

Company: CONOCOPHILLIPS CANADA RESOURCES CORP.

Well: COPRC DODO CANYON E76

Field: DODO CANYON

Province: NORTHWEST TERRITORIES

PLATFORM EXPRESS ***MD***

HALF SCALE LOG

Province:	NORTHWEST TERRITORIES		
Field:	DODO CANYON		
Location:	UNIT E SECTION 76		
Well:	COPRC DODO CANYON E76		
Company:	CONOCOPHILLIPS CANADA RESOURCES CO		
Location:		Elev.: K.B. 273.40 m	
UNIT E SECTION 76		G.L. 268.20 m	
300E766510126450		D.F. 273.10 m	
NORTHING: 7219874.66		EASTING: 594010.01	
Permanent Datum:	Ground Level	Elev.:	268.20
Log Measured From:	Kelly Bushing	5.20 m	above Perm.Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.		Longitude:	Latitude:
EL470		126° 59' 58" W	65° 5' 27" N

Logging Date	14-Jan-2014		
Run Number	1.1		
Depth Driller	1908.00 m		
Schlumberger Depth	1819.10 m		
Bottom Log Interval	1816.69 m		
Top Log Interval	603.00 m		
Casing Driller Size @ Depth	244.5 mm @ 603.00 m		
Casing Schlumberger	603 m		
Bit Size	222 mm		
Type Fluid In Hole	INVERT		
Density	Viscosity	75 s	
Fluid Loss	PH		
Source of Sample	N/A		
RM @ Meas Temp	N/A		
RMF @ Meas Temp	N/A		
RMC @ Meas Temp	N/A		
Source RMF	RMC	N/A	
RM @ BHT	RMF @ BHT	N/A	
Max Recorded Temperatures	71.5 degC		
Circulation Stopped	Time	07:20:00	
Logger on Bottom	Time	14-Jan-2014 18:25:00	
Unit Number	Location:	3139	JEFFREY TATLOCK
Recorded By			GRANDE PRAIRIE
Witnessed By			DAVID LAWRENCE

Disclaimer

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Contents

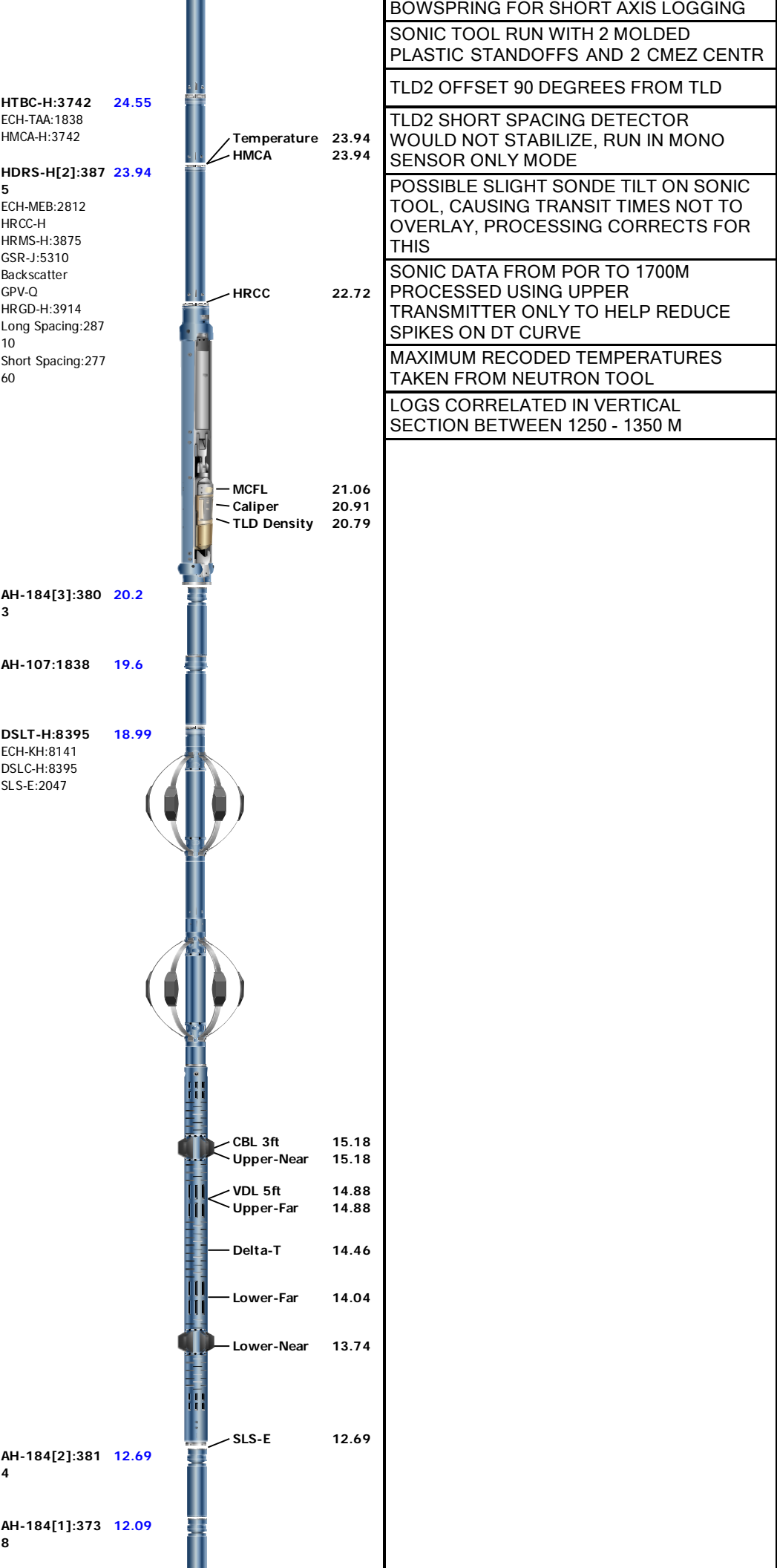
- 1. Header
- 2. Disclaimer
- 3. Contents
- 4. Borehole Fluids
- 5. Remarks and Equipment Summary
- 6. Depth Summary
- 7. 1.1
 - 7.1 Integration Summary
 - 7.2 Software Version
 - 7.3 Composite Summary
 - 7.4 Log (HALFSCALE)
 - 7.5 Parameter Listing
- 8. Calibration Report
- 9. Tail

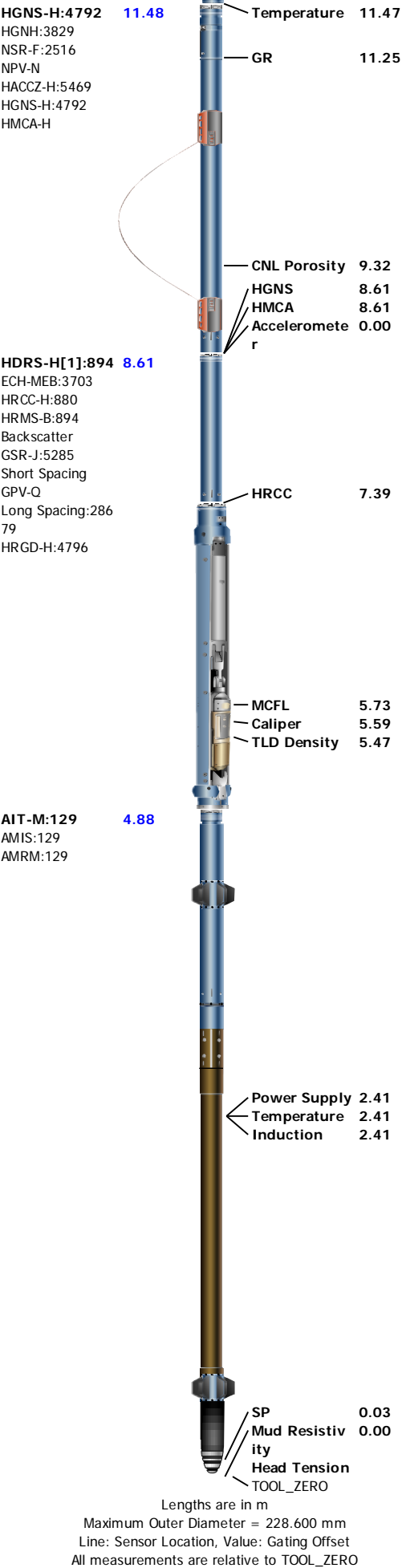
Borehole Fluids

Parameter(unit)	1.1					
Fluid Type	Oil					
Fluid Name	INVERT					
Max Recorded Temperatures (degC)	71.5					
Source of Sample	N/A					
Salinity (ppm)	0					
Density (kg/m3)	1025					
Funnel Viscosity (s)	75					
Fluid Loss (cm3)						
PH						
Date/Time Circulation Stopped	14-Jan-2014 07:20:00					
Date Logger on Bottom	14-Jan-2014					
Time Logger on Bottom	18:25:00					
Source RMF	N/A					
RMC	N/A					
RM @ Meas Temp (ohm.m@degC)	N/A					
RMF @ Meas Temp (ohm.m@degC)	N/A					
RMC @ Meas Temp (ohm.m@degC)	N/A					
RM @ BHT (ohm.m@degC)	N/A					
RMF @ BHT (ohm.m@degC)	N/A					
RMC @ BHT (ohm.m@degC)	N/A					
Electricity Stability (V)						
Oil/Water						
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary

1.1: Toolstring				1.1: Remarks	
<div><div><div>Equip name</div><div>LEH-QT:2850</div><div>LEH-QT:2850</div></div><div><div>DTC-H:9100</div><div>ECH-KC:10172</div><div>DTC-H:9100</div></div><div><div>SGT-N:10447</div><div>SGH-K:3210</div><div>SGC-TB:10447</div><div>SGD-TAA</div></div></div> <div><div>Length</div><div>28.03</div></div> <div></div> <div><div>MP name</div><div></div></div> <div><div>Offset</div><div></div></div>	ALL INTERVALS AND PRESENTATIONS AS PER CLIENT REQUEST				
	RIG: BEAVER 2				
	SLB CREW: JASON LEGASSIE				
	LOGGER REQUESTED AT: 10:30 14-JAN-2014				
	LOGGER ARRIVED AT: 09:30 14-JAN-2014				
	RIG READY AT: 15:45 14-JAN-2014				
	INDUCTION TOOL RUN WITH 38.1 MM STANDOFFS IN COMPUTE MUD RESISTIVITY MODE				
	NEUTRON TOOL RUN WITH DUAL AXIS				





Depth Summary

1.1

Depth Measuring Device

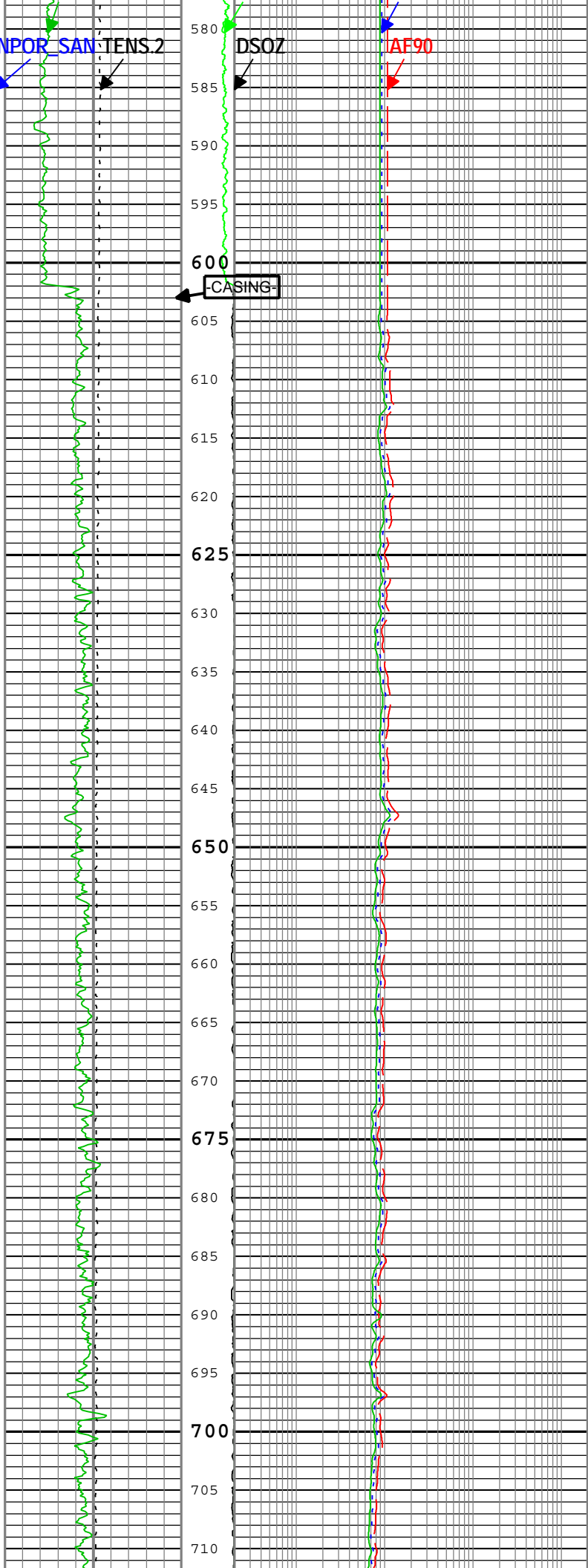
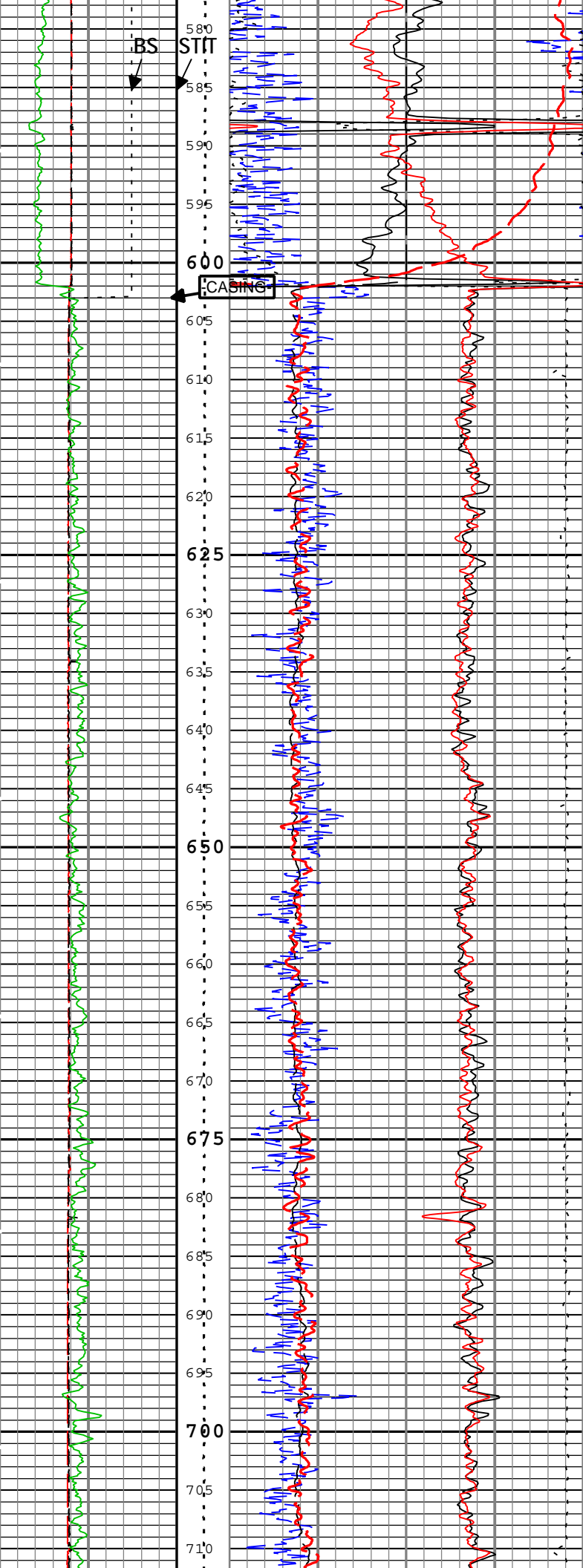
Depth Measuring Device									
Type	IDW-JA								
Serial Number	6162								
Calibration Date	10-MAY-2010								
Calibrator Serial Number	4								
Calibration Cable Type	7-39 PLXS								
Wheel Correction 1	-3								
Wheel Correction 2	1								
Tension Device									
Type	CMTD-B/A								
Serial Number	1293								
Calibration Date	06-SEP-2013								
Calibrator Serial Number	1111								
Number of Calibration Points	10								
Calibration Root Mean Square Error	28								
Calibration Peak Error	54								
Logging Cable									
Type	7-39P-LXS								
Serial Number									
Length	3100.00 m								
Conveyance Type	Wireline								
Rig Type									
1.1:Depth Control Parameters					Depth Control Remarks				
Log Sequence	First Log In the Well				ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED				
Rig Up Length At Surface	56.06 m				IDW USED AS PRIMARY DEPTH CONTROL				
Rig Up Length At Bottom	56.02 m				Z-CHART USED AS SECONDARY DEPTH CONTROL				
Rig Up Length Correction	0.04 m				ALL LOGS CORRELATED TO DOWN LOG IN VERTICAL SECTION BETWEEN 1250 - 1350 M				
Stretch Correction	1.27 m								
Tool Zero Check At Surface	0.30 m								
1.1									
Software Version									
Acquisition System						Version			
MaxWell						4.0.9163.3000			
Application Patch						Patch-SP-10767_13075-4.0.9163.3001			
Computation	Description							Version	
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels							4.0.9213.3000	
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections							4.0.9033.3000	
DepthCorrection	DepthCorrection							4.0.9213.3000	
Tool Elements	Description				Software Version			Firmware Version	
HRCC-H	HILT High-Resolution Control Cartridge, 150 degC				4.0.9231.3000			2.0	
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC				4.0.9231.3000			2.0	
HRGD-H	HILT Resistivity Gamma-Ray Density Device, 150 degC				4.0.9231.3000			3.0	
AMIS	Array Induction Sonde - M				4.0.9247.3000			1	
Pass Summary									
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	DSC Mode	Depth Shift	Include Parallel Data
1.1	Log[5]:Up	Up	543.85 m	1822.88 m	14-Jan-2014 6:48:20 PM	14-Jan-2014 8:17:20 PM	ON	-1.90 m	Yes
All depths are referenced to toolstring zero									
Log	Company:CONOCOPHILLIPS CANADA RESOURCES CORP.						Well:COPRC DODO CANYON E76		

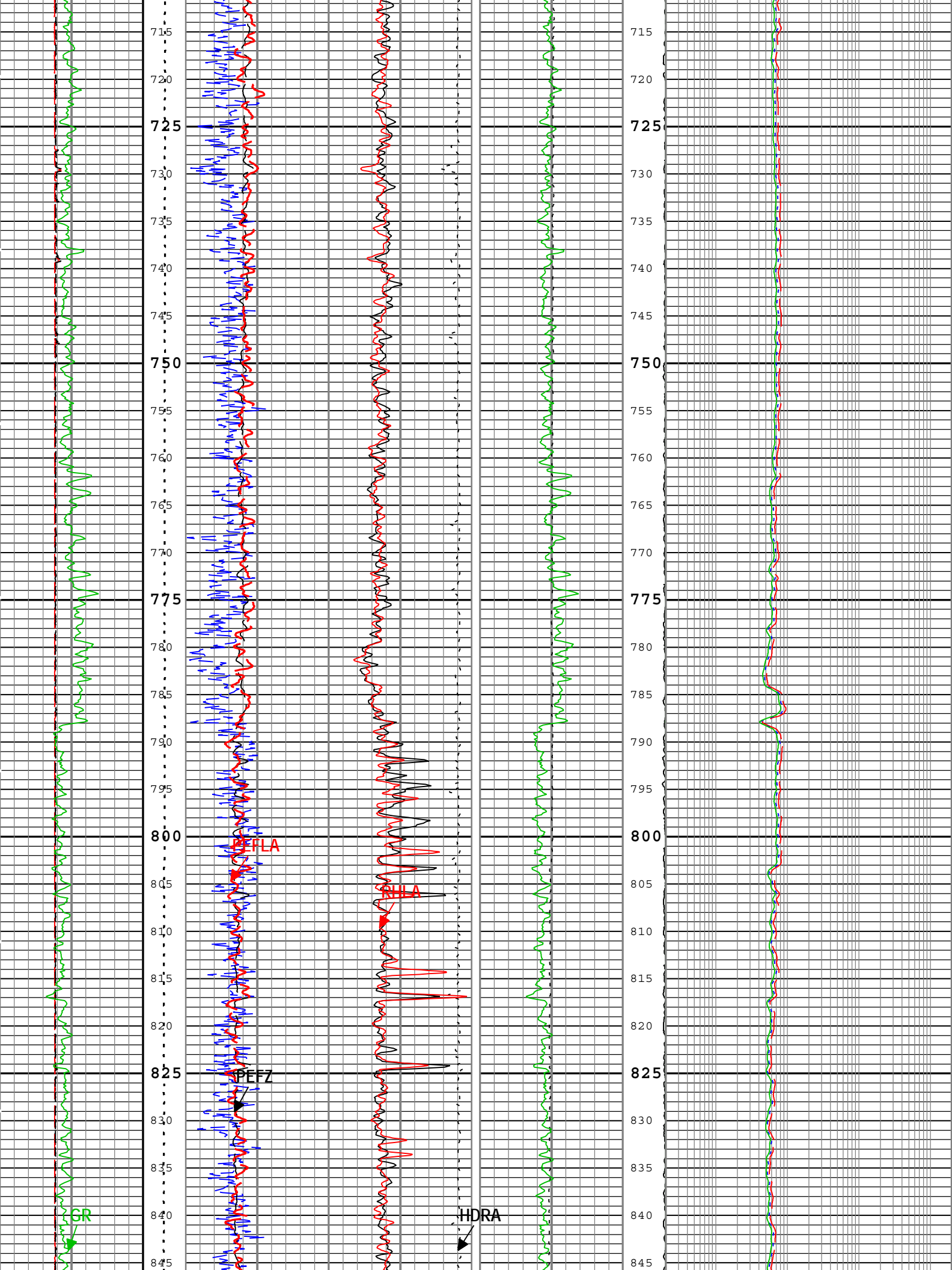
Description: MCFL processing LQC for Platform Express Format: Log (HALFSCALE) Index Scale: 1:480 Index Unit: m Index Type: Measured Depth
 Creation Date: 15-Jan-2014 01:19:06

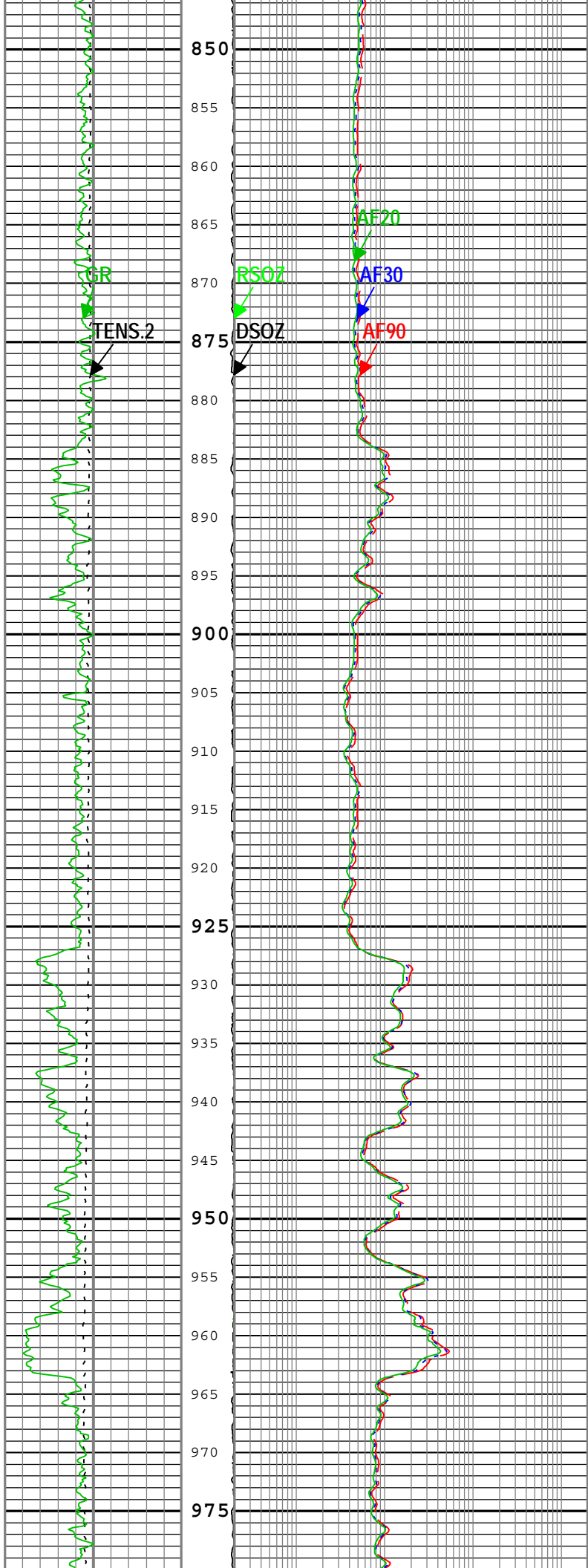
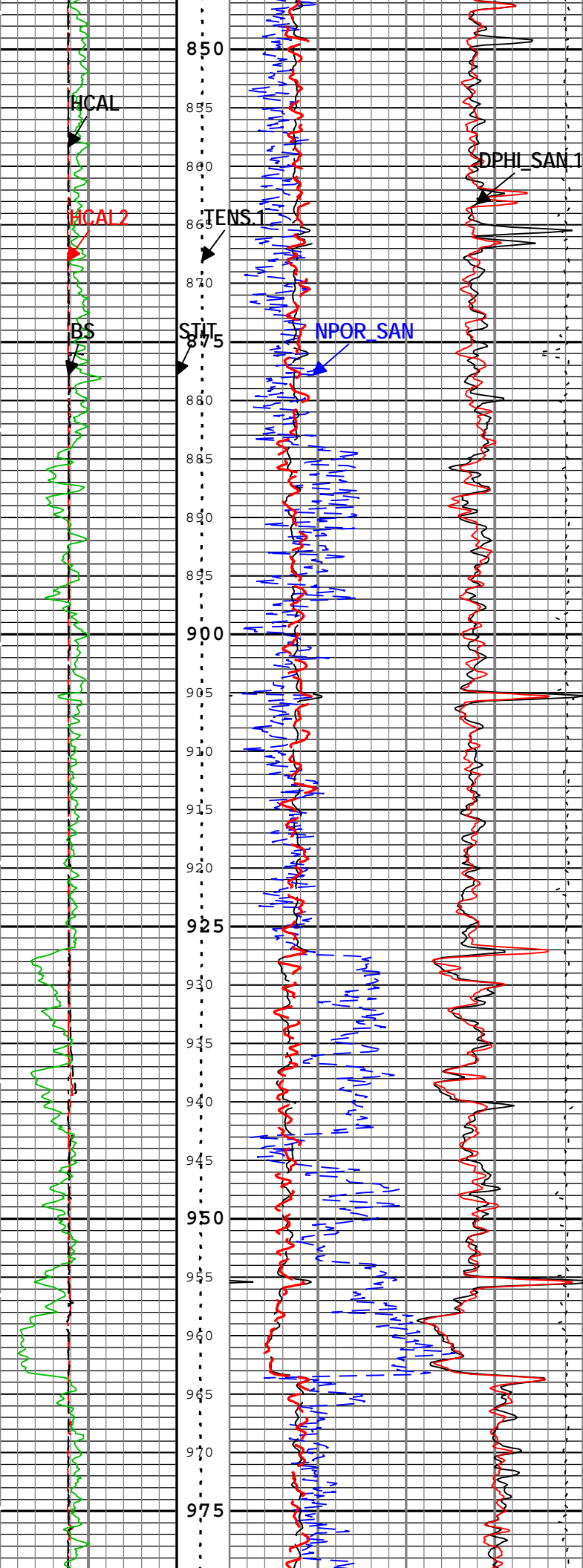
Channel	Source	Sampling
AF20	AIT-M:AMIS:AMIS	3in
AF30	AIT-M:AMIS:AMIS	3in
AF90	AIT-M:AMIS:AMIS	3in
BS	Borehole	6in
CALI.1	HDRS-H[1]:HRCC-H:HRCC-H	1in
CALI.2	HDRS-H[2]:HRCC-H:HRCC-H	1in
DPHI_SAN.1	HDRS-H[1]:HRMS-H:HRGD-H	6in
DPHI_SAN.2	HDRS-H[2]:HRMS-H:HRGD-H	6in
DSOZ	HDRS-H[1]:HRMS-H:HRGD-H	2in
GR_CAL	HGNS-H:HGNS-H:HGNS-H	6in
HDRA	HDRS-H[1]:HRMS-H:HRGD-H	2in
NPOR_SAN	HGNS-H:HGNS-H:HGNS-H	6in
PEFLA	HDRS-H[2]:HRMS-H:HRGD-H	2in
PEFZ	HDRS-H[1]:HRMS-H:HRGD-H	2in
RHLA	HDRS-H[2]:HRMS-H:HRGD-H	2in
RSOZ	HDRS-H[1]:HRMS-H:HRGD-H	2in
STIT	DepthCorrection	6in
TENS.1	WLWorkflow	1in
TENS.2	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

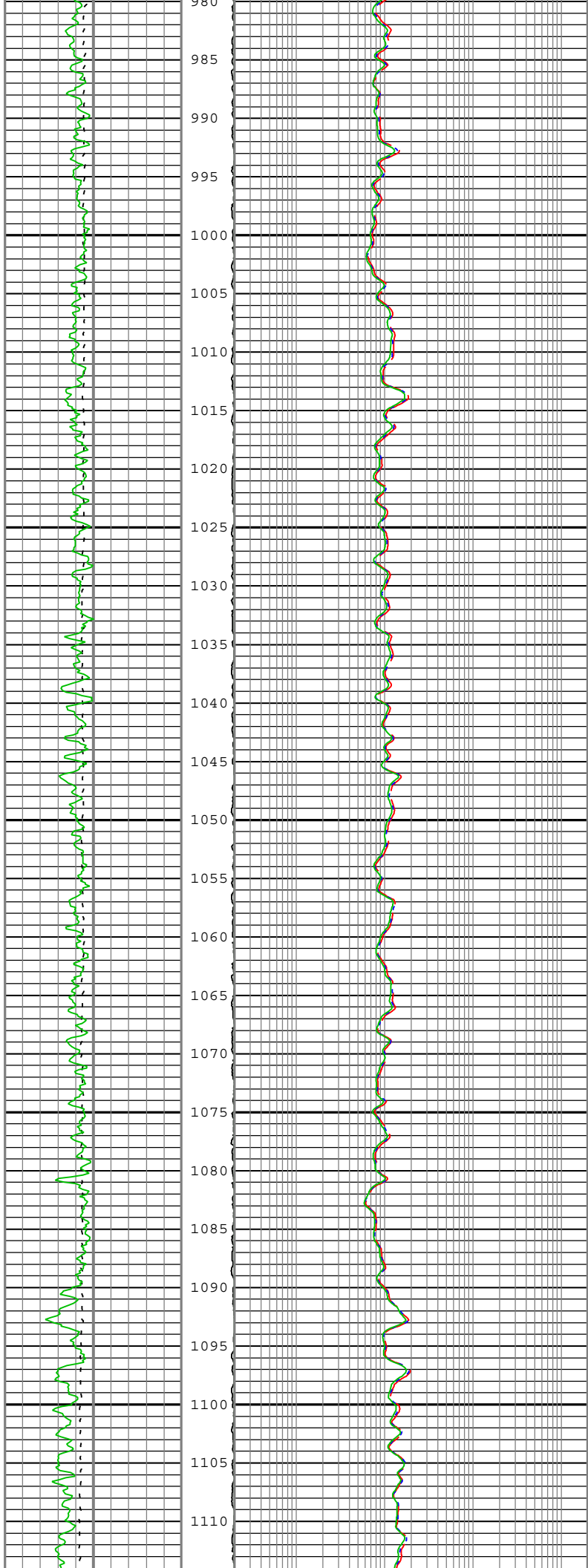
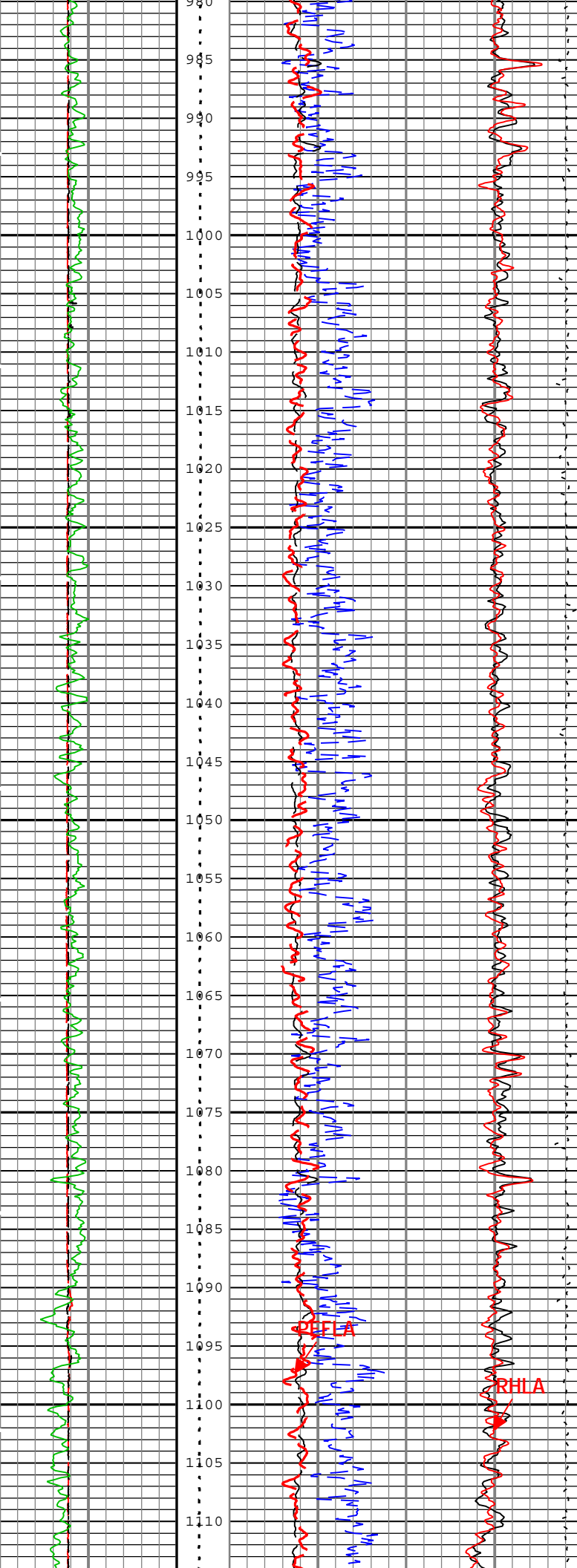
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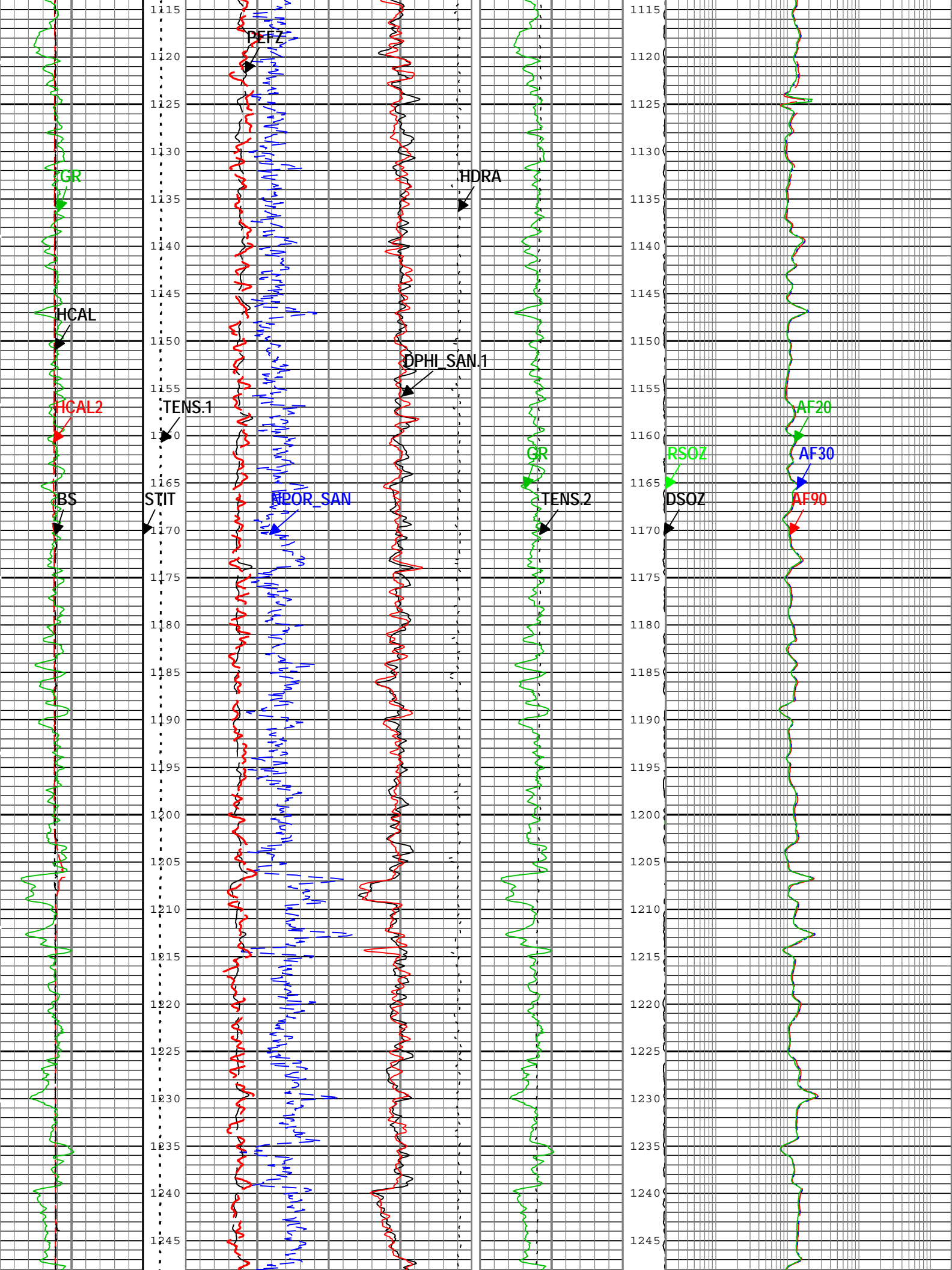
			Enhanced Thermal Neutron Porosity (matrix Sandstone) (NPOR_SAN) HGNS-H			Standard Resolution Density Stand off (DSOZ) HDRS-H[1]				
			0.45	m3/m3	-0.15					
			DPHI_SAN2							
			0.45	m3/m3	-0.15					
			Density Porosity (matrix Sandstone) (DPHI_SAN).1 HDRS-H[1]							
			0.45	m3/m3	-0.15	500 mm				
			Density Standoff Correction (HDRA) HDRS-H[1]							
			950	kg/m3	-50					
			Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H[1]							
			0		20					
Bit Size (BS)						Resistivity Stand off Standard Resolution (RSOZ) HDRS-H[1]				
125	mm	375					Array Induction Four Foot Resistivity A90 (AF90) AIT-M			
HCAL2							0.2 ohm.m 2000			
125	mm	375								
HCAL							Array Induction Four Foot Resistivity A30 (AF30) AIT-M			
125	mm	375					0.2 ohm.m 2000			
GR						500 mm	Array Induction Four Foot Resistivity A20 (AF20) AIT-M			
0	gAPI	300					0.2 ohm.m 2000			
						500 mm				
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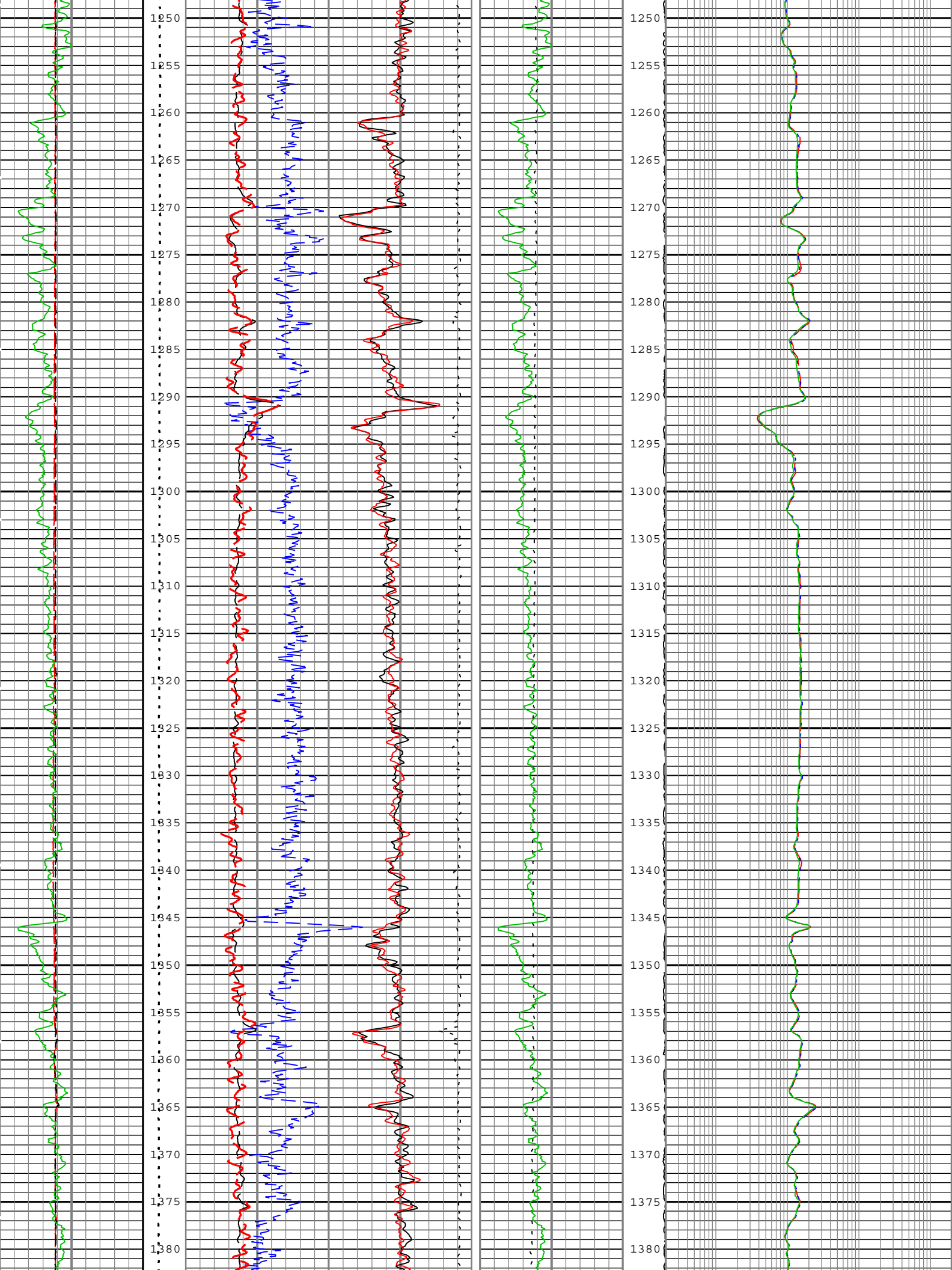


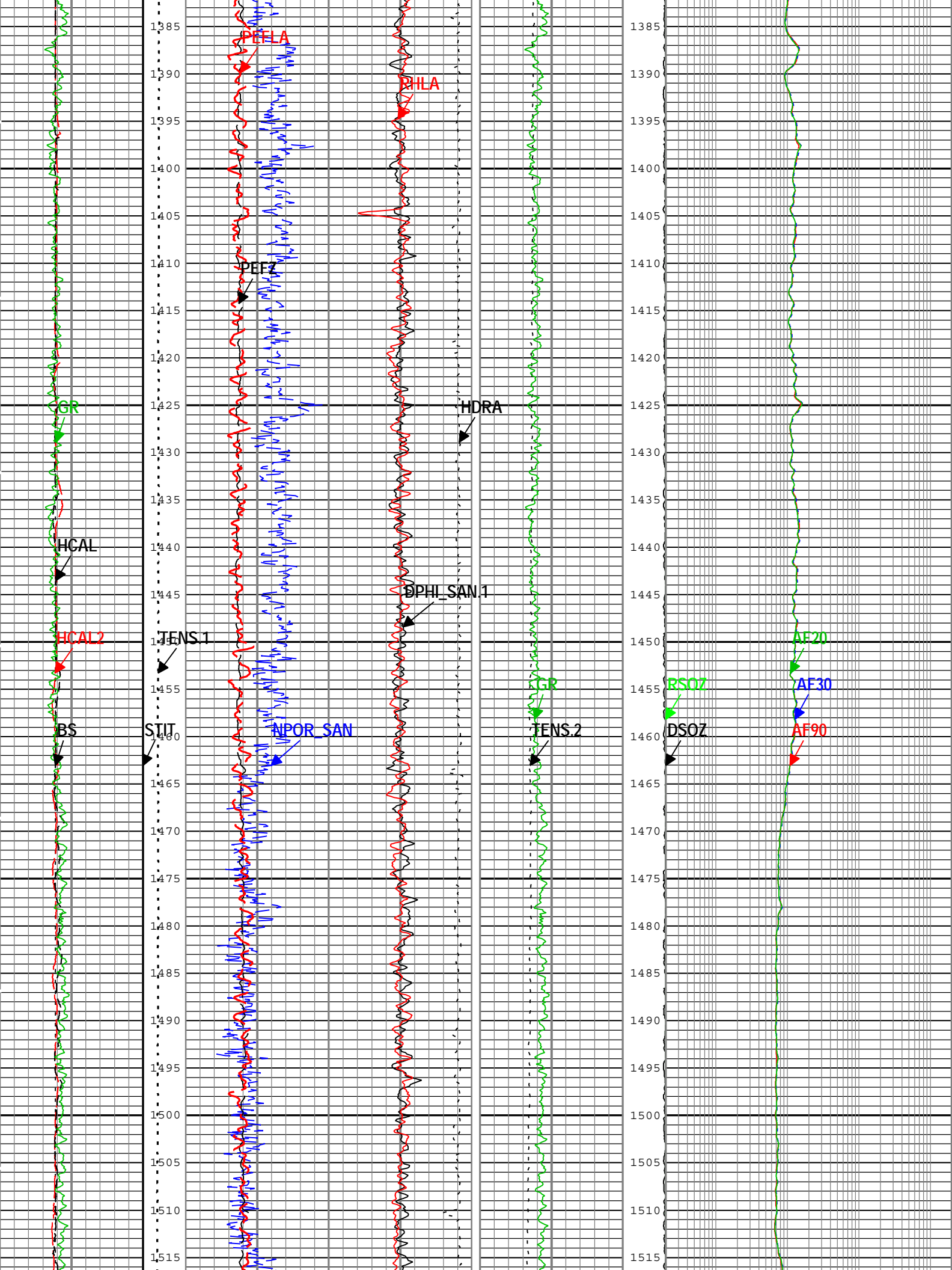


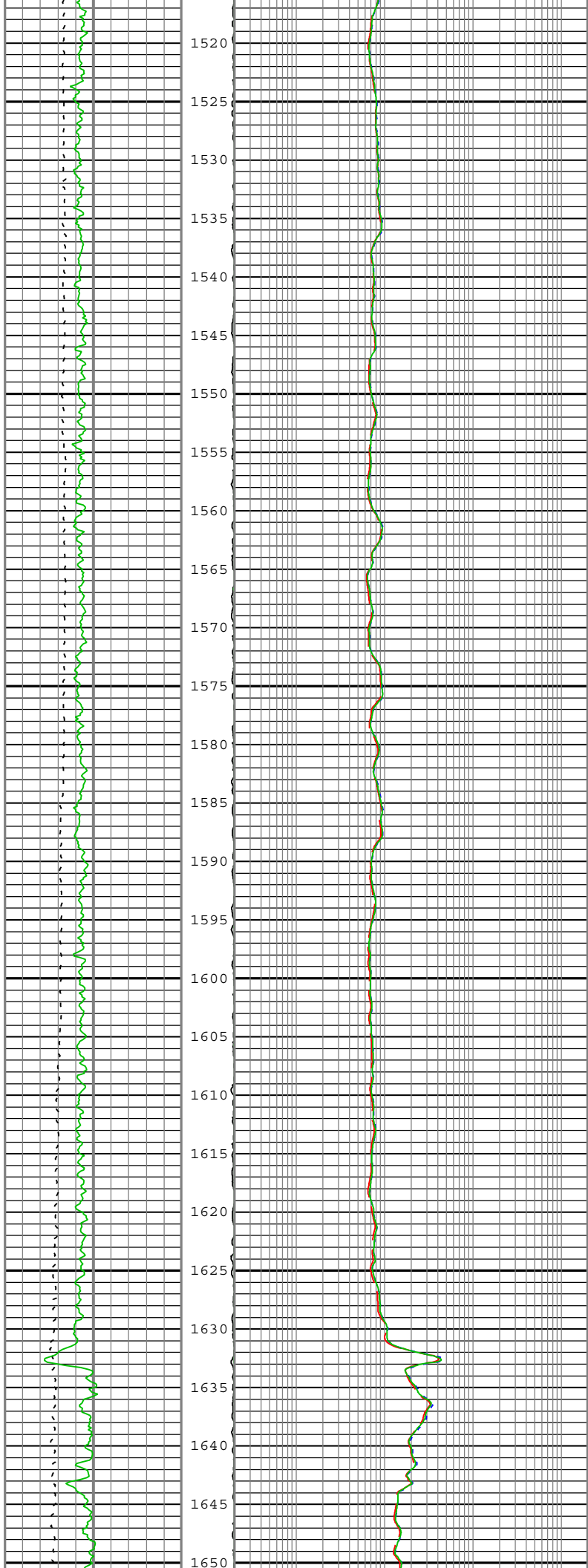
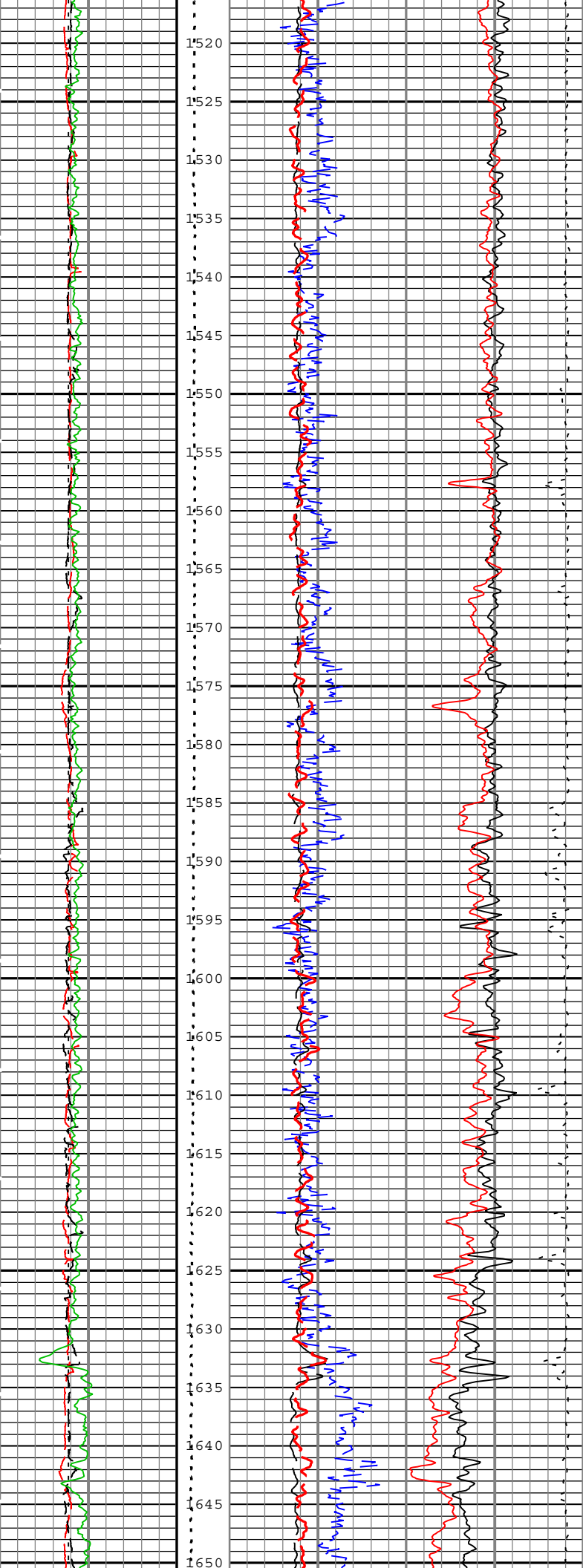


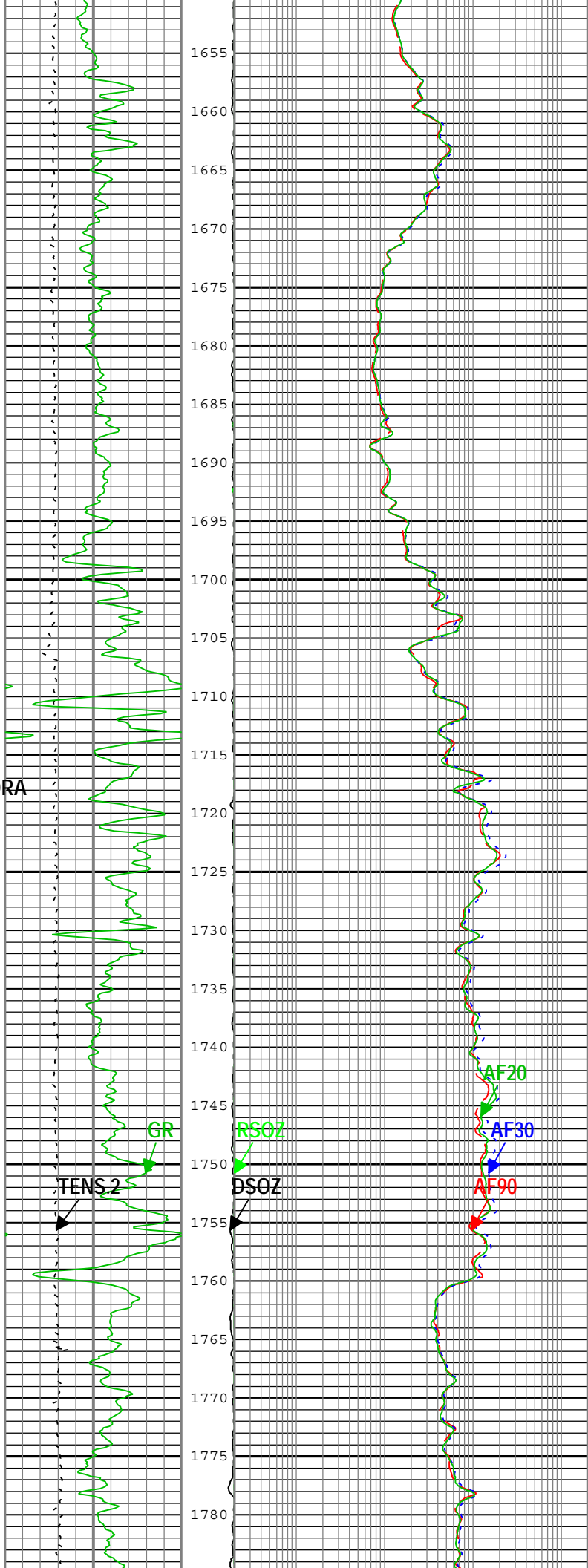
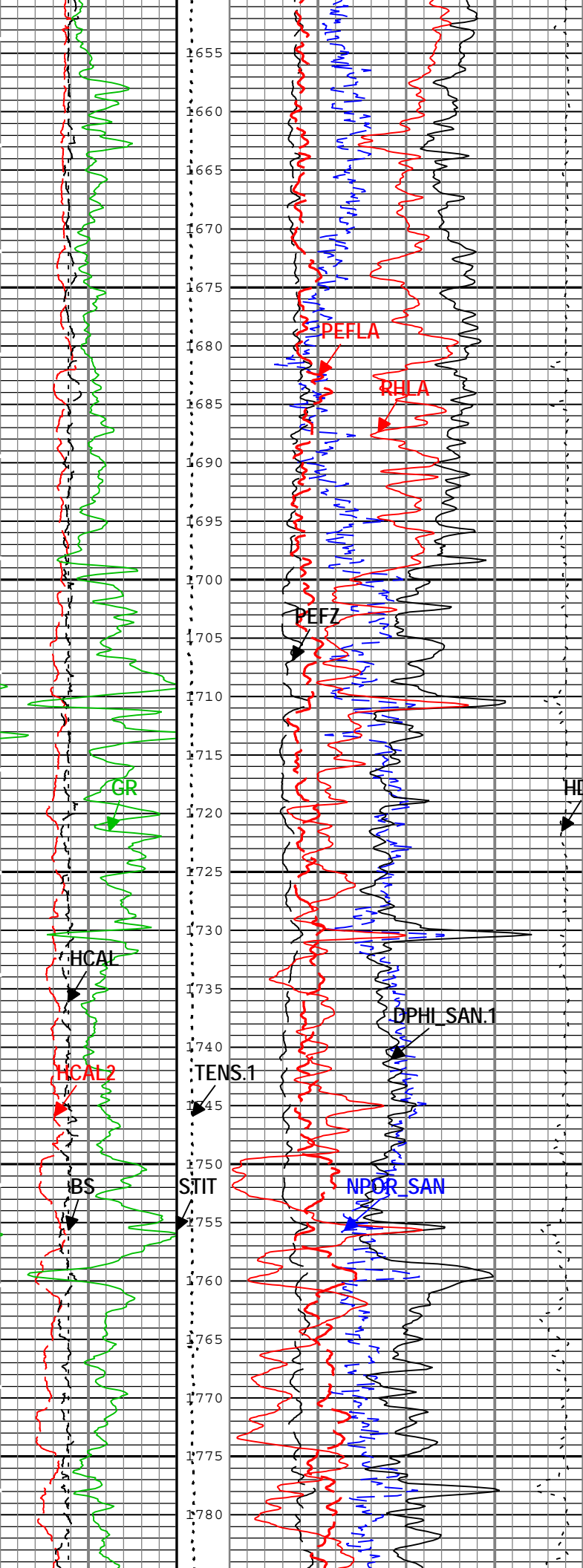


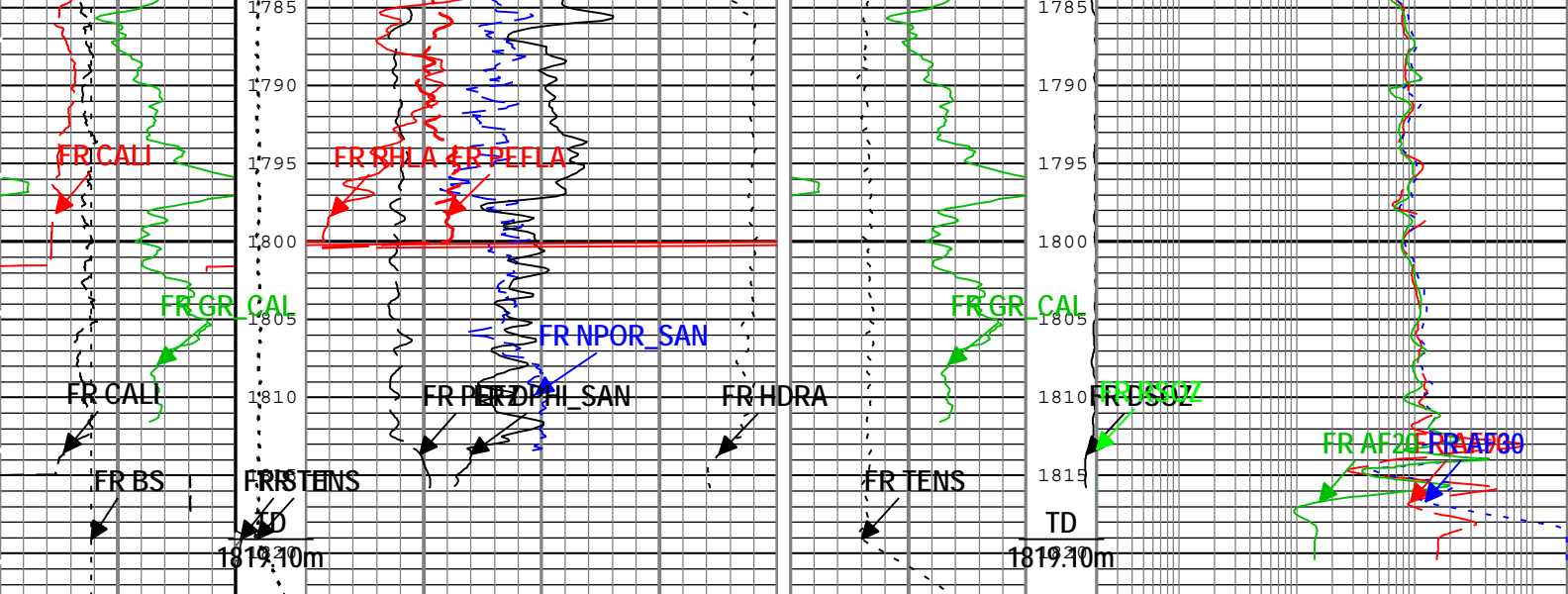












MAIN PASS - HALF SCALE LOG

Bit Size (BS) 125 mm 375	Cable Tension (TENS).1 25000 N	Enhanced Thermal Neutron Porosity (matrix Sandstone) (NPOR_SAN) HGNS-H 0.45 m3/m3 -0.15	Cable Tension (TENS).2 25000 N 0	Standard Resolution Density Stand off (DSO Z) HDR S-H[1] 50 0 mm	Array Induction Four Foot Resistivity A90 (AF90) AIT-M 0.2 ohm.m 2000
HCAL2 125 mm 375		DPHI_SAN2 0.45 m3/m3 -0.15	GR 0 gAPI 300		Array Induction Four Foot Resistivity A30 (AF30) AIT-M 0.2 ohm.m 2000
HCAL 125 mm 375		Density Porosity (matrix Sandstone) (DPHI_SAN).1 HDRS-H[1] 0.45 m3/m3 -0.15			Array Induction Four Foot Resistivity A20 (AF20) AIT-M 0.2 ohm.m 2000
GR 0 gAPI 300		Density Standoff Correction (HDRA) HDRS-H[1] 950 kg/m3 -50			
		Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H[1] 0 20			
		Long Spacing Apparent Density (RHLA) HDRS-H[2] 1900 kg/m3 2900			
		Formation Photoelectric Factor from Long Spacing Monosensor Inversion (PEFLA) HDRS-H[2] 0 20			
				Resistivity Stand off Standard Resolution (RSO Z) HDR S-H[1] 50 0 mm	

TIME_1900 - Time Marked every 60.00 (s)

Description: MCFL processing LQC for Platform Express Format: Log (HALFSCALE) Index Scale: 1:480 Index Unit: m Index Type: Measured Depth
Creation Date: 15-Jan-2014 01:19:06

Channel Processing Parameters				
Parameter	Description	Tool	Value	Unit
AAPL	Array Induction Answer Product Level(Depth Log/View only)	AIT-M	Radial	
ABHM	Array Induction Borehole Correction Mode	AIT-M	Compute Mud Resistivity	
ACDE	Array Induction Casing Detection Enable	AIT-M	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	AIT-M	Eccentered	
AMRF	Array Induction Mud Resistivity Factor	AIT-M	1	
ASTA	Array Induction Tool Standoff	AIT-M	40.64	mm

ATSE	Array Induction Temperature Selection(Sonde Error Correction)	AIT-M	Internal	
BARI	Barite Mud Presence Flag	Borehole	No	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Depth Zoned	
BHT	Bottom Hole Temperature	Borehole	71.5	degC
BS	Bit Size	WLSESSION	Depth Zoned	mm
BSAL	Borehole Salinity	Borehole	0	ppm
BSCO	Borehole Salinity Correction Option	HGNS-H	No	
CALI_SHIFT.1	CALI Supplementary Offset	HDRS-H	13.5	mm
CALI_SHIFT.2	CALI Supplementary Offset	HDRS-H	4.4	mm
CBLO	Casing Bottom (Logger)	WLSESSION	603	m
CCCO	Casing & Cement Thickness Correction Option	HGNS-H	Yes	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	1025	kg/m3
DFT	Drilling Fluid Type	Borehole	Oil	
DHC.1	Density Hole Correction	HDRS-H	Bit Size	
DHC.2	Density Hole Correction	HDRS-H	Bit Size	
FD	Fluid Density	Borehole	1000	kg/m3
FSAL	Formation Salinity	Borehole	0	ppm
FSCO	Formation Salinity Correction Option	HGNS-H	No	
GCLF.1	Coal-Like Formation	HDRS-H	No	
GCLF.2	Coal-Like Formation	HDRS-H	No	
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	Depth Zoned	
GR_MULTIPLIER	Gamma Ray Multiplier	HGNS-H	1	
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	SANDSTONE	
MCCO	Mud Cake Correction Option	HGNS-H	No	
MHCC	Switch to select MCFL High Contrast Correction	HDRS-H	No	
MPOF	MCFL Processing Operation Mode	HDRS-H	On	
MWCO	Mud Weight Correction Option	HGNS-H	No	
NAAC.1	Switch for the correction of formation activation by the APS	HDRS-H	Off	
NAAC.2	Switch for the correction of formation activation by the APS	HDRS-H	Off	
NPRM.1	HRDD Nuclear Processing Mode	HDRS-H	Mono Sensor Only	
NPRM.2	HRDD Nuclear Processing Mode	HDRS-H	High Resolution	
NTCO.1	HRDD Nuclear Temperature Correction Option	HDRS-H	On	
NTCO.2	HRDD Nuclear Temperature Correction Option	HDRS-H	On	
PTCO	Pressure Temperature Correction Option	HGNS-H	No	
SOCN	Standoff Distance	HGNS-H	3.175	mm
SOCO	Standoff Correction Option	HGNS-H	Yes	
TD	Total Measured Depth	Borehole	1819.1	m

Depth Zone Parameters			
Parameter	Value	Start (m)	Stop (m)
BHS	Cased	575	603
BHS	Open	603	1822.88
BS	311	575	603
BS	222	603	1819.1
GCSE UP PASS	BS	575	603

GCSE_UP_PASS	CALI	603	1822.88
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All depth are actual.

Tool Control Parameters				
Parameter	Description	Tool	Value	Unit
HMCA_BRD_TYPE	HMCA Board Type	HGNS-H	1	
HRGD_BRD_TYPE.1	HRGD Board Type	HDRS-H	WITH_HET	
HRGD_BRD_TYPE.2	HRGD Board Type	HDRS-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	548.64	m/h
NDTC.1	Nuclear Dead Time Correction	HDRS-H	On	
NDTC.2	Nuclear Dead Time Correction	HDRS-H	On	
NPUC.1	Nuclear Pile-Up Correction	HDRS-H	Off	
NPUC.2	Nuclear Pile-Up Correction	HDRS-H	Off	
STSO_HRDD.1	Temperature Source for the Density Algorithm	HDRS-H	HET data channel	
STSO_HRDD.2	Temperature Source for the Density Algorithm	HDRS-H	HET data channel	

Calibration Report	
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AIT-M (Array Induction Tool - M) Calibration - Run 1.1



Primary Equipment :			
File code for AIT-MA Sonde Tool Element	AMIS	129	
Auxiliary Equipment :			
AITM Rm/SP Bottom Nose	AMRM	129	

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM):		10:28:12 31-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.014	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	1.089	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.008	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.684	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.009	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	-0.018	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.004	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	0.042	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.989	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	0.028	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.980	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.052	3.000	
Test Loop Gain - 6		Master	1.000	0.950	0.987	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.343	3.000	
Test Loop Gain - 7		Master	1.000	0.950	1.007	1.050	
Test Loop Phase - 7	deg	Master	0	-3.000	0.019	3.000	




AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM):		10:28:12 31-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	-----	-231.000	-80.037	119.000	
Sonde Error Correction Quad - 0		Master	-----	-2250.000	-45.287	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	-----	114.000	162.947	204.000	
Sonde Error Correction Quad - 1		Master	-----	-625.000	140.227	625.000	
Sonde Error Correction Real - 2	mS/m	Master	-----	66.000	107.663	156.000	
Sonde Error Correction Quad - 2		Master	-----	-350.000	-65.097	350.000	
Sonde Error Correction Real - 3	mS/m	Master	-----	39.000	59.198	89.000	
Sonde Error Correction Quad - 3		Master	-----	-250.000	32.514	250.000	
Sonde Error Correction Real - 4	mS/m	Master	-----	15.000	25.111	35.000	
Sonde Error Correction Quad - 4		Master	-----	-63.000	12.558	63.000	
Sonde Error Correction Real - 5	mS/m	Master	-----	4.000	11.772	24.000	
Sonde Error Correction Quad - 5		Master	-----	-50.000	12.598	50.000	
Sonde Error Correction Real - 6	mS/m	Master	-----	5.000	9.450	15.000	
Sonde Error Correction Quad - 6		Master	-----	-30.000	-1.456	30.000	

Sonde Error Correction Real - 7	mS/m	Master	----	-5.000	-1.529	5.000	
Sonde Error Correction Quad - 7		Master	----	-30.000	-9.453	30.000	


























































AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM):	10:28:12 31-Dec-2013						
------------------	----------------------	--	--	--	--	--	--

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.854	1.200	
Fine Gain		Master	1.000	0.800	0.855	1.200	

AIT Electronics Check - Thru Calibration Check



Master (EEPROM):	10:28:12 31-Dec-2013	Before (Measured):	17:33:23 14-Jan-2014	After:			
------------------	----------------------	--------------------	----------------------	--------	--	--	--

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	----	0.366	0.621	0.854	
		Before	----	0.366	0.621	0.854	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 0	deg	Master	----	137.000	-174.832	-103.000	
		Before	----	137.000	-166.266	-103.000	
		After	----	----	----	----	
		Before-Master	----	----	8.566	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 1	V	Master	----	0.762	1.275	1.778	
		Before	----	0.762	1.275	1.778	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 1	deg	Master	----	136.000	-175.928	-104.000	
		Before	----	136.000	-167.360	-104.000	
		After	----	----	----	----	
		Before-Master	----	----	8.568	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 2	V	Master	----	0.372	0.632	0.868	
		Before	----	0.372	0.632	0.868	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 2	deg	Master	----	132.000	-179.506	-108.000	
		Before	----	132.000	-170.938	-108.000	
		After	----	----	----	----	
		Before-Master	----	----	8.568	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 3	V	Master	----	0.420	0.715	0.980	
		Before	----	0.420	0.715	0.980	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 3	deg	Master	----	131.000	179.717	-109.000	
		Before	----	131.000	-171.711	-109.000	
		After	----	----	----	----	
		Before-Master	----	----	-351.428	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 4	V	Master	----	0.804	1.338	1.876	
		Before	----	0.804	1.338	1.876	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 4	deg	Master	----	125.000	173.499	-115.000	
		Before	----	125.000	-177.921	-115.000	
		After	----	----	----	----	
		Before-Master	----	----	-351.420	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 5	V	Master	----	1.176	1.944	2.744	
		Before	----	1.176	1.943	2.744	
		After	----	----	----	----	
		Before-Master	----	----	-0.001	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 5	deg	Master	----	122.000	171.861	-118.000	
		Before	----	122.000	179.552	-118.000	

		Before	----	122.000	-179.932	-119.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-351.413	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 6	V	Master	----	1.176	1.941	2.744	<div><div></div></div>
		Before	----	1.176	1.940	2.744	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-0.001	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Phase - 6	deg	Master	----	121.000	171.902	-119.000	<div><div></div></div>
		Before	----	121.000	-179.513	-119.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-351.415	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Mag - 7	V	Master	----	0.846	1.395	1.974	<div><div></div></div>
		Before	----	0.846	1.395	1.974	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.000	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Thru Cal Phase - 7	deg	Master	----	115.000	171.159	-125.000	<div><div></div></div>
		Before	----	115.000	179.812	-125.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	8.653	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
SPA Zero	mV	Master		-50.000	-0.122	50.000	<div><div></div></div>
		Before		-50.000	-0.133	50.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-0.011	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
SPA Plus	mV	Master		941.000	990.432	1040.000	<div><div></div></div>
		Before		941.000	990.105	1040.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	-0.327	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Temperature Zero	V	Master		-0.050	0.000	0.050	<div><div></div></div>
		Before		-0.050	0.000	0.050	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.000	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>
Temperature Plus	V	Master		0.870	0.917	0.960	<div><div></div></div>
		Before		0.870	0.917	0.960	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master	----	----	0.000	----	<div><div></div></div>
		After-Before	----	----	----	----	<div><div></div></div>






HDRS-H[1] (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1.1		
Primary Equipment :		
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	880
HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	4796
Auxiliary Equipment :		
HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28679
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5285
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	880
HRMS, 125 degC, 10 kpsi	HRMS-B	894
Calibration Parameter :		
Small Ring Size (Caliper Calibration Small Ring)	203.2	
Large Ring Size (Caliper Calibration Large Ring)	304.8	

HDRS Caliper Calibration - Caliper Accumulations							
Before (Measured):		06:27:32 14-Jan-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div></div>

Small Ring	mm	Before	203.2	152.4	199.0	254.0	
Large Ring	mm	Before	304.8	228.6	292.0	381.0	








HDRS Density Calibration - Inversion Results

Master (EEPROM): 12:27:24 24-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	kg/m3	Master	2596	2586	2600	2606	
Rho Magnesium	kg/m3	Master	1686	1676	1690	1696	
Pe Aluminum		Master	2.570	2.470	2.579	2.670	
Pe Magnesium		Master	2.650	2.550	2.603	2.750	




















HDRS Density Calibration - Deviation Summary

Master (EEPROM): 12:27:24 24-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.2068	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.6397	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.3839	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.5922	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.8683	1.5000	
LS Max Deviation	%	Master	0	-3.5000	2.7525	3.5000	











HDRS Density Calibration - Background Summary

Master (EEPROM): 12:27:24 24-Dec-2013 Before (Measured): 06:28:18 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7364		
		Before	0.7364	0.6996	0.7419	0.7732	
		Before-Master	-----	-----	0.0055	-----	
BS Window Sum	1/s	Master	1		26467		
		Before	26467	25143	26655	27790	
		Before-Master	-----	-----	188	-----	
SS Window Ratio		Master	1.0000		0.4815		
		Before	0.4815	0.4574	0.4769	0.5056	
		Before-Master	-----	-----	-0.0046	-----	
SS Window Sum	1/s	Master	1		11894		
		Before	11894	11300	11857	12489	
		Before-Master	-----	-----	-37	-----	
LS Window Ratio		Master	1.0000		0.2994		
		Before	0.2994	0.2844	0.2975	0.3144	
		Before-Master	-----	-----	-0.0019	-----	
LS Window Sum	1/s	Master	1		1353		
		Before	1353	1285	1341	1421	
		Before-Master	-----	-----	-12	-----	











HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 12:27:24 24-Dec-2013 Before (Measured): 06:28:18 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1339	2400	
		Before		1000	1329	2400	
		Before-Master	-----	-100	-10	100	
SS PM High Voltage	V	Master		1000	1361	2400	
		Before		1000	1398	2400	
		Before-Master	-----	-100	37	100	
LS PM High Voltage	V	Master		1000	1321	2400	
		Before		1000	1343	2400	
		Before-Master	-----	-100	22	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 12:27:24 24-Dec-2013 Before (Measured): 06:28:18 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.60	25.00	
		Before		5.00	10.44	25.00	
		Before-Master	-----	-1.00	-0.16	1.00	
SS Crystal Resolution	%	Master		5.00	9.82	20.00	
		Before		5.00	10.29	20.00	
		Before-Master	-----	-1.00	0.47	1.00	
LS Crystal Resolution	%	Master		5.00	8.22	20.00	
		Before		5.00	8.07	20.00	
		Before-Master	-----	-1.00	-0.15	1.00	

Before (Measured):		06:24:53 14-Jan-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3839	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3808	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3810	4136	

Primary Equipment :			
HILT Gamma-Ray and Neutron Sonde, 150 degC		HGNS-H	4792
Auxiliary Equipment :			
HGNS Accelerometer, 150 degC		HACCZ-H	5469
AmBe Neutron Logging Source		NSR-F	2516
Calibration Parameter :			
Water Temperature			
Housing Size			
JIG-BKG (Jig minus background reference)		165	

Before (Measured):		17:31:34 14-Jan-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	m/s2	Before	9.81	9.61	9.81	10.01	

Master (EEPROM):		00:00:00 15-Sep-2006					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			QAT_160		
Accelerometer Reference Temperature	degC	Master		-1.0	25.0	50.0	
Accelerometer Coefficients - 0		Master	----	----	7241.000	----	
Accelerometer Coefficients - 1		Master	----	----	5.473	----	
Accelerometer Coefficients - 2		Master	----	----	-0.012	----	
Accelerometer Coefficients - 3		Master	----	----	0.000	----	
Accelerometer Coefficients - 4		Master	----	----	2.735	----	
Accelerometer Coefficients - 5		Master	----	----	0.000	----	
Accelerometer Coefficients - 6		Master	----	----	0.000	----	
Accelerometer Coefficients - 7		Master	----	----	0.000	----	
Accelerometer Coefficients - 8		Master	----	----	300.400	----	
Accelerometer Coefficients - 9		Master	----	----	0.984	----	

Master (EEPROM):		09:05:16 31-Dec-2013		Before (Measured):		06:25:14 14-Jan-2014		After:	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit			
Near Zero Measurement	1/s	Master	0	5.0	27.0	40.0			
		Before	0	5.0	27.3	40.0			
		After	----	----	----	----			
		Before-Master	----	-4.1	0.3	4.1			
		After-Before	----	----	----	----			
Far Zero Measurement	1/s	Master	0	5.0	26.1	40.0			
		Before	0	5.0	28.5	40.0			
		After	----	----	----	----			
		Before-Master	----	-3.9	2.4	3.9			
		After-Before	----	----	----	----			
Near Plus Measurement	1/s	Master	6031.0	4700.0	5851.0	6900.0			
		Before	----	----	----	----			
		After	----	----	----	----			
		Before-Master	----	----	----	----			
		After-Before	----	----	----	----			
Far Plus Measurement	1/s	Master	2793.0	1900.0	2454.0	2900.0			
		Before	----	----	----	----			
		After	----	----	----	----			
		Before-Master	----	----	----	----			
		After-Before	----	----	----	----			

Near Corrected Plus Measurement	1/s	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	4700.0 ----- ----- ----- -----	5865.0 ----- ----- ----- -----	6900.0 ----- ----- ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Far Corrected Plus Measurement	1/s	Master Before After Before-Master After-Before	----- ----- ----- ----- -----	1900.0 ----- ----- ----- -----	2454.0 ----- ----- ----- -----	2900.0 ----- ----- ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		06:27:38 14-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
RGR Zero Measurement	gAPI	Before After After-Before	30.0 ----- -----	0 ----- -----	33.9 ----- -----	120.0 ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
RGR Plus Measurement	gAPI	Before After After-Before	185.4 ----- -----	157.1 ----- -----	159.9 NOT DONE	206.3 ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
GR Calibration Gain		Before After After-Before	0.89 ----- -----	0.80 ----- -----	1.03 ----- -----	1.05 ----- -----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>

DSLT-H (Digitizing Sonic Logging Tool - H) Calibration - Run 1.1

Primary Equipment :			
Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL		SLS-E	2047

CBL Normalization - CBL Accumulations

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Upper Far Amplitude - 0		Master	-----	-----	-----	-----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Upper Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Lower Far Amplitude - 0		Master	-----	-----	-----	-----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Lower Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>

CBL Normalization - CBL/VDL Coefficients

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
CBL Correction Factor for UT		Master	3.500	2.700	NOT DONE	4.300	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
CBL Correction Factor for LT		Master	2.500	1.700	NOT DONE	4.300	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
VDL Ratio between UT and LT for CBLB Mode		Master	1.000		NOT DONE		<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>

CBL Free Pipe Adjustment - Free Pipe Measurement

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
CBL Amplitude - 0	mV	Before	-----	-----	-----	-----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
CBL Reference Amplitude (CBRA) - 0	mV	Before	-----	-----	-----	-----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Measurement Depth - 0	m	Before	-----	-----	-----	-----	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>

CBL Free Pipe Adjustment - CBL Amplitude Coefficient

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
CBL Adjustment Factor		Before	1.000	0.200	NOT DONE	5.000	<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>
Depth of Before Calibration	ft	Before			NOT DONE		<div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div>

HDRS-H[2] (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1.1

Primary Equipment :			
HILT High-Resolution Control Cartridge, 150 degC		HRCC-H	
HILT Resistivity Gamma-Ray Density Device, 150 degC		HRGD-H	3914
Auxiliary Equipment :			
HRDD Backscatter Detector		Backscatter	
HRDD Long Spacing Detector		Long Spacing	28710
HRDD Short Spacing Detector		Short Spacing	27760

Cesium 137 Gamma-Ray Logging Source	GSR-J	5310
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	3875

Calibration Parameter :

Small Ring Size (Caliper Calibration Small Ring)	203.2
Large Ring Size (Caliper Calibration Large Ring)	304.8

HDRS Caliper Calibration - Caliper Accumulations

Before (Measured):		06:29:21 14-Jan-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	mm	Before	203.2	152.4	204.6	254.0	
Large Ring	mm	Before	304.8	228.6	313.3	381.0	

HDRS Density Calibration - Inversion Results

Master (EEPROM):		10:28:40 24-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	kg/m3	Master	2596	2586	2598	2606	
Rho Magnesium	kg/m3	Master	1686	1676	1690	1696	
Pe Aluminum		Master	2.570	2.470	2.568	2.670	
Pe Magnesium		Master	2.650	2.550	2.615	2.750	

HDRS Density Calibration - Deviation Summary

Master (EEPROM):		10:28:40 24-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.2310	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.8128	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.6214	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.9703	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.3753	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.3653	3.5000	

HDRS Density Calibration - Background Summary

Master (EEPROM):		10:28:40 24-Dec-2013		Before (Measured): 14:51:08 09-Jan-2014 Expired by 4 days			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7406		
		Before	0.7406	0.7036	0.7452	0.7776	
		Before-Master	-----	-----	0.0046	-----	
BS Window Sum	1/s	Master	1		23979		
		Before	23979	22780	24136	25178	
		Before-Master	-----	-----	157	-----	
SS Window Ratio		Master	1.0000		0.4809		
		Before	0.4809	0.4569	0.4768	0.5050	
		Before-Master	-----	-----	-0.0041	-----	
SS Window Sum	1/s	Master	1		10589		
		Before	10589	10060	10583	11119	
		Before-Master	-----	-----	-6	-----	
LS Window Ratio		Master	1.0000		0.3042		
		Before	0.3042	0.2890	0.2988	0.3194	
		Before-Master	-----	-----	-0.0054	-----	
LS Window Sum	1/s	Master	1		1192		
		Before	1192	1132	1180	1251	
		Before-Master	-----	-----	-12	-----	

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM):		10:28:40 24-Dec-2013		Before (Measured): 14:51:08 09-Jan-2014 Expired by 4 days			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1448	2400	
		Before		1000	1447	2400	
		Before-Master	-----	-100	-1	100	
SS PM High Voltage	V	Master		1000	1477	2400	
		Before		1000	1506	2400	
		Before-Master	-----	-100	29	100	
LS PM High Voltage	V	Master		1000	1289	2400	
		Before		1000	1286	2400	
		Before-Master	-----	-100	-3	100	

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM):		10:28:40 24-Dec-2013		Before (Measured):		14:51:08 09-Jan-2014		Expired by 4 days	
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit			
BS Crystal Resolution	%	Master		5.00	10.46	25.00			
		Before		5.00	10.41	25.00			
		Before-Master	----	-1.00	-0.05	1.00			
SS Crystal Resolution	%	Master		5.00	10.04	20.00			
		Before		5.00	10.64	20.00			
		Before-Master	----	-1.00	0.60	1.00			
LS Crystal Resolution	%	Master		5.00	8.04	20.00			
		Before		5.00	8.03	20.00			
		Before-Master	----	-1.00	-0.01	1.00			

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured):		06:25:34 14-Jan-2014						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Main Resistivity	ohm.m	Before	3875	3565	3906	4185		
Deep Resistivity	ohm.m	Before	3830	3524	3827	4136		
Shallow Resistivity	ohm.m	Before	3830	3524	3837	4136		

SGT-N (Scintillation Gamma-Ray Tool) Calibration - Run 1.1

Primary Equipment :		Scintillation Gamma Cartridge		SGC-TB		10447	
Calibration Parameter :		Plus Reference (Jig minus background reference)		165			

SGT-N Gamma-Ray Calibration - Gamma Ray Coefficients

Before (Measured):									06:28:02 14-Jan-2014		After:			
Measurement			Unit	Phase	Nominal	Low Limit	Actual	High Limit						
Gamma Ray Gain				Before			1.169							
				After	----	----	----	----						
				After-Before	----	----	----	----						

SGT-N Gamma-Ray Calibration - Gamma Ray Accumulations

Before (Measured):		06:28:02 14-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div></div>
RGR Zero Measurement	gAPI	Before		0	44.958	120.000	<div><div></div><div></div><div></div></div>
		After	----	----	----	----	<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>
RGR Plus Measurement	gAPI	Before	141.161	128.328	141.161	153.994	<div><div></div><div></div><div></div></div>
		After			NOT DONE		<div><div></div><div></div><div></div></div>
		After-Before	----	----	----	----	<div><div></div><div></div><div></div></div>

SGT-N Gamma-Ray Plateau Check - Gamma Ray Plateau Check

Before (Measured):		14:58:24 09-Jan-2014		After:				
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
RGR Plus Plateau Measurement	gAPI	Before			173.529			
		After	----	----	----	----		
		After-Before	----	----	----	----		
RGR Minus Plateau Measurement	gAPI	Before			170.096			
		After	----	----	----	----		
		After-Before	----	----	----	----		

LEH-QT (Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor) Calibration - Run 1.1

Primary Equipment :		Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor		LEH-QT		2850	
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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	-4448.222	NOT DONE	4448.222	

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:

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