

Schlumberger

Company: **Vecta Oil & Gas Ltd**

Well: **Little Bear 44-28**

Field: **Wildcat**

County: **Cheyenne**

State: **Colorado**

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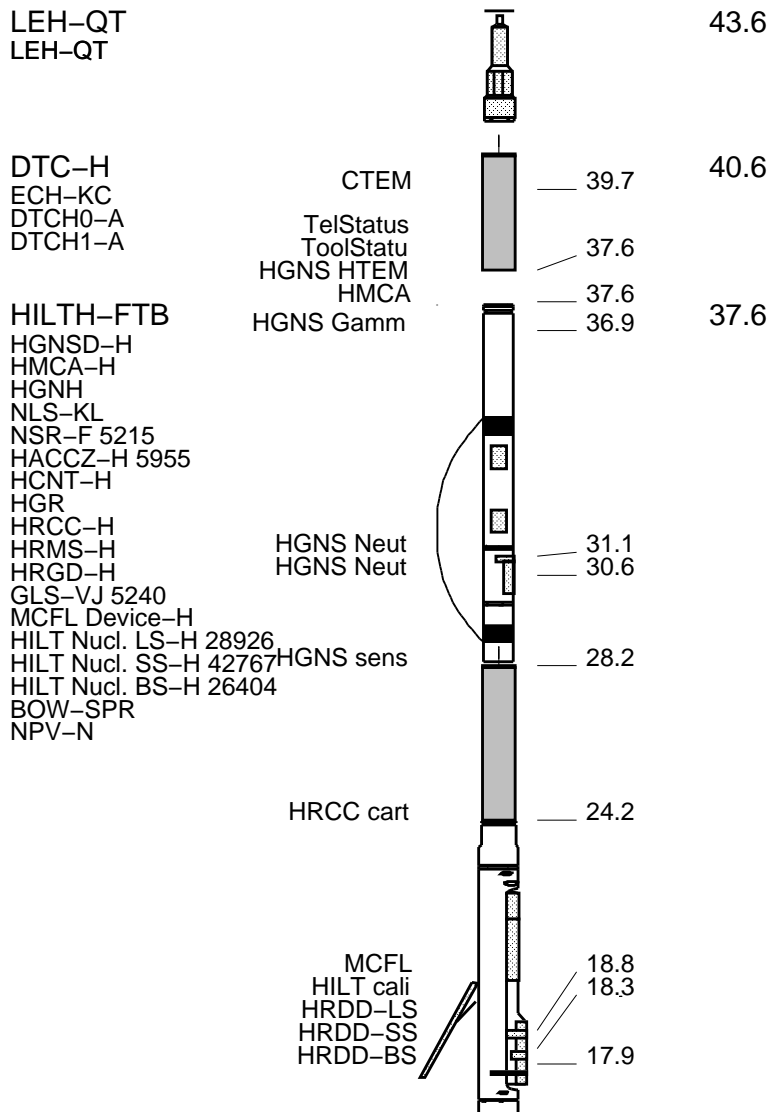
County: **Cheyenne**

State: **Colorado**

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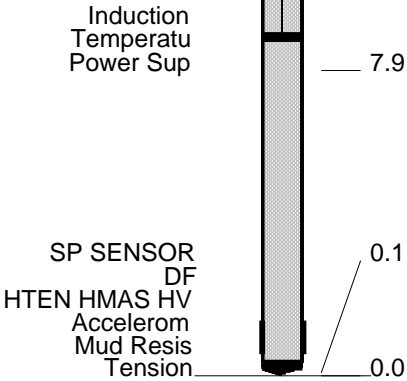
Logging Date					
Run Number					
Depth Driller					
Schlumberger Depth					
Bottom Log Interval					
Top Log Interval					
Casing Driller Size @ Depth		@			
Casing Schlumberger					
Bit Size					
Type Fluid In Hole					
Density		Viscosity			
Fluid Loss		PH			
Source Of Sample					
RM @ Measured Temperature		@			
RMF @ Measured Temperature		@			
RMC @ Measured Temperature		@			
Source RMF	RMF				
RM @ MRT		@		@	
Maximum Recorded Temperatures					
Circulation Stopped		Time			
Logger On Bottom		Time			
Unit Number		Location			
Recorded By					
Witnessed By					

OTHER SERVICES1	OTHER SERVICES2
OS1: MSIP	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the first run in hole	
Toolstring run as per tool sketch	
Matrix: Repeat pass run on both Sandstone (2.65 g/cc) and Limestone (2.71 g/cc)	
Main pass run on Limestone (2.71 g/cc)	
All prints done using Limestone (2.71 g/cc) matrix	



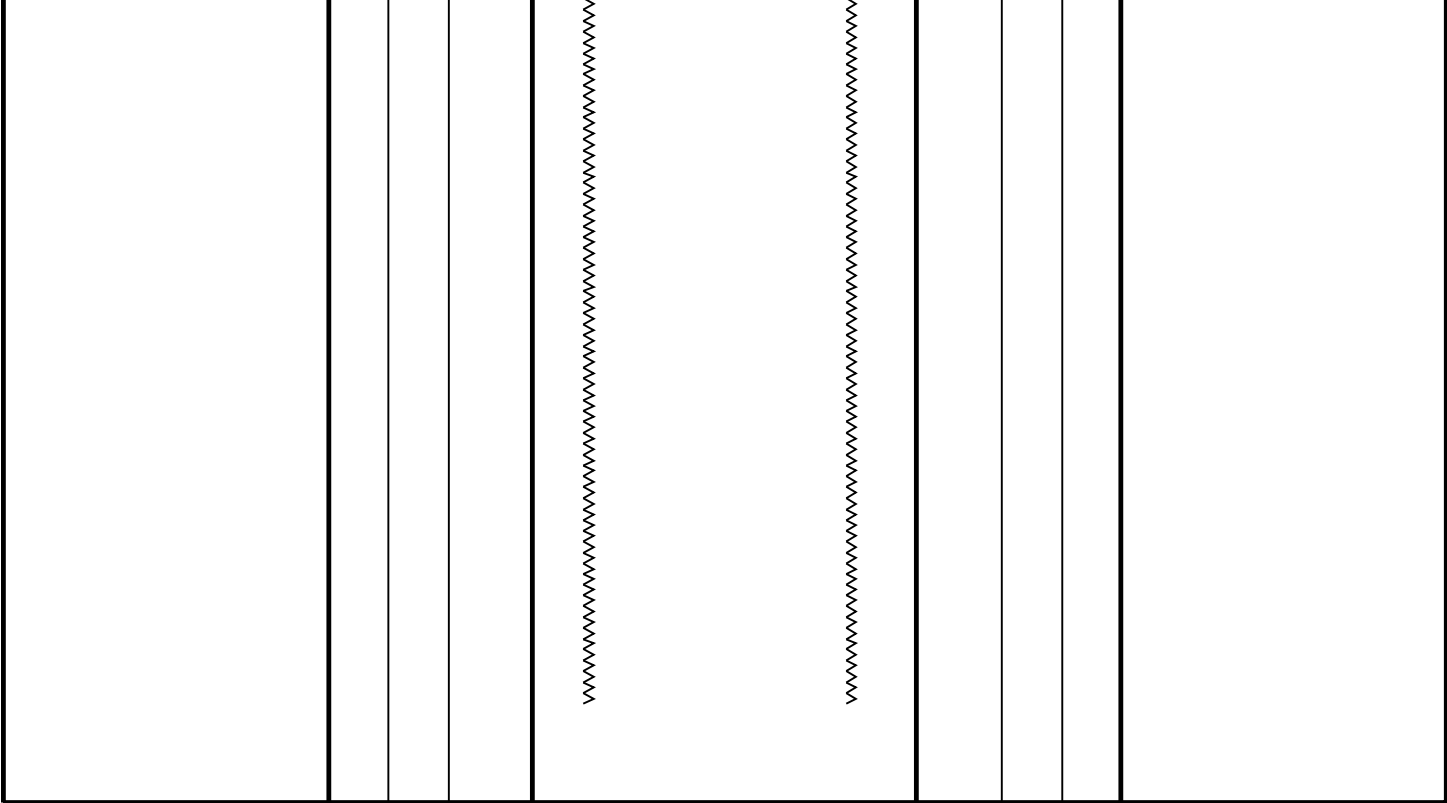
AIT-M
AMIS-A 39
AMRM-A

16.0



MAXIMUM STRING DIAMETER 4.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Production String	(in)		(ft)	Well Schematic	(ft)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	8.625		Casing String
					453.0 453.0	8.625 7.875		Casing Shoe Borehole Segment



All Depths are Driller's
Depths

Schlumberger

COMBO LOG 5" = 100'

MAXIS Field Log

Company: Vecta Oil & Gas Ltd Well: Little Bear 44-28

Input DLIS Files

DEFAULT	MERGE_AIT_026L	FN:1	PRODUCER	10-Apr-2012 16:37	5709.5 FT	328.0 FT
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Output DLIS Files

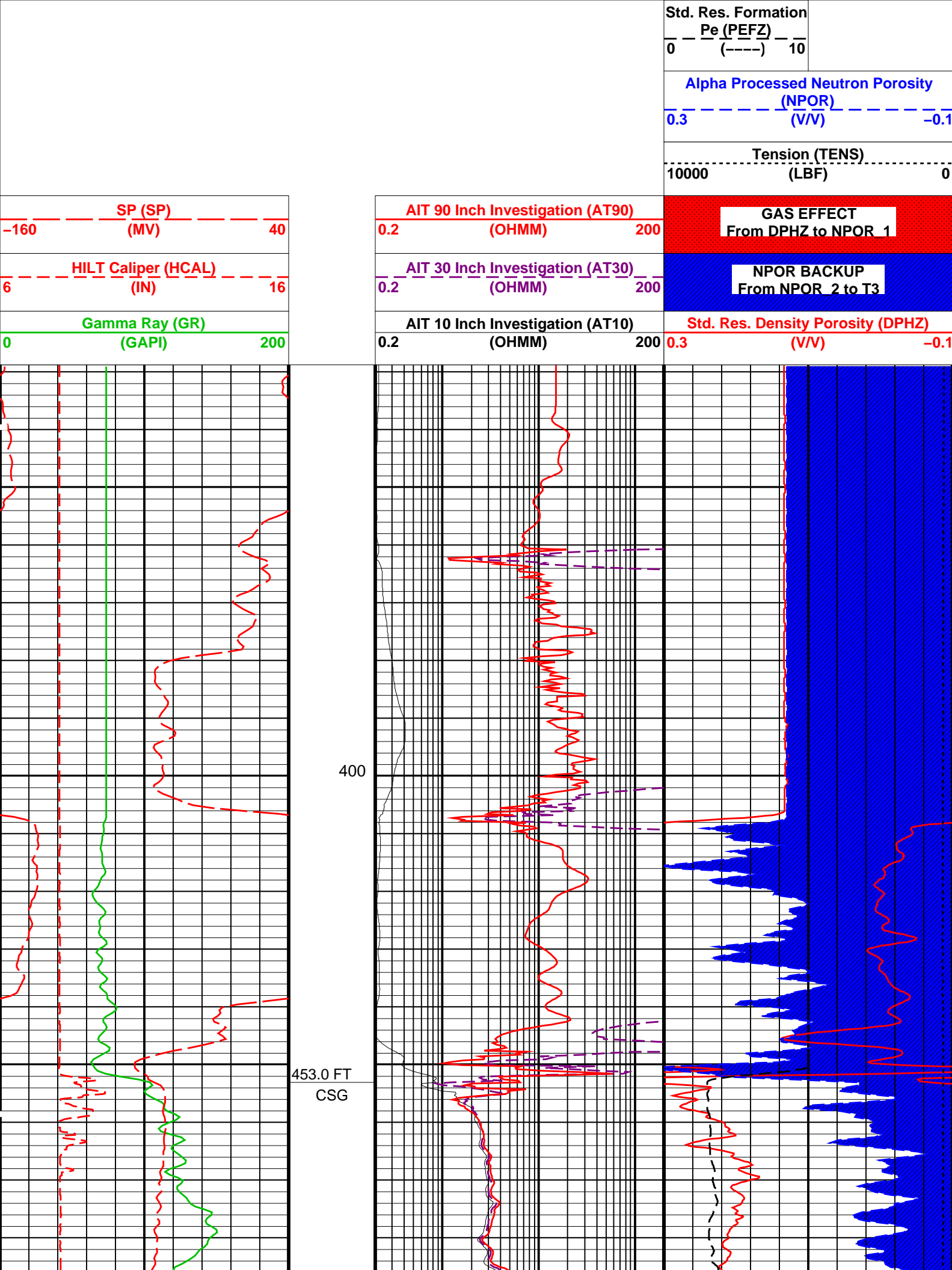
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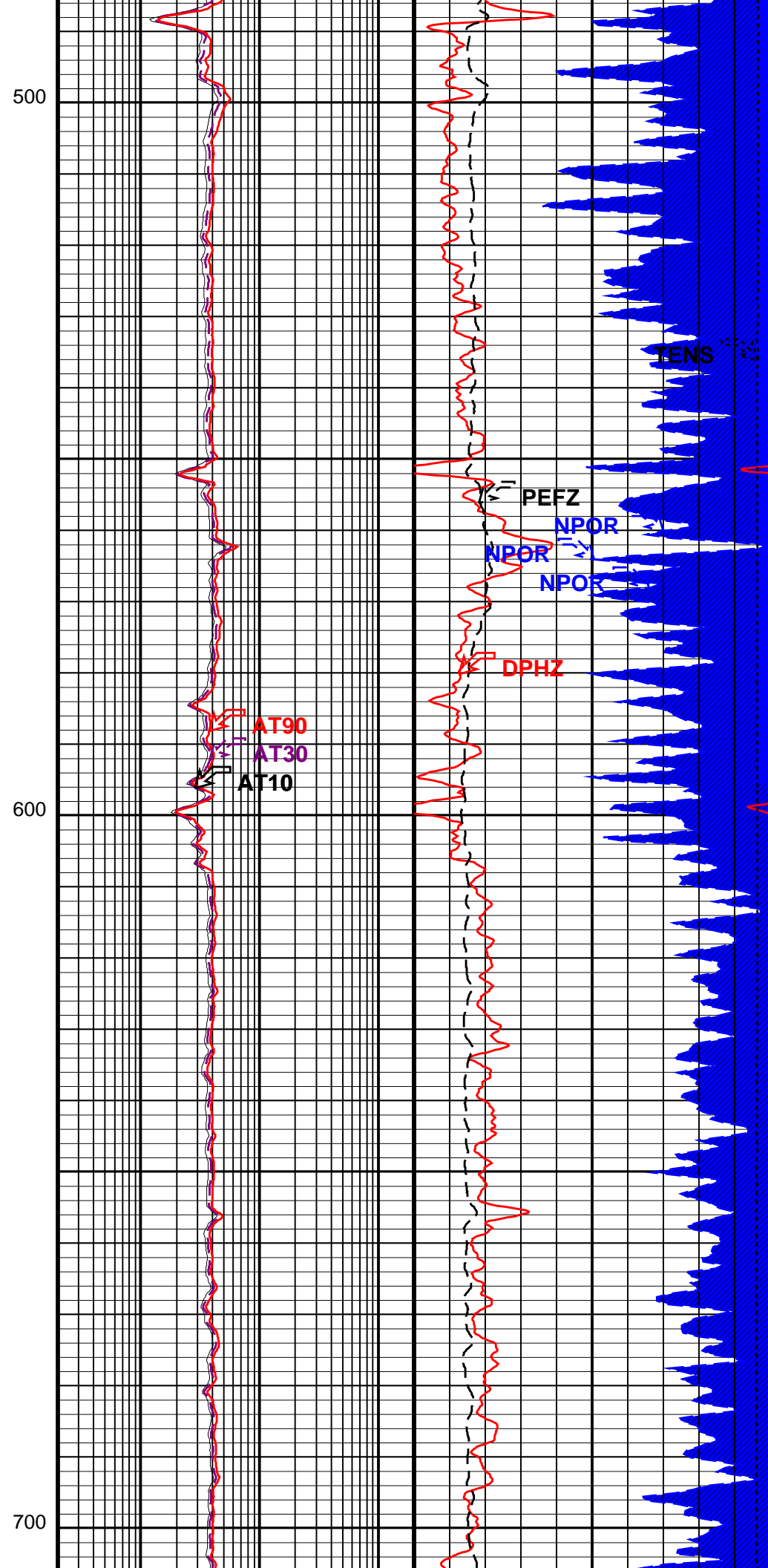
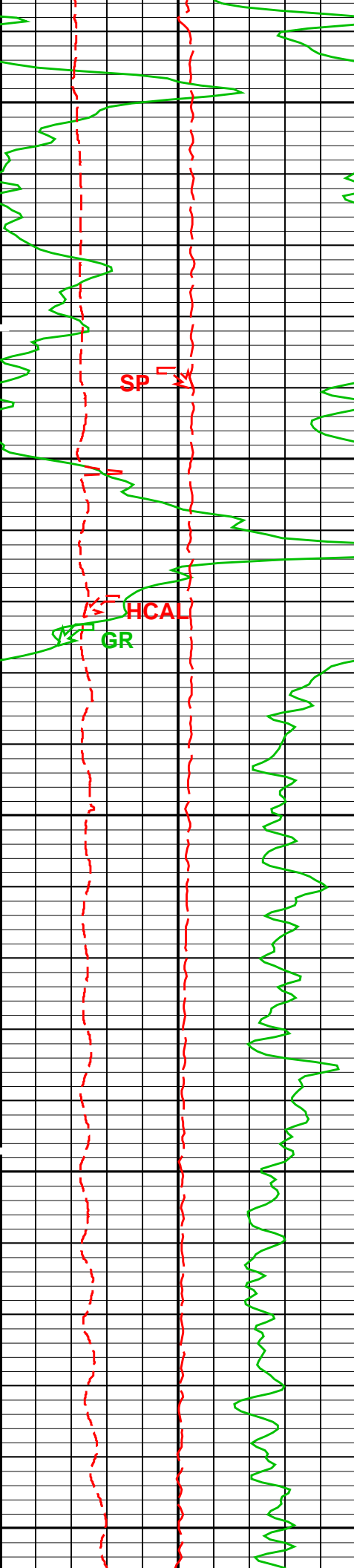
OP System Version: 18C0-147

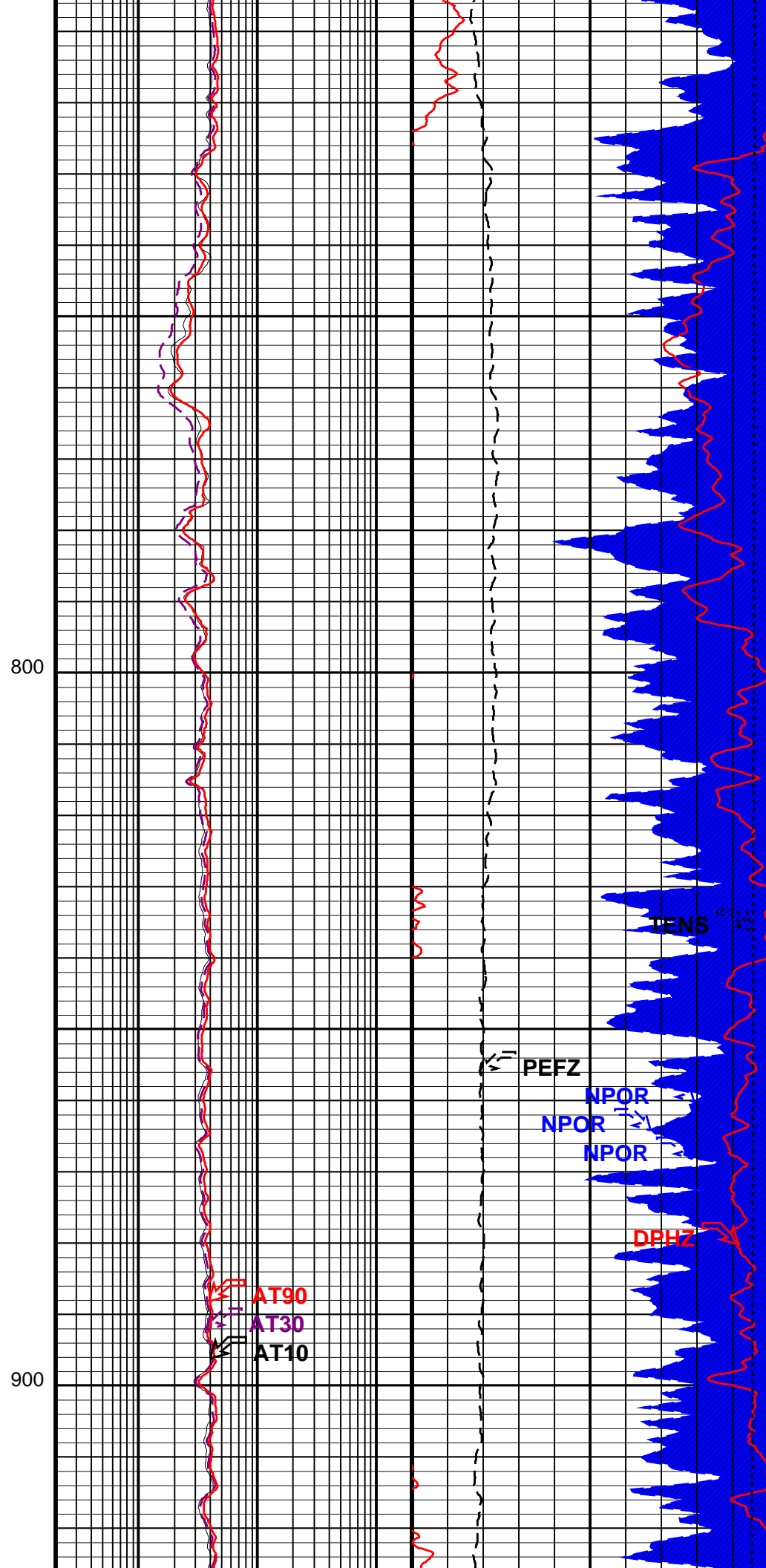
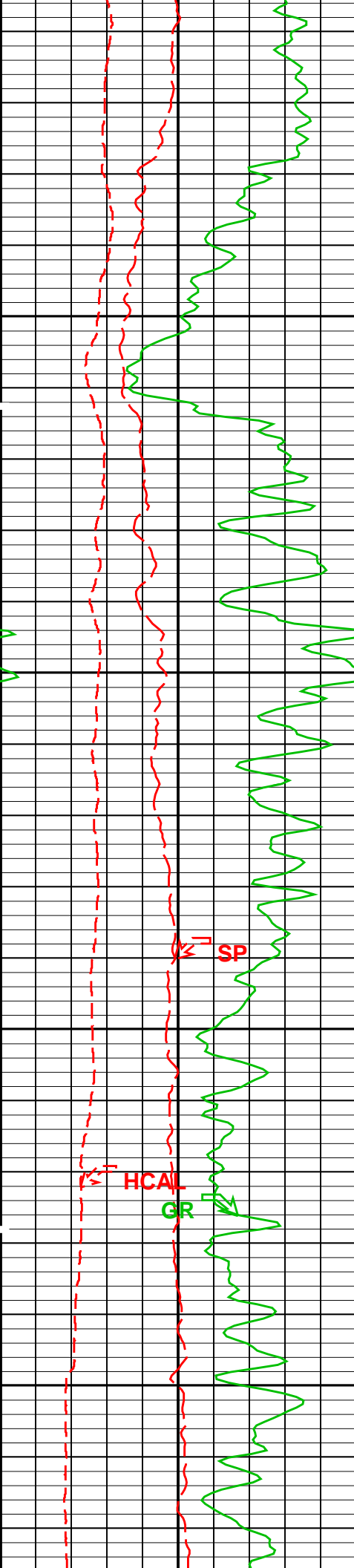
AIT-M	18C0-147	HILTH-FTB	18C0-147
DTC-H	18C0-147		

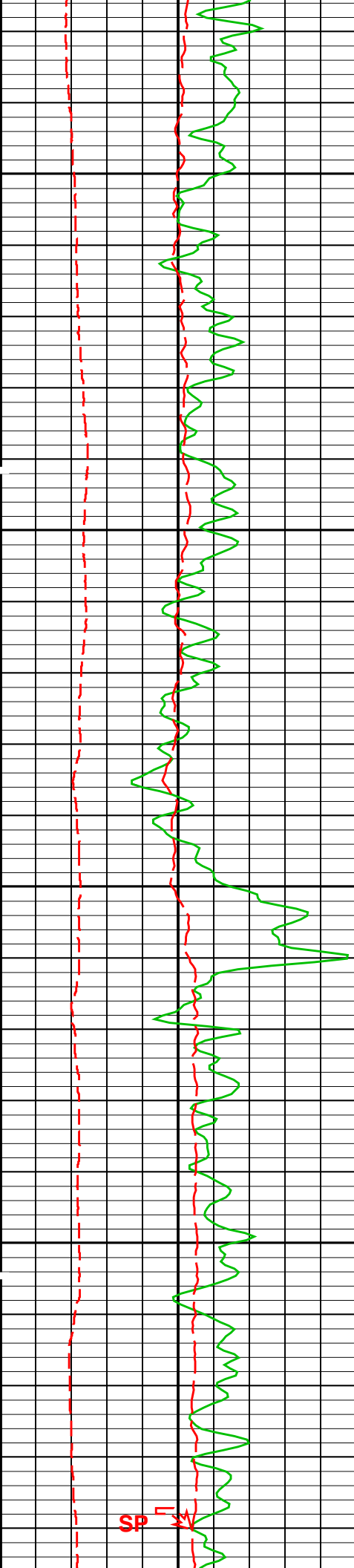
PIP SUMMARY

Time Mark Every 60 S



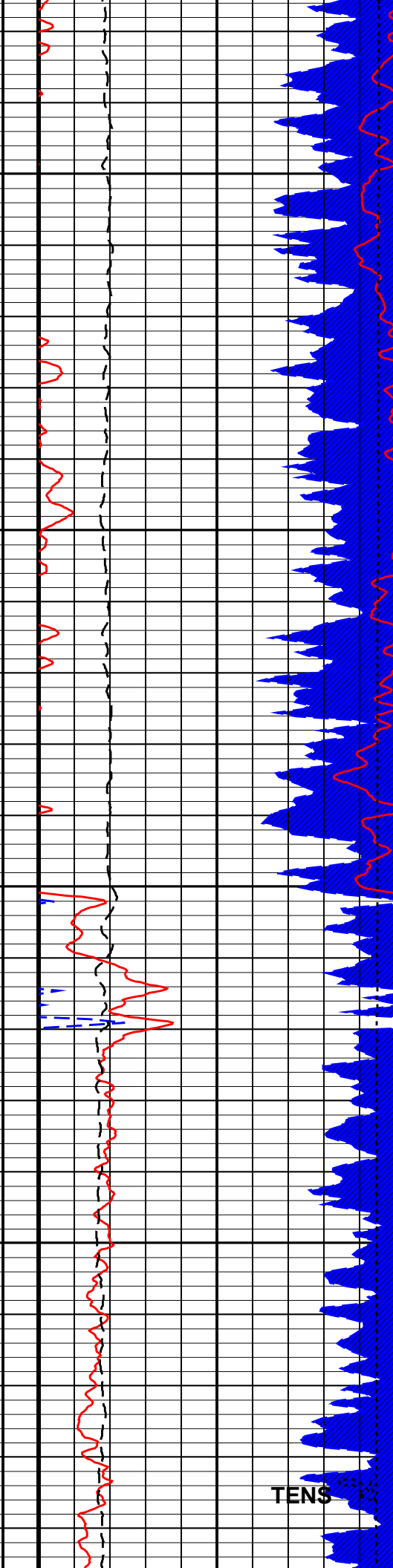




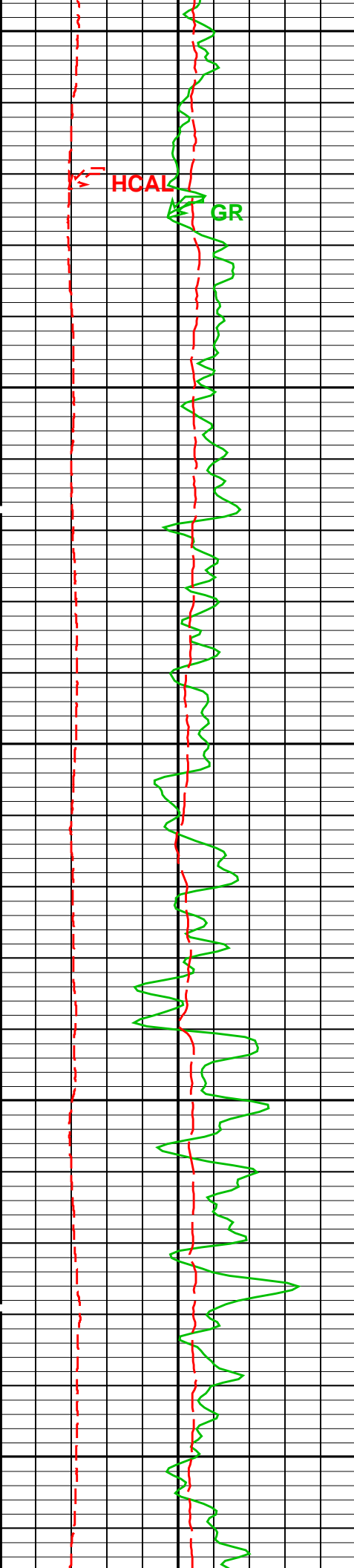


1000

1100

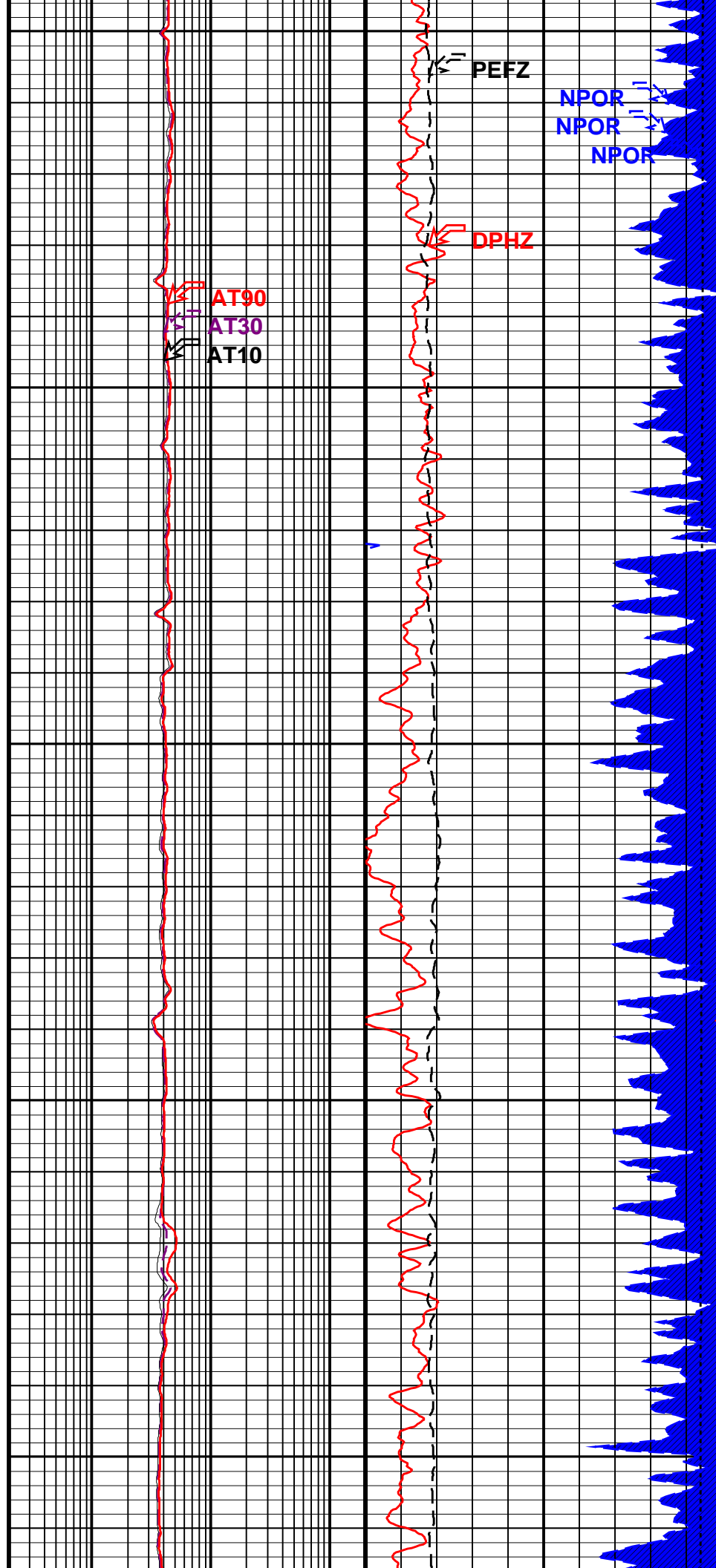


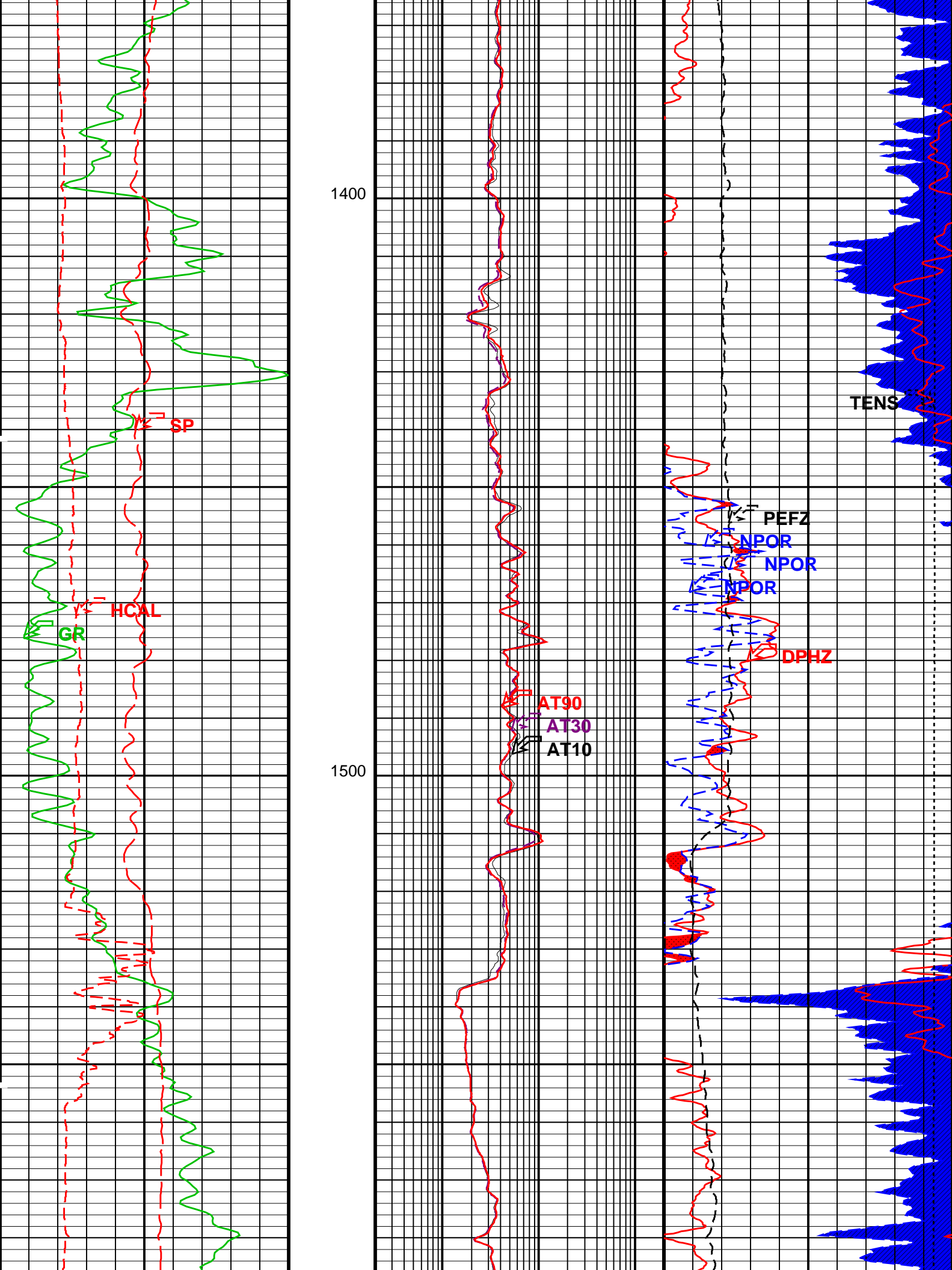
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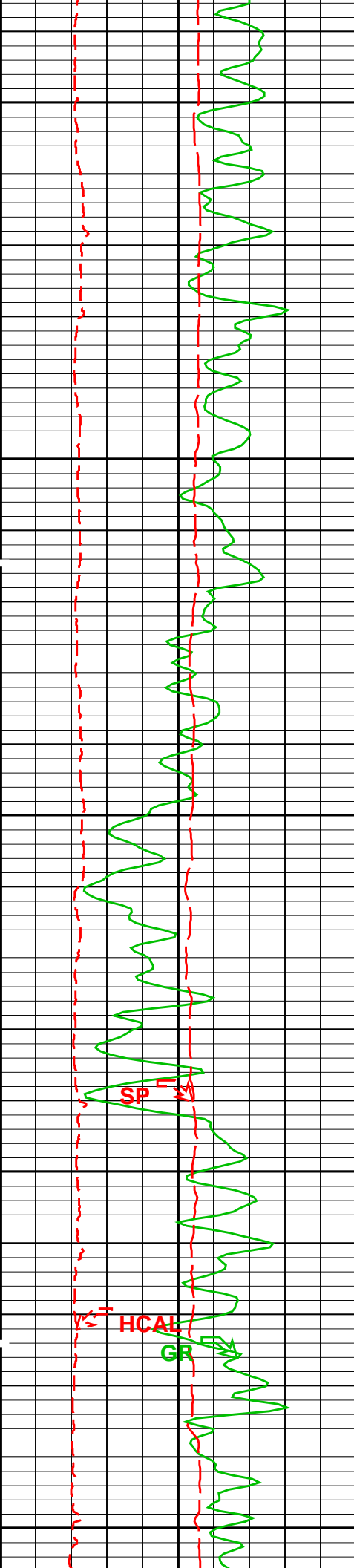


1200

1300



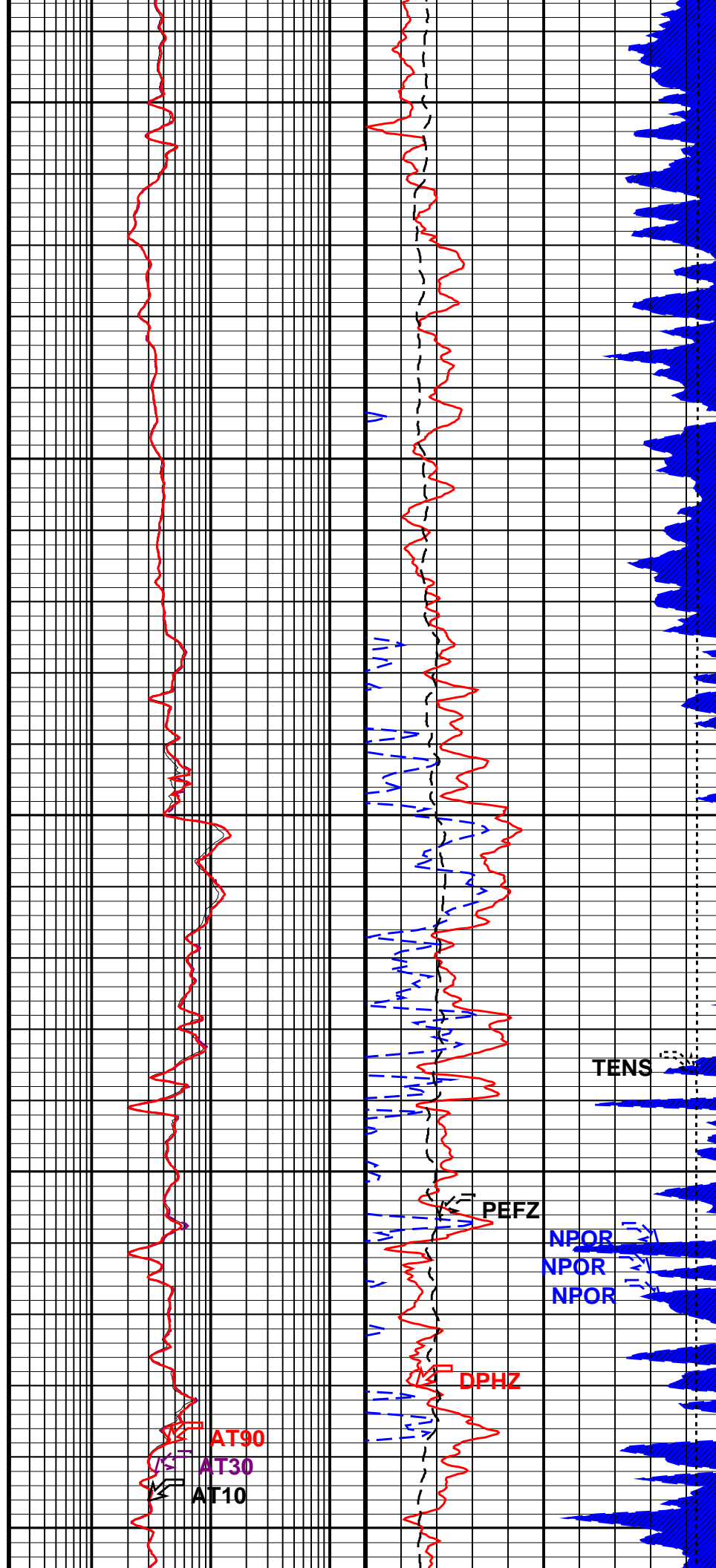


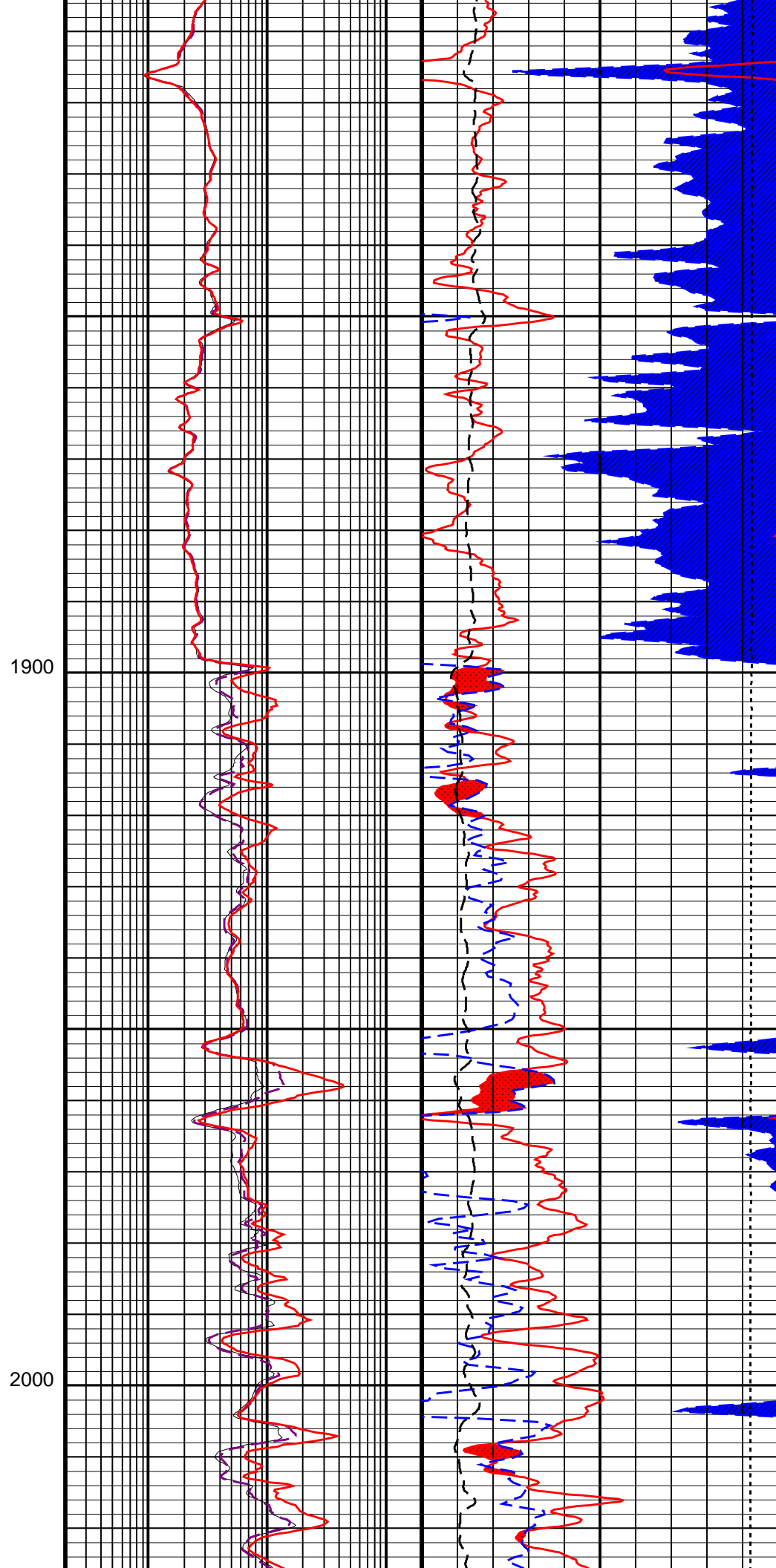
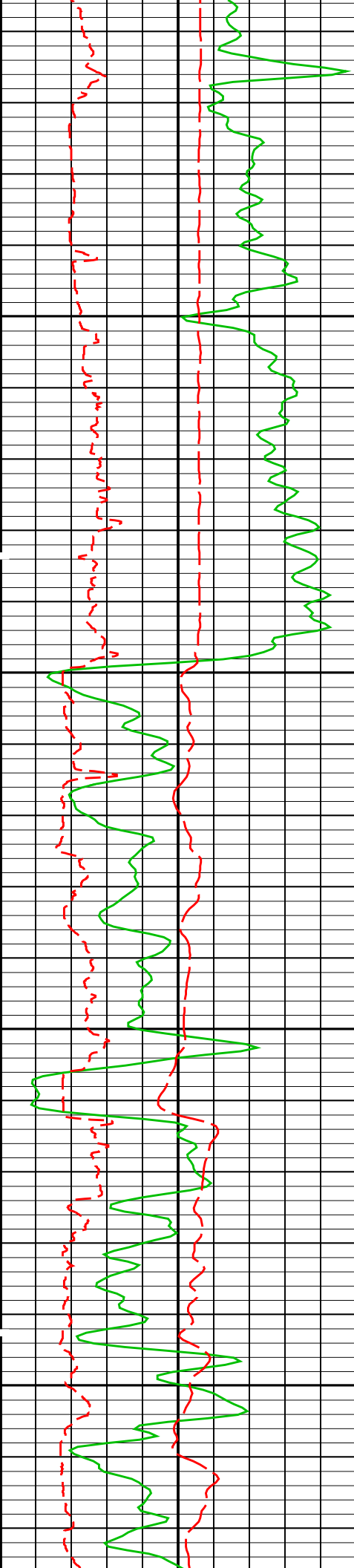


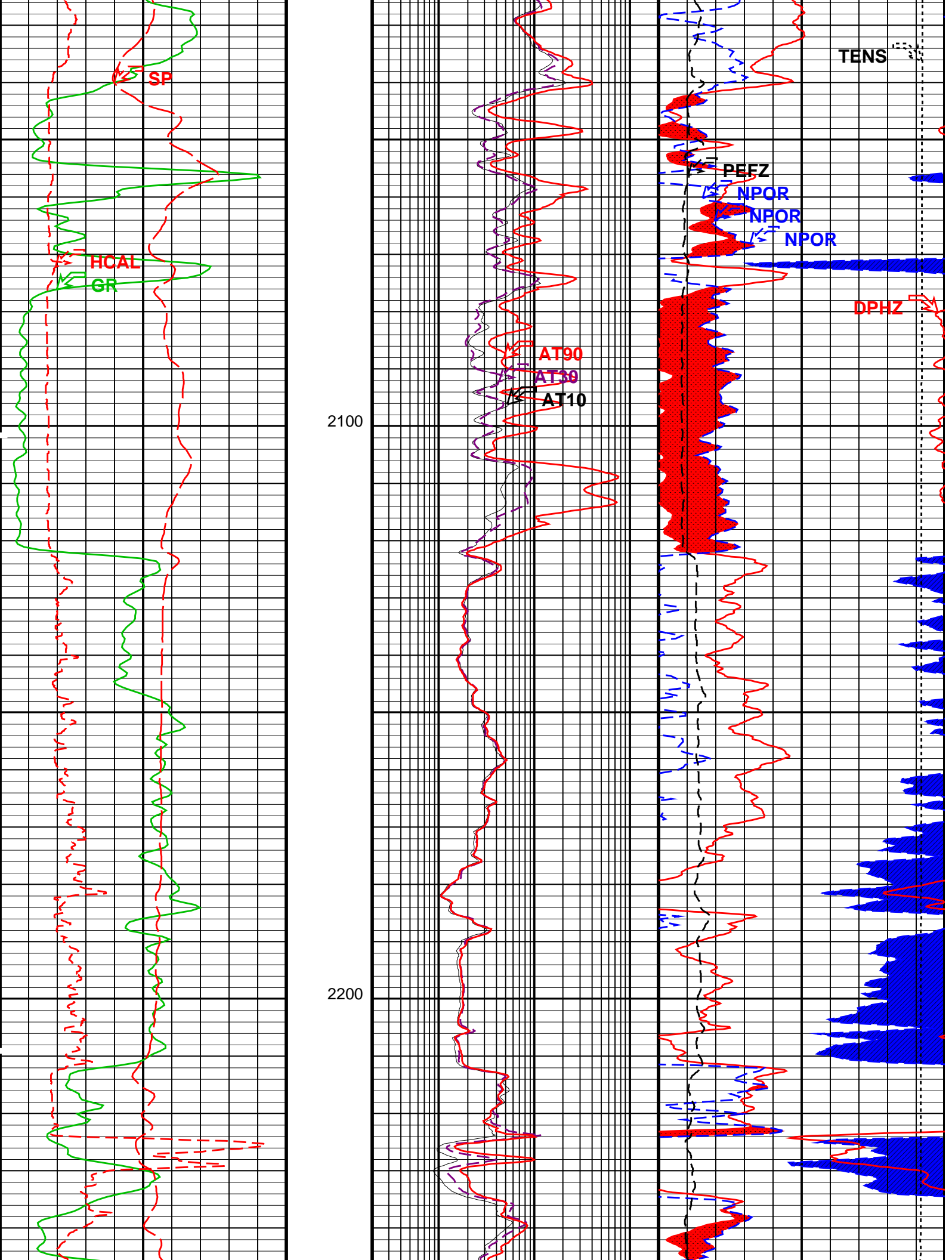
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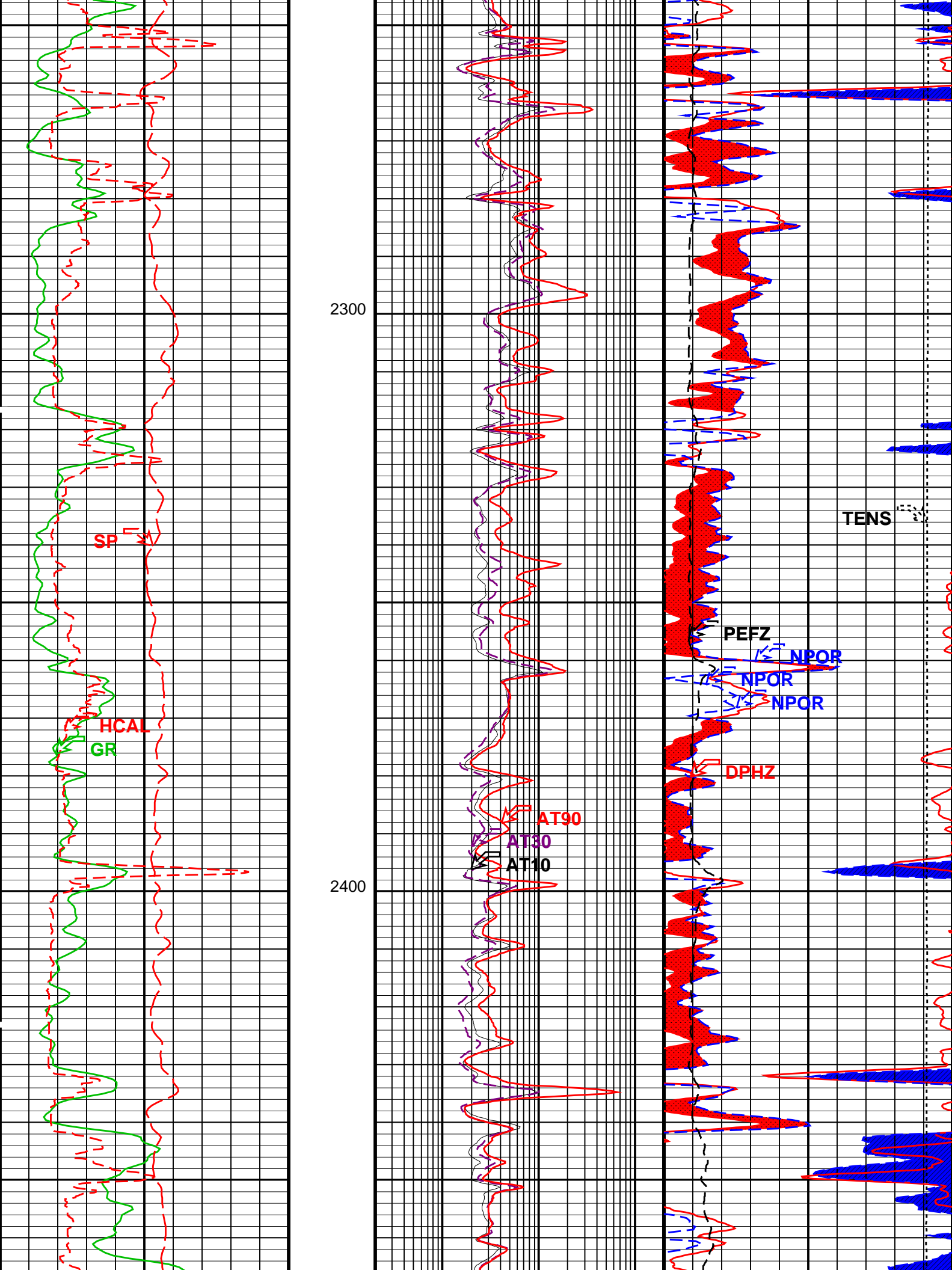
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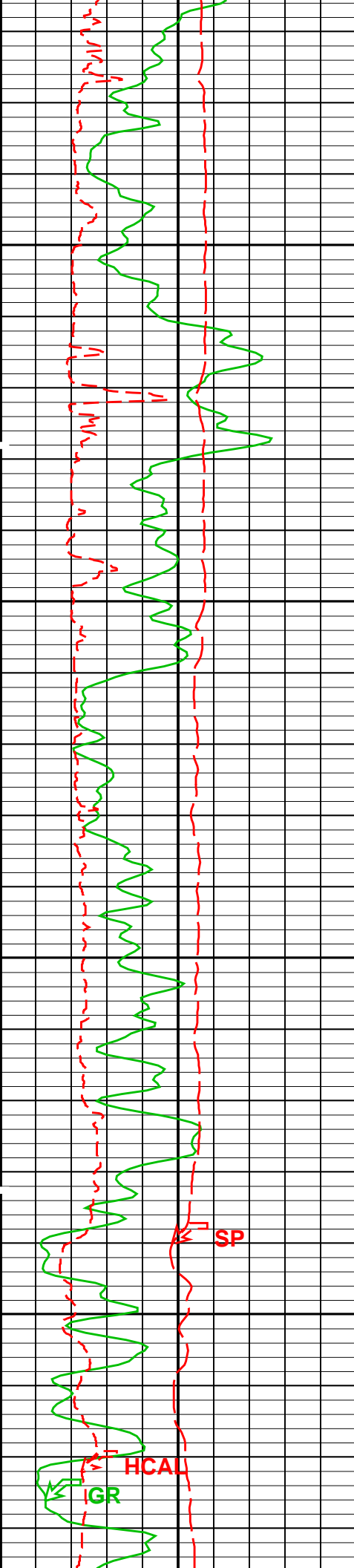
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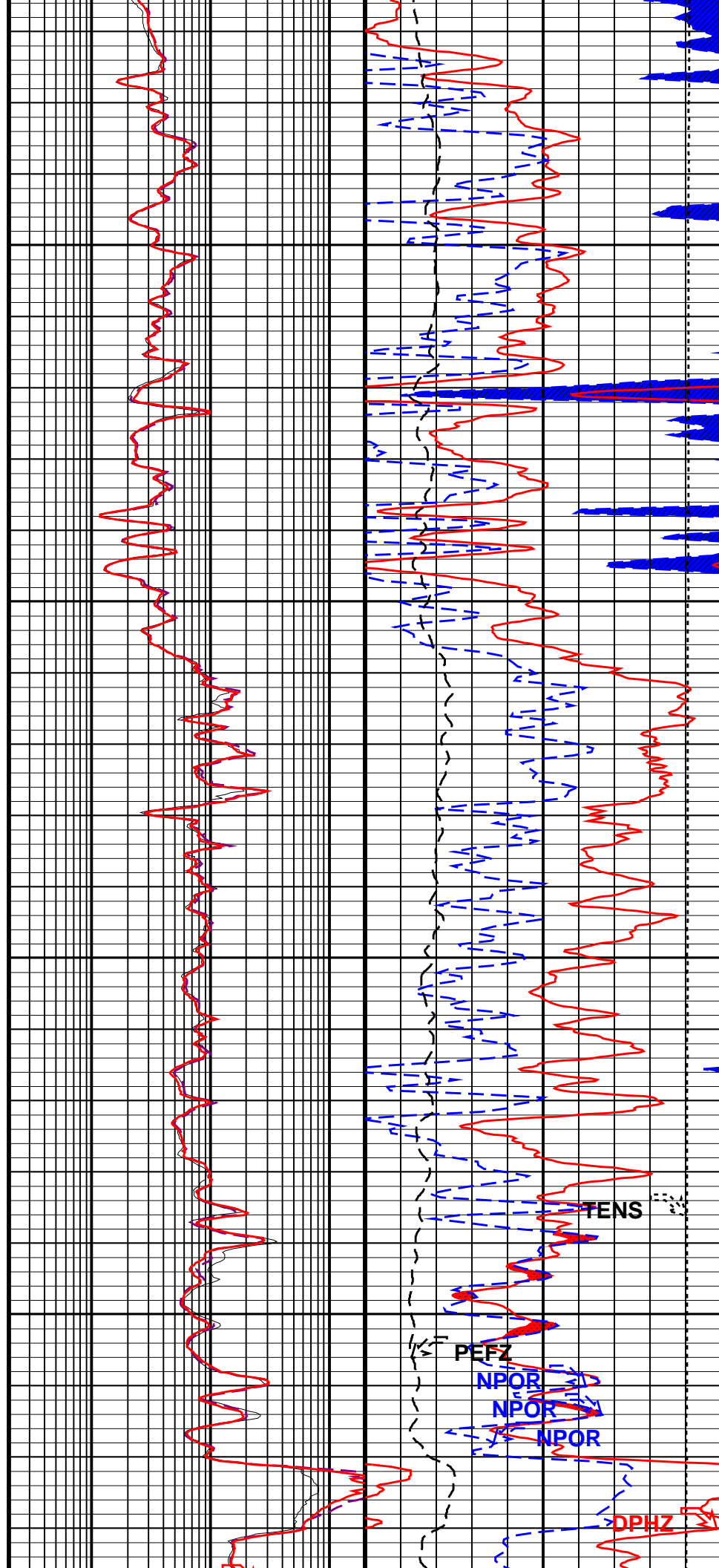


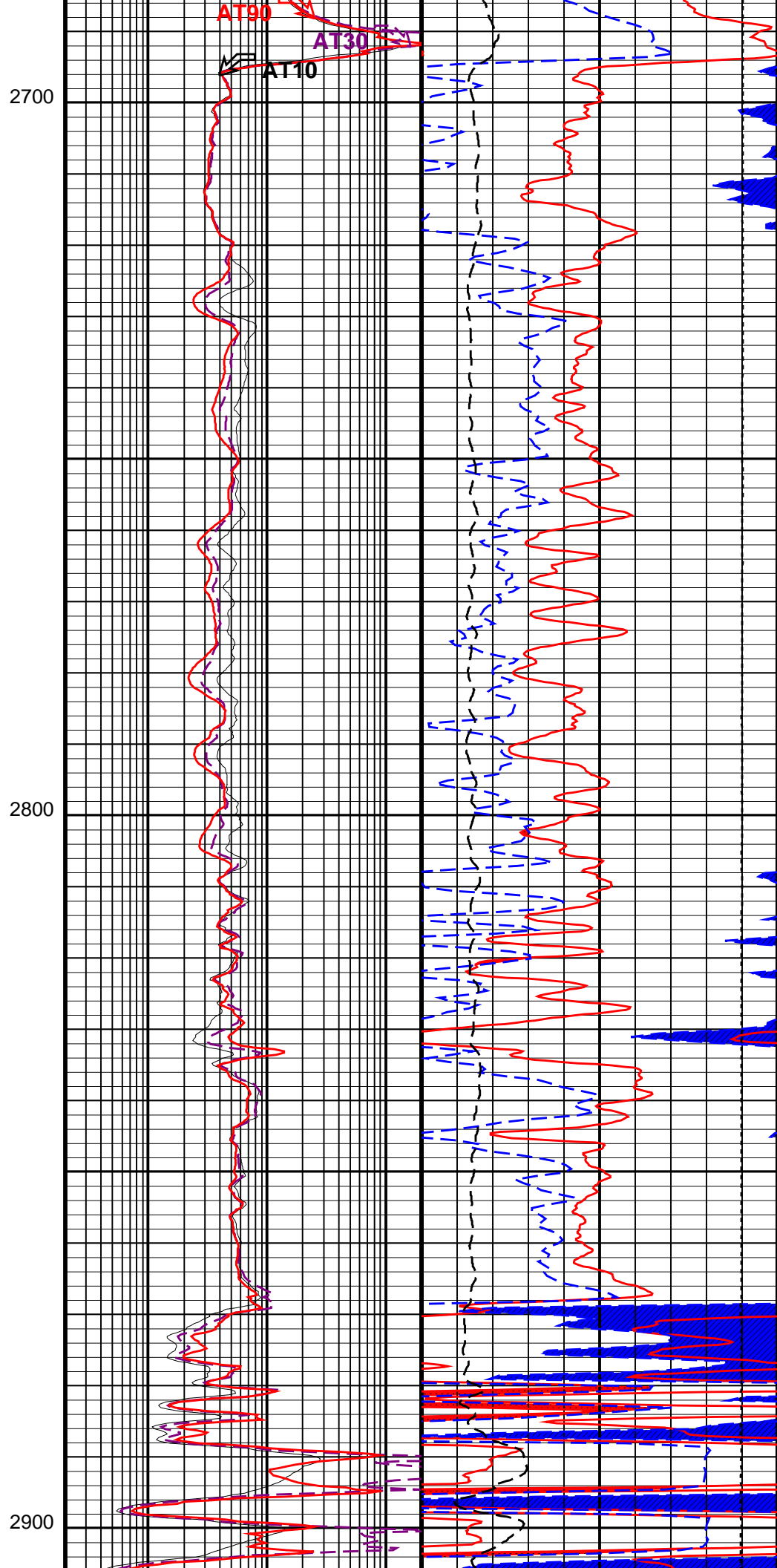
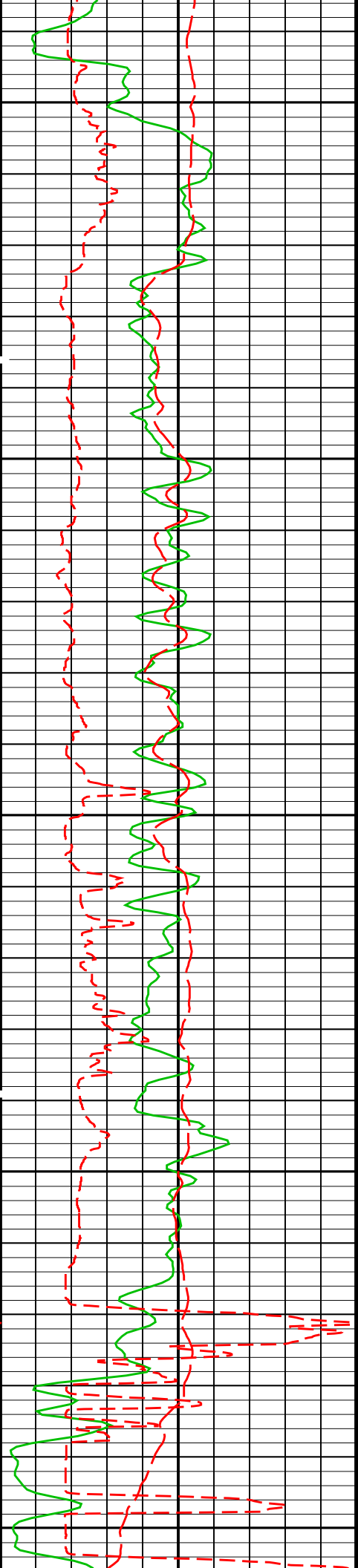


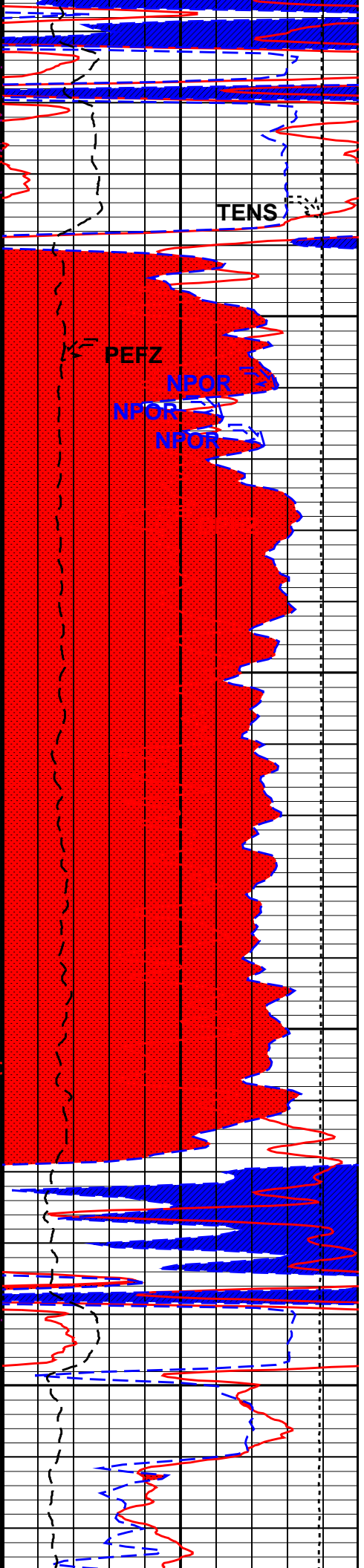
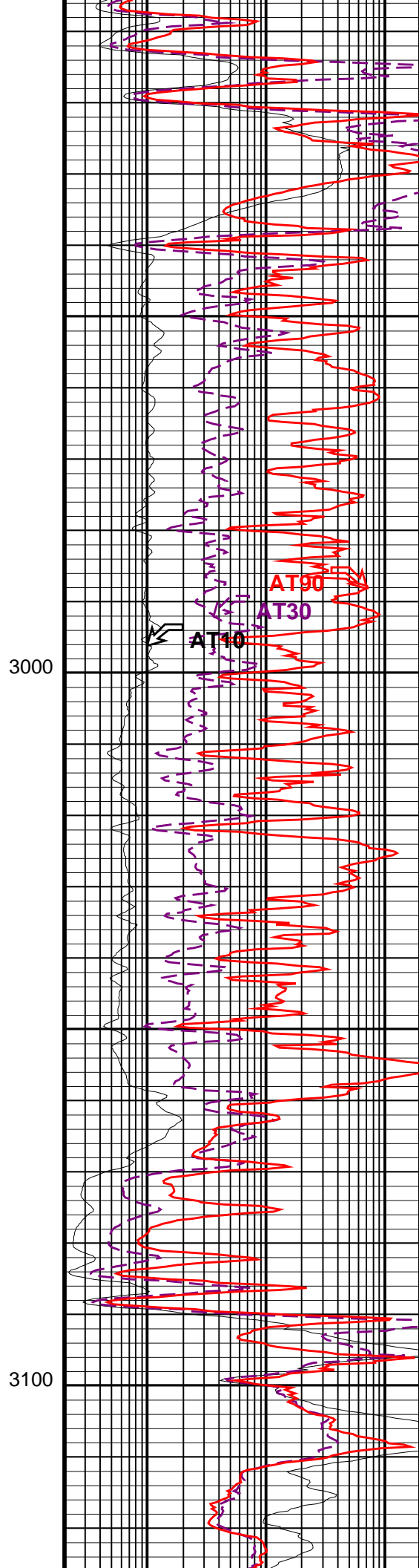
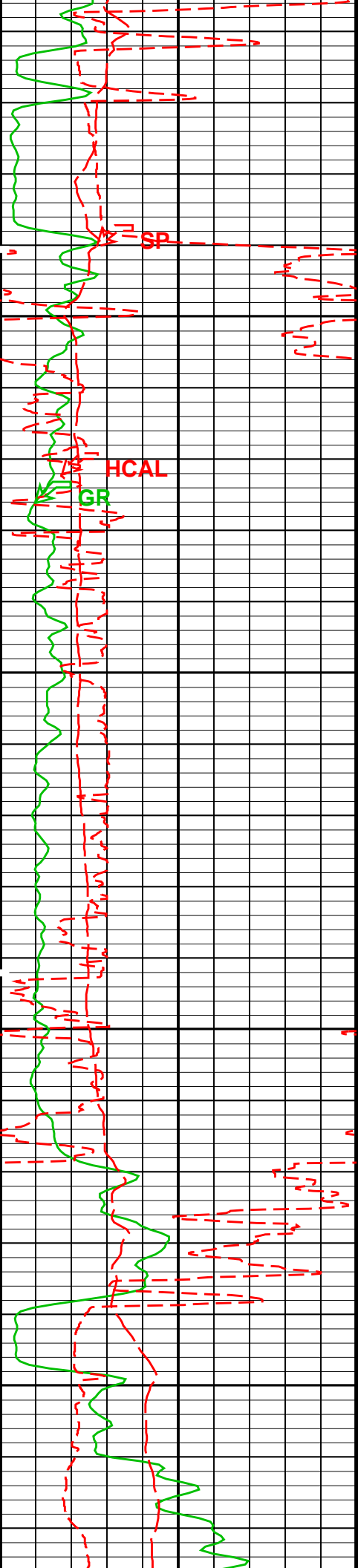


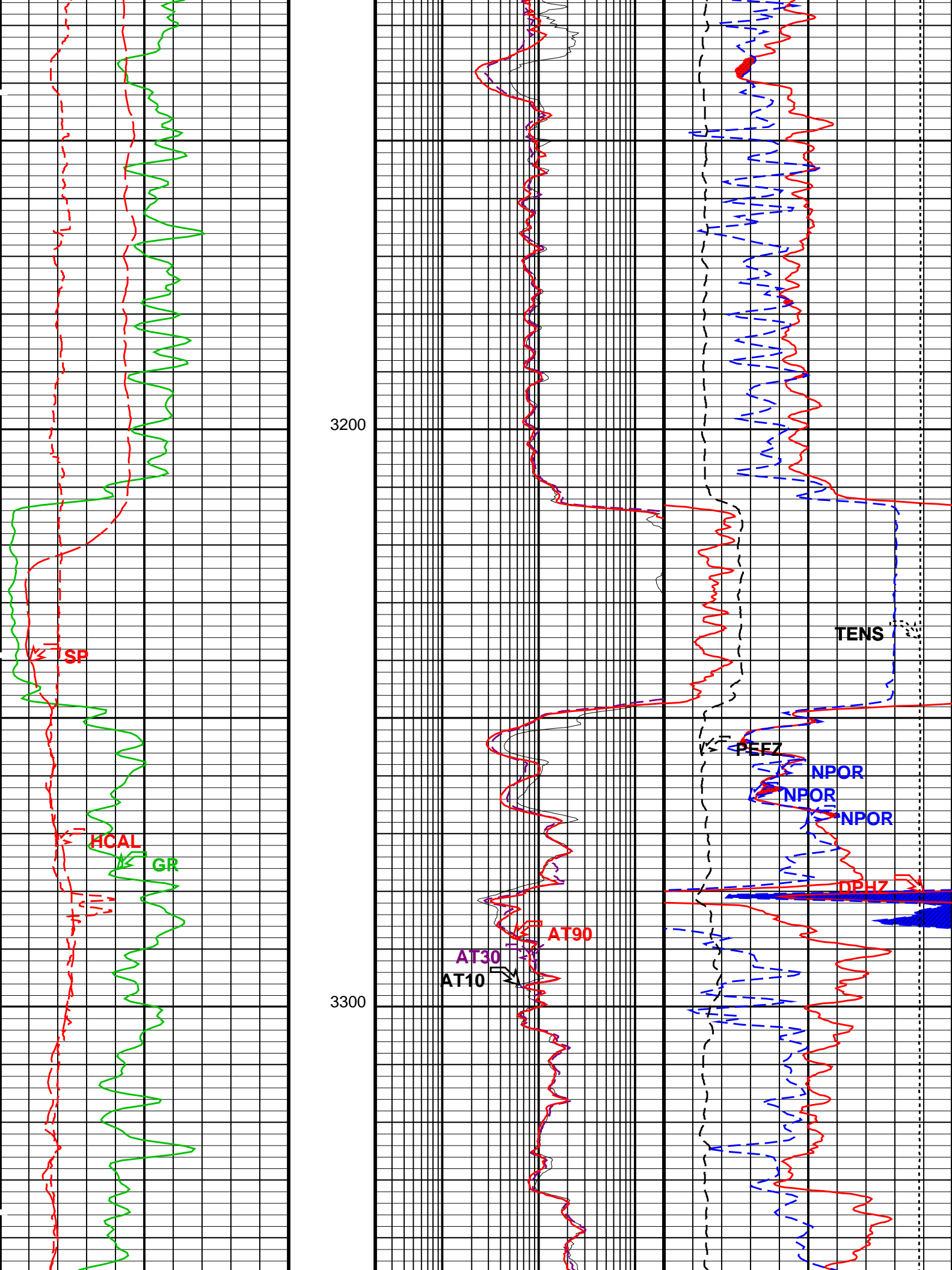
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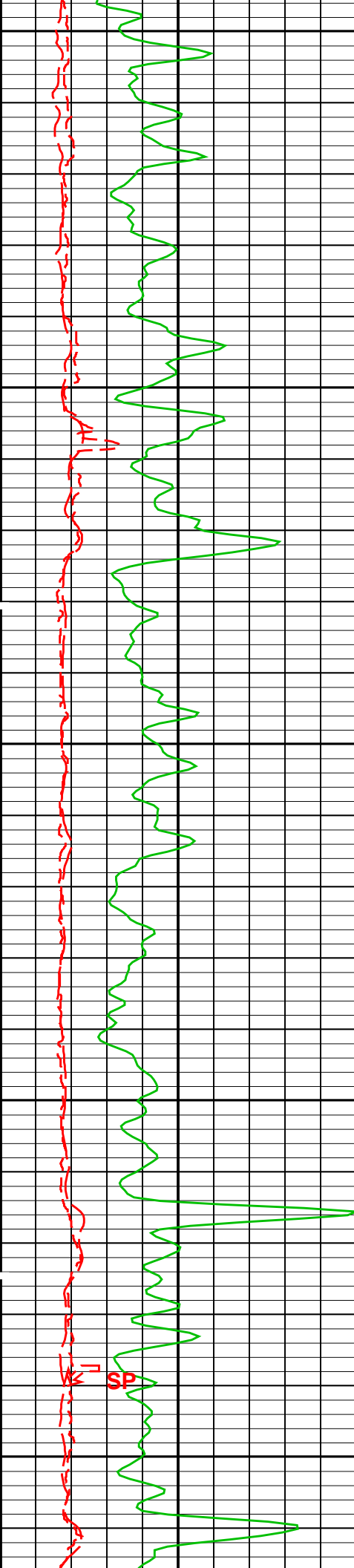
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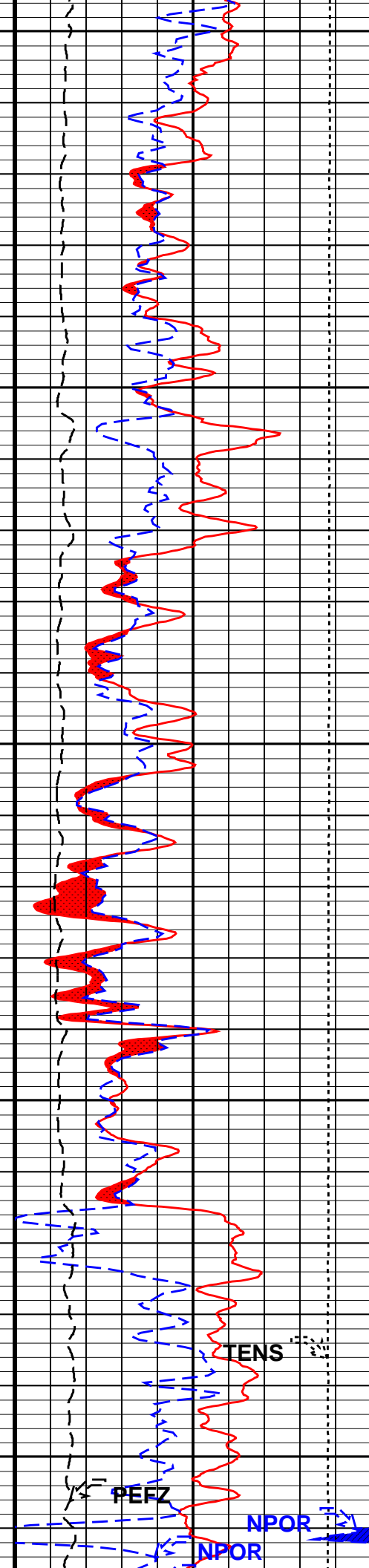
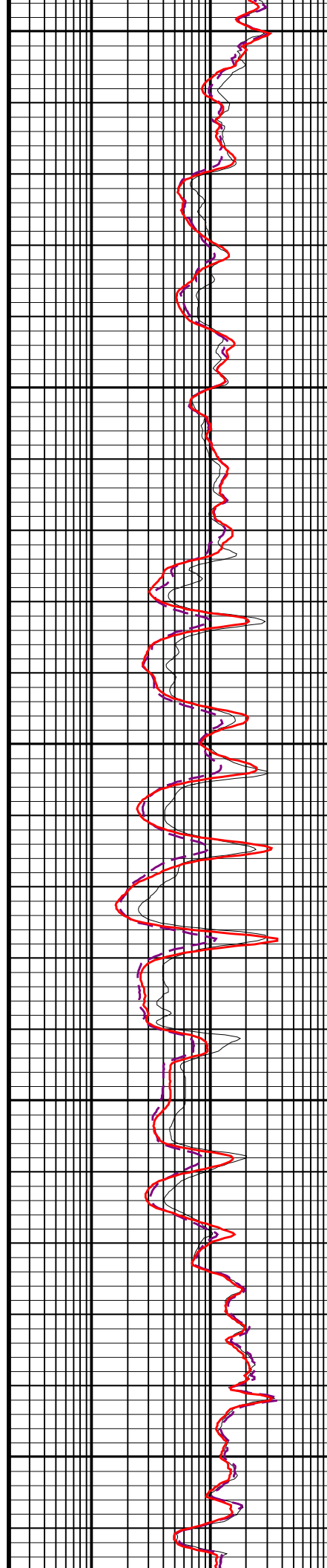


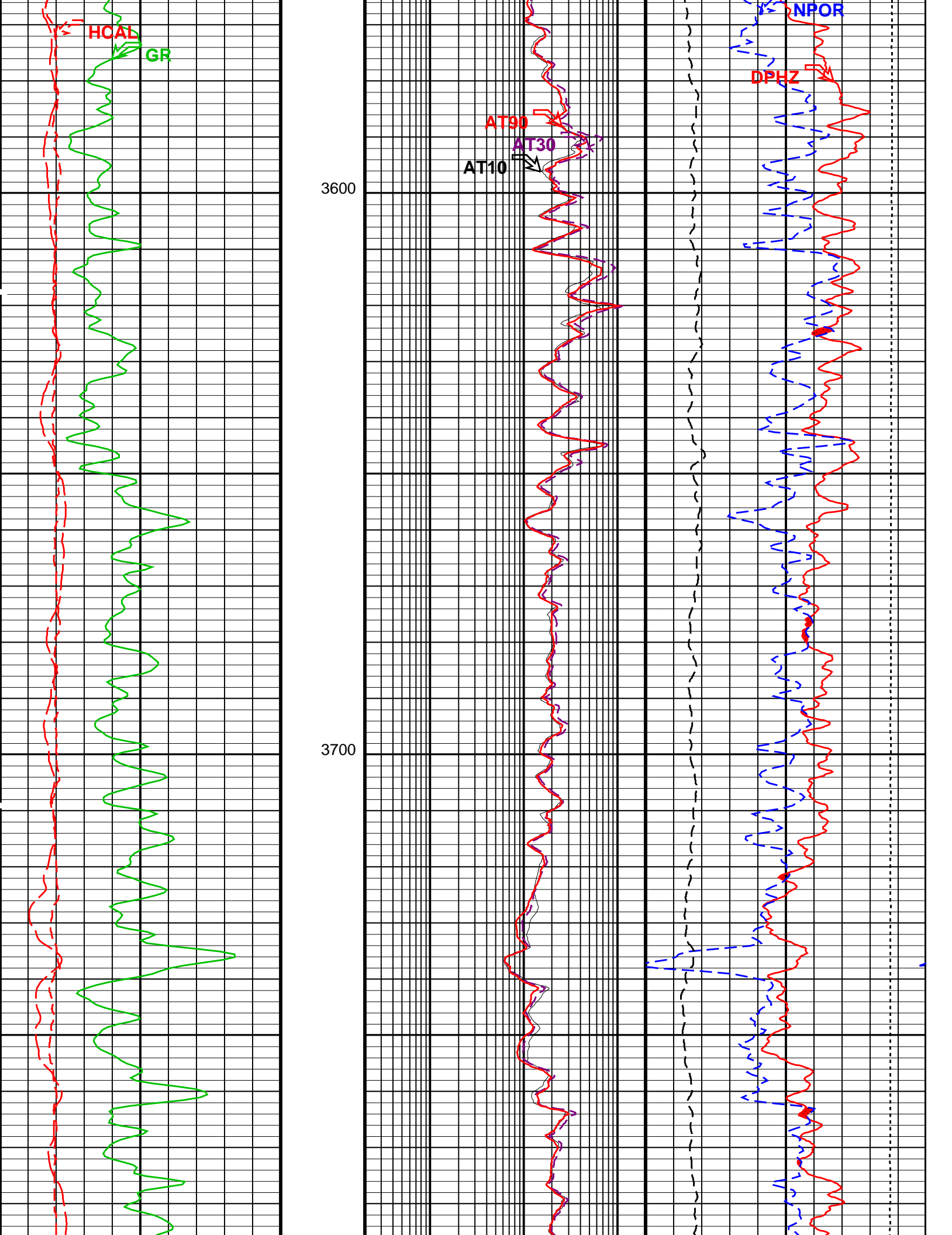


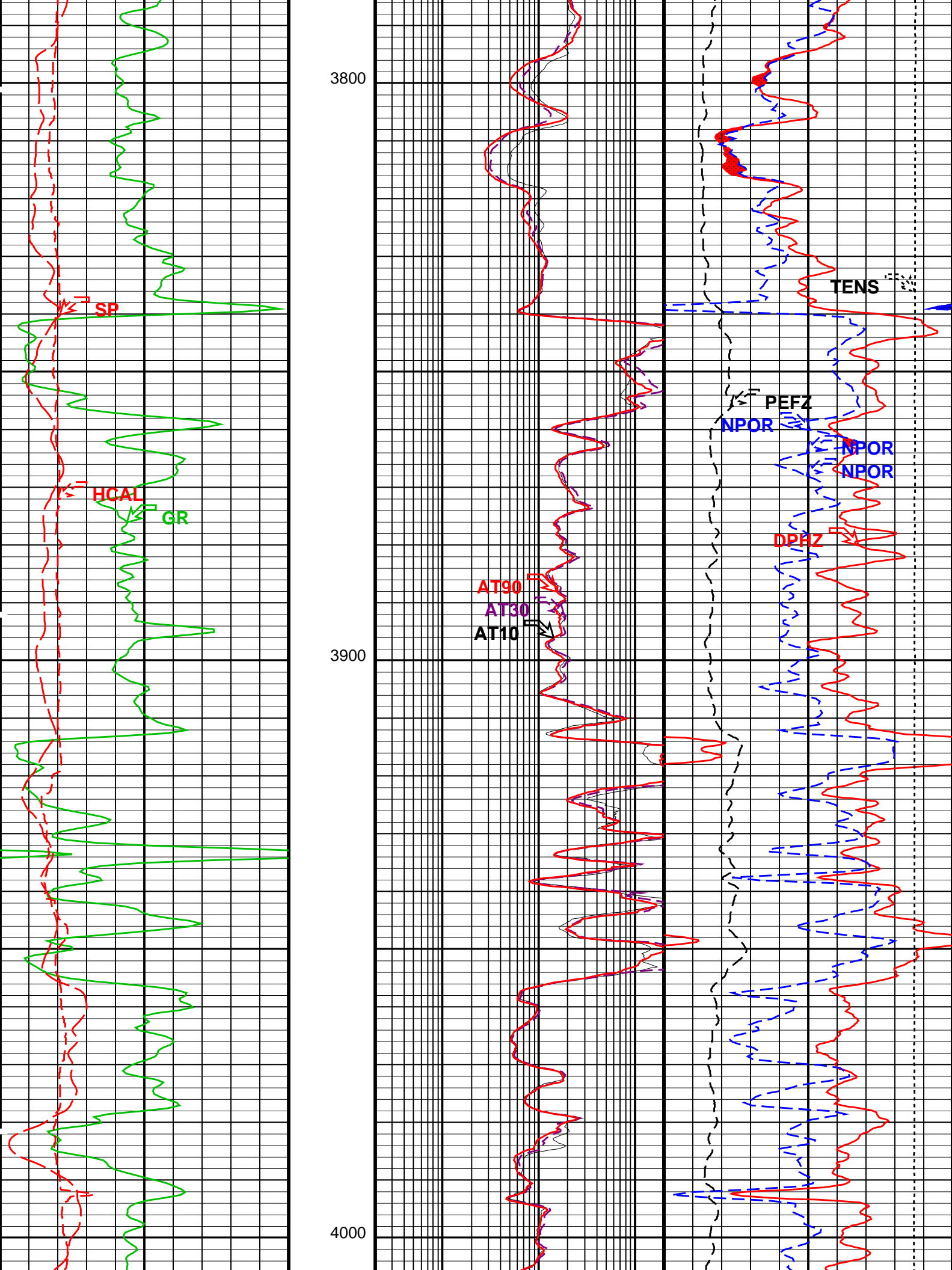


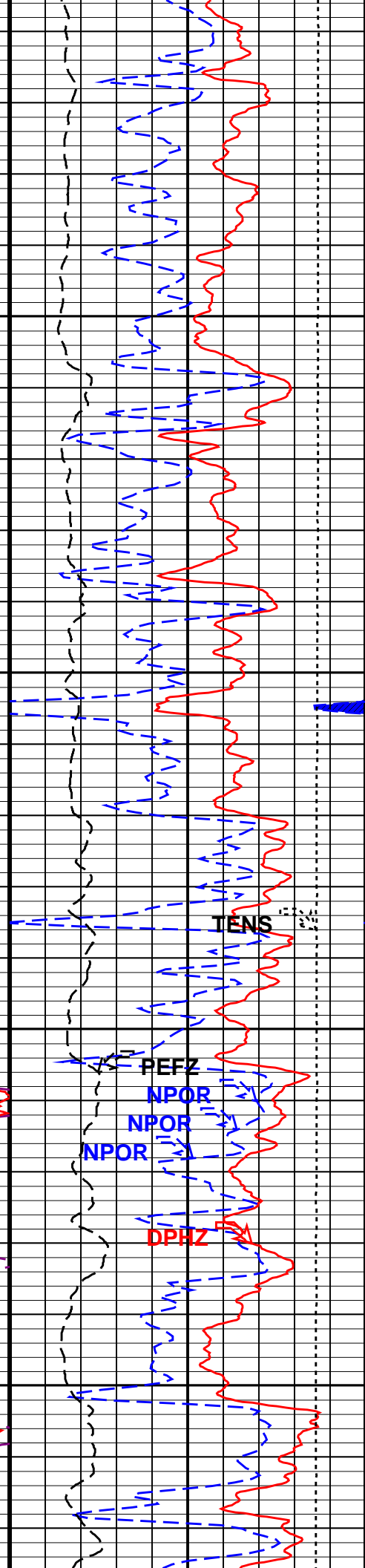
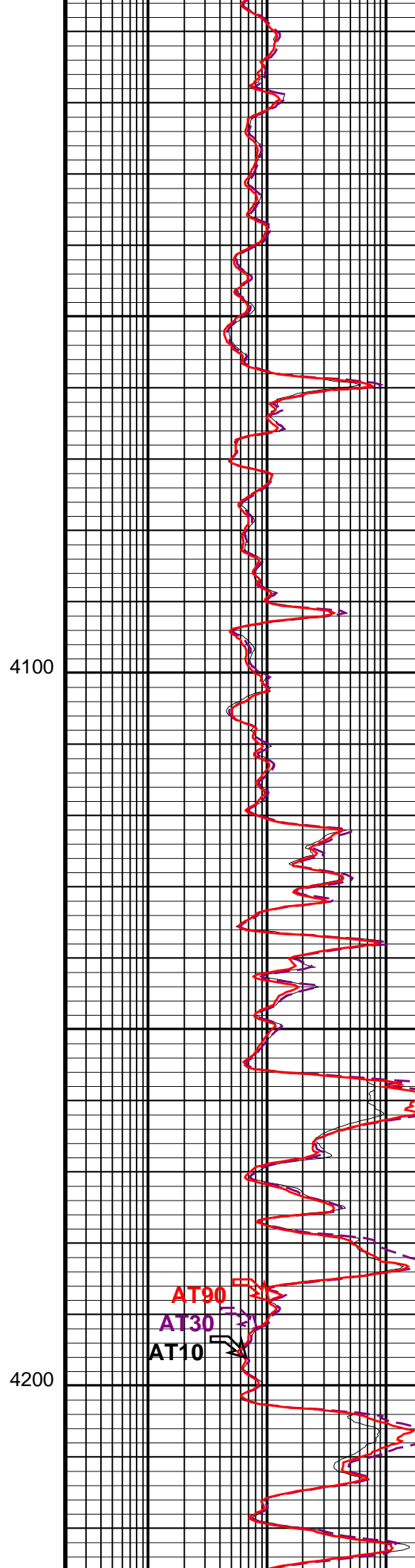
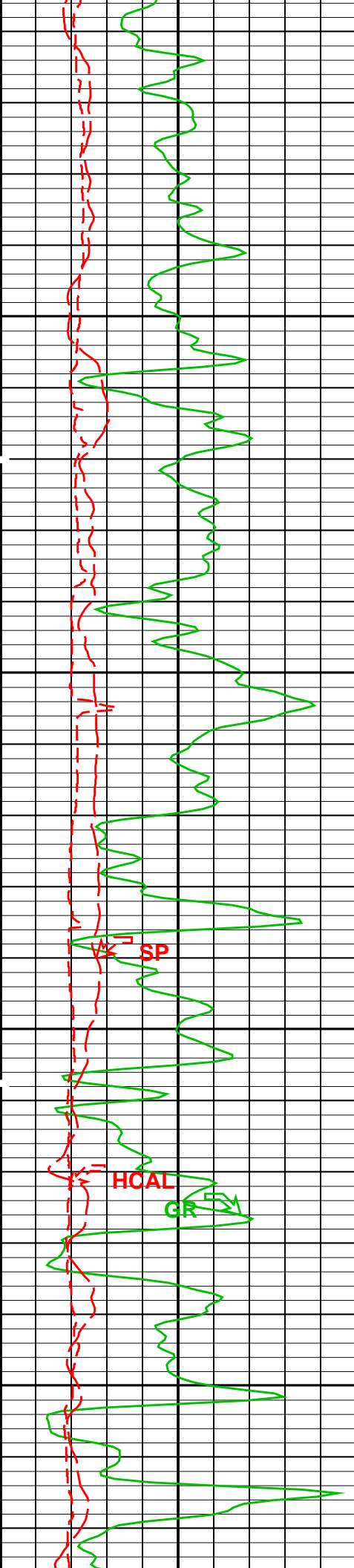
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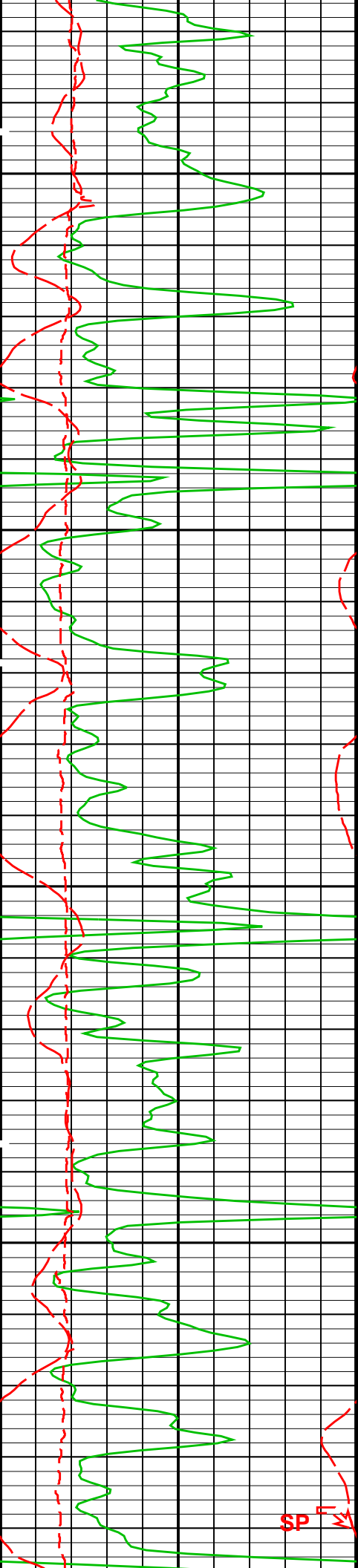
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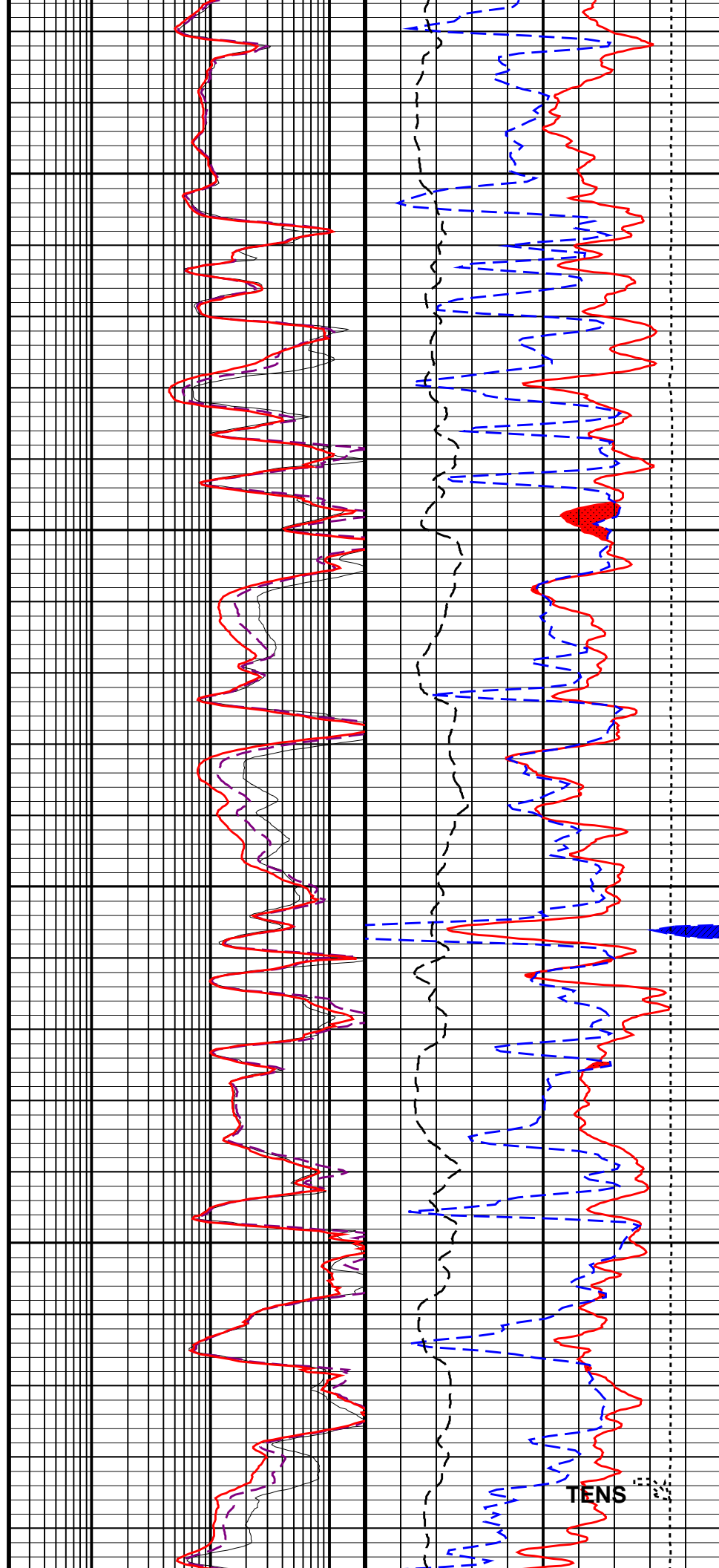


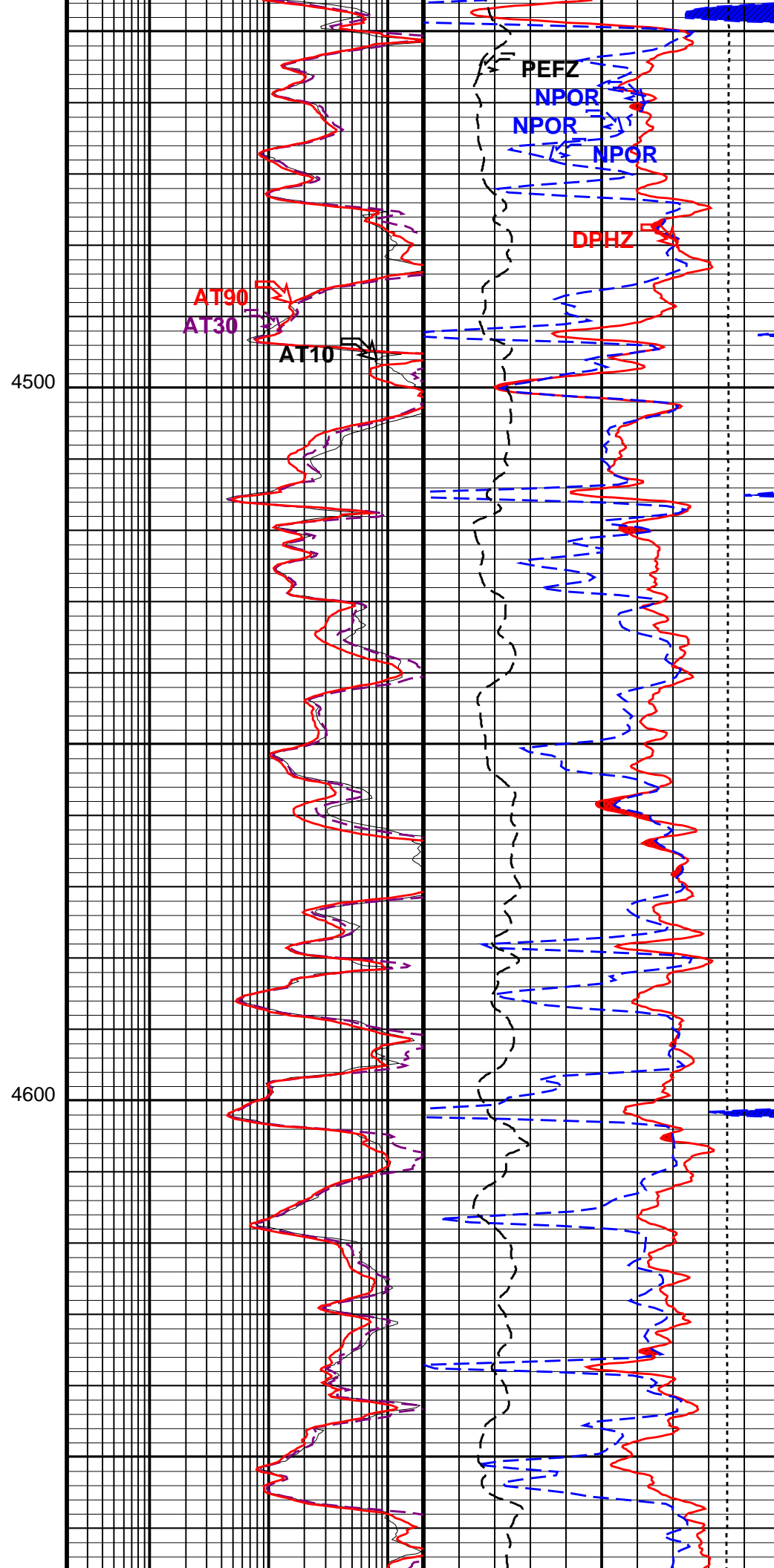
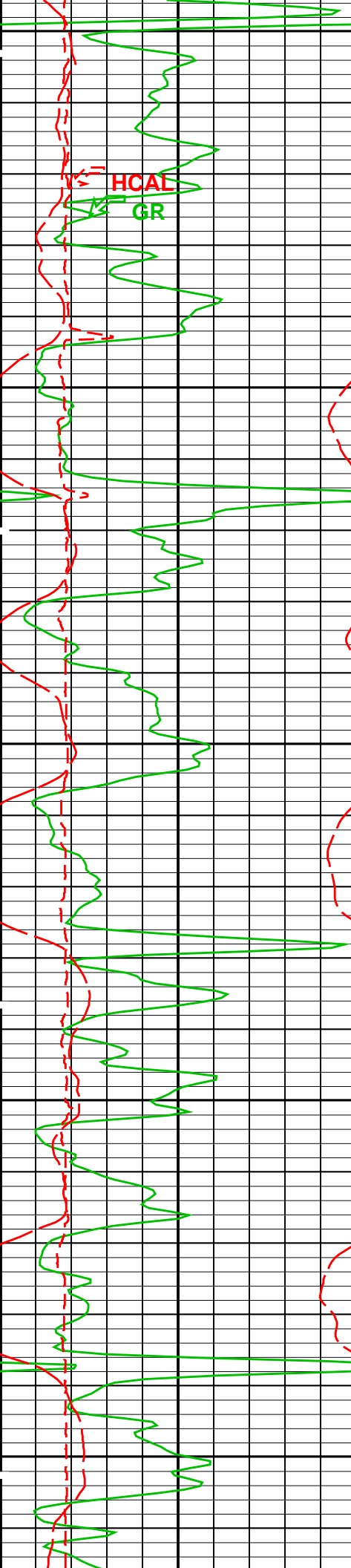




4300

4400

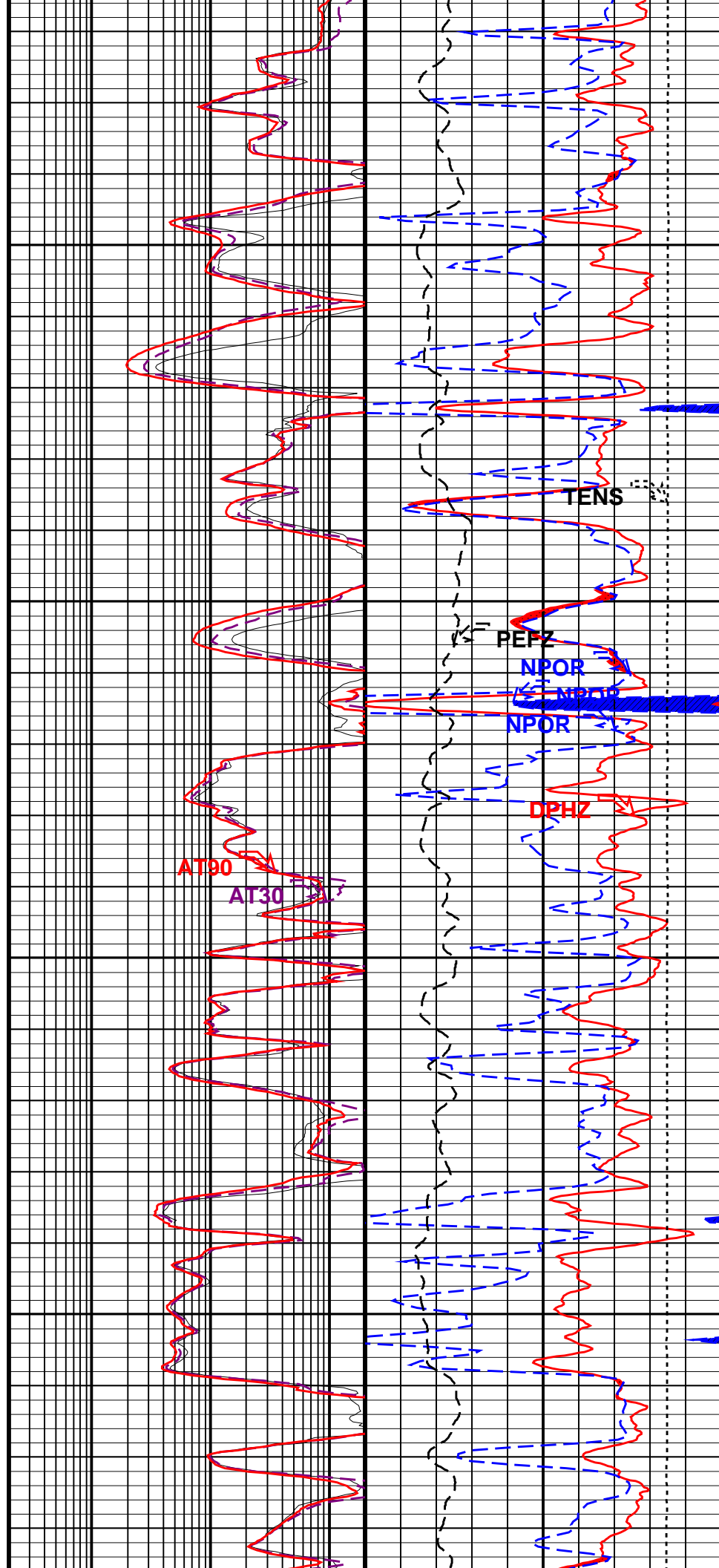


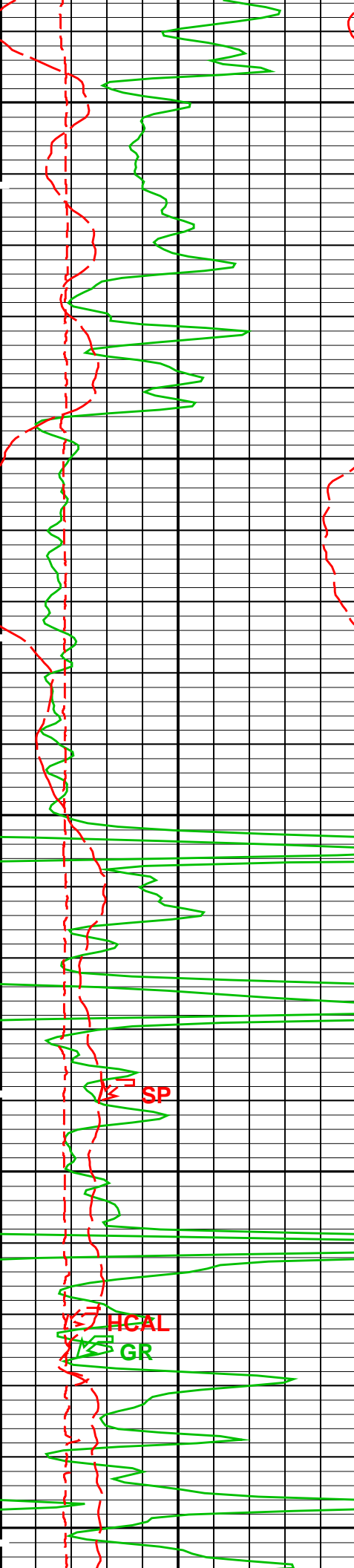




4700

4800

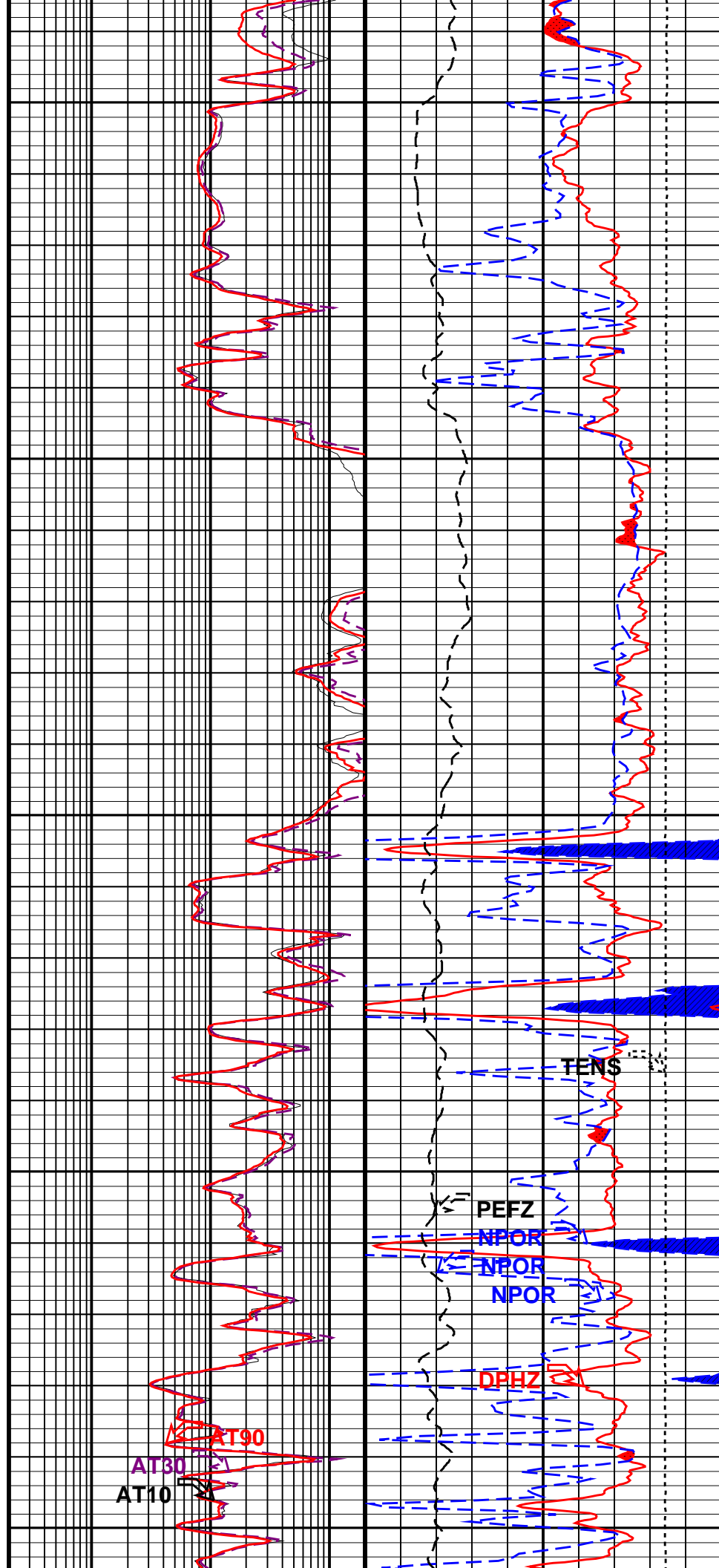


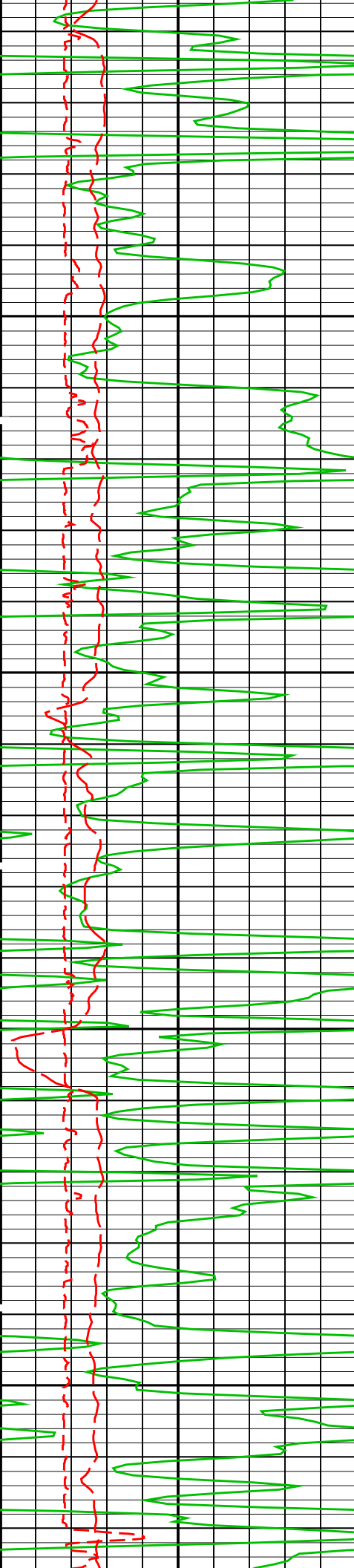


4900

5000

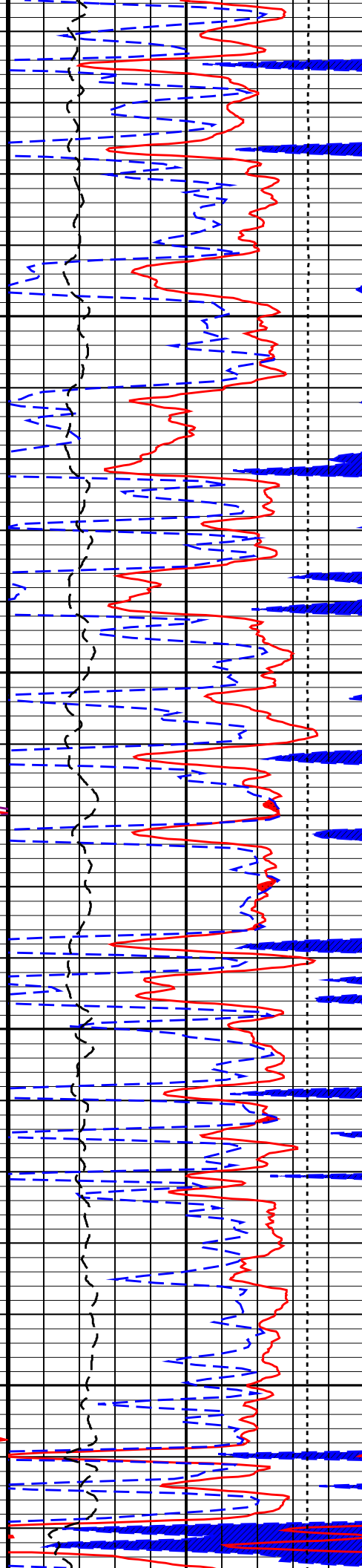
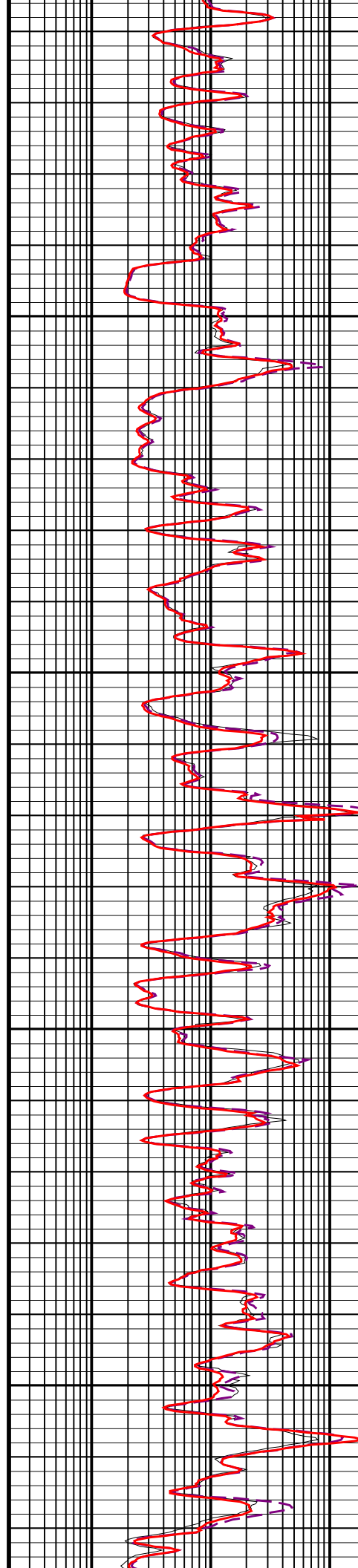
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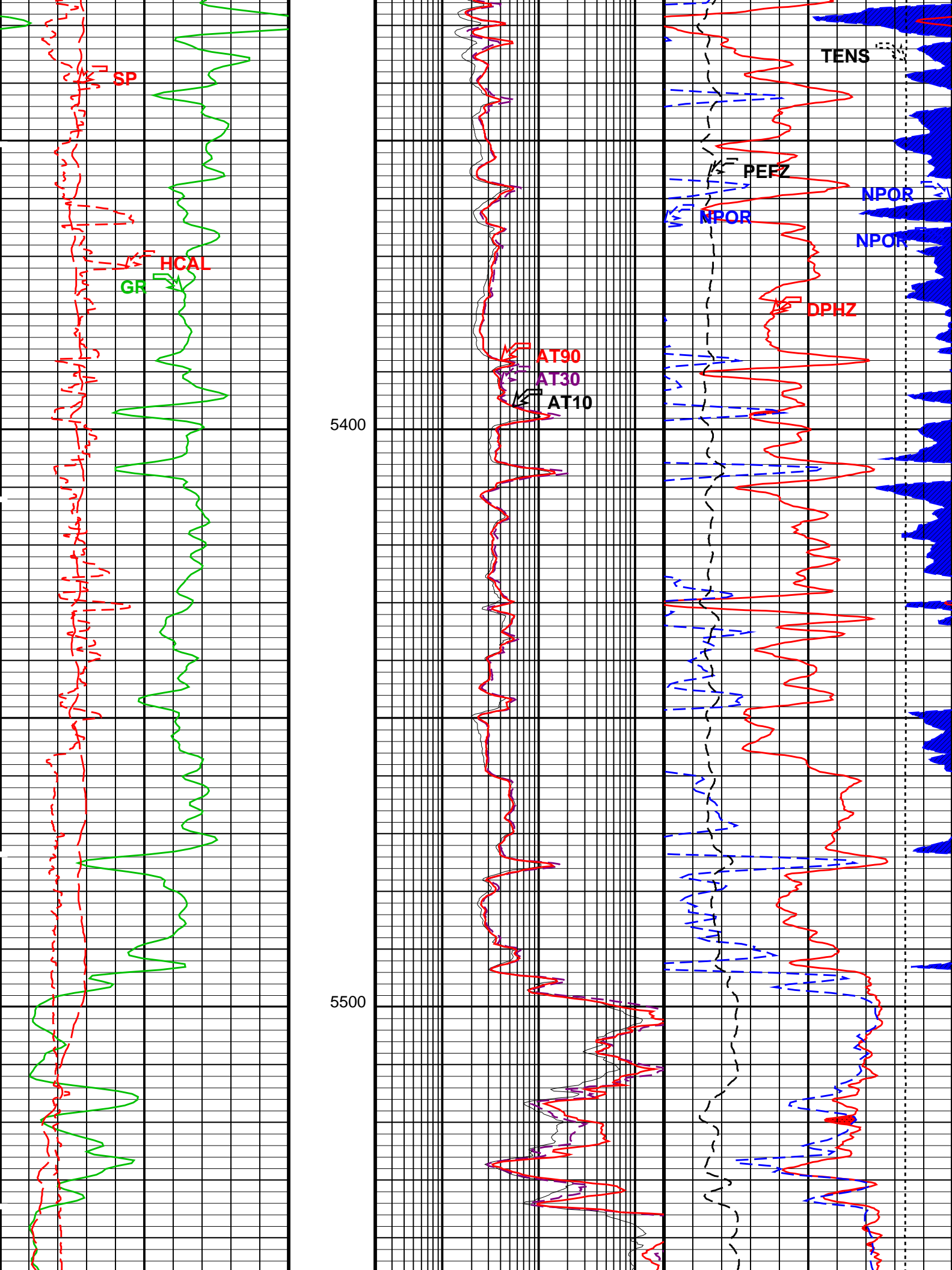


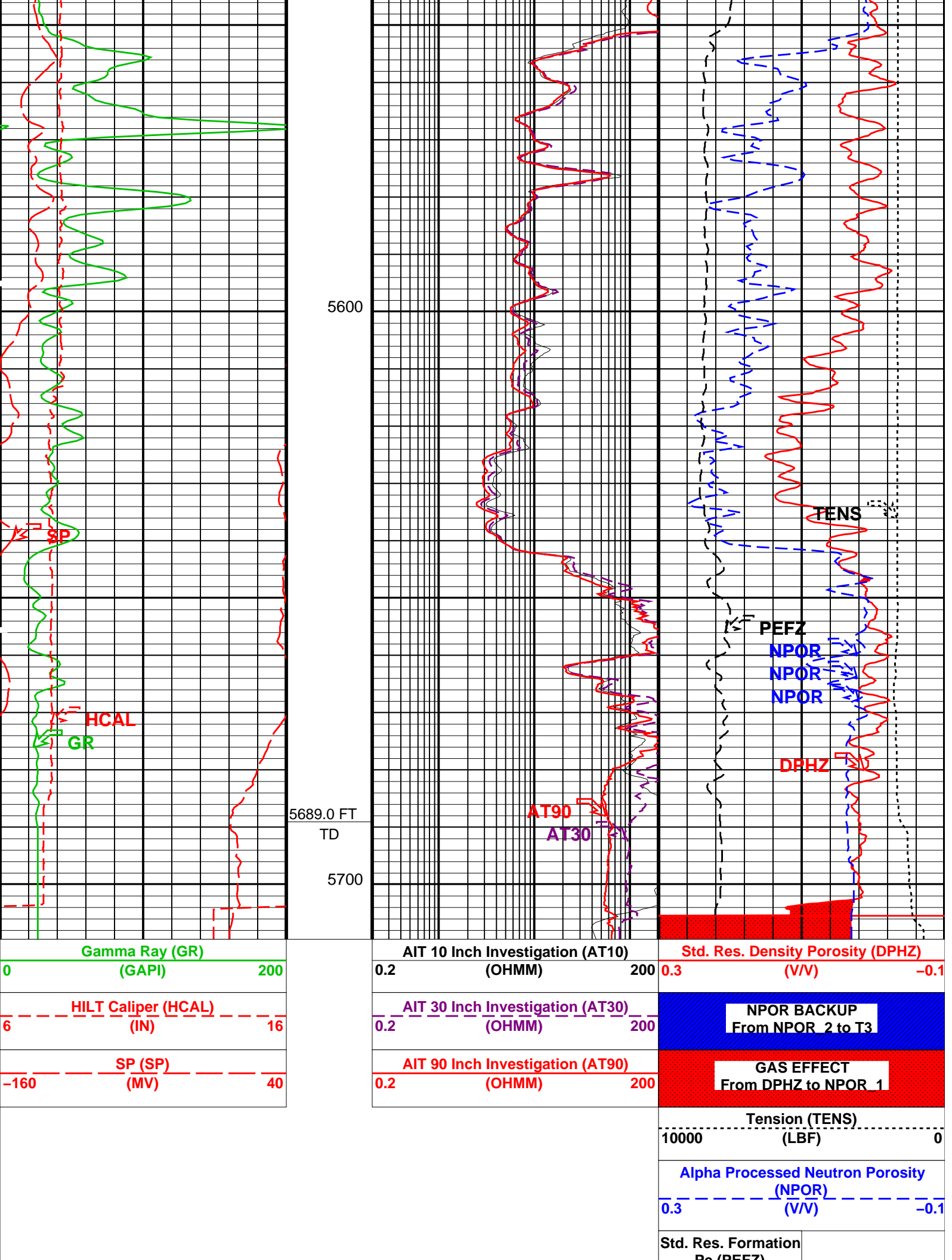


5200

5300







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	900	
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	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
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	
ASTA	Array Induction Tool Standoff	0.625	IN
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
AZRSV	Array Induction Response Set Version for Z Resolution	00.10.25.00	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	143	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	AITM_RESIST	
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
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	143	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	AITM_RESIST	
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	HiRes	
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	
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)	143	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	AITM_RESIST	
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)	143	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	AITM_RESIST	
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	5689.00	FT
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	8.625	IN
CWEI	Casing Weight	24.00	LB/F
DFD	Drilling Fluid Density	8.40	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
MST	Mud Sample Temperature	75.00	DEGF
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.7147	OHMM
TD	Total Depth	5689	FT

Format: COMBO Vertical Scale: 5" per 100' Graphics File Created: 10-Apr-2012 16:52

OP System Version: 18C0-147

AIT-M	18C0-147	HILTH-FTB	18C0-147
DTC-H	18C0-147		

Input DLIS Files

DEFAULT	MERGE_AIT_026L	FN:1	PRODUCER	10-Apr-2012 16:37	5709.5 FT	328.0 FT
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_032PUP	FN:28	PRODUCER	10-Apr-2012 16:52
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Schlumberger

COMBO HI RES 10" = 100'

MAXIS Field Log

Company: Vecta Oil & Gas Ltd Well: Little Bear 44-28

Input DLIS Files

DEFAULT	MERGE_AIT_026L	FN:1	PRODUCER	10-Apr-2012 16:37	5709.5 FT	328.0 FT
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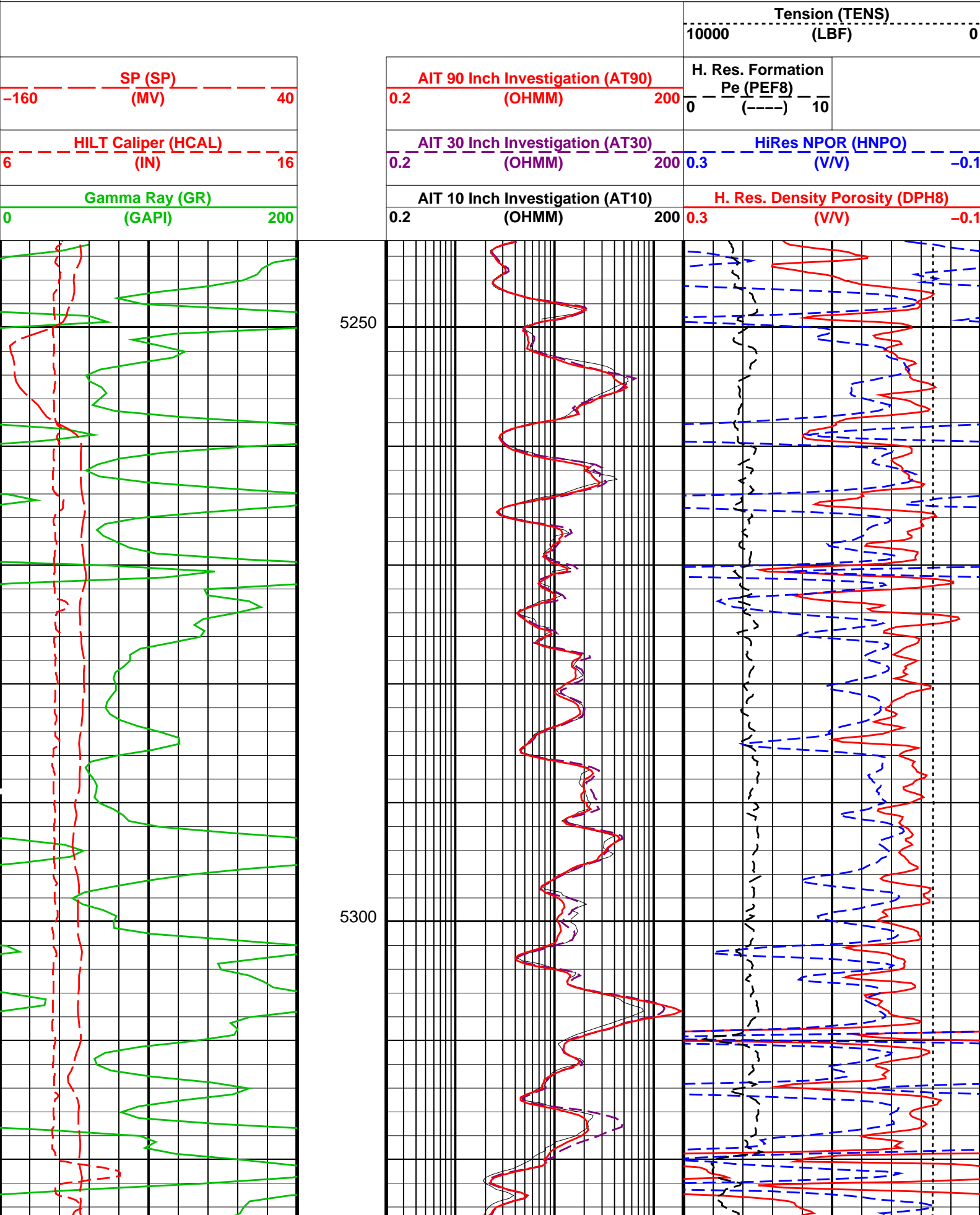
Output DLIS Files

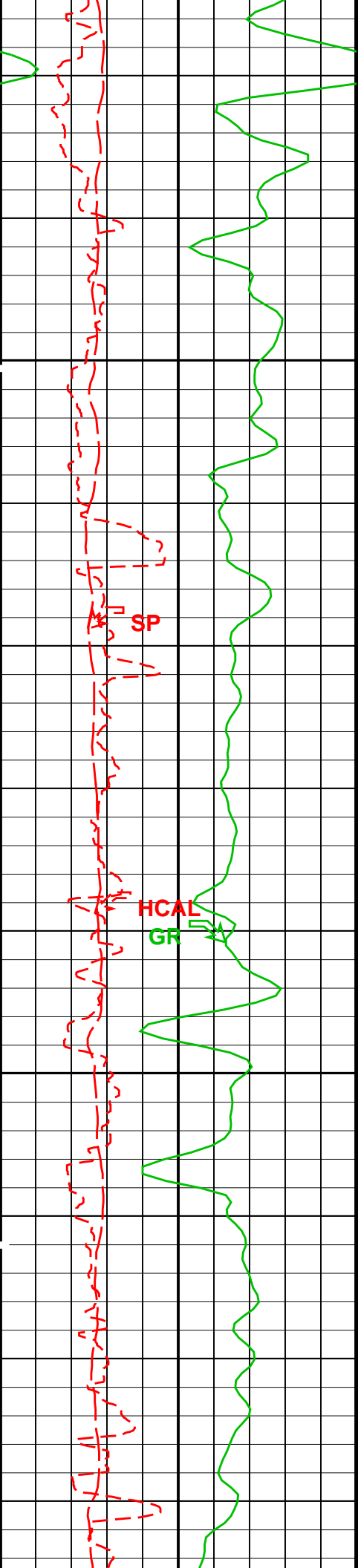
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OP System Version: 18C0-147

PIP SUMMARY

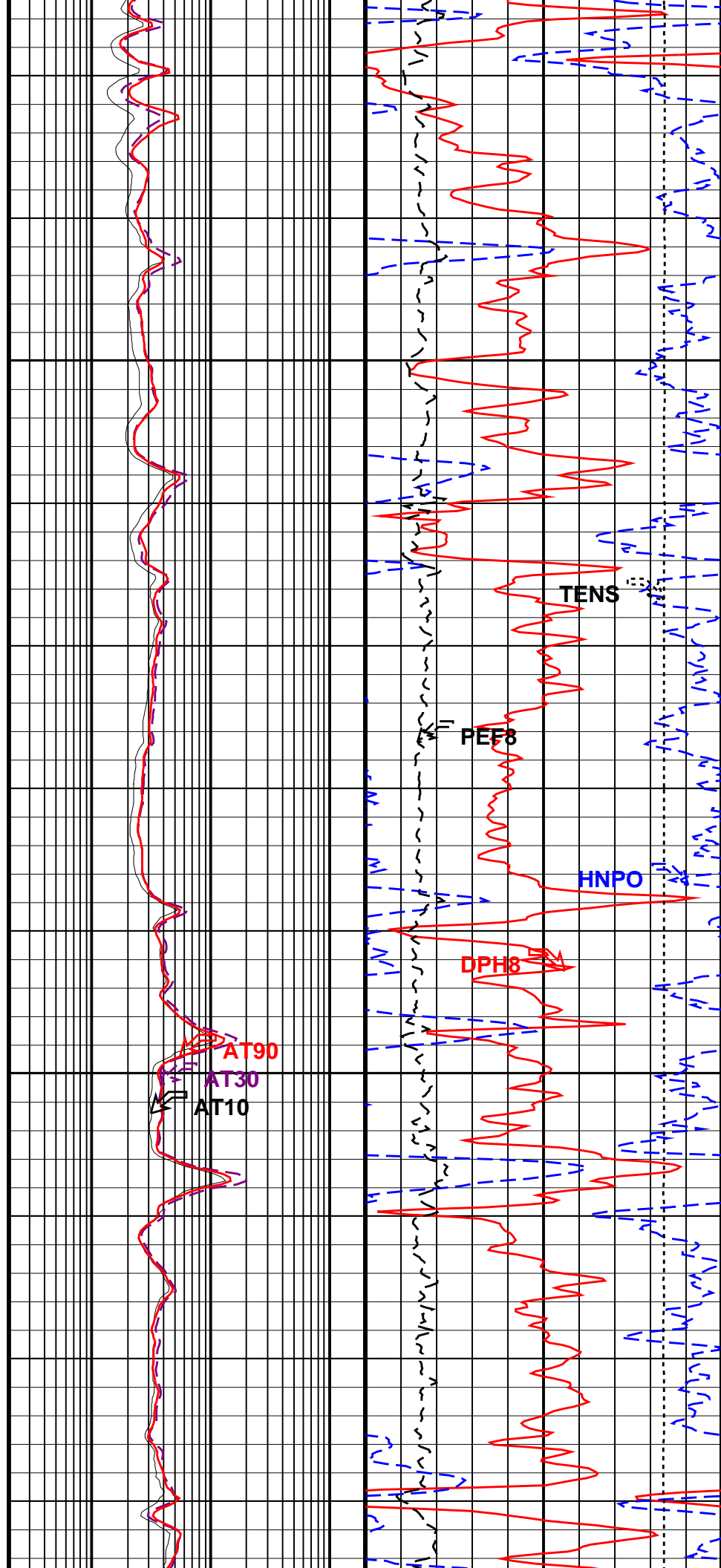
Time Mark Every 60 S

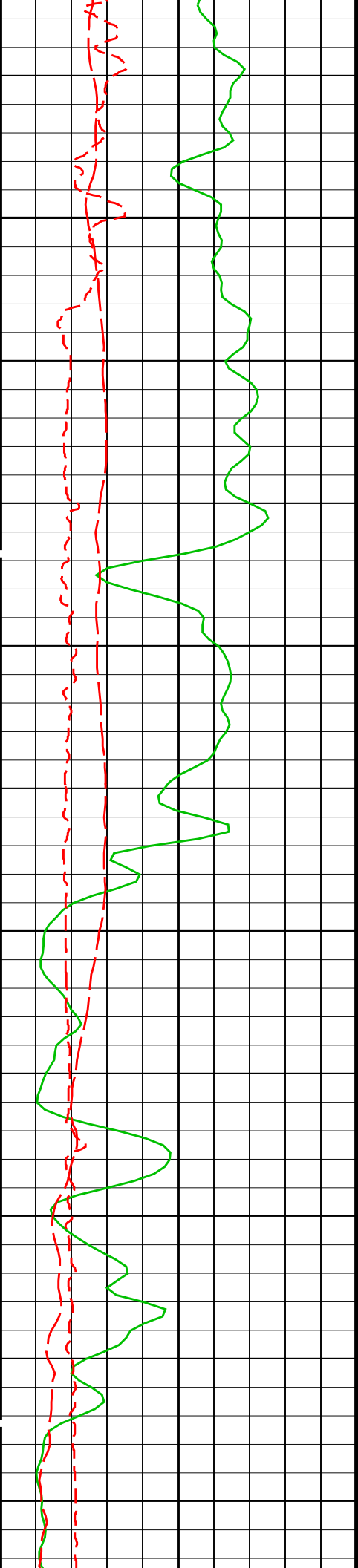




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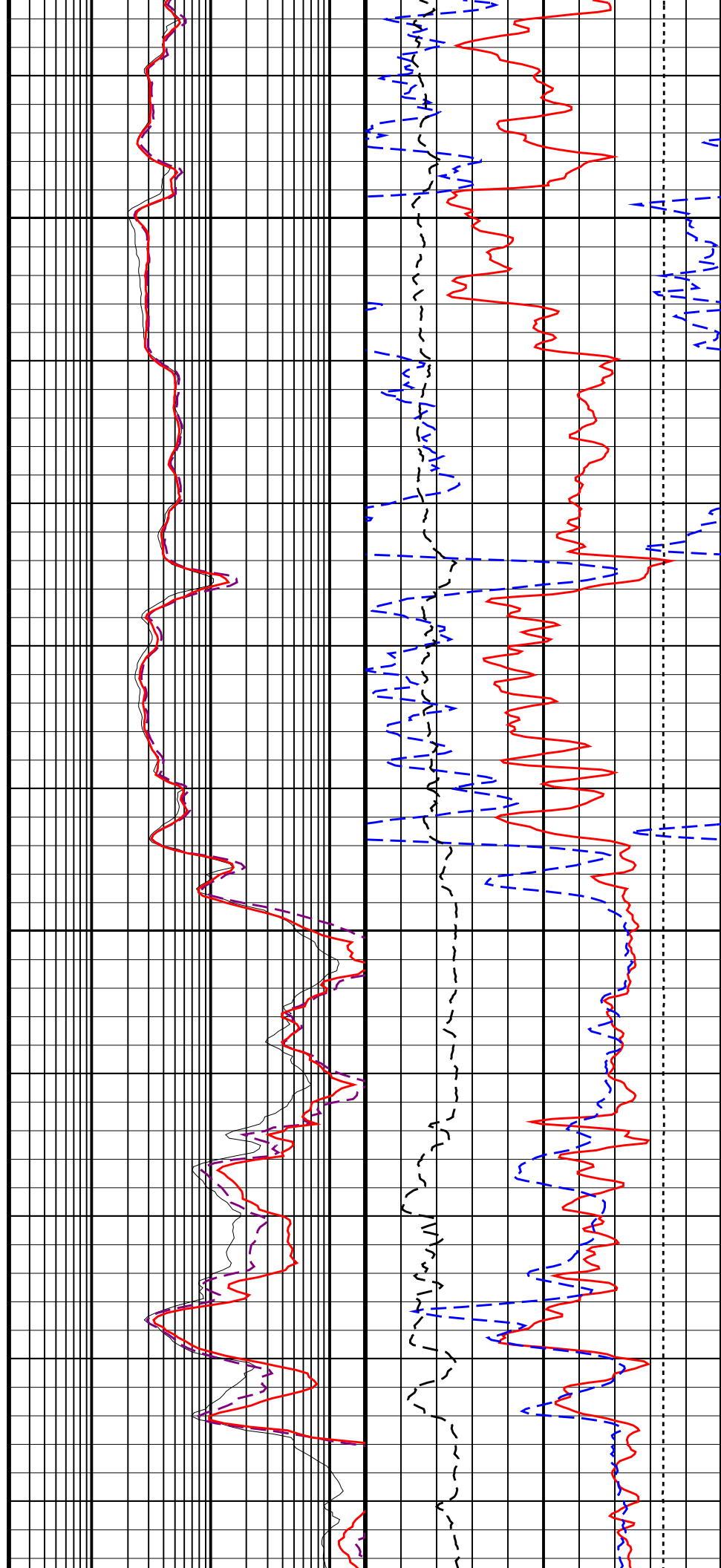
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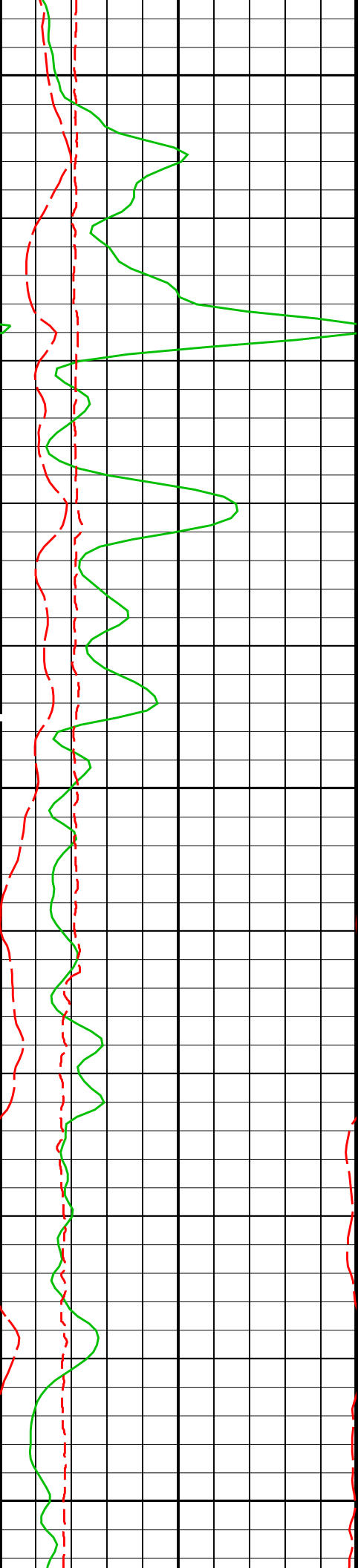




5450

5500

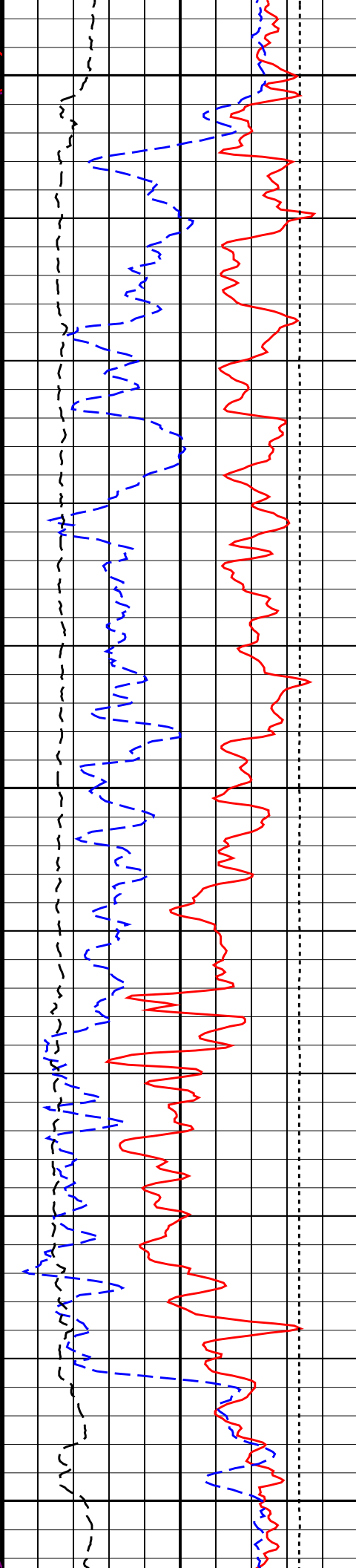
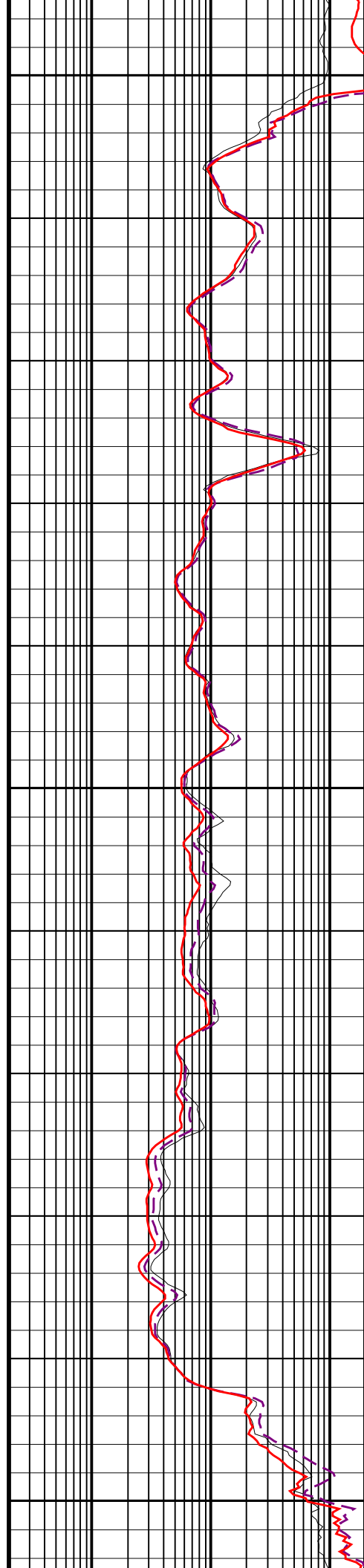


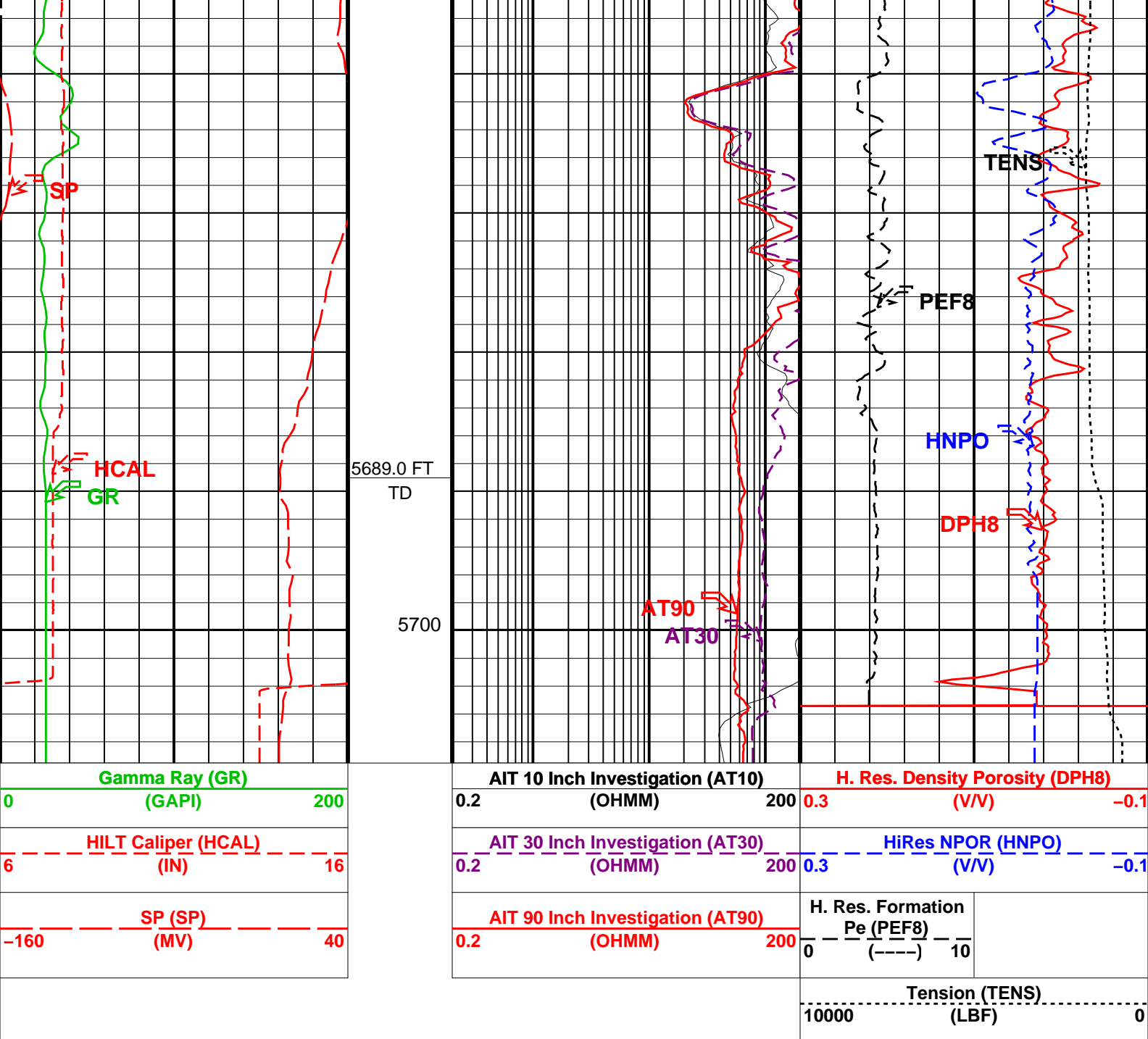


5550

5600

5650





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
AIT-M: Array Induction Tool - M		
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
ABHV	Array Induction Borehole Correction Code Version Number	900
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
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
ACSED	Array Induction Casing Shoe Estimated Depth	-50000 FT
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20
AIGS	Array Induction Select Akima Interpolation Gating	On
AMRF	Array Induction Mud Resistivity Factor	1
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
ASTA	Array Induction Tool Standoff	0.625 IN
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal

AULV	Array Induction User Level Control	Normal	
AZRSV	Array Induction Response Set Version for Z Resolution	00.10.25.00	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	143	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	AITM_RESIST	
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
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	143	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	AITM_RESIST	
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	HiRes	
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	
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)	143	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	AITM_RESIST	
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)	143	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	AITM_RESIST	
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	5689.00	FT
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	8.625	IN
CWEI	Casing Weight	24.00	LB/F
DFD	Drilling Fluid Density	8.40	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
MST	Mud Sample Temperature	75.00	DEGF

PP
RMFS
TD

Playback Processing
Resistivity of Mud Filtrate Sample
Total Depth

RECOMPUTE
0.7147
5689

OHMM
FT

Format: COMBO_HI_RES Vertical Scale: 10" per 100' Graphics File Created: 10-Apr-2012 16:52

OP System Version: 18C0-147

AIT-M
DTC-H

18C0-147
18C0-147

HILTH-FTB

18C0-147

Input DLIS Files

DEFAULT

MERGE_AIT_026L

FN:1

PRODUCER

10-Apr-2012 16:37

5709.5 FT

328.0 FT

Output DLIS Files

DEFAULT

AIT_TLD_MCFL_CNL_032PUP

FN:28

PRODUCER

10-Apr-2012 16:52

Schlumberger

REPEAT ANALYSIS

MAXIS Field Log

Company: Vecta Oil & Gas Ltd Well: Little Bear 44-28

Input DLIS Files

DEFAULT

AIT_TLD_MCFL_CNL_030PUP

FN:26

PRODUCER

10-Apr-2012 16:49

5718.0 FT

5218.5 FT

DEFAULT

MERGE_AIT_026L

FN:1

PRODUCER

10-Apr-2012 16:37

5709.5 FT

328.0 FT

Output DLIS Files

DEFAULT

AIT_TLD_MCFL_CNL_032PUP

FN:28

PRODUCER

10-Apr-2012 16:52

OP System Version: 18C0-147

AIT-M
DTC-H

18C0-147
18C0-147

HILTH-FTB

18C0-147

PIP SUMMARY

Time Mark Every 60 S

PEFZ_REP Curve (PEFZ_REP)

0 (----) 10

GAS EFFECT
From DPHZ to NPOR_1

NPOR BACKUP
From NPOR_2 to T3

TENS_REP Curve (TENS_REP)

10000 (LBF) 0

NPOR_2_REP Curve (NPOR_REP)

0.7 (V/V) 0.3

NPOR_1_REP Curve (NPOR_REP)

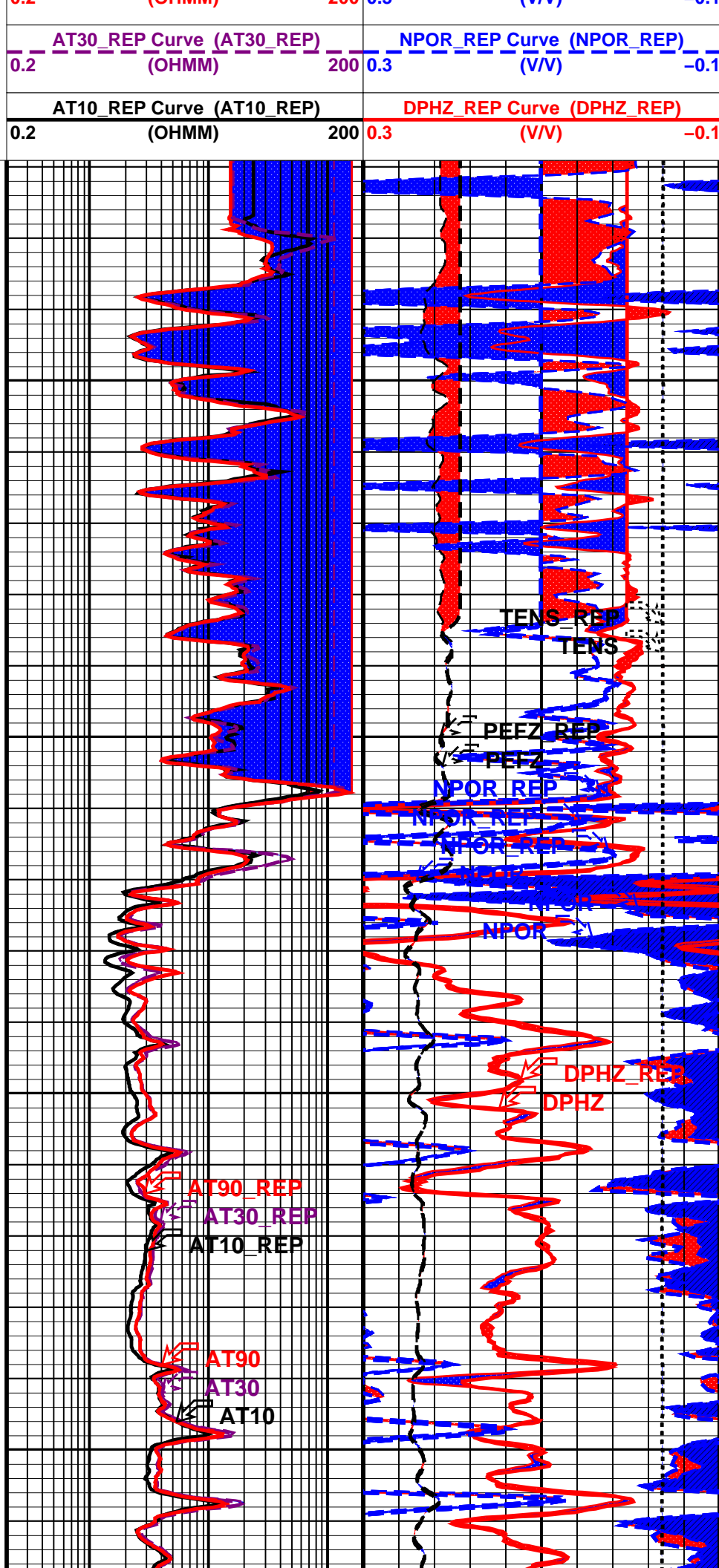
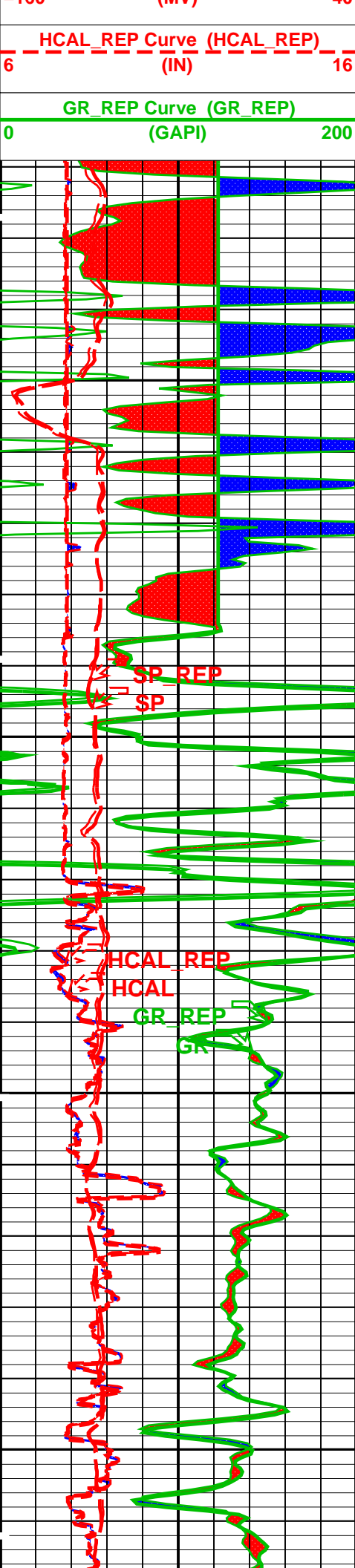
0.3 (V/V) -0.1

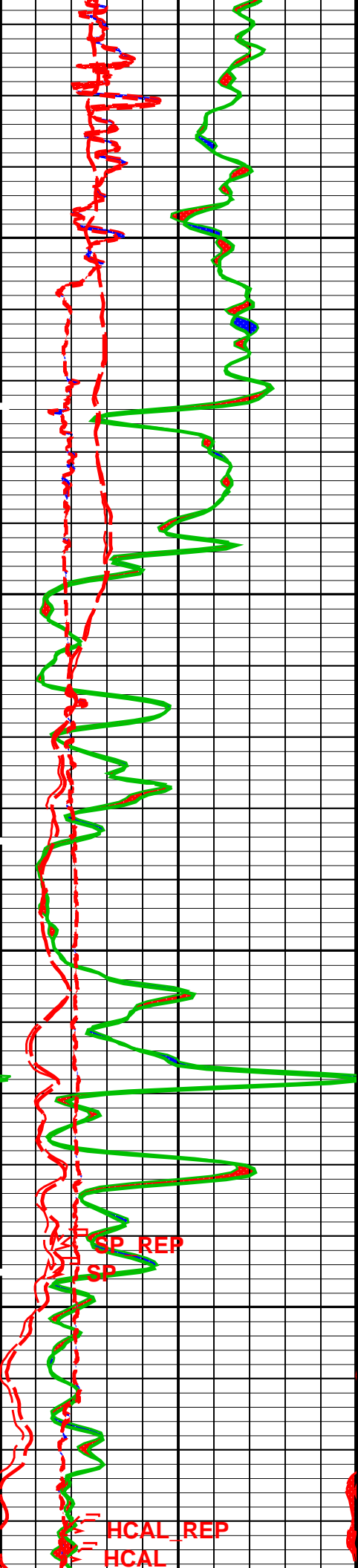
SP_REP Curve (SP_REP)

-160 (MV) 40

AT90_REP Curve (AT90_REP)

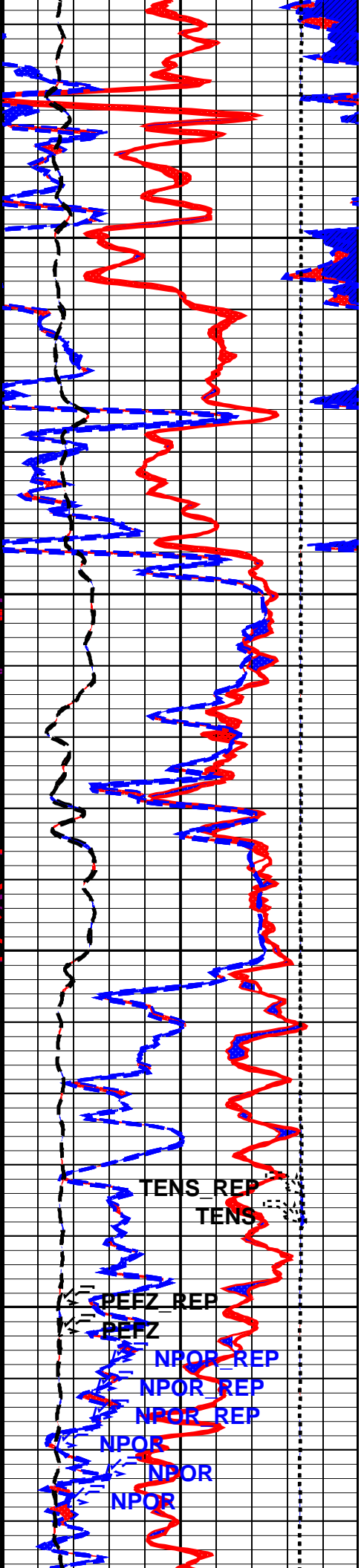
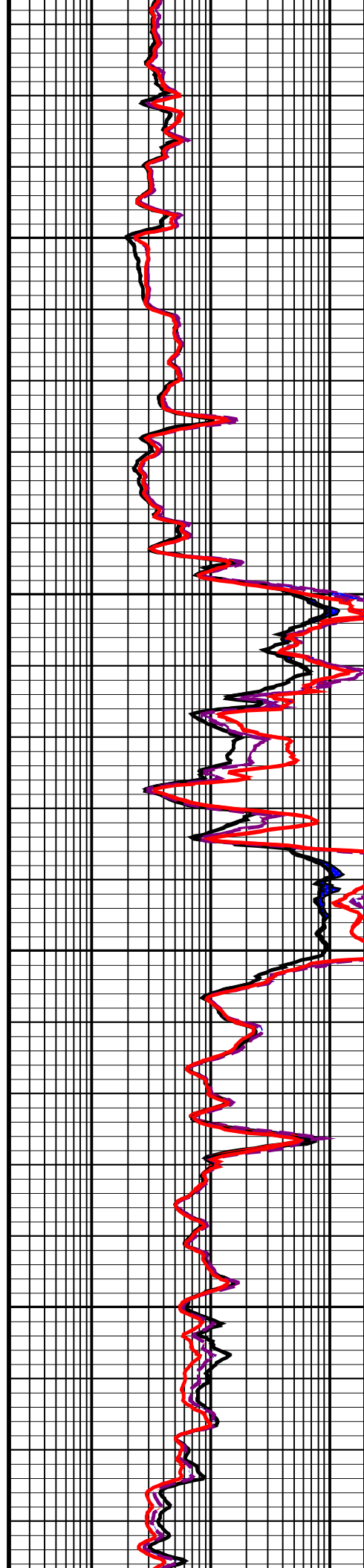
0.2 (OHMM) 200

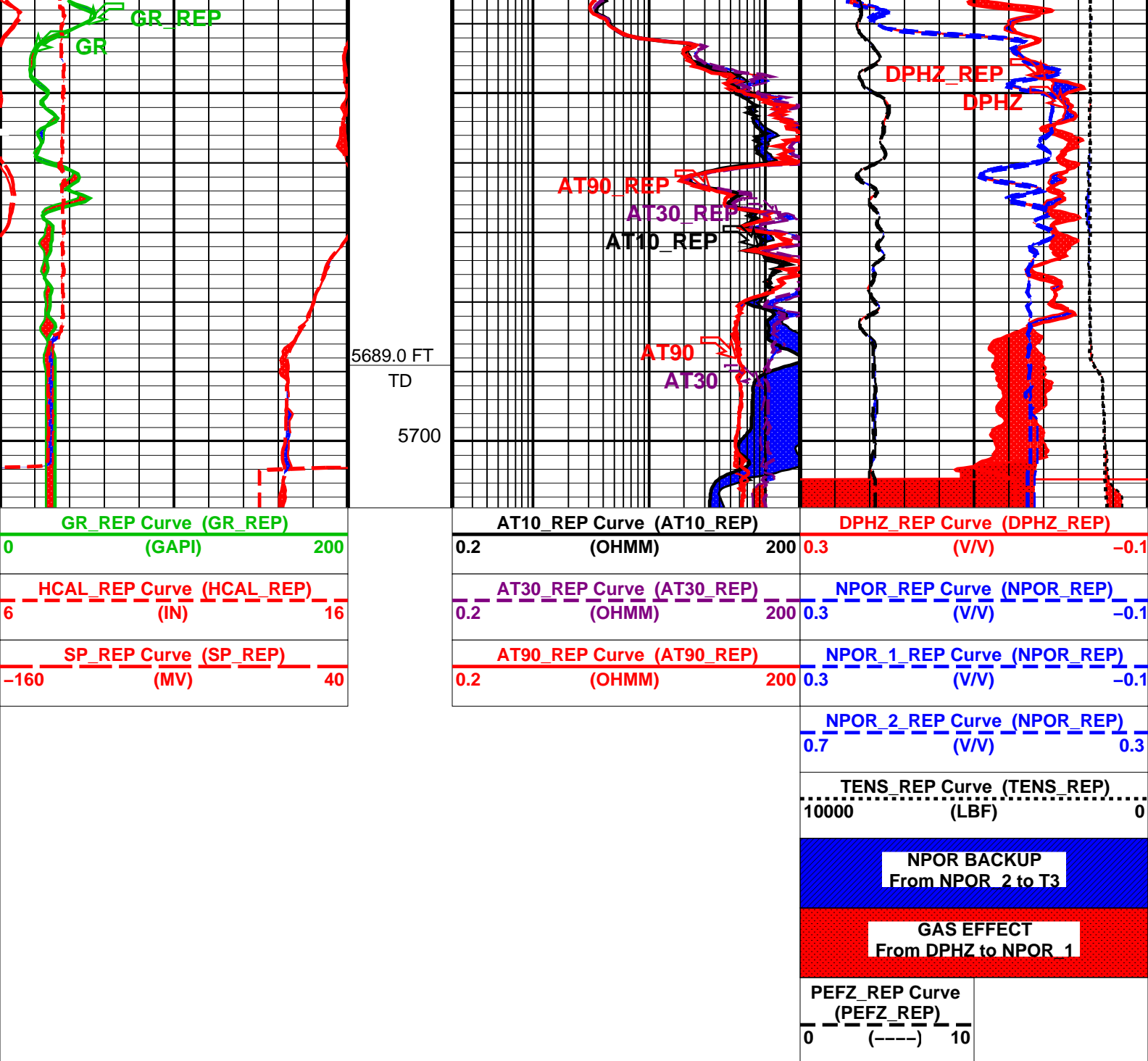




5500

5600





Parameters

DLIS Name	Description	Value	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	900	
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	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
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	
ASTA	Array Induction Tool Standoff	0.625	IN
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	

ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
AZRSV	Array Induction Response Set Version for Z Resolution	00.10.25.00	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	143	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	AITM_RESIST	
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
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	143	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	AITM_RESIST	
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	HiRes	
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	
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)	143	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	AITM_RESIST	
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)	143	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	AITM_RESIST	
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	5689.00	FT
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	8.625	IN
CWEI	Casing Weight	24.00	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT
ELEV	Fluid Level	300.00	FT

FLV	Fluid Level	500.00	FT
MST	Mud Sample Temperature	75.00	DEGF
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.7147	OHMM
TD	Total Depth	5689	FT

Format: COMBO_REP Vertical Scale: 5" per 100' Graphics File Created: 10-Apr-2012 16:52

OP System Version: 18C0-147

AIT-M 18C0-147 HILTH-FTB 18C0-147
DTC-H 18C0-147

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_030PUP	FN:26	PRODUCER	10-Apr-2012 16:49	5718.0 FT	5218.5 FT
DEFAULT	MERGE_AIT_026L	FN:1	PRODUCER	10-Apr-2012 16:37	5709.5 FT	328.0 FT

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_032PUP	FN:28	PRODUCER	10-Apr-2012 16:52
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BEFORE CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Array Induction Tool – M Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase							
Master: 26-Jan-2012 16:11 Before: 10-Apr-2012 6:39							
Thru Cal Magnitude – 0	0	0.6131	0.6134	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.256	1.257	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6230	0.6234	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.7038	0.7042	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.315	1.316	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.911	1.912	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.906	1.908	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.361	1.362	N/A	N/A	N/A	V
Thru Cal Phase – 0	0	183.8	183.7	N/A	N/A	N/A	DEG
Thru Cal Phase – 1	0	182.7	182.6	N/A	N/A	N/A	DEG
Thru Cal Phase – 2	0	179.0	178.9	N/A	N/A	N/A	DEG
Thru Cal Phase – 3	0	178.2	178.1	N/A	N/A	N/A	DEG
Thru Cal Phase – 4	0	172.0	171.9	N/A	N/A	N/A	DEG
Thru Cal Phase – 5	0	170.3	170.2	N/A	N/A	N/A	DEG
Thru Cal Phase – 6	0	170.3	170.2	N/A	N/A	N/A	DEG
Thru Cal Phase – 7	0	169.6	169.5	N/A	N/A	N/A	DEG
Array Induction Tool – M Wellsite Calibration – Electronics Calibration Check – Auxiliary							
Master: 26-Jan-2012 16:11 Before: 10-Apr-2012 6:39							
Array Induction SPA Plus	991.0	991.5	991.6	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	-0.2500	-0.2198	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9170	0.9184	0.9184	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	-0.0002500	-0.0002217	N/A	N/A	N/A	V
Array Induction Tool – M Wellsite Calibration – Test Loop Gain Correction							
Master: 26-Jan-2012 16:11							
Test Loop Gain Correctio – 0	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	1.016	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 3	0	1.012	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 4	0	0.9946	N/A	N/A	N/A	N/A	V

Test Loop Gain Correctio – 5	0	0.9890	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 6	0	0.9984	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 7	0	1.006	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 0	0	0.4704	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 1	0	0.6871	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 2	0	0.1215	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 3	0	-0.06941	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 4	0	0.1235	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 5	0	-0.1023	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 6	0	0.2848	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 7	0	-0.005901	N/A	N/A	N/A	N/A	DEG

Array Induction Tool – M Wellsite Calibration – Sonde Error Correction

Master: 26-Jan-2012 16:11

R Sonde Error Correction – 0	0	-93.39	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	158.2	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	116.5	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	63.04	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	27.36	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	13.24	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	9.876	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	-1.618	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	-7.309	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	-334.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	10.73	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	-58.01	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	-12.80	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	-17.35	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	-3.765	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	4.594	N/A	N/A	N/A	N/A	MM/M

Array Induction Tool – M Wellsite Calibration – Mud Gain Correction

Master: 26-Jan-2012 16:11

Coarse – Mag, Real, Imag – 0	0	0.8718	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 1	0	0.8718	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 2	0	0.8718	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 0	0	0.8719	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 1	0	0.8719	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 2	0	0.8719	N/A	N/A	N/A	N/A

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 10-Apr-2012 12:15

EDTC Z-Axis Acceleration	32.19	N/A	32.00	N/A	N/A	N/A	F/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 10-Apr-2012 12:12

Gamma Ray (Jig – Bkg)	136.3	N/A	136.3	N/A	N/A	12.40	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Array Induction Tool – M / Equipment Identification

Primary Equipment:

Rm/SP Bottom Nose

Array Induction Sonde

AMRM – A

AMIS – A

39





Auxiliary Equipment:

Array Induction Tool – M Wellsite Calibration							
Electronics Calibration Check – Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	0.6131		0.6100	183.8		197.0
	Before	0.6134			183.7		
1	Master	1.256		1.270	182.7		196.0
	Before	1.257			182.6		
2	Master	0.6230		0.6200	179.0		192.0
	Before	0.6234			178.9		
3	Master	0.7038		0.7000	178.2		191.0
	Before	0.7042			178.1		
	Master	1.315			172.0		

4	Before	1.316		1.340	171.9		185.0
5	Master	1.911		1.960	170.3		182.0
	Before	1.912			170.2		
6	Master	1.906		1.960	170.3		181.0
	Before	1.908			170.2		
7	Master	1.361		1.410	169.6		175.0
	Before	1.362			169.5		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 26-Jan-2012 16:11				Before: 10-Apr-2012 6:39			

Array Induction Tool – M Wellsite Calibration							
Electronics Calibration Check – Auxiliary							
Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master			991.5	Master			-0.2500
Before			991.6	Before			-0.2198
941.0 (Minimum)			991.0 (Nominal)	1040 (Maximum)			
-50.00 (Minimum)			0 (Nominal)	50.00 (Maximum)			
Phase	Array Induction Temperature Plus V		Value	Phase	Array Induction Temperature Zero V		Value
Master			0.9184	Master			-0.0002500
Before			0.9184	Before			-0.0002217
0.8710 (Minimum)			0.9170 (Nominal)	0.9630 (Maximum)			
-0.05000 (Minimum)			0 (Nominal)	0.05000 (Maximum)			
Master: 26-Jan-2012 16:11				Before: 10-Apr-2012 6:39			

Array Induction Tool – M Wellsite Calibration							
Test Loop Gain Correction							
Idx	Value	Test Loop Gain Correction Magnitude V			Value	Test Loop Gain Correction Phase DEG	
0	1.014				0.4704		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.016				0.6871		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
2	1.014				0.1215		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
3	1.012				-0.06941		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
4	0.9946				0.1235		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
5	0.9890				-0.1023		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
6	0.9984				0.2848		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
7	1.006				-0.005901		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
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Array Induction Tool – M Wellsite Calibration						
Sonde Error Correction						
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M
0	-93.39				-7.309	
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)	-2250 (Minimum)	0 (Nominal) 2250 (Maximum)
1	158.2				-334.4	

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Enhanced DTS Cartridge / Equipment Identification	
Primary Equipment:	
EDTC Gamma Ray Detector	EDTG – A/B
Enhanced DTS Cartridge	EDTC – B
Auxiliary Equipment:	
EDTC Housing	EDTH – B

Before: 10-Apr-2012 12:15

Before: 10-Apr-2012 12:12

Company: Vecta Oil & Gas Ltd

Schlumberger

Well: Little Bear 44–28

Field: Wildcat

County: Cheyenne

State: Colorado

Platform Express
Triple Combo