

Company: Bayswater Exploration and Production LLC

Well: Swan 21-44

Field: Swan

County: Washington State: Colorado

Platform Express

Triple Combo

County:		Washington	
Field:		Swan	
Location:		SHL: 1314' FSL & 1320' FEL	
Well:		Swan 21-44	
Company:		Bayswater Exploration and Production LLC	
Triple Combo			
Location:			
SHL: 1314' FSL & 1320' FEL SWSE Sec. 21, Twp. 2S, Rng. 56W		Elev.: K.B. 5336.00 ft G.L. 5325.00 ft D.F. 5335.00 ft	
Permanent Datum:		Ground Level	
Log Measured From:		Kelly Bushing	
Drilling Measured From:		Kelly Bushing	
API Serial No.		Section: 21	
05-121-11027-0000		Township: 2S	
		Range: 56W	

Run Number	1		
Depth Driller	5325.00 ft		
Schlumberger Depth	5326.00 ft		
Bottom Log Interval	5320.00 ft		
Top Log Interval	4180.00 ft		
Casing Driller Size @ Depth	8.5 in @ 215.00 ft		
Casing Schlumberger	215 ft		
Bit Size	7.875 in		
Type Fluid In Hole	Water		
Density	9.3 lbm/gal	43 s	
Fluid Loss	9.3 cm3	9.5	
Source of Sample	Active Tank		
RM @ Meas Temp	0.54 ohm.m @ 72 degF		
RMF @ Meas Temp	0.41 ohm.m @ 72 degF		
RMC @ Meas Temp	0.81 ohm.m @ 72 degF		
Source RMF	Calculated	Calculated	
RM @ BHT	0.27 @ 150 0.21 @ 150		
Max Recorded Temperatures	150 degF		
Circulation Stopped	01-Dec-2013 14:45:00		
Logger on Bottom	01-Dec-2013 22:30:58		
Unit Number	3022	Fort Morgan	
Recorded By	Danill Kholin		
Witnessed By	Jeff Schneider		

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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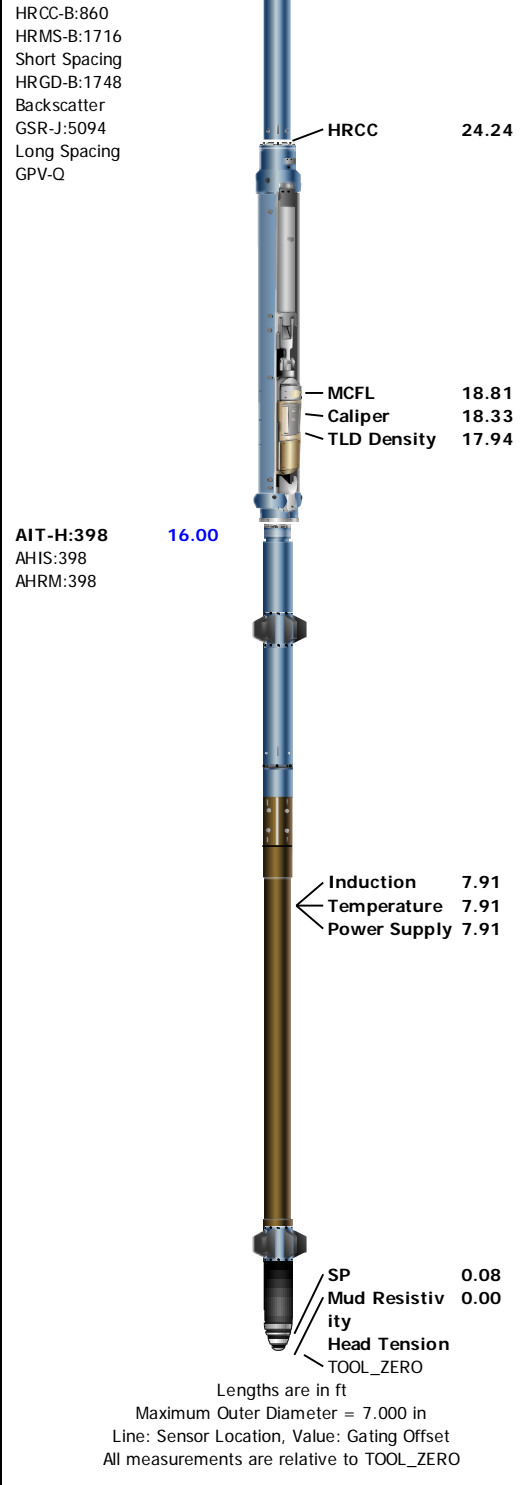
Well Sketch

Driller Depth

0.00 ft

215.00 ft

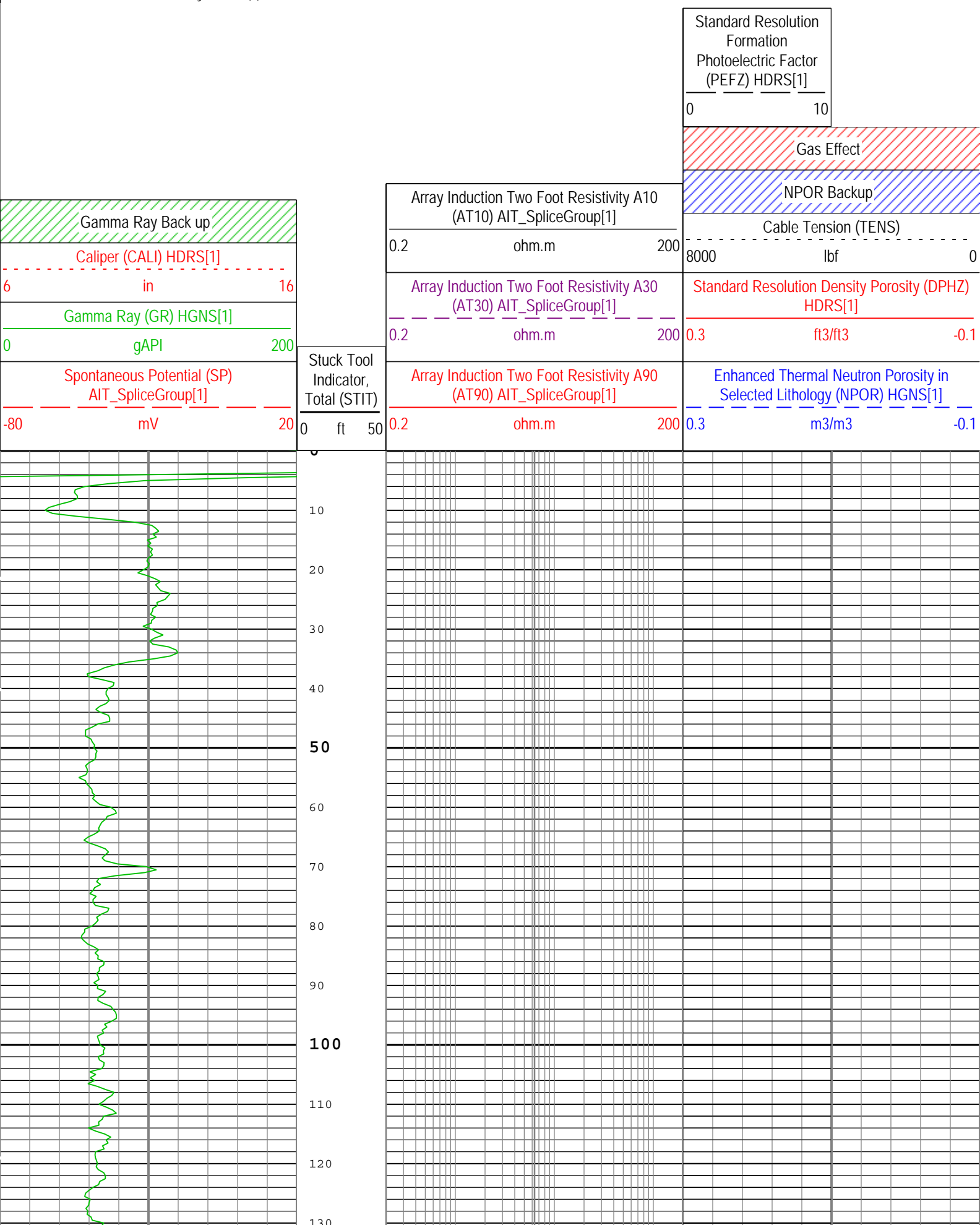
Casing 8.5in
24lbm/ft

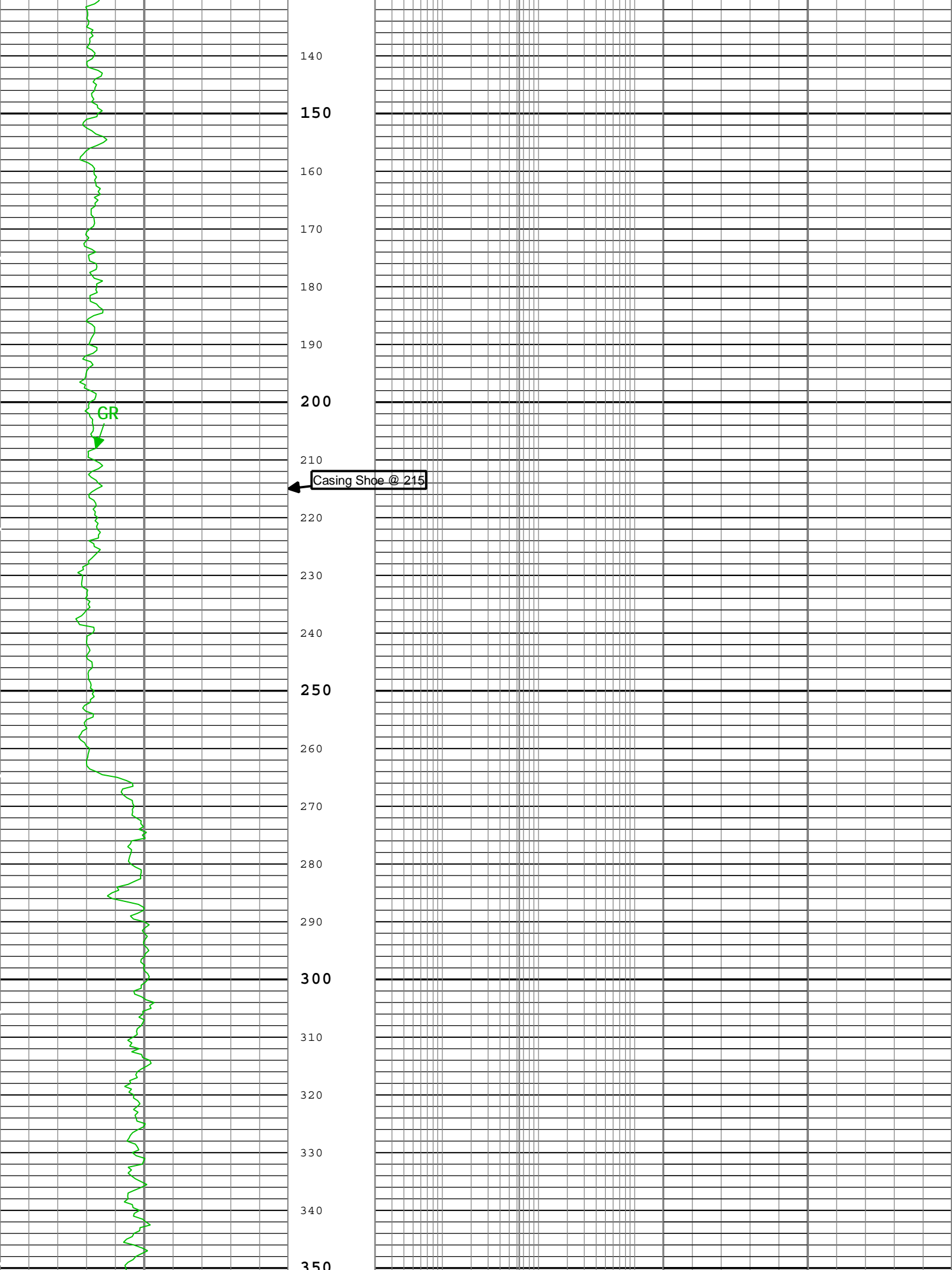


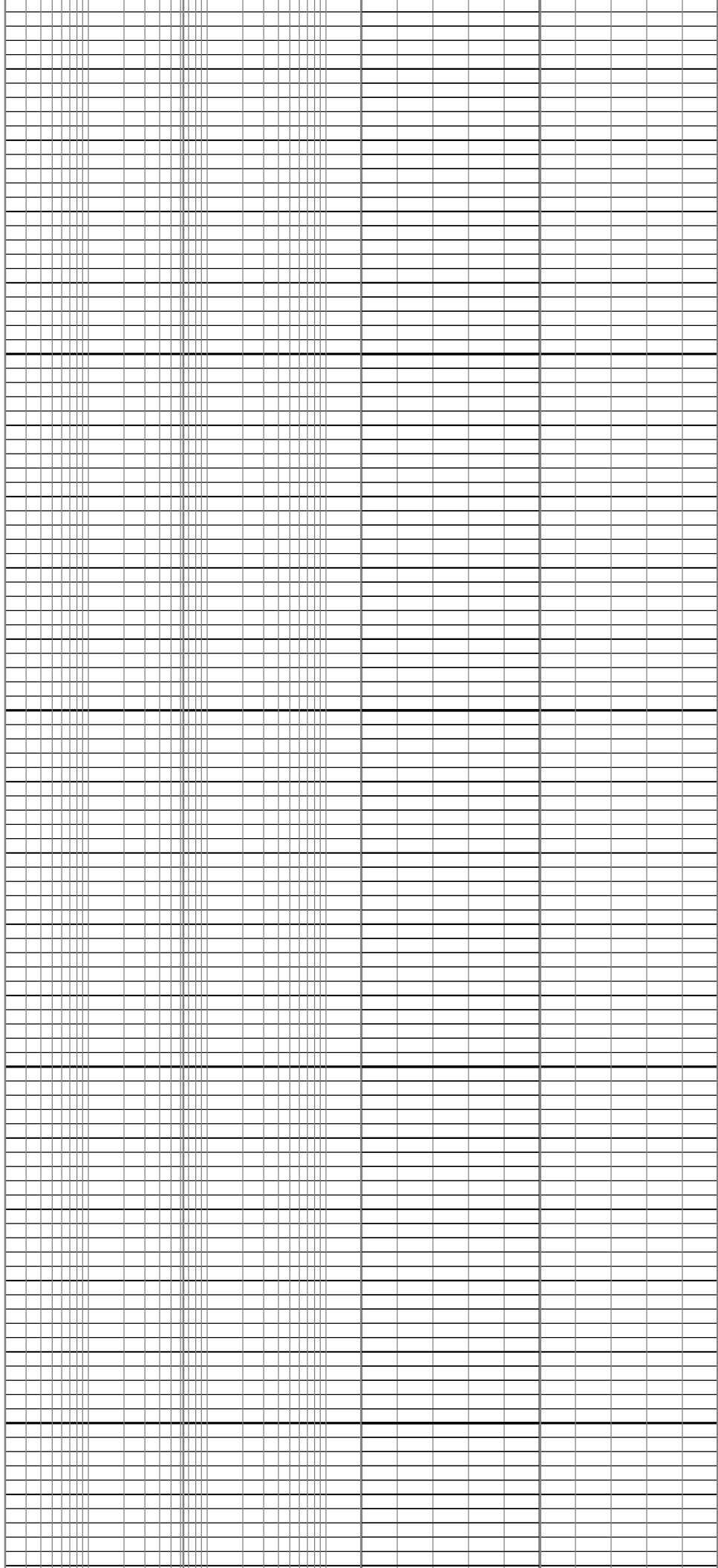
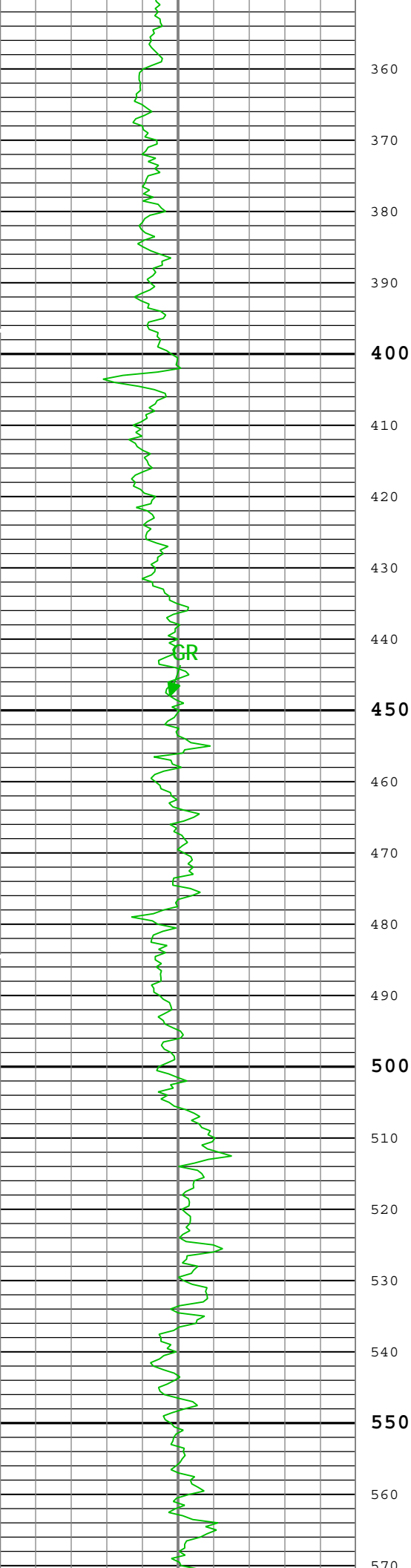
Depth Summary			
	1		
Depth Measuring Device			
Type	IDW-JA		
Serial Number	7249		
Calibration Date	12-Jun-2013		
Calibrator Serial Number			
Calibration Cable Type	7-39 PLXS		
Wheel Correction 1	-4		
Wheel Correction 2	-4		
Tension Device			
Type	CMTD-B/A		
Serial Number	1109		
Calibration Date	25-Nov-2013		
Calibrator Serial Number	78135A		
Number of Calibration Points	10		

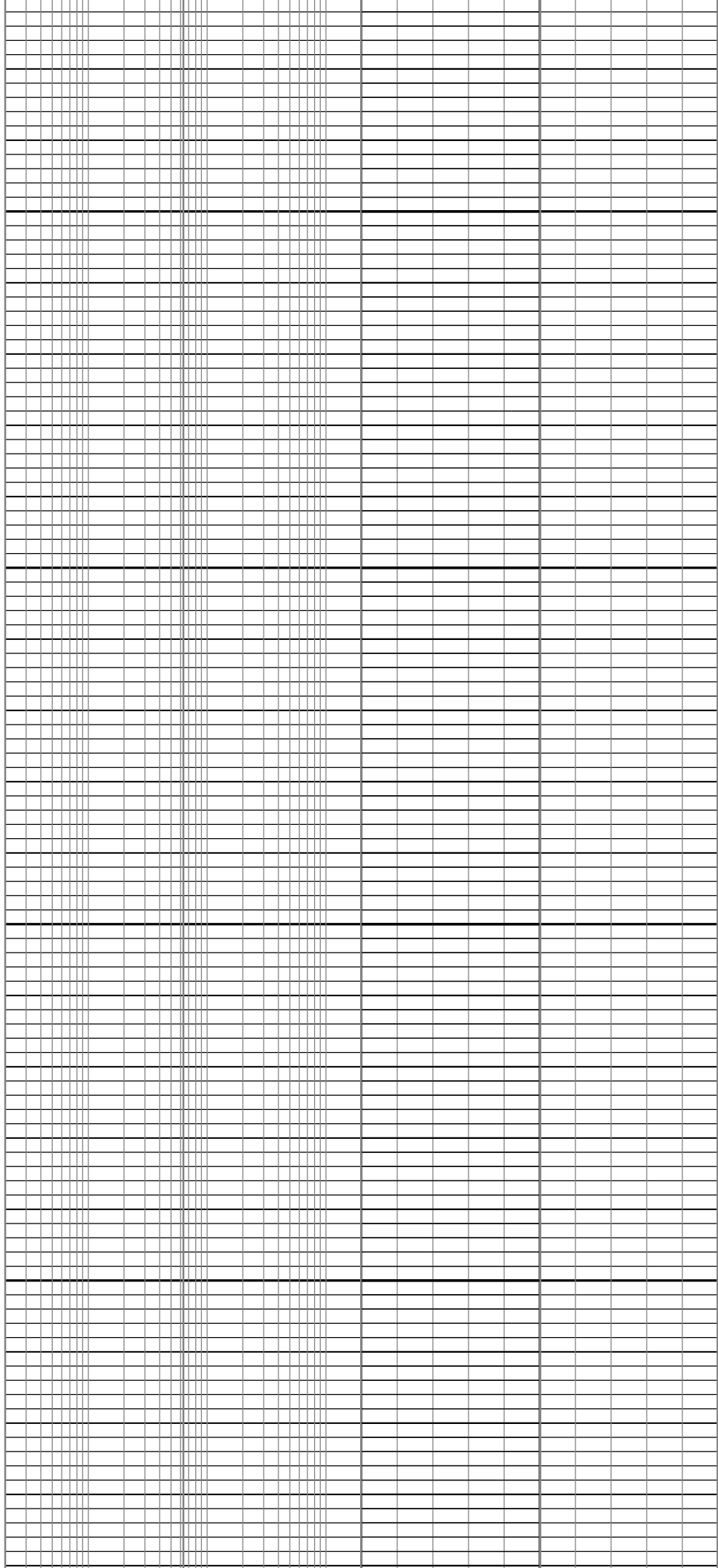
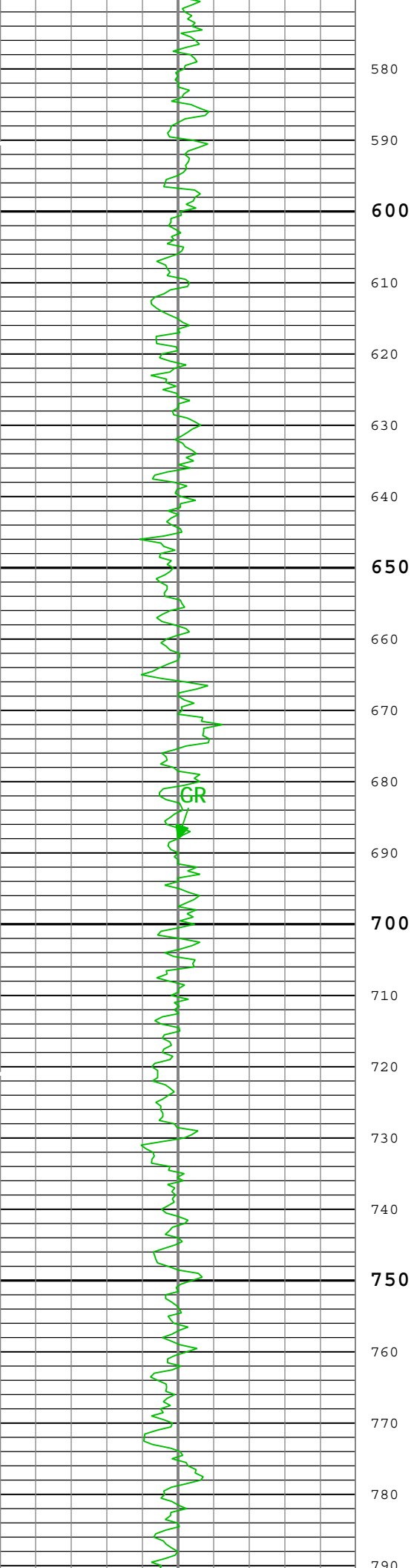
Calibration Root Mean Square Error		22							
Calibration Peak Error		37							
Logging Cable									
Type		7-39P-LXS							
Serial Number		U711136							
Length		18000.00 ft							
Conveyance Type		Wireline							
Rig Type		Land							
1:Depth Control Parameters				Depth Control Remarks					
Log Sequence		First Log In the Well		All Depth Control Procedures followed					
Rig Up Length At Surface				IDW used as Primary Depth Control					
Rig Up Length At Bottom				Z-chart used as Secondary Depth Control					
Rig Up Length Correction									
Stretch Correction		2.86 ft							
Tool Zero Check At Surface									
Composite 1									
5" Triple Combo									
Software Version									
Acquisition System						Version			
MaxWell						4.0.9126.3000			
Computation		Description				Version			
HENVIR		Computation Ensemble for the HGNS Neutron environmental corrections				4.0.9033.3000			
DepthCorrection		DepthCorrection				4.0.9125.3000			
Tool Elements		Description			Software Version		Firmware Version		
HRGD-B		HILT Resistivity Gamma-Ray Density Device, 125 degC			4.0.9033.3000				
AHIS		Array Induction Sonde - H			4.0.9125.3000				
HGNS-B		HILT Gamma-Ray and Neutron Sonde, 125 degC			4.0.9033.3000				
HRCC-B		HILT High-Resolution Control Cartridge, 125 degC			4.0.9033.3000				
Composite Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1	Main[3]:Up	Up	3542.56 ft	5343.26 ft	01-Dec-2013 10:47:05 PM	01-Dec-2013 11:15:39 PM	ON	11.98 ft	No
1	Main[4]:Up	Up	15.17 ft	4012.26 ft	01-Dec-2013 11:18:32 PM	01-Dec-2013 11:57:13 PM	ON	11.98 ft	No
All depths are referenced to toolstring zero									
Log	Company:Bayswater Exploration and Production LLC						Well:Swan 21-44		
Composite 1:S005									
Description: HGNS standard resolution porosities for Platform Express Format: Log (KM 5in Triple Combo) Index Scale: 5 in per 100 ft Index Unit: ft									
Index Type: Measured Depth Creation Date: 02-Dec-2013 12:49:34									
Channel	Source			Sampling					
AT10	AIT_SpliceGroup[1]:AHIS[1]:AHIS[1]			3in					
AT30	AIT_SpliceGroup[1]:AHIS[1]:AHIS[1]			3in					
AT90	AIT_SpliceGroup[1]:AHIS[1]:AHIS[1]			3in					
CALI	HDRS[1]:HRCC-B[1]:HRCC-B[1]			1in					
DPHZ	HDRS[1]:HRMS-B[1]:HRGD-B[1]			2in					
GR	HGNS[1]:HGNS-B[1]:HGNS-B[1]			6in					
NPOR	HGNS[1]:HGNS-B[1]:HGNS-B[1]			6in					
PEFZ	HDRS[1]:HRMS-B[1]:HRGD-B[1]			2in					
SP	AIT_SpliceGroup[1]:AHIS[1]:AHIS[1]			6in					
STIT	DepthCorrection			6in					

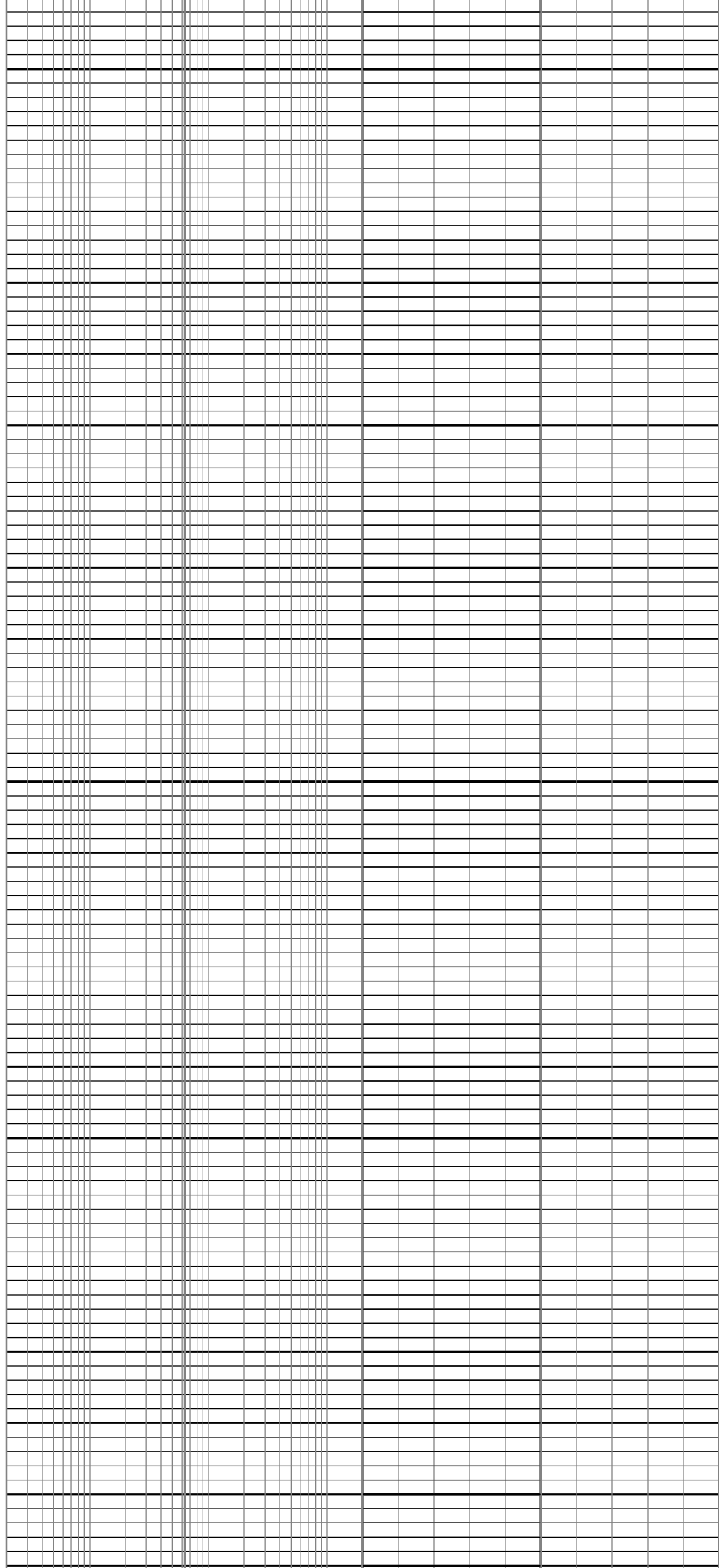
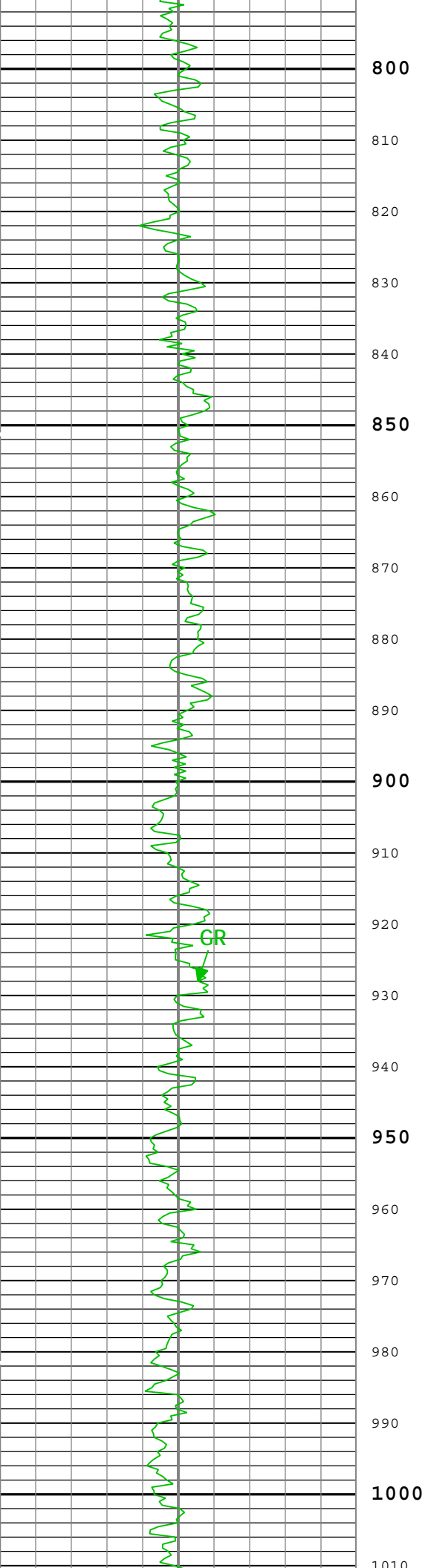
TIME_1900 - Time Marked every 60.00 (s)

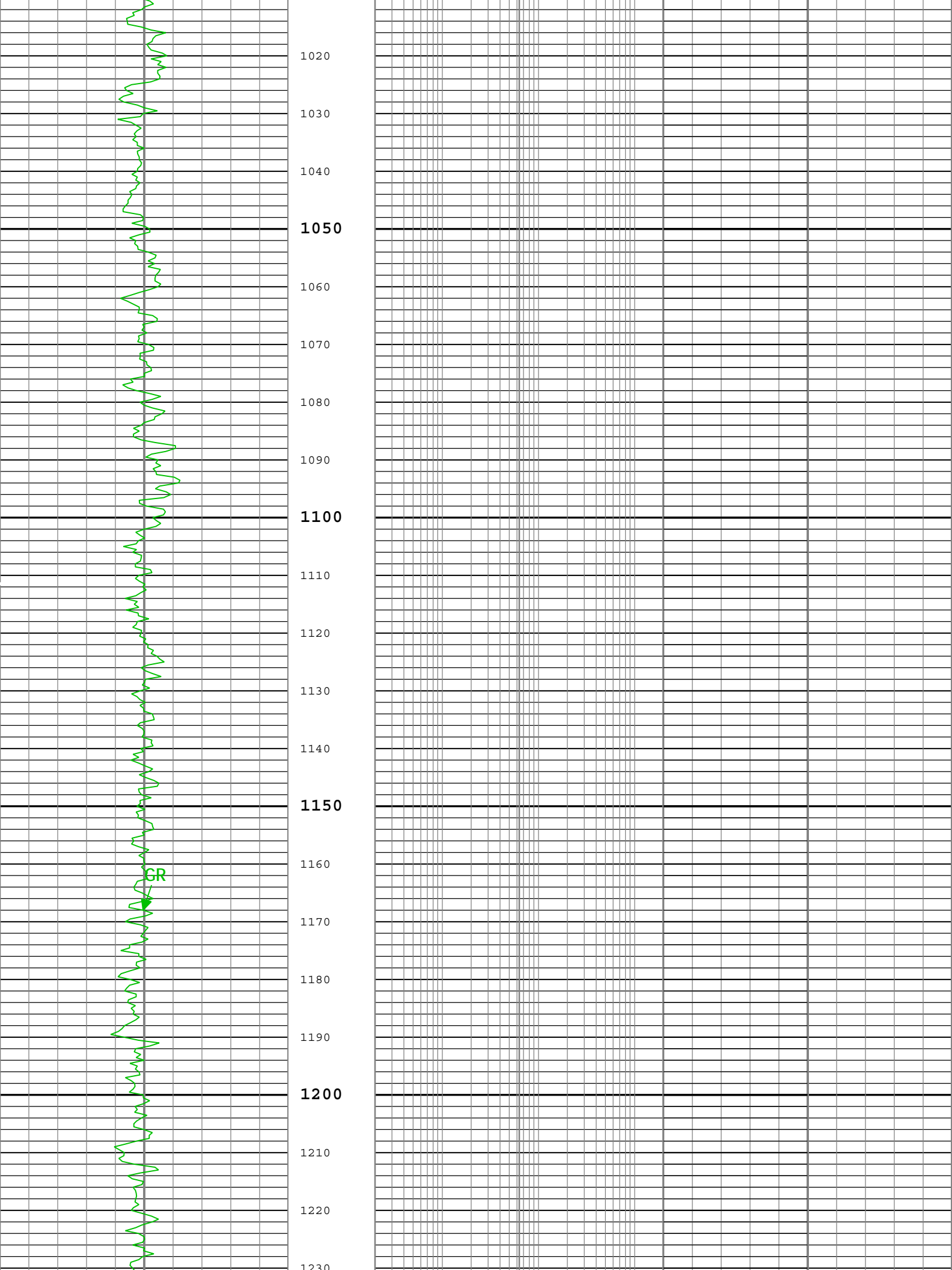


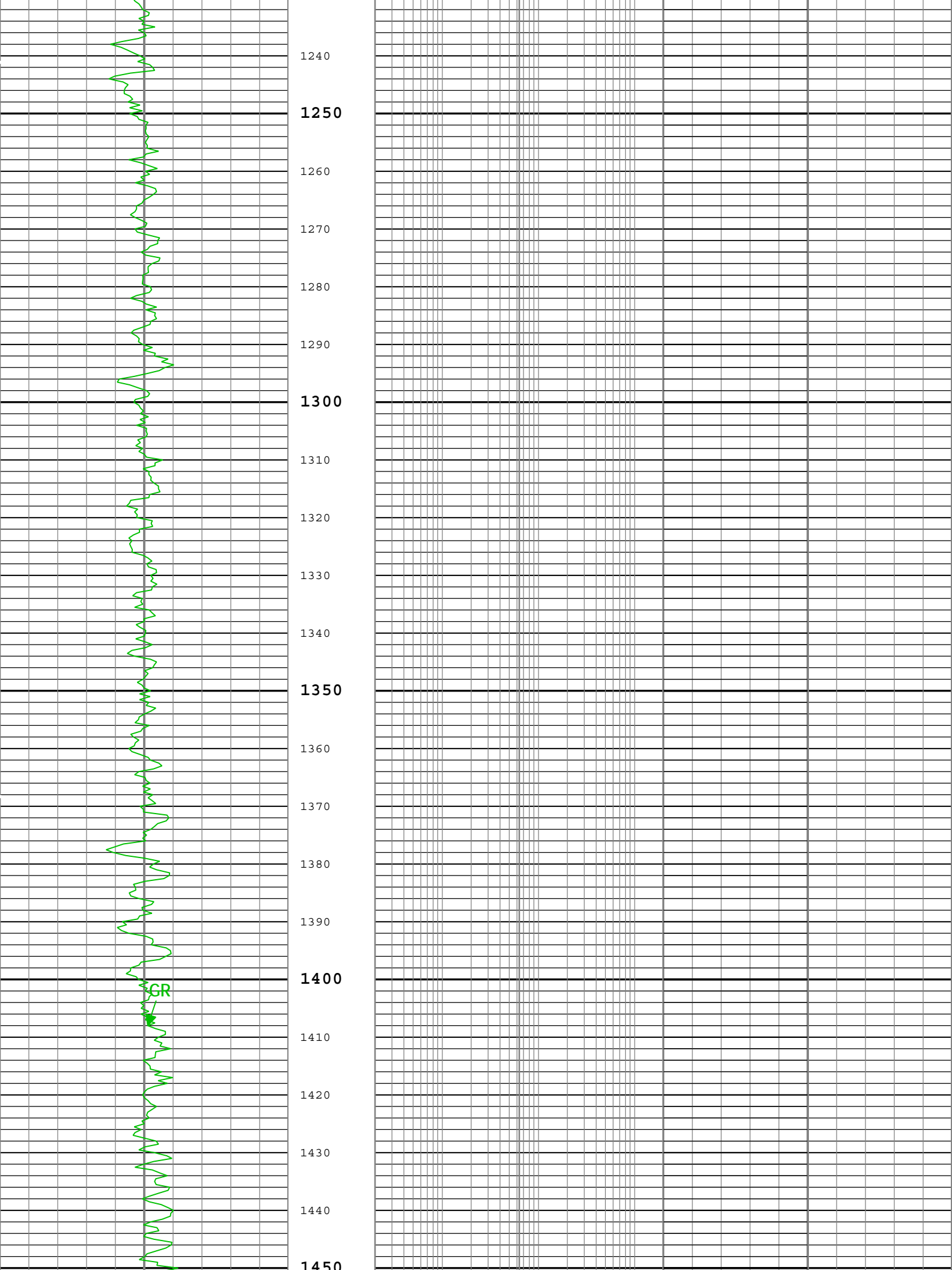


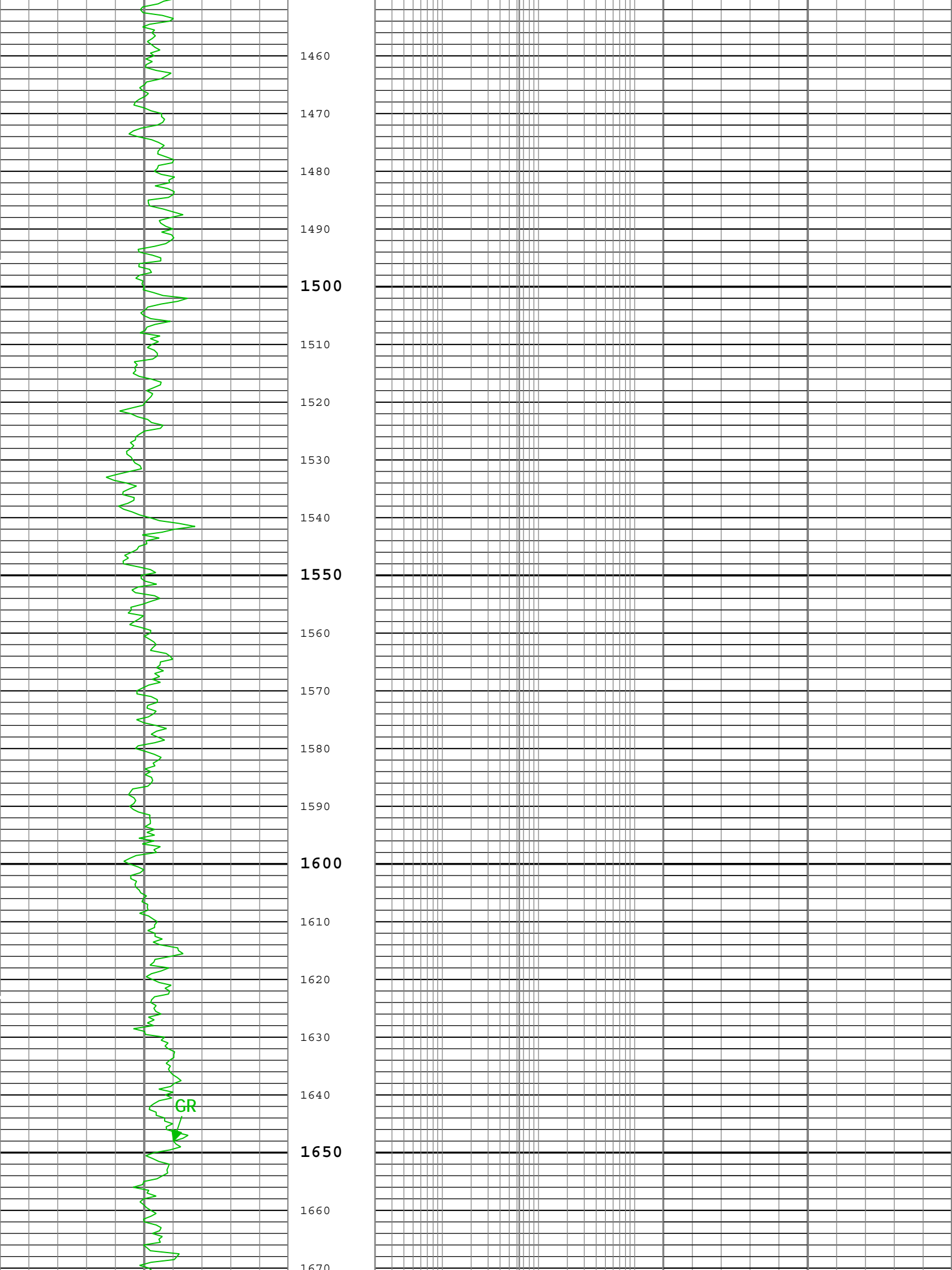


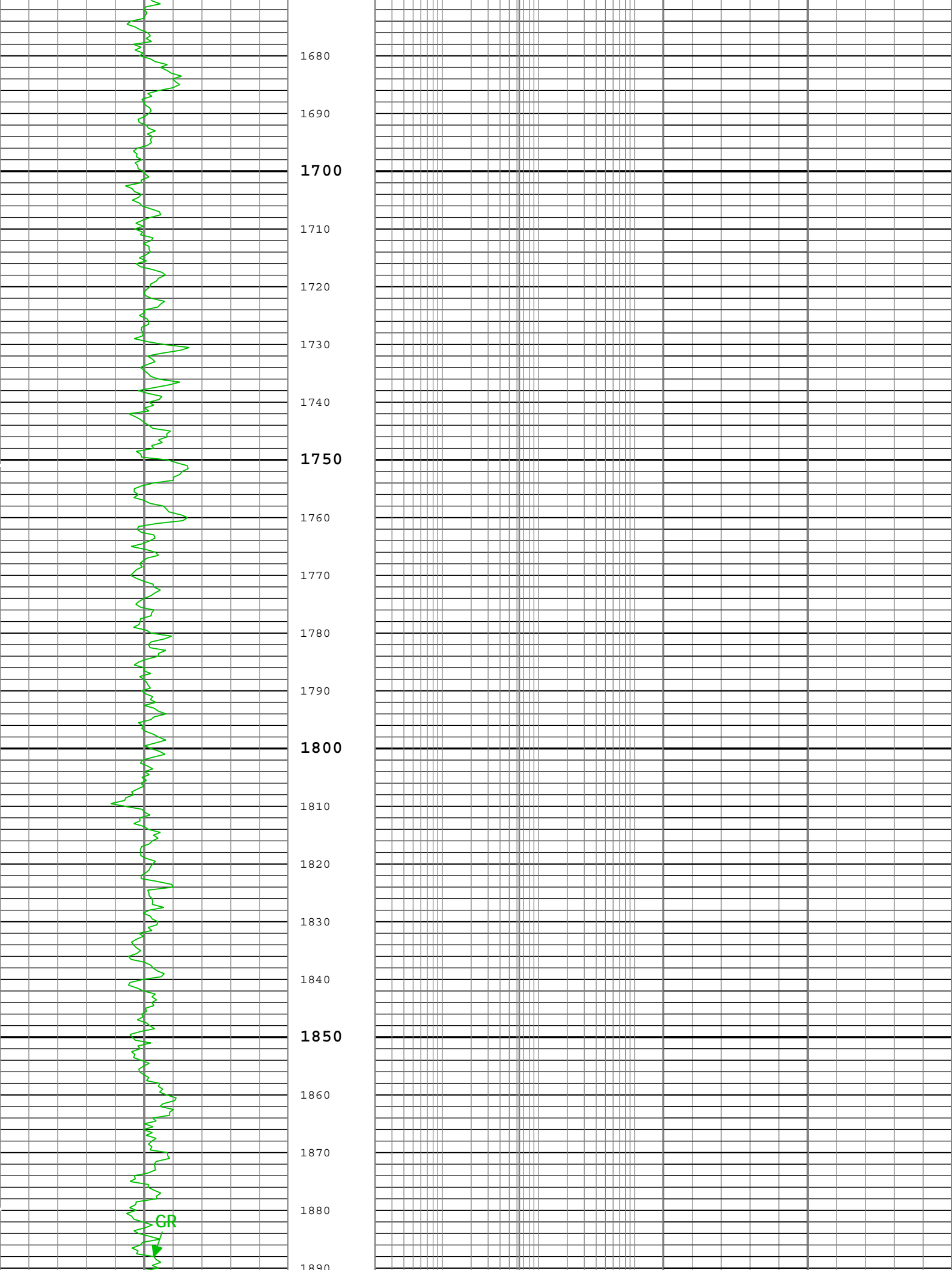


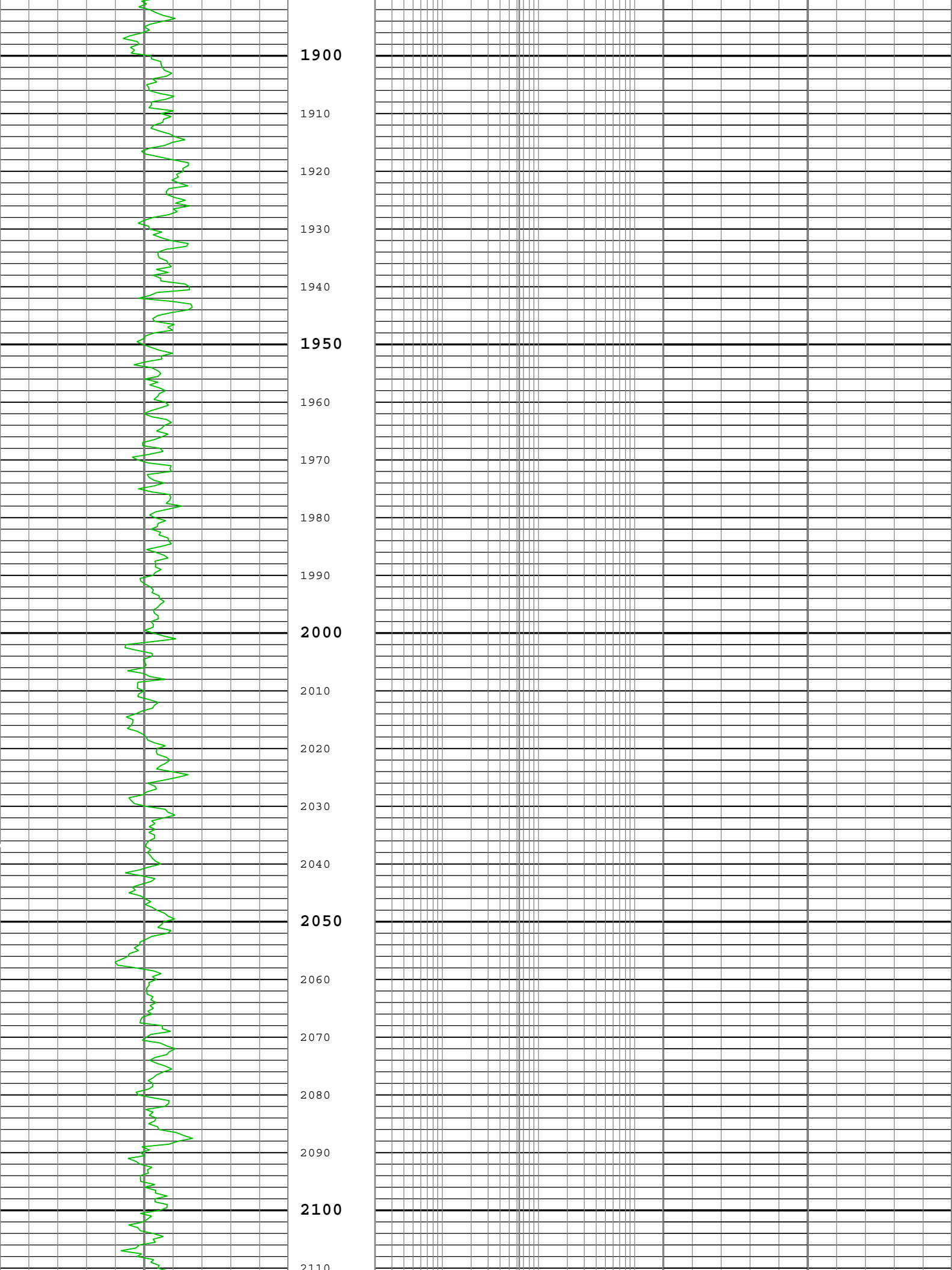


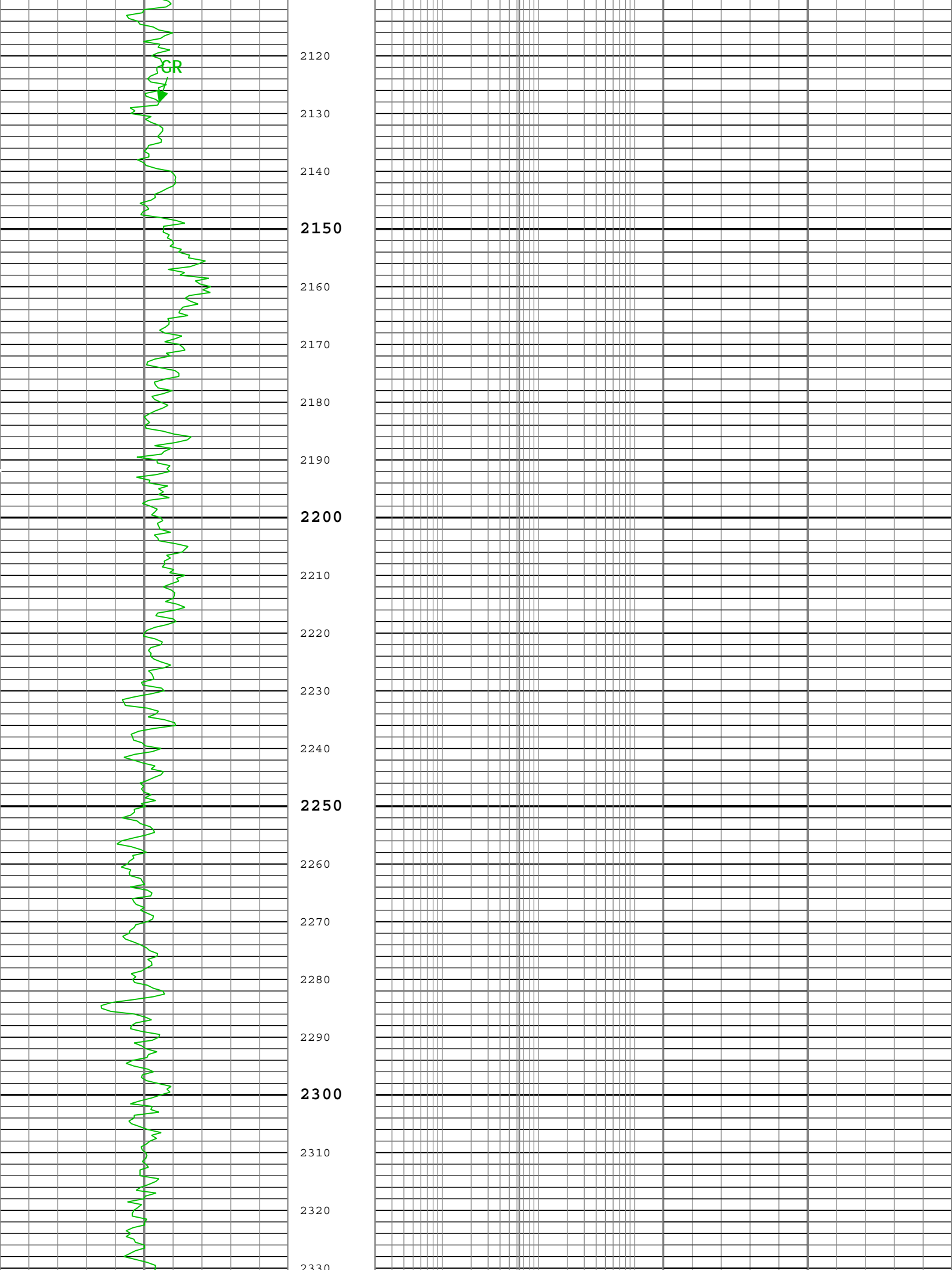


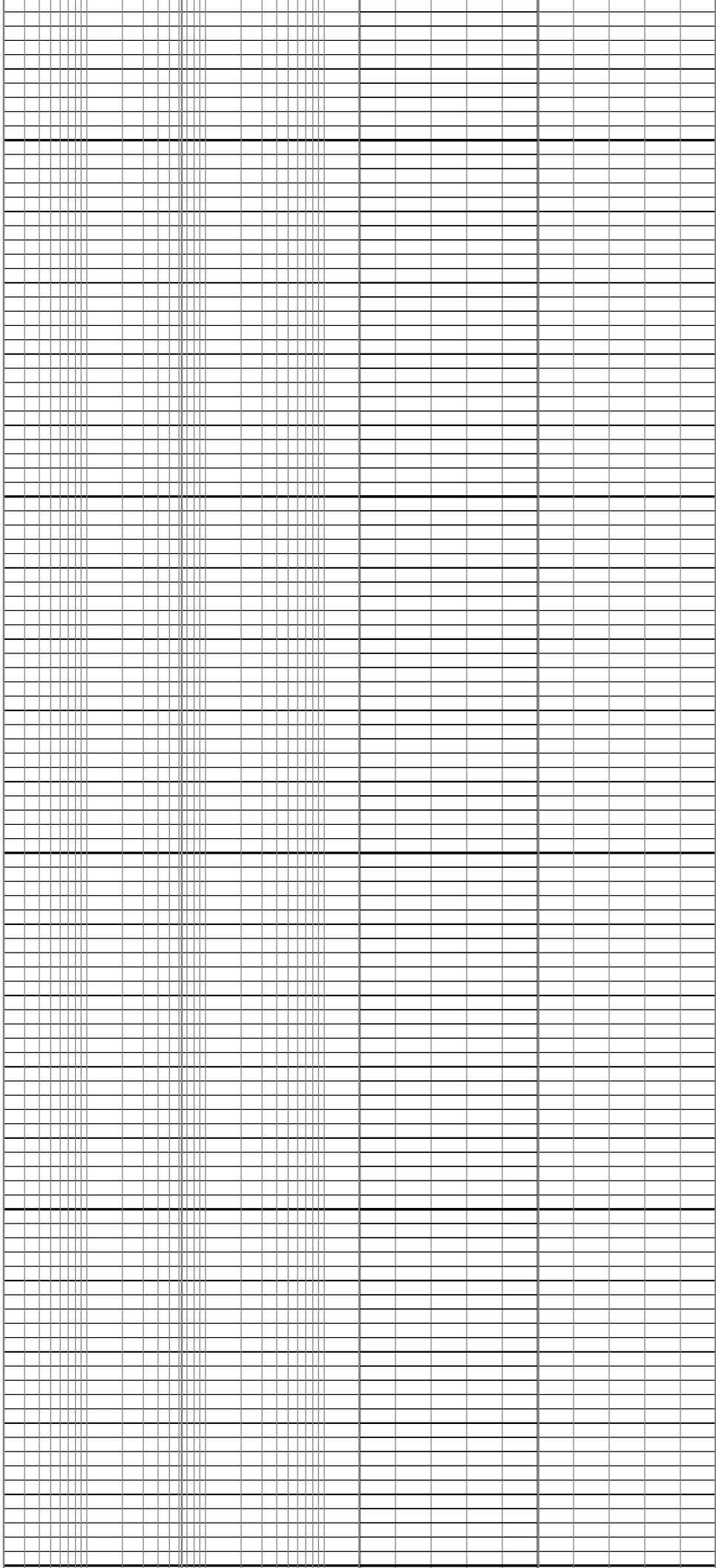
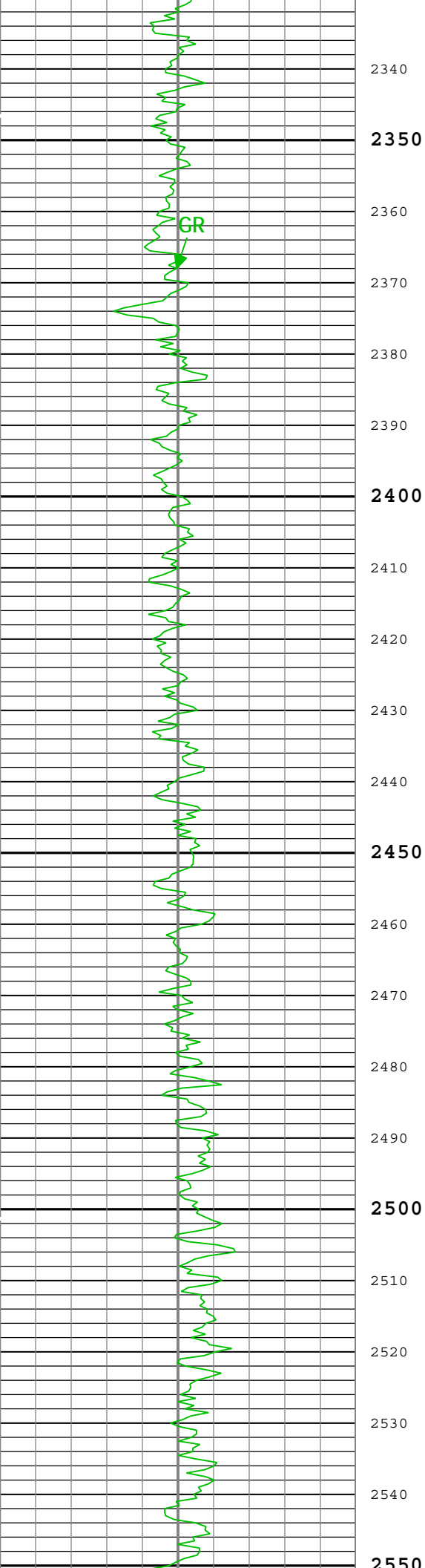


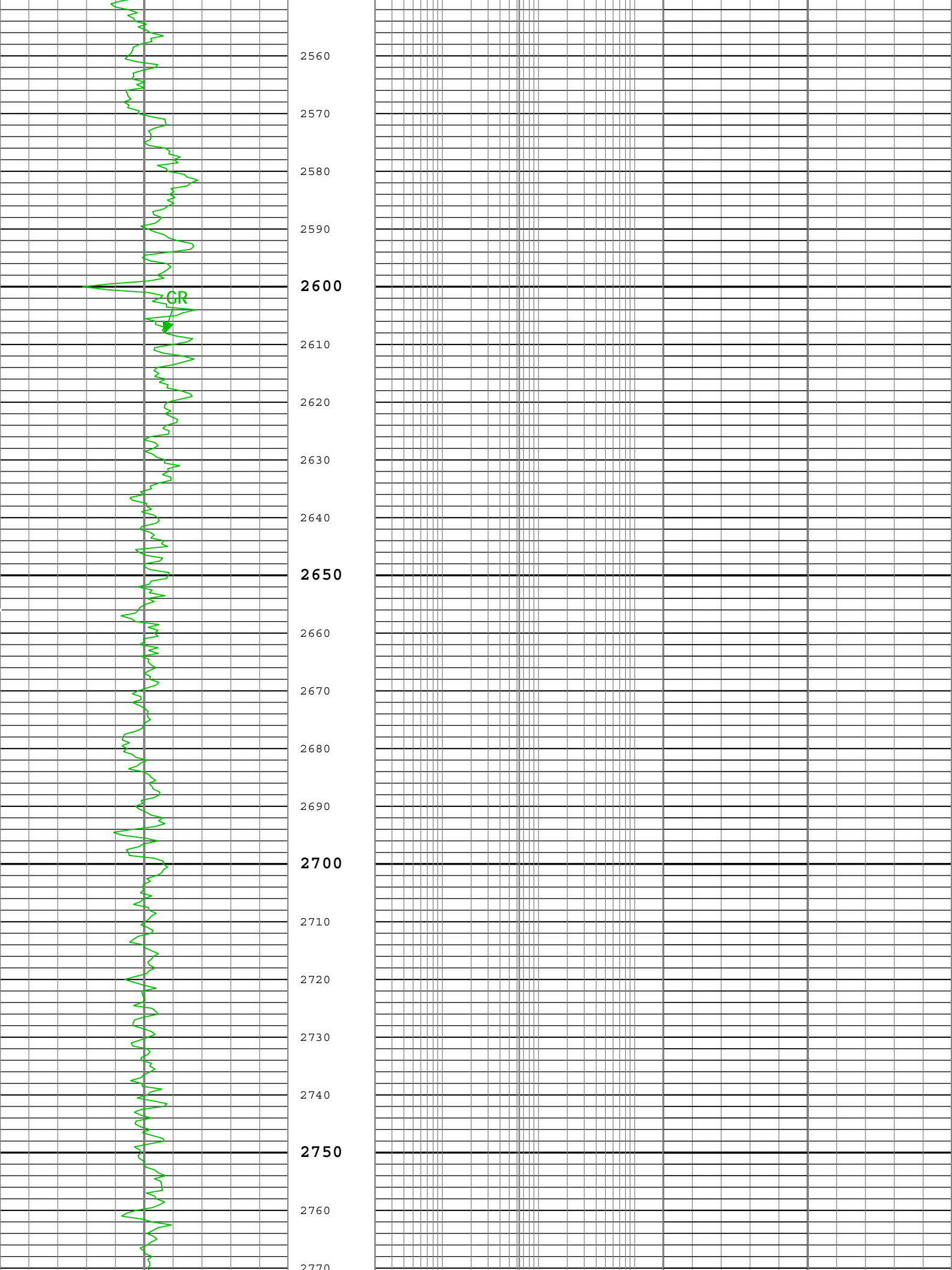


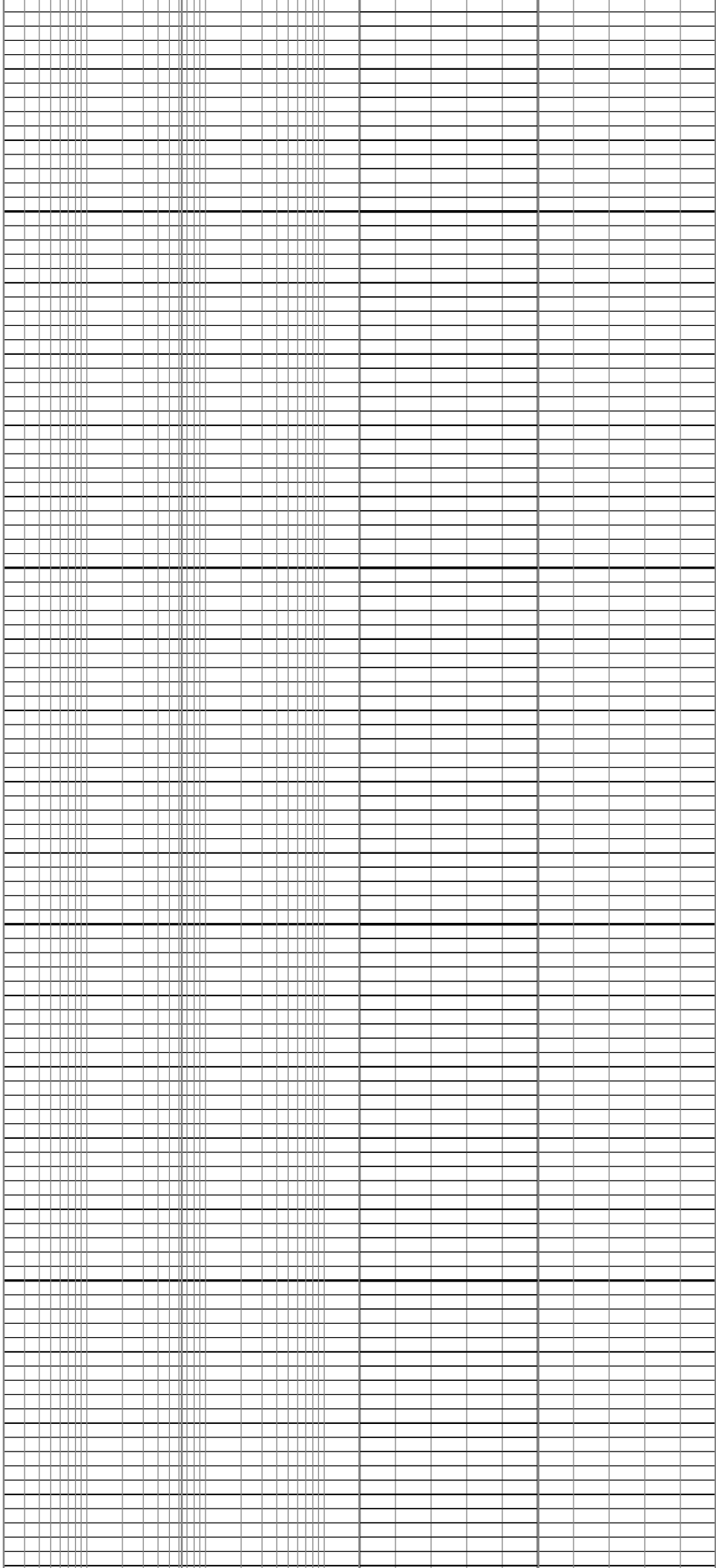
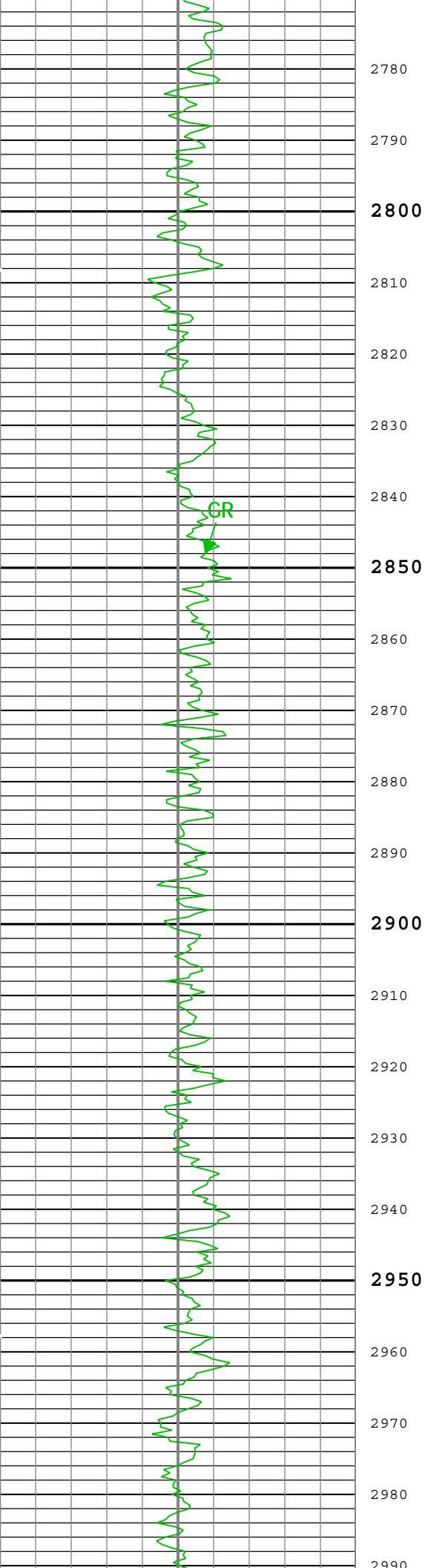


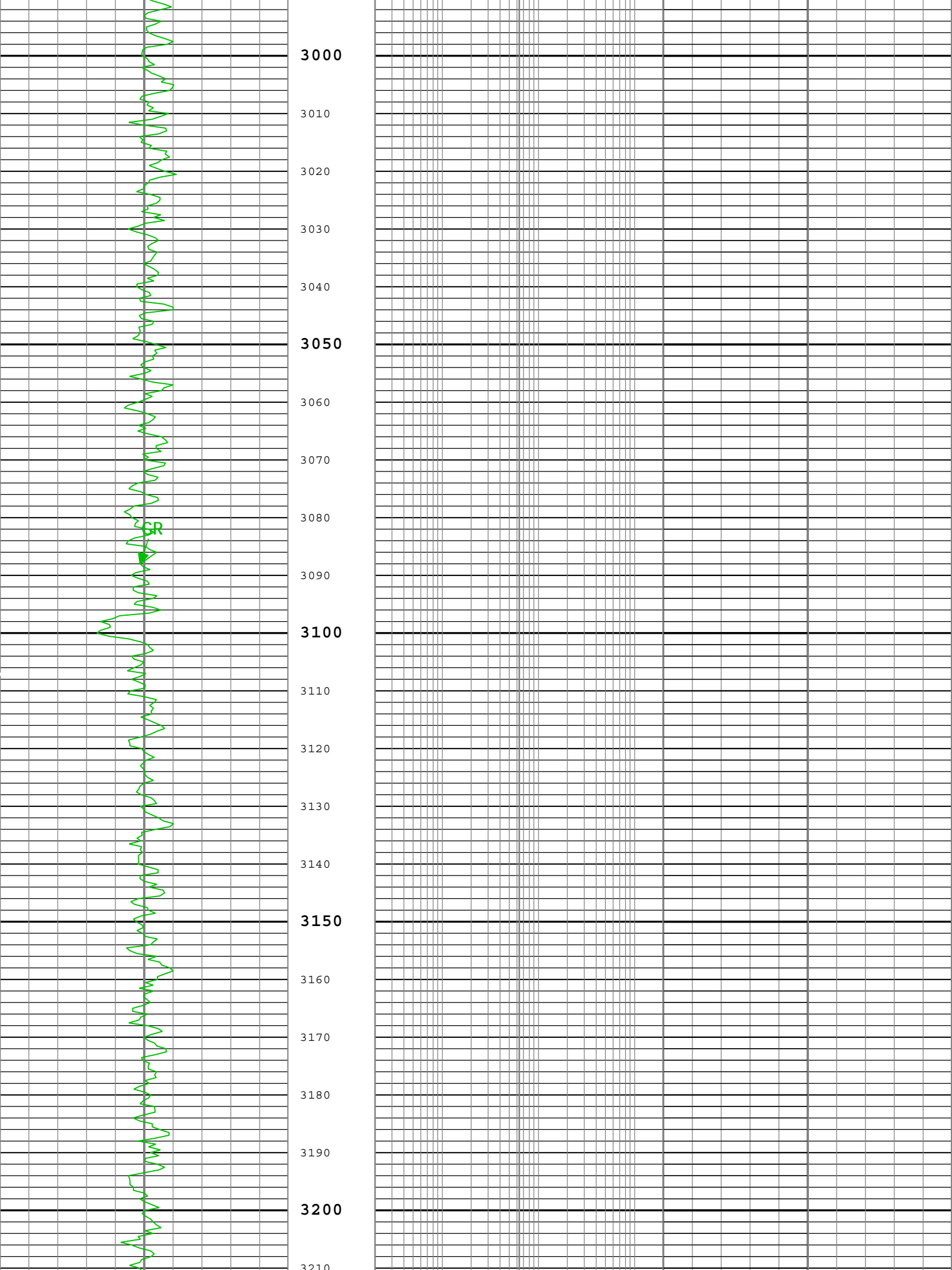


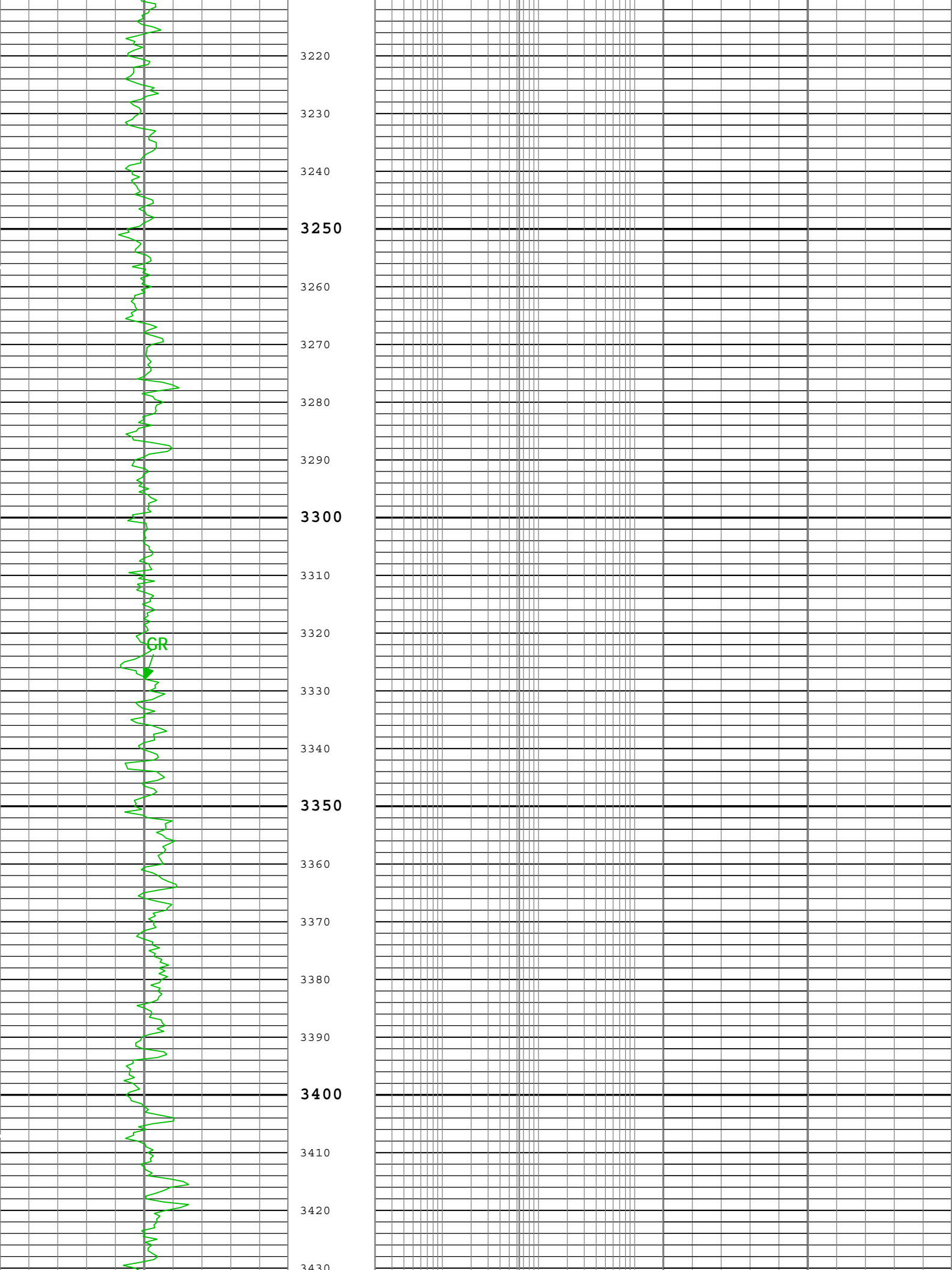


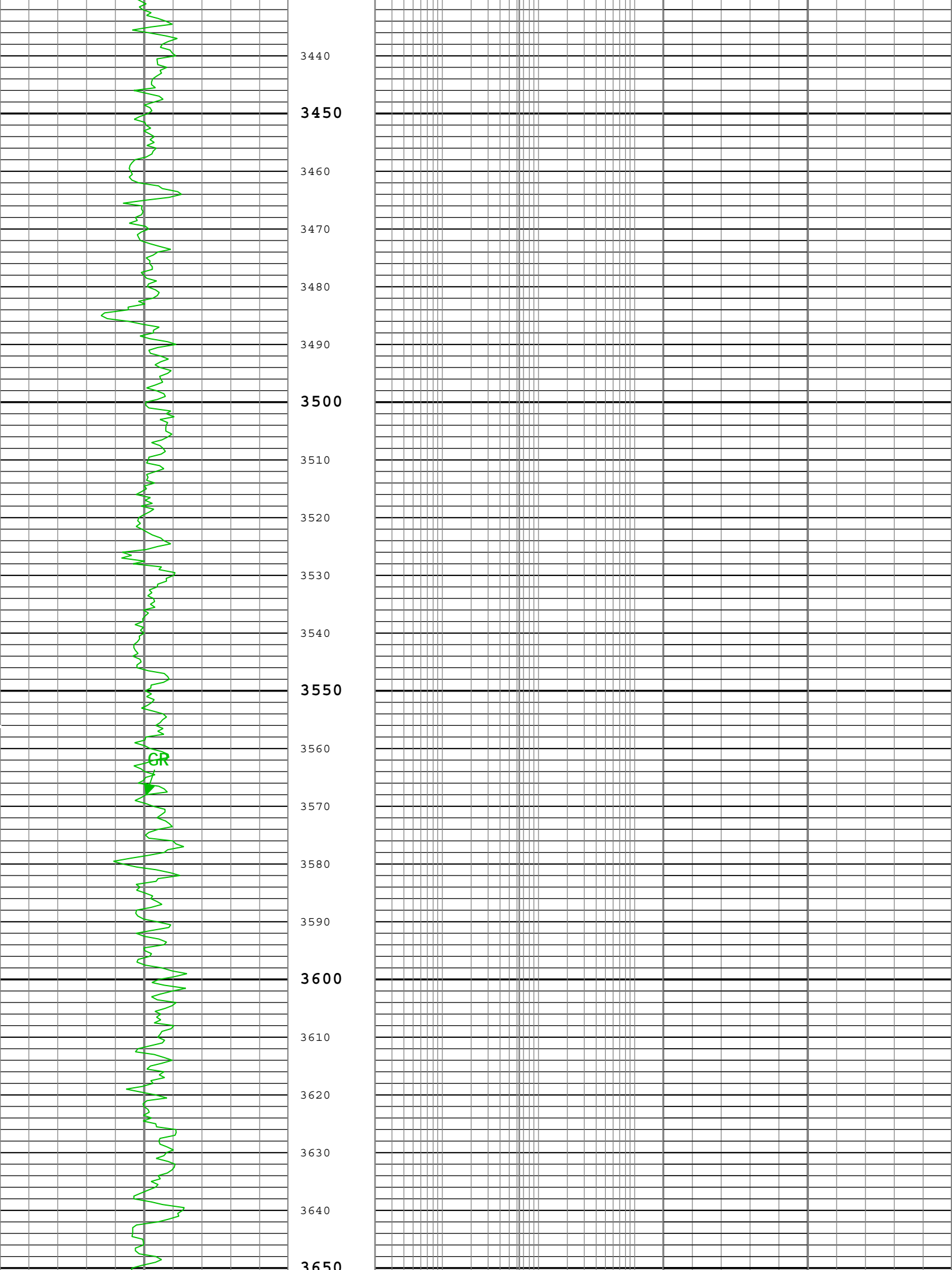


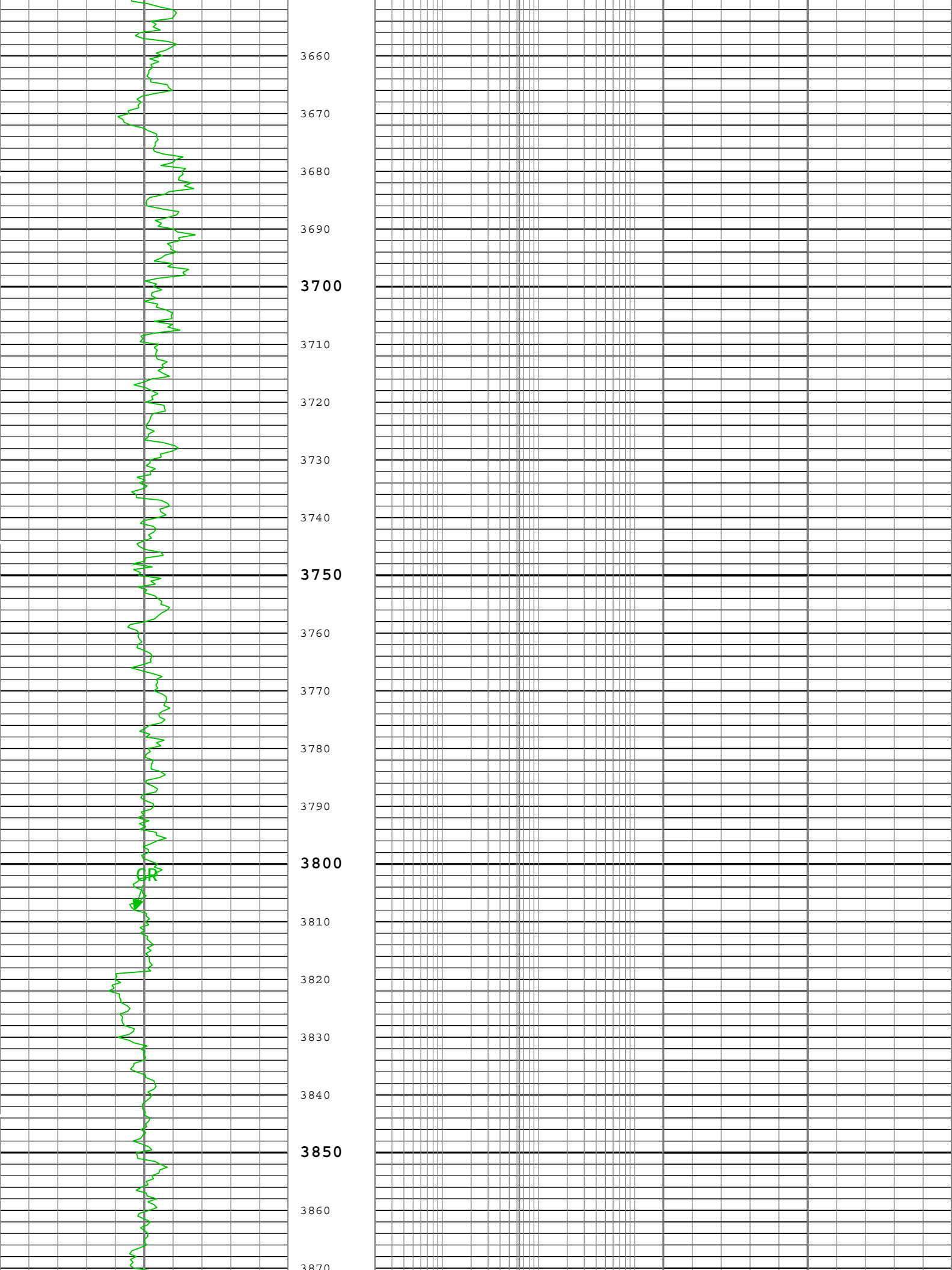


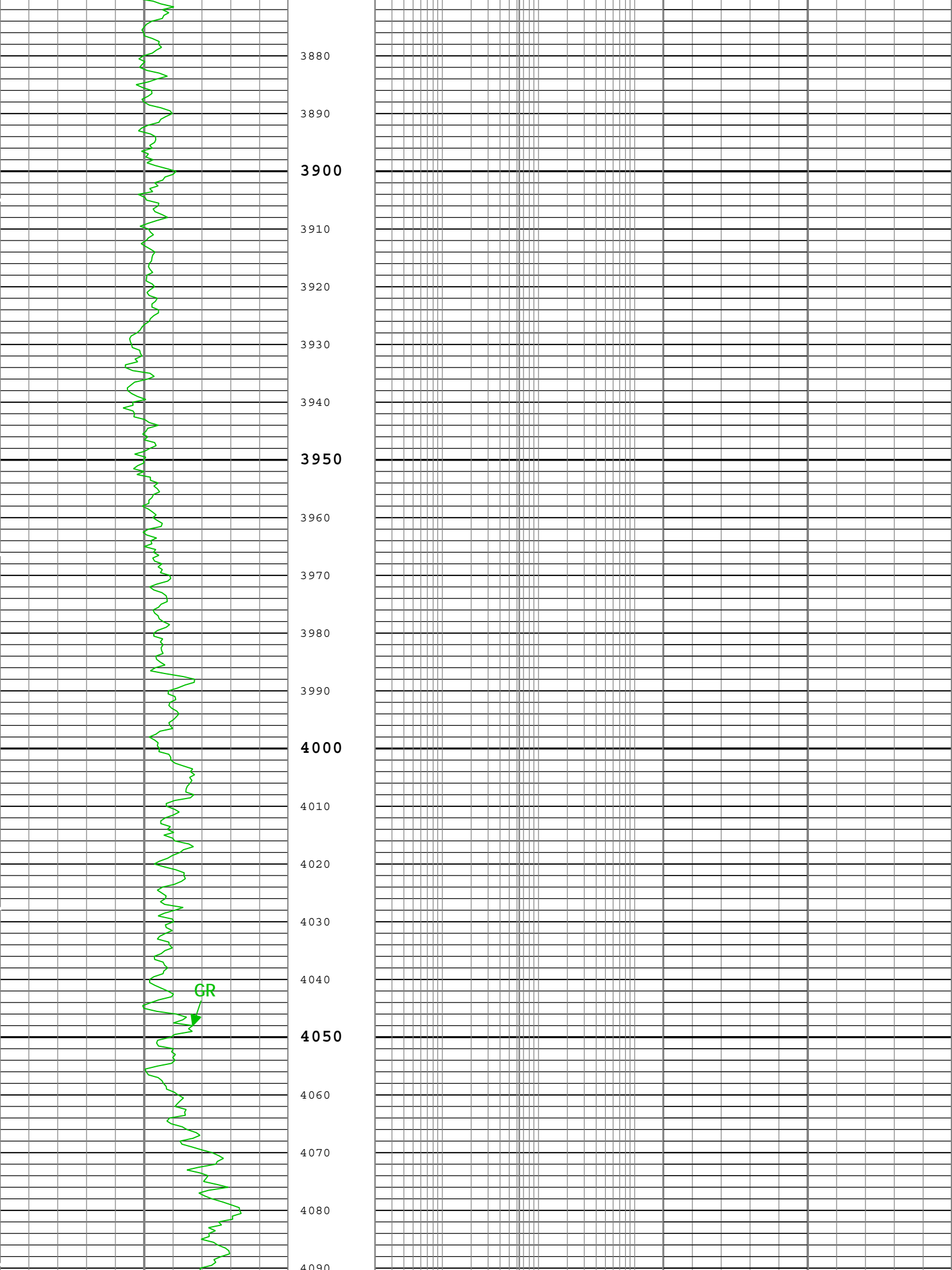


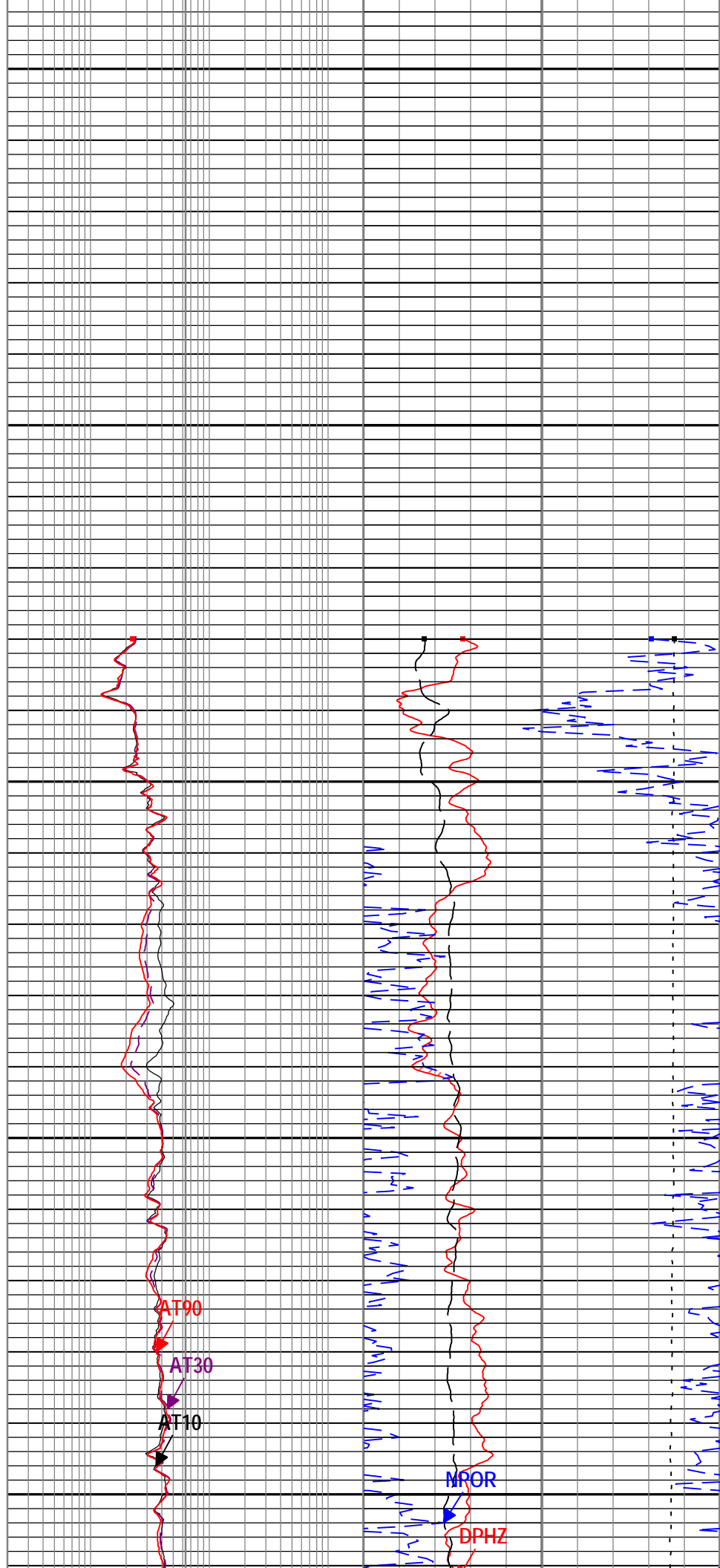
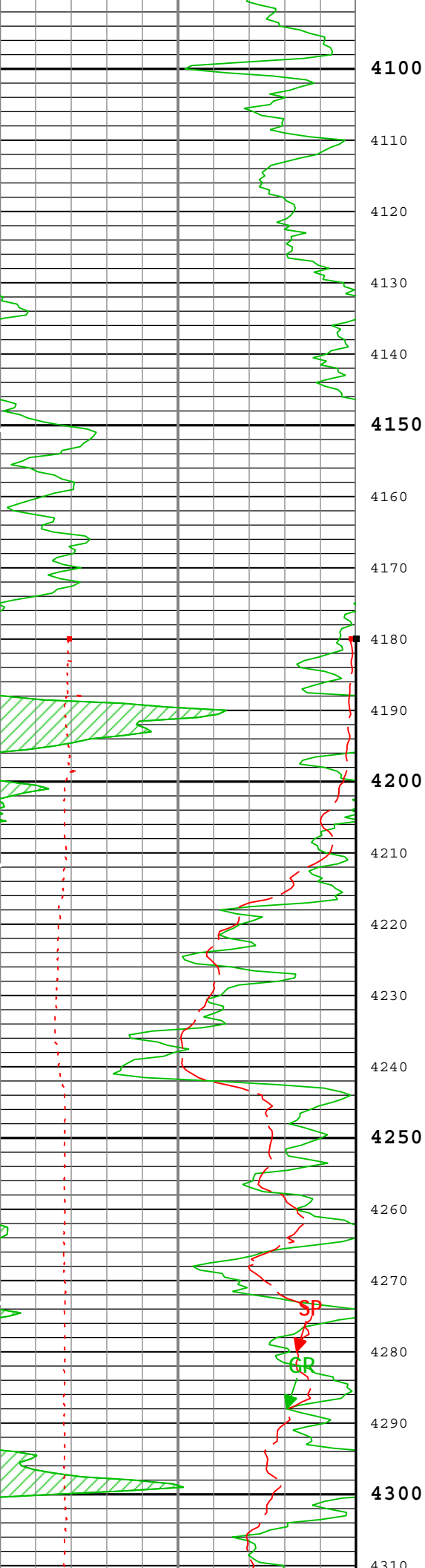


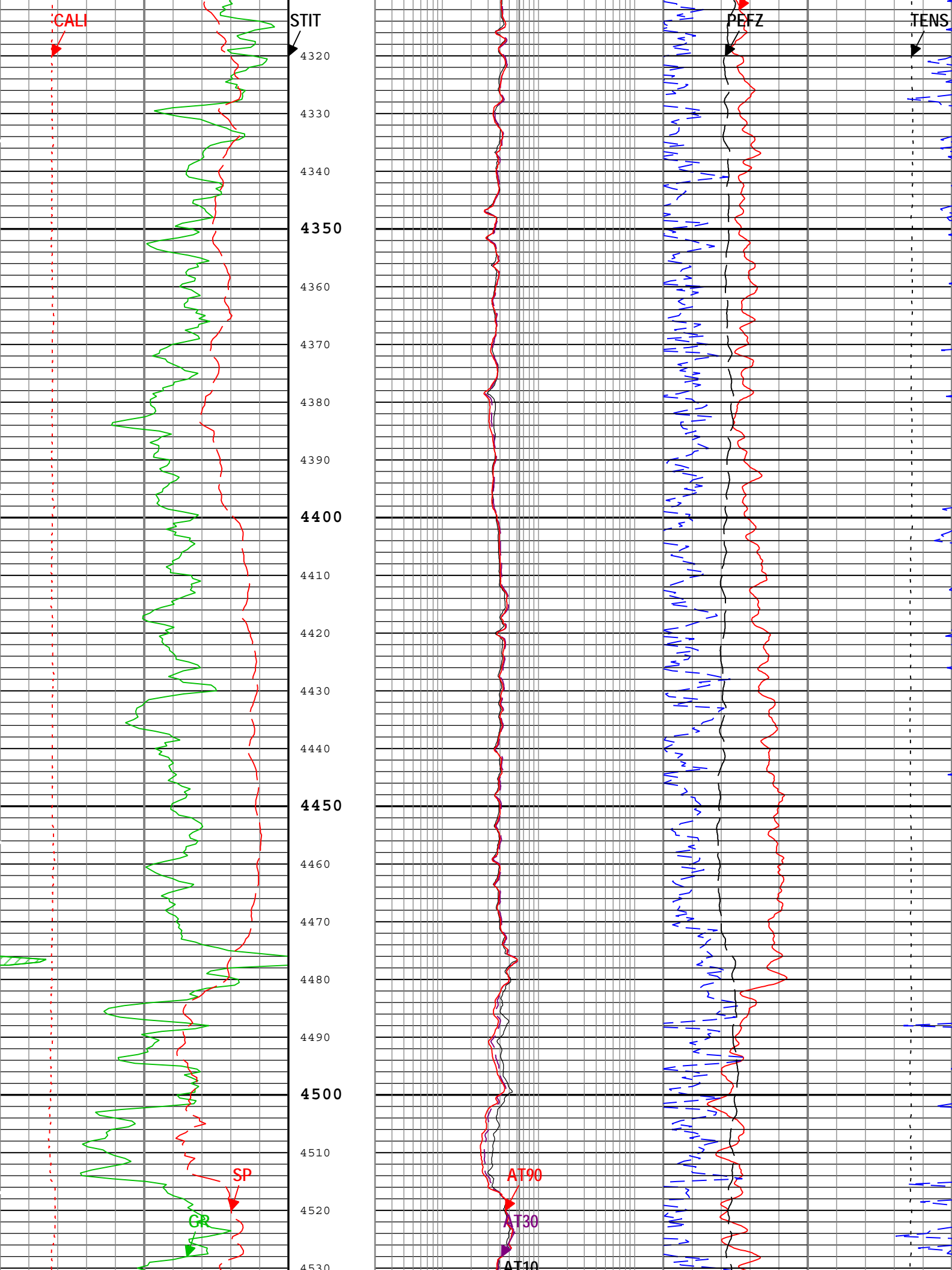


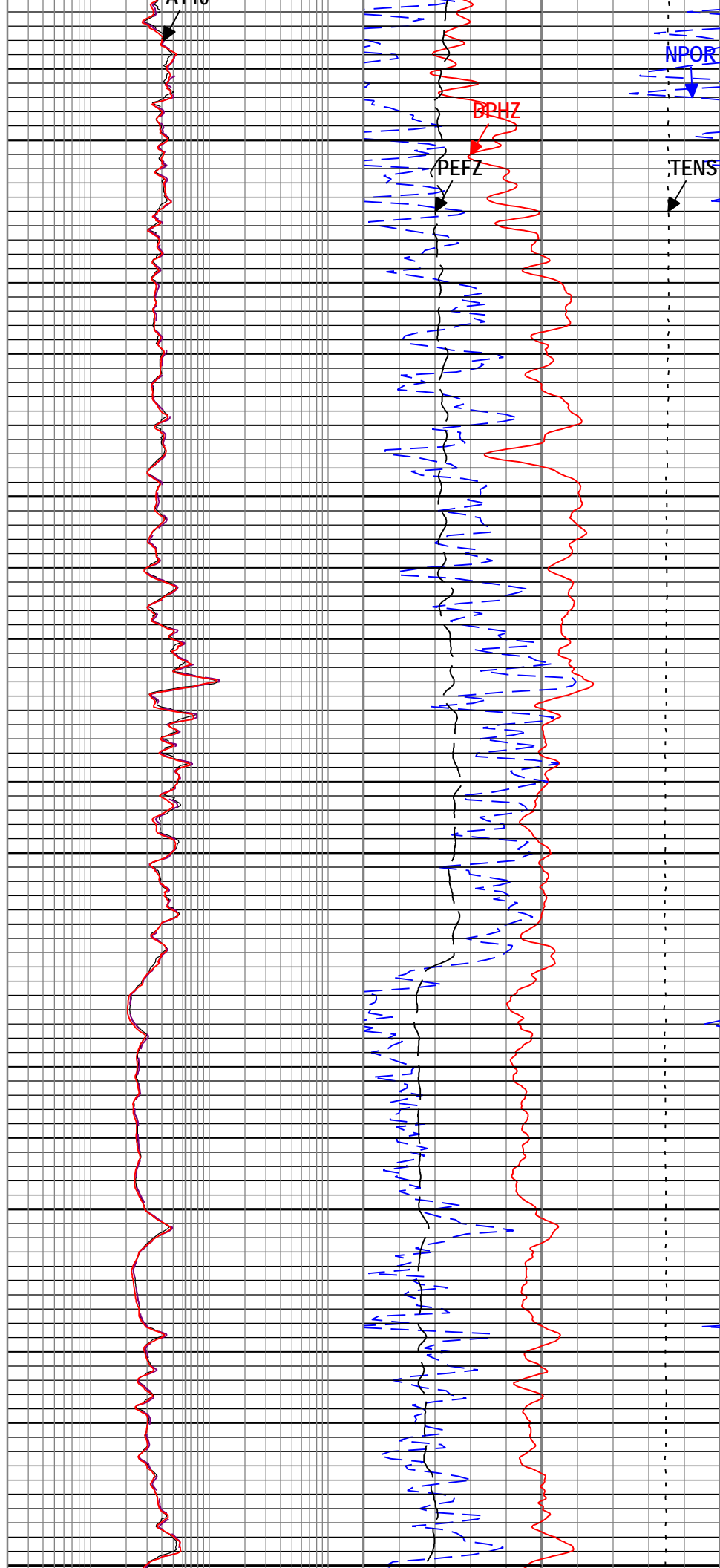
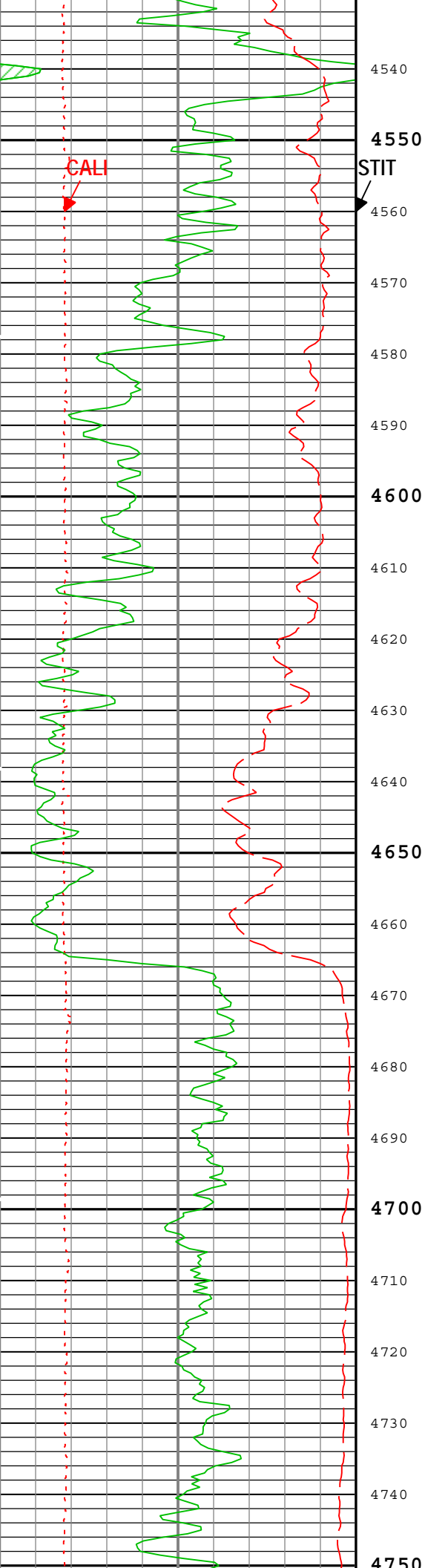


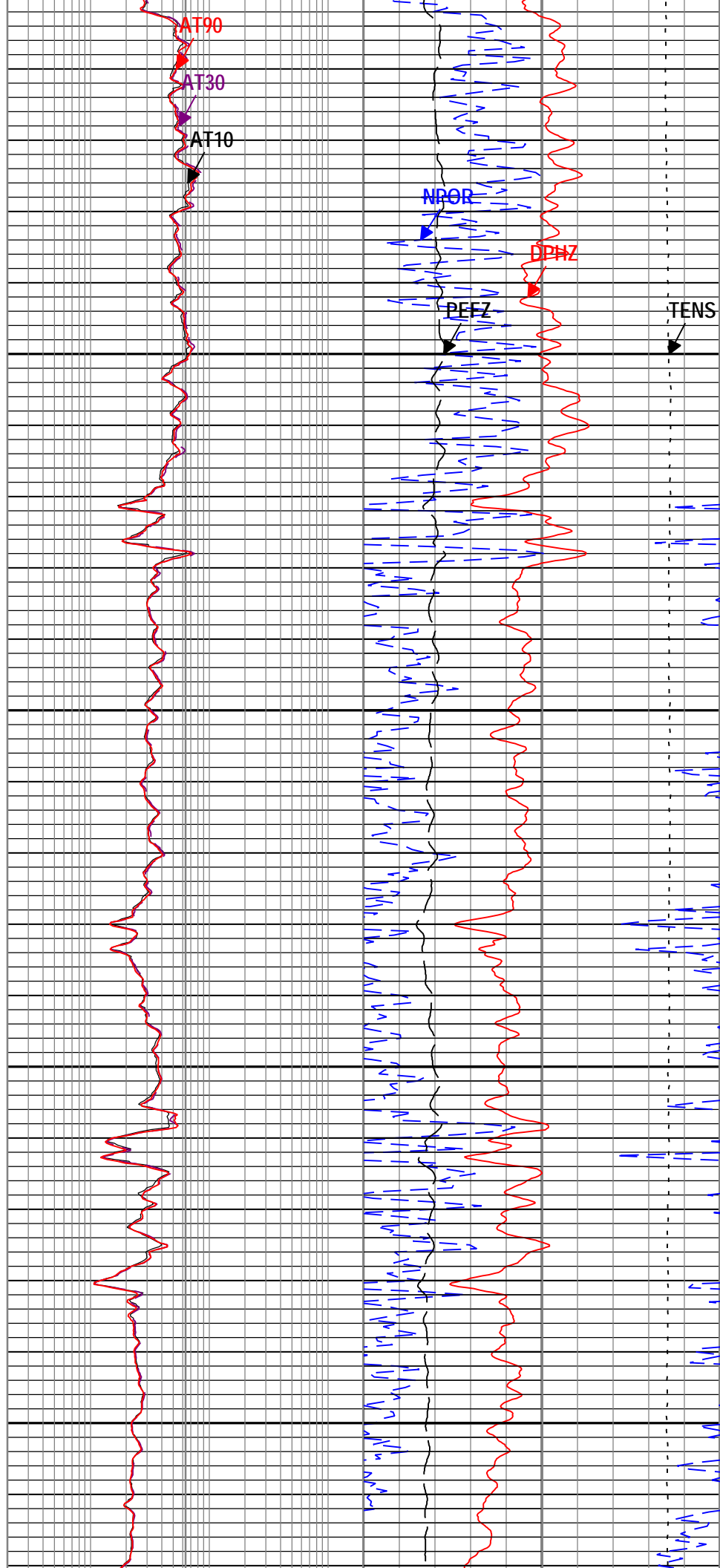
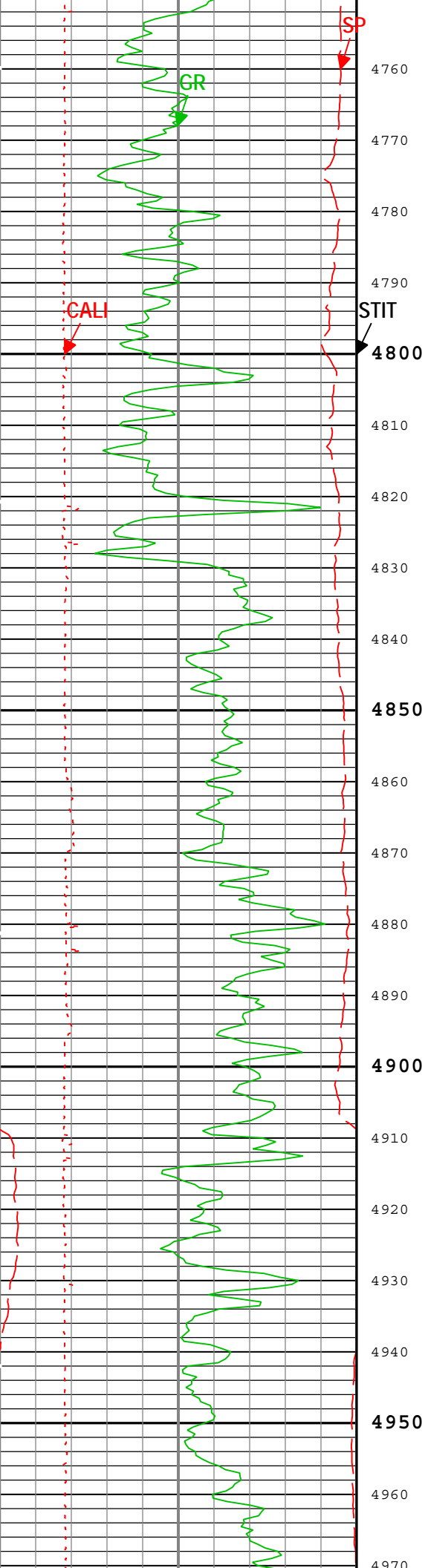


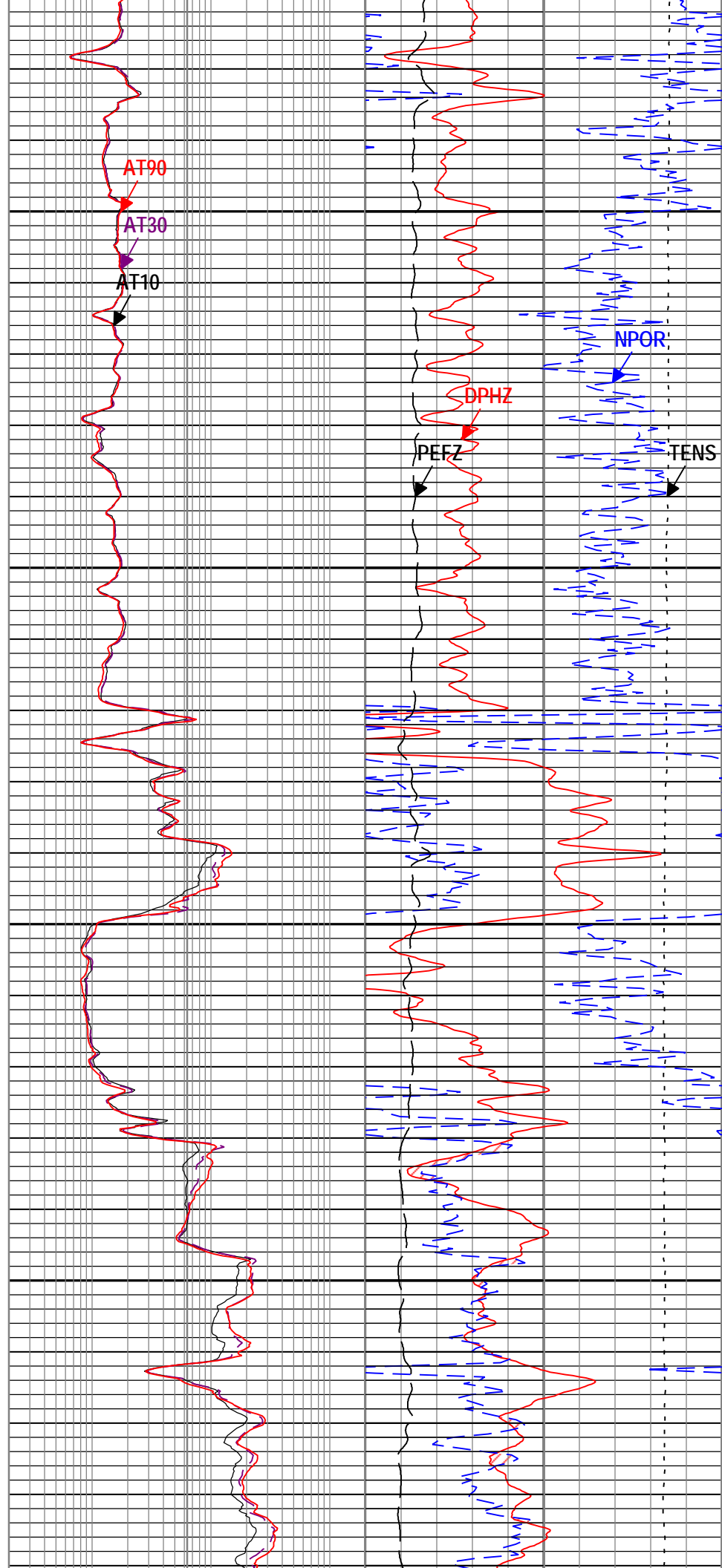
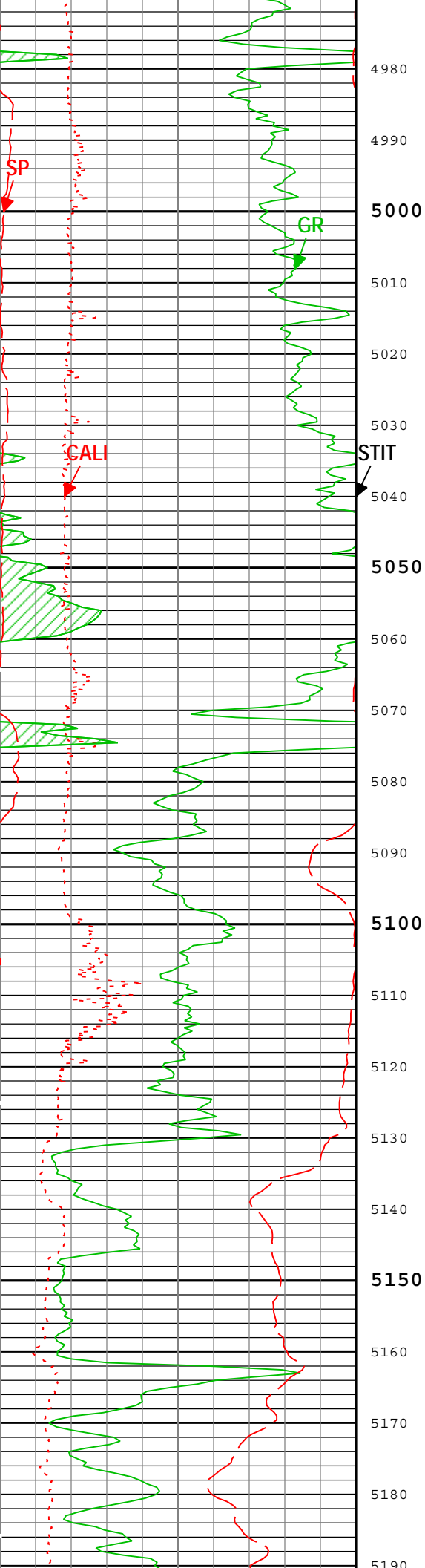


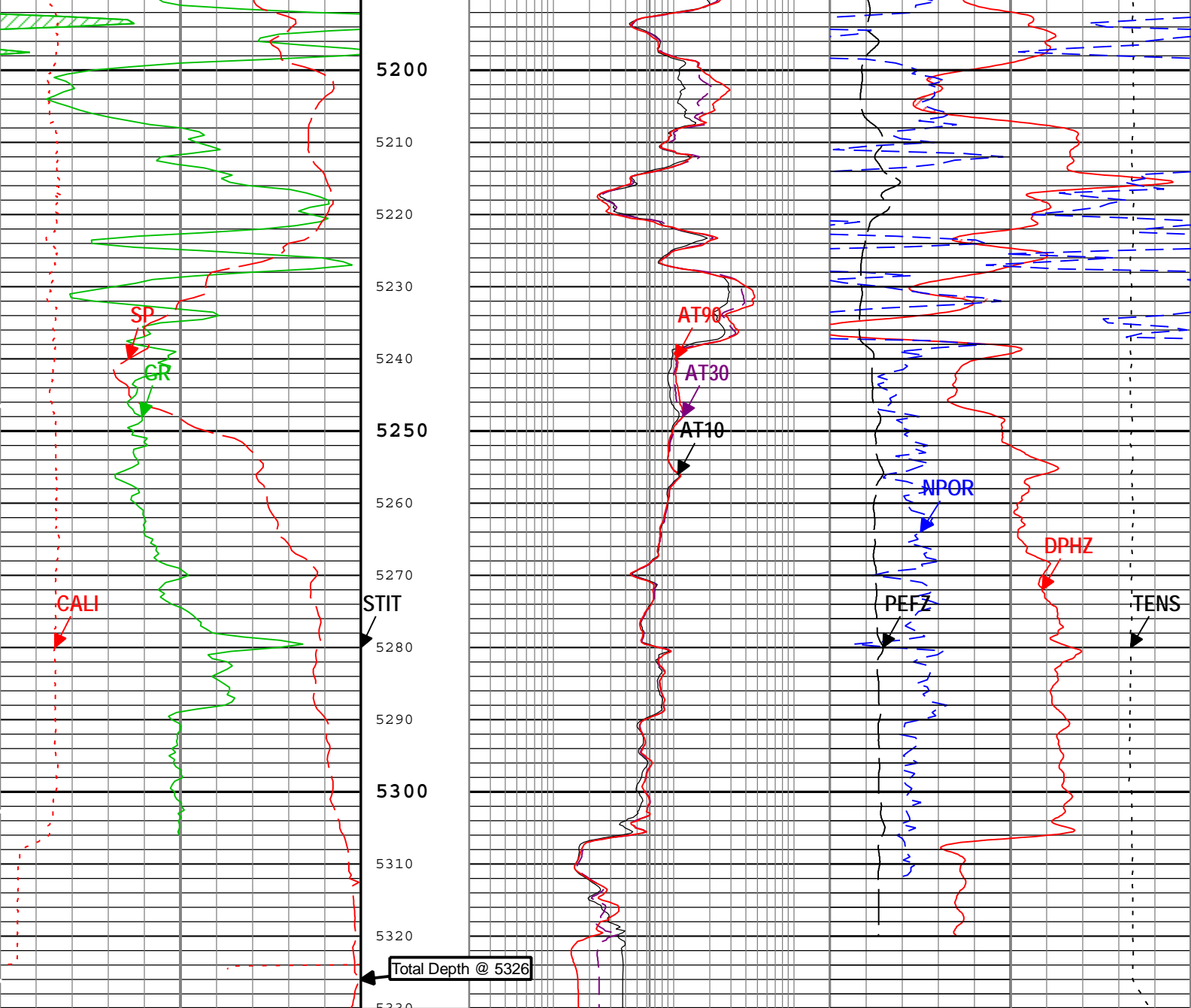












Gamma Ray Back up		
Caliper (CALI) HDRS[1]		
6	in	16
Gamma Ray (GR) HGNS[1]		
0	gAPI	200
Spontaneous Potential (SP) AIT_SpliceGroup[1]		
-80	mV	20

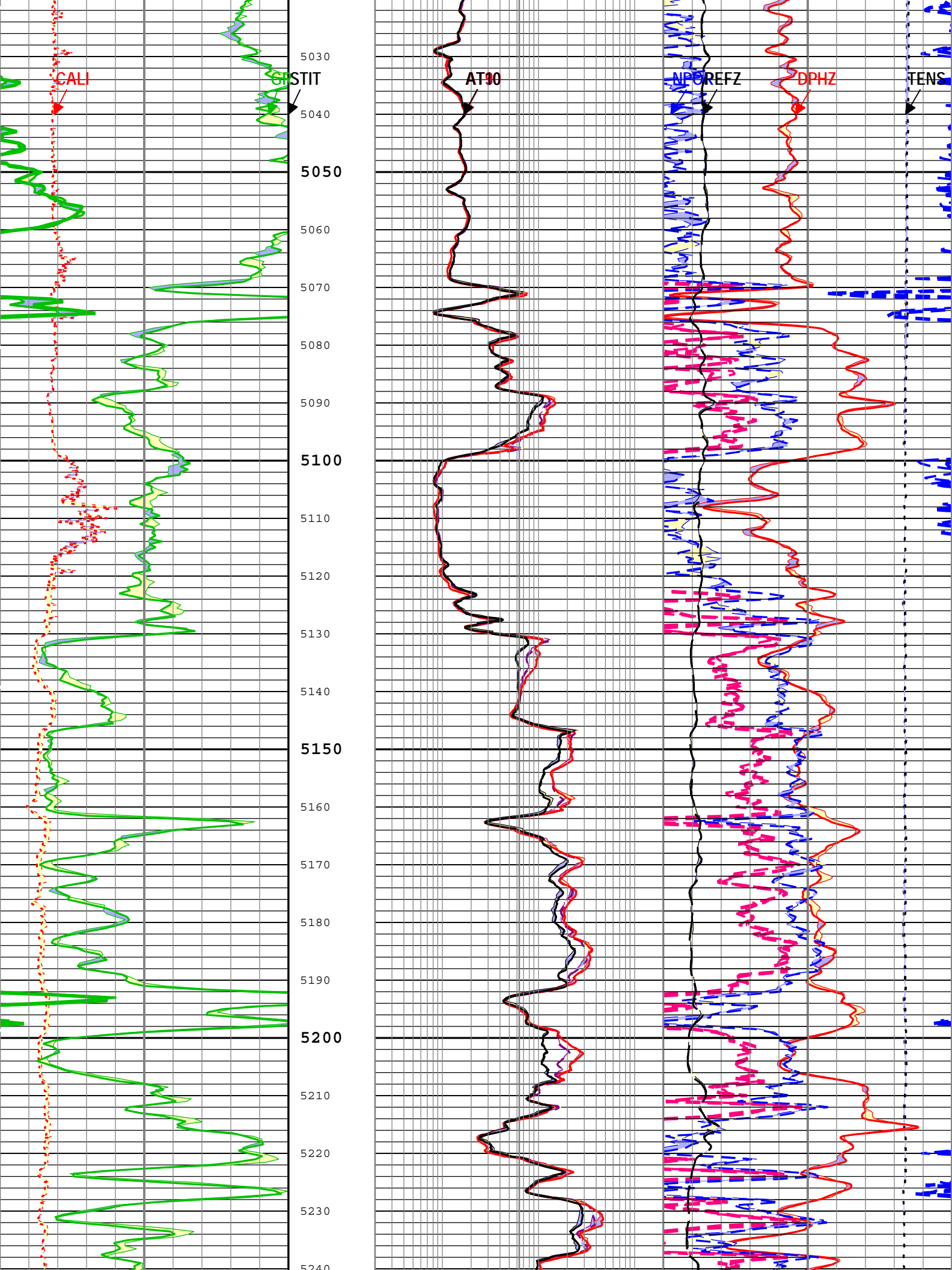
Stuck Tool Indicator, Total (STIT)
0 ft 50

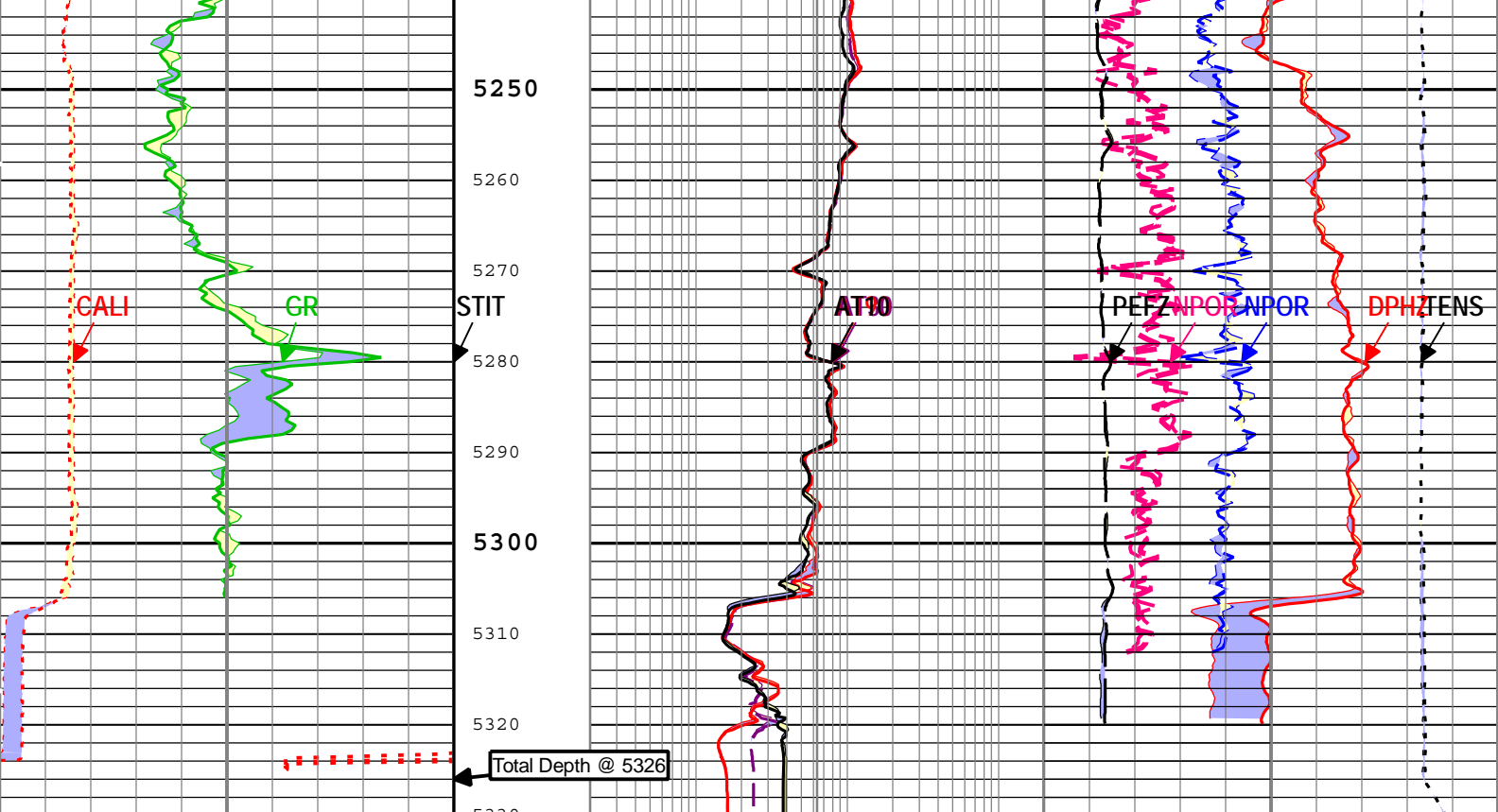
Array Induction Two Foot Resistivity A10 (AT10) AIT_SpliceGroup[1]		
0.2	ohm.m	200
Array Induction Two Foot Resistivity A30 (AT30) AIT_SpliceGroup[1]		
0.2	ohm.m	200
Array Induction Two Foot Resistivity A90 (AT90) AIT_SpliceGroup[1]		
0.2	ohm.m	200

Gas Effect		
NPOR Backup		
Cable Tension (TENS)		
8000	lbf	0
Standard Resolution Density Porosity (DPHZ) HDRS[1]		
0.3	ft3/ft3	-0.1
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS[1]		
0.3	m3/m3	-0.1
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS[1]		
0		10

Channel Processing Parameters				
1: Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-H	Compute Standoff	
ACDE	Array Induction Casing Detection Enable	AIT-H	No	
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	150	degF
BS	Bit Size	WLSESSION	7.875	in
BSAL	Borehole Salinity	Borehole	0	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-B	-0.3	in
CBLO	Casing Bottom (Logger)	WLSESSION	215	ft
CDEN	Cement Density	HGNS-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.3	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DHC	Density Hole Correction	HDRS-B	Bit Size	
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	0	ppm
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	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HSCO	Hole Size Correction Option	HGNS-B	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	Depth Zoned	
MDEN	Matrix Density for Density Porosity	Borehole	Depth Zoned	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	72	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.41	ohm.m
SPDR	SP Drift Per Foot	AIT-H	0	mV/ft
TD	Total Measured Depth	Borehole	5326	ft
1Depth Zoned Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
MATR	LIMESTONE	0	5000	
MATR	SANDSTONE	5000	5330	
MDEN	2.71	0	5000	
MDEN	2.68	5000	5330	
All depth are actual.				

Tool Control Parameters				
1: Parameters				
Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-B	0	
HRGD_BRD_TYPE	HRGD Board Type	HDRS-B	WITHOUT_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h
STSO_HRDD	Temperature Source for the Density Algorithm	HDRS-B	Decaytime algorithm	
1				





Main To Repeat		
Repeat To Main		
Caliper (CALI) HDRS-B		
6	in	16
Main To Repeat		
Repeat To Main		
Gamma Ray (GR) HGNS-B		
200	gAPI	400
Main To Repeat		
Repeat To Main		
Gamma Ray (GR) HGNS-B		
0	gAPI	200

Main To Repeat		
Repeat To Main		
Stuck Tool Indicator, Total (STIT)		
0	ft	50

Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A30 (AT30) AIT-H		
0.2	ohm.m	200
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A90 (AT90) AIT-H		
0.2	ohm.m	200
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A10 (AT10) AIT-H		
0.2	ohm.m	200

Main To Repeat		
Repeat To Main		
Cable Tension (TENS)		
8000	lbf	0
Main To Repeat		
Repeat To Main		
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-B		
-0.1	ft3/ft3	-0.5
Main To Repeat		
Repeat To Main		
Standard Resolution Density Porosity (DPHZ) HDRS-B		
0.45	ft3/ft3	-0.15
Main To Repeat		
Repeat To Main		
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-B		
0.45	m3/m3	-0.15
Main To Repeat		
Repeat To Main		
Standard Resolution Formation Porosity (DPHZ) HDRS-B		

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (KM 5in Triple Combo RA) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 02-Dec-2013 12:49:36

Calibration Report

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

Primary Equipment :			
File code for AIT-HA Sonde Tool Element	AHIS		398
Auxiliary Equipment :			
File code for AIT Bottom Nose Tool Element	AHRM		398

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM):		14:58:41 22-Nov-2013						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Test Loop Gain - 0		Master	1.000	0.950	1.017	1.050		
Test Loop Phase - 0	deg	Master	0	-3.000	0.398	3.000		
Test Loop Gain - 1		Master	1.000	0.950	1.014	1.050		
Test Loop Phase - 1	deg	Master	0	-3.000	0.549	3.000		
Test Loop Gain - 2		Master	1.000	0.950	1.024	1.050		
Test Loop Phase - 2	deg	Master	0	-3.000	0.112	3.000		
Test Loop Gain - 3		Master	1.000	0.950	1.016	1.050		
Test Loop Phase - 3	deg	Master	0	-3.000	0.068	3.000		
Test Loop Gain - 4		Master	1.000	0.950	0.998	1.050		
Test Loop Phase - 4	deg	Master	0	-3.000	0.036	3.000		
Test Loop Gain - 5		Master	1.000	0.950	0.989	1.050		
Test Loop Phase - 5	deg	Master	0	-3.000	-0.113	3.000		
Test Loop Gain - 6		Master	1.000	0.950	0.998	1.050		
Test Loop Phase - 6	deg	Master	0	-3.000	0.242	3.000		
Test Loop Gain - 7		Master	1.000	0.950	1.014	1.050		
Test Loop Phase - 7	deg	Master	0	-3.000	-0.140	3.000		

AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM):		14:58:41 22-Nov-2013						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-84.077	119.000		
Sonde Error Correction Quad - 0		Master	-----	-2250.000	104.695	2250.000		
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	169.537	204.000		
Sonde Error Correction Quad - 1		Master	-----	-625.000	138.176	625.000		
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	113.890	156.000		
Sonde Error Correction Quad - 2		Master	-----	-350.000	30.222	350.000		
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	59.587	89.000		
Sonde Error Correction Quad - 3		Master	-----	-250.000	52.189	250.000		
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	23.006	35.000		
Sonde Error Correction Quad - 4		Master	-----	-63.000	-10.696	63.000		
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	13.578	24.000		
Sonde Error Correction Quad - 5		Master	-----	-50.000	2.378	50.000		
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.300	15.000		
Sonde Error Correction Quad - 6		Master	-----	-30.000	5.771	30.000		
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-1.081	5.000		
Sonde Error Correction Quad - 7		Master	-----	-30.000	3.282	30.000		

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM):		14:58:41 22-Nov-2013						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Coarse Gain		Master	1.000	0.800	0.805	1.200		
Fine Gain		Master	1.000	0.800	0.805	1.200		

AIT Electronics Check - Thru Calibration Check

Master (EEPROM):		14:58:41 22-Nov-2013	Before (Measured):	10:53:28 01-Dec-2013	After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Thru Cal Mag - 0	V	Master	-----	0.363	0.626	0.847		

		Before	----	0.363	0.625	0.847	<div><div></div></div>
		After	----	-----	-----	-----	<div><div></div></div>
		Before-Master	----	-----	-0.001	-----	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Phase - 0	deg	Master	----	11.000	74.309	131.000	<div><div></div></div>
		Before	----	11.000	74.883	131.000	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	0.574	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Mag - 1	V	Master	----	0.762	1.282	1.778	<div><div></div></div>
		Before	----	0.762	1.282	1.778	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	0.000	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Phase - 1	deg	Master	----	10.000	73.289	130.000	<div><div></div></div>
		Before	----	10.000	73.870	130.000	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	0.581	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Mag - 2	V	Master	----	0.374	0.636	0.872	<div><div></div></div>
		Before	----	0.374	0.635	0.872	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	-0.001	---	<div><div></div></div>
		After-Before	----	---	-----	-----	<div><div></div></div>
Thru Cal Phase - 2	deg	Master	----	6.000	69.097	126.000	<div><div></div></div>
		Before	----	6.000	69.704	126.000	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	0.607	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Mag - 3	V	Master	----	0.422	0.722	0.986	<div><div></div></div>
		Before	----	0.422	0.721	0.986	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	-0.001	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Phase - 3	deg	Master	----	5.000	68.194	125.000	<div><div></div></div>
		Before	----	5.000	68.803	125.000	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	0.609	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Mag - 4	V	Master	----	0.802	1.345	1.872	<div><div></div></div>
		Before	----	0.802	1.345	1.872	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	0.000	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Phase - 4	deg	Master	----	-1.000	61.223	119.000	<div><div></div></div>
		Before	----	-1.000	61.869	119.000	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	0.646	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Mag - 5	V	Master	----	1.173	1.943	2.737	<div><div></div></div>
		Before	----	1.173	1.942	2.737	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	-0.001	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Phase - 5	deg	Master	----	-3.000	59.049	117.000	<div><div></div></div>
		Before	----	-3.000	59.729	117.000	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	0.680	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Mag - 6	V	Master	----	1.173	1.939	2.737	<div><div></div></div>
		Before	----	1.173	1.938	2.737	<div><div></div></div>
		After	----	---	---	---	<div><div></div></div>
		Before-Master	----	---	-0.001	---	<div><div></div></div>
		After-Before	----	-----	-----	-----	<div><div></div></div>
Thru Cal Phase - 6	deg	Master	----	-3.000	59.112	117.000	<div><div></div></div>
		Before	----	-3.000	59.793	117.000	<div><</div>

Thru Cal Mag - 7	V	After-Before	----	----	----	----	
		Master	----	0.849	1.378	1.981	
		Before	----	0.849	1.379	1.981	
		After	----	----	----	----	
		Before-Master	----	----	0.001	----	
Thru Cal Phase - 7	deg	After-Before	----	----	----	----	
		Master	----	-7.000	53.464	113.000	
		Before	----	-7.000	54.394	113.000	
		After	----	----	----	----	
		Before-Master	----	----	0.930	----	
SPA Zero	mV	After-Before	----	----	----	----	
		Master		-50.000	-0.039	50.000	
		Before		-50.000	-0.069	50.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.030	----	
SPA Plus	mV	After-Before	----	----	----	----	
		Master		941.000	993.080	1040.000	
		Before		941.000	993.554	1040.000	
		After	----	----	----	----	
		Before-Master	----	----	0.474	----	
Temperature Zero	V	After-Before	----	----	----	----	
		Master		-0.050	0.000	0.050	
		Before		-0.050	0.000	0.050	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
Temperature Plus	V	After-Before	----	----	----	----	
		Master		0.870	0.920	0.960	
		Before		0.870	0.920	0.960	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
		Master					
		Before					
		After	----	----	----	----	
		Before-Master	----	----			
		After-Before	----	----	----	----	
		Master					
		Before					
		After	----	----	----	----	
		Before-Master	----	----			
		After-Before	----	----	----	----	
		Master					
		Before					
		After	----	----	----	----	
		Before-Master	----	----			

HDRS-B (HILT Density and Rxo Sonde, 125 degC) Calibration - Run 1

Primary Equipment :		
HILT High-Resolution Control Cartridge, 125 degC	HRCC-B	860
15 kpsi, tungsten shielding	HRGD-B	1748
Auxiliary Equipment :		
HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5094
HILT High-Resolution Control Cartridge, 125 degC	HRCC-B	860
HRMS, 125 degC, 10 kpsi	HRMS-B	1716
Calibration Parameter :		
Small Ring Size (Caliper Calibration Small Ring)	8.00	
Large Ring Size (Caliper Calibration Large Ring)	12.00	

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured):		10:54:59 01-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	9.61	10.00	
Large Ring	in	Before	12.00	9.00	13.77	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM):		13:21:00 25-Nov-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.596	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.689	1.696	
Pe Aluminum		Master	2.570	2.470	2.577	2.670	
Pe Magnesium		Master	2.650	2.550	2.612	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM):		13:21:00 25-Nov-2013					
------------------	--	----------------------	--	--	--	--	--

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.3670	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.8096	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.4693	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.0022	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.5991	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.2233	3.5000	
HDRS Density Calibration - Background Summary							
Master (EEPROM):		13:21:00 25-Nov-2013		Before (Measured):		10:55:18 01-Dec-2013	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7294		
		Before	0.7294	0.6929	0.7313	0.7658	
		Before-Master	-----	-----	0.0019	-----	
BS Window Sum	1/s	Master	1		9100		
		Before	9100	8645	9099	9555	
		Before-Master	-----	-----	-1	-----	
SS Window Ratio		Master	1.0000		0.4784		
		Before	0.4784	0.4545	0.4788	0.5023	
		Before-Master	-----	-----	0.0004	-----	
SS Window Sum	1/s	Master	1		8979		
		Before	8979	8530	8974	9428	
		Before-Master	-----	-----	-5	-----	
LS Window Ratio		Master	1.0000		0.2932		
		Before	0.2932	0.2785	0.2886	0.3079	
		Before-Master	-----	-----	-0.0046	-----	
LS Window Sum	1/s	Master	1		999		
		Before	999	949	987	1049	
		Before-Master	-----	----	-12	-----	
HDRS Density Calibration - Photo-multiplier High Voltages							
Master (EEPROM):		13:21:00 25-Nov-2013		Before (Measured):		10:55:18 01-Dec-2013	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1688	2400	
		Before		1000	1684	2400	
		Before-Master	-----	-100	-4	100	
SS PM High Voltage	V	Master		1000	1486	2400	
		Before		1000	1486	2400	
		Before-Master	-----	-100	0	100	
LS PM High Voltage	V	Master		1000	1546	2400	
		Before		1000	1552	2400	
		Before-Master	-----	-100	6	100	
HDRS Density Calibration - Crystal Quality Resolutions							
Master (EEPROM):		13:21:00 25-Nov-2013		Before (Measured):		10:55:18 01-Dec-2013	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	11.50	25.00	
		Before		5.00	11.40	25.00	
		Before-Master	-----	-1.00	-0.10	1.00	
SS Crystal Resolution	%	Master		5.00	10.17	20.00	
		Before		5.00	10.40	20.00	
		Before-Master	-----	-1.00	0.23	1.00	
LS Crystal Resolution	%	Master		5.00	8.80	20.00	
		Before		5.00	8.92	20.00	
		Before-Master	-----	-1.00	0.12	1.00	
HDRS MCFL Calibration - MCFL Accumulations							
Before (Measured):		10:56:18 01-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3865	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3804	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3664	4136	
HGNS-B (HILT Gamma-Ray and Neutron Sonde, 125 degC) Calibration - Run 1							
Primary Equipment :							
HILT Gamma-Ray and Neutron Sonde, 125 degC			HGNS-B			1927	

Auxiliary Equipment :

HGNS Accelerometer, 125 degC

HACCZ-B

749

AmBe Neutron Logging Source

NSR-F

5069

Calibration Parameter :

Water Temperature

Housing Size

JIG-BKG (Jig minus background reference)

165

HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured): 22:12:36 01-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	ft/s2	Before	32.2	31.5	32.2	32.8	

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM): 00:00:00 15-Mar-2001

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			Sunstrand		
Accelerometer Reference Temperature	degF	Master		30.2	68.0	122.0	
Accelerometer Coefficients - 0		Master	----	----	-5693.000	----	
Accelerometer Coefficients - 1		Master	----	----	20.390	----	
Accelerometer Coefficients - 2		Master	----	----	-0.031	----	
Accelerometer Coefficients - 3		Master	----	----	0.000	----	
Accelerometer Coefficients - 4		Master	----	----	2.141	----	
Accelerometer Coefficients - 5		Master	----	----	0.000	----	
Accelerometer Coefficients - 6		Master	----	----	0.000	----	
Accelerometer Coefficients - 7		Master	----	----	0.000	----	
Accelerometer Coefficients - 8		Master	----	----	295.800	----	
Accelerometer Coefficients - 9		Master	----	----	1.031	----	

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 15:24:08 10-Oct-2013 Before (Measured): 10:53:00 01-Dec-2013 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	26.3	40.0	
		Before	0	5.0	27.9	40.0	
		After	----	----	----	----	
		Before-Master	----	-3.9	1.6	3.9	
		After-Before	----	----	----	----	
Far Zero Measurement	1/s	Master	0	5.0	27.9	40.0	
		Before	0	5.0	26.0	40.0	
		After	----	----	----	----	
		Before-Master	----	-4.2	-1.9	4.2	
		After-Before	----	----	----	----	
Near Plus Measurement	1/s	Master	6031.0	4700.0	4928.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Plus Measurement	1/s	Master	2793.0	1900.0	2044.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Near Corrected Plus Measurement	1/s	Master		4700.0	4952.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Corrected Plus Measurement	1/s	Master		1900.0	2048.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured): 10:56:03 01-Dec-2013

After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	84.4	120.0	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before	185.4	157.1	175.6	206.3	
		After			NOT DONE		
		After-Before	----	----	----	----	
GR Calibration Gain		Before	0.89	0.80	0.94	1.05	
		After	----	----	----	----	
		After-Before	----	----	----	----	

Company:	Bayswater Exploration and Production LLC	Schlumberger
Well:	Swan 21-44	
Field:	Swan	
County:	Washington	
State:	Colorado	
Platform Express		
Triple Combo		