

Company: North East Natural Energy LLC

Well: Boguess 17H

Field: Wildcat

County: Monongalia State: West Virginia

PLATFORM EXPRESS
TRIPLE COMBO / LITHO-DENSITY / COMPENSATED NEUTR
RESISTIVITY / GAMMA RAY / CALIPER

County: Monongalia
Field: Wildcat
Location: Lat and Long:
Well: Boguess 17H
Company: North East Natural Energy LLC

Lat and Long:	Elev.:	K.B.	1293.00 ft
39:40:12.6 N		G.L.	1268.00 ft
80:5:35.8 W		D.F.	1293.00 ft
Permanent Datum:	Ground Level	Elev.:	1268.00 f
Log Measured From:	Kelly Bushing	25.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	District	Township:	Quad
47-061-01812-00-00	Clay	Core	Blacksville

Logging Date	15-Apr-2019		
Run Number	1A		
Depth Driller	8400.00 ft		
Schlumberger Depth	8400.00 ft		
Bottom Log Interval	8400.00 ft		
Top Log Interval	2543.00 ft		
Casing Driller Size @ Depth	9.625 in @ 2538.00 ft		
Casing Schlumberger	2543 ft		
Bit Size	8.5 in		
Type Fluid In Hole	Water		
Density	9.5 lbm/gal		
Fluid Loss	PH		
MUD			
Source of Sample	Active Tank		
RM @ Meas Temp	0.04 ohm.m @ 103 degF		
RMF @ Meas Temp	0.03 ohm.m @ 103 degF		
RMC @ Meas Temp	0.04 ohm.m @ 102 degF		
Source RMF	RMC	Pressed	
RM @ BHT	0.04 @ 158	0.02 @ 158	
Max Recorded Temperatures	158 degF		
Circulation Stopped	14-Apr-2019	23:00:00	
Logger on Bottom	15-Apr-2019	09:04:00	
Unit Number	3703	Bradford, PA	
Recorded By	Elizabeth Morrone		
Witnessed By	BJ Varney		

Disclaimer

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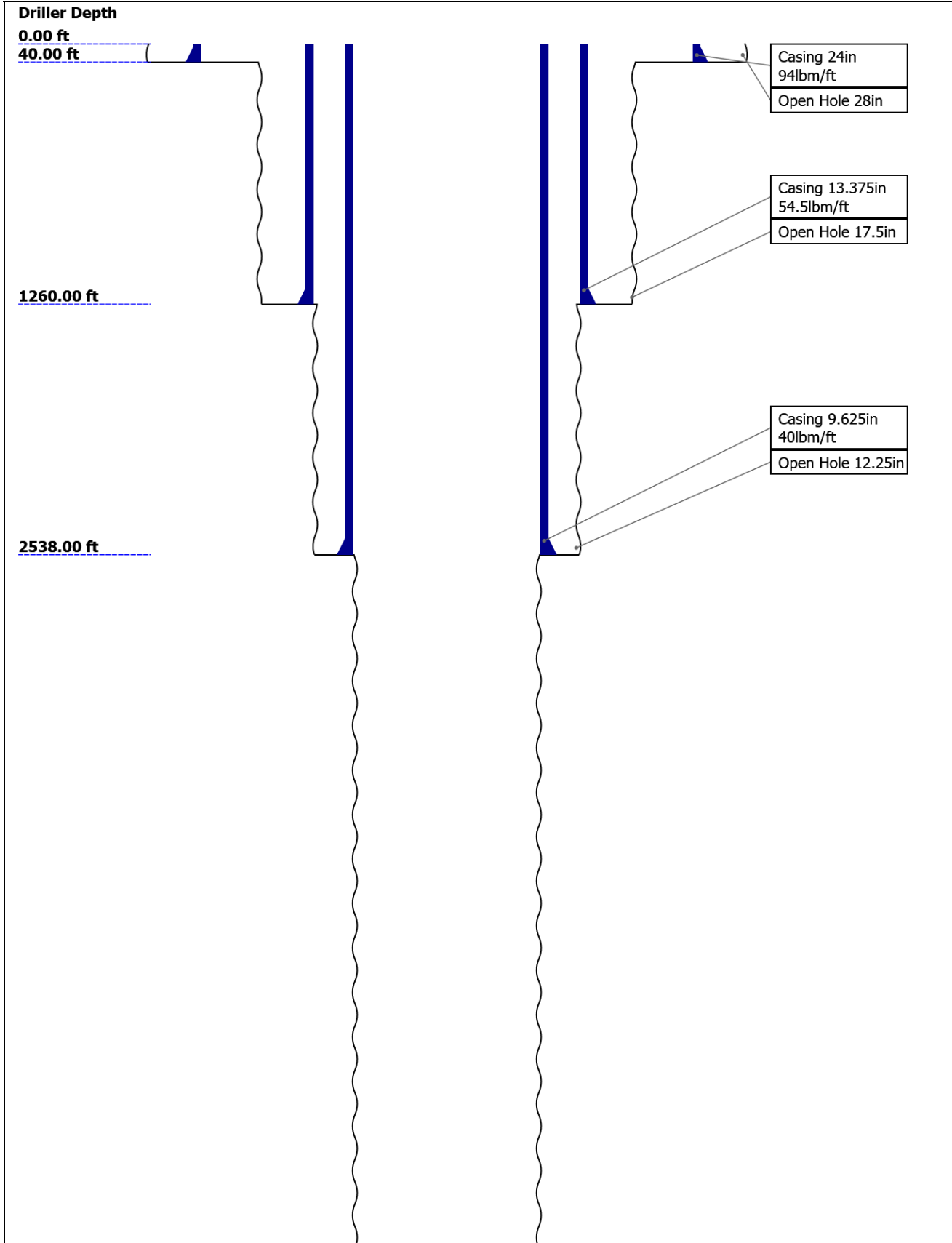
Contents

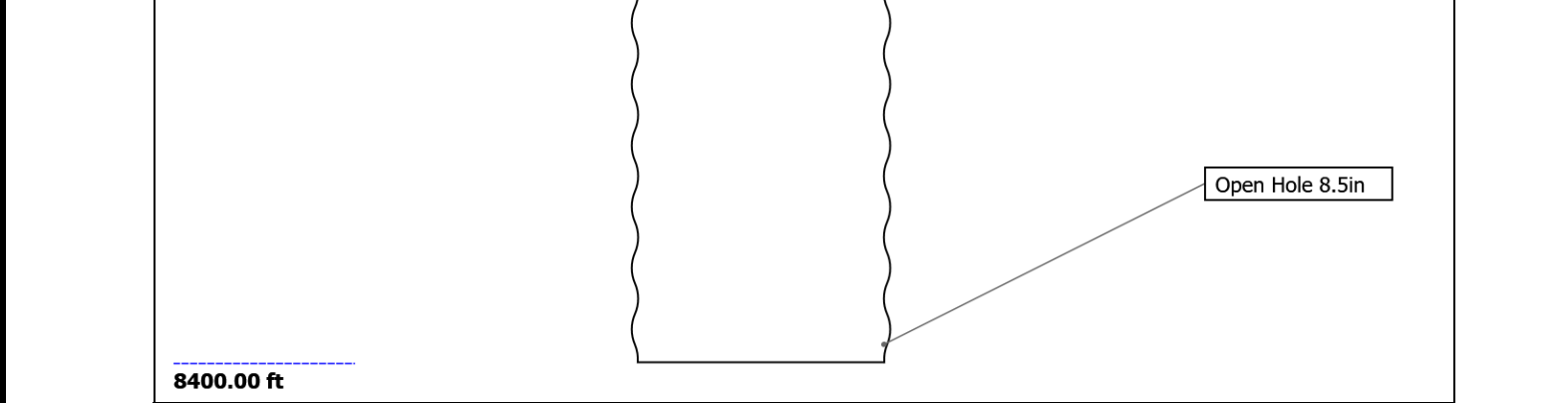
- 1. Header
- 2. Disclaimer
- 3. Contents
- 4. Well Sketch
- 5. Borehole Size/Casing/Tubing Record
- 6. Remarks and Equipment Summary
- 7. Depth Summary
- 8. Main Pass MAIN PASS 2"=100'
 - 8.1 Integration Summary
 - 8.2 Software Version
 - 8.3 Composite Summary
 - 8.4 Log (BRADFORD TCOM)
 - 8.5 Parameter Listing
- 9. Main Pass MAIN PASS 5"=100'
 - 9.1 Integration Summary
 - 9.2 Software Version
 - 9.3 Composite Summary

- 10.5 Parameter Listing
- 11. Tail

- 9.4 Log (BRADFORD TCOM)
- 9.5 Parameter Listing
- 10. 1A REPEAT PASS 5"=100'
- 10.1 Integration Summary
- 10.2 Software Version
- 10.3 Composite Summary
- 10.4 Log (BRADFORD TCOM)

Well Sketch



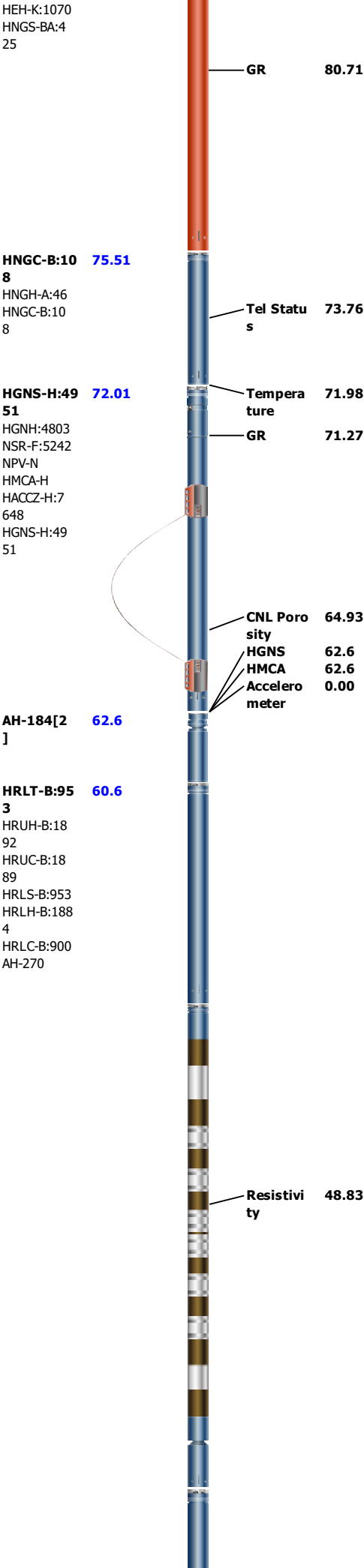


Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	28	17.5	12.25	8.5		
Top Driller (ft)	0	40	1260	2538		
Top Logger (ft)	0	40	1260	2543		
Bottom Driller (ft)	40	1260	2538	8400		
Bottom Logger (ft)	40	1260	2543	8400		
Casing						
Size (in)	24	13.375	9.625			
Weight (lbm/ft)	94	54.5	40			
Inner Diameter (in)	23.272	12.615	8.835			
Grade	N/A	N/A	N/A			
Top Driller (ft)	0	0	0			
Top Logger (ft)	0	0	0			
Bottom Driller (ft)	40	1260	2538			
Bottom Logger (ft)	40	1260	2543			

Remarks and Equipment Summary

1A: Toolstring				1A: Remarks	
Equip name Length LEH-MT 99.63 MP name Offset LEH-MT Mud Tem perature 97.69 SAH-F 96.48 AH-369 91.63 EDTC-B:92 31 90.2 EDTH-B:929 1 EDTG-B:794 27 EDTC-B:923 1 HNGS-BA:4 25 83.7 CTEM 86.7 ACCZ 0.00 HV 0.00 Gamma R 84.83 ay TelStatu 83.7 s	Thank you for choosing Schlumberger!				
	Crew: Morrone, Kornacki, Shirley				
	Tool ran per tool sketch				



AH-184[1 36.4]

HDRS-H:3 34.4

791
ECH-MEB:3
963
HRCC-H:49
45
HRMS-H:37
91
Long Spacing
HRGD-H:39
21
GSR-J:5542
Short Spacing
Backscatter
GPV-Q

HRCC 30.4

MCFL 24.97
Caliper 24.48
TLD Density 24.09

NEXT-A:4 22.16

NEXH-A:4
PNG-G
NEXS-A:4

Spect 16.28

Status 14.87

ILE-F 8.46

BNS-STD 0.46

Head Tension
TOOL_ZERO

Lengths are in ft
Maximum Outer Diameter = 6.370 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

1A

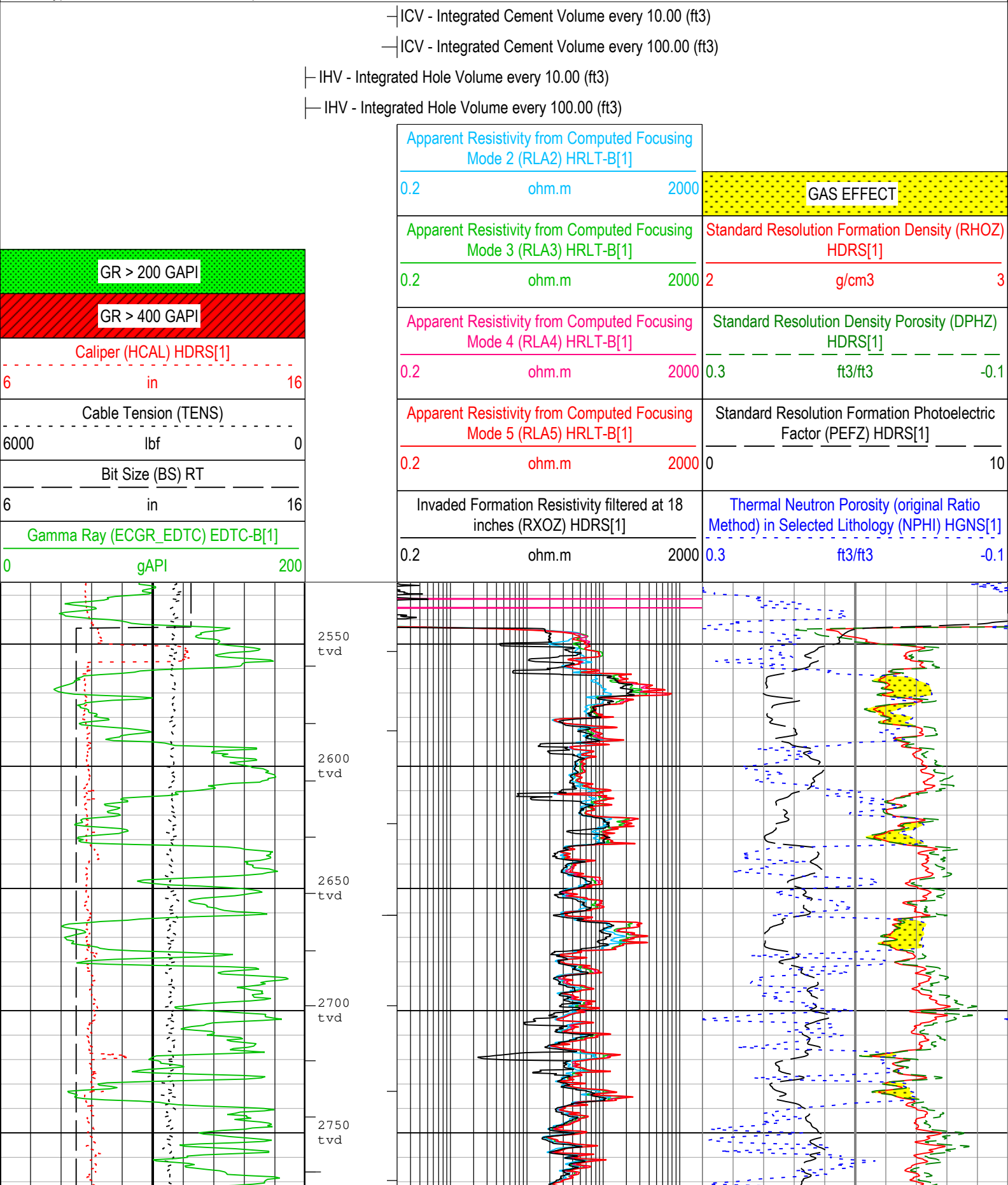
Depth Measuring Device

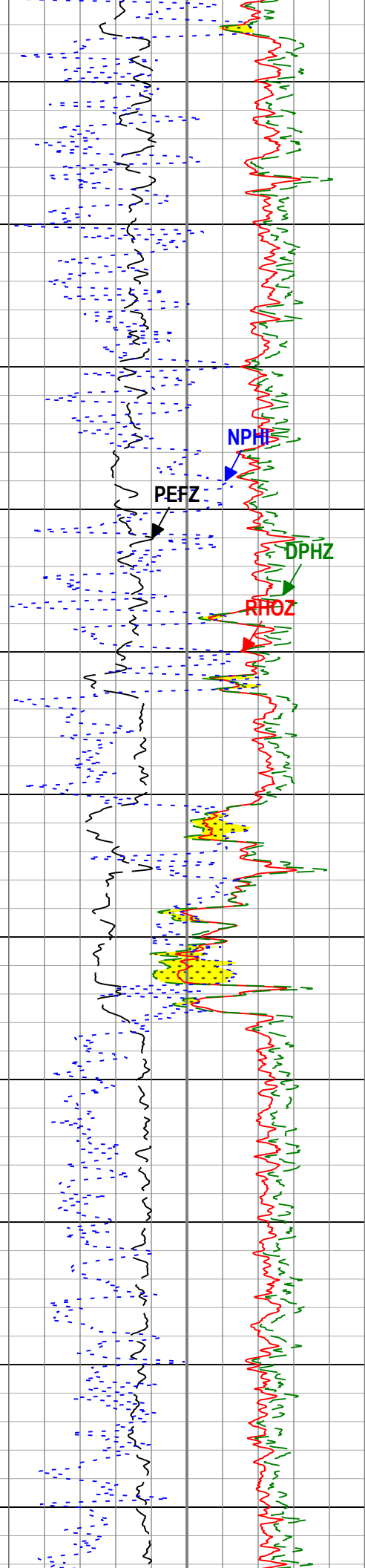
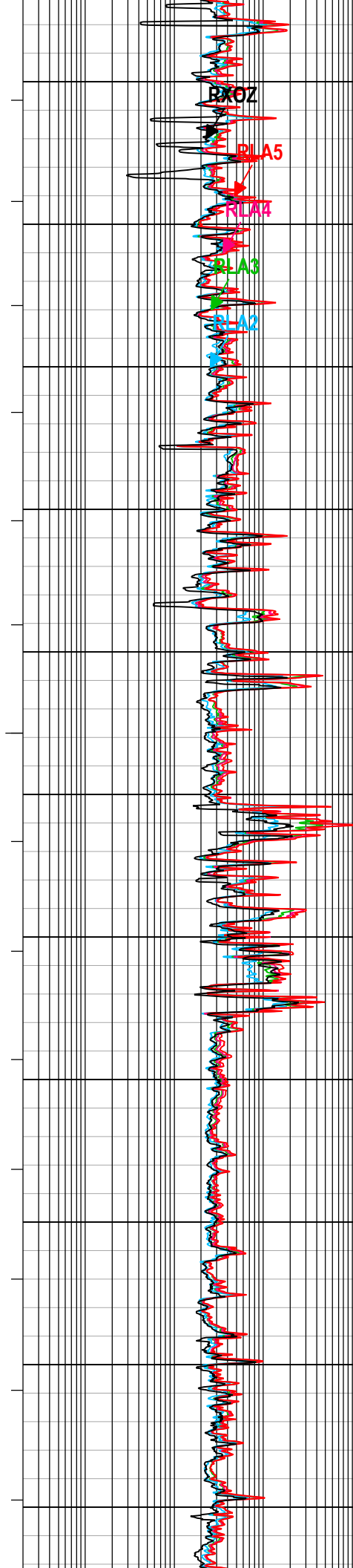
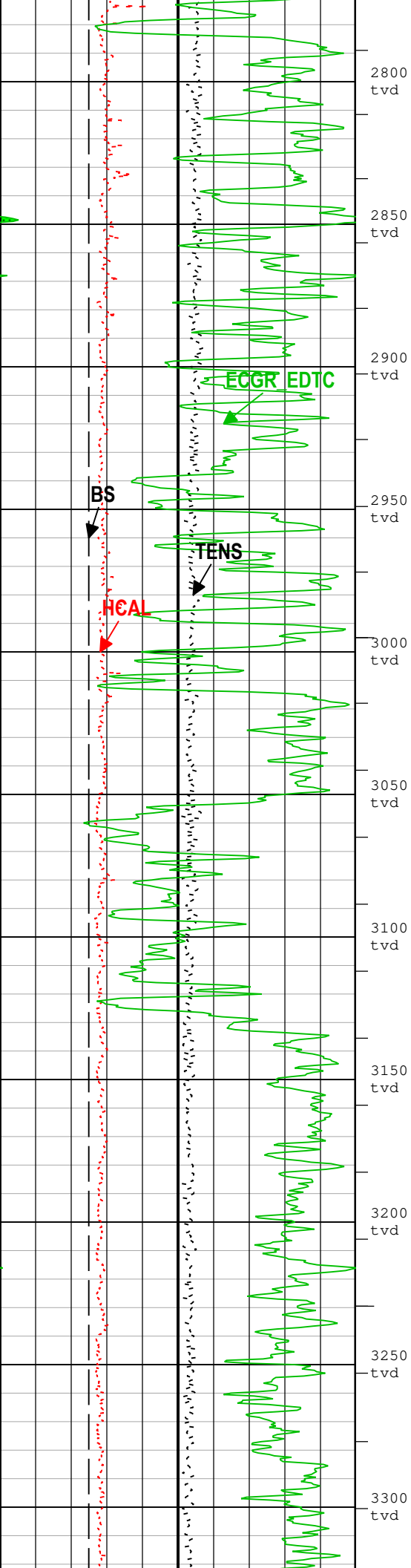
Type	IDW-JA								
Serial Number	7173								
Calibration Date	20-Mar-2018								
Calibrator Serial Number	IDWC-C-57								
Calibration Cable Type	7-46 AXS								
Wheel Correction 1	-5								
Wheel Correction 2	-3								
Tension Device									
Type	CMTD-B/A								
Serial Number	5054								
Calibration Date	08-Jan-2019								
Calibrator Serial Number	232970A								
Number of Calibration Points	10								
Calibration Root Mean Square Error	13								
Calibration Peak Error	22								
Logging Cable									
Type	7-46A-XS								
Serial Number	U715008								
Length	11750.00 ft								
Conveyance Type	Wireline								
Rig Type	Land								
1A:Depth Control Parameters		Depth Control Remarks							
Log Sequence	First Log In the Well	All Schlumberger depth control procedures followed							
Rig Up Length At Surface		IDW used as primary depth control							
Rig Up Length At Bottom		Z-Chart used as secondary depth control							
Rig Up Length Correction									
Stretch Correction									
Tool Zero Check At Surface									
Main Pass									
MAIN PASS 2"=100'									
Integration Summary									
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit					
IHV	Integrated Hole Volume	GCSE_UP_PASS, GCSE_DOWN_PASS:1A	2498.85	ft3					
ICV	Integrated Cement Volume	GCSE_UP_PASS, GCSE_DOWN_PASS:1A, FCD	1533.39	ft3					
Software Version									
Acquisition System			Version						
Maxwell 2019			9.0.106845.3100						
Composite Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[2]:Up	Up	8266.17 ft	8396.38 ft	15-Apr-2019 7:56:45 AM	15-Apr-2019 8:17:05 AM	ON	2.60 ft	Yes
1A	Log[8]:Up	Up	8021.42 ft	8407.18 ft	15-Apr-2019 9:44:04 AM	15-Apr-2019 10:51:09 AM	ON	3.12 ft	Yes

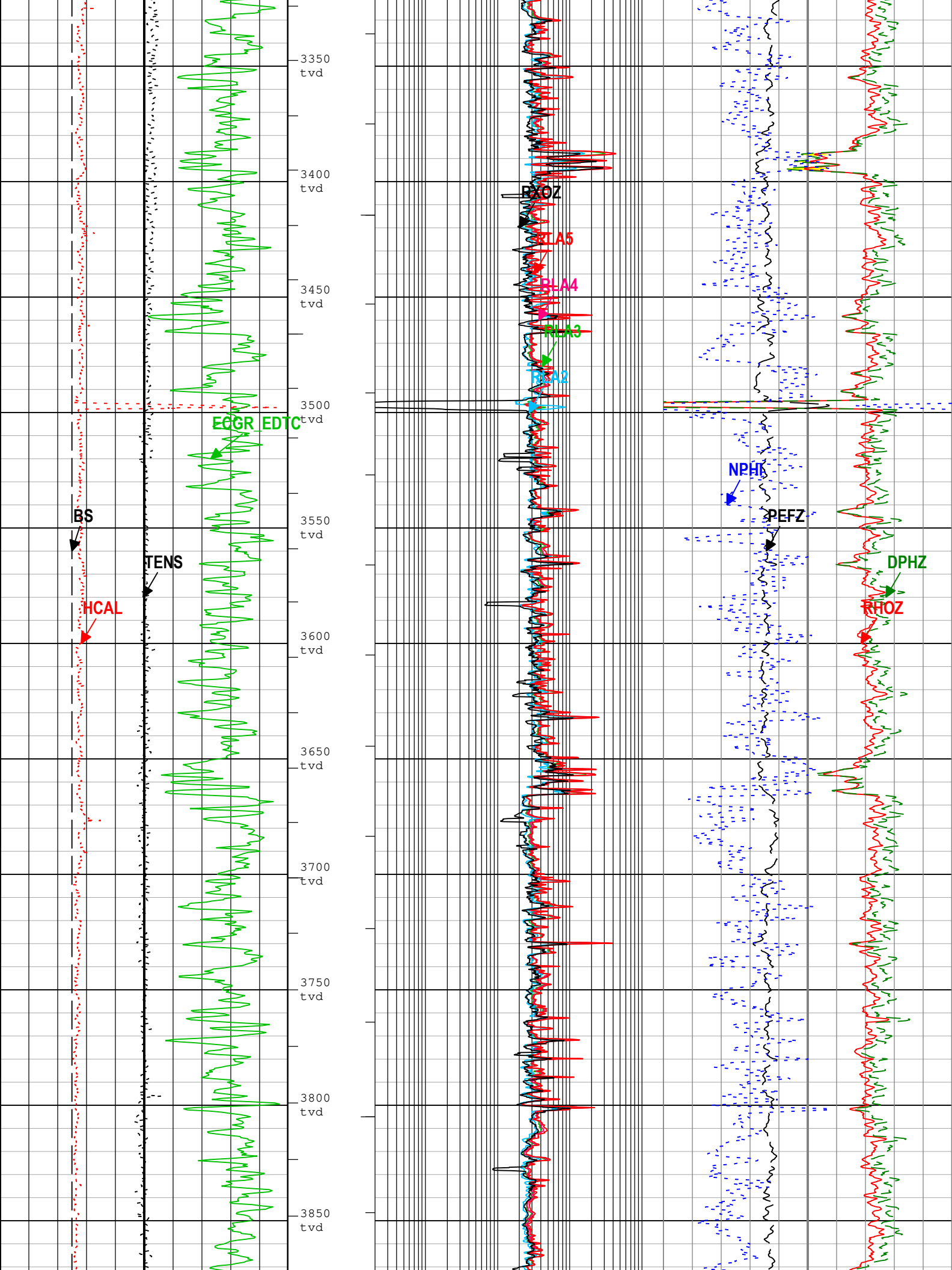
All depths are referenced to toolstring zero

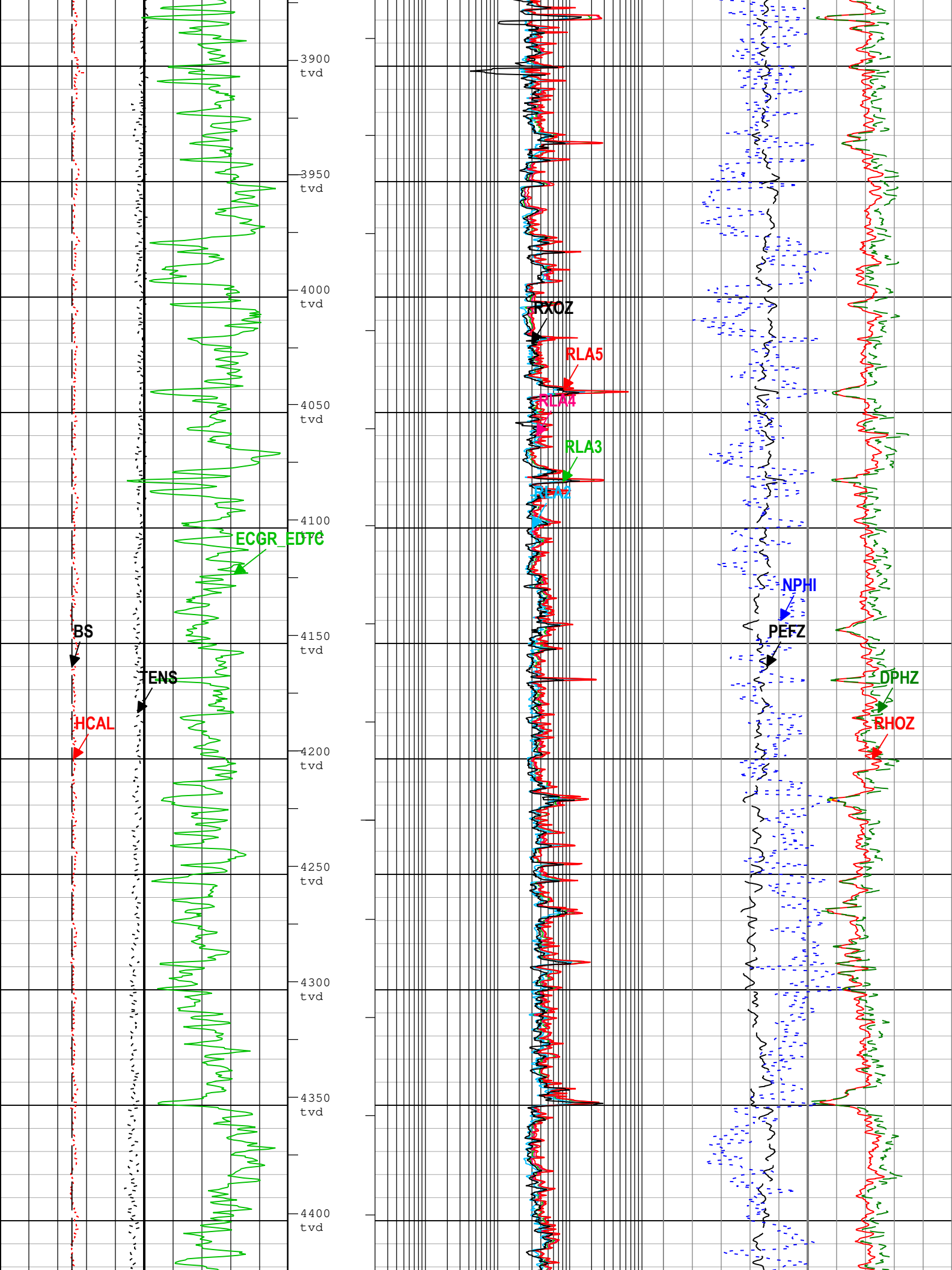
Log	Company:North East Natural Energy LLC	Well:Boggess 17H
		Main Pass:S024

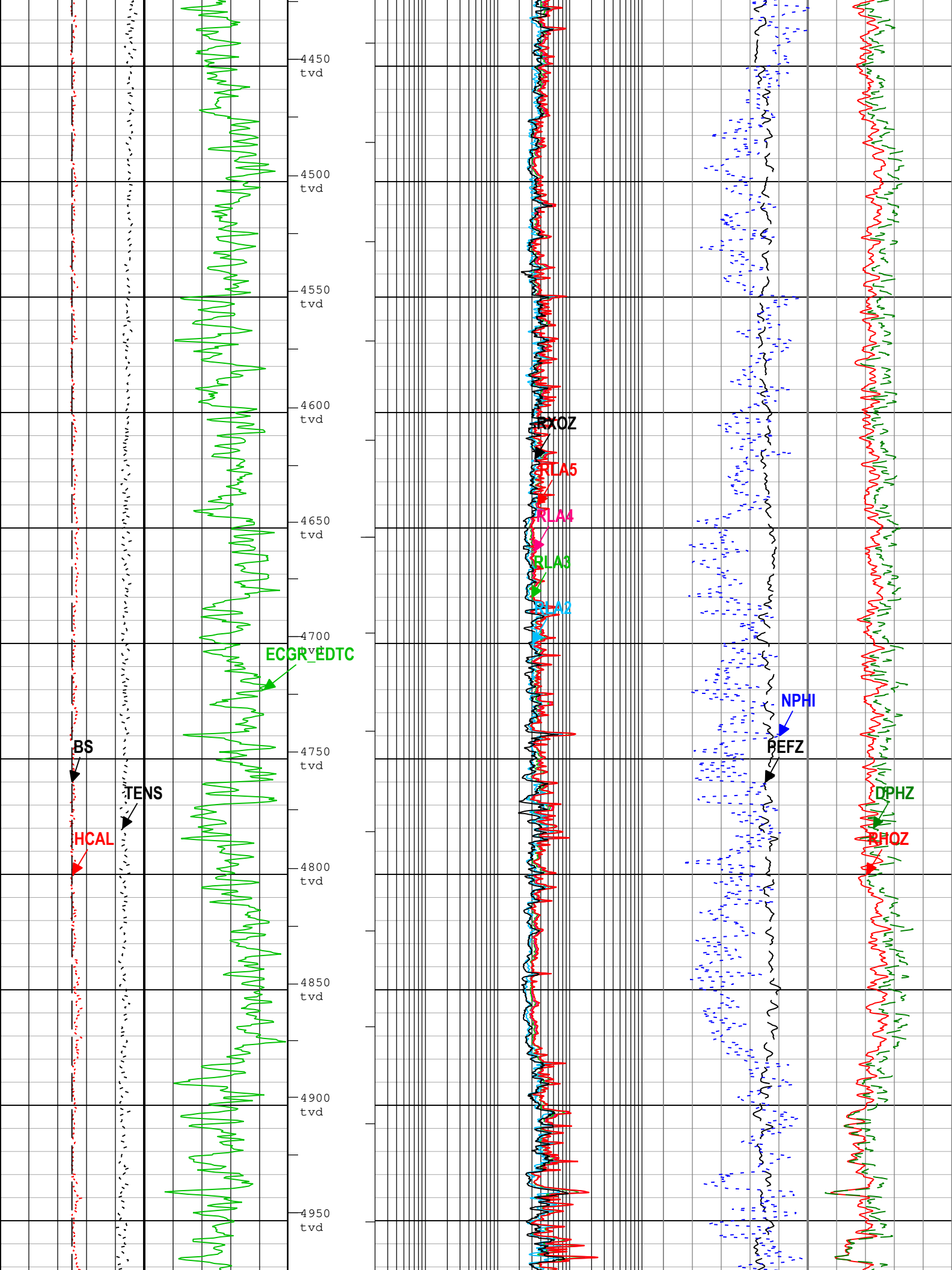
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Index Type: TVD Creation Date: 18-Apr-2019 11:50:27

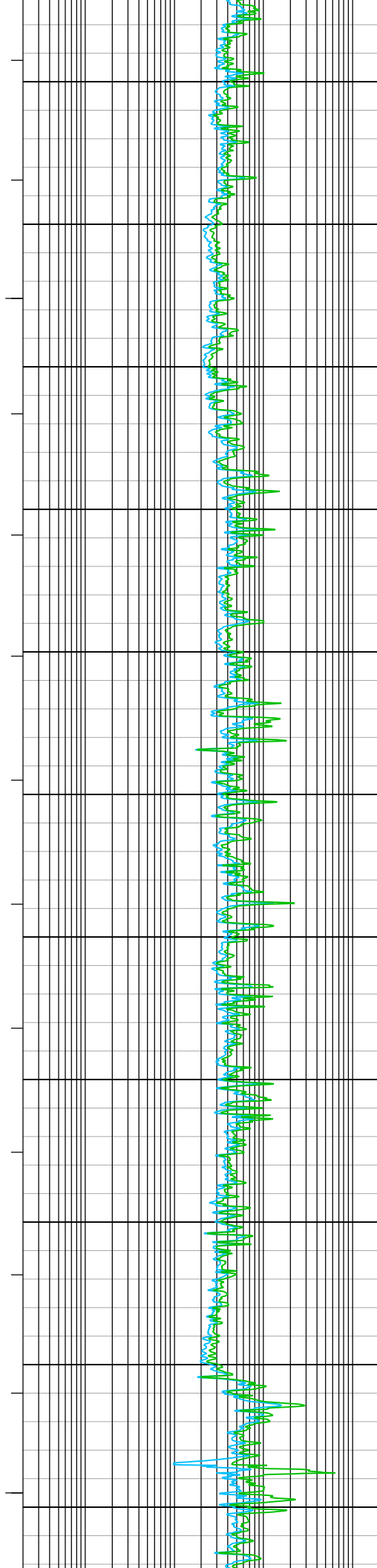
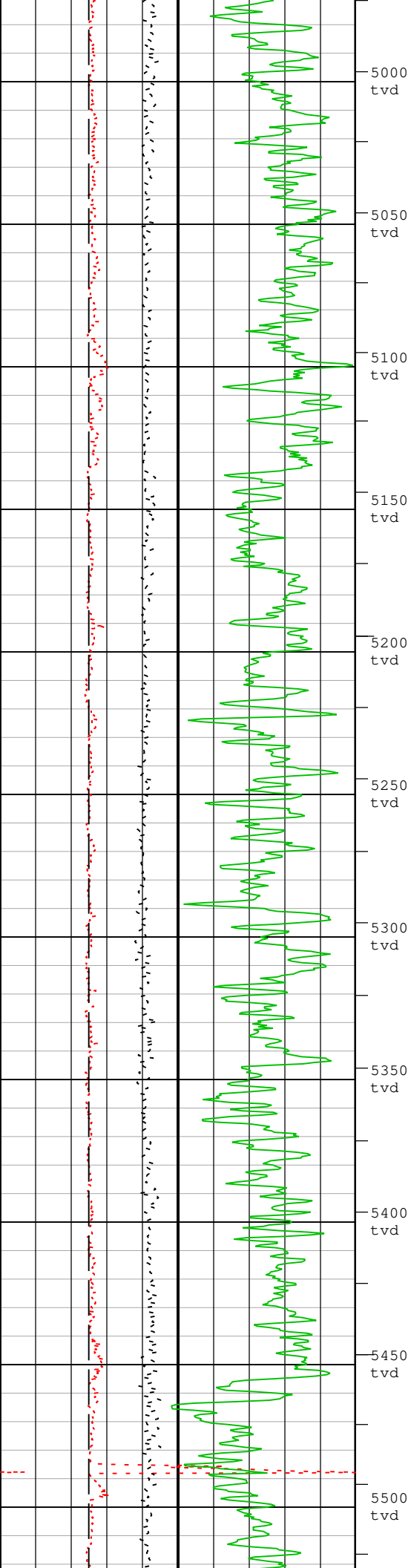


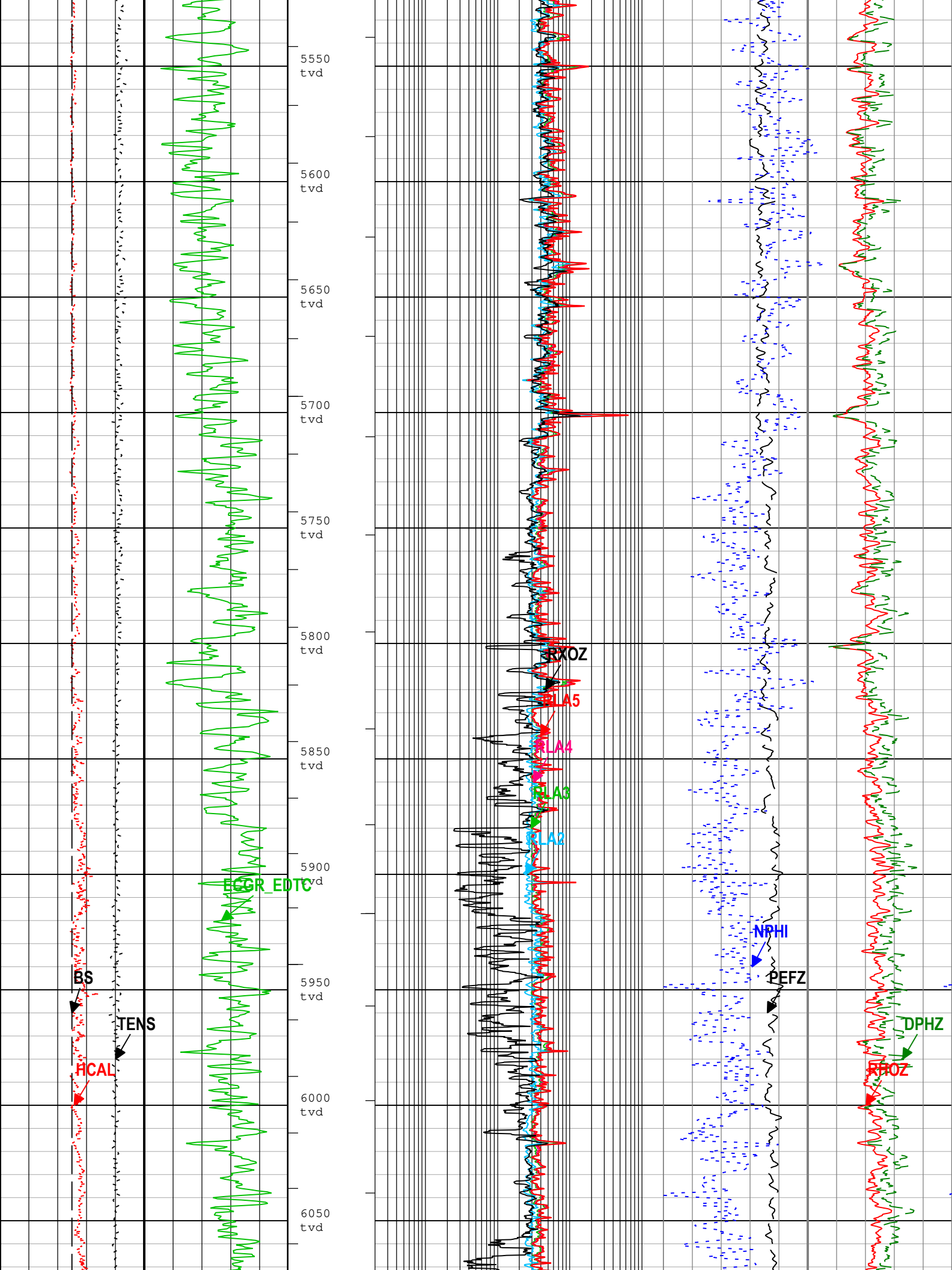


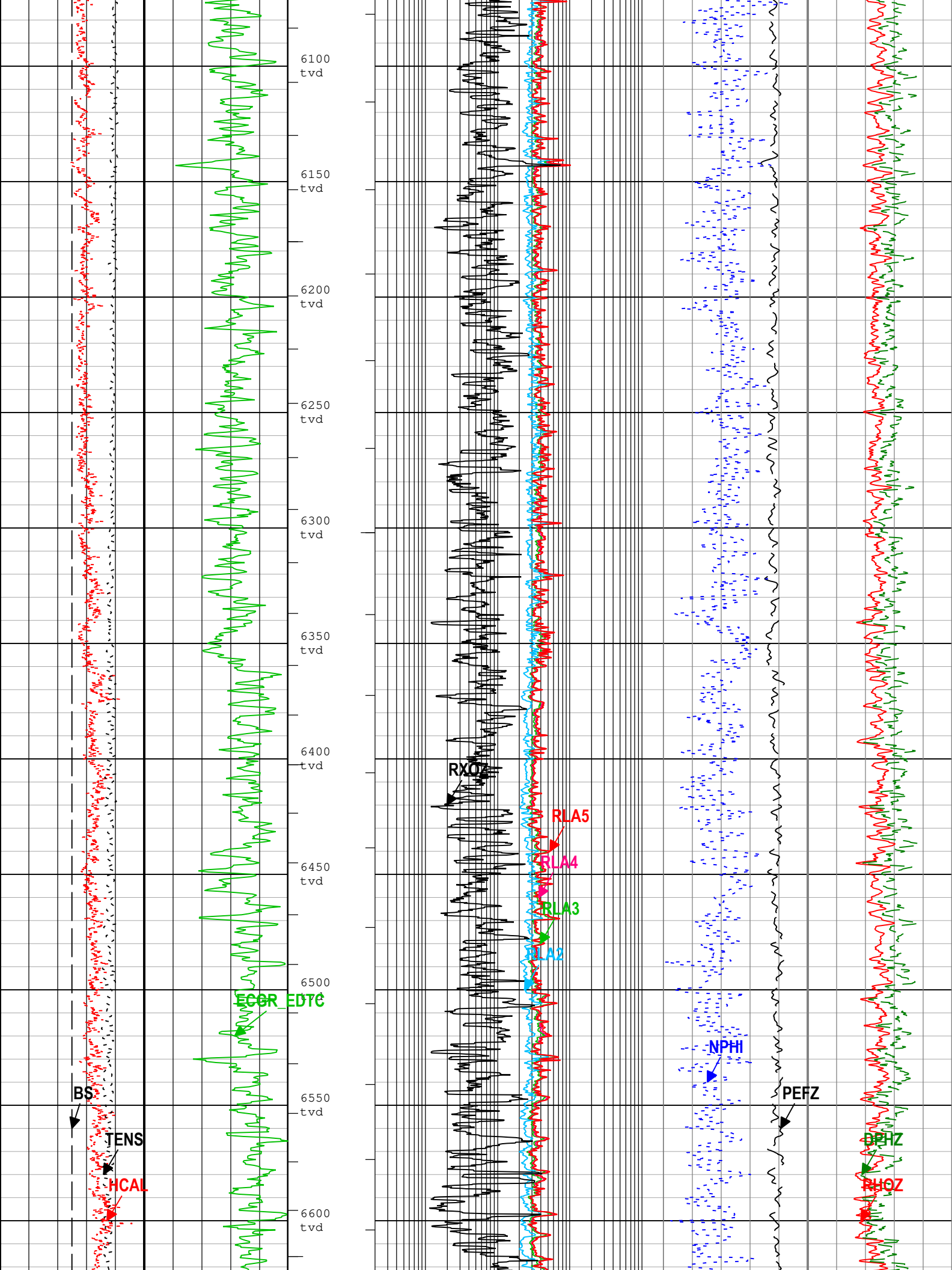


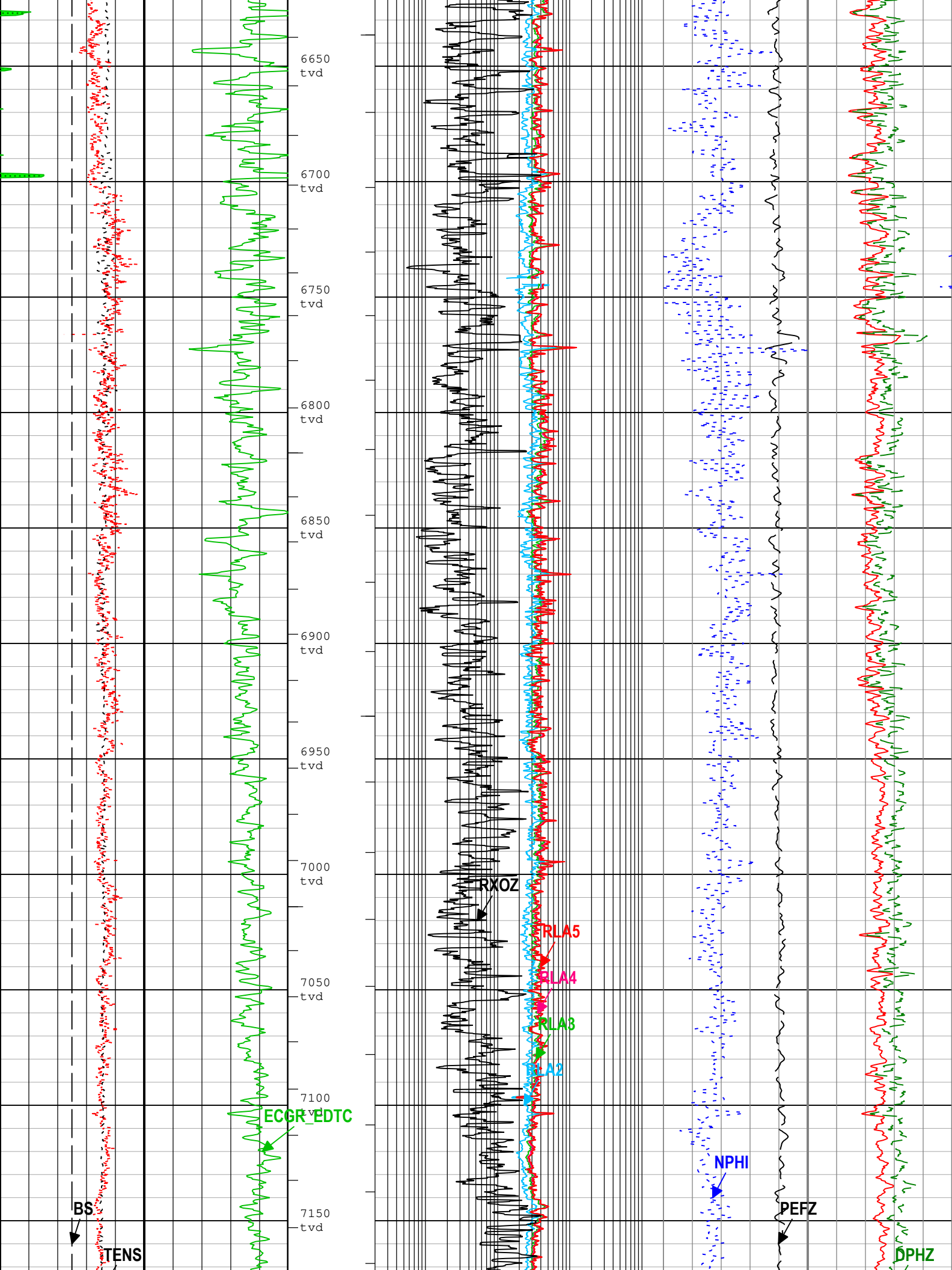


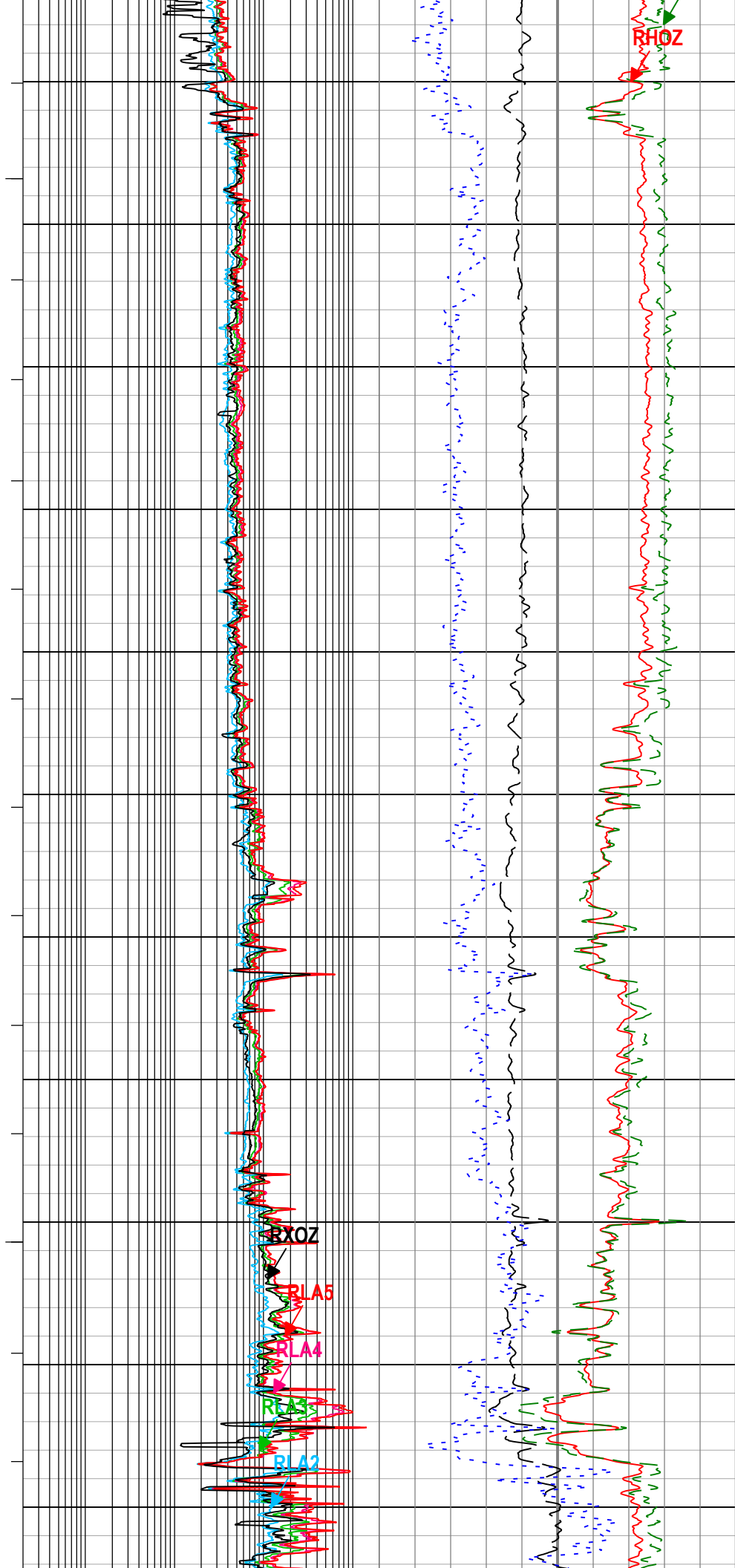
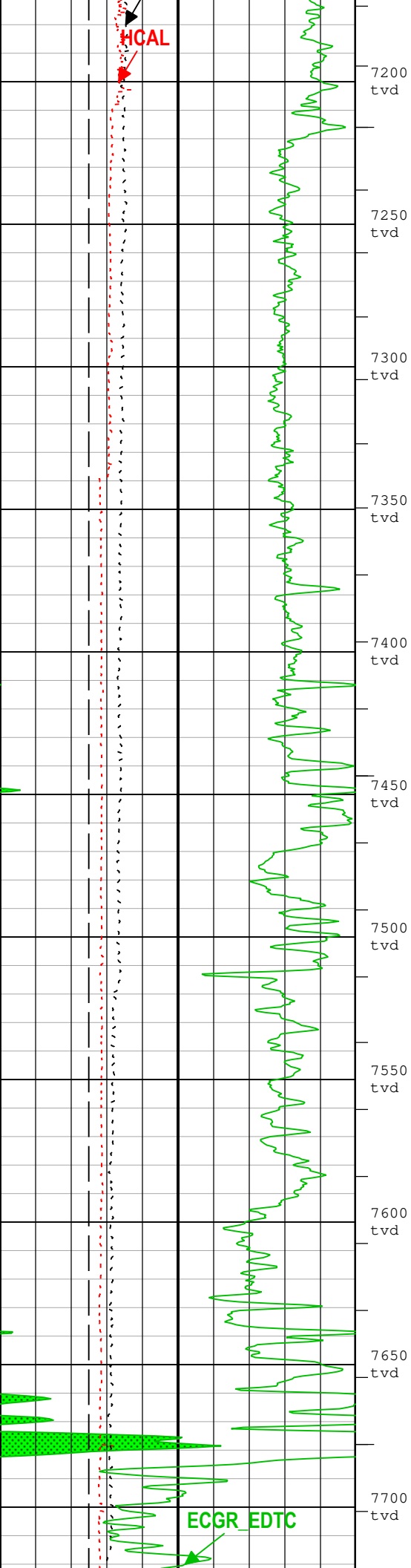


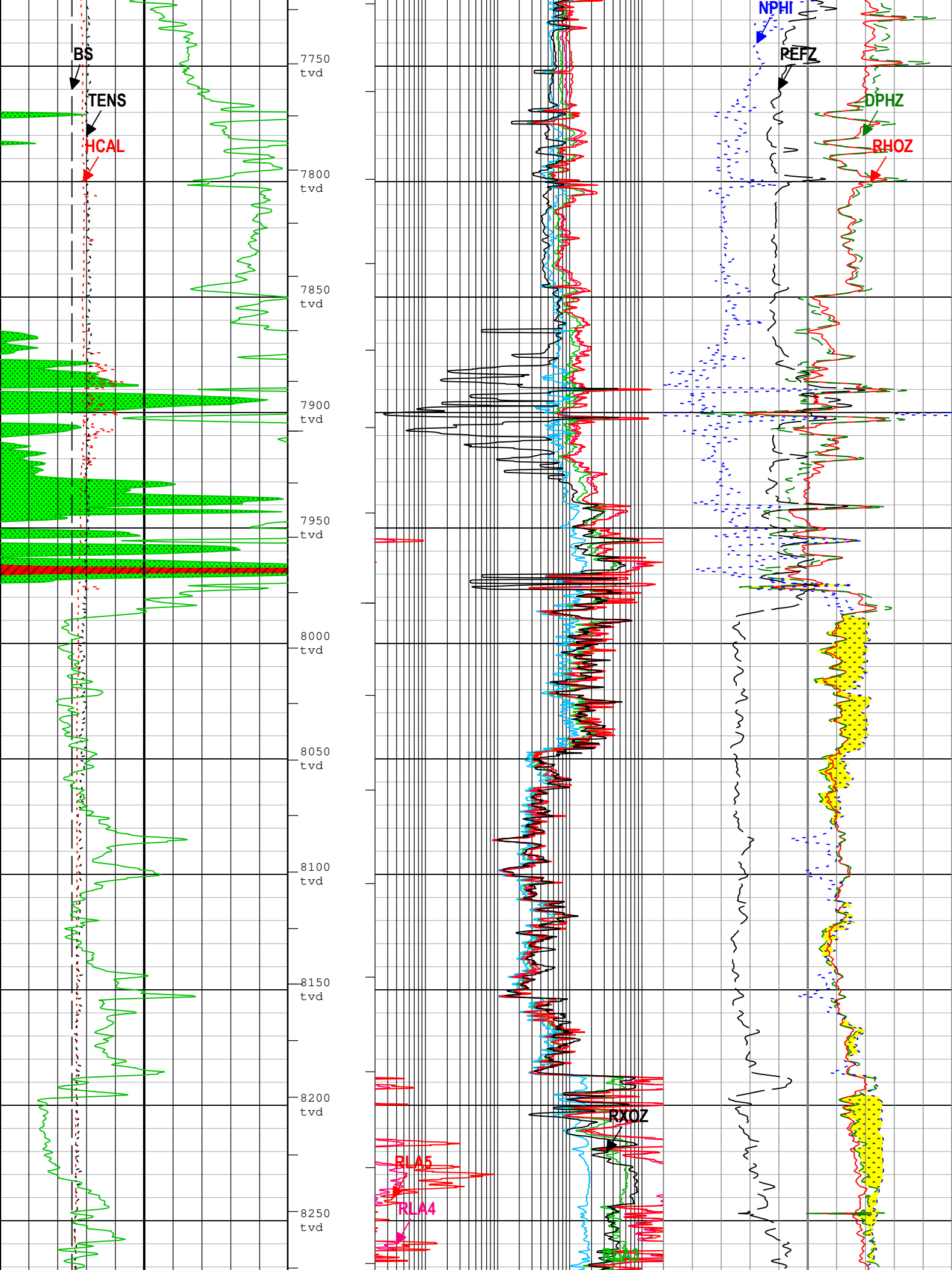


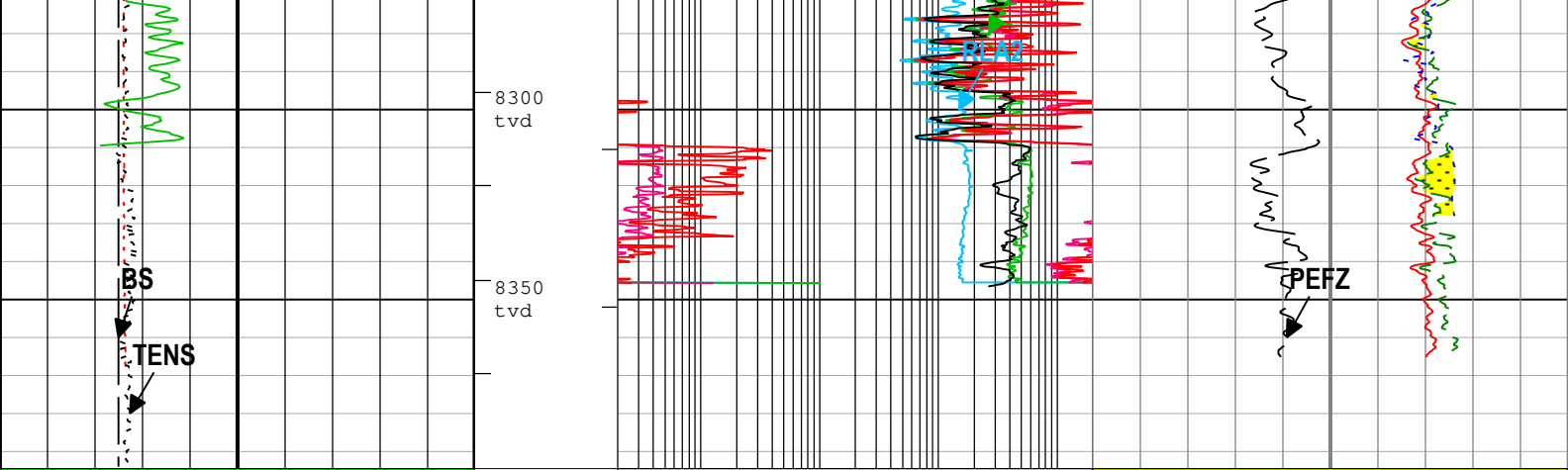












GR > 200 GAPI		
GR > 400 GAPI		
Caliper (HCAL) HDRS[1]	in	16
Cable Tension (TENS)	lbf	0
Bit Size (BS) RT	in	16
Gamma Ray (ECGR_EDTC) EDTC-B[1]	gAPI	200

Apparent Resistivity from Computed Focusing Mode 2 (RLA2) HRLT-B[1]		
0.2	ohm.m	2000
Apparent Resistivity from Computed Focusing Mode 3 (RLA3) HRLT-B[1]		
0.2	ohm.m	2000
Apparent Resistivity from Computed Focusing Mode 4 (RLA4) HRLT-B[1]		
0.2	ohm.m	2000
Apparent Resistivity from Computed Focusing Mode 5 (RLA5) HRLT-B[1]		
0.2	ohm.m	2000
Invaded Formation Resistivity filtered at 18 inches (RXOZ) HDRS[1]		
0.2	ohm.m	2000

GAS EFFECT		
Standard Resolution Formation Density (RHOZ) HDRS[1]		
2	g/cm3	3
Standard Resolution Density Porosity (DPHZ) HDRS[1]		
0.3	ft3/ft3	-0.1
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS[1]		
0		10
Thermal Neutron Porosity (original Ratio Method) in Selected Lithology (NPHI) HGNS[1]		
0.3	ft3/ft3	-0.1

- IHV - Integrated Hole Volume every 100.00 (ft3)
- IHV - Integrated Hole Volume every 10.00 (ft3)
- ICV - Integrated Cement Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)

Description: Triple Combo standard resolution template for Platform Express Format: Log (BRADFORD TCOM) Index Scale: 2 in per 100 ft Index Unit: ft
 Index Type: TVD Creation Date: 18-Apr-2019 11:50:27

Channel Processing Parameters				
1A: Parameters				
Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0.446	in
CBLO	Casing Bottom (Logger)	WLSESSION	2543	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	9.625	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DHC	Density Hole Correction	HDRS-H	Bit Size	
FCD	Future Casing (Outer) Diameter	WLSESSION	5.5	in

FD	Fluid Density	Borehole	1	g/cm3
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	MRES	
PROCRM	Mud Resistivity Select	HRLT-B	HRLT Compute	
KFAC_HRLT	HRLT Geometrical Factor Option	HRLT-B	Sonde	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3
NPRM	HRDD Nuclear Processing Mode	HDRS-H	Time Zoned	
PROCMSO	Mechanical Standoff Size	HRLT-B	1.5	in
PROCSP0	Sonde Position	HRLT-B	Eccentered	

1ADepth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	2524.99	2542.91
BS	8.5	2542.91	8394.74
All depth are actual.			

1ATime Zoned Parameters

Pass Log[2]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
NPRM	High Resolution	15-Apr-2019 07:56:46	15-Apr-2019 08:17:05	8396.33	8272.33

Pass Log[8]:Up

NPRM	Standard Resolution	15-Apr-2019 10:06:38	15-Apr-2019 10:51:09	8272.33	8084.83
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Pass Log[9]:Up

NPRM	Standard Resolution	15-Apr-2019 11:04:41	15-Apr-2019 16:11:56	8084.83	2500.83
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All depth are at tool zero.

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
HRGD_BOARD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

Main Pass									
MAIN PASS 5"=100'									

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
IHV	Integrated Hole Volume	GCSE_UP_PASS, GCSE_DOWN_PASS:1A	2498.85	ft3
ICV	Integrated Cement Volume	GCSE_UP_PASS, GCSE_DOWN_PASS:1A, FCD	1533.39	ft3

Software Version

Acquisition System	Version
Maxwell 2019	9.0.106845.3100

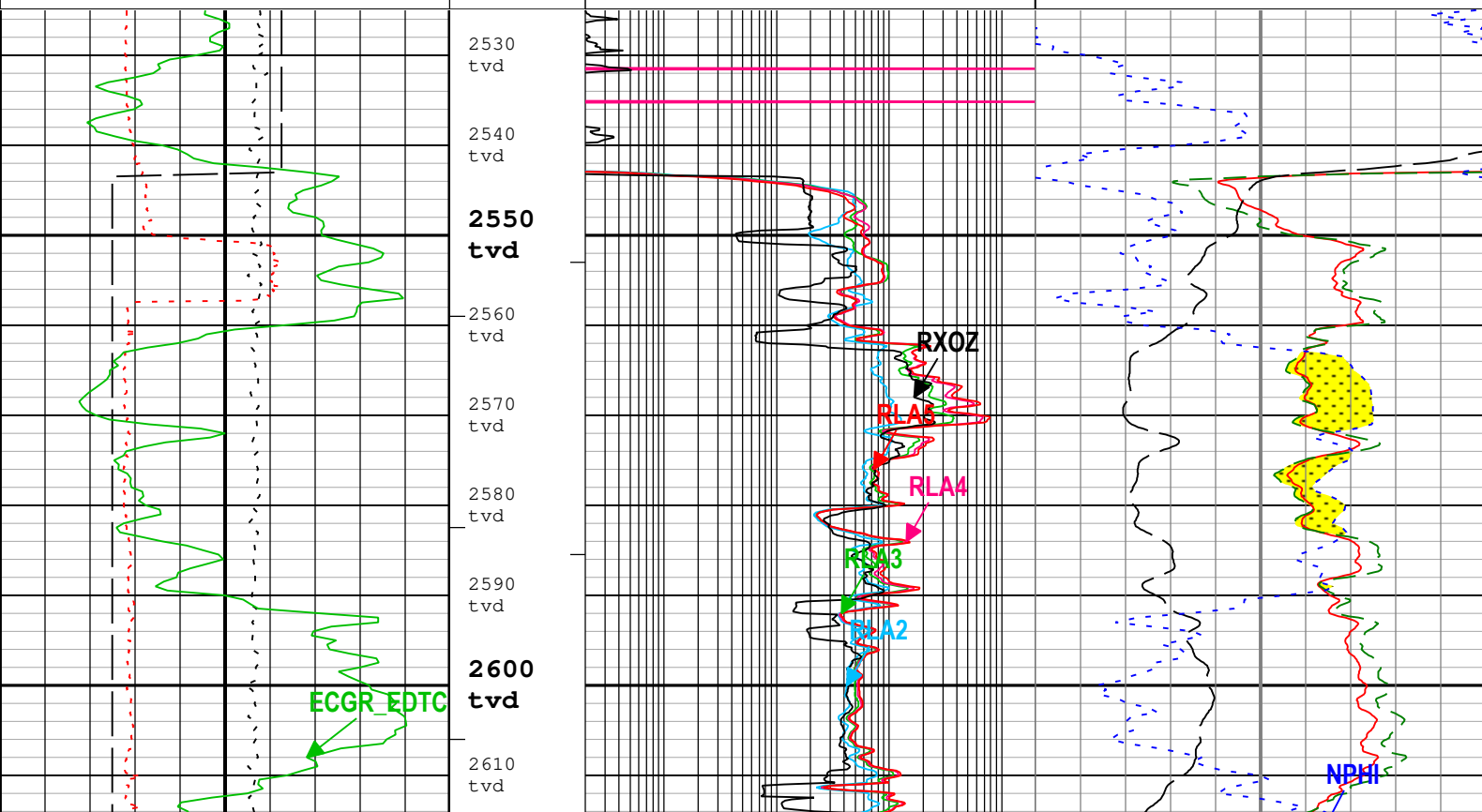
Composite Summary

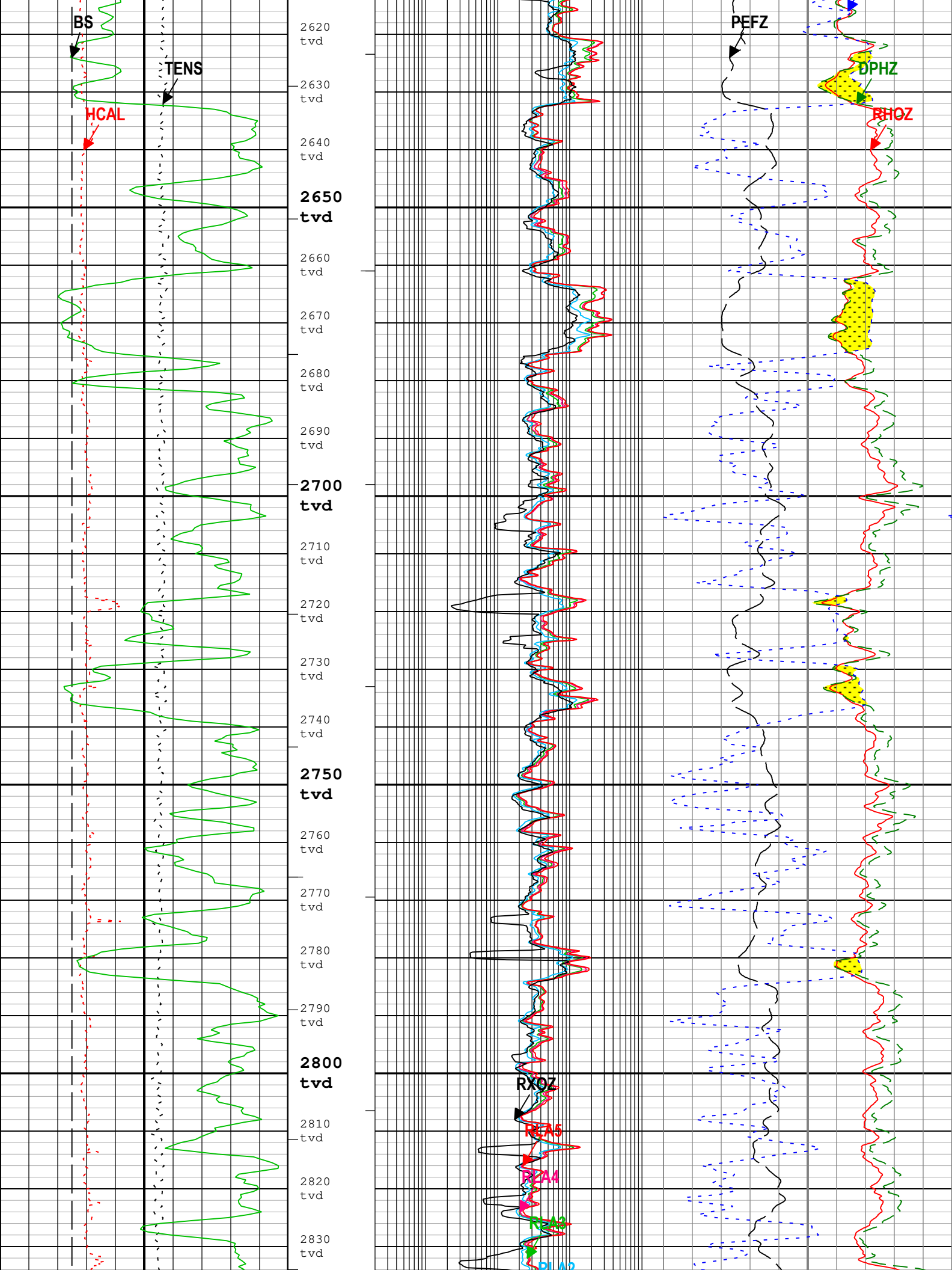
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[2]:Up	Up	8266.17 ft	8396.38 ft	15-Apr-2019 7:56:45 AM	15-Apr-2019 8:17:05 AM	ON	2.60 ft	Yes

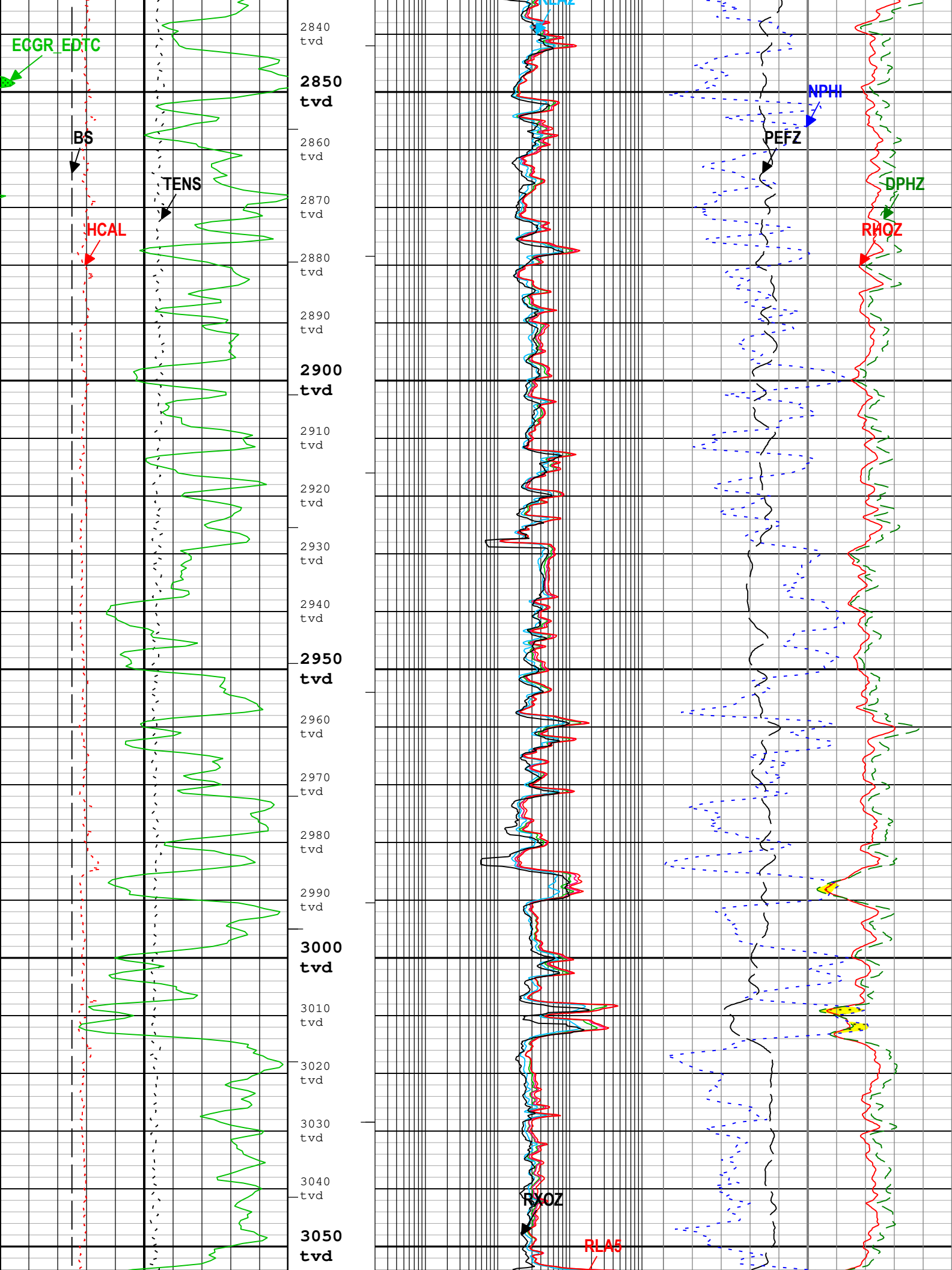
All depths are referenced to toolstring zero

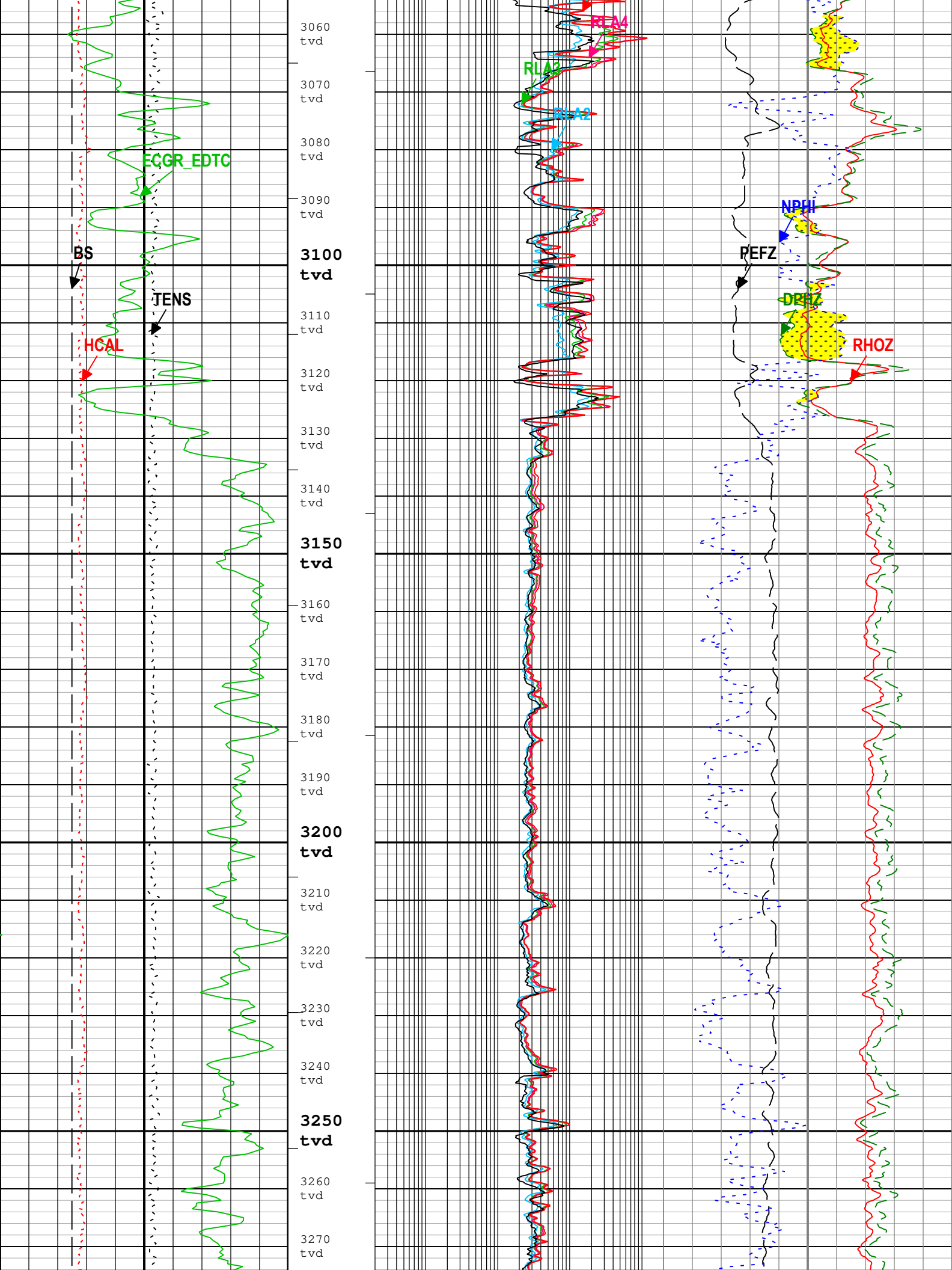
Company:North East Natural Energy LLC Well:Boggess 17H
Main Pass:S024

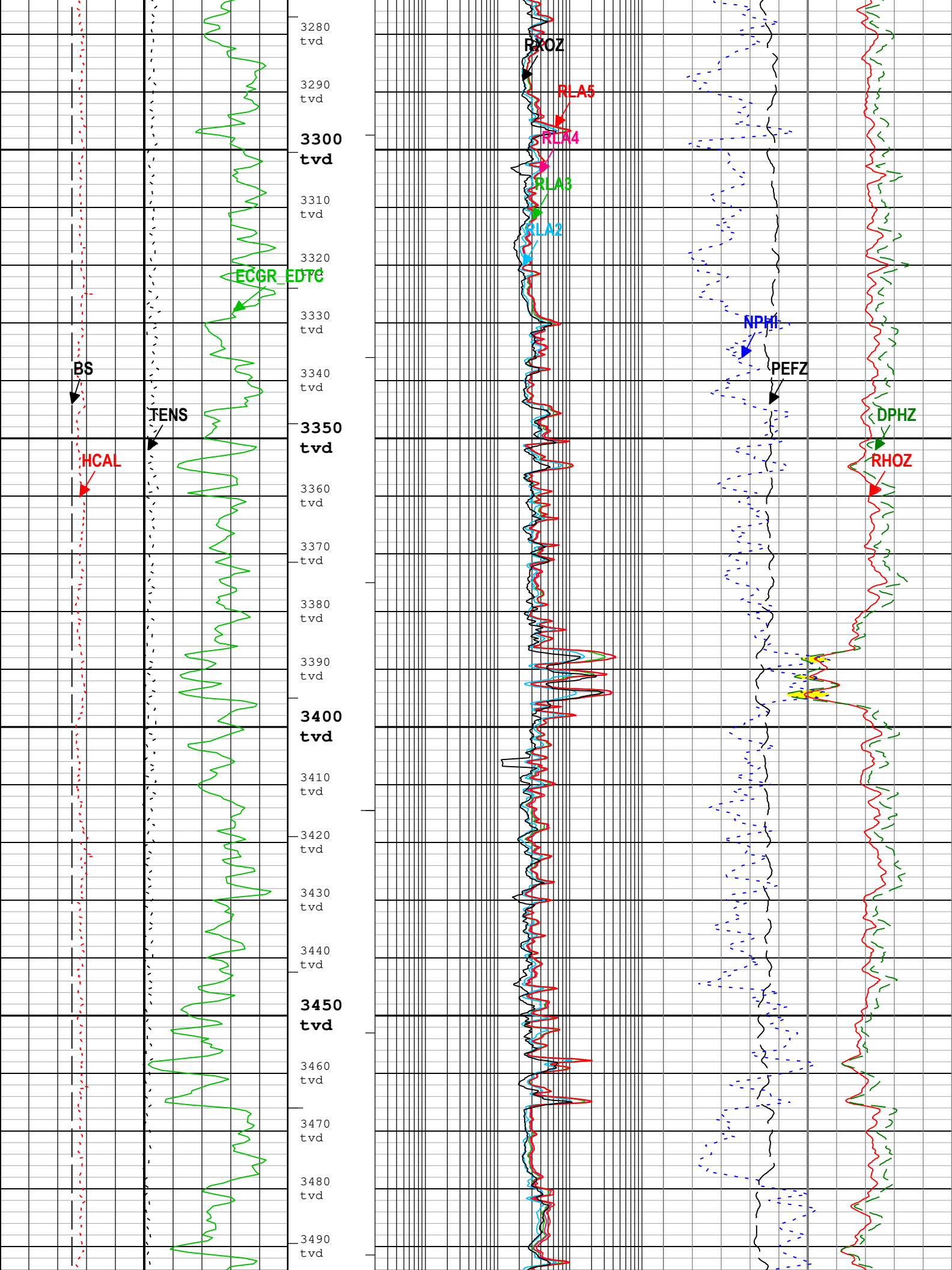
GR > 200 GAPI			Apparent Resistivity from Computed Focusing Mode 2 (RLA2) HRLT-B[1]			GAS EFFECT		
GR > 400 GAPI			Apparent Resistivity from Computed Focusing Mode 3 (RLA3) HRLT-B[1]			Standard Resolution Formation Density (RHOZ) HDRS[1]		
Caliper (HCAL) HDRS[1]			Apparent Resistivity from Computed Focusing Mode 4 (RLA4) HRLT-B[1]			Standard Resolution Density Porosity (DPHZ) HDRS[1]		
Cable Tension (TENS)			Apparent Resistivity from Computed Focusing Mode 5 (RLA5) HRLT-B[1]			Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS[1]		
Bit Size (BS) RT			Invaded Formation Resistivity filtered at 18 inches (RXOZ) HDRS[1]			Thermal Neutron Porosity (original Ratio Method) in Selected Lithology (NPHI) HGNS[1]		
Gamma Ray (ECGR_EDTC) EDTC-B[1]								

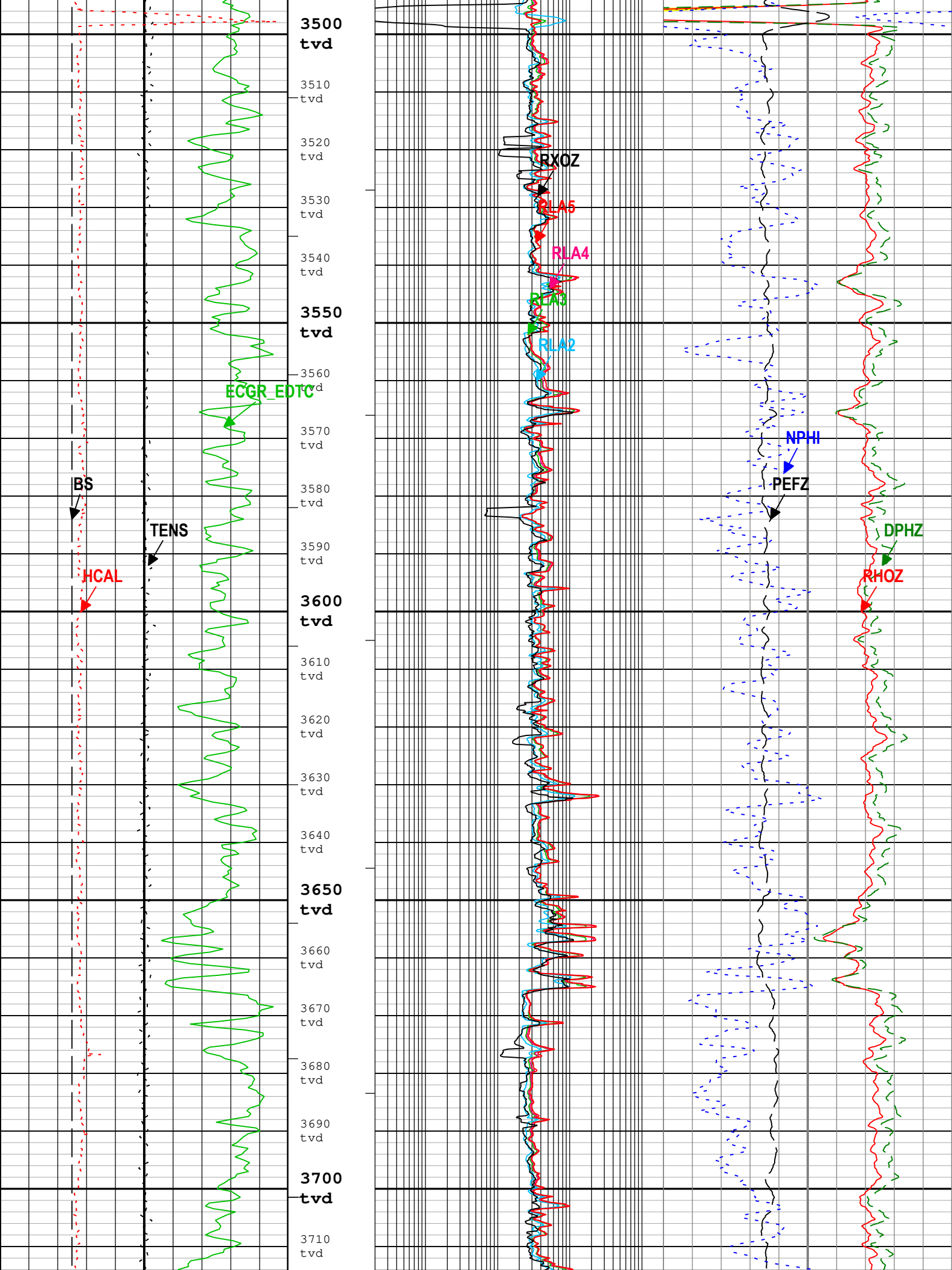


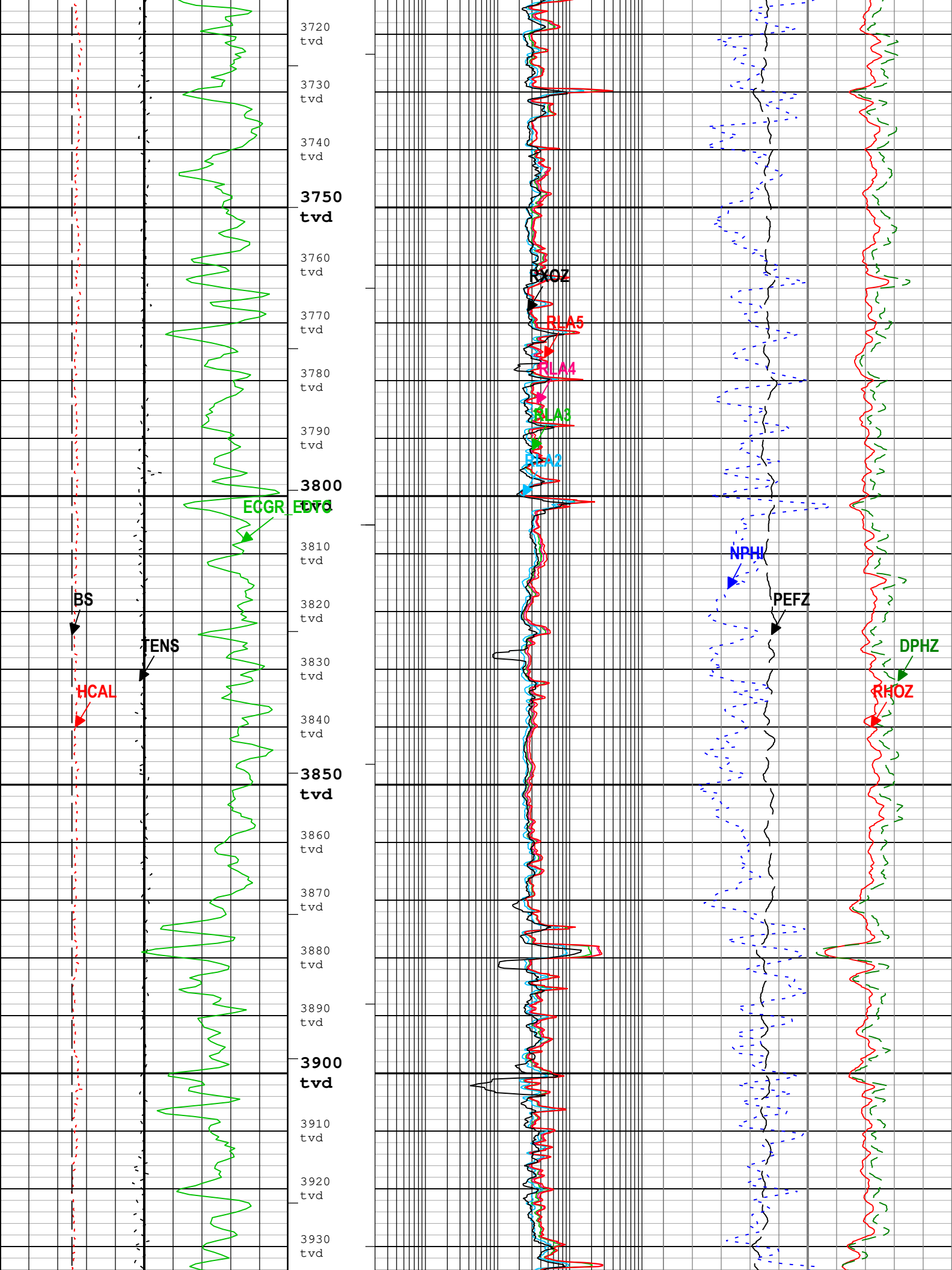


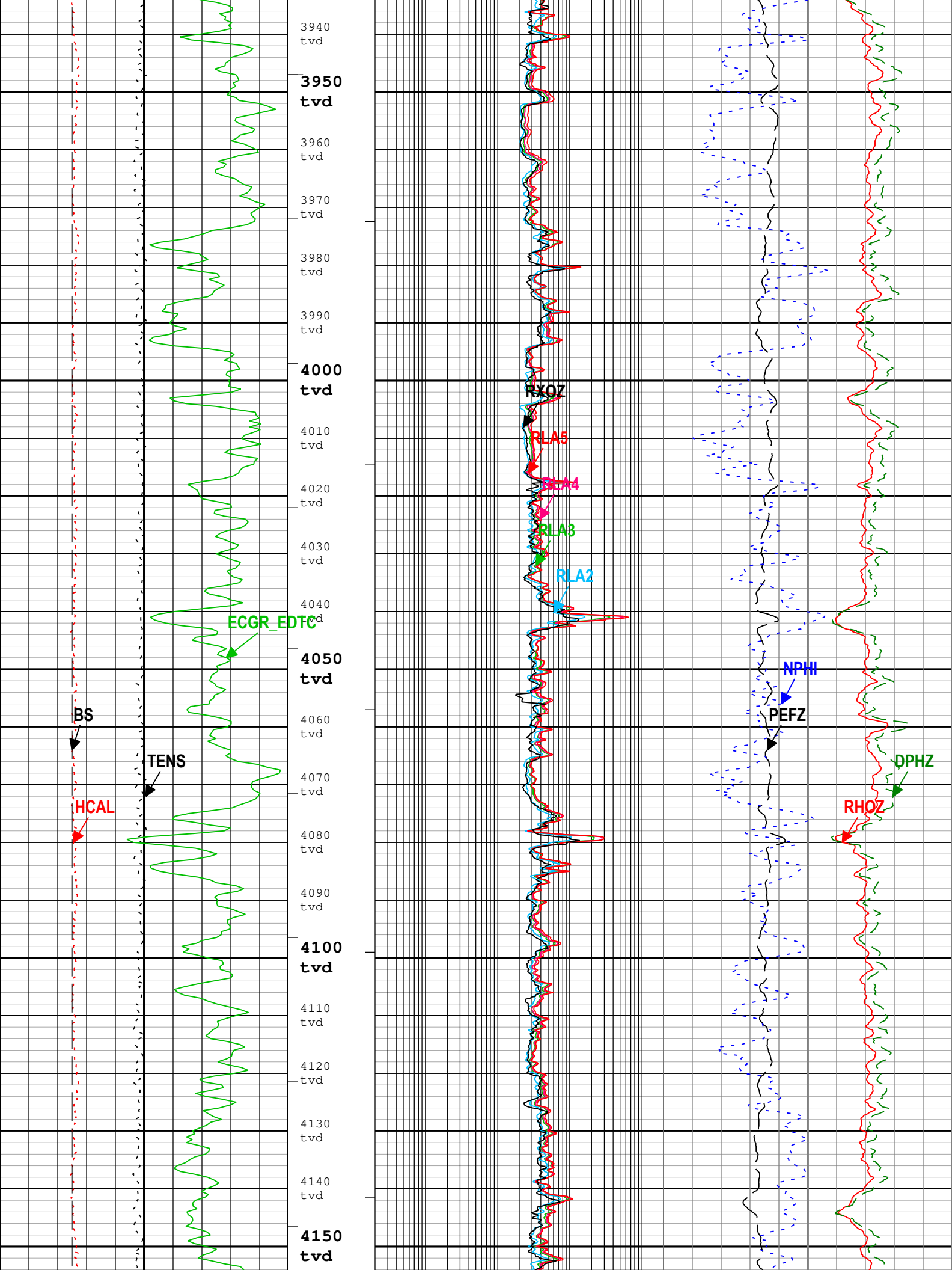


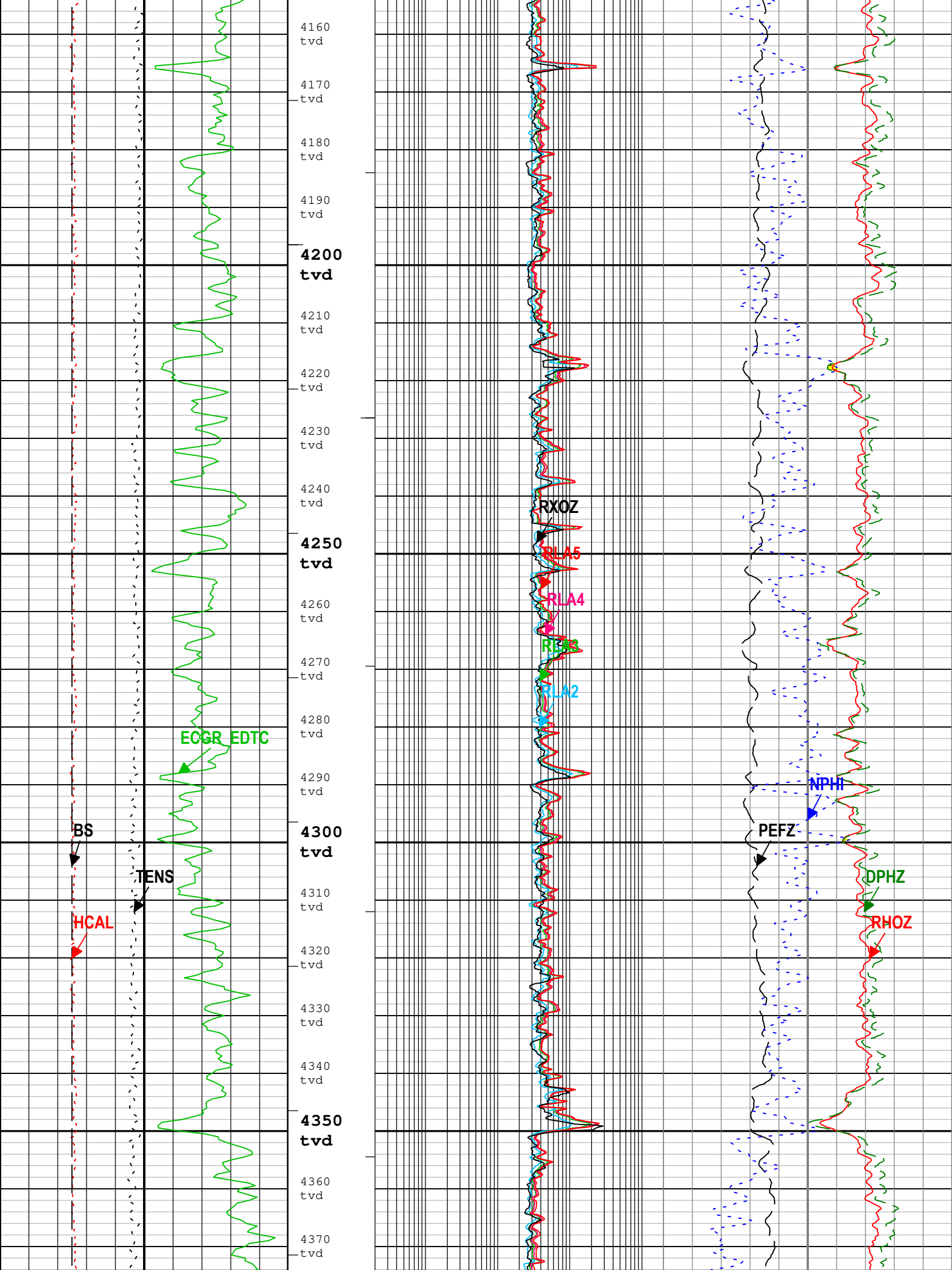


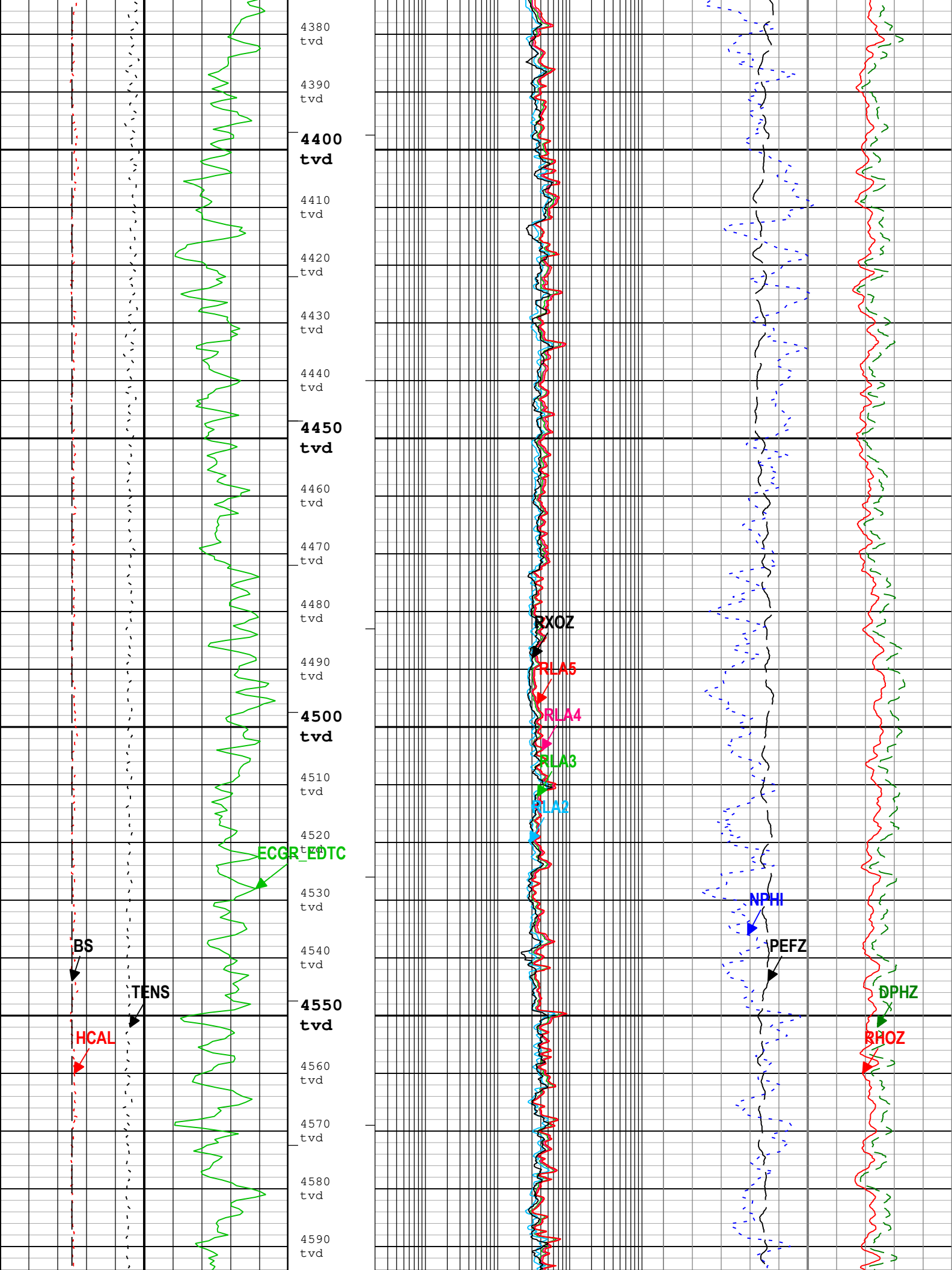


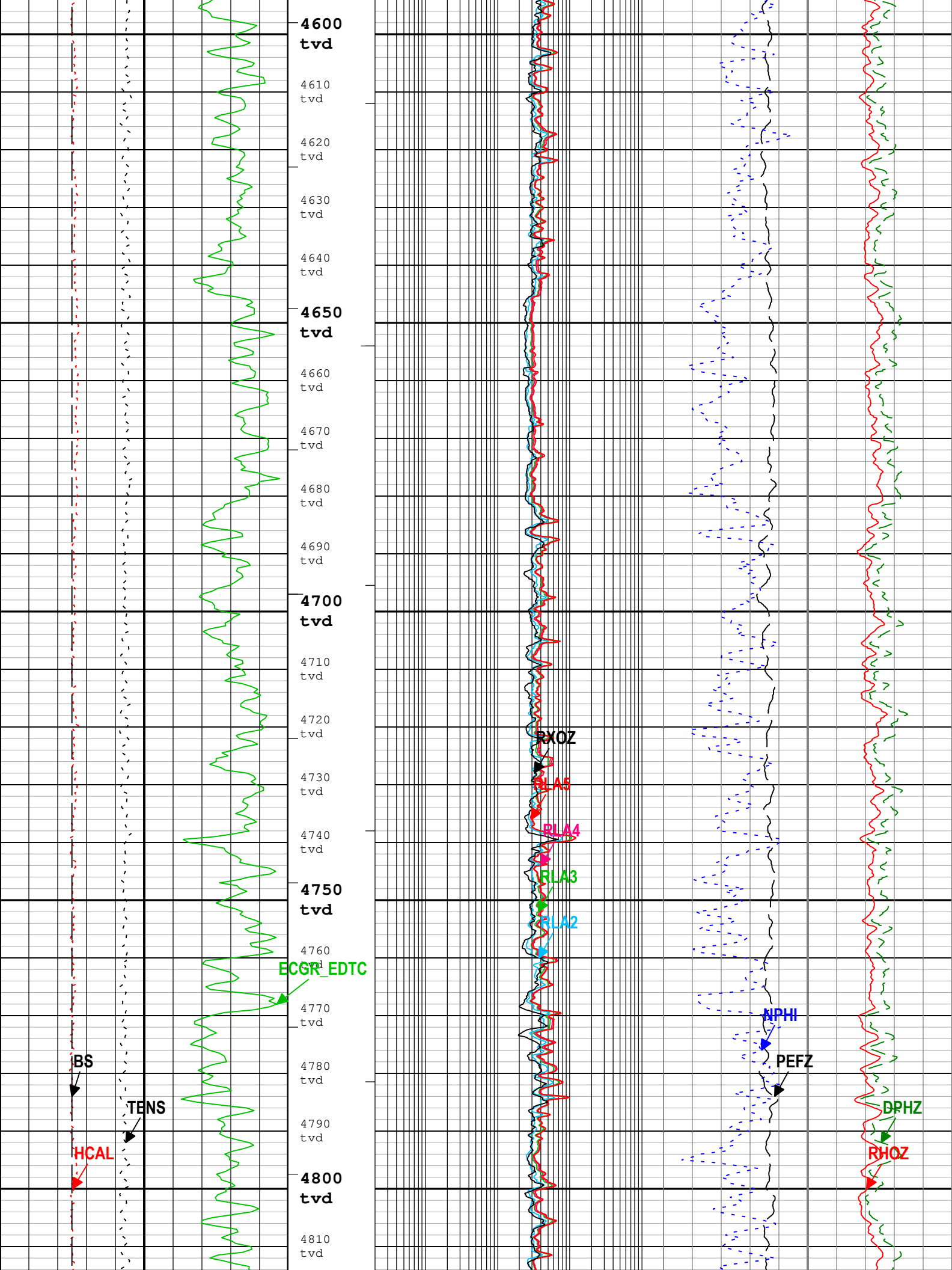


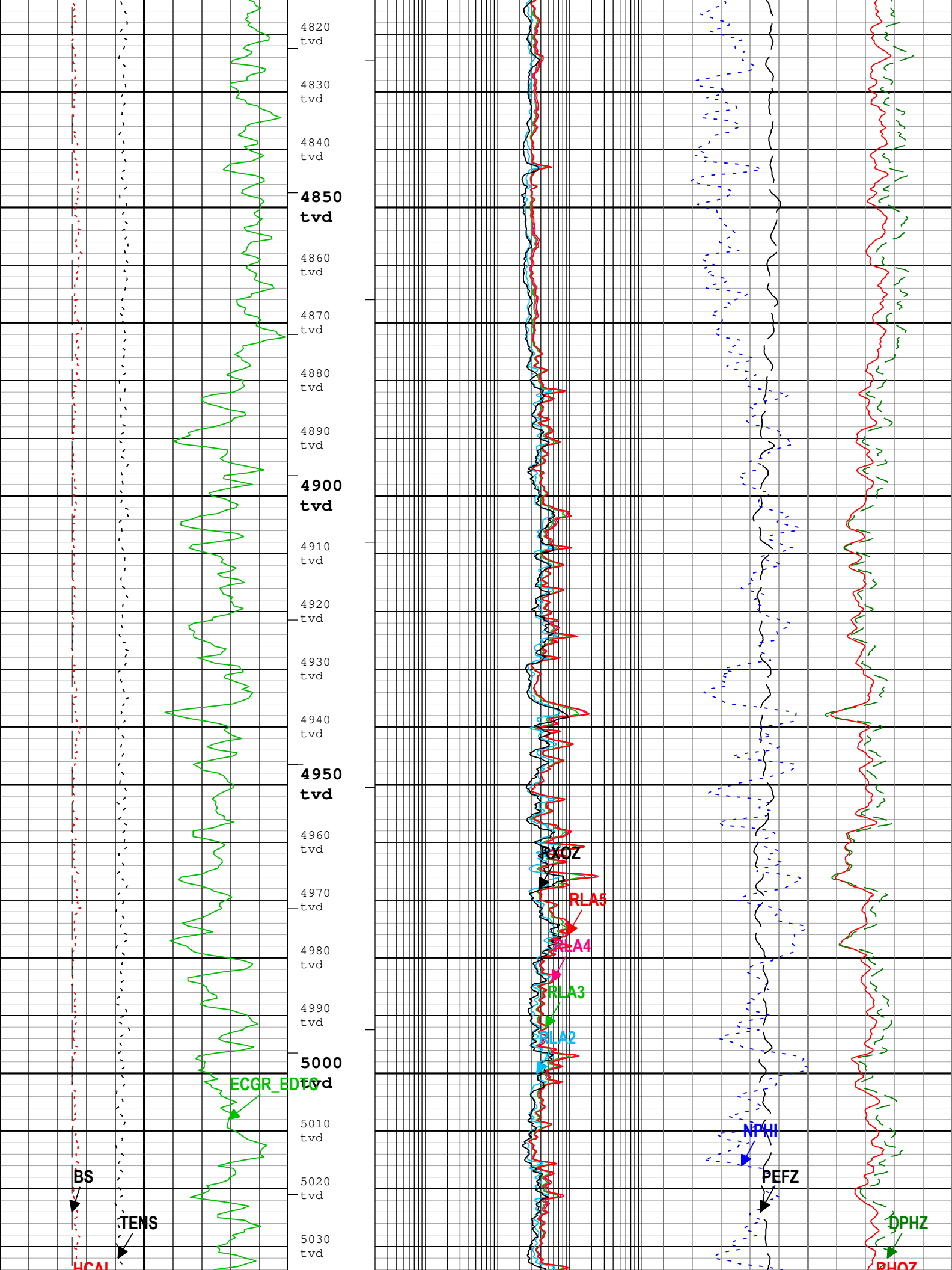


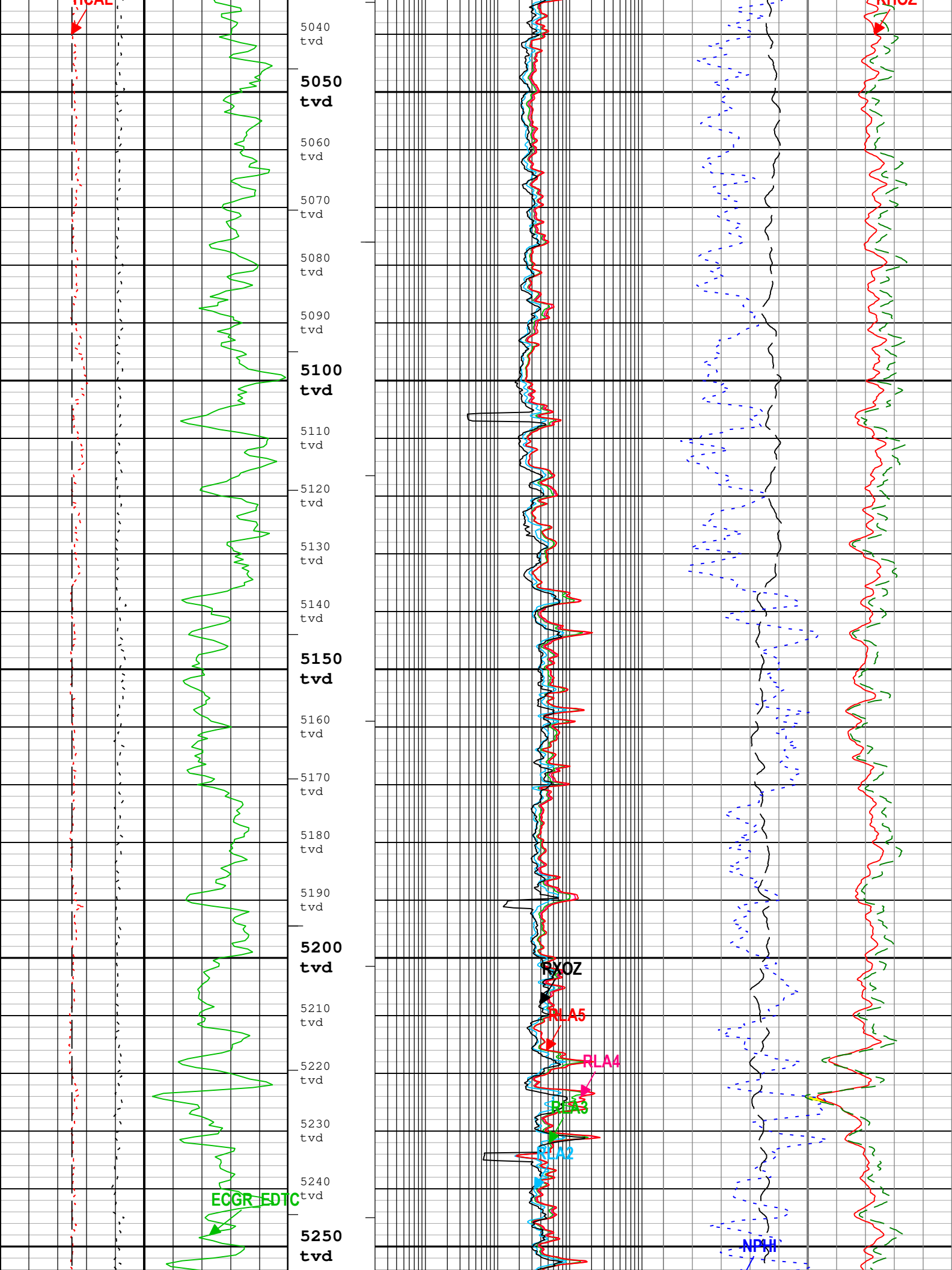


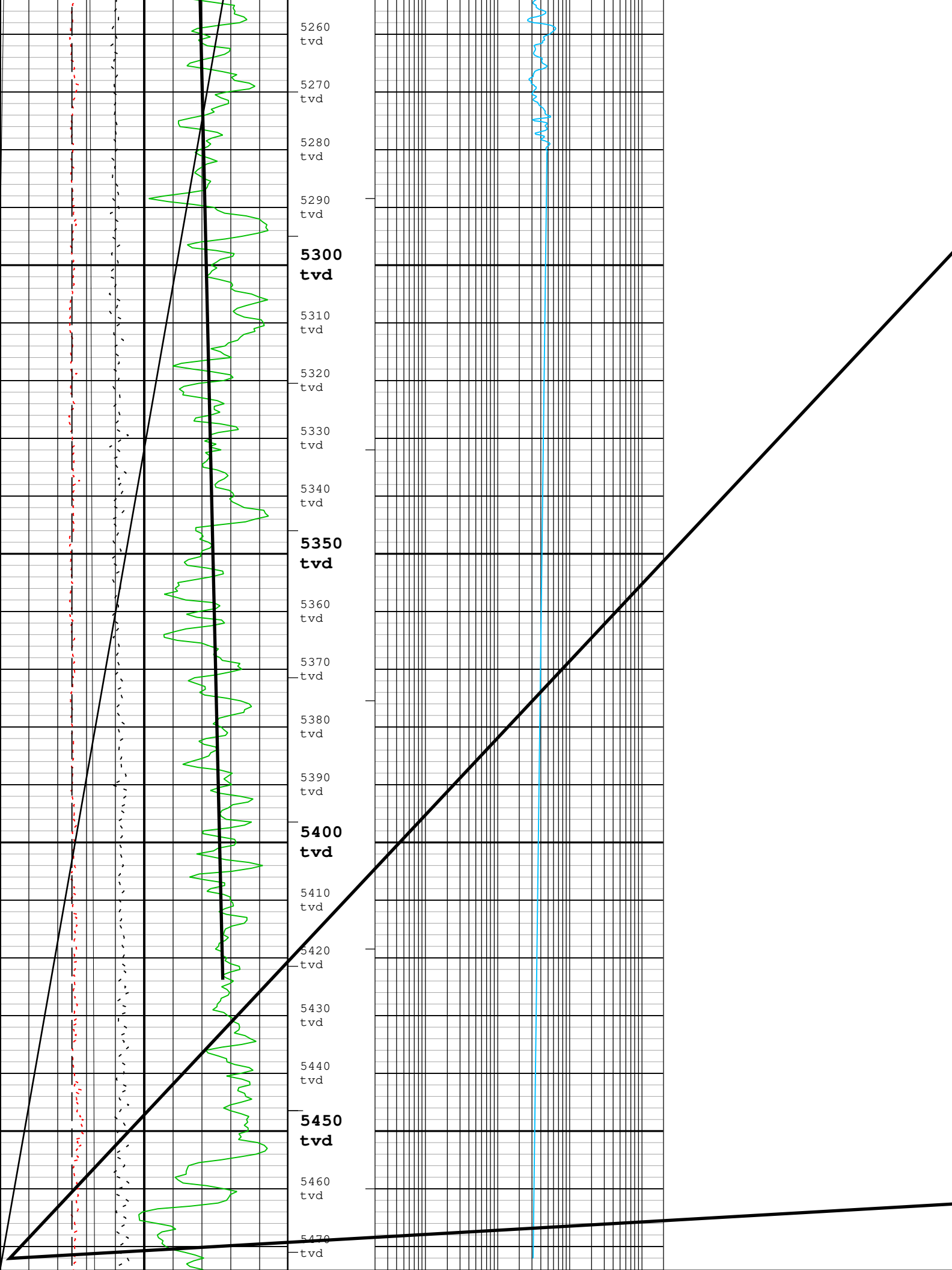


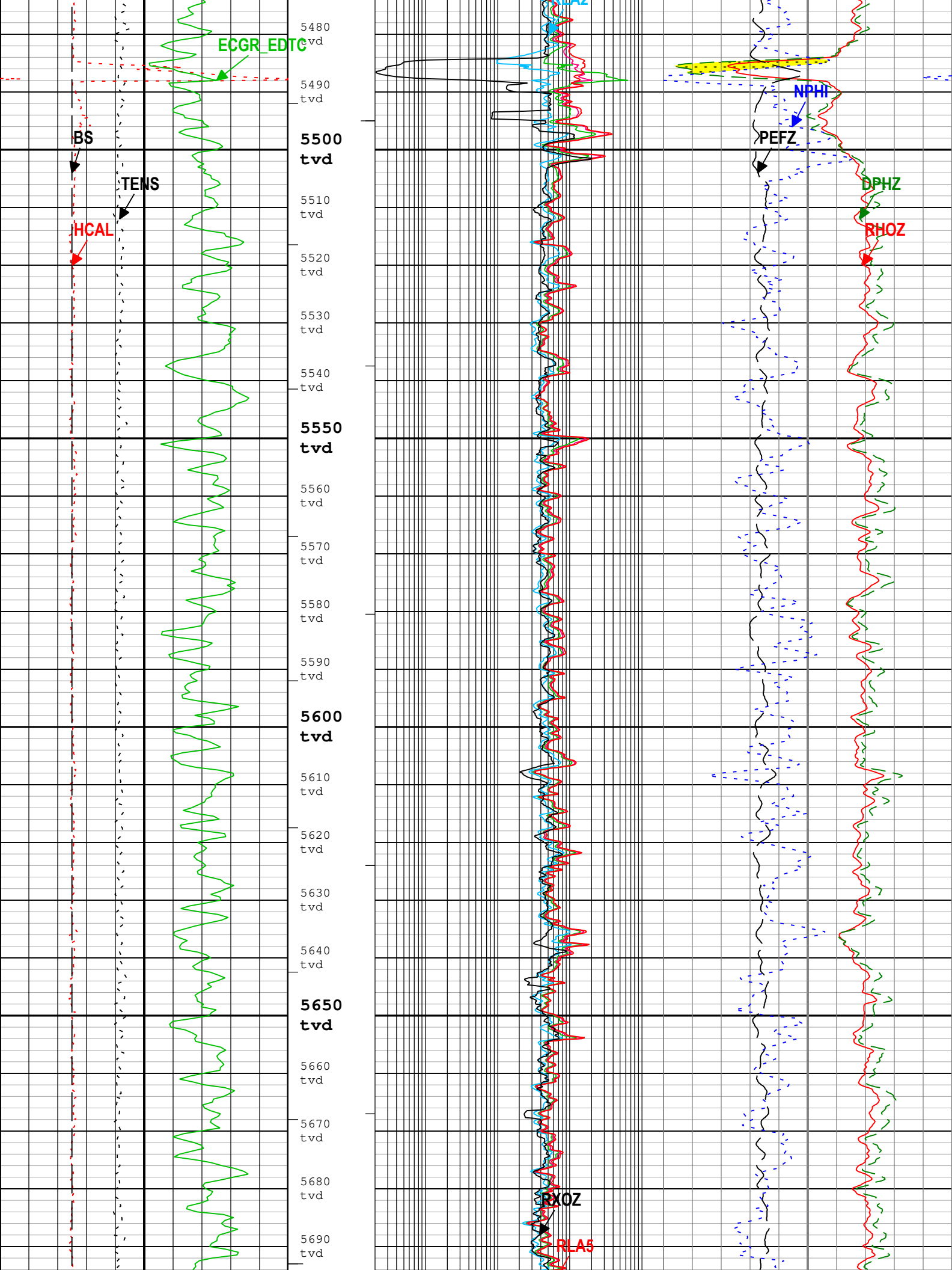


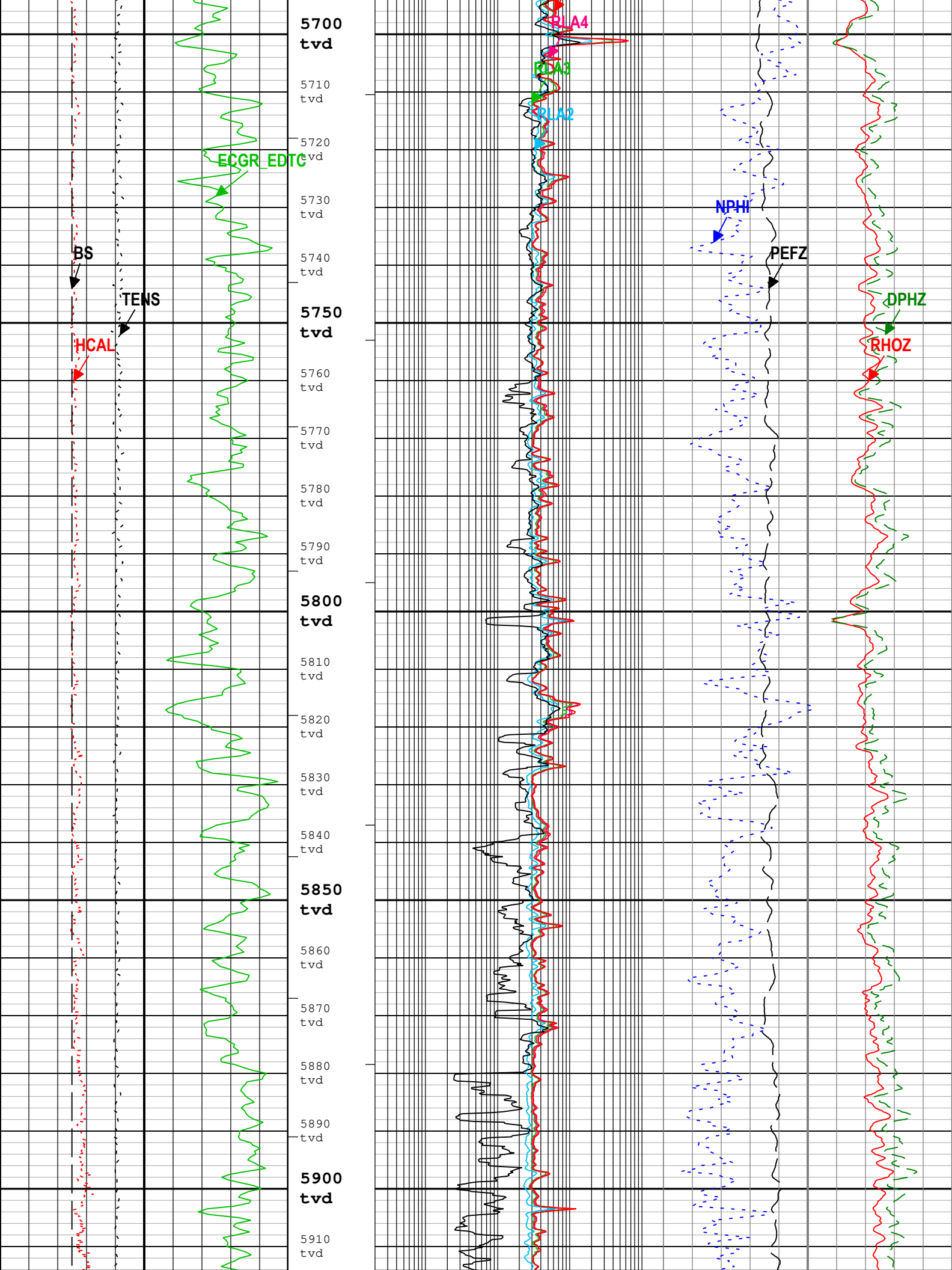


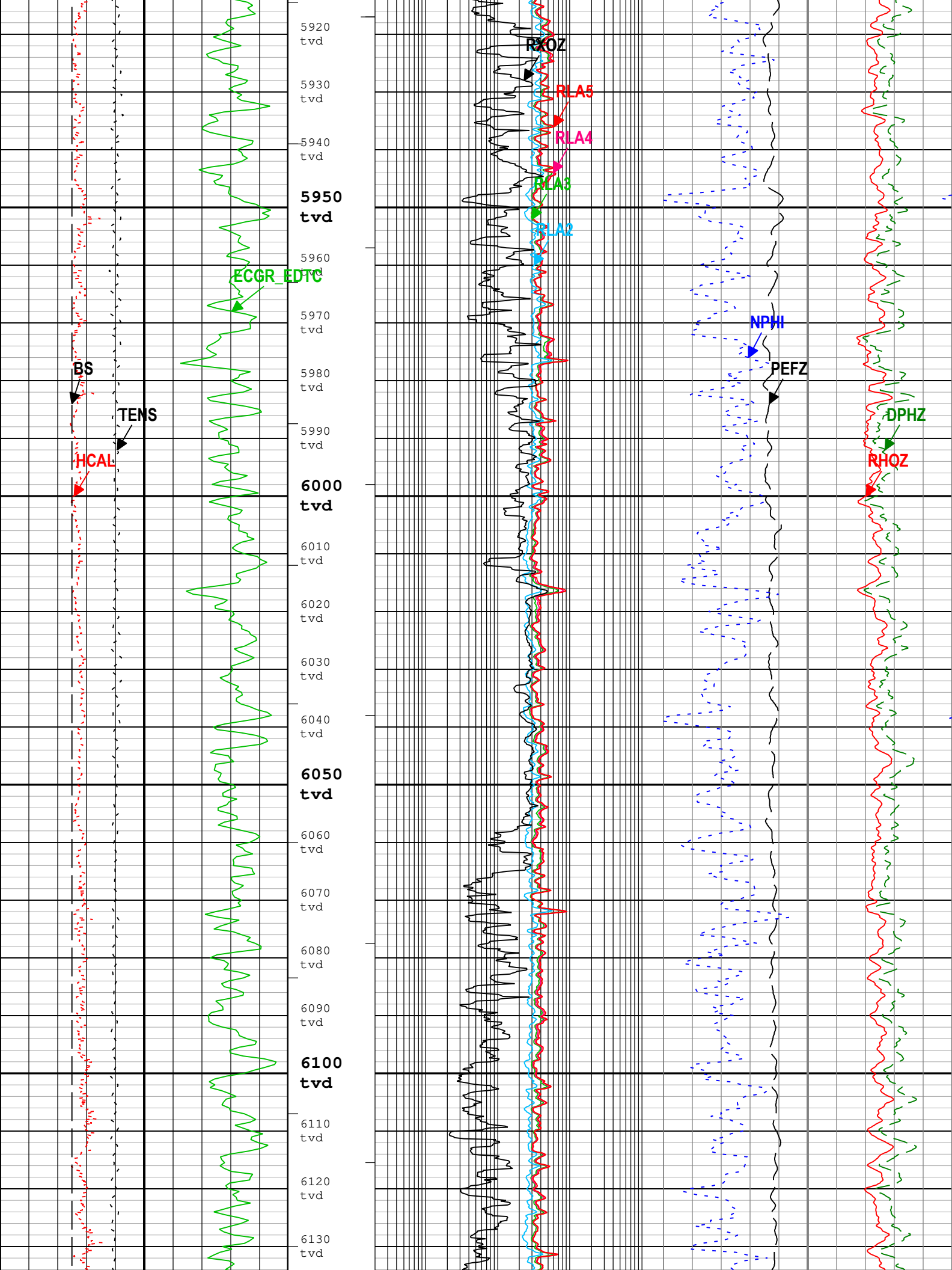


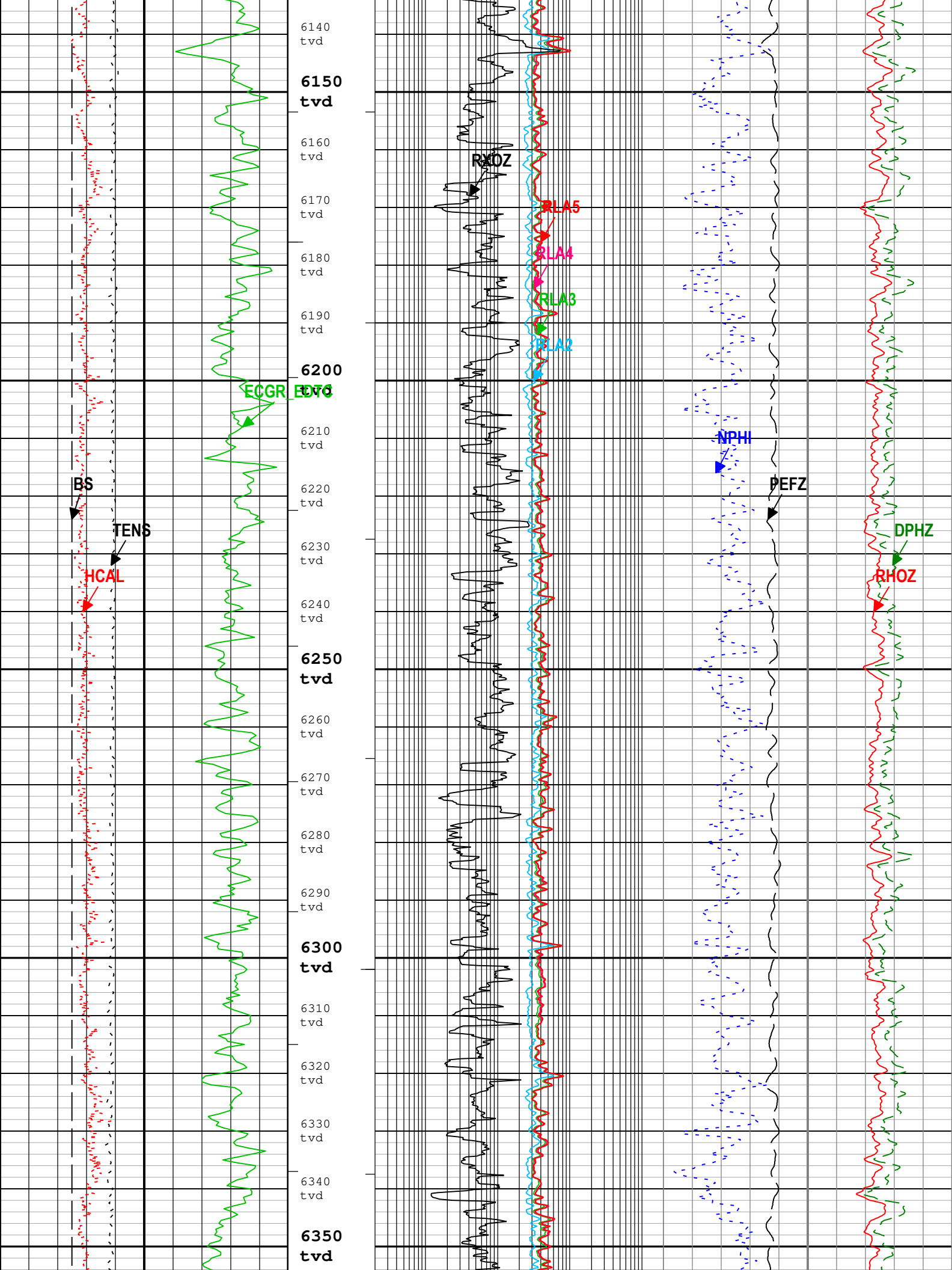


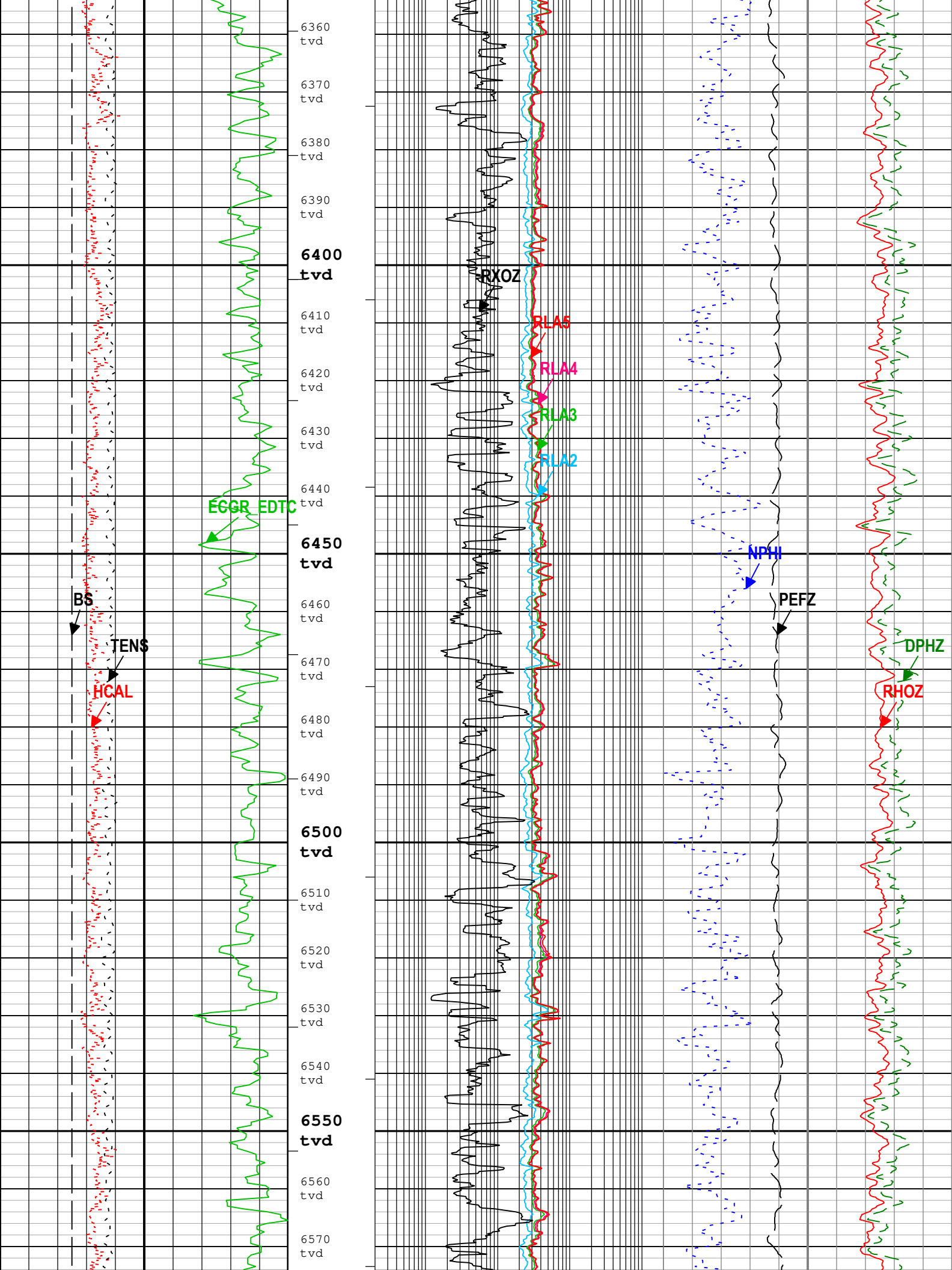


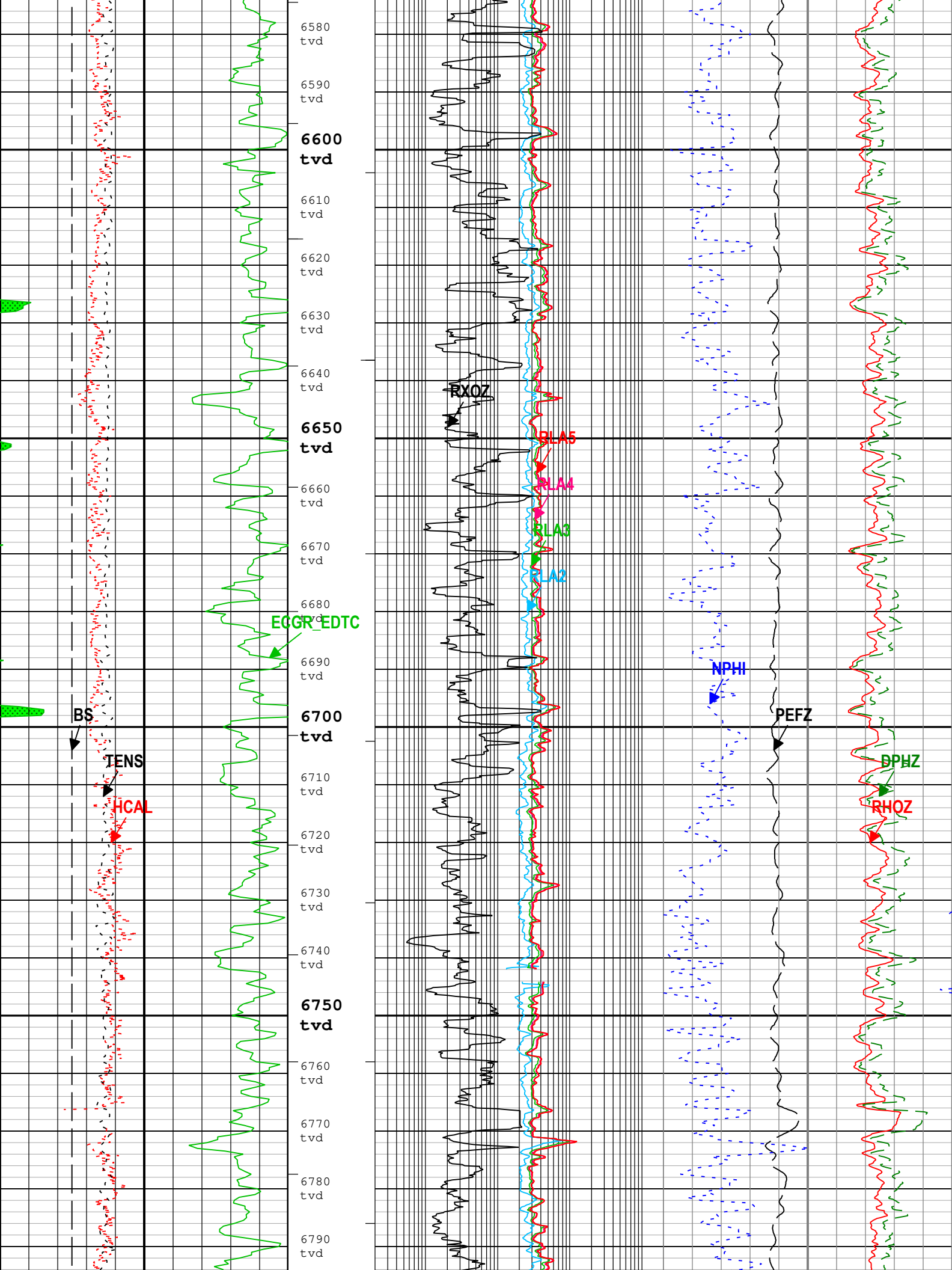


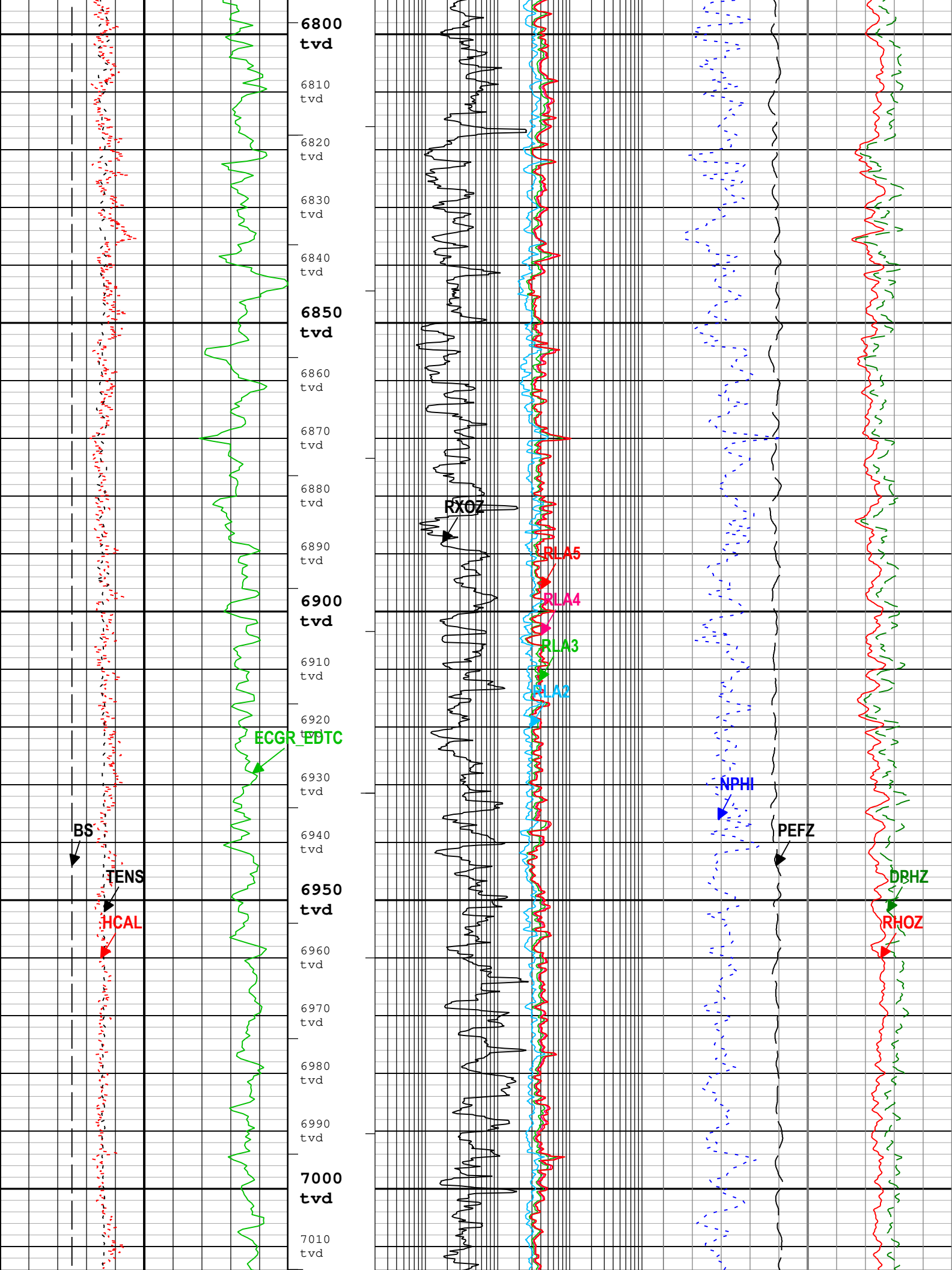


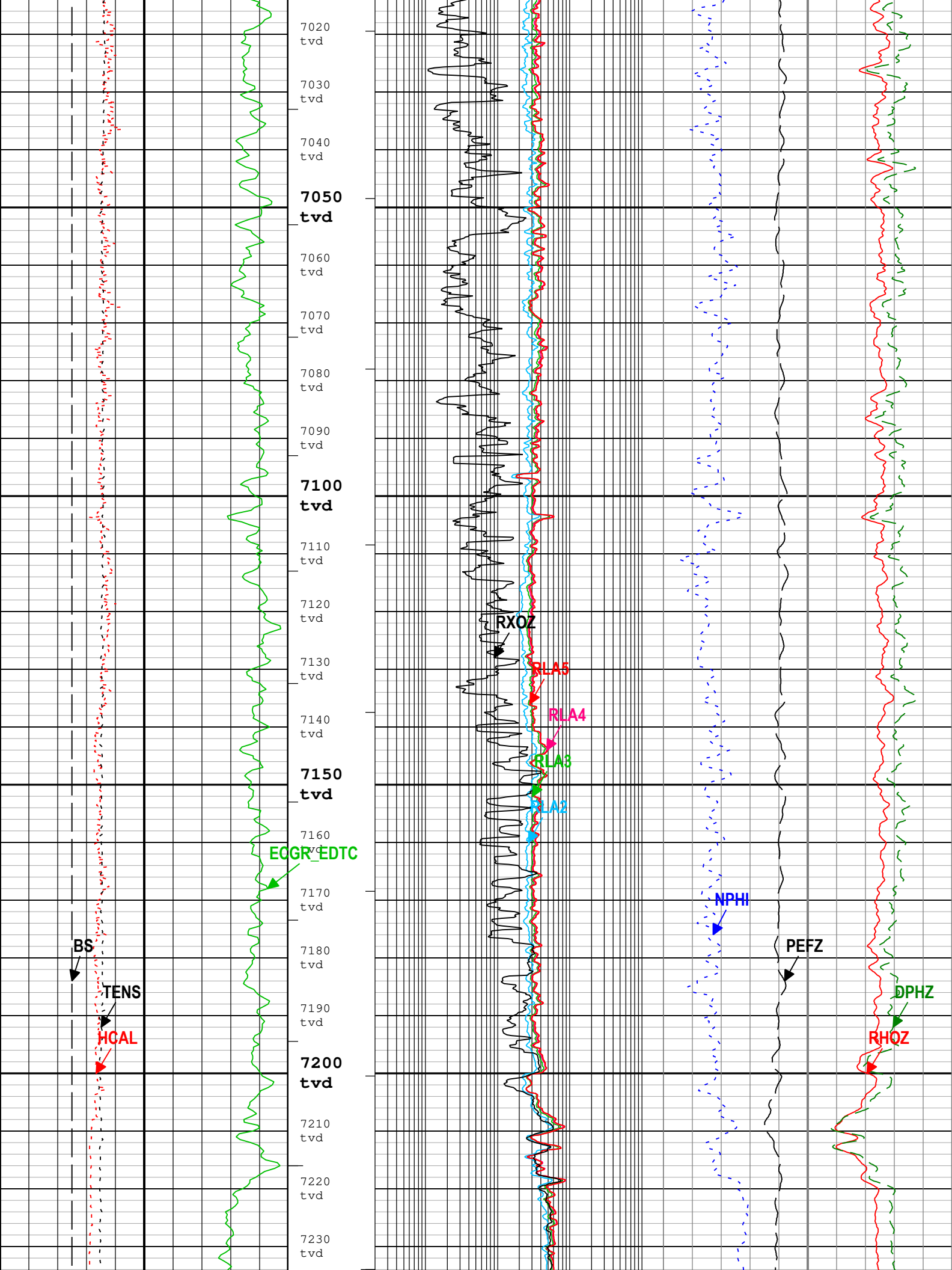


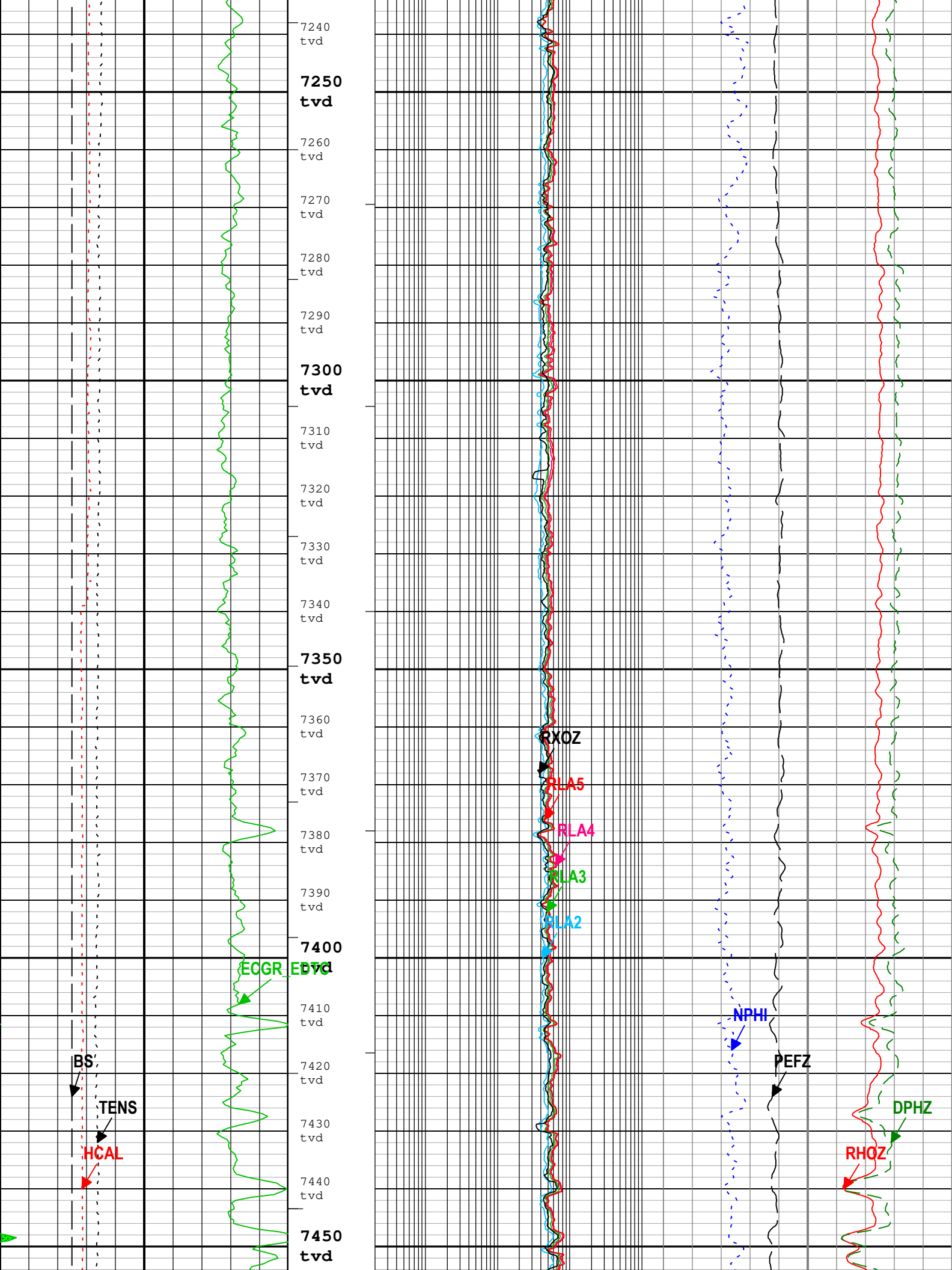


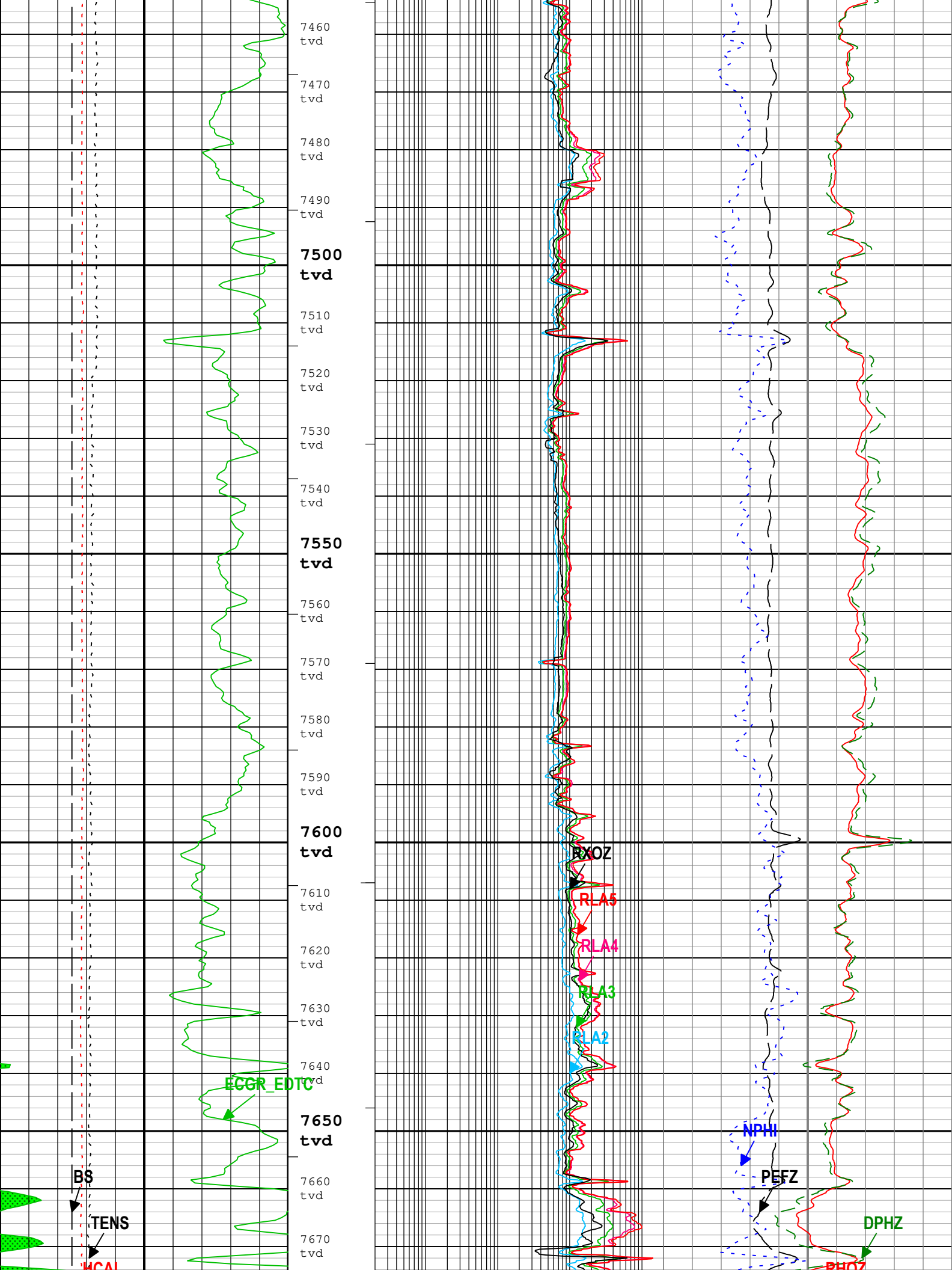


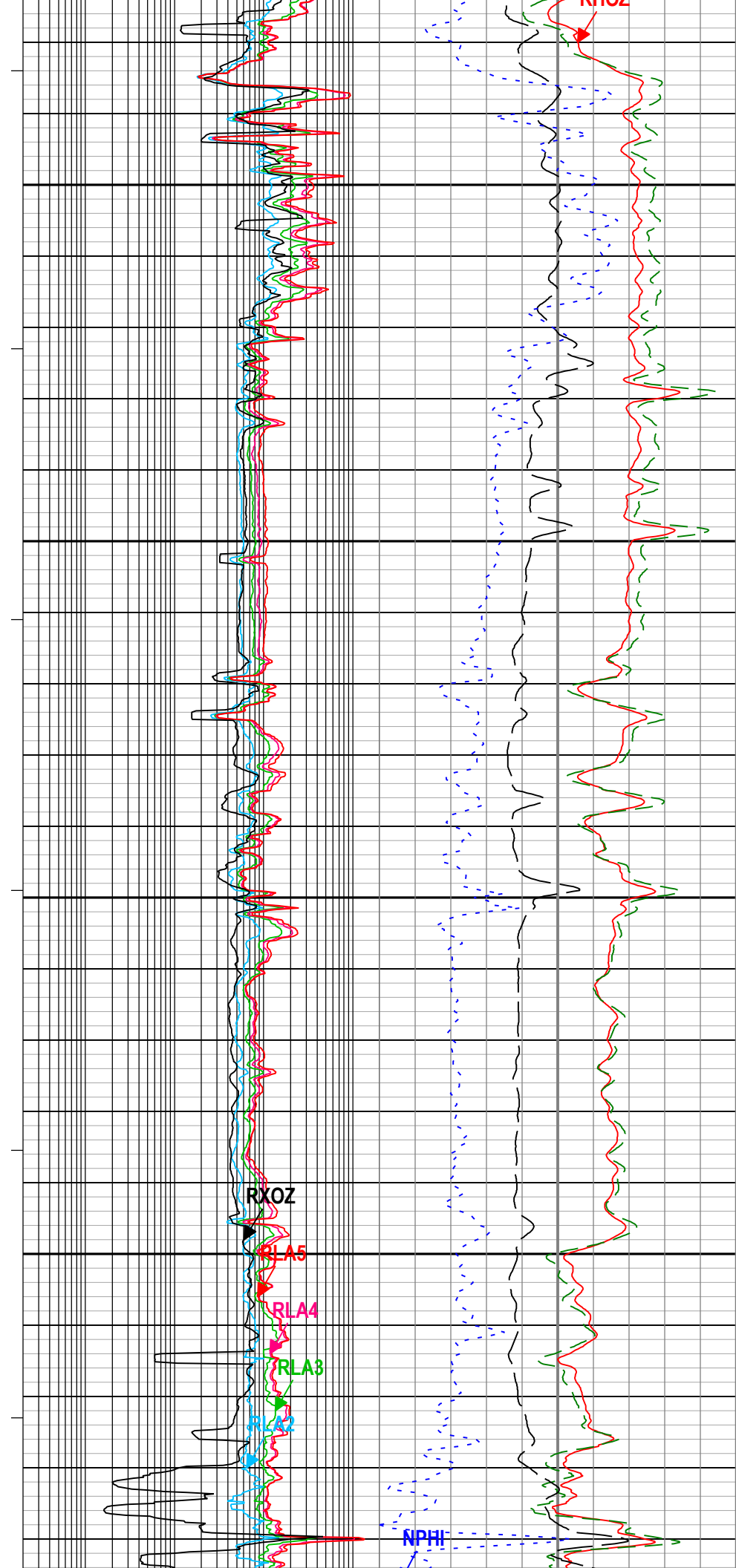
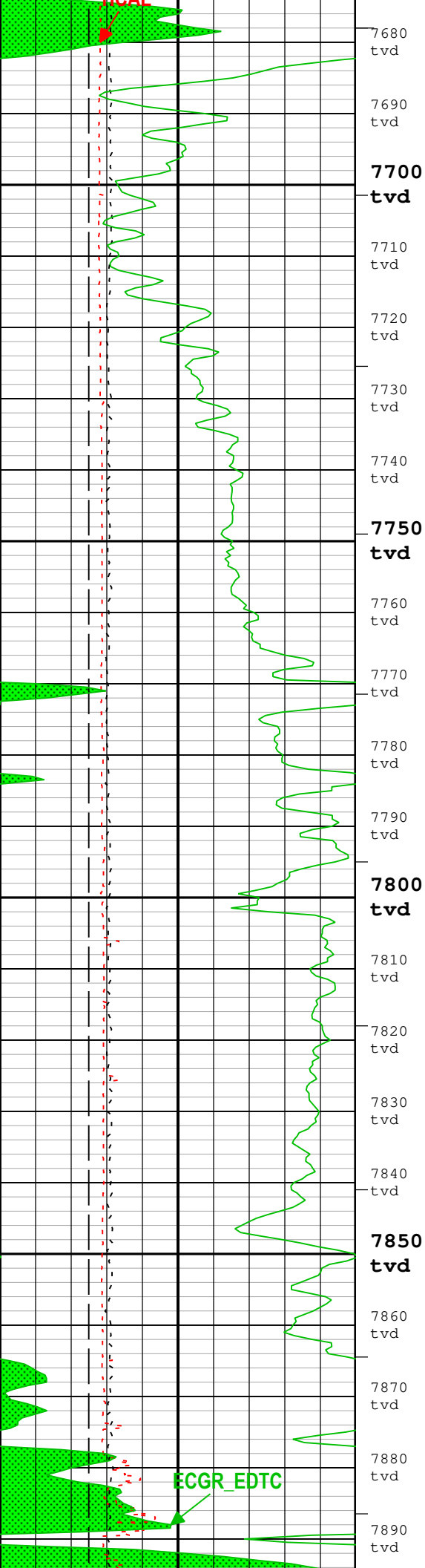


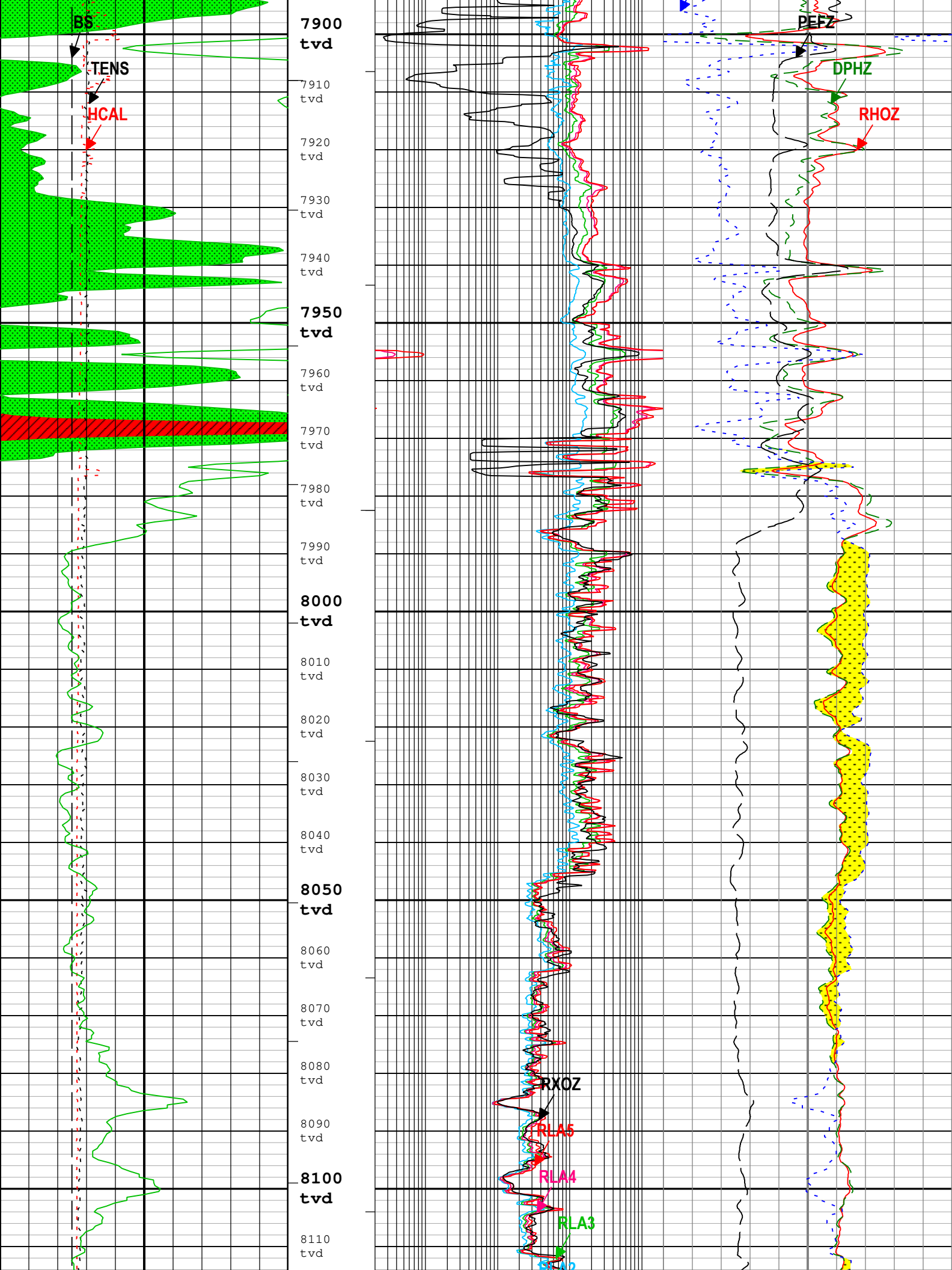


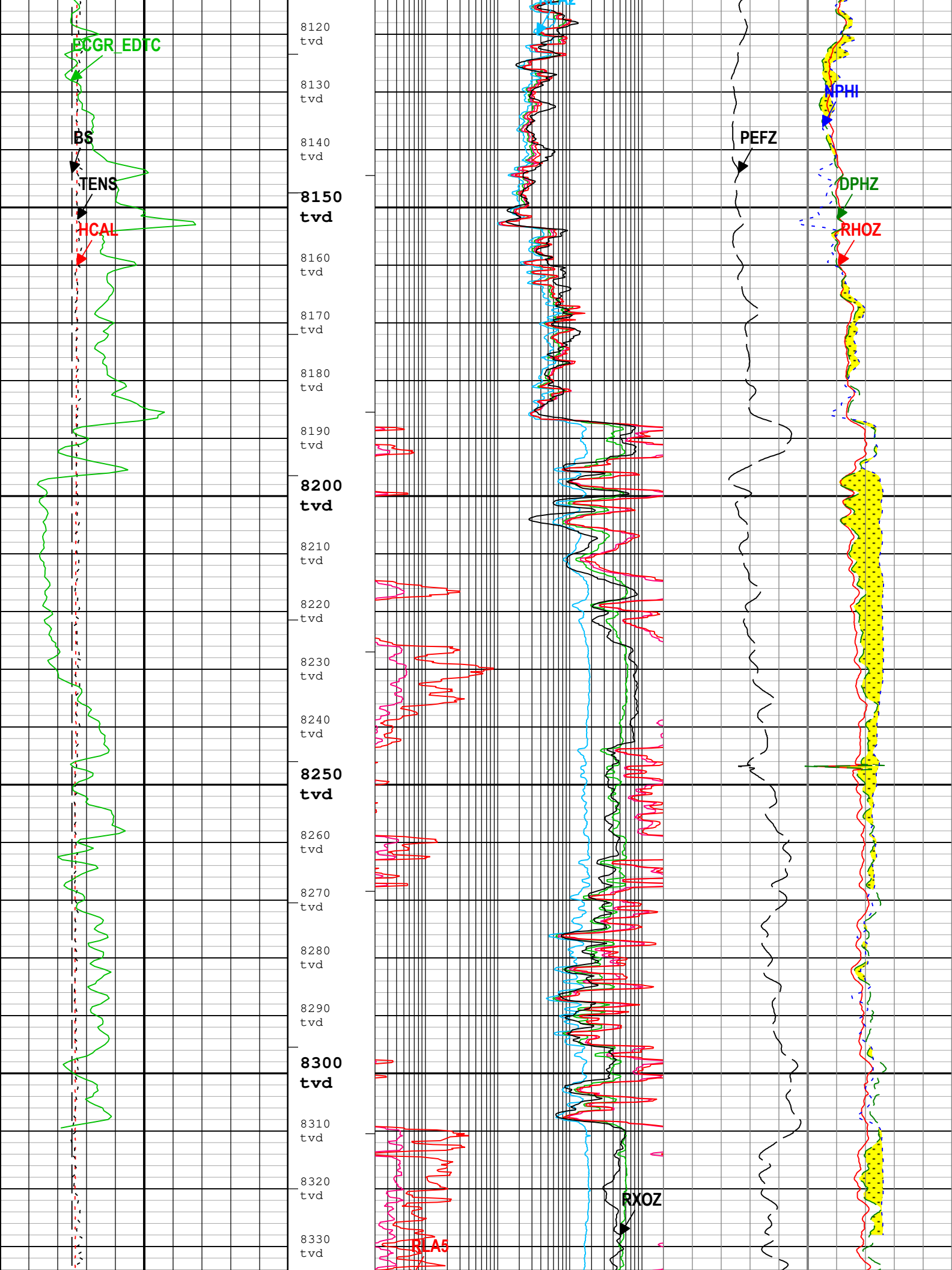


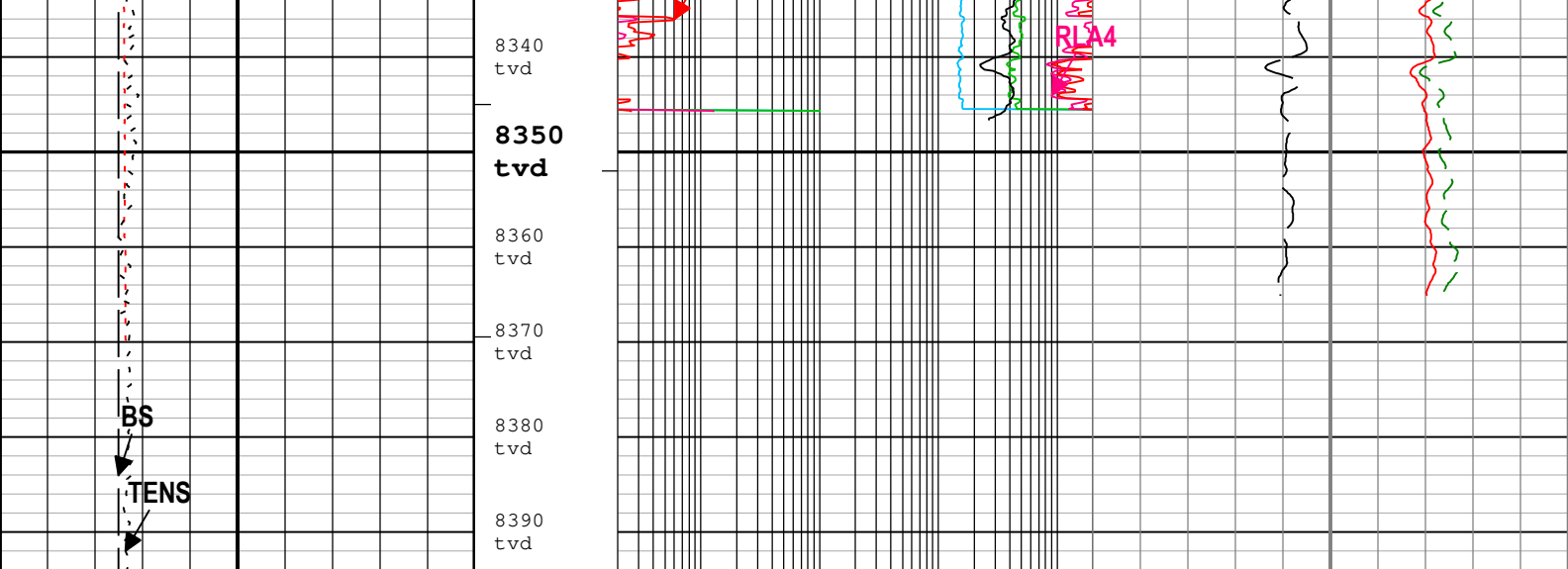












GR > 200 GAPI		
GR > 400 GAPI		
Caliper (HCAL) HDRS[1]		
6	in	16
Cable Tension (TENS)		
6000	lbf	0
Bit Size (BS) RT		
6	in	16
Gamma Ray (ECGR_EDTC) EDTC-B[1]		
0	gAPI	200

Apparent Resistivity from Computed Focusing Mode 2 (RLA2) HRLT-B[1]		
0.2	ohm.m	2000
Apparent Resistivity from Computed Focusing Mode 3 (RLA3) HRLT-B[1]		
0.2	ohm.m	2000
Apparent Resistivity from Computed Focusing Mode 4 (RLA4) HRLT-B[1]		
0.2	ohm.m	2000
Apparent Resistivity from Computed Focusing Mode 5 (RLA5) HRLT-B[1]		
0.2	ohm.m	2000
Invaded Formation Resistivity filtered at 18 inches (RXOZ) HDRS[1]		
0.2	ohm.m	2000

GAS EFFECT		
Standard Resolution Formation Density (RHOZ) HDRS[1]		
2	g/cm3	3
Standard Resolution Density Porosity (DPHZ) HDRS[1]		
0.3	ft3/ft3	-0.1
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS[1]		
0		10
Thermal Neutron Porosity (original Ratio Method) in Selected Lithology (NPHI) HGNS[1]		
0.3	ft3/ft3	-0.1

— IHV - Integrated Hole Volume every 100.00 (ft3)

— IHV - Integrated Hole Volume every 10.00 (ft3)

— ICV - Integrated Cement Volume every 100.00 (ft3)

— ICV - Integrated Cement Volume every 10.00 (ft3)

Description: Triple Combo standard resolution template for Platform Express Format: Log (BRADFORD TCOM) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: TVD Creation Date: 18-Apr-2019 11:50:45

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0.446	in
CBLO	Casing Bottom (Logger)	WLSESSION	2543	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	9.625	in
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.5	lbm/gal

DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DHC	Density Hole Correction	HDRS-H	Bit Size	
FCD	Future Casing (Outer) Diameter	WLSESSION	5.5	in
FD	Fluid Density	Borehole	1	g/cm3
GCLF	Coal-Like Formation	HDRS-H	No	
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GR_MULTIPLIER	Gamma Ray Multiplier	EDTC-B	1	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	MRES	
PROCRM	Mud Resistivity Select	HRLT-B	HRLT Compute	
HVCS	Integrated Hole Volume Caliper Selection	Borehole	Compute Area from GHD	
IHVC	Integrated Hole Volume Control	Borehole	Start	
KFAC_HRLT	HRLT Geometrical Factor Option	HRLT-B	Sonde	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3
MHCC	Switch to select MCFL High Contrast Correction	HDRS-H	No	
MPOF	MCFL Processing Operation Mode	HDRS-H	On	
NACO	Neutron Activation Correction	HDRS-H	Off	
NPRM	HRDD Nuclear Processing Mode	HDRS-H	Time Zoned	
NTCO	HRDD Nuclear Temperature Correction Option	HDRS-H	On	
PROCMSO	Mechanical Standoff Size	HRLT-B	1.5	in
PROCSP0	Sonde Position	HRLT-B	Eccentered	
SOCN	Standoff Distance	EDTC-B	0.125	in
SOCO	Standoff Correction Option	EDTC-B	No	
TPOS_EDTC	Tool Position: Centered or Eccentered	EDTC-B	Eccentered	

1ADepth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	2524.99	2542.91
BS	8.5	2542.91	8394.74

All depth are actual.

1ATime Zoned Parameters

Pass Log[2]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
NPRM	High Resolution	15-Apr-2019 07:56:46	15-Apr-2019 08:17:05	8396.33	8272.33

Pass Log[8]:Up

NPRM	Standard Resolution	15-Apr-2019 10:06:38	15-Apr-2019 10:51:09	8272.33	8084.83
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Pass Log[9]:Up

NPRM	Standard Resolution	15-Apr-2019 11:04:41	15-Apr-2019 16:11:56	8084.83	2500.83
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All depth are at tool zero.

Tool Control Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
HRGD_BOARD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h
NDTC	Nuclear Dead Time Correction	HDRS-H	On	
NPUC	Nuclear Pile-Up Correction	HDRS-H	Off	
STSO_HRDD	Temperature Source for the Density Algorithm	HDRS-H	HET data channel	

1A

REPEAT PASS 5"=100'

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
IHV	Integrated Hole Volume	GCSE_UP_PASS	280.61	ft3
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	163.64	ft3

Software Version

Acquisition System	Version
Maxwell 2019	9.0.106845.3100

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1A	Log[10]:Up	Up	7693.14 ft	8410.89 ft	15-Apr-2019 4:41:25 PM	15-Apr-2019 5:26:23 PM	ON	10.94 ft	Yes

All depths are referenced to toolstring zero

Log

Company:North East Natural Energy LLC Well:Boggess 17H
1A: Log[10]:Up:S024

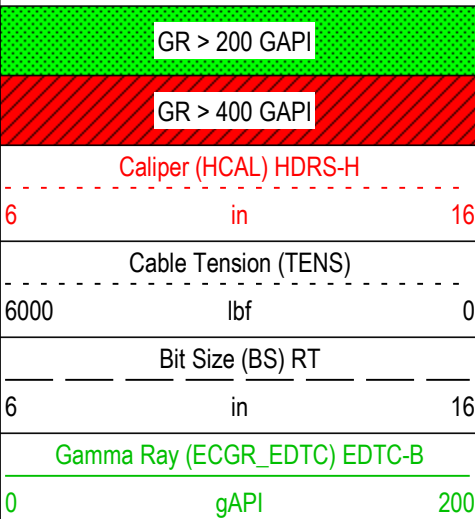
Description: Triple Combo standard resolution template for Platform Express Format: Log (BRADFORD TCOM) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: TVD Creation Date: 18-Apr-2019 11:51:08

—ICV - Integrated Cement Volume every 10.00 (ft3)

—ICV - Integrated Cement Volume every 100.00 (ft3)

—IHV - Integrated Hole Volume every 10.00 (ft3)

—IHV - Integrated Hole Volume every 100.00 (ft3)



Apparent Resistivity from Computed Focusing
Mode 2 (RLA2) HRLT-B

0.2 ohm.m 2000

GAS EFFECT

Apparent Resistivity from Computed Focusing
Mode 3 (RLA3) HRLT-B

0.2 ohm.m 2000

Standard Resolution Formation Density (RHOZ)
HDRS-H

2 g/cm3 3

Apparent Resistivity from Computed Focusing
Mode 4 (RLA4) HRLT-B

0.2 ohm.m 2000

Standard Resolution Density Porosity (DPHZ)
HDRS-H

0.3 ft3/ft3 -0.1

Apparent Resistivity from Computed Focusing
Mode 5 (RLA5) HRLT-B

0.2 ohm.m 2000

Standard Resolution Formation Photoelectric
Factor (PEFZ) HDRS-H

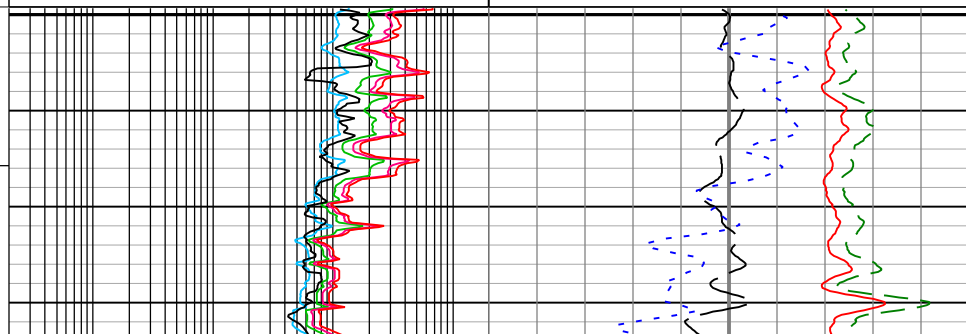
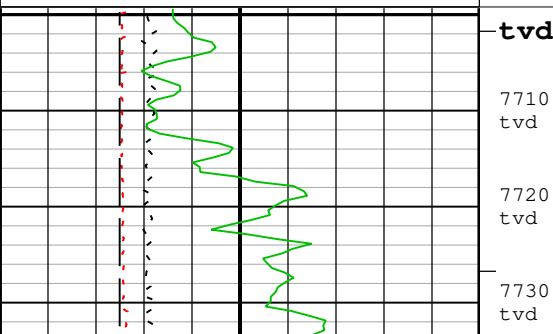
0 10

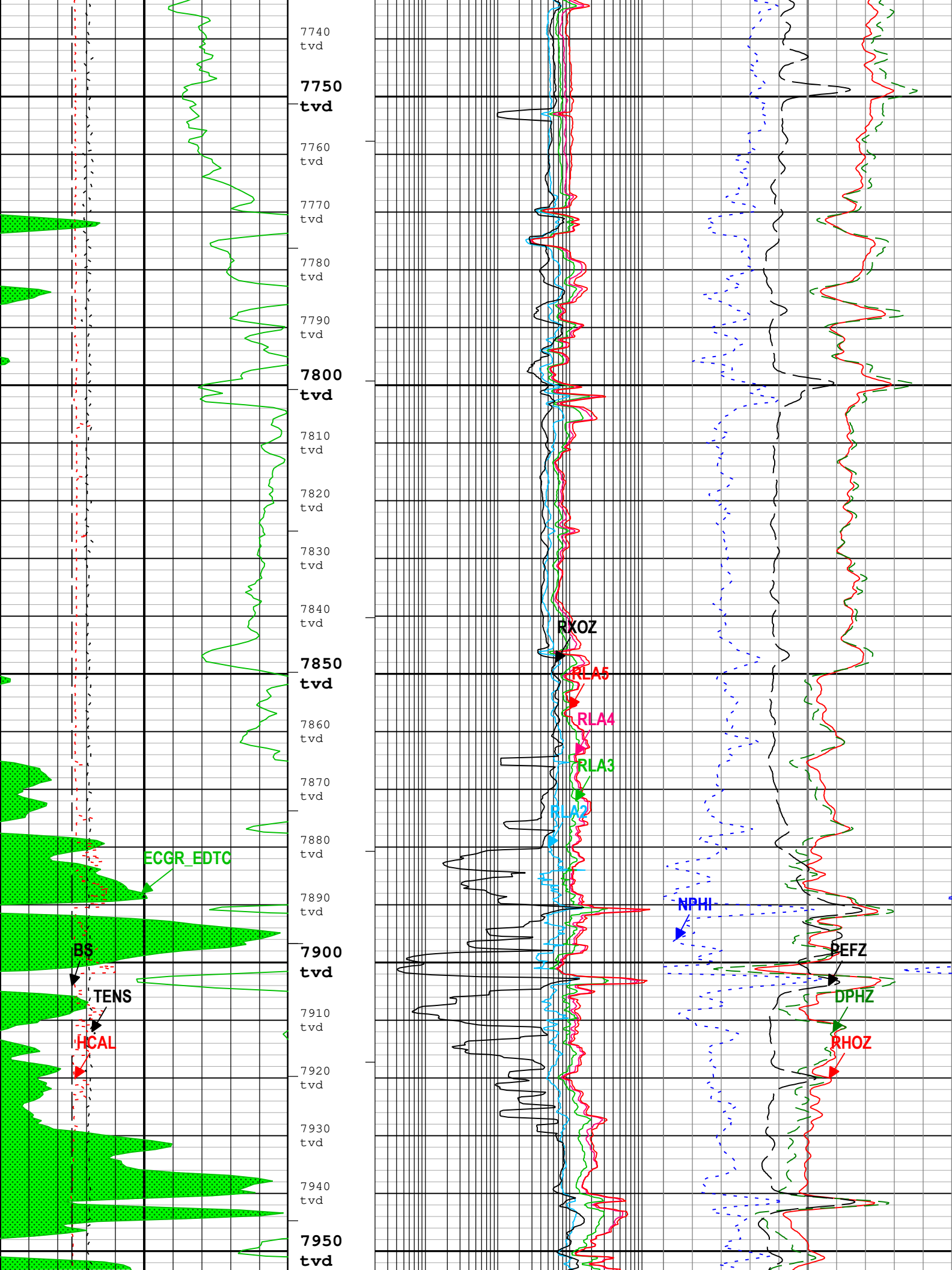
Invaded Formation Resistivity filtered at 18
inches (RXOZ) HDRS-H

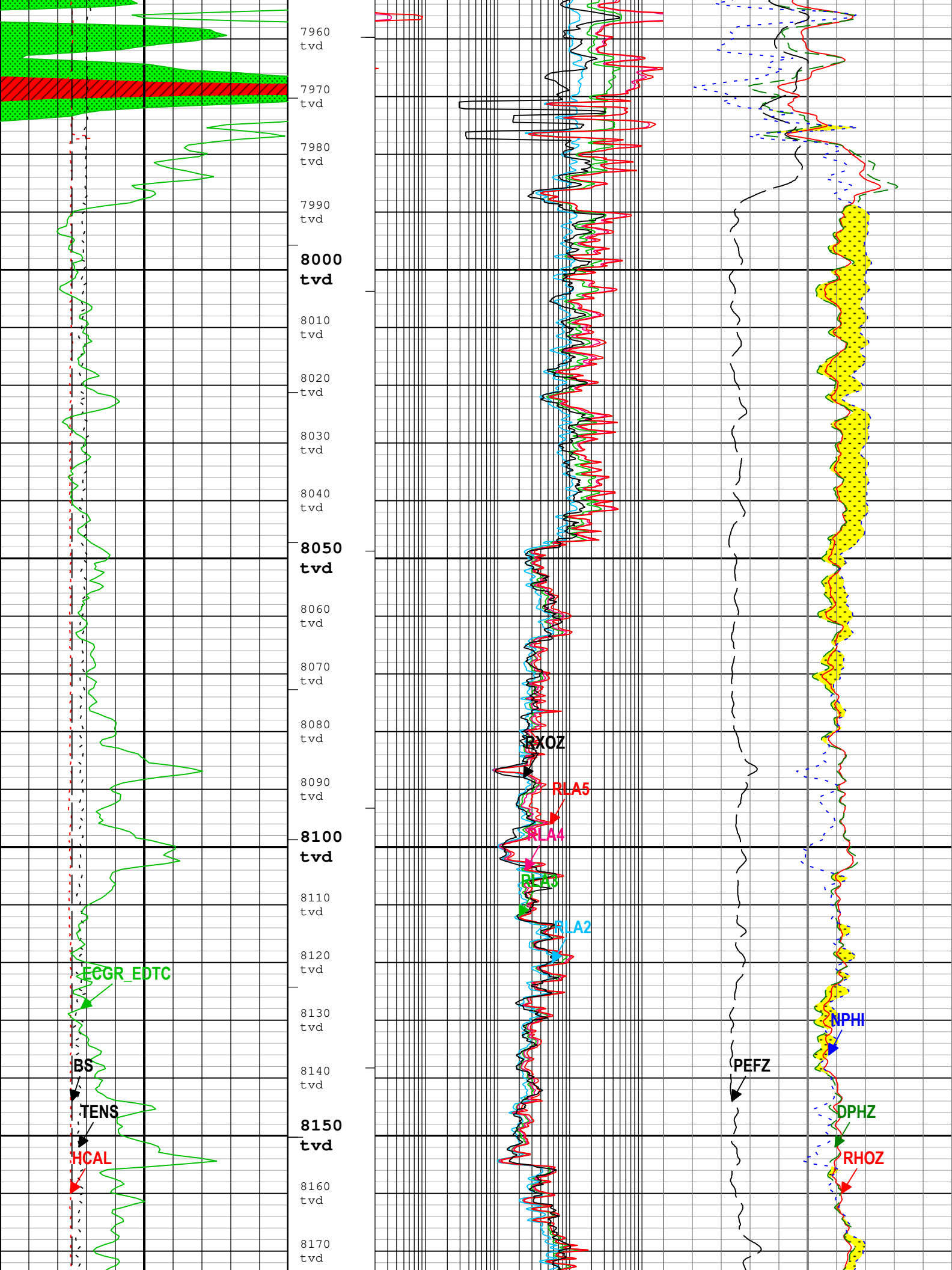
0.2 ohm.m 2000

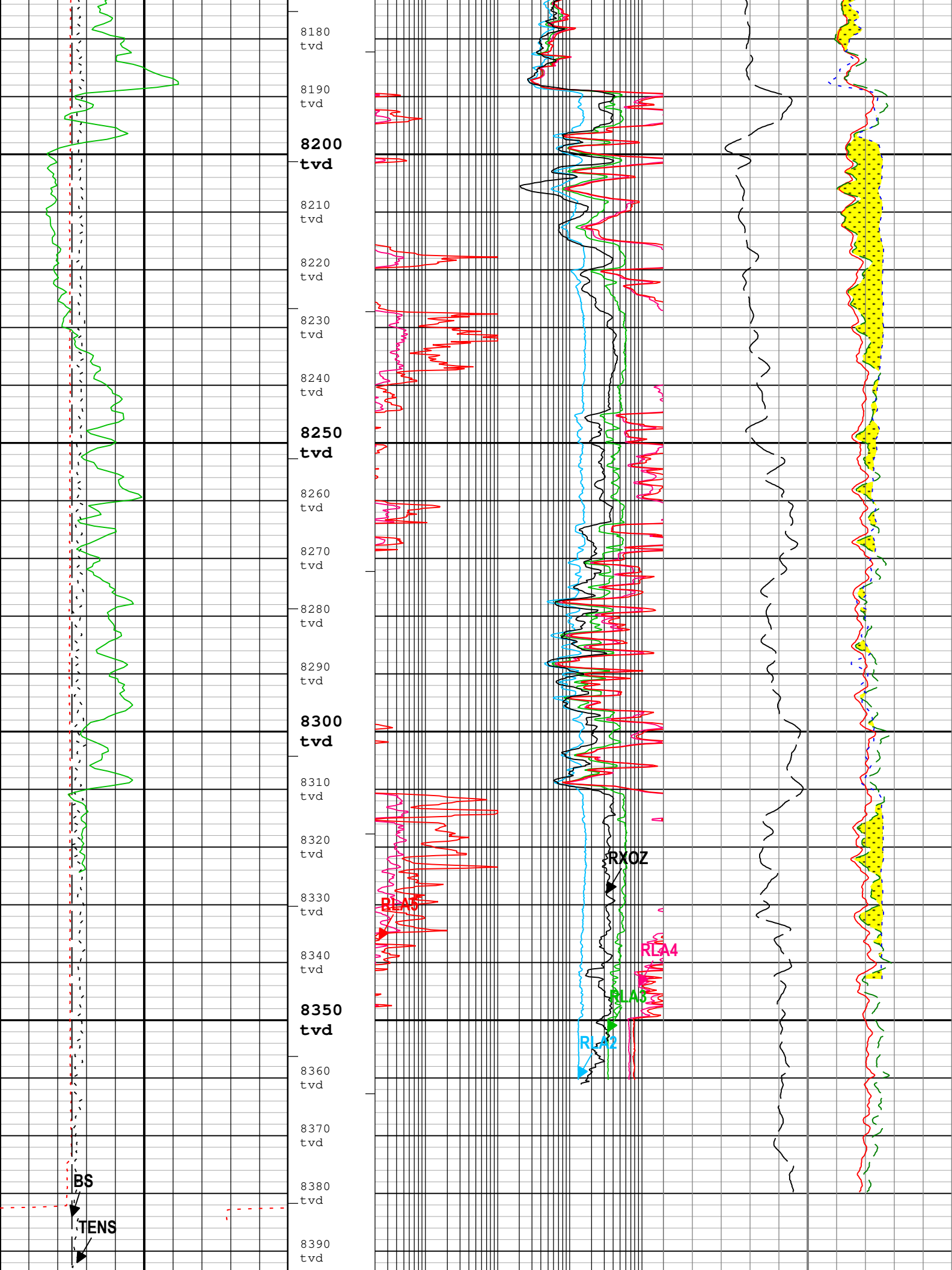
Thermal Neutron Porosity (original Ratio
Method) in Selected Lithology (NPHI) HGNS-H

0.3 ft3/ft3 -0.1









8400 tvd 8410								
GR > 200 GAPI			Apparent Resistivity from Computed Focusing Mode 2 (RLA2) HRLT-B			GAS EFFECT		
GR > 400 GAPI			0.2 ohm.m 2000			Standard Resolution Formation Density (RHOZ) HDRS-H		
Caliper (HCAL) HDRS-H			Apparent Resistivity from Computed Focusing Mode 3 (RLA3) HRLT-B			2 g/cm3 3		
6 in 16			0.2 ohm.m 2000			Standard Resolution Density Porosity (DPHZ) HDRS-H		
Cable Tension (TENS)			Apparent Resistivity from Computed Focusing Mode 4 (RLA4) HRLT-B			0.3 ft3/ft3 -0.1		
6000 lbf 0			0.2 ohm.m 2000			Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H		
Bit Size (BS) RT			Apparent Resistivity from Computed Focusing Mode 5 (RLA5) HRLT-B			0 10		
6 in 16			0.2 ohm.m 2000			Thermal Neutron Porosity (original Ratio Method) in Selected Lithology (NPHI) HGNS-H		
Gamma Ray (ECGR_EDTC) EDTC-B			Invaded Formation Resistivity filtered at 18 inches (RXOZ) HDRS-H			0.3 ft3/ft3 -0.1		
0 gAPI 200			0.2 ohm.m 2000					

Description: Triple Combo standard resolution template for Platform Express Format: Log (BRADFORD TCOM) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: TVD Creation Date: 18-Apr-2019 11:51:08

Channel Processing Parameters

1A: Parameters

Parameter	Description	Tool	Value	Unit
BARI(ISSBAR)	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.5	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0.446	in
CBLO	Casing Bottom (Logger)	WLSESSION	2543	ft
CDEN	Cement Density	EDTC-B	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.5	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DHC	Density Hole Correction	HDRS-H	Bit Size	
FCD	Future Casing (Outer) Diameter	WLSESSION	5.5	in
FD	Fluid Density	Borehole	1	g/cm3
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS(RT)	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	MRES	
PROCRM	Mud Resistivity Select	HRLT-B	HRLT Compute	
KFAC_HRLT	HRLT Geometrical Factor Option	HRLT-B	Sonde	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3

NPRM	HRDD Nuclear Processing Mode	HDRS-H	High Resolution	
PROCMSO	Mechanical Standoff Size	HRLT-B	1.5	in
PROCSP0	Sonde Position	HRLT-B	Eccentered	

Tool Control Parameters				
1A: Parameters				
Parameter	Description	Tool	Value	Unit
HRGD_BOARD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

Company: North East Natural Energy LLC

Schlumberger

Well: Boggess 17H

Field: Wildcat

County: Monongalia

State: West Virginia

PLATFORM EXPRESS

TRIPLE COMBO / LITHO-DENSITY / COMPENSATED NEUTRON
RESISTIVITY / GAMMA RAY / CALIPER