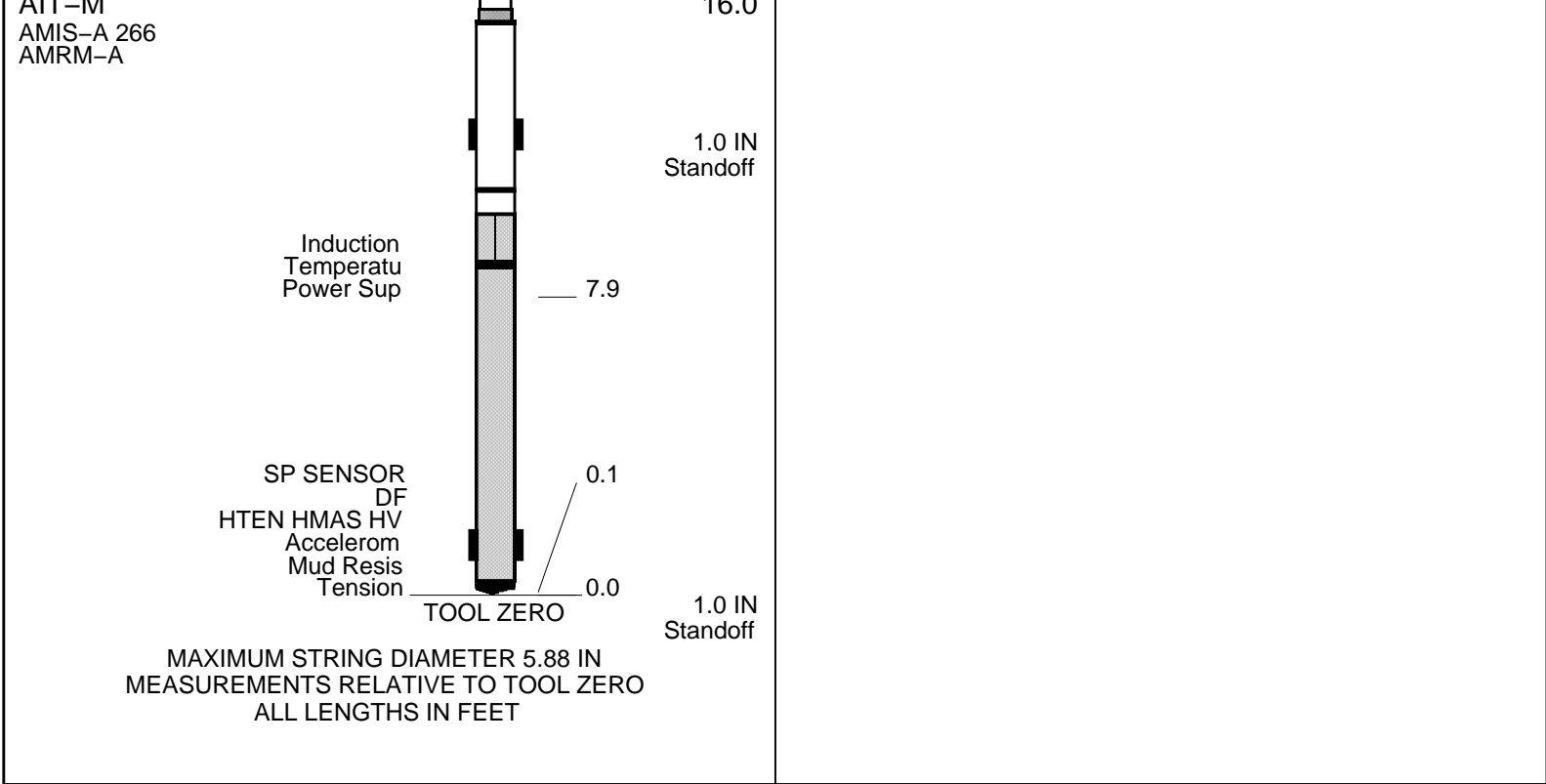


[illegible]



Schlumberger

MAIN PASS

MAXIS Field Log

Company: ORION ENERGY PARTNERS Well: KOKOPELLI FED 18-213D

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_009LUP	FN:12	PRODUCER	04-Oct-2008 14:03	7450.5 FT	175.0 FT
RTB	AIT_TLD_MCFL_CNL_009LUP	FN:13	PRODUCER	04-Oct-2008 14:04	7450.5 FT	175.0 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 2725.59 F3

Cement Volume = 1923.27 F3 (assuming 4.50 IN casing O.D.)

Computed from 7439.0 FT to 175.0 FT using data channel(s) HCAL

OP System Version: 16C0-147

MCM

AIT-M	16C0-147	HILTH-FTB	SRPC-3590-MAR_2008_OP16
DTC-H	16C0-147		

PIP SUMMARY

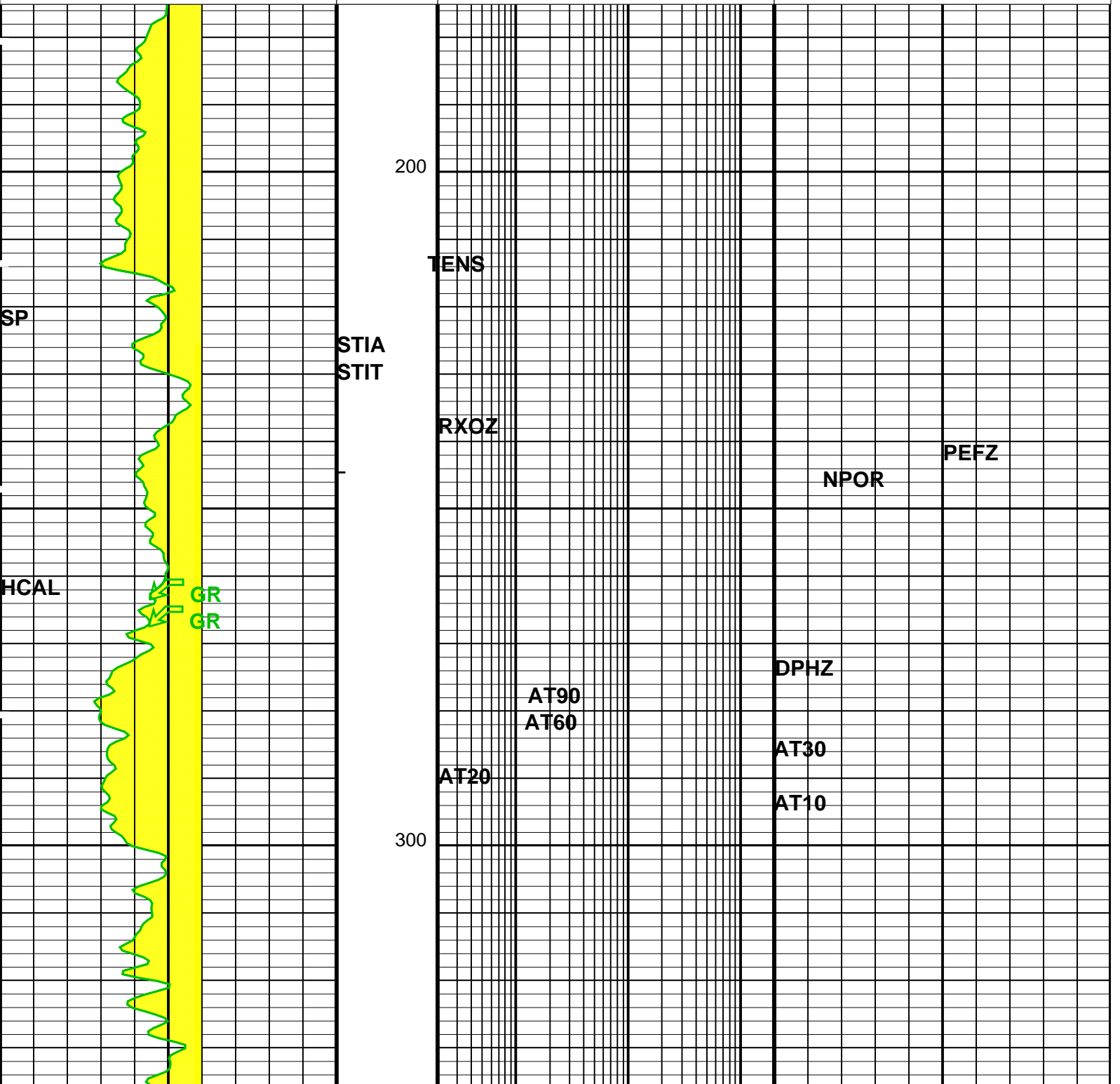
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
- └ Integrated Cement Volume Minor Pip Every 10 F3
- └ Integrated Cement Volume Major Pip Every 100 F3

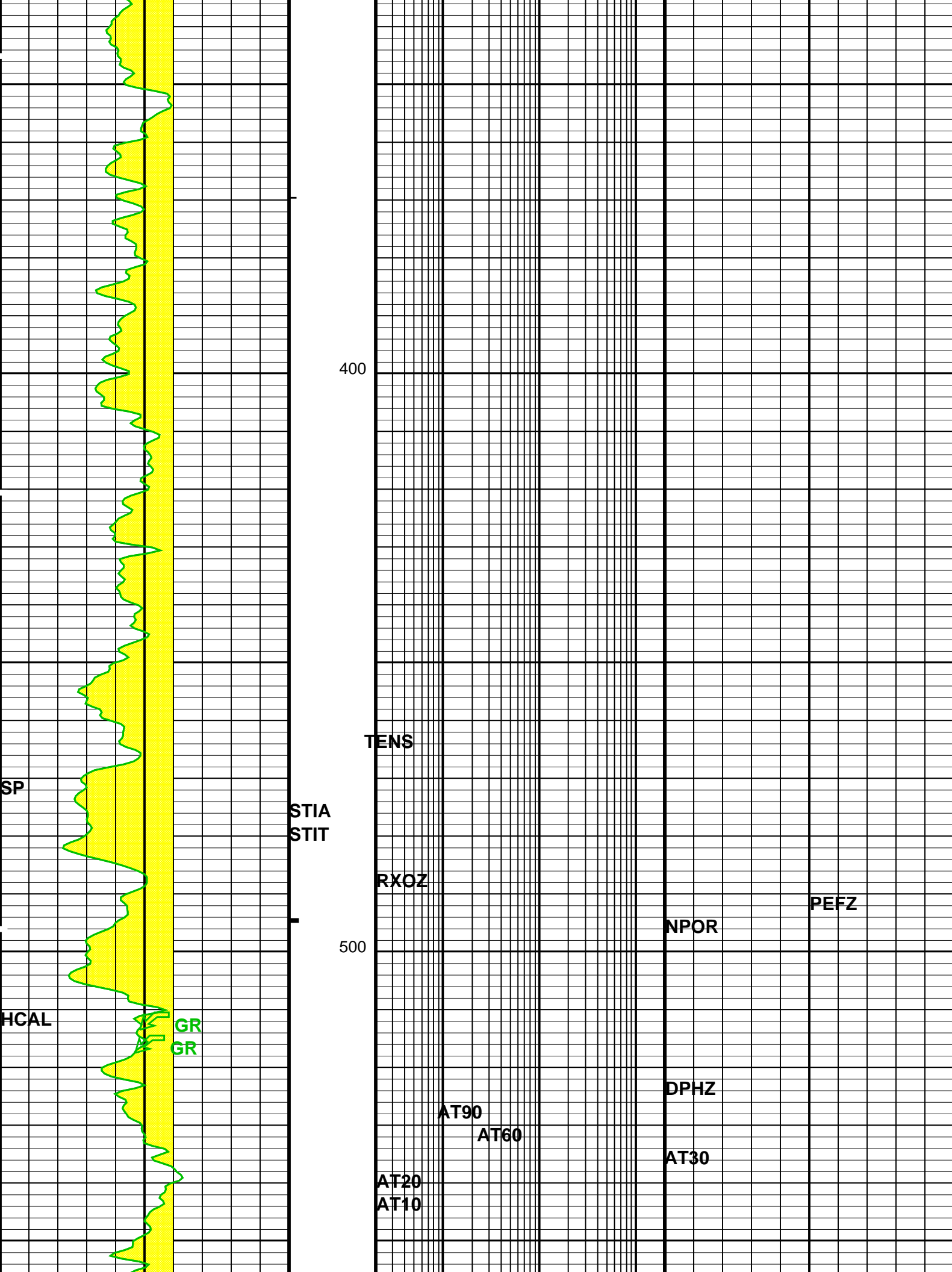
Time Mark Every 60 S

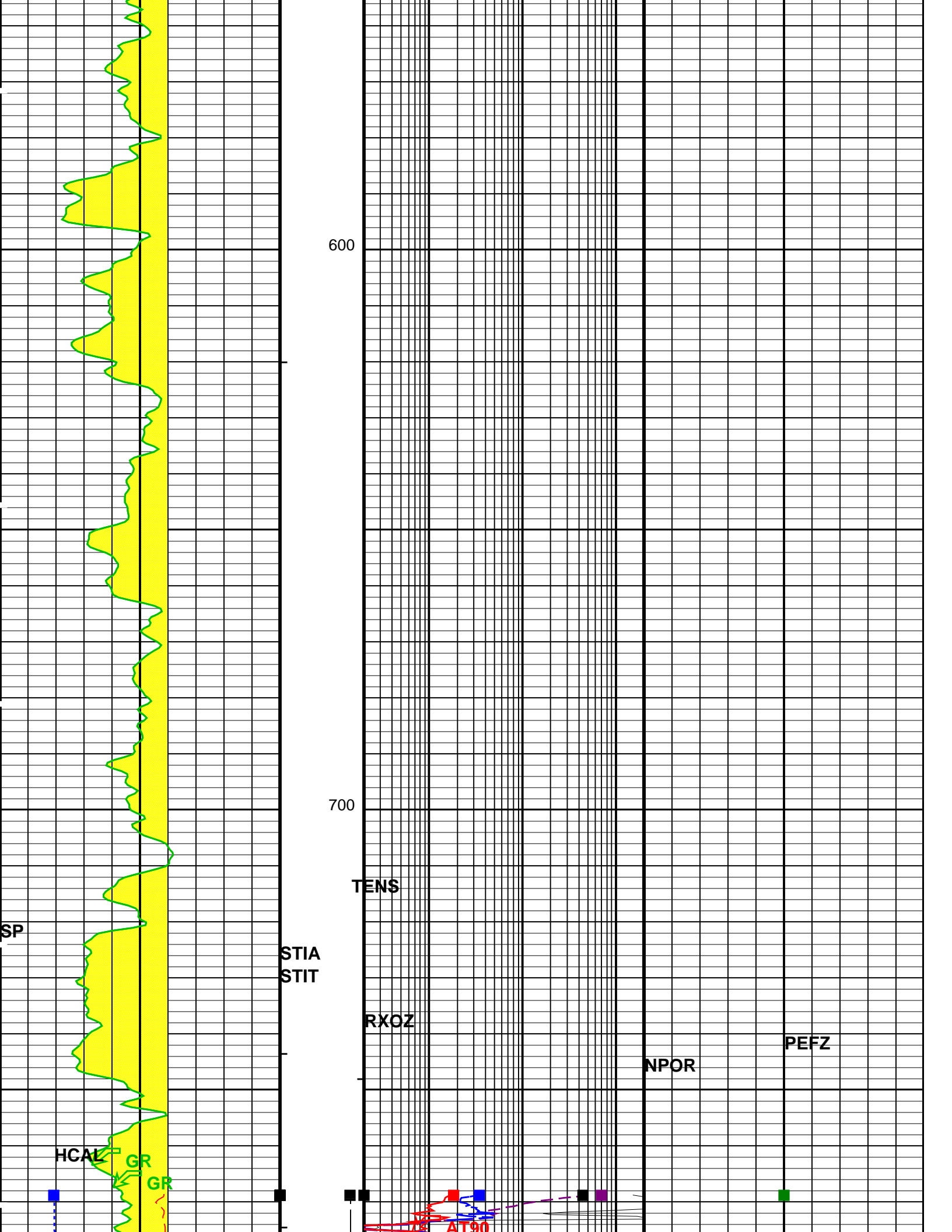
GAMMA RAY < 90
From GR to
SpareConstant

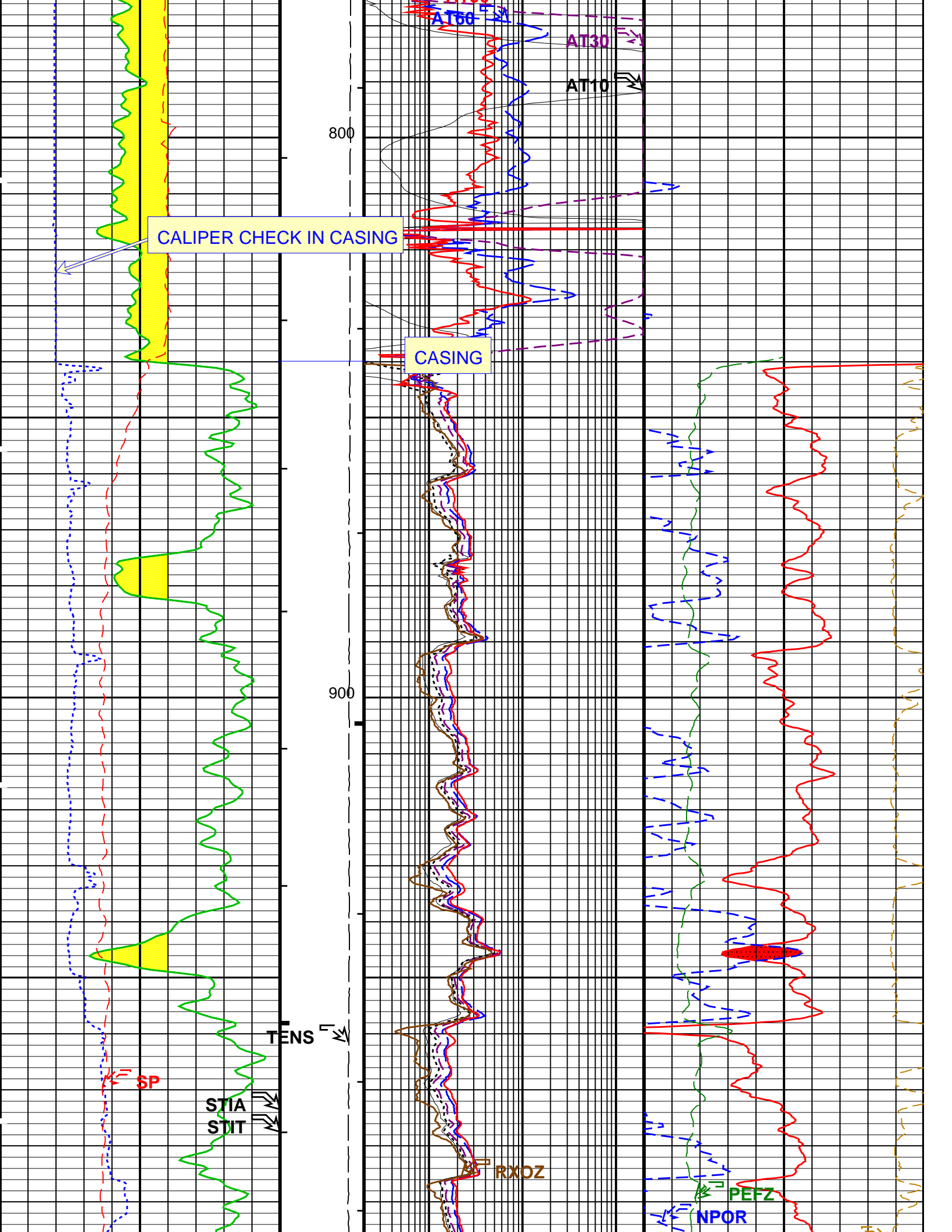
Std. Res. Invaded Zone Resistivity
(RXOZ)
2 (OHMM) 2000

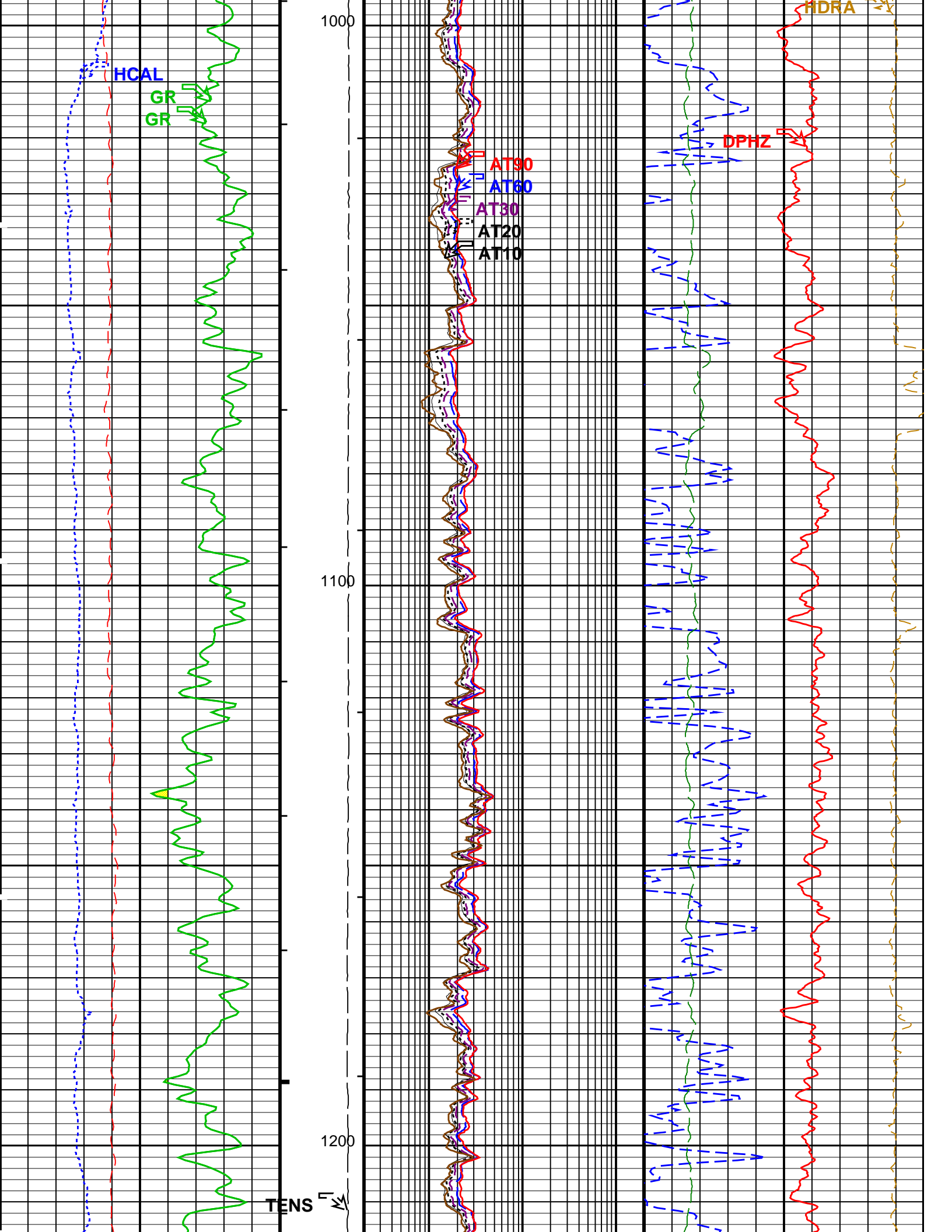
Tool/Tot. Drag From STIA to T1		AIT 90 Inch Investigation (AT90) 2 (OHMM) 2000			
GR Backup From LHT1 to GR_1		AIT 60 Inch Investigation (AT60) 2 (OHMM) 2000		Alpha Processed Neutron Porosity (NPOR) 0.3 (V/V) -0.1	
HILT Caliper (HCAL) (IN) 6 16		AIT 30 Inch Investigation (AT30) 2 (OHMM) 2000		Std. Res. Formation Pe (PEFZ) 0 (----) 10	Density Correction (HDRA) (G/C3) -0.2 0.05
Gamma Ray (GR) (GAPI) 0 150		AIT 20 Inch Investigation (AT20) 2 (OHMM) 2000		Gas From DPHZ to NPOR	
SP (SP) (MV) -80 20		AIT 10 Inch Investigation (AT10) 2 (OHMM) 2000		Std. Res. Density Porosity (DPHZ) (V/V) 0.3 -0.1	
Tension (TENS) (LBF) 7500 0					

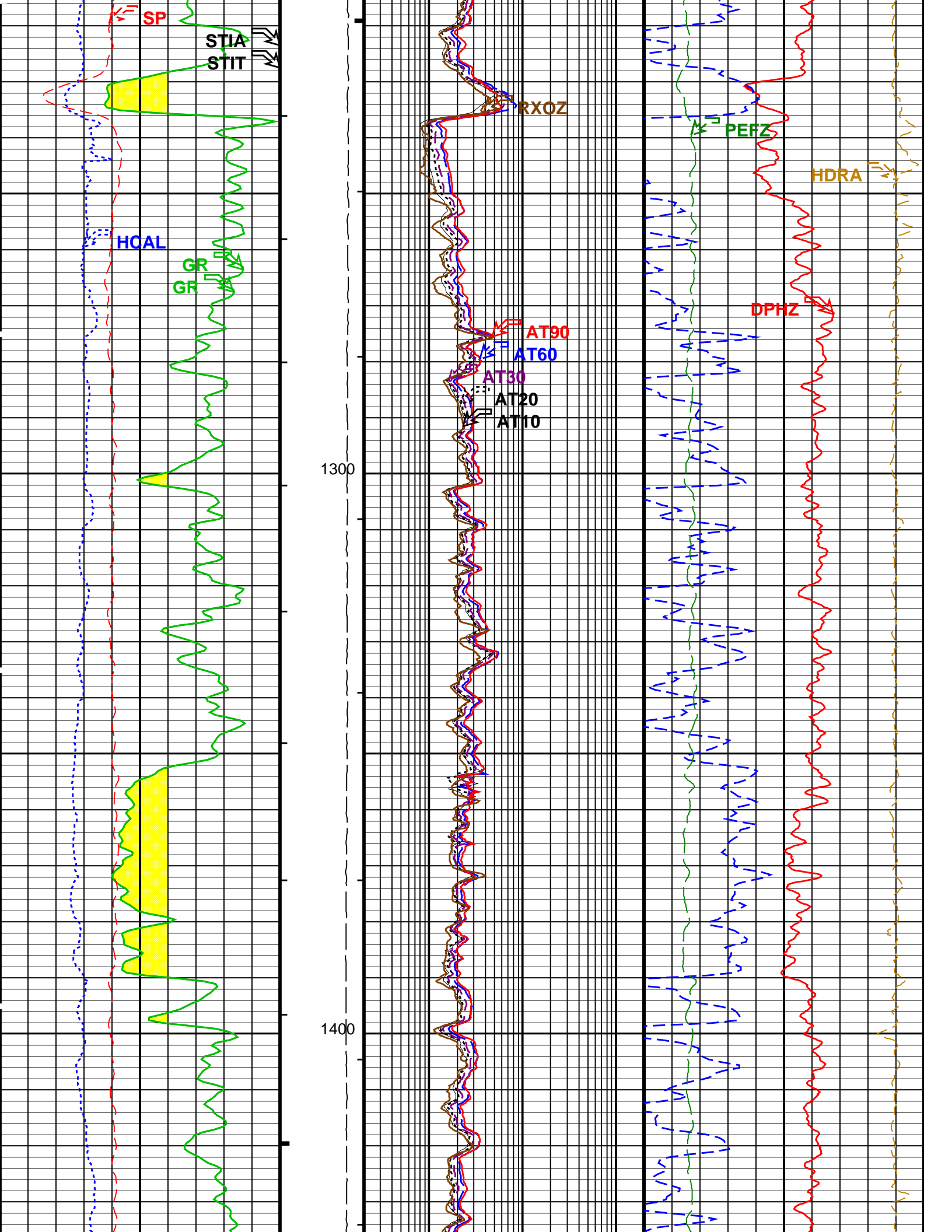


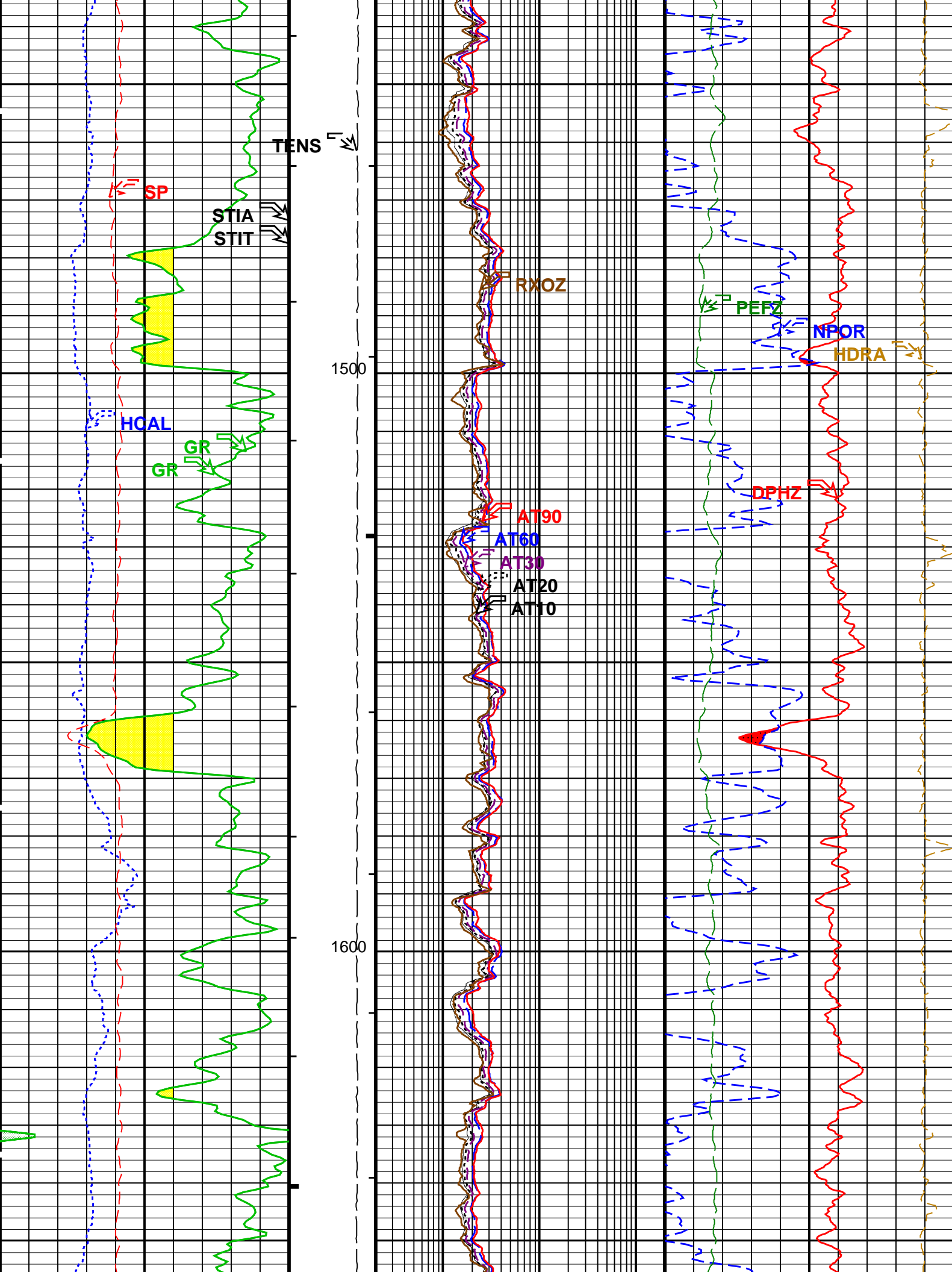


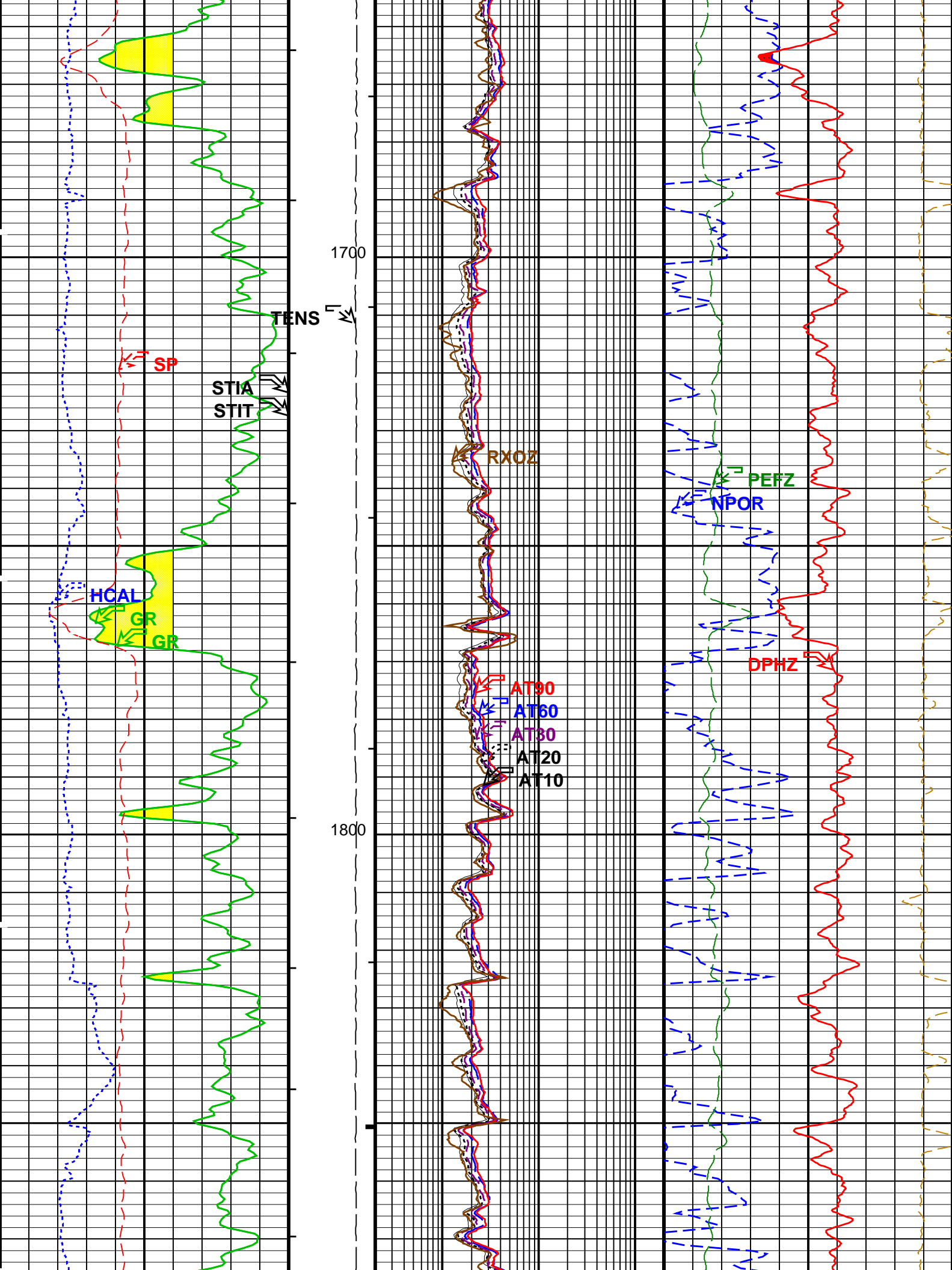


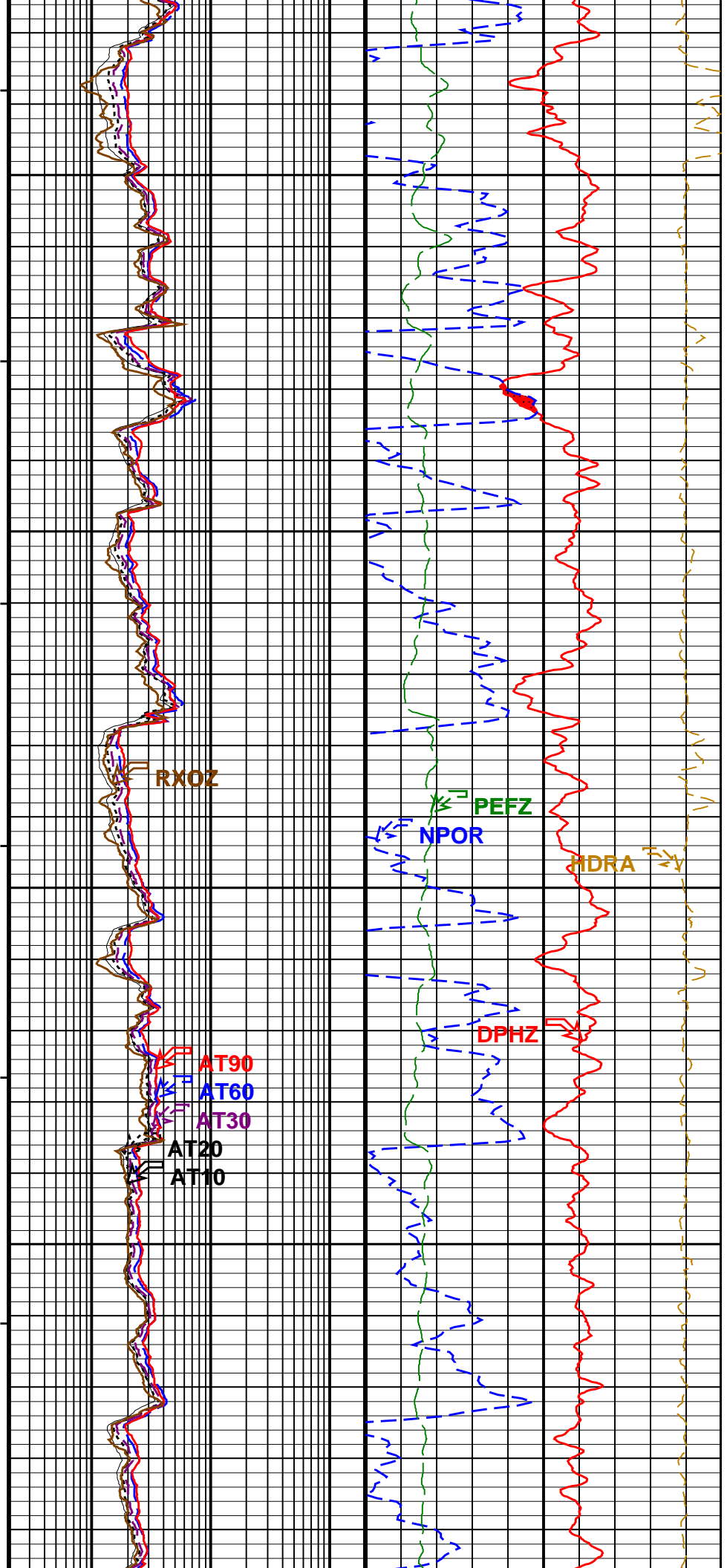
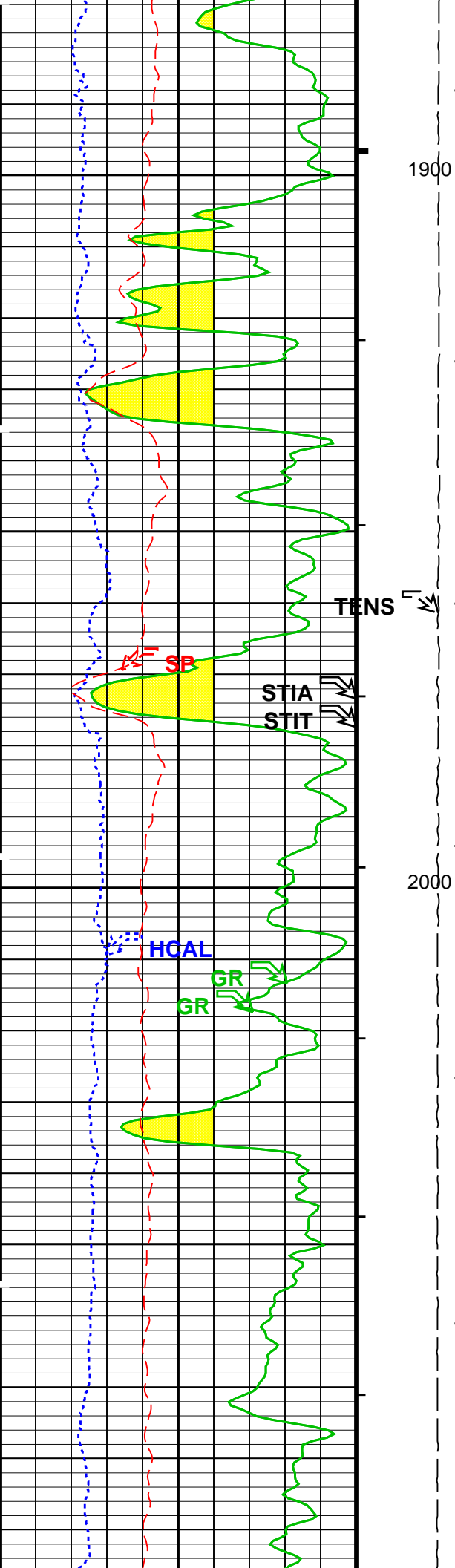


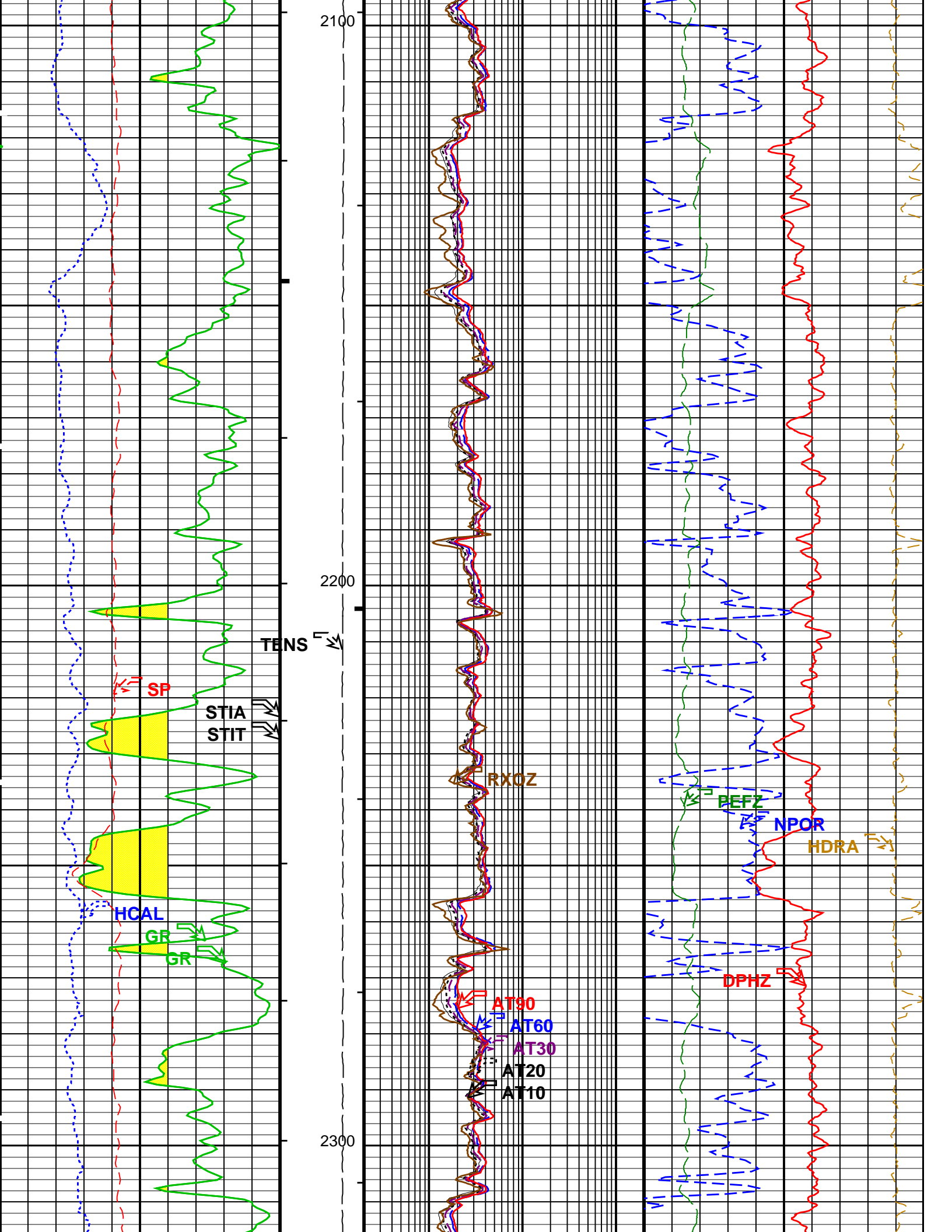


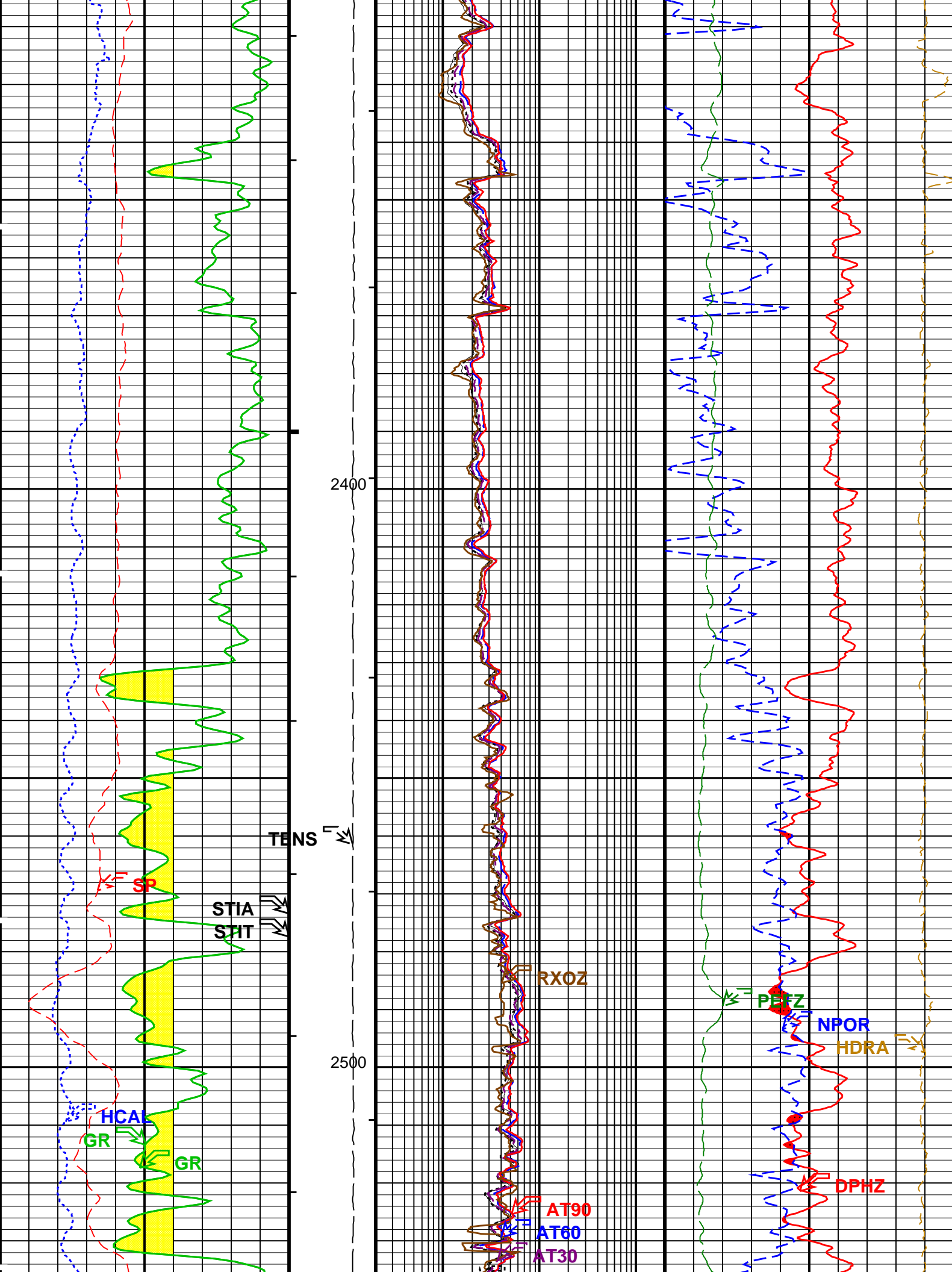


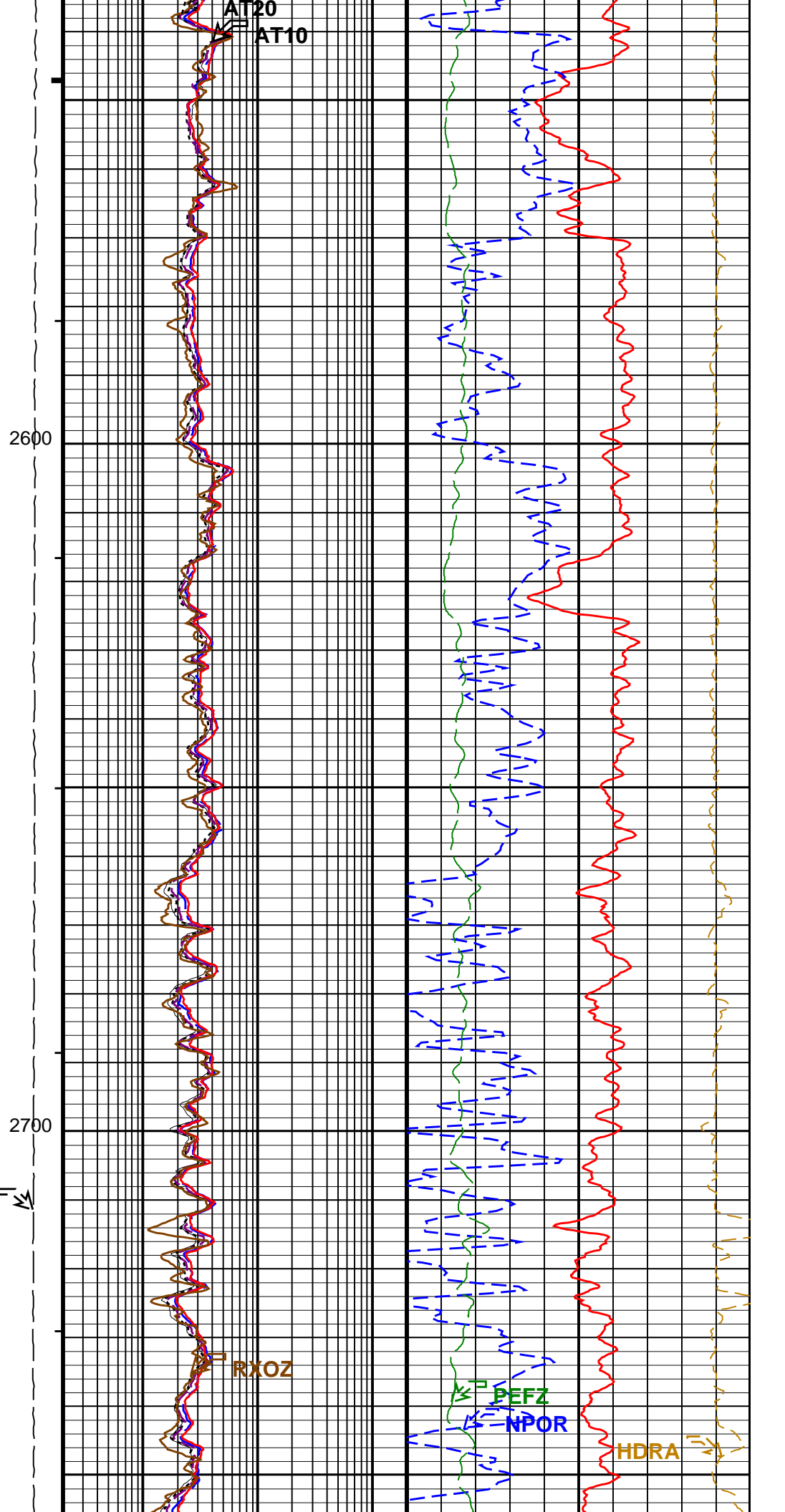
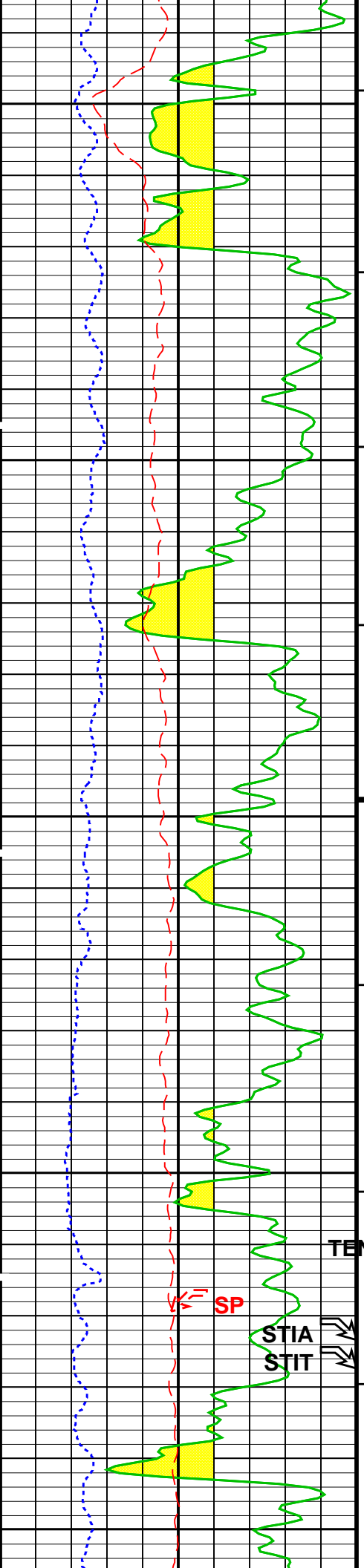


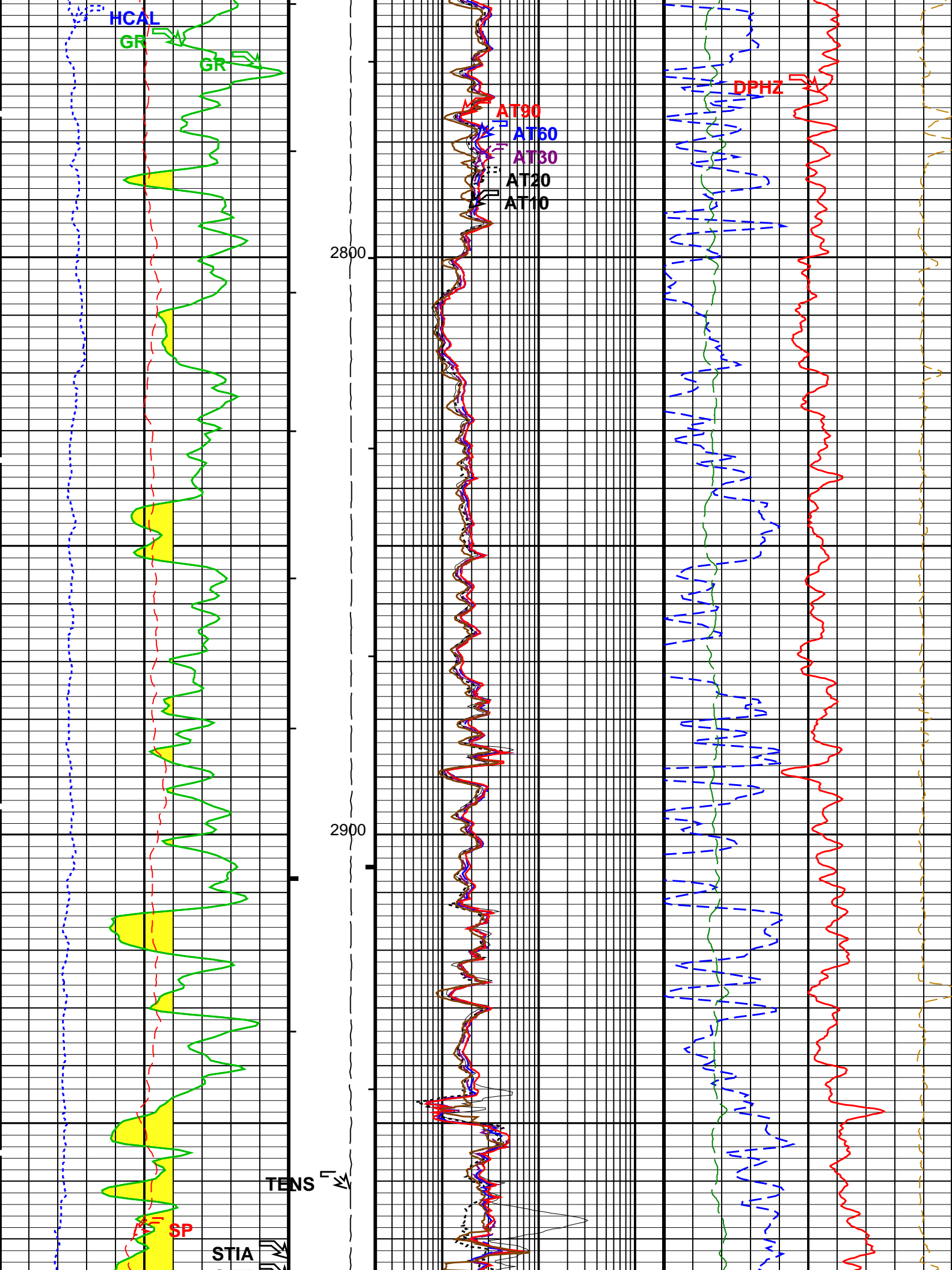


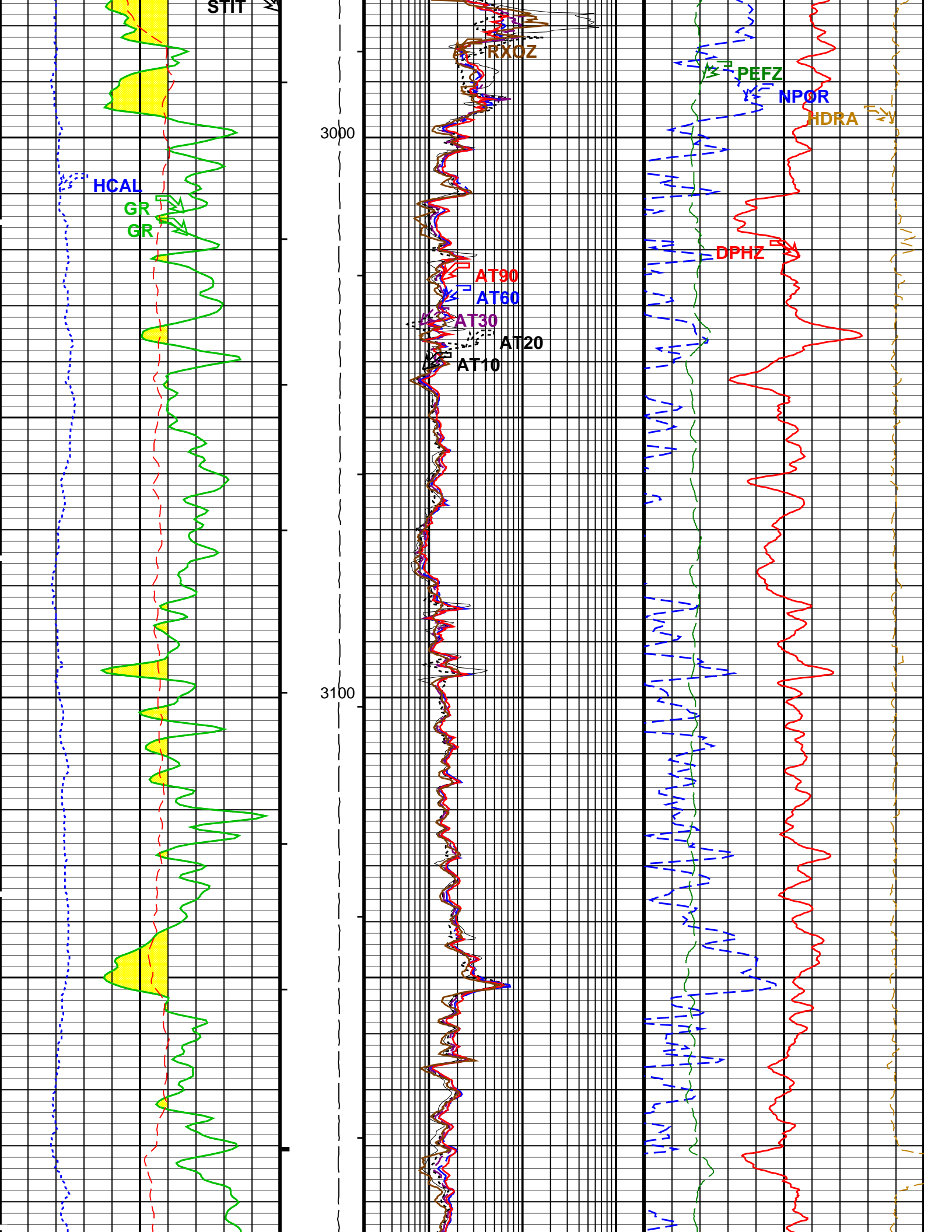


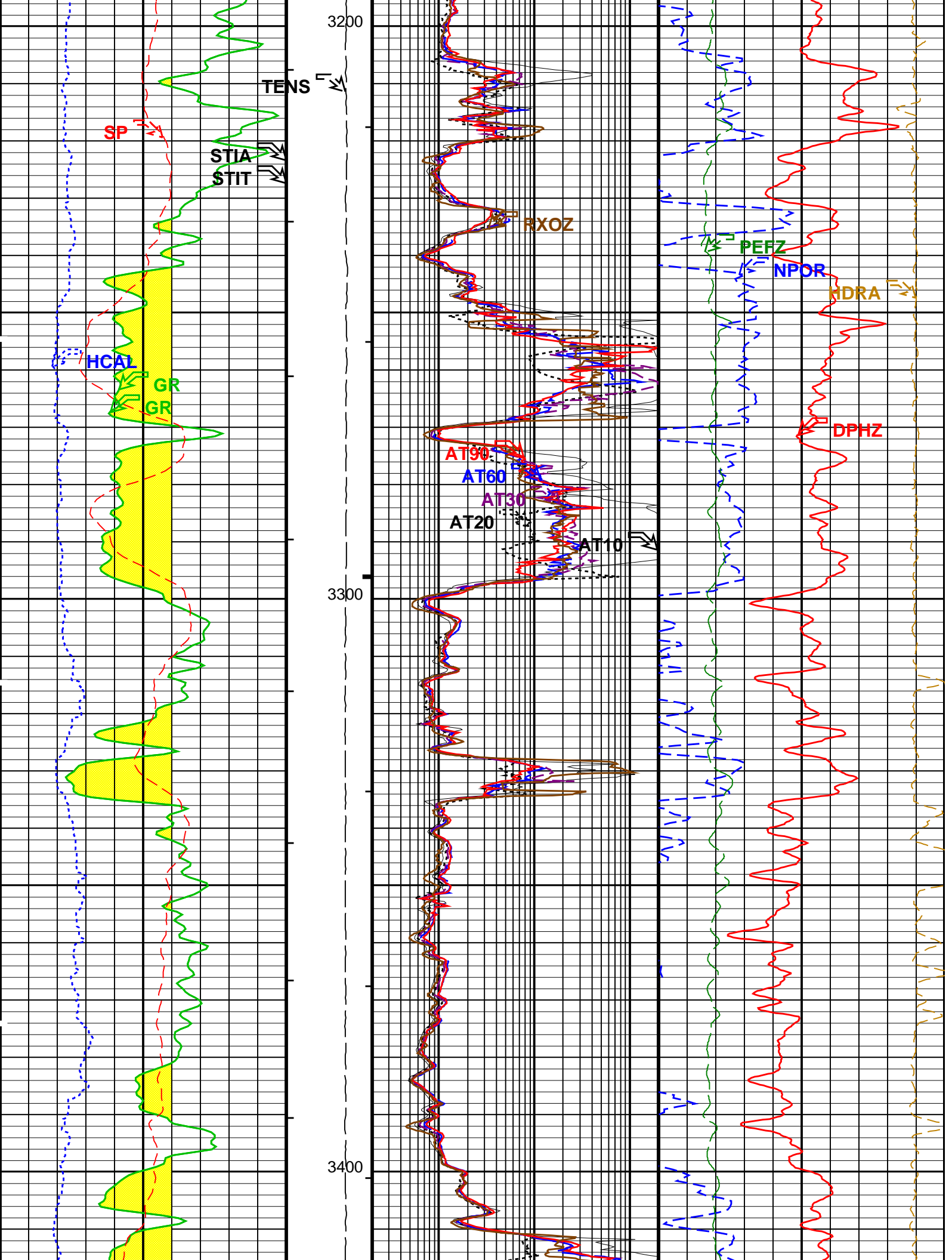


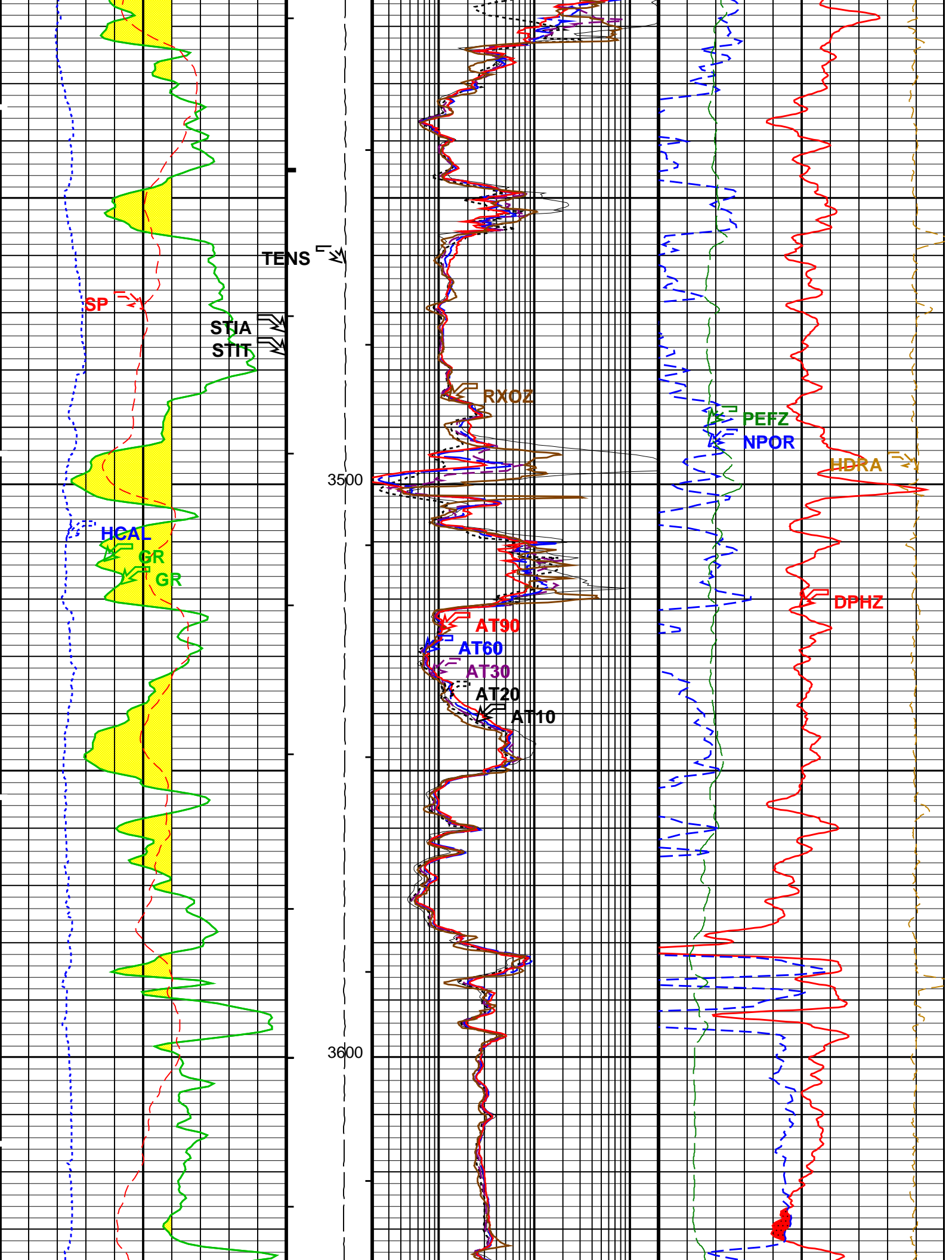


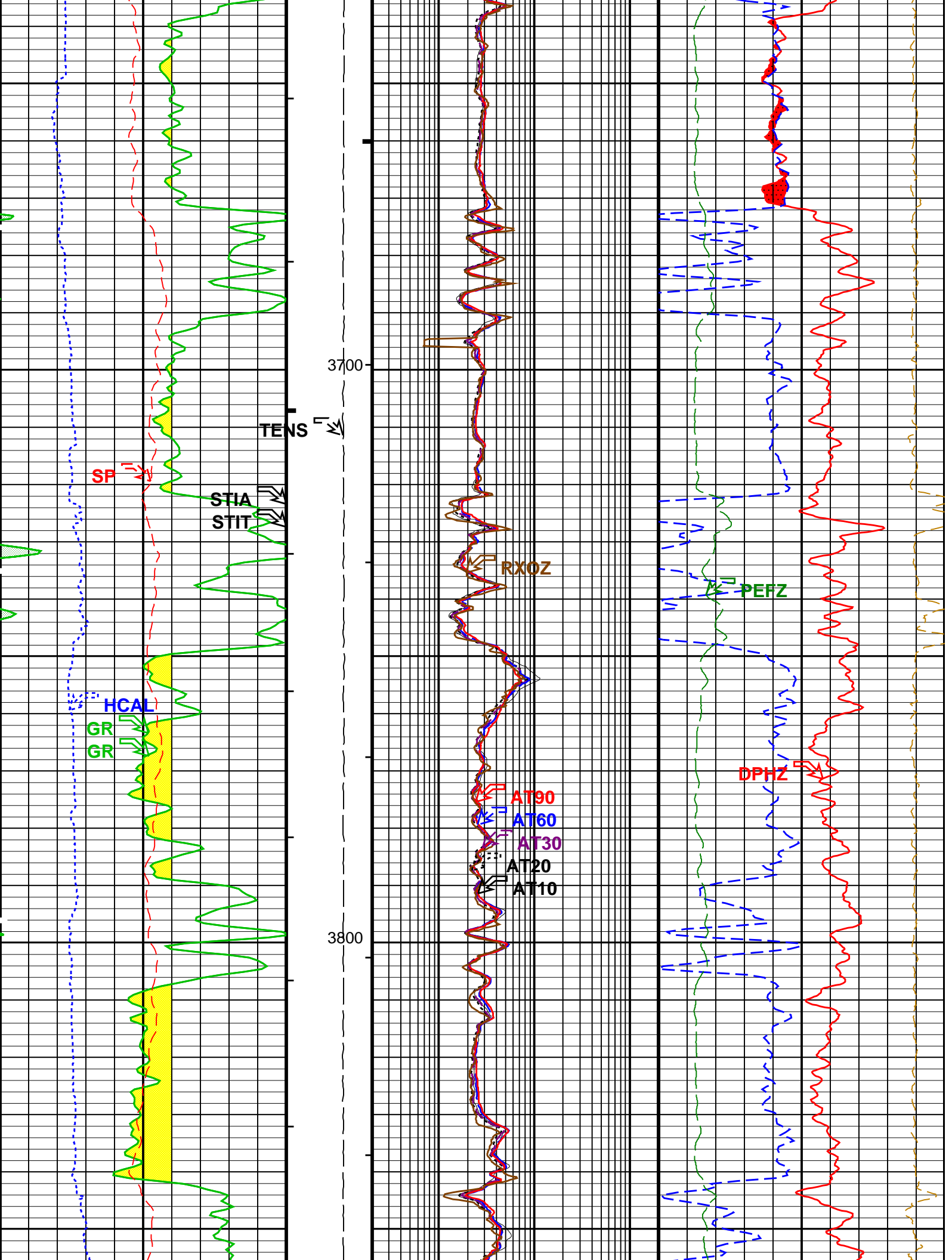


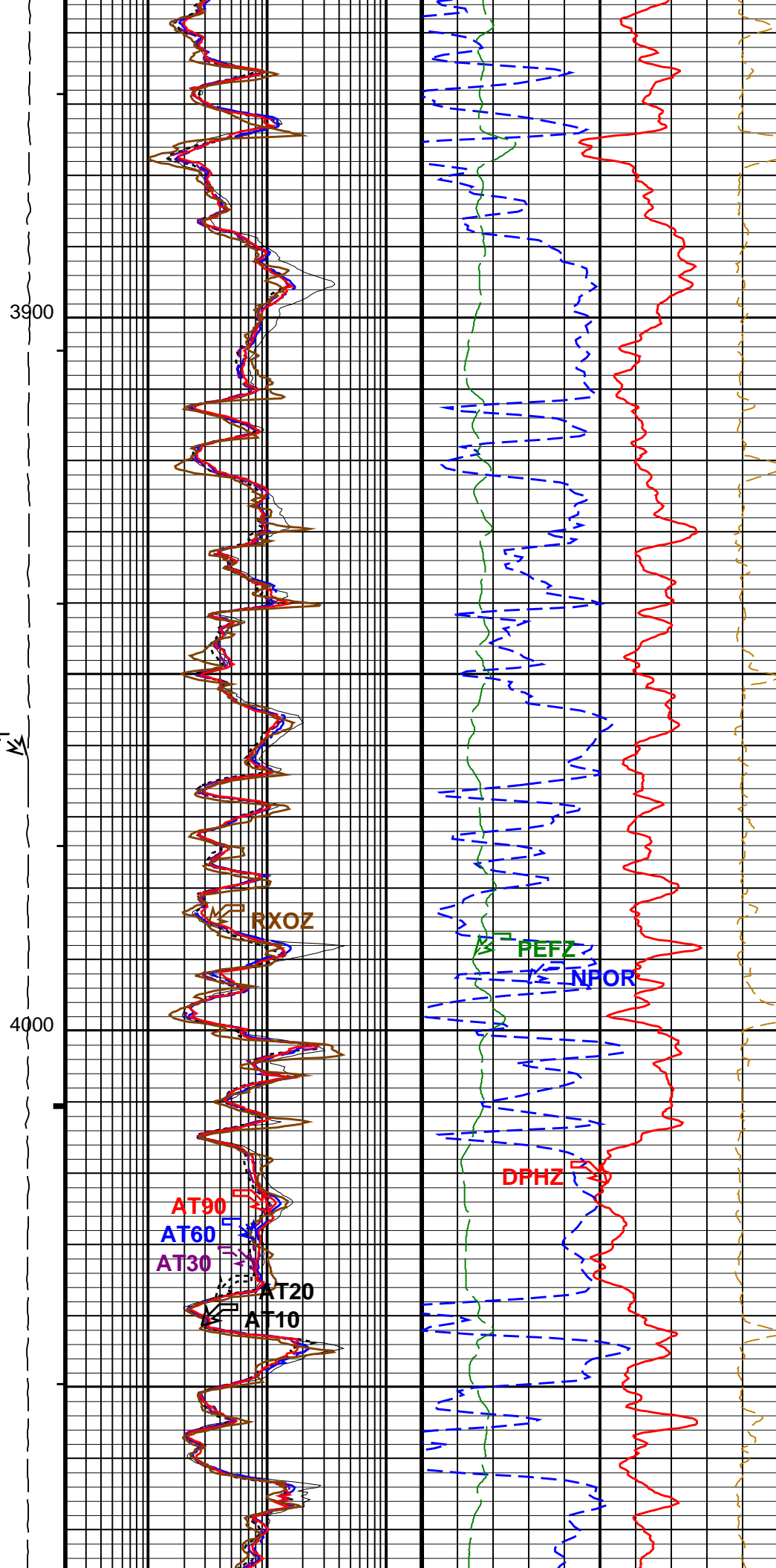
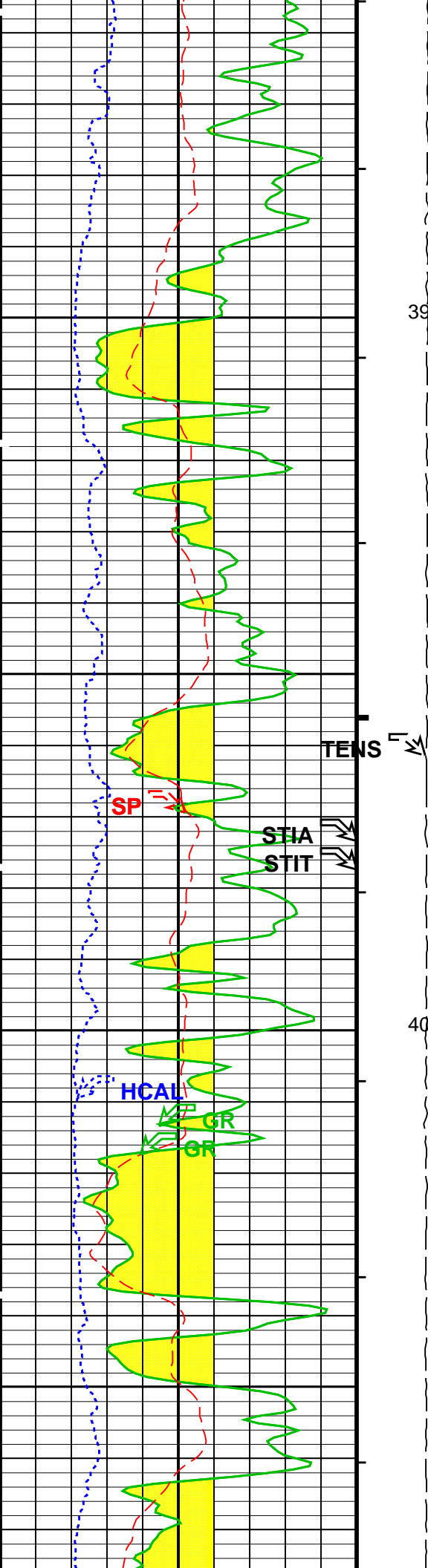


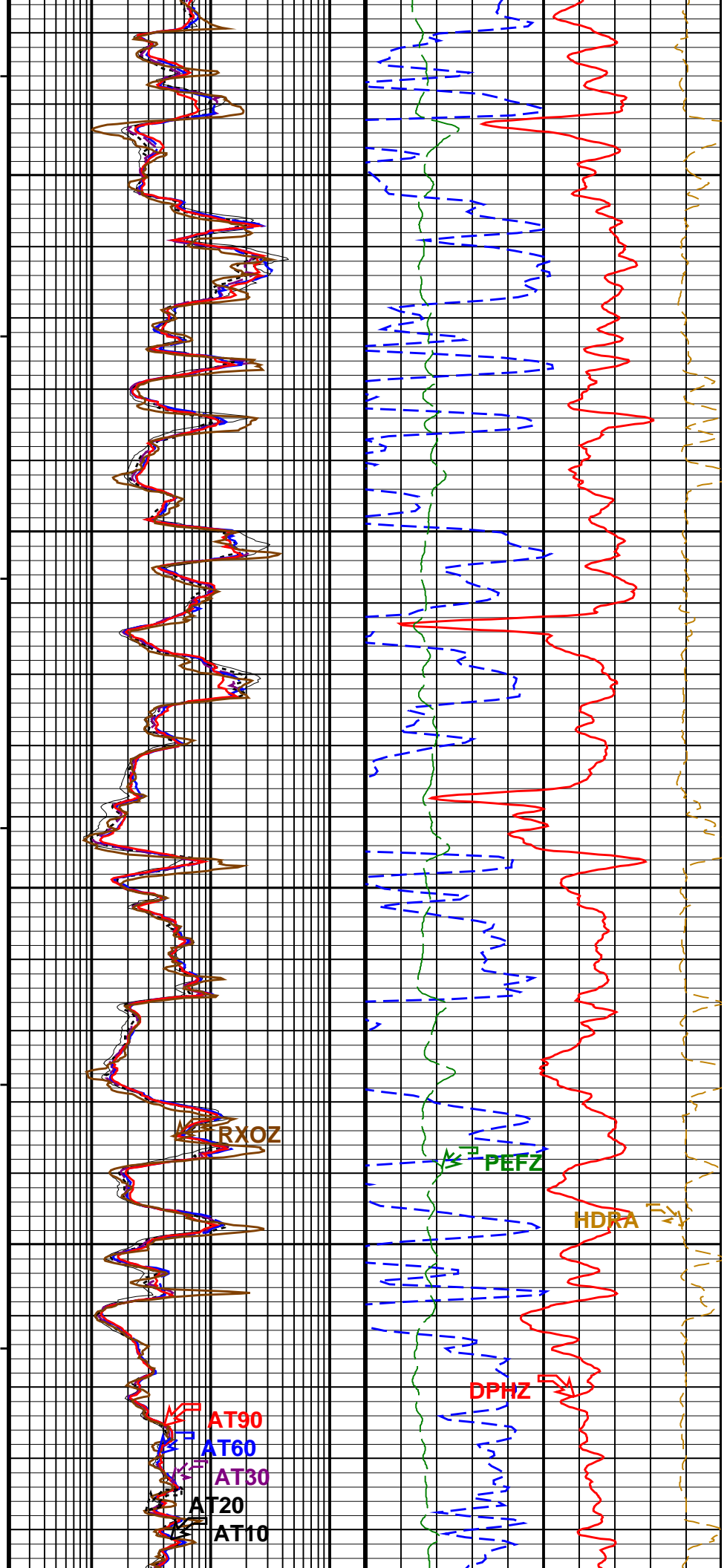
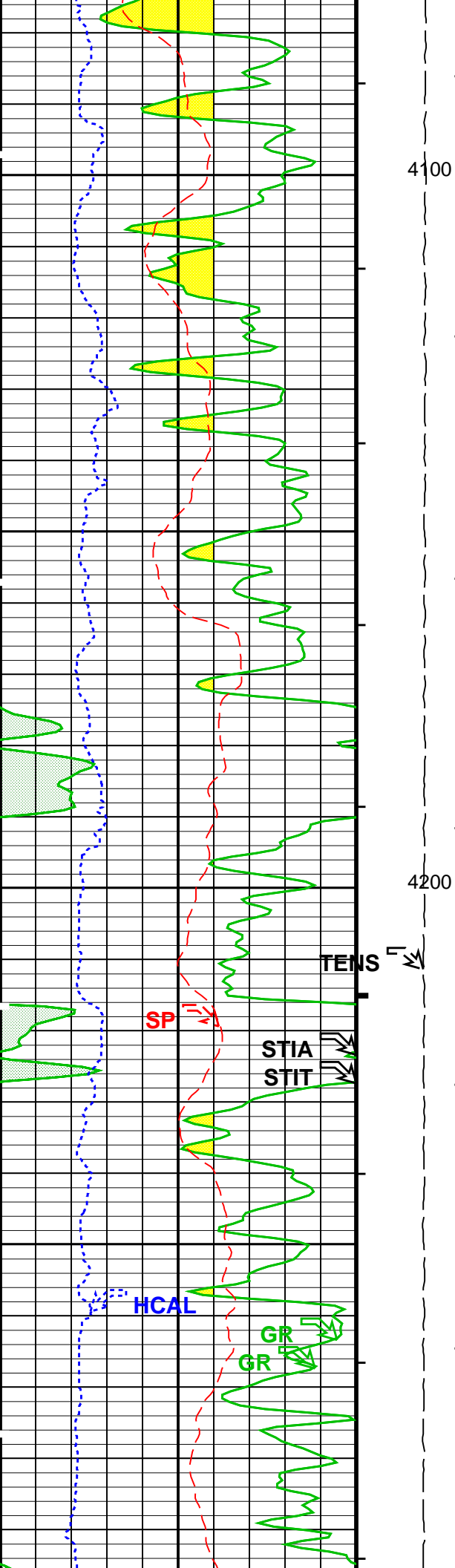


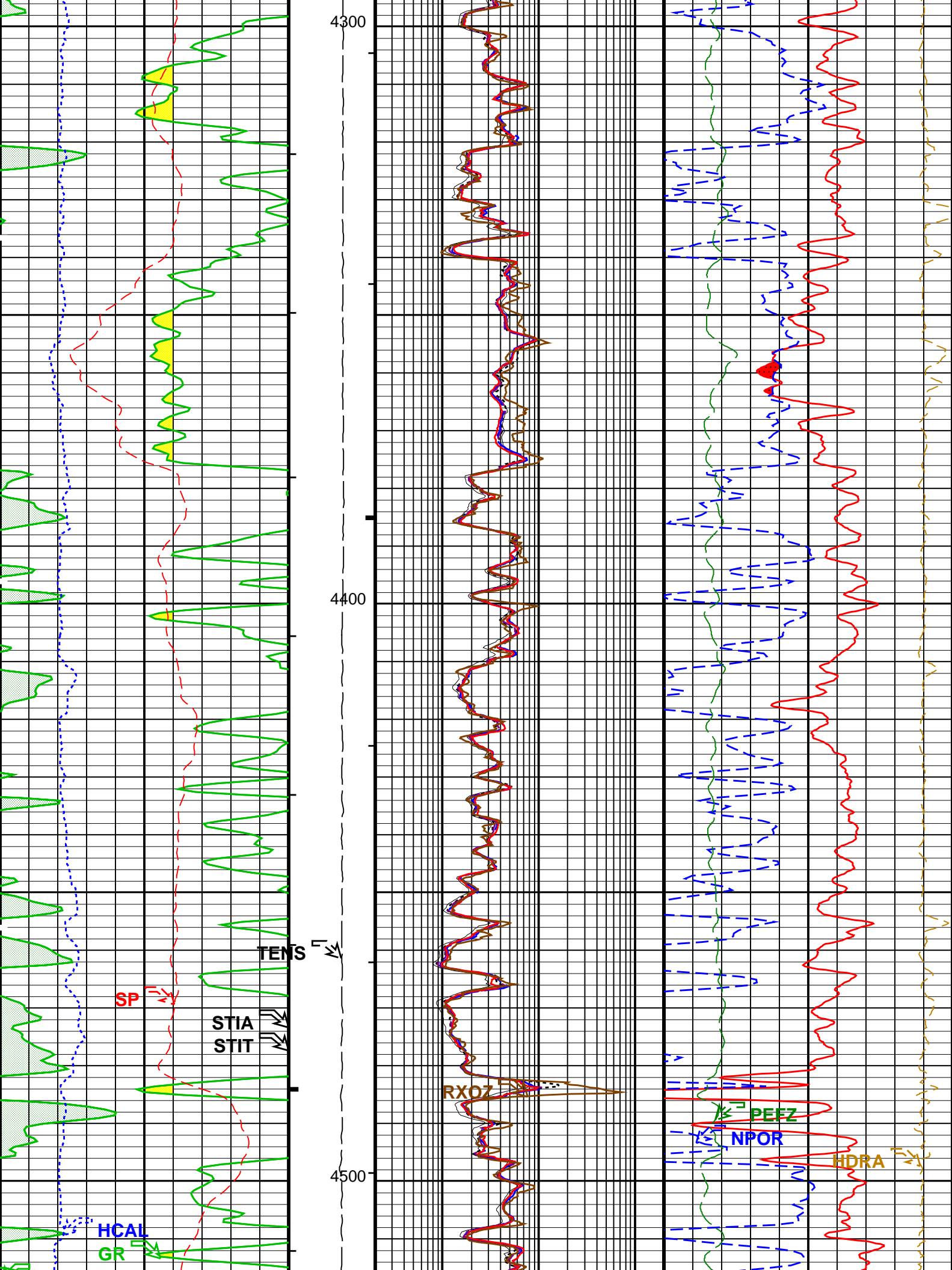


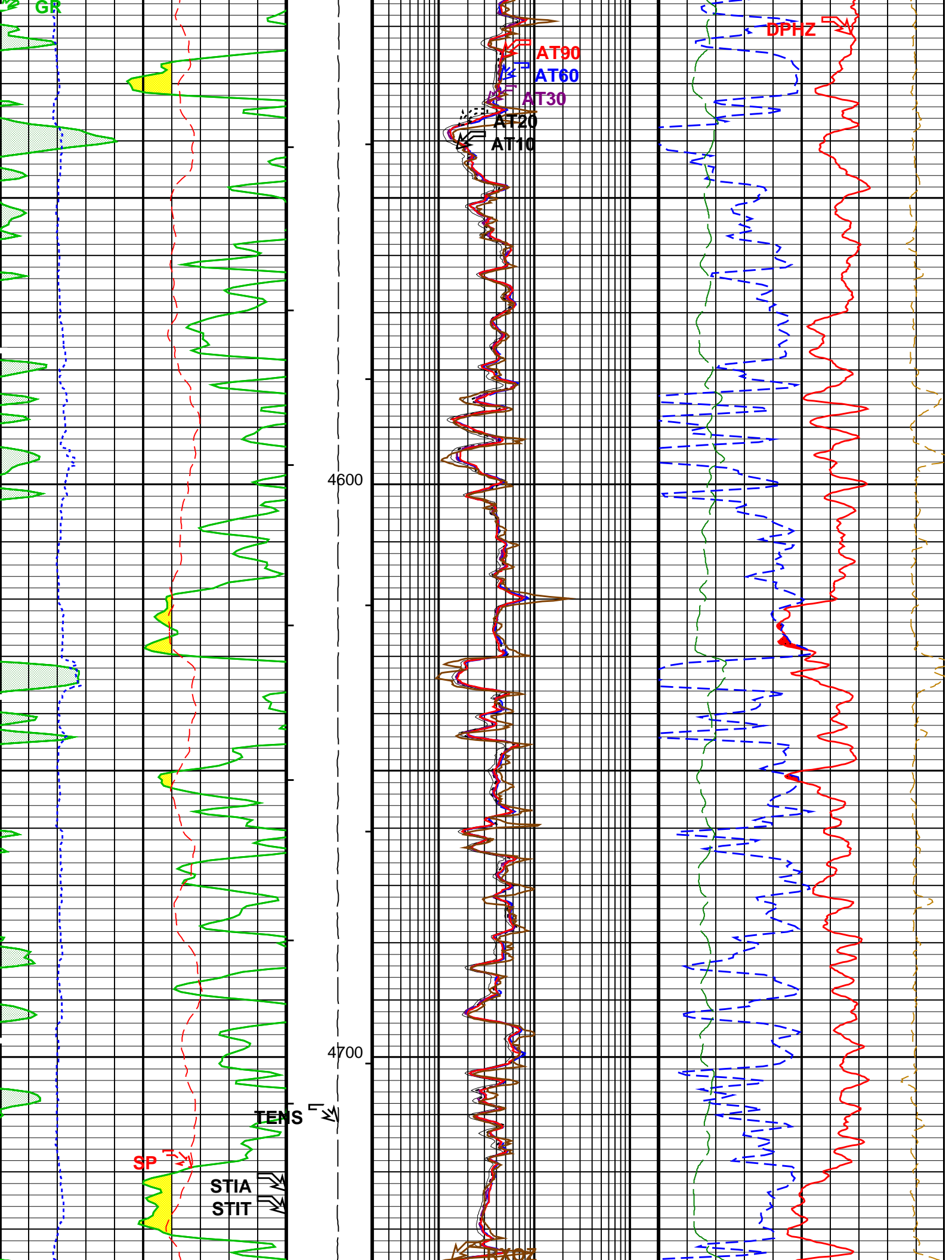


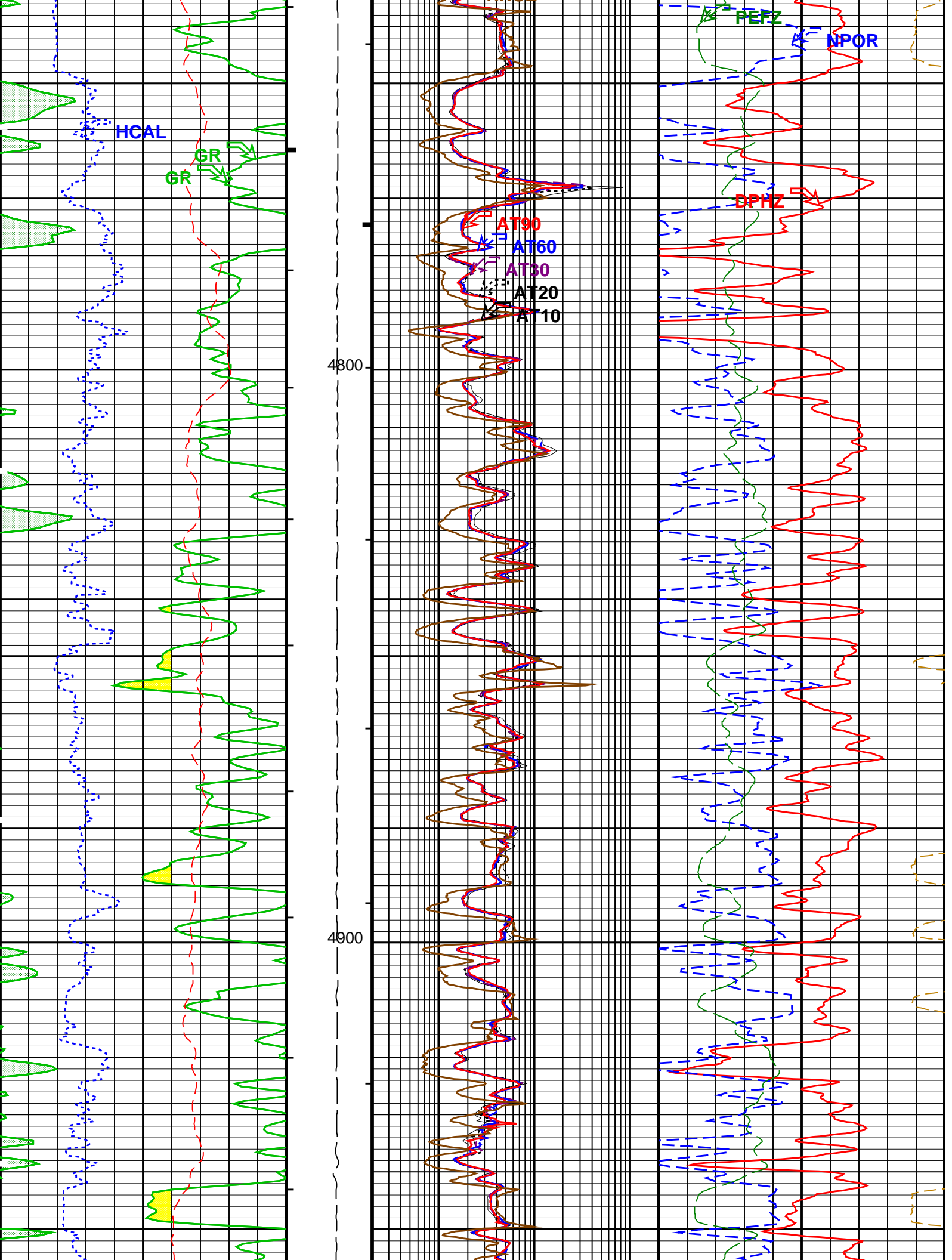


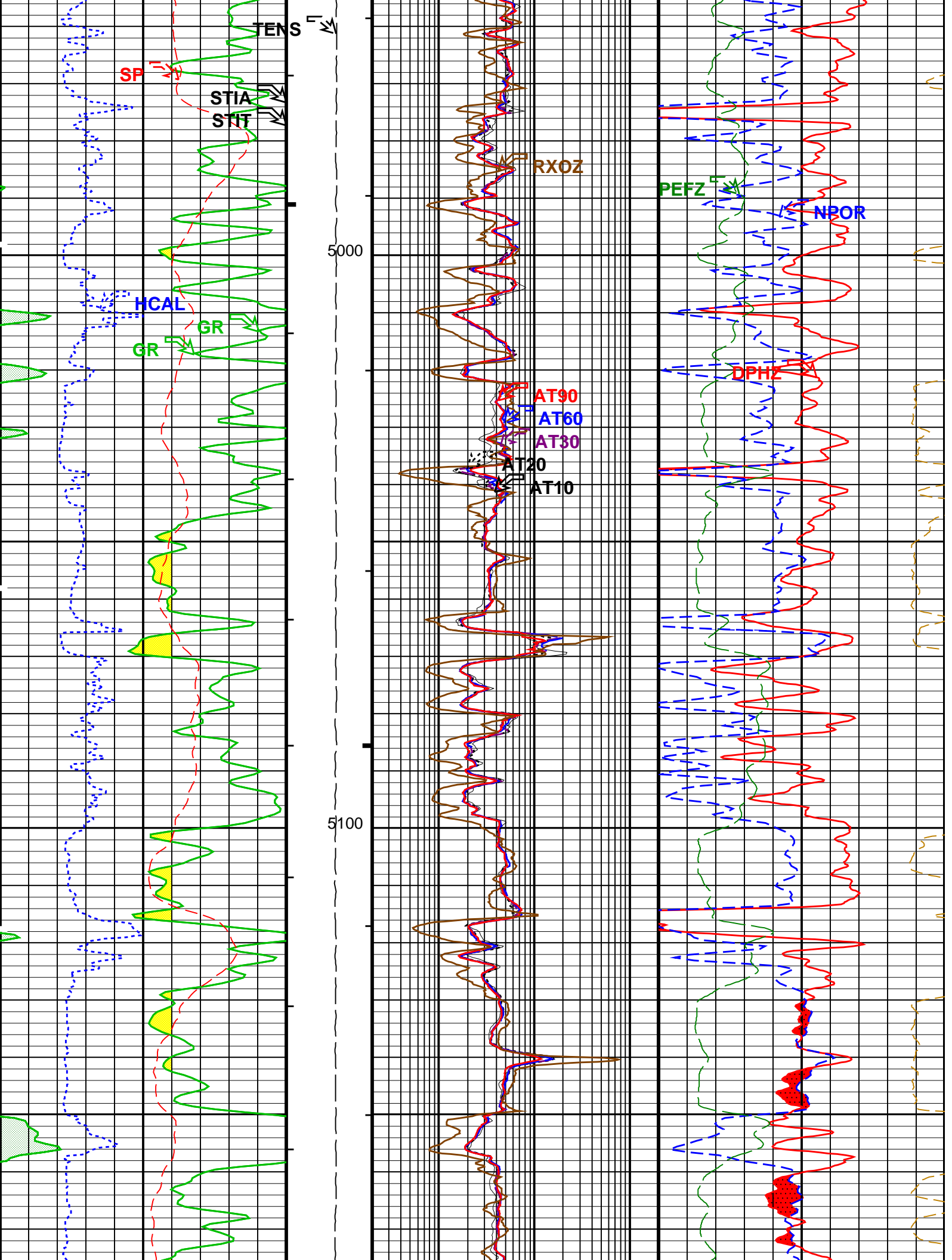


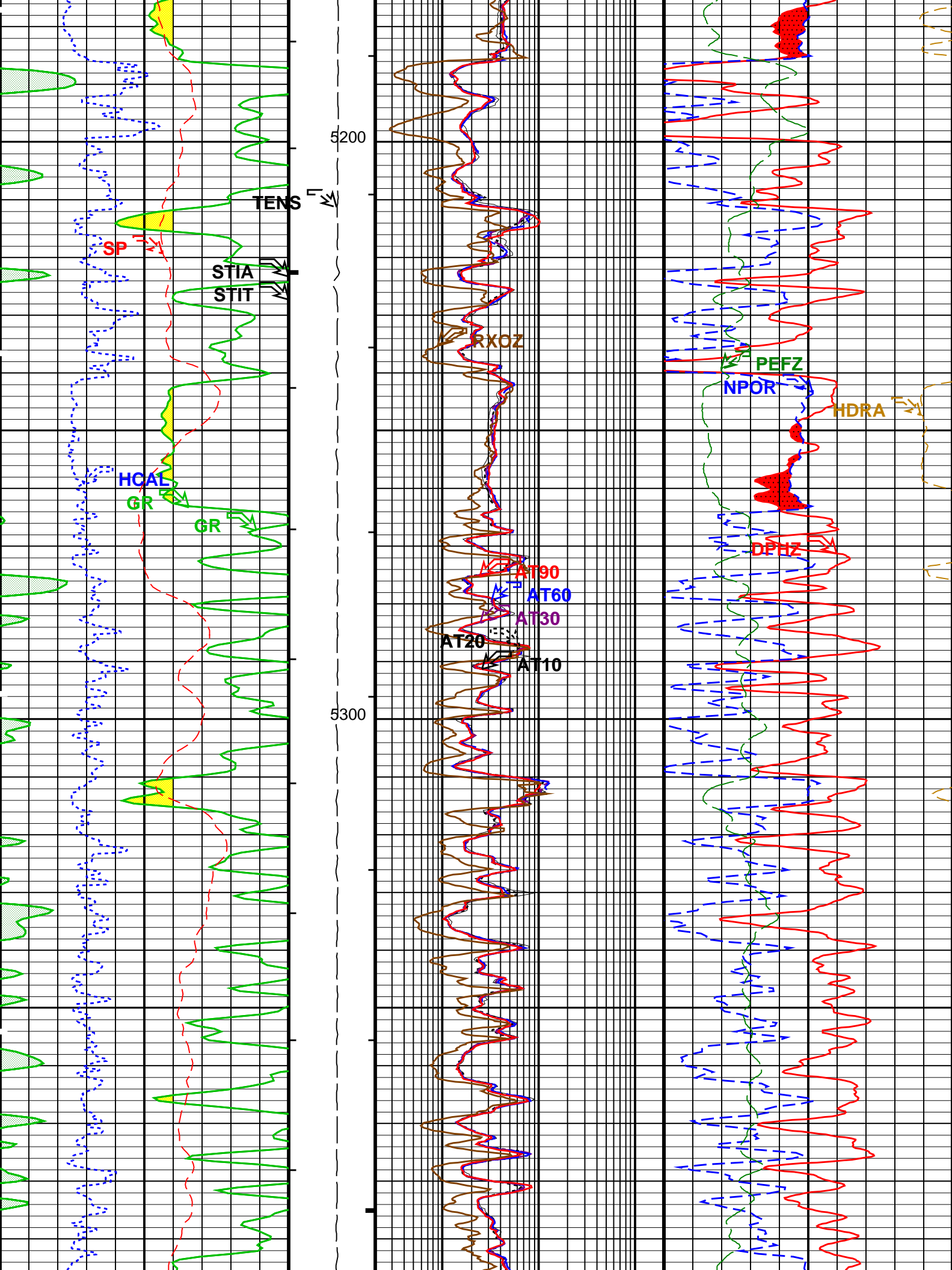


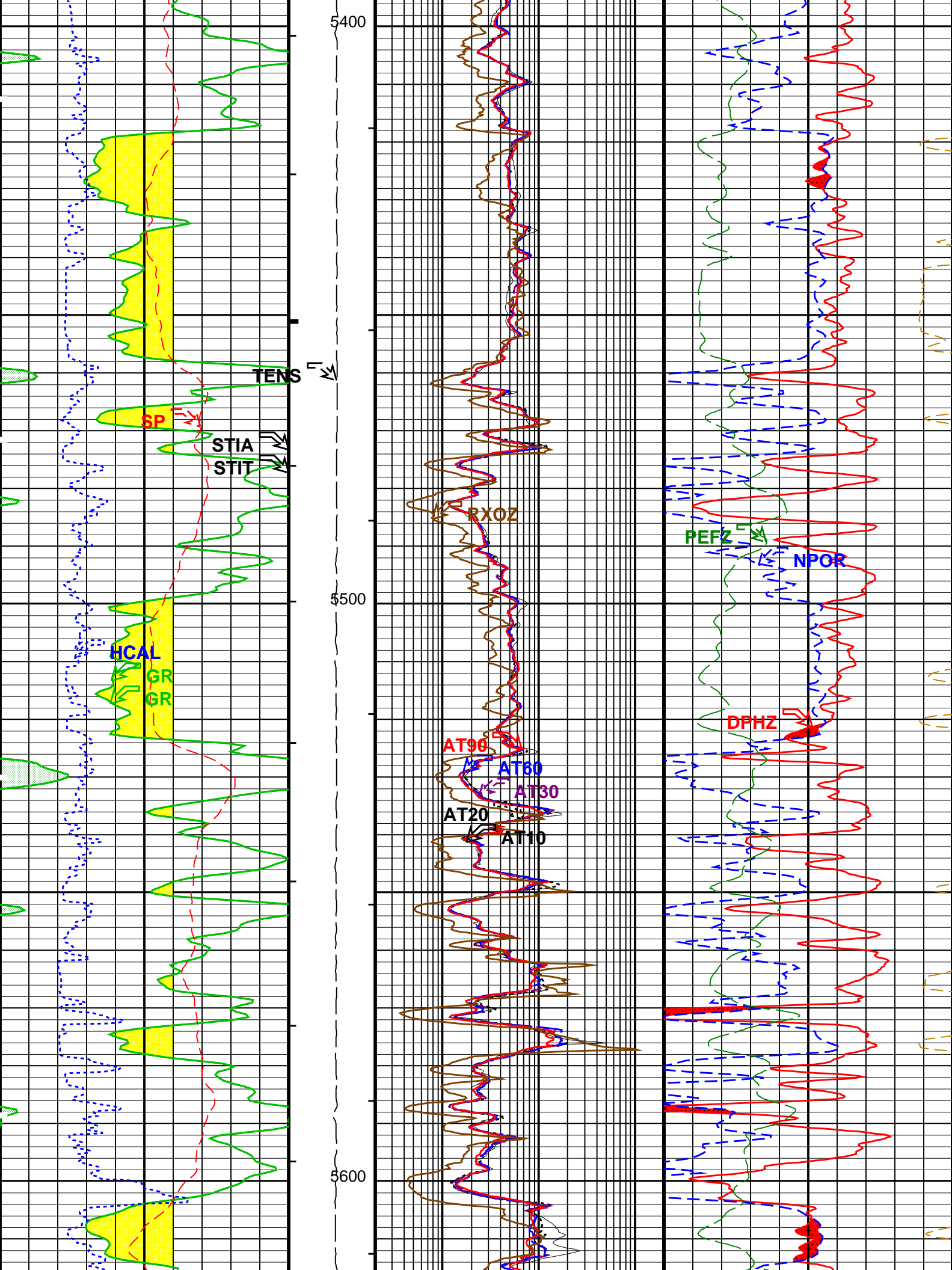


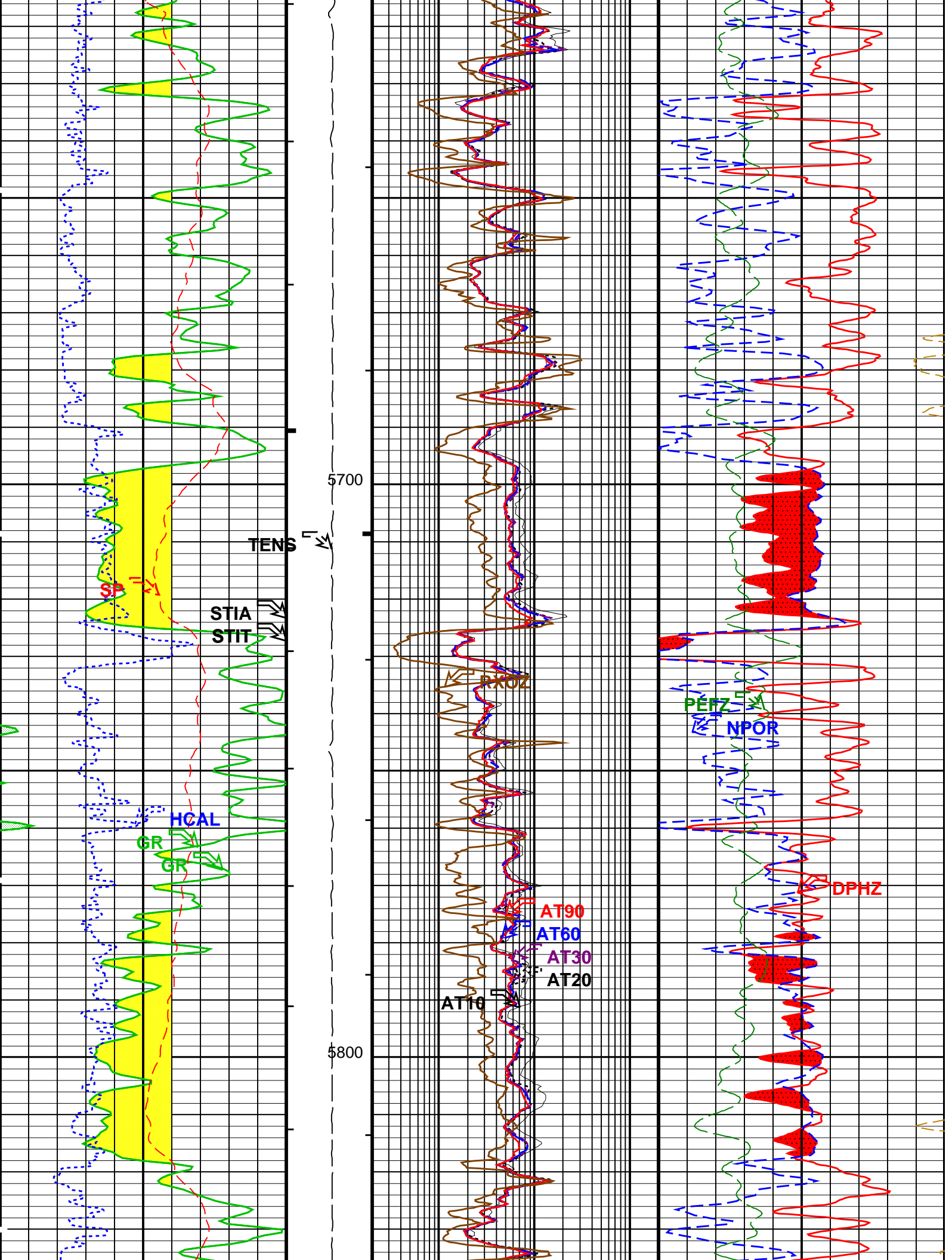


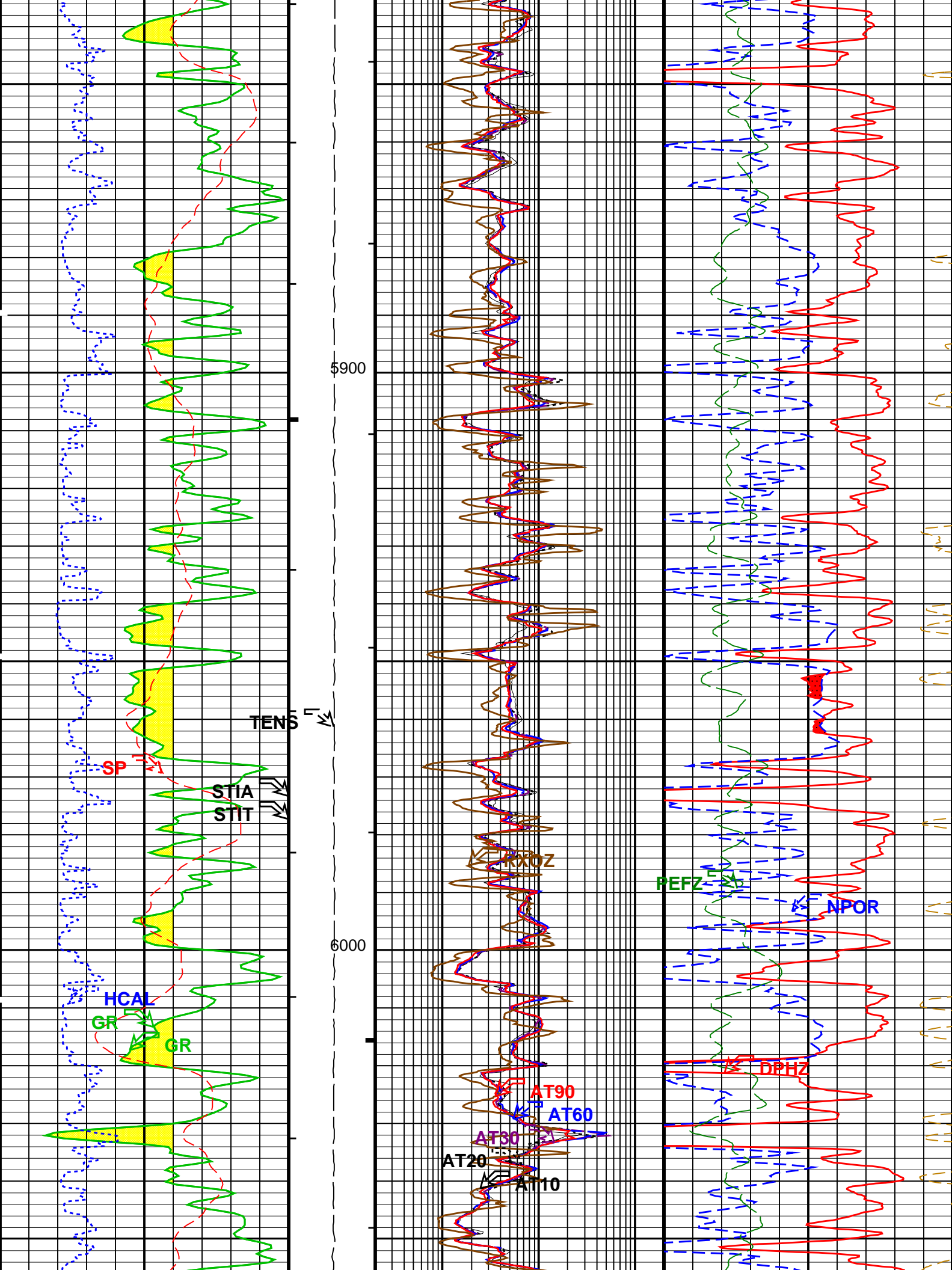


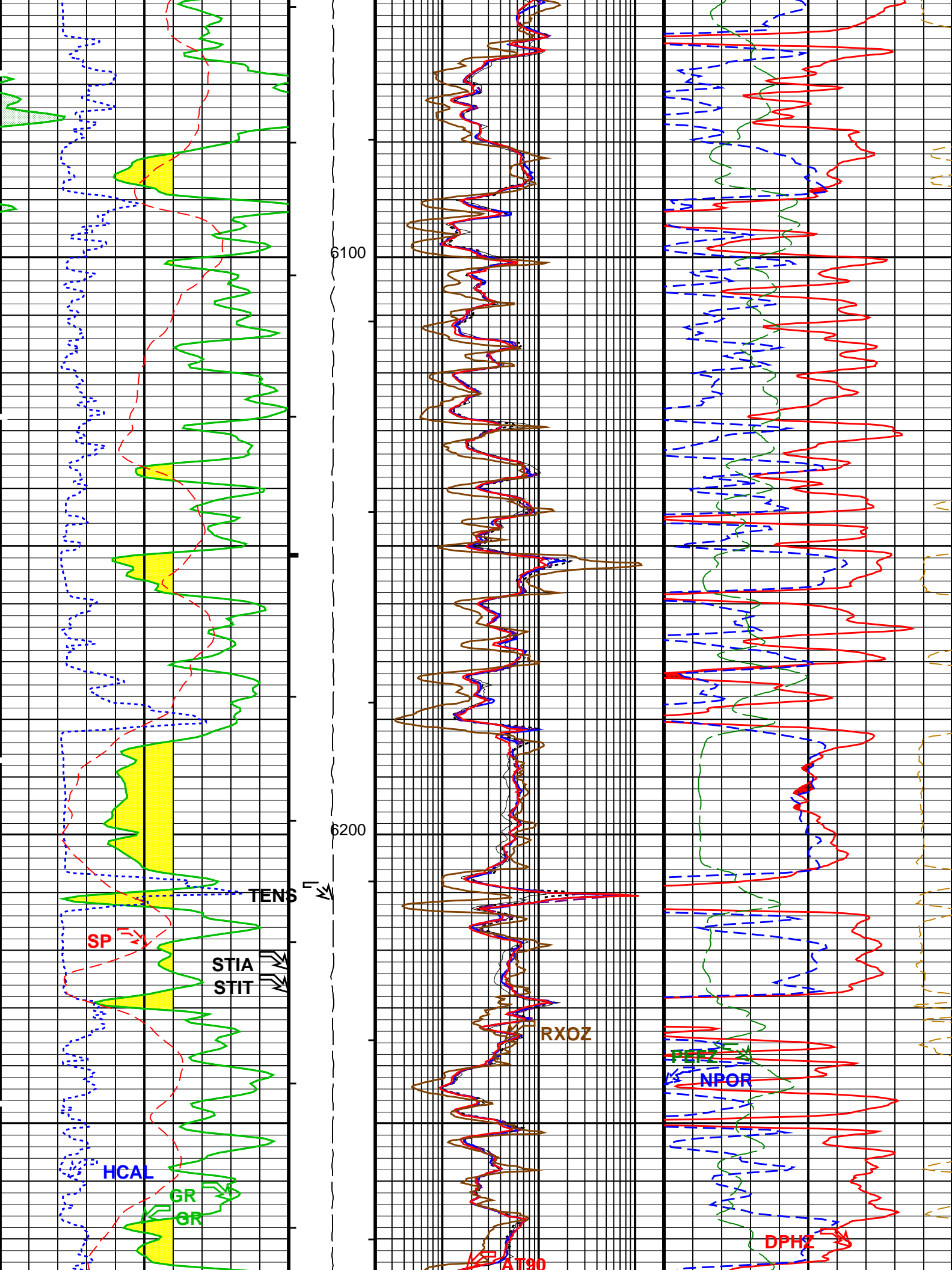


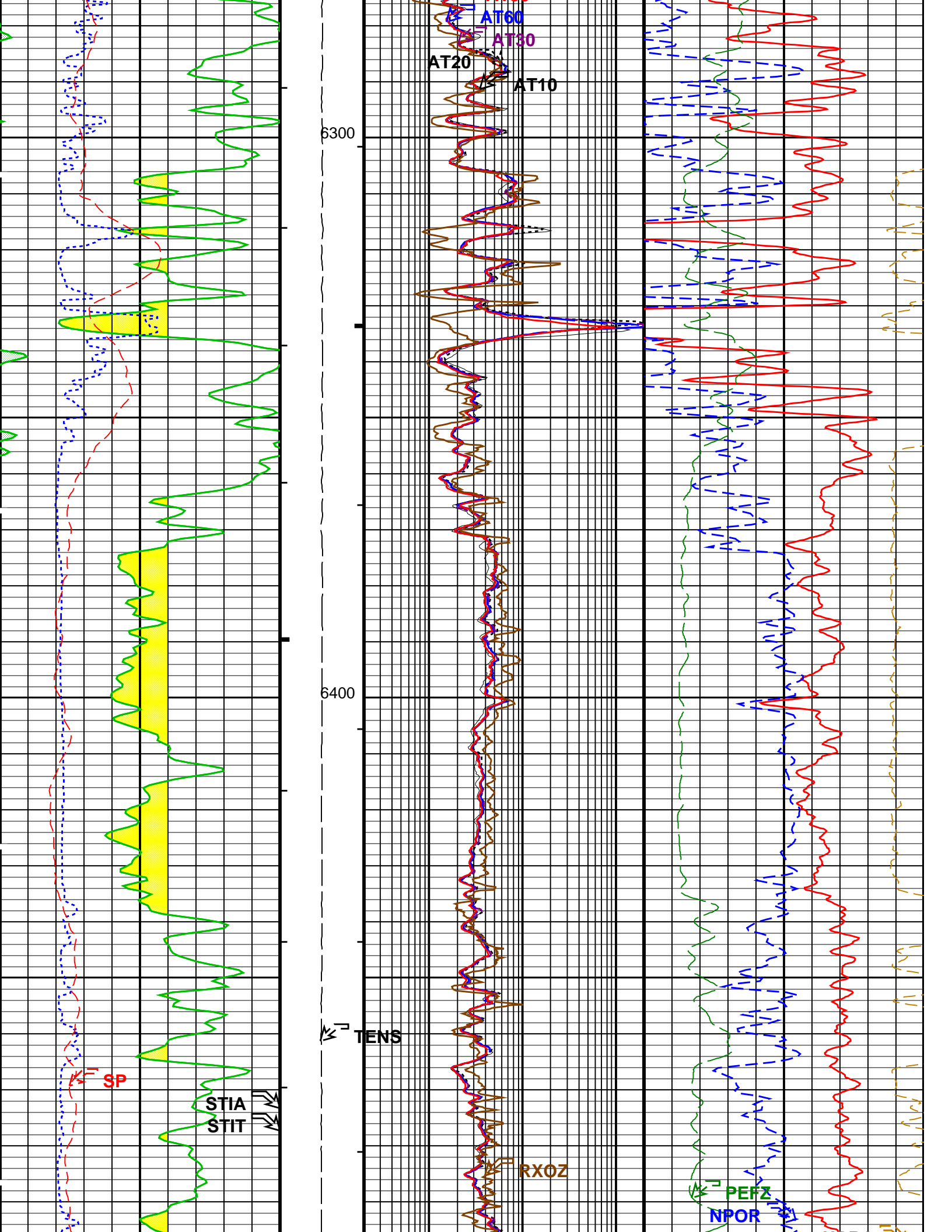


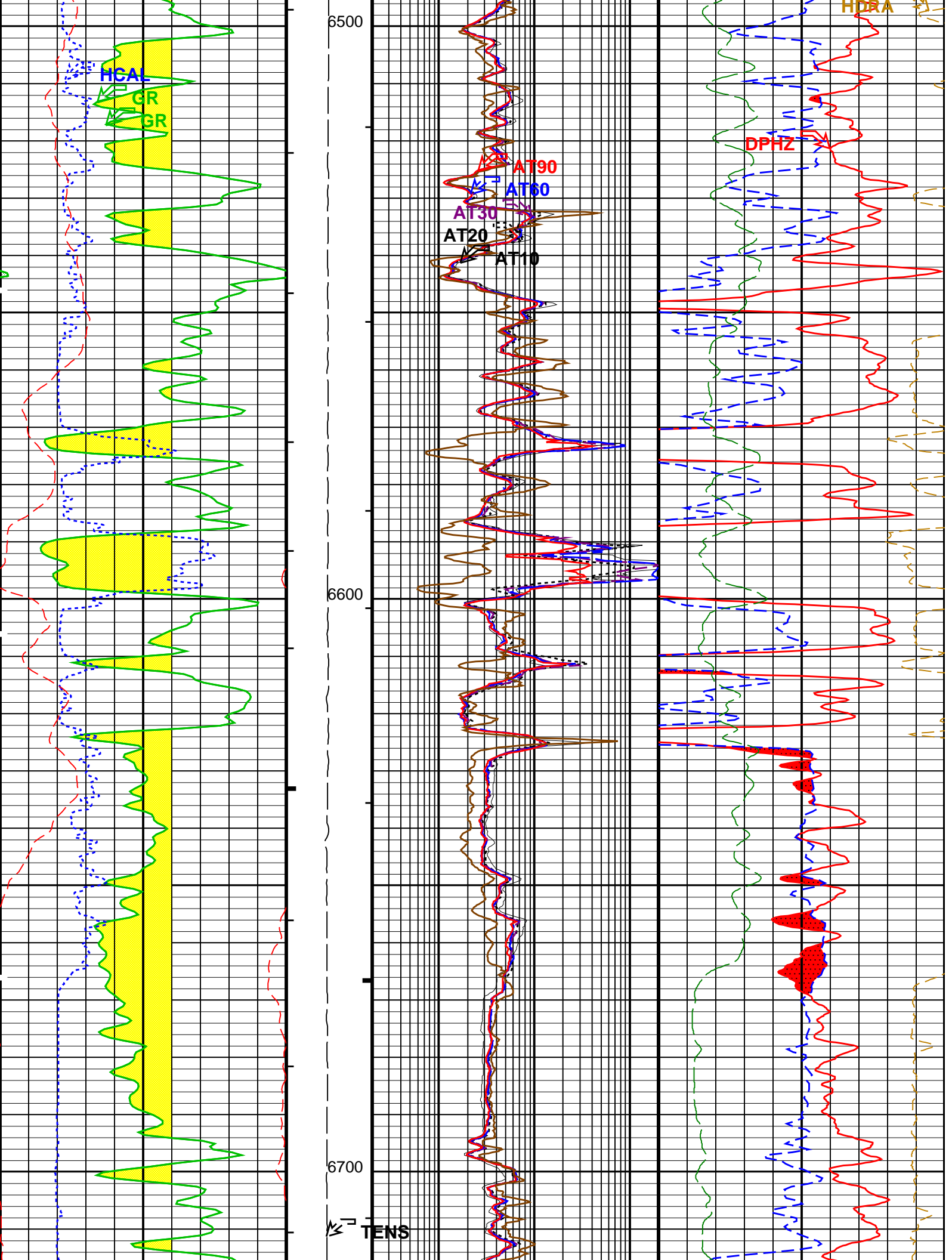


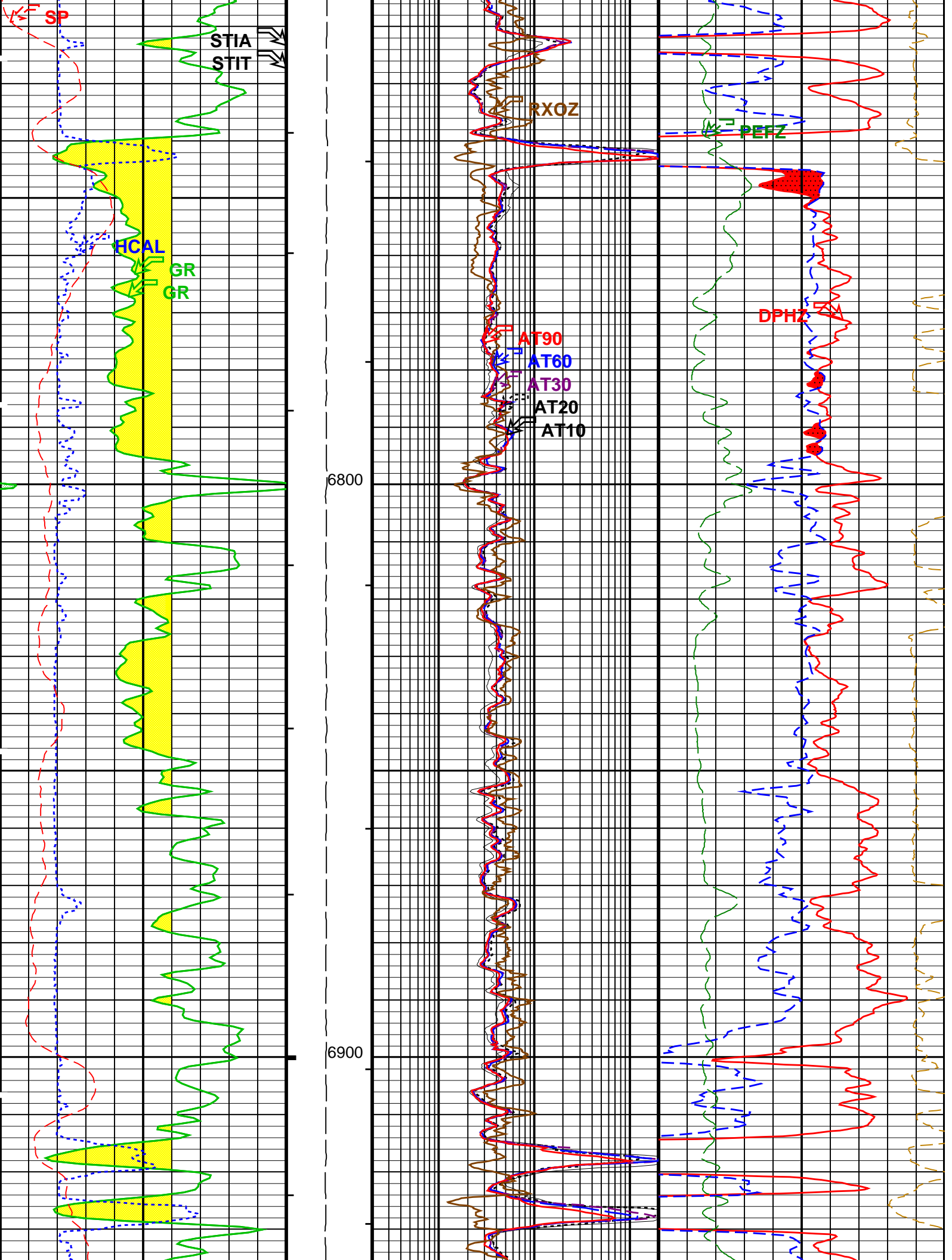


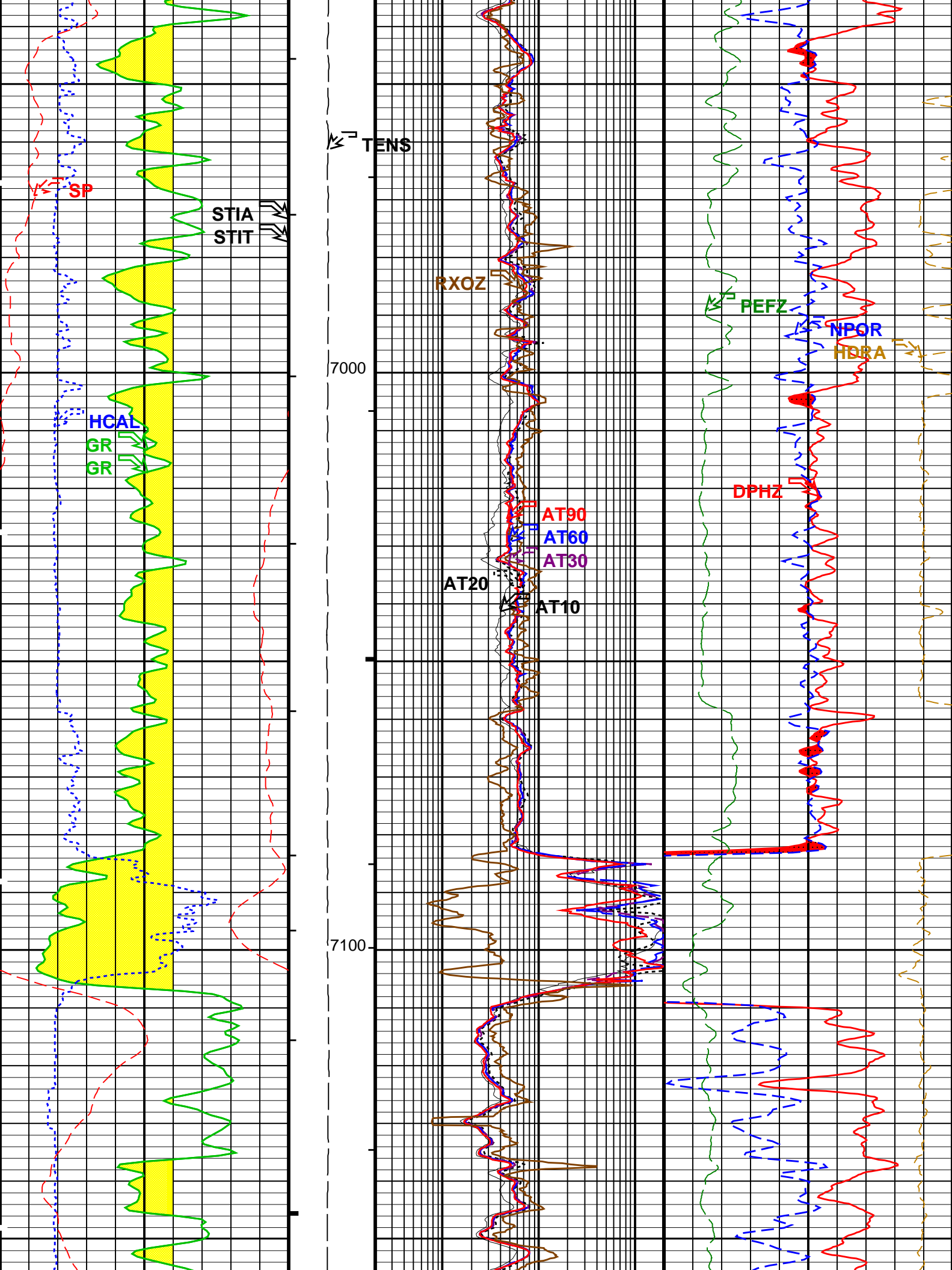


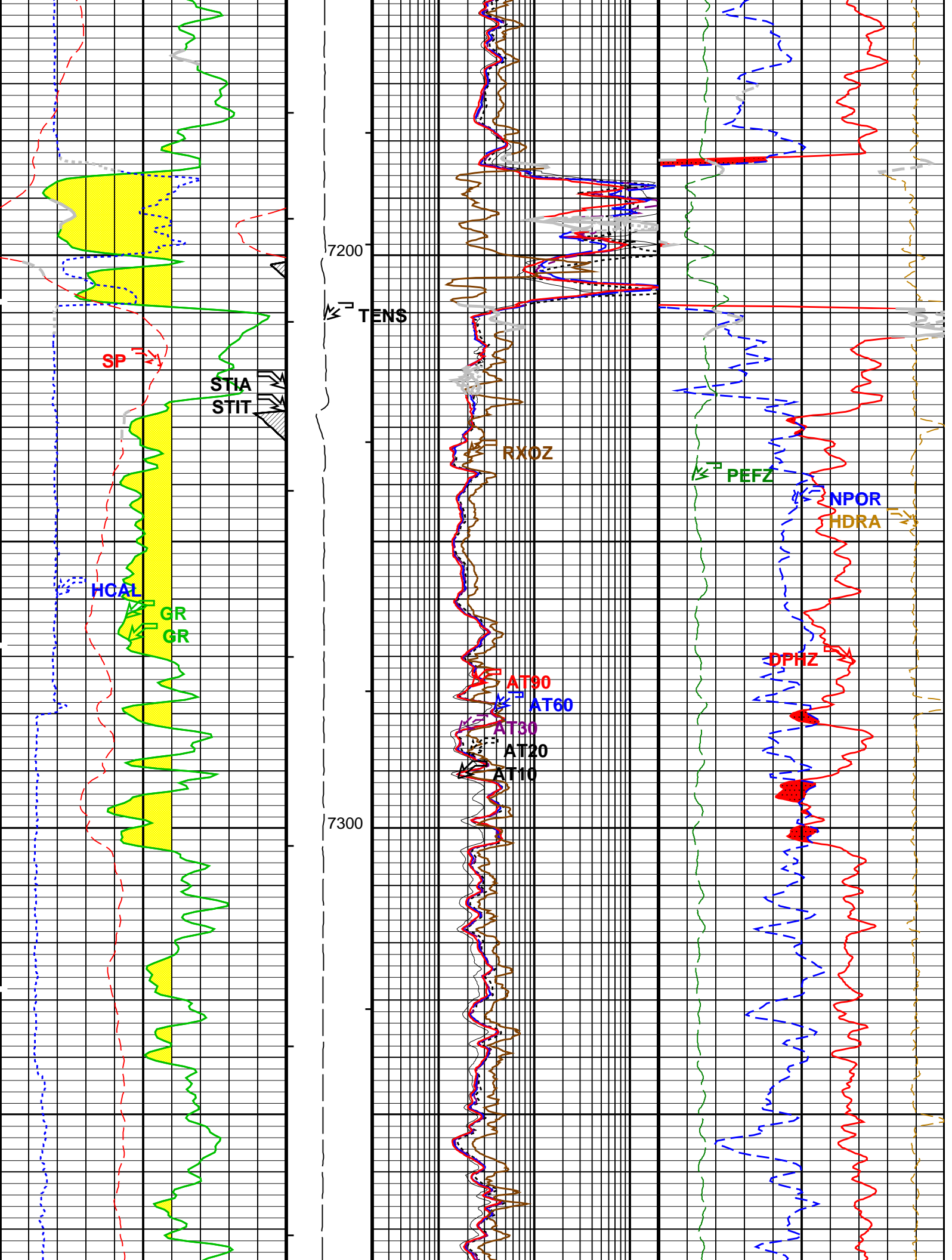


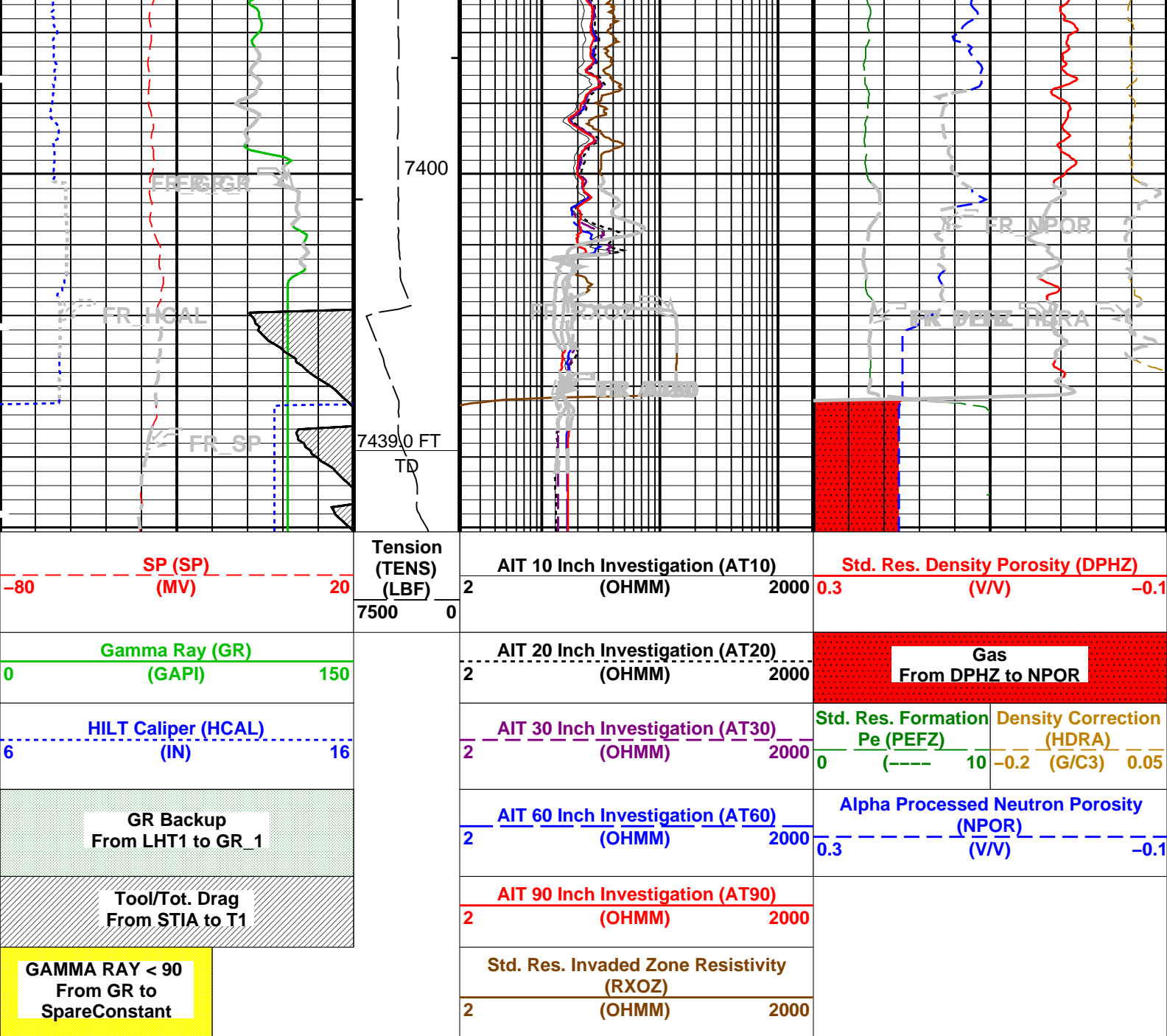












PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
- └ Integrated Cement Volume Minor Pip Every 10 F3
- └ Integrated Cement Volume Major Pip Every 100 F3

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	1	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)	149	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	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
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)	149	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	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.68	G/C3
MPOF	MCFL Processing Operation Mode	ON	
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	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	149	DEGF
FCD	Future Casing (Outer) Diameter	4.5	IN
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	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	7440.00	FT
TDL	Total Depth - Logger	7439.00	FT
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	900.00	PPM
CSIZ	Current Casing Size	8.625	IN
CWEI	Casing Weight	32.00	LB/F
DFD	Drilling Fluid Density	10.55	LB/G
DORL	Depth Offset for Repeat Analysis	8.0	FT
FLEV	Fluid Level	5.00	FT
MST	Mud Sample Temperature	69.00	DEGF
RMFS	Resistivity of Mud Filtrate Sample	1.7040	OHMM
TD	Total Depth	7439	FT

AIT-M
DTC-H16C0-147
16C0-147

HILTH-FTB

SRPC-3590-MAR_2008_OP16

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_009LUP	FN:12	PRODUCER	04-Oct-2008 14:03
RTB	AIT_TLD_MCFL_CNL_009LUP	FN:13	PRODUCER	04-Oct-2008 14:04

Schlumberger

REPEAT ANALYSIS

MAXIS Field Log

Company: ORION ENERGY PARTNERS

Well: KOKOPELLI FED 18-213D

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_008LUP	FN:10	PRODUCER	04-Oct-2008 13:51	7446.0 FT	7105.5 FT
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_009LUP	FN:12	PRODUCER	04-Oct-2008 14:03
RTB	AIT_TLD_MCFL_CNL_009LUP	FN:13	PRODUCER	04-Oct-2008 14:04

OP System Version: 16C0-147

MCM

AIT-M
DTC-H16C0-147
16C0-147

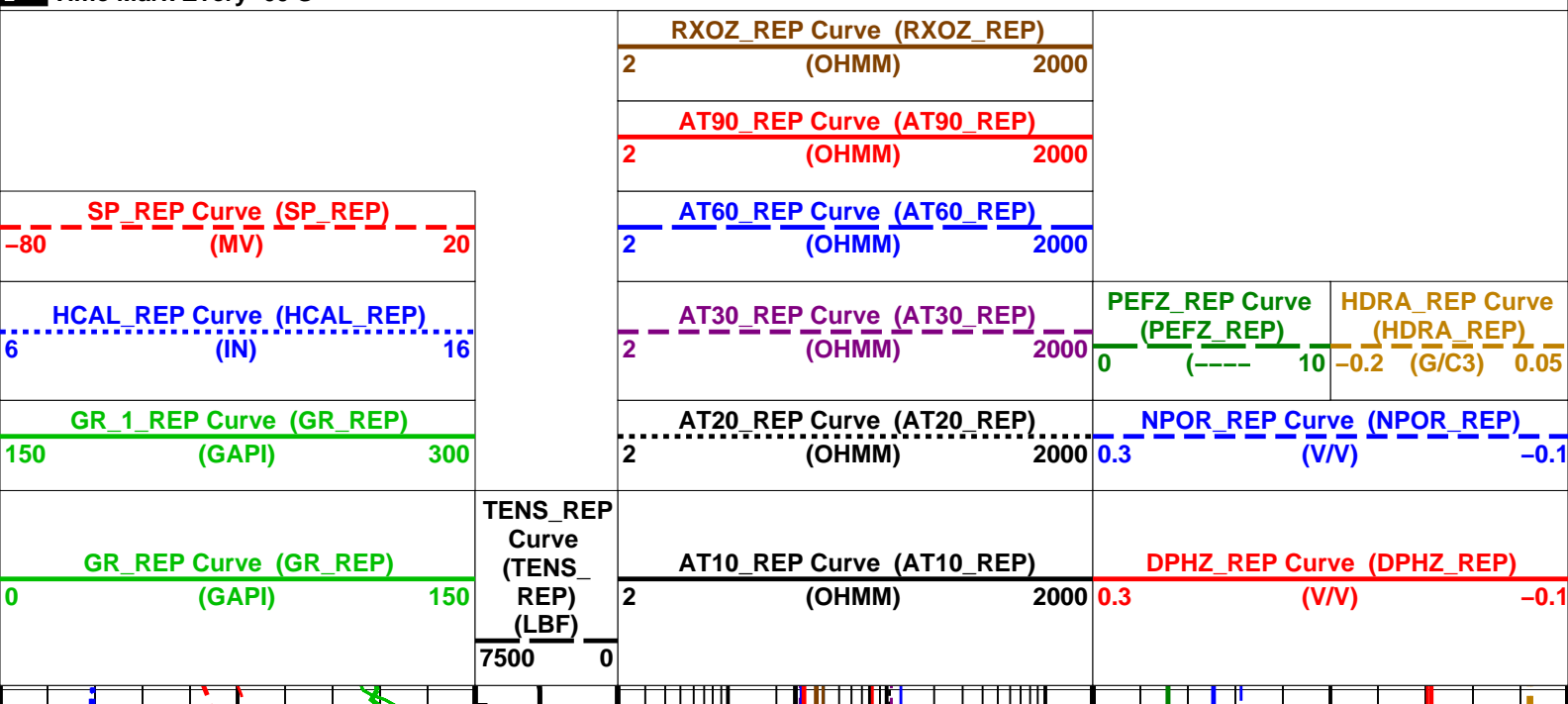
HILTH-FTB

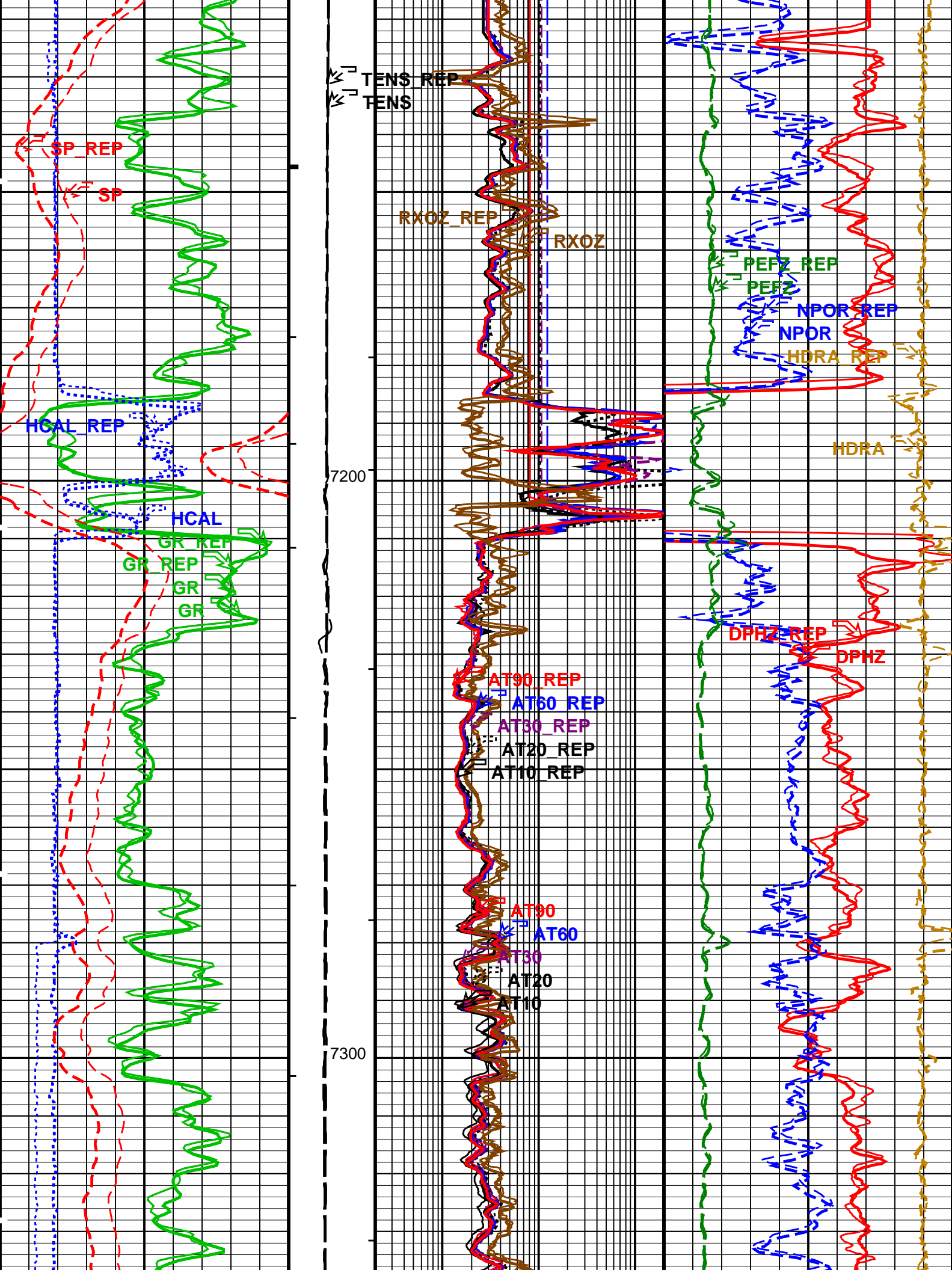
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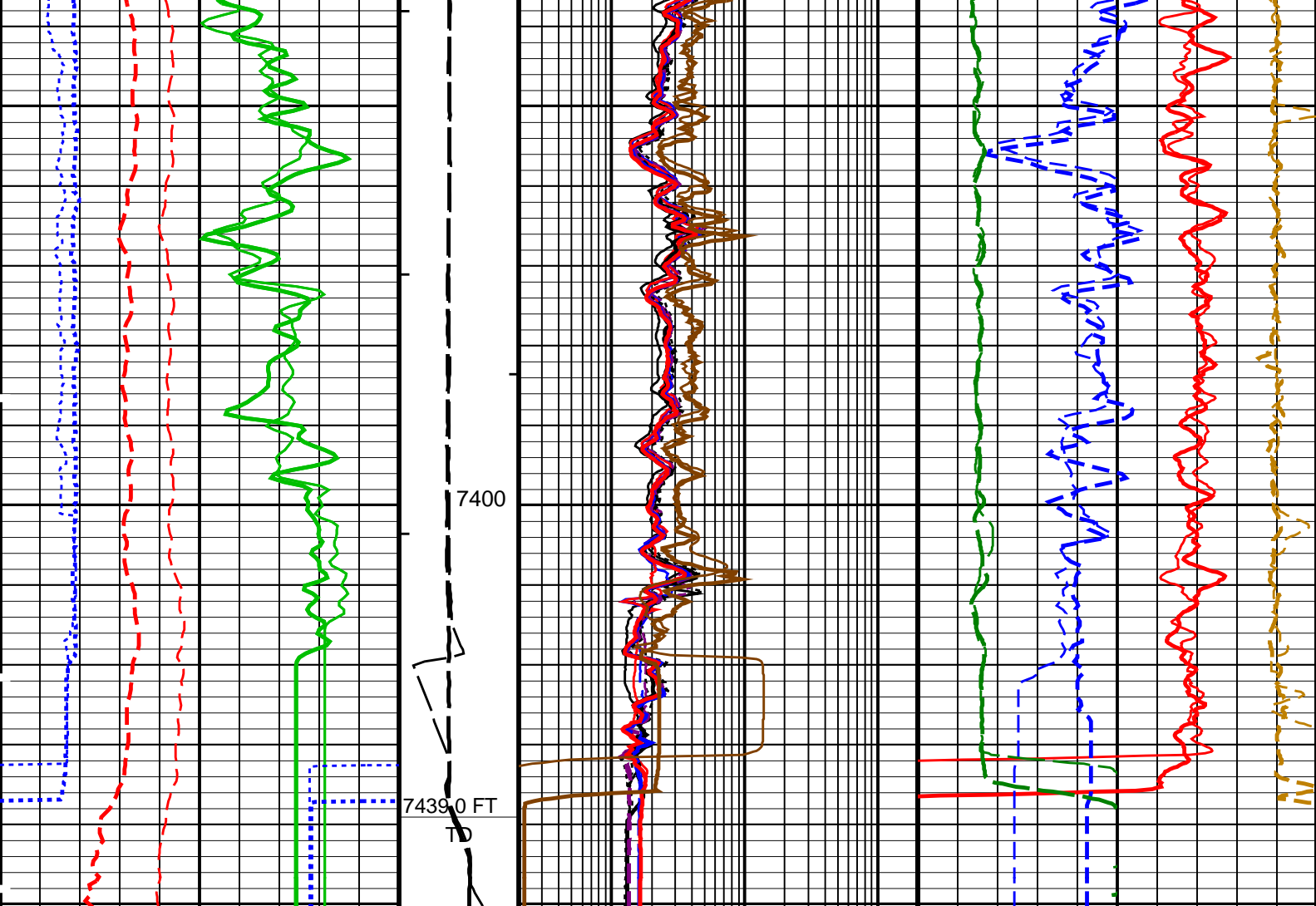
PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S







<div>GR_REP Curve (GR_REP)</div> <div>0 (GAPI) 150</div>	<div>TENS_REP Curve (TENS_REP) (LBF)</div> <div>7500 0</div>	<div>AT10_REP Curve (AT10_REP)</div> <div>2 (OHMM) 2000</div>	<div>DPHZ_REP Curve (DPHZ_REP)</div> <div>0.3 (V/V) -0.1</div>	
<div>GR_1_REP Curve (GR_REP)</div> <div>150 (GAPI) 300</div>		<div>AT20_REP Curve (AT20_REP)</div> <div>2 (OHMM) 2000</div>	<div>NPOR_REP Curve (NPOR_REP)</div> <div>0.3 (V/V) -0.1</div>	
<div>HCAL_REP Curve (HCAL_REP)</div> <div>6 (IN) 16</div>		<div>AT30_REP Curve (AT30_REP)</div> <div>2 (OHMM) 2000</div>	<div>PEFZ_REP Curve (PEFZ_REP)</div> <div>0 (----) 10</div>	<div>HDRA_REP Curve (HDRA_REP)</div> <div>-0.2 (G/C3) 0.05</div>
<div>SP_REP Curve (SP_REP)</div> <div>-80 (MV) 20</div>		<div>AT60_REP Curve (AT60_REP)</div> <div>2 (OHMM) 2000</div>		
		<div>AT90_REP Curve (AT90_REP)</div> <div>2 (OHMM) 2000</div>		
		<div>RXOZ_REP Curve (RXOZ_REP)</div> <div>2 (OHMM) 2000</div>		

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- ┐ Integrated Hole Volume Major Pip Every 100 F3
- └ Integrated Cement Volume Minor Pip Every 10 F3
- ┐ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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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	1	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)	149	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	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
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)	149	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	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.68	G/C3
MPOF	MCFL Processing Operation Mode	ON	
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	

HOLEV: Integrated Hole/Cement Volume

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	149	DEGF
FCD	Future Casing (Outer) Diameter	4.5	IN
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	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF

STI: Stuck Tool Indicator

TDL	Total Depth – Logger	7439.00	FT
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System and Miscellaneous

BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	900.00	PPM
CSIZ	Current Casing Size	8.625	IN

CWEI	Casing Weight	32.00	LB/F
DFD	Drilling Fluid Density	10.55	LB/G
DORL	Depth Offset for Repeat Analysis	8.0	FT
FLEV	Fluid Level	5.00	FT
MST	Mud Sample Temperature	69.00	DEGF
RMFS	Resistivity of Mud Filtrate Sample	1.7040	OHMM
TD	Total Depth	7439	FT

Format: TCOMBO_AIT_REP Vertical Scale: 5" per 100' Graphics File Created: 04-Oct-2008 14:03

OP System Version: 16C0-147

MCM

AIT-M 16C0-147 HILTH-FTB SRPC-3590-MAR_2008_OP16
DTC-H 16C0-147

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_008LUP	FN:10	PRODUCER	04-Oct-2008 13:51	7446.0 FT	7105.5 FT
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_009LUP	FN:12	PRODUCER	04-Oct-2008 14:03
RTB	AIT_TLD_MCFL_CNL_009LUP	FN:13	PRODUCER	04-Oct-2008 14:04

Schlumberger

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: 10-Jul-2008 6:19 Before: 3-Oct-2008 16:44							
Thru Cal Magnitude – 0	0	0.6173	0.6176	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.266	1.266	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6277	0.6279	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.7096	0.7099	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.334	1.335	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.947	1.948	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.943	1.944	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.426	1.427	N/A	N/A	N/A	V
Thru Cal Phase – 0	0	177.0	186.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 1	0	175.9	184.9	N/A	N/A	N/A	DEG
Thru Cal Phase – 2	0	172.4	181.4	N/A	N/A	N/A	DEG
Thru Cal Phase – 3	0	171.7	180.7	N/A	N/A	N/A	DEG
Thru Cal Phase – 4	0	165.6	174.6	N/A	N/A	N/A	DEG
Thru Cal Phase – 5	0	163.9	172.9	N/A	N/A	N/A	DEG
Thru Cal Phase – 6	0	164.0	173.0	N/A	N/A	N/A	DEG
Thru Cal Phase – 7	0	163.1	172.1	N/A	N/A	N/A	DEG
Array Induction Tool – M Wellsite Calibration – Electronics Calibration Check – Auxiliary							
Master: 10-Jul-2008 6:19 Before: 3-Oct-2008 16:44							
Array Induction SPA Plus	991.0	991.3	991.2	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	0.4101	0.4101	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9170	0.9181	0.9181	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	0.0004107	0.0004009	N/A	N/A	N/A	V

Array Induction Tool – M Wellsite Calibration – Test Loop Gain Correction

Master: 10-Jul-2008 6:19							
Test Loop Gain Correctio – 0	0	1.016	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	1.017	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	1.018	N/A	N/A	N/A	N/A	V

Test Loop Gain Correctio – 2	0	1.018	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	0.9962	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 5	0	0.9846	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 6	0	0.9959	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 7	0	1.010	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 0	0	0.6424	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 1	0	0.7165	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 2	0	0.1441	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 3	0	0.1525	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 4	0	0.1476	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 5	0	0.1813	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 6	0	0.5236	N/A	N/A	N/A	N/A	DEG
Test Loop Gain Correctio – 7	0	0.2401	N/A	N/A	N/A	N/A	DEG

Array Induction Tool – M Wellsite Calibration – Sonde Error Correction

Master: 10-Jul-2008 6:19

R Sonde Error Correction – 0	0	-110.1	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	168.5	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	103.0	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	58.82	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	25.67	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	14.42	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	9.422	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	-2.069	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	324.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	59.73	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	-16.09	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	47.54	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	21.41	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	12.12	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	-3.523	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	5.004	N/A	N/A	N/A	N/A	MM/M

Array Induction Tool – M Wellsite Calibration – Mud Gain Correction

Master: 10-Jul-2008 6:19

Coarse – Mag, Real, Imag – 0	0	1.145	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 1	0	1.145	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 2	0	1.145	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 0	0	1.145	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 1	0	1.145	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 2	0	1.145	N/A	N/A	N/A	N/A

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Stab Measurement Summary

Before: 3-Oct-2008 16:53

BS Window Ratio	0.7400	N/A	0.7358	N/A	N/A	N/A	
BS Window Sum	25840	N/A	25820	N/A	N/A	N/A	CPS
SS Window Ratio	0.4826	N/A	0.4813	N/A	N/A	N/A	
SS Window Sum	13040	N/A	13050	N/A	N/A	N/A	CPS
LS Window Ratio	0.3038	N/A	0.3012	N/A	N/A	N/A	
LS Window Sum	1342	N/A	1340	N/A	N/A	N/A	CPS

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Photo-multiplier High Voltages Calibrations

Before: 3-Oct-2008 16:53

BS PM High Voltage (Command)	1407	N/A	1411	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1459	N/A	1452	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1200	N/A	1205	N/A	N/A	N/A	V

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration

Before: 3-Oct-2008 16:53

BS Crystal Resolution	10.65	N/A	10.88	N/A	N/A	N/A	%
SS Crystal Resolution	9.837	N/A	9.691	N/A	N/A	N/A	%
LS Crystal Resolution	7.726	N/A	7.970	N/A	N/A	N/A	%

High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration

Before: 3-Oct-2008 16:54

Raw B0 Resistivity	3875	N/A	3859	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3805	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3808	N/A	N/A	N/A	OHMM

High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration

Before: 3-Oct-2008 16:56

HILT Caliper Zero Measurement	8.000	N/A	8.213	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.17	N/A	N/A	N/A	IN

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration

























Before: 3-Oct-2008 16:57

Gamma Ray Background	30.00	N/A	68.30	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkg)	175.9	N/A	175.9	N/A	N/A	15.99	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement

Master: 16–Aug–2008 15:44 Before: 3–Oct–2008 16:56								
CNTC Background	28.38	28.38	28.81	N/A	N/A	4.257	CPS	
CFTC Background	30.02	30.02	30.37	N/A	N/A	4.503	CPS	
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement								
Master: 16–Aug–2008 15:44								
Thermal Near Corr. (Tank)	5800	5478	N/A	N/A	N/A	N/A	CPS	
Thermal Far Corr. (Tank)	2400	2320	N/A	N/A	N/A	N/A	CPS	
CNTC/CFTC (Tank)	2.159	2.361	N/A	N/A	N/A	N/A		
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration								
Before: 4–Oct–2008 13:06								
Z–Axis Acceleration	32.19	N/A	32.04	N/A	N/A	N/A	F/S2	
High resolution Integrated Logging Tool–DTS Master Calibration – Inversion results								
Master: 12–Sep–2008 13:10								
Rho Aluminum	2.596	2.600	--	--	--	--	G/C3	
Rho Magnesium	1.686	1.687	--	--	--	--	G/C3	
Pe Aluminum	2.570	2.562	--	--	--	--		
Pe Magnesium	2.650	2.604	--	--	--	--		
High resolution Integrated Logging Tool–DTS Master Calibration – Deviation Summary								
Master: 12–Sep–2008 13:10								
BS Average Deviation	0	0.5736	--	--	--	--	%	
BS Max Deviation	0	1.141	--	--	--	--	%	
SS Average Deviation	0	0.3278	--	--	--	--	%	
SS Max Deviation	0	0.7510	--	--	--	--	%	
LS Average Deviation	0	0.6630	--	--	--	--	%	
LS Max Deviation	0	1.901	--	--	--	--	%	
The GLS–VJ source activity is acceptable.								
The HGNS Neutron Master Calibration was done with the following parameters :								
NCT–B Water Temperature	75.0	DEGF.						
Thermal Housing Size	3.373	IN.						
NSR–F serial number	2549							

Array Induction Tool – M / Equipment Identification			
Primary Equipment:			
Rm/SP Bottom Nose		AMRM – A	
Array Induction Sonde		AMIS – A	
Auxiliary Equipment:		266	

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	0.6173		0.6100	177.0		197.0
	Before	0.6176			186.0		
1	Master	1.266		1.270	175.9		196.0
	Before	1.266			184.9		
2	Master	0.6277		0.6200	172.4		192.0
	Before	0.6279			181.4		
3	Master	0.7096		0.7000	171.7		191.0
	Before	0.7099			180.7		
4	Master	1.334		1.340	165.6		185.0
	Before	1.335			174.6		
5	Master	1.947		1.960	163.9		182.0
	Before	1.948			172.9		







6	Master	1.943		1.960	164.0		181.0
	Before	1.944			173.0		
7	Master	1.426		1.410	163.1		175.0
	Before	1.427			172.1		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 10-Jul-2008 6:19				Before: 3-Oct-2008 16:44			

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			991.3	Master			0.4101		
Before			991.2	Before			0.4101		
		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			0.9181	Master			0.0004107		
Before			0.9181	Before			0.0004009		
		0.8710 (Minimum)	0.9170 (Nominal)	0.9630 (Maximum)			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Master: 10-Jul-2008 6:19				Before: 3-Oct-2008 16:44					

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	1.016				0.6424			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.017				0.7165			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.018				0.1441			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.012				0.1525			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	0.9962				0.1476			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	0.9846				0.1813			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	0.9959				0.5236			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.010				0.2401			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Master: 10-Jul-2008 6:19								

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	-110.1				324.4			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	168.5				59.73			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	103.0				-16.09			
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)

3	58.82	39.00 (Minimum)	64.00 (Nominal)	89.30 (Maximum)	47.54	-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	25.67				21.41			
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	14.42				12.12			
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	9.422				-3.523			
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-2.069				5.004			
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
Master: 10-Jul-2008 6:19								

Array Induction Tool – M Wellsite Calibration								
Mud Gain Correction								
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag		
0	1.145				1.145			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	1.145				1.145			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	1.145				1.145			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 10-Jul-2008 6:19								

Array Induction Tool – M Master Calibration							
Electronics Calibration Check – Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	0.6173		0.6100	177.0		197.0
1	Master	1.266		1.270	175.9		196.0
2	Master	0.6277		0.6200	172.4		192.0
3	Master	0.7096		0.7000	171.7		191.0
4	Master	1.334		1.340	165.6		185.0
5	Master	1.947		1.960	163.9		182.0
6	Master	1.943		1.960	164.0		181.0
7	Master	1.426		1.410	163.1		175.0
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 10-Jul-2008 6:19							

Array Induction Tool – M Master Calibration							
Electronics Calibration Check – Auxiliary							
Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master	<div><div></div></div>		991.3	Master	<div><div></div></div>		0.4101
	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	<div><div></div></div>		0.9181	Master	<div><div></div></div>		0.0004107
	0.8710 (Minimum)	0.9170 (Nominal)	0.9630 (Maximum)		-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Master: 10-Jul-2008 6:19							

Array Induction Tool – M Master Calibration					
Test Loop Gain Correction					
Idx	Value	Test Loop Gain Correction Magnitude	Value	Test Loop Gain Correction Phase DEG	
0	1.016		0.6424		

	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.017				0.7165		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.018				0.1441		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.012				0.1525		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	0.9962				0.1476		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	0.9846				0.1813		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	0.9959				0.5236		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.010				0.2401		
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Master: 10-Jul-2008 6:19							

Array Induction Tool – M Master Calibration							
Sonde Error Correction							
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M	
0	-110.1				324.4		
	-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	168.5				59.73		
	114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	103.0				-16.09		
	66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	58.82				47.54		
	39.00 (Minimum)	64.00 (Nominal)	89.30 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	25.67				21.41		
	15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	14.42				12.12		
	4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	9.422				-3.523		
	5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-2.069				5.004		
	-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
Master: 10-Jul-2008 6:19							

Array Induction Tool – M Master Calibration							
Mud Gain Correction							
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag	
0	1.145				1.145		
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	1.145				1.145		
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	1.145				1.145		
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

High resolution Integrated Logging Tool-DTS / Equipment Identification

Primary Equipment:

HILT high-Resolution Mechanical Sonde
 HILT Rxo Gamma-ray Device
 HILT Micro Cylindrically Focused Log Dev
 GR Logging Source
 HILT High Res. Control Cartridge
 HILT Gamma-Ray Neutron Sonde-DTS
 HGNS Gamma-Ray Device
 HGNS Neutron Detector with Alpha Source

HRMS – H
 HRGD – H
 MCFL – H
 GLS – VJ
 HRCC – H
 HGNS – H
 HGR –
 HCNT – H

1808







Auxiliary Equipment:

Neutron Calibration Tank
 Gamma Source Radioactive
 HGNS Housing

NCT – B
 GSR – U/Y
 HGNH –

High resolution Integrated Logging Tool-DTS Wellsite Calibration




Stab Measurement Summary

Phase	BS Window Ratio		Value	Phase	SS Window Ratio		Value	Phase	LS Window Ratio		Value
Before			0.7358	Before			0.4813	Before			0.3012
	0.7030 (Minimum)	0.7400 (Nominal)	0.7770 (Maximum)		0.4585 (Minimum)	0.4826 (Nominal)	0.5068 (Maximum)		0.2887 (Minimum)	0.3038 (Nominal)	0.3190 (Maximum)
Phase	BS Window Sum CPS		Value	Phase	SS Window Sum CPS		Value	Phase	LS Window Sum CPS		Value
Before			25820	Before			13050	Before			1340
	24550 (Minimum)	25840 (Nominal)	27140 (Maximum)		12390 (Minimum)	13040 (Nominal)	13690 (Maximum)		1275 (Minimum)	1342 (Nominal)	1410 (Maximum)

Before: 3-Oct-2008 16:53

High resolution Integrated Logging Tool-DTS Wellsite Calibration




Photo-multiplier High Voltages Calibrations

Phase	BS PM High Voltage (Command) V		Value	Phase	SS PM High Voltage (Command) V		Value	Phase	LS PM High Voltage (Command) V		Value
Before			1411	Before			1452	Before			1205
	1307 (Minimum)	1407 (Nominal)	1507 (Maximum)		1359 (Minimum)	1459 (Nominal)	1559 (Maximum)		1100 (Minimum)	1200 (Nominal)	1300 (Maximum)

Before: 3-Oct-2008 16:53

High resolution Integrated Logging Tool-DTS Wellsite Calibration




Crystal Quality Resolutions Calibration

Phase	BS Crystal Resolution %		Value	Phase	SS Crystal Resolution %		Value	Phase	LS Crystal Resolution %		Value
Before			10.88	Before			9.691	Before			7.970
	9.651 (Minimum)	10.65 (Nominal)	11.65 (Maximum)		8.837 (Minimum)	9.837 (Nominal)	10.84 (Maximum)		6.726 (Minimum)	7.726 (Nominal)	8.726 (Maximum)

Before: 3-Oct-2008 16:53

High resolution Integrated Logging Tool-DTS Wellsite Calibration



MCFL Calibration

Phase	Raw B0 Resistivity OHMM		Value	Phase	Raw B1 Resistivity OHMM		Value	Phase	Raw B2 Resistivity OHMM		Value
Before			3859	Before			3805	Before			3808
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)

Before: 3-Oct-2008 16:54

High resolution Integrated Logging Tool-DTS Wellsite Calibration




HILT Caliper Calibration

Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			8.213	Before			12.17
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)

Before: 3-Oct-2008 16:56

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
											

Before: 3-Oct-2008 16:57

Master: 16-Aug-2008 15:44 Before: 3-Oct-2008 16:56

Master: 16-Aug-2008 15:44

Before: 4-Oct-2008 13:06

Master: 12-Sep-2008 13:10Master: 12-Sep-2008 13:10Master: 16-Aug-2008 15:44High resolution Integrated Logging Tool-D

Phase	Thermal Near Corr. (Tank) CPS		Value	Phase	Thermal Far Corr. (Tank) CPS		Value	Phase	CNTC/CFTC (Tank)		Value
Master	<div><div></div></div>		5478	Master	<div><div></div></div>		2320	Master	<div><div></div></div>		2.361
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)		1900 (Minimum)	2400 (Nominal)	2900 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)
Master: 16-Aug-2008 15:44											

DTS Telemetry Tool / Equipment Identification

Primary Equipment:
DTC-H Auxiliary Cartridge DTCH – A
DTC-H Telemetry Cartridge DTCH – A

Auxiliary Equipment:
DTCH Telemetry Cartridge Housing ECH – KC

Company: ORION ENERGY PARTNERS

Schlumberger

Well: KOKOPELLI FED 18-213D
Field: KOKOPELLI
County: GARFIELD
State: COLORADO

PLATFORM EXPRESS
ARRAY INDUCTION TOOL
GAMMA RAY – SP