

Company: CONOCOPHILLIPS CANADA RESOURCES CORP.

Well: COPRC DODO CANYON E76

Field: DODO CANYON

Province: NORTHWEST TERRITORIES

PLATFORM EXPRESS ***TVD***

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:		UNIT E SECTION 76	Elev.: K.B. 273.40 m
		300E766510126450	G.L. 268.20 m
		NORTHING: 7219874.66	D.F. 273.10 m
Permanent Datum:		EASTING: 594010.01	
Log Measured From:		Ground Level	Elev.: 268.20
Drilling Measured From:		Kelly Bushing	5.20 m above Perm.Datum
API Serial No.		Kelly Bushing	
EL470		Longitude: 126° 59' 58" W	Latitude: 65° 5' 27" N

Logging Date	14-Jan-2014	***TVD***
Run Number	1.1	
Depth Driller	1908.00 m	1776.25 m
Schlumberger Depth	1819.10 m	1761.52 m
Bottom Log Interval	1816.69 m	1759.11 m
Top Log Interval	603.00 m	603 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	1025 kg/m3	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	14-Jan-2014	07:20:00
Logger on Bottom	14-Jan-2014	18:25:00
Unit Number	3139	GRANDE PRAIRIE
Recorded By	JEFFREY TATLOCK	
Witnessed By	DAVID LAWRENCE	

Disclaimer

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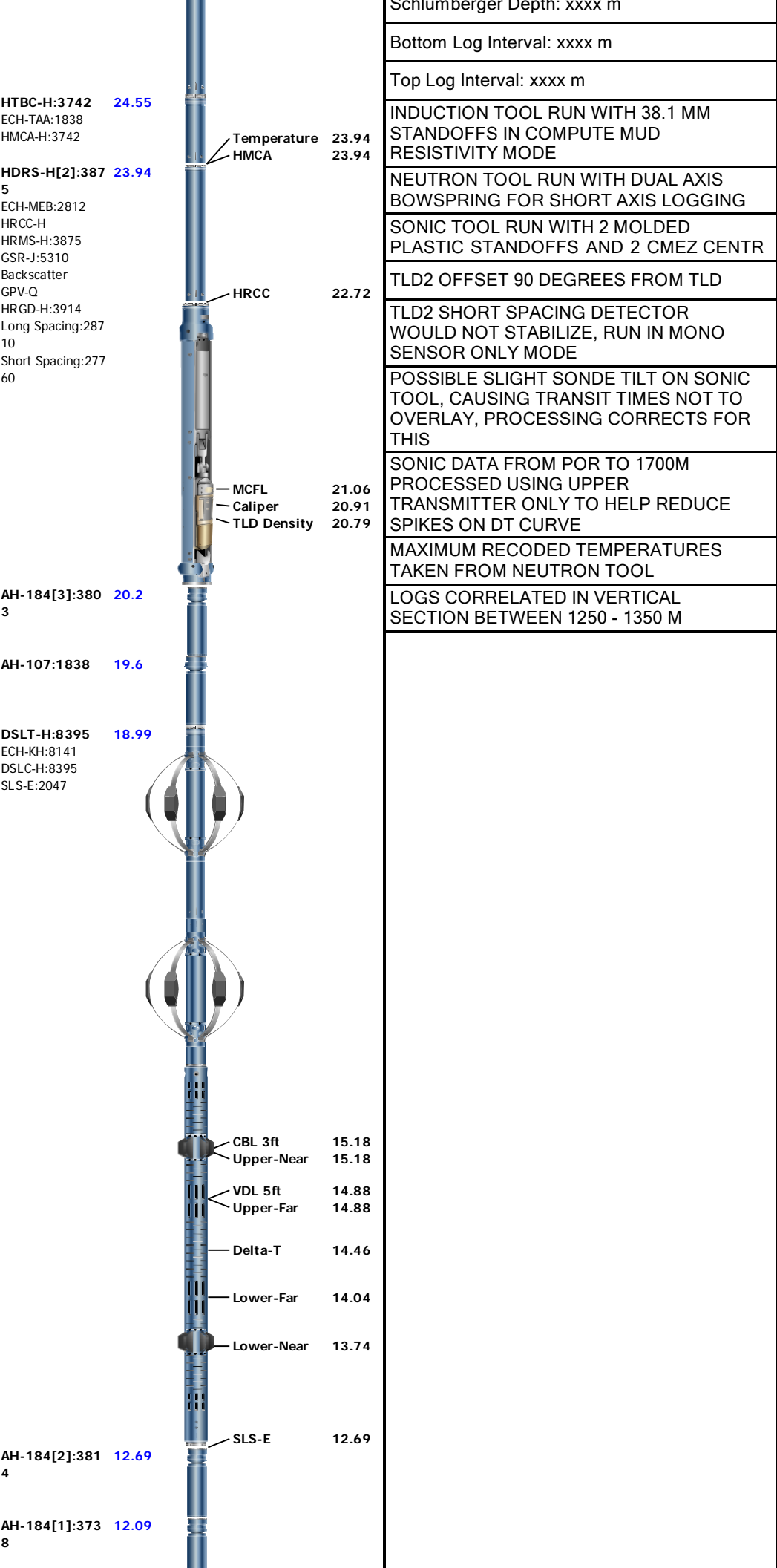
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Borehole Fluids	
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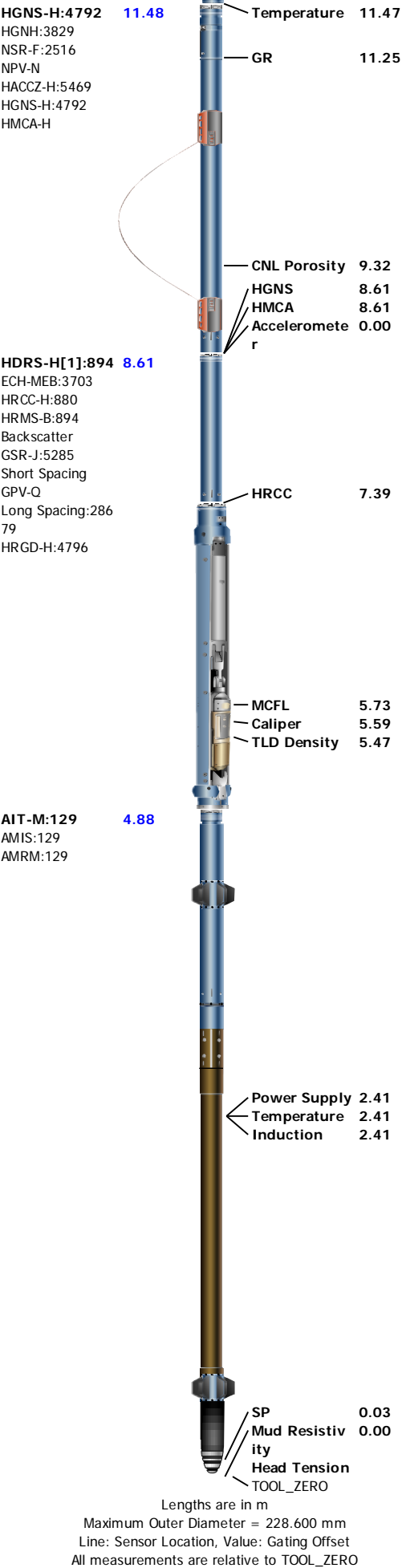
Parameter(unit)	1.1					
Fluid Type	Oil					
Fluid Name	INVERT					
Max Recorded Temperatures (degC)	71.5					
Source of Sample	N/A					
Salinity (ppm)	0					
Density (kg/m3)	1025					
Funnel Viscosity (s)	75					
Fluid Loss (cm3)						
PH						
Date/Time Circulation Stopped	14-Jan-2014 07:20:00					
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	
Equip name LEH-QT:2850 LEH-QT:2850	Length 28.03	MP name	Offset	ALL INTERVALS AND PRESENTATIONS AS PER CLIENT REQUEST	
				RIG: BEAVER 2	
				SLB CREW: JASON LEGASSIE	
DTC-H:9100 ECH-KC:10172 DTC-H:9100	27.14	CTEM HV	26.86 0.00	LOGGER REQUESTED AT: 10:30 14-JAN-2014	
				LOGGER ARRIVED AT: 09:30 14-JAN-2014	
		ToolStatus TelStatus	26.22 26.22	RIG READY AT: 15:45 14-JAN-2014	
SGT-N:10447 SGH-K:3210 SGC-TB:10447 SGD-TAA	26.22	GR	25.94	***TVD***	
				Depth Driller: xxxx m	
				Culm Depth	



Schlumberger Depth: xxxx m
Bottom Log Interval: xxxx m
Top Log Interval: xxxx m
INDUCTION TOOL RUN WITH 38.1 MM STANDOFFS IN COMPUTE MUD RESISTIVITY MODE
NEUTRON TOOL RUN WITH DUAL AXIS BOWSPRING FOR SHORT AXIS LOGGING
SONIC TOOL RUN WITH 2 MOLDED PLASTIC STANDOFFS AND 2 CMEZ CENTR
TLD2 OFFSET 90 DEGREES FROM TLD
TLD2 SHORT SPACING DETECTOR WOULD NOT STABILIZE, RUN IN MONO SENSOR ONLY MODE
POSSIBLE SLIGHT SONDE TILT ON SONIC TOOL, CAUSING TRANSIT TIMES NOT TO OVERLAY, PROCESSING CORRECTS FOR THIS
SONIC DATA FROM POR TO 1700M PROCESSED USING UPPER TRANSMITTER ONLY TO HELP REDUCE SPIKES ON DT CURVE
MAXIMUM RECODED TEMPERATURES TAKEN FROM NEUTRON TOOL
LOGS CORRELATED IN VERTICAL SECTION BETWEEN 1250 - 1350 M



Depth Summary

1.1

Depth Measuring Device

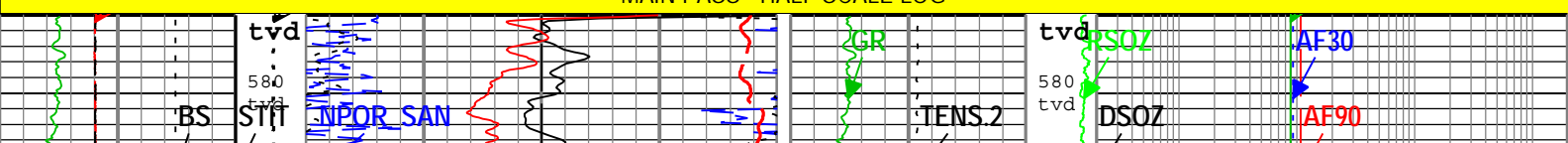
Depth Measuring Device									
Type	IDW-JA								
Serial Number	6162								
Calibration Date	10-MAY-2010								
Calibrator Serial Number	4								
Calibration Cable Type	7-39 PLXS								
Wheel Correction 1	-3								
Wheel Correction 2	1								
Tension Device									
Type	CMTD-B/A								
Serial 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		

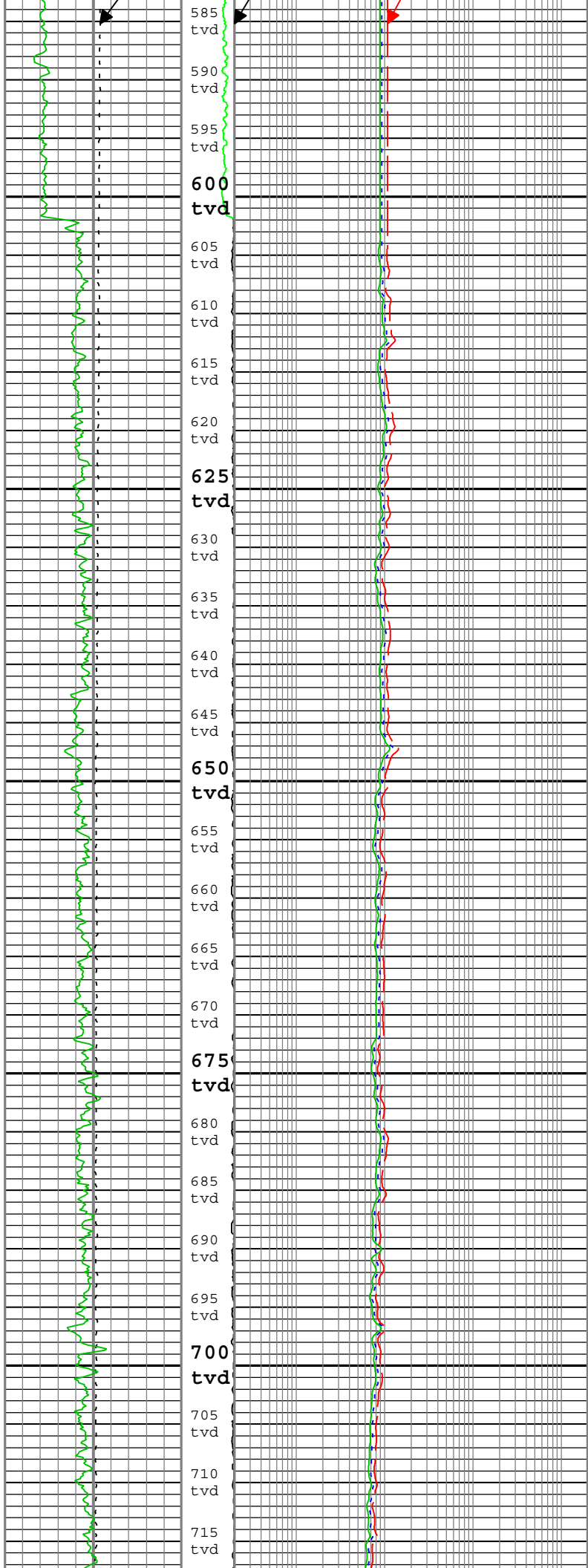
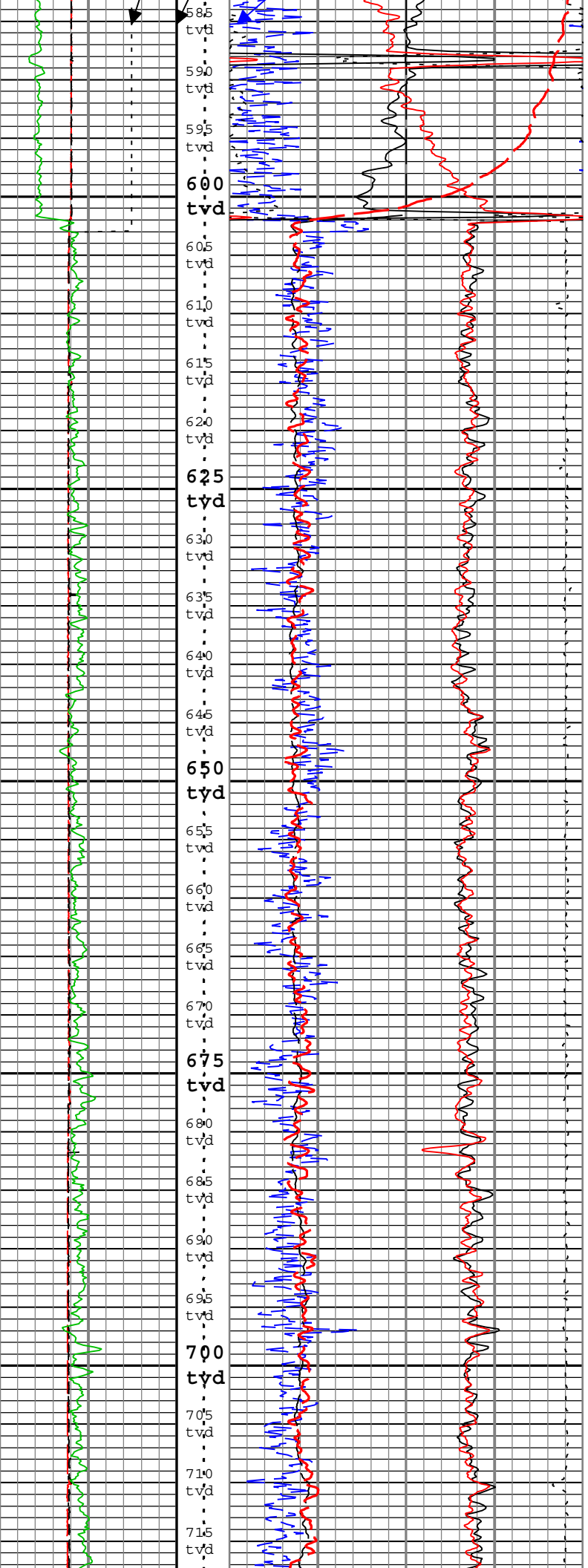
Description: MCFL processing LQC for Platform Express Format: Log (HALFSCALE) Index Scale: 1:480 Index Unit: m Index Type: TVD Creation
Date: 15-Jan-2014 01:22:24

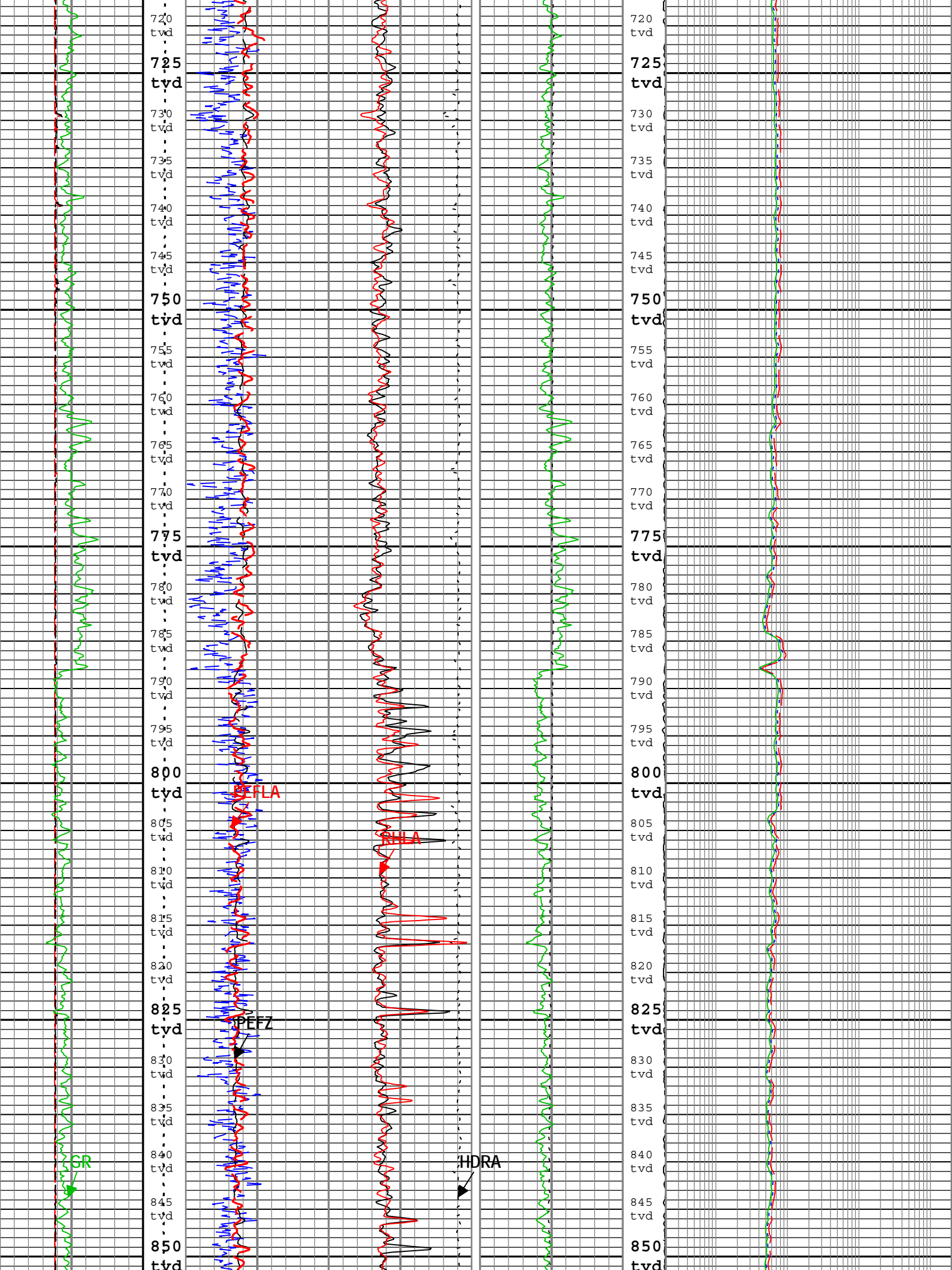
Channel	Source	Sampling
AF20	AIT-M:AMIS:AMIS	3in
AF30	AIT-M:AMIS:AMIS	3in
AF90	AIT-M:AMIS:AMIS	3in
BS	Borehole	6in
CALI.1	HDRS-H[1]:HRCC-H:HRCC-H	1in
CALI.2	HDRS-H[2]:HRCC-H:HRCC-H	1in
DPHI_SAN.1	HDRS-H[1]:HRMS-H:HRGD-H	6in
DPHI_SAN.2	HDRS-H[2]:HRMS-H:HRGD-H	6in
DSOZ	HDRS-H[1]:HRMS-H:HRGD-H	2in
GR_CAL	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

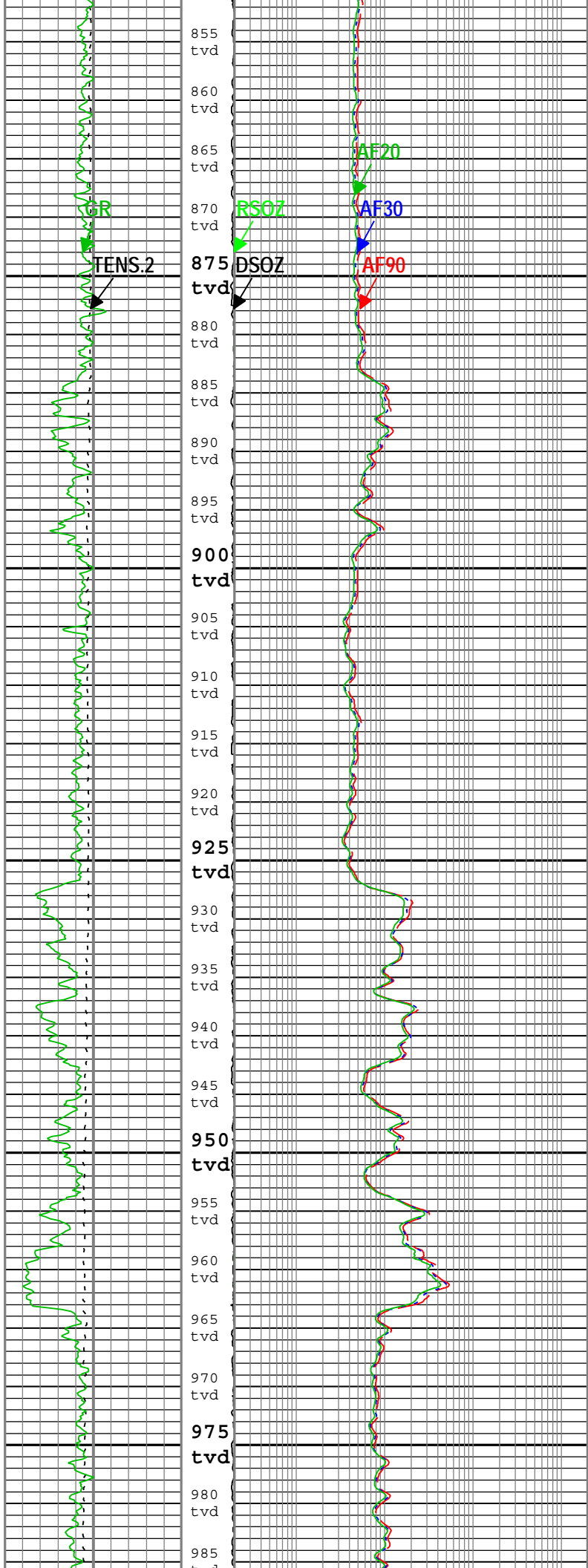
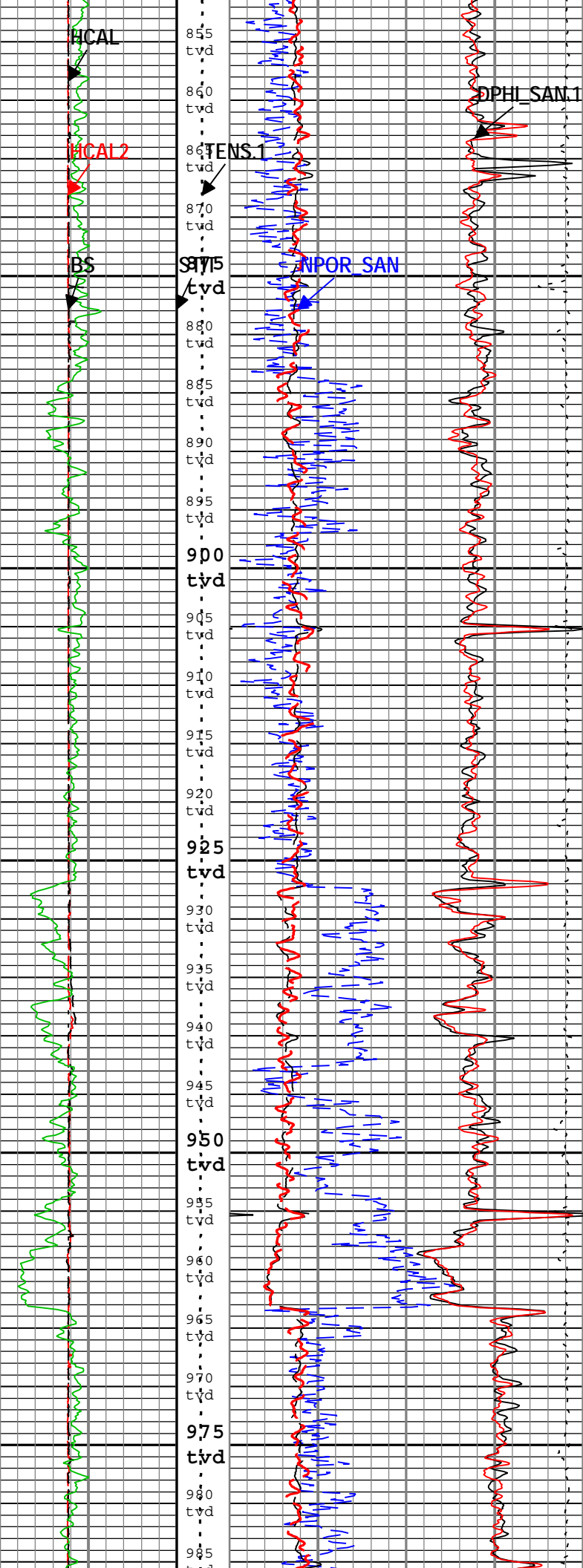
			Enhanced Thermal Neutron Porosity (matrix Sandstone) (NPOR_SAN) HGNS-H			Standard Resolution Density Stand off (DSOZ) HDRS-H[1]			
			0.45	m3/m3	-0.15				
			DPHI_SAN2						
			0.45	m3/m3	-0.15				
			Density Porosity (matrix Sandstone) (DPHI_SAN).1 HDRS-H[1]						
			0.45	m3/m3	-0.15				
			Density Standoff Correction (HDRA) HDRS-H[1]			500 mm			
			950	kg/m3	-50	Resistivity Stand off Standard Resolution (RSOZ) HDRS-H[1]	Array Induction Four Foot Resistivity A90 (AF90) AIT-M		
			Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H[1]				0.2	ohm.m	2000
			0		20		Array Induction Four Foot Resistivity A30 (AF30) AIT-M		
			Long Spacing Apparent Density (RHLA) HDRS-H[2]				0.2	ohm.m	2000
			1900	kg/m3	2900		Array Induction Four Foot Resistivity A20 (AF20) AIT-M		
			Formation Photoelectric Factor from Long Spacing Monosensor Inversion (PEFLA) HDRS-H[2]				0.2	ohm.m	2000
			0		20				
Bit Size (BS)									
125	mm	375							
HCAL2									
125	mm	375							
HCAL									
125	mm	375							
GR									
0	gAPI	300							
Cable Tension (TENS).1									
25000	N	0							
Cable Tension (TENS).2									
25000	N	0							
GR									
0	gAPI	300							

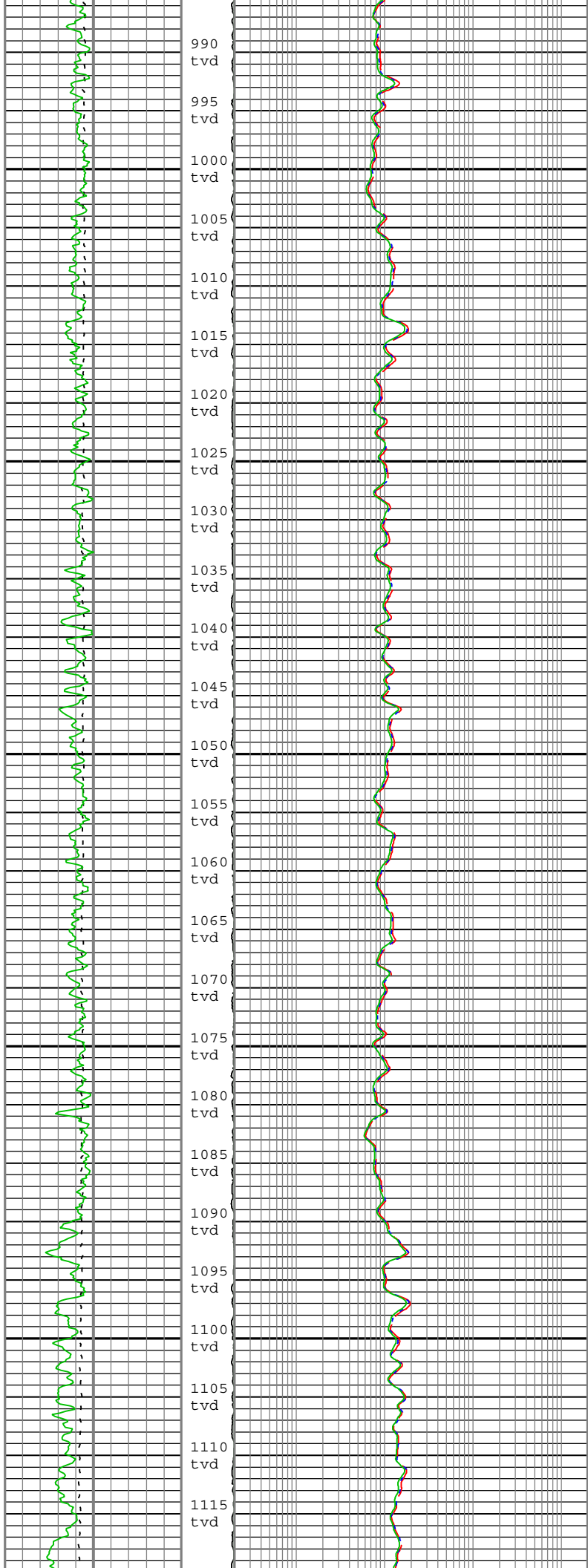
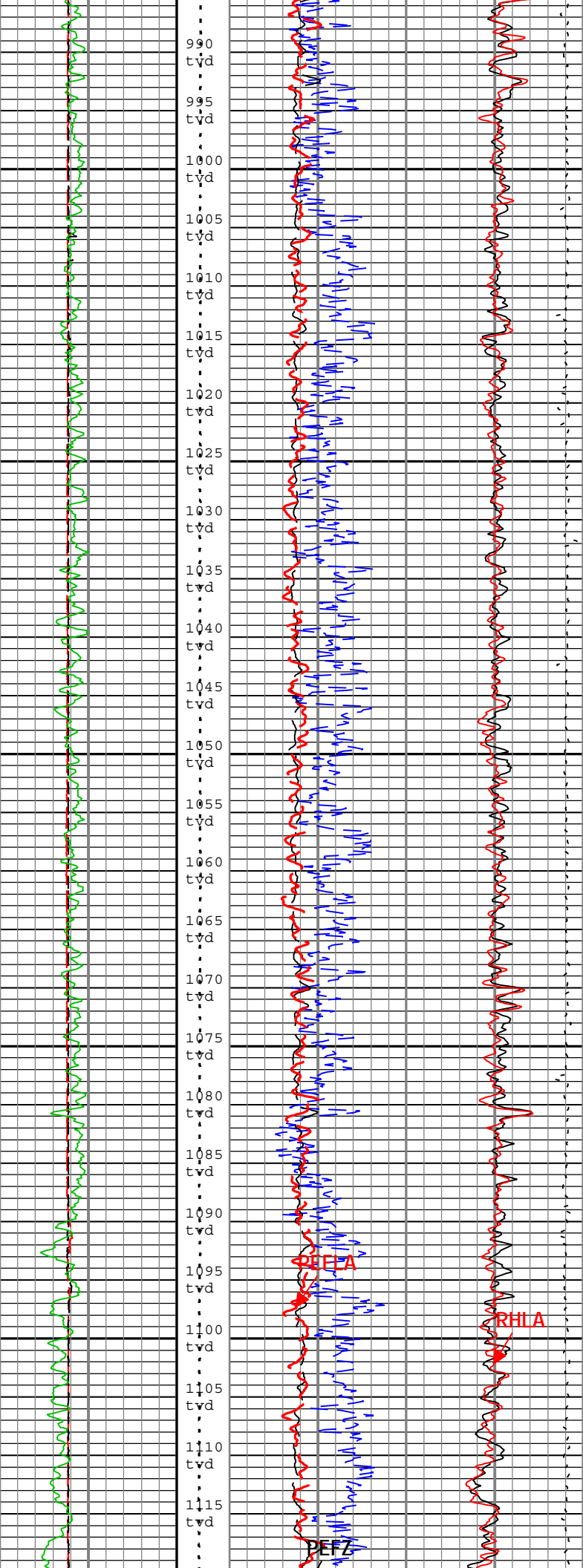
MAIN PASS - HALF SCALE LOG

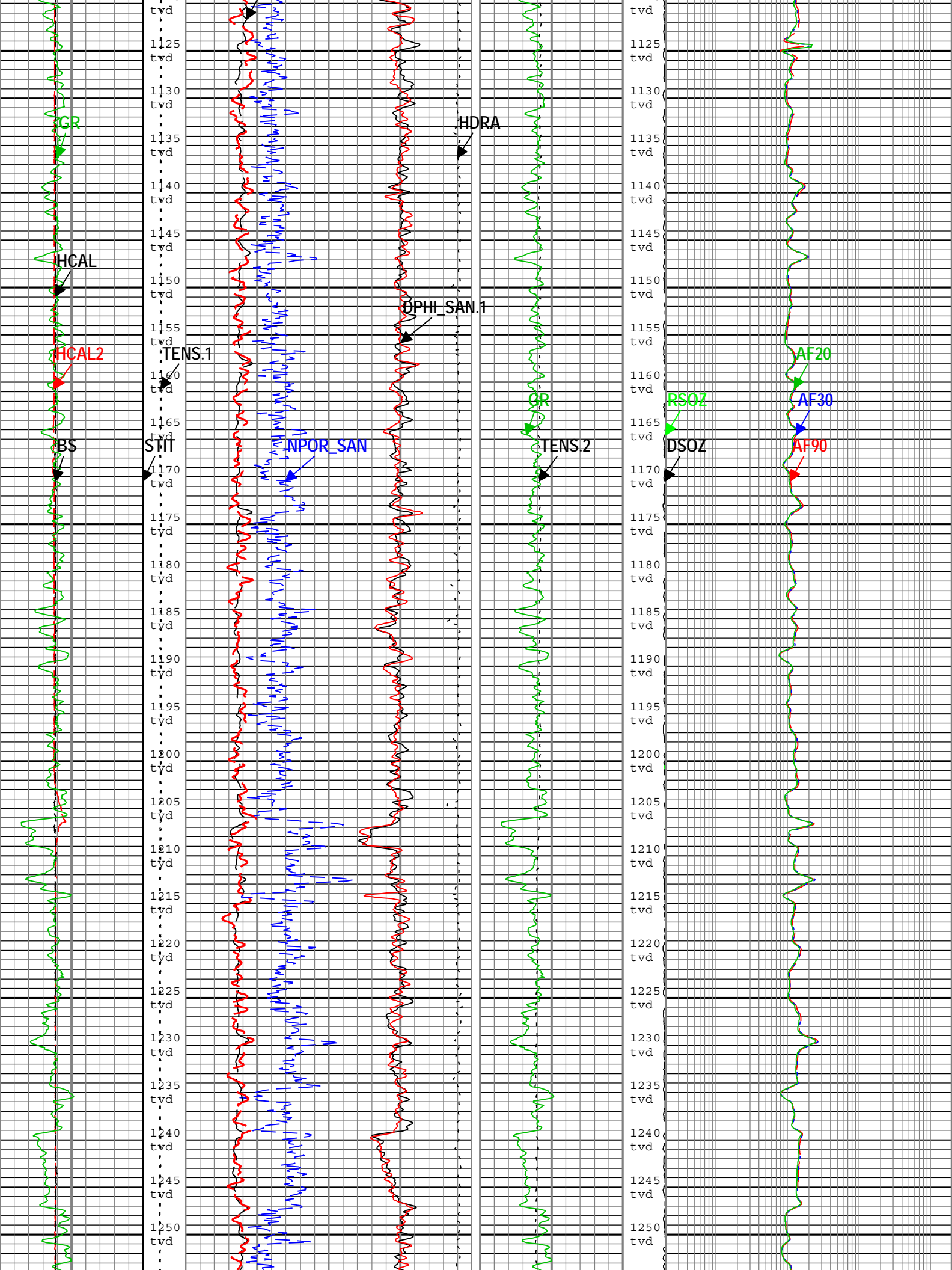


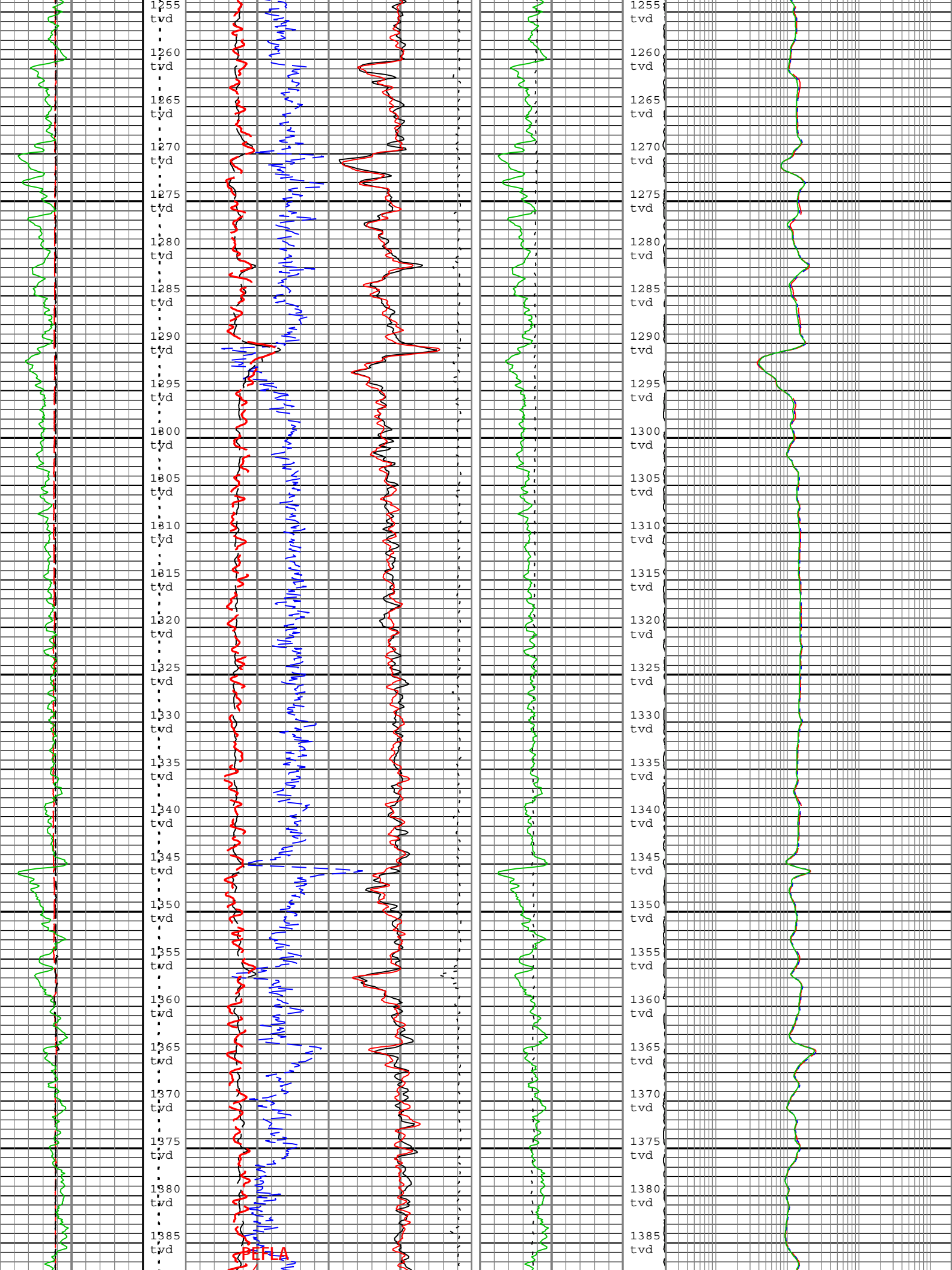


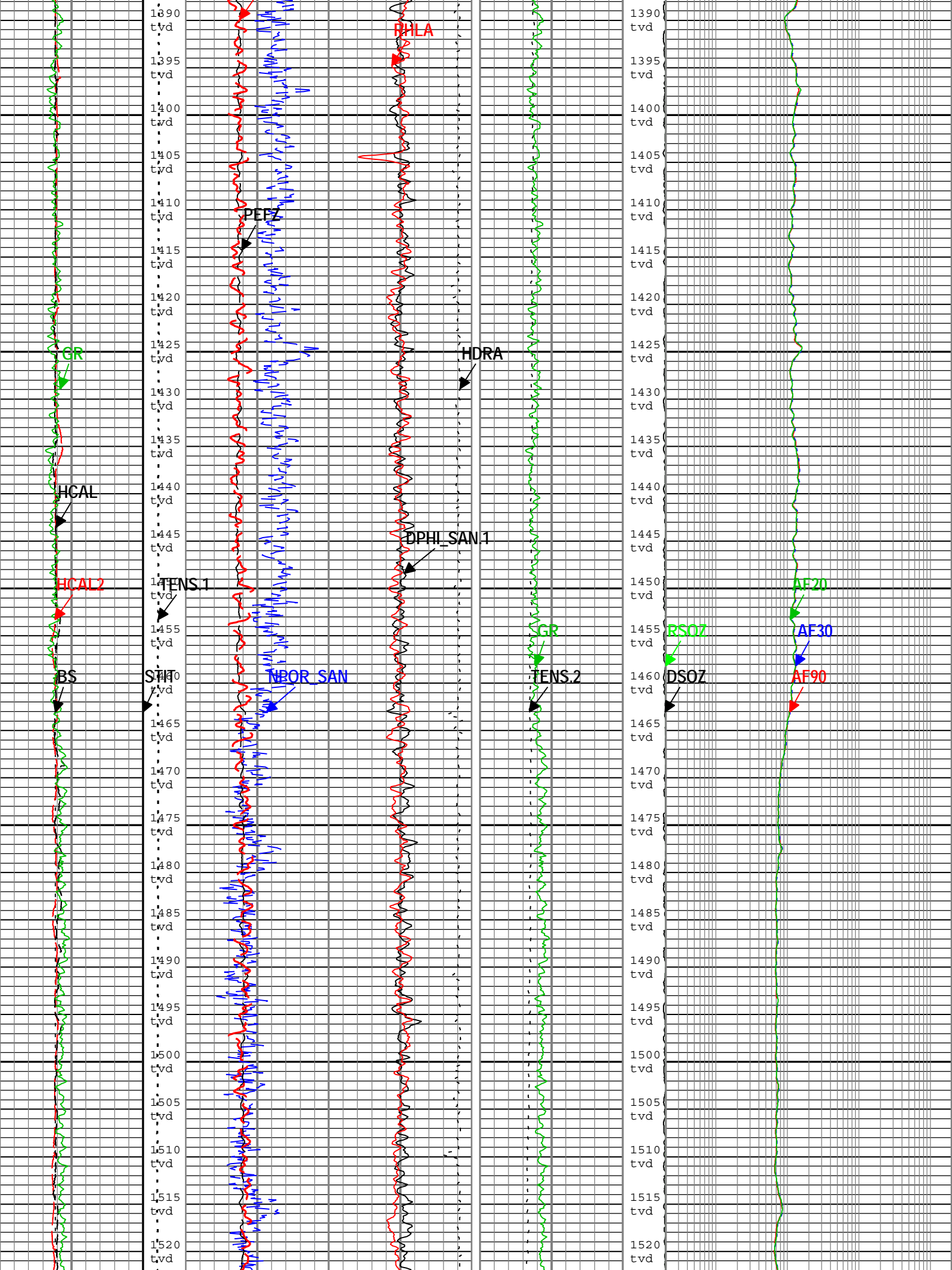


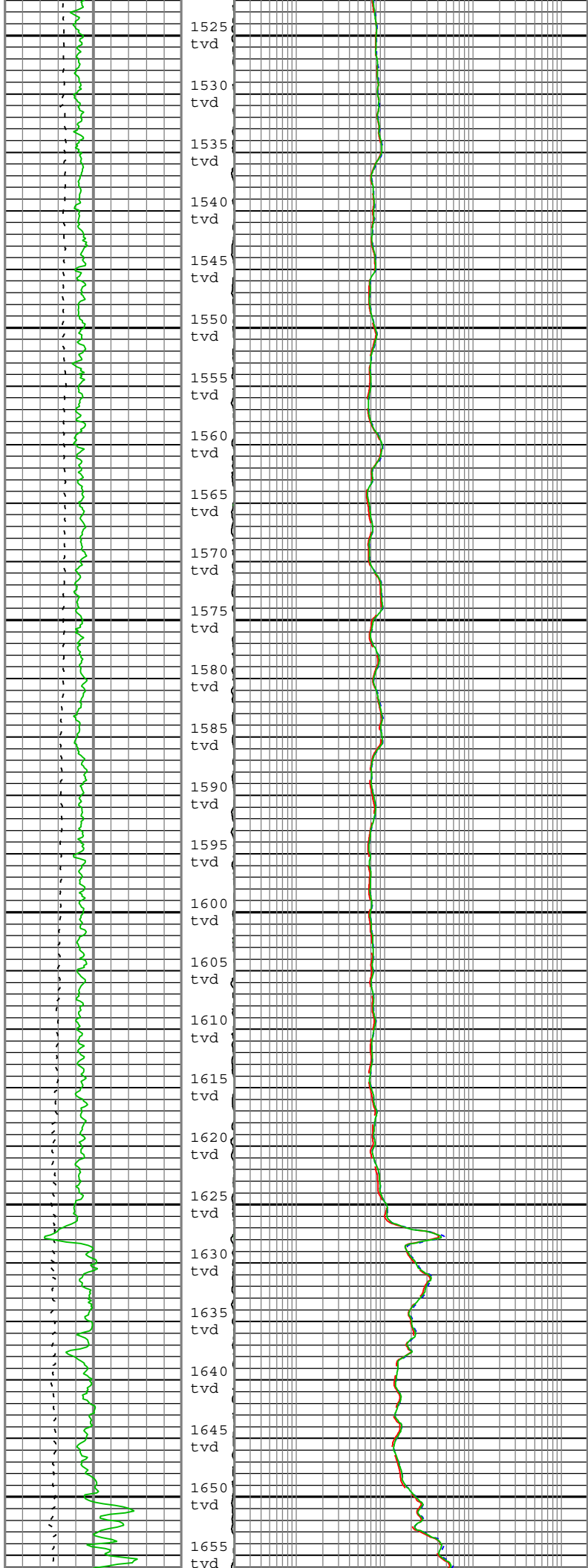
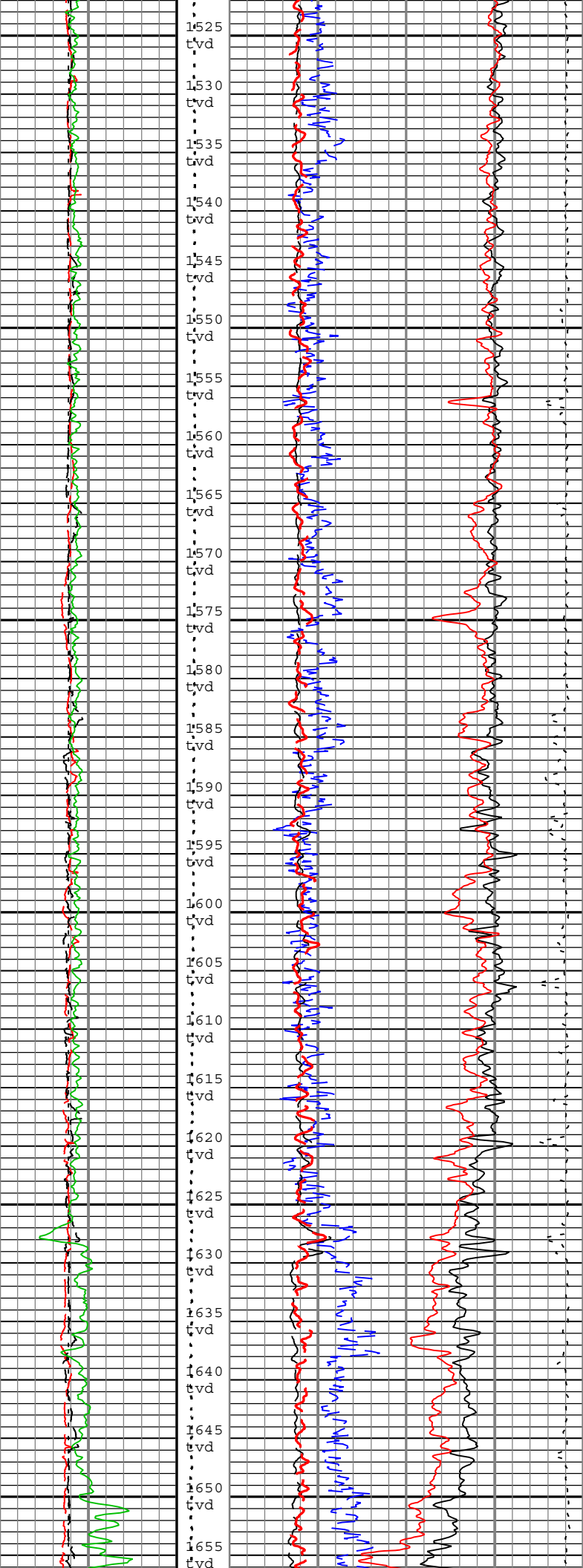


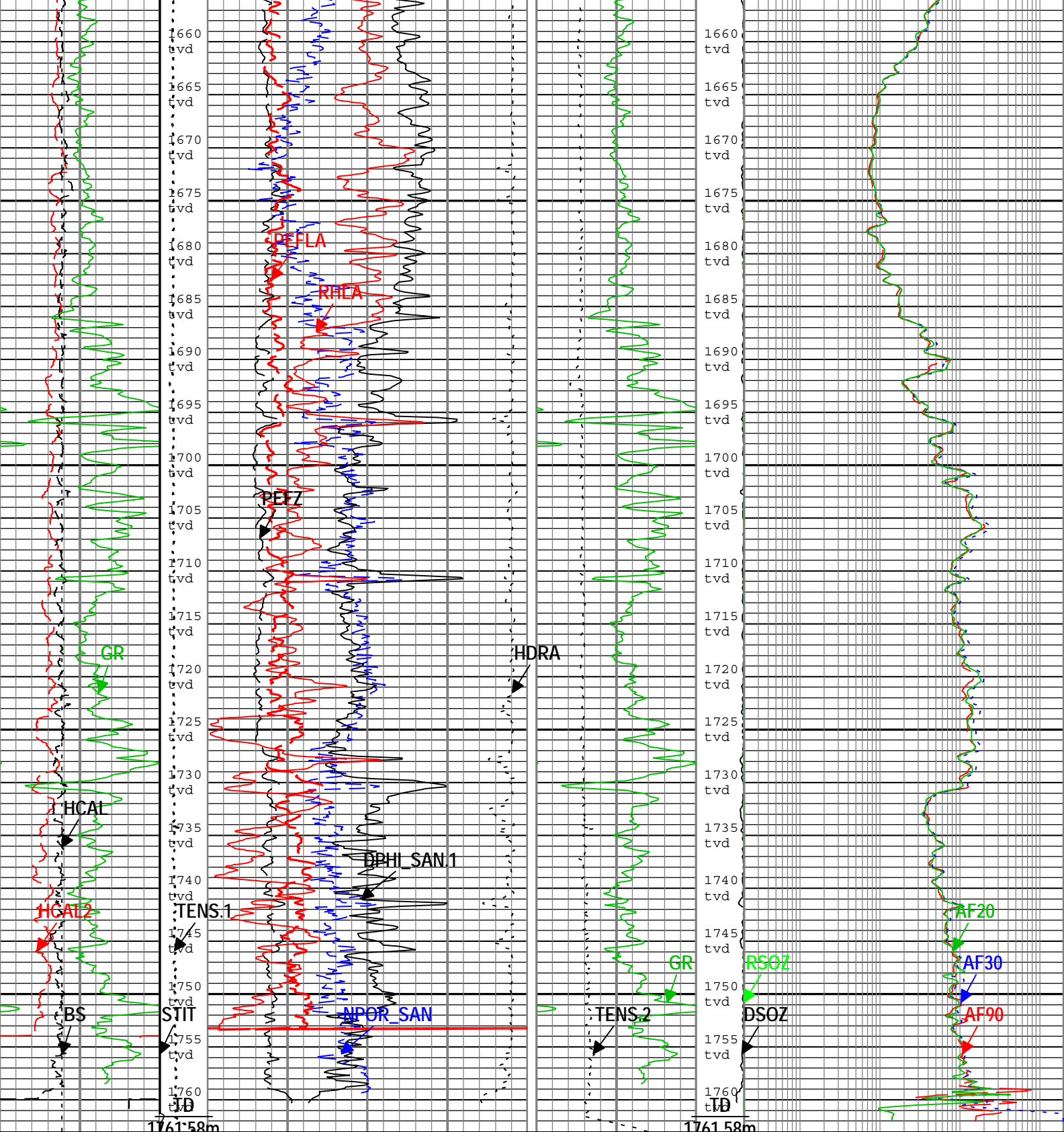












MAIN PASS - HALF SCALE LOG

Bit Size (BS)			Enhanced Thermal Neutron Porosity (matrix Sandstone) (NPOR_SAN) HGNS-H			Cable Tension (TENS).2			Standard Resolution Density Stand off (DSO Z) HDR S-H[1]			Array Induction Four Foot Resistivity A90 (AF90) AIT-M		
125	mm	375	0.45	m3/m3	-0.15	25000	N	0	0.2	ohm.m	2000	0.2	ohm.m	2000
HCAL2			DPHI_SAN2			GR			Array Induction Four Foot Resistivity A30 (AF30) AIT-M			Array Induction Four Foot Resistivity A20 (AF20) AIT-M		
125	mm	375	0.45	m3/m3	-0.15	0	gAPI	300	0.2	ohm.m	2000	0.2	ohm.m	2000
HCAL			Density Porosity (matrix Sandstone) (DPHI_SAN).1 HDRS-H[1]											
125	mm	375	0.45	m3/m3	-0.15									
GR														
0	gAPI	300												

<div> <div> Density Standoff Correction (HDRA) HDRS-H[1] </div> <div> <div>950</div> <div>kg/m3</div> <div>-50</div> </div> </div> <div> <div>Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-H[1]</div> <div> <div>0</div> <div>20</div> </div> </div> <div> <div>Long Spacing Apparent Density (RHLA) HDRS-H[2]</div> <div> <div>1900</div> <div>kg/m3</div> <div>2900</div> </div> </div> <div> <div>Formation Photoelectric Factor from Long Spacing Monosensor Inversion (PEFLA) HDRS-H[2]</div> <div> <div>0</div> <div>20</div> </div> </div>	<div> <div>50</div> <div>0</div> <div>mm</div> </div> <div> <div>Resis tivity Stand off Stand ard Resol ution (RSO Z) HDR S-H[1]</div> <div> <div>50</div> <div>0</div> <div>mm</div> </div> </div>	0.2	0mm.m	2000

Description: MCFL processing LQC for Platform Express Format: Log (HALFSCALE) Index Scale: 1:480 Index Unit: m Index Type: TVD Creation Date: 15-Jan-2014 01:22:24

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	574.97	603.01
BHS	Open	603.01	1763
BS	311	574.97	603.01
BS	222	603.01	1761.6
GCSE_UP_PASS	BS	574.97	603.01
GCSE_UP_PASS	CALI	603.01	1763
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			
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	

		Before-Master After-Before	----- -----	----- -----	0.000 ----	----- -----	<div><div></div></div>
Thru Cal Phase - 2	deg	Master	----	132.000	-179.506	-108.000	<div><div></div></div>
		Before	----	132.000	-170.938	-108.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master After-Before	---- ----	---- ----	8.568 ----	---- ----	<div><div></div></div>
Thru Cal Mag - 3	V	Master	----	0.420	0.715	0.980	<div><div></div></div>
		Before	----	0.420	0.715	0.980	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master After-Before	---- ----	---- ----	0.000 ----	---- ----	<div><div></div></div>
Thru Cal Phase - 3	deg	Master	----	131.000	179.717	-109.000	<div><div></div></div>
		Before	----	131.000	-171.711	-109.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master After-Before	---- ----	---- ----	-351.428 ----	---- ----	<div><div></div></div>
Thru Cal Mag - 4	V	Master	----	0.804	1.338	1.876	<div><div></div></div>
		Before	----	0.804	1.338	1.876	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master After-Before	---- ----	---- ----	0.000 ----	---- ----	<div><div></div></div>
Thru Cal Phase - 4	deg	Master	----	125.000	173.499	-115.000	<div><div></div></div>
		Before	----	125.000	-177.921	-115.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master After-Before	---- ----	---- ----	-351.420 ----	---- ----	<div><div></div></div>
Thru Cal Mag - 5	V	Master	----	1.176	1.944	2.744	<div><div></div></div>
		Before	----	1.176	1.943	2.744	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master After-Before	---- ----	---- ----	-0.001 ----	---- ----	<div><div></div></div>
Thru Cal Phase - 5	deg	Master	----	122.000	171.861	-118.000	<div><div></div></div>
		Before	----	122.000	-179.552	-118.000	<div><div></div></div>
		After	----	----	----	----	<div><div></div></div>
		Before-Master After-Before	---- ----	---- ----	-351.413 ----	---- ----	<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 After-Before	---- ----	---- ----	-0.001 ----	---- ----	<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 After-Before	---- ----	---- ----	-351.415 ----	---- ----	<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 After-Before	---- ----	---- ----	0.000 ----	---- ----	<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 After-Before	---- ----	---- ----	8.653 ----	---- ----	<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 After-Before	---- ----	---- ----	-0.011 ----	---- ----	<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 After-Before	---- ----	---- ----	-0.327 ----	---- ----	<div><div></div></div>
Temperature Zero	V	Master		-0.050	0.000	0.050	<div><div></div></div>

		Before	-----	-----	0.000	0.050	
		After	-----	-----	-----	-----	
		Before-Master	-----	-----	0.000	-----	
		After-Before	-----	-----	-----	-----	
Temperature Plus	V	Master		0.870	0.917	0.960	
		Before		0.870	0.917	0.960	
		After	-----	-----	-----	-----	
		Before-Master	-----	-----	0.000	-----	
		After-Before	-----	-----	-----	-----	

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	
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	

LS Window Ratio		Before-Master	-----	-----	-37	-----	
		Master	1.0000		0.2994		
		Before	0.2994	0.2844	0.2975	0.3144	
LS Window Sum	1/s	Before-Master	-----	-----	-0.0019	-----	
		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	

HDRS MCFL Calibration - MCFL Accumulations

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	

HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run 1.1

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	

HGNS Accelerometer Calibration - Accelerometer Accumulations

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	

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

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	-----	

HGNS Neutron Calibration - HGNS Neutron Accumulations

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

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	
RGR Zero Measurement	gAPI	Before	30.0	0	33.9	120.0	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before	185.4	157.1	159.9	206.3	
		After	----	----	NOT DONE	----	
		After-Before	----	----	----	----	
GR Calibration Gain		Before	0.89	0.80	1.03	1.05	
		After	----	----	----	----	
		After-Before	----	----	----	----	

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
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CBL Normalization - CBL Accumulations

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

Lower Far Amplitude - 0	mV	Master	-----	-----	-----	-----	
Lower Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	

CBL Normalization - CBL/VDL Coefficients

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

CBL Free Pipe Adjustment - Free Pipe Measurement

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

CBL Free Pipe Adjustment - CBL Amplitude Coefficient

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

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
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Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master Before Before-Master	1.0000 0.7406 -----	 0.7036 -----	0.7406 0.7452 0.0046	 0.7776 -----	
BS Window Sum	1/s	Master Before Before-Master	1 23979 -----	 22780 -----	23979 24136 157	 25178 -----	
SS Window Ratio		Master Before Before-Master	1.0000 0.4809 -----	 0.4569 -----	0.4809 0.4768 -0.0041	 0.5050 -----	
SS Window Sum	1/s	Master Before Before-Master	1 10589 -----	 10060 -----	10589 10583 -6	 11119 -----	
LS Window Ratio		Master Before Before-Master	1.0000 0.3042 -----	 0.2890 -----	0.3042 0.2988 -0.0054	 0.3194 -----	
LS Window Sum	1/s	Master Before Before-Master	1 1192 -----	 1132 -----	1192 1180 -12	 1251 -----	

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 Before Before-Master	 -----	1000 1000 -100	1448 1447 -1	2400 2400 100	
SS PM High Voltage	V	Master Before Before-Master	 -----	1000 1000 -100	1477 1506 29	2400 2400 100	
LS PM High Voltage	V	Master Before Before-Master	 -----	1000 1000 -100	1289 1286 -3	2400 2400 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 Before Before-Master	 -----	5.00 5.00 -1.00	10.46 10.41 -0.05	25.00 25.00 1.00	
SS Crystal Resolution	%	Master Before Before-Master	 -----	5.00 5.00 -1.00	10.04 10.64 0.60	20.00 20.00 1.00	
LS Crystal Resolution	%	Master Before Before-Master	 -----	5.00 5.00 -1.00	8.04 8.03 -0.01	20.00 20.00 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 After After-Before	 ----- -----	 ----- -----	1.169 ----- -----	 ----- -----	

SGT-N Gamma-Ray Calibration - Gamma Ray Accumulations

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	
RGR Zero Measurement	gAPI	Before		0	44.958	120.000	
		After	----	----	----	----	
		After-Before	----	----	----	----	
RGR Plus Measurement	gAPI	Before	141.161	128.328	141.161	153.994	
		After			NOT DONE		
		After-Before	----	----	----	----	

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

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

Survey Record

Survey Calculation			
Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	True North	Total Correction Formula :	Magnetic Dec

Rig Location			
Latitude :	65° 5' 27" N	Longitude :	126° 59' 58" W
Tie In Point			
Measured Depth:	0.00 m	Inclination:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m
		Azimuth:	0.00 deg
		East Displacement:	0.00 m

Survey Quality Index	
9 : Manual	28 : Tie-In Point

Survey Correction Index	
0 : No correction	

Survey Description Index	
0 : Not Flagged Survey	

Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azim (deg)	DLS deg/30m	Tool Type	QI	CI	DI
1	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
2	29.00	0.40	0.00	29.00	29.00	0.10	0.10	0.00	0.10	360.00	0.41	Other	9	0	0
3	62.00	0.50	0.00	33.00	62.00	0.36	0.36	0.00	0.36	360.00	0.09	Other	9	0	0
4	90.00	0.20	0.00	28.00	90.00	0.53	0.53	0.00	0.53	360.00	0.32	Other	9	0	0
5	118.00	0.20	0.00	28.00	118.00	0.63	0.63	0.00	0.63	360.00	0.00	Other	9	0	0

6	146.00	0.10	0.00	28.00	146.00	0.70	0.70	0.00	0.70	360.00	0.11	Other	9	0	0
7	183.00	0.20	0.00	37.00	183.00	0.80	0.80	0.00	0.80	360.00	0.08	Other	9	0	0
8	211.00	0.30	0.00	28.00	211.00	0.92	0.92	0.00	0.92	360.00	0.11	Other	9	0	0
9	240.00	0.50	0.00	29.00	240.00	1.12	1.12	0.00	1.12	360.00	0.21	Other	9	0	0
10	269.00	0.80	0.00	29.00	268.99	1.45	1.45	0.00	1.45	360.00	0.31	Other	9	0	0
11	306.00	1.00	0.00	37.00	305.99	2.03	2.03	0.00	2.03	360.00	0.16	Other	9	0	0
12	348.00	0.90	0.00	42.00	347.98	2.73	2.73	0.00	2.73	360.00	0.07	Other	9	0	0
13	378.00	0.40	0.00	30.00	377.98	3.07	3.07	0.00	3.07	360.00	0.50	Other	9	0	0
14	396.00	0.60	0.00	18.00	395.98	3.23	3.23	0.00	3.23	360.00	0.33	Other	9	0	0
15	433.00	0.60	0.00	37.00	432.98	3.62	3.62	0.00	3.62	360.00	0.00	Other	9	0	0
16	461.00	0.60	0.00	28.00	460.98	3.91	3.91	0.00	3.91	360.00	0.00	Other	9	0	0
17	489.00	0.50	0.00	28.00	488.98	4.18	4.18	0.00	4.18	360.00	0.11	Other	9	0	0
18	508.00	0.70	0.00	19.00	507.98	4.38	4.38	0.00	4.38	360.00	0.32	Other	9	0	0
19	544.00	0.40	0.00	36.00	543.97	4.72	4.72	0.00	4.72	360.00	0.25	Other	9	0	0
20	571.00	0.50	0.00	27.00	570.97	4.93	4.93	0.00	4.93	360.00	0.11	Other	9	0	0
21	627.50	0.31	124.14	56.50	627.47	5.09	5.09	0.13	5.10	1.42	0.38	Other	9	0	0
22	704.50	0.62	137.27	77.00	704.47	4.67	4.67	0.58	4.71	7.10	0.13	Other	9	0	0
23	781.50	0.71	129.47	77.00	781.46	4.06	4.06	1.23	4.25	16.88	0.05	Other	9	0	0
24	818.50	0.71	121.14	37.00	818.46	3.80	3.80	1.61	4.12	22.92	0.08	Other	9	0	0
25	856.50	1.28	112.77	38.00	856.46	3.51	3.51	2.20	4.14	32.05	0.46	Other	9	0	0
26	896.50	1.28	113.56	40.00	896.45	3.16	3.16	3.02	4.37	43.70	0.01	Other	9	0	0
27	932.50	1.19	113.98	36.00	932.44	2.85	2.85	3.73	4.69	52.64	0.08	Other	9	0	0
28	970.50	0.88	151.55	38.00	970.43	2.43	2.43	4.23	4.88	60.11	0.57	Other	9	0	0
29	1008.50	1.02	147.85	38.00	1008.43	1.89	1.89	4.55	4.93	67.46	0.12	Other	9	0	0
30	1046.50	1.19	133.05	38.00	1046.42	1.33	1.33	5.02	5.19	75.13	0.26	Other	9	0	0
31	1084.50	1.50	124.45	38.00	1084.41	0.78	0.78	5.72	5.77	82.21	0.29	Other	9	0	0
32	1122.50	1.10	145.78	38.00	1122.40	0.20	0.20	6.33	6.33	88.20	0.49	Other	9	0	0
33	1160.50	1.19	131.15	38.00	1160.39	-0.36	-0.36	6.83	6.84	93.04	0.24	Other	9	0	0
34	1198.50	2.12	145.56	38.00	1198.38	-1.20	-1.20	7.53	7.62	99.07	0.80	Other	9	0	0
35	1236.50	1.81	176.76	38.00	1236.35	-2.38	-2.38	7.96	8.31	106.65	0.87	Other	9	0	0
36	1274.50	1.41	163.67	38.00	1274.34	-3.43	-3.43	8.12	8.82	112.88	0.43	Other	9	0	0
37	1312.50	1.90	156.64	38.00	1312.32	-4.46	-4.46	8.51	9.60	117.65	0.42	Other	9	0	0
38	1351.50	2.12	141.06	39.00	1351.30	-5.61	-5.61	9.22	10.79	121.33	0.45	Other	9	0	0
39	1389.50	2.90	172.66	38.00	1389.27	-7.11	-7.11	9.78	12.09	126.02	1.23	Other	9	0	0
40	1426.50	2.78	175.74	37.00	1426.22	-8.93	-8.93	9.97	13.38	131.87	0.16	Other	9	0	0
41	1446.00	4.20	204.66	19.50	1445.68	-10.05	-10.05	9.70	13.97	136.02	3.41	Other	9	0	0
42	1464.50	2.70	229.77	18.50	1464.15	-10.95	-10.95	9.09	14.23	140.31	3.40	Other	9	0	0
43	1474.50	4.02	247.44	10.00	1474.13	-11.24	-11.24	8.58	14.14	142.62	4.99	Other	9	0	0
44	1483.50	4.60	257.05	9.00	1483.11	-11.44	-11.44	7.94	13.93	145.23	3.08	Other	9	0	0
45	1493.50	6.32	262.42	10.00	1493.06	-11.60	-11.60	7.01	13.55	148.88	5.38	Other	9	0	0
46	1503.00	7.11	268.46	9.50	1502.50	-11.69	-11.69	5.90	13.09	153.22	3.34	Other	9	0	0
47	1512.50	8.09	268.37	9.50	1511.91	-11.72	-11.72	4.64	12.61	158.39	3.09	Other	9	0	0
48	1522.00	8.62	267.36	9.50	1521.31	-11.77	-11.77	3.26	12.22	164.51	1.74	Other	9	0	0
49	1531.50	9.81	264.58	9.50	1530.69	-11.88	-11.88	1.75	12.01	171.64	4.01	Other	9	0	0
50	1541.00	10.78	267.18	9.50	1540.04	-12.00	-12.00	0.05	12.00	179.74	3.40	Other	9	0	0
51	1550.50	11.62	269.47	9.50	1549.36	-12.06	-12.06	-1.79	12.19	188.45	3.00	Other	9	0	0
52	1560.00	12.59	269.78	9.50	1558.65	-12.07	-12.07	-3.78	12.65	197.40	3.07	Other	9	0	0
53	1569.50	14.41	271.28	9.50	1567.88	-12.05	-12.05	-6.00	13.46	206.48	5.85	Other	9	0	0
54	1580.00	15.60	270.75	10.50	1578.02	-12.00	-12.00	-8.72	14.83	216.00	3.42	Other	9	0	0
55	1599.00	19.40	278.37	19.00	1596.14	-11.51	-11.51	-14.40	18.43	231.37	6.99	Other	9	0	0
56	1608.50	19.31	287.85	9.50	1605.11	-10.79	-10.79	-17.45	20.52	238.27	9.92	Other	9	0	0
57	1617.50	19.80	296.44	9.00	1613.59	-9.66	-9.66	-20.24	22.42	244.48	9.71	Other	9	0	0
58	1627.00	20.19	300.14	9.50	1622.52	-8.12	-8.12	-23.09	24.48	250.63	4.18	Other	9	0	0
59	1636.50	21.21	303.36	9.50	1631.41	-6.35	-6.35	-25.95	26.71	256.25	4.83	Other	9	0	0

60	1645.50	22.80	306.18	9.00	1639.75	-4.43	-4.43	-28.72	29.05	261.24	6.36	Other	9	0	0
61	1655.00	24.48	309.35	9.50	1648.45	-2.09	-2.09	-31.72	31.79	266.23	6.65	Other	9	0	0
62	1664.50	27.22	309.27	9.50	1657.00	0.53	0.53	-34.93	34.93	270.87	8.65	Other	9	0	0
63	1674.00	29.12	310.94	9.50	1665.38	3.42	3.42	-38.36	38.51	275.10	6.50	Other	9	0	0
64	1683.50	31.20	312.66	9.50	1673.59	6.61	6.61	-41.91	42.43	278.96	7.11	Other	9	0	0
65	1693.00	33.41	312.66	9.50	1681.62	10.05	10.05	-45.65	46.74	282.41	6.98	Other	9	0	0
66	1702.50	36.10	310.68	9.50	1689.42	13.64	13.64	-49.69	51.53	285.35	9.21	Other	9	0	0
67	1712.00	38.62	308.96	9.50	1696.98	17.33	17.33	-54.12	56.83	287.76	8.61	Other	9	0	0
68	1721.50	41.71	305.96	9.50	1704.23	21.05	21.05	-58.99	62.63	289.64	11.51	Other	9	0	0
69	1731.00	44.19	306.67	9.50	1711.19	24.89	24.89	-64.20	68.86	291.19	7.98	Other	9	0	0
70	1740.50	47.02	306.67	9.50	1717.83	28.94	28.94	-69.65	75.42	292.56	8.94	Other	9	0	0
71	1750.00	48.61	307.77	9.50	1724.21	33.20	33.20	-75.25	82.25	293.81	5.64	Other	9	0	0
72	1759.50	50.91	309.66	9.50	1730.35	37.74	37.74	-80.91	89.27	295.00	8.57	Other	9	0	0
73	1769.00	52.32	310.15	9.50	1736.25	42.51	42.51	-86.62	96.49	296.14	4.61	Other	9	0	0
74	1778.50	55.50	312.17	9.50	1741.84	47.57	47.57	-92.39	103.92	297.24	11.29	Other	9	0	0
75	1788.00	57.58	311.87	9.50	1747.08	52.87	52.87	-98.28	111.60	298.28	6.62	Other	9	0	0
76	1797.50	60.41	310.28	9.50	1751.97	58.22	58.22	-104.42	119.55	299.14	9.92	Other	9	0	0
77	1807.00	63.10	308.96	9.50	1756.47	63.55	63.55	-110.87	127.79	299.82	9.25	Other	9	0	0
78	1816.50	66.11	308.78	9.50	1760.54	68.94	68.94	-117.55	136.27	300.39	9.52	Other	9	0	0
79	1825.00	69.51	308.34	8.50	1763.75	73.84	73.84	-123.70	144.07	300.84	12.09	Other	9	0	0
80	1835.00	73.49	307.55	10.00	1766.93	79.67	79.67	-131.18	153.48	301.27	12.15	Other	9	0	0
81	1845.00	76.71	307.55	10.00	1769.50	85.56	85.56	-138.84	163.09	301.64	9.66	Other	9	0	0
82	1854.50	79.10	305.56	9.50	1771.49	91.09	91.09	-146.30	172.34	301.91	9.73	Other	9	0	0
83	1864.00	80.20	304.07	9.50	1773.19	96.43	96.43	-153.97	181.68	302.06	5.79	Other	9	0	0
84	1873.50	82.02	303.67	9.50	1774.66	101.66	101.66	-161.77	191.06	302.15	5.88	Other	9	0	0
85	1883.00	84.71	302.88	9.50	1775.76	106.84	106.84	-169.66	200.49	302.20	8.85	Other	9	0	0
86	1889.50	86.61	302.26	6.50	1776.25	110.33	110.33	-175.12	206.97	302.21	9.22	Other	9	0	0

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