

Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation

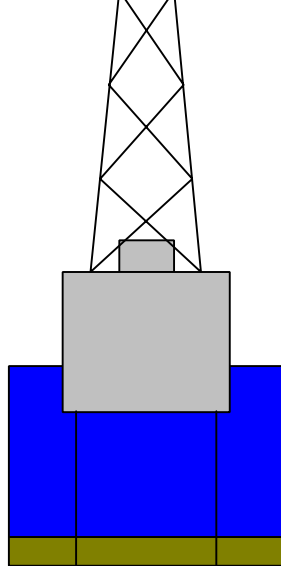
Derrick Floor Elevation

Mean Sea Level

11.3

11.0

0.0



11.0 5.000

Casing String

959.0 9.875

1017.0 5.000

Borehole Segment

Casing Shoe

**Schlumberger**

MAIN PASS

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 307 Site U1306C

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_003LUP	FN:3	PRODUCER	08-May-2005 06:25	1106.4 M	915.8 M
REDUCED	PI_LDL_APS_NGS_003LUP	FN:4	PRODUCER	08-May-2005 06:25	1106.4 M	915.8 M

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	DTA-A	12C0-301
HLDS	12C0-301	NPLC-B	12C0-301
APS-C	12C0-301	HNGS-BA	12C0-301
DTC-H	12C0-301		

PIP SUMMARY

Time Mark Every 60 S

Tension (TENS)

HNGS Spectroscopy Gamma Ray  
(HSGR)  
(GAPI) 0 100

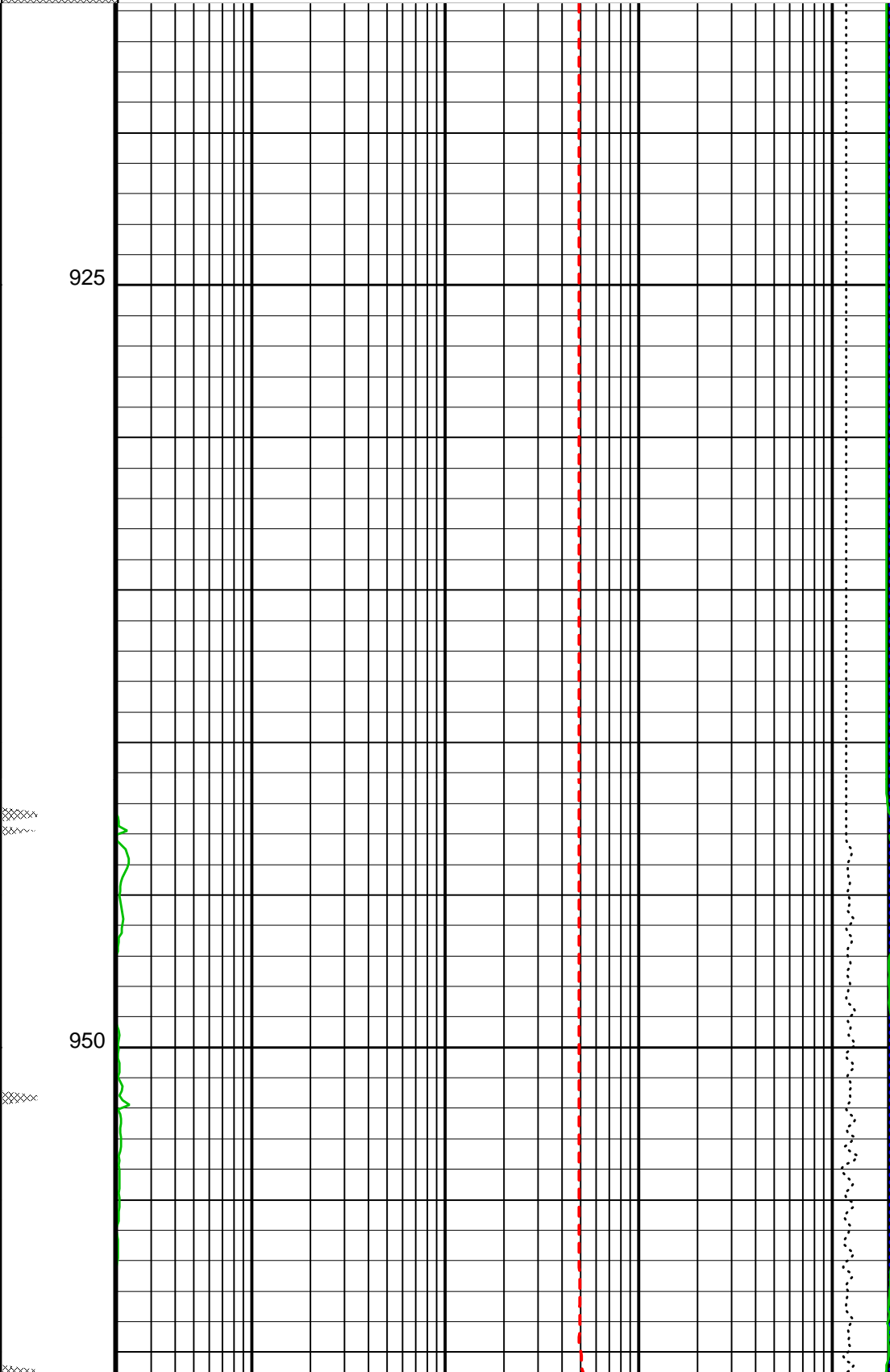
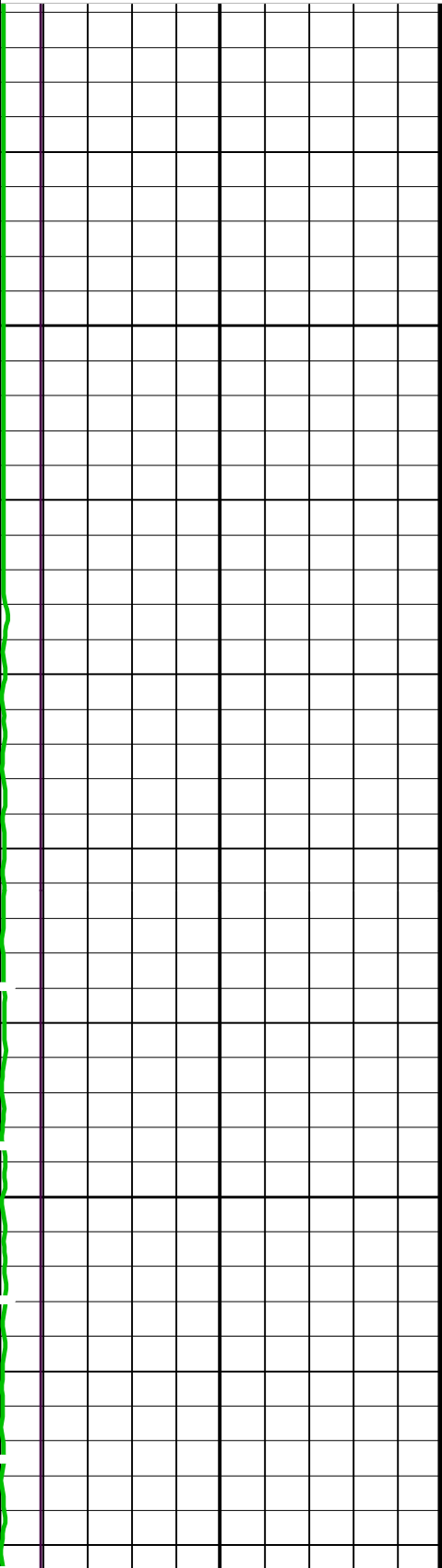
HLDS Caliper (LCAL)  
(IN) 0 20

ID\_QUAL  
From  
IMQF to  
IDQF

SFL Unaveraged (SFLU)  
0.2 (OHMM) 2000

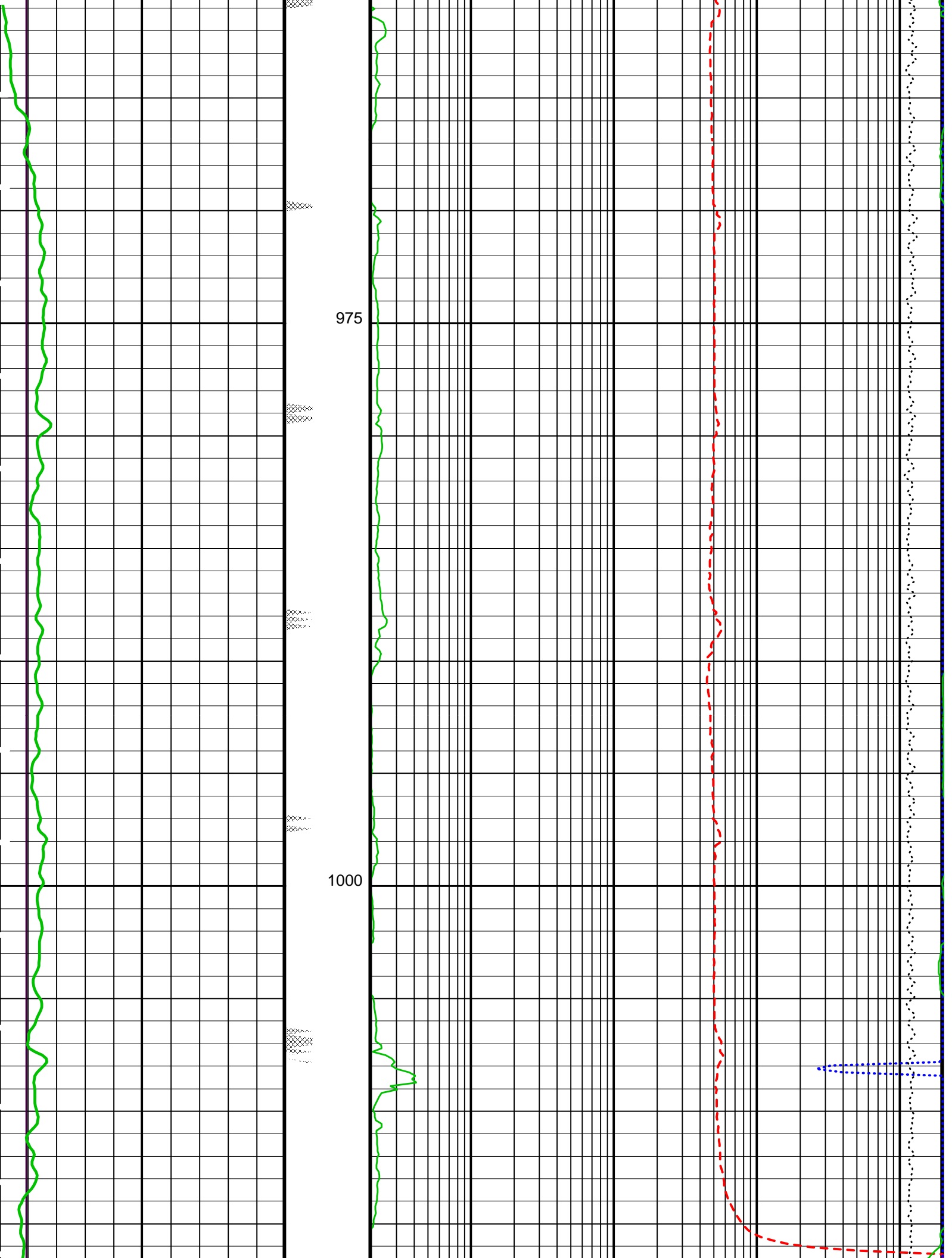
Medium Induction Phasor-processed Resistivity (IMPH)  
0.2 (OHMM) 2000

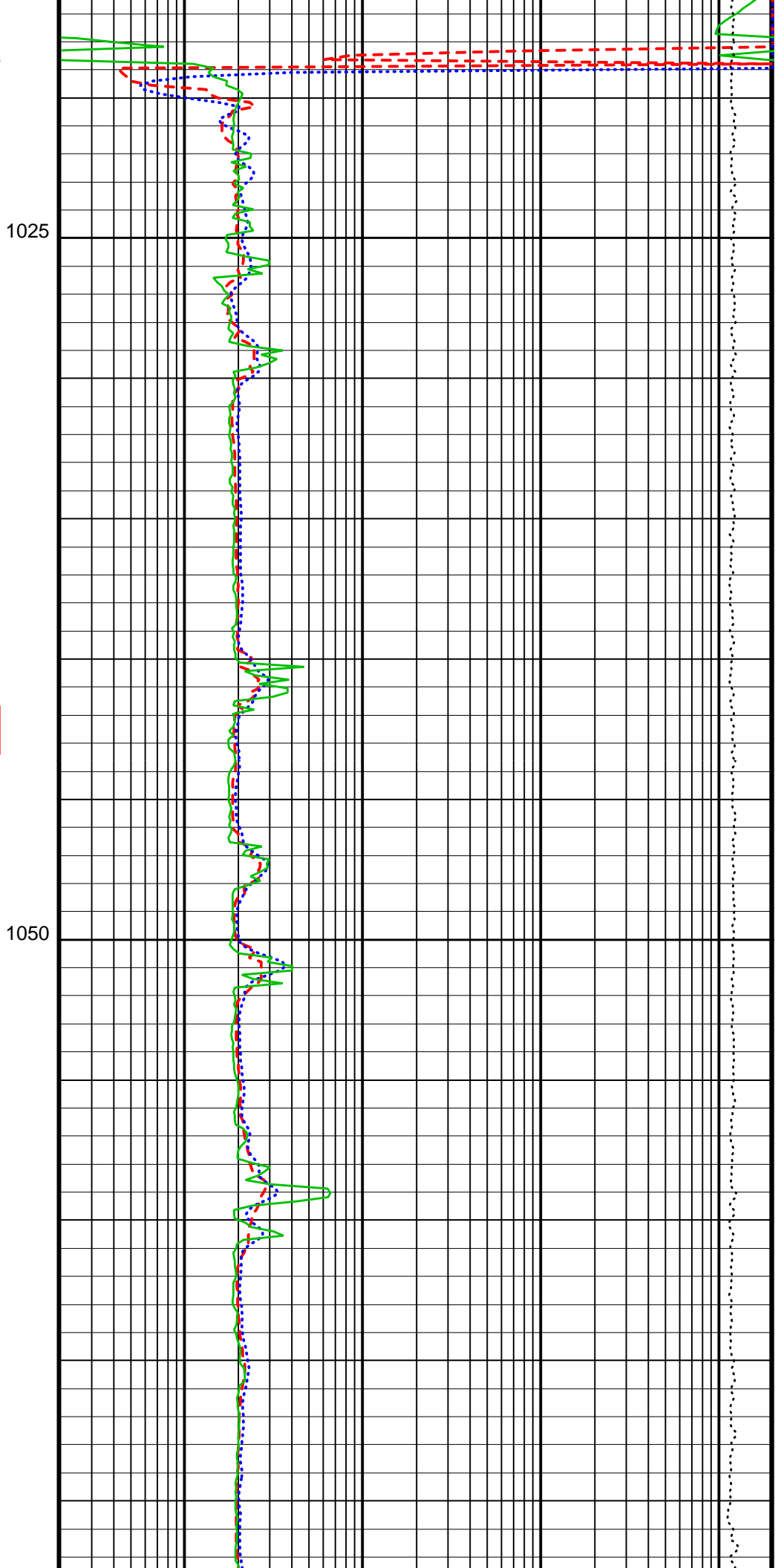
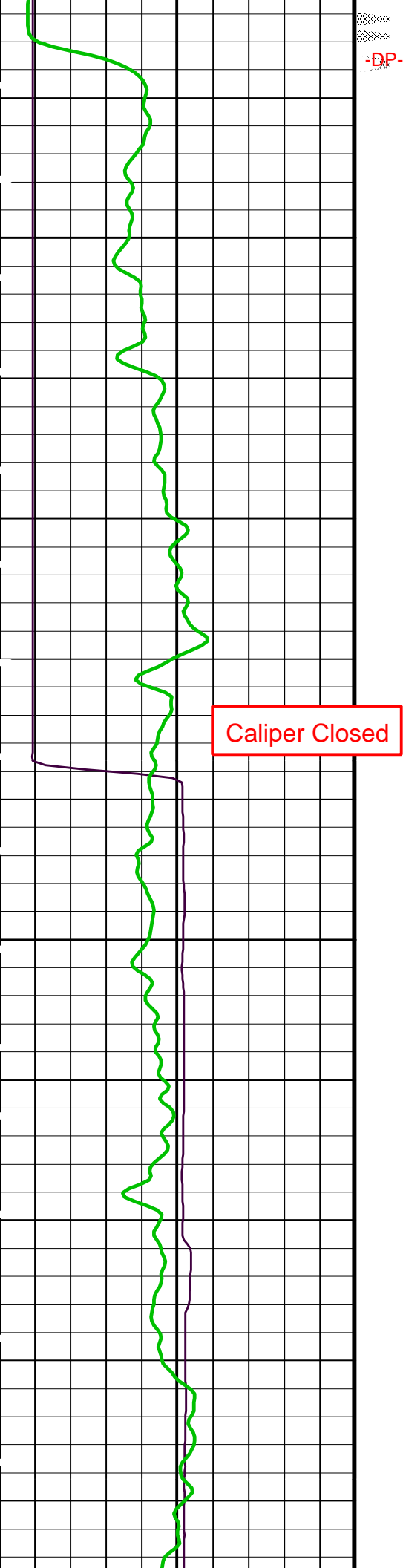
Deep Induction Phasor-processed Resistivity (IDPH)  
0.2 (OHMM) 2000



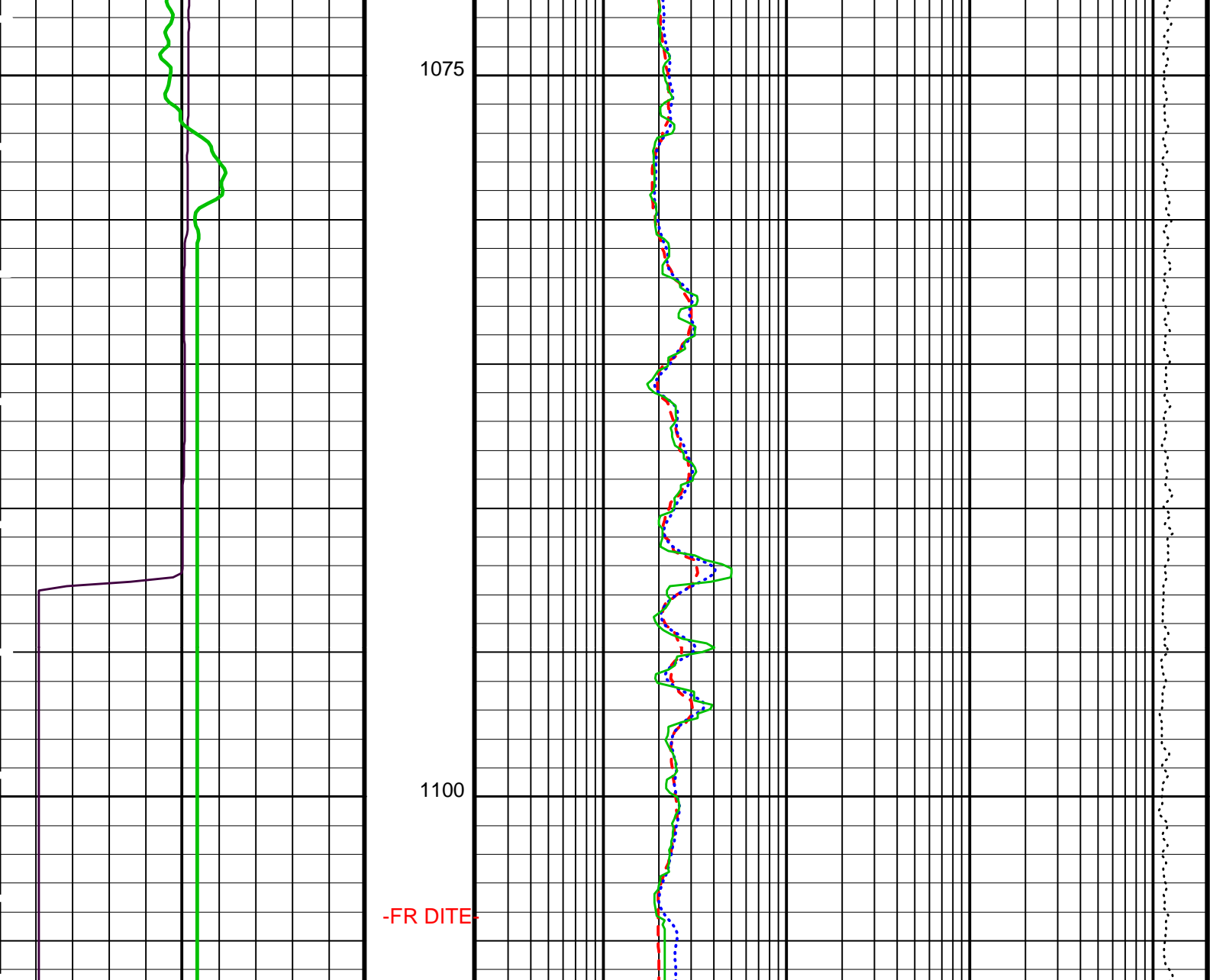
925

950









HLDS Caliper (LCAL) (IN)	0	20	ID_QUAL From IMQF to IDQF	Deep Induction Phasor-processed Resistivity (IDPH) (OHMM)	0.2	2000
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	0	100		Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)	0.2	2000
				SFL Unaveraged (SFLU) (OHMM)	0.2	2000
				Tension (TENS) (LBF)	11000	1000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DIT-E: Dual Induction - E		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	100 DEGC
DGF2	Deep 20 kHz Gain Factor	1.02064
DPH2	Deep 20 kHz Phase Shift	-0.243728 DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	16.6208 MM/M

DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	64.8082	MM/M
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
IFRS	DIT-E Induction Frequency Selector	20	
IPHA	DIT-E Phasor Processing Mode	ALL	
IPRO	DIT-E Induction Processing Selector	PHASOR	
ITEN	DIT-E Temperature Enable	ENABLE	
MGF2	Medium 20 kHz Gain Factor	1	
MPH2	Medium 20 kHz Phase Shift	0	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	-2.31932	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	-31.8992	MM/M
SFCR	SFL Channel Ratio	1000	
SHT	Surface Hole Temperature	20	DEGC
APS-C: Accelerator-Porosity Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00268983	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.940817	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.917494	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.07	G/C3
TD	Total Depth	1102	M

Format: DITE\_LogPhasor Vertical Scale: 1:200 Graphics File Created: 08-May-2005 06:25

## OP System Version: 12C0-301

MCM

DIT-E	12C0-301	DTA-A	12C0-301
HLDS	12C0-301	NPLC-B	12C0-301
APS-C	12C0-301	HNGS-BA	12C0-301
DTC-H	12C0-301		

## Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_003LUP	FN:3	PRODUCER	08-May-2005 06:25
REDUCED	PI_LDL_APS_NGS_003LUP	FN:4	PRODUCER	08-May-2005 06:25

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 13-Apr-2005 14:57 Before: 4-May-2005 10:16							
SS Cs Resolution Bkg	9.000	8.327	8.278	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.844	8.838	N/A	N/A	1.800	%
LSW1 Background	100.0	85.93	84.50	N/A	N/A	3.000	CPS
LSW2 Background	100.0	79.37	78.34	N/A	N/A	3.000	CPS
LSW3 Background	200.0	173.9	172.4	N/A	N/A	6.000	CPS
LSW4 Background	250.0	212.7	211.2	N/A	N/A	7.500	CPS
LSW5 Background	600.0	496.4	493.5	N/A	N/A	18.00	CPS
SSW1 Background	100.0	84.01	84.96	N/A	N/A	3.000	CPS
SSW2 Background	200.0	151.0	153.7	N/A	N/A	6.000	CPS
SSW3 Background	500.0	416.8	414.9	N/A	N/A	15.00	CPS
SSW4 Background	270.0	219.0	219.7	N/A	N/A	8.100	CPS
SSW5 Background	200.0	159.0	158.9	N/A	N/A	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement							
Master: 13-Apr-2005 15:41							
LSW1 Aluminum	600.0	631.9	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	923.0	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	1128	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	571.2	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	531.9	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	3024	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	8390	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	11660	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	4884	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	644.8	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement							
Master: 13-Apr-2005 15:35							
LSW1 Iron	400.0	430.0	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	733.6	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	986.9	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	515.9	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	489.1	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	2212	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	6952	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	10570	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	4424	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	563.2	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 4-May-2005 10:20							
HLDS Caliper Small Ring	8.000	N/A	10.61	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	14.67	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 22-Mar-2005 20:56 Before: 4-May-2005 10:17							
Near Det Bkg Cntrate	30.00	25.38	25.71	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	25.40	26.37	N/A	N/A	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.70	26.09	N/A	N/A	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	25.69	27.22	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	25.67	24.20	N/A	N/A	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 22-Mar-2005 20:56							
Near/Far Calibration Ratio	0.9250	0.9625	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	0.9914	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	0.9985	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration - Tank Check							
Master: 22-Mar-2005 20:56							
Array-1 Standoff Porosity	11.75	11.97	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.85	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.825	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9952	N/A	N/A	N/A	N/A	

Array-2 SDT Ratio Up/Down	1.000	1.006	N/A	N/A	N/A	N/A	N/A	CU
Sigma Formation	27.50	27.53	N/A	N/A	N/A	N/A	N/A	

Accelerator-Porosity Tool Wellsite Calibration - CCR7 signal boxes

Master: 22-Mar-2005 20:56

Near Detector Plateau Setting	1650	1741	N/A	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2082	N/A	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1973	N/A	N/A	N/A	N/A	N/A	V

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 4-May-2005 10:11 Before: 4-May-2005 10:17

Na 511 Peak Loc	40.00	40.62	40.84	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.96	15.95	N/A	N/A	2.000	%
High Voltage	1150	1255	1255	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	144.8	144.7	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.982	9.411	N/A	N/A	2.000	%
Temperature	15.50	18.00	18.01	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	42.26	42.82	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 4-May-2005 10:11 Before: 4-May-2005 10:17

Na 511 Peak Loc	40.00	40.54	40.56	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.66	16.93	N/A	N/A	2.000	%
High Voltage	1150	1274	1275	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	144.2	144.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.777	9.984	N/A	N/A	2.000	%
Temperature	15.50	17.18	17.20	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	42.45	43.34	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2

Master: 4-May-2005 10:11 Before: 4-May-2005 10:17

Coincidence Count Rate Ratio	1.000	0.9936	0.9895	N/A	N/A	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 4-May-2005 10:06

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	208.9	--	--	--	--	
Th Peak Res	7.000	8.099	--	--	--	--	%
Background Count Rate	142.5	21.35	--	--	--	--	CPS
Gain Ratio	1.000	0.9786	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 4-May-2005 10:06

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	207.3	--	--	--	--	
Th Peak Res	7.000	8.237	--	--	--	--	%
Background Count Rate	142.5	22.15	--	--	--	--	CPS
Gain Ratio	1.000	0.9731	--	--	--	--	

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting	1741 V
Far Detector Plateau Setting	2082 V
Array Detector Plateau Setting	1973 V

Dual Induction - E / Equipment Identification

Primary Equipment:

Dual Induction Sonde	DIS - HB	442
Dual Induction Cartridge	DIC - EB	438

Auxiliary Equipment:

Mass Isolated Housing	MIH - ZA
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Dual Induction - E Wellsite Calibration

Induction Electronics (10 kHz)

Phase	ID Elect Real Offset 10 kHz	MM/M	Value	Phase	ID Elect Real Gain 10 kHz	Value	Phase	ID Elect Phase 10 kHz	DEG	Value	
Before			39.56	Before		1.015	Before			8.777	
	-260.8 (Minimum)	39.24 (Nominal)	339.2 (Maximum)		0.8596 (Minimum)	1.010 (Nominal)	1.214 (Maximum)		-0.7861 (Minimum)	9.214 (Nominal)	19.21 (Maximum)
Phase	ID Elect Quad Offset 10 kHz	MM/M	Value	Phase	ID Elect Quad Gain 10 kHz	Value	Phase	IM Elect Phase 10 kHz	DEG	Value	
Before			24.27	Before		1.003	Before			13.38	

-276.2 (Minimum) 23.78 (Nominal) 323.8 (Maximum)			0.8494 (Minimum) 0.9994 (Nominal) 1.199 (Maximum)			3.832 (Minimum) 13.83 (Nominal) 23.83 (Maximum)		
Phase	IM Elect Real Offset 10 kHz	MM/M	Value	Phase	IM Elect Real Gain 10 kHz	Value		
Before			98.11	Before		0.9546		
	-453.1 (Minimum)	96.90 (Nominal)	646.9 (Maximum)		0.8089 (Minimum)	0.9589 (Nominal)	1.142 (Maximum)	
Phase	IM Elect Quad Offset 10 kHz	MM/M	Value	Phase	IM Elect Quad Gain 10 kHz	Value		
Before			96.48	Before		0.9518		
	-454.8 (Minimum)	95.22 (Nominal)	645.2 (Maximum)		0.8065 (Minimum)	0.9565 (Nominal)	1.139 (Maximum)	

Before: 4-May-2005 10:14

Dual Induction - E Wellsite Calibration											
Induction Electronics (20 kHz)											
Phase	ID Elect Real Offset 20 kHz	MM/M	Value	Phase	ID Elect Real Gain 20 kHz	Value	Phase	ID Elect Phase 20 kHz	DEG	Value	
Before			15.30	Before		1.020	Before			7.291	
	-109.9 (Minimum)	15.07 (Nominal)	140.1 (Maximum)		0.8601 (Minimum)	1.010 (Nominal)	1.214 (Maximum)		-7.449 (Minimum)	7.551 (Nominal)	22.55 (Maximum)
Phase	ID Elect Quad Offset 20 kHz	MM/M	Value	Phase	ID Elect Quad Gain 20 kHz	Value	Phase	IM Elect Phase 20 kHz	DEG	Value	
Before			9.570	Before		1.008	Before			12.09	
	-115.6 (Minimum)	9.373 (Nominal)	134.4 (Maximum)		0.8497 (Minimum)	0.9997 (Nominal)	1.200 (Maximum)		-2.658 (Minimum)	12.34 (Nominal)	27.34 (Maximum)
Phase	IM Elect Real Offset 20 kHz	MM/M	Value	Phase	IM Elect Real Gain 20 kHz	Value					
Before			40.87	Before		1.012					
	-184.8 (Minimum)	40.18 (Nominal)	265.2 (Maximum)		0.8536 (Minimum)	1.004 (Nominal)	1.205 (Maximum)				
Phase	IM Elect Quad Offset 20 kHz	MM/M	Value	Phase	IM Elect Quad Gain 20 kHz	Value					
Before			40.29	Before		1.009					
	-185.4 (Minimum)	39.62 (Nominal)	264.6 (Maximum)		0.8510 (Minimum)	1.001 (Nominal)	1.201 (Maximum)				

Before: 4-May-2005 10:15

Dual Induction - E Wellsite Calibration											
Induction Electronics (40 kHz)											
Phase	ID Elect Real Offset 40 kHz	MM/M	Value	Phase	ID Elect Real Gain 40 kHz	Value	Phase	ID Elect Phase 40 kHz	DEG	Value	
Before			9.904	Before		0.9918	Before			27.05	
	-75.27 (Minimum)	9.729 (Nominal)	94.73 (Maximum)		0.8369 (Minimum)	0.9869 (Nominal)	1.182 (Maximum)		7.238 (Minimum)	27.24 (Nominal)	47.24 (Maximum)
Phase	ID Elect Quad Offset 40 kHz	MM/M	Value	Phase	ID Elect Quad Gain 40 kHz	Value	Phase	IM Elect Phase 40 kHz	DEG	Value	
Before			6.161	Before		0.9789	Before			31.69	
	-78.94 (Minimum)	6.062 (Nominal)	91.06 (Maximum)		0.8259 (Minimum)	0.9759 (Nominal)	1.166 (Maximum)		11.87 (Minimum)	31.87 (Nominal)	51.87 (Maximum)
Phase	IM Elect Real Offset 40 kHz	MM/M	Value	Phase	IM Elect Real Gain 40 kHz	Value					
Before			26.63	Before		1.026					
	-103.8 (Minimum)	26.23 (Nominal)	156.2 (Maximum)		0.8659 (Minimum)	1.016 (Nominal)	1.222 (Maximum)				
Phase	IM Elect Quad Offset 40 kHz	MM/M	Value	Phase	IM Elect Quad Gain 40 kHz	Value					
Before			26.34	Before		1.023					
	-104.1 (Minimum)	25.93 (Nominal)	155.9 (Maximum)		0.8629 (Minimum)	1.013 (Nominal)	1.218 (Maximum)				

Before: 4-May-2005 10:16

Dual Induction - E Wellsite Calibration							
SFL Electronics							
Phase	SFL Voltage Offset	MV	Value	Phase	SFL Voltage Gain	Value	
Before			1.275	Before		1.018	
	-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Phase	SFL Current Offset	MA	Value	Phase	SFL Current Gain	Value	
Before			0.007354	Before		0.9952	
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

Before: 4-May-2005 10:16

Dual Induction - E Master Calibration



Master		496.4	Master		84.01	Master		151.0			
Before		493.5	Before		84.96	Before		153.7			
330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)					
Phase	SSW3 Background CPS		Value	Phase	SSW4 Background CPS		Value	Phase	SSW5 Background CPS		Value
Master		416.8	Master		219.0	Master		159.0			
Before		414.9	Before		219.7	Before		158.9			
280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)			150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)					
Master: 13-Apr-2005 14:57						Before: 4-May-2005 10:16					

Hostile Litho-Density Sonde Master Calibration														
Detector Background Measurement														
Phase	LSW1 Background CPS			Value	Phase	LSW2 Background CPS			Value	Phase	LSW3 Background CPS			Value
Master		85.93	Master		79.37	Master		173.9						
55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)				50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)				110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)						
Phase	LSW4 Background CPS			Value	Phase	LSW5 Background CPS			Value	Phase	LS Cs Resolution Bkg %			Value
Master		212.7	Master		496.4	Master		8.844						
140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)				330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)				7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)						
Phase	SSW1 Background CPS			Value	Phase	SSW2 Background CPS			Value	Phase	SSW3 Background CPS			Value
Master		84.01	Master		151.0	Master		416.8						
55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)				100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)				280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)						
Phase	SSW4 Background CPS			Value	Phase	SSW5 Background CPS			Value	Phase	SS Cs Resolution Bkg %			Value
Master		219.0	Master		159.0	Master		8.327						
150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)				110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)				7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)						
Master: 13-Apr-2005 14:57														

Hostile Litho-Density Sonde Master Calibration														
Detector Aluminum Measurement (bkgd-subtracted)														
Phase	LSW1 Aluminum CPS			Value	Phase	LSW2 Aluminum CPS			Value	Phase	LSW3 Aluminum CPS			Value
Master		631.9	Master		923.0	Master		1128						
420.0 (Minimum) 600.0 (Nominal) 700.0 (Maximum)				650.0 (Minimum) 900.0 (Nominal) 1050 (Maximum)				800.0 (Minimum) 1100 (Nominal) 1300 (Maximum)						
Phase	LSW4 Aluminum CPS			Value	Phase	LSW5 Aluminum CPS			Value	Phase	SSW1 Aluminum CPS			Value
Master		571.2	Master		531.9	Master		3024						
410.0 (Minimum) 580.0 (Nominal) 670.0 (Maximum)				410.0 (Minimum) 570.0 (Nominal) 660.0 (Maximum)				2000 (Minimum) 2800 (Nominal) 3200 (Maximum)						
Phase	SSW2 Aluminum CPS			Value	Phase	SSW3 Aluminum CPS			Value	Phase	SSW4 Aluminum CPS			Value
Master		8390	Master		11660	Master		4884						
5800 (Minimum) 8000 (Nominal) 9300 (Maximum)				8300 (Minimum) 11600 (Nominal) 13500 (Maximum)				3500 (Minimum) 5000 (Nominal) 5800 (Maximum)						
Phase	SSW5 Aluminum CPS			Value										
Master		644.8												
470.0 (Minimum) 660.0 (Nominal) 770.0 (Maximum)														
Master: 13-Apr-2005 15:41														

Hostile Litho-Density Sonde Master Calibration														
Detector Litholog Measurement (bkgd-subtracted)														
Phase	LSW1 Iron CPS			Value	Phase	LSW2 Iron CPS			Value	Phase	LSW3 Iron CPS			Value
Master		430.0	Master		733.6	Master		986.9						
290.0 (Minimum) 400.0 (Nominal) 470.0 (Maximum)				520.0 (Minimum) 730.0 (Nominal) 850.0 (Maximum)				720.0 (Minimum) 1000 (Nominal) 1160 (Maximum)						
Phase	LSW4 Iron CPS			Value	Phase	LSW5 Iron CPS			Value	Phase	SSW1 Iron CPS			Value
Master		515.9	Master		489.1	Master		2212						
370.0 (Minimum) 520.0 (Nominal) 600.0 (Maximum)				340.0 (Minimum) 470.0 (Nominal) 550.0 (Maximum)				1500 (Minimum) 2100 (Nominal) 2400 (Maximum)						
Phase	SSW2 Iron CPS			Value	Phase	SSW3 Iron CPS			Value	Phase	SSW4 Iron CPS			Value
Master		6952	Master		10570	Master		4424						
4900 (Minimum) 6800 (Nominal) 7900 (Maximum)				7800 (Minimum) 10800 (Nominal) 12600 (Maximum)				3300 (Minimum) 4600 (Nominal) 5400 (Maximum)						



(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
Phase	SSW5 Iron CPS			Value	
Master				563.2	
	420.0 (Minimum)	580.0 (Nominal)	680.0 (Maximum)		

Master: 13-Apr-2005 15:35

Hostile Litho-Density Sonde Master Calibration											
Quality Ratios											
Phase	AL CALIBRATION RATIO 1			Value		Phase	AL CALIBRATION RATIO 2			Value	
Master				1.023		Master				2.109	
	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)				1.900 (Minimum)	2.100 (Nominal)	2.300 (Maximum)		
Phase	AL CALIBRATION RATIO 3			Value		Phase	AL CALIBRATION RATIO 4			Value	
Master				0.5728		Master				0.5470	
	0.4500 (Minimum)	0.5500 (Nominal)	0.6500 (Maximum)				0.4500 (Minimum)	0.5500 (Nominal)	0.6500 (Maximum)		
Phase	Pad-Wear SS Ratio			Value		Phase	Pad-Wear LS Ratio			Value	
Master				0.9845		Master				0.9807	
	0.9800 (Minimum)	0.9880 (Nominal)	0.9960 (Maximum)				0.9800 (Minimum)	0.9880 (Nominal)	0.9960 (Maximum)		
Phase	Pad-Position SS Ratio			Value		Phase	Pad-Position LS Ratio			Value	
Master				1.006		Master				0.9882	
	0.9900 (Minimum)	0.9940 (Nominal)	1.015 (Maximum)				0.9850 (Minimum)	0.9940 (Nominal)	1.010 (Maximum)		

Master: 13-Apr-2005 15:22

Nuclear Porosity Lithology Cartridge - B / Equipment Identification			
Primary Equipment:	NPLC Cartridge	NPLC - B	79
Auxiliary Equipment:	NPLC Housing	NPH - B	82

Accelerator-Porosity Tool / Equipment Identification			
Primary Equipment:	Accelerator-Porosity Sonde	APS - C	202
	APS Minitron	MNTR - F	5124
Auxiliary Equipment:	Accelerator-Porosity Housing	APH - AC	104
	APS Calibration Water Tank	SFT - 178	6250
	APS Aluminum Calibrator Sleeve	SFT - 281	6250

Accelerator-Porosity Tool Wellsite Calibration											
Detector Background											
Phase	Near Det Bkg Cntrate CPS			Value		Phase	Far Det Bkg Cntrate CPS			Value	
Master				25.38		Master				25.40	
Before				25.71		Before				26.37	
	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)				1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)		
Phase	Array-1 Det Bkg Cntrate CPS			Value		Phase	Array-2 Det Bkg Cntrate CPS			Value	
Master				28.70		Master				25.69	
Before				26.09		Before				27.22	
	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)				1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)		
Phase	Array Therm Det Bkg Cntrate CPS			Value		Phase	Array Therm Det Bkg Cntrate CPS			Value	
Master				25.67		Master				25.67	
Before				24.20		Before				24.20	
	1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)				1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)		

Master: 22-Mar-2005 20:56      Before: 4-May-2005 10:17

Accelerator-Porosity Tool Wellsite Calibration											
Calibration Ratios											
Phase	Near/Far Calibration Ratio			Value		Phase	Near/Array Calibration Ratio			Value	
Master				0.9625		Master				0.9914	
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)				0.9000 (Minimum)	1.030 (Nominal)	1.170 (Maximum)		
Phase	Near/Array Cal Ratio Up/Down			Value		Phase	Near/Array Cal Ratio Up/Down			Value	
Master				0.9985		Master				0.9985	
	0.9700 (Minimum)	1.000 (Nominal)	1.030 (Maximum)				0.9700 (Minimum)	1.000 (Nominal)	1.030 (Maximum)		

Master: 22-Mar-2005 20:56



Accelerator-Porosity Tool Wellsite Calibration									
Tank Check									
Phase	Array-1 Standoff Porosity PU	Value	Phase	Array-2 Standoff Porosity PU	Value	Phase	Average Slowing Down Time US	Value	
Master		11.97	Master		11.85	Master		5.825	
	9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)		
Phase	Array-1 SDT Ratio Up/Down	Value	Phase	Array-2 SDT Ratio Up/Down	Value	Phase	Sigma Formation CU	Value	
Master		0.9952	Master		1.006	Master		27.53	
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)		

Master: 22-Mar-2005 20:56

Accelerator-Porosity Tool Master Calibration									
Detector Calibration									
Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value	Phase	Near/Array Cal Ratio Up/Down	Value	
Master		0.9625	Master		0.9914	Master		0.9985	
	0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)			0.9000 (Minimum) 1.030 (Nominal) 1.170 (Maximum)			0.9700 (Minimum) 1.000 (Nominal) 1.030 (Maximum)		

Master: 22-Mar-2005 20:56

Accelerator-Porosity Tool Master Calibration									
Tank Check									
Phase	Array-1 Standoff Porosity PU	Value	Phase	Array-2 Standoff Porosity PU	Value	Phase	Average Slowing Down Time US	Value	
Master		11.97	Master		11.85	Master		5.825	
	9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)		
Phase	Array-1 SDT Ratio Up/Down	Value	Phase	Array-2 SDT Ratio Up/Down	Value	Phase	Sigma Formation CU	Value	
Master		0.9952	Master		1.006	Master		27.53	
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)		

Master: 22-Mar-2005 20:56

Hostile Natural Gamma Ray Sonde / Equipment Identification			
Primary Equipment:	HNGS Sonde	HNGS - BA	77
Auxiliary Equipment:	HNGS Sonde Housing	HNSH - BA	
	Gamma Source Radioactive	GSR - U	135

Hostile Natural Gamma Ray Sonde Wellsite Calibration									
Detector 1 Check									
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		40.62	Master		16.96	Master		1255	
Before		40.84	Before		15.95	Before		1255	
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)		
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		144.8	Master		9.982	Master		18.00	
Before		144.7	Before		9.411	Before		18.01	
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)		
Phase	Na Count Rate CPS	Value							
Master		42.26							
Before		42.82							
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								

Master: 4-May-2005 10:11

Before: 4-May-2005 10:17

Hostile Natural Gamma Ray Sonde Wellsite Calibration									
Detector 2 Check									

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		40.54	Master		16.66	Master		1274	
Before		40.56	Before		16.93	Before		1275	
	37.50 (Minimum)	40.00 (Nominal)	42.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		144.2	Master		9.777	Master		17.18	
Before		144.8	Before		9.984	Before		17.20	
	135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS	Value							
Master		42.45							
Before		43.34							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 4-May-2005 10:11			Before: 4-May-2005 10:17						

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		0.9936	
Before		0.9895	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 4-May-2005 10:11			
Before: 4-May-2005 10:17			

Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 1 Calibration									
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value	
Master		41.00	Master		208.9	Master		8.099	
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value				
Master		21.35	Master		0.9786				
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)			
Master: 4-May-2005 10:06									

Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 2 Calibration									
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value	
Master		41.00	Master		207.3	Master		8.237	
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value				
Master		22.15	Master		0.9731				
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)	0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)			
Master: 4-May-2005 10:06									

Field: Porcupine Basin Carbonate Mounds  
Rig: Joides Resolution  
Country: Ireland

Dual Induction Tool

Gamma Ray