

Company: Vecta Oil & Gas Ltd

Well: Snowmass 44-32

Field: Wildcat

County: Cheyenne

Country: USA

Platform Express	
Triple Combo	
County: Cheyenne	
Field: Wildcat	
Location: Lot 16, Sec. 32, Twn.12S, Rng. 47W	
Well: Snowmass 44-32	
Company: Vecta Oil & Gas Ltd	
Location:	Lot 16, Sec. 32, Twn. 12S, Rng. 47W
	SHL: 689' FSL & 643' FEL
	Lat/Long: 38.955540/-102.688810
	Elev.: K.B. 4528.00 ft G.L. 4517.00 ft D.F. 4527.00 ft
Permanent Datum:	Ground Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
API Serial No.	Max.Hole Deviation
05-017-07725-00	0 deg
	Longitude: -102.68881 degrees
	Latitude: 38.955540 degrees

Logging Date	20-Oct-2012	
Run Number	Run 1	
Depth Driller	5858.00 ft	
Schlumberger Depth	5852.00 ft	
Bottom Log Interval	5852.00 ft	
Top Log Interval	427.00 ft	
Casing Driller Size @ Depth	8.625 in @ 434.00 ft	
Casing Schlumberger	427 ft	
Bit Size	7.875 in	
Type Fluid In Hole	Chemical Gel	
Density	Viscosity	62 s
Fluid Loss	PH	8
Source of Sample		
RM @ Meas Temp	1.6 ohm.m	@ 60.6 degF
RMF @ Meas Temp	1.2 ohm.m	@ 60.6 degF
RMC @ Meas Temp	2 ohm.m	@ 60.6 degF
Source RMF	RMC	Calculated
RM @ BHT	RMF @ BHT	0.71 @ 145 0.53 @ 145
Max Recorded Temperatures		
Circulation Stopped	Time	02:00:00
Logger on Bottom	Time	19:26:42
Unit Number	Location:	Ft. Morgan
Recorded By	Stan, Arvin, Megan	
Witnessed By	Ryan Scribner	

Disclaimer

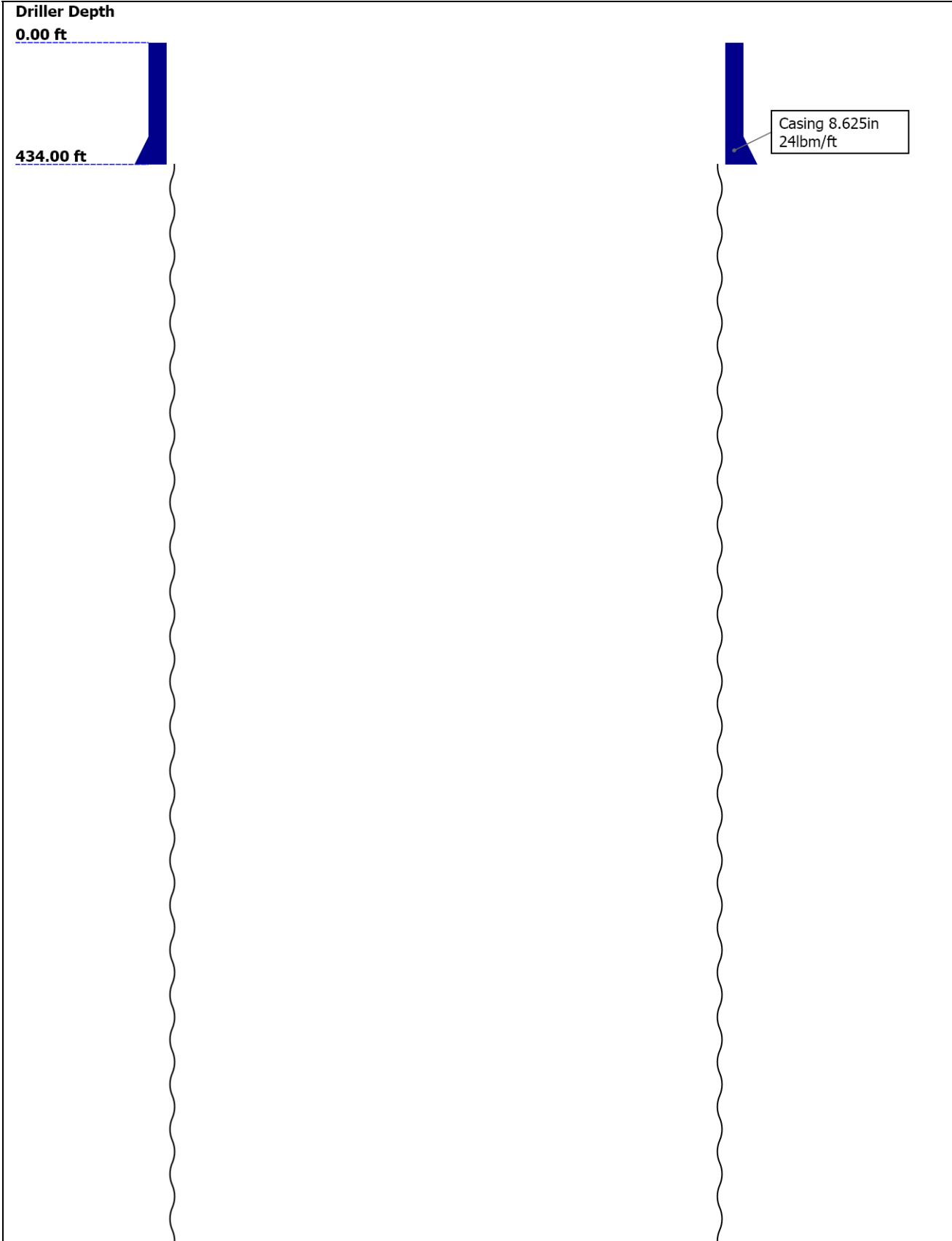
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Well Sketch





Borehole Size/Casing/Tubing Record						
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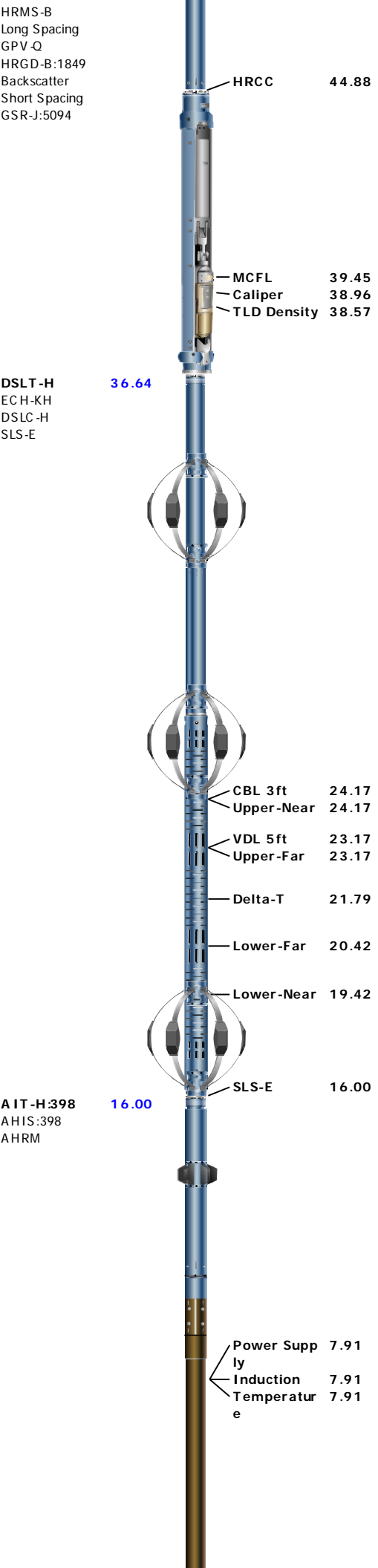
Bit						
Bit Size (in)	7.875					
Top Driller (ft)	434					
Top Logger (ft)	427					
Bottom Driller (ft)	5858					
Bottom Logger (ft)	5852					
Casing						
Size (in)	8.625					
Weight (lbm/ft)	24					
Inner Diameter (in)	8.099					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	434					
Bottom Logger (ft)	427					

Operational Run Summary						
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Parameter (unit)	Run 1					
Date Log Started	20-Oct-2012					
Time Log Started	08:45:30					
Date Log Finished	20-Oct-2012					
Time Log Finished	21:22:59					
Top Log Interval (ft)	427.00					
Bottom Log Interval (ft)	5852.00					
Total Depth (ft)	5858.00					
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	7.875					
Logging Unit Number	3022					
Logging Unit Location	Ft. Morgan					
Recorded By	Stan, Arvin, Megan					
Witnessed By	Ryan Scribner					
Service Order Number	C6VJ-00026					

Borehole Fluids						
Parameter(unit)	Run 1					
Fluid Type	Water					
Fluid Name	Chemical Gel					
Max Recorded Temperatures (degF)	145					
Source of Sample	Flowline					
Salinity (ppm)	500					
Density (lbm/gal)	9.2					
Funnel Viscosity (s)	62					
Fluid Loss (cm3)	7.2					
PH	8					
Date/Time Circulation Stopped	20-Oct-2012 02:00:00					
Date Logger on Bottom	20-Oct-2012					
Time Logger on Bottom	19:26:42					
Source RMF						
RMC	Calculated					
RM @ Meas Temp (ohm.m@degF)	1.6 @ 60.6					
RMF @ Meas Temp (ohm.m@degF)	1.2 @ 60.6					
RMC @ Meas Temp (ohm.m@degF)	2 @ 60.6					
RM @ BHT (ohm.m@degF)	0.71 @ 145					
RMF @ BHT (ohm.m@degF)	0.53 @ 145					
RMC @ BHT (ohm.m@degF)	0.89 @ 145					
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary				
Run 1: Toolstring				Run 1: Remarks
Equip name	Length	MP name	Offset	Toolstring run as per tool sketch.
LEH-QT LEH-QT	64.21			
DTC-H ECH-KC DTC-H	61.29	CTEM HV	60.39 0.00	
HGNS-B HGNH NPV-N NSR-F :5069 HGNS-B HACCZ-B:749 HMCA-B	58.29	TelStatus ToolStatus Temperature GR	58.29 58.29 58.26 57.55	
		CNL Porosity HMCA HGNS Accelerometer	51.21 48.88 48.88 0.00	
HDRS-B ECH-MEB HRCC-B	48.88			





SP 0.08
Mud Resistivity 0.00
Head Tension
TOOL_ZERO

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

Depth Control Parameters	Run 1		
Conveyance Type	Wireline		
Log Sequence	Run 1		
Depth Remark Parameters	Run 1		
Depth Remark 1	All Schlumberger depth procedures followed.		
Depth Remark 2	IDW as primary depth reference, Z-chart as secondary depth reference.		
Depth Measuring Device	Run 1		
Type	IDW-B		
Calibration Date	02-Oct-2012		
Calibrator Serial Number	78135a		
Calibration Cable Type	7-39P LXS		
Wheel Correction 1	1		
Wheel Correction 2	0		
Tension Device	Run 1		
Type	CMTD-B/A		
Serial Number	1109		
Calibration Date	02-Oct-2012		
Calibrator Serial Number	78135a		
Calibration Points	10		
Calibration RMS	6		
Calibration Peak Error	10		
Logging Cable	Run 1		
Type	7-39P-LXS		
Serial Number	A711075		
Logging Cable Length (ft)	16000.00		

Run 1

5" Triple Combo

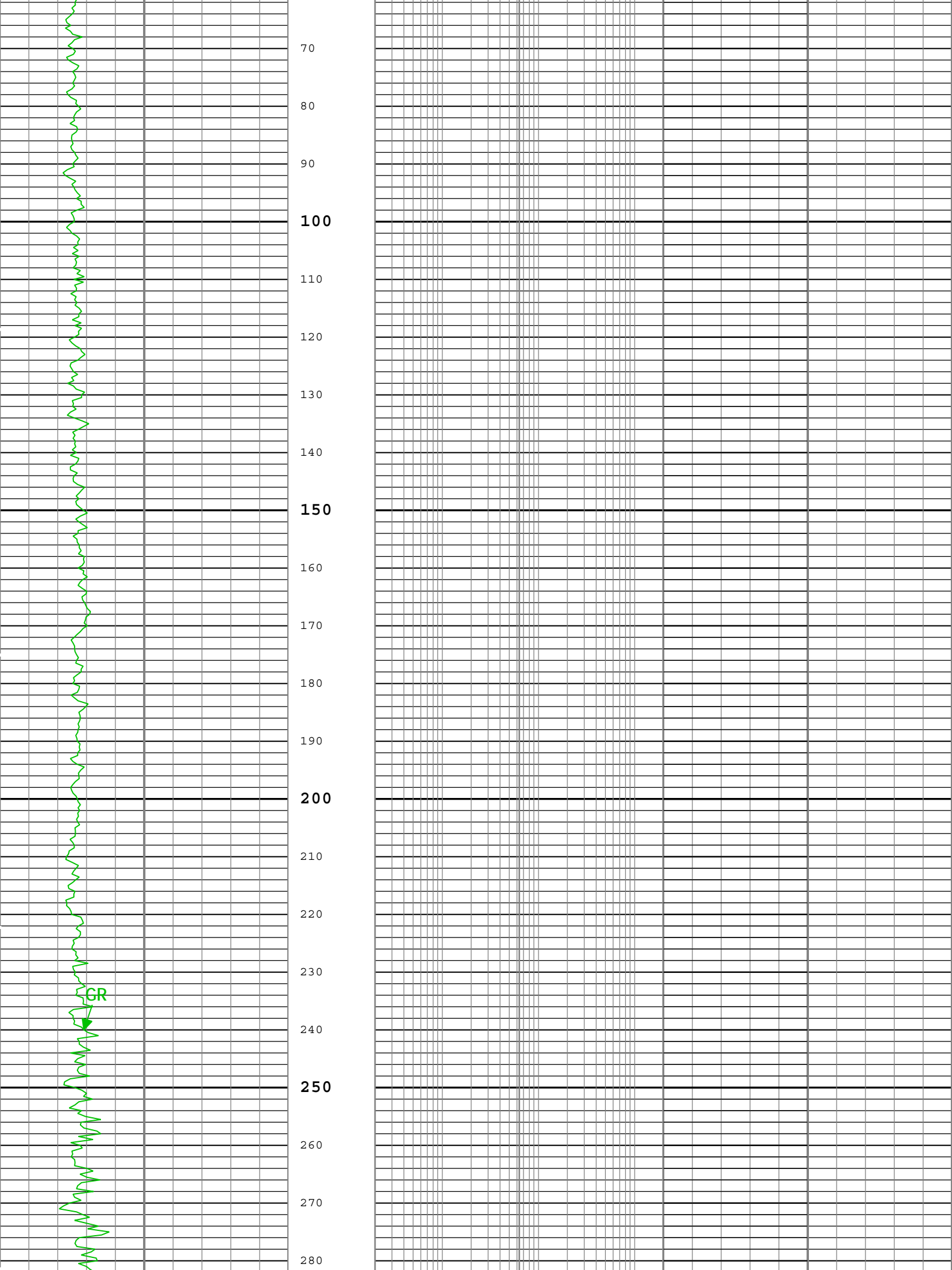
Integration Summary

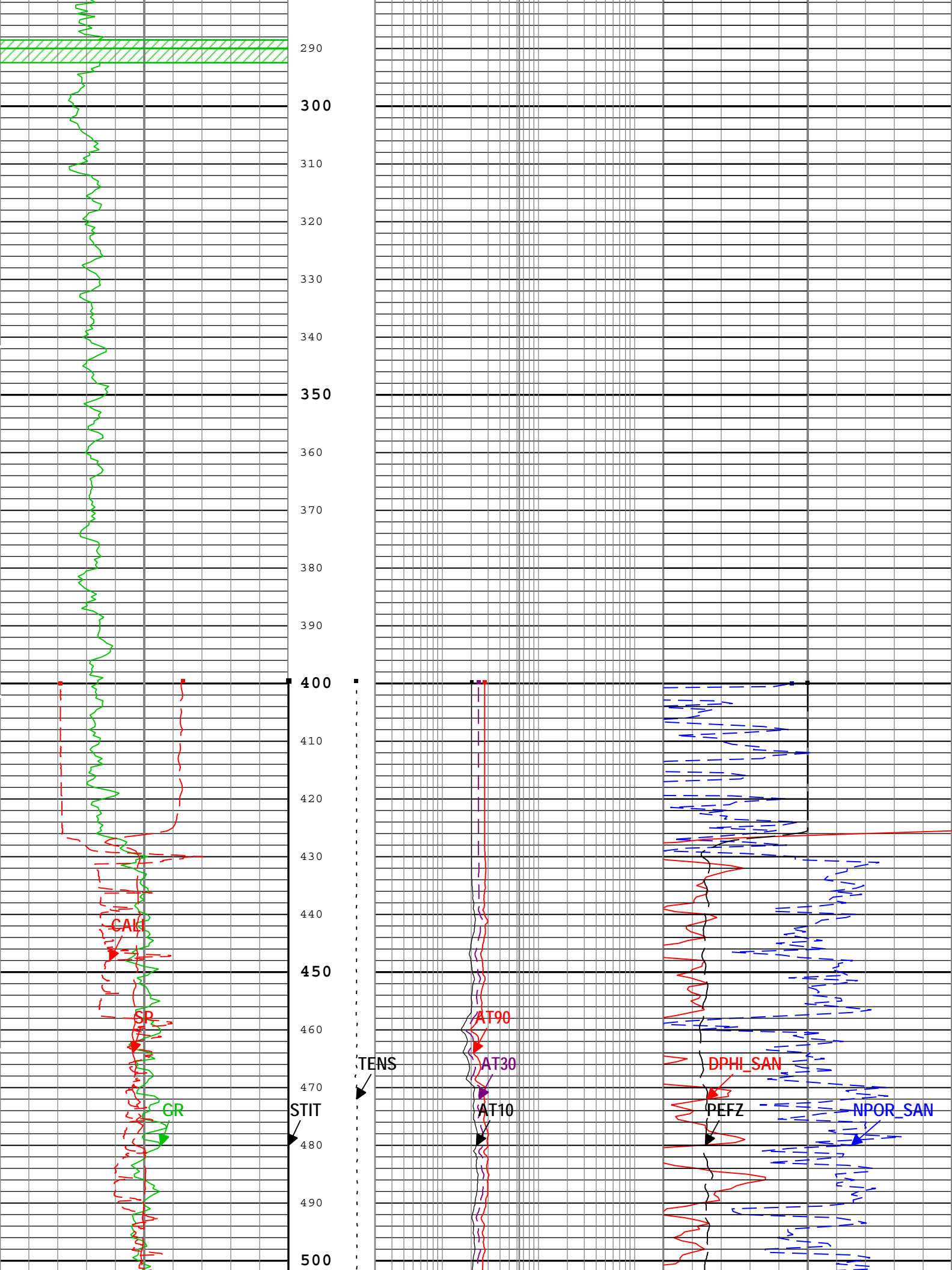
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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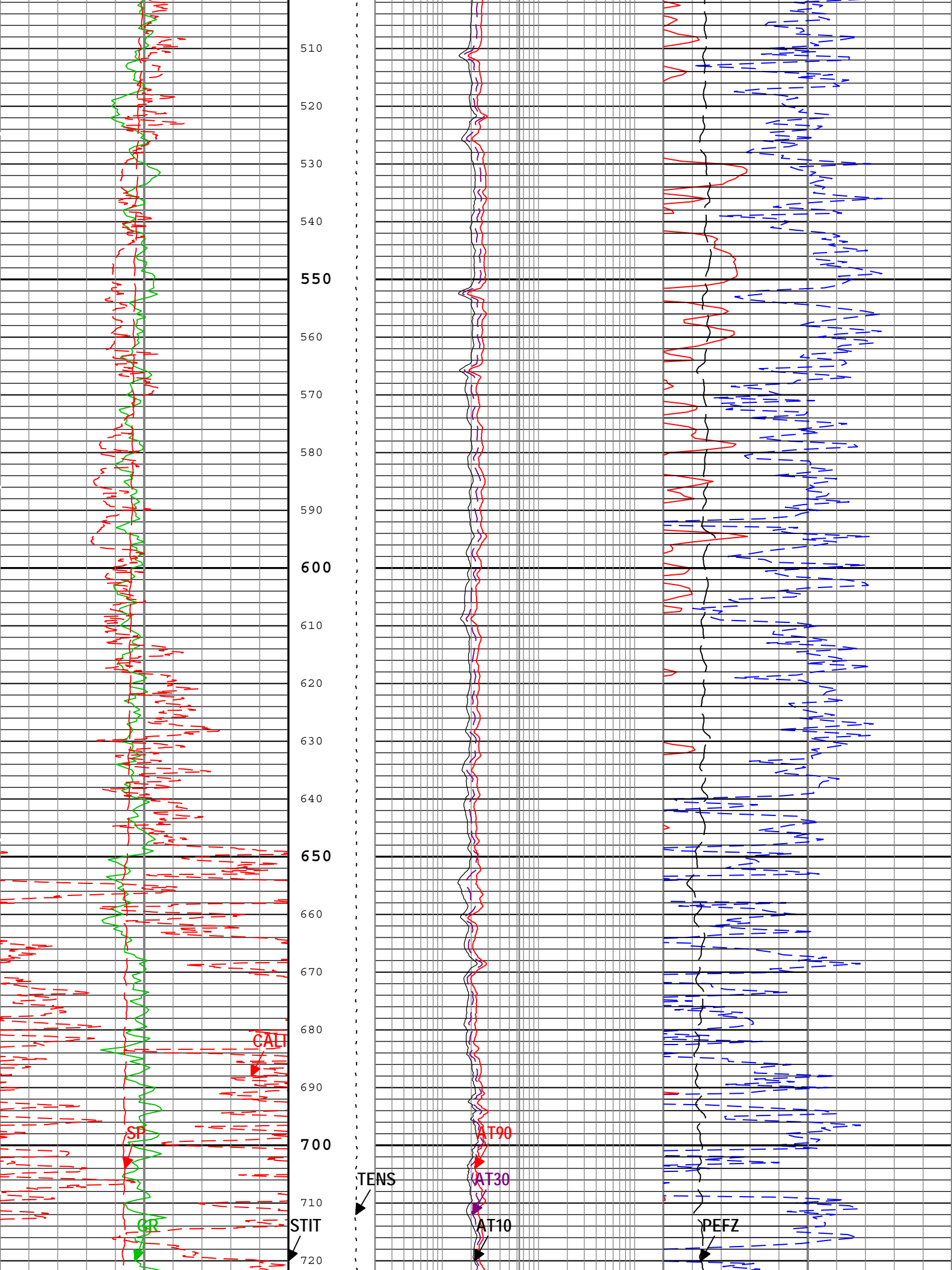
Software Version

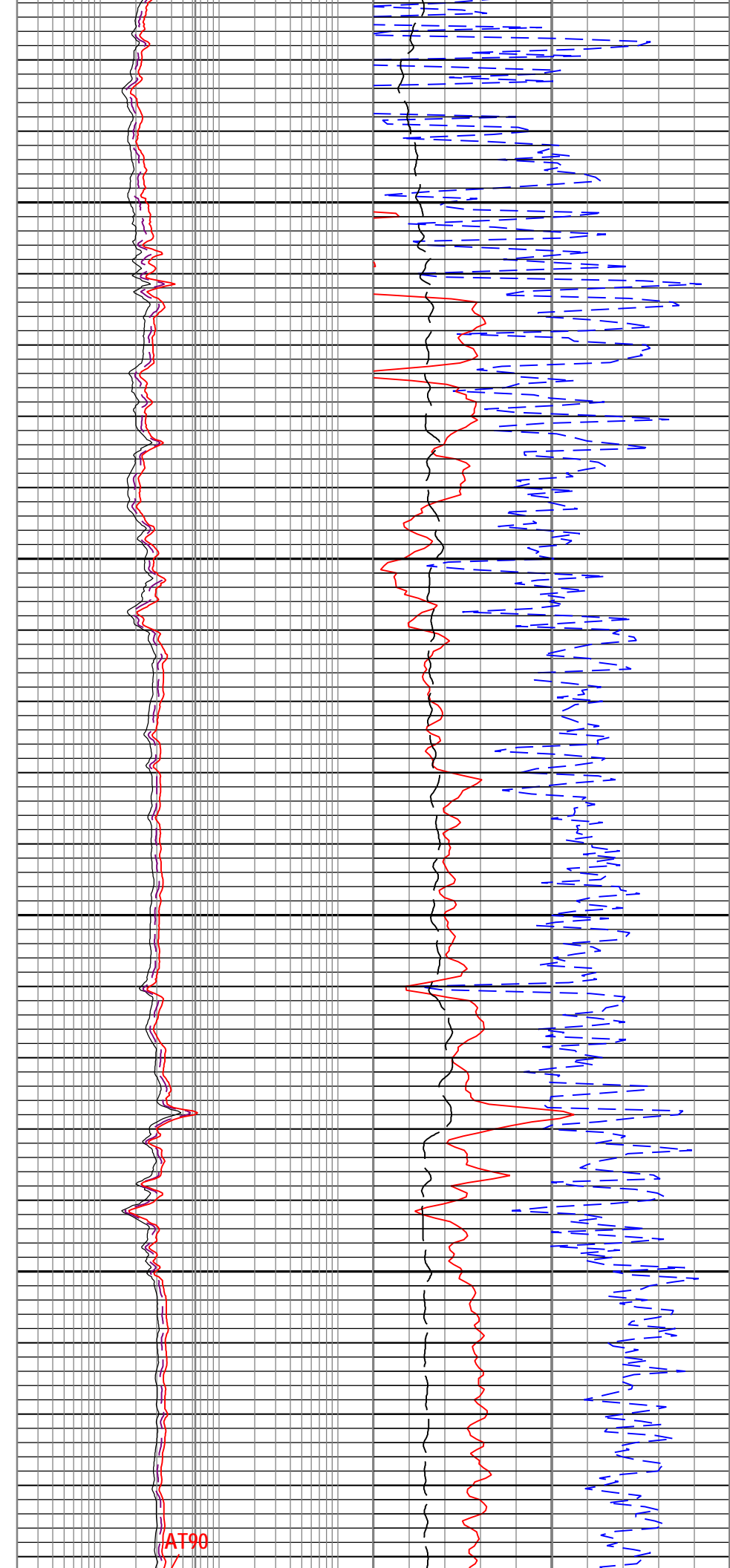
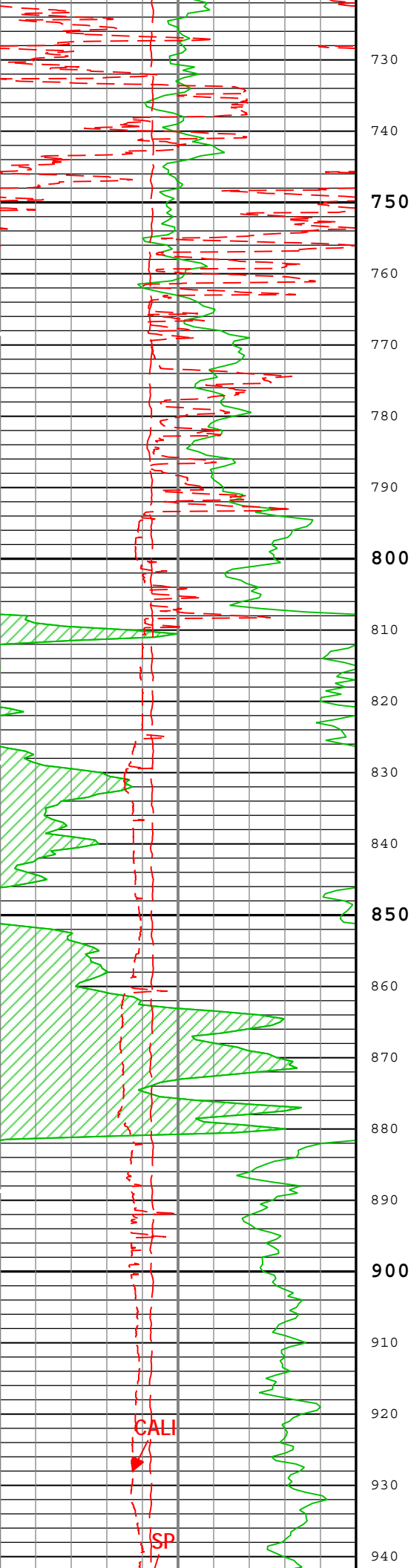
Acquisition System		Version
MaxWell		3.1.9755.0
Application Patch		SP-20120723-3.1.9755.1112
		EXP_APL-MASTAXIS-3.1.9755.1221
Computation	Description	Version
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections	3.1.9755.0
DepthCorrection	DepthCorrection	3.1.9755.0

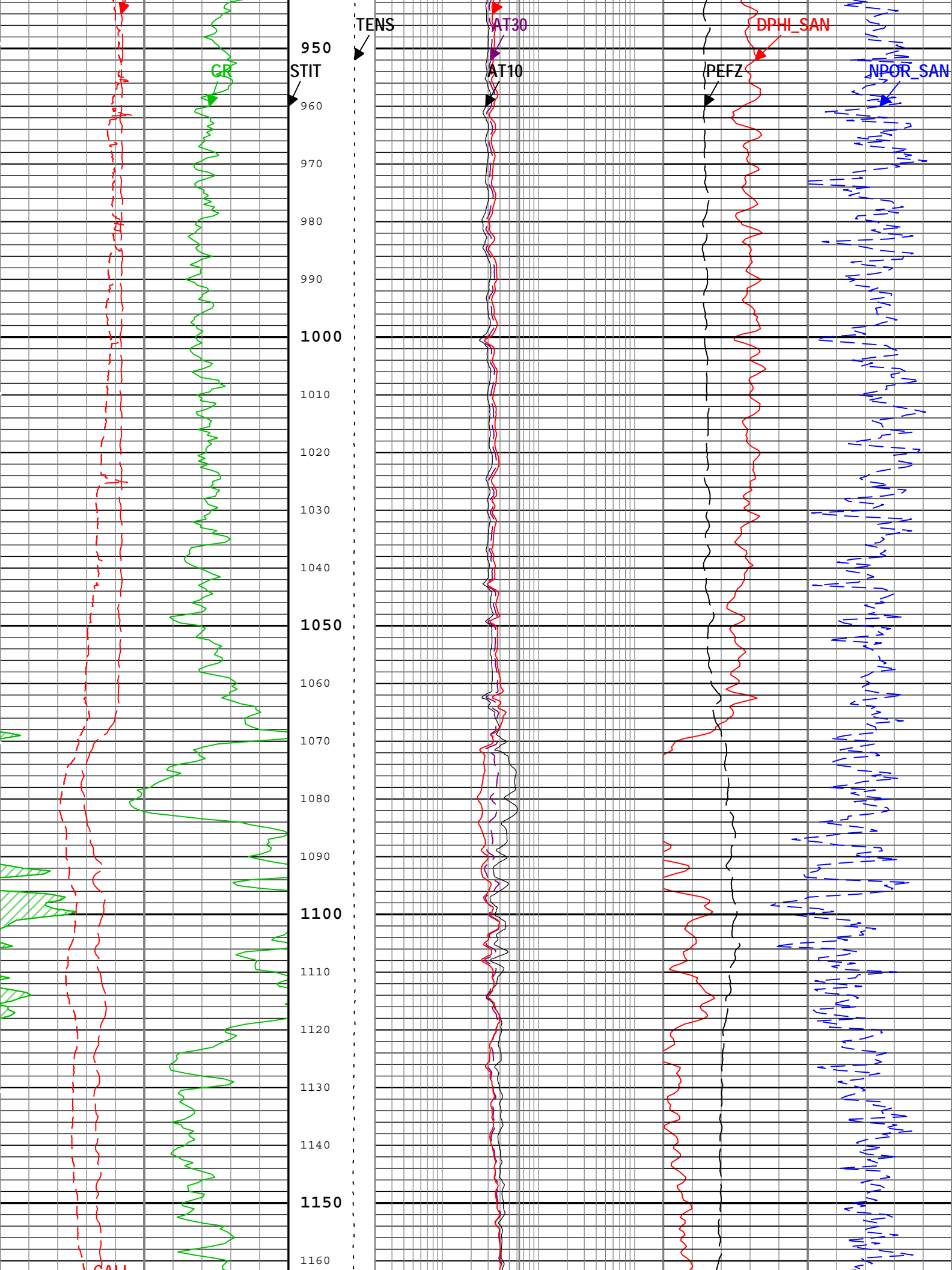
Tool Elements		Description				Software Version		Firmware Version	
HRGD-B		HILT Resistivity Gamma-Ray Density Device, 125 degC				3.1.9755.0		3.0	
AHIS		Array Induction Sonde - H				3.1.9755.1112			
HGNS-B		HILT Gamma-Ray and Neutron Sonde, 125 degC				3.1.9755.0		2.0	
HRCC-B		HILT High-Resolution Control Cartridge, 125 degC				3.1.9755.0		2.0	
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data	
Run 1	Log[5]:Up	Up	86.55 ft	5872.33 ft	20-Oct-2012 7:17:25 PM	20-Oct-2012 9:22:44 PM	7.00 ft		
All depths are referenced to toolstring zero									
Log	Run 1: Log[5]:Up								
Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo) Index Scale: 5 in per 100 ft Index Unit: ft									
Index Type: Measured Depth Creation Date: 20-Oct-2012 22:21:22									
Channel	Source	Sampling							
AT10	AIT-H:AHIS:AHIS	3in							
AT30	AIT-H:AHIS:AHIS	3in							
AT90	AIT-H:AHIS:AHIS	3in							
CALI	HDRS-B:HRCC-B:HRCC-B	1in							
DPHI_SAN	HDRS-B:HRMS-B:HRGD-B	6in							
GR	HGNS-B:HGNS-B:HGNS-B	6in							
NPOR_SAN	HGNS-B:HGNS-B:HGNS-B	6in							
PEFZ	HDRS-B:HRMS-B:HRGD-B	2in							
SP	AIT-H:AHIS:AHIS	6in							
STIT	DepthCorrection	6in							
TENS	WLWorkflow	6in							
TIME_1900	WLWorkflow	0.1in							
TIME_1900 - Time Marked every 60.00 (s)									
						Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-B			
						010			
			Array Induction Two Foot Resistivity A10 (AT10) AIT-H			Gas Effect			
Gamma Ray Back up			0.2ohm.m200			NPOR Backup			
Gamma Ray (GR) HGNS-B			Array Induction Two Foot Resistivity A30 (AT30) AIT-H			Enhanced Thermal Neutron Porosity (matrix Sandstone) (NPOR_SAN) HGNS-B			
0gAPI200			0.2ohm.m200			0.3ft3/ft3-0.1			
Spontaneous Potential (SP) AIT-H			Array Induction Two Foot Resistivity A90 (AT90) AIT-H			Density Porosity (matrix Sandstone) (DPHI_SAN) HDRS-B			
0mV200			0.2ohm.m200			0.3ft3/ft3-0.1			
Caliper (CALI) HDRS-B									
6in16									

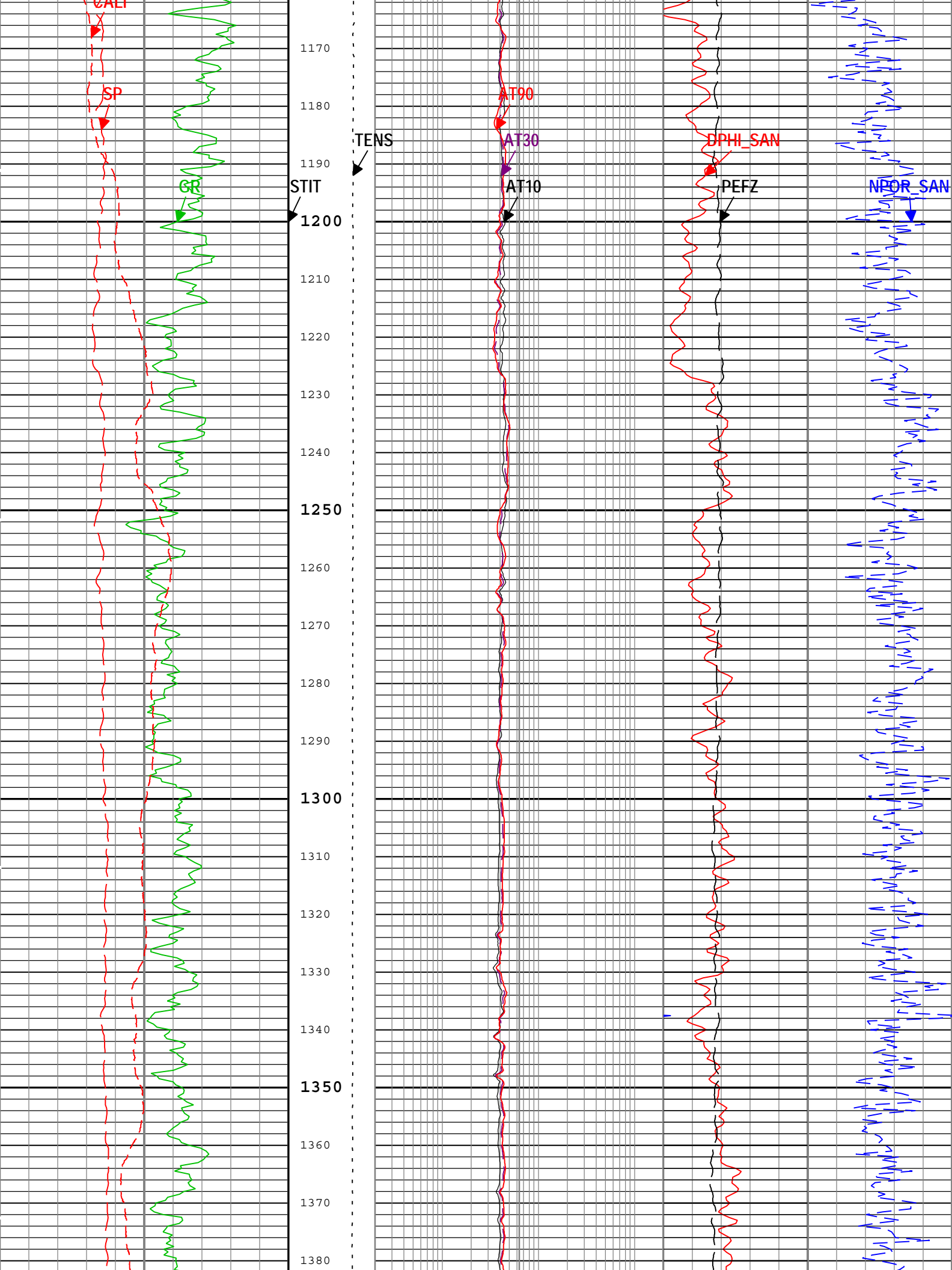


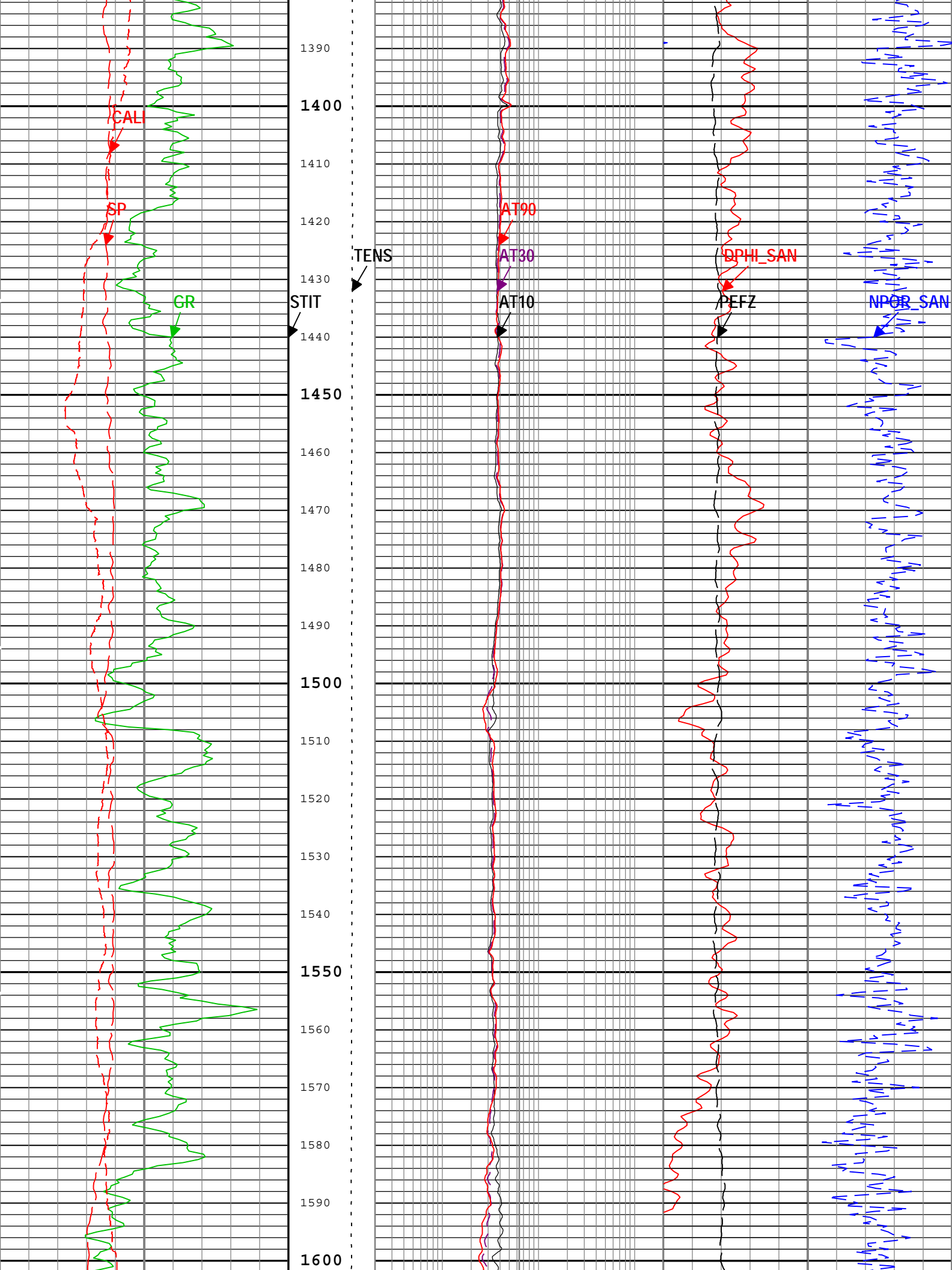


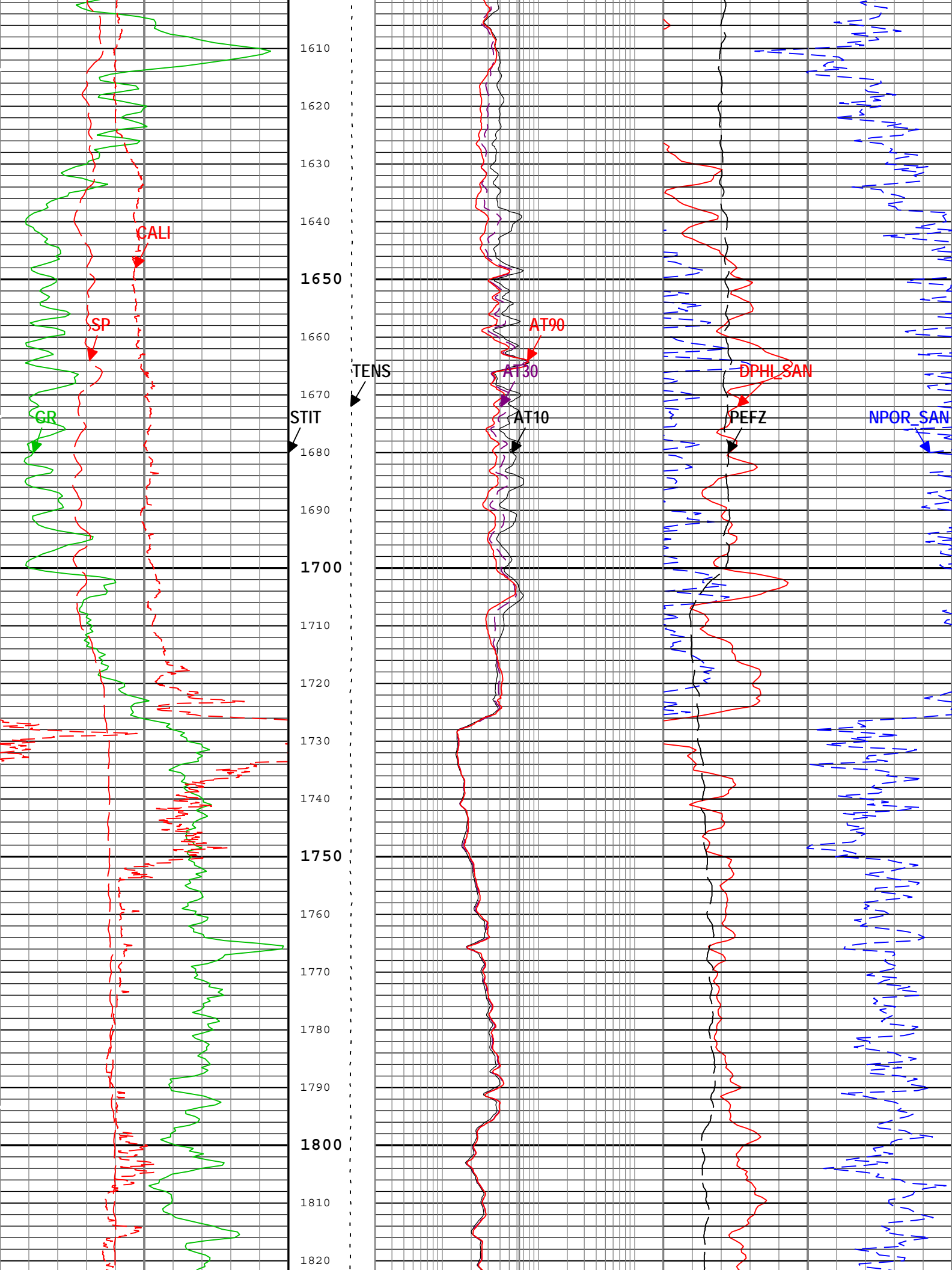


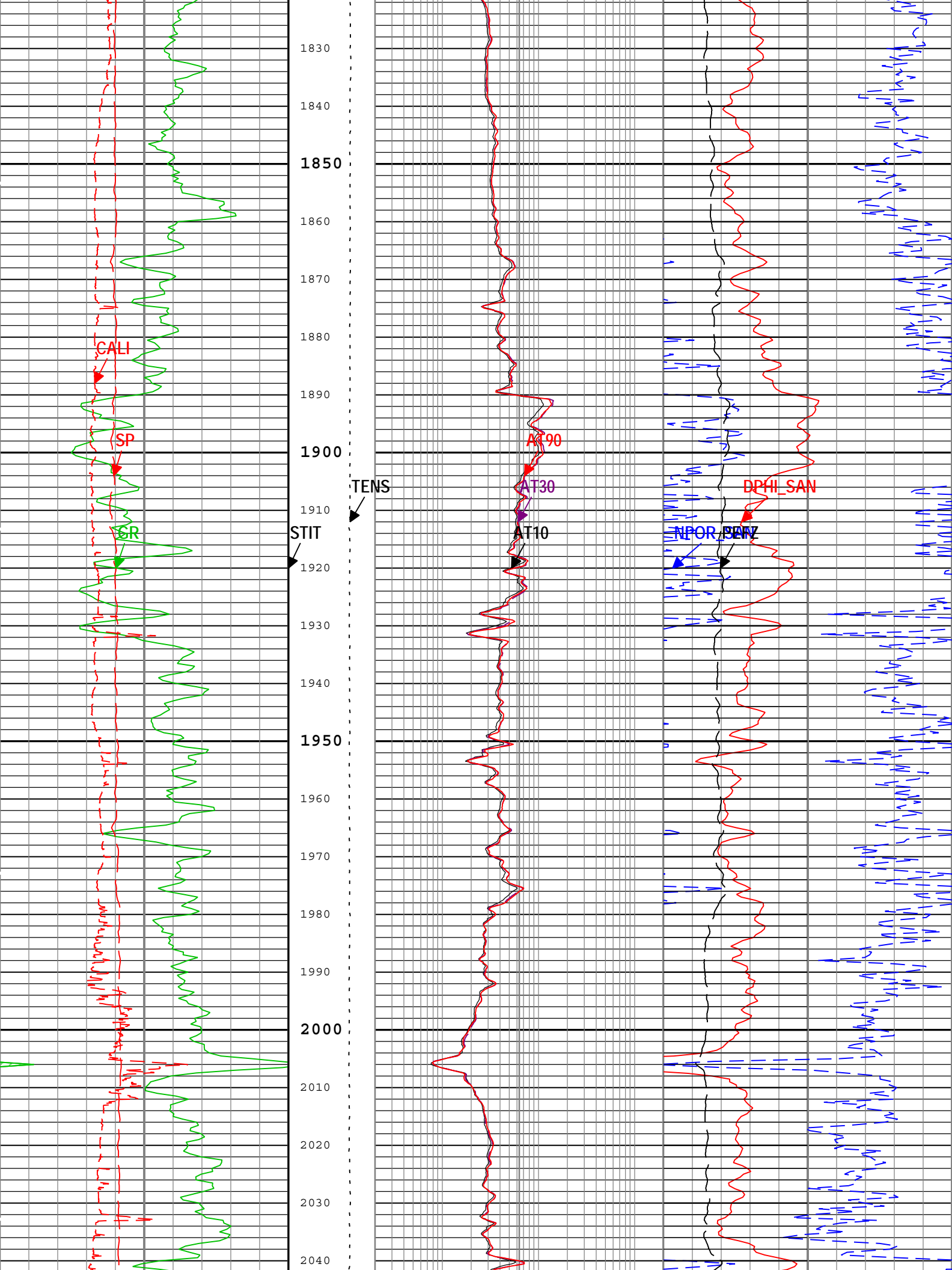


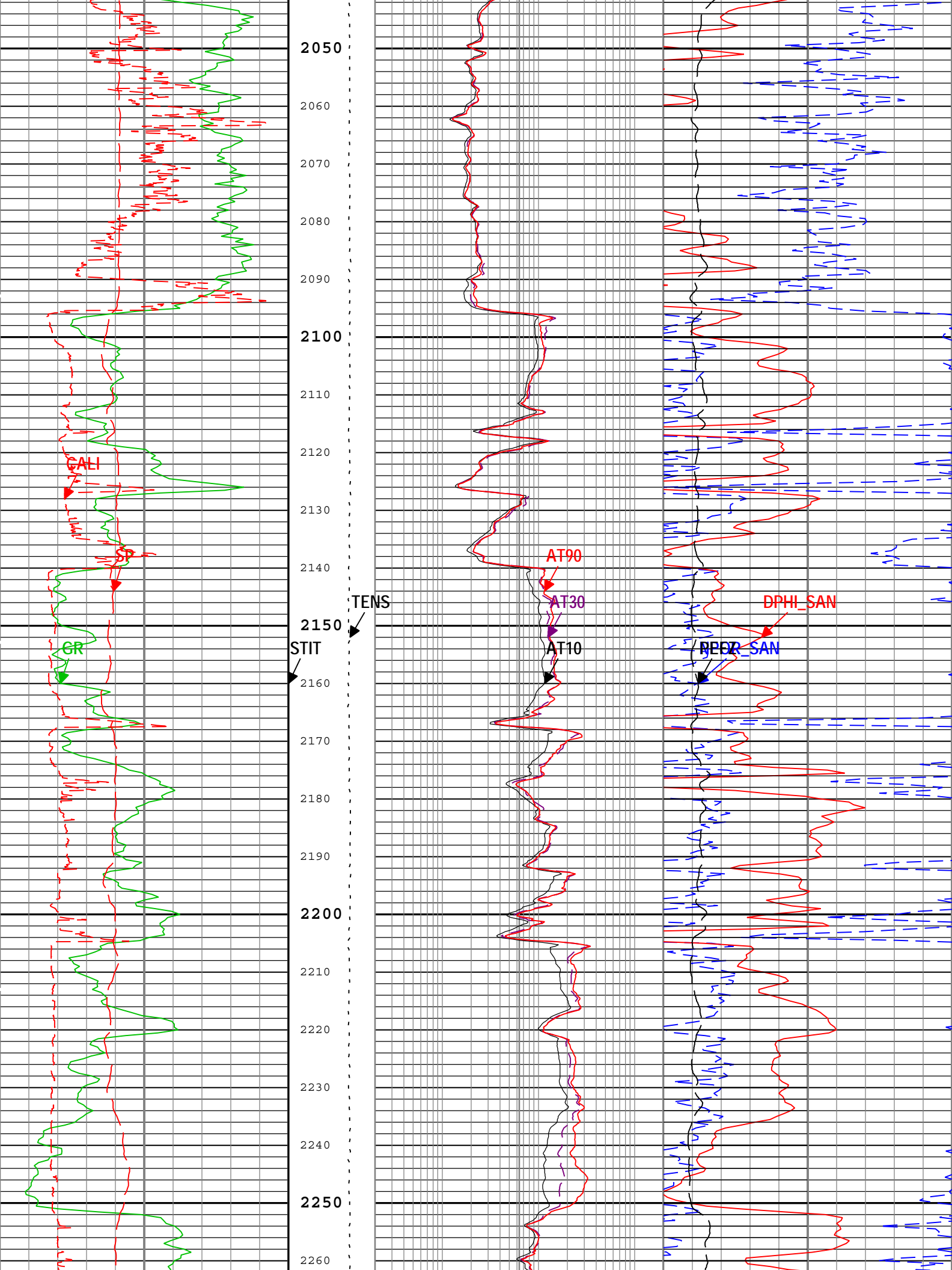


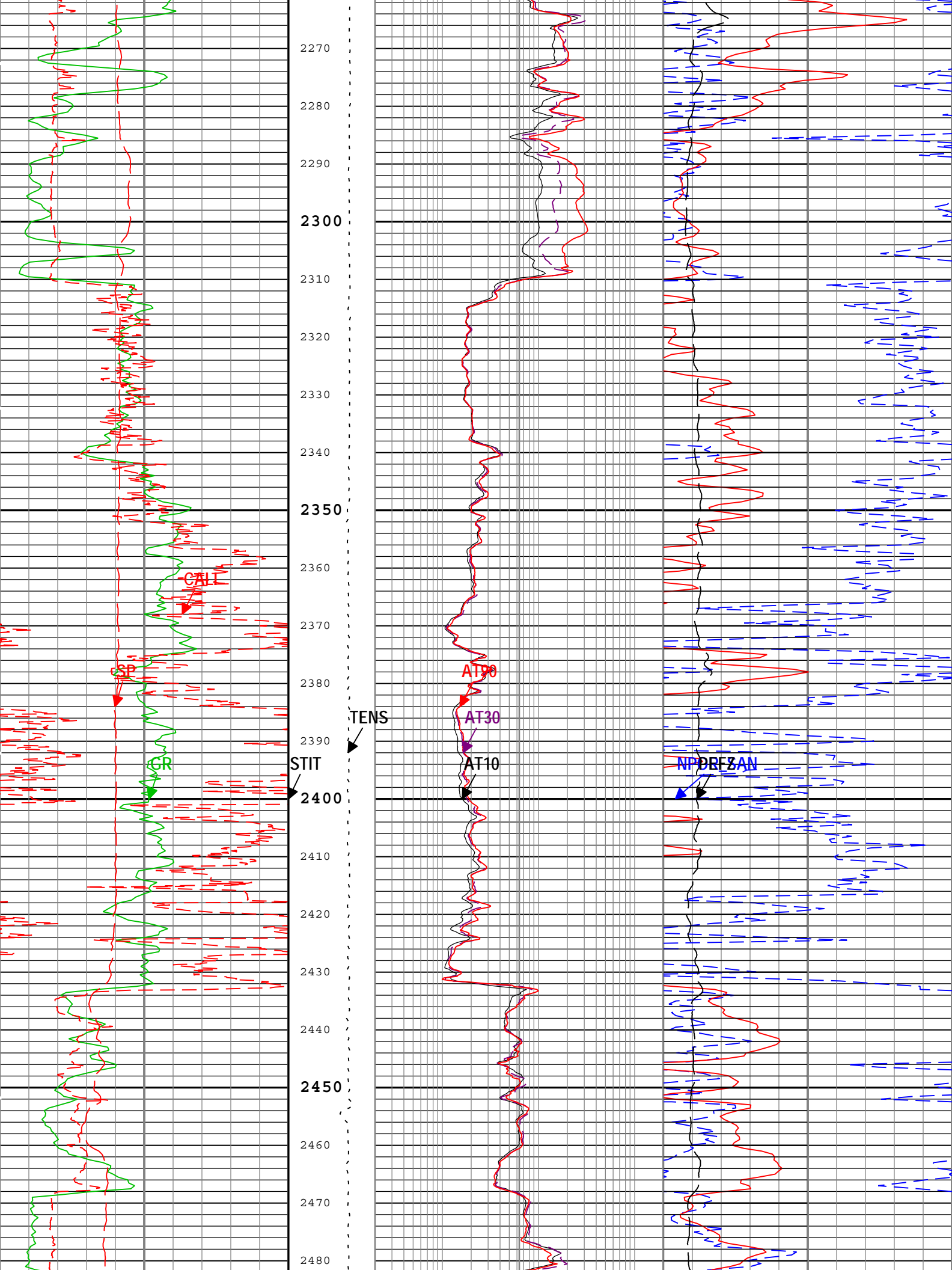


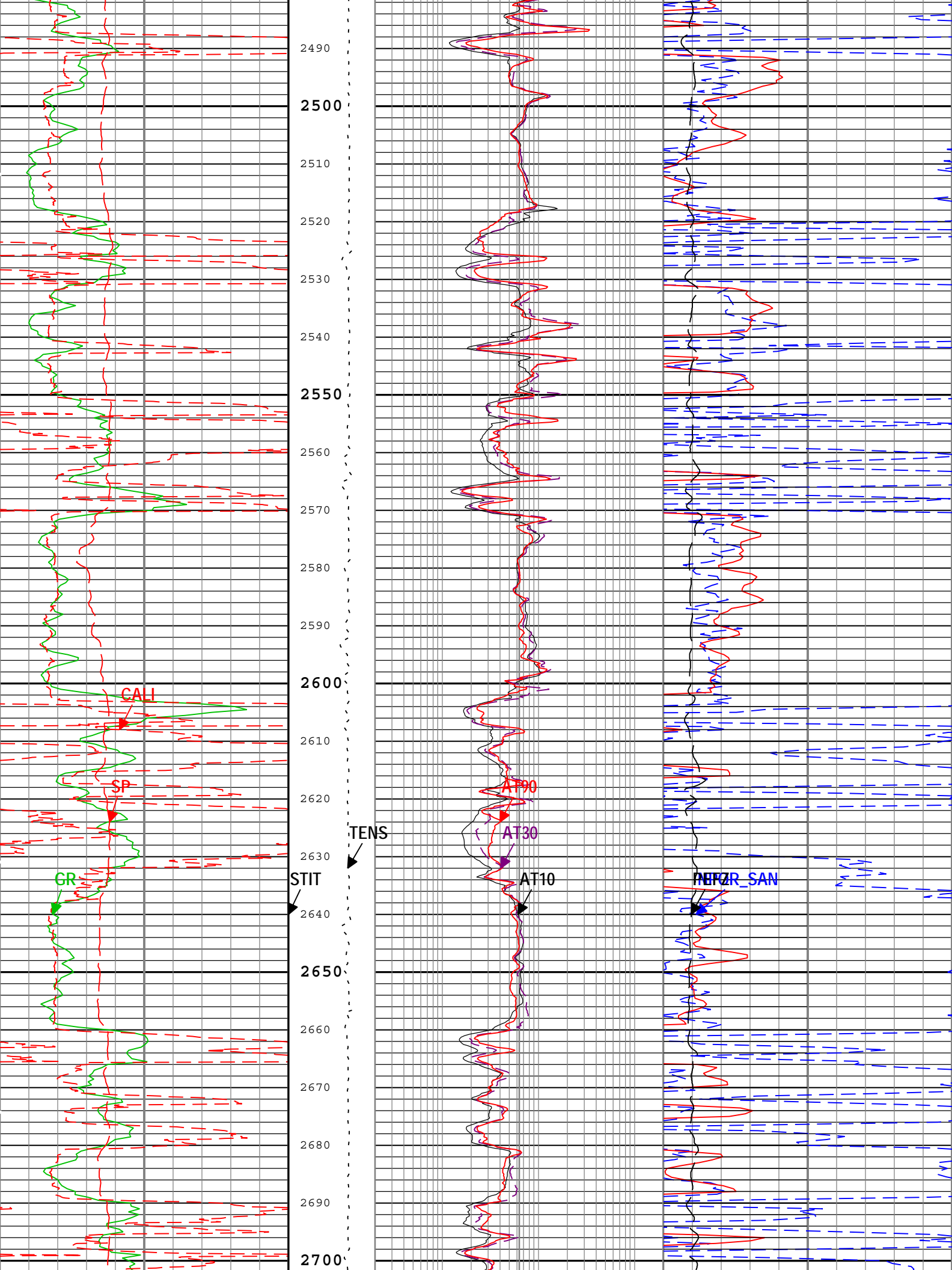


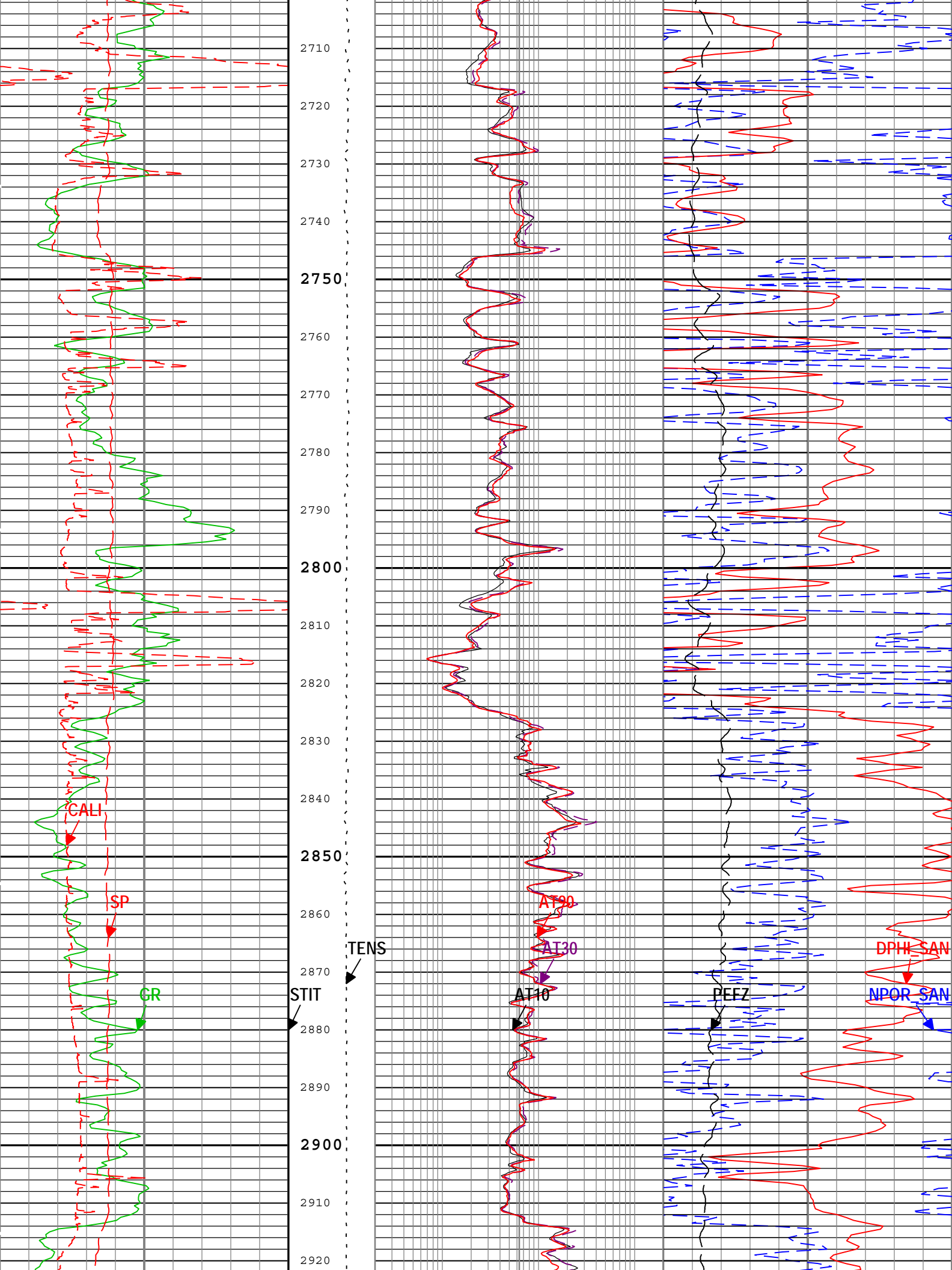


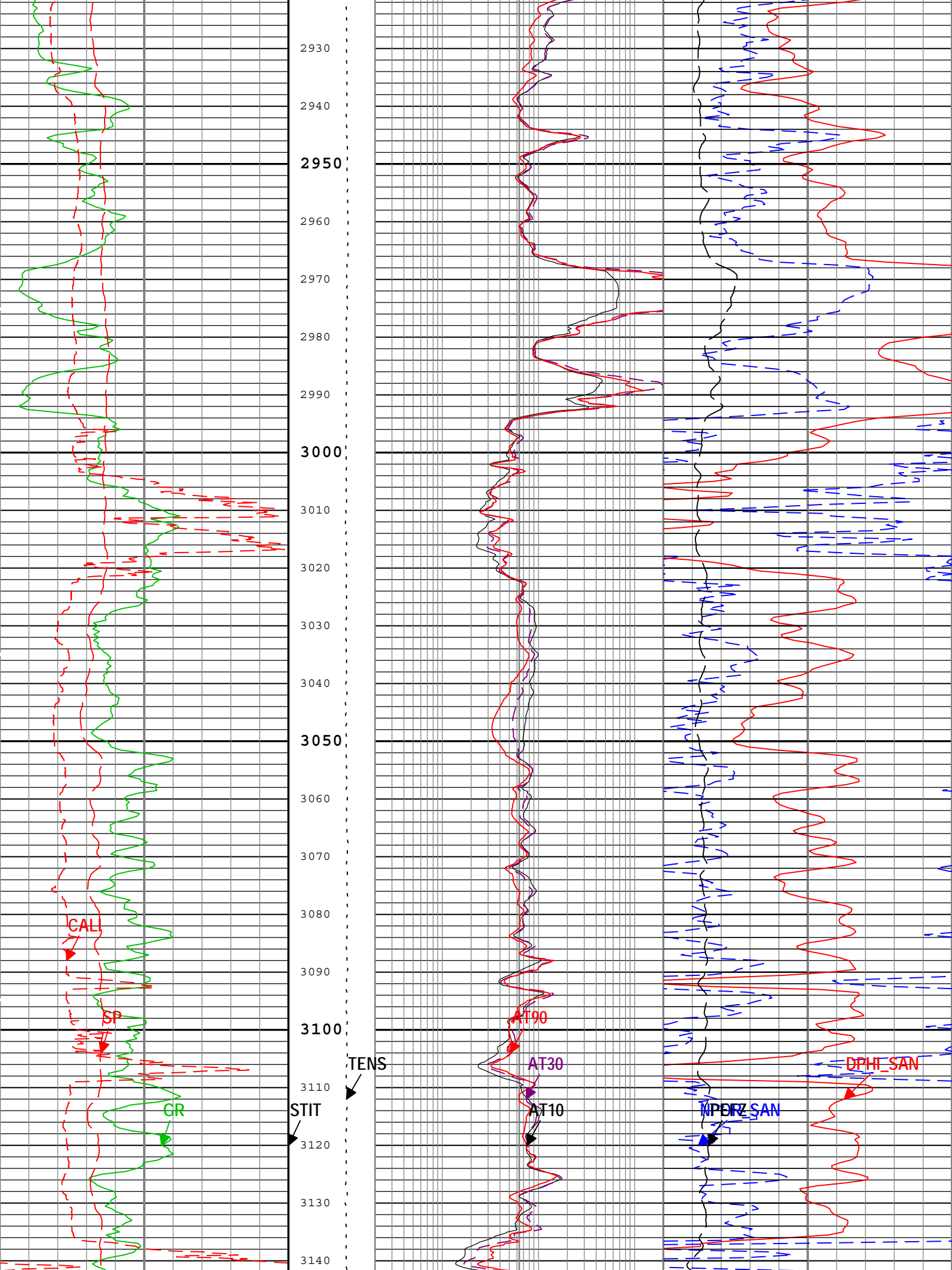


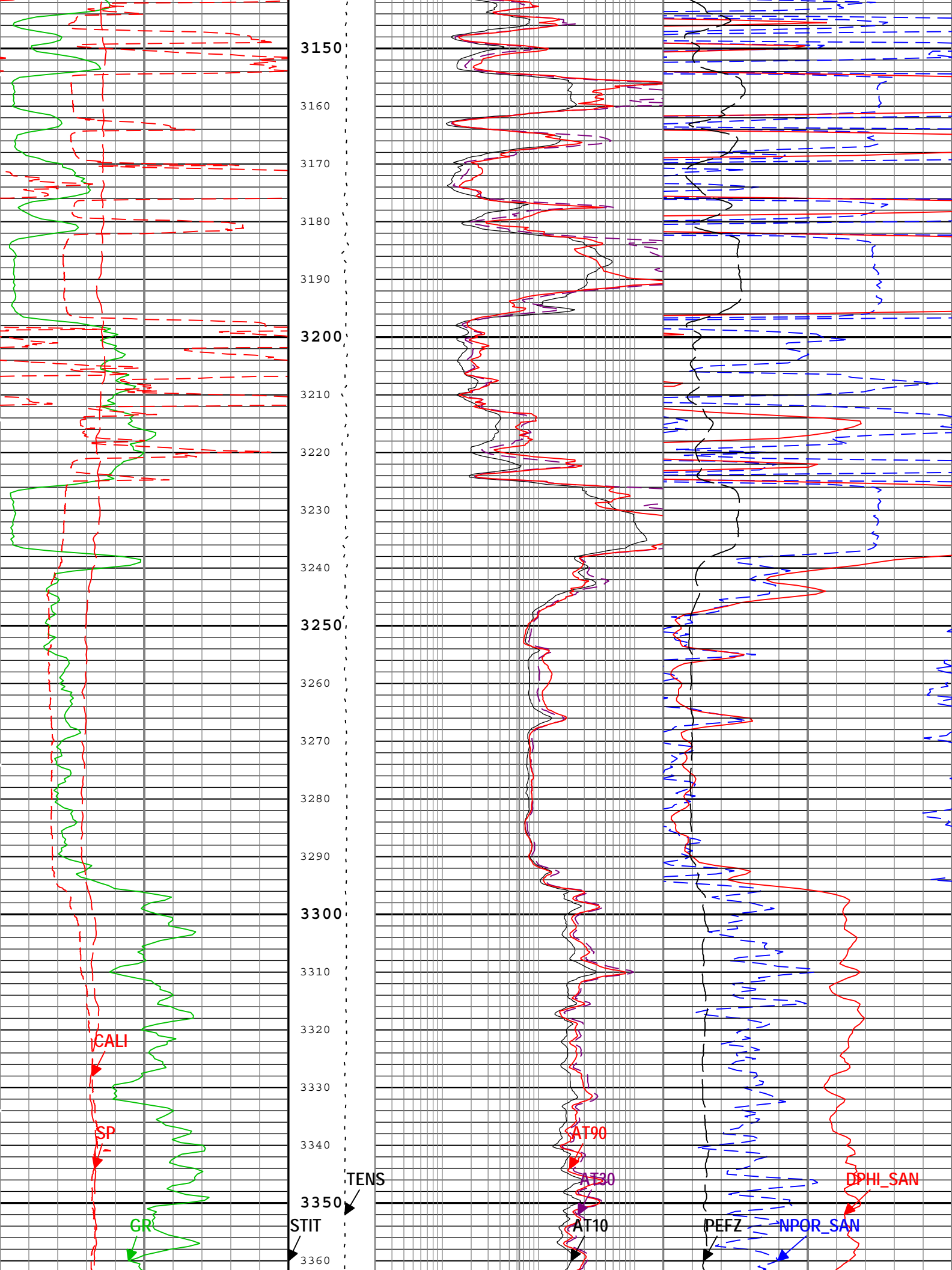


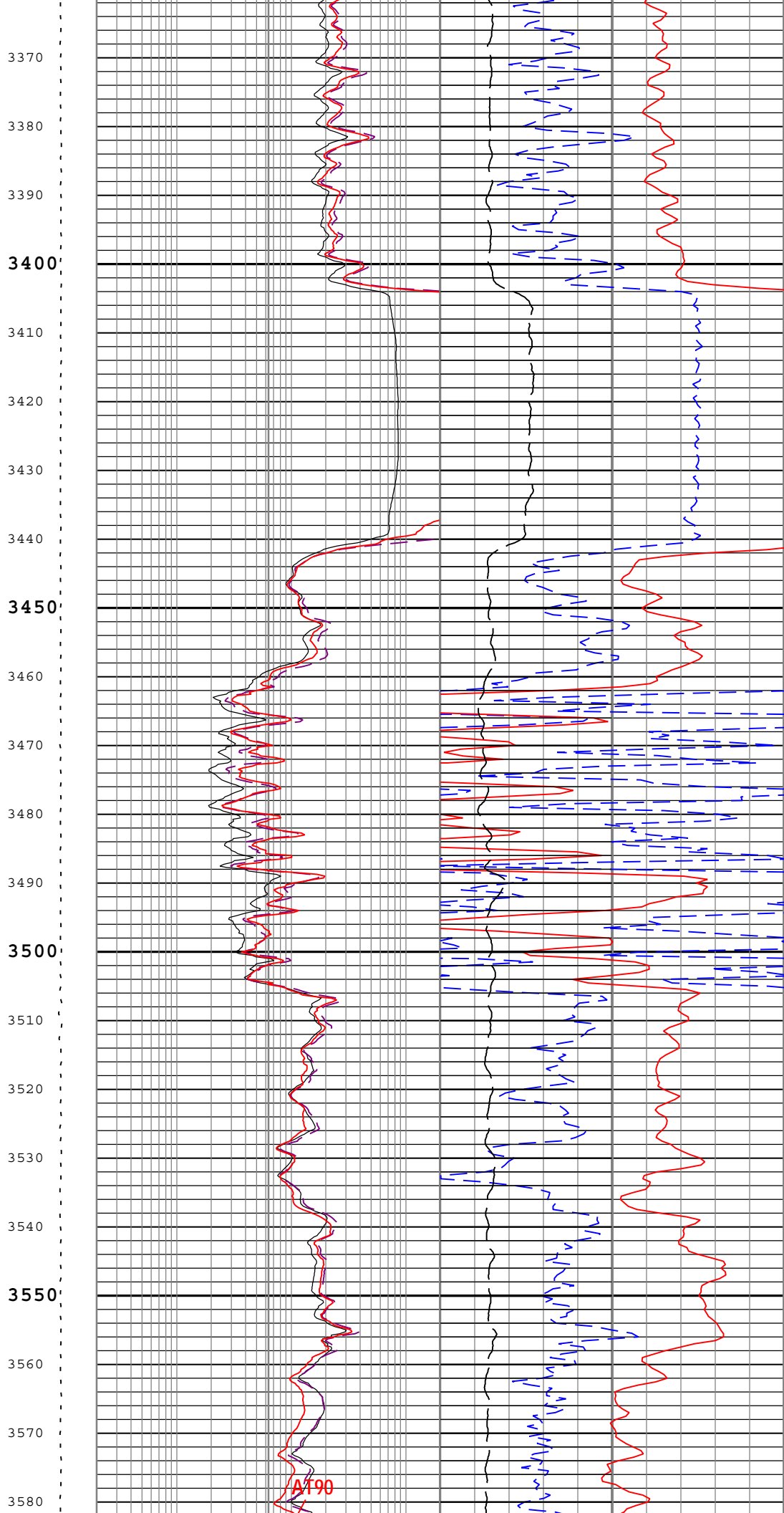
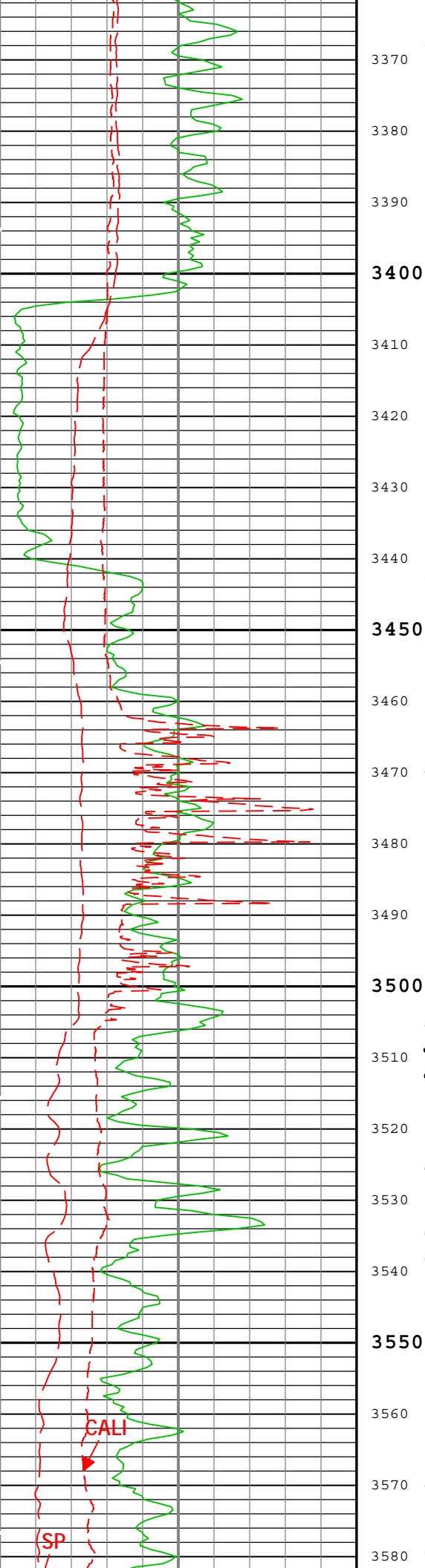


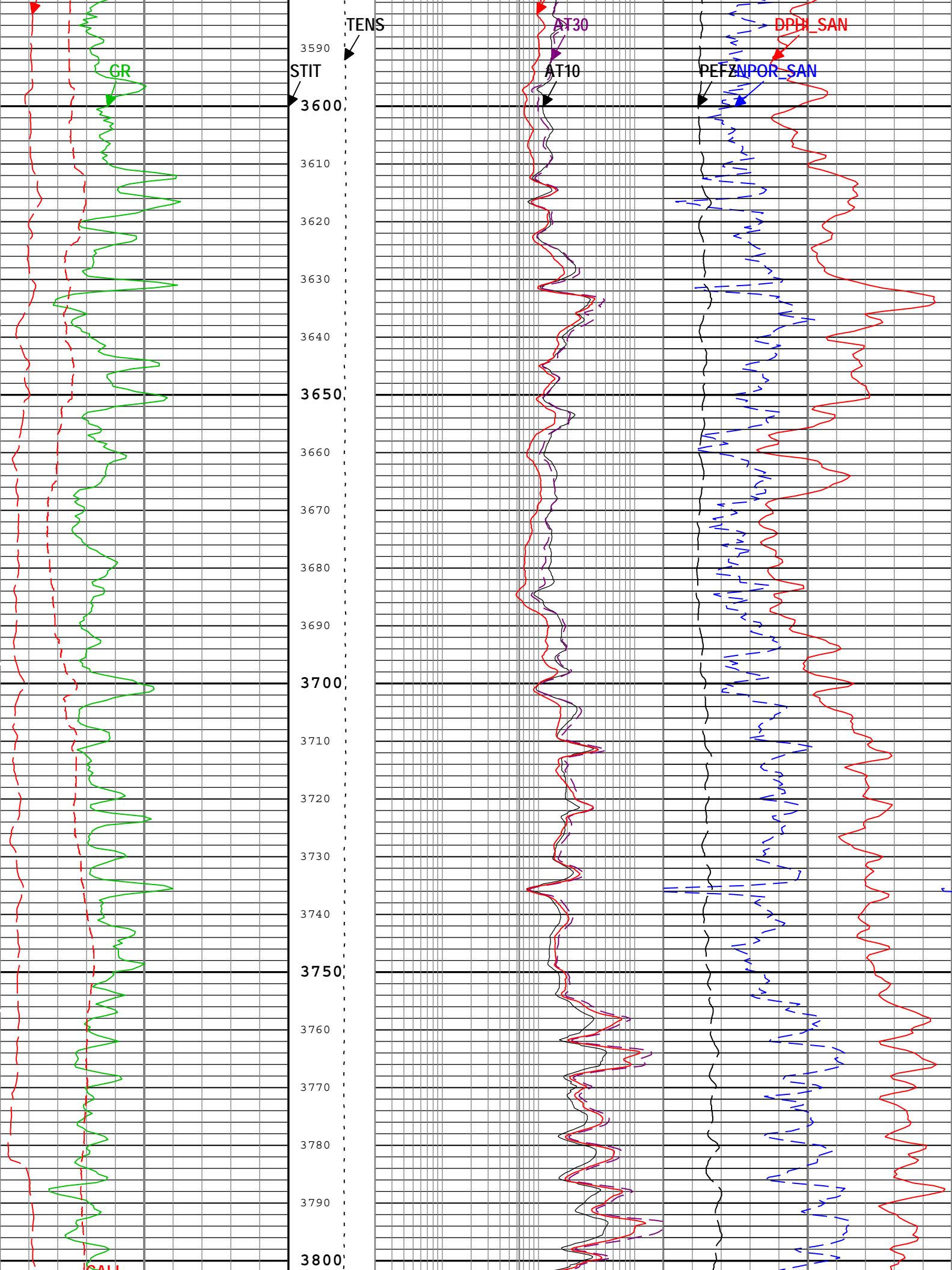


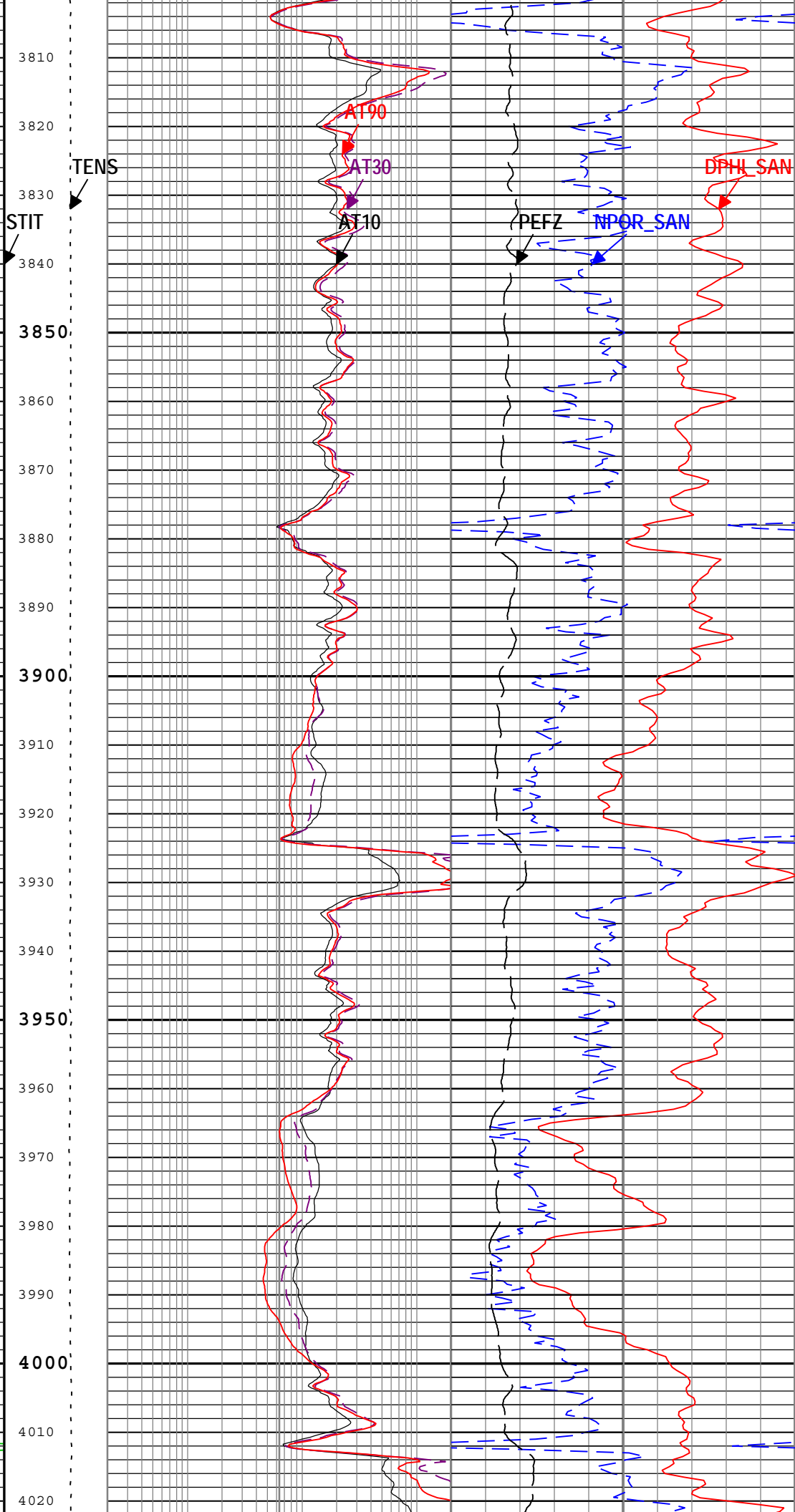
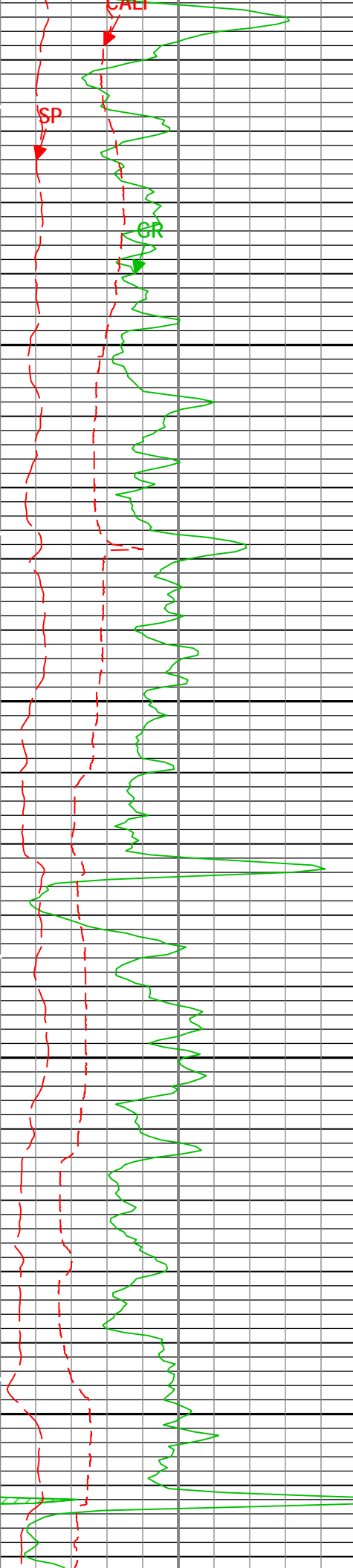


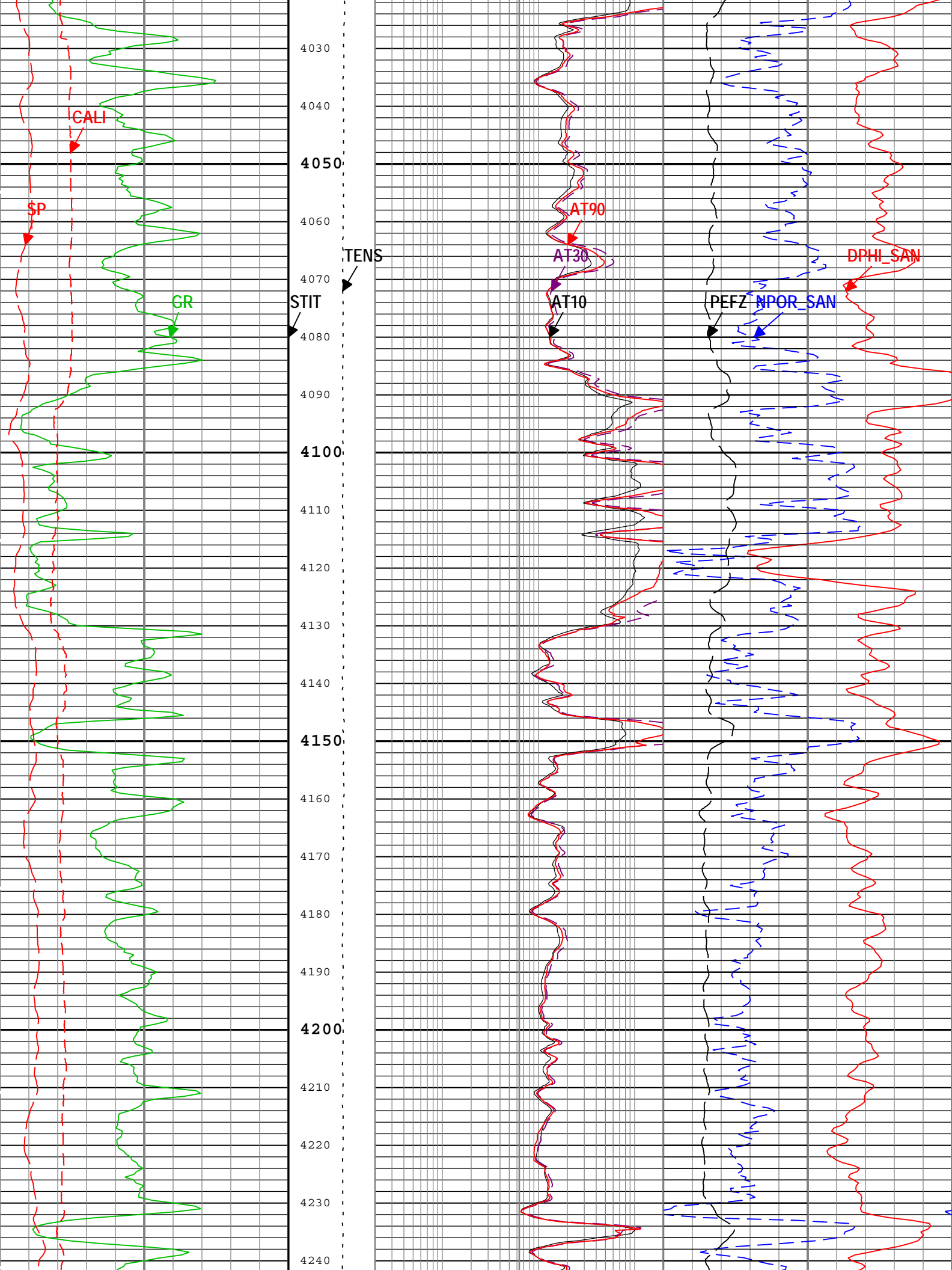


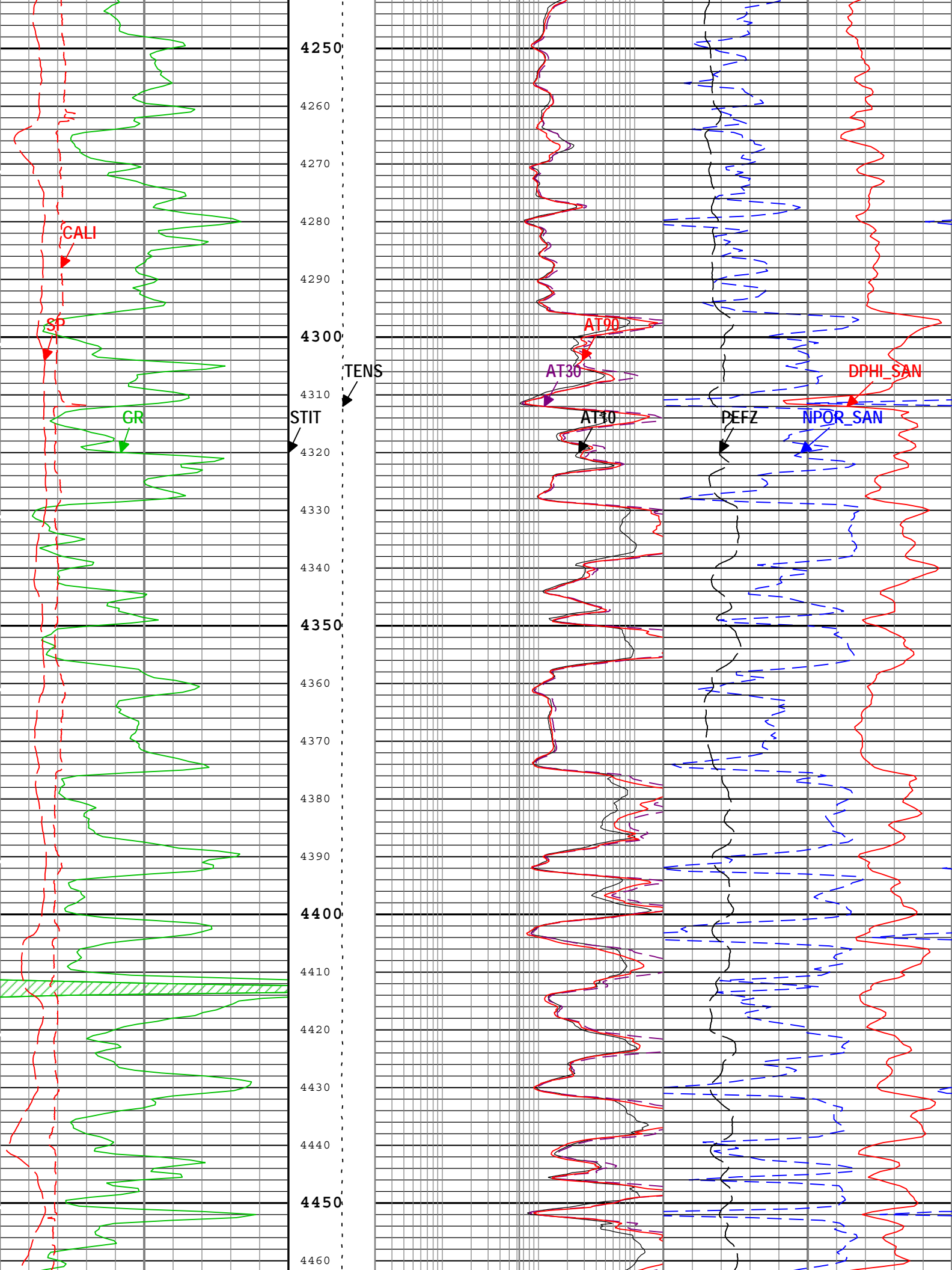


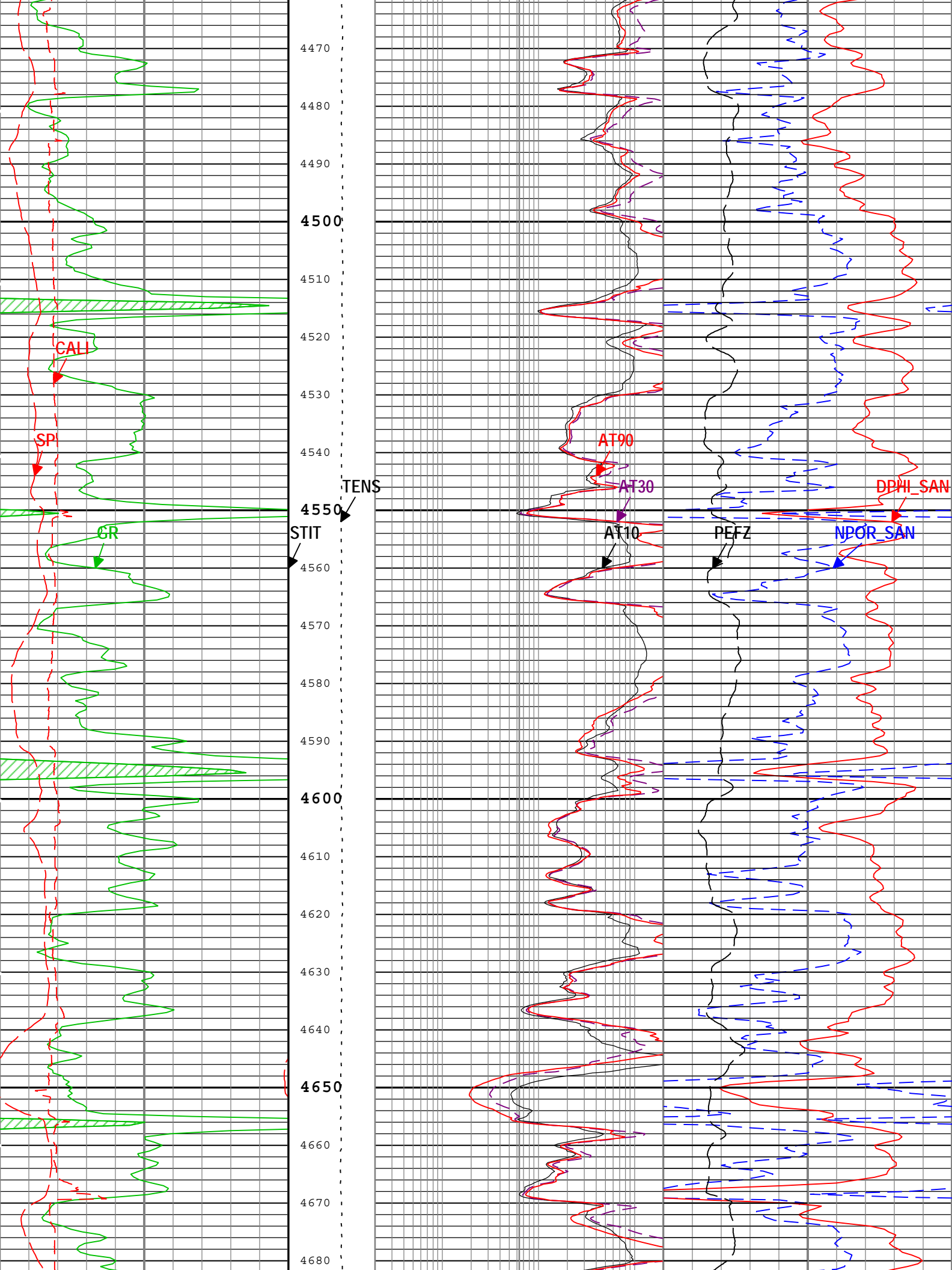


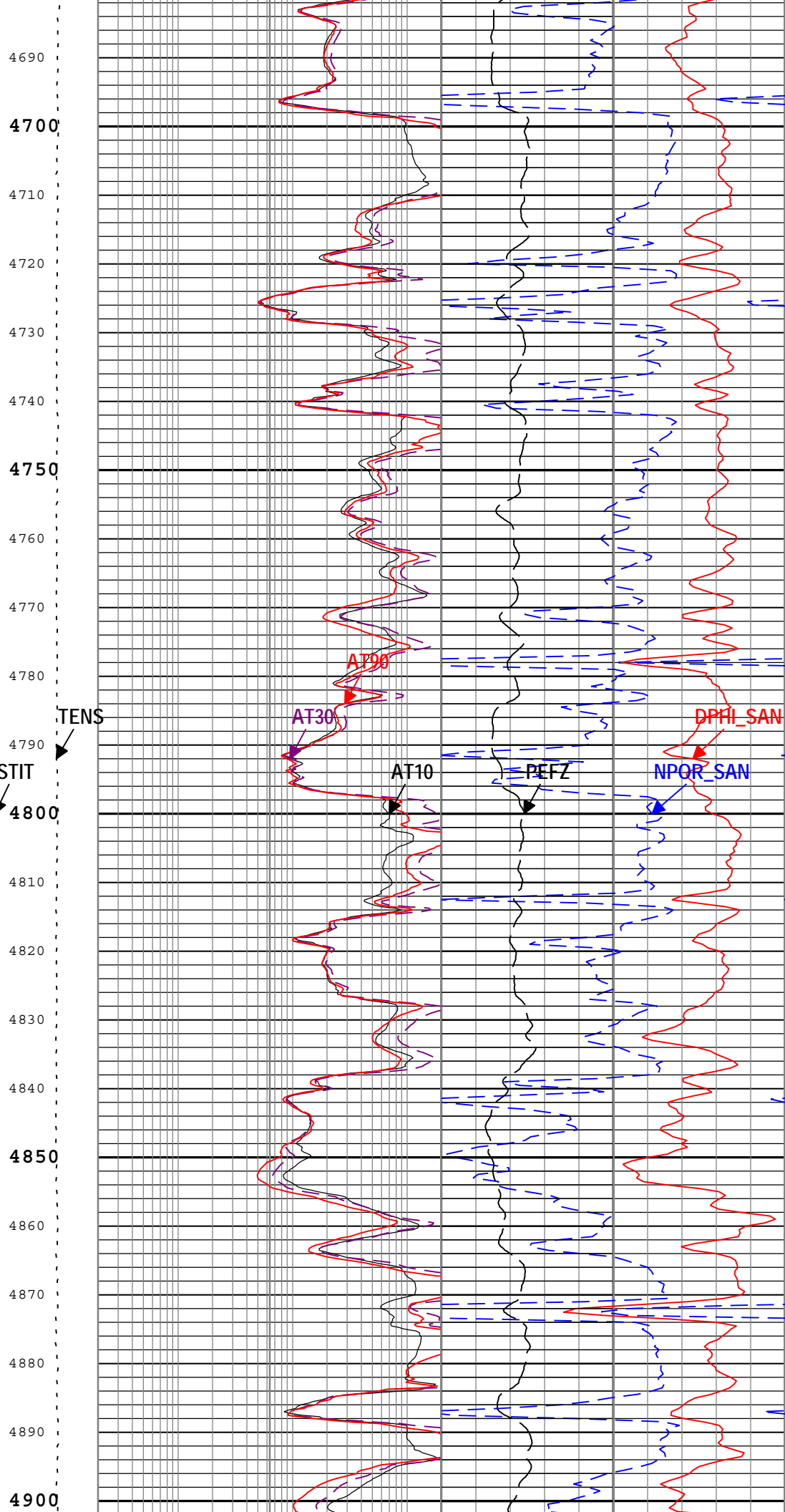
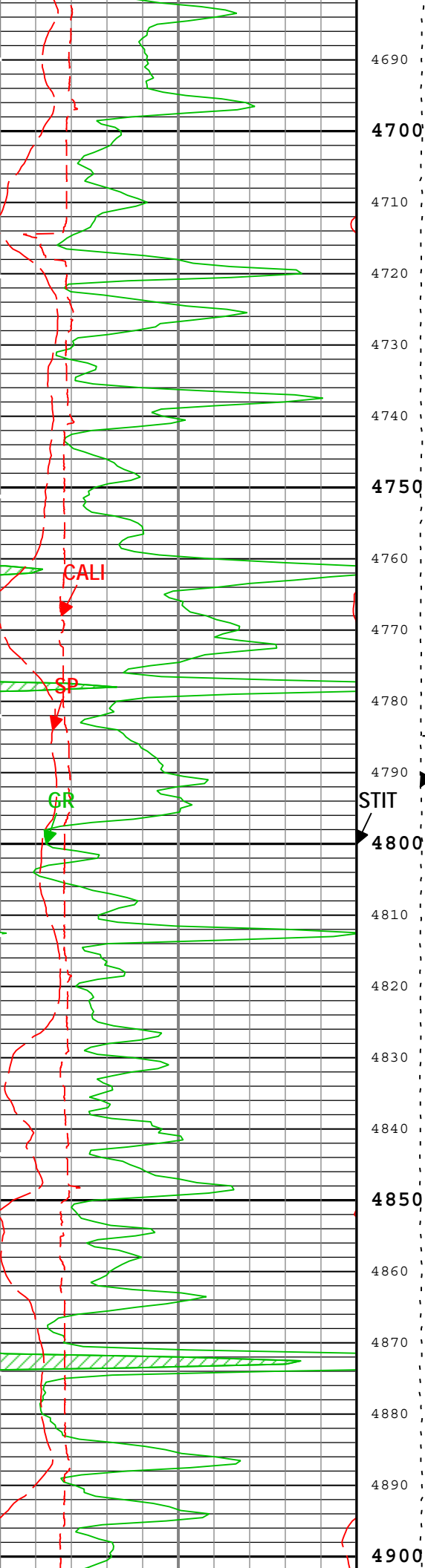


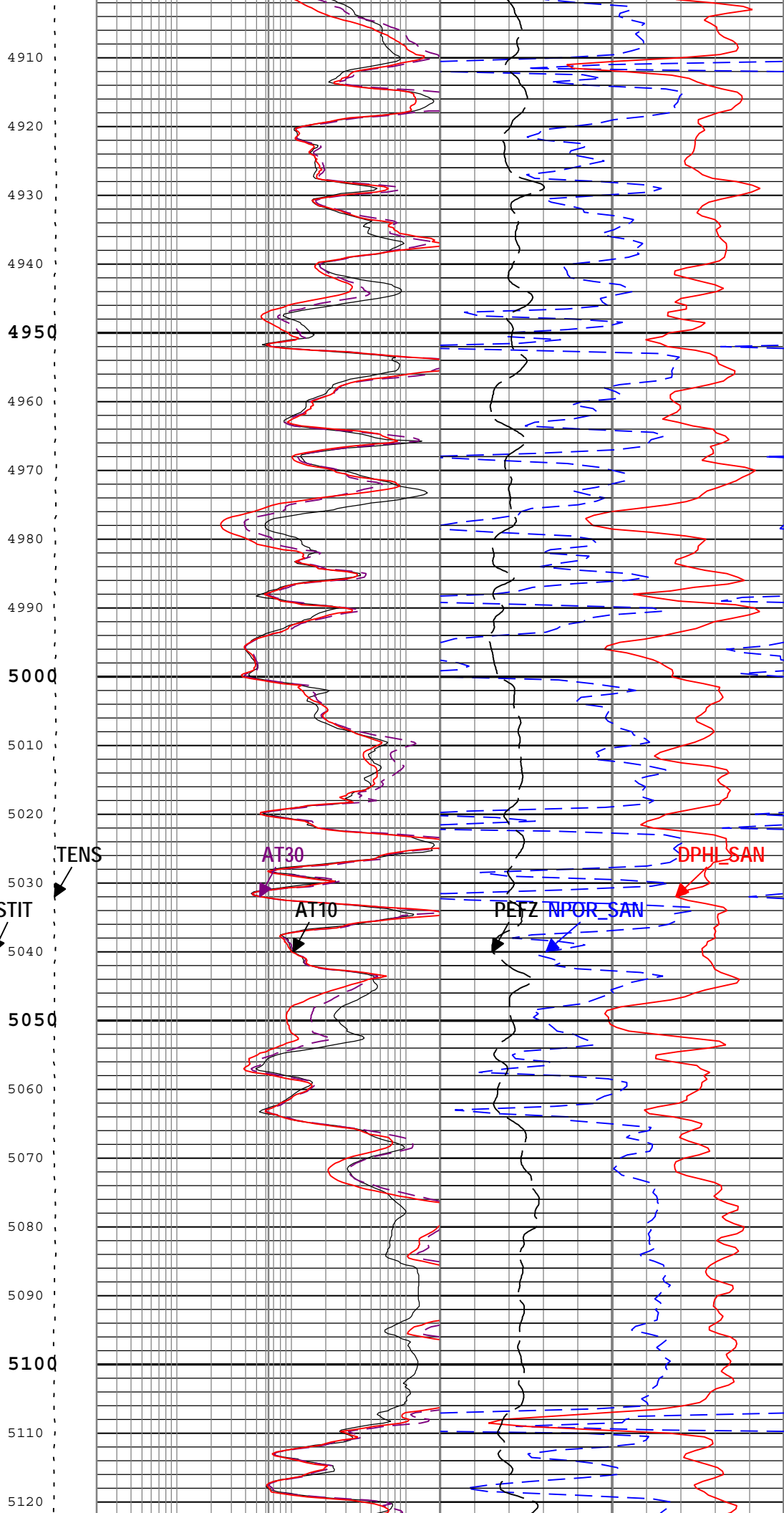
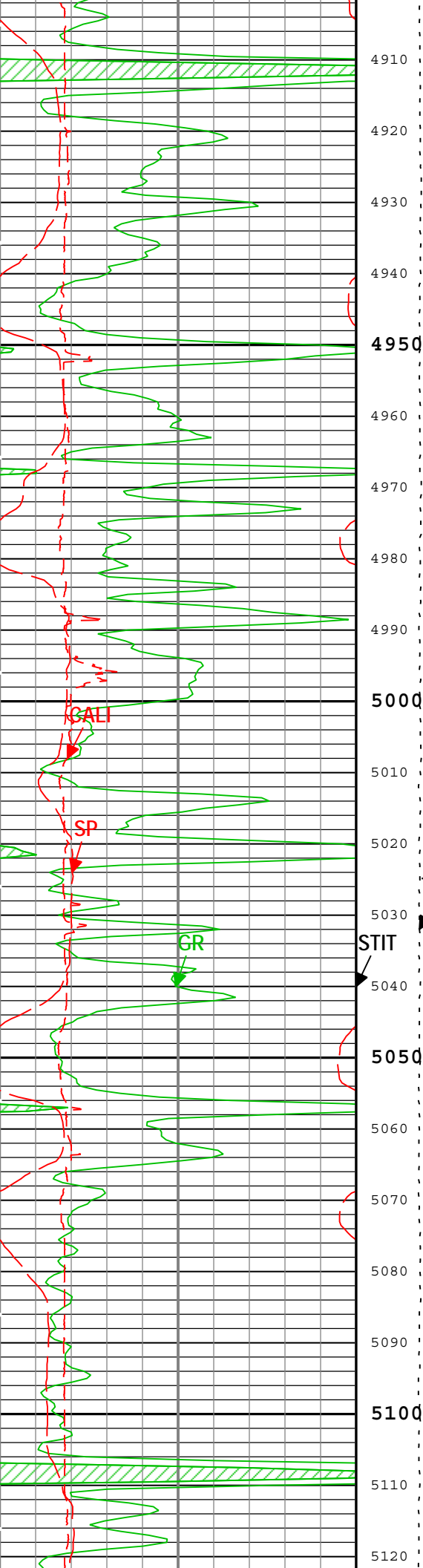


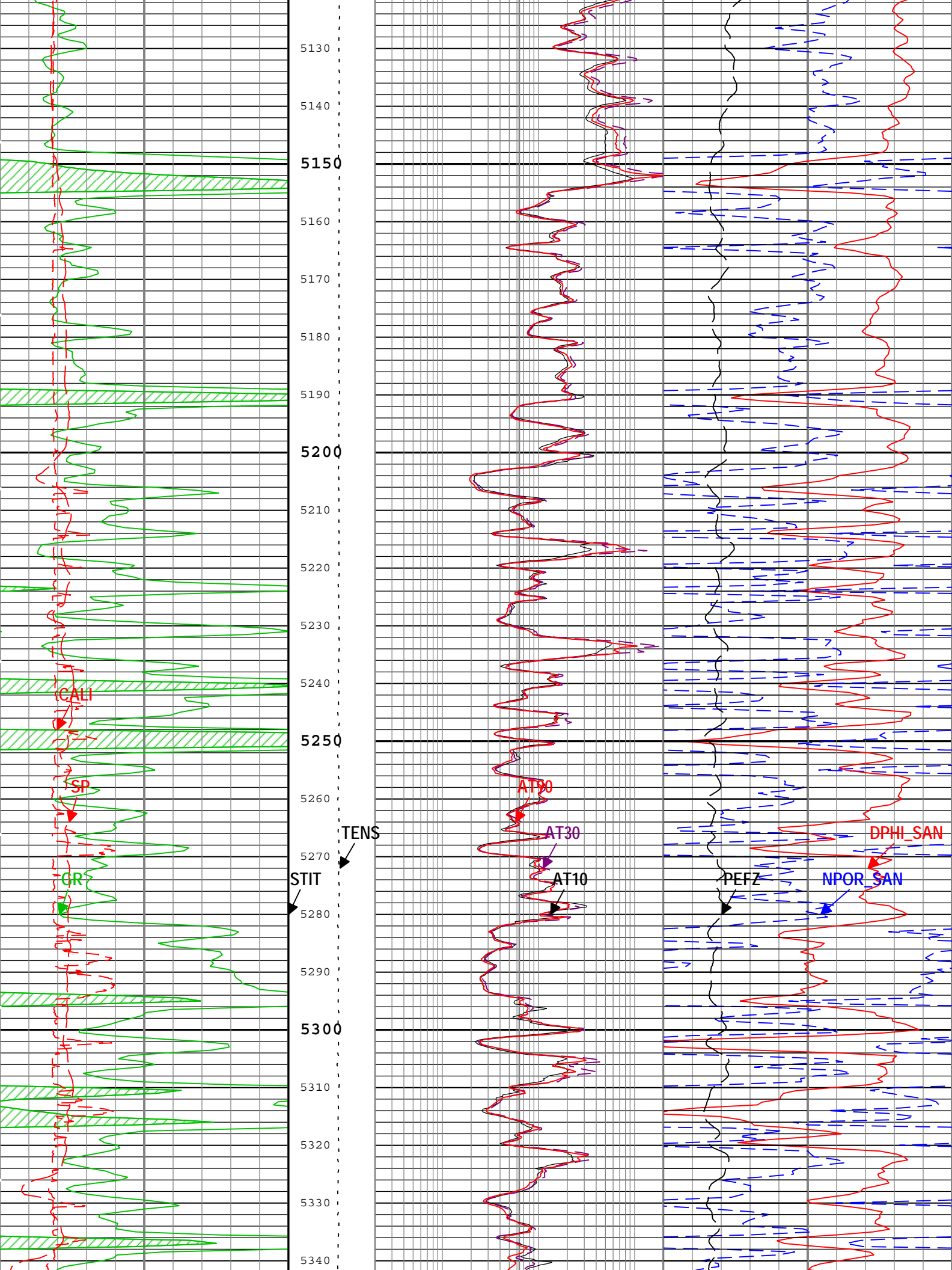


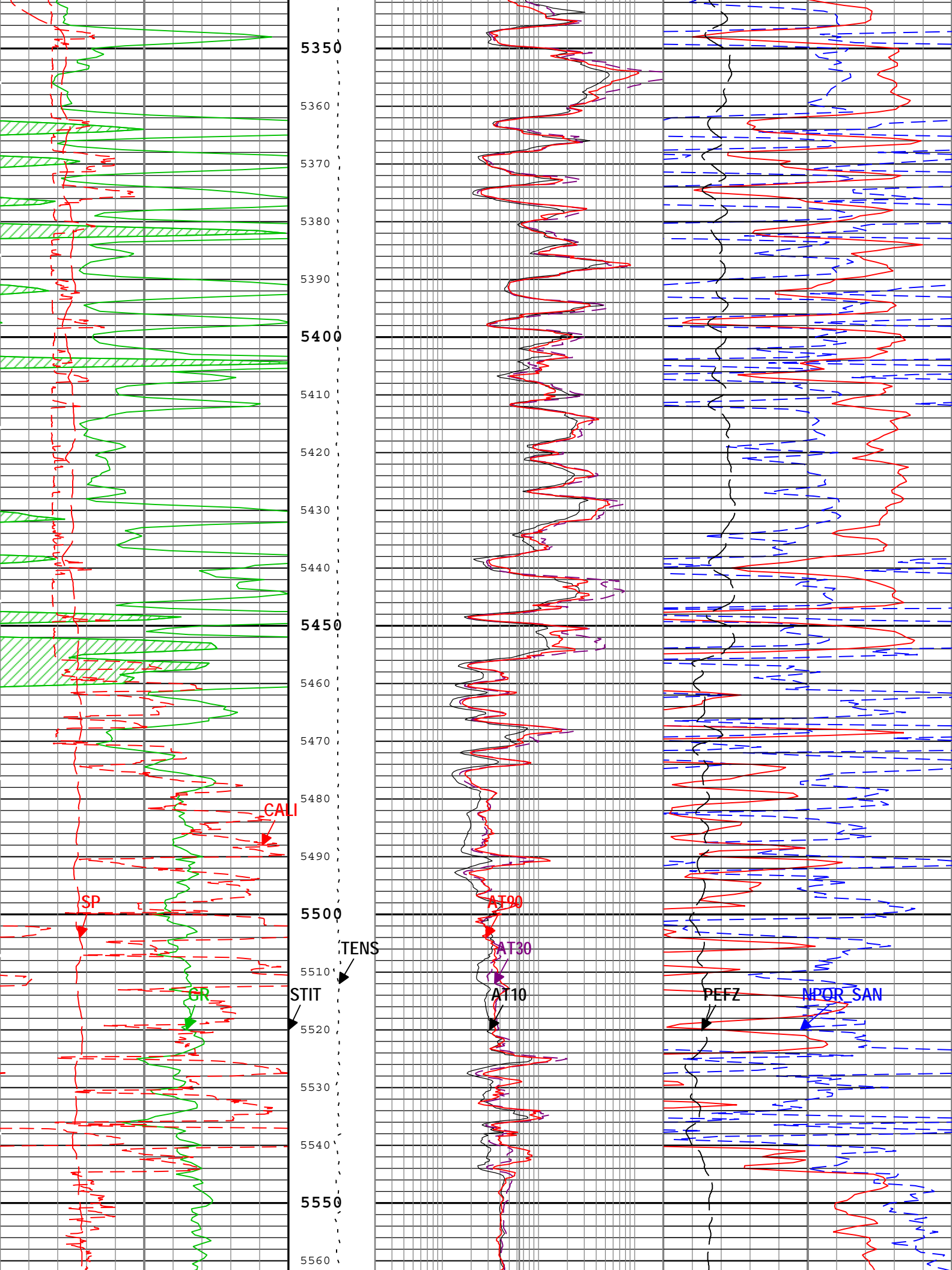


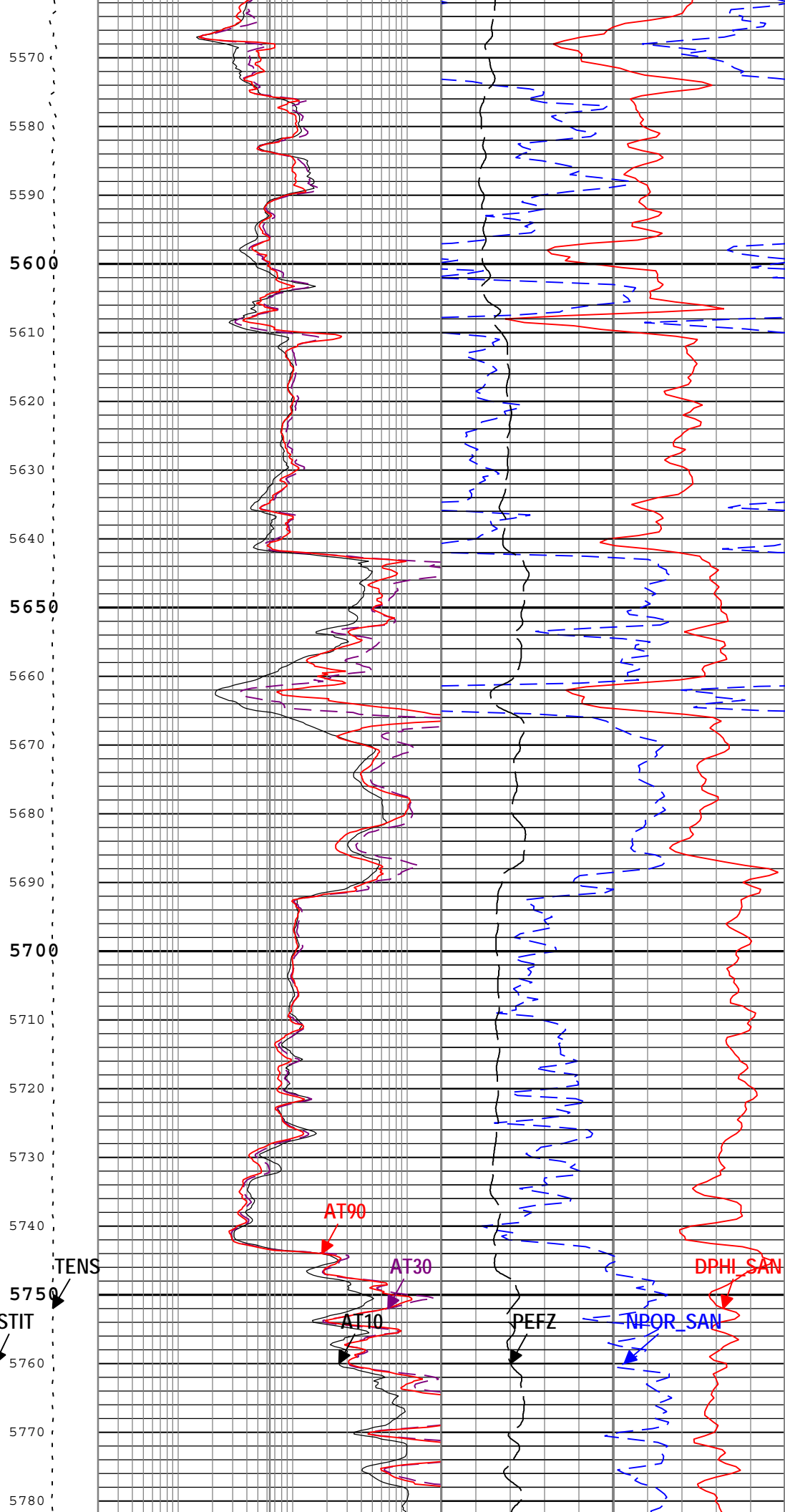
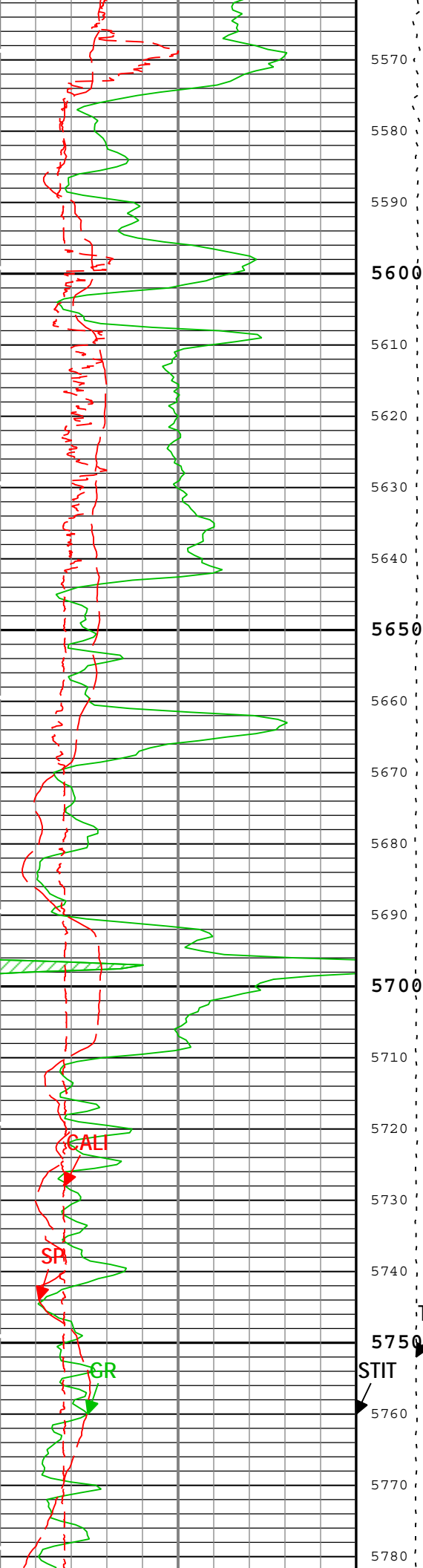


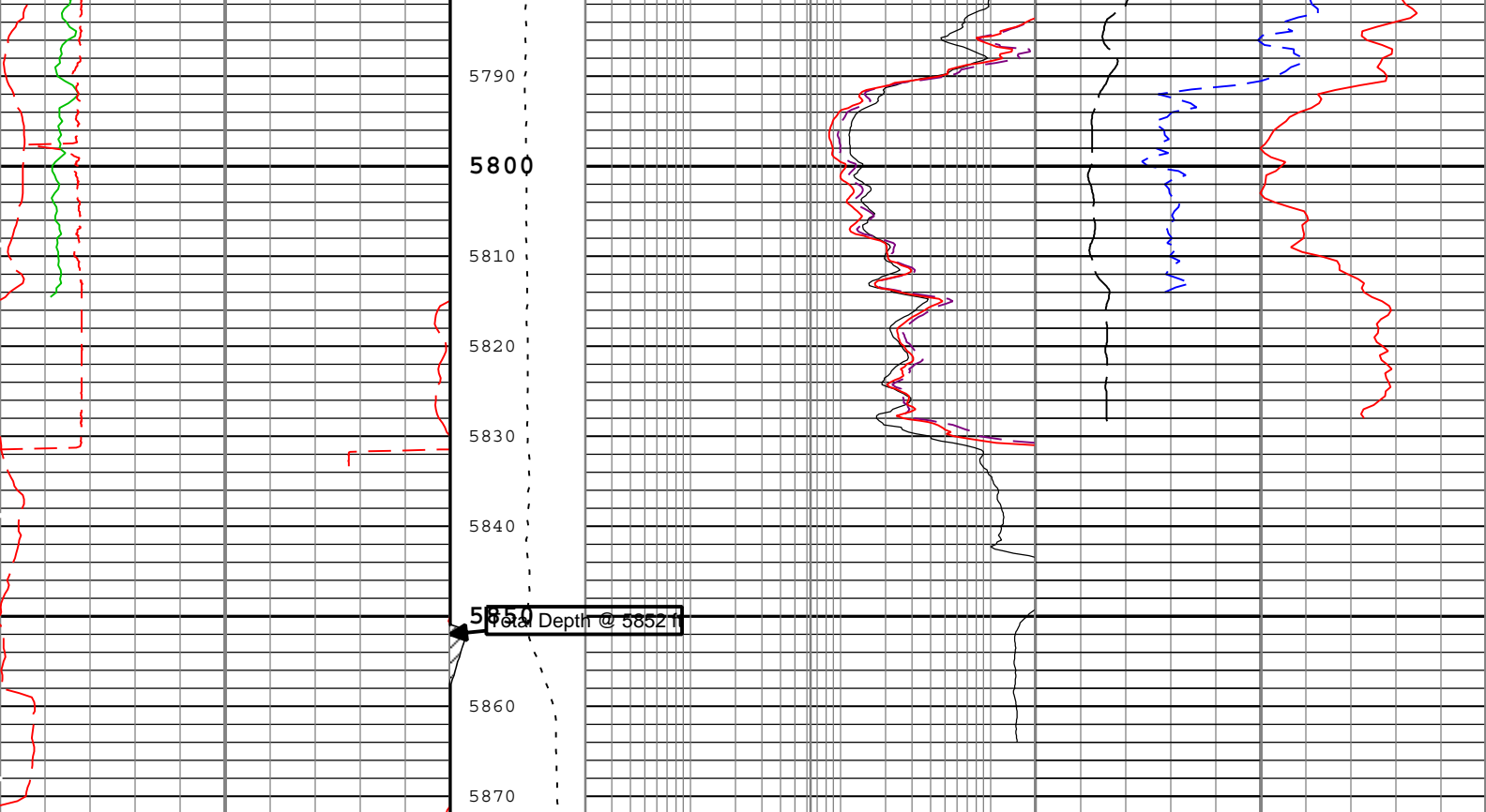












Gamma Ray Back up			Stuck Tool Indicator, Total (STIT)	Array Induction Two Foot Resistivity A10 (AT10) AIT-H			Gas Effect		
Gamma Ray (GR) HGNS-B				0.2 ohm.m 200			NPOR Backup		
0	gAPI 200		0 ft 50	Array Induction Two Foot Resistivity A30 (AT30) AIT-H			Enhanced Thermal Neutron Porosity (matrix Sandstone) (NPOR_SAN) HGNS-B		
0	Spontaneous Potential (SP) AIT-H mV 200		Cable Tension (TENS) 6000 lbf 0	0.2 ohm.m 200			0.3 ft3/ft3 -0.1		
6	Caliper (CALI) HDRS-B in 16			Array Induction Two Foot Resistivity A90 (AT90) AIT-H			Density Porosity (matrix Sandstone) (DPHI_SAN) HDRS-B		
				0.2 ohm.m 200			0.3 ft3/ft3 -0.1		
							Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-B		
							0 10		

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 20-Oct-2012 22:21:22

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-H	Compute Standoff	
ABLM	Array Induction Basic Logs Mode	AIT-H	Normal	
ACDE	Array Induction Casing Detection Enable	AIT-H	Yes	
ASTA	Array Induction Tool Standoff	AIT-H	0.625	in
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	500	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-B	0.177	in
CBLD	Casing Bottom (Logger)	WLSESSION	427	ft

CDCEN	Casing Bottom (Logger)	WLSSESSION	42.7	ft
CDEN	Cement Density	HGNS-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.2	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	Chemical Gel	
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	LIMESTONE	
MFST	Mud Filtrate Sample Temperature	Borehole	60.6	degF
NPRM	HRDD Nuclear Processing Mode	HDRS-B	High Resolution	
RMFS	Resistivity of Mud Filtrate Sample	Borehole	1.2	ohm.m
SOCO	Standoff Correction Option	HGNS-B	Yes	
SPDR	SP Drift Per Foot	AIT-H	0	mV/ft
TD	Total Measured Depth	Borehole	5858	ft

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	0	29.5	427
BS	7.875	427	5872.5

All depth are actual.

Tool Control 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	WLSSESSION	1800	ft/h
STSO_HRDD	Temperature Source for the Density Algorithm	HDRS-B	Decaytime algorithm	

Run 1								
5" Triple Combo Repeat Analysis								

Pass Summary								
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run 1	Log[4]:Up	Up	5189.39 ft	5874.71 ft	20-Oct-2012 6:59:01 PM	20-Oct-2012 7:11:49 PM	5.99 ft	
Run 1	Log[5]:Up	Up	86.55 ft	5872.33 ft	20-Oct-2012 7:17:25 PM	20-Oct-2012 9:22:44 PM	7.00 ft	

All depths are referenced to toolstring zero

Log	Run 1: Log[5]:Up
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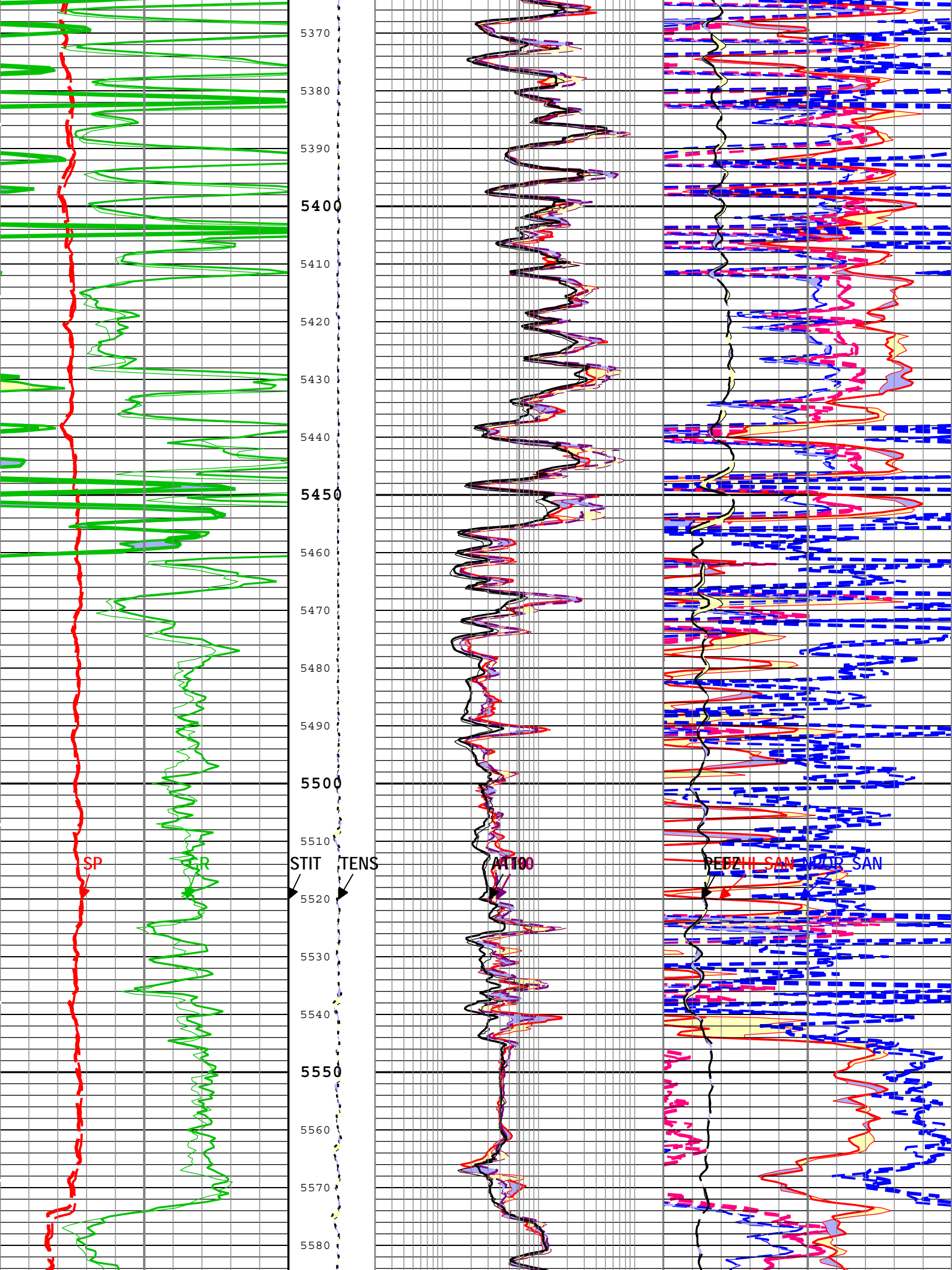
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Index Type: Measured Depth Creation Date: 20-Oct-2012 22:21:28

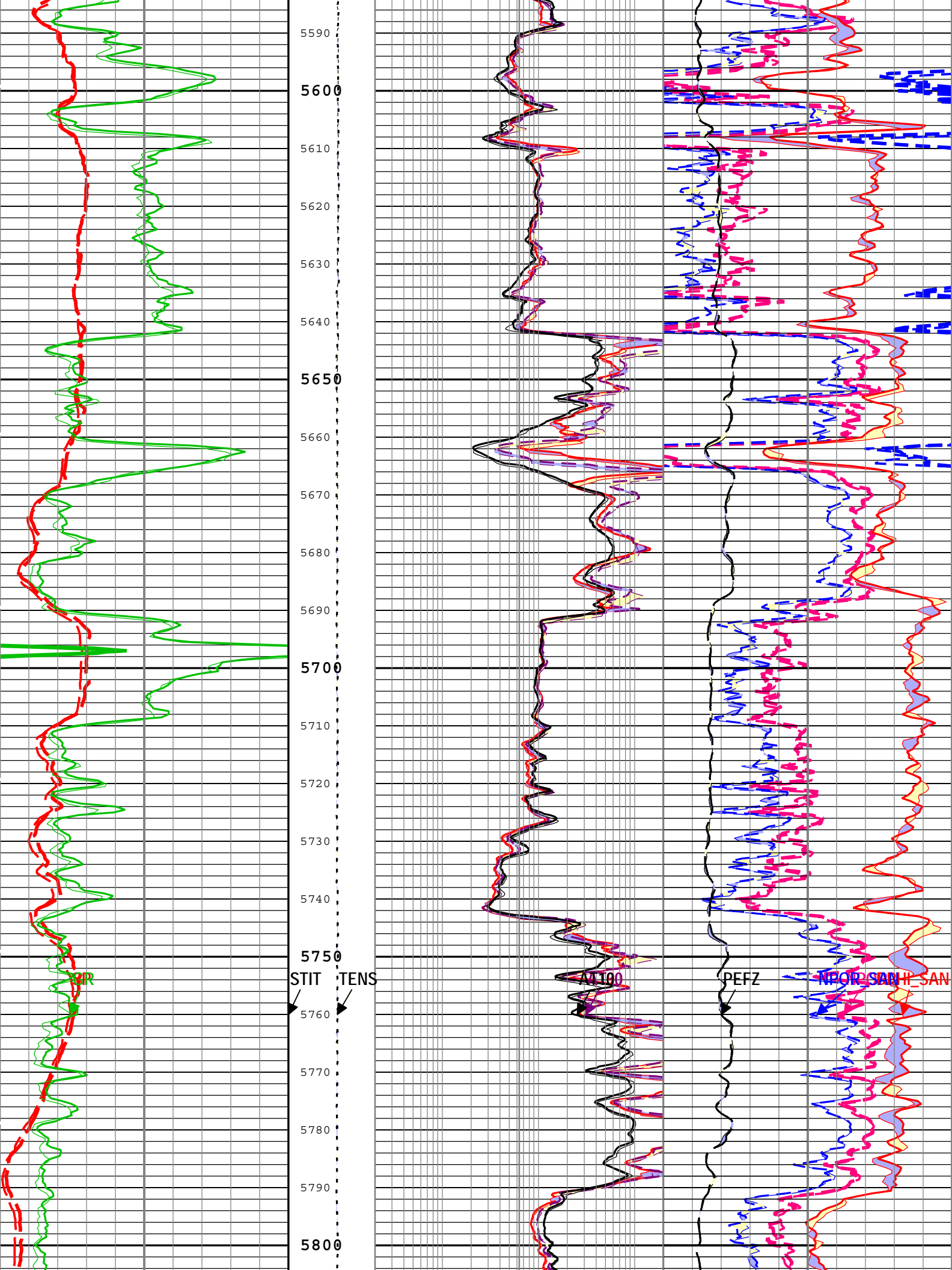
TIME_1900 - Time Marked every 60.00 (s)

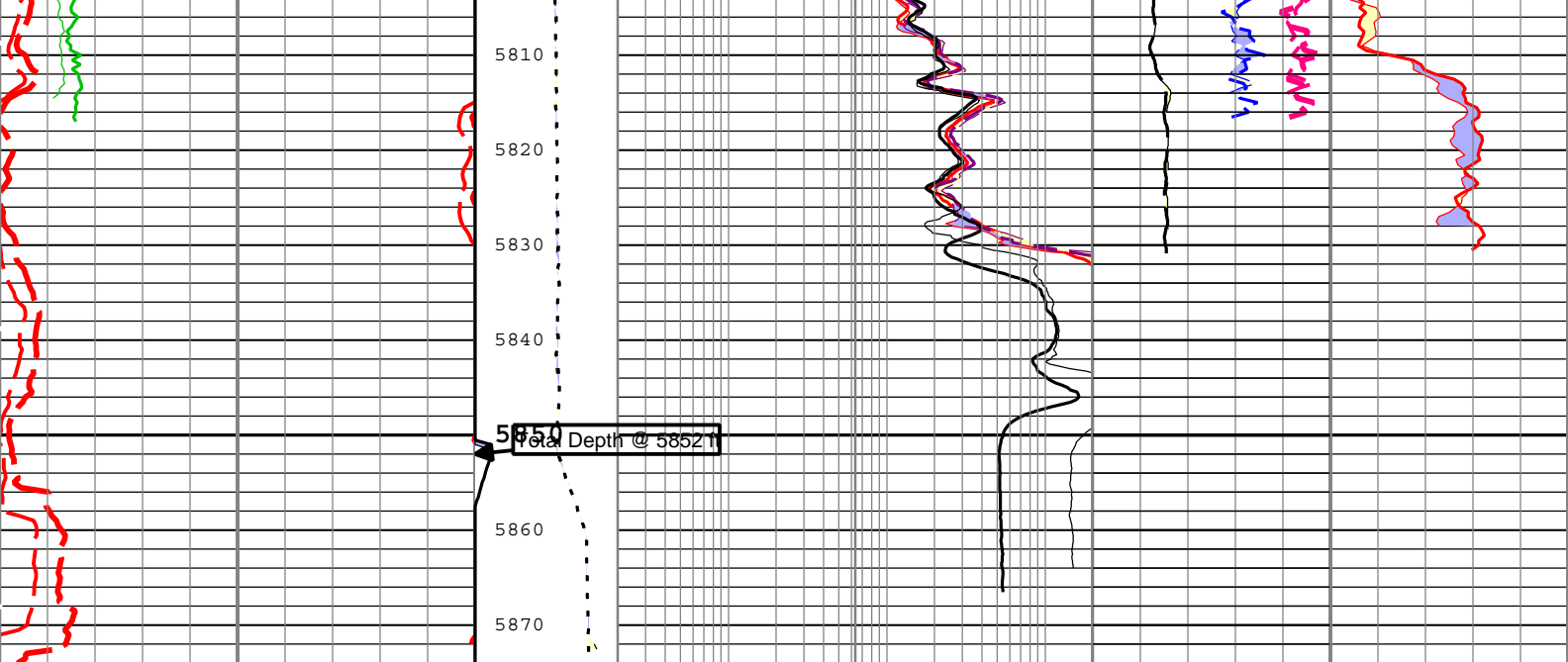
Main To Repeat

Repeat To Main

						Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-B	
						0	10
Main To Repeat		Main To Repeat	Main To Repeat		Main To Repeat		
Repeat To Main		Repeat To Main	Repeat To Main		Repeat To Main		
Spontaneous Potential (SP) AIT-H mV		Repeat To Main	Array Induction Two Foot Resistivity A90 (AT90) AIT-H ohm.m		Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-B ft3/ft3		
0 200		Cable Tension (TENS) 6000 lbf 0	0.2 200		-0.1 -0.5		
Main To Repeat		Main To Repeat	Main To Repeat		Main To Repeat		
Repeat To Main		Repeat To Main	Repeat To Main		Repeat To Main		
Gamma Ray (GR) HGNS-B gAPI		Main To Repeat	Array Induction Two Foot Resistivity A30 (AT30) AIT-H ohm.m		Density Porosity (matrix Sandstone) (DPHI_SAN) HDRS-B ft3/ft3		
200 400		Repeat To Main	0.2 200		0.3 -0.1		
Main To Repeat		Stuck Tool Indicator, Total (STIT)	Main To Repeat		Main To Repeat		
Repeat To Main		0 ft 50	Repeat To Main		Repeat To Main		
Gamma Ray (GR) HGNS-B gAPI			Array Induction Two Foot Resistivity A10 (AT10) AIT-H ohm.m		Enhanced Thermal Neutron Porosity (matrix Sandstone) (NPOR_SAN) HGNS-B ft3/ft3		
0 200			0.2 200		0.3 -0.1		







Main To Repeat		Main To Repeat	Main To Repeat	Main To Repeat
Repeat To Main		Repeat To Main	Repeat To Main	Repeat To Main
Spontaneous Potential (SP) AIT-H		Array Induction Two Foot Resistivity A90 (AT90) AIT-H	Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-B	
0 mV 200		0.2 ohm.m 200	-0.1 ft3/ft3 -0.5	
Main To Repeat		Main To Repeat	Main To Repeat	
Repeat To Main		Repeat To Main	Repeat To Main	
Gamma Ray (GR) HGNS-B		Array Induction Two Foot Resistivity A30 (AT30) AIT-H	Density Porosity (matrix Sandstone) (DPHI_SAN) HDRS-B	
200 gAPI 400		0.2 ohm.m 200	0.3 ft3/ft3 -0.1	
Main To Repeat		Main To Repeat	Main To Repeat	
Repeat To Main		Repeat To Main	Repeat To Main	
Gamma Ray (GR) HGNS-B		Array Induction Two Foot Resistivity A10 (AT10) AIT-H	Enhanced Thermal Neutron Porosity (matrix Sandstone) (NPOR_SAN) HGNS-B	
0 gAPI 200		0.2 ohm.m 200	0.3 ft3/ft3 -0.1	
			Main To Repeat	
			Repeat To Main	
			Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-B	
			0 10	

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo RA) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 20-Oct-2012 22:21:28

Calibration Report

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

Primary Equipment : Array Induction Sonde - H AHIS 398

Auxiliary Equipment :		AITH Rm/SP Bottom Nose		AHRM			
AIT Sonde Calibration - Test Loop Gain							
Master (EEPROM):		10:54:27 13-Sep-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.018	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	0.588	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.019	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.646	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.020	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	-0.013	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.018	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	0.040	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.999	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	-0.034	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.992	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.222	3.000	
Test Loop Gain - 6		Master	1.000	0.950	1.000	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.151	3.000	
Test Loop Gain - 7		Master	1.000	0.950	1.015	1.050	
Test Loop Phase - 7	deg	Master	0	-3.000	-0.171	3.000	
AIT Sonde Calibration - Sonde Error Correction							
Master (EEPROM):		10:54:27 13-Sep-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-83.485	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	113.456	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	170.122	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	141.828	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	113.188	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	31.028	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	59.559	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	44.859	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	23.005	35.000	
Sonde Error Correction Quad - 4		Master	-----	-63.000	-11.754	63.000	
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	14.030	24.000	
Sonde Error Correction Quad - 5		Master	-----	-50.000	2.131	50.000	
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.683	15.000	
Sonde Error Correction Quad - 6		Master	-----	-30.000	4.940	30.000	
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-1.093	5.000	
Sonde Error Correction Quad - 7		Master	-----	-30.000	3.075	30.000	
AIT Mud Calibration - Mud Calibration Gain							
Master (EEPROM):		10:54:27 13-Sep-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.821	1.200	
Fine Gain		Master	1.000	0.800	0.823	1.200	
AIT Electronics Check - Thru Calibration Check							
Master (EEPROM):		10:54:27 13-Sep-2012	Before (Measured):	11:48:31 19-Oct-2012	After:		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	-----	0.363	0.627	0.847	
		Before	-----	0.363	0.627	0.847	
		After	-----	-----	-----	-----	
		Before-Master	-----	-----	0.000	-----	
		After-Before	-----	-----	-----	-----	
Thru Cal Phase - 0	deg	Master	-----	11.000	74.608	131.000	
		Before	-----	11.000	75.213	131.000	
		After	-----	-----	-----	-----	
		Before-Master	-----	-----	0.605	-----	
		After-Before	-----	-----	-----	-----	
Thru Cal Mag - 1	V	Master	-----	0.762	1.285	1.778	
		Before	-----	0.762	1.286	1.778	
		After	-----	-----	-----	-----	
		Before-Master	-----	-----	0.001	-----	
		After-Before	-----	-----	-----	-----	

Thru Cal Phase - 1	deg	Master	----	10.000	73.598	130.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
Before	----	10.000	74.210	130.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Thru Cal Mag - 2	V	Master	----	0.374	0.637	0.872	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
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Thru Cal Phase - 2	deg	Master	----	6.000	69.416	126.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
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Before-Master	----	----	0.642	----	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Thru Cal Mag - 3	V	Master	----	0.422	0.723	0.986	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
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Thru Cal Phase - 3	deg	Master	----	5.000	68.514	125.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
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Thru Cal Mag - 4	V	Master	----	0.802	1.349	1.872	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
Before	----	0.802	1.349	1.872	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Thru Cal Phase - 4	deg	Master	----	-1.000	61.558	119.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
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Thru Cal Mag - 5	V	Master	----	1.173	1.947	2.737	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
Before	----	1.173	1.949	2.737	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Thru Cal Phase - 5	deg	Master	----	-3.000	59.409	117.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
Before	----	-3.000	60.127	117.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Before-Master	----	----	0.718	----	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Thru Cal Mag - 6	V	Master	----	1.173	1.943	2.737	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
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Before-Master	----	----	0.001	----	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Thru Cal Phase - 6	deg	Master	----	-3.000	59.473	117.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
Before	----	-3.000	60.190	117.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Thru Cal Mag - 7	V	Master	----	0.849	1.382	1.981	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
Before	----	0.849	1.385	1.981	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Before-Master	----	----	0.003	----	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Thru Cal Phase - 7	deg	Master	----	-7.000	53.953	113.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																														
Before	----	-7.000	54.946	113.000	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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Before-Master	----	----	0.993	----	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																
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		Before-Master After-Before	----- -----	----- -----	-0.023 -----	----- -----	<div></div>
SPA Plus	mV	Master		941.000	993.658	1040.000	<div></div>
		Before		941.000	993.809	1040.000	<div></div>
		After	-----	-----	-----	-----	<div></div>
		Before-Master After-Before	----- -----	----- -----	0.151 -----	----- -----	<div></div>
Temperature Zero	V	Master		-0.050	0.000	0.050	<div></div>
		Before		-0.050	0.000	0.050	<div></div>
		After	-----	-----	-----	-----	<div></div>
		Before-Master After-Before	----- -----	----- -----	0.000 -----	----- -----	<div></div>
Temperature Plus	V	Master		0.870	0.920	0.960	<div></div>
		Before		0.870	0.921	0.960	<div></div>
		After	-----	-----	-----	-----	<div></div>
		Before-Master After-Before	----- -----	----- -----	0.001 -----	----- -----	<div></div>

DSLT-H (Digitizing Sonic Logging Tool - H) Calibration - Run 1							
Primary Equipment : Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL SLS-E							
CBL Normalization - CBL Accumulations							
Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div></div>
Upper Far Amplitude - 0		Master	-----	-----	-----	-----	<div></div>
Upper Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div></div>
Lower Far Amplitude - 0		Master	-----	-----	-----	-----	<div></div>
Lower Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div></div>
CBL Normalization - CBL/VDL Coefficients							
Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div></div>
CBL Correction Factor for UT		Master	3.500	2.700	NOT DONE	4.300	<div></div>
CBL Correction Factor for LT		Master	2.500	1.700	NOT DONE	4.300	<div></div>
VDL Ratio between UT and LT for CBLB Mode		Master	1.000		NOT DONE		<div></div>
CBL Free Pipe Adjustment - Free Pipe Measurement							
Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div></div>
CBL Amplitude - 0	mV	Before	-----	-----	-----	-----	<div></div>
CBL Reference Amplitude (CBRA) - 0	mV	Before	-----	-----	-----	-----	<div></div>
Measurement Depth - 0	ft	Before	-----	-----	-----	-----	<div></div>
CBL Free Pipe Adjustment - CBL Amplitude Coefficient							
Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div></div>
CBL Adjustment Factor		Before	1.000	0.200	NOT DONE	5.000	<div></div>
Depth of Before Calibration	ft	Before			NOT DONE		<div></div>

HDRS-B (HILT Density and Rxo Sonde, 125 degC) Calibration - Run 1			
Primary Equipment :			
HILT High-Resolution Control Cartridge, 125 degC		HRCC-B	
HILT Resistivity Gamma-Ray Density Device, 125 degC		HRGD-B	1849
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	
HILT High-Resolution Mechanical Sonde, 125 degC		HRMS-B	

Calibration Parameters:		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):		11:51:28 19-Oct-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
Small Ring	in	Before	8.00	6.00	7.99	10.00	<div><div></div><div></div></div>
Large Ring	in	Before	12.00	9.00	12.09	15.00	<div><div></div><div></div></div>
HDRS Density Calibration - Inversion Results							
Master (EEPROM):		16:18:56 18-Oct-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
Rho Aluminum	g/cm3	Master	2.596	2.586	2.600	2.606	<div><div></div><div></div></div>
Rho Magnesium	g/cm3	Master	1.686	1.676	1.686	1.696	<div><div></div><div></div></div>
Pe Aluminum		Master	2.570	2.470	2.588	2.670	<div><div></div><div></div></div>
Pe Magnesium		Master	2.650	2.550	2.614	2.750	<div><div></div><div></div></div>
HDRS Density Calibration - Deviation Summary							
Master (EEPROM):		16:18:56 18-Oct-2012					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
BS Average Deviation	%	Master	0	-0.6000	0.4849	0.6000	<div><div></div><div></div></div>
BS Max Deviation	%	Master	0	-1.6000	0.9095	1.6000	<div><div></div><div></div></div>
SS Average Deviation	%	Master	0	-1.0000	0.3256	1.0000	<div><div></div><div></div></div>
SS Max Deviation	%	Master	0	-2.5000	1.2957	2.5000	<div><div></div><div></div></div>
LS Average Deviation	%	Master	0	-1.5000	0.7590	1.5000	<div><div></div><div></div></div>
LS Max Deviation	%	Master	0	-3.5000	2.1887	3.5000	<div><div></div><div></div></div>
HDRS Density Calibration - Background Summary							
Master (EEPROM):		16:18:56 18-Oct-2012		Before (Measured):		11:50:14 19-Oct-2012	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
BS Window Ratio		Master	1.0000		0.7390		<div><div></div><div></div></div>
		Before	0.7390	0.7020	0.7351	0.7759	<div><div></div><div></div></div>
		Before-Master	-----	-----	-0.0039	-----	<div><div></div><div></div></div>
BS Window Sum	1/s	Master	1		9572		<div><div></div><div></div></div>
		Before	9572	9094	9582	10051	<div><div></div><div></div></div>
		Before-Master	-----	-----	10	-----	<div><div></div><div></div></div>
SS Window Ratio		Master	1.0000		0.4947		<div><div></div><div></div></div>
		Before	0.4947	0.4699	0.4952	0.5194	<div><div></div><div></div></div>
		Before-Master	-----	-----	0.0005	-----	<div><div></div><div></div></div>
SS Window Sum	1/s	Master	1		9181		<div><div></div><div></div></div>
		Before	9181	8722	9178	9640	<div><div></div><div></div></div>
		Before-Master	-----	-----	-3	-----	<div><div></div><div></div></div>
LS Window Ratio		Master	1.0000		0.3001		<div><div></div><div></div></div>
		Before	0.3001	0.2851	0.2988	0.3151	<div><div></div><div></div></div>
		Before-Master	-----	-----	-0.0013	-----	<div><div></div><div></div></div>
LS Window Sum	1/s	Master	1		1075		<div><div></div><div></div></div>
		Before	1075	1021	1075	1128	<div><div></div><div></div></div>
		Before-Master	-----	-----	0	-----	<div><div></div><div></div></div>
HDRS Density Calibration - Photo-multiplier High Voltages							
Master (EEPROM):		16:18:56 18-Oct-2012		Before (Measured):		11:50:14 19-Oct-2012	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
BS PM High Voltage	V	Master		1000	1626	2400	<div><div></div><div></div></div>
		Before		1000	1621	2400	<div><div></div><div></div></div>
		Before-Master	-----	-100	-5	100	<div><div></div><div></div></div>
SS PM High Voltage	V	Master		1000	1680	2400	<div><div></div><div></div></div>
		Before		1000	1698	2400	<div><div></div><div></div></div>
		Before-Master	-----	-100	18	100	<div><div></div><div></div></div>
LS PM High Voltage	V	Master		1000	1585	2400	<div><div></div><div></div></div>
		Before		1000	1580	2400	<div><div></div><div></div></div>
		Before-Master	-----	-100	-5	100	<div><div></div><div></div></div>
HDRS Density Calibration - Crystal Quality Resolutions							
Master (EEPROM):		16:18:56 18-Oct-2012		Before (Measured):		11:50:14 19-Oct-2012	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
BS Crystal Resolution	%	Master		5.00	11.86	25.00	<div><div></div><div></div></div>
		Before		5.00	11.85	25.00	<div><div></div><div></div></div>
		Before-Master	-----	-1.00	-0.01	1.00	<div><div></div><div></div></div>

		Before-Master After-Before	----- -----	----- -----	----- -----	----- -----	
Far Plus Measurement - 0	1/s	Master Before After Before-Master After-Before	2793.0 ----- ----- ----- -----	1900.0 ----- ----- ----- -----	2098.0 ----- ----- ----- -----	2900.0 ----- ----- ----- -----	
Near Corrected Plus Measurement - 0	1/s	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	4700.0 ----- ----- ----- -----	4976.0 ----- ----- ----- -----	6900.0 ----- ----- ----- -----	
Far Corrected Plus Measurement - 0	1/s	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	1900.0 ----- ----- ----- -----	2100.0 ----- ----- ----- -----	2900.0 ----- ----- ----- -----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		11:52:01 19-Oct-2012						After:	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit			
RGR Zero Measurement	gAPI	Before After After-Before	30.0 ----- -----	0 ----- -----	80.7 ----- -----	120.0 ----- -----			
RGR Plus Measurement	gAPI	Before After After-Before	185.4 ----- -----	157.1 ----- -----	178.0 NOT DONE -----	206.3 ----- -----			
GR Calibration Gain		Before After After-Before	0.89 ----- -----	0.80 ----- -----	0.93 ----- -----	1.05 ----- -----			

Company:

Vecta Oil & Gas Ltd

Schlumberger

Well:

Snowmass 44-32

Field:

Wildcat

County:

Cheyenne

Country:

USA

Platform Express

Triple Combo