

Company: Ominex Petroleum Inc.

Well: Gueck 10-19-7-44

Field: Holyoke South

County: Weld State: Colorado

Platform Express
Array Induction
with Linear Correlation

County: Weld
Field: Holyoke South
Location: NWSE: Sec. 19, T7N, R44W
Well: Gueck 10-19-7-44
Company: Ominex Petroleum Inc.

Location:		Elev.:	
NWSE: Sec. 19, T7N, R44W		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 3747.00 f	
Log Measured From:		Kelly Bushing 6.00 ft	
Drilling Measured From:		Kelly Bushing above Perm. Datum	
API Serial No.	Section:	Township:	Range:
05-095-06468-0000	19	7N	44W

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

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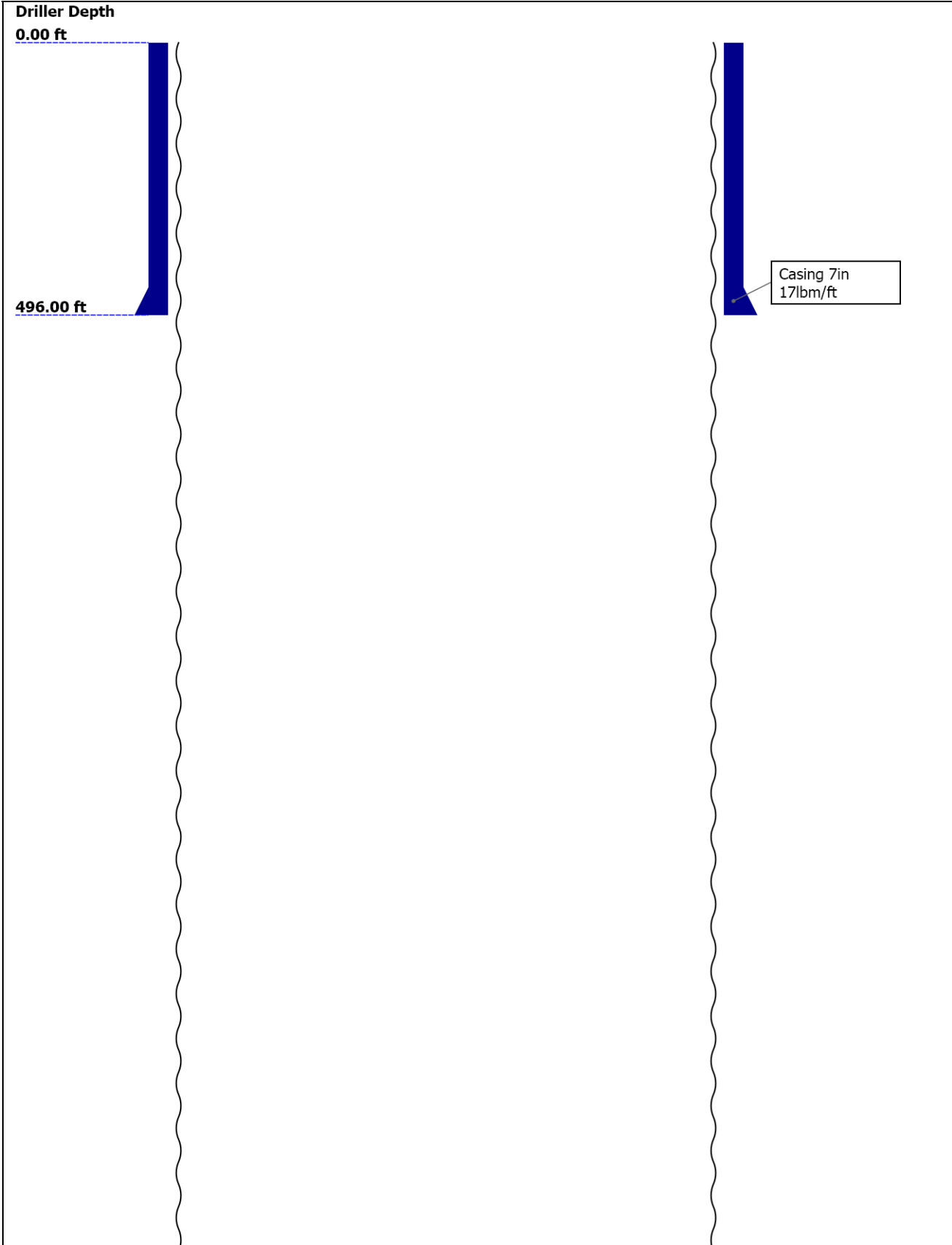
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Well Sketch



2726.00 ft

Open Hole 6.25in

Borehole Size/Casing/Tubing Record

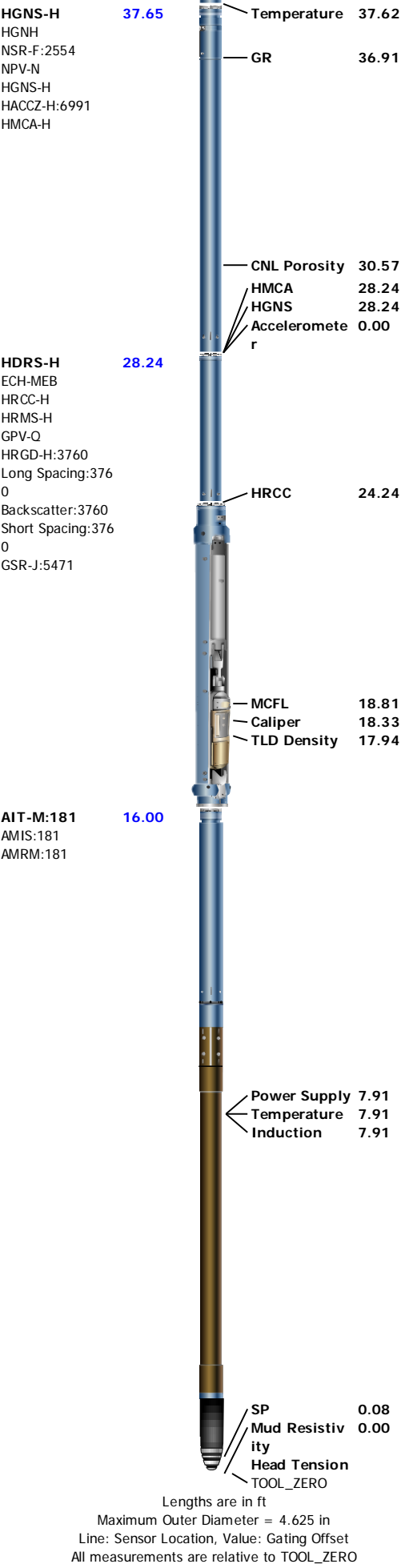
Bit						
Bit Size (in)	6.25					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	2726					
Bottom Logger (ft)	2726					
Casing						
Size (in)	7					
Weight (lbm/ft)	17					
Inner Diameter (in)	6.538					
Grade	N/A					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (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	CXPX-00065					

Borehole Fluids						
Parameter(unit)	ONE					
Fluid Type	Water					
Fluid Name	WBM					
Max Recorded Temperatures (degF)	98.75					
Source of Sample	Active Tank					
Salinity (ppm)	13300					
Density (lbm/gal)	8.8					
Funnel Viscosity (s)	30					
Fluid Loss (cm3)	4.4					
PH	8					
Date/Time Circulation Stopped	24-Nov-2014 10:00:00					
Date Logger on Bottom	24-Nov-2014					
Time Logger on Bottom	01:00:00					
Source RMF	Calculated					
RMC	Calculated					
RM @ Meas Temp (ohm.m@degF)	0.22 @ 73					
RMF @ Meas Temp (ohm.m@degF)	0.16 @ 75					
RMC @ Meas Temp (ohm.m@degF)	0.32 @ 75					
RM @ BHT (ohm.m@degF)	0.17 @ 98.75					
RMF @ BHT (ohm.m@degF)	0.12 @ 98.75					
RMC @ BHT (ohm.m@degF)	0.25 @ 98.75					
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary						
ONE: Toolstring				ONE: Remarks		
Equip name	Length	MP name	Offset	Toolstring run as per tool sketch.		
LEH-QT	56.07			Matrix: Limestone MDEN:2.71 g/cm3		
LEH-QT				Rig: Excell #2		
DTC-H	53.15			Crew: Ian Derry, Jay Musgrave, Mike Sullivan		
ECH-KC		CTEM	52.25			
DTC-H		HV	0.00			
		ToolStatus	50.15			
		TelStatus	50.15			
Weight[2]	50.15					
GPIT-F	45.65					
GPIH-B		GPIT-F Incl	44.23			
DHRU-F		ometer				
GPIC-F						
		GPIT	0.00			
Weight[1]	41.65					



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: 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

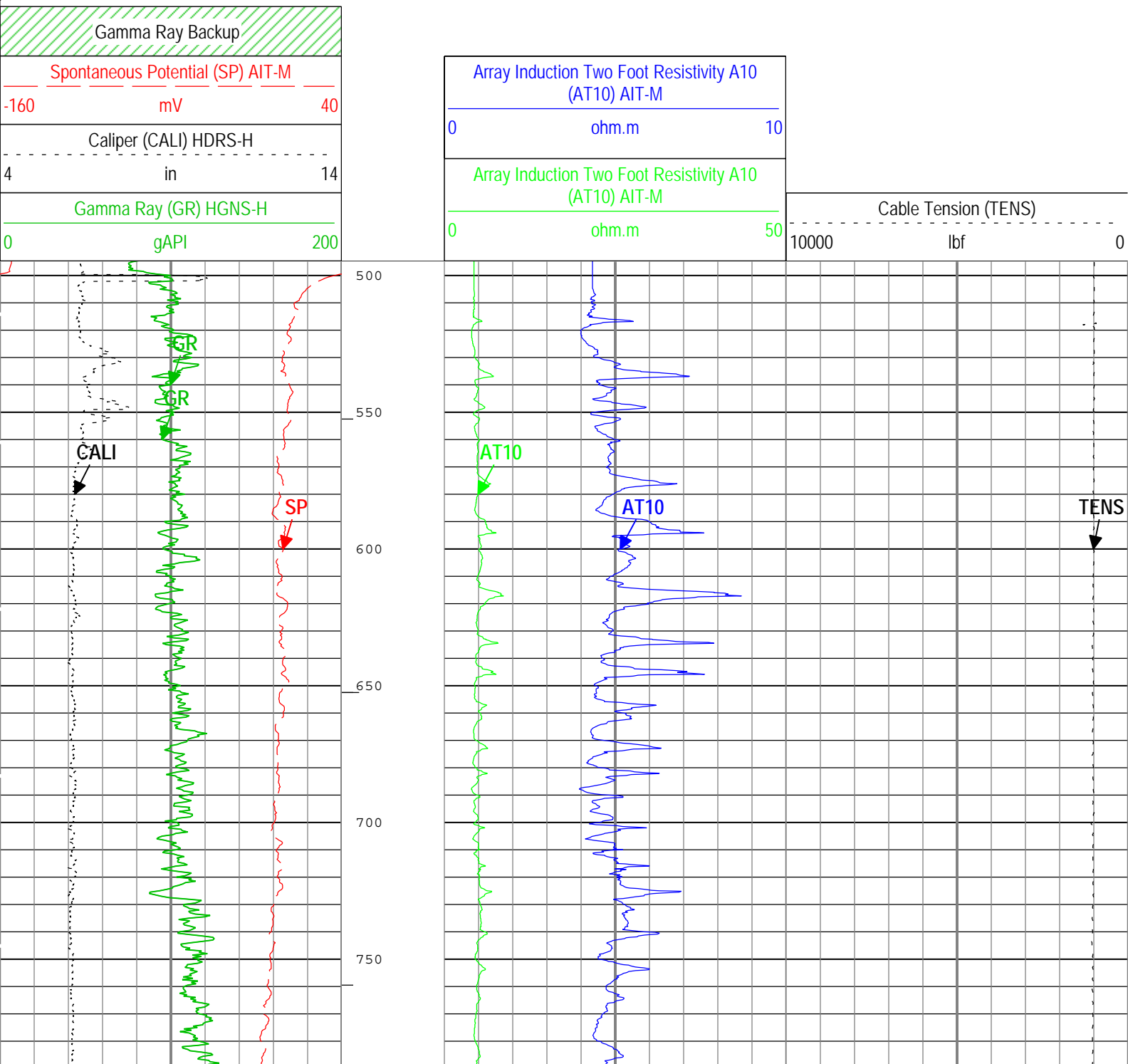
Depth Creation Date: 24-Nov-2014 20:38:56

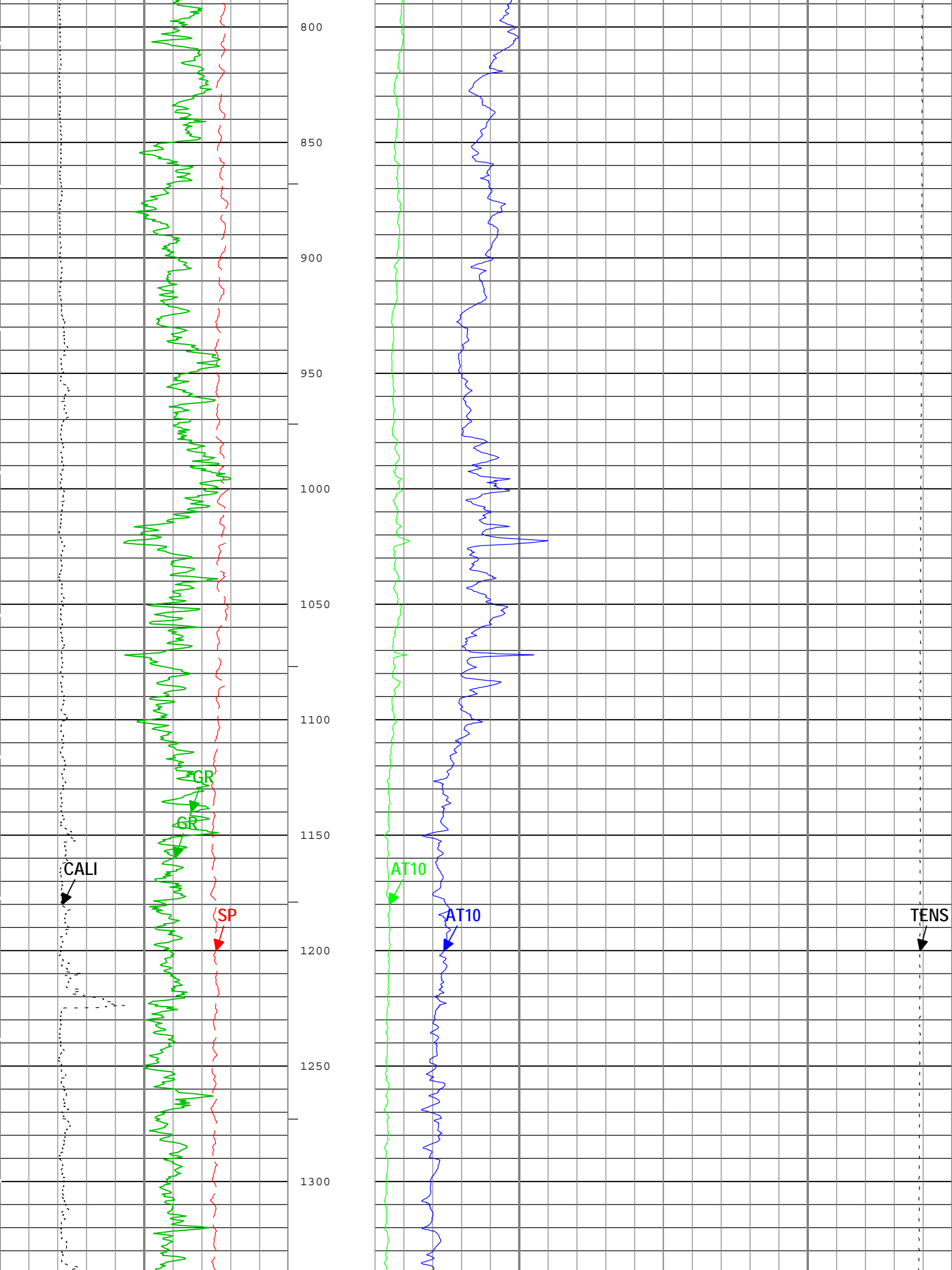
Channel	Source	Sampling
AT10	AIT-M:AMIS:AMIS	3in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR	HGNS-H:HGNS-H:HGNS-H	6in
ICV	Borehole	6in
SP	AIT-M:AMIS:AMIS	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

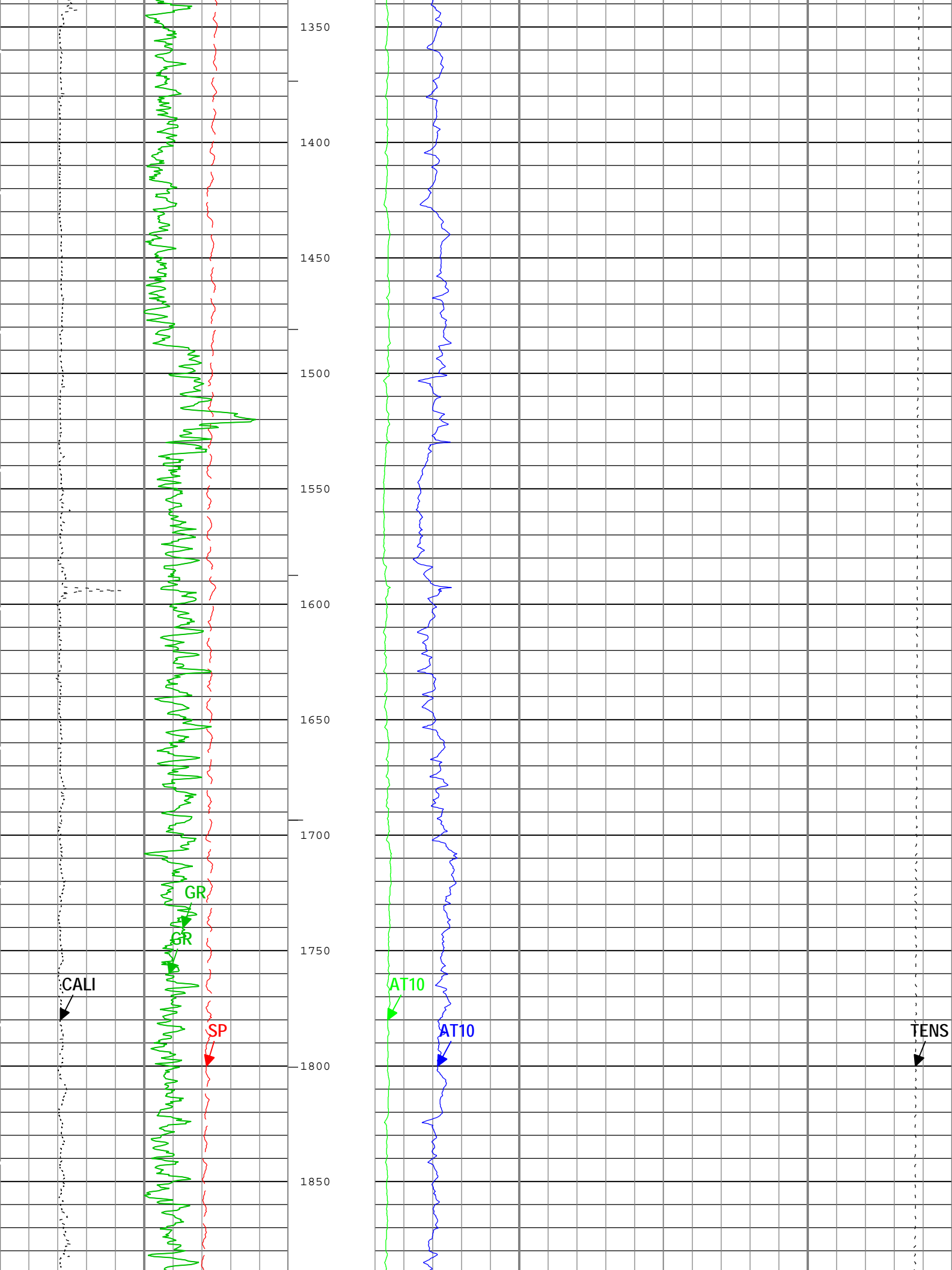
└─ ICV - Integrated Cement Volume every 10.00 (ft3)

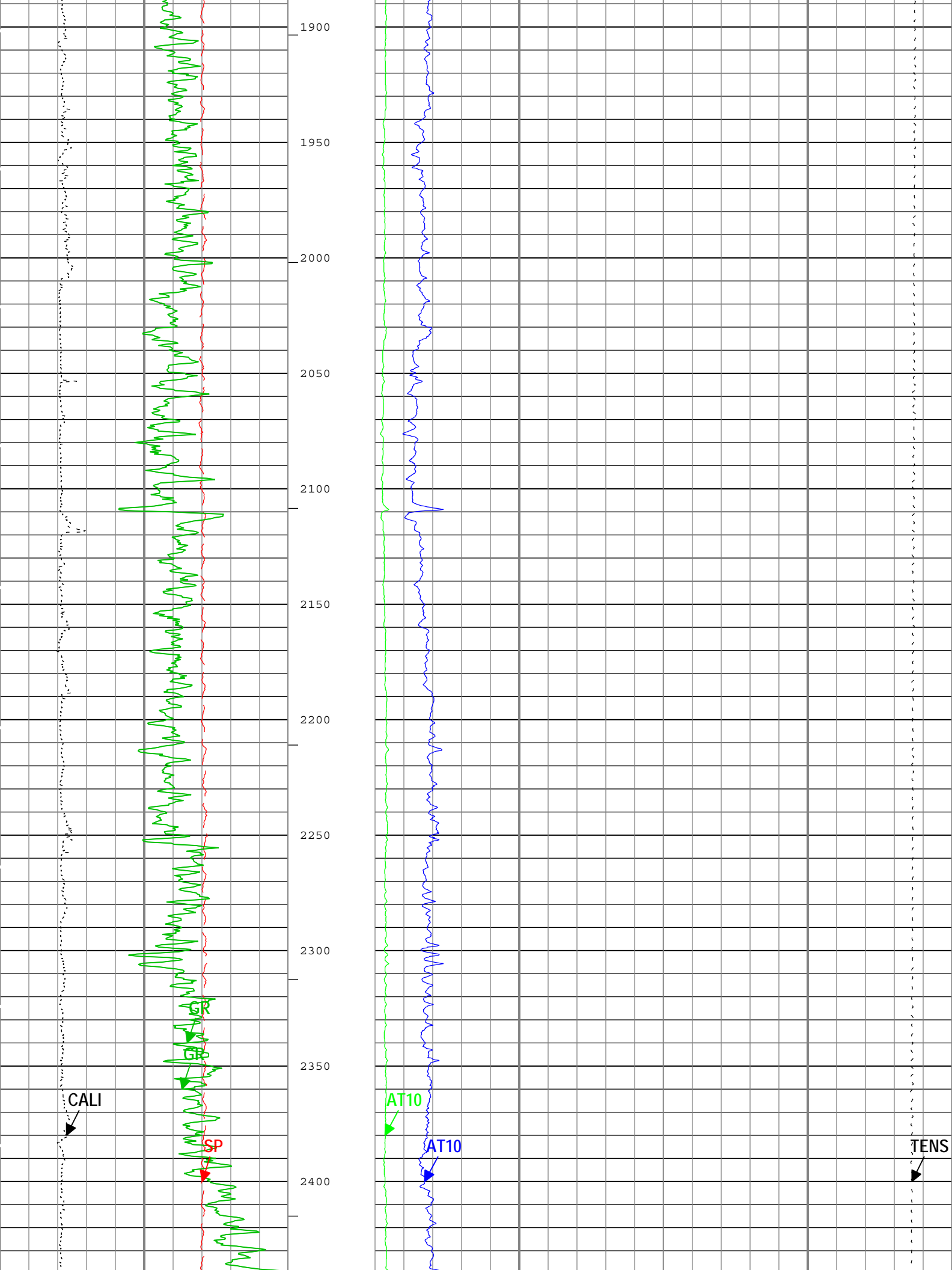
└─ ICV - Integrated Cement Volume every 100.00 (ft3)

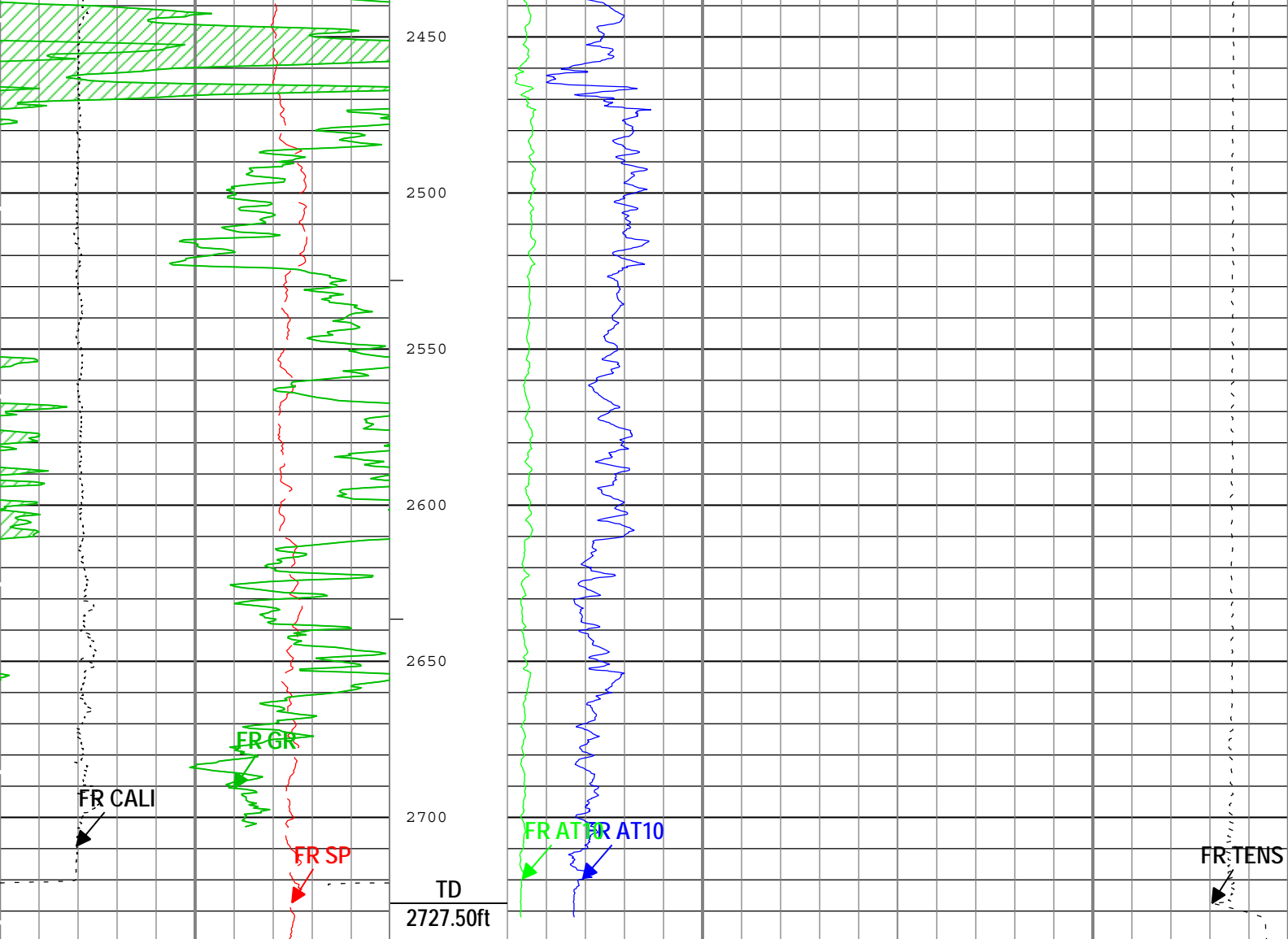
TIME_1900 - Time Marked every 60.00 (s)











Gamma Ray Backup		Array Induction Two Foot Resistivity A10 (AT10) AIT-M		Cable Tension (TENS)	
Spontaneous Potential (SP) AIT-M		0 ohm.m 10		10000 lbf 0	
-160 mV 40		Array Induction Two Foot Resistivity A10 (AT10) AIT-M			
Caliper (CALI) HDRS-H		0 ohm.m 50			
4 in 14					
Gamma Ray (GR) HGNS-H					
0 gAPI 200					

TIME_1900 - Time Marked every 60.00 (s)

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

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: 24-Nov-2014 20:38:56

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	0.125	in
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
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	7	in
DFD	Drilling Fluid Density	Borehole	8.8	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

Tool Control Parameters

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

ONE

Induction Repeat Analysis

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	217.72	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS	465.24	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
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

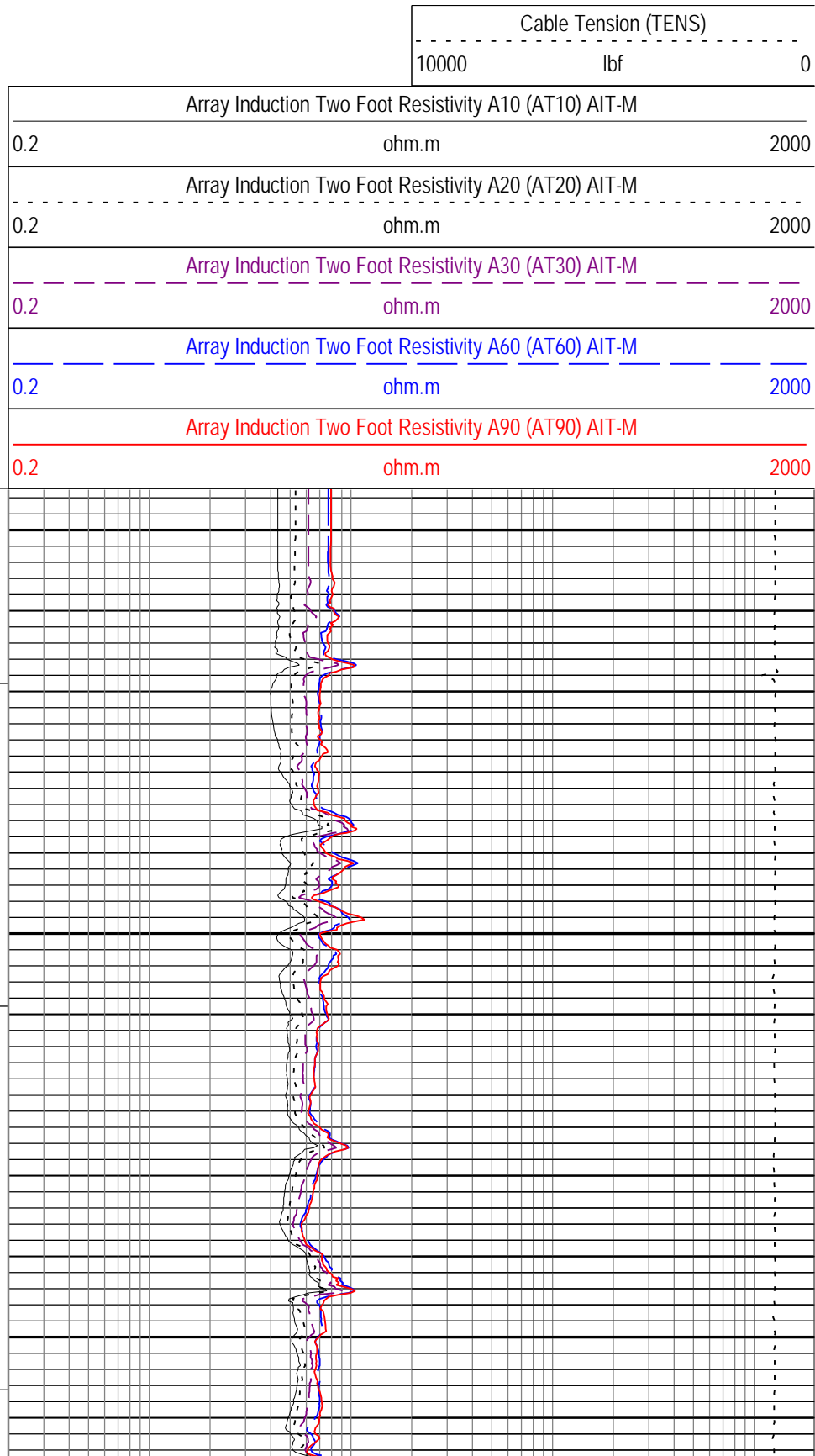
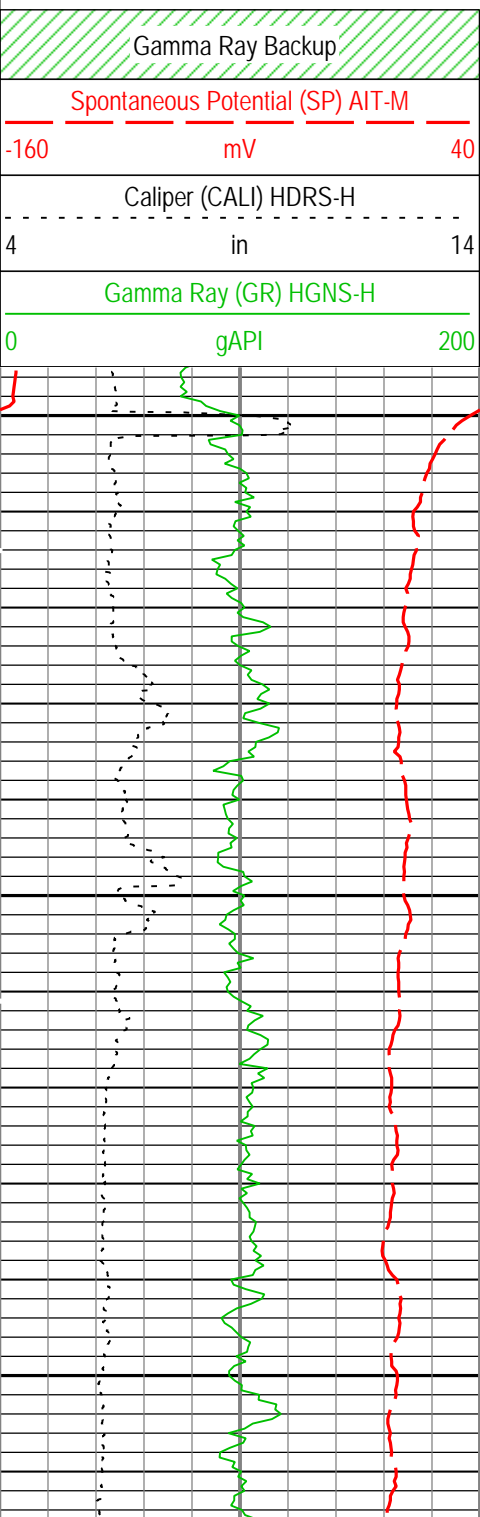
Description: AIT Basic Log Two Format: Log (EMD 5in Induction) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 24-Nov-2014 20:38:57

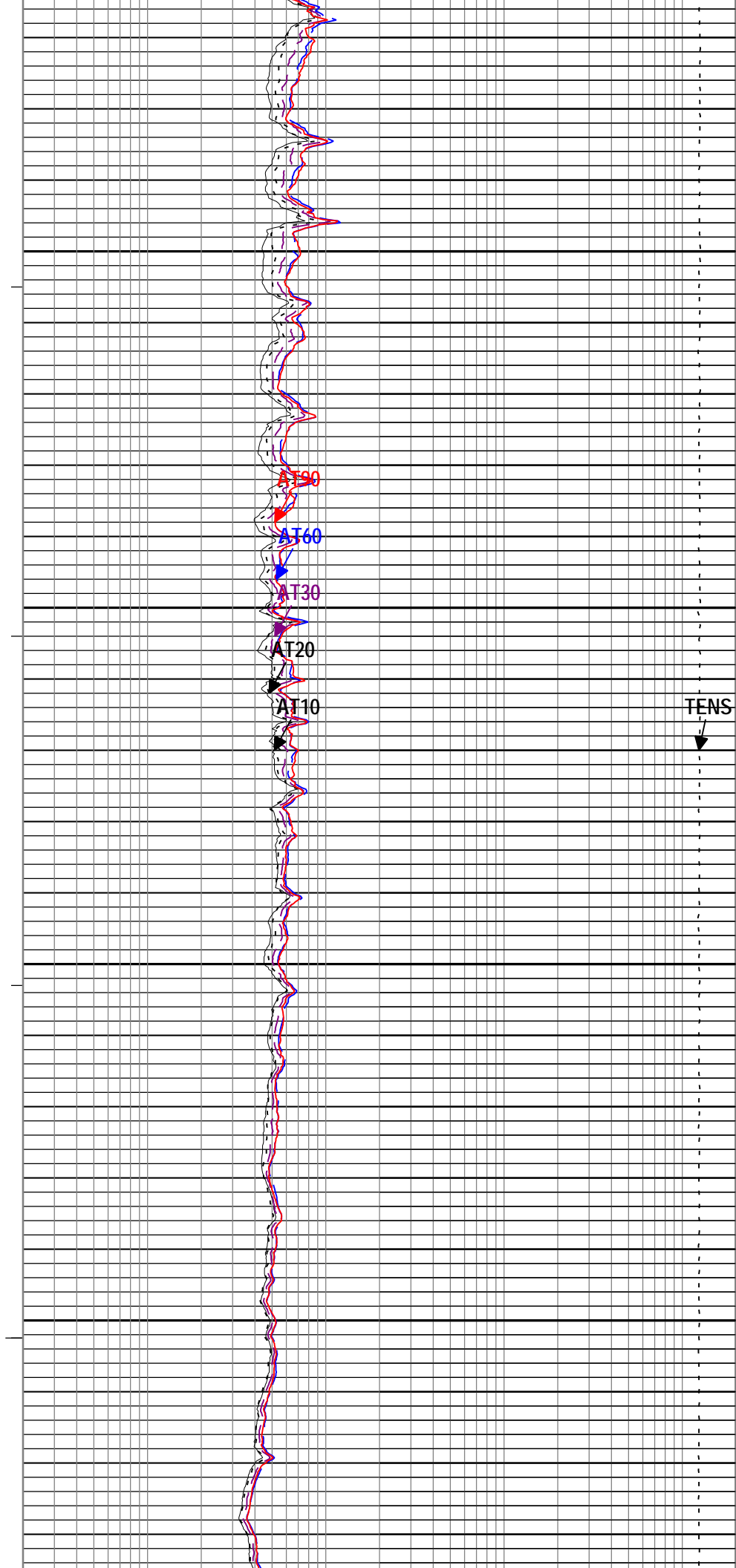
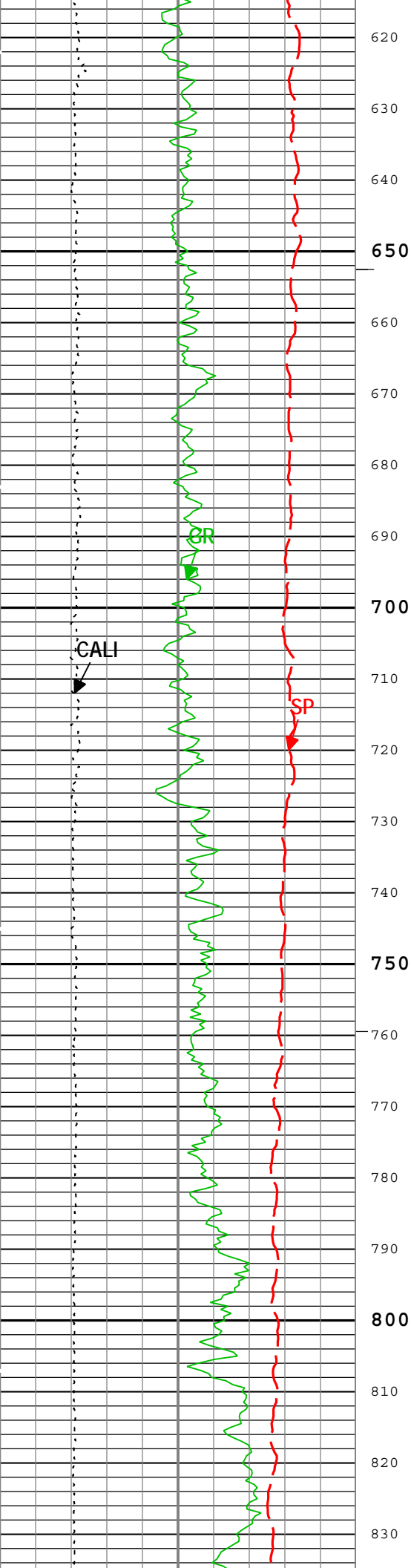
Channel	Source	Sampling
AT10	AIT-M:AMIS:AMIS	3in
AT20	AIT-M:AMIS:AMIS	3in
AT30	AIT-M:AMIS:AMIS	3in
AT60	AIT-M:AMIS:AMIS	3in
AT90	AIT-M:AMIS:AMIS	3in
CALI	HDRS-H:HRCC-H:HRCC-H	1in
GR	HGNS-H:HGNS-H:HGNS-H	6in
ICV	Borehole	6in
IHV	Borehole	6in

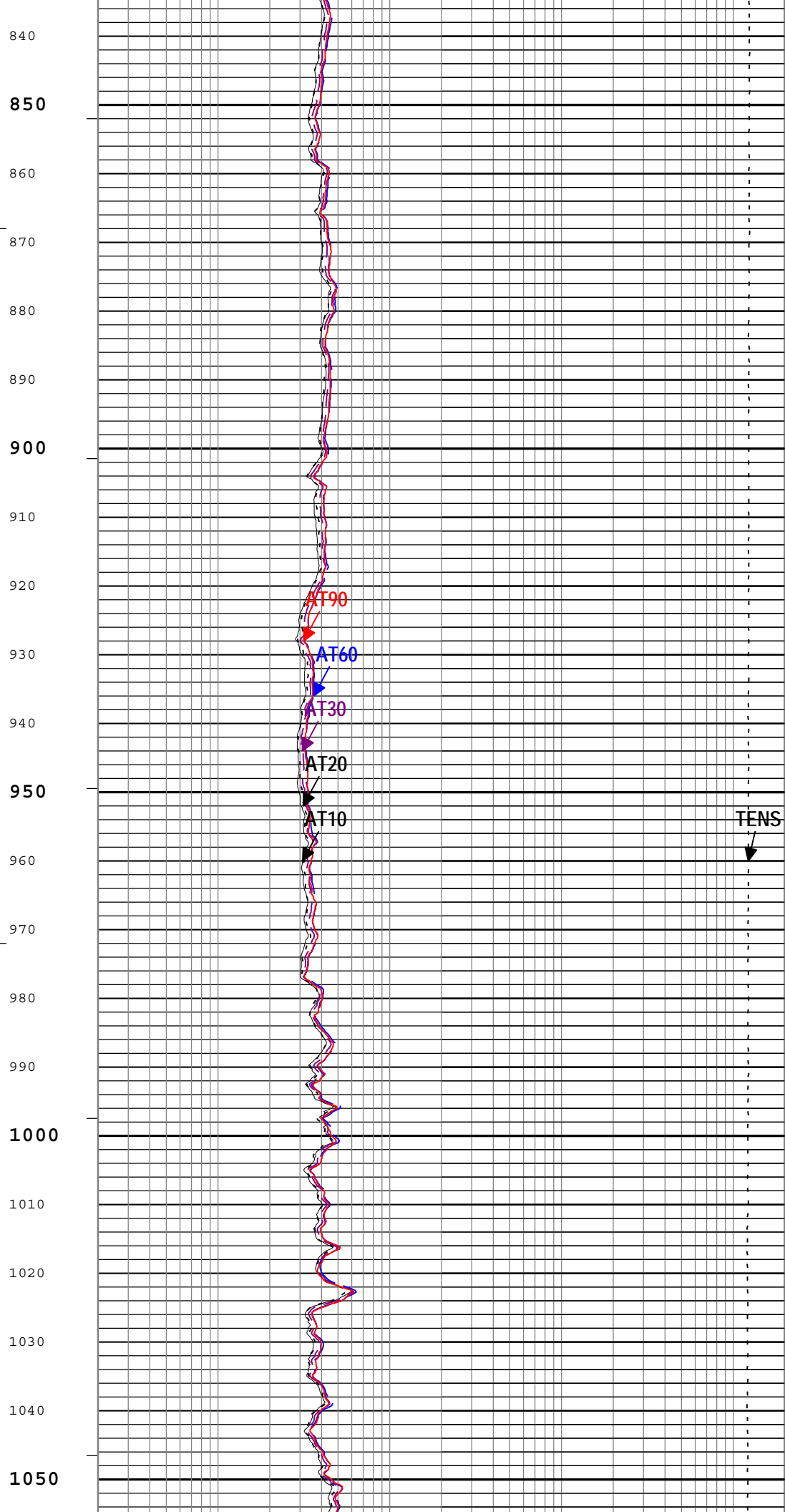
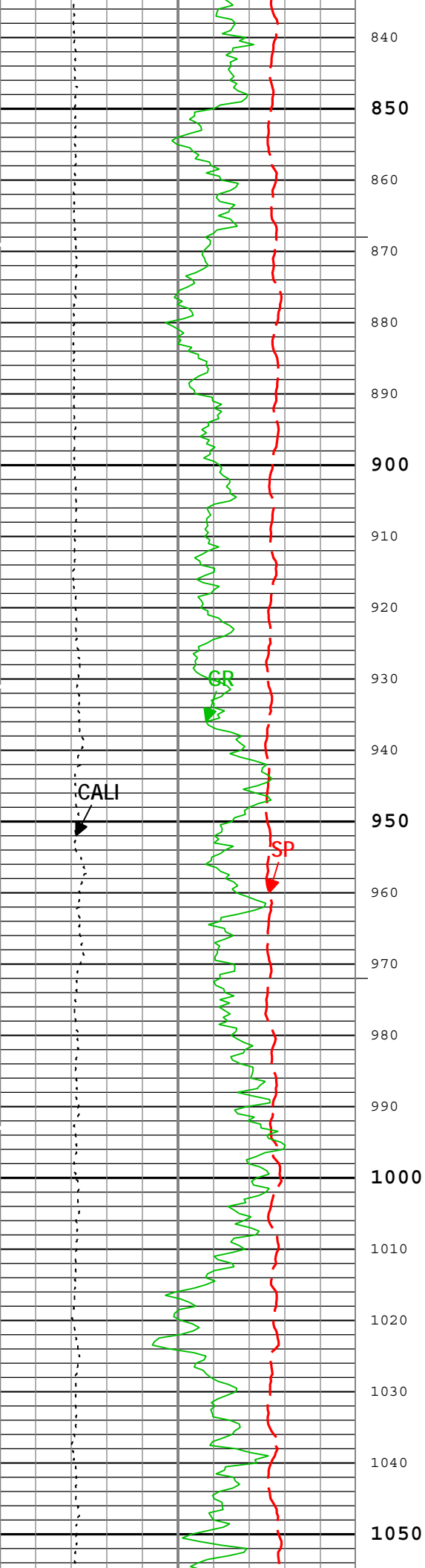
SP	AIT-M:AMIS:AMIS	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

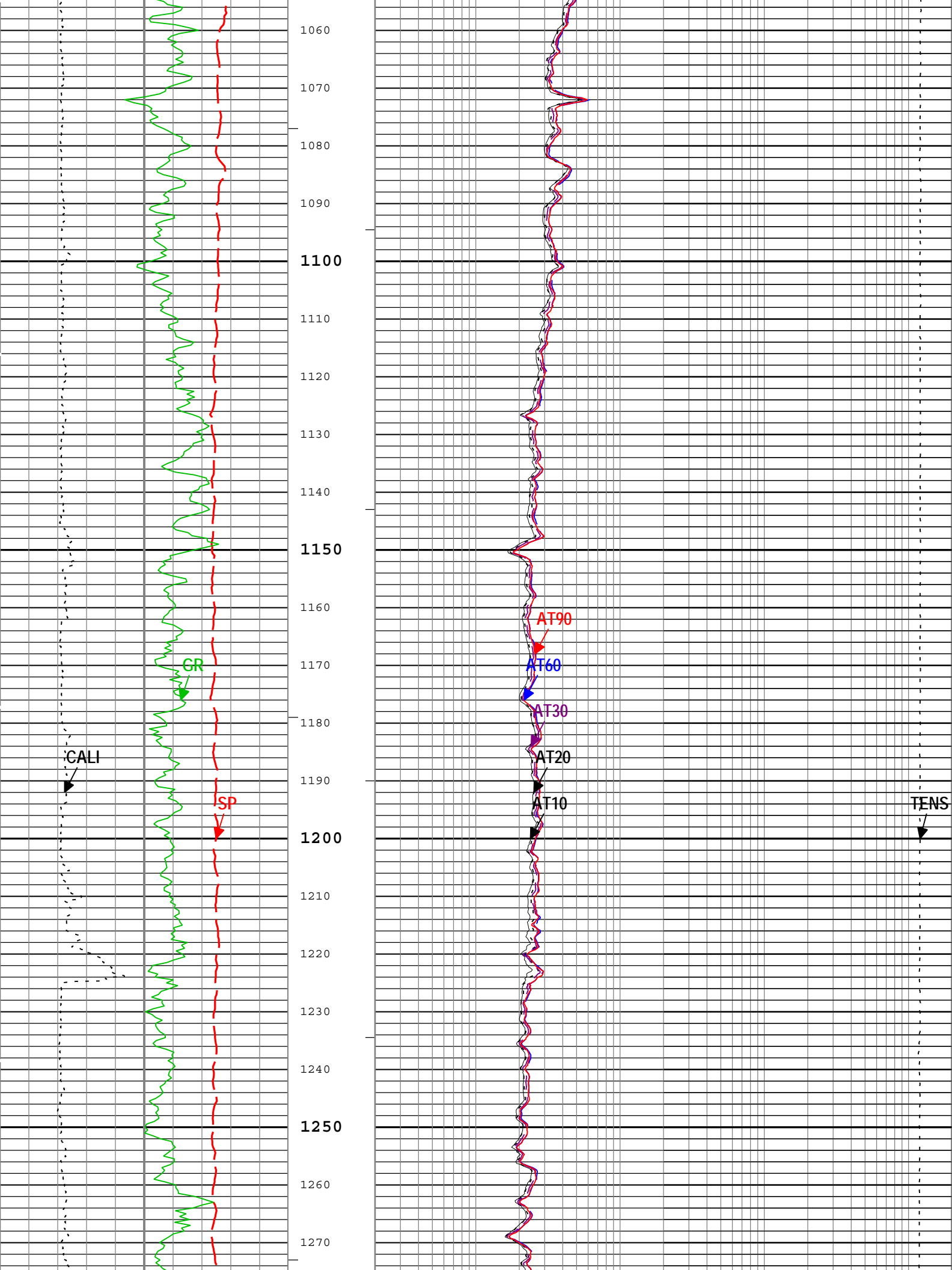
- IHV - Integrated Hole Volume every 10.00 (ft3)
- IHV - Integrated Hole Volume every 100.00 (ft3)
- ICV - Integrated Cement Volume every 10.00 (ft3)
- ICV - Integrated Cement Volume every 100.00 (ft3)

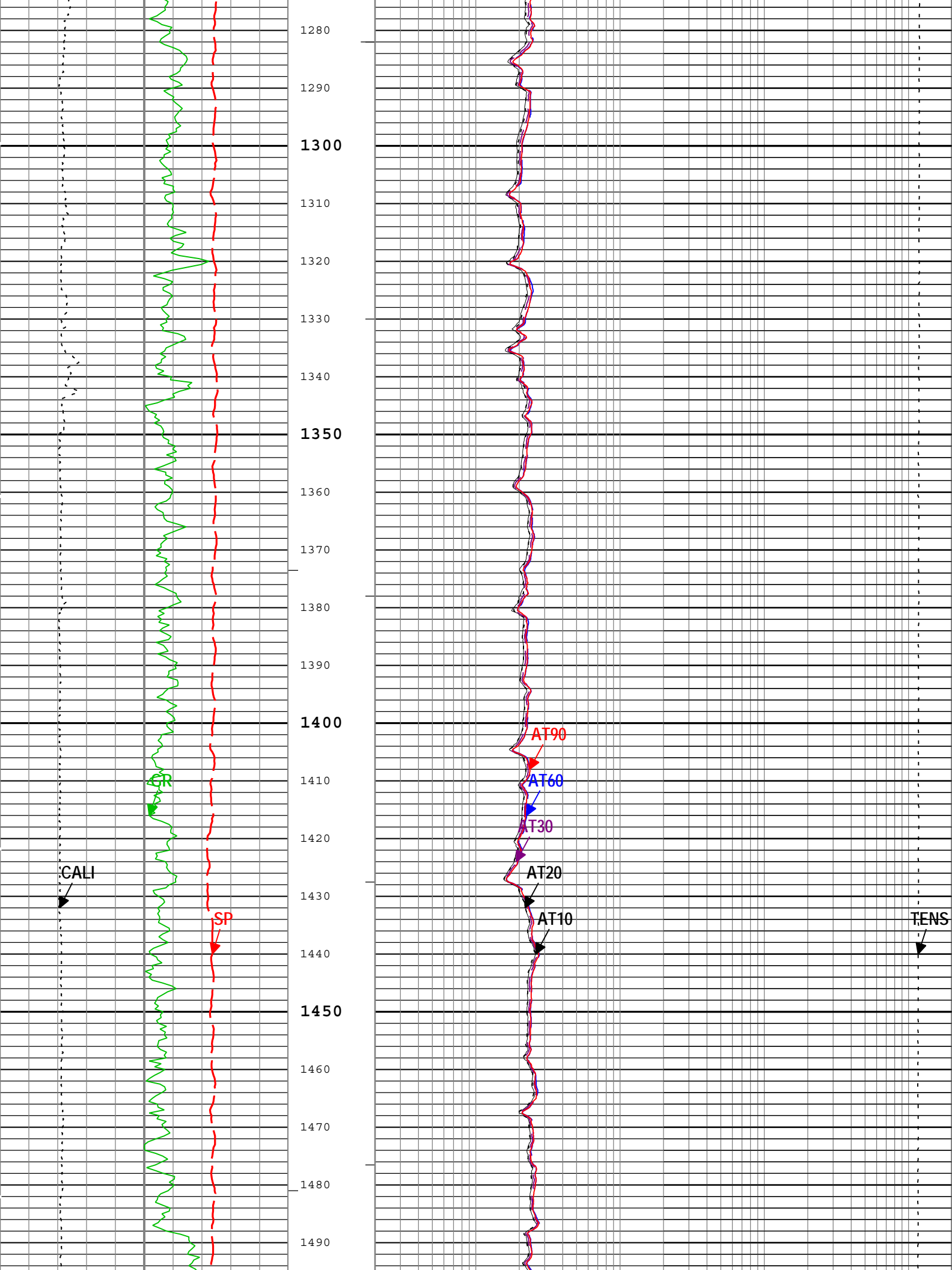
TIME_1900 - Time Marked every 60.00 (s)

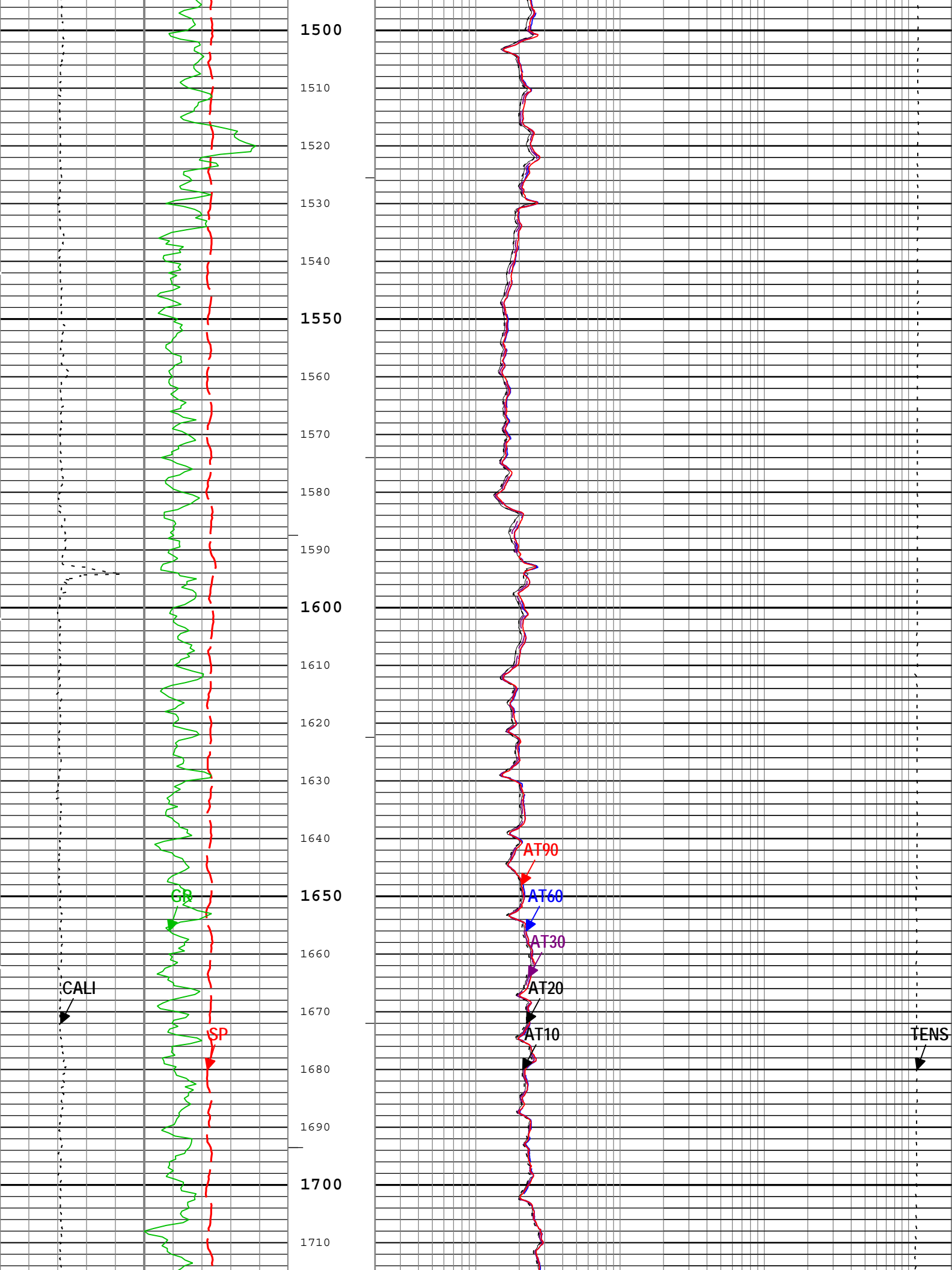


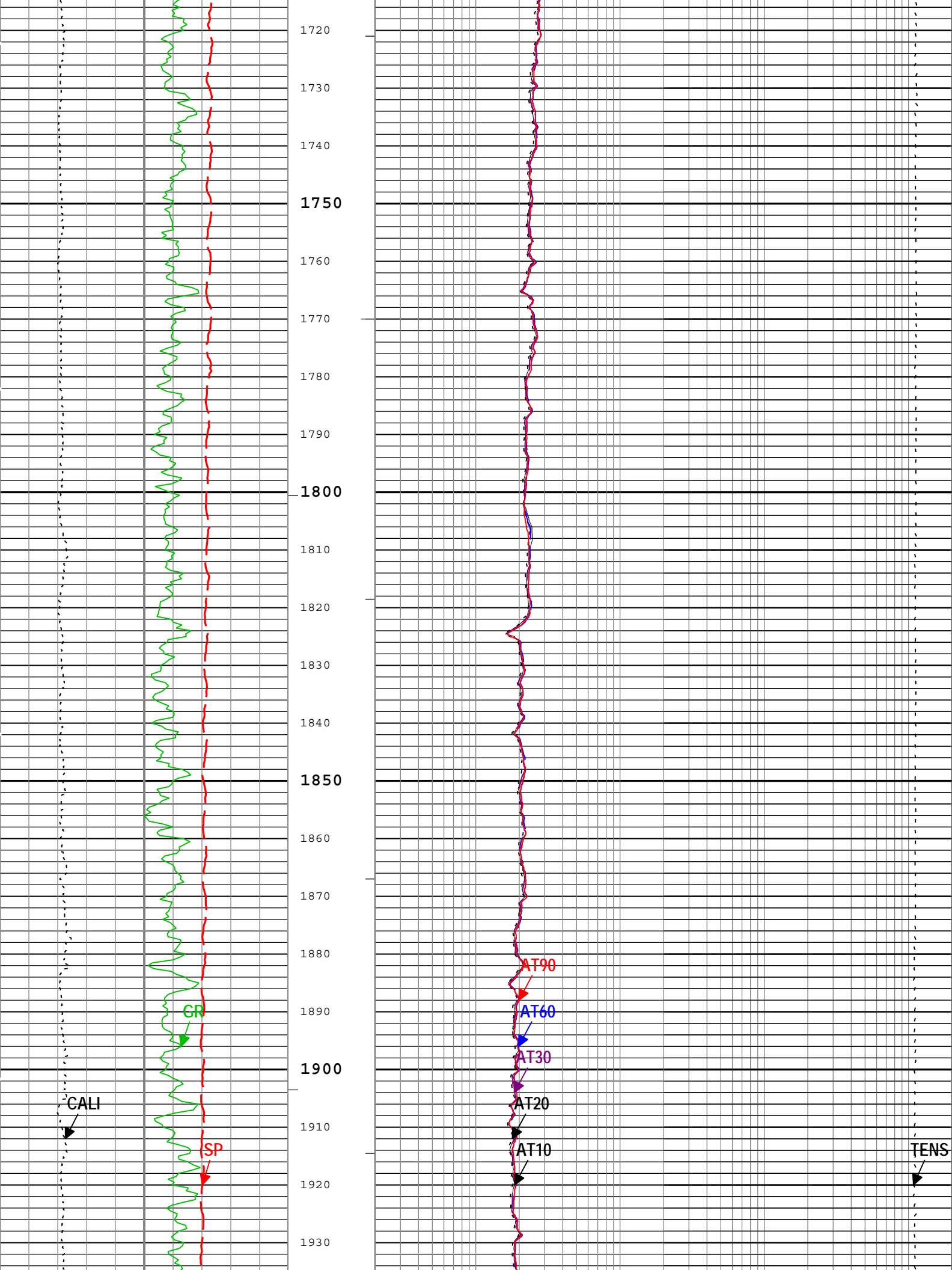


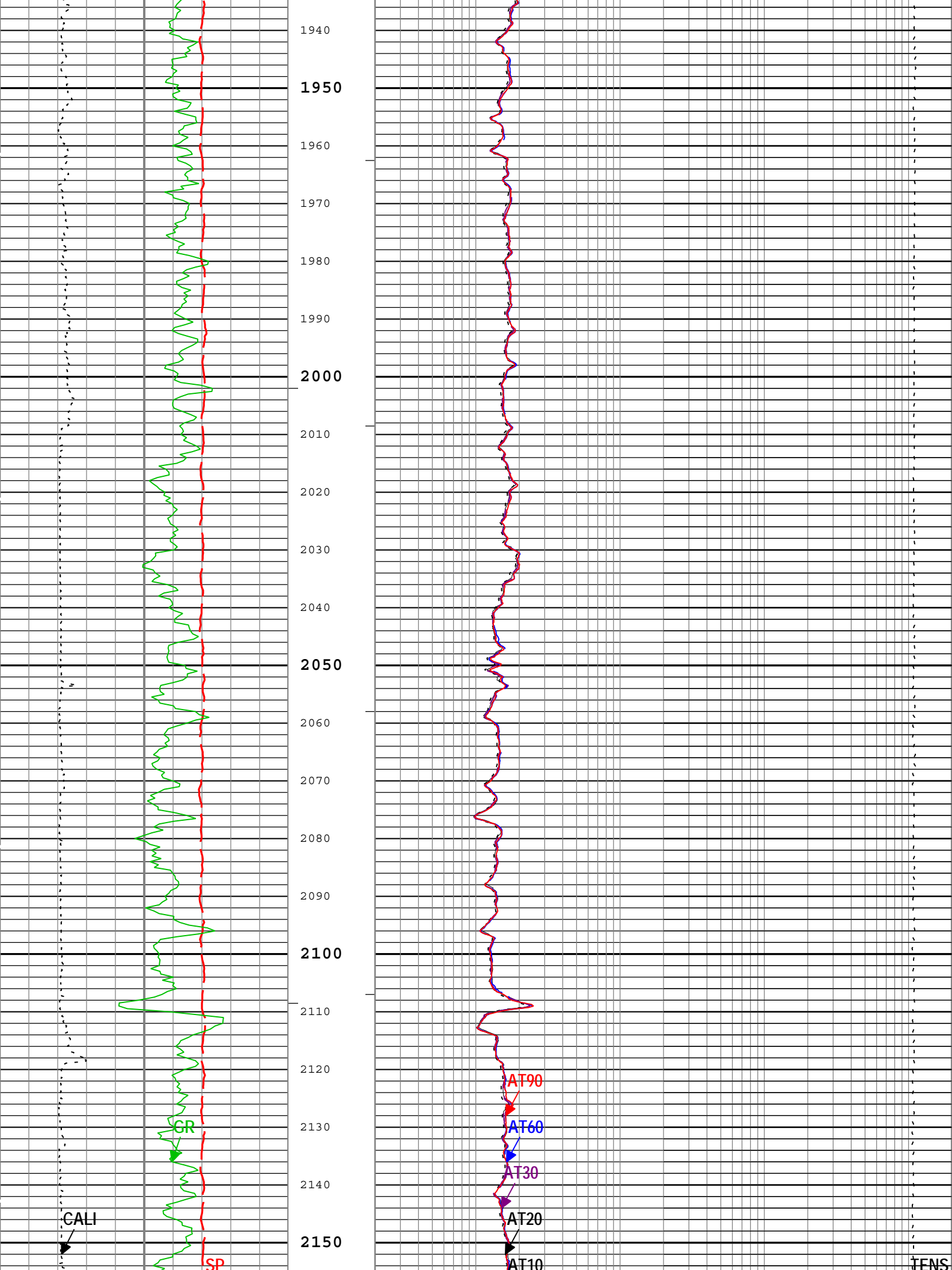


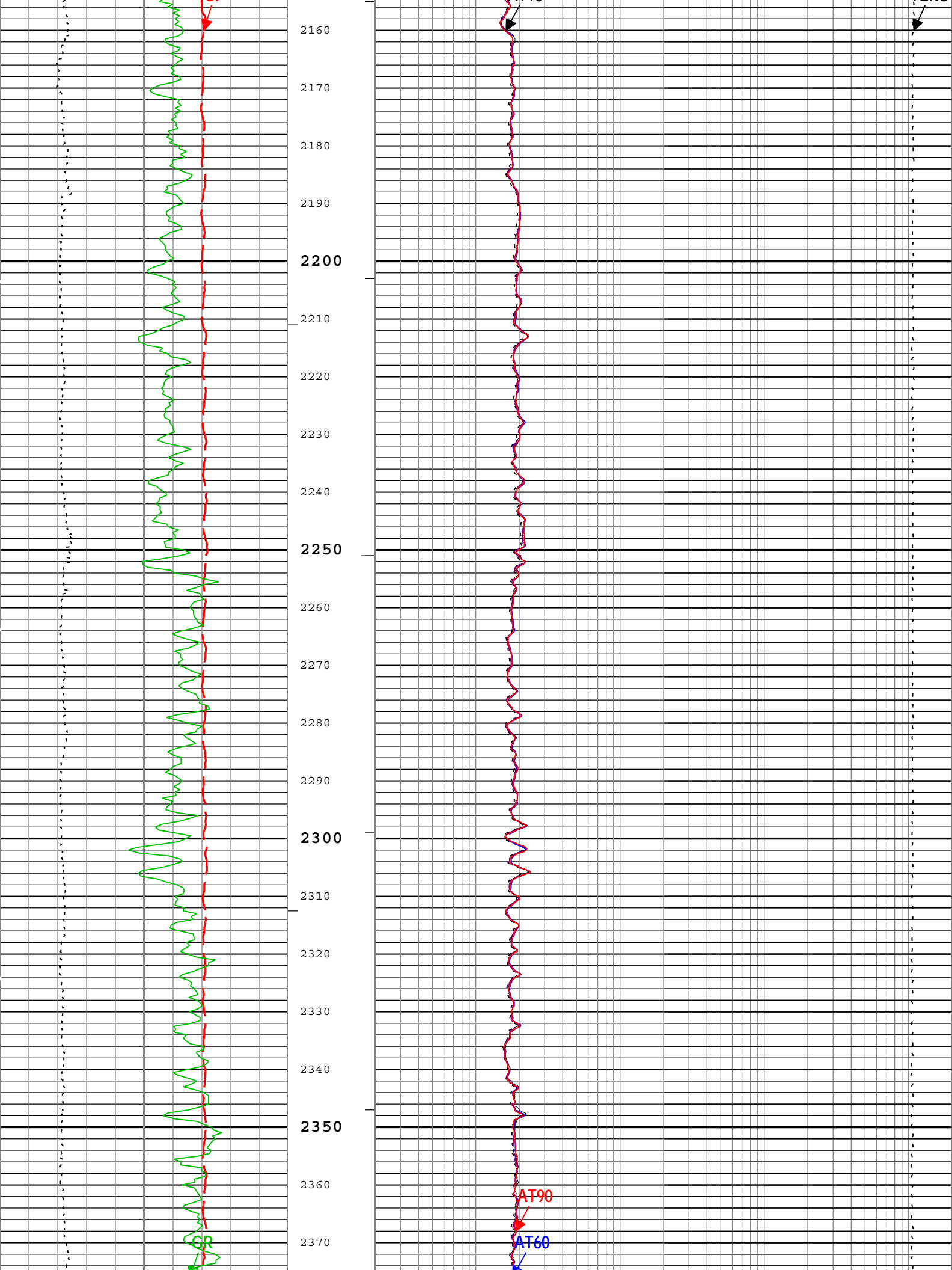


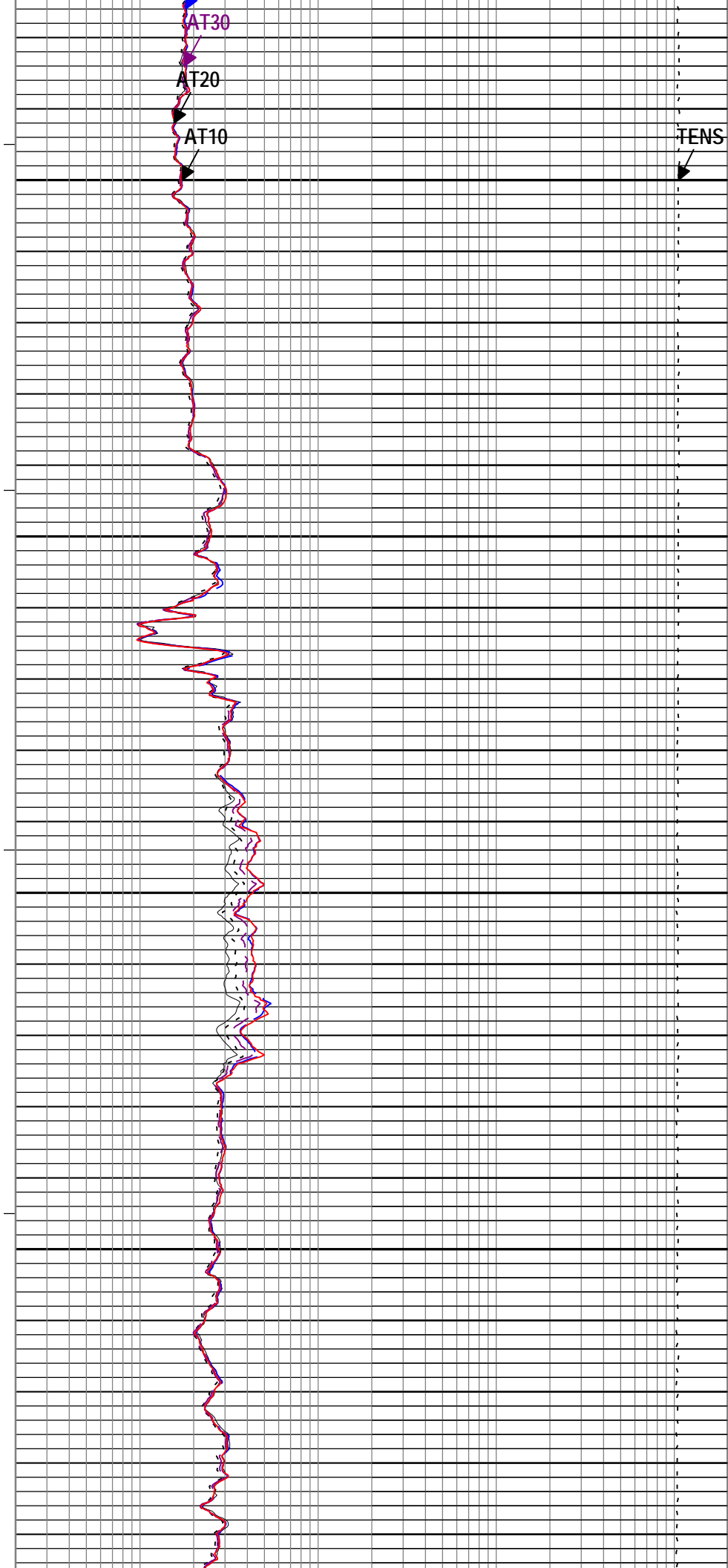
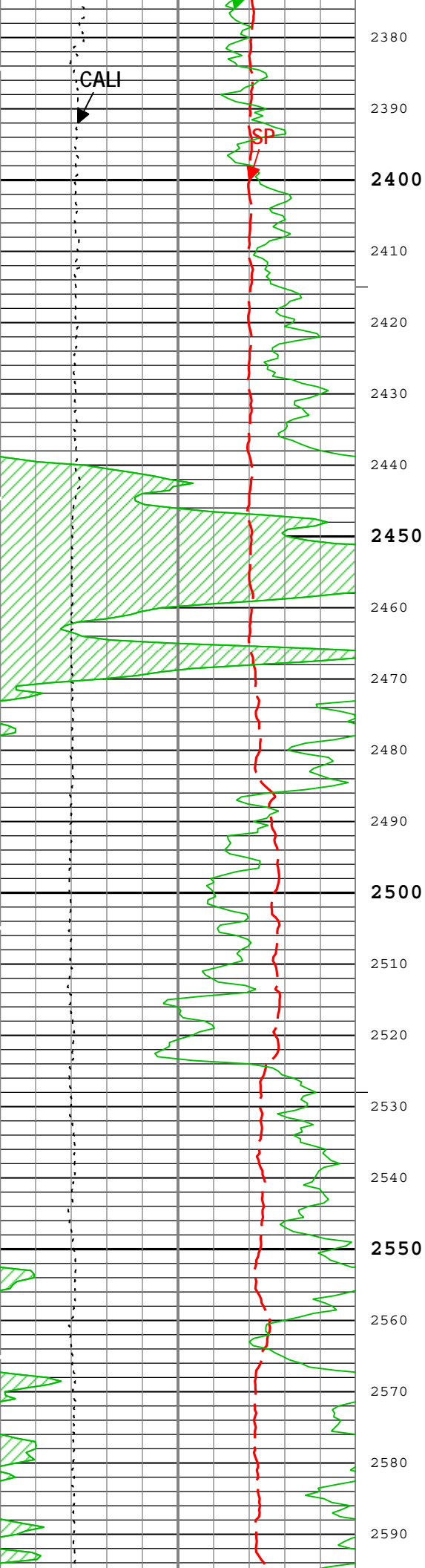


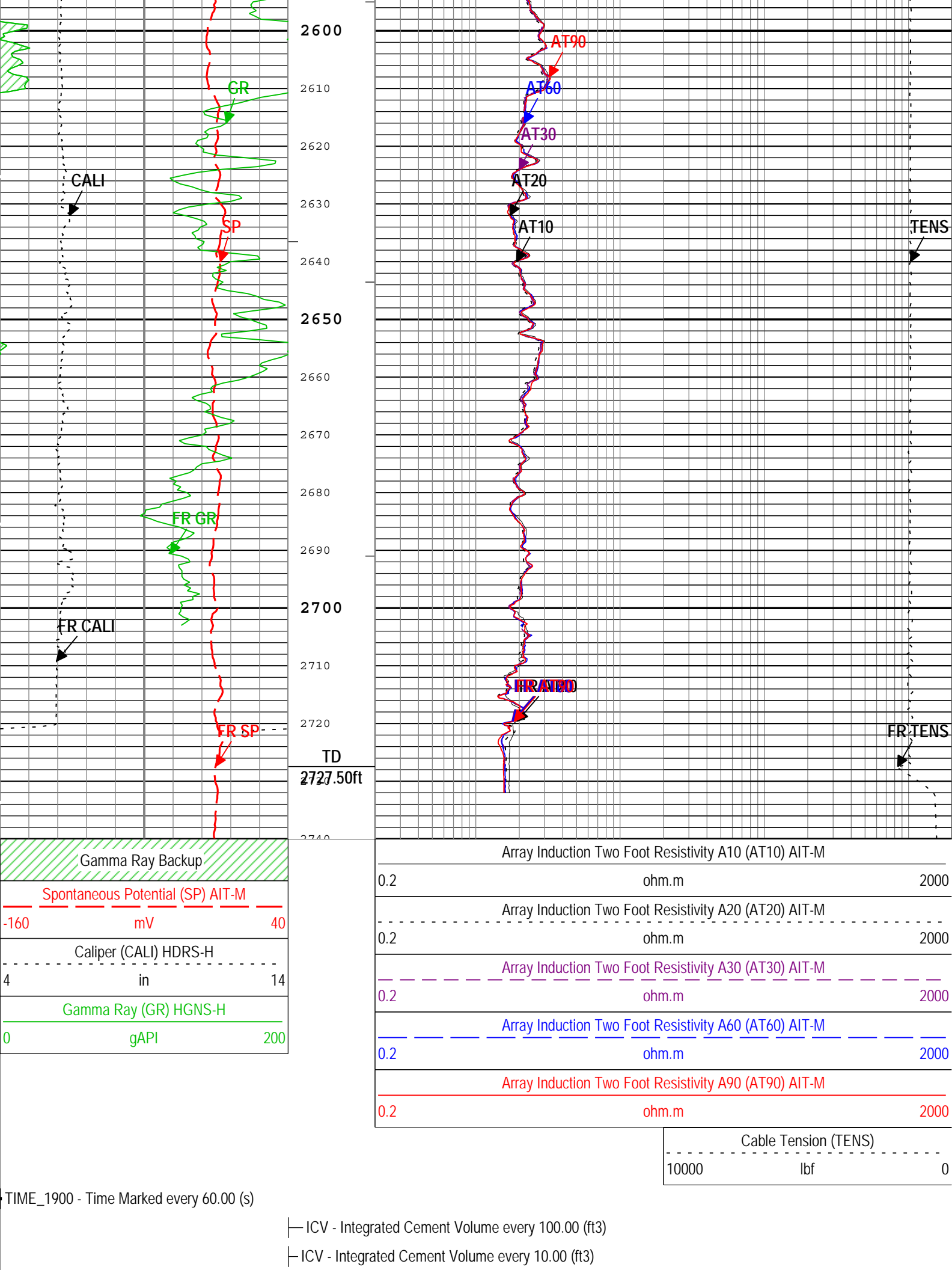












—IHV - Integrated Hole Volume every 10.00 (ft3)

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	0.125	in
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
CSODDRL	Casing Outer Diameter - Zoned along driller depths	WLSESSION	7	in
DFD	Drilling Fluid Density	Borehole	8.8	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

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

5" Induction

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

Log	Company:Omimex Petroleum Inc.	Well:Gueck 10-19-7-44
		ONE: Repeat[3]:Up:S010

TIME_1900 - Time Marked every 60.00 (s)

—IHV - Integrated Hole Volume every 10.00 (ft3)

—IHV - Integrated Hole Volume every 100.00 (ft3)

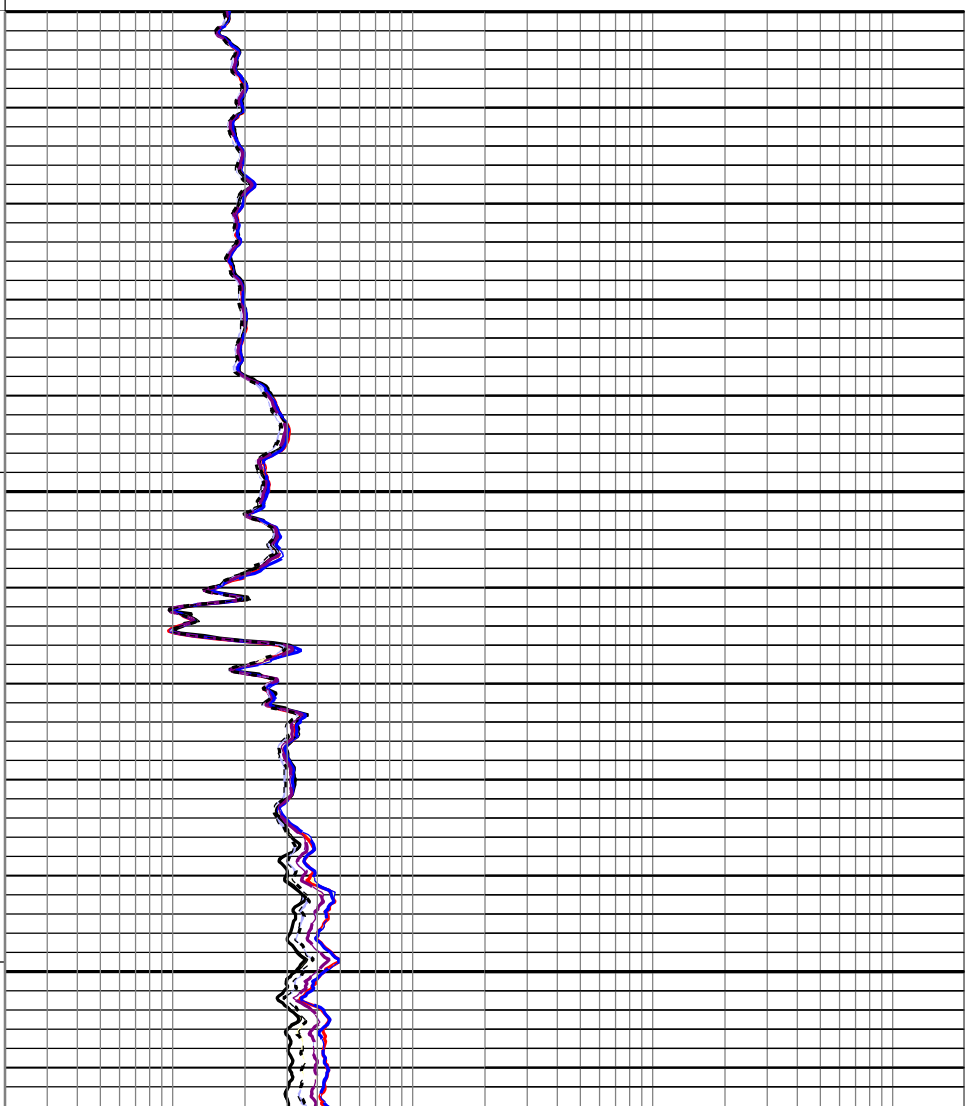
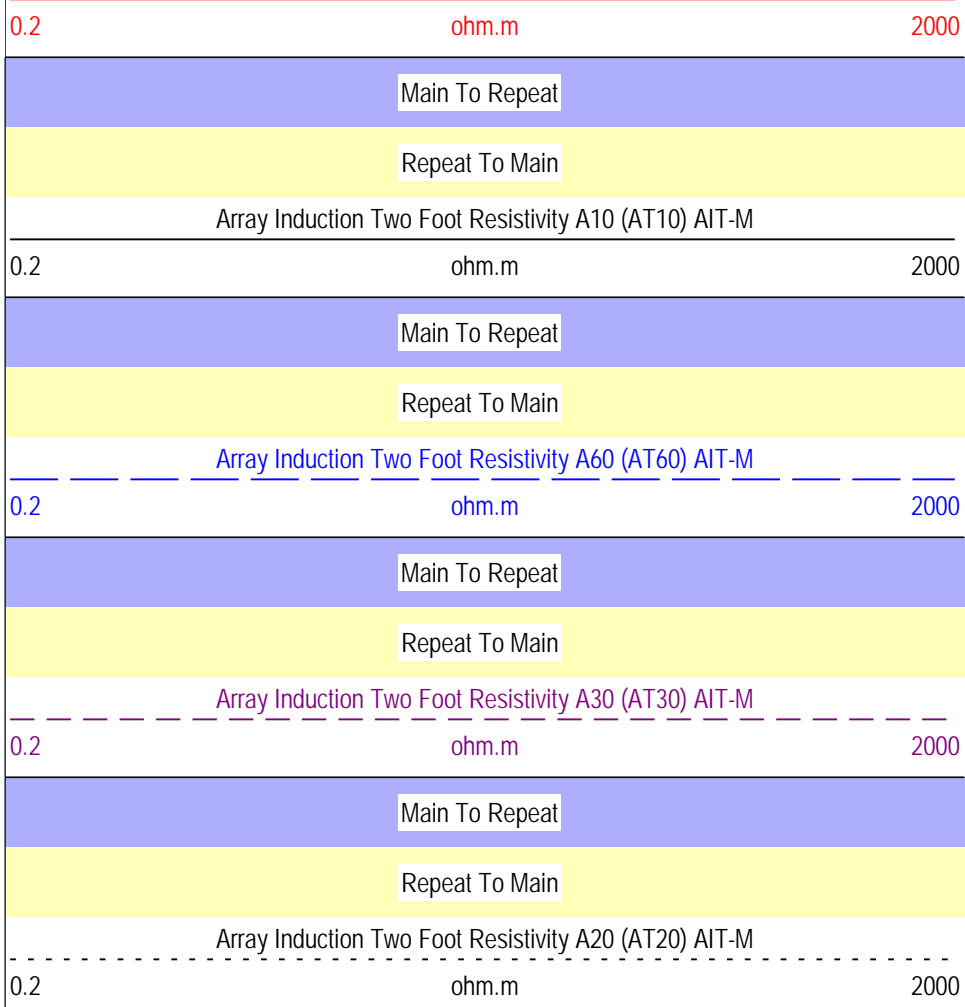
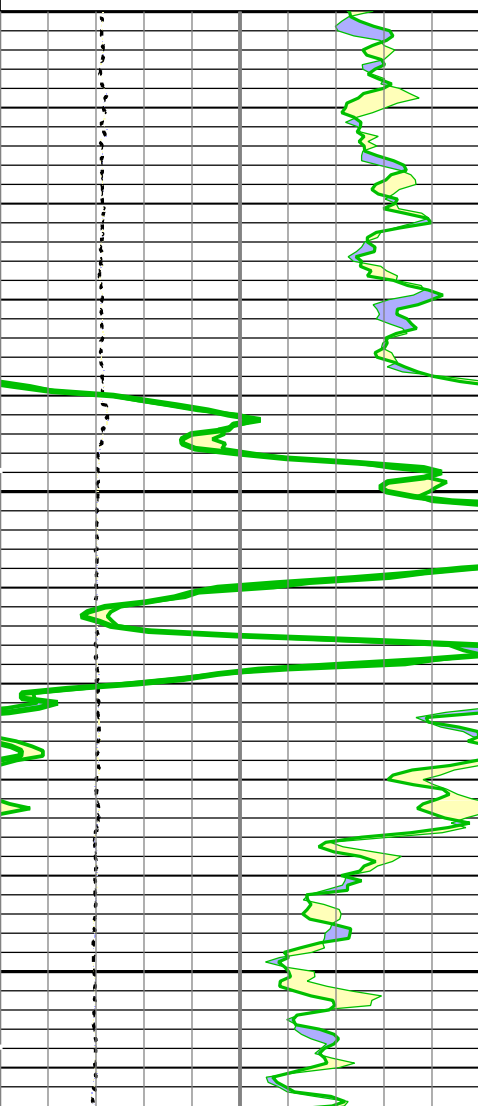
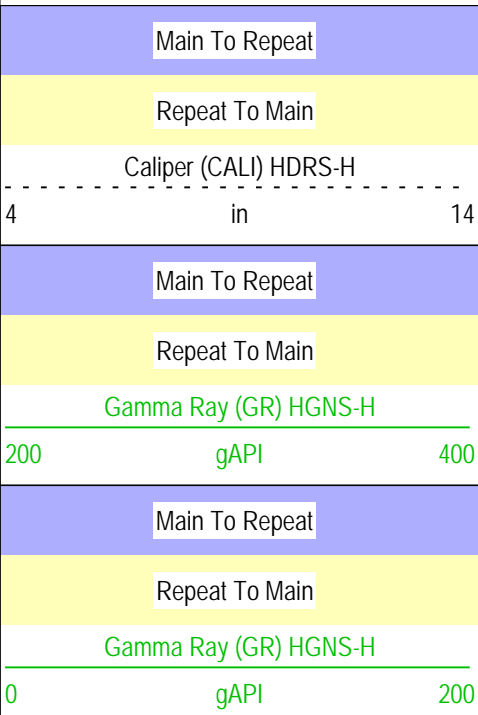
—ICV - Integrated Cement Volume every 10.00 (ft3)

—ICV - Integrated Cement Volume every 100.00 (ft3)

Main To Repeat

Repeat To Main

Array Induction Two Foot Resistivity A90 (AT90) AIT-M



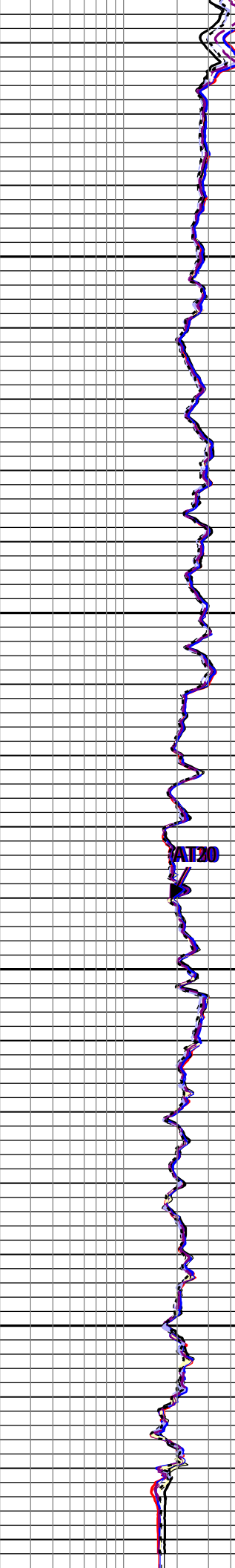
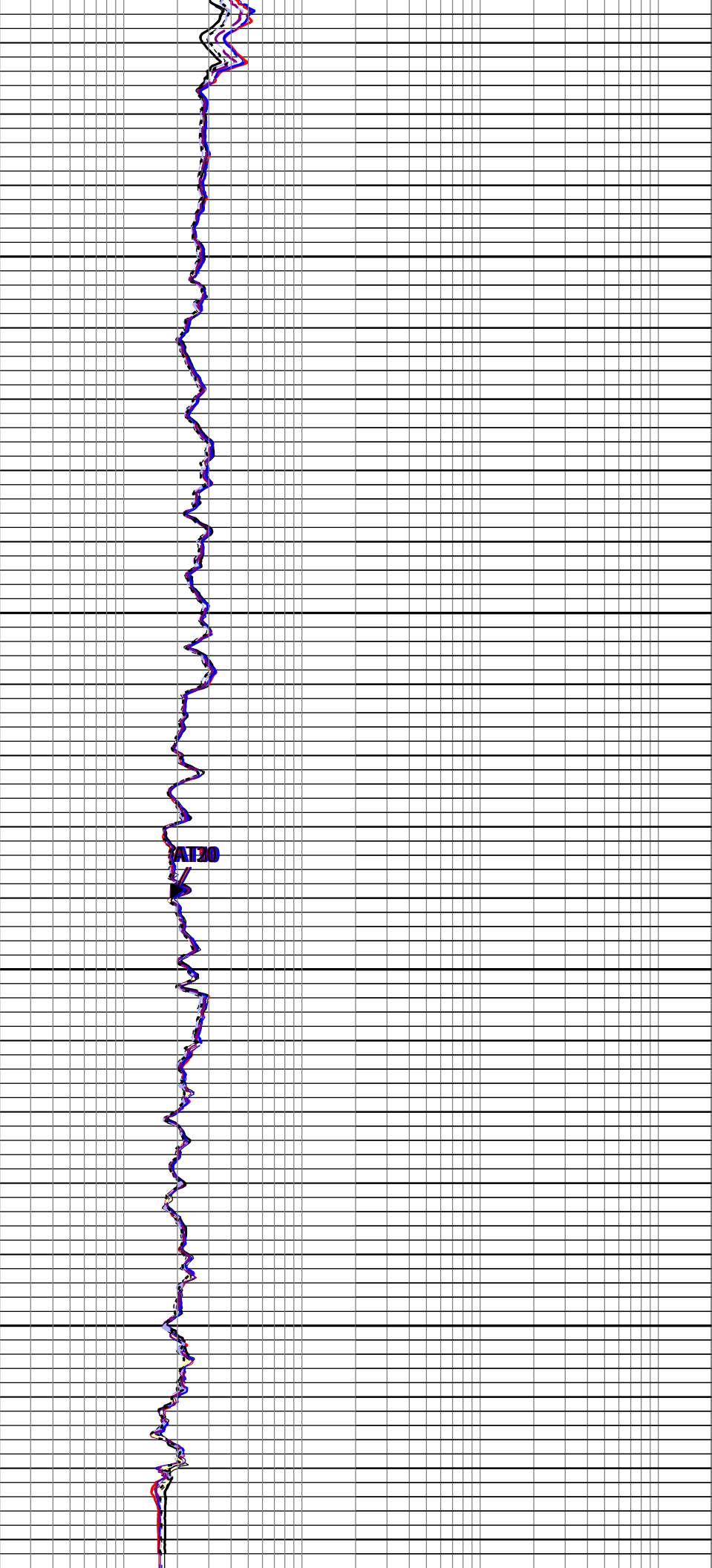
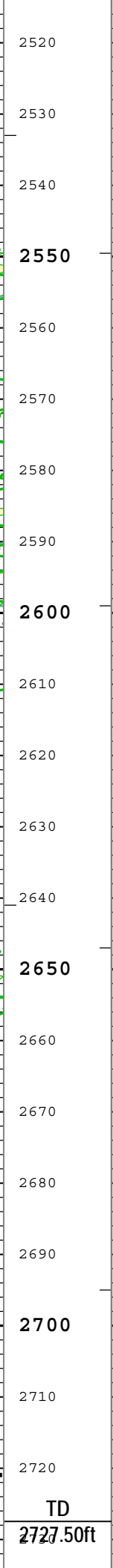
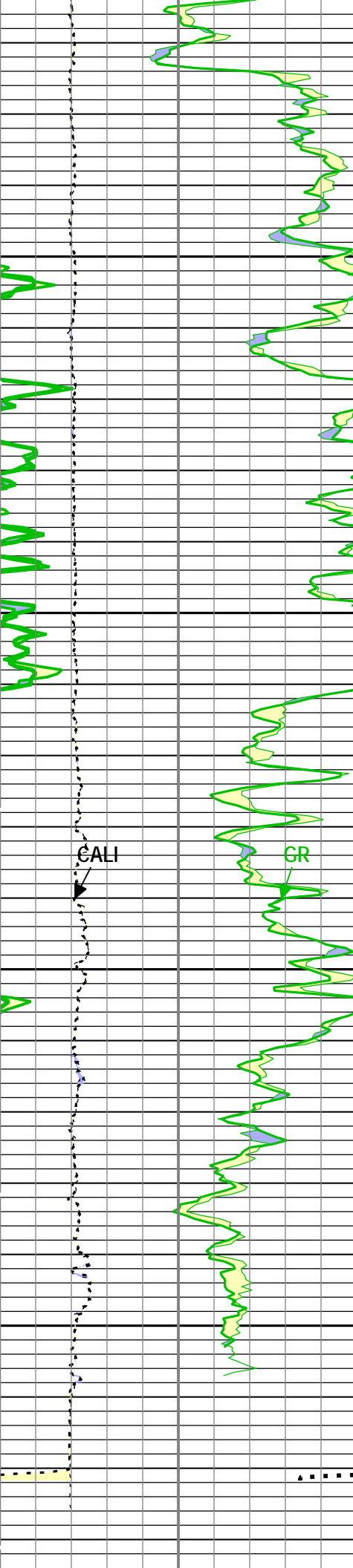


Diagram illustrating the relationship between Caliper (CALI) HDRS-H and Gamma Ray (GR) HGNS-H.

The top section shows Caliper (CALI) HDRS-H with a scale from 4 to 14, with "in" in the middle. The bottom section shows Gamma Ray (GR) HGNS-H with a scale from 200 to 400, with "gAPI" in the middle. Both sections have a blue bar labeled "Main To Repeat" and a yellow bar labeled "Repeat To Main".

[illegible]

— ICV - Integrated Cement Volume every 100.00 (ft3)

└ ICV - Integrated Cement Volume every 10.00 (ft3)

TIME_1900 - Time Marked every 60.00 (s)

—IHV - Integrated Hole Volume every 100.00 (ft3)

—IHV - Integrated Hole Volume every 10.00 (ft3)

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: 24-Nov-2014 20:38:58
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Calibration Report

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

Primary Equipment :

File code for AIT-MA Sonde Tool Element

AMIS

181

Auxiliary Equipment :

File code for AIT Bottom Nose Tool Element

AMRM

181

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM): 23:01:59 22-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.041	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	1.805	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.017	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.902	3.000	

		Before Before-Master	----- -----	0.804 -----	1.233 0.000	1.876 -----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 4	deg	Master Before Before-Master	----- ----- -----	125.000 125.000 -----	178.761 -179.880 -358.641	-115.000 -115.000 -----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 5	V	Master Before Before-Master	----- ----- -----	1.176 1.176 -----	1.795 1.795 0.000	2.744 2.744 -----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 5	deg	Master Before Before-Master	----- ----- -----	122.000 122.000 -----	177.104 178.470 1.366	-118.000 -118.000 -----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 6	V	Master Before Before-Master	----- ----- -----	1.176 1.176 -----	1.794 1.794 0.000	2.744 2.744 -----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 6	deg	Master Before Before-Master	----- ----- -----	121.000 121.000 -----	177.111 178.479 1.368	-119.000 -119.000 -----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 7	V	Master Before Before-Master	----- ----- -----	0.846 0.846 -----	1.294 1.294 0.000	1.974 1.974 -----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 7	deg	Master Before Before-Master	----- ----- -----	115.000 115.000 -----	176.348 177.802 1.454	-125.000 -125.000 -----	<div><div></div><div></div><div></div></div>
SPA Zero	mV	Master Before Before-Master	 -----	-50.000 -50.000 -----	0.145 0.126 -0.019	50.000 50.000 -----	<div><div></div><div></div><div></div></div>
SPA Plus	mV	Master Before Before-Master	 -----	941.000 941.000 -----	992.483 992.251 -0.232	1040.000 1040.000 -----	<div><div></div><div></div><div></div></div>
Temperature Zero	V	Master Before Before-Master	 -----	-0.050 -0.050 -----	0.000 0.000 0.000	0.050 0.050 -----	<div><div></div><div></div><div></div></div>
Temperature Plus	V	Master Before Before-Master	 -----	0.870 0.870 -----	0.919 0.919 0.000	0.960 0.960 -----	<div><div></div><div></div><div></div></div>

Company:	Omimex Petroleum Inc.	Schlumberger
Well:	Gueck 10-19-7-44	
Field:	Holyoke South	
County:	Weld	
State:	Colorado	
Platform Express Array Induction with Linear Correlation		