

Company: Nighthawk Production LLC.

Well: Blackcomb 3-14

Field: Arikaree Creek

County: Lincoln Country: USA

County: Lincoln
Field: Arikaree Creek
Location: NENW: Sec.14, T6S, R54W
Well: Blackcomb 3-14
Company: Nighthawk Production LLC.

Platform Express Field Print

Triple Combo

Induction & Nuclear

Location:		Elev.:		K.B.		5234.00 ft	
NENW: Sec.14, T6S, R54W		SHL: 642' FNL & 2120' FWL		G.L.		5219.00 ft	
Lat: 39.534090 / Long:-103.409230		D.F.		5233.00 ft			
Permanent Datum:		Ground Level		Elev.:		5219.00 f	
Log Measured From:		Kelly Bushing		15.00 ft		above Perm.Datum	
Drilling Measured From:		Kelly Bushing					
API Serial No.		Section:		Township:		Range:	
05-073-06602-0000		14		6S		54W	

Logging Date 27-Oct-2014

Run Number ONE_A

Depth Driller 8271.00 ft

Schlumberger Depth 8283.50 ft

Bottom Log Interval 8283.50 ft

Top Log Interval 368.75 ft

Casing Driller Size @ Depth 8.625 in @ 368.00 ft

Casing Schlumberger 368.75 ft

Bit Size 7.875 in

Type Fluid In Hole WBM

Density 9 lbm/gal 77 s

Fluid Loss PH 5.2 cm3 8.5

Source of Sample Active Tank

RM @ Meas Temp 1.27 ohm.m @ 65.8 degF

RMF @ Meas Temp 0.85 ohm.m @ 75 degF

RMC @ Meas Temp 1.69 ohm.m @ 75 degF

Source RMF RMC Calculated Calculated

RM @ BHT RMF @ BHT 0.5 @ 178 0.38 @ 178

Max Recorded Temperatures 186 degF

Circulation Stopped 26-Oct-2014 19:00:00

Logger on Bottom 27-Oct-2014 06:30:00

Unit Number 2135

Recorded By Nolan Welsh

Witnessed By Lynn Gibbs

Disclaimer

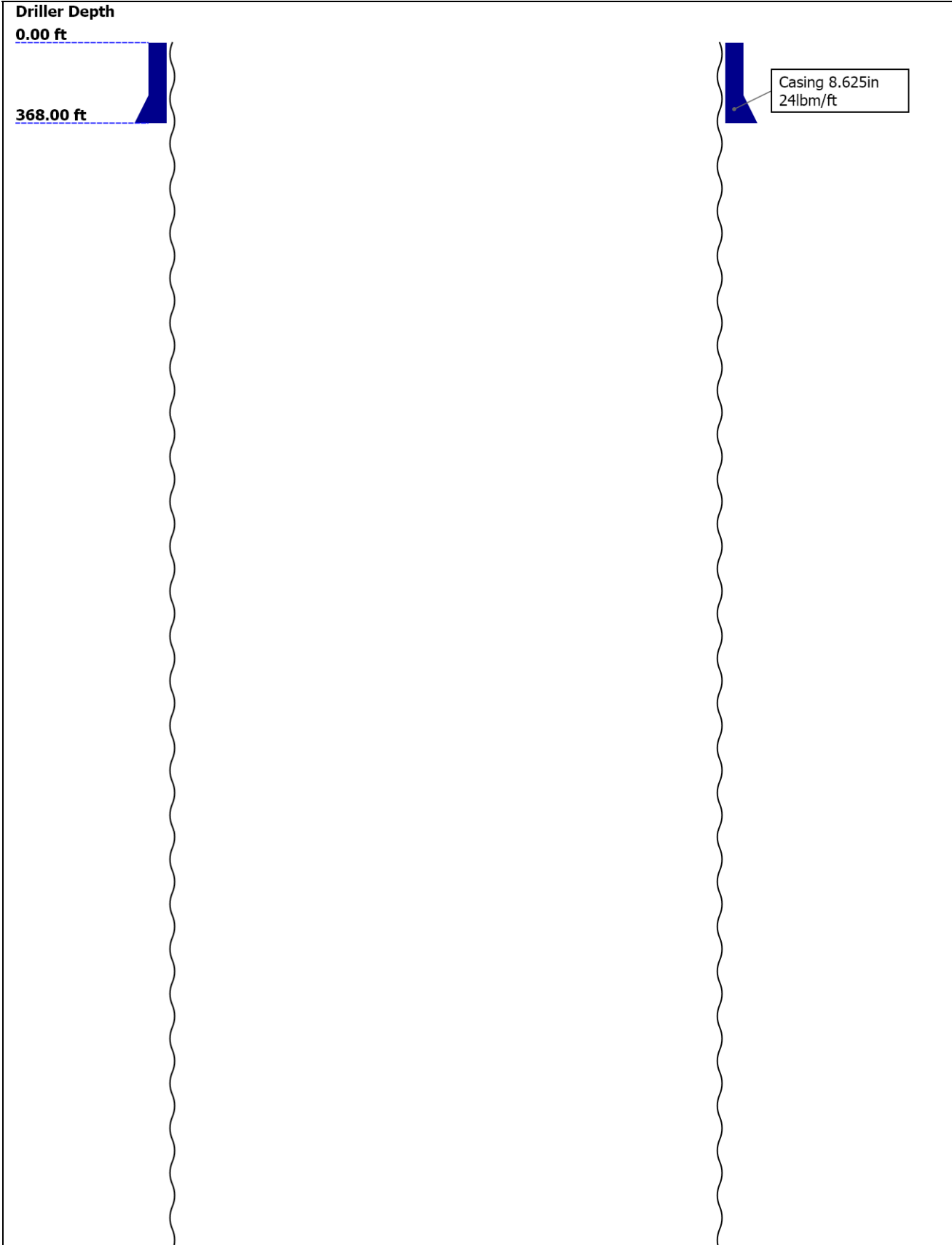
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Well Sketch





Borehole Size/Casing/Tubing Record						
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Bit						
Bit Size (in)	7.875					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	8271					
Bottom Logger (ft)	8283.5					
Casing						
Size (in)	8.625					
Weight (lbm/ft)	24					
Inner Diameter (in)	8.097					
Grade	J55					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	368					
Bottom Logger (ft)	368.75					

Operational Run Summary						
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Parameter (unit)	ONE_A					
Date Log Started	27-Oct-2014					
Time Log Started	04:35:27					
Date Log Finished	27-Oct-2014					
Time Log Finished	13:03:35					
Top Log Interval (ft)	368.75					
Bottom Log Interval (ft)	8283.50					
Total Depth (ft)	8283.50					
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	7.875					
Logging Unit Number	2135					
Logging Unit Location	Fort Morgan					
Recorded By	Nolan Welsh					
Witnessed By	Lynn Gibbs					
Service Order Number	CXPX-00043					

Service Order Number		CXPTX-00043					
Borehole Fluids							
Parameter(unit)	ONE_A						
Fluid Type	Water						
Fluid Name	WBM						
Max Recorded Temperatures (degF)	186						
Source of Sample	Active Tank						
Salinity (ppm)	1400						
Density (lbm/gal)	9						
Funnel Viscosity (s)	77						
Fluid Loss (cm3)	5.2						
PH	8.5						
Date/Time Circulation Stopped	26-Oct-2014 19:00:00						
Date Logger on Bottom	27-Oct-2014						
Time Logger on Bottom	06:30:00						
Source RMF	Calculated						
RMC	Calculated						
RM @ Meas Temp (ohm.m@degF)	1.27 @ 65.8						
RMF @ Meas Temp (ohm.m@degF)	0.85 @ 75						
RMC @ Meas Temp (ohm.m@degF)	1.69 @ 75						
RM @ BHT (ohm.m@degF)	0.5 @ 178						
RMF @ BHT (ohm.m@degF)	0.38 @ 178						
RMC @ BHT (ohm.m@degF)	0.75 @ 178						
Total Solid (%)							
High Gravity Solids (%)							
Remarks and Equipment Summary							
ONE_A: Toolstring			ONE_A: Remarks				
Equip name	Length	MP name	Offset	This is the first run in the hole.			
LEH-QT	102.85			Toolstring run as per tool sketch.			
LEH-QT				Tool readings affected by borehole rugosity.			
EDTC-B	99.93			Matrix: Limestone. MDEN: 2.71 g/cm3			
EDTH-B				Crew: Alonzo Carrera			
EDTG-A							
EDTC-B							
		CTEM	96.43				
		ACCZ	0.00				
		HV	0.00				
		Gamma Ray	94.56				
		TelStatus	93.43				
PPC-B:8193	93.43						
PPC-B:8193		PPC-B Calipers	92.29				

CMRT-B:02 86.92
CMRC:156
CMRH:156
CMRS:02

CMRT 73.27

ILE-F 71.33

AH-184[2] 63.33

AH-184[1] 61.33

LDSC-B:492 59.33
LDSD-A:363
LDSC-B:492

Tel Status 57.58

ECS-A:19 55.83
ECSD-A:008
ECSD-A
NSR-F
ECS-A:19

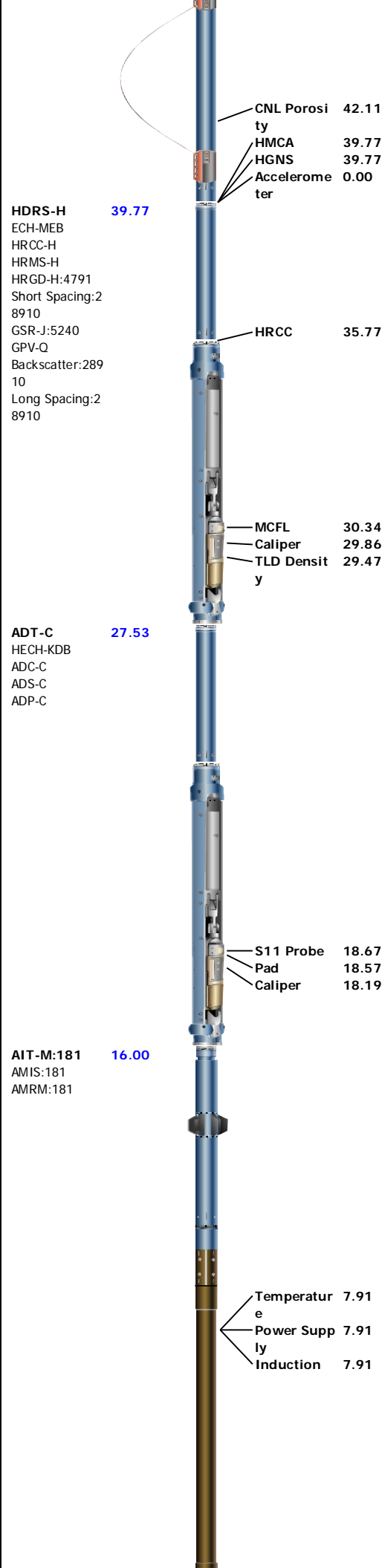
Detector 54.55

HGNS-H 49.18

Temperature 49.16

GR 48.44

HGNS-H
HACCZ-H:6991
HMCA-H



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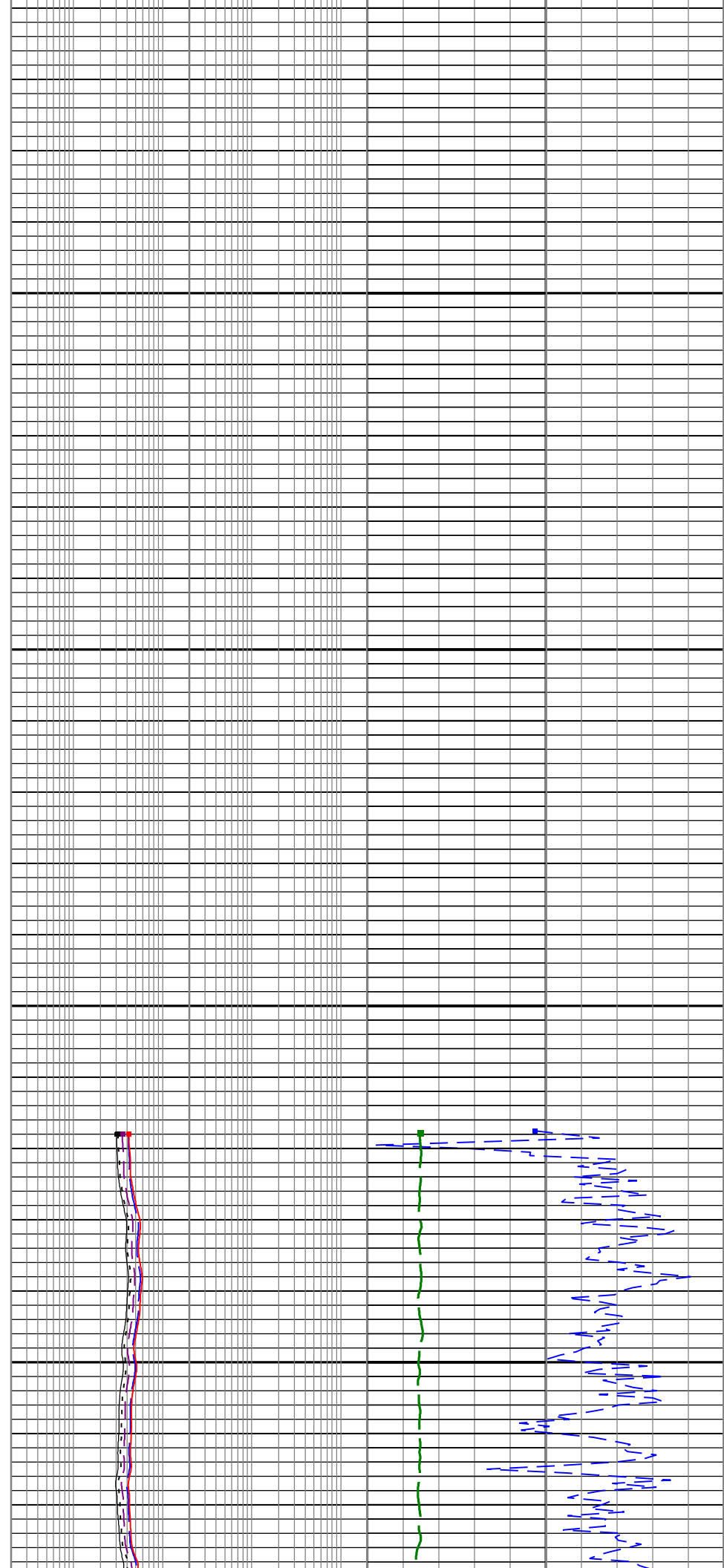
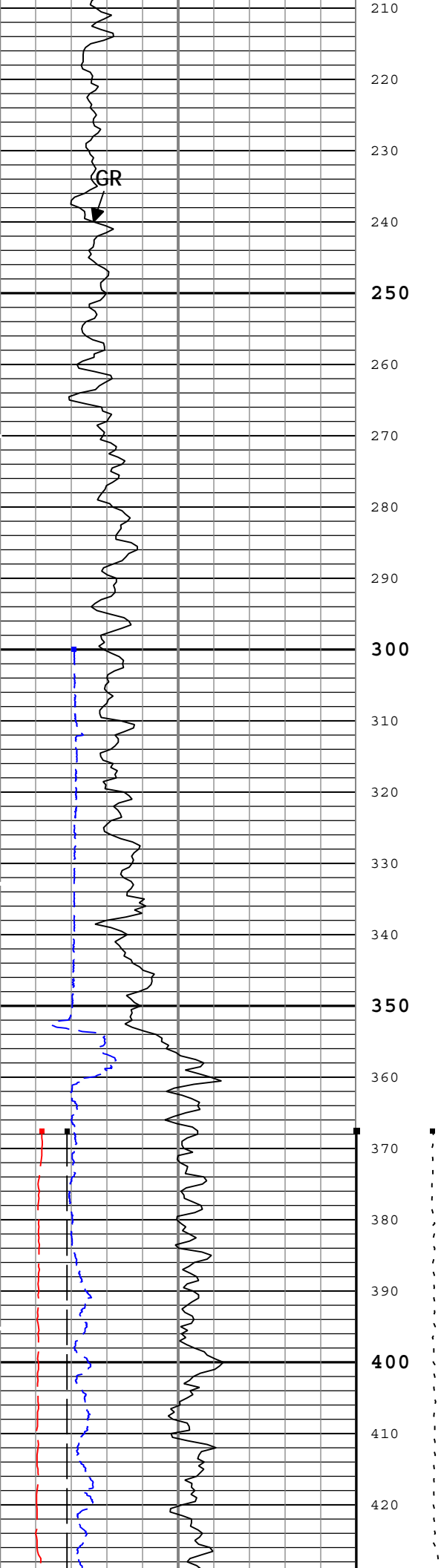
Depth Summary				
		ONE_A		
Depth Measuring Device				
Type	IDW-JA			
Serial Number				
Calibration Date	04-Jul-2014			
Calibrator Serial Number				
Calibration Cable Type	7-46A-XS			
Wheel Correction 1	-4			
Wheel Correction 2	-3			
Tension Device				
Type	CMTD-B/A			
Serial Number	78135A			
Calibration Date	19-OCT-2014			
Calibrator Serial Number				
Number of Calibration Points	10			
Calibration Root Mean Square Error	78			
Calibration Peak Error	130			
Logging Cable				
Type	7-46A-XS			
Serial Number				
Length	18500.00 ft			
Conveyance Type	Wireline			
Rig Type	Land			
ONE_A:Depth Control Parameters			Depth Control Remarks	
Log Sequence	First Log In the Well		All Schlumberger depth 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				
Tool Zero Check At Surface				

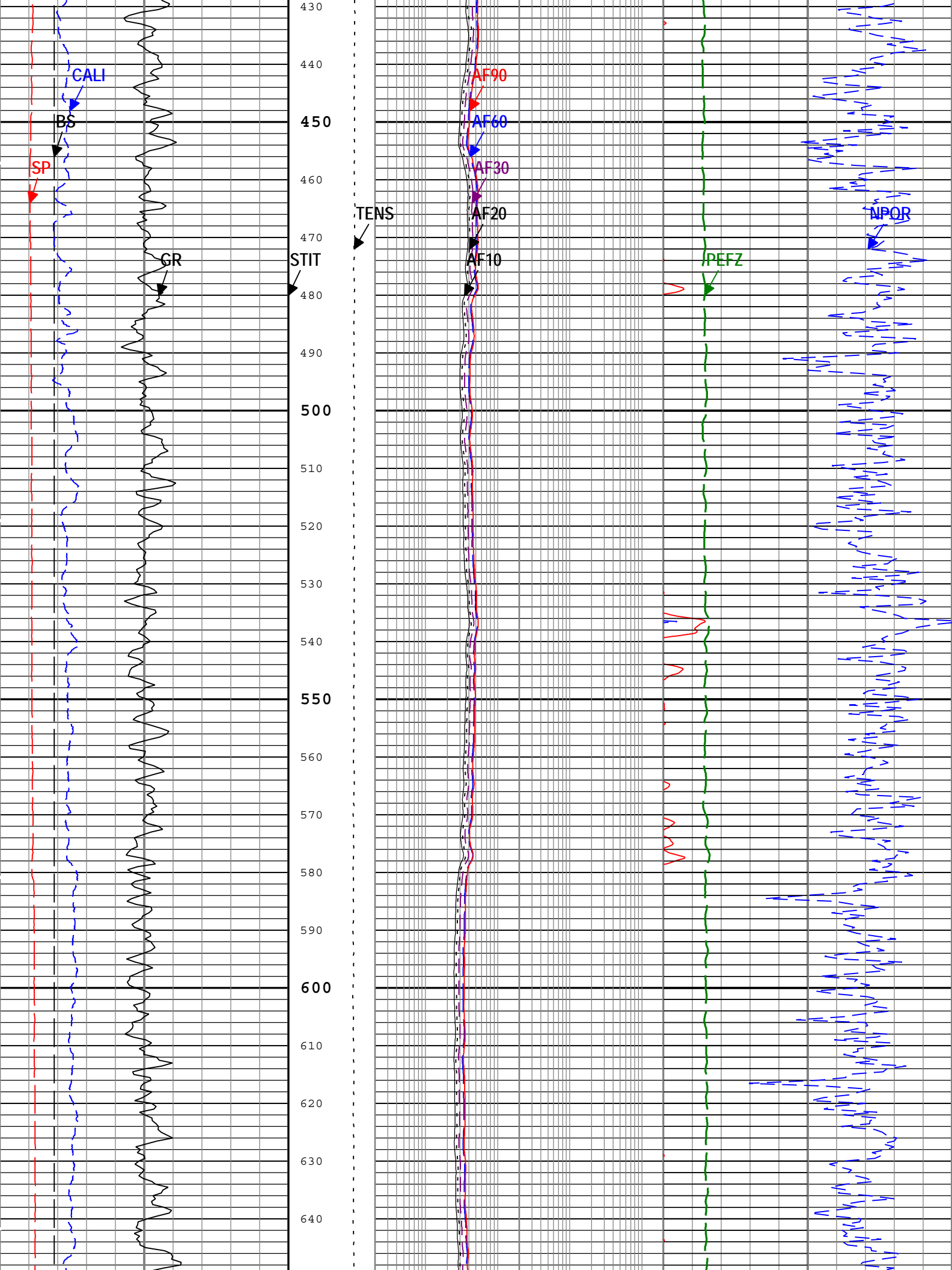
Survey Record									
Survey Calculation									
Method :		Minimum Radius of Curvature		DLS Method :		Lubinski			
North Reference :		True North		Total Correction Formula :		Magnetic Dec			
Rig Location									
Latitude :		39.534090 degrees		Longitude :		-103.40923 degrees			
Tie In Point									
Measured Depth:		0.00 ft	Inclination:		0.00 deg	Azimuth:		0.00 deg	
True Vertical Depth:		0.00 ft	North Displacement:		0.00 ft	East Displacement:		0.00 ft	
Survey Quality Index									
28 : Tie-In Point									
Survey Correction Index									
0 : No correction									
Survey Description Index									
0 : Not Flagged Survey									

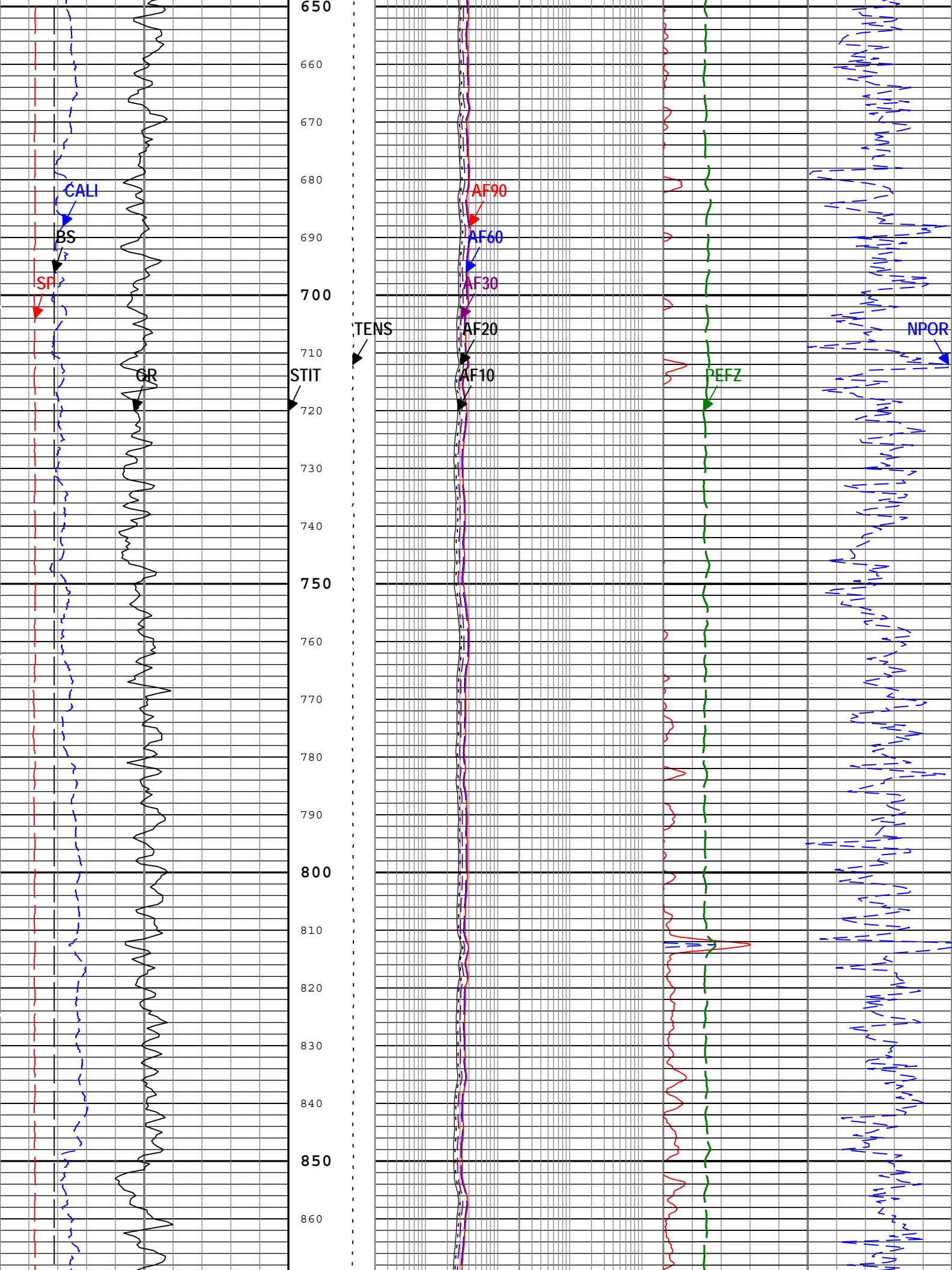
Seq	MD	Incl	Azim	Course	TVD	V Sec	N/ -S	E/ -W	Closure	at Azim	DLS	Tool Type	QI	CI	DI
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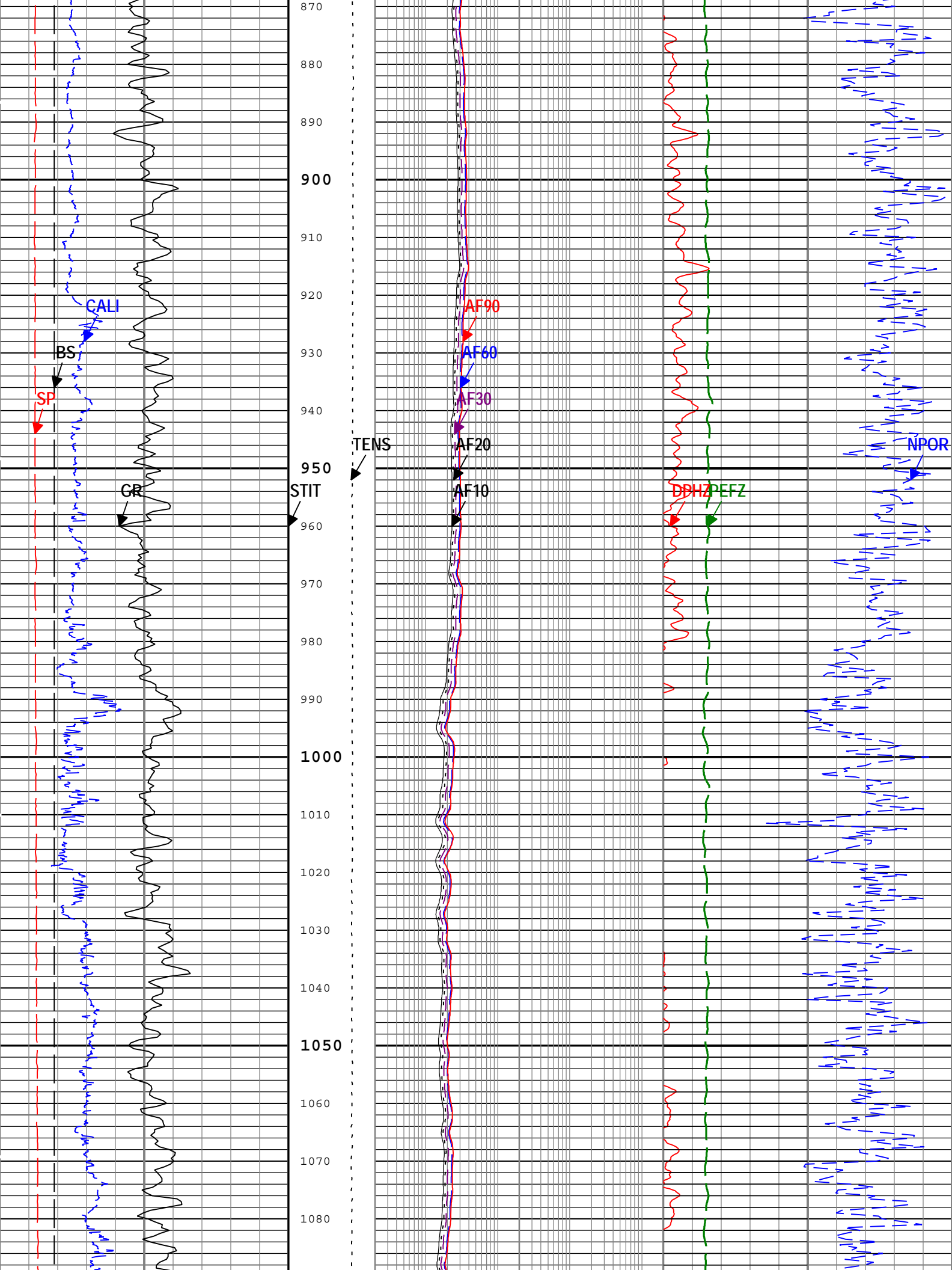
	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	deg/100ft					
1	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
Main Pass															
5" Triple Combo															
Software Version															
Acquisition System									Version						
MaxWell									4.0.9163.3000						
Application Patch									Patch-SP-10767_18214-4.0.9163.3001						
									Patch-Hotfix_Task_Tree_GDI_SP2-20806-4.0.9434.3002						
Computation			Description									Version			
Borehole			Borehole Ensemble provides common Borehole Parameters and Channels									4.0.9469.3000			
HENVIR			Computation Ensemble for the HGNS Neutron environmental corrections									4.0.9469.3000			
DepthCorrection			DepthCorrection									4.0.9469.3000			
Tool Elements			Description					Software Version			Firmware Version				
HRCC-H			HILT High-Resolution Control Cartridge, 150 degC					4.0.9575.3000			2.0				
HGNS-H			HILT Gamma-Ray and Neutron Sonde, 150 degC					4.0.9575.3000			2.0				
HRGD-H			HILT Resistivity Gamma-Ray Density Device, 150 degC					4.0.9575.3000			3.0				
AMIS			Array Induction Sonde - M					4.0.9535.3000			1				
EDTC-B			Enhanced Digital Telemetry Cartridge - B					4.0.9469.3000							
Composite Summary															
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data						
ONE_A	Log[3]:Up	Up	1675.86 ft	8308.34 ft	27-Oct-2014 7:30:18 AM	27-Oct-2014 12:14:16 PM	ON	17.25 ft	No						
ONE_A	Log[4]:Up	Up	149.63 ft	1752.72 ft	27-Oct-2014 12:32:36 PM	27-Oct-2014 1:03:19 PM	ON	0.00 ft	No						
All depths are referenced to toolstring zero															
Log	Company:Nighthawk Production LLC. Well:Blackcomb 3-14 Main Pass:S016														
Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo Linear) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 27-Oct-2014 15:20:31															
Channel	Source				Sampling										
AF10	AIT_SpliceGroup[1]:AMIS[1]:AMIS[1]				3in										
AF20	AIT_SpliceGroup[1]:AMIS[1]:AMIS[1]				3in										
AF30	AIT_SpliceGroup[1]:AMIS[1]:AMIS[1]				3in										
AF60	AIT_SpliceGroup[1]:AMIS[1]:AMIS[1]				3in										
AF90	AIT_SpliceGroup[1]:AMIS[1]:AMIS[1]				3in										
BS	Borehole				6in										
CALI	HDRS[1]:HRCC-H[1]:HRCC-H[1]				1in										
DPHZ	HDRS[1]:HRMS-H[1]:HRGD-H[1]				2in										
GR	EDTC-B[1]:EDTC-B[1]:EDTC-B[1]				6in										
NPOR	HGNS[1]:HGNS-H[1]:HGNS-H[1]				6in										
PEFZ	HDRS[1]:HRMS-H[1]:HRGD-H[1]				2in										
SP	AIT_SpliceGroup[1]:AMIS[1]:AMIS[1]				6in										
STIT	DepthCorrection				6in										
TENS	WLWorkflow				6in										
TIME_1900	WLWorkflow				0.1in										
TIME_1900 - Time Marked every 60.00 (s)															
Array Induction Four Foot Resistivity A10 (AF10) AIT_SpliceGroup[1]															

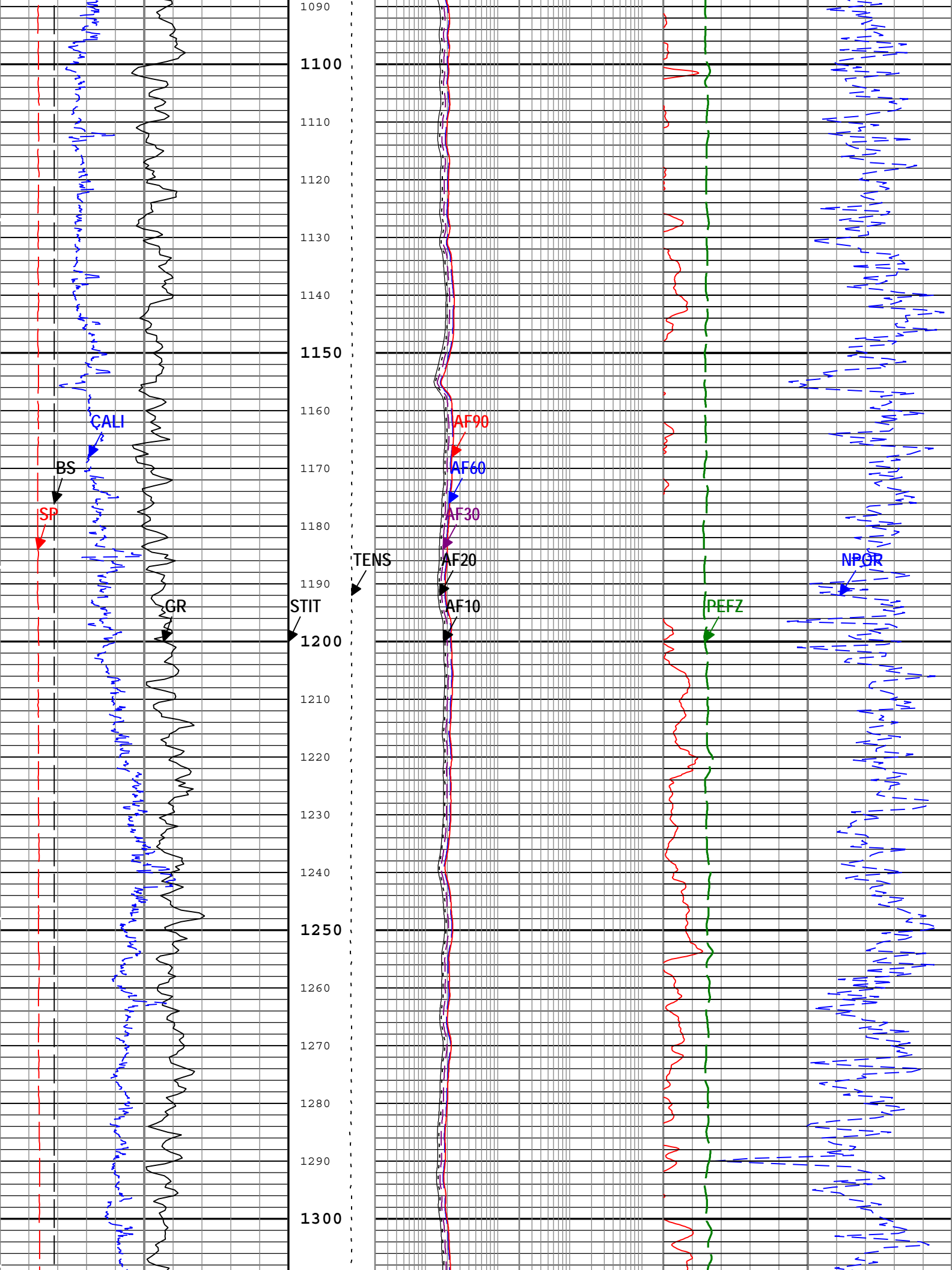
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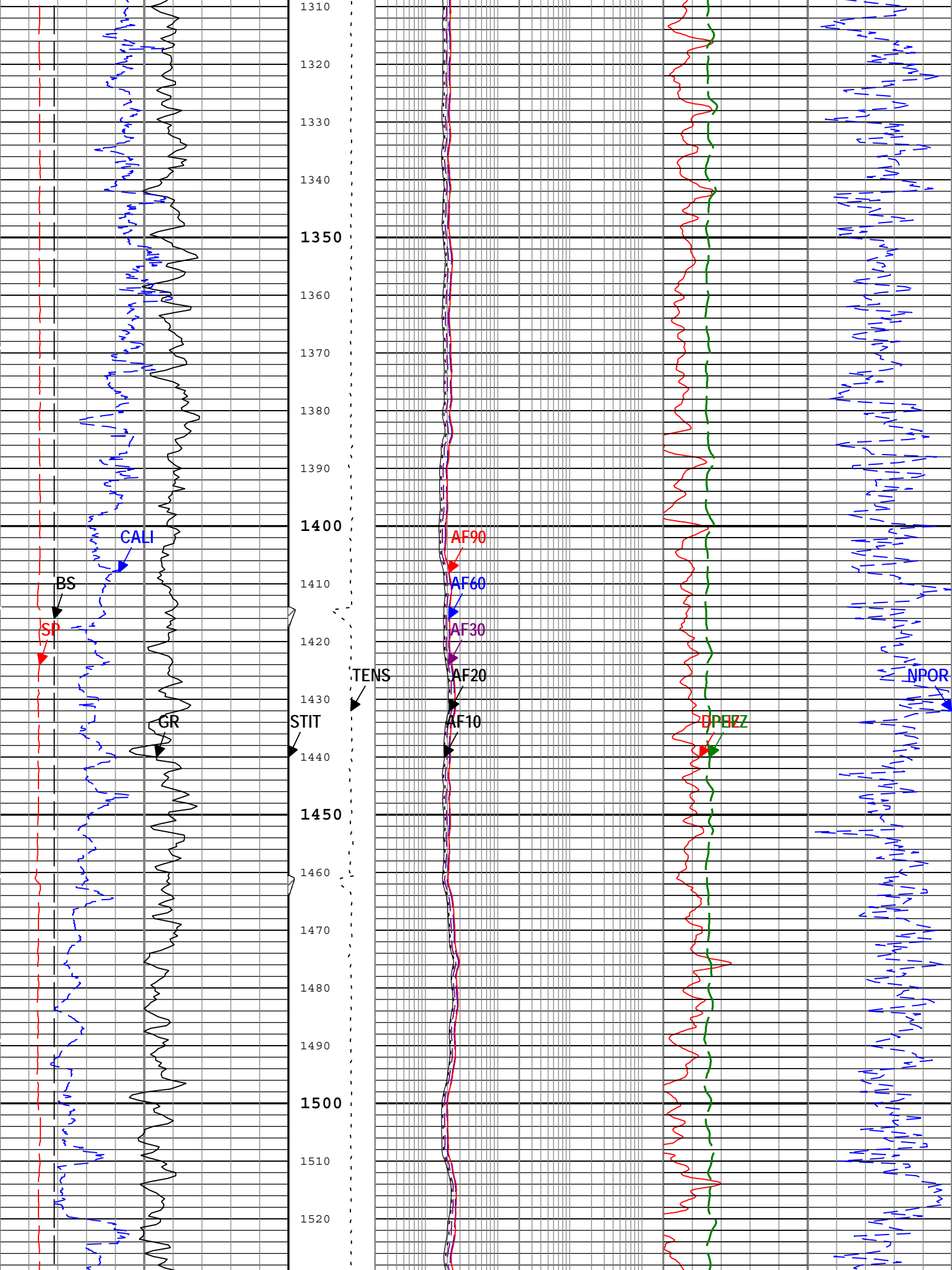


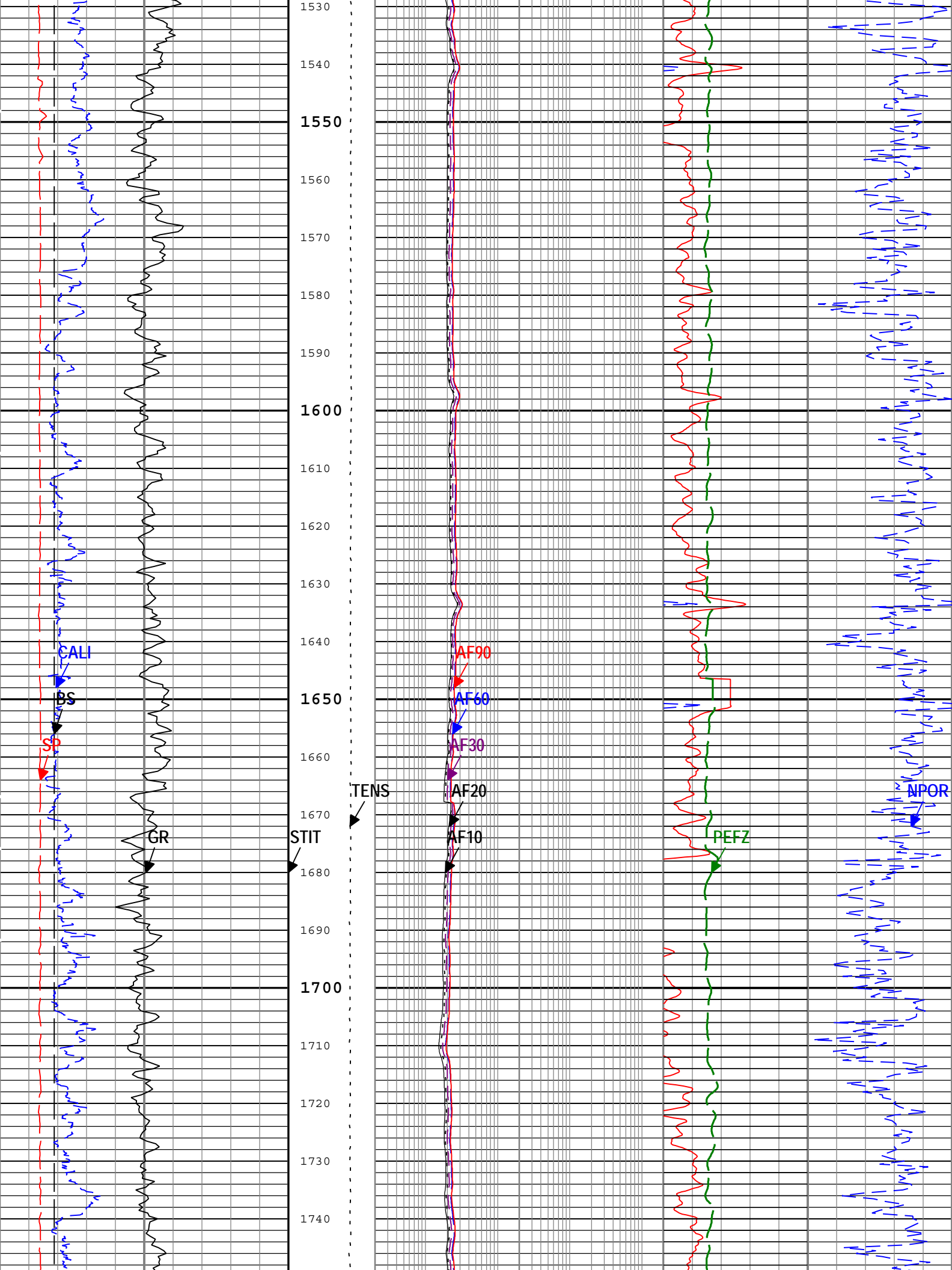


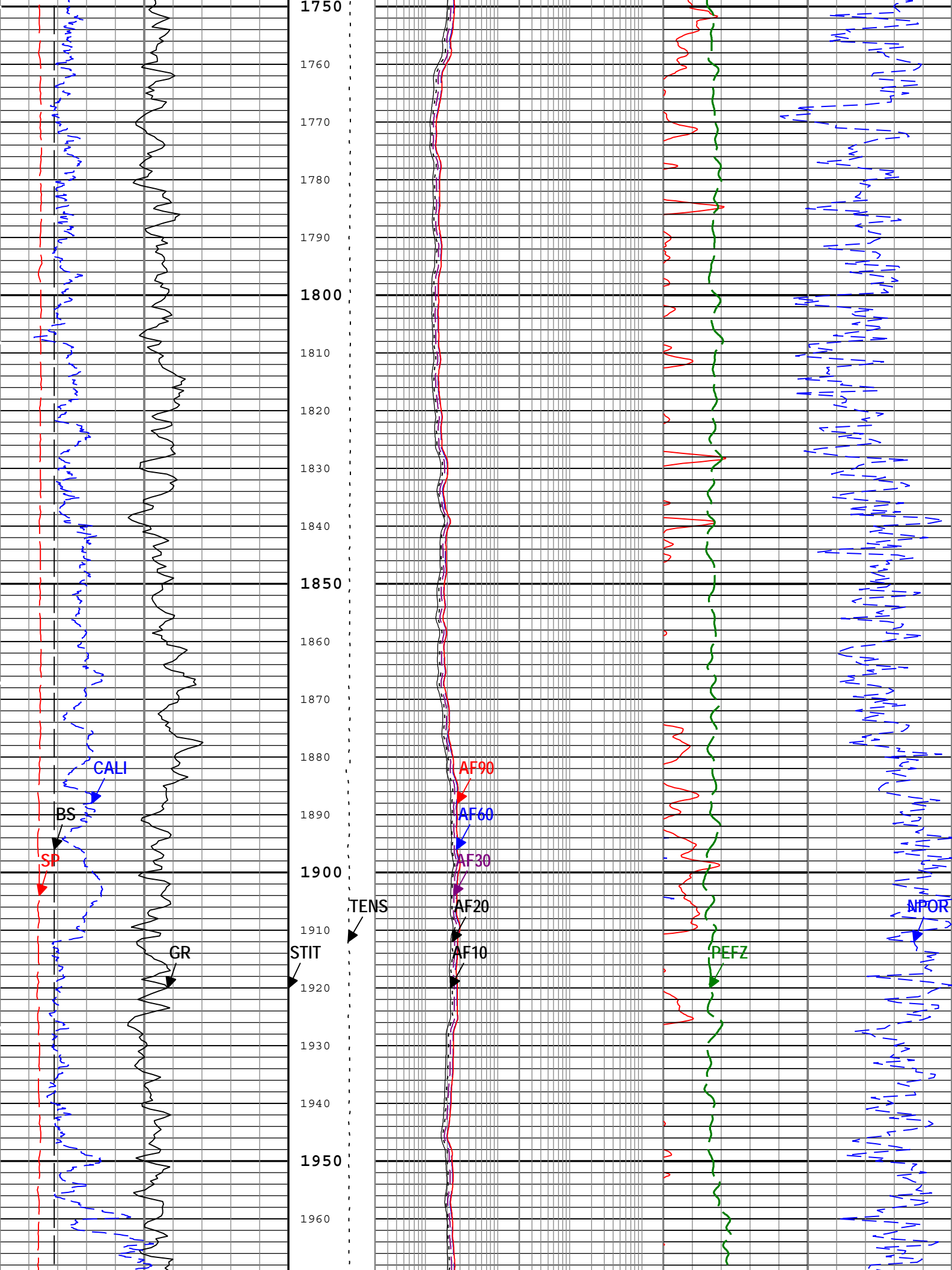


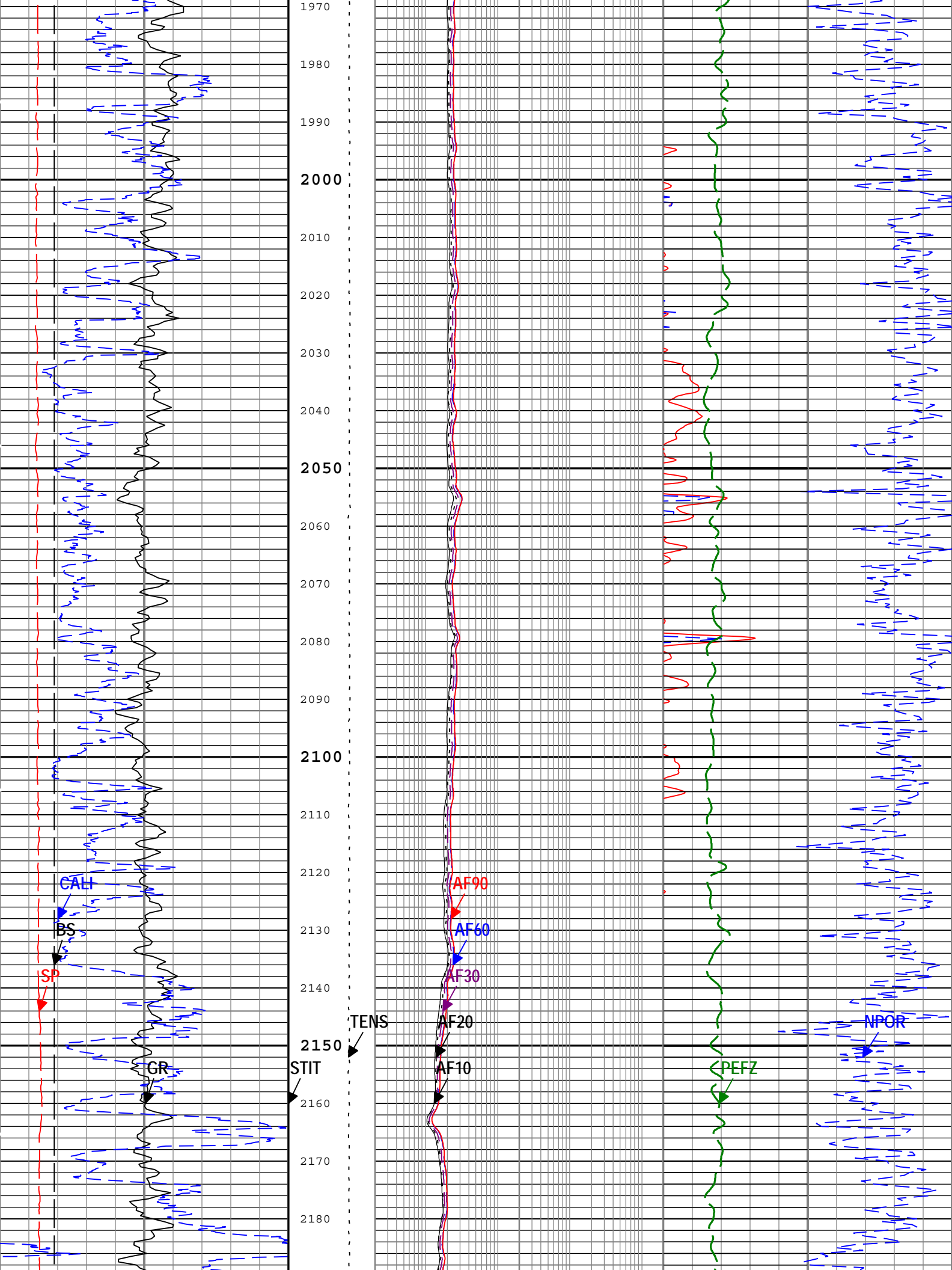


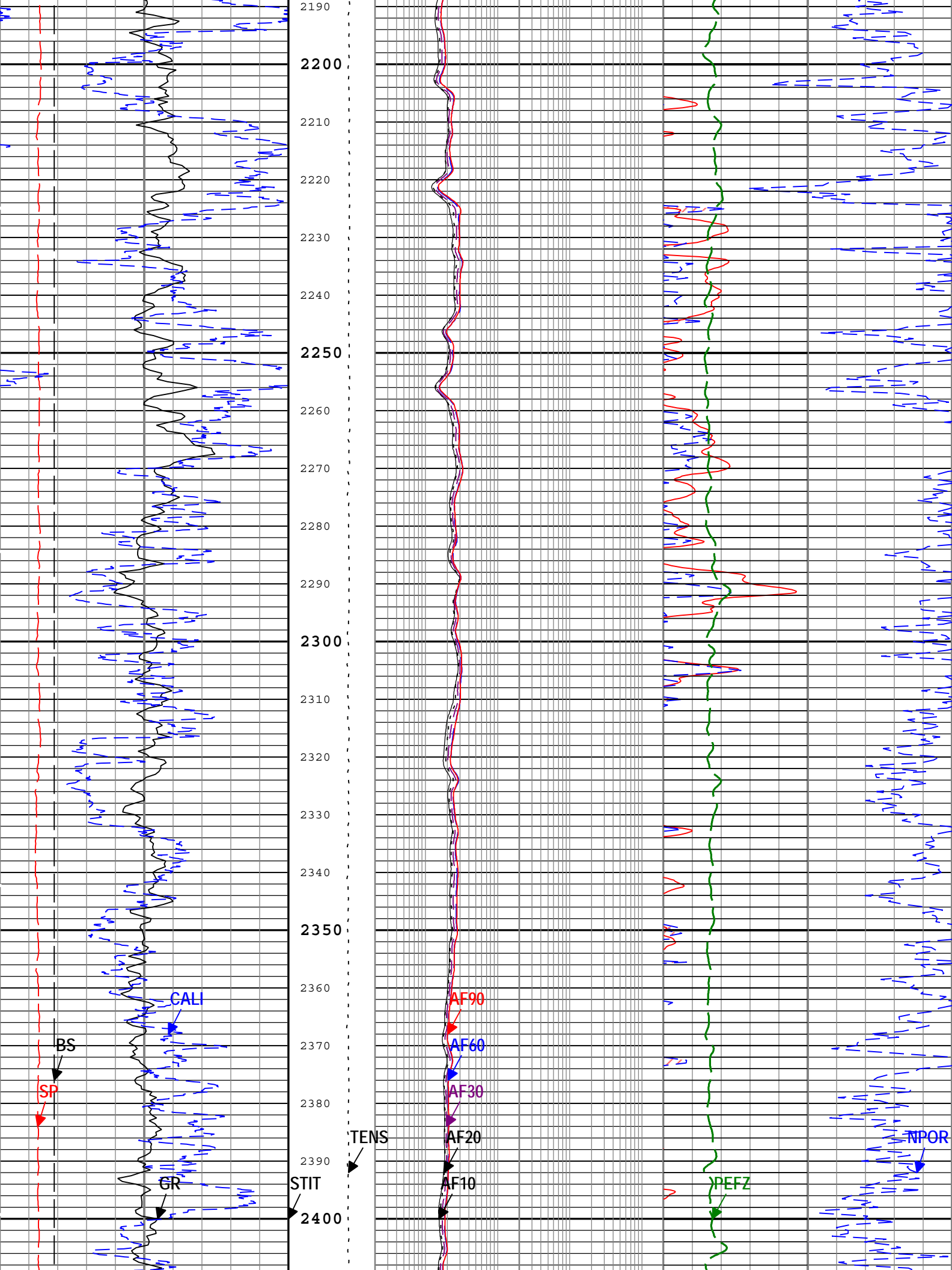


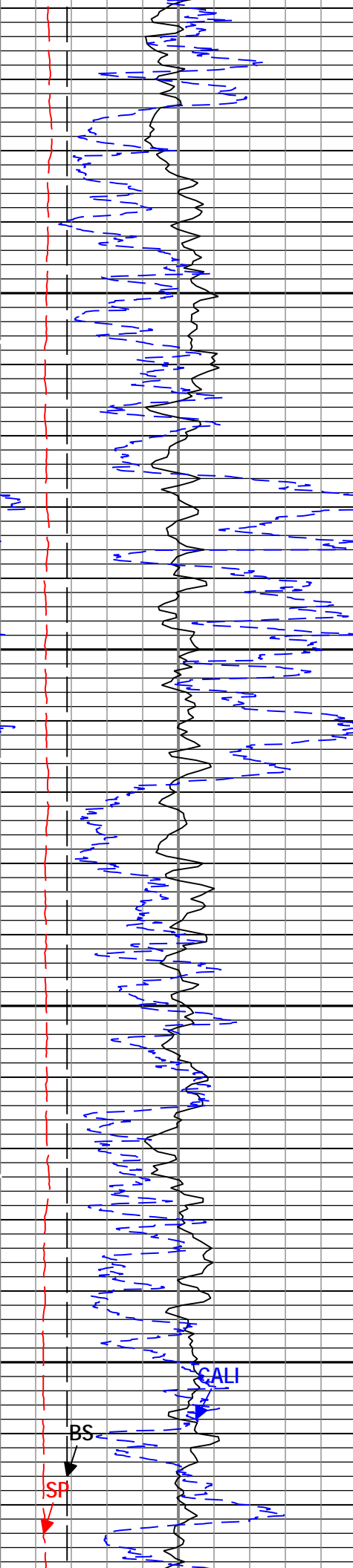




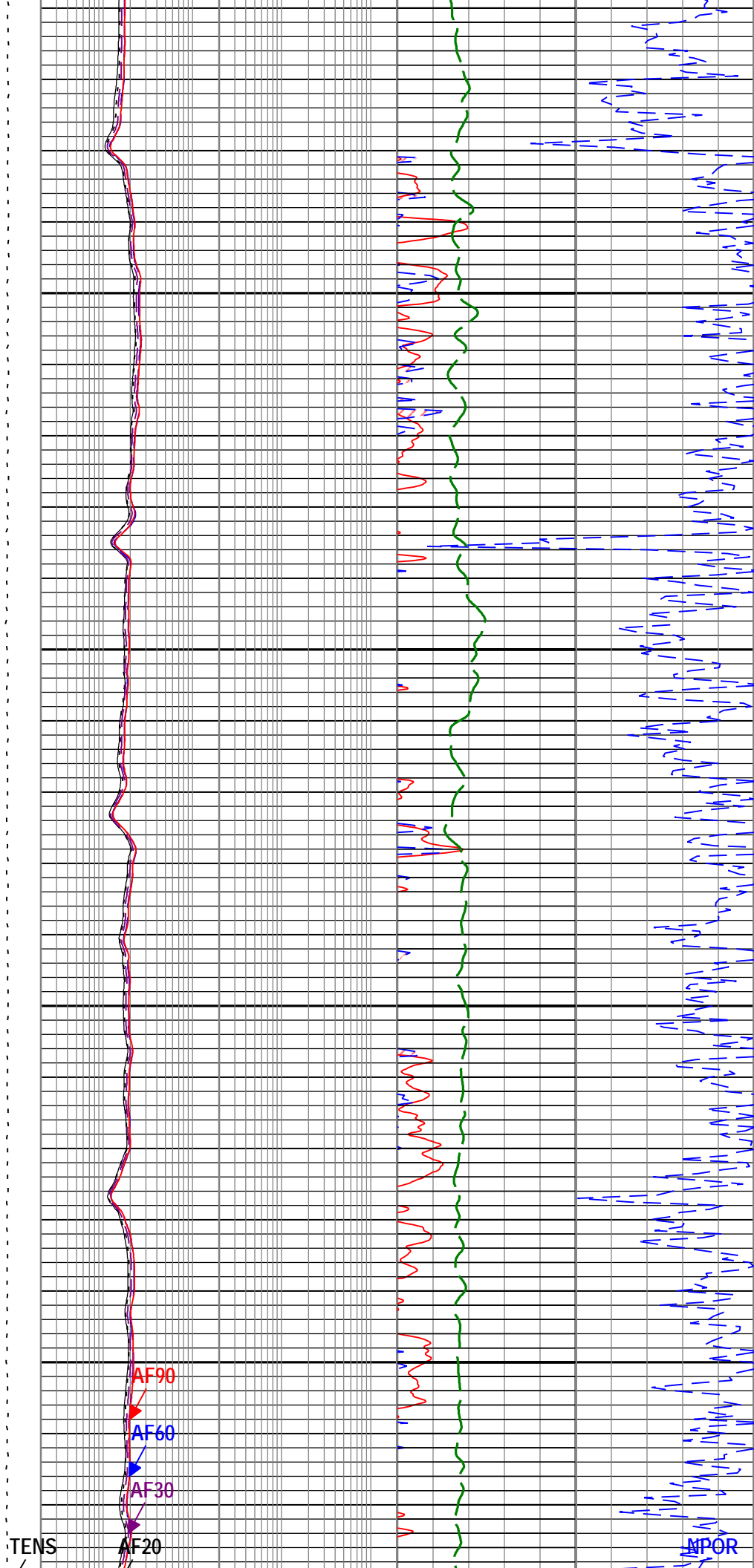


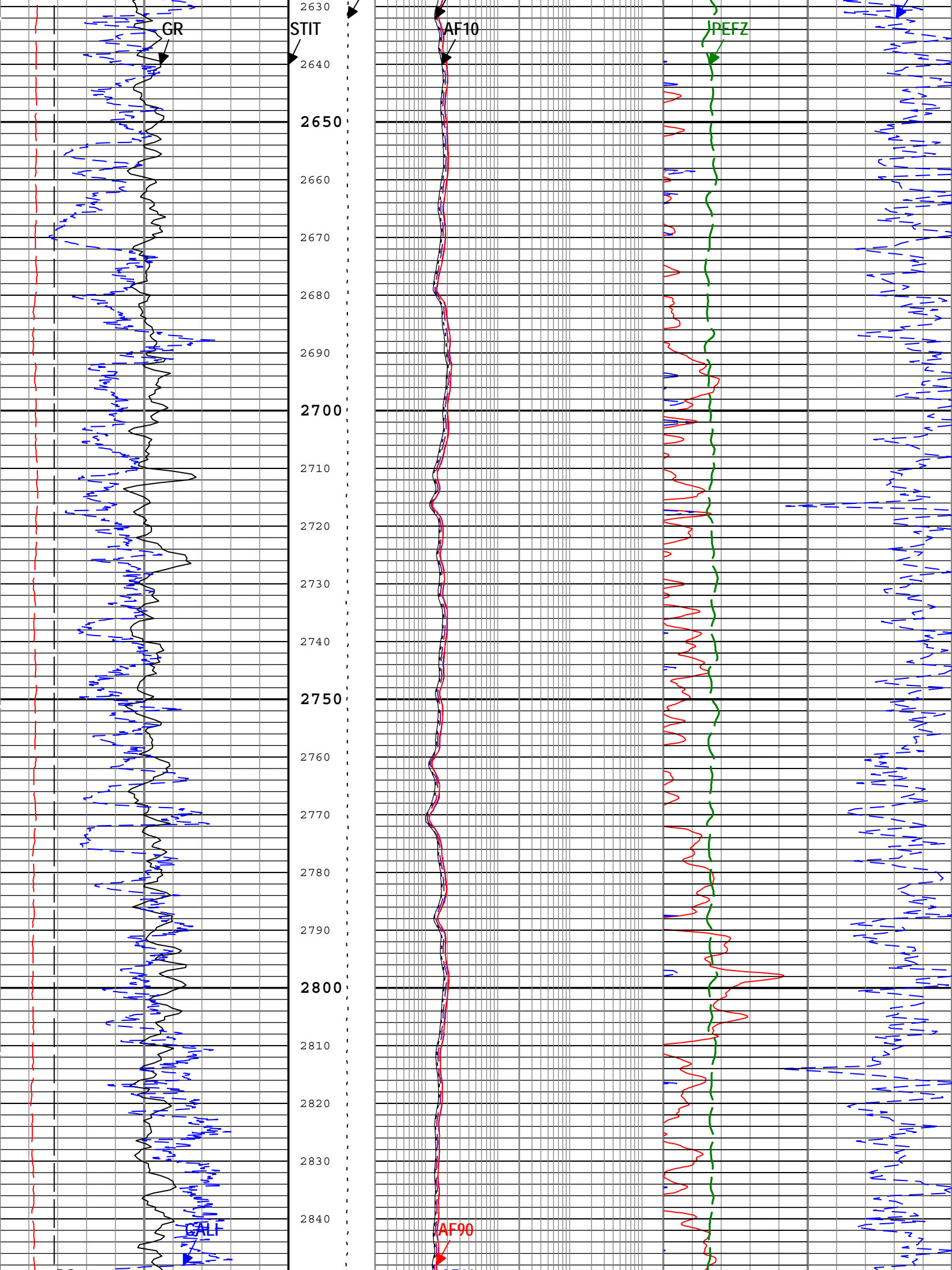


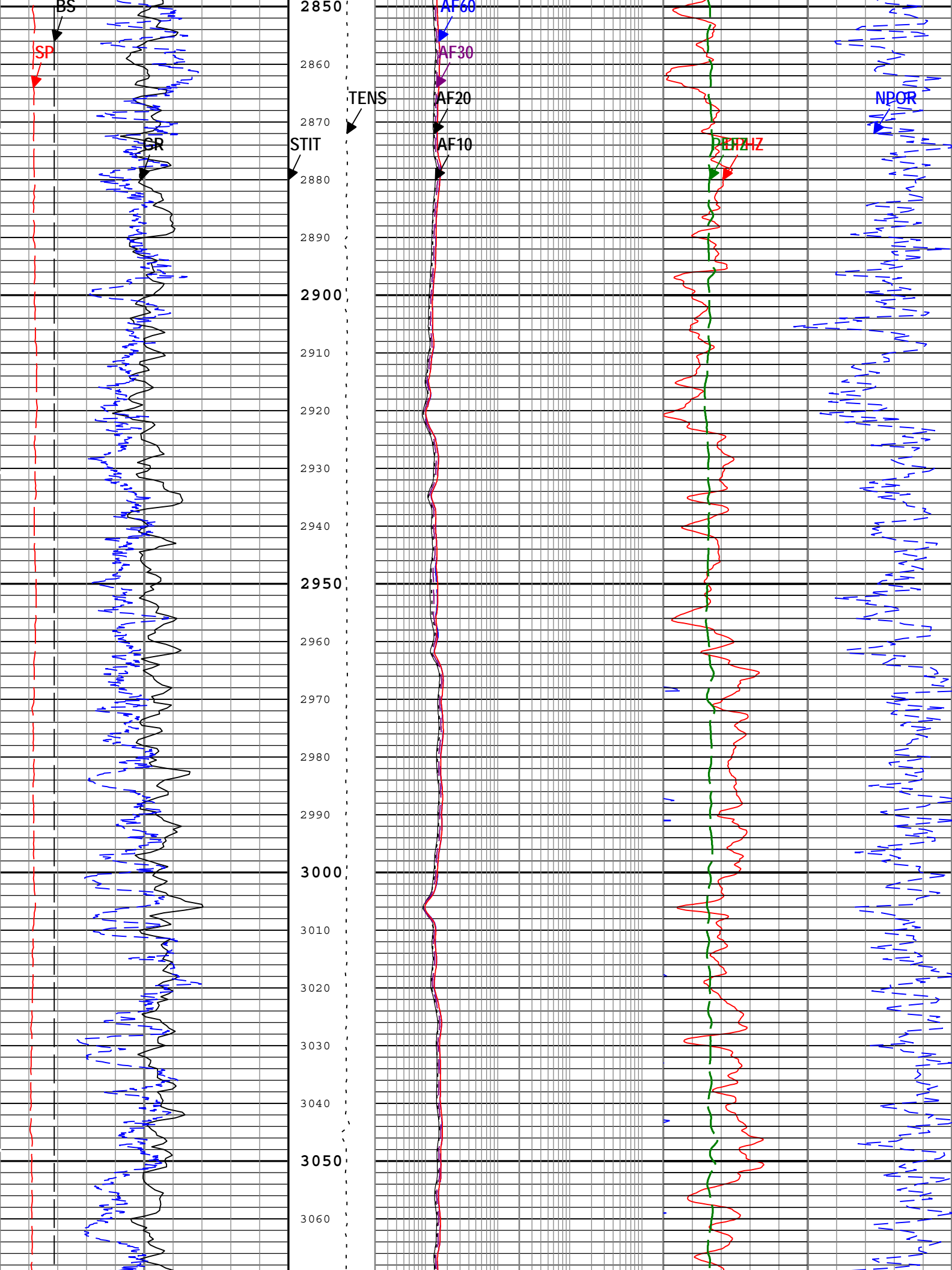


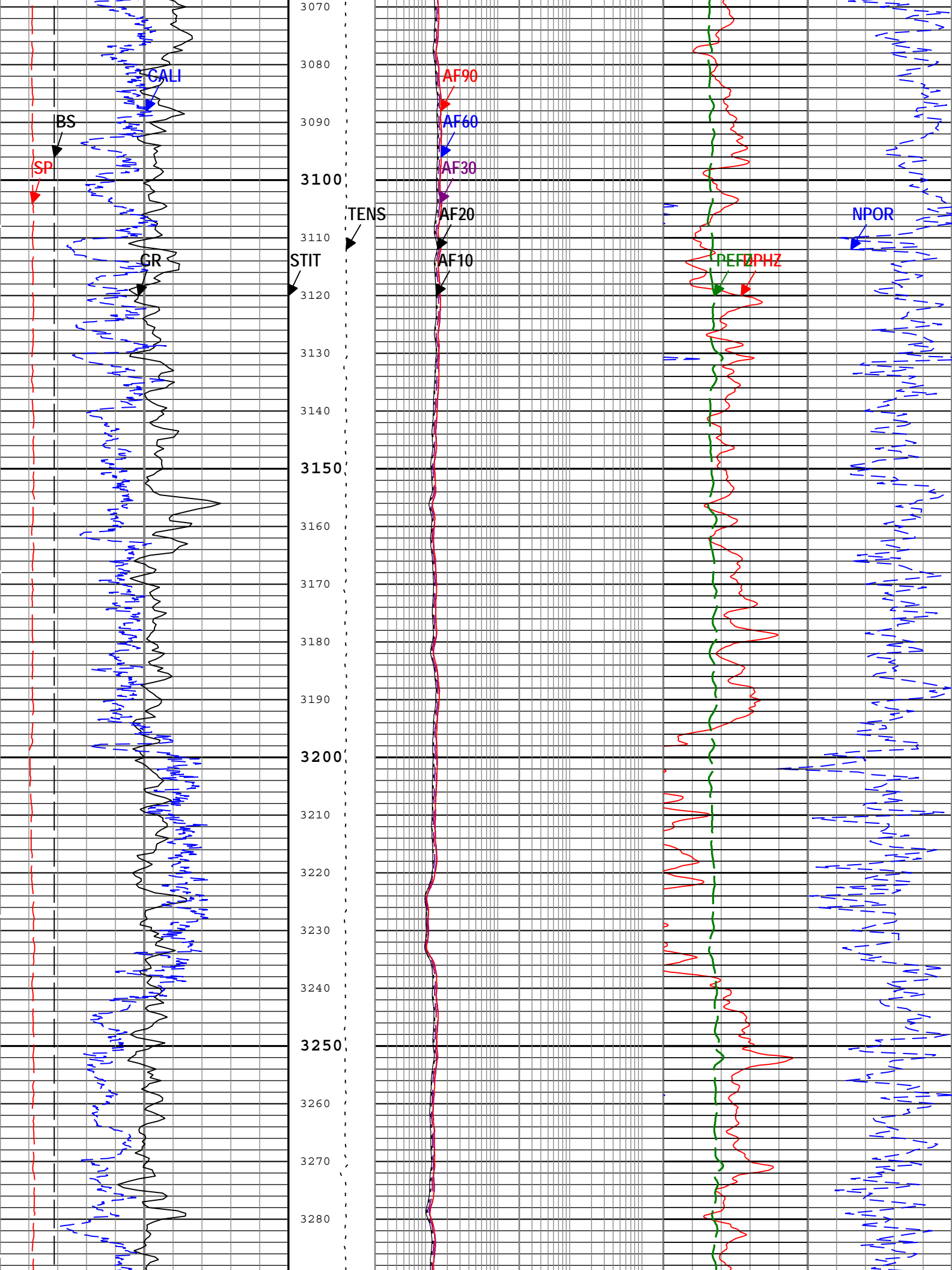


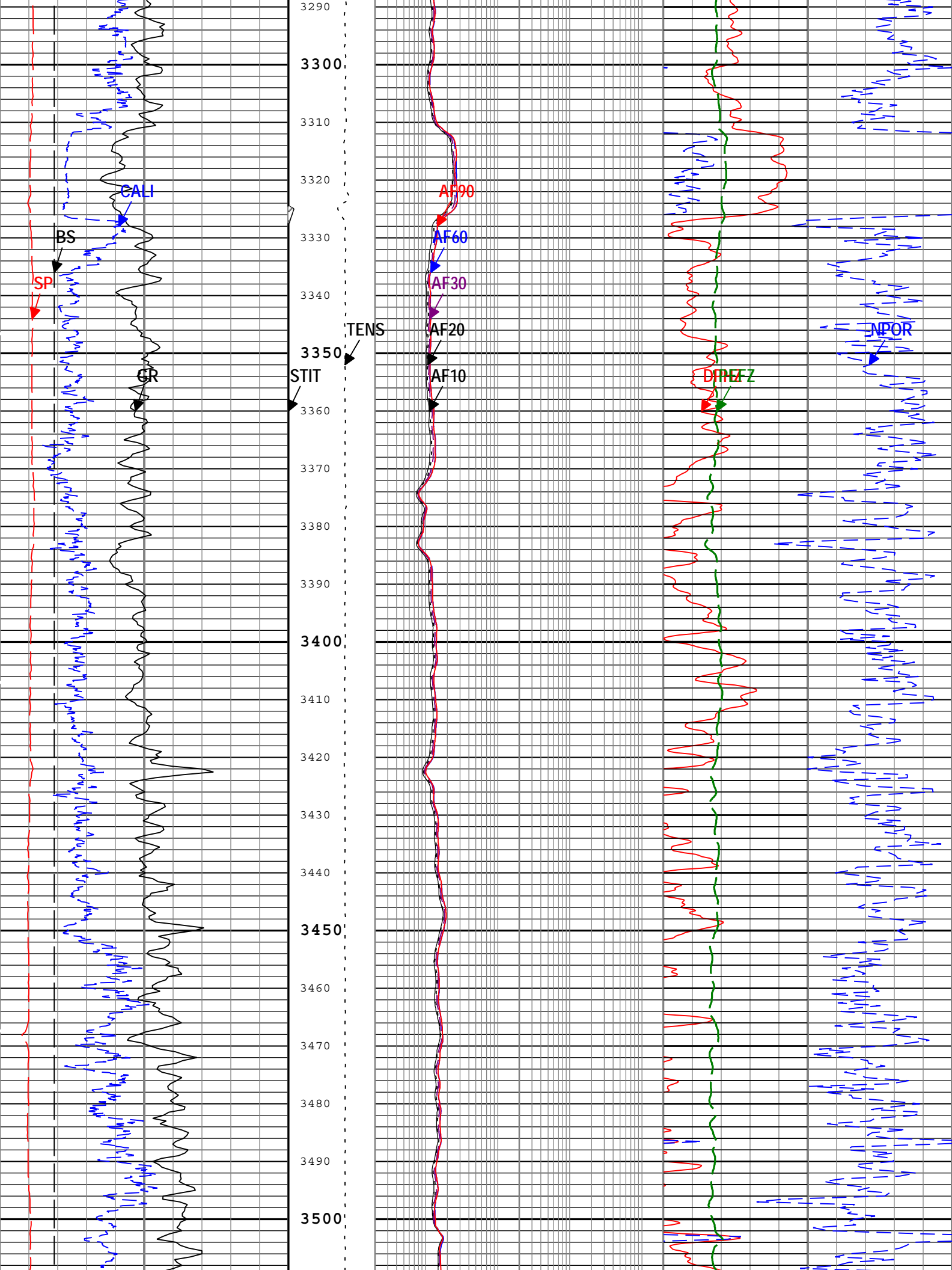
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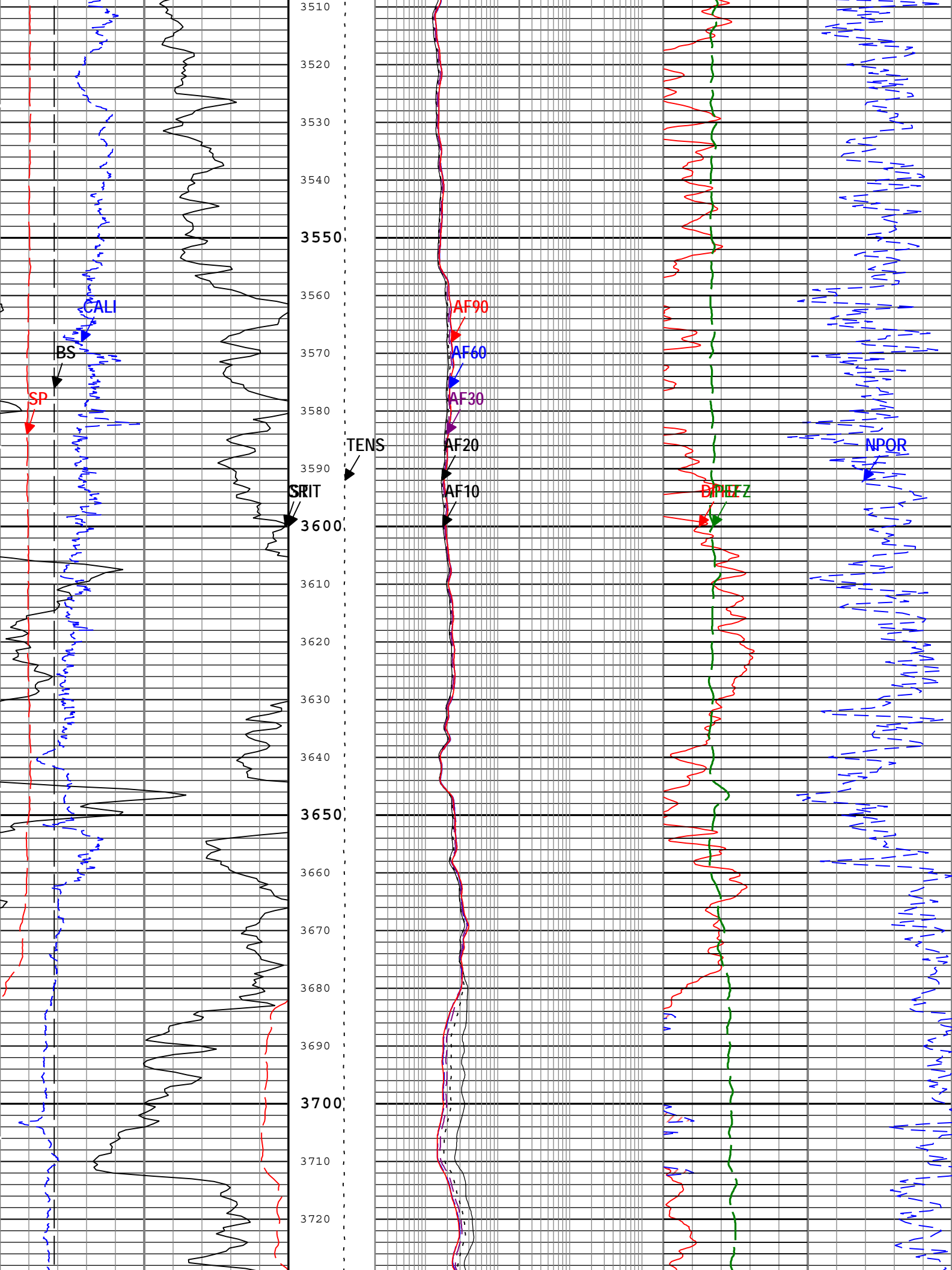


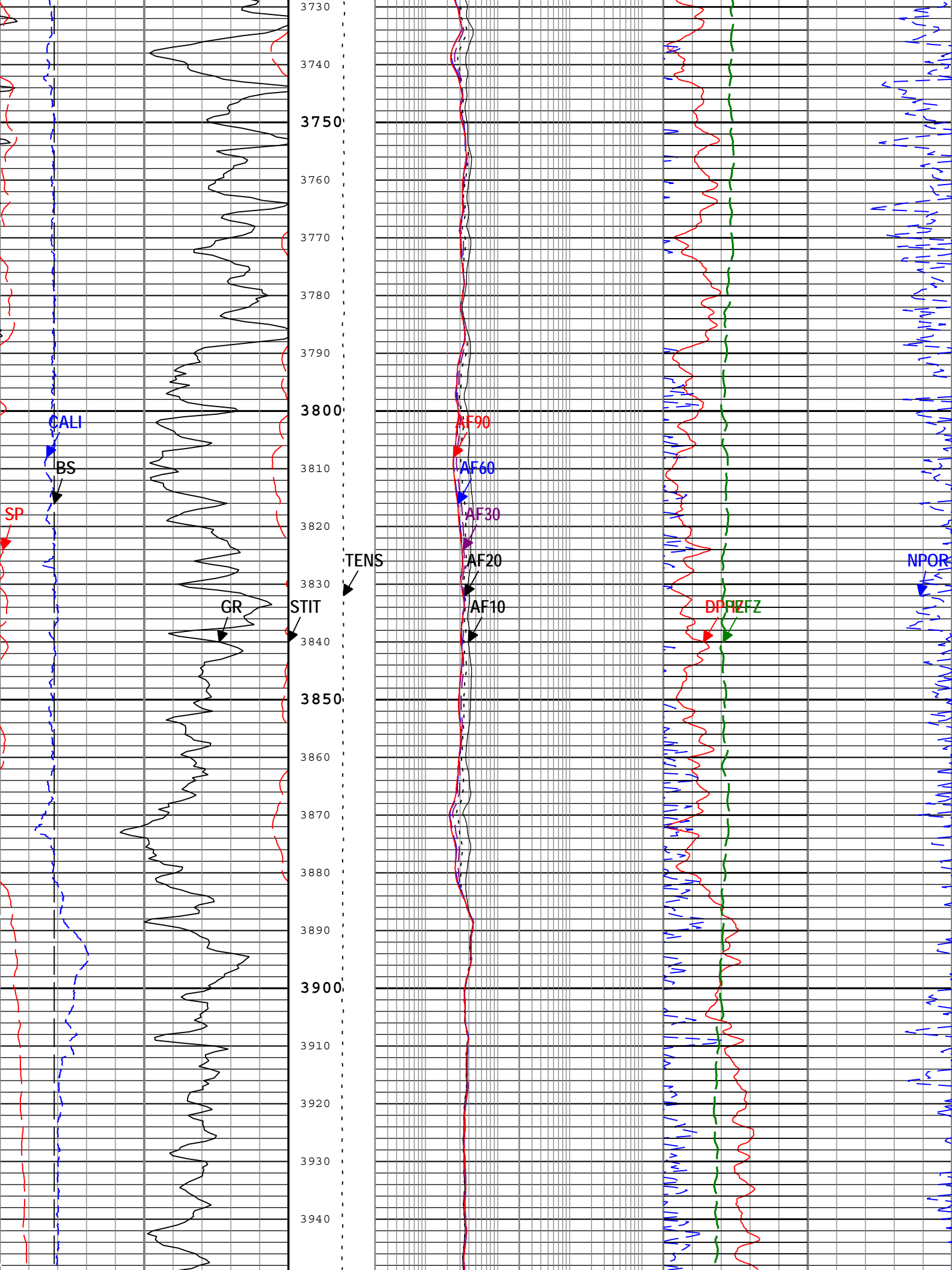


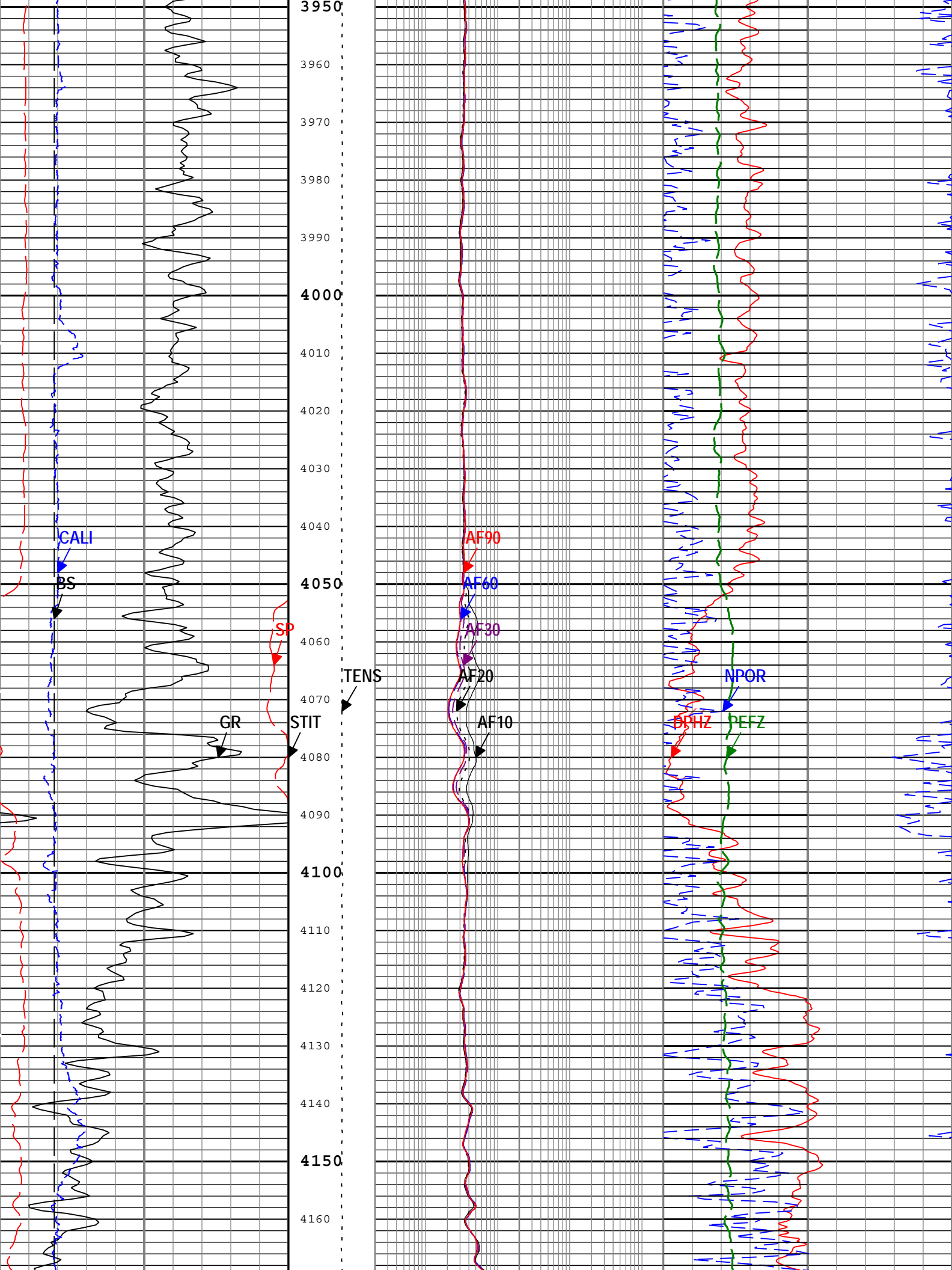


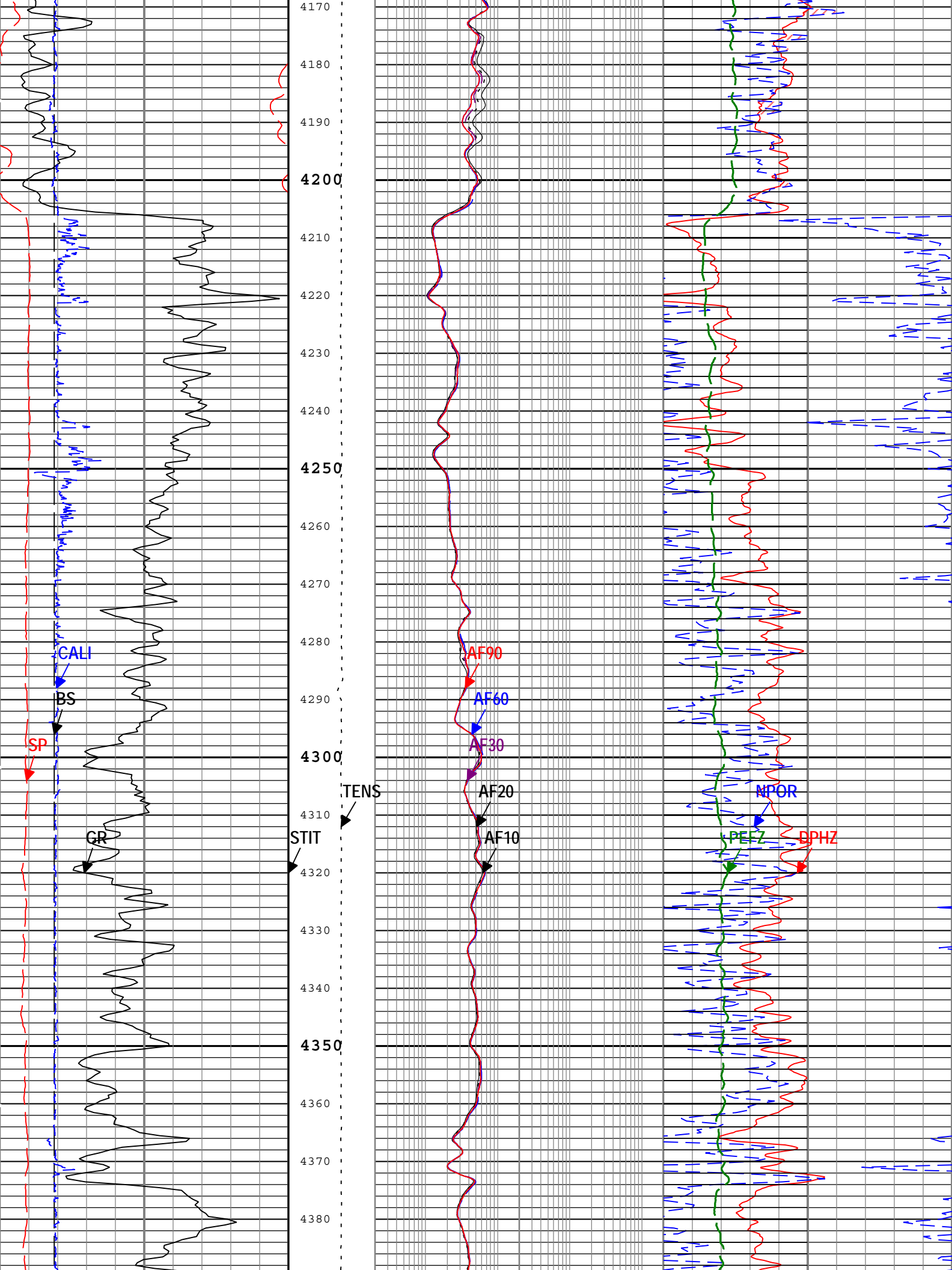


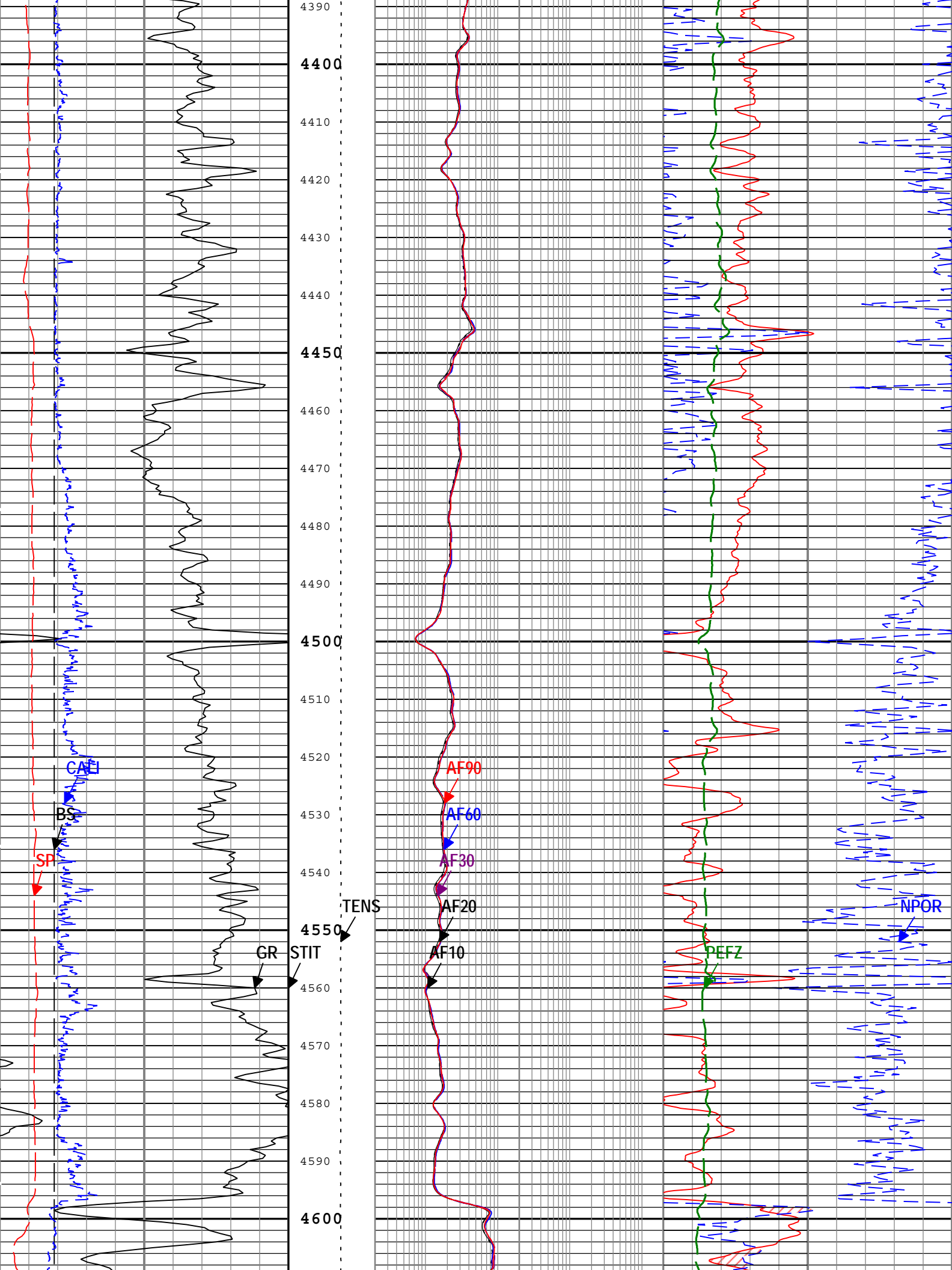


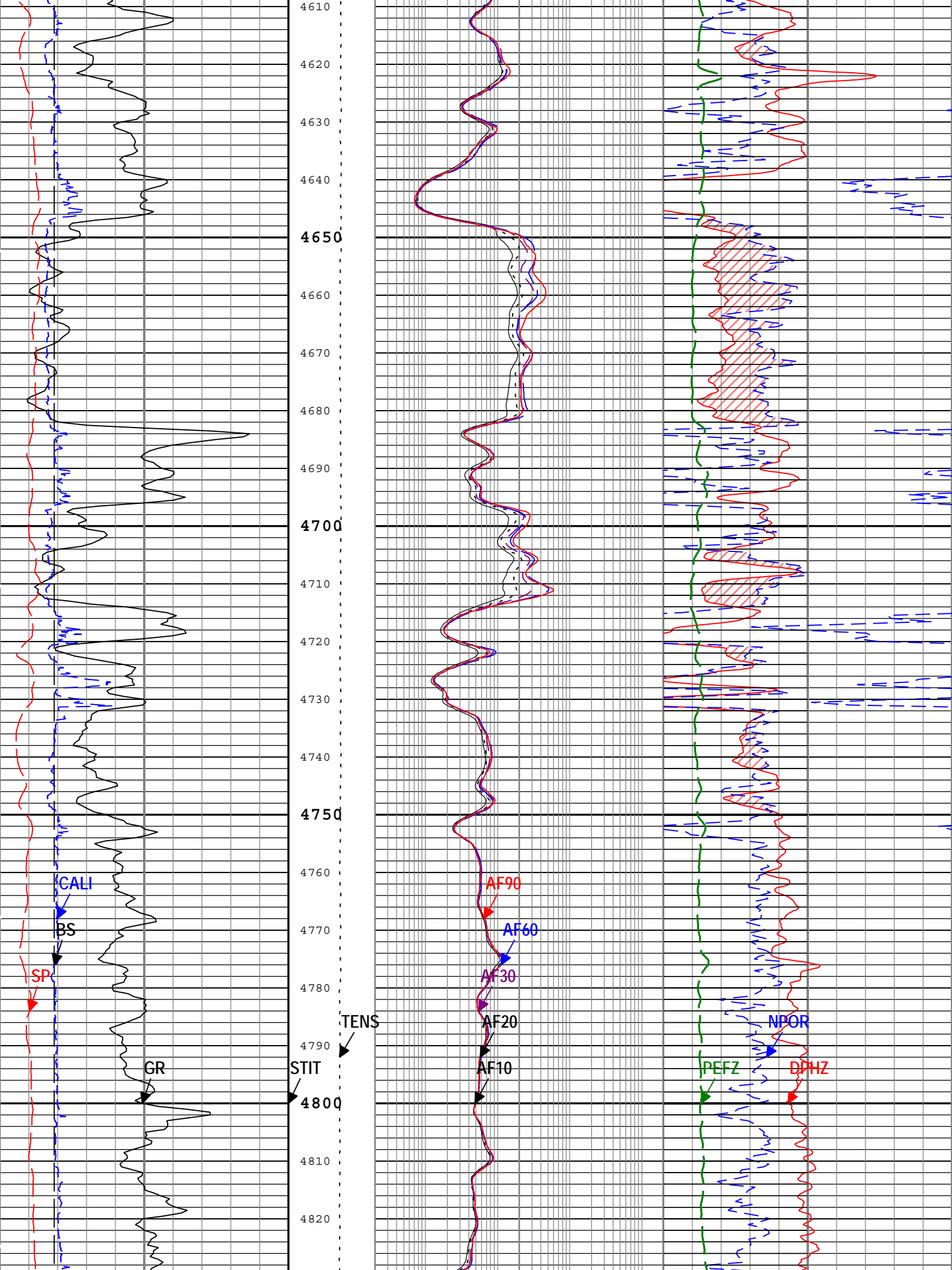


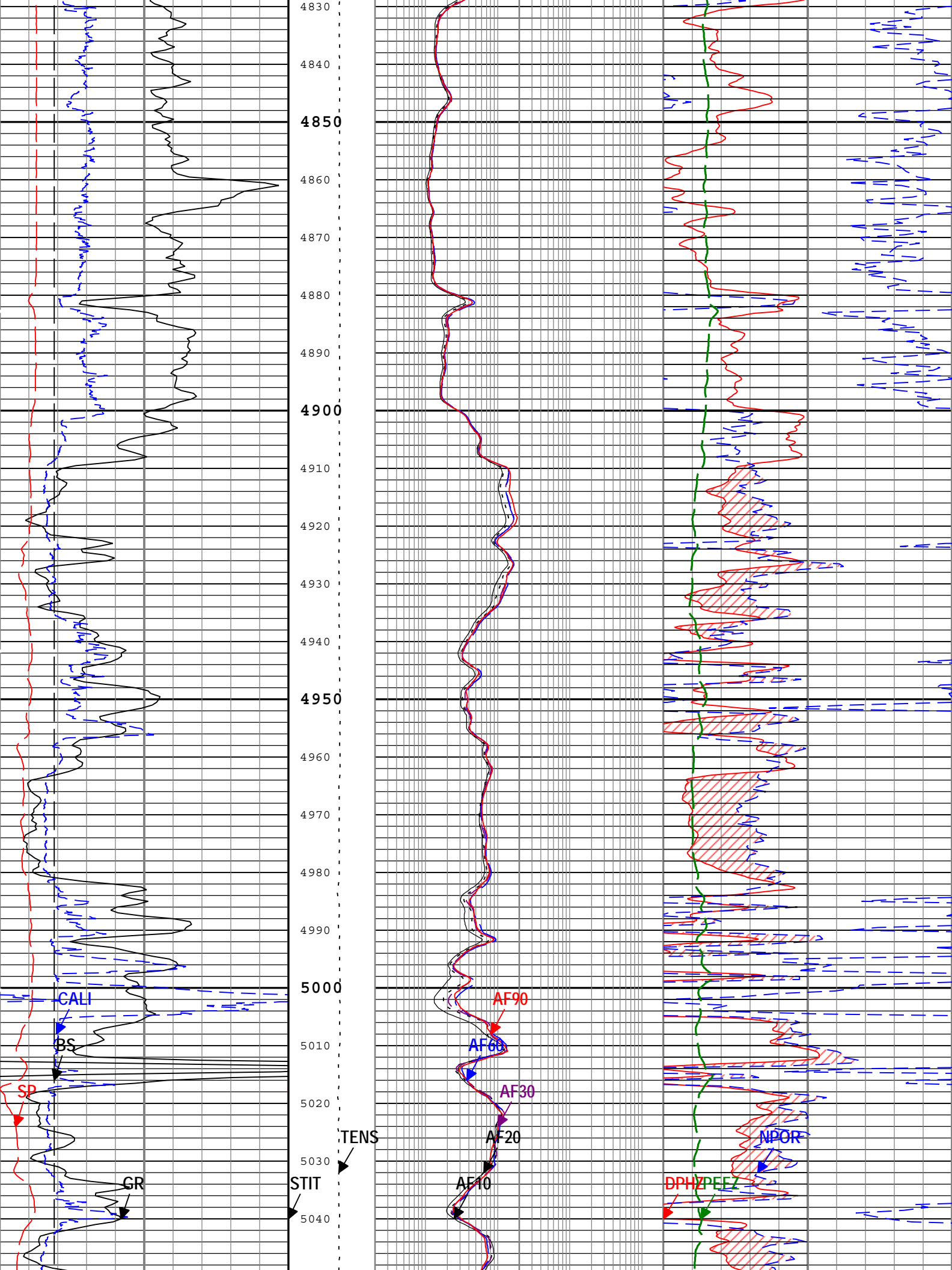


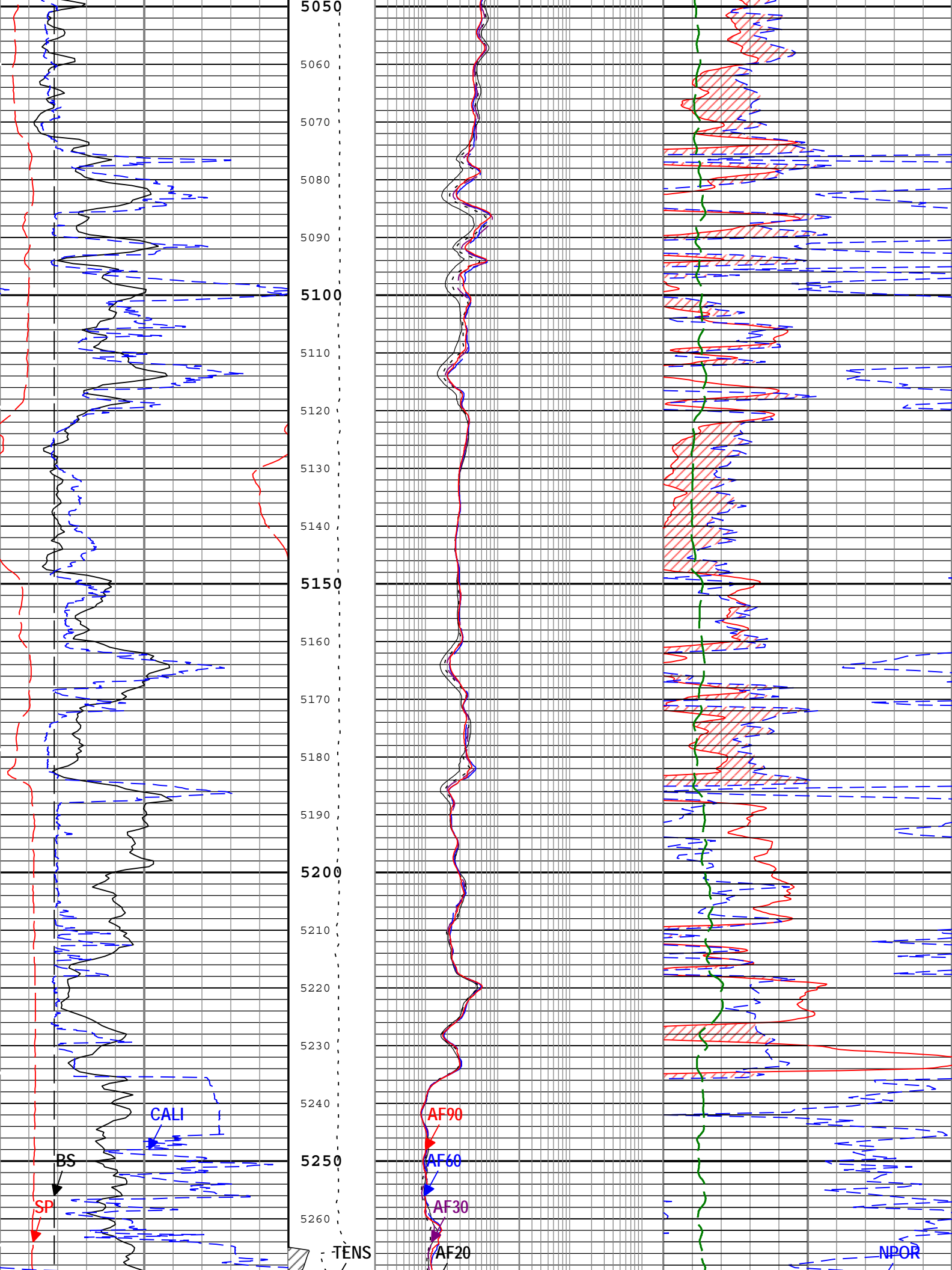


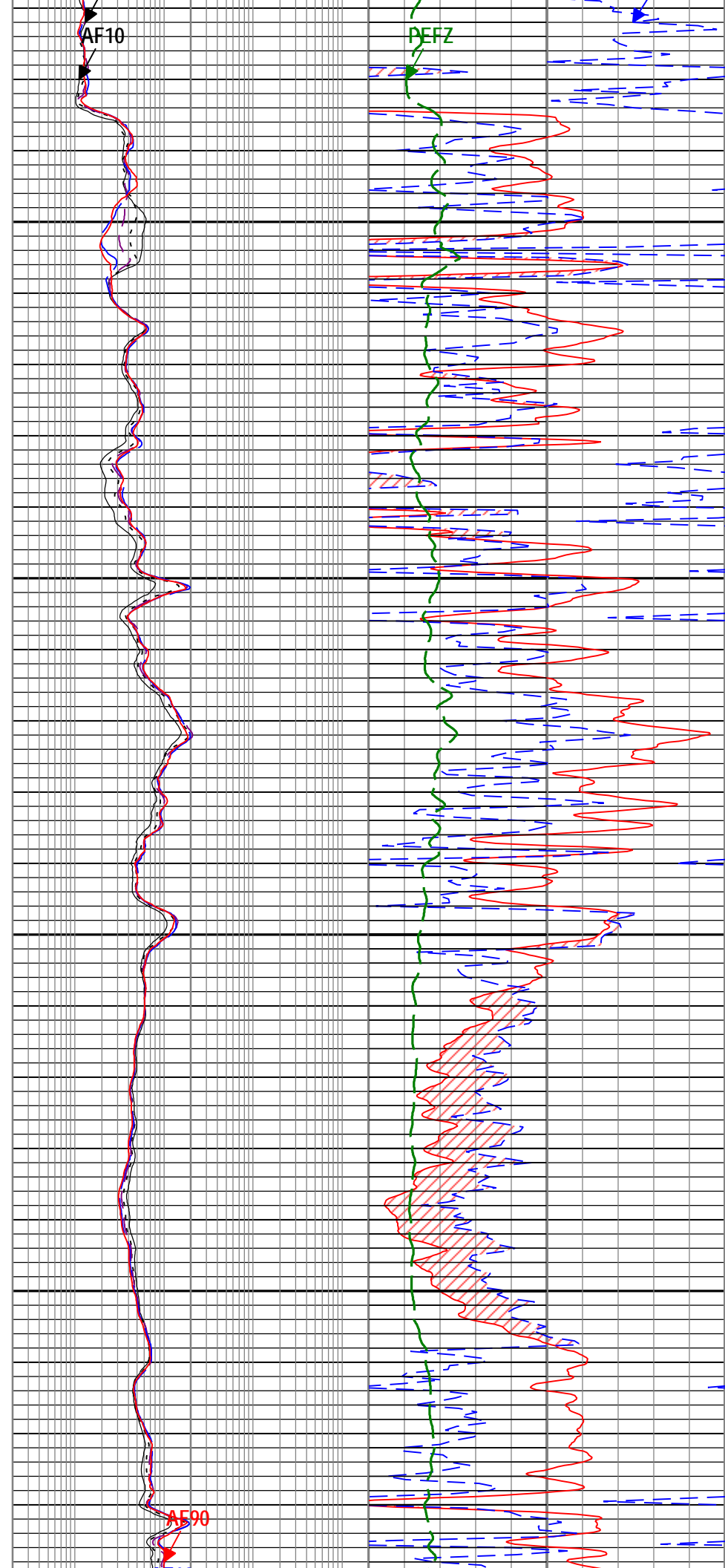
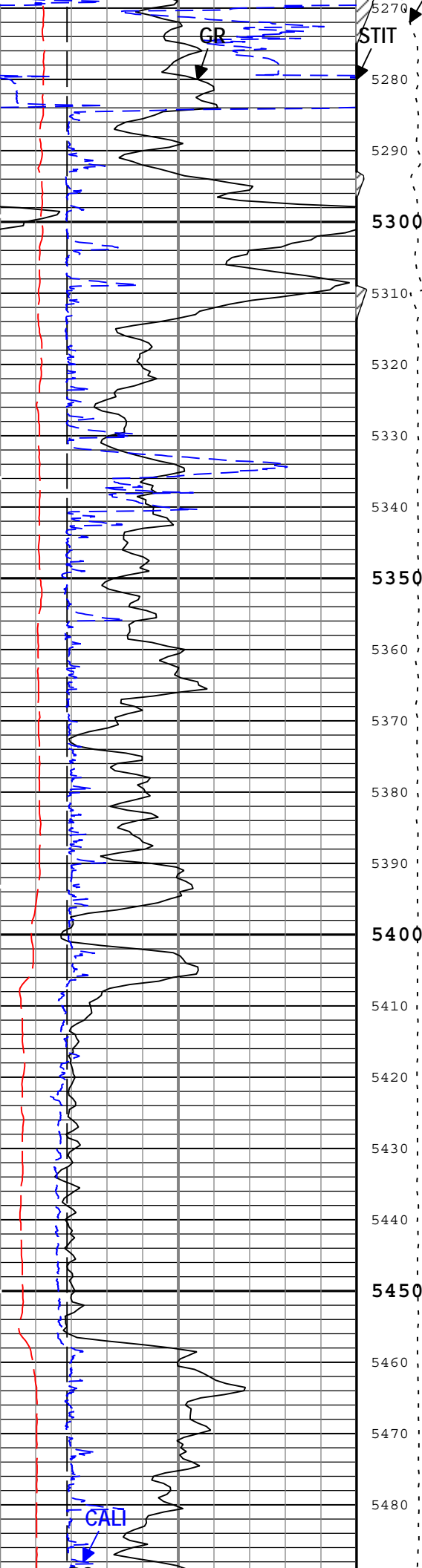


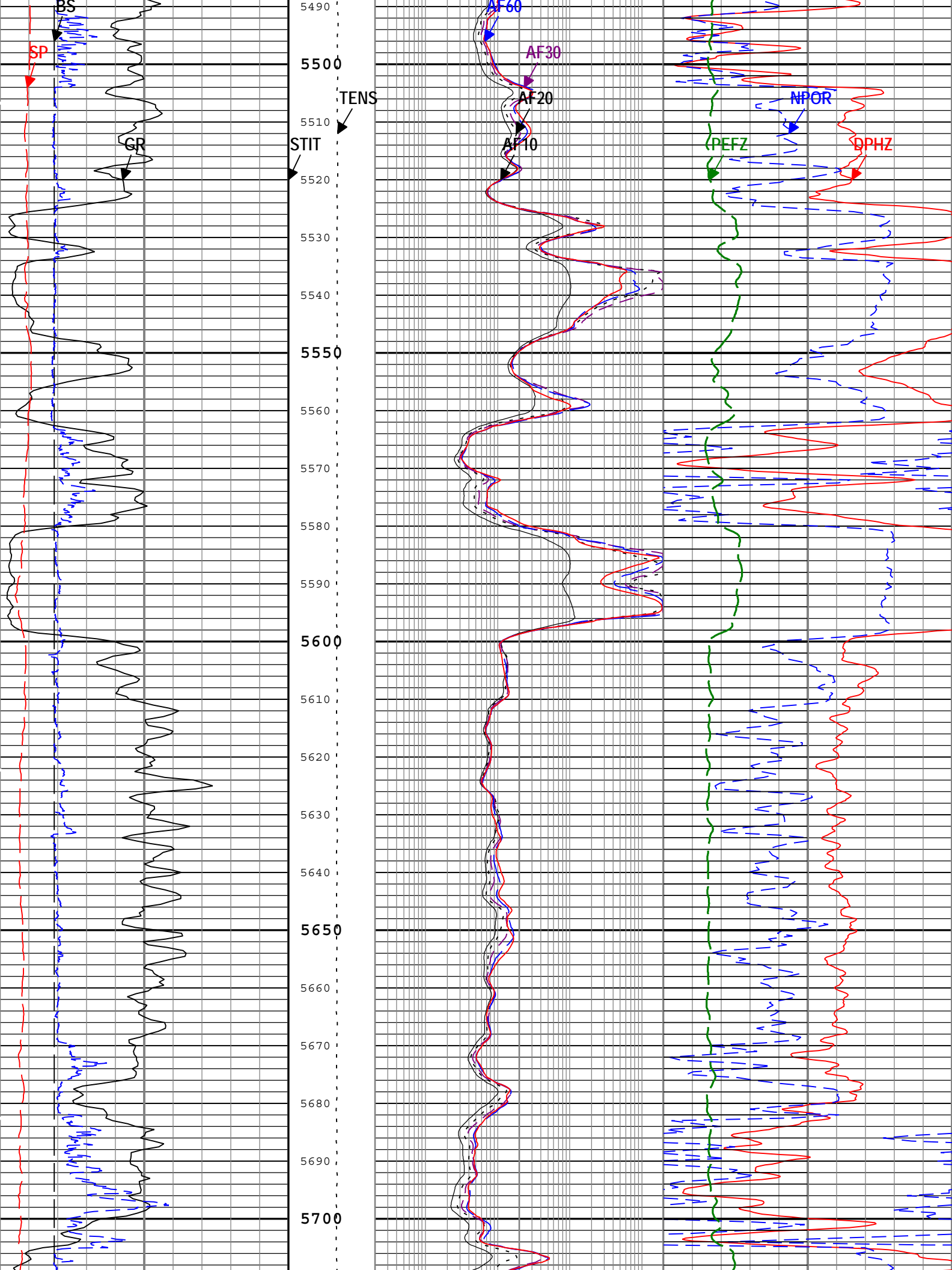


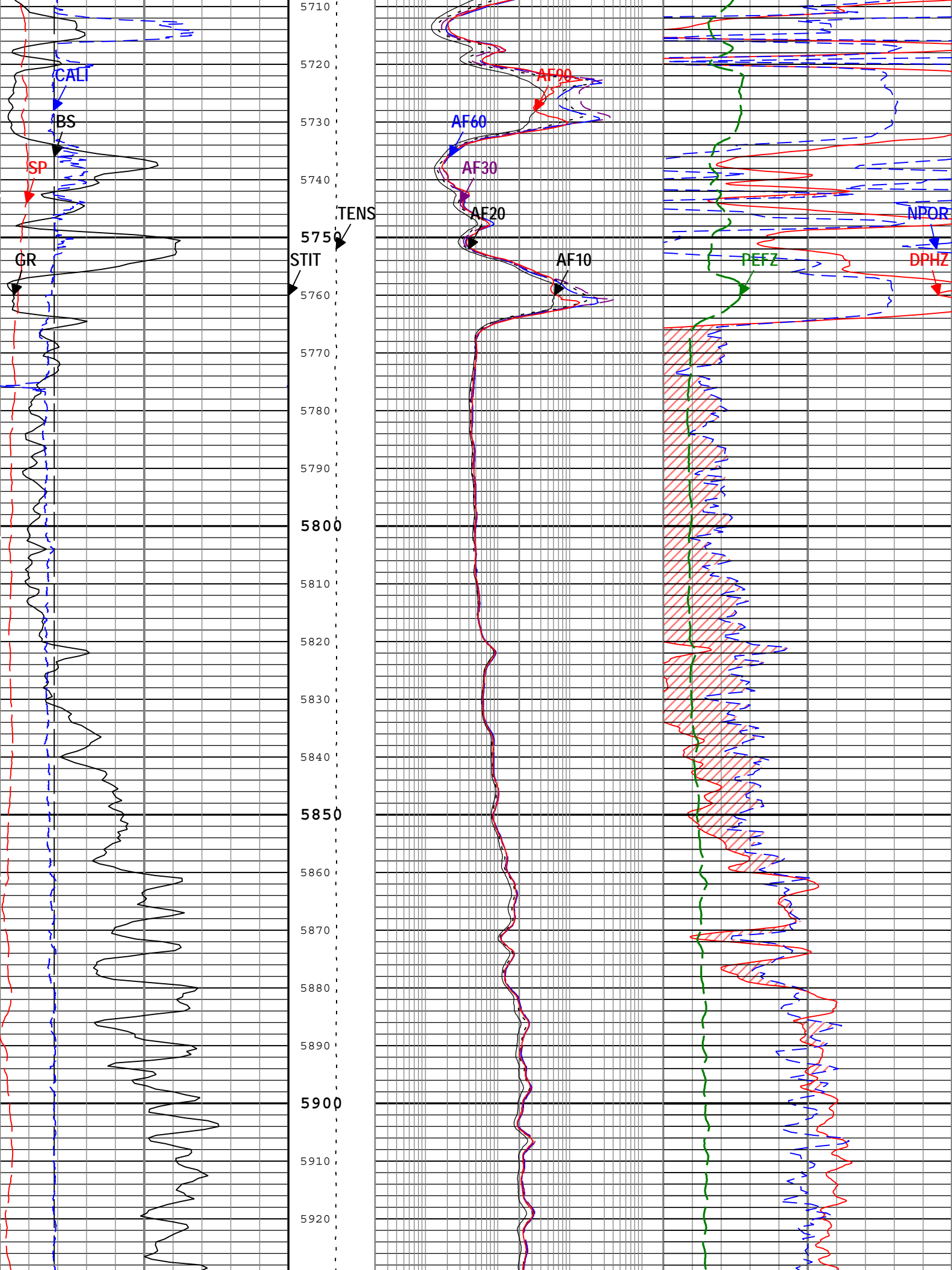


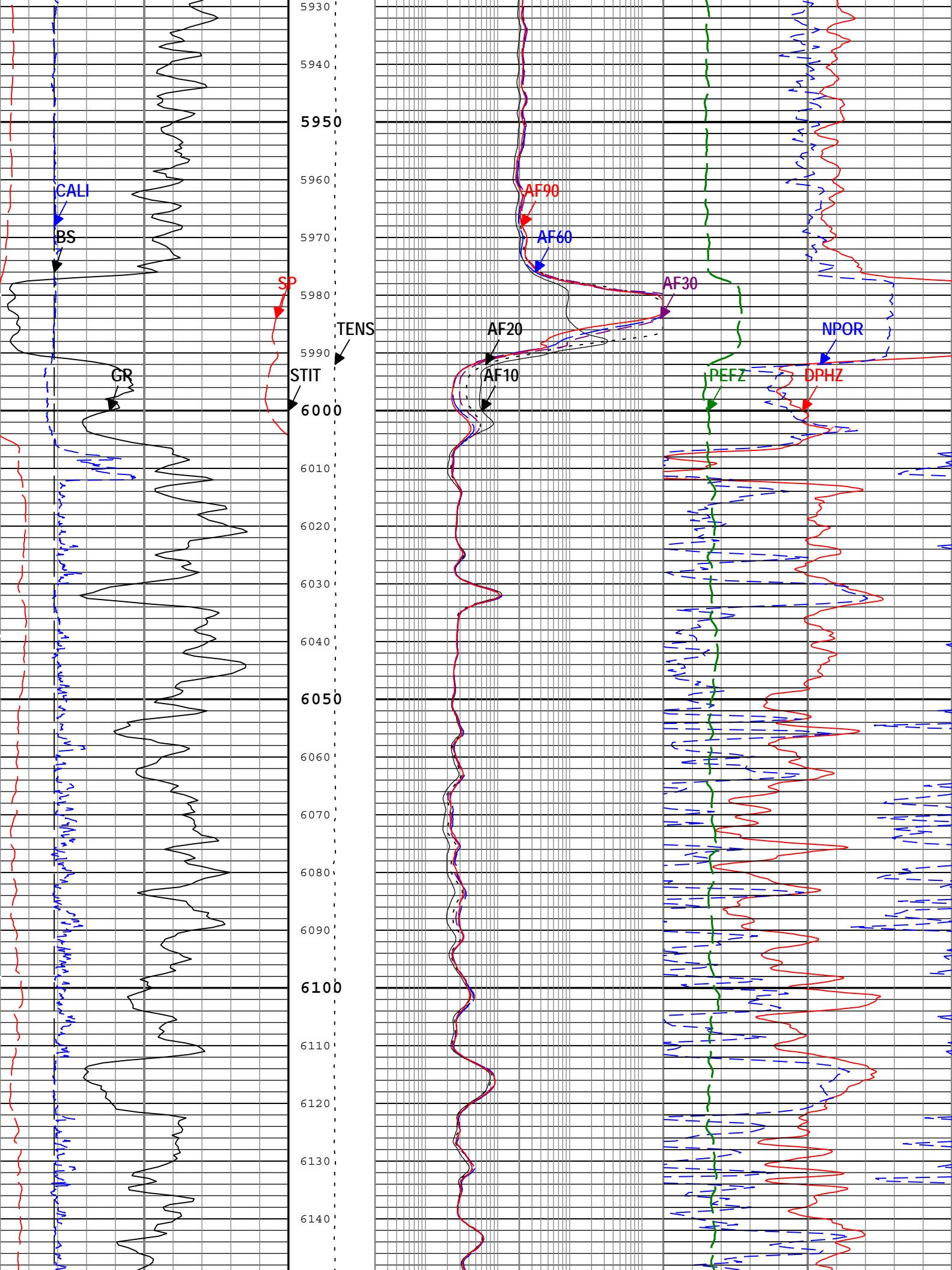


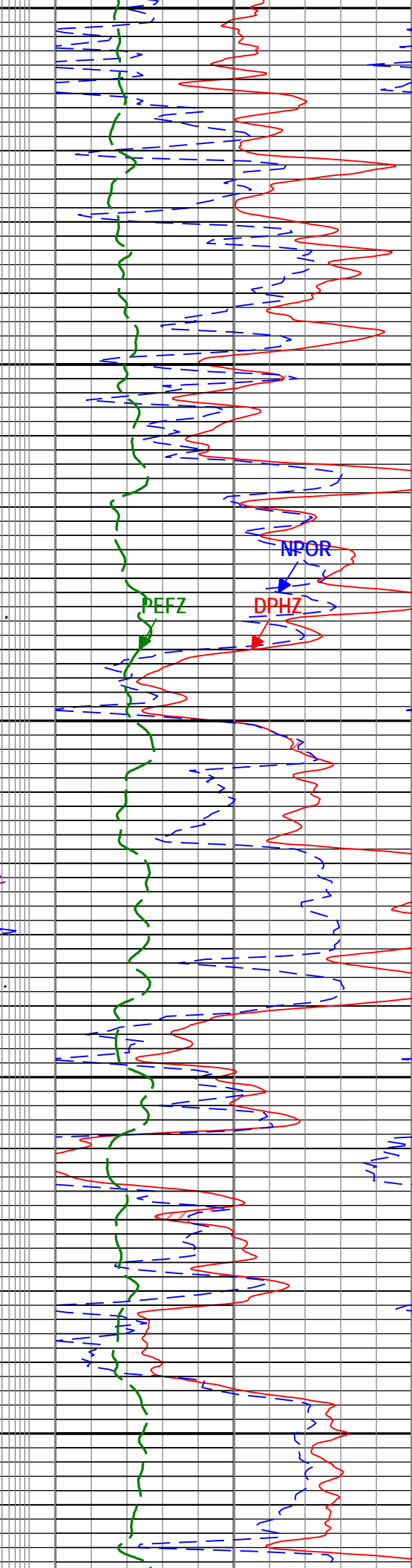
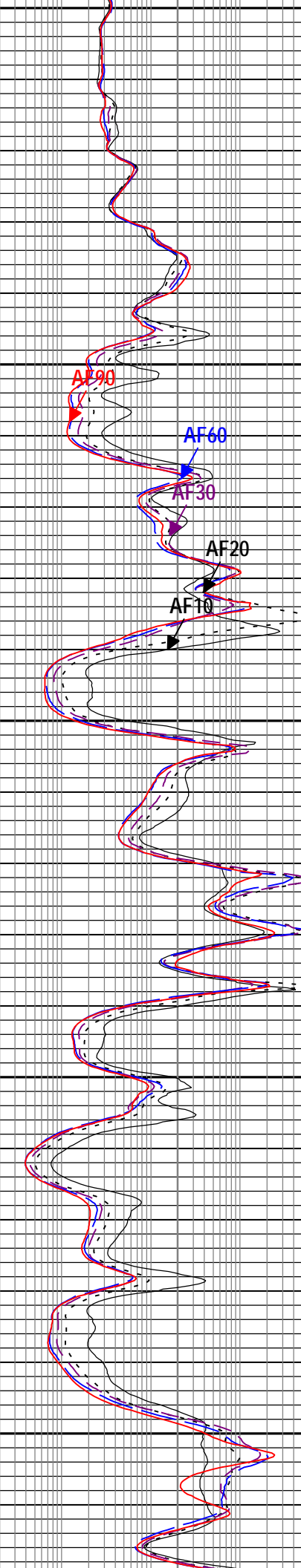
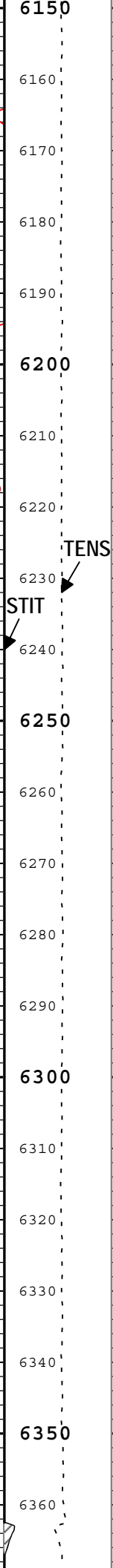
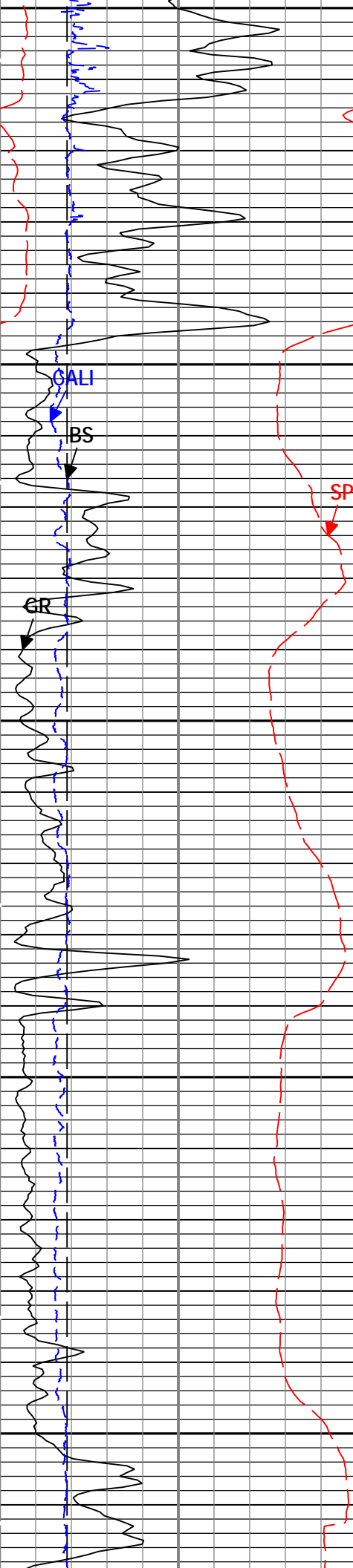


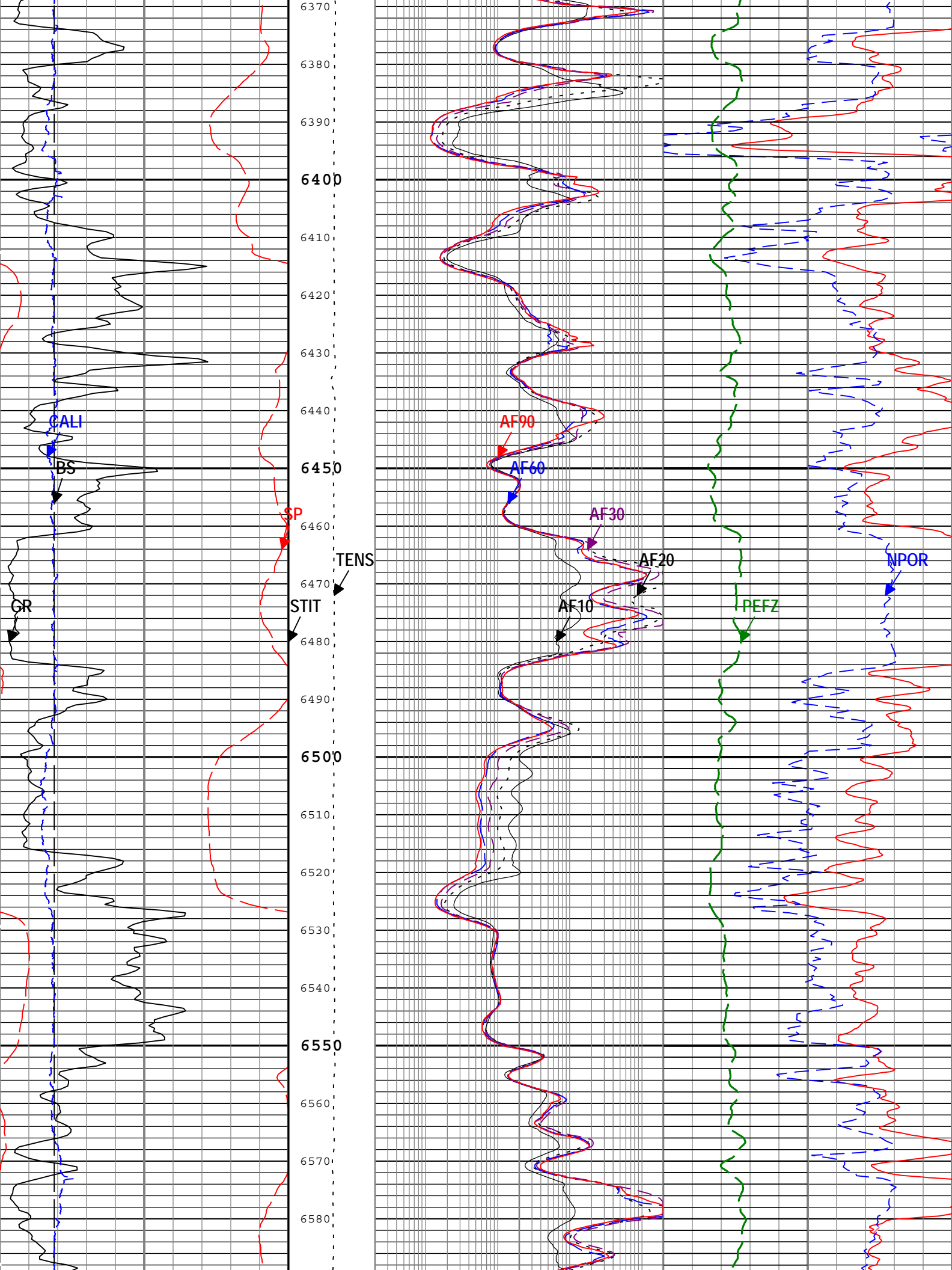


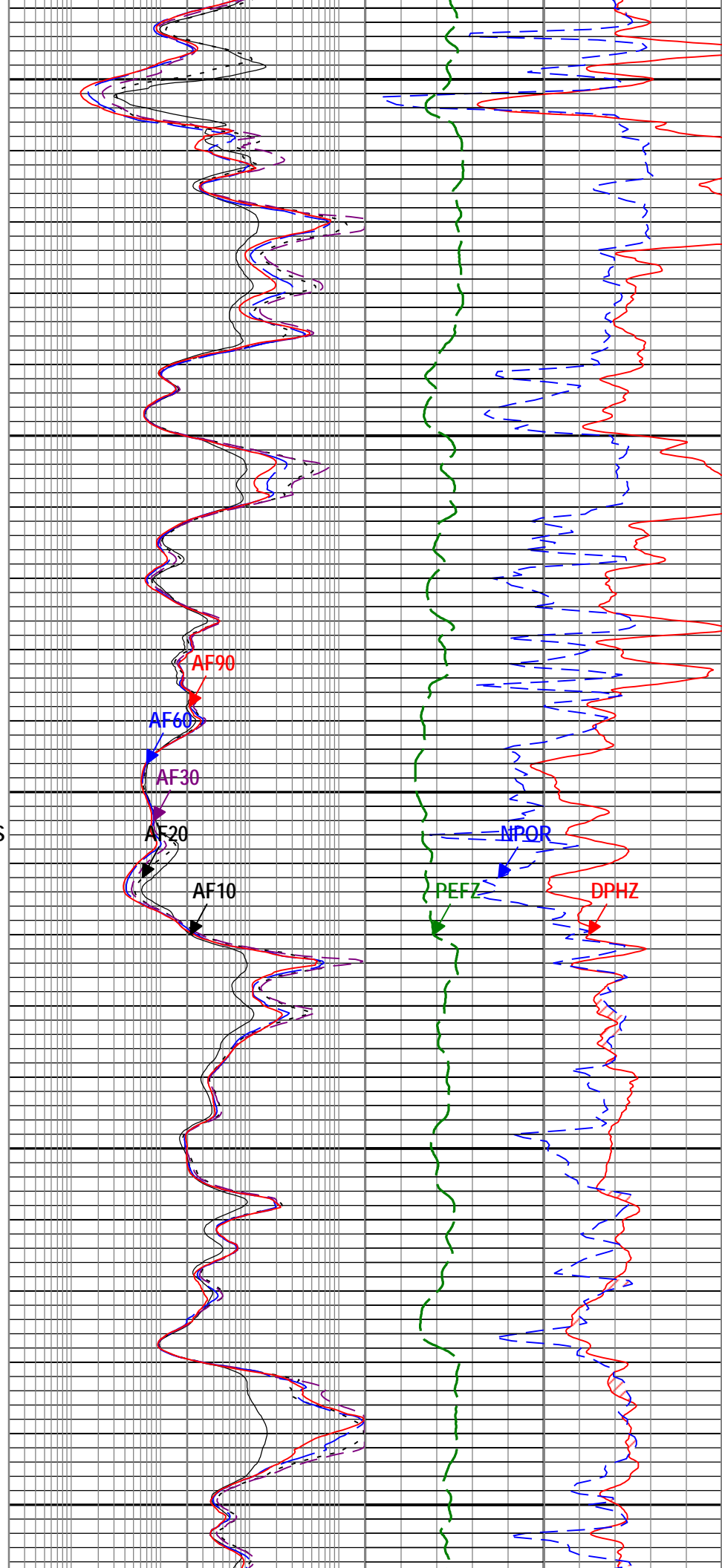
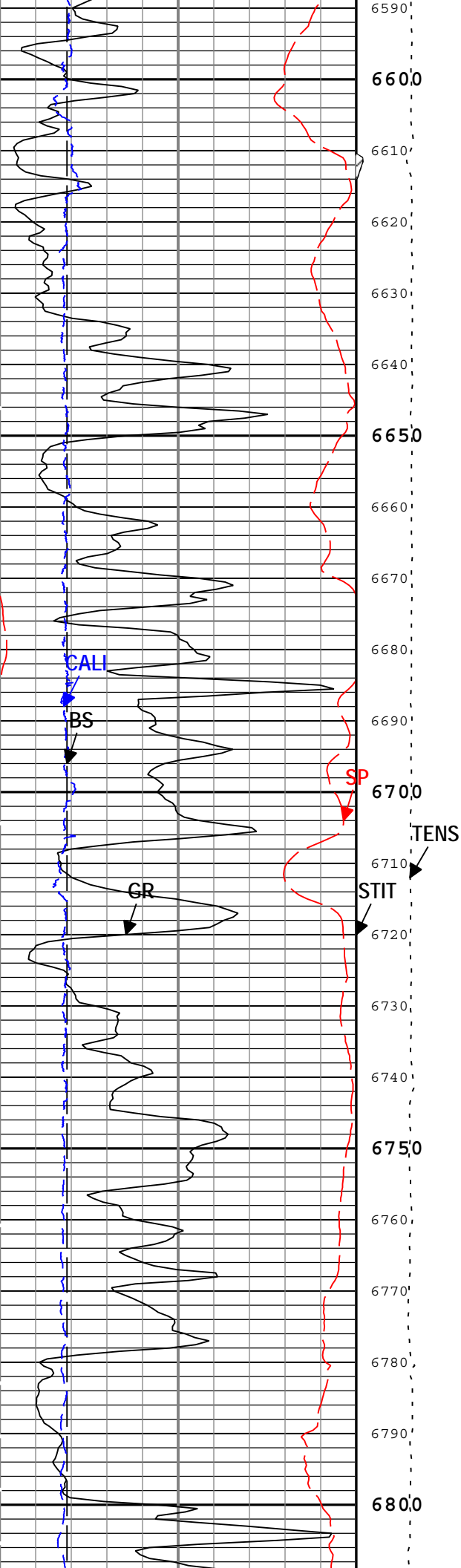


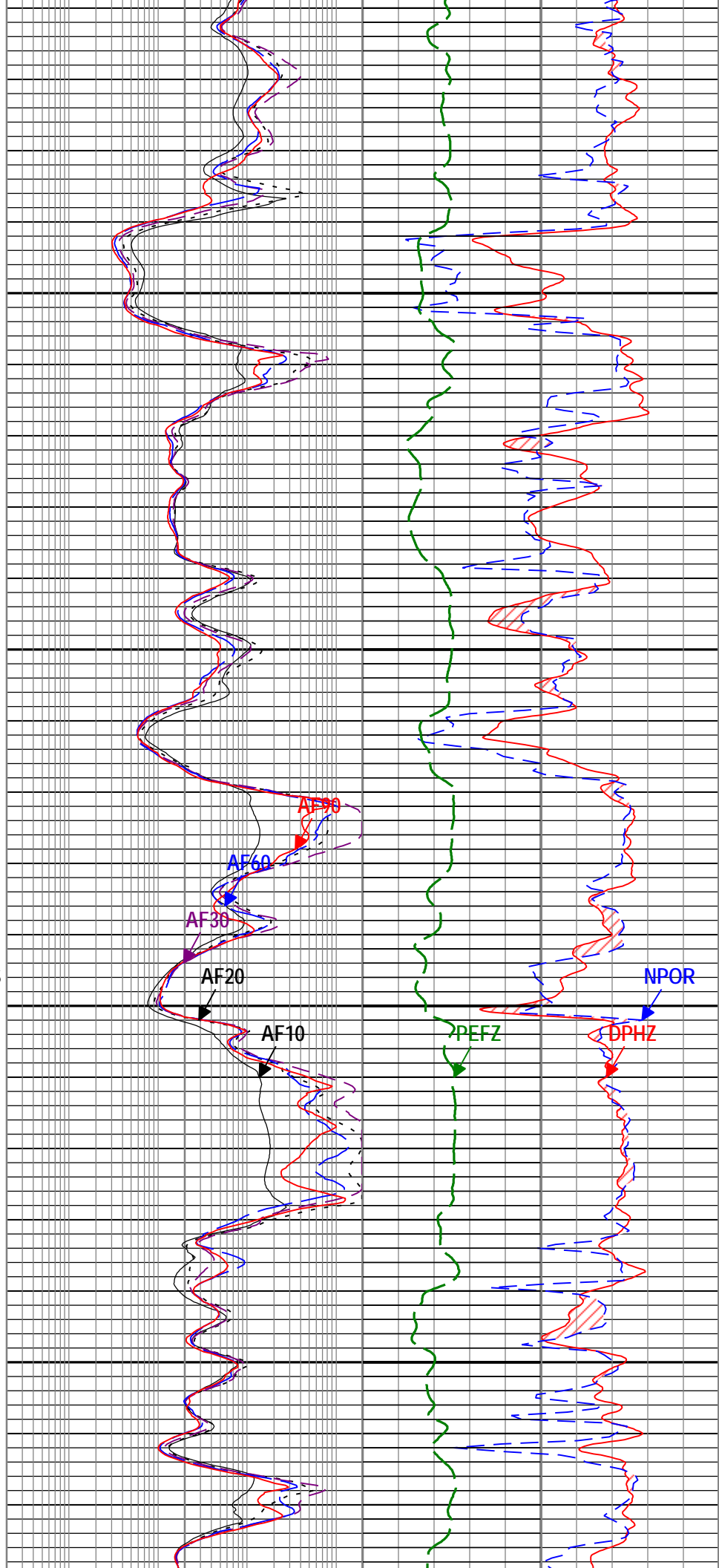
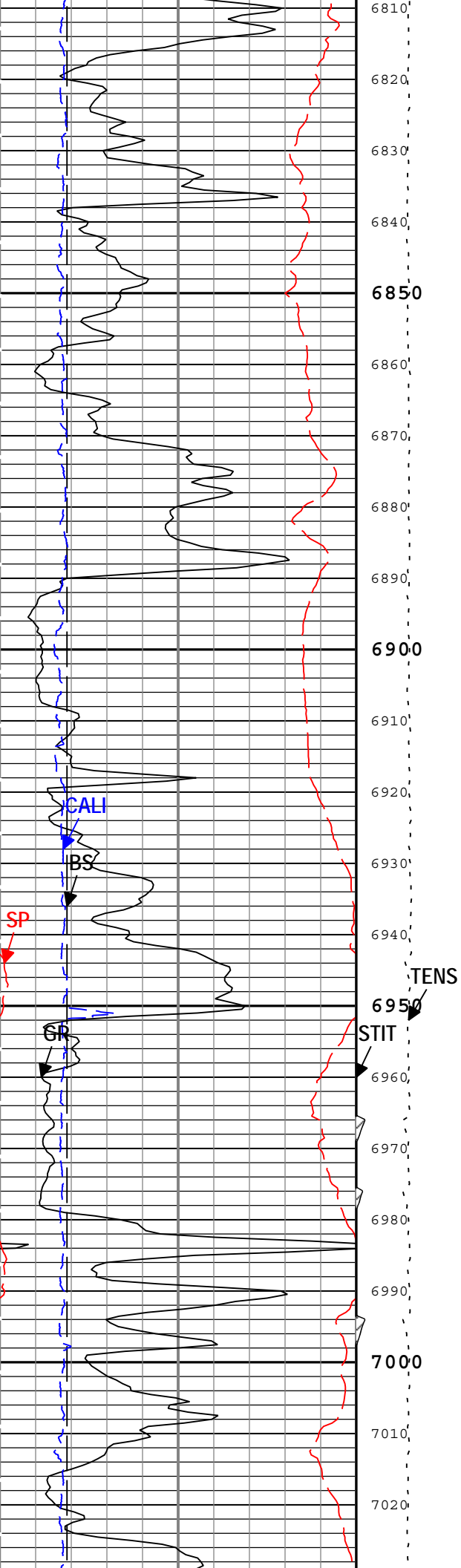


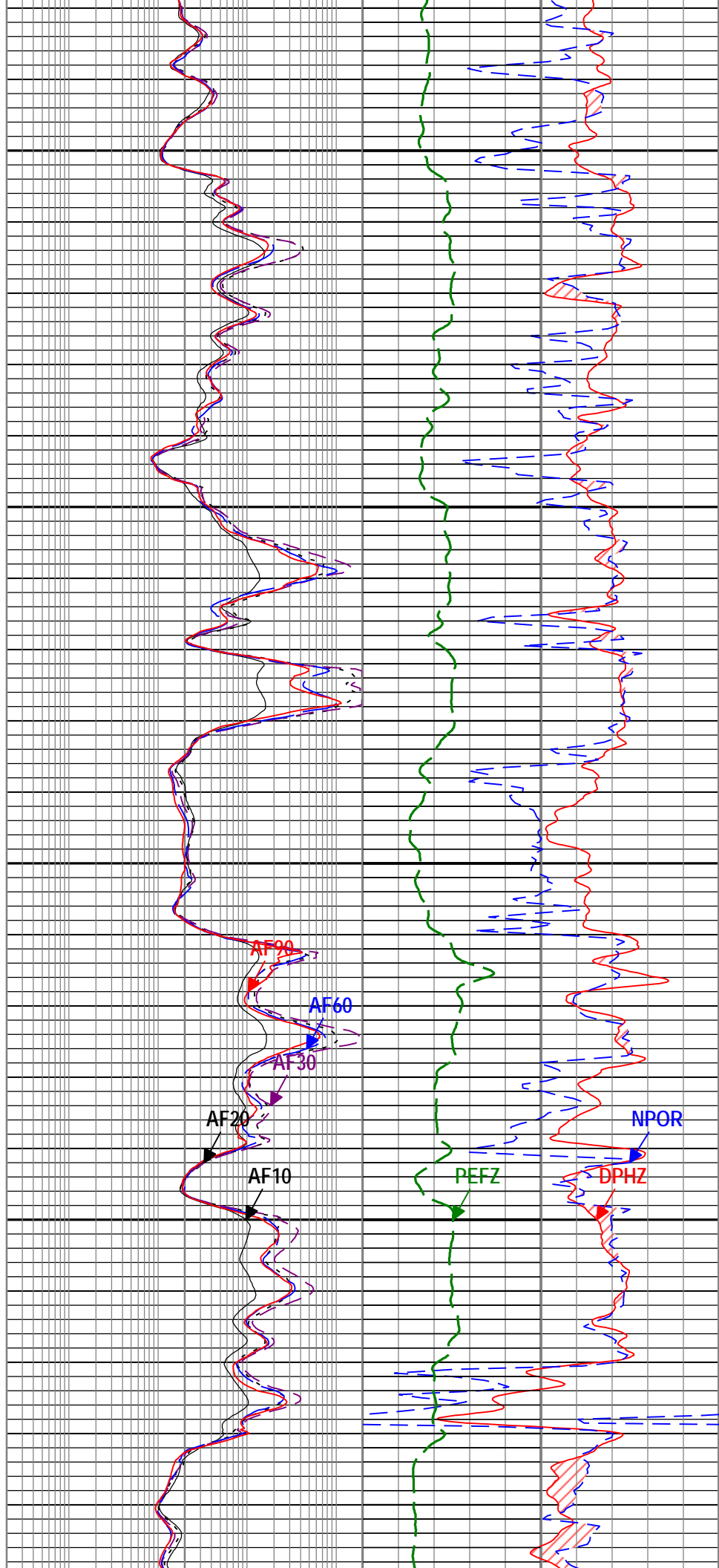
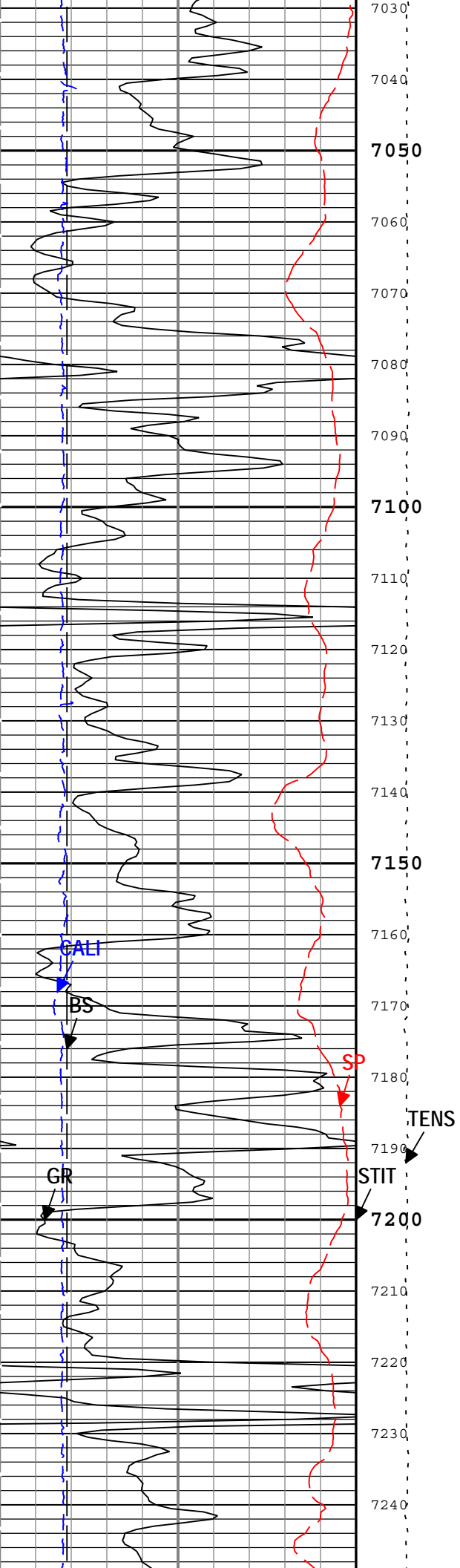


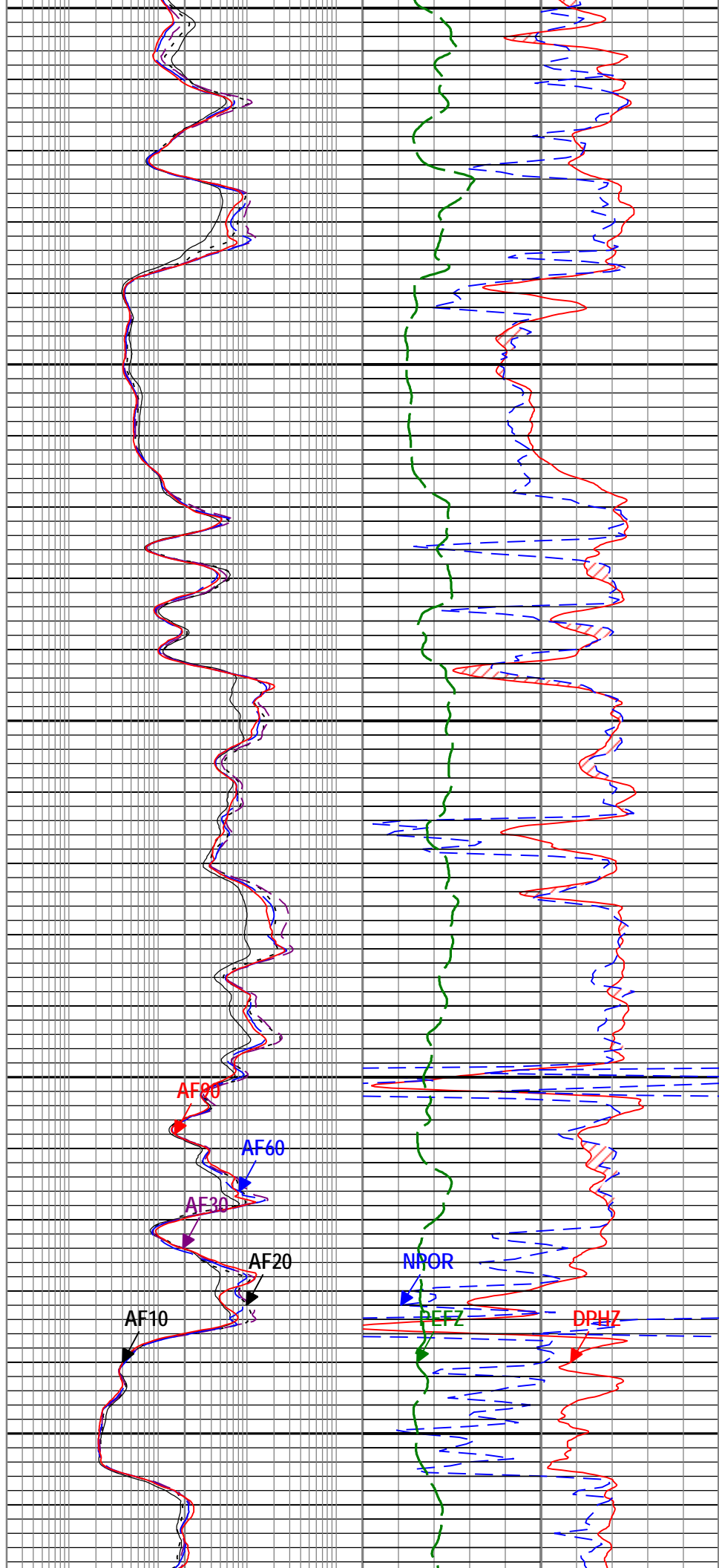
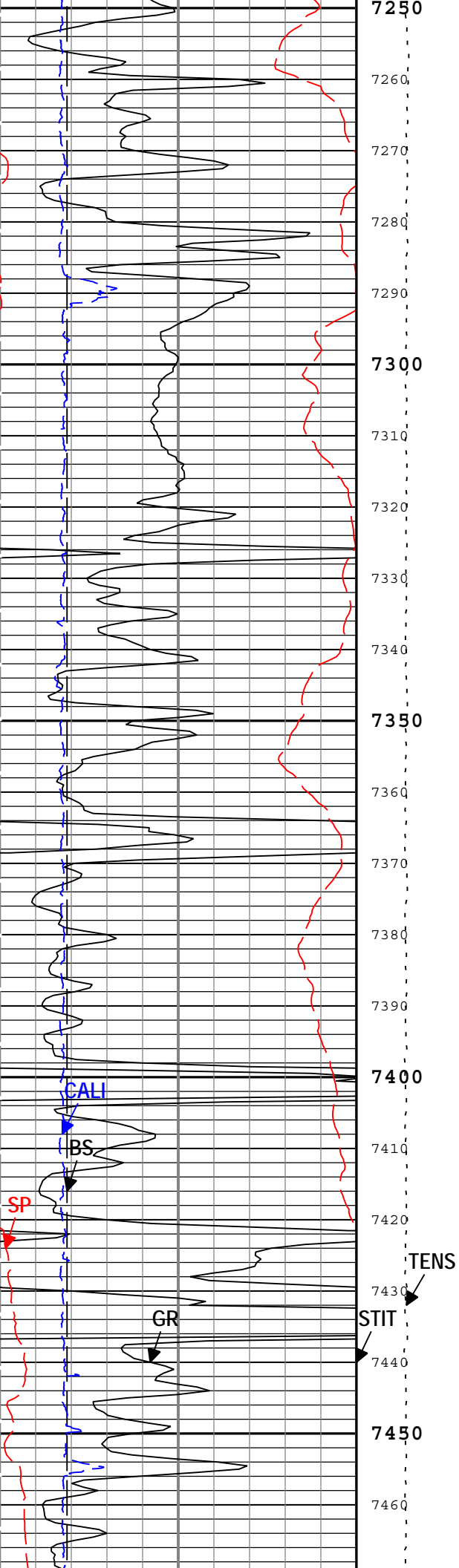


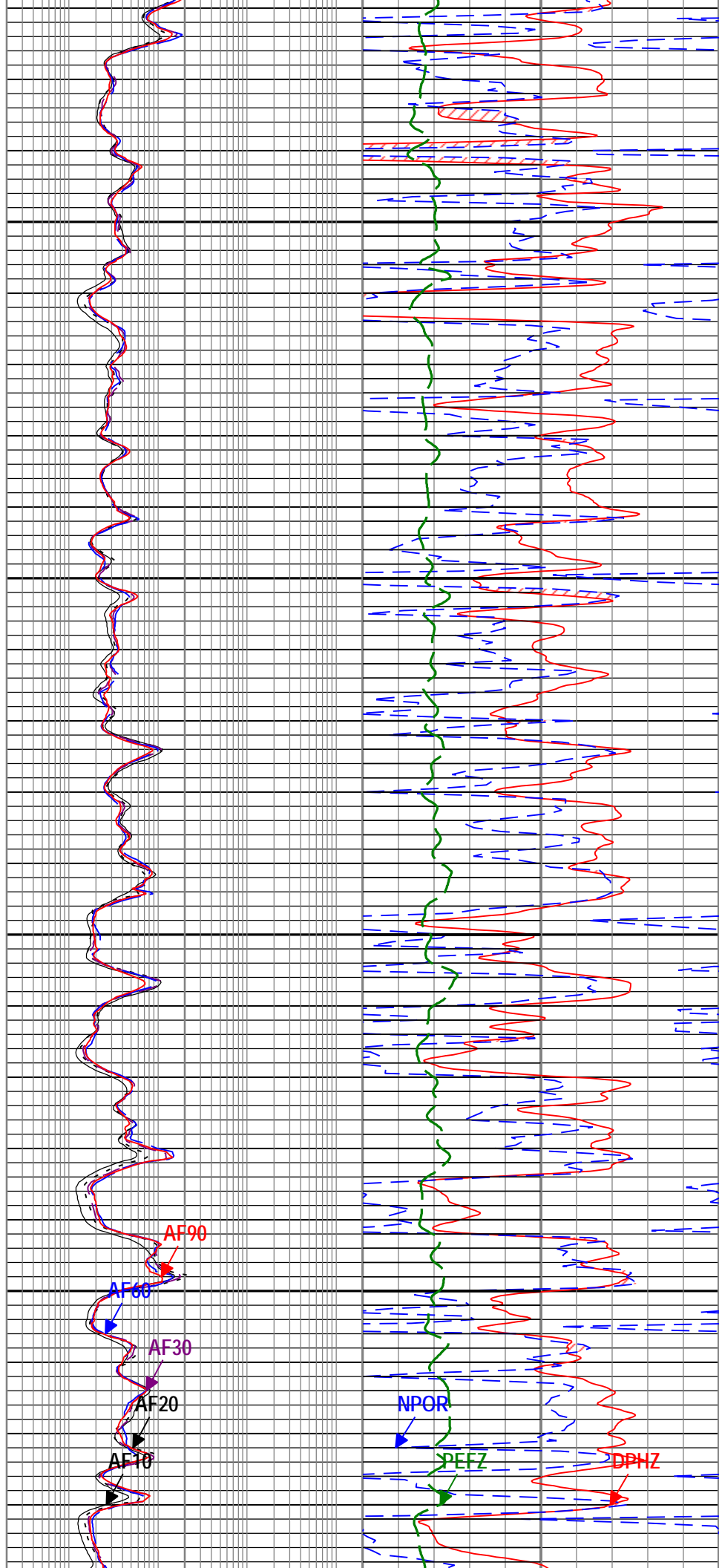
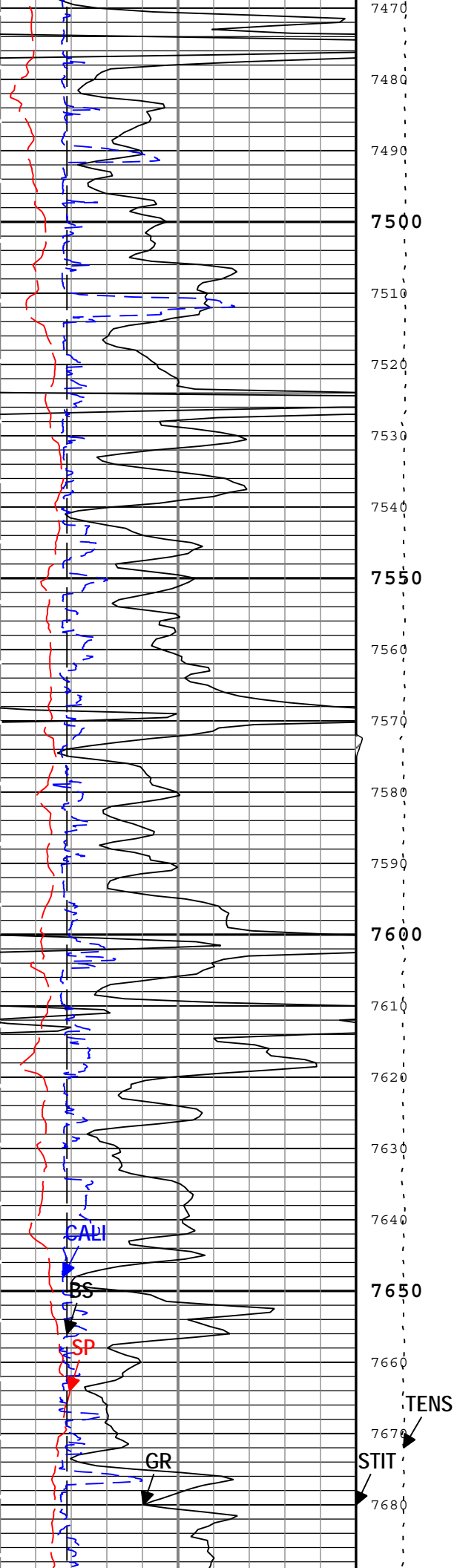


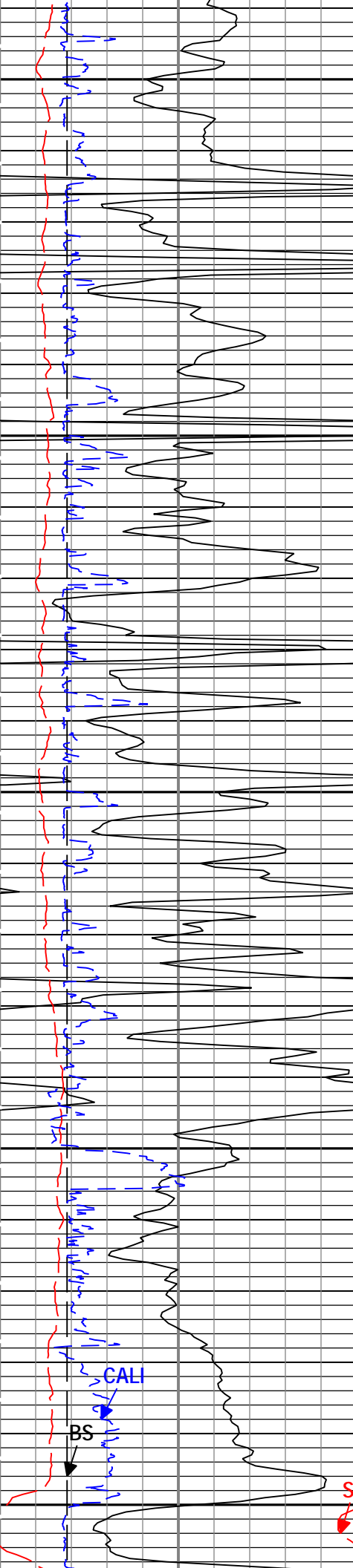




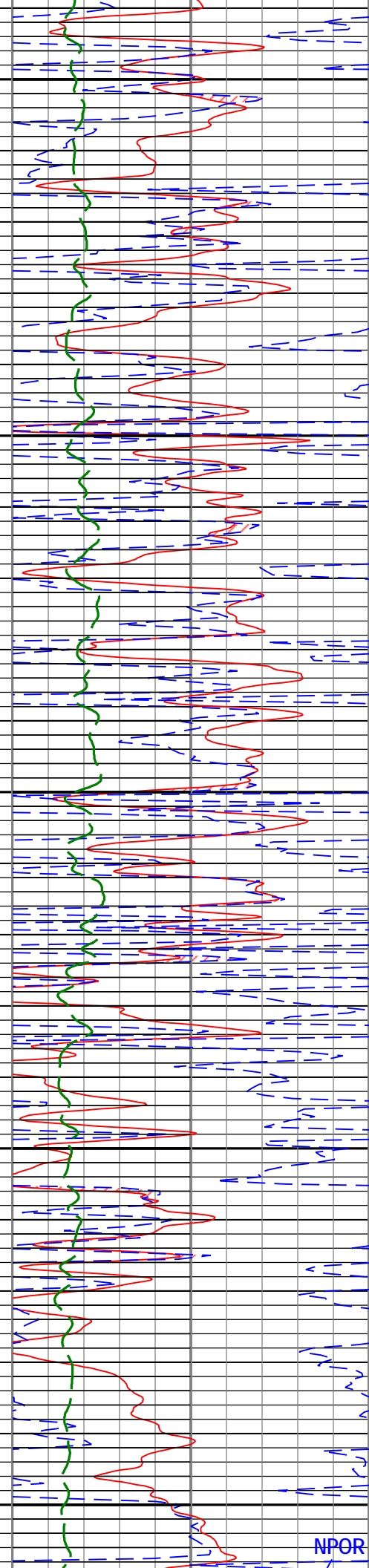
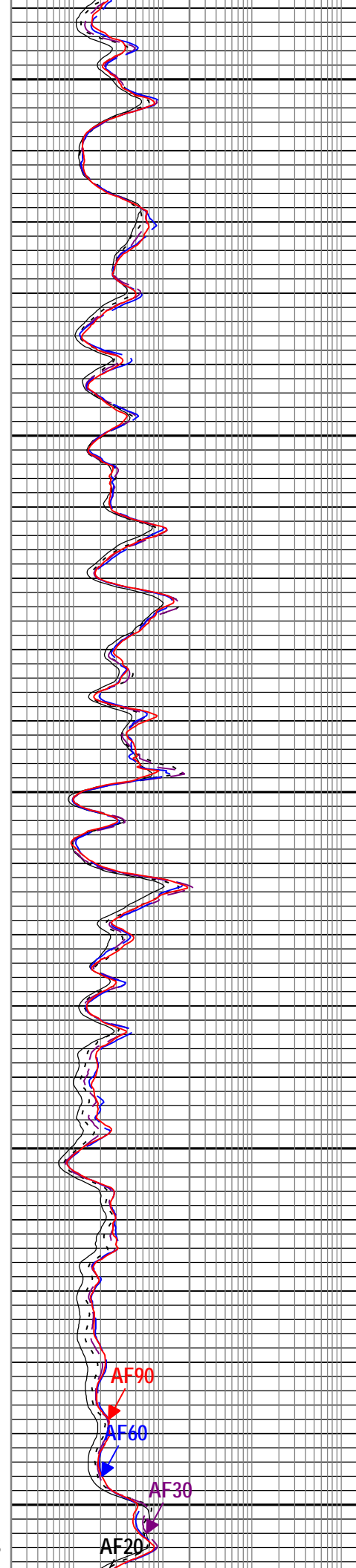


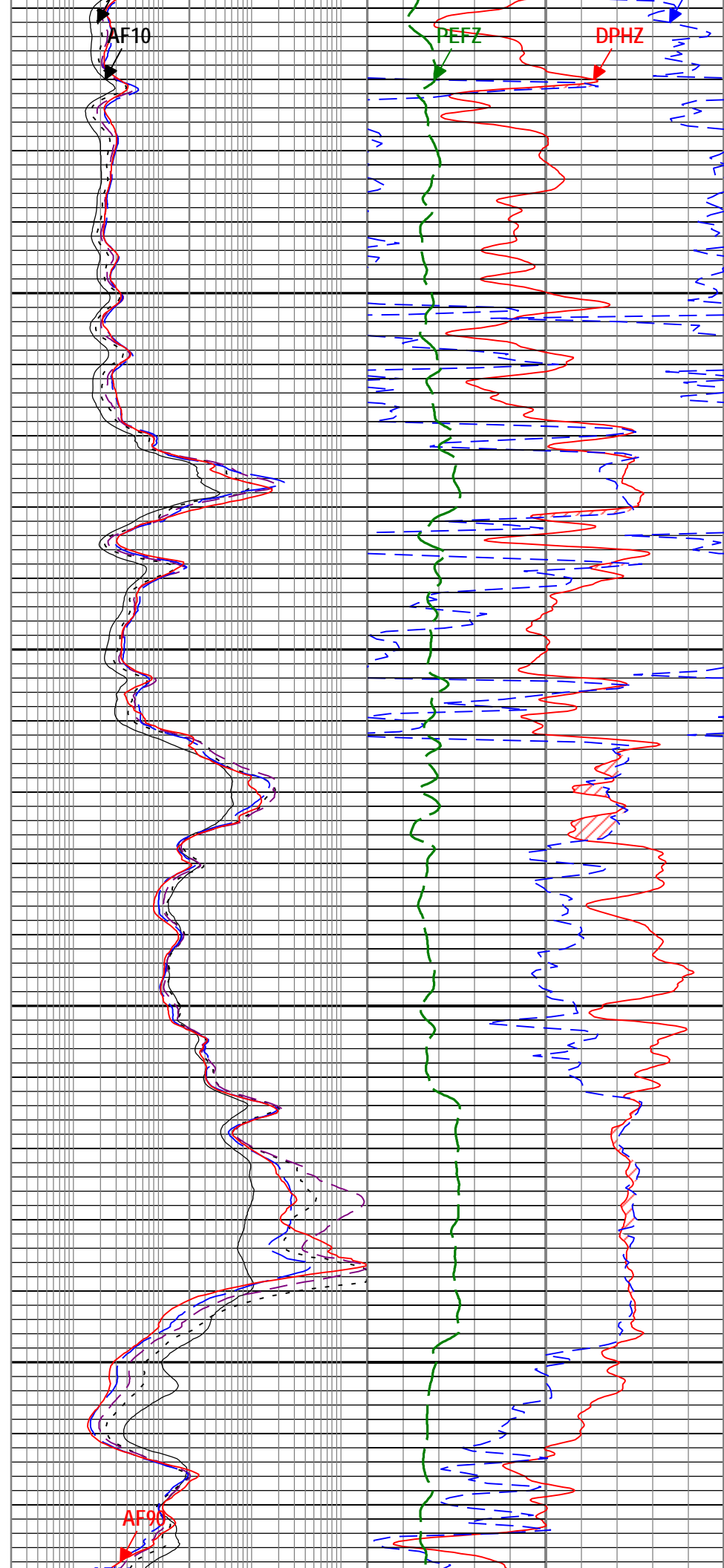
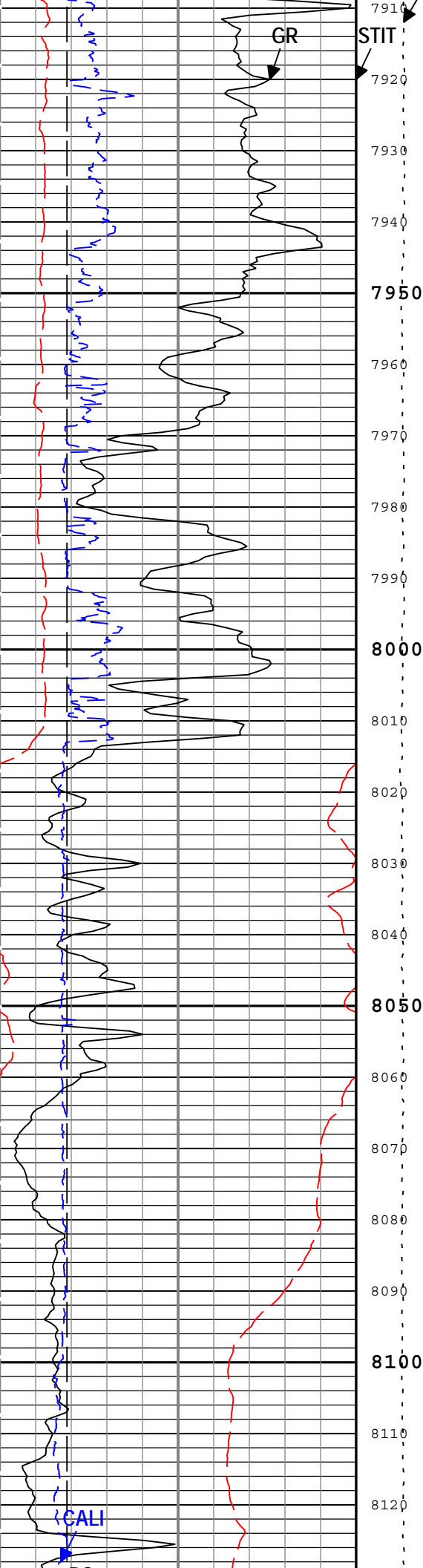


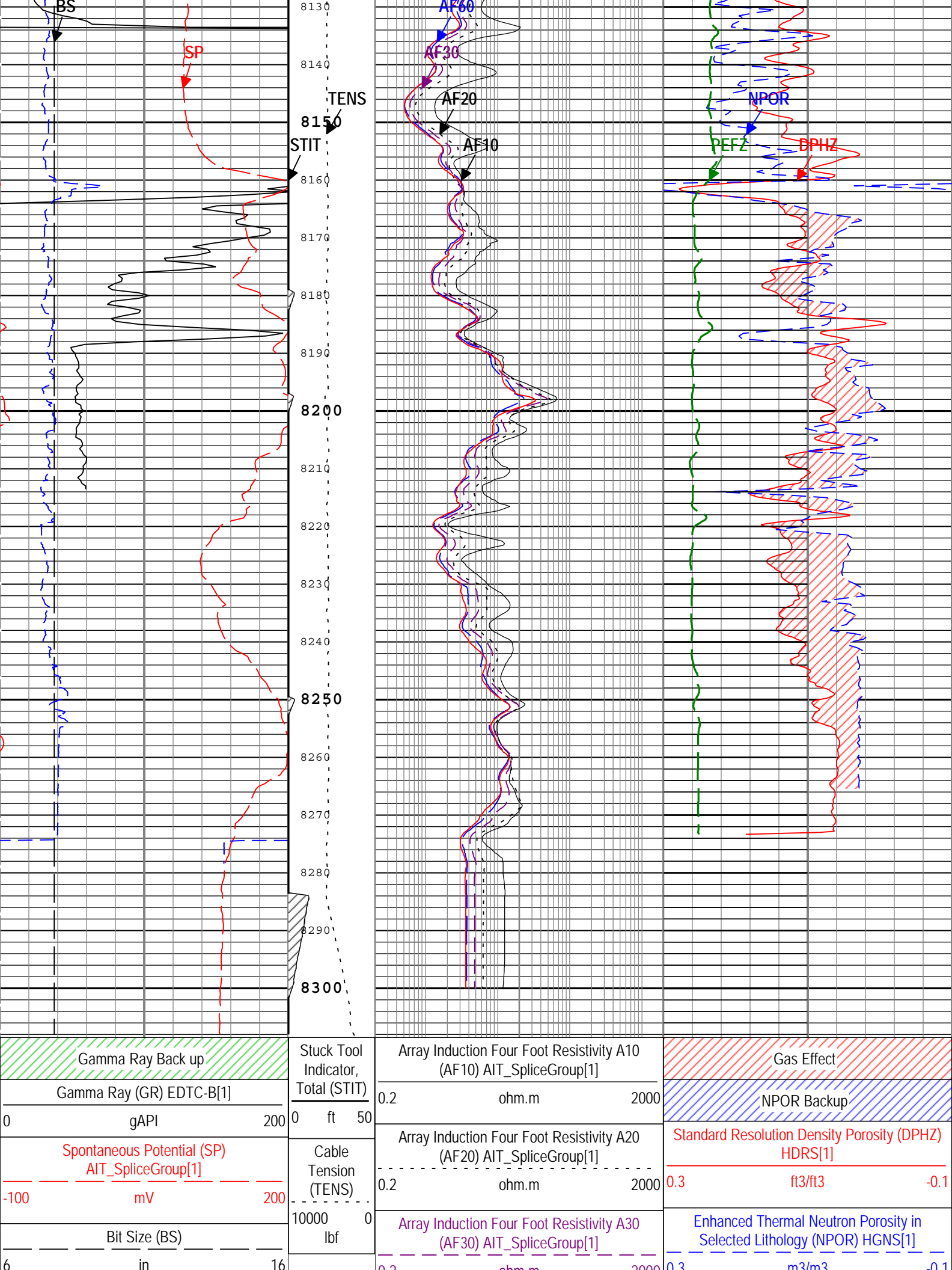




7690
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TENS







0.2	ohm.m	2000	0.2	ohm.m	2000
Caliper (CALI) HDRS[1]			Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS[1]		
6	in	16	0		10
Array Induction Four Foot Resistivity A60 (AF60) AIT_SpliceGroup[1]			Array Induction Four Foot Resistivity A90 (AF90) AIT_SpliceGroup[1]		
0.2	ohm.m	2000	0.2	ohm.m	2000

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo Linear) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 27-Oct-2014 15:20:31

Channel Processing Parameters

ONE_A: 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	
ASTA	Array Induction Tool Standoff	AIT-M	1.125	in
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	178	degF
BS	Bit Size	WLSESSION	7.875	in
BSAL	Borehole Salinity	Borehole	1400	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	-0.711	in
CBLO	Casing Bottom (Logger)	WLSESSION	368.75	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	WBM	
DHC	Density Hole Correction	HDRS-H	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-H	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	75	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.85	ohm.m
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft
TD	Total Measured Depth	Borehole	8283.5	ft

Tool Control Parameters

ONE_A: Parameters

Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BRD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolbit Maximum Logging Speed	WLSESSION	Toolbit	in/s

MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	ft/h
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ONE_ATime Zoned Parameters

Pass Log[3]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
MAX_LOG_SPEED	600	27-Oct-2014 07:30:38	27-Oct-2014 12:14:16	8308.34	1675.86

Pass Log[4]:Up

MAX_LOG_SPEED	0	27-Oct-2014 12:34:46	27-Oct-2014 13:03:19	1734.11	150.06
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All depth are at tool zero.

ONE_A

5" Repeat Analysis

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE_A	Log[2]:Up	Up	6721.12 ft	8303.93 ft	27-Oct-2014 5:33:04 AM	27-Oct-2014 6:03:13 AM	ON	11.67 ft	No
ONE_A	Log[3]:Up	Up	1675.86 ft	8308.34 ft	27-Oct-2014 7:30:18 AM	27-Oct-2014 12:14:16 PM	ON	17.25 ft	No

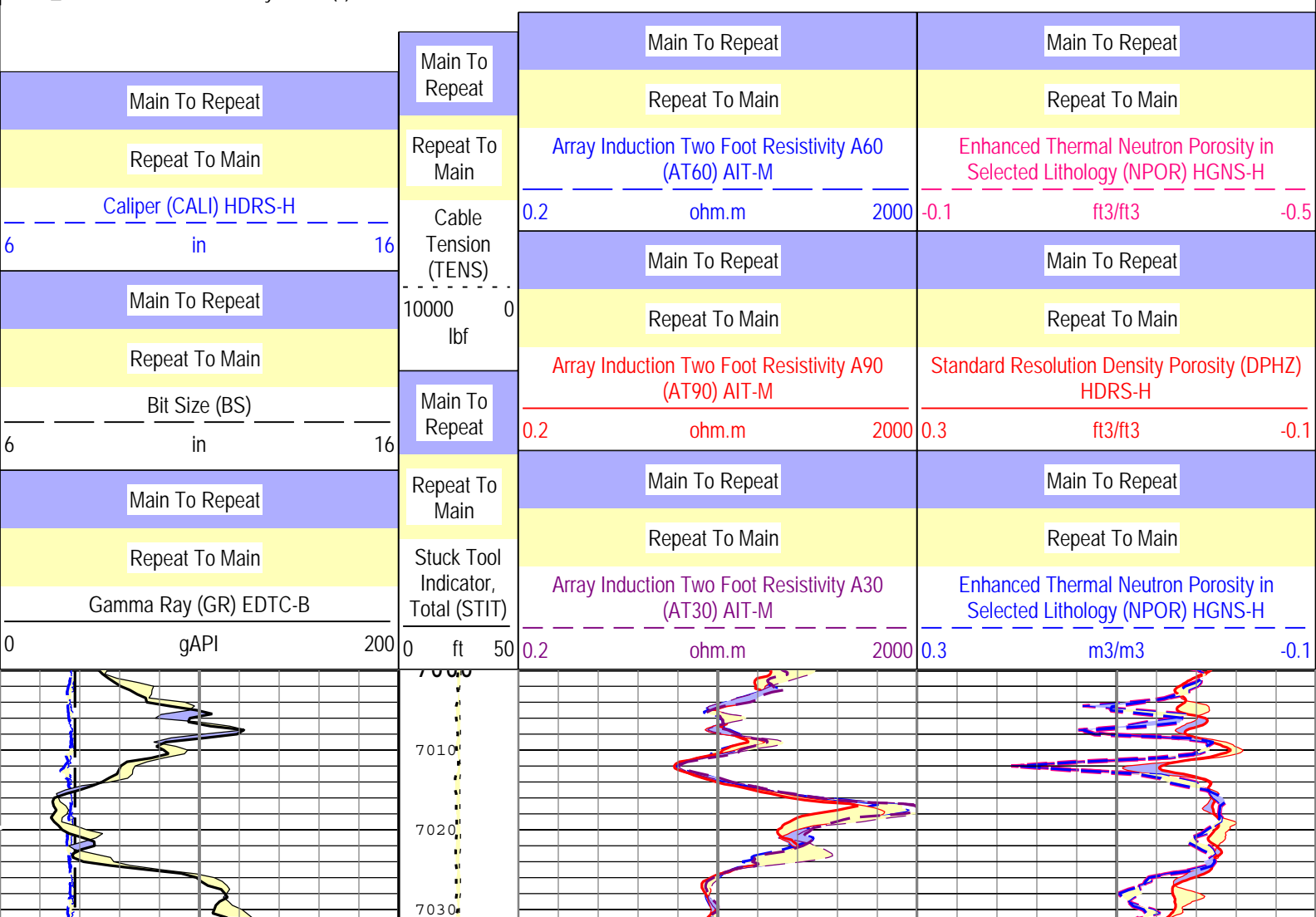
All depths are referenced to toolstring zero

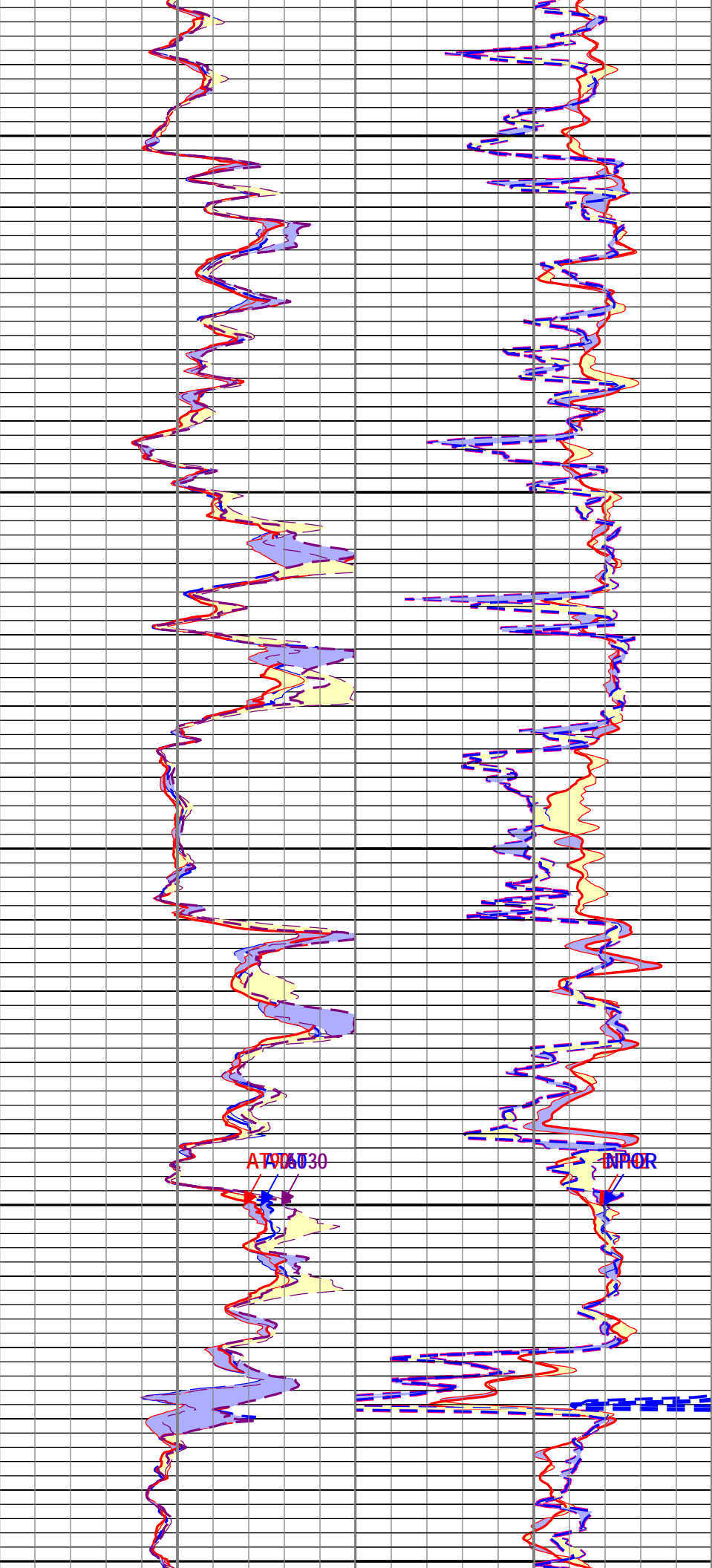
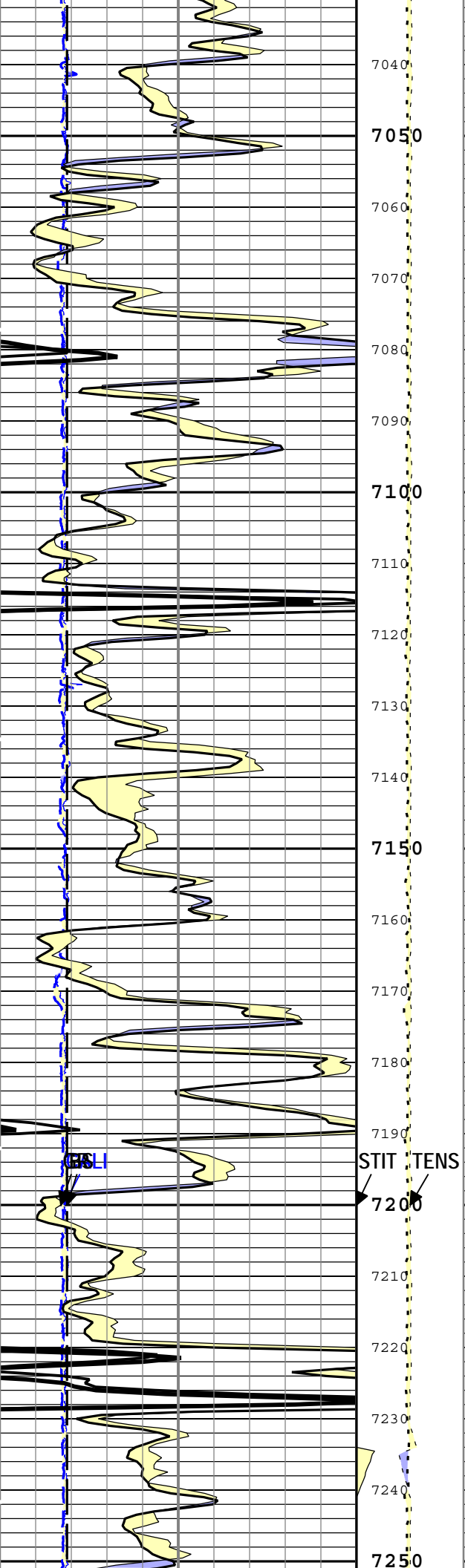
Log	Company:Nighthawk Production LLC. Well:Blackcomb 3-14 ONE A: Log[2]:Up:S016
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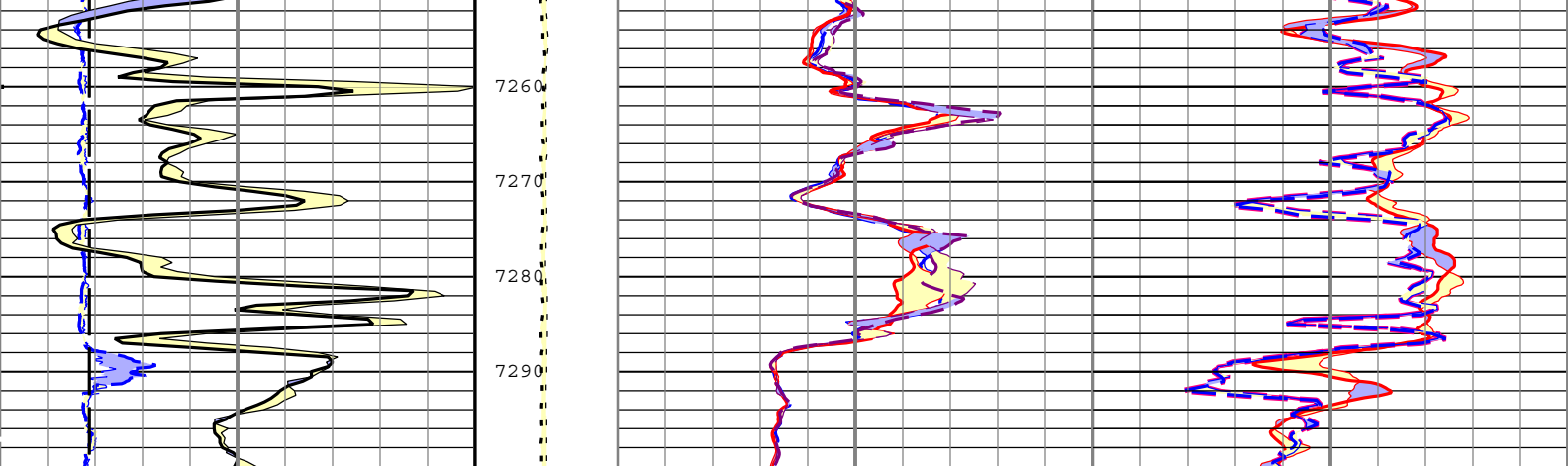
Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo Linear RA_1) Index Scale: 5 in per 100 ft

Index Unit: ft Index Type: Measured Depth Creation Date: 27-Oct-2014 15:20:34

TIME_1900 - Time Marked every 60.00 (s)







Main To Repeat	Main To Repeat	Main To Repeat	Main To Repeat
Repeat To Main	Repeat To Main	Repeat To Main	Repeat To Main
Caliper (CALI) HDRS-H 6 in 16	Repeat To Main	Array Induction Two Foot Resistivity A60 (AT60) AIT-M 0.2 ohm.m 2000	Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H -0.1 ft3/ft3 -0.5
Main To Repeat	Cable Tension (TENS) 10000 lbf	Main To Repeat	Main To Repeat
Repeat To Main	10000 lbf	Repeat To Main	Repeat To Main
Bit Size (BS) 6 in 16	Main To Repeat	Array Induction Two Foot Resistivity A90 (AT90) AIT-M 0.2 ohm.m 2000	Standard Resolution Density Porosity (DPHZ) HDRS-H 0.3 ft3/ft3 -0.1
Main To Repeat	Repeat To Main	Main To Repeat	Main To Repeat
Repeat To Main	Repeat To Main	Repeat To Main	Repeat To Main
Gamma Ray (GR) EDTC-B 0 gAPI 200	Stuck Tool Indicator, Total (STIT) 0 ft 50	Array Induction Two Foot Resistivity A30 (AT30) AIT-M 0.2 ohm.m 2000	Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H 0.3 m3/m3 -0.1

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo Linear RA_1) Index Scale: 5 in per 100 ft
Index Unit: ft Index Type: Measured Depth Creation Date: 27-Oct-2014 15:20:34

Calibration Report

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

Primary Equipment :

File code for AIT-MA Sonde Tool Element

AMIS

181

Auxiliary Equipment :

AITM Rm/SP Bottom Nose

AMRM

181

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM): 23:01:59 22-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.041	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	1.805	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.017	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.902	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.017	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	0.392	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.016	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	0.089	3.000	
Test Loop Gain - 4		Master	1.000	0.950	1.009	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	0.141	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.991	1.050	

		Before-Master	-----	-----	0.091	-----	
Thru Cal Phase - 5	deg	Master	-----	122.000	177.104	-118.000	
		Before	-----	122.000	-175.840	-118.000	
		Before-Master	-----	-----	-352.944	-----	
Thru Cal Mag - 6	V	Master	-----	1.176	1.794	2.744	
		Before	-----	1.176	1.885	2.744	
		Before-Master	-----	-----	0.091	-----	
Thru Cal Phase - 6	deg	Master	-----	121.000	177.111	-119.000	
		Before	-----	121.000	-175.818	-119.000	
		Before-Master	-----	-----	-352.929	-----	
Thru Cal Mag - 7	V	Master	-----	0.846	1.294	1.974	
		Before	-----	0.846	1.358	1.974	
		Before-Master	-----	-----	0.064	-----	
Thru Cal Phase - 7	deg	Master	-----	115.000	176.348	-125.000	
		Before	-----	115.000	-176.492	-125.000	
		Before-Master	-----	-----	-352.840	-----	
SPA Zero	mV	Master		-50.000	0.145	50.000	
		Before		-50.000	0.112	50.000	
		Before-Master	-----	-----	-0.033	-----	
SPA Plus	mV	Master		941.000	992.483	1040.000	
		Before		941.000	987.899	1040.000	
		Before-Master	-----	-----	-4.584	-----	
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	0.919	0.960	
		Before		0.870	0.915	0.960	
		Before-Master	-----	-----	-0.004	-----	

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

Primary Equipment :							
	HILT Gamma-Ray and Neutron Sonde, 150 degC		HGNS-H				
Auxiliary Equipment :							
	HGNS Accelerometer, 150 degC		HACCZ-H		6991		
	AmBe Neutron Logging Source		NSR-F		2554		
Calibration Parameter :							
	Water Temperature						
	Housing Size						
	JIG-BKG (Jig minus background reference)		165				

HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured):	04:44:19 27-Oct-2014						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	ft/s2	Before	32.2	31.5	32.1	32.8	

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM):	00:00:00 15-May-2007						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			QAT_160		
Accelerometer Reference Temperature	degF	Master		30.2	77.0	122.0	
Accelerometer Coefficients - 0		Master	-----	-----	-4298.000	-----	
Accelerometer Coefficients - 1		Master	-----	-----	50.180	-----	
Accelerometer Coefficients - 2		Master	-----	-----	-0.002	-----	
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 4		Master	-----	-----	2.754	-----	
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 7		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 8		Master	-----	-----	300.500	-----	
Accelerometer Coefficients - 9		Master	-----	-----	0.994	-----	

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM):	16:20:48 22-Oct-2014	Before (Measured):	10:38:28 24-Oct-2014	Expired by 1 days			
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Master (EEPROM):		10:26:10 21-Oct-2014		Before (Measured):		10:00:20 21-Oct-2014 Expired by 1 days	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	28.0	40.0	
		Before	0	5.0	25.6	40.0	
		Before-Master	-----	-4.2	-2.4	4.2	
Far Zero Measurement	1/s	Master	0	5.0	27.3	40.0	
		Before	0	5.0	25.4	40.0	
		Before-Master	-----	-4.1	-1.9	4.1	
Near Plus Measurement	1/s	Master	6031.0	4700.0	5698.0	6900.0	
		Before	-----	-----	-----	-----	
		Before-Master	-----	-----	-----	-----	
Far Plus Measurement	1/s	Master	2793.0	1900.0	2348.0	2900.0	
		Before	-----	-----	-----	-----	
		Before-Master	-----	-----	-----	-----	
Near Corrected Plus Measurement	1/s	Master		4700.0	5673.0	6900.0	
		Before	-----	-----	-----	-----	
		Before-Master	-----	-----	-----	-----	
Far Corrected Plus Measurement	1/s	Master		1900.0	2321.0	2900.0	
		Before	-----	-----	-----	-----	
		Before-Master	-----	-----	-----	-----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		11:08:15 24-Oct-2014 Expired by 1 days					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	71.9	120.0	
RGR Plus Measurement	gAPI	Before	185.4	157.1	170.6	206.3	
GR Calibration Gain		Before	0.89	0.80	0.97	1.05	

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

Primary Equipment :		EDTC-B					
Calibration Parameter :		Plus Reference (Jig minus background reference)					

EDTC-B Accelerometer Calibration - EDTC-B Accelerometer Calibration

Before (Measured):		04:45:23 27-Oct-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	ft/s2	Before	32.19	31.53	32.00	32.84	

EDTC-B Memory Data - EDTC-B Memory Data

Master (EEPROM):		12:26:58 27-Oct-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Initial PMT HV	V	Master			1434.000		
Accelerometer Serial Number		Master			390		
Accelerometer Coefficients - 0		Master	-----	-----	2.894	-----	
Accelerometer Coefficients - 1		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 2		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 4		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 7		Master	-----	-----	-0.005	-----	
Accelerometer Coefficients - 8		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 9		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 10		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 11		Master	-----	-----	0.000	-----	
Gamma-Ray Detector Serial Number		Master			7240		

EDTC-B Gamma-Ray Calibration - Gamma Ray Coefficients

Before (Measured):		17:44:15 24-Oct-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Gain		Before	1.000	0.900	1.092	1.100	

EDTC-B Gamma-Ray Calibration - Gamma Ray Accumulations

Before (Measured):		17:44:15 24-Oct-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	

RGR Zero Measurement	gAPI	Before		0	72.554	120.000	<div><div></div><div></div><div></div><div></div></div>
RGR Plus Measurement	gAPI	Before	165.000	150.000	151.051	180.000	<div><div></div><div></div><div></div><div></div></div>

Company:	Nighthawk Production LLC.	Schlumberger
Well:	Blackcomb 3-14	
Field:	Arikaree Creek	
County:	Lincoln	
Country:	USA	
Platform Express Field Print		
Triple Combo		
Induction & Nuclear		