

Company: Ominex Petroleum Inc.

Well: Gueck 10-19-7-44

Field: Holyoke South

County: Weld State: Colorado

Platform Express

Compensated Neutron Log

LithoDensity

County: Weld

Field: Holyoke South

Location: NWSE: Sec. 19, T7N, R44W

Well: Gueck 10-19-7-44

Company: Ominex Petroleum Inc.

Location:

NWSE: Sec. 19, T7N, R44W

Elev.: K.B. 3753.00 ft

SHL: 2000' FSL & 2251' FEL

G.L. 3747.00 ft

Lat/Long: 40.562070/-102.310140

D.F. 3752.50 ft

Permanent Datum:

Ground Level

Elev.: 3747.00 f

Log Measured From:

Kelly Bushing

6.00 ft

Drilling Measured From:

Kelly Bushing

above Perm.Datum

API Serial No.

Section: 19

Township: 7N

Range: 44W

05-095-06468-0000

Logging Date

24-Nov-2014

Run Number

ONE

Depth Driller

2726.00 ft

Schlumberger Depth

2726.00 ft

Bottom Log Interval

2727.50 ft

Top Log Interval

498.00 ft

Casing Fluid Type

WBM

Salinity

13300 ppm

Density

8.8 lbm/gal

Fluid Level

8.00 ft

BIT/CASING/TUBING STRING

Bit Size

6.25 in

From

0.00 ft

To

2726.00 ft

Casing/Tubing Size

7 in

Weight

17 lbm/ft

Grade

N/A

From

0.00 ft

To

498.00 ft

Max Recorded Temperatures

98.75 degF

Logger on Bottom

24-Nov-2014

01:00:00

Unit Number

3022

Location:

Fort Morgan, CO

Recorded By

Nolan Welsh

Witnessed By

Paul Dekaye

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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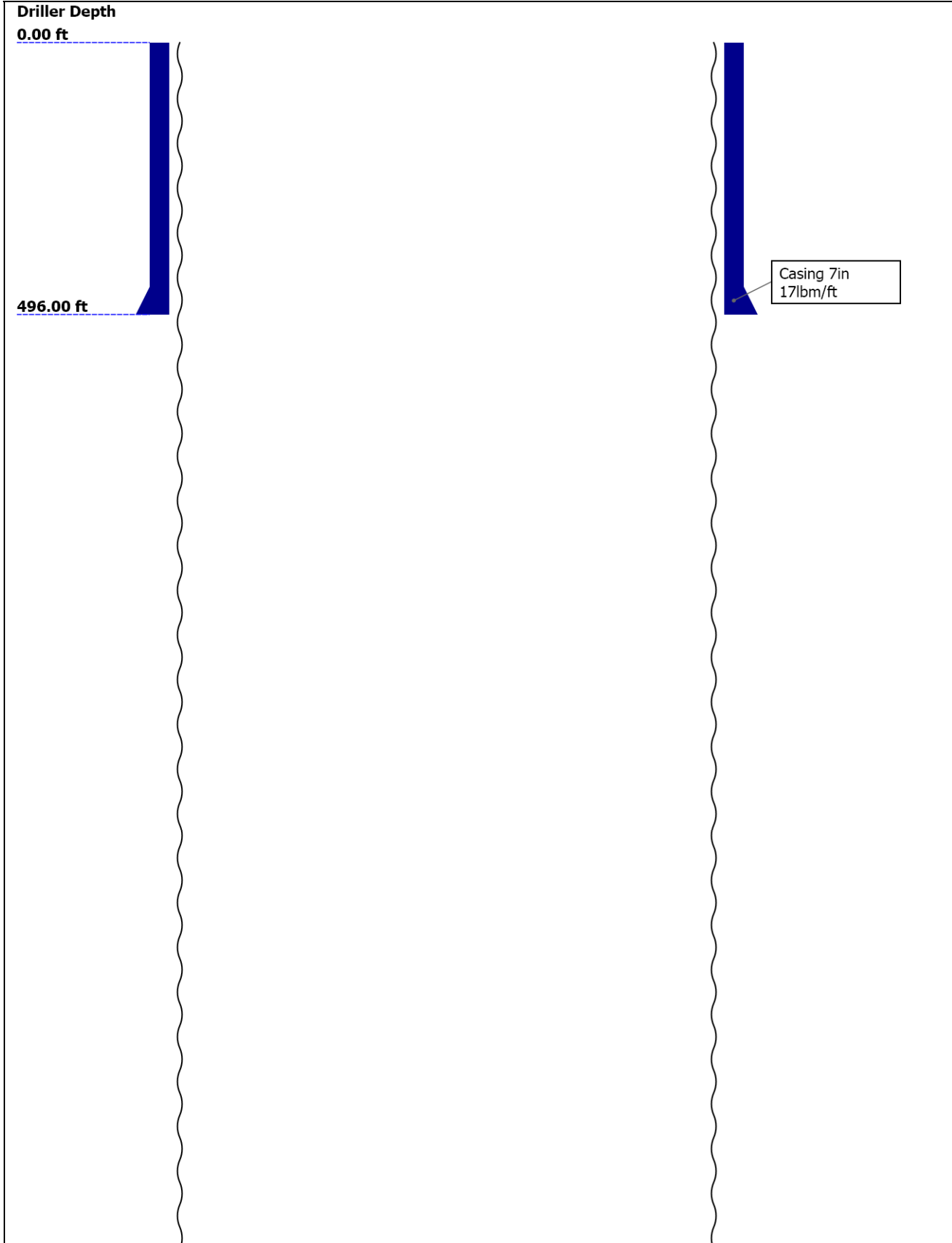
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Well Sketch



2726.00 ft

Open Hole 6.25in

Borehole Size/Casing/Tubing Record

Bit						
Bit Size ( in )	6.25					
Top Driller ( ft )	0					
Top Logger ( ft )	0					
Bottom Driller ( ft )	2726					
Bottom Logger ( ft )	2726					
Casing						
Size ( in )	7					
Weight ( lbm/ft )	17					
Inner Diameter ( in )	6.538					
Grade	N/A					
Top Driller ( ft )	0					
Top Logger ( ft )	0					
Bottom Driller ( ft )	496					
Bottom Logger ( ft )	498					

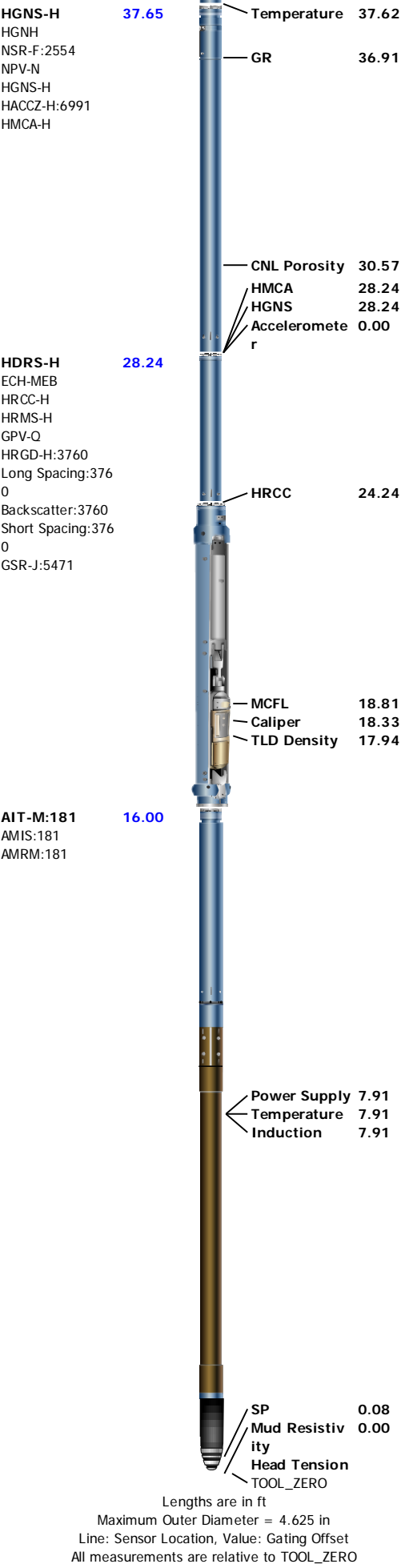
Operational Run Summary

Parameter ( unit )	ONE					
Date Log Started	24-Nov-2014					
Time Log Started	13:45:13					
Date Log Finished	24-Nov-2014					
Time Log Finished	15:07:08					
Top Log Interval ( ft )	498.00					
Bottom Log Interval ( ft )	2727.50					
Total Depth ( ft )	2727.50					
Max Hole Deviation ( deg )	0.00					
Azimuth of Max Deviation ( deg )	0.00					
Bit Size ( in )	6.250					
Logging Unit Number	3022					
Logging Unit Location	Fort Morgan, CO					
Recorded By	Nolan Welsh					
Witnessed By	Paul Dekaye					
Service Order Number	CYBX-00065					

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Remarks and Equipment Summary						
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[illegible]

## Depth Summary

		ONE													
Depth Measuring Device															
Type				IDW-B											
Serial Number				5896											
Calibration Date				13-AUG-2014											
Calibrator Serial Number															
Calibration Cable Type				7-39PLXS											
Wheel Correction 1				-3											
Wheel Correction 2				-2											
Tension Device															
Type				CMTD-B/A											
Serial Number				1109											
Calibration Date				18-NOV-2014											
Calibrator Serial Number				441345A											
Number of Calibration Points				10											
Calibration Root Mean Square Error				36											
Calibration Peak Error				69											
Logging Cable															
Type				7-39P-LXS											
Serial Number															
Length				17750.00 ft											
Conveyance Type				Wireline											
Rig Type				Land											
ONE:Depth Control Parameters								Depth Control Remarks							
Log Sequence				First Log In the Well				All Schlumberger depth procedures followed.							
Rig Up Length At Surface								IDW used as primary depth control.							
Rig Up Length At Bottom								Z-Chart used as secondary depth control.							
Rig Up Length Correction															
Stretch Correction															
Tool Zero Check At Surface															
Survey Record															
Survey Calculation															
Method :				Minimum Radius of Curvature				DLS Method :				Lubinski			
North Reference :				True North				Total Correction Formula :				Magnetic Dec			
Rig Location															
Latitude :				40° 33' 43.452" N				Longitude :				102° 18' 36.504" W			
Tie In Point															
Measured Depth:		0.00 ft		Inclination:		0.00 deg		Azimuth:		0.00 deg					
True Vertical Depth:		0.00 ft		North Displacement:		0.00 ft		East Displacement:		0.00 ft					
Survey Quality Index															
9 : Manual				28 : Tie-In Point											
Survey Correction Index															
0 : No correction															
Survey Description Index															
0 : Not Flagged Survey															
Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/ -S (ft)	E/ -W (ft)	Closure (ft)	at Azim (deg)	DLS deg/100ft	Tool Type	QI	CI	DI
1	0.00	0.00	0.00	- - - -	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
2	26.00	0.39	140.49	26.00	26.00	-0.07	-0.07	0.06	0.10	140.49	1.52	GPIT-F	9	0	0
3	56.00	0.51	145.54	30.00	56.00	-0.26	-0.26	0.20	0.33	142.55	0.39	GPIT-F	9	0	0
4	86.00	0.64	189.46	30.00	86.00	-0.53	-0.53	0.25	0.59	155.24	1.48	GPIT-F	9	0	0
5	116.00	0.60	187.62	30.00	116.00	-0.85	-0.85	0.20	0.89	166.95	0.15	GPIT-F	9	0	0
6	146.00	0.32	245.90	30.00	145.99	-1.04	-1.04	0.10	1.05	174.48	1.69	GPIT-F	9	0	0
7	176.00	0.32	269.92	30.00	175.99	-1.07	-1.07	-0.06	1.08	183.14	0.44	GPIT-F	9	0	0
8	206.00	0.48	242.45	30.00	205.99	-1.13	-1.13	-0.25	1.15	192.62	0.82	GPIT-F	9	0	0

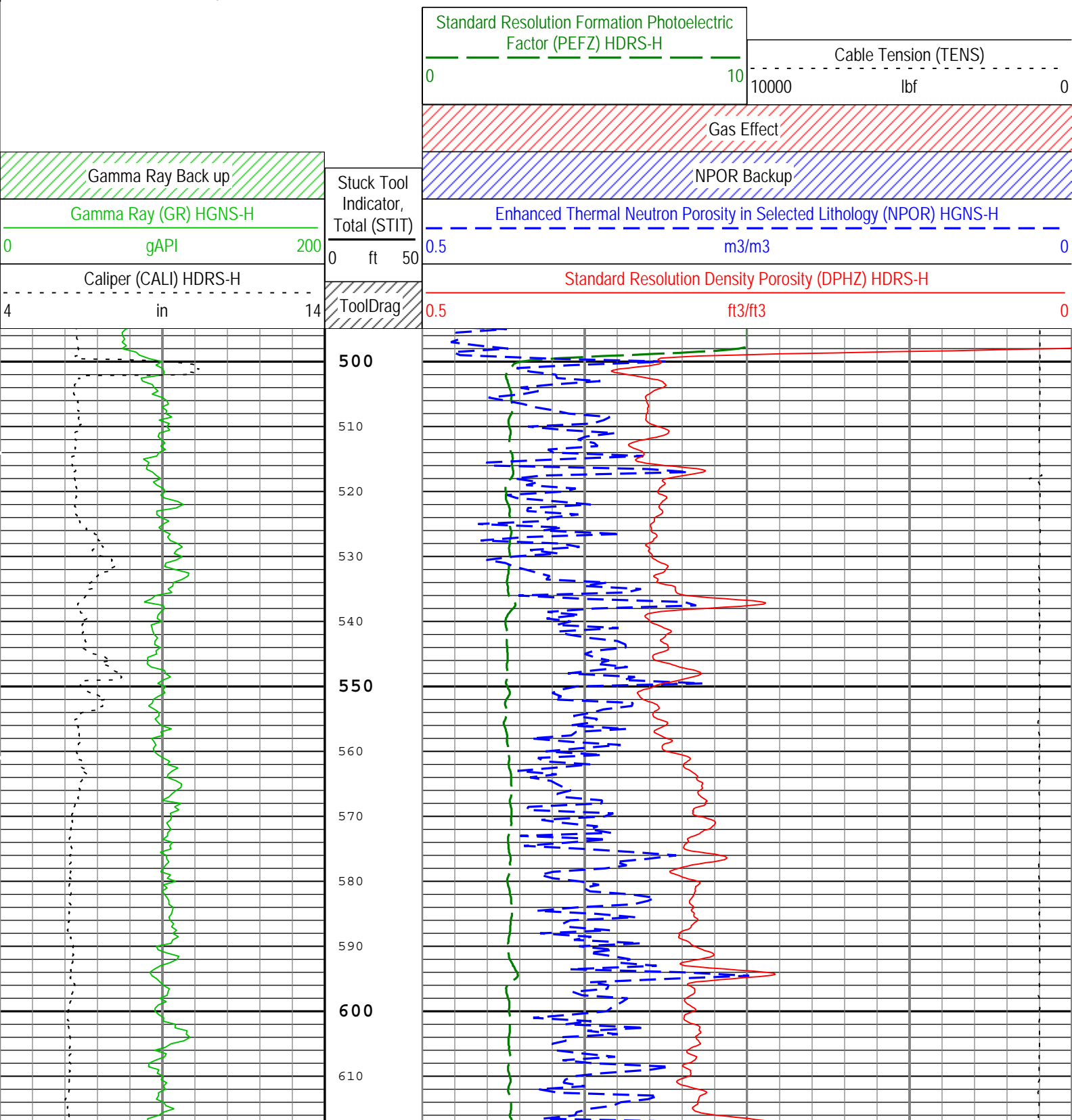
	9	236.00	0.82	214.96	30.00	235.99	-1.37	-1.37	-0.49	1.44	199.67	1.51	GPIT-F	9	0	0
10		266.00	0.80	224.23	30.00	265.99	-1.69	-1.69	-0.76	1.87	204.12	0.44	GPIT-F	9	0	0
11		296.00	0.84	211.12	30.00	295.99	-2.03	-2.03	-1.02	2.26	206.61	0.64	GPIT-F	9	0	0
12		326.00	0.81	184.15	30.00	325.98	-2.43	-2.43	-1.15	2.69	205.26	1.28	GPIT-F	9	0	0
13		356.00	0.89	211.24	30.00	355.98	-2.84	-2.84	-1.28	3.12	204.31	1.35	GPIT-F	9	0	0
14		386.00	0.91	240.47	30.00	385.98	-3.16	-3.16	-1.61	3.54	207.03	1.51	GPIT-F	9	0	0
15		416.00	0.90	267.57	30.00	415.97	-3.28	-3.28	-2.05	3.87	212.02	1.41	GPIT-F	9	0	0
16		446.00	1.03	234.99	30.00	445.97	-3.45	-3.45	-2.51	4.27	216.05	1.86	GPIT-F	9	0	0
17		476.00	1.01	259.18	30.00	475.96	-3.65	-3.65	-2.99	4.72	219.31	1.43	GPIT-F	9	0	0
18		506.00	1.08	117.73	30.00	505.96	-3.83	-3.83	-3.00	4.86	218.03	6.58	GPIT-F	9	0	0
19		536.00	1.08	121.37	30.00	535.96	-4.11	-4.11	-2.51	4.82	211.36	0.23	GPIT-F	9	0	0
20		566.00	0.98	118.75	30.00	565.95	-4.38	-4.38	-2.04	4.82	204.97	0.38	GPIT-F	9	0	0
21		596.00	0.87	119.71	30.00	595.95	-4.62	-4.62	-1.62	4.89	199.31	0.35	GPIT-F	9	0	0
22		626.00	0.81	118.24	30.00	625.94	-4.83	-4.83	-1.23	4.99	194.31	0.21	GPIT-F	9	0	0
23		656.00	0.73	122.68	30.00	655.94	-5.04	-5.04	-0.88	5.12	189.96	0.33	GPIT-F	9	0	0
24		686.00	0.67	123.81	30.00	685.94	-5.24	-5.24	-0.58	5.28	186.29	0.23	GPIT-F	9	0	0
25		716.00	0.69	108.80	30.00	715.94	-5.39	-5.39	-0.26	5.41	182.78	0.60	GPIT-F	9	0	0
26		746.00	0.69	111.17	30.00	745.94	-5.52	-5.52	0.08	5.51	179.20	0.10	GPIT-F	9	0	0
27		776.00	0.58	110.39	30.00	775.93	-5.63	-5.63	0.39	5.64	176.07	0.36	GPIT-F	9	0	0
28		806.00	0.70	112.53	30.00	805.93	-5.76	-5.76	0.70	5.81	173.08	0.41	GPIT-F	9	0	0
29		836.00	0.54	114.13	30.00	835.93	-5.88	-5.88	1.00	5.97	170.39	0.56	GPIT-F	9	0	0
30		866.00	0.67	112.68	30.00	865.93	-6.01	-6.01	1.29	6.14	167.91	0.47	GPIT-F	9	0	0
31		896.00	0.83	112.86	30.00	895.93	-6.16	-6.16	1.65	6.36	165.00	0.52	GPIT-F	9	0	0
32		926.00	0.80	113.70	30.00	925.92	-6.33	-6.33	2.04	6.66	162.12	0.11	GPIT-F	9	0	0
33		956.00	0.56	117.38	30.00	955.92	-6.48	-6.48	2.36	6.89	159.96	0.81	GPIT-F	9	0	0
34		986.00	0.71	120.24	30.00	985.92	-6.64	-6.64	2.66	7.15	158.22	0.50	GPIT-F	9	0	0
35		1016.00	0.70	117.36	30.00	1015.92	-6.82	-6.82	2.98	7.45	156.41	0.12	GPIT-F	9	0	0
36		1046.00	0.79	119.07	30.00	1045.91	-7.01	-7.01	3.32	7.74	154.63	0.28	GPIT-F	9	0	0
37		1076.00	0.73	113.41	30.00	1075.91	-7.18	-7.18	3.68	8.07	152.88	0.31	GPIT-F	9	0	0
38		1106.00	1.01	119.20	30.00	1105.91	-7.39	-7.39	4.09	8.43	151.06	0.98	GPIT-F	9	0	0
39		1136.00	0.78	116.49	30.00	1135.90	-7.61	-7.61	4.50	8.83	149.40	0.78	GPIT-F	9	0	0
40		1166.00	0.70	122.51	30.00	1165.90	-7.80	-7.80	4.84	9.19	148.19	0.36	GPIT-F	9	0	0
41		1196.00	0.60	127.92	30.00	1195.90	-7.99	-7.99	5.12	9.48	147.37	0.40	GPIT-F	9	0	0
42		1226.00	0.69	130.47	30.00	1225.90	-8.21	-8.21	5.38	9.81	146.76	0.30	GPIT-F	9	0	0
43		1256.00	0.79	131.13	30.00	1255.90	-8.46	-8.46	5.67	10.17	146.17	0.35	GPIT-F	9	0	0
44		1286.00	0.65	140.45	30.00	1285.89	-8.73	-8.73	5.93	10.56	145.78	0.61	GPIT-F	9	0	0
45		1316.00	0.77	143.67	30.00	1315.89	-9.02	-9.02	6.16	10.93	145.66	0.41	GPIT-F	9	0	0
46		1346.00	0.86	138.77	30.00	1345.89	-9.35	-9.35	6.43	11.35	145.49	0.40	GPIT-F	9	0	0
47		1376.00	0.91	139.96	30.00	1375.88	-9.70	-9.70	6.73	11.81	145.25	0.16	GPIT-F	9	0	0
48		1406.00	1.02	140.66	30.00	1405.88	-10.09	-10.09	7.05	12.30	145.05	0.38	GPIT-F	9	0	0
49		1436.00	1.10	151.48	30.00	1435.87	-10.55	-10.55	7.36	12.86	145.10	0.72	GPIT-F	9	0	0
50		1466.00	1.30	147.52	30.00	1465.87	-11.09	-11.09	7.68	13.48	145.30	0.71	GPIT-F	9	0	0
51		1496.00	1.56	147.52	30.00	1495.86	-11.72	-11.72	8.08	14.24	145.42	0.85	GPIT-F	9	0	0
52		1526.00	1.87	146.38	30.00	1525.85	-12.47	-12.47	8.57	15.12	145.50	1.05	GPIT-F	9	0	0
53		1556.00	2.20	144.33	30.00	1555.83	-13.35	-13.35	9.18	16.21	145.49	1.13	GPIT-F	9	0	0
54		1586.00	2.20	146.40	30.00	1585.80	-14.30	-14.30	9.83	17.36	145.48	0.26	GPIT-F	9	0	0
55		1616.00	2.41	145.32	30.00	1615.78	-15.29	-15.29	10.51	18.57	145.50	0.70	GPIT-F	9	0	0
56		1646.00	2.33	150.36	30.00	1645.75	-16.34	-16.34	11.17	19.78	145.65	0.73	GPIT-F	9	0	0
57		1676.00	2.37	151.95	30.00	1675.73	-17.42	-17.42	11.76	21.03	145.97	0.25	GPIT-F	9	0	0
58		1706.00	2.38	153.39	30.00	1705.70	-18.53	-18.53	12.34	22.24	146.34	0.20	GPIT-F	9	0	0
59		1736.00	2.47	151.35	30.00	1735.68	-19.65	-19.65	12.93	23.52	146.67	0.42	GPIT-F	9	0	0
60		1766.00	2.54	151.39	30.00	1765.65	-20.80	-20.80	13.55	24.84	146.92	0.22	GPIT-F	9	0	0
61		1796.00	2.60	149.18	30.00	1795.62	-21.97	-21.97	14.22	26.18	147.09	0.39	GPIT-F	9	0	0
62		1826.00	2.58	147.75	30.00	1825.59	-23.13	-23.13	14.93	27.53	147.16	0.23	GPIT-F	9	0	0

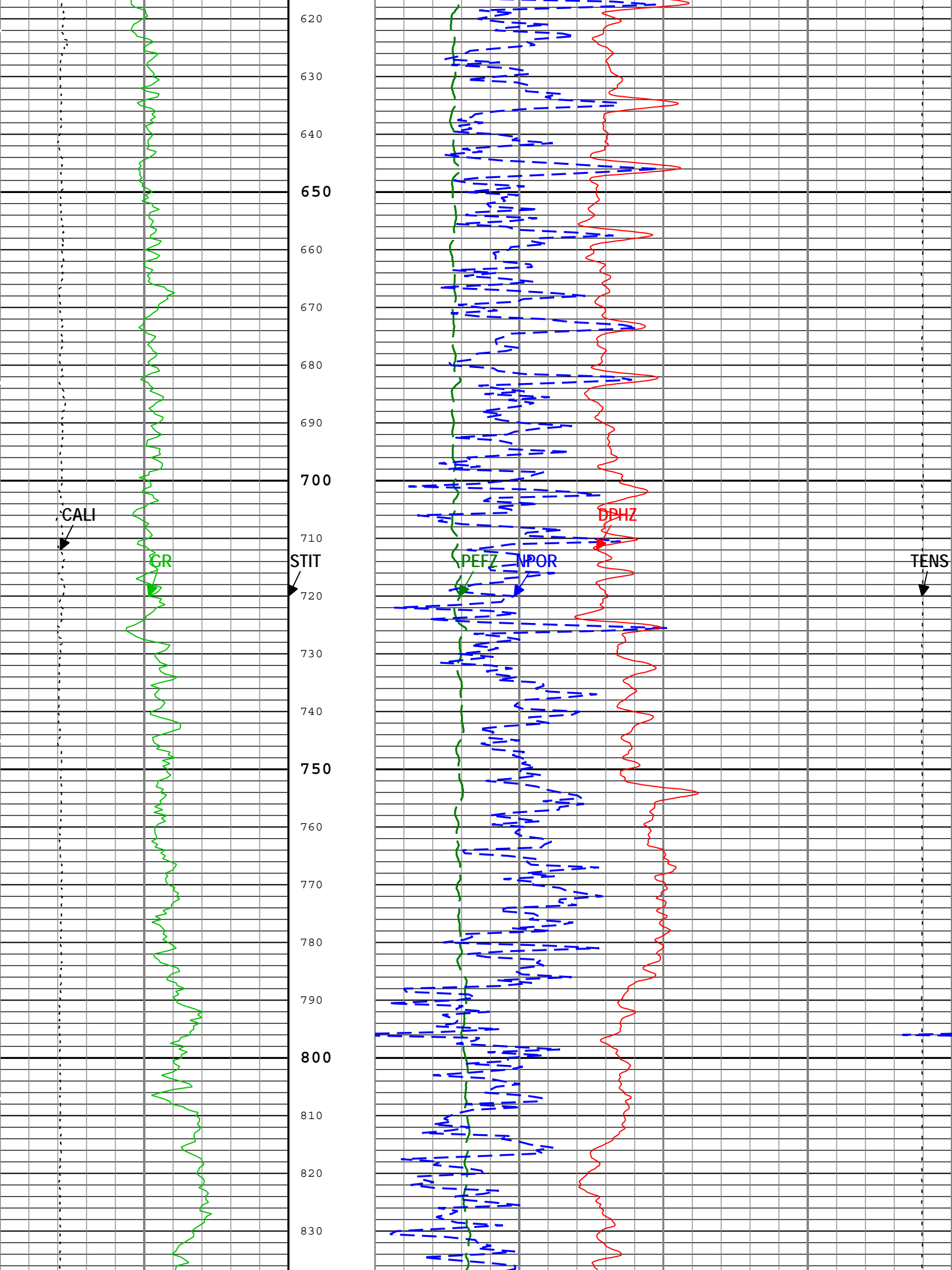
Description: HGNS standard resolution porosities for Platform Express    Format: Log ( EMD 5in Porosity )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index

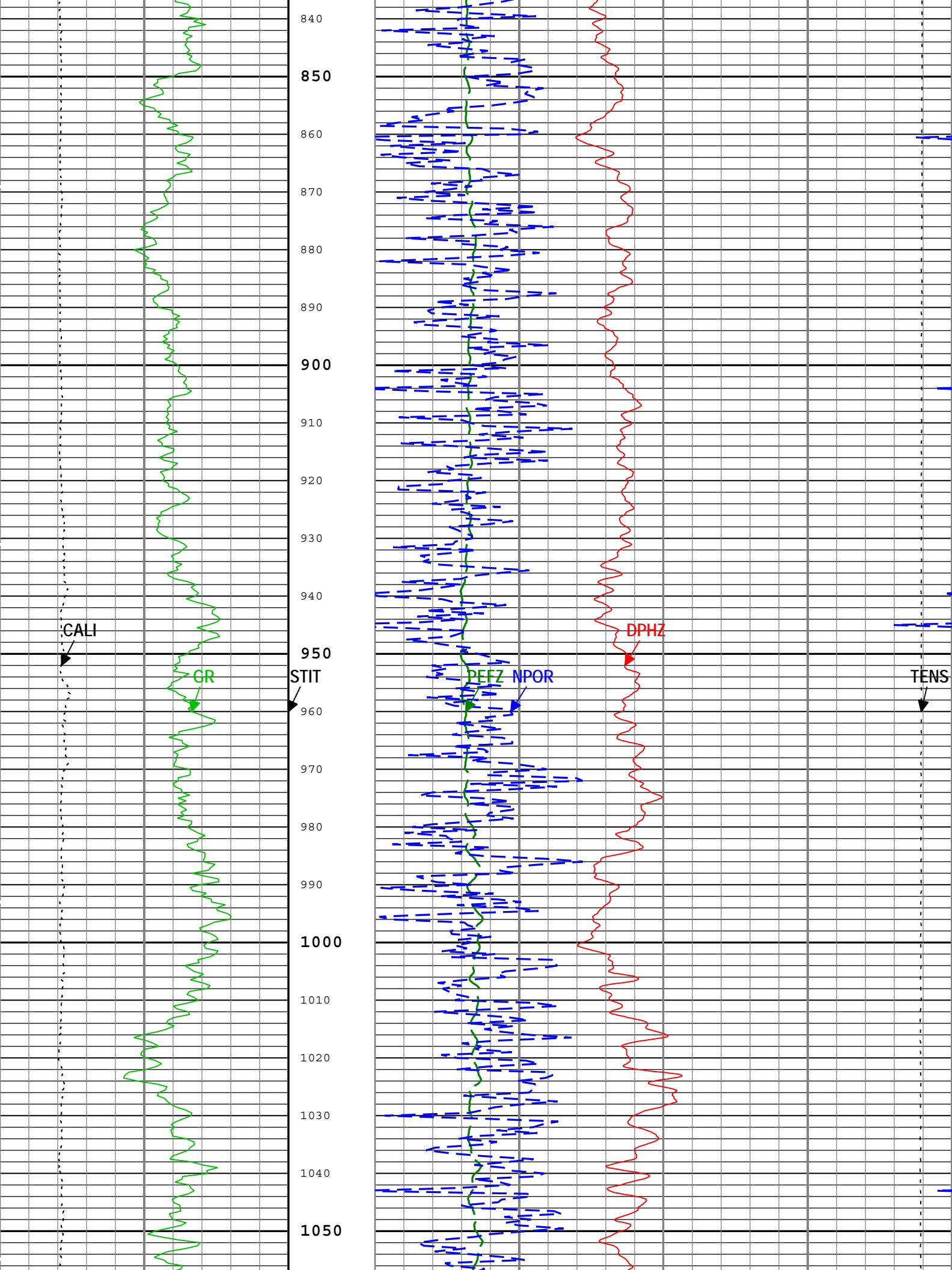


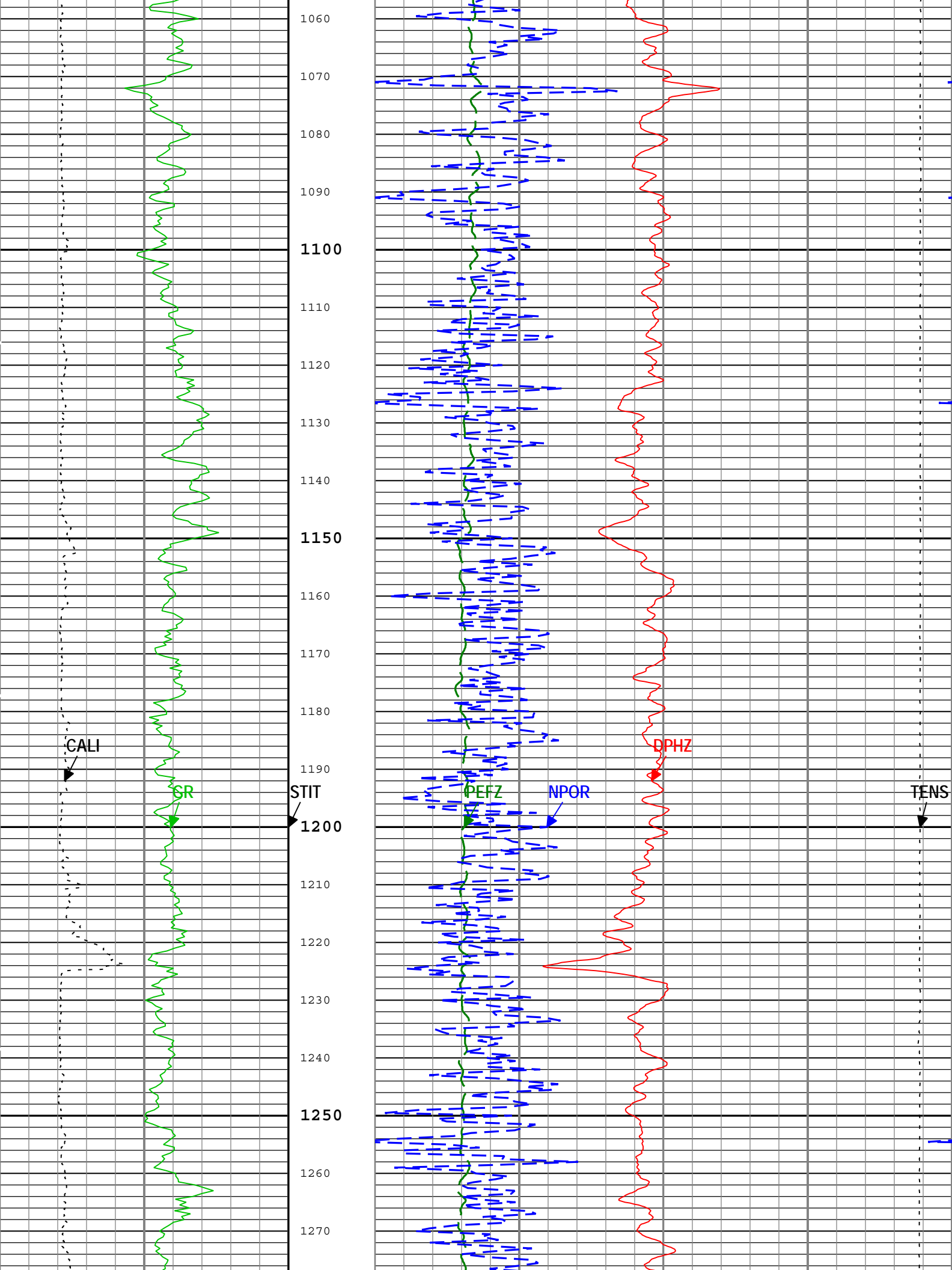
Channel	Source	Sampling
CALI	HDRS-H:HRCC-H:HRCC-H	1in
DPHZ	HDRS-H:HRMS-H:HRGD-H	2in
GR	HGNS-H:HGNS-H:HGNS-H	6in
NPOR	HGNS-H:HGNS-H:HGNS-H	6in
PEFZ	HDRS-H:HRMS-H:HRGD-H	2in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

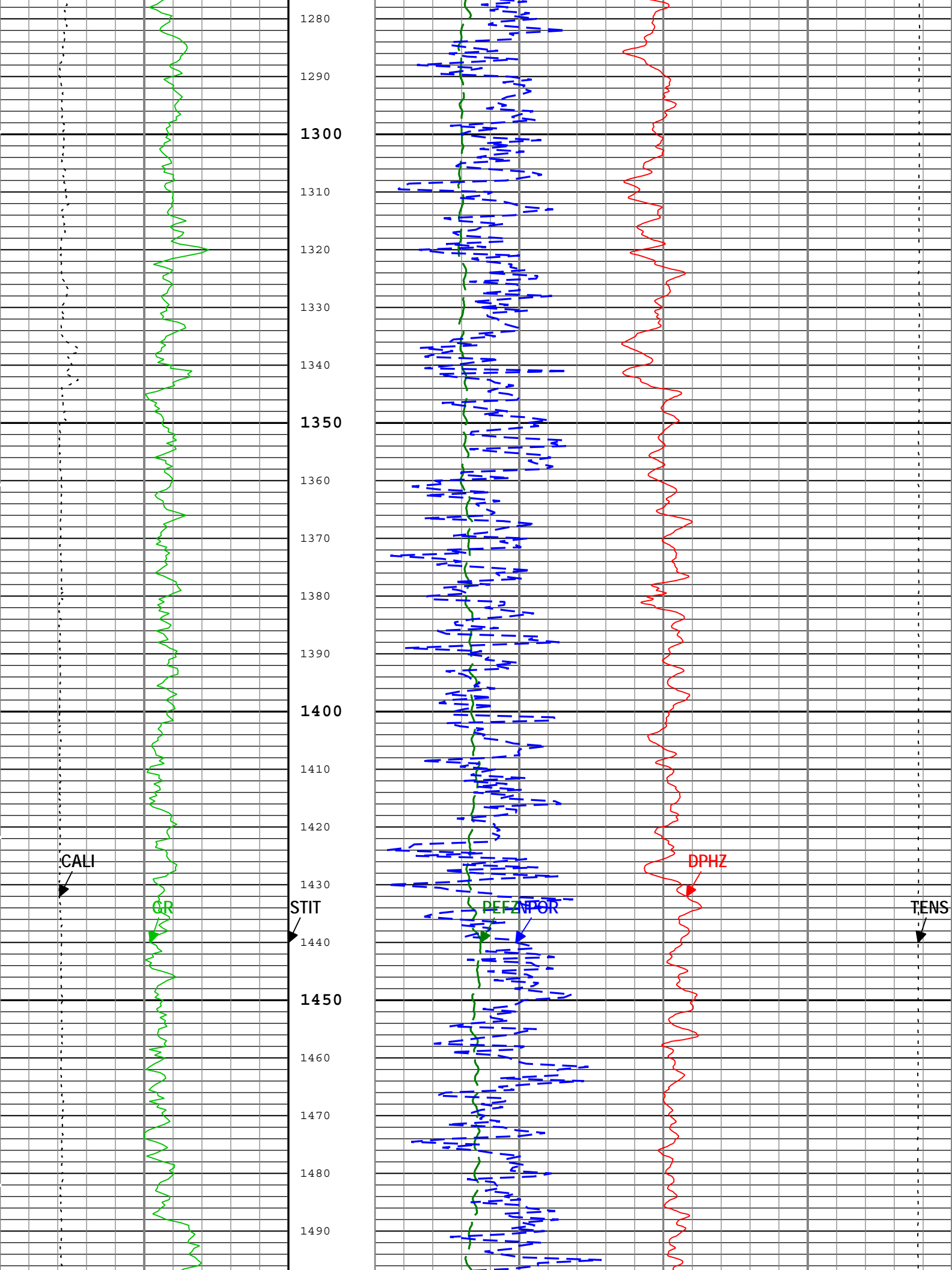
TIME\_1900 - Time Marked every 60.00 (s)

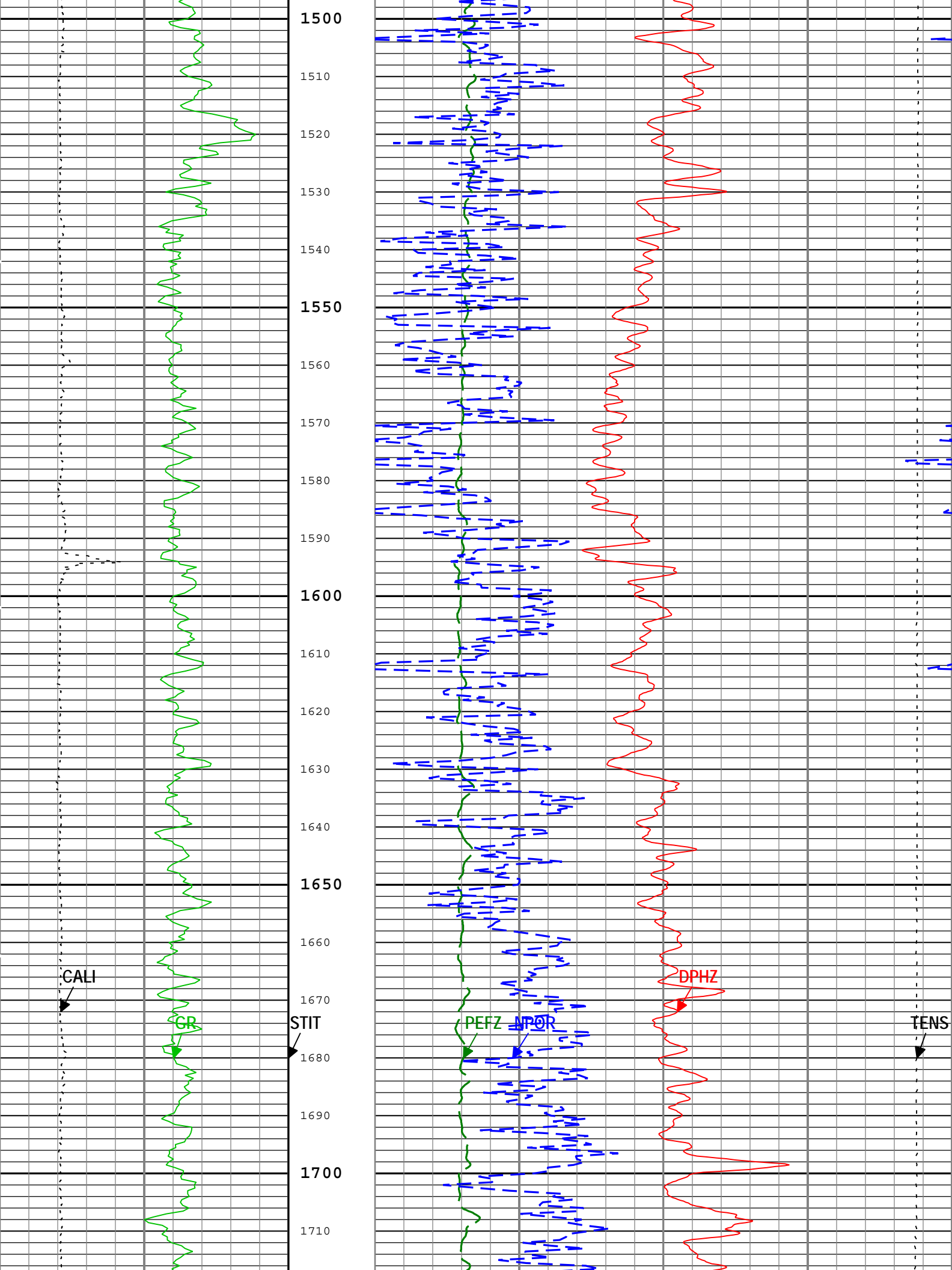


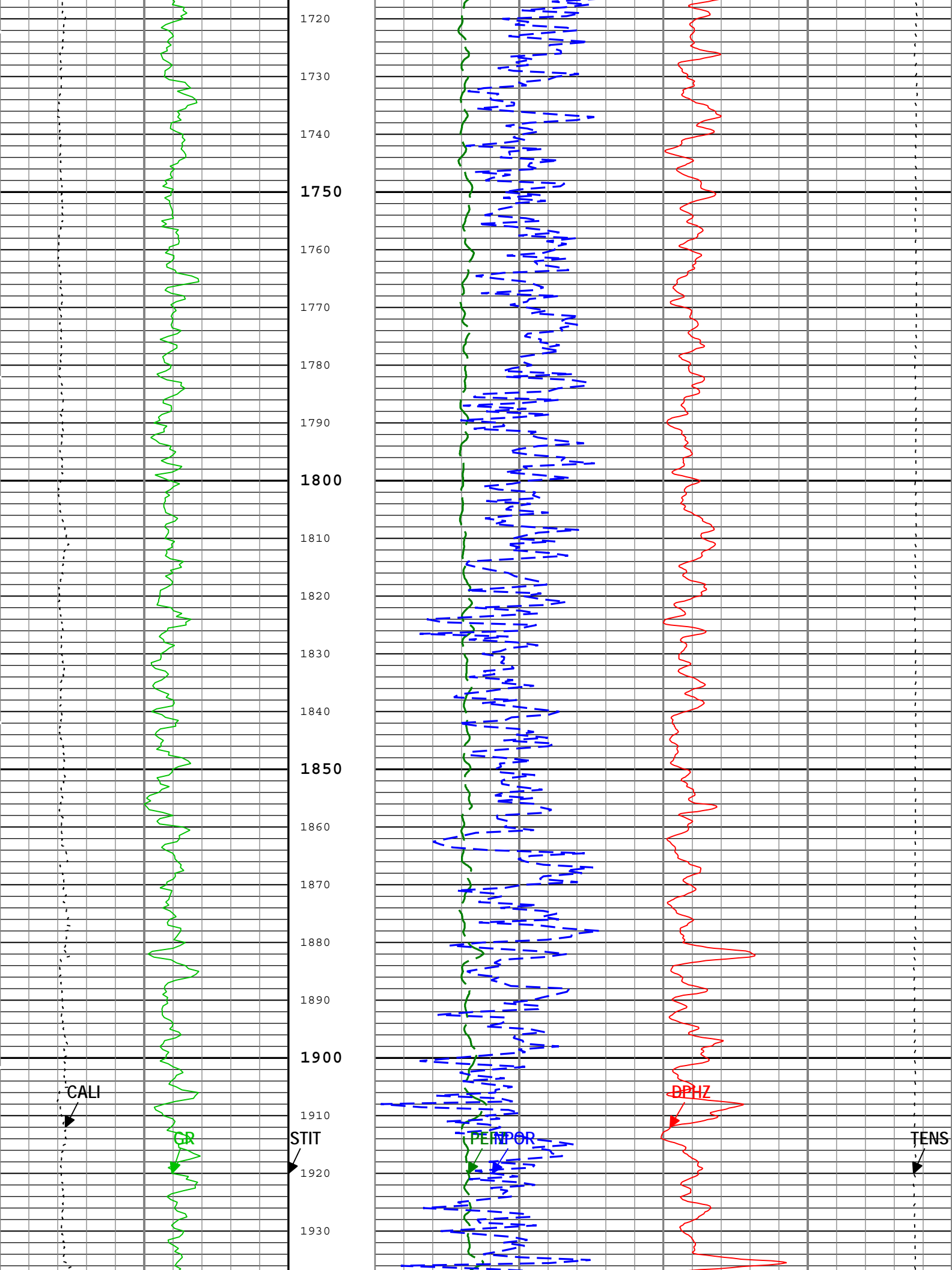


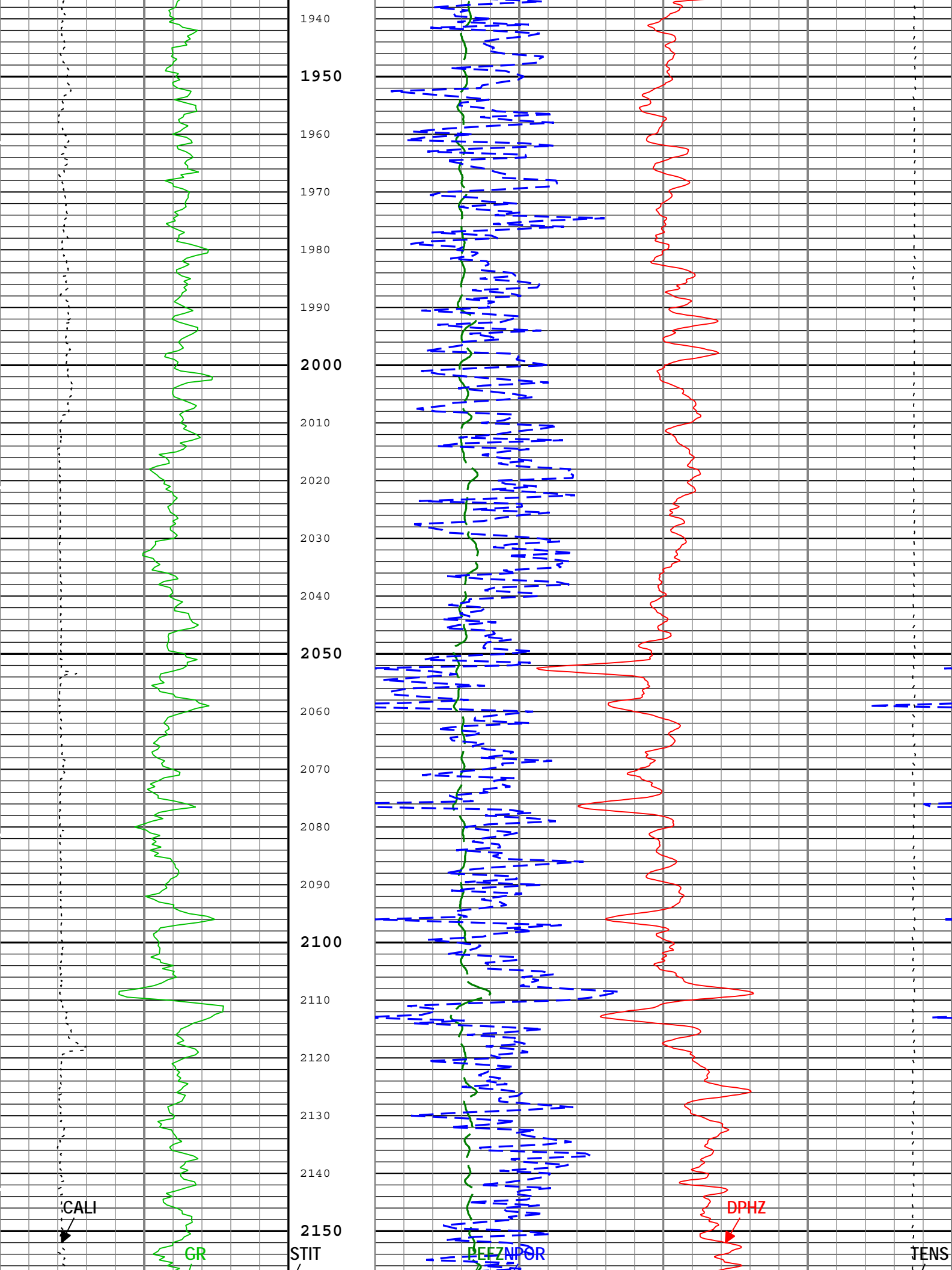




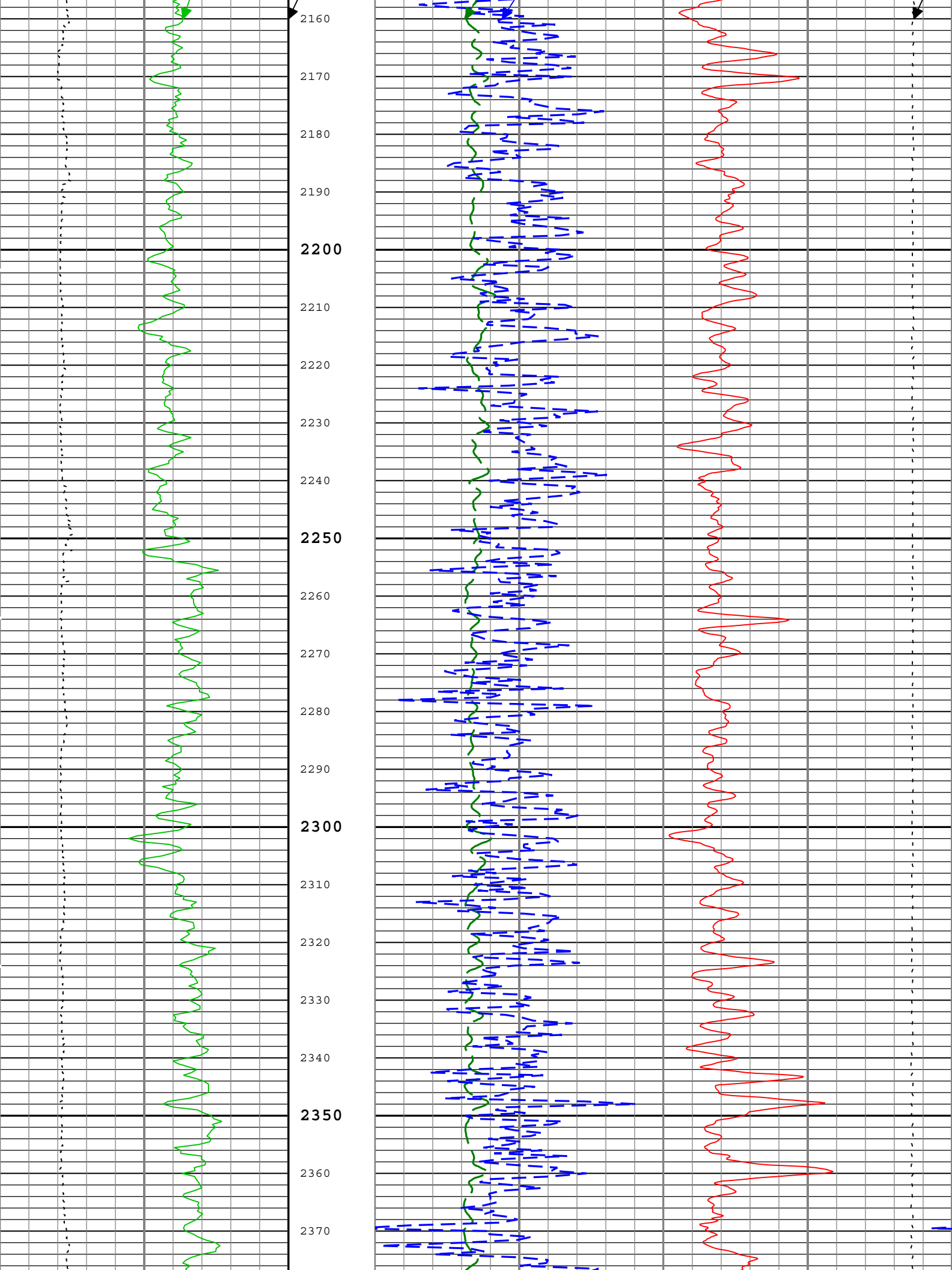


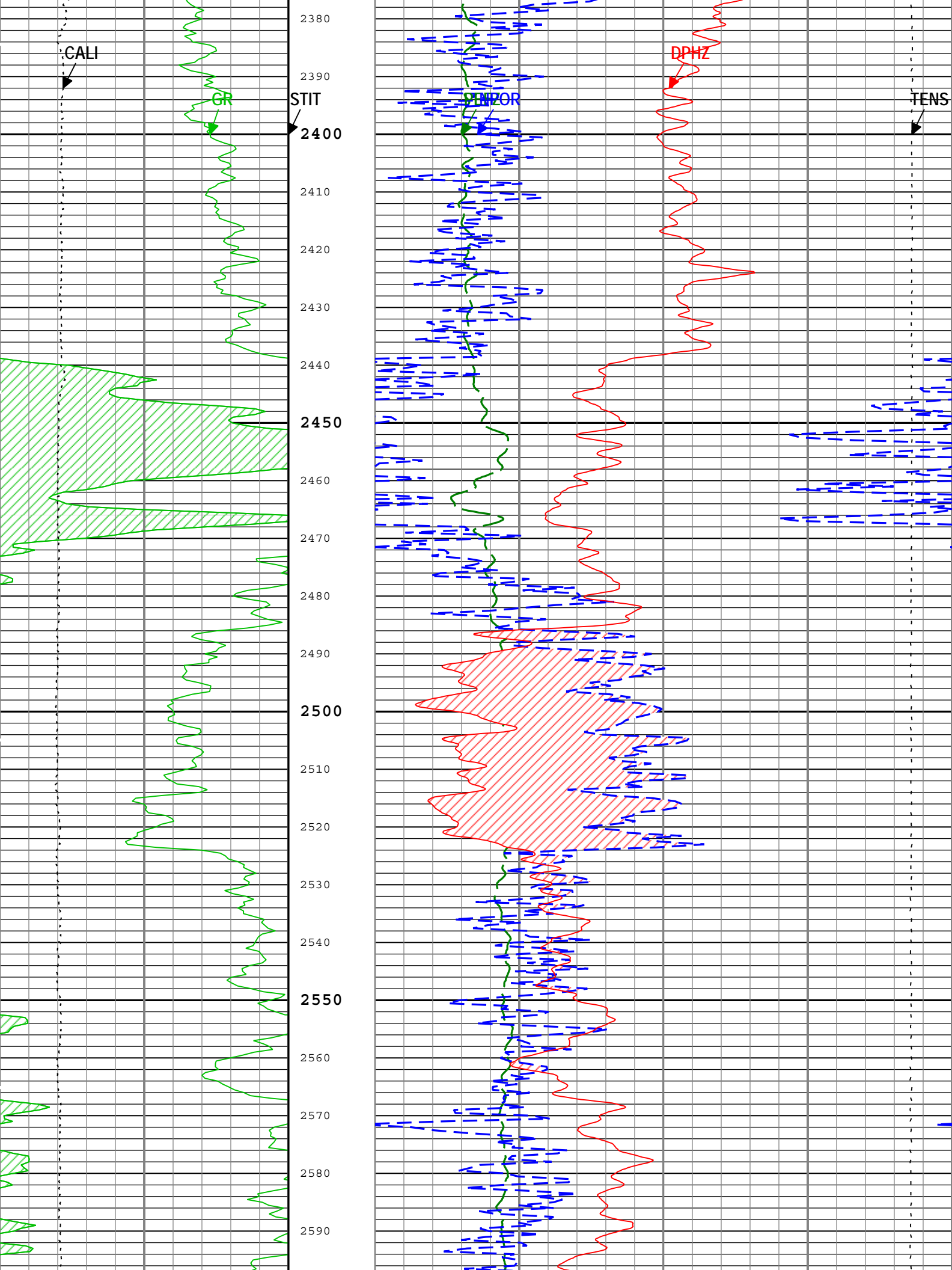


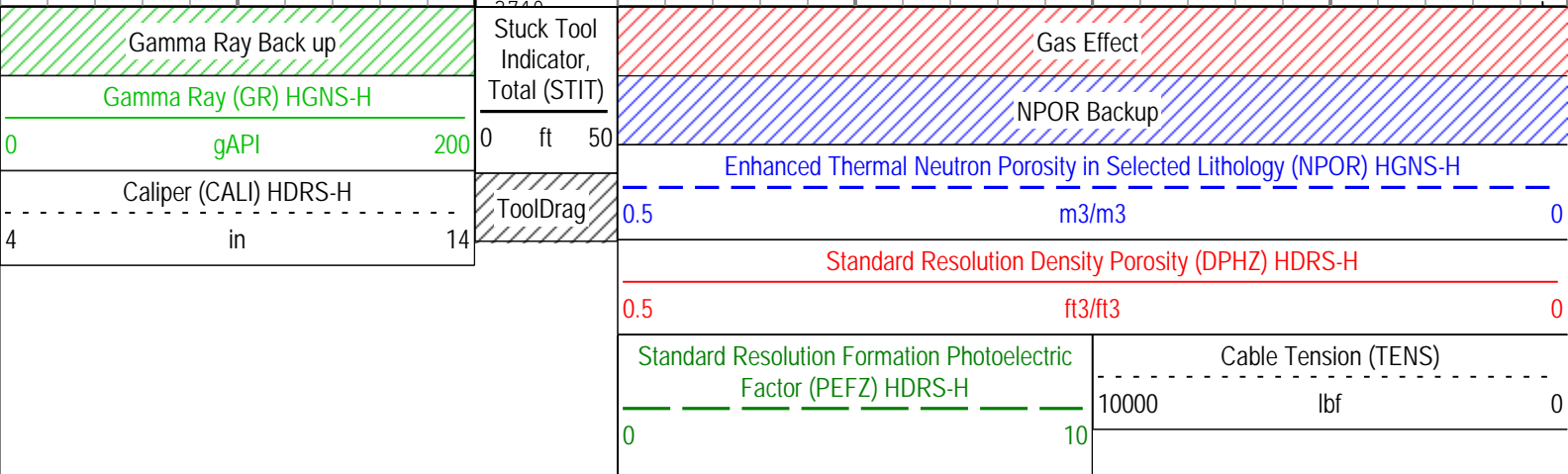
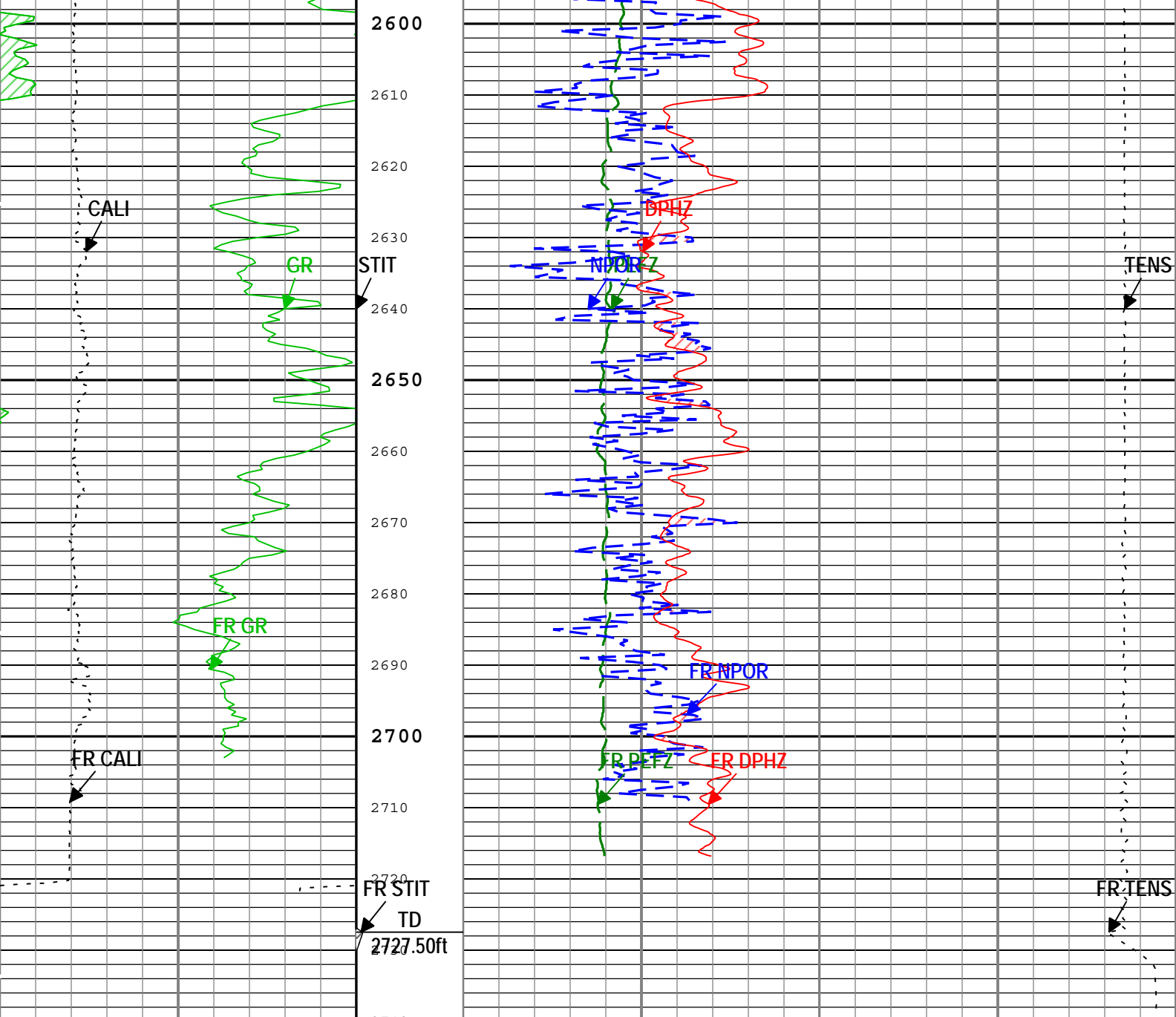












TIME\_1900 - Time Marked every 60.00 (s)

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: 24-Nov-2014 20:38:36

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
BARI	Barite Mud Presence Flag	Borehole	No	

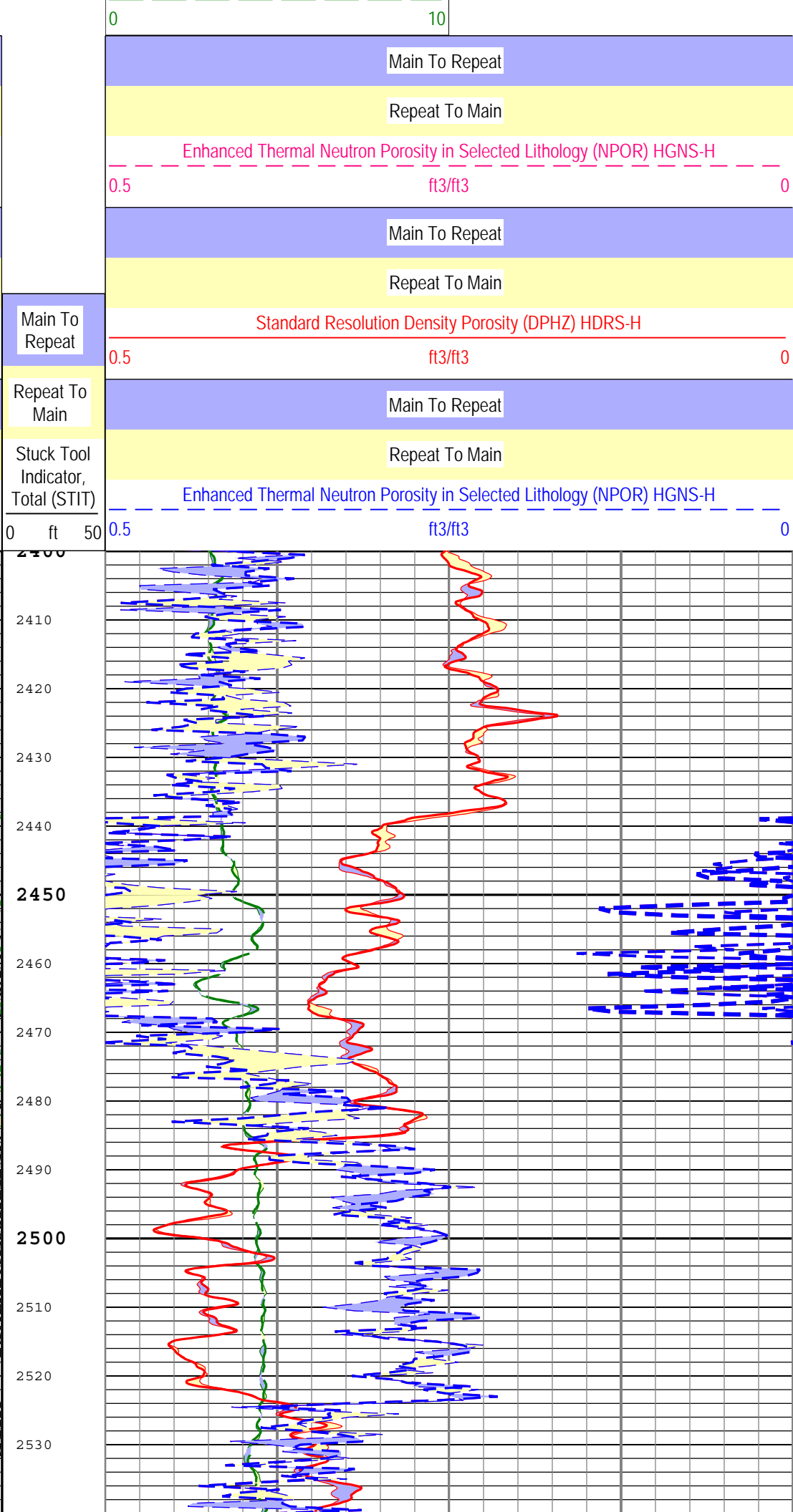
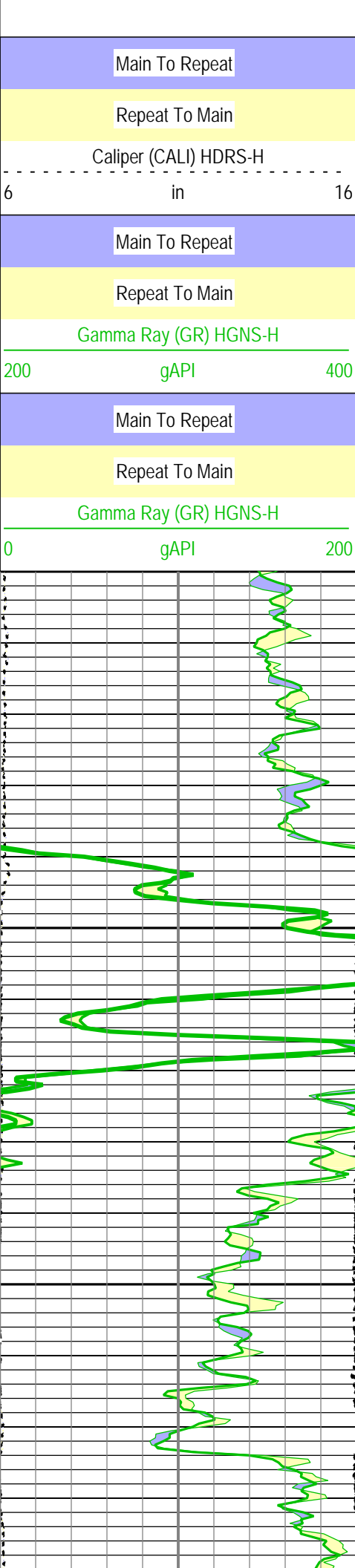
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	98.75	degF
BS	Bit Size	WLSESSION	6.25	in
BSAL	Borehole Salinity	Borehole	13300	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	498	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.8	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	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
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.16	ohm.m
TD	Total Measured Depth	Borehole	2727.5	ft

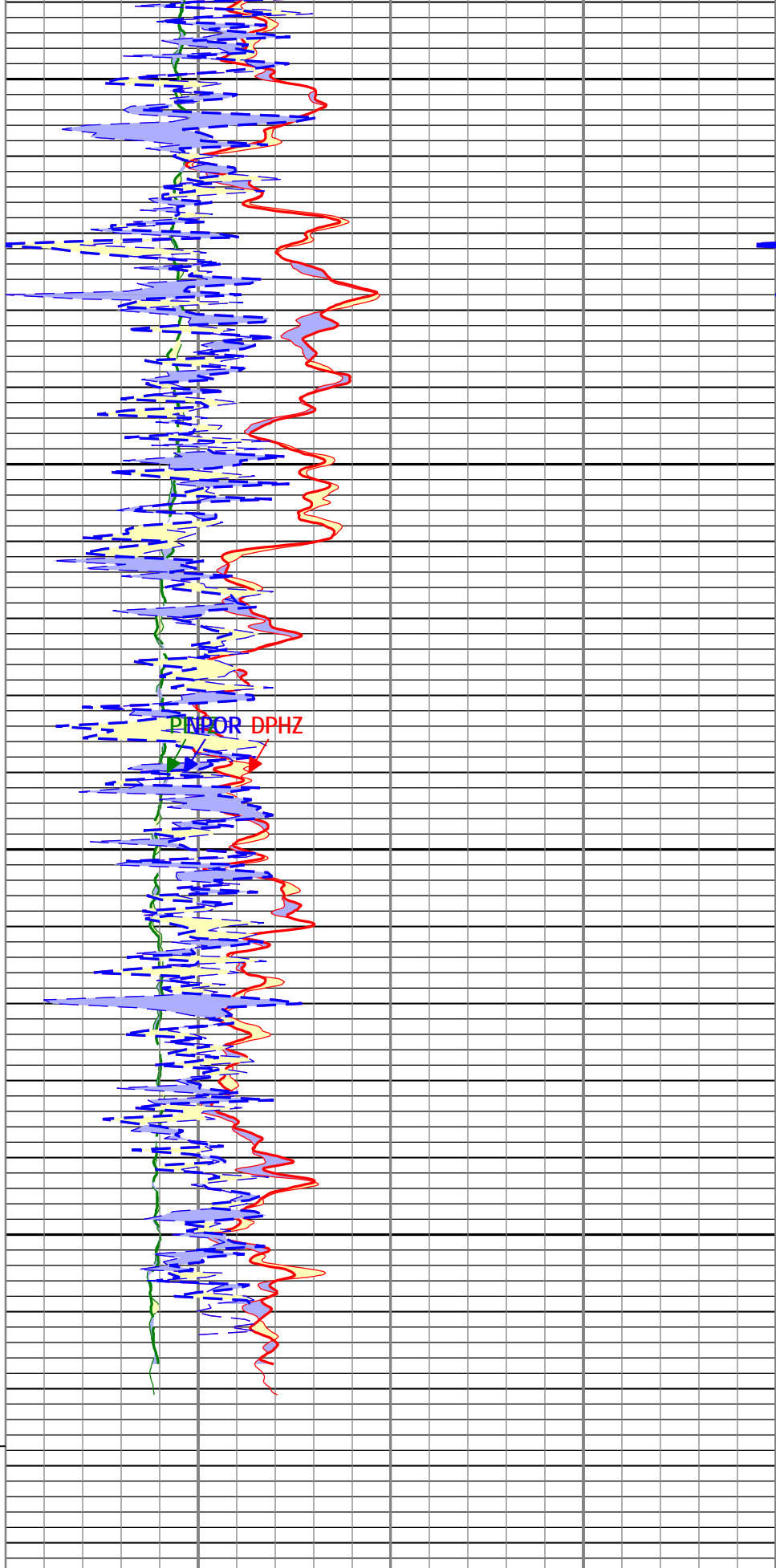
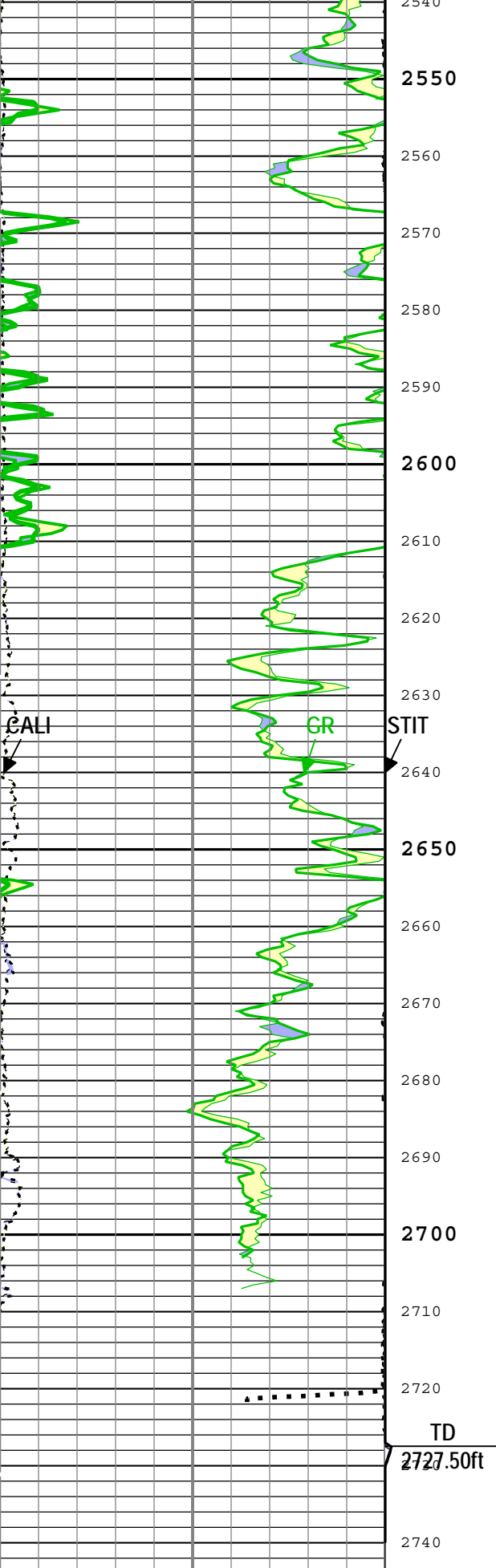
Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BRD_TYPE	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h
ONE				
Porosity Repeat Analysis				

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Repeat[3]:Up	Up	2367.79 ft	2743.97 ft	24-Nov-2014 2:07:38 PM	24-Nov-2014 2:14:20 PM	ON	0.00 ft	Yes
ONE	Main[4]:Up	Up	49.99 ft	2740.13 ft	24-Nov-2014 2:18:51 PM	24-Nov-2014 3:07:02 PM	ON	0.00 ft	Yes
All depths are referenced to toolstring zero									
Log	<div>Company:Omimex Petroleum Inc.      Well:Gueck 10-19-7-44</div> <div>ONE: Repeat[3]:Up:S010</div>								

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: 24-Nov-2014 20:38:37

TIME_1900 - Time Marked every 60.00 (s)									
					<div> <div>Main To Repeat</div> <div>Repeat To Main</div> <div>Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H</div> </div>				





Main To Repeat
Repeat To Main

Main To Repeat
Repeat To Main

Caliper (CALI) HDRS-H			Main	Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H			
6	in		16	Stuck Tool Indicator, Total (STIT)	0.5	ft3/ft3	0
Main To Repeat			0 ft 50	Main To Repeat			
Repeat To Main				Repeat To Main			
Gamma Ray (GR) HGNS-H				Standard Resolution Density Porosity (DPHZ) HDRS-H			
200	gAPI			400	0.5	ft3/ft3	0
Main To Repeat				Main To Repeat			
Repeat To Main				Repeat To Main			
Gamma Ray (GR) HGNS-H				Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H			
0	gAPI			200	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)

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: 24-Nov-2014 20:38:37

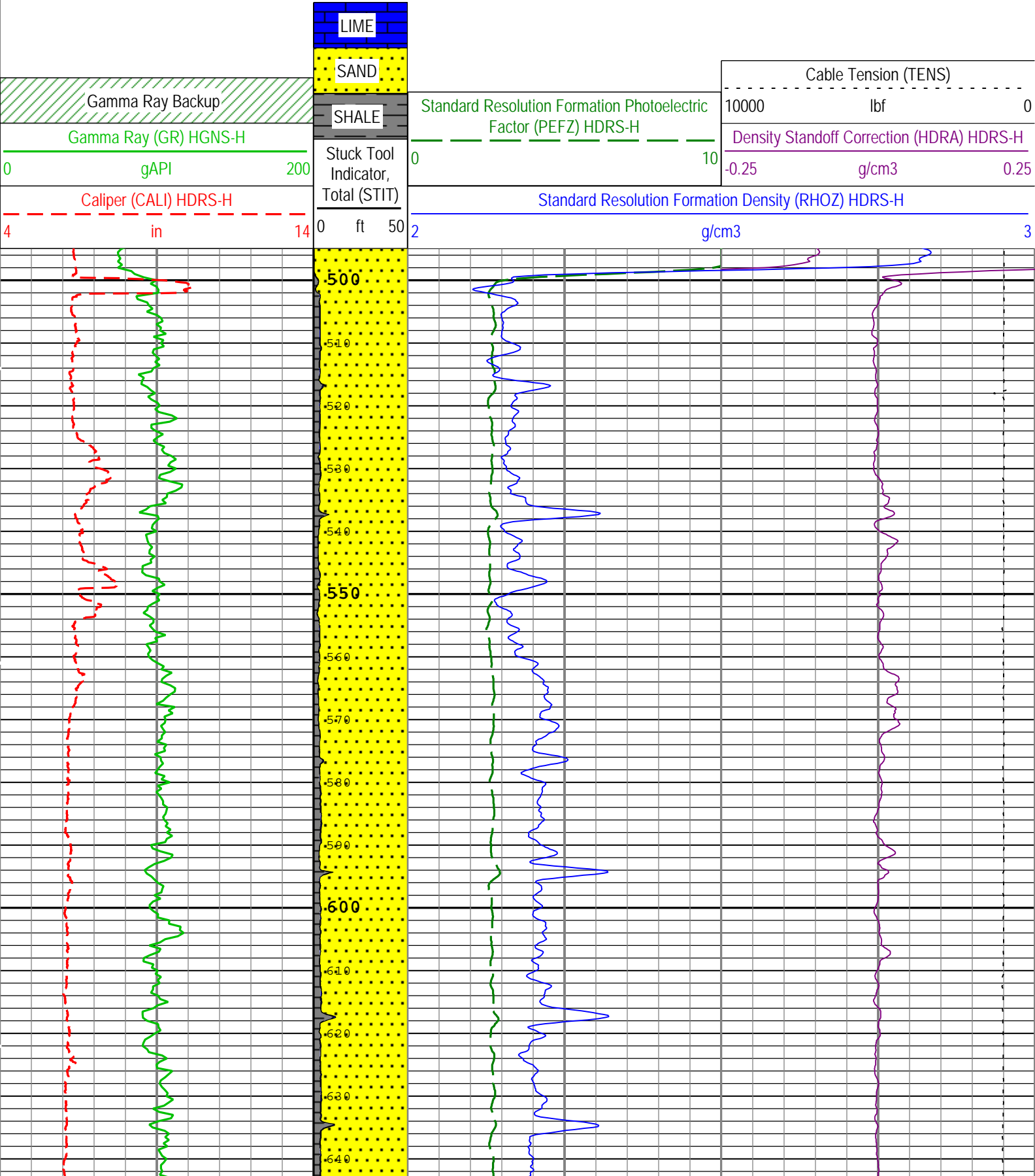
ONE									
5" Density									
Software Version									
Acquisition System						Version			
MaxWell						4.0.9163.3000			
Application Patch						Patch-SP-10767_26570-4.0.9163.3001			
Computation		Description					Version		
DepthCorrection		DepthCorrection					4.0.9469.3000		
Tool Elements		Description				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									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Main[4]:Up	Up	49.99 ft	2740.13 ft	24-Nov-2014 2:18:51 PM	24-Nov-2014 3:07:02 PM	ON	0.00 ft	Yes
All depths are referenced to toolstring zero									
Log	Company:Omimex Petroleum Inc.						Well:Gueck 10-19-7-44		
ONE: Main[4]:Up:S010									

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: 24-Nov-2014 20:38:38

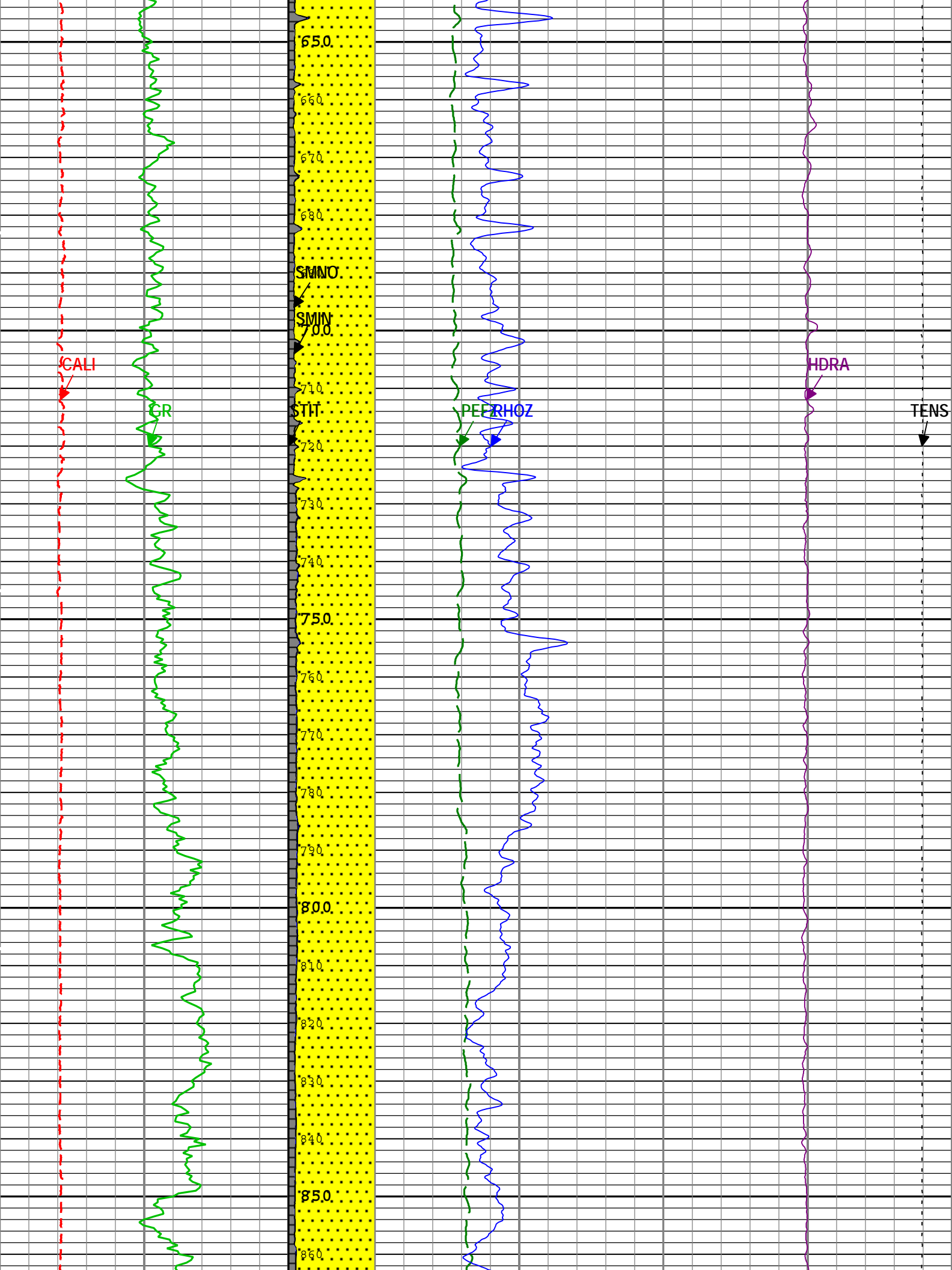
Channel	Source	Sampling
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR	HGNS-H:HGNS-H:HGNS-H	6in
HDRA	HDRS-H:HRMS-H:HRGD-H	2in
PEFZ	HDRS-H:HRMS-H:HRGD-H	2in

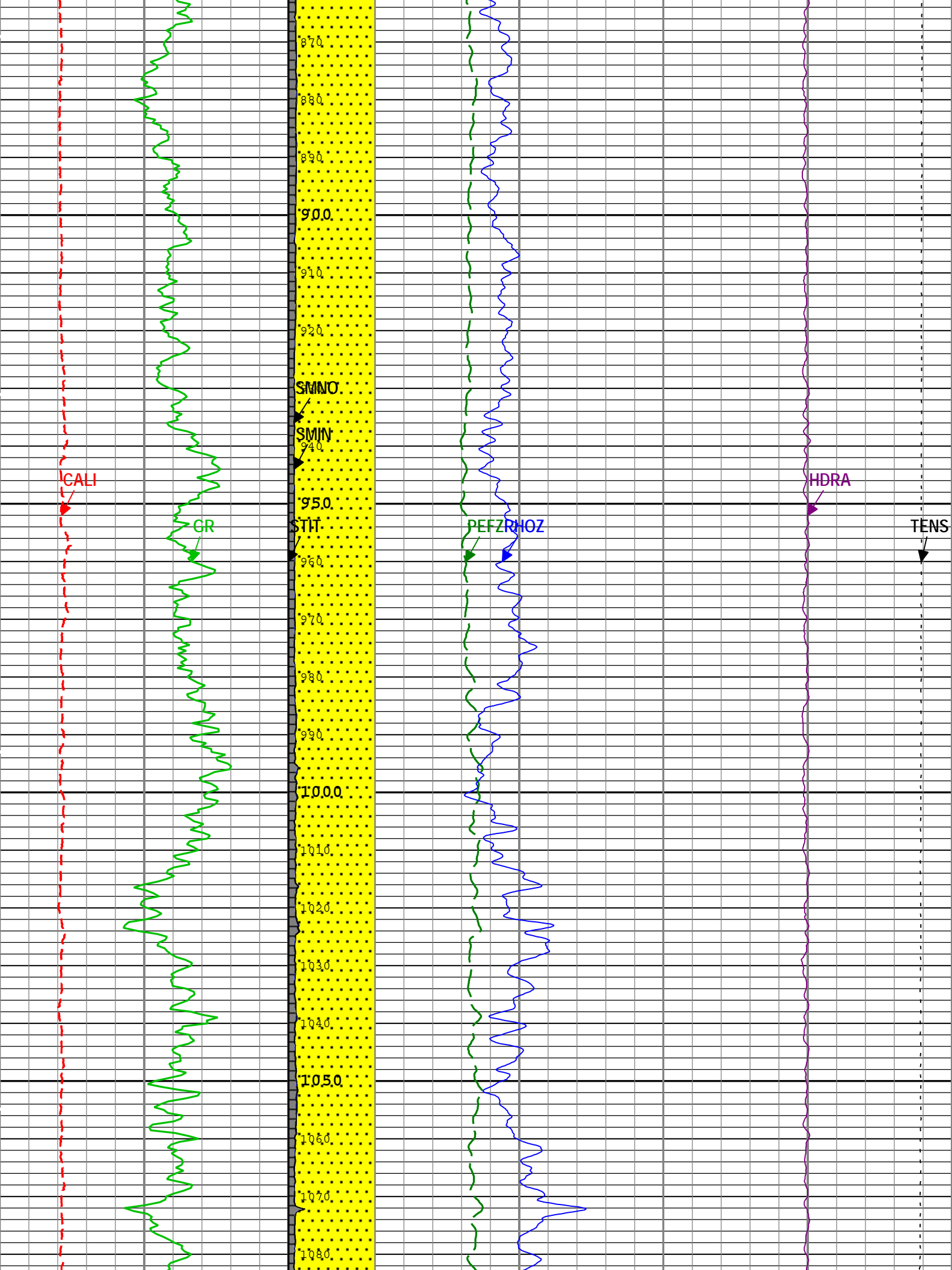
RHOZ HDRS-H:HRMS-H:HRGD-H 2in  
SMIN HDRS-H:HRMS-H:HRGD-H 2in  
SMNO HDRS-H:HRMS-H:HRGD-H 2in  
STIT DepthCorrection 6in  
TENS WLWorkflow 6in  
TIME\_1900 WLWorkflow 0.1in

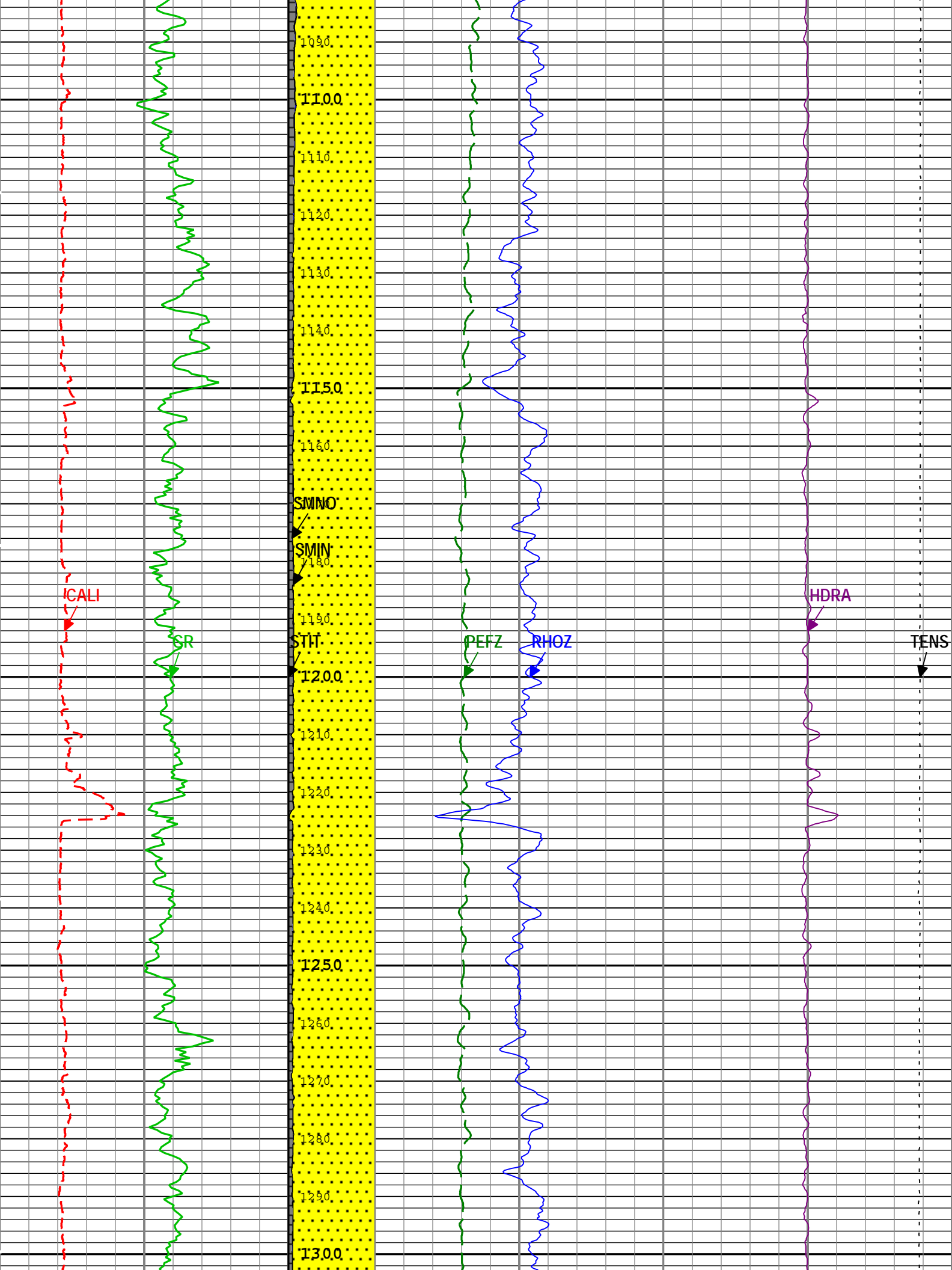
TIME\_1900 - Time Marked every 60.00 (s)

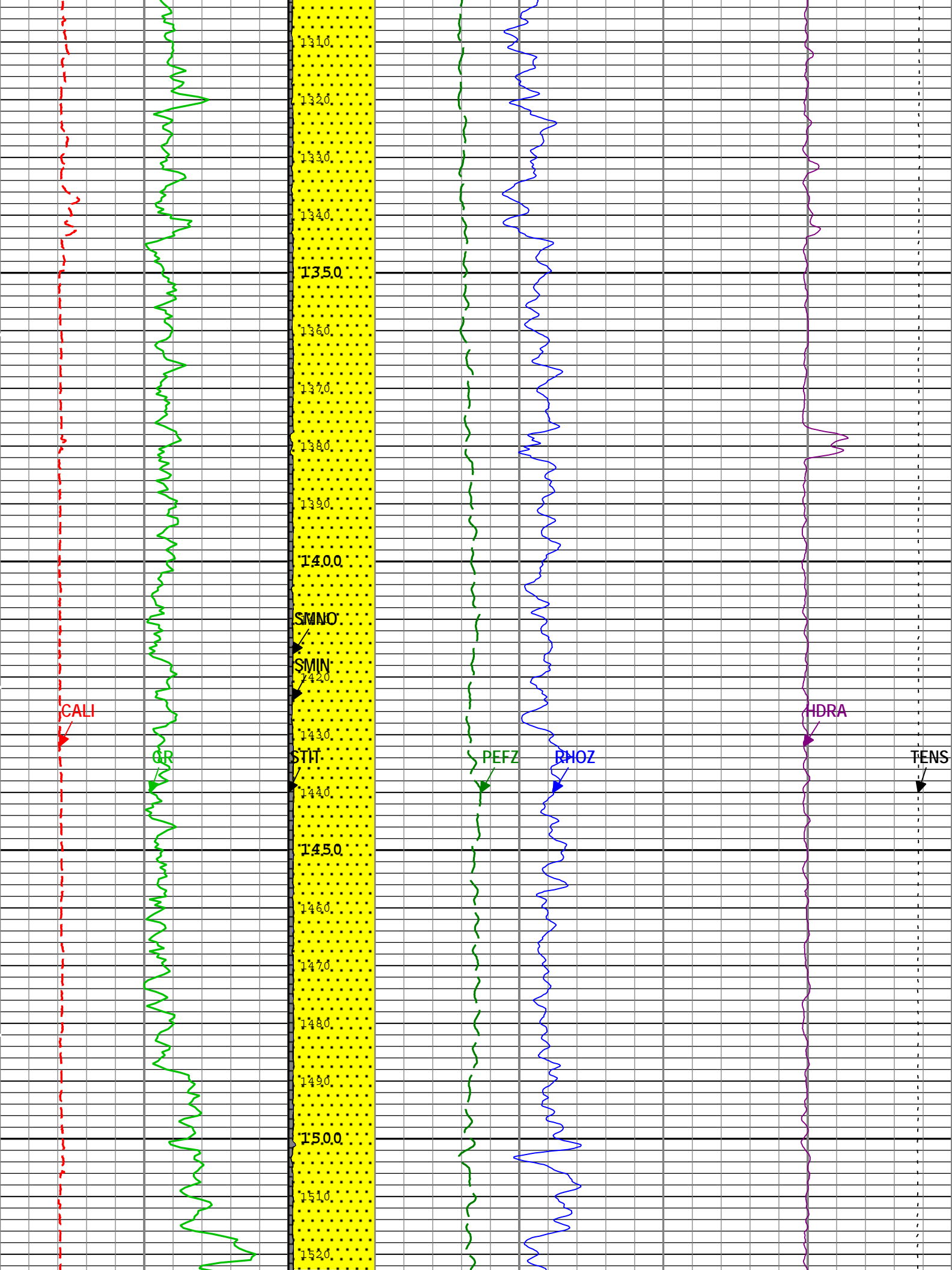


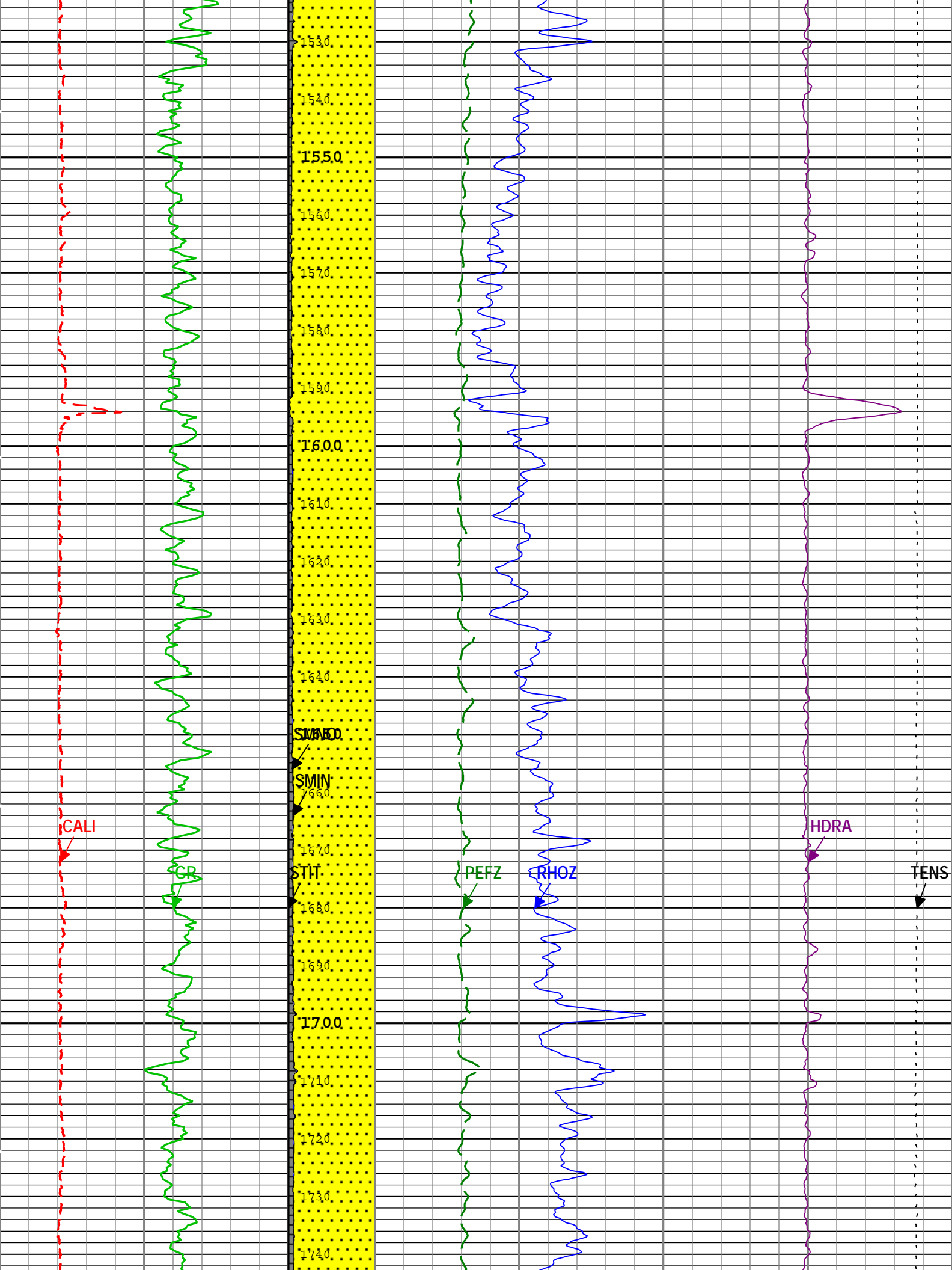


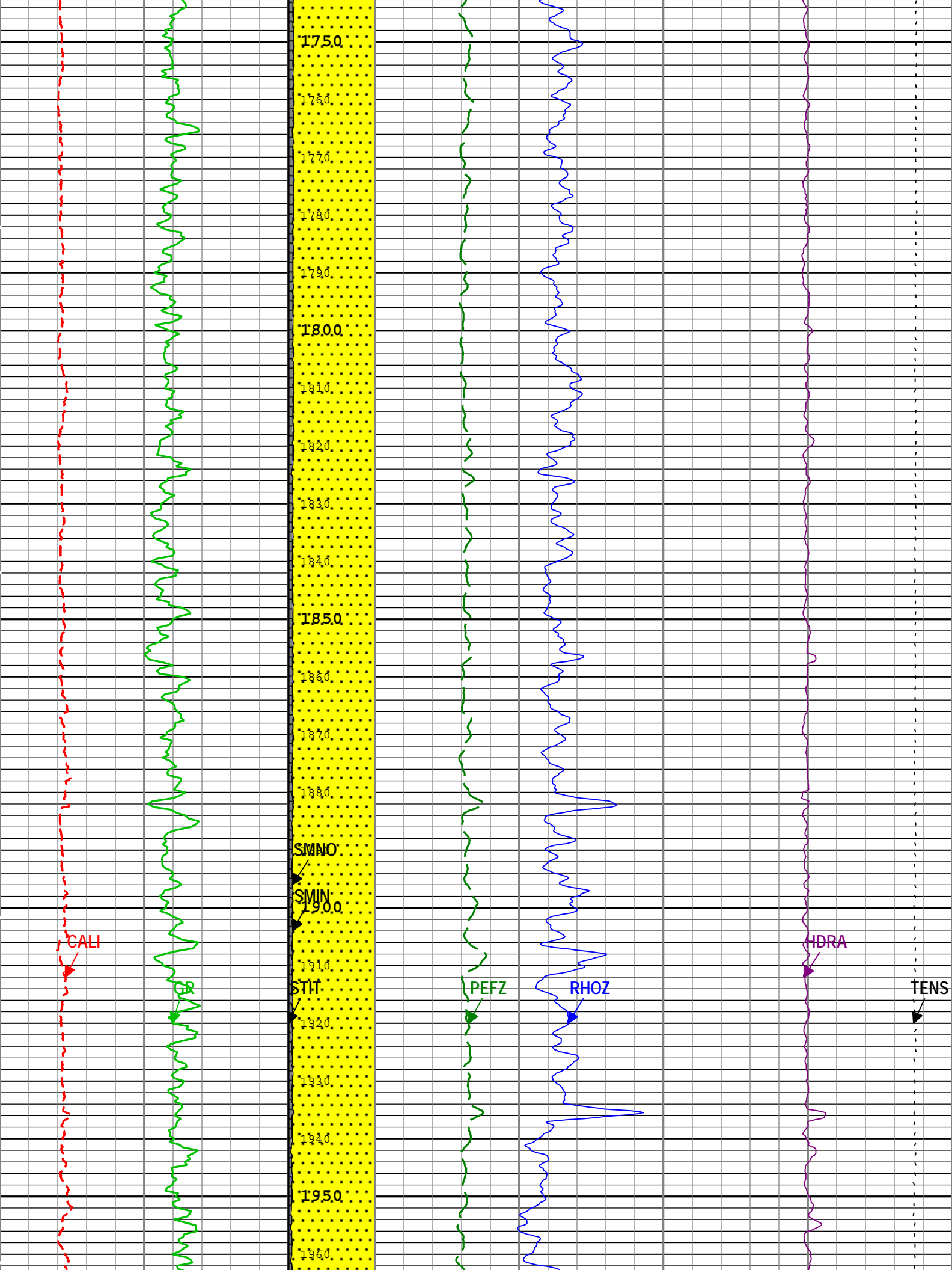


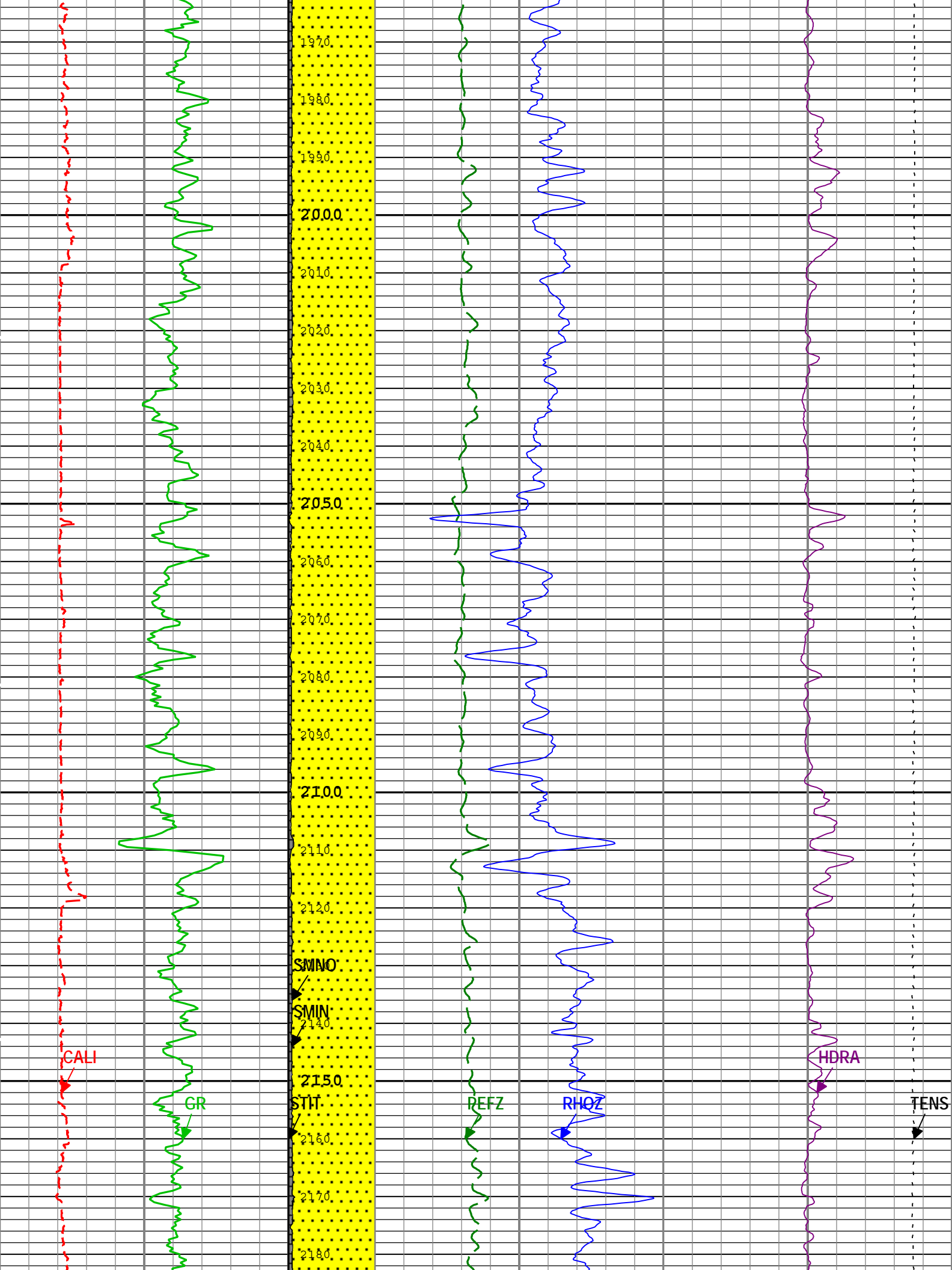


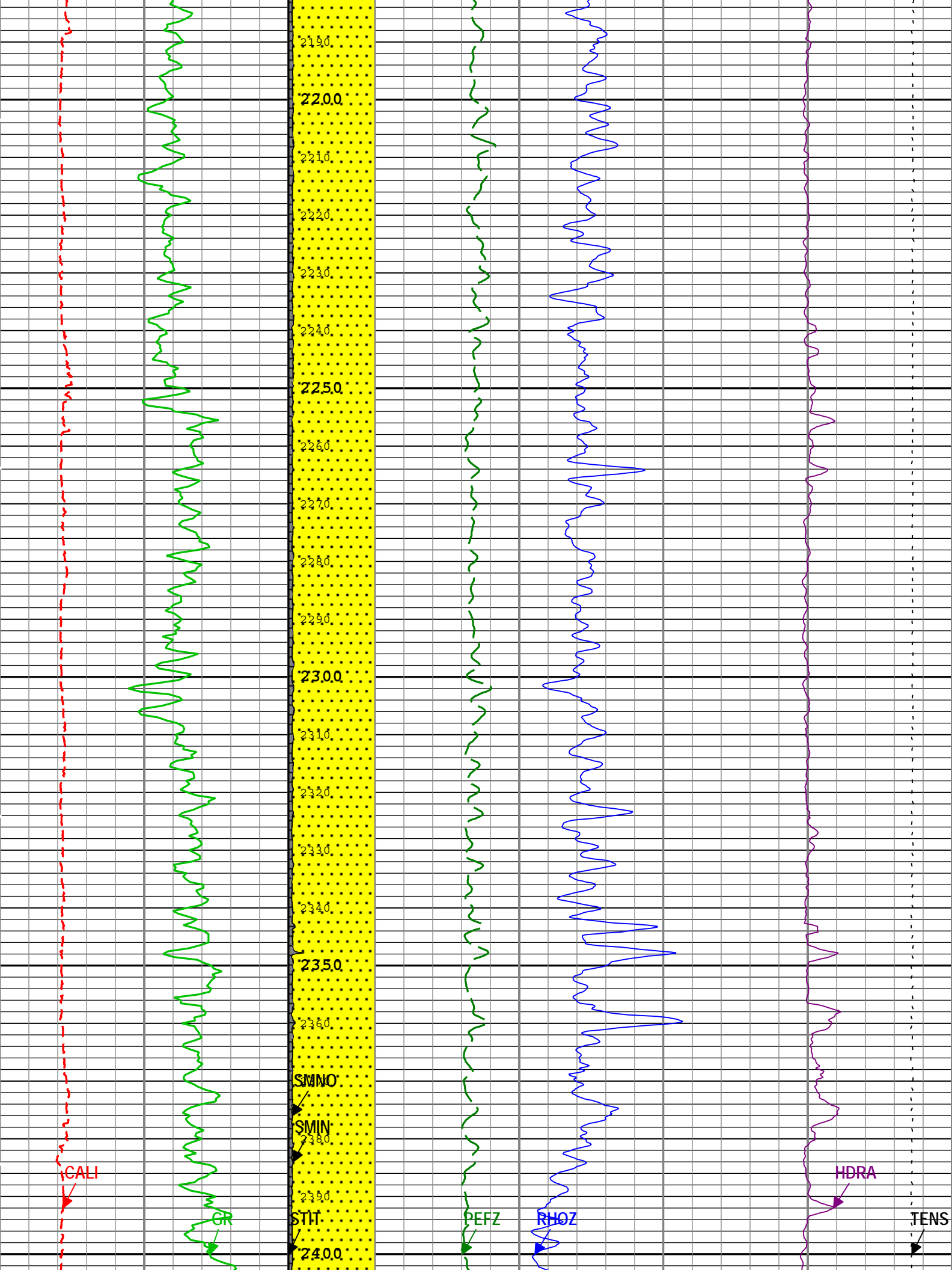




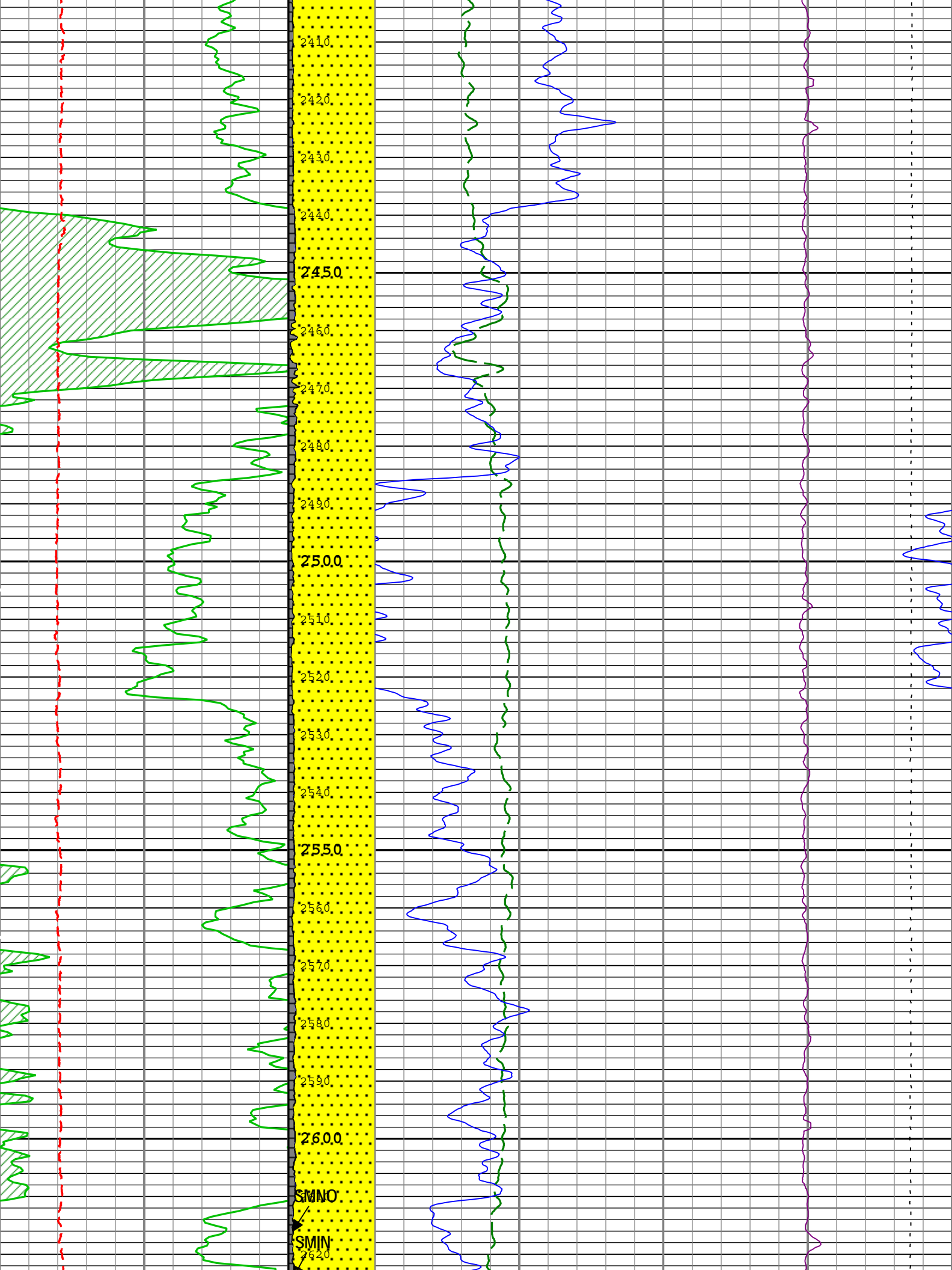


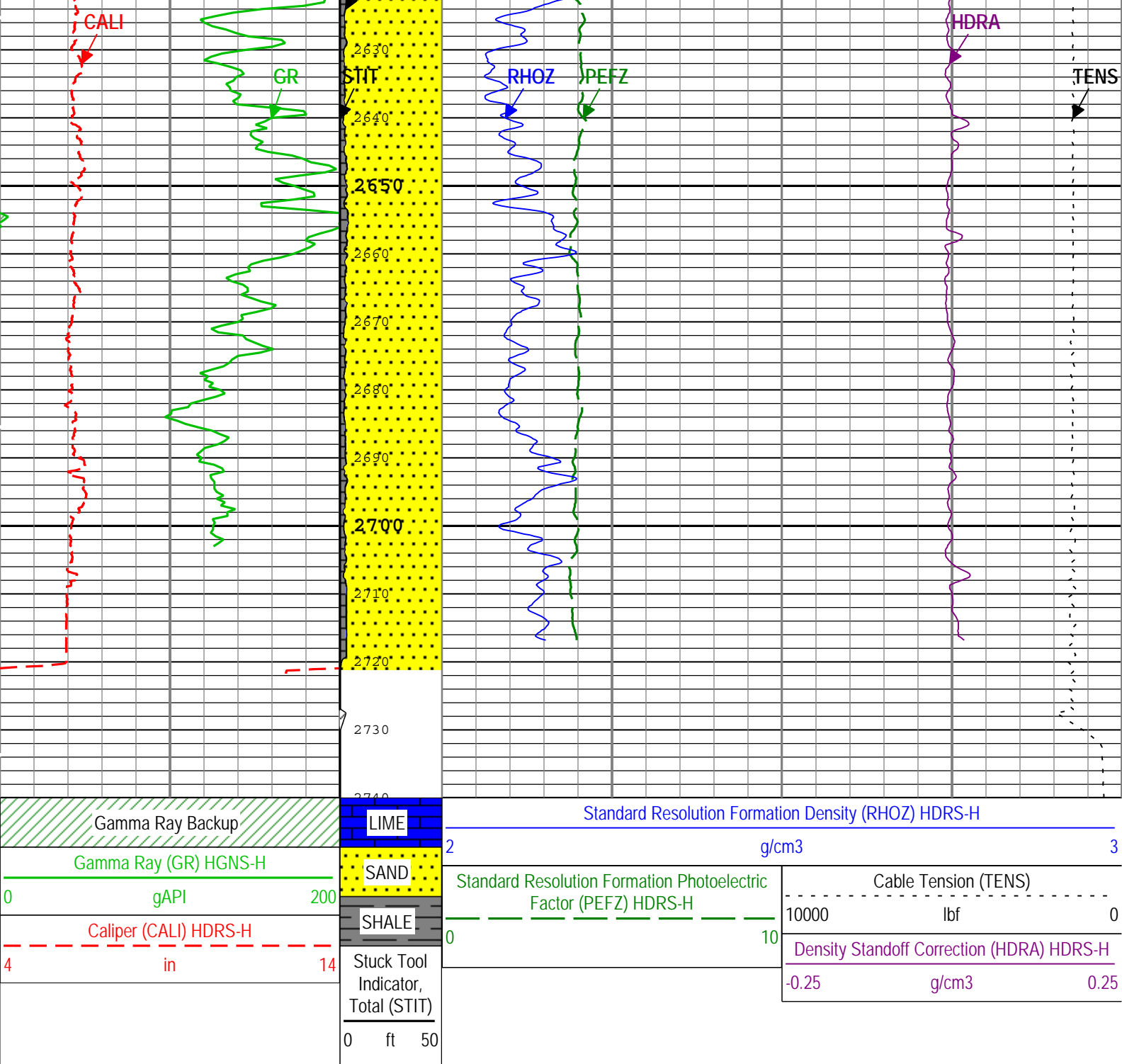












TIME\_1900 - Time Marked every 60.00 (s)

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: 24-Nov-2014 20:38:38

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	6.25	in
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	498	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.8	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				
TD	Total Measured Depth	Borehole	2727.5	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 ONE							
Primary Equipment :							
	HILT High-Resolution Control Cartridge, 150 degC	HRCC-H					
	HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	3760				
Auxiliary Equipment :							
	HRDD Backscatter Detector	Backscatter	3760				
	HRDD Long Spacing Detector	Long Spacing	3760				
	HRDD Short Spacing Detector	Short Spacing	3760				
	Cesium 137 Gamma-Ray Logging Source	GSR-J	5471				
	HILT High-Resolution Control Cartridge, 150 degC	HRCC-H					
	HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H					
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):		07:31:18 24-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	8.32	10.00	
Large Ring	in	Before	12.00	9.00	12.21	15.00	
HDRS Density Calibration - Inversion Results							
Master (EEPROM):		16:02:40 31-Oct-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	1.688	1.696	
Pe Aluminum		Master	2.570	2.470	2.536	2.670	
Pe Magnesium		Master	2.650	2.550	2.622	2.750	
HDRS Density Calibration - Deviation Summary							
Master (EEPROM):		16:02:40 31-Oct-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.4294	0.6000	
BS Max Deviation	%	Master	0	-1.6000	1.0294	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.3695	1.0000	
SS Max Deviation	%	Master	0	-2.5000	0.8960	2.5000	
LS Average Deviation	%	Master	0	-1.5000	1.1732	1.5000	
LS Max Deviation	%	Master	0	-3.5000	3.1972	3.5000	
HDRS Density Calibration - Background Summary							
Master (EEPROM):		16:02:40 31-Oct-2014		Before (Measured):		07:29:54 24-Nov-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7358		
		Before	0.7358	0.6990	0.7393	0.7726	
		Before-Master	-----	-----	0.0035	-----	
BS Window Sum	1/s	Master	1		23801		
		Before	23801	22611	23805	24992	
		Before-Master	-----	-----	4	-----	
SS Window Ratio		Master	1.0000		0.4842		

SS Window Ratio		Master Before Before-Master	1.0000 0.4842 -----	0.4600 -----	0.4842 0.4864 0.0022	0.5085 -----	
SS Window Sum	1/s	Master Before Before-Master	1 9726 -----	9240 -----	9726 9686 -40	10212 -----	
LS Window Ratio		Master Before Before-Master	1.0000 0.3001 -----	0.2851 -----	0.3001 0.3024 0.0023	0.3151 -----	
LS Window Sum	1/s	Master Before Before-Master	1 1172 -----	1113 -----	1172 1165 -7	1230 -----	

### HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 16:02:40 31-Oct-2014		Before (Measured):		07:29:54 24-Nov-2014			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1357	2400	
		Before		1000	1392	2400	
		Before-Master	-----	-100	35	100	
SS PM High Voltage	V	Master		1000	1636	2400	
		Before		1000	1690	2400	
		Before-Master	-----	-100	54	100	
LS PM High Voltage	V	Master		1000	1201	2400	
		Before		1000	1200	2400	
		Before-Master	-----	-100	-1	100	

### HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 16:02:40 31-Oct-2014		Before (Measured):		07:29:54 24-Nov-2014			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.62	25.00	
		Before		5.00	10.64	25.00	
		Before-Master	-----	-1.00	0.02	1.00	
SS Crystal Resolution	%	Master		5.00	9.50	20.00	
		Before		5.00	9.88	20.00	
		Before-Master	-----	-1.00	0.38	1.00	
LS Crystal Resolution	%	Master		5.00	8.46	20.00	
		Before		5.00	8.47	20.00	
		Before-Master	-----	-1.00	0.01	1.00	

### HDRS MCFL Calibration - MCFL Accumulations

Before (Measured): 07:25:00 24-Nov-2014							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3861	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3805	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3818	4136	

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

Primary Equipment :			
HILT Gamma-Ray and Neutron Sonde, 150 degC		HGNS-H	
Auxiliary Equipment :			
HGNS Accelerometer, 150 degC		HACCZ-H	6991
AmBe Neutron Logging Source		NSR-F	2554
Calibration Parameter :			
Water Temperature			
Housing Size			
JIG-BKG (Jig minus background reference)		165	

### HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured): 13:46:21 24-Nov-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 (EEPROM): 00:00:00 15-May-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	----	----	-4298.000	----	
Accelerometer Coefficients - 1		Master	----	----	50.180	----	
Accelerometer Coefficients - 2		Master	----	----	-0.002	----	
Accelerometer Coefficients - 3		Master	----	----	0.000	----	
Accelerometer Coefficients - 4		Master	----	----	2.754	----	
Accelerometer Coefficients - 5		Master	----	----	0.000	----	
Accelerometer Coefficients - 6		Master	----	----	0.000	----	
Accelerometer Coefficients - 7		Master	----	----	0.000	----	
Accelerometer Coefficients - 8		Master	----	----	300.500	----	
Accelerometer Coefficients - 9		Master	----	----	0.994	----	

### HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM):		16:20:48 22-Oct-2014		Before (Measured):		07:32:36 24-Nov-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	28.0	40.0	
		Before	0	5.0	27.6	40.0	
		Before-Master	----	-4.2	-0.4	4.2	
Far Zero Measurement	1/s	Master	0	5.0	27.3	40.0	
		Before	0	5.0	29.1	40.0	
		Before-Master	----	-4.1	1.8	4.1	
Near Plus Measurement	1/s	Master	6031.0	4700.0	5698.0	6900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Far Plus Measurement	1/s	Master	2793.0	1900.0	2348.0	2900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Near Corrected Plus Measurement	1/s	Master		4700.0	5673.0	6900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	
Far Corrected Plus Measurement	1/s	Master		1900.0	2321.0	2900.0	
		Before	----	----	----	----	
		Before-Master	----	----	----	----	

### HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		07:32:27 24-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	74.0	120.0	
RGR Plus Measurement	gAPI	Before	185.4	157.1	161.7	206.3	
GR Calibration Gain		Before	0.89	0.80	1.02	1.05	

Company:	Omimex Petroleum Inc.	Schlumberger
Well:	Gueck 10-19-7-44	
Field:	Holyoke South	
County:	Weld	
State:	Colorado	
Platform Express		
Compensated Neutron Log		
LithoDensity		