

Company: Omimex Petroleum Inc

Well: Bledsoe 10-3-5-45

Field: Ballyneal

County: Yuma Country: USA

Platform Express			
Compensated Neutron Log			
LithoDensity			
Location:		NWSE Sec. 3, T5N, R45W SHL: 2261' FSL X 2299' FEL	Elev. K.B. 3789.00 ft G.L. 3783.00 ft D.F. 3788.00 ft
Permanent Datum:	Ground Level	Elev.:	3783.00 f
Log Measured From:	Kelly Bushing	6.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Max.Hole Deviation	Longitude:	Latitude:
05-125-11139-0000	1.18 deg	-102.36701 degrees	40.431219 degrees
Logging Date	17-Dec-2013		
Run Number	Run1d		
Depth Driller	2697.00 ft		
Schlumberger Depth	2697.00 ft		
Bottom Log Interval	2655.00 ft		
Top Log Interval	466.00 ft		
Casing Driller Size @ Depth	7 in @ 455.00 ft		
Casing Schlumberger	455 ft		
Bit Size	6.25 in		
Type Fluid In Hole	Chemical Gel		
Density	8.8 lbm/gal		
Fluid Loss	PH		
Source of Sample	Active Tank		
RM @ Meas Temp	0.4 ohm.m @ 85 degF		
RMF @ Meas Temp	0.32 ohm.m @ 85 degF		
RMC @ Meas Temp	0.48 ohm.m @ 68 degF		
Source RMF	RMC	Pressed	
RM @ BHT	RMF @ BHT	0.17 @ 212 0.13 @ 212	
Max Recorded Temperatures			
Circulation Stopped	Time	12:00:00	
Logger on Bottom	Time	16:50:30	
Unit Number	Location:	Ft. Morgan, CO	
Recorded By	Tim Hoffman		
Witnessed By	Jeremy Fisher		

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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11. Run1d 5" Density

11.1 Integration Summary

11.2 Software Version

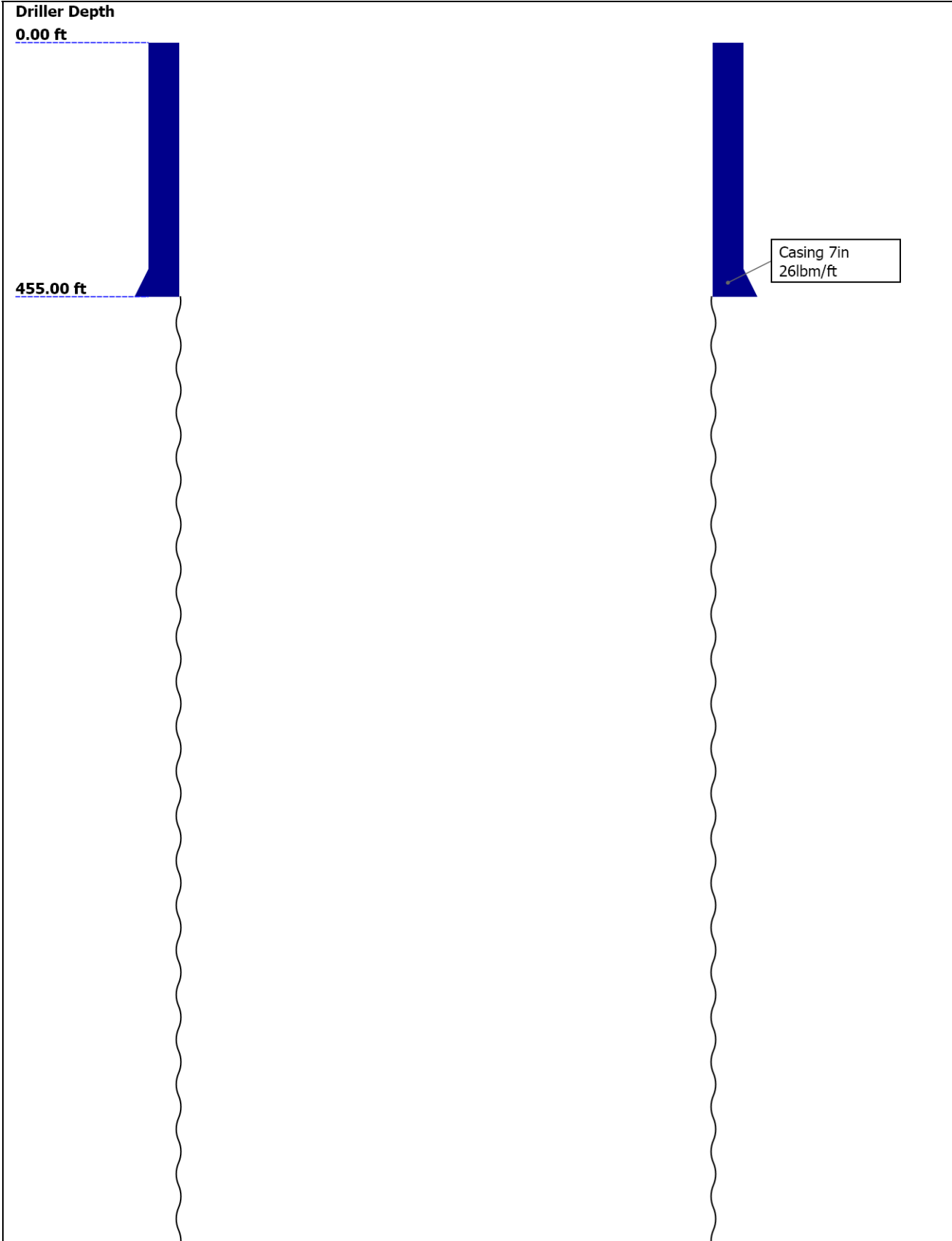
11.3 Composite Summary

11.4 Log ( EMD 5in Density )

11.5 Parameter Listing

12. Tail

Well Sketch



2697.00 ft

Open Hole 6.25in

Borehole Size/Casing/Tubing Record

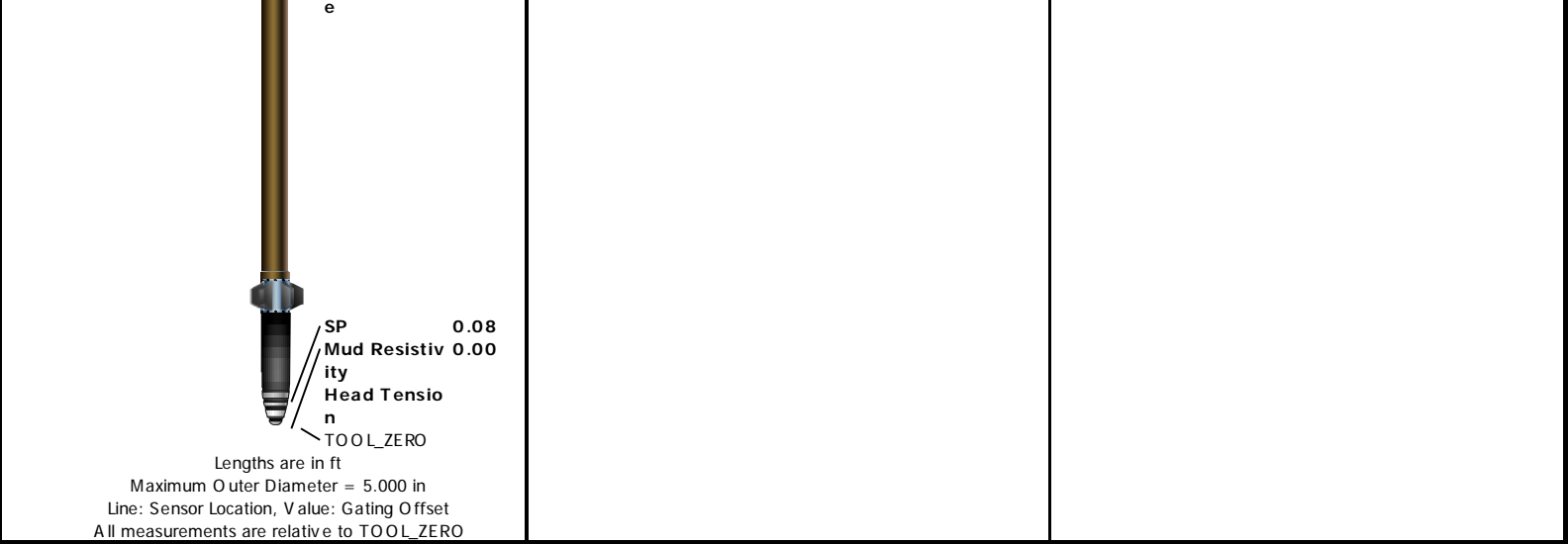
Bit						
Bit Size ( in )	6.25					
Top Driller ( ft )	455					
Top Logger ( ft )	455					
Bottom Driller ( ft )	2697					
Bottom Logger ( ft )	2697					
Casing						
Size ( in )	7					
Weight ( lbm/ft )	26					
Inner Diameter ( in )	6.283					
Top Driller ( ft )	0					
Top Logger ( ft )	0					
Bottom Driller ( ft )	455					
Bottom Logger ( ft )	455					

Operational Run Summary

Parameter ( unit )	Run1d					
Date Log Started	17-Dec-2013					
Time Log Started	16:26:21					
Date Log Finished	17-Dec-2013					
Time Log Finished	17:33:38					
Top Log Interval ( ft )	466.00					
Bottom Log Interval ( ft )	2655.00					
Total Depth ( ft )	2663.00					
Max Hole Deviation ( deg )	1.18					
Azimuth of Max Deviation ( deg )	19.62					
Bit Size ( in )	6.250					
Logging Unit Number	3022					
Logging Unit Location	Ft. Morgan, CO					
Recorded By	Tim Hoffman					
Witnessed By	Jeremy Fisher					
Service Order Number	CCN1-00035					

# Remarks and Equipment Summary

Run1d: Toolstring				Run1d: Remarks
<b>Equip name</b>	<b>Length</b>	<b>MP name</b>	<b>Offset</b>	This is the first run in hole
LEH-QT	49.57			Toolstring run as per tool sketch
LEH-QT				Toolstring run without bowspring as per client request
<b>DTC-H:8906</b>	46.65			Matrix: Limestone (2.71 g/cc)
ECH-KC:9984		CTEM	45.75	Rig: Excel Rig 2
DTC-H:8906		HV	0.00	Crew: Jay Musgrave, Derrick Hunter
		ToolStatus	43.65	
		TelStatus	43.65	
<b>A H-184</b>	43.65			
<b>GPIT-F</b>	41.65			
GPIH-B				
GPIC-F				
DHRU-F		GPIT-F Incl inometer	40.23	
<b>HGNS-B:1918</b>	37.65			
HGNH:2973		GPIT	0.00	
NPV-N		Temperatur e	37.62	
NSR-F:5069		GR	36.91	
HACCZ-B:727				
HGNS-B:1918				
HMCA-B				
		CNL Porosity	30.57	
		HGNS	28.24	
		HMCA	28.24	
		Accelerometer	0.00	
<b>HDRS-B:1716</b>	28.24			
ECH-MEB				
HRCC-B:860				
HRMS-B:1716				
GSR-J:5094				
Long Spacing				
HRGD-B:1748				
Short Spacing				
GPV-Q		HRCC	24.24	
Backscatter				
		MCFL	18.81	
		Caliper	18.33	
		TLD Density	17.94	
<b>A IT-H:398</b>	16.00			
AHIS:398				
AHRM				
		Induction	7.91	
		Power Supply	7.91	
		Temperature	7.91	



Depth Summary			
Depth Control Parameters	Run1d		
Conveyance Type	Wireline		
Stretch Correction ( ft )	0.00		
Depth Remark Parameters	Run1d		
Depth Remark 1	All Schlumberger depth policies followed.		
Depth Remark 2	IDW used as primary depth reference. Z-chart used as secondary.		
Depth Measuring Device	Run1d		
Type	IDW-B		
Wheel Correction 1	1		
Wheel Correction 2	0		
Tension Device	Run1d		
Type	CMTD-B/A		
Calibration Points	0		
Logging Cable	Run1d		
Type	7-46NT-XS		
Logging Cable Length ( ft )	24000.00		
Run1d			
5" Porosity			

Integration Summary				
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
Software Version				
Acquisition System		Version		
MaxWell		3.1.9755.0		
Application Patch		SP-20130325-3.1.9755.1799		
		EXP_APL-AIT-3.1.9755.1975		
		EXP_APL-PPCEXT-3.1.9755.2022		
		EXP_APL-MASTCustWF-3.1.9755.2031		
		EXP_APL-MSCT-3.1.9755.1991		
Computation	Description			Version
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections			3.1.9755.0
DepthCorrection	DepthCorrection			3.1.9755.1799

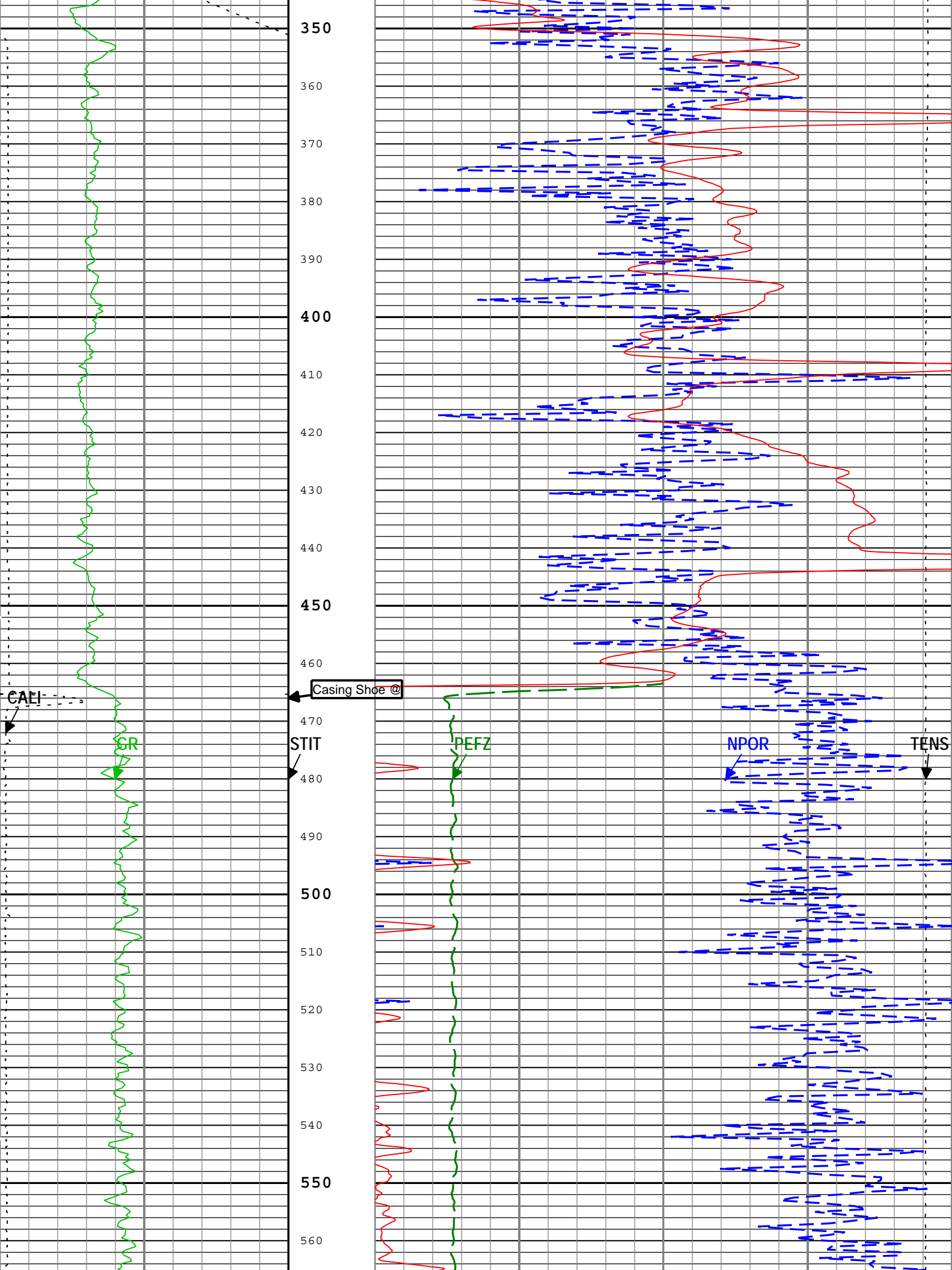
Pass Summary								
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run1d	Log[3]:Up	Up	311.83 ft	2669.44 ft	17-Dec-2013 4:52:46 PM	17-Dec-2013 5:33:08 PM	0.00 ft	

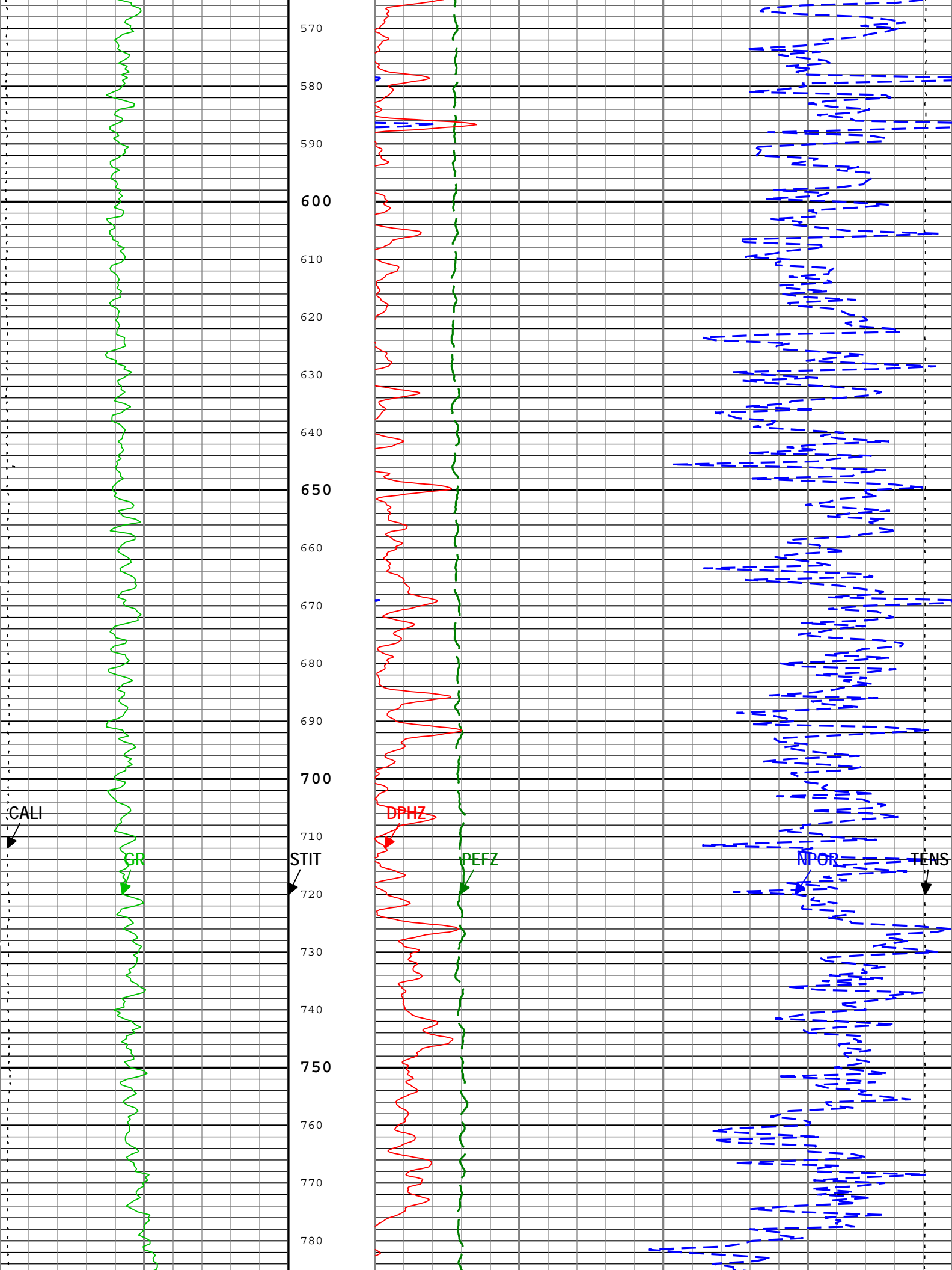
Log

Run1d: Log[3]:Up

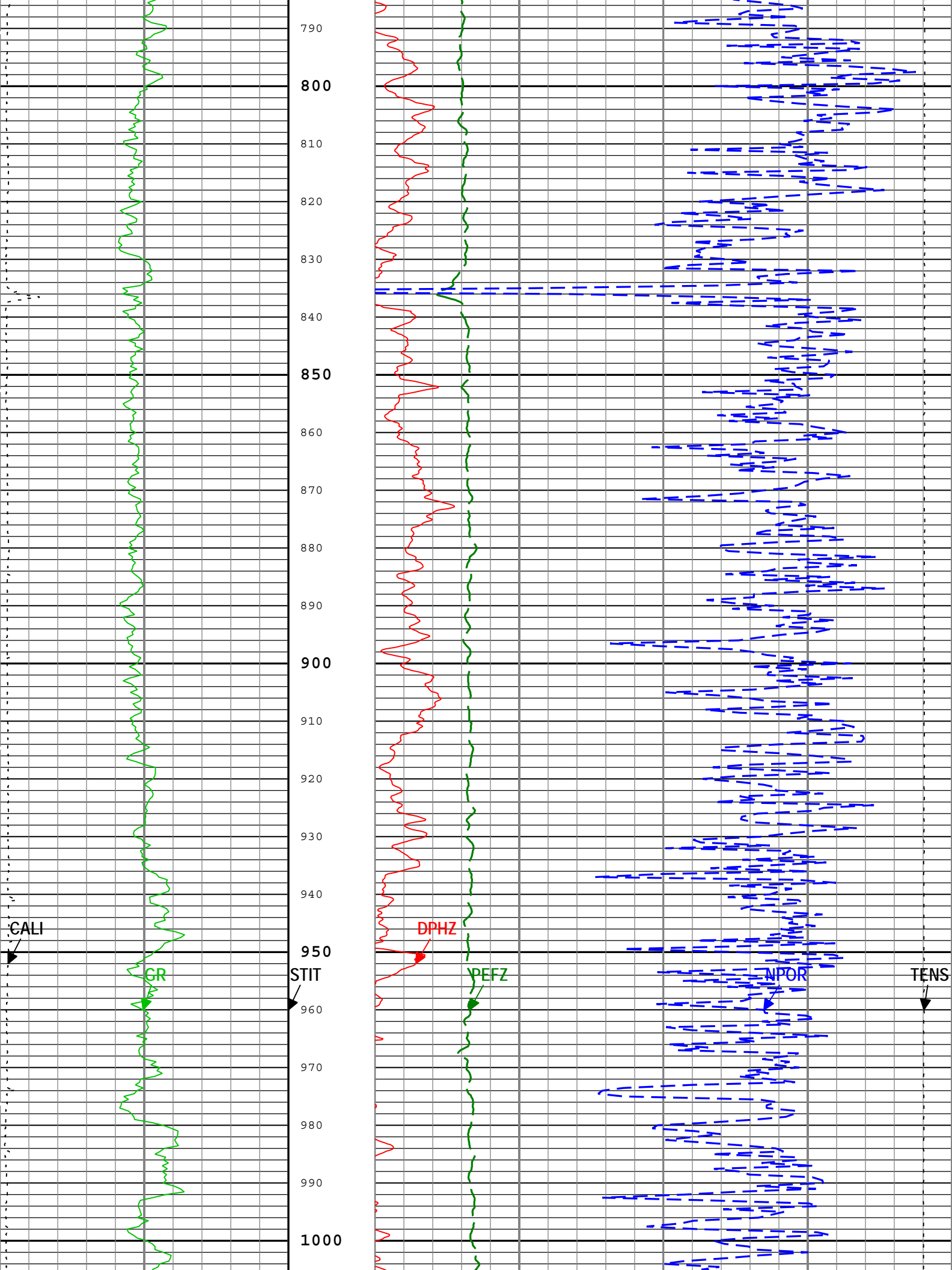
Channel	Source	Sampling
CALI	HDRS-B:HRCC-B:HRCC-B	1in
DPHZ	HDRS-B:HRMS-B:HRGD-B	2in
GR	HGNS-B:HGNS-B:HGNS-B	6in
NPOR	HGNS-B:HGNS-B:HGNS-B	6in
PEFZ	HDRS-B:HRMS-B:HRGD-B	2in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

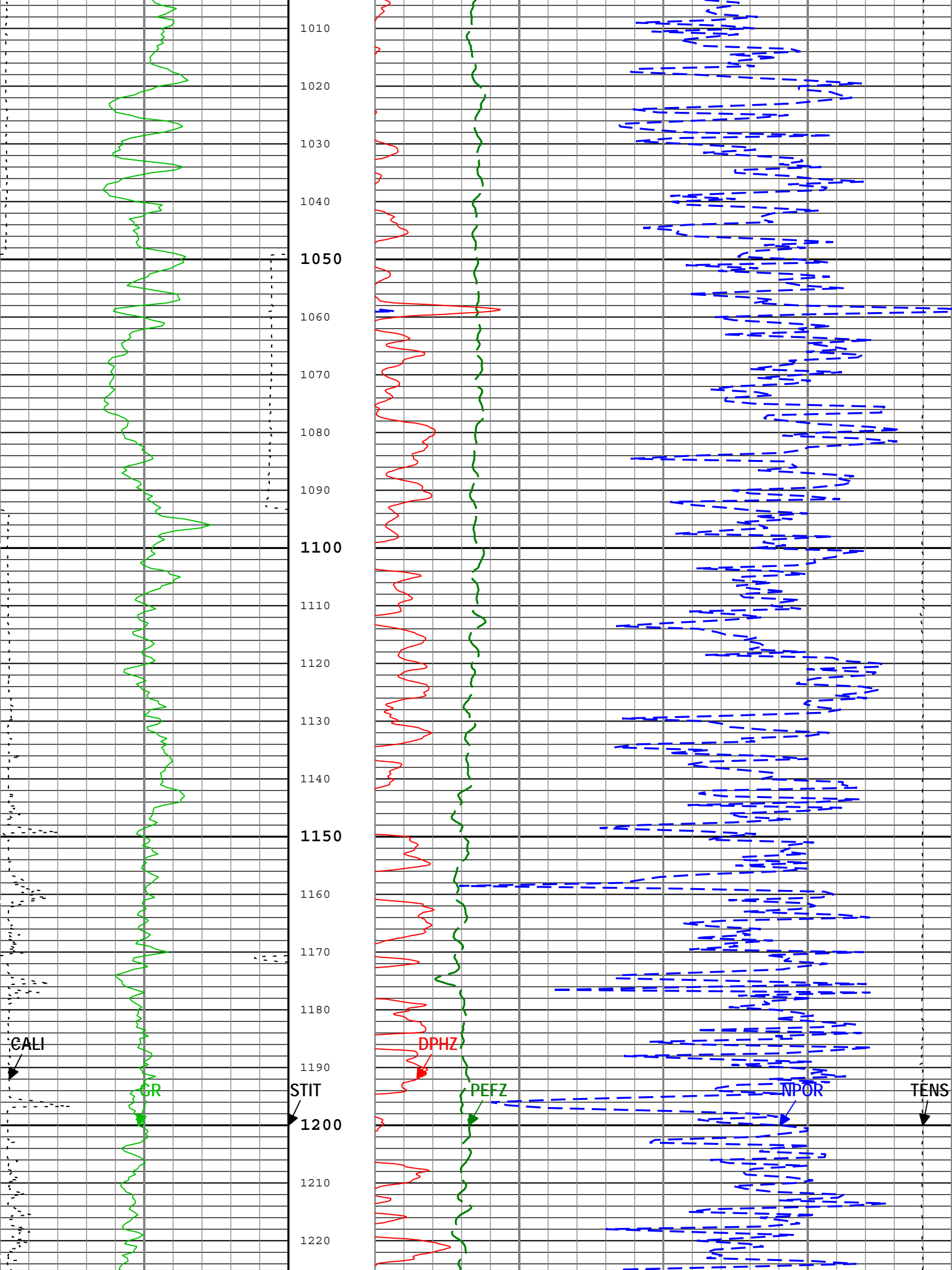
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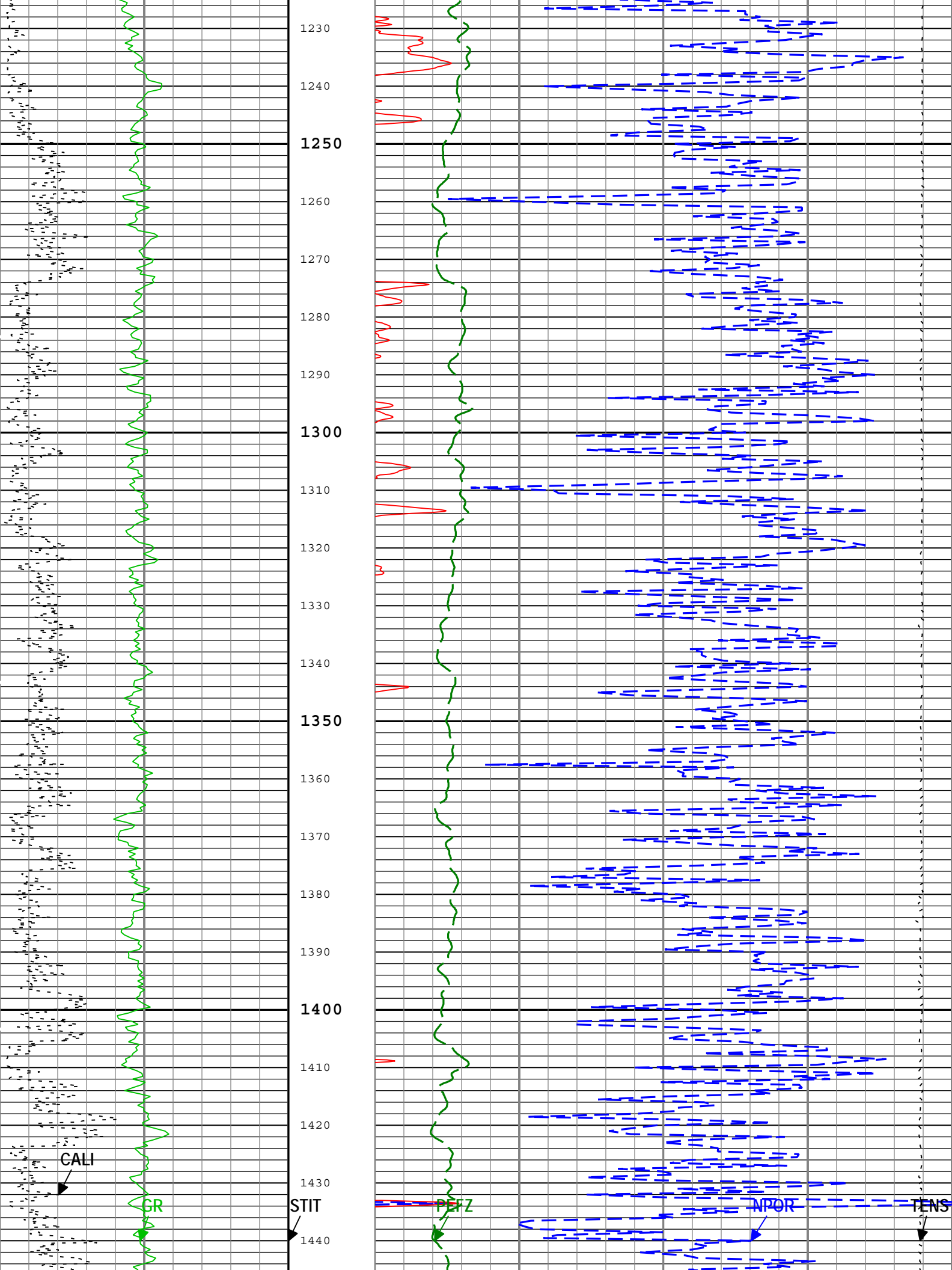


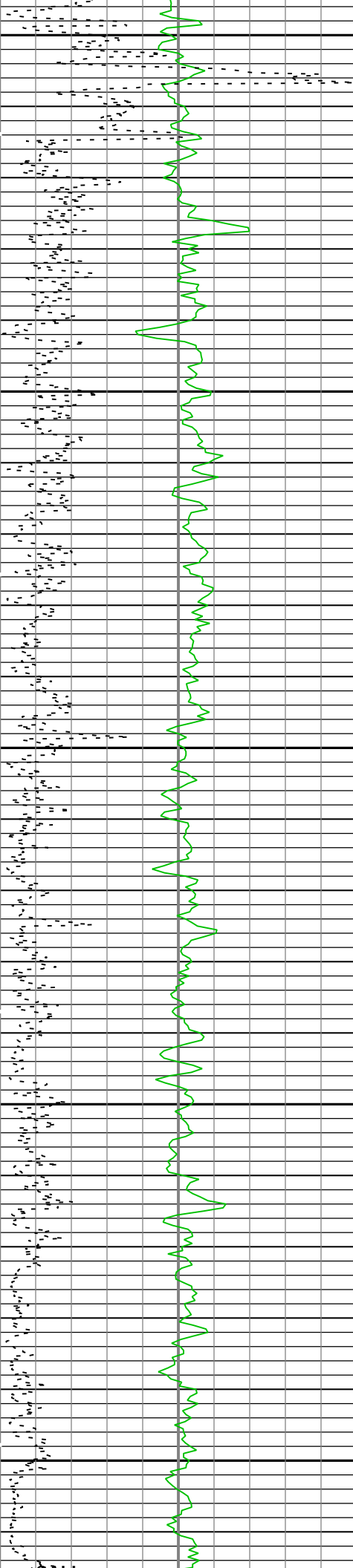












1450

1460

1470

1480

1490

1500

1510

1520

1530

1540

1550

1560

1570

1580

1590

1600

1610

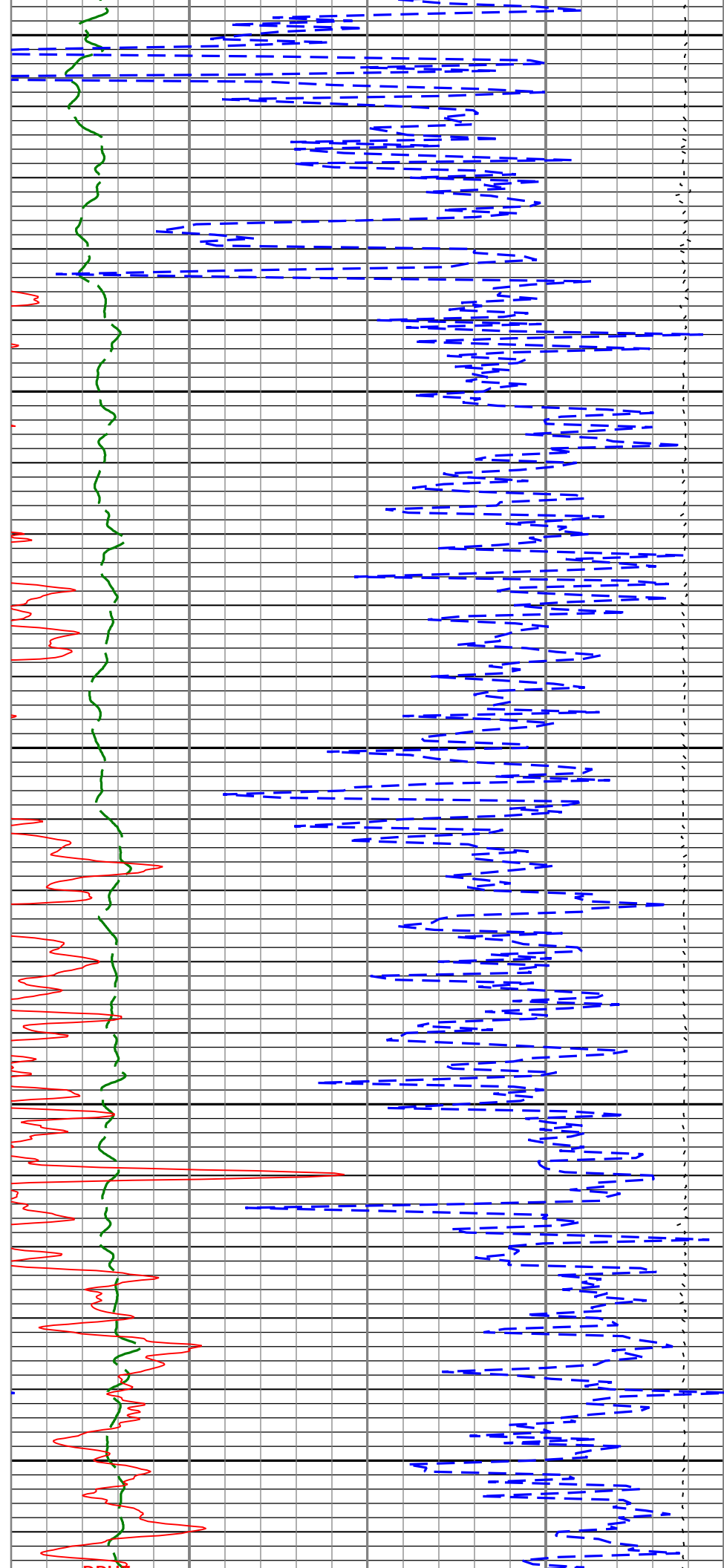
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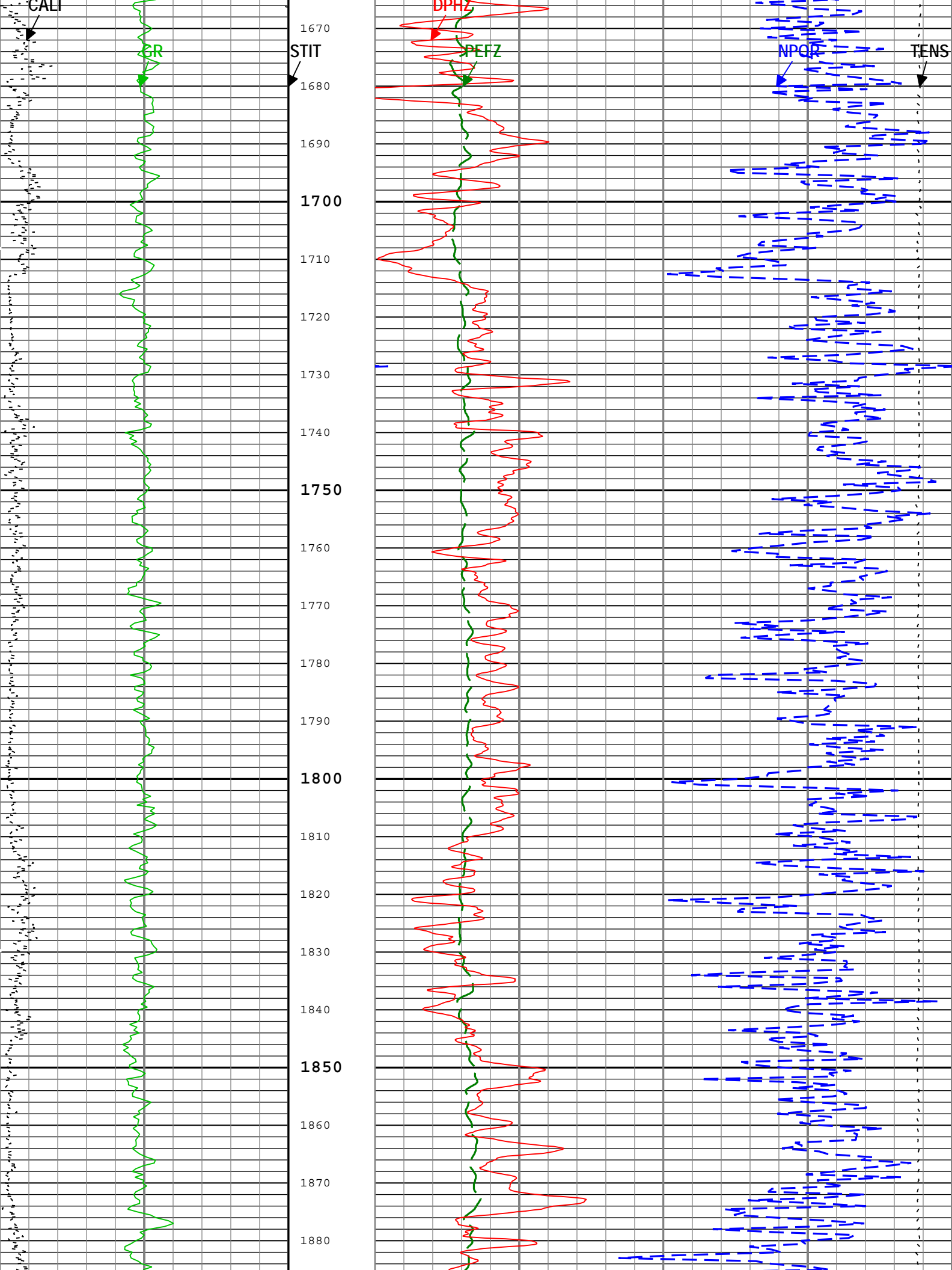
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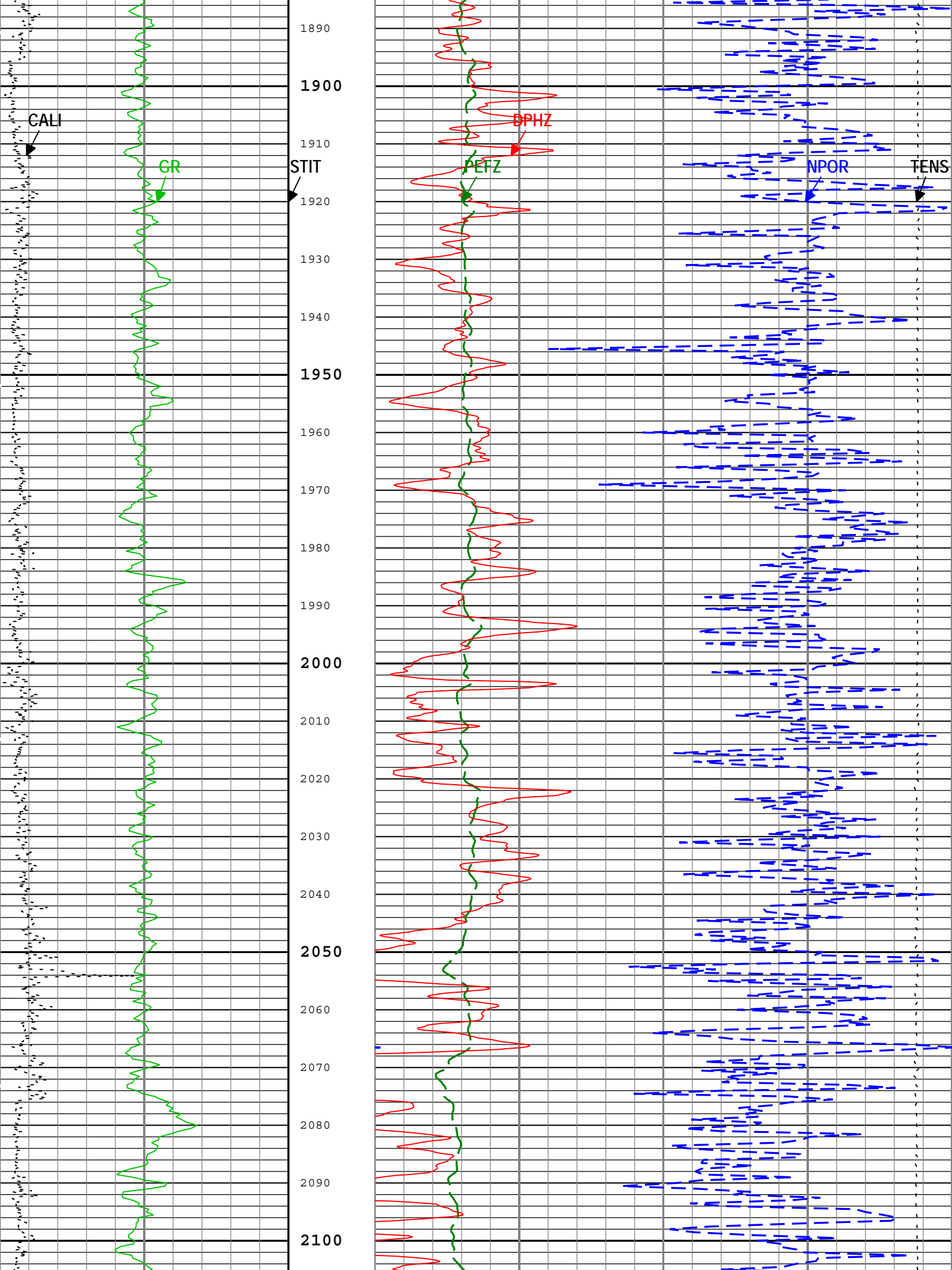
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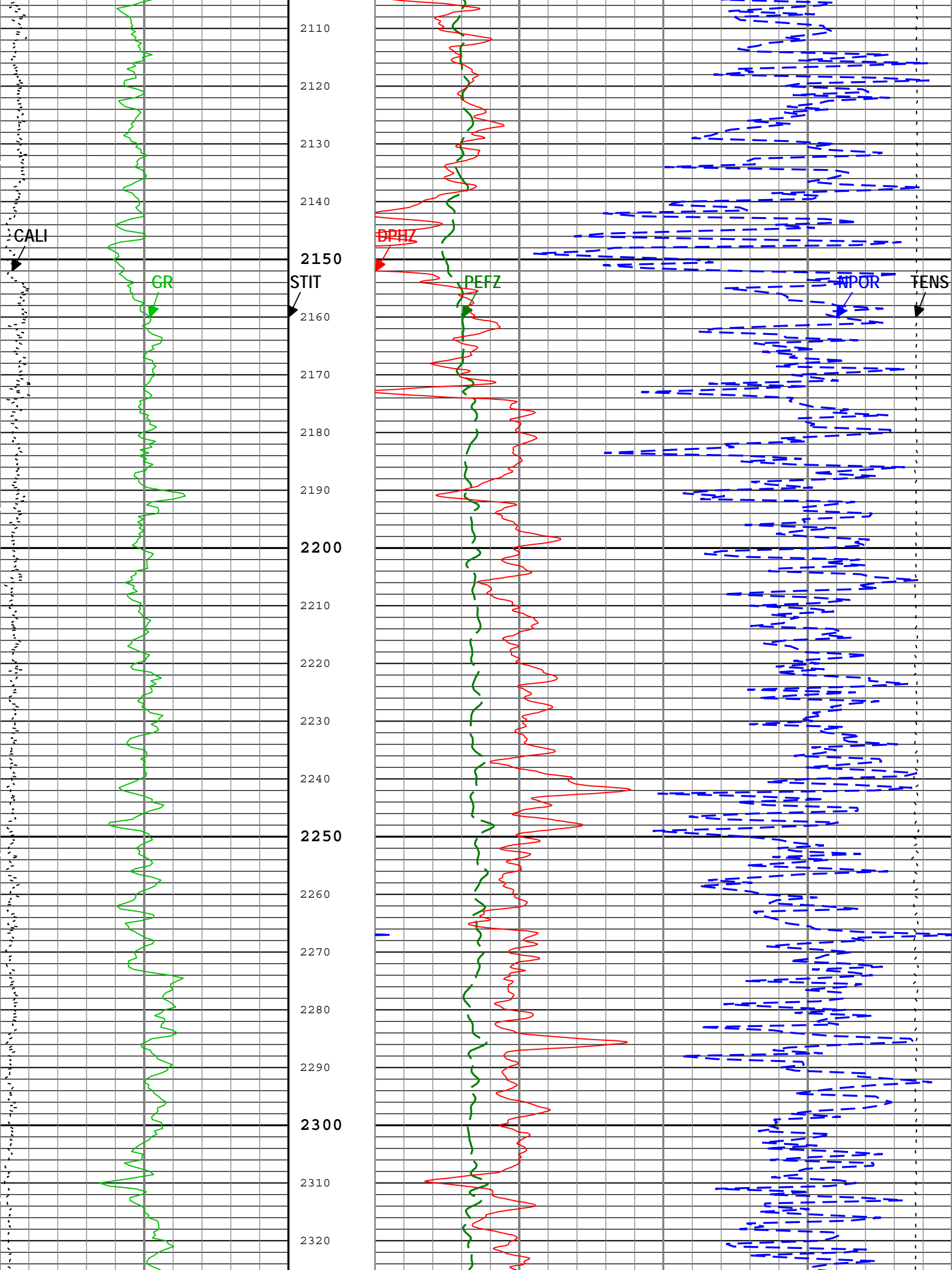
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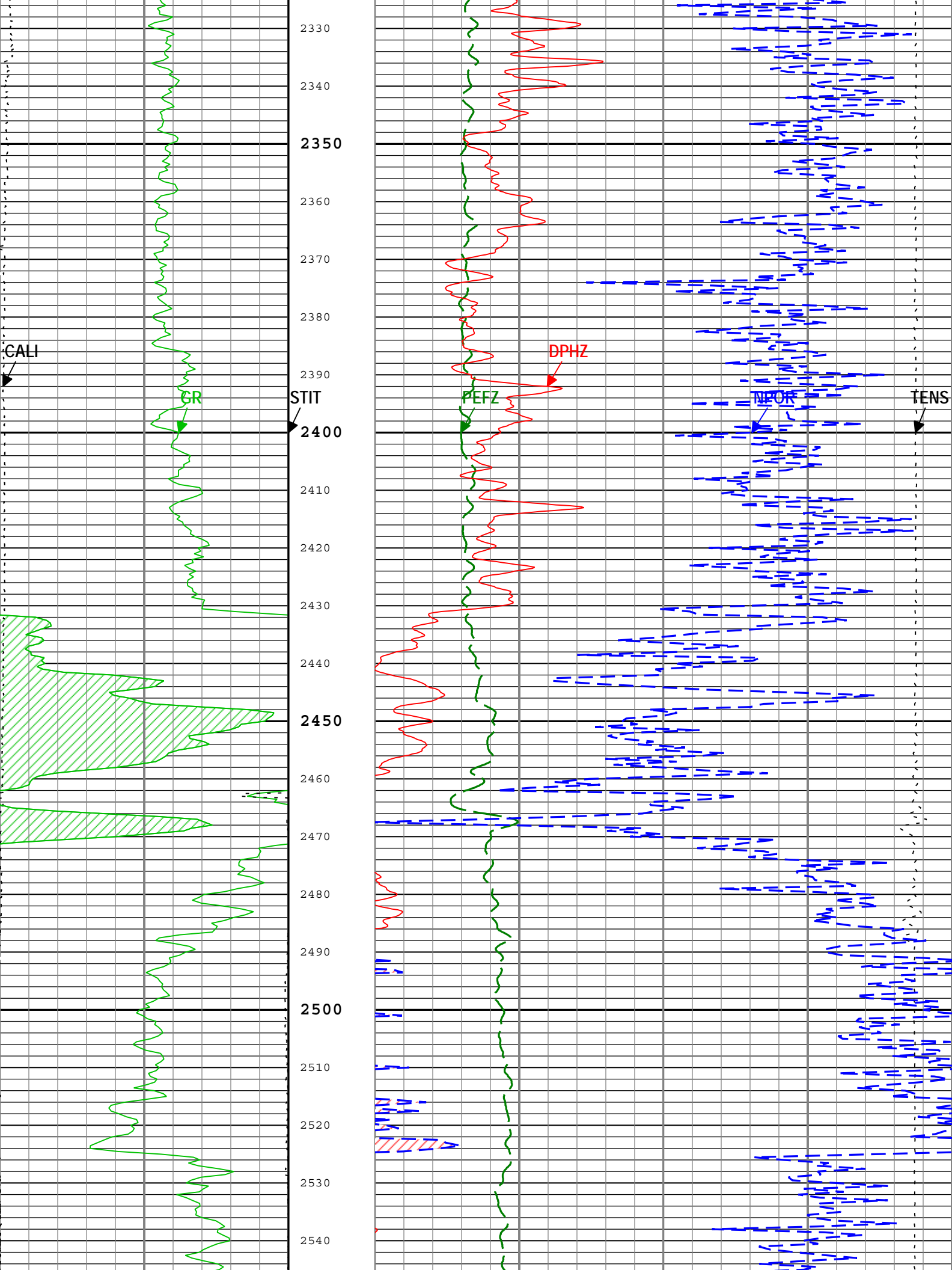
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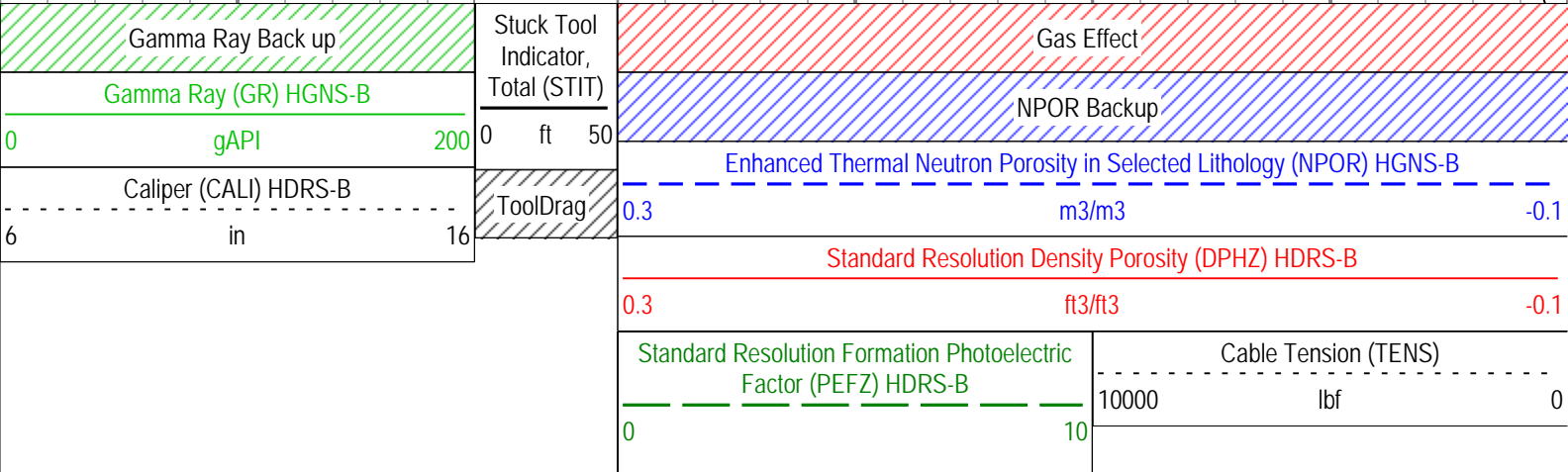
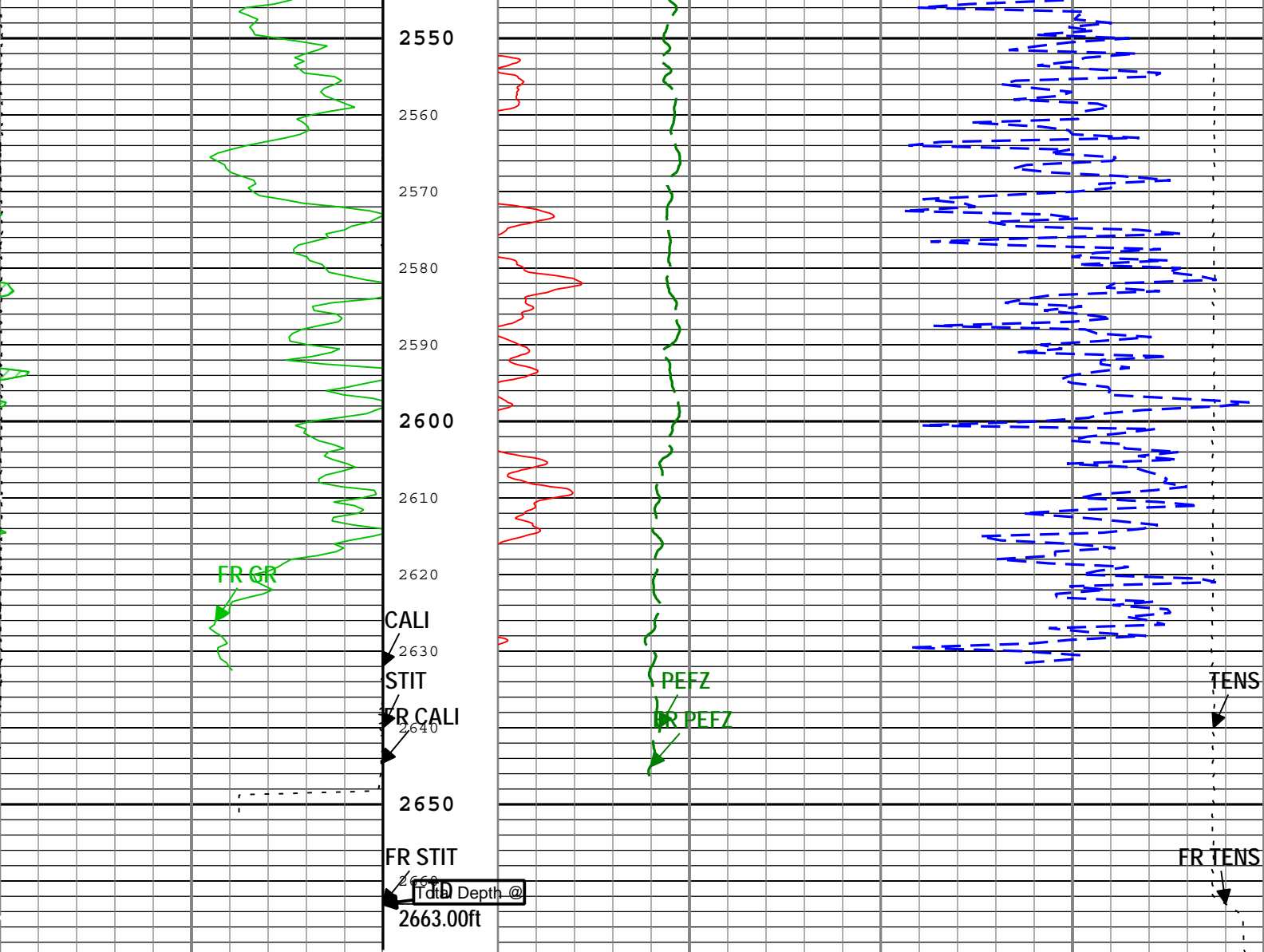












TIME\_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express    Format: Log ( EMD 5in Porosity )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 17-Dec-2013 17:52:52

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	13117.17	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-B	-0.18	in

CBLO	Casing Bottom (Logger)	WLSESSION	455	ft
CDEN	Cement Density	HGNS-B	2	g/cm3
DFD	Drilling Fluid Density	Borehole	8.8	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	Chemical Gel	
DHC	Density Hole Correction	HDRS-B	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-B	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	85	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.32	ohm.m
SOCO	Standoff Correction Option	HGNS-B	Yes	
TD	Total Measured Depth	Borehole	2663	ft

Depth Zone Parameters			
Parameter	Value	Start ( ft )	Stop ( ft )
BS	0	275	455
BS	6.25	455	2669.5
All depth are actual.			

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-B	0	
HRGD_BRD_TYPE	HRGD Board Type	HDRS-B	WITHOUT_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h
STSO_HRDD	Temperature Source for the Density Algorithm	HDRS-B	Decaytime algorithm	

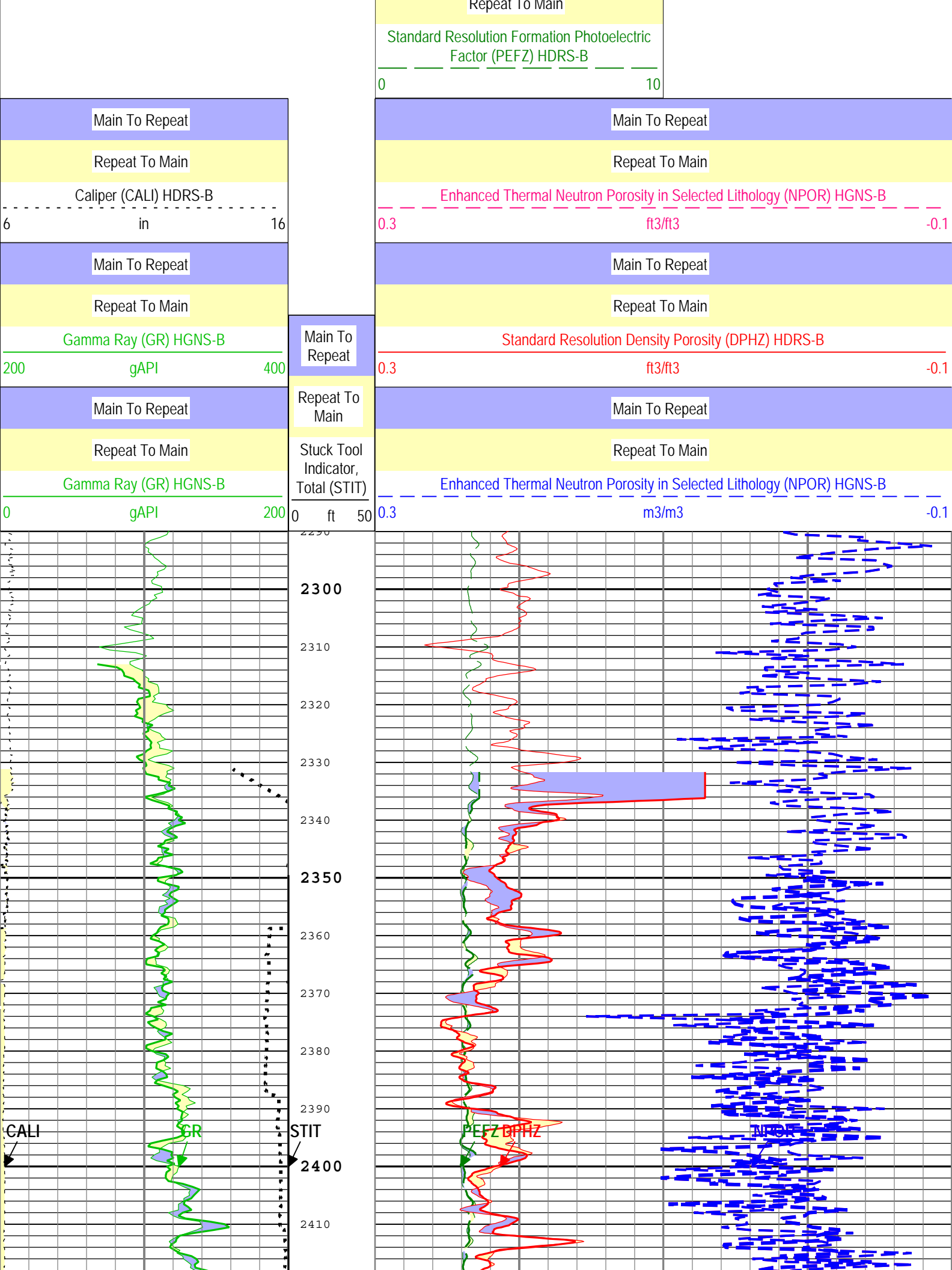
Run1d								
Repeat Analysis								

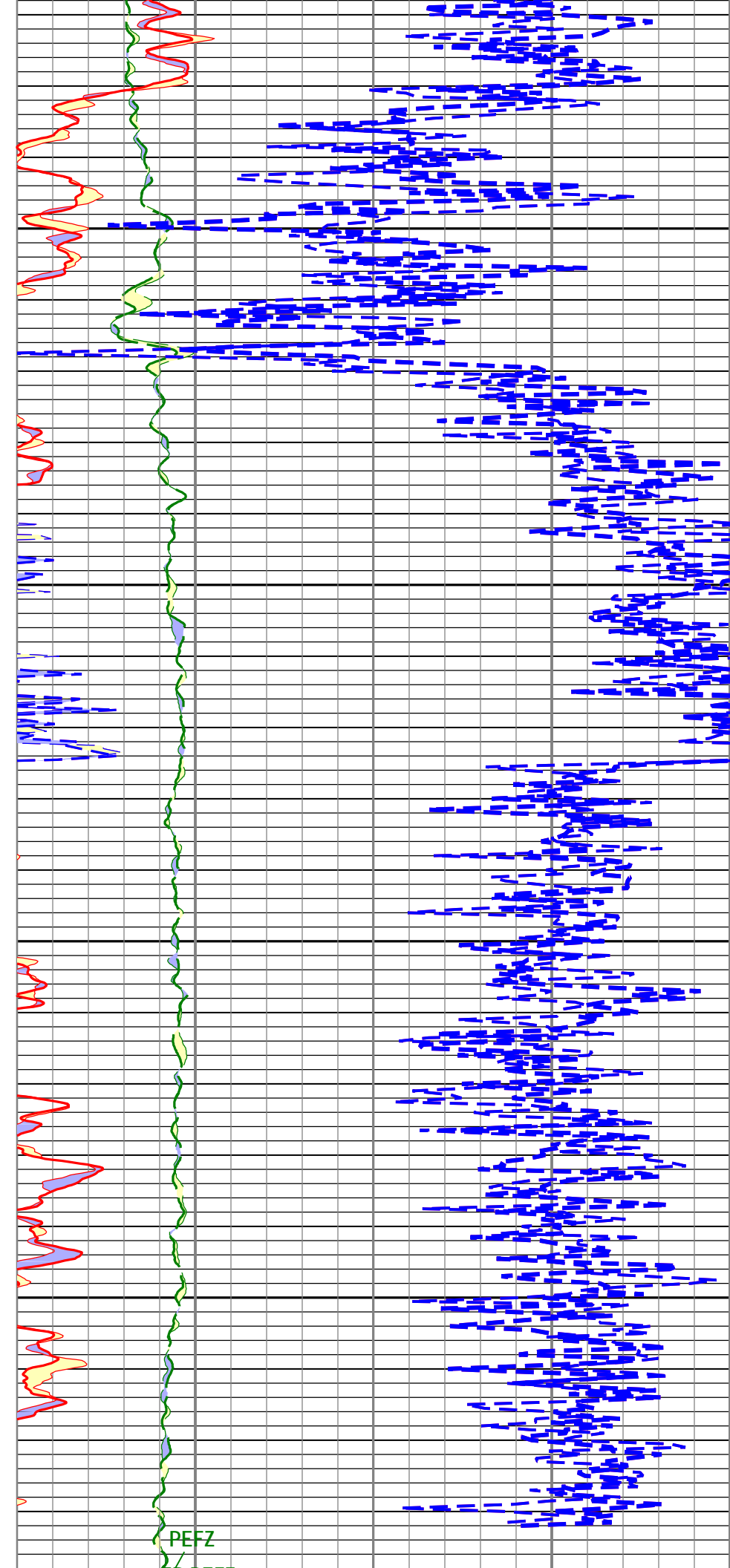
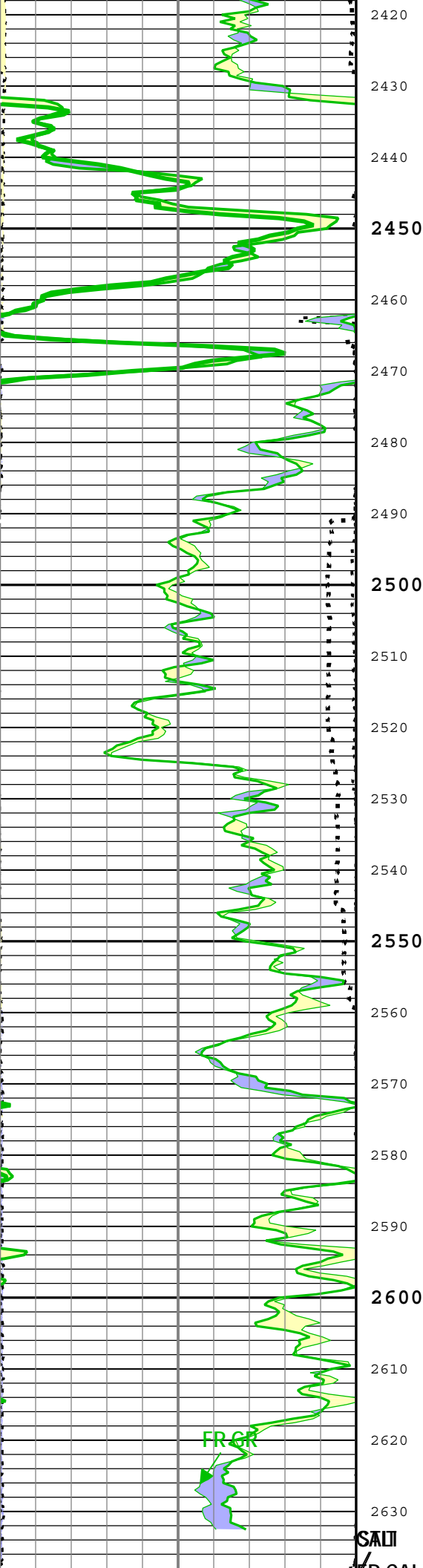
Pass Summary								
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run1d	Log[2]:Up	Up	2349.47 ft	2669.57 ft	17-Dec-2013 4:39:36 PM	17-Dec-2013 4:45:11 PM	0.26 ft	
Run1d	Log[3]:Up	Up	311.83 ft	2669.44 ft	17-Dec-2013 4:52:46 PM	17-Dec-2013 5:33:08 PM	0.00 ft	

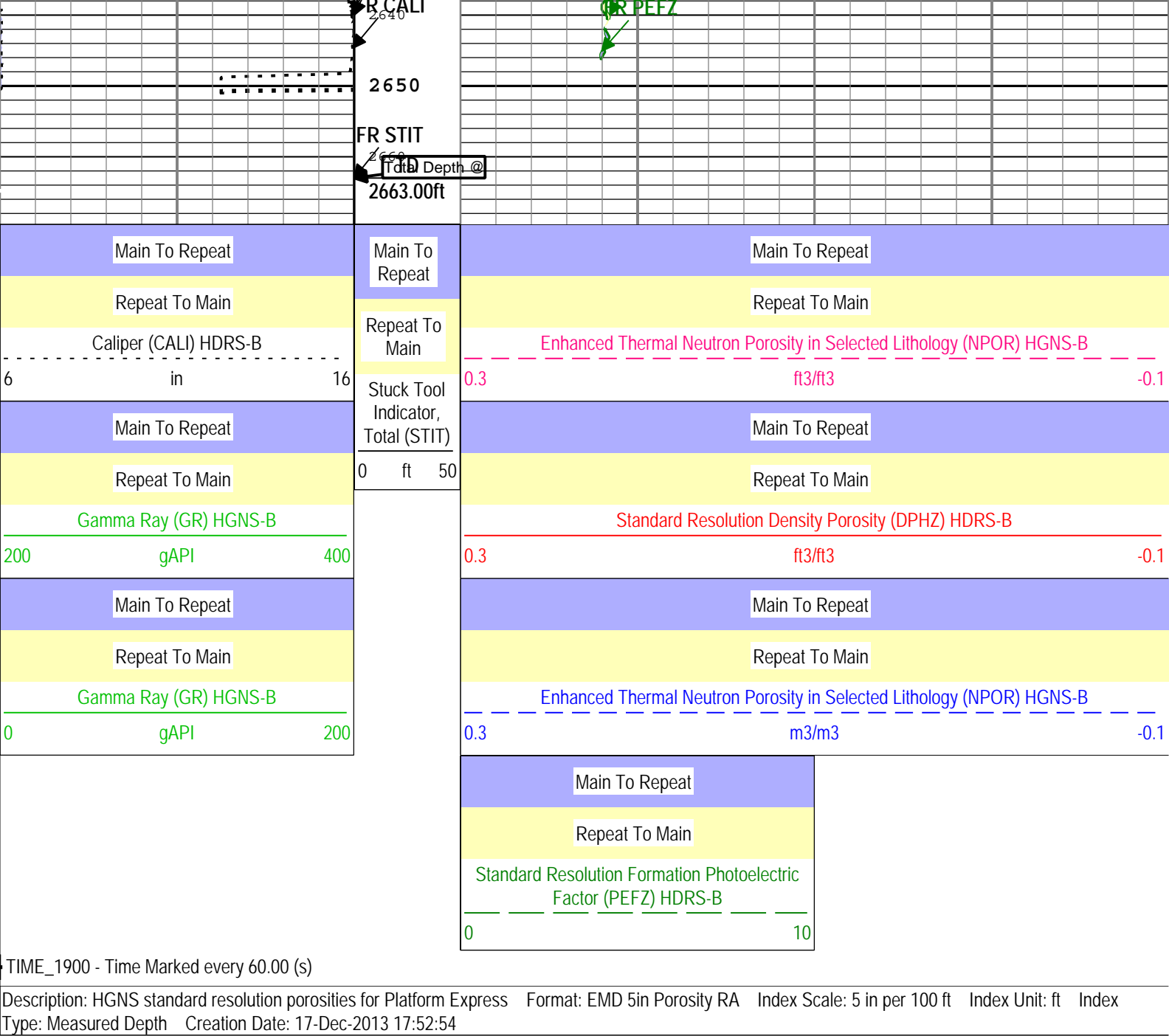
All depths are referenced to toolstring zero								
Log		Run1d: Log[3]:Up						

Description: HGNS standard resolution porosities for Platform Express			Format: EMD 5in Porosity RA	Index Scale: 5 in per 100 ft	Index Unit: ft	Index Type: Measured Depth
Creation Date: 17-Dec-2013 17:52:54						
Channel	Source	Sampling				
TIME_1900	WLWorkflow	0.1in				
TIME_1900 - Time Marked every 60.00 (s)						

			Main To Repeat					
			Repeat Time					







Run1d				
5" Density				
Integration Summary				
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
Software Version				
Acquisition System		Version		
MaxWell		3.1.9755.0		
Application Patch		SP-20130325-3.1.9755.1799		
		EXP_APL-AIT-3.1.9755.1975		
		EXP_APL-PPCEXT-3.1.9755.2022		
		EXP_APL-MASTCustWF-3.1.9755.2031		
		EXP_APL-MSCT-3.1.9755.1991		
Computation	Description			Version
DepthCorrection	DepthCorrection			3.1.9755.1799

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run1d	Log[3]:Up	Up	311.83 ft	2669.44 ft	17-Dec-2013 4:52:46 PM	17-Dec-2013 5:33:08 PM	0.00 ft	

All depths are referenced to toolstring zero

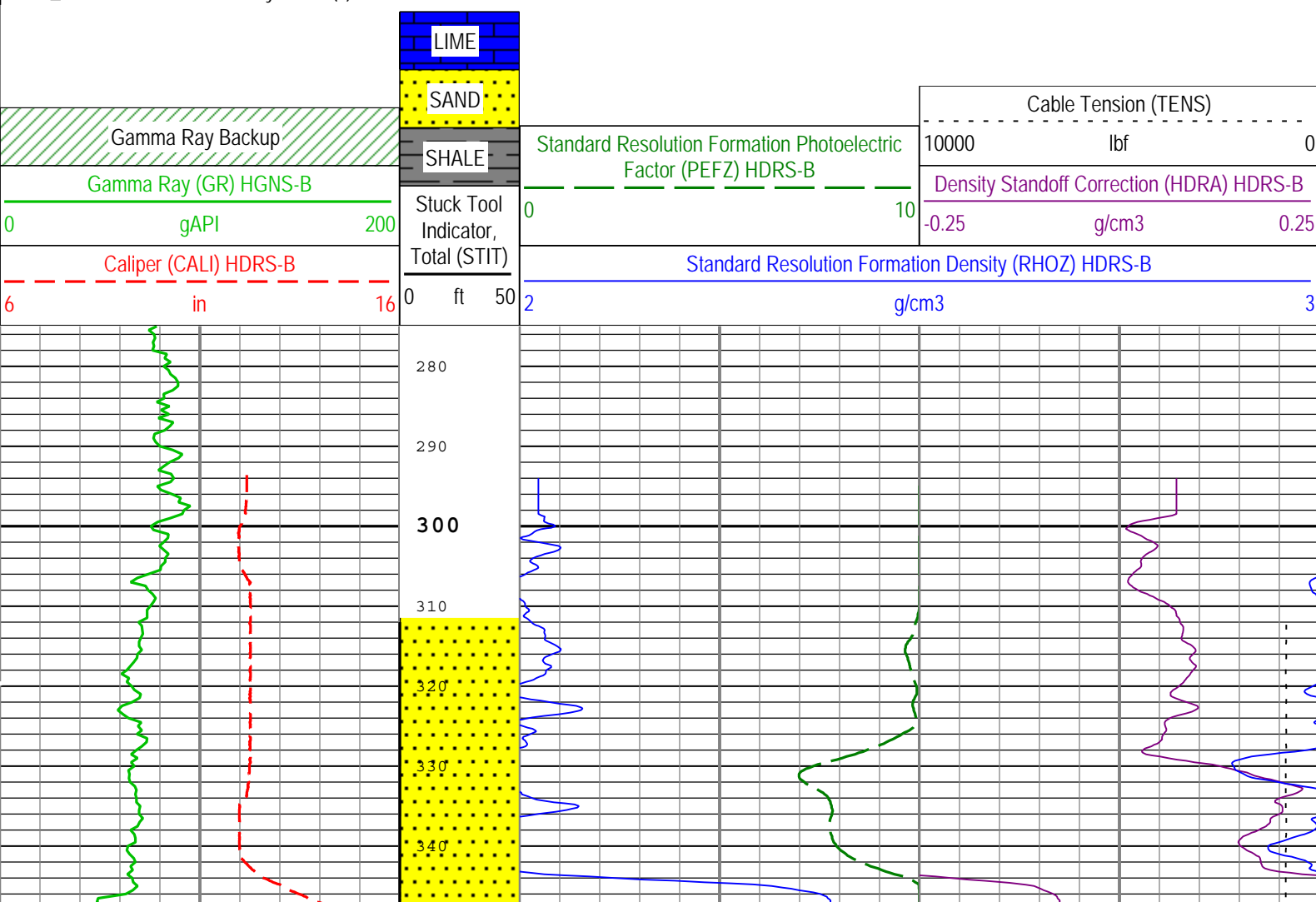
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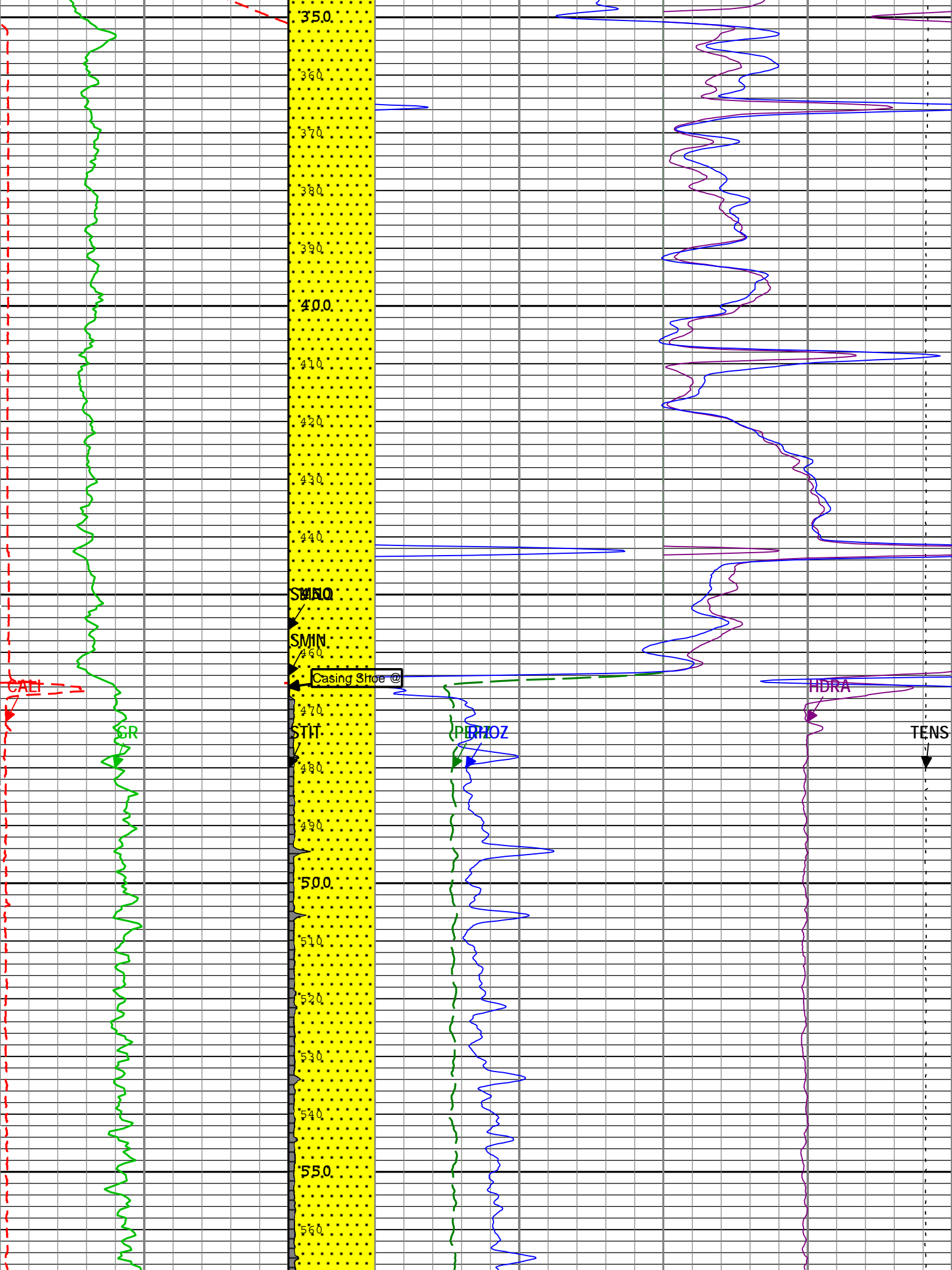
Run1d: Log[3]:Up

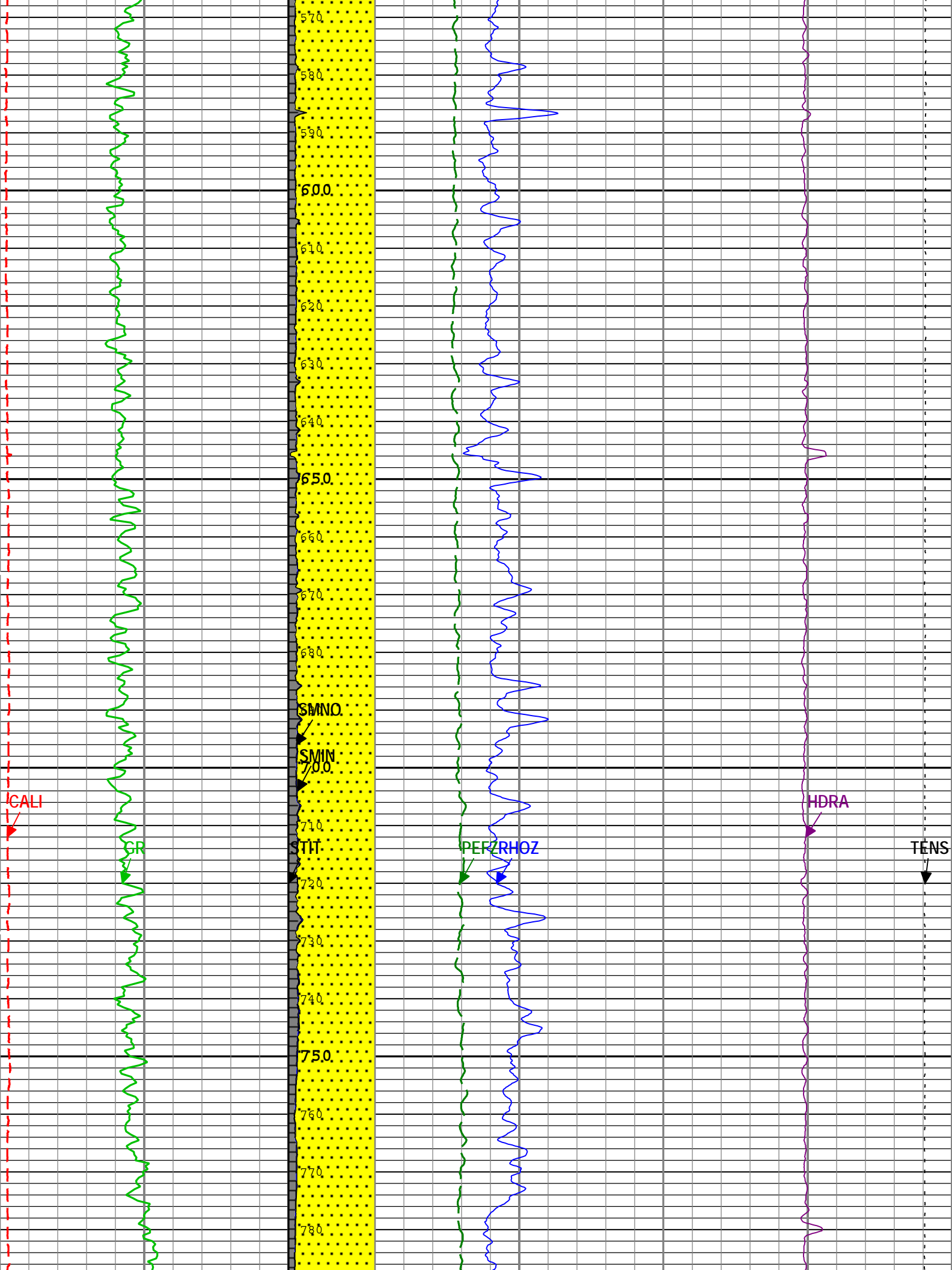
Description: HGNS standard resolution porosities for Platform Express    Format: Log ( EMD 5in Density )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 17-Dec-2013 17:52:55

Channel	Source	Sampling
CALI	HDRS-B:HRCC-B:HRCC-B	1in
GR	HGNS-B:HGNS-B:HGNS-B	6in
HDRA	HDRS-B:HRMS-B:HRGD-B	2in
PEFZ	HDRS-B:HRMS-B:HRGD-B	2in
RHOZ	HDRS-B:HRMS-B:HRGD-B	2in
SMIN	HDRS-B:HRMS-B:HRGD-B	2in
SMNO	HDRS-B:HRMS-B:HRGD-B	2in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

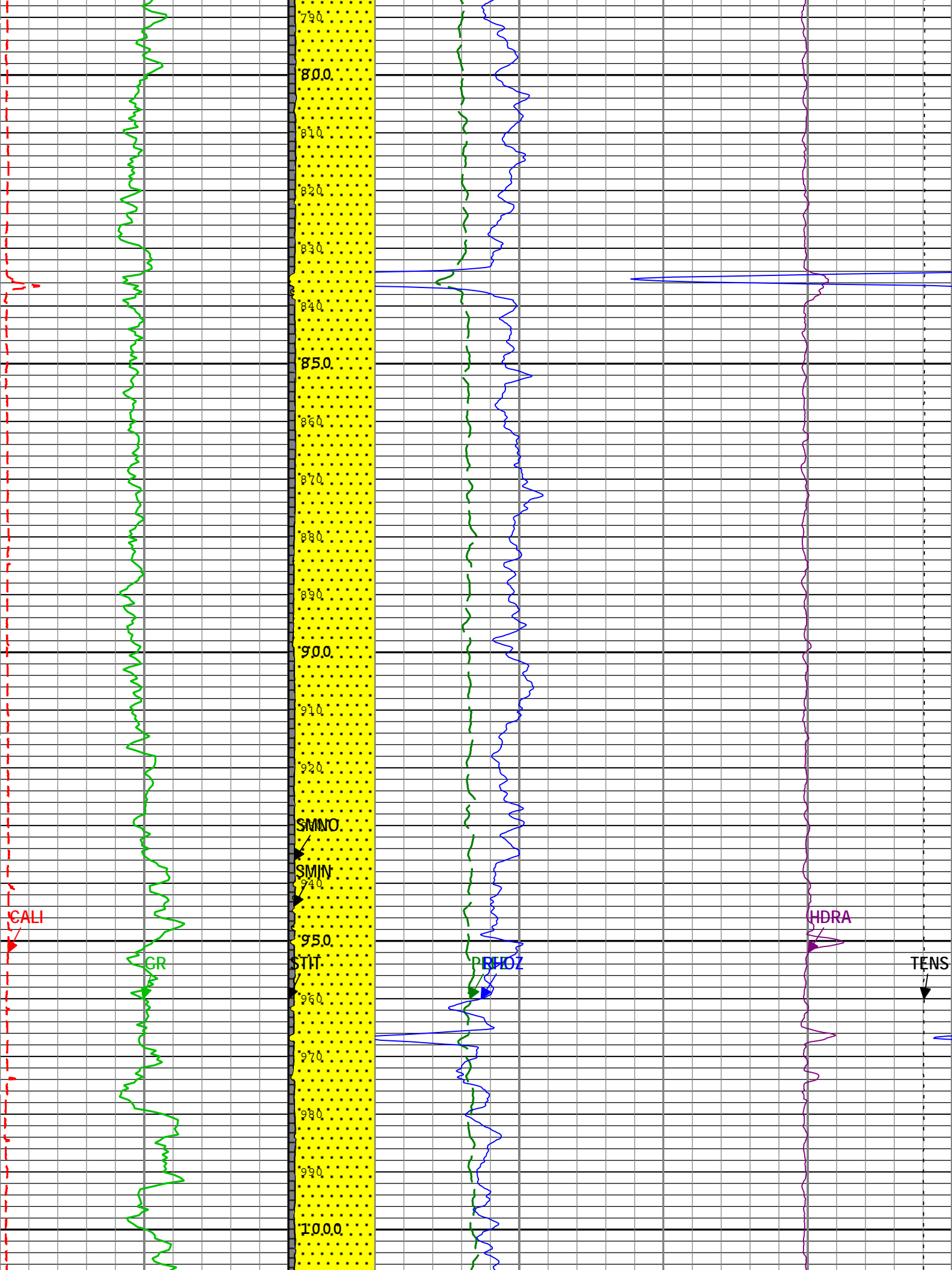
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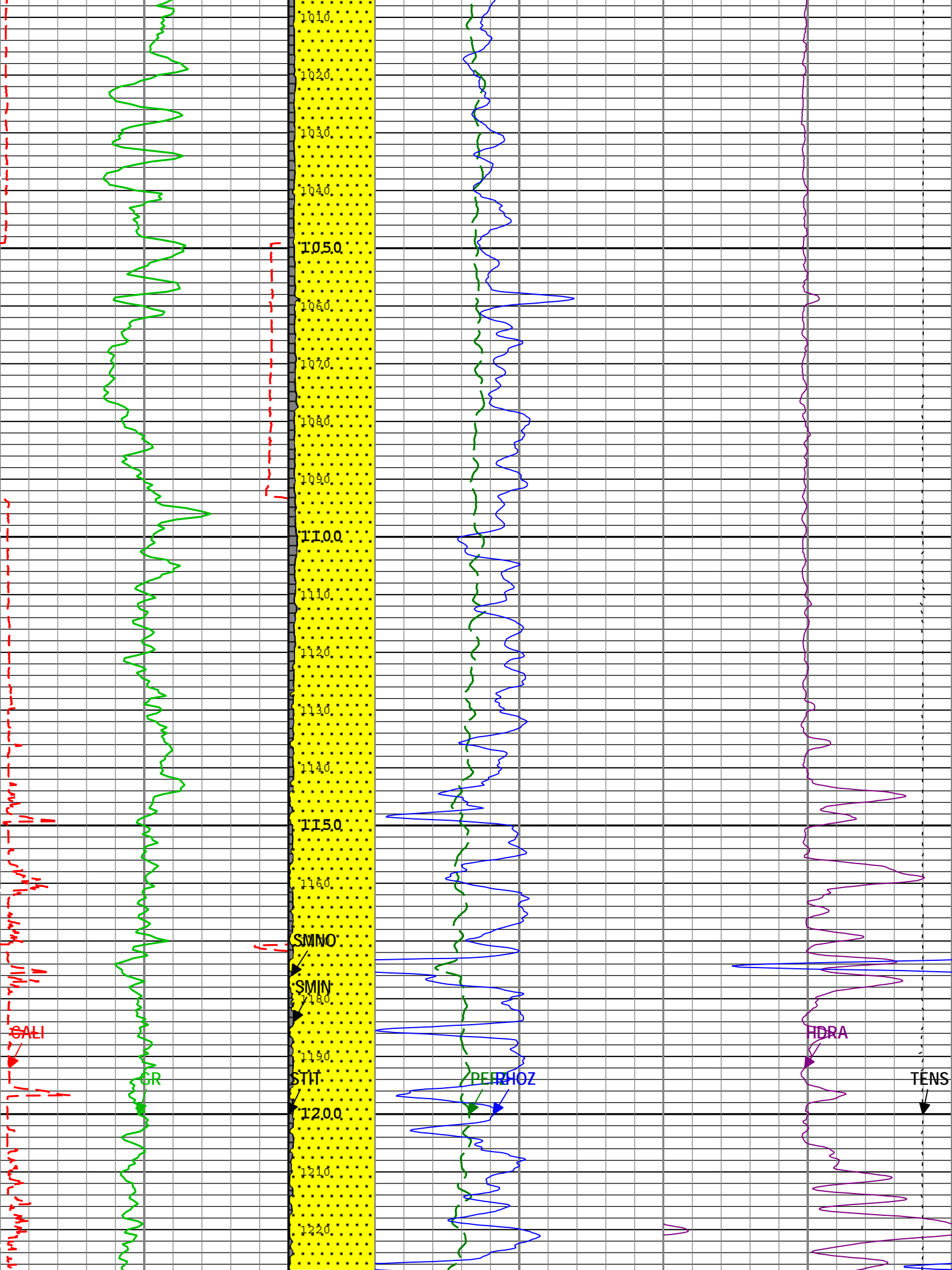


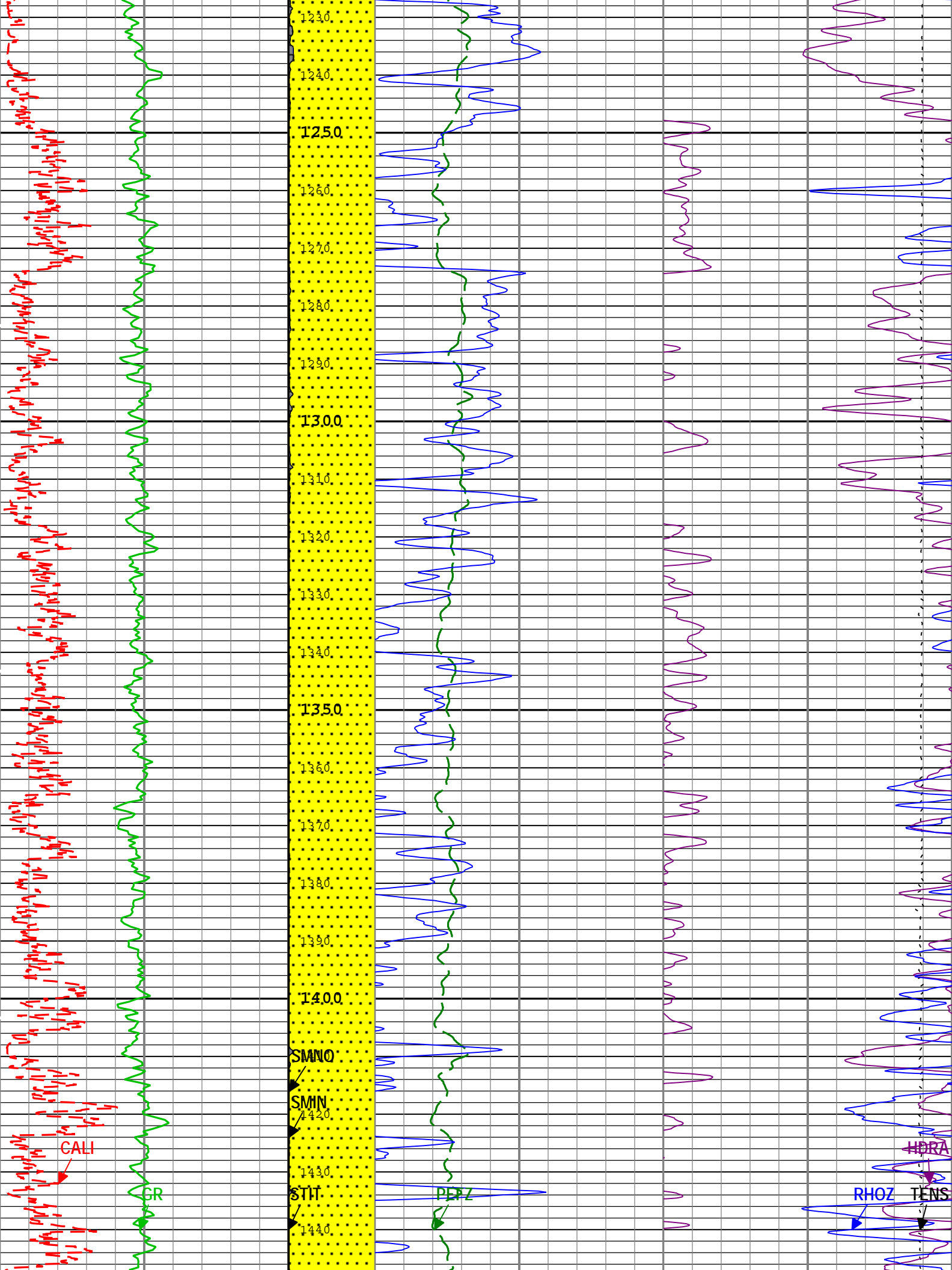


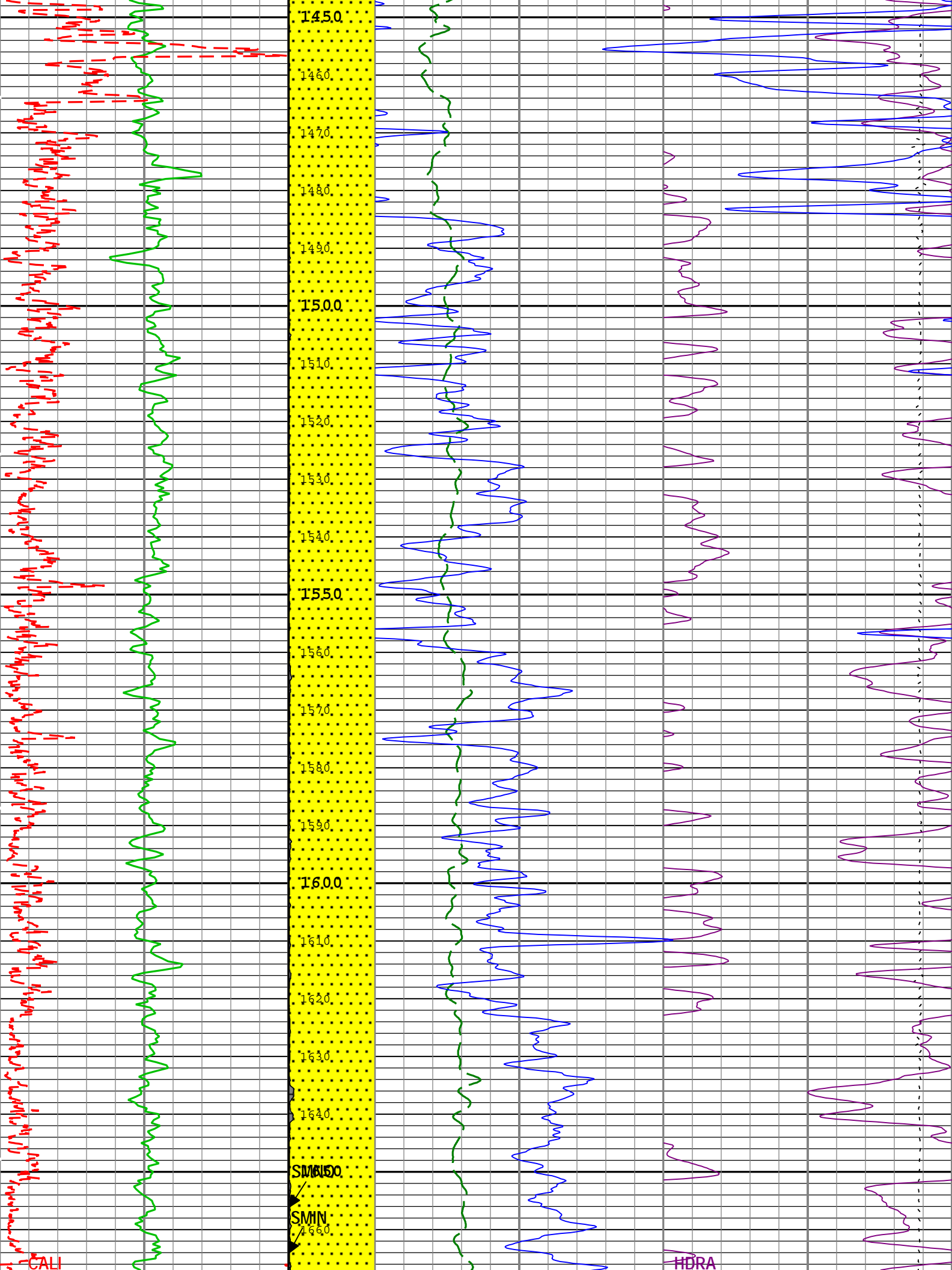


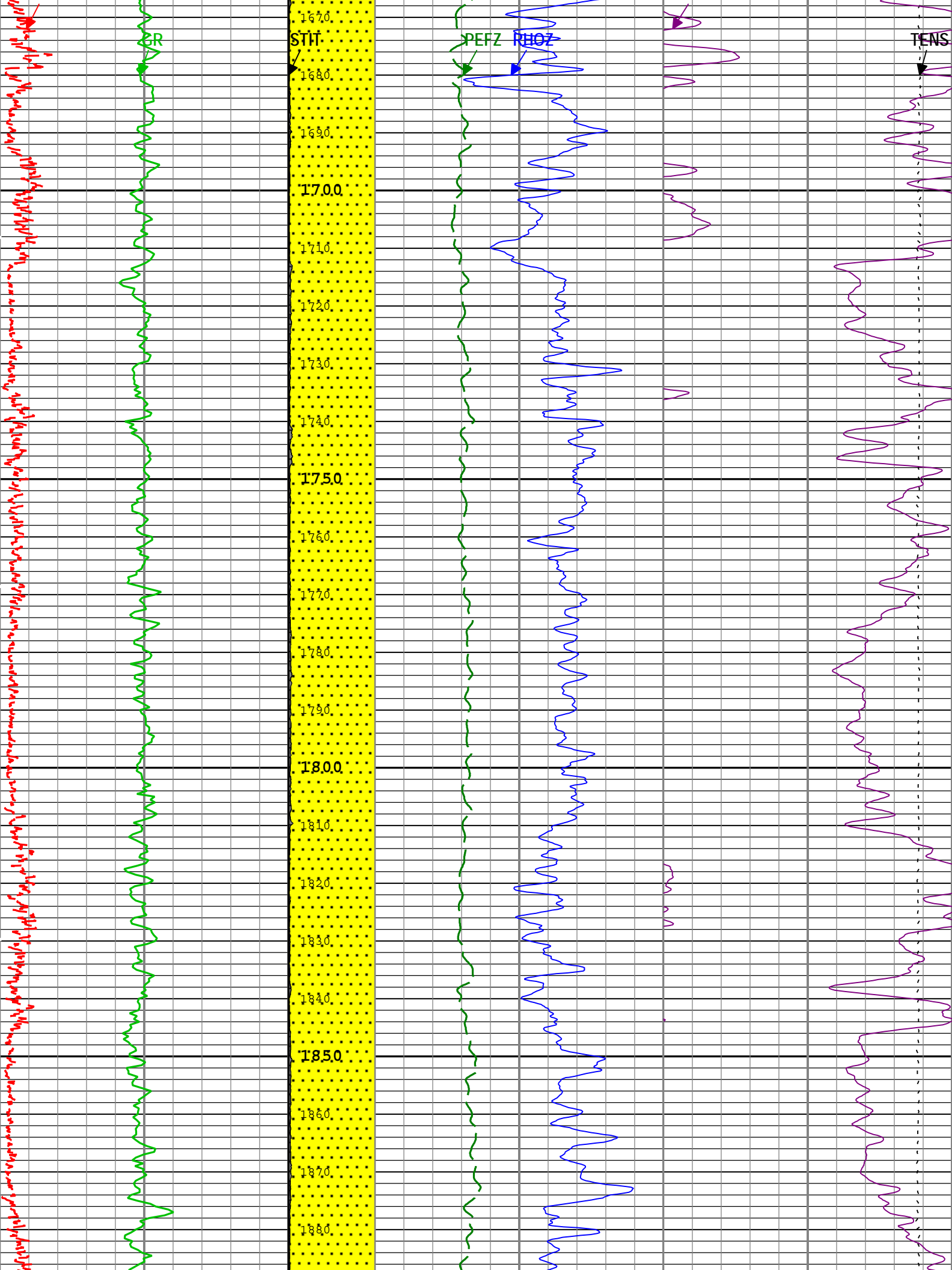


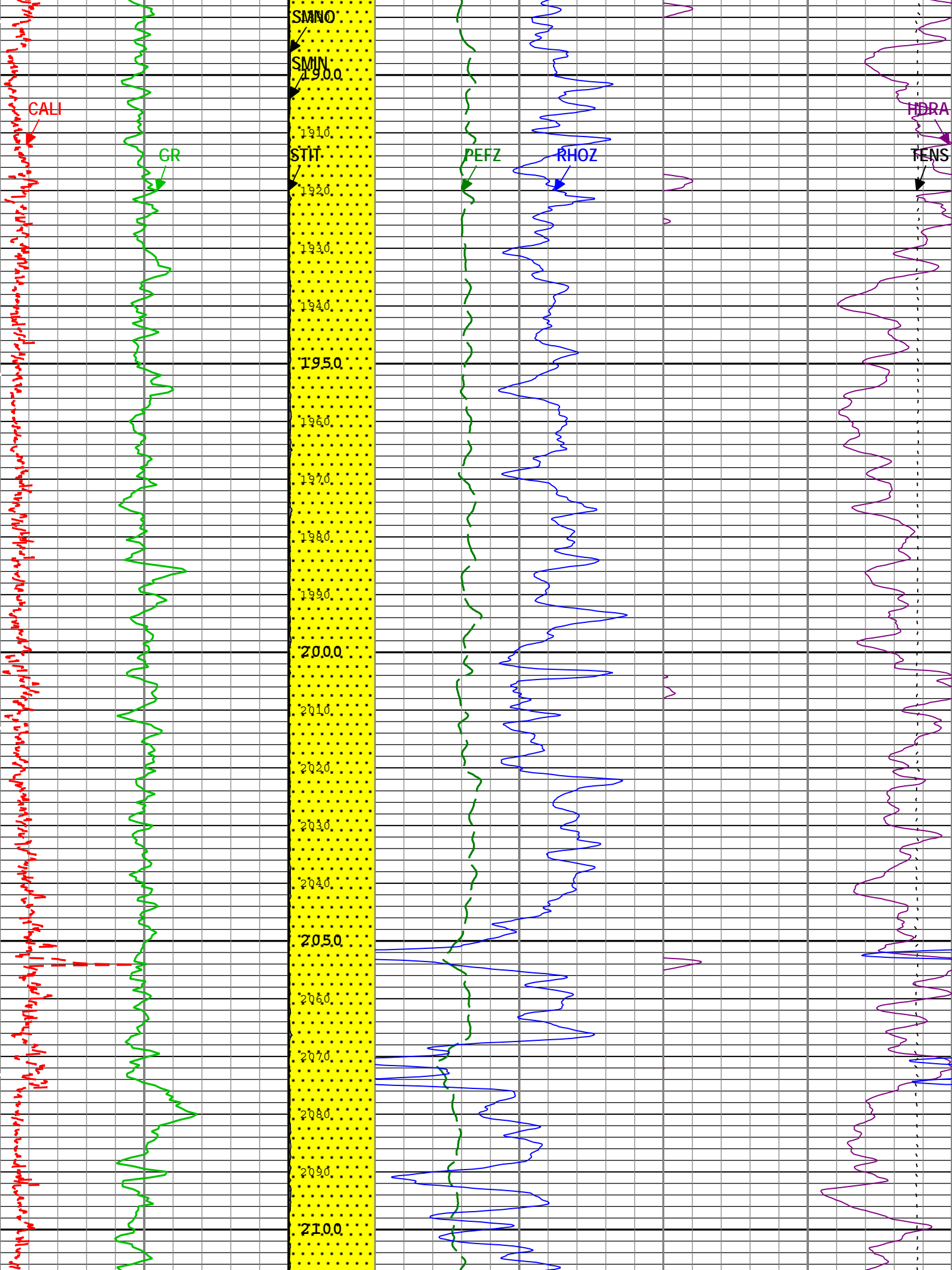


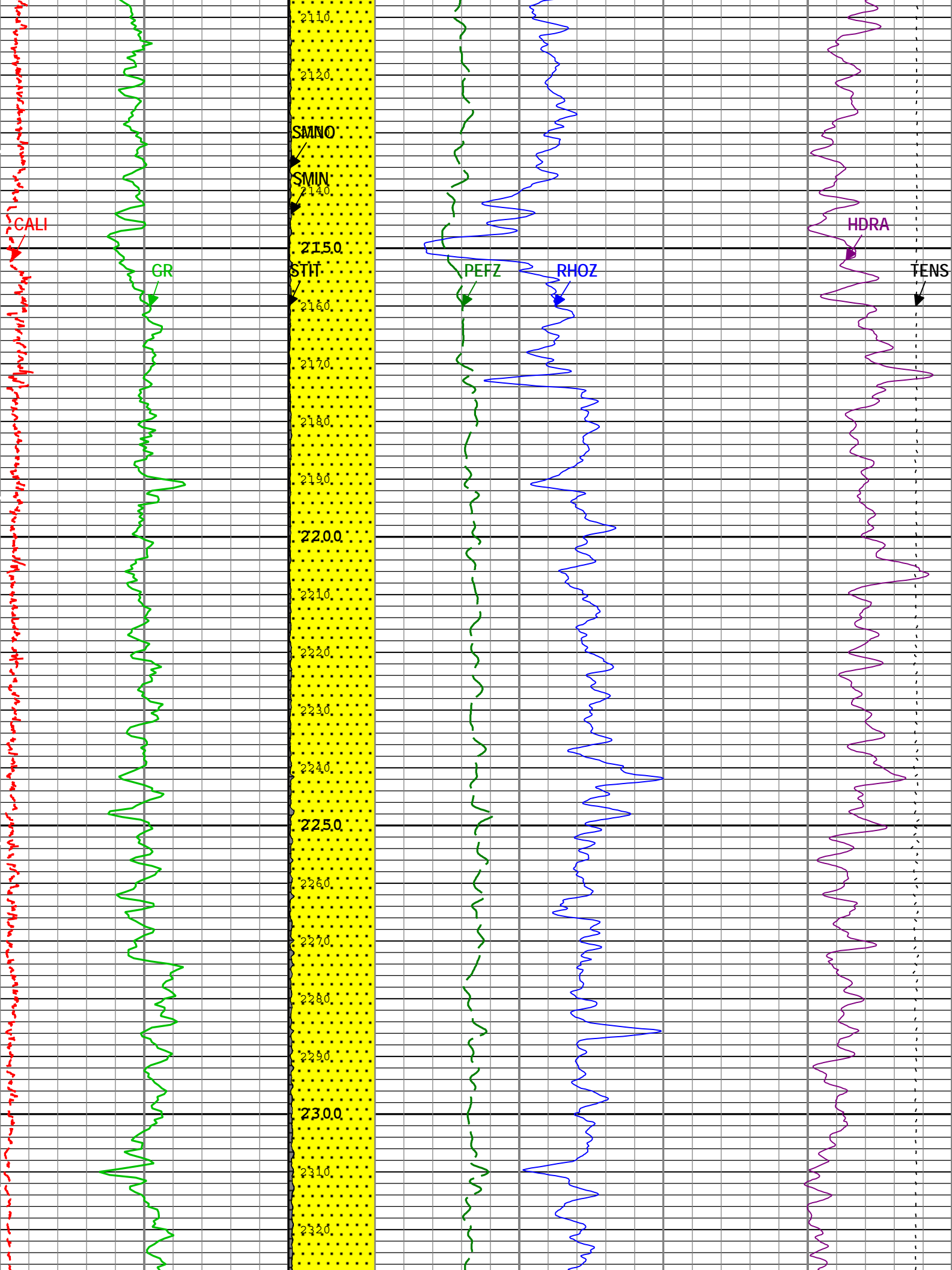


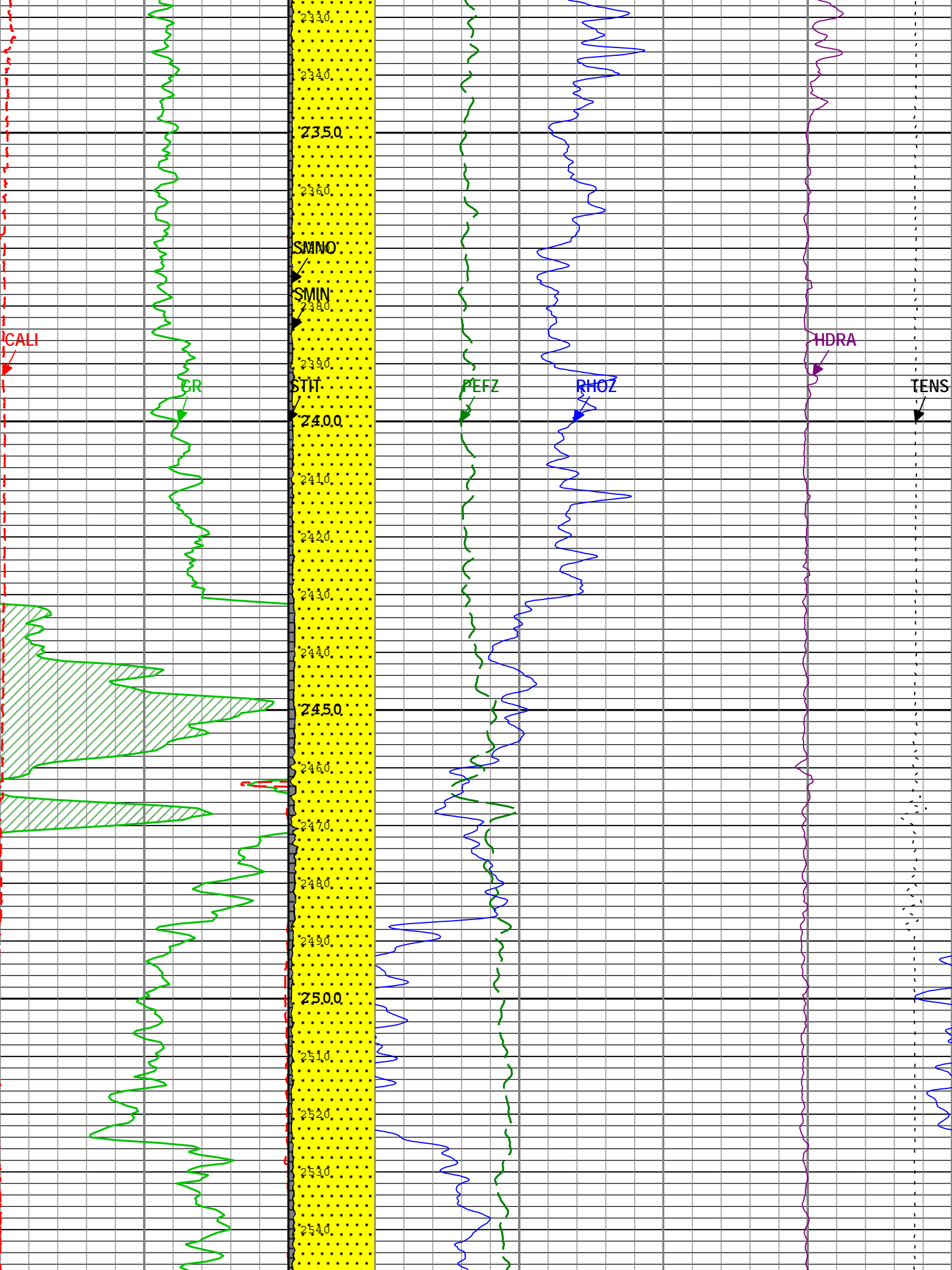




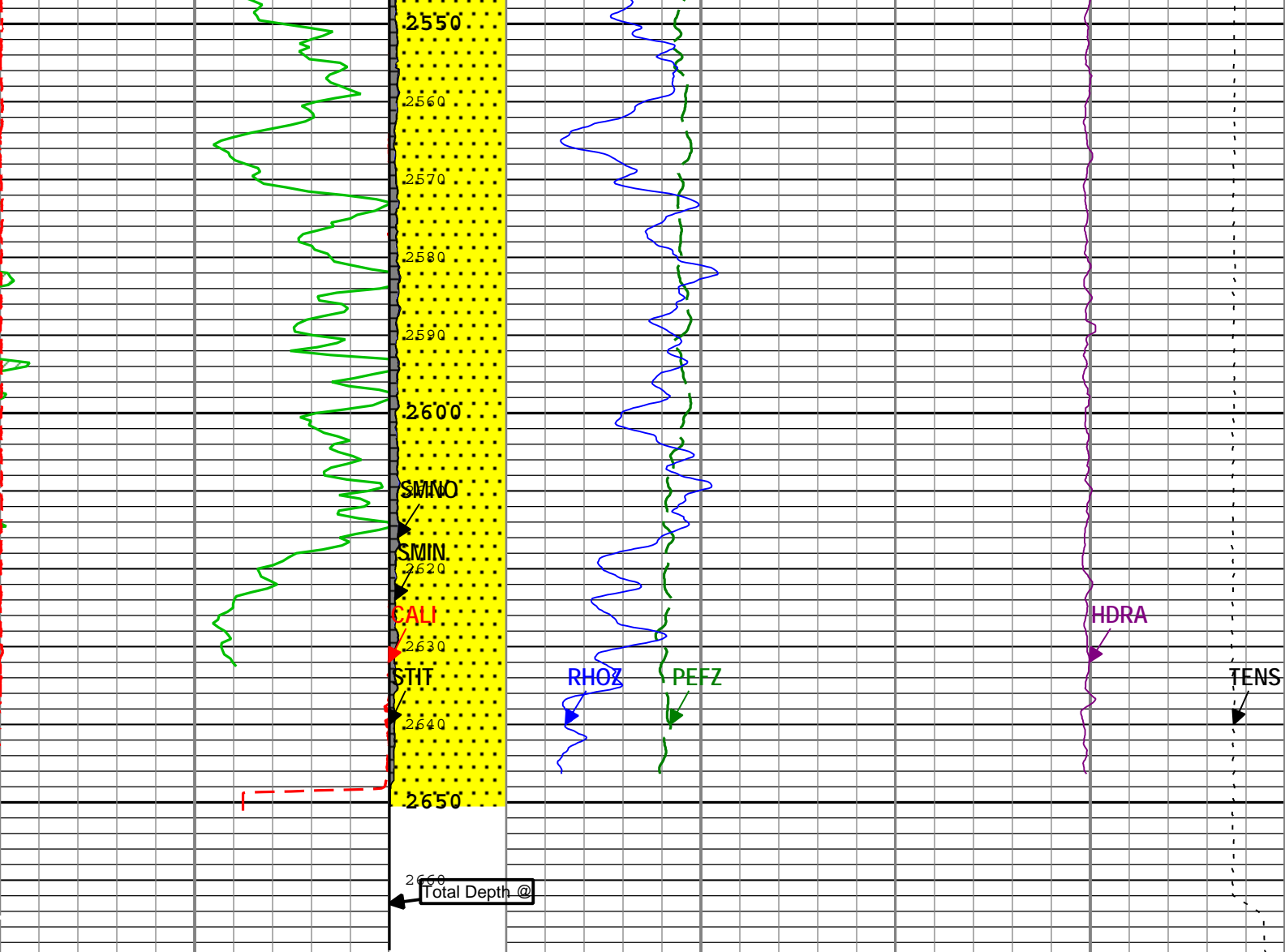












Gamma Ray Backup	LIME	Standard Resolution Formation Density (RHOZ) HDRS-B		
Gamma Ray (GR) HGNS-B	SAND	2	g/cm3	3
Caliper (CALI) HDRS-B	SHALE	Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-B		
0	0	10000	lb	0
6	10	Density Standoff Correction (HDRA) HDRS-B		
16	0	-0.25	g/cm3	0.25
Stuck Tool Indicator, Total (STIT)	0	ft	50	

TIME\_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log ( EMD 5in Density ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 17-Dec-2013 17:52:55

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BARI	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-B	-0.18	in
CBLO	Casing Bottom (Logger)	WLSESSION	455	ft
CDEN	Cement Density	HGNS-B	2	g/cm3
DFD	Drilling Fluid Density	Borehole	8.8	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	

DHC	Density Hole Correction	HDRS-B	Bit Size	
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	
SOCO	Standoff Correction Option	HGNS-B	Yes	
TD	Total Measured Depth	Borehole	2663	ft

Depth Zone Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	0	275	455
BS	6.25	455	2669.5

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
HRGD_BRD_TYPE	HRGD Board Type	HDRS-B	WITHOUT_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h
STSO_HRDD	Temperature Source for the Density Algorithm	HDRS-B	Decaytime algorithm	

Company:

Omimex Petroleum Inc

Schlumberger

Well:

Bledsoe 10-3-5-45

Field:

Ballyneal

County:

Yuma

Country:

USA

Platform Express

Compensated Neutron Log

LithoDensity