

Company: Gulf Exploration LLC

Well: Black Powder #2

Field: Wattenberg

County: Weld State: Colorado

## Platform Express

## High Resolution Laterolog Array

County: Weld  
Field: Wattenberg  
Location: 600' FSL & 1900' FWL  
Well: Black Powder #2  
Company: Gulf Exploration LLC

600' FSL & 1900' FWL	Elev.:	K.B.	4861.00 ft
Section 10, Township 7N, Range 63W		G.L.	4838.00 ft
		D.F.	4860.00 ft
Permanent Datum:	Ground Level	Elev.:	4838.00 f
Log Measured From:	Kelly Bushing	23.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:
05-123-47681	10	7N	63W

Logging Date 21-Aug-2020

Run Number 1A

Depth Driller 8900.00 ft

Schlumberger Depth 8890.00 ft

Bottom Log Interval 8890.00 ft

Top Log Interval 870.00 ft

Casing Driller Size @ Depth 9.625 in @ 878.00 ft

Casing Schlumberger 878 ft

Bit Size 8.75 in

Type Fluid In Hole Water

Density Viscosity 9 lbm/gal 37 s

Fluid Loss PH 0 cm3 8.5

MUD Source of Sample 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

RM @ BHT RMF @ BHT 0.07 @ 209 0.05 @ 209

Max Recorded Temperatures 209 degF

Circulation Stopped Time 20-Aug-2020 22:00:00

Logger on Bottom Time 21-Aug-2020 04:30:00

Unit Number Location: 9108 Fort Morgan

Recorded By Caroline Ibrahim

Witnessed By Jeff Petty

## Disclaimer

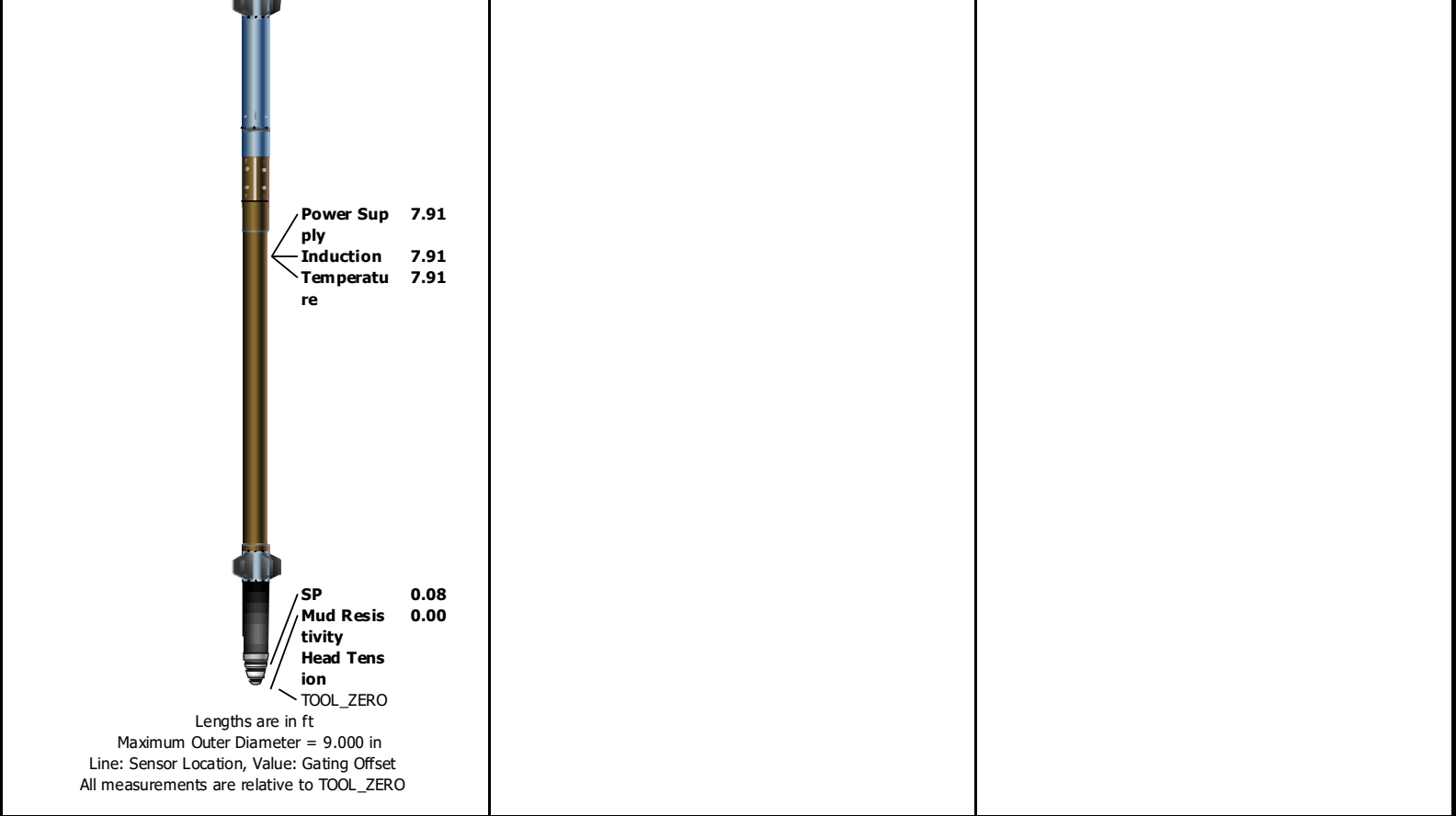
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Remarks and Equipment Summary

1A: Toolstring				1A: Remarks
Equip name	Length	MP name	Offset	Tool was run as per tool sketch All logging intervals as per client request. Repeat TD-8550'. Main Pass TCOM TD-7300', Induction/ GR TD-surface Thank you for choosing Schlumberger Sandstone matrix used, 2.65 g/cc
LEH-QT LEH-QT	51.64			
EDTC-B EDTH-B EDTG-A EDTC-B	48.15			
HGNS-H HGNH NSR-F:5203 NPV-N HACCZ-H:153 7 HMCA-H HGNS-H	41.65			
		CTEM	44.65	
		ACCZ	0.00	
		HV	0.00	
		Gamma Ra	42.78	
		y		
		TelStatus	41.65	
		Temperatu	41.62	
		re		
		GR	40.91	
		CNL Poros	34.58	
		ity		
		HMCA	32.24	
		HGNS	32.24	
		Accelerom	0.00	
		eter		
HDRS-H ECH-MEB HRCC-H HRMS-H GPV-Q Short Spacing HRGD-H:3967 Long Spacing GSR-J:5534 Backscatter	32.24			
		HRCC	28.24	
		MCFL	22.81	
		Caliper	22.32	
		TLD Densi	21.94	
		ty		
AH-184[2]	20.00			
AH-184[1]	18.00			
AIT-M:138 AMIS:138 AMRM:138	16.00			



Depth Summary			
	1A		
Depth Measuring Device			
Type	IDW-B		
Serial Number	7234		
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type	7-39PI-XS		
Wheel Correction 1	0		
Wheel Correction 2	0		
Tension Device			
Type	CMTD-B/A		
Serial Number	1703		
Calibration Date	20-Aug-2020		
Calibrator Serial Number	78135A		
Number of Calibration Points	10		
Calibration Root Mean Square Error	11		
Calibration Peak Error	20		
Logging Cable			
Type	7-39PI-XS		
Serial Number	F719131		
Length	24000.00 ft		
Conveyance Type	Wireline		
Rig Type			
1A:Depth Control Parameters		Depth Control Remarks	

Log Sequence	First Log In the Well	Schlumberger depth control procedures followed
Rig Up Length At Surface		IDW used as primary depth control system
Rig Up Length At Bottom		Z-Chart used as secondary depth control system
Rig Up Length Correction		
Stretch Correction		
Tool Zero Check At Surface		

1A

Main Pass 5"=100'

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[3]:Up	Up	14.67 ft	8902.95 ft	21-Aug-2020 6:18:14 AM	21-Aug-2020 9:02:46 AM	ON	0.00 ft	No

All depths are referenced to toolstring zero

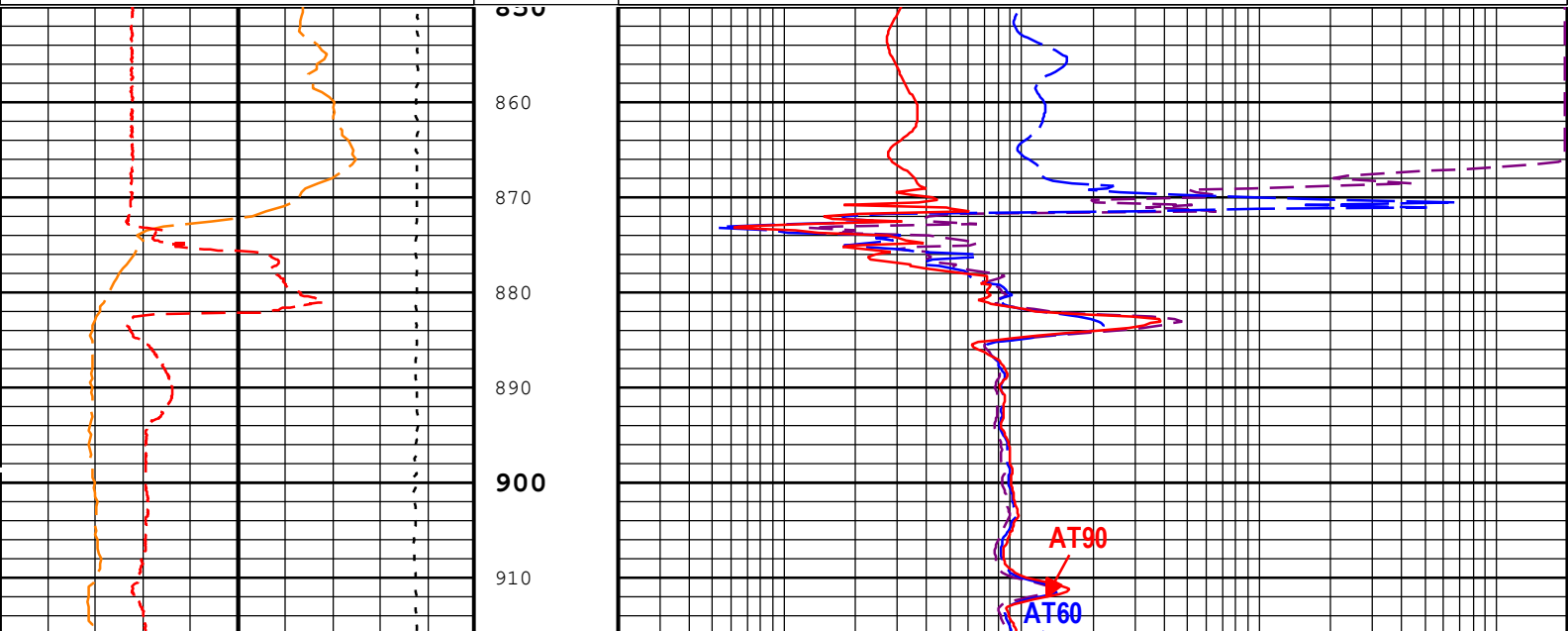
Log	Company:Gulf Exploration LLC	Well:Black Powder #2
		1A: Log[3]:Up:S003

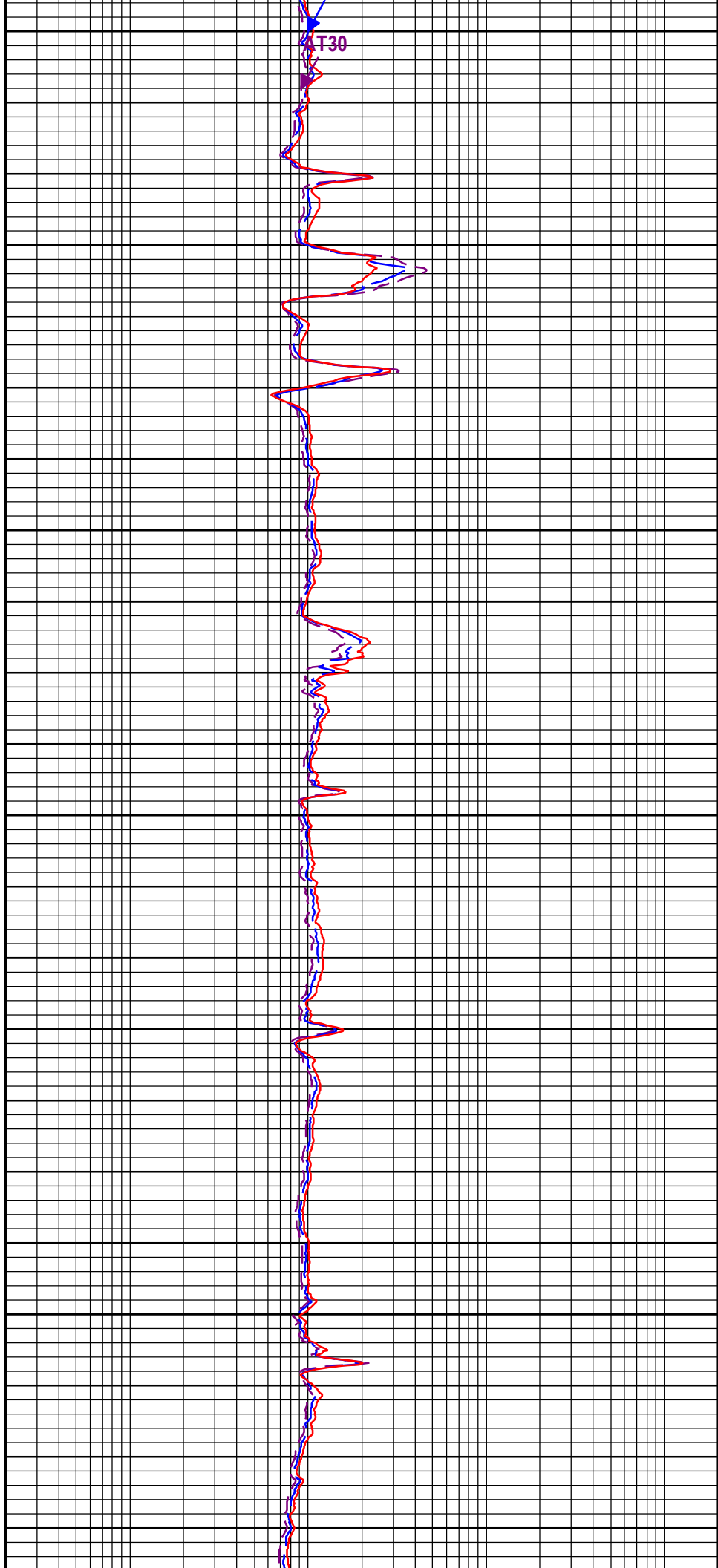
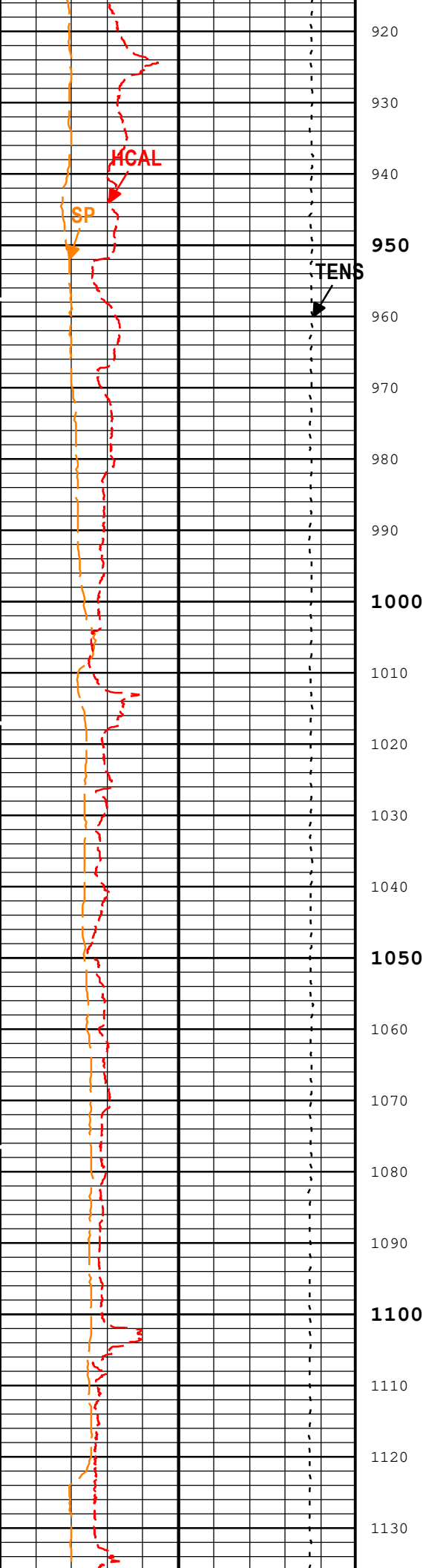
Description: HRLT BASIC LOG    Format: Log ( HRLA\_5\_Inch )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 21-Aug-2020 09:14:26

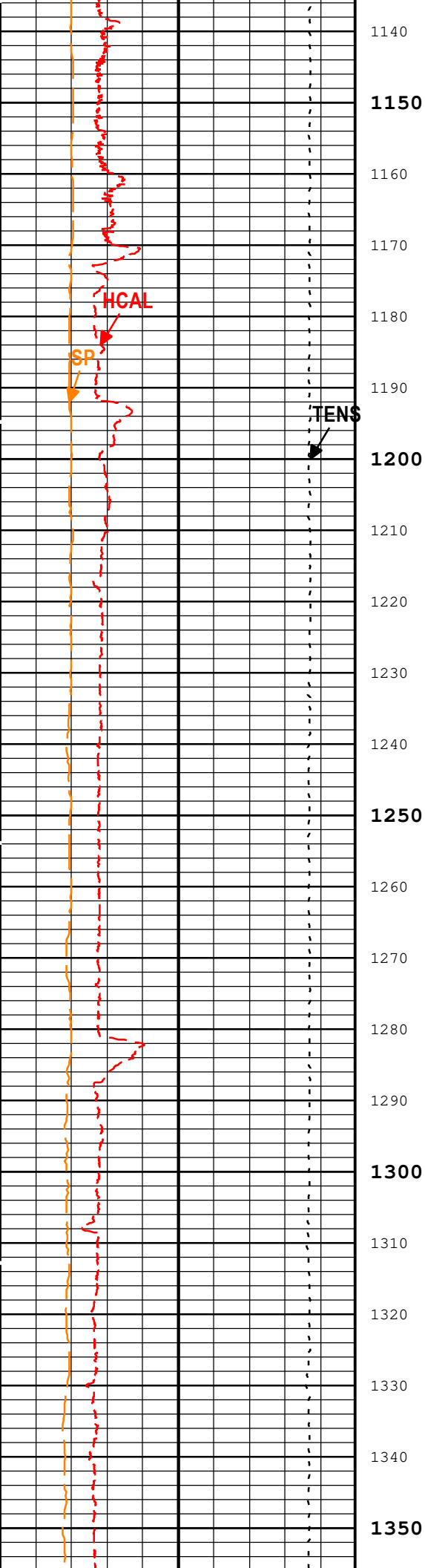
Channel	Source	Sampling
AT30	AIT-M:AMIS:AMIS	3in
AT60	AIT-M:AMIS:AMIS	3in
AT90	AIT-M:AMIS:AMIS	3in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
SP	AIT-M:AMIS:AMIS	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

TIME\_1900 - Time Marked every 60.00 (s)

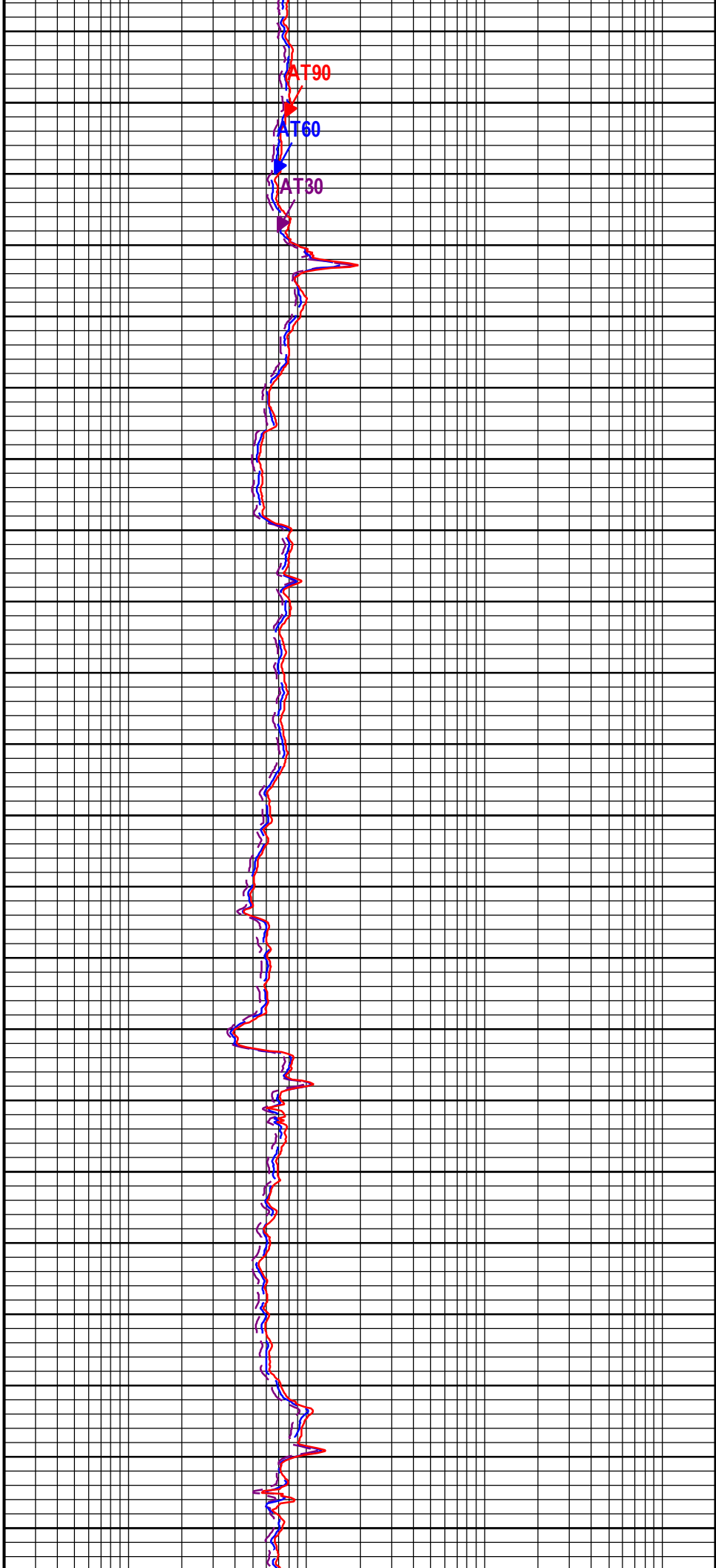
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<div> <div>Spontaneous Potential (SP) AIT-M</div> <div>-80                      mV                      20</div> </div>	<div> <div>Array Induction Two Foot Resistivity A60 (AT60) AIT-M</div> <div>0.2                      ohm.m                      2000</div> </div>
<div> <div>Caliper (HCAL) HDRS-H</div> <div>6                      in                      16</div> </div>	<div> <div>Array Induction Two Foot Resistivity A90 (AT90) AIT-M</div> <div>0.2                      ohm.m                      2000</div> </div>

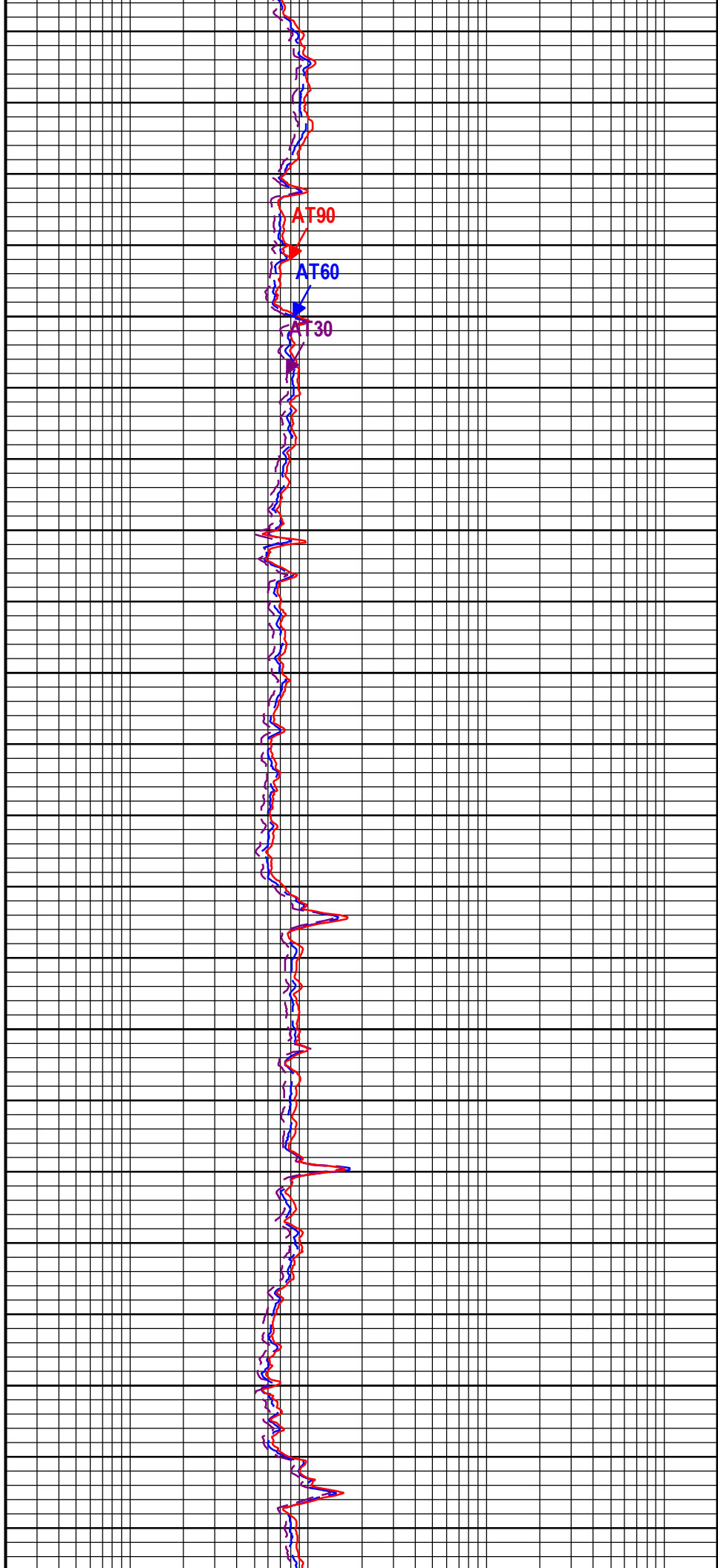
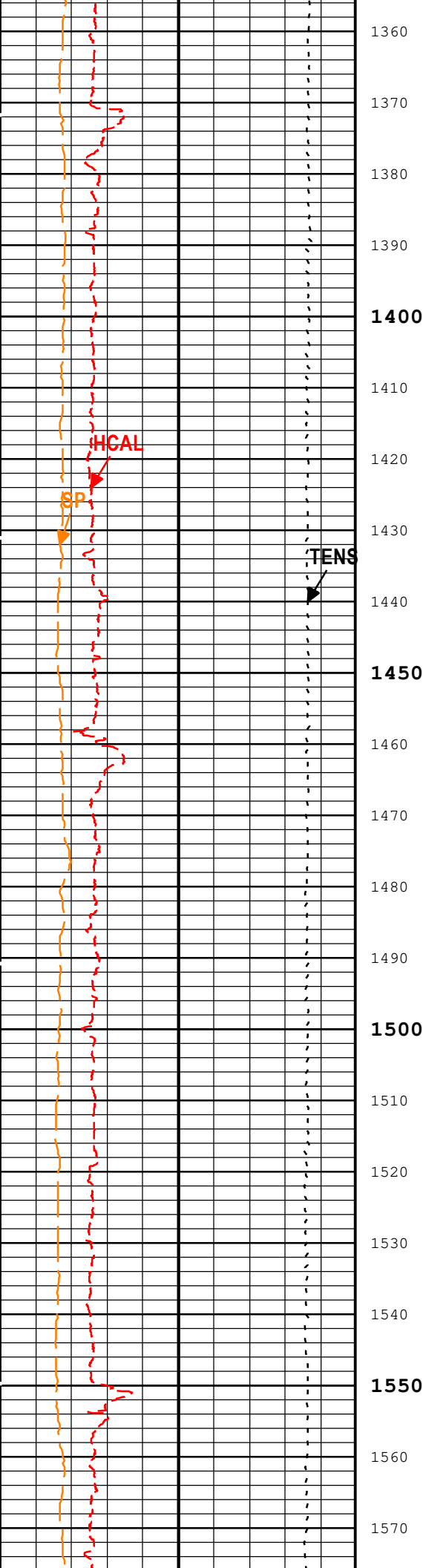


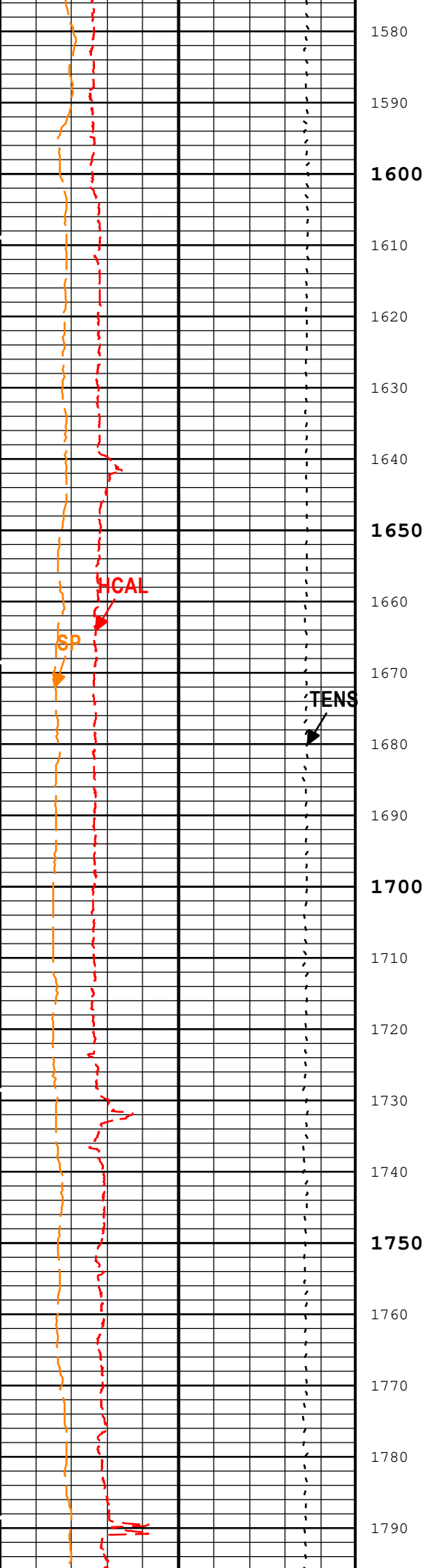




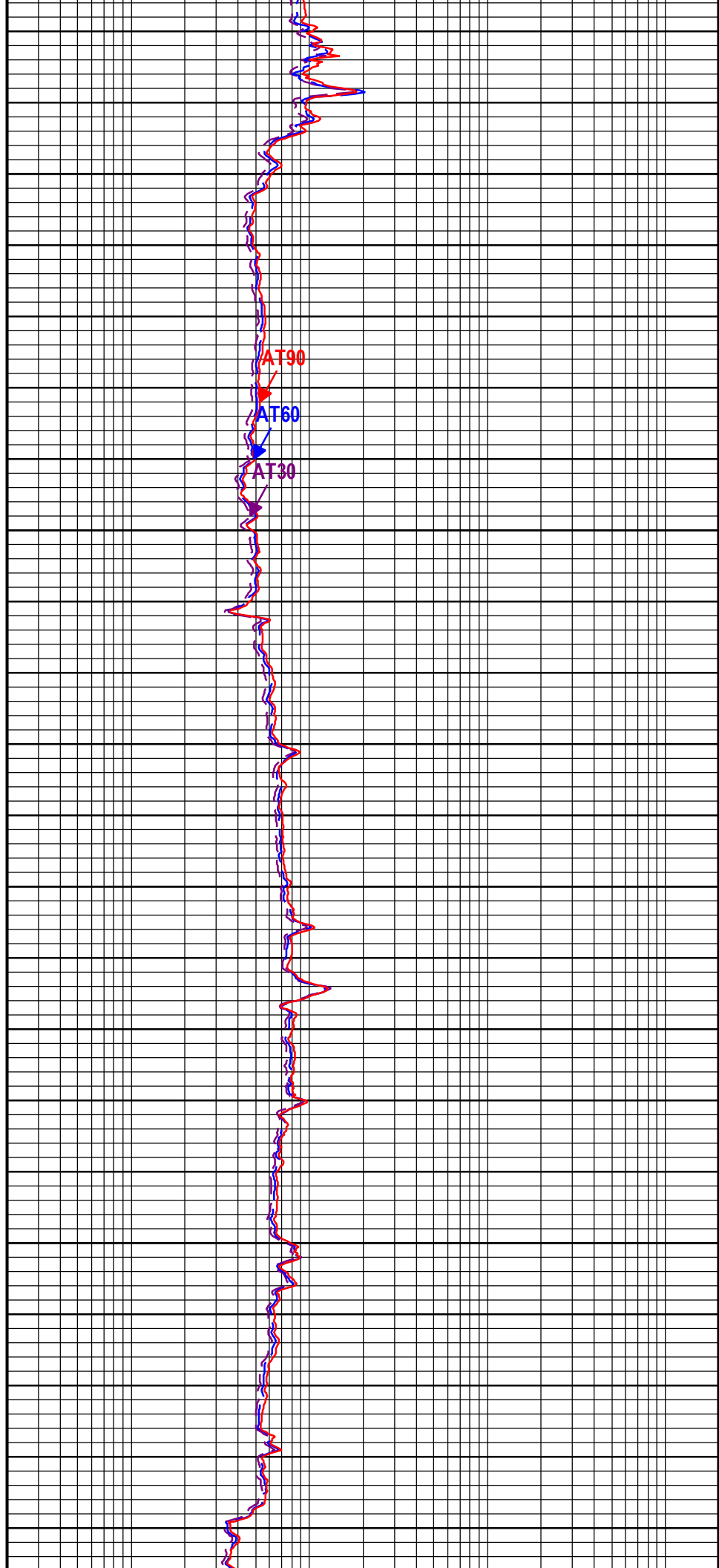
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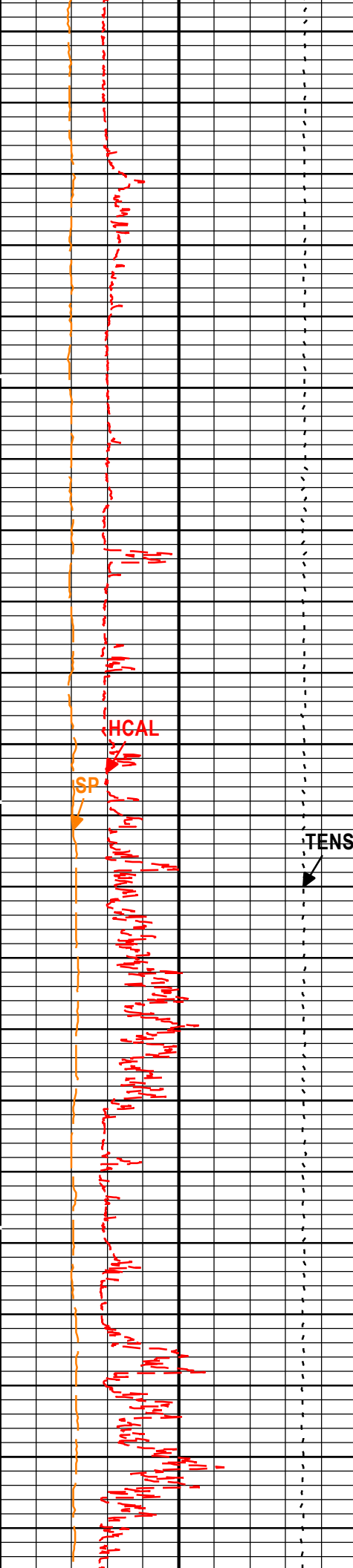




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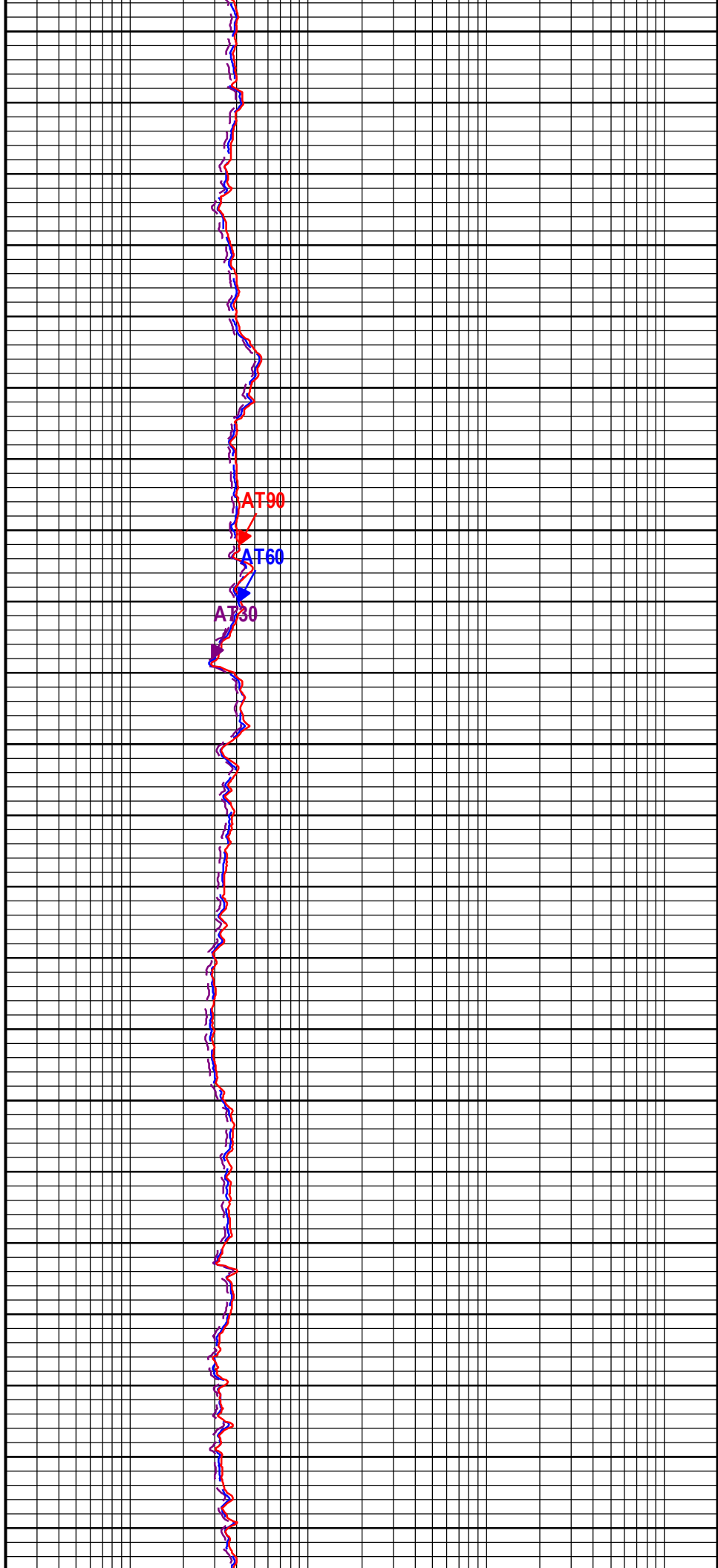
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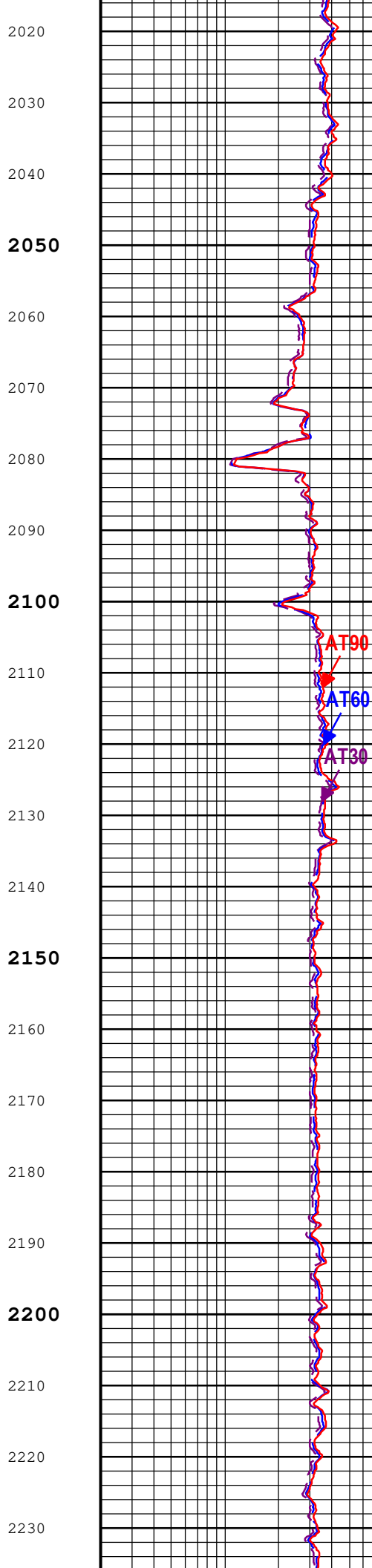
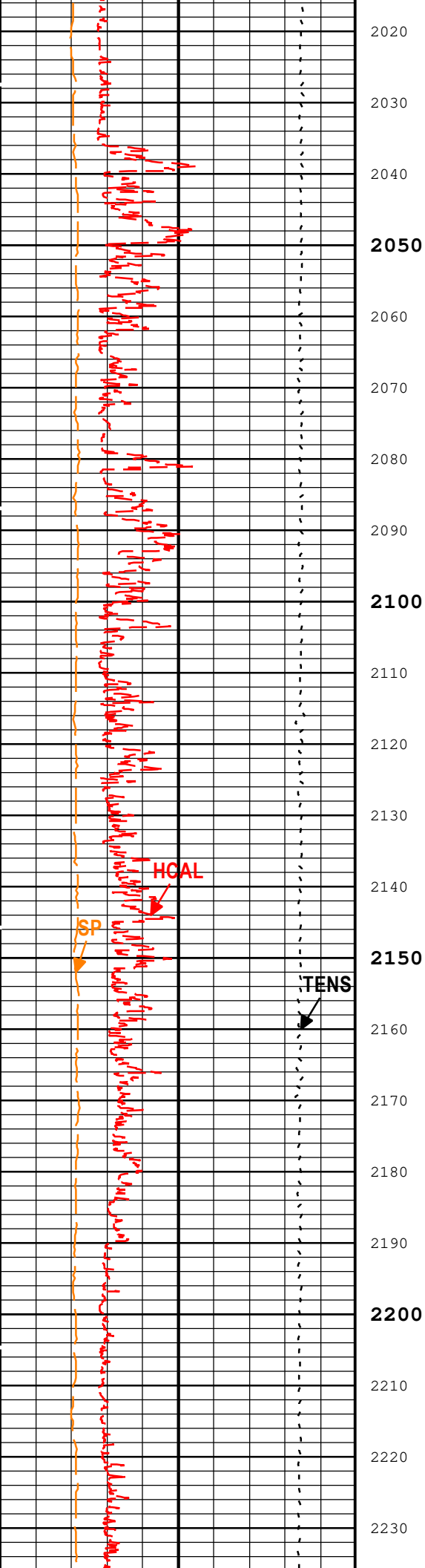
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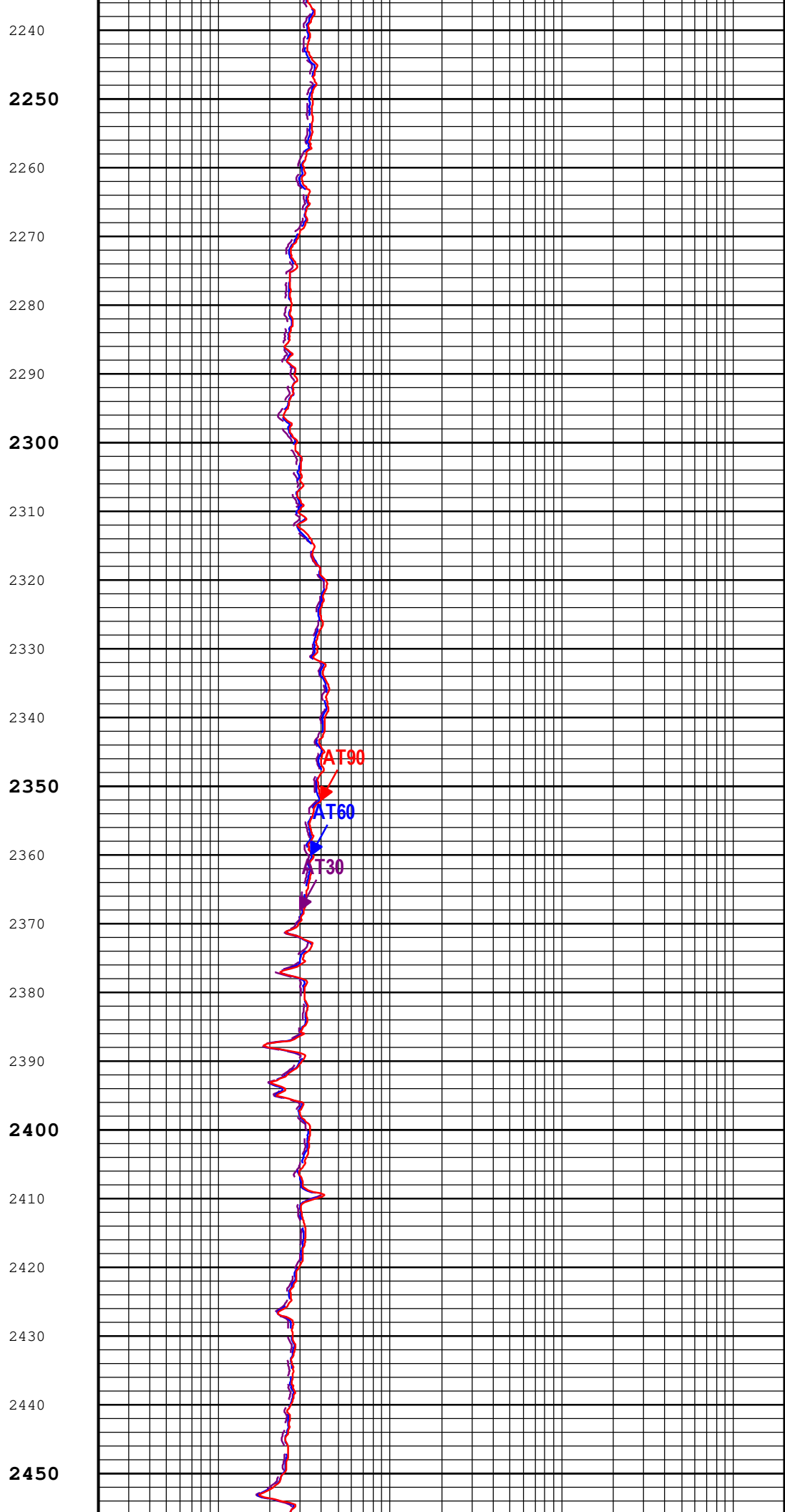
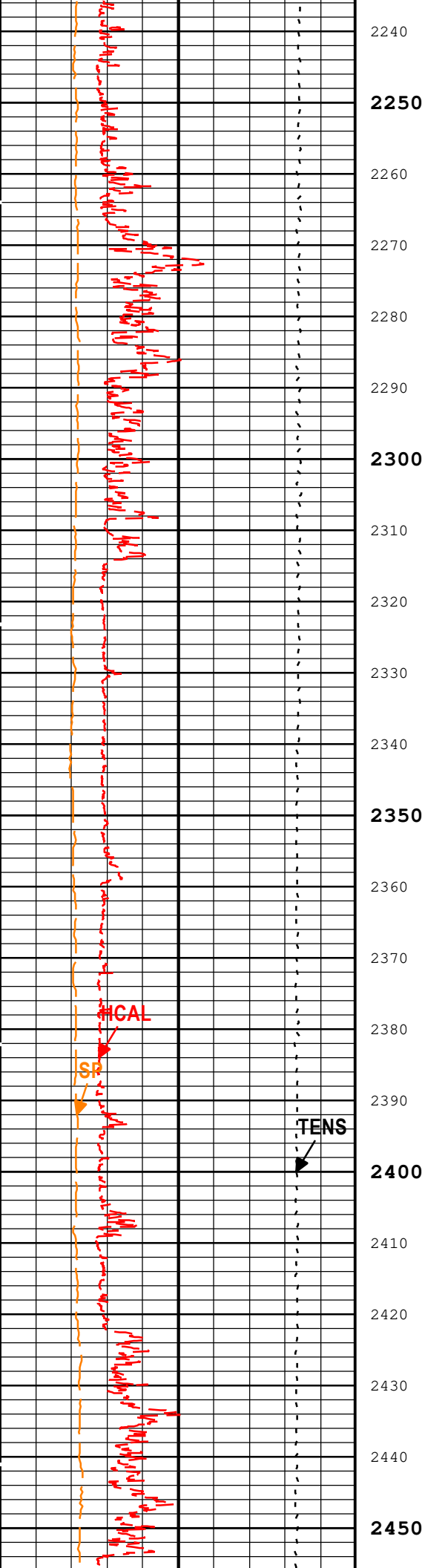
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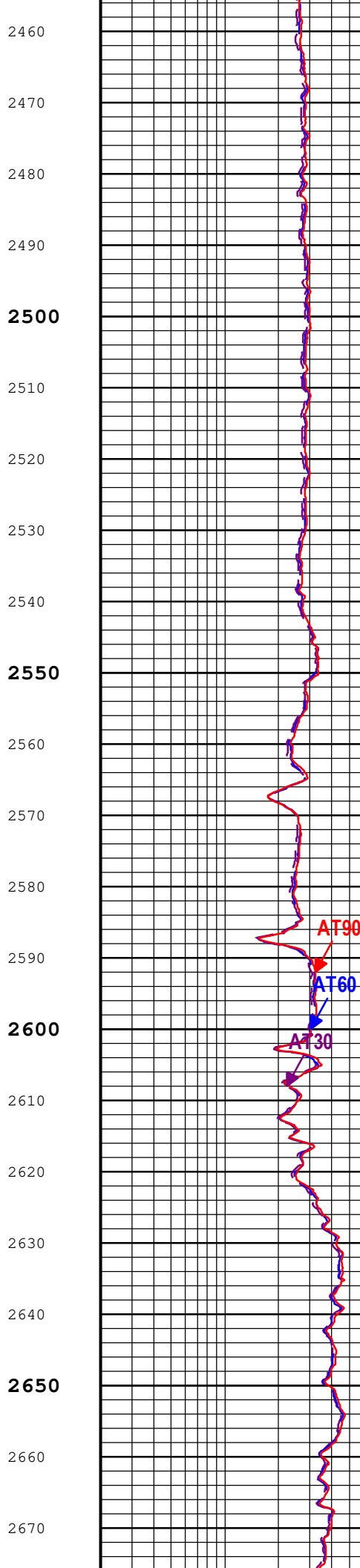
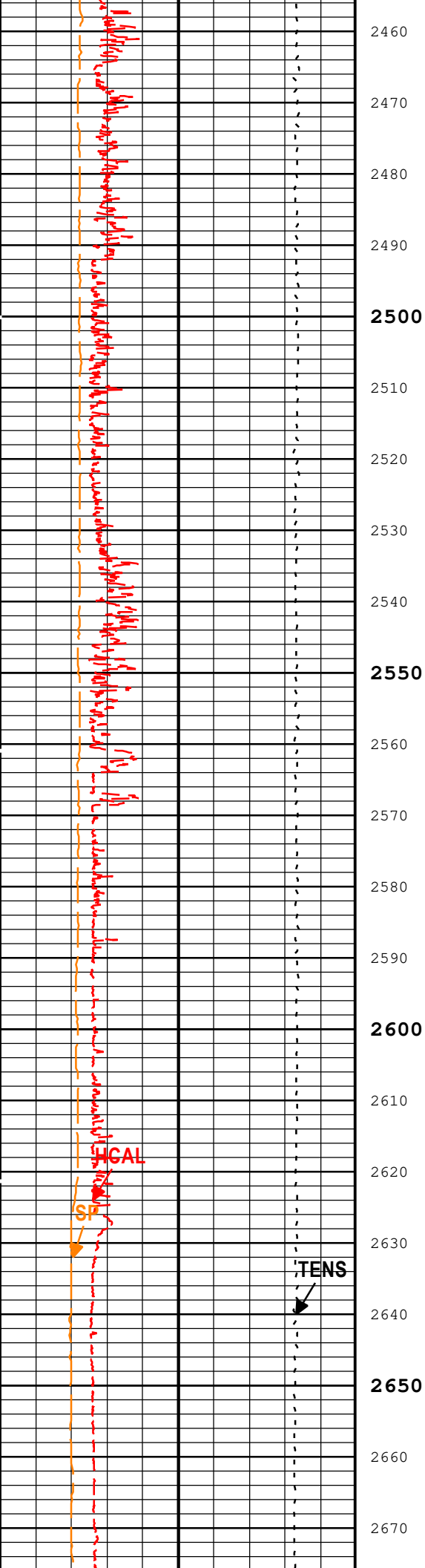
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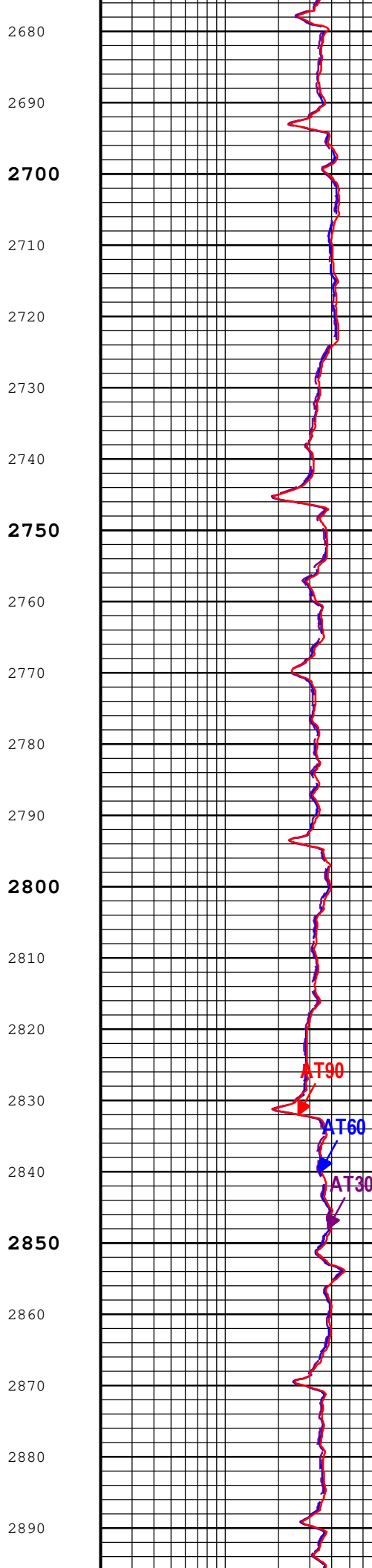
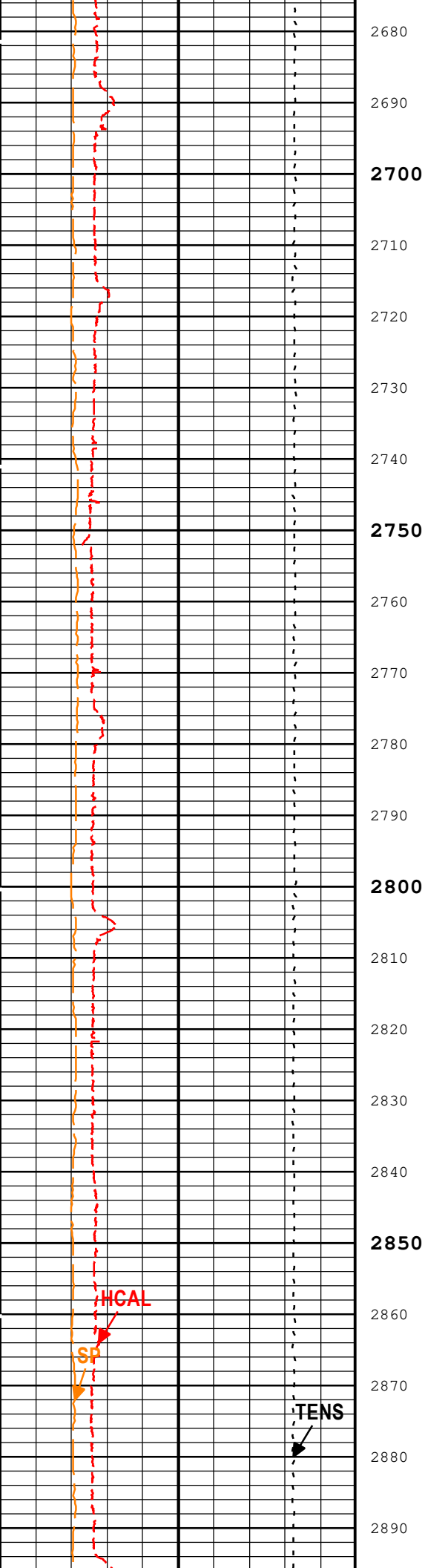
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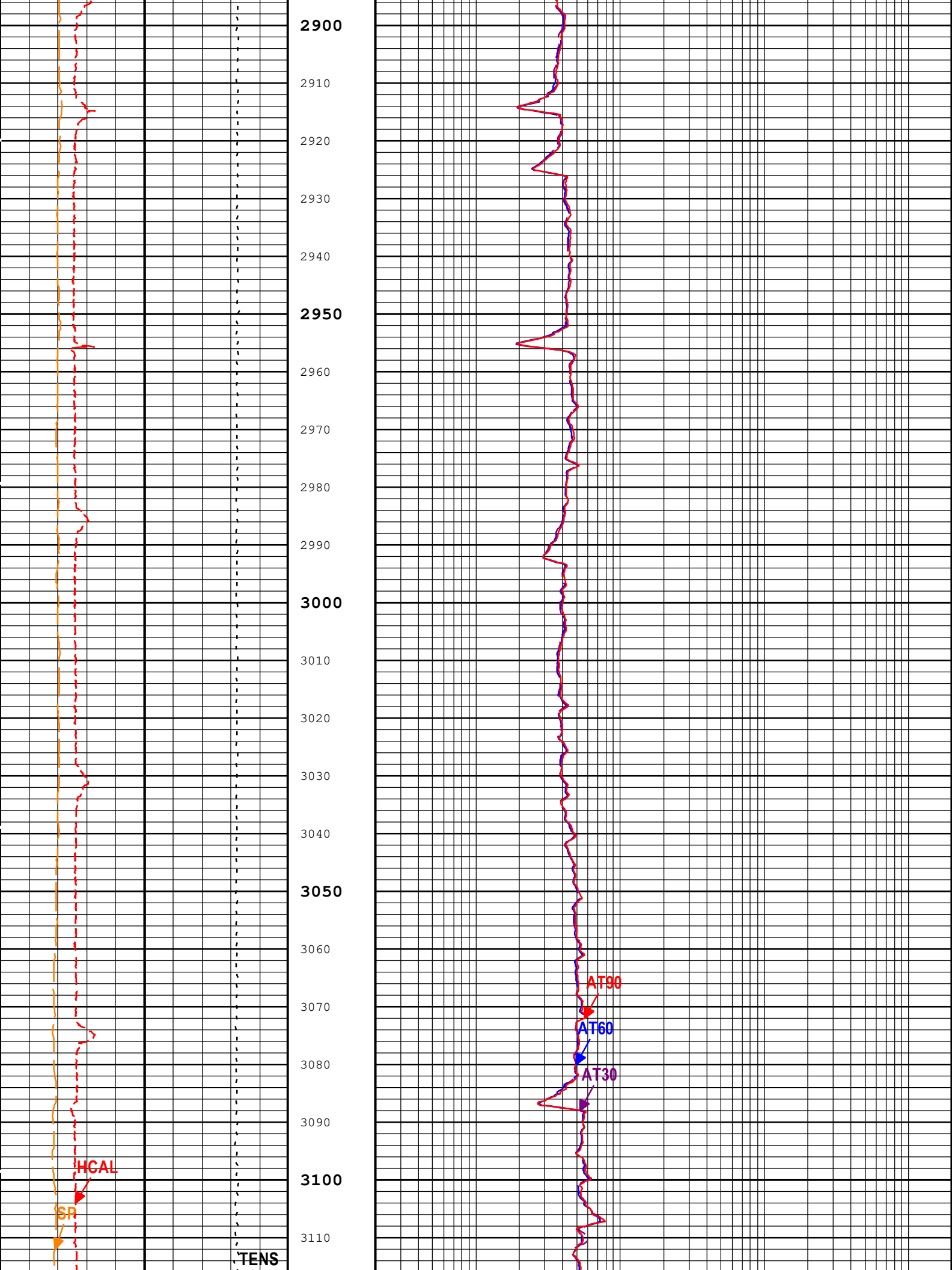


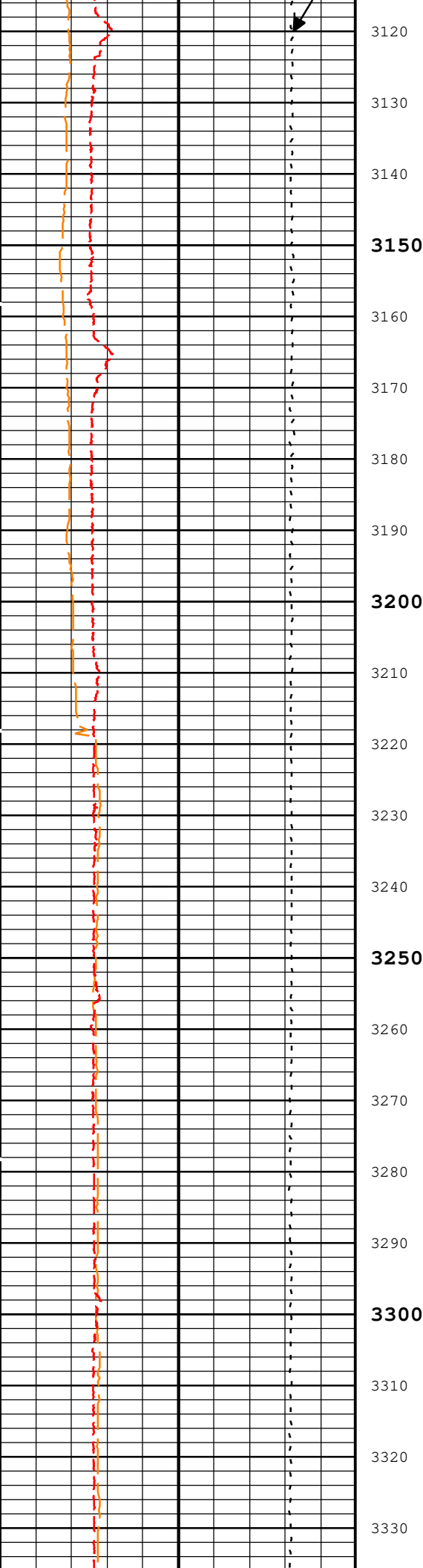




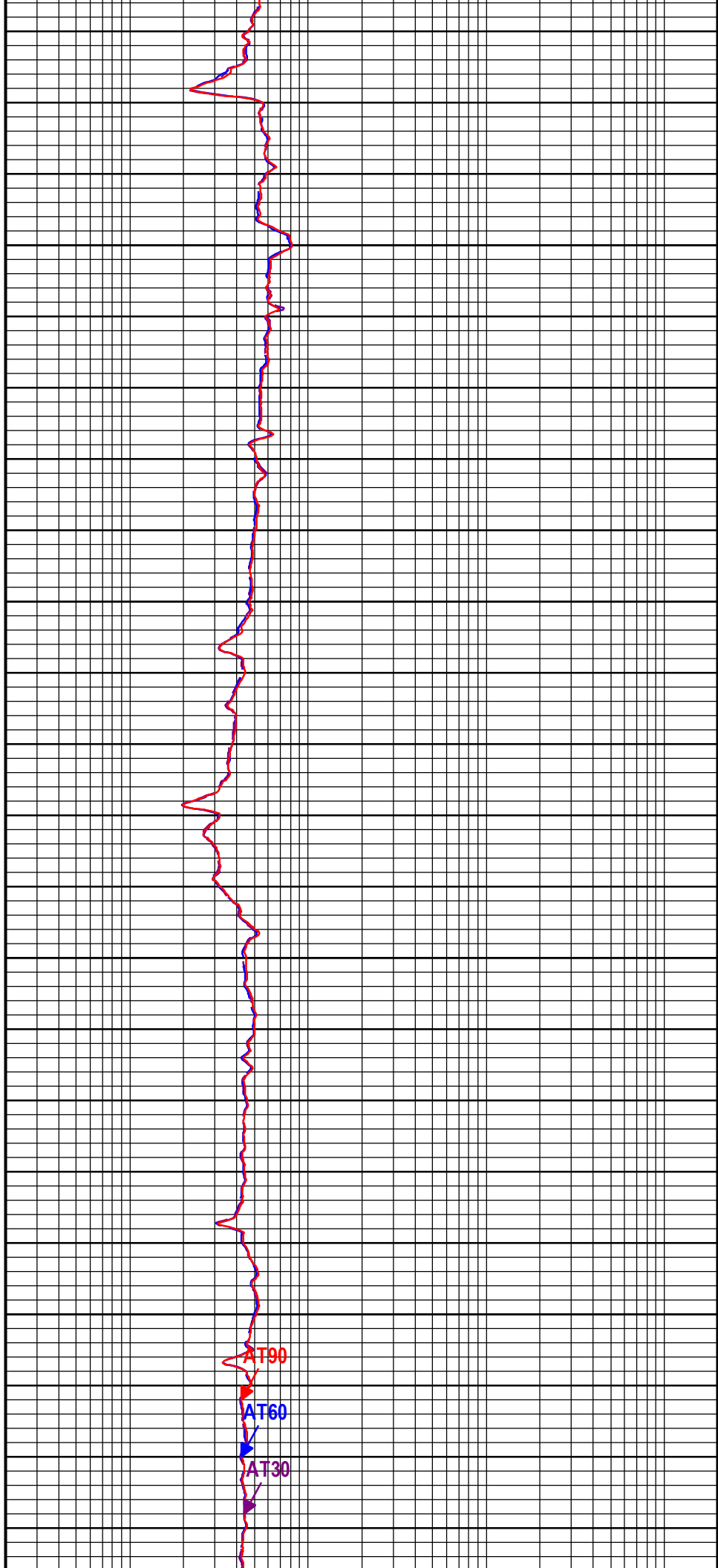


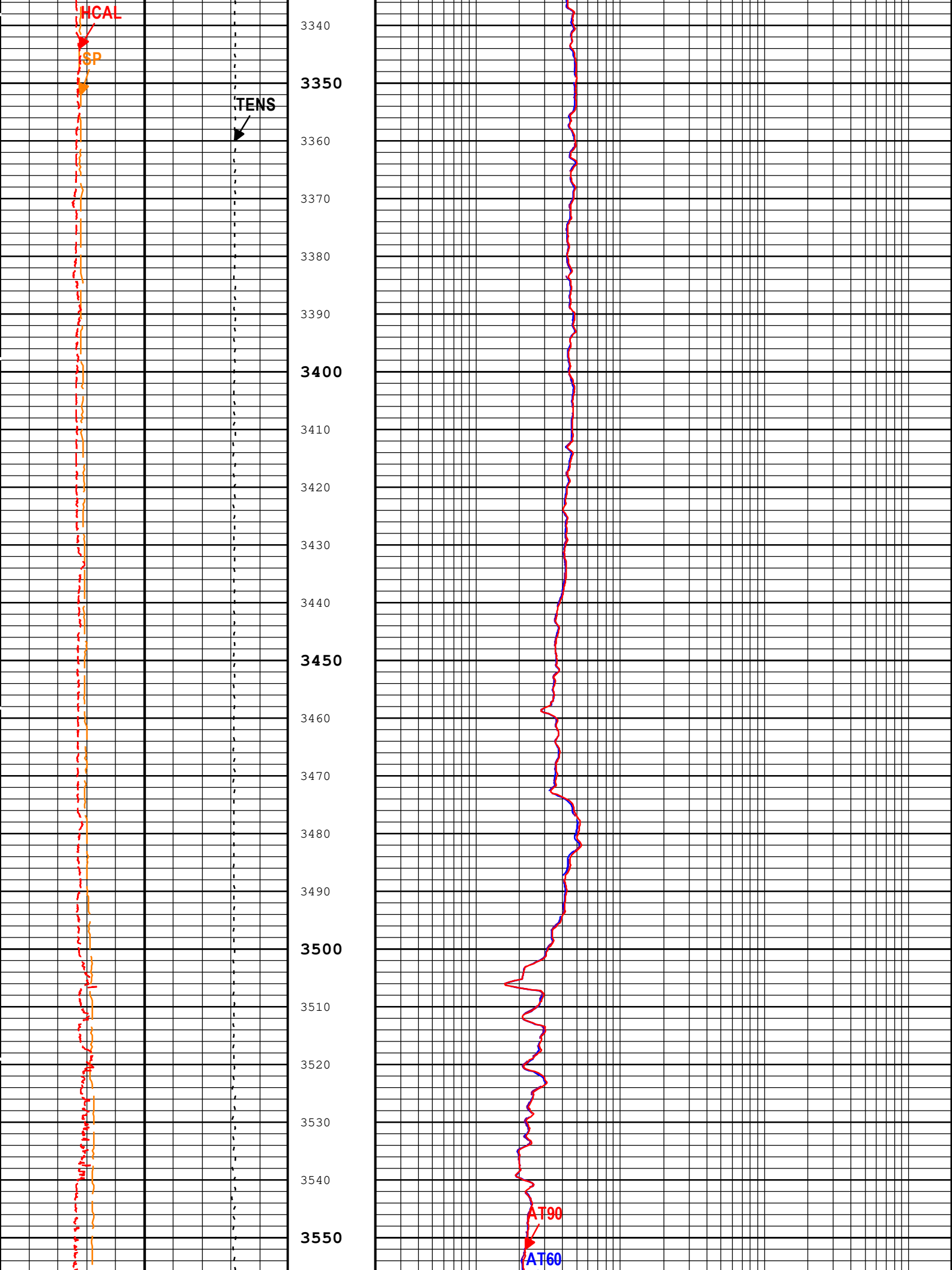




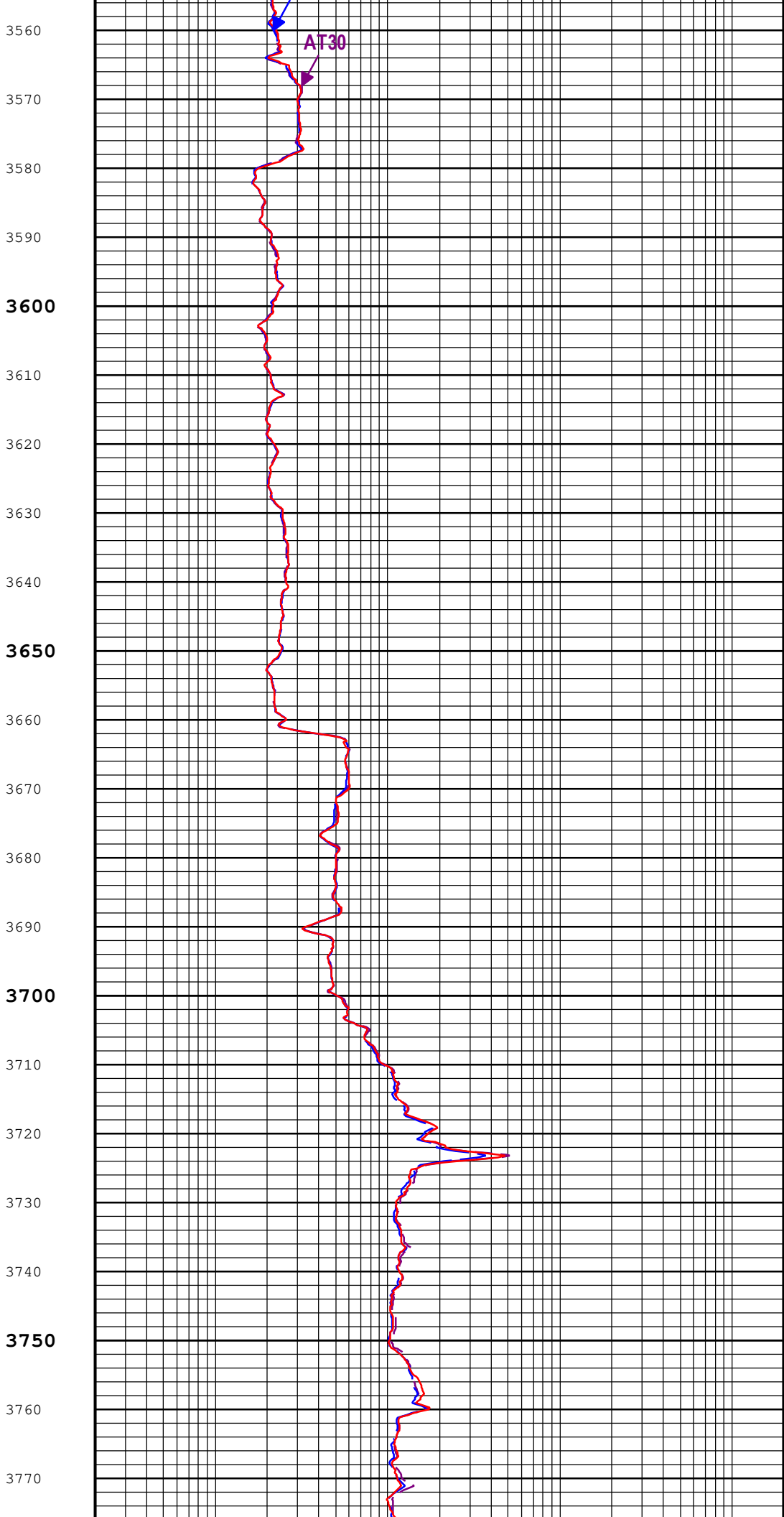
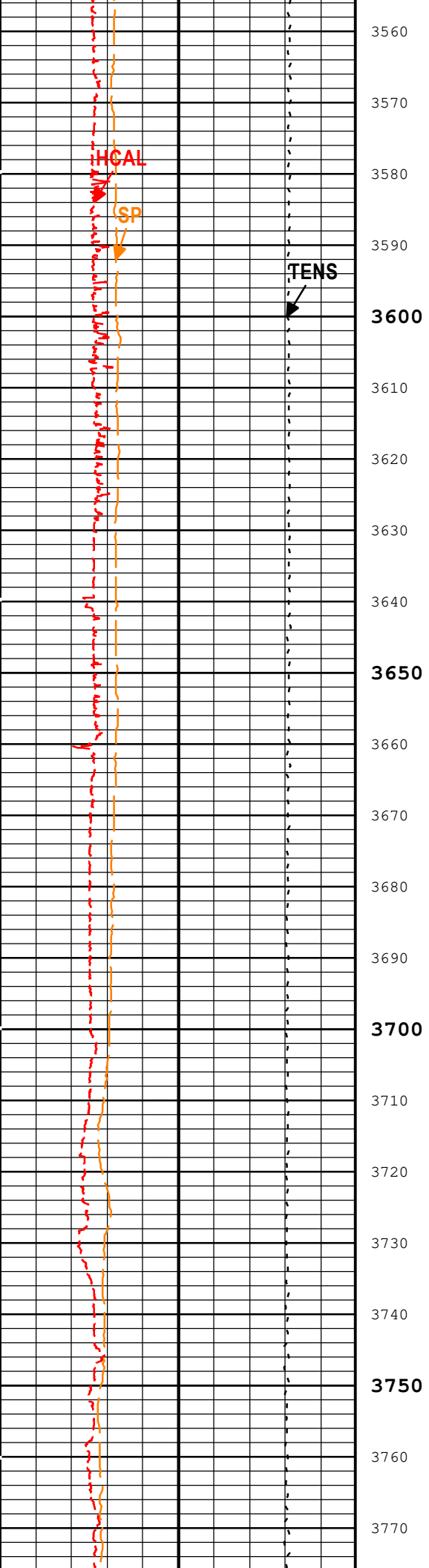


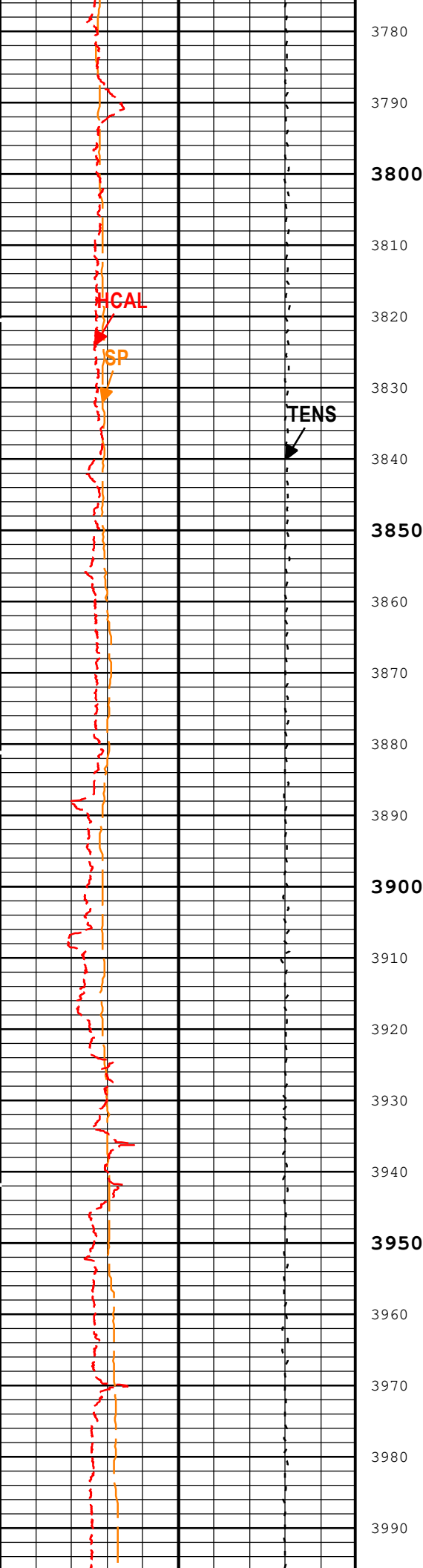
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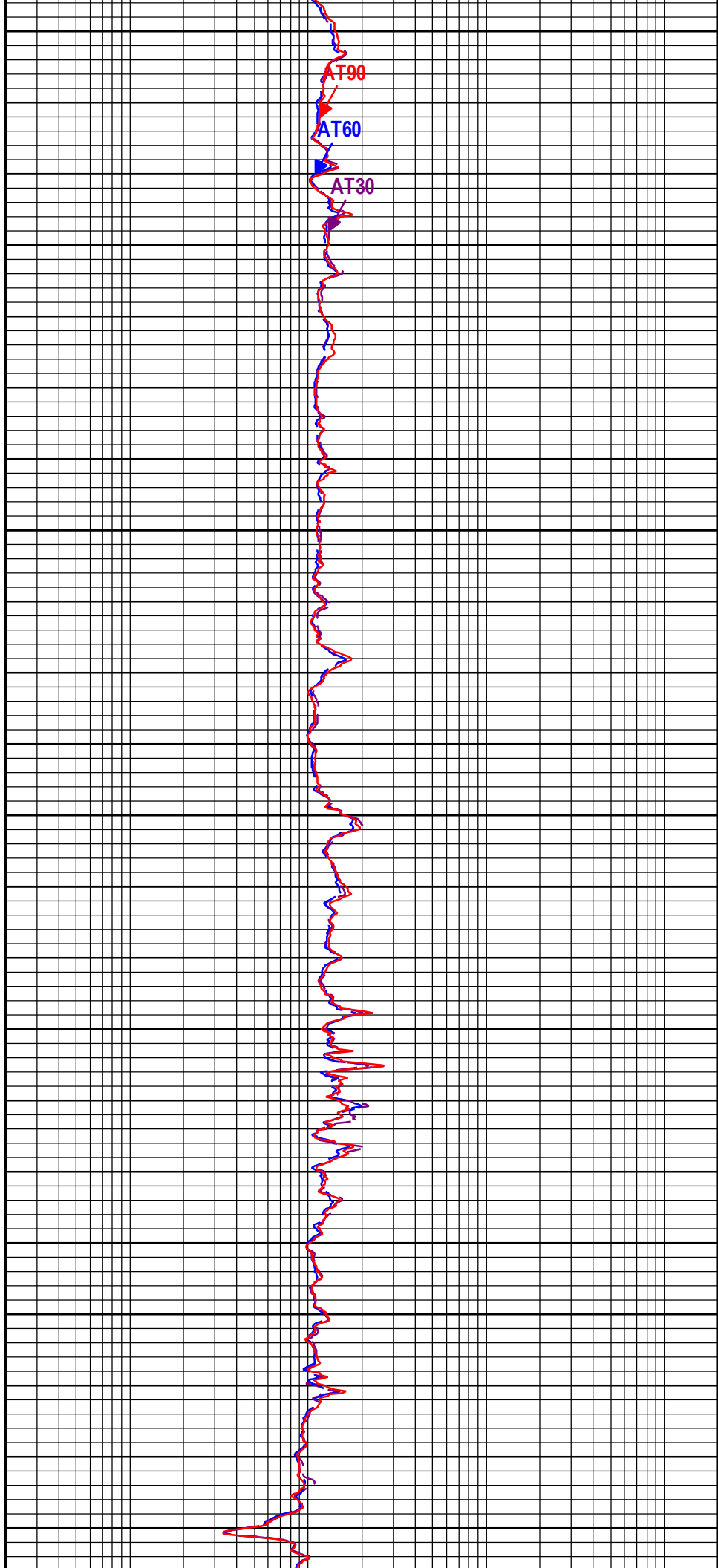


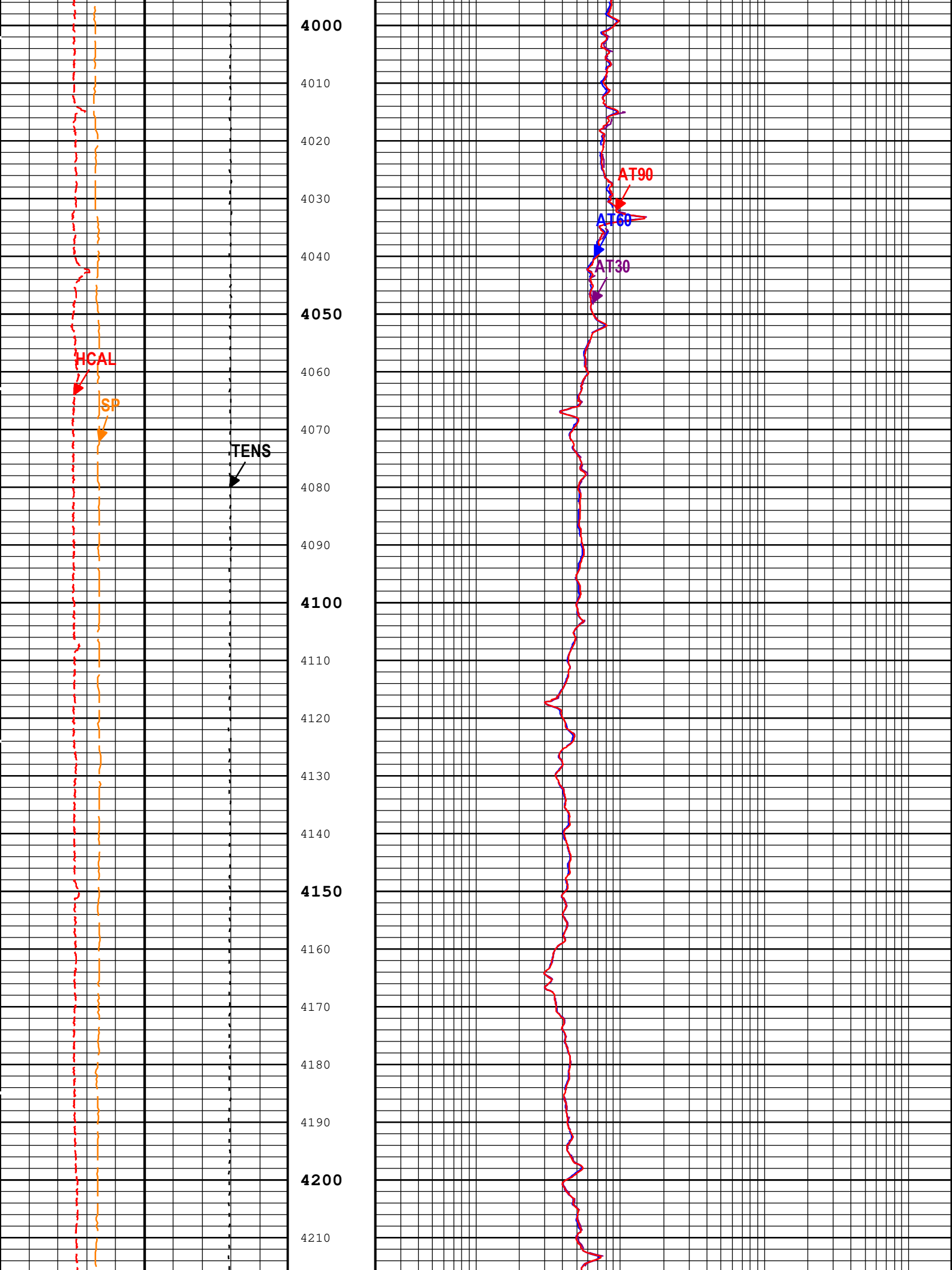


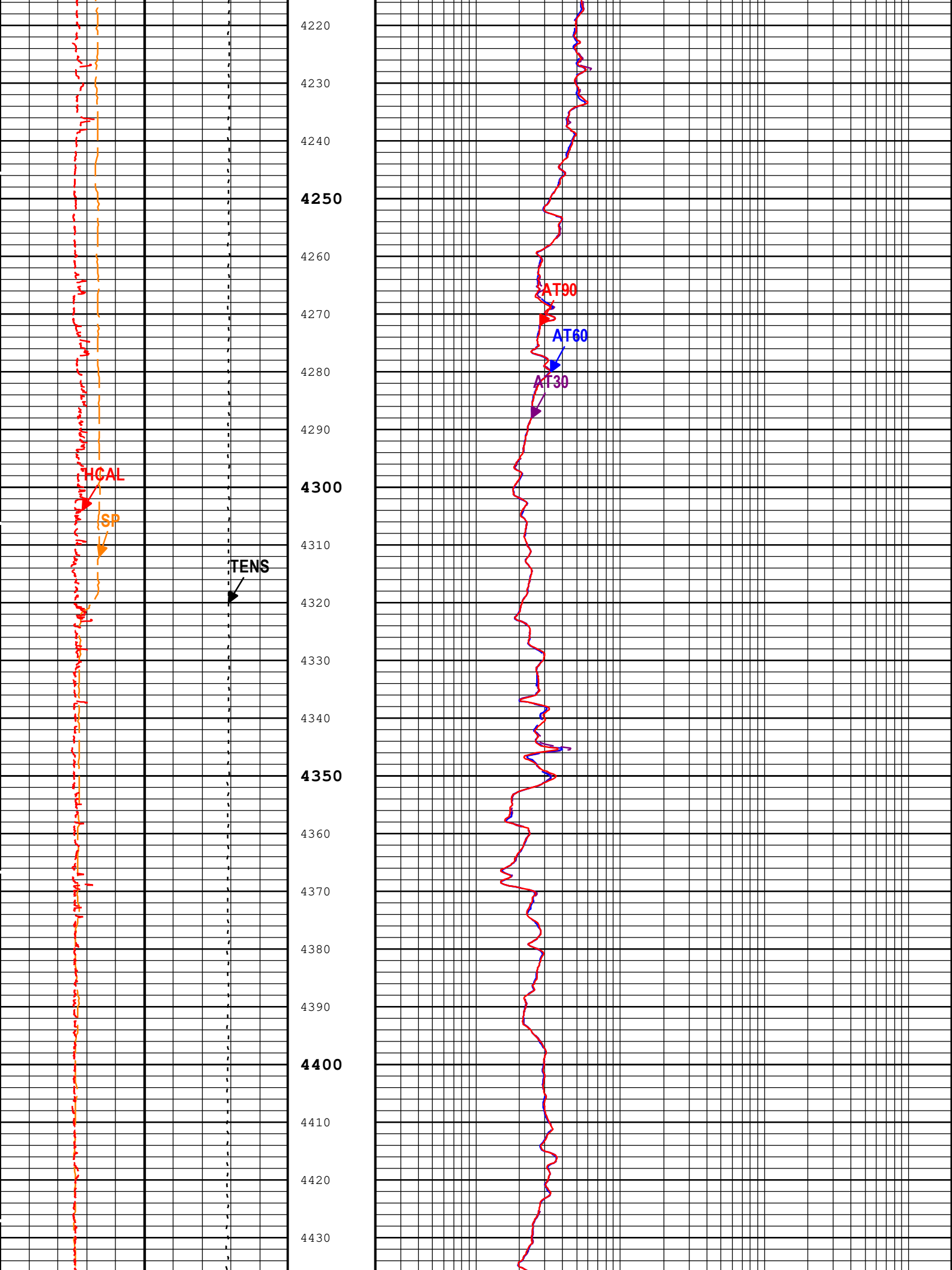


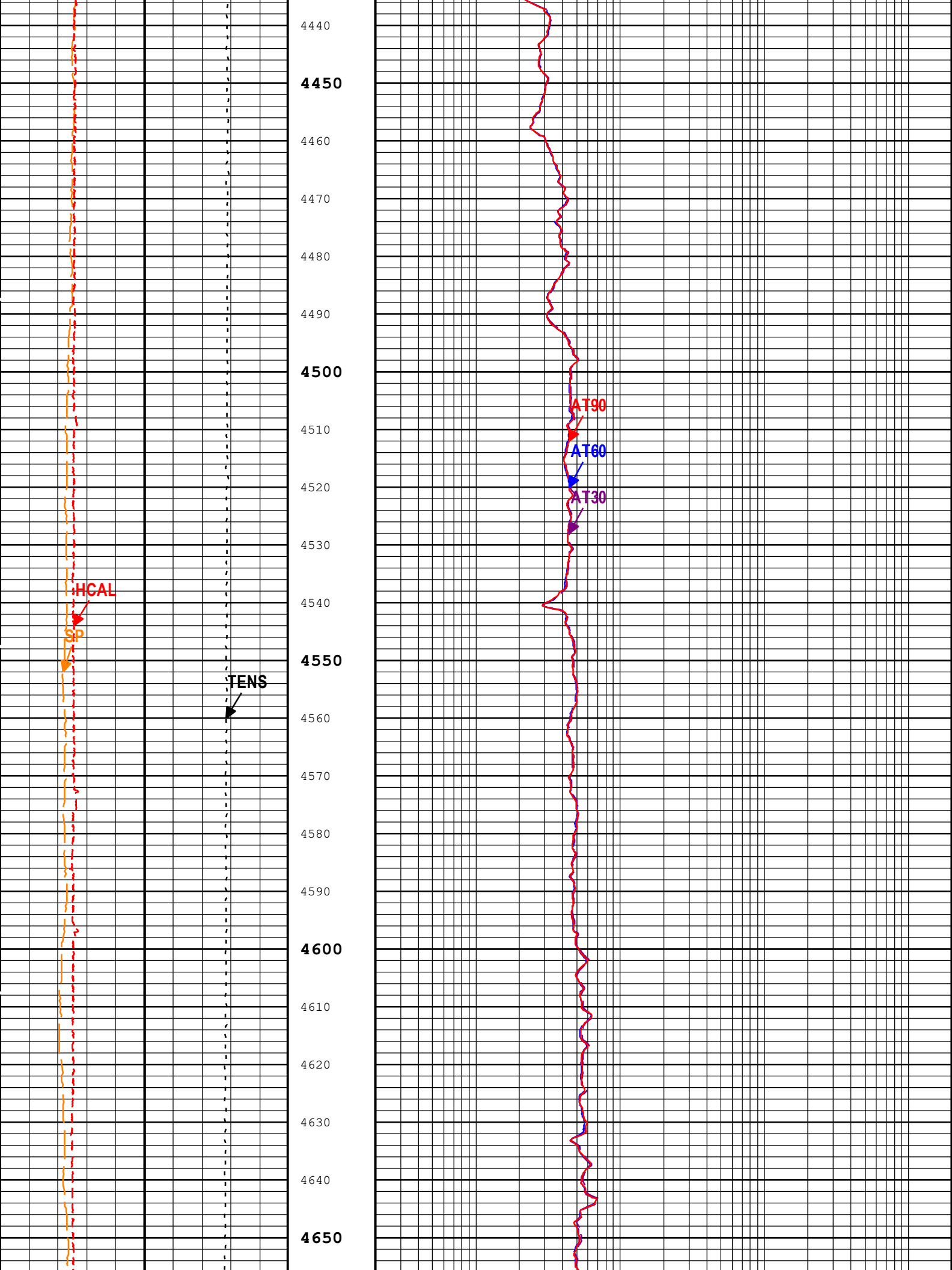


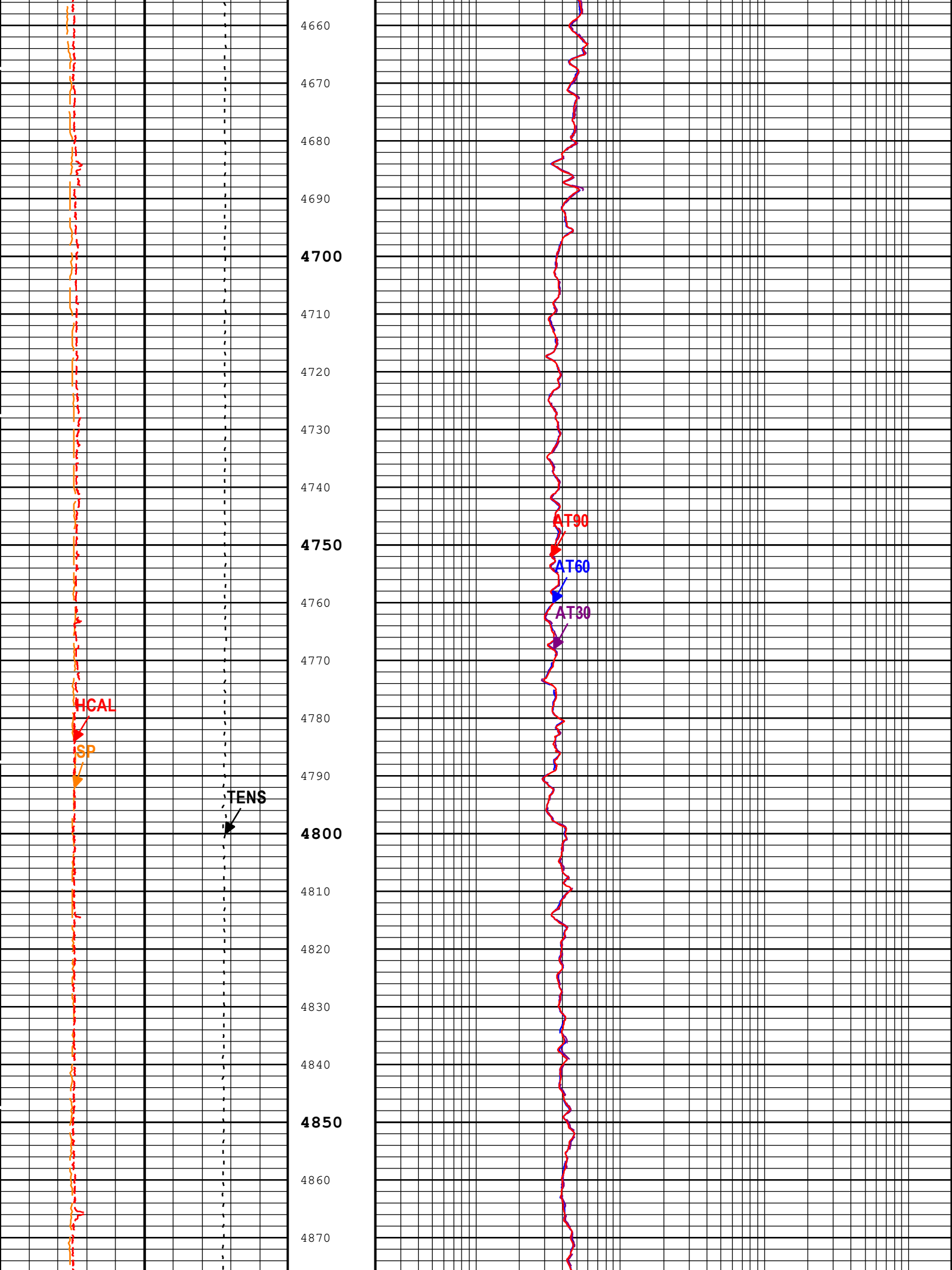
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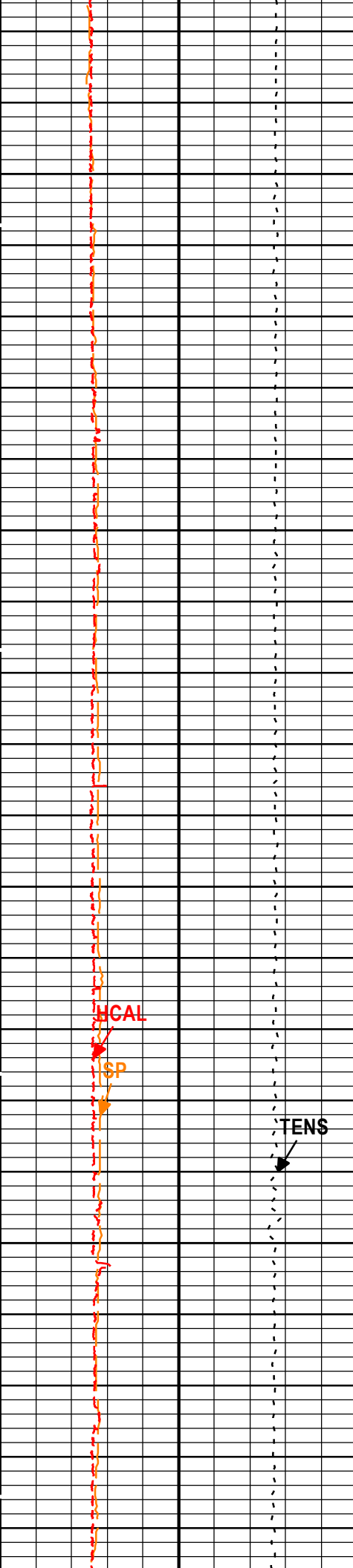




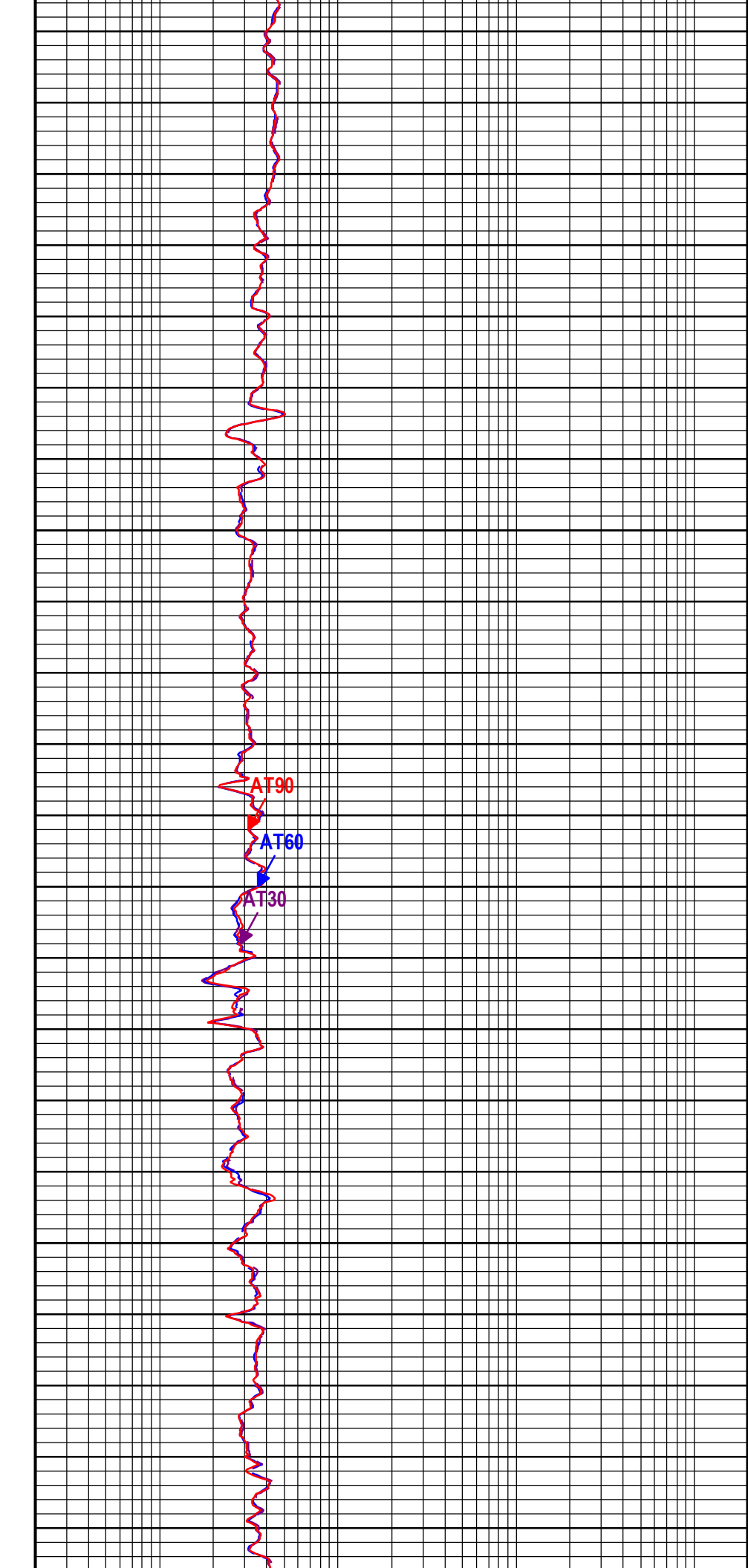


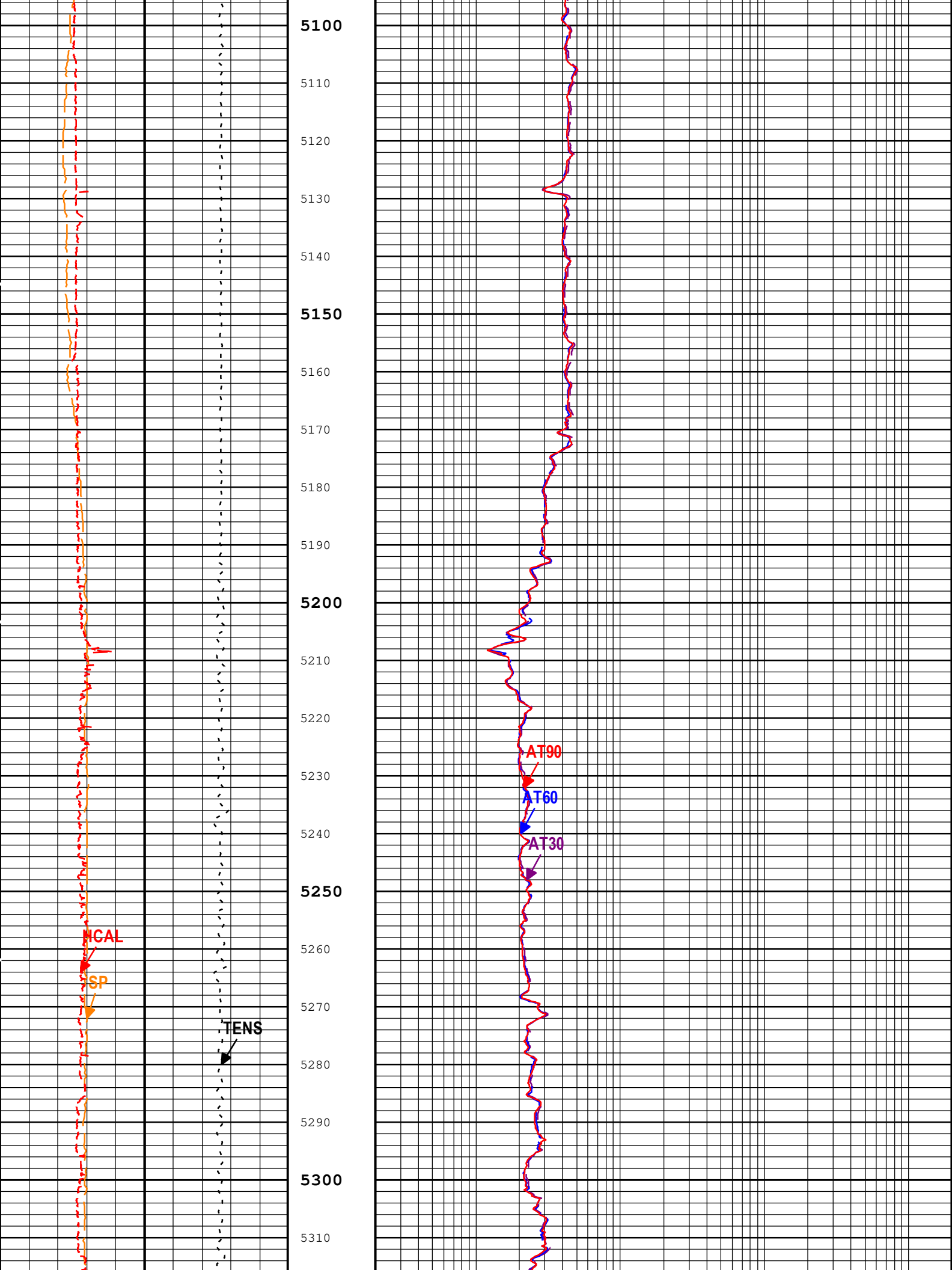




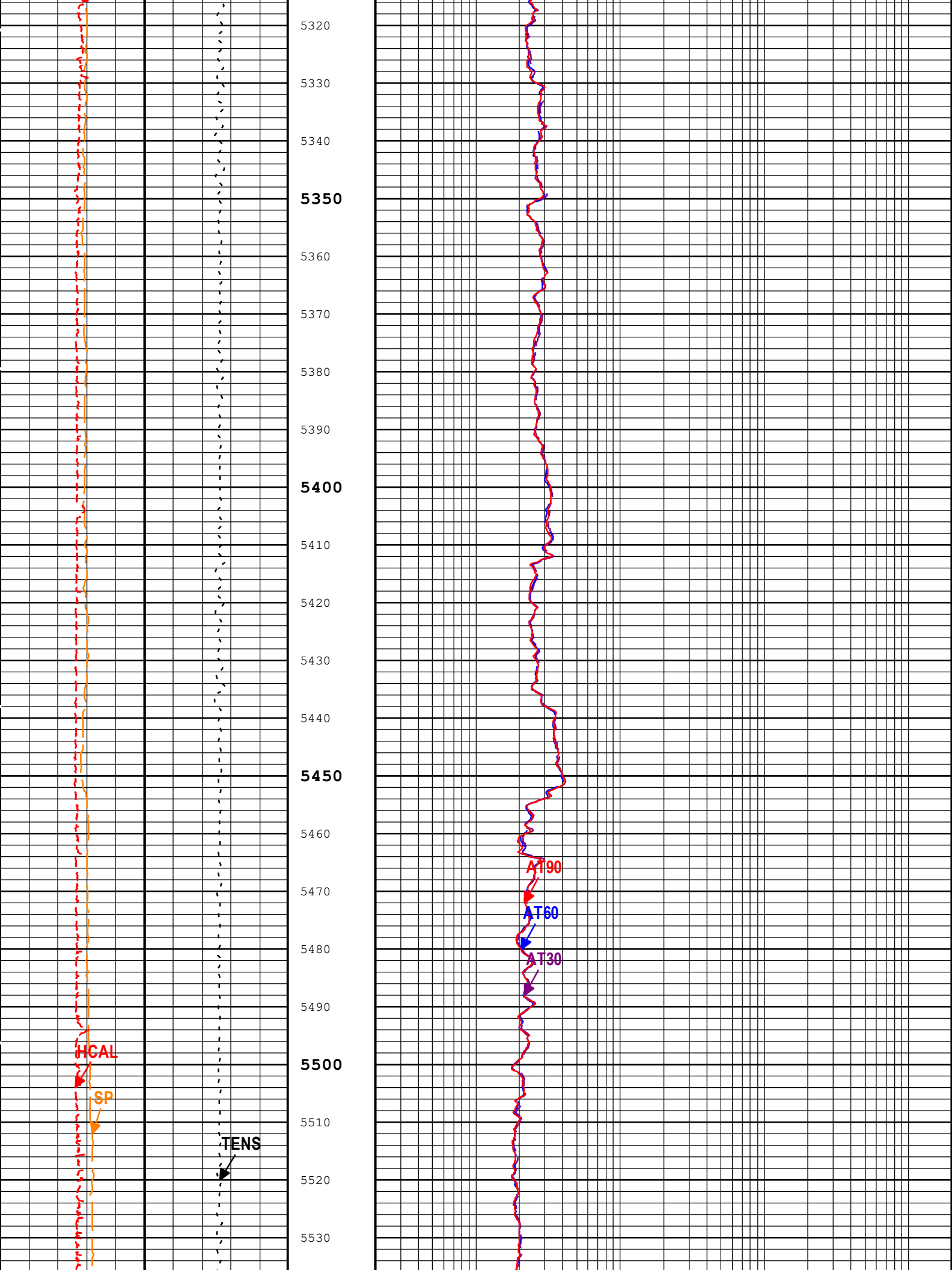


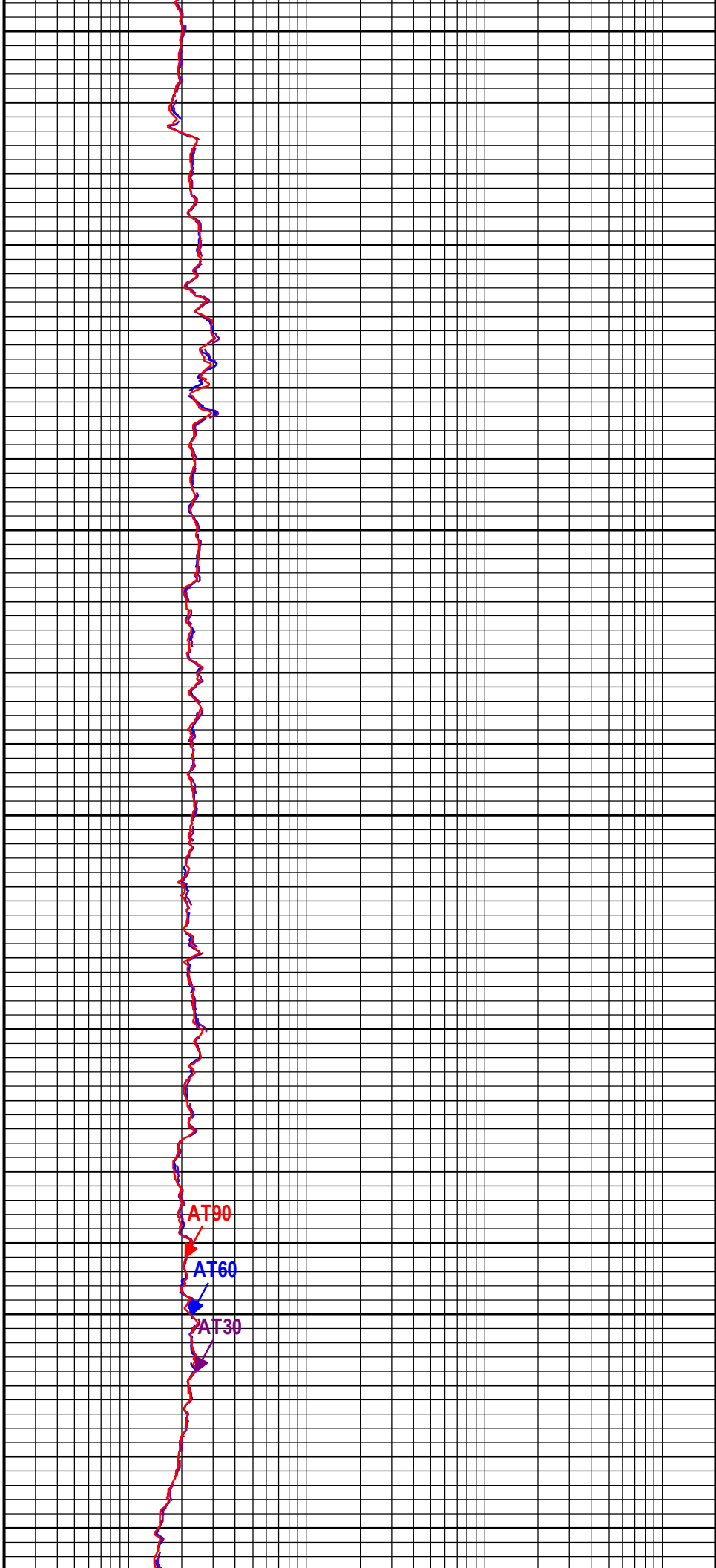
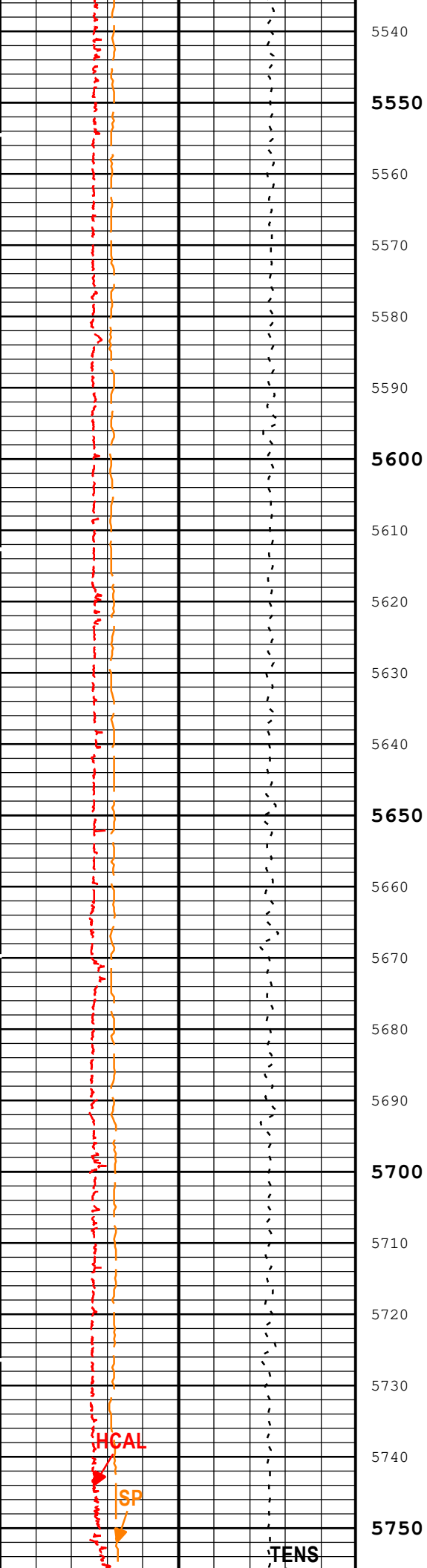
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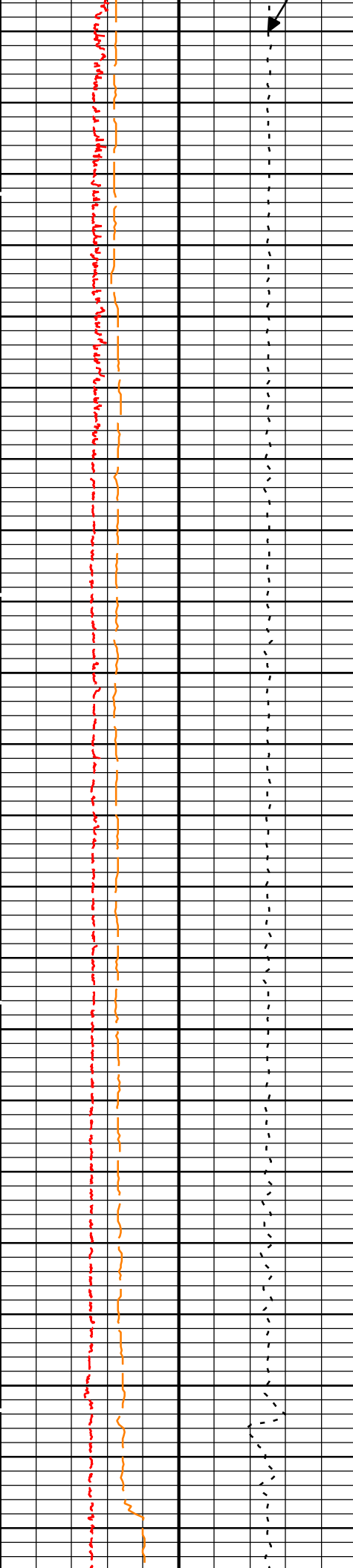




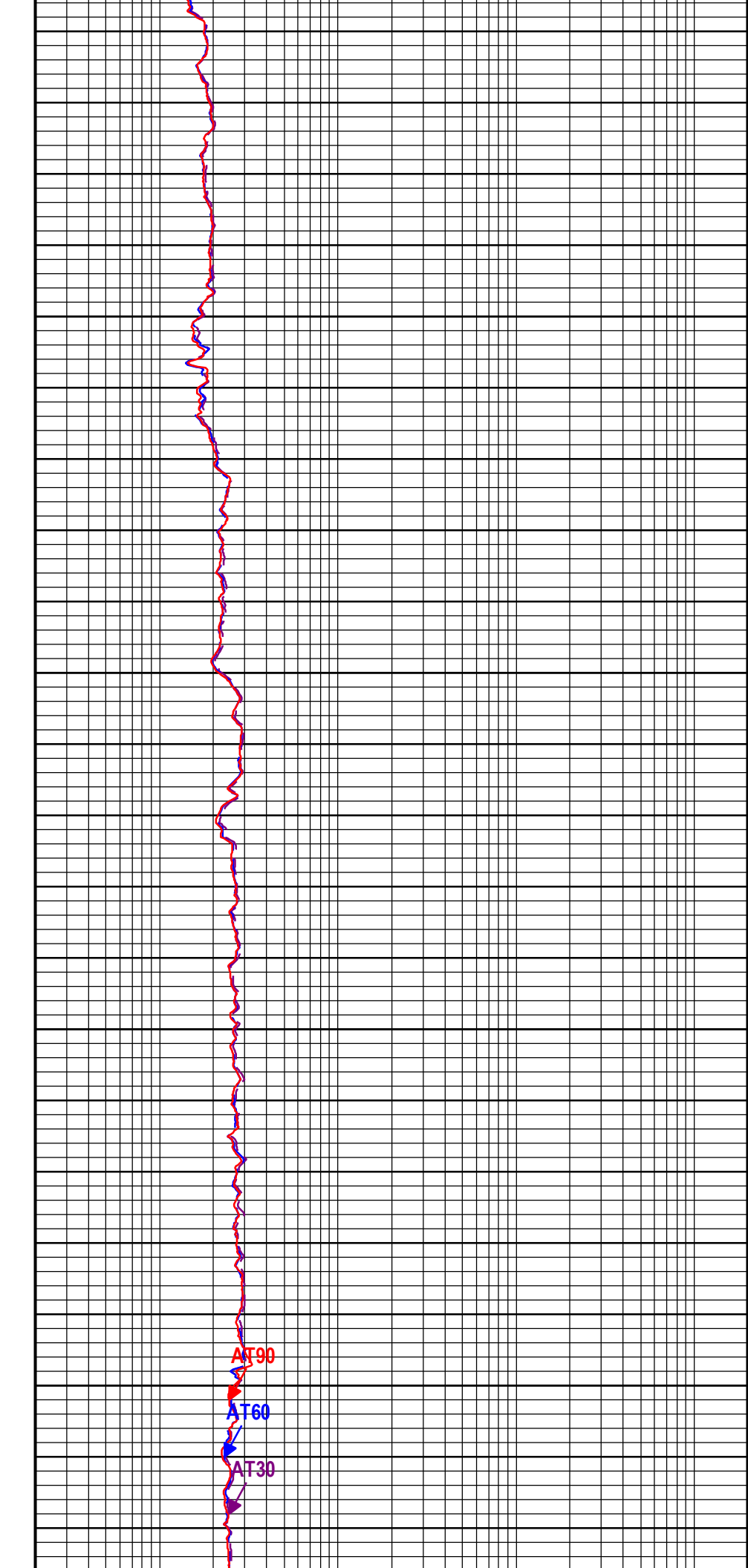


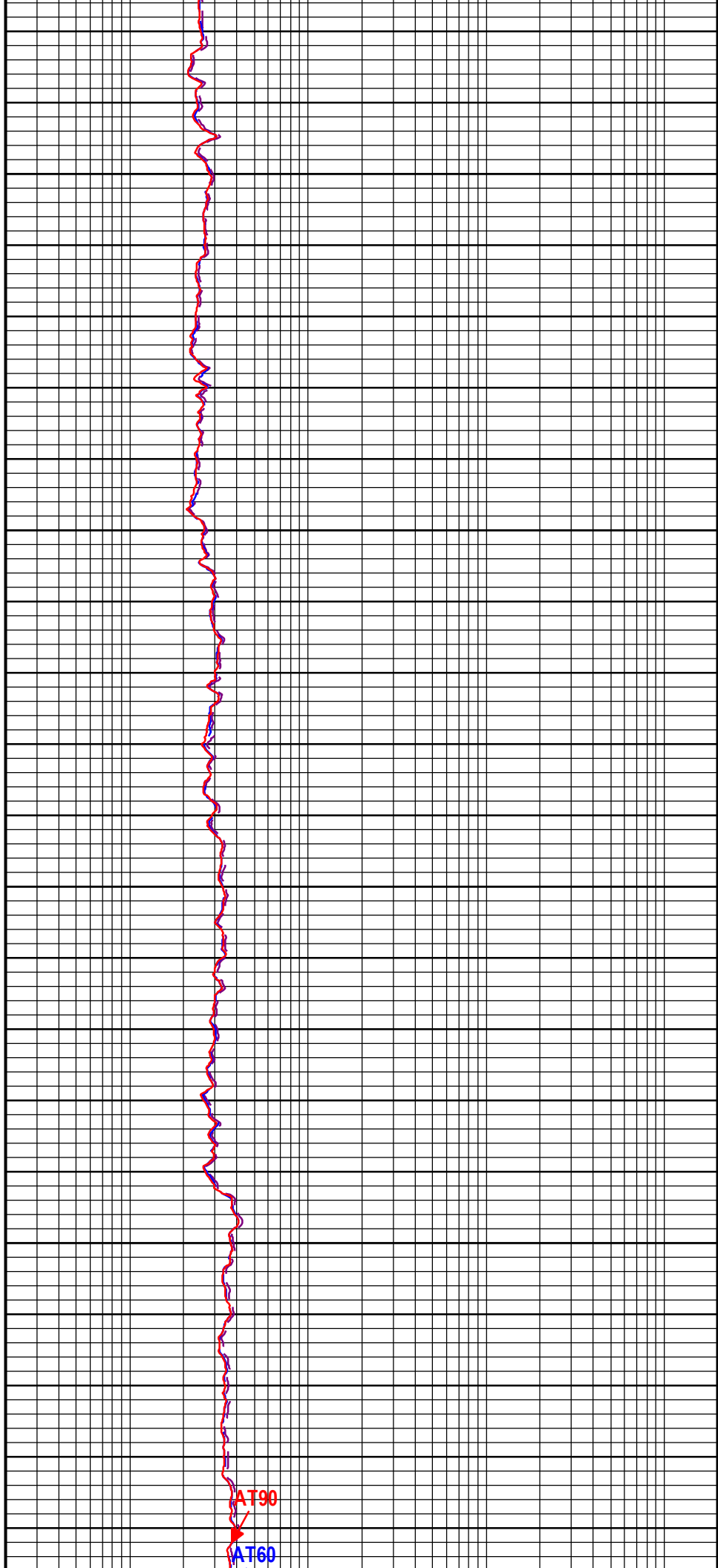
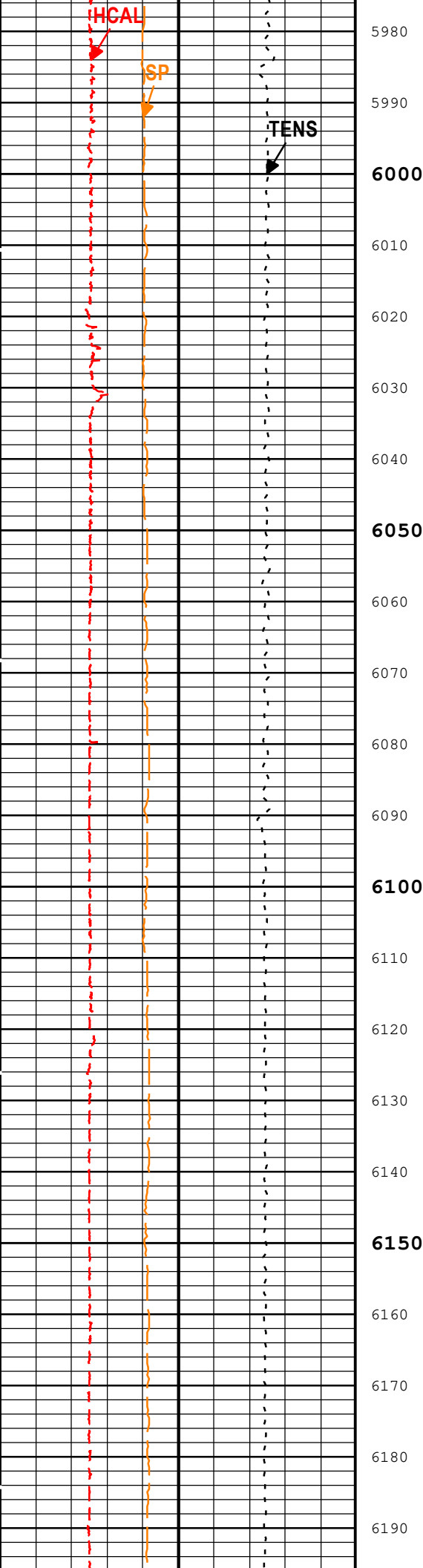


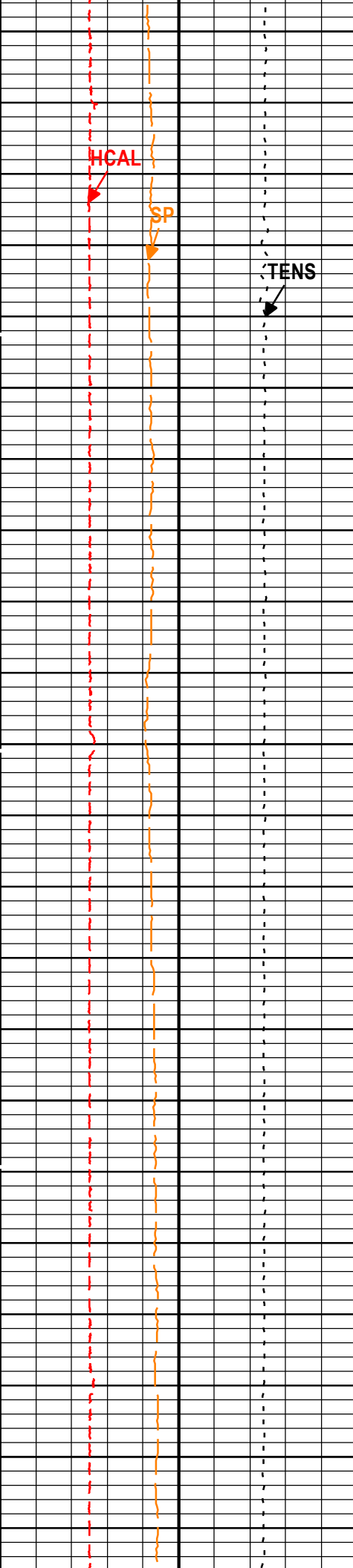




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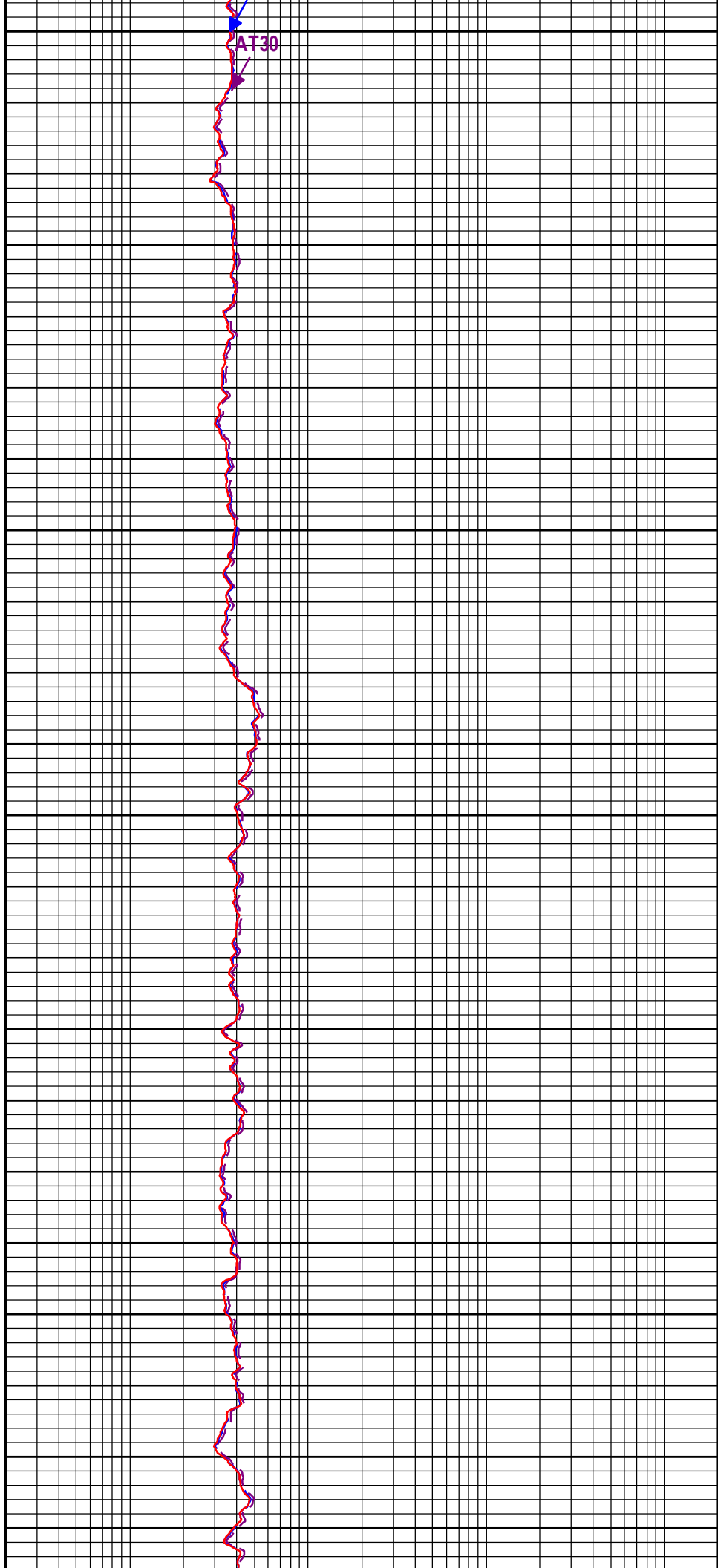
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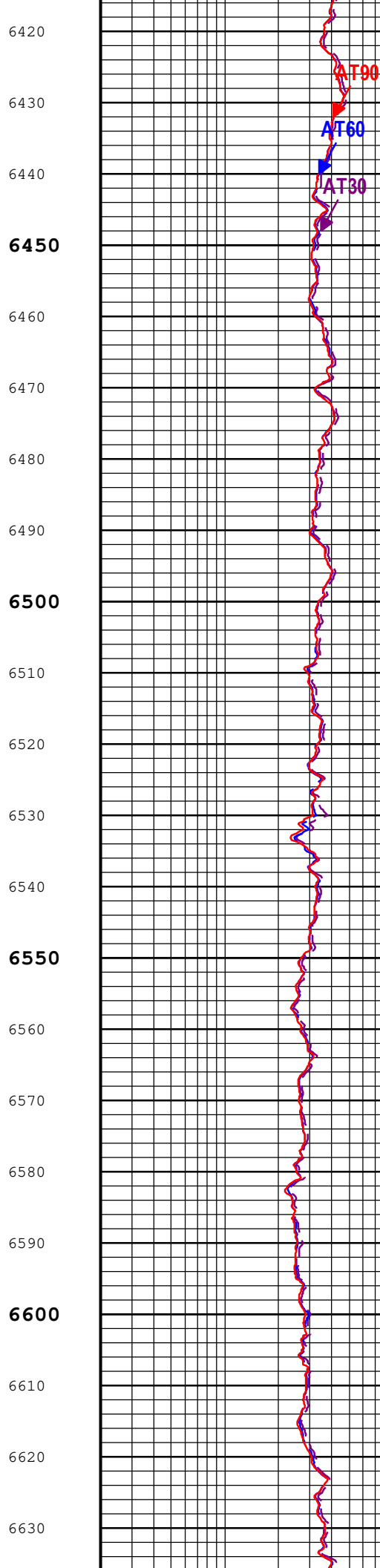
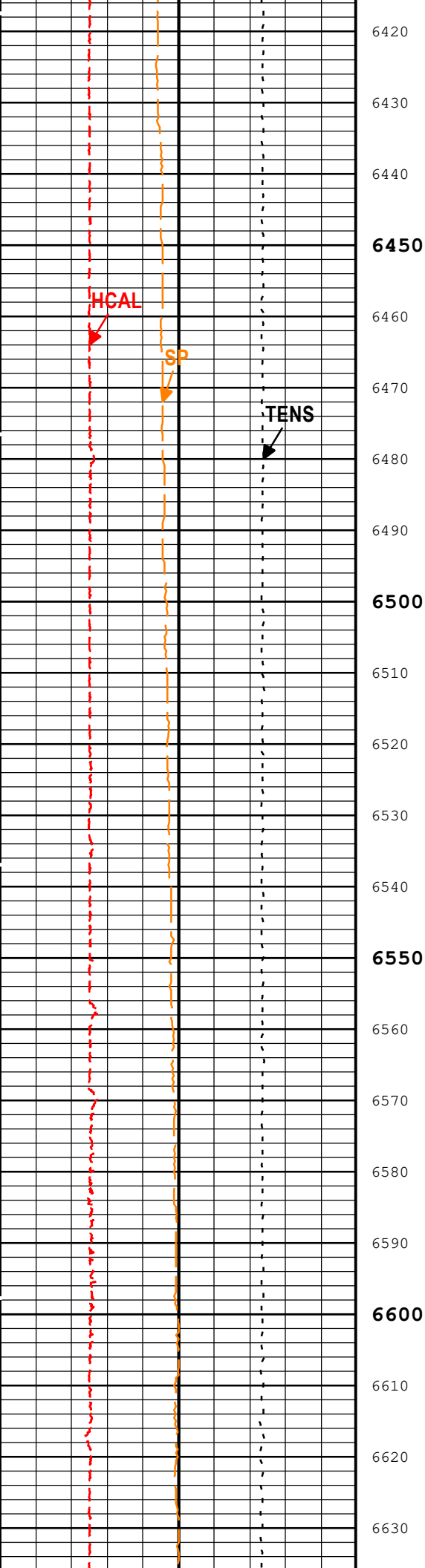
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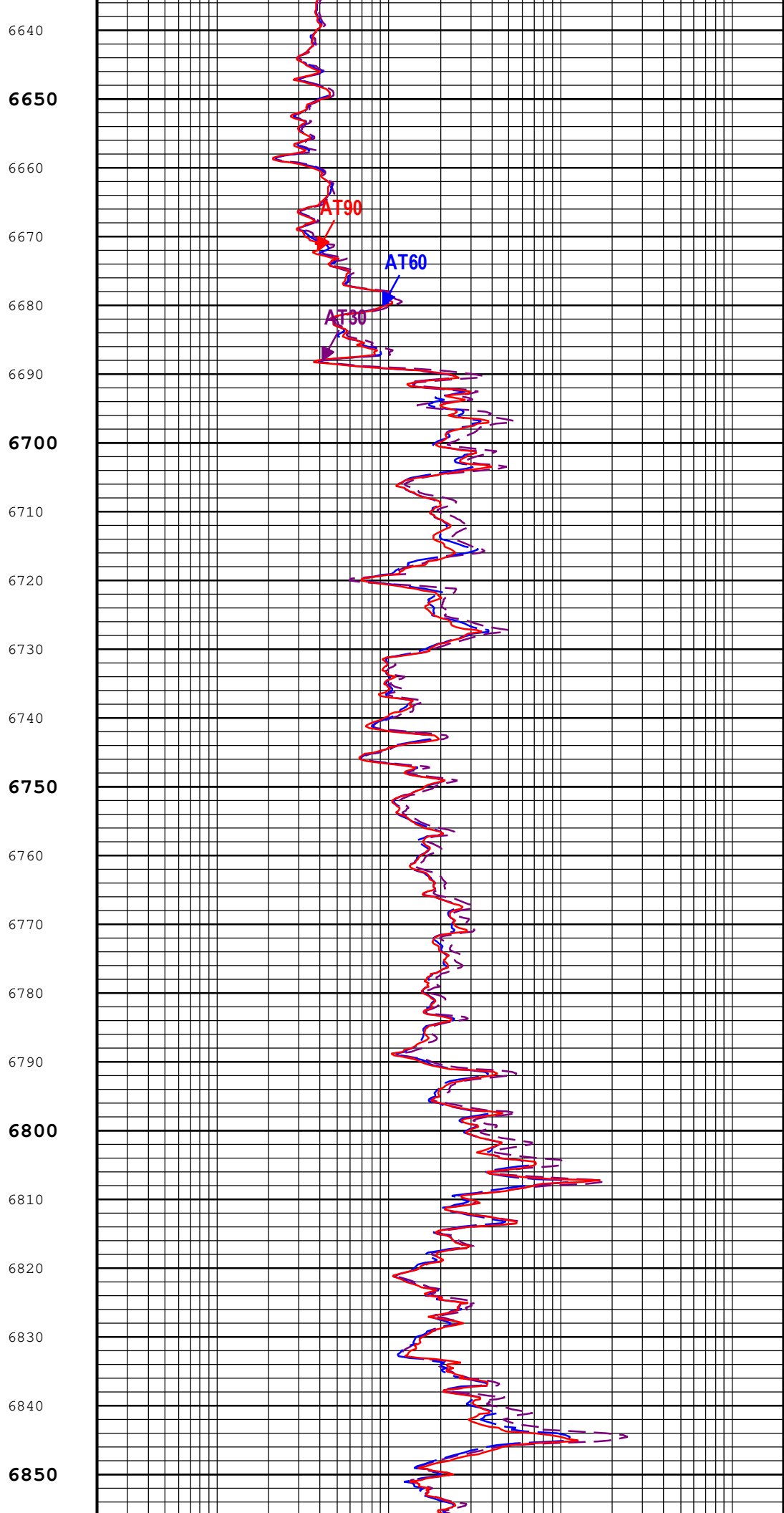
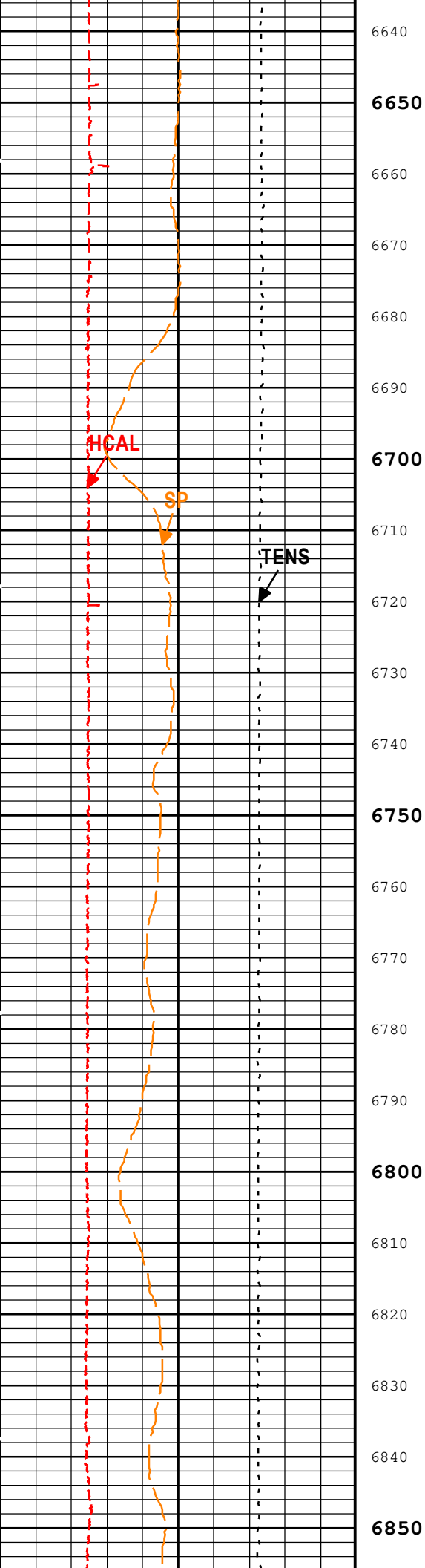
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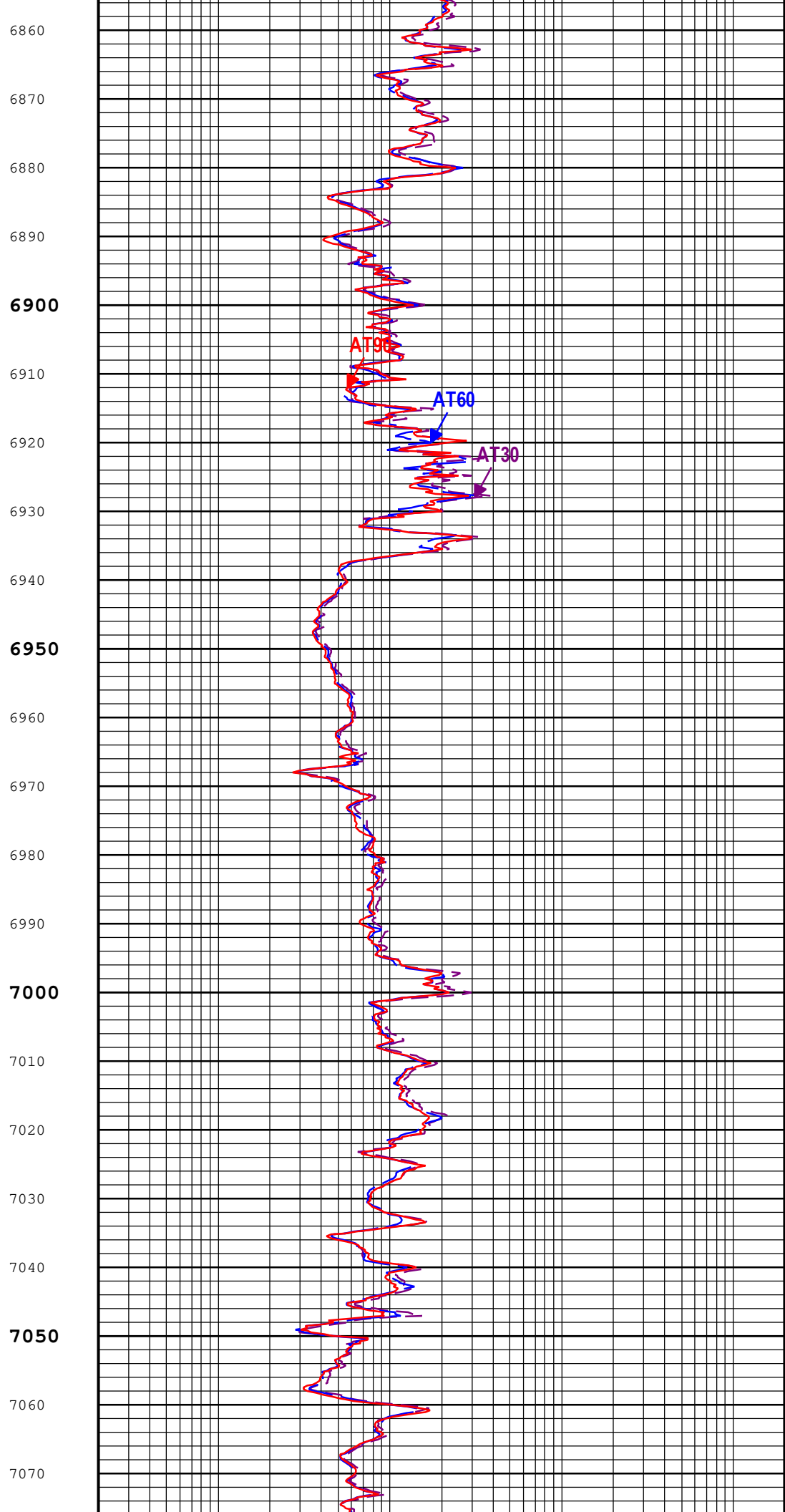
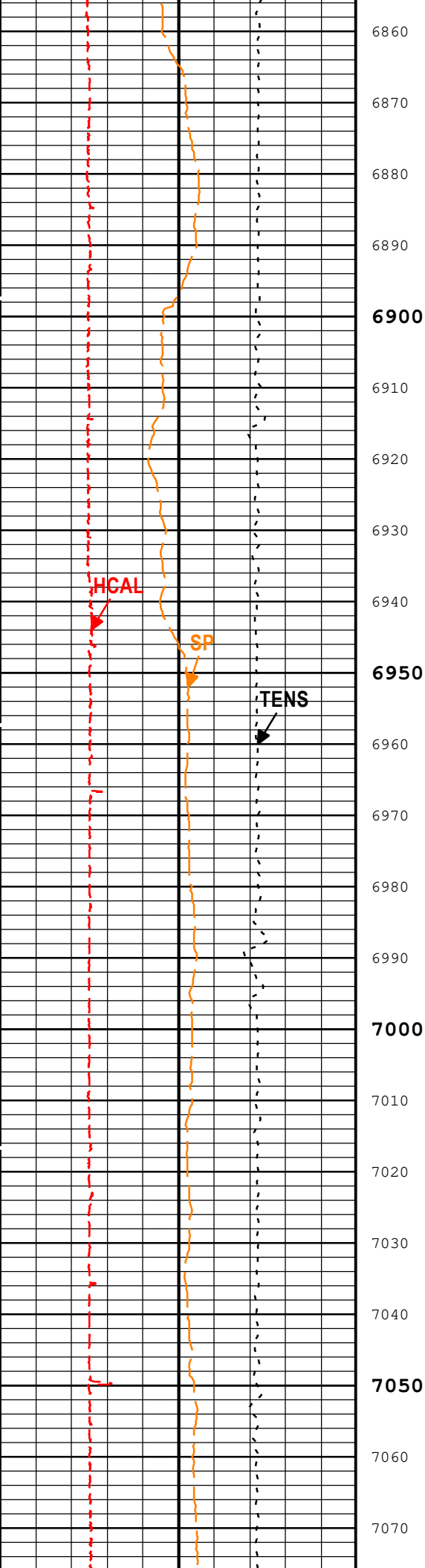
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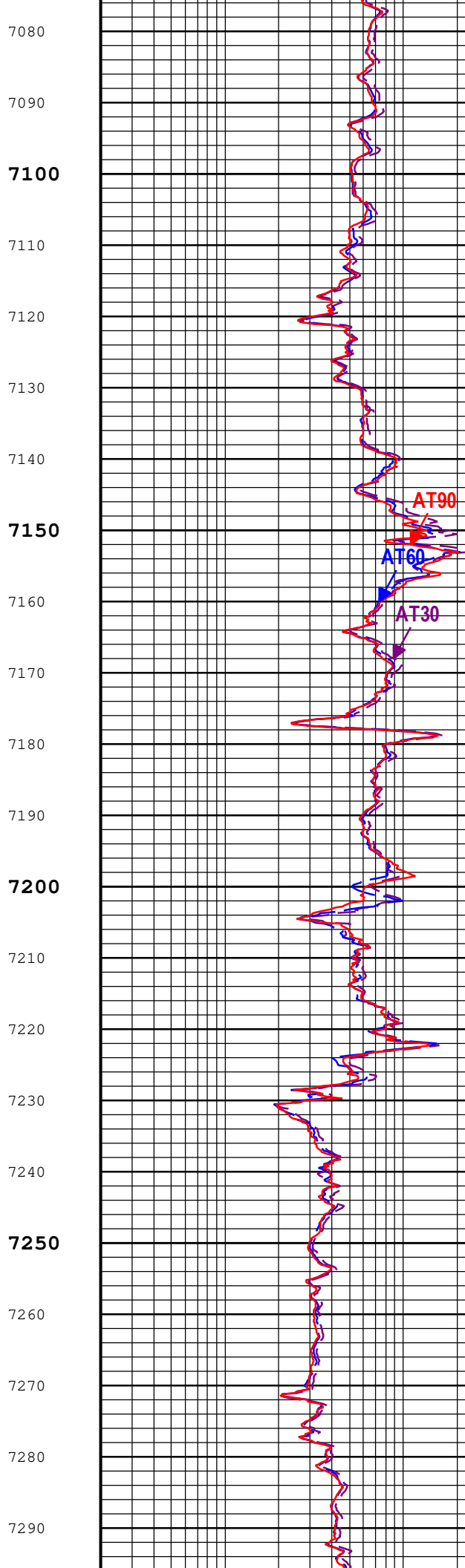
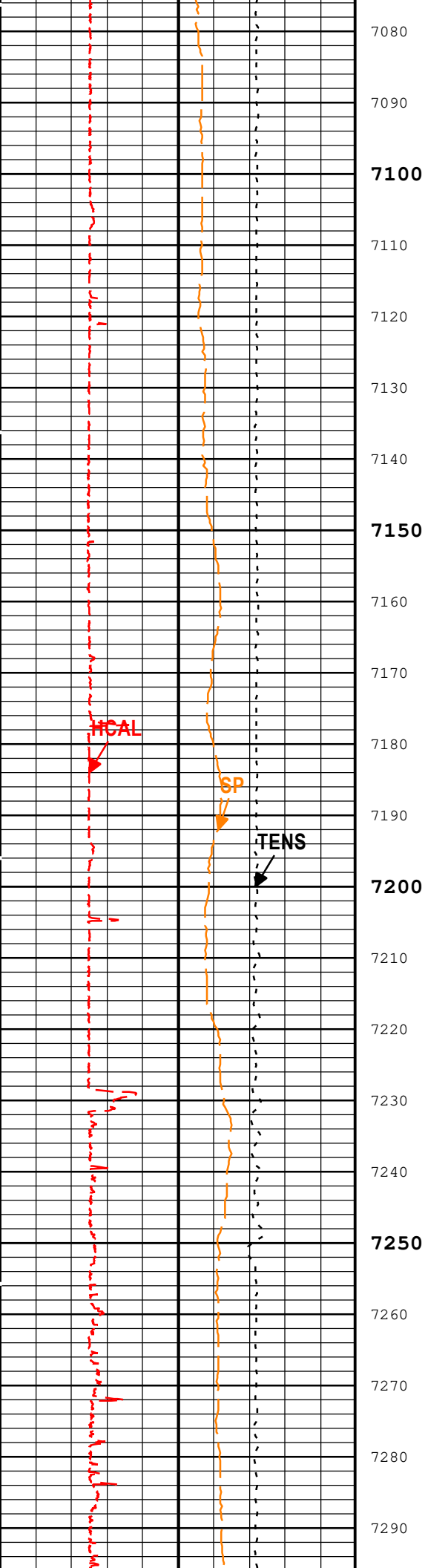


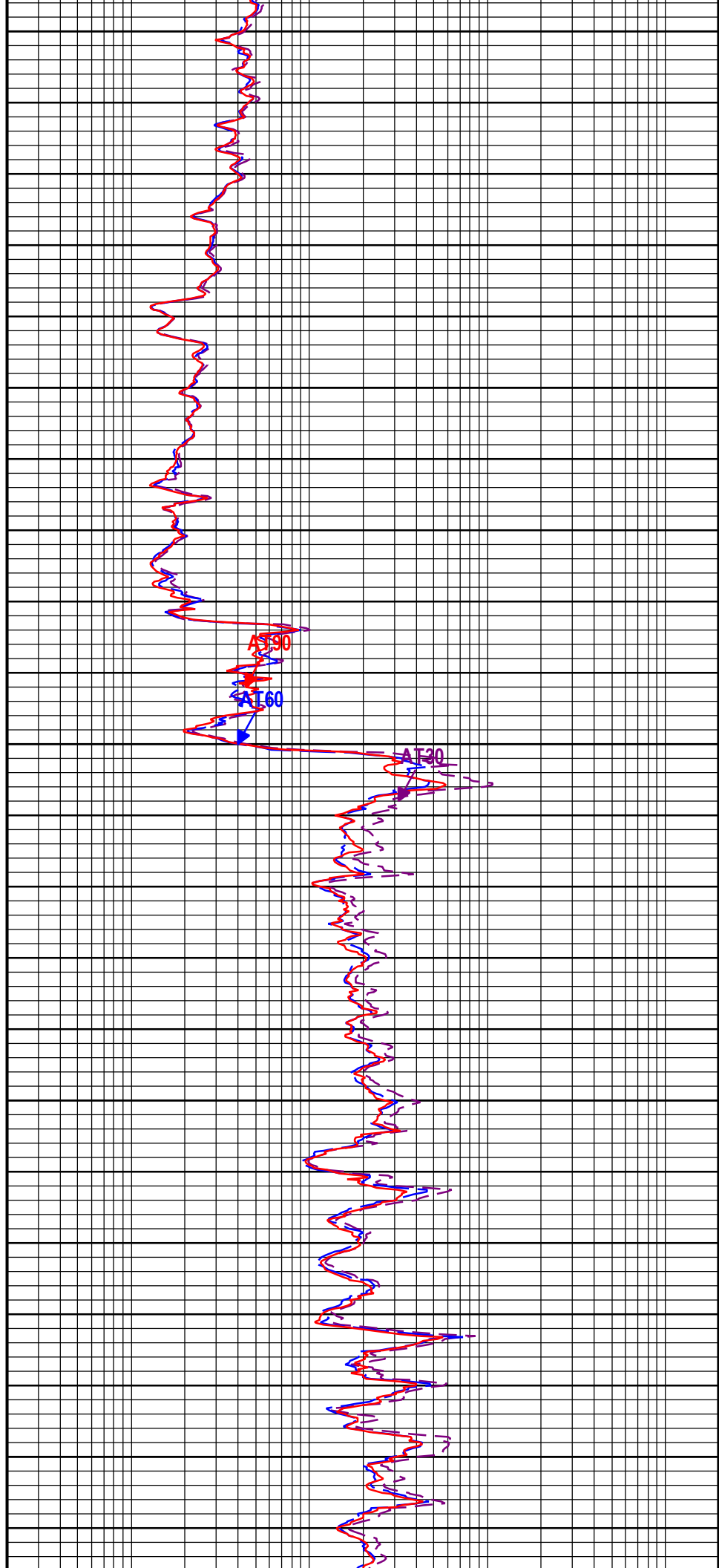
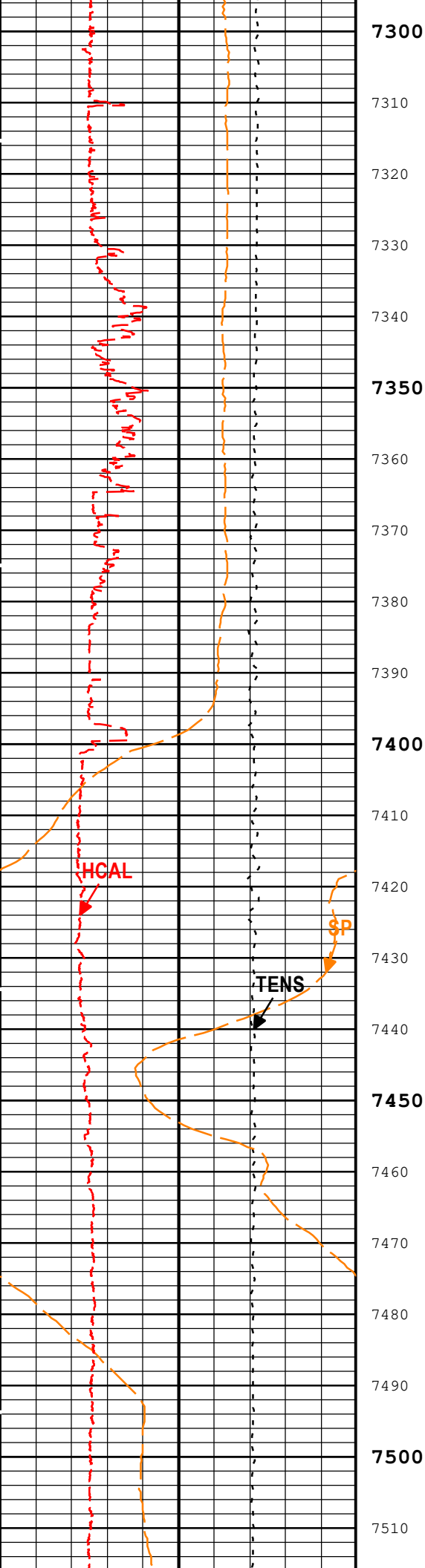


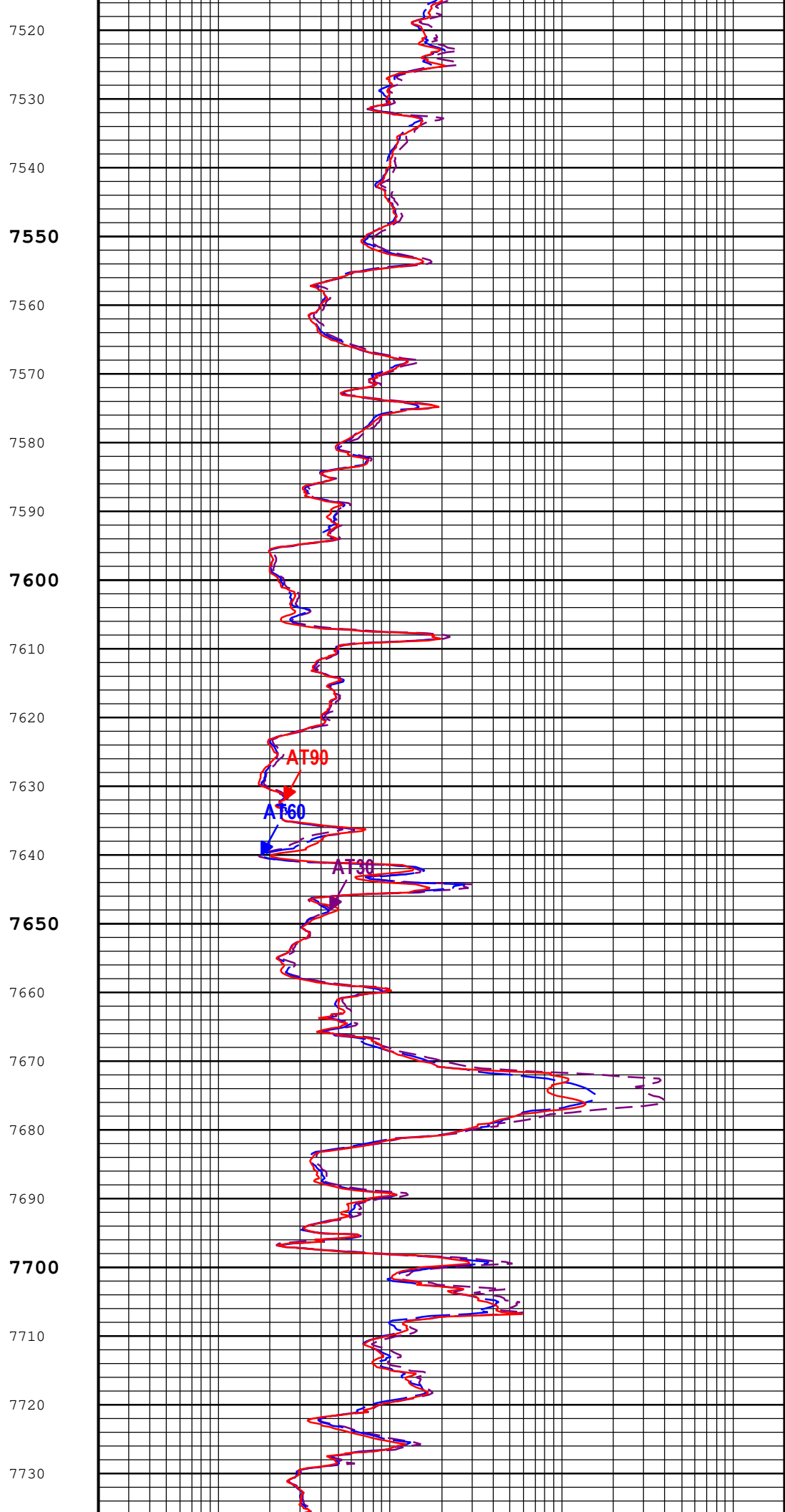
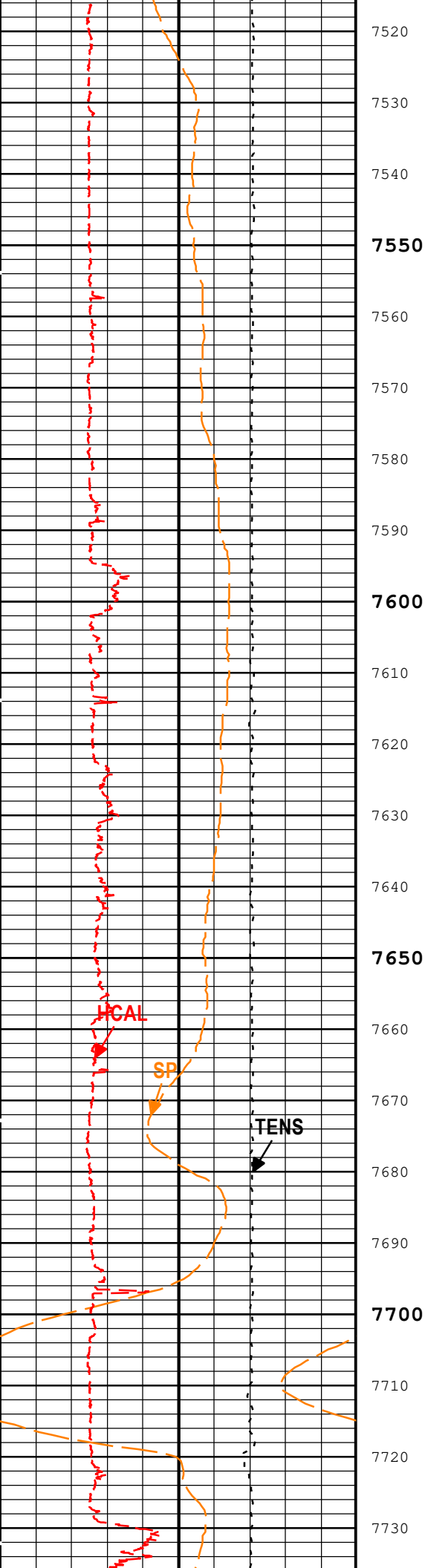


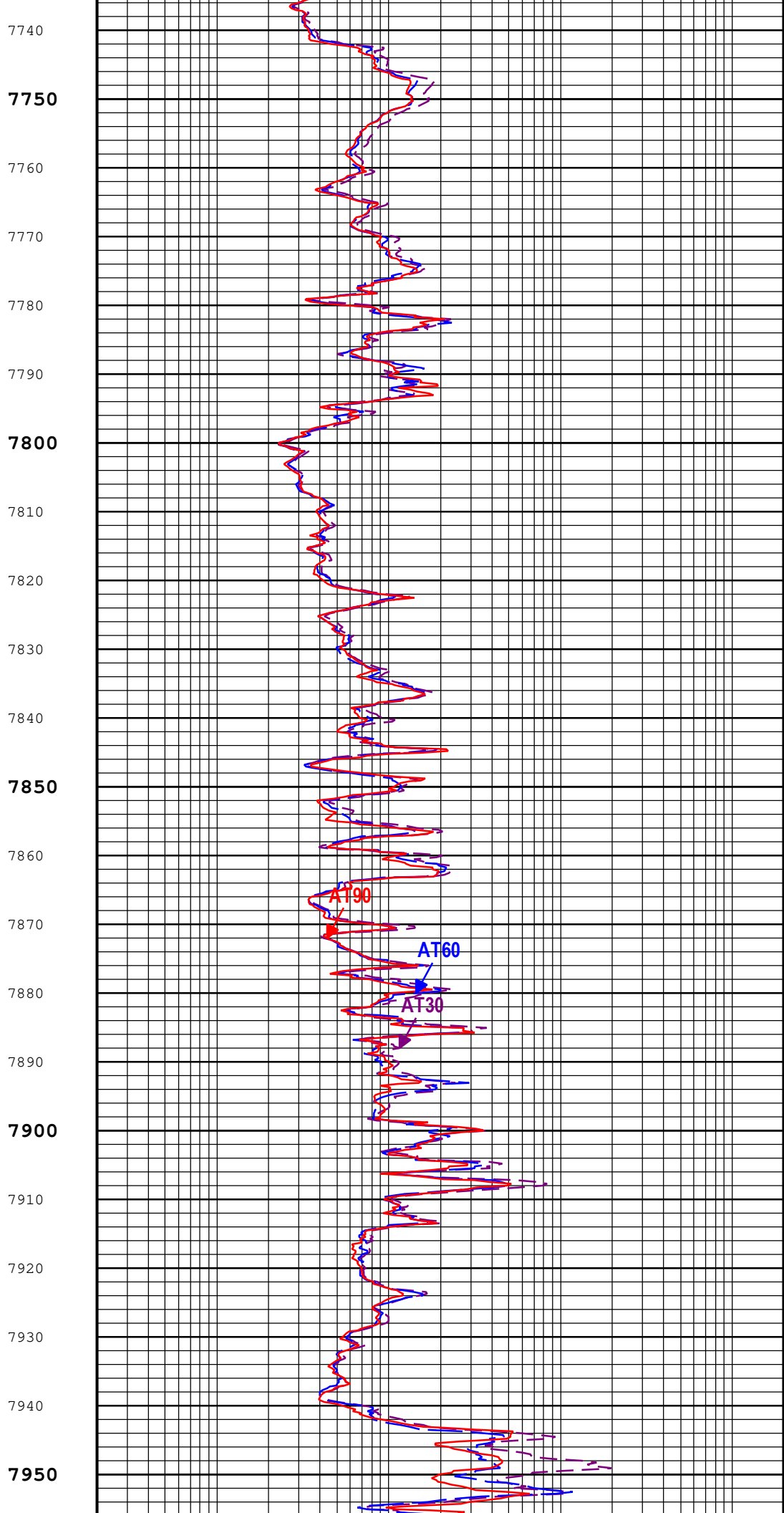
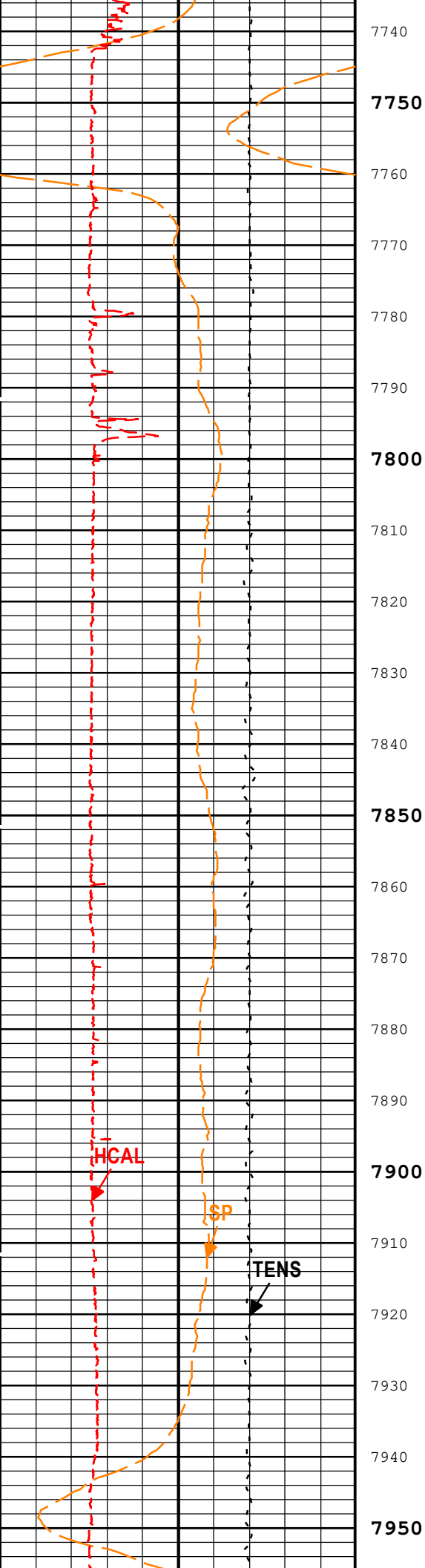


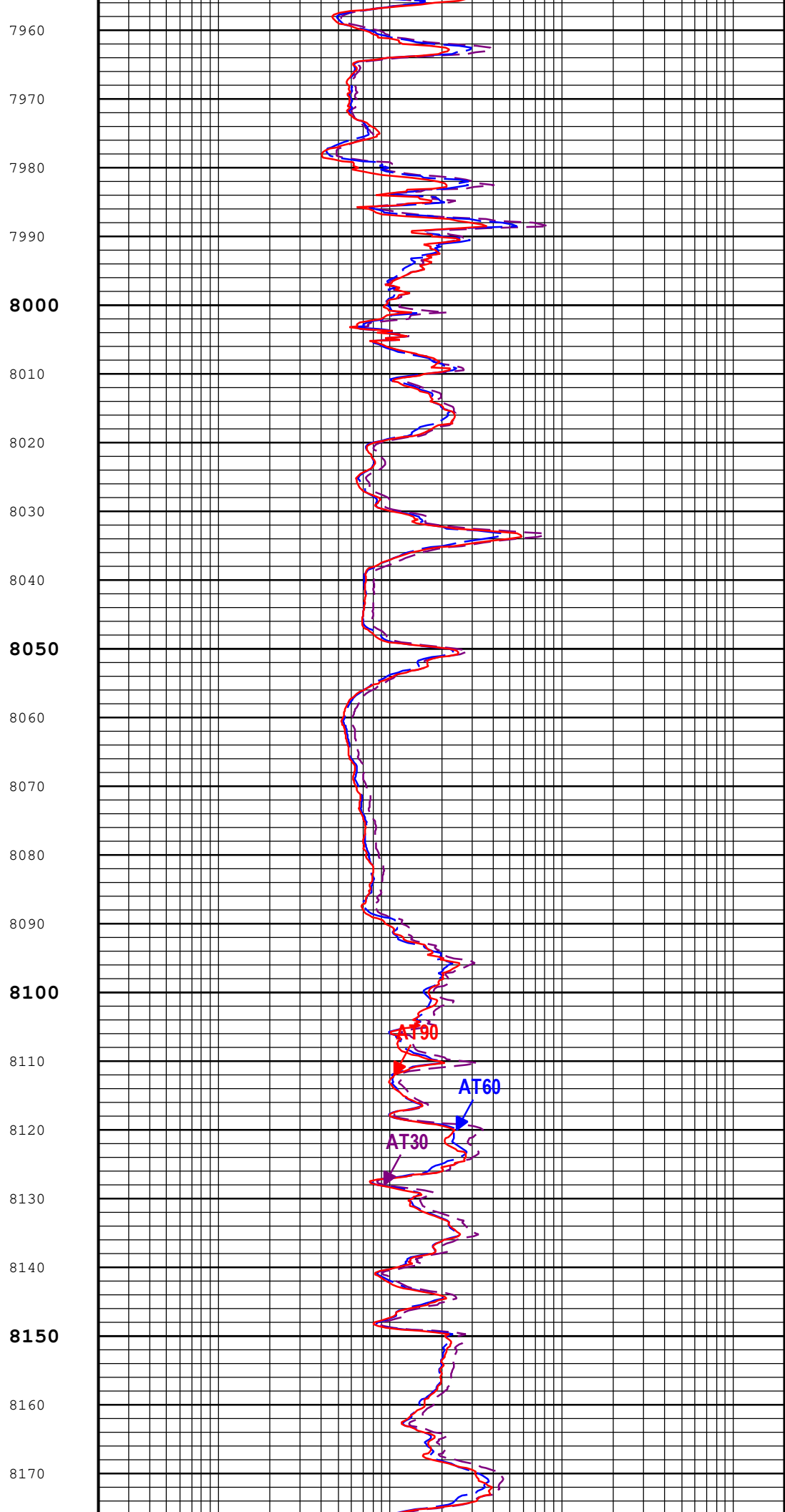
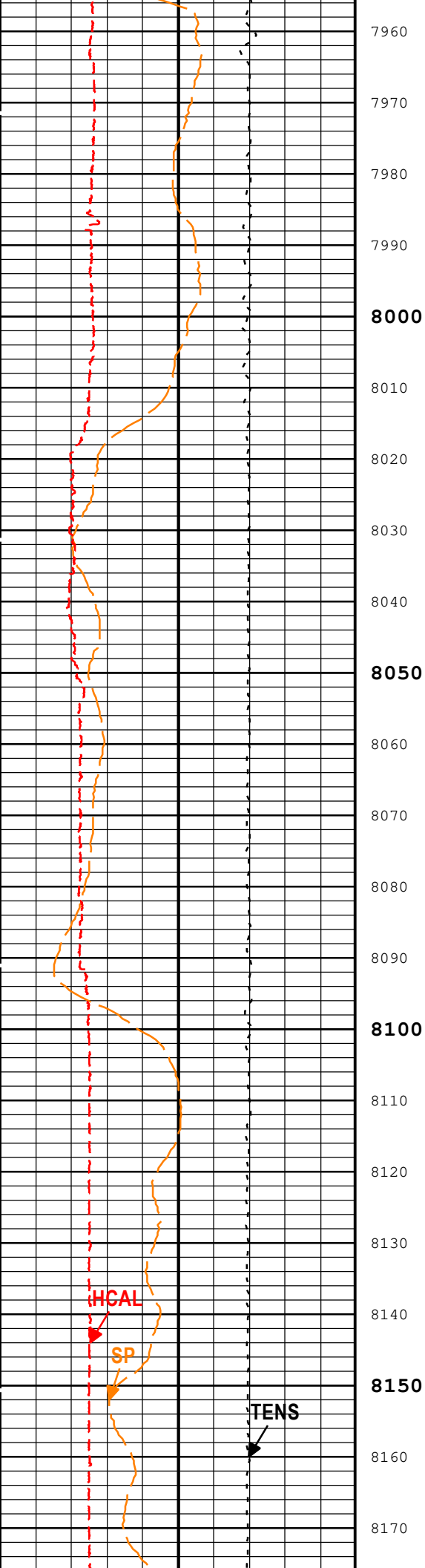


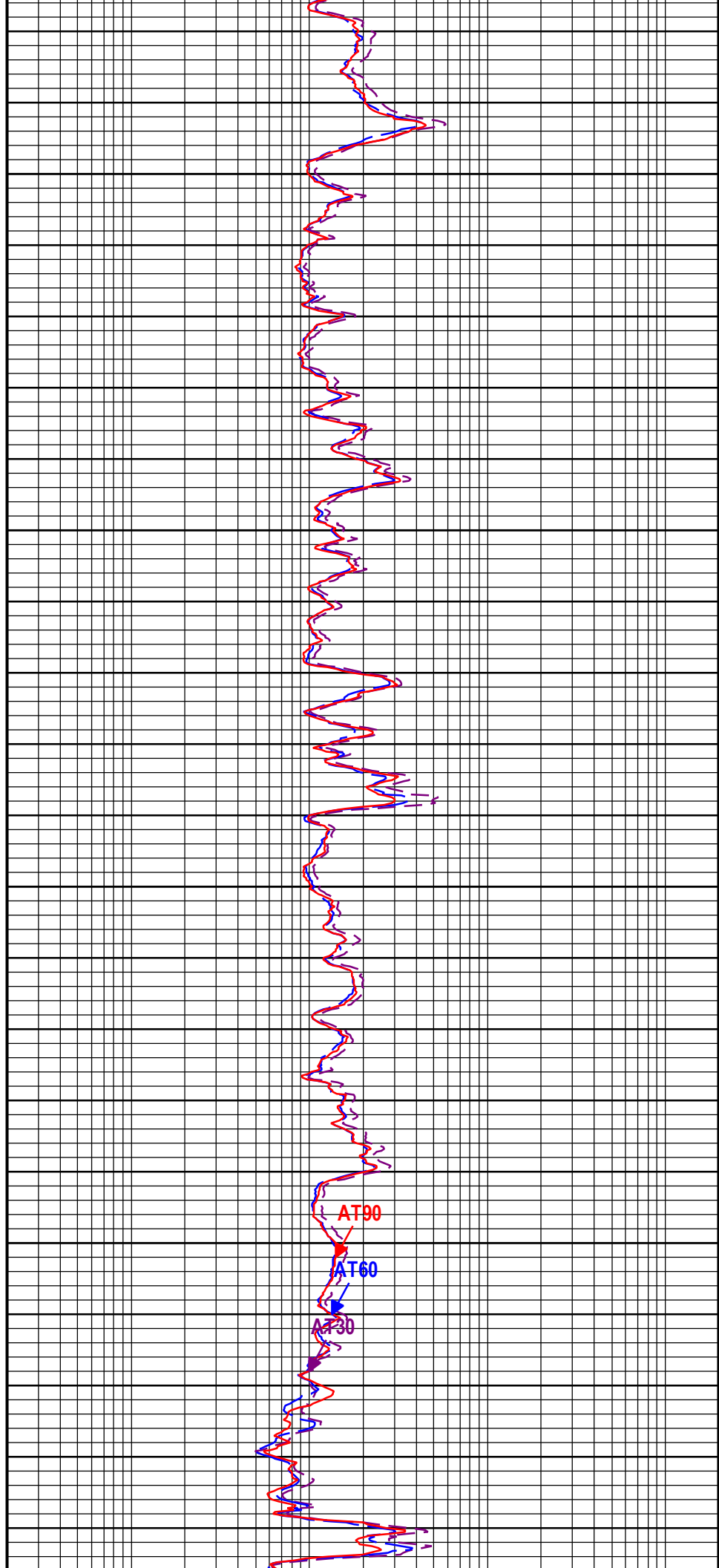
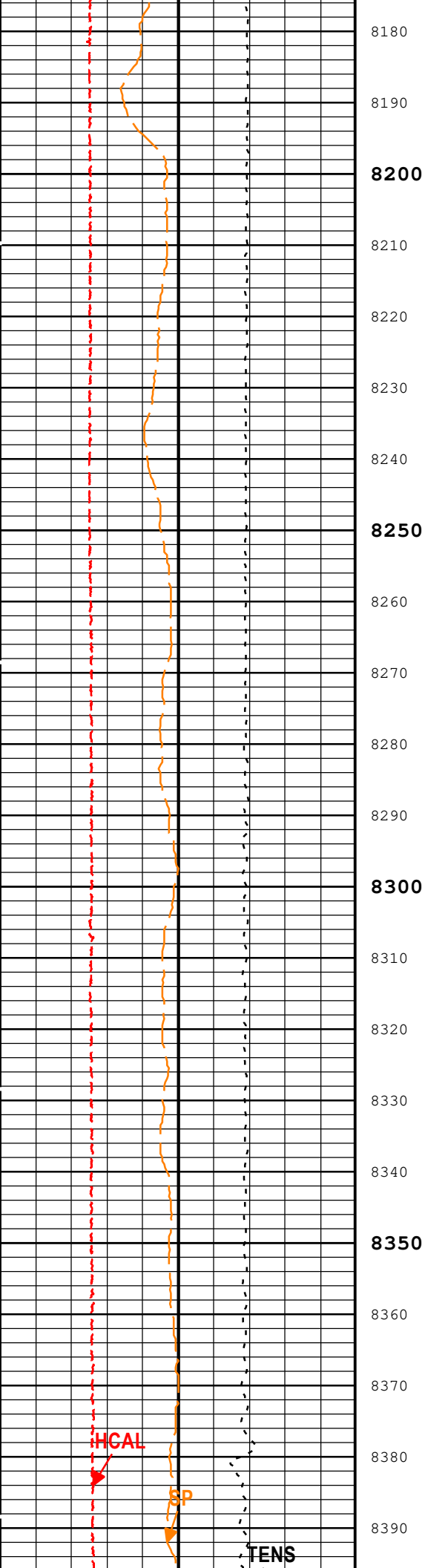


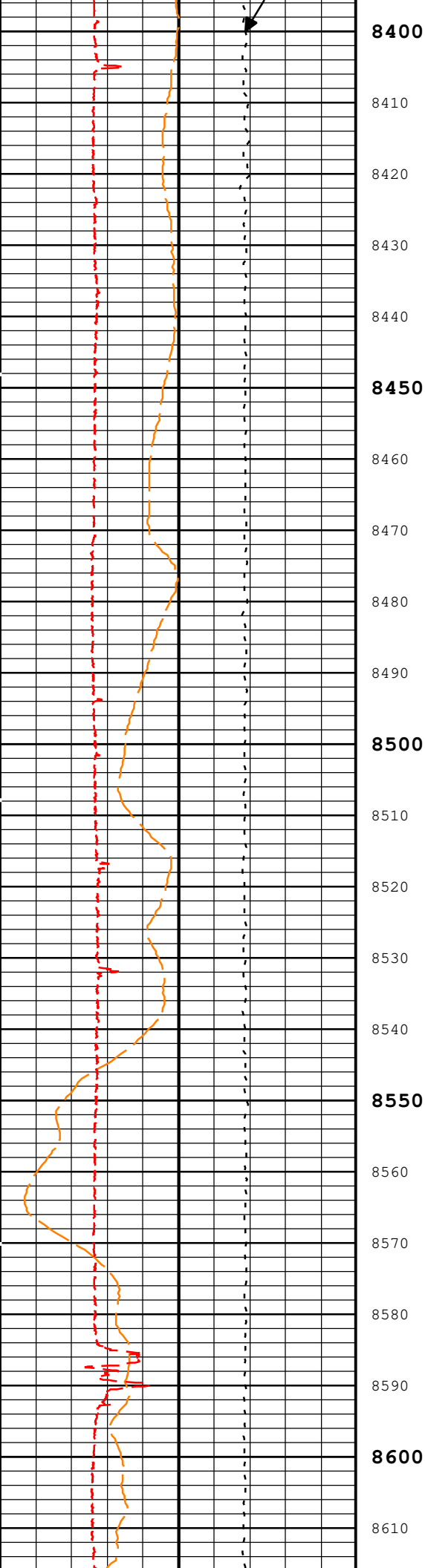












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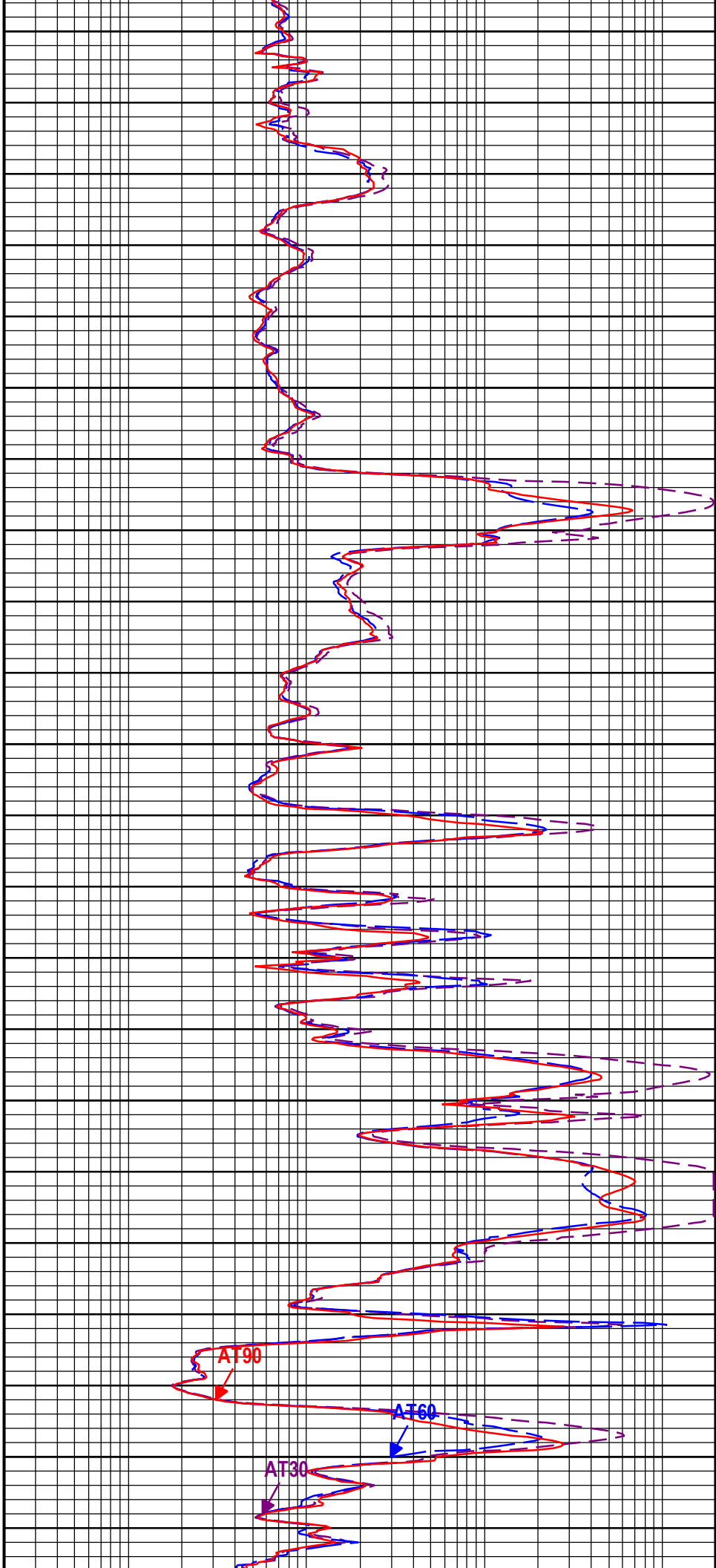
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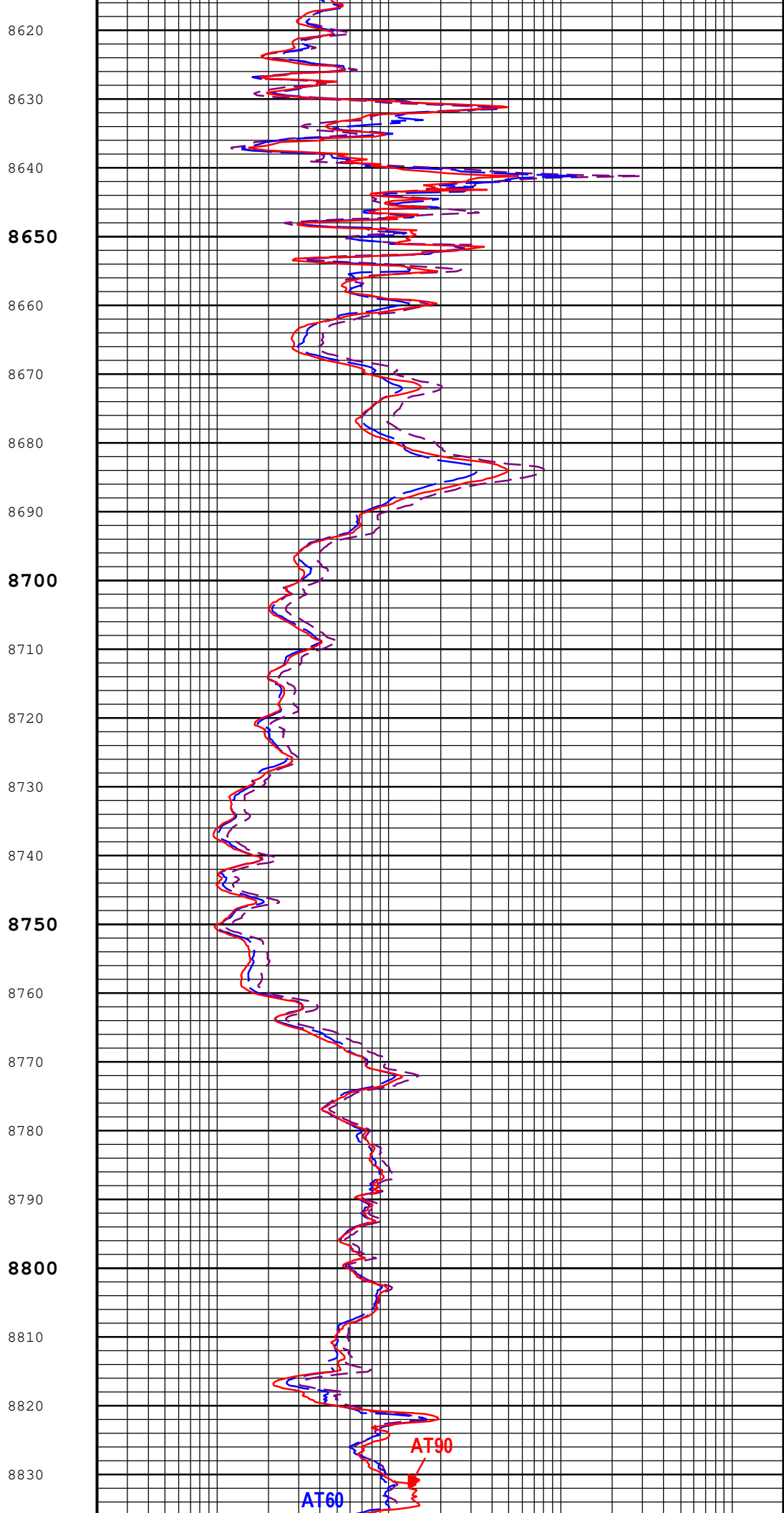
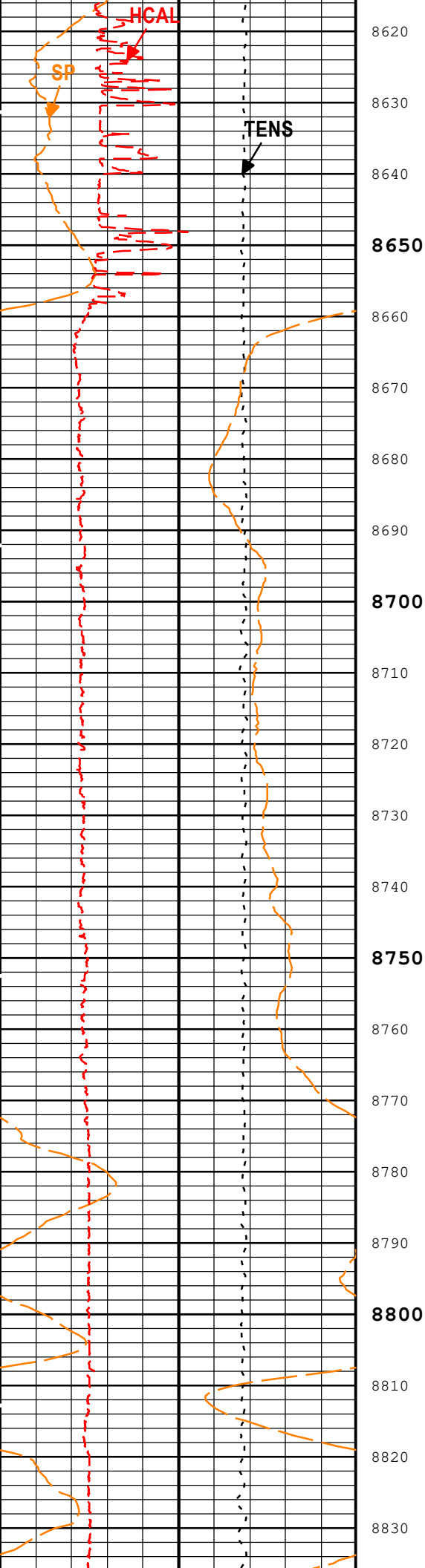
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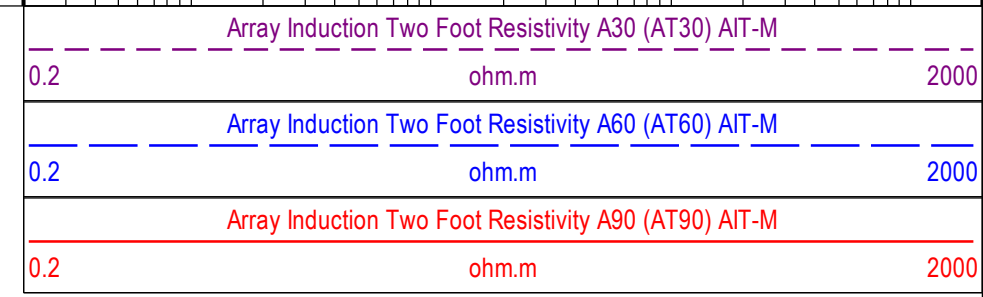
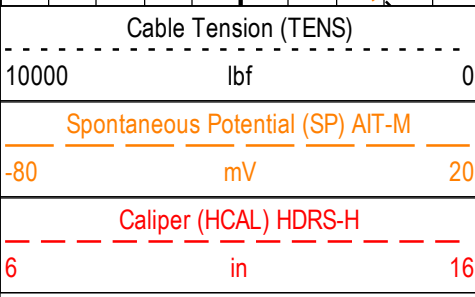
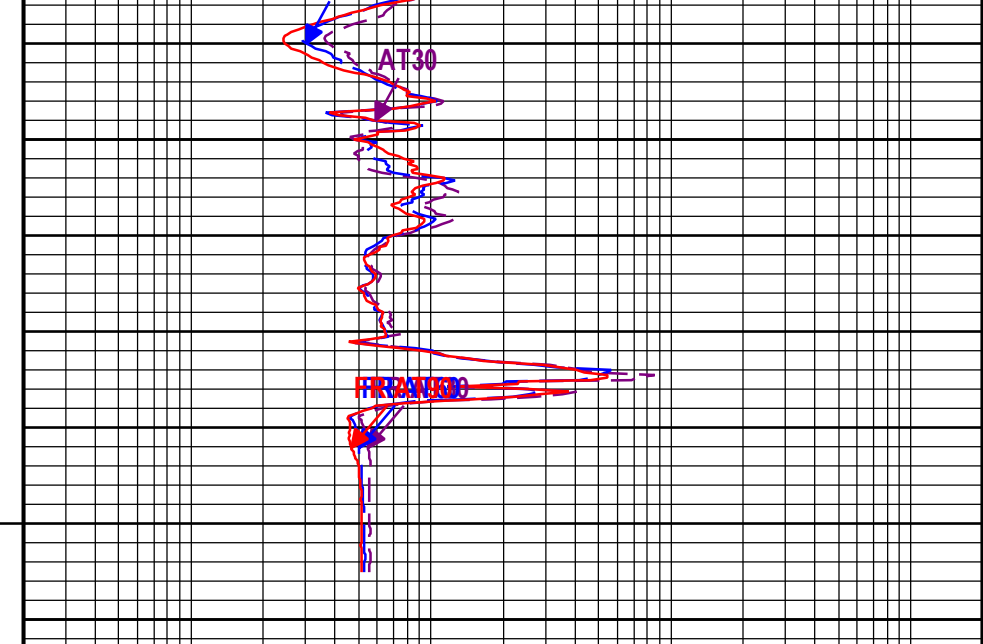
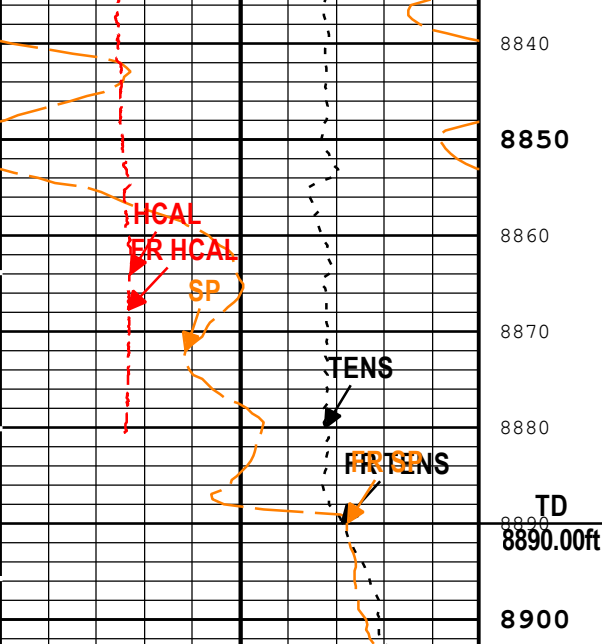
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8610









TIME\_1900 - Time Marked every 60.00 (s)

Description: HRLT BASIC LOG    Format: Log ( HRLA\_5\_Inch )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 21-Aug-2020 09:14:26

## 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	1.5	in
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	209	degF
BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	878	ft
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSESSION	22	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSESSION	4838	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	AMF	
GTSE	Generalized Temperature Selection, from Measured or Computed Sample Temperature	Borehole	GTEM_LINEST(RT)	
MST	Mud Sample Temperature	Borehole	68	degF
PDAT	Permanent Datum	WLSESSION	GL	
RMS	Resistivity of Mud Sample	Borehole	0.2	ohm.m
SHT	Surface Hole Temperature	Borehole	68	degF
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft
TD	Total Measured Depth	Borehole	8890	ft

Depth Zone Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	12.25	850	878
BS	8.75	878	8890

All depth are actual.

Tool Control Parameters

1A: Parameters

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

1A

Repeat Analysis 5"=100'

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[2]:Up	Up	8383.71 ft	8901.40 ft	21-Aug-2020 6:01:58 AM	21-Aug-2020 6:12:39 AM	ON	4.00 ft	No
1A	Log[3]:Up	Up	14.67 ft	8902.95 ft	21-Aug-2020 6:18:14 AM	21-Aug-2020 9:02:46 AM	ON	0.00 ft	No

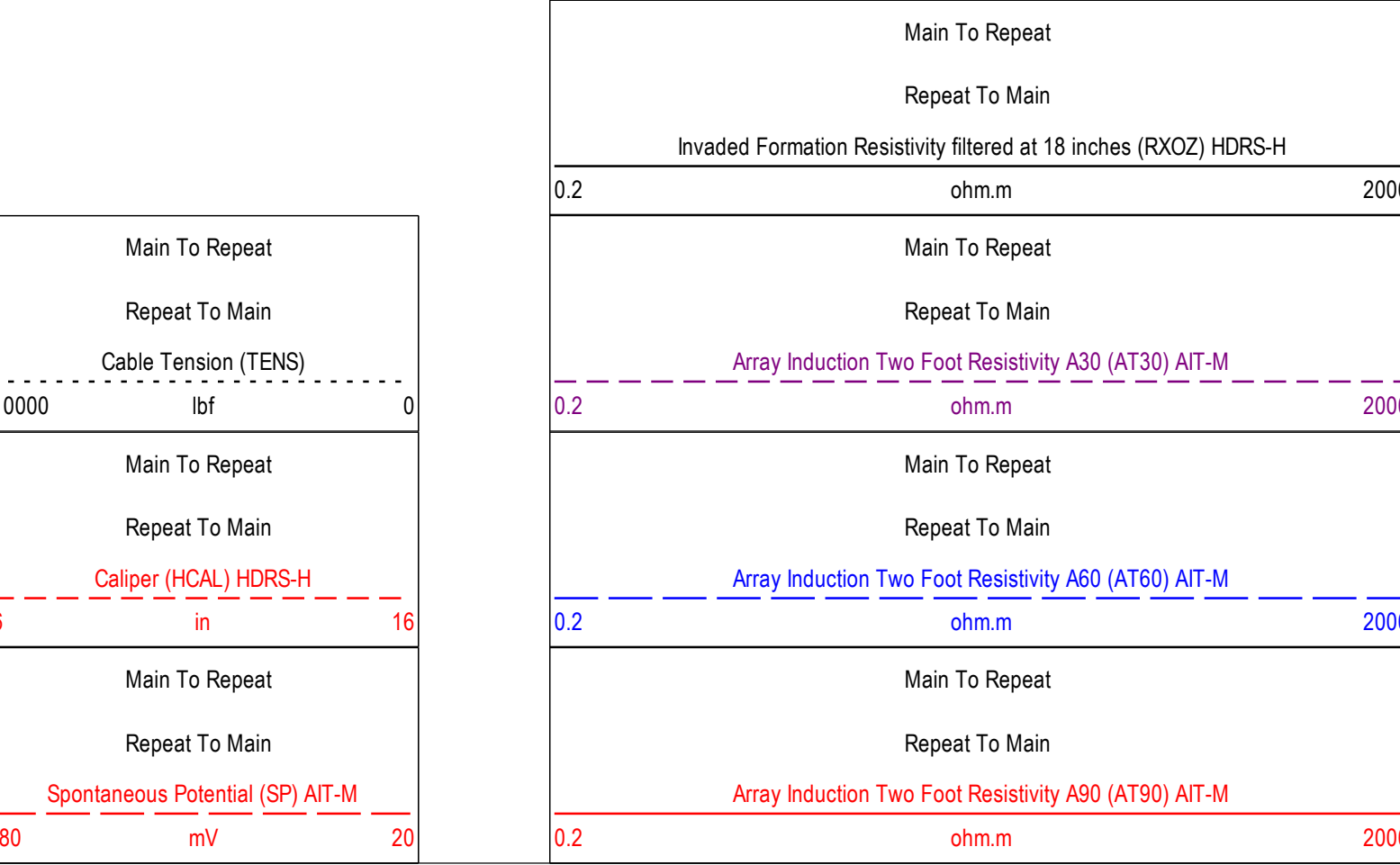
All depths are referenced to toolstring zero

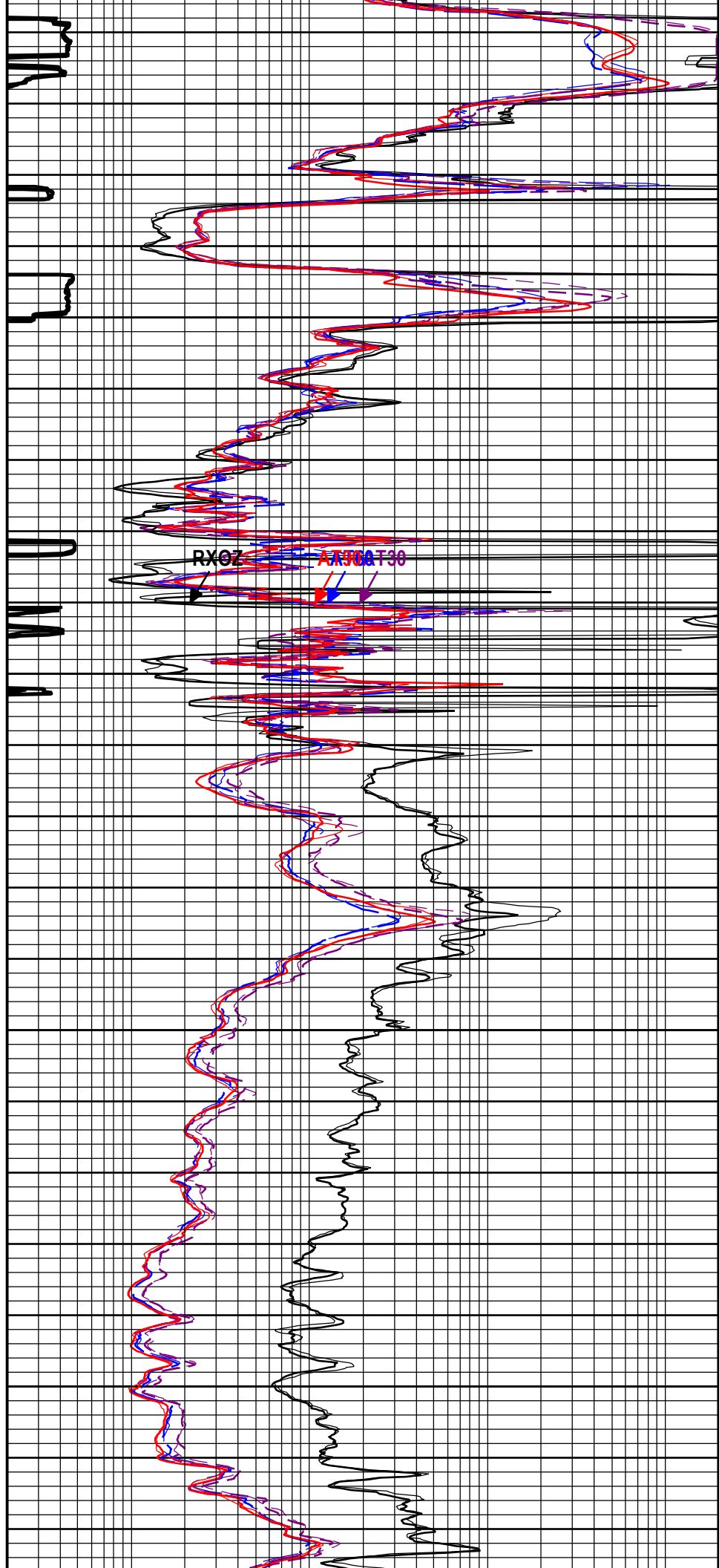
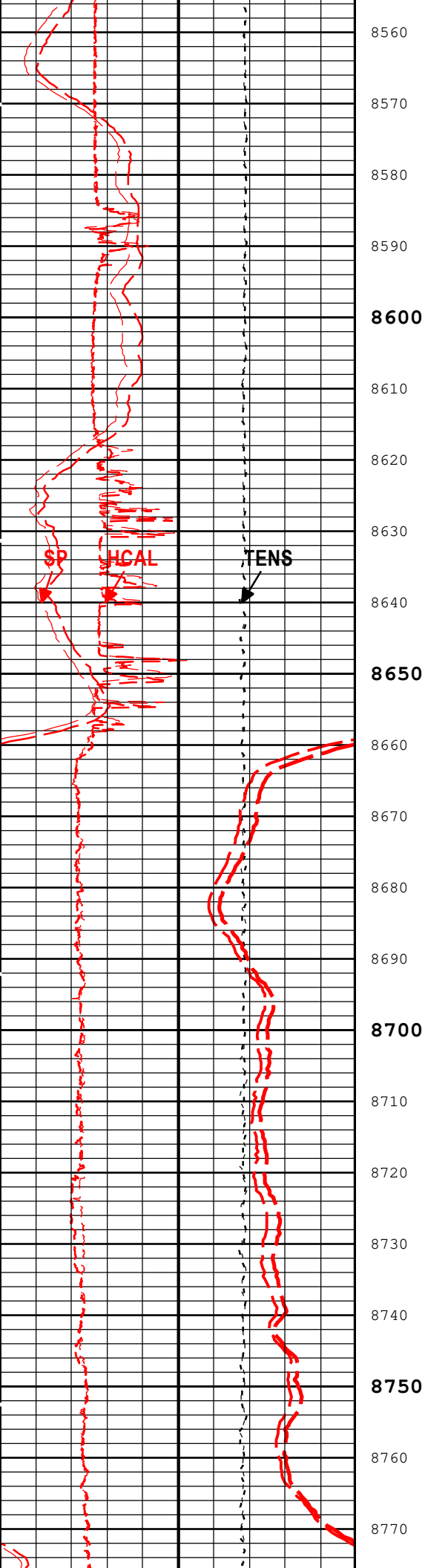
Log

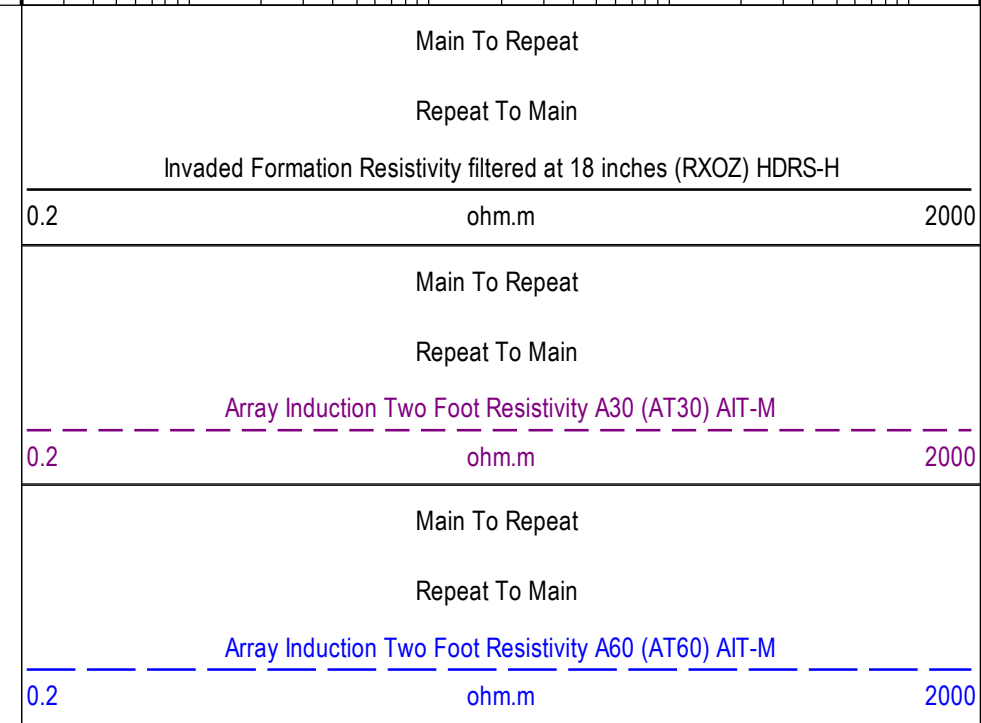
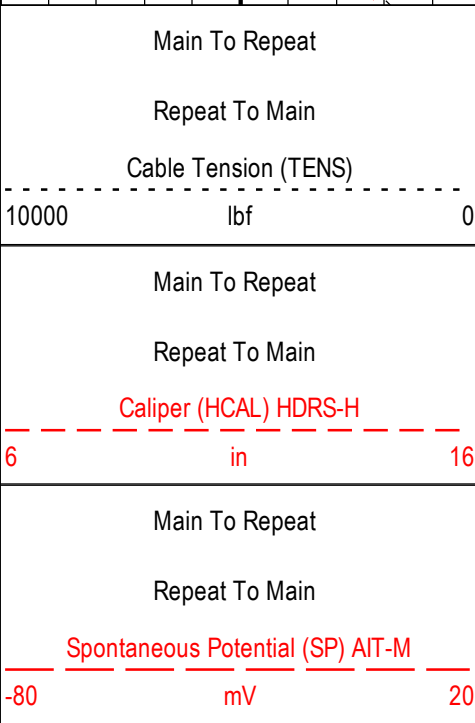
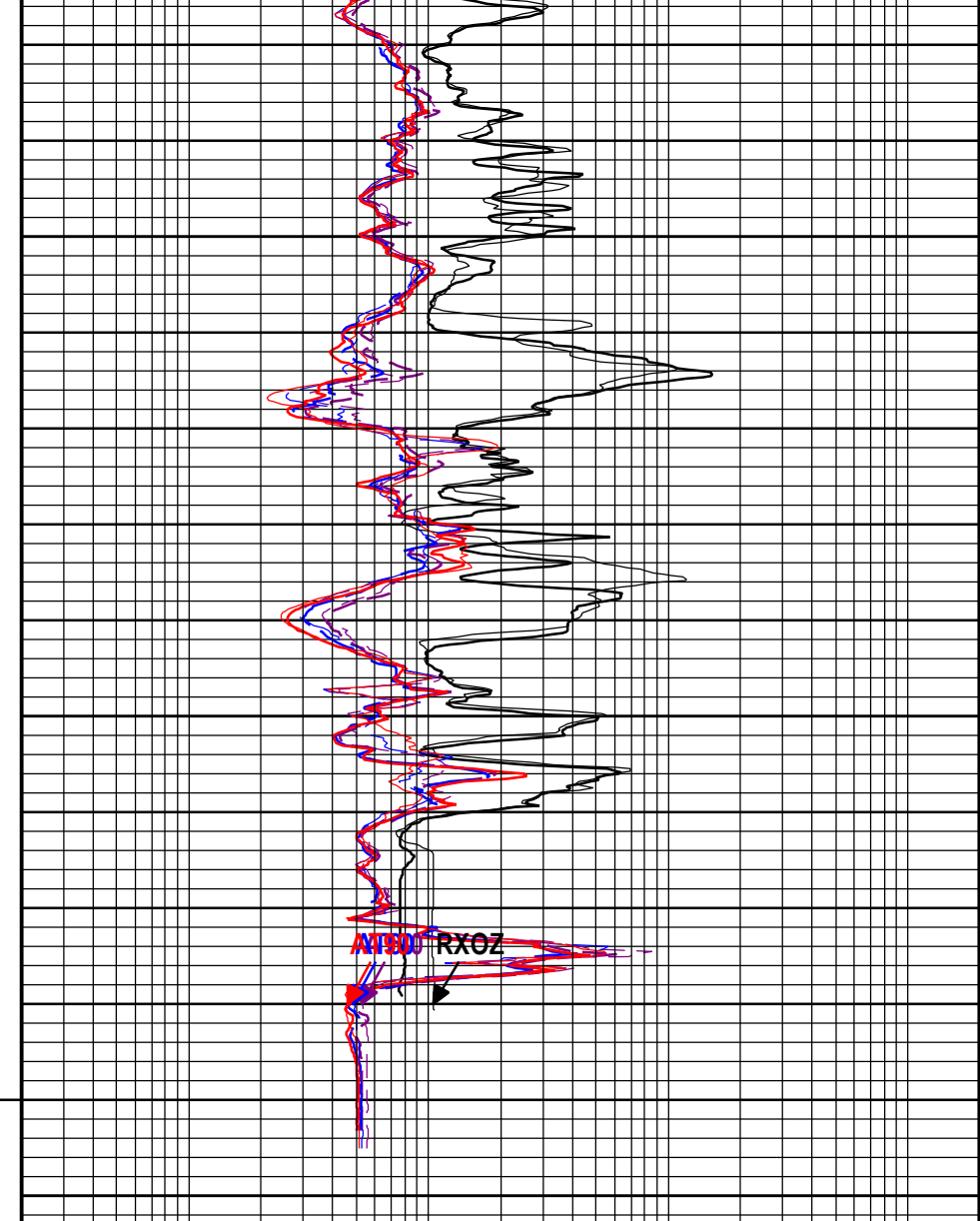
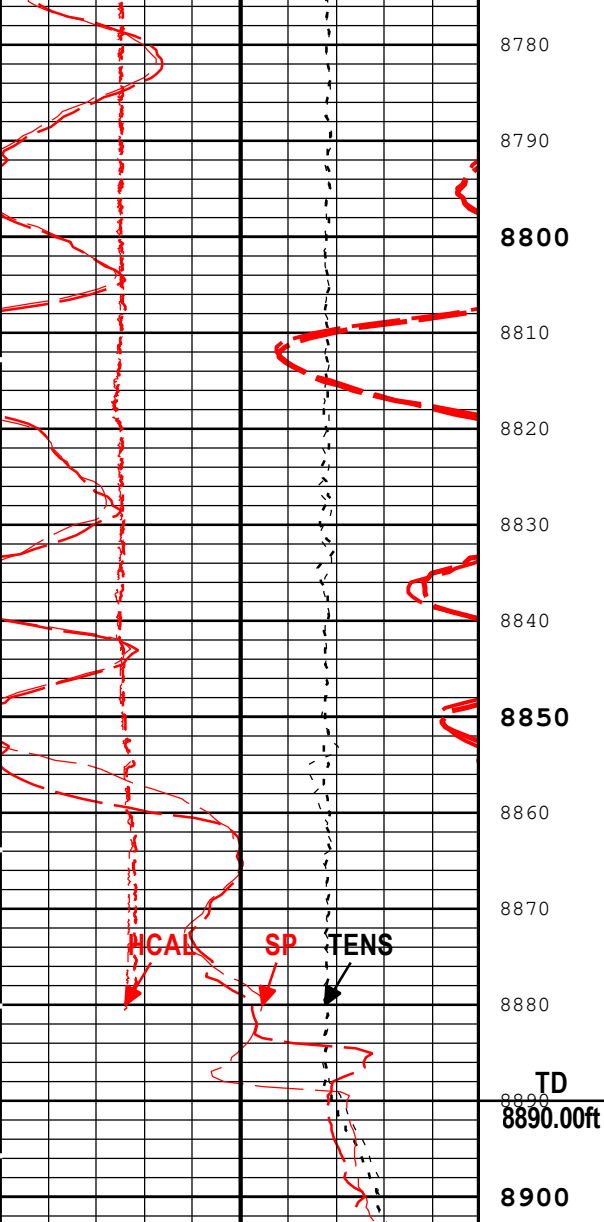
Company:Gulf Exploration LLC      Well:Black Powder #2  
1A: Log[3]:Up:S003

Description: HRLT BASIC LOG    Format: Log ( HRLA\_5\_Inch RA )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 21-Aug-2020 09:14:36

TIME\_1900 - Time Marked every 60.00 (s)







TIME\_1900 - Time Marked every 60.00 (s)

Description: HRLT BASIC LOG   Format: Log ( HRLA\_5\_Inch RA )   Index Scale: 5 in per 100 ft   Index Unit: ft   Index Type: Measured Depth   Creation Date: 21-Aug-2020 09:14:36

## 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

138

### AIT Sonde Calibration - Test Loop Gain

Master (EEPROM): 17:03:42 19-May-2020

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

### AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM): 17:03:42 19-May-2020

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-48.183	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	457.032	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	160.077	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	-136.689	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	109.784	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	11.194	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	51.917	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	-112.079	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	31.149	35.000	
Sonde Error Correction Quad - 4		Master	-----	-63.000	-12.261	63.000	
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	11.682	24.000	
Sonde Error Correction Quad - 5		Master	-----	-50.000	3.535	50.000	
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.483	15.000	
Sonde Error Correction Quad - 6		Master	-----	-30.000	-2.386	30.000	
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-2.191	5.000	
Sonde Error Correction Quad - 7		Master	-----	-30.000	8.741	30.000	

### AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM): 17:03:42 19-May-2020

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.887	1.200	
Fine Gain		Master	1.000	0.800	0.887	1.200	

### AIT Electronics Check - Thru Calibration Check

Master (EEPROM): 17:03:42 19-May-2020

Before (Measured):

18:19:26 20-Aug-2020

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
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Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	Bar Chart
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	0.615	0.854	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.001	----	<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	-174.077	-103.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.137	----	<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	1.260	1.778	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.001	----	<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	-175.179	-104.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.138	----	<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	-178.829	-108.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.137	----	<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	-179.614	-109.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.139	----	<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	1.320	1.876	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.001	----	<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	174.078	-115.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.137	----	<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	1.919	2.744	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.001	----	<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	172.385	-118.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.138	----	<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	1.917	2.744	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.001	----	<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	172.407	-119.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.135	----	<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	171.627	-125.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.132	----	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Zero	mV	Master		-50.000	-0.078	50.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before		-50.000	-0.060	50.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.018	----	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Plus	mV	Master		941.000	986.277	1040.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before		941.000	986.227	1040.000	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before-Master	----	----	-0.050	----	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Zero	V	Master		-0.050	0.000	0.050	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before		-0.050	0.000	0.050	<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>
Temperature Plus	V	Master		0.870	0.914	0.960	<div><div></div><div></div><div></div><div></div><div></div></div>
		Before		0.870	0.914	0.960	<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>

Company:	Gulf Exploration LLC	<b>Schlumberger</b>
Well:	Black Powder #2	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Platform Express		
High Resolution Laterolog Array		