

Company: Ominex Petroleum Inc

Well: Denney State 5-36-7-45

Field: Holyoke South

County: Phillips State: Colorado

Platform Express

Compensated Neutron Log

LithoDensity

County: Phillips
Field: Holyoke South
Location: SWNW Sec. 36, T7N, R45W
Well: Denney State 5-36-7-45
Company: Ominex Petroleum Inc

Location:		Elev.:	
SWNW Sec. 36, T7N, R45W		K.B.	3783.00 ft
SHL: 2502' FNL & 513" FWL		G.L.	3777.00 ft
Lat/Long: 40.535140/-102.338550		D.F.	3782.00 ft
Permanent Datum:	Ground Level	Elev.:	3777.00 f
Log Measured From:	Kelly Bushing	6.00 ft	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Section:	Township:	Range:
05-095-06279-0000	36	7N	45W

Logging Date 06-Dec-2014

Run Number Run 1

Depth Driller 2761.00 ft

Schlumberger Depth 2764.00 ft

Bottom Log Interval 2764.00 ft

Top Log Interval 498.00 ft

Casing Driller Size @ Depth 7 in @ 495.00 ft

Casing Schlumberger 495 ft

Bit Size 6.25 in

Type Fluid In Hole Water

Density 8.9 lbm/gal

Viscosity 29 s

Fluid Loss 4 cm3

PH 8

Source of Sample Flowline

RM @ Meas Temp 0.2 ohm.m @ 93.2 degF

RMF @ Meas Temp 0.15 ohm.m @ 75 degF

RMC @ Meas Temp 0.25 ohm.m @ 75 degF

Source RMF Calculated

RM @ BHT 0.17 @ 112.19 0.1 @ 112.19

Max Recorded Temperatures

Circulation Stopped

Logger on Bottom Time 06-Dec-2014 13:35:00

Unit Number Location: 2135 Fort Morgan, CO

Recorded By Kerl Ondrus

Witnessed By Paul Dekaye

Disclaimer

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Well Sketch

Driller Depth

0.00 ft

495.00 ft

Casing 7in
20lbm/ft



Borehole Size/Casing/Tubing Record						
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Bit						
Bit Size (in)	6.25					
Top Driller (ft)	495					
Top Logger (ft)	498					
Bottom Driller (ft)	2761					
Bottom Logger (ft)	2764					
Casing						
Size (in)	7					
Weight (lbm/ft)	20					
Inner Diameter (in)	6.456					
Grade	J55					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	495					
Bottom Logger (ft)	495					

Operational Run Summary						
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Parameter (unit)	Run 1					
Date Log Started	06-Dec-2014					
Time Log Started	12:38:48					
Date Log Finished	06-Dec-2014					
Time Log Finished	14:18:42					
Top Log Interval (ft)	498.00					
Bottom Log Interval (ft)	2764.00					
Total Depth (ft)	2764.00					
Max Hole Deviation (deg)	1.28					
Azimuth of Max Deviation (deg)	176.64					
Bit Size (in)	6.250					
Logging Unit Number	2135					
Logging Unit Location	Fort Morgan, CO					
Recorded By	Keri Ondrus					
Witnessed By	Paul Dekaye					
Service Order Number	BX19-00199					

Service Order Number

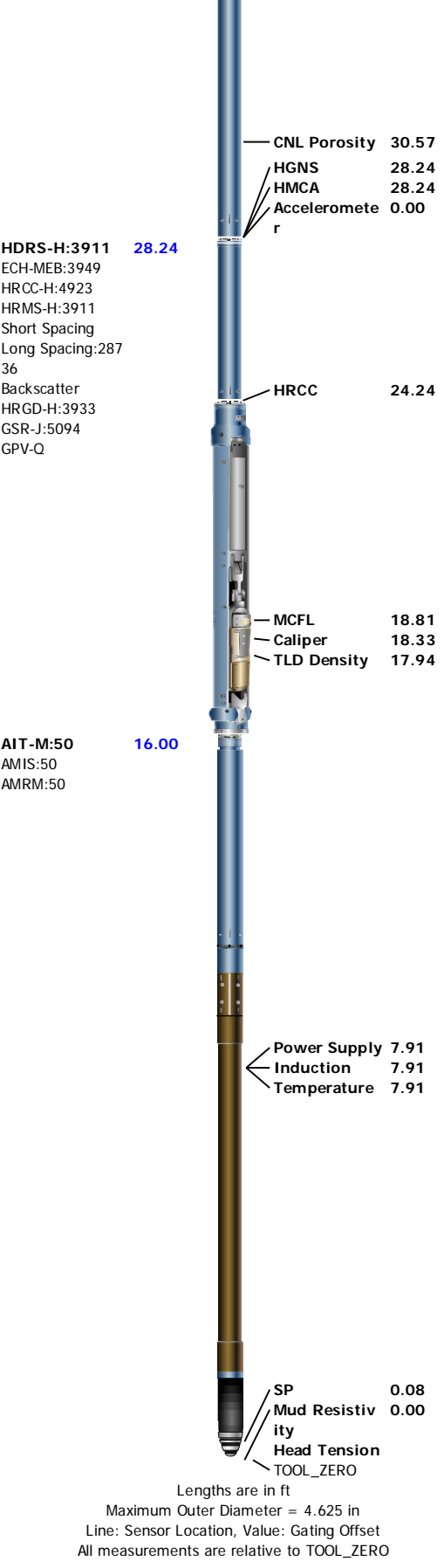
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Borehole Fluids

Parameter(unit)	Run 1					
Fluid Type	Water					
Max Recorded Temperatures (degF)	NaN					
Source of Sample	Flowline					
Salinity (ppm)	0					
Density (lbm/gal)	8.9					
Funnel Viscosity (s)	29					
Fluid Loss (cm3)	4					
PH	8					
Date/Time Circulation Stopped	NaN					
Date Logger on Bottom	06-Dec-2014					
Time Logger on Bottom	13:35:00					
Source RMF	Calculated					
RMC	Calculated					
RM @ Meas Temp (ohm.m@degF)	0.2 @ 93.2					
RMF @ Meas Temp (ohm.m@degF)	0.15 @ 75					
RMC @ Meas Temp (ohm.m@degF)	0.25 @ 75					
RM @ BHT (ohm.m@degF)	0.17 @ 112.19					
RMF @ BHT (ohm.m@degF)	0.1 @ 112.19					
RMC @ BHT (ohm.m@degF)	0.17 @ 112.19					
Total Solid (%)	4.3					
High Gravity Solids (%)						

Remarks and Equipment Summary

Run 1: Toolstring				Run 1: Remarks	
Equip name	Length	MP name	Offset		
LEH-QT:2552	51.57				
LEH-QT:2552					
DTC-H:10530	48.65				
ECH-KC:9469		CTEM	47.75		
DTC-H:10530		HV	0.00		
		ToolStatus	45.65		
Adaptor_Head	45.65	TelStatus	45.65		
GPIT-F:770	41.65				
GPIH-B					
GPIC-F:770		GPIT-F Incl	40.23		
DHRU-F:799		ometer			
HGNS-H:4810	37.65				
HGNH:3912		GPIT	0.00		
NSR-F:5215		Temperature	37.62		
NPV-N					
HMCA-H		GR	36.91		
HAC CZ-H:5955					
HGNS-H:4810					



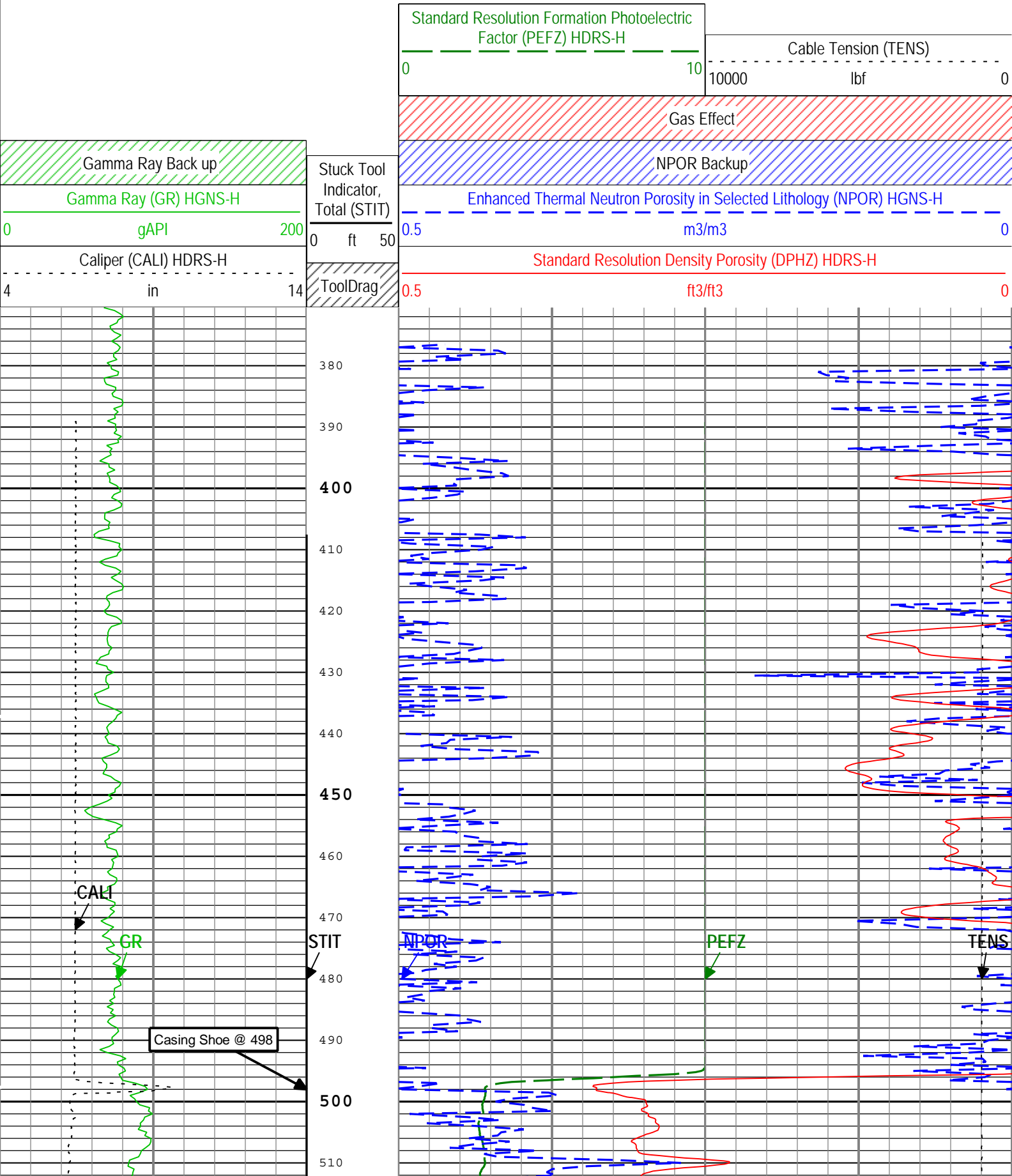
Depth Summary

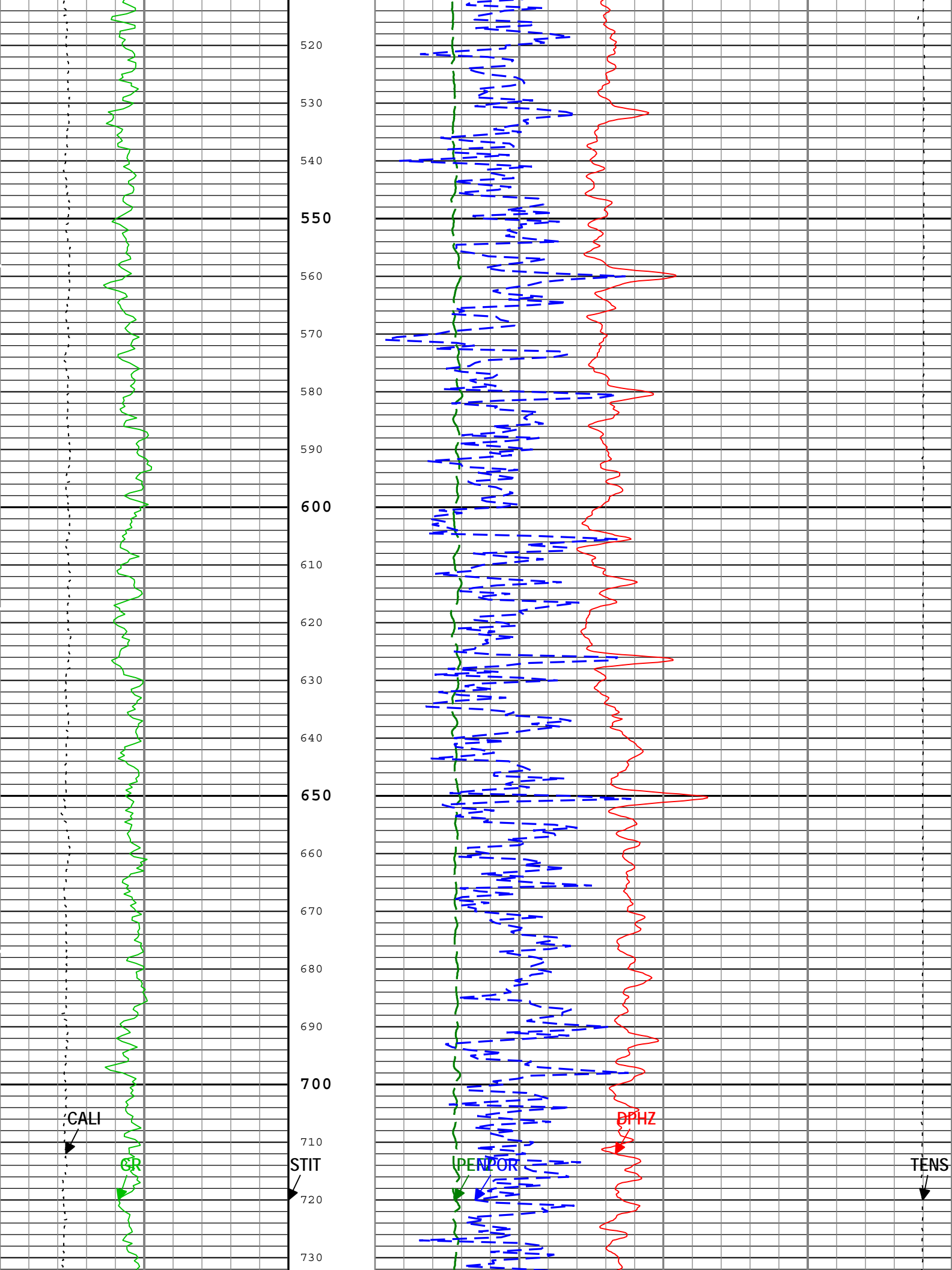
Run 1			
Depth Measuring Device			
Type	IDW-JA		
Serial Number	6433		
Calibration Date	23-Sep-2014		
Calibrator Serial Number			
Calibration Cable Type	7.46P XS		

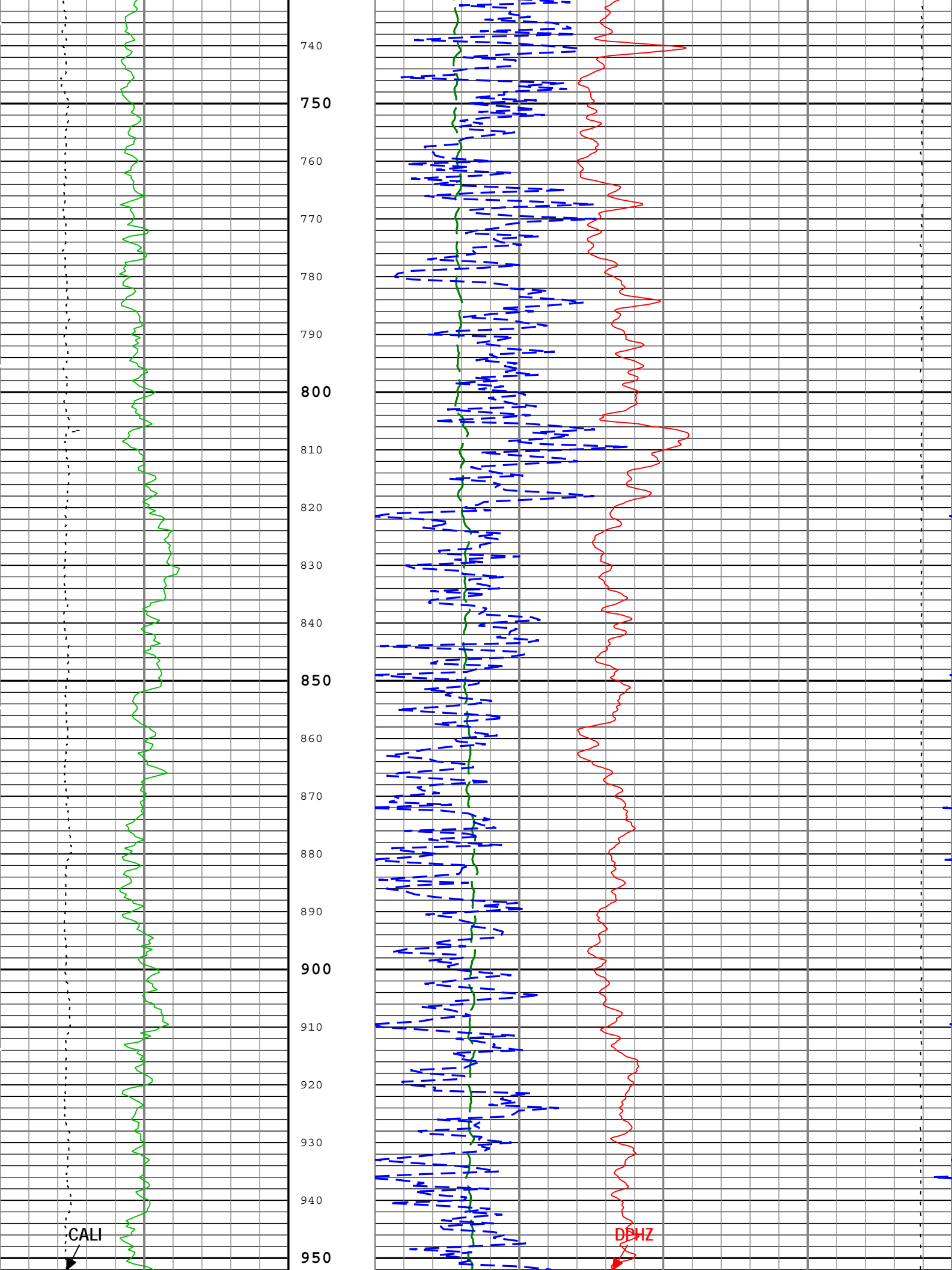
Channel	Source	Sampling
CALI	HDRS-H:HRCC-H:HRCC-H	1in
DPHZ	HDRS-H:HRMS-H:HRGD-H	2in
GR	HGNS-H:HGNS-H:HGNS-H	6in

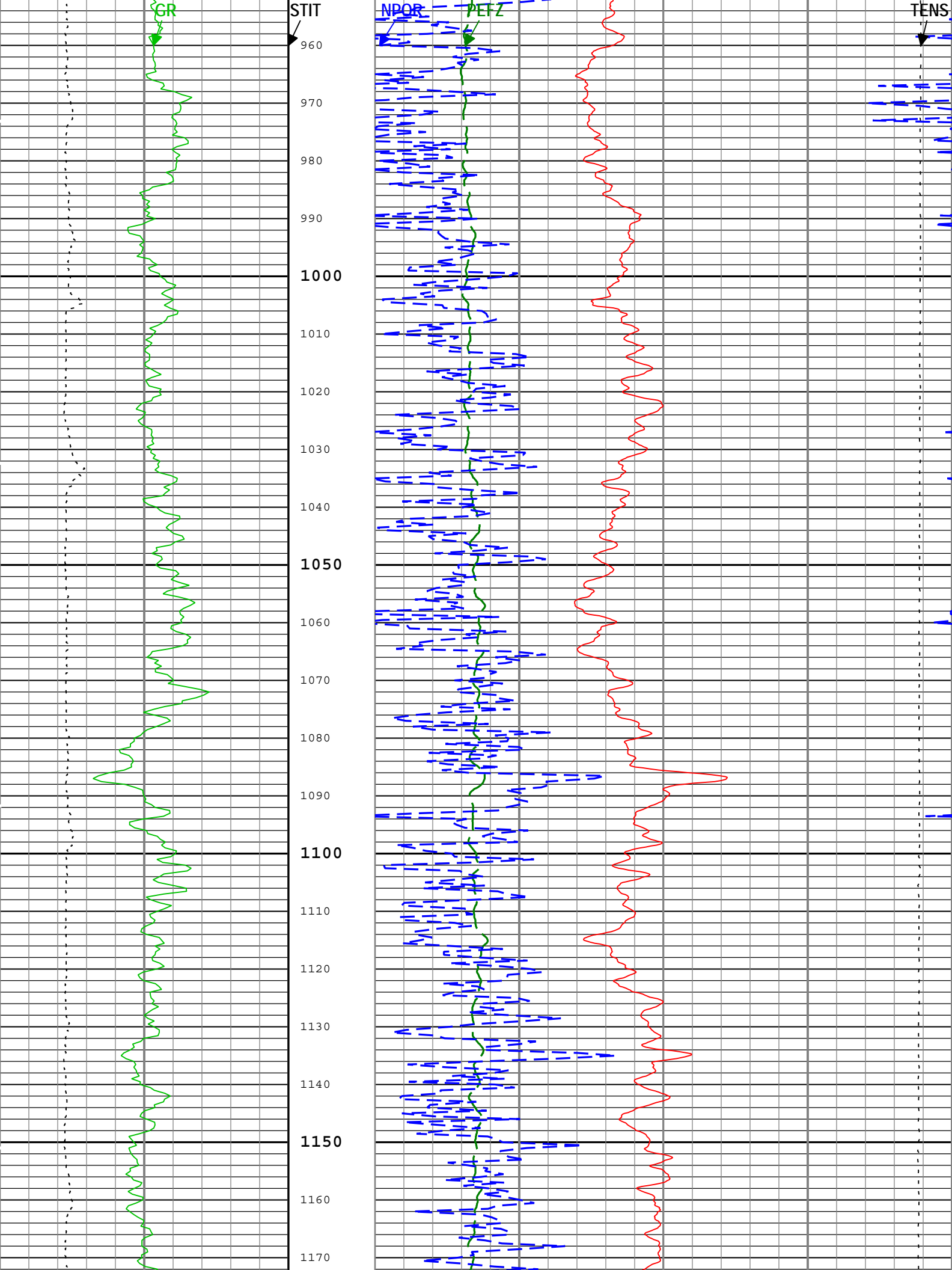
NPOR	HGNS-H:HGNS-H:HGNS-H	6in
PEFZ	HDRS-H:HRMS-H:HRGD-H	2in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

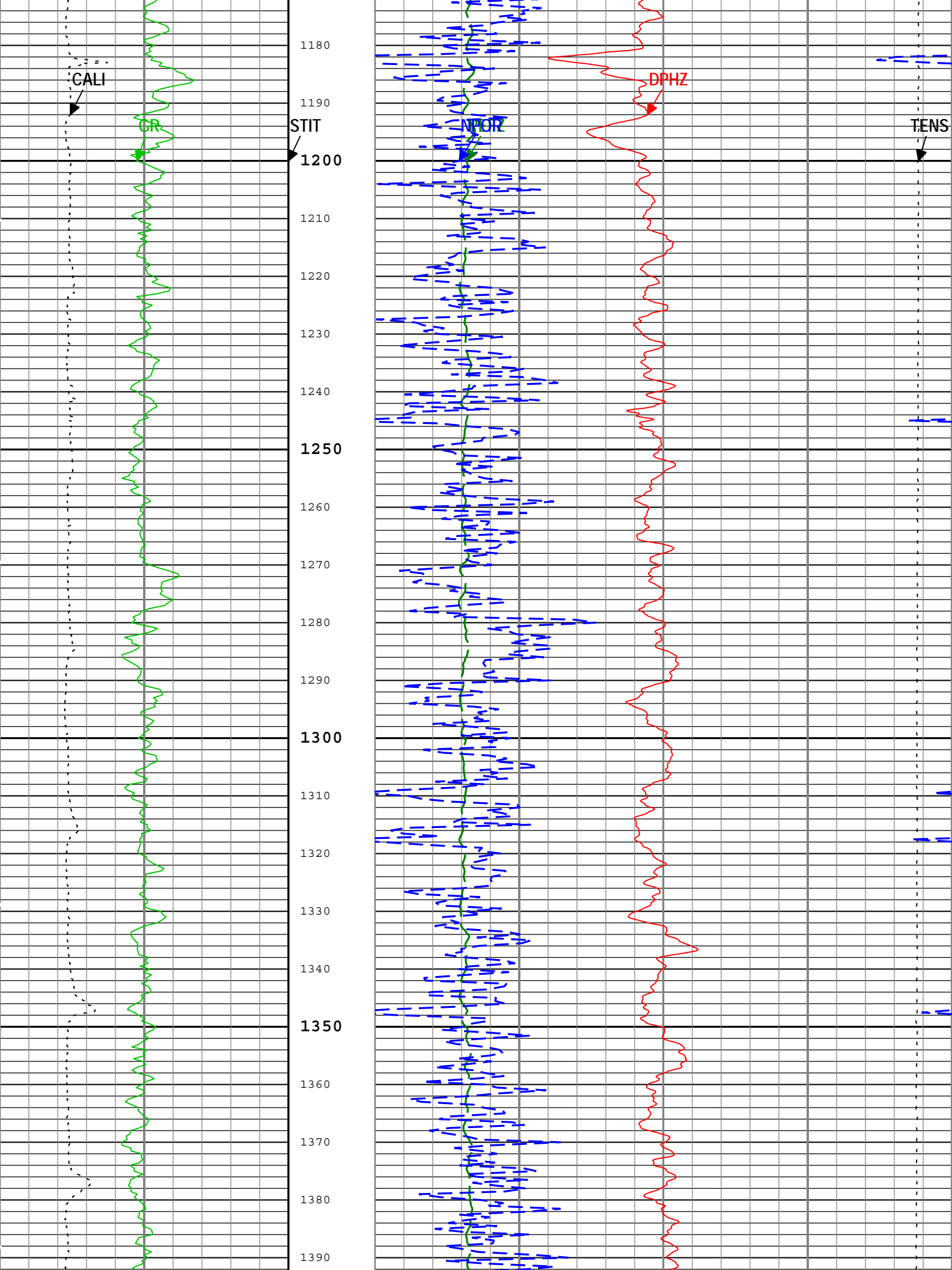
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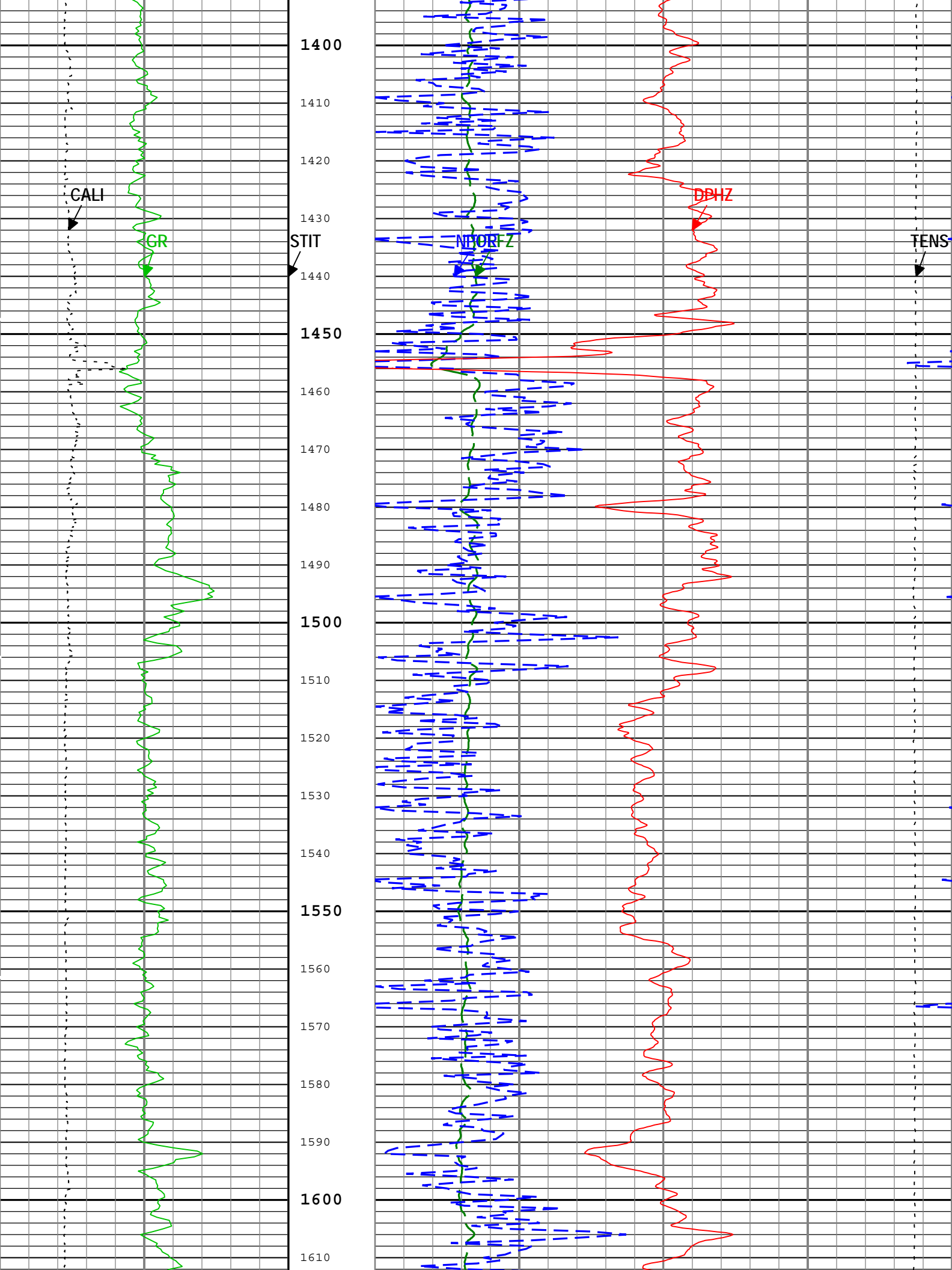


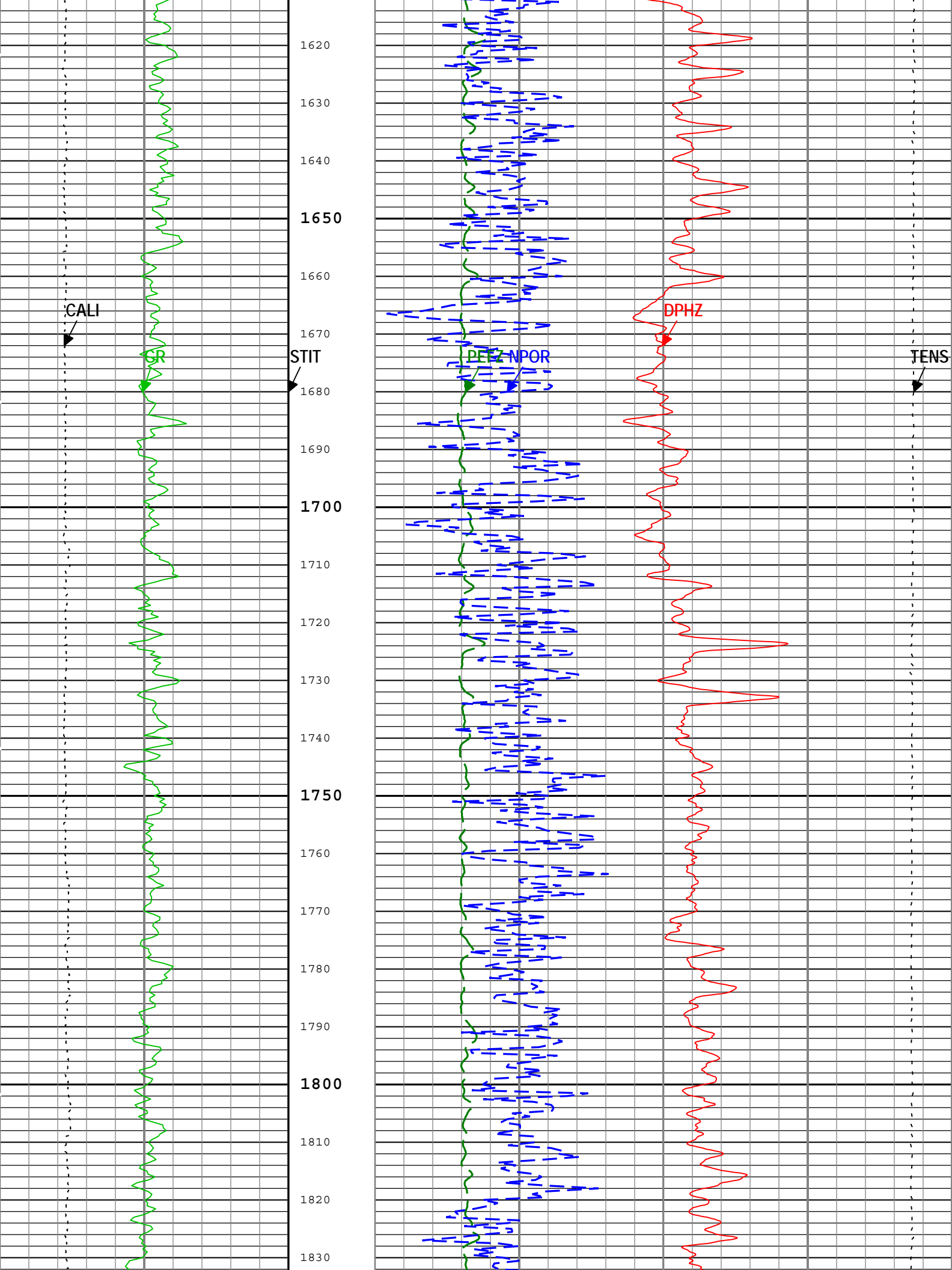


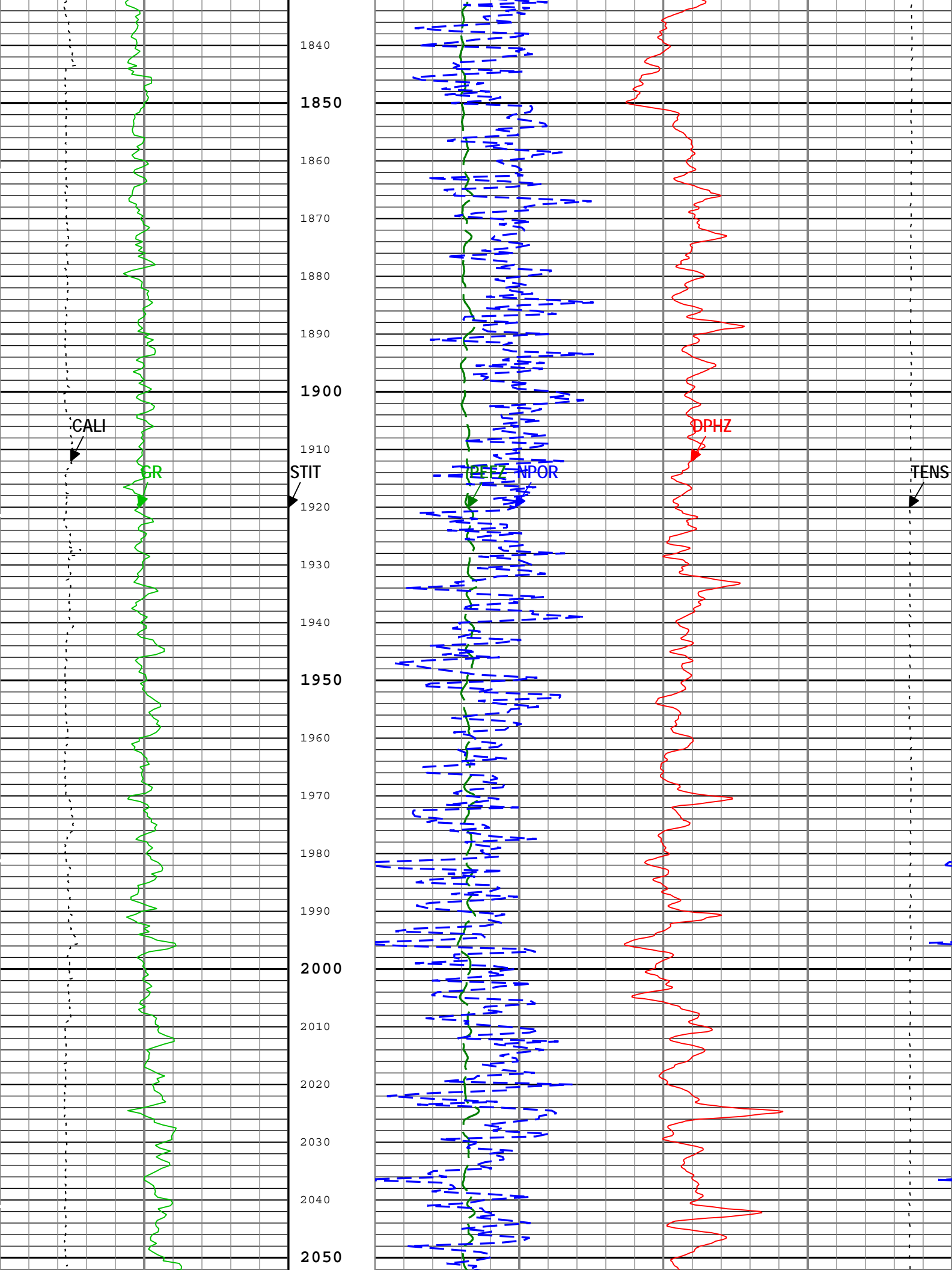


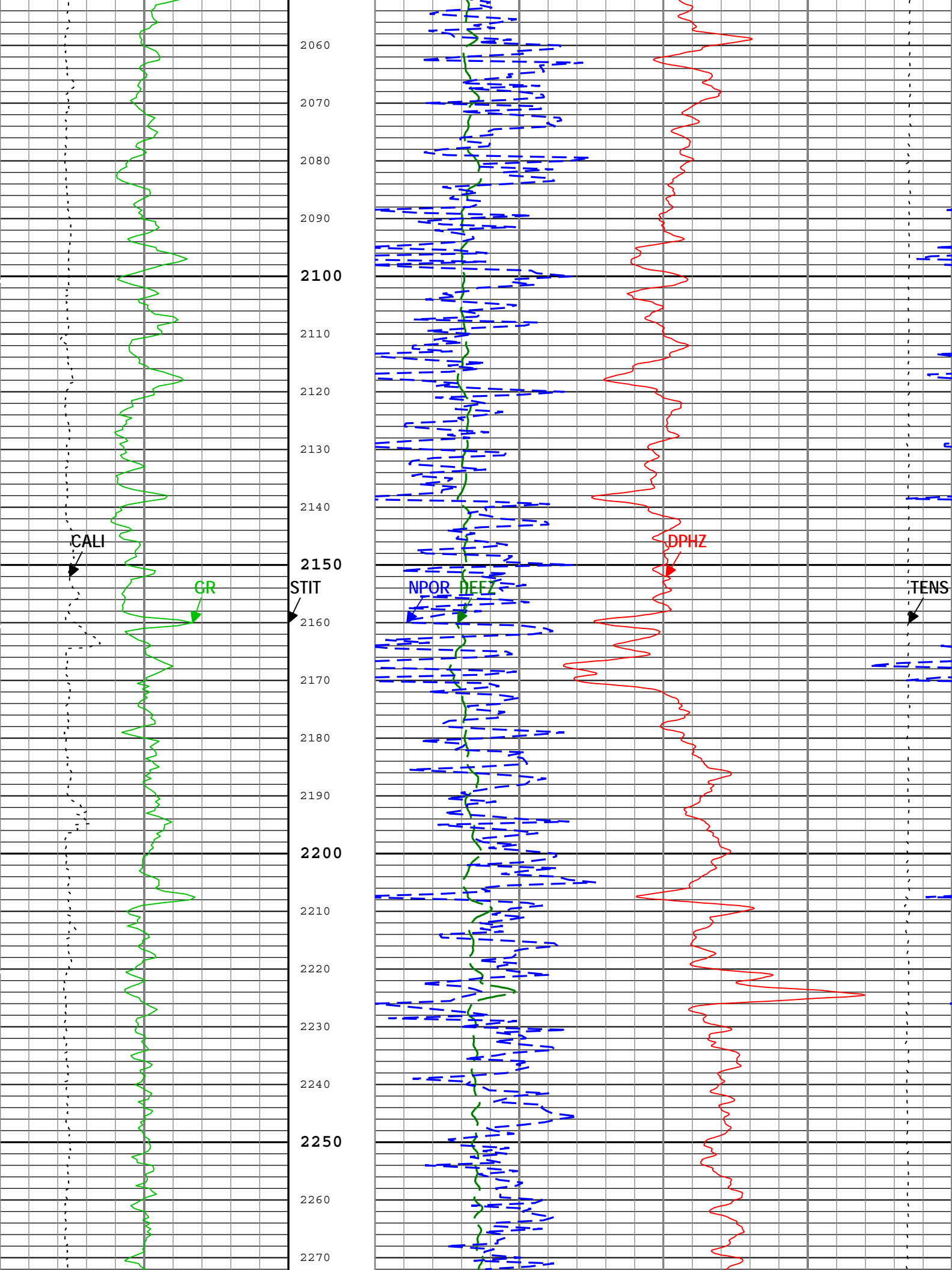


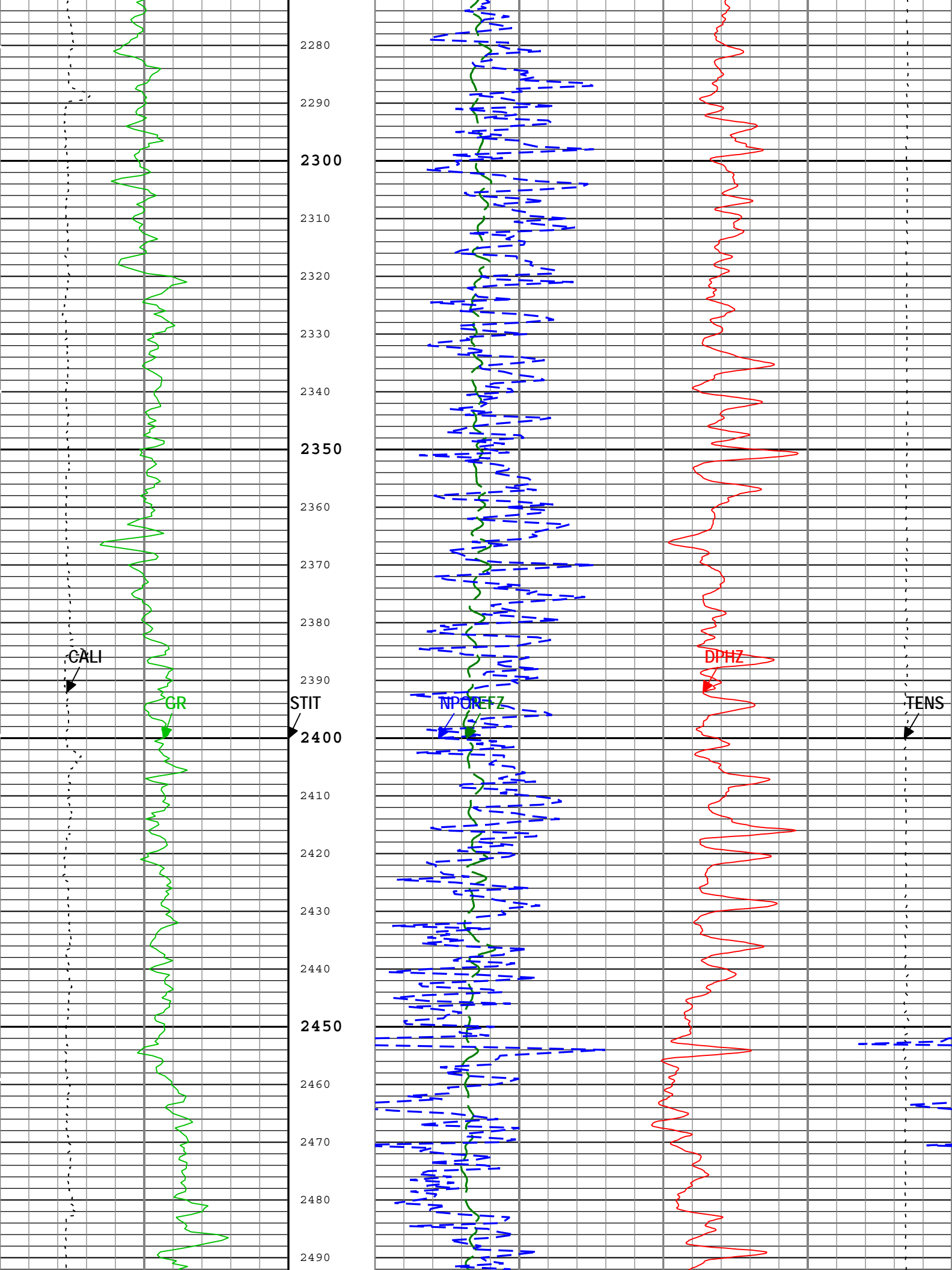


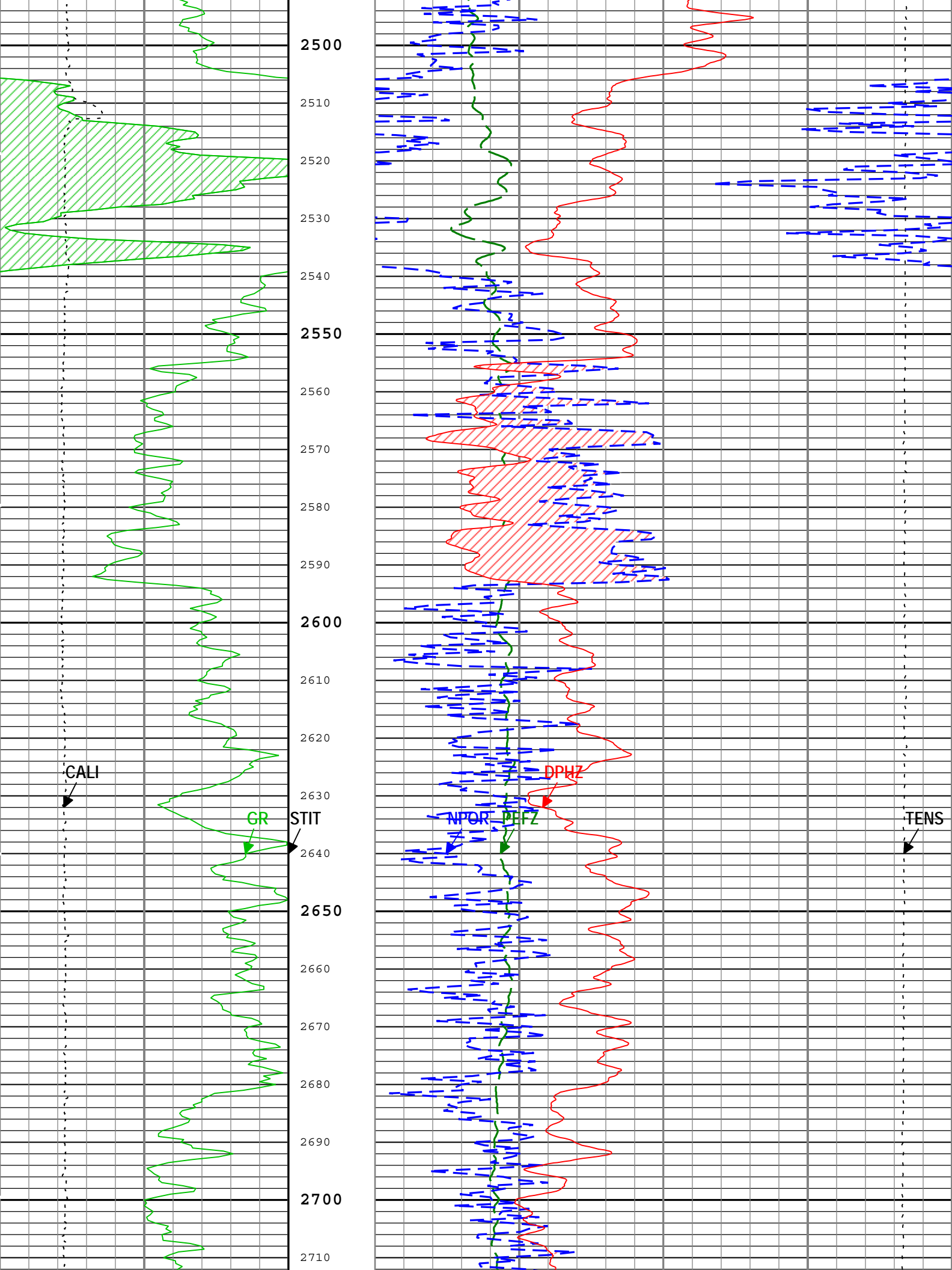


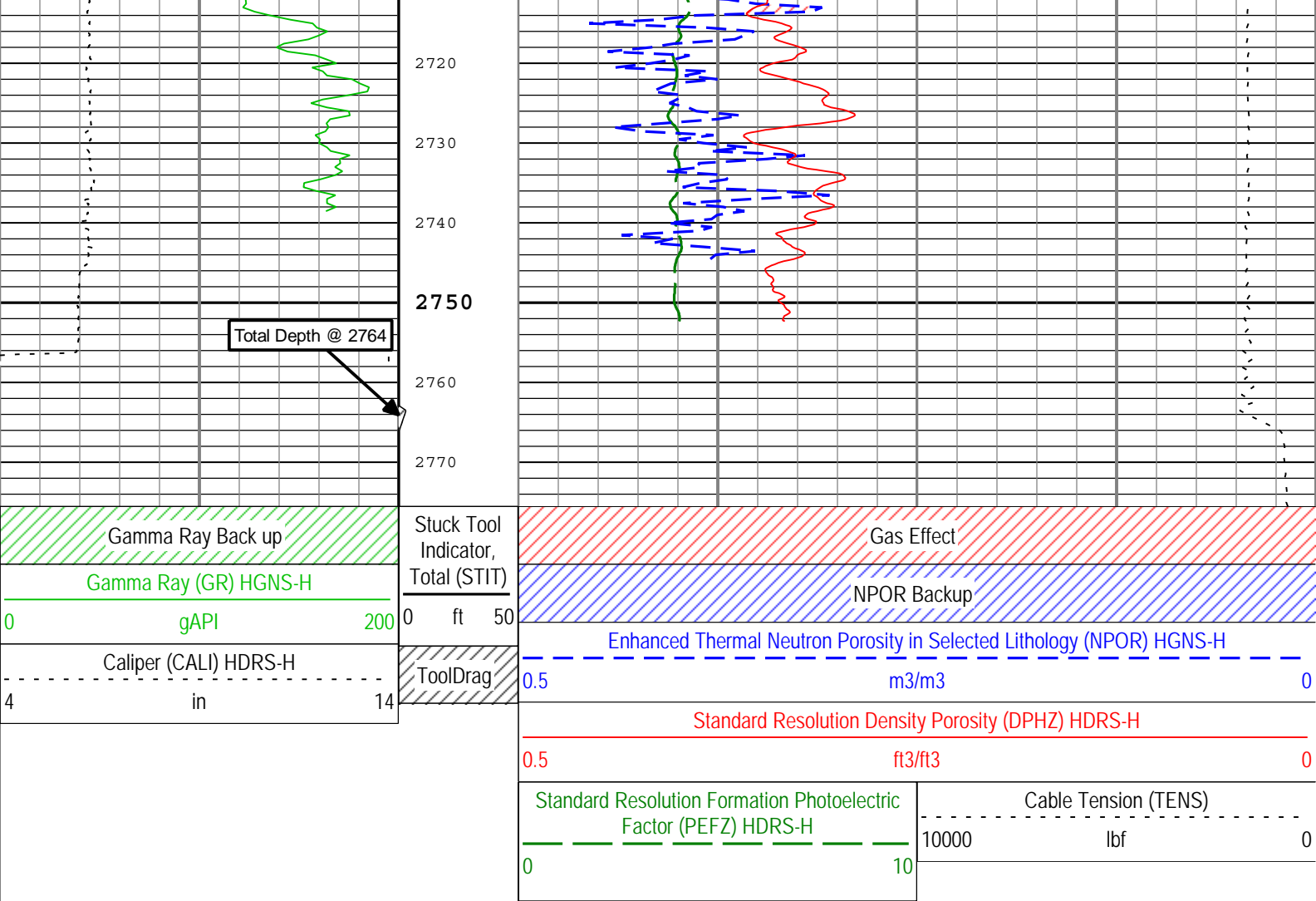












TIME_1900 - Time Marked every 60.00 (s)

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: 06-Dec-2014 14:39:45

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	112.19	degF
BS	Bit Size	WLSESSION	6.25	in
BSAL	Borehole Salinity	Borehole	0	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	-0.02	in
CBLO	Casing Bottom (Logger)	WLSESSION	495	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.9	lbm/gal
DFT	Drilling Fluid Type	Borehole	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	

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

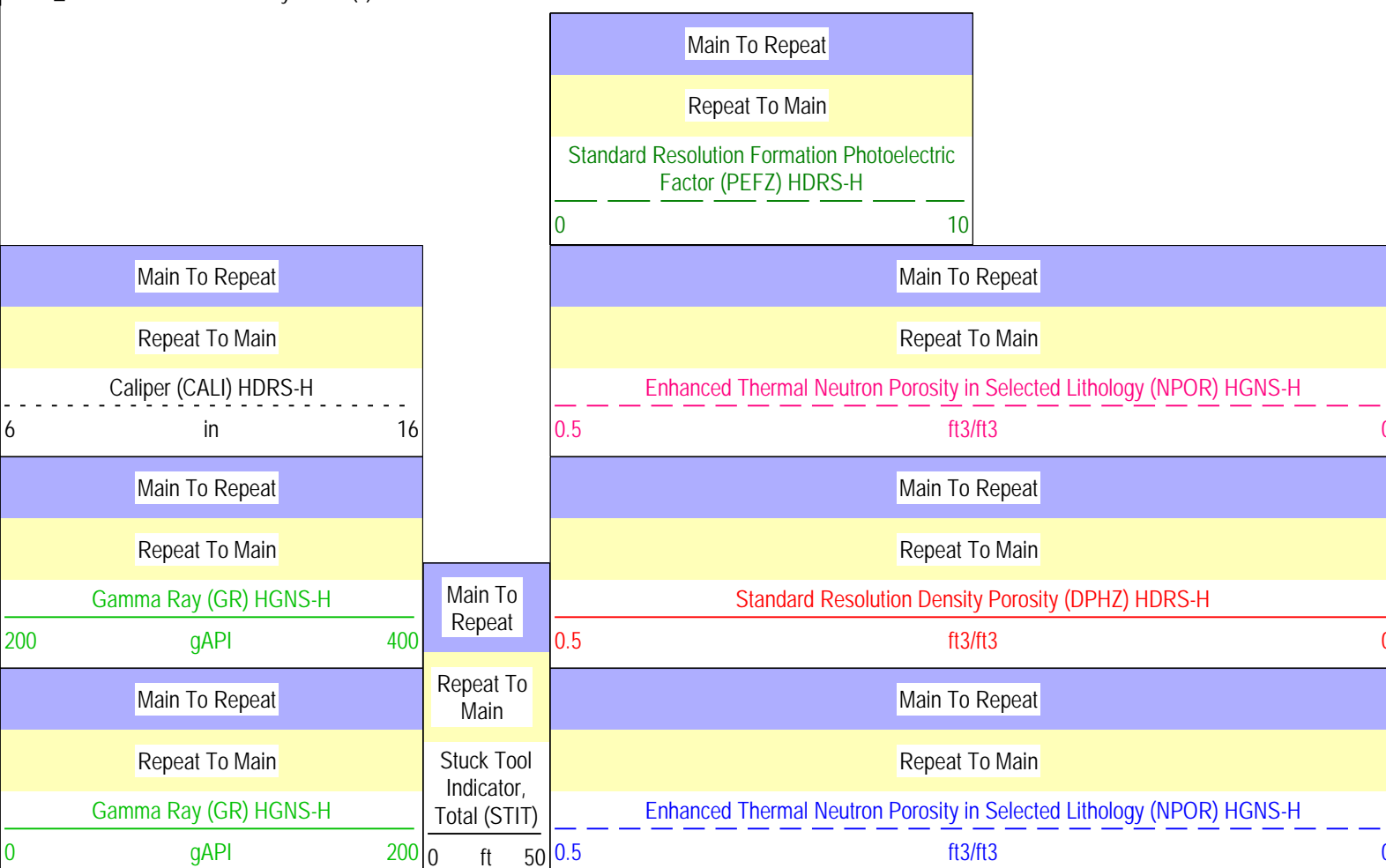
Porosity Repeat Analysis

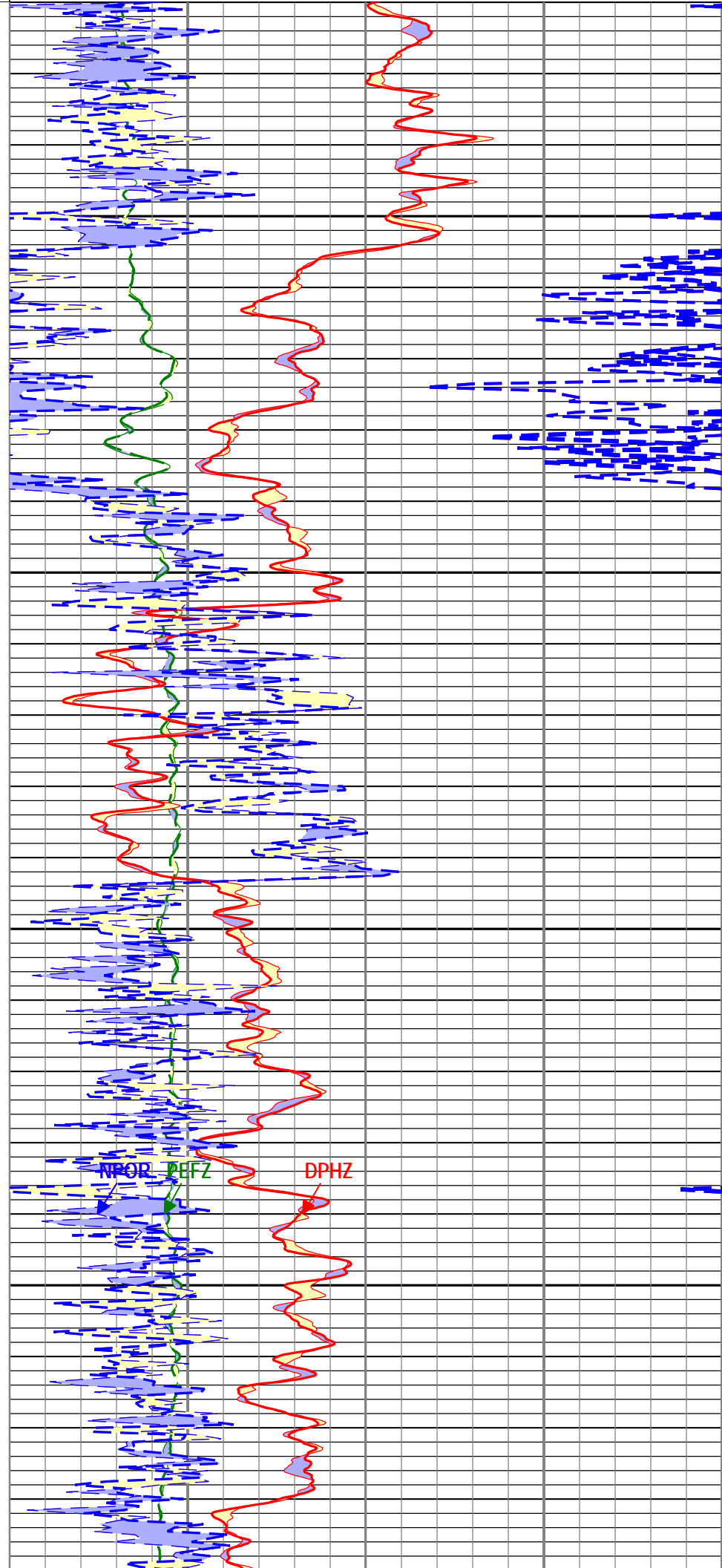
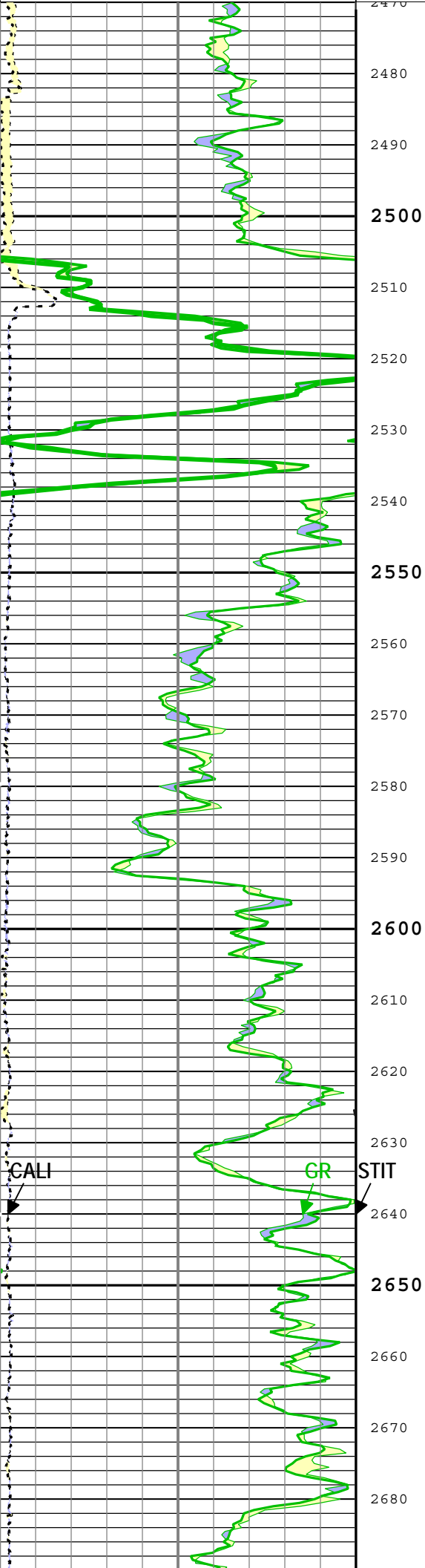
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Repeat[4]:Up	Up	2470.52 ft	2779.58 ft	06-Dec-2014 1:21:43 PM	06-Dec-2014 1:27:59 PM	ON	0.00 ft	Yes
Run 1	Main[5]:Up	Up	407.01 ft	2775.70 ft	06-Dec-2014 1:33:17 PM	06-Dec-2014 2:14:30 PM	ON	0.00 ft	Yes

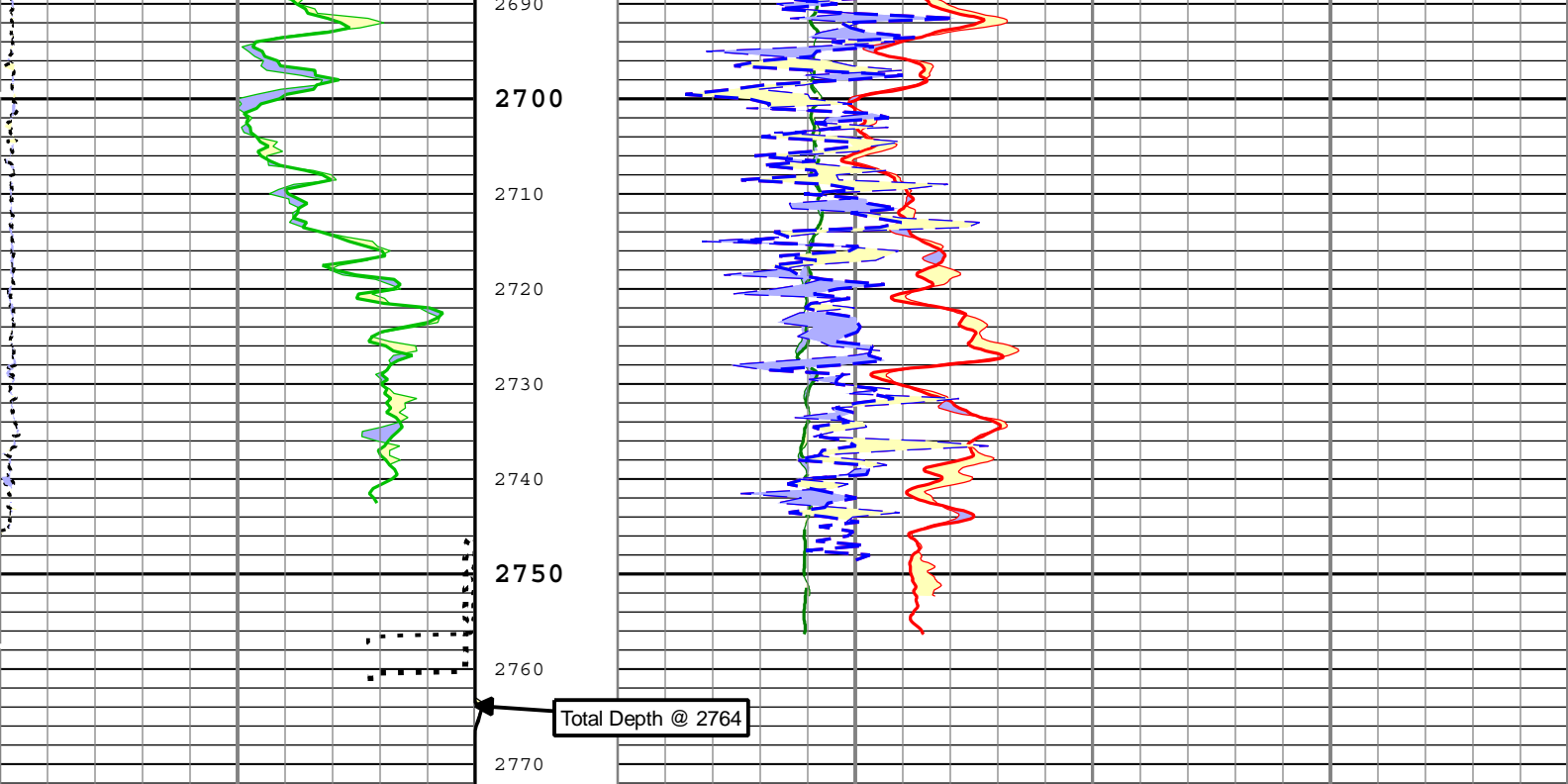
Log	Company: Omimex Petroleum Inc	Well: Denney State 5-36-7-45
		Run 1: Main[5]:Up:S004

Company:Omimex Petroleum Inc Well:Denney State 5-36-7-45
Run 1: Main[5]:Up:S004

TIME_1900 - Time Marked every 60.00 (s)







Main To Repeat		
Repeat To Main		
Caliper (CALI) HDRS-H		
6	in	16
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

Main To Repeat
Repeat To Main
Stuck Tool Indicator, Total (STIT)
0 ft 50

Main To Repeat		
Repeat To Main		
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H		
0.5	ft3/ft3	0
Main To Repeat		
Repeat To Main		
Standard Resolution Density Porosity (DPHZ) HDRS-H		
0.5	ft3/ft3	0
Main To Repeat		
Repeat To Main		
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H		
0.5	ft3/ft3	0
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: 06-Dec-2014 14:39:46

Software Version	
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Acquisition System		Version	
MaxWell		4.0.9163.3000	
Application Patch		Patch-SP-10767_18214-4.0.9163.3001	
		Patch-Hotfix_Task_Tree_GDI_SP2-20806-4.0.9434.3002	
Computation	Description	Version	
DepthCorrection	DepthCorrection	4.0.9433.3000	
Tool Elements	Description	Software Version	Firmware Version
HRCC-H	HILT High-Resolution Control Cartridge, 150 degC	4.0.9575.3000	2.0
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC	4.0.9575.3000	2.0
HRGD-H	HILT Resistivity Gamma-Ray Density Device, 150 degC	4.0.9575.3000	3.0

Pass Summary	
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Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Main[5]:Up	Up	407.01 ft	2775.70 ft	06-Dec-2014 1:33:17 PM	06-Dec-2014 2:14:30 PM	ON	0.00 ft	Yes

All depths are referenced to toolstring zero

Log	Company:Omimex Petroleum Inc	Well:Denney State 5-36-7-45
		Run 1: Main[5]:Up:S004

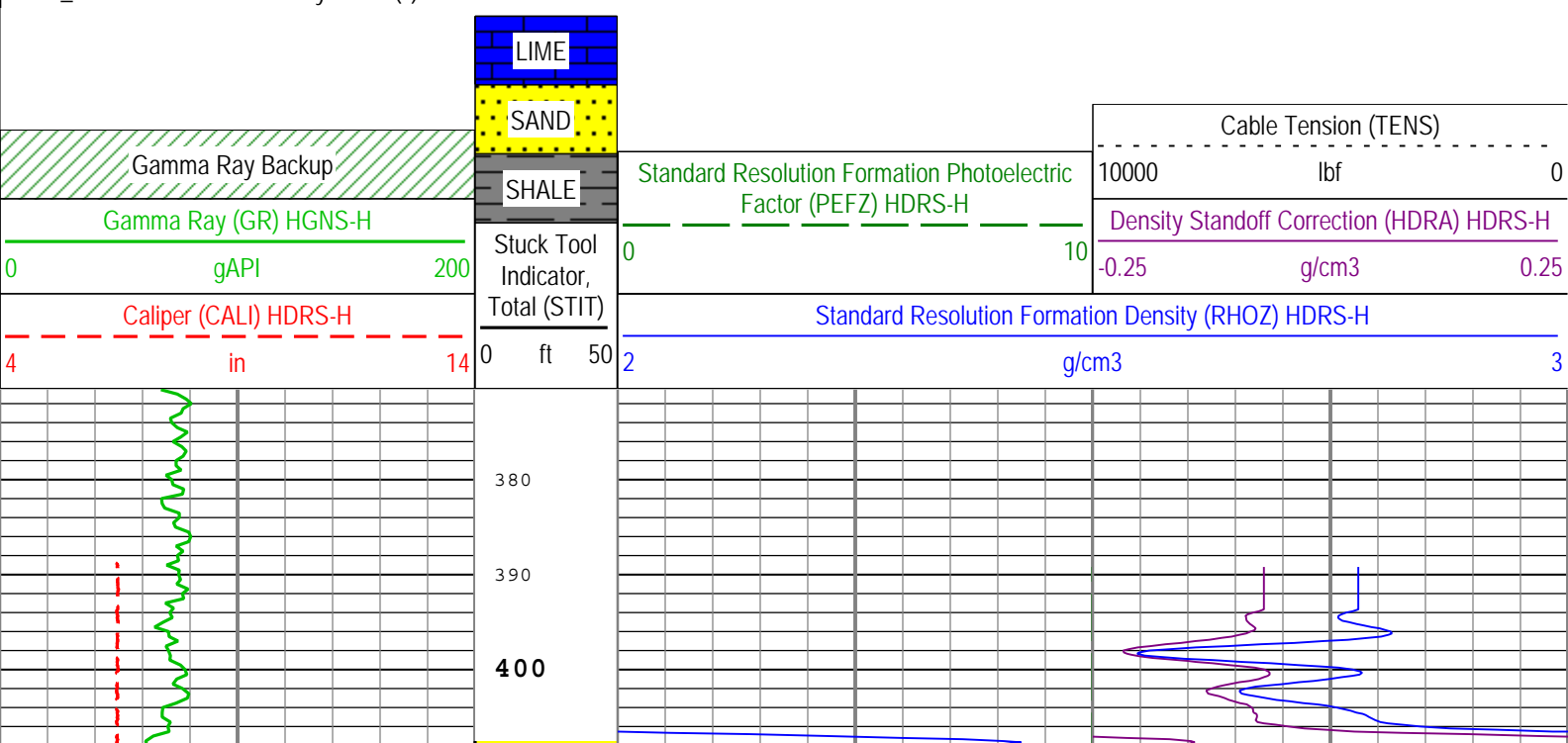
Well:Denney State 5-36-7-45

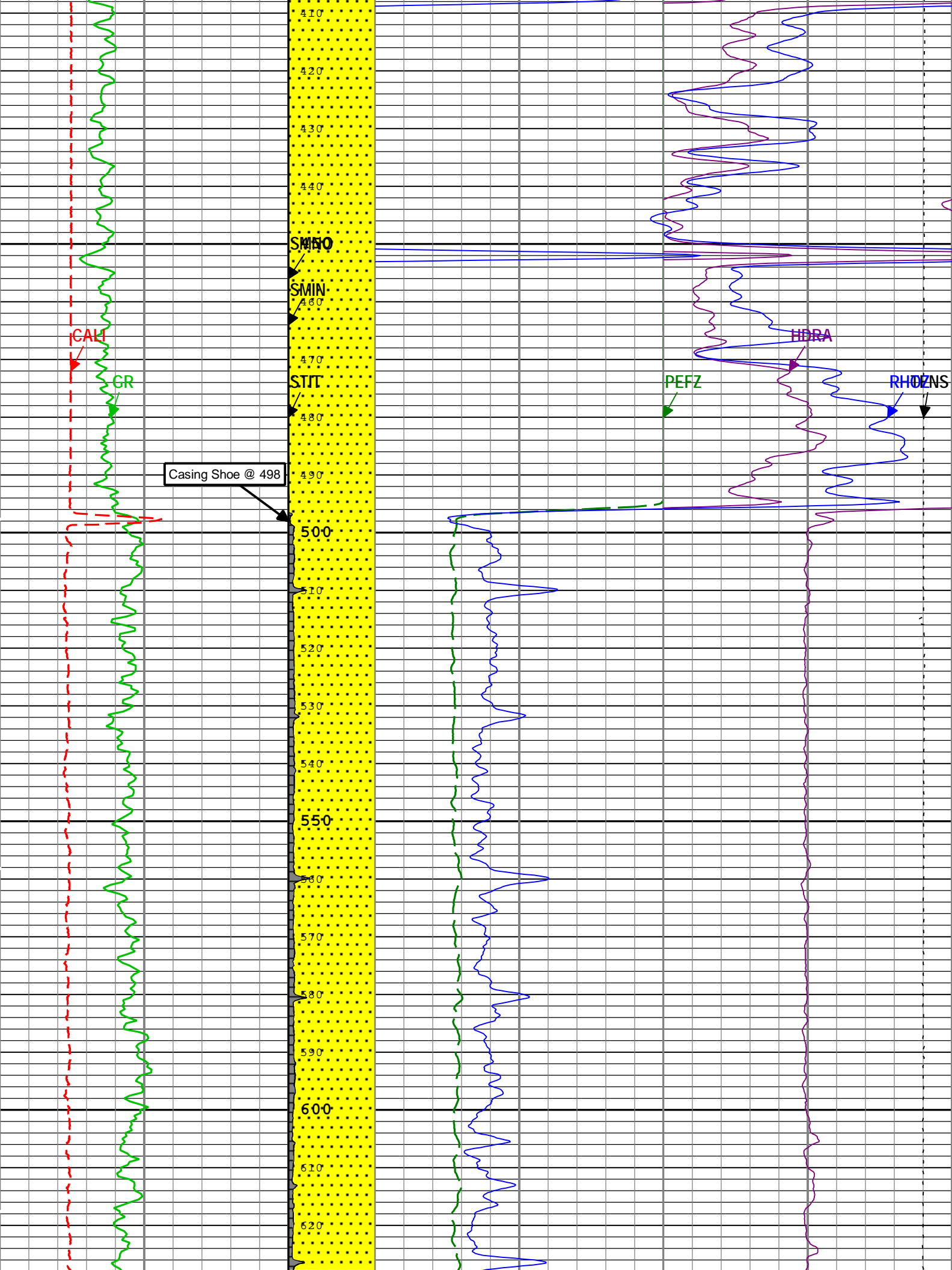
Run 1: Main[5]:Up:S004

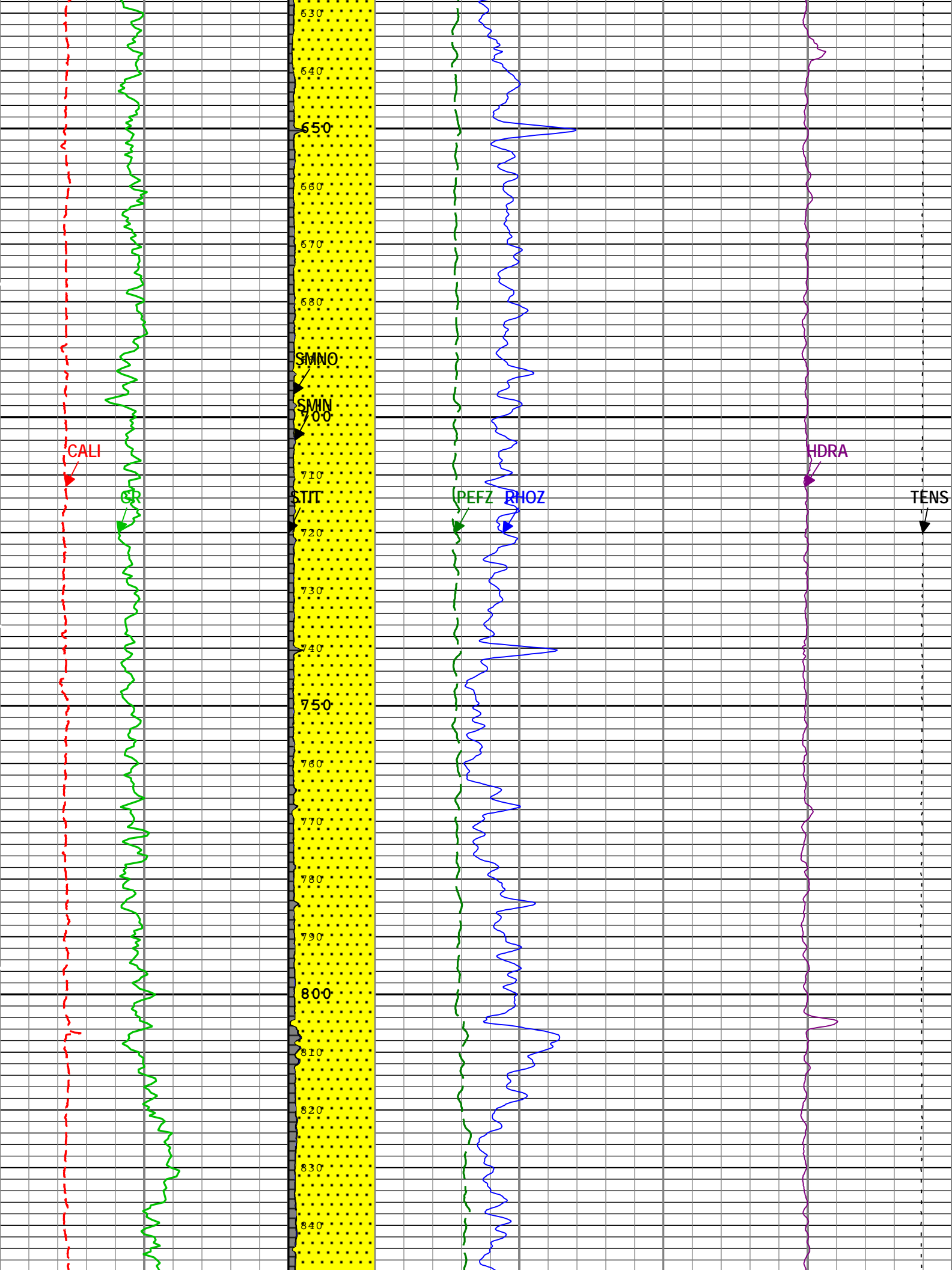
Description: HGNS standard resolution porosities for Platform Express		Format: Log (EMD 5in Density)	Index Scale: 5 in per 100 ft	Index Unit: ft	Index
Type: Measured Depth	Creation Date: 06-Dec-2014 14:39:47				

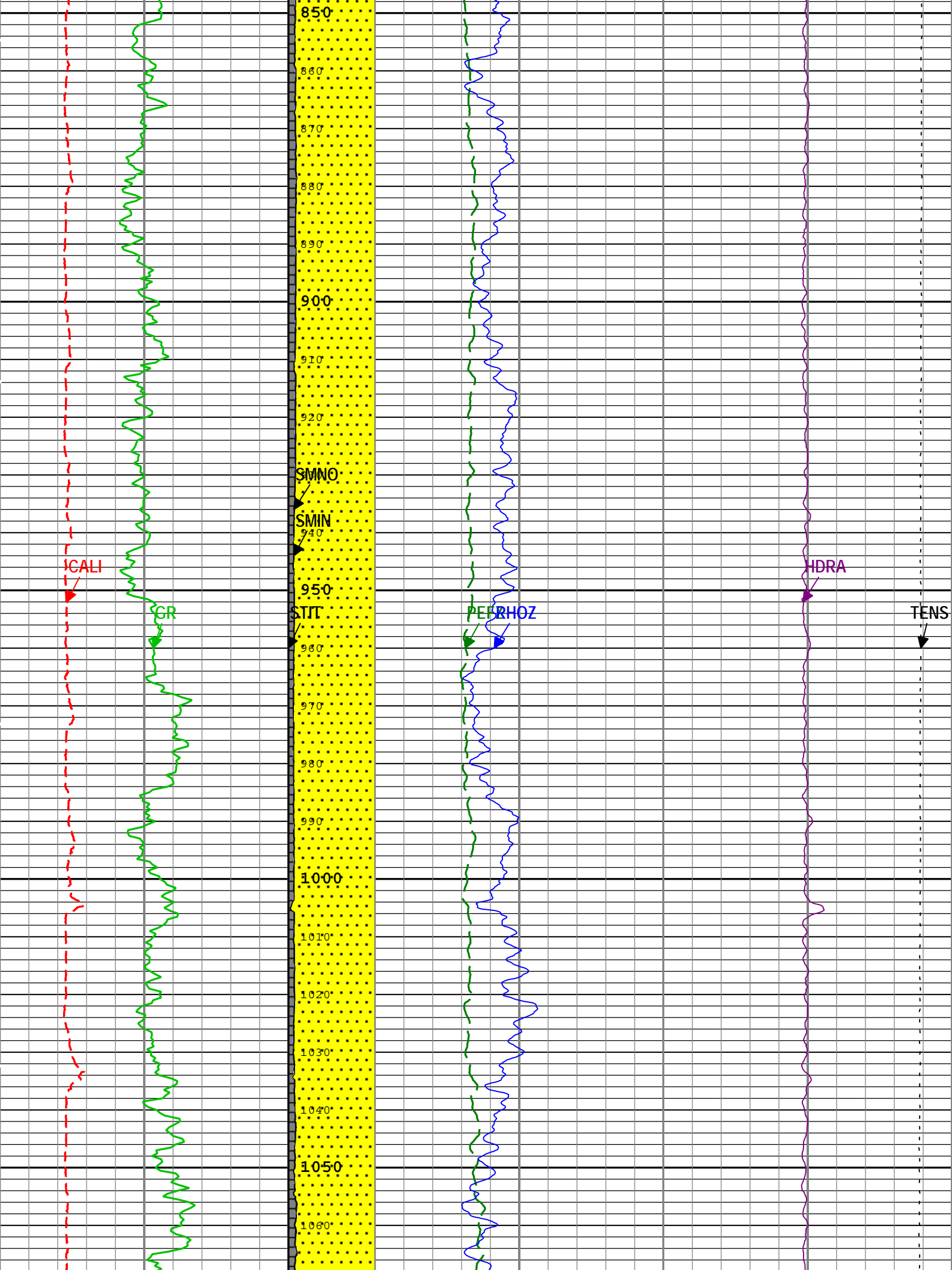
Channel	Source	Sampling
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR	HGNS-H:HGNS-H:HGNS-H	6in
HDRA	HDRS-H:HRMS-H:HRGD-H	2in
PEFZ	HDRS-H:HRMS-H:HRGD-H	2in
RHOZ	HDRS-H:HRMS-H:HRGD-H	2in
SMIN	HDRS-H:HRMS-H:HRGD-H	2in
SMNO	HDRS-H:HRMS-H:HRGD-H	2in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

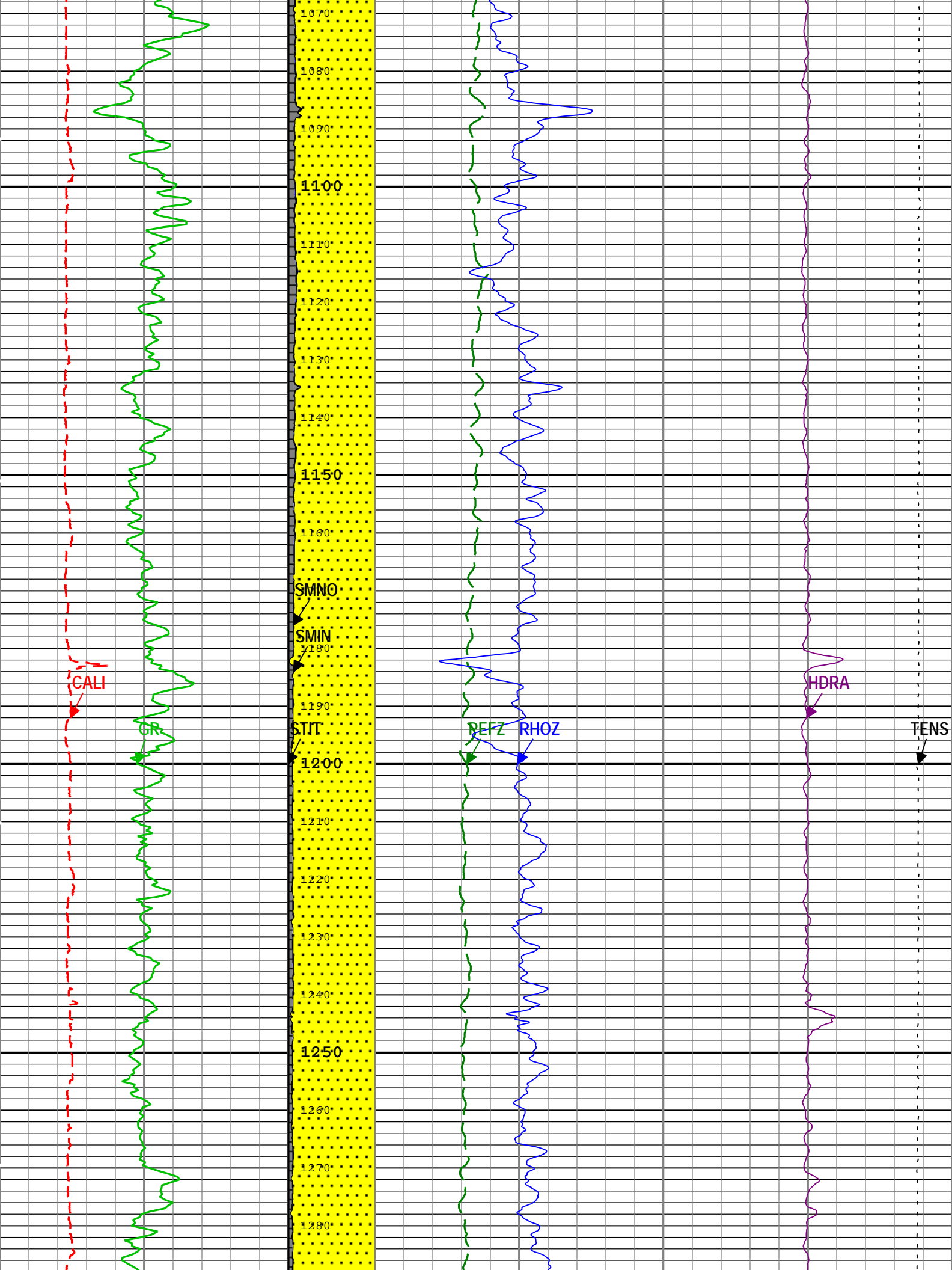
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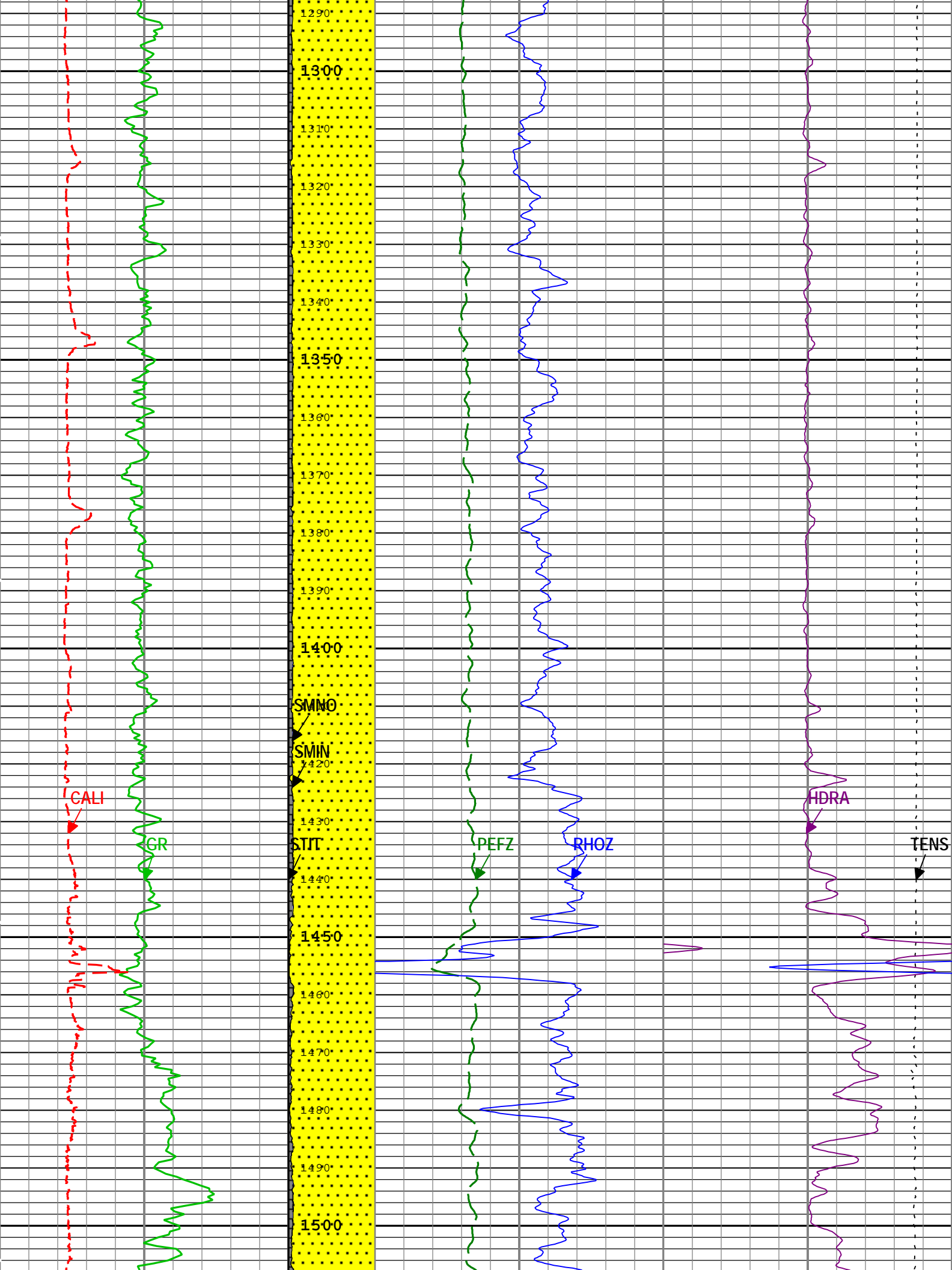


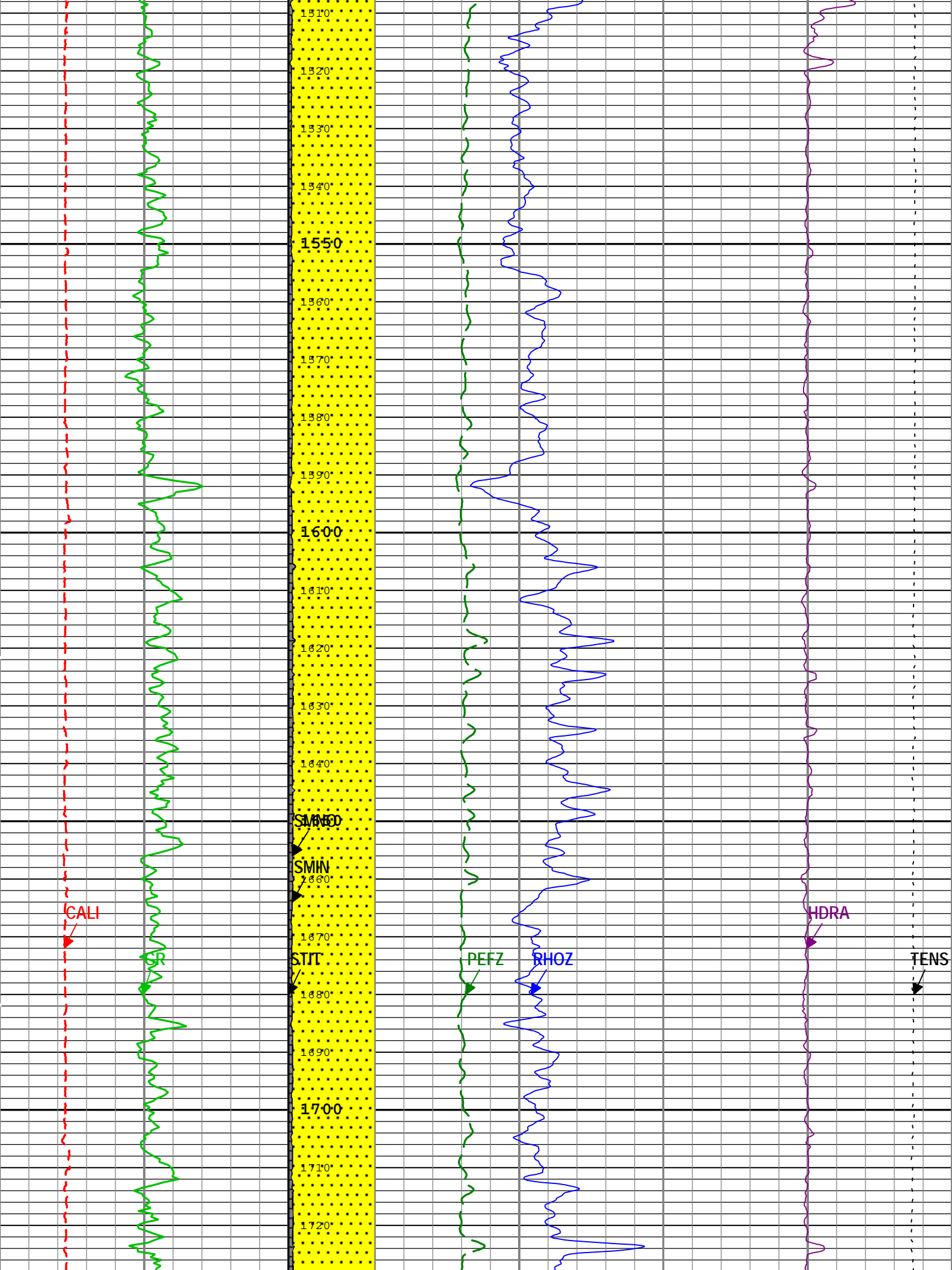


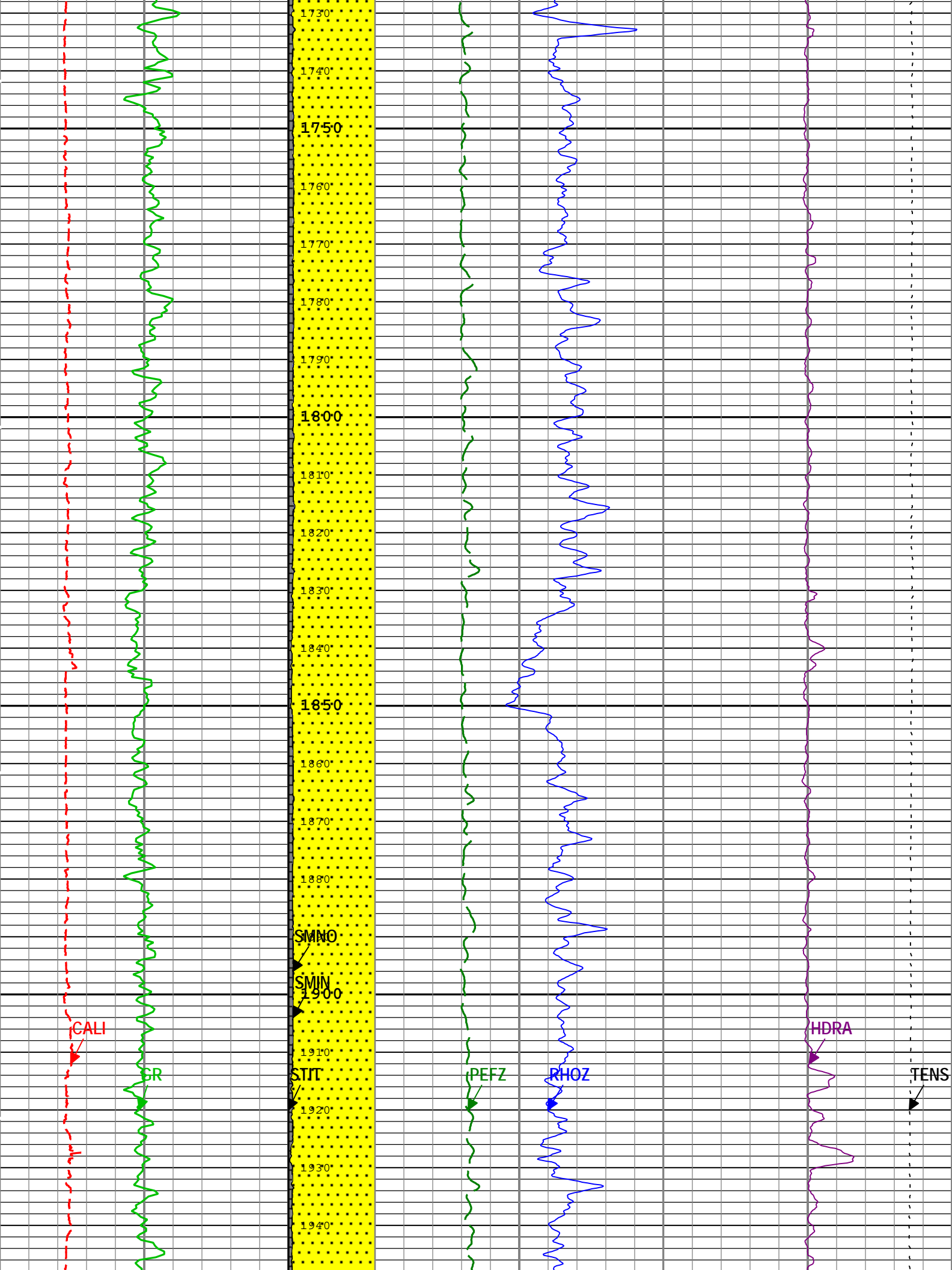


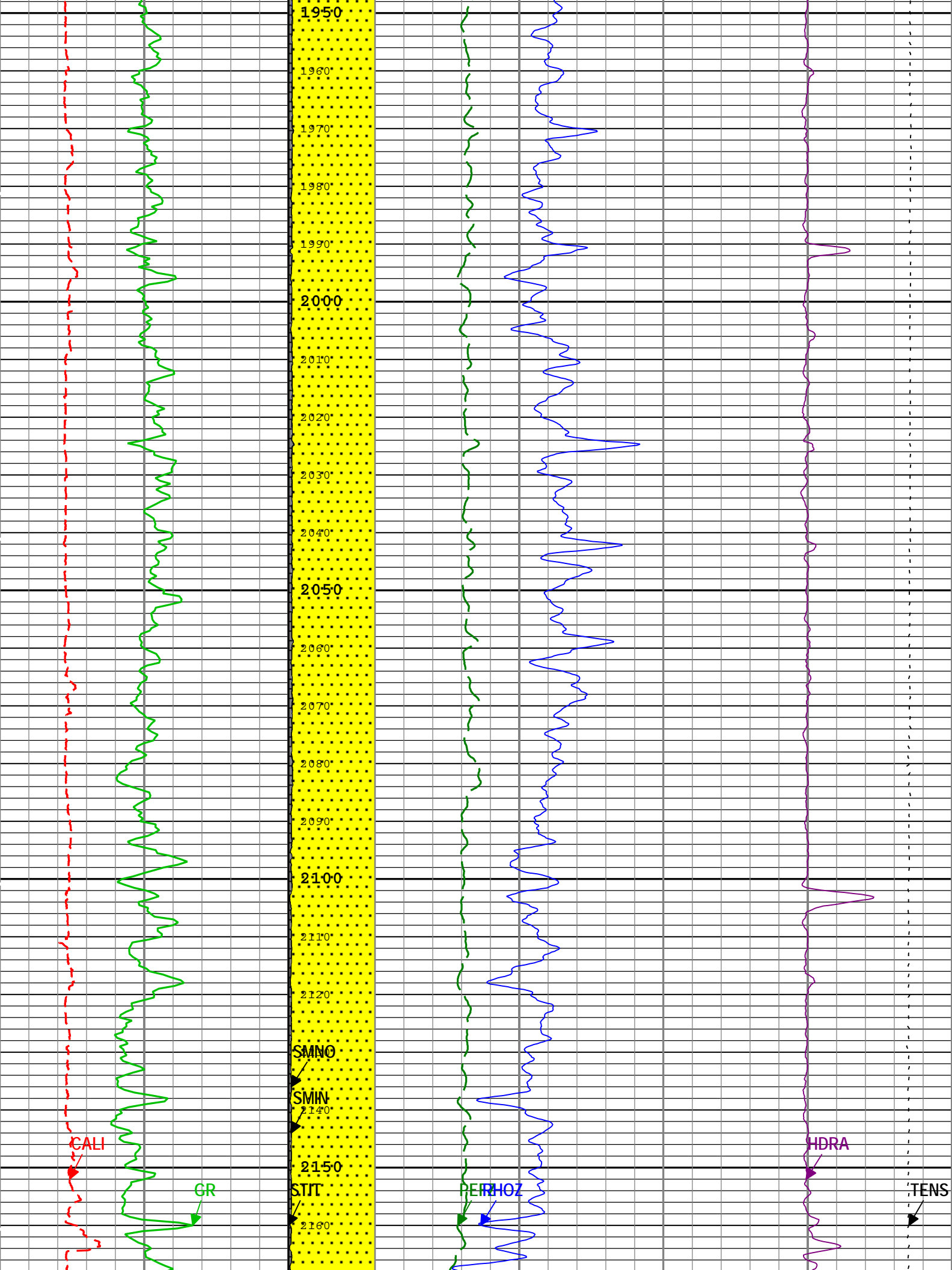


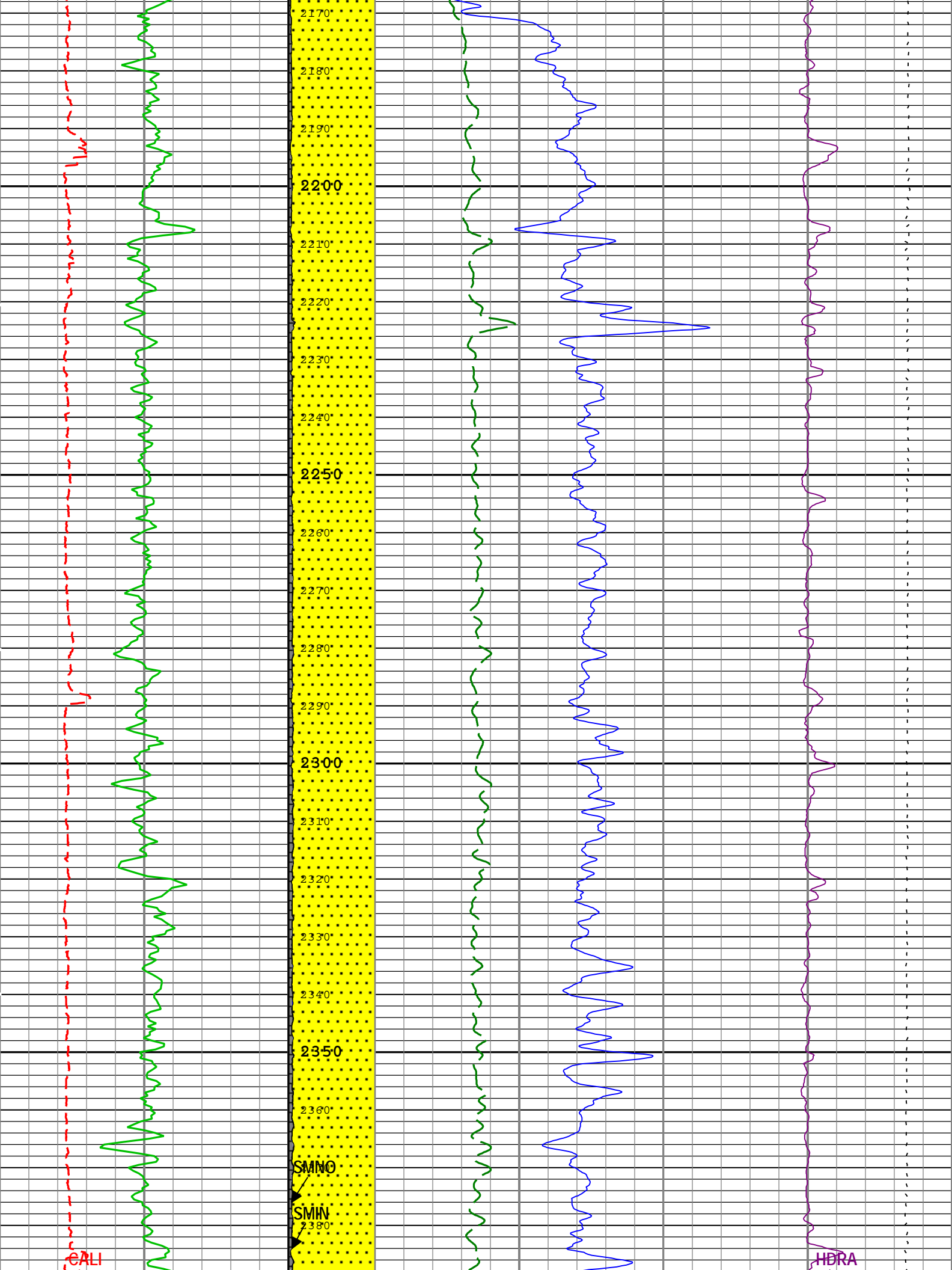


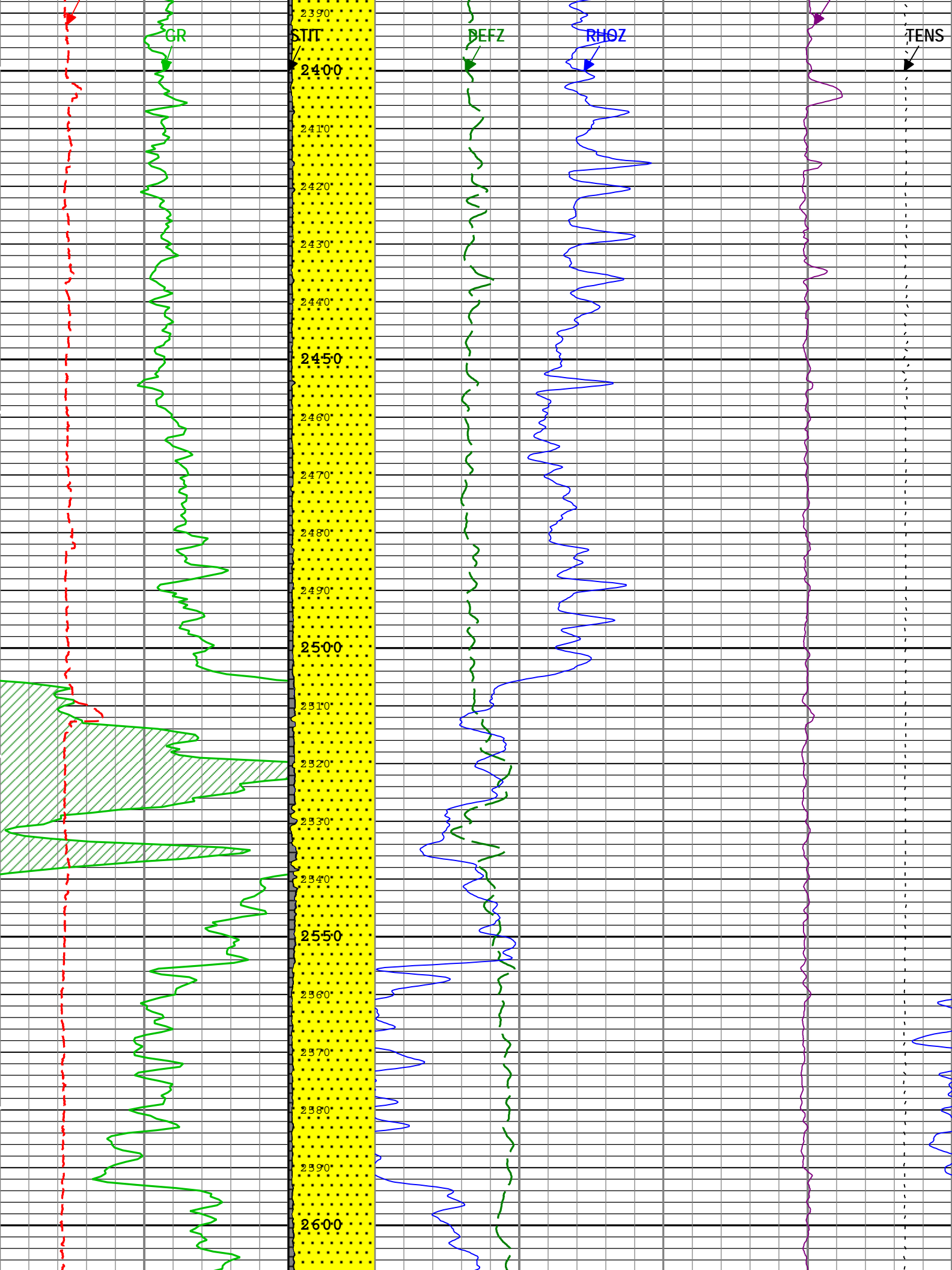


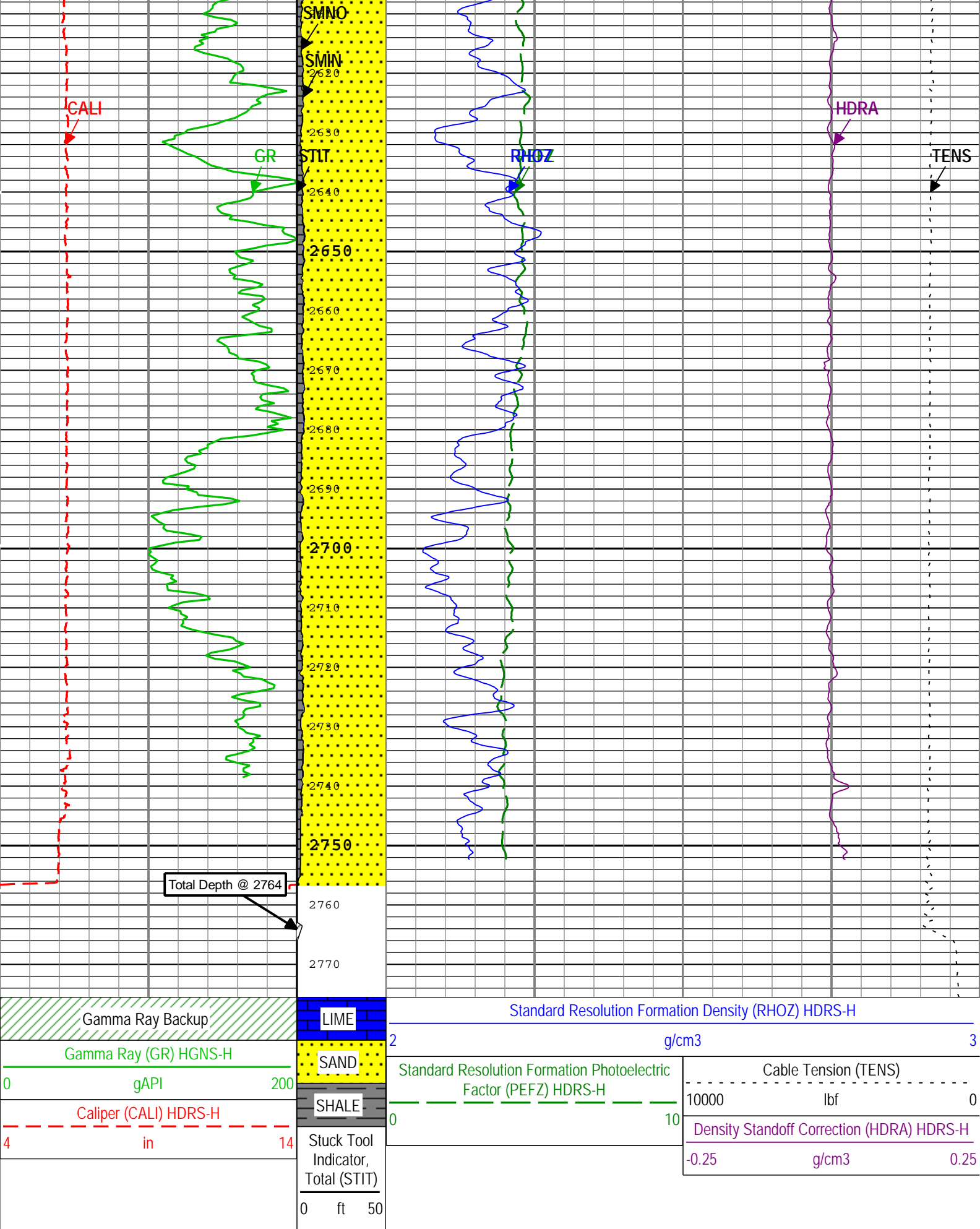












Channel Processing Parameters

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	6.25	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	-0.02	in
CBLO	Casing Bottom (Logger)	WLSESSION	495	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.9	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	2764	ft

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

Calibration Report

HDRS-H (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1

Primary Equipment :							
	HILT High-Resolution Control Cartridge, 150 degC	HRCC-H		4923			
	HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H		3933			
Auxiliary Equipment :							
	HRDD Backscatter Detector	Backscatter					
	HRDD Long Spacing Detector	Long Spacing		28736			
	HRDD Short Spacing Detector	Short Spacing					
	Cesium 137 Gamma-Ray Logging Source	GSR-J		5094			
Calibration Parameter :							
	Small Ring Size (Caliper Calibration Small Ring)	8.00					
	Large Ring Size (Caliper Calibration Large Ring)	12.00					

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured):		09:28:05 06-Dec-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	7.56	10.00	
Large Ring	in	Before	12.00	9.00	11.83	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM):		12:46:24 19-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.593	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.690	1.696	
Pe Aluminum		Master	2.570	2.470	2.570	2.670	
Pe Magnesium		Master	2.650	2.550	2.591	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM):		12:46:24 19-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.4612	0.6000	
BS Max Deviation	%	Master	0	-1.6000	1.0740	1.6000	
BS Min Deviation	%	Master	0	-1.6000	0.6754	1.6000	

SS Average Deviation	%	Master	0	-1.0000	0.2751	1.0000	
SS Max Deviation	%	Master	0	-2.5000	0.7133	2.5000	
LS Average Deviation	%	Master	0	-1.5000	1.0852	1.5000	
LS Max Deviation	%	Master	0	-3.5000	3.1061	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM):		12:46:24 19-Nov-2014		Before (Measured):		09:26:17 06-Dec-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7489		
		Before	0.7489	0.7114	0.7474	0.7863	
		Before-Master	-----	-----	-0.0015	-----	
BS Window Sum	1/s	Master	1		23293		
		Before	23293	22128	23278	24458	
		Before-Master	-----	-----	-15	-----	
SS Window Ratio		Master	1.0000		0.4872		
		Before	0.4872	0.4628	0.4878	0.5116	
		Before-Master	-----	-----	0.0006	-----	
SS Window Sum	1/s	Master	1		10907		
		Before	10907	10361	10912	11452	
		Before-Master	-----	-----	5	-----	
LS Window Ratio		Master	1.0000		0.3004		
		Before	0.3004	0.2854	0.2970	0.3154	
		Before-Master	-----	-----	-0.0034	-----	
LS Window Sum	1/s	Master	1		1191		
		Before	1191	1131	1191	1250	
		Before-Master	-----	-----	0	-----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM):		12:46:24 19-Nov-2014		Before (Measured):		09:26:17 06-Dec-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1635	2400	
		Before		1000	1623	2400	
		Before-Master	-----	-100	-12	100	
SS PM High Voltage	V	Master		1000	1496	2400	
		Before		1000	1514	2400	
		Before-Master	-----	-100	18	100	
LS PM High Voltage	V	Master		1000	1283	2400	
		Before		1000	1280	2400	
		Before-Master	-----	-100	-3	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM):		12:46:24 19-Nov-2014		Before (Measured):		09:26:17 06-Dec-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.91	25.00	
		Before		5.00	10.81	25.00	
		Before-Master	-----	-1.00	-0.10	1.00	
SS Crystal Resolution	%	Master		5.00	9.66	20.00	
		Before		5.00	9.76	20.00	
		Before-Master	-----	-1.00	0.10	1.00	
LS Crystal Resolution	%	Master		5.00	8.11	20.00	
		Before		5.00	8.11	20.00	
		Before-Master	-----	-1.00	0.00	1.00	

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured):		13:21:22 06-Dec-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3882	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3810	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3833	4136	

HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run 1

Primary Equipment :			
	HILT Gamma-Ray and Neutron Sonde, 150 degC	HGNS-H	4810
Auxiliary Equipment :			
	HGNS Accelerometer, 150 degC	HACCZ-H	5955
	AmBe Neutron Logging Source	NSR-F	5215

Calibration Parameter :

Water Temperature

Housing Size

JIG-BKG (Jig minus background reference)

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HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured): 13:01:18 06-Dec-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	ft/s2	Before	32.2	31.5	32.1	32.8	

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (Manual Entry): 00:00:00 15-Jan-2007

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			QAT_160		
Accelerometer Reference Temperature	degF	Master		30.2	77.0	122.0	
Accelerometer Coefficients - 0		Master	----	----	1155.700	----	
Accelerometer Coefficients - 1		Master	----	----	26.890	----	
Accelerometer Coefficients - 2		Master	----	----	-0.008	----	
Accelerometer Coefficients - 3		Master	----	----	0.000	----	
Accelerometer Coefficients - 4		Master	----	----	2.748	----	
Accelerometer Coefficients - 5		Master	----	----	0.000	----	
Accelerometer Coefficients - 6		Master	----	----	0.000	----	
Accelerometer Coefficients - 7		Master	----	----	0.000	----	
Accelerometer Coefficients - 8		Master	----	----	298.600	----	
Accelerometer Coefficients - 9		Master	----	----	0.983	----	

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (Manual Entry): 10:43:32 31-Oct-2014

Before (Measured):

09:23:55 06-Dec-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement - 0	1/s	Master	----	----	----	----	
		Before	0	5.0	25.0	40.0	
		Before-Master	----	----	----	----	
Far Zero Measurement - 0	1/s	Master	----	----	----	----	
		Before	0	5.0	28.1	40.0	
		Before-Master	----	----	----	----	
Near Plus Measurement - 0	1/s	Master	----	----	----	----	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Far Plus Measurement - 0	1/s	Master	----	----	----	----	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Near Corrected Plus Measurement	1/s	Master	----	4700.0	5330.0	6900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Far Corrected Plus Measurement	1/s	Master	----	1900.0	2259.0	2900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured): 09:32:35 06-Dec-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	143.6	120.0	
RGR Plus Measurement	gAPI	Before	185.4	157.1	173.3	206.3	
GR Calibration Gain		Before	0.89	0.80	0.95	1.05	

Company:	Omimex Petroleum Inc	Schlumberger
Well:	Denney State 5-36-7-45	
Field:	Holyoke South	
County:	Phillips	
State:	Colorado	
Platform Express		
Compensated Neutron Log		
LithoDensity		