

Company: Omimex Petroleum Inc.

Well: Bledsoe 12-6-5-44

Field: Ballyneal

County: Yuma State: Colorado

Platform Express

Compensated Neutron Log

LithoDensity

County:	Yuma			
Field:	Ballyneal			
Location:	Sec. 6, Twp. 5N, Rng. 44W			
Well:	Bledsoe 12-6-5-44			
Company:	Omimex Petroleum Inc.			
Location:		Sec. 6, Twp. 5N, Rng. 44W	Elev.	K.B.
		FSL 1981' x FWL 861'		G.L.
		Lat: 40.430400, Long: -102.317290		D.F.
		Permanent Datum:	Ground Level	Elev.: 3753.50 f
		Log Measured From:	Kelly Bushing	6.00 ft above Perm.Datum
		Drilling Measured From:	Kelly Bushing	
		API Serial No.	Section:	Township:
		05-125-11965-0000	6	5N
				Range: 44W

Logging Date 27-Jan-2013

Run Number Run 1

Depth Driller 2637.00 ft

Schlumberger Depth 2632.00 ft

Bottom Log Interval 2632.00 ft

Top Log Interval 472.00 ft

Casing Driller Size @ Depth 7 in @ 462.00 ft

Casing Schlumberger 472 ft

Bit Size 6.25 in

Type Fluid In Hole Fresh Water

Density 8.6 lbm/gal

Fluid Loss PH 32 s

Source of Sample Active Tank

RM @ Meas Temp 0.19 ohm.m @ 74.6 degF

RMF @ Meas Temp 0.14 ohm.m @ 74.6 degF

RMC @ Meas Temp 0.24 ohm.m @ 74.6 degF

Source RMF RMC Calculated Calculated

RM @ BHT RMF @ BHT 0.07 @ 212 0.05 @ 212

Max Recorded Temperatures 108 degF

Circulation Stopped 28-Jan-2013 11:15:00

Logger on Bottom 28-Jan-2013 14:50:29

Unit Number 3030 Location: Fort Morgan, CO

Recorded By Arvin Shi/Max Pace

Witnessed By Paul Dekaye

Disclaimer

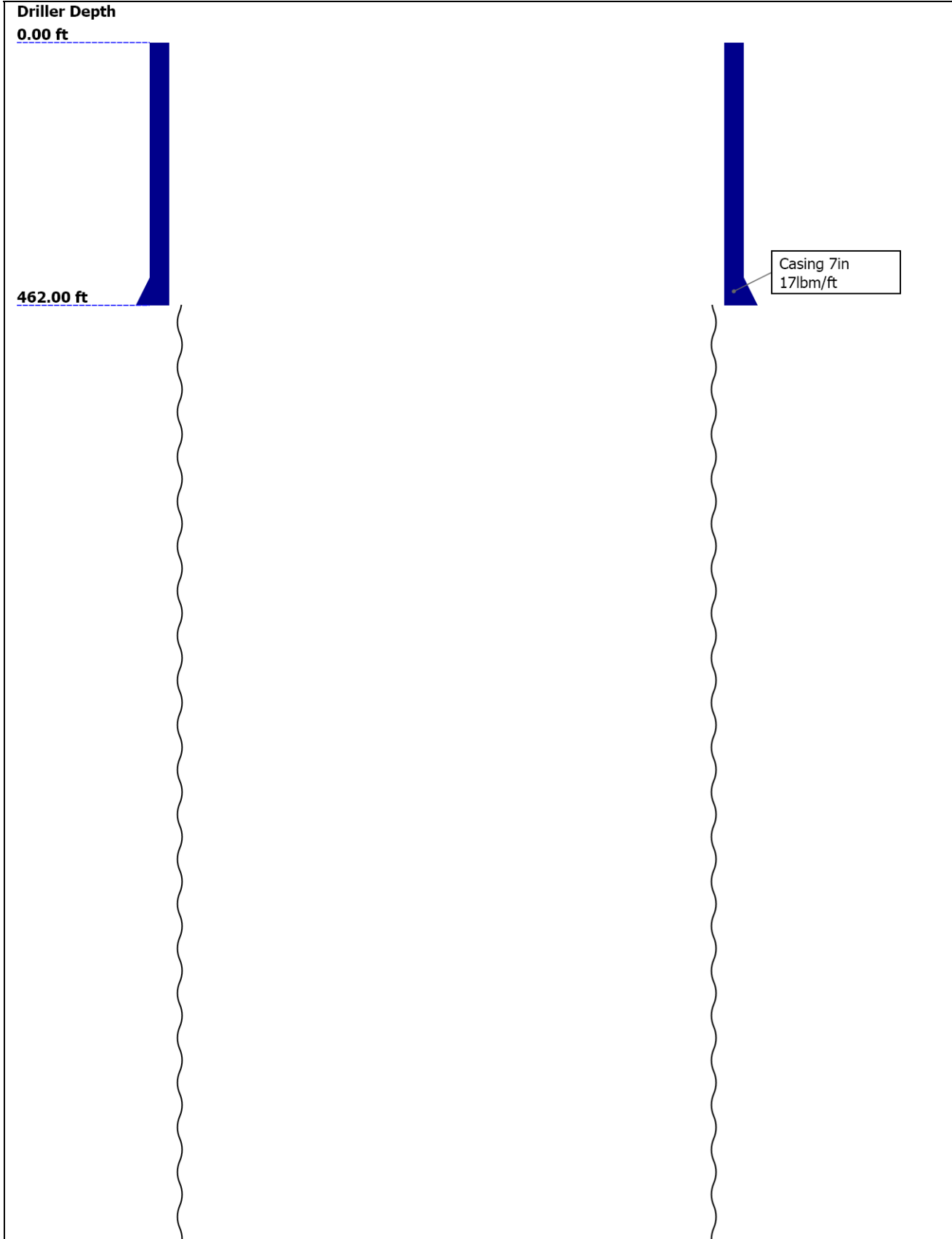
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Well Sketch



2637.00 ft

Open Hole 6.25in

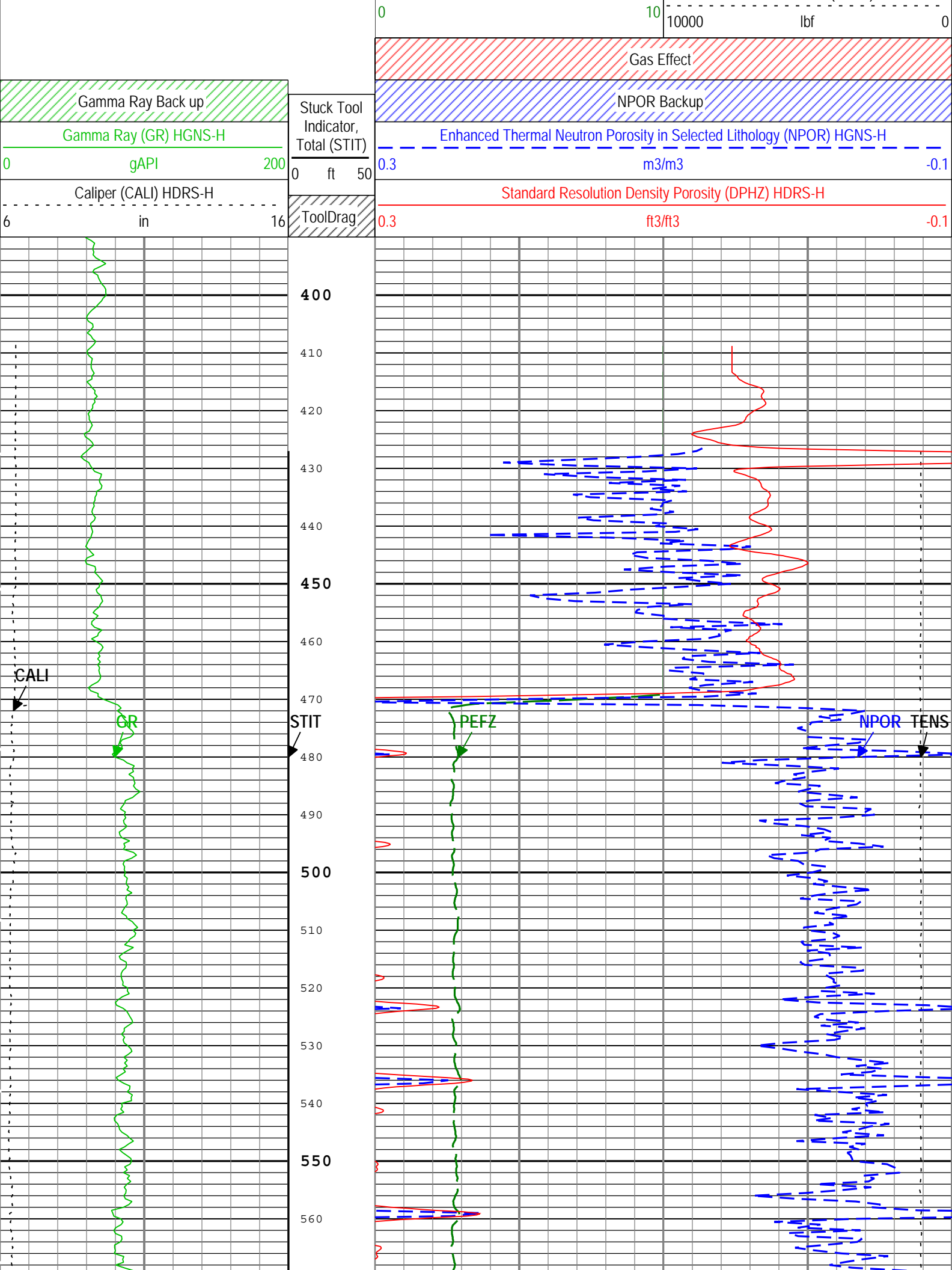
Borehole Size/Casing/Tubing Record

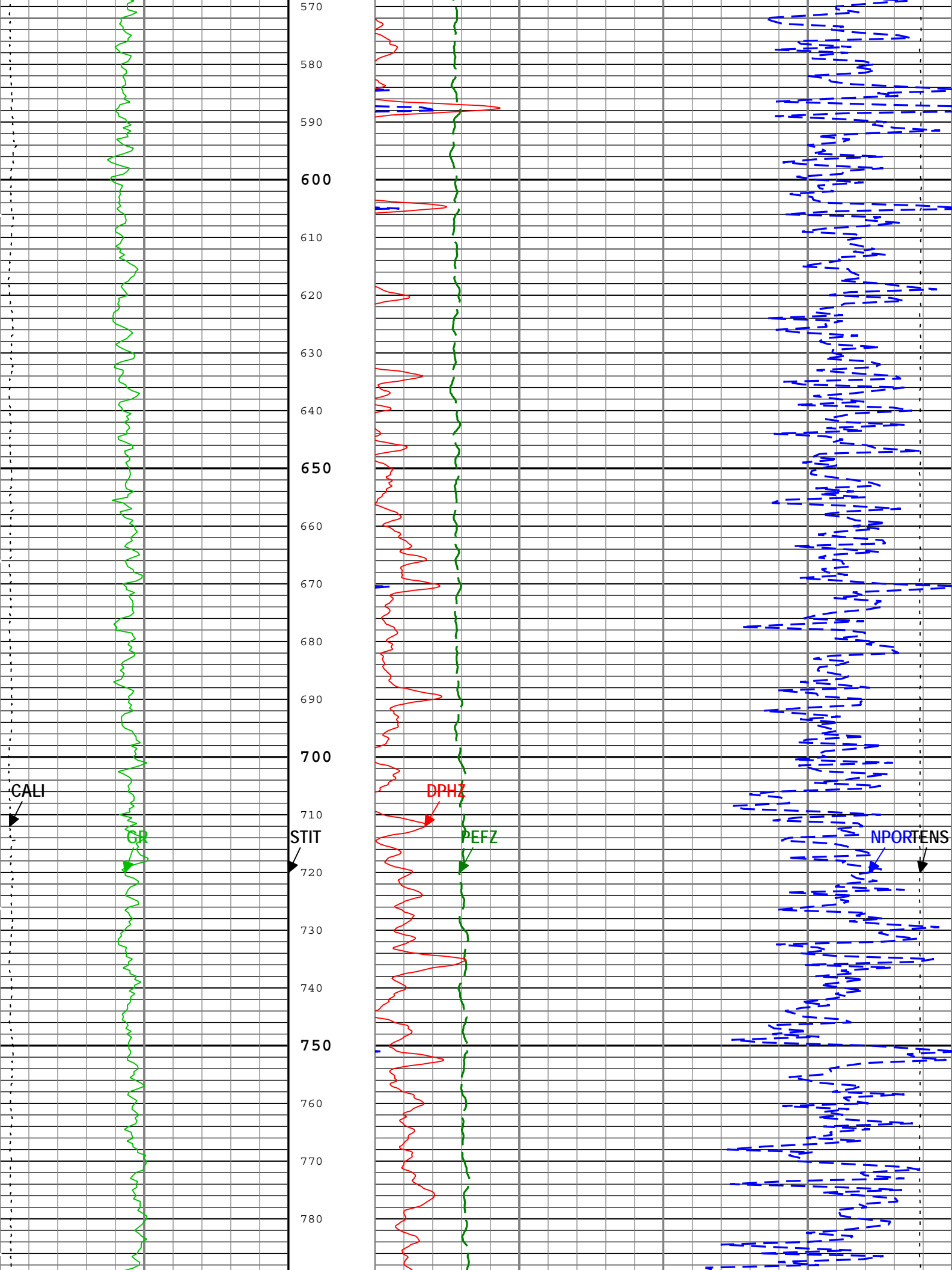
Bit						
Bit Size (in)	6.25					
Top Driller (ft)	462					
Top Logger (ft)	462					
Bottom Driller (ft)	2637					
Bottom Logger (ft)	2632					
Casing						
Size (in)	7					
Weight (lbm/ft)	17					
Inner Diameter (in)	6.54					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	462					
Bottom Logger (ft)	472					

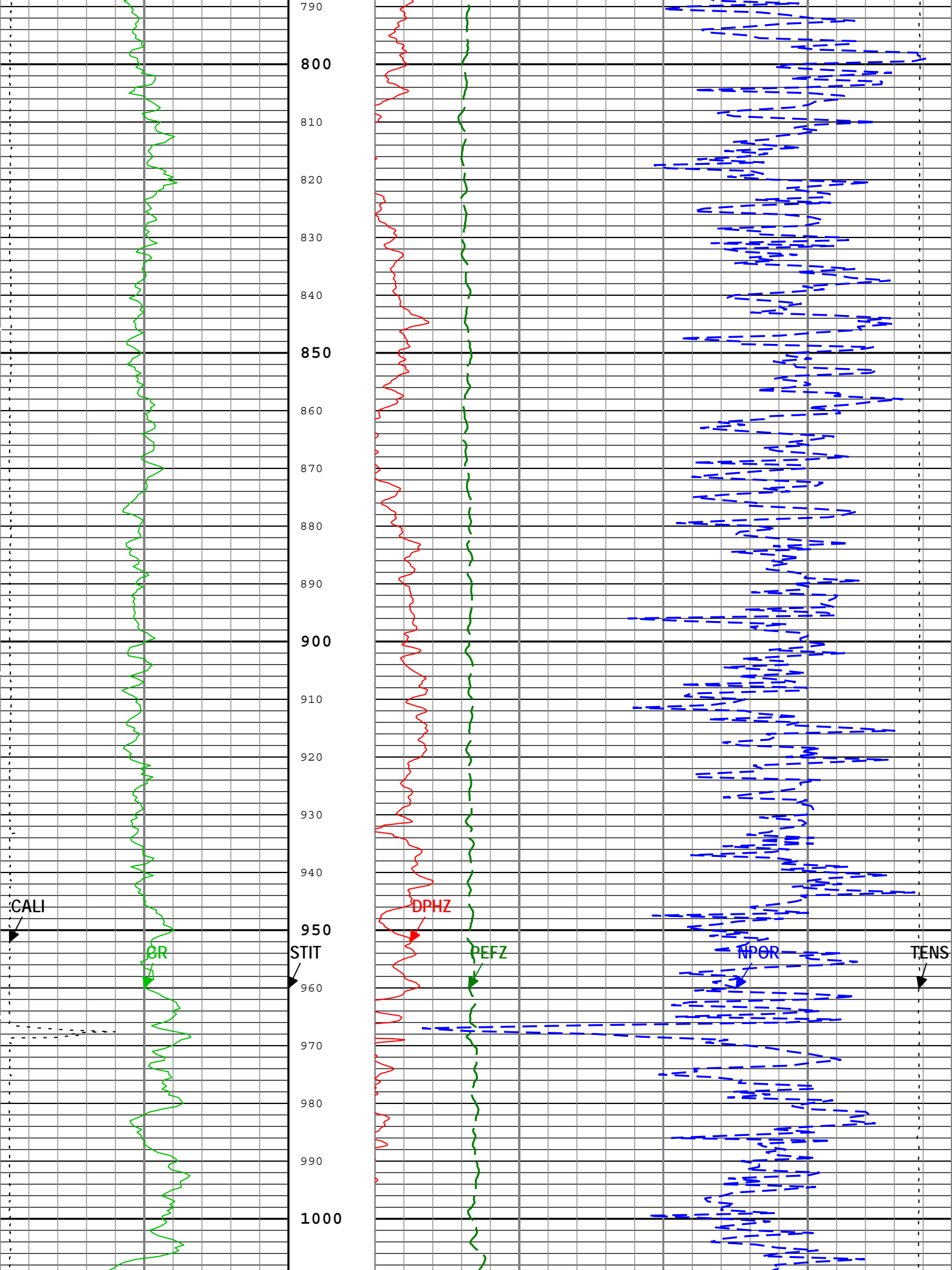
Remarks and Equipment Summary

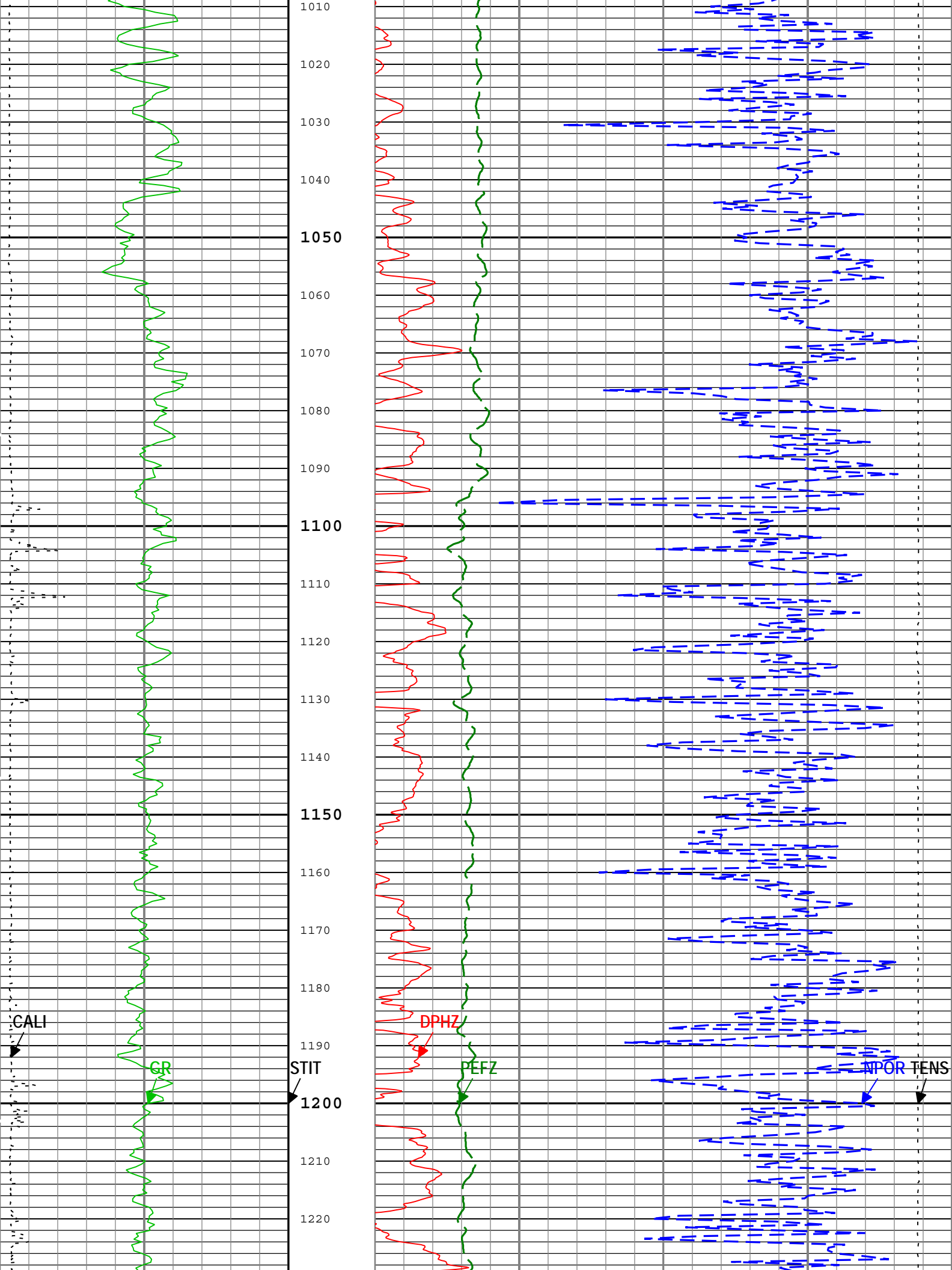
Run 1: Toolstring				Run 1: Remarks	
Equip name	Length	MP name	Offset		
LEH-QT	55.57				
LEH-QT					
EDTC-B	52.65				
EDTH-B					
EDTG-A					
EDTC-B					
		CTEM	49.15		
		ACCZ	0.00		
		HV	0.00		
		Gamma Ray	47.28		
		TelStatus	46.15		
A adaptor_Head	46.15				
GPIT-F:1881	41.65				
GPIH-B					
GPIC-F:1881		GPIT-F Incl	40.23		
DHRU-F		inometer			
		GPIT	0.00		
HGNS-H:4779	37.65	Temperatur	37.62		
HGNS-H:2826					

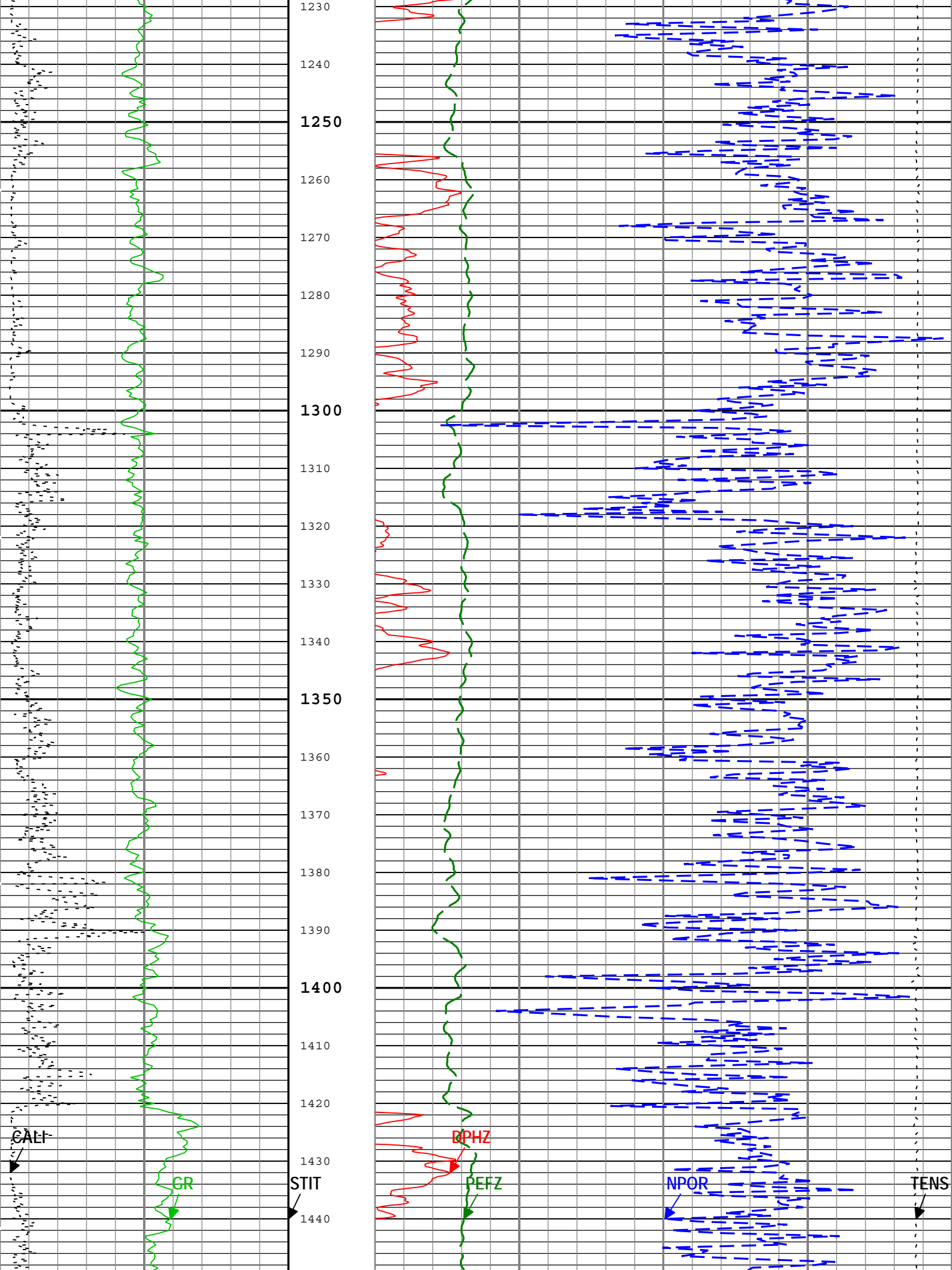
Depth Measuring Device		Run 1						
Type		IDW-B						
Wheel Correction 1		1						
Wheel Correction 2		0						
Tension Device		Run 1						
Type		CMTD-B/A						
Calibration Points		0						
Logging Cable		Run 1						
Type		7-46NT-XS						
Logging Cable Length (ft)		24000.00						
Run 1								
Integration Summary								
Output Channel(s)	Output Description		Input Parameter		Output Value		Unit	
Software Version								
Acquisition System				Version				
MaxWell				3.1.9755.0				
Application Patch				SP-20120723-3.1.9755.1112				
				EXP_APL-MASTAXIS-3.1.9755.1221				
Computation	Description					Version		
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections					3.1.9755.0		
DepthCorrection	DepthCorrection					3.1.9755.0		
Tool Elements	Description			Software Version		Firmware Version		
HRCC-H	HILT High-Resolution Control Cartridge, 150 degC			3.1.9755.0		2.0		
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC			3.1.9755.0		2.0		
HRGD-H	HILT Resistivity Gamma-Ray Density Device, 150 degC			3.1.9755.0		3.0		
Pass Summary								
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run 1	Log[5]:Up	Up	426.63 ft	2640.71 ft	27-Jan-2013 2:50:49 PM	27-Jan-2013 3:32:02 PM	0.00 ft	
All depths are referenced to toolstring zero								
Log	Run 1: Log[5]:Up							
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: 27-Jan-2013 15:59:38								
Channel	Source		Sampling					
CALI	HDRS-H:HRCC-H:HRCC-H		1in					
DPHZ	HDRS-H:HRMS-H:HRGD-H		2in					
GR	HGNS-H:HGNS-H:HGNS-H		6in					
NPOR	HGNS-H:HGNS-H:HGNS-H		6in					
PEFZ	HDRS-H:HRMS-H:HRGD-H		2in					
STIT	DepthCorrection		6in					
TENS	WLWorkflow		6in					
TIME_1900	WLWorkflow		0.1in					
TIME_1900 - Time Marked every 60.00 (s)								
				Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H				
							Cable Tension (TENS)	

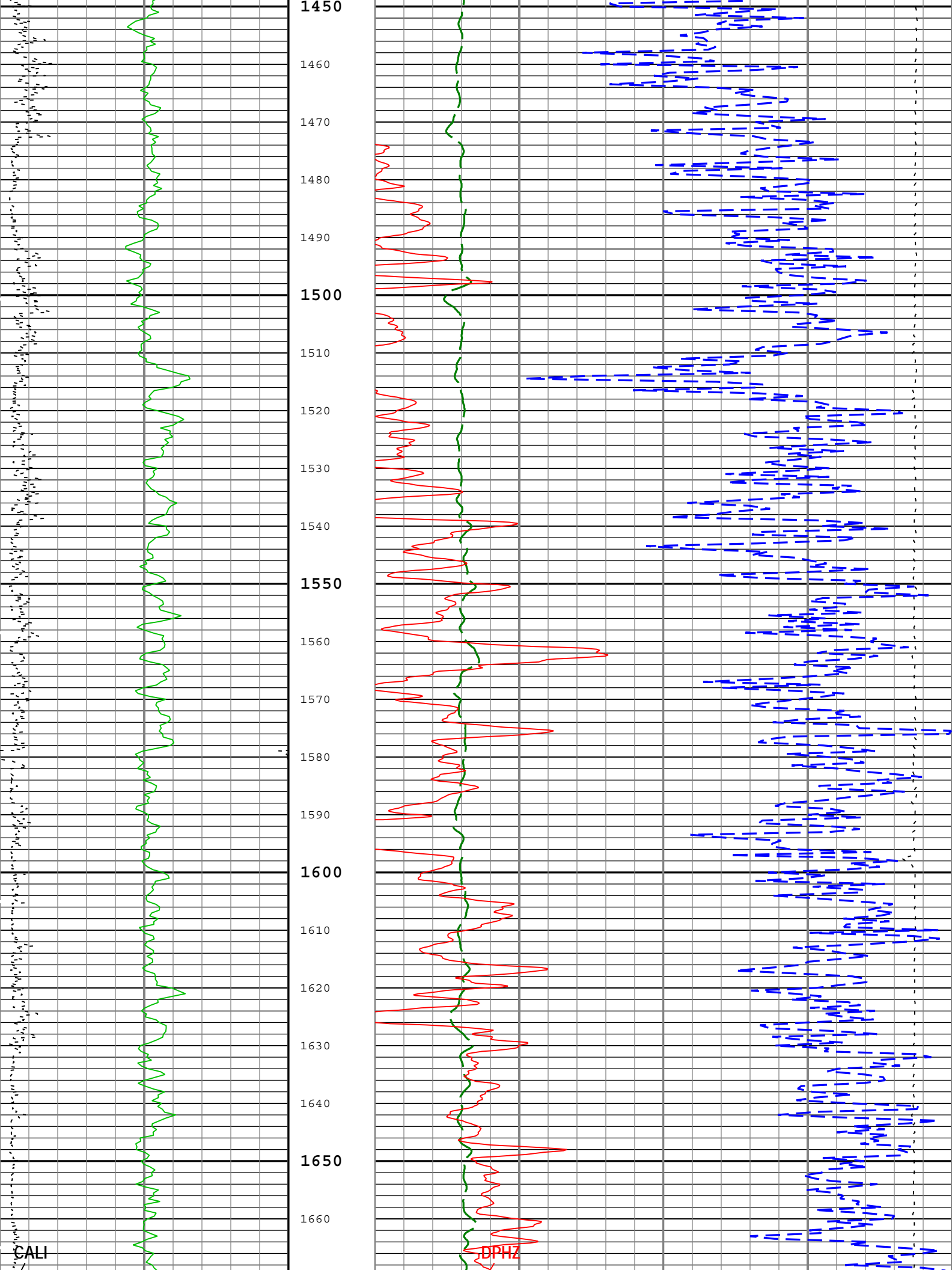


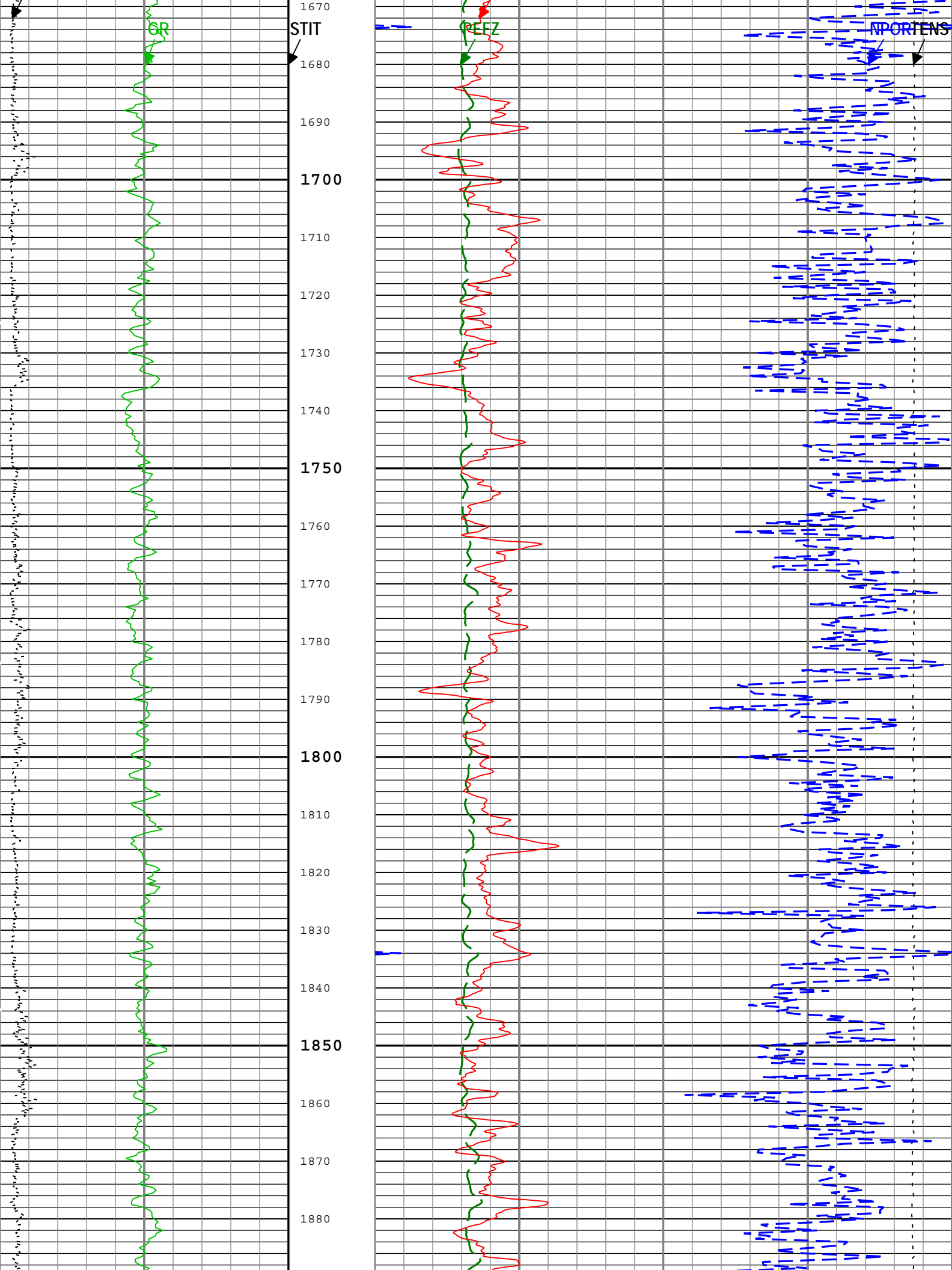


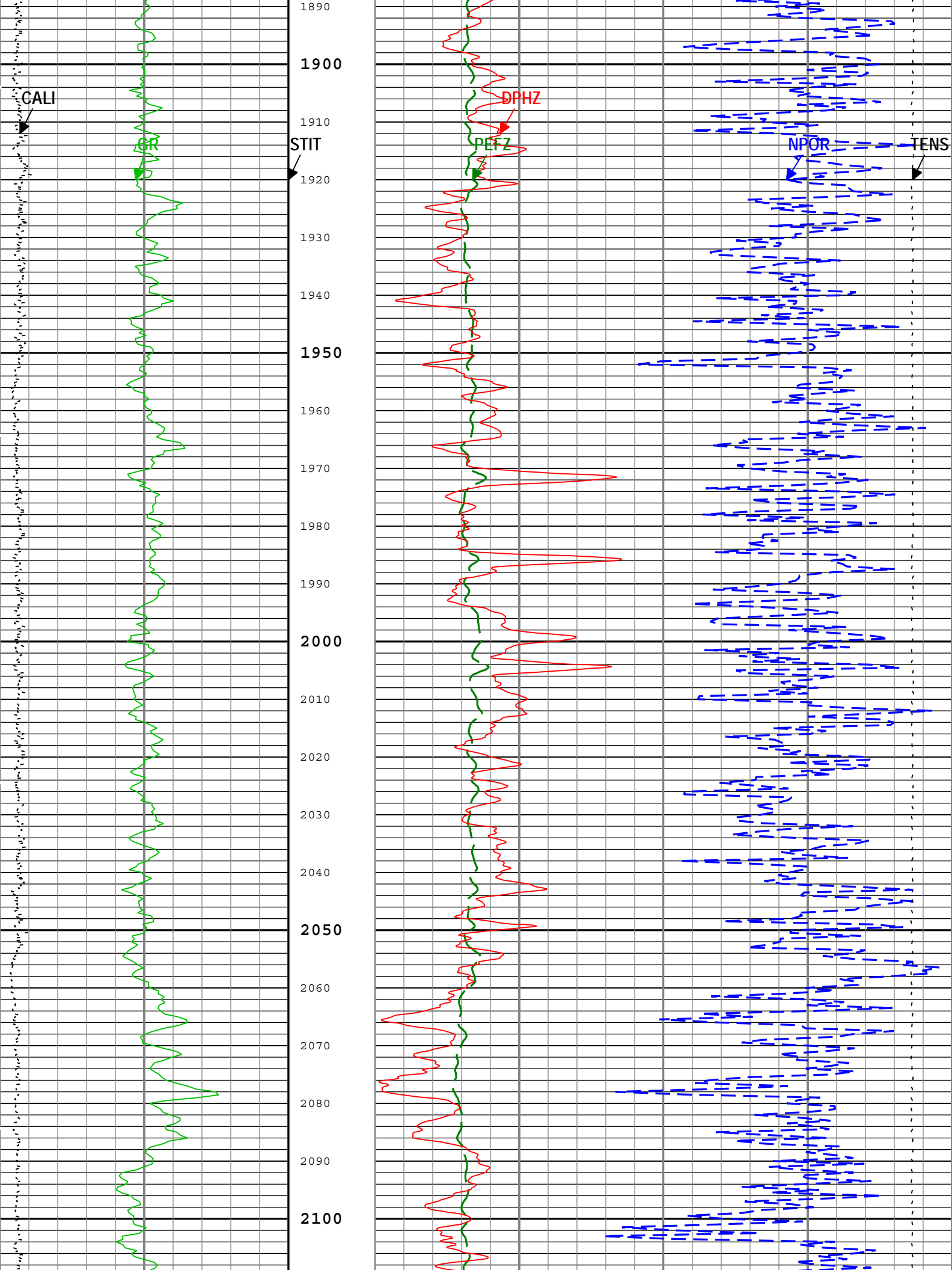


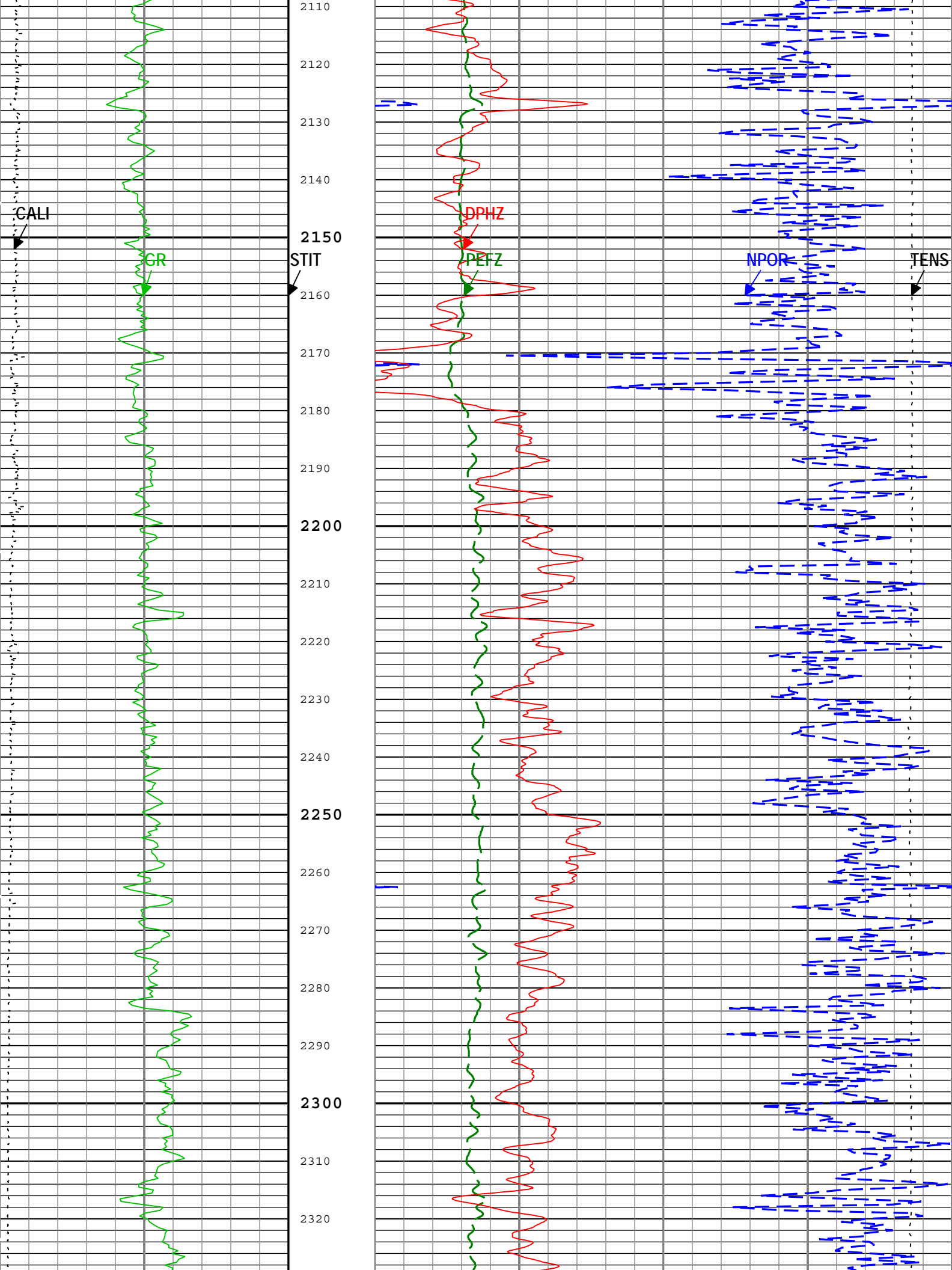


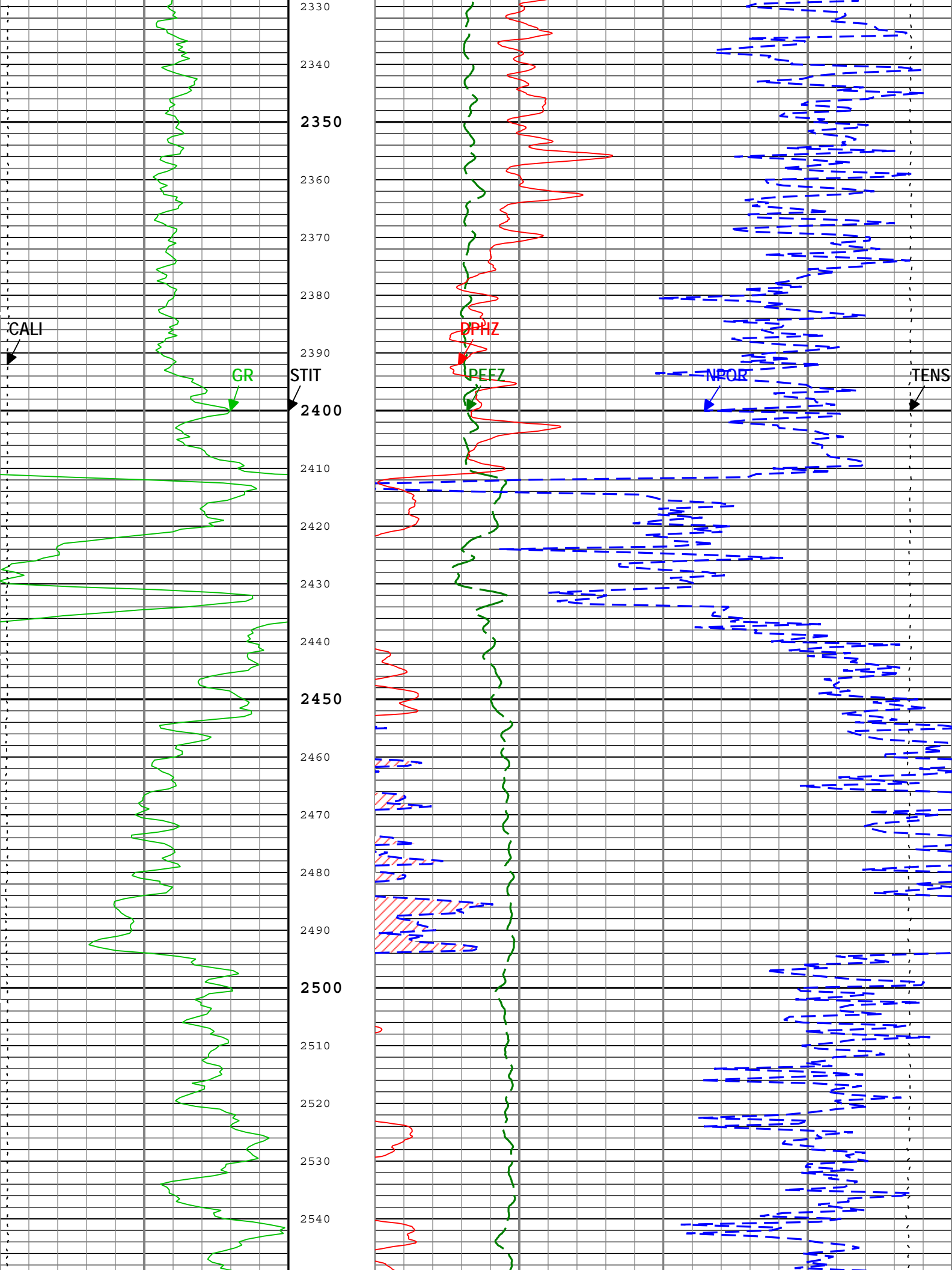


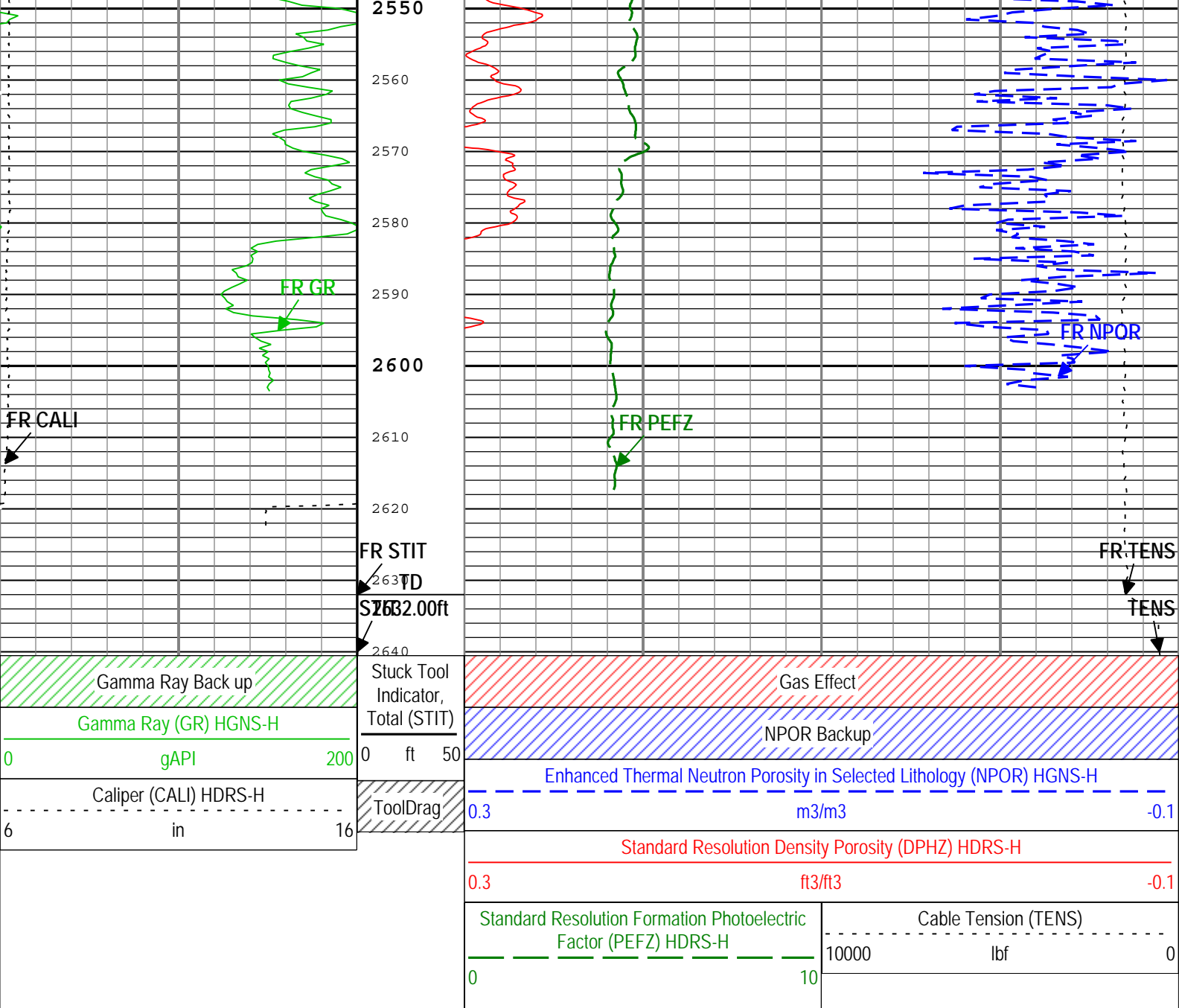












TIME_1900 - Time Marked every 60.00 (s)

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: 27-Jan-2013 15:59:38

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	33770.04	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0.062	in
CBLO	Casing Bottom (Logger)	WLSESSION	472	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.6	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh Water	
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	74.6	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.14	ohm.m
SOCO	Standoff Correction Option	HGNS-H	Yes	
TD	Total Measured Depth	Borehole	2632	ft

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	0	390	462
BS	6.25	462	2640.5

All depth are actual.

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

Run 1								

Pass Summary								
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run 1	Log[3]:Up	Up	2266.58 ft	2642.98 ft	27-Jan-2013 2:20:35 PM	27-Jan-2013 2:35:27 PM	0.00 ft	
Run 1	Log[5]:Up	Up	426.63 ft	2640.71 ft	27-Jan-2013 2:50:49 PM	27-Jan-2013 3:32:02 PM	0.00 ft	

All depths are referenced to toolstring zero

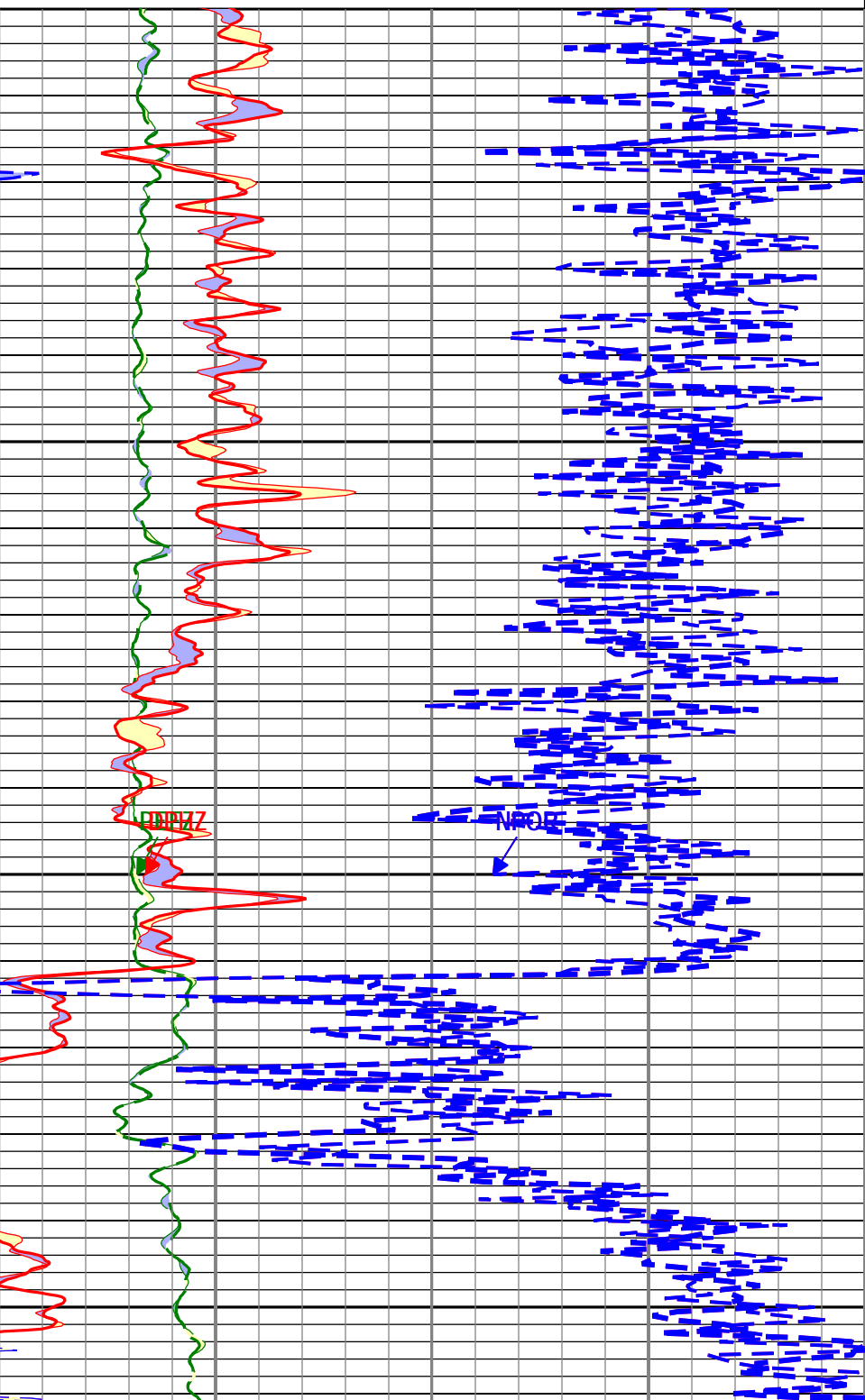
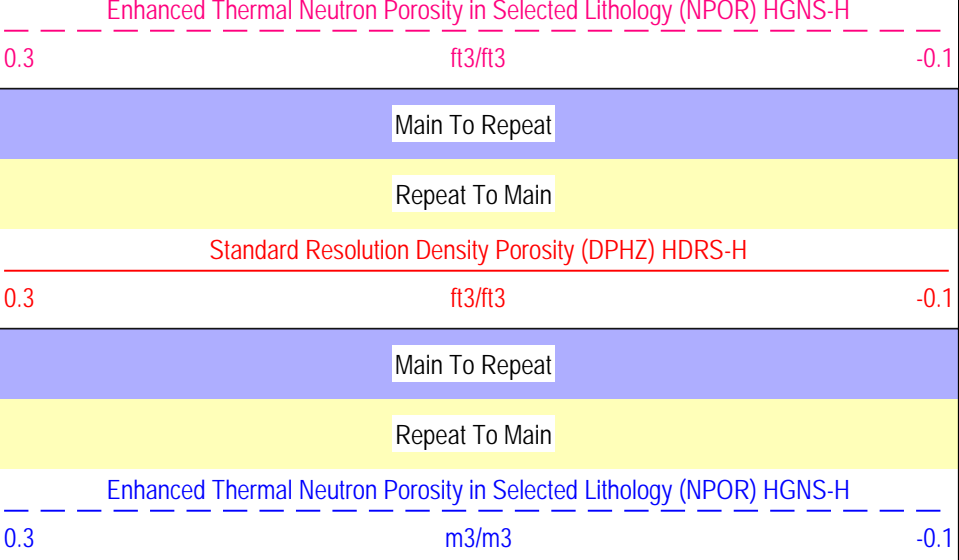
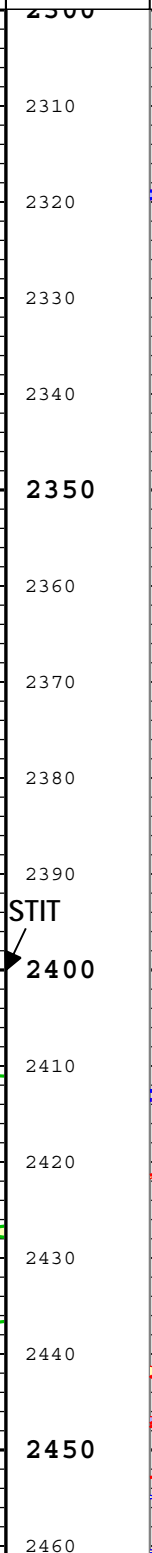
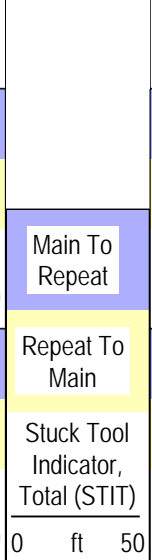
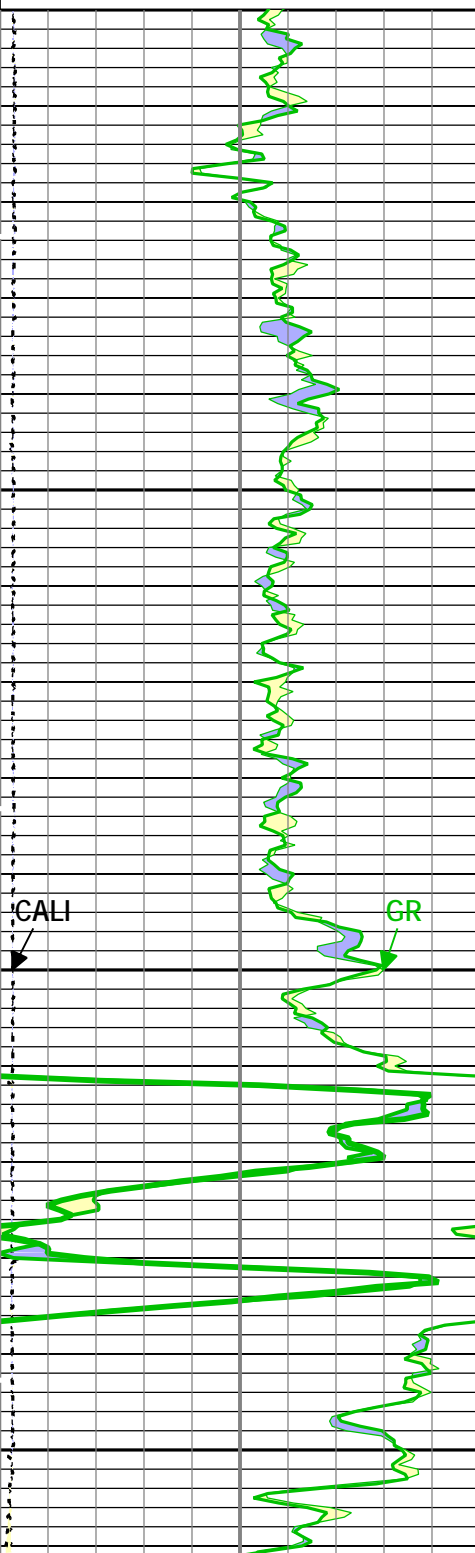
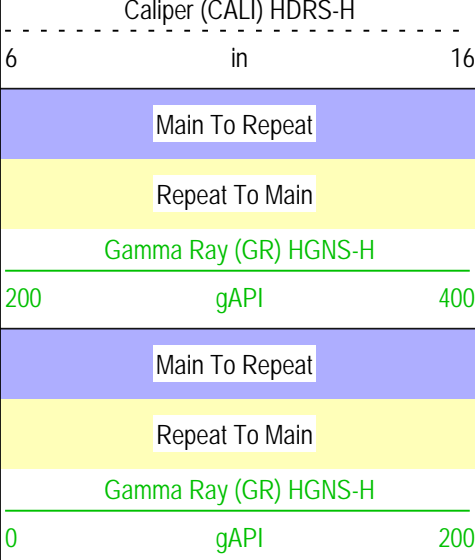
Log	Run 1: Log[5]:Up
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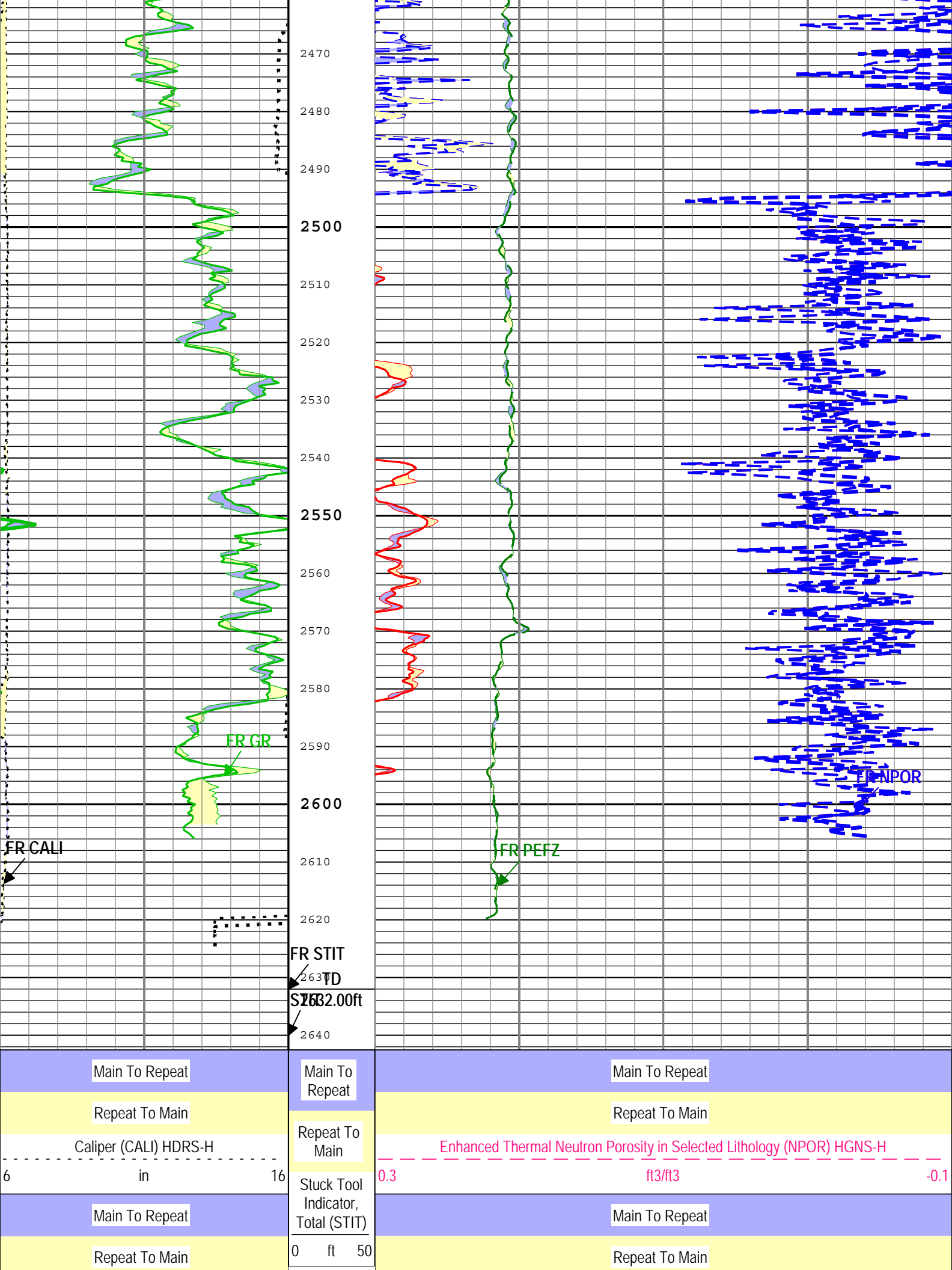
Description: HGNS standard resolution porosities for Platform Express Format: EMD 5in Porosity RA Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 27-Jan-2013 15:59:40

Channel	Source	Sampling
TIME_1900	WLWorkflow	0.1in

TIME_1900 - Time Marked every 60.00 (s)

	Main To Repeat	
	Repeat To Main	
	<div> <div>Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H</div> <div> <div>0</div> <div>10</div> </div> </div>	
	Main To Repeat	
	Repeat To Main	





Gamma Ray (GR) HGNS-H		
200	gAPI	400
Main To Repeat		
Repeat To Main		
Gamma Ray (GR) HGNS-H		
0	gAPI	200

Standard Resolution Density Porosity (DPHZ) HDRS-H		
0.3	ft3/ft3	-0.1
Main To Repeat		
Repeat To Main		
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H		
0.3	m3/m3	-0.1
Main To Repeat		
Repeat To Main		
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H		
0	10	

TIME_1900 - Time Marked every 60.00 (s)

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: 27-Jan-2013 15:59:40

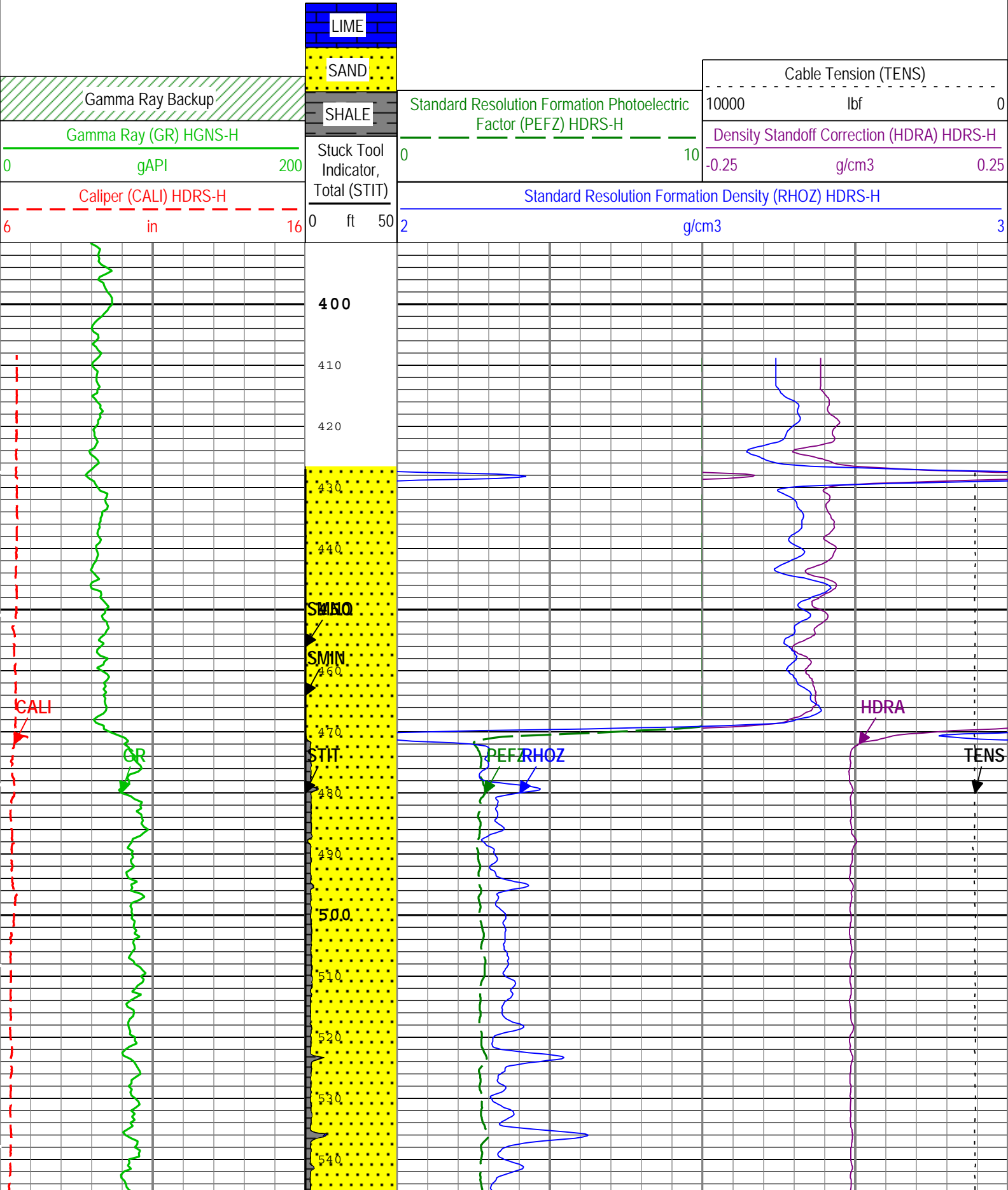
Run 1									
5" Density									
Integration Summary									
Output Channel(s)	Output Description	Input Parameter			Output Value			Unit	
Software Version									
Acquisition System					Version				
MaxWell					3.1.9755.0				
Application Patch					SP-20120723-3.1.9755.1112				
					EXP_APL-MASTAXIS-3.1.9755.1221				
Computation		Description						Version	
DepthCorrection		DepthCorrection						3.1.9755.0	
Tool Elements		Description			Software Version			Firmware Version	
HRCC-H		HILT High-Resolution Control Cartridge, 150 degC			3.1.9755.0			2.0	
HGNS-H		HILT Gamma-Ray and Neutron Sonde, 150 degC			3.1.9755.0			2.0	
HRGD-H		HILT Resistivity Gamma-Ray Density Device, 150 degC			3.1.9755.0			3.0	
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data	
Run 1	Log[5]:Up	Up	426.63 ft	2640.71 ft	27-Jan-2013 2:50:49 PM	27-Jan-2013 3:32:02 PM	0.00 ft		
All depths are referenced to toolstring zero									
Log	Run 1: Log[5]:Up								

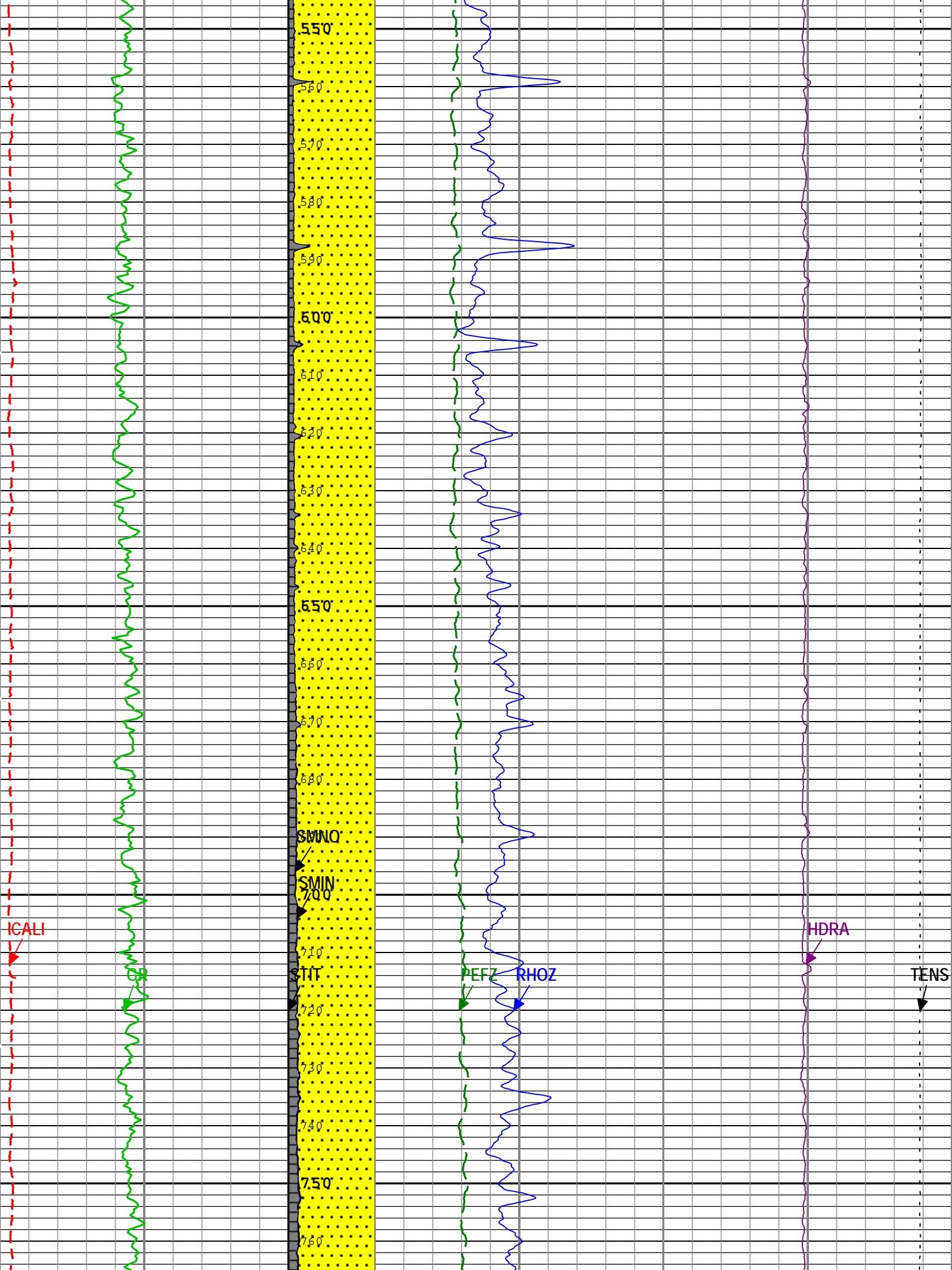
Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Density) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 27-Jan-2013 15:59:41

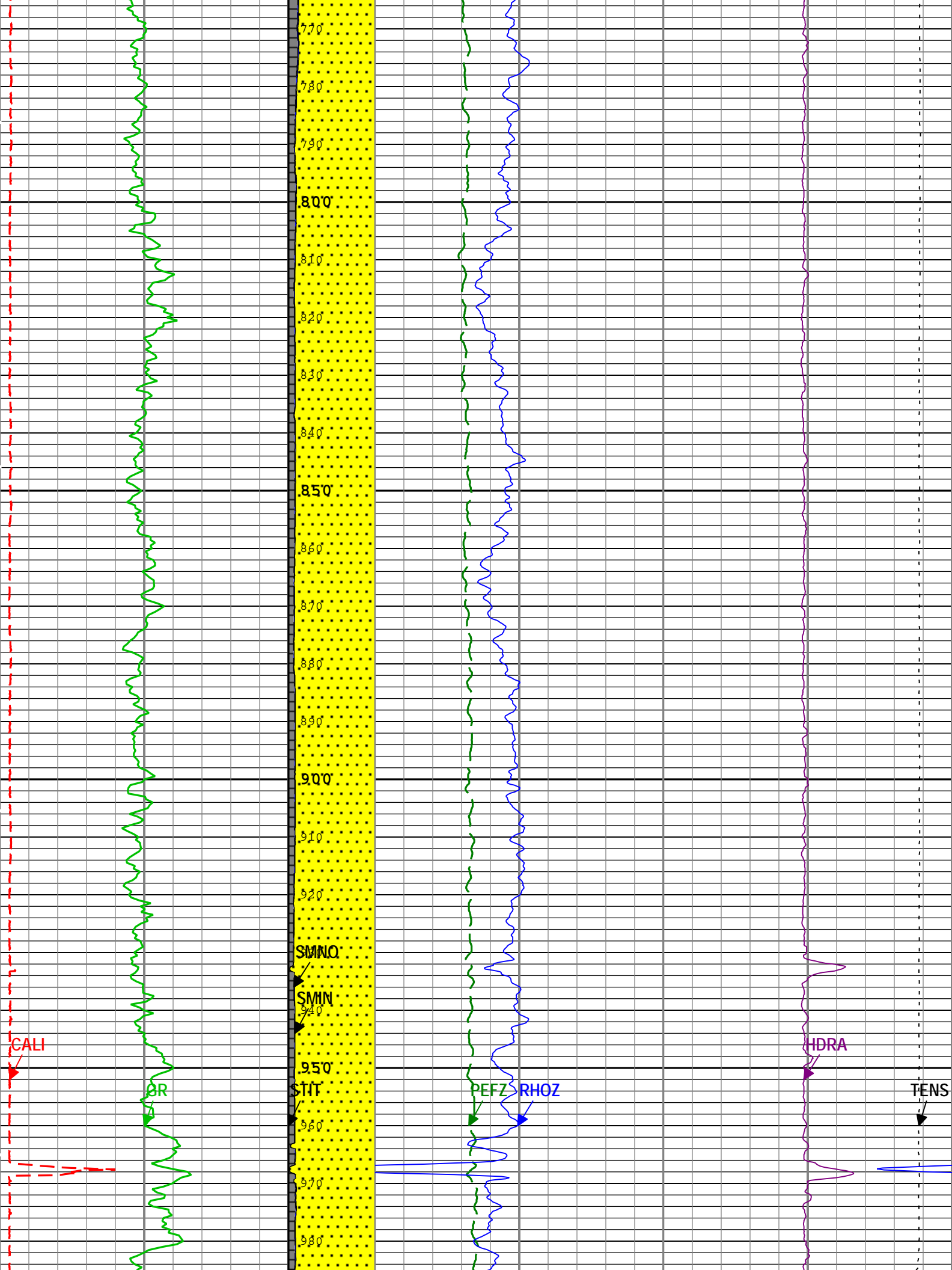
Channel	Source	Sampling
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR	HGNS-H:HGNS-H:HGNS-H	6in
HDRA	HDRS-H:HRMS-H:HRGD-H	2in
PEFZ	HDRS-H:HRMS-H:HRGD-H	2in
RHOZ	HDRS-H:HRMS-H:HRGD-H	2in
SMIN	HDRS-H:HRMS-H:HRGD-H	2in

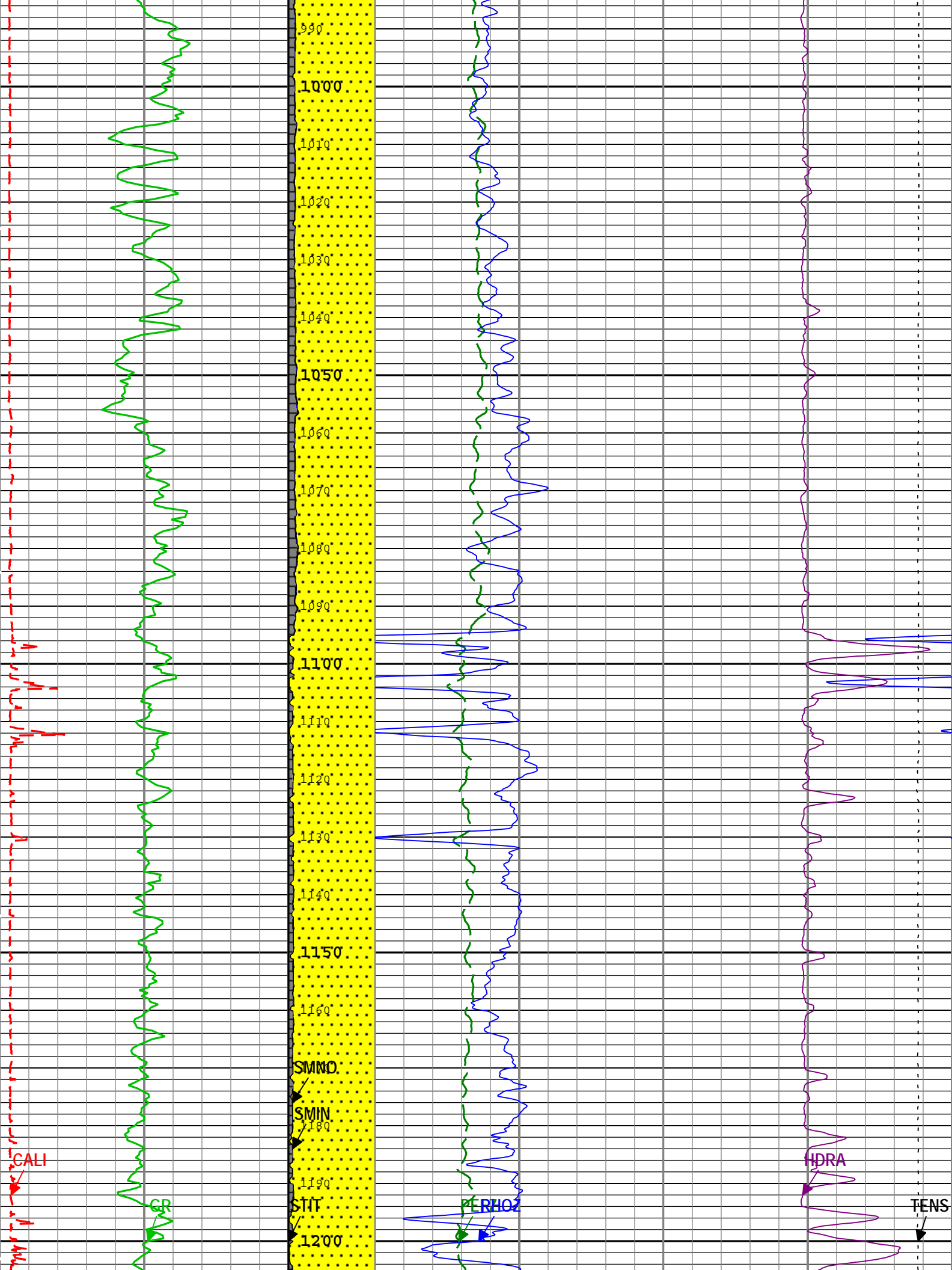
SMIN	HDRS-H:HRMS-H:HRGD-H	2in
SMNO	HDRS-H:HRMS-H:HRGD-H	2in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

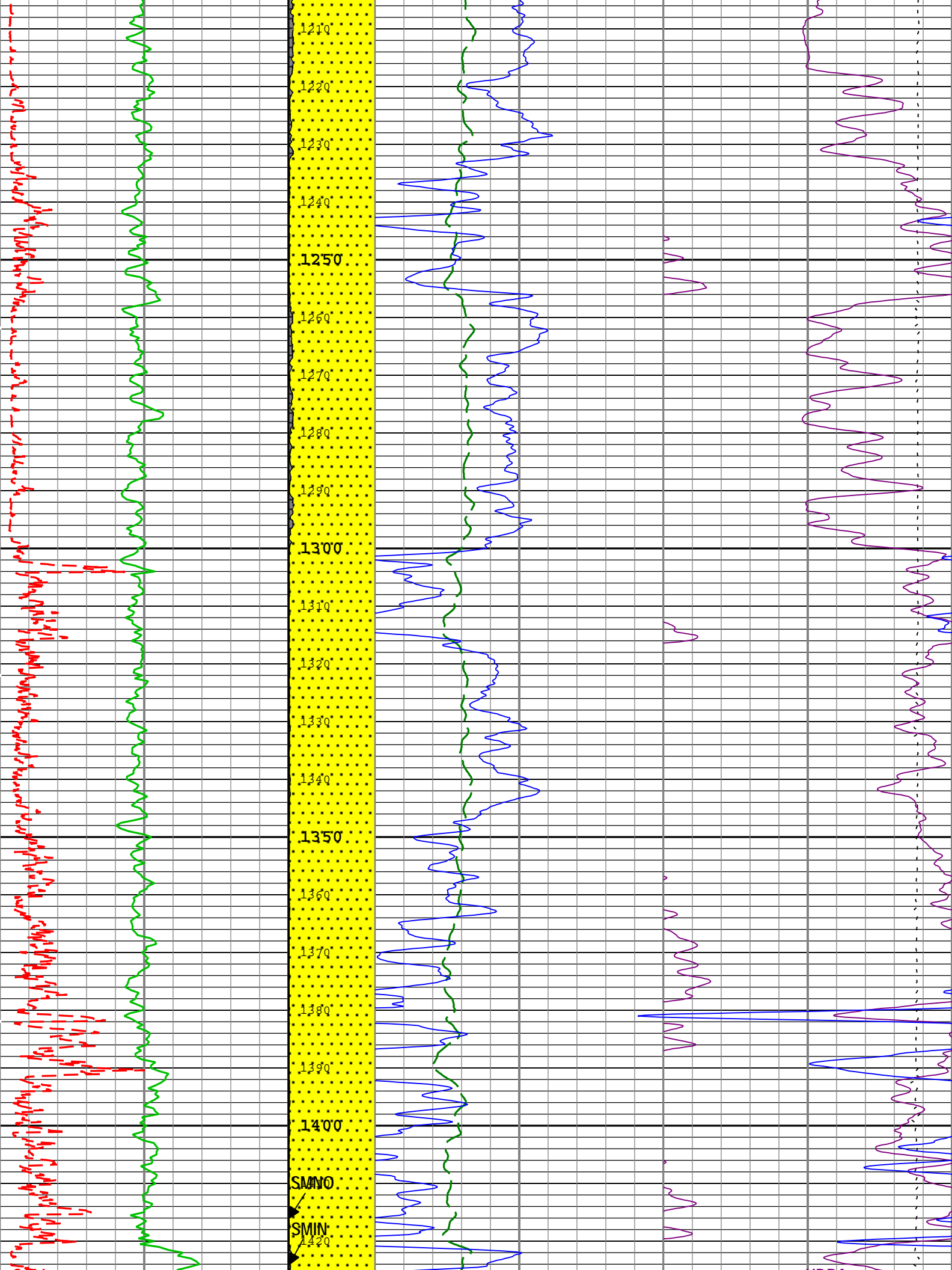
TIME_1900 - Time Marked every 60.00 (s)

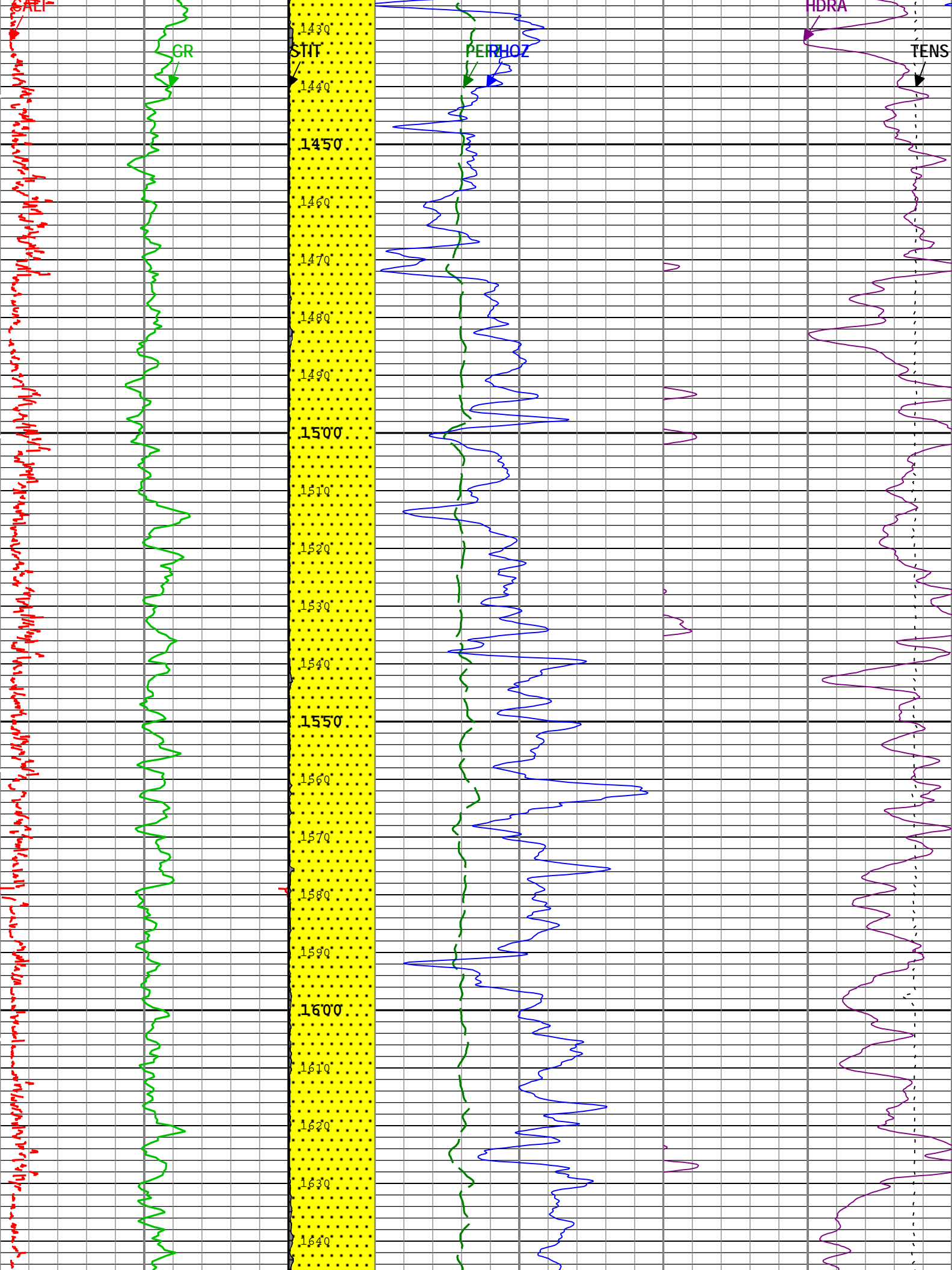


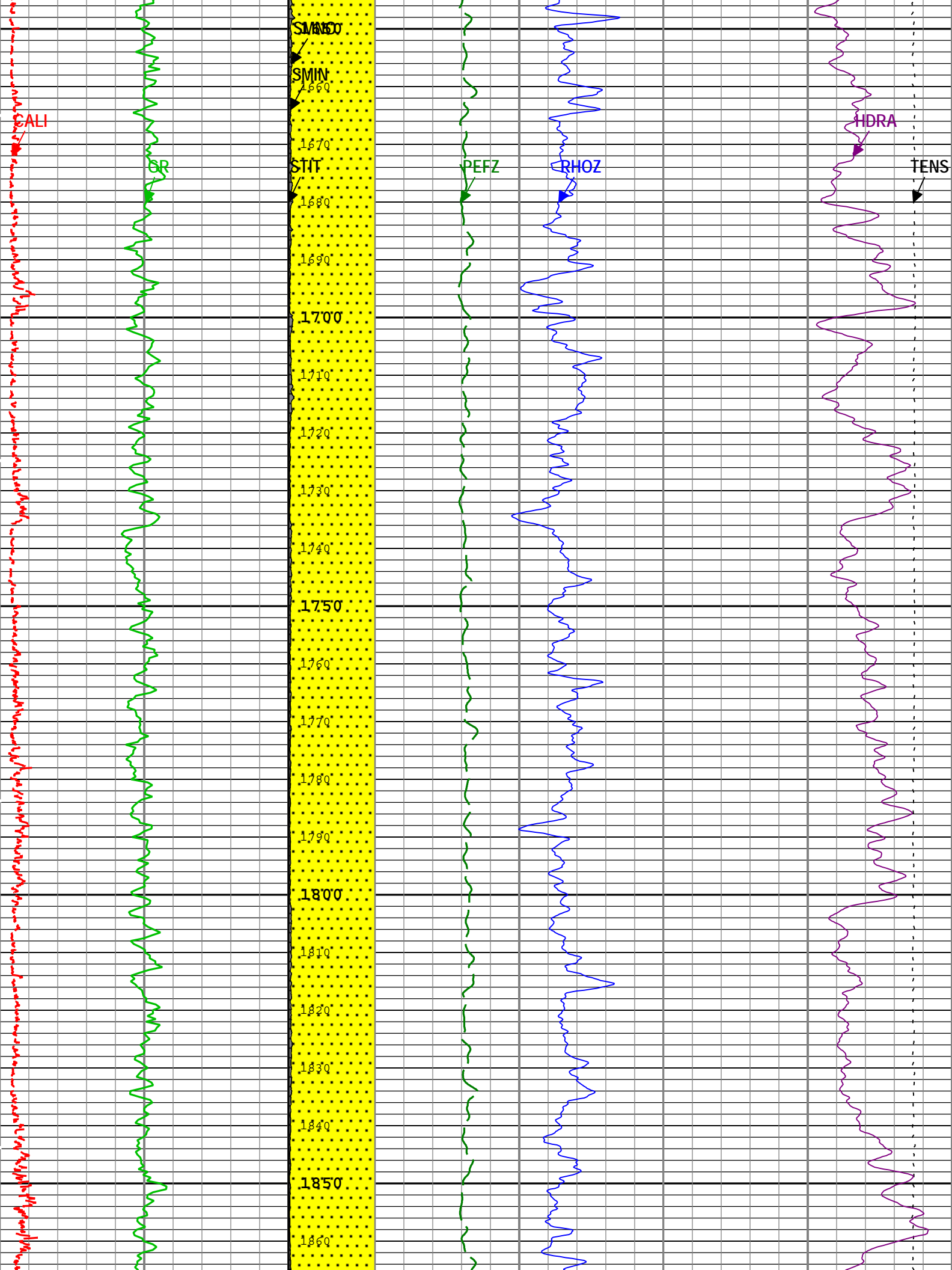


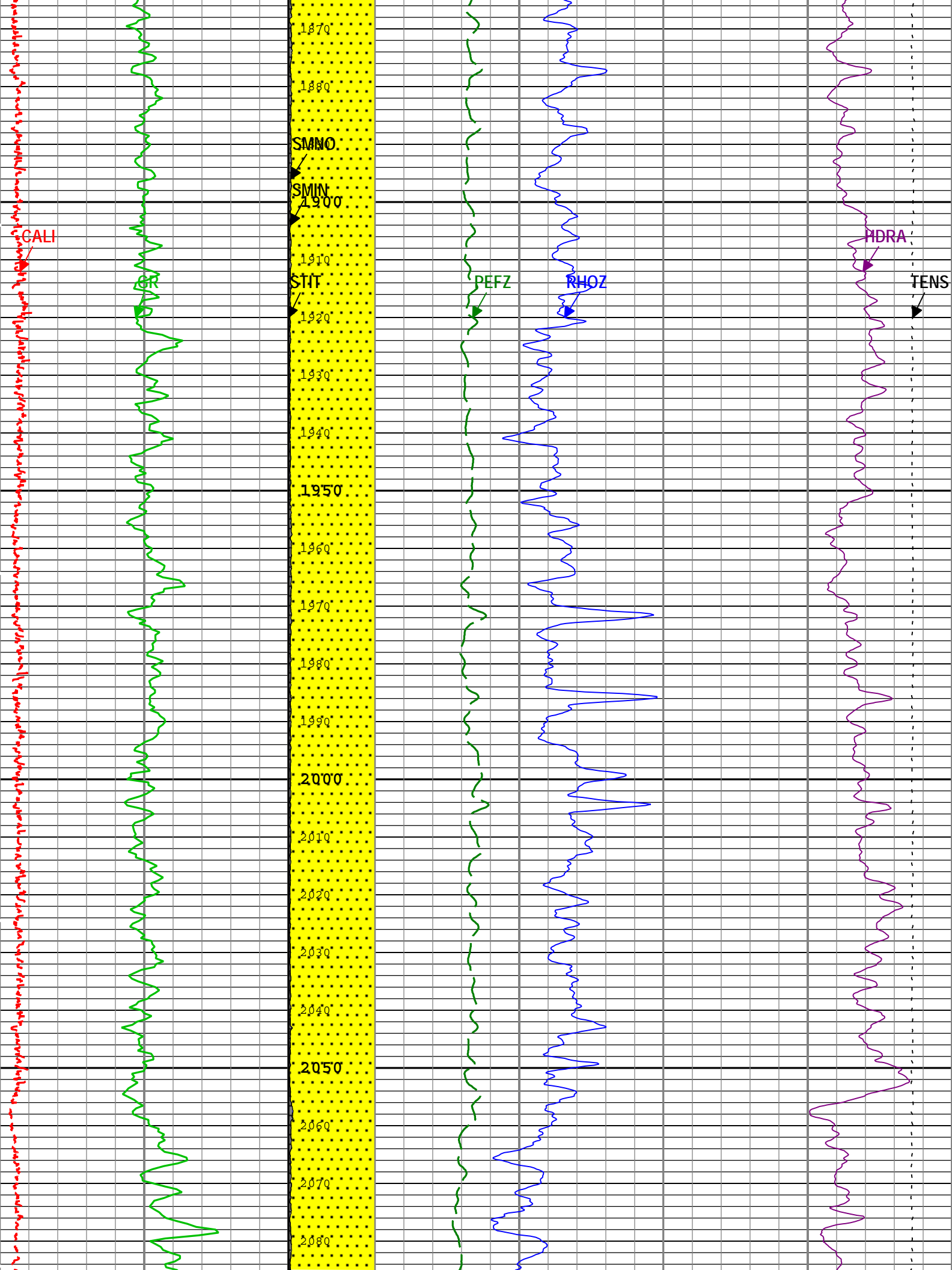


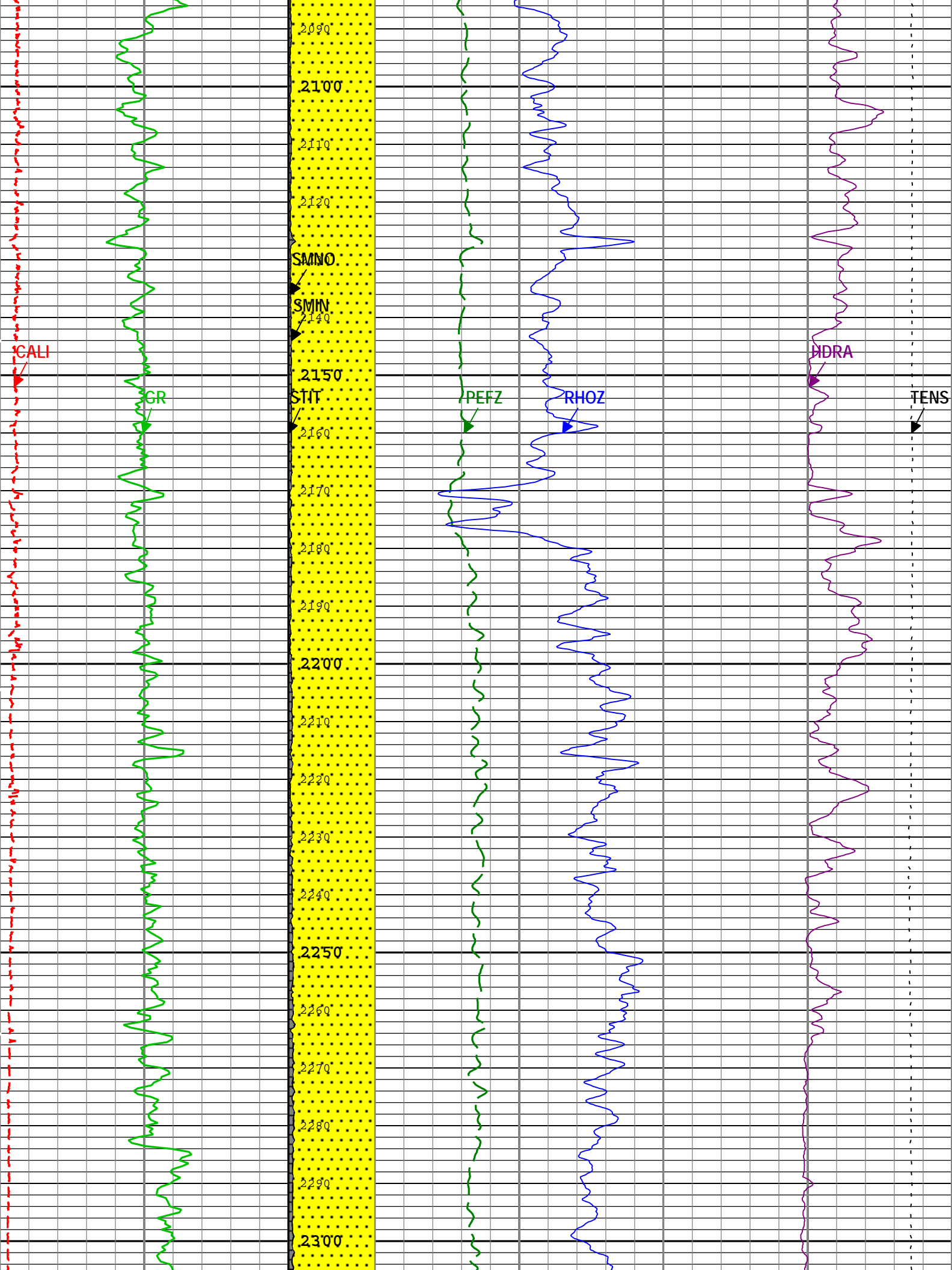


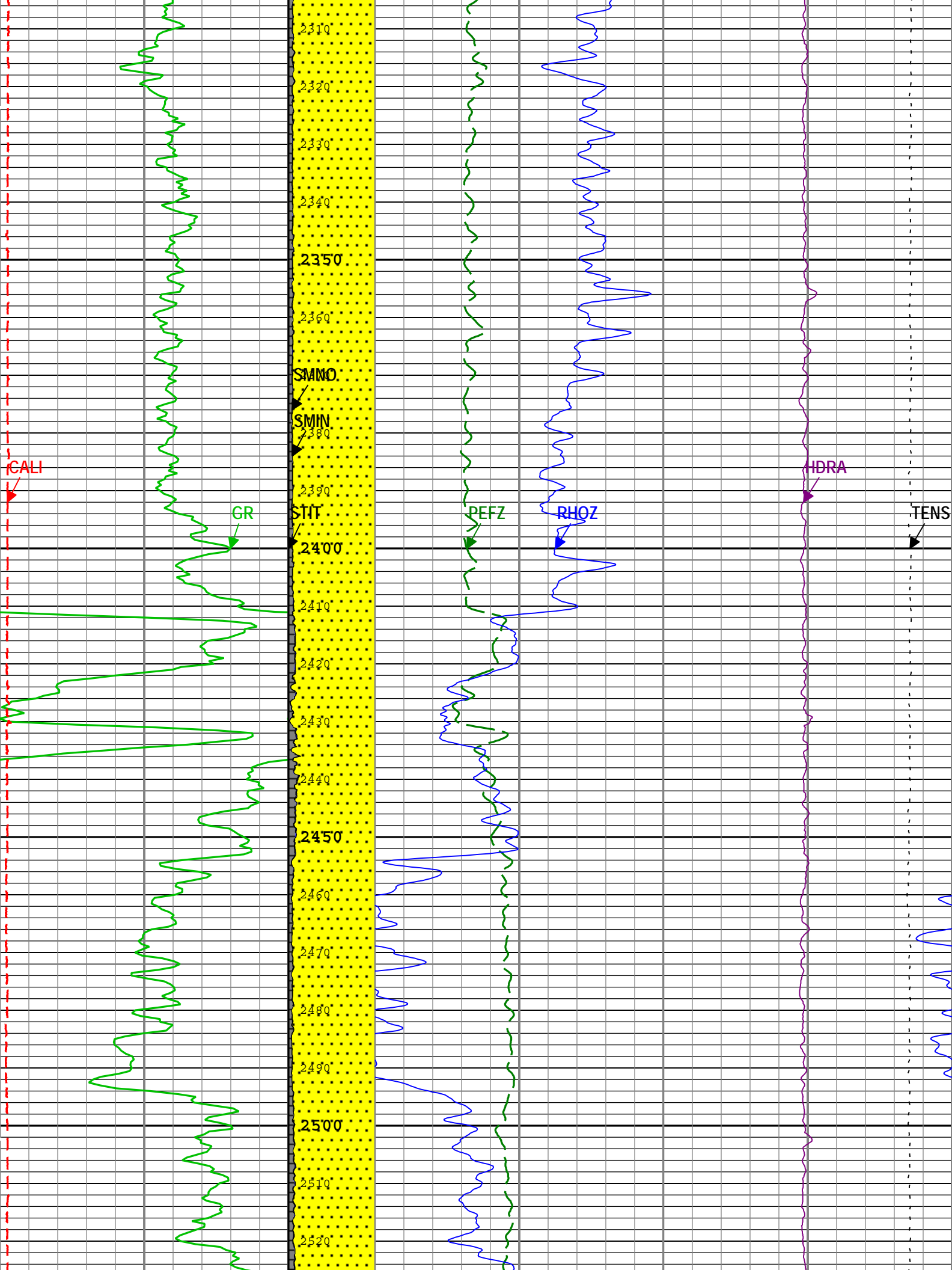


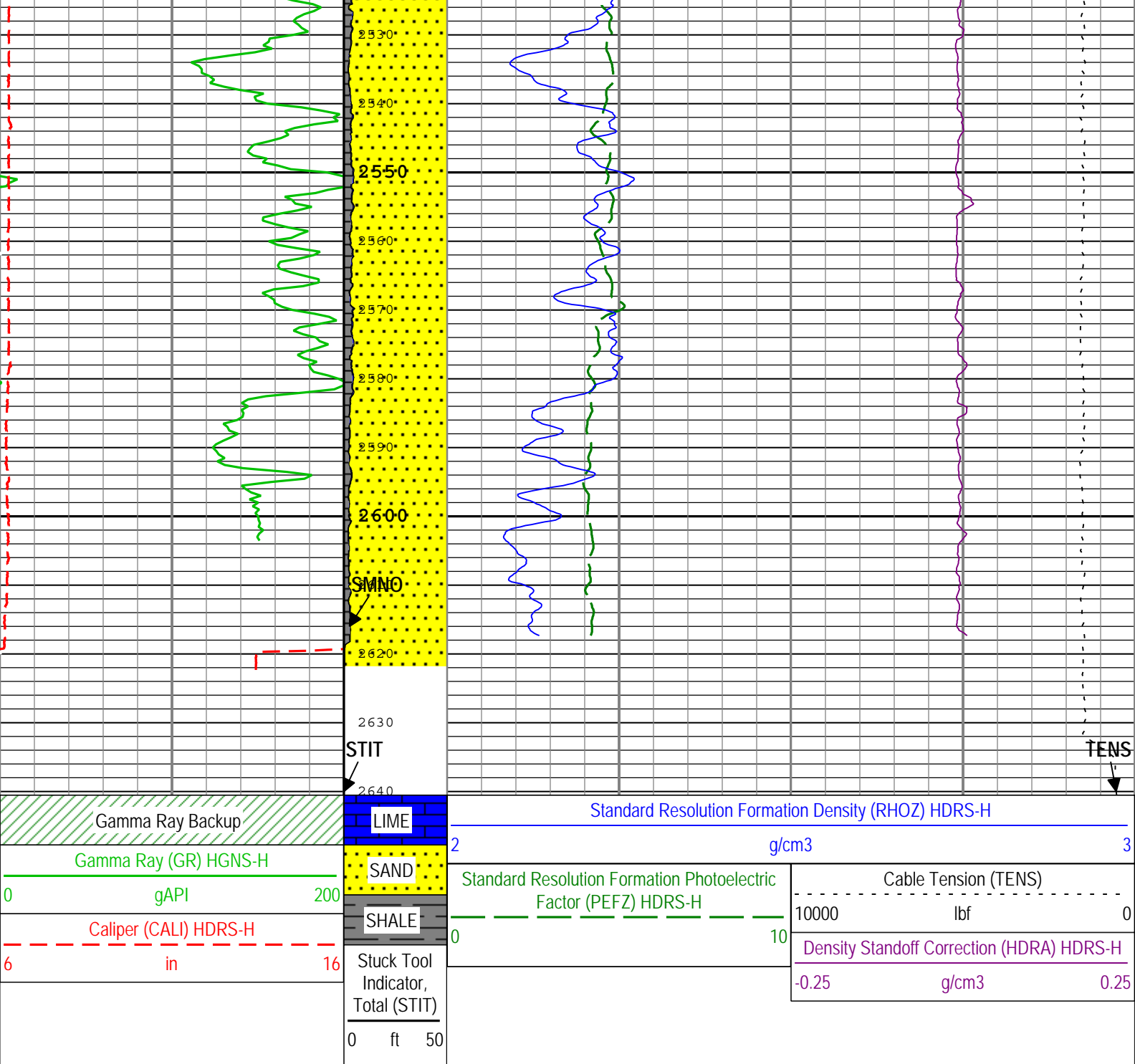












TIME_1900 - Time Marked every 60.00 (s)

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: 27-Jan-2013 15:59:41

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-H	0.062	in
CBLO	Casing Bottom (Logger)	WLSESSION	472	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.6	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DHC	Density Hole Correction	HDRS-H	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-H	Yes	
TD	Total Measured Depth	Borehole	2632	ft

Depth Zone Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
BS	0	390	462	
BS	6.25	462	2640.5	
All depth are actual.				

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
HRGD_BRD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

Company:	Omimex Petroleum Inc.	Schlumberger
Well:	Bledsoe 12-6-5-44	
Field:	Ballyneal	
County:	Yuma	
State:	Colorado	

Platform Express
Compensated Neutron Log
LithoDensity