Schlumberger

Company: Noble Energy Inc

Well: Rohn State LD10 63 1HN

Field: Wattenberg

County: Weld State: Colorado

County: Weld
Field: Wattenberg
Location: SHL: 848' FSL & 330' FEL
Well: Rohn State LD10 63 1HN
Company: Noble Energy Inc

Platform Express
Array Induction
with Linear Correlation

Location:		Elev.:		
	SHL: 848' FSL & 330' FEL		K.B.	4743.00 ft
	Section 9, Township 9N, Range 58W		G.L.	4719.00 ft
	Lat: 40.760910, Long: -103.861070		D.F.	4742.00 ft
	Permanent Datum: Ground Level	Elev.:	4719.00 f	
	Log Measured From: Kelly Bushing	24.00 ft	above Perm.Datum	
	Drilling Measured From: Kelly Bushing			

API Serial No.	Section:	Township:	Range:
05-123-37623-00	9	9N	58W

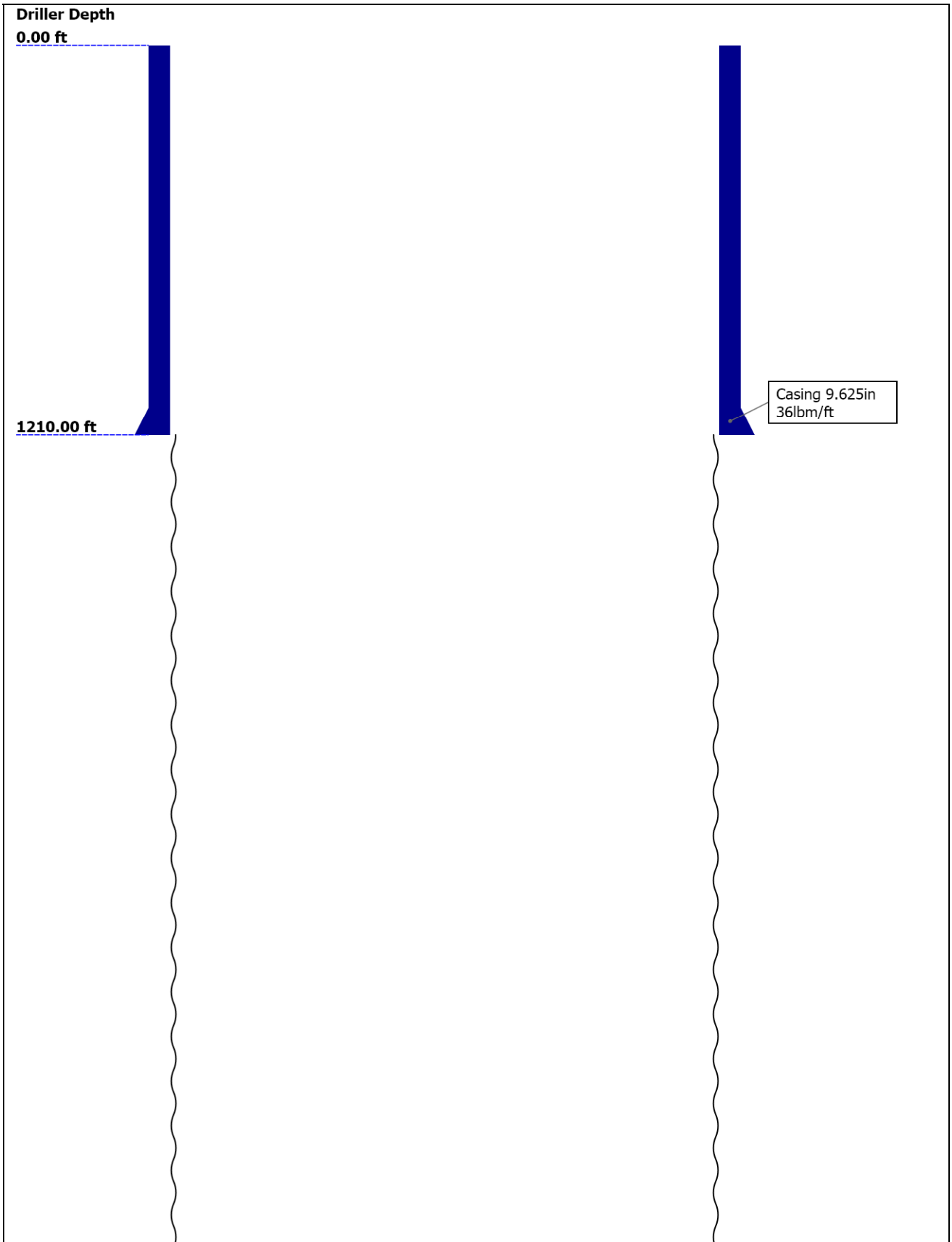
Logging Date			16-Oct-2014			
Run Number			Run 1			
Depth Driller			4880.00 ft			
Schlumberger Depth			4884.50 ft			
Bottom Log Interval			4884.50 ft			
Top Log Interval			1207.50 ft			
Casing Driller Size @ Depth			9.625 in @ 1210.00 ft			
Casing Schlumberger			1207.5 ft			
Bit Size			8.75 in			
Type Fluid In Hole			Water			
MUD	Density	Viscosity	9.7 lbm/gal	45 s		
	Fluid Loss	PH	6.4 cm3	8.9		
	Source of Sample		Active Tank			
RM @ Meas Temp			1.35 ohm.m @ 71 degF			
RMF @ Meas Temp			1.01 ohm.m @ 71 degF			
RMC @ Meas Temp			1.69 ohm.m @ 71 degF			
Source RMF	RMC		Calculated	Calculated		
RM @ BHT	RMF @ BHT		0.94 @ 105	0.7 @ 105		
Max Recorded Temperatures			105 degF			
Circulation Stopped	Time		16-Oct-2014	06:00:00		
Logger on Bottom	Time		17-Oct-2014	11:30:51		
Unit Number	Location:		3022	Fort Morgan, CO		
Recorded By			Max Pace			
Witnessed By			Toby Sanders			

Disclaimer

Contents

11. Calibration Report
12. Tail

Well Sketch



Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	8.75					
Top Driller (ft)	1210					
Top Logger (ft)	1210					
Bottom Driller (ft)	4880					
Bottom Logger (ft)	4884.5					
Casing						
Size (in)	9.625					
Weight (lbm/ft)	36					
Inner Diameter (in)	8.921					
Grade	J55					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	1210					
Bottom Logger (ft)	1207.5					

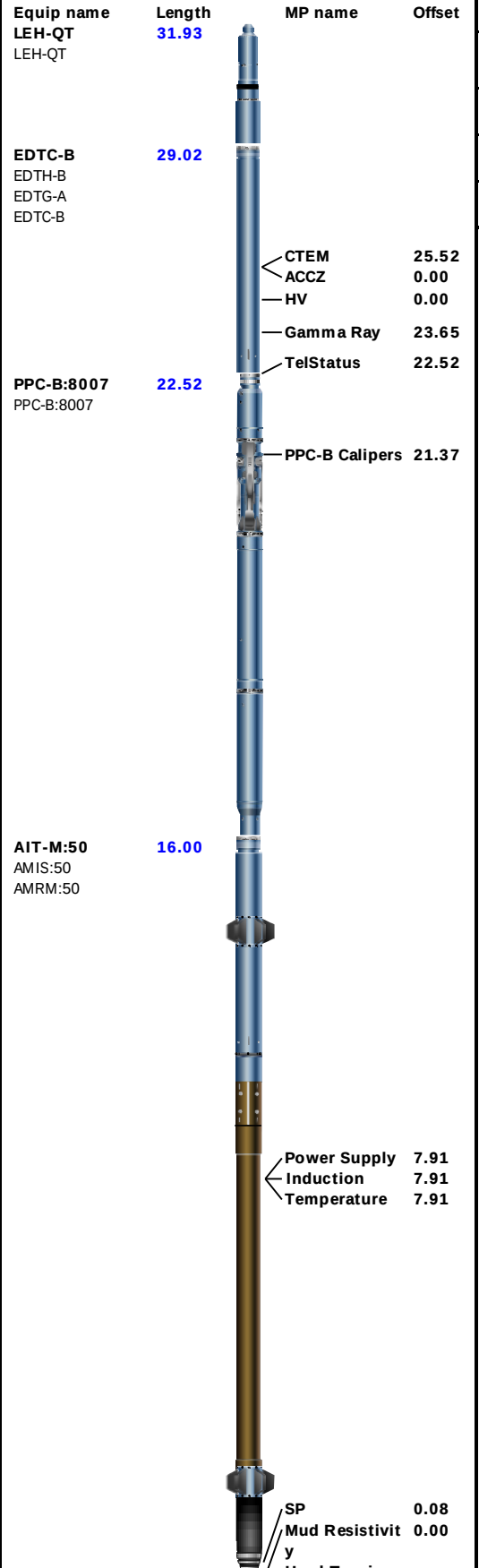
Borehole Fluids

Parameter(unit)	Run 1					
Fluid Type	Water					
Max Recorded Temperatures (degF)	105					
Source of Sample	Active Tank					
Salinity (ppm)	200					
Density (lbm/gal)	9.7					
Funnel Viscosity (s)	45					
Fluid Loss (cm3)	6.4					
PH	8.9					
Date/Time Circulation Stopped	16-Oct-2014 06:00:00					
Date Logger on Bottom	17-Oct-2014					
Time Logger on Bottom	11:30:51					
Source RMF	Calculated					
RMC	Calculated					
RM @ Meas Temp (ohm.m@degF)	1.35 @ 71					
RMF @ Meas Temp (ohm.m@degF)	1.01 @ 71					
RMC @ Meas Temp (ohm.m@degF)	1.69 @ 71					

RM @ BHT (ohm.m@degF)	0.94 @ 105					
RMF @ BHT (ohm.m@degF)	0.7 @ 105					
RMC @ BHT (ohm.m@degF)	1.17 @ 105					
Total Solid (%)						
High Gravity Solids (%)						

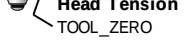
Remarks and Equipment Summary

Run 1: Toolstring



Run 1: Remarks

Run 1: Remarks
This is the first run in hole
All Schlumberger depth control procedures followed
IDW used as primary depth reference
Z Chart used as secondary depth reference
Crew: Troy Ocanas, Steve Palisoc



Lengths are in ft
Maximum Outer Diameter = 5.000 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

	Run 1		
Depth Measuring Device			
Type	IDW-B		
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	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	Land		

Run 1: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		

Run 1

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	538.12	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS	1523.26	ft3

Software Version

Acquisition System	Version
MaxWell	4.0.9163.3000
Application Patch	Patch-SP-10767_13393-4.0.9163.3001

Computation	Description	Version
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels	4.0.9213.3000

Tool Elements	Description	Software Version	Firmware Version
AMIS	Array Induction Sonde - M	4.0.9247.3000	1
EDTC-B	Enhanced Digital Telemetry Cartridge - B	4.0.9119.3000	

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include

									Parallel Data
Run 1	Main[7]:Up	Up	199.95 ft	4897.44 ft	17-Oct-2014 11:37:18 AM	17-Oct-2014 12:26:15 PM	ON	0.00 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Noble Energy Inc Well:Rohn State LD10 63 1HN

Run 1: Main[7]:Up:S008

Description: AIT Basic Log Two Format: Log (Import (2) of KM 5in Induction Upper) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 17-Oct-2014 12:30:17

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
GR	EDTC-B:EDTC-B:EDTC-B	6in
ICV	Borehole	6in
IHV	Borehole	6in
INCL	WLWorkflow	6in
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 A90 (AT90) AIT-M

0.2 ohm.m 2000

Array Induction Two Foot Resistivity A10 (AT10) AIT-M

0.2 ohm.m 2000

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

0.2 ohm.m 2000

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

0.2 ohm.m 2000

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

0.2 ohm.m 2000

Gamma Ray (GR) EDTC-B

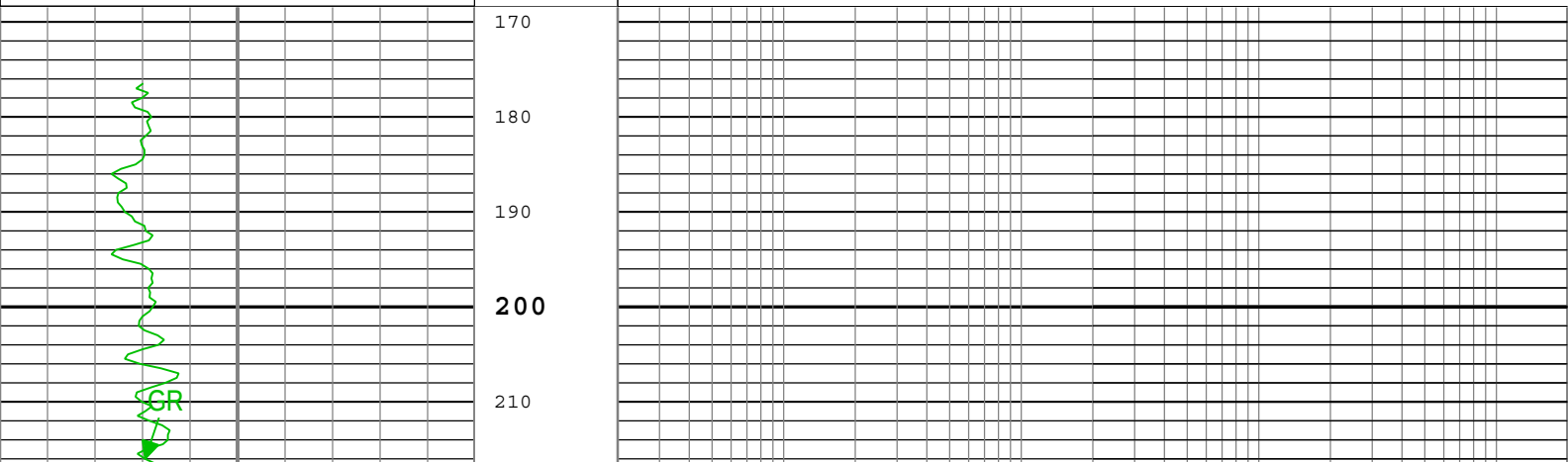
0 gAPI 150

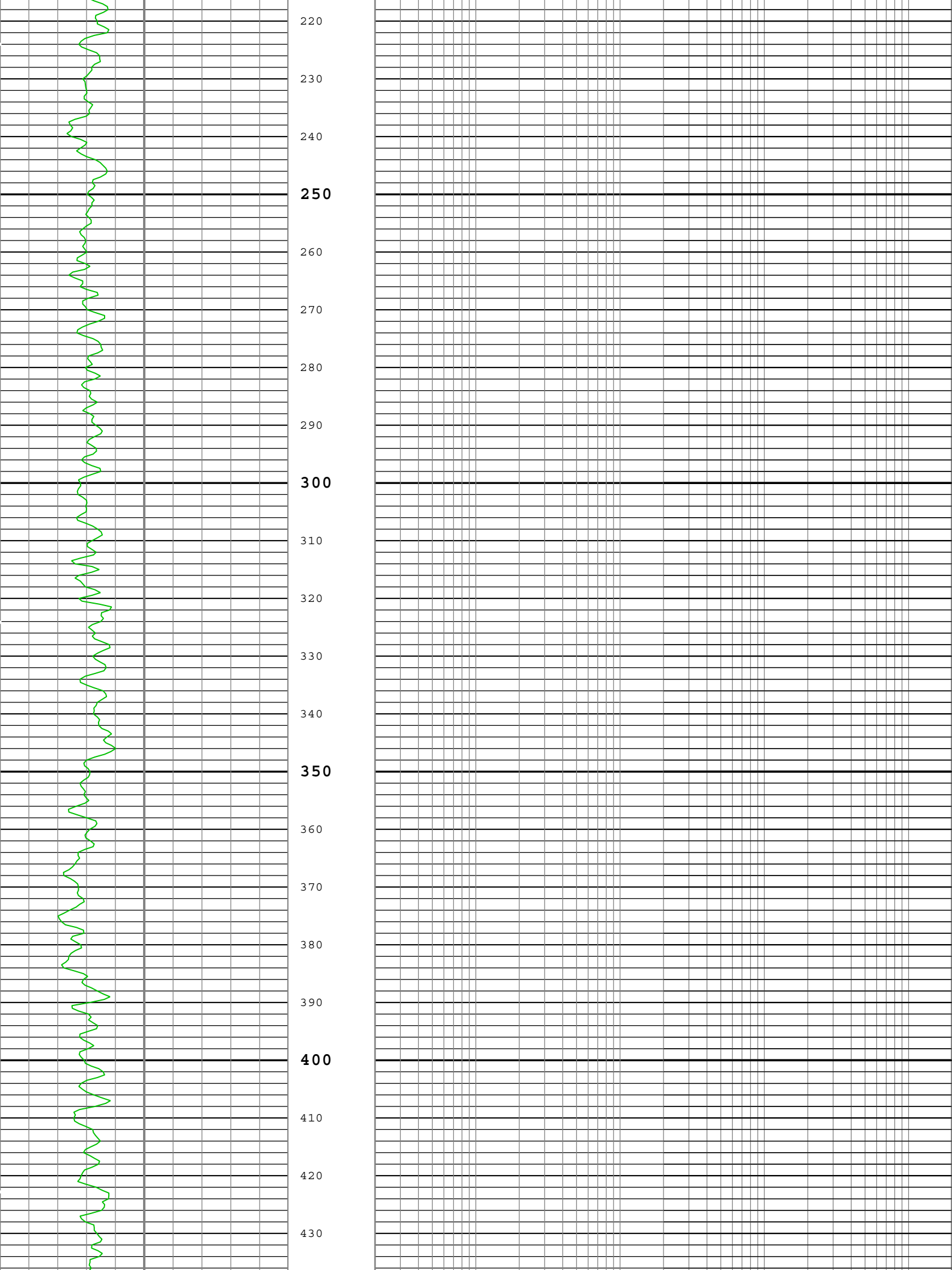
Spontaneous Potential (SP) AIT-M

-80 mV 20

Hole inclination (INCL)

0 deg 50

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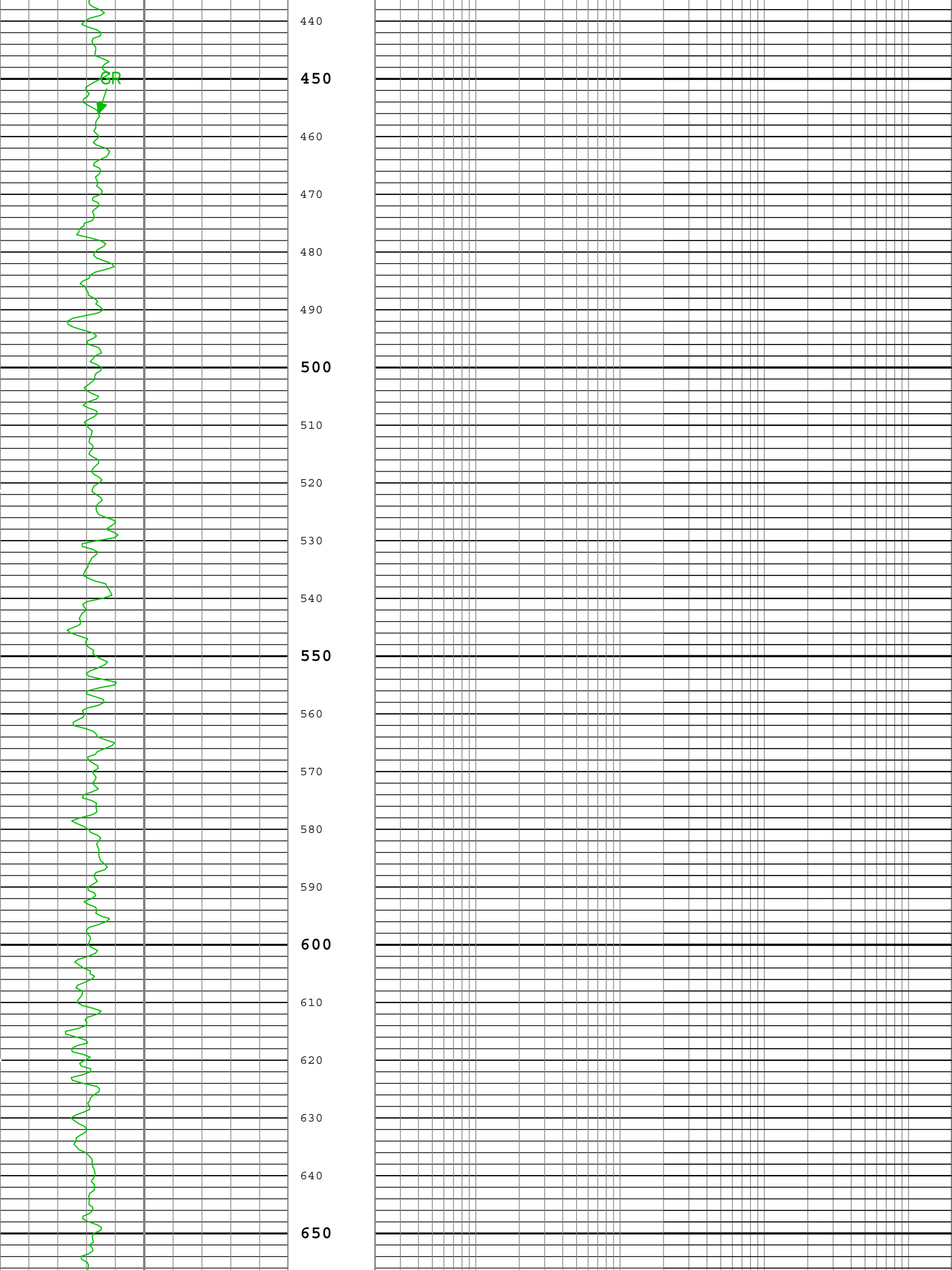
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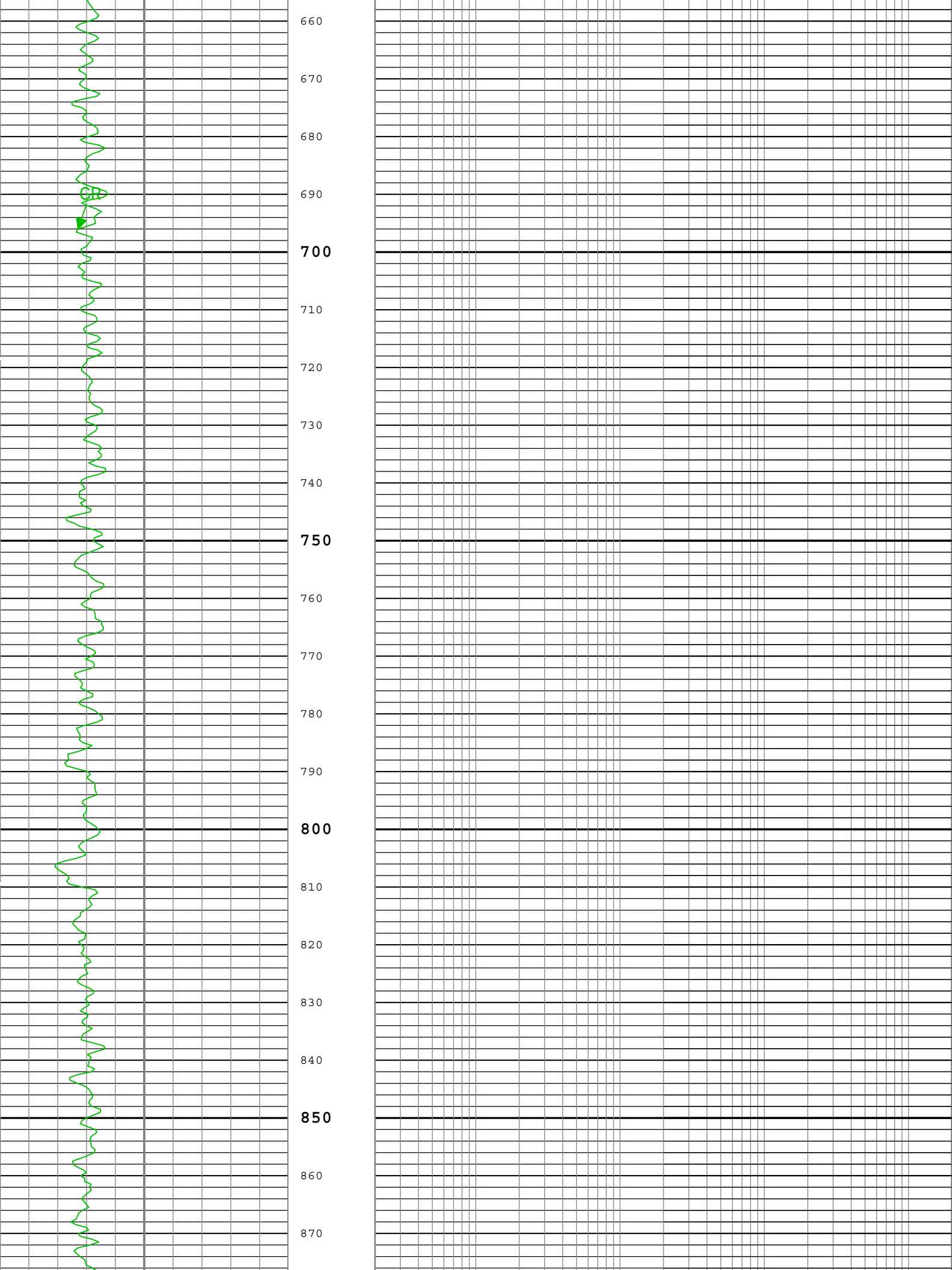
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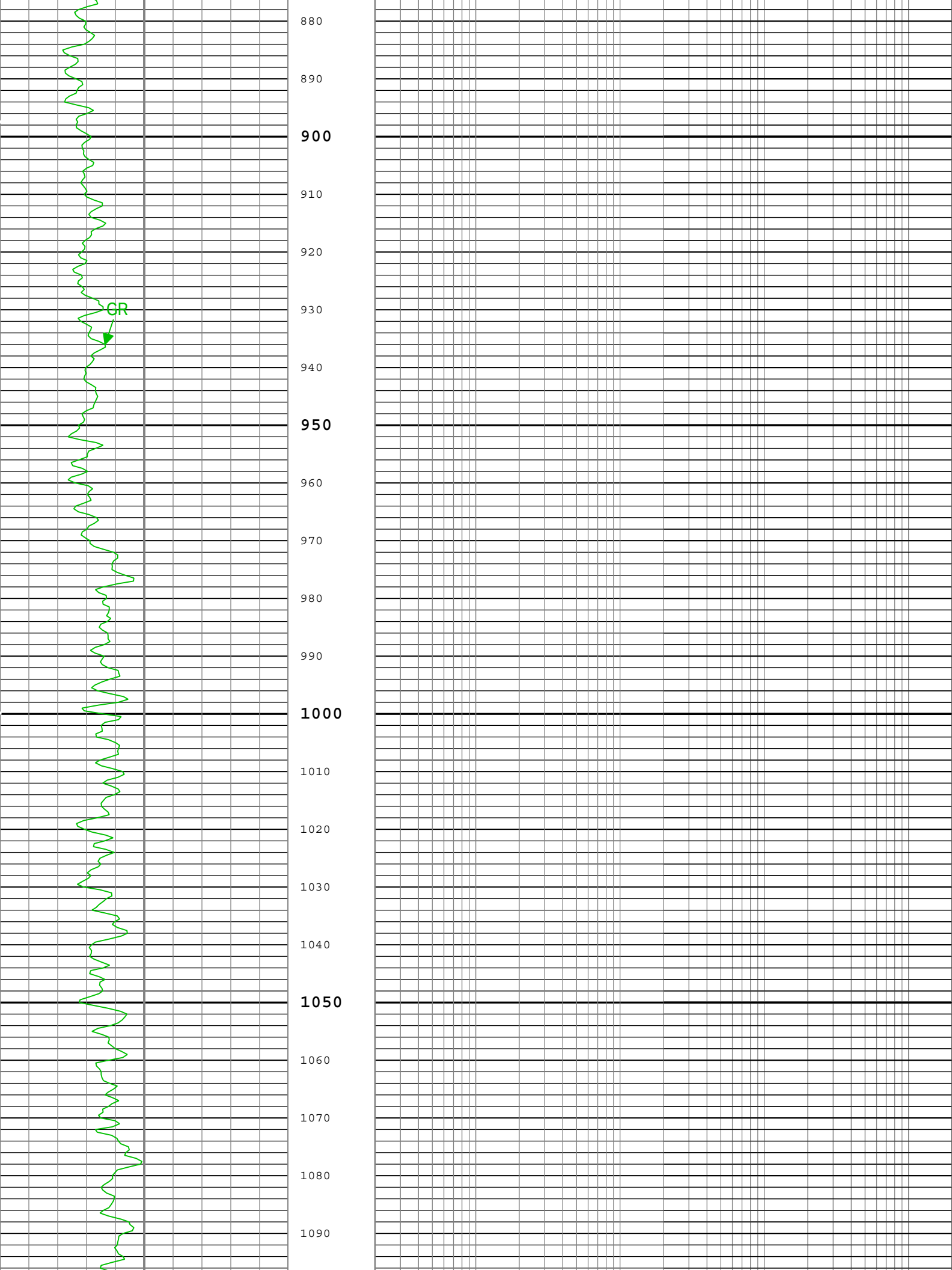
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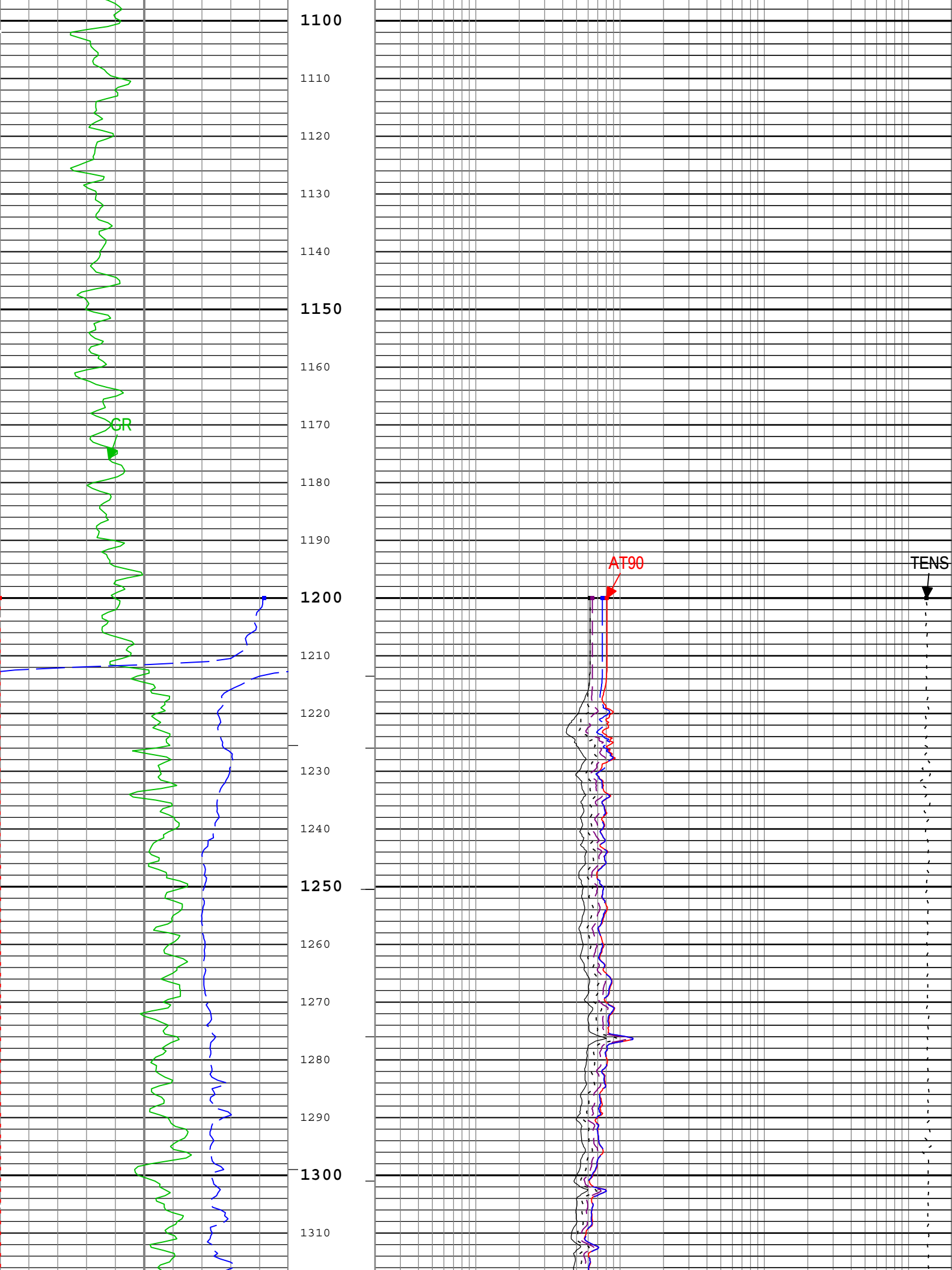
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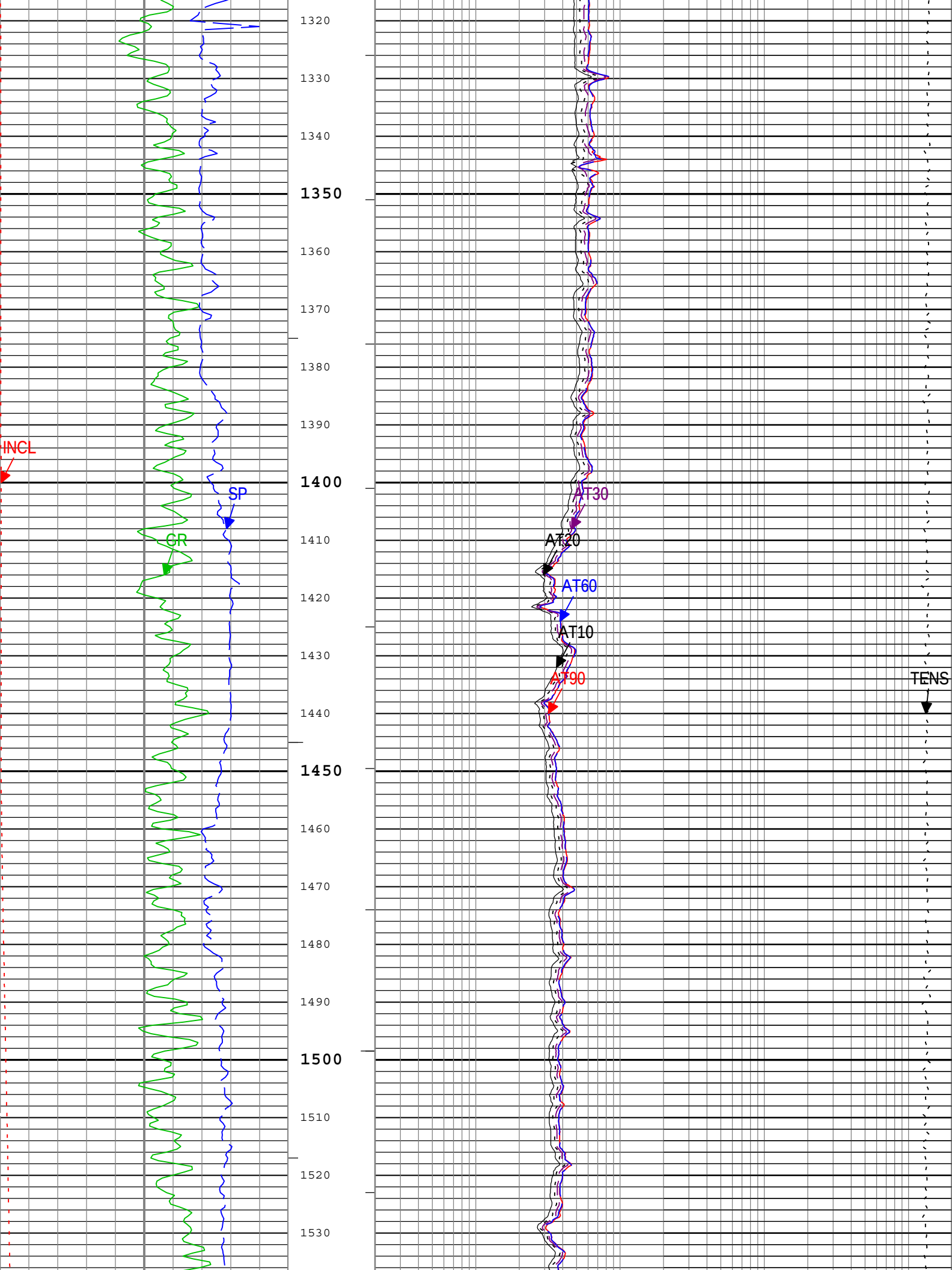
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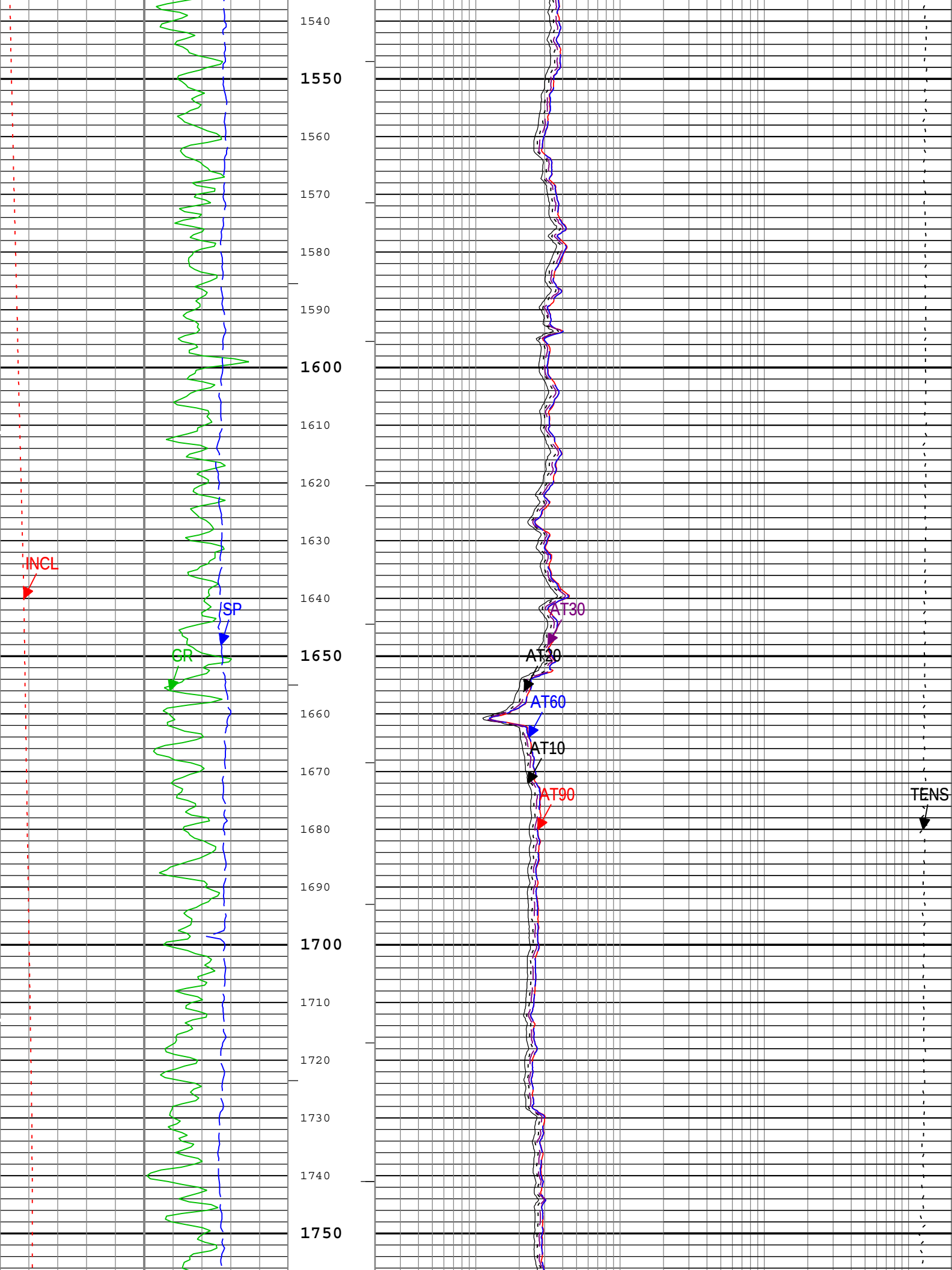
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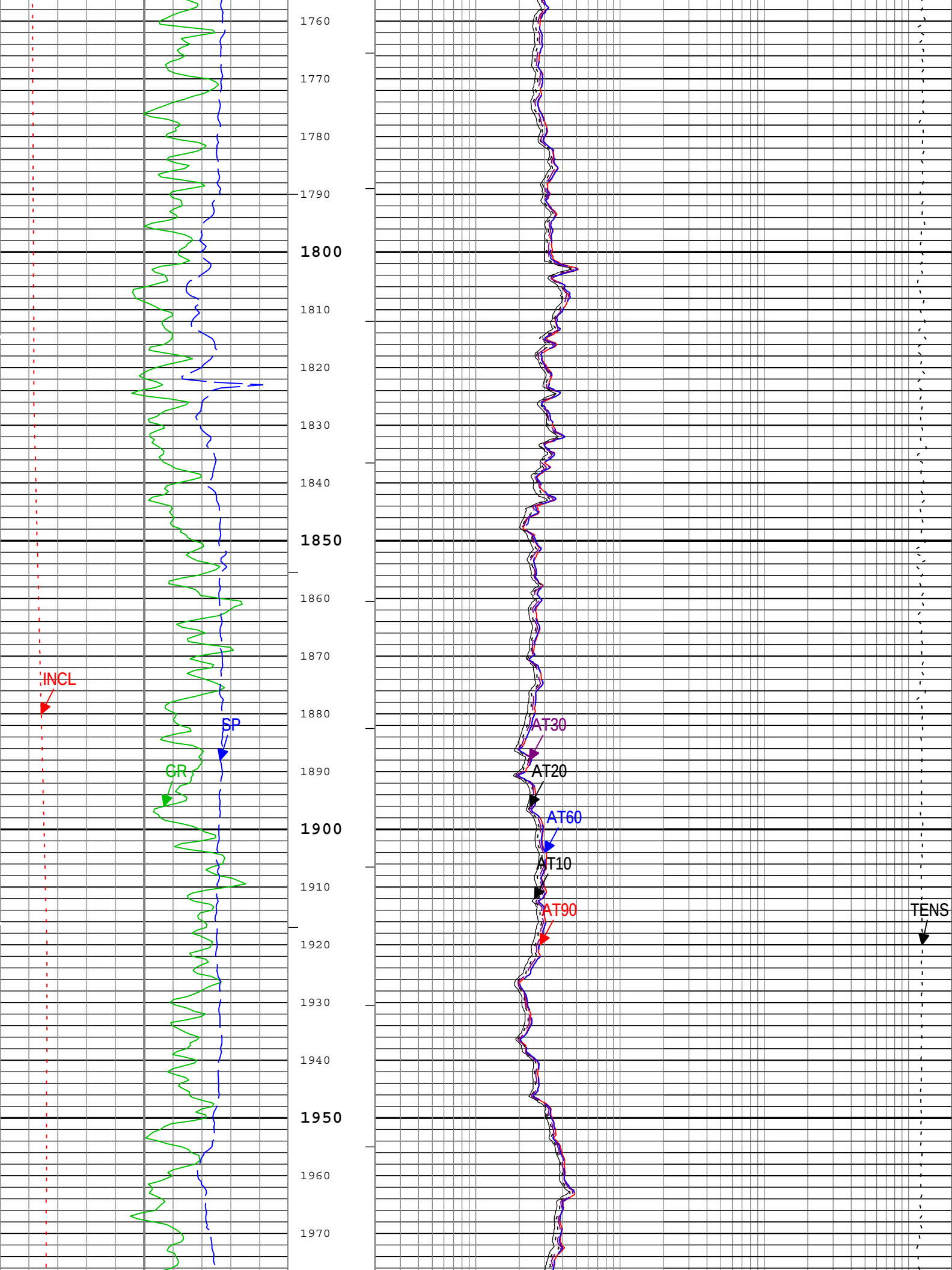
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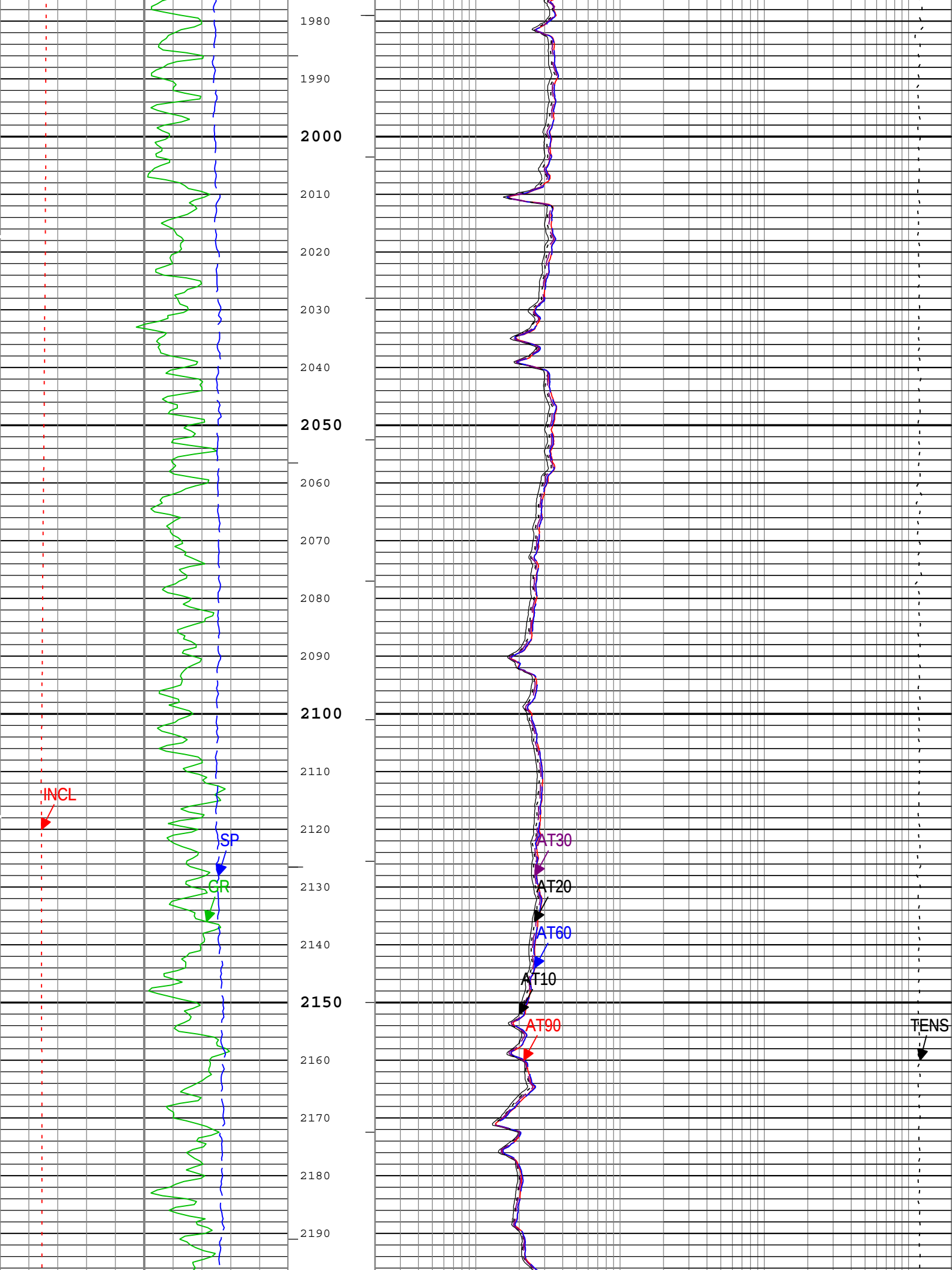
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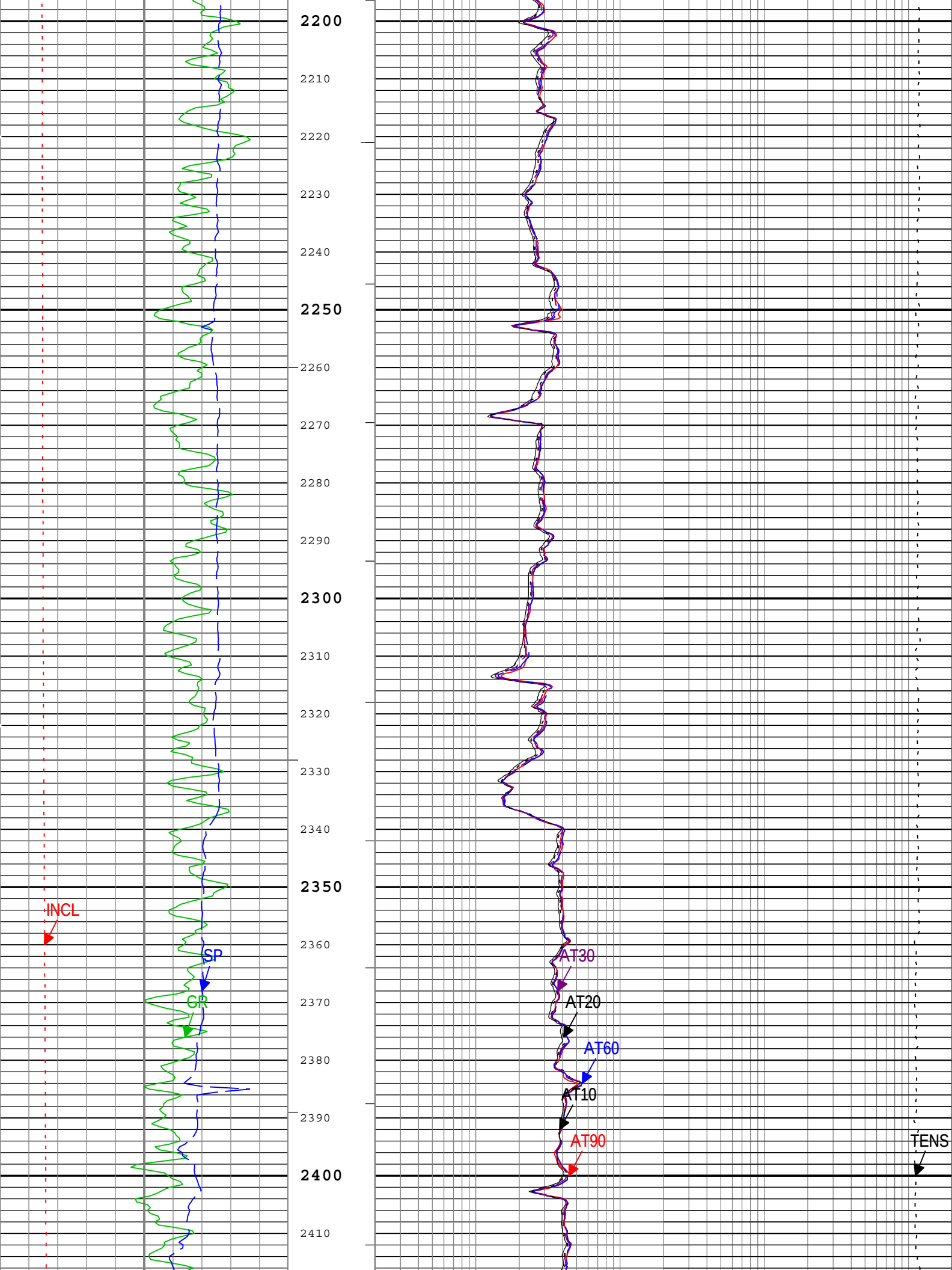
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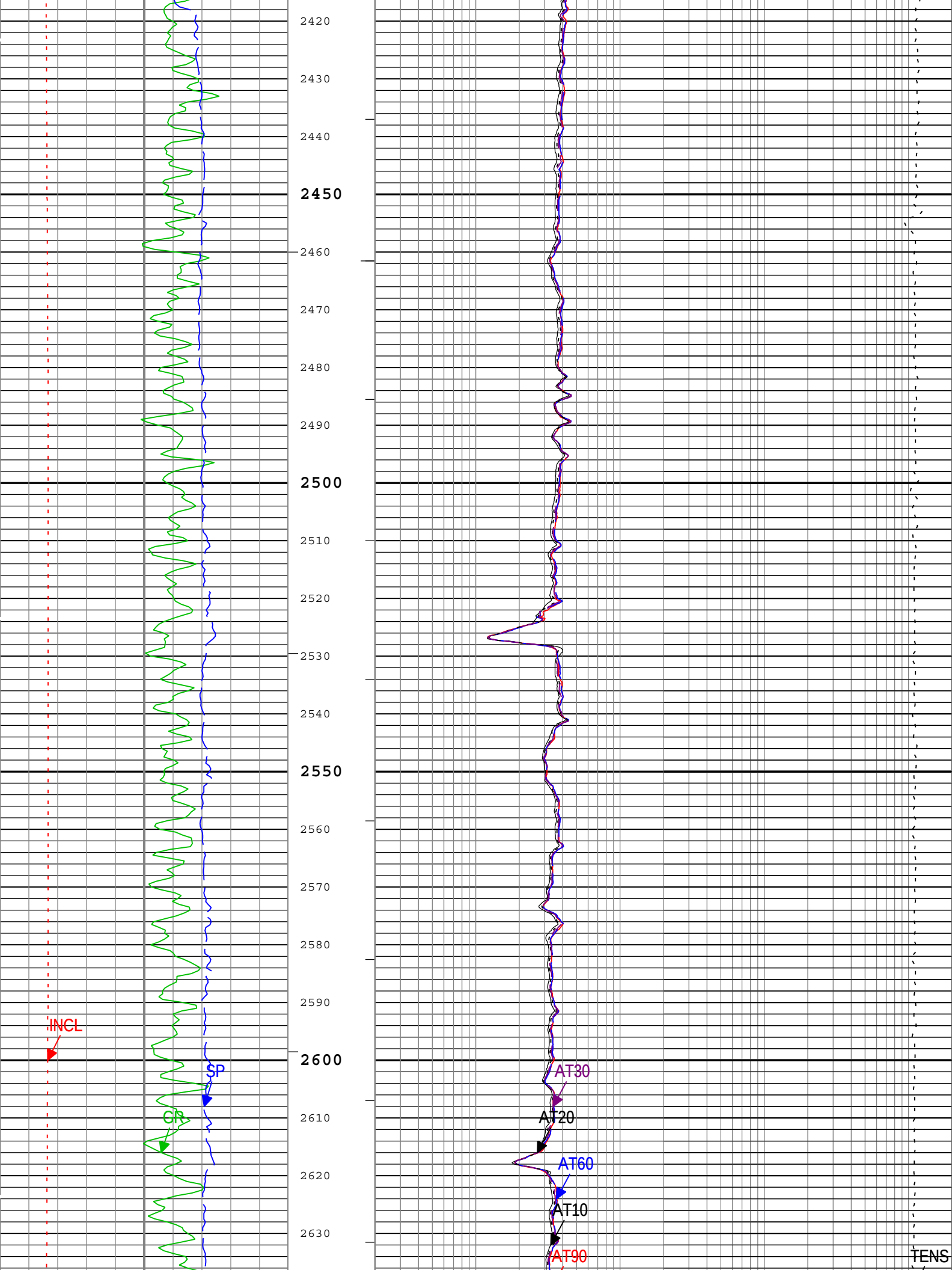
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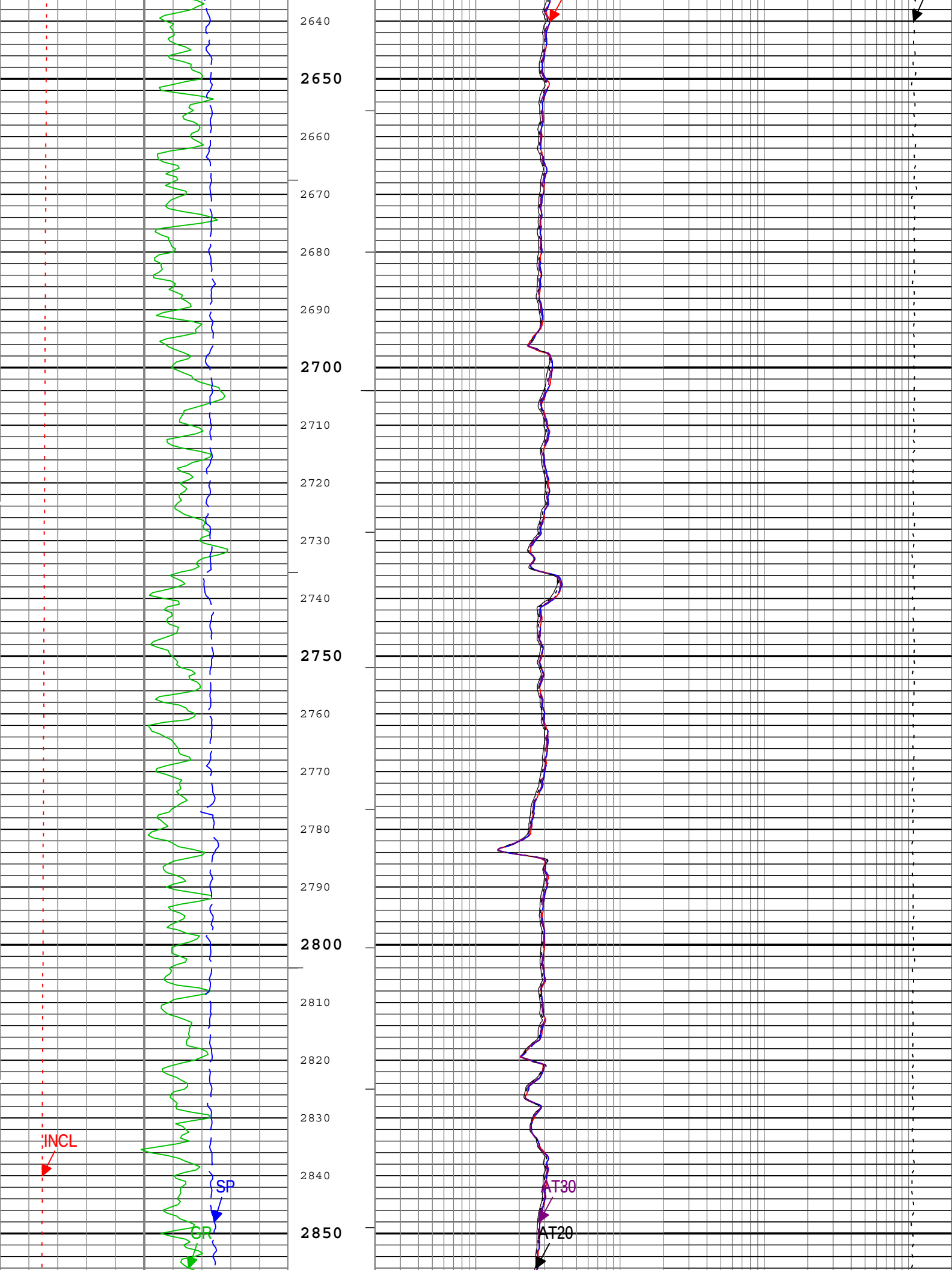
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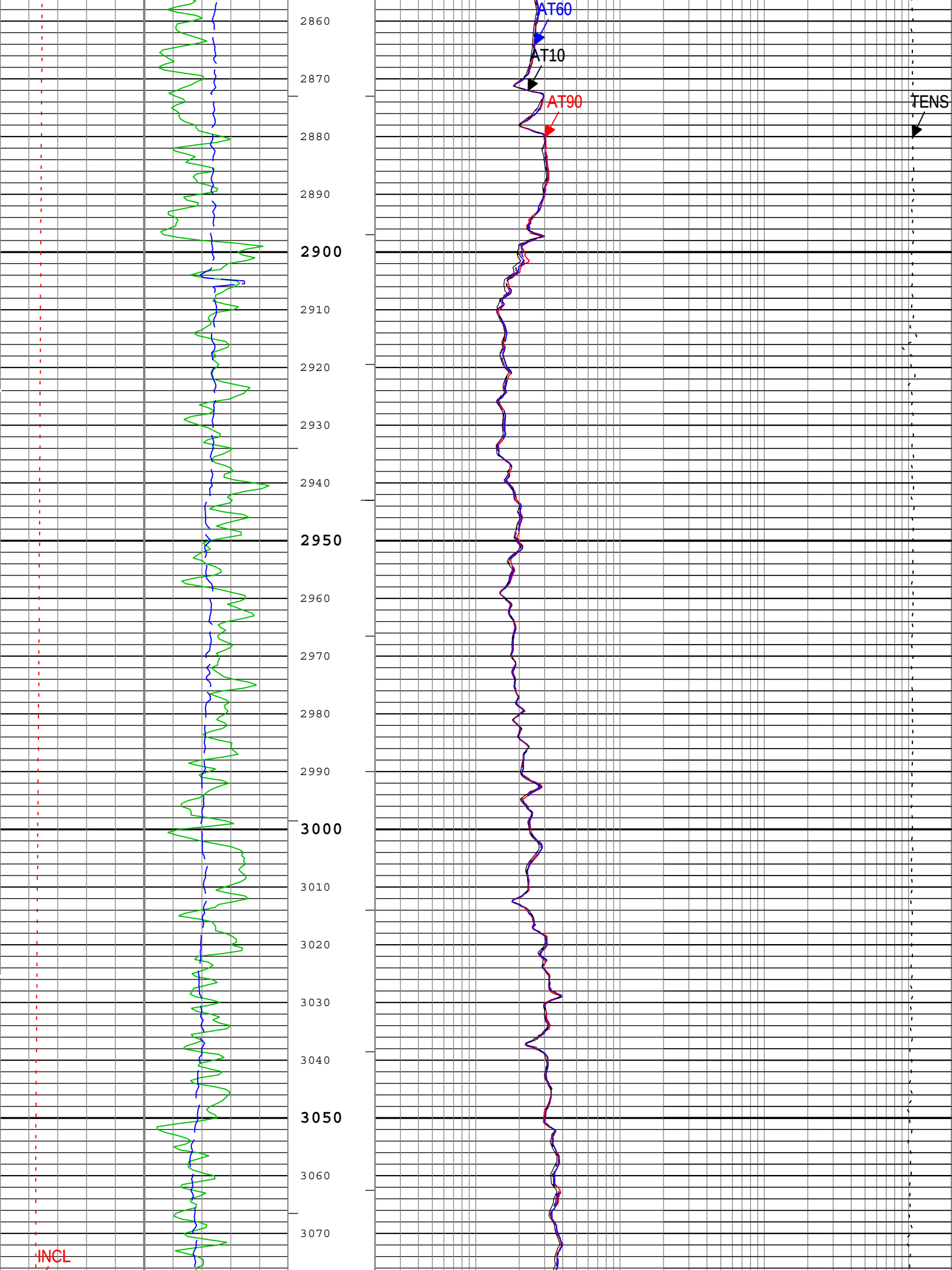
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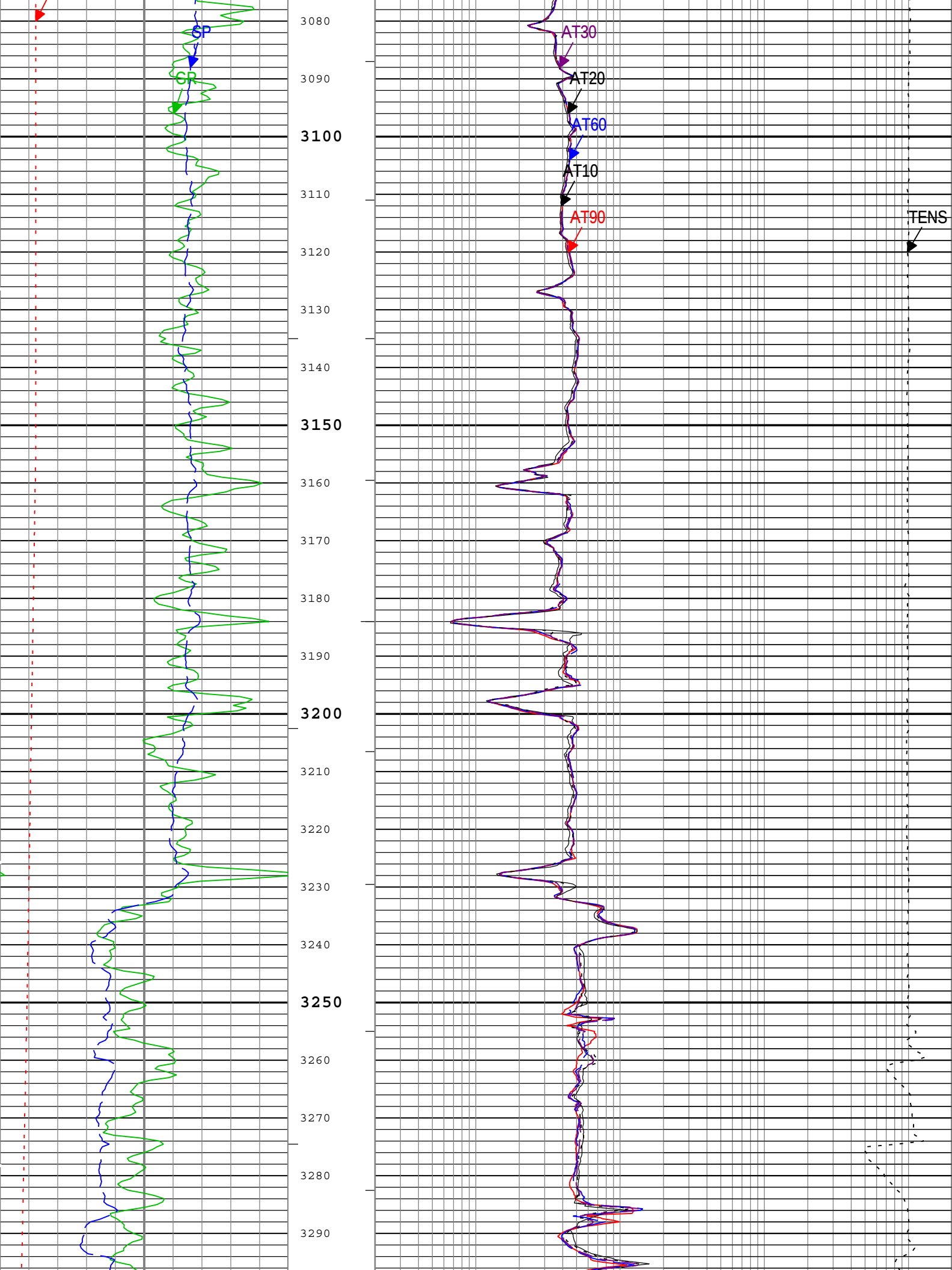
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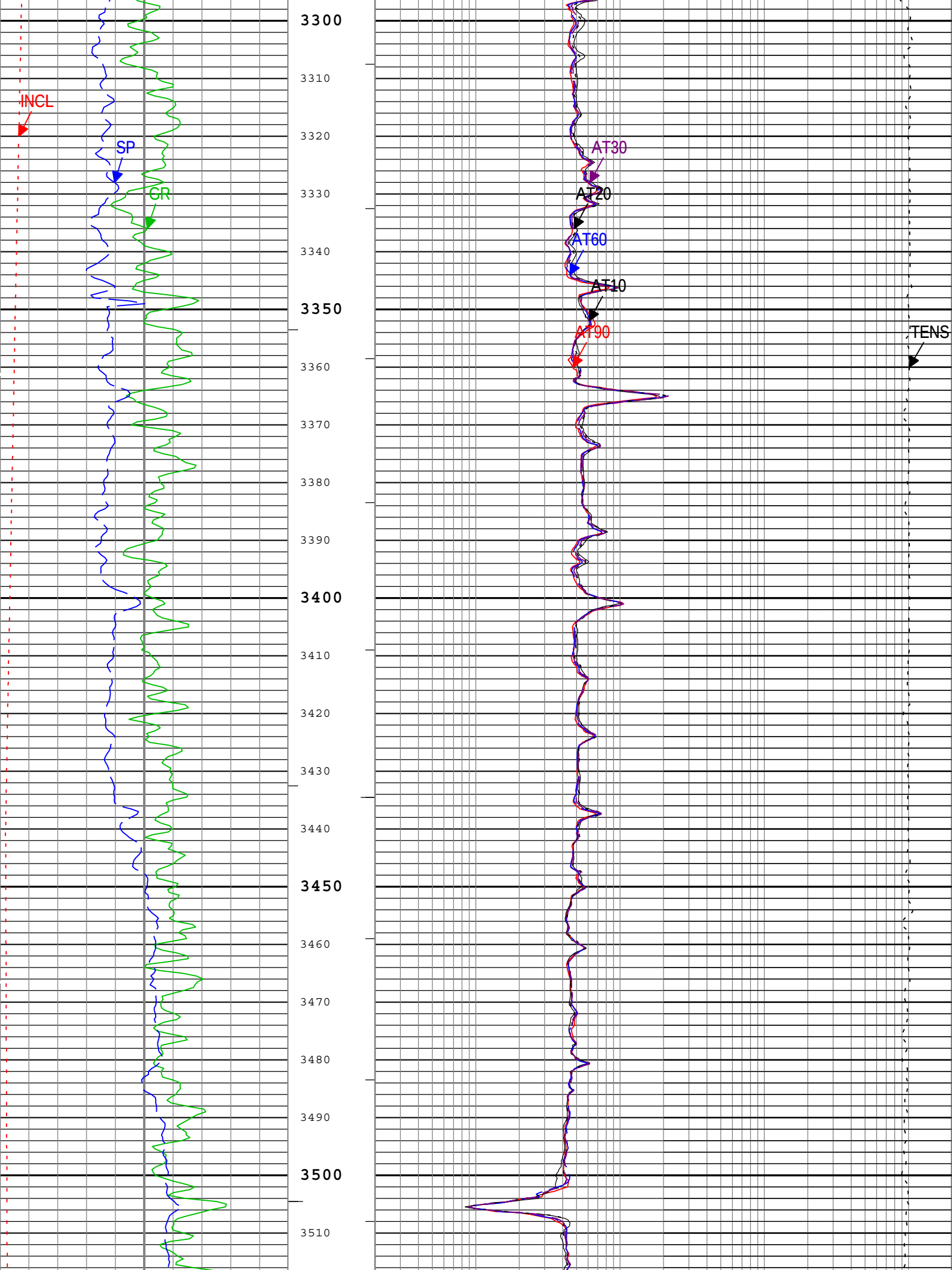
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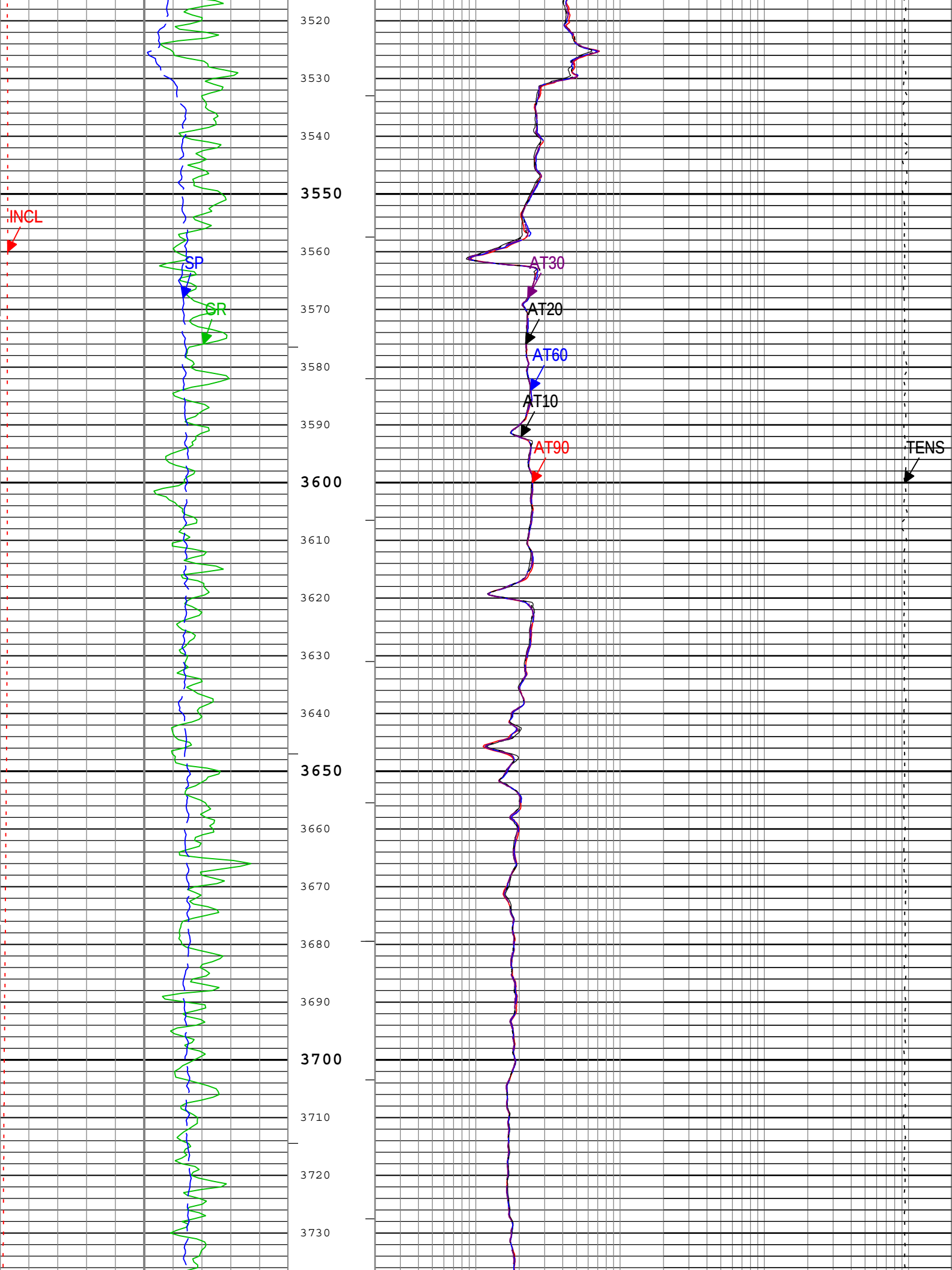
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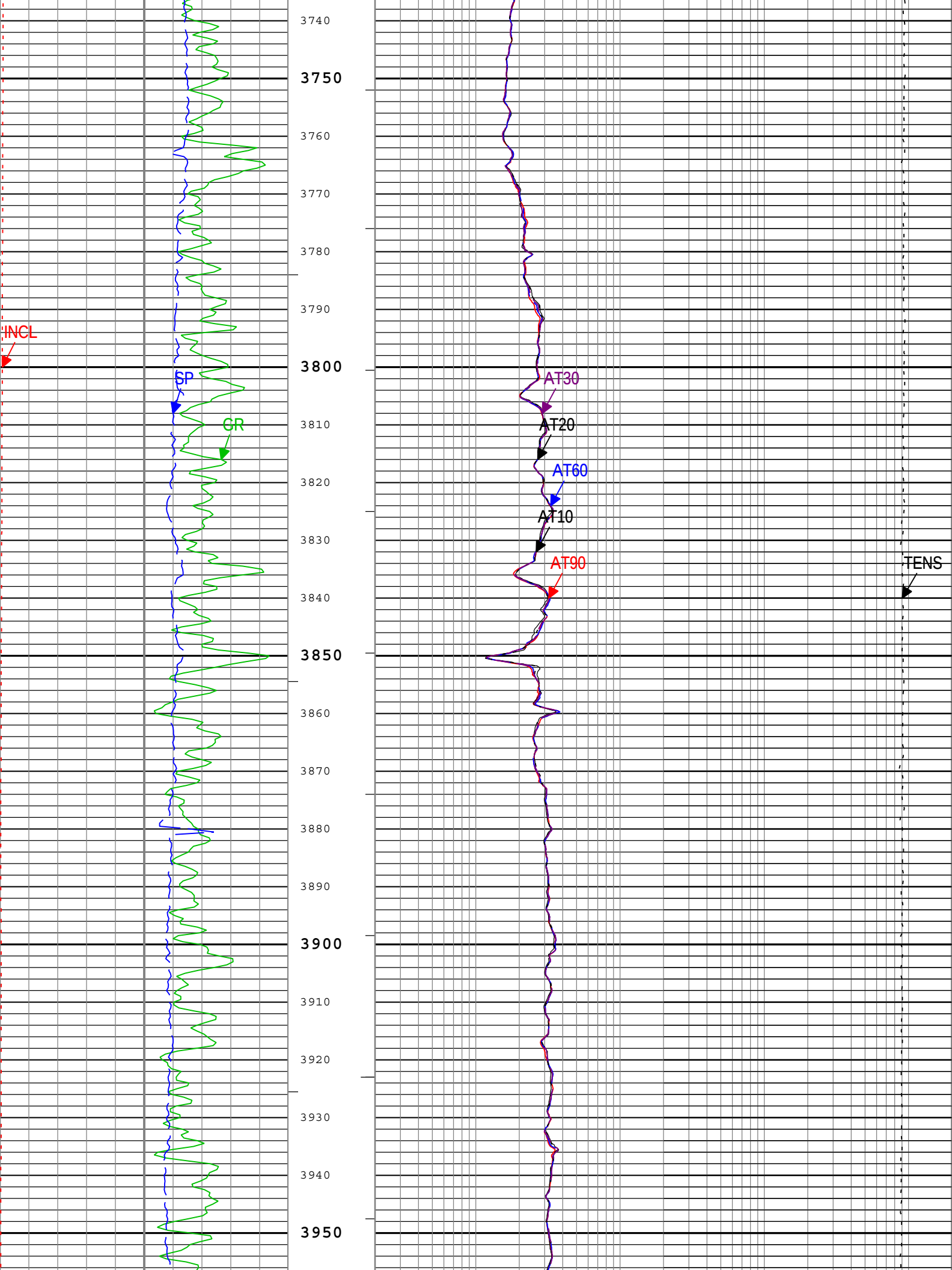
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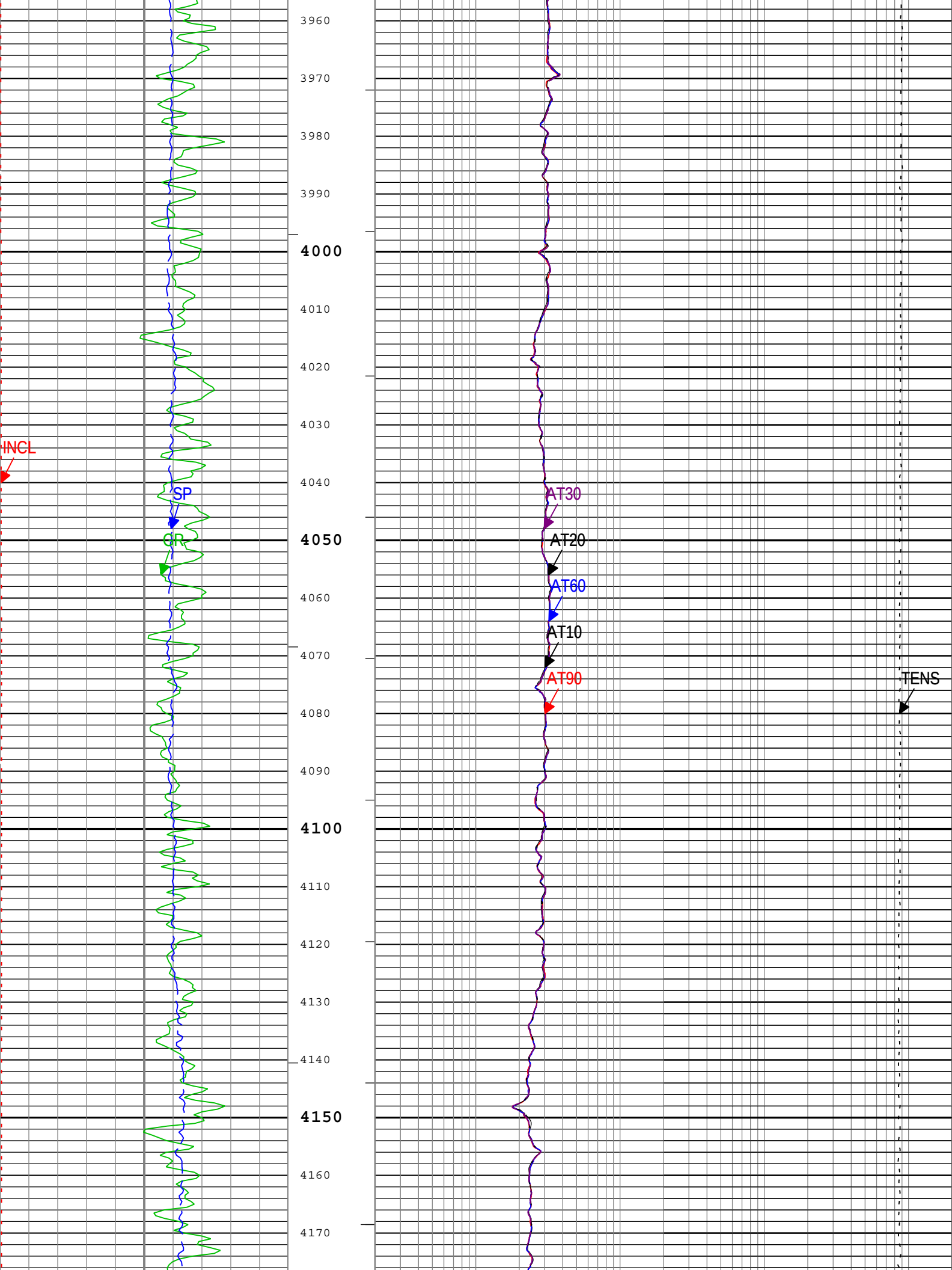
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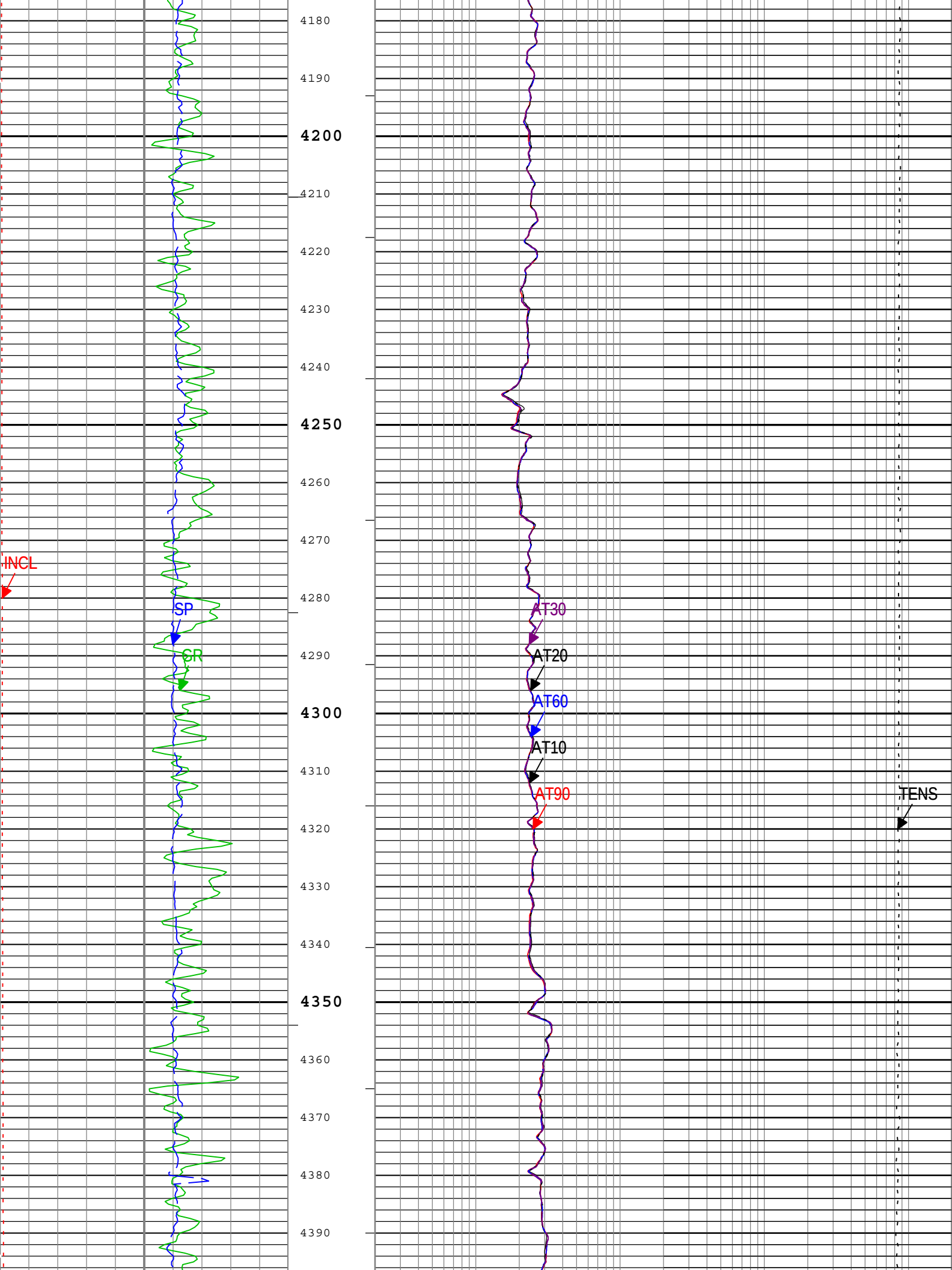
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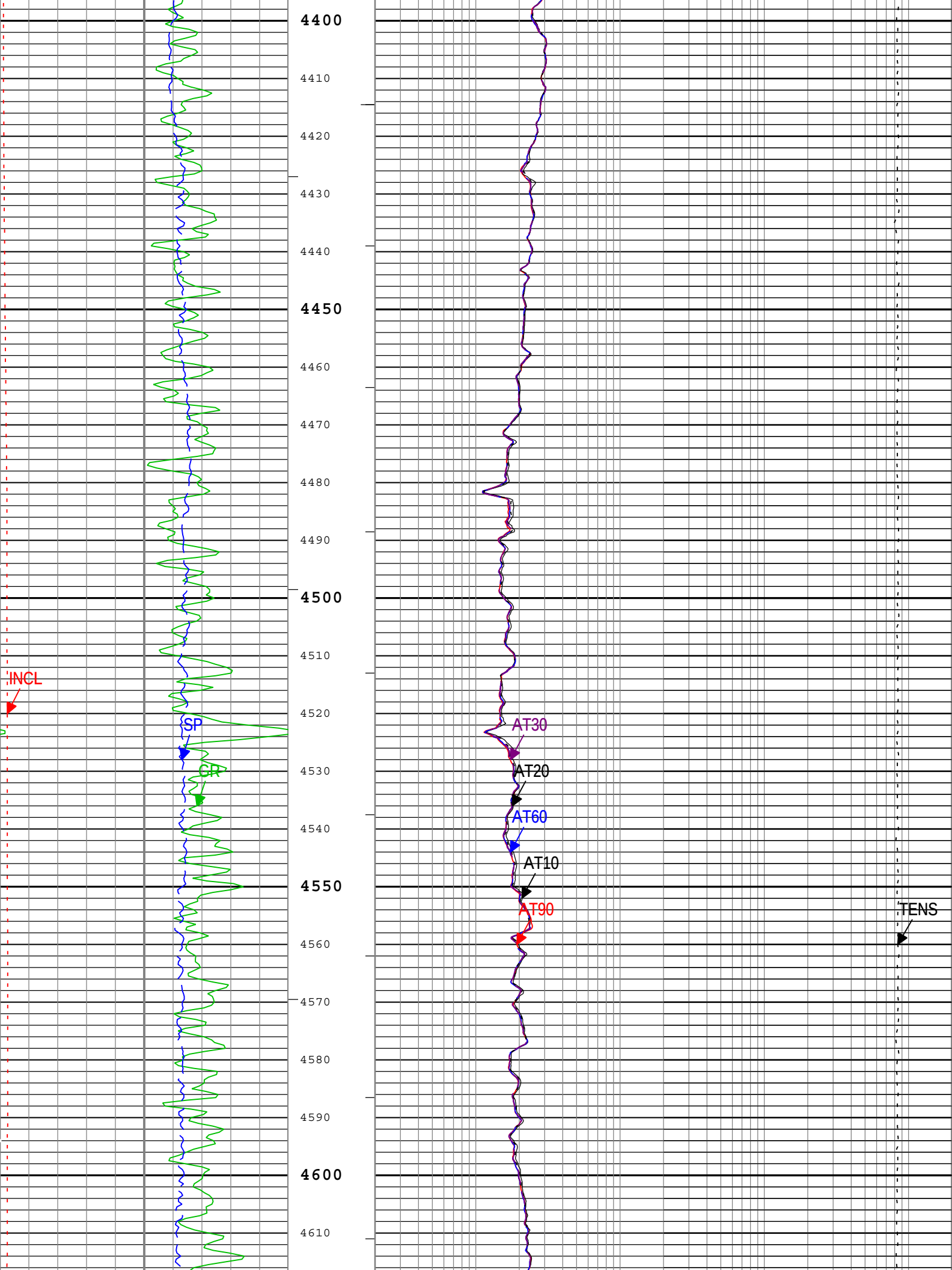
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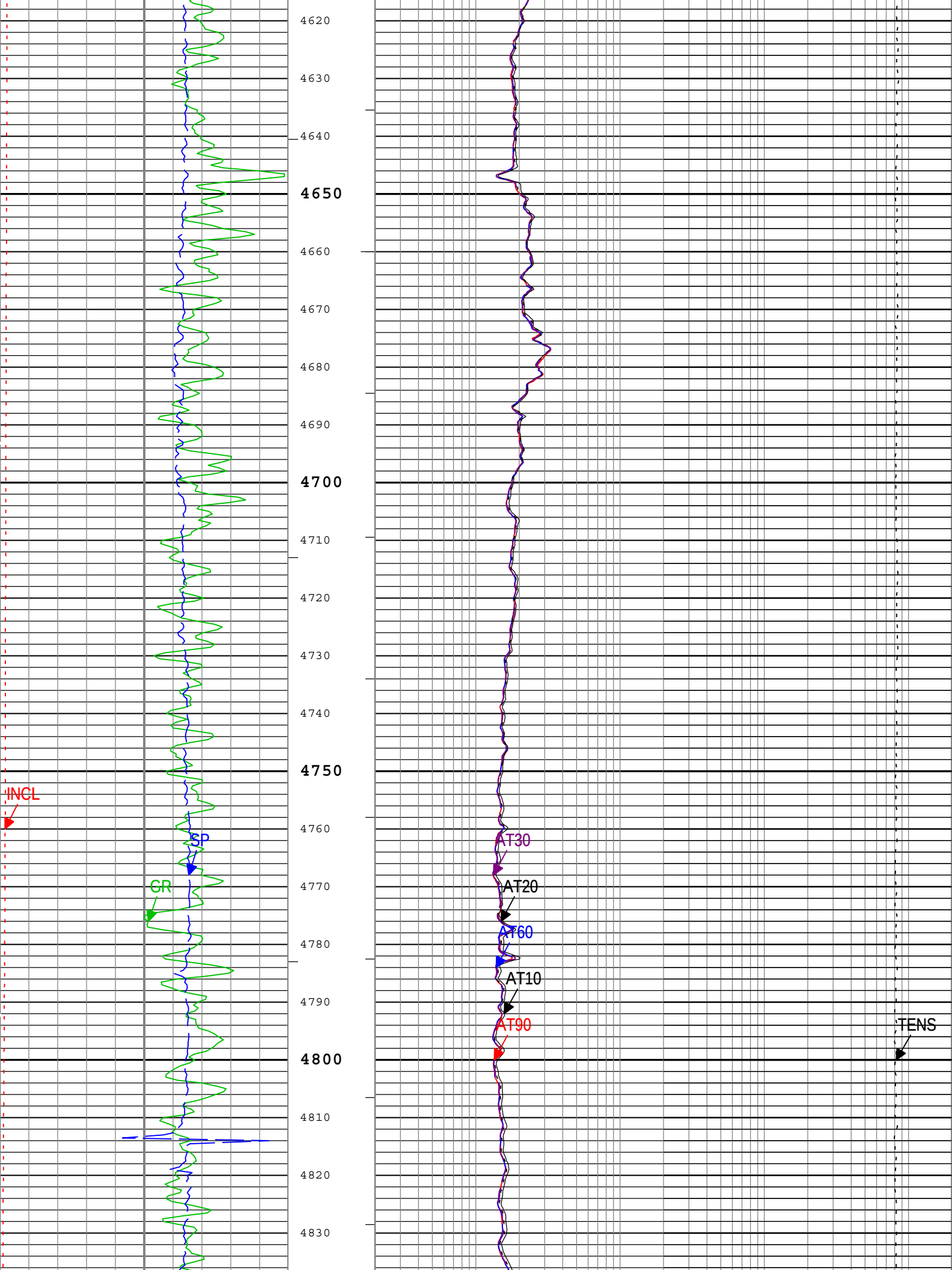
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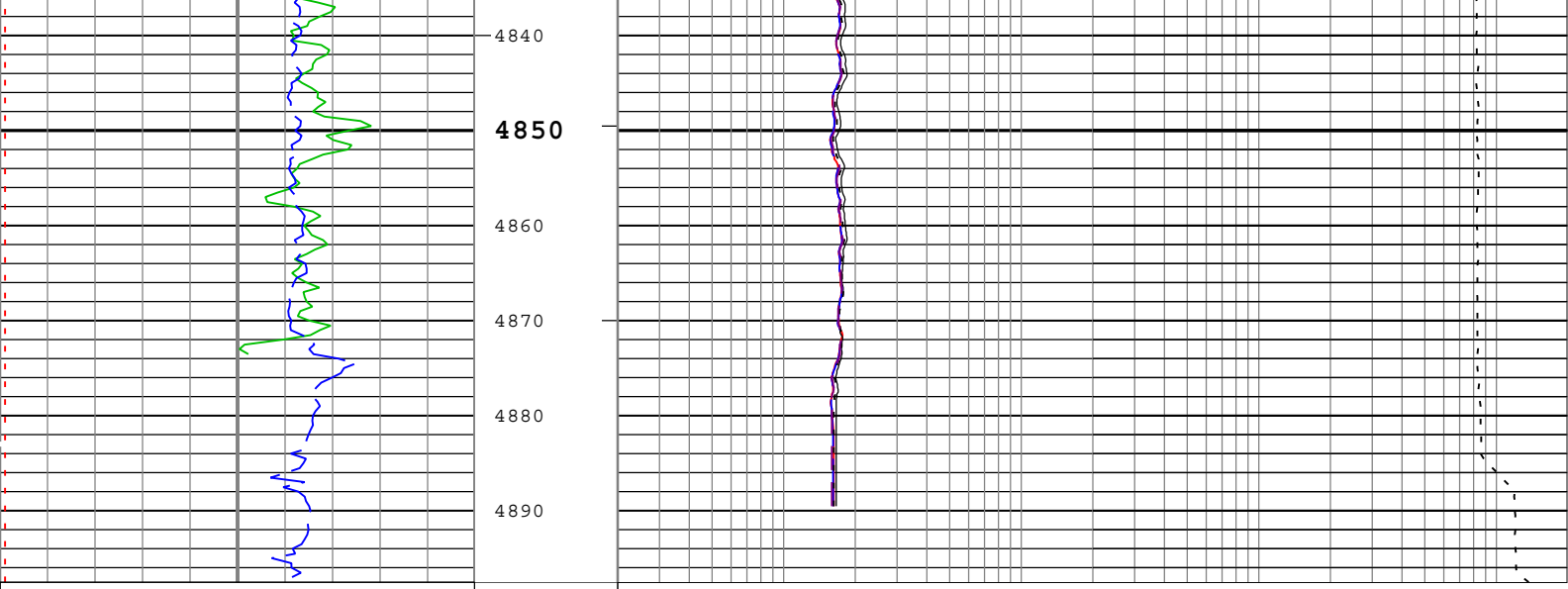


Gamma Ray (GR) EDTC-B
0 gAPI 150

Spontaneous Potential (SP) AIT-M
-80 mV 20

Hole inclination (INCL)
0 deg 50

Array Induction Two Foot Resistivity A90 (AT90) AIT-M
0.2 ohm.m 2000

Array Induction Two Foot Resistivity A10 (AT10) AIT-M
0.2 ohm.m 2000

Array Induction Two Foot Resistivity A60 (AT60) AIT-M
0.2 ohm.m 2000

Array Induction Two Foot Resistivity A20 (AT20) AIT-M
0.2 ohm.m 2000

Array Induction Two Foot Resistivity A30 (AT30) AIT-M
0.2 ohm.m 2000

Cable Tension (TENS)
10000 lbf 0

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)

Description: AIT Basic Log Two Format: Log (Import (2) of KM 5in Induction Upper) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 17-Oct-2014 12:30:17

Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ACDE	Array Induction Casing Detection Enable	AIT-M	Yes	
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.75	in
CBLO	Casing Bottom (Logger)	WLSESSION	1207.5	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	9.625	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.7	lbm/gal
ETIP	Elevation of the TIP above MSL	WLSESSION	4743	ft
FCD	Future Casing (Outer) Diameter	WLSESSION	7	in
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	

GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	HD1	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft

Tool Control Parameters

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

Run 1

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Repeat[6]:Up	Up	4430.92 ft	4898.08 ft	17-Oct-2014 11:29:35 AM	17-Oct-2014 11:36:08 AM	ON	4.77 ft	Yes
Run 1	Main[7]:Up	Up	199.95 ft	4897.44 ft	17-Oct-2014 11:37:18 AM	17-Oct-2014 12:26:15 PM	ON	0.00 ft	Yes

All depths are referenced to toolstring zero

Log

Company:Noble Energy Inc Well:Rohn State LD10 63 1HN

Run 1: Main[7]:Up:S008

Description: AIT Basic Log Two Format: Log (KM 5in Induction Upper RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth

Creation Date: 17-Oct-2014 12:30:19

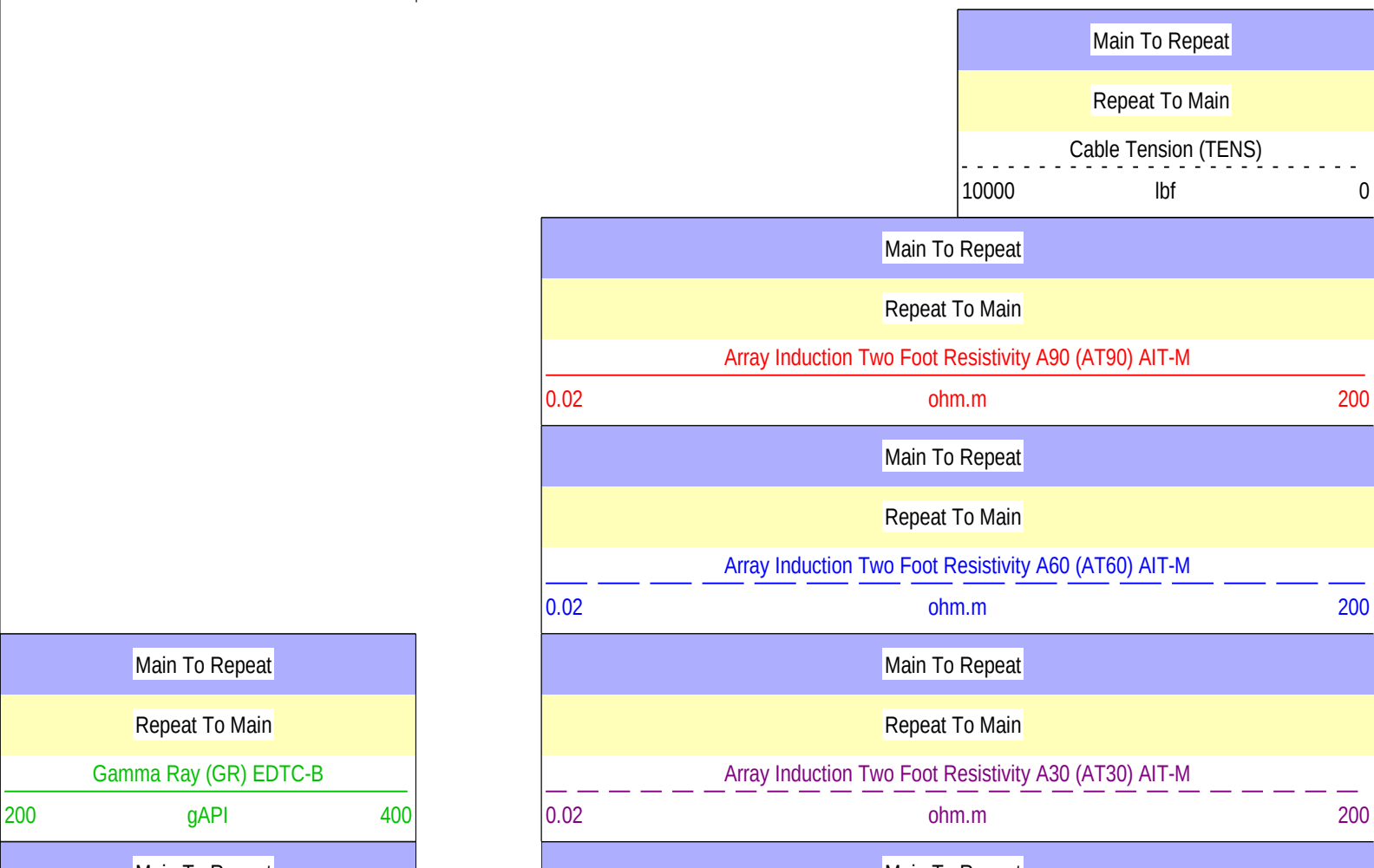
IHV - Integrated Hole Volume every 10.00 (ft3)

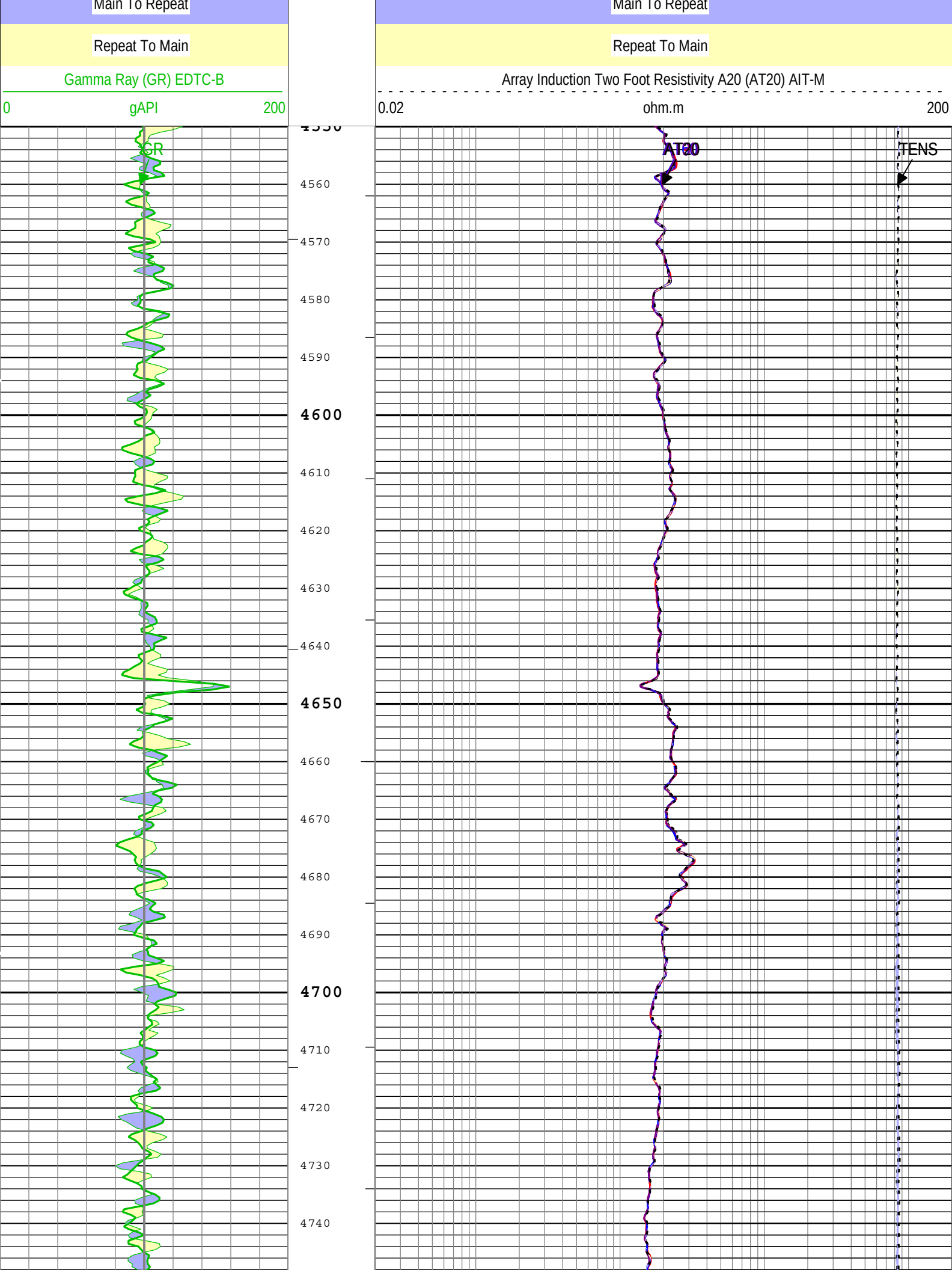
IHV - Integrated Hole Volume every 100.00 (ft3)

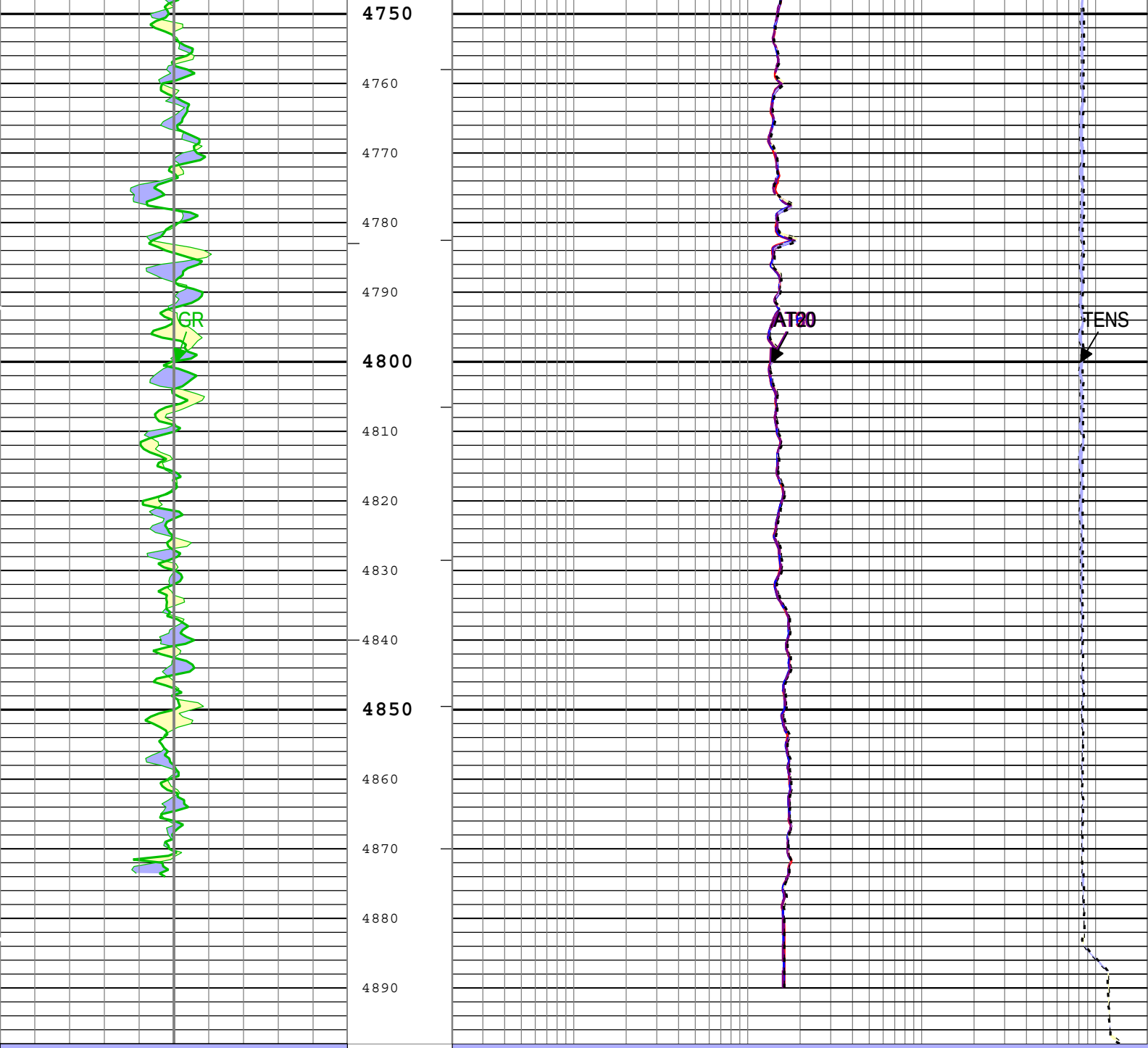
TIME_1900 - Time Marked every 60.00 (s)

ICV - Integrated Cement Volume every 10.00 (ft3)

ICV - Integrated Cement Volume every 100.00 (ft3)




Main To Repeat
Repeat To Main
Gamma Ray (GR) EDTC-B
0
gAPI
200
GR
Main To Repeat
Repeat To Main
Array Induction Two Foot Resistivity A20 (AT20) AIT-M
0.02
ohm.m
200
AT20
TENS
4560
4570
4580
4590
4600
4610
4620
4630
4640
4650
4660
4670
4680
4690
4700
4710
4720
4730
4740



Main To Repeat

Repeat To Main

Gamma Ray (GR) EDTC-B

200 gAPI 400

Main To Repeat

Repeat To Main

Gamma Ray (GR) EDTC-B

0 gAPI 200

Main To Repeat

Repeat To Main

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

0.02 ohm.m 200

Main To Repeat

Repeat To Main

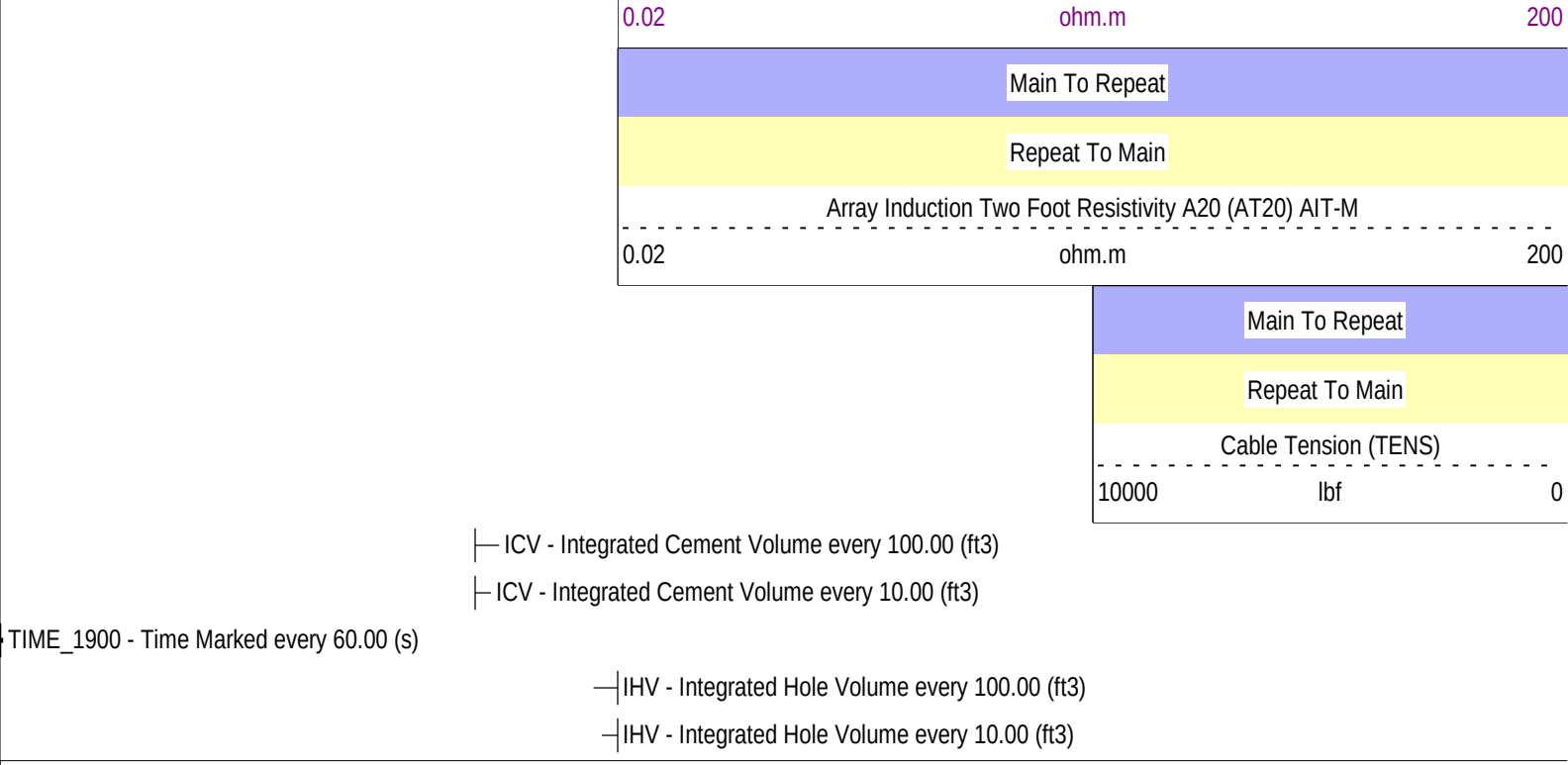
Array Induction Two Foot Resistivity A60 (AT60) AIT-M

0.02 ohm.m 200

Main To Repeat

Repeat To Main

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



Description: AIT Basic Log Two Format: Log (KM 5in Induction Upper RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 17-Oct-2014 12:30:19

Calibration Report

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

Primary Equipment :

File code for AIT-MA Sonde Tool Element	AMIS	50

Auxiliary Equipment :

AITM Rm/SP Bottom Nose	AMRM	50

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM): 12:18:07 04-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Test Loop Gain - 0		Master	1.000	0.950	1.014	1.050
Test Loop Phase - 0	deg	Master	0	-3.000	0.539	3.000
Test Loop Gain - 1		Master	1.000	0.950	1.014	1.050
Test Loop Phase - 1	deg	Master	0	-3.000	0.663	3.000
Test Loop Gain - 2		Master	1.000	0.950	1.022	1.050
Test Loop Phase - 2	deg	Master	0	-3.000	0.148	3.000
Test Loop Gain - 3		Master	1.000	0.950	1.014	1.050
Test Loop Phase - 3	deg	Master	0	-3.000	0.172	3.000
Test Loop Gain - 4		Master	1.000	0.950	0.996	1.050
Test Loop Phase - 4	deg	Master	0	-3.000	0.160	3.000
Test Loop Gain - 5		Master	1.000	0.950	0.987	1.050
Test Loop Phase - 5	deg	Master	0	-3.000	-0.133	3.000
Test Loop Gain - 6		Master	1.000	0.950	0.998	1.050
Test Loop Phase - 6	deg	Master	0	-3.000	0.192	3.000
Test Loop Gain - 7		Master	1.000	0.950	1.007	1.050
Test Loop Phase - 7	deg	Master	0	-3.000	-0.097	3.000

AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM): 12:18:07 04-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-109.513	119.000
Sonde Error Correction Quad - 0		Master	-----	-2250.000	-462.503	2250.000
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	159.810	204.000
Sonde Error Correction Quad - 1		Master	-----	-625.000	-127.134	625.000
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	114.073	156.000
Sonde Error Correction Quad - 2		Master	-----	-350.000	102.792	350.000
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	68.619	89.000
Sonde Error Correction Quad - 3		Master	-----	-250.000	-156.455	250.000

Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	24.694	35.000
Sonde Error Correction Quad - 4		Master	-----	-63.000	3.677	63.000
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	15.085	24.000
Sonde Error Correction Quad - 5		Master	-----	-50.000	-26.597	50.000
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	10.310	15.000
Sonde Error Correction Quad - 6		Master	-----	-30.000	-5.646	30.000
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-1.623	5.000
Sonde Error Correction Quad - 7		Master	-----	-30.000	-4.661	30.000

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM): 12:18:07 04-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Coarse Gain		Master	1.000	0.800	0.831	1.200
Fine Gain		Master	1.000	0.800	0.833	1.200

AIT Electronics Check - Thru Calibration Check

Master (EEPROM): 12:18:07 04-Sep-2014 Before (Measured): 10:03:32 16-Oct-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Thru Cal Mag - 0	V	Master	-----	0.366	0.603	0.854
		Before	-----	0.366	0.603	0.854
		Before-Master	-----	-----	0.000	-----
Thru Cal Phase - 0	deg	Master	-----	137.000	-165.073	-103.000
		Before	-----	137.000	-164.268	-103.000
		Before-Master	-----	-----	0.805	-----
Thru Cal Mag - 1	V	Master	-----	0.762	1.237	1.778
		Before	-----	0.762	1.236	1.778
		Before-Master	-----	-----	-0.001	-----
Thru Cal Phase - 1	deg	Master	-----	136.000	-166.020	-104.000
		Before	-----	136.000	-165.213	-104.000
		Before-Master	-----	-----	0.807	-----
Thru Cal Mag - 2	V	Master	-----	0.372	0.613	0.868
		Before	-----	0.372	0.613	0.868
		Before-Master	-----	-----	0.000	-----
Thru Cal Phase - 2	deg	Master	-----	132.000	-169.506	-108.000
		Before	-----	132.000	-168.701	-108.000
		Before-Master	-----	-----	0.805	-----
Thru Cal Mag - 3	V	Master	-----	0.420	0.691	0.980
		Before	-----	0.420	0.691	0.980
		Before-Master	-----	-----	0.000	-----
Thru Cal Phase - 3	deg	Master	-----	131.000	-170.241	-109.000
		Before	-----	131.000	-169.435	-109.000
		Before-Master	-----	-----	0.806	-----
Thru Cal Mag - 4	V	Master	-----	0.804	1.297	1.876
		Before	-----	0.804	1.296	1.876
		Before-Master	-----	-----	-0.001	-----
Thru Cal Phase - 4	deg	Master	-----	125.000	-176.203	-115.000
		Before	-----	125.000	-175.393	-115.000
		Before-Master	-----	-----	0.810	-----
Thru Cal Mag - 5	V	Master	-----	1.176	1.887	2.744
		Before	-----	1.176	1.886	2.744
		Before-Master	-----	-----	-0.001	-----
Thru Cal Phase - 5	deg	Master	-----	122.000	-177.732	-118.000
		Before	-----	122.000	-176.917	-118.000
		Before-Master	-----	-----	0.815	-----
Thru Cal Mag - 6	V	Master	-----	1.176	1.886	2.744
		Before	-----	1.176	1.885	2.744
		Before-Master	-----	-----	-0.001	-----
Thru Cal Phase - 6	deg	Master	-----	121.000	-177.711	-119.000
		Before	-----	121.000	-176.895	-119.000
		Before-Master	-----	-----	0.816	-----
Thru Cal Mag - 7	V	Master	-----	0.846	1.357	1.974
		Before	-----	0.846	1.357	1.974
		Before-Master	-----	-----	0.000	-----
Thru Cal Phase - 7	deg	Master	-----	115.000	-178.471	-125.000
		Before	-----	115.000	-177.630	-125.000
		Before-Master	-----	-----	0.841	-----
SPA Zero	mV	Master		-50.000	0.156	50.000

		Before		-50.000	0.125	50.000	
		Before-Master	-----	-----	-0.031	-----	
SPA Plus	mV	Master		941.000	987.998	1040.000	
		Before		941.000	987.907	1040.000	
		Before-Master	-----	-----	-0.091	-----	
Temperature Zero	V	Master		-0.050	0.000	0.050	
		Before		-0.050	0.000	0.050	
		Before-Master	-----	-----	0.000	-----	
Temperature Plus	V	Master		0.870	0.915	0.960	
		Before		0.870	0.915	0.960	
		Before-Master	-----	-----	0.000	-----	

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

Primary Equipment :

EDTC-B EDTC-B

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	
AZ Vertical Measurement - 0	ft/s2	Before	-----	-----	-----	-----	

EDTC-B Gamma-Ray Calibration - Gamma Ray Coefficients

Before (Measured): 10:05:38 16-Oct-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Gain		Before	1.000	0.900	1.021	1.100	

EDTC-B Gamma-Ray Calibration - Gamma Ray Accumulations

Before (Measured): 10:05:38 16-Oct-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before		0	69.882	120.000	
RGR Plus Measurement	gAPI	Before	165.000	150.000	161.572	180.000	

Platform Express
Array Induction
with Linear Correlation