

Company: OMIMEX PETROLEUM INC.

Well: CLARK 6-21

Field: FRUIT NORTH

County: KIOWA State: KANSAS

County: KIOWA
Field: FRUIT NORTH
Location:
Well: CLARK 6-21
Company: OMIMEX PETROLEUM INC.TRIPLE COMBO
ARRAY INDUCTION
LITHO-DENSITY / COMPENSATED NEUTRON

Location:		Elev.:	K.B.	2106.10 ft
SHL: 2278' FNL AND 2248' FWL			G.L.	2095.10 ft
			D.F.	2104.10 ft
Permanent Datum:	Ground Level	Elev.:	2095.10 f	
Log Measured From:	Kelly Bushing	11.00 ft	above Perm.Datum	
Drilling Measured From:	Kelly Bushing			
API Serial No.	Section:	Township:	Range:	
15-097-21812	21	27	16	

Logging Date	30-Oct-2014		
Run Number	ONE		
Depth Driller	5022.00 ft		
Schlumberger Depth	5022.00 ft		
Bottom Log Interval	5022.00 ft		
Top Log Interval	608.00 ft		
Casing Driller Size @ Depth	8.625 in @ 610.00 ft		
Casing Schlumberger	608 ft		
Bit Size	7.875 in		
Type Fluid In Hole	Fresh WBM		
Density	Viscosity	55 s	
Fluid Loss	PH	9	
Source of Sample	Active Tank		
RM @ Meas Temp	0.5 ohm.m	@ 75 degF	
RMF @ Meas Temp	0.43 ohm.m	@ 75 degF	
RMC @ Meas Temp	0.58 ohm.m	@ 68 degF	
Source RMF	Calculated	Calculated	
RM @ BHT	0.33 @ 118	0.28 @ 118	
Max Recorded Temperatures	118		
Circulation Stopped	30-Oct-2014 10:00:00		
Logger on Bottom	30-Oct-2014 14:20:39		
Unit Number	Location:	ELK CITY, OK	
Recorded By	DERYK REQUE		
Witnessed By	JARED LOUP		

Disclaimer

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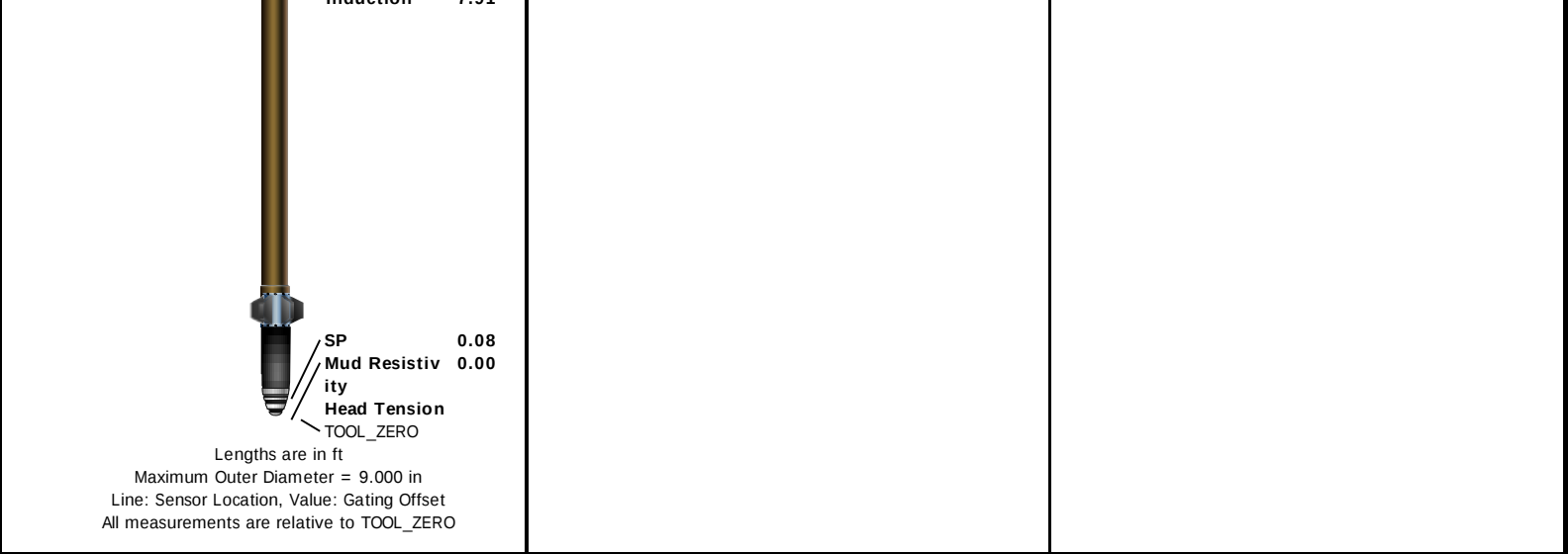
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Remarks and Equipment Summary

ONE: Toolstring				ONE: Remarks
Equip name LEH-QT LEH-QT	Length 43.57	MP name	Offset	Thanks for choosing Schlumberger of Elk City, OK - - (580) 225-4300 - - Your crew today was Deryk, Wayne and Chase.
				All logs are computed on a Limestone matrix. MDEN =- 2.71 g/cc
DTC-H ECH-KC DTC-H	40.65	CTEM HV	39.75 0.00	Data is presented using standard Elk City presentations.
		TelStatus ToolStatus Temperature	37.65 37.65 37.62	A mud sample was obtained. Rm was measured to be 0.55 at 75°F. Rmc and Rmf were calculated.
HGNS-H HGNH NSR-F:5010 NPV-N HGNS-H HMCA-H HACCZ-H:4166	37.65	GR	36.91	Main pass was pulled from TD to CSG. Client requested High Res pass from TD to 4000'.
				Tool response is adversely affected by washout and borehole rugosity.
				SP anomaly is observed on main pass. Downlog SP presented per client request.
		CNL Porosity HMCA HGNS Acceleromete r	30.57 28.24 28.24 0.00	
HDRS-H ECH-MEB HRCC-H HRMS-H Short Spacing GSR-J:5350 GPV-Q HRGD-H:3832 Backscatter Long Spacing	28.24	HRCC	24.24	
		MCFL Caliper TLD Density	18.81 18.33 17.94	
AIT-M:154 AMIS:154 AMRM	16.00	Temperature Power Supply Induction	7.91 7.91 7.91	



Depth Summary

	ONE		
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Depth Measuring Device

Type	IDW-JA		
Serial Number	5997		
Calibration Date	15-MAY-2014		
Calibrator Serial Number	33		
Calibration Cable Type	7-46 PXS		
Wheel Correction 1	-5		
Wheel Correction 2	-2		

Tension Device

Type	CMTD-B/A		
Serial Number	2852		
Calibration Date	20-AUG-2014		
Calibrator Serial Number	1018		
Number of Calibration Points	10		
Calibration Root Mean Square Error	15		
Calibration Peak Error	29		

Logging Cable

Type	7-46P-XS		
Serial Number	U712049		
Length	18250.00 ft		
Conveyance Type	Wireline		
Rig Type	LAND, DOUBLE, KELLY		

ONE:Depth Control Parameters

Log Sequence	First Log In the Well	Depth Control Remarks
Rig Up Length At Surface		
Rig Up Length At Bottom		
Rig Up Length Correction		
Stretch Correction		
Tool Zero Check At Surface		

Merge Composite

Triple Combo Main Pass 5" = 100'

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Log[1]:Down	Down	201.15 ft	5020.34 ft	30-Oct-2014 2:33:59 PM	30-Oct-2014 3:11:20 PM	ON	0.00 ft	No
ONE	Log[1]:Up	Up	201.15 ft	5020.34 ft	30-Oct-2014 3:11:20 PM	30-Oct-2014 3:11:20 PM	ON	0.00 ft	No

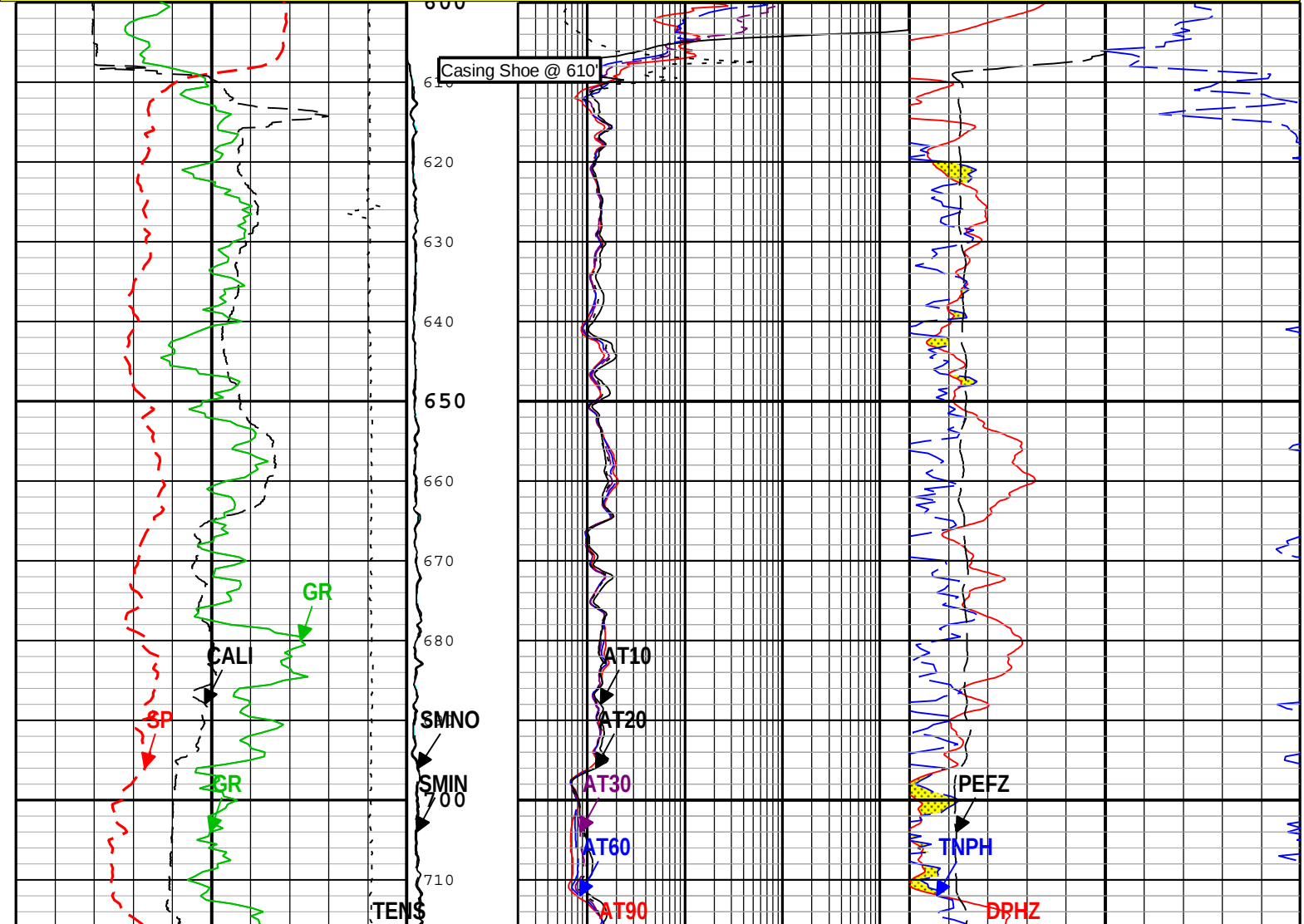
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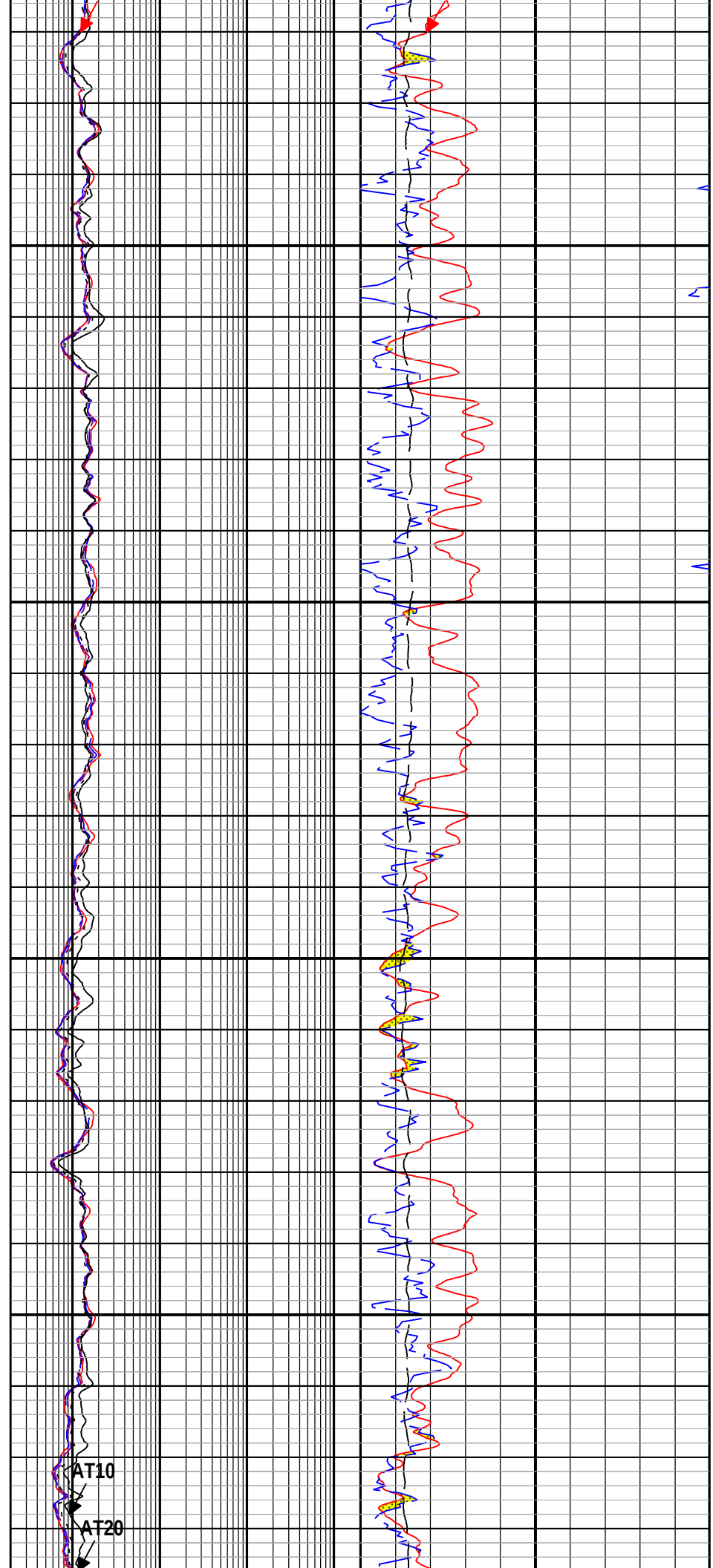
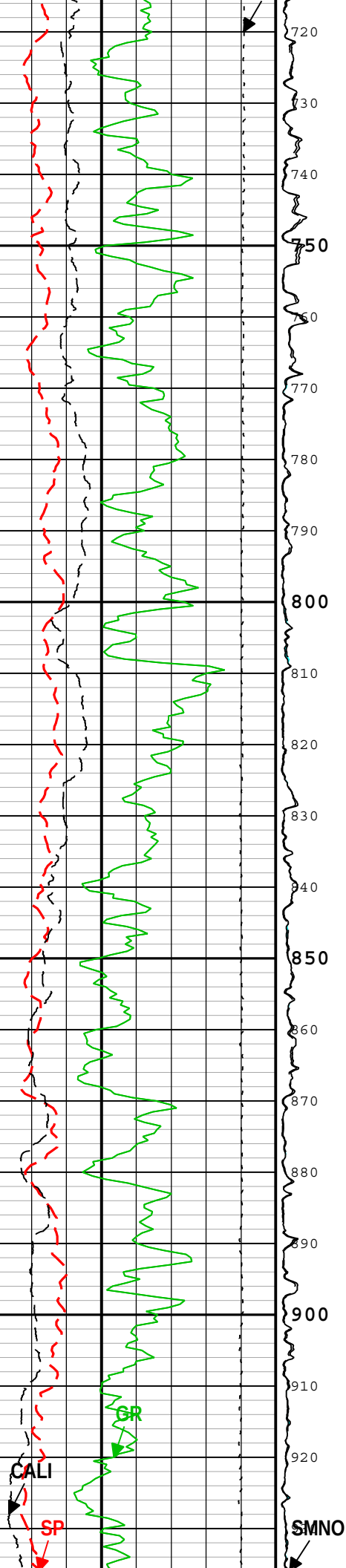
Log	Company:OMIMEX PETROLEUM INC.		Well:CLARK 6-21
	Merge Composite:S004		

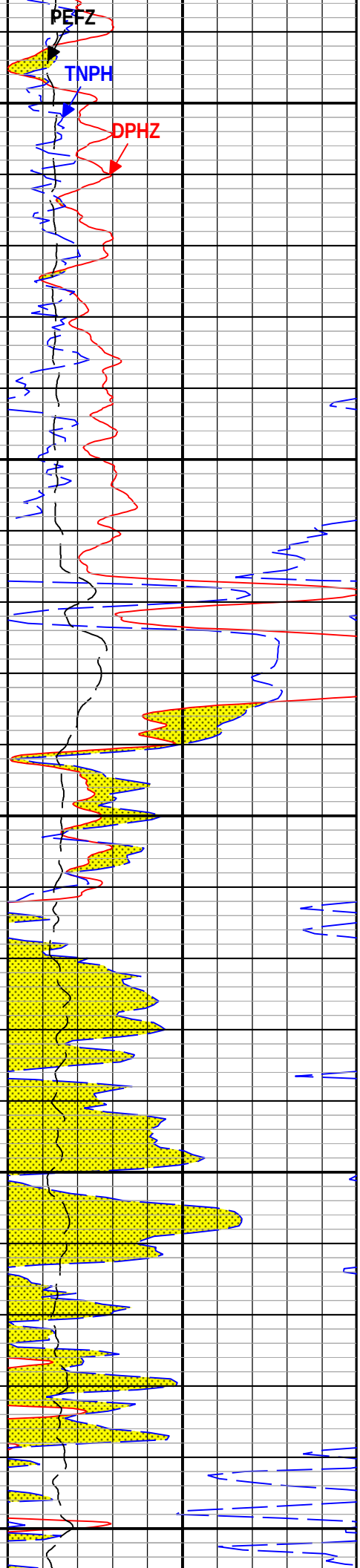
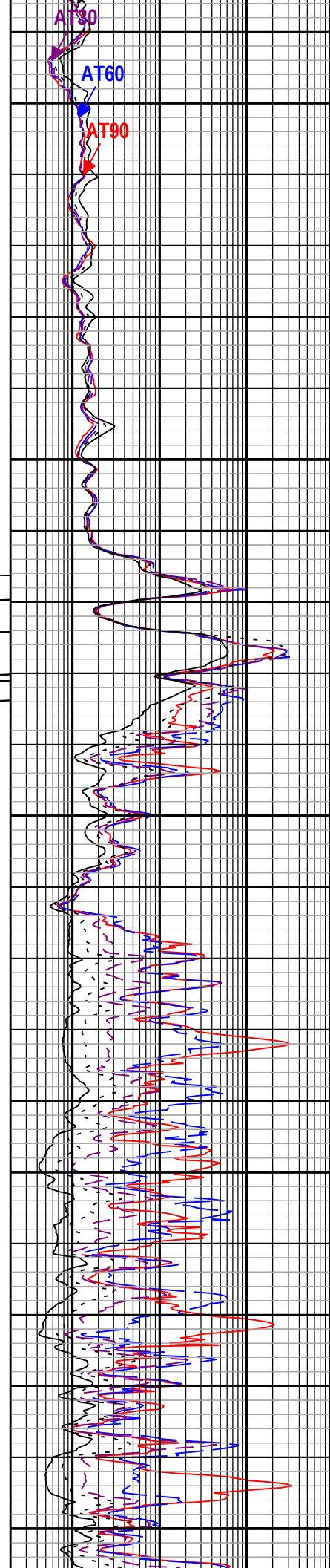
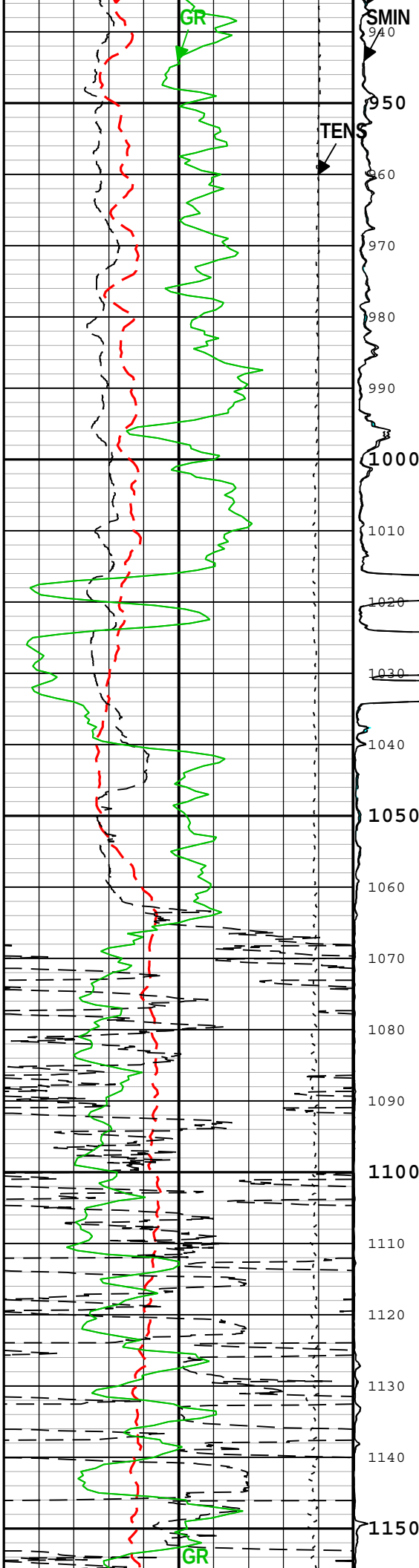
Description: HGNS standard resolution porosities for Platform Express Format: Log (TCOM Main 5in) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 30-Oct-2014 17:49:06

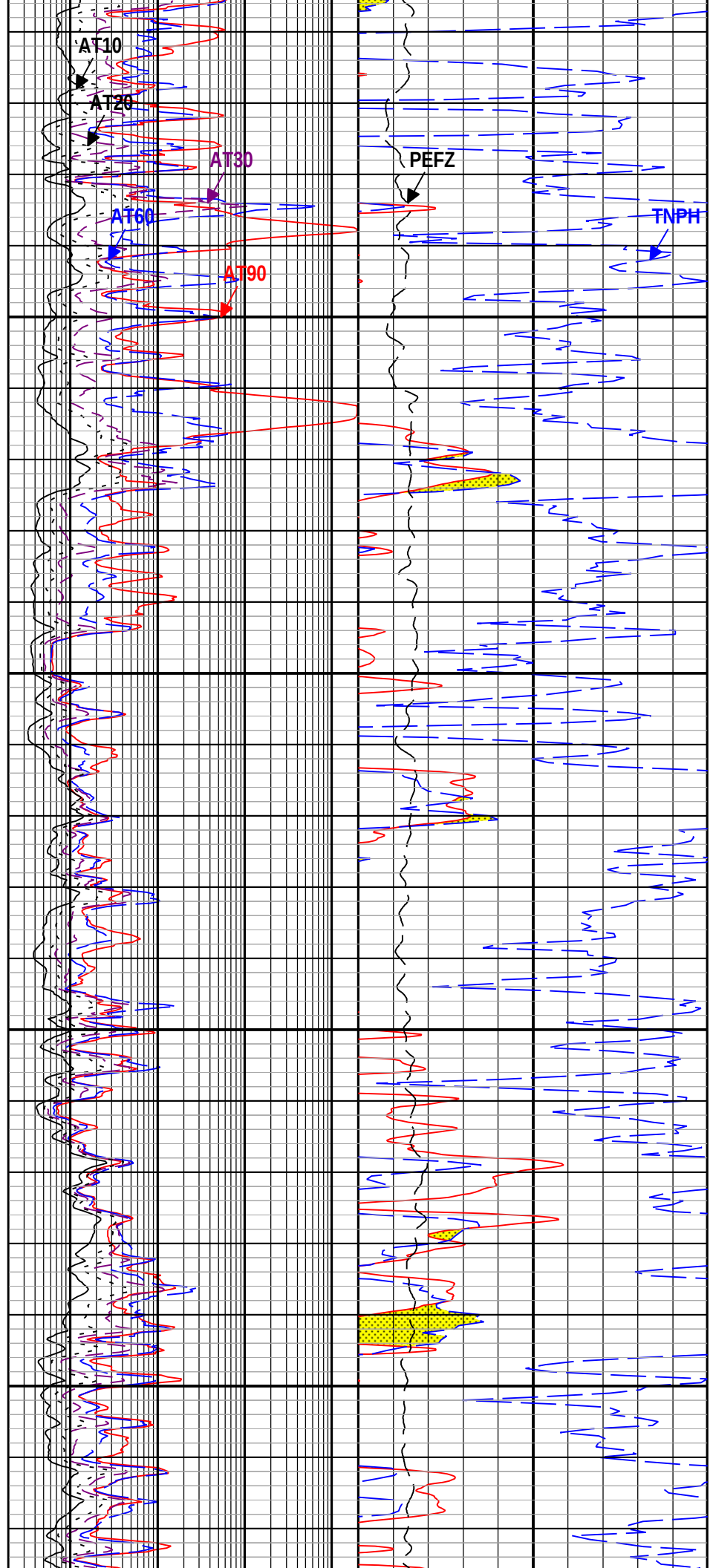
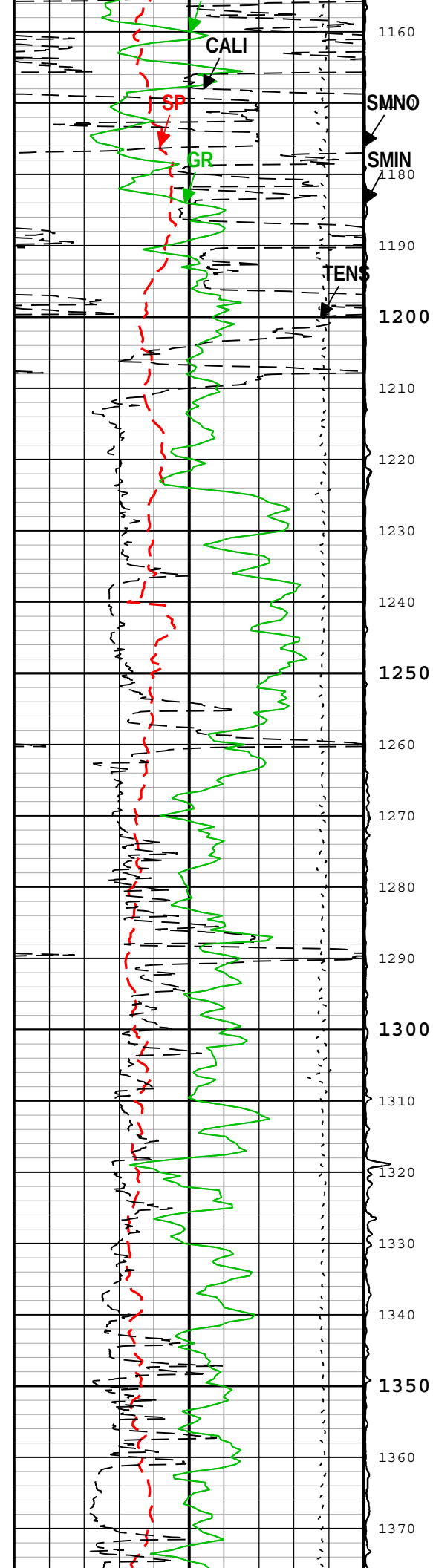
			Array Induction Two Foot Resistivity A90 (AT90) AIT-M			
			0.2	ohm.m	2000	
			Array Induction Two Foot Resistivity A60 (AT60) AIT-M			
			0.2	ohm.m	2000	
Gamma Ray Backup					Crossover	
Cable Tension (TENS)						
10000	lbf	0	Array Induction Two Foot Resistivity A30 (AT30) AIT-M		Standard Resolution Density Porosity (DPHZ) HDRS-H	
Gamma Ray (GR) HGNS-H			0.2	ohm.m	2000	0.3 ft3/ft3 -0.1
0	gAPI	150	Array Induction Two Foot Resistivity A20 (AT20) AIT-M		Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) HGNS-H	
Spontaneous Potential (SP) AIT-M			0.2	ohm.m	2000	0.3 m3/m3 -0.1
-160	mV	40	Array Induction Two Foot Resistivity A10 (AT10) AIT-M		Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H	
Caliper (CALI) HDRS-H			0.2	ohm.m	2000	
6	in	16				
Gamma Ray (GR) HGNS-H						
0	gAPI	150				
Possible Perm						
Synthetic Micro-Inverse Resistivity (SMIN) HDRS-H						
0	ohm.m	20				
Synthetic Micro-Normal Resistivity (SMNO) HDRS-H						
0	ohm.m	20				

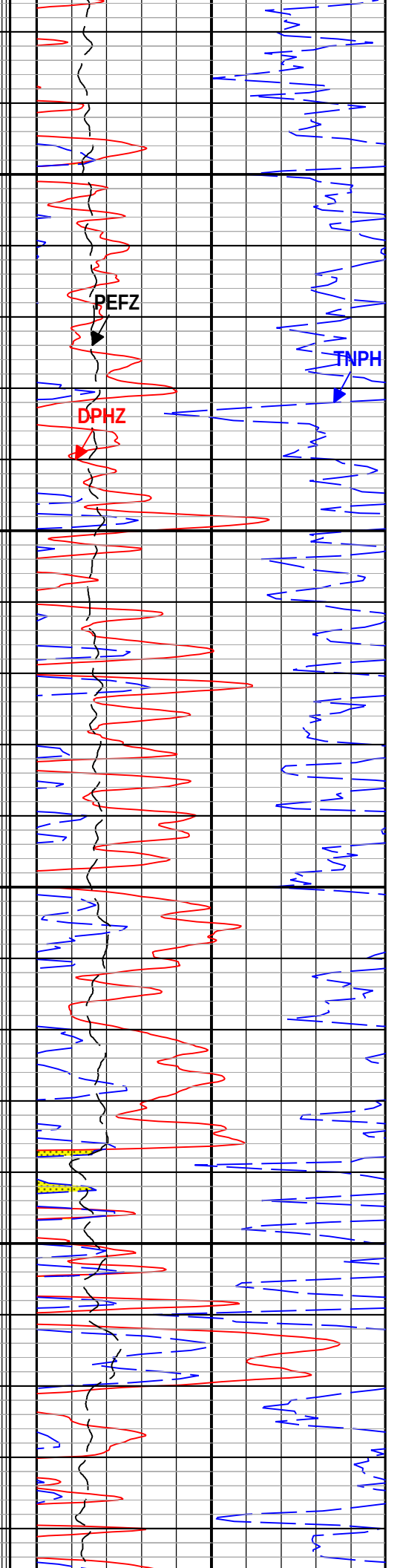
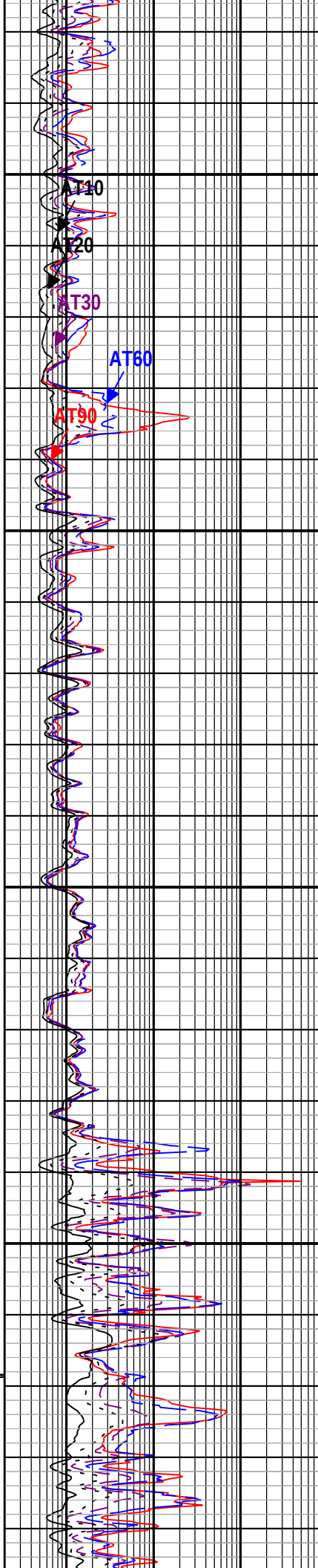
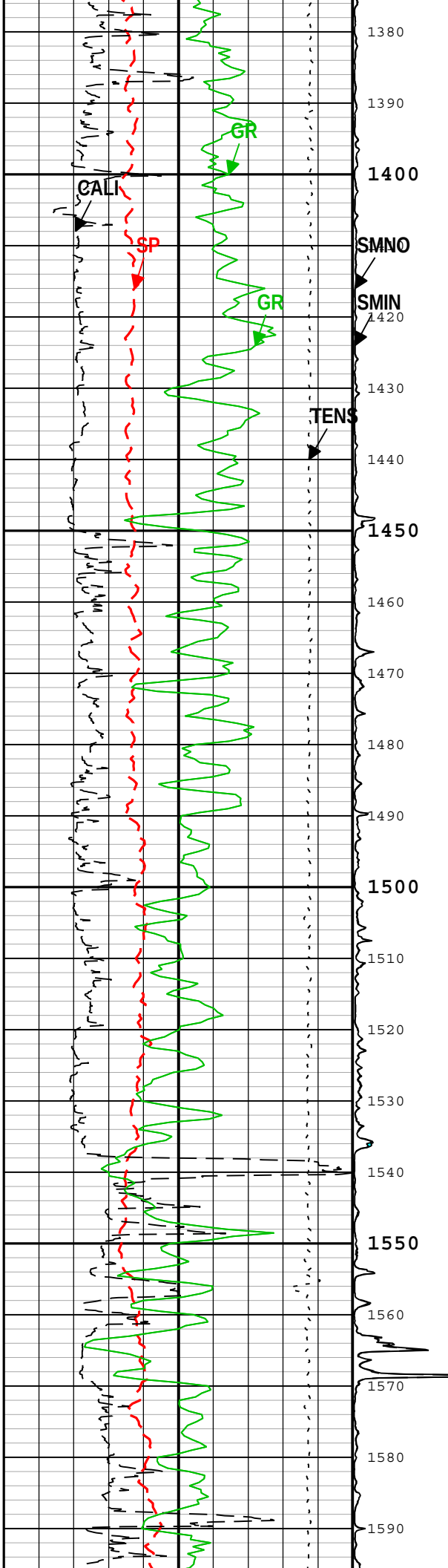
Triple Combo Main Pass 5" = 100'

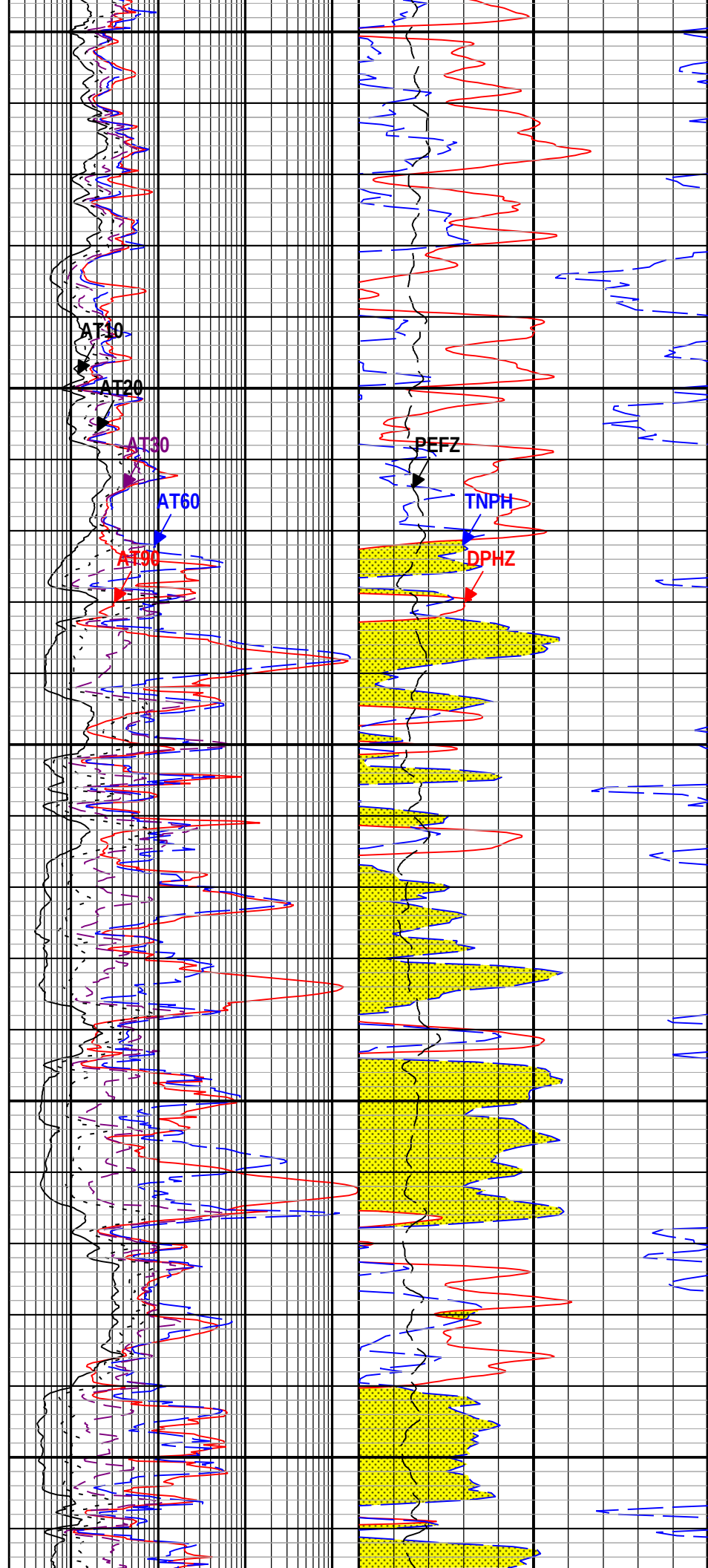
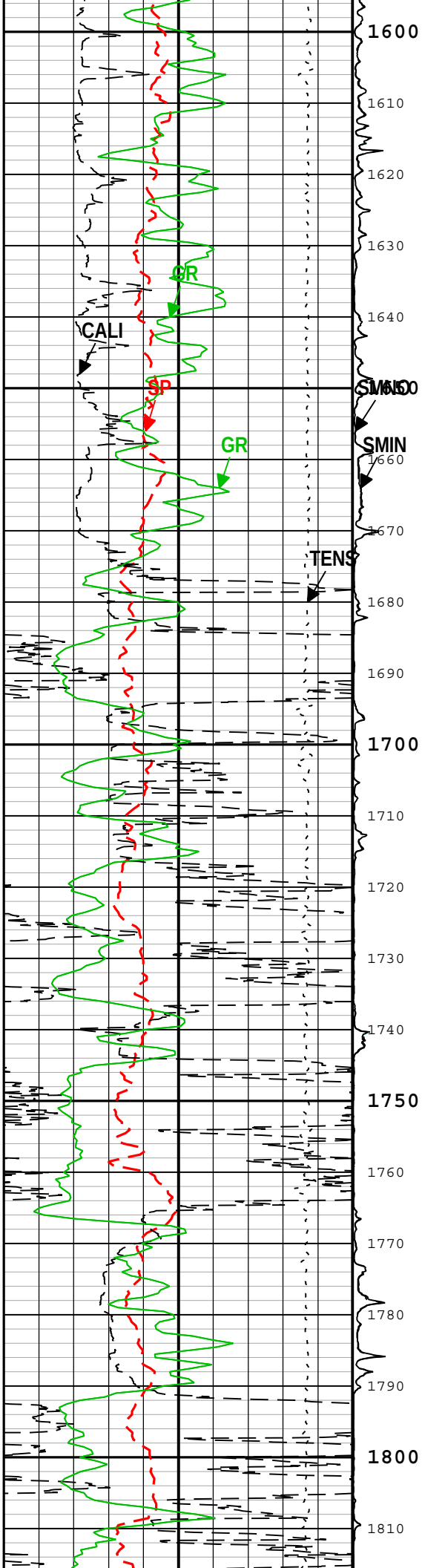


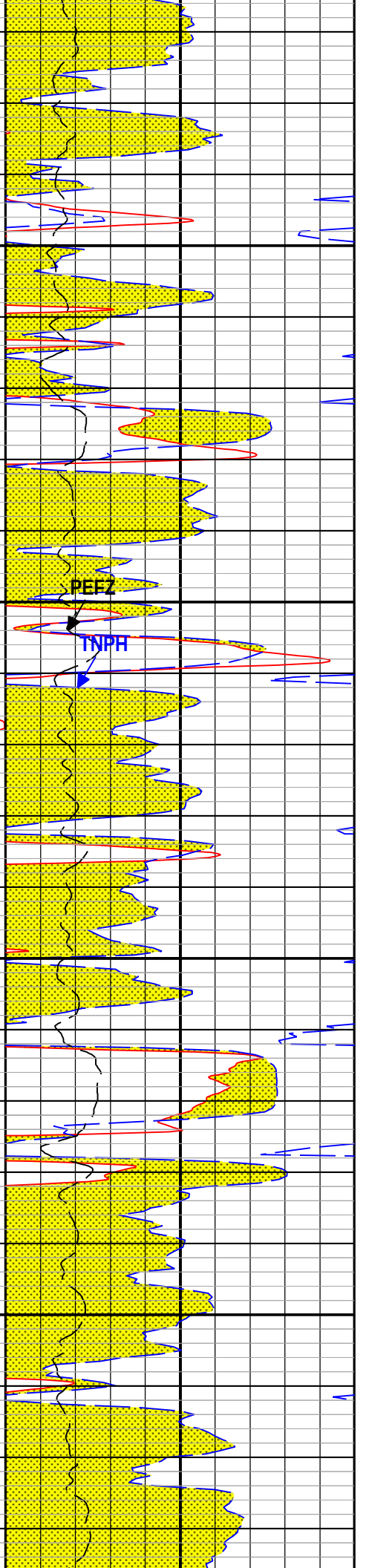
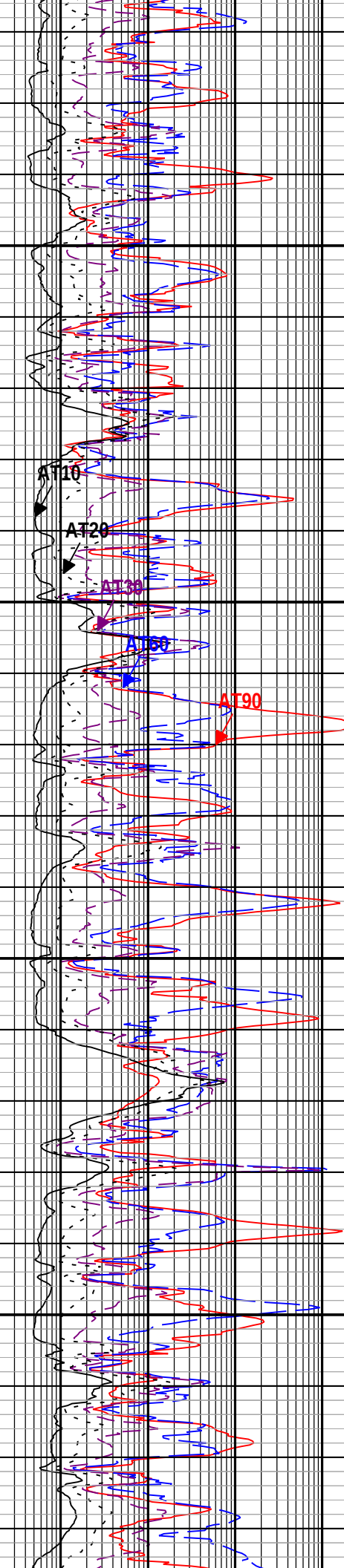
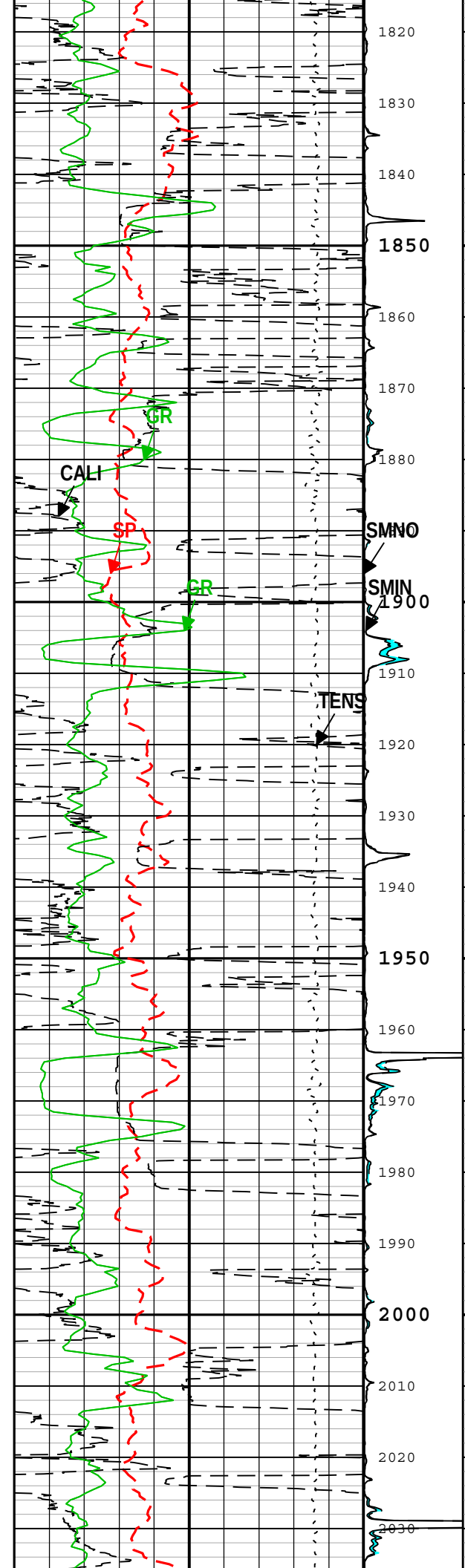


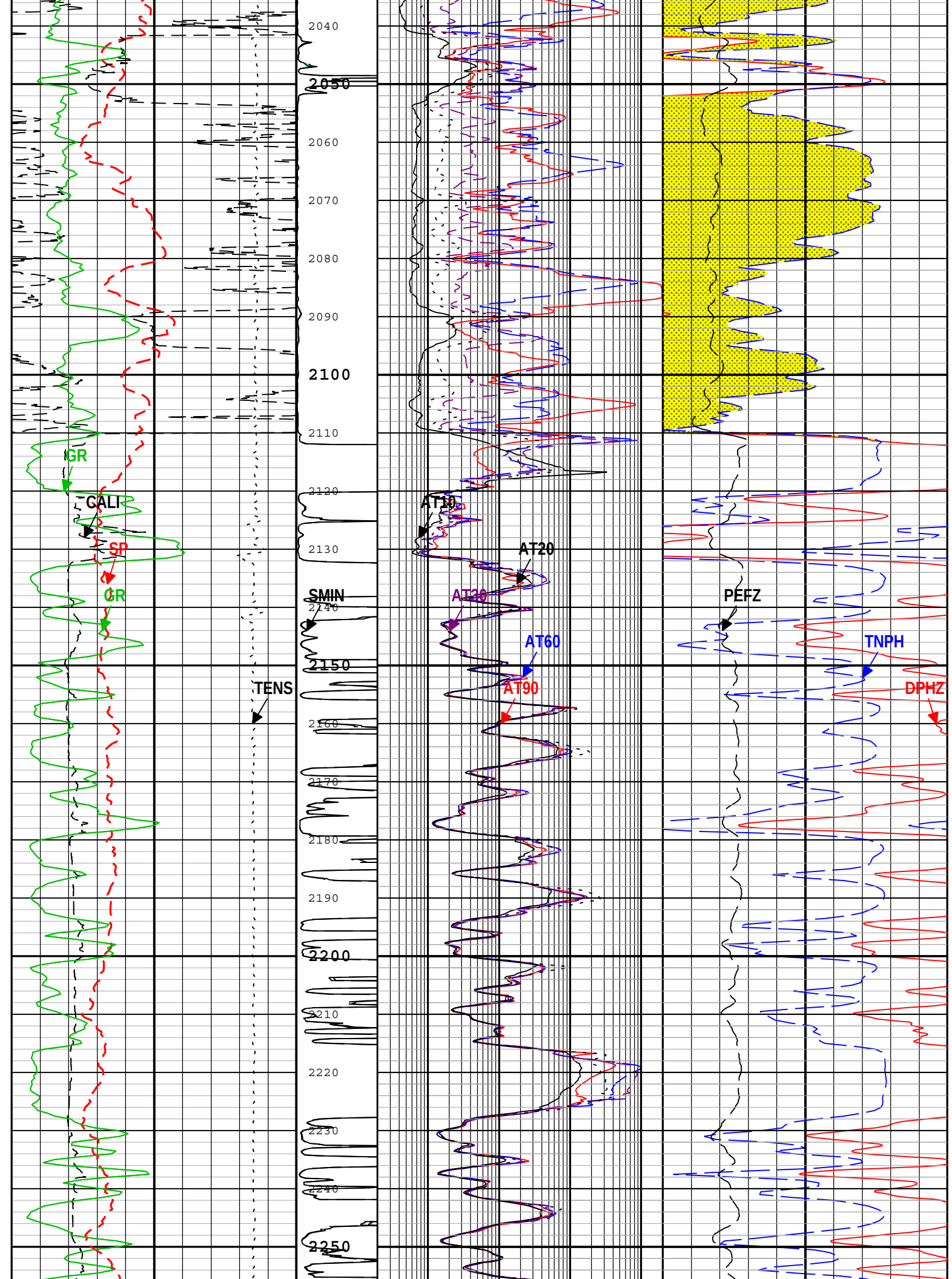


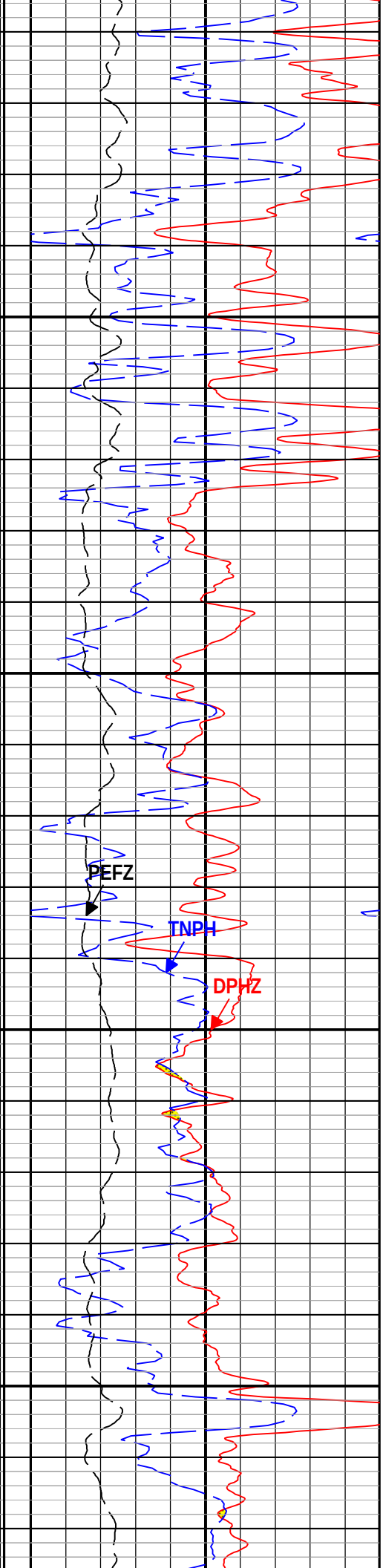
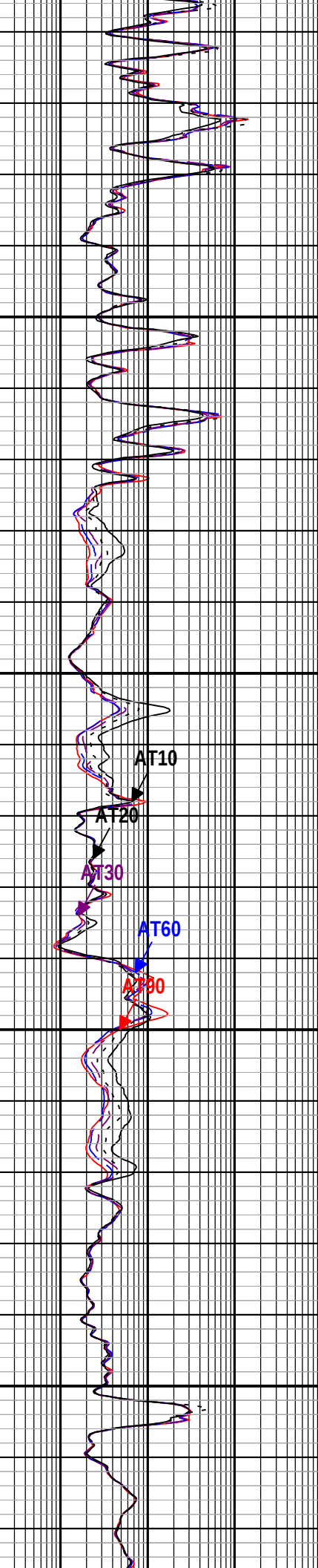
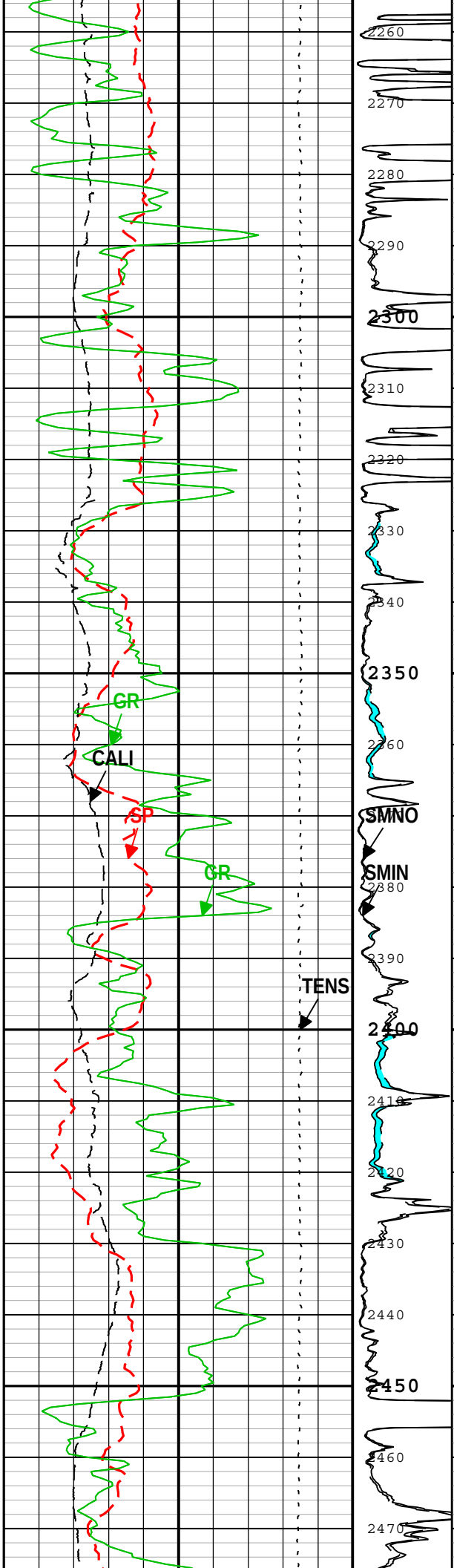


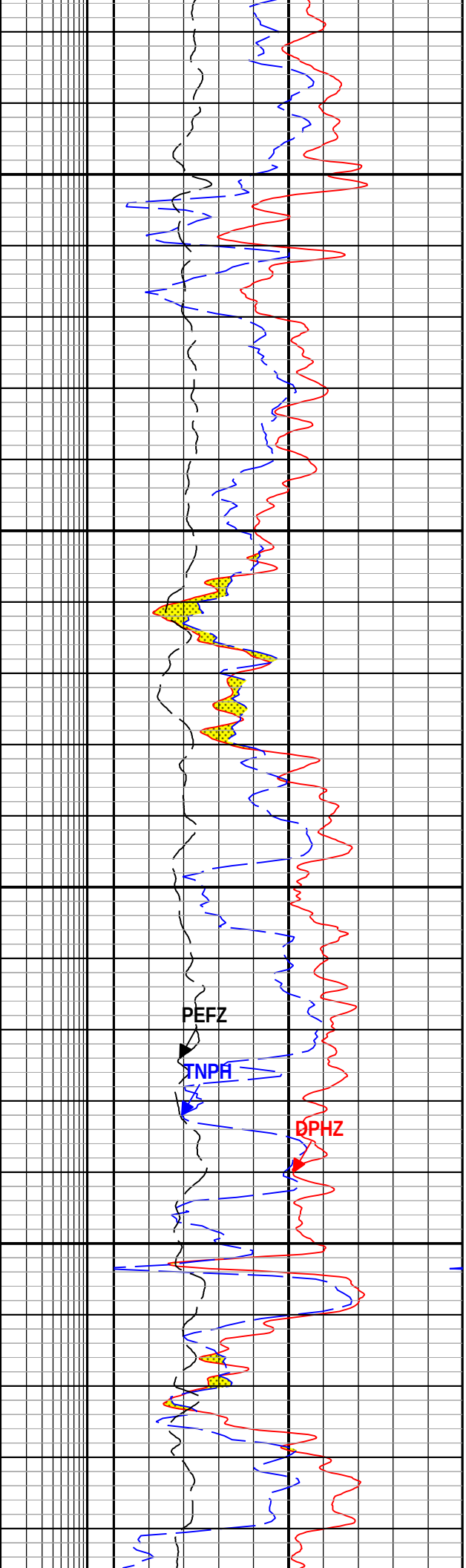
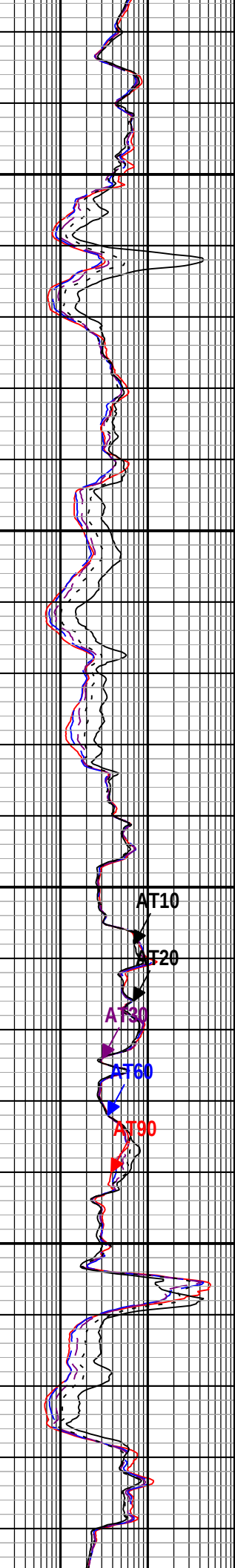
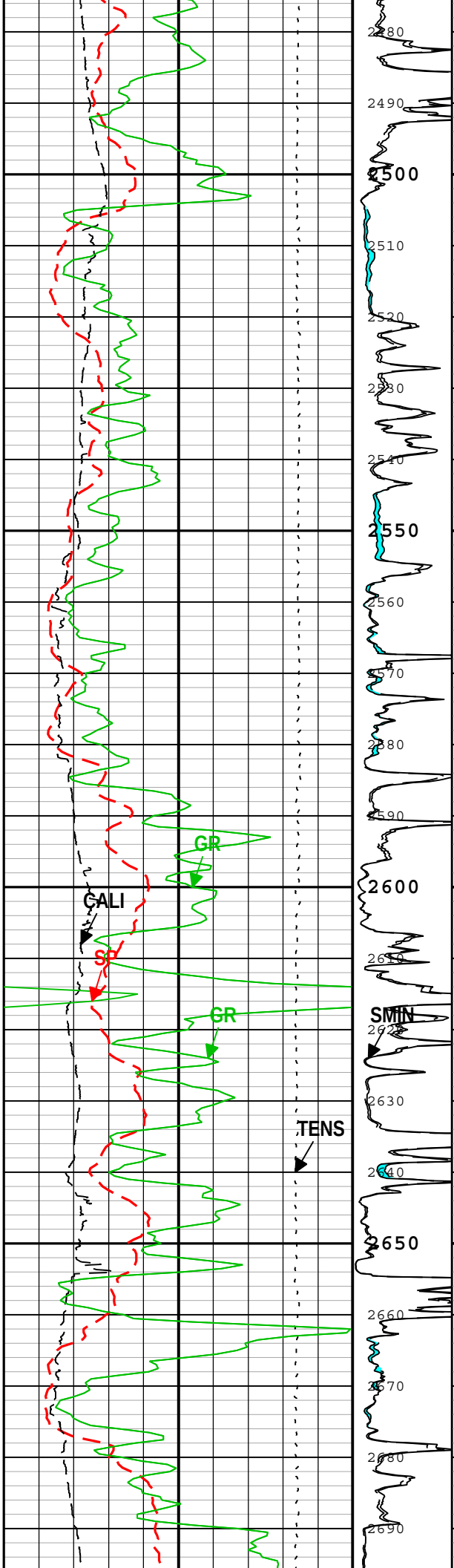


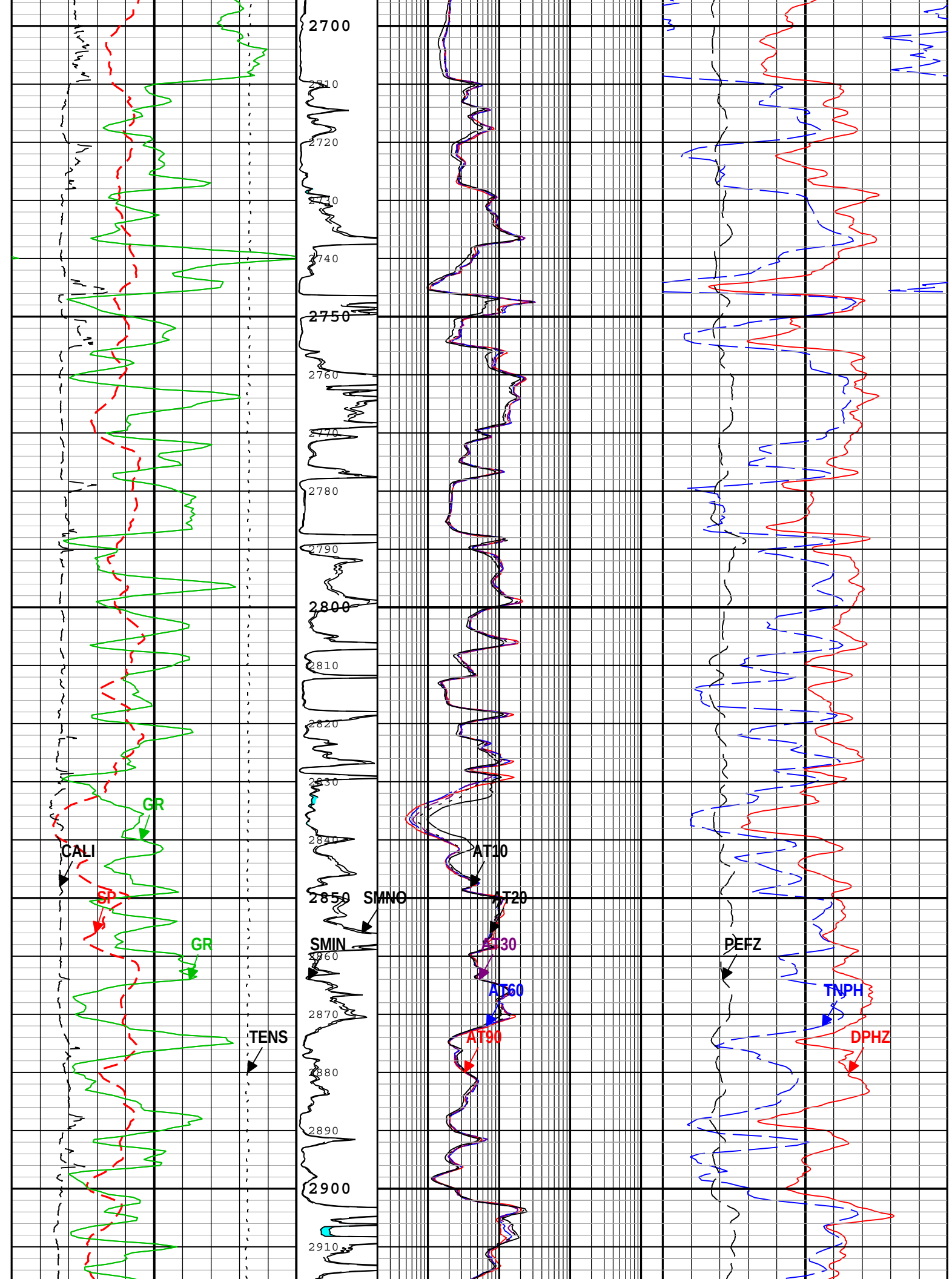


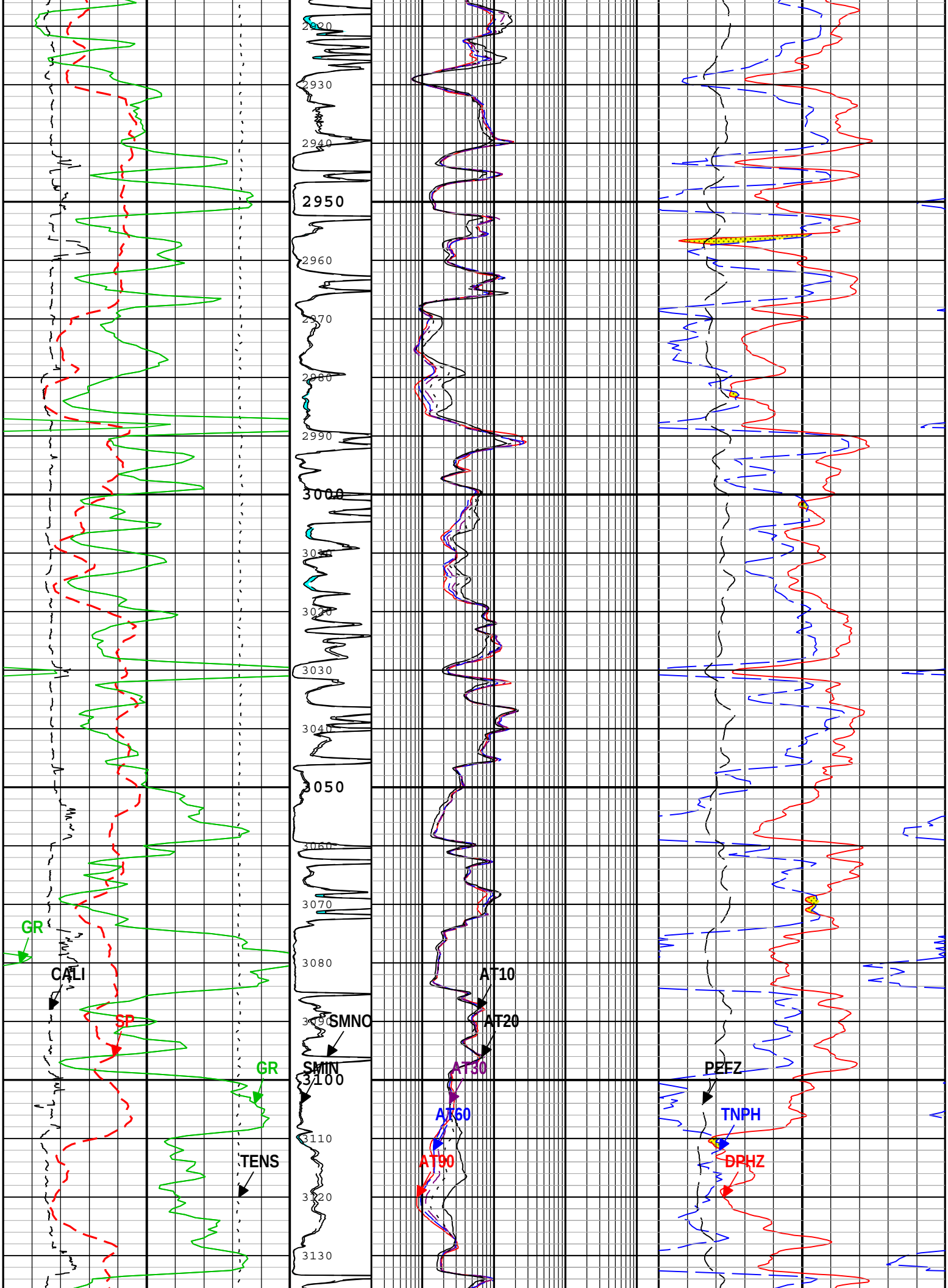


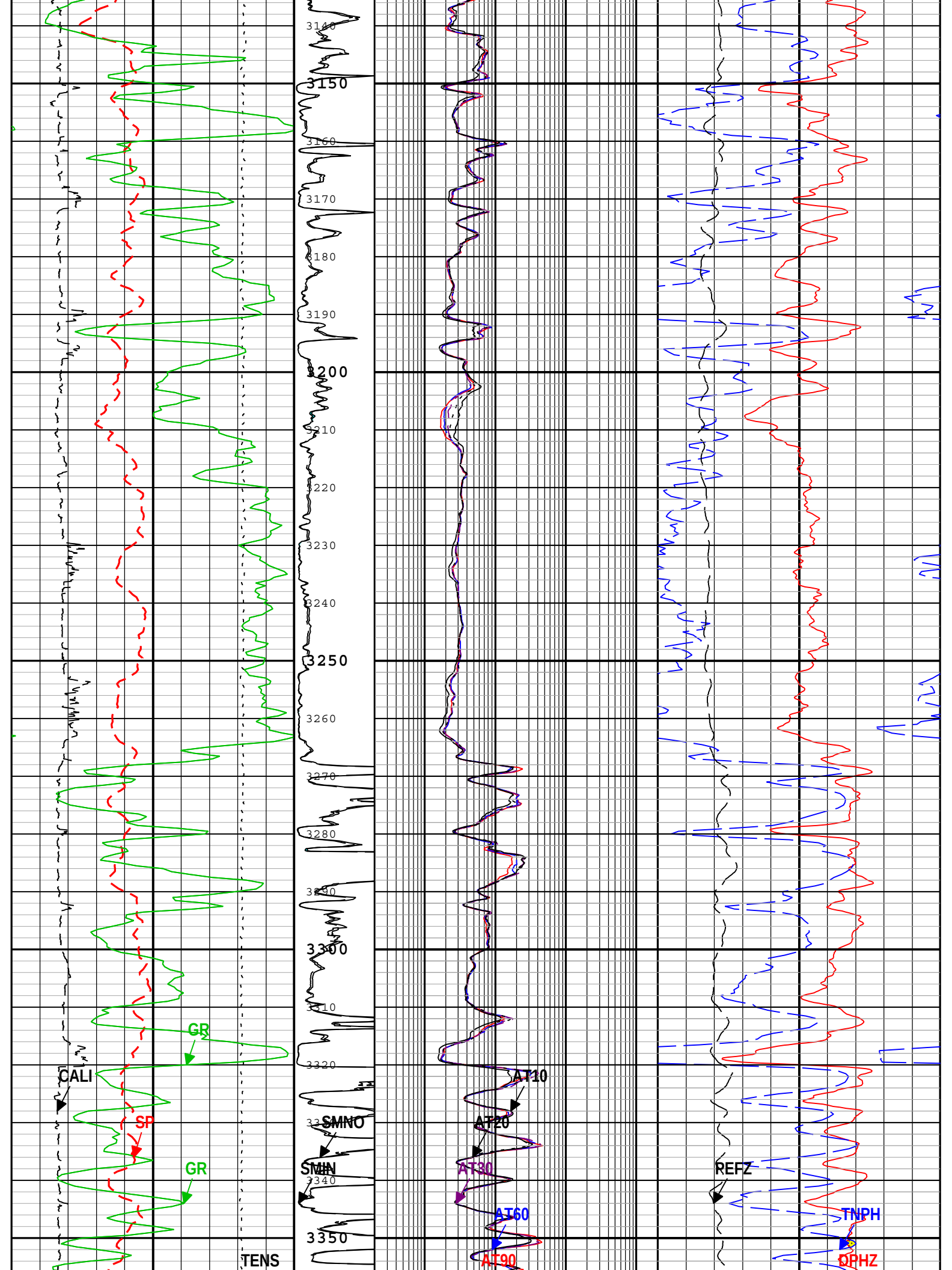


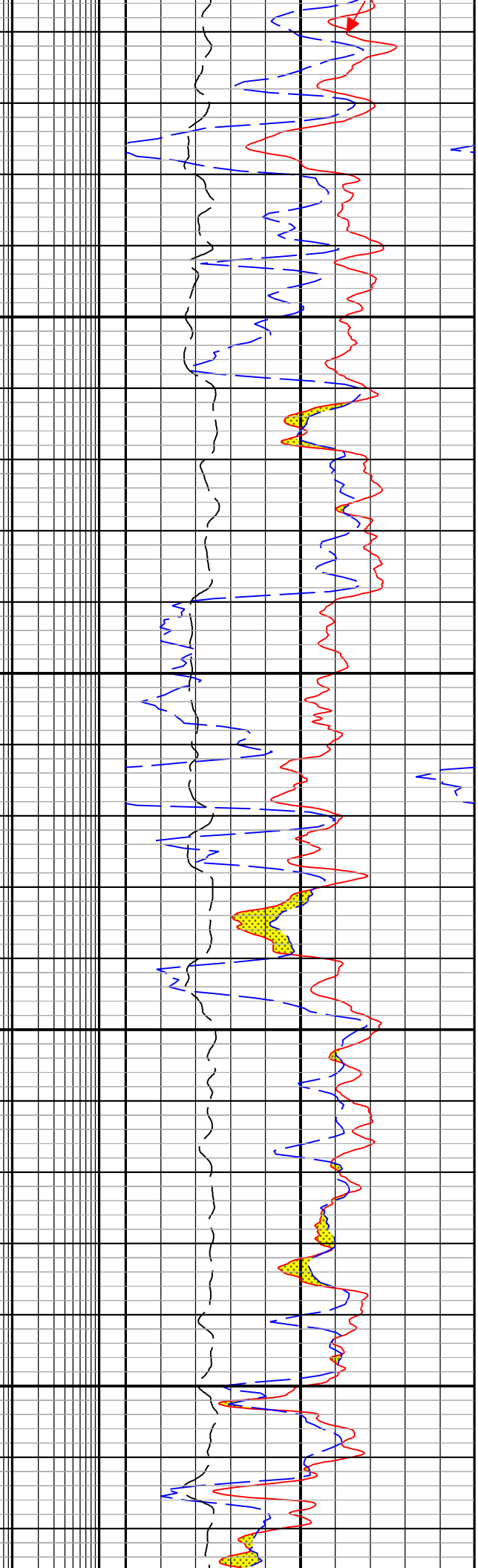
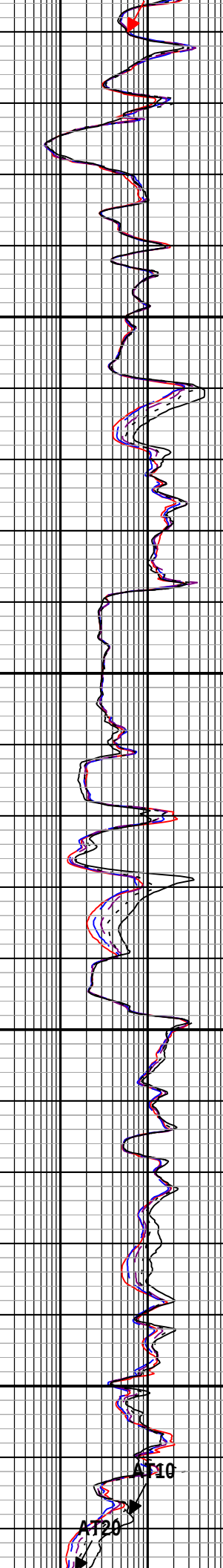
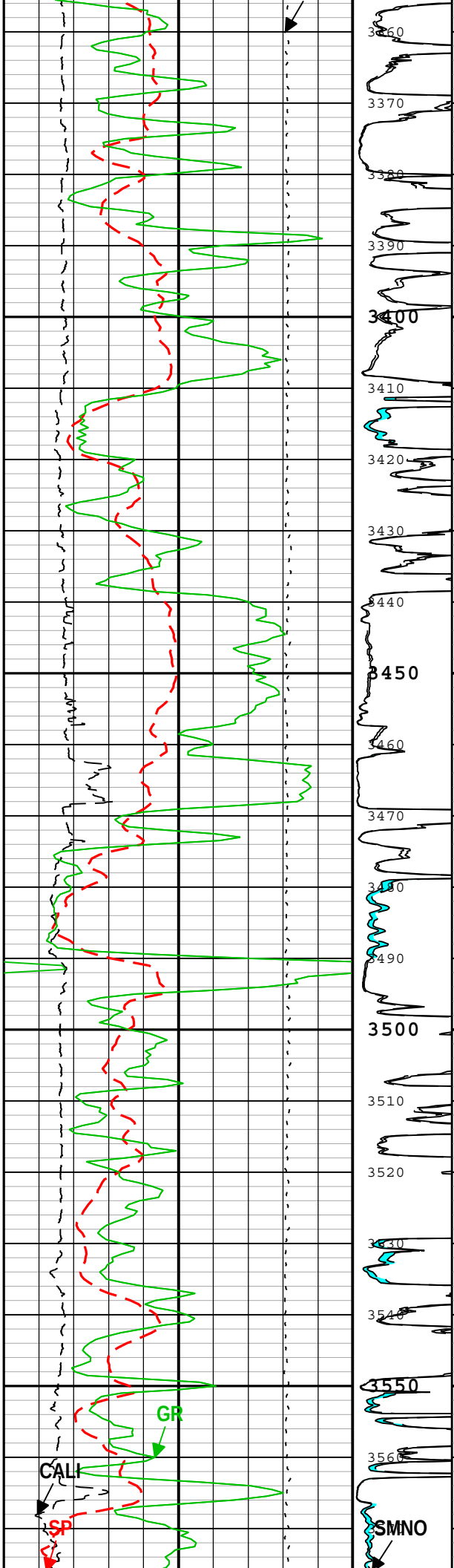


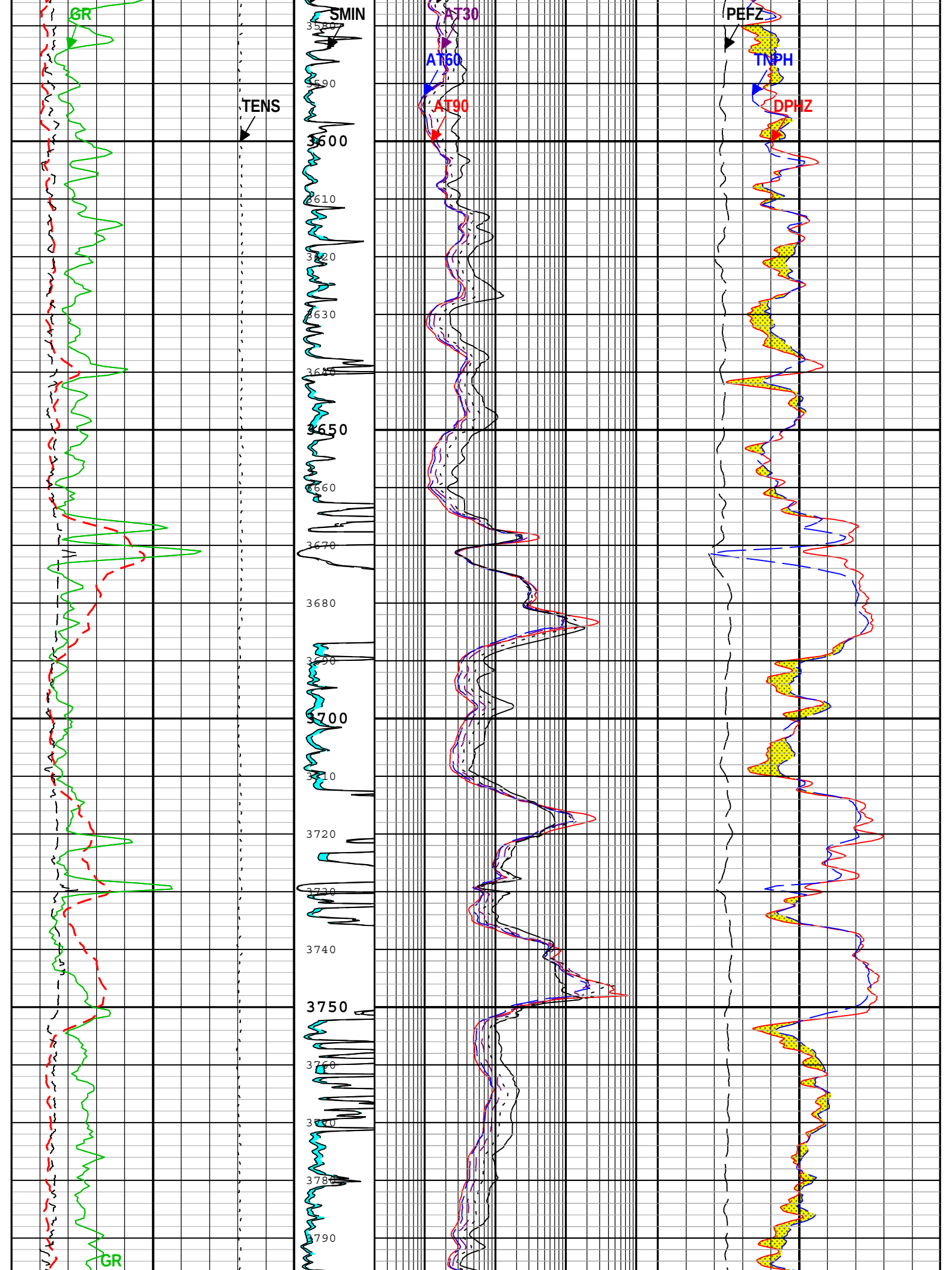


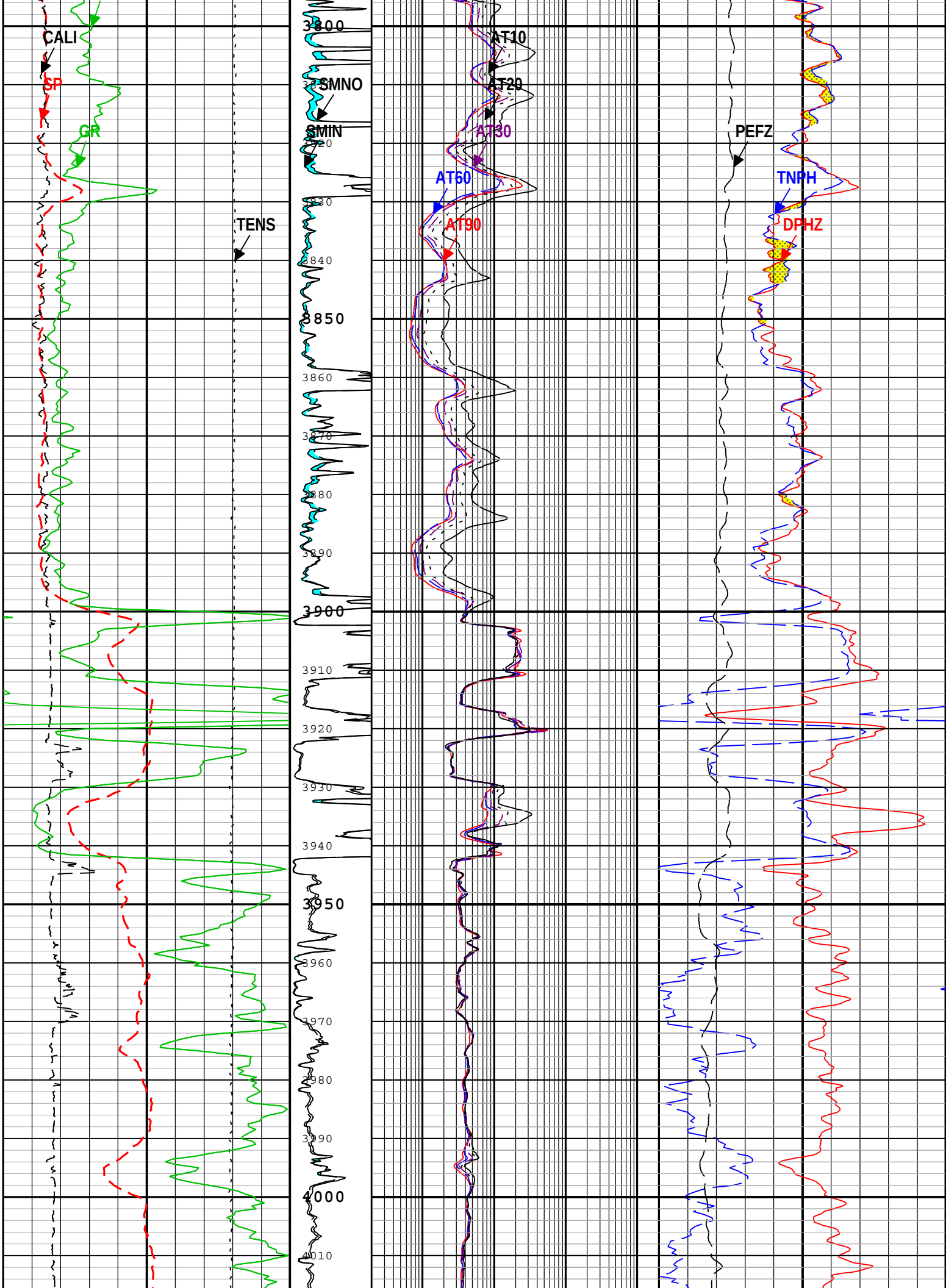


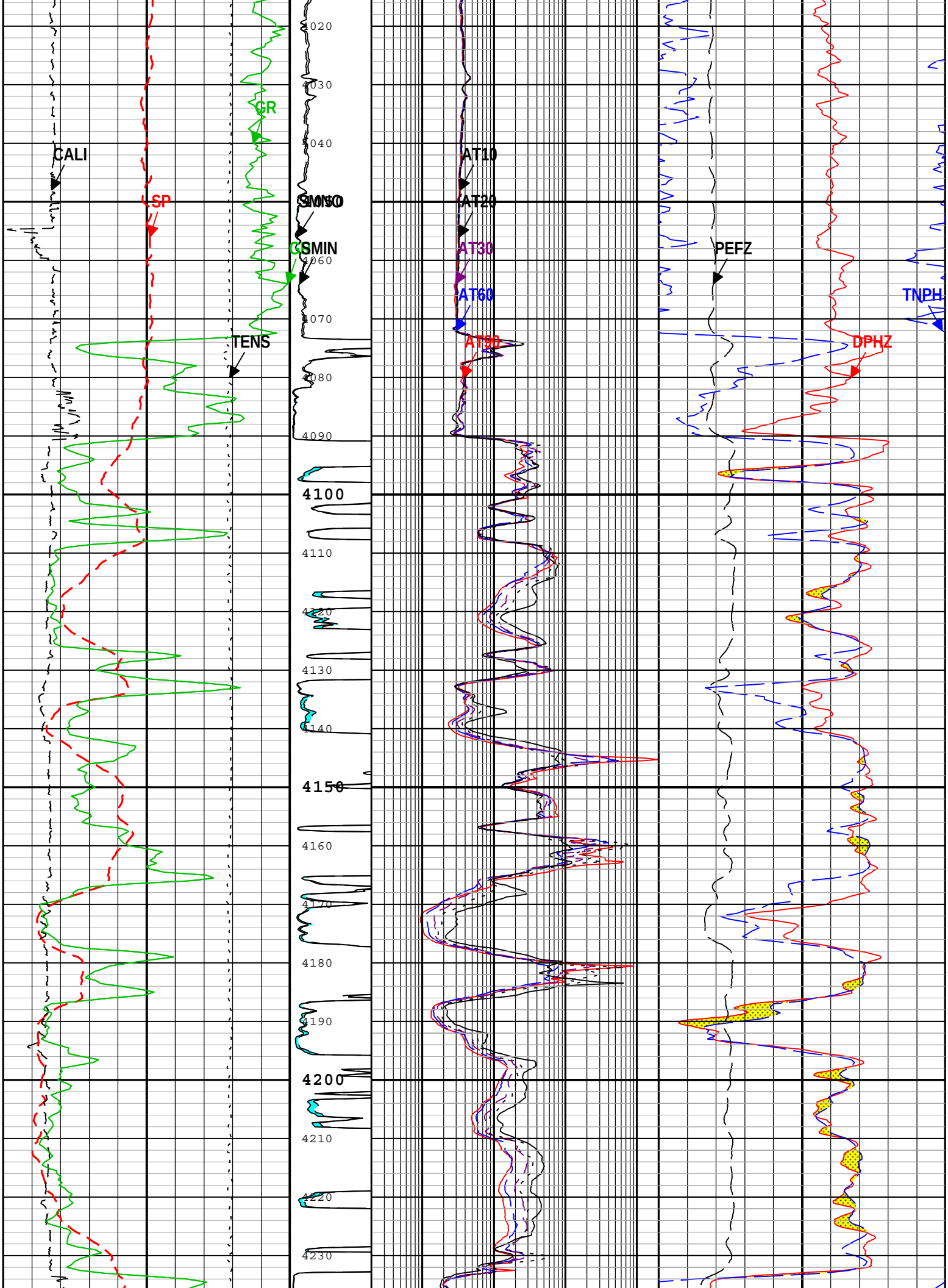


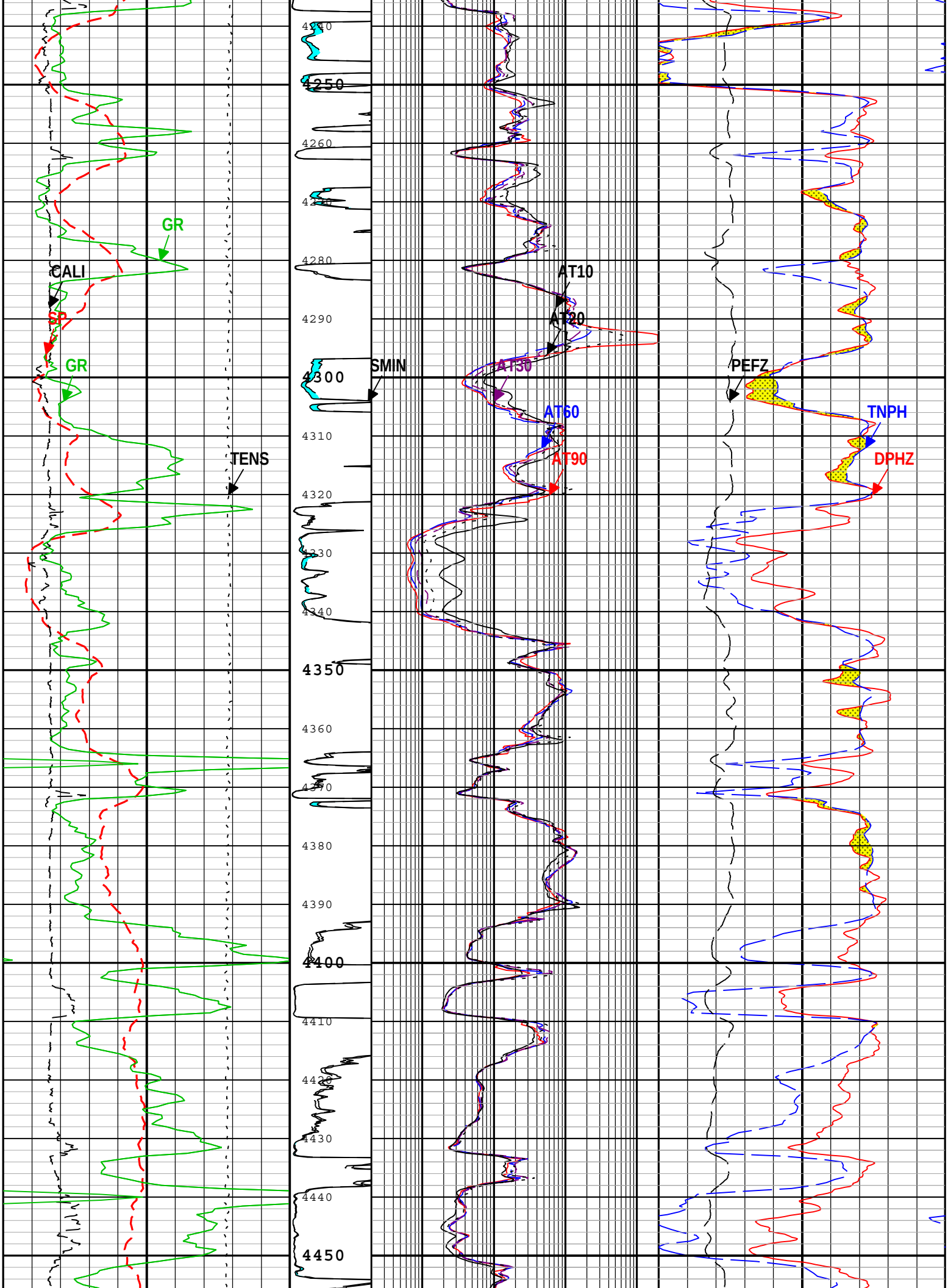


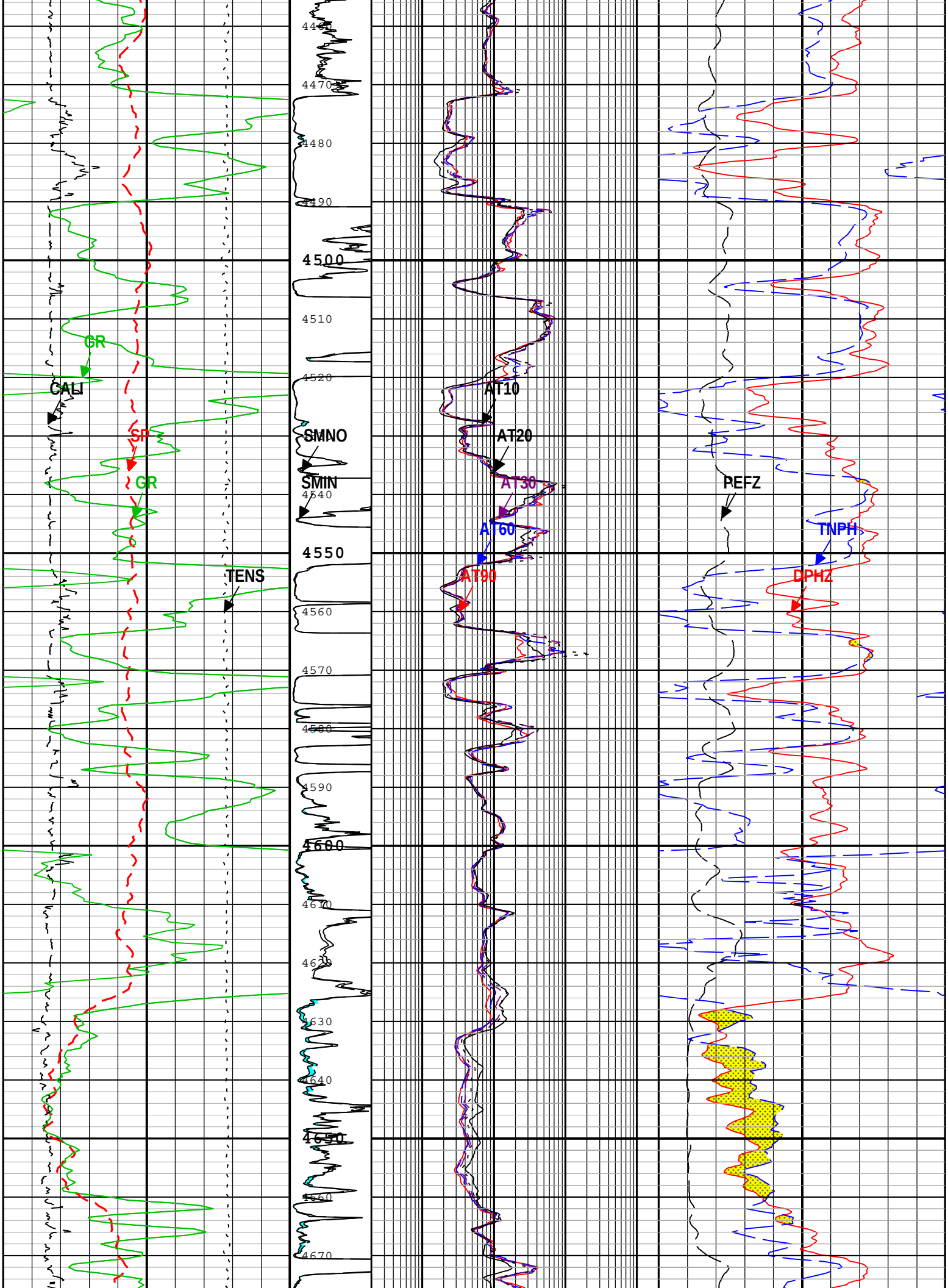


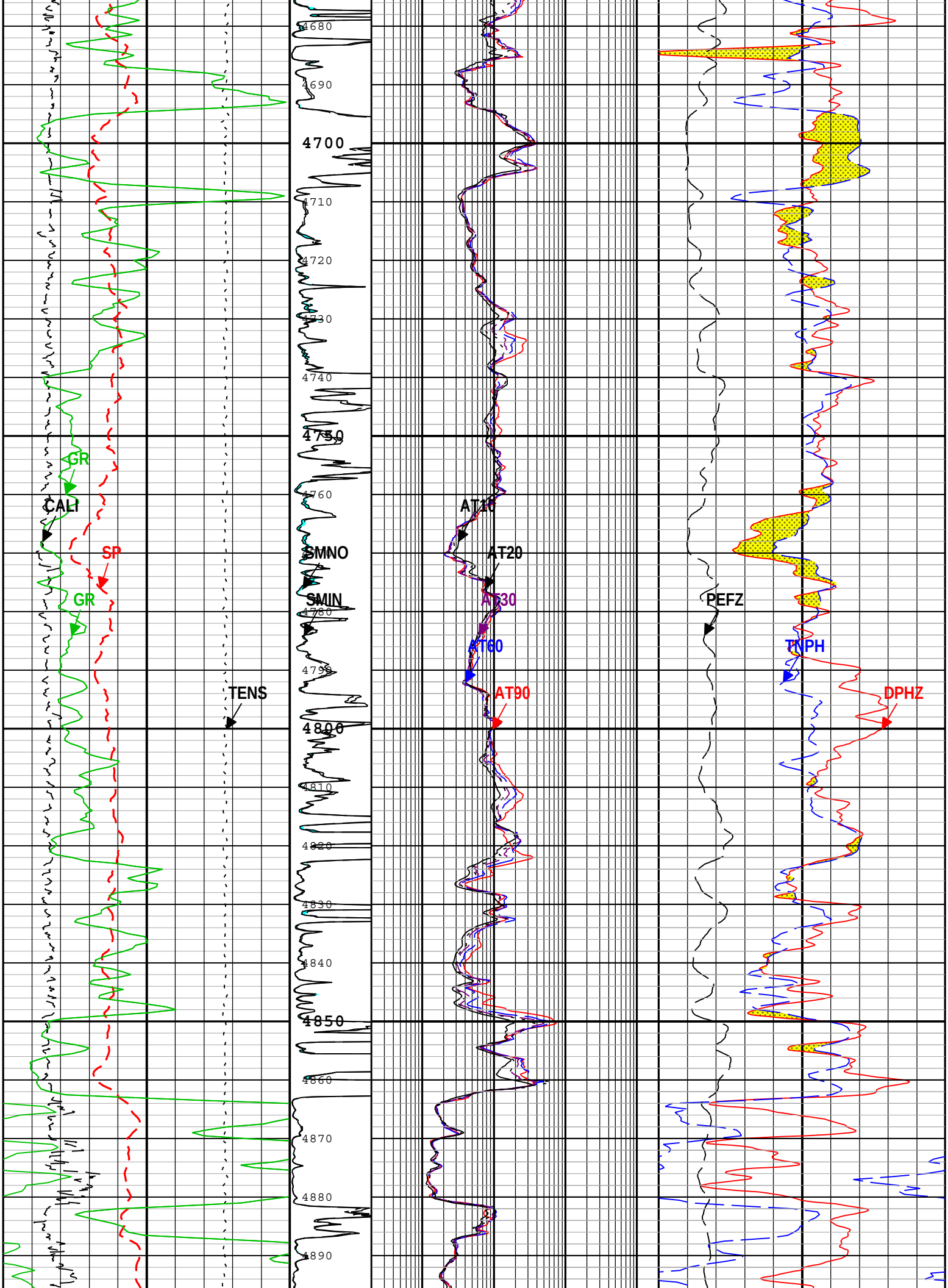


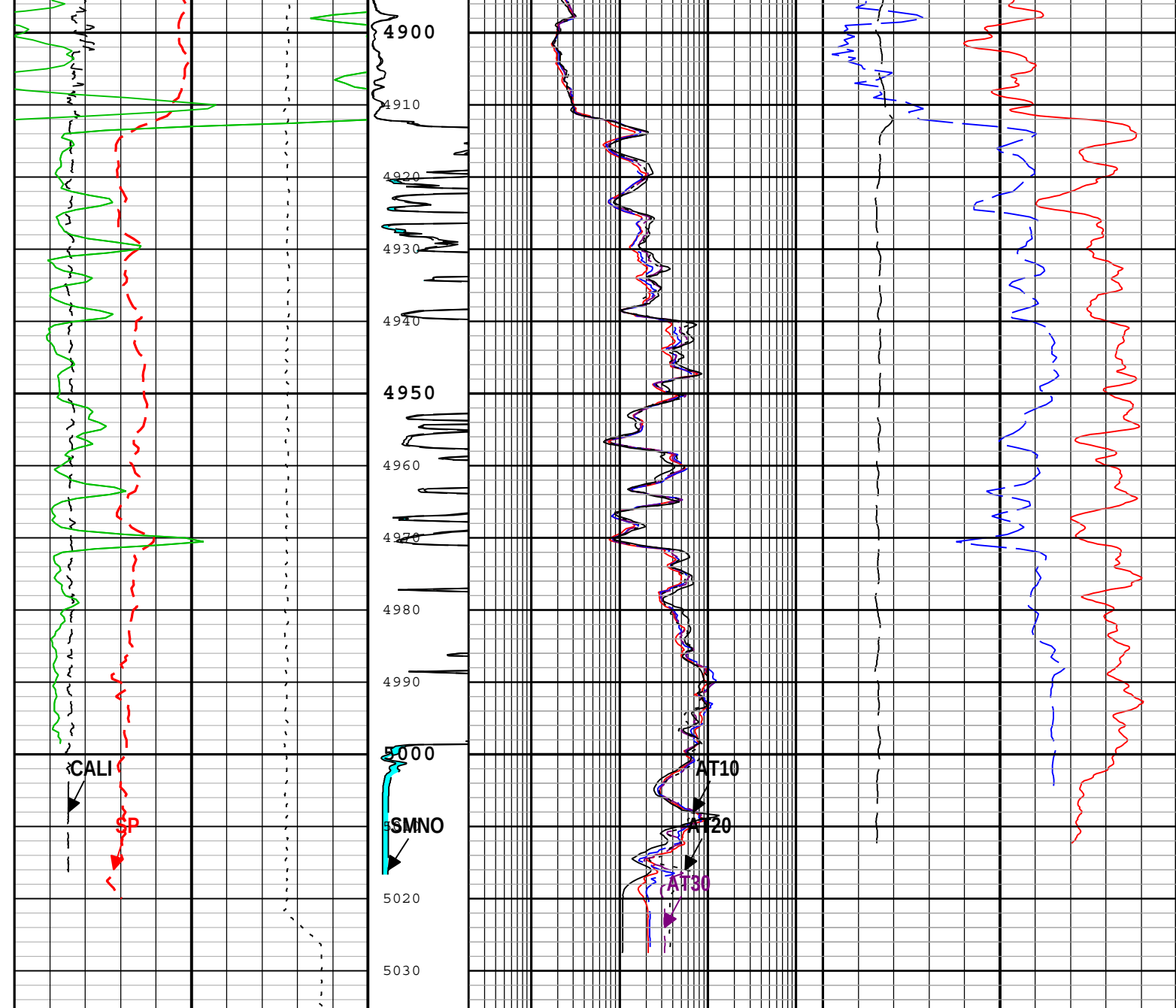












Triple Combo Main Pass 5" = 100'

Gamma Ray Backup			Crossover		
Cable Tension (TENS)			Standard Resolution Density Porosity (DPHZ) HDRS-H		
10000	lbf	0	0.2	ohm.m	2000
Gamma Ray (GR) HGNS-H			Array Induction Two Foot Resistivity A60 (AT60) AIT-M		
0	gAPI	150	0.2	ohm.m	2000
Spontaneous Potential (SP) AIT-M			Array Induction Two Foot Resistivity A30 (AT30) AIT-M		
-160	mV	40	0.2	ohm.m	2000
Caliper (CALI) HDRS-H			Array Induction Two Foot Resistivity A20 (AT20) AIT-M		
6	in	16	0.2	ohm.m	2000
Gamma Ray (GR) HGNS-H			Array Induction Two Foot Resistivity A10 (AT10) AIT-M		
0	gAPI	150	0.2	ohm.m	2000
Possible Perm			Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H		
Synthetic Micro-Inverse Resistivity (SMIN) HDRS-H			0		20
Synthetic Micro-Normal Resistivity (SMNO) HDRS-H					
0	ohm.m	20			

Channel Processing Parameters				
ONE: Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ACDE	Array Induction Casing Detection Enable	AIT-M	No	
ASTA	Array Induction Tool Standoff	AIT-M	1.625	in
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	118	degF
BS	Bit Size	WLSESSION	7.875	in
BSAL	Borehole Salinity	Borehole	0	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	608	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh WBM	
DHC	Density Hole Correction	HDRS-H	Bit Size	
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	0	ppm
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HSCO	Hole Size Correction Option	HGNS-H	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	75	degF
NPRM	HRDD Nuclear Processing Mode	HDRS-H	Standard Resolution	
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.43	ohm.m
SOCO	Standoff Correction Option	HGNS-H	Yes	
SP_SHIFT	SP Shift	AIT-M	-80	mV
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft

Tool Control Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BRD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

Merge Composite

Triple Combo HiRes Pass 10" = 100'

Composite Summary

[illegible]

ONE	Log[1]:Down	Down	201.15 ft	5020.34 ft	30-Oct-2014 2:33:59 PM	30-Oct-2014 3:11:20 PM	ON	0.00 ft	No
ONE	Log[2]:Up	Up	3998.78 ft	5033.75 ft	30-Oct-2014 3:11:30 PM	30-Oct-2014 3:47:52 PM	ON	2.08 ft	No
ONE	Main[3]:Up	Up	202.45 ft	5035.51 ft	30-Oct-2014 3:59:51 PM	30-Oct-2014 5:21:39 PM	ON	3.24 ft	No

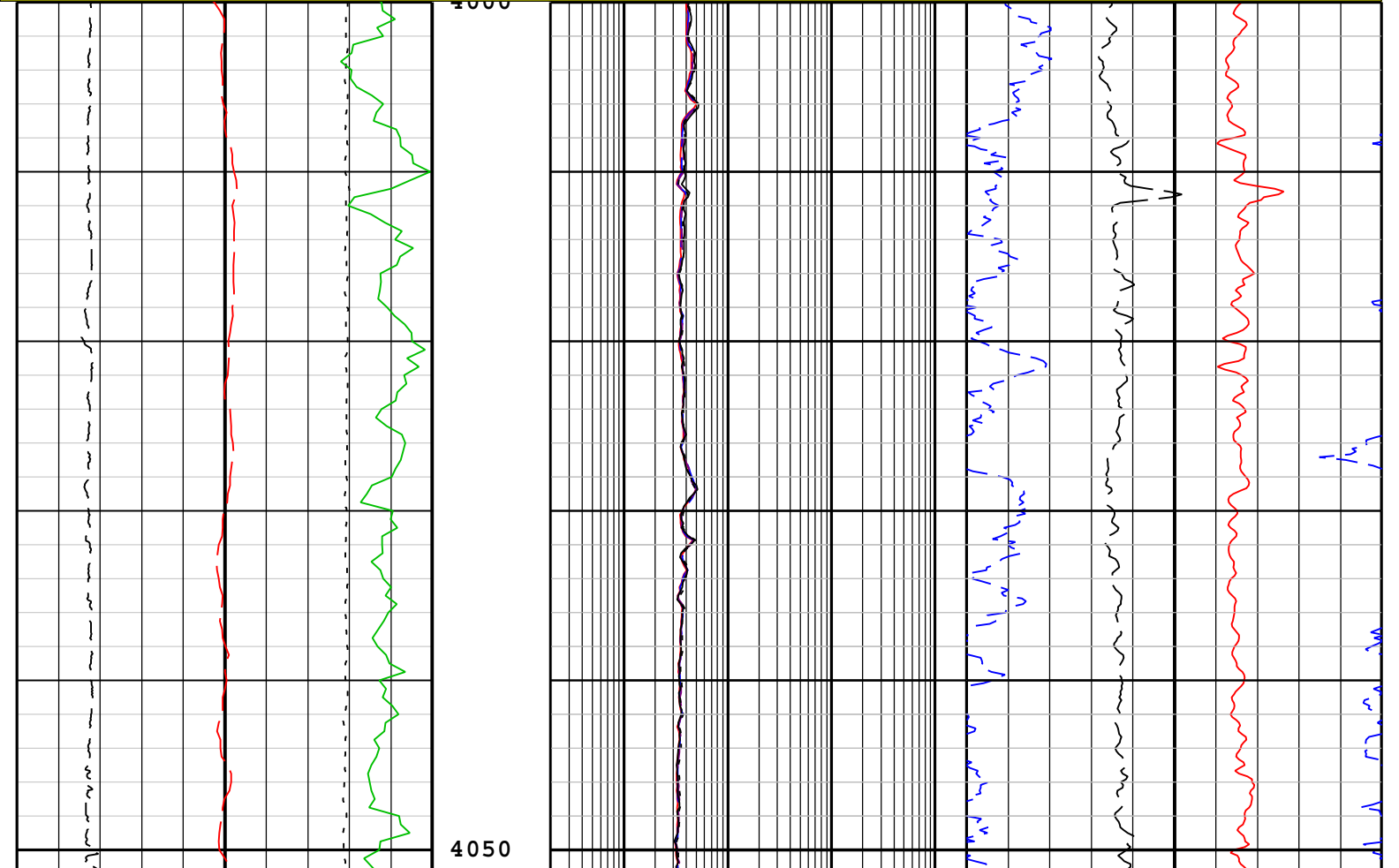
All depths are referenced to toolstring zero

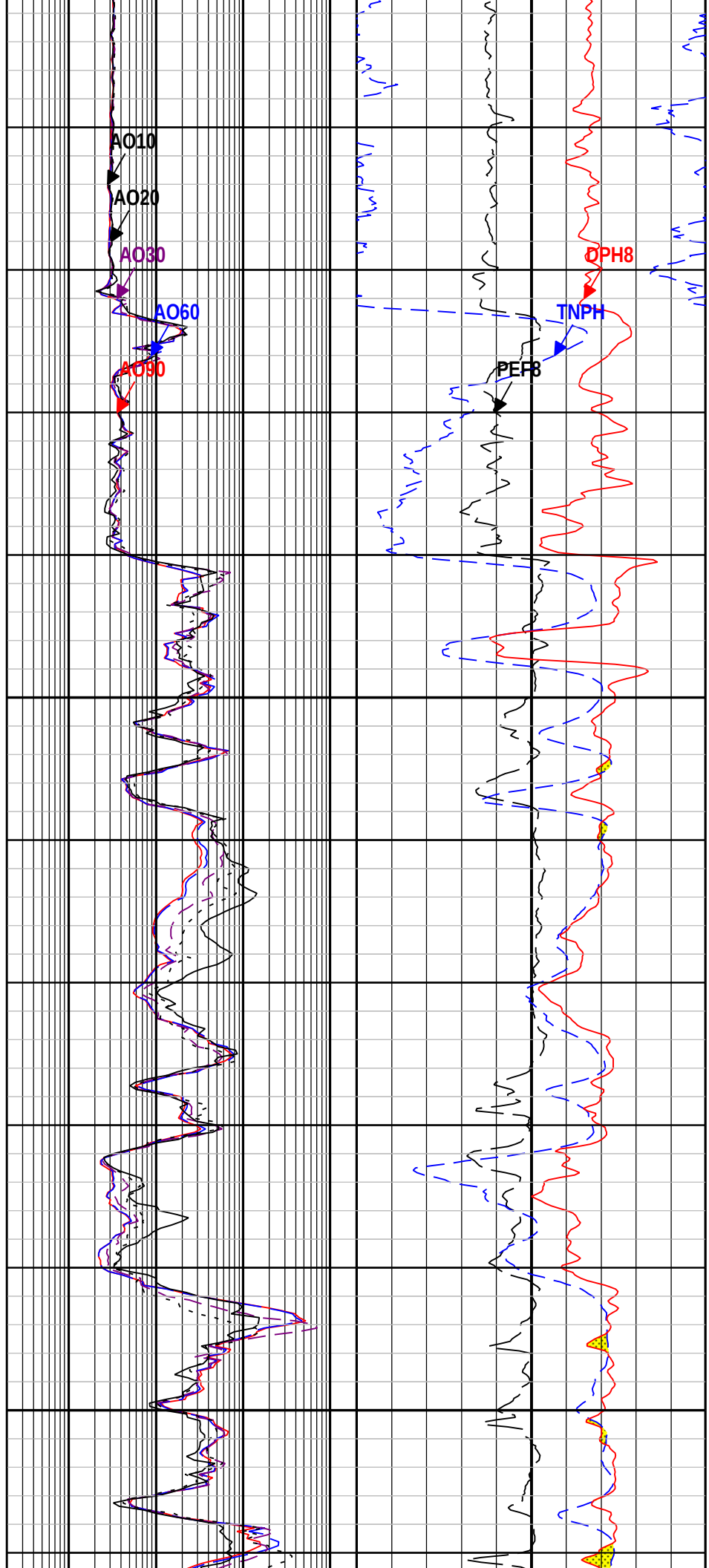
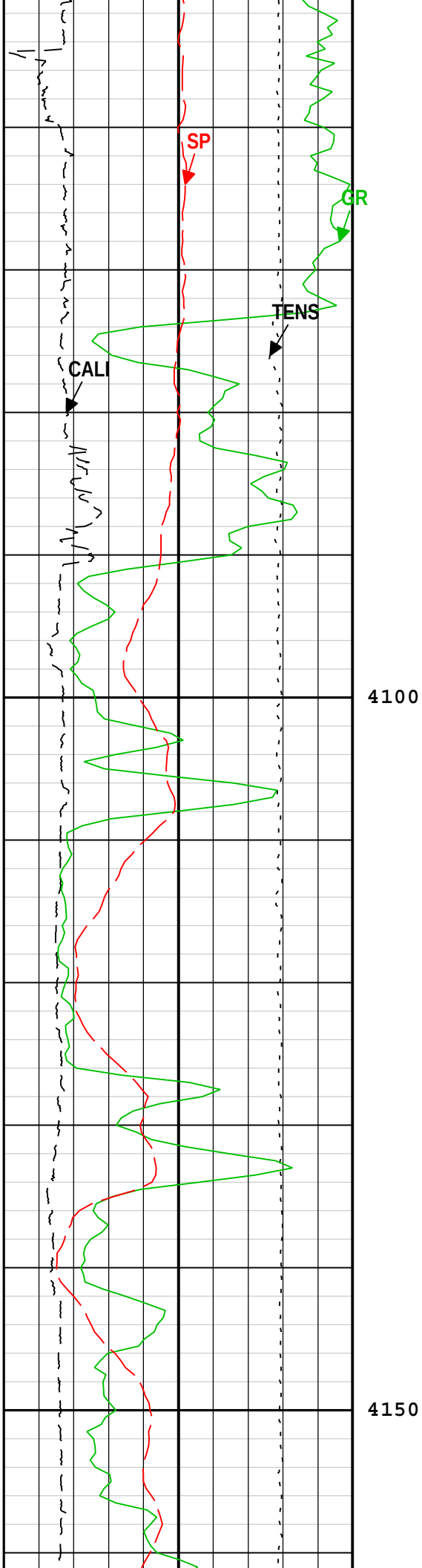
Log	Company:OMIMEX PETROLEUM INC.	Well:CLARK 6-21
	Merge Composite:S004	

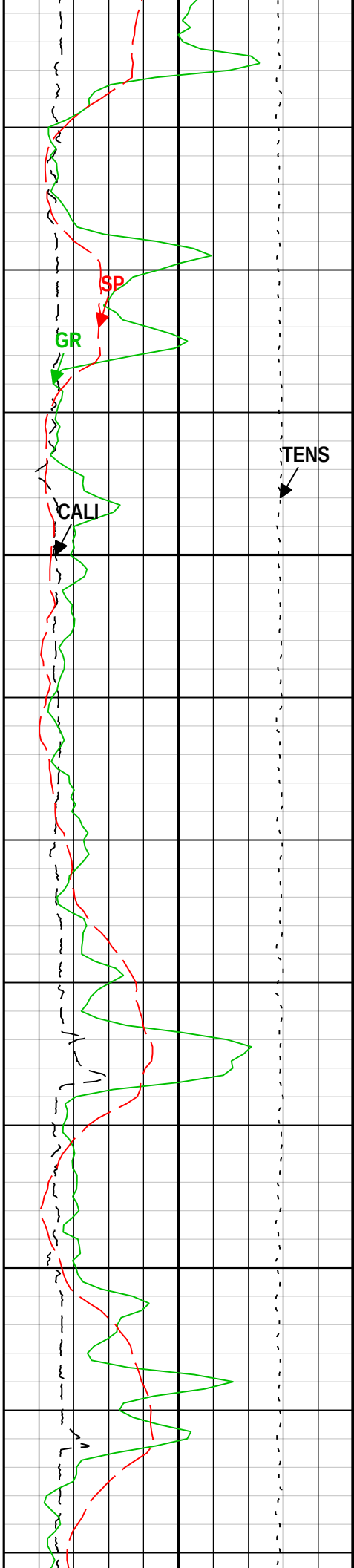
Description: HGNS standard resolution porosities for Platform Express Format: Log (TCOM HiRes 10in) Index Scale: 10 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 30-Oct-2014 17:49:09

Gamma Ray Backup Caliper (CALI) HDRS-H 6 in 16 Cable Tension (TENS) 10000 lbf 0 Gamma Ray (GR) HGNS-H 0 gAPI 150 Spontaneous Potential (SP) AIT-M -160 mV 40			Array Induction One Foot Resistivity A90 (AO90) AIT-M					
			0.2 ohm.m 2000					
			Array Induction One Foot Resistivity A60 (AO60) AIT-M			Crossover		
			0.2 ohm.m 2000					
			Array Induction One Foot Resistivity A30 (AO30) AIT-M			High Resolution Formation Photoelectric Factor (PEF8) HDRS-H		
			0.2 ohm.m 2000			0 10		
Possible Perm			Array Induction One Foot Resistivity A20 (AO20) AIT-M			Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) HGNS-H		
			0.2 ohm.m 2000			0.3 ft3/ft3 -0.1		
			Array Induction One Foot Resistivity A10 (AO10) AIT-M			High Resolution Density Porosity (DPH8) HDRS-H		
			0.2 ohm.m 2000			0.45 ft3/ft3 -0.15		

Triple Combo HiRes Pass 10" = 100'

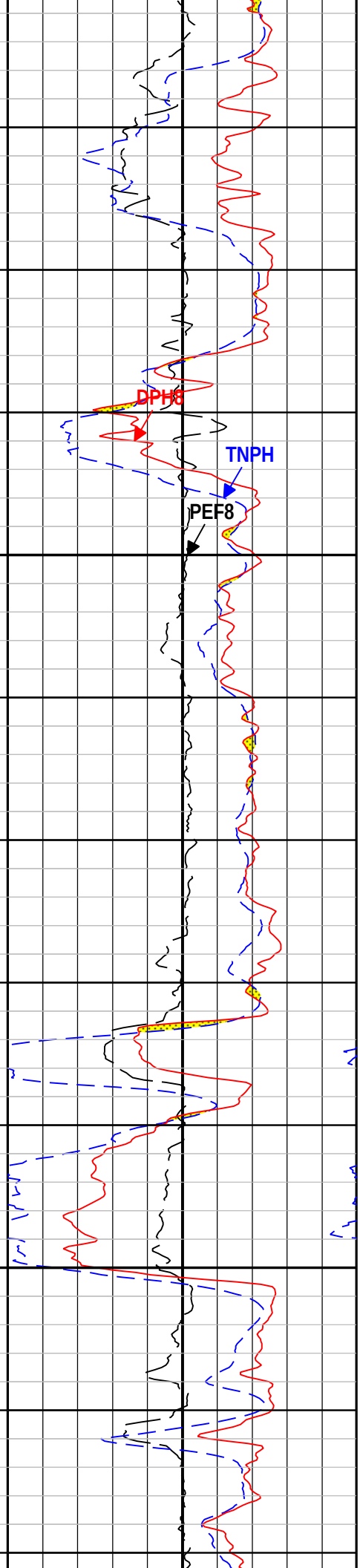
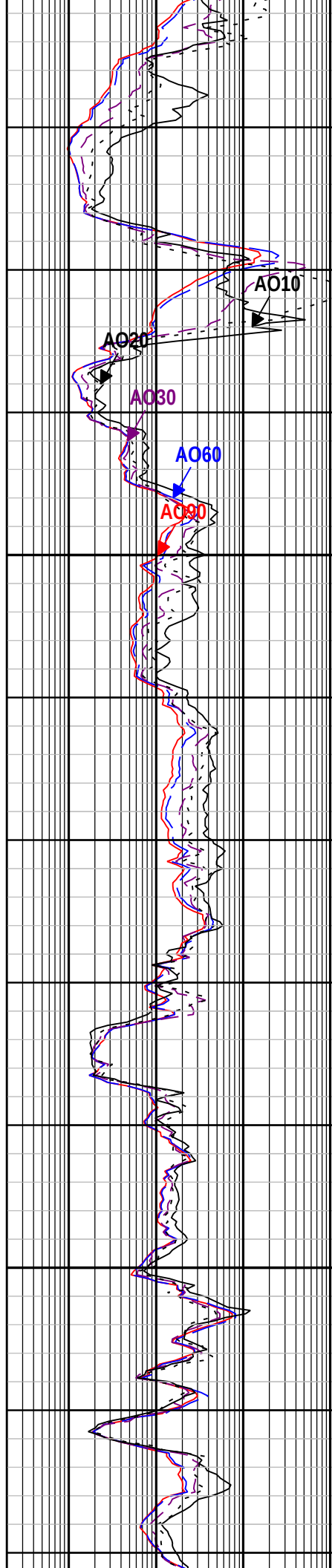


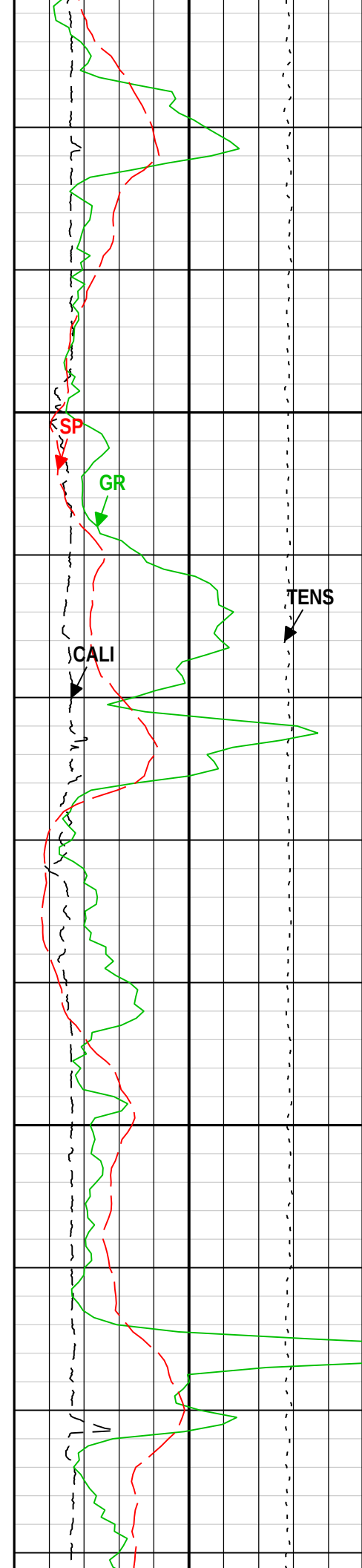




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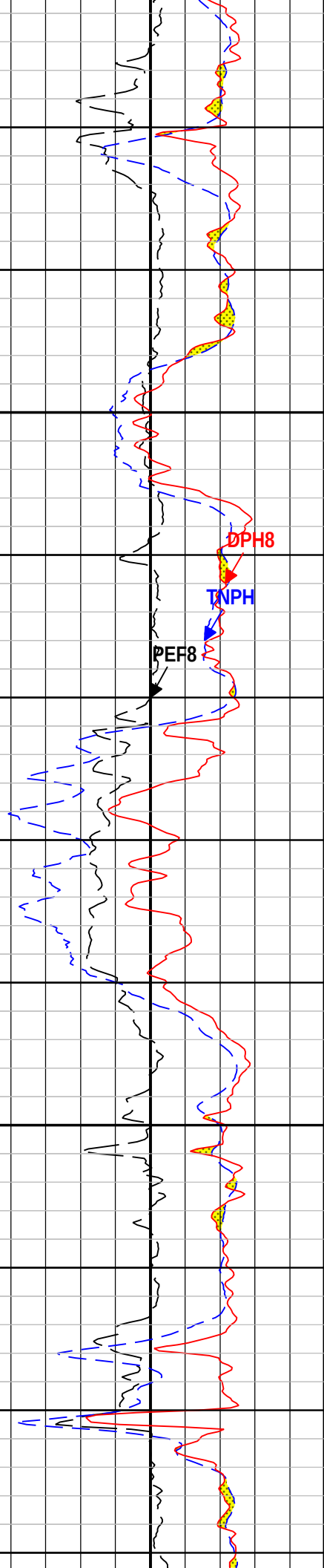
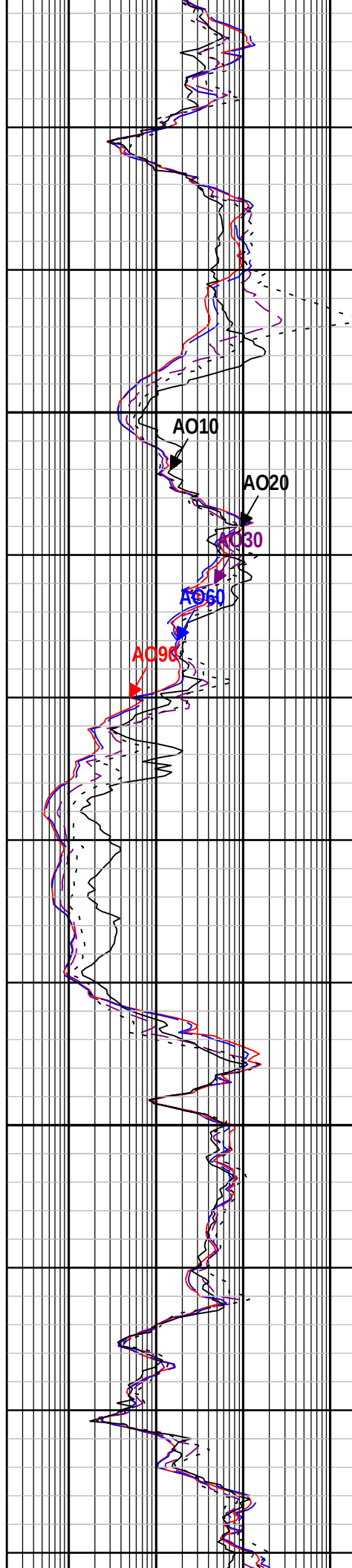
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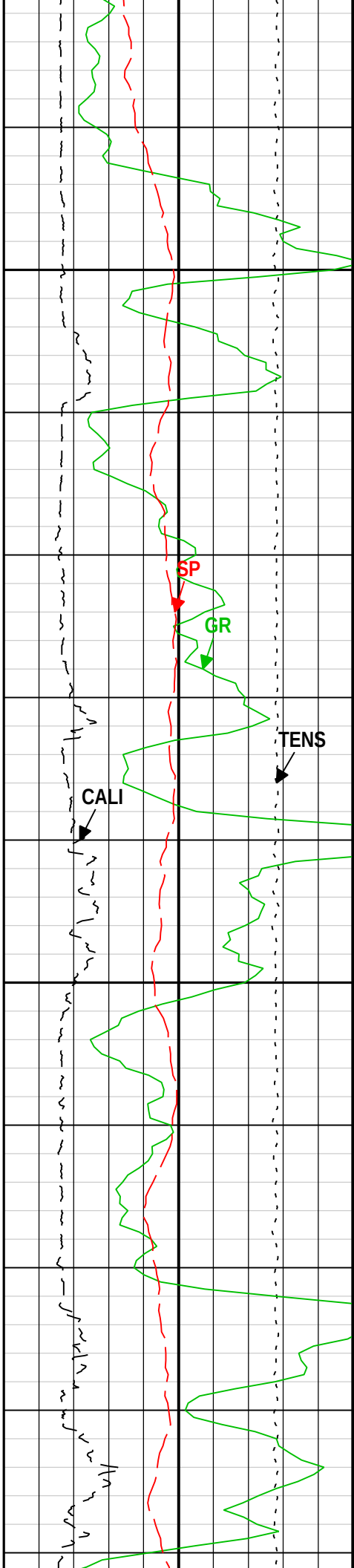




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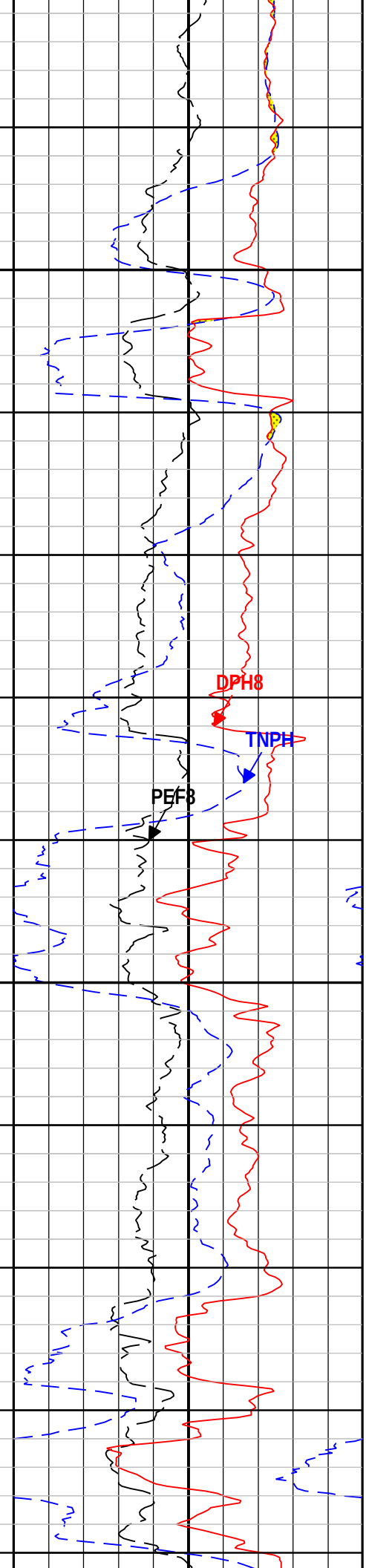
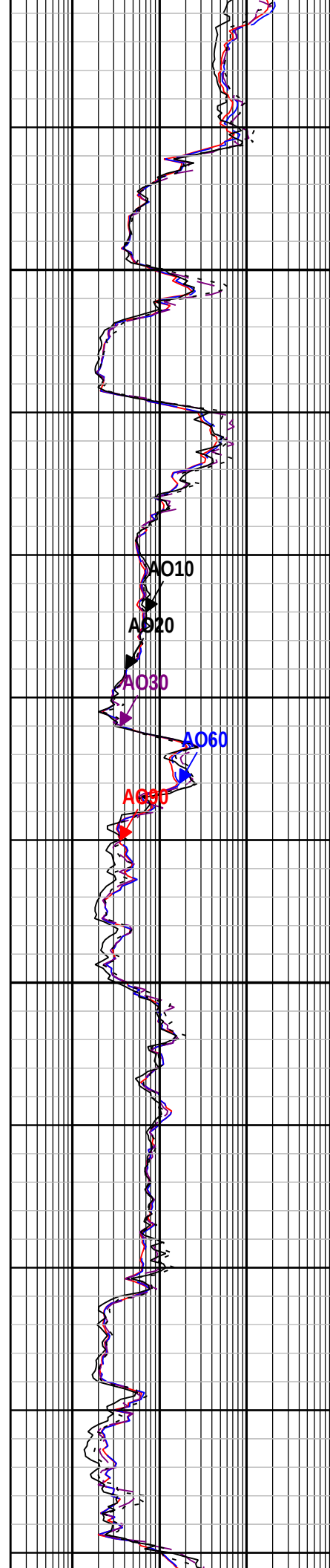
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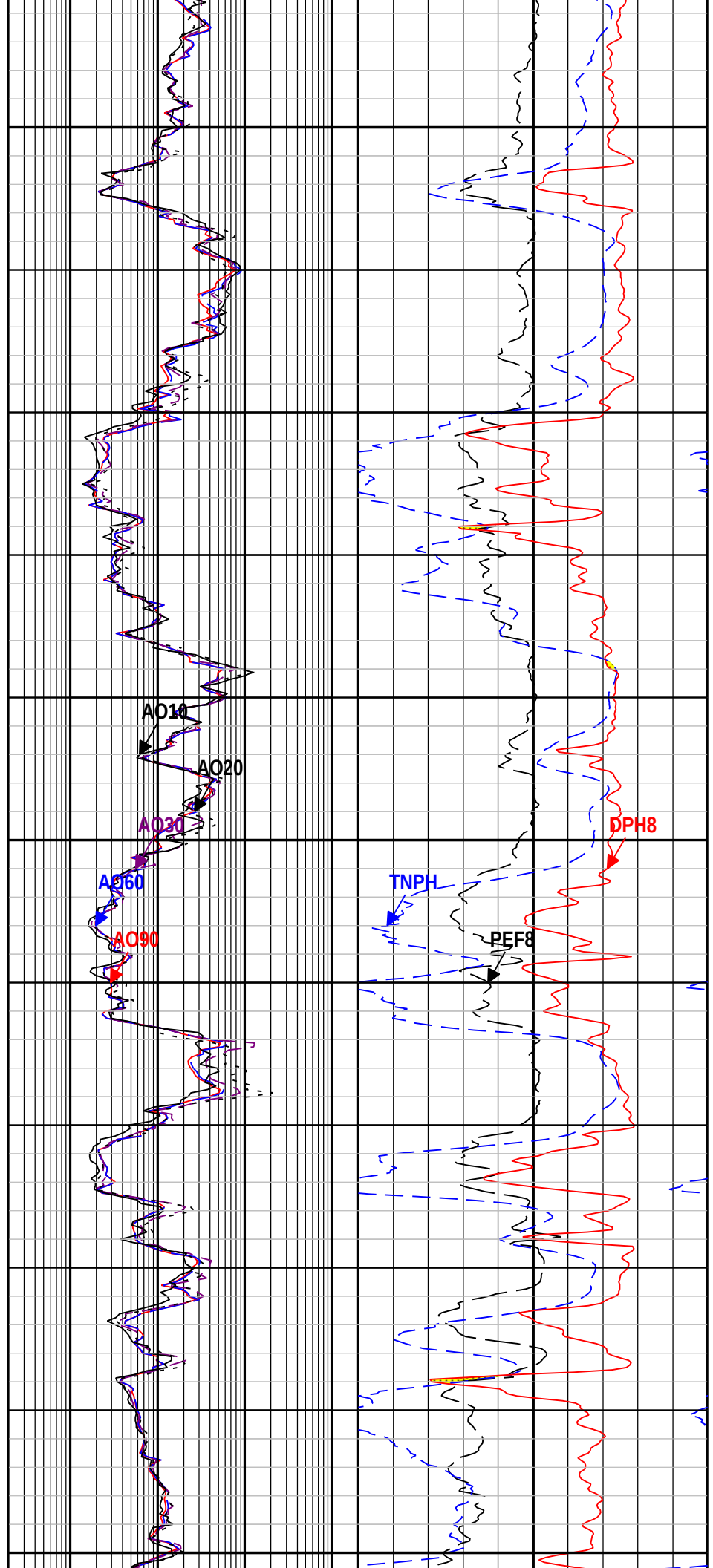
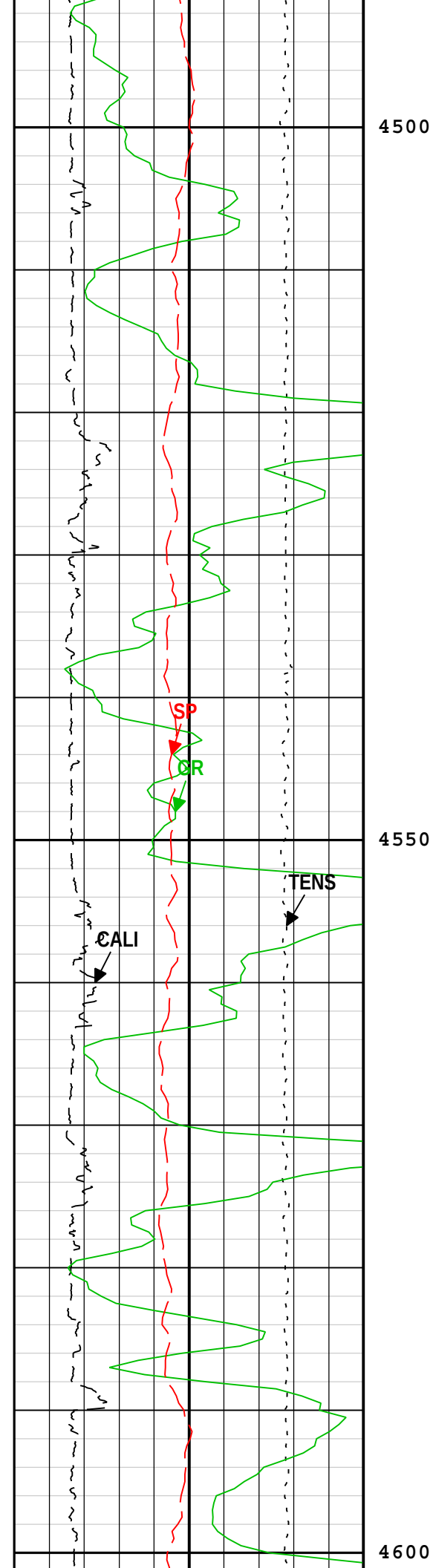


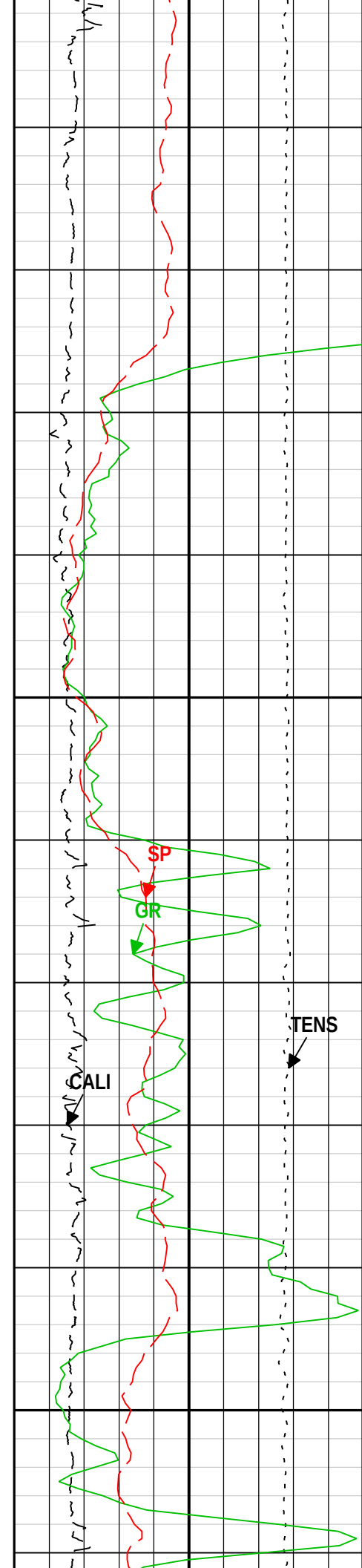


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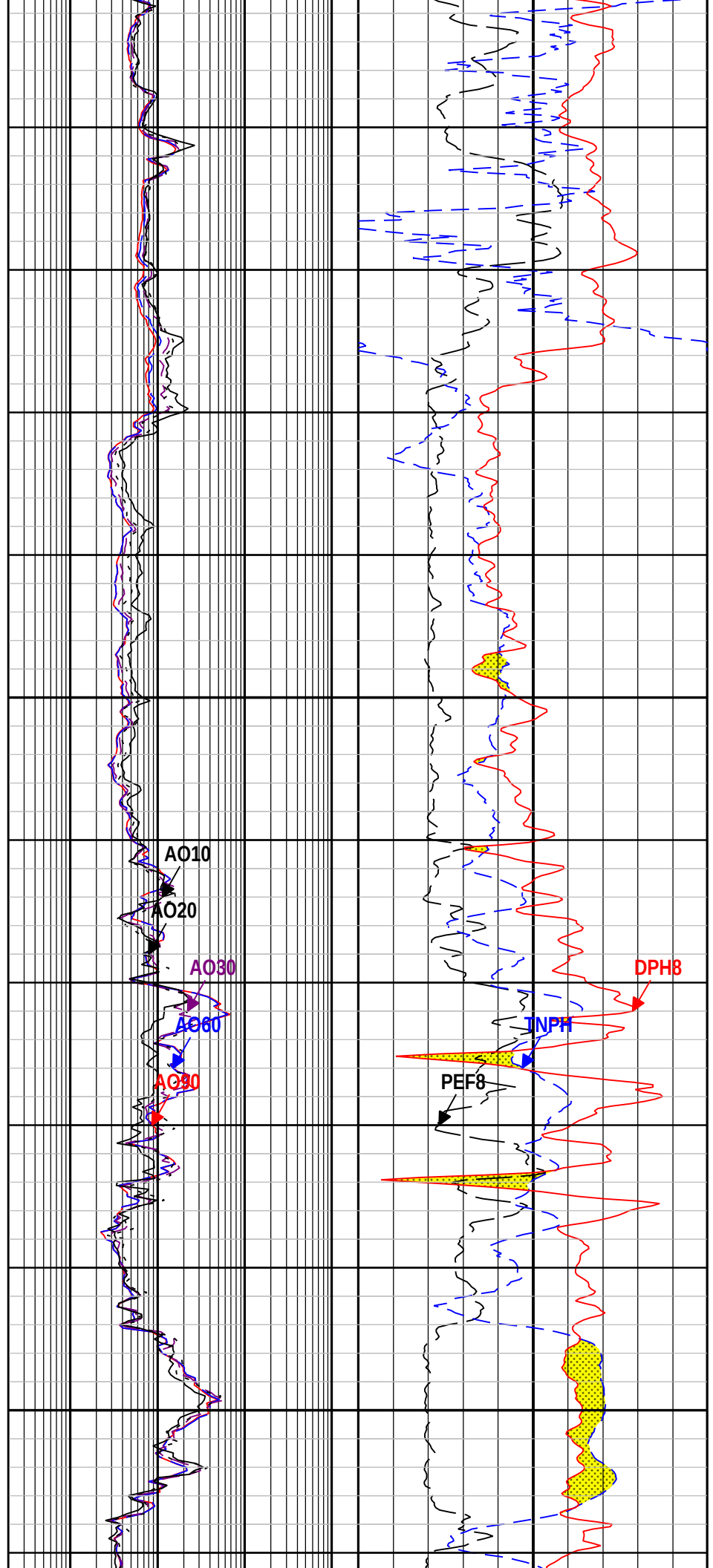


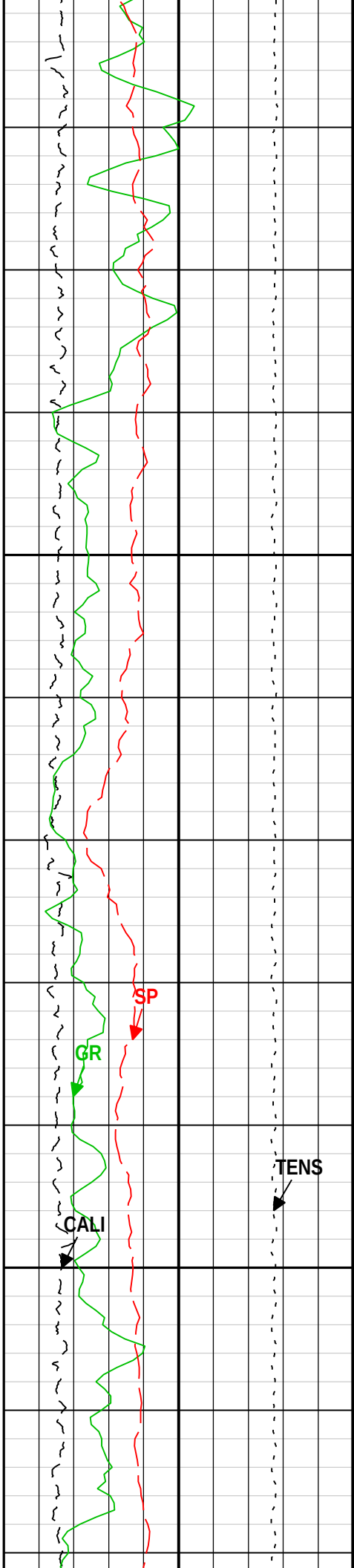




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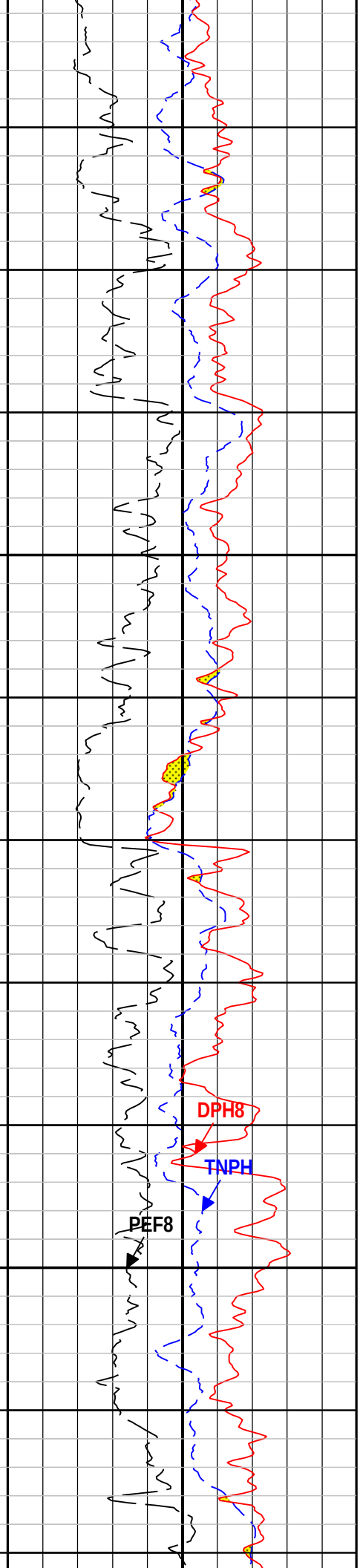
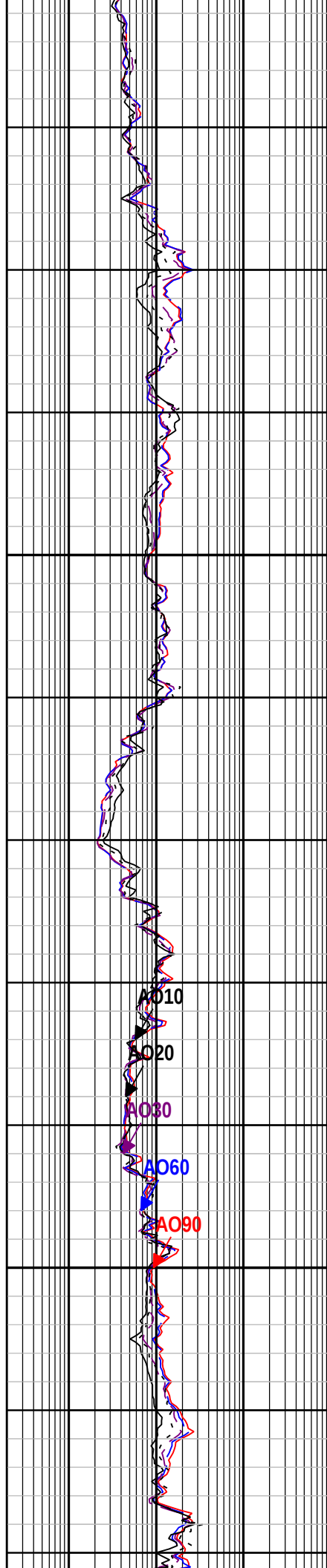
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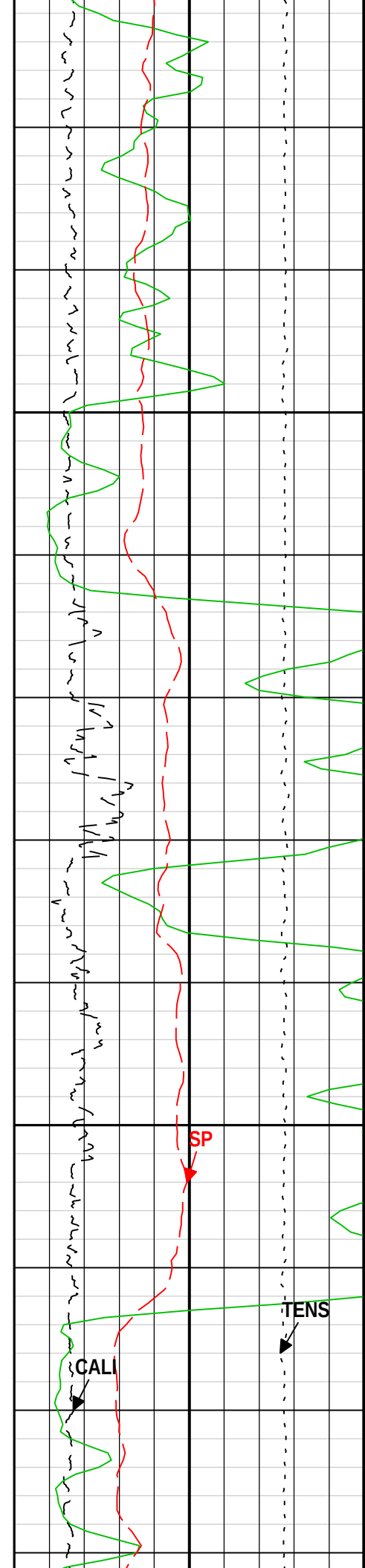




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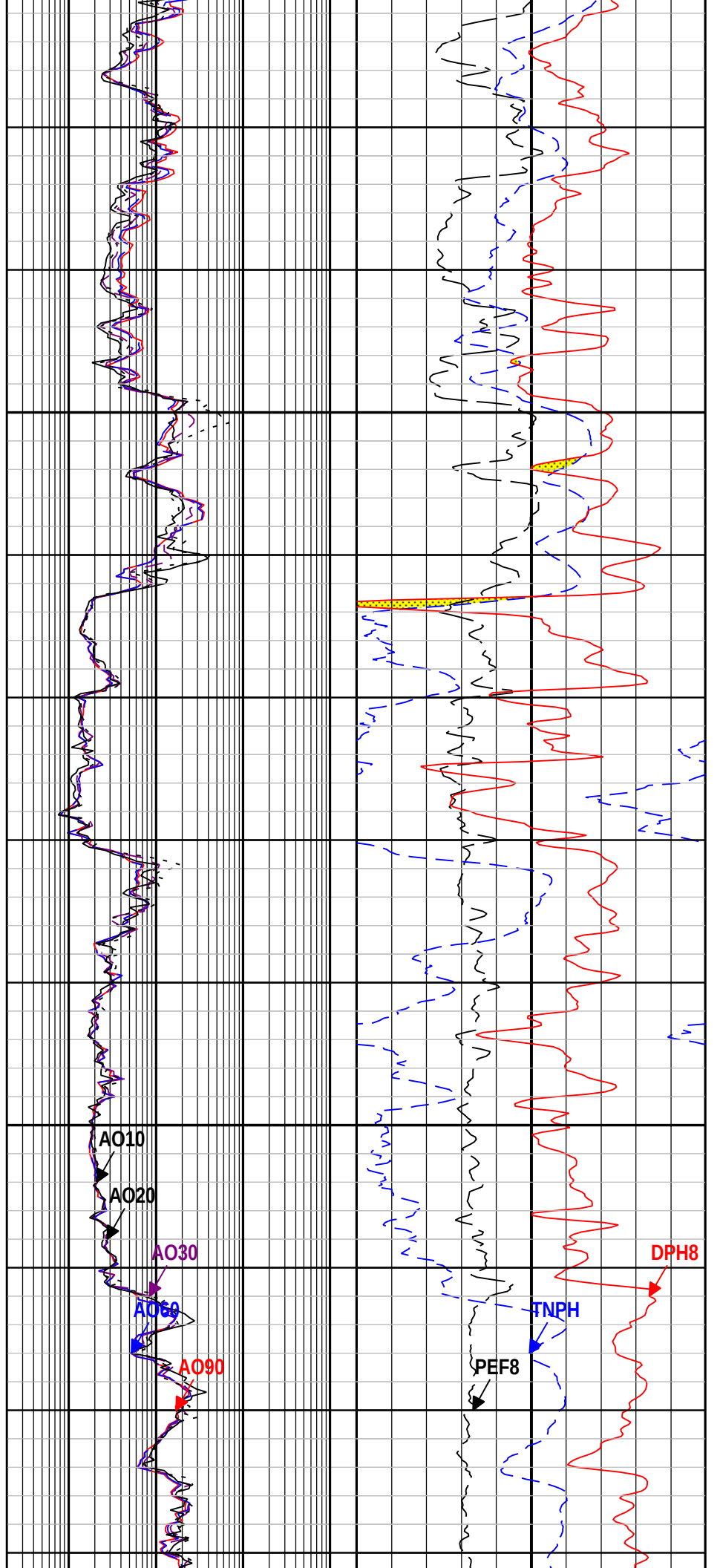
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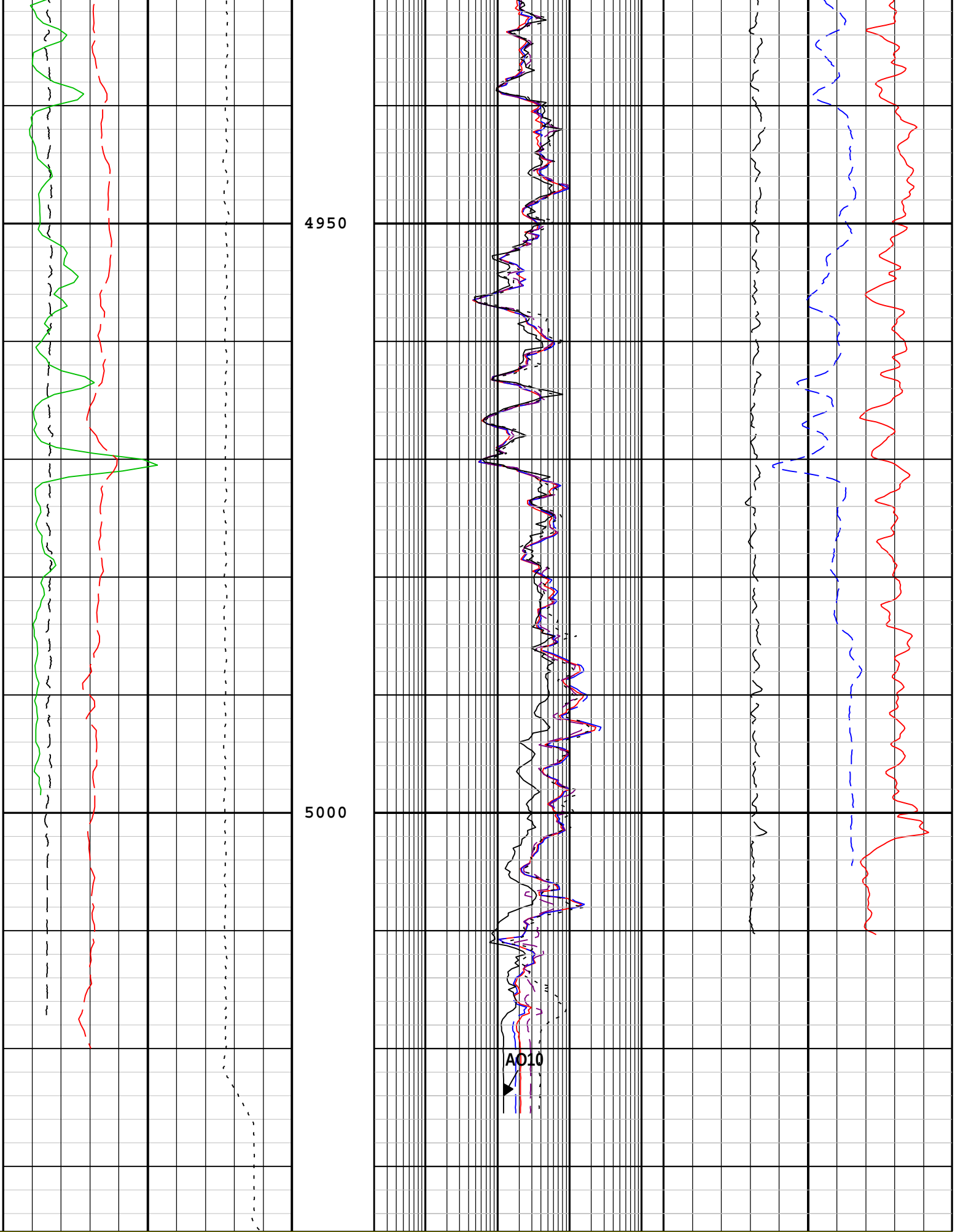




4850

4900





4950

5000

AO10

Caliper (CALI) HDRS-H 6 in 16 Cable Tension (TENS) 10000 lbf 0 Gamma Ray (GR) HGNS-H 0 gAPI 150 Spontaneous Potential (SP) AIT-M -160 mV 40	Perm	0.2 ohm.m 2000	High Resolution Formation Photoelectric Factor (PEF8) HDRS-H
		Array Induction One Foot Resistivity A60 (AO60) AIT-M	0 10
		0.2 ohm.m 2000	Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) HGNS-H
		Array Induction One Foot Resistivity A30 (AO30) AIT-M	0.3 ft3/ft3 -0.1
		0.2 ohm.m 2000	High Resolution Density Porosity (DPH8) HDRS-H
		Array Induction One Foot Resistivity A20 (AO20) AIT-M	0.45 ft3/ft3 -0.15
		0.2 ohm.m 2000	
Array Induction One Foot Resistivity A10 (AO10) AIT-M 0.2 ohm.m 2000			
Description: HGNS standard resolution porosities for Platform Express Format: Log (TCOM HiRes 10in) Index Scale: 10 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 30-Oct-2014 17:49:09			

Channel Processing Parameters

ONE: Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ACDE	Array Induction Casing Detection Enable	AIT-M	No	
ASTA	Array Induction Tool Standoff	AIT-M	1.625	in
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	118	degF
BS	Bit Size	WLSESSION	7.875	in
BSAL	Borehole Salinity	Borehole	0	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	608	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh WBM	
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	0	ppm
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HSCO	Hole Size Correction Option	HGNS-H	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	75	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.43	ohm.m
SOCO	Standoff Correction Option	HGNS-H	Yes	
SP_SHIFT	SP Shift	AIT-M	-80	mV
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft

Tool Control Parameters

ONE: Parameters

Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	Time Zoned	ft/h

ONETime Zoned Parameters

Pass Main[3]:Up

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
MAX_LOG_SPEED	3600	30-Oct-2014 16:00:27	30-Oct-2014 17:21:39	5035.51	202.45

All depth are at tool zero.

ONE

Triple Combo Repeat Pass 5" = 100'

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
IHV	Integrated Hole Volume	GCSE_UP_PASS	95.11	ft3
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	45.62	ft3

Pass Summary

Pass Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Main[3]:Up	Up	202.45 ft	5035.51 ft	30-Oct-2014 3:59:51 PM	30-Oct-2014 5:21:39 PM	ON	3.24 ft	No

All depths are referenced to toolstring zero

Log	Company:OMIMEX PETROLEUM INC. Well:CLARK 6-21 ONE: Main[3]:Up:S004
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Description: HGNS standard resolution porosities for Platform Express Format: Log (TCOM Repeat 5in) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 30-Oct-2014 17:49:11

TIME_1900 - Time Marked every 60.00 (s)

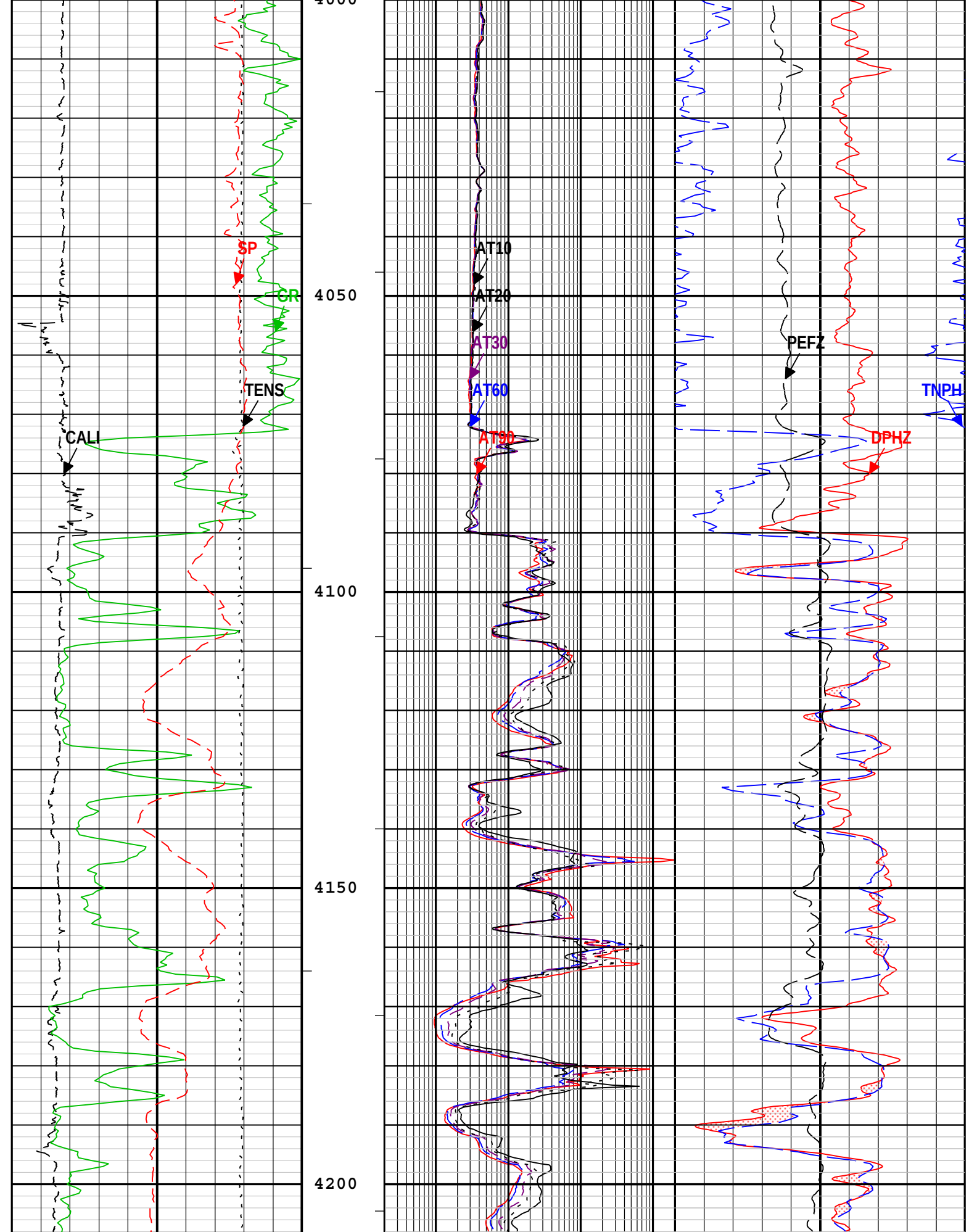
- IHV - Integrated Hole Volume every 10.00 (ft3)
- ICV - Integrated Cement Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)

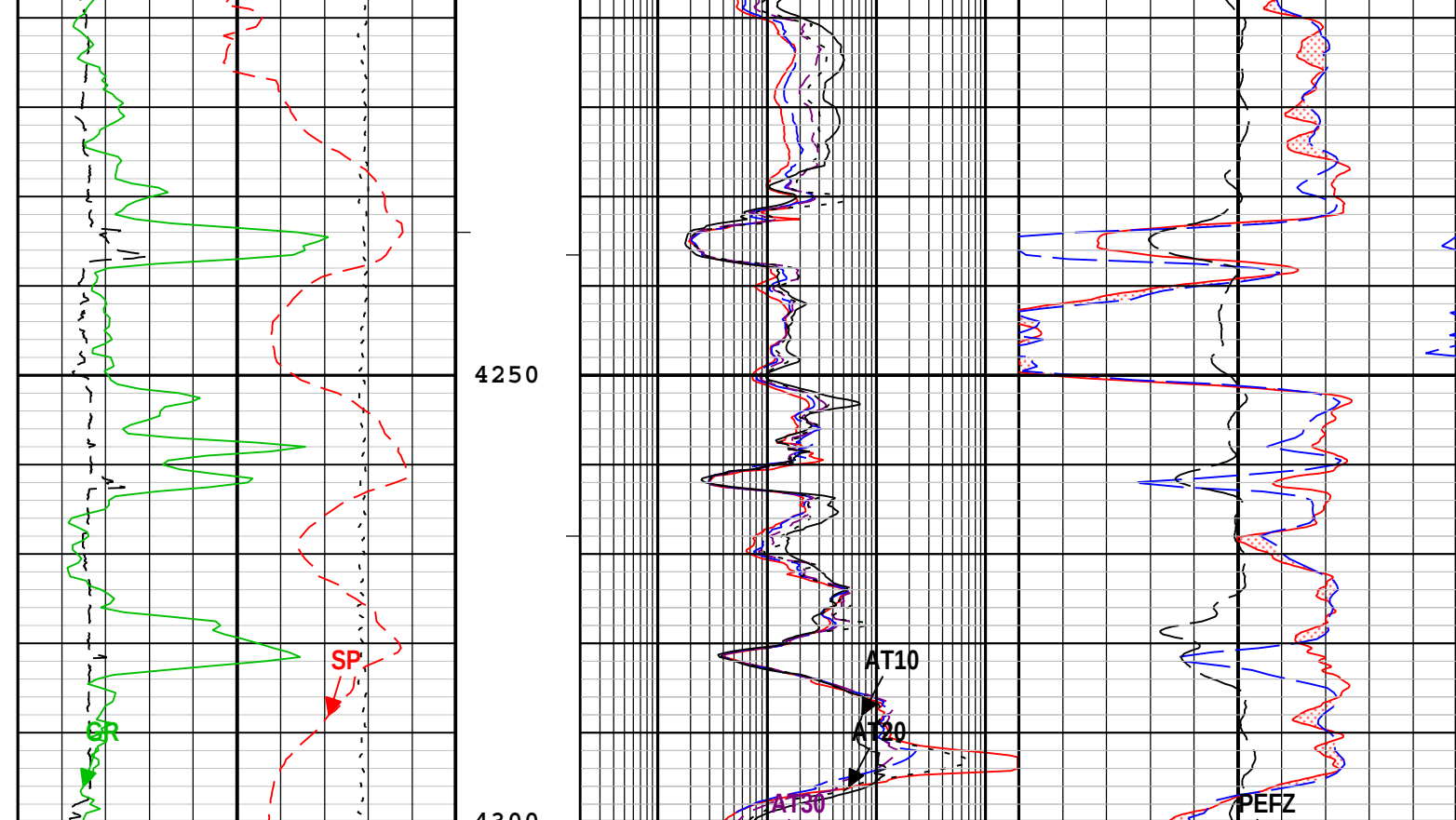
Gamma Ray Backup		
Caliper (CALI) HDRS-H		
6	in	16
Cable Tension (TENS)		
10000	lbf	0
Gamma Ray (GR) HGNS-H		
0	gAPI	150
Spontaneous Potential (SP) AIT-M		

Array Induction Two Foot Resistivity A90 (AT90) AIT-M		
0.2	ohm.m	2000
Array Induction Two Foot Resistivity A60 (AT60) AIT-M		
0.2	ohm.m	2000
Array Induction Two Foot Resistivity A30 (AT30) AIT-M		
0.2	ohm.m	2000
Array Induction Two Foot Resistivity A20 (AT20) AIT-M		
0.2	ohm.m	2000
Array Induction Two Foot Resistivity A10 (AT10) AIT-M		

Crossover		
Standard Resolution Density Porosity (DPHZ) HDRS-H		
0.3	ft3/ft3	-0.1
Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) HGNS-H		
0.3	m3/m3	-0.1
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H		

Triple Combo Repeat Pass 5" = 100'





Triple Combo Repeat Pass 5" = 100'

Gamma Ray Backup	Possible Perm	Array Induction Two Foot Resistivity A90 (AT90) AIT-M	Crossover
Caliper (CALI) HDRS-H		0.2 ohm.m 2000	Standard Resolution Density Porosity (DPHZ) HDRS-H
6 in 16			0.3 ft3/ft3 -0.1
Cable Tension (TENS)		Array Induction Two Foot Resistivity A60 (AT60) AIT-M	Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) HGNS-H
10000 lbf 0		0.2 ohm.m 2000	0.3 m3/m3 -0.1
Gamma Ray (GR) HGNS-H		Array Induction Two Foot Resistivity A30 (AT30) AIT-M	Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H
0 gAPI 150		0.2 ohm.m 2000	0 10
Spontaneous Potential (SP) AIT-M		Array Induction Two Foot Resistivity A20 (AT20) AIT-M	
-160 mV 40		0.2 ohm.m 2000	
		Array Induction Two Foot Resistivity A10 (AT10) AIT-M	
		0.2 ohm.m 2000	

—IHV - Integrated Hole Volume every 100.00 (ft3)

—ICV - Integrated Cement Volume every 10.00 (ft3)

—ICV - Integrated Cement Volume every 100.00 (ft3)

—IHV - Integrated Hole Volume every 10.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (TCOM Repeat 5in) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 30-Oct-2014 17:49:11

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ACDF	Array Induction Core Detection Factor	AIT-M	N	

ACDE	Array Induction Casing Detection Enable	AIT-M	No	
ASTA	Array Induction Tool Standoff	AIT-M	1.625	in
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	118	degF
BS	Bit Size	WLSESSION	7.875	in
BSAL	Borehole Salinity	Borehole	0	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	608	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh WBM	
DHC	Density Hole Correction	HDRS-H	Bit Size	
FCD	Future Casing (Outer) Diameter	WLSESSION	5.5	in
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	0	ppm
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HSCO	Hole Size Correction Option	HGNS-H	Yes	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	75	degF
NPRM	HRDD Nuclear Processing Mode	HDRS-H	Standard Resolution	
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.43	ohm.m
SOCO	Standoff Correction Option	HGNS-H	Yes	
SP_SHIFT	SP Shift	AIT-M	-80	mV
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft

Tool Control Parameters										
Parameter		Description			Tool		Value		Unit	
HMCA_BRD_TYPE		HMCA Board Type			HGNS-H		1			
HRGD_BRD_TYPE		HRGD Board Type			HDRS-H		WITH_HET			
MAX_LOG_SPEED		Toolstring Maximum Logging Speed			WLSESSION		3600		ft/h	
ONE										
Triple Combo Repeat Analysis 5" =100'										
Pass Summary										
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data	
ONE	Log[2]:Up	Up	3998.78 ft	5033.75 ft	30-Oct-2014 3:11:30 PM	30-Oct-2014 3:47:52 PM	ON	2.08 ft	No	
ONE	Main[3]:Up	Up	202.45 ft	5035.51 ft	30-Oct-2014 3:59:51 PM	30-Oct-2014 5:21:39 PM	ON	3.24 ft	No	
All depths are referenced to toolstring zero										
Log	Company:OMIMEX PETROLEUM INC. Well:CLARK 6-21 ONE: Main[3]:Up:S004									

Description: HGNS standard resolution porosities for Platform Express
Format: Log (TCOM 5in RA)
Index Scale: 5 in per 100 ft
Index Unit: ft
Index Type: Measured Depth
Creation Date: 30 Oct 2014 17:40:12

—|IHV - Integrated Hole Volume every 10.00 (ft3)

—|ICV - Integrated Cement Volume every 100.00 (ft3)

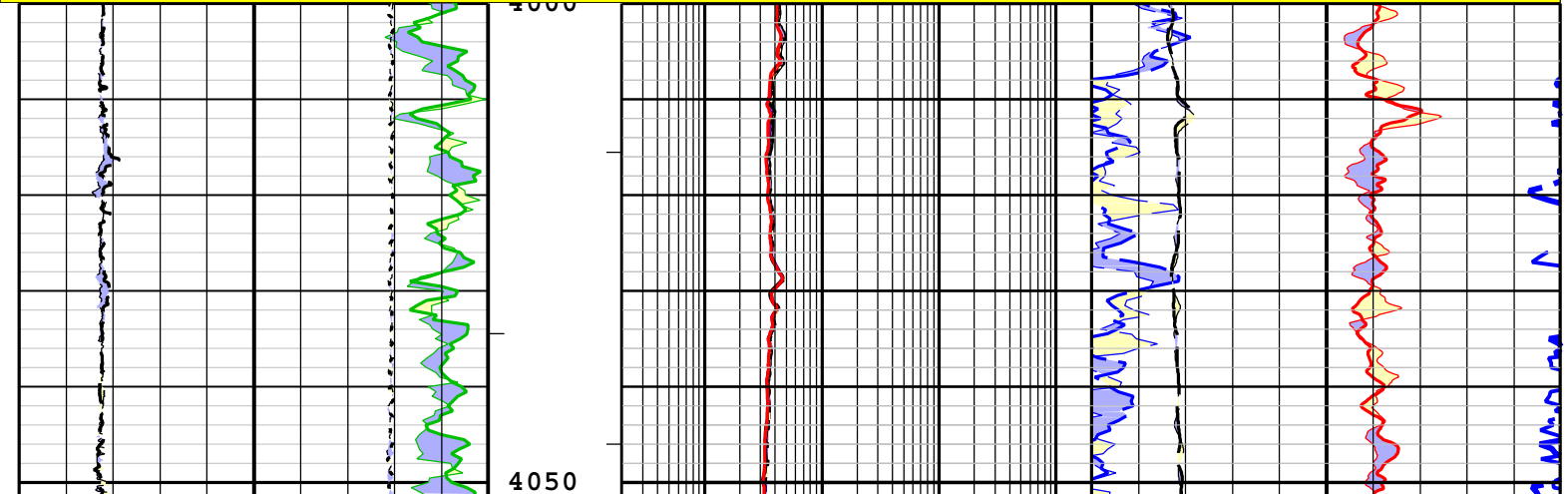
—|ICV - Integrated Cement Volume every 10.00 (ft3)

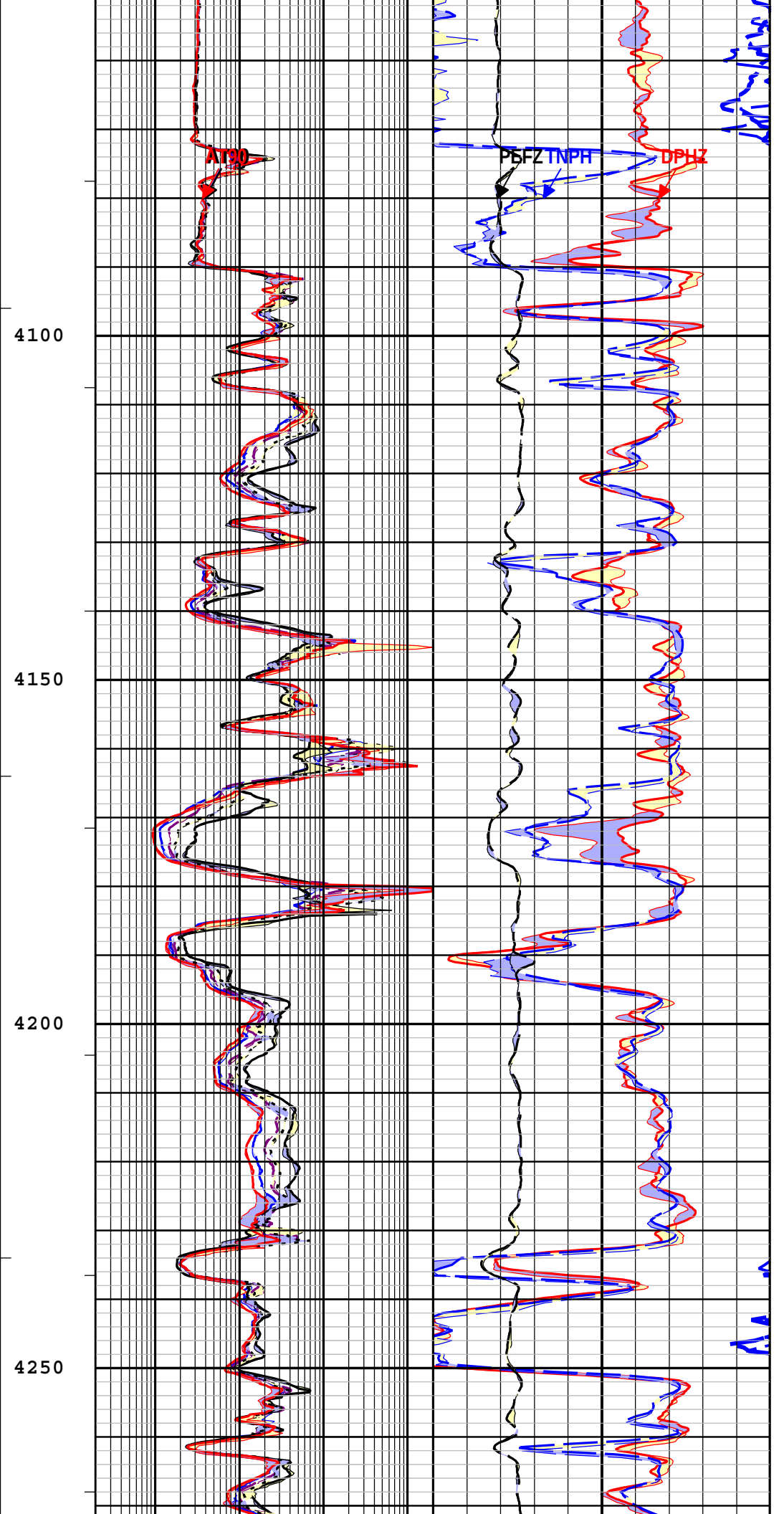
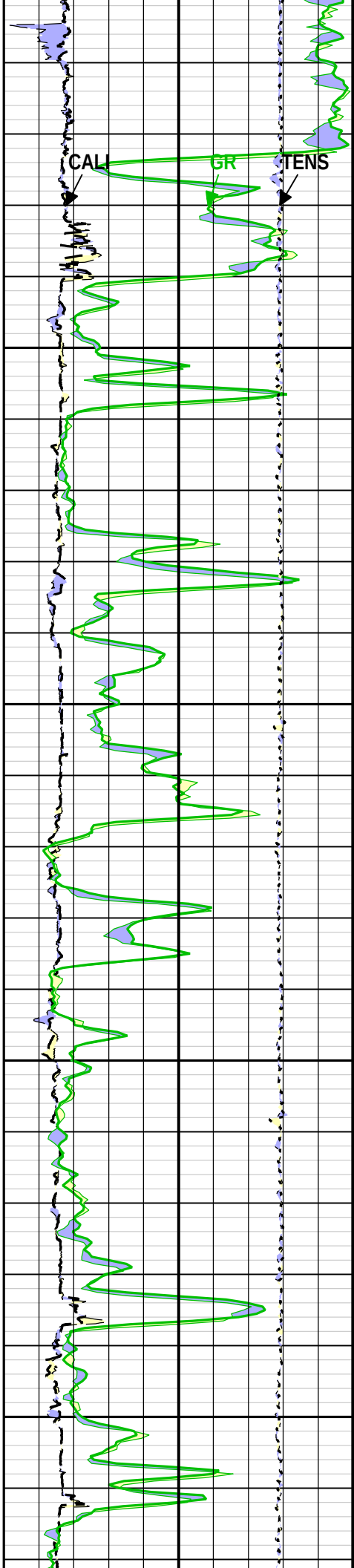
—|IHV - Integrated Hole Volume every 100.00 (ft3)

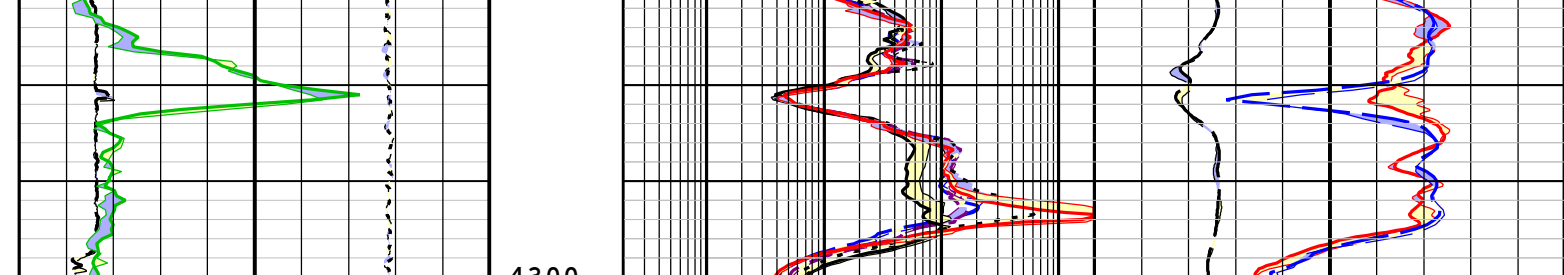
TIME_1900 - Time Marked every 60.00 (s)

<table><tr><td colspan="3">Main To Repeat</td></tr><tr><td colspan="3">Repeat To Main</td></tr><tr><td colspan="3">Caliper (CALI) HDRS-H</td></tr><tr><td>6</td><td>in</td><td>16</td></tr><tr><td colspan="3">Main To Repeat</td></tr><tr><td colspan="3">Repeat To Main</td></tr><tr><td colspan="3">Gamma Ray (GR) HGNS-H</td></tr><tr><td>0</td><td>gAPI</td><td>150</td></tr><tr><td colspan="3">Main To Repeat</td></tr><tr><td colspan="3">Repeat To Main</td></tr><tr><td colspan="3">Cable Tension (TENS)</td></tr><tr><td>10000</td><td>lbf</td><td>0</td></tr></table>	Main To Repeat			Repeat To Main			Caliper (CALI) HDRS-H			6	in	16	Main To Repeat			Repeat To Main			Gamma Ray (GR) HGNS-H			0	gAPI	150	Main To Repeat			Repeat To Main			Cable Tension (TENS)			10000	lbf	0	<table><tr><td colspan="3">Main To Repeat</td></tr><tr><td colspan="3">Repeat To Main</td></tr><tr><td colspan="3">Array Induction Two Foot Resistivity A60 (AT60) AIT-M</td></tr><tr><td>0.2</td><td>ohm.m</td><td>2000</td></tr><tr><td colspan="3">Main To Repeat</td></tr><tr><td colspan="3">Repeat To Main</td></tr><tr><td colspan="3">Array Induction Two Foot Resistivity A30 (AT30) AIT-M</td></tr><tr><td>0.2</td><td>ohm.m</td><td>2000</td></tr></table>	Main To Repeat			Repeat To Main			Array Induction Two Foot Resistivity A60 (AT60) AIT-M			0.2	ohm.m	2000	Main To Repeat			Repeat To Main			Array Induction Two Foot Resistivity A30 (AT30) AIT-M			0.2	ohm.m	2000	
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Triple Combo Repeat Analysis 5" = 100'







Triple Combo Repeat Analysis 5" = 100'

Main To Repeat		
Repeat To Main		
Caliper (CALI) HDRS-H		
6	in	16
Main To Repeat		
Repeat To Main		
Gamma Ray (GR) HGNS-H		
0	gAPI	150
Main To Repeat		
Repeat To Main		
Cable Tension (TENS)		
10000	lbf	0

Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A60 (AT60) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A30 (AT30) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A10 (AT10) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A20 (AT20) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A90 (AT90) AIT-M		
0.2	ohm.m	2000

Main To Repeat		
Repeat To Main		
Standard Resolution Density Porosity (DPHZ) HDRS-H		
0.3	ft3/ft3	-0.1
Main To Repeat		
Repeat To Main		
Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) HGNS-H		
0.3	m3/m3	-0.1
Main To Repeat		
Repeat To Main		
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H		
0		20

TIME_1900 - Time Marked every 60.00 (s)

—|IHV - Integrated Hole Volume every 100.00 (ft3)

—|ICV - Integrated Cement Volume every 10.00 (ft3)

—|ICV - Integrated Cement Volume every 100.00 (ft3)

—|IHV - Integrated Hole Volume every 10.00 (ft3)

Description: HGNS standard resolution porosities for Platform Express Format: Log (TCOM 5in RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 30-Oct-2014 17:49:12

Company:	OMIMEX PETROLEUM INC.	Schlumberger
Well:	CLARK 6-21	
Field:	FRUIT NORTH	
County:	KIOWA	
State:	KANSAS	
TRIPLE COMBO		
ARRAY INDUCTION		
LITHO-DENSITY / COMPENSATED NEUTRON		