

Company: Omimex Petroleum, Inc

Well: Bledsoe 13x-2-5-45

Field: Ballyneal

County: Yuma State: Colorado

Platform Express

Triple Combo

County:	Yuma				
Field:	Ballyneal				
Location:					
Well:	Bledsoe 13x-2-5-45				
Company:	Omimex Petroleum, Inc				
		Location:			
		SHL : 306' FSL x 630' FWL SWSW	Elev.:	K.B.	3817.00 ft
				G.L.	3811.00 ft
				D.F.	3816.00 ft
		Permanent Datum:	Ground Level	Elev.:	3811.00 f
		Log Measured From:	Kelly Bushing	6.00 ft	above Perm.Datum
		Drilling Measured From:	Kelly Bushing		
		API Serial No.	Section:	Township:	Range:
		05-125-11969-00	2	5N	45W

Logging Date 26-Jun-2013

Run Number Run 1

Depth Driller 2736.00 ft

Schlumberger Depth 2732.00 ft

Bottom Log Interval 2732.00 ft

Top Log Interval 473.00 ft

Casing Driller Size @ Depth 7 in @ 454.00 ft

Casing Schlumberger 473 ft

Bit Size 6.25 in

Type Fluid In Hole Fresh Water

Density Viscosity 9 lbm/gal 31 s

Fluid Loss PH

MUD Source of Sample Flowline

RM @ Meas Temp 0.11 ohm.m @ 81.6 degF

RMF @ Meas Temp 0.08 ohm.m @ 81.6 degF

RMC @ Meas Temp 0.14 ohm.m @ 81.6 degF

Source RMF RMC Calculated

RM @ BHT RMF @ BHT 0.08 @ 111 0.06 @ 111

Max Recorded Temperatures 111 degF 111 111

Circulation Stopped 26-Jun-2013 20:45:00

Logger on Bottom 27-Jun-2013 00:31:12

Unit Number Location: 2154 Fort Morgan

Recorded By Arvin Shi

Witnessed By Paul Dekaye

Disclaimer

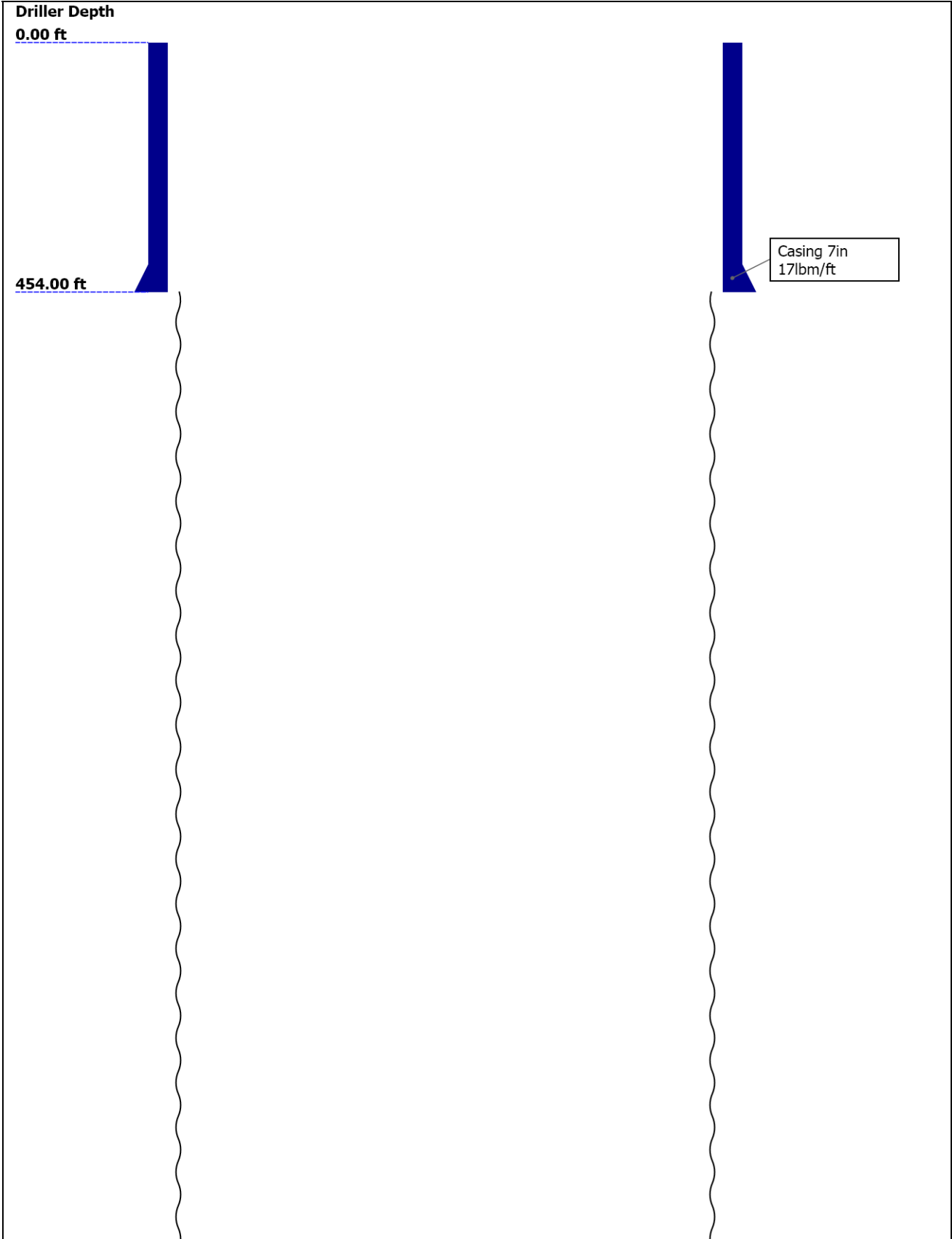
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Well Sketch



2736.00 ft

Open Hole 6.25in

Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	6.25					
Top Driller (ft)	454					
Top Logger (ft)	473					
Bottom Driller (ft)	2736					
Bottom Logger (ft)	2732					
Casing						
Size (in)	7					
Weight (lbm/ft)	17					
Inner Diameter (in)	6.54					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	454					
Bottom Logger (ft)	473					

Operational Run Summary

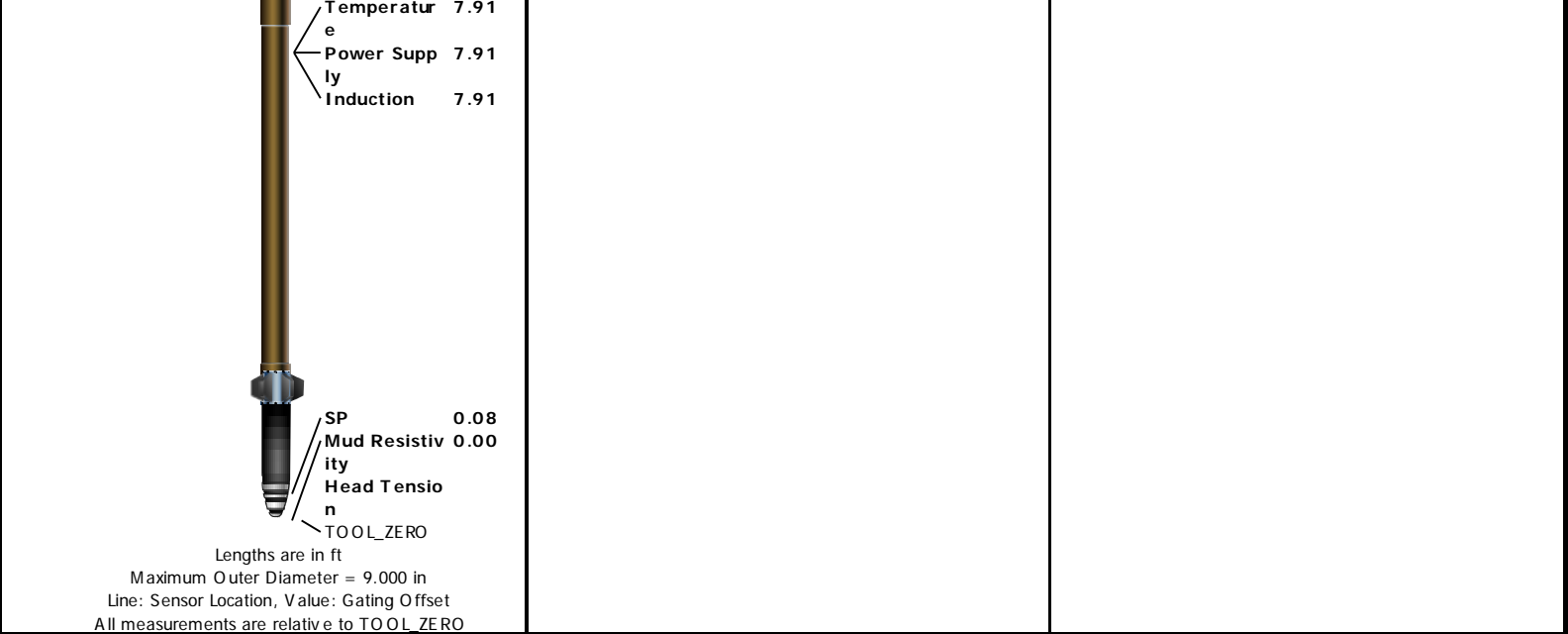
Parameter (unit)	Run 1					
Date Log Started	26-Jun-2013					
Time Log Started	23:59:39					
Date Log Finished	27-Jun-2013					
Time Log Finished	01:28:16					
Top Log Interval (ft)	473.00					
Bottom Log Interval (ft)	2732.00					
Total Depth (ft)	2732.00					
Max Hole Deviation (deg)	1.29					
Azimuth of Max Deviation (deg)	166.66					
Bit Size (in)	6.250					
Logging Unit Number	2154					
Logging Unit Location	Fort Morgan					
Recorded By	Arvin Shi					
Witnessed By	Paul Dekaye					
Service Order Number	C6VJ-00062					

Remarks and Equipment Summary

Run 1: Toolstring

Run 1: Remarks

Equip name	Length	MP name	Offset
LEH-QT LEH-QT	55.57		
DTC-H ECH-KC DTC-H	52.65	CTEM HV	51.75 0.00
A daptor_Head	49.65	TelStatus ToolStatus	49.65 49.65
GPIT-F GPIH-B DHRU-F GPIC-F	41.65	GPIT-F Incl inometer	40.23
HGNS-H HGNH NPV-N NSR-F:2554 HMCA-H HACCZ-H:6991 HGNS-H	37.65	GPIT Temperature GR	0.00 37.62 36.91
HDRS-H ECH-MEB HRCC-H HRMS-H GPV-Q Long Spacing:28 620 HRGD-H:3870 Short Spacing Backscatter GSR-J:5471	28.24	CNL Porosity HGNS HMCA Accelerometer HRCC	30.57 28.24 28.24 0.00 24.24
AIT-H:392 AHIS:392 AHRM	16.00	MCFL Caliper TLD Density	18.81 18.33 17.94



Depth Summary

Depth Control Parameters	Run 1		
Conveyance Type	Wireline		
Rig Type	Land		
Depth Measuring Device	Run 1		
Type	IDW-JA		
Serial Number	6122		
Calibration Date	19-Jun-2013		
Calibration Cable Type	7-46 P-LXS		
Wheel Correction 1	-2		
Wheel Correction 2	-3		
Tension Device	Run 1		
Type	CMTD-B/A		
Serial Number	1433		
Calibration Date	21-Jun-2013		
Calibration Points	10		
Calibration RMS	6		
Calibration Peak Error	9		
Logging Cable	Run 1		
Type	7-46NT-XS		
Logging Cable Length (ft)	24000.00		

Run 1

5" Triple Combo

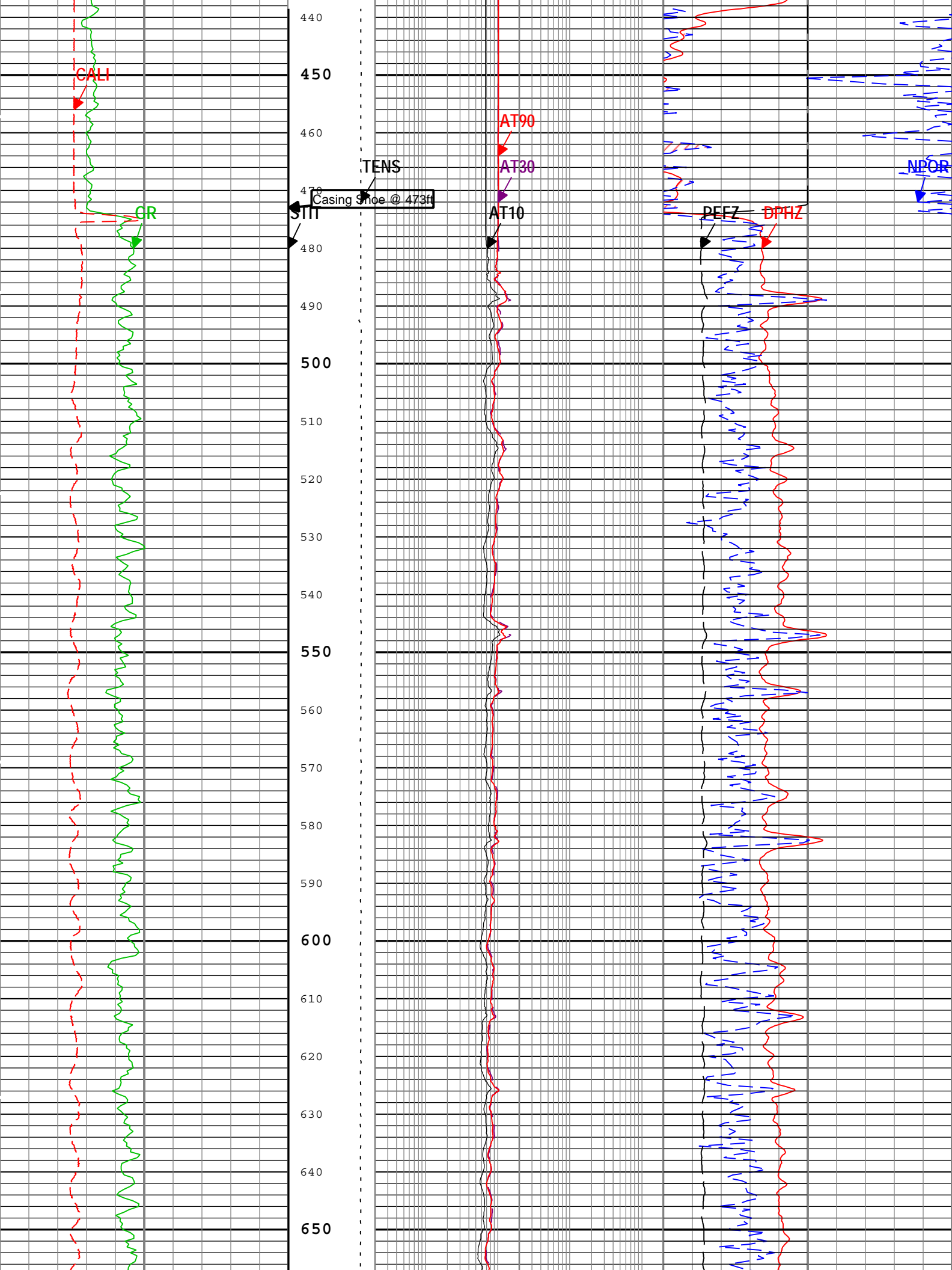
Integration Summary

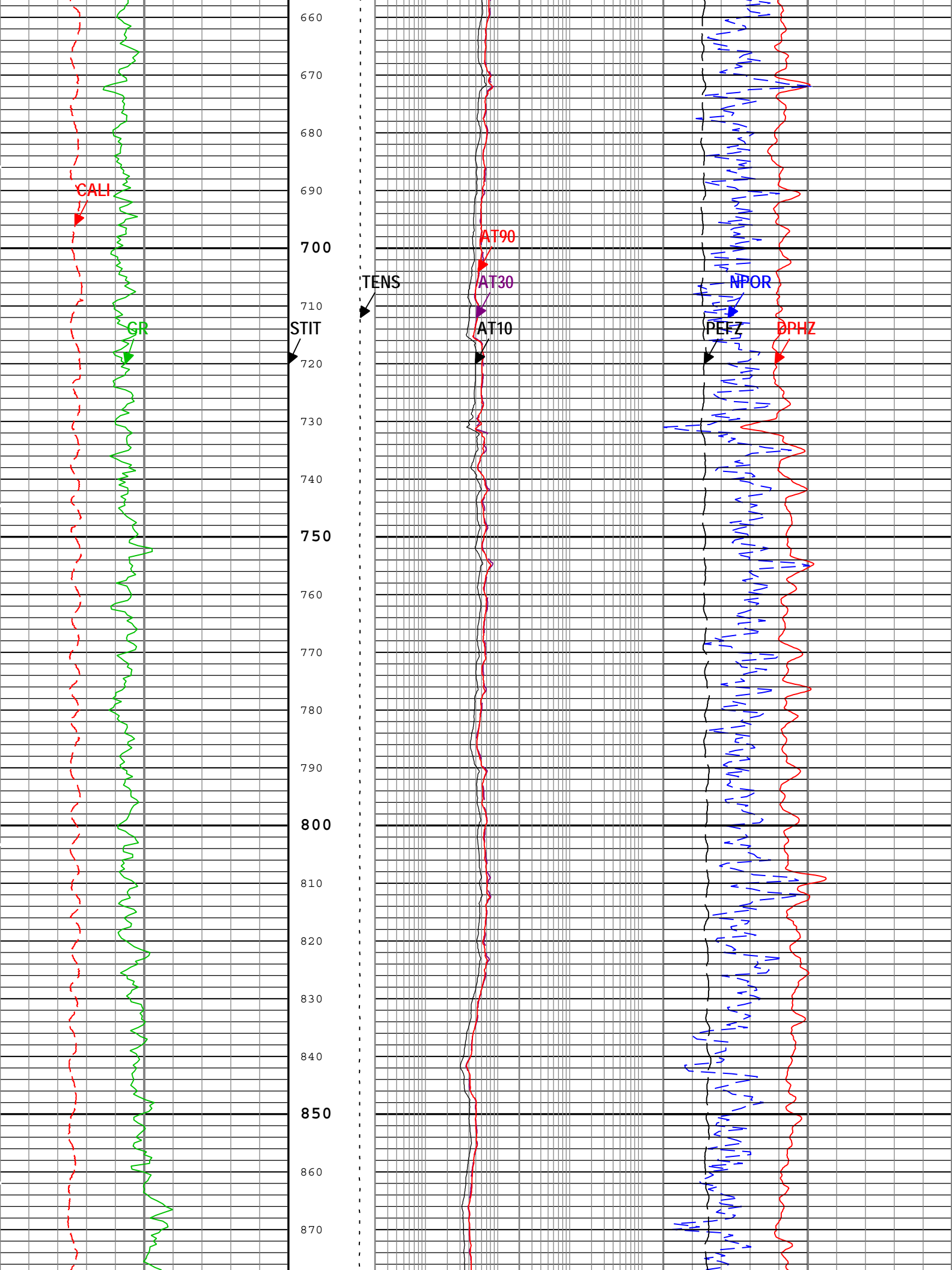
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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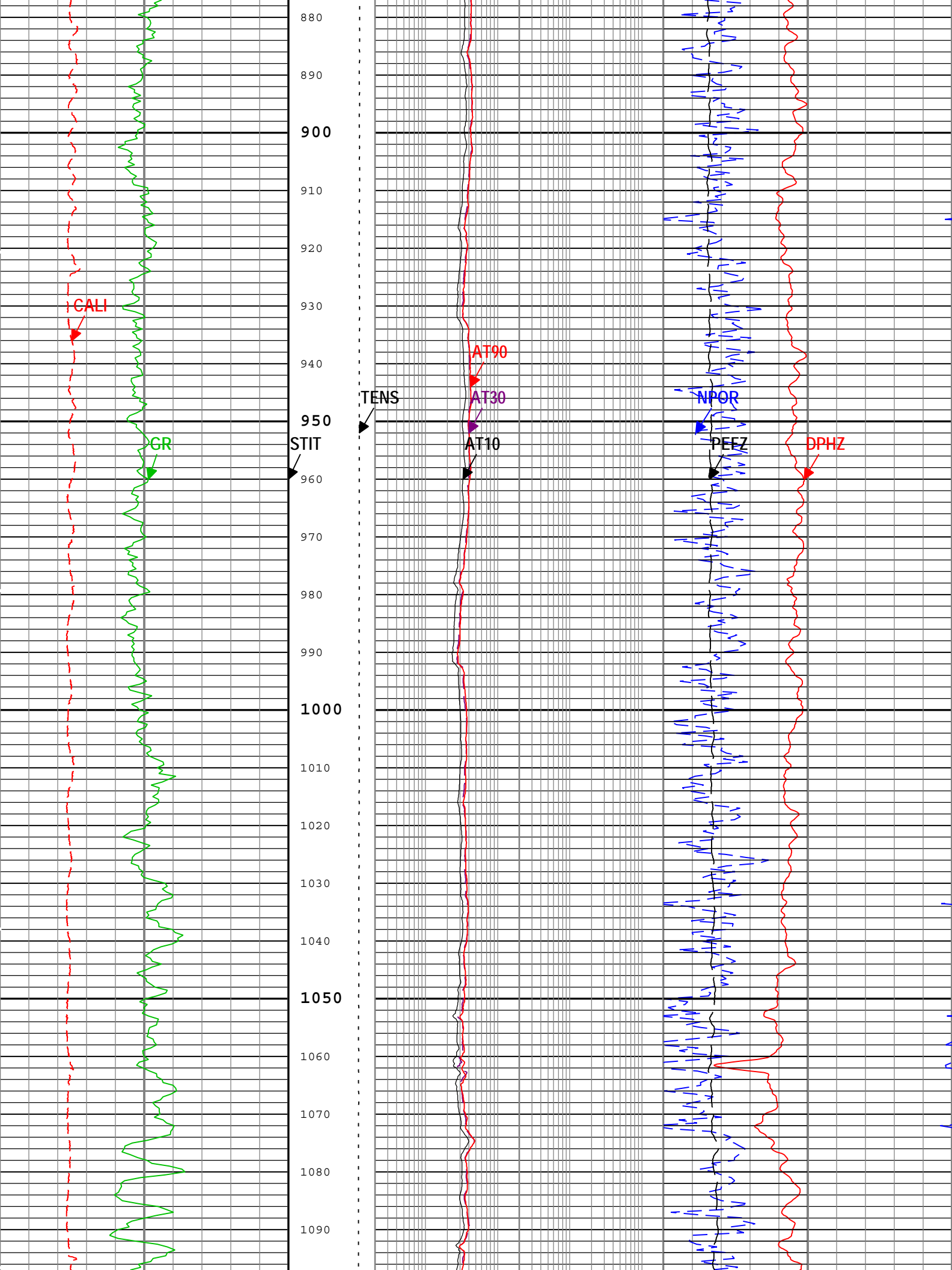
Software Version

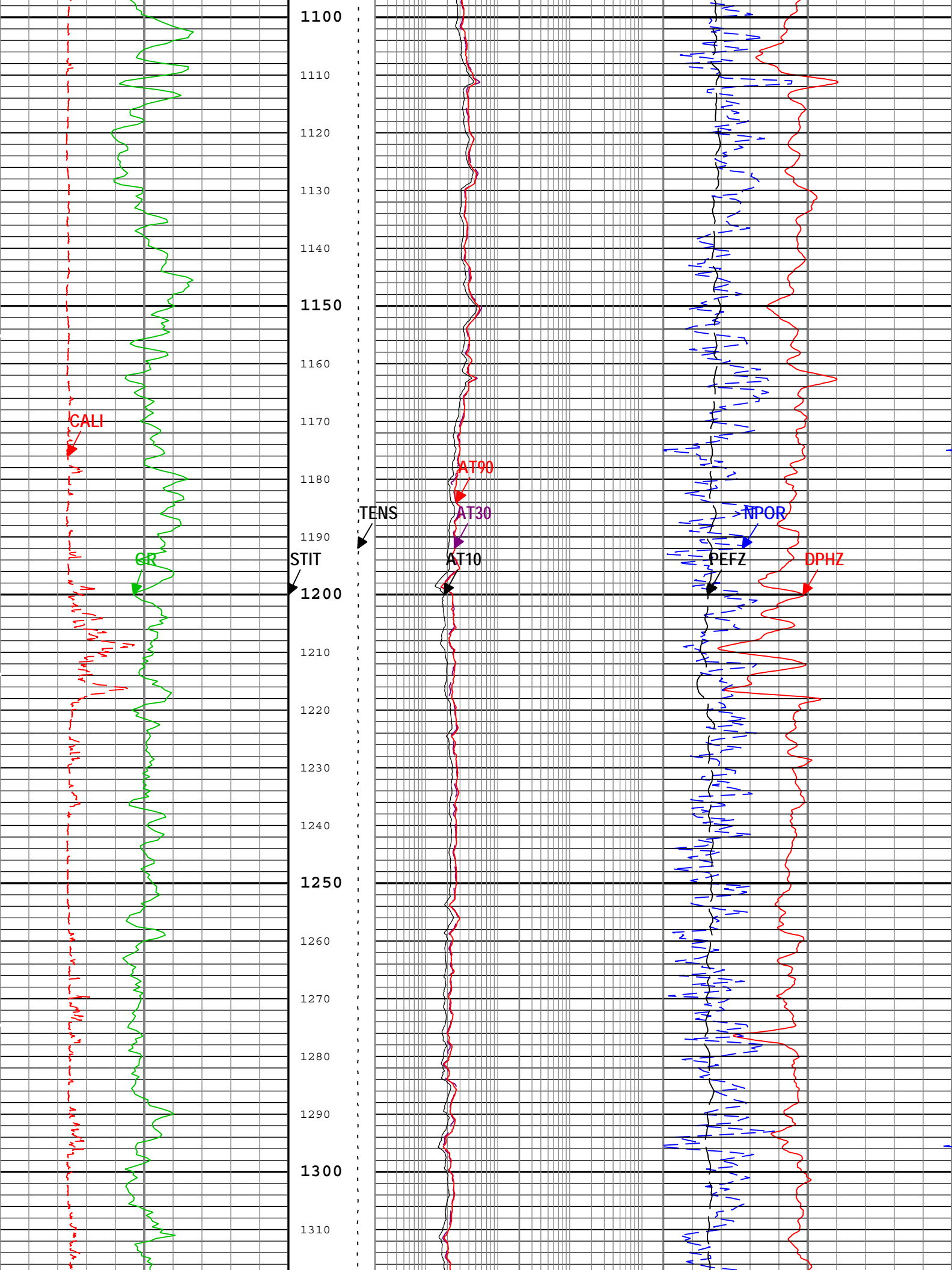
Acquisition System		Version
MaxWell		3.1.9755.0
Application Patch		SP-20130325-3.1.9755.1799
Computation	Description	Version
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections	3.1.9755.0
DepthCorrection	DepthCorrection	3.1.9755.1799

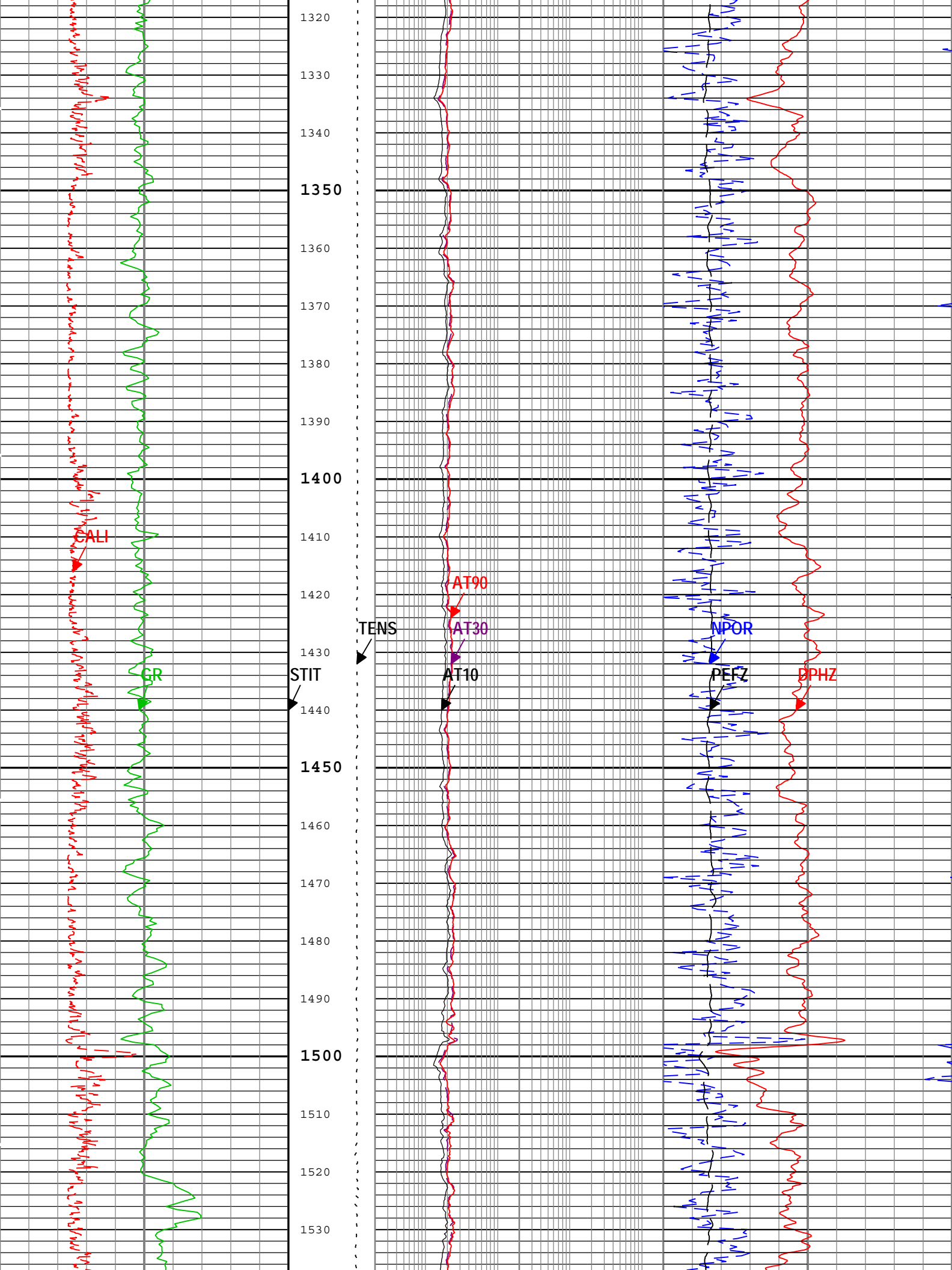
Tool Elements		Description				Software Version		Firmware Version	
HRCC-H		HILT High-Resolution Control Cartridge, 150 degC				3.1.9755.0		2.0	
HGNS-H		HILT Gamma-Ray and Neutron Sonde, 150 degC				3.1.9755.0		2.0	
AHIS		Array Induction Sonde - H				3.1.9755.1799			
HRGD-H		HILT Resistivity Gamma-Ray 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[3]:Up	Up	438.30 ft	2741.44 ft	27-Jun-2013 12:37:15 AM	27-Jun-2013 1:23:52 AM	0.00 ft	true	
All depths are referenced to toolstring zero									
Log		Run 1: Log[3]:Up							
Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo) Index Scale: 5 in per 100 ft Index Unit: ft									
Index Type: Measured Depth Creation Date: 27-Jun-2013 02:03:53									
Channel	Source			Sampling					
AT10	AIT-H:AHIS:AHIS			3in					
AT30	AIT-H:AHIS:AHIS			3in					
AT90	AIT-H:AHIS:AHIS			3in					
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			
						0		10	
				Array Induction Two Foot Resistivity A10 (AT10) AIT-H		Gas Effect			
				0.2 ohm.m 2000		NPOR Backup			
Gamma Ray Back up				Array Induction Two Foot Resistivity A30 (AT30) AIT-H		Standard Resolution Density Porosity (DPHZ) HDRS-H			
Gamma Ray (GR) HGNS-H				0.2 ohm.m 2000		0.5 ft3/ft3 0			
0 gAPI 200				Cable Tension (TENS)		Array Induction Two Foot Resistivity A90 (AT90) AIT-H			
Caliper (CALI) HDRS-H				0.2 ohm.m 2000		Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H			
4 in 14				6000 lbf 0		0.5 m3/m3 0			
				410					
				420					
				430					

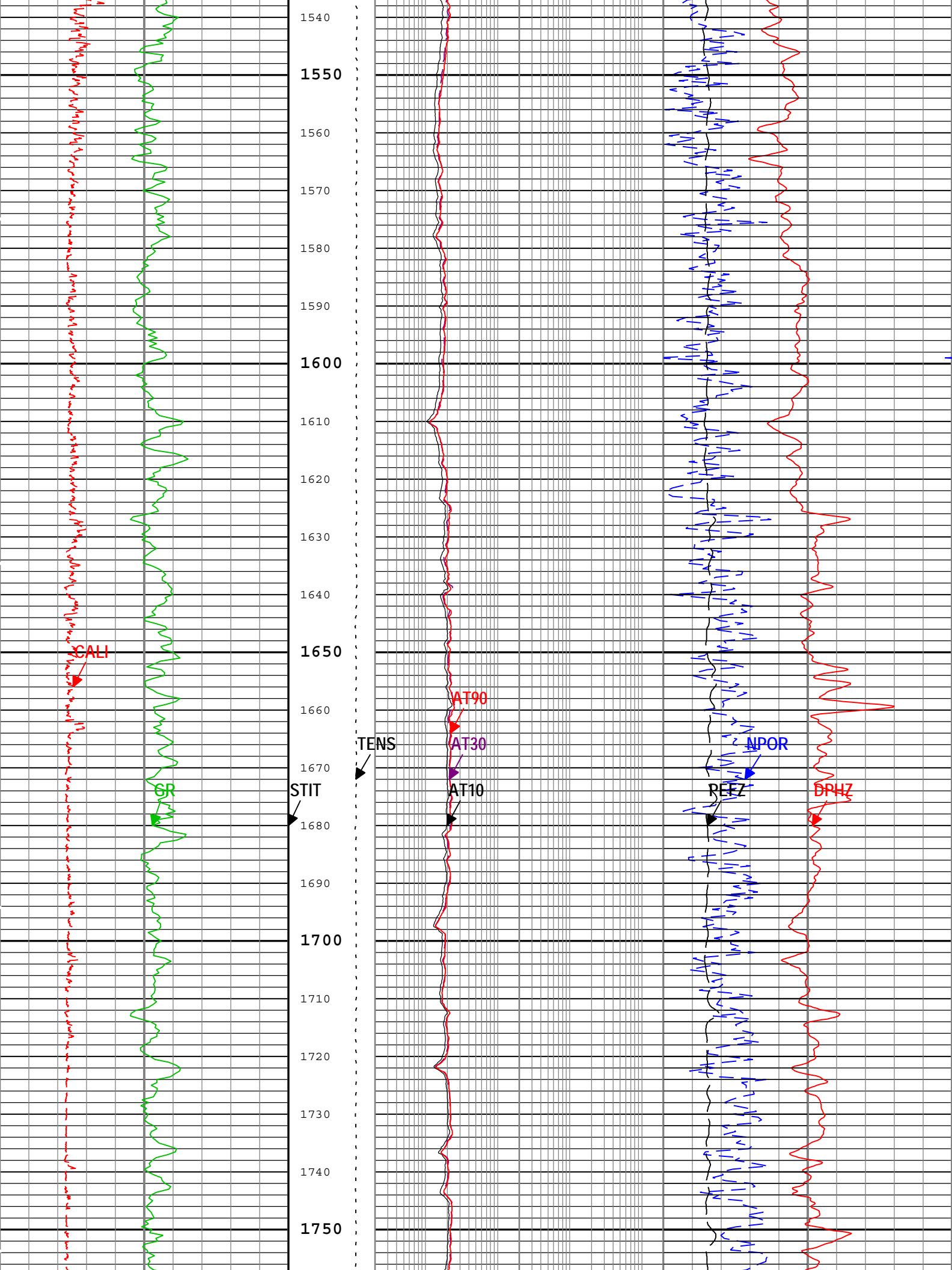


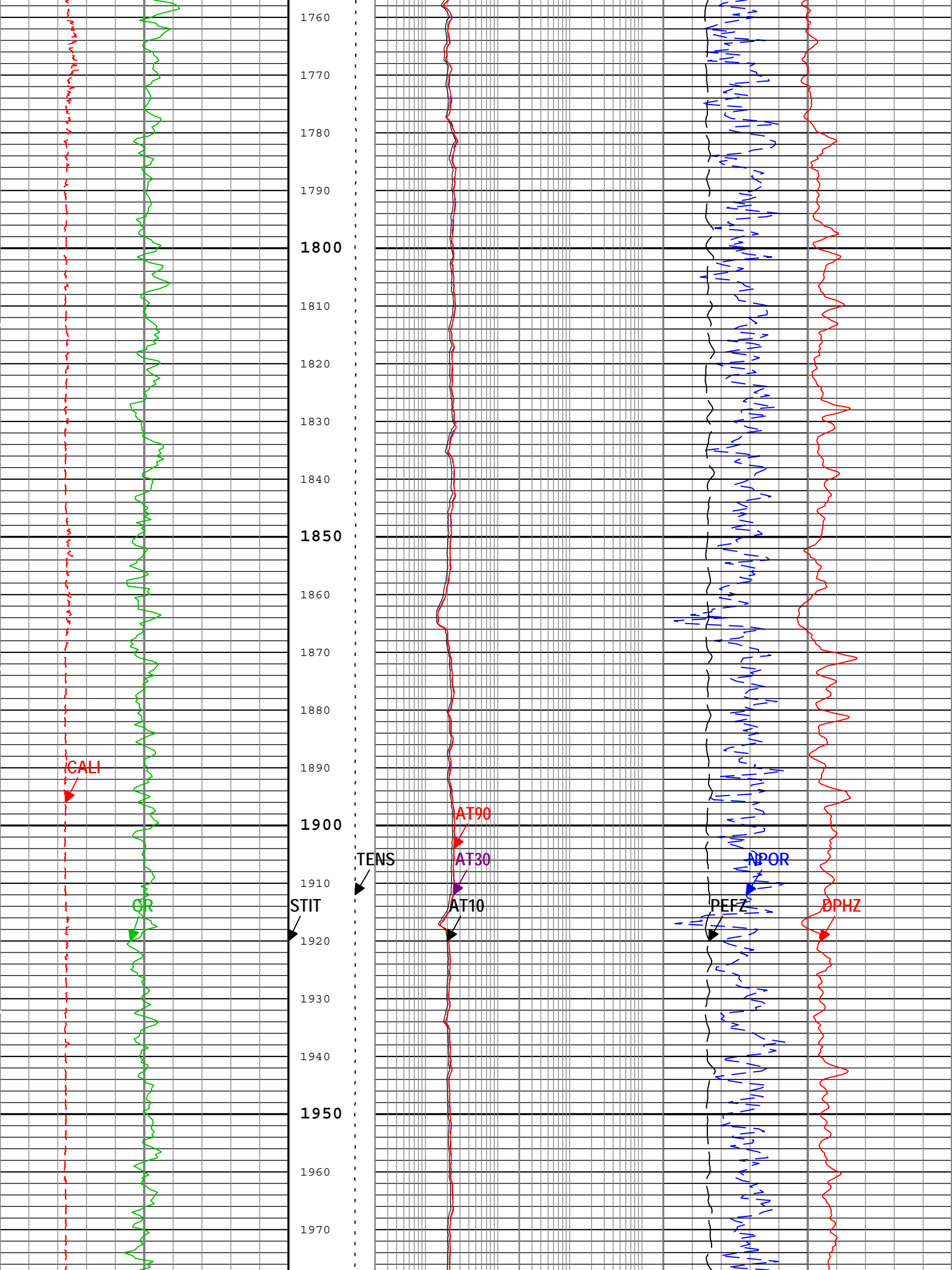


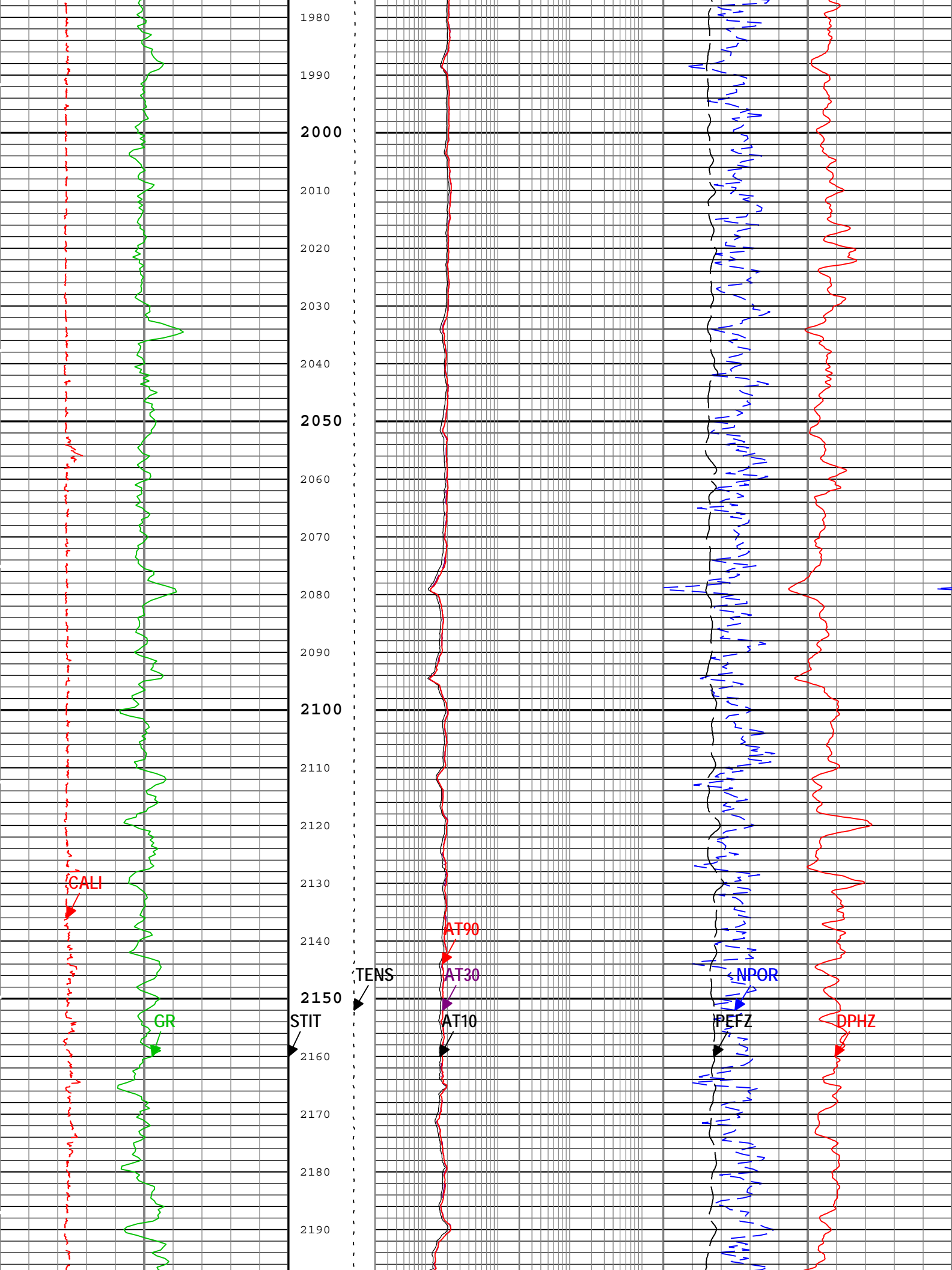


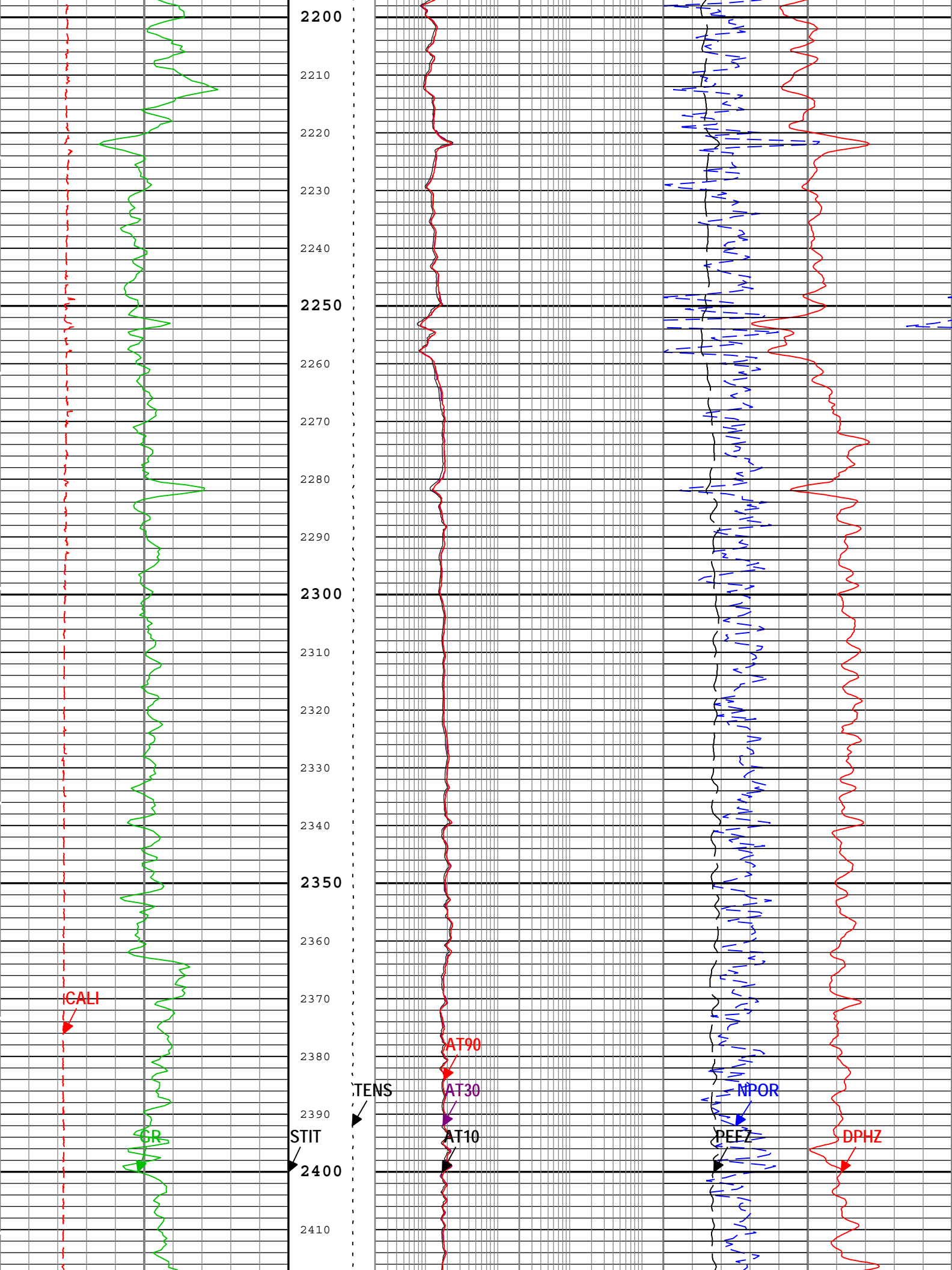


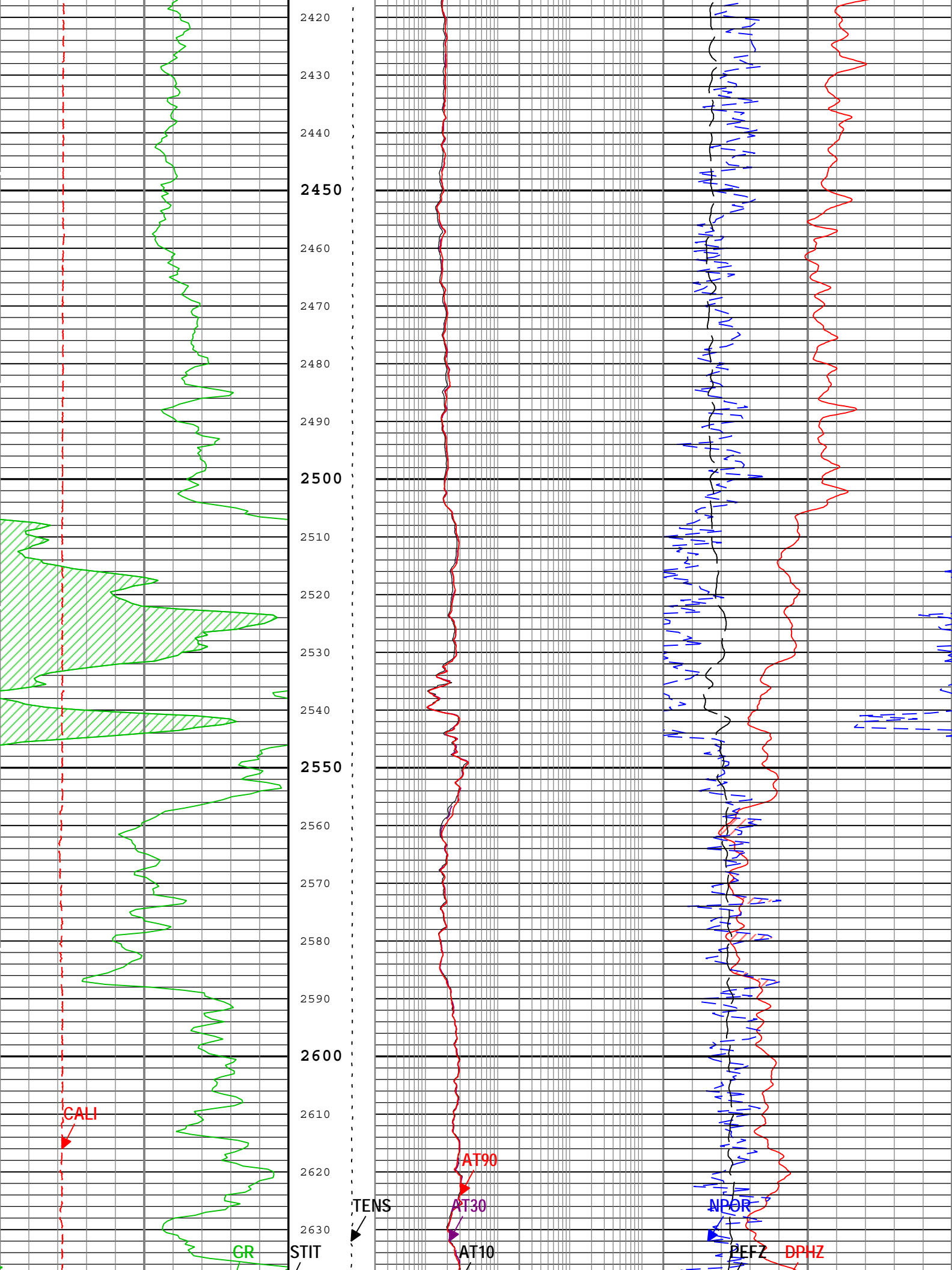


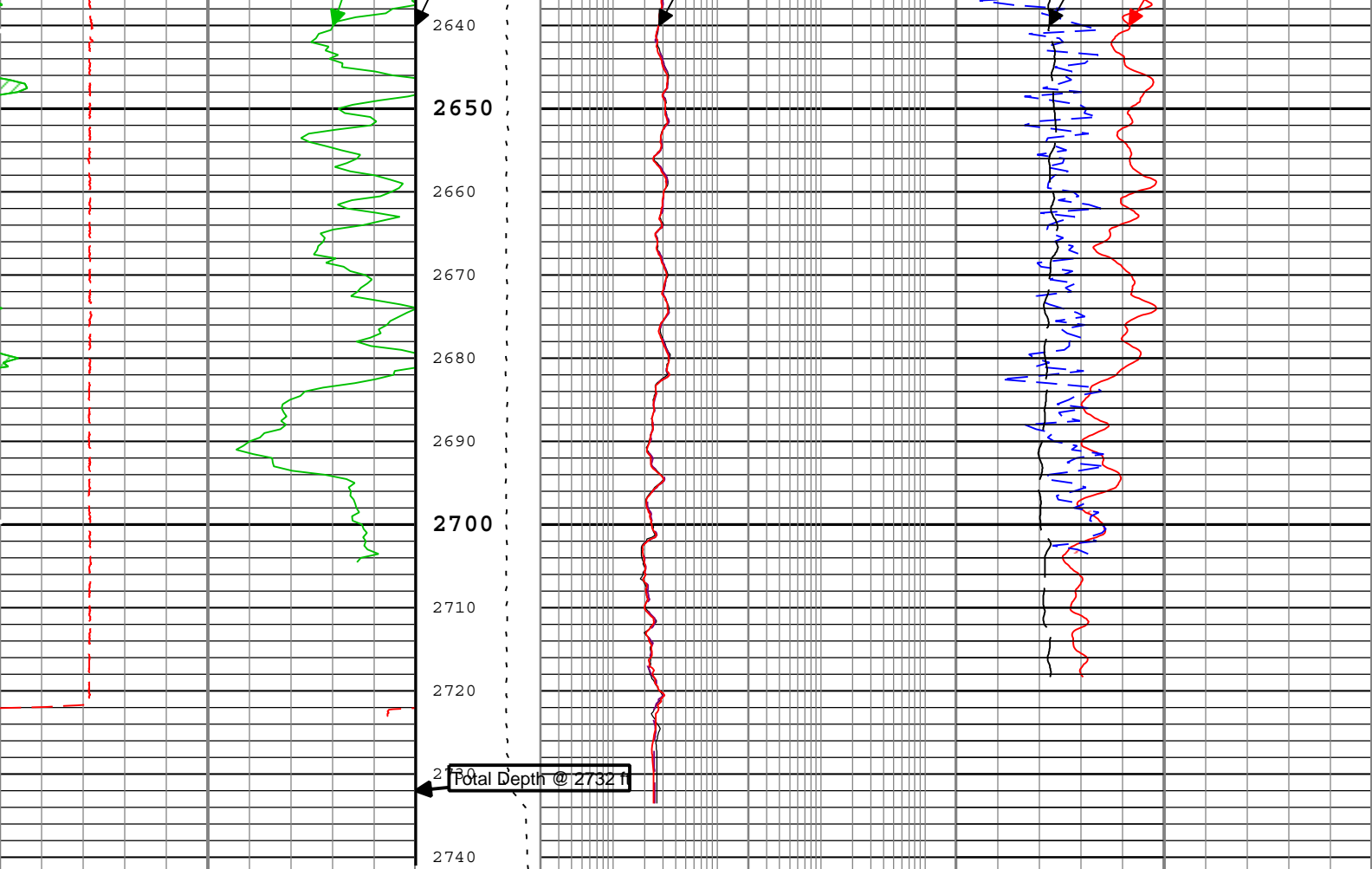












Gamma Ray Back up		Stuck Tool Indicator, Total (STIT)	Array Induction Two Foot Resistivity A10 (AT10) AIT-H		Gas Effect	
Gamma Ray (GR) HGNS-H			0.2 ohm.m 2000		NPOR Backup	
0	gAPI 200	0 ft 50	Array Induction Two Foot Resistivity A30 (AT30) AIT-H		Standard Resolution Density Porosity (DPHZ) HDRS-H	
Caliper (CALI) HDRS-H		Cable Tension (TENS)	0.2 ohm.m 2000		0.5 ft3/ft3 0	
4	in 14		Array Induction Two Foot Resistivity A90 (AT90) AIT-H		Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H	
		6000 lbf 0	0.2 ohm.m 2000		0.5 m3/m3 0	
					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: Log (EMD 5in Triple Combo) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 27-Jun-2013 02:03:53

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-H	Compute Standoff	
ABLM	Array Induction Basic Logs Mode	AIT-H	Normal	
ACDE	Array Induction Casing Detection Enable	AIT-H	Yes	
ASTA	Array Induction Tool Standoff	AIT-H	0.625	in
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	W/ SECTION	Depth Zoned	in

	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	56786.09	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0	in
CBLO	Casing Bottom (Logger)	WLSESSION	473	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	9	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	81.6	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.08	ohm.m
SOCO	Standoff Correction Option	HGNS-H	Yes	
TD	Total Measured Depth	Borehole	2732	ft

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	0	401.5	473
BS	6.25	473	2741.5
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[2]:Up	Up	2333.58 ft	2740.57 ft	27-Jun-2013 12:24:54 AM	27-Jun-2013 12:32:30 AM	0.00 ft	true
Run 1	Log[3]:Up	Up	438.30 ft	2741.44 ft	27-Jun-2013 12:37:15 AM	27-Jun-2013 1:23:52 AM	0.00 ft	true

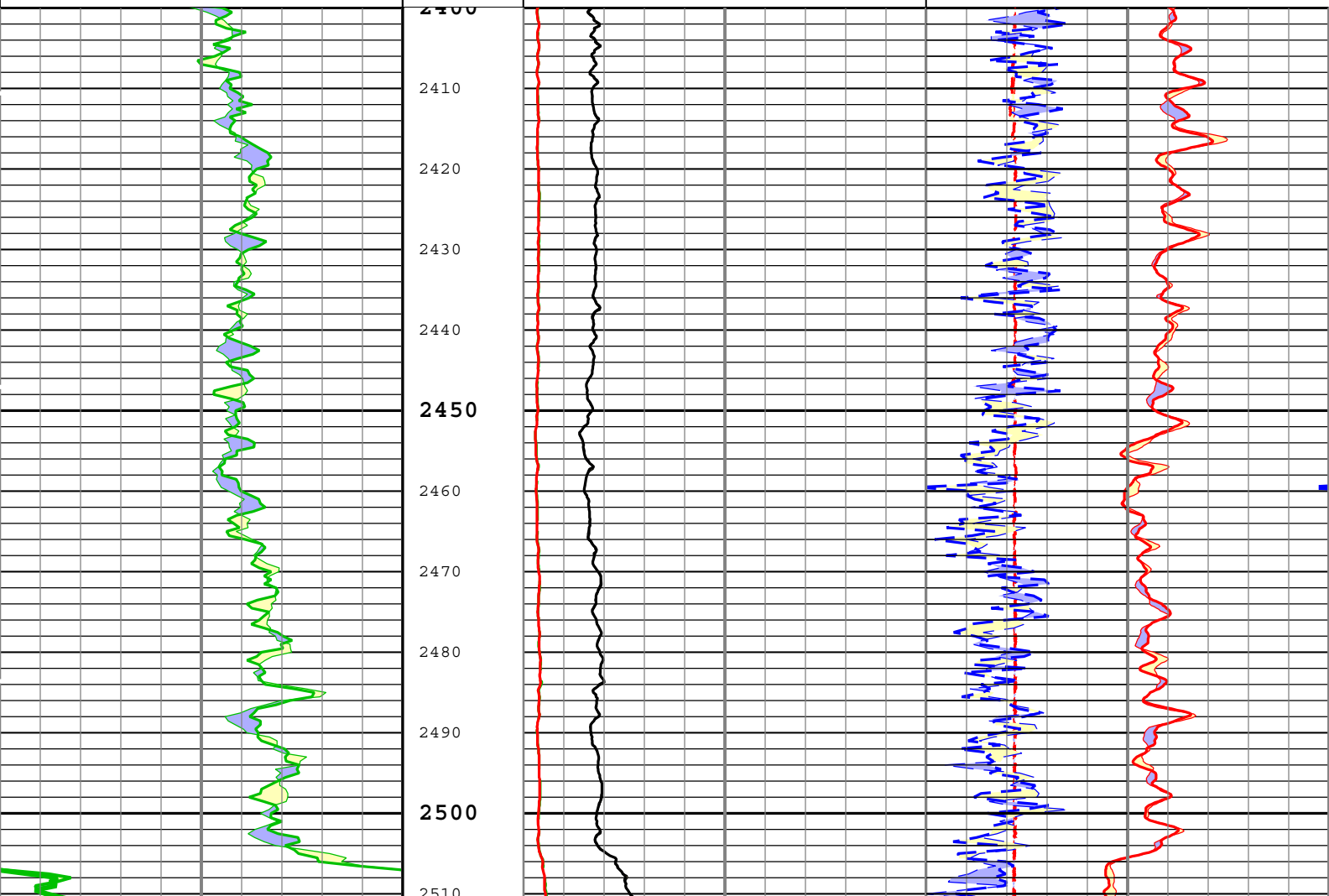
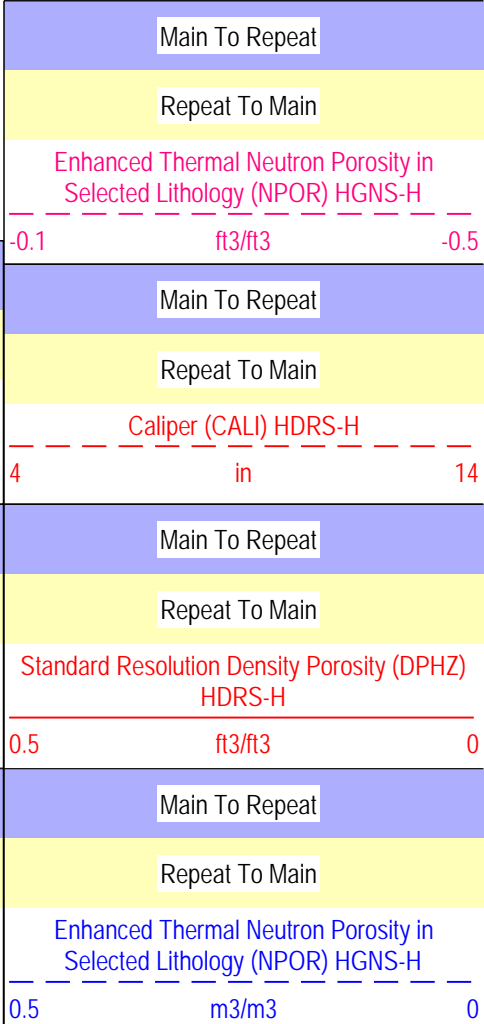
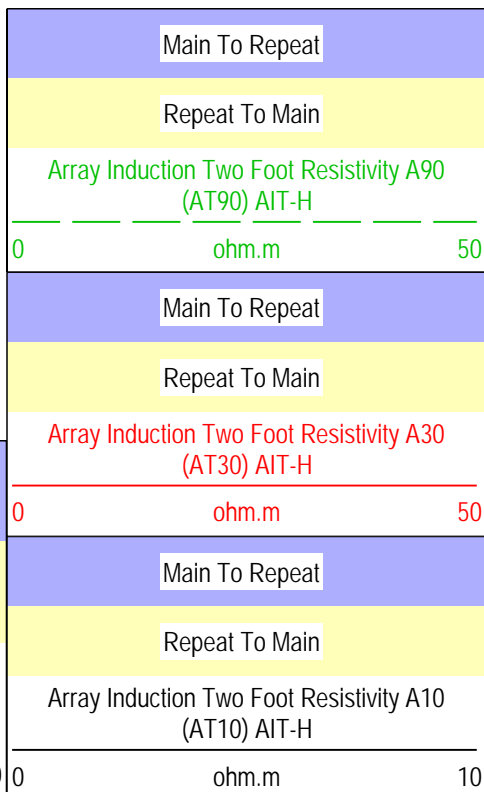
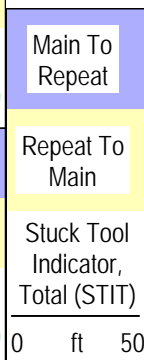
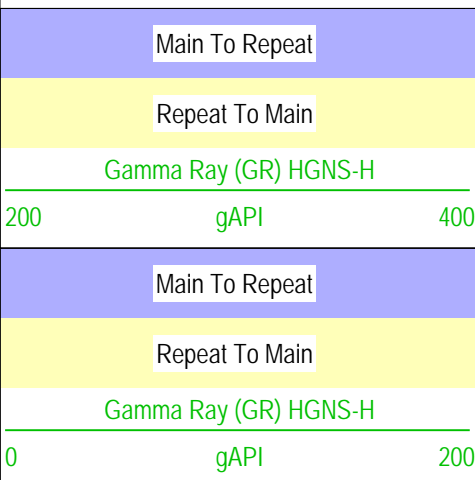
All depths are referenced to toolstring zero								
Log	Run 1: Log[3]:Up							

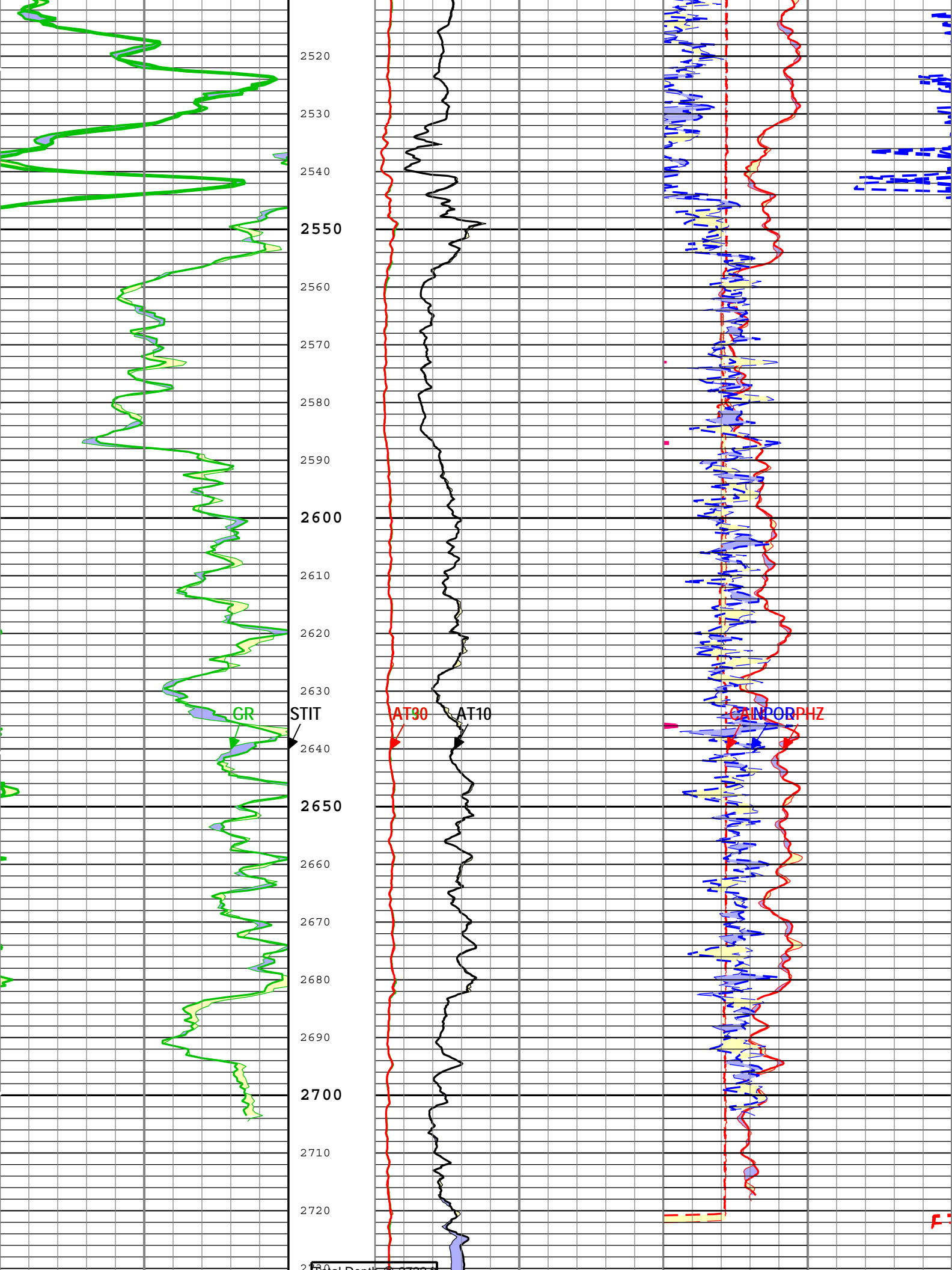
Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo Linear RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 27-Jun-2013 02:03:55

Channel Source Sampling

TIME_1900 WLWorkflow 0.1in

TIME_1900 - Time Marked every 60.00 (s)





			Total Depth @ 2732 ft								
			2740								
Main To Repeat			Main To Repeat Repeat To Main Stuck Tool Indicator, Total (STIT) 0 ft 50	Main To Repeat			Main To Repeat				
Repeat To Main				Repeat To Main			Repeat To Main				
Gamma Ray (GR) HGNS-H				Array Induction Two Foot Resistivity A90 (AT90) AIT-H			Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H				
200	gAPI			0	ohm.m		50	-0.1	ft3/ft3		-0.5
Main To Repeat				Main To Repeat			Main To Repeat				
Repeat To Main				Repeat To Main			Repeat To Main				
Gamma Ray (GR) HGNS-H				Array Induction Two Foot Resistivity A30 (AT30) AIT-H			Caliper (CALI) HDRS-H				
0	gAPI			0	ohm.m		50	4	in		14
				Main To Repeat			Main To Repeat				
				Repeat To Main			Repeat To Main				
				Array Induction Two Foot Resistivity A10 (AT10) AIT-H			Standard Resolution Density Porosity (DPHZ) HDRS-H				
				0	ohm.m		10	0.5	ft3/ft3		0
							Main To Repeat				
							Repeat To Main				
							Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H				
							0.5	m3/m3		0	

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo Linear RA) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 27-Jun-2013 02:03:55

Calibration Report							
AIT-H (Array Induction Tool - H) Calibration - Run 1							
Primary Equipment :							
Array Induction Sonde - H			AHIS		392		
Auxiliary Equipment :							
AITH Rm/SP Bottom Nose			AHRM				
AIT Sonde Calibration - Test Loop Gain							
Master (EEPROM):		09:36:07 24-May-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.020	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	0.599	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.021	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.185	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.020	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	-0.469	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.015	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	-0.274	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.999	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	-0.191	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.994	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.425	3.000	
Test Loop Gain - 6		Master	1.000	0.950	1.001	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.085	3.000	
Test Loop Gain - 7		Master	1.000	0.950	0.999	1.050	

Test Loop Gain - 7	deg	Master	0	-3.000	-0.573	3.000	
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AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM): 09:36:07 24-May-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	----	-231.000	-76.348	119.000	
Sonde Error Correction Quad - 0		Master	----	-2250.000	-582.816	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	----	114.000	189.772	204.000	
Sonde Error Correction Quad - 1		Master	----	-625.000	-61.370	625.000	
Sonde Error Correction Real - 2	mS/m	Master	----	66.000	107.478	156.000	
Sonde Error Correction Quad - 2		Master	----	-350.000	-166.181	350.000	
Sonde Error Correction Real - 3	mS/m	Master	----	39.000	66.578	89.000	
Sonde Error Correction Quad - 3		Master	----	-250.000	138.883	250.000	
Sonde Error Correction Real - 4	mS/m	Master	----	15.000	26.026	35.000	
Sonde Error Correction Quad - 4		Master	----	-63.000	-39.654	63.000	
Sonde Error Correction Real - 5	mS/m	Master	----	4.000	14.273	24.000	
Sonde Error Correction Quad - 5		Master	----	-50.000	4.841	50.000	
Sonde Error Correction Real - 6	mS/m	Master	----	5.000	9.952	15.000	
Sonde Error Correction Quad - 6		Master	----	-30.000	-12.937	30.000	
Sonde Error Correction Real - 7	mS/m	Master	----	-5.000	0.728	5.000	
Sonde Error Correction Quad - 7		Master	----	-30.000	-5.889	30.000	

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM): 09:36:07 24-May-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.843	1.200	
Fine Gain		Master	1.000	0.800	0.850	1.200	

AIT Electronics Check - Thru Calibration Check

Master (EEPROM): 09:36:07 24-May-2013 Before (Measured): 23:40:34 24-Jun-2013 After: Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	----	0.363	0.616	0.847	
		Before	----	0.363	0.618	0.847	
		After	----	----	----	----	
		Before-Master	----	----	0.002	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 0	deg	Master	----	11.000	72.868	131.000	
		Before	----	11.000	72.881	131.000	
		After	----	----	----	----	
		Before-Master	----	----	0.013	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 1	V	Master	----	0.762	1.260	1.778	
		Before	----	0.762	1.263	1.778	
		After	----	----	----	----	
		Before-Master	----	----	0.003	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 1	deg	Master	----	10.000	71.746	130.000	
		Before	----	10.000	71.765	130.000	
		After	----	----	----	----	
		Before-Master	----	----	0.019	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 2	V	Master	----	0.374	0.629	0.872	
		Before	----	0.374	0.630	0.872	
		After	----	----	----	----	
		Before-Master	----	----	0.001	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 2	deg	Master	----	6.000	67.985	126.000	
		Before	----	6.000	68.019	126.000	
		After	----	----	----	----	
		Before-Master	----	----	0.034	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 3	V	Master	----	0.422	0.711	0.986	
		Before	----	0.422	0.713	0.986	
		After	----	----	----	----	
		Before-Master	----	----	0.002	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 3	deg	Master	----	5.000	67.194	125.000	

	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	5.000 ----- ----- ----- -----	67.230 ----- 0.036 ----- -----	125.000 ----- ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 4	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.802 0.802 ----- ----- -----	1.324 1.327 ----- 0.003 -----	1.872 1.872 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 4	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-1.000 -1.000 ----- ----- -----	60.874 60.945 ----- 0.071 -----	119.000 119.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 5	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	1.173 1.173 ----- ----- -----	1.929 1.934 ----- 0.005 -----	2.737 2.737 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 5	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-3.000 -3.000 ----- ----- -----	58.941 59.032 ----- 0.091 -----	117.000 117.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 6	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	1.173 1.173 ----- ----- -----	1.928 1.933 ----- 0.005 -----	2.737 2.737 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 6	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-3.000 -3.000 ----- ----- -----	58.955 59.044 ----- 0.089 -----	117.000 117.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 7	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.849 0.849 ----- ----- -----	1.374 1.379 ----- 0.005 -----	1.981 1.981 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 7	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-7.000 -7.000 ----- ----- -----	55.176 55.442 ----- 0.266 -----	113.000 113.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Zero	mV	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-50.000 -50.000 ----- ----- -----	-0.190 -0.206 ----- -0.016 -----	50.000 50.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
SPA Plus	mV	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	941.000 941.000 ----- ----- -----	992.325 991.953 ----- -0.372 -----	1040.000 1040.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Zero	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-0.050 -0.050 ----- ----- -----	0.000 0.000 ----- 0.000 -----	0.050 0.050 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Temperature Plus	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.870 0.870 ----- ----- -----	0.919 0.919 ----- 0.000 -----	0.960 0.960 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>

Primary Equipment :

HILT High-Resolution Control Cartridge, 150 degC

HRCC-H

HILT Resistivity Gamma-Ray Density Device, 150 degC

HRGD-H

3870

Auxiliary Equipment :

HRDD Backscatter Detector

Backscatter

HRDD Long Spacing Detector

Long Spacing

28620

HRDD Short Spacing Detector

Short Spacing

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): 23:42:27 24-Jun-2013 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	7.90	10.00	
Large Ring	in	Before	12.00	9.00	12.21	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 04:59:24 25-Jun-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.597	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.687	1.696	
Pe Aluminum		Master	2.570	2.470	2.561	2.670	
Pe Magnesium		Master	2.650	2.550	2.625	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 04:59:24 25-Jun-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.3853	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.7501	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.2110	1.0000	
SS Max Deviation	%	Master	0	-2.5000	0.6452	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.5997	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.1935	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM): 04:59:24 25-Jun-2013

Before (Measured): 23:43:00 24-Jun-2013 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7396		
		Before	0.7396	0.7026	0.7387	0.7766	
		Before-Master	----	----	-0.0009	----	
BS Window Sum	1/s	Master	1		24078		
		Before	24078	22874	24038	25282	
		Before-Master	----	----	-40	----	
SS Window Ratio		Master	1.0000		0.4915		
		Before	0.4915	0.4669	0.4909	0.5160	
		Before-Master	----	----	-0.0006	----	
SS Window Sum	1/s	Master	1		13924		
		Before	13924	13228	13901	14620	
		Before-Master	----	----	-23	----	
LS Window Ratio		Master	1.0000		0.3023		
		Before	0.3023	0.2872	0.2992	0.3174	
		Before-Master	----	----	-0.0031	----	
LS Window Sum	1/s	Master	1		1248		
		Before	1248	1186	1243	1310	
		Before-Master	----	----	-5	----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 04:59:24 25-Jun-2013

Before (Measured): 23:43:00 24-Jun-2013 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1667	2400	
		Before		1000	1600	2400	

		Before-Master	-----	1000 -100	1693 26	2400 100	
SS PM High Voltage	V	Master		1000	1705	2400	
		Before		1000	1723	2400	
		Before-Master	-----	-100	18	100	
LS PM High Voltage	V	Master		1000	1327	2400	
		Before		1000	1332	2400	
		Before-Master	-----	-100	5	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 04:59:24 25-Jun-2013		Before (Measured): 23:43:00 24-Jun-2013		Expired by 1 days			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	11.52	25.00	
		Before		5.00	11.64	25.00	
		Before-Master	-----	-1.00	0.12	1.00	
SS Crystal Resolution	%	Master		5.00	10.06	20.00	
		Before		5.00	10.06	20.00	
		Before-Master	-----	-1.00	0.00	1.00	
LS Crystal Resolution	%	Master		5.00	8.33	20.00	
		Before		5.00	8.29	20.00	
		Before-Master	-----	-1.00	-0.04	1.00	

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured): 23:39:11 24-Jun-2013		Expired by 1 days					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3913	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3856	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3872	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	
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): 00:05:12 27-Jun-2013							
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): 19:00:00 14-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): 09:28:08 17-May-2013		Before (Measured): 23:39:40 24-Jun-2013		Expired by 1 days			
				After:			

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	27.4	40.0	
		Before	0	5.0	26.3	40.0	
		After	----	----	----	----	
		Before-Master	----	-4.1	-1.1	4.1	
		After-Before	----	----	----	----	
Far Zero Measurement	1/s	Master	0	5.0	27.3	40.0	
		Before	0	5.0	28.1	40.0	
		After	----	----	----	----	
		Before-Master	----	-4.1	0.8	4.1	
		After-Before	----	----	----	----	
Near Plus Measurement - 0	1/s	Master	6031.0	4700.0	6004.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Plus Measurement - 0	1/s	Master	2793.0	1900.0	2543.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Near Corrected Plus Measurement - 0	1/s	Master		4700.0	5686.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Corrected Plus Measurement - 0	1/s	Master		1900.0	2326.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured): 23:43:02 24-Jun-2013 Expired by 1 days After:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	77.0	120.0	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before	185.4	157.1	179.1	206.3	
		After	----	----	NOT DONE	----	
		After-Before	----	----	----	----	
GR Calibration Gain		Before	0.89	0.80	0.92	1.05	
		After	----	----	----	----	
		After-Before	----	----	----	----	

LEH-QT (Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor) Calibration - Run 1

Primary Equipment : Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor LEH-QT							
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HTEN Master Calibration - HTEN Master Calibration

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
HTEN Shop Gain		Master	1.000	0.800	NOT DONE	4.500	
HTEN Shop Offset	lbf	Master	0	-1000.000	NOT DONE	1000.000	

HTEN Before Calibration - HTEN Before Calibration

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RHTE Zero Measurement - 0	lbf	Before	----	----	----	----	
RHTE Plus Measurement - 0	lbf	Before	----	----	----	----	
HTEN Gain - 0		Before	----	----	----	----	
HTEN Offset - 0	lbf	Before	----	----	----	----	

Well: Bledsoe 13x-2-5-45

Field: Ballyneal

County: Yuma

State: Colorado

Platform Express

Triple Combo