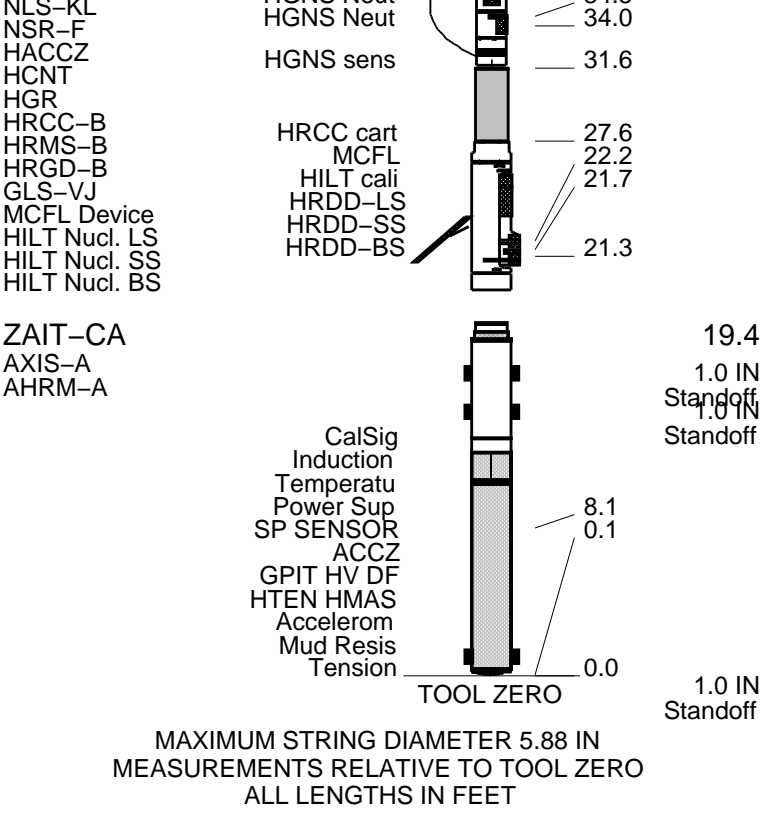


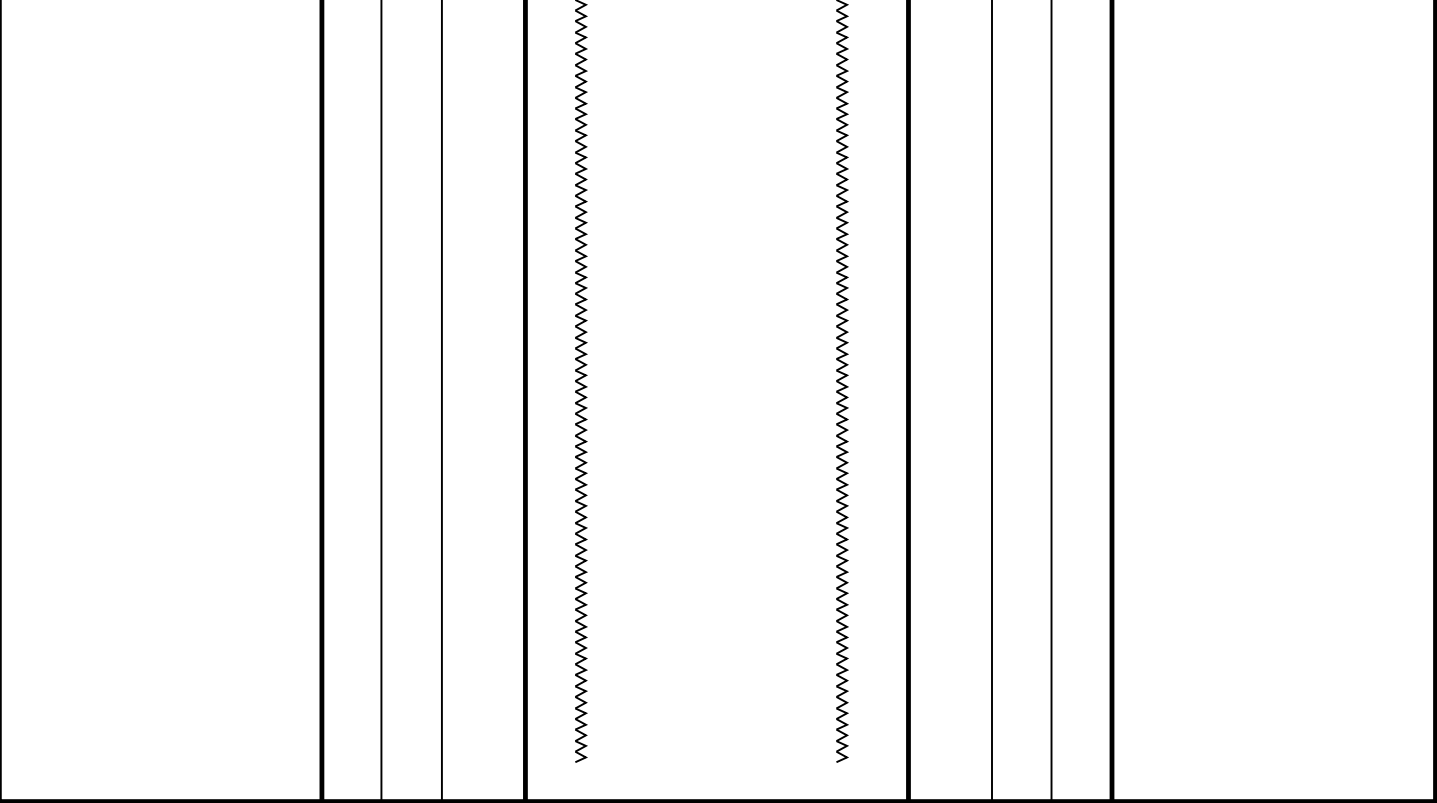


Due to difficulty's acquiring filtrate and mudcake samples, the values were calculated





Production String	(in)			(ft)	Well Schematic	(ft)	(in)			Casing String
	OD	ID	MD				MD	OD	ID	
						0.0	9.625			Casing String
						2188.0	9.625			Casing Shoe
						2188.0	8.750			Borehole Segment



All Depths are Driller's  
Depths



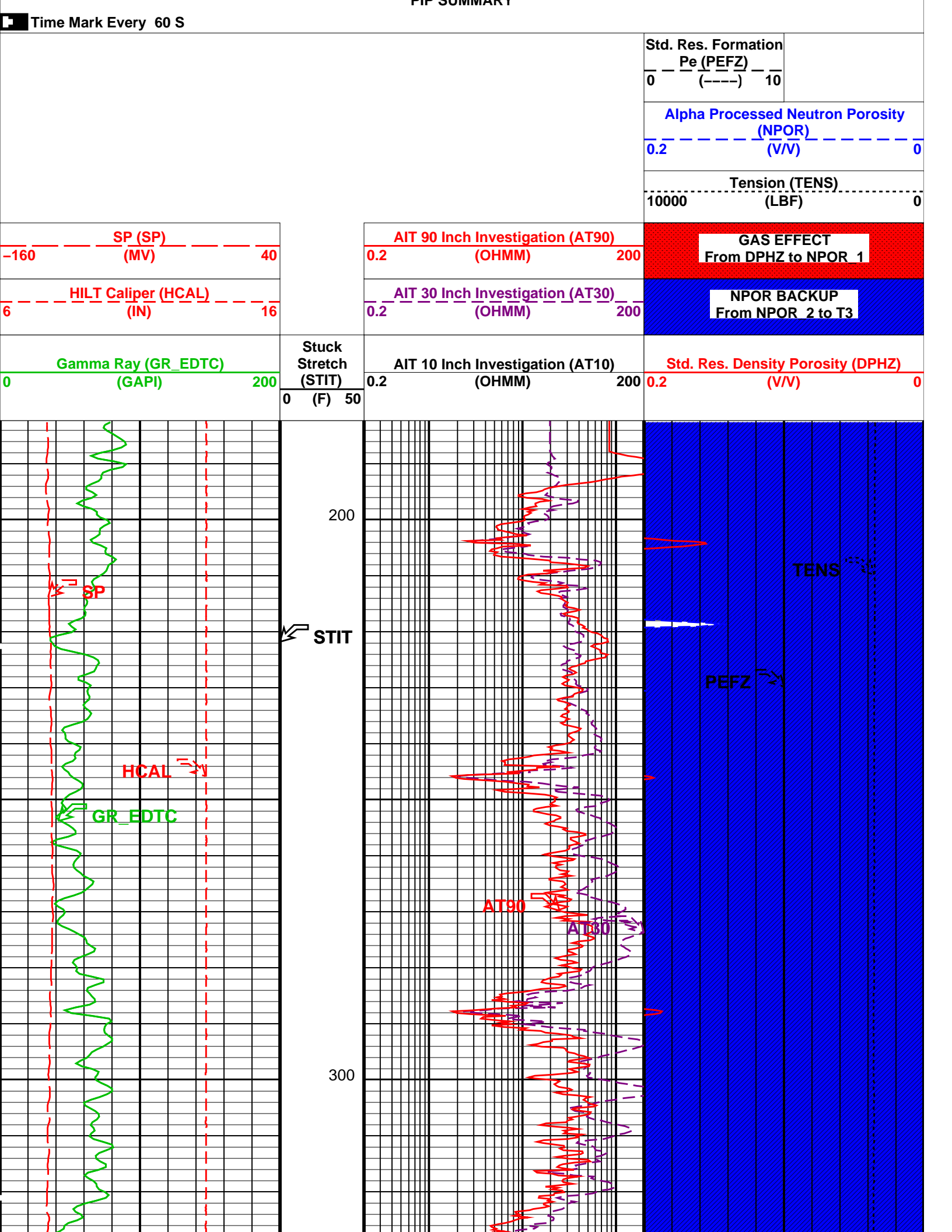
Combo Log 5'' = 100'

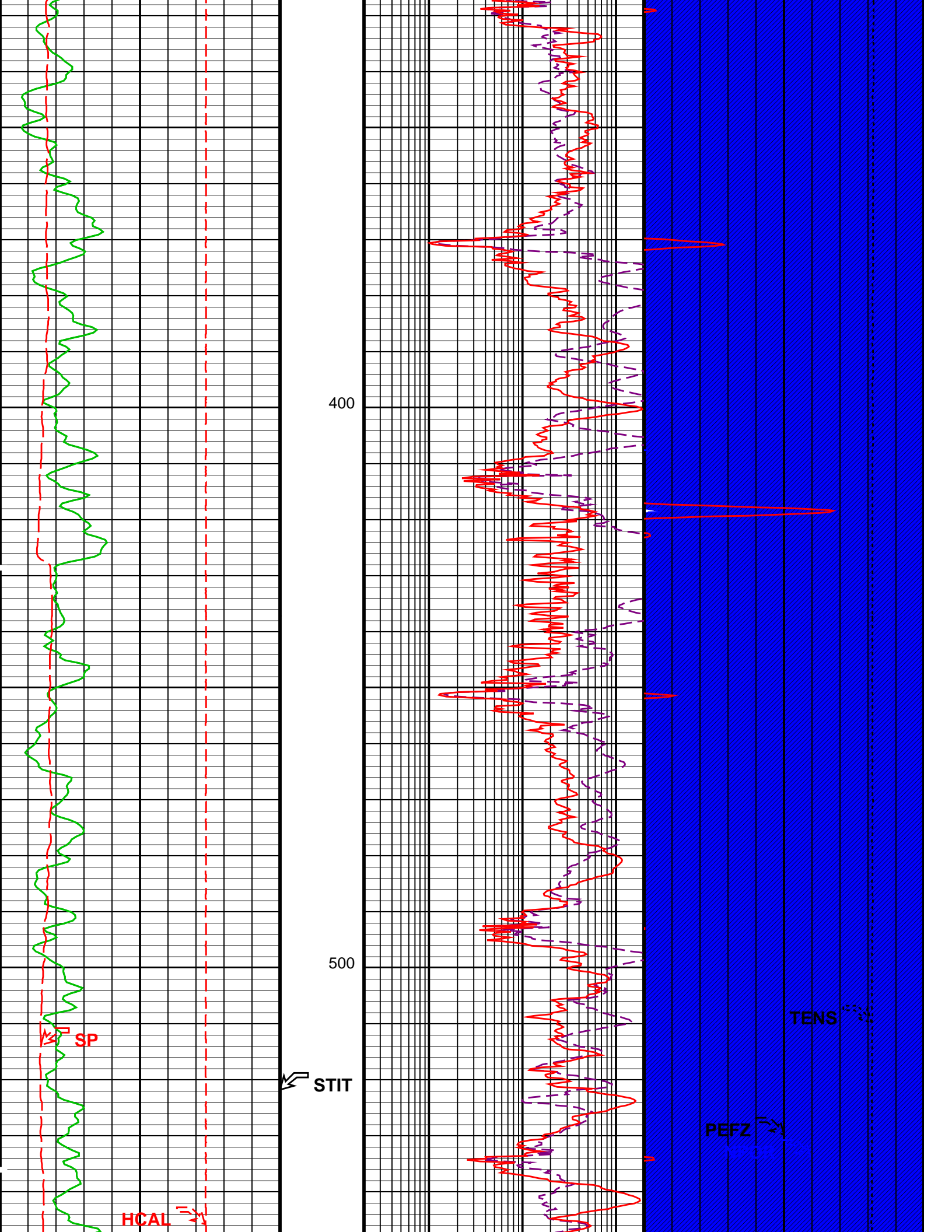
MAXIS Field Log

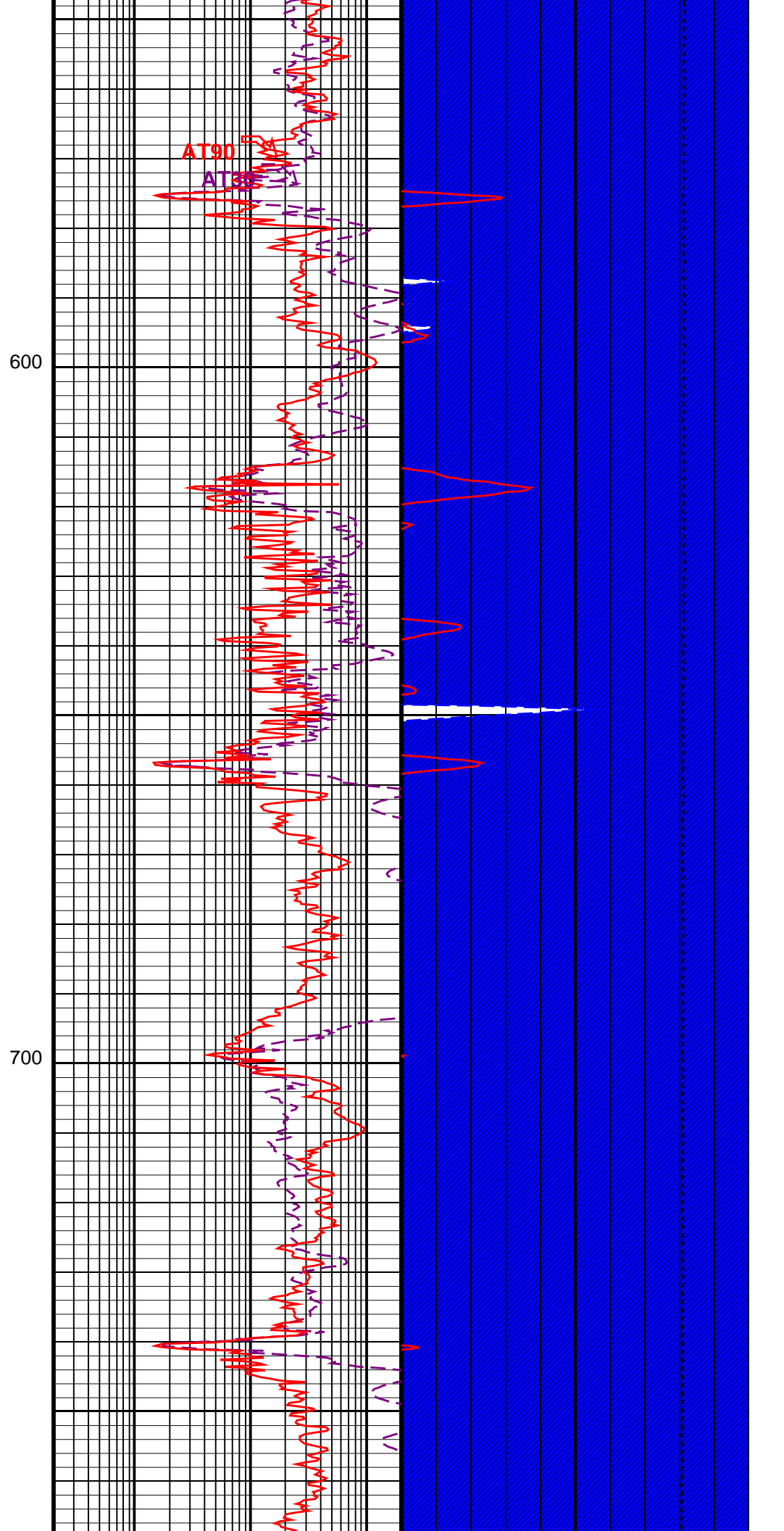
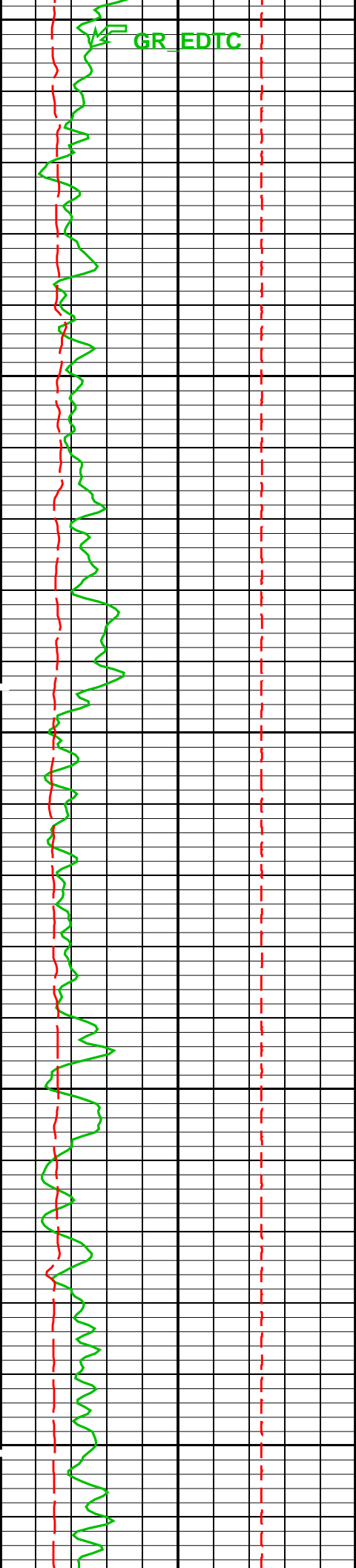
Company: Conoco Phillips Company Well: Tebo 32-2

Input DLIS Files						
DEFAULT	Splice_AIT_TLD_MCFL_051CUP	FN:1	PRODUCER	17-Jan-2012 02:09	8691.0 FT	182.0 FT
Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_052PUP	FN:50	PRODUCER	17-Jan-2012 02:16	8691.0 FT	182.0 FT

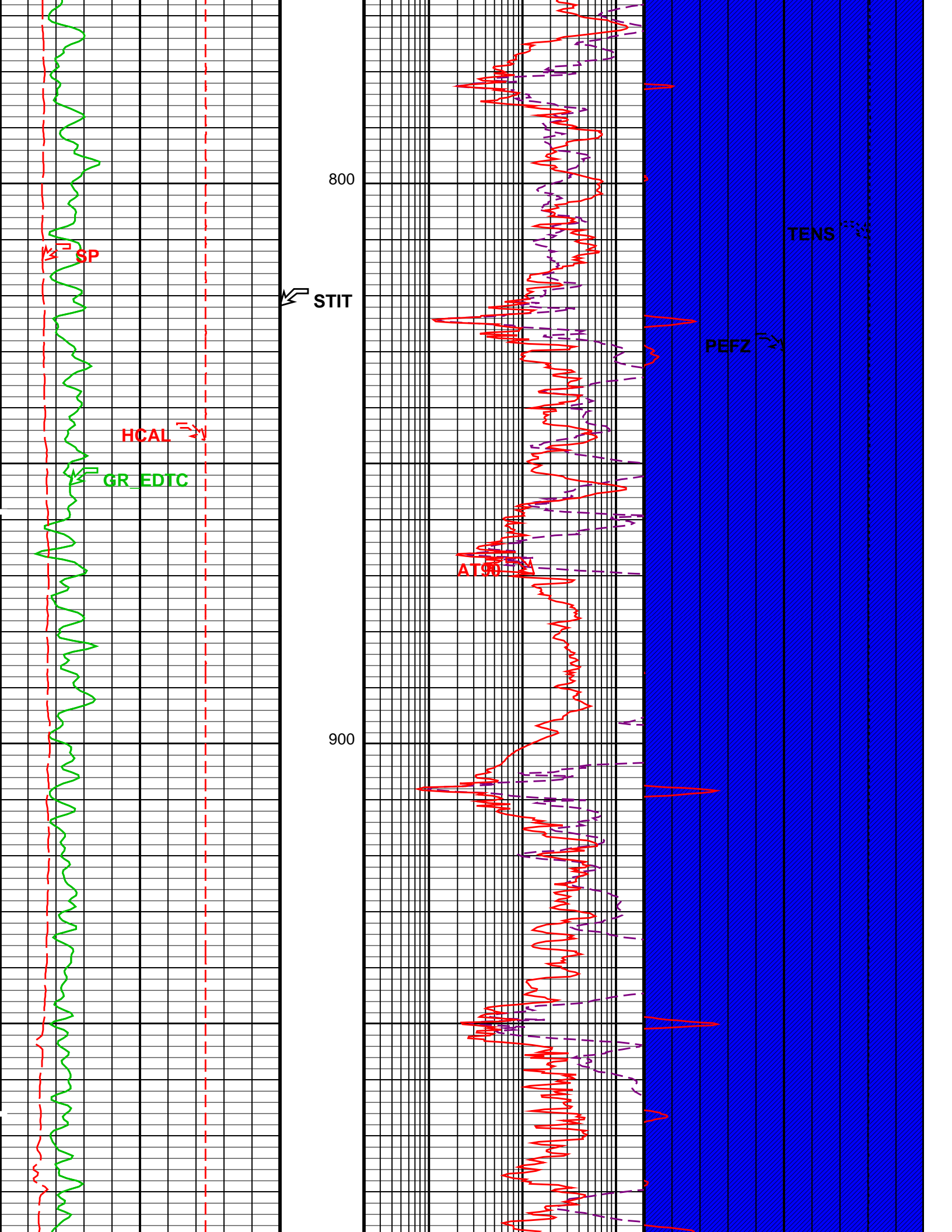
OP System Version: 19C0-187						
ZAIT-CA	19C0-187		HILTB-FTB	19C0-187		
GPIT-C	19C0-187		ECS-HP	19C0-187		
ECC-B	19C0-187		ADT-C	SRPC-5035-ADT-C		
EDTC-B	19C0-187					

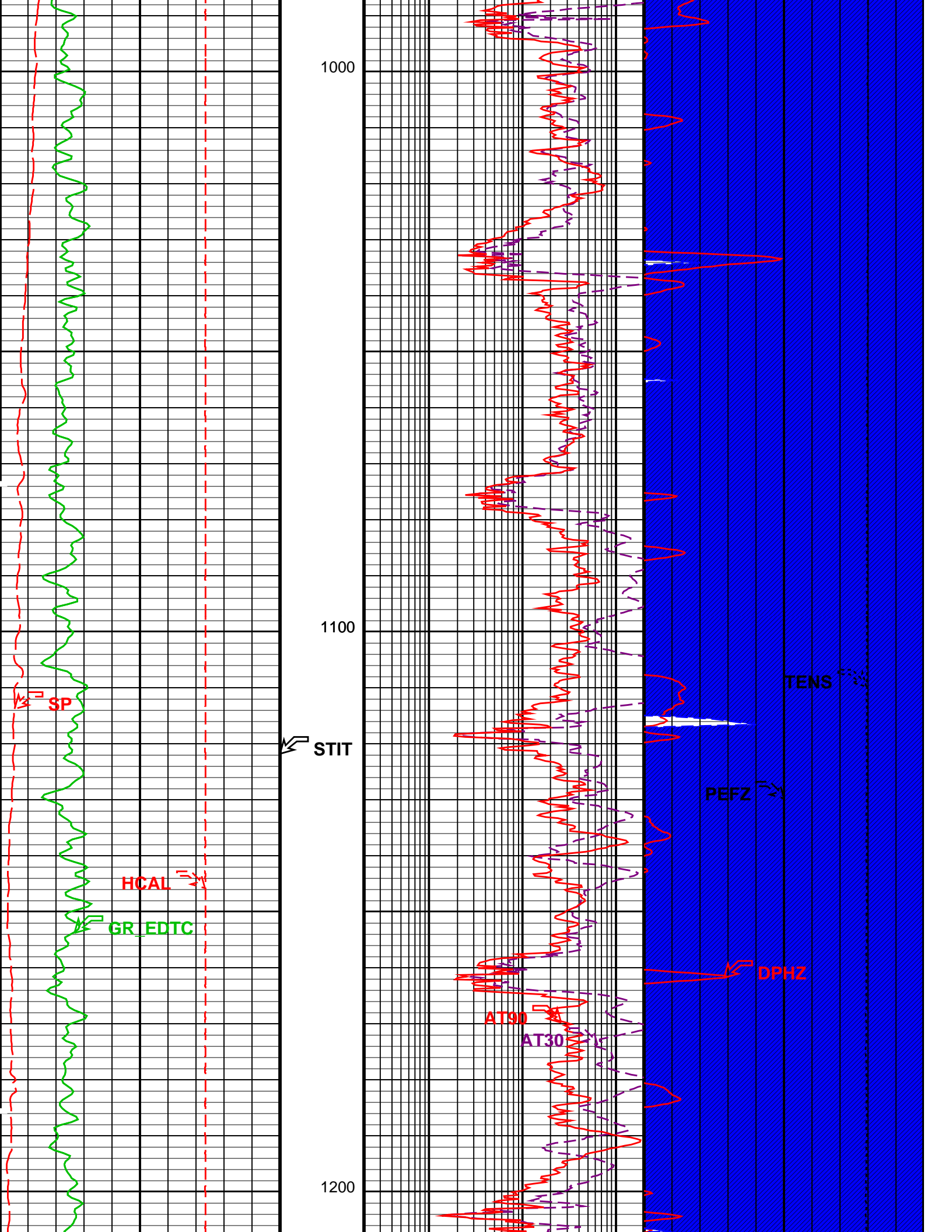


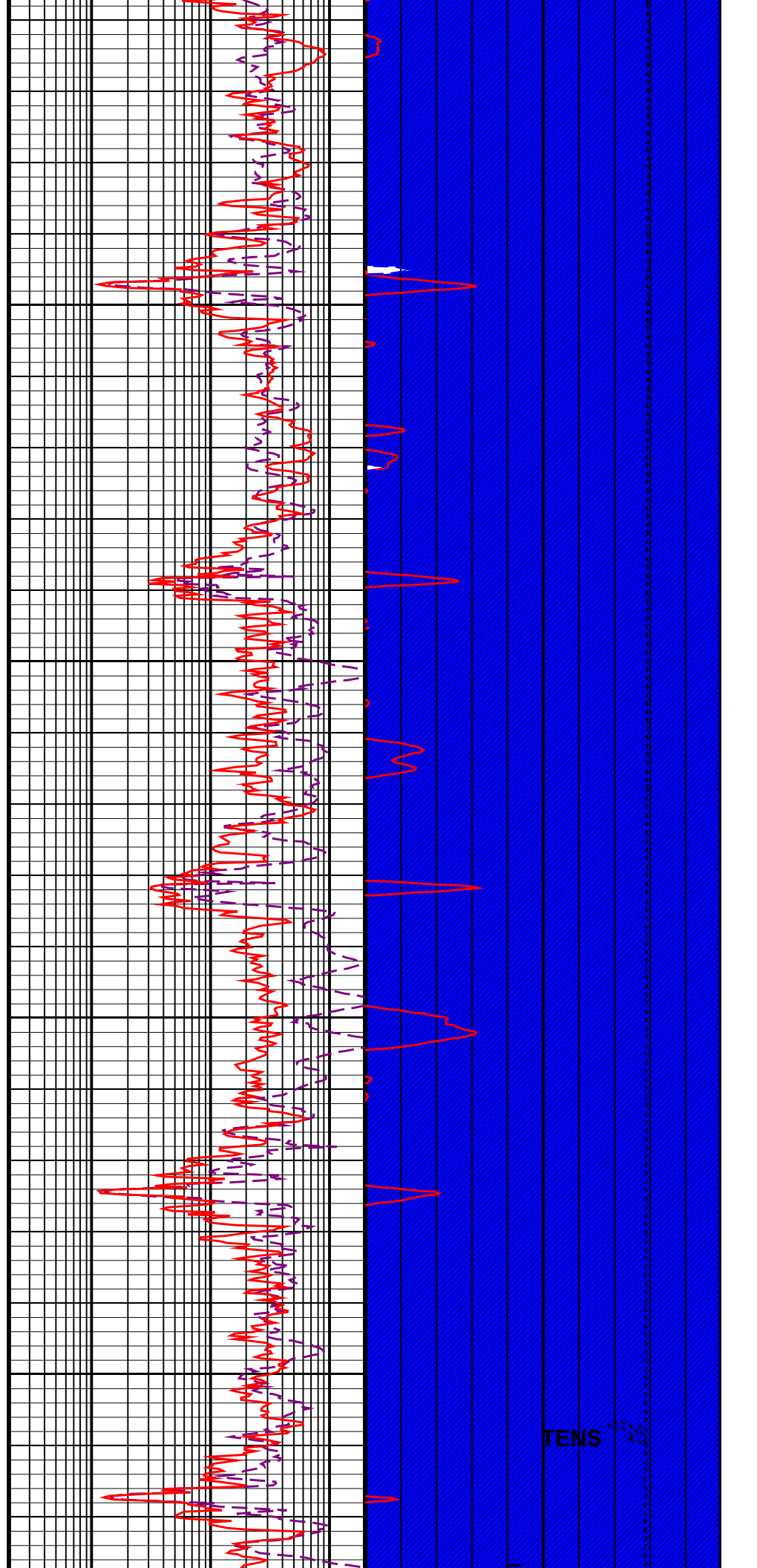
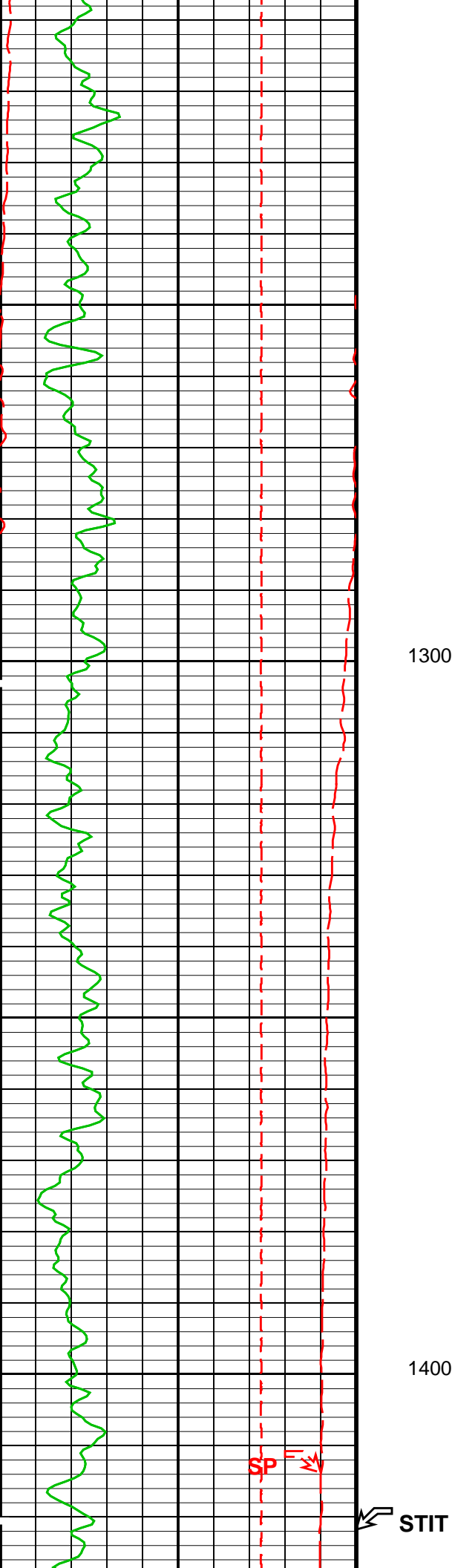




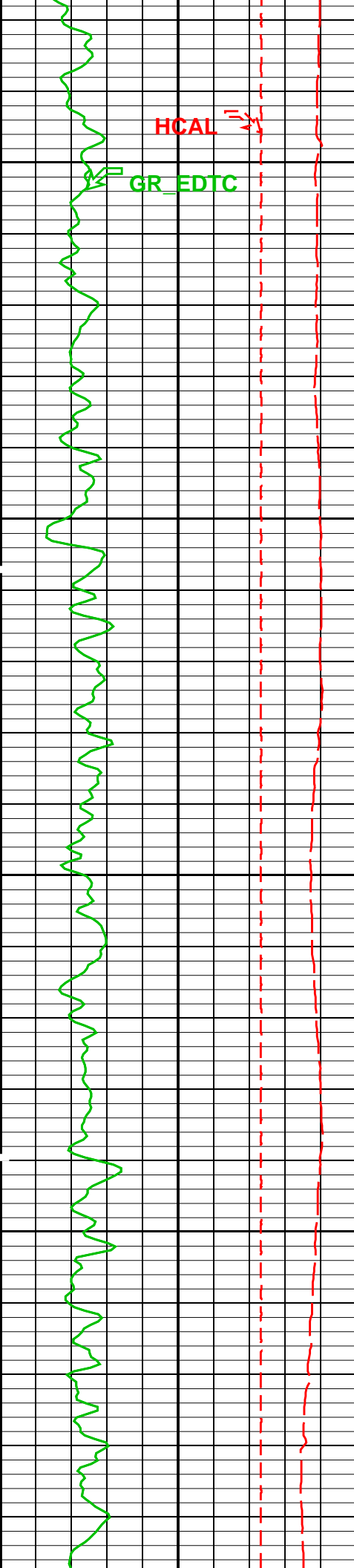






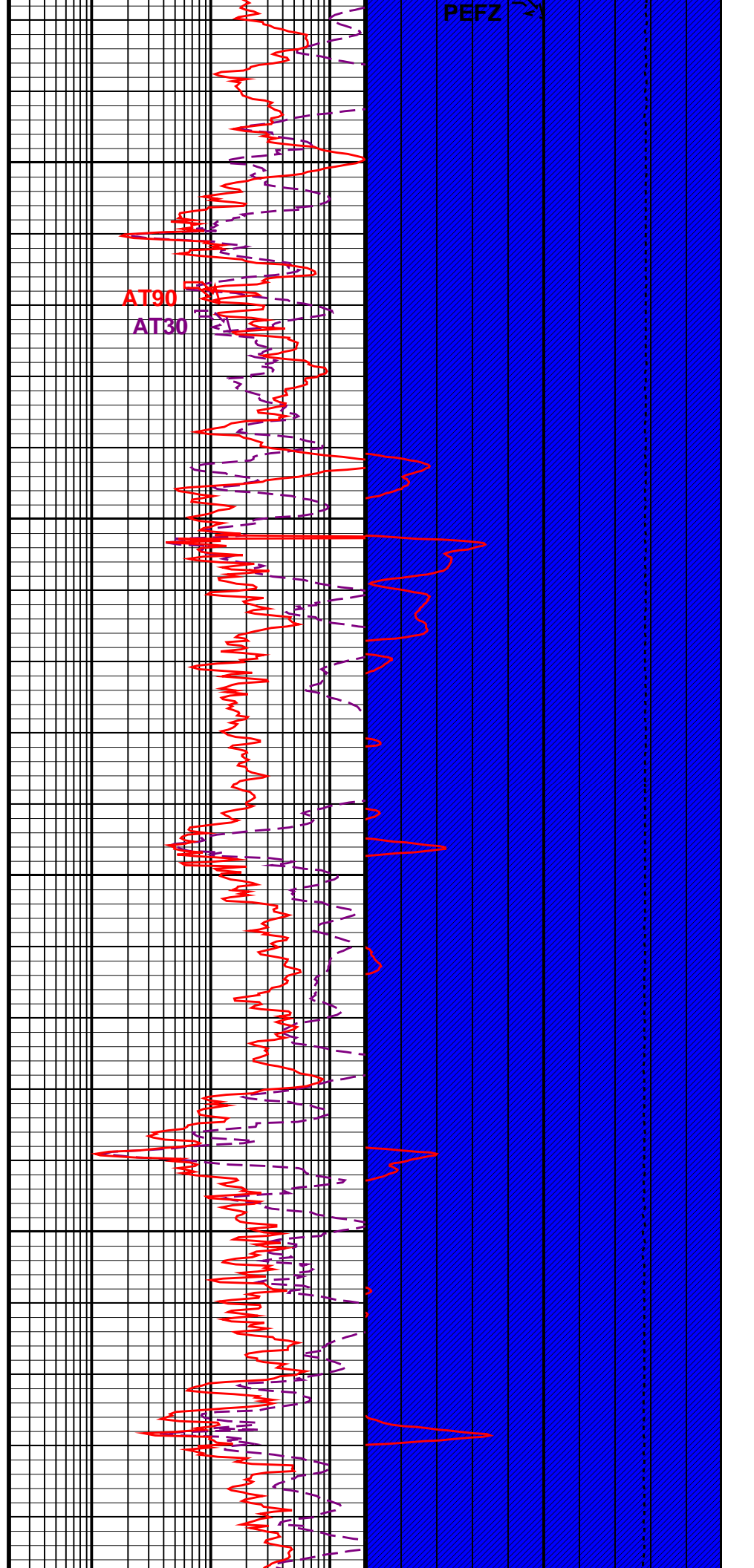


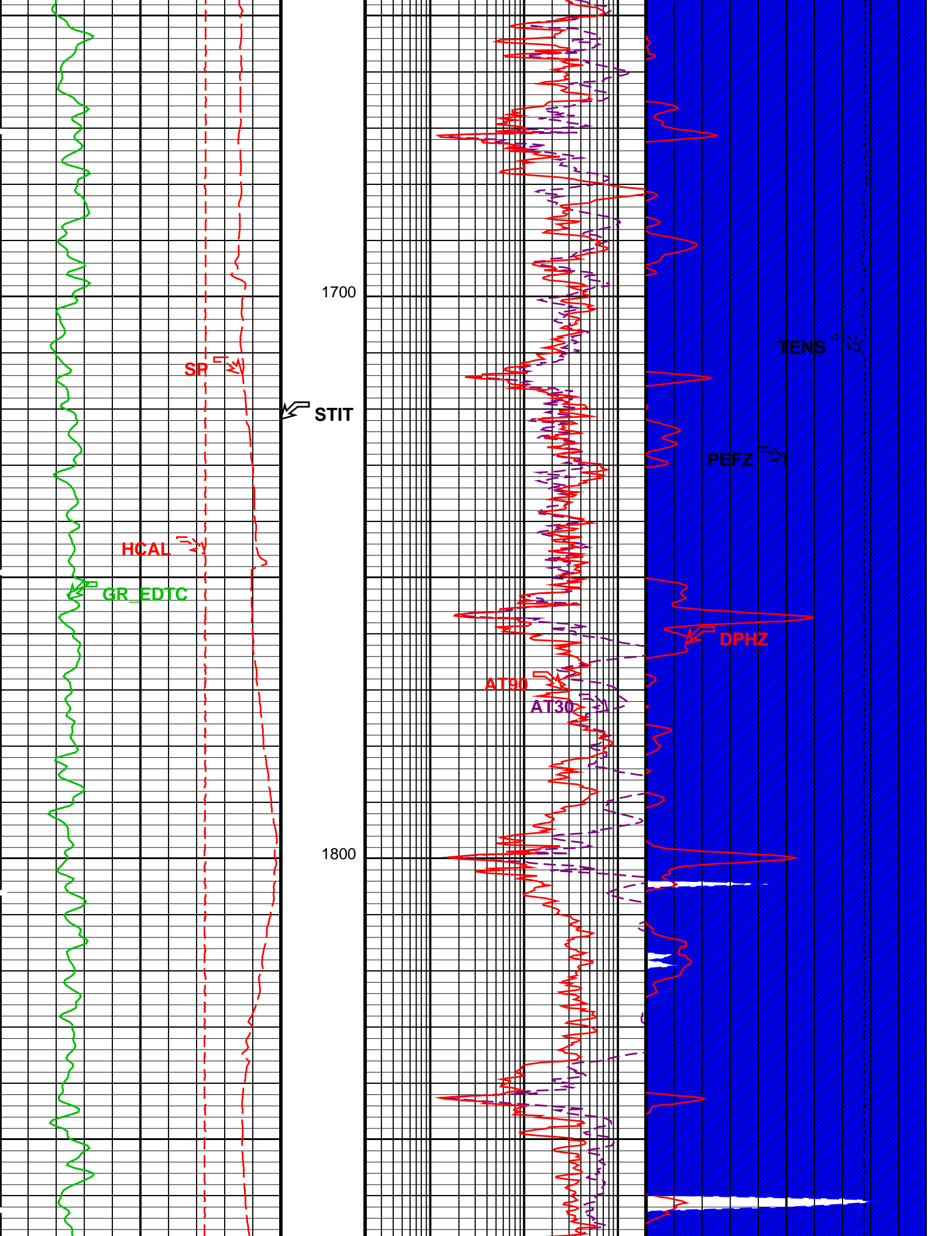


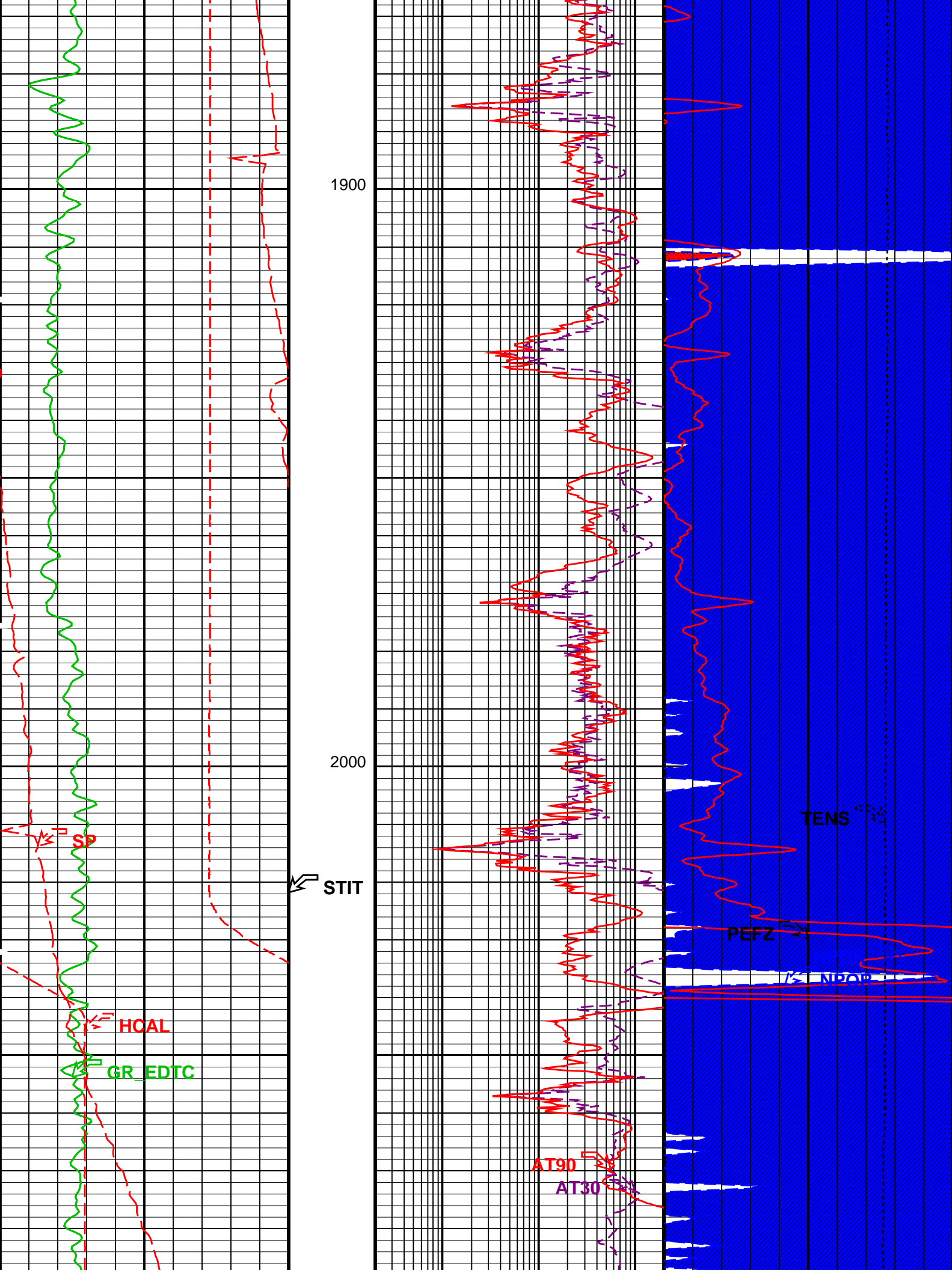


1500

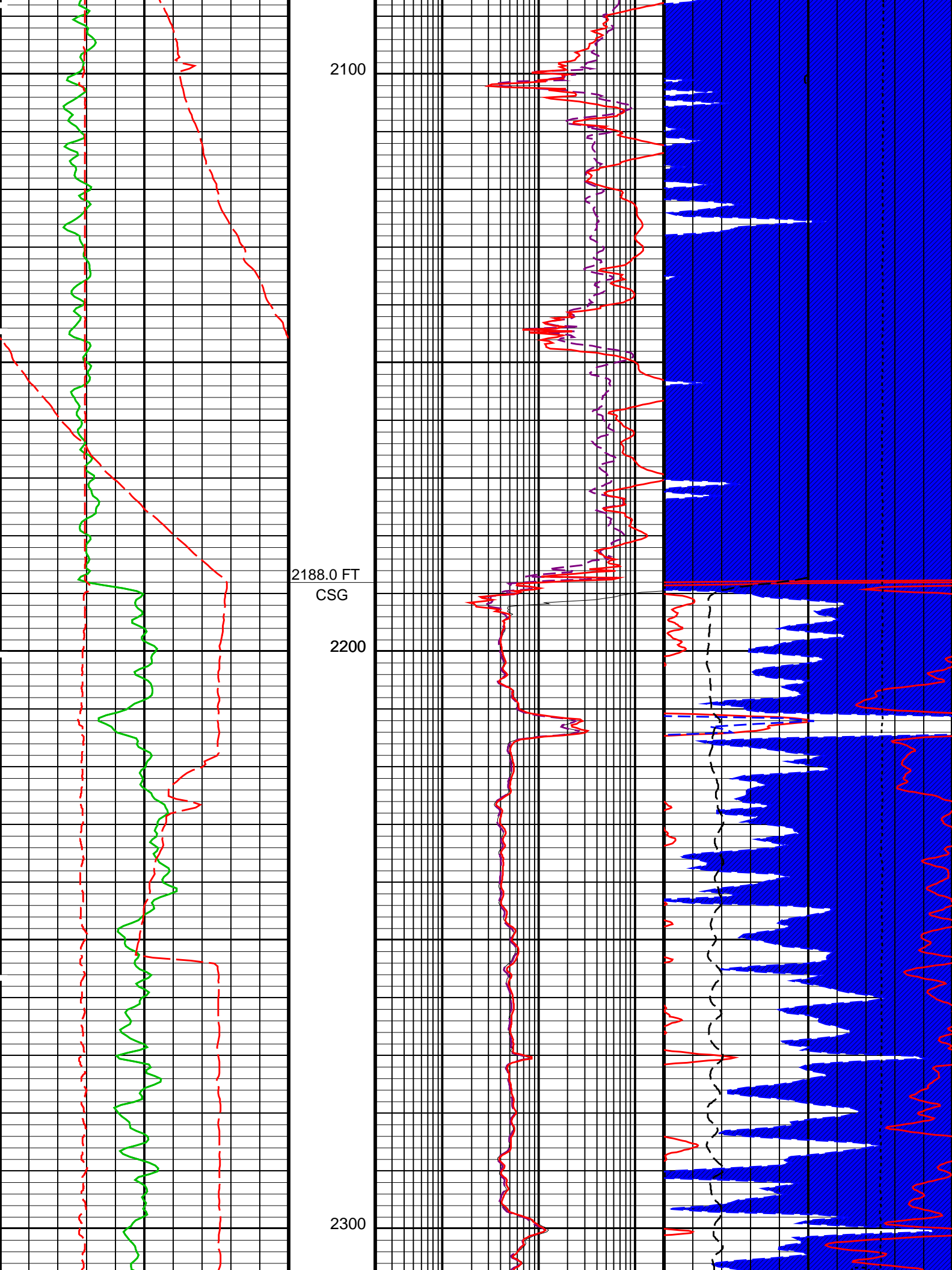
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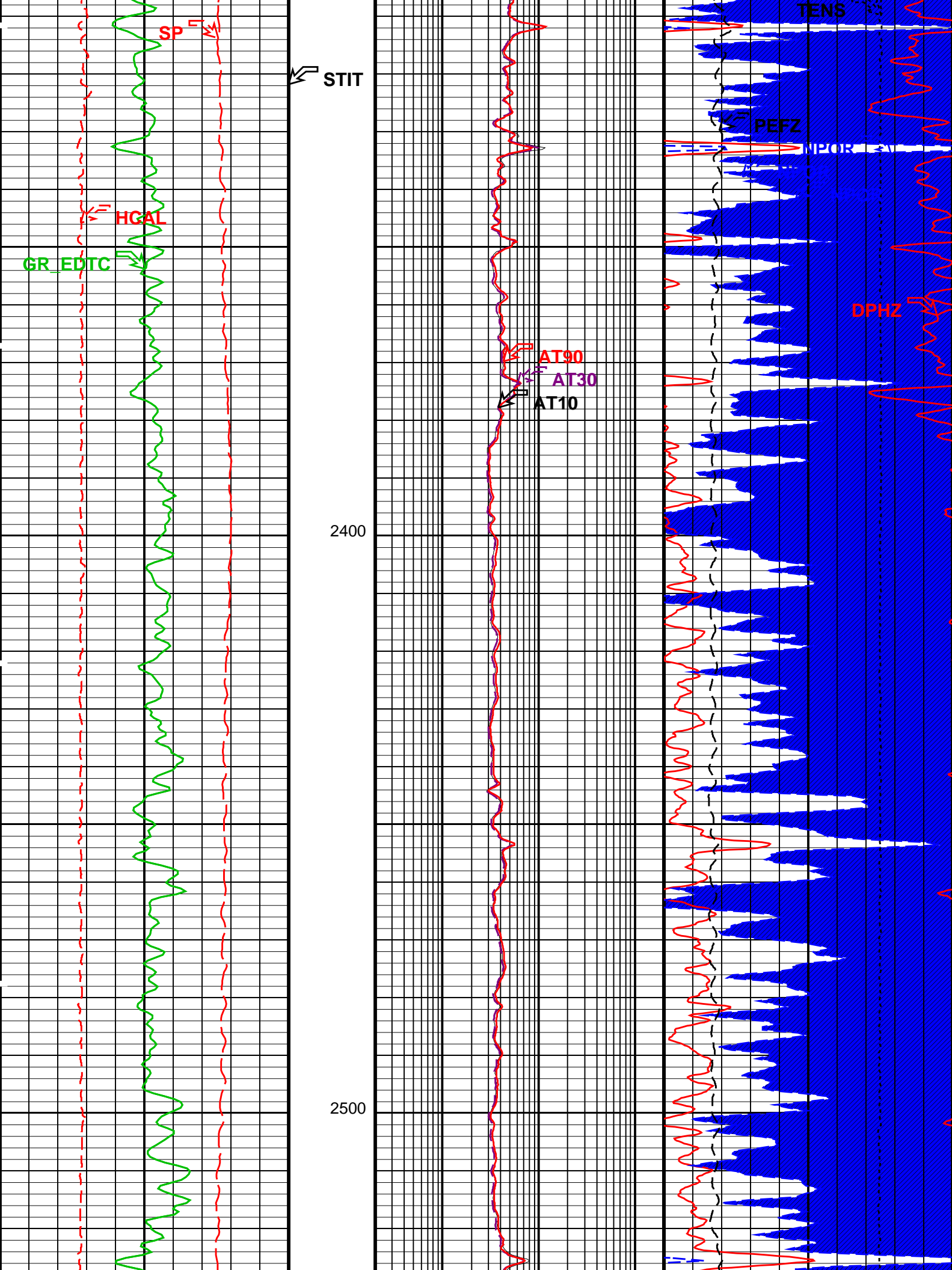




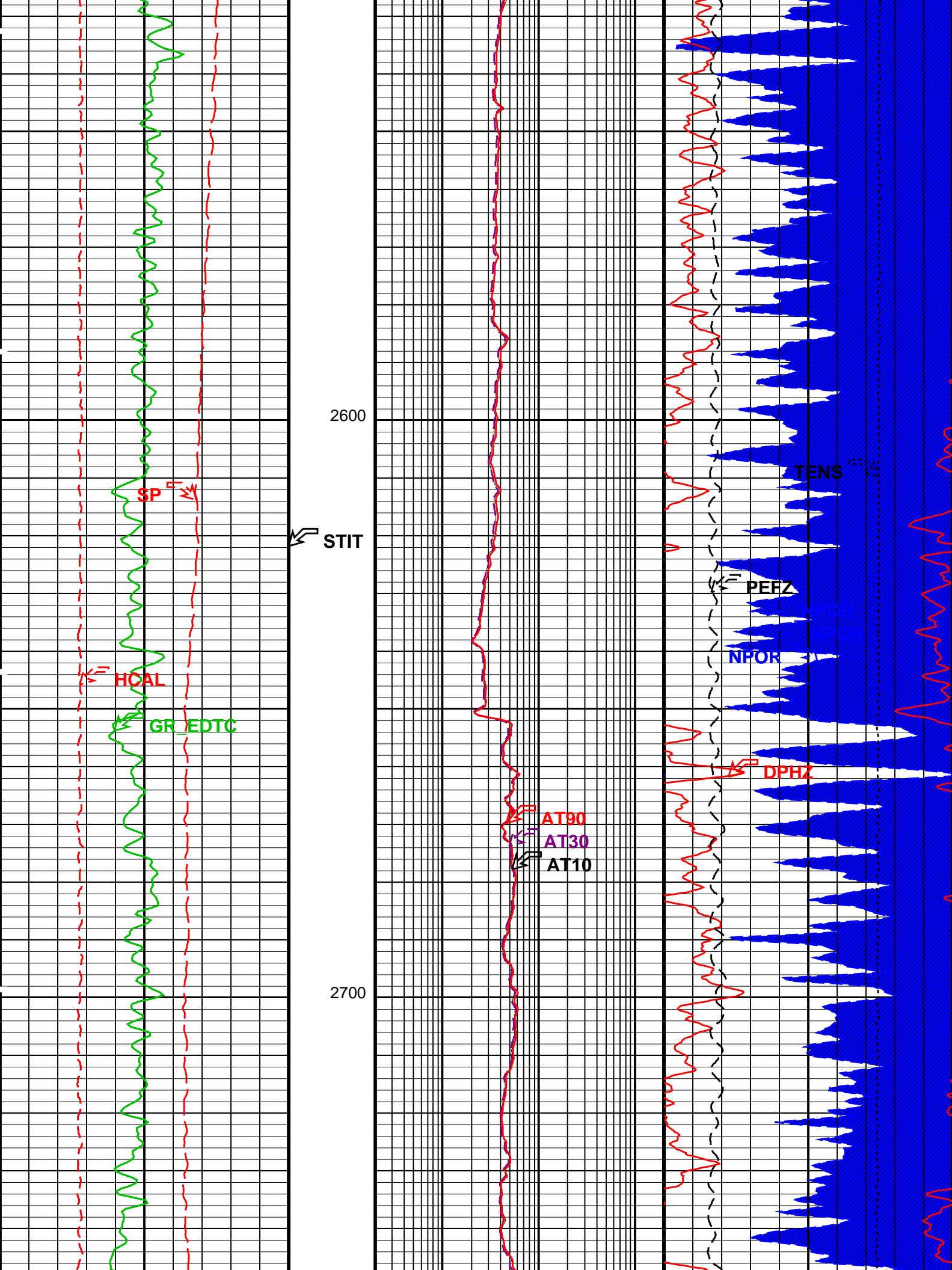


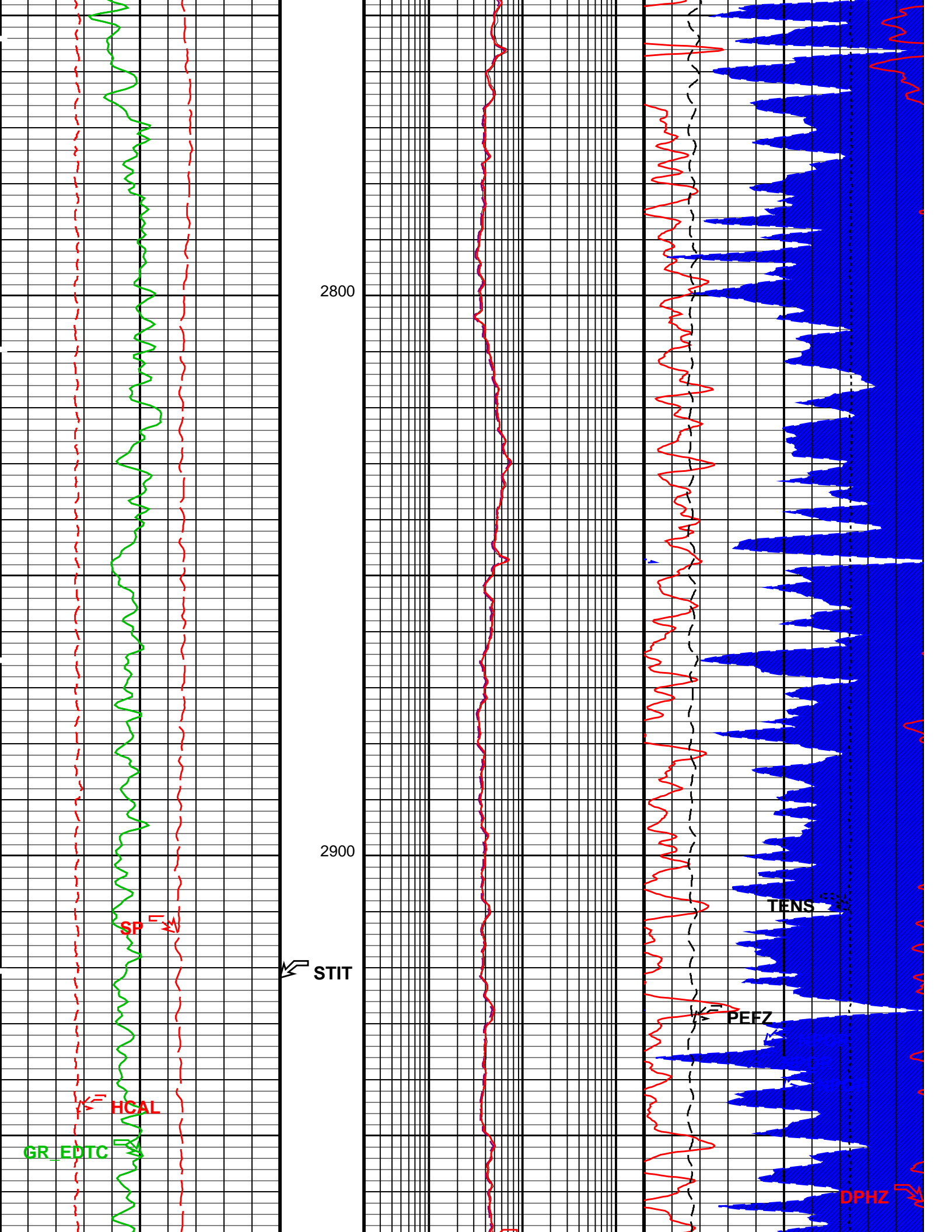


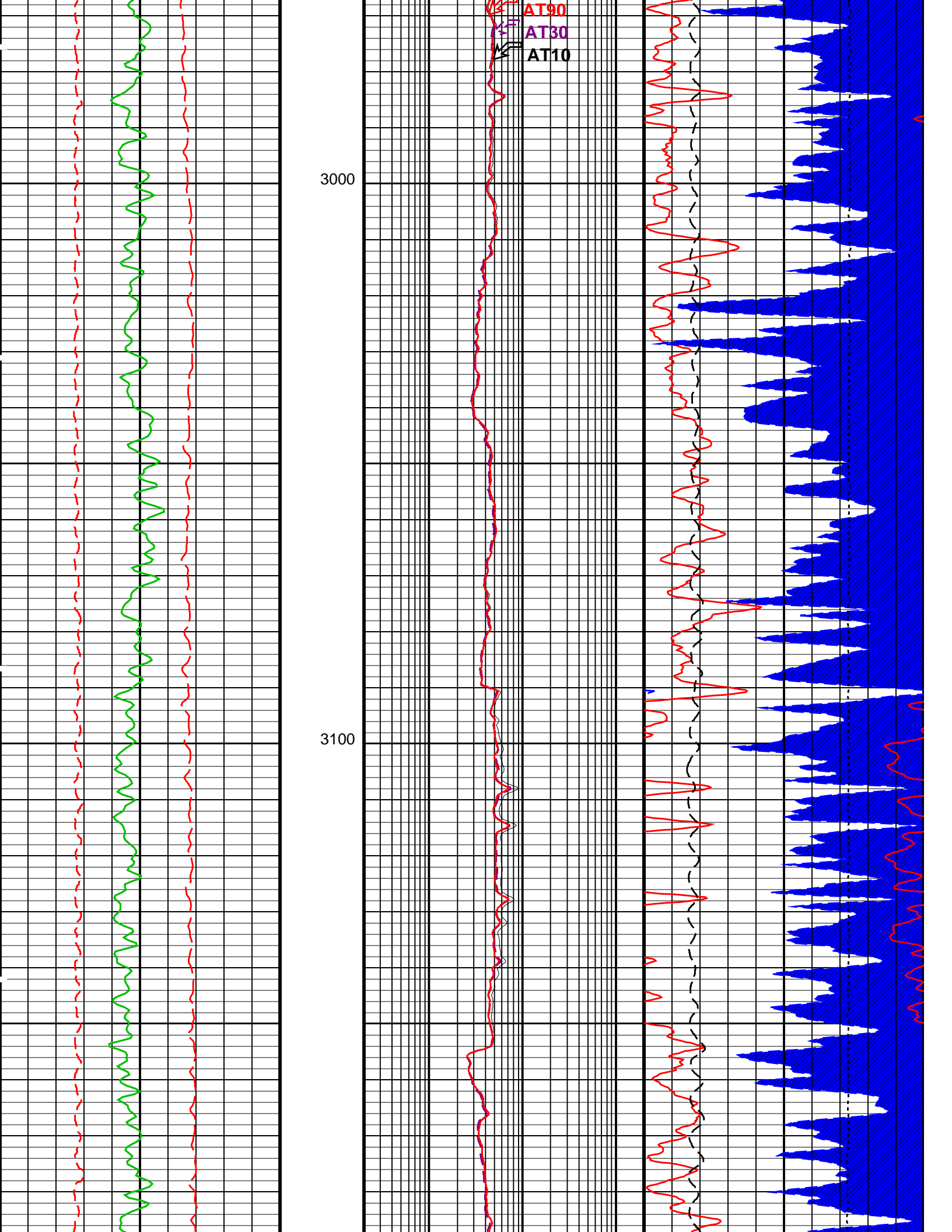


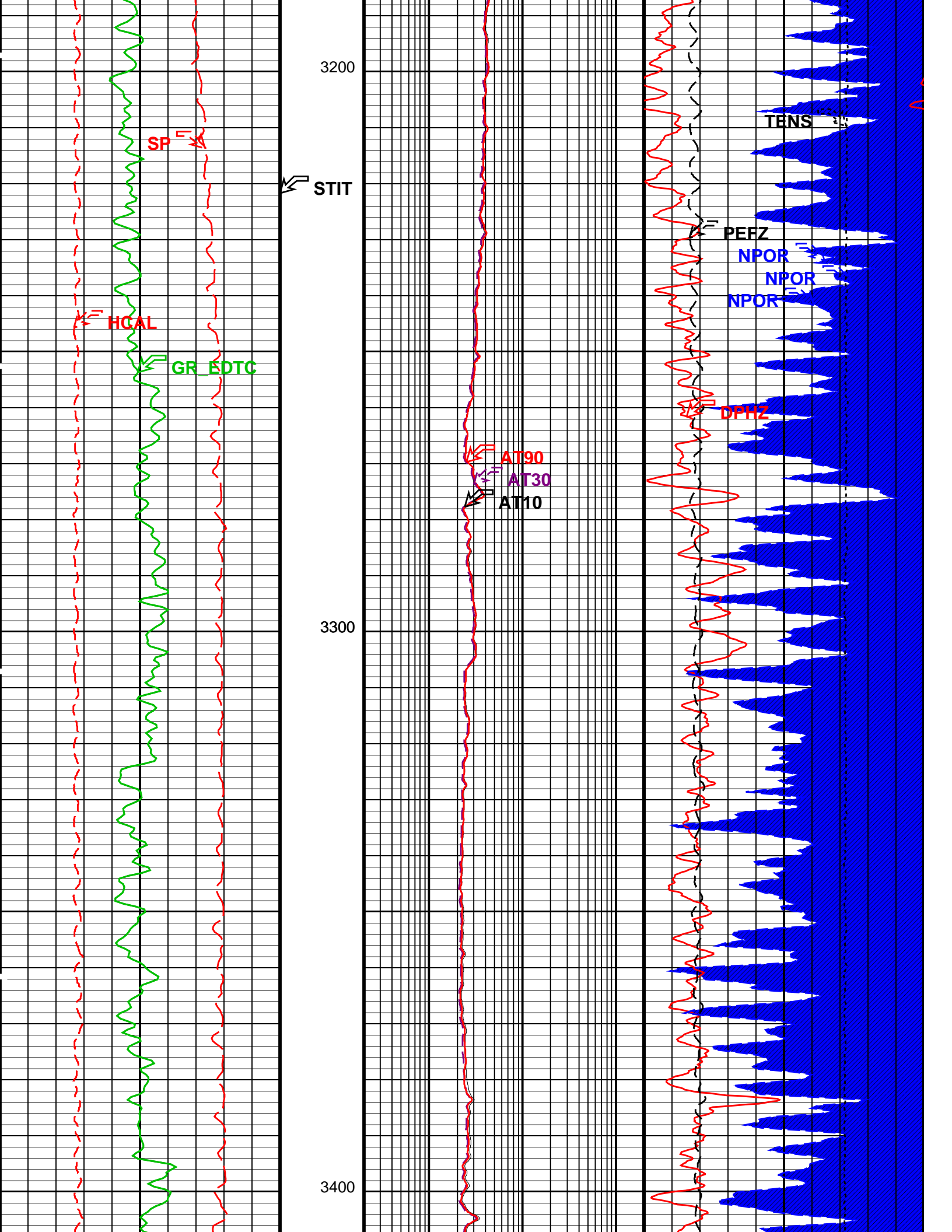


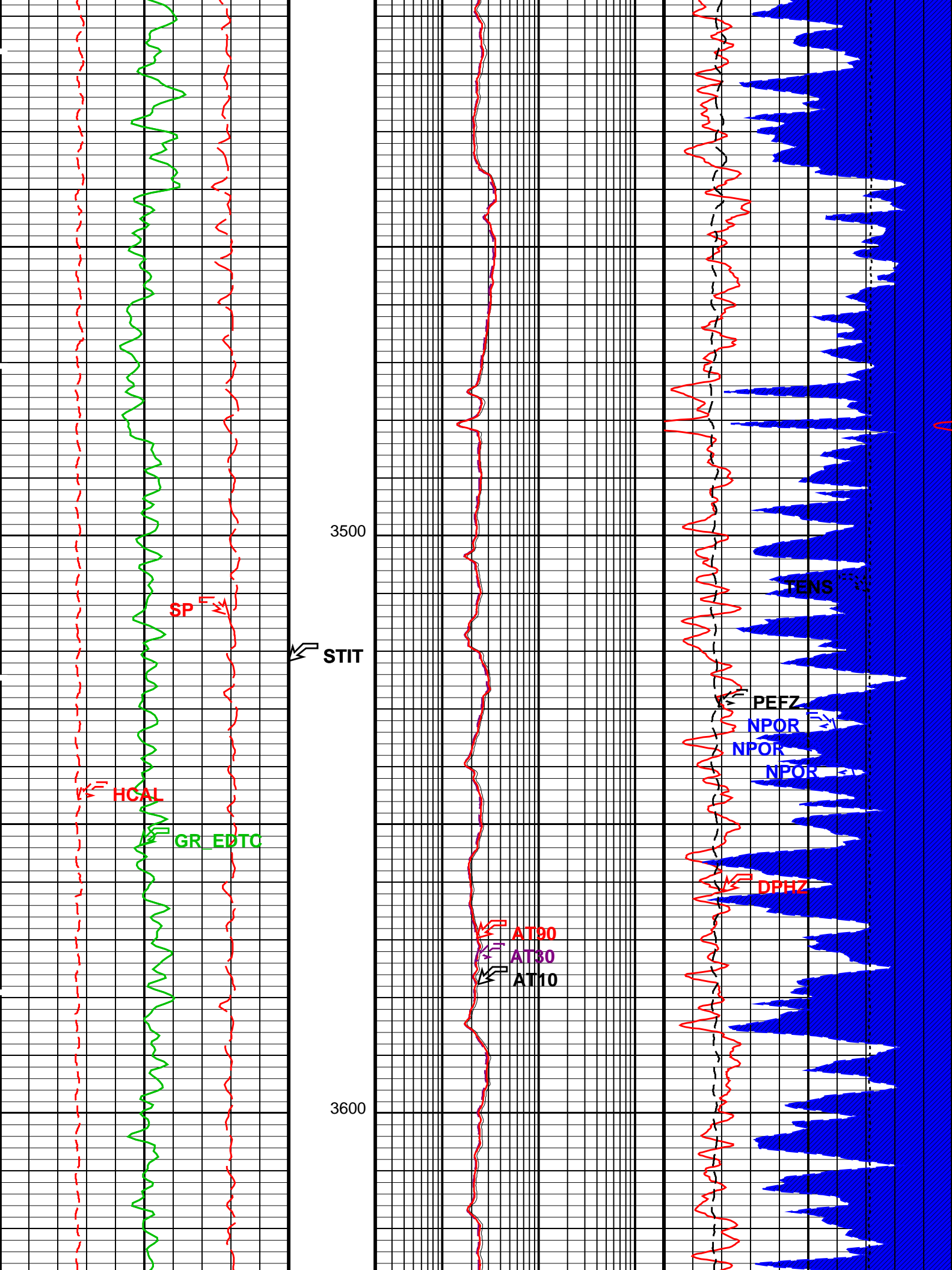




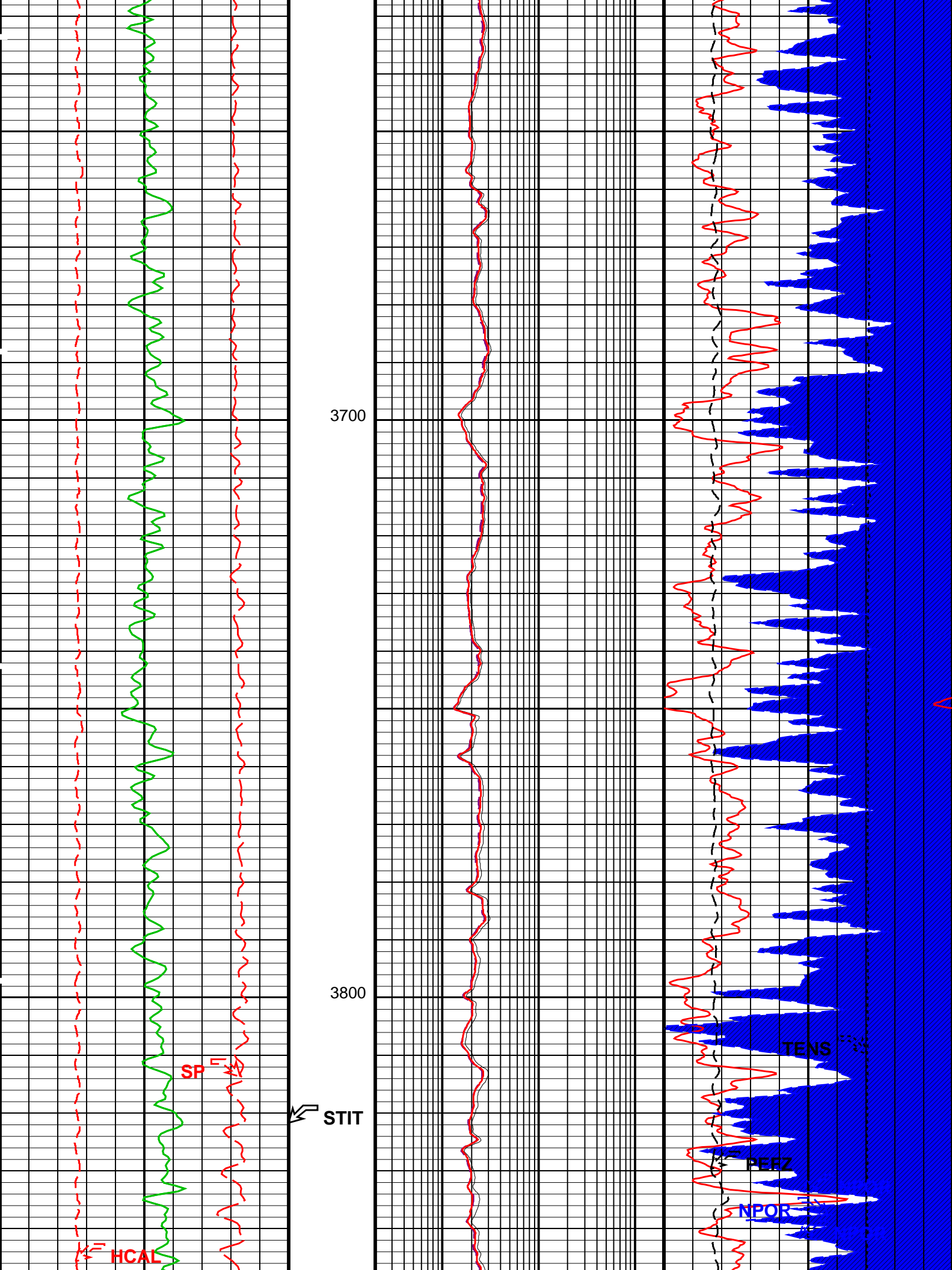


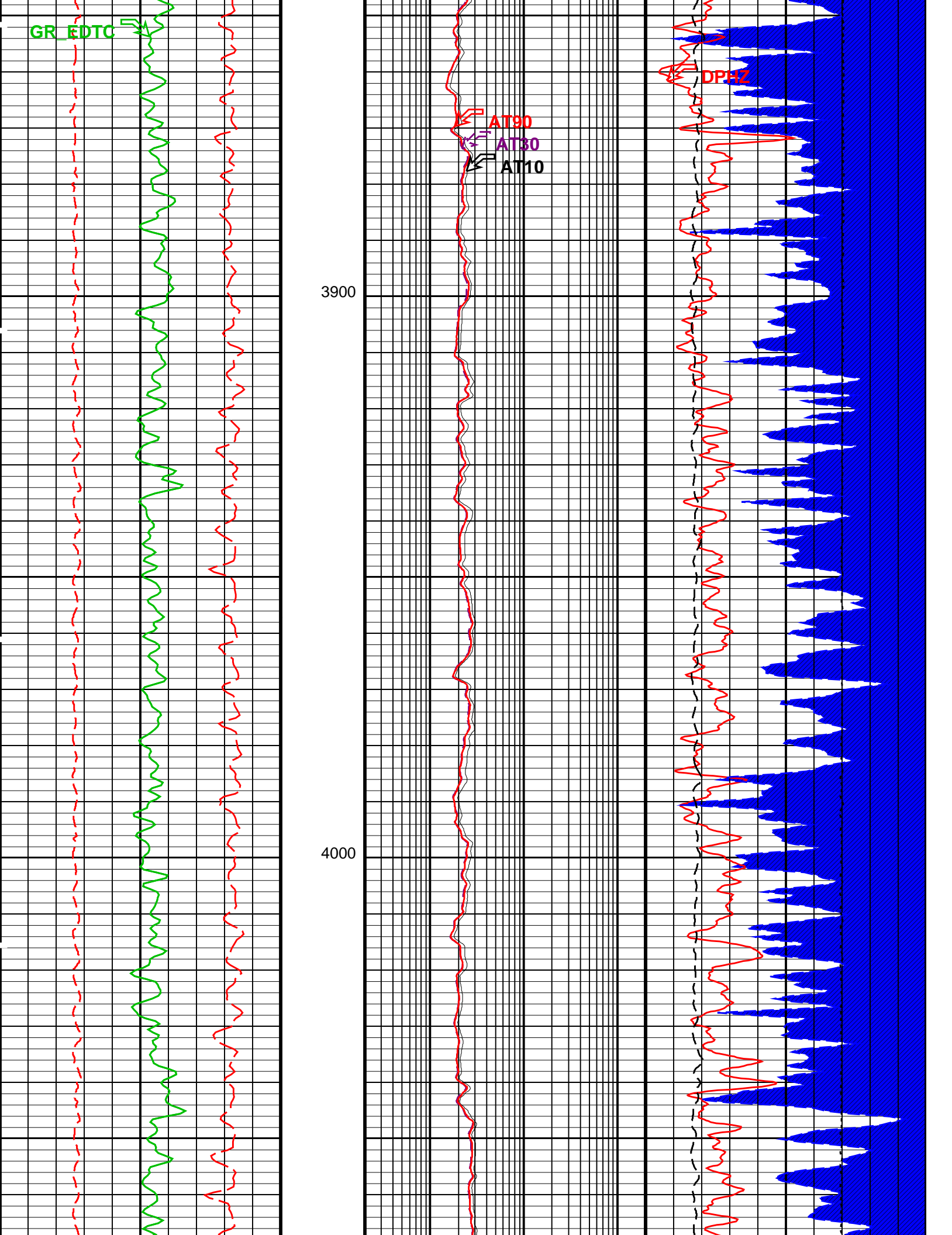


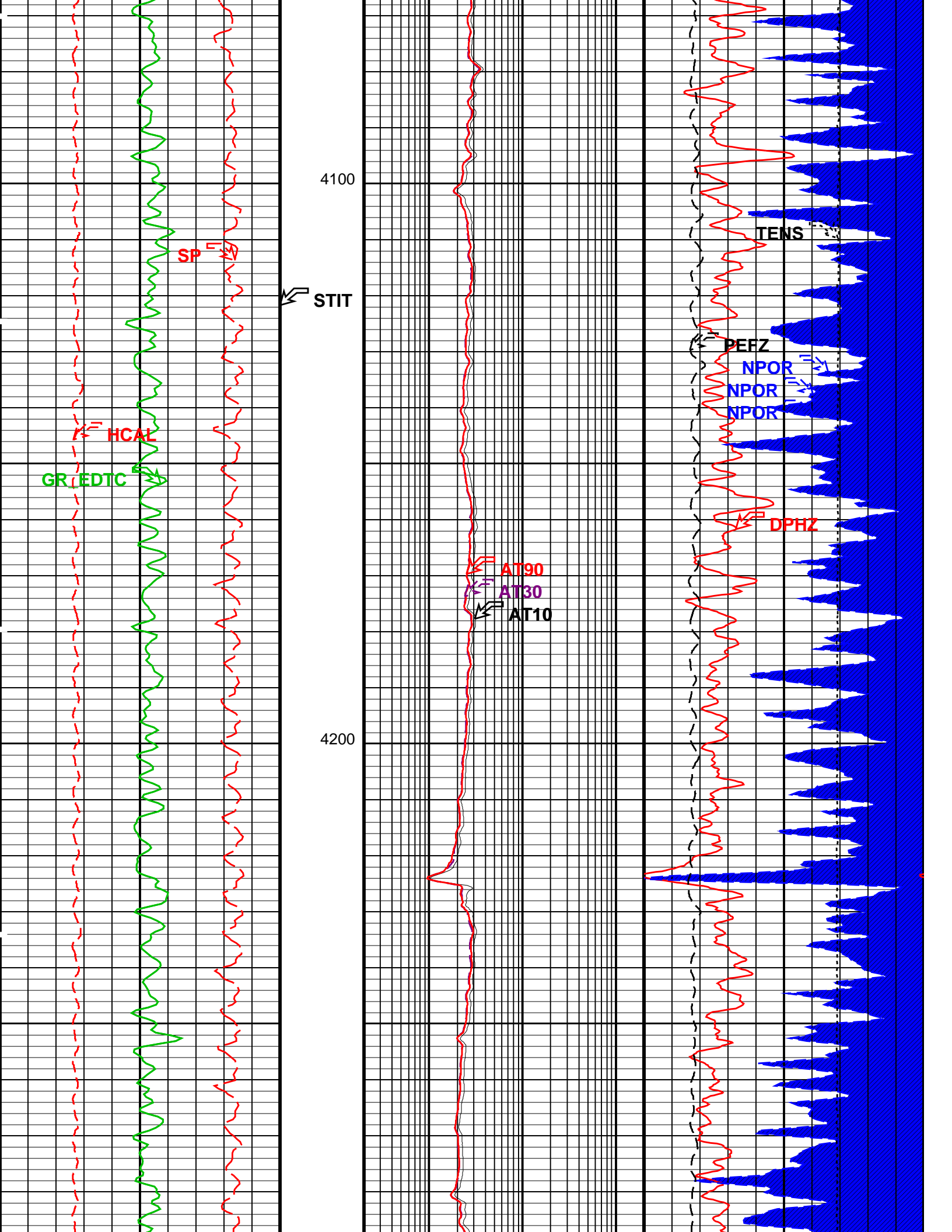




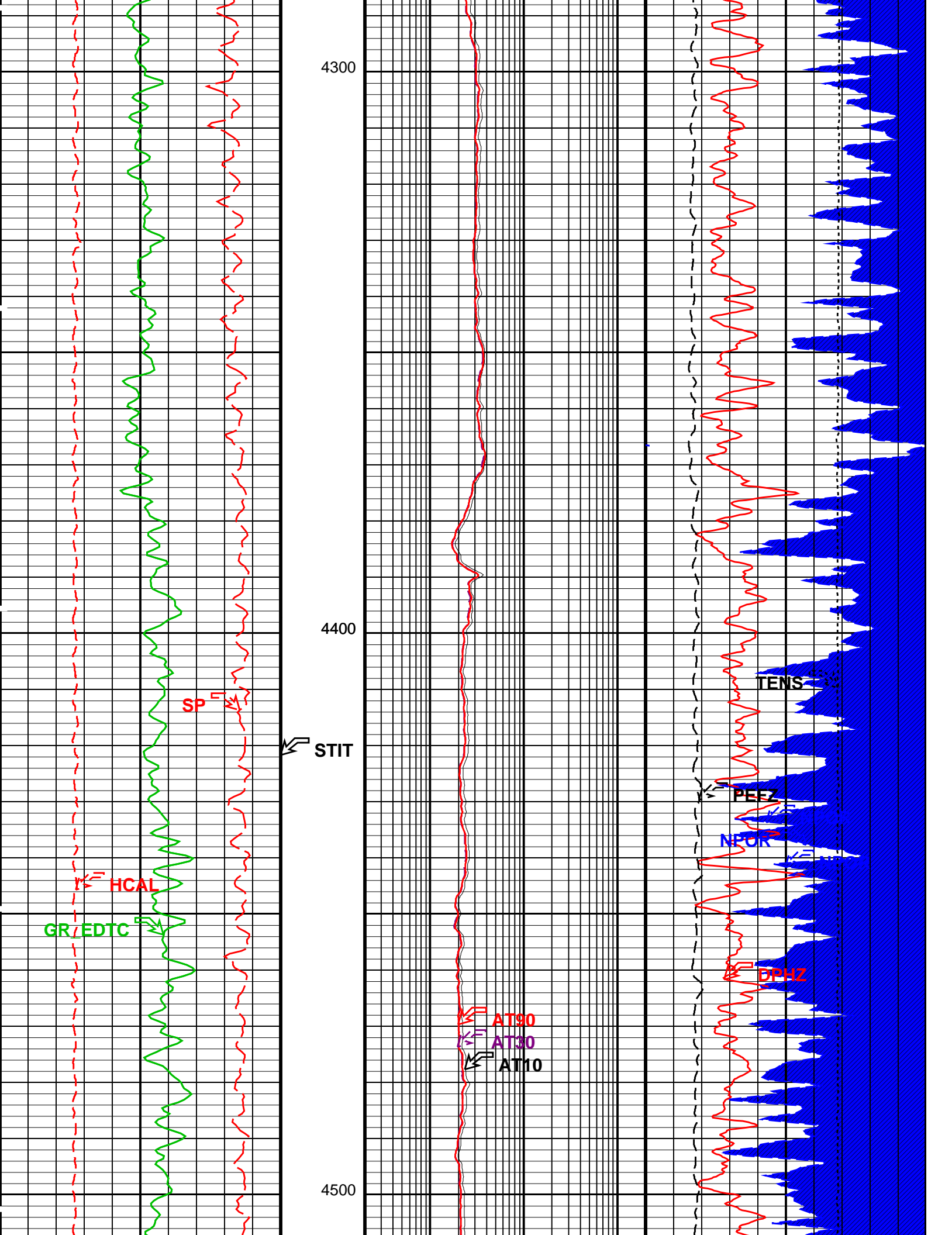


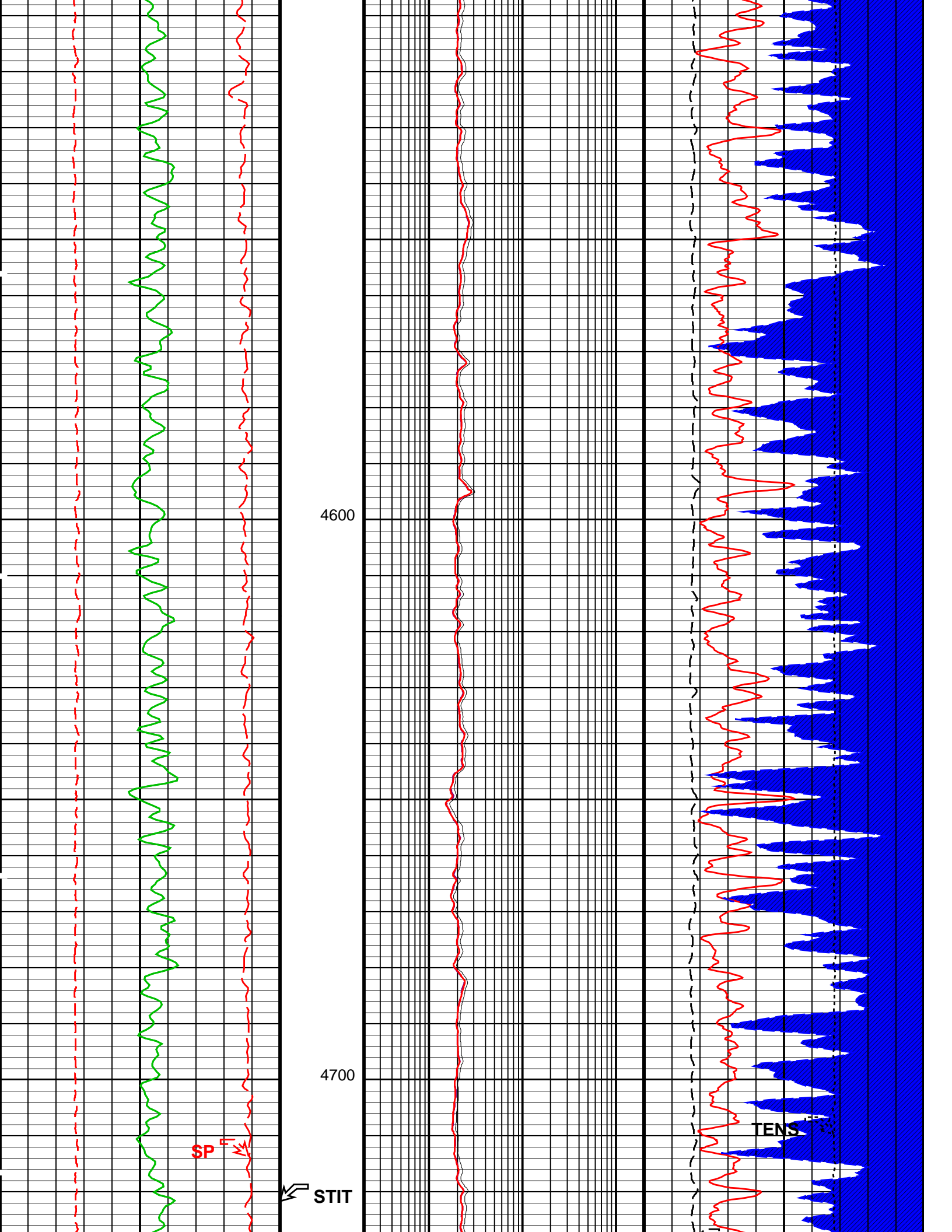


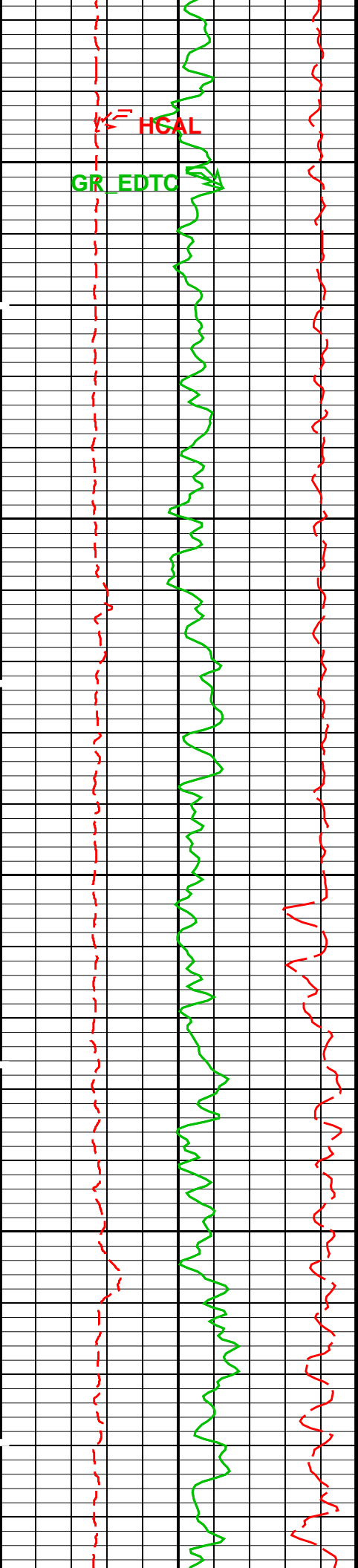






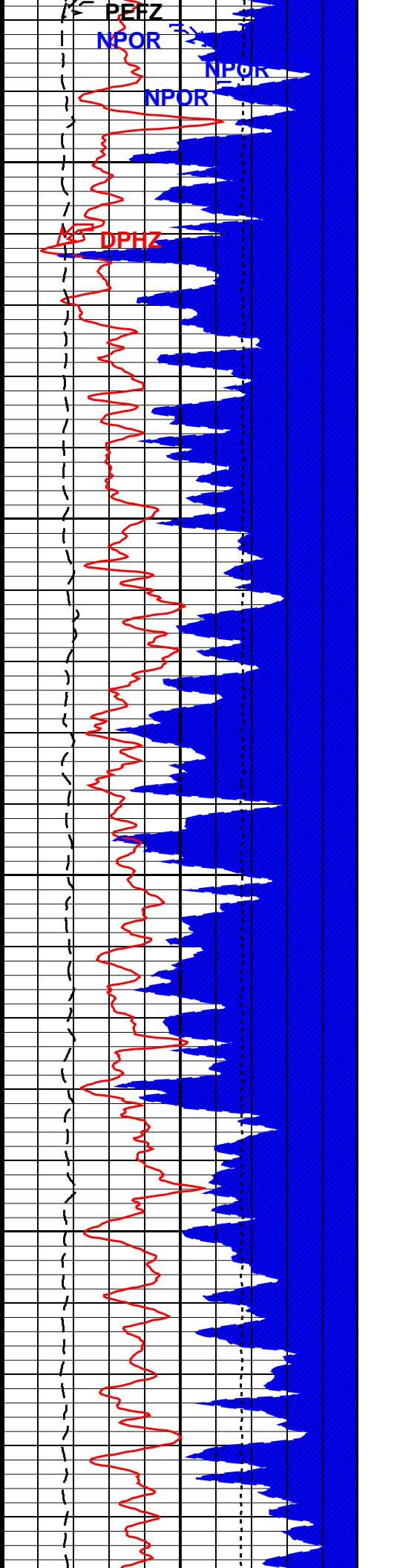
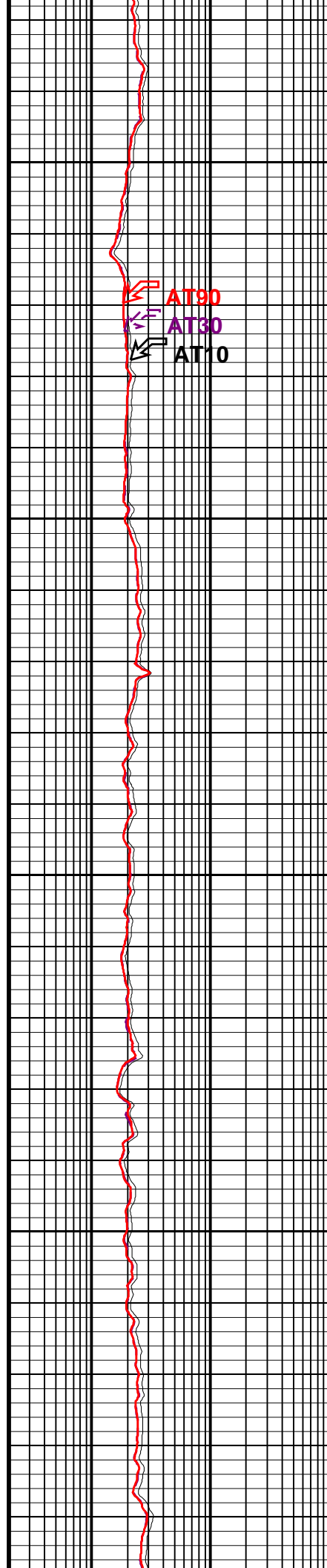


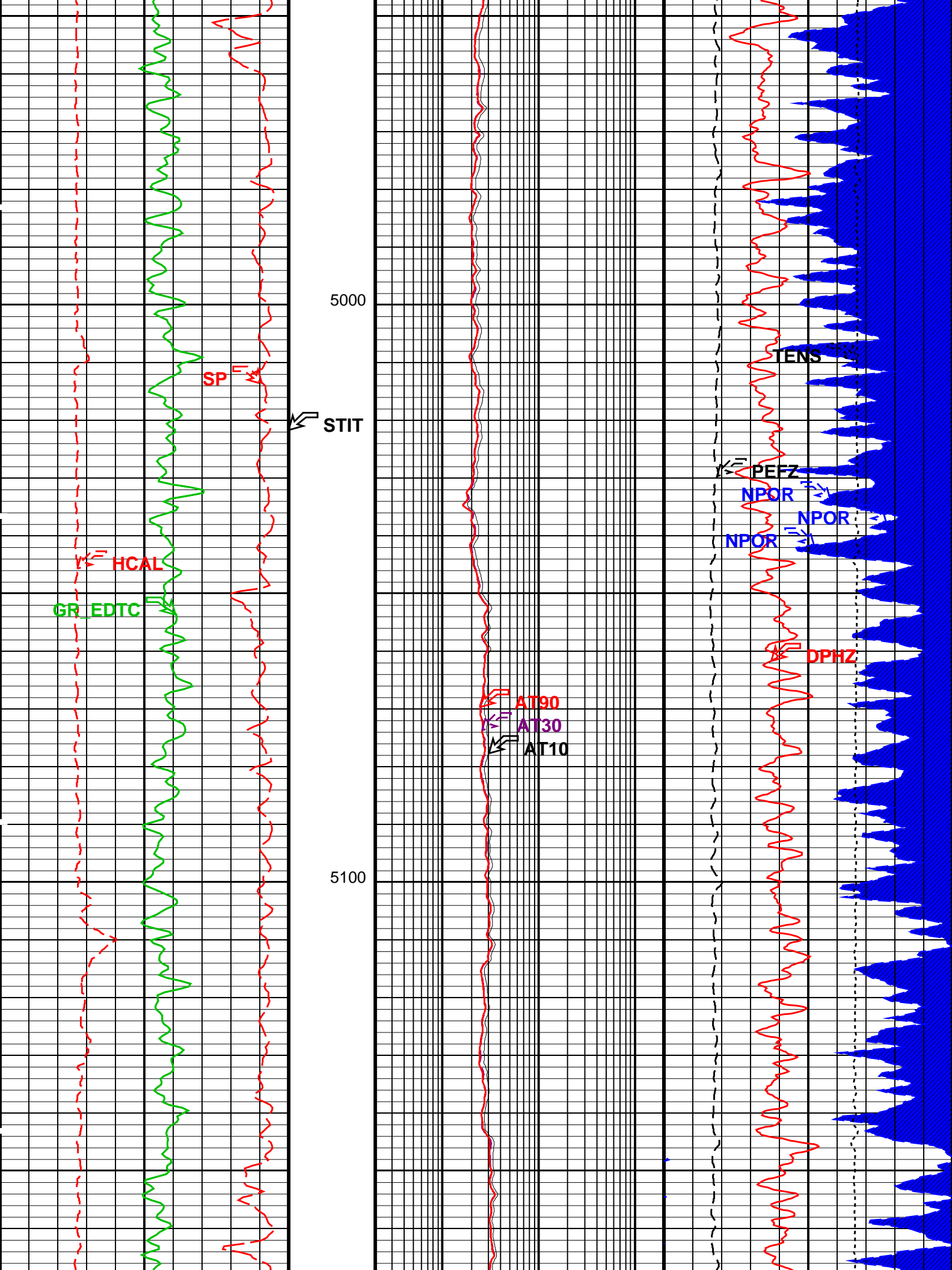


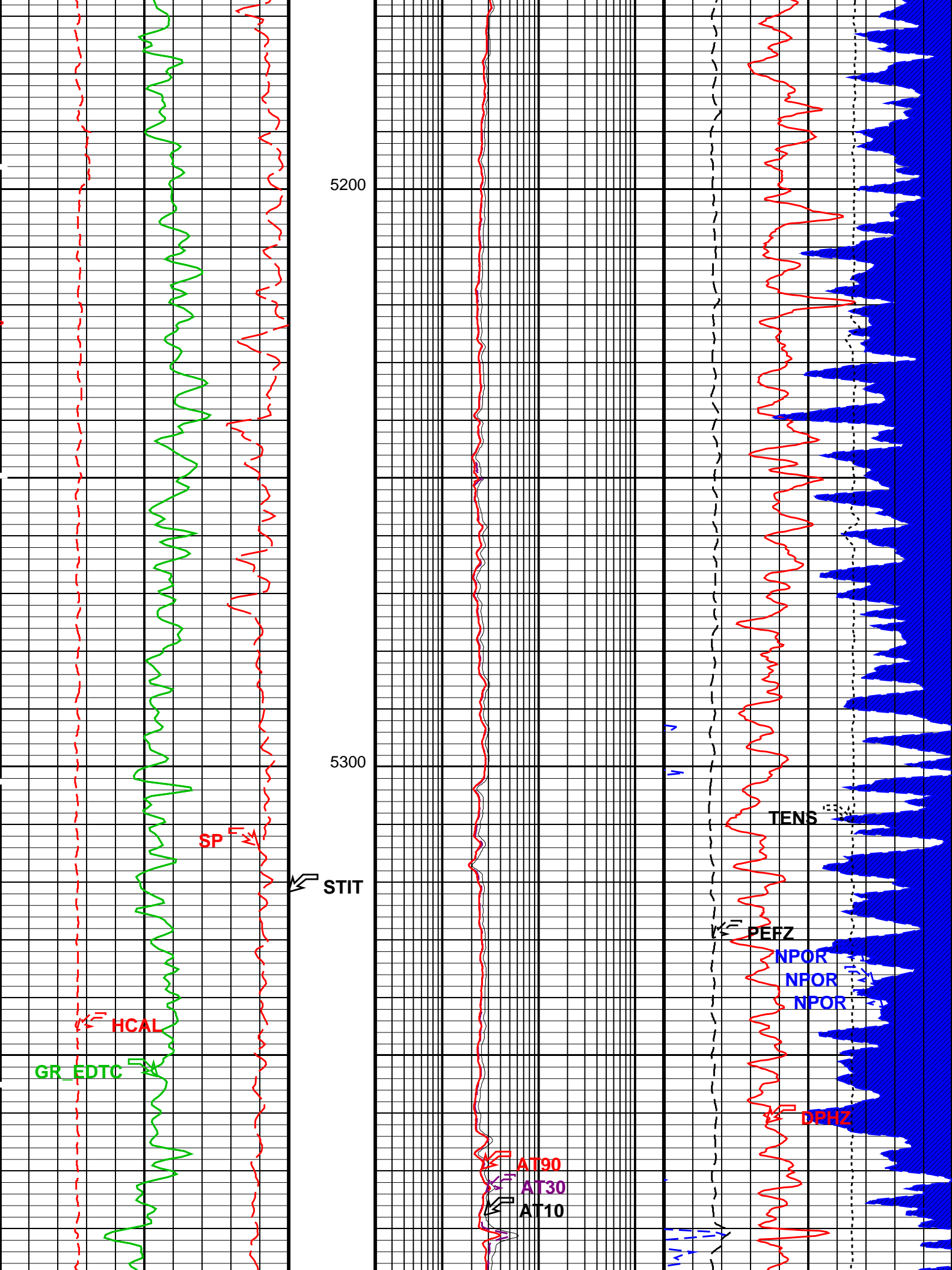


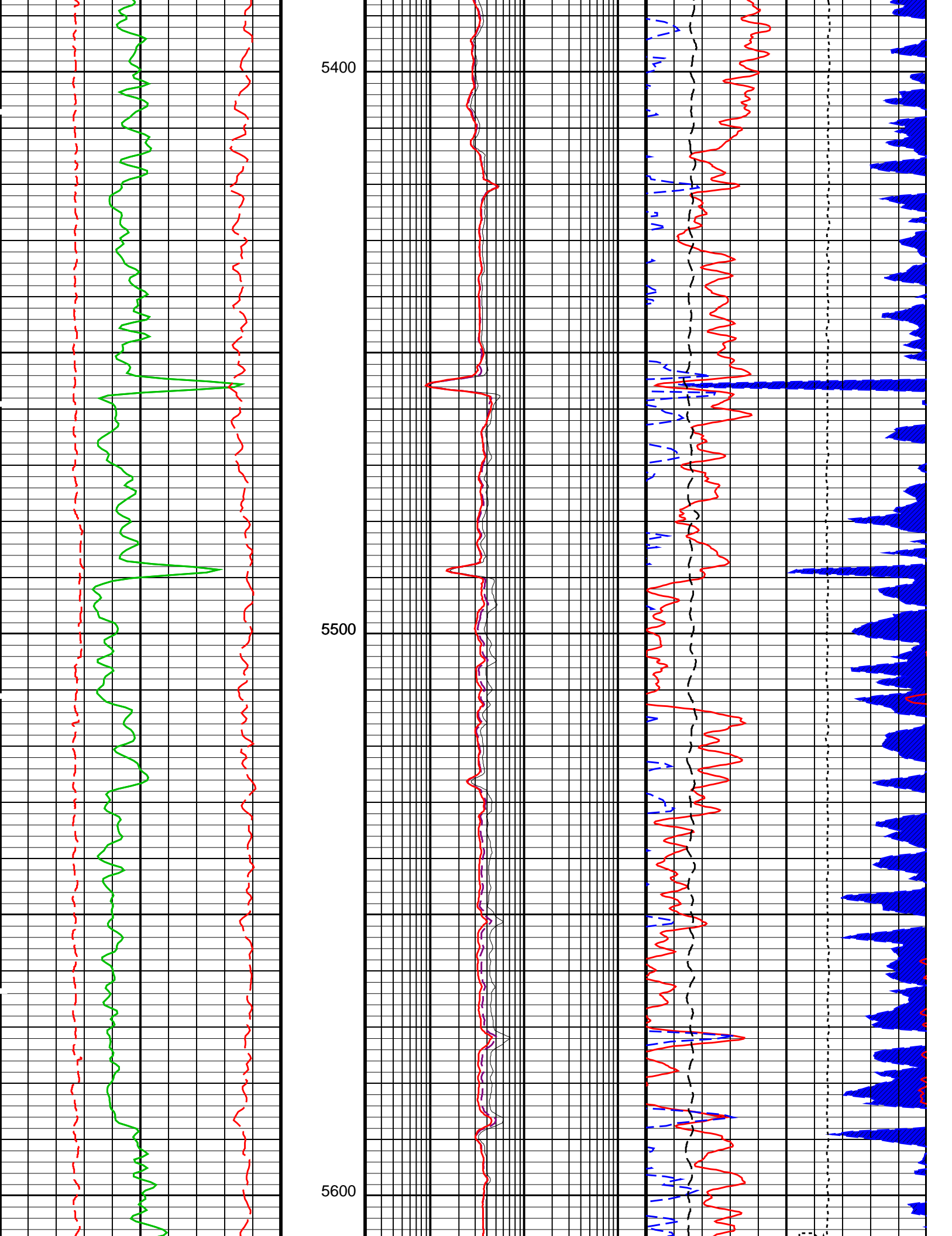
4800

4900

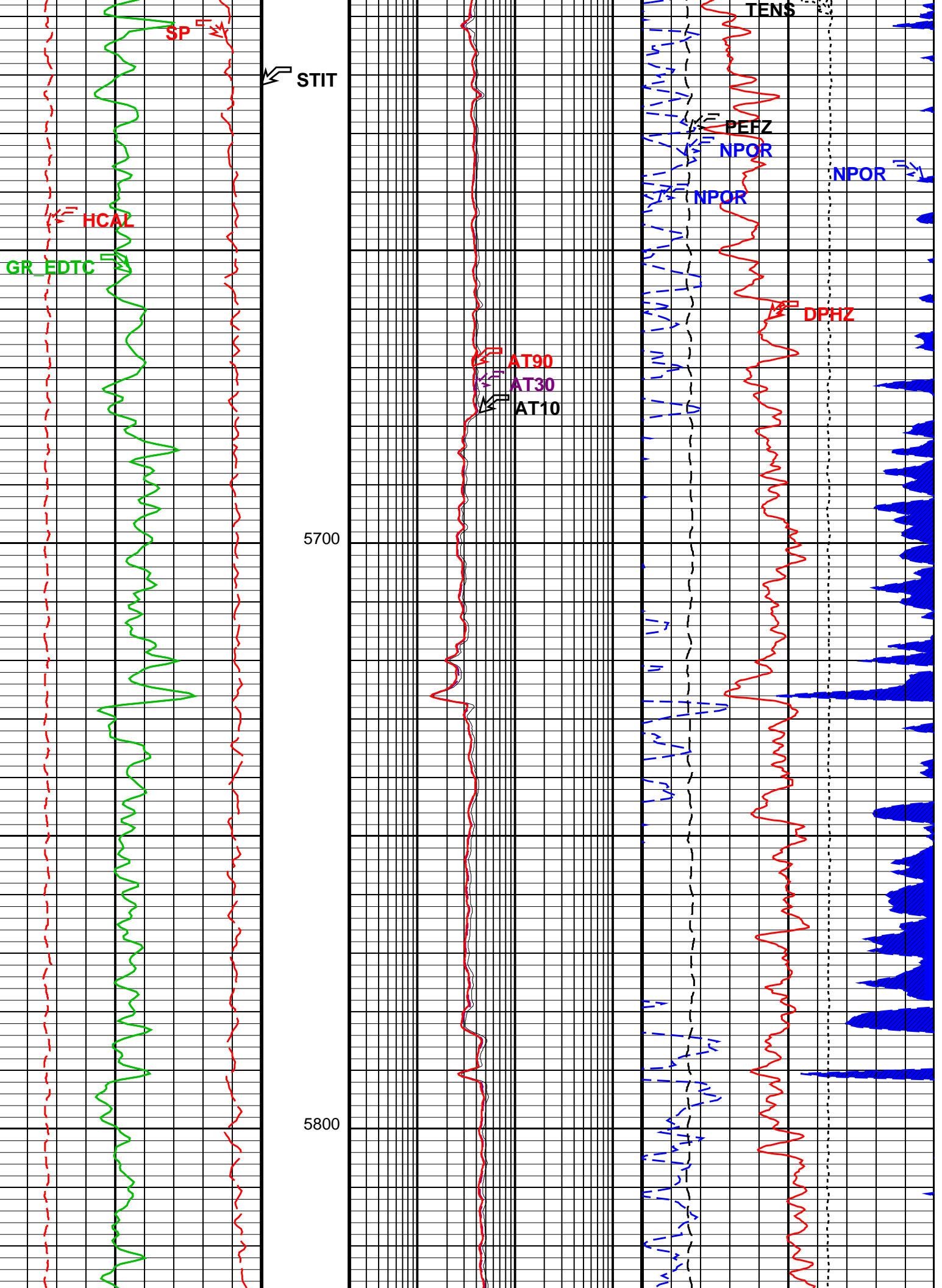


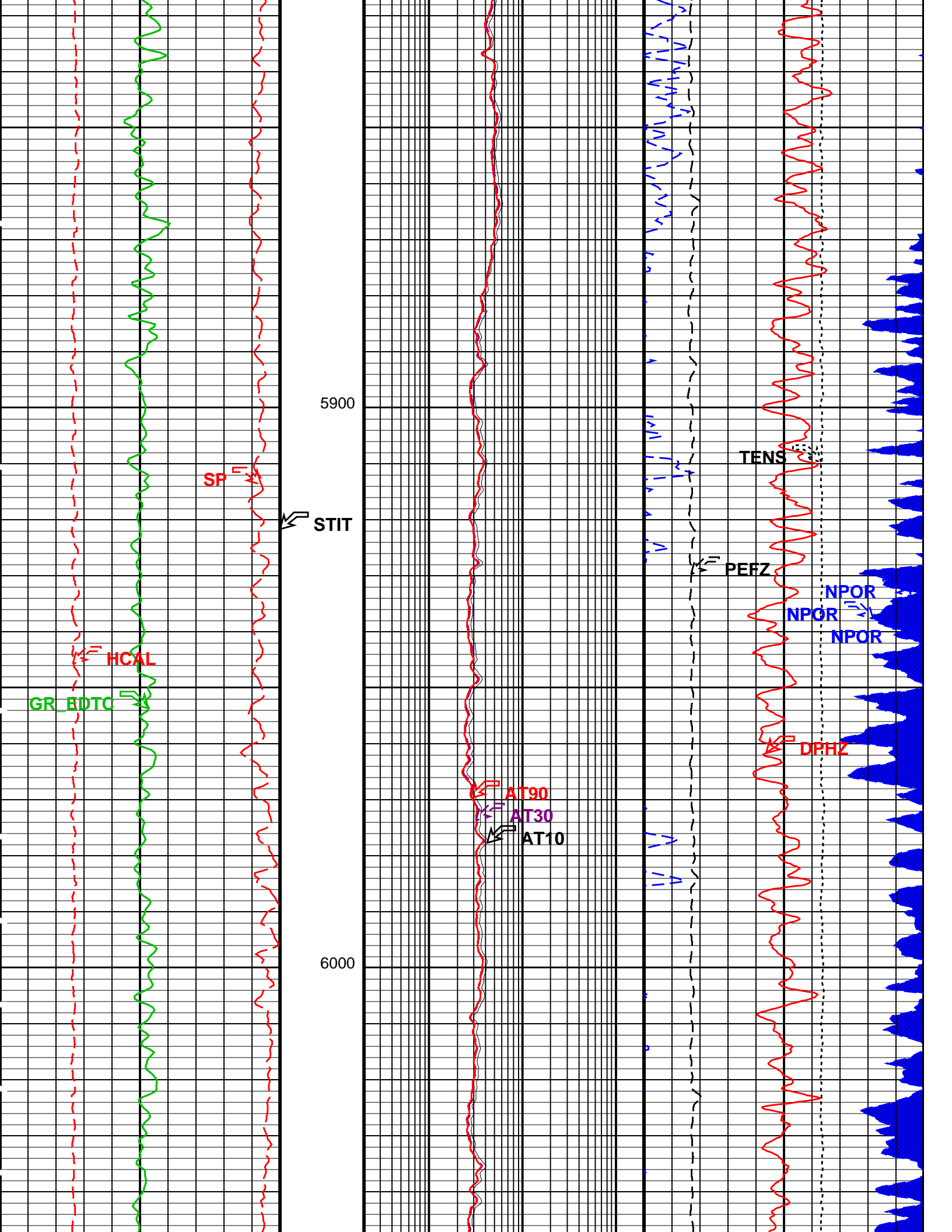




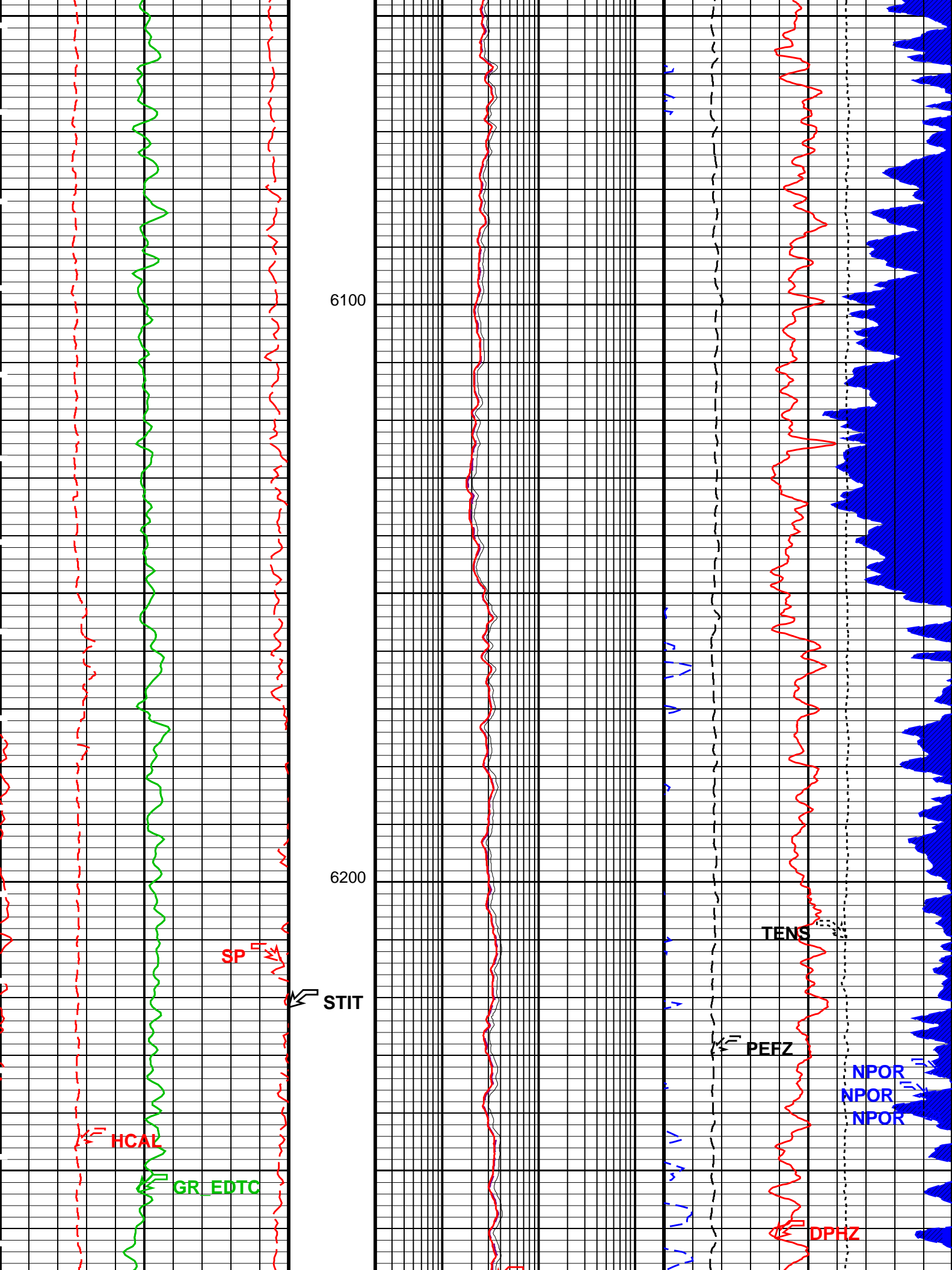


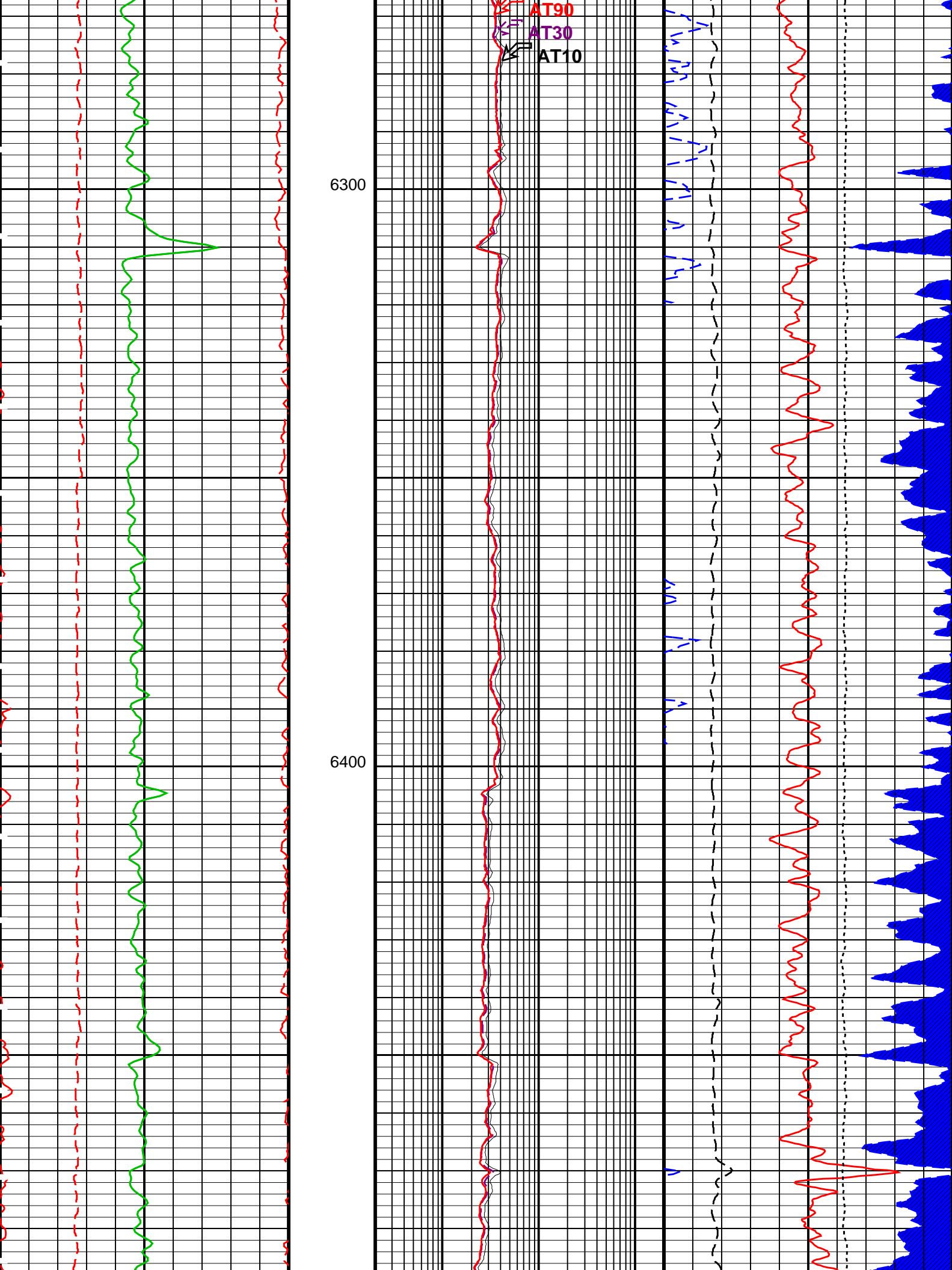


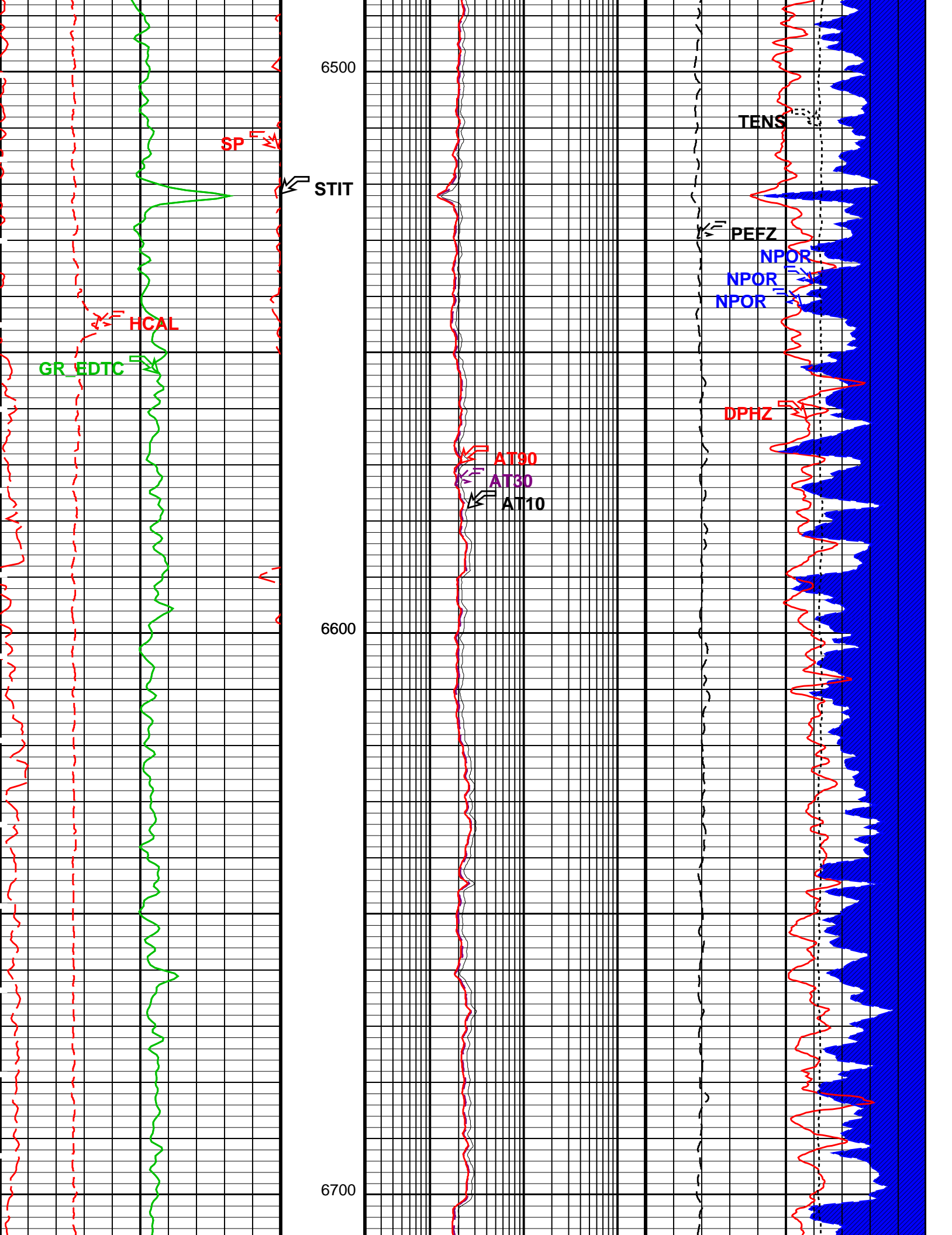


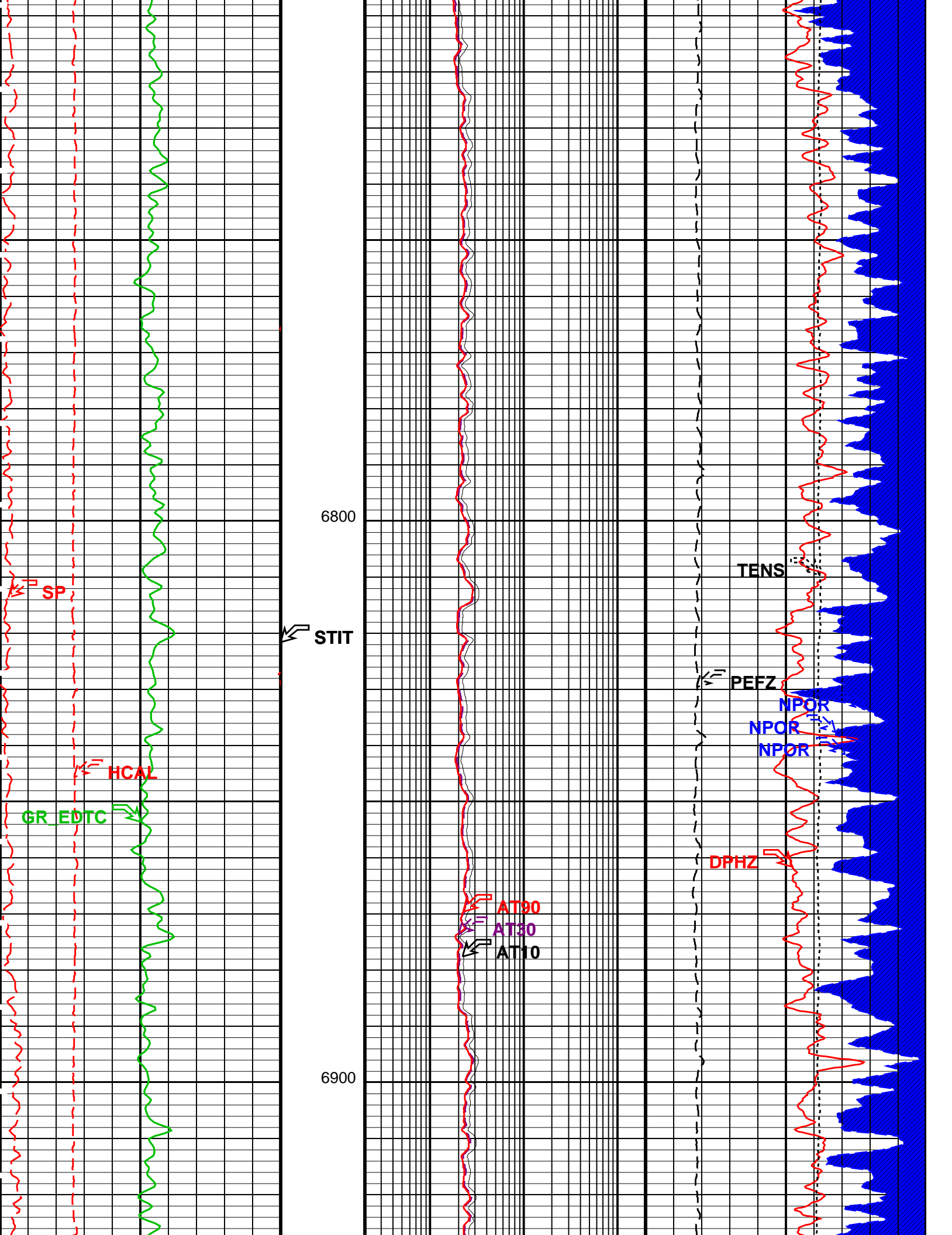


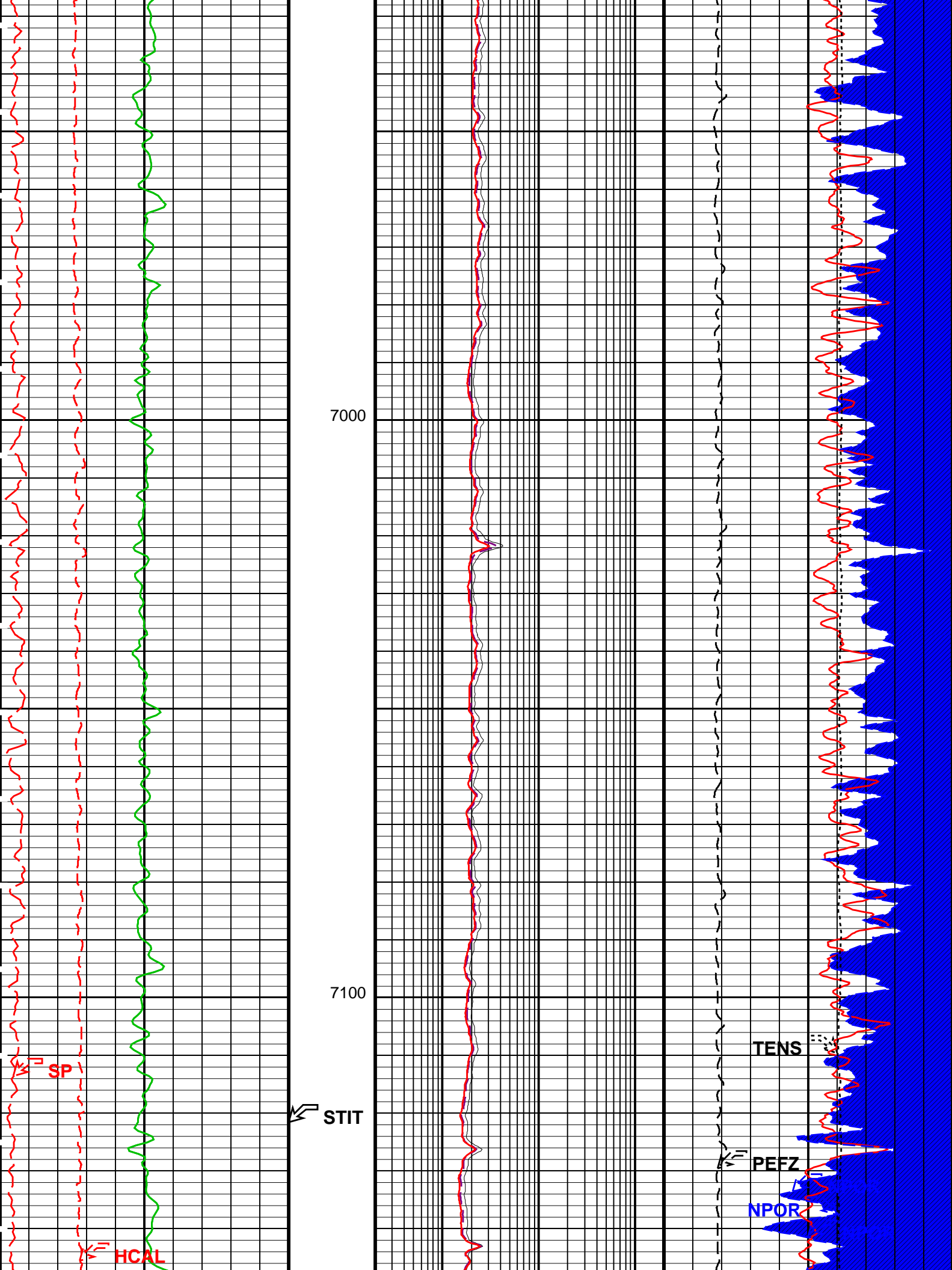


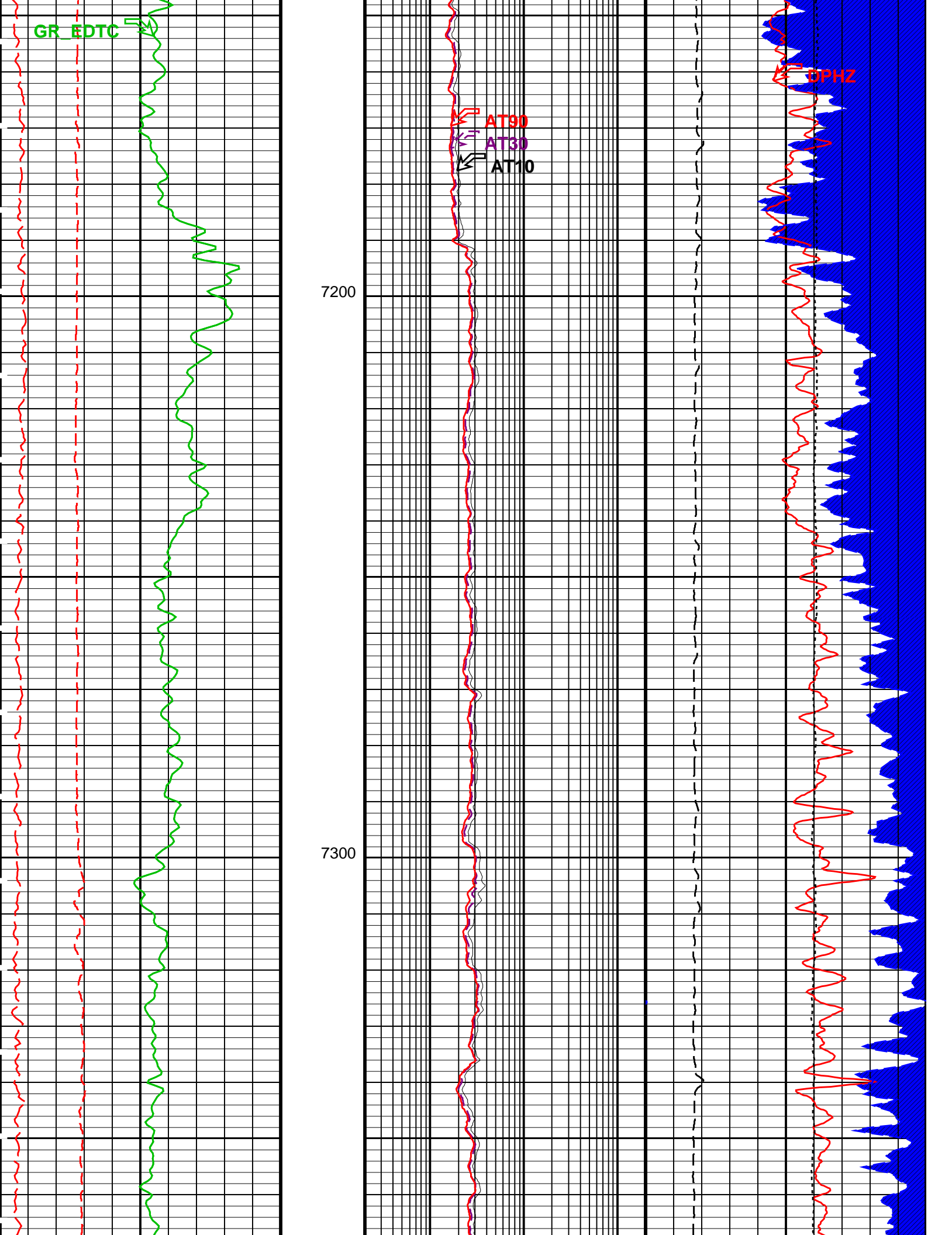


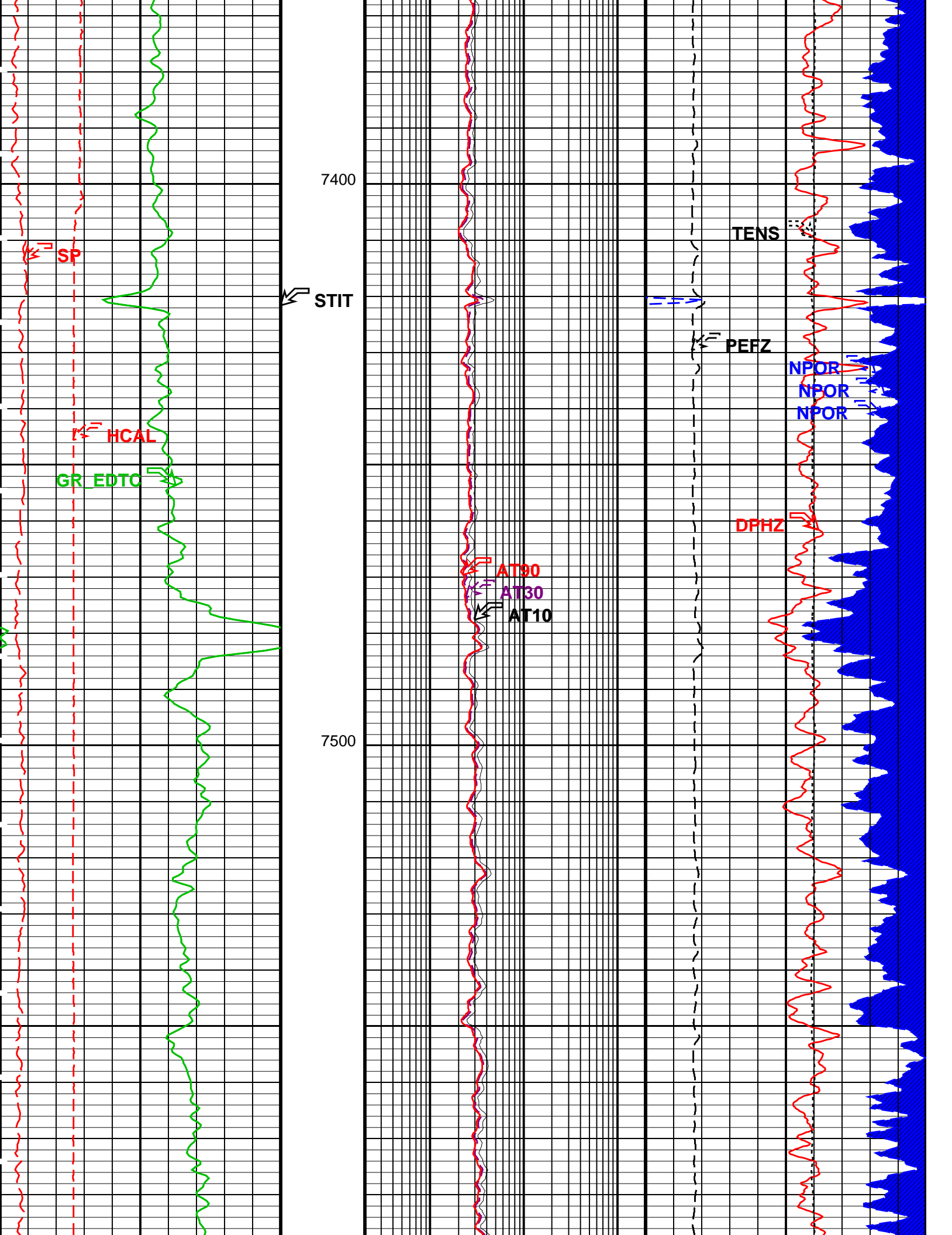




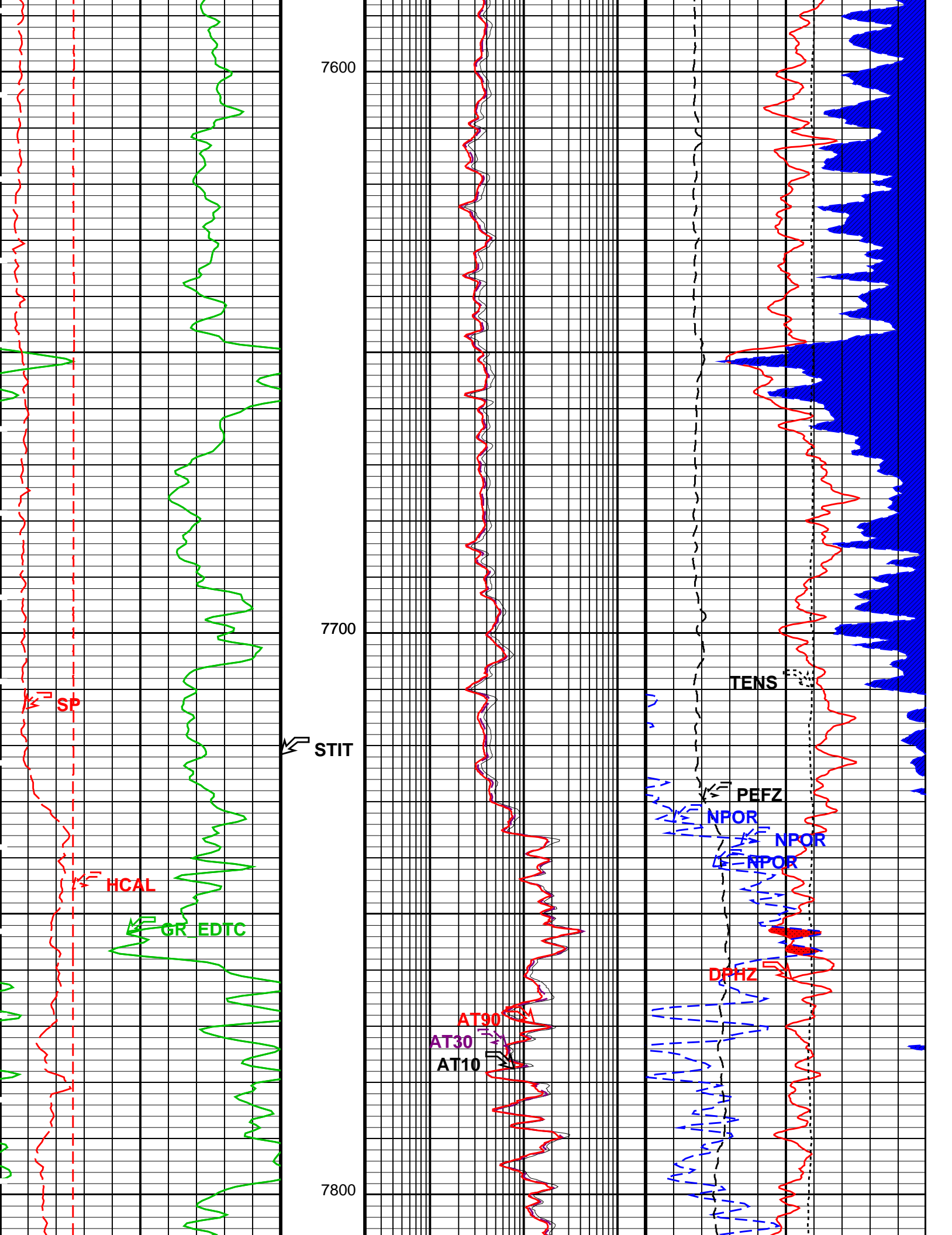




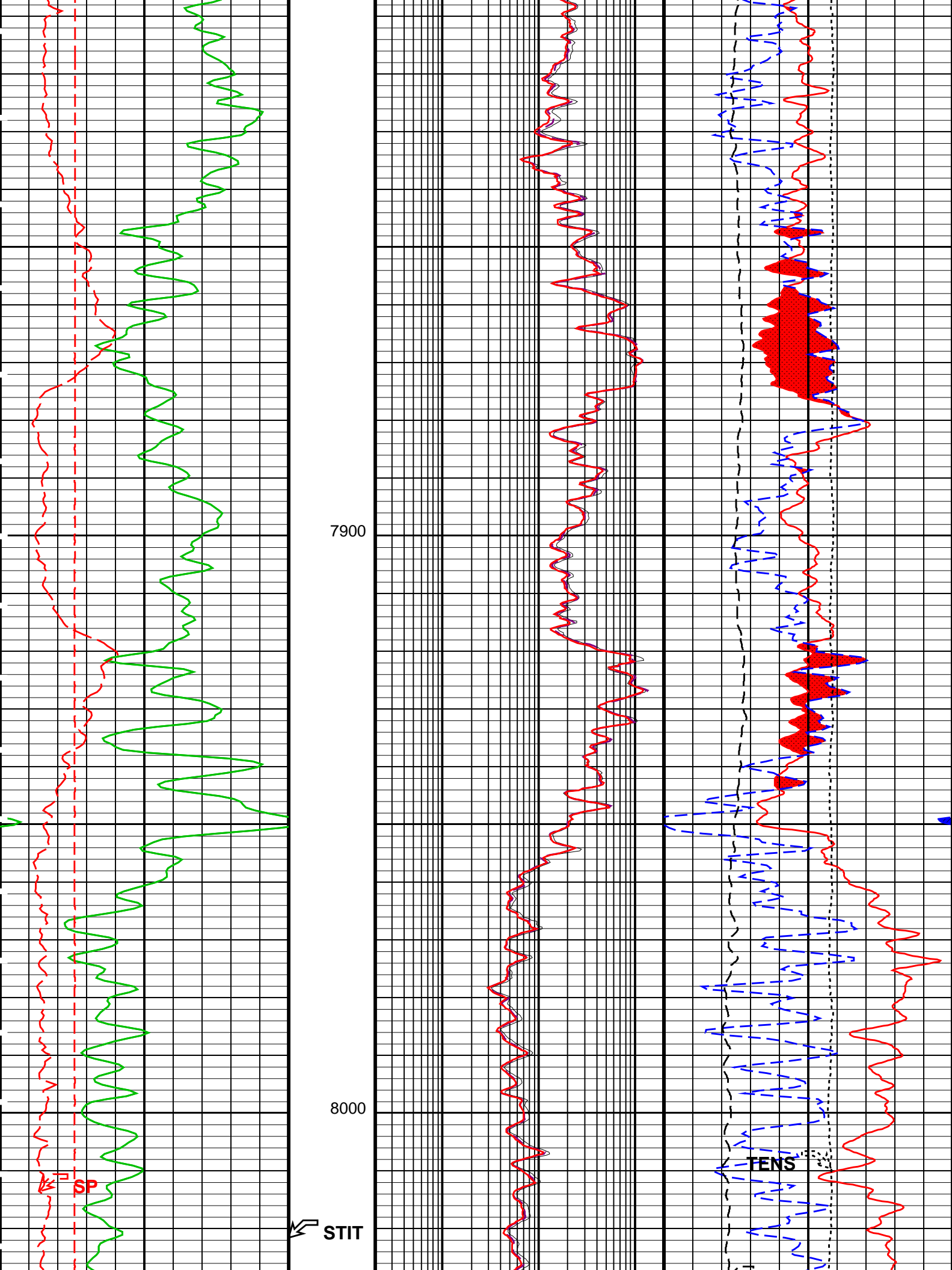


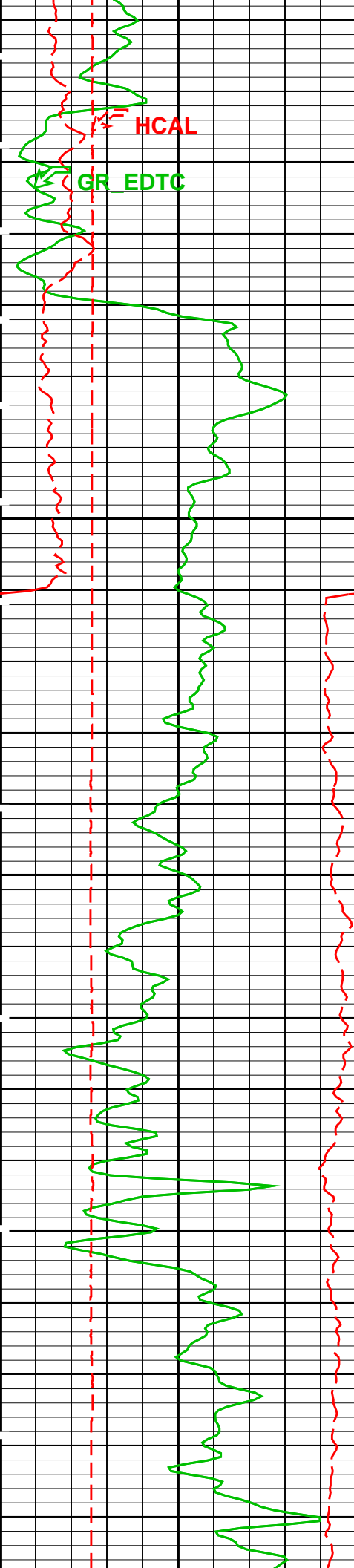






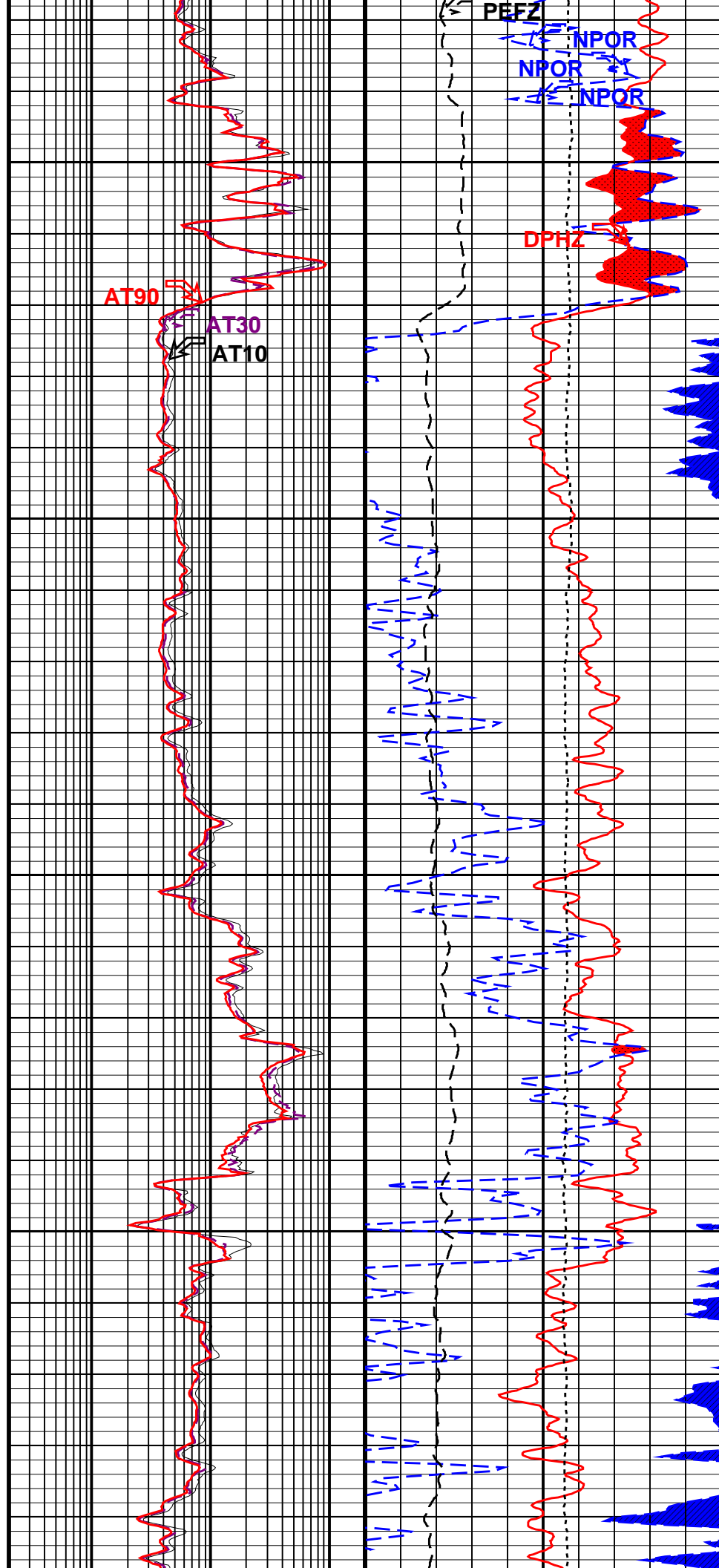


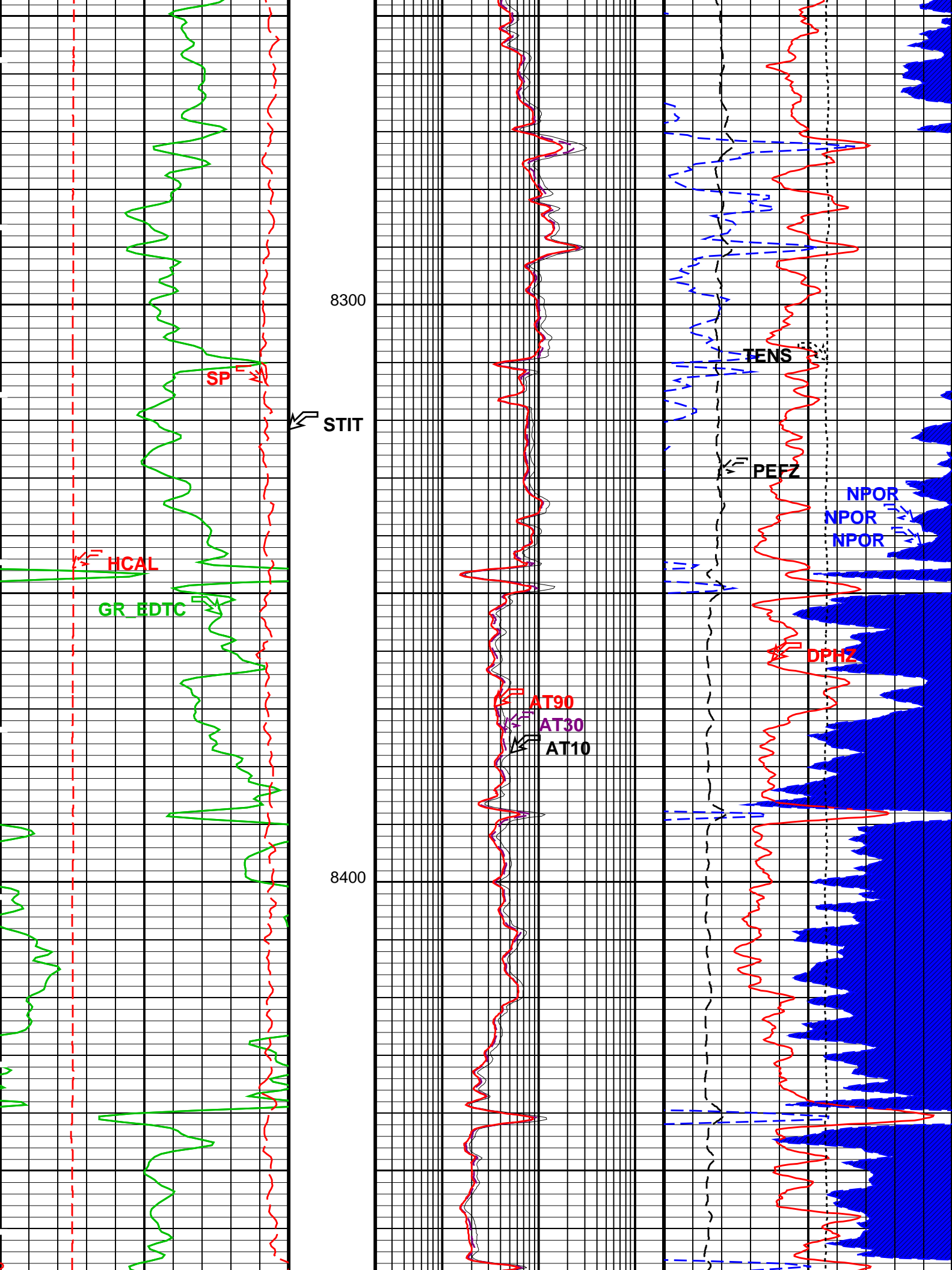


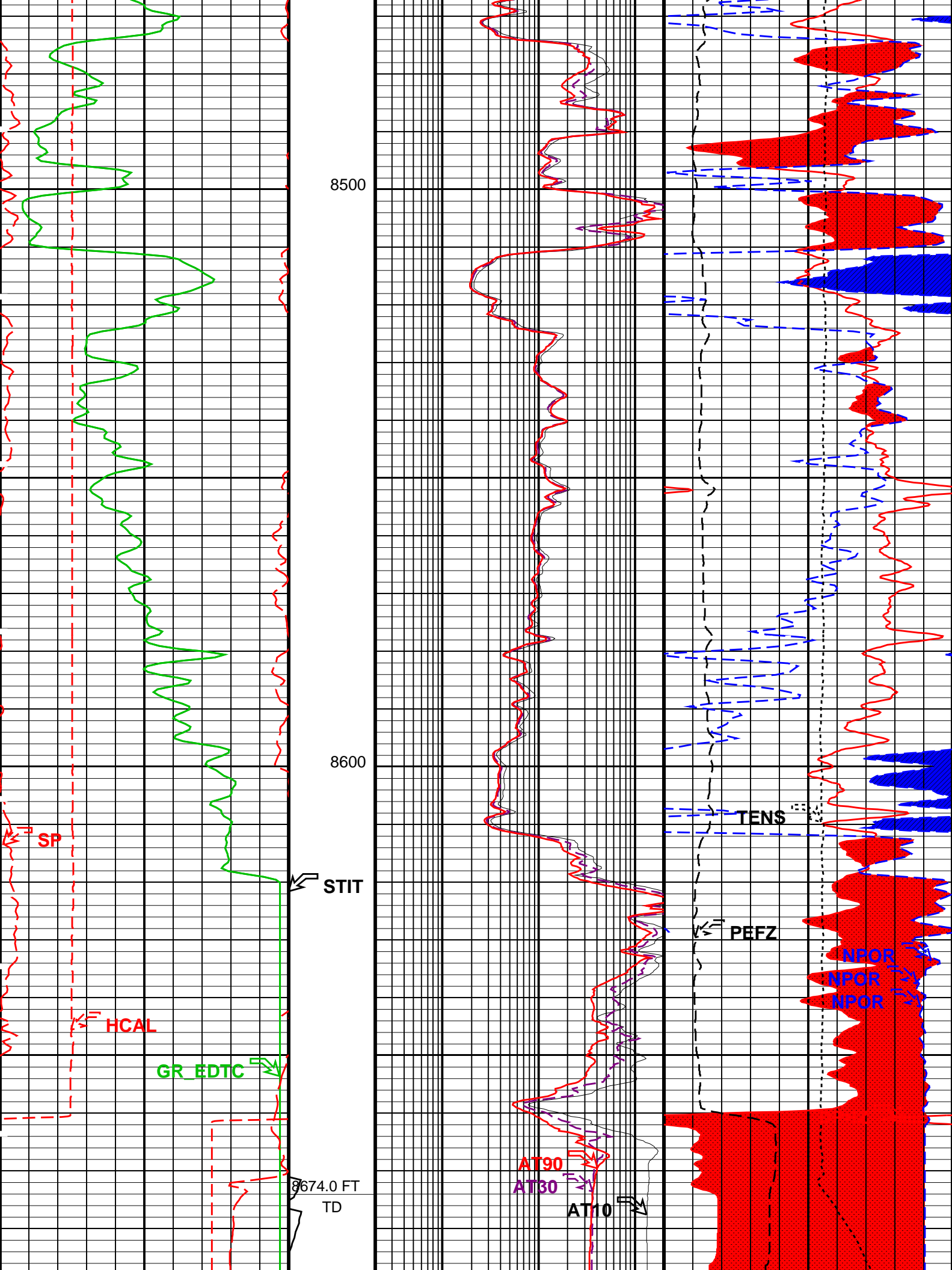


8100

8200







			Stuck Stretch (STIT)  0 (F) 50						
Gamma Ray (GR_EDTC) (GAPI)				AIT 10 Inch Investigation (AT10) (OHMM)			Std. Res. Density Porosity (DPHZ) (V/V)		
0		200		0.2		200	0.2		0
				AIT 30 Inch Investigation (AT30) (OHMM)			NPOR BACKUP From NPOR_2 to T3		
HILT Caliper (HCAL) (IN)				AIT 90 Inch Investigation (AT90) (OHMM)			GAS EFFECT From DPHZ to NPOR_1		
6		16		0.2		200			
SP (SP) (MV)							Tension (TENS) (LBF)		
-160		40					10000		0
							Alpha Processed Neutron Porosity (NPOR) (V/V)		
							0.2		0
							Std. Res. Formation Pe (PEFZ) (----		
							0		10

### PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value	
ZAIT-CA: 3-D Array Induction Tool - ZAIT-C			
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	No	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
ARFV	Array Induction Radial Profiling Code Version Number	701	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
SPNV	SP Next Value	0	MV
TRI1DV	3D 1D Code Version Number	0	
TRIBHM	3D Induction Borehole Correction Mode	21_ComputeOBMPlusDipNormal	
TRIBHV	Array Induction Borehole Correction Code Version Number	20110	
TRIRSV	3D Induction Response Set Version	00.10.24.00	
TRIRT	3D Rotation Selector	NorTH	
TRISTA	3D Tool Standoff	1	IN
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	OIL	
BHFL_TLD	HILT Nuclear Mud Base	OIL	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GDEV	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	



MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.71	G/C3
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	OIL	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
PERT: Preliminary Evaluation - Real Time			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
STI: Stuck Tool Indicator			
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	8656.00	FT
TDL	Total Depth - Logger	8674.00	FT
RWA: Apparent Water Resistivity			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
System and Miscellaneous			
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	40.00	LB/F
DFD	Drilling Fluid Density	9.00	LB/G
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	300.00	FT
PP	Playback Processing	OFF	
TD	Total Depth	8674	FT

OP System Version: 19C0-187

ZAIT-CA	19C0-187	HILTB-FTB	19C0-187
GPIT-C	19C0-187	ECS-HP	19C0-187
ECC-B	19C0-187	ADT-C	SRPC-5035-ADT-C
EDTC-B	19C0-187		

Input DLIS Files

DEFAULT      Splice\_AIT\_TLD\_MCFL\_051CUP      FN:1      PRODUCER      17-Jan-2012 02:09      8691.0 FT      182.0 FT

Output DLIS Files

DEFAULT      AIT\_TLD\_MCFL\_CNL\_052PUP      FN:50      PRODUCER      17-Jan-2012 02:16



Repeat Analysis

MAXIS Field Log

Company: Conoco Phillips Company      Well: Tebo 32-2

Input DLIS Files

DEFAULT      Splice\_AIT\_TLD\_MCFL\_051CUP      FN:1      PRODUCER      17-Jan-2012 02:09      8691.0 FT      182.0 FT  
DEFAULT      AIT\_TLD\_MCFL\_CNL\_047PUP      FN:46      PRODUCER      17-Jan-2012 01:59      8691.0 FT      8336.0 FT

Output DLIS Files

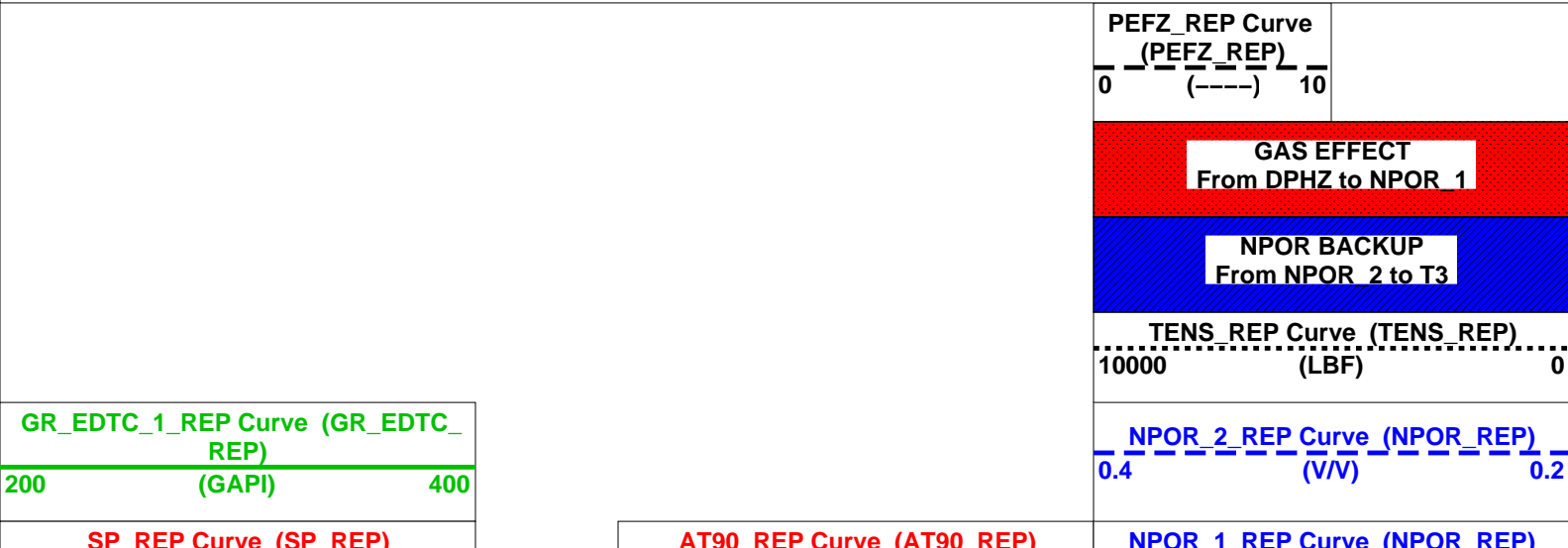
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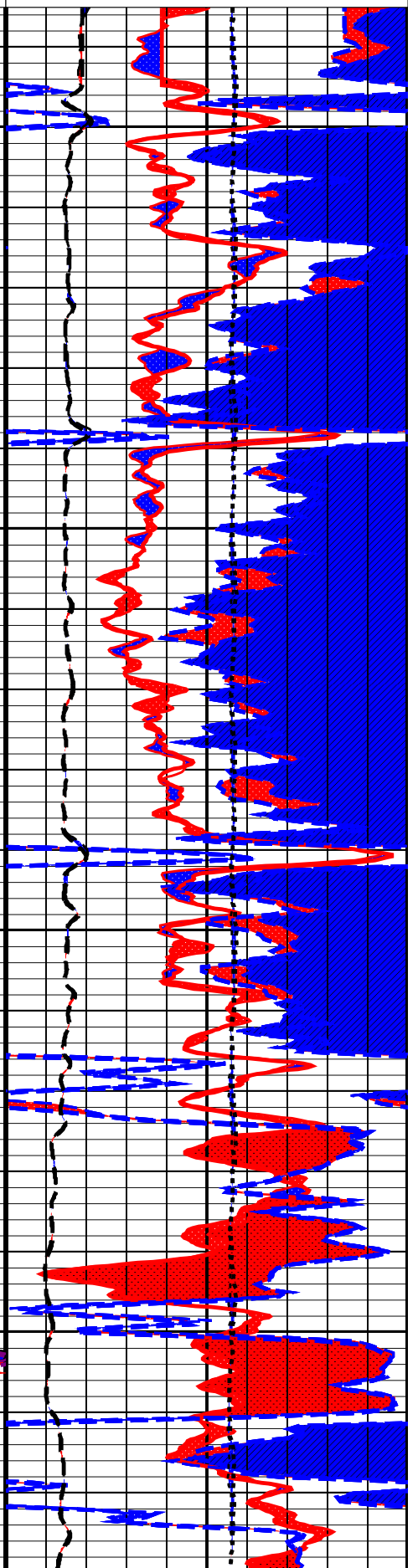
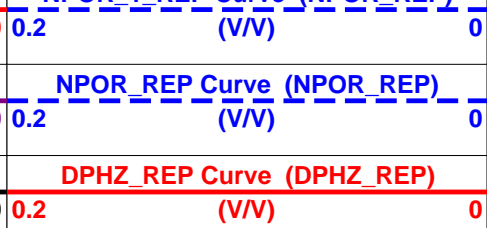
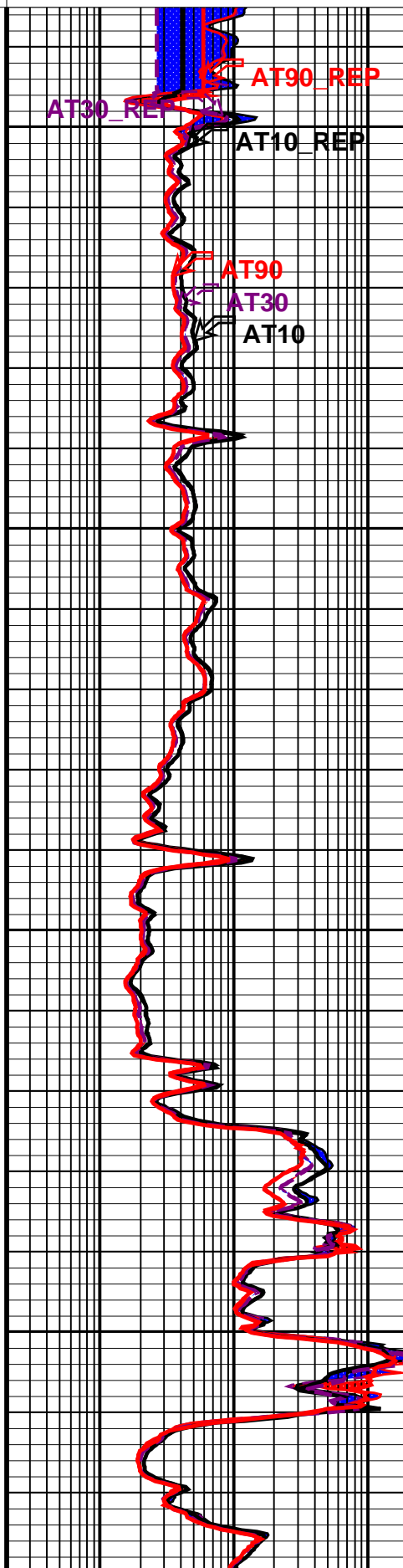
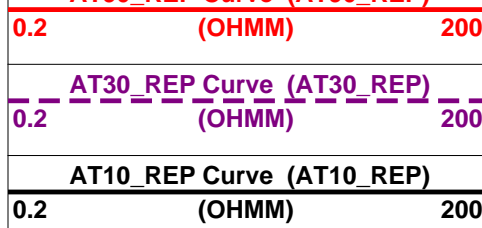
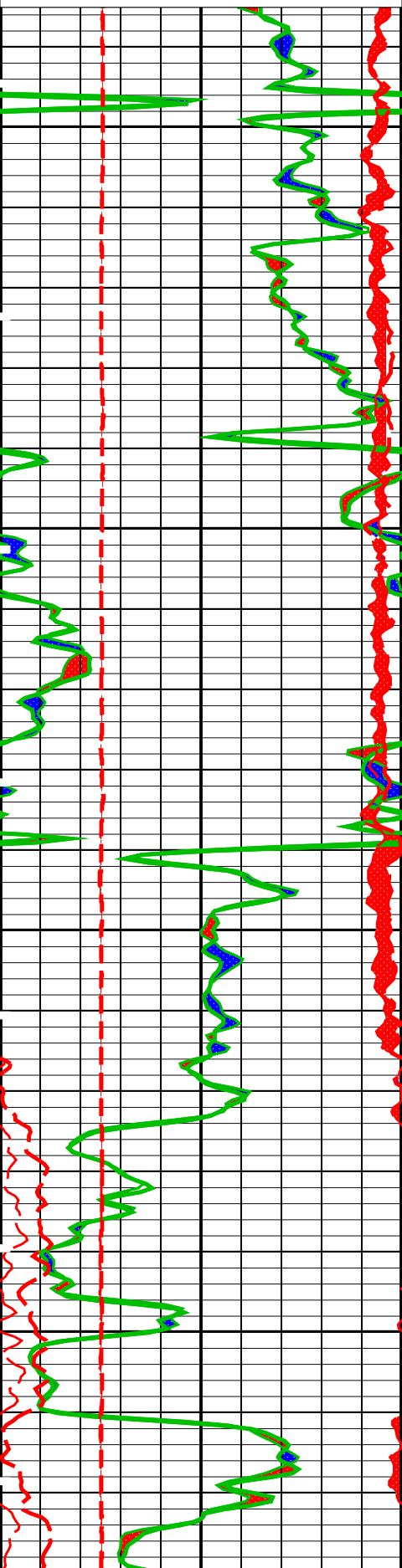
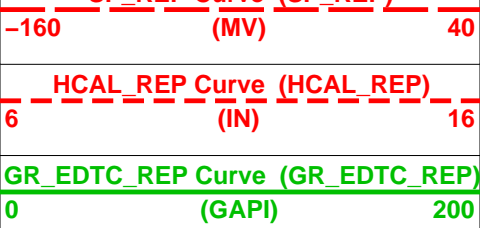
OP System Version: 19C0-187

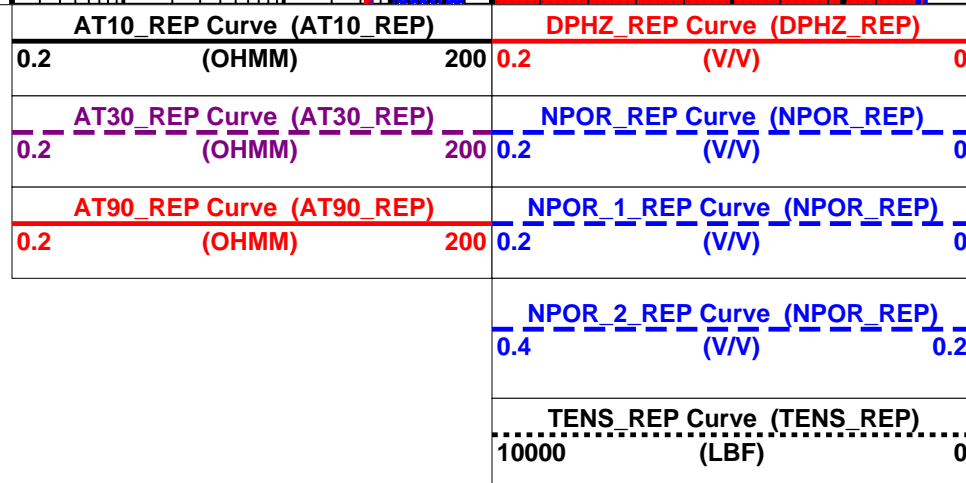
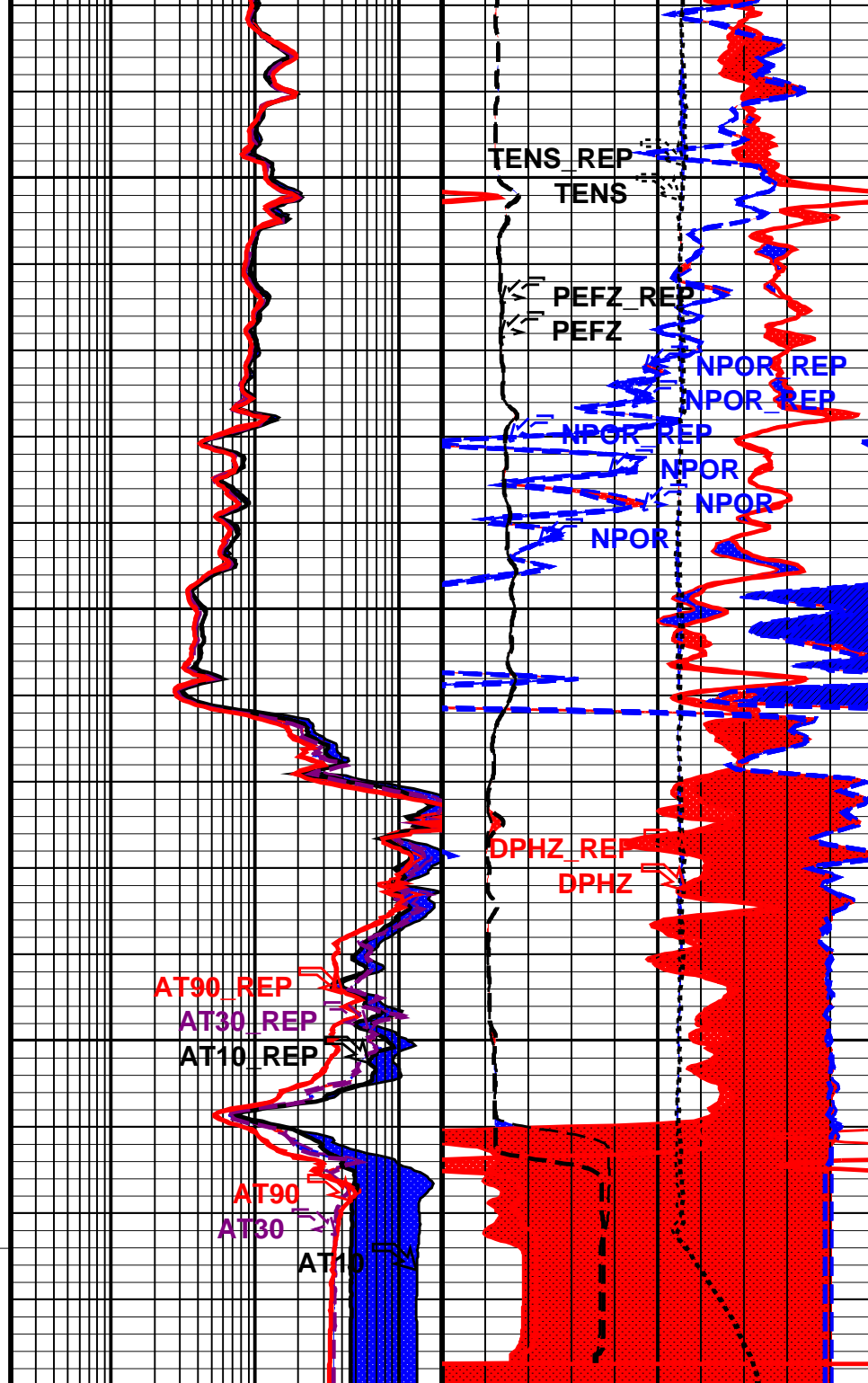
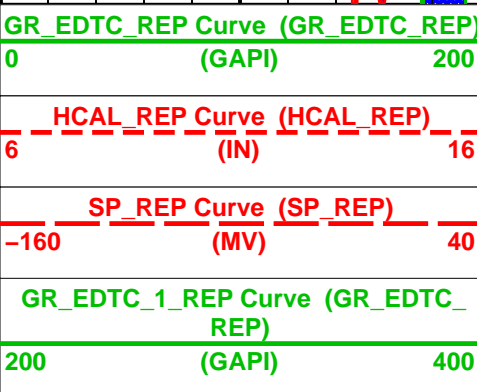
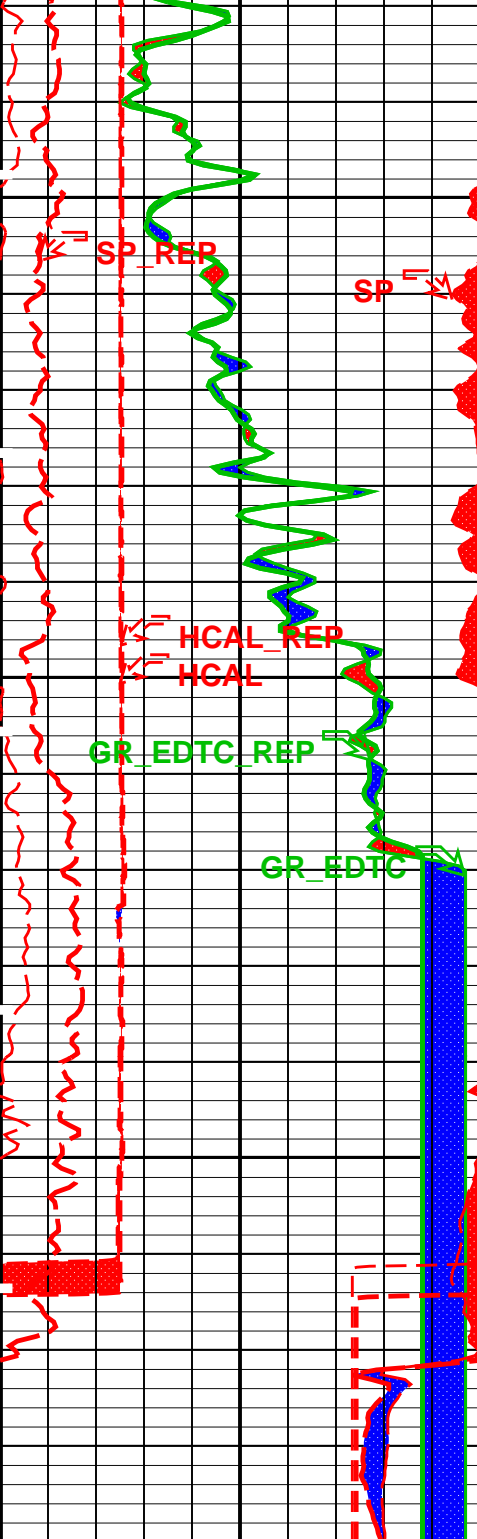
ZAIT-CA	19C0-187	HILTB-FTB	19C0-187
GPIT-C	19C0-187	ECS-HP	19C0-187
ECC-B	19C0-187	ADT-C	SRPC-5035-ADT-C
EDTC-B	19C0-187		

PIP SUMMARY

Time Mark Every 60 S







NPOR BACKUP  
From NPOR\_2 to T3

PEFZ\_REP Curve  
(PEFZ\_REP)  
0 (----) 10

## PIP SUMMARY

Time Mark Every 60 S

## Parameters

DLIS Name	Description	Value	
ZAIT-CA: 3-D Array Induction Tool - ZAIT-C			
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	No	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
ARFV	Array Induction Radial Profiling Code Version Number	701	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
SPNV	SP Next Value	0	MV
TRI1DV	3D 1D Code Version Number	0	
TRIBHM	3D Induction Borehole Correction Mode	21_ComputeOBMPlusDipNormal	
TRIBHV	Array Induction Borehole Correction Code Version Number	20110	
TRIRSV	3D Induction Response Set Version	00.10.24.00	
TRIRT	3D Rotation Selector	NorTH	
TRISTA	3D Tool Standoff	1	IN
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	OIL	
BHFL_TLD	HILT Nuclear Mud Base	OIL	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.71	G/C3
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	OIL	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
BSCO	Borehole Salinity Correction Option	NO	



CCCO	Casing & Cement Thickness Correction Option	NO	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
PERT: Preliminary Evaluation - Real Time			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	222	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
STI: Stuck Tool Indicator			
TDL	Total Depth - Logger	8674.00	FT
RWA: Apparent Water Resistivity			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
System and Miscellaneous			
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	40.00	LB/F
DFD	Drilling Fluid Density	9.00	LB/G
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	300.00	FT
PP	Playback Processing	OFF	
TD	Total Depth	8674	FT

Format: COMBO\_REP      Vertical Scale: 5" per 100'      Graphics File Created: 17-Jan-2012 02:16

## OP System Version: 19C0-187

ZAIT-CA	19C0-187	HILTB-FTB	19C0-187
GPIT-C	19C0-187	ECS-HP	19C0-187
ECC-B	19C0-187	ADT-C	SRPC-5035-ADT-C
EDTC-B	19C0-187		

## Input DLIS Files

DEFAULT	Splice_AIT_TLD_MCFL_051CUP	FN:1	PRODUCER	17-Jan-2012 02:09	8691.0 FT	182.0 FT
DEFAULT	AIT_TLD_MCFL_CNL_047PUP	FN:46	PRODUCER	17-Jan-2012 01:59	8691.0 FT	8336.0 FT

## Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_052PUP	FN:50	PRODUCER	17-Jan-2012 02:16
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Company: **Conoco Phillips Company**

**Schlumberger**

Well: **Tebo 32-2**

Field: **Wildcat**

County: **Arapahoe**

State: **Colorado**

Platform Express  
Triple Combo