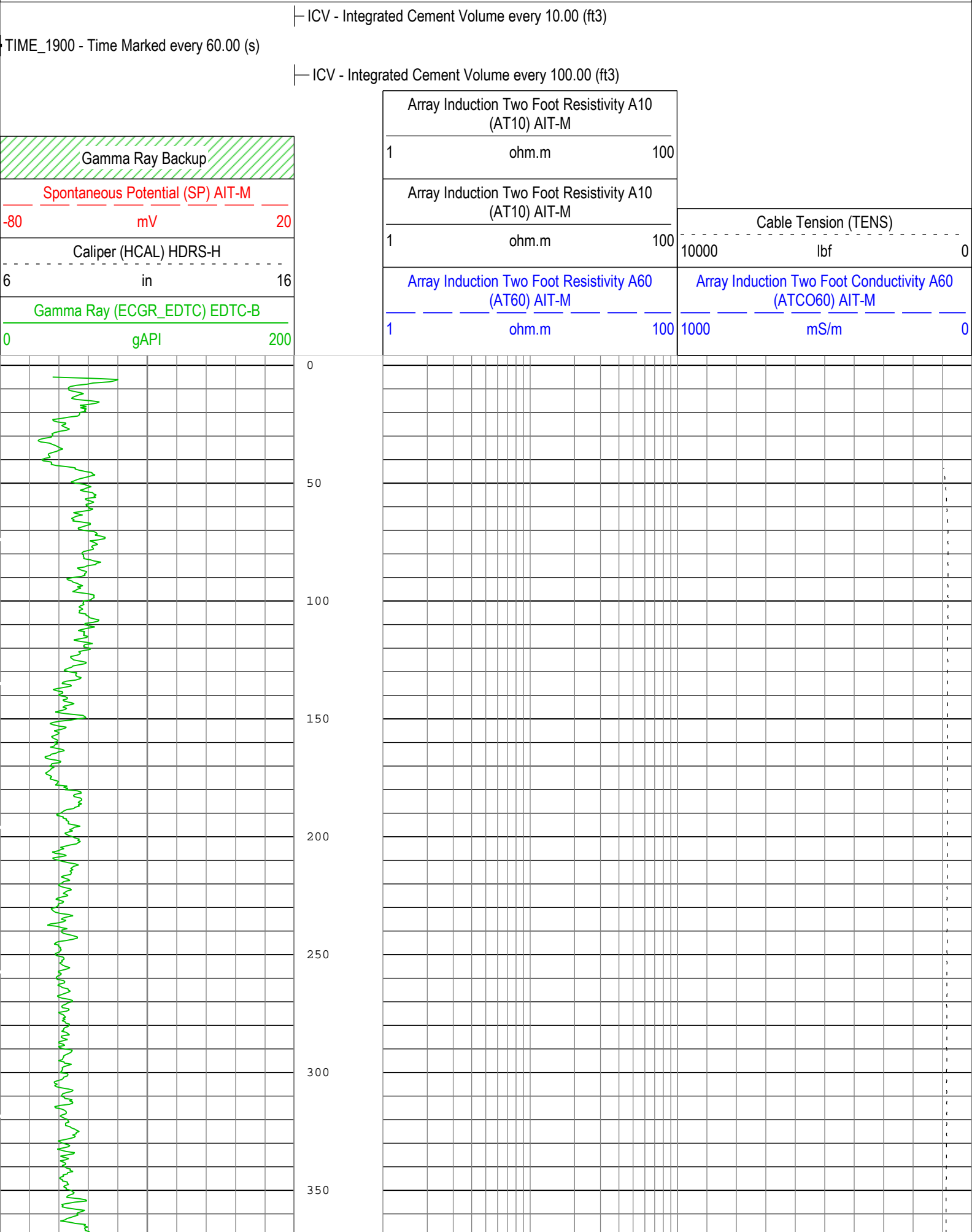
AIT-M.AIMC.AIMC

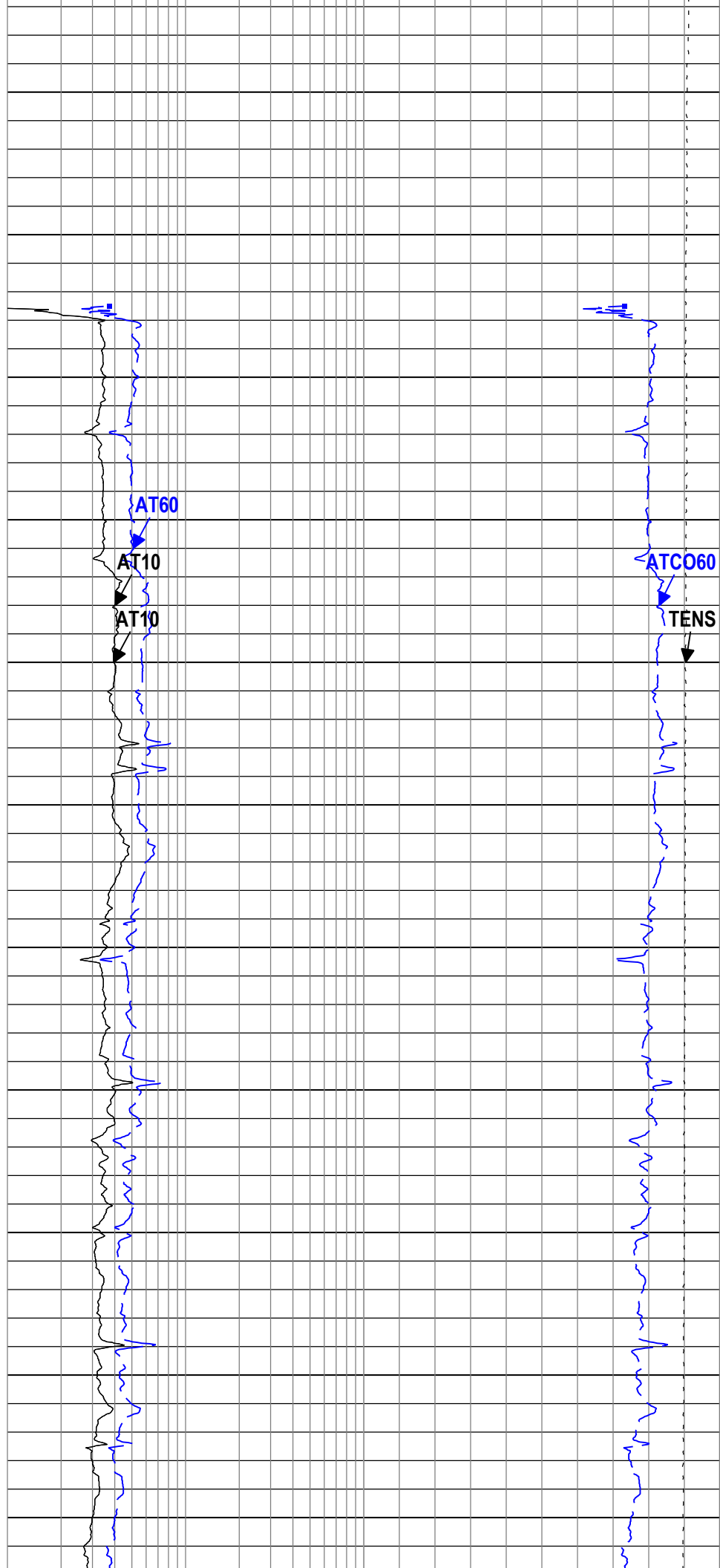
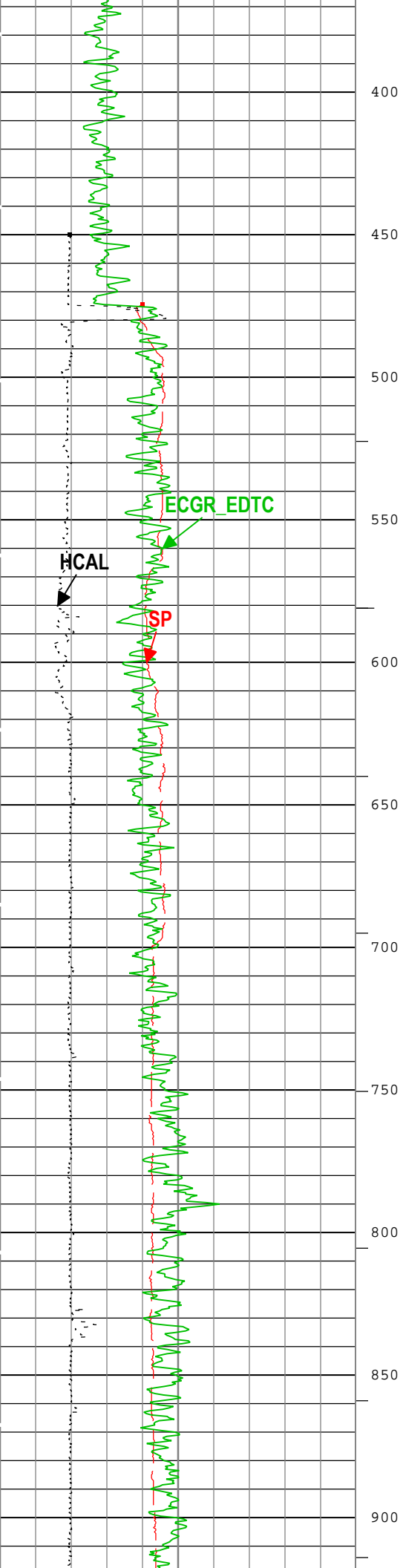
6in

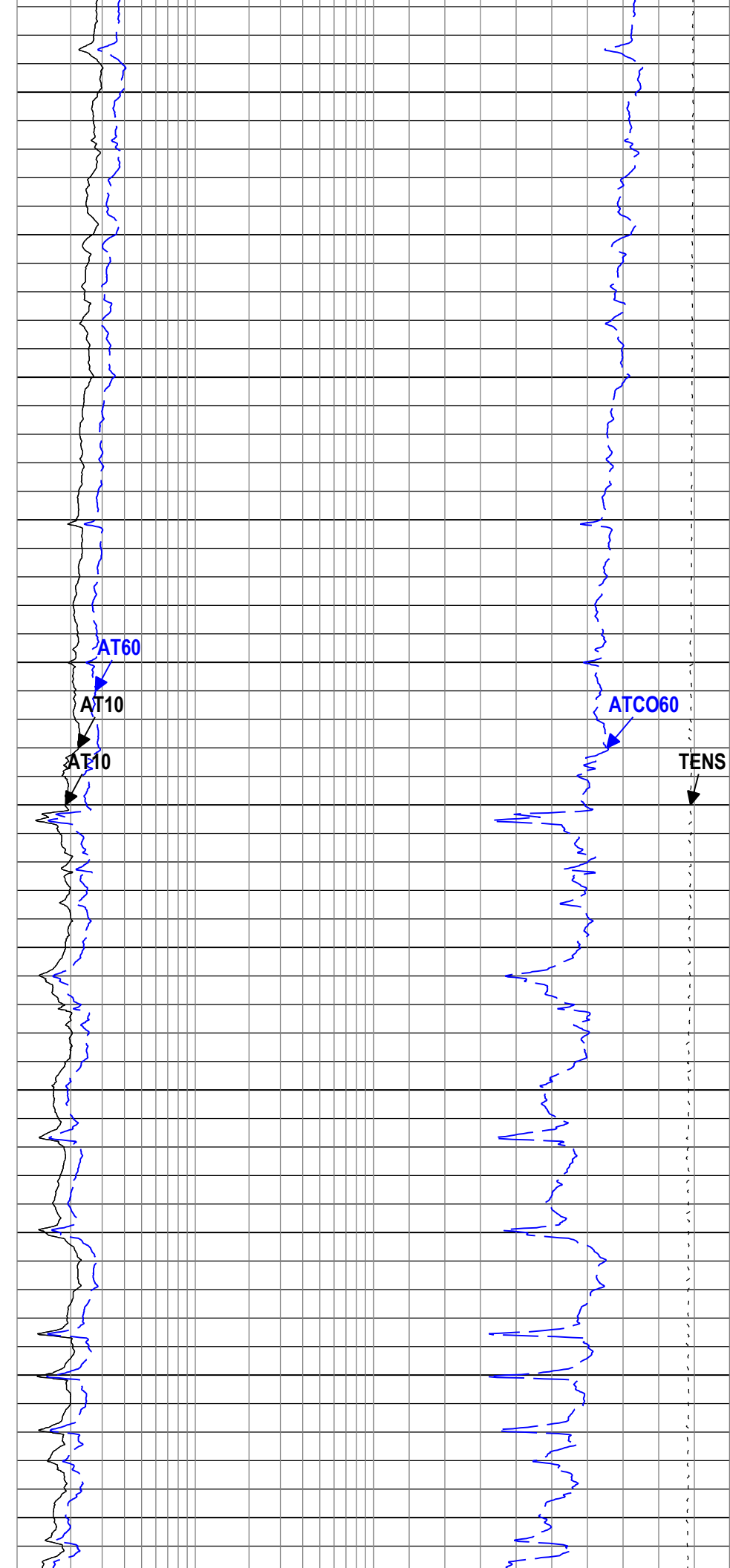
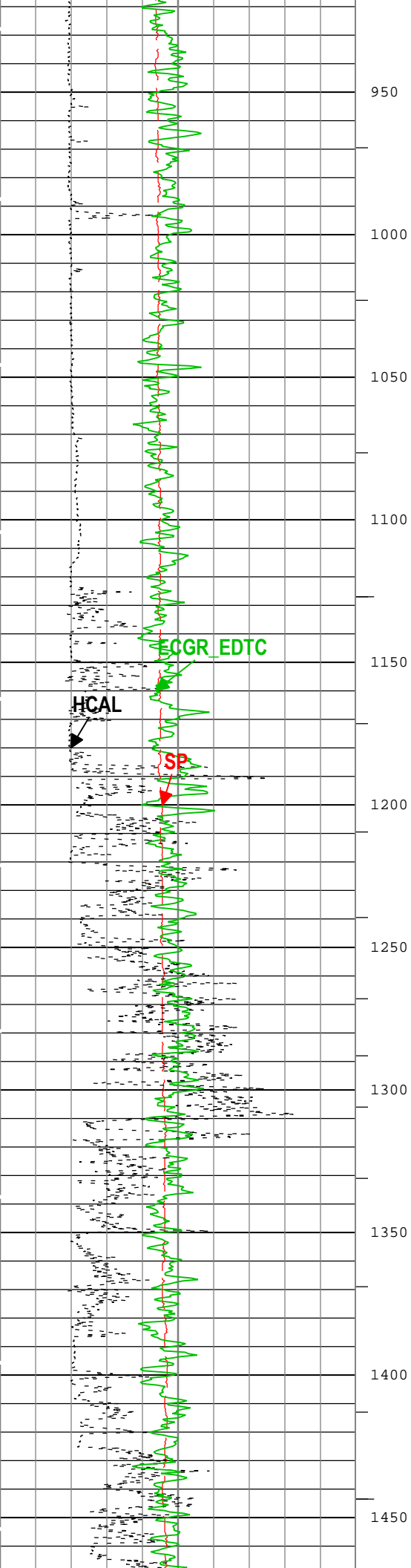
TENS WLWorkflow

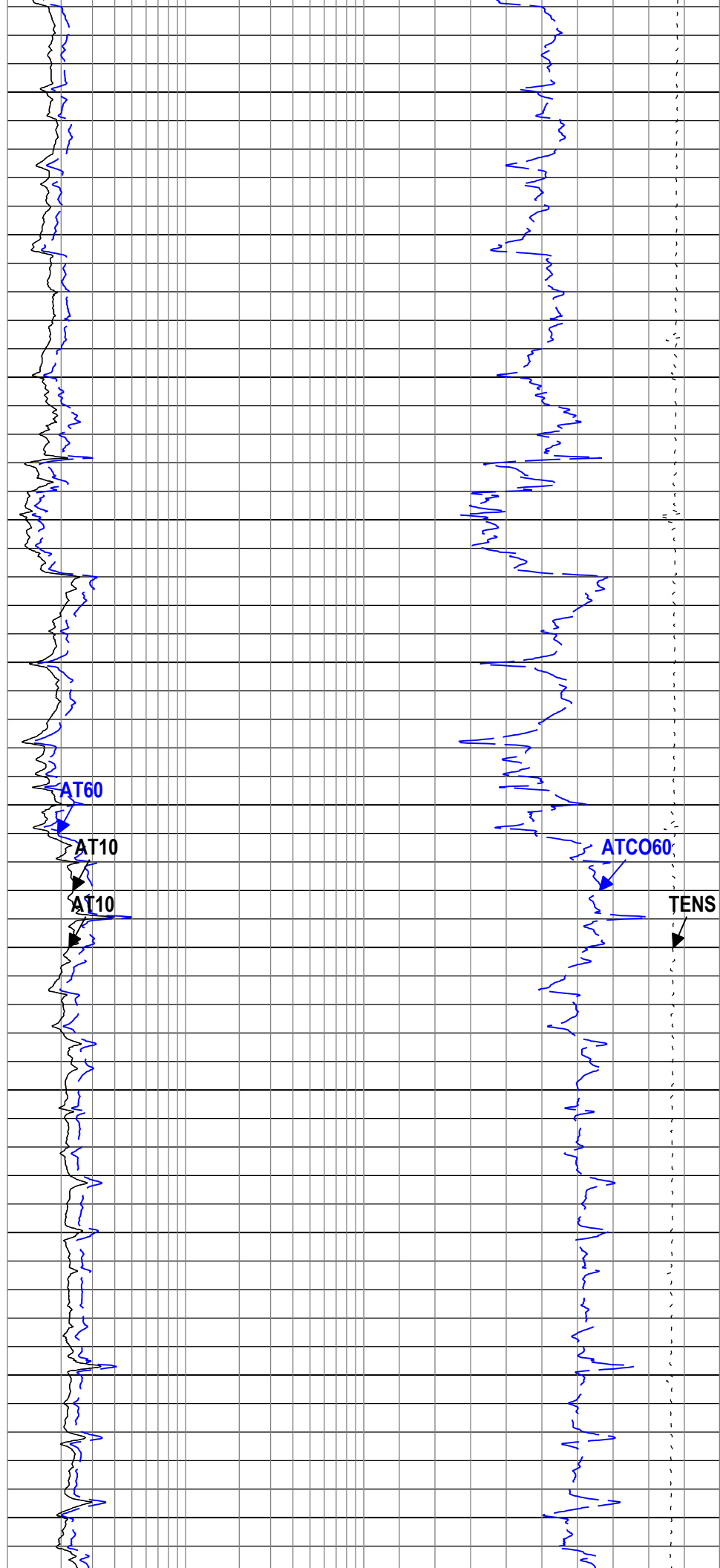
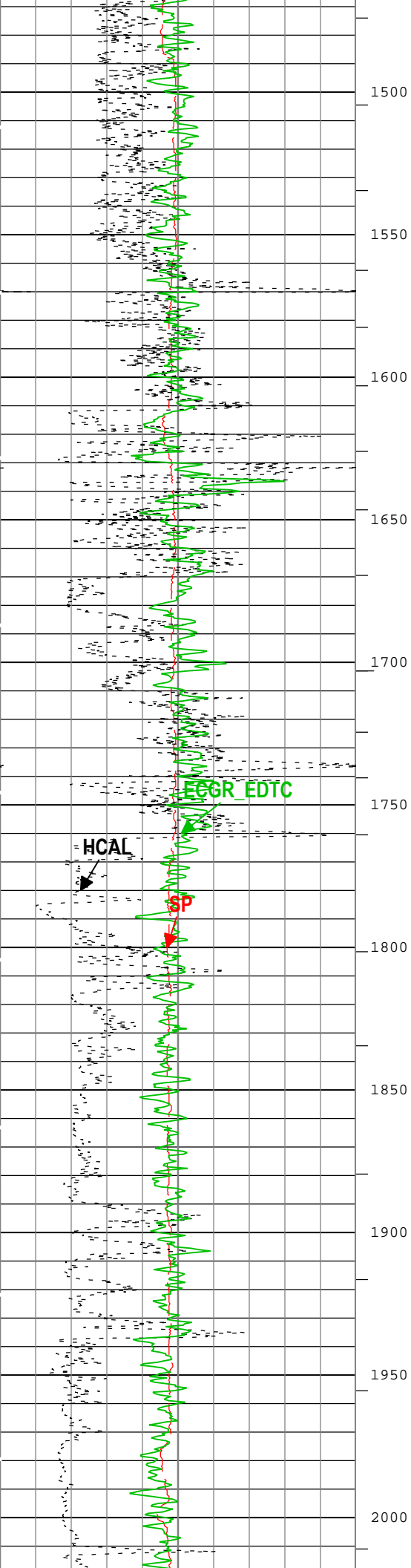
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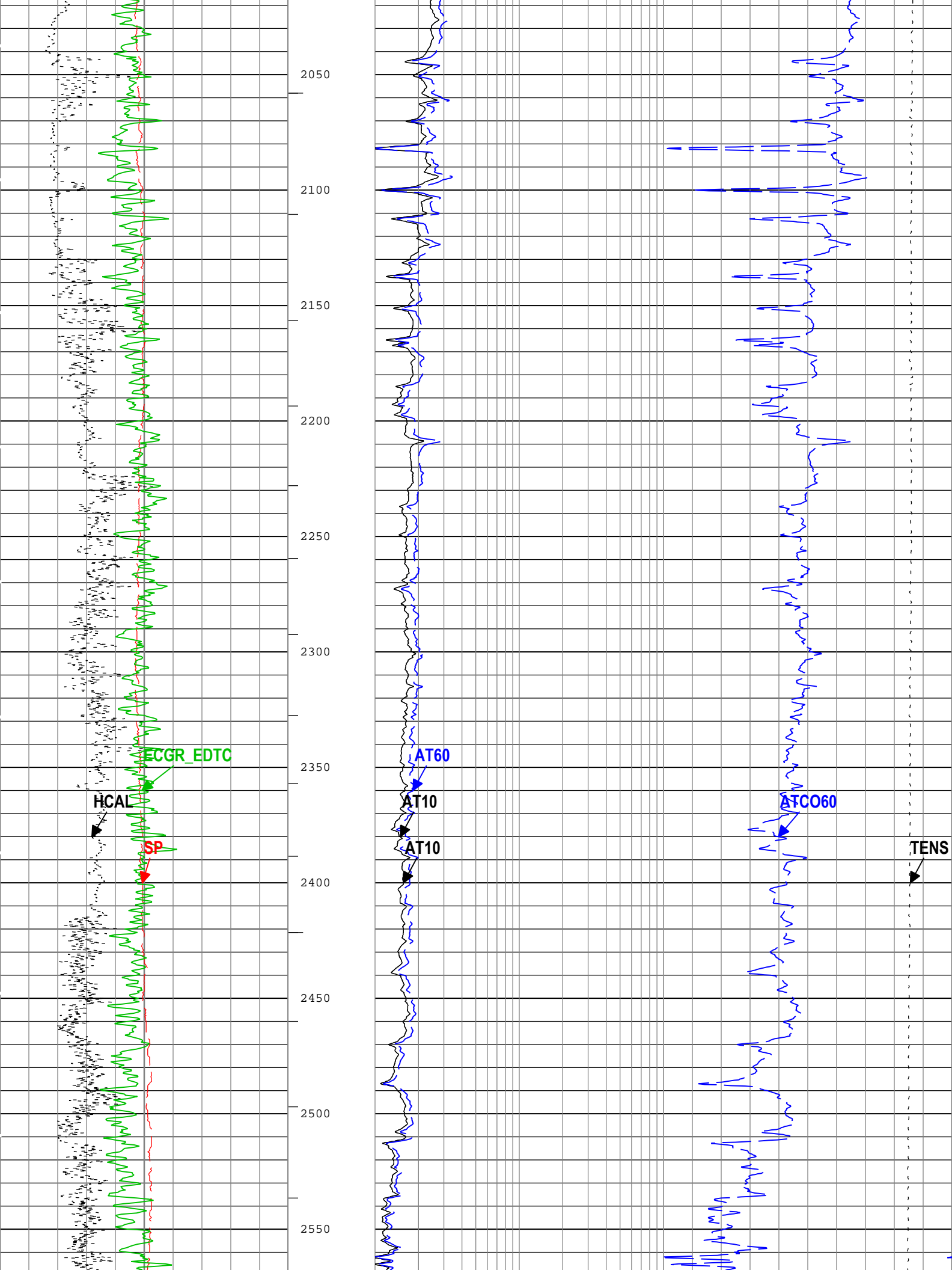
TIME_1900 WLWorkflow

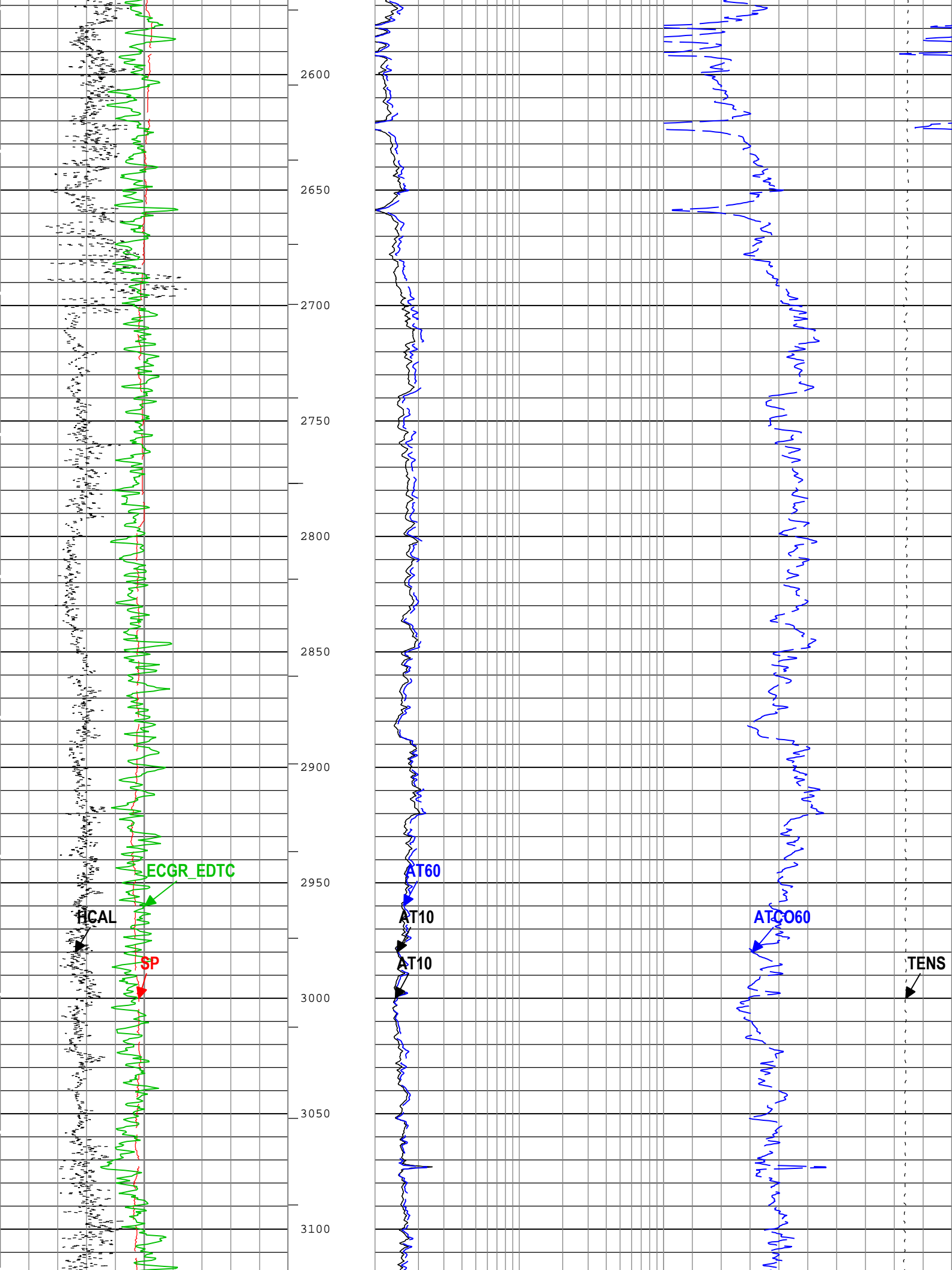


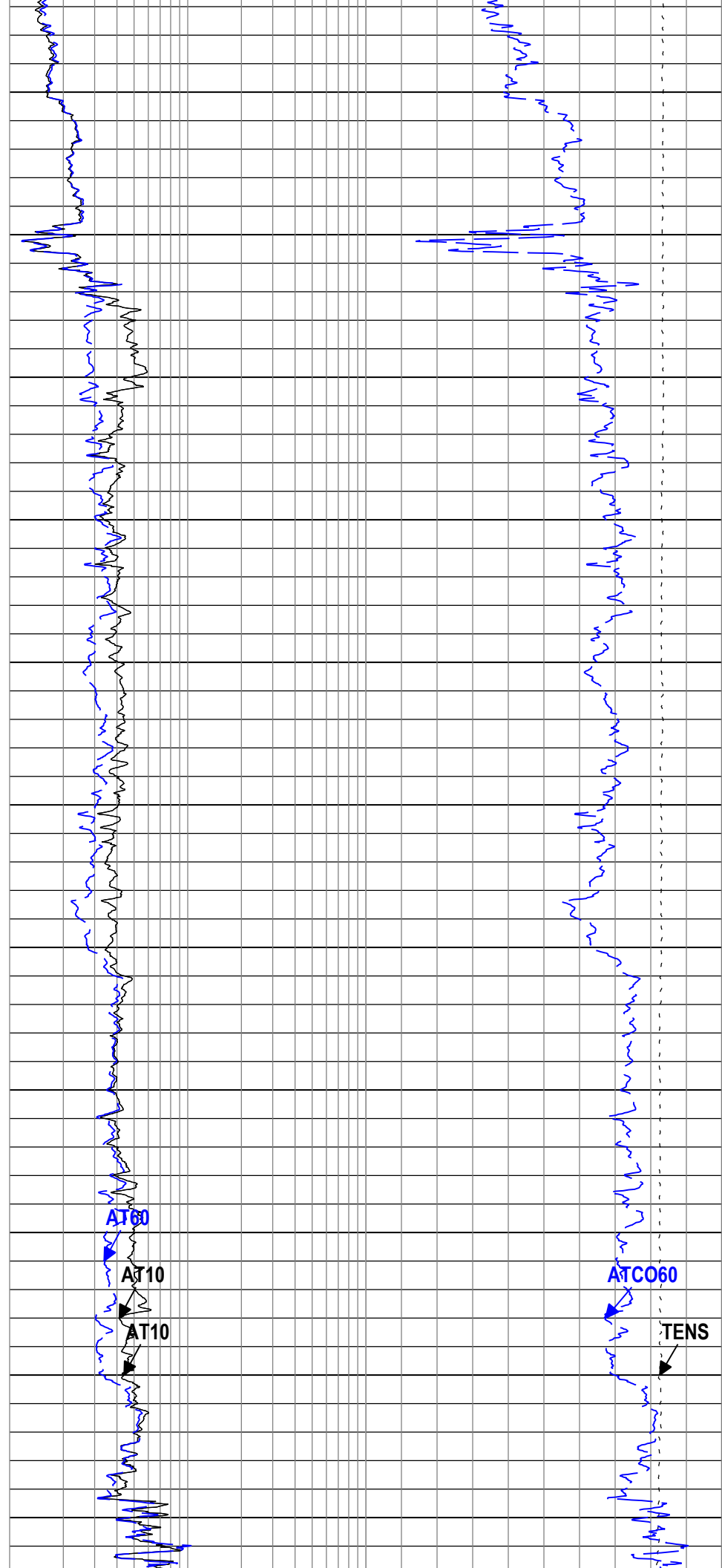
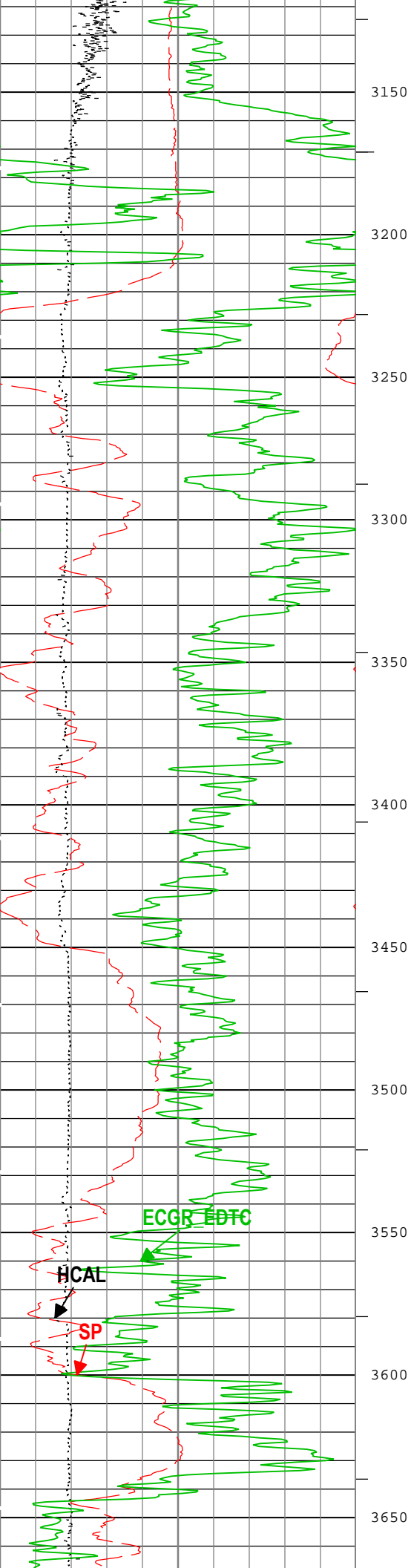


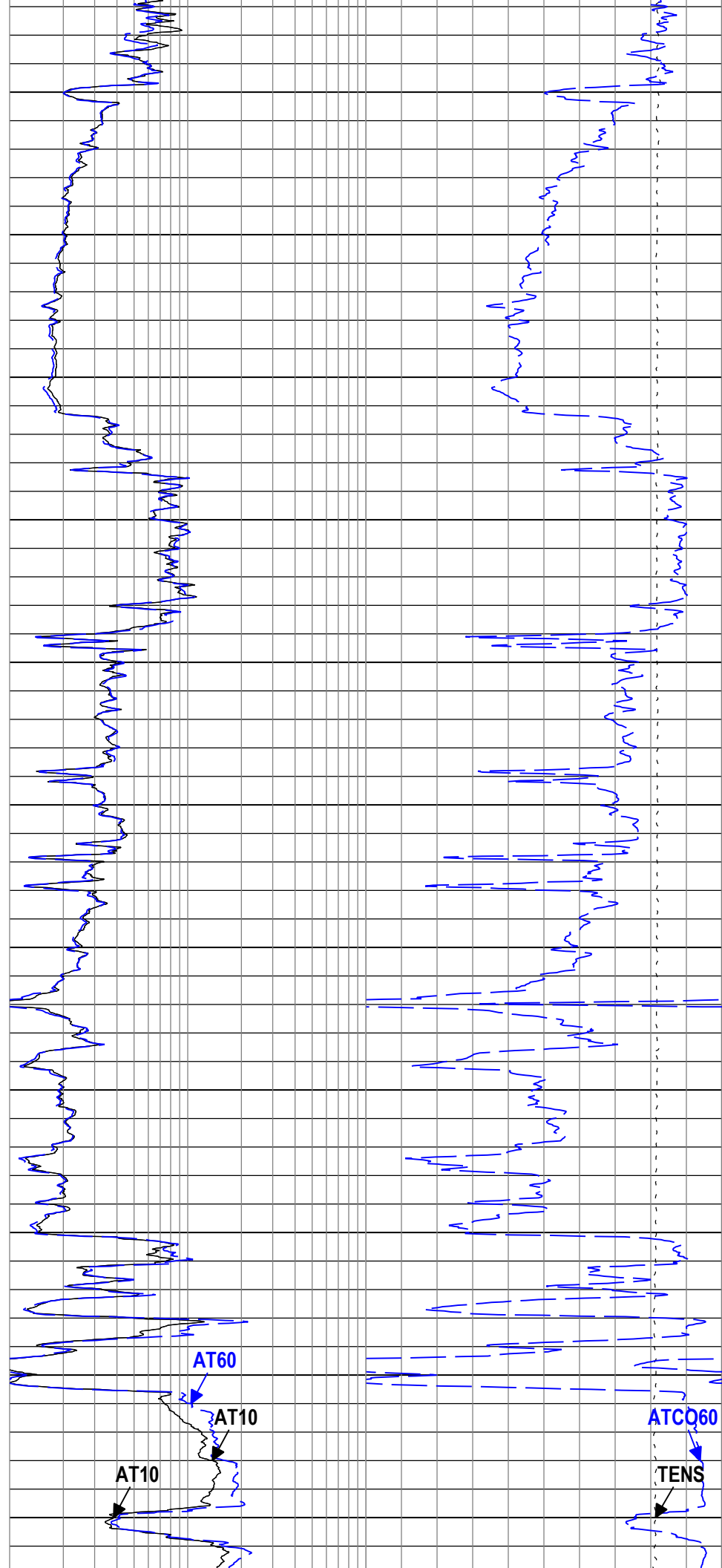
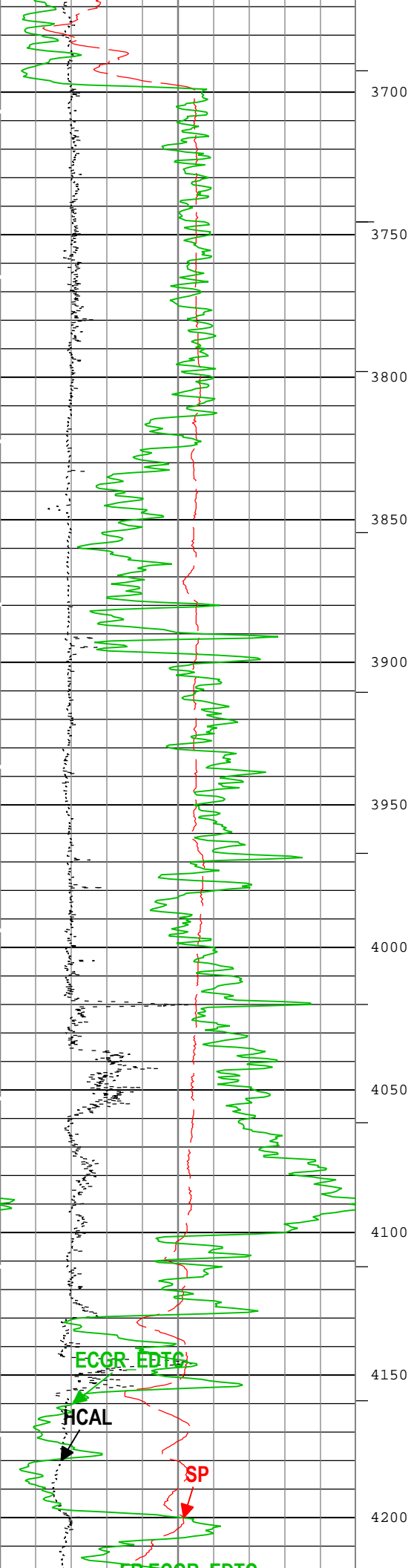


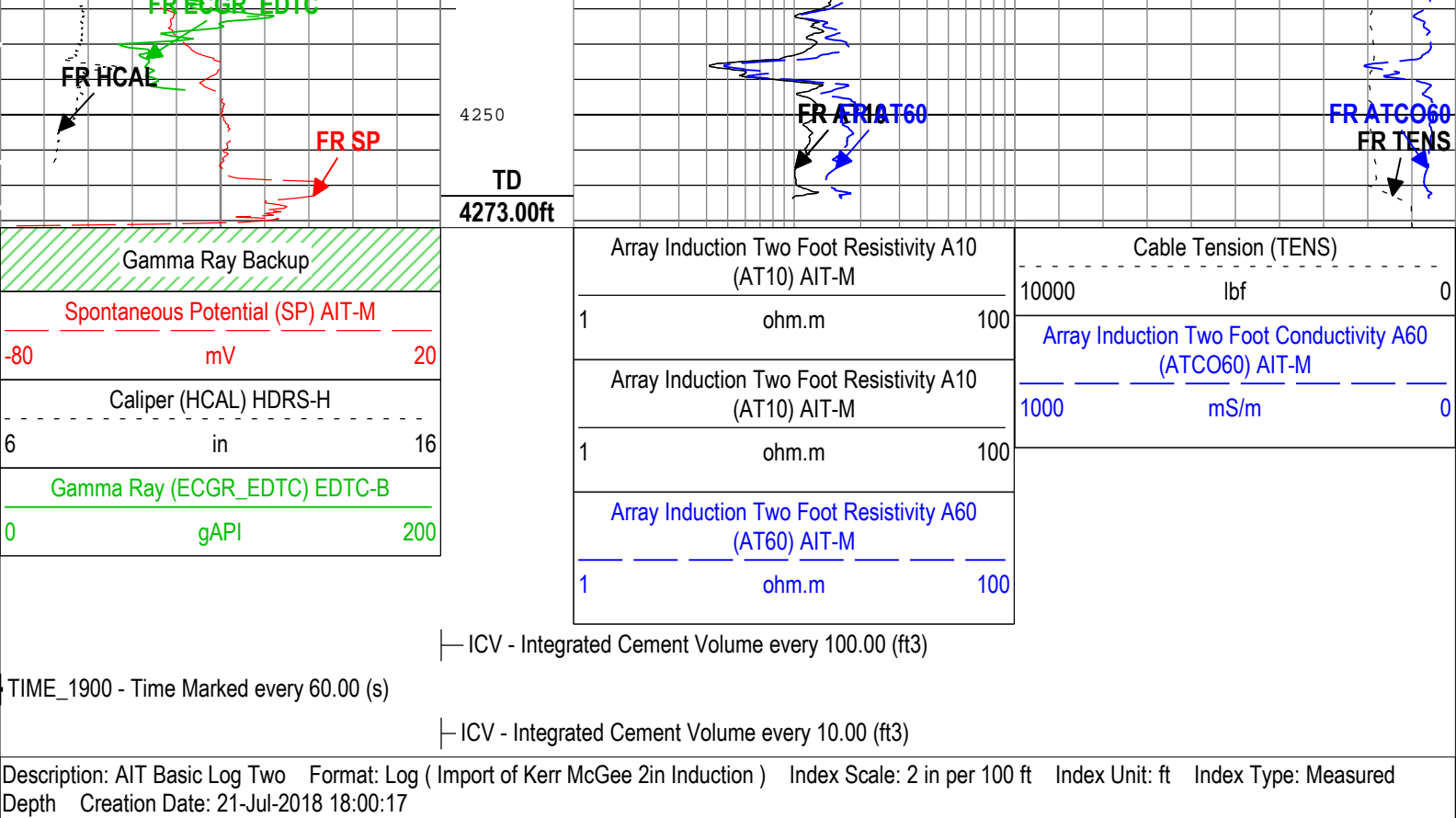






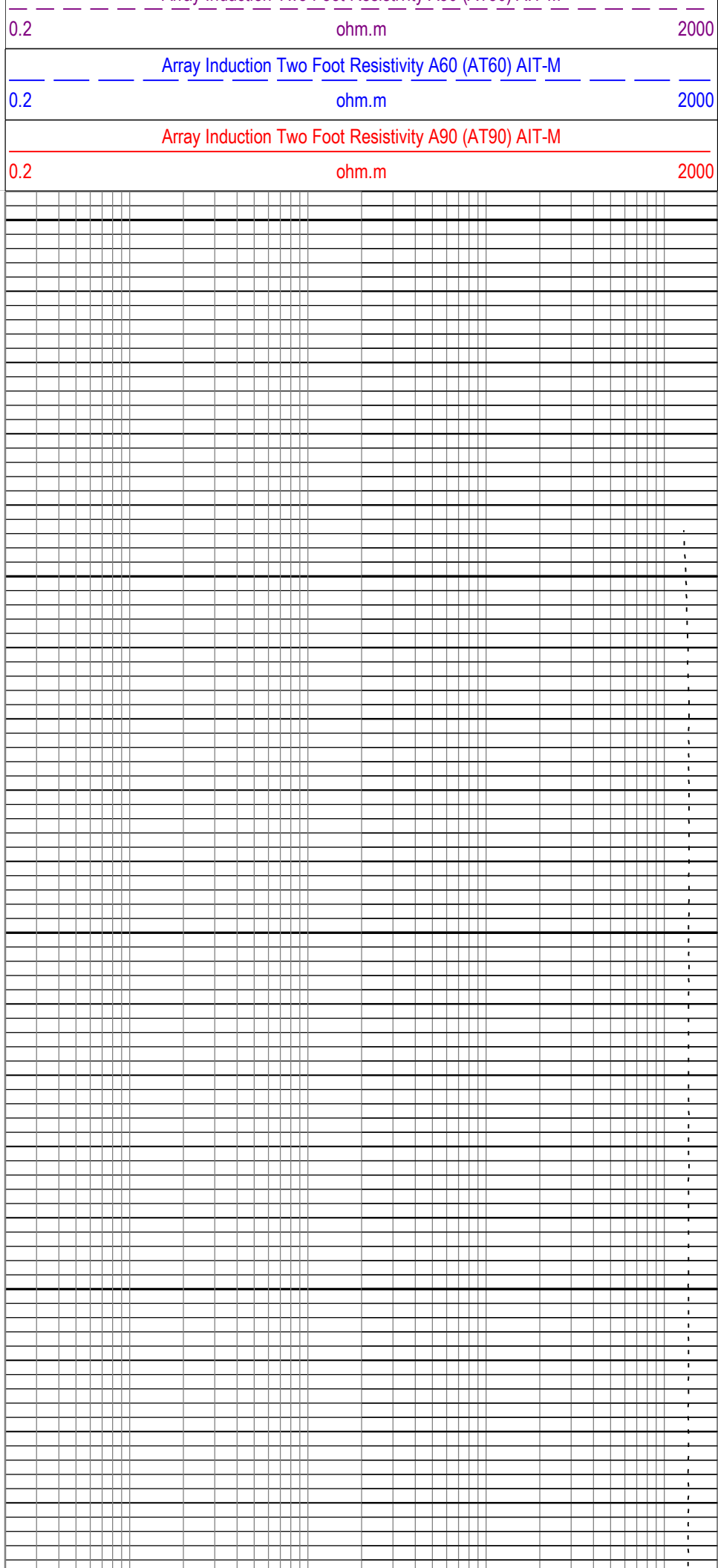
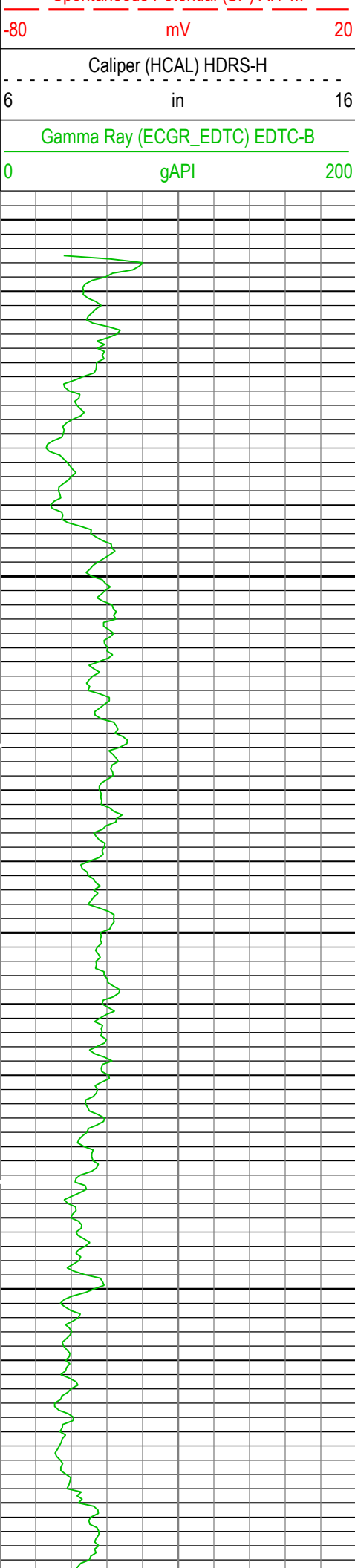


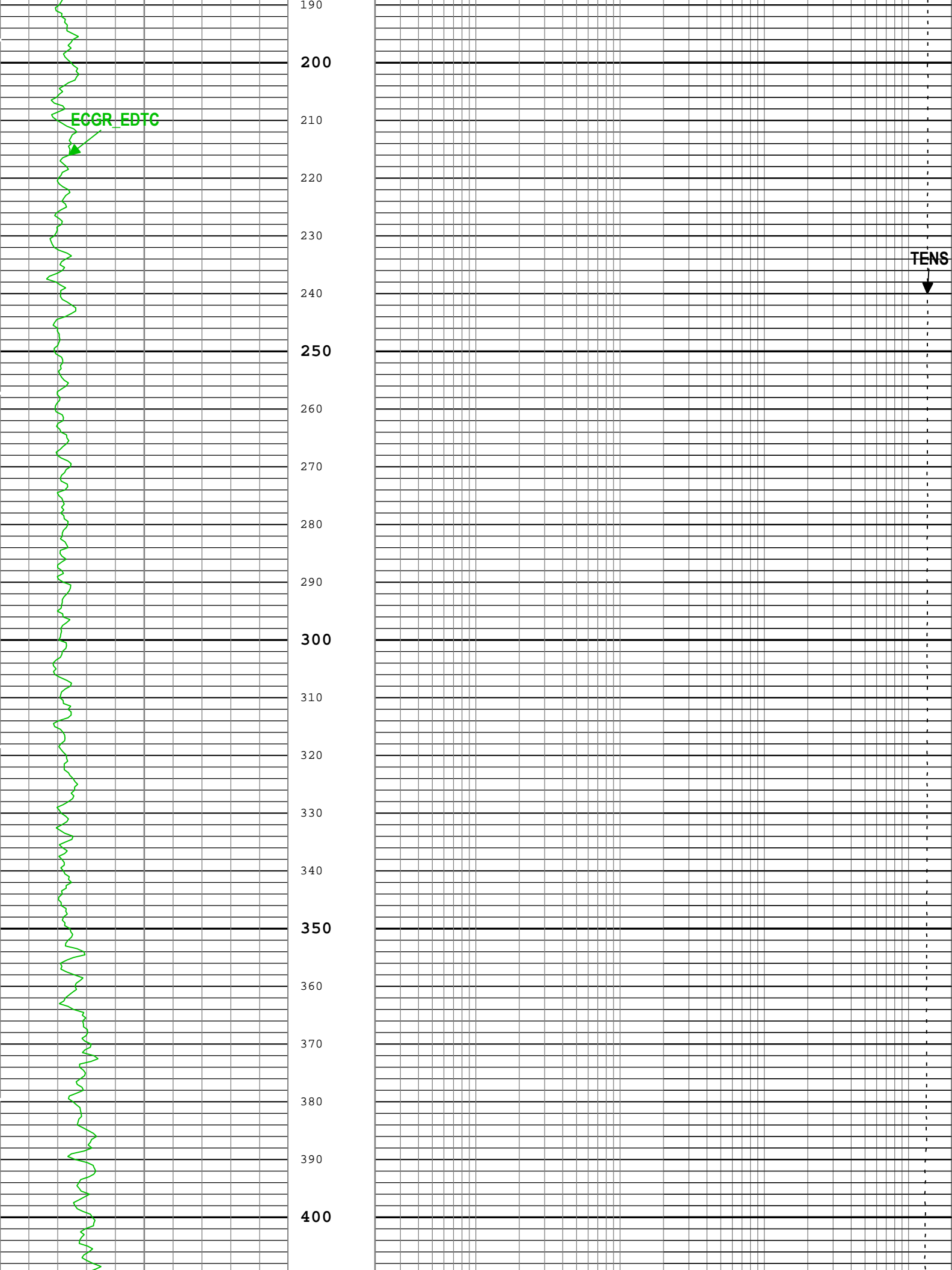


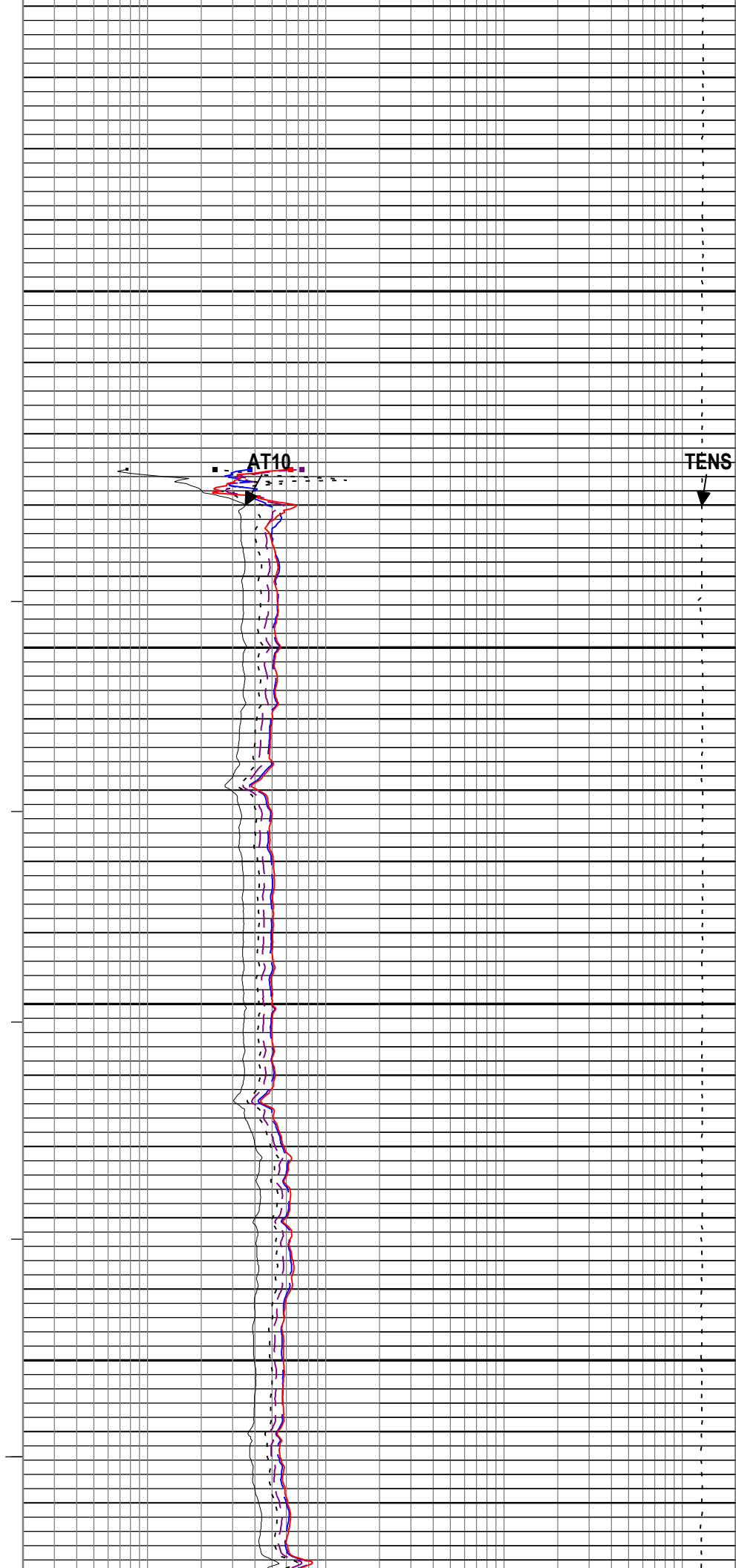
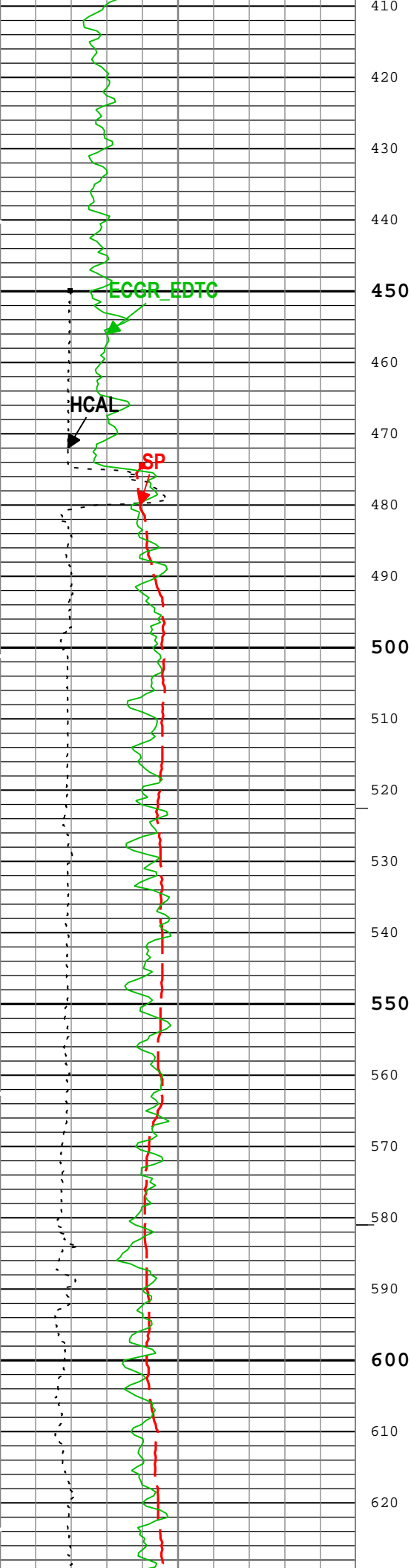


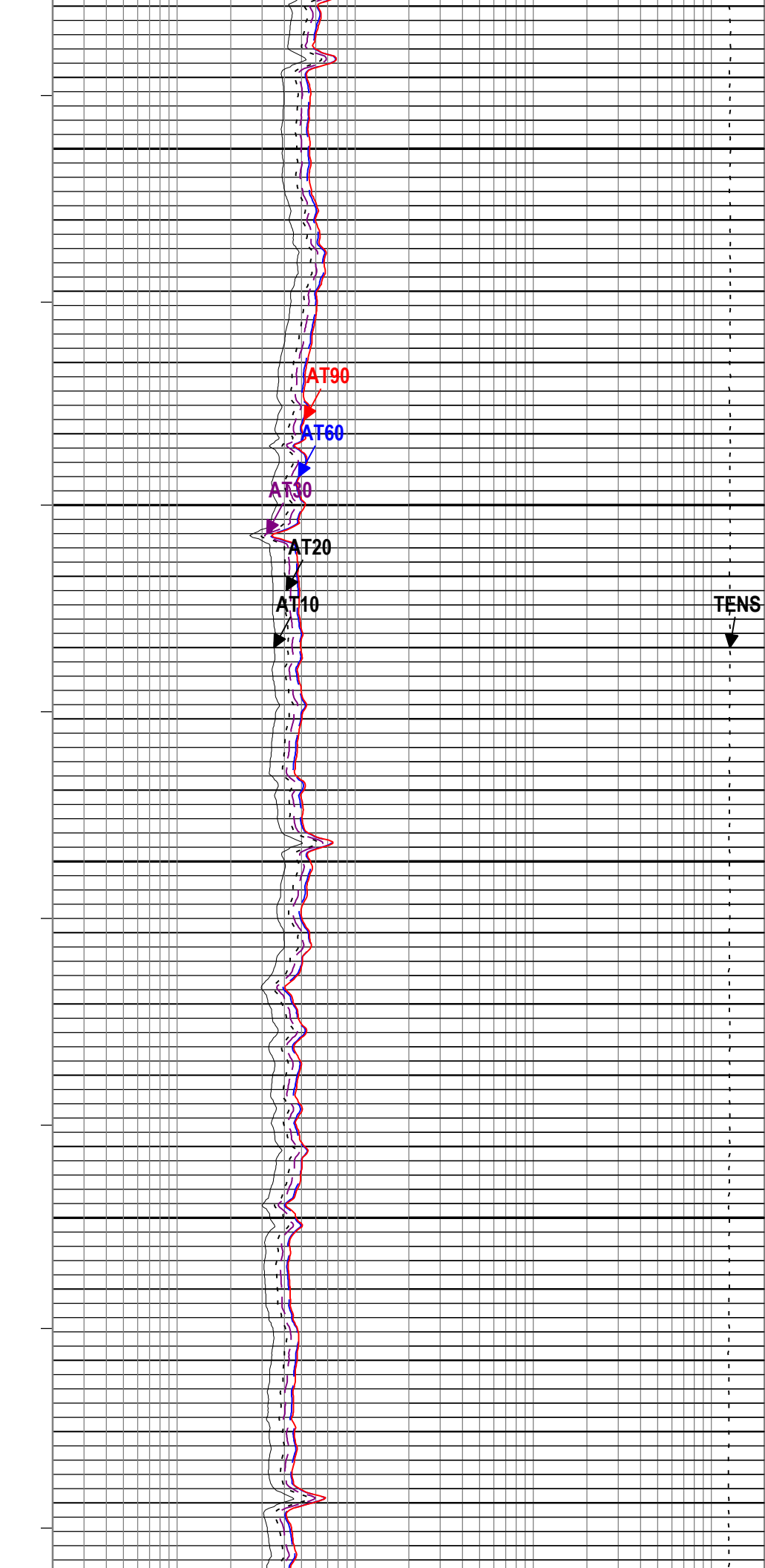
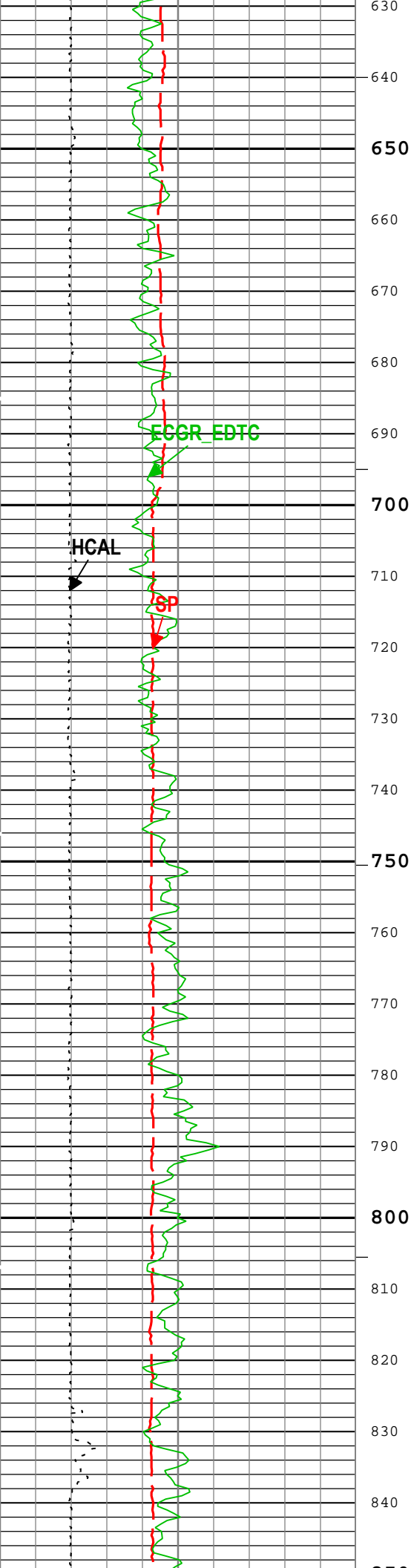
Channel Processing Parameters				
1A: Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Mud Resistivity	
ASTA	Array Induction Tool Standoff	AIT-M	0.125	in
ISSBAR	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	475	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	8.625	in
DFD	Drilling Fluid Density	Borehole	8.8	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
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	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
SP_SHIFT	SP Shift	AIT-M	50	mV
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft
Depth Zone Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
BS	12.25	0	475	
BS	7.875	475	4270	
All depth are actual.				
Tool Control Parameters				
1A: Parameters				

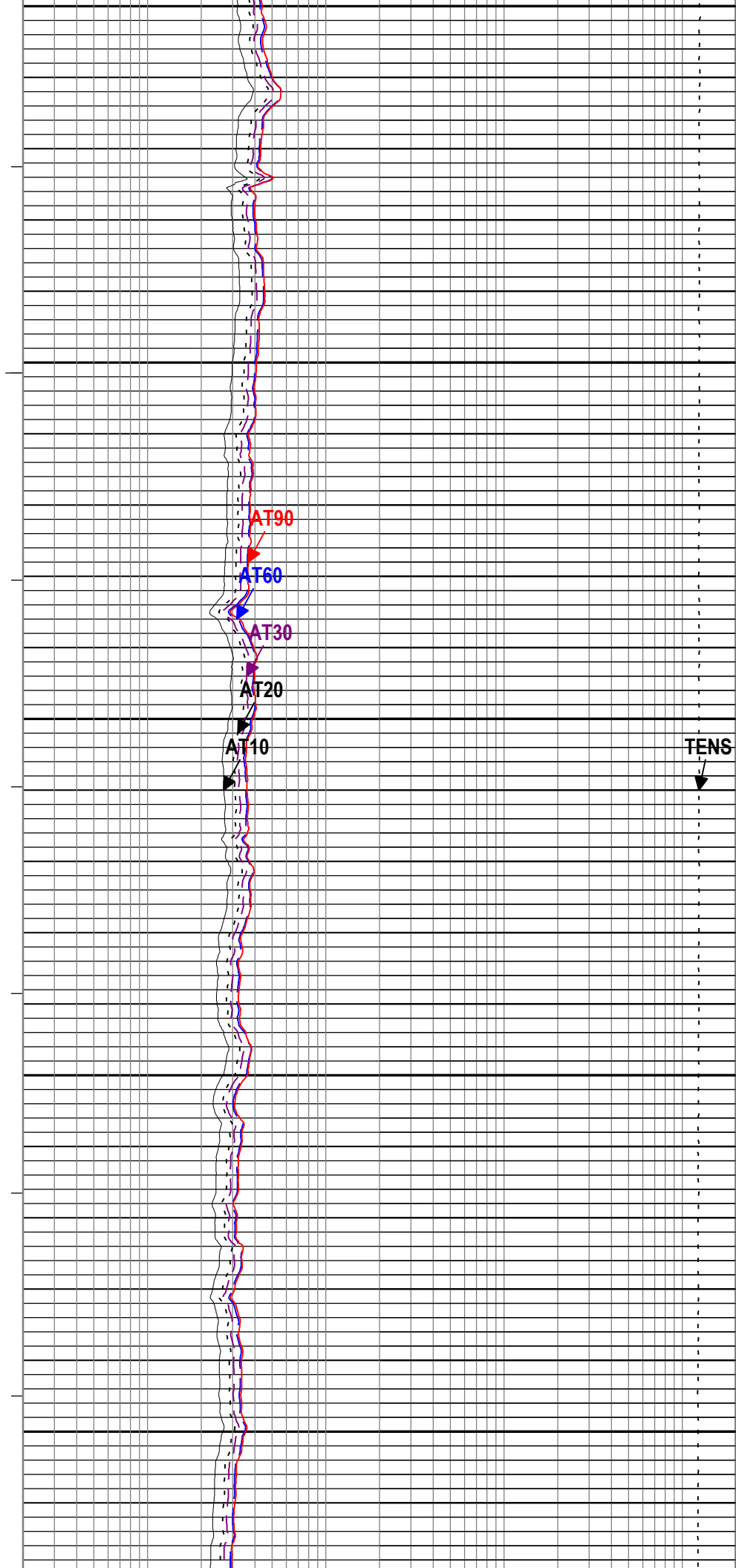
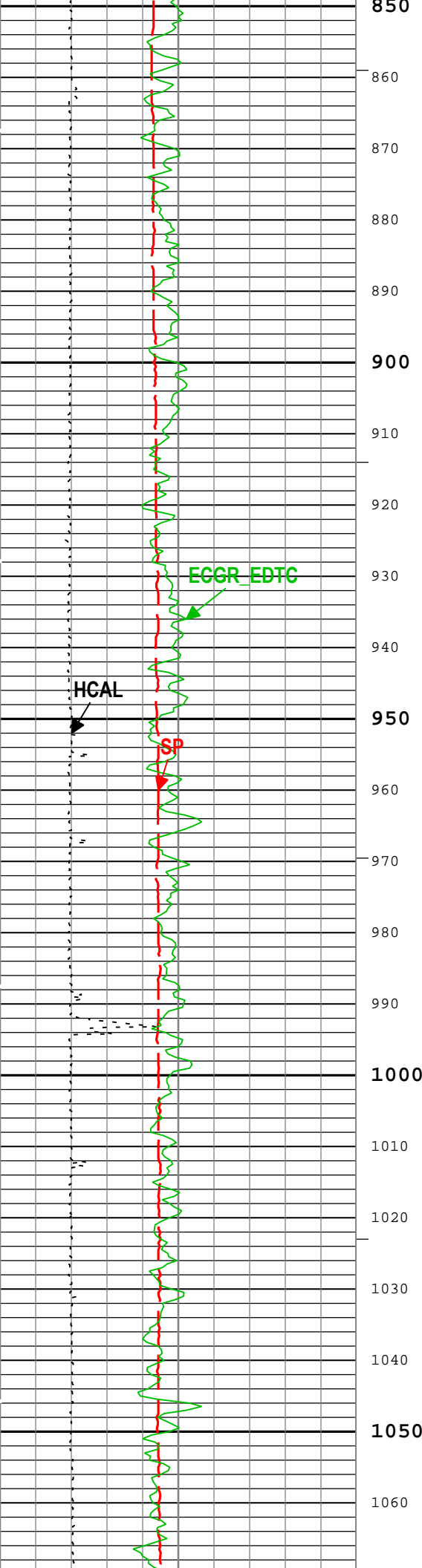
Parameters										
Parameter	Description				Tool		Value		Unit	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed				WLSESSION		3600		ft/h	
1A										
5" Induction										
Integration Summary										
Output Channel(s)		Output Description		Input Parameter			Output Value		Unit	
ICV		Integrated Cement Volume		GCSE_UP_PASS, FCD			919.42		ft3	
IHV		Integrated Hole Volume		GCSE_UP_PASS			1547.44		ft3	
Software Version										
Acquisition System						Version				
Maxwell 2018 SP1						8.1.99839.3100				
Application Patch						Wireline_Hotfix-Mandatory-2018SP1_8.1.102865				
Pass Summary										
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data	
1A	Log[6]:Up	Up	43.14 ft	4281.79 ft	21-Jul-2018 4:14:35 PM	21-Jul-2018 5:28:06 PM	ON	2.08 ft	No	
All depths are referenced to toolstring zero										
Log						Company:St. Croix Operating, Inc.		Well:Jack Creek #1		1A: Log[6]:Up:S005
Description: AIT Basic Log Two Format: Log (EMD 5in Induction) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 21-Jul-2018 18:00:19										
Channel	Source		Sampling							
AT10	AIT-M:AMIS:AMIS		3in							
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							
ICV	Borehole		6in - RT							
IHV	Borehole		6in - RT							
SP	AIT-M:AMIS:AMIS		6in							
TENS	WLWorkflow		6in							
TIME_1900	WLWorkflow		0.1in							
—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)										
TIME_1900 - Time Marked every 60.00 (s)										
							Cable Tension (TENS)			
							10000	lbf	0	
Array Induction Two Foot Resistivity A10 (AT10) AIT-M										
0.2		ohm.m						2000		
Array Induction Two Foot Resistivity A20 (AT20) AIT-M										
0.2		ohm.m						2000		
Gamma Ray Backup										
Spontaneous Potential (SP) AIT-M										
Array Induction Two Foot Resistivity A30 (AT30) AIT-M										

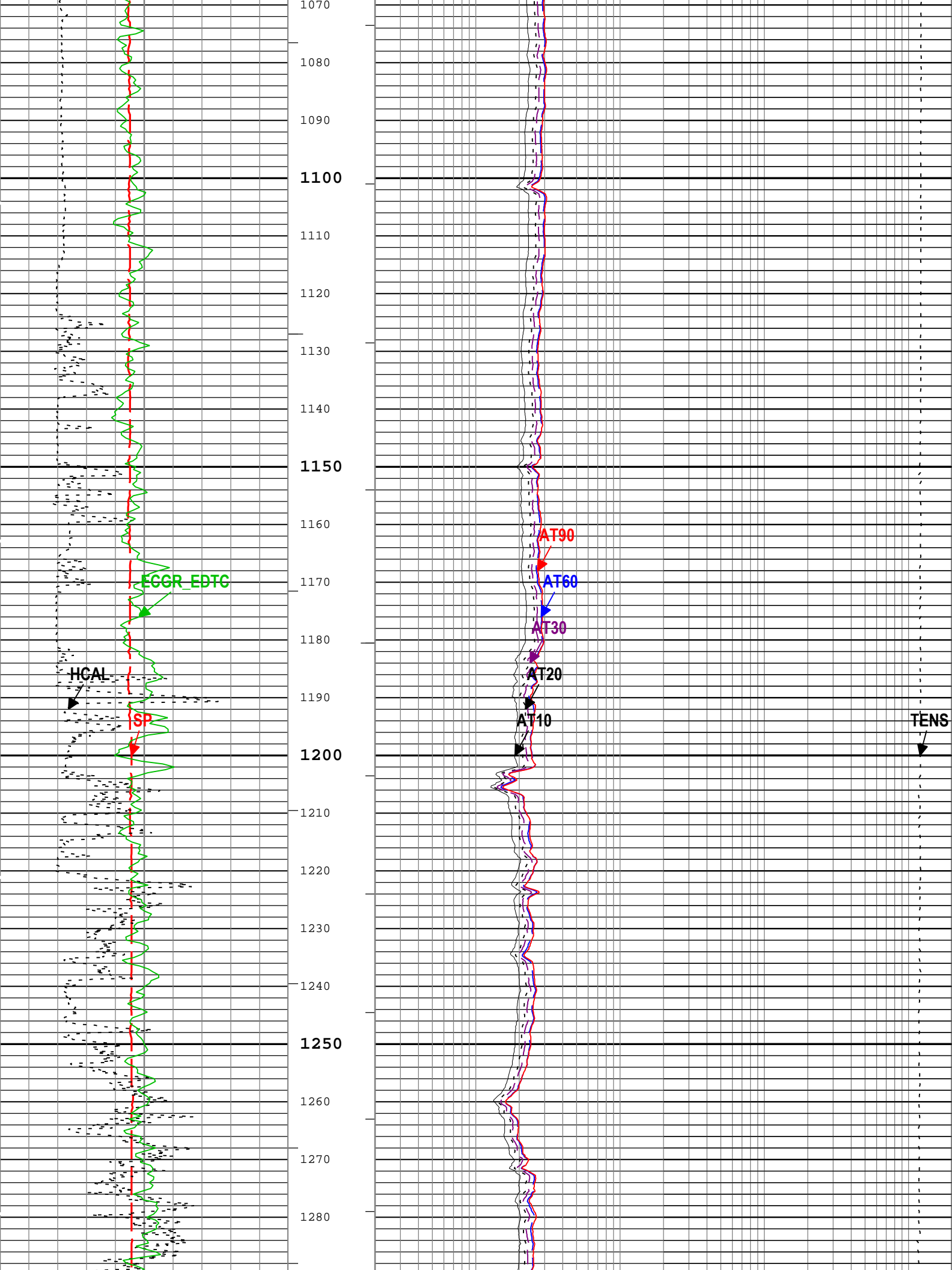


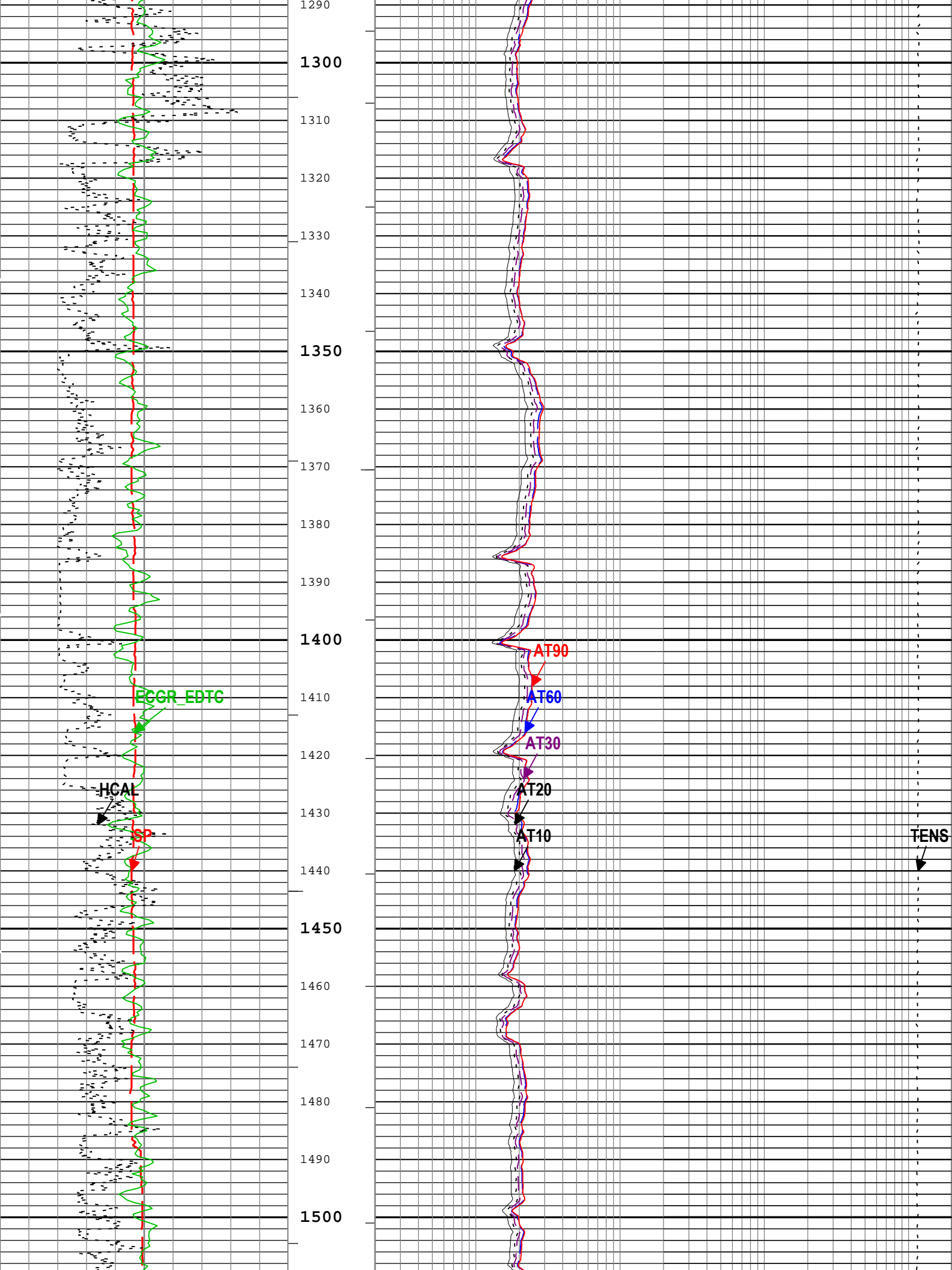


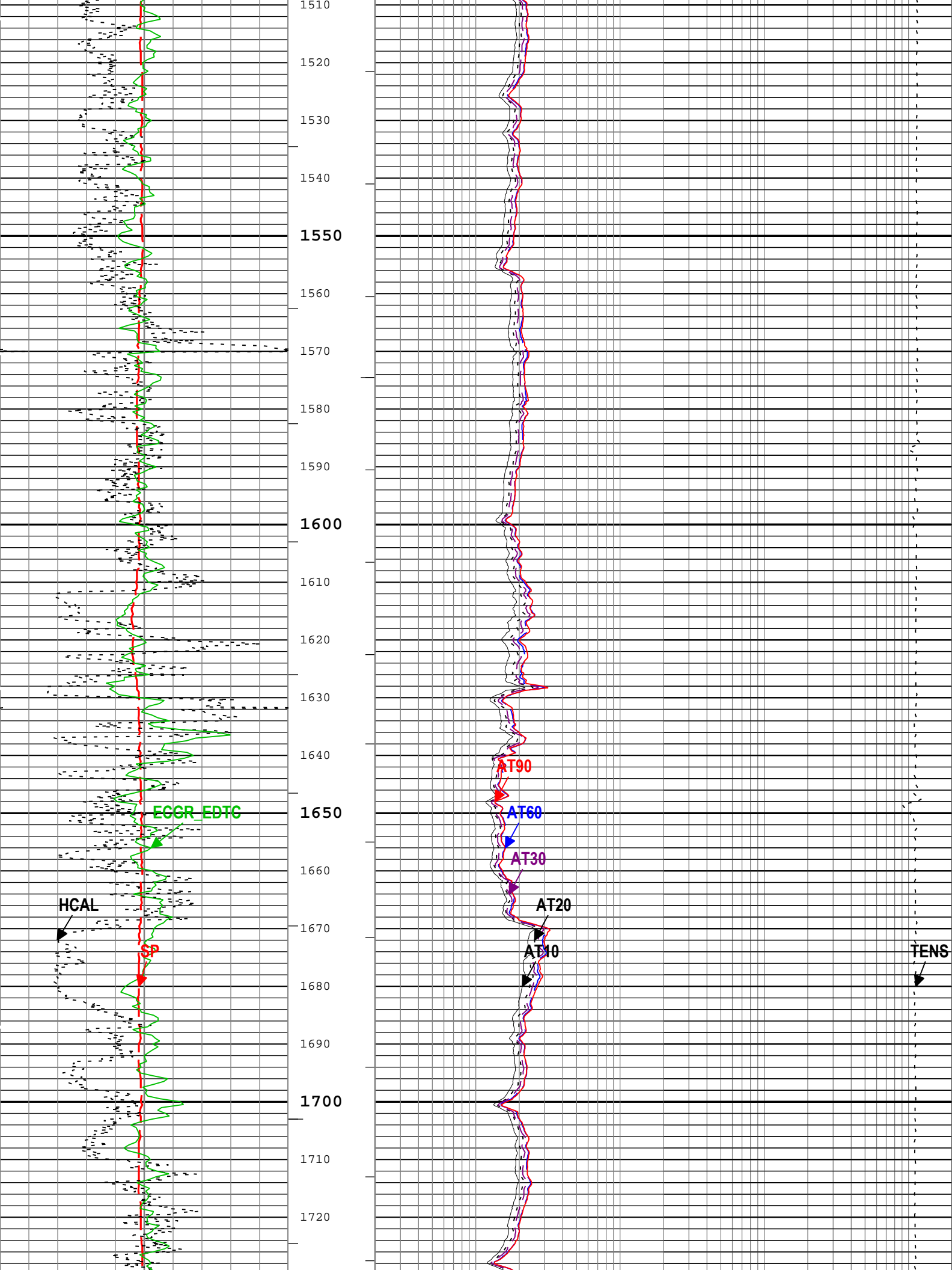


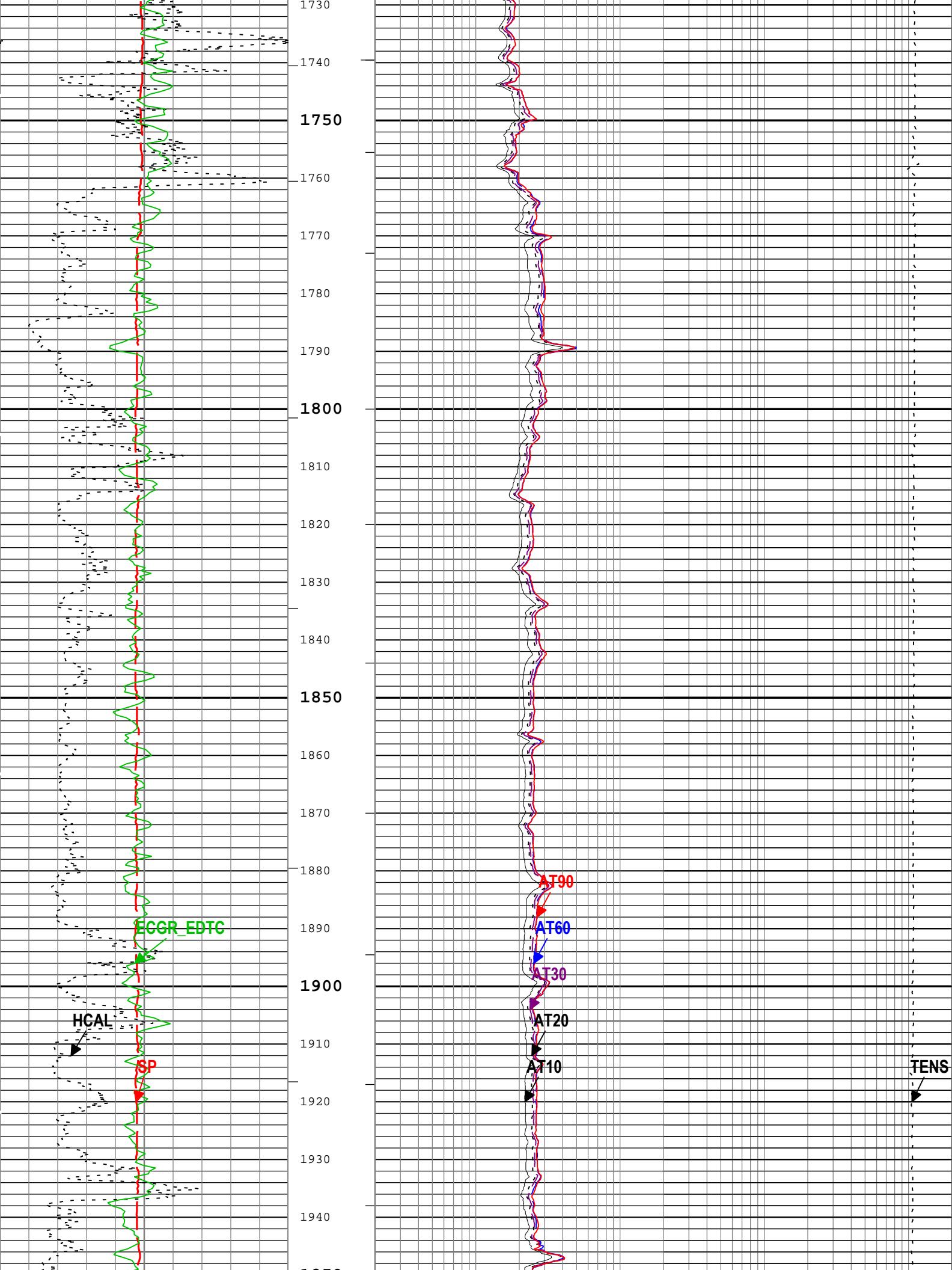


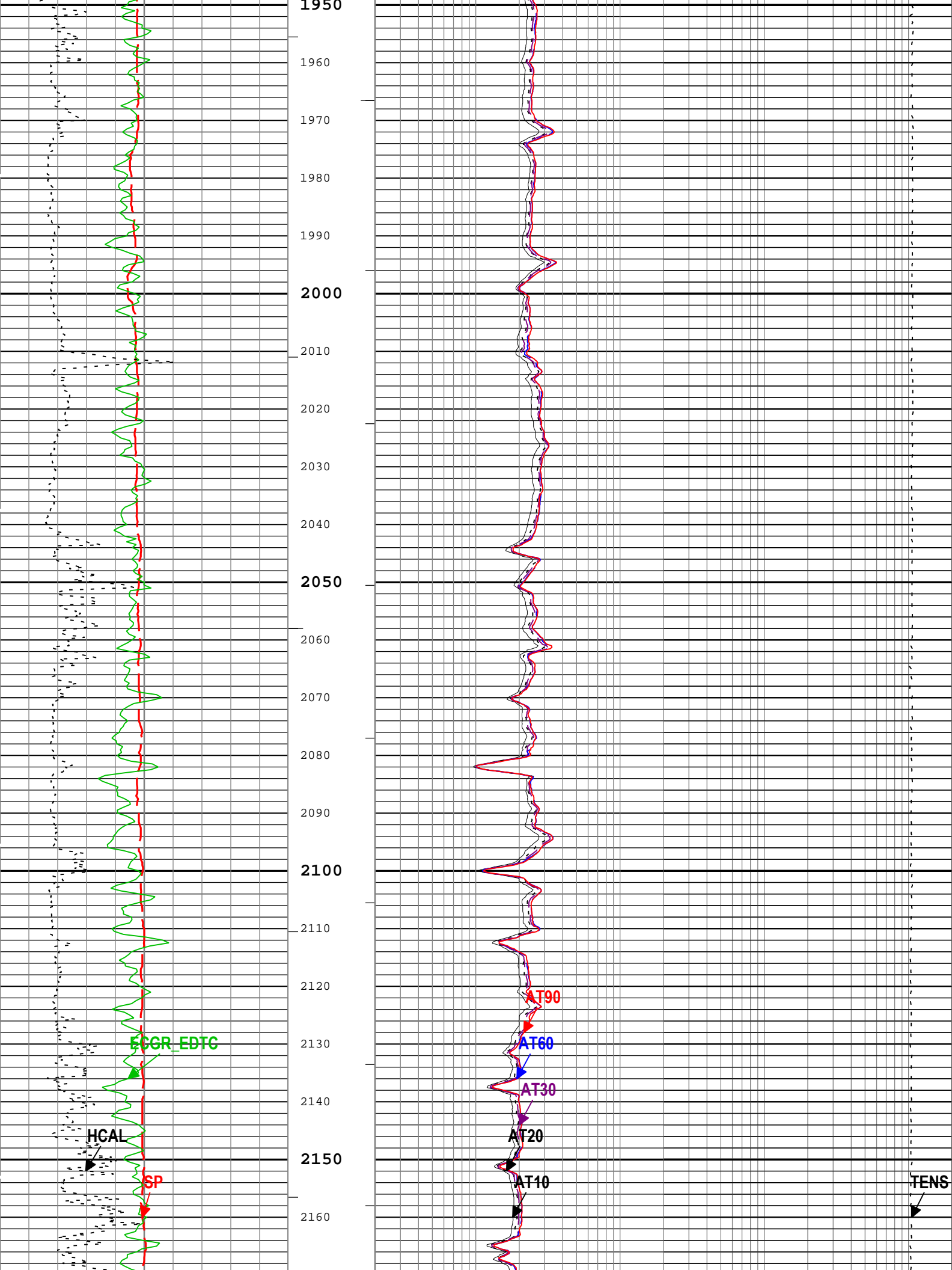


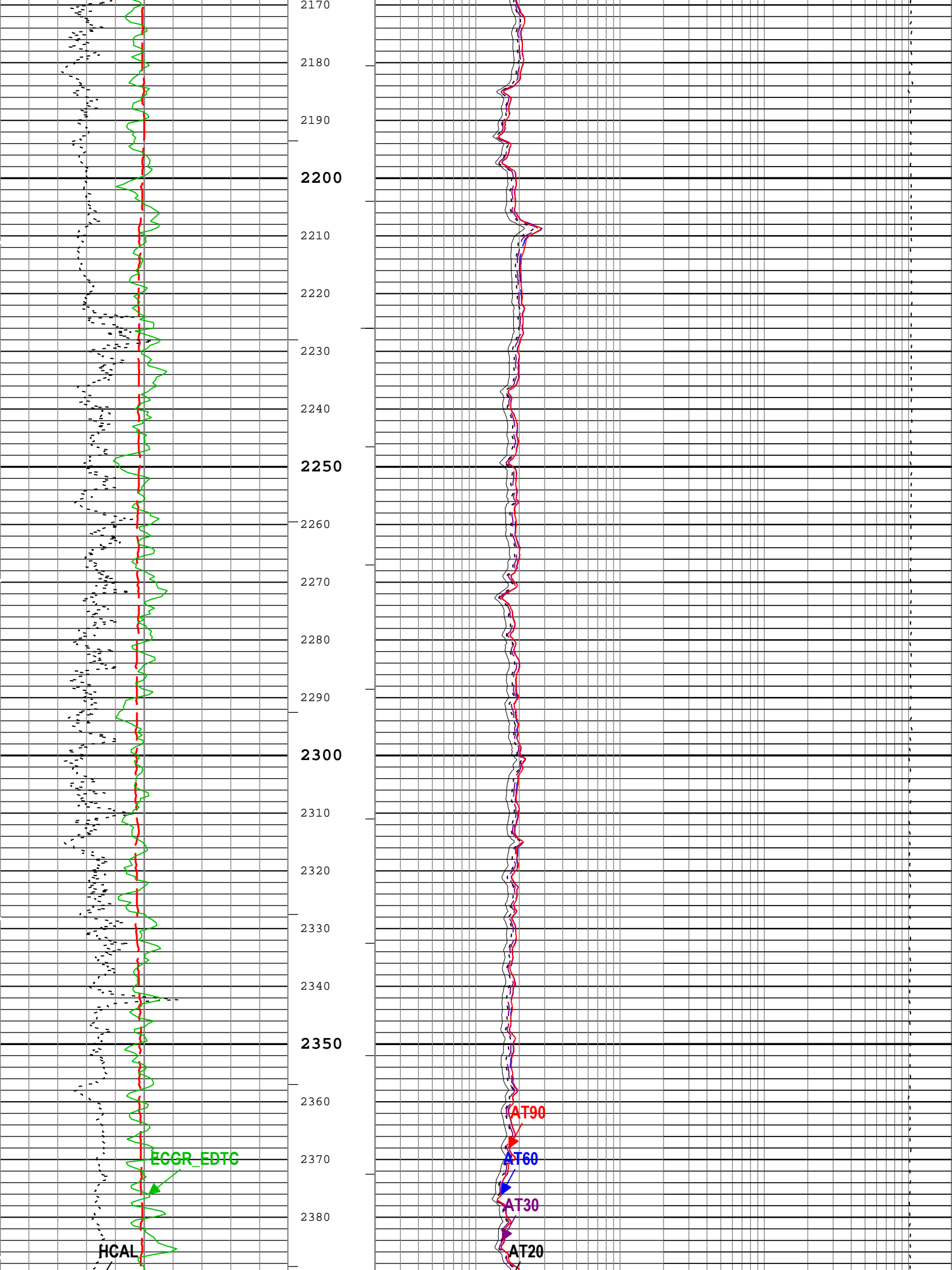


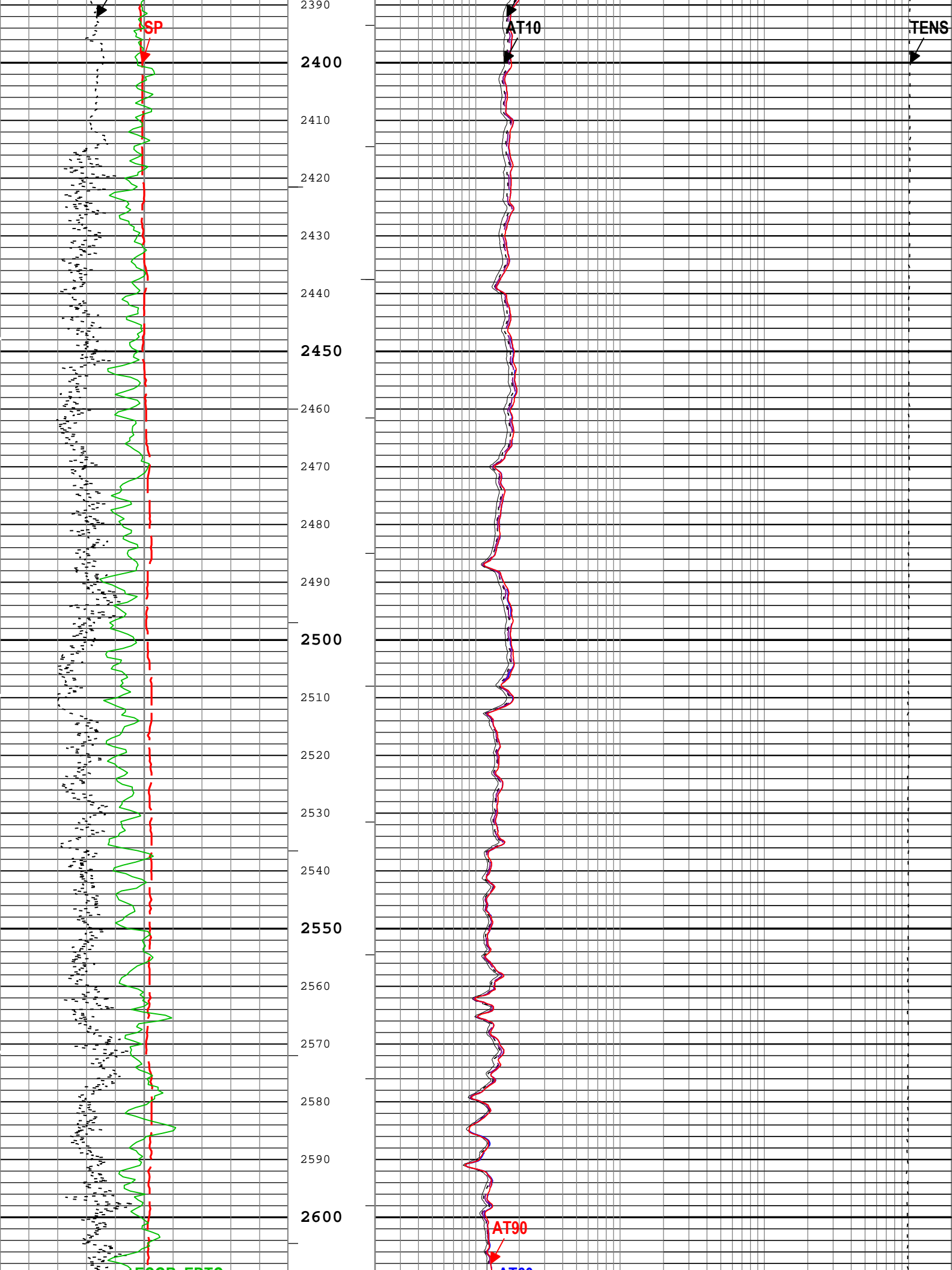


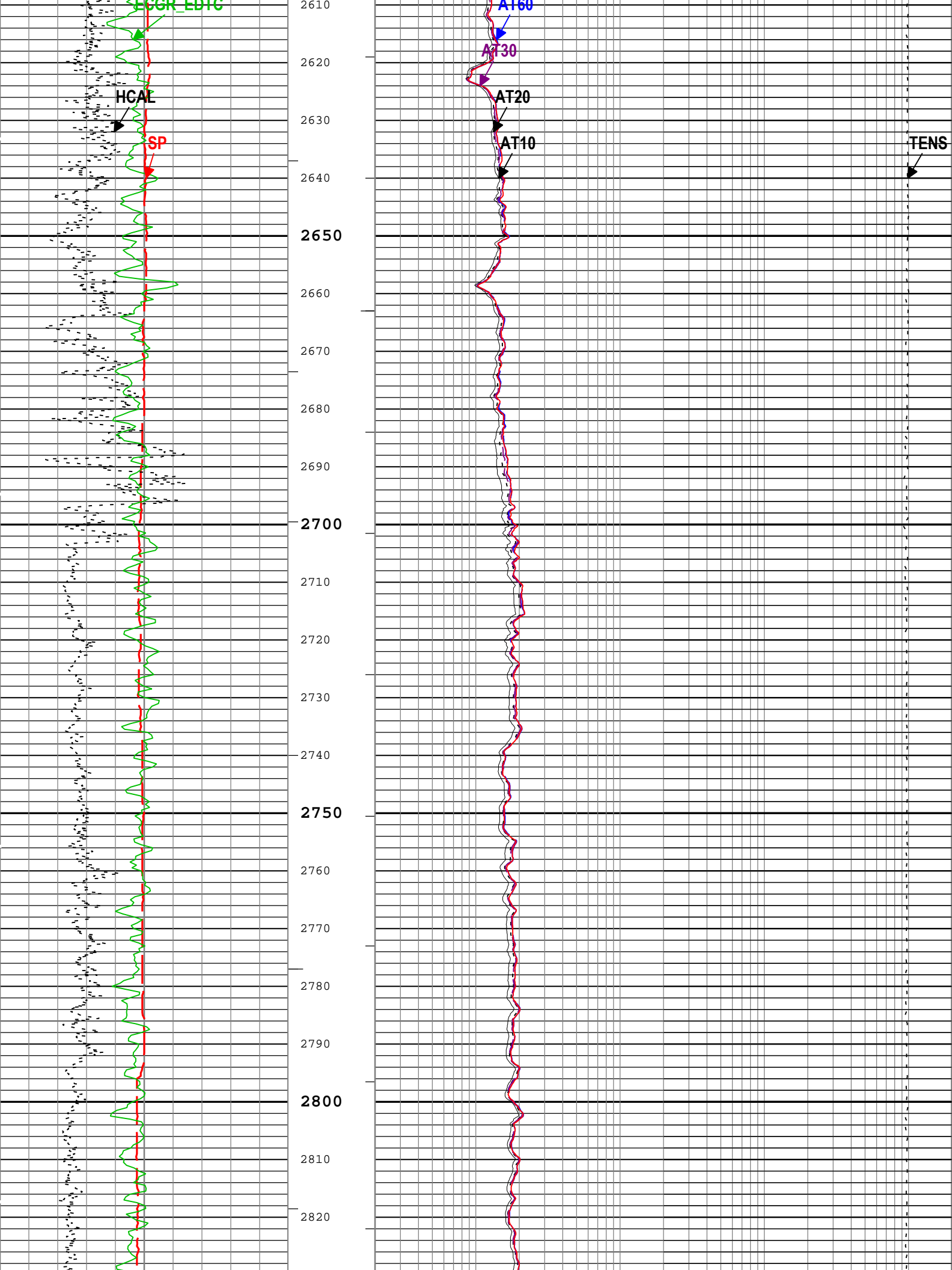


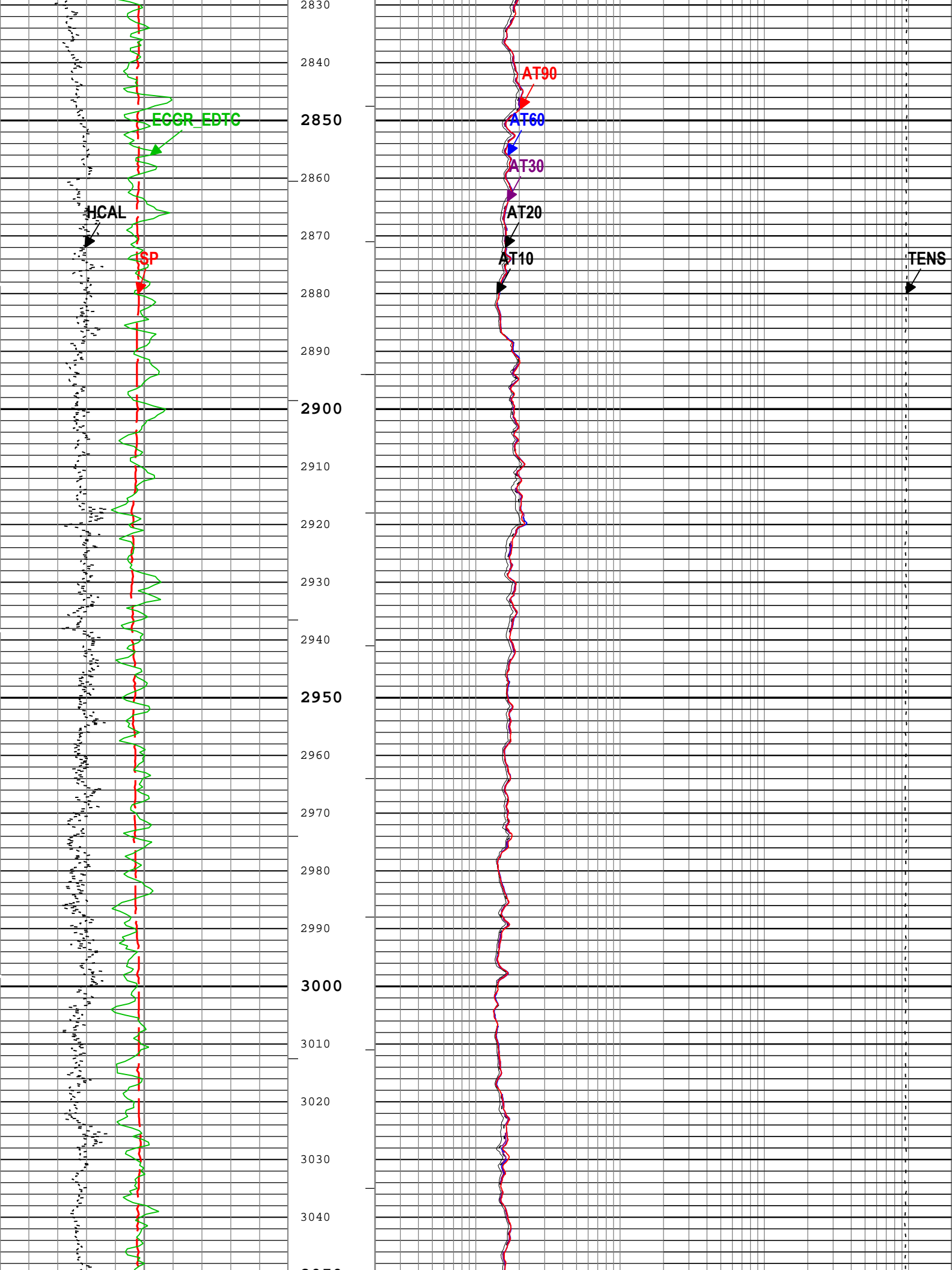


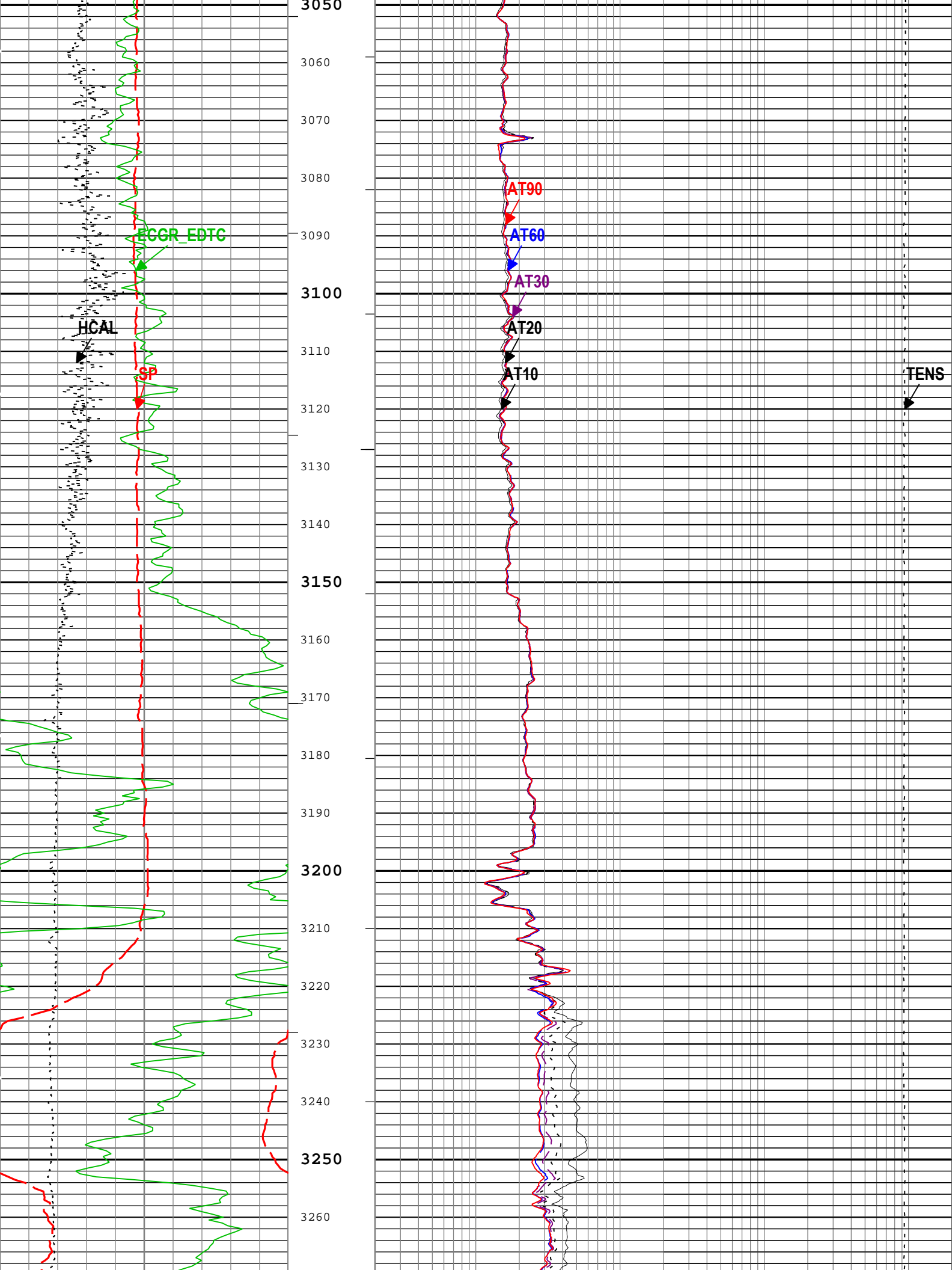


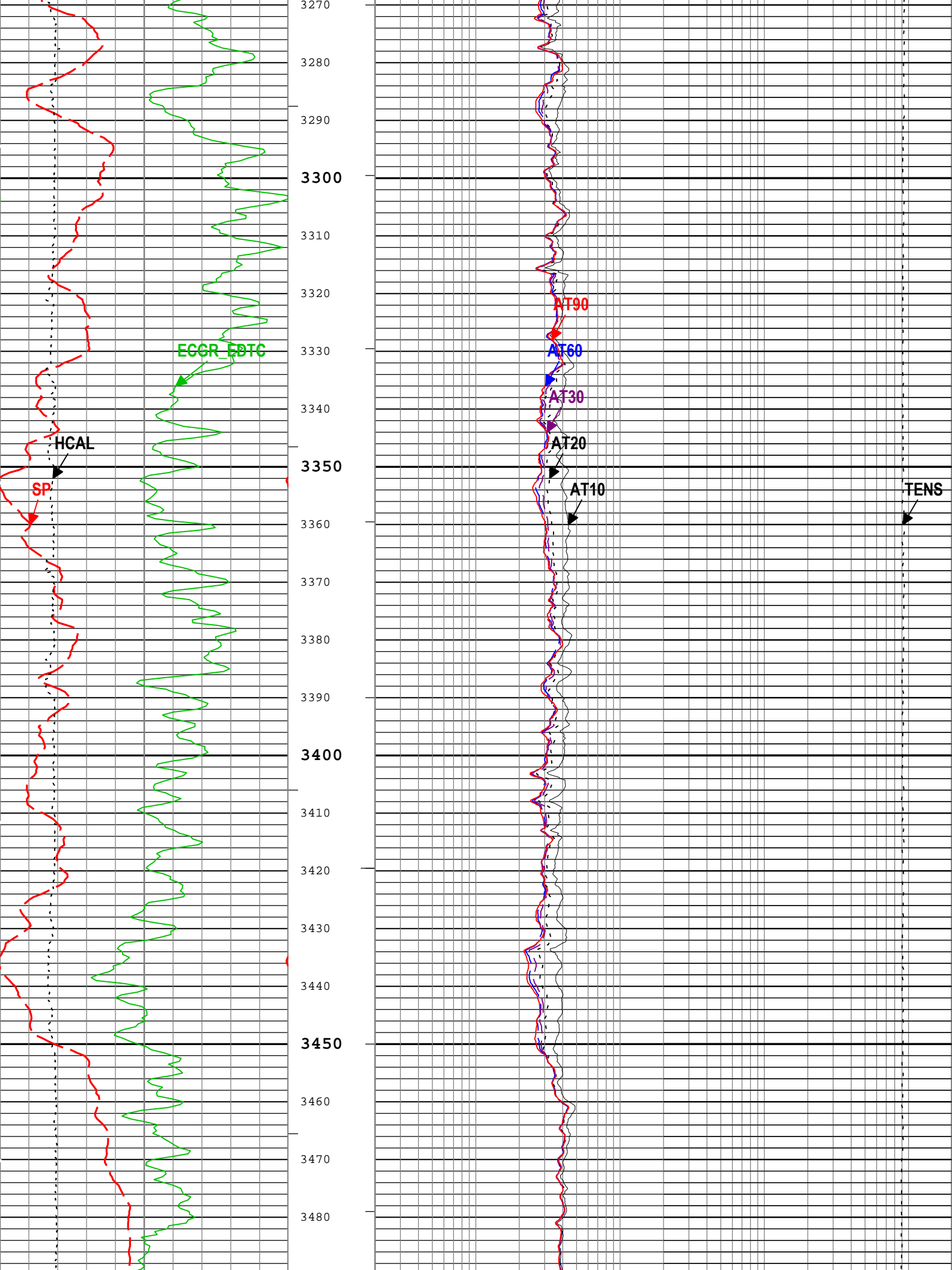


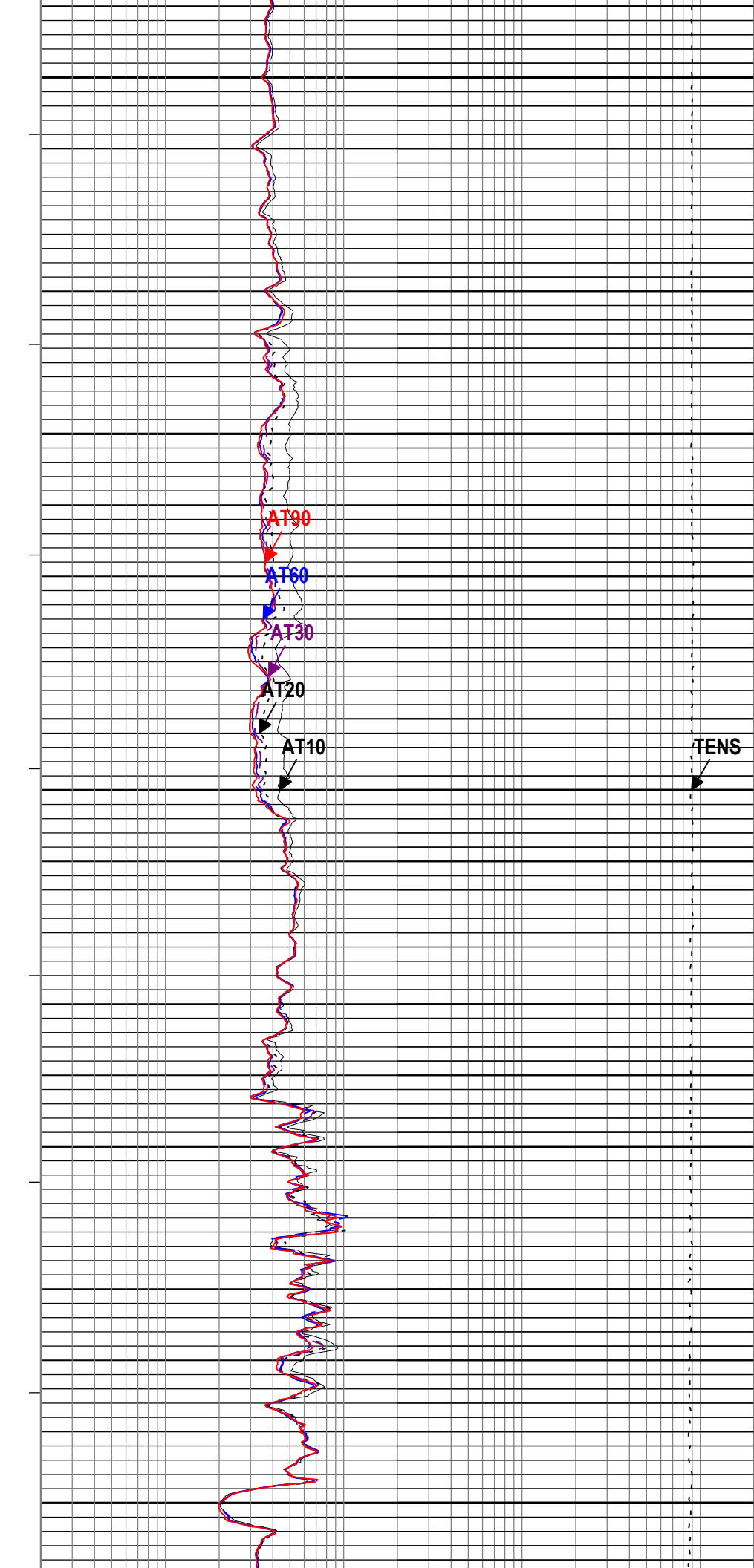
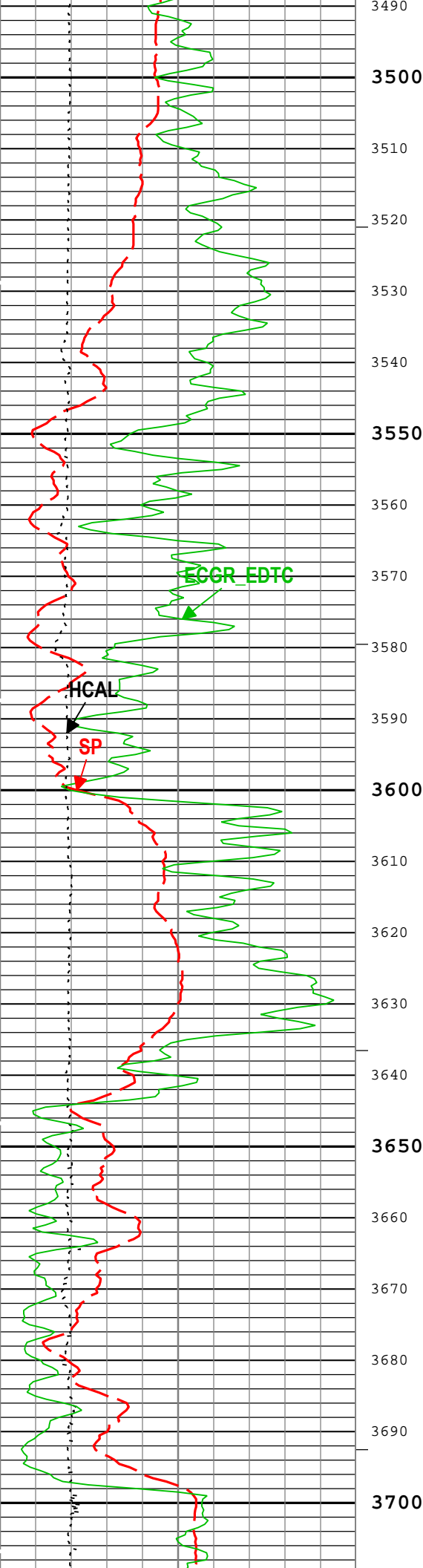


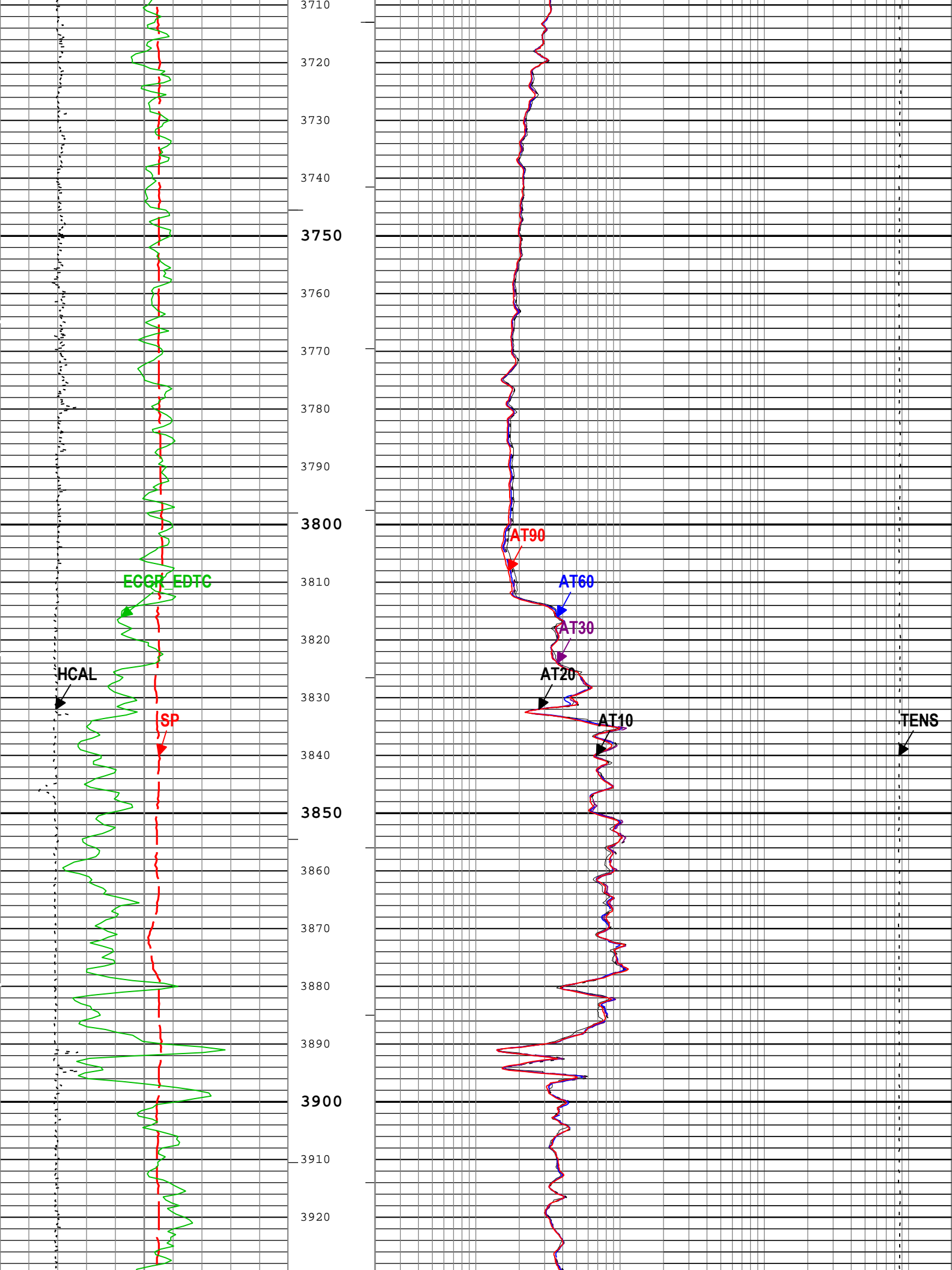


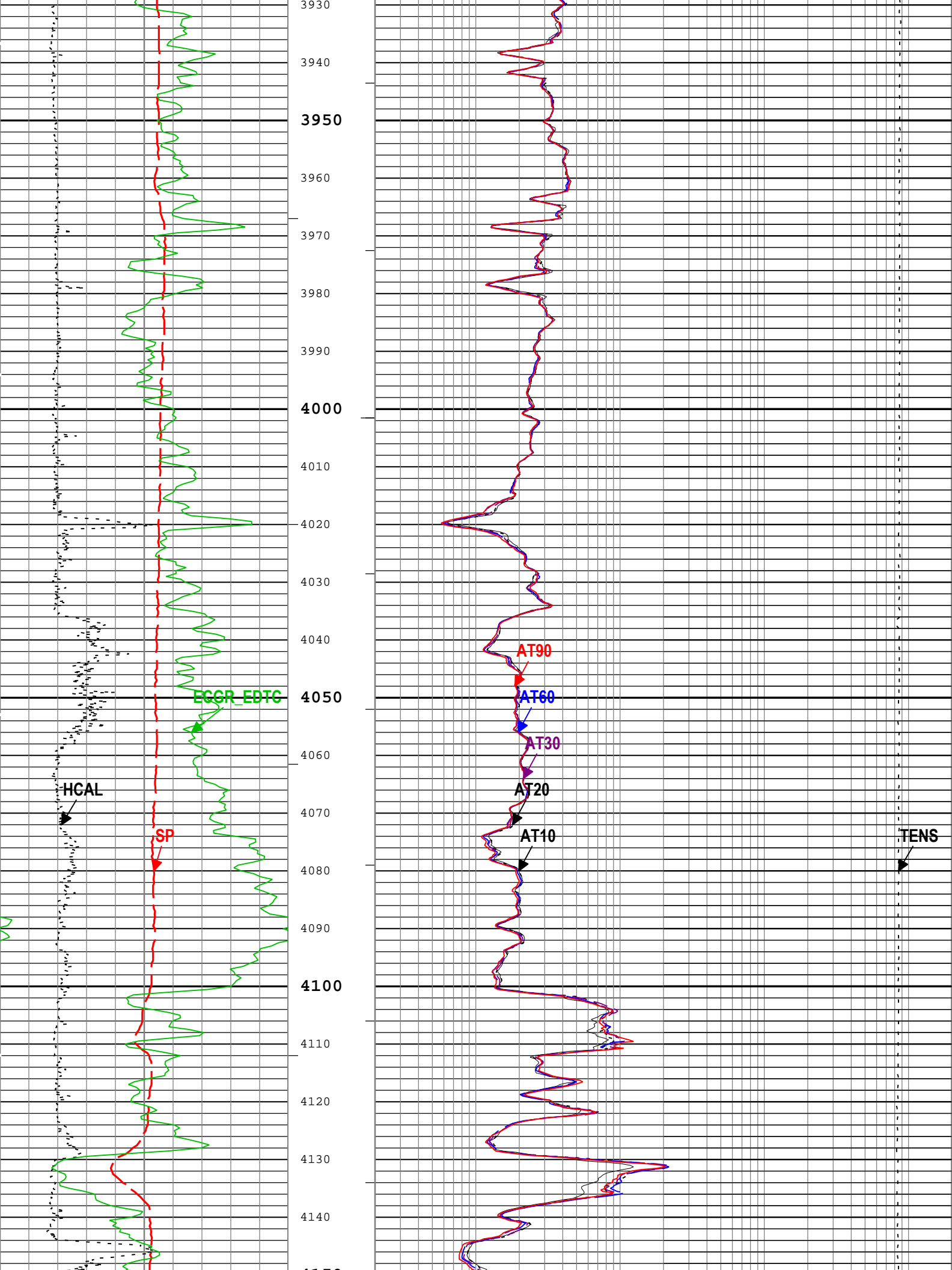


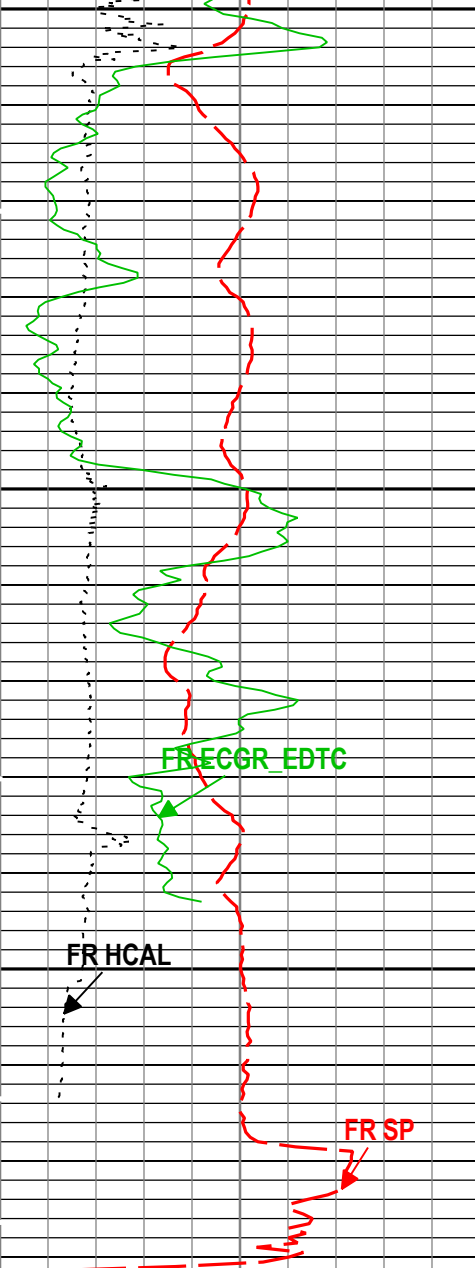




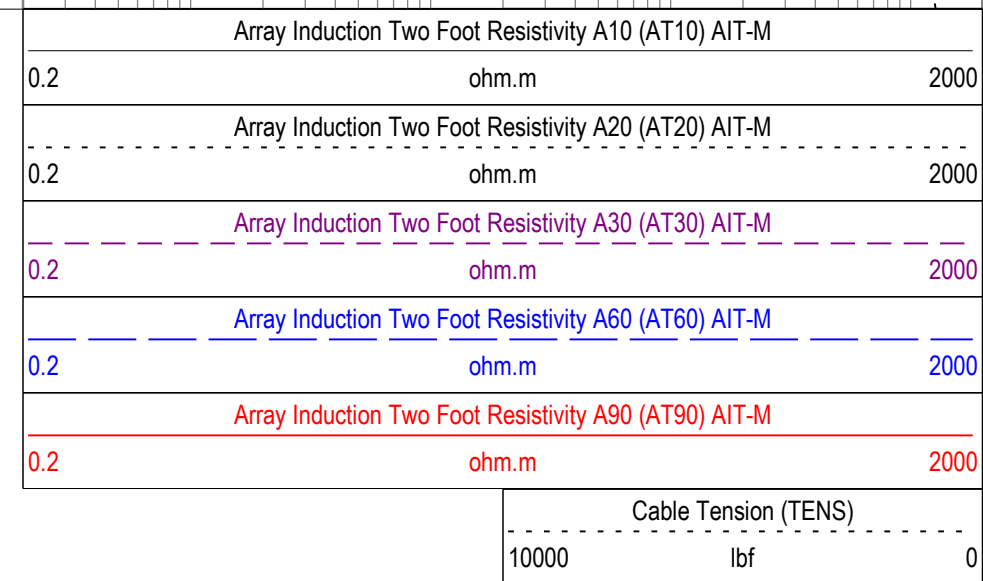
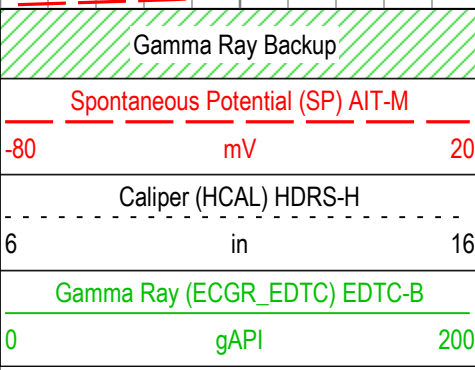
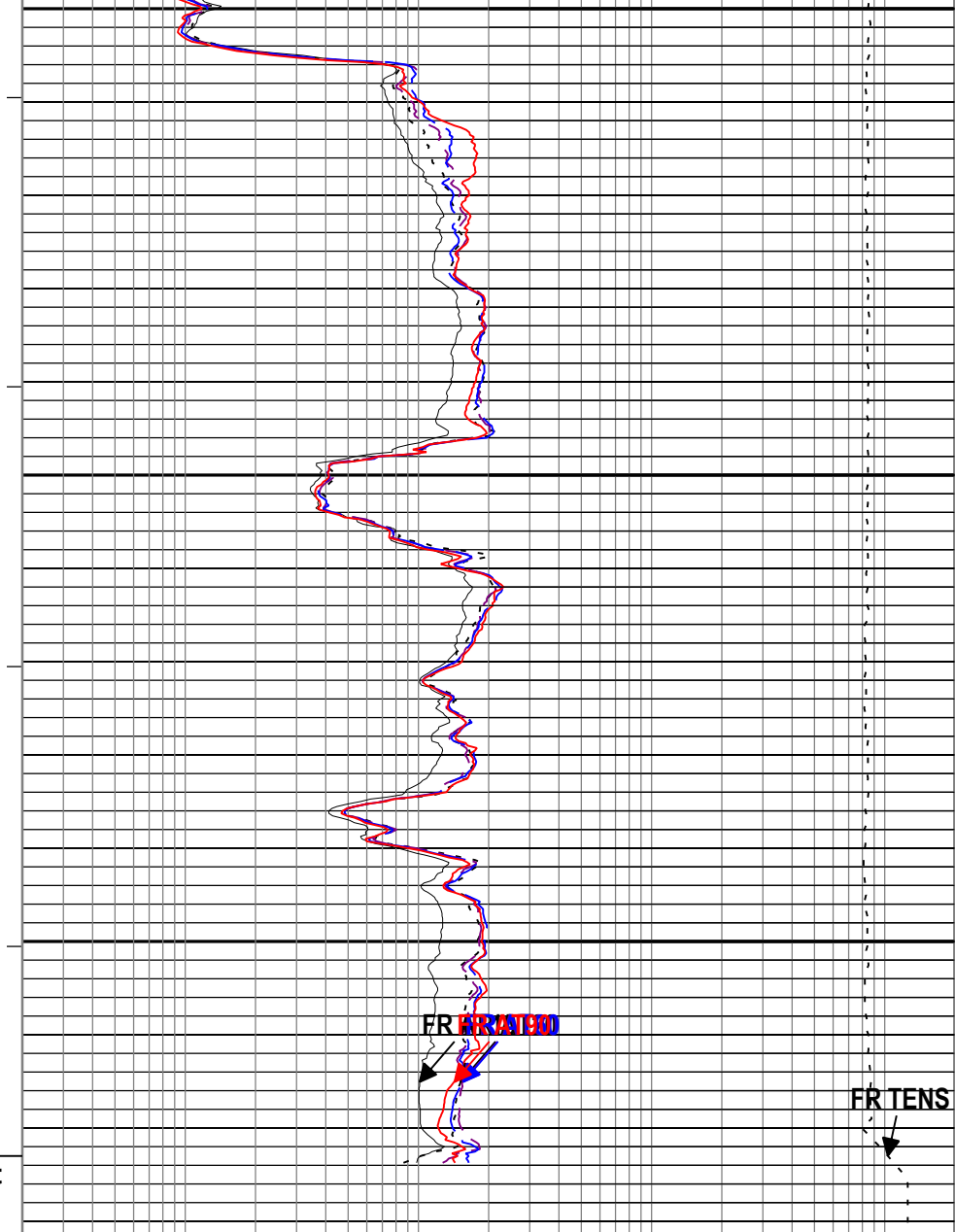








4150
4160
4170
4180
4190
4200
4210
4220
4230
4240
4250
4260
4270
TD
4273.00ft
4280



TIME_1900 - Time Marked every 60.00 (s)

- ICV - Integrated Cement Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- IHV - Integrated Hole Volume every 10.00 (ft3)

Channel Processing Parameters	
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1A: Parameters

Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Mud Resistivity	
ASTA	Array Induction Tool Standoff	AIT-M	0.125	in
ISSBAR	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	475	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	8.625	in
DFD	Drilling Fluid Density	Borehole	8.8	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
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	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
SP_SHIFT	SP Shift	AIT-M	50	mV
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	0	475
BS	7.875	475	4270

All depth are actual.

Tool Control Parameters	
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1A: Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

1A

5" Induction

Pass Summary	
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Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[5]:Up	Up	4021.97 ft	4278.08 ft	21-Jul-2018 3:59:11 PM	21-Jul-2018 4:08:48 PM	ON	1.76 ft	No
1A	Log[6]:Up	Up	43.14 ft	4281.79 ft	21-Jul-2018 4:14:35 PM	21-Jul-2018 5:28:06 PM	ON	2.08 ft	No

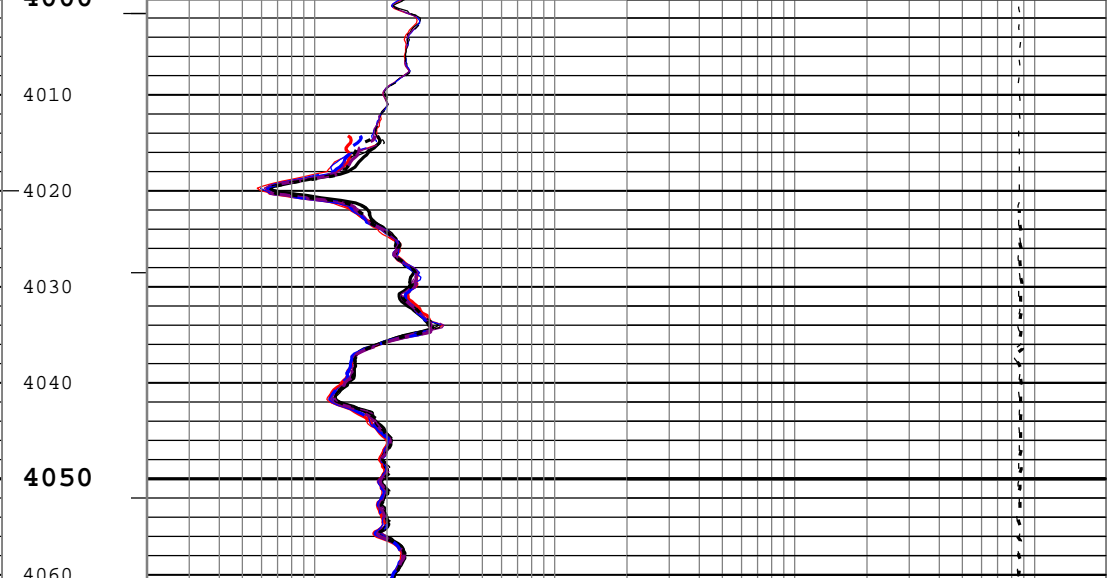
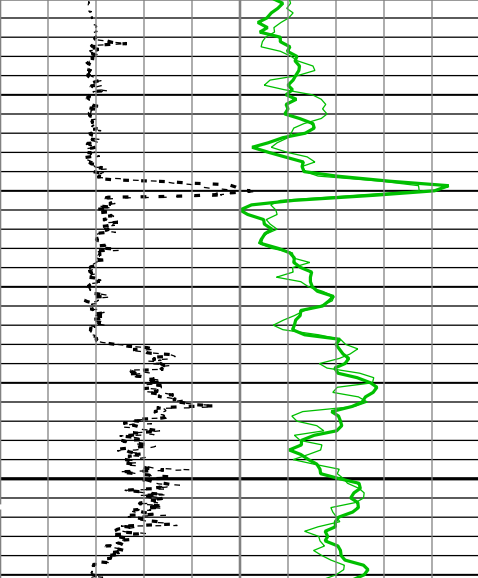
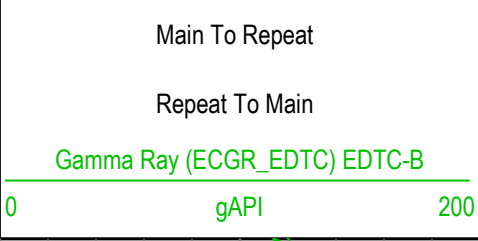
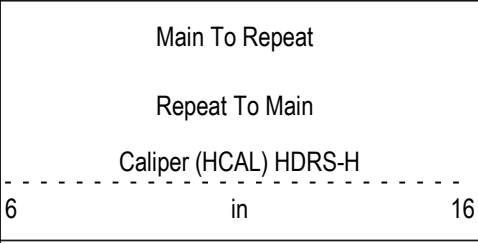
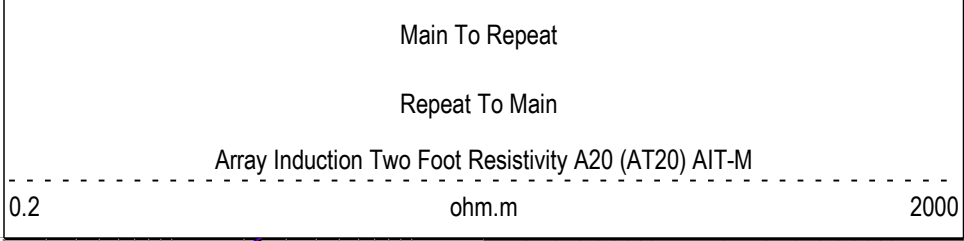
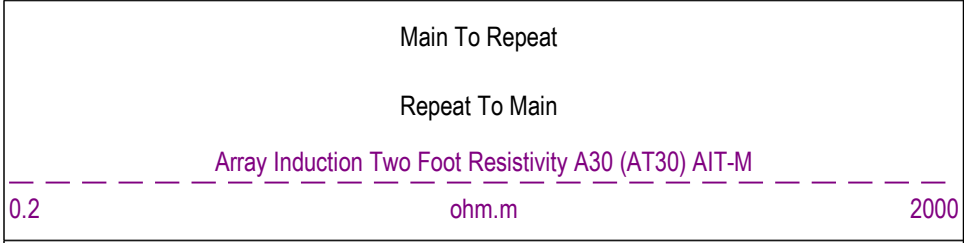
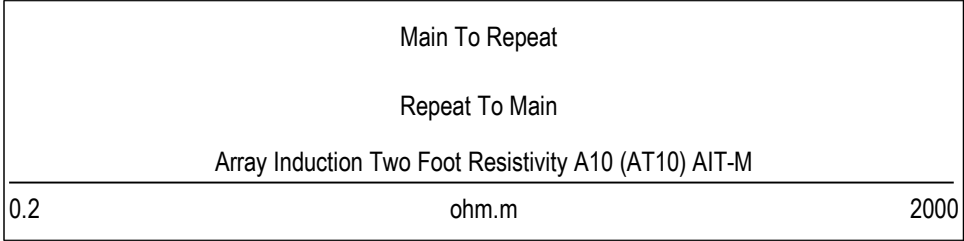
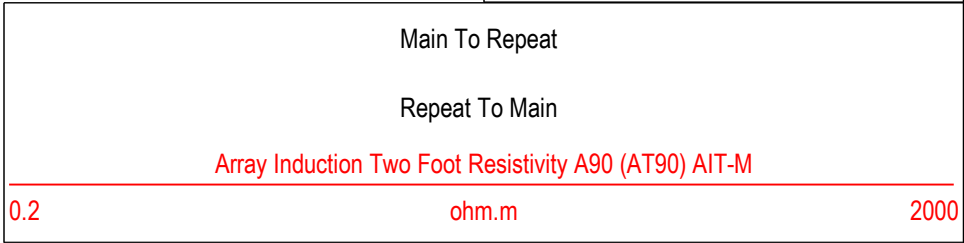
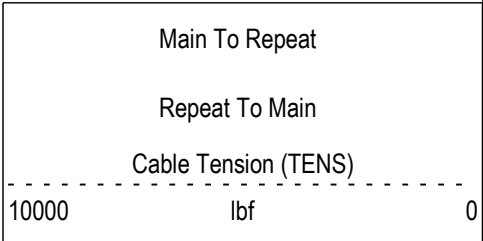
All depths are referenced to toolstring zero

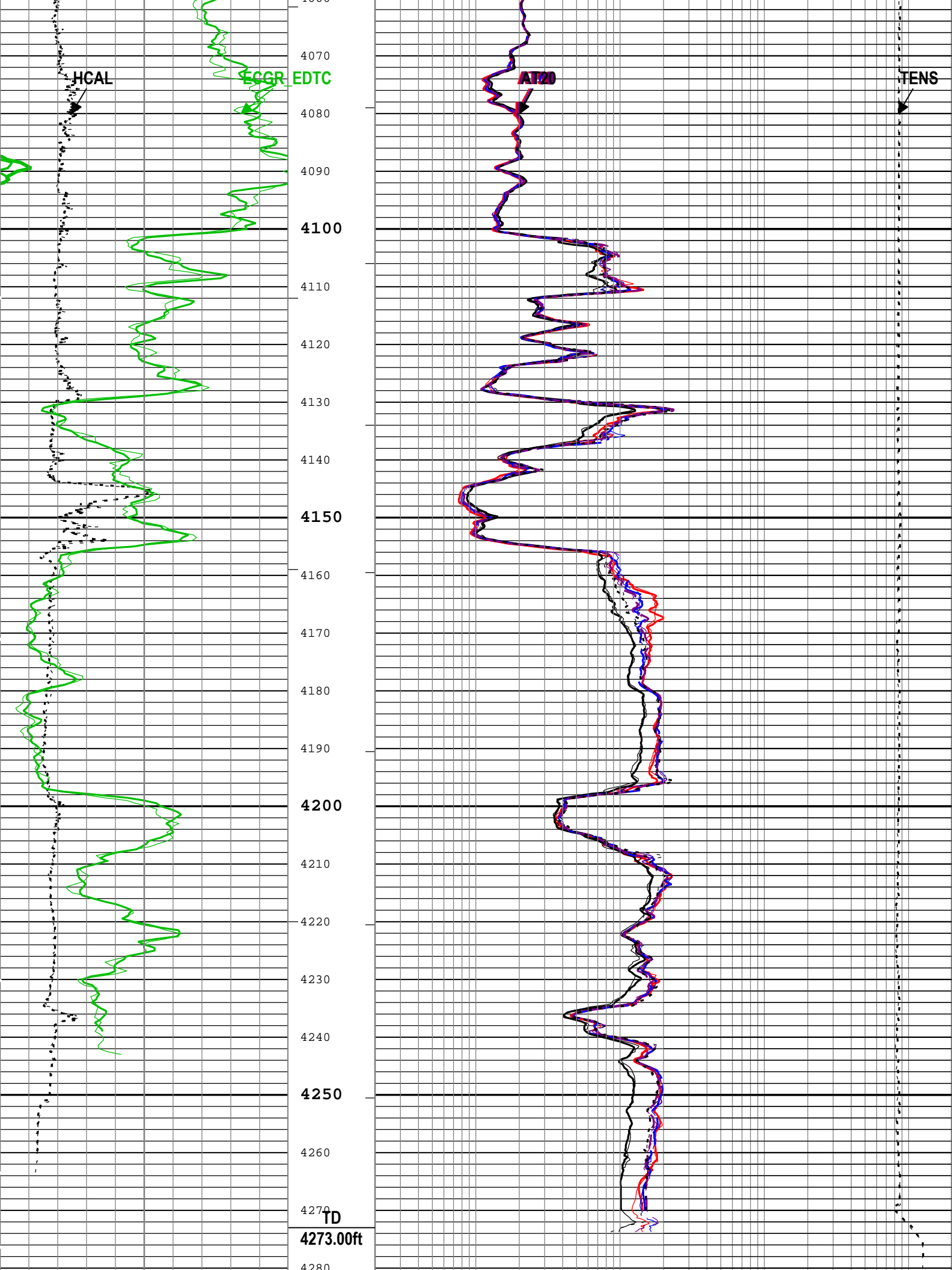
Log	Company:St. Croix Operating, Inc. Well:Jack Creek #1 1A: Log[6]:Up:S005
-----	---

— 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)

TIME_1900 - Time Marked every 60.00 (s)







Thru Cal Phase - 0	deg	Before	-----	137.000	-164.307	-103.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 1	V	Before	-----	0.762	1.276	1.778	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 1	deg	Before	-----	136.000	-165.384	-104.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 2	V	Before	-----	0.372	0.633	0.868	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 2	deg	Before	-----	132.000	-168.919	-108.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 3	V	Before	-----	0.420	0.714	0.980	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 3	deg	Before	-----	131.000	-169.675	-109.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 4	V	Before	-----	0.804	1.338	1.876	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 4	deg	Before	-----	125.000	-175.775	-115.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 5	V	Before	-----	1.176	1.951	2.744	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 5	deg	Before	-----	122.000	-177.433	-118.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 6	V	Before	-----	1.176	1.950	2.744	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 6	deg	Before	-----	121.000	-177.407	-119.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 7	V	Before	-----	0.846	1.403	1.974	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 7	deg	Before	-----	115.000	-178.208	-125.000	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Zero	mV	Before		-50.000	0.095	50.000	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Plus	mV	Before		941.000	990.903	1040.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Zero	V	Before		-0.050	0.000	0.050	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Plus	V	Before		0.870	0.918	0.960	<div><div></div><div></div><div></div><div></div><div></div></div>

HDRS-H (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1A

Primary Equipment :

HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	3973

Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28732
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5471
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	

Calibration Parameter :

Small Ring Size
Large Ring Size

HDRS Density Calibration - Inversion Results

Master (EEPROM): 17:27:48 15-Jul-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Rho Aluminum	g/cm3	Master	2.596	2.586	2.604	2.606	<div><div></div><div></div><div></div><div></div><div></div></div>
Rho Magnesium	g/cm3	Master	1.686	1.676	1.687	1.696	<div><div></div><div></div><div></div><div></div><div></div></div>
Pe Aluminum		Master	2.570	2.470	2.591	2.670	<div><div></div><div></div><div></div><div></div><div></div></div>
Pe Magnesium		Master	2.650	2.550	2.564	2.750	<div><div></div><div></div><div></div><div></div><div></div></div>

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 17:27:48 15-Jul-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
BS Average Deviation	%	Master	0	-0.6000	0.4799	0.6000	<div><div></div><div></div><div></div><div></div><div></div></div>
BS Max Deviation	%	Master	0	-1.6000	1.3212	1.6000	<div><div></div><div></div><div></div><div></div><div></div></div>
SS Average Deviation	%	Master	0	-1.0000	0.8929	1.0000	<div><div></div><div></div><div></div><div></div><div></div></div>
SS Max Deviation	%	Master	0	-2.5000	1.8617	2.5000	<div><div></div><div></div><div></div><div></div><div></div></div>
LS Average Deviation	%	Master	0	-1.5000	1.3096	1.5000	<div><div></div><div></div><div></div><div></div><div></div></div>
LS Max Deviation	%	Master	0	-3.5000	2.7904	3.5000	<div><div></div><div></div><div></div><div></div><div></div></div>

HDRS Density Calibration - Background Summary

Master (EEPROM): 17:27:48 15-Jul-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
BS Window Ratio		Master	1.0000		0.7378		<div><div></div><div></div><div></div><div></div><div></div></div>
BS Window Sum	1/s	Master	1		22130		<div><div></div><div></div><div></div><div></div><div></div></div>

SS Window Ratio		Master	1.0000		0.4838		
SS Window Sum	1/s	Master	1		9630		
LS Window Ratio		Master	1.0000		0.3074		
LS Window Sum	1/s	Master	1		1080		

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 17:27:48 15-Jul-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1460	2400	
SS PM High Voltage	V	Master		1000	1718	2400	
LS PM High Voltage	V	Master		1000	1207	2400	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 17:27:48 15-Jul-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.71	25.00	
SS Crystal Resolution	%	Master		5.00	9.45	20.00	
LS Crystal Resolution	%	Master		5.00	8.18	20.00	

HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run 1A

Primary Equipment :

HILT Gamma-Ray and Neutron Sonde, 150 degC HGNS-H

Auxiliary Equipment :

HGNS Accelerometer, 150 degC HACCZ-H 4168
AmBe Neutron Logging Source NSR-F 5070

Calibration Parameter :

Water Temperature (Calibration Tank Water Temperature) 70.0
Housing Size (Thermal Housing Size) 3.38
JIG-BKG

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM): 18:00:00 14-Jul-2005

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			QAT_160		
Accelerometer Reference Temperature	degF	Master		30.2	77.0	122.0	
Accelerometer Coefficients - 0		Master	-----	-----	1582.500	-----	
Accelerometer Coefficients - 1		Master	-----	-----	35.100	-----	
Accelerometer Coefficients - 2		Master	-----	-----	-0.047	-----	
Accelerometer Coefficients - 3		Master	-----	-----	-0.001	-----	
Accelerometer Coefficients - 4		Master	-----	-----	2.739	-----	
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 7		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 8		Master	-----	-----	298.400	-----	
Accelerometer Coefficients - 9		Master	-----	-----	0.991	-----	

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 14:54:40 15-Jul-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	25.3	40.0	
Far Zero Measurement	1/s	Master	0	5.0	28.3	40.0	
Near Plus Measurement	1/s	Master	6031.0	4700.0	5016.0	6900.0	
Far Plus Measurement	1/s	Master	2793.0	1900.0	2126.0	2900.0	
Near Corrected Plus Measurement	1/s	Master		4700.0	5016.0	6900.0	
Far Corrected Plus Measurement	1/s	Master		1900.0	2114.0	2900.0	

Company: St. Croix Operating, Inc.

Schlumberger

Well: Jack Creek #1

Field: Wildcat

County: Washington

State: Colorado

Platform Express

Array Induction with 5" Logarithmic

