Schlumberger

Company: Fidelity Exploration and Production

Well: V Bar 1 Cattle 1 ST2

Field: Wildcat

County: Sioux Country: USA

County: Sioux
Field: Wildcat
Location: Sec. 26, T26N, R56W NESE
Well: V Bar 1 Cattle 1 ST2
Company: Fidelity Exploration and Production

Platform Express

Triple Combo

Location:			
Sec. 26, T26N, R56W NESE SHL: 1980 FSL X 660 FEL.	Elev.	K.B.	4843.00 ft
		G.L.	4832.00 ft
		D.F.	4843.00 ft
Permanent Datum: Ground Level	Elev.:	4832.00 f	
Log Measured From: Kelly Bushing	11.00 ft	above Perm.Datum	
Drilling Measured From: Kelly Bushing			

API Serial No.	Max.Hole Deviation	Longitude:	Latitude:
26-165-21167-00-00	0 deg	-103.81990 degrees	42.194730 degrees

Logging Date			06-Jul-2012			
Run Number			Run 1: PEX-ECS-HNGS-ZAIT			
Depth Driller			8156.00 ft			
Schlumberger Depth			8142.00 ft			
Bottom Log Interval			8142.00 ft			
Top Log Interval			6200.00 ft			
Casing Driller Size @ Depth			9.625 in @ 7523.00 ft			
Casing Schlumberger			7520 ft			
Bit Size			8.5 in			
Type Fluid In Hole			Chemical Gel			
MUD	Density	Viscosity	8.65 lbm/gal	35 s		
	Fluid Loss	PH	4.4 cm3	7.7		
	Source of Sample		Active Tank			
RM @ Meas Temp			0.9 ohm.m @ 85.1 degF			
RMF @ Meas Temp			0.68 ohm.m @ 86 degF			
RMC @ Meas Temp			1.1 ohm.m @ 85.6 degF			
Source RMF		RMC	Pressed	Pressed		
RM @ BHT		RMF @ BHT	0.42 @ 187	0.32 @ 187		
Max Recorded Temperatures			187 degF			
Circulation Stopped		Time	06-Jul-2012	06:30:00		
Logger on Bottom		Time				
Unit Number		Location:	3022	Fort Morgan		
Recorded By			Allison Johnston			
Witnessed By			Michael Hirsch			

Disclaimer

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Contents

1. Header
2. Disclaimer
3. Contents
4. Well Sketch
5. Borehole Size/Casing/Tubing Record
6. Operational Run Summary
7. Borehole Fluids
8. Remarks and Equipment Summary
9. Depth Summary
10. Run 1: PEX-ECS-HNGS-ZAIT 5" Triple Combo
    10.1 Integration Summary
    10.2 Software Version
    10.3 Composite Summary
    10.4 Log (EMD 5in Triple Combo)
    10.5 Parameter Listing
11. Run 1: PEX-ECS-HNGS-ZAIT 5" Triple Combo
    11.1 Composite Summary

11.2 Log (EMD 5in Triple Combo RA)
12. Calibration Report
13. Tail

Borehole Size/Casing/Tubing Record

Bit						
Bit Size (in)	12.25	8.5				
Top Driller (ft)	0	7523				
Top Logger (ft)	0	7523				
Bottom Driller (ft)	7523	8156				
Bottom Logger (ft)	7523	8142				
Casing						
Size (in)	9.625	9.625				
Weight (lbm/ft)	36	47				
Inner Diameter (in)	8.914	8.685				
Grade	N/A	N/A				
Top Driller (ft)	0	6042				
Top Logger (ft)	0	6042				
Bottom Driller (ft)	6042	7523				
Bottom Logger (ft)	6042	7520				

Operational Run Summary

Parameter (unit)	Run 1: PEX-ECS-HNGS-ZAIT					
Date Log Started	06-Jul-2012					
Time Log Started	15:09:38					
Date Log Finished	06-Jul-2012					
Time Log Finished	19:02:03					
Top Log Interval (ft)	6200.00					
Bottom Log Interval (ft)	8142.00					
Total Depth (ft)	8142.00					
Max Hole Deviation (deg)	0.00					
Azimuth of Max Deviation (deg)	0.00					
Bit Size (in)	8.500					
Logging Unit Number	3022					
Logging Unit Location	Fort Morgan					
Recorded By	Allison Johnston					
Witnessed By	Michael Hirsch					
Service Order Number	C31T-00025					

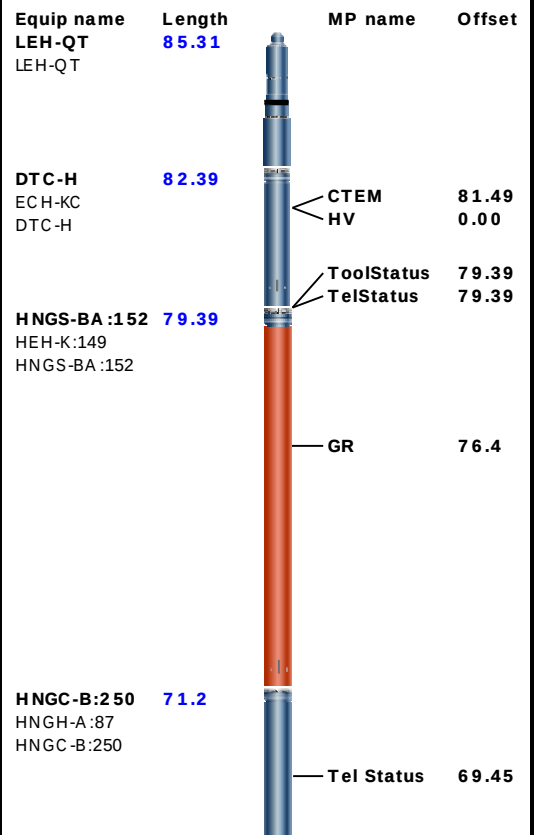
Borehole Fluids

Parameter(unit)	Run 1: PEX-ECS-HNGS-					

	ZAIT					
Fluid Type	Water					
Fluid Name	Chemical Gel					
Max Recorded Temperatures (degF)	187					
Source of Sample	Active Tank					
Salinity (ppm)	5527.92					
Density (lbm/gal)	8.65					
Funnel Viscosity (s)	35					
Fluid Loss (cm3)	4.4					
PH	7.7					
Date/Time Circulation Stopped	06-Jul-2012 06:30:00					
Date Logger on Bottom	NaN					
Time Logger on Bottom	NaN					
Source RMF	Pressed					
RMC	Pressed					
RM @ Meas Temp (ohm.m@degF)	0.9 @ 85.1					
RMF @ Meas Temp (ohm.m@degF)	0.68 @ 86					
RMC @ Meas Temp (ohm.m@degF)	1.1 @ 85.6					
RM @ BHT (ohm.m@degF)	0.42 @ 187					
RMF @ BHT (ohm.m@degF)	0.32 @ 187					
RMC @ BHT (ohm.m@degF)	0.52 @ 187					
Total Solid (%)						
High Gravity Solids (%)						

Remarks and Equipment Summary

Run 1: PEX-ECS-HNGS-ZAIT: Toolstring



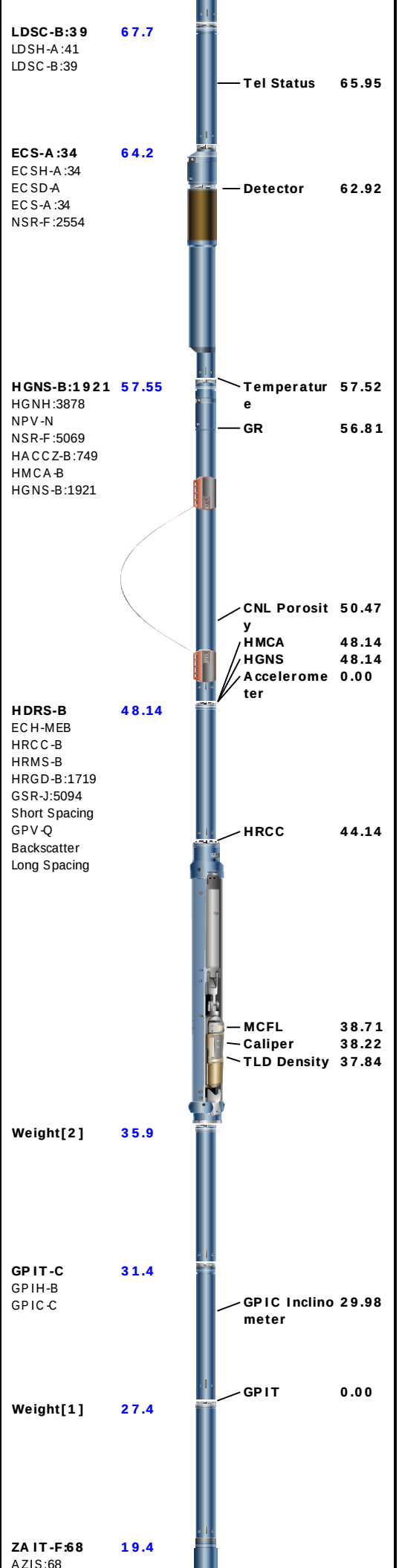
Run 1: PEX-ECS-HNGS-ZAIT: Remarks

Toolstring run as per tool sketch. Bowspring used to eccentralize the ECS and neutron tool.

Calculated on a limestone (2.71 g/cc) matrix.

Schlumberger Crew: Jake Jump and Ed Ponce

Rig: Capstar 321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LDSH-A:41
LDSC-B:39
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ECSD-A
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NSR-F:2554
Detector 62.92
HGNS-B:1921 57.55
HGNH:3878
NPV-N
NSR-F:5069
HACCZ-B:749
HMCA-B
HGNS-B:1921
Temperature 57.52
GR 56.81
CNL Porosity 50.47
HMCA 48.14
HGNS 48.14
Accelerometer 0.00
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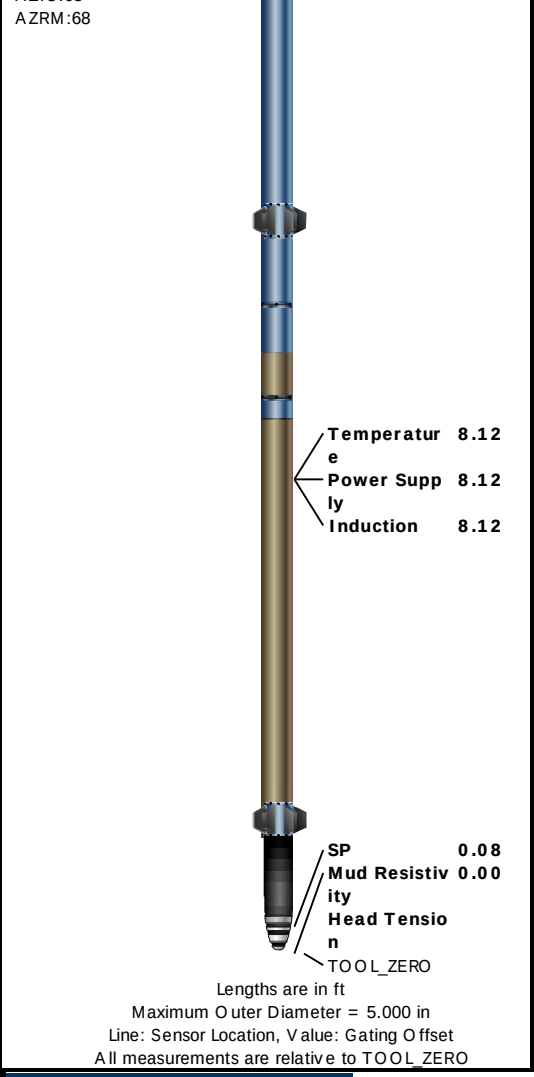
ECH-MEB
HRCC-B
HRMS-B
HRGD-B:1719
GSR-J:5094
Short Spacing
GPV-Q
Backscatter
Long Spacing
HRCC 44.14
MCFL 38.71
Caliper 38.22
TLD Density 37.84
Weight[2] 35.9
GPIT-C 31.4
GPIH-B
GPIC-C
GPIC Inclinometer 29.98
GPIT 0.00
Weight[1] 27.4
ZAIT-F:68 19.4
AZIS:68



Depth Summary

Depth Control Parameters	Run 1: PEX-ECS-HNGS-ZAIT		
Conveyance Type	Wireline		
Log Sequence	First run in well.		
Rig Up Length at Surface (ft)	0.00		
Rig Up Length at Bottom (ft)	0.00		
Rig Up Length Correction (ft)	0.00		
Stretch Correction (ft)	3.00		
Tool Zero Reference Check at Surface (ft)	0.00		
Rig Type	Land		
Depth Remark Parameters	**Run 1: PEX-ECS-HNGS-ZAIT**		
Depth Remark 1	This is the primary depth reference.		
Depth Remark 2	All Schlumberger depth procedures followed.		
Depth Remark 3	IDW used as primary depth control, z-chat used as secondary depth control.		
Depth Remark 4	Up log correlated to down log using spectral gamma ray to account for stretch.		
Depth Measuring Device	**Run 1: PEX-ECS-HNGS-ZAIT**		
Type	IDW-B		
Serial Number	6405		
Calibration Date	06-Jun-2012		
Calibration Cable Type	7-39-PLXS		
Wheel Correction 1	-6		

Wheel Correction 2	-5		
Tension Device	**Run 1: PEX-ECS-HNGS-ZAIT**		
Type	CMTD-B/A		
Serial Number	1109		
Calibration Date	14-Jun-2012		
Calibrator Serial Number	100513		
Calibration Points	10		
Calibration RMS	5		
Calibration Peak Error	11		
Logging Cable	**Run 1: PEX-ECS-HNGS-ZAIT**		
Type	7-39P-LXS		
Serial Number	U711075		
Logging Cable Length (ft)	16700.00		

Run 1: PEX-ECS-HNGS-ZAIT

5" Triple Combo

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit

Software Version

Acquisition System	Version
MaxWell	3.1.9755.0
Application Patch	SP-20120614-3.1.9755.1038

Computation	Description	Version
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections	3.1.9755.0
DepthCorrection	DepthCorrection	3.1.9755.0

Tool Elements	Description	Software Version	Firmware Version
AZIS	Array Induction Sonde - Z	3.1.9755.1038	
HRGD-B	HILT Resistivity Gamma-Ray Density Device, 125 degC	3.1.9755.0	3.0
HNGS-BA	HNGS Sonde Element	3.1.9755.0	2.0
HGNS-B	HILT Gamma-Ray and Neutron Sonde, 125 degC	3.1.9755.0	2.0
HRCC-B	HILT High-Resolution Control Cartridge, 125 degC	3.1.9755.0	2.0

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run 1: PEX-ECS-HNGS-ZAIT	Log[6]:Up	Up	6166.60 ft	8154.70 ft	06-Jul-2012 5:48:20 PM	06-Jul-2012 6:58:29 PM	0.00 ft	

All depths are referenced to toolstring zero

Log

Run 1: PEX-ECS-HNGS-ZAIT: Log[6]:Up

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 07-Jul-2012 02:06:47

Channel	Source	Sampling
AT20	ZAIT-F:AZIS:AZIS	3in
AT30	ZAIT-F:AZIS:AZIS	3in
AT60	ZAIT-F:AZIS:AZIS	3in
AT90	ZAIT-F:AZIS:AZIS	3in
CALI	HDRS-B:HRCC-B:HRCC-B	1in
DPHZ	HDRS-B:HRMS-B:HRGD-B	2in

GR	HGNS-B:HGNS-B:HGNS-B	6in
NPOR	HGNS-B:HGNS-B:HGNS-B	6in
PEFZ	HDRS-B:HRMS-B:HRGD-B	2in
SGR	HNGS-BA:HNGS-BA:HNGS-BA	6in
SP	ZAIT-F:AZIS:AZIS	6in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in
TIME_1900	WLWorkflow	0.1in

TIME_1900 - Time Marked every 60.00 (s)

Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-B
0 10

Gas Effect

NPOR Backup

Array Induction Two Foot Resistivity A30 (AT30) ZAIT-F
2 ohm.m 2000

Array Induction Two Foot Resistivity A90 (AT90) ZAIT-F
2 ohm.m 2000

Cable Tension (TENS)
5000 lbf 0

Caliper (CALI) HDRS-B
6 in 16

Array Induction Two Foot Resistivity A60 (AT60) ZAIT-F
2 ohm.m 2000

Standard Resolution Density Porosity (DPHZ) HDRS-B
0.3 ft3/ft3 -0.1

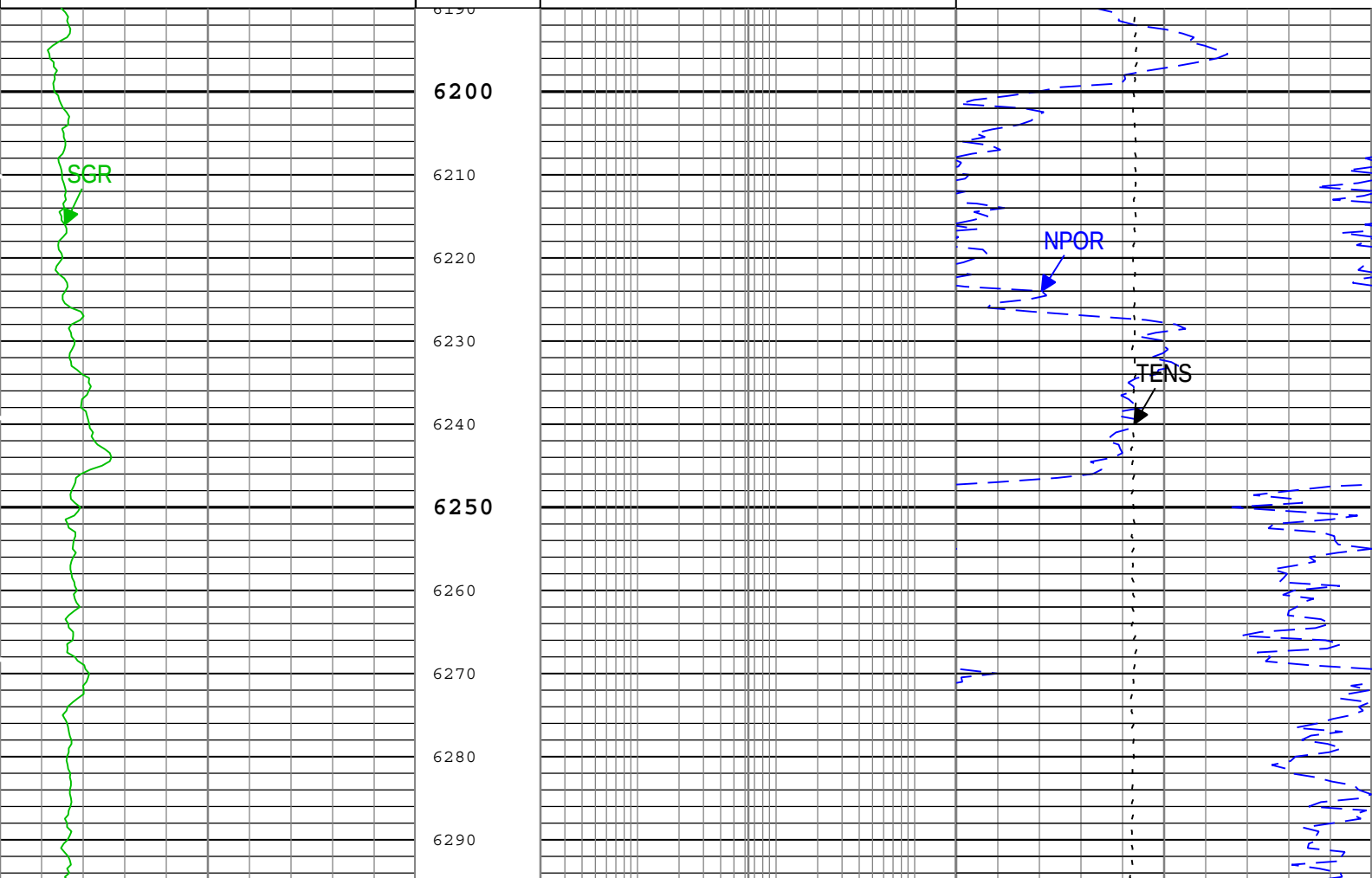
Spontaneous Potential (SP) ZAIT-F
-160 mV 40

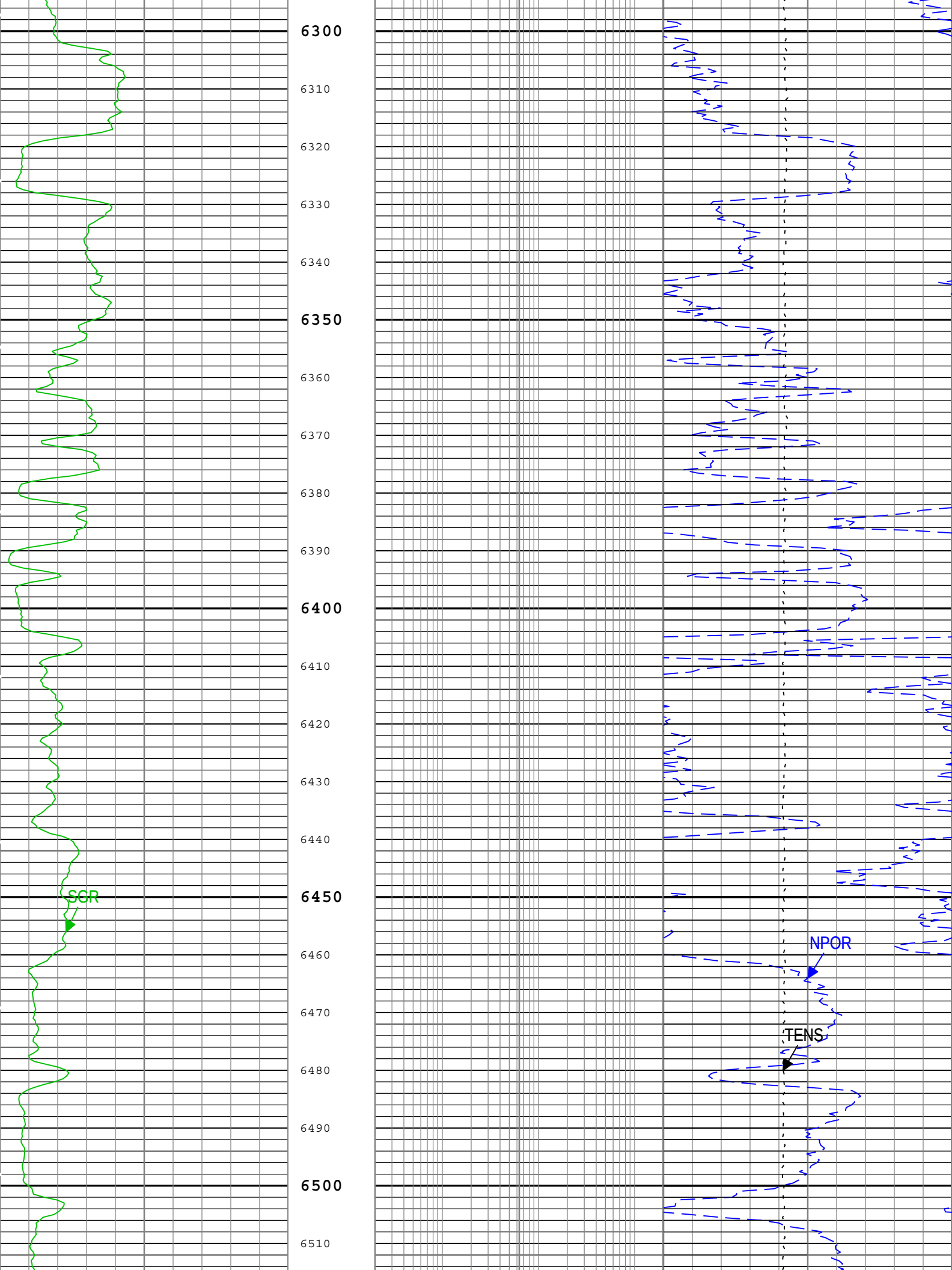
Stuck Tool Indicator, Total (STIT)
0 ft 50

Array Induction Two Foot Resistivity A20 (AT20) ZAIT-F
2 ohm.m 2000

Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-B
0.3 m3/m3 -0.1

Spectroscopy Gamma Ray (SGR) HNGS-BA
0 gAPI 150

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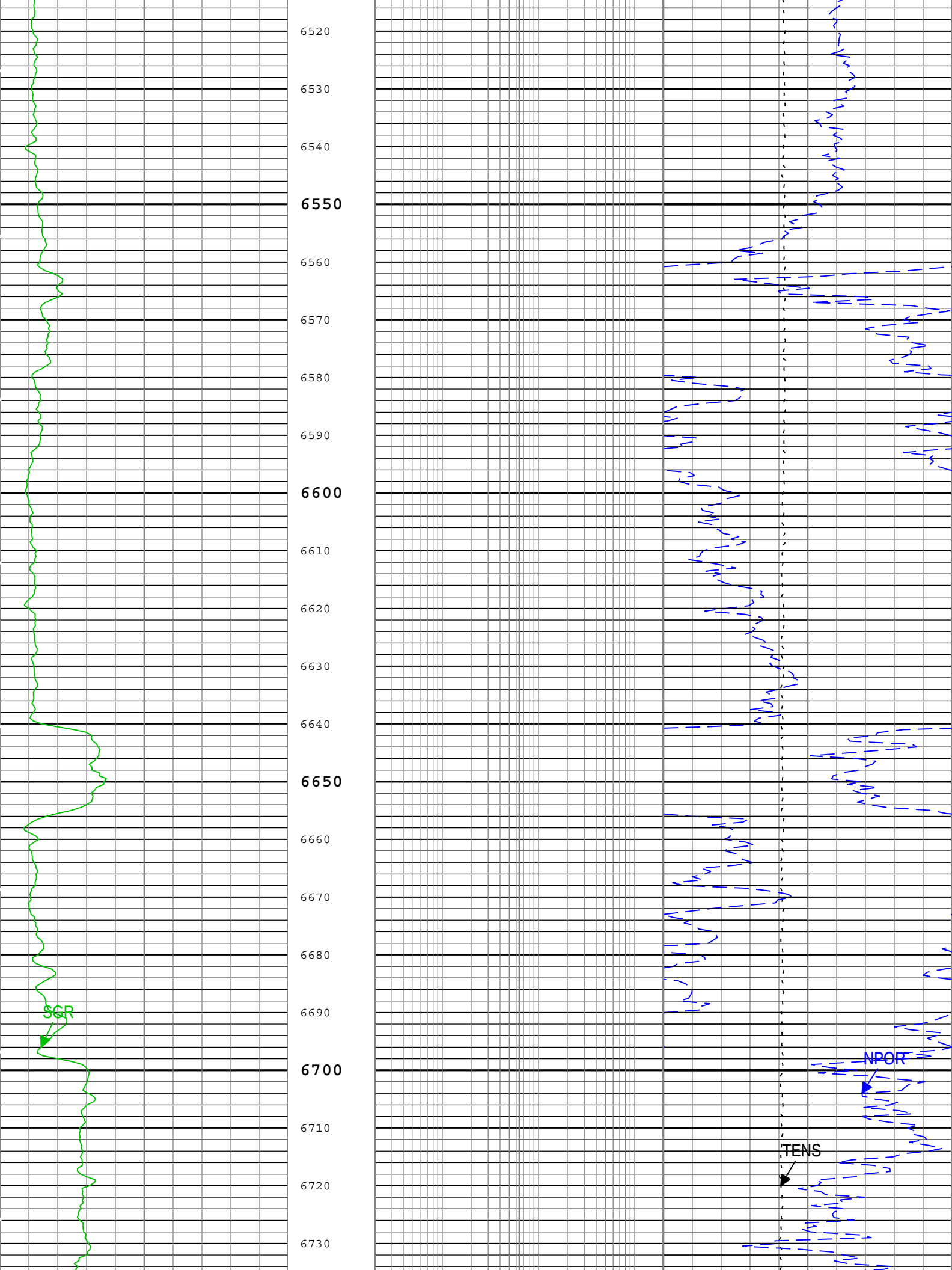
SGR
NPOR
TENS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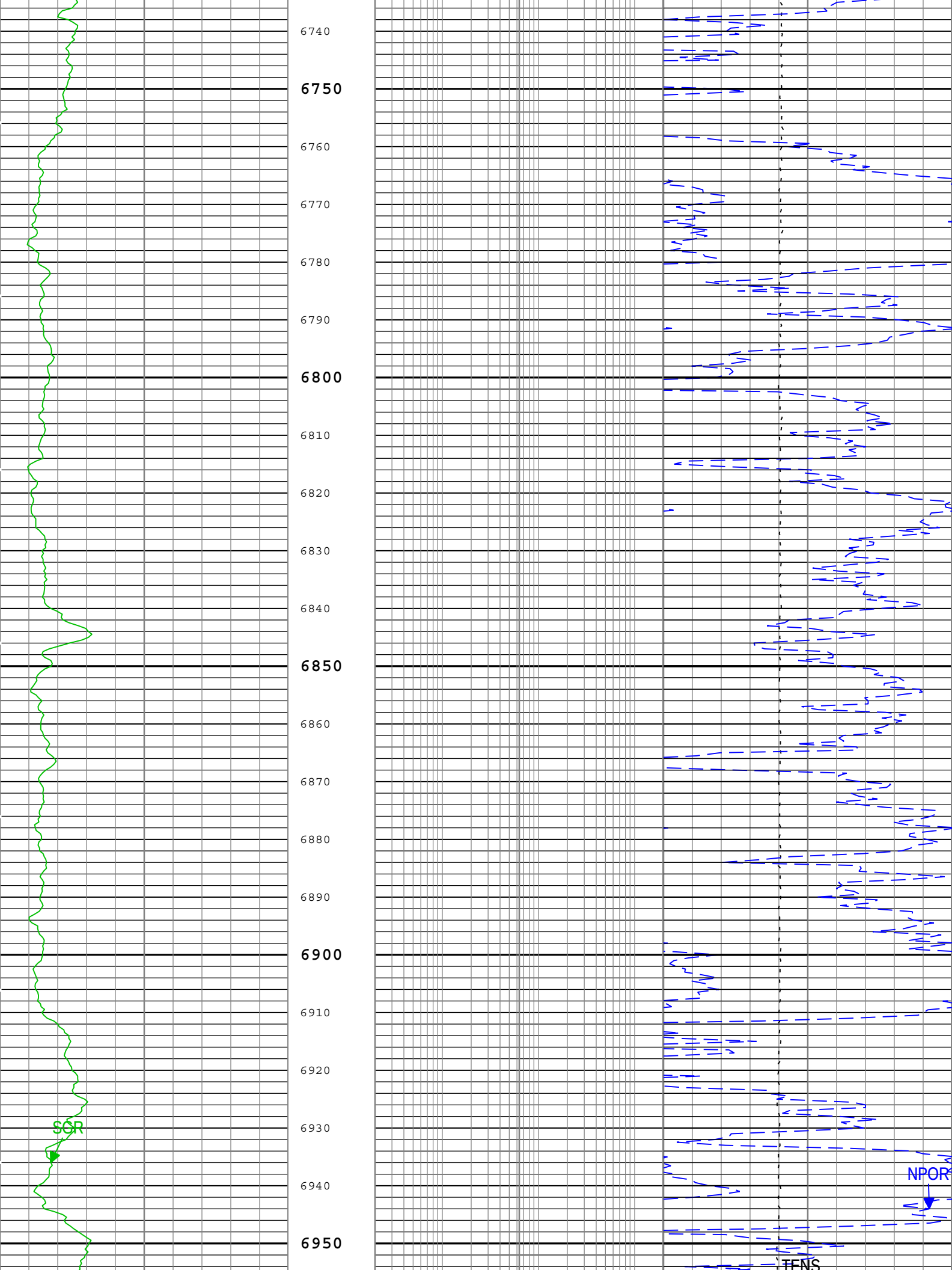
SGR
NPOR
TENS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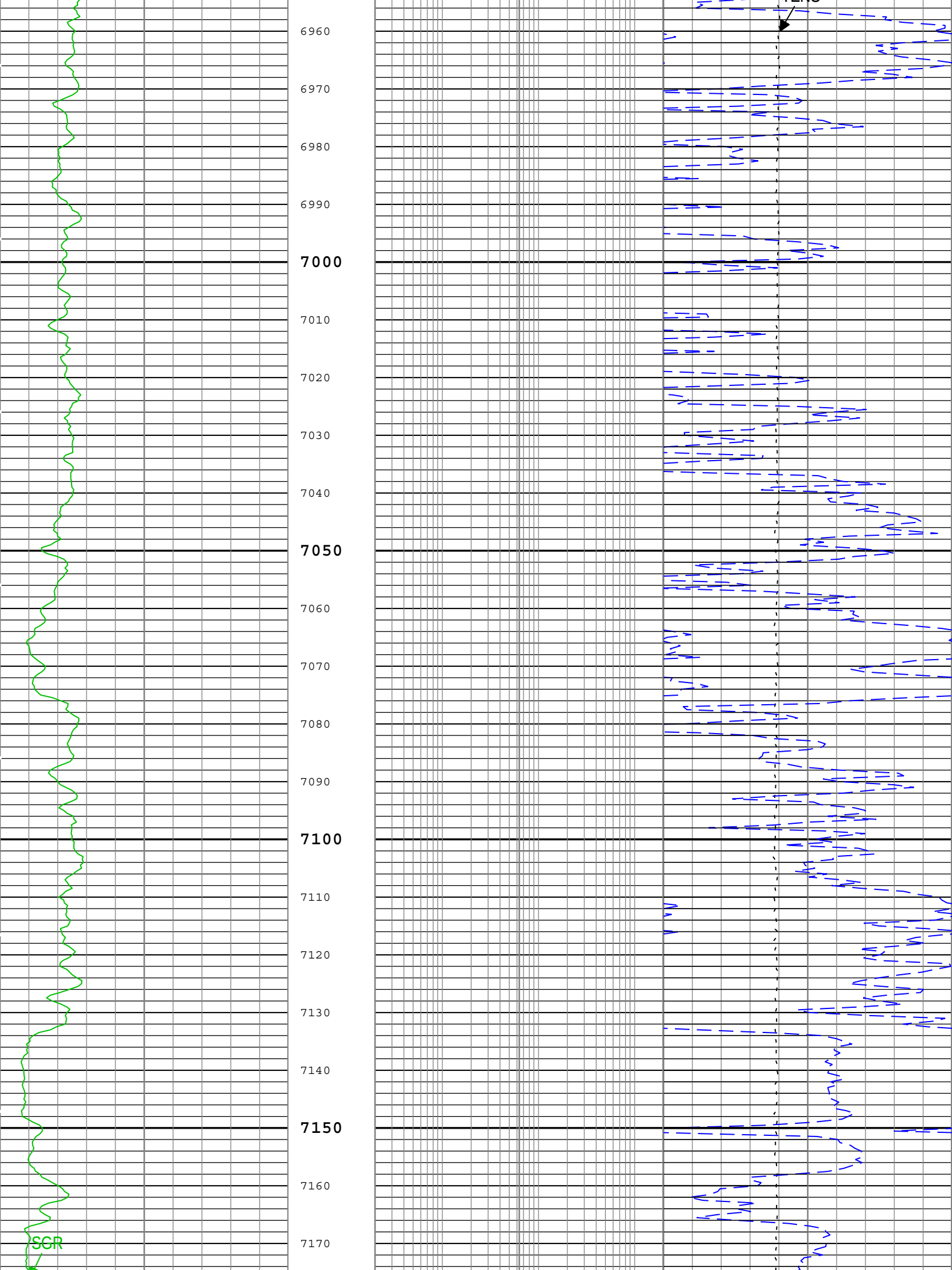
NPOR
TENS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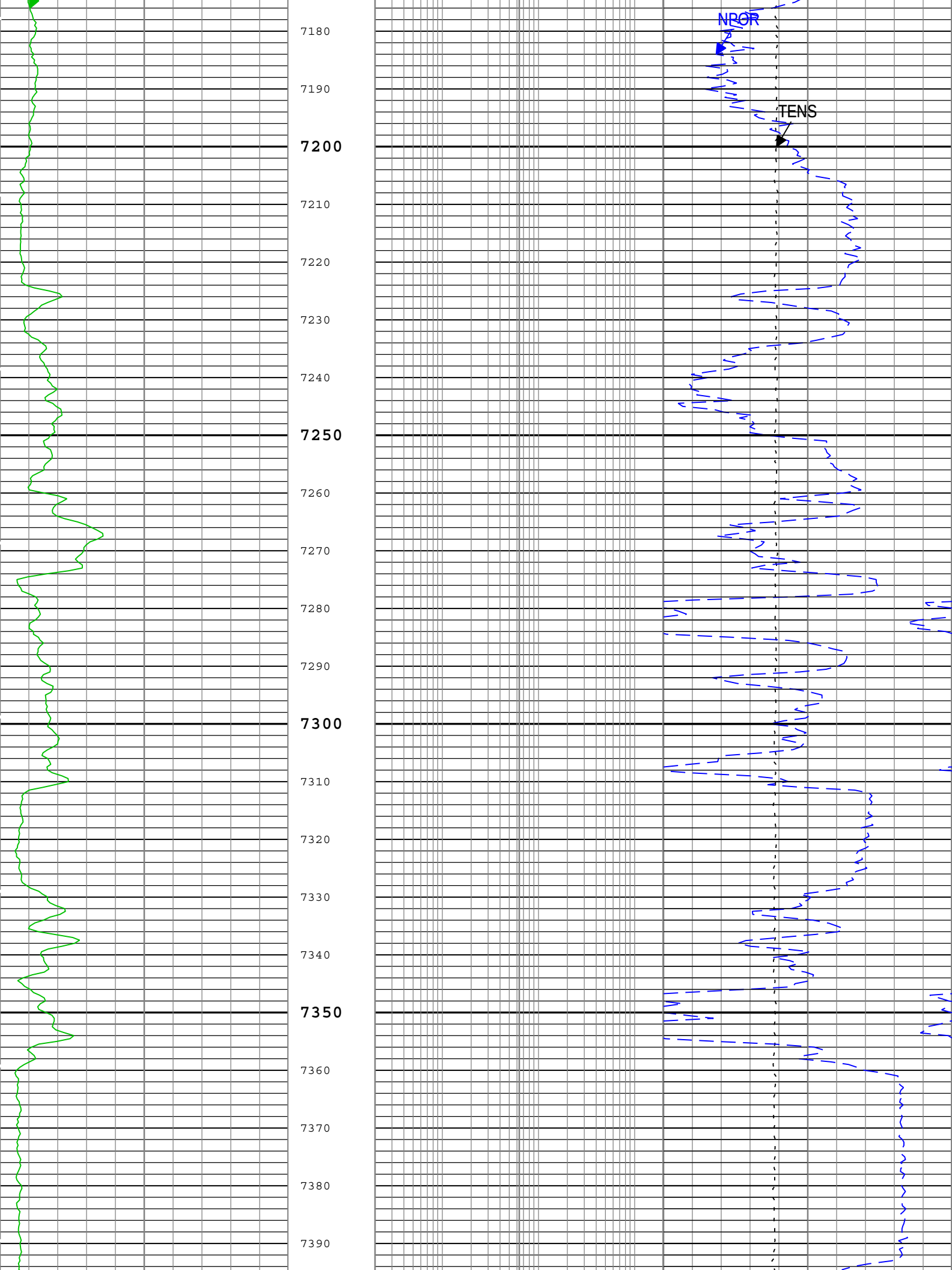
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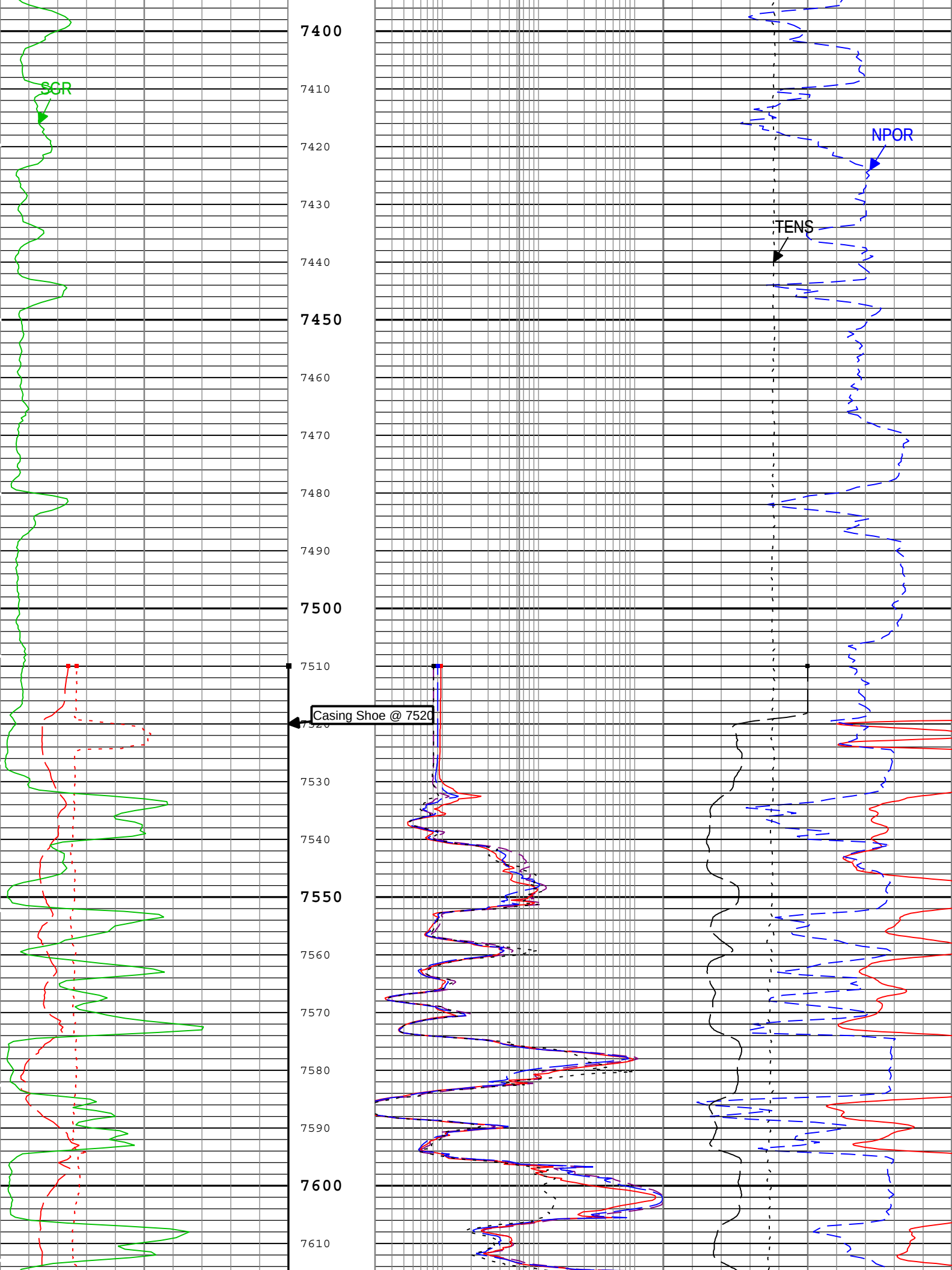
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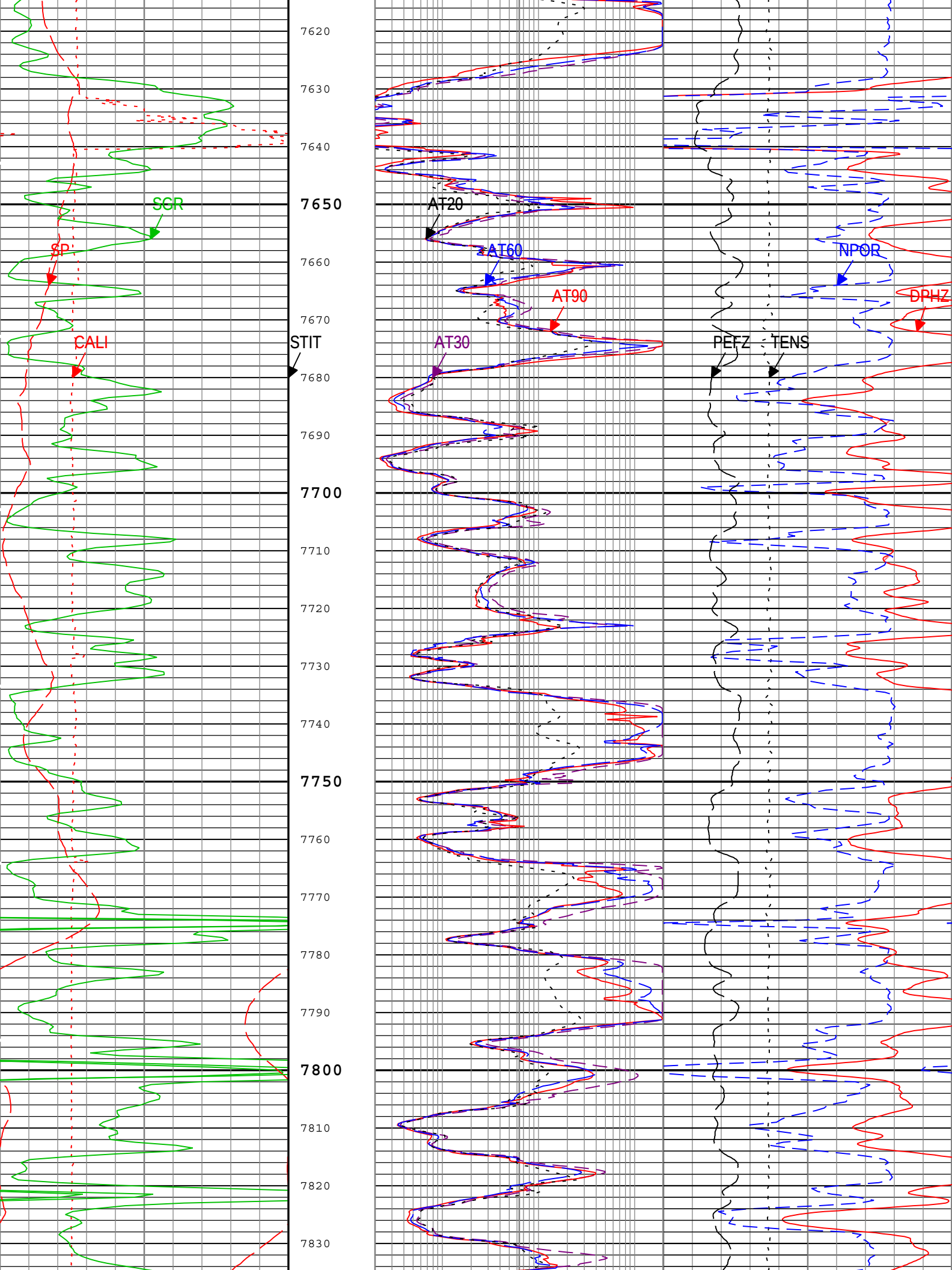
Casing Shoe @ 7520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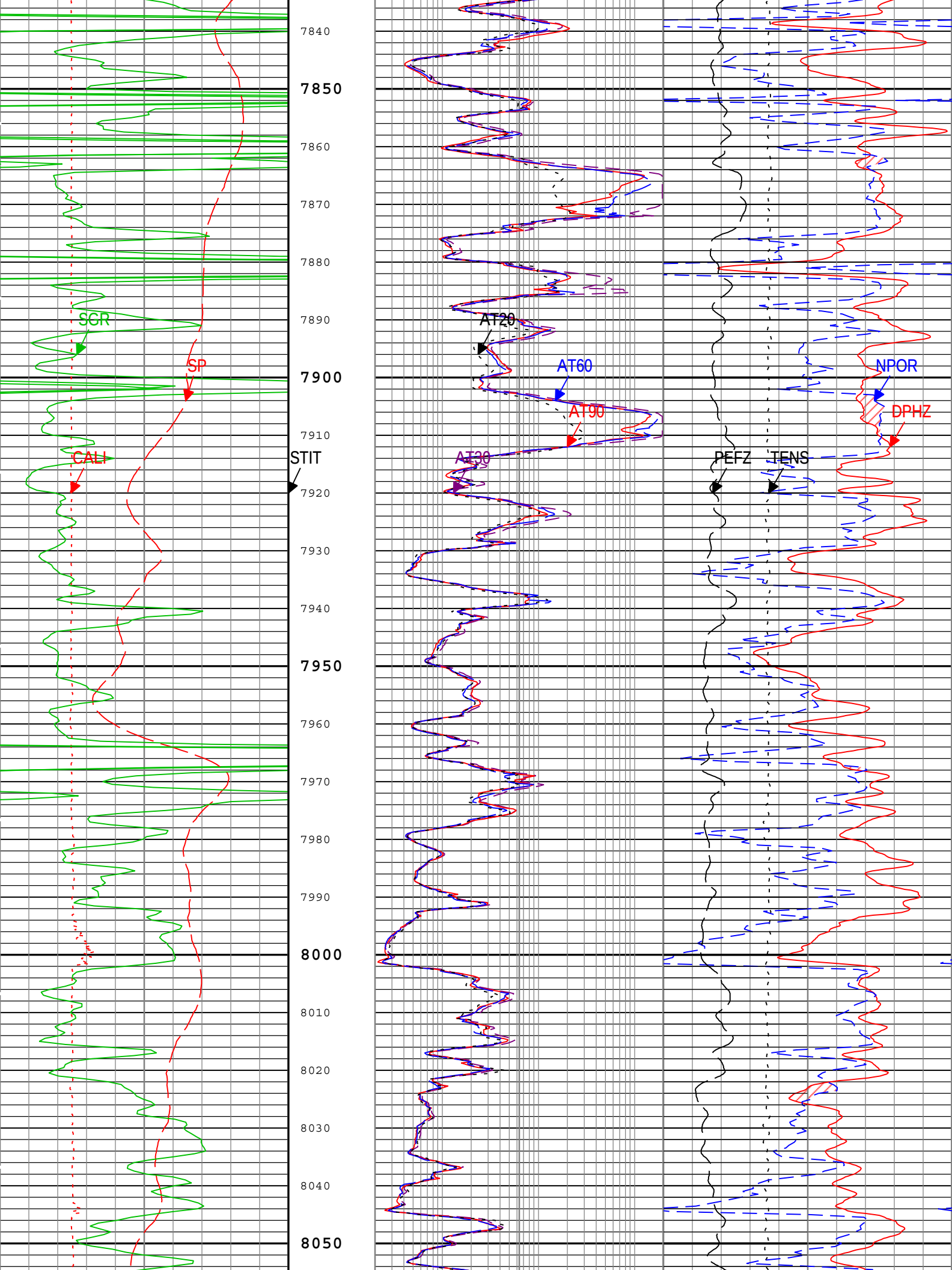
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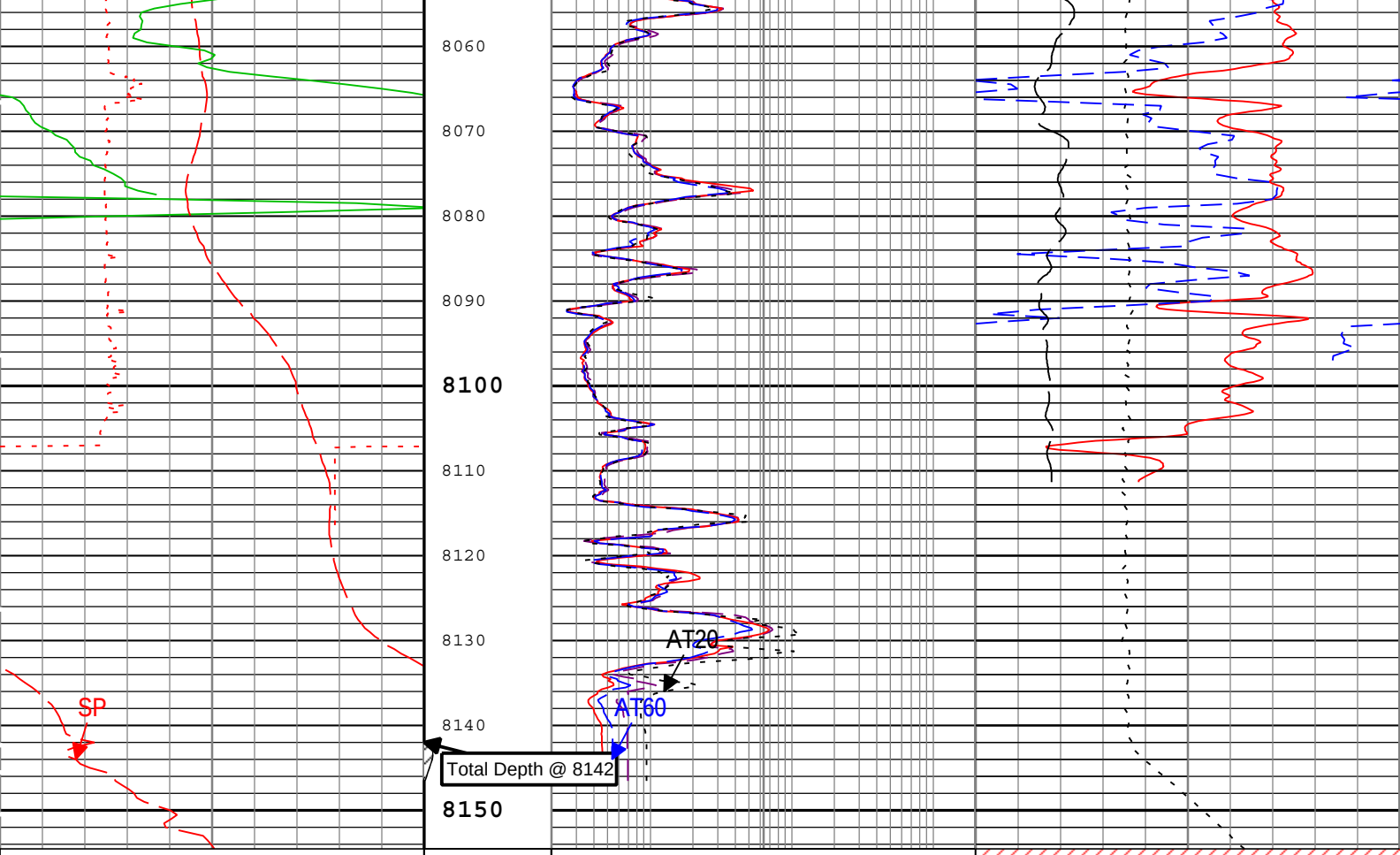


Caliper (CALI) HDRS-B
6 in 16

Spontaneous Potential (SP) ZAIT-F
-160 mV 40

Spectroscopy Gamma Ray (SGR) HNGS-BA
0 gAPI 150

Stuck Tool Indicator, Total (STIT)
0 ft 50

Array Induction Two Foot Resistivity A30 (AT30) ZAIT-F
2 ohm.m 2000

Array Induction Two Foot Resistivity A90 (AT90) ZAIT-F
2 ohm.m 2000

Array Induction Two Foot Resistivity A60 (AT60) ZAIT-F
2 ohm.m 2000

Array Induction Two Foot Resistivity A20 (AT20) ZAIT-F
2 ohm.m 2000

Gas Effect

NPOR Backup

Cable Tension (TENS)
5000 lbf 0

Standard Resolution Density Porosity (DPHZ) HDRS-B
0.3 ft3/ft3 -0.1

Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-B
0.3 m3/m3 -0.1

Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-B
0 10

TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 07-Jul-2012 02:06:47

Channel Processing Parameters

Parameter	Description	Tool	Value	Unit
ABHME	Array Induction Extended Borehole Correction Mode	ZAIT-F	Compute Standoff	
ABLM	Array Induction Basic Logs Mode	ZAIT-F	Normal	
ACDE	Array Induction Casing Detection Enable	ZAIT-F	Yes	
AOFFX	X Accelerometer Offset	GPIT-C	0	ft/s2
AOFFY	Y Accelerometer Offset	GPIT-C	0	ft/s2

AOFFZ	Z Accelerometer Offset	GPIT-C	0	ft/s2
AROT	Array Induction Rotation Selector	ZAIT-F	North	
ASTA	Array Induction Tool Standoff	ZAIT-F	1	in
BARI	Barite Mud Presence Flag	Borehole	No	
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BS	Bit Size	WLSESSION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	5527.92	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-B	0.2	in
CBLO	Casing Bottom (Logger)	WLSESSION	7520	ft
CDEN	Cement Density	HGNS-B	2	g/cm3
DBCC	Barite Constant Correction Flag	HNGS-BA	None	
DC_MODE	Depth Correction Mode	DepthCorrection	Real-time	
DFD	Drilling Fluid Density	Borehole	8.65	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	Chemical Gel	
DHC	Density Hole Correction	HDRS-B	Bit Size	
FD	Fluid Density	Borehole	1	g/cm3
FOFFX	X Magnetometer Offset	GPIT-C	0	mT
FOFFY	Y Magnetometer Offset	GPIT-C	0	mT
FOFFZ	Z Magnetometer Offset	GPIT-C	0	mT
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	AMF	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	CTEM	
HCRB	Apply Borehole Potassium Correction	HNGS-BA	None	
HEMA	Hematite Presence Flag	Borehole	No	
HSCO	Hole Size Correction Option	HGNS-B	Yes	
ICMO	Inclinometry Computation Mode	GPIT-C	Automatic Selection	
LOG_SPEED_RNG	Logging Speed Range	GPIT-C	Normal (600 ft/h - 3600 ft/h)	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.71	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	86	degF
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.68	ohm.m
SGRC	Standard Gamma Ray Correction Flag	HNGS-BA	Yes	
SPDR	SP Drift Per Foot	ZAIT-F	0	mV/ft
TD	Total Measured Depth	Borehole	8142	ft
USER_LOCB	User-supplied values for Magnetic Flux Density	WLSESSION	53959.12	nT
USER_MDEC	User-supplied values for Magnetic Declination	WLSESSION	8.36	deg
USER_MDIP	User-supplied values for Magnetic Dip Angle	WLSESSION	68.57	deg

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	6190	7523
BS	8.5	7523	8154.5

All depth are actual.

Tool Control Parameters

Parameter	Description	Tool	Value	Unit
ACCDATE	Date Accelerometer Coefficients Read from PROM	GPIT-C	41096.68	

HMCA_BRD_TYPE	HMCA Board Type	HGNS-B	0	
HRGD_BRD_TYPE	HRGD Board Type	HDRS-B	WITHOUT_HET	
MAGDATE	Date Magnetometer Coefficients Read from PROM	GPIT-C	41096.68	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLSESSION	1800	ft/h
STSO_HRDD	Temperature Source for the Density Algorithm	HDRS-B	Decaytime algorithm	
TEMS	Temperature Sensor Used	GPIT-C	Both	

Run 1: PEX-ECS-HNGS-ZAIT

5" Triple Combo

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift	Include Parallel Data
Run 1: PEX-ECS-HNGS-ZAIT	Log[4]:Up	Up	7809.51 ft	8163.53 ft	06-Jul-2012 5:30:12 PM	06-Jul-2012 5:43:09 PM	3.91 ft	
Run 1: PEX-ECS-HNGS-ZAIT	Log[6]:Up	Up	6166.60 ft	8154.70 ft	06-Jul-2012 5:48:20 PM	06-Jul-2012 6:58:29 PM	0.00 ft	

All depths are referenced to toolstring zero

Log

Run 1: PEX-ECS-HNGS-ZAIT: Log[6]:Up

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo RA) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 07-Jul-2012 02:06:51

TIME_1900 - Time Marked every 60.00 (s)

Main To Repeat
Repeat To Main
Standard Resolution Formation Photoelectric Factor (PEFZ) HDRS-B
0 10

Main To Repeat
Repeat To Main
Array Induction Two Foot Resistivity A90 (AT90) ZAIT-F
0.2 ohm.m 200

Main To Repeat
Repeat To Main
Cable Tension (TENS)
5000 lbf 0

Main To Repeat
Repeat To Main
Caliper (CALI) HDRS-B
6 in 16

Main To Repeat
Repeat To Main
Array Induction Two Foot Resistivity A30 (AT30) ZAIT-F
0.2 ohm.m 200

Main To Repeat
Repeat To Main
Standard Resolution Density Porosity (DPHZ) HDRS-B
0.5 ft3/ft3 0

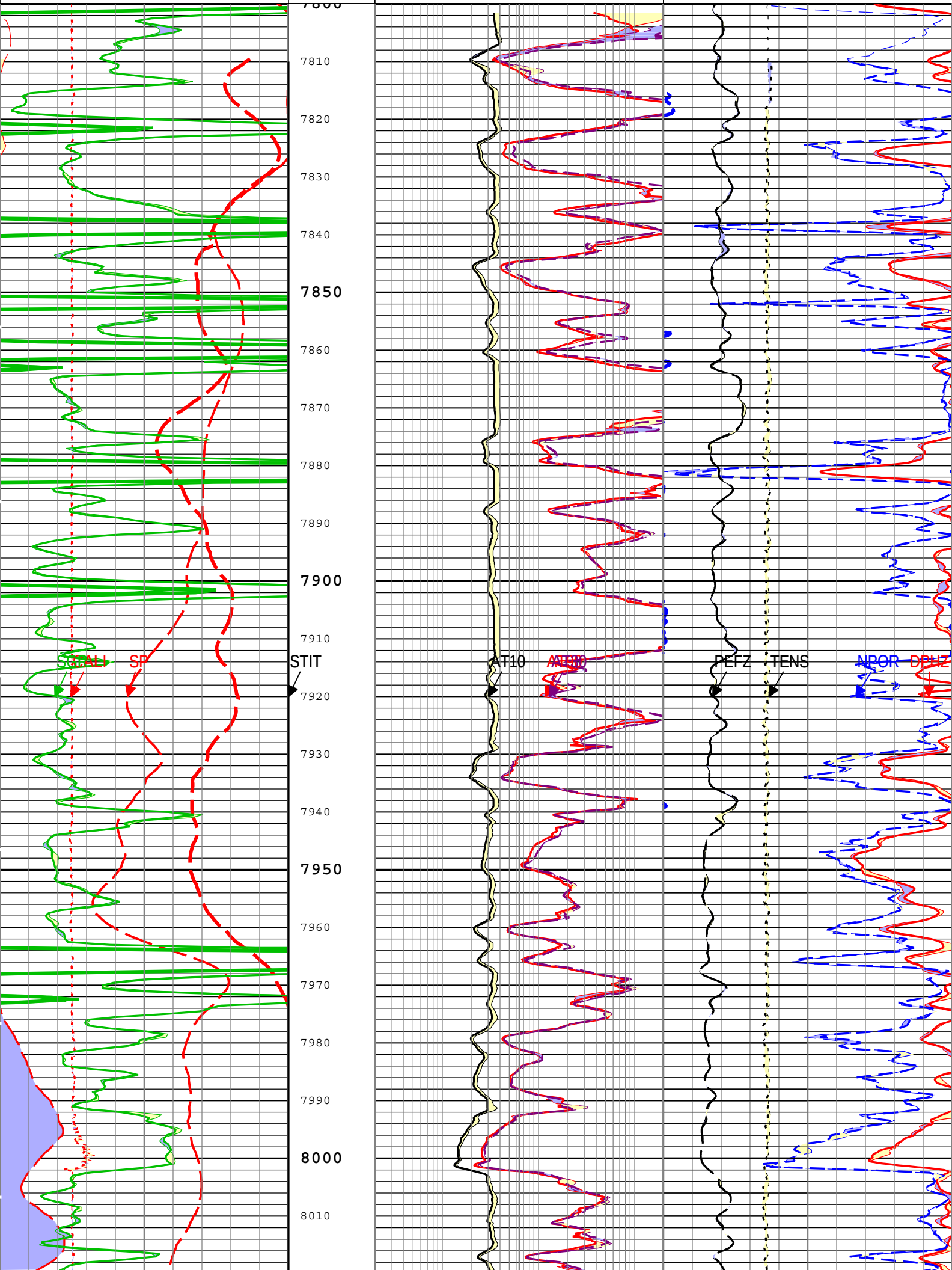
Main To Repeat
Repeat To Main
Spontaneous Potential (SP) ZAIT-F
-160 mV 40

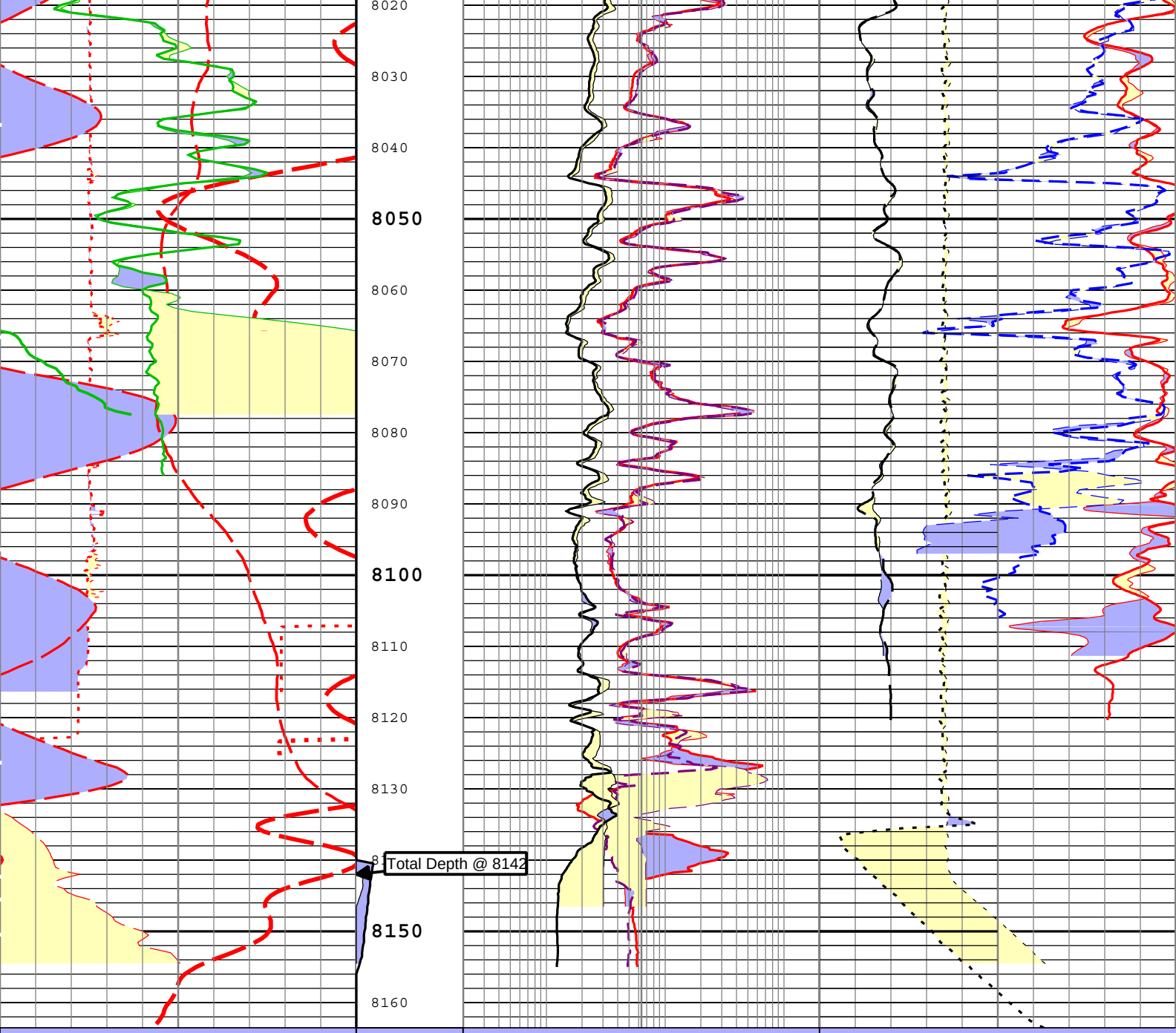
Main To Repeat
Repeat To Main
Stuck Tool Indicator, Total (STIT)
0 ft 50

Main To Repeat
Repeat To Main
Array Induction Two Foot Resistivity A10 (AT10) ZAIT-F
0.2 ohm.m 200

Main To Repeat
Repeat To Main
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-B
0.5 m3/m3 0

Main To Repeat
Repeat To Main
Spectroscopy Gamma Ray (SGR) HNGS-BA
0 gAPI 150


7800
7810
7820
7830
7840
7850
7860
7870
7880
7890
7900
7910
7920
7930
7940
7950
7960
7970
7980
7990
8000
8010
SGRALI
SP
STIT
AT10
AT90
PEFZ
TENS
NPOR
DPHZ



Main To Repeat

Repeat To Main

Caliper (CALI) HDRS-B

6 in 16

Main To Repeat

Repeat To Main

Spontaneous Potential (SP) ZAIT-F

-160 mV 40

Main To Repeat

Repeat To Main

Spectroscopy Gamma Ray (SGR) HNGS-BA

0 gAPI 150

Main To Repeat

Repeat To Main

Stuck Tool Indicator, Total (STIT)

0 ft 50

Main To Repeat

Repeat To Main

Array Induction Two Foot Resistivity A90 (AT90) ZAIT-F

0.2 ohm.m 200

Main To Repeat

Repeat To Main

Array Induction Two Foot Resistivity A30 (AT30) ZAIT-F

0.2 ohm.m 200

Main To Repeat

Repeat To Main

Array Induction Two Foot Resistivity A10 (AT10) ZAIT-F

Main To Repeat

Repeat To Main

Cable Tension (TENS)

5000 lbf 0

Main To Repeat

Repeat To Main

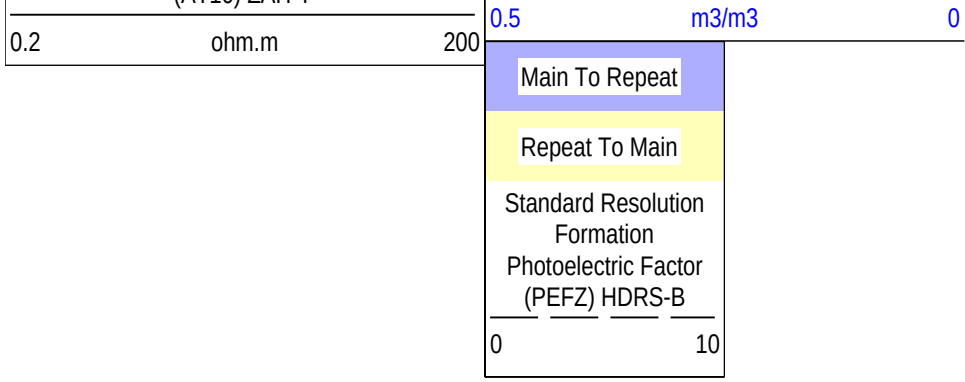
Standard Resolution Density Porosity (DPHZ) HDRS-B

0.5 ft3/ft3 0

Main To Repeat

Repeat To Main

Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-B



TIME_1900 - Time Marked every 60.00 (s)

Description: HGNS standard resolution porosities for Platform Express Format: Log (EMD 5in Triple Combo RA) Index Scale: 5 in per 100 ft Index Unit: ft
Index Type: Measured Depth Creation Date: 07-Jul-2012 02:06:51

Calibration Report

ZAIT-F (Array Induction Tool - ZF) Calibration - Run Run 1: PEX-ECS-HNGS-ZAIT

Primary Equipment :

Array Induction Sonde - Z AZIS 68

AIT Master Calibration - Test Loop Gain

Master (EEPROM): 06:37:02 23-Jun-2010

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Test Loop Gain - 0		Master	1.000	-----	0.995	-----
Test Loop Phase - 0	deg	Master	0	-----	-0.611	-----
Test Loop Gain - 1		Master	1.000	-----	0.996	-----
Test Loop Phase - 1	deg	Master	0	-----	-0.421	-----
Test Loop Gain - 2		Master	1.000	-----	0.994	-----
Test Loop Phase - 2	deg	Master	0	-----	-0.008	-----
Test Loop Gain - 3		Master	1.000	-----	1.060	-----
Test Loop Phase - 3	deg	Master	0	-----	-0.426	-----
Test Loop Gain - 4		Master	1.000	-----	1.066	-----
Test Loop Phase - 4	deg	Master	0	-----	0.562	-----
Test Loop Gain - 5		Master	1.000	-----	0.993	-----
Test Loop Phase - 5	deg	Master	0	-----	-0.126	-----
Test Loop Gain - 6		Master	1.000	-----	1.007	-----
Test Loop Phase - 6	deg	Master	0	-----	-0.127	-----
Test Loop Gain - 7		Master	1.000	-----	1.002	-----
Test Loop Phase - 7	deg	Master	0	-----	0.218	-----
Test Loop Gain - 8		Master	1.000	-----	0.996	-----
Test Loop Phase - 8	deg	Master	0	-----	-0.648	-----
Test Loop Gain - 9		Master	1.000	-----	0.953	-----
Test Loop Phase - 9	deg	Master	0	-----	0.366	-----
Test Loop Gain - 10		Master	1.000	-----	0.958	-----
Test Loop Phase - 10	deg	Master	0	-----	1.715	-----
Test Loop Gain - 11		Master	1.000	-----	1.017	-----
Test Loop Phase - 11	deg	Master	0	-----	-0.271	-----
Test Loop Gain - 12		Master	1.000	-----	0.991	-----
Test Loop Phase - 12	deg	Master	0	-----	0.262	-----
Test Loop Gain - 13		Master	1.000	-----	0.951	-----
Test Loop Phase - 13	deg	Master	0	-----	0.528	-----
Test Loop Gain - 14		Master	1.000	-----	1.013	-----
Test Loop Phase - 14	deg	Master	0	-----	0.184	-----
Test Loop Gain - 15		Master	1.000	-----	1.011	-----
Test Loop Phase - 15	deg	Master	0	-----	-1.394	-----
Test Loop Gain - 16		Master	1.000	-----	1.015	-----
Test Loop Phase - 16	deg	Master	0	-----	0.096	-----
Test Loop Gain - 17		Master	1.000	-----	1.000	-----
Test Loop Phase - 17	deg	Master	0	-----	-0.679	-----
Test Loop Gain - 18		Master	1.000	-----	0.943	-----
Test Loop Phase - 18	deg	Master	0	-----	0.145	-----
Test Loop Gain - 19		Master	1.000	-----	0.948	-----
Test Loop Phase - 19	deg	Master	0	-----	1.113	-----

Test Loop Gain - 20		Master	1.000	-----	1.016	-----		
Test Loop Phase - 20	deg	Master	0	-----	-0.166	-----		
Test Loop Gain - 21		Master	1.000	-----	0.976	-----		
Test Loop Phase - 21	deg	Master	0	-----	0.452	-----		
Test Loop Gain - 22		Master	1.000	-----	0.944	-----		
Test Loop Phase - 22	deg	Master	0	-----	0.622	-----		
Test Loop Gain - 23		Master	1.000	-----	1.011	-----		
Test Loop Phase - 23	deg	Master	0	-----	0.353	-----		
Test Loop Gain - 24		Master	1.000	-----	1.035	-----		
Test Loop Phase - 24	deg	Master	0	-----	-0.946	-----		
Test Loop Gain - 25		Master	1.000	-----	1.044	-----		
Test Loop Phase - 25	deg	Master	0	-----	-0.085	-----		
Test Loop Gain - 26		Master	1.000	-----	1.005	-----		
Test Loop Phase - 26	deg	Master	0	-----	-0.610	-----		
Test Loop Gain - 27		Master	1.000	-----	0.964	-----		
Test Loop Phase - 27	deg	Master	0	-----	1.133	-----		
Test Loop Gain - 28		Master	1.000	-----	0.952	-----		
Test Loop Phase - 28	deg	Master	0	-----	0.778	-----		
Test Loop Gain - 29		Master	1.000	-----	1.008	-----		
Test Loop Phase - 29	deg	Master	0	-----	0.838	-----		
Test Loop Gain - 30		Master	1.000	-----	0.986	-----		
Test Loop Phase - 30	deg	Master	0	-----	1.117	-----		
Test Loop Gain - 31		Master	1.000	-----	0.962	-----		
Test Loop Phase - 31	deg	Master	0	-----	1.398	-----		
Test Loop Gain - 32		Master	1.000	-----	1.009	-----		
Test Loop Phase - 32	deg	Master	0	-----	0.210	-----		
Test Loop Gain - 33		Master	1.000	-----	1.036	-----		
Test Loop Phase - 33	deg	Master	0	-----	1.389	-----		
Test Loop Gain - 34		Master	1.000	-----	1.041	-----		
Test Loop Phase - 34	deg	Master	0	-----	0.749	-----		
Test Loop Gain - 35		Master	1.000	-----	0.996	-----		
Test Loop Phase - 35	deg	Master	0	-----	-0.378	-----		
Test Loop Gain - 36		Master	1.000	-----	0.966	-----		
Test Loop Phase - 36	deg	Master	0	-----	0.048	-----		
Test Loop Gain - 37		Master	1.000	-----	0.960	-----		
Test Loop Phase - 37	deg	Master	0	-----	-0.205	-----		
Test Loop Gain - 38		Master	1.000	-----	1.004	-----		
Test Loop Phase - 38	deg	Master	0	-----	0.421	-----		
Test Loop Gain - 39		Master	1.000	-----	0.984	-----		
Test Loop Phase - 39	deg	Master	0	-----	0.288	-----		
Test Loop Gain - 40		Master	1.000	-----	0.960	-----		
Test Loop Phase - 40	deg	Master	0	-----	0.420	-----		
Test Loop Gain - 41		Master	1.000	-----	1.000	-----		
Test Loop Phase - 41	deg	Master	0	-----	0.362	-----		
Test Loop Gain - 42		Master	1.000	-----	1.037	-----		
Test Loop Phase - 42	deg	Master	0	-----	0.020	-----		
Test Loop Gain - 43		Master	1.000	-----	1.041	-----		
Test Loop Phase - 43	deg	Master	0	-----	-0.279	-----		
Test Loop Gain - 44		Master	1.000	-----	0.993	-----		
Test Loop Phase - 44	deg	Master	0	-----	-0.402	-----		
Test Loop Gain - 45		Master	1.000	-----	1.046	-----		
Test Loop Phase - 45	deg	Master	0	-----	0.127	-----		
Test Loop Gain - 46		Master	1.000	-----	1.042	-----		
Test Loop Phase - 46	deg	Master	0	-----	0.348	-----		
Test Loop Gain - 47		Master	1.000	-----	1.016	-----		
Test Loop Phase - 47	deg	Master	0	-----	-0.078	-----		
Test Loop Gain - 48		Master	1.000	-----	1.068	-----		
Test Loop Phase - 48	deg	Master	0	-----	0.378	-----		
Test Loop Gain - 49		Master	1.000	-----	1.041	-----		
Test Loop Phase - 49	deg	Master	0	-----	0.473	-----		
Test Loop Gain - 50		Master	1.000	-----	1.019	-----		
Test Loop Phase - 50	deg	Master	0	-----	0.156	-----		
Test Loop Gain - 51		Master	1.000	-----	1.024	-----		
Test Loop Phase - 51	deg	Master	0	-----	-1.995	-----		
Test Loop Gain - 52		Master	1.000	-----	1.031	-----		

Test Loop Phase - 52	deg	Master	0	-----	-0.216	-----		
Test Loop Gain - 53		Master	1.000	-----	1.006	-----		
Test Loop Phase - 53	deg	Master	0	-----	-0.396	-----		
Test Loop Gain - 54		Master	1.000	-----	1.038	-----		
Test Loop Phase - 54	deg	Master	0	-----	-0.654	-----		
Test Loop Gain - 55		Master	1.000	-----	1.039	-----		
Test Loop Phase - 55	deg	Master	0	-----	-0.464	-----		
Test Loop Gain - 56		Master	1.000	-----	1.013	-----		
Test Loop Phase - 56	deg	Master	0	-----	-0.853	-----		
Test Loop Gain - 57		Master	1.000	-----	1.057	-----		
Test Loop Phase - 57	deg	Master	0	-----	-0.256	-----		
Test Loop Gain - 58		Master	1.000	-----	1.033	-----		
Test Loop Phase - 58	deg	Master	0	-----	-0.206	-----		
Test Loop Gain - 59		Master	1.000	-----	1.013	-----		
Test Loop Phase - 59	deg	Master	0	-----	-0.488	-----		
Test Loop Gain - 60		Master	1.000	-----	1.022	-----		
Test Loop Phase - 60	deg	Master	0	-----	-1.974	-----		
Test Loop Gain - 61		Master	1.000	-----	1.029	-----		
Test Loop Phase - 61	deg	Master	0	-----	-1.037	-----		
Test Loop Gain - 62		Master	1.000	-----	1.009	-----		
Test Loop Phase - 62	deg	Master	0	-----	-1.280	-----		
Test Loop Gain - 63		Master	1.000	-----	1.042	-----		
Test Loop Phase - 63	deg	Master	0	-----	-0.043	-----		
Test Loop Gain - 64		Master	1.000	-----	1.024	-----		
Test Loop Phase - 64	deg	Master	0	-----	0.391	-----		
Test Loop Gain - 65		Master	1.000	-----	1.024	-----		
Test Loop Phase - 65	deg	Master	0	-----	0.479	-----		
Test Loop Gain - 66		Master	1.000	-----	1.081	-----		
Test Loop Phase - 66	deg	Master	0	-----	0.337	-----		
Test Loop Gain - 67		Master	1.000	-----	1.037	-----		
Test Loop Phase - 67	deg	Master	0	-----	0.238	-----		
Test Loop Gain - 68		Master	1.000	-----	1.017	-----		
Test Loop Phase - 68	deg	Master	0	-----	0.217	-----		
Test Loop Gain - 69		Master	1.000	-----	1.025	-----		
Test Loop Phase - 69	deg	Master	0	-----	0.114	-----		
Test Loop Gain - 70		Master	1.000	-----	1.024	-----		
Test Loop Phase - 70	deg	Master	0	-----	-0.206	-----		
Test Loop Gain - 71		Master	1.000	-----	1.010	-----		
Test Loop Phase - 71	deg	Master	0	-----	-0.270	-----		
Test Loop Gain - 72		Master	1.000	-----	1.021	-----		
Test Loop Phase - 72	deg	Master	0	-----	-0.841	-----		
Test Loop Gain - 73		Master	1.000	-----	1.002	-----		
Test Loop Phase - 73	deg	Master	0	-----	-0.649	-----		
Test Loop Gain - 74		Master	1.000	-----	1.023	-----		
Test Loop Phase - 74	deg	Master	0	-----	-0.536	-----		
Test Loop Gain - 75		Master	1.000	-----	1.057	-----		
Test Loop Phase - 75	deg	Master	0	-----	-0.421	-----		
Test Loop Gain - 76		Master	1.000	-----	1.016	-----		
Test Loop Phase - 76	deg	Master	0	-----	-0.406	-----		
Test Loop Gain - 77		Master	1.000	-----	1.012	-----		
Test Loop Phase - 77	deg	Master	0	-----	-0.401	-----		
Test Loop Gain - 78		Master	1.000	-----	1.011	-----		
Test Loop Phase - 78	deg	Master	0	-----	-0.936	-----		
Test Loop Gain - 79		Master	1.000	-----	1.012	-----		
Test Loop Phase - 79	deg	Master	0	-----	-1.070	-----		
Test Loop Gain - 80		Master	1.000	-----	1.014	-----		
Test Loop Phase - 80	deg	Master	0	-----	-1.082	-----		
Test Loop Gain - 81		Master	1.000	-----	1.016	-----		
Test Loop Phase - 81	deg	Master	0	-----	-0.251	-----		
Test Loop Gain - 82		Master	1.000	-----	1.009	-----		
Test Loop Phase - 82	deg	Master	0	-----	0.138	-----		
Test Loop Gain - 83		Master	1.000	-----	1.011	-----		
Test Loop Phase - 83	deg	Master	0	-----	0.168	-----		
Test Loop Gain - 84		Master	1.000	-----	1.035	-----		
Test Loop Phase - 84	deg	Master	0	-----	-0.056	-----		

Test Loop Gain - 84		Master	1.000	-----	1.000	-----	[redacted]	[redacted]
Test Loop Gain - 85		Master	1.000	-----	1.012	-----	[redacted]	[redacted]
Test Loop Phase - 85	deg	Master	0	-----	-0.113	-----	[redacted]	[redacted]
Test Loop Gain - 86		Master	1.000	-----	0.999	-----	[redacted]	[redacted]
Test Loop Phase - 86	deg	Master	0	-----	-0.154	-----	[redacted]	[redacted]
Test Loop Gain - 87		Master	1.000	-----	1.031	-----	[redacted]	[redacted]
Test Loop Phase - 87	deg	Master	0	-----	-0.168	-----	[redacted]	[redacted]
Test Loop Gain - 88		Master	1.000	-----	1.022	-----	[redacted]	[redacted]
Test Loop Phase - 88	deg	Master	0	-----	-0.317	-----	[redacted]	[redacted]
Test Loop Gain - 89		Master	1.000	-----	1.020	-----	[redacted]	[redacted]
Test Loop Phase - 89	deg	Master	0	-----	-0.578	-----	[redacted]	[redacted]
Test Loop Gain - 90		Master	1.000	-----	1.003	-----	[redacted]	[redacted]
Test Loop Phase - 90	deg	Master	0	-----	-0.794	-----	[redacted]	[redacted]
Test Loop Gain - 91		Master	1.000	-----	1.002	-----	[redacted]	[redacted]
Test Loop Phase - 91	deg	Master	0	-----	-0.618	-----	[redacted]	[redacted]
Test Loop Gain - 92		Master	1.000	-----	0.999	-----	[redacted]	[redacted]
Test Loop Phase - 92	deg	Master	0	-----	-0.590	-----	[redacted]	[redacted]
Test Loop Gain - 93		Master	1.000	-----	1.023	-----	[redacted]	[redacted]
Test Loop Phase - 93	deg	Master	0	-----	-0.434	-----	[redacted]	[redacted]
Test Loop Gain - 94		Master	1.000	-----	1.003	-----	[redacted]	[redacted]
Test Loop Phase - 94	deg	Master	0	-----	-0.322	-----	[redacted]	[redacted]
Test Loop Gain - 95		Master	1.000	-----	0.988	-----	[redacted]	[redacted]
Test Loop Phase - 95	deg	Master	0	-----	-0.488	-----	[redacted]	[redacted]
Test Loop Gain - 96		Master	1.000	-----	1.017	-----	[redacted]	[redacted]
Test Loop Phase - 96	deg	Master	0	-----	-0.634	-----	[redacted]	[redacted]
Test Loop Gain - 97		Master	1.000	-----	1.013	-----	[redacted]	[redacted]
Test Loop Phase - 97	deg	Master	0	-----	-0.688	-----	[redacted]	[redacted]
Test Loop Gain - 98		Master	1.000	-----	1.002	-----	[redacted]	[redacted]
Test Loop Phase - 98	deg	Master	0	-----	-1.271	-----	[redacted]	[redacted]
Test Loop Gain - 99		Master	1.000	-----	1.007	-----	[redacted]	[redacted]
Test Loop Phase - 99	deg	Master	0	-----	-0.353	-----	[redacted]	[redacted]
Test Loop Gain - 100		Master	1.000	-----	1.012	-----	[redacted]	[redacted]
Test Loop Phase - 100	deg	Master	0	-----	0.069	-----	[redacted]	[redacted]
Test Loop Gain - 101		Master	1.000	-----	0.984	-----	[redacted]	[redacted]
Test Loop Phase - 101	deg	Master	0	-----	-1.164	-----	[redacted]	[redacted]
Test Loop Gain - 102		Master	1.000	-----	0.999	-----	[redacted]	[redacted]
Test Loop Phase - 102	deg	Master	0	-----	-0.012	-----	[redacted]	[redacted]
Test Loop Gain - 103		Master	1.000	-----	1.006	-----	[redacted]	[redacted]
Test Loop Phase - 103	deg	Master	0	-----	-0.229	-----	[redacted]	[redacted]
Test Loop Gain - 104		Master	1.000	-----	0.960	-----	[redacted]	[redacted]
Test Loop Phase - 104	deg	Master	0	-----	-0.002	-----	[redacted]	[redacted]
Test Loop Gain - 105		Master	1.000	-----	0.995	-----	[redacted]	[redacted]
Test Loop Phase - 105	deg	Master	0	-----	-0.905	-----	[redacted]	[redacted]
Test Loop Gain - 106		Master	1.000	-----	0.992	-----	[redacted]	[redacted]
Test Loop Phase - 106	deg	Master	0	-----	-0.864	-----	[redacted]	[redacted]
Test Loop Gain - 107		Master	1.000	-----	1.002	-----	[redacted]	[redacted]
Test Loop Phase - 107	deg	Master	0	-----	-0.571	-----	[redacted]	[redacted]
Test Loop Gain - 108		Master	1.000	-----	0.990	-----	[redacted]	[redacted]
Test Loop Phase - 108	deg	Master	0	-----	-0.918	-----	[redacted]	[redacted]
Test Loop Gain - 109		Master	1.000	-----	0.998	-----	[redacted]	[redacted]
Test Loop Phase - 109	deg	Master	0	-----	-0.953	-----	[redacted]	[redacted]
Test Loop Gain - 110		Master	1.000	-----	0.900	-----	[redacted]	[redacted]
Test Loop Phase - 110	deg	Master	0	-----	-1.317	-----	[redacted]	[redacted]
Test Loop Gain - 111		Master	1.000	-----	0.981	-----	[redacted]	[redacted]
Test Loop Phase - 111	deg	Master	0	-----	-0.637	-----	[redacted]	[redacted]
Test Loop Gain - 112		Master	1.000	-----	0.992	-----	[redacted]	[redacted]
Test Loop Phase - 112	deg	Master	0	-----	-0.485	-----	[redacted]	[redacted]
Test Loop Gain - 113		Master	1.000	-----	0.884	-----	[redacted]	[redacted]
Test Loop Phase - 113	deg	Master	0	-----	-0.685	-----	[redacted]	[redacted]
Test Loop Gain - 114		Master	1.000	-----	0.960	-----	[redacted]	[redacted]
Test Loop Phase - 114	deg	Master	0	-----	-1.565	-----	[redacted]	[redacted]
Test Loop Gain - 115		Master	1.000	-----	0.962	-----	[redacted]	[redacted]
Test Loop Phase - 115	deg	Master	0	-----	-1.473	-----	[redacted]	[redacted]
Test Loop Gain - 116		Master	1.000	-----	0.998	-----	[redacted]	[redacted]
Test Loop Phase - 116	deg	Master	0	-----	-0.957	-----	[redacted]	[redacted]

AIT Master Calibration - Sonde Error Correction

Master (EEPROM): 06:37:02 23-Jun-2010

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Sonde Error Correction Real - 0	mS/m	Master	-----	-3044.000	-188.160	3195.200
Sonde Error Correction Quad - 0		Master	-----	-41743.000	-8829.070	54690.000
Sonde Error Correction Real - 1	mS/m	Master	-----	-2784.300	358.034	3454.900
Sonde Error Correction Quad - 1		Master	-----	-42702.000	3288.754	53731.000
Sonde Error Correction Real - 2	mS/m	Master	-----	-2540.100	-1348.958	-689.300
Sonde Error Correction Quad - 2		Master	-----	-6035.600	1384.852	6479.000
Sonde Error Correction Real - 3	mS/m	Master	-----	-576.600	-45.888	461.600
Sonde Error Correction Quad - 3		Master	-----	-10446.000	-728.573	12815.000
Sonde Error Correction Real - 4	mS/m	Master	-----	-435.000	110.189	603.200
Sonde Error Correction Quad - 4		Master	-----	-10362.000	-1011.446	12898.000
Sonde Error Correction Real - 5	mS/m	Master	-----	154.700	237.079	539.300
Sonde Error Correction Quad - 5		Master	-----	-2452.800	341.706	2492.600
Sonde Error Correction Real - 6	mS/m	Master	-----	-144.900	19.060	139.500
Sonde Error Correction Quad - 6		Master	-----	-3818.800	-704.445	4570.000
Sonde Error Correction Real - 7	mS/m	Master	-----	-107.100	38.541	177.300
Sonde Error Correction Quad - 7		Master	-----	-4216.800	385.693	4172.000
Sonde Error Correction Real - 8	mS/m	Master	-----	-15.700	16.549	143.100
Sonde Error Correction Quad - 8		Master	-----	-876.000	36.684	876.000
Sonde Error Correction Real - 9	mS/m	Master	-----	-625.000	-344.227	29.600
Sonde Error Correction Quad - 9		Master	-----	-1075.900	-295.112	1715.700
Sonde Error Correction Real - 10	mS/m	Master	-----	-840.600	150.669	927.600
Sonde Error Correction Quad - 10		Master	-----	-26622.000	-2656.319	24421.000
Sonde Error Correction Real - 11	mS/m	Master	-----	-391.200	20.334	328.600
Sonde Error Correction Quad - 11		Master	-----	-8762.100	1638.411	10838.000
Sonde Error Correction Real - 12	mS/m	Master	-----	-906.900	-102.824	861.300
Sonde Error Correction Quad - 12		Master	-----	-24117.000	3230.405	26926.000
Sonde Error Correction Real - 13	mS/m	Master	-----	-621.100	-366.111	46.700
Sonde Error Correction Quad - 13		Master	-----	-1516.300	19.398	1275.300
Sonde Error Correction Real - 14	mS/m	Master	-----	-320.800	68.047	399.000
Sonde Error Correction Quad - 14		Master	-----	-9361.400	-1323.918	10238.000
Sonde Error Correction Real - 15	mS/m	Master	-----	-291.100	19.663	282.500
Sonde Error Correction Quad - 15		Master	-----	-14782.000	-478.340	16603.000
Sonde Error Correction Real - 16	mS/m	Master	-----	-224.100	113.340	349.500
Sonde Error Correction Quad - 16		Master	-----	-16039.000	-4533.734	15345.000
Sonde Error Correction Real - 17	mS/m	Master	-----	4.000	52.508	188.800
Sonde Error Correction Quad - 17		Master	-----	-993.300	-21.615	1024.100
Sonde Error Correction Real - 18	mS/m	Master	-----	-291.800	-139.652	107.200
Sonde Error Correction Quad - 18		Master	-----	-568.300	-222.163	754.900
Sonde Error Correction Real - 19	mS/m	Master	-----	-293.400	50.721	328.600
Sonde Error Correction Quad - 19		Master	-----	-13104.000	-1305.320	12009.000
Sonde Error Correction Real - 20	mS/m	Master	-----	-132.100	-1.923	113.900
Sonde Error Correction Quad - 20		Master	-----	-4369.900	823.145	5400.100
Sonde Error Correction Real - 21	mS/m	Master	-----	-321.200	-37.377	300.800
Sonde Error Correction Quad - 21		Master	-----	-11856.000	1592.090	13257.000
Sonde Error Correction Real - 22	mS/m	Master	-----	-293.700	-146.991	125.900
Sonde Error Correction Quad - 22		Master	-----	-785.500	-66.595	537.700
Sonde Error Correction Real - 23	mS/m	Master	-----	-111.700	14.883	134.300
Sonde Error Correction Quad - 23		Master	-----	-4661.000	-659.636	5109.000
Sonde Error Correction Real - 24	mS/m	Master	-----	-172.200	0.264	213.000
Sonde Error Correction Quad - 24		Master	-----	-7333.000	-242.773	8225.000
Sonde Error Correction Real - 25	mS/m	Master	-----	-164.000	44.391	221.200
Sonde Error Correction Quad - 25		Master	-----	-7958.700	-2258.744	7599.300
Sonde Error Correction Real - 26	mS/m	Master	-----	-0.200	19.374	56.200
Sonde Error Correction Quad - 26		Master	-----	-504.600	-59.253	495.000
Sonde Error Correction Real - 27	mS/m	Master	-----	-161.100	-2.408	56.900
Sonde Error Correction Quad - 27		Master	-----	-1576.400	159.409	1507.200
Sonde Error Correction Real - 28	mS/m	Master	-----	-292.600	-111.755	227.600
Sonde Error Correction Quad - 28		Master	-----	-8217.100	2869.172	11574.000
Sonde Error Correction Real - 29	mS/m	Master	-----	-131.500	8.343	123.500
Sonde Error Correction Quad - 29		Master	-----	-3246.500	342.037	3795.500
Sonde Error Correction Real - 30	mS/m	Master	-----	-208.400	156.095	311.800
Sonde Error Correction Quad - 30		Master	-----	-12227.000	-3687.155	7564.000

Sonde Error Correction Quad - 30		Master	-----	-12227.000	-3687.155	7364.000
Sonde Error Correction Real - 31	mS/m	Master	-----	-171.600	-26.536	46.400
Sonde Error Correction Quad - 31		Master	-----	-1328.700	442.860	1754.900
Sonde Error Correction Real - 32	mS/m	Master	-----	-100.600	34.921	154.400
Sonde Error Correction Quad - 32		Master	-----	-3615.500	115.494	3426.500
Sonde Error Correction Real - 33	mS/m	Master	-----	-193.200	-62.487	147.800
Sonde Error Correction Quad - 33		Master	-----	-6226.400	973.116	7636.000
Sonde Error Correction Real - 34	mS/m	Master	-----	-157.800	-0.143	183.200
Sonde Error Correction Quad - 34		Master	-----	-7656.800	315.701	6205.600
Sonde Error Correction Real - 35	mS/m	Master	-----	56.800	121.938	130.400
Sonde Error Correction Quad - 35		Master	-----	-637.400	-9.806	398.600
Sonde Error Correction Real - 36	mS/m	Master	-----	-108.200	-26.562	14.800
Sonde Error Correction Quad - 36		Master	-----	-905.100	-21.824	644.300
Sonde Error Correction Real - 37	mS/m	Master	-----	-111.900	-18.760	97.300
Sonde Error Correction Quad - 37		Master	-----	-4104.500	1445.522	5778.100
Sonde Error Correction Real - 38	mS/m	Master	-----	-33.700	4.539	40.300
Sonde Error Correction Quad - 38		Master	-----	-1622.800	168.874	1898.200
Sonde Error Correction Real - 39	mS/m	Master	-----	-90.400	34.908	118.800
Sonde Error Correction Quad - 39		Master	-----	-6100.400	-1843.428	3782.200
Sonde Error Correction Real - 40	mS/m	Master	-----	-119.700	-35.560	3.300
Sonde Error Correction Quad - 40		Master	-----	-795.700	105.783	753.700
Sonde Error Correction Real - 41	mS/m	Master	-----	-29.900	9.443	44.100
Sonde Error Correction Quad - 41		Master	-----	-1804.000	65.400	1717.000
Sonde Error Correction Real - 42	mS/m	Master	-----	-147.500	-16.746	124.700
Sonde Error Correction Quad - 42		Master	-----	-3148.800	474.769	3840.600
Sonde Error Correction Real - 43	mS/m	Master	-----	-146.700	2.007	125.500
Sonde Error Correction Quad - 43		Master	-----	-3857.700	160.967	3131.700
Sonde Error Correction Real - 44	mS/m	Master	-----	34.000	51.245	58.800
Sonde Error Correction Quad - 44		Master	-----	-276.400	64.836	234.200
Sonde Error Correction Real - 45	mS/m	Master	-----	-89.200	-23.172	-10.400
Sonde Error Correction Quad - 45		Master	-----	-500.900	57.839	759.900
Sonde Error Correction Real - 46	mS/m	Master	-----	-206.000	53.370	225.000
Sonde Error Correction Quad - 46		Master	-----	-9211.400	-1582.387	8343.400
Sonde Error Correction Real - 47	mS/m	Master	-----	-78.500	-0.468	65.900
Sonde Error Correction Quad - 47		Master	-----	-1552.200	743.178	2219.800
Sonde Error Correction Real - 48	mS/m	Master	-----	-225.100	-57.506	205.900
Sonde Error Correction Quad - 48		Master	-----	-8346.300	1973.693	9208.500
Sonde Error Correction Real - 49	mS/m	Master	-----	-85.100	-33.443	-6.300
Sonde Error Correction Quad - 49		Master	-----	-609.400	136.846	651.400
Sonde Error Correction Real - 50	mS/m	Master	-----	-59.400	17.402	85.000
Sonde Error Correction Quad - 50		Master	-----	-2078.900	-433.903	1693.100
Sonde Error Correction Real - 51	mS/m	Master	-----	-67.500	25.108	59.900
Sonde Error Correction Quad - 51		Master	-----	-3043.500	469.384	3464.500
Sonde Error Correction Real - 52	mS/m	Master	-----	-47.300	17.053	80.100
Sonde Error Correction Quad - 52		Master	-----	-3626.500	-649.056	2881.500
Sonde Error Correction Real - 53	mS/m	Master	-----	19.800	63.264	55.800
Sonde Error Correction Quad - 53		Master	-----	-193.400	32.707	166.800
Sonde Error Correction Real - 54	mS/m	Master	-----	-107.200	-57.754	-37.600
Sonde Error Correction Quad - 54		Master	-----	-309.400	-22.699	334.800
Sonde Error Correction Real - 55	mS/m	Master	-----	-24.200	10.583	28.000
Sonde Error Correction Quad - 55		Master	-----	-4607.300	-783.353	4170.300
Sonde Error Correction Real - 56	mS/m	Master	-----	-26.100	2.458	21.100
Sonde Error Correction Quad - 56		Master	-----	-783.500	371.206	1115.300
Sonde Error Correction Real - 57	mS/m	Master	-----	-25.600	-7.643	26.600
Sonde Error Correction Quad - 57		Master	-----	-4171.800	976.720	4605.800
Sonde Error Correction Real - 58	mS/m	Master	-----	-105.000	-65.796	-35.400
Sonde Error Correction Quad - 58		Master	-----	-426.900	28.577	426.900
Sonde Error Correction Real - 59	mS/m	Master	-----	-21.500	-0.029	25.700
Sonde Error Correction Quad - 59		Master	-----	-1042.500	-217.704	856.300
Sonde Error Correction Real - 60	mS/m	Master	-----	-17.500	11.809	15.300
Sonde Error Correction Quad - 60		Master	-----	-1535.300	231.834	1734.100
Sonde Error Correction Real - 61	mS/m	Master	-----	-12.400	5.287	20.400
Sonde Error Correction Quad - 61		Master	-----	-1818.400	-324.407	1451.000
Sonde Error Correction Real - 62	mS/m	Master	-----	13.200	36.824	34.400
Sonde Error Correction Quad - 62		Master	-----	-89.000	11.702	84.600

Sonde Error Correction Real - 63	mS/m	Master	-----	-58.900	-22.094	-9.500
Sonde Error Correction Quad - 63		Master	-----	-149.400	214.939	602.400
Sonde Error Correction Real - 64	mS/m	Master	-----	-149.700	25.959	131.500
Sonde Error Correction Quad - 64		Master	-----	-5963.500	-783.770	6570.900
Sonde Error Correction Real - 65	mS/m	Master	-----	-36.900	0.225	28.300
Sonde Error Correction Quad - 65		Master	-----	-402.300	129.889	752.900
Sonde Error Correction Real - 66	mS/m	Master	-----	-132.800	-21.075	148.400
Sonde Error Correction Quad - 66		Master	-----	-6540.000	775.764	5994.400
Sonde Error Correction Real - 67	mS/m	Master	-----	-56.500	-20.312	-7.100
Sonde Error Correction Quad - 67		Master	-----	-179.700	216.808	572.100
Sonde Error Correction Real - 68	mS/m	Master	-----	-26.600	6.396	38.600
Sonde Error Correction Quad - 68		Master	-----	-605.300	-36.417	549.900
Sonde Error Correction Real - 69	mS/m	Master	-----	-22.800	0.359	25.600
Sonde Error Correction Quad - 69		Master	-----	-965.800	93.599	1728.200
Sonde Error Correction Real - 70	mS/m	Master	-----	-16.300	5.502	32.100
Sonde Error Correction Quad - 70		Master	-----	-1496.400	11.731	1197.600
Sonde Error Correction Real - 71	mS/m	Master	-----	9.000	23.275	22.200
Sonde Error Correction Quad - 71		Master	-----	-57.700	12.652	88.100
Sonde Error Correction Real - 72	mS/m	Master	-----	-58.600	-32.182	-18.600
Sonde Error Correction Quad - 72		Master	-----	-161.500	40.177	223.300
Sonde Error Correction Real - 73	mS/m	Master	-----	-17.600	4.248	17.400
Sonde Error Correction Quad - 73		Master	-----	-2942.300	-383.231	3245.700
Sonde Error Correction Real - 74	mS/m	Master	-----	-11.000	-0.274	7.200
Sonde Error Correction Quad - 74		Master	-----	-201.600	64.003	375.400
Sonde Error Correction Real - 75	mS/m	Master	-----	-16.000	-1.594	19.000
Sonde Error Correction Quad - 75		Master	-----	-3230.500	381.714	2957.500
Sonde Error Correction Real - 76	mS/m	Master	-----	-56.900	-29.945	-16.900
Sonde Error Correction Quad - 76		Master	-----	-176.300	41.535	208.500
Sonde Error Correction Real - 77	mS/m	Master	-----	-8.500	-0.726	9.700
Sonde Error Correction Quad - 77		Master	-----	-300.400	-18.544	276.600
Sonde Error Correction Real - 78	mS/m	Master	-----	-6.600	2.121	11.400
Sonde Error Correction Quad - 78		Master	-----	-484.400	42.594	858.600
Sonde Error Correction Real - 79	mS/m	Master	-----	-7.000	2.556	11.000
Sonde Error Correction Quad - 79		Master	-----	-745.000	6.326	598.000
Sonde Error Correction Real - 80	mS/m	Master	-----	8.500	15.745	17.500
Sonde Error Correction Quad - 80		Master	-----	-59.500	5.774	59.500
Sonde Error Correction Real - 81	mS/m	Master	-----	-84.000	-49.301	-17.400
Sonde Error Correction Quad - 81		Master	-----	4.200	232.479	474.000
Sonde Error Correction Real - 82	mS/m	Master	-----	-54.300	-6.741	68.900
Sonde Error Correction Quad - 82		Master	-----	-2508.400	208.430	2005.000
Sonde Error Correction Real - 83	mS/m	Master	-----	-27.800	-2.039	22.800
Sonde Error Correction Quad - 83		Master	-----	-304.100	104.468	484.300
Sonde Error Correction Real - 84	mS/m	Master	-----	-66.800	7.840	56.400
Sonde Error Correction Quad - 84		Master	-----	-2013.700	-293.911	2499.700
Sonde Error Correction Real - 85	mS/m	Master	-----	-82.900	-47.962	-16.300
Sonde Error Correction Quad - 85		Master	-----	-14.200	176.825	455.600
Sonde Error Correction Real - 86	mS/m	Master	-----	-21.900	0.258	28.700
Sonde Error Correction Quad - 86		Master	-----	-388.600	78.899	399.800
Sonde Error Correction Real - 87	mS/m	Master	-----	-15.700	3.667	21.300
Sonde Error Correction Quad - 87		Master	-----	-494.900	21.375	680.100
Sonde Error Correction Real - 88	mS/m	Master	-----	-13.100	3.483	23.900
Sonde Error Correction Quad - 88		Master	-----	-611.600	40.952	563.400
Sonde Error Correction Real - 89	mS/m	Master	-----	0.100	9.249	16.100
Sonde Error Correction Quad - 89		Master	-----	-122.500	151.710	260.500
Sonde Error Correction Real - 90	mS/m	Master	-----	-75.800	-49.449	-22.000
Sonde Error Correction Quad - 90		Master	-----	-92.000	60.054	171.800
Sonde Error Correction Real - 91	mS/m	Master	-----	-7.300	-0.430	8.700
Sonde Error Correction Quad - 91		Master	-----	-1275.800	110.038	1021.400
Sonde Error Correction Real - 92	mS/m	Master	-----	-8.100	-1.411	3.300
Sonde Error Correction Quad - 92		Master	-----	-156.600	53.008	248.800
Sonde Error Correction Real - 93	mS/m	Master	-----	-7.200	2.529	8.800
Sonde Error Correction Quad - 93		Master	-----	-1026.100	-151.181	1271.100
Sonde Error Correction Real - 94	mS/m	Master	-----	-74.700	-49.523	-20.900
Sonde Error Correction Quad - 94		Master	-----	-72.200	33.914	164.600
Sonde Error Correction Real - 95	mS/m	Master	-----	-6.000	-1.035	5.400

Sonde Error Correction Quad - 95		Master	-----	-198.300	39.443	207.100
Sonde Error Correction Real - 96	mS/m	Master	-----	-5.300	1.768	8.900
Sonde Error Correction Quad - 96		Master	-----	-252.700	10.264	339.500
Sonde Error Correction Real - 97	mS/m	Master	-----	-5.400	1.712	8.800
Sonde Error Correction Quad - 97		Master	-----	-307.100	19.795	285.100
Sonde Error Correction Real - 98	mS/m	Master	-----	7.400	15.321	16.600
Sonde Error Correction Quad - 98		Master	-----	-112.700	9.652	94.100
Sonde Error Correction Real - 99	mS/m	Master	-----	-119.500	-70.699	-29.300
Sonde Error Correction Quad - 99		Master	-----	-341.800	26.964	493.200
Sonde Error Correction Real - 100	mS/m	Master	-----	-25.600	7.941	25.800
Sonde Error Correction Quad - 100		Master	-----	-881.300	-269.211	963.500
Sonde Error Correction Real - 101	mS/m	Master	-----	-27.700	0.542	27.100
Sonde Error Correction Quad - 101		Master	-----	-141.100	28.286	186.100
Sonde Error Correction Real - 102	mS/m	Master	-----	-23.800	-2.882	27.600
Sonde Error Correction Quad - 102		Master	-----	-991.900	214.799	852.900
Sonde Error Correction Real - 103	mS/m	Master	-----	-119.700	-68.563	-29.500
Sonde Error Correction Quad - 103		Master	-----	-344.700	2.823	490.300
Sonde Error Correction Real - 104	mS/m	Master	-----	-24.500	1.638	30.300
Sonde Error Correction Quad - 104		Master	-----	-156.800	-54.334	170.400
Sonde Error Correction Real - 105	mS/m	Master	-----	-8.700	4.952	23.900
Sonde Error Correction Quad - 105		Master	-----	-327.100	-9.987	326.300
Sonde Error Correction Real - 106	mS/m	Master	-----	-11.600	5.356	21.000
Sonde Error Correction Quad - 106		Master	-----	-336.400	-28.671	317.000
Sonde Error Correction Real - 107	mS/m	Master	-----	-23.400	-10.592	1.200
Sonde Error Correction Quad - 107		Master	-----	-265.300	-13.606	364.100
Sonde Error Correction Real - 108	mS/m	Master	-----	-116.600	-71.569	-30.000
Sonde Error Correction Quad - 108		Master	-----	-103.600	97.344	345.000
Sonde Error Correction Real - 109	mS/m	Master	-----	-8.700	0.460	8.300
Sonde Error Correction Quad - 109		Master	-----	-442.400	-133.522	490.800
Sonde Error Correction Real - 110	mS/m	Master	-----	-10.000	-1.576	6.200
Sonde Error Correction Quad - 110		Master	-----	-66.400	9.389	82.600
Sonde Error Correction Real - 111	mS/m	Master	-----	-7.000	2.452	10.000
Sonde Error Correction Quad - 111		Master	-----	-504.500	110.066	428.700
Sonde Error Correction Real - 112	mS/m	Master	-----	-116.800	-70.084	-30.200
Sonde Error Correction Quad - 112		Master	-----	-82.300	84.744	343.700
Sonde Error Correction Real - 113	mS/m	Master	-----	-8.600	-1.374	7.600
Sonde Error Correction Quad - 113		Master	-----	-70.600	-27.958	78.400
Sonde Error Correction Real - 114	mS/m	Master	-----	-1.500	2.680	8.500
Sonde Error Correction Quad - 114		Master	-----	-163.800	-5.359	161.800
Sonde Error Correction Real - 115	mS/m	Master	-----	-4.400	1.023	5.600
Sonde Error Correction Quad - 115		Master	-----	-166.300	-14.873	159.300
Sonde Error Correction Real - 116	mS/m	Master	-----	-9.600	-8.091	-2.600
Sonde Error Correction Quad - 116		Master	-----	-106.900	39.480	217.500

AIT Shop Check - Master - Shop Sonde Error Correction Difference

Master (EEPROM): 21:18:45 05-Feb-2012 Expired by 61 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Sonde Error Corr Dif Real - 0	mS/m	Master	-----	-1422.350	-38.938	1422.350
Sonde Error Corr Dif Quad - 0		Master	-----	-33895.770	-3239.593	33895.770
Sonde Error Corr Dif Real - 1	mS/m	Master	-----	-1422.350	-2.182	1422.350
Sonde Error Corr Dif Quad - 1		Master	-----	-33895.770	-1410.321	33895.770
Sonde Error Corr Dif Real - 2	mS/m	Master	-----	-58.960	9.577	58.960
Sonde Error Corr Dif Quad - 2		Master	-----	-512.790	-46.020	512.790
Sonde Error Corr Dif Real - 3	mS/m	Master	-----	-278.130	-14.356	278.130
Sonde Error Corr Dif Quad - 3		Master	-----	-14228.720	-1180.744	14228.720
Sonde Error Corr Dif Real - 4	mS/m	Master	-----	-278.130	21.435	278.130
Sonde Error Corr Dif Quad - 4		Master	-----	-14228.720	-383.188	14228.720
Sonde Error Corr Dif Real - 5	mS/m	Master	-----	-22.330	2.534	22.330
Sonde Error Corr Dif Quad - 5		Master	-----	-214.990	-12.082	214.990
Sonde Error Corr Dif Real - 6	mS/m	Master	-----	-93.730	-11.016	93.730
Sonde Error Corr Dif Quad - 6		Master	-----	-5616.320	1358.191	5616.320
Sonde Error Corr Dif Real - 7	mS/m	Master	-----	-93.730	7.588	93.730
Sonde Error Corr Dif Quad - 7		Master	-----	-5616.320	-246.405	5616.320
Sonde Error Corr Dif Real - 8	mS/m	Master	-----	-12.700	0.303	12.700
Sonde Error Corr Dif Quad - 8		Master	-----	-58.980	-6.880	58.980

Sonde Error Corr Dif Real - 9	mS/m	Master	-----	-38.430	-1.685	38.430
Sonde Error Corr Dif Quad - 9		Master	-----	-525.260	-10.844	525.260
Sonde Error Corr Dif Real - 10	mS/m	Master	-----	-322.050	20.702	322.050
Sonde Error Corr Dif Quad - 10		Master	-----	-10299.530	-309.964	10299.530
Sonde Error Corr Dif Real - 11	mS/m	Master	-----	-183.710	-2.027	183.710
Sonde Error Corr Dif Quad - 11		Master	-----	-7941.350	-517.829	7941.350
Sonde Error Corr Dif Real - 12	mS/m	Master	-----	-322.050	-8.131	322.050
Sonde Error Corr Dif Quad - 12		Master	-----	-10299.530	290.571	10299.530
Sonde Error Corr Dif Real - 13	mS/m	Master	-----	-38.430	-1.196	38.430
Sonde Error Corr Dif Quad - 13		Master	-----	-525.260	-12.983	525.260
Sonde Error Corr Dif Real - 14	mS/m	Master	-----	-183.710	14.349	183.710
Sonde Error Corr Dif Quad - 14		Master	-----	-7941.350	-326.108	7941.350
Sonde Error Corr Dif Real - 15	mS/m	Master	-----	-131.160	-6.852	131.160
Sonde Error Corr Dif Quad - 15		Master	-----	-10322.010	-539.649	10322.010
Sonde Error Corr Dif Real - 16	mS/m	Master	-----	-131.160	-0.161	131.160
Sonde Error Corr Dif Quad - 16		Master	-----	-10322.010	-571.477	10322.010
Sonde Error Corr Dif Real - 17	mS/m	Master	-----	-10.520	-0.721	10.520
Sonde Error Corr Dif Quad - 17		Master	-----	-106.620	1.071	106.620
Sonde Error Corr Dif Real - 18	mS/m	Master	-----	-38.650	-0.668	38.650
Sonde Error Corr Dif Quad - 18		Master	-----	-259.430	-6.336	259.430
Sonde Error Corr Dif Real - 19	mS/m	Master	-----	-120.810	6.646	120.810
Sonde Error Corr Dif Quad - 19		Master	-----	-5070.680	-151.805	5070.680
Sonde Error Corr Dif Real - 20	mS/m	Master	-----	-56.450	0.458	56.450
Sonde Error Corr Dif Quad - 20		Master	-----	-3970.410	-262.838	3970.410
Sonde Error Corr Dif Real - 21	mS/m	Master	-----	-120.810	-3.297	120.810
Sonde Error Corr Dif Quad - 21		Master	-----	-5070.680	143.446	5070.680
Sonde Error Corr Dif Real - 22	mS/m	Master	-----	-38.650	-0.467	38.650
Sonde Error Corr Dif Quad - 22		Master	-----	-259.430	-6.649	259.430
Sonde Error Corr Dif Real - 23	mS/m	Master	-----	-56.450	4.033	56.450
Sonde Error Corr Dif Quad - 23		Master	-----	-3970.410	-161.602	3970.410
Sonde Error Corr Dif Real - 24	mS/m	Master	-----	-71.000	-0.345	71.000
Sonde Error Corr Dif Quad - 24		Master	-----	-5118.910	-267.337	5118.910
Sonde Error Corr Dif Real - 25	mS/m	Master	-----	-71.000	0.044	71.000
Sonde Error Corr Dif Quad - 25		Master	-----	-5118.910	-282.721	5118.910
Sonde Error Corr Dif Real - 26	mS/m	Master	-----	-4.790	-0.263	4.790
Sonde Error Corr Dif Quad - 26		Master	-----	-55.660	0.671	55.660
Sonde Error Corr Dif Real - 27	mS/m	Master	-----	-73.800	2.353	73.800
Sonde Error Corr Dif Quad - 27		Master	-----	-352.850	33.502	352.850
Sonde Error Corr Dif Real - 28	mS/m	Master	-----	-159.880	-13.713	159.880
Sonde Error Corr Dif Quad - 28		Master	-----	-6824.670	396.106	6824.670
Sonde Error Corr Dif Real - 29	mS/m	Master	-----	-69.240	-3.398	69.240
Sonde Error Corr Dif Quad - 29		Master	-----	-2661.290	-15.672	2661.290
Sonde Error Corr Dif Real - 30	mS/m	Master	-----	-159.880	19.033	159.880
Sonde Error Corr Dif Quad - 30		Master	-----	-6824.670	-415.080	6824.670
Sonde Error Corr Dif Real - 31	mS/m	Master	-----	-73.800	2.887	73.800
Sonde Error Corr Dif Quad - 31		Master	-----	-352.850	33.922	352.850
Sonde Error Corr Dif Real - 32	mS/m	Master	-----	-69.240	4.996	69.240
Sonde Error Corr Dif Quad - 32		Master	-----	-2661.290	-178.874	2661.290
Sonde Error Corr Dif Real - 33	mS/m	Master	-----	-58.940	4.350	58.940
Sonde Error Corr Dif Quad - 33		Master	-----	-2490.890	-23.880	2490.890
Sonde Error Corr Dif Real - 34	mS/m	Master	-----	-58.940	2.881	58.940
Sonde Error Corr Dif Quad - 34		Master	-----	-2490.890	-154.983	2490.890
Sonde Error Corr Dif Real - 35	mS/m	Master	-----	-8.280	-0.050	8.280
Sonde Error Corr Dif Quad - 35		Master	-----	-9138.350	-7.851	9138.350
Sonde Error Corr Dif Real - 36	mS/m	Master	-----	-75.280	1.514	75.280
Sonde Error Corr Dif Quad - 36		Master	-----	-175.090	21.365	175.090
Sonde Error Corr Dif Real - 37	mS/m	Master	-----	-50.660	-2.195	50.660
Sonde Error Corr Dif Quad - 37		Master	-----	-3386.630	199.638	3386.630
Sonde Error Corr Dif Real - 38	mS/m	Master	-----	-22.870	-0.931	22.870
Sonde Error Corr Dif Quad - 38		Master	-----	-1332.130	-7.473	1332.130
Sonde Error Corr Dif Real - 39	mS/m	Master	-----	-50.660	3.504	50.660
Sonde Error Corr Dif Quad - 39		Master	-----	-3386.630	-207.345	3386.630
Sonde Error Corr Dif Real - 40	mS/m	Master	-----	-75.280	2.004	75.280
Sonde Error Corr Dif Quad - 40		Master	-----	-175.090	21.808	175.090
Sonde Error Corr Dif Real - 41	mS/m	Master	-----	-22.870	1.464	22.870

Sonde Error Corr Dif Quad - 41		Master	-----	-1332.130	-88.240	1332.130
Sonde Error Corr Dif Real - 42	mS/m	Master	-----	-46.710	0.925	46.710
Sonde Error Corr Dif Quad - 42		Master	-----	-1250.020	-9.858	1250.020
Sonde Error Corr Dif Real - 43	mS/m	Master	-----	-46.710	0.537	46.710
Sonde Error Corr Dif Quad - 43		Master	-----	-1250.020	-75.678	1250.020
Sonde Error Corr Dif Real - 44	mS/m	Master	-----	-3.760	-0.137	3.760
Sonde Error Corr Dif Quad - 44		Master	-----	-25.880	-4.282	25.880
Sonde Error Corr Dif Real - 45	mS/m	Master	-----	-17.300	3.616	17.300
Sonde Error Corr Dif Quad - 45		Master	-----	-176.360	12.028	176.360
Sonde Error Corr Dif Real - 46	mS/m	Master	-----	-124.190	14.383	124.190
Sonde Error Corr Dif Quad - 46		Master	-----	-4733.690	-421.111	4733.690
Sonde Error Corr Dif Real - 47	mS/m	Master	-----	-40.710	-3.909	40.710
Sonde Error Corr Dif Quad - 47		Master	-----	-1317.910	10.688	1317.910
Sonde Error Corr Dif Real - 48	mS/m	Master	-----	-124.190	-10.525	124.190
Sonde Error Corr Dif Quad - 48		Master	-----	-4733.690	444.532	4733.690
Sonde Error Corr Dif Real - 49	mS/m	Master	-----	-17.300	3.372	17.300
Sonde Error Corr Dif Quad - 49		Master	-----	-176.360	35.708	176.360
Sonde Error Corr Dif Real - 50	mS/m	Master	-----	-40.710	0.675	40.710
Sonde Error Corr Dif Quad - 50		Master	-----	-1317.910	-181.548	1317.910
Sonde Error Corr Dif Real - 51	mS/m	Master	-----	-21.650	-2.759	21.650
Sonde Error Corr Dif Quad - 51		Master	-----	-1487.450	-32.967	1487.450
Sonde Error Corr Dif Real - 52	mS/m	Master	-----	-21.650	1.390	21.650
Sonde Error Corr Dif Quad - 52		Master	-----	-1487.450	-198.059	1487.450
Sonde Error Corr Dif Real - 53	mS/m	Master	-----	-6.870	-0.472	6.870
Sonde Error Corr Dif Quad - 53		Master	-----	-22.760	4.274	22.760
Sonde Error Corr Dif Real - 54	mS/m	Master	-----	-14.160	2.727	14.160
Sonde Error Corr Dif Quad - 54		Master	-----	-88.850	7.439	88.850
Sonde Error Corr Dif Real - 55	mS/m	Master	-----	-19.500	2.146	19.500
Sonde Error Corr Dif Quad - 55		Master	-----	-2367.930	-209.143	2367.930
Sonde Error Corr Dif Real - 56	mS/m	Master	-----	-17.070	-0.754	17.070
Sonde Error Corr Dif Quad - 56		Master	-----	-661.990	3.985	661.990
Sonde Error Corr Dif Real - 57	mS/m	Master	-----	-19.500	-1.020	19.500
Sonde Error Corr Dif Quad - 57		Master	-----	-2367.930	221.010	2367.930
Sonde Error Corr Dif Real - 58	mS/m	Master	-----	-14.160	2.987	14.160
Sonde Error Corr Dif Quad - 58		Master	-----	-88.850	22.063	88.850
Sonde Error Corr Dif Real - 59	mS/m	Master	-----	-17.070	-0.834	17.070
Sonde Error Corr Dif Quad - 59		Master	-----	-661.990	-91.586	661.990
Sonde Error Corr Dif Real - 60	mS/m	Master	-----	-11.090	-1.180	11.090
Sonde Error Corr Dif Quad - 60		Master	-----	-742.280	-16.004	742.280
Sonde Error Corr Dif Real - 61	mS/m	Master	-----	-11.090	-0.288	11.090
Sonde Error Corr Dif Quad - 61		Master	-----	-742.280	-98.170	742.280
Sonde Error Corr Dif Real - 62	mS/m	Master	-----	-3.800	-0.256	3.800
Sonde Error Corr Dif Quad - 62		Master	-----	-13.370	2.043	13.370
Sonde Error Corr Dif Real - 63	mS/m	Master	-----	-12.070	2.173	12.070
Sonde Error Corr Dif Quad - 63		Master	-----	-90.680	3.461	90.680
Sonde Error Corr Dif Real - 64	mS/m	Master	-----	-43.670	-0.972	43.670
Sonde Error Corr Dif Quad - 64		Master	-----	-1646.130	61.754	1646.130
Sonde Error Corr Dif Real - 65	mS/m	Master	-----	-24.500	-3.802	24.500
Sonde Error Corr Dif Quad - 65		Master	-----	-477.700	20.265	477.700
Sonde Error Corr Dif Real - 66	mS/m	Master	-----	-43.670	2.529	43.670
Sonde Error Corr Dif Quad - 66		Master	-----	-1646.130	-62.699	1646.130
Sonde Error Corr Dif Real - 67	mS/m	Master	-----	-12.070	3.473	12.070
Sonde Error Corr Dif Quad - 67		Master	-----	-90.680	0.222	90.680
Sonde Error Corr Dif Real - 68	mS/m	Master	-----	-24.500	-1.024	24.500
Sonde Error Corr Dif Quad - 68		Master	-----	-477.700	27.274	477.700
Sonde Error Corr Dif Real - 69	mS/m	Master	-----	-12.430	0.230	12.430
Sonde Error Corr Dif Quad - 69		Master	-----	-622.540	18.226	622.540
Sonde Error Corr Dif Real - 70	mS/m	Master	-----	-12.430	-1.144	12.430
Sonde Error Corr Dif Quad - 70		Master	-----	-622.540	67.371	622.540
Sonde Error Corr Dif Real - 71	mS/m	Master	-----	-3.560	-0.375	3.560
Sonde Error Corr Dif Quad - 71		Master	-----	-10.290	0.883	10.290
Sonde Error Corr Dif Real - 72	mS/m	Master	-----	-8.900	1.739	8.900
Sonde Error Corr Dif Quad - 72		Master	-----	-50.090	4.633	50.090
Sonde Error Corr Dif Real - 73	mS/m	Master	-----	-8.150	0.226	8.150
Sonde Error Corr Dif Quad - 73		Master	-----	-815.430	31.007	815.430

Sonde Error Corr Dif Quad - 73		Master	-----	-815.430	31.007	815.430
Sonde Error Corr Dif Real - 74	mS/m	Master	-----	-12.270	-0.933	12.270
Sonde Error Corr Dif Quad - 74		Master	-----	-242.090	11.003	242.090
Sonde Error Corr Dif Real - 75	mS/m	Master	-----	-8.150	0.781	8.150
Sonde Error Corr Dif Quad - 75		Master	-----	-815.430	-31.180	815.430
Sonde Error Corr Dif Real - 76	mS/m	Master	-----	-8.900	2.394	8.900
Sonde Error Corr Dif Quad - 76		Master	-----	-50.090	0.823	50.090
Sonde Error Corr Dif Real - 77	mS/m	Master	-----	-12.270	0.150	12.270
Sonde Error Corr Dif Quad - 77		Master	-----	-242.090	13.005	242.090
Sonde Error Corr Dif Real - 78	mS/m	Master	-----	-6.910	0.150	6.910
Sonde Error Corr Dif Quad - 78		Master	-----	-309.500	10.732	309.500
Sonde Error Corr Dif Real - 79	mS/m	Master	-----	-6.910	0.168	6.910
Sonde Error Corr Dif Quad - 79		Master	-----	-309.500	34.129	309.500
Sonde Error Corr Dif Real - 80	mS/m	Master	-----	-2.270	-0.282	2.270
Sonde Error Corr Dif Quad - 80		Master	-----	-5.950	0.302	5.950
Sonde Error Corr Dif Real - 81	mS/m	Master	-----	-14.820	2.564	14.820
Sonde Error Corr Dif Quad - 81		Master	-----	-41.940	4.308	41.940
Sonde Error Corr Dif Real - 82	mS/m	Master	-----	-26.750	-0.516	26.750
Sonde Error Corr Dif Quad - 82		Master	-----	-1113.920	66.561	1113.920
Sonde Error Corr Dif Real - 83	mS/m	Master	-----	-22.910	-2.875	22.910
Sonde Error Corr Dif Quad - 83		Master	-----	-425.640	38.712	425.640
Sonde Error Corr Dif Real - 84	mS/m	Master	-----	-26.750	3.410	26.750
Sonde Error Corr Dif Quad - 84		Master	-----	-1113.920	-60.864	1113.920
Sonde Error Corr Dif Real - 85	mS/m	Master	-----	-14.820	2.130	14.820
Sonde Error Corr Dif Quad - 85		Master	-----	-41.940	2.390	41.940
Sonde Error Corr Dif Real - 86	mS/m	Master	-----	-22.910	-1.358	22.910
Sonde Error Corr Dif Quad - 86		Master	-----	-425.640	-11.175	425.640
Sonde Error Corr Dif Real - 87	mS/m	Master	-----	-17.620	-0.468	17.620
Sonde Error Corr Dif Quad - 87		Master	-----	-619.330	23.362	619.330
Sonde Error Corr Dif Real - 88	mS/m	Master	-----	-17.620	-0.550	17.620
Sonde Error Corr Dif Quad - 88		Master	-----	-619.330	5.005	619.330
Sonde Error Corr Dif Real - 89	mS/m	Master	-----	-3.910	-0.143	3.910
Sonde Error Corr Dif Quad - 89		Master	-----	-9.470	1.675	9.470
Sonde Error Corr Dif Real - 90	mS/m	Master	-----	-11.240	2.166	11.240
Sonde Error Corr Dif Quad - 90		Master	-----	-18.450	1.586	18.450
Sonde Error Corr Dif Real - 91	mS/m	Master	-----	-6.130	0.578	6.130
Sonde Error Corr Dif Quad - 91		Master	-----	-563.230	34.421	563.230
Sonde Error Corr Dif Real - 92	mS/m	Master	-----	-13.750	-0.864	13.750
Sonde Error Corr Dif Quad - 92		Master	-----	-215.560	19.612	215.560
Sonde Error Corr Dif Real - 93	mS/m	Master	-----	-6.130	0.600	6.130
Sonde Error Corr Dif Quad - 93		Master	-----	-563.230	-30.951	563.230
Sonde Error Corr Dif Real - 94	mS/m	Master	-----	-11.240	1.774	11.240
Sonde Error Corr Dif Quad - 94		Master	-----	-18.450	1.522	18.450
Sonde Error Corr Dif Real - 95	mS/m	Master	-----	-13.750	-0.591	13.750
Sonde Error Corr Dif Quad - 95		Master	-----	-215.560	-6.665	215.560
Sonde Error Corr Dif Real - 96	mS/m	Master	-----	-9.770	-0.130	9.770
Sonde Error Corr Dif Quad - 96		Master	-----	-316.930	12.217	316.930
Sonde Error Corr Dif Real - 97	mS/m	Master	-----	-9.770	-0.150	9.770
Sonde Error Corr Dif Quad - 97		Master	-----	-316.930	2.476	316.930
Sonde Error Corr Dif Real - 98	mS/m	Master	-----	-2.110	-0.040	2.110
Sonde Error Corr Dif Quad - 98		Master	-----	-7.370	0.693	7.370
Sonde Error Corr Dif Real - 99	mS/m	Master	-----	-15.930	2.427	15.930
Sonde Error Corr Dif Quad - 99		Master	-----	-35.540	7.201	35.540
Sonde Error Corr Dif Real - 100	mS/m	Master	-----	-22.000	7.180	22.000
Sonde Error Corr Dif Quad - 100		Master	-----	-562.650	-172.812	562.650
Sonde Error Corr Dif Real - 101	mS/m	Master	-----	-29.210	-3.482	29.210
Sonde Error Corr Dif Quad - 101		Master	-----	-209.850	-5.776	209.850
Sonde Error Corr Dif Real - 102	mS/m	Master	-----	-22.000	-2.820	22.000
Sonde Error Corr Dif Quad - 102		Master	-----	-562.650	173.665	562.650
Sonde Error Corr Dif Real - 103	mS/m	Master	-----	-15.930	2.072	15.930
Sonde Error Corr Dif Quad - 103		Master	-----	-35.540	6.699	35.540
Sonde Error Corr Dif Real - 104	mS/m	Master	-----	-29.210	-2.646	29.210
Sonde Error Corr Dif Quad - 104		Master	-----	-209.850	-15.069	209.850
Sonde Error Corr Dif Real - 105	mS/m	Master	-----	-23.810	0.751	23.810
Sonde Error Corr Dif Quad - 105		Master	-----	-232.790	-39.856	232.790

Sonde Error Corr Dif Real - 106	mS/m	Master	-----	-23.810	-0.731	23.810
Sonde Error Corr Dif Quad - 106		Master	-----	-232.790	3.425	232.790
Sonde Error Corr Dif Real - 107	mS/m	Master	-----	-10.690	-0.282	10.690
Sonde Error Corr Dif Quad - 107		Master	-----	-19.320	1.276	19.320
Sonde Error Corr Dif Real - 108	mS/m	Master	-----	-9.300	1.461	9.300
Sonde Error Corr Dif Quad - 108		Master	-----	-21.950	3.952	21.950
Sonde Error Corr Dif Real - 109	mS/m	Master	-----	-8.990	0.687	8.990
Sonde Error Corr Dif Quad - 109		Master	-----	-293.930	-86.366	293.930
Sonde Error Corr Dif Real - 110	mS/m	Master	-----	-16.850	-1.121	16.850
Sonde Error Corr Dif Quad - 110		Master	-----	-94.980	-4.171	94.980
Sonde Error Corr Dif Real - 111	mS/m	Master	-----	-8.990	0.970	8.990
Sonde Error Corr Dif Quad - 111		Master	-----	-293.930	87.400	293.930
Sonde Error Corr Dif Real - 112	mS/m	Master	-----	-9.300	1.405	9.300
Sonde Error Corr Dif Quad - 112		Master	-----	-21.950	2.092	21.950
Sonde Error Corr Dif Real - 113	mS/m	Master	-----	-16.850	-0.355	16.850
Sonde Error Corr Dif Quad - 113		Master	-----	-94.980	-6.924	94.980
Sonde Error Corr Dif Real - 114	mS/m	Master	-----	-14.210	-0.647	14.210
Sonde Error Corr Dif Quad - 114		Master	-----	-112.060	-18.358	112.060
Sonde Error Corr Dif Real - 115	mS/m	Master	-----	-14.210	-0.309	14.210
Sonde Error Corr Dif Quad - 115		Master	-----	-112.060	2.221	112.060
Sonde Error Corr Dif Real - 116	mS/m	Master	-----	-1.760	0.267	1.760
Sonde Error Corr Dif Quad - 116		Master	-----	-10.880	0.373	10.880

AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM): 21:18:45 05-Feb-2012 Expired by 61 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Coarse Gain		Master	1.000	0.800	1.078	1.200
Fine Gain		Master	1.000	0.800	1.072	1.200

AIT Electronics Check - Thru Calibration Check

Master (EEPROM): 06:37:02 23-Jun-2010 Expired by 654 days Before (Measured): 16:15:43 06-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Thru Cal Mag - 0	V	Master	-----	0.874	1.516	2.038
		Before	-----	0.874	1.547	2.038
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.031	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 0	deg	Master	-----	-180.000	13.014	180.000
		Before	-----	-180.000	-158.147	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-171.161	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 1	V	Master	-----	0.874	1.523	2.038
		Before	-----	0.874	1.560	2.038
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.037	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 1	deg	Master	-----	-180.000	11.170	180.000
		Before	-----	-180.000	-156.415	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-167.585	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 2	V	Master	-----	0.874	1.451	2.038
		Before	-----	0.874	1.577	2.038
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.126	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 2	deg	Master	-----	-180.000	7.123	180.000
		Before	-----	-180.000	-155.895	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-163.018	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 3	V	Master	-----	2.011	3.478	4.693
		Before	-----	2.011	3.550	4.693
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.072	-----
		After-Before	-----	-----	-----	-----

Thru Cal Phase - 3	deg	Master	-----	-180.000	9.699	180.000
		Before	-----	-180.000	-159.632	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-169.331	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 4	V	Master	-----	2.011	3.495	4.693
		Before	-----	2.011	3.581	4.693
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.086	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 4	deg	Master	-----	-180.000	7.863	180.000
		Before	-----	-180.000	-157.898	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-165.761	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 5	V	Master	-----	2.011	3.329	4.693
		Before	-----	2.011	3.620	4.693
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.291	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 5	deg	Master	-----	-180.000	3.819	180.000
		Before	-----	-180.000	-157.384	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-161.203	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 6	V	Master	-----	1.608	2.773	3.752
		Before	-----	1.608	2.829	3.752
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.056	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 6	deg	Master	-----	-180.000	5.358	180.000
		Before	-----	-180.000	-164.907	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-170.265	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 7	V	Master	-----	1.608	2.788	3.752
		Before	-----	1.608	2.854	3.752
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.066	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 7	deg	Master	-----	-180.000	3.510	180.000
		Before	-----	-180.000	-163.177	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-166.687	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 8	V	Master	-----	1.608	2.655	3.752
		Before	-----	1.608	2.885	3.752
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.230	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 8	deg	Master	-----	-180.000	-0.553	180.000
		Before	-----	-180.000	-162.662	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-162.109	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 9	V	Master	-----	1.174	1.903	2.739
		Before	-----	1.174	1.903	2.739
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 9	deg	Master	-----	-180.000	3.557	180.000
		Before	-----	-180.000	-66.157	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-69.714	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 10	V	Master	-----	1.174	1.902	2.739
		Before	-----	1.174	1.904	2.739
		After	-----	-----	-----	-----

		Before-Master	-----	-----	0.002	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 10	deg	Master	-----	-180.000	3.051	180.000
		Before	-----	-180.000	-63.795	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-66.846	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 11	V	Master	-----	1.174	1.903	2.739
		Before	-----	1.174	1.944	2.739
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.041	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 11	deg	Master	-----	-180.000	6.206	180.000
		Before	-----	-180.000	-63.681	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-69.887	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 12	V	Master	-----	2.122	3.644	4.951
		Before	-----	2.122	3.719	4.951
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.075	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 12	deg	Master	-----	-180.000	12.991	180.000
		Before	-----	-180.000	-158.485	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-171.476	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 13	V	Master	-----	2.122	3.663	4.951
		Before	-----	2.122	3.751	4.951
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.088	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 13	deg	Master	-----	-180.000	11.171	180.000
		Before	-----	-180.000	-156.807	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-167.978	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 14	V	Master	-----	2.122	3.489	4.951
		Before	-----	2.122	3.793	4.951
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.304	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 14	deg	Master	-----	-180.000	7.170	180.000
		Before	-----	-180.000	-156.277	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-163.447	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 15	V	Master	-----	1.860	3.056	4.340
		Before	-----	1.860	3.056	4.340
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 15	deg	Master	-----	-180.000	3.536	180.000
		Before	-----	-180.000	-66.557	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-70.093	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 16	V	Master	-----	1.860	3.054	4.340
		Before	-----	1.860	3.057	4.340
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.003	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 16	deg	Master	-----	-180.000	3.039	180.000
		Before	-----	-180.000	-64.177	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-67.216	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 17	V	Master	-----	1.860	3.056	4.340

Thru Cal Mag - 17	V	Master	-----	1.860	3.122	4.340
		Before	-----	1.860	3.122	4.340
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.066	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 17	deg	Master	-----	-180.000	6.186	180.000
		Before	-----	-180.000	-64.063	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-70.249	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 18	V	Master	-----	0.562	0.966	1.310
		Before	-----	0.562	0.986	1.310
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.020	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 18	deg	Master	-----	-180.000	12.987	180.000
		Before	-----	-180.000	-157.709	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-170.696	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 19	V	Master	-----	0.562	0.969	1.310
		Before	-----	0.562	0.993	1.310
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.024	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 19	deg	Master	-----	-180.000	11.212	180.000
		Before	-----	-180.000	-156.005	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-167.217	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 20	V	Master	-----	0.562	0.923	1.310
		Before	-----	0.562	1.003	1.310
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.080	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 20	deg	Master	-----	-180.000	7.177	180.000
		Before	-----	-180.000	-155.525	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-162.702	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 21	V	Master	-----	2.449	4.051	5.714
		Before	-----	2.449	4.050	5.714
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.001	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 21	deg	Master	-----	-180.000	2.065	180.000
		Before	-----	-180.000	-66.824	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-68.889	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 22	V	Master	-----	2.449	4.048	5.714
		Before	-----	2.449	4.051	5.714
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.003	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 22	deg	Master	-----	-180.000	1.571	180.000
		Before	-----	-180.000	-64.454	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-66.025	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 23	V	Master	-----	2.449	4.051	5.714
		Before	-----	2.449	4.137	5.714
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.086	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 23	deg	Master	-----	-180.000	4.724	180.000
		Before	-----	-180.000	-64.333	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	69.057	-----

		Before-Master	-----	-----	-69.037	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 24	V	Master	-----	0.817	1.403	1.907
		Before	-----	0.817	1.431	1.907
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.028	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 24	deg	Master	-----	-180.000	9.639	180.000
		Before	-----	-180.000	-160.123	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-169.762	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 25	V	Master	-----	0.817	1.407	1.907
		Before	-----	0.817	1.441	1.907
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.034	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 25	deg	Master	-----	-180.000	7.864	180.000
		Before	-----	-180.000	-158.415	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-166.279	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 26	V	Master	-----	0.817	1.340	1.907
		Before	-----	0.817	1.457	1.907
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.117	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 26	deg	Master	-----	-180.000	3.856	180.000
		Before	-----	-180.000	-157.899	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-161.755	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 27	V	Master	-----	2.449	4.051	5.714
		Before	-----	2.449	4.050	5.714
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.001	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 27	deg	Master	-----	-180.000	2.064	180.000
		Before	-----	-180.000	-66.846	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-68.910	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 28	V	Master	-----	2.449	4.048	5.714
		Before	-----	2.449	4.051	5.714
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.003	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 28	deg	Master	-----	-180.000	1.568	180.000
		Before	-----	-180.000	-64.459	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-66.027	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 29	V	Master	-----	2.449	4.051	5.714
		Before	-----	2.449	4.137	5.714
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.086	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 29	deg	Master	-----	-180.000	4.714	180.000
		Before	-----	-180.000	-64.341	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-69.055	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 30	V	Master	-----	0.817	1.403	1.907
		Before	-----	0.817	1.432	1.907
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.029	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 30	deg	Master	-----	-180.000	9.641	180.000
		Before	-----	-180.000	-160.123	180.000

		Before	-----	-180.000	-160.122	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-169.763	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 31	V	Master	-----	0.817	1.407	1.907
		Before	-----	0.817	1.441	1.907
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.034	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 31	deg	Master	-----	-180.000	7.875	180.000
		Before	-----	-180.000	-158.412	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-166.287	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 32	V	Master	-----	0.817	1.340	1.907
		Before	-----	0.817	1.457	1.907
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.117	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 32	deg	Master	-----	-180.000	3.827	180.000
		Before	-----	-180.000	-157.933	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-161.760	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 33	V	Master	-----	0.732	1.168	1.708
		Before	-----	0.732	1.167	1.708
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.001	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 33	deg	Master	-----	-180.000	-0.506	180.000
		Before	-----	-180.000	-70.655	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-70.149	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 34	V	Master	-----	0.732	1.164	1.708
		Before	-----	0.732	1.164	1.708
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 34	deg	Master	-----	-180.000	-0.960	180.000
		Before	-----	-180.000	-68.255	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-67.295	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 35	V	Master	-----	0.732	1.165	1.708
		Before	-----	0.732	1.189	1.708
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.024	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 35	deg	Master	-----	-180.000	2.185	180.000
		Before	-----	-180.000	-68.142	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-70.327	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 36	V	Master	-----	0.981	1.654	2.289
		Before	-----	0.981	1.687	2.289
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.033	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 36	deg	Master	-----	-180.000	5.256	180.000
		Before	-----	-180.000	-165.823	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-171.079	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 37	V	Master	-----	0.981	1.660	2.289
		Before	-----	0.981	1.699	2.289
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.039	-----

		After-Before	-----	-----	-----	-----
Thru Cal Phase - 37	deg	Master	-----	-180.000	3.478	180.000
		Before	-----	-180.000	-164.115	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-167.593	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 38	V	Master	-----	0.981	1.581	2.289
		Before	-----	0.981	1.717	2.289
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.136	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 38	deg	Master	-----	-180.000	-0.528	180.000
		Before	-----	-180.000	-163.597	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-163.069	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 39	V	Master	-----	0.878	1.404	2.049
		Before	-----	0.878	1.403	2.049
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.001	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 39	deg	Master	-----	-180.000	-0.497	180.000
		Before	-----	-180.000	-70.505	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-70.008	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 40	V	Master	-----	0.878	1.399	2.049
		Before	-----	0.878	1.399	2.049
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 40	deg	Master	-----	-180.000	-0.953	180.000
		Before	-----	-180.000	-68.088	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-67.135	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 41	V	Master	-----	0.878	1.400	2.049
		Before	-----	0.878	1.429	2.049
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.029	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 41	deg	Master	-----	-180.000	2.197	180.000
		Before	-----	-180.000	-67.979	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-70.176	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 42	V	Master	-----	1.412	2.390	3.294
		Before	-----	1.412	2.438	3.294
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.048	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 42	deg	Master	-----	-180.000	5.313	180.000
		Before	-----	-180.000	-165.154	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-170.467	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 43	V	Master	-----	1.412	2.398	3.294
		Before	-----	1.412	2.454	3.294
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.056	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 43	deg	Master	-----	-180.000	3.547	180.000
		Before	-----	-180.000	-163.445	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-166.992	-----
		After-Before	-----	-----	-----	-----
Thru Cal Mag - 44	V	Master	-----	1.412	2.284	3.294
		Before	-----	1.412	2.481	3.294

		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.197	-----
		After-Before	-----	-----	-----	-----
Thru Cal Phase - 44	deg	Master	-----	-180.000	-0.509	180.000
		Before	-----	-180.000	-162.963	180.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-162.454	-----
		After-Before	-----	-----	-----	-----

AIT Electronics Check - Auxiliary Measurments Reference Check

Master (EEPROM): 06:37:02 23-Jun-2010 Expired by 654 days Before (Measured): 16:15:43 06-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
SPA Zero	mV	Master		-0.050	-0.001	0.050
		Before		-50.000	-0.938	50.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.937	-----
		After-Before	-----	-----	-----	-----
SPA Plus	mV	Master		0.757	0.842	0.915
		Before		756.500	842.080	915.400
		After	-----	-----	-----	-----
		Before-Master	-----	-----	841.238	-----
		After-Before	-----	-----	-----	-----
Temperature Zero	V	Master		-0.050	-0.001	0.050
		Before		-0.050	-0.001	0.050
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----
Temperature Plus	V	Master		0.880	0.989	1.076
		Before		0.880	0.989	1.076
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----
Voltage Zero	V	Master		-0.100	-0.010	0.100
		Before		-0.100	-0.010	0.100
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----
Voltage Plus	V	Master		4.500	5.019	5.500
		Before		4.500	5.019	5.500
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----

AIT Electronics Check - Power Supply Check

Master (EEPROM): 06:37:02 23-Jun-2010 Expired by 654 days Before (Measured): 16:15:43 06-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Power Supply - 0	V	Master	-----	-14.000	-12.979	-12.000
		Before	-----	-14.000	-12.982	-12.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.003	-----
		After-Before	-----	-----	-----	-----
Power Supply - 1	V	Master	-----	12.000	12.979	14.000
		Before	-----	12.000	12.982	14.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.003	-----
		After-Before	-----	-----	-----	-----
Power Supply - 2	V	Master	-----	-14.000	-12.902	-12.000
		Before	-----	-14.000	-12.901	-12.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.001	-----
		After-Before	-----	-----	-----	-----
Power Supply - 3	V	Master	-----	12.000	12.948	14.000
		Before	-----	12.000	12.946	14.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.002	-----
		After-Before	-----	-----	-----	-----
Power Supply - 4	V	Master	-----	15.000	18.965	31.000

		Before	-----	15.000	19.611	31.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.646	-----
		After-Before	-----	-----	-----	-----
Power Supply - 5	V	Master	-----	1.600	1.805	2.000
		Before	-----	1.600	1.805	2.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.000	-----
		After-Before	-----	-----	-----	-----
Power Supply - 6	V	Master	-----	2.200	2.464	2.800
		Before	-----	2.200	2.463	2.800
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.001	-----
		After-Before	-----	-----	-----	-----
Power Supply - 7	V	Master	-----	3.000	3.232	3.700
		Before	-----	3.000	3.231	3.700
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.001	-----
		After-Before	-----	-----	-----	-----
Power Supply - 8	V	Master	-----	4.500	4.944	5.600
		Before	-----	4.500	4.943	5.600
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.001	-----
		After-Before	-----	-----	-----	-----
Power Supply - 9	V	Master	-----	0.100	0.198	0.400
		Before	-----	0.100	0.215	0.400
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.017	-----
		After-Before	-----	-----	-----	-----
Power Supply - 10	V	Master	-----	0.100	0.200	0.400
		Before	-----	0.100	0.220	0.400
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.020	-----
		After-Before	-----	-----	-----	-----

GPIT-C (General Purpose Inclinometry Tool) Calibration - Run Run 1: PEX-ECS-HNGS-ZAIT

Primary Equipment :

GPIT GPIC Cartridge - C GPIC-C

GPIC Accelerometer Calibration - Accelerometer Coef Reading

Master (EEPROM): 00:00:00 15-Oct-2006

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Reference Temperature	degF	Master			68	
Serial Number		Master			921	
Coefficients - 0		Master	0	-----	-0.0012	-----
Coefficients - 1		Master	0	-----	-0.0008	-----
Coefficients - 2		Master	0	-----	0.0003	-----
Coefficients - 3		Master	0	-----	-0.001	-----
Coefficients - 4		Master	0	-----	4E-06	-----
Coefficients - 5		Master	0	-----	-5.8E-05	-----
Coefficients - 6		Master	0	-----	2E-06	-----
Coefficients - 7		Master	0	-----	2.1E-05	-----
Coefficients - 8		Master	0	-----	-2E-08	-----
Coefficients - 9		Master	0	-----	1E-07	-----
Coefficients - 10		Master	0	-----	0	-----
Coefficients - 11		Master	0	-----	-5E-08	-----
Coefficients - 12		Master	0	-----	-0.0006	-----
Coefficients - 13		Master	0	-----	-0.0006	-----
Coefficients - 14		Master	0	-----	-0.0004	-----
Coefficients - 15		Master	0	-----	0.0005	-----
Coefficients - 16		Master	0	-----	2E-06	-----
Coefficients - 17		Master	0	-----	2E-06	-----
Coefficients - 18		Master	0	-----	-9.4E-05	-----
Coefficients - 19		Master	0	-----	1.8E-05	-----
Coefficients - 20		Master	0	-----	-4E-08	-----
Coefficients - 21		Master	0		-3E-08	

Coefficients - 21		Master	0	-----	-3E-08	-----		
Coefficients - 22		Master	0	-----	1.4E-07	-----		
Coefficients - 23		Master	0	-----	0	-----		
Coefficients - 24		Master	0	-----	-0.0014	-----		
Coefficients - 25		Master	0	-----	-0.0003	-----		
Coefficients - 26		Master	0	-----	-0.0007	-----		
Coefficients - 27		Master	0	-----	-0.0002	-----		
Coefficients - 28		Master	0	-----	8E-06	-----		
Coefficients - 29		Master	0	-----	2E-06	-----		
Coefficients - 30		Master	0	-----	-1.9E-05	-----		
Coefficients - 31		Master	0	-----	-9.8E-05	-----		
Coefficients - 32		Master	0	-----	2E-08	-----		
Coefficients - 33		Master	0	-----	-2E-08	-----		
Coefficients - 34		Master	0	-----	-1E-08	-----		
Coefficients - 35		Master	0	-----	1.8E-07	-----		

GPIC Magnetometer Calibration - Magnetometer Coef Reading

Master (EEPROM): 00:00:00 15-Dec-2004

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Reference Temperature	degF	Master			66			
Serial Number		Master			675			
Coefficients - 0		Master	0	-----	-0.0054	-----		
Coefficients - 1		Master	0	-----	0.0056	-----		
Coefficients - 2		Master	0	-----	0.0054	-----		
Coefficients - 3		Master	0	-----	-0.0024	-----		
Coefficients - 4		Master	0	-----	1.2E-05	-----		
Coefficients - 5		Master	0	-----	-7.4E-05	-----		
Coefficients - 6		Master	0	-----	-4E-06	-----		
Coefficients - 7		Master	0	-----	0	-----		
Coefficients - 8		Master	0	-----	-1E-07	-----		
Coefficients - 9		Master	0	-----	2E-08	-----		
Coefficients - 10		Master	0	-----	-3E-08	-----		
Coefficients - 11		Master	0	-----	5E-08	-----		
Coefficients - 12		Master	0	-----	-0.0008	-----		
Coefficients - 13		Master	0	-----	0.0006	-----		
Coefficients - 14		Master	0	-----	0.0008	-----		
Coefficients - 15		Master	0	-----	-0.0036	-----		
Coefficients - 16		Master	0	-----	6E-06	-----		
Coefficients - 17		Master	0	-----	1.3E-05	-----		
Coefficients - 18		Master	0	-----	-6.4E-05	-----		
Coefficients - 19		Master	0	-----	-1.4E-05	-----		
Coefficients - 20		Master	0	-----	-1E-07	-----		
Coefficients - 21		Master	0	-----	-1.2E-07	-----		
Coefficients - 22		Master	0	-----	-2E-08	-----		
Coefficients - 23		Master	0	-----	9E-08	-----		
Coefficients - 24		Master	0	-----	-0.0024	-----		
Coefficients - 25		Master	0	-----	0.0008	-----		
Coefficients - 26		Master	0	-----	0.001	-----		
Coefficients - 27		Master	0	-----	-0.0008	-----		
Coefficients - 28		Master	0	-----	8E-06	-----		
Coefficients - 29		Master	0	-----	7E-06	-----		
Coefficients - 30		Master	0	-----	-1E-06	-----		
Coefficients - 31		Master	0	-----	-5.4E-05	-----		
Coefficients - 32		Master	0	-----	-8E-08	-----		
Coefficients - 33		Master	0	-----	-6E-08	-----		
Coefficients - 34		Master	0	-----	8E-08	-----		
Coefficients - 35		Master	0	-----	-1E-07	-----		

HDRS-B (HILT Density and Rxo Sonde, 125 degC) Calibration - Run Run 1: PEX-ECS-HNGS-ZAIT

Primary Equipment :

HILT High-Resolution Control Cartridge, 125 degC	HRCC-B	
HILT Resistivity Gamma-Ray Density Device, 125 degC	HRGD-B	1719

Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter

HRDD Long Spacing Detector	Long Spacing	
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5094
HILT High-Resolution Control Cartridge, 125 degC	HRCC-B	
HILT High-Resolution Mechanical Sonde, 125 degC	HRMS-B	

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): 10:52:11 05-Jul-2012 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Small Ring	in	Before	8.00	6.00	8.95	10.00
Large Ring	in	Before	12.00	9.00	14.07	15.00

HDRS Density Calibration - Inversion Results

Master (EEPROM): 14:41:08 05-Jul-2012

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	1.687	1.696
Pe Aluminum		Master	2.570	2.470	2.561	2.670
Pe Magnesium		Master	2.650	2.550	2.612	2.750

HDRS Density Calibration - Deviation Summary

Master (EEPROM): 14:41:08 05-Jul-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
BS Average Deviation	%	Master	0	-0.6000	0.3136	0.6000
BS Max Deviation	%	Master	0	-1.6000	0.7803	1.6000
SS Average Deviation	%	Master	0	-1.0000	0.3213	1.0000
SS Max Deviation	%	Master	0	-2.5000	1.1834	2.5000
LS Average Deviation	%	Master	0	-1.5000	0.6339	1.5000
LS Max Deviation	%	Master	0	-3.5000	1.7712	3.5000

HDRS Density Calibration - Background Summary

Master (EEPROM): 14:41:08 05-Jul-2012 Before (Measured): 10:40:01 05-Jul-2012 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
BS Window Ratio		Master	1.0000		0.7103	
		Before	0.7140	0.6783	0.7119	0.7497
		Before-Master	-----	-----	0.0016	-----
BS Window Sum	1/s	Master	1		9381	
		Before	9397	8927	9383	9867
		Before-Master	-----	-----	2	-----
SS Window Ratio		Master	1.0000		0.4812	
		Before	0.4810	0.4569	0.4807	0.5050
		Before-Master	-----	-----	-0.0005	-----
SS Window Sum	1/s	Master	1		9420	
		Before	9437	8965	9413	9909
		Before-Master	-----	-----	-7	-----
LS Window Ratio		Master	1.0000		0.2964	
		Before	0.2895	0.2751	0.2940	0.3040
		Before-Master	-----	-----	-0.0024	-----
LS Window Sum	1/s	Master	1		1029	
		Before	1025	974	1019	1076
		Before-Master	-----	-----	-10	-----

HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 14:41:08 05-Jul-2012 Before (Measured): 10:40:01 05-Jul-2012 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
BS PM High Voltage	V	Master		1000	1799	2400
		Before		1000	1772	2400
		Before-Master	-----	-100	-27	100
SS PM High Voltage	V	Master		1000	1435	2400
		Before		1000	1424	2400
		Before-Master	-----	-100	-11	100
LS PM High Voltage	V	Master		1000	1913	2400

		Before		1000	1898	2400
		Before-Master	-----	-100	-15	100

HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 14:41:08 05-Jul-2012 Before (Measured): 10:40:01 05-Jul-2012 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
BS Crystal Resolution	%	Master		5.00	11.62	25.00
		Before		5.00	11.53	25.00
		Before-Master	-----	-1.00	-0.09	1.00
SS Crystal Resolution	%	Master		5.00	8.74	20.00
		Before		5.00	8.85	20.00
		Before-Master	-----	-1.00	0.11	1.00
LS Crystal Resolution	%	Master		5.00	9.62	20.00
		Before		5.00	9.87	20.00
		Before-Master	-----	-1.00	0.25	1.00

HDRS MCFL Calibration - MCFL Accumulations

Before (Measured): 10:40:21 05-Jul-2012 Expired by 1 days

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Main Resistivity	ohm.m	Before	3875	3565	3868	4185
Deep Resistivity	ohm.m	Before	3830	3524	3830	4136
Shallow Resistivity	ohm.m	Before	3830	3524	3798	4136

HGNS-B (HILT Gamma-Ray and Neutron Sonde, 125 degC) Calibration - Run Run 1: PEX-ECS-HNGS-ZAIT

Primary Equipment :

HILT Gamma-Ray and Neutron Sonde, 125 degC	HGNS-B	1921

Auxiliary Equipment :

HGNS Accelerometer, 125 degC	HACCZ-B	749
AmBe Neutron Logging Source	NSR-F	5069

Calibration Parameter :

Water Temperature	
Housing Size	
JIG-BKG (Jig minus background reference)	165

HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured): 16:14:32 06-Jul-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
AZ Vertical Measurement	ft/s2	Before	32.2	31.5	32.2	32.8

HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM): 00:00:00 15-Mar-2001

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Accelerometer Manufacturer		Master			Sunstrand	
Accelerometer Reference Temperature	degF	Master		30.2	68.0	122.0
Accelerometer Coefficients - 0		Master	-----	-----	-5693.000	-----
Accelerometer Coefficients - 1		Master	-----	-----	20.390	-----
Accelerometer Coefficients - 2		Master	-----	-----	-0.031	-----
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----
Accelerometer Coefficients - 4		Master	-----	-----	2.141	-----
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----
Accelerometer Coefficients - 7		Master	-----	-----	0.000	-----
Accelerometer Coefficients - 8		Master	-----	-----	295.800	-----
Accelerometer Coefficients - 9		Master	-----	-----	1.031	-----

HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 17:32:08 02-May-2012 Before (Measured): 10:38:36 05-Jul-2012 Expired by 1 days After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Near Zero Measurement	1/s	Master	0	5.0	27.6	40.0
		Before	0	5.0	27.4	40.0
		After	-----	-----	-----	-----

		Before-Master	-----	-4.1	-0.2	4.1
		After-Before	-----	-----	-----	-----
Far Zero Measurement	1/s	Master	0	5.0	29.4	40.0
		Before	0	5.0	27.3	40.0
		After	-----	-----	-----	-----
		Before-Master	-----	-4.4	-2.1	4.4
		After-Before	-----	-----	-----	-----
Near Plus Measurement - 0	1/s	Master	6031.0	4700.0	4936.0	6900.0
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Far Plus Measurement - 0	1/s	Master	2793.0	1900.0	2089.0	2900.0
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Near Corrected Plus Measurement - 0	1/s	Master		4700.0	4954.0	6900.0
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Far Corrected Plus Measurement - 0	1/s	Master		1900.0	2089.0	2900.0
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured): 10:46:31 05-Jul-2012 Expired by 1 days After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
RGR Zero Measurement	gAPI	Before	30.0	0	77.1	120.0
		After	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
RGR Plus Measurement	gAPI	Before	185.4	157.1	173.8	206.3
		After			NOT DONE	
		After-Before	-----	-----	-----	-----
GR Calibration Gain		Before	0.89	0.80	0.95	1.05
		After	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

ECS-A (Elemental Capture Spectroscopy Tool) Calibration - Run Run 1: PEX-ECS-HNGS-ZAIT

Primary Equipment :

The ECS sonde is used to measure elemental concentrations.	ECS-A	34

Auxiliary Equipment :

The gamma ray BGO detector is used to detect prompt capture gamma rays for spectroscopy measurement.	ECSD-A	
The AmBe source provides neutrons for the prompt capture spectroscopy measurement.	NSR-F	2554
Housing to contain the ECS Sonde Assembly	ECSH-A	34
Litho-Density Spectroscopy Cartridge	LDSC-B	39
Housing for the LDSC	LDSH-A	41

ECS Background Measurement Check - ECS Calibration Check

Master: Before: After:

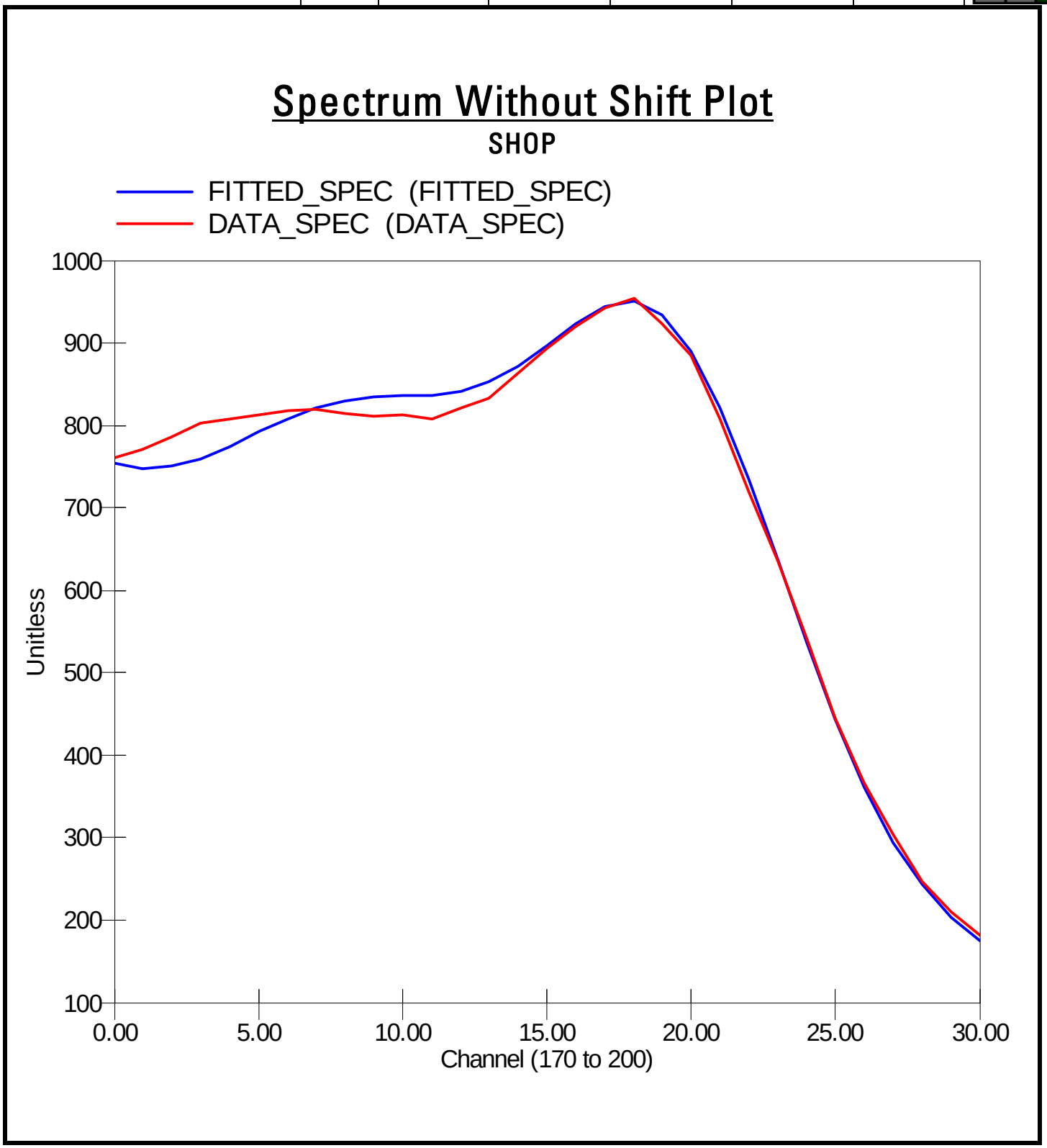
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Detector resolution (20 DegC)		Master	13.000	11.200	NOT DONE	14.000
		Before	13.000	11.200	NOT DONE	14.000
		After	13.000	11.200	NOT DONE	14.000
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

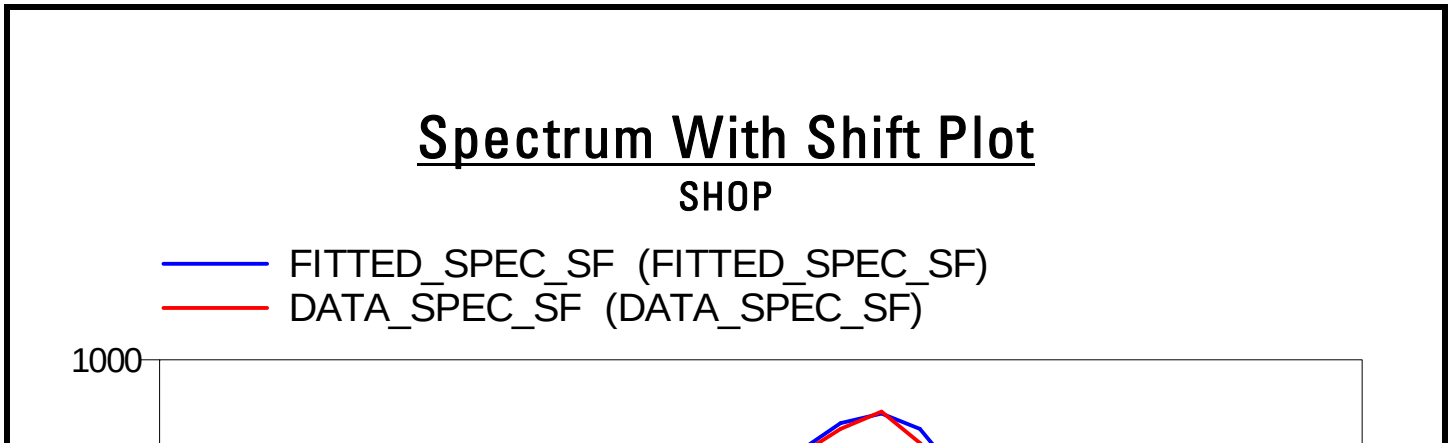
ECS Spectral Calibration - ECS Spectral Calibration

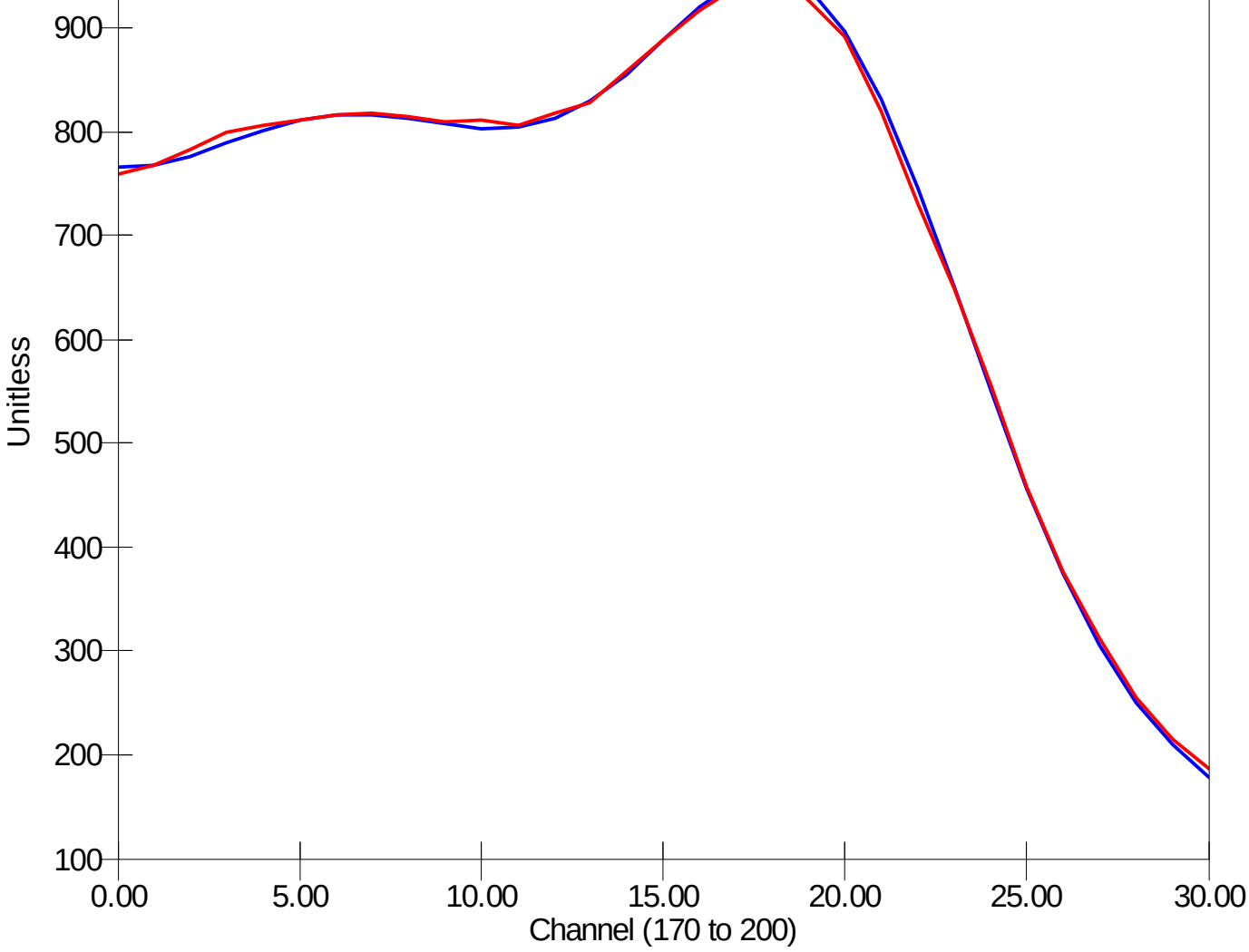
Master (EEPROM): 17:05:46 06-Jul-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Spectral Shift Factor		Master	1.000	-0.500	1.127	1.500	

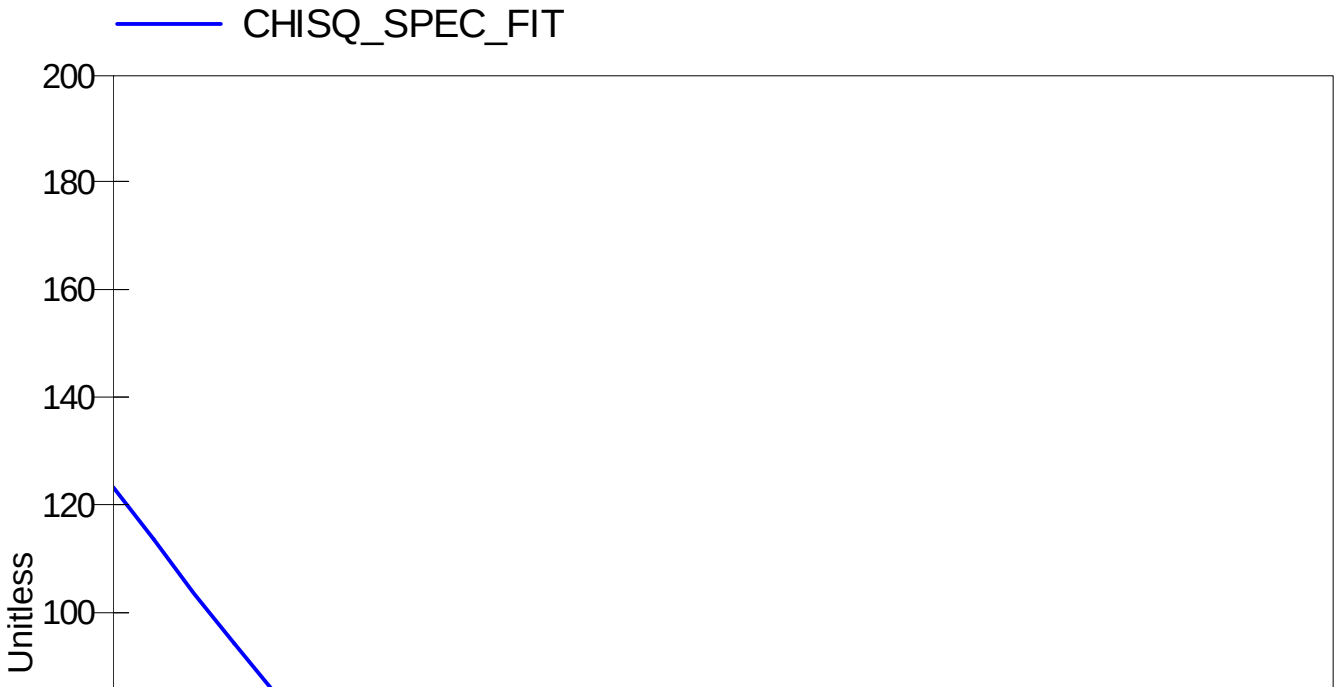


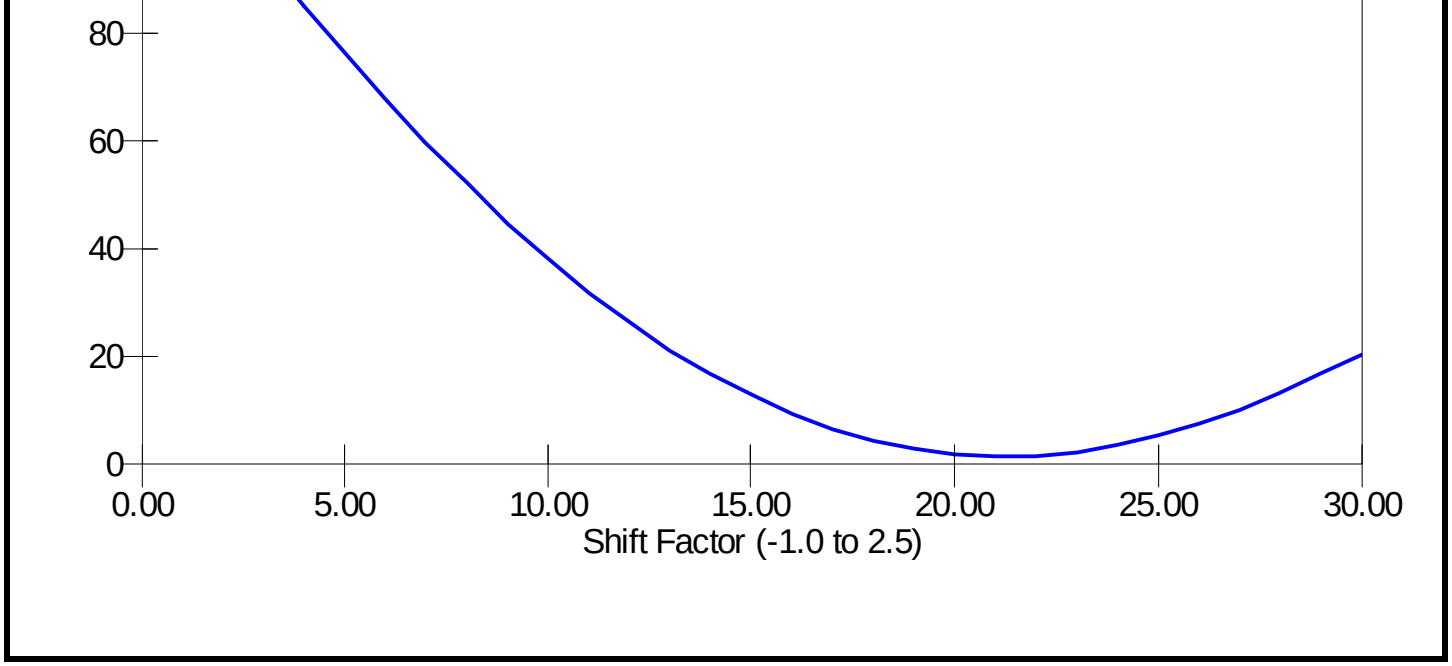




Chi Square for Spectral Fit Plot

SHOP





HNGS-BA (Hostile-environment Natural Gamma-ray Sonde) Calibration - Run Run 1: PEX-ECS-HNGS-ZAIT

Primary Equipment :

HNGS Sonde Element	HNGS-BA	152

Auxiliary Equipment :

Hostile Natural Gamma Ray Cartridge	HNGC-B	250
HNGS Housing Element	HEH-K	149
		120
Housing for the HNGC	HNGH-A	87

HNGS Background and Na22 Set Point Determination - Detector 1 Check

Master (EEPROM): 16:59:01 04-Jun-2012 Before (Measured): 10:39:52 05-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Na 511 Peak Location		Master			38.508	
		Before	40.000	37.500	38.496	42.500
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.012	-----
		After-Before	-----	-----	-----	-----
Na 511 Peak Resolution	%	Master			15.346	
		Before	15.500	12.000	15.704	19.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.358	-----
		After-Before	-----	-----	-----	-----
High Voltage DAC Value	V	Master			1055.372	
		Before	1150.000	850.000	1044.625	1600.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-10.747	-----
		After-Before	-----	-----	-----	-----
Na 1785 Peak Location		Master			139.553	
		Before	142.650	135.000	139.239	150.300
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.314	-----
		After-Before	-----	-----	-----	-----
Na 1785 Peak Resolution	%	Master			8.611	
		Before	8.500	7.000	10.602	11.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	1.991	-----
		After-Before	-----	-----	-----	-----
Temperature	degF	Master	-----	-----	-----	-----
		Before	59.900	-20.002	81.515	140.000
		After	-----	-----	-----	-----

		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Na Count Rate	CPS	Master	45.000	10.000	13.468	100.000
		Before	45.000	10.000	13.809	100.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.341	-----
		After-Before	-----	-----	-----	-----

HNGS Background and Na22 Set Point Determination - Detector 2 Check

Master (EEPROM): 16:59:01 04-Jun-2012 Before (Measured): 10:39:52 05-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Na 511 Peak Location		Master			39.805	
		Before	40.000	37.500	39.754	42.500
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.051	-----
		After-Before	-----	-----	-----	-----
Na 511 Peak Resolution	%	Master			15.647	
		Before	15.500	12.000	15.426	19.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.221	-----
		After-Before	-----	-----	-----	-----
High Voltage DAC Value	V	Master			997.071	
		Before	1150.000	850.000	990.433	1600.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-6.638	-----
		After-Before	-----	-----	-----	-----
Na 1785 Peak Location		Master			141.093	
		Before	142.650	135.000	140.330	150.300
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-0.763	-----
		After-Before	-----	-----	-----	-----
Na 1785 Peak Resolution	%	Master			8.929	
		Before	8.500	7.000	10.902	11.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	1.973	-----
		After-Before	-----	-----	-----	-----
Temperature	degF	Master	-----	-----	-----	-----
		Before	59.900	-20.002	82.750	140.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Na Count Rate	CPS	Master	45.000	10.000	13.516	100.000
		Before	45.000	10.000	13.708	100.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.192	-----
		After-Before	-----	-----	-----	-----

HNGS Background and Na22 Set Point Determination - Ratio of Detector 1 to Detector 2

Master (EEPROM): 16:59:01 04-Jun-2012 Before (Measured): 10:39:52 05-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Coincidence Count Rate Ratio		Master			0.994	
		Before	1.000	0.950	0.997	1.050
		After	-----	-----	-----	-----
		Before-Master	-----	-----	0.003	-----
		After-Before	-----	-----	-----	-----

HNGS Background and Na22 Set Point Determination - Detector 1 Calibration

Master (EEPROM): 16:59:01 04-Jun-2012 Before (Measured): 10:39:52 05-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Th Peak Location - 0		Master	209.630	201.000	207.341	218.250
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Th Peak Resolution - 0	%	Master	7.000	5.000	7.165	9.000
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

Background Count Rate	CPS	Master			205.588	
		Before	142.500	10.000	257.355	265.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	51.767	-----
		After-Before	-----	-----	-----	-----
Gain Ratio - 0		Master	1.000	0.940	1.024	1.060
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

HNGS Background and Na22 Set Point Determination - Detector 2 Calibration

Master (EEPROM): 16:59:01 04-Jun-2012 Before (Measured): 10:39:52 05-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Th Peak Location - 0		Master	209.630	201.000	208.021	218.250
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Th Peak Resolution - 0	%	Master	7.000	5.000	6.707	9.000
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----
Background Count Rate	CPS	Master			212.923	
		Before	142.500	10.000	260.256	265.000
		After	-----	-----	-----	-----
		Before-Master	-----	-----	47.333	-----
		After-Before	-----	-----	-----	-----
Gain Ratio - 0		Master	1.000	0.940	0.995	1.060
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

HNGS Background and Na22 Set Point Determination - Detector 1 Calibration

Master (EEPROM): 16:59:01 04-Jun-2012 Before (Measured): 10:39:52 05-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Na 511 Peak Set Point - 0		Master	40.000	38.000	40.000	43.500
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

HNGS Background and Na22 Set Point Determination - Detector 2 Calibration

Master (EEPROM): 16:59:01 04-Jun-2012 Before (Measured): 10:39:52 05-Jul-2012 After:

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Na 511 Peak Set Point - 0		Master	40.000	38.000	41.000	43.500
		Before	-----	-----	-----	-----
		After	-----	-----	-----	-----
		Before-Master	-----	-----	-----	-----
		After-Before	-----	-----	-----	-----

LEH-QT (Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor) Calibration - Run Run 1: PEX-ECS-HNGS-ZAIT

Primary Equipment :

Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor LEH-QT

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: Fidelity Exploration and Production

Schlumberger

Well: V Bar 1 Cattle 1 ST2

Field: Wildcat

County: Sioux

Country: USA

Platform Express

Triple Combo