

Company: Omimex Petroleum Inc

Well: Kennedy State 1 1 36 7 45

Field: Holyoke South

County: Phillip Country: USA

Platform Express
Array Induction
with Linear CorrelationCounty: Phillip
Field: Holyoke South
Location: 2226 FSL 2470 FWL
Well: Kennedy State 11 36 7 45
Company: Omimex Petroleum Inc

Location:		Elev.:	K.B.	3775.00 ft
2226 FSL 2470 FWL			G.L.	3769.00 ft
			D.F.	3775.00 ft
Permanent Datum:	Ground Level	Elev.:	3769.00 f	
Log Measured From:	Kelly Bushing	6.00 ft	above Perm.Datum	
Drilling Measured From:	Kelly Bushing			
API Serial No.	Max.Hole Deviation	Longitude:	Latitude:	
05-0095-06467	0 deg	-102.33151 degrees	40.533450 degrees	

Logging Date 19-Nov-2014

Run Number Run 1

Depth Driller 2792.00 ft

Schlumberger Depth 2792.00 ft

Bottom Log Interval 2792.00 ft

Top Log Interval 475.60 ft

Casing Driller Size @ Depth 7 in @ 477.10 ft

Casing Schlumberger 475.6 ft

Bit Size 6.25 in

Type Fluid In Hole Water

Density Viscosity 9.3 lbm/gal 33 s

Fluid Loss PH 8

MUD Source of Sample Active Tank

RM @ Meas Temp 0.62 ohm.m @ 75 degF

RMF @ Meas Temp 0.47 ohm.m @ 75 degF

RMC @ Meas Temp 0.78 ohm.m @ 75 degF

Source RMF RMC Calculated Calculated

RM @ BHT RMF @ BHT 0.23 @ 212 0.18 @ 212

Max Recorded Temperatures 114 degF

Circulation Stopped 18-Nov-2014 19:00:00

Logger on Bottom Time 19-Nov-2014 01:00:00

Unit Number Location: 3022 Fort Morgan

Recorded By Tezla Hayduk

Witnessed By Paul Dekaye

Disclaimer

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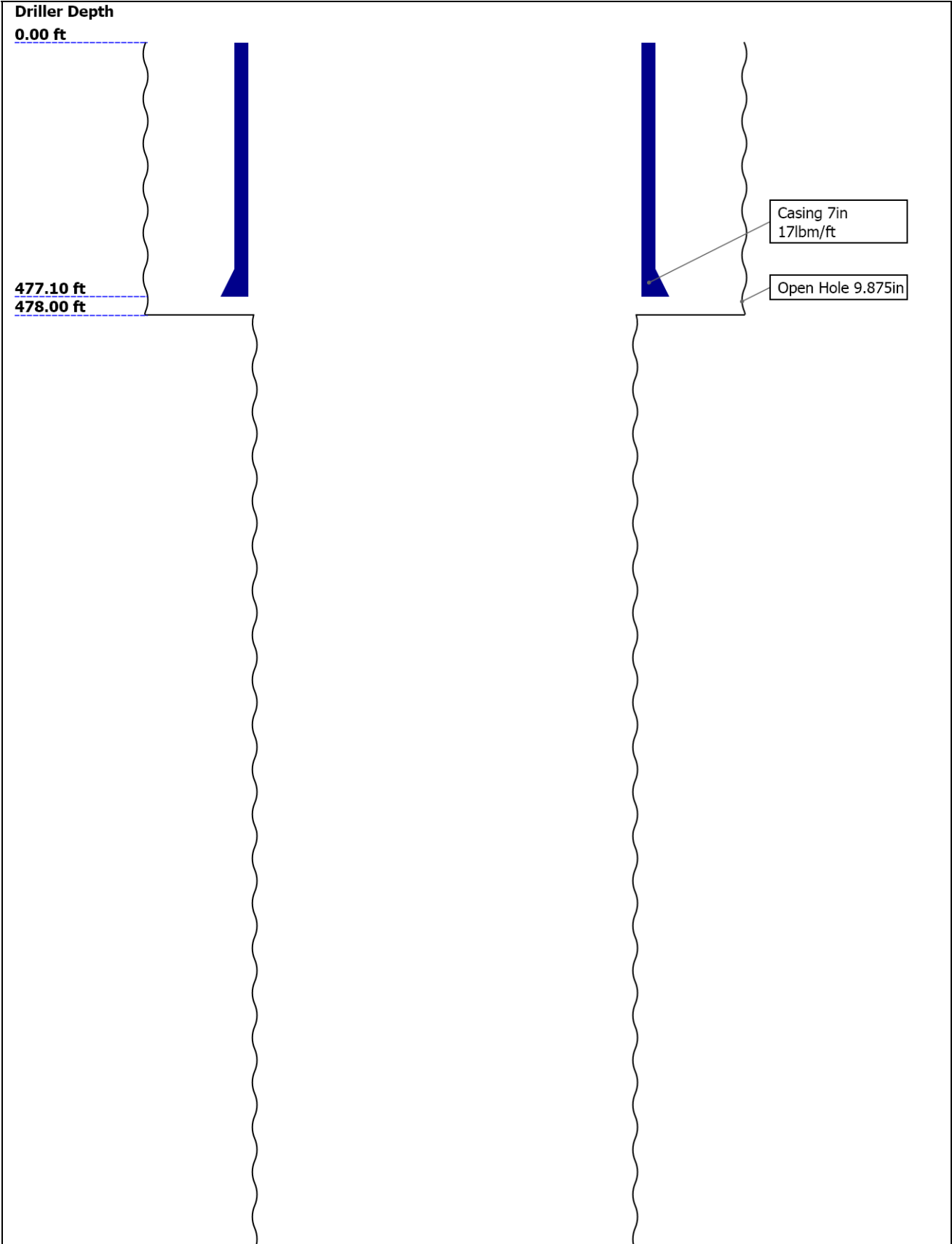
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Well Sketch





Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	9.875	6.25				
Top Driller (ft)	0	478				
Top Logger (ft)	0	478				
Bottom Driller (ft)	478	2792				
Bottom Logger (ft)	478	2792				
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)	477.1					
Bottom Logger (ft)	475.6					

Operational Run Summary

Parameter (unit)	Run 1					
Date Log Started	19-Nov-2014					
Time Log Started	00:30:42					
Date Log Finished	19-Nov-2014					
Time Log Finished	01:54:29					
Top Log Interval (ft)	475.60					
Bottom Log Interval (ft)	2792.00					
Total Depth (ft)	2789.00					
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					
Recorded By	Tezla Hayduk					
Witnessed By	Paul Dekaye					
Service Order Number	CYPH-00033					

Borehole Fluids

Parameter(unit)	Run 1					
Fluid Type	Water					
Fluid Name	Water					
Max Recorded Temperatures (degF)	114					
Source of Sample	Active Tank					
Salinity (ppm)	14800					
Density (lbm/gal)	9.3					
Funnel Viscosity (s)	33					
Fluid Loss (cm3)						
PH	8					
Date/Time Circulation Stopped	18-Nov-2014 19:00:00					
Date Logger on Bottom	19-Nov-2014					
Time Logger on Bottom	01:00:00					
Source RMF	Calculated					
RMC	Calculated					
RM @ Meas Temp (ohm.m@degF)	0.62 @ 75					
RMF @ Meas Temp (ohm.m@degF)	0.47 @ 75					
RMC @ Meas Temp (ohm.m@degF)	0.78 @ 75					
RM @ BHT (ohm.m@degF)	0.23 @ 212					
RMF @ BHT (ohm.m@degF)	0.18 @ 212					
RMC @ BHT (ohm.m@degF)	0.29 @ 212					
Total Solid (%)	7.3					
High Gravity Solids (%)						

Remarks and Equipment Summary

Run 1: Toolstring				Run 1: Remarks	
Equip name	Length	MP name	Offset	Crew: Jacob Jump, Ian Derry	
LEH-QT	51.57			Toolstring ran as per tool sketch	
LEH-QT					
DTC-H	48.65				
ECH-KC		CTEM	47.75		
DTC-H		HV	0.00		
		ToolStatus	45.65		
		TelStatus	45.65		
AH-184[2]	45.65				
AH-184[1]	43.65				
GPIT-F:770	41.65				
GPIH-B		GPIT-F Incl	40.23		
DHRU-F		ometer			
GPIC-F:770					
HGNS-H	37.65				
HGNH		GPIT	0.00		
NPV-N		Temperature	37.62		
NSR-F:5068		GR	36.91		
UWCA-10					

HMCA-H
HGNS-H
HACCZ-H:3616

— CNL Porosity 30.57
HGNS 28.24
HMCA 28.24
Acceleromete 0.00
r

HDRS-H 28.24

ECH-MEB
HRCC-H:3828
HRMS-H
Short Spacing
Backscatter
GSR-J:5094
Long Spacing:287
36
GPV-Q
HRGD-H:3933

HRCC 24.24

— MCFL 18.81
— Caliper 18.33
— TLD Density 17.94

AIT-M:50 16.00

AMIS:50
AMRM:50

Temperature 7.91
Power Supply 7.91
Induction 7.91

SP 0.08
Mud Resistivity 0.00
Head Tension
TOOL_ZERO

Lengths are in ft
Maximum Outer Diameter = 4.625 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary			
Run 1			
Depth Measuring Device			
Type	IDW-JA		
Serial Number	5896		
Calibration Date	13-Aug-2014		

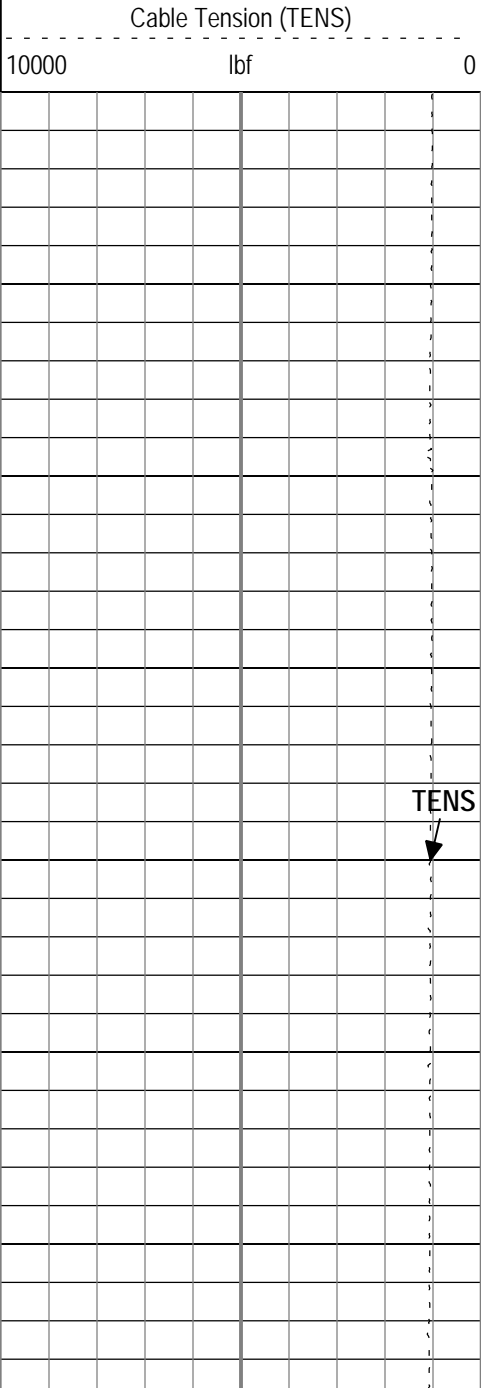
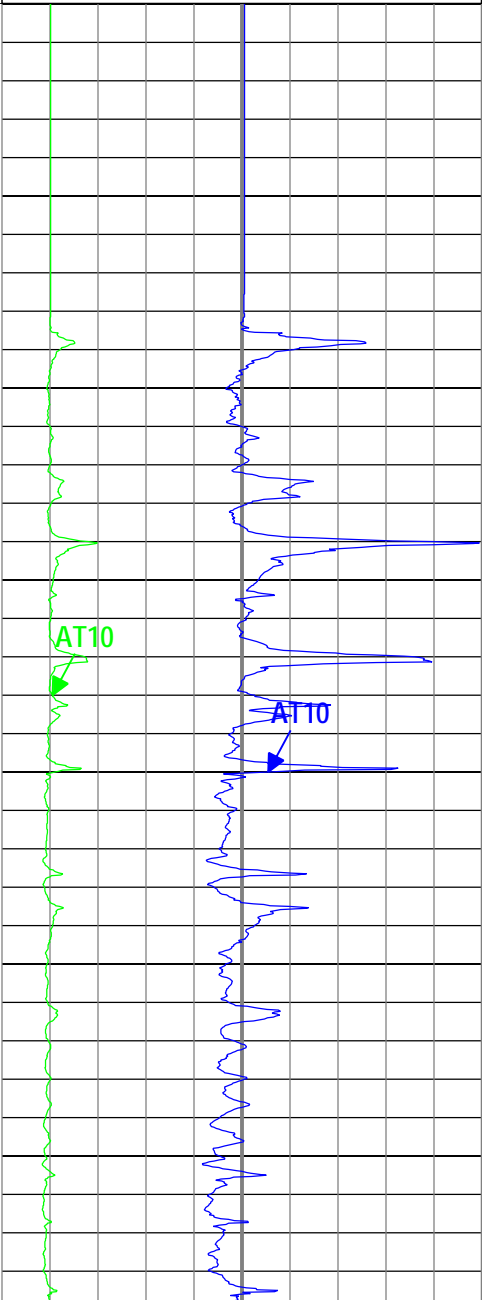
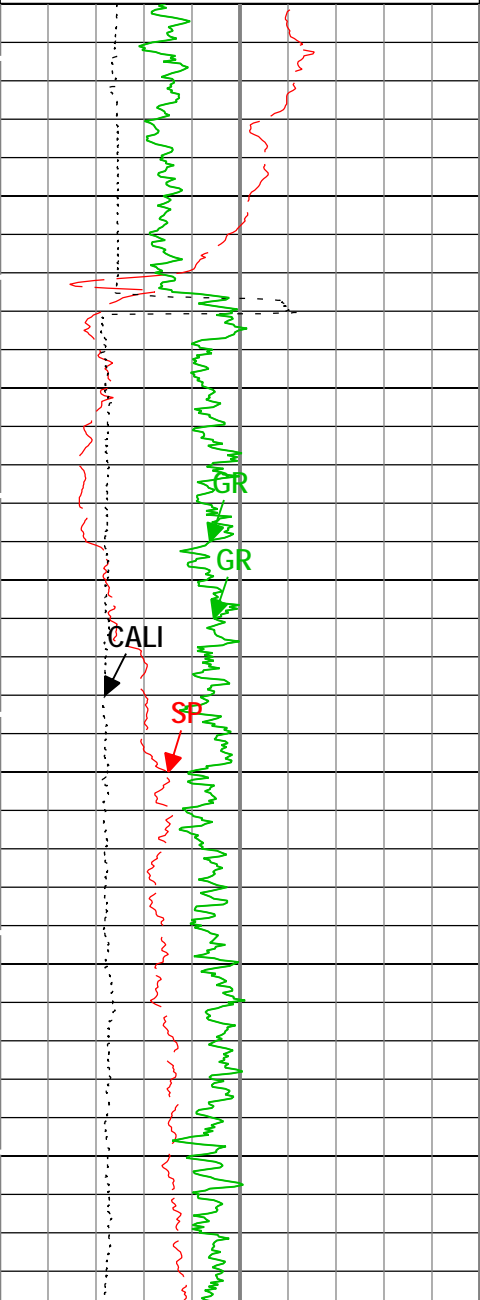
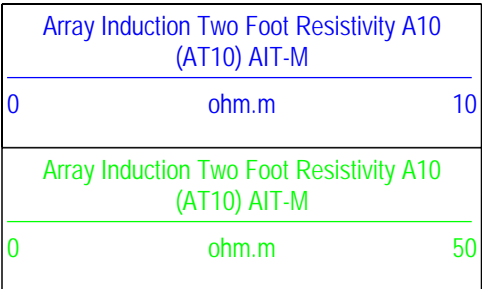
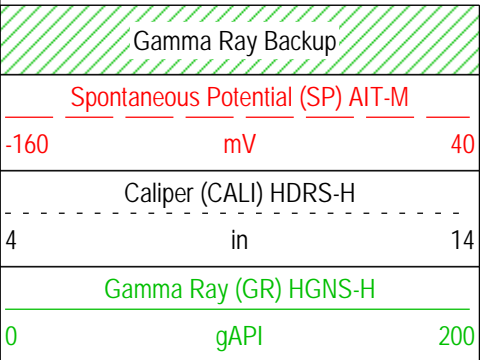
Calibrator Serial Number		7-39P LXS			
Calibration Cable Type		7-39P LXS			
Wheel Correction 1		-3			
Wheel Correction 2		-2			
Tension Device					
Type		CMTD-B/A			
Serial Number		1109			
Calibration Date		18-Nov-2014			
Calibrator Serial Number		441345A			
Number of Calibration Points		10			
Calibration Root Mean Square Error		36			
Calibration Peak Error		69			
Logging Cable					
Type		7-39P-LXS			
Serial Number					
Length		17000.00 ft			
Conveyance Type		Wireline			
Rig Type		Land			
Run 1:Depth Control Parameters				Depth Control Remarks	
Log Sequence		First Log In the Well		All Schlumberger depth control procedures followed	
Rig Up Length At Surface				IDWused for primary depth control	
Rig Up Length At Bottom				Z-Cart used for secondary depth control	
Rig Up Length Correction					
Stretch Correction					
Tool Zero Check At Surface					
Run 1					
2" Induction					
Integration Summary					
Output Channel(s)		Output Description		Input Parameter	
ICV		Integrated Cement Volume		GCSE_UP_PASS, FCD	
				234.99	
				ft3	
Software Version					
Acquisition System				Version	
MaxWell				4.0.9163.3000	
Application Patch				Patch-SP-10767_26570-4.0.9163.3001	
Computation		Description			Version
Borehole		Borehole Ensemble provides common Borehole Parameters and Channels			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
AMIS		Array Induction Sonde - M		4.0.9535.3000	1
Pass Summary					
Run Name	Pass Objective	Direction	Top	Bottom	Start
Run 1	Log[3]:Up	Up	49.15 ft	2793.83 ft	19-Nov-2014 1:04:56 AM
					19-Nov-2014 1:54:13 AM
All depths are referenced to toolstring zero					
Log	Company:Omimex Petroleum Inc Well:Kennedy State 11 36 7 45				
	Run 1: Log[3]:Up:S002				
Description: AIT Basic Log Two Format: Log (Import of Kerr McGee 2in Induction) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured					
Depth Creation Date: 19-Nov-2014 02:15:40					
Channel	Source	Sampling			

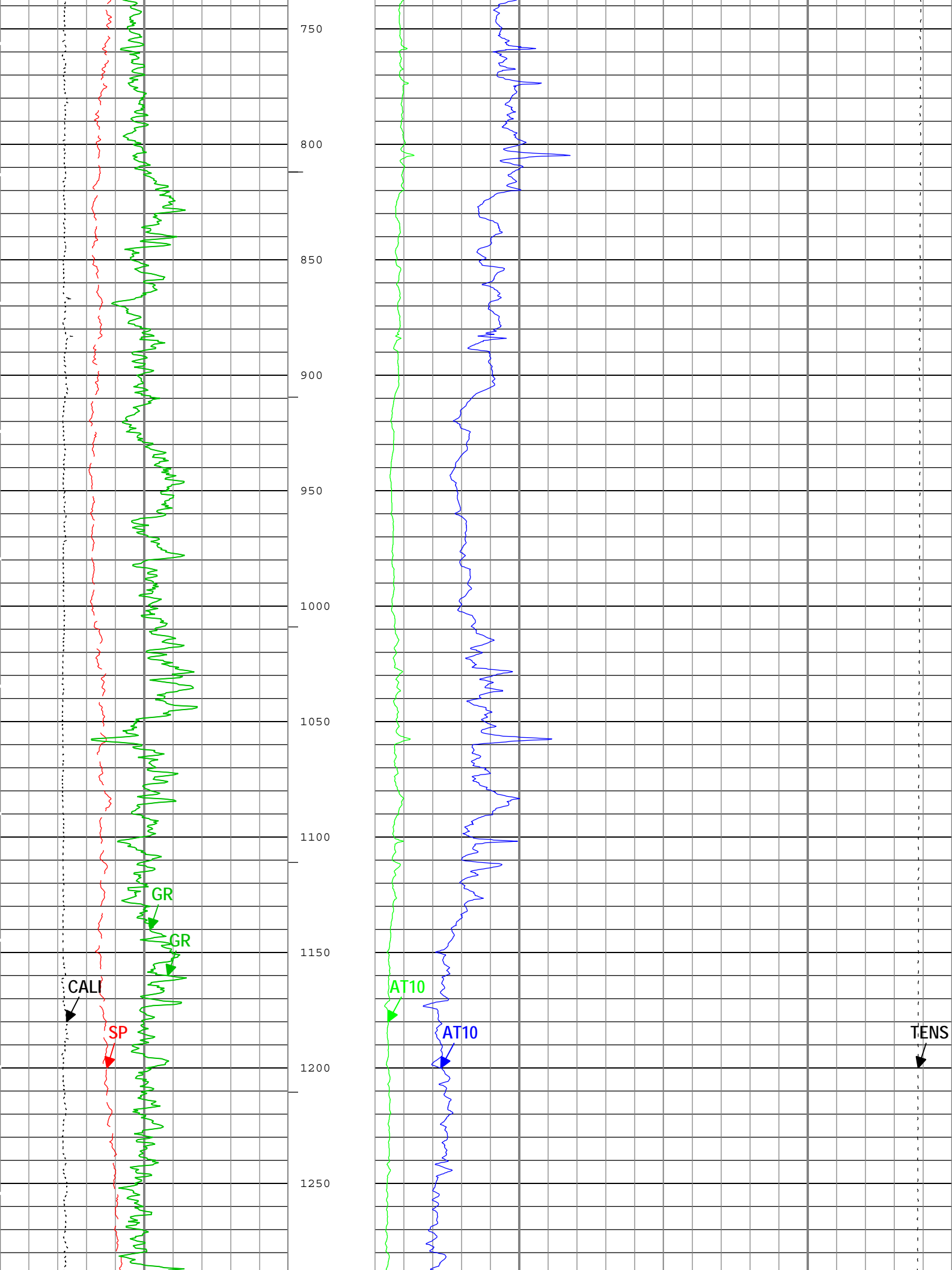
Channel	Source	Sampling
AT10	AIT-M:AMIS:AMIS	3in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR	HGNS-H:HGNS-H:HGNS-H	6in
ICV	Borehole	6in
SP	AIT-M:AMIS:AMIS	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

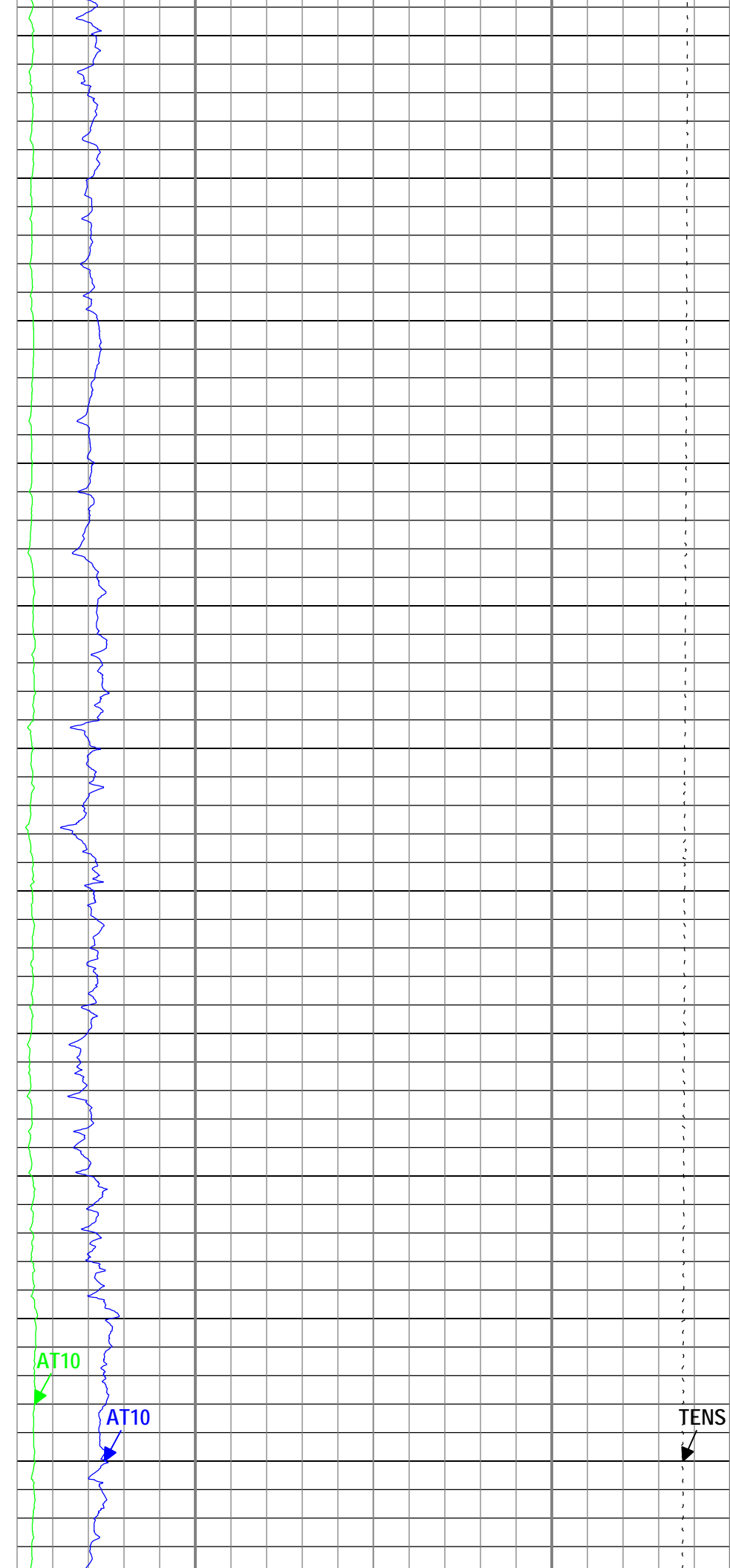
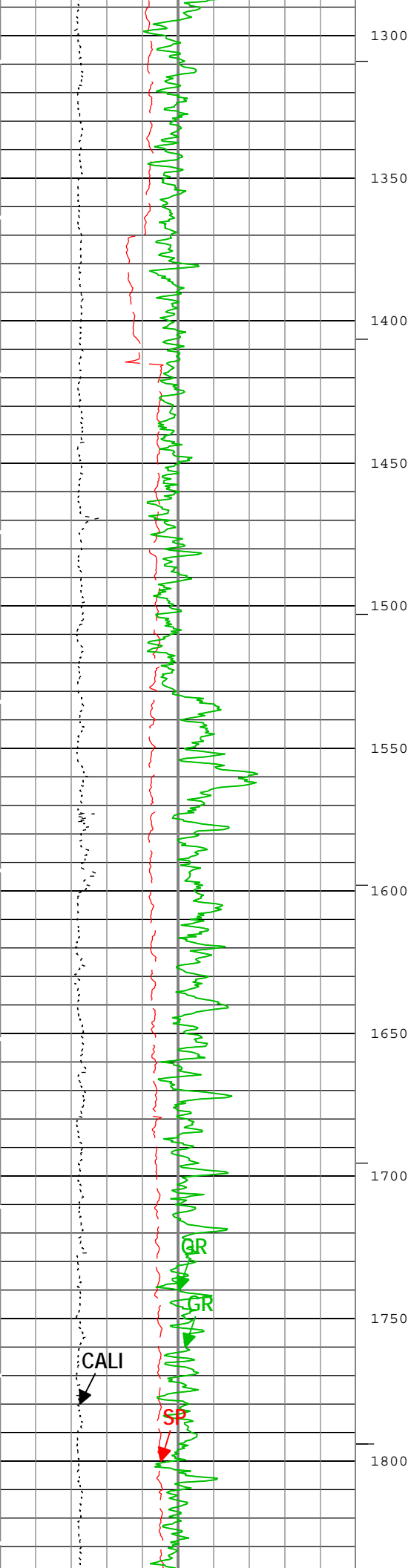
TIME_1900 - Time Marked every 60.00 (s)

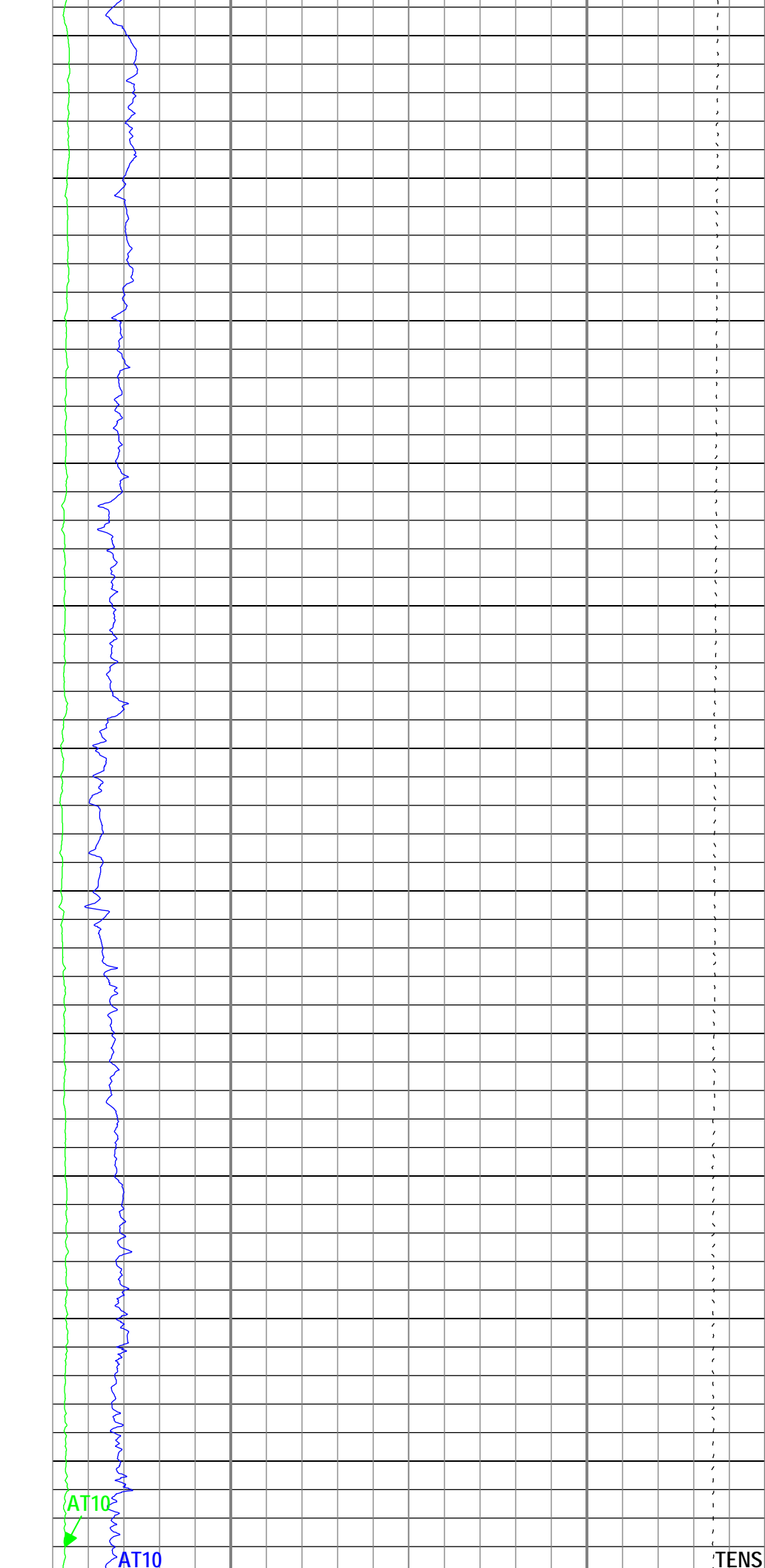
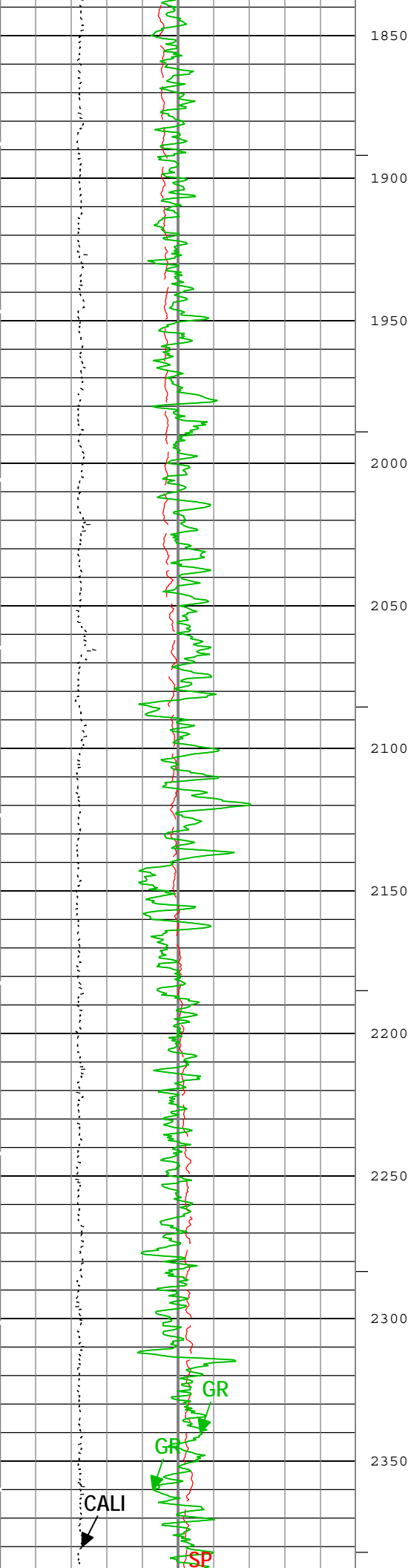
ICV - Integrated Cement Volume every 10.00 (ft3)

ICV - Integrated Cement Volume every 100.00 (ft3)

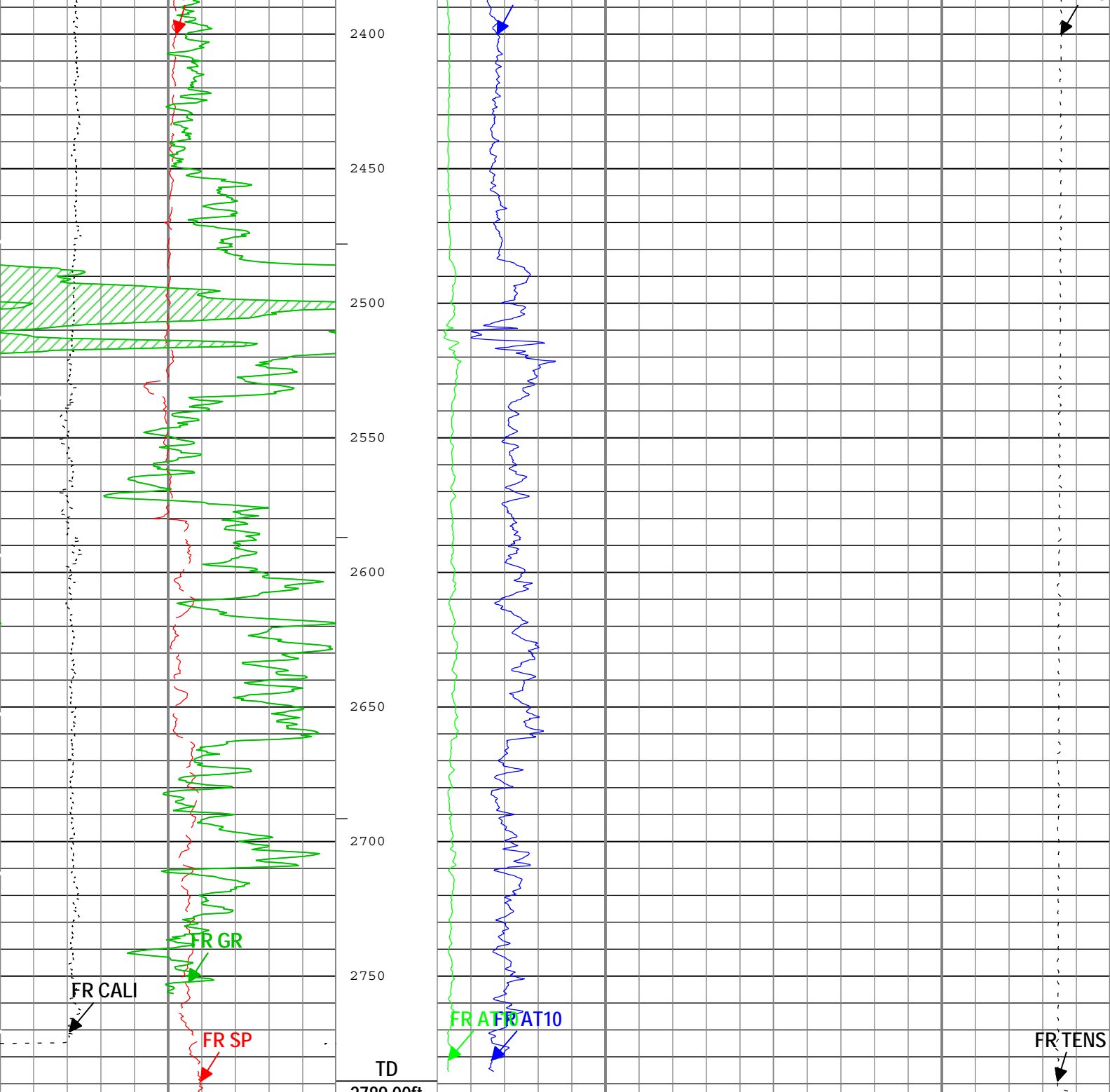








TENS



Gamma Ray Backup		
Spontaneous Potential (SP) AIT-M		
-160	mV	40
Caliper (CALI) HDRS-H		
4	in	14
Gamma Ray (GR) HGNS-H		
0	gAPI	200

Array Induction Two Foot Resistivity A10 (AT10) AIT-M		
0	ohm.m	10
Array Induction Two Foot Resistivity A10 (AT10) AIT-M		
0	ohm.m	50

Cable Tension (TENS)	
10000	lbf
0	

ICV - Integrated Cement Volume every 100.00 (ft3)
ICV - Integrated Cement Volume every 10.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ACDE	Array Induction Casing Detection Enable	AIT-M	Yes	
ASTA	Array Induction Tool Standoff	AIT-M	0.12	in
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	in
CBLO	Casing Bottom (Logger)	WLSESSION	475.6	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	7	in
DFD	Drilling Fluid Density	Borehole	9.3	lbm/gal
FCD	Future Casing (Outer) Diameter	WLSESSION	4.5	in
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	
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft

Depth Zone Parameters			
Parameter	Value	Start (ft)	Stop (ft)
BS	9.875	400	478
BS	6.25	478	2792
All depth are actual.			

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

Run 1				
5" Induction				

Integration Summary				
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	234.99	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS	490.74	ft3

Software Version	
Acquisition System	
Version	
MaxWell	4.0.9163.3000
Application Patch	Patch-SP-10767_26570-4.0.9163.3001

Computation	Description		Version
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels		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
AMIS	Array Induction Sonde - M	4.0.9535.3000	1

Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Log[3]L-Up	Up	49.15 ft	2793.83 ft	19-Nov-2014	19-Nov-2014	ON	0.48 ft	No

Run 1	Log[3]:Op	Op	49.15 ft	2795.83 ft	19-Nov-2014 1:04:56 AM	19-Nov-2014 1:54:13 AM	ON	0.48 ft	NO
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All depths are referenced to toolstring zero

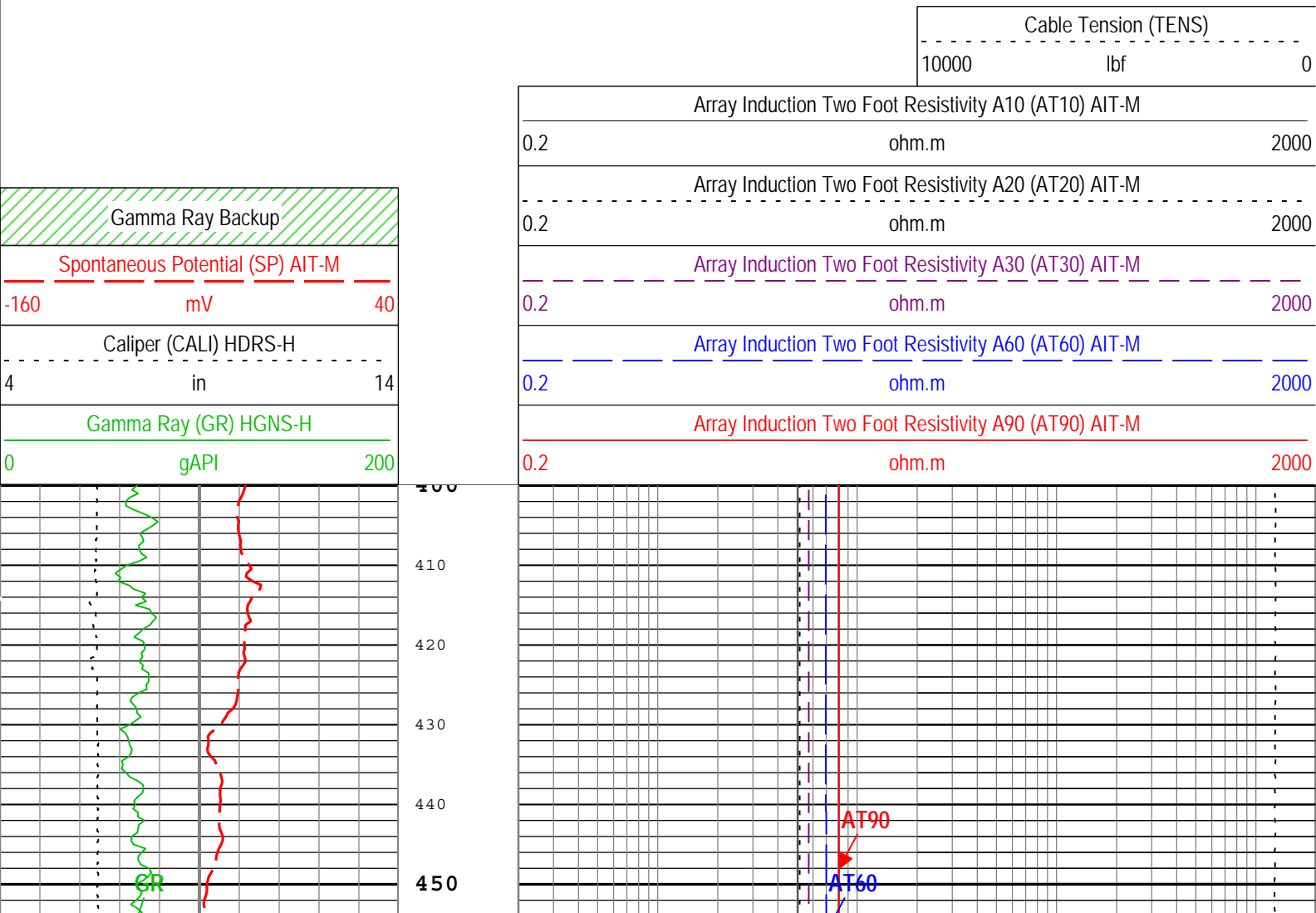
Log	Company:Omimex Petroleum Inc	Well:Kennedy State 11 36 7 45
		Run 1: Log[3]:Up:S002

Description: AIT Basic Log Two Format: Log (EMD 5in Induction) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Nov-2014 02:15:41

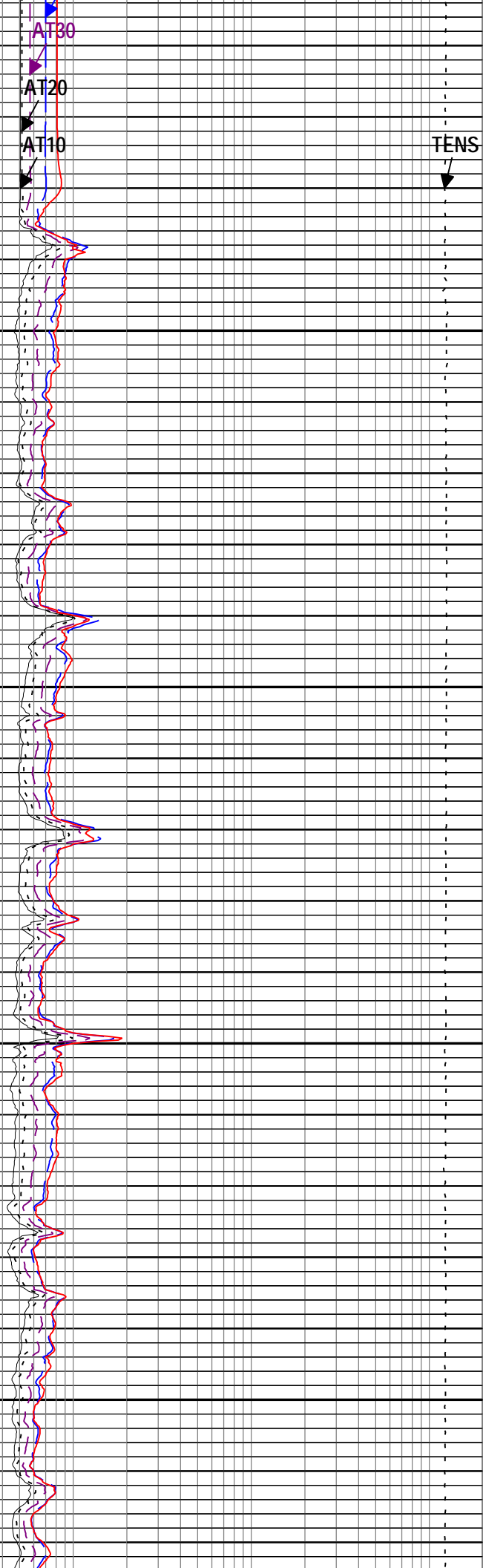
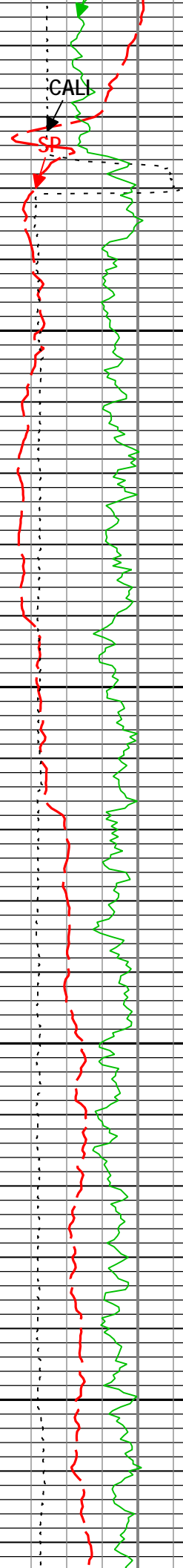
Channel	Source	Sampling
AT10	AIT-M:AMIS:AMIS	3in
AT20	AIT-M:AMIS:AMIS	3in
AT30	AIT-M:AMIS:AMIS	3in
AT60	AIT-M:AMIS:AMIS	3in
AT90	AIT-M:AMIS:AMIS	3in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR	HGNS-H:HGNS-H:HGNS-H	6in
ICV	Borehole	6in
IHV	Borehole	6in
SP	AIT-M:AMIS:AMIS	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

—|IHV - Integrated Hole Volume every 10.00 (ft3)
—|IHV - Integrated Hole Volume every 100.00 (ft3)
—|ICV - Integrated Cement Volume every 10.00 (ft3)
—|ICV - Integrated Cement Volume every 100.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)



460
470
480
490
500
510
520
530
540
550
560
570
580
590
600
610
620
630
640
650
660
670



CALI

CP

SP

680

690

700

710

720

730

740

750

760

770

780

790

800

810

820

830

840

850

860

870

880

890

AT90

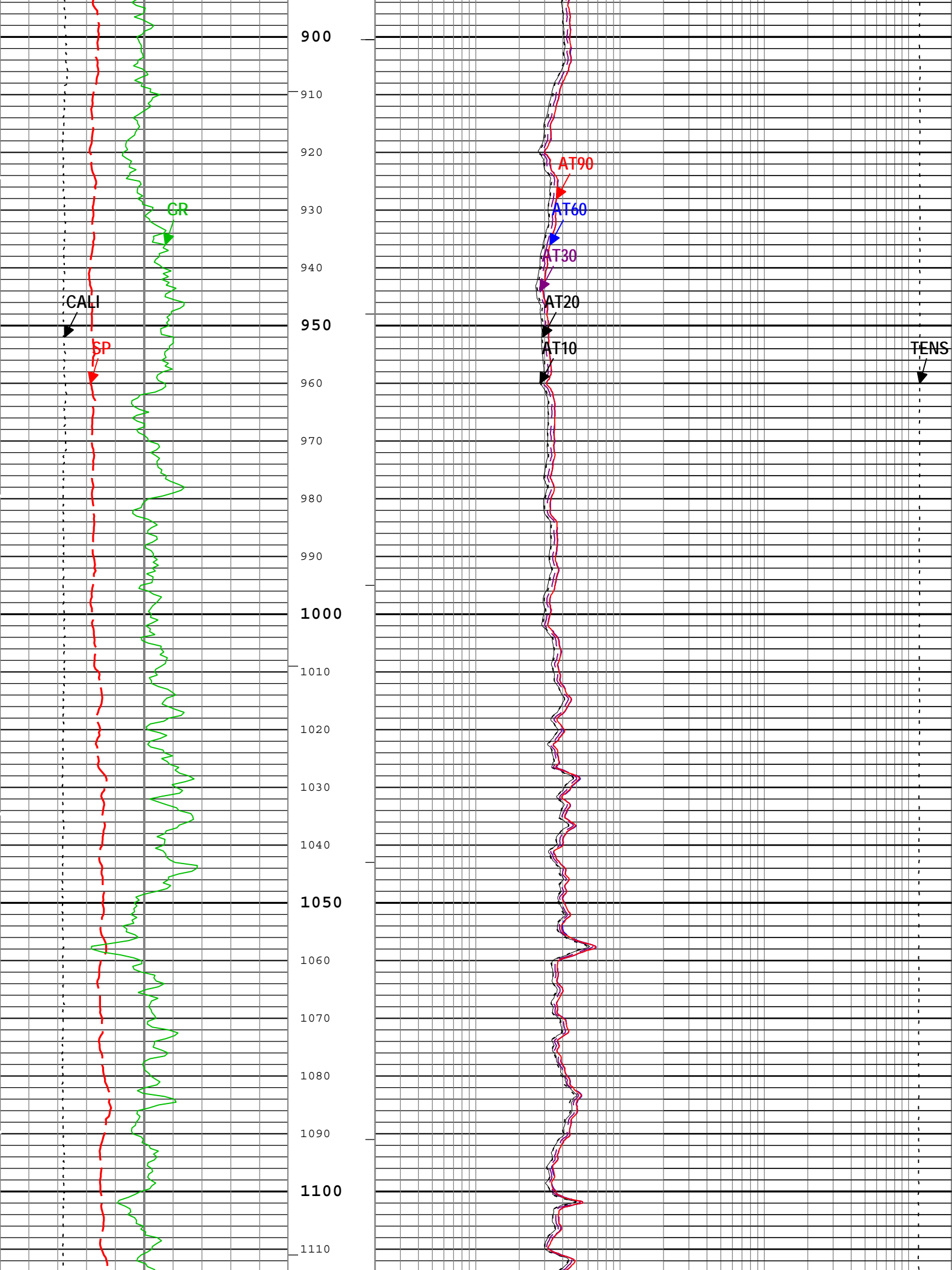
AT60

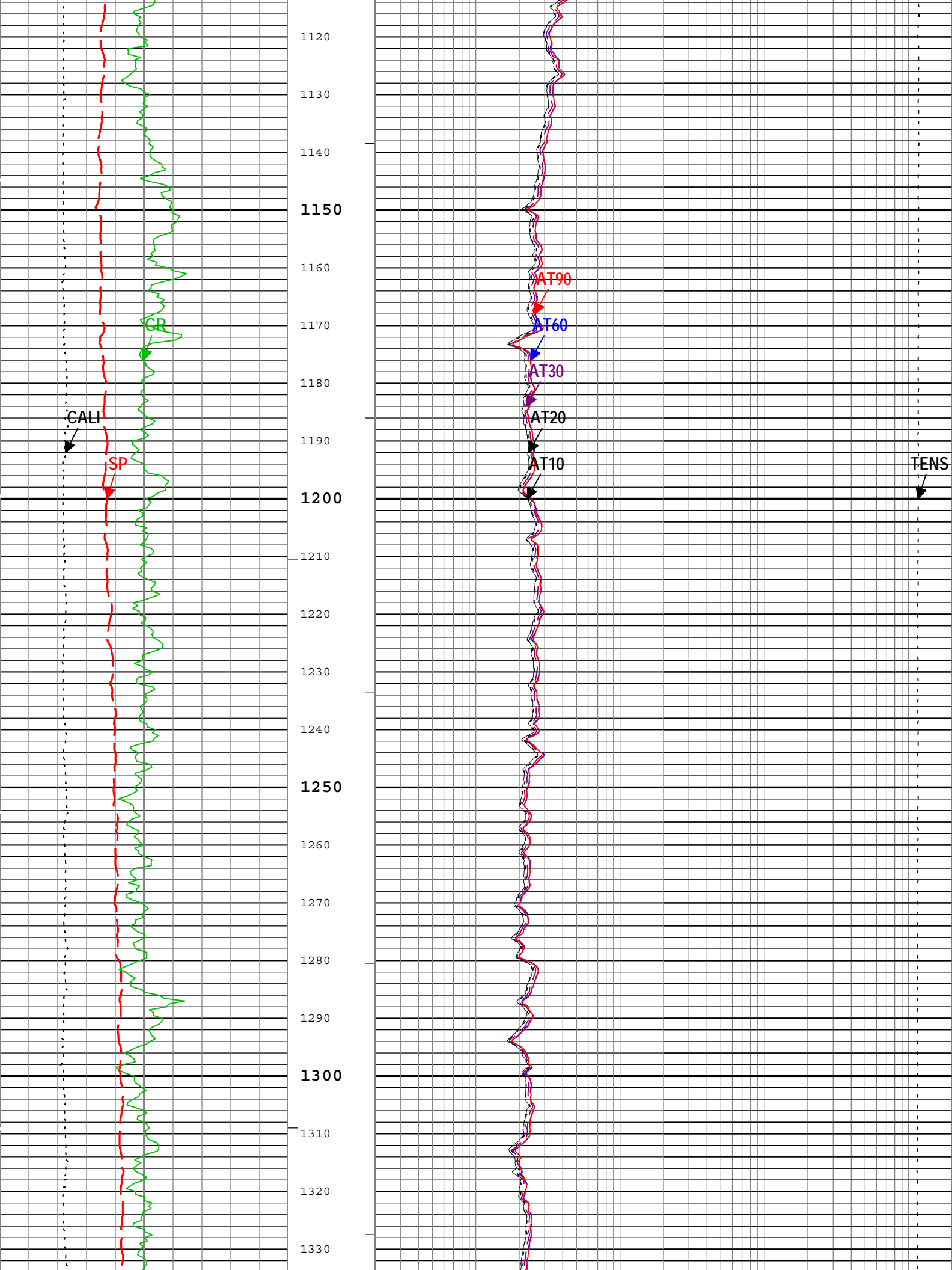
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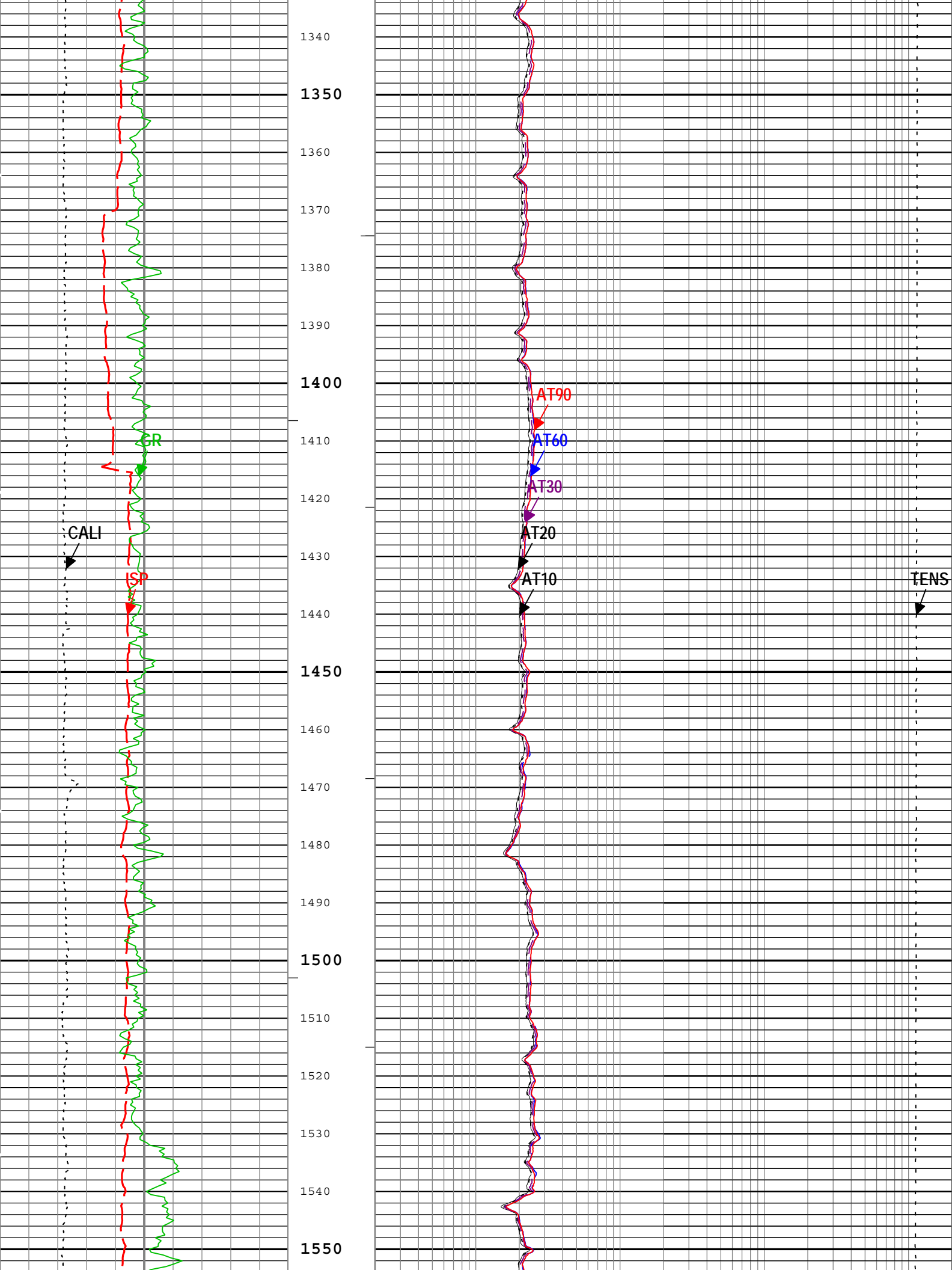
AT20

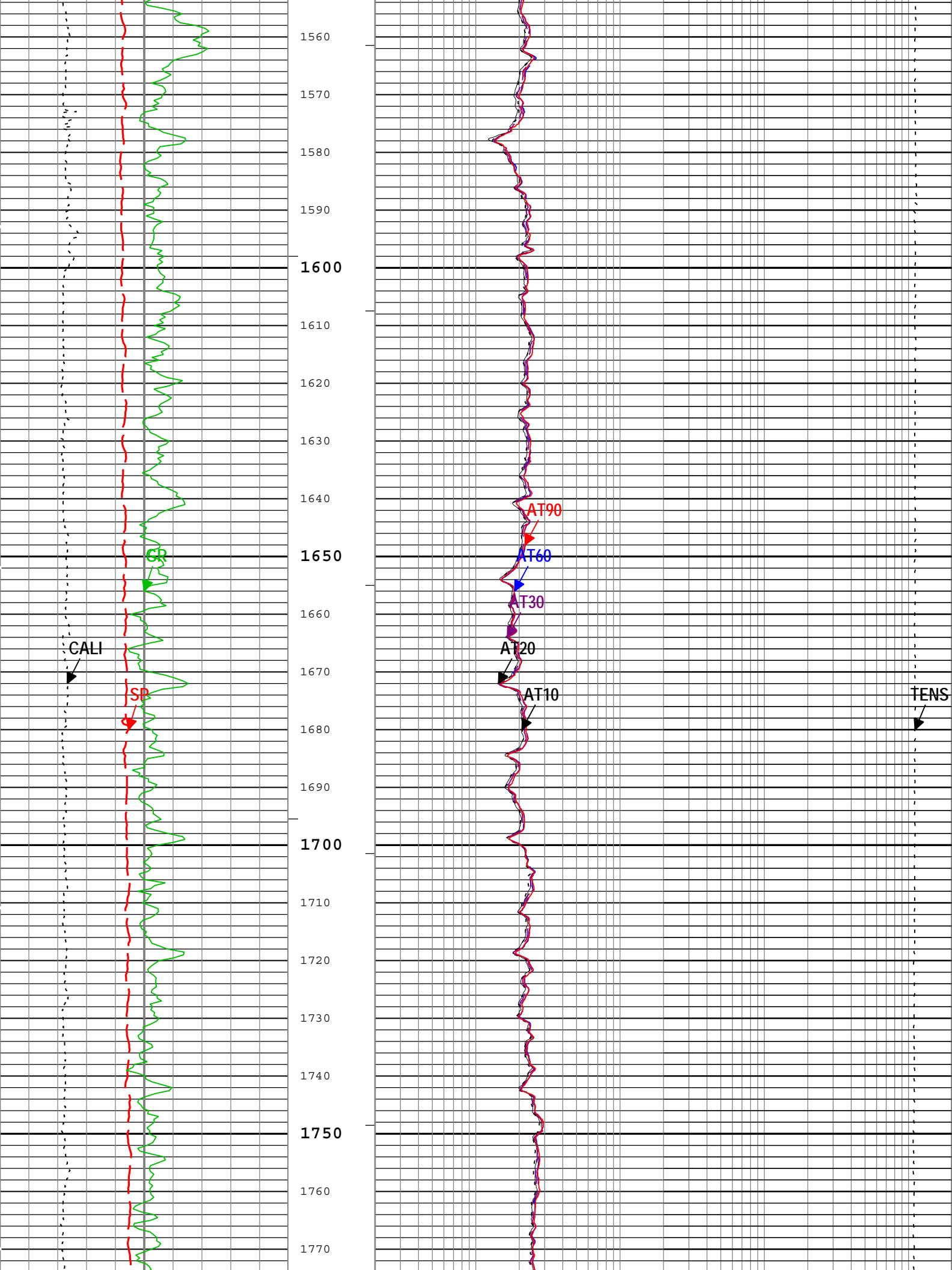
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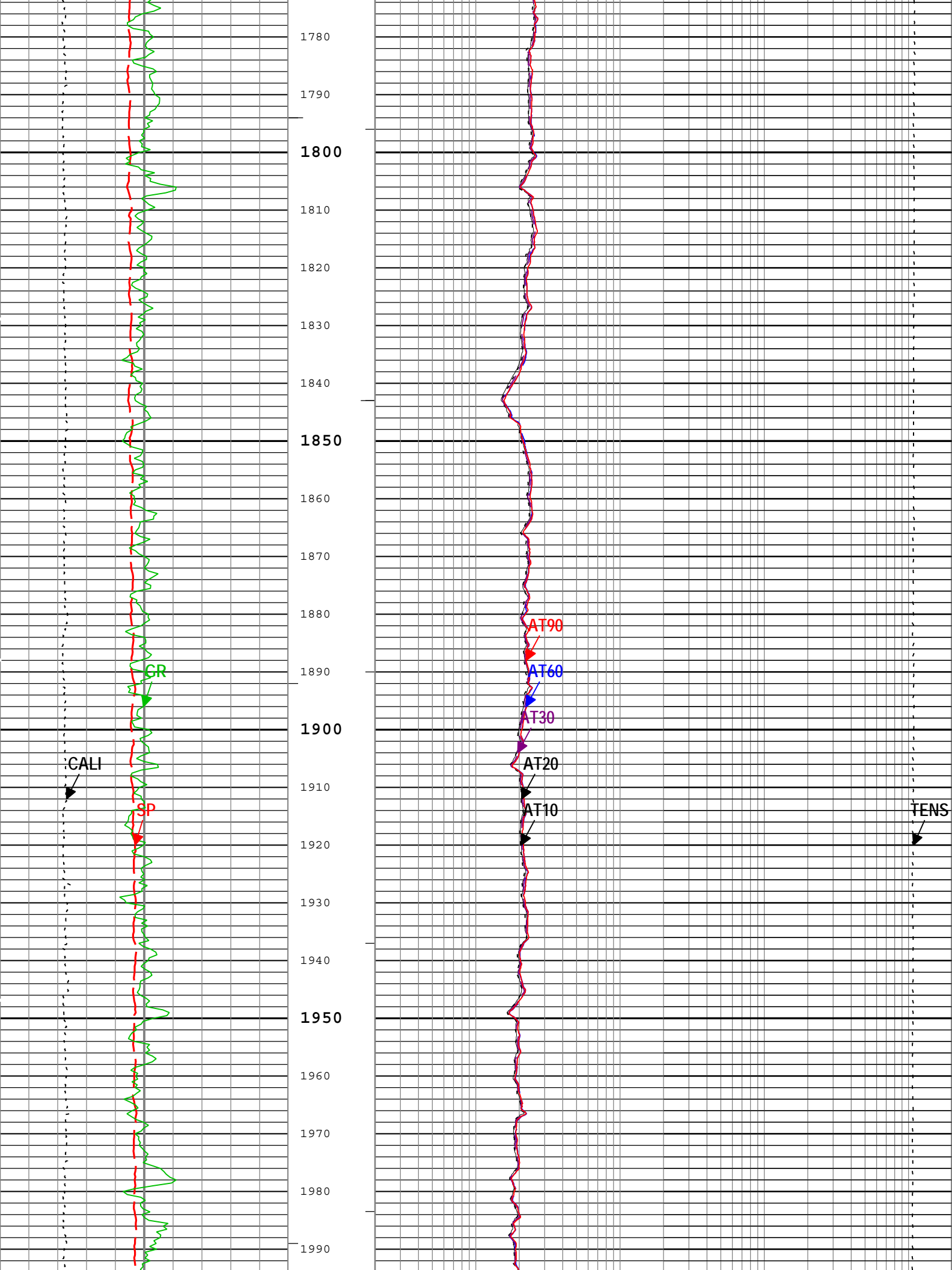
TENS

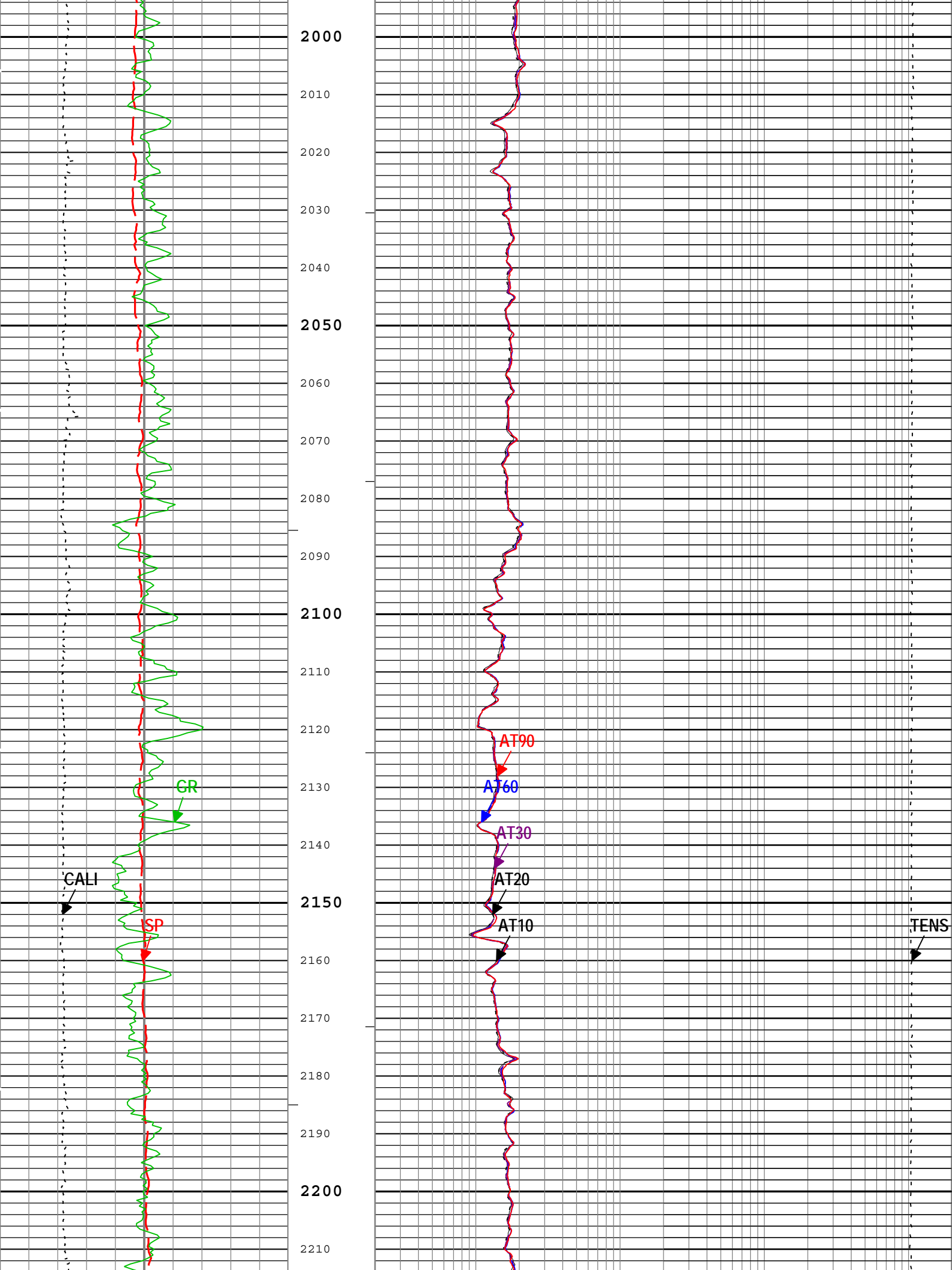


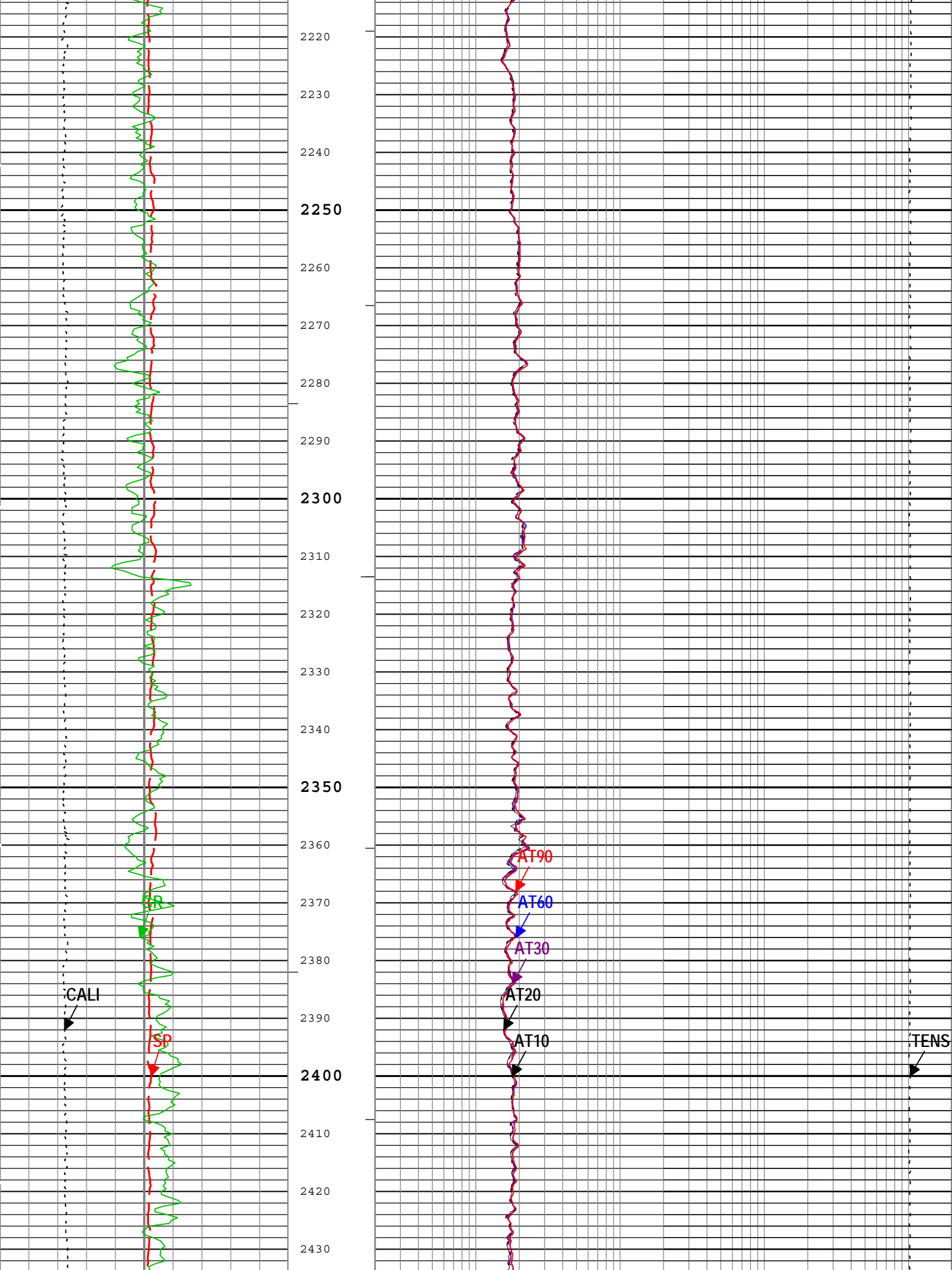


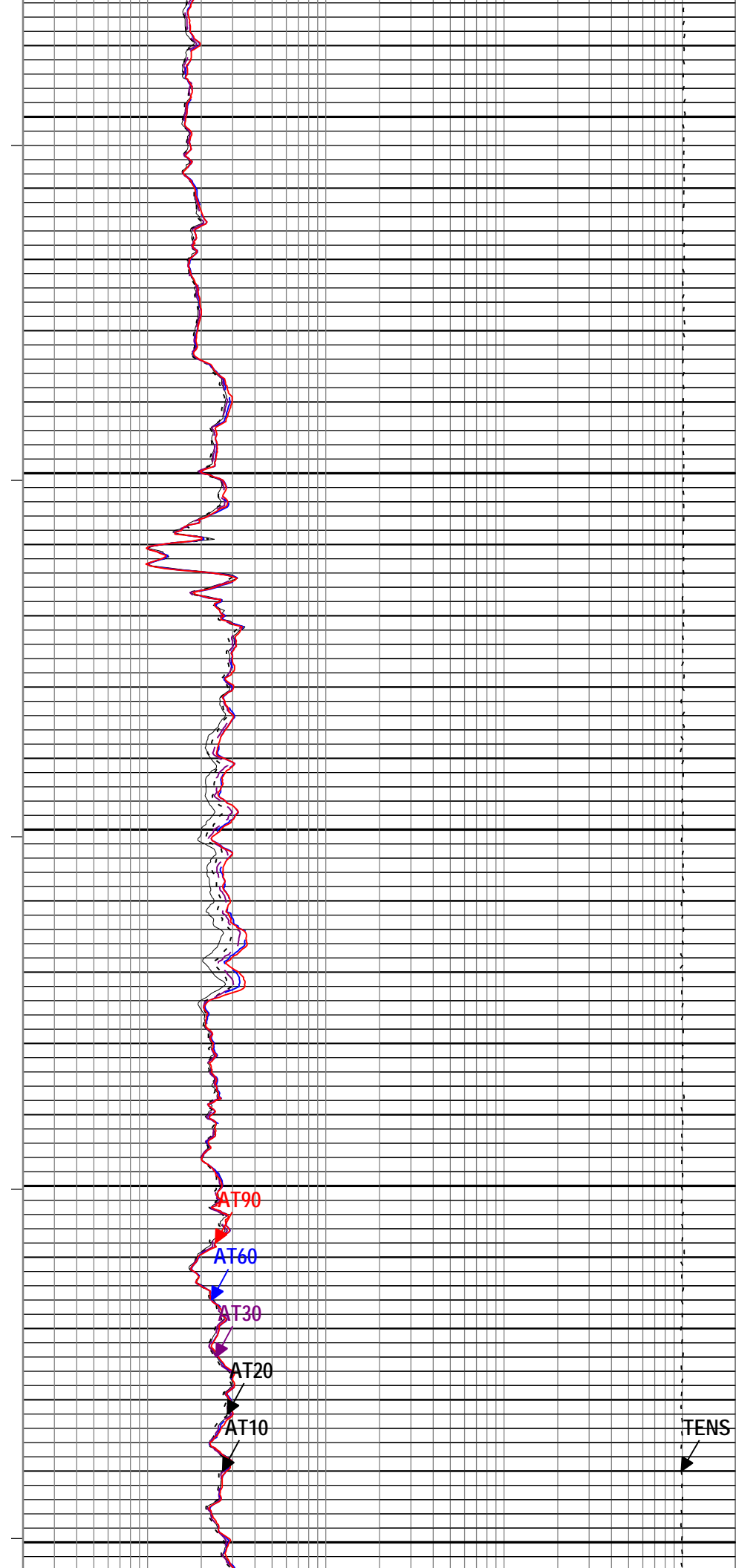
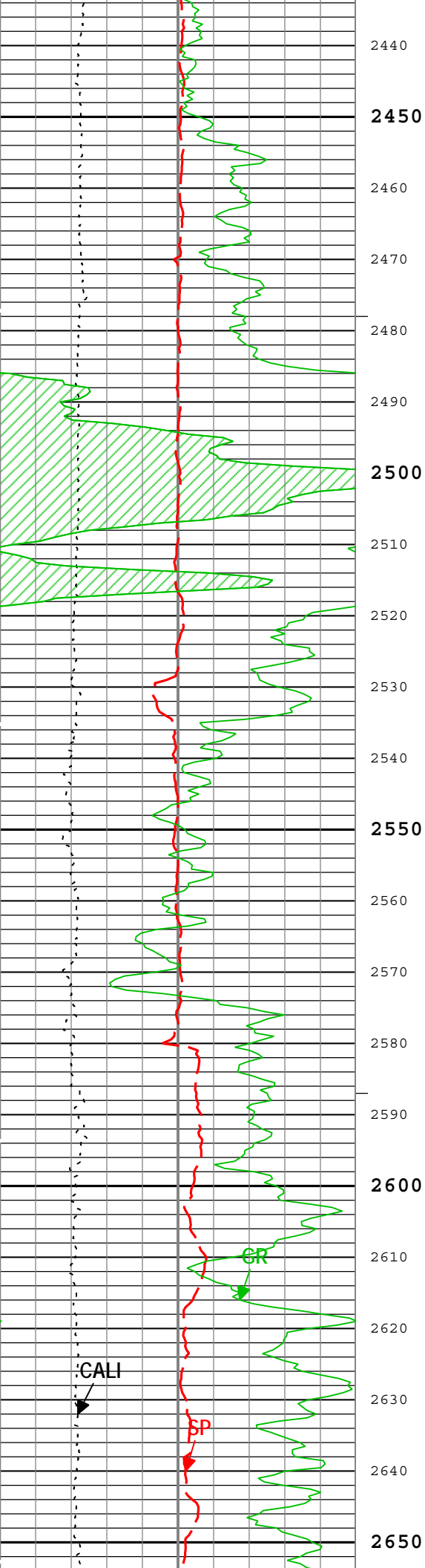


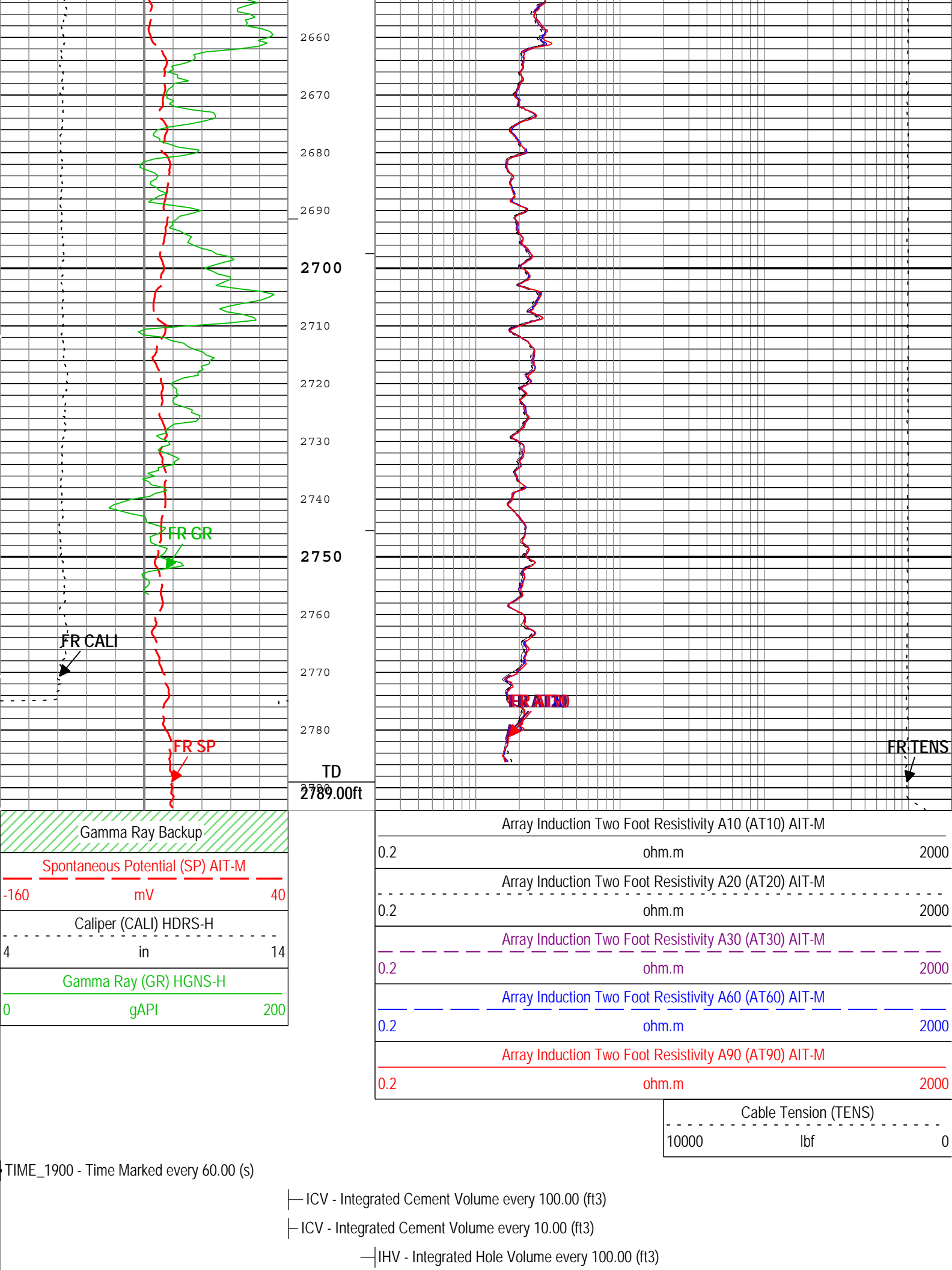












—IHV - Integrated Hole Volume every 10.00 (ft3)

Description: AIT Basic Log Two	Format: Log (EMD 5in Induction)	Index Scale: 5 in per 100 ft	Index Unit: ft	Index Type: Measured Depth	Creation Date: 19-Nov-2014 02:15:41
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Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Standoff	
ACDE	Array Induction Casing Detection Enable	AIT-M	Yes	
ASTA	Array Induction Tool Standoff	AIT-M	0.12	in
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	in
CBLO	Casing Bottom (Logger)	WLSESSION	475.6	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	7	in
DFD	Drilling Fluid Density	Borehole	9.3	lbm/gal
FCD	Future Casing (Outer) Diameter	WLSESSION	4.5	in
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	
SPDR	SP Drift Per Foot	AIT-M	0	mV/ft

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	9.875	400	478
BS	6.25	478	2792

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

Run 1

5" Induction

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
Run 1	Log[2]:Up	Up	2382.91 ft	2793.62 ft	19-Nov-2014 12:51:13 AM	19-Nov-2014 1:00:47 AM	ON	0.48 ft	No
Run 1	Log[3]:Up	Up	49.15 ft	2793.83 ft	19-Nov-2014 1:04:56 AM	19-Nov-2014 1:54:13 AM	ON	0.48 ft	No

All depths are referenced to toolstring zero

Log

Company:Omimex Petroleum Inc Well:Kennedy State 11 36 7 45

Run 1: Log[2]:Up:S002

Description: AIT Basic Log Two Format: EMD 5in Induction RA Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Nov-2014 02:15:43

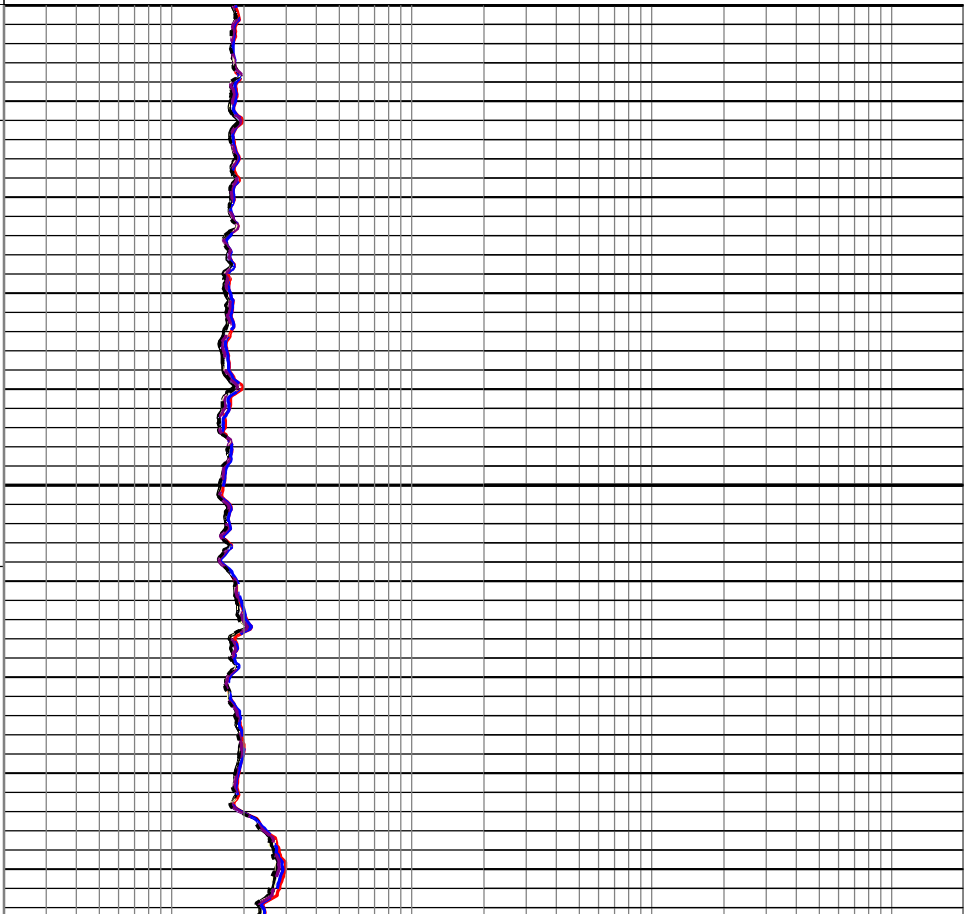
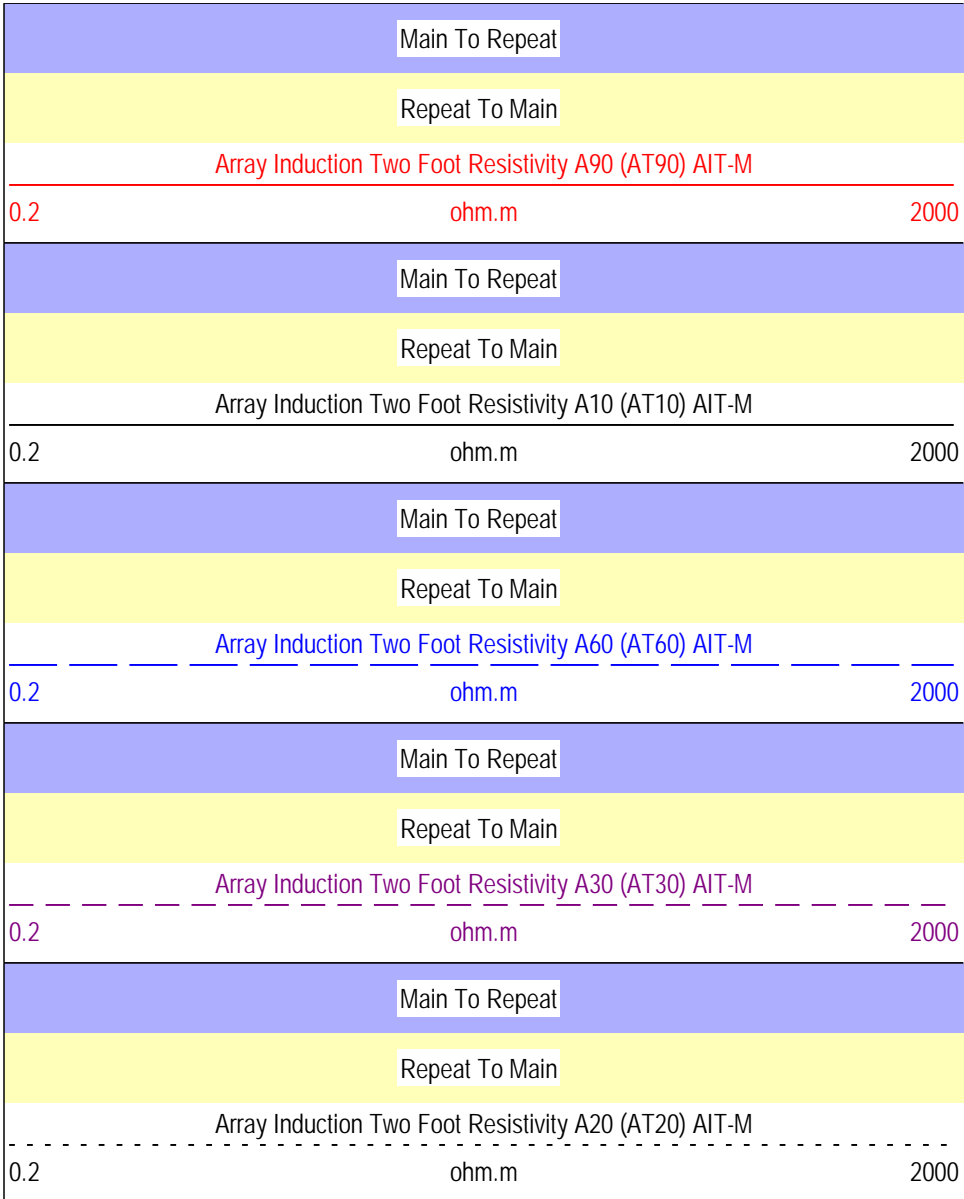
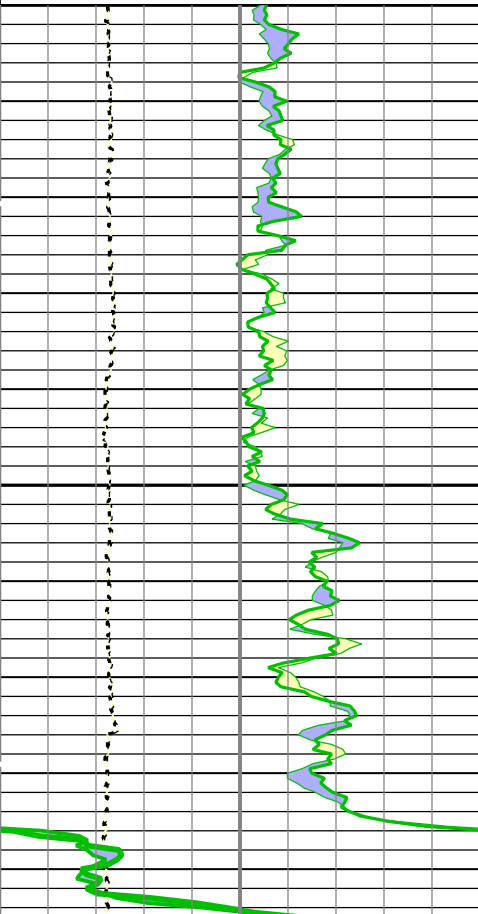
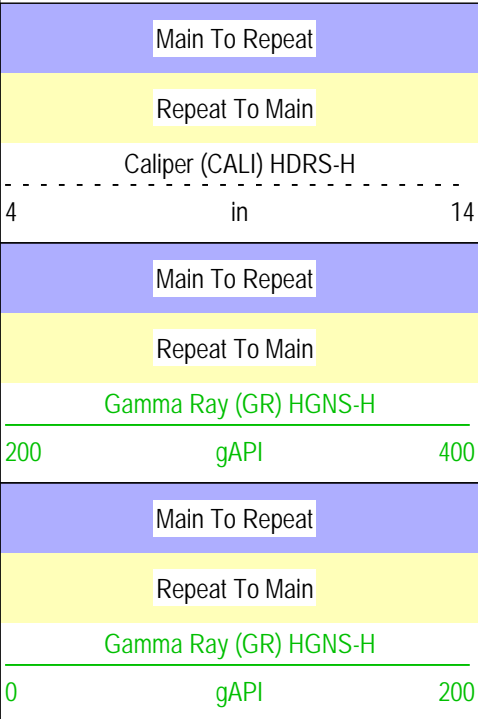
—IHV - Integrated Hole Volume every 10.00 (ft3)

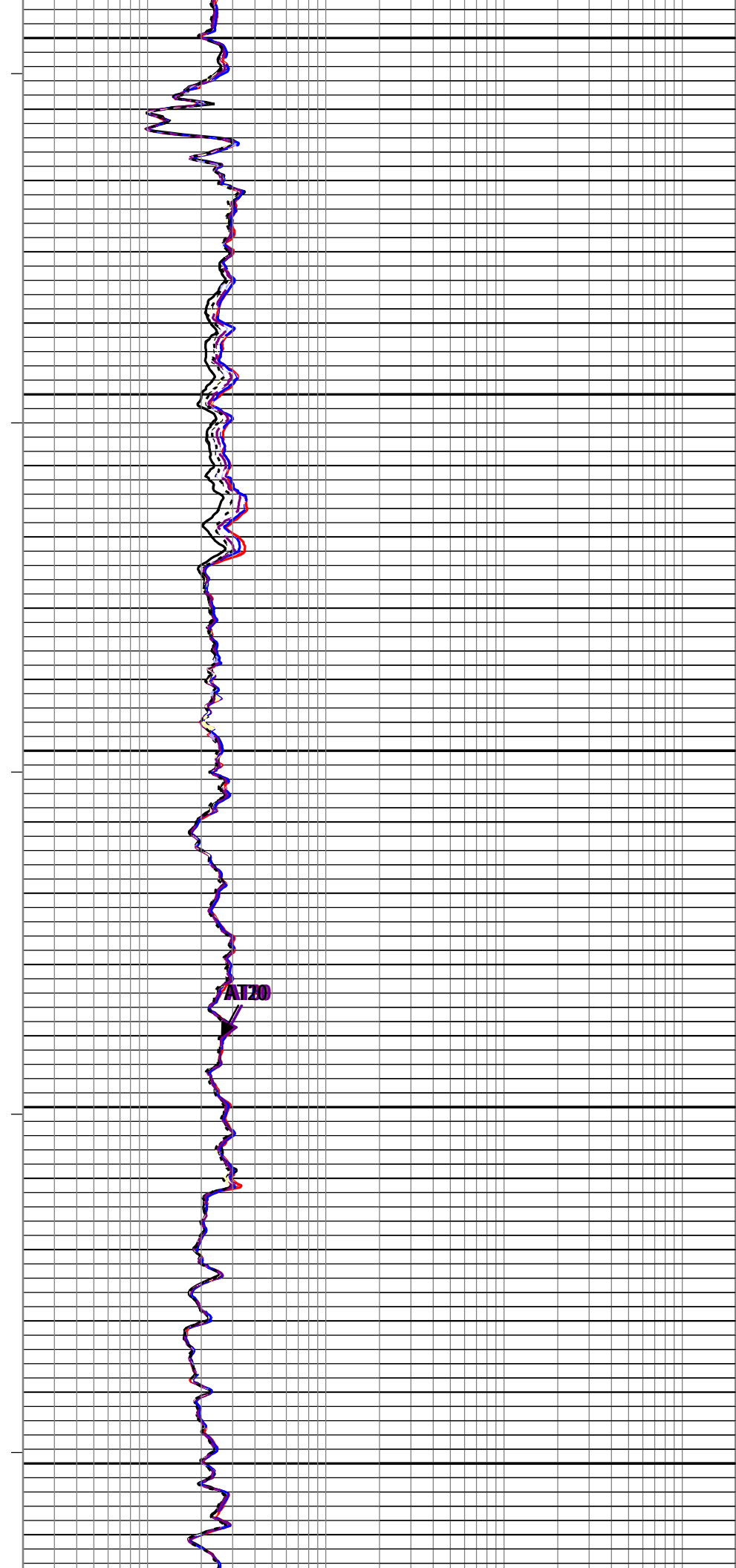
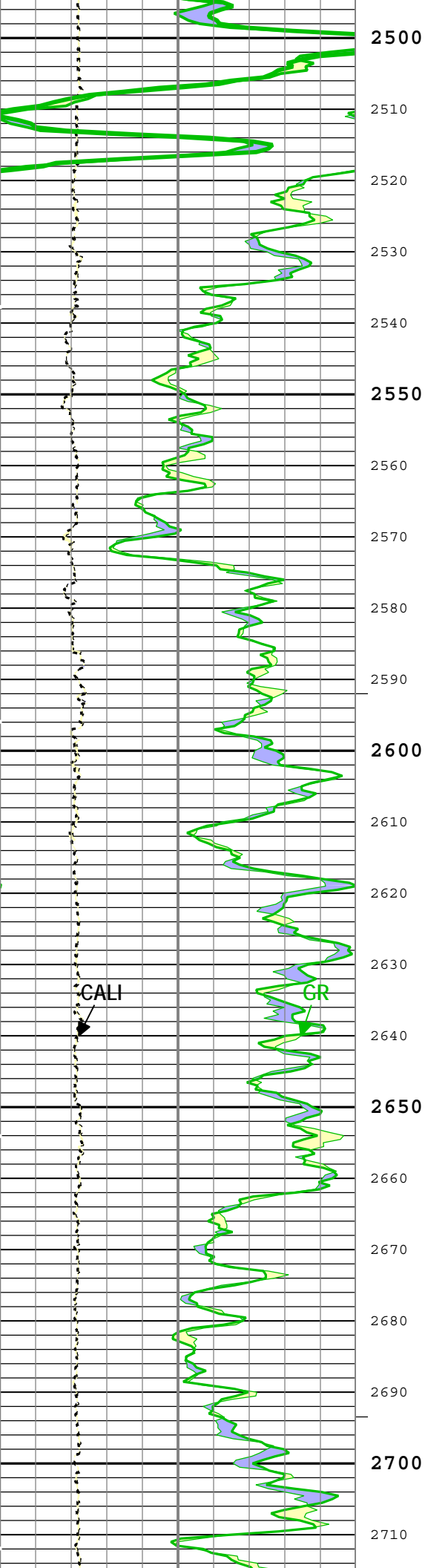
—IHV - Integrated Hole Volume every 100.00 (ft3)

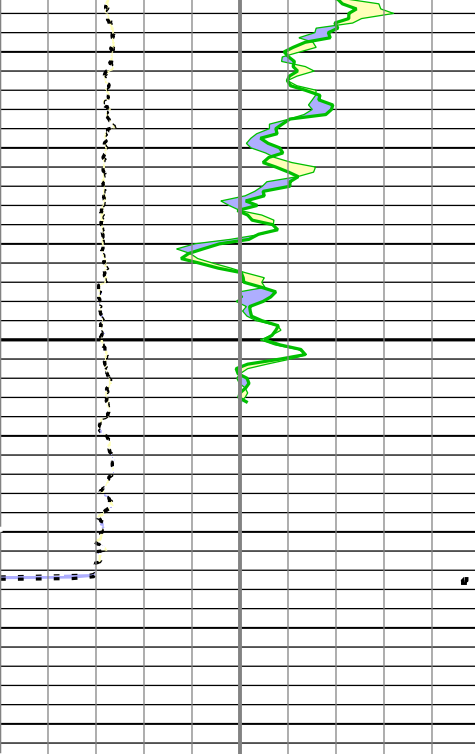
TIME_1900 - Time Marked every 60.00 (s)

—ICV - Integrated Cement Volume every 10.00 (ft3)

— ICV - Integrated Cement Volume every 100.00 (ft3)

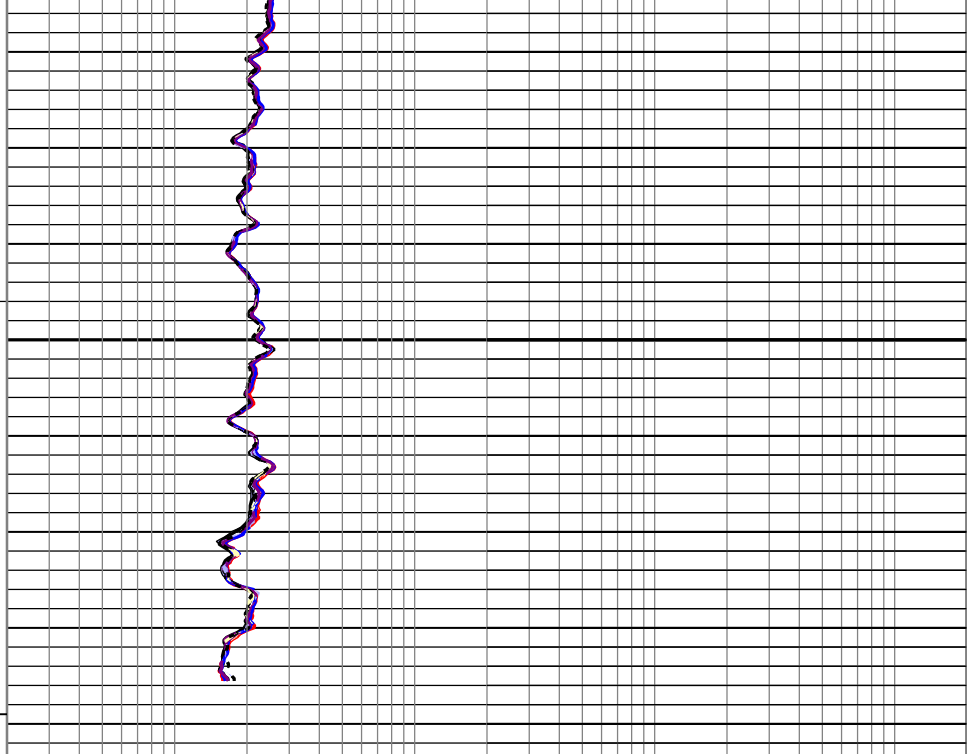






2720
2730
2740
2750
2760
2770
2780
TD
2789.00ft

Main To Repeat		
Repeat To Main		
Caliper (CALI) HDRS-H		
4	in	14
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		
Array Induction Two Foot Resistivity A90 (AT90) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A10 (AT10) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A60 (AT60) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A30 (AT30) AIT-M		
0.2	ohm.m	2000
Main To Repeat		
Repeat To Main		
Array Induction Two Foot Resistivity A20 (AT20) AIT-M		
0.2	ohm.m	2000

— ICV - Integrated Cement Volume every 100.00 (ft3)

— ICV - Integrated Cement Volume every 10.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

Description: AIT Basic Log Two Format: EMD 5in Induction RA Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Nov-2014 02:15:43

Calibration Report

AIT-M (Array Induction Tool - M) Calibration - Run 1

Primary Equipment :			File code for AIT-MA Sonde Tool Element	AMIS	50
Auxiliary Equipment :			File code for AIT Bottom Nose Tool Element	AMRM	50

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM): 12:18:07 04-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.014	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	0.539	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.014	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.663	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.022	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	0.148	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.014	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	0.172	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.996	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	0.160	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.987	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.133	3.000	
Test Loop Gain - 6		Master	1.000	0.950	0.998	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.192	3.000	
Test Loop Gain - 7		Master	1.000	0.950	1.007	1.050	
Test Loop Phase - 7	deg	Master	0	-3.000	-0.097	3.000	

AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM): 12:18:07 04-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-109.513	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	-462.503	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	159.810	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	-127.134	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	114.073	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	102.792	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	68.619	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	-156.455	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	24.694	35.000	
Sonde Error Correction Quad - 4		Master	-----	-63.000	3.677	63.000	
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	15.085	24.000	
Sonde Error Correction Quad - 5		Master	-----	-50.000	-26.597	50.000	
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	10.310	15.000	
Sonde Error Correction Quad - 6		Master	-----	-30.000	-5.646	30.000	
Sonde Error Correction Real - 7	mS/m	Master	-----	-5.000	-1.623	5.000	
Sonde Error Correction Quad - 7		Master	-----	-30.000	-4.661	30.000	

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM): 12:18:07 04-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.831	1.200	
Fine Gain		Master	1.000	0.800	0.833	1.200	

AIT Electronics Check - Thru Calibration Check

Master (EEPROM): 12:18:07 04-Sep-2014 Before (Measured): 13:29:13 18-Nov-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	-----	0.366	0.603	0.854	
		Before	-----	0.366	0.603	0.854	
		Before-Master	-----	-----	0.000	-----	
Thru Cal Phase - 0	deg	Master	-----	137.000	-165.073	-103.000	

		Before		137.000	-164.117	-103.000	
		Before-Master	----	----	0.956	----	
Thru Cal Mag - 1	V	Master	----	0.762	1.237	1.778	
		Before	----	0.762	1.236	1.778	
		Before-Master	----	----	-0.001	----	
Thru Cal Phase - 1	deg	Master	----	136.000	-166.020	-104.000	
		Before	----	136.000	-165.062	-104.000	
		Before-Master	----	----	0.958	----	
Thru Cal Mag - 2	V	Master	----	0.372	0.613	0.868	
		Before	----	0.372	0.613	0.868	
		Before-Master	----	----	0.000	----	
Thru Cal Phase - 2	deg	Master	----	132.000	-169.506	-108.000	
		Before	----	132.000	-168.553	-108.000	
		Before-Master	----	----	0.953	----	
Thru Cal Mag - 3	V	Master	----	0.420	0.691	0.980	
		Before	----	0.420	0.691	0.980	
		Before-Master	----	----	0.000	----	
Thru Cal Phase - 3	deg	Master	----	131.000	-170.241	-109.000	
		Before	----	131.000	-169.288	-109.000	
		Before-Master	----	----	0.953	----	
Thru Cal Mag - 4	V	Master	----	0.804	1.297	1.876	
		Before	----	0.804	1.296	1.876	
		Before-Master	----	----	-0.001	----	
Thru Cal Phase - 4	deg	Master	----	125.000	-176.203	-115.000	
		Before	----	125.000	-175.244	-115.000	
		Before-Master	----	----	0.959	----	
Thru Cal Mag - 5	V	Master	----	1.176	1.887	2.744	
		Before	----	1.176	1.886	2.744	
		Before-Master	----	----	-0.001	----	
Thru Cal Phase - 5	deg	Master	----	122.000	-177.732	-118.000	
		Before	----	122.000	-176.767	-118.000	
		Before-Master	----	----	0.965	----	
Thru Cal Mag - 6	V	Master	----	1.176	1.886	2.744	
		Before	----	1.176	1.885	2.744	
		Before-Master	----	----	-0.001	----	
Thru Cal Phase - 6	deg	Master	----	121.000	-177.711	-119.000	
		Before	----	121.000	-176.745	-119.000	
		Before-Master	----	----	0.966	----	
Thru Cal Mag - 7	V	Master	----	0.846	1.357	1.974	
		Before	----	0.846	1.357	1.974	
		Before-Master	----	----	0.000	----	
Thru Cal Phase - 7	deg	Master	----	115.000	-178.471	-125.000	
		Before	----	115.000	-177.485	-125.000	
		Before-Master	----	----	0.986	----	
SPA Zero	mV	Master		-50.000	0.156	50.000	
		Before		-50.000	0.132	50.000	
		Before-Master	----	----	-0.024	----	
SPA Plus	mV	Master		941.000	987.998	1040.000	
		Before		941.000	987.881	1040.000	
		Before-Master	----	----	-0.117	----	
Temperature Zero	V	Master		-0.050	0.000	0.050	
		Before		-0.050	0.000	0.050	
		Before-Master	----	----	0.000	----	
Temperature Plus	V	Master		0.870	0.915	0.960	
		Before		0.870	0.915	0.960	
		Before-Master	----	----	0.000	----	

HDRS-H (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1			
Primary Equipment :			
HILT High-Resolution Control Cartridge, 150 degC		HRCC-H	3828
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
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	3828
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): 13:36:07 18-Nov-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	7.61	10.00	
Large Ring	in	Before	12.00	9.00	11.81	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 15:21:00 21-Oct-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.594	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.689	1.696	
Pe Aluminum		Master	2.570	2.470	2.582	2.670	
Pe Magnesium		Master	2.650	2.550	2.589	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 15:21:00 21-Oct-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.3325	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.9257	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.3008	1.0000	
SS Max Deviation	%	Master	0	-2.5000	0.9629	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.9542	1.5000	
LS Max Deviation	%	Master	0	-3.5000	2.5936	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM): 15:21:00 21-Oct-2014 Before (Measured): 13:33:10 18-Nov-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7486		
		Before	0.7486	0.7111	0.7511	0.7860	
		Before-Master	-----	-----	0.0025	-----	
BS Window Sum	1/s	Master	1		23350		
		Before	23350	22183	23329	24518	
		Before-Master	-----	-----	-21	-----	
SS Window Ratio		Master	1.0000		0.4883		
		Before	0.4883	0.4639	0.4881	0.5127	
		Before-Master	-----	-----	-0.0002	-----	
SS Window Sum	1/s	Master	1		10931		
		Before	10931	10384	10905	11477	
		Before-Master	-----	-----	-26	-----	
LS Window Ratio		Master	1.0000		0.3000		
		Before	0.3000	0.2850	0.3019	0.3150	
		Before-Master	-----	-----	0.0019	-----	
LS Window Sum	1/s	Master	1		1194		
		Before	1194	1134	1190	1253	
		Before-Master	-----	-----	-4	-----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 15:21:00 21-Oct-2014 Before (Measured): 13:33:10 18-Nov-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1613	2400	
		Before		1000	1612	2400	
		Before-Master	-----	-100	-1	100	
SS PM High Voltage	V	Master		1000	1489	2400	
		Before		1000	1512	2400	
		Before-Master	-----	-100	23	100	
LS PM High Voltage	V	Master		1000	1276	2400	
		Before		1000	1290	2400	
		Before-Master	-----	-100	14	100	

HDRS Density Calibration - Crystal Quality Resolutions							
Master (EEPROM):		15:21:00 21-Oct-2014		Before (Measured):		13:33:10 18-Nov-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.77	25.00	
		Before		5.00	10.77	25.00	
		Before-Master	-----	-1.00	0.00	1.00	
SS Crystal Resolution	%	Master		5.00	9.68	20.00	
		Before		5.00	10.01	20.00	
		Before-Master	-----	-1.00	0.33	1.00	
LS Crystal Resolution	%	Master		5.00	8.06	20.00	
		Before		5.00	8.09	20.00	
		Before-Master	-----	-1.00	0.03	1.00	
HDRS MCFL Calibration - MCFL Accumulations							
Before (Measured):		13:34:56 18-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3874	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3813	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3820	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		3616	
AmBe Neutron Logging Source				NSR-F		5068	
Calibration Parameter :							
Water Temperature							
Housing Size							
JIG-BKG (Jig minus background reference)				165			
HGNS Accelerometer Calibration - Accelerometer Accumulations							
Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement - 0	ft/s2	Before	-----	-----	-----	-----	
HGNS Accelerometer EEPROM - Accelerometer EEPROM Read							
Master (Manual Entry):		00:00:00 15-Feb-2005					
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	-----	-----	-2323.000	-----	
Accelerometer Coefficients - 1		Master	-----	-----	2.895	-----	
Accelerometer Coefficients - 2		Master	-----	-----	0.001	-----	
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 4		Master	-----	-----	2.764	-----	
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 7		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 8		Master	-----	-----	298.500	-----	
Accelerometer Coefficients - 9		Master	-----	-----	1.009	-----	
HGNS Neutron Calibration - HGNS Neutron Accumulations							
Master (Manual Entry):		11:12:08 15-Sep-2014		Before (Measured):		13:29:08 18-Nov-2014	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement - 0	1/s	Master	-----	-----	-----	-----	
		Before	0	5.0	28.1	40.0	
		Before-Master	-----	-----	-----	-----	
Far Zero Measurement - 0	1/s	Master	-----	-----	-----	-----	
		Before	0	5.0	27.3	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 Before Before-Master	----- ----- -----	4700.0 ----- -----	5351.0 ----- -----	6900.0 ----- -----	
Far Corrected Plus Measurement	1/s	Master Before Before-Master	----- ----- -----	1900.0 ----- -----	2289.0 ----- -----	2900.0 ----- -----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations							
Before (Measured):		13:41:46 18-Nov-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	81.0	120.0	
RGR Plus Measurement	gAPI	Before	185.4	157.1	177.2	206.3	
GR Calibration Gain		Before	0.89	0.80	0.93	1.05	

Company:	Omimex Petroleum Inc	Schlumberger
Well:	Kennedy State 11 36 7 45	
Field:	Holyoke South	
County:	Phillip	
Country:	USA	
Platform Express		
Array Induction		
with Linear Correlation		