Exhibit No. 3540
Worldwide Court Reporters, Inc.

Schlumberger

Company: BP Exploration & Production, Inc.

Well: OCS-G 32306 001 ST00BP01
Field: Mississippi Canyon 252
Waters: Gulf of Mexico State: Louisiana

RT Scanner
Hostile Litho Density Tool
Compensated Neutron (5" = 100' MD)

Waters: Gulf of Mexico
Field: Mississippi Canyon 252
Location: Surf Loc: X=1202798.33 & Y=1043
Well: OCS-G 32306 001 ST00BP01
Company: BP Exploration & Production, Inc.

								Run 1
								Run 2
								Run 3
								Run 4
Logging Date	10-Apr-2010							
Run Number	R1D1							
Depth Driller	18360 ft							
Schlumberger Depth	18280 ft							
Bottom Log Interval	18270 ft							
Top Log Interval	17157 ft							
Casing Driller Size @ Depth	9.875 in @ 17168 ft	@	@	@	@	@	@	@
Casing Schlumberger	17157 ft							
Bit Size	9.875 in							
Type Fluid In Hole	Rheliant - Synthetic Based Mud							
MUD Density	14 lbm/gal							
MUD Viscosity	103 s							
MUD Fluid Loss	0 cm3							
MUD PH	0							
Source Of Sample	N/A							
RM @ Measured Temperature	@	@	@	@	@	@	@	@
RMF @ Measured Temperature	@	@	@	@	@	@	@	@
RMC @ Measured Temperature	@	@	@	@	@	@	@	@
Source RMF	N/A							
Source RMC	N/A							
RM @ MRT	@ 228	@	@	@	@	@	@	@
RMF @ MRT	@ 228	@	@	@	@	@	@	@
Maximum Recorded Temperatures	228 degF							
Time	228							
Circulation Stopped	10-Apr-2010							
Time	5:00							
Logger On Bottom	11-Apr-2010							
Time	2:19							
Unit Number	2082							
Location	Larose, Louisiana							
Recorded By	Victor Emanuel / Ryan O'Toole							
Witnessed By	Galina Skripnikova / Stuart Lacy							

Surf Loc: X=1202798.33 & Y=10431619.79
Permanent Datum: Sea Level
Log Measured From: Drill Floor
Drilling Measured From: Drill Floor

Elev.: K.B. 75.00 ft
G.L. -4992.00 ft
D.F. 75.00 ft
Elev.: 0.00 ft
75.00 ft above Perm. Datum

LOCATION
API Serial No. 608174116901
Latitude: 28 44' 17.304" N
Longitude: 88 21' 57.403" W
Rig: DW Horizon

FINAL PRINT

DEPTH SUMMARY LISTING

Date Created: 13-APR-2010 13:29:51

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-JA	Type:	TD-K	Type:	7-48Z US
Serial Number:	5048	Serial Number:	414	Serial Number:	709001
Calibration Date:	09-Sept-2009	Calibration Date:	22-Mar-2010	Length:	25600 FT
Calibrator Serial Number:	6009	Calibrator Serial Number:	334254		
Calibration Cable Type:	7-48Z US	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	-7	Calibration RMS:	15	Rig Type:	Offshore Floater with WMC
Wheel Correction 2:	-7	Calibration Peak Error:	27		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	666.50 FT
Rig Up Length At Bottom:	666.40 FT
Rig Up Length Correction:	0.10 FT
Stretch Correction:	11.00 FT
Tool Zero Check At Surface:	18.00 FT

Calibration Cable Type:	7-48Z US	Number of Calibration Points:	10	Conveyance Method:	Wireline
Wheel Correction 1:	-7	Calibration RMS:	15	Rig Type:	Offshore Floater with WMC
Wheel Correction 2:	-7	Calibration Peak Error:	27		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	666.50 FT
Rig Up Length At Bottom:	666.40 FT
Rig Up Length Correction:	0.10 FT
Stretch Correction:	11.00 FT
Tool Zero Check At Surface:	18.00 FT

Depth Control Remarks

1. Depth Control as per Schlumberger procedures.
2. Primary depth control device: Calibrated IDW.
3. Secondary depth control: Z-Chart.
4. Weak point selected: ECRD-F SN: 59 and ECRI-E SN: 639. LEH-QT Max safe pull 8000 lbs.
5. Capstan, 36" sheaves and TD-L used to pull 19,000 lbs on a 7-48 ASUS cable.
6. Capstan unit: WDDC-BB SN 01.

OTHER SERVICES1	OTHER SERVICES2
OS1: CMR-ECS-HNGS	OS1:
OS2: DUAL OBMI-DSI	OS2:
OS3: MDT	OS3:
OS4: MSCT	OS4:
OS5: VSI	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
1-This log is the primary depth control reference for this well.	
2-All parameters and presentations as per client's request.	
3-Matrix: Sandstone; Matrix Density: 2.65; FNUM: 0.62	
4-Temperatures recorded with three thermometers located in the logging head: 228, 228, 228 Deg F.	
5-Logging speed 1800 ft/hr.	
6-Repeat pass done from 18280 ft to 18000 ft.	
7-Well drilled with a 8.5" bit and a 9.875" under reamer located 134 ft above the bit.	
8-Tool run as per tool sketch with three 1.5" standoffs on the ZAIT and a bowspring on the CNL. Tool run with a hole finder.	
9-Data quality could be affected due to borehole conditions: washouts and over-pulls.	
10-It was not possible to reach TD due to borehole conditions and the client requested to start logging from 18280 ft.	

Thank you for choosing Schlumberger Oilfield Services

Larose shop: (985) 693-3161

Your Crew today ES-06: John Moore, Milton Johnson and Jorge Saldana

RUN 1		RUN 2	
SERVICE ORDER #:	B073-00052	SERVICE ORDER #:	
PROGRAM VERSION:	17C0-154	PROGRAM VERSION:	
FLUID LEVEL:	0 ft	FLUID LEVEL:	

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

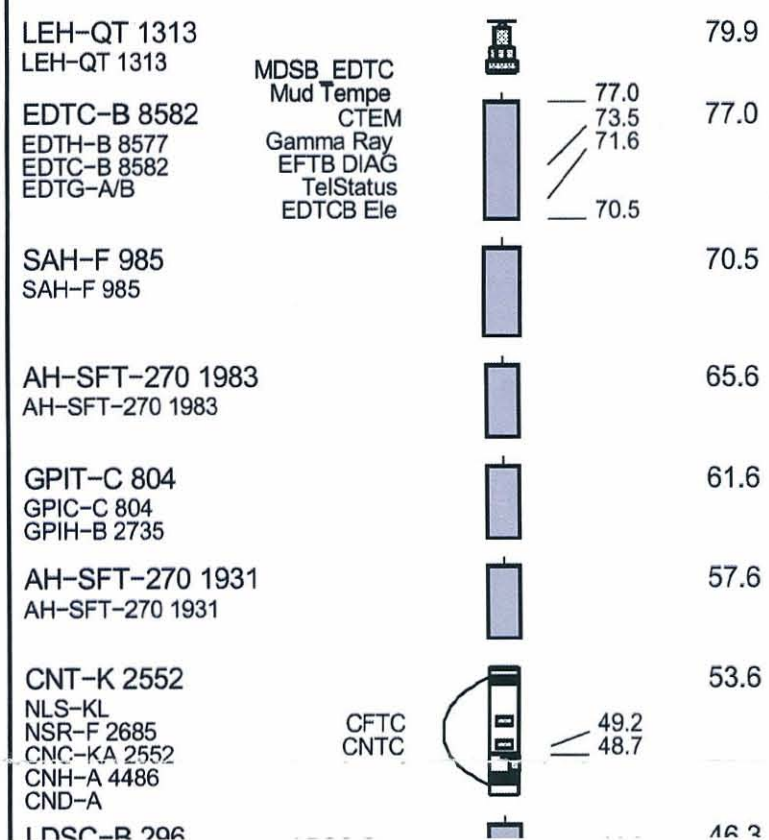
EQUIPMENT DESCRIPTION

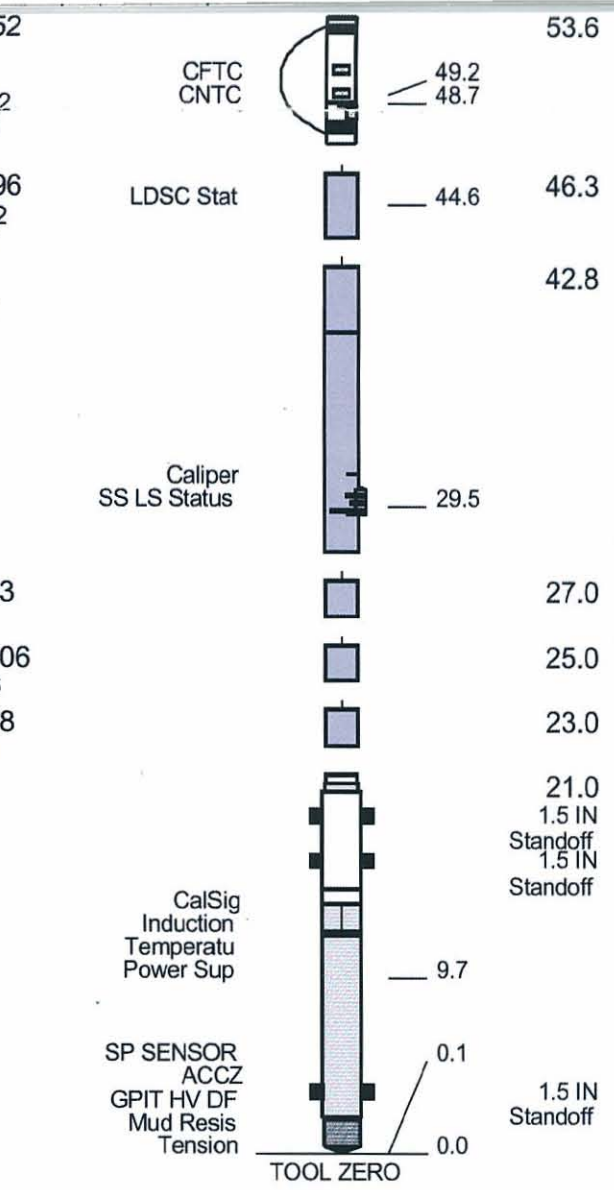
RUN 1 RUN 2

SURFACE EQUIPMENT

NCT-B
CNB-AB
NCS-VB 4487
WITM (EDTS)-A

DOWNHOLE EQUIPMENT





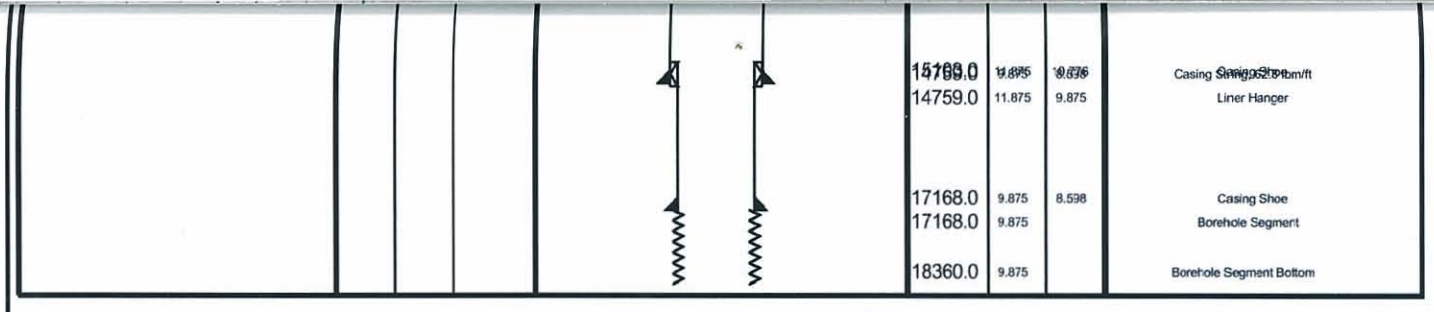
MAXIMUM STRING DIAMETER 6.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Client: BP Exploration & Production, Inc.
Well: OCS-G 32306 001 ST00BP01
Field: Mississippi Canyon 252
State: Gulf of Mexico
Country: US

Rig Name: DW Horizon
Reference Datum: Rotary Table
Elevation: 75.0 ft

Drawing Date: 4/11/2010
API #: 608174116900

Production String	(in) OD	(in) ID	(ft) MD	Well Schematic	(ft) MD	(in) OD	(in) ID	Casing String
Kelly Bushing Elevation			75.0					
Derrick Floor Elevation			75.0					
Mean Sea Level			0.0					
					0.0	36.000		Casing String
					5221.0	36.000		Casing Shoe
					5264.0	28.000		Casing String
					5264.0	16.000	14.924	Casing String
					5264.0	36.000	28.000	Liner Hanger
					5227.0	22.000	16.000	Liner Hanger
					6217.0	28.000		Casing Shoe
					7499.0	18.000		Casing String
					7973.0	22.000		Casing Shoe
					7489.0	22.000	18.000	Liner Hanger
					8969.0	18.000		Casing Shoe
					11458.0	16.000	12.422	Casing String
					11153.0	16.000	13.625	Liner Hanger
					12805.0	13.625	10.772	Casing String
					12803.0	13.625	11.875	Liner Hanger
					14799.0	11.875	9.875	Casing String 62.8 lbm/ft
					14759.0	11.875	9.875	Liner Hanger



Schlumberger

MAIN PASS 5"=100' MD

MAXIS Field Log

Company: BP GOM Deepwater - Macondo | Well: OCS-G 32306 001 ST00BP01

Input DLIS Files

	AIT_LDL_CNL_070LUP	FN:72		12-Apr-2010 01:24	18288.0 FT	16804.5 FT

Output DLIS Files

DEFAULT	AIT_LDL_CNL_033PUP	FN:32	PRODUCER	13-Apr-2010 10:11	18286.5 FT	16804.0 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 605.25 F3

Cement Volume = 305.00 F3 (assuming 7.00 IN casing O.D.)

Computed from 18280.0 FT to 17157.0 FT using data channel(s) LCAL

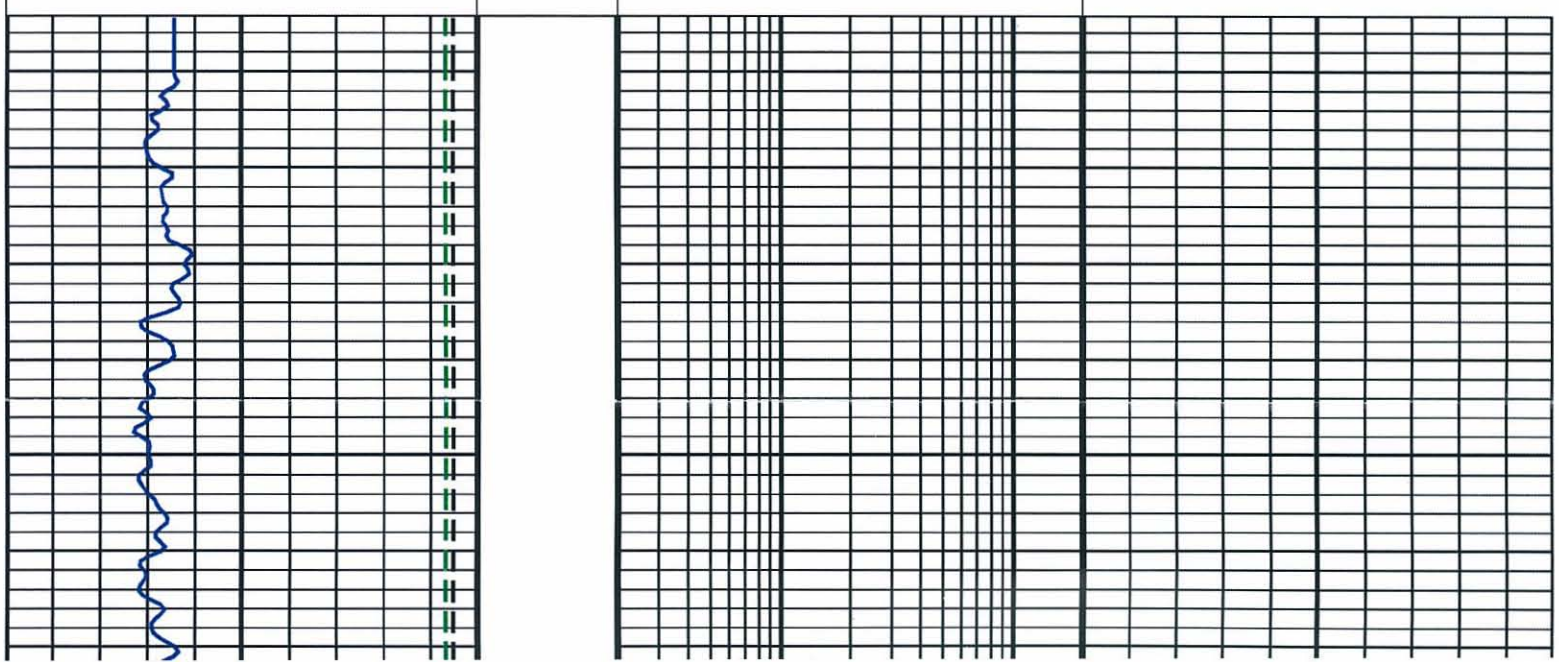
OP System Version: 17C0-154

ZAIT-DB	SPC-3859-ZAIT	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	CNT-K	17C0-154
GPIT-C	SRPC-3971-Q1_2010_OP17	EDTC-B	SKK-3882-EDTCB

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3
- Time Mark Every 60 S

	AIT 90 Inch Investigation (AT90) 0.2 (OHMM) 20	
Tension (TENS) 16000 (LBF) 6000	AIT 60 Inch Investigation (AT60) 0.2 (OHMM) 20	Area From HLDS_BULK_DENSITY to NPOR
HLDS Caliper (LCAL) 8 (IN) 18	Tool/Tot. Drag From D3T to STIA AIT 30 Inch Investigation (AT30) 0.2 (OHMM) 20	Alpha Processed Neutron Porosity (NPOR) 60 (PU) 0
Gamma Ray (GR_EDTC) 0 (GAPI) 150	Cable Drag From STIA to STIT AIT 20 Inch Investigation (AT20) 0.2 (OHMM) 20	HLDS Bulk Density Correction (DRH) 0.1 (G/C3) -0.9
Calibrated Downhole Force (CDF) 10000 (LBF) 0	Stuck Stretch (STIT) 0 (F) 50 AIT 10 Inch Investigation (AT10) 0.2 (OHMM) 20	HLDS Bulk Density (RHOM) 1.65 (G/C3) 2.65



16900

17000

17100

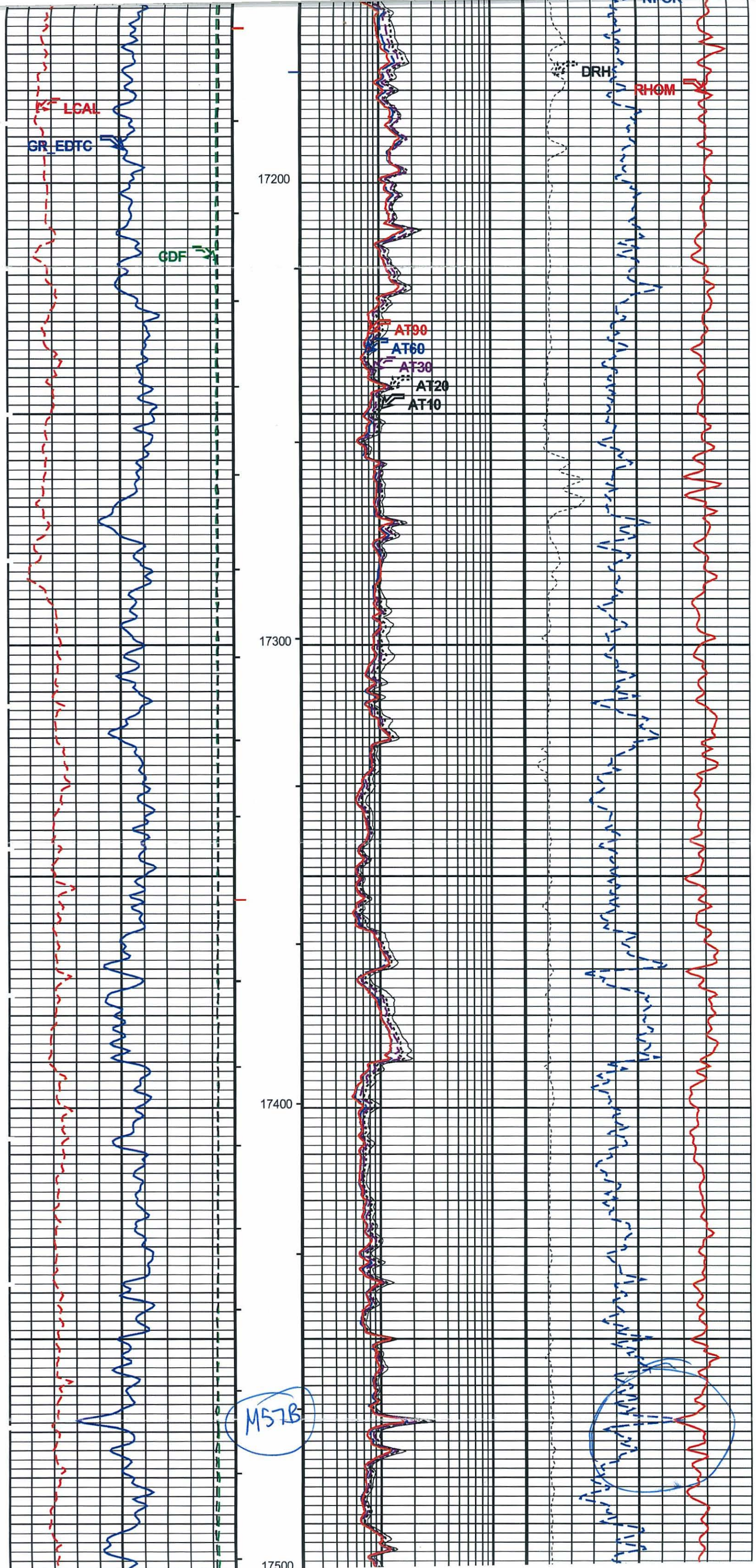
TENS

-Casing-

NPOR

DRH

RHOM


LCAL
GR_EDTC
CDF
DRH
RHOM
AT90
AT60
AT30
AT20
AT10
17200
17300
17400
17500
M57B

17500

17600

17700

TENS

STIA

STIT

M52

LCAL

GR_EDTC

CDF

17800

M56A

NPOR

DRH

RHOM

AT90

AT30

AT20

AT10

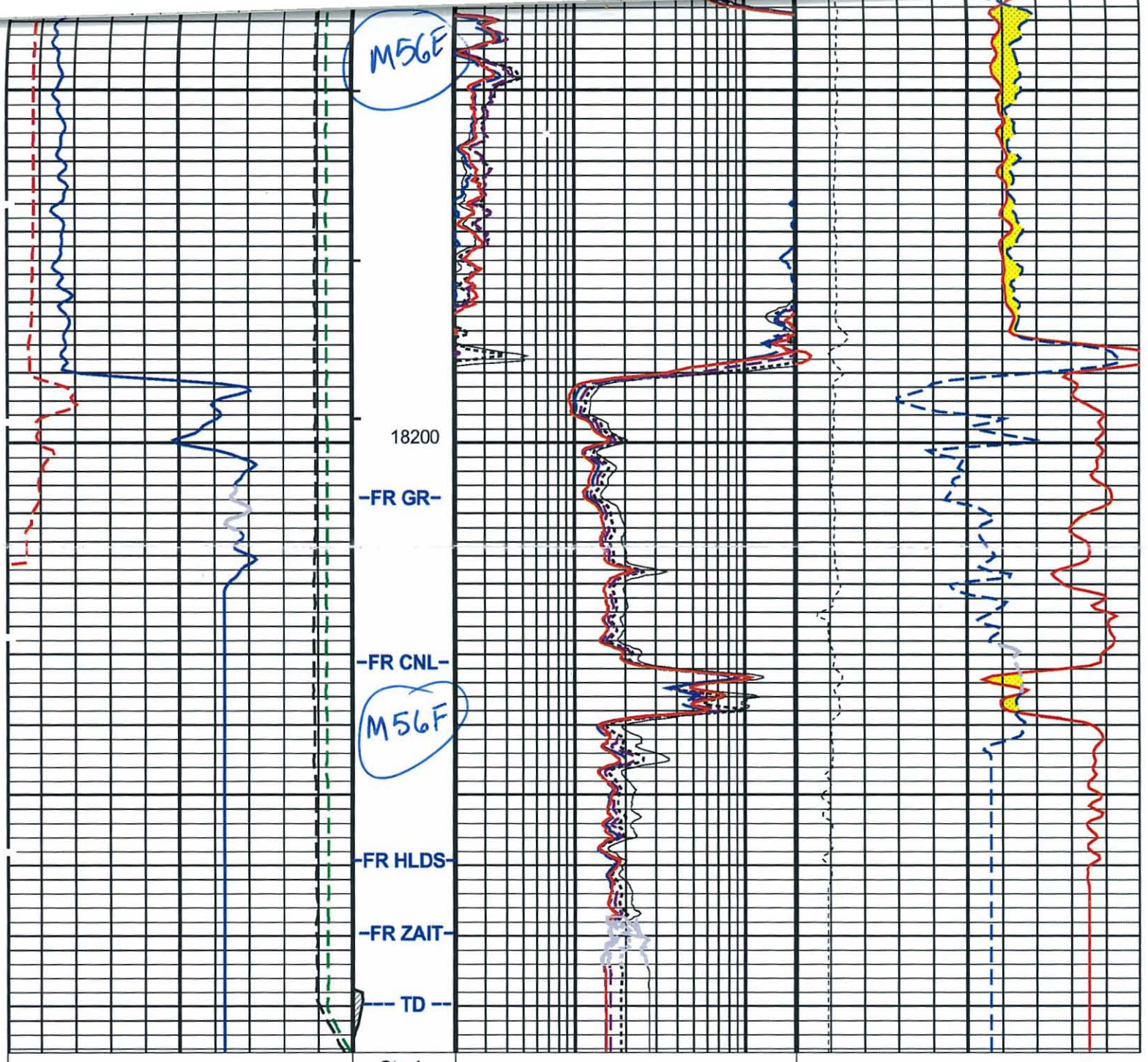
17900

18000

M56D

18100

M56E



Calibrated Downhole Force (CDF) 10000 (LBF) 0	Stuck Stretch (STIT) 0 (F) 50	AIT 10 Inch Investigation (AT10) 0.2 (OHMM) 20
HLDS Bulk Density (RHOM) 1.65 (G/C3) 2.65		
Gamma Ray (GR_EDTC) 0 (GAPI) 150	Cable Drag From STIA to STIT	AIT 20 Inch Investigation (AT20) 0.2 (OHMM) 20
HLDS Bulk Density Correction (DRH) 0.1 (G/C3) -0.9		
HLDS Caliper (LCAL) 8 (IN) 18	Tool/Tot. Drag From D3T to STIA	AIT 30 Inch Investigation (AT30) 0.2 (OHMM) 20
Alpha Processed Neutron Porosity (NPOR) 60 (PU) 0		
Tension (TENS) 16000 (LBF) 6000		AIT 60 Inch Investigation (AT60) 0.2 (OHMM) 20
Area From HLDS_BULK_DENSITY to NPOR		
		AIT 90 Inch Investigation (AT90) 0.2 (OHMM) 20

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

ZAIT Answer Product Processing Summary. Data taken with tool # 40

***** Bhole Correction *****

Tool is run in ECCENTERED mode with a tool stand-off of 1.50 IN. Bit Size is 9.88 IN.

***** Input Selections to ZAIT Answer Product processing *****

Caliper (GCSE): LCAL Mud Resistivity (GRSE): GEN_9 Temperature (GTSE): GRADIENT_FROM_BOTTOM Porosity (FPHI): DP

***** Other parameters used by ZAIT Answer Product processing *****

Mud Sample Resistivity (RMS)	-50000.000 OHMM	Mud Sample Temperature (MST)	-50000.000 DEGF
Form Factor Exponent (FEXP)	2.150	Form Factor Numerator (FNUM)	0.620
Mud Filtrate Sample Resistivity (RMFS)	-50000.000 OHMM	Mud Filtrate Sample Temperature (MFST)	-50000.000 DEGF
Resitivity Connate Water (RW)	1.000 OHMM		

***** ZAIT Answer Product processing control parameters *****

Playback Mode: NORMAL

Parameters

DLIS Name	Description	Value	
	ZAIT-DB: 3-D Array Induction Tool - ZAIT-DB		
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	No	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	FT
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
ARFV	Array Induction Radial Profiling Code Version Number	701	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	228	DEGF
FEXP	Form Factor Exponent	2.15	
FNUM	Form Factor Numerator	0.62	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal		

GCSE	Generalized Caliper Selection		LCAL	
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection		CHART_GEN_9	
GTSE	Generalized Temperature Selection		GRADIENT_FROM_BOTTOM	
MATR	Rock Matrix for Neutron Porosity Corrections		SANDSTONE	
SHT	Surface Hole Temperature		85	DEGF
TRI1DV	3D 1D Code Version Number		0	
TRIBHM	3D Induction Borehole Correction Mode		21_ComputeOBMPlusDipNormal	
TRIBHV	Array Induction Borehole Correction Code Version Number		20100	
TRIRSV	3D Induction Response Set Version		00.10.24.00	
TRIRT	3D Rotation Selector		NorTH	
TRISTA	3D Tool Standoff		1.5	IN
HLDS: Hostile Litho-Density Sonde				
DHC	Density Hole Correction		BS	
DPPM	Density Porosity Processing Mode		HIRS	
FD	Fluid Density		1	G/C3
LATC	HLDS Activation Correction		ON	
MDEN	Matrix Density		2.65	G/C3
CNT-K: Compensated Neutron - K				
BHFL	Borehole Fluid Type		OIL	
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)		228	DEGF
BSCO	Borehole Salinity Correction Option		NO	
CCCO	Casing & Cement Thickness Correction Option		NO	
DPPM	Density Porosity Processing Mode		HIRS	
FSAL	Formation Salinity		26000	PPM
FSCO	Formation Salinity Correction Option		NO	
GCSE	Generalized Caliper Selection		LCAL	
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection		CHART_GEN_9	
GTSE	Generalized Temperature Selection		GRADIENT_FROM_BOTTOM	
HSCO	Hole Size Correction Option		YES	
MATR	Rock Matrix for Neutron Porosity Corrections		SANDSTONE	
MCCO	Mud Cake Correction Option		NO	
MCOR	Mud Correction		BARI	
MWCO	Mud Weight Correction Option		NO	
PTCO	Pressure/Temperature Correction Option		NO	
SDAT	Standoff Data Source		SOCN	
SHT	Surface Hole Temperature		85	DEGF
SOCN	Standoff Distance		0.5	IN
SOCO	Standoff Correction Option		NO	
EDTC-B: Enhanced DTS Cartridge				
BHFL	Borehole Fluid Type		OIL	
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)		228	DEGF
BSCO	Borehole Salinity Correction Option		NO	
CCCO	Casing & Cement Thickness Correction Option		NO	
DPPM	Density Porosity Processing Mode		HIRS	
FSCO	Formation Salinity Correction Option		NO	
GCSE	Generalized Caliper Selection		LCAL	
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection		CHART_GEN_9	
GTSE	Generalized Temperature Selection		GRADIENT_FROM_BOTTOM	
HSCO	Hole Size Correction Option		YES	
MATR	Rock Matrix for Neutron Porosity Corrections		SANDSTONE	
MCCO	Mud Cake Correction Option		NO	
MCOR	Mud Correction		BARI	
MWCO	Mud Weight Correction Option		NO	
PTCO	Pressure/Temperature Correction Option		NO	
SDAT	Standoff Data Source		SOCN	
SHT	Surface Hole Temperature		85	DEGF
SOCN	Standoff Distance		0.5	IN
SOCO	Standoff Correction Option		NO	
DIR: Directional Survey Computation				
SPVD	TVD of Starting Point		0	FT
TIMD	Along-hole depth of Tie-in Point		17136	FT
TIVD	TVD of Tie-in Point		17125	FT
HOLEV: Integrated Hole/Cement Volume				
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)		228	DEGF
FCD	Future Casing (Outer) Diameter		7	IN
GCSE	Generalized Caliper Selection		LCAL	
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection		CHART_GEN_9	
GTSE	Generalized Temperature Selection		GRADIENT_FROM_BOTTOM	
HVCS	Integrated Hole Volume Caliper Selection		LCAL	
MATR	Rock Matrix for Neutron Porosity Corrections		SANDSTONE	
SHT	Surface Hole Temperature		85	DEGF
STI: Stuck Tool Indicator				
LBFR	Trigger for MAXIS First Reading Label		TDL	
STKT	STI Stuck Threshold		2.5	FT
TDD	Total Depth - Driller		18360.00	FT
TDL	Total Depth - Logger		18280.00	FT
System and Miscellaneous				
BS	Bit Size		9.875	IN
BSAL	Borehole Salinity		26000.00	PPM
CSIZ	Current Casing Size		9.875	IN
CWEI	Casing Weight		62.80	LB/F
DO	Depth Offset for Playback		-1.0	FT
FLEV	Fluid Level		0.00	FT
MST	Mud Sample Temperature		-50000.00	DEGF
PP	Playback Processing		NORMAL	
RMFS	Resistivity of Mud Filtrate Sample		-50000.0000	OHMM
TD	Total Depth		18280	FT

Format: TCOM Vertical Scale: 5" per 100' Graphics File Created: 13-Apr-2010 10:11

OP System Version: 17C0-154

ZAIT-DB	SPC-3859-ZAIT	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	CNT-K	17C0-154
GPIT-C	SRPC-3971-Q1_2010_OP17	EDTC-B	SKK-3882-EDTCB

Input DLIS Files

	AIT_LDL_CNL_070LUP	FN:72	12-Apr-2010 01:24	18288.0 FT	16804.5 FT

Output DLIS Files

DEFAULT	AIT_LDL_CNL_033PUP	FN:32	PRODUCER	13-Apr-2010 10:11

Schlumberger

REPEAT PASS 5"=100'

MAXIS Field Log

Company: BP GOM Deepwater – Macondo | Well: OCS-G 32306 001 ST00BP01

Input DLIS Files

	AIT_LDL_CNL_069LUP	FN:70		12-Apr-2010 01:24	18282.0 FT	17744.5 FT

Output DLIS Files

DEFAULT	AIT_LDL_CNL_034PUP	FN:33	PRODUCER	13-Apr-2010 10:27	18292.5 FT	17755.0 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 235.98 F3

Cement Volume = 95.55 F3 (assuming 7.00 IN casing O.D.)

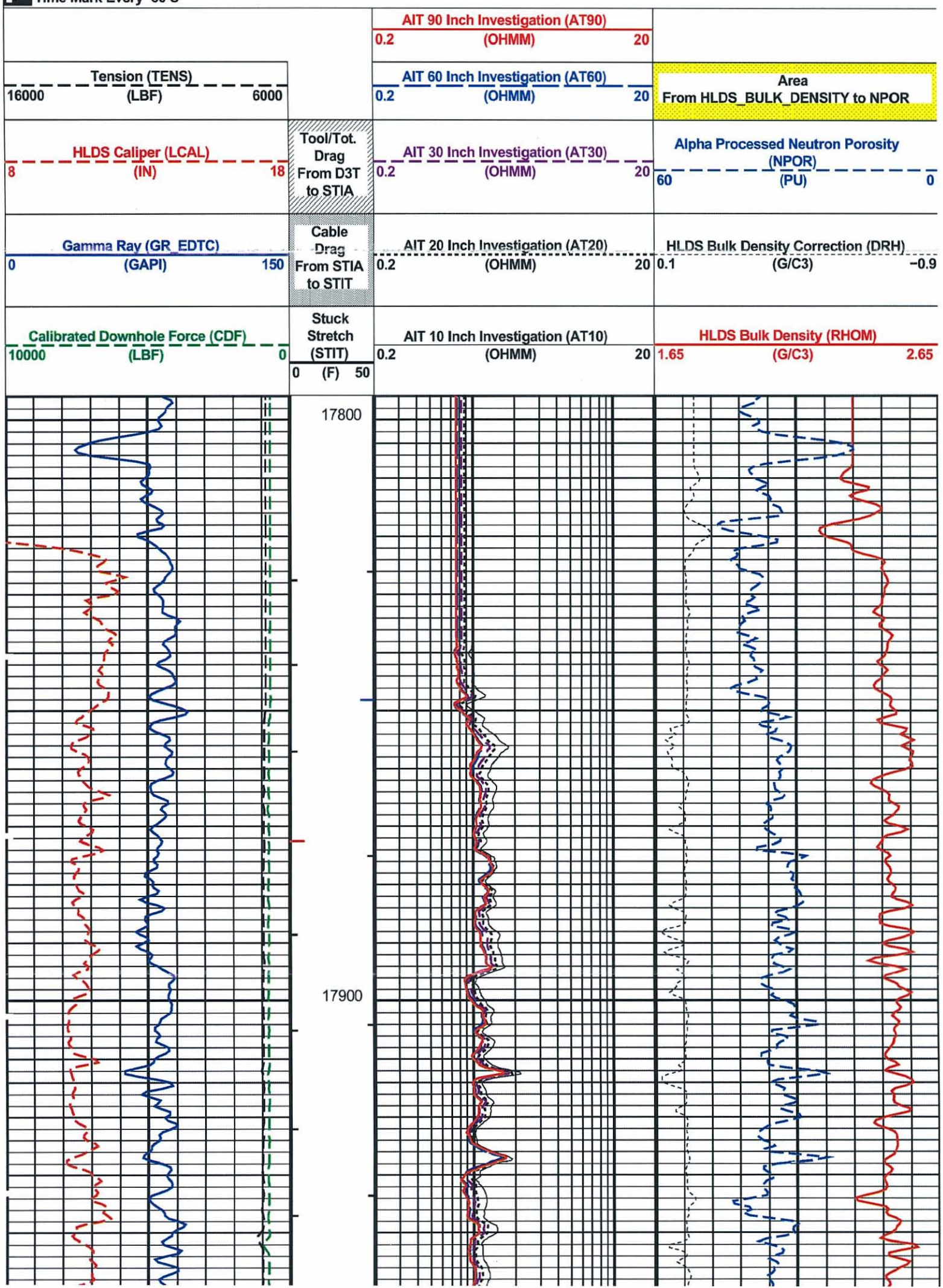
Computed from 18280.0 FT to 17755.0 FT using data channel(s) LCAL

OP System Version: 17C0-154

ZAIT-DB	SPC-3859-ZAIT	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	CNT-K	17C0-154
GPIT-C	SRPC-3971-Q1_2010_OP17	EDTC-B	SKK-3882-EDTCB

PIP SUMMARY

Integrated Hole Volume Minor Pip Every 10 F3
Integrated Hole Volume Major Pip Every 100 F3
Integrated Cement Volume Minor Pip Every 10 F3
Integrated Cement Volume Major Pip Every 100 F3
Time Mark Every 60 S



18000

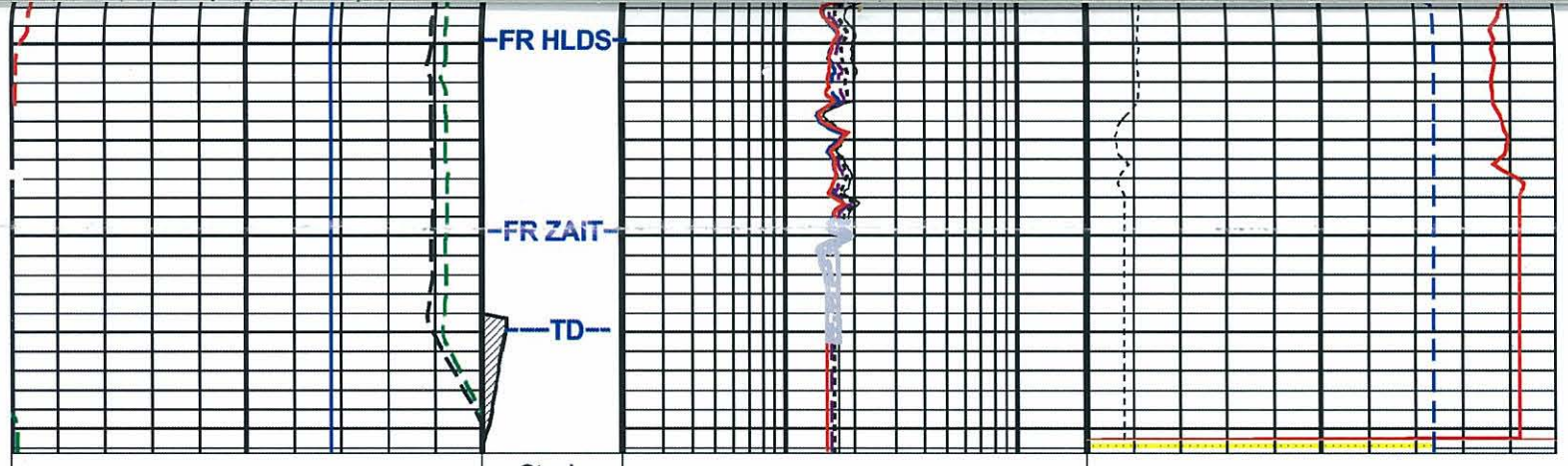
18100

18200

-FR GR-

-FR CNL-

-FR HLDS-



Calibrated Downhole Force (CDF)	Stuck Stretch (STIT)	AIT 10 Inch Investigation (AT10)	HLDS Bulk Density (RHOM)
10000 (LBF) 0	0 (F) 50	0.2 (OHMM) 20	1.65 (G/C3) 2.65
Gamma Ray (GR_EDTC)	**Cable Drag From STIA to STIT**	**AIT 20 Inch Investigation (AT20)**	**HLDS Bulk Density Correction (DRH)**
0 (GAPI) 150		0.2 (OHMM) 20	0.1 (G/C3) −0.9
HLDS Caliper (LCAL)	**Tool/Tot. Drag From D3T to STIA**	**AIT 30 Inch Investigation (AT30)**	**Alpha Processed Neutron Porosity (NPOR)**
8 (IN) 18		0.2 (OHMM) 20	60 (PU) 0
Tension (TENS)		**AIT 60 Inch Investigation (AT60)**	**Area From HLDS_BULK_DENSITY to NPOR**
16000 (LBF) 6000		0.2 (OHMM) 20	
		AIT 90 Inch Investigation (AT90)	
		0.2 (OHMM) 20	

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

ZAIT Answer Product Processing Summary. Data taken with tool # 40

***** Bhole Correction *****

Tool is run in ECCENTERED mode with a tool stand-off of 1.50 IN. Bit Size is 9.88 IN.

***** Input Selections to ZAIT Answer Product processing *****

Caliper (GCSE): LCAL Mud Resistivity (GRSE): GEN_9 Temperature (GTSE): GRADIENT_FROM_BOTTOM Porosity (FPHI): DP

***** Other parameters used by ZAIT Answer Product processing *****

Mud Sample Resistivity (RMS)	−50000.000 OHMM	Mud Sample Temperature (MST)	−50000.000 DEGF
Form Factor Exponent (FEXP)	2.150	Form Factor Numerator (FNUM)	0.620
Mud Filtrate Sample Resistivity (RMFS)	−50000.000 OHMM	Mud Filtrate Sample Temperature (MFST)	−50000.000 DEGF
Resitivity Connate Water (RW)	1.000 OHMM		

***** ZAIT Answer Product processing control parameters *****

Playback Mode: NORMAL

Parameters

DLIS Name	Description	Value	
	ZAIT-DB: 3-D Array Induction Tool - ZAIT-DB		
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACDE	Array Induction Casing Detection Enable	No	
ACSED	Array Induction Casing Shoe Estimated Depth	−50000	FT
AFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
ARFV	Array Induction Radial Profiling Code Version Number	701	
ARPV	Array Induction Radial Parametrization Code Version Number	232	
ATRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	228	DEGF
FEXP	Form Factor Exponent	2.15	
FNUM	Form Factor Numerator	0.62	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	85	DEGF
TRI1DV	3D 1D Code Version Number	0	
TRIBHM	3D Induction Borehole Correction Mode	21_ComputeOBMPlusDipNormal	
TRIBHV	Array Induction Borehole Correction Code Version Number	20100	
TRIRSV	3D Induction Response Set Version	00.10.24.00	
TRIRT	3D Rotation Selector	NorTH	
TRISTA	3D Tool Standoff	1.5	IN
	HLDS: Hostile Litho-Density Sonde		
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
MDEN	Matrix Density	2.65	G/C3
	CNT-K: Compensated Neutron - K		
BHFL	Borehole Fluid Type	OIL	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	228	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	26000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF

MCCO		Mud Cake Correction Option	NO	
MCOR		Mud Correction	BARI	
MWCO		Mud Weight Correction Option	NO	
PTCO		Pressure/Temperature Correction Option	NO	
SDAT		Standoff Data Source	SOCN	
SHT		Surface Hole Temperature	85	DEGF
SOCN		Standoff Distance	0.5	IN
SOCO		Standoff Correction Option	NO	
	EDTC-B: Enhanced DTS Cartridge			
BHFL		Borehole Fluid Type	OIL	
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	228	DEGF
BSCO		Borehole Salinity Correction Option	NO	
CCCO		Casing & Cement Thickness Correction Option	NO	
DPPM		Density Porosity Processing Mode	HIRS	
FSCO		Formation Salinity Correction Option	NO	
GCSE		Generalized Caliper Selection	LCAL	
GDEV		Average Angular Deviation of Borehole from Normal	0	DEG
GGRD		Geothermal Gradient	0.01	DF/F
GRSE		Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE		Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
HSCO		Hole Size Correction Option	YES	
MATR		Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO		Mud Cake Correction Option	NO	
MCOR		Mud Correction	BARI	
MWCO		Mud Weight Correction Option	NO	
PTCO		Pressure/Temperature Correction Option	NO	
SDAT		Standoff Data Source	SOCN	
SHT		Surface Hole Temperature	85	DEGF
SOCN		Standoff Distance	0.5	IN
SOCO		Standoff Correction Option	NO	
	DIR: Directional Survey Computation			
SPVD		TVD of Starting Point	0	FT
TIMD		Along-hole depth of Tie-in Point	17136	FT
TIVD		TVD of Tie-in Point	17125	FT
	HOLEV: Integrated Hole/Cement Volume			
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	228	DEGF
FCD		Future Casing (Outer) Diameter	7	IN
GCSE		Generalized Caliper Selection	LCAL	
GDEV		Average Angular Deviation of Borehole from Normal	0	DEG
GGRD		Geothermal Gradient	0.01	DF/F
GRSE		Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE		Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
HVCS		Integrated Hole Volume Caliper Selection	LCAL	
MATR		Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT		Surface Hole Temperature	85	DEGF
	STI: Stuck Tool Indicator			
LBFR		Trigger for MAXIS First Reading Label	TDL	
STKT		STI Stuck Threshold	2.5	FT
TDD		Total Depth - Driller	18360.00	FT
TDL		Total Depth - Logger	18280.00	FT
	System and Miscellaneous			
BS		Bit Size	9.875	IN
BSAL		Borehole Salinity	26000.00	PPM
CSIZ		Current Casing Size	9.875	IN
CWEI		Casing Weight	62.80	LB/F
DO		Depth Offset for Playback	10.0	FT
FLEV		Fluid Level	0.00	FT
MST		Mud Sample Temperature	-50000.00	DEGF
PP		Playback Processing	NORMAL	
RMFS		Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
TD		Total Depth	18280	FT

Format: TCOM Vertical Scale: 5" per 100' Graphics File Created: 13-Apr-2010 10:27

OP System Version: 17C0-154

ZAIT-DB	SPC-3859-ZAIT	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	CNT-K	17C0-154
GPIT-C	SRPC-3971-Q1_2010_OP17	EDTC-B	SKK-3882-EDTCB

Input DLIS Files

	AIT_LDL_CNL_069LUP	FN:70	12-Apr-2010 01:24	18282.0 FT	17744.5 FT

Output DLIS Files

DEFAULT	AIT_LDL_CNL_034PUP	FN:33	PRODUCER	13-Apr-2010 10:27

Schlumberger

CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
3-D Array Induction Tool - ZAIT-DB Wellsite Calibration - Electronics Calibration Check - Thru Cal Mag. & Phase							
Master: 8-Mar-2010 14:22 Before: 9-Apr-2010 15:29 After: 11-Apr-2010 5:04							
Thru Cal Magnitude - 0	0	1.473	1.472	1.474	0.001917	N/A	MM/M
Thru Cal Magnitude - 1	0	1.467	1.463	1.471	0.007550	N/A	MM/M
Thru Cal Magnitude - 2	0	1.476	1.474	1.506	0.03139	N/A	MM/M
Thru Cal Magnitude - 3	0	3.387	3.383	3.388	0.005362	N/A	MM/M
Thru Cal Magnitude - 4	0	3.371	3.362	3.381	0.01828	N/A	MM/M
Thru Cal Magnitude - 5	0	3.392	3.388	3.461	0.07306	N/A	MM/M
Thru Cal Magnitude - 6	0	2.722	2.722	2.723	0.001283	N/A	MM/M
Thru Cal Magnitude - 7	0	2.709	2.704	2.716	0.01174	N/A	MM/M
Thru Cal Magnitude - 8	0	2.724	2.724	2.780	0.05589	N/A	MM/M
Thru Cal Magnitude - 9	0	1.883	1.883	1.864	-0.01946	N/A	MM/M
Thru Cal Magnitude - 10	0	1.875	1.874	1.857	-0.01659	N/A	MM/M
Thru Cal Magnitude - 11	0	1.904	1.903	1.892	-0.01097	N/A	MM/M
Thru Cal Magnitude - 12	0	3.532	3.528	3.534	0.005630	N/A	MM/M
Thru Cal Magnitude - 13	0	3.515	3.506	3.525	0.01870	N/A	MM/M
Thru Cal Magnitude - 14	0	3.536	3.533	3.609	0.07567	N/A	MM/M
Thru Cal Magnitude - 15	0	3.028	3.027	2.996	-0.03068	N/A	MM/M
Thru Cal Magnitude - 16	0	3.014	3.012	2.985	-0.02612	N/A	MM/M
Thru Cal Magnitude - 17	0	3.061	3.059	3.042	-0.01709	N/A	MM/M
Thru Cal Magnitude - 18	0	0.9335	0.9327	0.9340	0.001301	N/A	MM/M

Thru Cal Magnitude - 14	0	3.556	3.533	3.609	0.07567	N/A	MM/M
Thru Cal Magnitude - 15	0	3.028	3.027	2.996	-0.03068	N/A	MM/M
Thru Cal Magnitude - 16	0	3.014	3.012	2.985	-0.02612	N/A	MM/M
Thru Cal Magnitude - 17	0	3.061	3.059	3.042	-0.01709	N/A	MM/M
Thru Cal Magnitude - 18	0	0.9335	0.9327	0.9340	0.001301	N/A	MM/M
Thru Cal Magnitude - 19	0	0.9308	0.9287	0.9335	0.004802	N/A	MM/M
Thru Cal Magnitude - 20	0	0.9370	0.9363	0.9562	0.01990	N/A	MM/M
Thru Cal Magnitude - 21	0	4.009	4.010	3.967	-0.04325	N/A	MM/M
Thru Cal Magnitude - 22	0	3.991	3.990	3.953	-0.03710	N/A	MM/M
Thru Cal Magnitude - 23	0	4.053	4.052	4.027	-0.02530	N/A	MM/M
Thru Cal Magnitude - 24	0	1.359	1.357	1.360	0.002467	N/A	MM/M
Thru Cal Magnitude - 25	0	1.355	1.352	1.359	0.007527	N/A	MM/M
Thru Cal Magnitude - 26	0	1.364	1.363	1.392	0.02953	N/A	MM/M
Thru Cal Magnitude - 27	0	4.008	4.010	3.967	-0.04323	N/A	MM/M
Thru Cal Magnitude - 28	0	3.991	3.990	3.953	-0.03712	N/A	MM/M
Thru Cal Magnitude - 29	0	4.053	4.052	4.027	-0.02519	N/A	MM/M
Thru Cal Magnitude - 30	0	1.359	1.357	1.360	0.002442	N/A	MM/M
Thru Cal Magnitude - 31	0	1.355	1.352	1.359	0.007542	N/A	MM/M
Thru Cal Magnitude - 32	0	1.364	1.363	1.392	0.02952	N/A	MM/M
Thru Cal Magnitude - 33	0	1.161	1.162	1.149	-0.01298	N/A	MM/M
Thru Cal Magnitude - 34	0	1.160	1.160	1.149	-0.01131	N/A	MM/M
Thru Cal Magnitude - 35	0	1.179	1.180	1.172	-0.007721	N/A	MM/M
Thru Cal Magnitude - 36	0	1.620	1.619	1.621	0.001118	N/A	MM/M
Thru Cal Magnitude - 37	0	1.615	1.612	1.620	0.007149	N/A	MM/M
Thru Cal Magnitude - 38	0	1.626	1.626	1.659	0.03334	N/A	MM/M
Thru Cal Magnitude - 39	0	1.395	1.397	1.381	-0.01573	N/A	MM/M
Thru Cal Magnitude - 40	0	1.394	1.394	1.381	-0.01353	N/A	MM/M
Thru Cal Magnitude - 41	0	1.417	1.418	1.408	-0.009311	N/A	MM/M
Thru Cal Magnitude - 42	0	2.340	2.340	2.341	0.001446	N/A	MM/M
Thru Cal Magnitude - 43	0	2.333	2.330	2.340	0.01019	N/A	MM/M
Thru Cal Magnitude - 44	0	2.349	2.349	2.397	0.04799	N/A	MM/M
Thru Cal Phase - 0	0	-11.05	-10.74	-8.887	1.851	N/A	DEG
Thru Cal Phase - 1	0	-6.940	-6.527	-5.203	1.324	N/A	DEG
Thru Cal Phase - 2	0	0.5558	1.374	6.341	4.968	N/A	DEG
Thru Cal Phase - 3	0	-11.55	-11.12	-9.169	1.948	N/A	DEG
Thru Cal Phase - 4	0	-7.426	-6.898	-5.475	1.422	N/A	DEG
Thru Cal Phase - 5	0	0.06900	1.000	6.064	5.063	N/A	DEG
Thru Cal Phase - 6	0	-9.047	-8.595	-6.611	1.983	N/A	DEG
Thru Cal Phase - 7	0	-4.927	-4.381	-2.926	1.455	N/A	DEG
Thru Cal Phase - 8	0	2.552	3.500	8.591	5.091	N/A	DEG
Thru Cal Phase - 9	0	-7.186	-6.634	-5.330	1.303	N/A	DEG
Thru Cal Phase - 10	0	-3.985	-3.397	-2.610	0.7867	N/A	DEG
Thru Cal Phase - 11	0	-0.3212	0.4558	3.081	2.626	N/A	DEG
Thru Cal Phase - 12	0	-11.07	-10.73	-8.936	1.796	N/A	DEG
Thru Cal Phase - 13	0	-6.953	-6.529	-5.211	1.318	N/A	DEG
Thru Cal Phase - 14	0	0.5783	1.398	6.346	4.948	N/A	DEG
Thru Cal Phase - 15	0	-7.207	-6.647	-5.347	1.301	N/A	DEG
Thru Cal Phase - 16	0	-4.000	-3.407	-2.623	0.7845	N/A	DEG
Thru Cal Phase - 17	0	-0.3436	0.4363	3.059	2.623	N/A	DEG
Thru Cal Phase - 18	0	-11.09	-10.72	-8.919	1.803	N/A	DEG
Thru Cal Phase - 19	0	-6.976	-6.516	-5.202	1.315	N/A	DEG
Thru Cal Phase - 20	0	0.5483	1.406	6.346	4.940	N/A	DEG
Thru Cal Phase - 21	0	-8.067	-7.472	-6.020	1.452	N/A	DEG
Thru Cal Phase - 22	0	-4.857	-4.228	-3.289	0.9389	N/A	DEG
Thru Cal Phase - 23	0	-1.193	-0.3818	2.403	2.785	N/A	DEG
Thru Cal Phase - 24	0	-11.58	-11.14	-9.243	1.893	N/A	DEG
Thru Cal Phase - 25	0	-7.469	-6.942	-5.527	1.415	N/A	DEG
Thru Cal Phase - 26	0	0.05147	0.9654	6.015	5.049	N/A	DEG
Thru Cal Phase - 27	0	-8.065	-7.468	-6.014	1.454	N/A	DEG
Thru Cal Phase - 28	0	-4.858	-4.229	-3.290	0.9392	N/A	DEG
Thru Cal Phase - 29	0	-1.202	-0.3927	2.392	2.784	N/A	DEG
Thru Cal Phase - 30	0	-11.59	-11.16	-9.253	1.903	N/A	DEG
Thru Cal Phase - 31	0	-7.464	-6.938	-5.523	1.416	N/A	DEG
Thru Cal Phase - 32	0	0.04984	0.9663	6.012	5.046	N/A	DEG
Thru Cal Phase - 33	0	-6.591	-5.975	-4.518	1.457	N/A	DEG
Thru Cal Phase - 34	0	-3.403	-2.767	-1.822	0.9447	N/A	DEG
Thru Cal Phase - 35	0	0.2376	1.056	3.850	2.794	N/A	DEG
Thru Cal Phase - 36	0	-9.055	-8.599	-6.669	1.930	N/A	DEG
Thru Cal Phase - 37	0	-4.943	-4.409	-2.957	1.452	N/A	DEG
Thru Cal Phase - 38	0	2.581	3.503	8.590	5.088	N/A	DEG
Thru Cal Phase - 39	0	-6.603	-5.973	-4.519	1.454	N/A	DEG
Thru Cal Phase - 40	0	-3.415	-2.768	-1.826	0.9418	N/A	DEG
Thru Cal Phase - 41	0	0.2296	1.055	3.845	2.790	N/A	DEG
Thru Cal Phase - 42	0	-9.066	-8.588	-6.656	1.933	N/A	DEG
Thru Cal Phase - 43	0	-4.942	-4.374	-2.929	1.445	N/A	DEG
Thru Cal Phase - 44	0	2.563	3.524	8.599	5.075	N/A	DEG

3-D Array Induction Tool - ZAIT-DB Wellsite Calibration - Electronics Calibration Check - Auxilliary
Master: 8-Mar-2010 14:22 Before: 9-Apr-2010 15:29 After: 11-Apr-2010 5:04

Array Induction SPA Plus	0.8360	0.8420	0.8421	0.8419	-0.0001907	N/A	V
Array Induction SPA Zero	0	-0.001295	-0.001303	-0.001305	-1.923E-006	N/A	V
Array Induction Temperature Pl	0.9798	0.9874	0.9878	0.9873	-0.0004773	N/A	V
Array Induction Temperature Ze	0	-0.001313	-0.001307	-0.001314	-7.854E-006	N/A	V
Array Induction CalSig Plus	5.000	5.010	5.011	5.010	-0.001015	N/A	V
Array Induction CalSig Zero	0	-0.01227	-0.01224	-0.01209	0.0001552	N/A	V
Array Induction Volt Plus	5.000	5.010	5.011	5.010	-0.001015	N/A	V
Array Induction Volt Zero	0	-0.01227	-0.01224	-0.01209	0.0001552	N/A	V

3-D Array Induction Tool - ZAIT-DB Wellsite Calibration - Field Check Sonde Error
Master: 8-Mar-2010 14:22

R Sonde Error Check - 0	0	42.86	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 1	0	-48.36	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 2	0	11.79	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 3	0	26.65	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 4	0	40.95	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 5	0	1.281	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 6	0	12.23	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 7	0	20.43	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 8	0	0.2021	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 9	0	25.47	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 10	0	122.3	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 11	0	3.583	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 12	0	-43.68	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 13	0	22.60	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 14	0	25.80	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 15	0	-28.03	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 16	0	-0.8778	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 17	0	0.3771	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 18	0	21.94	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 19	0	41.35	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 20	0	-1.309	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 21	0	-19.96	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 22	0	20.91	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 23	0	5.404	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 24	0	-11.39	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 25	0	-0.1843	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 26	0	0.1410	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 27	0	24.28	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 28	0	-14.54	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 29	0	2.952	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 30	0	12.79	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 31	0	15.14	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 32	0	20.51	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 33	0	10.65	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 34	0	38.03	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 35	0	-0.3365	N/A	N/A	N/A	N/A	MM/M

R Sonde Error Check - 29	0	2.952	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 30	0	12.79	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 31	0	15.14	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 32	0	20.51	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 33	0	10.65	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 34	0	38.03	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 35	0	−0.3365	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 36	0	30.50	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 37	0	0.1083	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 38	0	1.066	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 39	0	−0.2032	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 40	0	20.87	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 41	0	5.608	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 42	0	5.713	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 43	0	14.71	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 44	0	−0.1620	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 45	0	12.16	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 46	0	−5.857	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 47	0	3.121	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 48	0	3.605	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 49	0	10.88	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 50	0	4.774	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 51	0	0.6836	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 52	0	−0.8281	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 53	0	−0.3033	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 54	0	11.25	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 55	0	−0.5285	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 56	0	0.08572	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 57	0	−0.2277	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 58	0	11.22	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 59	0	2.411	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 60	0	0.8766	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 61	0	1.063	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 62	0	0.03168	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 63	0	3.173	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 64	0	7.615	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 65	0	2.270	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 66	0	−4.661	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 67	0	2.964	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 68	0	2.078	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 69	0	0.1594	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 70	0	1.147	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 71	0	−0.4942	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 72	0	2.926	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 73	0	1.132	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 74	0	0.1658	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 75	0	−0.6077	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 76	0	3.295	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 77	0	−0.07962	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 78	0	0.3616	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 79	0	0.001061	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 80	0	−0.1322	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 81	0	6.675	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 82	0	1.580	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 83	0	0.6850	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 84	0	−4.181	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 85	0	5.729	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 86	0	0.8323	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 87	0	1.151	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 88	0	1.027	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 89	0	−0.03957	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 90	0	6.517	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 91	0	−0.4015	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 92	0	−0.1593	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 93	0	0.3504	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 94	0	6.297	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 95	0	−0.6042	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 96	0	1.372	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 97	0	0.2894	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 98	0	0.1280	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 99	0	1.323	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 100	0	−1.307	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 101	0	1.127	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 102	0	0.6906	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 103	0	0.4833	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 104	0	−0.9209	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 105	0	1.930	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 106	0	1.554	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 107	0	−0.6398	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 108	0	0.8980	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 109	0	−0.4559	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 110	0	−0.2050	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 111	0	0.5483	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 112	0	0.7549	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 113	0	−0.8941	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 114	0	1.193	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 115	0	0.3376	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Check - 116	0	−0.4428	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 0	0	4838	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 1	0	−2546	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 2	0	−53.70	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 3	0	−55.58	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 4	0	−275.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 5	0	−15.62	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 6	0	−181.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 7	0	−573.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 8	0	11.93	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 9	0	−159.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 10	0	−1817	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 11	0	1286	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 12	0	1688	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 13	0	−154.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 14	0	214.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 15	0	1463	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 16	0	351.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 17	0	1.542	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 18	0	−72.28	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 19	0	−886.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 20	0	644.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 21	0	827.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 22	0	−78.73	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 23	0	111.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 24	0	729.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 25	0	183.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 26	0	1.329	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 27	0	211.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 28	0	369.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 29	0	−340.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 30	0	−341.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 31	0	196.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 32	0	−348.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 33	0	−355.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 34	0	−774.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 35	0	−2.702	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 36	0	112.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 37	0	186.5	N/A	N/A	N/A	N/A	MM/M

X Sonde Error Check - 31	0	196.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 32	0	-348.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 33	0	-355.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 34	0	-774.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 35	0	-2.702	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 36	0	112.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 37	0	186.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 38	0	-172.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 39	0	-173.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 40	0	110.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 41	0	-173.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 42	0	-181.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 43	0	-391.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 44	0	-1.289	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 45	0	-1.251	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 46	0	191.9	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 47	0	-57.85	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 48	0	-233.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 49	0	47.00	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 50	0	344.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 51	0	-34.15	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 52	0	252.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 53	0	-5.334	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 54	0	-3.212	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 55	0	95.07	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 56	0	-27.49	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 57	0	-116.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 58	0	17.23	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 59	0	175.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 60	0	-16.51	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 61	0	129.1	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 62	0	-3.361	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 63	0	40.41	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 64	0	-175.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 65	0	-70.86	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 66	0	162.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 67	0	45.87	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 68	0	-20.36	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 69	0	-22.64	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 70	0	-57.42	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 71	0	1.594	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 72	0	28.16	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 73	0	-85.98	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 74	0	-35.15	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 75	0	79.41	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 76	0	29.11	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 77	0	-10.55	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 78	0	-10.08	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 79	0	-28.08	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 80	0	0.8370	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 81	0	29.85	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 82	0	-178.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 83	0	-11.72	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 84	0	178.4	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 85	0	13.98	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 86	0	-41.94	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 87	0	10.77	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 88	0	-59.49	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 89	0	-5.026	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 90	0	7.640	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 91	0	-87.88	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 92	0	-4.692	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 93	0	87.78	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 94	0	-0.2984	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 95	0	-21.44	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 96	0	8.295	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 97	0	-28.61	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 98	0	-4.125	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 99	0	14.36	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 100	0	18.23	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 101	0	-27.36	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 102	0	-18.02	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 103	0	18.57	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 104	0	-7.898	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 105	0	-19.63	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 106	0	-26.98	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 107	0	3.109	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 108	0	9.235	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 109	0	10.45	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 110	0	-12.97	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 111	0	-10.76	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 112	0	11.61	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 113	0	-3.395	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 114	0	-10.92	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 115	0	-12.07	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Check - 116	0	2.615	N/A	N/A	N/A	N/A	MM/M
3-D Array Induction Tool - ZAIT-DB Master Calibration - Sonde Error Correction							
Master: 8-Mar-2010 14:22							
R Sonde Error Correction - 0	0	88.27	---	---	---	---	MM/M
R Sonde Error Correction - 1	0	820.5	---	---	---	---	MM/M
R Sonde Error Correction - 2	0	-1578	---	---	---	---	MM/M
R Sonde Error Correction - 3	0	-86.87	---	---	---	---	MM/M
R Sonde Error Correction - 4	0	214.4	---	---	---	---	MM/M
R Sonde Error Correction - 5	0	333.7	---	---	---	---	MM/M
R Sonde Error Correction - 6	0	-0.9921	---	---	---	---	MM/M
R Sonde Error Correction - 7	0	74.59	---	---	---	---	MM/M
R Sonde Error Correction - 8	0	86.21	---	---	---	---	MM/M
R Sonde Error Correction - 9	0	-596.3	---	---	---	---	MM/M
R Sonde Error Correction - 10	0	-171.8	---	---	---	---	MM/M
R Sonde Error Correction - 11	0	-45.84	---	---	---	---	MM/M
R Sonde Error Correction - 12	0	16.43	---	---	---	---	MM/M
R Sonde Error Correction - 13	0	-582.8	---	---	---	---	MM/M
R Sonde Error Correction - 14	0	102.9	---	---	---	---	MM/M
R Sonde Error Correction - 15	0	-12.95	---	---	---	---	MM/M
R Sonde Error Correction - 16	0	54.36	---	---	---	---	MM/M
R Sonde Error Correction - 17	0	109.0	---	---	---	---	MM/M
R Sonde Error Correction - 18	0	-352.9	---	---	---	---	MM/M
R Sonde Error Correction - 19	0	-56.27	---	---	---	---	MM/M
R Sonde Error Correction - 20	0	-11.34	---	---	---	---	MM/M
R Sonde Error Correction - 21	0	9.822	---	---	---	---	MM/M
R Sonde Error Correction - 22	0	-345.7	---	---	---	---	MM/M
R Sonde Error Correction - 23	0	27.66	---	---	---	---	MM/M
R Sonde Error Correction - 24	0	-3.710	---	---	---	---	MM/M
R Sonde Error Correction - 25	0	39.91	---	---	---	---	MM/M
R Sonde Error Correction - 26	0	28.97	---	---	---	---	MM/M
R Sonde Error Correction - 27	0	-562.4	---	---	---	---	MM/M
R Sonde Error Correction - 28	0	54.30	---	---	---	---	MM/M
R Sonde Error Correction - 29	0	-8.890	---	---	---	---	MM/M
R Sonde Error Correction - 30	0	-8.290	---	---	---	---	MM/M
R Sonde Error Correction - 31	0	-595.2	---	---	---	---	MM/M
R Sonde Error Correction - 32	0	57.16	---	---	---	---	MM/M
R Sonde Error Correction - 33	0	-3.952	---	---	---	---	MM/M
R Sonde Error Correction - 34	0	10.67	---	---	---	---	MM/M
R Sonde Error Correction - 35	0	101.8	---	---	---	---	MM/M
R Sonde Error Correction - 36	0	-575.8	---	---	---	---	MM/M

R Sonde Error Correction – 29	0	−8.890	--	--	--	--	MM/M
R Sonde Error Correction – 30	0	−8.290	--	--	--	--	MM/M
R Sonde Error Correction – 31	0	−595.2	--	--	--	--	MM/M
R Sonde Error Correction – 32	0	57.16	--	--	--	--	MM/M
R Sonde Error Correction – 33	0	−3.952	--	--	--	--	MM/M
R Sonde Error Correction – 34	0	10.67	--	--	--	--	MM/M
R Sonde Error Correction – 35	0	101.8	--	--	--	--	MM/M
R Sonde Error Correction – 36	0	−575.8	--	--	--	--	MM/M
R Sonde Error Correction – 37	0	15.75	--	--	--	--	MM/M
R Sonde Error Correction – 38	0	3.713	--	--	--	--	MM/M
R Sonde Error Correction – 39	0	3.807	--	--	--	--	MM/M
R Sonde Error Correction – 40	0	−604.4	--	--	--	--	MM/M
R Sonde Error Correction – 41	0	15.66	--	--	--	--	MM/M
R Sonde Error Correction – 42	0	14.21	--	--	--	--	MM/M
R Sonde Error Correction – 43	0	−3.028	--	--	--	--	MM/M
R Sonde Error Correction – 44	0	52.71	--	--	--	--	MM/M
R Sonde Error Correction – 45	0	−58.84	--	--	--	--	MM/M
R Sonde Error Correction – 46	0	3.286	--	--	--	--	MM/M
R Sonde Error Correction – 47	0	−18.18	--	--	--	--	MM/M
R Sonde Error Correction – 48	0	1.997	--	--	--	--	MM/M
R Sonde Error Correction – 49	0	−54.42	--	--	--	--	MM/M
R Sonde Error Correction – 50	0	18.37	--	--	--	--	MM/M
R Sonde Error Correction – 51	0	1.042	--	--	--	--	MM/M
R Sonde Error Correction – 52	0	11.06	--	--	--	--	MM/M
R Sonde Error Correction – 53	0	43.57	--	--	--	--	MM/M
R Sonde Error Correction – 54	0	−83.70	--	--	--	--	MM/M
R Sonde Error Correction – 55	0	0.7240	--	--	--	--	MM/M
R Sonde Error Correction – 56	0	−3.804	--	--	--	--	MM/M
R Sonde Error Correction – 57	0	1.687	--	--	--	--	MM/M
R Sonde Error Correction – 58	0	−78.27	--	--	--	--	MM/M
R Sonde Error Correction – 59	0	4.607	--	--	--	--	MM/M
R Sonde Error Correction – 60	0	1.882	--	--	--	--	MM/M
R Sonde Error Correction – 61	0	4.329	--	--	--	--	MM/M
R Sonde Error Correction – 62	0	28.41	--	--	--	--	MM/M
R Sonde Error Correction – 63	0	−37.14	--	--	--	--	MM/M
R Sonde Error Correction – 64	0	−14.20	--	--	--	--	MM/M
R Sonde Error Correction – 65	0	−4.511	--	--	--	--	MM/M
R Sonde Error Correction – 66	0	11.18	--	--	--	--	MM/M
R Sonde Error Correction – 67	0	−34.71	--	--	--	--	MM/M
R Sonde Error Correction – 68	0	4.949	--	--	--	--	MM/M
R Sonde Error Correction – 69	0	−0.3988	--	--	--	--	MM/M
R Sonde Error Correction – 70	0	3.621	--	--	--	--	MM/M
R Sonde Error Correction – 71	0	17.85	--	--	--	--	MM/M
R Sonde Error Correction – 72	0	−42.74	--	--	--	--	MM/M
R Sonde Error Correction – 73	0	−1.326	--	--	--	--	MM/M
R Sonde Error Correction – 74	0	−2.055	--	--	--	--	MM/M
R Sonde Error Correction – 75	0	2.007	--	--	--	--	MM/M
R Sonde Error Correction – 76	0	−40.57	--	--	--	--	MM/M
R Sonde Error Correction – 77	0	0.7916	--	--	--	--	MM/M
R Sonde Error Correction – 78	0	1.168	--	--	--	--	MM/M
R Sonde Error Correction – 79	0	0.4051	--	--	--	--	MM/M
R Sonde Error Correction – 80	0	15.07	--	--	--	--	MM/M
R Sonde Error Correction – 81	0	−58.14	--	--	--	--	MM/M
R Sonde Error Correction – 82	0	7.099	--	--	--	--	MM/M
R Sonde Error Correction – 83	0	−3.474	--	--	--	--	MM/M
R Sonde Error Correction – 84	0	−13.49	--	--	--	--	MM/M
R Sonde Error Correction – 85	0	−55.98	--	--	--	--	MM/M
R Sonde Error Correction – 86	0	4.337	--	--	--	--	MM/M
R Sonde Error Correction – 87	0	2.767	--	--	--	--	MM/M
R Sonde Error Correction – 88	0	2.118	--	--	--	--	MM/M
R Sonde Error Correction – 89	0	7.966	--	--	--	--	MM/M
R Sonde Error Correction – 90	0	−55.89	--	--	--	--	MM/M
R Sonde Error Correction – 91	0	0.1984	--	--	--	--	MM/M
R Sonde Error Correction – 92	0	−2.245	--	--	--	--	MM/M
R Sonde Error Correction – 93	0	0.6647	--	--	--	--	MM/M
R Sonde Error Correction – 94	0	−53.09	--	--	--	--	MM/M
R Sonde Error Correction – 95	0	−0.007349	--	--	--	--	MM/M
R Sonde Error Correction – 96	0	1.447	--	--	--	--	MM/M
R Sonde Error Correction – 97	0	0.6062	--	--	--	--	MM/M
R Sonde Error Correction – 98	0	11.43	--	--	--	--	MM/M
R Sonde Error Correction – 99	0	−80.78	--	--	--	--	MM/M
R Sonde Error Correction – 100	0	−9.530	--	--	--	--	MM/M
R Sonde Error Correction – 101	0	−2.462	--	--	--	--	MM/M
R Sonde Error Correction – 102	0	6.318	--	--	--	--	MM/M
R Sonde Error Correction – 103	0	−78.09	--	--	--	--	MM/M
R Sonde Error Correction – 104	0	−0.1067	--	--	--	--	MM/M
R Sonde Error Correction – 105	0	5.302	--	--	--	--	MM/M
R Sonde Error Correction – 106	0	4.123	--	--	--	--	MM/M
R Sonde Error Correction – 107	0	−10.42	--	--	--	--	MM/M
R Sonde Error Correction – 108	0	−82.06	--	--	--	--	MM/M
R Sonde Error Correction – 109	0	−0.8883	--	--	--	--	MM/M
R Sonde Error Correction – 110	0	−1.967	--	--	--	--	MM/M
R Sonde Error Correction – 111	0	1.796	--	--	--	--	MM/M
R Sonde Error Correction – 112	0	−80.02	--	--	--	--	MM/M
R Sonde Error Correction – 113	0	−1.353	--	--	--	--	MM/M
R Sonde Error Correction – 114	0	3.500	--	--	--	--	MM/M
R Sonde Error Correction – 115	0	0.8982	--	--	--	--	MM/M
R Sonde Error Correction – 116	0	−6.219	--	--	--	--	MM/M
X Sonde Error Correction – 0	0	5029	--	--	--	--	MM/M
X Sonde Error Correction – 1	0	3122	--	--	--	--	MM/M
X Sonde Error Correction – 2	0	272.4	--	--	--	--	MM/M
X Sonde Error Correction – 3	0	2760	--	--	--	--	MM/M
X Sonde Error Correction – 4	0	−2019	--	--	--	--	MM/M
X Sonde Error Correction – 5	0	247.8	--	--	--	--	MM/M
X Sonde Error Correction – 6	0	411.4	--	--	--	--	MM/M
X Sonde Error Correction – 7	0	−330.0	--	--	--	--	MM/M
X Sonde Error Correction – 8	0	22.52	--	--	--	--	MM/M
X Sonde Error Correction – 9	0	779.6	--	--	--	--	MM/M
X Sonde Error Correction – 10	0	2654	--	--	--	--	MM/M
X Sonde Error Correction – 11	0	880.4	--	--	--	--	MM/M
X Sonde Error Correction – 12	0	−931.8	--	--	--	--	MM/M
X Sonde Error Correction – 13	0	589.2	--	--	--	--	MM/M
X Sonde Error Correction – 14	0	781.9	--	--	--	--	MM/M
X Sonde Error Correction – 15	0	1724	--	--	--	--	MM/M
X Sonde Error Correction – 16	0	39.55	--	--	--	--	MM/M
X Sonde Error Correction – 17	0	−179.9	--	--	--	--	MM/M
X Sonde Error Correction – 18	0	−10.84	--	--	--	--	MM/M
X Sonde Error Correction – 19	0	1304	--	--	--	--	MM/M
X Sonde Error Correction – 20	0	434.4	--	--	--	--	MM/M
X Sonde Error Correction – 21	0	−462.2	--	--	--	--	MM/M
X Sonde Error Correction – 22	0	−118.3	--	--	--	--	MM/M
X Sonde Error Correction – 23	0	400.6	--	--	--	--	MM/M
X Sonde Error Correction – 24	0	825.1	--	--	--	--	MM/M
X Sonde Error Correction – 25	0	5.662	--	--	--	--	MM/M
X Sonde Error Correction – 26	0	−66.03	--	--	--	--	MM/M
X Sonde Error Correction – 27	0	−95.02	--	--	--	--	MM/M
X Sonde Error Correction – 28	0	−1082	--	--	--	--	MM/M
X Sonde Error Correction – 29	0	719.0	--	--	--	--	MM/M
X Sonde Error Correction – 30	0	403.0	--	--	--	--	MM/M
X Sonde Error Correction – 31	0	−101.5	--	--	--	--	MM/M
X Sonde Error Correction – 32	0	−253.1	--	--	--	--	MM/M
X Sonde Error Correction – 33	0	1123	--	--	--	--	MM/M
X Sonde Error Correction – 34	0	−310.7	--	--	--	--	MM/M
X Sonde Error Correction – 35	0	−162.8	--	--	--	--	MM/M
X Sonde Error Correction – 36	0	108.6	--	--	--	--	MM/M
X Sonde Error Correction – 37	0	−542.6					

X Sonde Error Correction - 34	0	-310.7	--	--	--	--	MM/M
X Sonde Error Correction - 35	0	-162.8	--	--	--	--	MM/M
X Sonde Error Correction - 36	0	108.6	--	--	--	--	MM/M
X Sonde Error Correction - 37	0	-542.6	--	--	--	--	MM/M
X Sonde Error Correction - 38	0	362.5	--	--	--	--	MM/M
X Sonde Error Correction - 39	0	203.4	--	--	--	--	MM/M
X Sonde Error Correction - 40	0	107.3	--	--	--	--	MM/M
X Sonde Error Correction - 41	0	-122.4	--	--	--	--	MM/M
X Sonde Error Correction - 42	0	564.3	--	--	--	--	MM/M
X Sonde Error Correction - 43	0	-156.8	--	--	--	--	MM/M
X Sonde Error Correction - 44	0	-49.22	--	--	--	--	MM/M
X Sonde Error Correction - 45	0	8.329	--	--	--	--	MM/M
X Sonde Error Correction - 46	0	-139.4	--	--	--	--	MM/M
X Sonde Error Correction - 47	0	338.2	--	--	--	--	MM/M
X Sonde Error Correction - 48	0	-80.20	--	--	--	--	MM/M
X Sonde Error Correction - 49	0	61.79	--	--	--	--	MM/M
X Sonde Error Correction - 50	0	170.6	--	--	--	--	MM/M
X Sonde Error Correction - 51	0	298.4	--	--	--	--	MM/M
X Sonde Error Correction - 52	0	-104.5	--	--	--	--	MM/M
X Sonde Error Correction - 53	0	-29.83	--	--	--	--	MM/M
X Sonde Error Correction - 54	0	-42.40	--	--	--	--	MM/M
X Sonde Error Correction - 55	0	-67.75	--	--	--	--	MM/M
X Sonde Error Correction - 56	0	167.0	--	--	--	--	MM/M
X Sonde Error Correction - 57	0	-38.88	--	--	--	--	MM/M
X Sonde Error Correction - 58	0	-15.46	--	--	--	--	MM/M
X Sonde Error Correction - 59	0	87.04	--	--	--	--	MM/M
X Sonde Error Correction - 60	0	142.9	--	--	--	--	MM/M
X Sonde Error Correction - 61	0	-49.94	--	--	--	--	MM/M
X Sonde Error Correction - 62	0	-18.02	--	--	--	--	MM/M
X Sonde Error Correction - 63	0	215.3	--	--	--	--	MM/M
X Sonde Error Correction - 64	0	353.4	--	--	--	--	MM/M
X Sonde Error Correction - 65	0	-6.491	--	--	--	--	MM/M
X Sonde Error Correction - 66	0	-483.0	--	--	--	--	MM/M
X Sonde Error Correction - 67	0	227.6	--	--	--	--	MM/M
X Sonde Error Correction - 68	0	106.0	--	--	--	--	MM/M
X Sonde Error Correction - 69	0	54.41	--	--	--	--	MM/M
X Sonde Error Correction - 70	0	-40.29	--	--	--	--	MM/M
X Sonde Error Correction - 71	0	42.58	--	--	--	--	MM/M
X Sonde Error Correction - 72	0	32.56	--	--	--	--	MM/M
X Sonde Error Correction - 73	0	177.4	--	--	--	--	MM/M
X Sonde Error Correction - 74	0	-2.684	--	--	--	--	MM/M
X Sonde Error Correction - 75	0	-240.2	--	--	--	--	MM/M
X Sonde Error Correction - 76	0	39.70	--	--	--	--	MM/M
X Sonde Error Correction - 77	0	53.58	--	--	--	--	MM/M
X Sonde Error Correction - 78	0	24.27	--	--	--	--	MM/M
X Sonde Error Correction - 79	0	-20.21	--	--	--	--	MM/M
X Sonde Error Correction - 80	0	5.775	--	--	--	--	MM/M
X Sonde Error Correction - 81	0	250.5	--	--	--	--	MM/M
X Sonde Error Correction - 82	0	-589.4	--	--	--	--	MM/M
X Sonde Error Correction - 83	0	58.75	--	--	--	--	MM/M
X Sonde Error Correction - 84	0	559.2	--	--	--	--	MM/M
X Sonde Error Correction - 85	0	229.2	--	--	--	--	MM/M
X Sonde Error Correction - 86	0	-30.23	--	--	--	--	MM/M
X Sonde Error Correction - 87	0	3.453	--	--	--	--	MM/M
X Sonde Error Correction - 88	0	67.46	--	--	--	--	MM/M
X Sonde Error Correction - 89	0	72.04	--	--	--	--	MM/M
X Sonde Error Correction - 90	0	56.15	--	--	--	--	MM/M
X Sonde Error Correction - 91	0	-298.1	--	--	--	--	MM/M
X Sonde Error Correction - 92	0	31.75	--	--	--	--	MM/M
X Sonde Error Correction - 93	0	283.8	--	--	--	--	MM/M
X Sonde Error Correction - 94	0	46.61	--	--	--	--	MM/M
X Sonde Error Correction - 95	0	-17.06	--	--	--	--	MM/M
X Sonde Error Correction - 96	0	0.7863	--	--	--	--	MM/M
X Sonde Error Correction - 97	0	33.63	--	--	--	--	MM/M
X Sonde Error Correction - 98	0	-2.425	--	--	--	--	MM/M
X Sonde Error Correction - 99	0	-29.78	--	--	--	--	MM/M
X Sonde Error Correction - 100	0	262.9	--	--	--	--	MM/M
X Sonde Error Correction - 101	0	74.60	--	--	--	--	MM/M
X Sonde Error Correction - 102	0	-315.0	--	--	--	--	MM/M
X Sonde Error Correction - 103	0	-21.74	--	--	--	--	MM/M
X Sonde Error Correction - 104	0	-10.25	--	--	--	--	MM/M
X Sonde Error Correction - 105	0	84.14	--	--	--	--	MM/M
X Sonde Error Correction - 106	0	-50.06	--	--	--	--	MM/M
X Sonde Error Correction - 107	0	20.40	--	--	--	--	MM/M
X Sonde Error Correction - 108	0	80.45	--	--	--	--	MM/M
X Sonde Error Correction - 109	0	135.5	--	--	--	--	MM/M
X Sonde Error Correction - 110	0	33.20	--	--	--	--	MM/M
X Sonde Error Correction - 111	0	-163.7	--	--	--	--	MM/M
X Sonde Error Correction - 112	0	86.15	--	--	--	--	MM/M
X Sonde Error Correction - 113	0	-4.703	--	--	--	--	MM/M
X Sonde Error Correction - 114	0	41.71	--	--	--	--	MM/M
X Sonde Error Correction - 115	0	-24.52	--	--	--	--	MM/M
X Sonde Error Correction - 116	0	43.04	--	--	--	--	MM/M

Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement
Master: 1-Apr-2010 9:55 Before: 9-Apr-2010 15:31 After: 11-Apr-2010 5:27

SS Cs Resolution Bkg	9.000	8.293	8.431	8.521	0.08934	1.800	%
LS Cs Resolution Bkg	9.000	8.057	8.014	8.143	0.1288	1.800	%
LSW1 Background	100.0	81.94	81.84	81.93	0.09607	3.000	CPS
LSW2 Background	100.0	74.28	74.59	75.69	1.091	3.000	CPS
LSW3 Background	200.0	171.1	168.2	171.9	3.707	6.000	CPS
LSW4 Background	250.0	211.3	208.4	210.1	1.674	7.500	CPS
LSW5 Background	600.0	467.8	468.9	467.5	-1.468	18.00	CPS
SSW1 Background	100.0	95.80	96.50	94.72	-1.781	3.000	CPS
SSW2 Background	200.0	170.0	169.2	170.1	0.8969	6.000	CPS
SSW3 Background	500.0	461.0	457.9	458.6	0.6721	15.00	CPS
SSW4 Background	270.0	241.1	241.3	240.3	-0.9767	8.100	CPS
SSW5 Background	200.0	176.3	176.2	176.5	0.3047	6.000	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement
Master: 1-Apr-2010 10:51

LSW1 Aluminum	600.0	588.0	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	883.7	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	1059	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	527.5	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	493.4	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2711	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	7376	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	10300	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	4203	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	513.2	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement
Master: 1-Apr-2010 10:41

LSW1 Iron	400.0	383.6	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	688.7	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	910.9	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	470.7	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	440.9	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1921	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5996	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	9191	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3735	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	434.4	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

SSW2 Iron	6800	5996	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	9191	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3735	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	434.4	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 9-Apr-2010 15:39							
HLDS Caliper Small Ring	8.000	N/A	11.04	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	15.06	N/A	N/A	N/A	IN
Compensated Neutron - K Wellsite Calibration - Zero Measurement							
Master: 1-Apr-2010 17:55 Before: 9-Apr-2010 15:30 After: 11-Apr-2010 5:25							
CNTC Background	32.60	32.60	32.96	31.46	-1.497	4.889	CPS
CFTC Background	26.07	26.07	26.46	26.85	0.3868	3.910	CPS
Compensated Neutron - K Master Calibration - Tank Measurement							
Master: 1-Apr-2010 18:03							
Thermal Near Corr. (Tank)	6031	5306	---	---	---	---	CPS
Thermal Far Corr. (Tank)	2793	2278	---	---	---	---	CPS
CNTC/CFTC (Tank)	2.159	2.329	---	---	---	---	
General Purpose Inclinometer Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 10-Apr-2010 23:12							
TEMPERATURE REFERENCE :	N/A	N/A	68	N/A	N/A	N/A	DEGF
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	5	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	863	N/A	N/A	N/A	
General Purpose Inclinometer Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 10-Apr-2010 23:12							
TEMPERATURE REFERENCE :	N/A	N/A	72	N/A	N/A	N/A	DEGF
YEAR OF CALIBRATION :	N/A	N/A	98	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	407	N/A	N/A	N/A	
Enhanced DTS Cartridge Wellsite Calibration - EDTC Accelerometer Calibration							
Before: 10-Apr-2010 23:12							
EDTC Z-Axis Acceleration	32.19	N/A	32.13	N/A	N/A	N/A	F/S2
Enhanced DTS Cartridge Wellsite Calibration - Detector Calibration							
Before: 9-Apr-2010 15:43							
Gamma Ray (Jig - Bkg)	147.7	N/A	147.7	N/A	N/A	13.43	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

3-D Array Induction Tool - ZAIT-DB / Equipment Identification

Primary Equipment:

Rm/SP Hole Finder Nose	AHHF - A		
3-D Array Induction Sonde	AXIS - A	40	40

Auxiliary Equipment:

3-D Array Induction Tool - ZAIT-DB Wellsite Calibration

Electronics Calibration Check - Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude MM/M	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	1.473		1.456	-11.05		0
	Before	1.472			-10.74		
	After	1.474			-8.887		
1	Master	1.467		1.456	-6.940		0
	Before	1.463			-6.527		
	After	1.471			-5.203		
2	Master	1.476		1.456	0.5558		0
	Before	1.474			1.374		
	After	1.506			6.341		
3	Master	3.387		3.352	-11.55		0
	Before	3.383			-11.12		
	After	3.388			-9.169		
4	Master	3.371		3.352	-7.426		0
	Before	3.362			-6.898		
	After	3.381			-5.475		
5	Master	3.392		3.352	0.06900		0
	Before	3.388			1.000		
	After	3.461			6.064		
6	Master	2.722		2.680	-9.047		0
	Before	2.722			-8.595		
	After	2.723			-6.611		
7	Master	2.709		2.680	-4.927		0
	Before	2.704			-4.381		
	After	2.716			-2.926		
8	Master	2.724		2.680	2.552		0
	Before	2.724			3.500		
	After	2.780			8.591		
9	Master	1.883		1.956	-7.186		0
	Before	1.883			-6.634		
	After	1.864			-5.330		
10	Master	1.875		1.956	-3.985		0
	Before	1.874			-3.397		
	After	1.857			-2.610		
11	Master	1.904		1.956	-0.3212		0
	Before	1.903			0.4558		

	After	1.857			−2.610	
11	Master	1.904		1.956	−0.3212	0
	Before	1.903			0.4558	
	After	1.892			3.081	
12	Master	3.532		3.537	−11.07	0
	Before	3.528			−10.73	
	After	3.534			−8.936	
13	Master	3.515		3.537	−6.953	0
	Before	3.506			−6.529	
	After	3.525			−5.211	
14	Master	3.536		3.537	0.5783	0
	Before	3.533			1.398	
	After	3.609			6.346	
15	Master	3.028		3.100	−7.207	0
	Before	3.027			−6.647	
	After	2.996			−5.347	
16	Master	3.014		3.100	−4.000	0
	Before	3.012			−3.407	
	After	2.985			−2.623	
17	Master	3.061		3.100	−0.3436	0
	Before	3.059			0.4363	
	After	3.042			3.059	
18	Master	0.9335		0.9359	−11.09	0
	Before	0.9327			−10.72	
	After	0.9340			−8.919	
19	Master	0.9308		0.9359	−6.976	0
	Before	0.9287			−6.516	
	After	0.9335			−5.202	
20	Master	0.9370		0.9359	0.5483	0
	Before	0.9363			1.406	
	After	0.9562			6.346	
21	Master	4.009		4.081	−8.067	0
	Before	4.010			−7.472	
	After	3.967			−6.020	
22	Master	3.991		4.081	−4.857	0
	Before	3.990			−4.228	
	After	3.953			−3.289	
23	Master	4.053		4.081	−1.193	0
	Before	4.052			−0.3818	
	After	4.027			2.403	
24	Master	1.359		1.362	−11.58	0
	Before	1.357			−11.14	
	After	1.360			−9.243	
25	Master	1.355		1.362	−7.469	0
	Before	1.352			−6.942	
	After	1.359			−5.527	
26	Master	1.364		1.362	0.05147	0
	Before	1.363			0.9654	
	After	1.392			6.015	
27	Master	4.008		4.081	−8.065	0
	Before	4.010			−7.468	
	After	3.967			−6.014	
28	Master	3.991		4.081	−4.858	0
	Before	3.990			−4.229	
	After	3.953			−3.290	
29	Master	4.053		4.081	−1.202	0
	Before	4.052			−0.3927	
	After	4.027			2.392	
30	Master	1.359		1.362	−11.59	0
	Before	1.357			−11.16	
	After	1.360			−9.253	
31	Master	1.355		1.362	−7.464	0
	Before	1.352			−6.938	
	After	1.359			−5.523	
32	Master	1.364		1.362	0.04984	0
	Before	1.363			0.9663	
	After	1.392			6.012	
	Master	1.161			−6.591	

	After	1.392			6.012		
33	Master	1.161		1.220	−6.591		0
	Before	1.162			−5.975		
	After	1.149			−4.518		
34	Master	1.160		1.220	−3.403		0
	Before	1.160			−2.767		
	After	1.149			−1.822		
35	Master	1.179		1.220	0.2376		0
	Before	1.180			1.056		
	After	1.172			3.850		
36	Master	1.620		1.635	−9.055		0
	Before	1.619			−8.599		
	After	1.621			−6.669		
37	Master	1.615		1.635	−4.943		0
	Before	1.612			−4.409		
	After	1.620			−2.957		
38	Master	1.626		1.635	2.581		0
	Before	1.626			3.503		
	After	1.659			8.590		
39	Master	1.395		1.464	−6.603		0
	Before	1.397			−5.973		
	After	1.381			−4.519		
40	Master	1.394		1.464	−3.415		0
	Before	1.394			−2.768		
	After	1.381			−1.826		
41	Master	1.417		1.464	0.2296		0
	Before	1.418			1.055		
	After	1.408			3.845		
42	Master	2.340		2.353	−9.066		0
	Before	2.340			−8.588		
	After	2.341			−6.656		
43	Master	2.333		2.353	−4.942		0
	Before	2.330			−4.374		
	After	2.340			−2.929		
44	Master	2.349		2.353	2.563		0
	Before	2.349			3.524		
	After	2.397			8.599		
		50.00 % (Minimum)	(Nominal)	150.0 % (Maximum)	Nom −85.00 (Minimum)	(Nominal)	Nom + 85.00 (Maximum)

Master: 8-Mar-2010 14:22 Before: 9-Apr-2010 15:29

After: 11-Apr-2010 5:04

3-D Array Induction Tool - ZAIT-DB Wellsite Calibration

Electronics Calibration Check - Auxilliary

Phase	Array Induction SPA Plus V	Value	Phase	Array Induction SPA Zero V	Value
Master		0.8420	Master		−0.001295
Before		0.8421	Before		−0.001303
After		0.8419	After		−0.001305
	0.7570 (Minimum) 0.8360 (Nominal) 0.9150 (Maximum)			−0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9874	Master		−0.001313
Before		0.9878	Before		−0.001307
After		0.9873	After		−0.001314
	0.8800 (Minimum) 0.9798 (Nominal) 1.076 (Maximum)			−0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction CalSig Plus V	Value	Phase	Array Induction CalSig Zero V	Value
Master		5.010	Master		−0.01227
Before		5.011	Before		−0.01224
After		5.010	After		−0.01209
	4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			−0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Phase	Array Induction Volt Plus V	Value	Phase	Array Induction Volt Zero V	Value
Master		5.010	Master		−0.01227
Before		5.011	Before		−0.01224
After		5.010	After		−0.01209
	4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			−0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

Master: 8-Mar-2010 14:22 Before: 9-Apr-2010 15:29

After: 11-Apr-2010 5:04

3-D Array Induction Tool - ZAIT-DB Wellsite Calibration

Field Check Sonde Error

Idx	Value	R Sonde Error Check MM/M	Value	X Sonde Error Check MM/M
0	42.86		4838	
	−1422 (Minimum) 0 (Nominal) 1422 (Maximum)		−33900 (Minimum) 0 (Nominal) 33900 (Maximum)	
1	−48.36		−2546	

	−1422 (Minimum)	0 (Nominal)	1422 (Maximum)		−33900 (Minimum)	0 (Nominal)	33900 (Maximum)	
1	−48.36				−2546			
	−1422 (Minimum)	0 (Nominal)	1422 (Maximum)		−33900 (Minimum)	0 (Nominal)	33900 (Maximum)	
2	11.79				−53.70			
	−58.96 (Minimum)	0 (Nominal)	58.96 (Maximum)		−512.8 (Minimum)	0 (Nominal)	512.8 (Maximum)	
3	26.65				−55.58			
	−278.1 (Minimum)	0 (Nominal)	278.1 (Maximum)		−14230 (Minimum)	0 (Nominal)	14230 (Maximum)	
4	40.95				−275.9			
	−278.1 (Minimum)	0 (Nominal)	278.1 (Maximum)		−14230 (Minimum)	0 (Nominal)	14230 (Maximum)	
5	1.281				−15.62			
	−22.33 (Minimum)	0 (Nominal)	22.33 (Maximum)		−215.0 (Minimum)	0 (Nominal)	215.0 (Maximum)	
6	12.23				−181.1			
	−93.73 (Minimum)	0 (Nominal)	93.73 (Maximum)		−5616 (Minimum)	0 (Nominal)	5616 (Maximum)	
7	20.43				−573.8			
	−93.73 (Minimum)	0 (Nominal)	93.73 (Maximum)		−5616 (Minimum)	0 (Nominal)	5616 (Maximum)	
8	0.2021				11.93			
	−12.70 (Minimum)	0 (Nominal)	12.70 (Maximum)		−58.98 (Minimum)	0 (Nominal)	58.98 (Maximum)	
9	25.47				−159.0			
	−38.43 (Minimum)	0 (Nominal)	38.43 (Maximum)		−525.3 (Minimum)	0 (Nominal)	525.3 (Maximum)	
10	122.3				−1817			
	−322.0 (Minimum)	0 (Nominal)	322.0 (Maximum)		−10300 (Minimum)	0 (Nominal)	10300 (Maximum)	
11	3.583				1286			
	−183.7 (Minimum)	0 (Nominal)	183.7 (Maximum)		−7941 (Minimum)	0 (Nominal)	7941 (Maximum)	
12	−43.68				1688			
	−322.0 (Minimum)	0 (Nominal)	322.0 (Maximum)		−10300 (Minimum)	0 (Nominal)	10300 (Maximum)	
13	22.60				−154.2			
	−38.43 (Minimum)	0 (Nominal)	38.43 (Maximum)		−525.3 (Minimum)	0 (Nominal)	525.3 (Maximum)	
14	25.80				214.6			
	−183.7 (Minimum)	0 (Nominal)	183.7 (Maximum)		−7941 (Minimum)	0 (Nominal)	7941 (Maximum)	
15	−28.03				1463			
	−131.2 (Minimum)	0 (Nominal)	131.2 (Maximum)		−10320 (Minimum)	0 (Nominal)	10320 (Maximum)	
16	−0.8778				351.0			
	−131.2 (Minimum)	0 (Nominal)	131.2 (Maximum)		−10320 (Minimum)	0 (Nominal)	10320 (Maximum)	
17	0.3771				1.542			
	−10.52 (Minimum)	0 (Nominal)	10.52 (Maximum)		−106.6 (Minimum)	0 (Nominal)	106.6 (Maximum)	
18	21.94				−72.28			
	−38.65 (Minimum)	0 (Nominal)	38.65 (Maximum)		−259.4 (Minimum)	0 (Nominal)	259.4 (Maximum)	
19	41.35				−886.6			
	−120.8 (Minimum)	0 (Nominal)	120.8 (Maximum)		−5071 (Minimum)	0 (Nominal)	5071 (Maximum)	
20	−1.309				644.0			
	−56.45 (Minimum)	0 (Nominal)	56.45 (Maximum)		−3970 (Minimum)	0 (Nominal)	3970 (Maximum)	
21	−19.96				827.7			
	−120.8 (Minimum)	0 (Nominal)	120.8 (Maximum)		−5071 (Minimum)	0 (Nominal)	5071 (Maximum)	
22	20.91				−78.73			
	−38.65 (Minimum)	0 (Nominal)	38.65 (Maximum)		−259.4 (Minimum)	0 (Nominal)	259.4 (Maximum)	
23	5.404				111.4			
	−56.45 (Minimum)	0 (Nominal)	56.45 (Maximum)		−3970 (Minimum)	0 (Nominal)	3970 (Maximum)	
24	−11.39				729.1			
	−71.00 (Minimum)	0 (Nominal)	71.00 (Maximum)		−5119 (Minimum)	0 (Nominal)	5119 (Maximum)	
25	−0.1843				183.8			
	−71.00 (Minimum)	0 (Nominal)	71.00 (Maximum)		−5119 (Minimum)	0 (Nominal)	5119 (Maximum)	
26	0.1410				1.329			
	−4.790 (Minimum)	0 (Nominal)	4.790 (Maximum)		−55.66 (Minimum)	0 (Nominal)	55.66 (Maximum)	
27	24.28				211.7			
	−73.80 (Minimum)	0 (Nominal)	73.80 (Maximum)		−352.9 (Minimum)	0 (Nominal)	352.9 (Maximum)	
28	−14.54				369.0			
	−159.9 (Minimum)	0 (Nominal)	159.9 (Maximum)		−6825 (Minimum)	0 (Nominal)	6825 (Maximum)	
29	2.952				−340.6			
	−69.24 (Minimum)	0 (Nominal)	69.24 (Maximum)		−2661 (Minimum)	0 (Nominal)	2661 (Maximum)	
30	12.79				−341.5			
	−159.9 (Minimum)	0 (Nominal)	159.9 (Maximum)		−6825 (Minimum)	0 (Nominal)	6825 (Maximum)	
31	15.14				196.8			
	−73.80 (Minimum)	0 (Nominal)	73.80 (Maximum)		−352.9 (Minimum)	0 (Nominal)	352.9 (Maximum)	
32	20.51				−348.1			
	−69.24 (Minimum)	0 (Nominal)	69.24 (Maximum)		−2661 (Minimum)	0 (Nominal)	2661 (Maximum)	
33	10.65				−355.8			
	−58.94 (Minimum)	0 (Nominal)	58.94 (Maximum)		−2491 (Minimum)	0 (Nominal)	2491 (Maximum)	

32	20.51					−348.1				
		−69.24 (Minimum)	0 (Nominal)	69.24 (Maximum)			−2661 (Minimum)	0 (Nominal)	2661 (Maximum)	
33	10.65					−355.8				
		−58.94 (Minimum)	0 (Nominal)	58.94 (Maximum)			−2491 (Minimum)	0 (Nominal)	2491 (Maximum)	
34	38.03					−774.0				
		−58.94 (Minimum)	0 (Nominal)	58.94 (Maximum)			−2491 (Minimum)	0 (Nominal)	2491 (Maximum)	
35	−0.3365					−2.702				
		−8.280 (Minimum)	0 (Nominal)	8.280 (Maximum)			−9138 (Minimum)	0 (Nominal)	9138 (Maximum)	
36	30.50					112.6				
		−75.28 (Minimum)	0 (Nominal)	75.28 (Maximum)			−175.1 (Minimum)	0 (Nominal)	175.1 (Maximum)	
37	0.1083					186.5				
		−50.66 (Minimum)	0 (Nominal)	50.66 (Maximum)			−3387 (Minimum)	0 (Nominal)	3387 (Maximum)	
38	1.066					−172.4				
		−22.87 (Minimum)	0 (Nominal)	22.87 (Maximum)			−1332 (Minimum)	0 (Nominal)	1332 (Maximum)	
39	−0.2032					−173.4				
		−50.66 (Minimum)	0 (Nominal)	50.66 (Maximum)			−3387 (Minimum)	0 (Nominal)	3387 (Maximum)	
40	20.87					110.3				
		−75.28 (Minimum)	0 (Nominal)	75.28 (Maximum)			−175.1 (Minimum)	0 (Nominal)	175.1 (Maximum)	
41	5.608					−173.6				
		−22.87 (Minimum)	0 (Nominal)	22.87 (Maximum)			−1332 (Minimum)	0 (Nominal)	1332 (Maximum)	
42	5.713					−181.8				
		−46.71 (Minimum)	0 (Nominal)	46.71 (Maximum)			−1250 (Minimum)	0 (Nominal)	1250 (Maximum)	
43	14.71					−391.0				
		−46.71 (Minimum)	0 (Nominal)	46.71 (Maximum)			−1250 (Minimum)	0 (Nominal)	1250 (Maximum)	
44	−0.1620					−1.289				
		−3.760 (Minimum)	0 (Nominal)	3.760 (Maximum)			−25.88 (Minimum)	0 (Nominal)	25.88 (Maximum)	
45	12.16					−1.251				
		−17.30 (Minimum)	0 (Nominal)	17.30 (Maximum)			−176.4 (Minimum)	0 (Nominal)	176.4 (Maximum)	
46	−5.857					191.9				
		−124.2 (Minimum)	0 (Nominal)	124.2 (Maximum)			−4734 (Minimum)	0 (Nominal)	4734 (Maximum)	
47	3.121					−57.85				
		−40.71 (Minimum)	0 (Nominal)	40.71 (Maximum)			−1318 (Minimum)	0 (Nominal)	1318 (Maximum)	
48	3.605					−233.7				
		−124.2 (Minimum)	0 (Nominal)	124.2 (Maximum)			−4734 (Minimum)	0 (Nominal)	4734 (Maximum)	
49	10.88					47.00				
		−17.30 (Minimum)	0 (Nominal)	17.30 (Maximum)			−176.4 (Minimum)	0 (Nominal)	176.4 (Maximum)	
50	4.774					344.8				
		−40.71 (Minimum)	0 (Nominal)	40.71 (Maximum)			−1318 (Minimum)	0 (Nominal)	1318 (Maximum)	
51	0.6836					−34.15				
		−21.65 (Minimum)	0 (Nominal)	21.65 (Maximum)			−1487 (Minimum)	0 (Nominal)	1487 (Maximum)	
52	−0.8281					252.3				
		−21.65 (Minimum)	0 (Nominal)	21.65 (Maximum)			−1487 (Minimum)	0 (Nominal)	1487 (Maximum)	
53	−0.3033					−5.334				
		−6.870 (Minimum)	0 (Nominal)	6.870 (Maximum)			−22.76 (Minimum)	0 (Nominal)	22.76 (Maximum)	
54	11.25					−3.212				
		−14.16 (Minimum)	0 (Nominal)	14.16 (Maximum)			−88.85 (Minimum)	0 (Nominal)	88.85 (Maximum)	
55	−0.5285					95.07				
		−19.50 (Minimum)	0 (Nominal)	19.50 (Maximum)			−2368 (Minimum)	0 (Nominal)	2368 (Maximum)	
56	0.08572					−27.49				
		−17.07 (Minimum)	0 (Nominal)	17.07 (Maximum)			−662.0 (Minimum)	0 (Nominal)	662.0 (Maximum)	
57	−0.2277					−116.4				
		−19.50 (Minimum)	0 (Nominal)	19.50 (Maximum)			−2368 (Minimum)	0 (Nominal)	2368 (Maximum)	
58	11.22					17.23				
		−14.16 (Minimum)	0 (Nominal)	14.16 (Maximum)			−88.85 (Minimum)	0 (Nominal)	88.85 (Maximum)	
59	2.411					175.2				
		−17.07 (Minimum)	0 (Nominal)	17.07 (Maximum)			−662.0 (Minimum)	0 (Nominal)	662.0 (Maximum)	
60	0.8766					−16.51				
		−11.09 (Minimum)	0 (Nominal)	11.09 (Maximum)			−742.3 (Minimum)	0 (Nominal)	742.3 (Maximum)	
61	1.063					129.1				
		−11.09 (Minimum)	0 (Nominal)	11.09 (Maximum)			−742.3 (Minimum)	0 (Nominal)	742.3 (Maximum)	
62	0.03168					−3.361				
		−3.800 (Minimum)	0 (Nominal)	3.800 (Maximum)			−13.37 (Minimum)	0 (Nominal)	13.37 (Maximum)	
63	3.173					40.41				
		−12.07 (Minimum)	0 (Nominal)	12.07 (Maximum)			−90.68 (Minimum)	0 (Nominal)	90.68 (Maximum)	
64	7.615					−175.6				
		−43.67 (Minimum)	0 (Nominal)	43.67 (Maximum)			−1646 (Minimum)	0 (Nominal)	1646 (Maximum)	
65	2.270					−70.86				
		−24.50 (Minimum)	0 (Nominal)	24.50 (Maximum)			−477.7 (Minimum)	0 (Nominal)	477.7 (Maximum)	

64	7.615				−175.6				
	−43.67 (Minimum)	0 (Nominal)	43.67 (Maximum)		−1646 (Minimum)	0 (Nominal)	1646 (Maximum)		
65	2.270				−70.86				
	−24.50 (Minimum)	0 (Nominal)	24.50 (Maximum)		−477.7 (Minimum)	0 (Nominal)	477.7 (Maximum)		
66	−4.661				162.3				
	−43.67 (Minimum)	0 (Nominal)	43.67 (Maximum)		−1646 (Minimum)	0 (Nominal)	1646 (Maximum)		
67	2.964				45.87				
	−12.07 (Minimum)	0 (Nominal)	12.07 (Maximum)		−90.68 (Minimum)	0 (Nominal)	90.68 (Maximum)		
68	2.078				−20.36				
	−24.50 (Minimum)	0 (Nominal)	24.50 (Maximum)		−477.7 (Minimum)	0 (Nominal)	477.7 (Maximum)		
69	0.1594				−22.64				
	−12.43 (Minimum)	0 (Nominal)	12.43 (Maximum)		−622.5 (Minimum)	0 (Nominal)	622.5 (Maximum)		
70	1.147				−57.42				
	−12.43 (Minimum)	0 (Nominal)	12.43 (Maximum)		−622.5 (Minimum)	0 (Nominal)	622.5 (Maximum)		
71	−0.4942				1.594				
	−3.560 (Minimum)	0 (Nominal)	3.560 (Maximum)		−10.29 (Minimum)	0 (Nominal)	10.29 (Maximum)		
72	2.926				28.16				
	−8.900 (Minimum)	0 (Nominal)	8.900 (Maximum)		−50.09 (Minimum)	0 (Nominal)	50.09 (Maximum)		
73	1.132				−85.98				
	−8.150 (Minimum)	0 (Nominal)	8.150 (Maximum)		−815.4 (Minimum)	0 (Nominal)	815.4 (Maximum)		
74	0.1658				−35.15				
	−12.27 (Minimum)	0 (Nominal)	12.27 (Maximum)		−242.1 (Minimum)	0 (Nominal)	242.1 (Maximum)		
75	−0.6077				79.41				
	−8.150 (Minimum)	0 (Nominal)	8.150 (Maximum)		−815.4 (Minimum)	0 (Nominal)	815.4 (Maximum)		
76	3.295				29.11				
	−8.900 (Minimum)	0 (Nominal)	8.900 (Maximum)		−50.09 (Minimum)	0 (Nominal)	50.09 (Maximum)		
77	−0.07962				−10.55				
	−12.27 (Minimum)	0 (Nominal)	12.27 (Maximum)		−242.1 (Minimum)	0 (Nominal)	242.1 (Maximum)		
78	0.3616				−10.08				
	−6.910 (Minimum)	0 (Nominal)	6.910 (Maximum)		−309.5 (Minimum)	0 (Nominal)	309.5 (Maximum)		
79	0.001061				−28.08				
	−6.910 (Minimum)	0 (Nominal)	6.910 (Maximum)		−309.5 (Minimum)	0 (Nominal)	309.5 (Maximum)		
80	−0.1322				0.8370				
	−2.270 (Minimum)	0 (Nominal)	2.270 (Maximum)		−5.950 (Minimum)	0 (Nominal)	5.950 (Maximum)		
81	6.675				29.85				
	−14.82 (Minimum)	0 (Nominal)	14.82 (Maximum)		−41.94 (Minimum)	0 (Nominal)	41.94 (Maximum)		
82	1.580				−178.3				
	−26.75 (Minimum)	0 (Nominal)	26.75 (Maximum)		−1114 (Minimum)	0 (Nominal)	1114 (Maximum)		
83	0.6850				−11.72				
	−22.91 (Minimum)	0 (Nominal)	22.91 (Maximum)		−425.6 (Minimum)	0 (Nominal)	425.6 (Maximum)		
84	−4.181				178.4				
	−26.75 (Minimum)	0 (Nominal)	26.75 (Maximum)		−1114 (Minimum)	0 (Nominal)	1114 (Maximum)		
85	5.729				13.98				
	−14.82 (Minimum)	0 (Nominal)	14.82 (Maximum)		−41.94 (Minimum)	0 (Nominal)	41.94 (Maximum)		
86	0.8323				−41.94				
	−22.91 (Minimum)	0 (Nominal)	22.91 (Maximum)		−425.6 (Minimum)	0 (Nominal)	425.6 (Maximum)		
87	1.151				10.77				
	−17.62 (Minimum)	0 (Nominal)	17.62 (Maximum)		−619.3 (Minimum)	0 (Nominal)	619.3 (Maximum)		
88	1.027				−59.49				
	−17.62 (Minimum)	0 (Nominal)	17.62 (Maximum)		−619.3 (Minimum)	0 (Nominal)	619.3 (Maximum)		
89	−0.03957				−5.026				
	−3.910 (Minimum)	0 (Nominal)	3.910 (Maximum)		−9.470 (Minimum)	0 (Nominal)	9.470 (Maximum)		
90	6.517				7.640				
	−11.24 (Minimum)	0 (Nominal)	11.24 (Maximum)		−18.45 (Minimum)	0 (Nominal)	18.45 (Maximum)		
91	−0.4015				−87.88				
	−6.130 (Minimum)	0 (Nominal)	6.130 (Maximum)		−563.2 (Minimum)	0 (Nominal)	563.2 (Maximum)		
92	−0.1593				−4.692				
	−13.75 (Minimum)	0 (Nominal)	13.75 (Maximum)		−215.6 (Minimum)	0 (Nominal)	215.6 (Maximum)		
93	0.3504				87.78				
	−6.130 (Minimum)	0 (Nominal)	6.130 (Maximum)		−563.2 (Minimum)	0 (Nominal)	563.2 (Maximum)		
94	6.297				−0.2984				
	−11.24 (Minimum)	0 (Nominal)	11.24 (Maximum)		−18.45 (Minimum)	0 (Nominal)	18.45 (Maximum)		
95	−0.6042				−21.44				
	−13.75 (Minimum)	0 (Nominal)	13.75 (Maximum)		−215.6 (Minimum)	0 (Nominal)	215.6 (Maximum)		
96	1.372				8.295				
	−9.770 (Minimum)	0 (Nominal)	9.770 (Maximum)		−316.9 (Minimum)	0 (Nominal)	316.9 (Maximum)		
97	0.2894				−28.61				
	−9.770 (Minimum)	0 (Nominal)	9.770 (Maximum)		−316.9 (Minimum)	0 (Nominal)	316.9 (Maximum)		

		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)
97	0.2894				−28.61			
		−9.770	0	9.770		−316.9	0	316.9
98	0.1280				−4.125			
		−2.110	0	2.110		−7.370	0	7.370
99	1.323				14.36			
		−15.93	0	15.93		−35.54	0	35.54
100	−1.307				18.23			
		−22.00	0	22.00		−562.7	0	562.7
101	1.127				−27.36			
		−29.21	0	29.21		−209.9	0	209.9
102	0.6906				−18.02			
		−22.00	0	22.00		−562.7	0	562.7
103	0.4833				18.57			
		−15.93	0	15.93		−35.54	0	35.54
104	−0.9209				−7.898			
		−29.21	0	29.21		−209.9	0	209.9
105	1.930				−19.63			
		−23.81	0	23.81		−232.8	0	232.8
106	1.554				−26.98			
		−23.81	0	23.81		−232.8	0	232.8
107	−0.6398				3.109			
		−10.69	0	10.69		−19.32	0	19.32
108	0.8980				9.235			
		−9.300	0	9.300		−21.95	0	21.95
109	−0.4559				10.45			
		−8.990	0	8.990		−293.9	0	293.9
110	−0.2050				−12.97			
		−16.85	0	16.85		−94.98	0	94.98
111	0.5483				−10.76			
		−8.990	0	8.990		−293.9	0	293.9
112	0.7549				11.61			
		−9.300	0	9.300		−21.95	0	21.95
113	−0.8941				−3.395			
		−16.85	0	16.85		−94.98	0	94.98
114	1.193				−10.92			
		−14.21	0	14.21		−112.1	0	112.1
115	0.3376				−12.07			
		−14.21	0	14.21		−112.1	0	112.1
116	−0.4428				2.615			
		−1.760	0	1.760		−10.88	0	10.88
		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)

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3-D Array Induction Tool - ZAIT-DB Master Calibration

Electronics Calibration Check - Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude MM/M	Nominal	Value	Thru Cal Phase DEG	Nominal
0	Master	1.473		1.456	−11.05		0
1	Master	1.467		1.456	−6.940		0
2	Master	1.476		1.456	0.5558		0
3	Master	3.387		3.352	−11.55		0
4	Master	3.371		3.352	−7.426		0
5	Master	3.392		3.352	0.06900		0
6	Master	2.722		2.680	−9.047		0
7	Master	2.709		2.680	−4.927		0
8	Master	2.724		2.680	2.552		0
9	Master	1.883		1.956	−7.186		0
10	Master	1.875		1.956	−3.985		0
11	Master	1.904		1.956	−0.3212		0
12	Master	3.532		3.537	−11.07		0
13	Master	3.515		3.537	−6.953		0
14	Master	3.536		3.537	0.5783		0
15	Master	3.028		3.100	−7.207		0
16	Master	3.014		3.100	−4.000		0
17	Master	3.061		3.100	−0.3436		0
18	Master	0.9335		0.9359	−11.09		0
19	Master	0.9308		0.9359	−6.976		0
20	Master	0.9370		0.9359	0.5483		0
21	Master	4.009		4.081	−8.067		0
22	Master	3.991		4.081	−4.857		0
23	Master	4.053		4.081	−1.193		0

21	Master	4.009		4.081	−8.067	0
22	Master	3.991		4.081	−4.857	0
23	Master	4.053		4.081	−1.193	0
24	Master	1.359		1.362	−11.58	0
25	Master	1.355		1.362	−7.469	0
26	Master	1.364		1.362	0.05147	0
27	Master	4.008		4.081	−8.065	0
28	Master	3.991		4.081	−4.858	0
29	Master	4.053		4.081	−1.202	0
30	Master	1.359		1.362	−11.59	0
31	Master	1.355		1.362	−7.464	0
32	Master	1.364		1.362	0.04984	0
33	Master	1.161		1.220	−6.591	0
34	Master	1.160		1.220	−3.403	0
35	Master	1.179		1.220	0.2376	0
36	Master	1.620		1.635	−9.055	0
37	Master	1.615		1.635	−4.943	0
38	Master	1.626		1.635	2.581	0
39	Master	1.395		1.464	−6.603	0
40	Master	1.394		1.464	−3.415	0
41	Master	1.417		1.464	0.2296	0
42	Master	2.340		2.353	−9.066	0
43	Master	2.333		2.353	−4.942	0
44	Master	2.349		2.353	2.563	0
		50.00 % (Minimum)	(Nominal)	150.0 % (Maximum)	Nom −85.00 (Minimum)	(Nominal) Nom + 85.00 (Maximum)

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3−D Array Induction Tool − ZAIT−DB Master Calibration

Electronics Calibration Check − Auxilliary

Phase	Array Induction SPA Plus V	Value	Phase	Array Induction SPA Zero V	Value
Master		0.8420	Master		−0.001295
	0.7570 (Minimum) 0.8360 (Nominal) 0.9150 (Maximum)			−0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value
Master		0.9874	Master		−0.001313
	0.8800 (Minimum) 0.9798 (Nominal) 1.076 (Maximum)			−0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	
Phase	Array Induction CalSig Plus V	Value	Phase	Array Induction CalSig Zero V	Value
Master		5.010	Master		−0.01227
	4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			−0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	
Phase	Array Induction Volt Plus V	Value	Phase	Array Induction Volt Zero V	Value
Master		5.010	Master		−0.01227
	4.500 (Minimum) 5.000 (Nominal) 5.500 (Maximum)			−0.05000 (Minimum) 0 (Nominal) 0.05000 (Maximum)	

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3−D Array Induction Tool − ZAIT−DB Master Calibration

Sonde Error Correction

Idx	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M
0	88.27		5029	
	−3044 (Minimum) 75.56 (Nominal) 3195 (Maximum)		−41740 (Minimum) 6473 (Nominal) 54690 (Maximum)	
1	820.5		3122	
	−2784 (Minimum) 335.3 (Nominal) 3455 (Maximum)		−42700 (Minimum) 5514 (Nominal) 53730 (Maximum)	
2	−1578		272.4	
	−2540 (Minimum) −1615 (Nominal) −689.3 (Maximum)		−6036 (Minimum) 0 (Nominal) 6479 (Maximum)	
3	−86.87		2760	
	−576.7 (Minimum) −57.54 (Nominal) 461.6 (Maximum)		−10450 (Minimum) 1184 (Nominal) 12810 (Maximum)	
4	214.4		−2019	
	−435.0 (Minimum) 84.07 (Nominal) 603.2 (Maximum)		−10360 (Minimum) 1268 (Nominal) 12900 (Maximum)	
5	333.7		247.8	
	154.7 (Minimum) 347.0 (Nominal) 539.3 (Maximum)		−2453 (Minimum) 0 (Nominal) 2493 (Maximum)	
6	−0.9921		411.4	
	−144.9 (Minimum) −2.700 (Nominal) 139.5 (Maximum)		−3819 (Minimum) 375.6 (Nominal) 4570 (Maximum)	
7	74.59		−330.0	
	−107.1 (Minimum) 35.09 (Nominal) 177.3 (Maximum)		−4217 (Minimum) −22.36 (Nominal) 4172 (Maximum)	
8	86.21		22.52	
	−15.71 (Minimum) 63.68 (Nominal) 143.1 (Maximum)		−876.0 (Minimum) 0 (Nominal) 876.0 (Maximum)	
9	−596.3		779.6	
	−1142 (Minimum) −568.5 (Nominal) 5.130 (Maximum)		−299.6 (Minimum) 1096 (Nominal) 2492 (Maximum)	
10	−171.8		2654	
	−884.0 (Minimum) 0.1100 (Nominal) 884.2 (Maximum)		−25770 (Minimum) −247.4 (Nominal) 25270 (Maximum)	
11	−45.84		880.4	
	−391.2 (Minimum) −31.31 (Nominal) 328.6 (Maximum)		−8762 (Minimum) 1038 (Nominal) 10840 (Maximum)	
12	16.43		−931.8	
	−916.7 (Minimum) −32.61 (Nominal) 851.5 (Maximum)		−23780 (Minimum) 1744 (Nominal) 27270 (Maximum)	

	−391.2 (Minimum)	−31.31 (Nominal)	328.6 (Maximum)		−8762 (Minimum)	1038 (Nominal)	10840 (Maximum)	
12	16.43				−931.8			
	−916.7 (Minimum)	−32.61 (Nominal)	851.5 (Maximum)		−23780 (Minimum)	1744 (Nominal)	27270 (Maximum)	
13	−582.8				589.2			
	−1119 (Minimum)	−545.6 (Nominal)	28.03 (Maximum)		−496.9 (Minimum)	898.8 (Nominal)	2295 (Maximum)	
14	102.9				781.9			
	−320.8 (Minimum)	39.10 (Nominal)	399.0 (Maximum)		−9361 (Minimum)	438.4 (Nominal)	10240 (Maximum)	
15	−12.95				1724			
	−253.8 (Minimum)	33.04 (Nominal)	319.8 (Maximum)		−15440 (Minimum)	250.1 (Nominal)	15940 (Maximum)	
16	54.36				39.55			
	−245.2 (Minimum)	41.57 (Nominal)	328.4 (Maximum)		−15320 (Minimum)	372.9 (Nominal)	16070 (Maximum)	
17	109.0				−179.9			
	4.020 (Minimum)	96.42 (Nominal)	188.8 (Maximum)		−993.3 (Minimum)	15.44 (Nominal)	1024 (Maximum)	
18	−352.9				−10.84			
	−840.7 (Minimum)	−323.3 (Nominal)	194.0 (Maximum)		−519.5 (Minimum)	0 (Nominal)	803.7 (Maximum)	
19	−56.27				1304			
	−311.0 (Minimum)	−0.03000 (Nominal)	311.0 (Maximum)		−12680 (Minimum)	−126.1 (Nominal)	12430 (Maximum)	
20	−11.34				434.4			
	−132.1 (Minimum)	−9.060 (Nominal)	114.0 (Maximum)		−4370 (Minimum)	515.2 (Nominal)	5400 (Maximum)	
21	9.822				−462.2			
	−324.5 (Minimum)	−13.51 (Nominal)	297.5 (Maximum)		−11700 (Minimum)	859.7 (Nominal)	13420 (Maximum)	
22	−345.7				−118.3			
	−813.9 (Minimum)	−296.5 (Nominal)	220.9 (Maximum)		−617.0 (Minimum)	0 (Nominal)	706.2 (Maximum)	
23	27.66				400.6			
	−111.8 (Minimum)	11.30 (Nominal)	134.3 (Maximum)		−4661 (Minimum)	224.0 (Nominal)	5109 (Maximum)	
24	−3.710				825.1			
	−170.6 (Minimum)	22.07 (Nominal)	214.7 (Maximum)		−7687 (Minimum)	91.79 (Nominal)	7871 (Maximum)	
25	39.91				5.662			
	−154.5 (Minimum)	38.15 (Nominal)	230.8 (Maximum)		−7614 (Minimum)	165.1 (Nominal)	7944 (Maximum)	
26	28.97				−66.03			
	−0.1700 (Minimum)	28.00 (Nominal)	56.17 (Maximum)		−504.6 (Minimum)	0 (Nominal)	495.0 (Maximum)	
27	−562.4				−95.02			
	−959.4 (Minimum)	−643.3 (Nominal)	−327.1 (Maximum)		−1836 (Minimum)	−294.2 (Nominal)	1248 (Maximum)	
28	54.30				−1082			
	−278.8 (Minimum)	−18.74 (Nominal)	241.3 (Maximum)		−9191 (Minimum)	704.4 (Nominal)	10600 (Maximum)	
29	−8.890				719.0			
	−131.4 (Minimum)	−3.970 (Nominal)	123.5 (Maximum)		−3246 (Minimum)	274.5 (Nominal)	3795 (Maximum)	
30	−8.290				403.0			
	−231.7 (Minimum)	28.35 (Nominal)	288.4 (Maximum)		−10700 (Minimum)	−805.6 (Nominal)	9090 (Maximum)	
31	−595.2				−101.5			
	−993.3 (Minimum)	−677.2 (Nominal)	−361.0 (Maximum)		−1852 (Minimum)	−309.8 (Nominal)	1232 (Maximum)	
32	57.16				−253.1			
	−100.6 (Minimum)	26.86 (Nominal)	154.3 (Maximum)		−3615 (Minimum)	−94.47 (Nominal)	3427 (Maximum)	
33	−3.952				1123			
	−158.9 (Minimum)	11.59 (Nominal)	182.1 (Maximum)		−6376 (Minimum)	555.0 (Nominal)	7486 (Maximum)	
34	10.67				−310.7			
	−168.0 (Minimum)	2.470 (Nominal)	172.9 (Maximum)		−7486 (Minimum)	−554.5 (Nominal)	6377 (Maximum)	
35	101.8				−162.8			
	56.75 (Minimum)	93.59 (Nominal)	130.4 (Maximum)		−637.4 (Minimum)	−119.4 (Nominal)	398.6 (Maximum)	
36	−575.8				108.6			
	−947.3 (Minimum)	−650.7 (Nominal)	−354.1 (Maximum)		−796.1 (Minimum)	0 (Nominal)	753.2 (Maximum)	
37	15.75				−542.6			
	−109.0 (Minimum)	−4.410 (Nominal)	100.2 (Maximum)		−4590 (Minimum)	351.2 (Nominal)	5293 (Maximum)	
38	3.713				362.5			
	−33.67 (Minimum)	3.320 (Nominal)	40.30 (Maximum)		−1623 (Minimum)	137.7 (Nominal)	1898 (Maximum)	
39	3.807				203.4			
	−87.26 (Minimum)	17.36 (Nominal)	122.0 (Maximum)		−5349 (Minimum)	−407.2 (Nominal)	4534 (Maximum)	
40	−604.4				107.3			
	−978.0 (Minimum)	−681.4 (Nominal)	−384.8 (Maximum)		−809.2 (Minimum)	0 (Nominal)	740.1 (Maximum)	
41	15.66				−122.4			
	−29.87 (Minimum)	7.120 (Nominal)	44.11 (Maximum)		−1804 (Minimum)	−43.47 (Nominal)	1717 (Maximum)	
42	14.21				564.3			
	−137.1 (Minimum)	−0.9800 (Nominal)	135.1 (Maximum)		−3216 (Minimum)	278.9 (Nominal)	3774 (Maximum)	
43	−3.028				−156.8			
	−146.2 (Minimum)	−10.06 (Nominal)	126.1 (Maximum)		−3772 (Minimum)	−277.1 (Nominal)	3218 (Maximum)	
44	52.71				−49.22			
	34.04 (Minimum)	46.43 (Nominal)	58.81 (Maximum)		−276.3 (Minimum)	0 (Nominal)	234.2 (Maximum)	
45	−58.84				8.329			

44	52.71				−49.22			
		34.04 (Minimum)	46.43 (Nominal)	58.81 (Maximum)		−276.3 (Minimum)	0 (Nominal)	234.2 (Maximum)
45	−58.84				8.329			
		−89.26 (Minimum)	−49.82 (Nominal)	−10.37 (Maximum)		−500.8 (Minimum)	129.5 (Nominal)	759.9 (Maximum)
46	3.286				−139.4			
		−206.0 (Minimum)	9.510 (Nominal)	225.0 (Maximum)		−9211 (Minimum)	−434.0 (Nominal)	8343 (Maximum)
47	−18.18				338.2			
		−78.46 (Minimum)	−6.300 (Nominal)	65.86 (Maximum)		−1552 (Minimum)	333.8 (Nominal)	2220 (Maximum)
48	1.997				−80.20			
		−225.1 (Minimum)	−9.590 (Nominal)	205.9 (Maximum)		−8346 (Minimum)	431.1 (Nominal)	9209 (Maximum)
49	−54.42				61.79			
		−85.12 (Minimum)	−45.67 (Nominal)	−6.220 (Maximum)		−609.4 (Minimum)	20.98 (Nominal)	651.4 (Maximum)
50	18.37				170.6			
		−59.32 (Minimum)	12.83 (Nominal)	84.99 (Maximum)		−2079 (Minimum)	−192.9 (Nominal)	1693 (Maximum)
51	1.042				298.4			
		−67.50 (Minimum)	−3.840 (Nominal)	59.81 (Maximum)		−3044 (Minimum)	210.5 (Nominal)	3465 (Maximum)
52	11.06				−104.5			
		−47.23 (Minimum)	16.42 (Nominal)	80.07 (Maximum)		−3627 (Minimum)	−372.5 (Nominal)	2882 (Maximum)
53	43.57				−29.83			
		19.80 (Minimum)	37.82 (Nominal)	55.84 (Maximum)		−193.4 (Minimum)	−13.34 (Nominal)	166.7 (Maximum)
54	−83.70				−42.40			
		−107.2 (Minimum)	−72.38 (Nominal)	−37.62 (Maximum)		−309.4 (Minimum)	0 (Nominal)	334.8 (Maximum)
55	0.7240				−67.75			
		−24.18 (Minimum)	1.880 (Nominal)	27.95 (Maximum)		−4607 (Minimum)	−218.5 (Nominal)	4170 (Maximum)
56	−3.804				167.0			
		−26.06 (Minimum)	−2.480 (Nominal)	21.11 (Maximum)		−783.5 (Minimum)	165.9 (Nominal)	1115 (Maximum)
57	1.687				−38.88			
		−25.59 (Minimum)	0.4800 (Nominal)	26.54 (Maximum)		−4172 (Minimum)	216.9 (Nominal)	4606 (Maximum)
58	−78.27				−15.46			
		−105.0 (Minimum)	−70.24 (Nominal)	−35.48 (Maximum)		−426.9 (Minimum)	0 (Nominal)	426.9 (Maximum)
59	4.607				87.04			
		−21.46 (Minimum)	2.130 (Nominal)	25.71 (Maximum)		−1043 (Minimum)	−93.11 (Nominal)	856.3 (Maximum)
60	1.882				142.9			
		−17.44 (Minimum)	−1.060 (Nominal)	15.31 (Maximum)		−1535 (Minimum)	99.43 (Nominal)	1734 (Maximum)
61	4.329				−49.94			
		−12.37 (Minimum)	4.000 (Nominal)	20.37 (Maximum)		−1818 (Minimum)	−183.7 (Nominal)	1451 (Maximum)
62	28.41				−18.02			
		13.23 (Minimum)	23.81 (Nominal)	34.38 (Maximum)		−88.98 (Minimum)	0 (Nominal)	84.68 (Maximum)
63	−37.14				215.3			
		−58.81 (Minimum)	−34.16 (Nominal)	−9.510 (Maximum)		−149.4 (Minimum)	226.5 (Nominal)	602.5 (Maximum)
64	−14.20				353.4			
		−149.8 (Minimum)	−9.120 (Nominal)	131.5 (Maximum)		−5964 (Minimum)	303.7 (Nominal)	6571 (Maximum)
65	−4.511				−6.491			
		−36.91 (Minimum)	−4.330 (Nominal)	28.25 (Maximum)		−402.3 (Minimum)	175.3 (Nominal)	752.8 (Maximum)
66	11.18				−483.0			
		−132.9 (Minimum)	7.750 (Nominal)	148.4 (Maximum)		−6540 (Minimum)	−272.8 (Nominal)	5994 (Maximum)
67	−34.71				227.6			
		−56.41 (Minimum)	−31.76 (Nominal)	−7.110 (Maximum)		−179.7 (Minimum)	196.2 (Nominal)	572.2 (Maximum)
68	4.949				106.0			
		−26.54 (Minimum)	6.040 (Nominal)	38.62 (Maximum)		−605.2 (Minimum)	−27.67 (Nominal)	549.9 (Maximum)
69	−0.3988				54.41			
		−22.77 (Minimum)	1.390 (Nominal)	25.55 (Maximum)		−965.8 (Minimum)	381.2 (Nominal)	1728 (Maximum)
70	3.621				−40.29			
		−16.23 (Minimum)	7.930 (Nominal)	32.10 (Maximum)		−1496 (Minimum)	−149.4 (Nominal)	1198 (Maximum)
71	17.85				42.58			
		8.990 (Minimum)	15.55 (Nominal)	22.11 (Maximum)		−57.73 (Minimum)	15.15 (Nominal)	88.03 (Maximum)
72	−42.74				32.56			
		−58.56 (Minimum)	−38.55 (Nominal)	−18.54 (Maximum)		−161.5 (Minimum)	0 (Nominal)	223.3 (Maximum)
73	−1.326				177.4			
		−17.68 (Minimum)	−0.1300 (Nominal)	17.41 (Maximum)		−2942 (Minimum)	151.7 (Nominal)	3246 (Maximum)
74	−2.055				−2.684			
		−11.01 (Minimum)	−1.890 (Nominal)	7.240 (Maximum)		−201.5 (Minimum)	86.92 (Nominal)	375.4 (Maximum)
75	2.007				−240.2			
		−16.04 (Minimum)	1.510 (Nominal)	19.05 (Maximum)		−3231 (Minimum)	−136.5 (Nominal)	2958 (Maximum)
76	−40.57				39.70			
		−56.92 (Minimum)	−36.91 (Nominal)	−16.90 (Maximum)		−176.2 (Minimum)	0 (Nominal)	208.5 (Maximum)
77	0.7916				53.58			
		−8.500 (Minimum)	0.6300 (Nominal)	9.750 (Maximum)		−300.3 (Minimum)	−11.88 (Nominal)	276.6 (Maximum)

	−56.92 (Minimum)	−36.91 (Nominal)	−16.90 (Maximum)		−176.2 (Minimum)	0 (Nominal)	208.5 (Maximum)	
77	0.7916				53.58			
	−8.500 (Minimum)	0.6300 (Nominal)	9.750 (Maximum)		−300.3 (Minimum)	−11.88 (Nominal)	276.6 (Maximum)	
78	1.168				24.27			
	−6.590 (Minimum)	2.390 (Nominal)	11.37 (Maximum)		−484.4 (Minimum)	187.1 (Nominal)	858.5 (Maximum)	
79	0.4051				−20.21			
	−7.030 (Minimum)	1.950 (Nominal)	10.93 (Maximum)		−745.0 (Minimum)	−73.51 (Nominal)	598.0 (Maximum)	
80	15.07				5.775			
	8.490 (Minimum)	13.00 (Nominal)	17.50 (Maximum)		−59.55 (Minimum)	0 (Nominal)	59.55 (Maximum)	
81	−58.14				250.5			
	−83.98 (Minimum)	−50.65 (Nominal)	−17.32 (Maximum)		4.180 (Minimum)	239.1 (Nominal)	474.0 (Maximum)	
82	7.099				−589.4			
	−54.31 (Minimum)	7.290 (Nominal)	68.89 (Maximum)		−2508 (Minimum)	−251.7 (Nominal)	2005 (Maximum)	
83	−3.474				58.75			
	−27.87 (Minimum)	−2.520 (Nominal)	22.82 (Maximum)		−304.1 (Minimum)	90.11 (Nominal)	484.3 (Maximum)	
84	−13.49				559.2			
	−66.84 (Minimum)	−5.240 (Nominal)	56.36 (Maximum)		−2014 (Minimum)	243.0 (Nominal)	2500 (Maximum)	
85	−55.98				229.2			
	−82.97 (Minimum)	−49.65 (Nominal)	−16.32 (Maximum)		−14.26 (Minimum)	220.7 (Nominal)	455.6 (Maximum)	
86	4.337				−30.23			
	−21.94 (Minimum)	3.410 (Nominal)	28.76 (Maximum)		−388.6 (Minimum)	5.550 (Nominal)	399.7 (Maximum)	
87	2.767				3.453			
	−15.66 (Minimum)	2.800 (Nominal)	21.27 (Maximum)		−494.9 (Minimum)	92.57 (Nominal)	680.1 (Maximum)	
88	2.118				67.46			
	−13.04 (Minimum)	5.420 (Nominal)	23.89 (Maximum)		−611.6 (Minimum)	−24.07 (Nominal)	563.4 (Maximum)	
89	7.966				72.04			
	0.1200 (Minimum)	8.090 (Nominal)	16.05 (Maximum)		−122.5 (Minimum)	69.02 (Nominal)	260.6 (Maximum)	
90	−55.89				56.15			
	−75.79 (Minimum)	−48.94 (Nominal)	−22.09 (Maximum)		−92.00 (Minimum)	0 (Nominal)	171.8 (Maximum)	
91	0.1984				−298.1			
	−7.360 (Minimum)	0.6500 (Nominal)	8.670 (Maximum)		−1276 (Minimum)	−127.2 (Nominal)	1021 (Maximum)	
92	−2.245				31.75			
	−8.160 (Minimum)	−2.440 (Nominal)	3.270 (Maximum)		−156.6 (Minimum)	46.12 (Nominal)	248.9 (Maximum)	
93	0.6647				283.8			
	−7.210 (Minimum)	0.8100 (Nominal)	8.830 (Maximum)		−1026 (Minimum)	122.5 (Nominal)	1271 (Maximum)	
94	−53.09				46.61			
	−74.68 (Minimum)	−47.83 (Nominal)	−20.98 (Maximum)		−72.24 (Minimum)	0 (Nominal)	164.6 (Maximum)	
95	−0.007349				−17.06			
	−5.990 (Minimum)	−0.2800 (Nominal)	5.440 (Maximum)		−198.4 (Minimum)	4.370 (Nominal)	207.1 (Maximum)	
96	1.447				0.7863			
	−5.340 (Minimum)	1.780 (Nominal)	8.900 (Maximum)		−252.8 (Minimum)	43.38 (Nominal)	339.5 (Maximum)	
97	0.6062				33.63			
	−5.420 (Minimum)	1.690 (Nominal)	8.810 (Maximum)		−307.2 (Minimum)	−11.04 (Nominal)	285.1 (Maximum)	
98	11.43				−2.425			
	7.340 (Minimum)	11.97 (Nominal)	16.60 (Maximum)		−112.7 (Minimum)	0 (Nominal)	94.06 (Maximum)	
99	−80.78				−29.78			
	−119.5 (Minimum)	−74.40 (Nominal)	−29.31 (Maximum)		−341.8 (Minimum)	75.72 (Nominal)	493.2 (Maximum)	
100	−9.530				262.9			
	−25.61 (Minimum)	0.09000 (Nominal)	25.80 (Maximum)		−881.3 (Minimum)	41.14 (Nominal)	963.5 (Maximum)	
101	−2.462				74.60			
	−27.66 (Minimum)	−0.2600 (Nominal)	27.14 (Maximum)		−141.1 (Minimum)	22.46 (Nominal)	186.0 (Maximum)	
102	6.318				−315.0			
	−23.81 (Minimum)	1.890 (Nominal)	27.60 (Maximum)		−991.9 (Minimum)	−69.50 (Nominal)	852.9 (Maximum)	
103	−78.09				−21.74			
	−119.7 (Minimum)	−74.58 (Nominal)	−29.49 (Maximum)		−344.7 (Minimum)	72.81 (Nominal)	490.3 (Maximum)	
104	−0.1067				−10.25			
	−24.50 (Minimum)	2.900 (Nominal)	30.30 (Maximum)		−156.8 (Minimum)	6.760 (Nominal)	170.3 (Maximum)	
105	5.302				84.14			
	−8.660 (Minimum)	7.640 (Nominal)	23.94 (Maximum)		−327.0 (Minimum)	−0.3900 (Nominal)	326.3 (Maximum)	
106	4.123				−50.06			
	−11.59 (Minimum)	4.710 (Nominal)	21.02 (Maximum)		−336.4 (Minimum)	−9.710 (Nominal)	317.0 (Maximum)	
107	−10.42				20.40			
	−23.38 (Minimum)	−11.05 (Nominal)	1.270 (Maximum)		−265.3 (Minimum)	49.40 (Nominal)	364.1 (Maximum)	
108	−82.06				80.45			
	−116.6 (Minimum)	−73.28 (Nominal)	−29.97 (Maximum)		−103.6 (Minimum)	0 (Nominal)	344.9 (Maximum)	
109	−0.8883				135.5			
	−8.680 (Minimum)	−0.1900 (Nominal)	8.300 (Maximum)		−442.4 (Minimum)	24.18 (Nominal)	490.8 (Maximum)	
110	−1.967				33.20			

109	−0.8883				135.6			
		−8.680 (Minimum)	−0.1900 (Nominal)	8.300 (Maximum)		−442.4 (Minimum)	24.18 (Nominal)	490.8 (Maximum)
110	−1.967				33.20			
		−10.04 (Minimum)	−1.930 (Nominal)	6.190 (Maximum)		−66.36 (Minimum)	8.150 (Nominal)	82.66 (Maximum)
111	1.796				−163.7			
		−7.000 (Minimum)	1.500 (Nominal)	9.990 (Maximum)		−504.4 (Minimum)	−37.85 (Nominal)	428.7 (Maximum)
112	−80.02				86.15			
		−116.8 (Minimum)	−73.45 (Nominal)	−30.14 (Maximum)		−82.29 (Minimum)	0 (Nominal)	343.6 (Maximum)
113	−1.353				−4.703			
		−8.570 (Minimum)	−0.4600 (Nominal)	7.650 (Maximum)		−70.60 (Minimum)	3.910 (Nominal)	78.42 (Maximum)
114	3.500				41.71			
		−1.480 (Minimum)	3.520 (Nominal)	8.520 (Maximum)		−163.7 (Minimum)	−0.9500 (Nominal)	161.8 (Maximum)
115	0.8982				−24.52			
		−4.360 (Minimum)	0.6400 (Nominal)	5.640 (Maximum)		−166.3 (Minimum)	−3.490 (Nominal)	159.3 (Maximum)
116	−6.219				43.04			
		−9.610 (Minimum)	−6.070 (Nominal)	−2.540 (Maximum)		−106.9 (Minimum)	0 (Nominal)	217.4 (Maximum)

Master: 8-Mar-2010 14:22

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:			
Hostile Litho Density Sonde	HLDS - D	46	46
Hostile Litho Density High Voltage	HLDV - D	42	42
Gamma Source Radioactive	GSR - Z	3146	3146
Auxiliary Equipment:			
Hostile Litho Density Pad	HLDP - C	46	46
Hostile Litho Density High Voltage Housi	HEH - H	44	44

Hostile Litho-Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value
Master		8.293
Before		8.431
After		8.521
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LS Cs Resolution Bkg %	Value
Master		8.057
Before		8.014
After		8.143
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LSW1 Background CPS	Value
Master		81.94
Before		81.84
After		81.93
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	LSW2 Background CPS	Value
Master		74.28
Before		74.59
After		75.69
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)	

Phase	LSW3 Background CPS	Value
Master		171.1
Before		168.2
After		171.9
	110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)	

Phase	LSW4 Background CPS	Value
Master		211.3
Before		208.4
After		210.1
	140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	

Phase	LSW5 Background CPS	Value
Master		467.8
Before		468.9
After		467.5
	330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)	

Phase	SSW1 Background CPS	Value
Master		95.80
Before		96.50
After		94.72
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	SSW2 Background CPS	Value
Master		170.0
Before		169.2
After		170.1
	100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)	

Phase	SSW3 Background CPS	Value
Master		461.0
Before		457.9
After		458.6
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)	

Phase	SSW4 Background CPS	Value
Master		241.1
Before		241.3
After		240.3
	150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)	

Phase	SSW5 Background CPS	Value
Master		176.3
Before		176.2
After		176.5
	110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	

Master: 1-Apr-2010 9:55 Before: 9-Apr-2010 15:31 After: 11-Apr-2010 5:27

Hostile Litho-Density Sonde Master Calibration

Detector Background Measurement

Phase	LSW1 Background CPS	Value
Master		81.94
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	LSW2 Background CPS	Value
Master		74.28
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)	

Phase	LSW3 Background CPS	Value
Master		171.1
	110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)	

Phase	LSW4 Background CPS	Value
Master		211.3
	140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	

Phase	LSW5 Background CPS	Value
Master		467.8
	330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)	

Phase	LS Cs Resolution Bkg %	Value
Master		8.057
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	SSW1 Background CPS	Value
Master		95.80
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	SSW2 Background CPS	Value
Master		170.0
	100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)	

Phase	SSW3 Background CPS	Value
Master		461.0
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)	

Phase	SSW4 Background CPS	Value
Master		241.1
	150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)	

Phase	SSW5 Background CPS	Value
Master		176.3
	110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	

Phase	SS Cs Resolution Bkg %	Value
Master		8.293
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Master: 1-Apr-2010 9:55

Hostile Litho-Density Sonde Master Calibration

Detector Aluminum Measurement (bkgd-subtracted)

Phase	LSW1 Aluminum CPS	Value
Master		588.0
	420.0 (Minimum) 600.0 (Nominal) 770.0 (Maximum)	

Phase	LSW2 Aluminum CPS	Value
Master		883.7
	650.0 (Minimum) 900.0 (Nominal) 1150 (Maximum)	

Phase	LSW3 Aluminum CPS	Value
Master		1059
	800.0 (Minimum) 1100 (Nominal) 1450 (Maximum)	

Phase	LSW4 Aluminum CPS	Value
Master		527.5
	410.0 (Minimum) 580.0 (Nominal) 740.0 (Maximum)	

Phase	LSW5 Aluminum CPS	Value
Master		493.4
	410.0 (Minimum) 570.0 (Nominal) 740.0 (Maximum)	

Phase	SSW1 Aluminum CPS	Value
Master		2711
	2000 (Minimum) 2800 (Nominal) 3200 (Maximum)	

Phase	SSW2 Aluminum CPS	Value
Master		7376

Phase	SSW3 Aluminum CPS	Value
Master		10300

Phase	SSW4 Aluminum CPS	Value
Master		4203

Phase	SSW2 Aluminum CPS	Value
Master		7376
	5800 (Minimum) 8000 (Nominal) 9300 (Maximum)	

Phase	SSW3 Aluminum CPS	Value
Master		10300
	8300 (Minimum) 11600 (Nominal) 13500 (Maximum)	

Phase	SSW4 Aluminum CPS	Value
Master		4203
	3500 (Minimum) 5000 (Nominal) 5800 (Maximum)	

Phase	SSW5 Aluminum CPS	Value
Master		513.2
	470.0 (Minimum) 660.0 (Nominal) 770.0 (Maximum)	

Master: 1-Apr-2010 10:51

Hostile Litho-Density Sonde Master Calibration

Detector Litholog Measurement (bkgd-subtracted)

Phase	LSW1 Iron CPS	Value
Master		383.6
	290.0 (Minimum) 400.0 (Nominal) 560.0 (Maximum)	

Phase	LSW2 Iron CPS	Value
Master		688.7
	520.0 (Minimum) 730.0 (Nominal) 950.0 (Maximum)	

Phase	LSW3 Iron CPS	Value
Master		910.9
	720.0 (Minimum) 1000 (Nominal) 1350 (Maximum)	

Phase	LSW4 Iron CPS	Value
Master		470.7
	370.0 (Minimum) 520.0 (Nominal) 700.0 (Maximum)	

Phase	LSW5 Iron CPS	Value
Master		440.9
	340.0 (Minimum) 470.0 (Nominal) 750.0 (Maximum)	

Phase	SSW1 Iron CPS	Value
Master		1921
	1500 (Minimum) 2100 (Nominal) 2400 (Maximum)	

Phase	SSW2 Iron CPS	Value
Master		5996
	4900 (Minimum) 6800 (Nominal) 7900 (Maximum)	

Phase	SSW3 Iron CPS	Value
Master		9191
	7800 (Minimum) 10800 (Nominal) 12600 (Maximum)	

Phase	SSW4 Iron CPS	Value
Master		3735
	3300 (Minimum) 4600 (Nominal) 5400 (Maximum)	

Phase	SSW5 Iron CPS	Value
Master		434.4
	420.0 (Minimum) 580.0 (Nominal) 680.0 (Maximum)	

Master: 1-Apr-2010 10:41

Hostile Litho-Density Sonde Master Calibration

Quality Ratios

Phase	AL CALIBRATION RATIO 1	Value
Master		1.038
	0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)	

Phase	AL CALIBRATION RATIO 2	Value
Master		2.184
	1.900 (Minimum) 2.100 (Nominal) 2.300 (Maximum)	

Phase	AL CALIBRATION RATIO 3	Value
Master		0.5759
	0.4500 (Minimum) 0.5500 (Nominal) 0.6500 (Maximum)	

Phase	AL CALIBRATION RATIO 4	Value
Master		0.5749
	0.4000 (Minimum) 0.5500 (Nominal) 0.6500 (Maximum)	

Phase	Pad-Wear SS Ratio	Value
Master		0.9870
	0.9800 (Minimum) 0.9880 (Nominal) 0.9960 (Maximum)	

Phase	Pad-Wear LS Ratio	Value
Master		0.9860
	0.9800 (Minimum) 0.9880 (Nominal) 0.9960 (Maximum)	

Phase	Pad-Position SS Ratio	Value
Master		0.9968
	0.9900 (Minimum) 0.9940 (Nominal) 1.015 (Maximum)	

Phase	Pad-Position LS Ratio	Value
Master		0.9871
	0.9850 (Minimum) 0.9940 (Nominal) 1.010 (Maximum)	

Master: 1-Apr-2010 10:52

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment:			
LDSC Cartridge	LDSC - B	296	296
Auxiliary Equipment:			
LDSC Housing	LDSH - A	4002	4002

Compensated Neutron - K / Equipment Identification

Primary Equipment:			
Neutron Detector with Alpha Source	CND - A		
Compensated Neutron Cartridge	CNC - KA	2552	2552
Neutron Logging Source	NLS - KL		
Neutron Source Radioactive	NSR - F	2685	2685
Compensated Neutron Box	CNB - AB		
Auxiliary Equipment:			
Compensated Neutron Housing	CNH - A	4486	4486
Neutron Calibration Tank	NCT - B		

Compensated Neutron - K Wellsite Calibration

Zero Measurement

Phase	CNTC Background CPS	Value
Master		32.60
Before		32.96
After		31.46
	5.000 (Minimum) 32.60 (Nominal) 40.00 (Maximum)	

Phase	CFTC Background CPS	Value
Master		26.07
Before		26.46
After		26.85
	5.000 (Minimum) 26.07 (Nominal) 40.00 (Maximum)	

Master: 1-Apr-2010 17:55 Before: 9-Apr-2010 15:30

After: 11-Apr-2010 5:25

Compensated Neutron - K Master Calibration

Tank Measurement

Phase	Thermal Near Corr. (Tank) CPS	Value
Master		5306
	5000 (Minimum) 6031 (Nominal) 7200 (Maximum)	

Phase	Thermal Far Corr. (Tank) CPS	Value
Master		2278
	2075 (Minimum) 2793 (Nominal) 3125 (Maximum)	

Phase	CNTC/CFTC (Tank)	Value
Master		2.329
	2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	

Master: 1-Apr-2010 18:03

General Purpose Inclinometer / Equipment Identification

Primary Equipment:			
GPIT Cartridge - C	GPIC - C	804	804
Auxiliary Equipment:			
GPIT Housing	GPIH - B	2735	2735

Primary Equipment:			
GPIT Cartridge – C	GPIC – C	804	804
Auxiliary Equipment:			
GPIT Housing	GPIH – B	2735	2735

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:			
EDTC Gamma Ray Detector	EDTG – A/B		
Enhanced DTS Cartridge	EDTC – B	8582	8582
Auxiliary Equipment:			
EDTC Housing	EDTH – B	8577	8577

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z–Axis Acceleration F/S2	Value
Before		32.13

31.53 (Minimum) 32.19 (Nominal) 32.84 (Maximum)

Before: 10–Apr–2010 23:12

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig – Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		6.242	Before		147.7	Before		165.0

0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)

134.3 (Minimum) 147.7 (Nominal) 161.1 (Maximum)

150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)

Before: 9–Apr–2010 15:43

Company:	**BP Exploration & Production, Inc.**
Well:	**OCS–G 32306 001 ST00BP01**
Field:	**Mississippi Canyon 252**
Waters:	**Gulf of Mexico**
State:	**Louisiana**

Schlumberger

RT Scanner
Hostile Litho Density Tool
Compensated Neutron (5" = 100' MD)