

Company: Southwestern Energy Production Company

Well: Diamond T Sheep 7 92 1 26

Field: Sand Wash Basin Niobrara

County: Moffat Country: US

Platform Express
Triple Combo

County: Moffat
Field: Sand Wash Basin Niobrara
Location: SHL: 660' FNL & 930' FWL
Well: Diamond T Sheep 7 92 1 26
Company: Southwestern Energy Production Company

Location:		SHL: 660' FNL & 930' FWL	Elev.:	K.B.	6702.00 ft
Permanent Datum:		Ground Level	Elev.:	G.L.	6680.00 ft
Log Measured From:		Kelly Bushing	22.00 ft	D.F.	6702.00 ft
Drilling Measured From:		Kelly Bushing			above Perm.Datum
API Serial No.	Max.Hole Deviation	Longitude:	Latitude:		
05-081-07804	0 deg	-107.69303 degrees	40.534283 degrees		

Logging Date	28-Sep-2014	28-Sep-2014
Run Number	ONE	TWO
Depth Driller	9900.00 ft	9900.00 ft
Schlumberger Depth	9900.00 ft	9900.00 ft
Bottom Log Interval	9900.00 ft	9900.00 ft
Top Log Interval	5682.00 ft	5682.00 ft
Casing Driller Size @ Depth	9.625 in @ 5681.00 ft	9.625 in @ 5681.00 ft
Casing Schlumberger	5682 ft	5682 ft
Bit Size	8.75 in	8.75 in
Type Fluid In Hole	Oil	Oil
Density	11.7 lbm/gal	10 lbm/gal
Fluid Loss	PH 4.2 cm3	4.2 cm3
MUD		
Source of Sample	N/A	N/A
RM @ Meas Temp	N/A	N/A
RMF @ Meas Temp	N/A	N/A
RMC @ Meas Temp	N/A	N/A
Source RMF	N/A	N/A
RM @ BHT	N/A	N/A
RMF @ BHT	N/A	N/A
Max Recorded Temperatures	229 degF	229 degF
Circulation Stopped	Time 27-Sep-2014	08:00:00
Logger on Bottom	Time 28-Sep-2014	12:00:39
Unit Number	Location: 9108	Fort Morgan
Recorded By	E Meadows/M Pace	Fort Morgan
Witnessed By	Sweta Bose	Sweta Bose

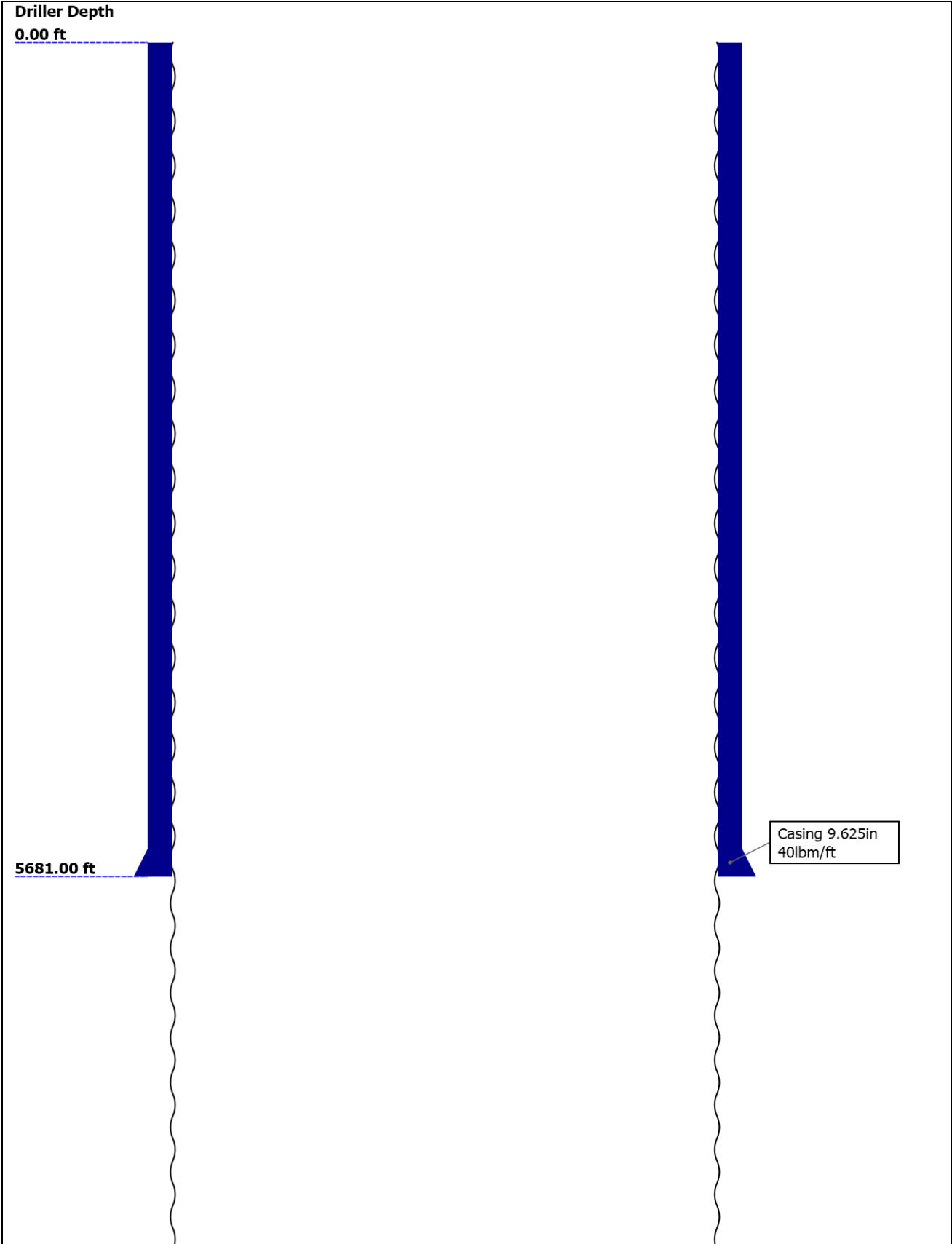
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Well Sketch





Borehole Size/Casing/Tubing Record						
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Bit						
Bit Size (in)	8.75					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	9900					
Bottom Logger (ft)	9900					
Casing						
Size (in)	9.625					
Weight (lbm/ft)	40					
Inner Diameter (in)	8.835					
Grade	J55					
Top Driller (ft)	0					
Top Logger (ft)	0					
Bottom Driller (ft)	5681					
Bottom Logger (ft)	5682					

Operational Run Summary						
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Parameter (unit)	ONE	TWO				
Date Log Started	28-Sep-2014	28-Sep-2014				
Time Log Started	00:30:09	19:09:24				
Date Log Finished	28-Sep-2014	29-Sep-2014				
Time Log Finished	16:50:10	00:49:44				
Top Log Interval (ft)	5682.00	5682.00				
Bottom Log Interval (ft)	9900.00	9900.00				
Total Depth (ft)						
Max Hole Deviation (deg)	0.00	0.00				
Azimuth of Max Deviation (deg)	0.00	0.00				
Bit Size (in)	8.750	8.750				
Logging Unit Number	9108	9108				
Logging Unit Location	Fort Morgan	Fort Morgan				
Recorded By	E Meadows/M Pace	E Meadows/M Pace				
Witnessed By	Sweta Bose	Sweta Bose				

Service Order Number	CA0R-00117	CA0R-00117				
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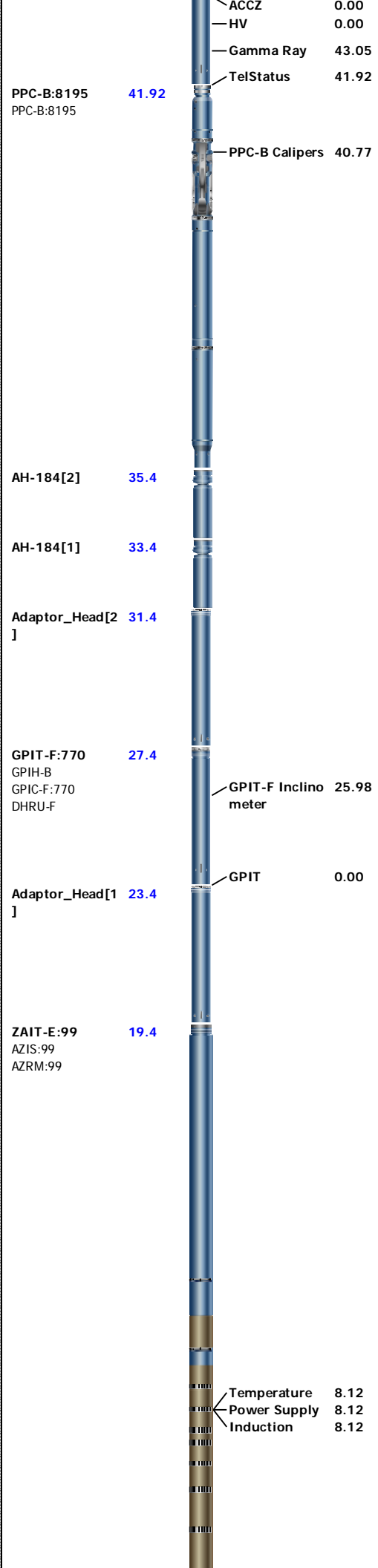
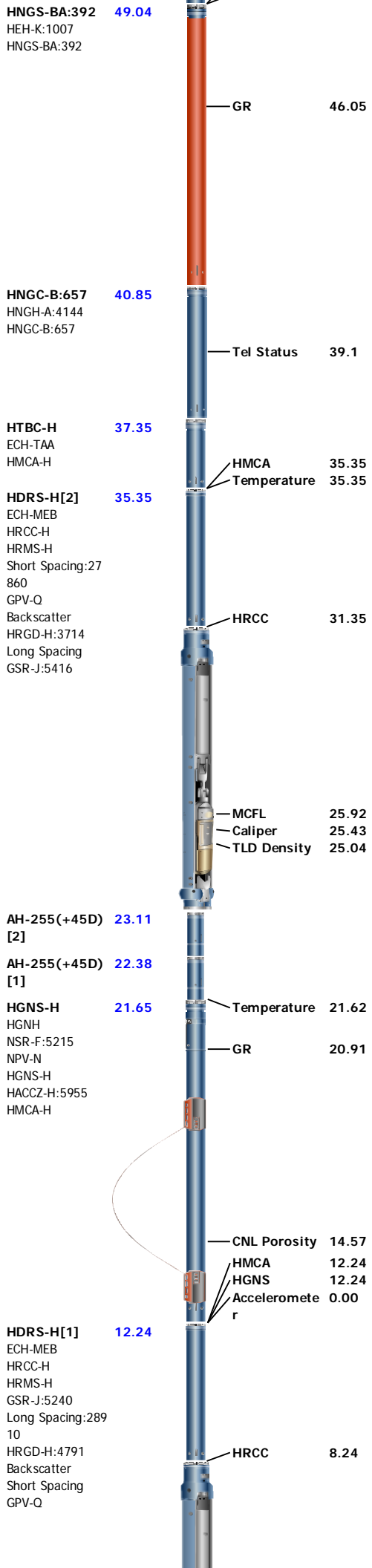
Borehole Fluids						
Parameter(unit)	ONE	TWO				
Fluid Type	Oil	Oil				
Max Recorded Temperatures (degF)	229	229				
Source of Sample	Active Tank	Active Tank				
Salinity (ppm)	30000	30000				
Density (lbm/gal)	11.7	10				
Funnel Viscosity (s)	48	48				
Fluid Loss (cm3)	4.2	4.2				
PH						
Date/Time Circulation Stopped	27-Sep-2014 08:00:00	27-Sep-2014 08:00:00				
Date Logger on Bottom	28-Sep-2014	28-Sep-2014				
Time Logger on Bottom	12:00:39	20:50:13				
Source RMF						
RMC	Pressed	Pressed				
RM @ Meas Temp (ohm.m@degF)	N/A	N/A				
RMF @ Meas Temp (ohm.m@degF)	N/A	N/A				
RMC @ Meas Temp (ohm.m@degF)	N/A	N/A				
RM @ BHT (ohm.m@degF)	N/A	N/A				
RMF @ BHT (ohm.m@degF)	N/A	N/A				
RMC @ BHT (ohm.m@degF)	N/A	N/A				
Electricity Stability (V)						
Oil/Water	82/18 (4.50)	82/18 (4.50)				
Total Solid (%)	16	16				
High Gravity Solids (%)	13.8	13.8				

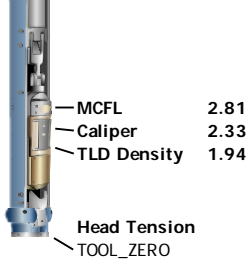
Remarks and Equipment Summary

1. THIS IS THE SECOND RUN IN THE WELL.
2. TOOL RAN AS PER TOOL SKETCH.
3. MATRIX: LIMESTONE MDEN: 2.71 G/ML
4. NEUTRON CORRECTIONS: BOREHOLE (BS), STANDOFF (0.125"), PRESSURE/TEMPERATURE
5. WASHOUTS MAY ADVERSELY AFFECT LOGS.
6. TD: 9,900' CSG: 5,682'

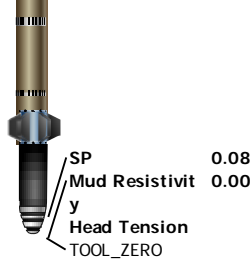
ONE: Remarks	TWO: Remarks
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ONE: Toolstring				TWO: Toolstring			
Equip name	Length	MP name	Offset	Equip name	Length	MP name	Offset
LEH-QT LEH-QT	54.96			LEH-QT LEH-QT	51.33		
DTC-H ECH-KC DTC-H	52.04	CTEM HV	51.14 0.00	EDTC-B EDTH-B EDTG-A EDTC-B	48.42	CTEM	44.92
		TelStatus ToolStatus	49.04 49.04				





Lengths are in ft
Maximum Outer Diameter = 4.700 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO



Lengths are in ft
Maximum Outer Diameter = 5.000 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Depth Summary

	ONE	TWO	
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Depth Measuring Device

Type	IDW-B	IDW-B	
Serial Number			
Calibration Date			
Calibrator Serial Number			
Calibration Cable Type			
Wheel Correction 1	0	0	
Wheel Correction 2	0	0	

Tension Device

Type	CMTD-B/A	CMTD-B/A	
Serial Number			
Calibration Date			
Calibrator Serial Number			
Number of Calibration Points	0	0	

Logging Cable

Type	7-46A-XS	7-46A-XS	
Serial Number			
Length	21000.00 ft	21000.00 ft	
Conveyance Type	Wireline	Wireline	
Rig Type	Triple	Triple	

ONE:Depth Control Parameters

Log Sequence	First Log In the Well	1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES WERE FOLLOWED DURING LOGGING OPERATIONS 2. IDW USED AS PRIMARY DEPTH CONTROL MEASURE. 3. Z CHART USED AS SECONDARY DEPTH CONTROL MEASURE. 4. TD: 9,692' CSG: 2,335' 5. STRETCH CORRECTION: 8.6'
Rig Up Length At Surface		
Rig Up Length At Bottom		
Rig Up Length Correction		
Stretch Correction		
Tool Zero Check At Surface		

TWO:Depth Control Parameters

Log Sequence	First Log In the Well	
Rig Up Length At Surface		
Rig Up Length At Bottom		
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 :	40.534283 degrees	Longitude :	-107.69303 degrees
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Tie In Point

Measured Depth:	0.00 ft	Inclination:	0.00 deg	Azimuth:	0.00 deg
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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
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

Composite 3

Software Version	
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Acquisition System	Version
MaxWell	4.0.9163.3000
Application Patch	Patch-SP-10767_22480-4.0.9163.3001

Computation	Description	Version
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels	4.0.9469.3000
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections	4.0.9469.3000
DepthCorrection	DepthCorrection	4.0.9469.3000

Tool Elements	Description	Software Version	Firmware Version
AZIS	Array Induction Sonde - Z	4.0.9469.3000	
HRCC-H	HILT High-Resolution Control Cartridge, 150 degC	4.0.9486.3000	
LEH-QT	Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor	4.0.9469.3000	
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC	4.0.9486.3000	
HRGD-H	HILT Resistivity Gamma-Ray Density Device, 150 degC	4.0.9486.3000	

Composite Summary	
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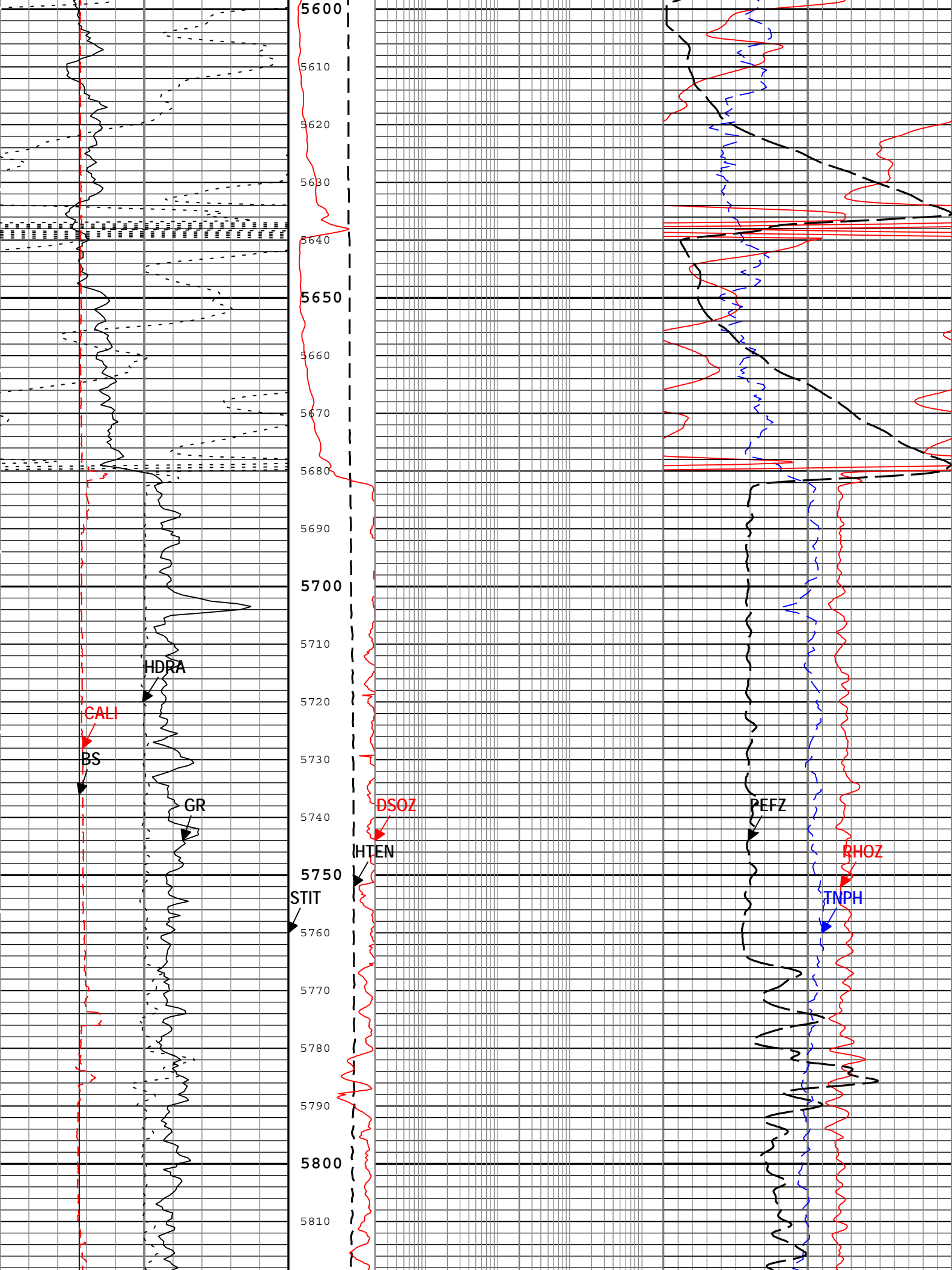
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
ONE	Main[5]:Up	Up	5547.46 ft	9919.53 ft	28-Sep-2014 2:01:51 PM	28-Sep-2014 4:30:27 PM	ON	1.82 ft	Yes
ONE	Repeat[6]:Up	Up	5587.93 ft	6006.83 ft	28-Sep-2014 4:34:33 PM	28-Sep-2014 4:49:22 PM	ON	1.30 ft	Yes
TWO	Log[2]:Up	Up	7000.97 ft	9915.68 ft	28-Sep-2014 8:39:52 PM	28-Sep-2014 10:17:27 PM	ON	1.56 ft	No
TWO	Main[3]:Up	Up	5939.89 ft	7302.28 ft	28-Sep-2014 10:23:38 PM	29-Sep-2014 12:01:16 AM	ON	0.94 ft	No

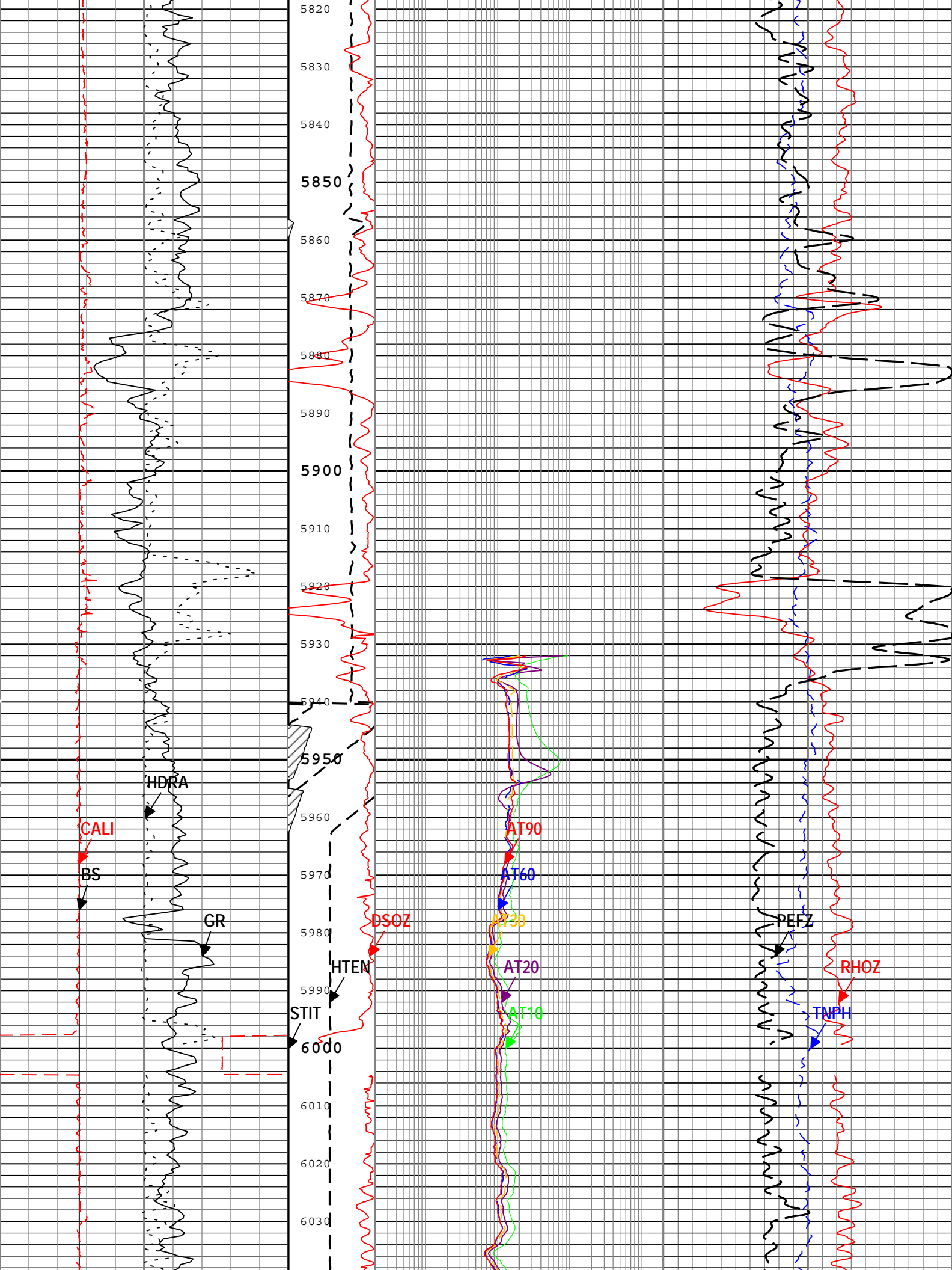
All depths are referenced to toolstring zero
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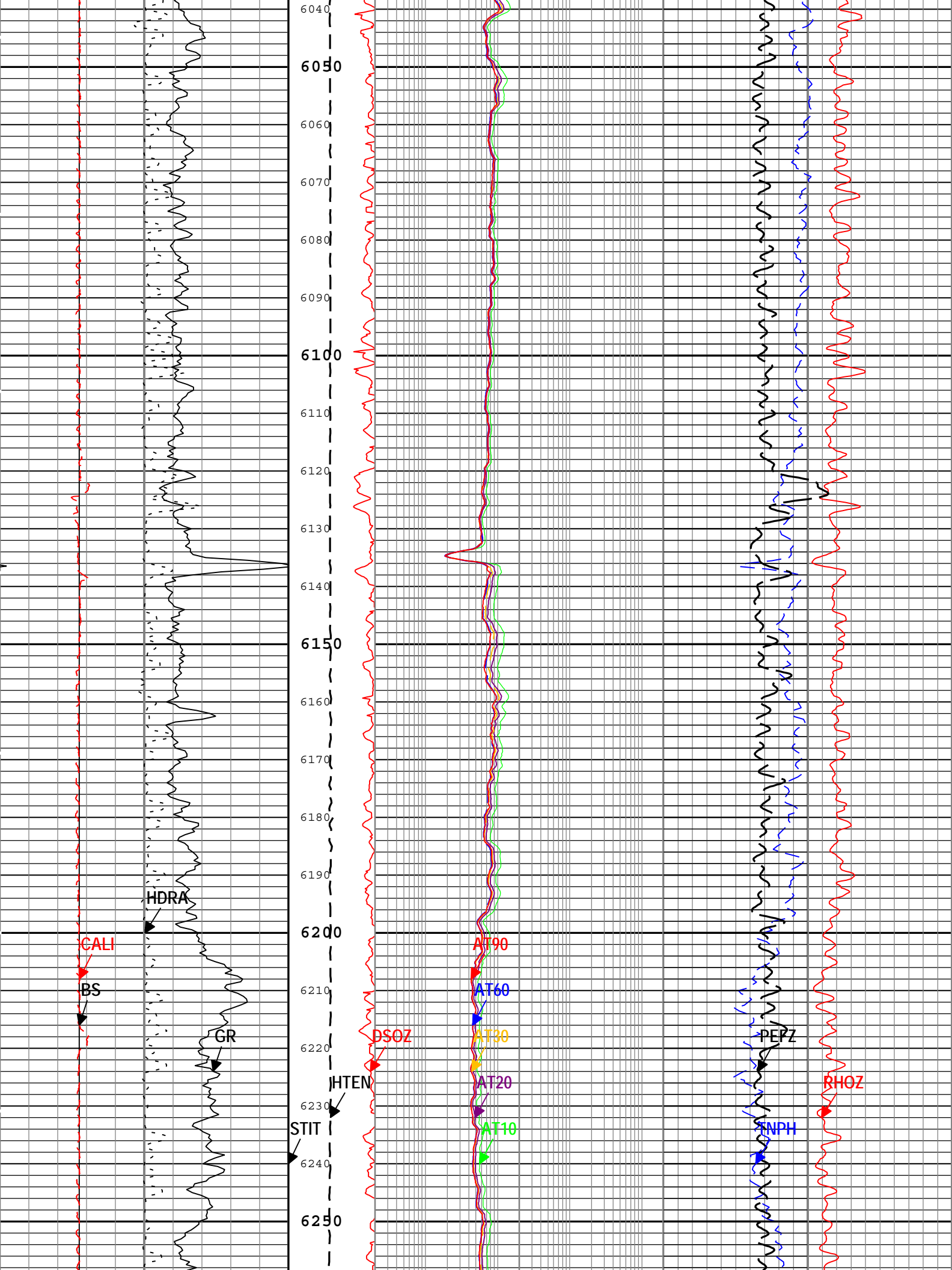
Log	Company:Southwestern Energy Production Company	Well:Diamond T Sheep 7 92 1 26
		Composite 3:S019

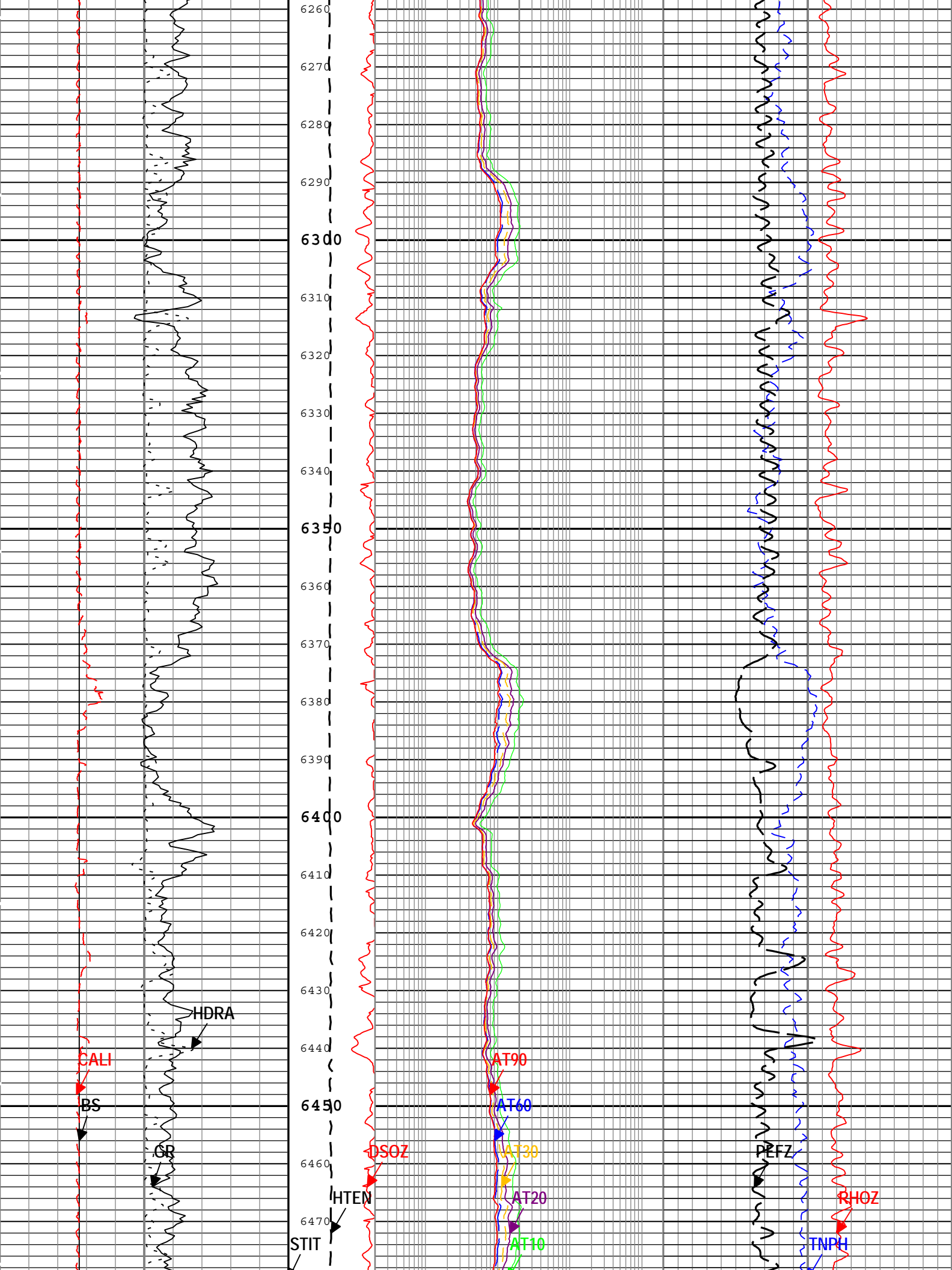
Description: HGNS standard resolution porosities for Platform Express	Format: Log (EMD 5in Triple Combo Linear)	Index Scale: 5 in per 100 ft	Index Unit: ft	Index Type: Measured Depth	Creation Date: 29-Sep-2014 08:02:50
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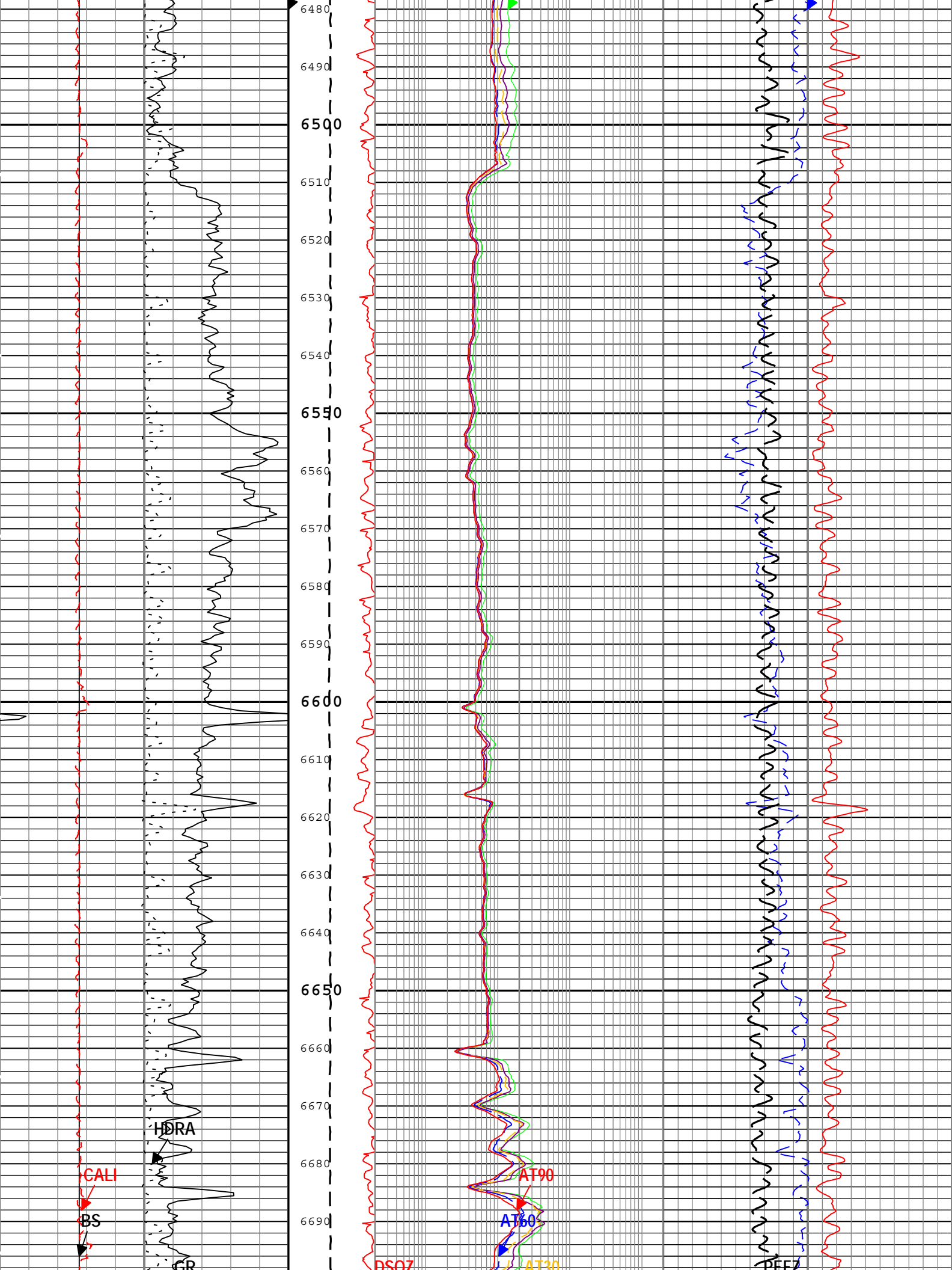
Channel	Source	Sampling
AT10	AIT_SpliceGroup[1]:AZIS[1]:AZIS[1]	3in
AT20	AIT_SpliceGroup[1]:AZIS[1]:AZIS[1]	3in
AT30	AIT_SpliceGroup[1]:AZIS[1]:AZIS[1]	3in
AT60	AIT_SpliceGroup[1]:AZIS[1]:AZIS[1]	3in
AT90	AIT_SpliceGroup[1]:AZIS[1]:AZIS[1]	3in
BS	Borehole	6in
CALI	HDRS[1]:HRCC-H[1]:HRCC-H[1]	1in
DSOZ	HDRS[1]:HRMS-H[1]:HRGD-H[1]	2in

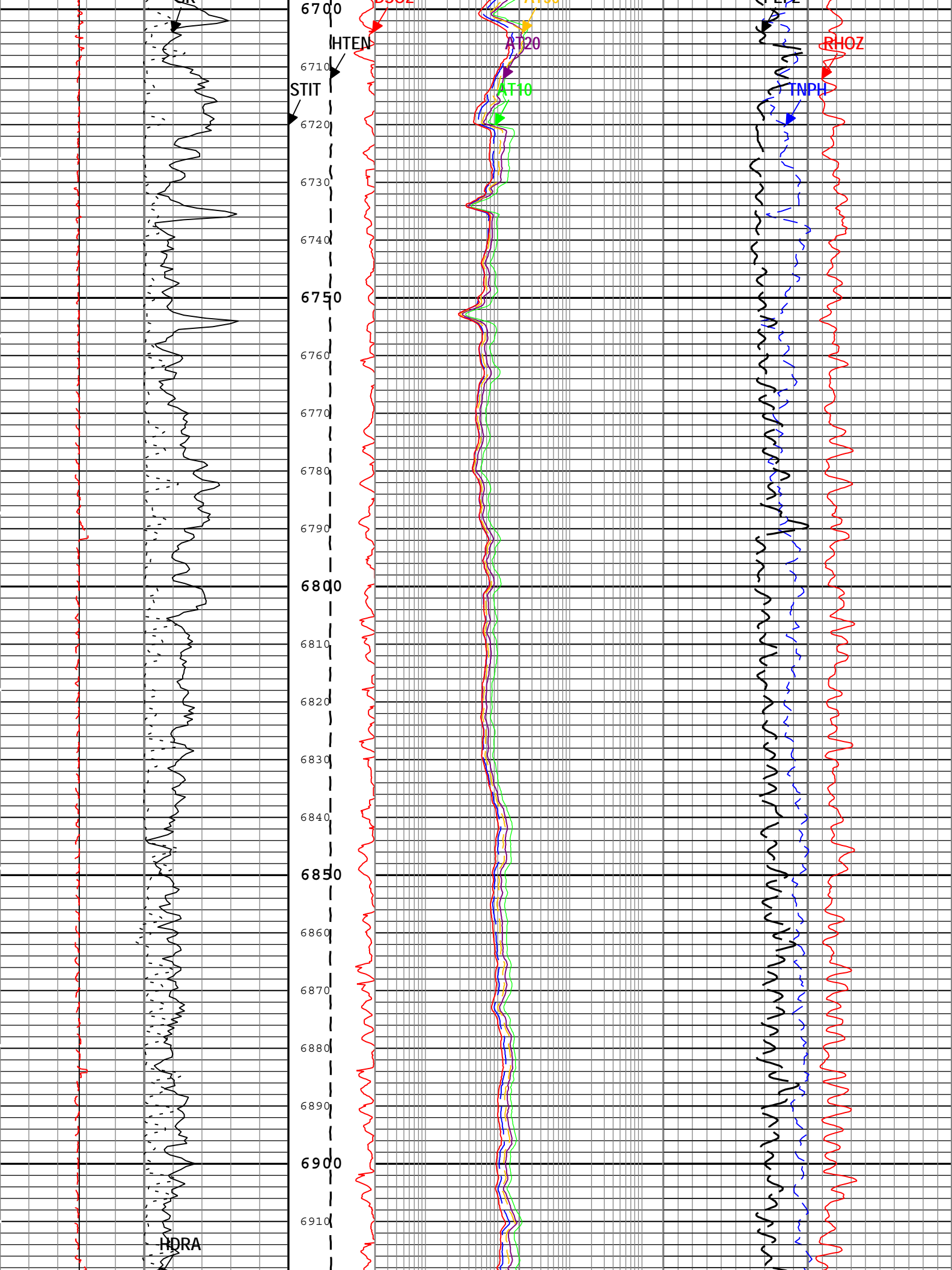


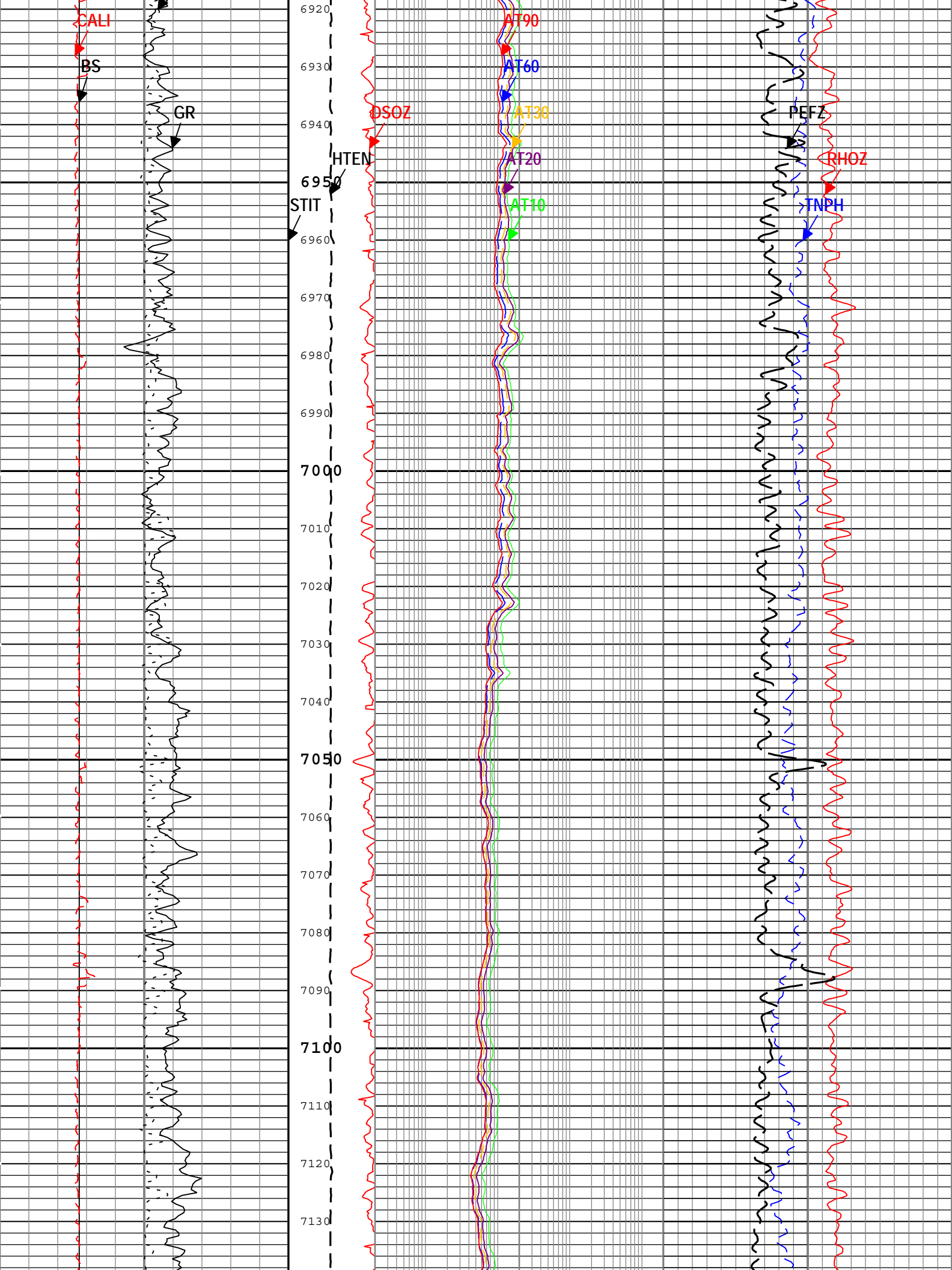


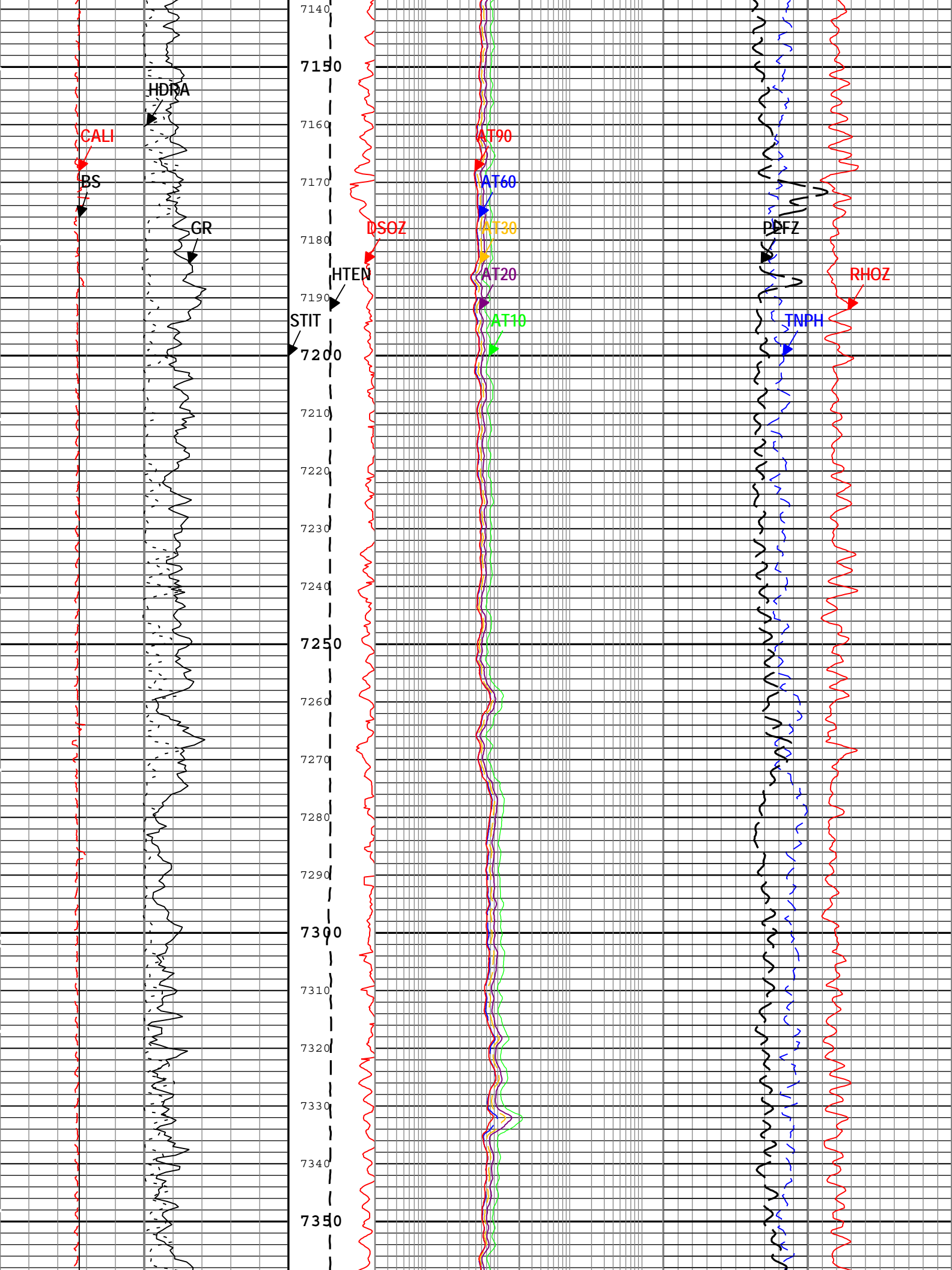


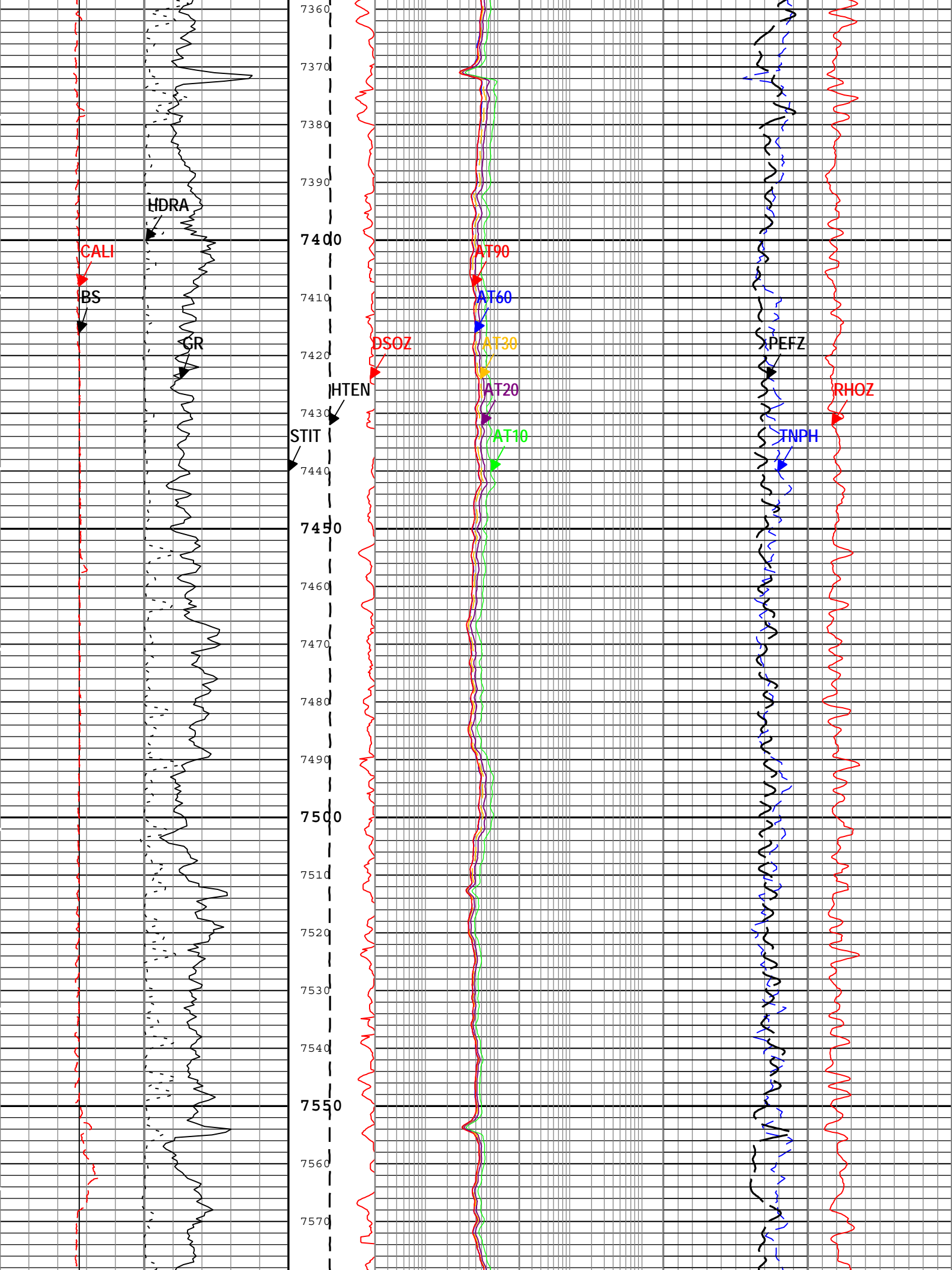


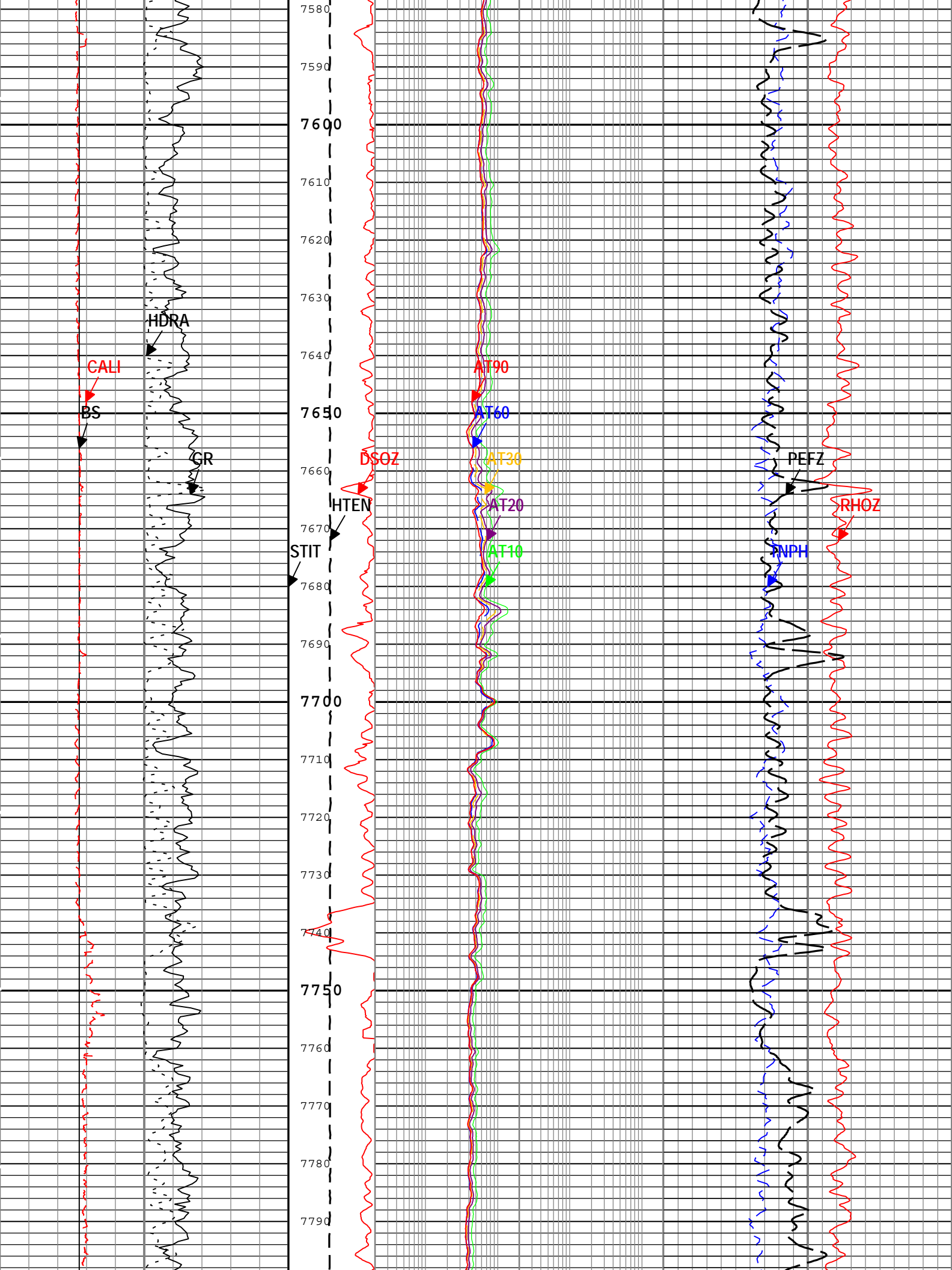


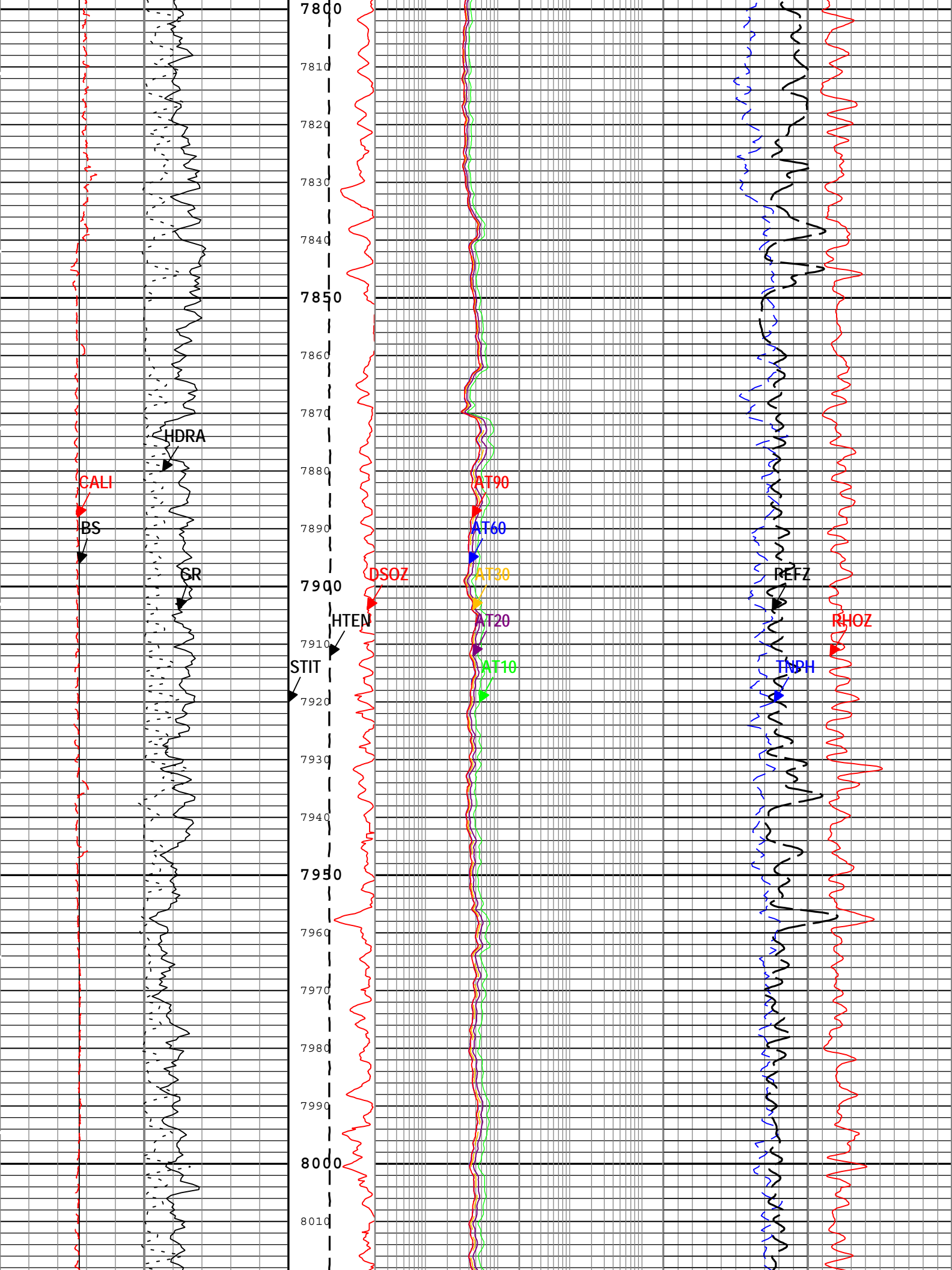


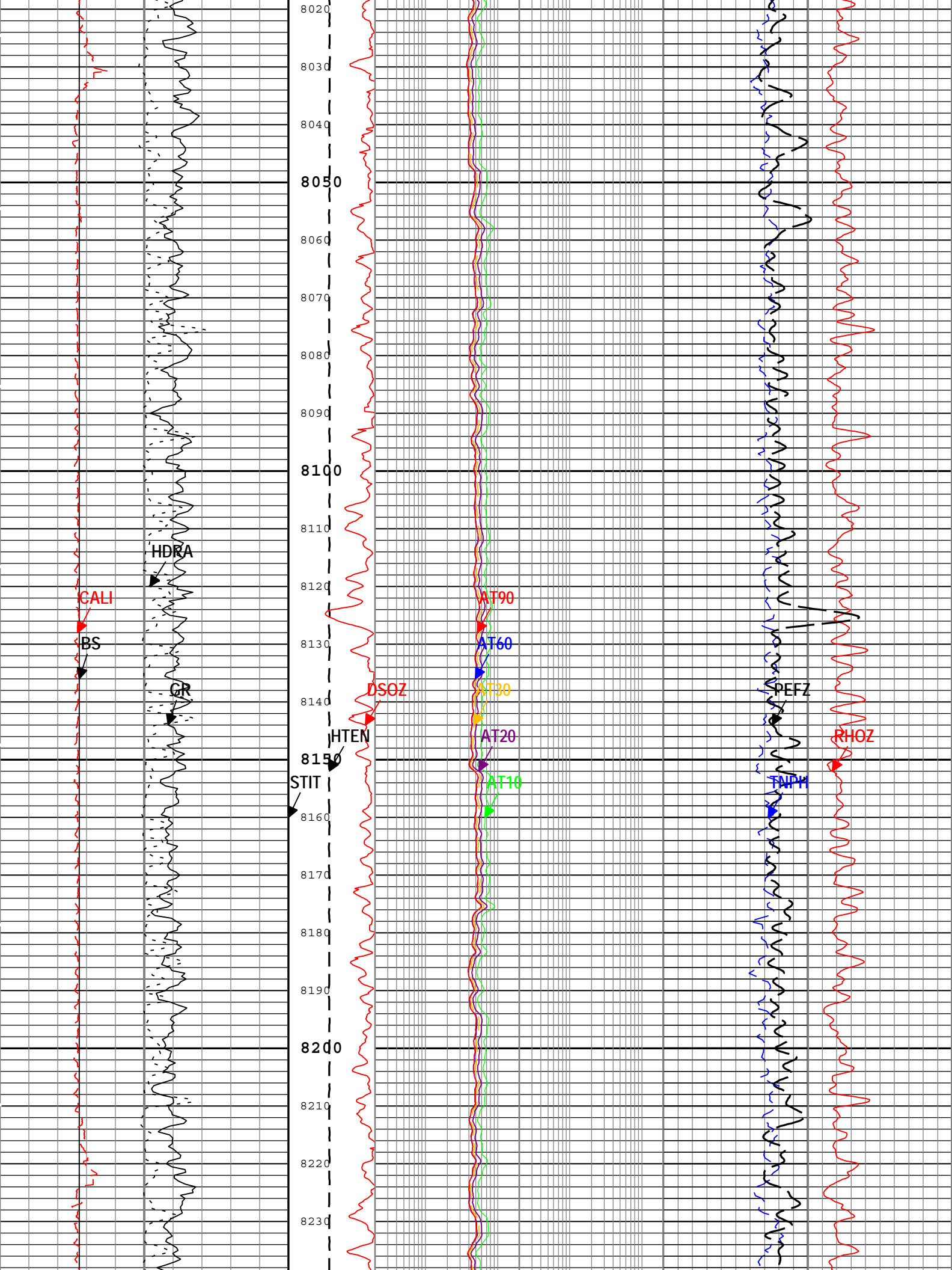


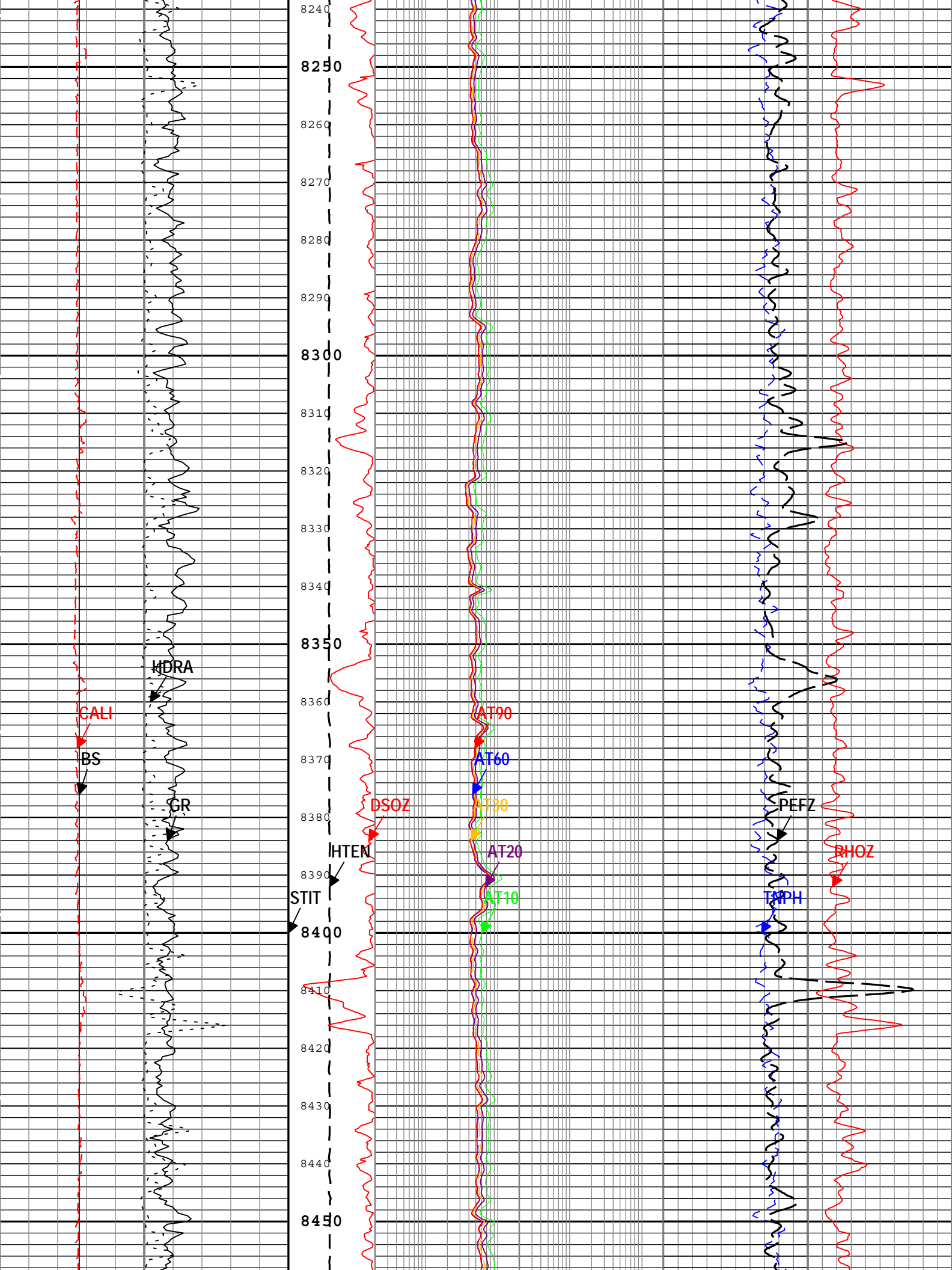


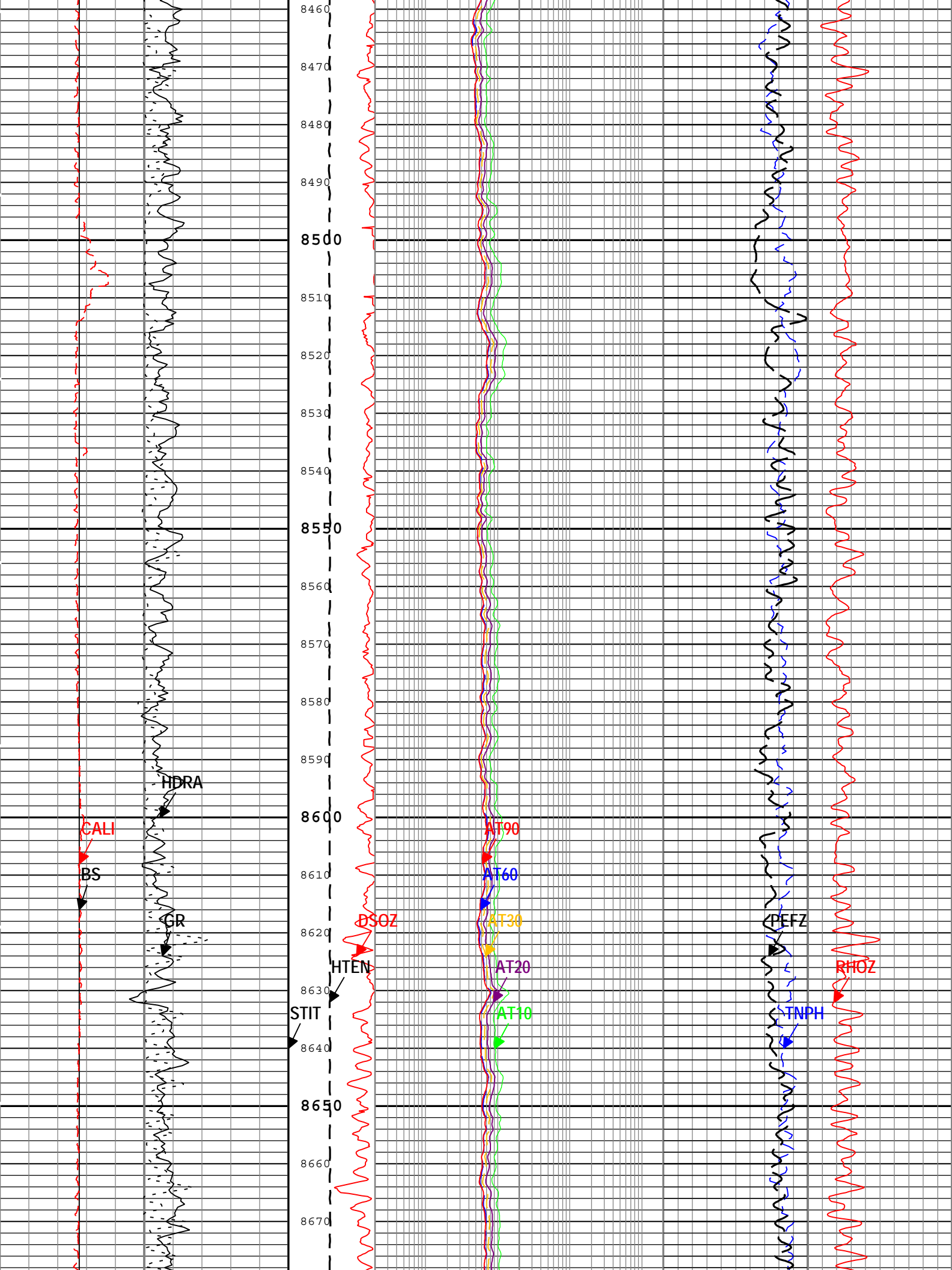


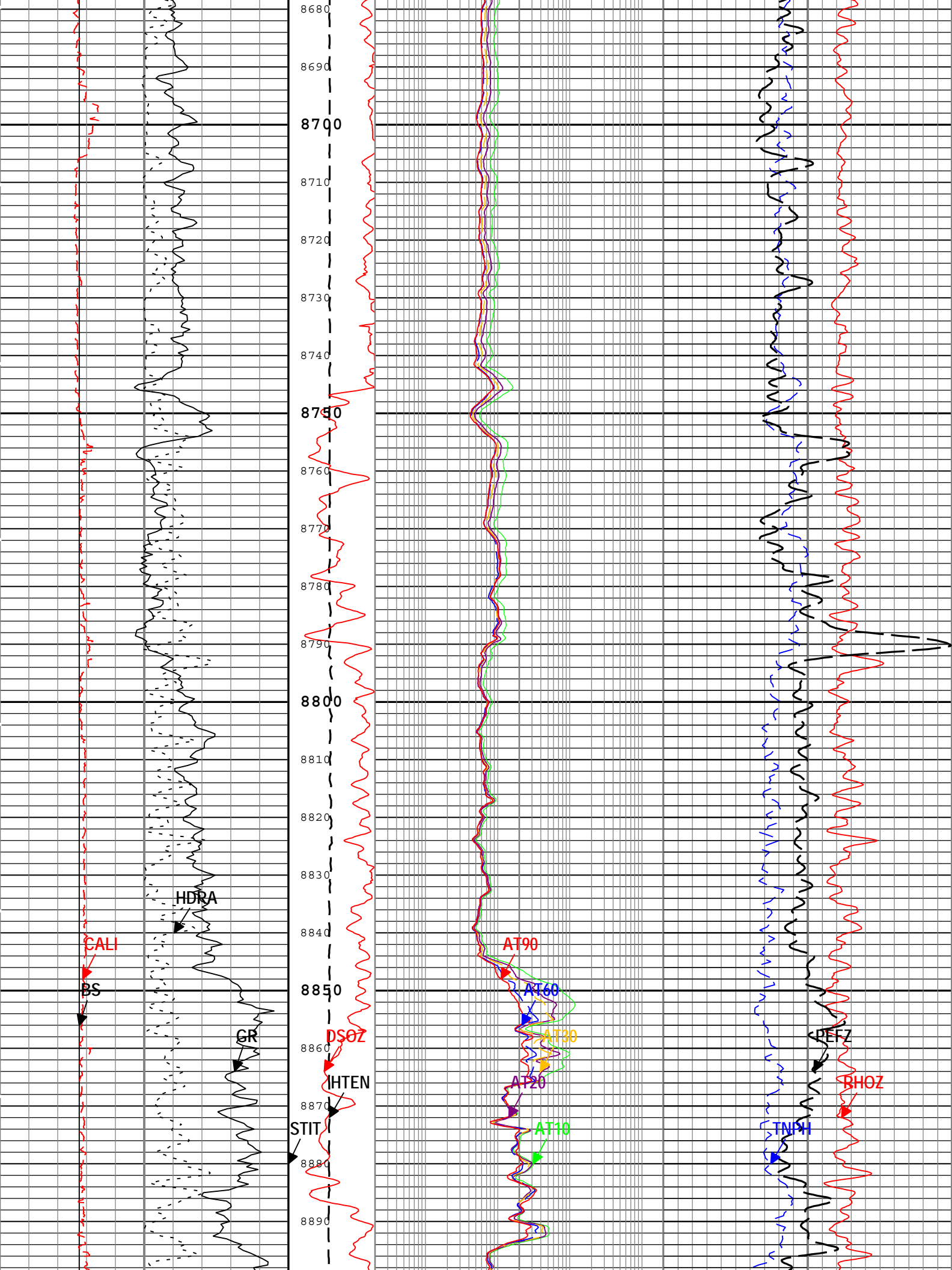


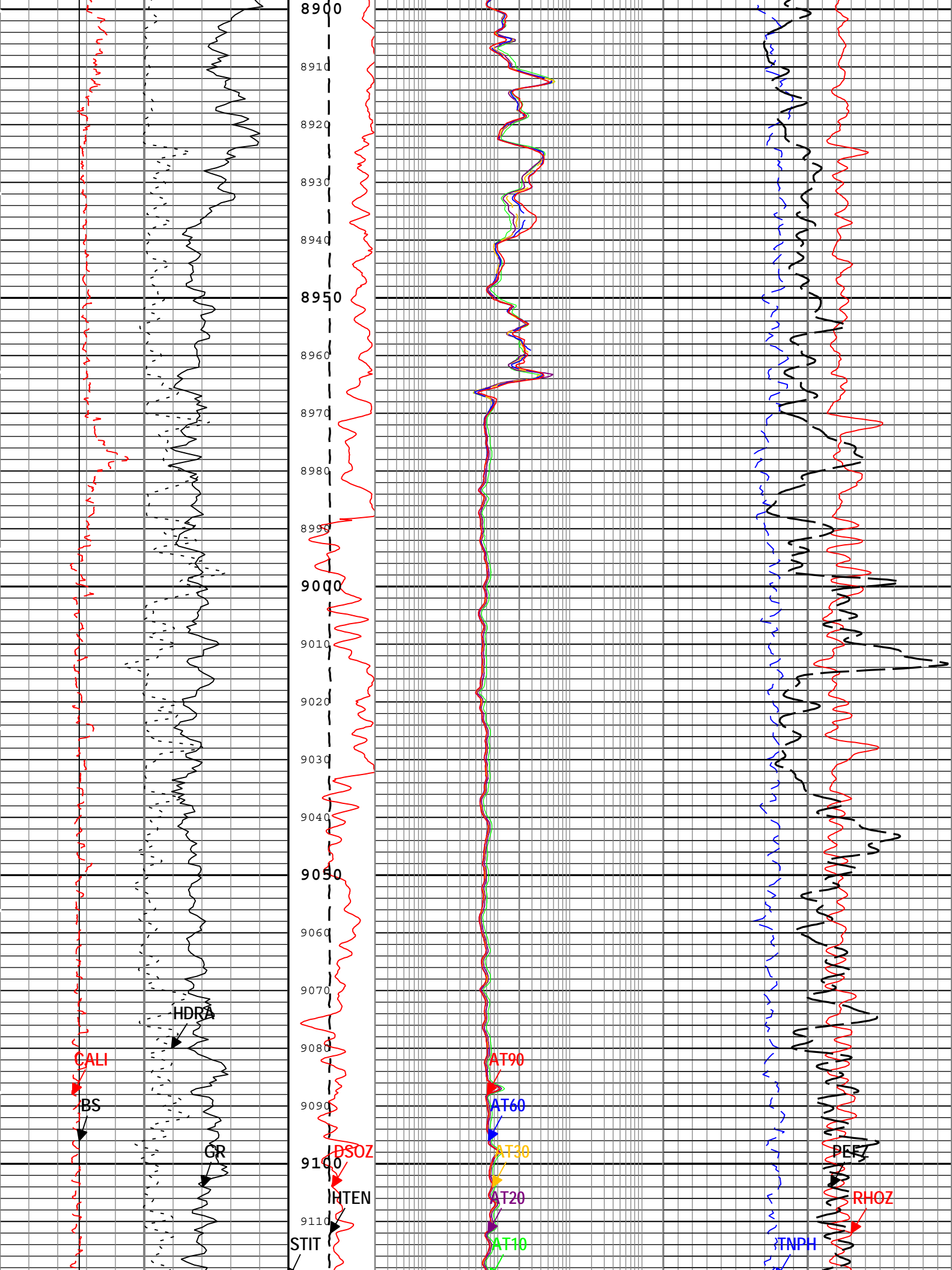


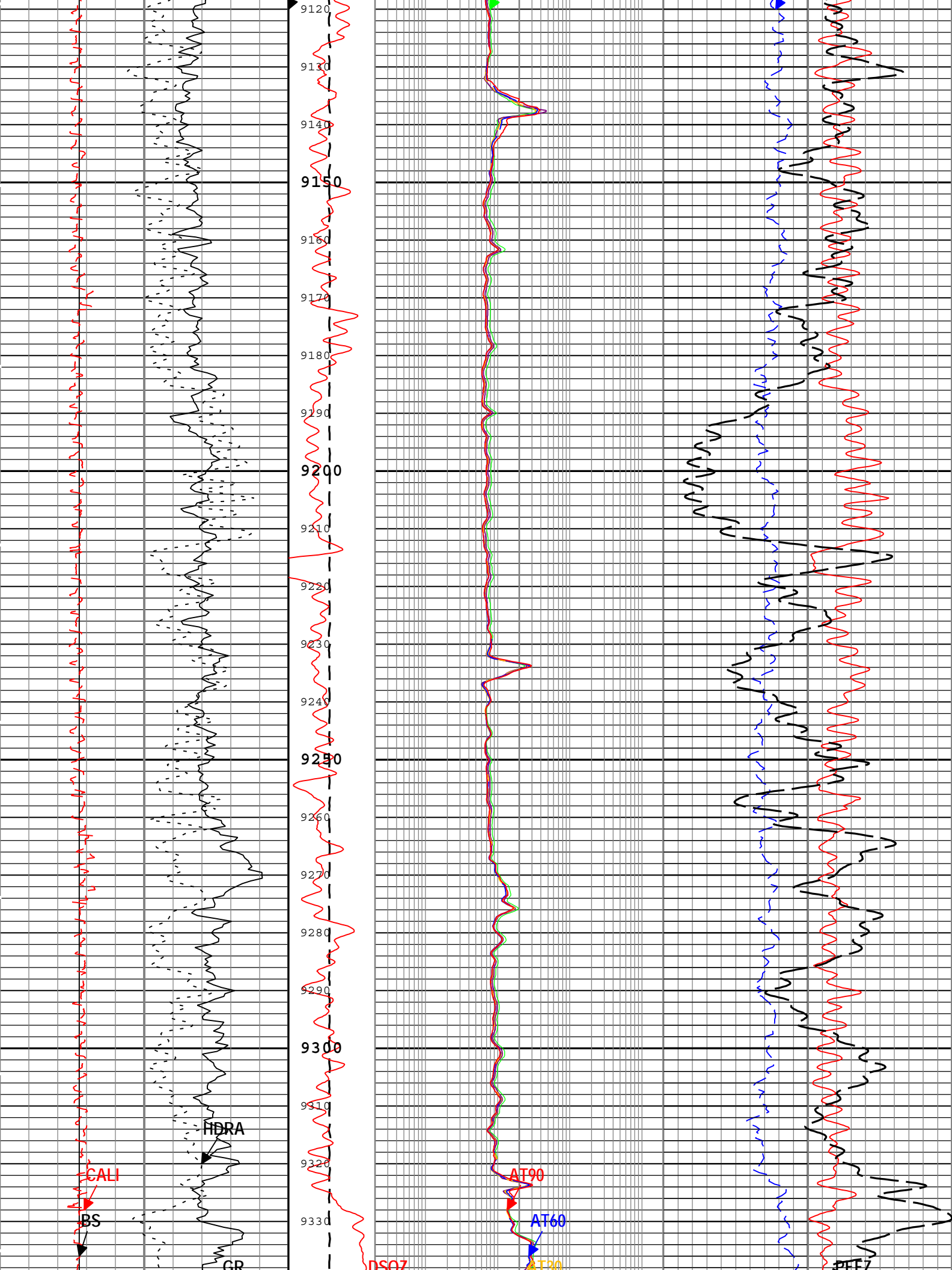


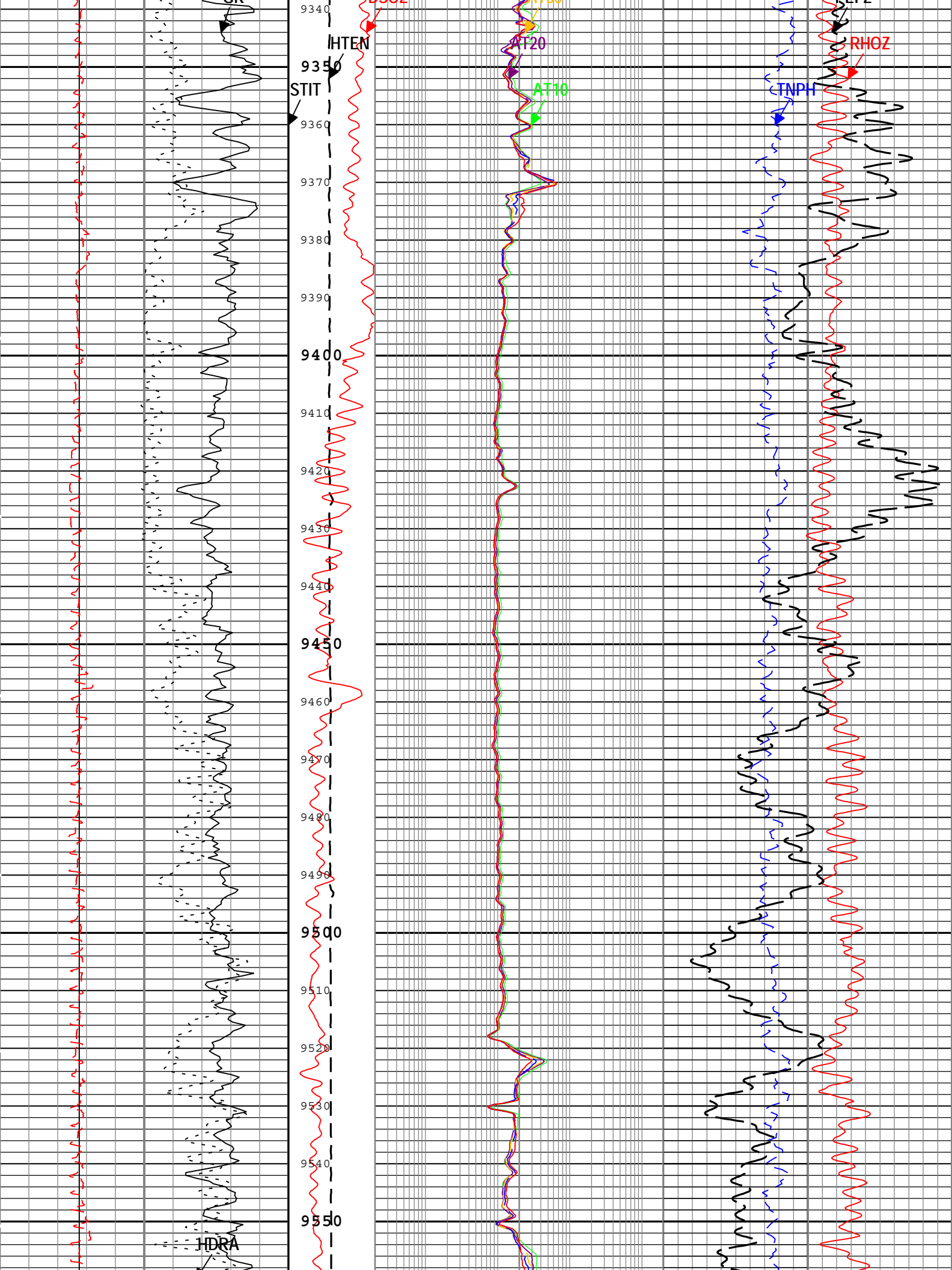


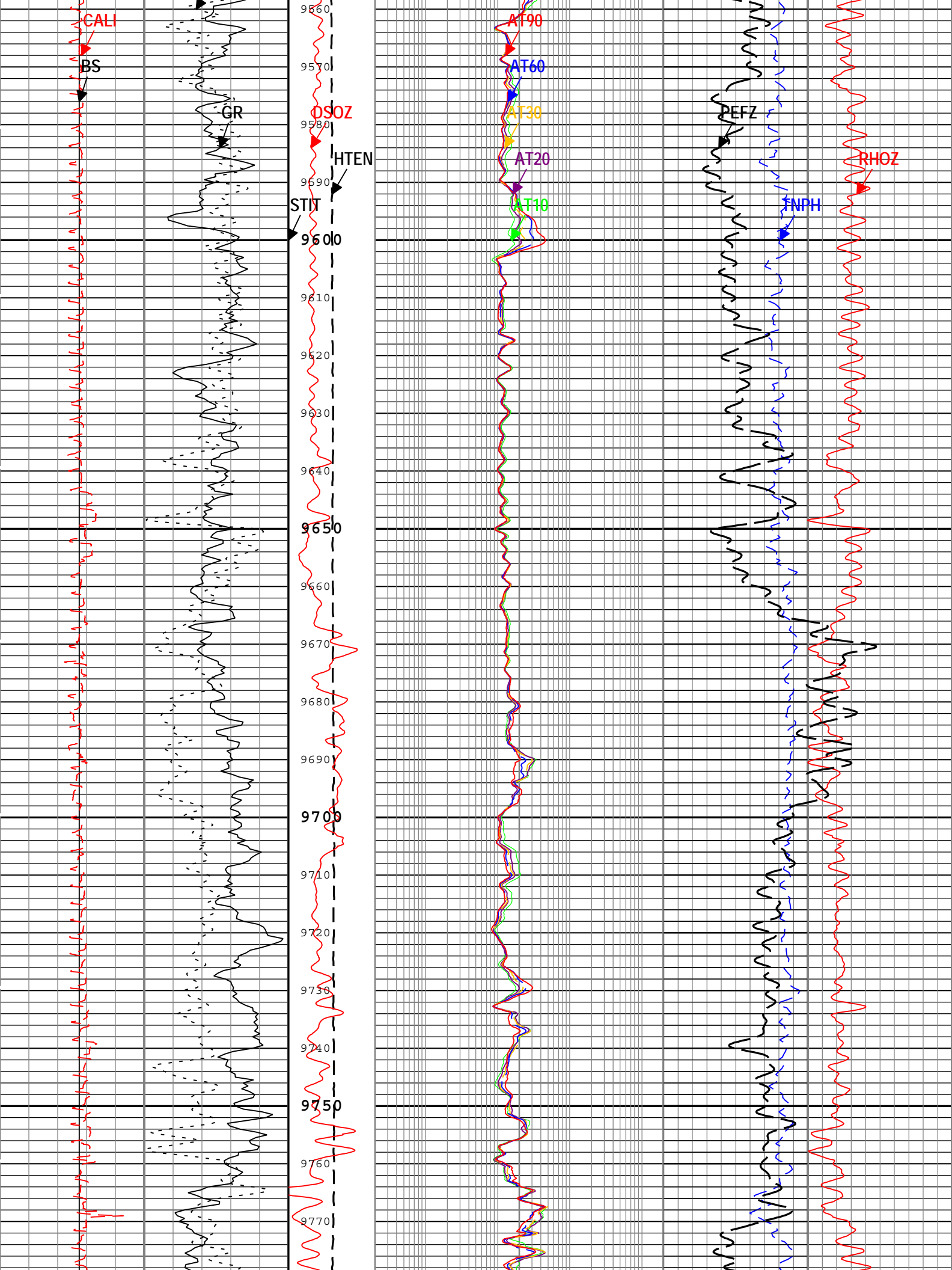


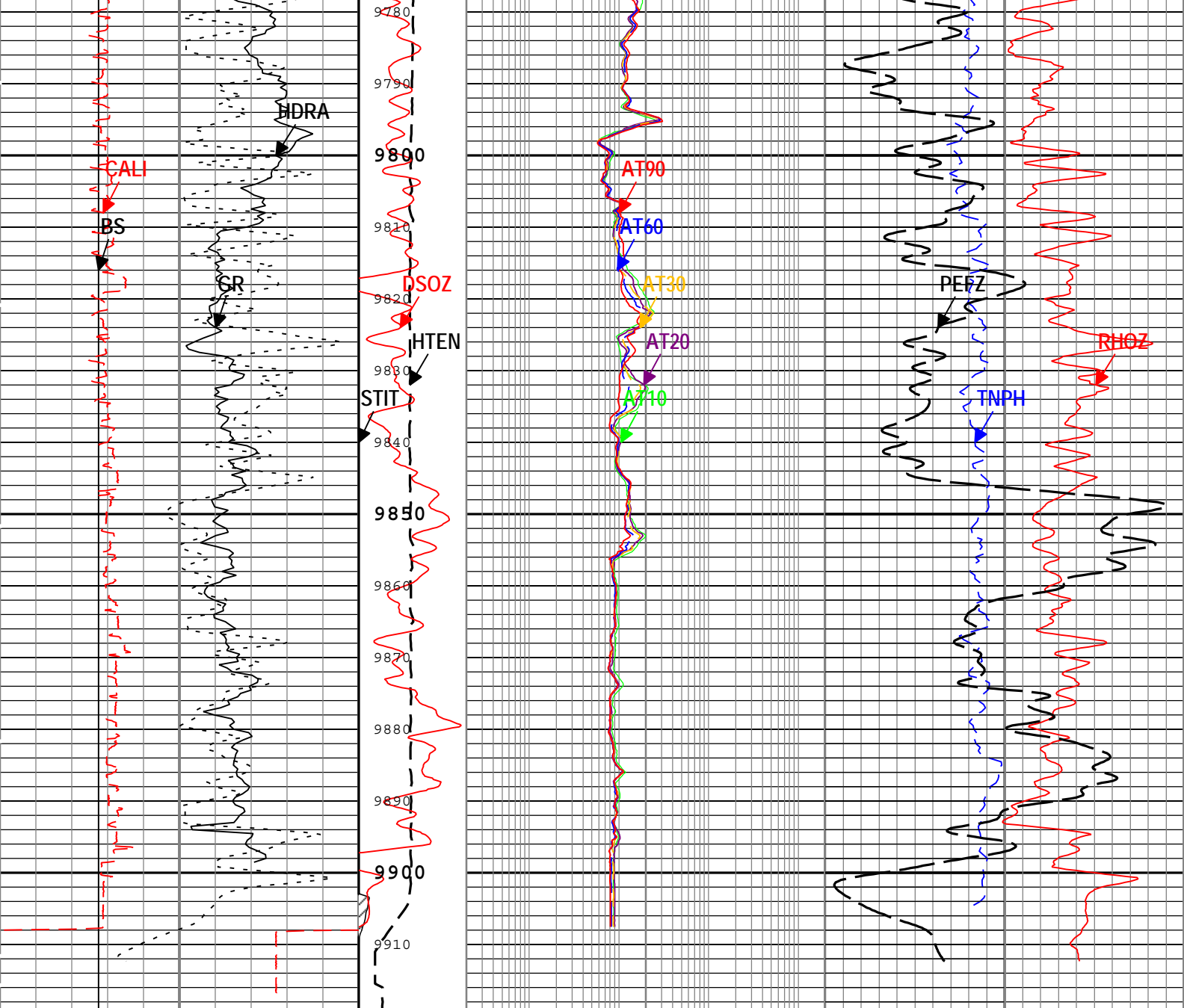












Gamma Ray (GR) HGNS[1]		Stuck Tool Indicator, Total (STIT)		Array Induction Two Foot Resistivity A10 (AT10) AIT_SpliceGroup[1]		Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) HGNS[1]	
0	gAPI	150	0 ft 50	0.2	ohm.m	2000	0.45 ft3/ft3 -0.15
Bit Size (BS)				Array Induction Two Foot Resistivity A20 (AT20) AIT_SpliceGroup[1]		Standard Resolution Formation Density (RHOZ) HDRS[1]	
6	in	16		0.2	ohm.m	2000	2 g/cm3 3
Caliper (CALI) HDRS[1]			Head Tension (HTEN) LEH-QT[1]	Array Induction Two Foot Resistivity A30 (AT30) AIT_SpliceGroup[1]		Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS[1]	
6	in	16	-200 lbf 1800	0.2	ohm.m	2000	0 10
Density Standoff Correction (HDRA) HDRS[1]				Array Induction Two Foot Resistivity A60 (AT60) AIT_SpliceGroup[1]			
-0.25	g/cm3	0.25		0.2	ohm.m	2000	
			Standard Resolution Density Standoff (DSOZ) HDRS[1]	Array Induction Two Foot Resistivity A90 (AT90) AIT_SpliceGroup[1]			
			0.5 in 0	0.2	ohm.m	2000	

Channel Processing Parameters	
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ONE: Parameters

Parameter	Description	Tool	Value	Unit
BARI	Barite Mud Presence Flag	Borehole	Yes	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	229	degF
BS	Bit Size	WLSESSION	8.75	in
BSAL	Borehole Salinity	Borehole	30000	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H	0.575	in
CBLO	Casing Bottom (Logger)	WLSESSION	5682	ft
CDEN	Cement Density	HGNS-H	2	g/cm3
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	11.7	lbm/gal
DFT	Drilling Fluid Type	Borehole	Oil	
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	REMS	
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	
PTCO	Pressure Temperature Correction Option	HGNS-H	Yes	
SOCO	Standoff Correction Option	HGNS-H	Yes	

TWO: Parameters

Parameter	Description	Tool	Value	Unit
ABHME	Array Induction Extended Borehole Correction Mode	ZAIT-E	Compute OBM Plus Dip Normal	
ACDE	Array Induction Casing Detection Enable	ZAIT-E	No	
AROT	Array Induction Rotation Selector	ZAIT-E	North	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	8.75	in
CBLO	Casing Bottom (Logger)	WLSESSION	5682	ft
DFT	Drilling Fluid Type	Borehole	Oil	
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	HD1	
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	AMF	
ICMO	Inclinometry Computation Mode	GPIT-F	Automatic Selection	
LOG_SPEED_RNG	Logging Speed Range	GPIT-F	Normal (600 ft/h - 3600 ft/h)	
USER_LOCB	User-supplied values for Magnetic Flux Density	WLSESSION	52407.98	nT
USER_MDEC	User-supplied values for Magnetic Declination	WLSESSION	10.03	deg
USER_MDIP	User-supplied values for Magnetic Dip Angle	WLSESSION	66.54	deg

Tool Control Parameters	
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ONE: Parameters

Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
HTEN_CALI	Head Tension Calibration Method	LEH-QT	Calibration	

HTEN_MULTIPL	Head Tension Multiplier or Manual Gain	LEH-QT	1	
HTEN_SHIFT	Head Tension Shift or Manual Offset	LEH-QT	0	lbf
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h

TWO: Parameters

Parameter	Description	Tool	Value	Unit
HTEN_CALI	Head Tension Calibration Method	LEH-QT	Calibration	
HTEN_MULTIPL	Head Tension Multiplier or Manual Gain	LEH-QT	1	
HTEN_SHIFT	Head Tension Shift or Manual Offset	LEH-QT	0	lbf
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	3600	ft/h

Calibration Report

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

Primary Equipment :

HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	4791

Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28910
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5240
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): 17:39:33 25-Sep-2014 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	8.32	10.00	
Large Ring	in	Before	12.00	9.00	12.61	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 20:22:40 17-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.599	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.686	1.696	
Pe Aluminum		Master	2.570	2.470	2.570	2.670	
Pe Magnesium		Master	2.650	2.550	2.620	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 20:22:40 17-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.3884	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.8830	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.2821	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.3142	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.6295	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.9500	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM): 20:22:40 17-Sep-2014

Before (Measured): 17:45:28 25-Sep-2014 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master Before Before-Master	1.0000 0.7372 -----	 0.7003 -----	0.7372 0.7353 -0.0019	 0.7740 -----	
BS Window Sum	1/s	Master Before Before-Master	1 25196 -----	 23936 -----	25196 25076 -120	 26456 -----	
SS Window Ratio		Master	1.0000		0.4824		

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read									
Master (EEPROM):		00:00:00 15-Jan-2007							
Address	Data	Size	Manufacturer	Model Number	Serial Number	Manufacturer	Model Number	Serial Number	Manufacturer
0000	00	1	00	00	00	00	00	00	00
0001	00	1	00	00	00	00	00	00	00
0002	00	1	00	00	00	00	00	00	00
0003	00	1	00	00	00	00	00	00	00
0004	00	1	00	00	00	00	00	00	00
0005	00	1	00	00	00	00	00	00	00
0006	00	1	00	00	00	00	00	00	00
0007	00	1	00	00	00	00	00	00	00
0008	00	1	00	00	00	00	00	00	00
0009	00	1	00	00	00	00	00	00	00
000A	00	1	00	00	00	00	00	00	00
000B	00	1	00	00	00	00	00	00	00
000C	00	1	00	00	00	00	00	00	00
000D	00	1	00	00	00	00	00	00	00
000E	00	1	00	00	00	00	00	00	00
000F	00	1	00	00	00	00	00	00	00
0010	00	1	00	00	00	00	00	00	00
0011	00	1	00	00	00	00	00	00	00
0012	00	1	00	00	00	00	00	00	00
0013	00	1	00	00	00	00	00	00	00
0014	00	1	00	00	00	00	00	00	00
0015	00	1	00	00	00	00	00	00	00
0016	00	1	00	00	00	00	00	00	00
0017	00	1	00	00	00	00	00	00	00
0018	00	1	00	00	00	00	00	00	00
0019	00	1	00	00	00	00	00	00	00
001A	00	1	00	00	00	00	00	00	00
001B	00	1	00	00	00	00	00	00	00
001C	00	1	00	00	00	00	00	00	00
001D	00	1	00	00	00	00	00	00	00
001E	00	1	00	00	00	00	00	00	00
001F	00	1	00	00	00	00	00	00	00
0020	00	1	00	00	00	00	00	00	00
0021	00	1	00	00	00	00	00	00	00
0022	00	1	00	00	00	00	00	00	00
0023	00	1	00	00	00	00	00	00	00
0024	00	1	00	00	00	00	00	00	00
0025	00	1	00	00	00	00	00	00	00
0026	00	1	00	00	00	00	00	00	00
0027	00	1	00	00	00	00	00	00	00
0028	00	1	00	00	00	00	00	00	00
0029	00	1	00	00	00	00	00	00	00
002A	00	1	00	00	00	00	00	00	00
002B	00	1	00	00	00	00	00	00	00
002C	00	1	00	00	00	00	00	00	00

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

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 14:22:08 24-Jul-2014		Before (Measured): 17:43:47 25-Sep-2014		After: Expired by 1 days			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	24.9	40.0	
		Before	0	5.0	25.4	40.0	
		After	----	----	----	----	
		Before-Master	----	-3.7	0.5	3.7	
		After-Before	----	----	----	----	
Far Zero Measurement	1/s	Master	0	5.0	28.9	40.0	
		Before	0	5.0	29.2	40.0	
		After	----	----	----	----	
		Before-Master	----	-4.3	0.3	4.3	
		After-Before	----	----	----	----	
Near Plus Measurement	1/s	Master	6031.0	4700.0	5342.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Plus Measurement	1/s	Master	2793.0	1900.0	2232.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Near Corrected Plus Measurement	1/s	Master		4700.0	5311.0	6900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	
Far Corrected Plus Measurement	1/s	Master		1900.0	2200.0	2900.0	
		Before	----	----	----	----	
		After	----	----	----	----	
		Before-Master	----	----	----	----	
		After-Before	----	----	----	----	

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured): 17:45:49 25-Sep-2014		Expired by 1 days		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before	30.0	0	83.1	120.0	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before	185.4	157.1	169.0	206.3	
		After	----	----	NOT DONE	----	
		After-Before	----	----	----	----	
GR Calibration Gain		Before	0.89	0.80	0.98	1.05	
		After	----	----	----	----	
		After-Before	----	----	----	----	

HDRS-H[2] (HILT Density and Rxo Sonde, 150 degC) Calibration - Run ONE

Primary Equipment :			
HILT High-Resolution Control Cartridge, 150 degC		HRCC-H	
HILT Resistivity Gamma-Ray Density Device, 150 degC		HRGD-H	
		3714	

Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	
HRDD Short Spacing Detector	Short Spacing	27860
Cesium 137 Gamma-Ray Logging Source	GSR-J	5416
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): 17:40:58 25-Sep-2014 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	in	Before	8.00	6.00	7.21	10.00	
Large Ring	in	Before	12.00	9.00	11.54	15.00	

HDRS Density Calibration - Inversion Results

Master (EEPROM): 16:47:40 14-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	g/cm3	Master	2.596	2.586	2.600	2.606	
Rho Magnesium	g/cm3	Master	1.686	1.676	1.687	1.696	
Pe Aluminum		Master	2.570	2.470	2.546	2.670	
Pe Magnesium		Master	2.650	2.550	2.618	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 16:47:40 14-Sep-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.3606	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.7014	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.4095	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.3920	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.6086	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.3228	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM): 16:47:40 14-Sep-2014

Before (Measured): 17:45:17 25-Sep-2014 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7333		
		Before	0.7333	0.6966	0.7333	0.7699	
		Before-Master	-----	-----	0.0000	-----	
BS Window Sum	1/s	Master	1		25108		
		Before	25108	23853	25140	26364	
		Before-Master	-----	-----	32	-----	
SS Window Ratio		Master	1.0000		0.4829		
		Before	0.4829	0.4587	0.4816	0.5070	
		Before-Master	-----	-----	-0.0013	-----	
SS Window Sum	1/s	Master	1		13441		
		Before	13441	12769	13430	14113	
		Before-Master	-----	-----	-11	-----	
LS Window Ratio		Master	1.0000		0.2969		
		Before	0.2969	0.2820	0.2978	0.3117	
		Before-Master	-----	-----	0.0009	-----	
LS Window Sum	1/s	Master	1		1521		
		Before	1521	1445	1516	1597	
		Before-Master	-----	-----	-5	-----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 16:47:40 14-Sep-2014

Before (Measured): 17:45:17 25-Sep-2014 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1556	2400	
		Before		1000	1532	2400	
		Before-Master	-----	-100	-24	100	
SS PM High Voltage	V	Master		1000	1534	2400	
		Before		1000	1533	2400	

		Before-Master	-----	-100	-1	100	
LS PM High Voltage	V	Master		1000	1404	2400	
		Before		1000	1404	2400	
		Before-Master	-----	-100	0	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM):		16:47:40 14-Sep-2014		Before (Measured):		17:45:17 25-Sep-2014 Expired by 1 days	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.63	25.00	
		Before		5.00	10.77	25.00	
		Before-Master	-----	-1.00	0.14	1.00	
SS Crystal Resolution	%	Master		5.00	9.60	20.00	
		Before		5.00	9.49	20.00	
		Before-Master	-----	-1.00	-0.11	1.00	
LS Crystal Resolution	%	Master		5.00	8.75	20.00	
		Before		5.00	8.96	20.00	
		Before-Master	-----	-1.00	0.21	1.00	

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured):		17:48:03 25-Sep-2014 Expired by 1 days					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3858	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3801	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3824	4136	

HNGS-BA (Hostile-environment Natural Gamma-ray Sonde) Calibration - Run ONE

Primary Equipment :			
HNGS Sonde Element		HNGS-BA	392
Auxiliary Equipment :			
Hostile Natural Gamma Ray Cartridge		HNGC-B	657
HNGS Housing Element		HEH-K	1007
			7992
Housing for the HNGC		HNGH-A	4144

HNGS Background and Na22 Set Point Determination - Detector 1 Check

Master (EEPROM):		10:24:22 12-Aug-2014		Before (Measured):		17:51:14 25-Sep-2014		After:	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit			
Na 511 Peak Location		Master	40.000	37.500	38.608	42.500			
		Before	40.000	37.500	38.594	42.500			
		After	40.000	37.500	NOT DONE	42.500			
		Before-Master	-----	-----	-0.014	-----			
		After-Before	-----	-----	-----	-----			
Na 511 Peak Resolution	%	Master	15.500	12.000	14.753	19.000			
		Before	15.500	12.000	13.315	19.000			
		After	15.500	12.000	NOT DONE	19.000			
		Before-Master	-----	-----	-1.438	-----			
		After-Before	-----	-----	-----	-----			
High Voltage DAC Value	V	Master			896.211				
		Before	1150.000	850.000	894.547	1600.000			
		After	-----	-----	-----	-----			
		Before-Master	-----	-----	-1.664	-----			
		After-Before	-----	-----	-----	-----			
Na 1785 Peak Location		Master	142.650	135.000	139.188	150.300			
		Before	142.650	135.000	138.839	150.300			
		After	142.650	135.000	NOT DONE	150.300			
		Before-Master	-----	-----	-0.349	-----			
		After-Before	-----	-----	-----	-----			
Na 1785 Peak Resolution	%	Master	8.500	7.000	9.981	11.000			
		Before	8.500	7.000	10.015	11.000			
		After	8.500	7.000	NOT DONE	11.000			
		Before-Master	-----	-----	0.034	-----			
		After-Before	-----	-----	-----	-----			
Temperature - 0	degF	Master	-----	-----	-----	-----			
		Before	59.900	-20.002	75.185	140.000			
		After	-----	-----	-----	-----			

		Before-Master After-Before	-----	-----	-----	-----	
Na Count Rate	CPS	Master Before After Before-Master After-Before	45.000 45.000 45.000 ----- -----	10.000 10.000 10.000 ----- -----	33.214 35.171 NOT DONE 1.957 -----	100.000 100.000 100.000 ----- -----	
HNGS Background and Na22 Set Point Determination - Detector 2 Check							
Master (EEPROM): 10:24:22 12-Aug-2014		Before (Measured): 17:51:14 25-Sep-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Na 511 Peak Location		Master Before After Before-Master After-Before	40.000 40.000 40.000 ----- -----	37.500 37.500 37.500 ----- -----	39.685 39.657 NOT DONE -0.028 -----	42.500 42.500 42.500 ----- -----	
Na 511 Peak Resolution	%	Master Before After Before-Master After-Before	15.500 15.500 15.500 ----- -----	12.000 12.000 12.000 ----- -----	14.789 14.793 NOT DONE 0.004 -----	19.000 19.000 19.000 ----- -----	
High Voltage DAC Value	V	Master Before After Before-Master After-Before	----- 1150.000 ----- ----- -----	----- 850.000 ----- ----- -----	966.377 964.799 ----- -1.578 -----	----- 1600.000 ----- ----- -----	
Na 1785 Peak Location		Master Before After Before-Master After-Before	142.650 142.650 142.650 ----- -----	135.000 135.000 135.000 ----- -----	142.051 140.762 NOT DONE -1.289 -----	150.300 150.300 150.300 ----- -----	
Na 1785 Peak Resolution	%	Master Before After Before-Master After-Before	8.500 8.500 8.500 ----- -----	7.000 7.000 7.000 ----- -----	8.072 8.430 NOT DONE 0.358 -----	11.000 11.000 11.000 ----- -----	
Temperature - 0	degF	Master Before After Before-Master After-Before	----- 59.900 ----- ----- -----	----- -20.002 ----- ----- -----	----- 74.195 ----- ----- -----	----- 140.000 ----- ----- -----	
Na Count Rate	CPS	Master Before After Before-Master After-Before	45.000 45.000 45.000 ----- -----	10.000 10.000 10.000 ----- -----	33.451 35.206 NOT DONE 1.755 -----	100.000 100.000 100.000 ----- -----	
HNGS Background and Na22 Set Point Determination - Ratio of Detector 1 to Detector 2							
Master (EEPROM): 10:24:22 12-Aug-2014		Before (Measured): 17:51:14 25-Sep-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coincidence Count Rate Ratio		Master Before After Before-Master After-Before	----- 1.000 ----- ----- -----	----- 0.950 ----- ----- -----	0.990 0.995 ----- 0.005 -----	----- 1.050 ----- ----- -----	
HNGS Background and Na22 Set Point Determination - Detector 1 Calibration							
Master (EEPROM): 10:24:22 12-Aug-2014		Before (Measured): 17:51:14 25-Sep-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Th Peak Location		Master Before After Before-Master After-Before	209.630 ----- ----- ----- -----	201.000 ----- ----- ----- -----	208.061 ----- ----- ----- -----	218.250 ----- ----- ----- -----	
Th Peak Resolution	%	Master Before After Before-Master After-Before	7.000 ----- ----- ----- -----	5.000 ----- ----- ----- -----	7.609 ----- ----- ----- -----	9.000 ----- ----- ----- -----	

RHTE Zero Measurement - 0	lbf	Before	----	----	----	----		
RHTE Plus Measurement - 0	lbf	Before	----	----	----	----		
HTEN Gain - 0		Before	----	----	----	----		
HTEN Offset - 0	lbf	Before	----	----	----	----		

ZAiT-E (Array Induction Tool - ZE) Calibration - Run TWO

Primary Equipment :		20 kpi sonde - V8		AZIS		99	
Auxiliary Equipment :		File code for AIT Bottom Nose Tool Element		AZRM			

AIT Master Calibration - Test Loop Gain

Master (EEPROM):	03:09:36 14-Dec-2012
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Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Test Loop Gain - 0		Master	1.000	----	1.011	----		
Test Loop Phase - 0	deg	Master	0	----	-0.430	----		
Test Loop Gain - 1		Master	1.000	----	0.998	----		
Test Loop Phase - 1	deg	Master	0	----	0.422	----		
Test Loop Gain - 2		Master	1.000	----	0.999	----		
Test Loop Phase - 2	deg	Master	0	----	0.019	----		
Test Loop Gain - 3		Master	1.000	----	1.076	----		
Test Loop Phase - 3	deg	Master	0	----	-0.073	----		
Test Loop Gain - 4		Master	1.000	----	1.061	----		
Test Loop Phase - 4	deg	Master	0	----	0.570	----		
Test Loop Gain - 5		Master	1.000	----	1.004	----		
Test Loop Phase - 5	deg	Master	0	----	0.013	----		
Test Loop Gain - 6		Master	1.000	----	0.998	----		
Test Loop Phase - 6	deg	Master	0	----	-0.091	----		
Test Loop Gain - 7		Master	1.000	----	1.004	----		
Test Loop Phase - 7	deg	Master	0	----	0.278	----		
Test Loop Gain - 8		Master	1.000	----	1.001	----		
Test Loop Phase - 8	deg	Master	0	----	-0.519	----		
Test Loop Gain - 9		Master	1.000	----	0.962	----		
Test Loop Phase - 9	deg	Master	0	----	0.063	----		
Test Loop Gain - 10		Master	1.000	----	1.042	----		
Test Loop Phase - 10	deg	Master	0	----	2.148	----		
Test Loop Gain - 11		Master	1.000	----	1.029	----		
Test Loop Phase - 11	deg	Master	0	----	-0.219	----		
Test Loop Gain - 12		Master	1.000	----	0.941	----		
Test Loop Phase - 12	deg	Master	0	----	0.426	----		
Test Loop Gain - 13		Master	1.000	----	0.961	----		
Test Loop Phase - 13	deg	Master	0	----	0.325	----		
Test Loop Gain - 14		Master	1.000	----	1.021	----		
Test Loop Phase - 14	deg	Master	0	----	-0.022	----		
Test Loop Gain - 15		Master	1.000	----	1.016	----		
Test Loop Phase - 15	deg	Master	0	----	-1.359	----		
Test Loop Gain - 16		Master	1.000	----	1.019	----		
Test Loop Phase - 16	deg	Master	0	----	-1.108	----		
Test Loop Gain - 17		Master	1.000	----	1.006	----		
Test Loop Phase - 17	deg	Master	0	----	-0.446	----		
Test Loop Gain - 18		Master	1.000	----	0.947	----		
Test Loop Phase - 18	deg	Master	0	----	0.095	----		
Test Loop Gain - 19		Master	1.000	----	1.026	----		
Test Loop Phase - 19	deg	Master	0	----	1.393	----		
Test Loop Gain - 20		Master	1.000	----	1.027	----		
Test Loop Phase - 20	deg	Master	0	----	-0.128	----		
Test Loop Gain - 21		Master	1.000	----	0.930	----		
Test Loop Phase - 21	deg	Master	0	----	0.682	----		
Test Loop Gain - 22		Master	1.000	----	0.952	----		
Test Loop Phase - 22	deg	Master	0	----	0.582	----		
Test Loop Gain - 23		Master	1.000	----	1.018	----		
Test Loop Phase - 23	deg	Master	0	----	0.269	----		
Test Loop Gain - 24		Master	1.000	----	1.039	----		

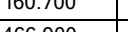
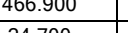
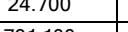
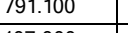
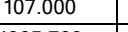
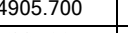
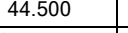
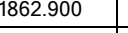
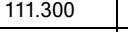
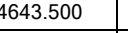
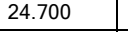

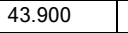
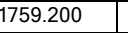
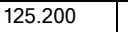
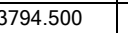
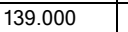
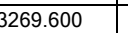
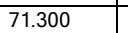
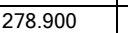
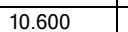
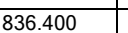
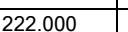
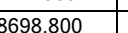
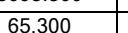
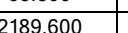
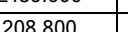
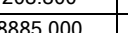
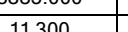
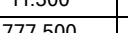
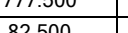
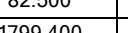
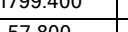
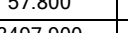
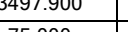
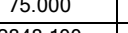
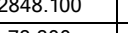
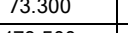
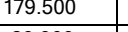
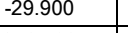
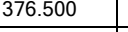
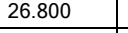
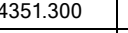
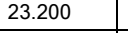
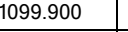
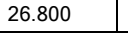
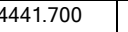
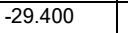
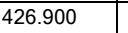
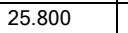
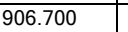
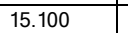
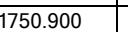
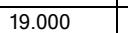
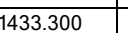
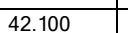
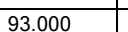
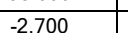
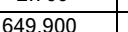
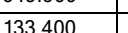
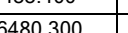
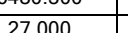
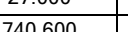
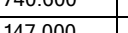
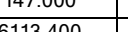
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Test Loop Phase - 25		deg	Master	0	----	-0.674	----		
Test Loop Gain - 26			Master	1.000	----	1.010	----		
Test Loop Phase - 26		deg	Master	0	----	-0.455	----		
Test Loop Gain - 27			Master	1.000	----	0.975	----		
Test Loop Phase - 27		deg	Master	0	----	1.354	----		
Test Loop Gain - 28			Master	1.000	----	1.004	----		
Test Loop Phase - 28		deg	Master	0	----	0.797	----		
Test Loop Gain - 29			Master	1.000	----	1.026	----		
Test Loop Phase - 29		deg	Master	0	----	0.636	----		
Test Loop Gain - 30			Master	1.000	----	0.971	----		
Test Loop Phase - 30		deg	Master	0	----	1.508	----		
Test Loop Gain - 31			Master	1.000	----	0.966	----		
Test Loop Phase - 31		deg	Master	0	----	1.665	----		
Test Loop Gain - 32			Master	1.000	----	1.014	----		
Test Loop Phase - 32		deg	Master	0	----	0.636	----		
Test Loop Gain - 33			Master	1.000	----	1.050	----		
Test Loop Phase - 33		deg	Master	0	----	1.257	----		
Test Loop Gain - 34			Master	1.000	----	1.044	----		
Test Loop Phase - 34		deg	Master	0	----	1.580	----		
Test Loop Gain - 35			Master	1.000	----	1.004	----		
Test Loop Phase - 35		deg	Master	0	----	-0.292	----		
Test Loop Gain - 36			Master	1.000	----	0.977	----		
Test Loop Phase - 36		deg	Master	0	----	0.135	----		
Test Loop Gain - 37			Master	1.000	----	1.010	----		
Test Loop Phase - 37		deg	Master	0	----	-0.204	----		
Test Loop Gain - 38			Master	1.000	----	1.022	----		
Test Loop Phase - 38		deg	Master	0	----	0.374	----		
Test Loop Gain - 39			Master	1.000	----	0.970	----		
Test Loop Phase - 39		deg	Master	0	----	0.443	----		
Test Loop Gain - 40			Master	1.000	----	0.965	----		
Test Loop Phase - 40		deg	Master	0	----	0.586	----		
Test Loop Gain - 41			Master	1.000	----	1.005	----		
Test Loop Phase - 41		deg	Master	0	----	0.614	----		
Test Loop Gain - 42			Master	1.000	----	1.047	----		
Test Loop Phase - 42		deg	Master	0	----	-0.031	----		
Test Loop Gain - 43			Master	1.000	----	1.042	----		
Test Loop Phase - 43		deg	Master	0	----	0.135	----		
Test Loop Gain - 44			Master	1.000	----	1.000	----		
Test Loop Phase - 44		deg	Master	0	----	-0.333	----		
Test Loop Gain - 45			Master	1.000	----	1.052	----		
Test Loop Phase - 45		deg	Master	0	----	0.026	----		
Test Loop Gain - 46			Master	1.000	----	1.081	----		
Test Loop Phase - 46		deg	Master	0	----	0.486	----		
Test Loop Gain - 47			Master	1.000	----	1.018	----		
Test Loop Phase - 47		deg	Master	0	----	-0.177	----		
Test Loop Gain - 48			Master	1.000	----	1.036	----		
Test Loop Phase - 48		deg	Master	0	----	0.431	----		
Test Loop Gain - 49			Master	1.000	----	1.051	----		
Test Loop Phase - 49		deg	Master	0	----	0.294	----		
Test Loop Gain - 50			Master	1.000	----	1.027	----		
Test Loop Phase - 50		deg	Master	0	----	0.175	----		
Test Loop Gain - 51			Master	1.000	----	1.031	----		
Test Loop Phase - 51		deg	Master	0	----	-0.083	----		
Test Loop Gain - 52			Master	1.000	----	1.037	----		
Test Loop Phase - 52		deg	Master	0	----	0.005	----		
Test Loop Gain - 53			Master	1.000	----	1.015	----		
Test Loop Phase - 53		deg	Master	0	----	-0.134	----		
Test Loop Gain - 54			Master	1.000	----	1.044	----		
Test Loop Phase - 54		deg	Master	0	----	-0.634	----		
Test Loop Gain - 55			Master	1.000	----	1.071	----		
Test Loop Phase - 55		deg	Master	0	----	-0.285	----		
Test Loop Gain - 56			Master	1.000	----	1.016	----		
Test Loop Phase - 56		deg	Master	0	----	-0.810	----		

Test Loop Gain - 57		Master	1.000	----	1.025	----		
Test Loop Phase - 57	deg	Master	0	----	-0.156	----		
Test Loop Gain - 58		Master	1.000	----	1.039	----		
Test Loop Phase - 58	deg	Master	0	----	-0.189	----		
Test Loop Gain - 59		Master	1.000	----	1.021	----		
Test Loop Phase - 59	deg	Master	0	----	-0.361	----		
Test Loop Gain - 60		Master	1.000	----	1.026	----		
Test Loop Phase - 60	deg	Master	0	----	-0.948	----		
Test Loop Gain - 61		Master	1.000	----	1.033	----		
Test Loop Phase - 61	deg	Master	0	----	-0.884	----		
Test Loop Gain - 62		Master	1.000	----	1.016	----		
Test Loop Phase - 62	deg	Master	0	----	-1.036	----		
Test Loop Gain - 63		Master	1.000	----	1.050	----		
Test Loop Phase - 63	deg	Master	0	----	0.049	----		
Test Loop Gain - 64		Master	1.000	----	1.035	----		
Test Loop Phase - 64	deg	Master	0	----	0.782	----		
Test Loop Gain - 65		Master	1.000	----	1.036	----		
Test Loop Phase - 65	deg	Master	0	----	0.193	----		
Test Loop Gain - 66		Master	1.000	----	1.075	----		
Test Loop Phase - 66	deg	Master	0	----	0.406	----		
Test Loop Gain - 67		Master	1.000	----	1.044	----		
Test Loop Phase - 67	deg	Master	0	----	0.233	----		
Test Loop Gain - 68		Master	1.000	----	1.025	----		
Test Loop Phase - 68	deg	Master	0	----	0.391	----		
Test Loop Gain - 69		Master	1.000	----	1.027	----		
Test Loop Phase - 69	deg	Master	0	----	-0.215	----		
Test Loop Gain - 70		Master	1.000	----	1.029	----		
Test Loop Phase - 70	deg	Master	0	----	-0.177	----		
Test Loop Gain - 71		Master	1.000	----	1.017	----		
Test Loop Phase - 71	deg	Master	0	----	-0.094	----		
Test Loop Gain - 72		Master	1.000	----	1.028	----		
Test Loop Phase - 72	deg	Master	0	----	-0.720	----		
Test Loop Gain - 73		Master	1.000	----	1.012	----		
Test Loop Phase - 73	deg	Master	0	----	-0.453	----		
Test Loop Gain - 74		Master	1.000	----	1.034	----		
Test Loop Phase - 74	deg	Master	0	----	-0.576	----		
Test Loop Gain - 75		Master	1.000	----	1.047	----		
Test Loop Phase - 75	deg	Master	0	----	-0.294	----		
Test Loop Gain - 76		Master	1.000	----	1.018	----		
Test Loop Phase - 76	deg	Master	0	----	-0.364	----		
Test Loop Gain - 77		Master	1.000	----	1.021	----		
Test Loop Phase - 77	deg	Master	0	----	-0.228	----		
Test Loop Gain - 78		Master	1.000	----	1.008	----		
Test Loop Phase - 78	deg	Master	0	----	-1.068	----		
Test Loop Gain - 79		Master	1.000	----	1.011	----		
Test Loop Phase - 79	deg	Master	0	----	-1.050	----		
Test Loop Gain - 80		Master	1.000	----	1.019	----		
Test Loop Phase - 80	deg	Master	0	----	-0.902	----		
Test Loop Gain - 81		Master	1.000	----	1.015	----		
Test Loop Phase - 81	deg	Master	0	----	-0.076	----		
Test Loop Gain - 82		Master	1.000	----	1.015	----		
Test Loop Phase - 82	deg	Master	0	----	-0.150	----		
Test Loop Gain - 83		Master	1.000	----	1.025	----		
Test Loop Phase - 83	deg	Master	0	----	0.063	----		
Test Loop Gain - 84		Master	1.000	----	1.027	----		
Test Loop Phase - 84	deg	Master	0	----	-0.071	----		
Test Loop Gain - 85		Master	1.000	----	1.014	----		
Test Loop Phase - 85	deg	Master	0	----	0.165	----		
Test Loop Gain - 86		Master	1.000	----	1.012	----		
Test Loop Phase - 86	deg	Master	0	----	0.194	----		
Test Loop Gain - 87		Master	1.000	----	1.042	----		
Test Loop Phase - 87	deg	Master	0	----	-0.408	----		
Test Loop Gain - 88		Master	1.000	----	1.033	----		
Test Loop Phase - 88	deg	Master	0	----	0.024	----		
Test Loop Gain - 89		Master	1.000	----	1.025	----		

Test Loop Gain - 89		Master	1.000	-----	-0.273	-----		
Test Loop Phase - 89	deg	Master	0	-----	-0.273	-----		
Test Loop Gain - 90		Master	1.000	-----	0.999	-----		
Test Loop Phase - 90	deg	Master	0	-----	-0.638	-----		
Test Loop Gain - 91		Master	1.000	-----	1.001	-----		
Test Loop Phase - 91	deg	Master	0	-----	-0.680	-----		
Test Loop Gain - 92		Master	1.000	-----	1.019	-----		
Test Loop Phase - 92	deg	Master	0	-----	-0.525	-----		
Test Loop Gain - 93		Master	1.000	-----	1.012	-----		
Test Loop Phase - 93	deg	Master	0	-----	-0.333	-----		
Test Loop Gain - 94		Master	1.000	-----	0.999	-----		
Test Loop Phase - 94	deg	Master	0	-----	-0.135	-----		
Test Loop Gain - 95		Master	1.000	-----	1.004	-----		
Test Loop Phase - 95	deg	Master	0	-----	-0.106	-----		
Test Loop Gain - 96		Master	1.000	-----	1.027	-----		
Test Loop Phase - 96	deg	Master	0	-----	-0.645	-----		
Test Loop Gain - 97		Master	1.000	-----	1.016	-----		
Test Loop Phase - 97	deg	Master	0	-----	-0.409	-----		
Test Loop Gain - 98		Master	1.000	-----	1.013	-----		
Test Loop Phase - 98	deg	Master	0	-----	-0.946	-----		
Test Loop Gain - 99		Master	1.000	-----	1.005	-----		
Test Loop Phase - 99	deg	Master	0	-----	-0.163	-----		
Test Loop Gain - 100		Master	1.000	-----	1.025	-----		
Test Loop Phase - 100	deg	Master	0	-----	0.004	-----		
Test Loop Gain - 101		Master	1.000	-----	1.010	-----		
Test Loop Phase - 101	deg	Master	0	-----	-0.592	-----		
Test Loop Gain - 102		Master	1.000	-----	1.012	-----		
Test Loop Phase - 102	deg	Master	0	-----	0.142	-----		
Test Loop Gain - 103		Master	1.000	-----	1.012	-----		
Test Loop Phase - 103	deg	Master	0	-----	0.112	-----		
Test Loop Gain - 104		Master	1.000	-----	0.979	-----		
Test Loop Phase - 104	deg	Master	0	-----	0.311	-----		
Test Loop Gain - 105		Master	1.000	-----	1.002	-----		
Test Loop Phase - 105	deg	Master	0	-----	-0.626	-----		
Test Loop Gain - 106		Master	1.000	-----	0.999	-----		
Test Loop Phase - 106	deg	Master	0	-----	-0.581	-----		
Test Loop Gain - 107		Master	1.000	-----	1.012	-----		
Test Loop Phase - 107	deg	Master	0	-----	-0.318	-----		
Test Loop Gain - 108		Master	1.000	-----	0.985	-----		
Test Loop Phase - 108	deg	Master	0	-----	-0.714	-----		
Test Loop Gain - 109		Master	1.000	-----	1.006	-----		
Test Loop Phase - 109	deg	Master	0	-----	-0.636	-----		
Test Loop Gain - 110		Master	1.000	-----	0.926	-----		
Test Loop Phase - 110	deg	Master	0	-----	-0.935	-----		
Test Loop Gain - 111		Master	1.000	-----	0.992	-----		
Test Loop Phase - 111	deg	Master	0	-----	-0.370	-----		
Test Loop Gain - 112		Master	1.000	-----	0.991	-----		
Test Loop Phase - 112	deg	Master	0	-----	-0.394	-----		
Test Loop Gain - 113		Master	1.000	-----	0.906	-----		
Test Loop Phase - 113	deg	Master	0	-----	-0.382	-----		
Test Loop Gain - 114		Master	1.000	-----	0.967	-----		
Test Loop Phase - 114	deg	Master	0	-----	-1.323	-----		
Test Loop Gain - 115		Master	1.000	-----	0.961	-----		
Test Loop Phase - 115	deg	Master	0	-----	-1.313	-----		
Test Loop Gain - 116		Master	1.000	-----	1.008	-----		
Test Loop Phase - 116	deg	Master	0	-----	-0.811	-----		

AIT Master Calibration - Sonde Error Correction								
Master (EEPROM):		03:09:36 14-Dec-2012						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Sonde Error Correction Real - 0	mS/m	Master	-----	-2899.500	112.225	3339.700		
Sonde Error Correction Quad - 0		Master	-----	-41397.000	4084.254	55036.000		
Sonde Error Correction Real - 1	mS/m	Master	-----	-2921.000	32.314	3318.200		
Sonde Error Correction Quad - 1		Master	-----	-42973.000	3870.522	53460.000		
Sonde Error Correction Real - 2	mS/m	Master	-----	-2357.400	-1371.772	-506.600		
Sonde Error Correction Quad - 2		Master	-----	-5751.600	2053.553	6763.000		

[illegible]

Sonde Error Correction Real - 35	mS/m	Master	----	87.100	119.938	160.700	
Sonde Error Correction Quad - 35		Master	----	-569.100	10.692	466.900	
Sonde Error Correction Real - 36	mS/m	Master	----	-98.300	-43.519	24.700	
Sonde Error Correction Quad - 36		Master	----	-758.300	-9.058	791.100	
Sonde Error Correction Real - 37	mS/m	Master	----	-102.200	22.138	107.000	
Sonde Error Correction Quad - 37		Master	----	-4976.900	-1560.762	4905.700	
Sonde Error Correction Real - 38	mS/m	Master	----	-29.500	9.153	44.500	
Sonde Error Correction Quad - 38		Master	----	-1658.100	229.567	1862.900	
Sonde Error Correction Real - 39	mS/m	Master	----	-97.900	-10.348	111.300	
Sonde Error Correction Quad - 39		Master	----	-5239.100	796.718	4643.500	
Sonde Error Correction Real - 40	mS/m	Master	----	-98.300	-39.955	24.700	
Sonde Error Correction Quad - 40		Master	----	-646.000	-48.933	903.400	
Sonde Error Correction Real - 41	mS/m	Master	----	-30.100	4.289	43.900	
Sonde Error Correction Quad - 41		Master	----	-1761.800	-134.054	1759.200	
Sonde Error Correction Real - 42	mS/m	Master	----	-147.000	8.032	125.200	
Sonde Error Correction Quad - 42		Master	----	-3194.900	260.666	3794.500	
Sonde Error Correction Real - 43	mS/m	Master	----	-133.200	6.653	139.000	
Sonde Error Correction Quad - 43		Master	----	-3719.800	-15.869	3269.600	
Sonde Error Correction Real - 44	mS/m	Master	----	46.500	49.679	71.300	
Sonde Error Correction Quad - 44		Master	----	-231.700	55.392	278.900	
Sonde Error Correction Real - 45	mS/m	Master	----	-68.200	-20.905	10.600	
Sonde Error Correction Quad - 45		Master	----	-424.400	-13.488	836.400	
Sonde Error Correction Real - 46	mS/m	Master	----	-209.000	-36.836	222.000	
Sonde Error Correction Quad - 46		Master	----	-8856.000	1092.933	8698.800	
Sonde Error Correction Real - 47	mS/m	Master	----	-79.100	-4.168	65.300	
Sonde Error Correction Quad - 47		Master	----	-1582.400	-75.839	2189.600	
Sonde Error Correction Real - 48	mS/m	Master	----	-222.200	38.118	208.800	
Sonde Error Correction Quad - 48		Master	----	-8669.800	-1314.495	8885.000	
Sonde Error Correction Real - 49	mS/m	Master	----	-67.500	-21.340	11.300	
Sonde Error Correction Quad - 49		Master	----	-483.300	140.984	777.500	
Sonde Error Correction Real - 50	mS/m	Master	----	-61.900	4.237	82.500	
Sonde Error Correction Quad - 50		Master	----	-1972.600	-263.990	1799.400	
Sonde Error Correction Real - 51	mS/m	Master	----	-69.600	-3.661	57.800	
Sonde Error Correction Quad - 51		Master	----	-3010.100	-180.968	3497.900	
Sonde Error Correction Real - 52	mS/m	Master	----	-52.400	14.422	75.000	
Sonde Error Correction Quad - 52		Master	----	-3659.900	-573.709	2848.100	
Sonde Error Correction Real - 53	mS/m	Master	----	37.300	55.162	73.300	
Sonde Error Correction Quad - 53		Master	----	-180.700	-6.470	179.500	
Sonde Error Correction Real - 54	mS/m	Master	----	-99.500	-62.226	-29.900	
Sonde Error Correction Quad - 54		Master	----	-309.400	-49.891	376.500	
Sonde Error Correction Real - 55	mS/m	Master	----	-25.400	-8.382	26.800	
Sonde Error Correction Quad - 55		Master	----	-4426.300	545.046	4351.300	
Sonde Error Correction Real - 56	mS/m	Master	----	-24.000	-1.653	23.200	
Sonde Error Correction Quad - 56		Master	----	-798.900	-42.745	1099.900	
Sonde Error Correction Real - 57	mS/m	Master	----	-25.400	7.447	26.800	
Sonde Error Correction Quad - 57		Master	----	-4335.900	-653.299	4441.700	
Sonde Error Correction Real - 58	mS/m	Master	----	-99.000	-60.324	-29.400	
Sonde Error Correction Quad - 58		Master	----	-426.900	26.371	426.900	
Sonde Error Correction Real - 59	mS/m	Master	----	-21.400	0.243	25.800	
Sonde Error Correction Quad - 59		Master	----	-992.100	-133.017	906.700	
Sonde Error Correction Real - 60	mS/m	Master	----	-17.700	-1.891	15.100	
Sonde Error Correction Quad - 60		Master	----	-1518.500	-95.619	1750.900	
Sonde Error Correction Real - 61	mS/m	Master	----	-13.800	4.240	19.000	
Sonde Error Correction Quad - 61		Master	----	-1836.100	-286.006	1433.300	
Sonde Error Correction Real - 62	mS/m	Master	----	20.900	30.904	42.100	
Sonde Error Correction Quad - 62		Master	----	-80.900	4.348	93.000	
Sonde Error Correction Real - 63	mS/m	Master	----	-52.100	-24.132	-2.700	
Sonde Error Correction Quad - 63		Master	----	-101.900	243.107	649.900	
Sonde Error Correction Real - 64	mS/m	Master	----	-147.800	23.091	133.400	
Sonde Error Correction Quad - 64		Master	----	-6054.100	-571.801	6480.300	
Sonde Error Correction Real - 65	mS/m	Master	----	-38.200	-3.705	27.000	
Sonde Error Correction Quad - 65		Master	----	-414.600	131.273	740.600	
Sonde Error Correction Real - 66	mS/m	Master	----	-134.200	-15.490	147.000	
Sonde Error Correction Quad - 66		Master	----	-6421.000	590.020	6113.400	
Sonde Error Correction Real - 67	mS/m	Master	----	-50.900	-21.065	-1.500	

Sonde Error Correction Quad - 67		Master	-----	-120.200	213.334	631.600	
Sonde Error Correction Real - 68	mS/m	Master	-----	-28.200	-1.546	37.000	
Sonde Error Correction Quad - 68		Master	-----	-564.900	-5.755	590.300	
Sonde Error Correction Real - 69	mS/m	Master	-----	-25.200	-3.653	23.200	
Sonde Error Correction Quad - 69		Master	-----	-1131.800	240.973	1562.200	
Sonde Error Correction Real - 70	mS/m	Master	-----	-20.500	4.294	27.900	
Sonde Error Correction Quad - 70		Master	-----	-1454.700	-52.431	1239.300	
Sonde Error Correction Real - 71	mS/m	Master	-----	16.900	23.494	30.100	
Sonde Error Correction Quad - 71		Master	-----	-63.200	38.011	82.600	
Sonde Error Correction Real - 72	mS/m	Master	-----	-55.800	-33.514	-15.800	
Sonde Error Correction Quad - 72		Master	-----	-157.900	41.616	247.900	
Sonde Error Correction Real - 73	mS/m	Master	-----	-18.200	3.507	16.800	
Sonde Error Correction Quad - 73		Master	-----	-2989.700	-283.664	3198.300	
Sonde Error Correction Real - 74	mS/m	Master	-----	-10.300	-0.378	7.900	
Sonde Error Correction Quad - 74		Master	-----	-207.500	64.283	369.500	
Sonde Error Correction Real - 75	mS/m	Master	-----	-15.900	-1.707	19.100	
Sonde Error Correction Quad - 75		Master	-----	-3168.900	295.962	3019.100	
Sonde Error Correction Real - 76	mS/m	Master	-----	-54.200	-31.749	-14.200	
Sonde Error Correction Quad - 76		Master	-----	-145.800	27.916	239.000	
Sonde Error Correction Real - 77	mS/m	Master	-----	-8.400	-0.544	9.800	
Sonde Error Correction Quad - 77		Master	-----	-281.700	-3.979	295.300	
Sonde Error Correction Real - 78	mS/m	Master	-----	-6.900	2.787	11.100	
Sonde Error Correction Quad - 78		Master	-----	-567.100	117.502	775.900	
Sonde Error Correction Real - 79	mS/m	Master	-----	-8.000	2.964	10.000	
Sonde Error Correction Quad - 79		Master	-----	-725.700	-25.694	617.300	
Sonde Error Correction Real - 80	mS/m	Master	-----	11.700	16.043	20.700	
Sonde Error Correction Quad - 80		Master	-----	-59.500	12.848	59.500	
Sonde Error Correction Real - 81	mS/m	Master	-----	-83.200	-50.120	-16.600	
Sonde Error Correction Quad - 81		Master	-----	-9.500	226.240	460.300	
Sonde Error Correction Real - 82	mS/m	Master	-----	-61.200	-3.815	62.000	
Sonde Error Correction Quad - 82		Master	-----	-2224.900	154.705	2288.500	
Sonde Error Correction Real - 83	mS/m	Master	-----	-28.400	-1.235	22.200	
Sonde Error Correction Quad - 83		Master	-----	-365.200	-10.637	423.200	
Sonde Error Correction Real - 84	mS/m	Master	-----	-60.600	6.525	62.600	
Sonde Error Correction Quad - 84		Master	-----	-2297.100	-214.467	2216.300	
Sonde Error Correction Real - 85	mS/m	Master	-----	-82.600	-47.908	-16.000	
Sonde Error Correction Quad - 85		Master	-----	-25.500	204.756	444.300	
Sonde Error Correction Real - 86	mS/m	Master	-----	-22.400	-1.274	28.200	
Sonde Error Correction Quad - 86		Master	-----	-402.000	-23.192	386.400	
Sonde Error Correction Real - 87	mS/m	Master	-----	-18.000	3.866	19.000	
Sonde Error Correction Quad - 87		Master	-----	-577.000	-183.644	598.000	
Sonde Error Correction Real - 88	mS/m	Master	-----	-17.000	2.836	20.000	
Sonde Error Correction Quad - 88		Master	-----	-572.200	-70.887	602.800	
Sonde Error Correction Real - 89	mS/m	Master	-----	1.100	8.626	17.100	

Sonde Error Correction Real - 100	mS/m	Master	-----	-25.100	2.521	26.300	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 100		Master	-----	-873.400	-70.622	971.400	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 101	mS/m	Master	-----	-29.900	-6.184	24.900	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 101		Master	-----	-159.400	48.049	167.800	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 102	mS/m	Master	-----	-23.600	1.659	27.800	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 102		Master	-----	-1014.100	57.958	830.700	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 103	mS/m	Master	-----	-116.400	-61.505	-26.200	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 103		Master	-----	-325.400	1.897	509.600	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 104	mS/m	Master	-----	-26.500	-5.938	28.300	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 104		Master	-----	-155.400	44.802	171.800	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 105	mS/m	Master	-----	-12.100	4.684	20.500	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 105		Master	-----	-336.400	81.814	317.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 106	mS/m	Master	-----	-15.100	2.102	17.500	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 106		Master	-----	-331.600	62.083	321.800	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 107	mS/m	Master	-----	-21.900	-9.301	2.700	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 107		Master	-----	-290.900	3.389	338.500	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 108	mS/m	Master	-----	-113.300	-63.811	-26.700	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 108		Master	-----	-103.600	96.484	355.900	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 109	mS/m	Master	-----	-8.000	-0.129	9.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 109		Master	-----	-441.900	-33.978	491.300	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 110	mS/m	Master	-----	-9.800	-2.295	6.400	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 110		Master	-----	-74.700	17.777	74.300	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 111	mS/m	Master	-----	-7.600	1.754	9.400	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 111		Master	-----	-511.900	31.528	421.300	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 112	mS/m	Master	-----	-113.300	-64.394	-26.700	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 112		Master	-----	-81.800	87.431	353.600	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 113	mS/m	Master	-----	-8.900	-1.587	7.300	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 113		Master	-----	-71.000	17.933	78.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 114	mS/m	Master	-----	-2.300	4.861	7.700	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 114		Master	-----	-167.300	41.694	158.300	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 115	mS/m	Master	-----	-4.900	2.669	5.100	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 115		Master	-----	-165.400	31.242	160.200	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Real - 116	mS/m	Master	-----	-9.600	-7.322	-2.600	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Correction Quad - 116		Master	-----	-117.000	37.999	207.400	<div><div></div><div></div><div></div><div></div><div></div></div>

AIT Shop Check - Master - Shop Sonde Error Correction Difference

Master (EEPROM):
11:47:19 25-Jan-2014
Expired by 156 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 0	mS/m	Master	-----	-1422.350	222.763	1422.350	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 0		Master	-----	-33895.770	3661.904	33895.770	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 1	mS/m	Master	-----	-1422.350	407.473	1422.350	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 1		Master	-----	-33895.770	11015.150	33895.770	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 2	mS/m	Master	-----	-58.960	-1383.609	58.960	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 2		Master	-----	-512.790	2082.122	512.790	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 3	mS/m	Master	-----	-278.130	23.933	278.130	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 3		Master	-----	-14228.720	2461.547	14228.720	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 4	mS/m	Master	-----	-278.130	150.737	278.130	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 4		Master	-----	-14228.720	-1023.817	14228.720	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 5	mS/m	Master	-----	-22.330	184.158	22.330	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 5		Master	-----	-214.990	-198.229	214.990	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 6	mS/m	Master	-----	-93.730	5.226	93.730	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 6		Master	-----	-5616.320	499.306	5616.320	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 7	mS/m	Master	-----	-93.730	46.860	93.730	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 7		Master	-----	-5616.320	1463.174	5616.320	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 8	mS/m	Master	-----	-12.700	2.583	12.700	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 8		Master	-----	-58.980	121.169	58.980	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 9	mS/m	Master	-----	-38.430	-315.359	38.430	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 9		Master	-----	-525.260	170.289	525.260	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 10	mS/m	Master	-----	-322.050	-245.235	322.050	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 10		Master	-----	-10299.530	3919.626	10299.530	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 11	mS/m	Master	-----	-183.710	10.023	183.710	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 11		Master	-----	-7941.350	-613.975	7941.350	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 12	mS/m	Master	-----	-322.050	82.157	322.050	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 12		Master	-----	-10299.530	-2921.062	10299.530	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 13	mS/m	Master	-----	-38.430	-344.285	38.430	<div><div></div><div></div><div></div><div></div><div></div></div>

Sonde Error Corr Dif Quad - 13		Master	----	-525.260	-257.122	525.260	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 14	mS/m	Master	----	-183.710	77.771	183.710	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 14		Master	----	-7941.350	-171.239	7941.350	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 15	mS/m	Master	----	-131.160	-15.178	131.160	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 15		Master	----	-10322.010	-1831.784	10322.010	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 16	mS/m	Master	----	-131.160	-6.263	131.160	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 16		Master	----	-10322.010	-1526.757	10322.010	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 17	mS/m	Master	----	-10.520	37.662	10.520	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 17		Master	----	-106.620	-108.651	106.620	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 18	mS/m	Master	----	-38.650	-120.193	38.650	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 18		Master	----	-259.430	6.942	259.430	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 19	mS/m	Master	----	-120.810	-80.107	120.810	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 19		Master	----	-5070.680	1925.772	5070.680	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 20	mS/m	Master	----	-56.450	3.826	56.450	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 20		Master	----	-3970.410	-307.837	3970.410	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 21	mS/m	Master	----	-120.810	29.837	120.810	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 21		Master	----	-5070.680	-1444.651	5070.680	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 22	mS/m	Master	----	-38.650	-147.685	38.650	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 22		Master	----	-259.430	-180.423	259.430	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 23	mS/m	Master	----	-56.450	22.930	56.450	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 23		Master	----	-3970.410	-81.200	3970.410	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 24	mS/m	Master	----	-71.000	-11.190	71.000	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 24		Master	----	-5118.910	-915.069	5118.910	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 25	mS/m	Master	----	-71.000	2.351	71.000	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 25		Master	----	-5118.910	-767.849	5118.910	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 26	mS/m	Master	----	-4.790	8.421	4.790	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 26		Master	----	-55.660	-78.929	55.660	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 27	mS/m	Master	----	-73.800	-22.378	73.800	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 27		Master	----	-352.850	175.747	352.850	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 28	mS/m	Master	----	-159.880	137.853	159.880	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 28		Master	----	-6824.670	-3507.436	6824.670	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 29	mS/m	Master	----	-69.240	6.999	69.240	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 29		Master	----	-2661.290	962.876	2661.290	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 30	mS/m	Master	----	-159.880	-86.220	159.880	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 30		Master	----	-6824.670	1957.961	6824.670	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 31	mS/m	Master	----	-73.800	-19.590	73.800	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 31		Master	----	-352.850	96.258	352.850	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 32	mS/m	Master	----	-69.240	36.589	69.240	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 32		Master	----	-2661.290	-498.376	2661.290	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 33	mS/m	Master	----	-58.940	-18.509	58.940	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 33		Master	----	-2490.890	918.361	2490.890	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 34	mS/m	Master	----	-58.940	13.372	58.940	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 34		Master	----	-2490.890	-181.743	2490.890	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 35	mS/m	Master	----	-8.280	119.548	8.280	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 35		Master	----	-9138.350	11.097	9138.350	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 36	mS/m	Master	----	-75.280	-43.774	75.280	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 36		Master	----	-175.090	-23.207	175.090	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 37	mS/m	Master	----	-50.660	23.304	50.660	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 37		Master	----	-3386.630	-1757.764	3386.630	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 38	mS/m	Master	----	-22.870	8.799	22.870	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 38		Master	----	-1332.130	484.581	1332.130	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 39	mS/m	Master	----	-50.660	-14.209	50.660	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 39		Master	----	-3386.630	985.353	3386.630	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 40	mS/m	Master	----	-75.280	-40.418	75.280	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 40		Master	----	-175.090	-72.115	175.090	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 41	mS/m	Master	----	-22.870	12.648	22.870	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 41		Master	----	-1332.130	-246.266	1332.130	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 42	mS/m	Master	----	-46.710	6.914	46.710	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 42		Master	----	-1250.020	457.289	1250.020	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 43	mS/m	Master	----	-46.710	6.670	46.710	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 43		Master	----	-1250.020	-88.723	1250.020	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 44	mS/m	Master	----	-3.760	49.347	3.760	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 44		Master	----	-25.880	55.785	25.880	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 45	mS/m	Master	----	-17.300	-19.647	17.300	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 45		Master	----	-176.360	-17.413	176.360	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>


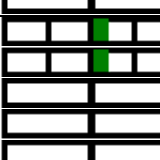
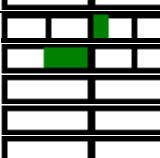
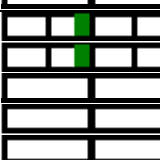
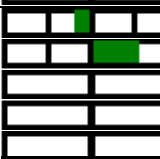
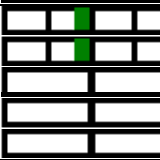

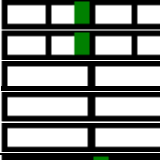
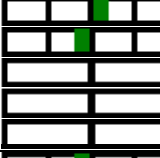
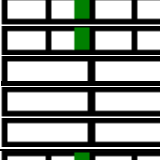
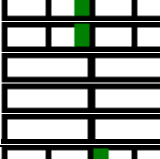
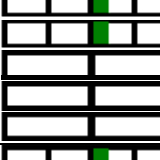

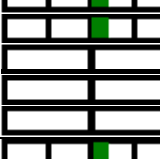
Sonde Error Corr Dif Real - 46	mS/m	Master	-----	-124.190	-32.300	124.190	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 46		Master	-----	-4733.690	964.254	4733.690	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 47	mS/m	Master	-----	-40.710	0.472	40.710	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 47		Master	-----	-1317.910	-4.680	1317.910	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 48	mS/m	Master	-----	-124.190	33.789	124.190	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 48		Master	-----	-4733.690	-1190.814	4733.690	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 49	mS/m	Master	-----	-17.300	-20.521	17.300	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 49		Master	-----	-176.360	134.336	176.360	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 50	mS/m	Master	-----	-40.710	16.334	40.710	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 50		Master	-----	-1317.910	-351.696	1317.910	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 51	mS/m	Master	-----	-21.650	-2.278	21.650	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 51		Master	-----	-1487.450	-249.438	1487.450	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 52	mS/m	Master	-----	-21.650	14.234	21.650	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 52		Master	-----	-1487.450	-595.744	1487.450	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 53	mS/m	Master	-----	-6.870	54.415	6.870	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 53		Master	-----	-22.760	-1.633	22.760	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 54	mS/m	Master	-----	-14.160	-61.840	14.160	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 54		Master	-----	-88.850	-51.466	88.850	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 55	mS/m	Master	-----	-19.500	-7.430	19.500	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 55		Master	-----	-2367.930	481.226	2367.930	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 56	mS/m	Master	-----	-17.070	1.109	17.070	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 56		Master	-----	-661.990	-8.460	661.990	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 57	mS/m	Master	-----	-19.500	6.162	19.500	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 57		Master	-----	-2367.930	-591.383	2367.930	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 58	mS/m	Master	-----	-14.160	-60.009	14.160	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 58		Master	-----	-88.850	23.397	88.850	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 59	mS/m	Master	-----	-17.070	3.651	17.070	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 59		Master	-----	-661.990	-176.331	661.990	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 60	mS/m	Master	-----	-11.090	-1.710	11.090	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 60		Master	-----	-742.280	-130.481	742.280	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 61	mS/m	Master	-----	-11.090	4.375	11.090	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 61		Master	-----	-742.280	-298.028	742.280	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 62	mS/m	Master	-----	-3.800	30.365	3.800	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 62		Master	-----	-13.370	6.655	13.370	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 63	mS/m	Master	-----	-12.070	-23.217	12.070	<div><div></div><div></div><div></div><div></div><div></div></div>

Sonde Error Corr Dif Real - 78	mS/m	Master	----	-6.910	2.930	6.910	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 78		Master	----	-309.500	87.124	309.500	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 79	mS/m	Master	----	-6.910	3.061	6.910	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 79		Master	----	-309.500	6.902	309.500	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 80	mS/m	Master	----	-2.270	15.646	2.270	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 80		Master	----	-5.950	14.130	5.950	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 81	mS/m	Master	----	-14.820	-49.763	14.820	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 81		Master	----	-41.940	229.451	41.940	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 82	mS/m	Master	----	-26.750	-1.485	26.750	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 82		Master	----	-1113.920	63.016	1113.920	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 83	mS/m	Master	----	-22.910	-0.240	22.910	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 83		Master	----	-425.640	-44.671	425.640	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 84	mS/m	Master	----	-26.750	4.056	26.750	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 84		Master	----	-1113.920	-120.759	1113.920	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 85	mS/m	Master	----	-14.820	-47.336	14.820	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 85		Master	----	-41.940	205.636	41.940	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 86	mS/m	Master	----	-22.910	-0.517	22.910	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 86		Master	----	-425.640	-40.151	425.640	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 87	mS/m	Master	----	-17.620	4.296	17.620	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 87		Master	----	-619.330	-244.688	619.330	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 88	mS/m	Master	----	-17.620	2.740	17.620	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 88		Master	----	-619.330	-34.802	619.330	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 89	mS/m	Master	----	-3.910	8.285	3.910	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 89		Master	----	-9.470	128.576	9.470	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 90	mS/m	Master	----	-11.240	-51.027	11.240	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 90		Master	----	-18.450	59.120	18.450	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 91	mS/m	Master	----	-6.130	-0.480	6.130	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 91		Master	----	-563.230	34.625	563.230	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 92	mS/m	Master	----	-13.750	0.372	13.750	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 92		Master	----	-215.560	-25.586	215.560	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 93	mS/m	Master	----	-6.130	1.207	6.130	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 93		Master	----	-563.230	-60.715	563.230	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 94	mS/m	Master	----	-11.240	-48.998	11.240	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 94		Master	----	-18.450	45.902	18.450	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 95	mS/m	Master	----	-13.750	0.459	13.750	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 95		Master	----	-215.560	-24.545	215.560	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 96	mS/m	Master	----	-9.770	2.135	9.770	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 96		Master	----	-316.930	-123.489	316.930	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 97	mS/m	Master	----	-9.770	2.463	9.770	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 97		Master	----	-316.930	-19.370	316.930	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 98	mS/m	Master	----	-2.110	12.359	2.110	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 98		Master	----	-7.370	13.518	7.370	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 99	mS/m	Master	----	-15.930	-61.710	15.930	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 99		Master	----	-35.540	26.053	35.540	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 100	mS/m	Master	----	-22.000	2.768	22.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 100		Master	----	-562.650	-69.622	562.650	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 101	mS/m	Master	----	-29.210	-3.803	29.210	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 101		Master	----	-209.850	51.263	209.850	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 102	mS/m	Master	----	-22.000	0.756	22.000	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 102		Master	----	-562.650	58.896	562.650	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 103	mS/m	Master	----	-15.930	-61.606	15.930	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 103		Master	----	-35.540	2.273	35.540	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 104	mS/m	Master	----	-29.210	-3.898	29.210	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 104		Master	----	-209.850	43.159	209.850	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 105	mS/m	Master	----	-23.810	3.907	23.810	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 105		Master	----	-232.790	97.008	232.790	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 106	mS/m	Master	----	-23.810	1.732	23.810	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 106		Master	----	-232.790	74.321	232.790	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 107	mS/m	Master	----	-10.690	-9.029	10.690	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 107		Master	----	-19.320	2.487	19.320	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 108	mS/m	Master	----	-9.300	-64.332	9.300	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 108		Master	----	-21.950	96.867	21.950	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 109	mS/m	Master	----	-8.990	-0.108	8.990	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Quad - 109		Master	----	-293.930	-32.932	293.930	<div><div></div><div></div><div></div><div></div><div></div></div>
Sonde Error Corr Dif Real - 110	mS/m	Master	----	-16.850	-0.369	16.850	<div><div></div><div></div><div></div><div></div><div></div></div>

		After-Before	----	----	----	----				
Thru Cal Phase - 4	deg	Master	----	-180.000	5.606	180.000				
		Before	----	-180.000	-162.288	180.000				
		After	----	----	----	----				
		Before-Master	----	----	-167.894	----				
		After-Before	----	----	----	----				
Thru Cal Mag - 5	V	Master	----	2.011	3.315	4.693				
		Before	----	2.011	3.316	4.693				
		After	----	----	----	----				
		Before-Master	----	----	0.001	----				
		After-Before	----	----	----	----				
Thru Cal Phase - 5	deg	Master	----	-180.000	-6.456	180.000				
		Before	----	-180.000	177.449	180.000				
		After	----	----	----	----				
		Before-Master	----	----	183.905	----				
		After-Before	----	----	----	----				
Thru Cal Mag - 6	V	Master	----	1.608	2.770	3.752				
		Before	----	1.608	2.774	3.752				
		After	----	----	----	----				
		Before-Master	----	----	0.004	----				
		After-Before	----	----	----	----				
Thru Cal Phase - 6	deg	Master	----	-180.000	6.507	180.000				
		Before	----	-180.000	-165.692	180.000				
		After	----	----	----	----				
		Before-Master	----	----	-172.199	----				
		After-Before	----	----	----	----				
Thru Cal Mag - 7	V	Master	----	1.608	2.809	3.752				
		Before	----	1.608	2.812	3.752				
		After	----	----	----	----				
		Before-Master	----	----	0.003	----				
		After-Before	----	----	----	----				
Thru Cal Phase - 7	deg	Master	----	-180.000	6.190	180.000				
		Before	----	-180.000	-162.858	180.000				
		After	----	----	----	----				
		Before-Master	----	----	-169.048	----				
		After-Before	----	----	----	----				
Thru Cal Mag - 8	V	Master	----	1.608	2.659	3.752				
		Before	----	1.608	2.660	3.752				
		After	----	----	----	----				
		Before-Master	----	----	0.001	----				
		After-Before	----	----	----	----				
Thru Cal Phase - 8	deg	Master	----	-180.000	-5.901	180.000				
		Before	----	-180.000	176.856	180.000				
		After	----	----	----	----				
		Before-Master	----	----	182.757	----				
		After-Before	----	----	----	----				
Thru Cal Mag - 9	V	Master	----	1.174	1.894	2.739				
		Before	----	1.174	1.901	2.739				
		After	----	----	----	----				
		Before-Master	----	----	0.007	----				
		After-Before	----	----	----	----				
Thru Cal Phase - 9	deg	Master	----	-180.000	1.931	180.000				
		Before	----	-180.000	-68.791	180.000				
		After	----	----	----	----				
		Before-Master	----	----	-70.722	----				
		After-Before	----	----	----	----				
Thru Cal Mag - 10	V	Master	----	1.174	1.903	2.739				
		Before	----	1.174	1.910	2.739				
		After	----	----	----	----				
		Before-Master	----	----	0.007	----				
		After-Before	----	----	----	----				
Thru Cal Phase - 10	deg	Master	----	-180.000	4.301	180.000				
		Before	----	-180.000	-63.665	180.000				
		After	----	----	----	----				
		Before-Master	----	----	-67.966	----				
		After-Before	----	----	----	----				
Thru Cal Mag - 11	V	Master	----	1.174	1.891	2.739				
		Before	----	1.174	1.897	2.739				

		After	----	-----	0.006	-----	
		Before-Master	----	-----	-----	-----	
		After-Before	----	-----	-----	-----	
Thru Cal Phase - 11	deg	Master	----	-180.000	-1.440	180.000	
		Before	----	-180.000	-79.391	180.000	
		After	----	---	---	---	
		Before-Master	----	---	-77.951	---	
		After-Before	----	-----	-----	-----	
Thru Cal Mag - 12	V	Master	----	2.122	3.612	4.951	
		Before	----	2.122	3.620	4.951	
		After	----	---	---	---	
		Before-Master	----	---	0.008	---	
		After-Before	----	-----	-----	-----	
Thru Cal Phase - 12	deg	Master	----	-180.000	12.280	180.000	
		Before	----	-180.000	-160.843	180.000	
		After	----	---	---	---	
		Before-Master	----	---	-173.123	---	
		After-Before	----	-----	-----	-----	
Thru Cal Mag - 13	V	Master	----	2.122	3.663	4.951	
		Before	----	2.122	3.668	4.951	
		After	----	---	---	---	
		Before-Master	----	---	0.005	---	
		After-Before	----	-----	-----	-----	
Thru Cal Phase - 13	deg	Master	----	-180.000	11.995	180.000	
		Before	----	-180.000	-158.064	180.000	
		After	----	---	---	---	
		Before-Master	----	---	-170.059	---	
		After-Before	----	-----	-----	-----	
Thru Cal Mag - 14	V	Master	----	2.122	3.467	4.951	
		Before	----	2.122	3.471	4.951	
		After	----	---	---	---	
		Before-Master	----	---	0.004	---	
		After-Before	----	-----	-----	-----	
Thru Cal Phase - 14	deg	Master	----	-180.000	-0.038	180.000	
		Before	----	-180.000	-178.322	180.000	
		After	----	---	---	---	
		Before-Master	----	---	-178.284	---	
		After-Before	----	-----	-----	-----	
Thru Cal Mag - 15	V	Master	----	1.860	3.042	4.340	
		Before	----	1.860	3.053	4.340	
		After	----	---	---	---	
		Before-Master	----	---	0.011	---	
		After-Before	----	-----	-----	-----	
Thru Cal Phase - 15	deg	Master	----	-180.000	1.940	180.000	
		Before	----	-180.000	-69.185	180.000	
		After	----	---	---	---	
		Before-Master	----	---	-71.125	---	
		After-Before	----	-----	-----	-----	
Thru Cal Mag - 16	V	Master	----	1.860	3.056	4.340	
		Before	----	1.860	3.068	4.340	
		After	----	---	---	---	
		Before-Master	----	---	0.012	---	
		After-Before	----	-----	-----	-----	
Thru Cal Phase - 16	deg	Master	----	-180.000	4.321	180.000	
		Before	----	-180.000	-64.037	180.000	
		After	----	---	---	---	
		Before-Master	----	---	-68.358	---	
		After-Before	----	-----	-----	-----	
Thru Cal Mag - 17	V	Master	----	1.860	3.038	4.340	
		Before	----	1.860	3.047	4.340	
		After	----	---	---	---	
		Before-Master	----	---	0.009	---	
		After-Before	----	-----	-----	-----	
Thru Cal Phase - 17	deg	Master	----	-180.000	-1.427	180.000	
		Before	----	-180.000	-79.774	180.000	
		After	----	---	---	---	
		Before-Master	----	---	-78.347	---	
		After-Before	----	-----	-----	-----	

Thru Cal Mag - 18	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.562 0.562 ----- ----- -----	0.957 0.960 ----- 0.003 -----	1.310 1.310 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 18	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	12.184 -160.116 ----- -172.300 -----	180.000 180.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 19	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.562 0.562 ----- ----- -----	0.969 0.970 ----- 0.001 -----	1.310 1.310 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 19	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	11.951 -157.293 ----- -169.244 -----	180.000 180.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 20	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.562 0.562 ----- ----- -----	0.915 0.916 ----- 0.001 -----	1.310 1.310 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 20	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	-0.044 -177.557 ----- -177.513 -----	180.000 180.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 21	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	2.449 2.449 ----- ----- -----	4.039 4.051 ----- 0.012 -----	5.714 5.714 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 21	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	-1.380 -71.386 ----- -70.006 -----	180.000 180.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 22	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	2.449 2.449 ----- ----- -----	4.059 4.071 ----- 0.012 -----	5.714 5.714 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 22	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	0.995 -66.263 ----- -67.258 -----	180.000 180.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 23	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	2.449 2.449 ----- ----- -----	4.034 4.044 ----- 0.010 -----	5.714 5.714 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 23	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	-4.749 -81.994 ----- -77.245 -----	180.000 180.000 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Mag - 24	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.817 0.817 ----- ----- -----	1.390 1.393 ----- 0.003 -----	1.907 1.907 ----- ----- -----	<div><div></div><div></div><div></div><div></div><div></div></div>
Thru Cal Phase - 24	deg	Master Before After	----- ----- -----	-180.000 -180.000 -----	5.848 -165.592 -----	180.000 180.000 -----	<div><div></div><div></div><div></div><div></div><div></div></div>

		Before-Master After-Before	----- -----	----- -----	-171.440 -----	----- -----	
Thru Cal Mag - 25	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.817 0.817 ----- ----- -----	1.407 1.409 ----- 0.002 -----	1.907 1.907 ----- ----- -----	
Thru Cal Phase - 25	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	5.603 -162.795 ----- -168.398 -----	180.000 180.000 ----- ----- -----	
Thru Cal Mag - 26	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.817 0.817 ----- ----- -----	1.329 1.330 ----- 0.001 -----	1.907 1.907 ----- ----- -----	
Thru Cal Phase - 26	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	-6.404 176.962 ----- 183.366 -----	180.000 180.000 ----- ----- -----	
Thru Cal Mag - 27	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	2.449 2.449 ----- ----- -----	4.039 4.051 ----- 0.012 -----	5.714 5.714 ----- ----- -----	
Thru Cal Phase - 27	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	-1.390 -71.408 ----- -70.018 -----	180.000 180.000 ----- ----- -----	
Thru Cal Mag - 28	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	2.449 2.449 ----- ----- -----	4.059 4.071 ----- 0.012 -----	5.714 5.714 ----- ----- -----	
Thru Cal Phase - 28	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	0.989 -66.266 ----- -67.255 -----	180.000 180.000 ----- ----- -----	
Thru Cal Mag - 29	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	2.449 2.449 ----- ----- -----	4.034 4.044 ----- 0.010 -----	5.714 5.714 ----- ----- -----	
Thru Cal Phase - 29	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	-4.763 -82.006 ----- -77.243 -----	180.000 180.000 ----- ----- -----	
Thru Cal Mag - 30	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.817 0.817 ----- ----- -----	1.390 1.393 ----- 0.003 -----	1.907 1.907 ----- ----- -----	
Thru Cal Phase - 30	deg	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	-180.000 -180.000 ----- ----- -----	5.837 -165.612 ----- -171.449 -----	180.000 180.000 ----- ----- -----	
Thru Cal Mag - 31	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.817 0.817 ----- ----- -----	1.407 1.409 ----- 0.002 -----	1.907 1.907 ----- ----- -----	
Thru Cal Phase - 31	deg	Master	-----	-180.000	5.608	180.000	

		Before	----	-180.000	-162.797	180.000	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	-168.405	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 32	V	Master	----	0.817	1.329	1.907	<div><div></div><div></div><div></div></div>
		Before	----	0.817	1.330	1.907	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.001	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 32	deg	Master	----	-180.000	-6.408	180.000	<div><div></div><div></div><div></div></div>
		Before	----	-180.000	176.929	180.000	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	183.337	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 33	V	Master	----	0.732	1.165	1.708	<div><div></div><div></div><div></div></div>
		Before	----	0.732	1.169	1.708	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.004	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 33	deg	Master	----	-180.000	-1.136	180.000	<div><div></div><div></div><div></div></div>
		Before	----	-180.000	-72.468	180.000	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	-71.332	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 34	V	Master	----	0.732	1.167	1.708	<div><div></div><div></div><div></div></div>
		Before	----	0.732	1.170	1.708	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.003	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 34	deg	Master	----	-180.000	1.266	180.000	<div><div></div><div></div><div></div></div>
		Before	----	-180.000	-67.333	180.000	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	-68.599	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 35	V	Master	----	0.732	1.155	1.708	<div><div></div><div></div><div></div></div>
		Before	----	0.732	1.158	1.708	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.003	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 35	deg	Master	----	-180.000	-4.465	180.000	<div><div></div><div></div><div></div></div>
		Before	----	-180.000	-83.047	180.000	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	-78.582	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 36	V	Master	----	0.981	1.644	2.289	<div><div></div><div></div><div></div></div>
		Before	----	0.981	1.647	2.289	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.003	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 36	deg	Master	----	-180.000	6.438	180.000	<div><div></div><div></div><div></div></div>
		Before	----	-180.000	-166.573	180.000	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	-173.011	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 37	V	Master	----	0.981	1.665	2.289	<div><div></div><div></div><div></div></div>
		Before	----	0.981	1.667	2.289	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.002	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Phase - 37	deg	Master	----	-180.000	6.193	180.000	<div><div></div><div></div><div></div></div>
		Before	----	-180.000	-163.774	180.000	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	-169.967	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
Thru Cal Mag - 38	V	Master	----	0.981	1.573	2.289	<div><div></div><div></div><div></div></div>
		Before	----	0.981	1.574	2.289	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		Before-Master	----	----	0.001	----	<div><div></div><div></div><div></div></div>

AIT Electronics Check - Auxiliary Measurements Reference Check

Master (EEPROM):
03:09:36 14-Dec-2012
Expired by 563 days

Before (Measured):
17:40:17 25-Sep-2014
Expired by 2 days

After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
SPA Zero	mV	Master		-0.050	0.000	0.050	
		Before		-50.000	-1.530	50.000	
		After	----	----	----	----	
		Before-Master	----	----	-1.530	----	
		After-Before	----	----	----	----	
SPA Plus	mV	Master		0.757	0.000	0.915	
		Before		756.500	842.237	915.400	
		After	----	----	----	----	
		Before-Master	----	----	842.237	----	
		After-Before	----	----	----	----	
Temperature Zero	V	Master		-0.050	0.000	0.050	
		Before		-0.050	-0.003	0.050	
		After	----	----	----	----	
		Before-Master	----	----	-0.003	----	
		After-Before	----	----	----	----	
Temperature Plus	V	Master		0.880	0.000	1.076	
		Before		0.880	0.988	1.076	
		After	----	----	----	----	
		Before-Master	----	----	0.988	----	
		After-Before	----	----	----	----	
Voltage Zero	V	Master		-0.100	0.000	0.100	
		Before		-0.100	-0.008	0.100	
		After	----	----	----	----	
		Before-Master	----	----	-0.008	----	
		After-Before	----	----	----	----	
Voltage Plus	V	Master		4.500	0.000	5.500	
		Before		4.500	5.014	5.500	
		After	----	----	----	----	
		Before-Master	----	----	5.014	----	
		After-Before	----	----	----	----	

AIT Electronics Check - Power Supply Check

Master (EEPROM):
03:09:36 14-Dec-2012
Expired by 563 days

Before (Measured):
17:40:17 25-Sep-2014
Expired by 2 days

After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Power Supply - 0	V	Master	----	-14.000	-13.037	-12.000	
		Before	----	-14.000	-13.035	-12.000	
		After	----	----	----	----	
		Before-Master	----	----	0.002	----	
		After-Before	----	----	----	----	
Power Supply - 1	V	Master	----	12.000	13.037	14.000	
		Before	----	12.000	13.035	14.000	
		After	----	----	----	----	
		Before-Master	----	----	-0.002	----	
		After-Before	----	----	----	----	
Power Supply - 2	V	Master	----	-14.000	-13.024	-12.000	
		Before	----	-14.000	-13.023	-12.000	
		After	----	----	----	----	
		Before-Master	----	----	0.001	----	
		After-Before	----	----	----	----	
Power Supply - 3	V	Master	----	12.000	12.972	14.000	
		Before	----	12.000	12.978	14.000	
		After	----	----	----	----	
		Before-Master	----	----	0.006	----	
		After-Before	----	----	----	----	
Power Supply - 4	V	Master	----	15.000	18.129	31.000	
		Before	----	15.000	20.761	31.000	
		After	----	----	----	----	
		Before-Master	----	----	2.632	----	
		After-Before	----	----	----	----	
Power Supply - 5	V	Master	----	1.600	1.811	2.000	
		Before	----	1.600	1.812	2.000	
		After	----	----	----	----	
		Before-Master	----	----	0.001	----	
		After-Before	----	----	----	----	
Power Supply - 6	V	Master	----	2.200	2.487	2.800	
		Before	----	2.200	2.487	2.800	
		After	----	----	----	----	
		Before-Master	----	----	0.001	----	
		After-Before	----	----	----	----	

Power Supply - 6	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	2.200 ----- ----- ----- -----	2.487 2.489 ----- 0.002 -----	2.800 ----- ----- ----- -----	
Power Supply - 7	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	3.000 3.000 ----- ----- -----	3.265 3.266 ----- 0.001 -----	3.700 3.700 ----- ----- -----	
Power Supply - 8	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	4.500 4.500 ----- ----- -----	4.967 4.969 ----- 0.002 -----	5.600 5.600 ----- ----- -----	
Power Supply - 9	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.100 0.100 ----- ----- -----	0.187 0.186 ----- -0.001 -----	0.400 0.400 ----- ----- -----	
Power Supply - 10	V	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	0.100 0.100 ----- ----- -----	0.192 0.191 ----- -0.001 -----	0.400 0.400 ----- ----- -----	

GPIT-F (General-Purpose Inclinometer Tool) Calibration - Run TWO

Primary Equipment :

DHRU-F

DHRU-F

Signals and Temperature Correction for Accelerometers

Master (EEPROM): 00:00:00 25-Mar-2007

GPITF_ACCX_MODEL GPIT-F Accelero X Model
(Master)

	Racx**0	Racx**1
Temp**0	0.01004	0.0006686
Temp**1	-0.0002973	-7.547E-08
Temp**2	7.824E-06	5.155E-10
Temp**3	-3.246E-08	-3.304E-12

GPITF_ACCY_MODEL GPIT-F Accelero Y Model
(Master)

	Racy**0	Racy**1
Temp**0	0.02525	-0.0006675
Temp**1	0.0001103	7.694E-08
Temp**2	-6.932E-06	-5.726E-10
Temp**3	2.529E-08	3.514E-12

GPITF_ACCZ_MODEL GPIT-F Accelero Z Model
(Master)

	Racz**0	Racz**1
Temp**0	0.0332	0.0006767
Temp**1	-0.0003086	-8.402E-08
Temp**2	5.16E-06	5.923E-10
Temp**3	-2.277E-08	-3.469E-12

Perpendicular Correction for Accelerometers

Master (EEPROM): 00:00:00 25-Mar-2007

GPITF_ACC_AXIS_MODE GPIT-F Accelero Axis Model
(Master)

L (Master)	Data**0	Data**1	Data**2	Data**3	Data**4	Data**5	Data**6
Temp**0	0.001837	-0.0004671	-0.0008078	-3.386E-05	-1.416E-05	0.0004458	0
Temp**1	-2.085E-06	-6.004E-06	6.579E-06	-9.407E-07	1.657E-06	1.694E-06	0

Signals and Temperature Correction for Magnetometer

Master (EEPROM):		00:00:00 25-Mar-2007	
GPITF_MAGX_MODEL GPIT-F Magneto X Model (Master)			
	Rmagx**0	Rmagx**1	
Temp**0	181.8	4.865	
Temp**1	-3.717	-0.0002706	
Temp**2	0.05241	4.475E-06	
Temp**3	-0.000188	-1.877E-08	
GPITF_MAGY_MODEL GPIT-F Magneto Y Model (Master)			
	Rmagy**0	Rmagy**1	
Temp**0	-84.65	-4.938	
Temp**1	-0.4524	0.0004073	
Temp**2	0.01529	-5.572E-06	
Temp**3	-5.748E-05	2.272E-08	
GPITF_MAGZ_MODEL GPIT-F Magneto Z Model (Master)			
	Rmagz**0	Rmagz**1	
Temp**0	-79.15	4.879	
Temp**1	0.5691	-0.0003812	
Temp**2	-0.02047	5.573E-06	
Temp**3	6.838E-05	-2.26E-08	

Perpendicular Correction for Magnetometer

Master (EEPROM): 00:00:00 25-Mar-2007							
GPITF_MAG_AXIS_MODE GPIT-F Magneto Axis Model L (Master)							
	Data**0	Data**1	Data**2	Data**3	Data**4	Data**5	Data**6
Temp**0	-0.0006571	0.003886	0.001791	0.005535	7.441E-05	-0.005725	0
Temp**1	-3.933E-06	-3.186E-06	5.509E-06	4.485E-07	-2.703E-06	1.894E-07	0

Master (EEPROM):		00:00:00 23-Mar-2007
GPITF_ELEC_COEFF1 GPIT-F Electronic Coeff 1		
(Master)		
	Data**0	Data**1
Temp**0	-0.8952	249.9
Temp**1	0.01395	0.008198
Temp**2	1.39E-05	-0.0002052
Temp**3	-1.841E-06	1.995E-06
Temp**4	9.326E-09	-7.143E-09
GPITF_ELEC_COEFF2 GPIT-F Electronic Coeff 2		
(Master)		
	Data**0	Data**1
Temp**0	-0.5616	250
Temp**1	0.028	0.007144

Temp**2	-0.0002619	-0.0001819
Temp**3	4.204E-07	1.851E-06
Temp**4	1.833E-09	-6.841E-09
GPITF_ELEC_COEFF3 GPIT-F Electronic Coeff 3 (Master)		
	Data**0	Data**1
Temp**0	-3.372	249.8
Temp**1	0.02644	0.01735
Temp**2	-0.0001189	-0.0003523
Temp**3	-5.303E-07	3.076E-06
Temp**4	4.865E-09	-1E-08

Master (EEPROM): 00:00:00 23-Mar-2007		
GPITF_ELEC_COEFF4 GPIT-F Electronic Coeff 4 (Master)		
	Data**0	Data**1
Temp**0	-0.4945	0.128
Temp**1	0.02399	4.302E-06
Temp**2	-0.000384	-1.071E-07
Temp**3	3.061E-06	1.025E-09
Temp**4	-8.516E-09	-3.602E-12
GPITF_ELEC_COEFF5 GPIT-F Electronic Coeff 5 (Master)		
	Data**0	Data**1
Temp**0	-0.4945	0.128
Temp**1	0.02399	4.302E-06
Temp**2	-0.000384	-1.071E-07
Temp**3	3.061E-06	1.025E-09
Temp**4	-8.516E-09	-3.602E-12
GPITF_ELEC_COEFF6 GPIT-F Electronic Coeff 6 (Master)		
	Data**0	Data**1
Temp**0	-0.4945	0.128
Temp**1	0.02399	4.302E-06
Temp**2	-0.000384	-1.071E-07
Temp**3	3.061E-06	1.025E-09
Temp**4	-8.516E-09	-3.602E-12

PPC-B (Powered Positioning device and Caliper.) Calibration - Run TWO

Primary Equipment :

PPC-B Element is used for usual logging at wellsite and check/diagnostics.

PPC-B

8195

Auxiliary Equipment :

PPC-B Element is used for usual logging at wellsite and check/diagnostics.

PPC-B

8195

Calibration Parameter :

ZERO_REF

PLUS_REF

Equipment Properties :

Caliper Arm Equipment Type for PPC

PPC_CAL_STD

PPC Check - Downhole Electronics Test

Before (Measured):		19:12:26 28-Sep-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Positive Analog Voltage	V	Before		7	8.6625	9	
Minus Analog Voltage	V	Before		-9	-8.70879	-7	
Digital Voltage	V	Before		3.15	3.38135	3.45	
Digital Voltage for Analog Digital Converter	V	Before		4.5	5.01152	5.5	
Status Word of Analog Digital Converter Offset		Before		-8	1.72222	8	

PPC Check - Cartridge Temperature Test

Before (Measured):		19:12:26 28-Sep-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Cartridge Temperature	degF	Before		-58	59.3242	482	

PPC Check - Power Control LVDT Test

Before (Measured):		19:12:26 28-Sep-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
LVDT5 Caliper Open Position	in	Before			-1.26123		
LVDT5 Full Power Position	in	Before			1.38293		

PPC Diagnostics - Arm Close Position Test

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Caliper-arm 1, radius raw - 0	in	Master	----	----	----	----	
Caliper-arm 2, radius raw - 0	in	Master	----	----	----	----	
Caliper-arm 3, radius raw - 0	in	Master	----	----	----	----	
Caliper-arm 4, radius raw - 0	in	Master	----	----	----	----	
Power Control LVDT - 0	in	Master	----	----	----	----	
LVDT excitation - 0	V	Master	----	----	----	----	

PPC Diagnostics - Downhole Electronics Test

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Positive Analog Voltage - 0	V	Master	----	----	----	----	
Minus Analog Voltage - 0	V	Master	----	----	----	----	
Digital Voltage - 0	V	Master	----	----	----	----	
Digital Voltage for Analog Digital Converter - 0	V	Master	----	----	----	----	
Status Word of Analog Digital Converter Offset - 0		Master	----	----	----	----	

PPC Diagnostics - RBS Test

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Relative Bearing - 0	deg	Master	----	----	----	----	
Potentiometer Excitation - 0	V	Master	----	----	----	----	

PPC Diagnostics - Cartridge Temperature Test

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Cartridge Temperature - 0	degF	Master	----	----	----	----	

PPC Diagnostics - Power Control LVDT Test

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
LVDT5 Caliper Open Position - 0	in	Master	----	----	----	----	
LVDT5 Full Power Position - 0	in	Master	----	----	----	----	

PPC LVDT5 Master Calibration - PPC CaliCoefficients

Master (EEPROM):		11:32:00 17-Sep-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CCS	in	Master	-1.51		-1.44141		
COP	in	Master	-1.31		-1.26123		
CPW	in	Master	1.41		1.38293		

PPC Caliper Calibration - PPC CaliCoefficients

Before (Manual Entry):		00:56:38 29-Sep-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RD1_GAIN		Before	1	0.85	1.09121	1.15	
		After					

		After-Before	----	----	----	----	
RD2_GAIN		Before	1	0.85	1.00389	1.15	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RD3_GAIN		Before	1	0.85	1.02498	1.15	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RD4_GAIN		Before	1	0.85	1.01338	1.15	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RD1_OFFSET	in	Before	0	-2.2	-2	2.6	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RD2_OFFSET	in	Before	0	-2.2	-0.346051	2.6	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RD3_OFFSET	in	Before	0	-2.2	-1.62038	2.6	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RD4_OFFSET	in	Before	0	-2.2	-0.458054	2.6	
		After	----	----	----	----	
		After-Before	----	----	----	----	

PPC Caliper Calibration - PPC Accumulations

Before (Manual Entry):		00:56:38 29-Sep-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Caliper 1 Zero Radius - 0	in	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	
Caliper 2 Zero Radius - 0	in	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	
Caliper 3 Zero Radius - 0	in	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	
Caliper 4 Zero Radius - 0	in	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	
Caliper 1 Plus Radius - 0	in	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	
Caliper 2 Plus Radius - 0	in	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	
Caliper 3 Plus Radius - 0	in	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	
Caliper 4 Plus Radius - 0	in	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	

EDTC-B (Enhanced Digital Telemetry Cartridge - Version B) Calibration - Run TWO

Primary Equipment :		EDTC-B		EDTC-B			
Calibration Parameter :		Plus Reference (Jig minus background reference)		165			

EDTC-B Accelerometer Calibration - EDTC-B Accelerometer Calibration

Before (Measured):		19:12:31 28-Sep-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	ft/s2	Before	32.19	31.53	32.15	32.84	

EDTC-B Memory Data - EDTC-B Memory Data

Master (EEPROM):		00:42:48 29-Sep-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Initial PMT HV	V	Master			1440.000		

Initial FWHM FWHM	v	Master			1448.000		
Accelerometer Serial Number		Master			1562		
Accelerometer Coefficients - 0		Master	-----	-----	2.955	-----	
Accelerometer Coefficients - 1		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 2		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 4		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 7		Master	-----	-----	-0.006	-----	
Accelerometer Coefficients - 8		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 9		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 10		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 11		Master	-----	-----	0.000	-----	
Gamma-Ray Detector Serial Number		Master			79498		

EDTC-B Gamma-Ray Calibration - Gamma Ray Coefficients

Before:		After:					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Gain		Before	1.000	0.900	NOT DONE	1.100	
		After	----	----	----	----	
		After-Before	----	----	----	----	

EDTC-B Gamma-Ray Calibration - Gamma Ray Accumulations

Before:		After:					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement - 0	gAPI	Before	----	----	----	----	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before			NOT DONE		
		After			NOT DONE		
		After-Before	----	----	----	----	

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

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	----	----	----	----	

Company:	Southwestern Energy Production Company	Schlumberger
Well:	Diamond T Sheep 7 92 1 26	
Field:	Sand Wash Basin Niobrara	
County:	Moffat	
Country:	US	
Platform Express		
Triple Combo		