Schlumberger

Company: Lamont Doherty

Well: IODP EXP 308 Site 1320A
Field: Brazos Trinity Basin
Country: USA Ocean: Gulf Of Mexico

Country: USA
Field: Brazos Trinity Basin
Location: Rig- Joides Resolution
Well: IODP EXP 308 Site 1320A
Company: Lamont Doherty

Phasor Induction-HNGS

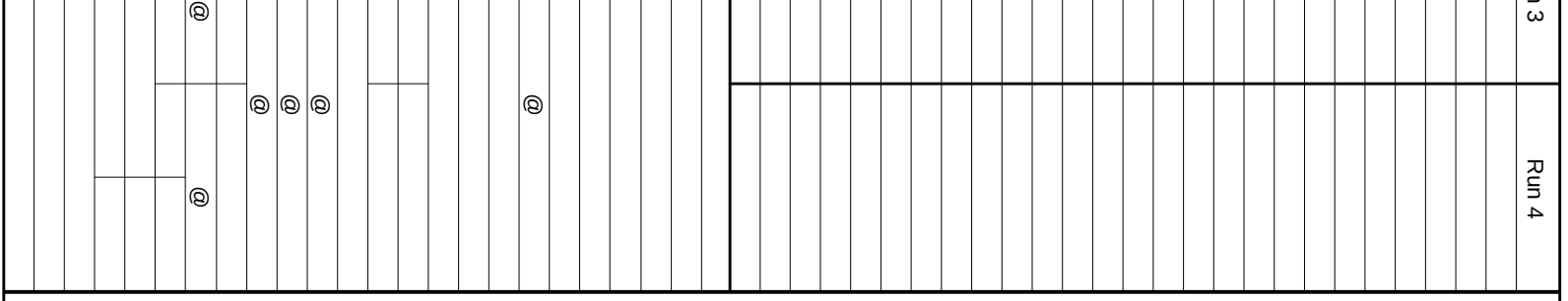
LOCATION

Rig- Joides Resolution	Elev.: K.B.	11.3 m
	G.L.	-1480.4 m
	D.F.	0 m
Permanent Datum: GROUND LEVEL	Elev.:	0 m
Log Measured From: DES	11.3 m	above Perm. Datum
Drilling Measured From: DES		

API Serial No.	Max. Hole Devi.	Longitude	Latitude
		W 94 23.2524	N 27 18.0816

	Run 1	Run 2	Run
Logging Date			
Run Number	1		
Depth Driller	1780 m		
Schlumberger Depth	1776 m		
Bottom Log Interval	1774 m		
Top Log Interval	1461 m		
Casing Driller Size @ Depth	0.000 in @ 1541.9 m	@	@
Casing Schlumberger	1540 m		
Bit Size	9.875 in		
Type Fluid In Hole	Sepiolite		
MUD Density / Viscosity	1.066 g/cm3		
MUD Fluid Loss / PH	0 cm3		
MUD Source Of Sample			
RM @ Measured Temperature	0.177 ohm.m @ 23 degC	@	@
RMF @ Measured Temperature	0.158 ohm.m @	@	@
RMC @ Measured Temperature	0.149 ohm.m @	@	@
Source RMF / RMC			
RM @ MRT / RMF @ MRT	0.199 @ 18	@ 18	@ @
Maximum Recorded Temperatures	18 degC		
Circulation Stopped / Time	6/9/05	1800	
Logger On Bottom / Time	6/10/05	See Log	
Unit Number / Location	99	Houston	
Recorded By	Steve Kittredge		
Witnessed By	Gerry Iturrino		

	Run 1	Run 2	Run
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD Density / Viscosity			
MUD Fluid Loss / PH			
MUD Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF / RMC			
RM @ MRT / RMF @ MRT	@	@	
Maximum Recorded Temperatures			
Circulation Stopped / Time			
Logger On Bottom / Time			
Unit Number / Location			
Recorded By			
Witnessed By			



DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: MESTB/DSI/SGTN	OS1:
OS2: WSTA	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole Cored With APC.	
All depths in Meters Below Rig Floor (MBRF).	
Hole flushed with Sepiolite	
Sea Floor Driller- 1480.4 MBRF.	
Sea Floor Logger- 1478 MBRF.	
Total Depth Driller- 1780 MBRF.	
Total Depth Logger- 1776 MBRF.	
Casing Bottom Driller- 1541.9 MBRF.	
Casing Bottom Logger- 1540 MBRF.	
Had Problems getting past washout at 1654.5 MBRF.	
Had some overpull coming through the sealbore	
with Go-Devil on bottom.	
After entering pipe the WHC was accidentally turned off	
allowing the sheave wheel to stroke out.	
This put the tool off depth 3 meters making the DITE sea floor	
measurement too shallow.	

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 12C0-301
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

SFT-281 6250
SFT-178 6250
GSR-U 135
WITM (DTS)-A

DOWNHOLE EQUIPMENT

LEH-QT — 29.91
LEH-QT

CTEM
DTC-H — TelStatus 28.74 — 29.02
ECH-KC 9841 — ToolStatu 28.11

HNGS-BA — Upper_1 27.41 — 28.11
HNGS-BA-27 — Lower_2 27.19

RUN 2

HNGS-BA 27
HNSH-BA 27

Lower_2 27.19

ILE-D 25.61
ILE-D 25

Status
Minitron
Near TD 20.73
Near Arr 20.65
Near 20.52
Far Arr 20.42
Far
Far TD

APS-C 23.17
APH-AC 104
APS-C 202
MNTR-F 5124

NPLC-B 19.23
NPLC-B 79
NPH-B 82

Status 18.00

HLDS 16.78
GSR-Z 2326
HLDV-D 35
HLDS-D 35
HEH-H 35
HLDP-C 35

Caliper
SS LS Status 12.73

DTA-A 11.96
ECH-KE
DTA-A 8261

GPIT-A/B 10.74
GPIC-A 840
GPIH-A

DIT-E 9.52
DIC-EB 171
MIH-ZA 174
DIS-HB 129

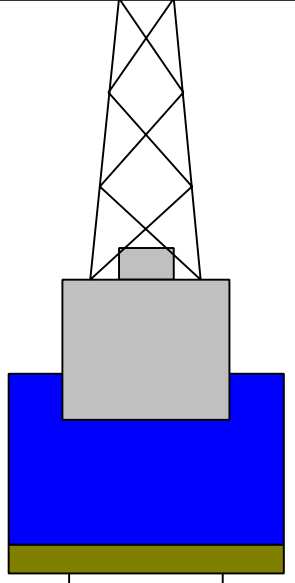
SP 3.15
Deep Ind 2.90
Aux Meas SFL 1.98
Med Ind 1.83

HV DF
Status GPIT
Tension 0.00

TOOL ZERO

MAXIMUM STRING DIAMETER 3.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

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

Kelly Bushing Elevation			11.3				
Mean Sea Level			0.0				
					0.0	5.500	4.000	Casing String
					1480.4	5.500	4.000	Casing Shoe
					1480.4	9.875		Borehole Segment
					1780.0	9.875		Borehole Segment Bottom

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MAIN PASS

MAXIS Field Log

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_029LUP	FN:10	PRODUCER	10-Jun-2005 00:18	1776.2 M	1461.1 M

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	GPIT-A/B	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

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	LCAL	1577.1 01:06:44

PIP SUMMARY

Time Mark Every 60 S

SFL_ QUAL From D3T to SFQF

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

IM_QUAL From SFQF to IMQF

SFL Unaveraged (SFLU)
0.2 (OHMM) 2000

Sonde Deviation (SDEVM)
0 (DEG) 10

ID_QUAL From IMQF to IDQF

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

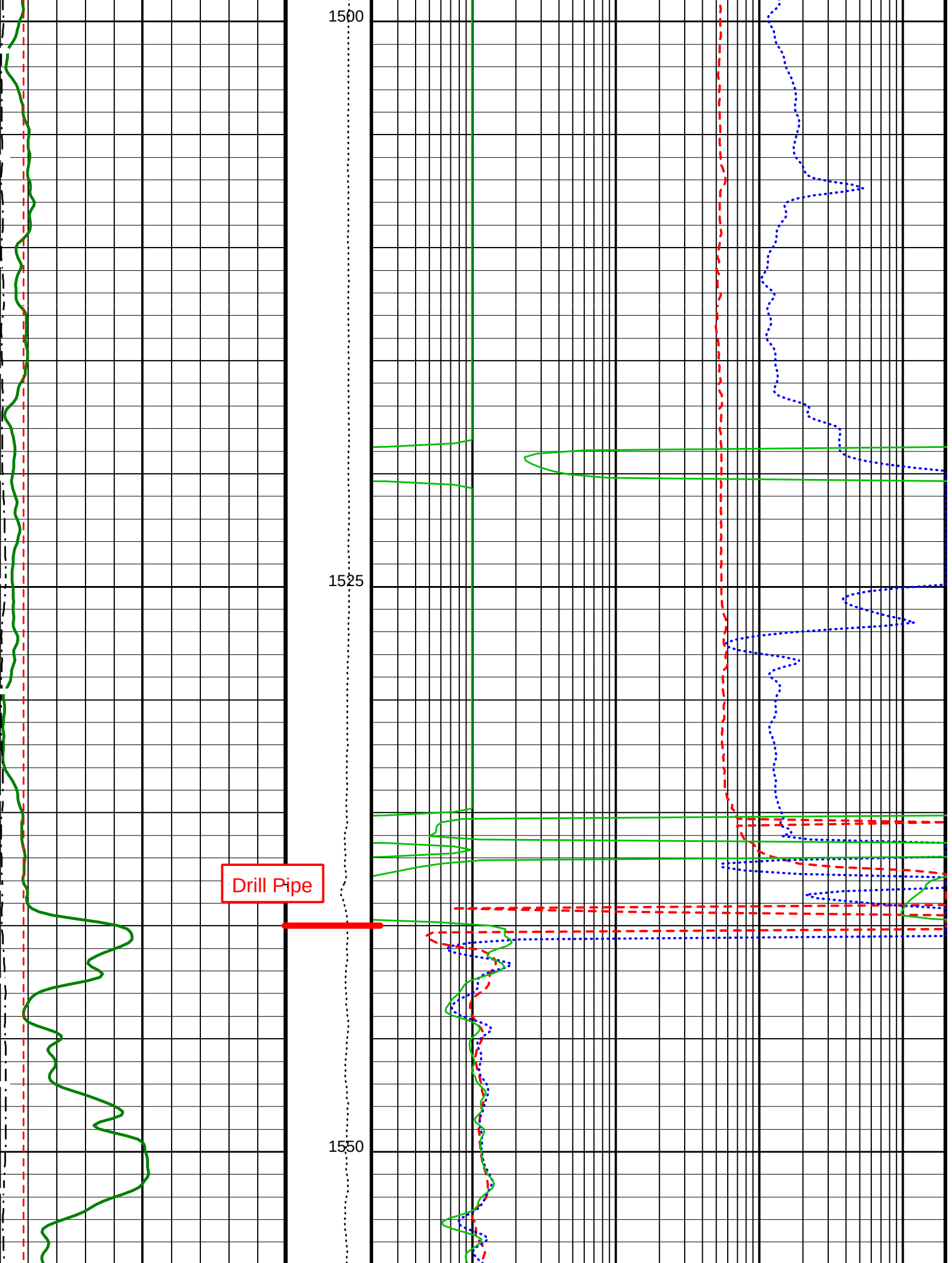
HLDS Caliper (LCAL)
0 (IN) 20

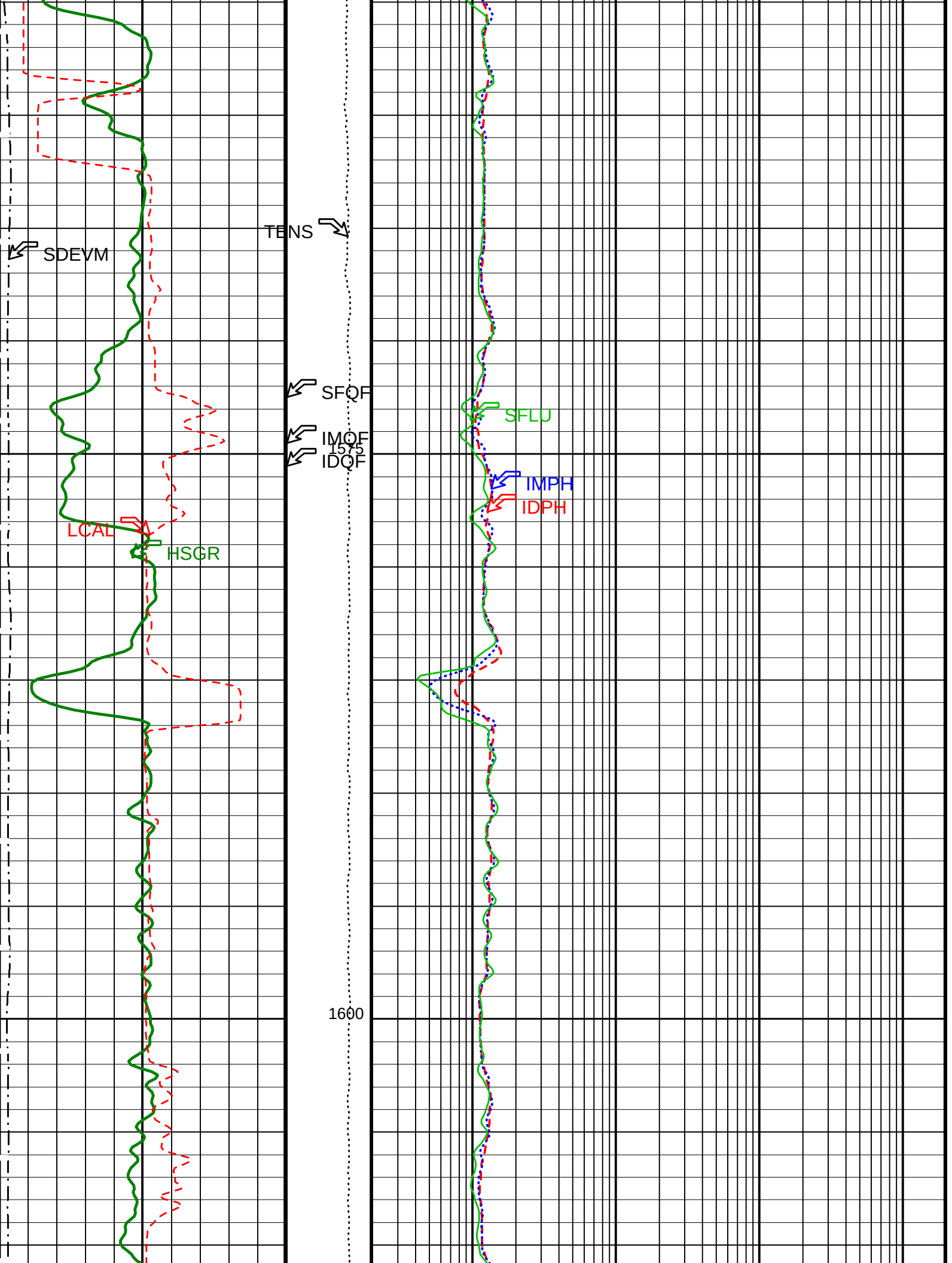
Tension (TENS) (LBF)
10000 0

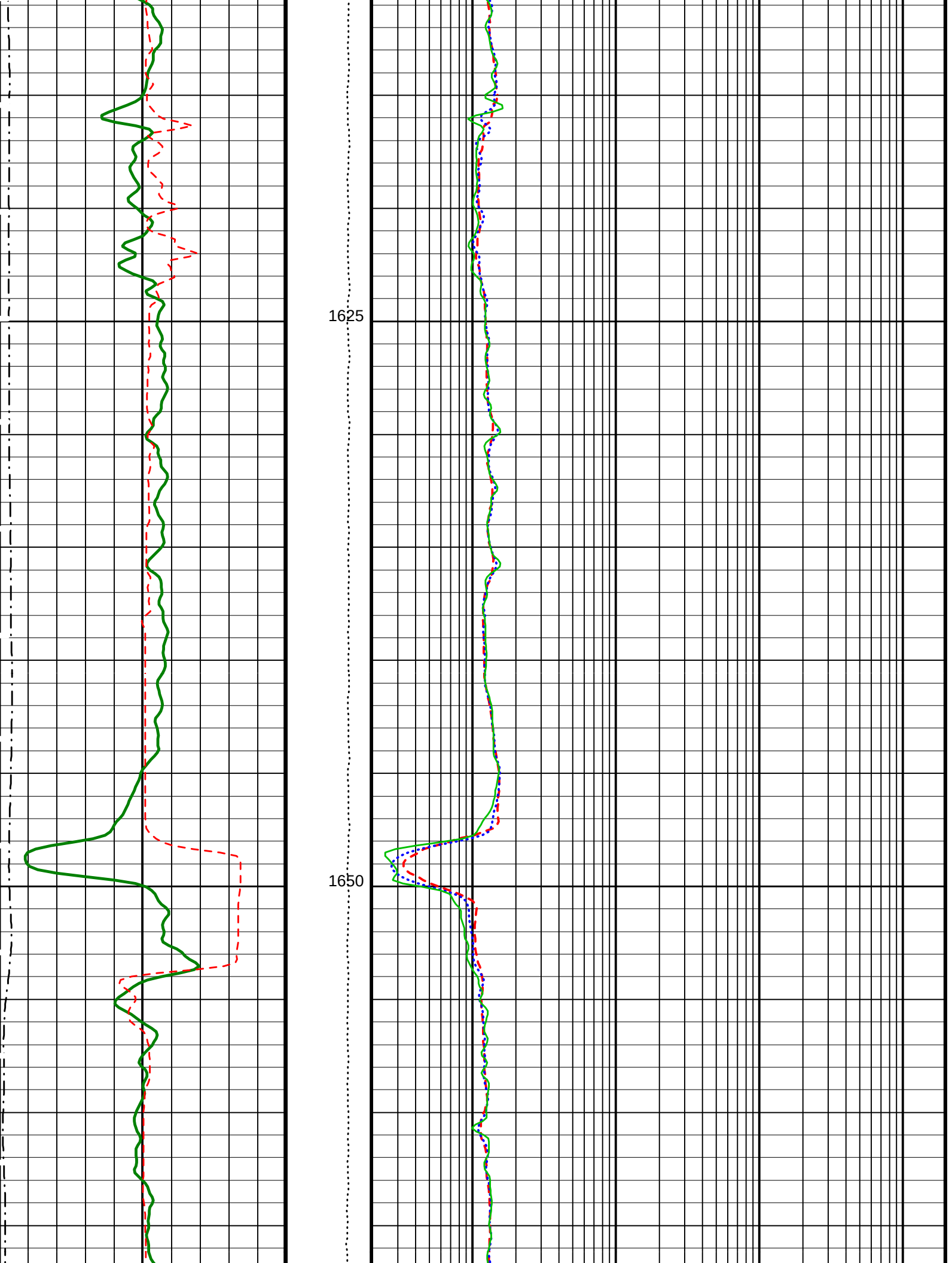
Deep Induction Phasor-processed Resistivity (IDPH)
0.2 (OHMM) 2000

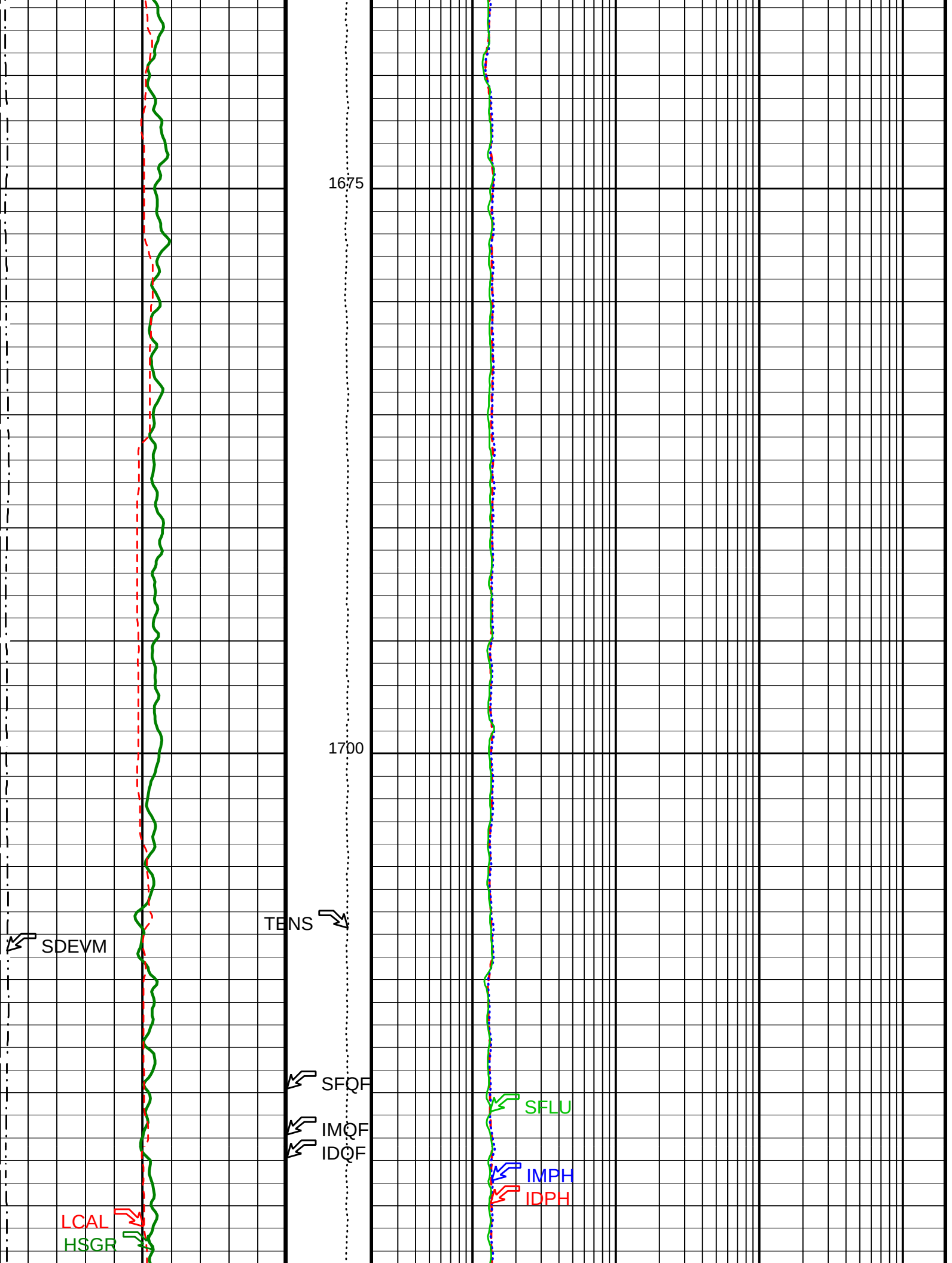
Last Reading

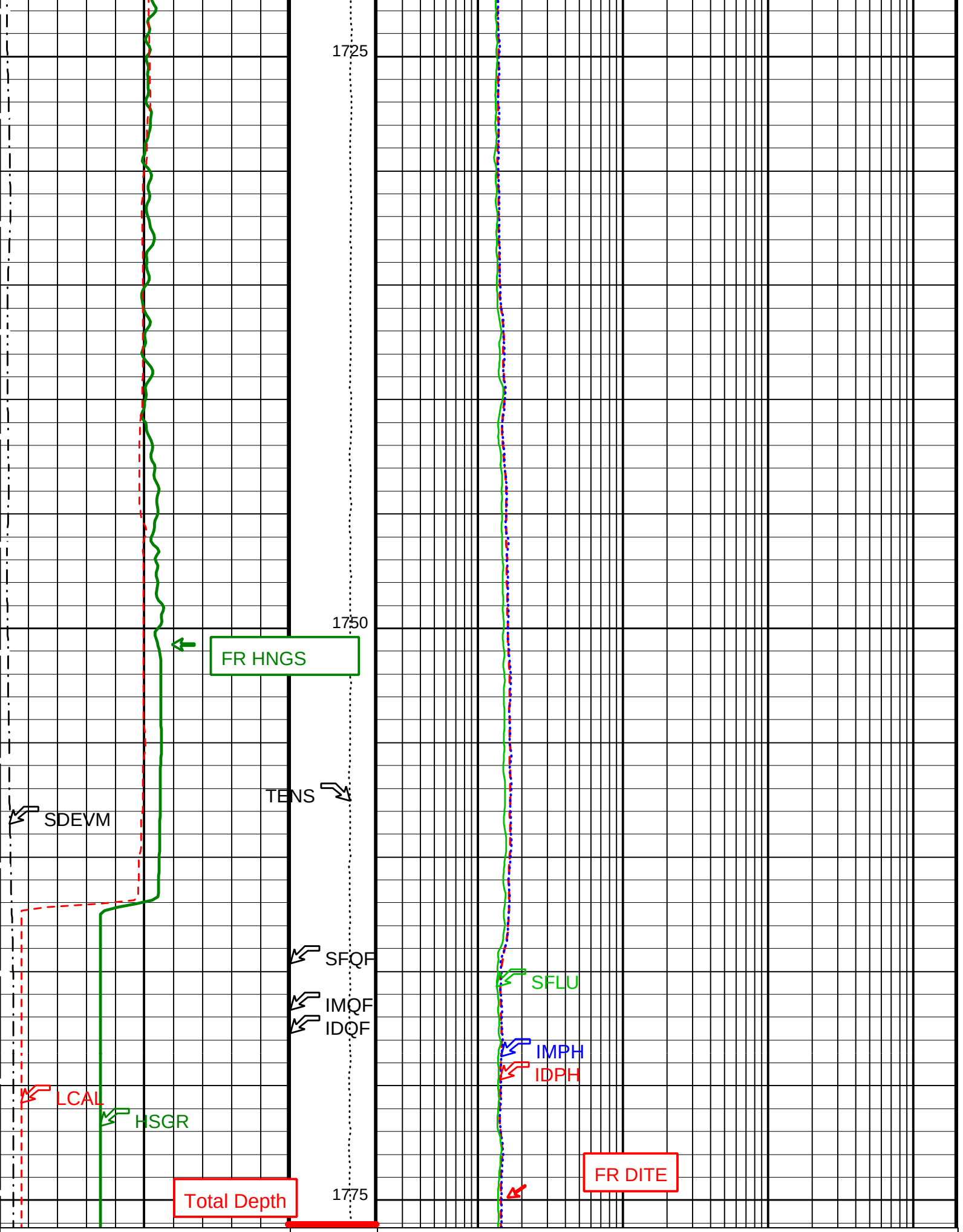
1475

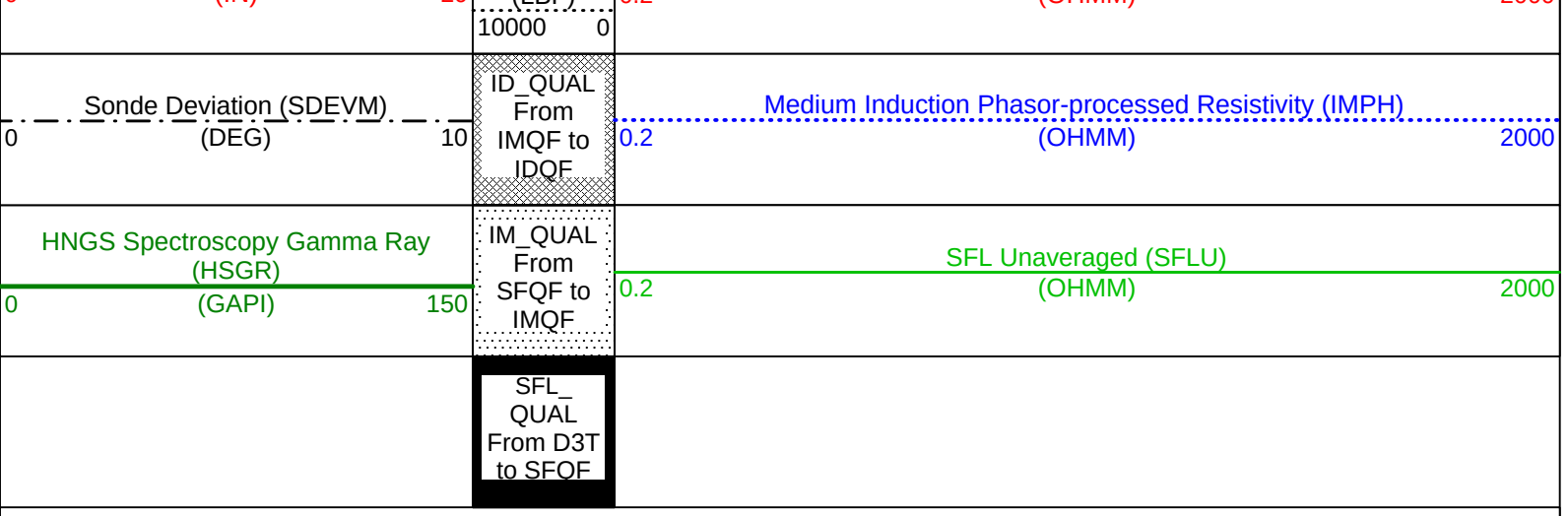

1500
1525
1550
Drill Pipe


TENS
SDEVM
SFQF
SFLU
IMQF
IDQF
1575
IMPH
IDPH
LCAL
HSGR
1600


1625
1650


1675
1700
TENS
SDEVM
SFQF
IMQF
IDQF
SFLU
IMPH
IDPH
LCAL
HSGR


1725
1750
1775
FR HNGS
TENS
SDEVM
SFQF
IMQF
IDQF
SFLU
IMPH
IDPH
LCAL
HSGR
Total Depth
FR DITE
HLDS Caliper (LCAL)
0
(IN)
20
Tension
(TENS)
(LBF)
Deep Induction Phasor-processed Resistivity (IDPH)
0.2
(OHMM)
2000



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)	25	DEGC
DGF2	Deep 20 kHz Gain Factor	0.995355	
DPH2	Deep 20 kHz Phase Shift	-0.0922008	DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	16.9993	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	136.258	MM/M
GCSE	Generalized Caliper Selection	LCAL	
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	1.00569	
MPH2	Medium 20 kHz Phase Shift	-0.95492	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	10.0198	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	179.002	MM/M
SFCR	SFL Channel Ratio	1000	
SHT	Surface Hole Temperature	20	DEGC
	GPIT-A/B: General Purpose Inclinometer		
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	3.64412	DEG
	APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
GCSE	Generalized Caliper Selection	LCAL	
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)	25	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	LCAL	
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	-0.000855322	
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	0.996435	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.979892	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
GCSE	Generalized Caliper Selection	LCAL	
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
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.07	G/C3
TD	Total Depth	1780	M

Format: DITE_LogPhasor Vertical Scale: 1:200 Graphics File Created: 10-Jun-2005 00:18

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	GPIT-A/B	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_029LUP	FN:10	PRODUCER	10-Jun-2005 00:18		

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REPEAT SECTION

MAXIS Field Log

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_028LUP	FN:9	PRODUCER	09-Jun-2005 23:53	1652.8 M	1579.6 M

OP System Version: 12C0-301

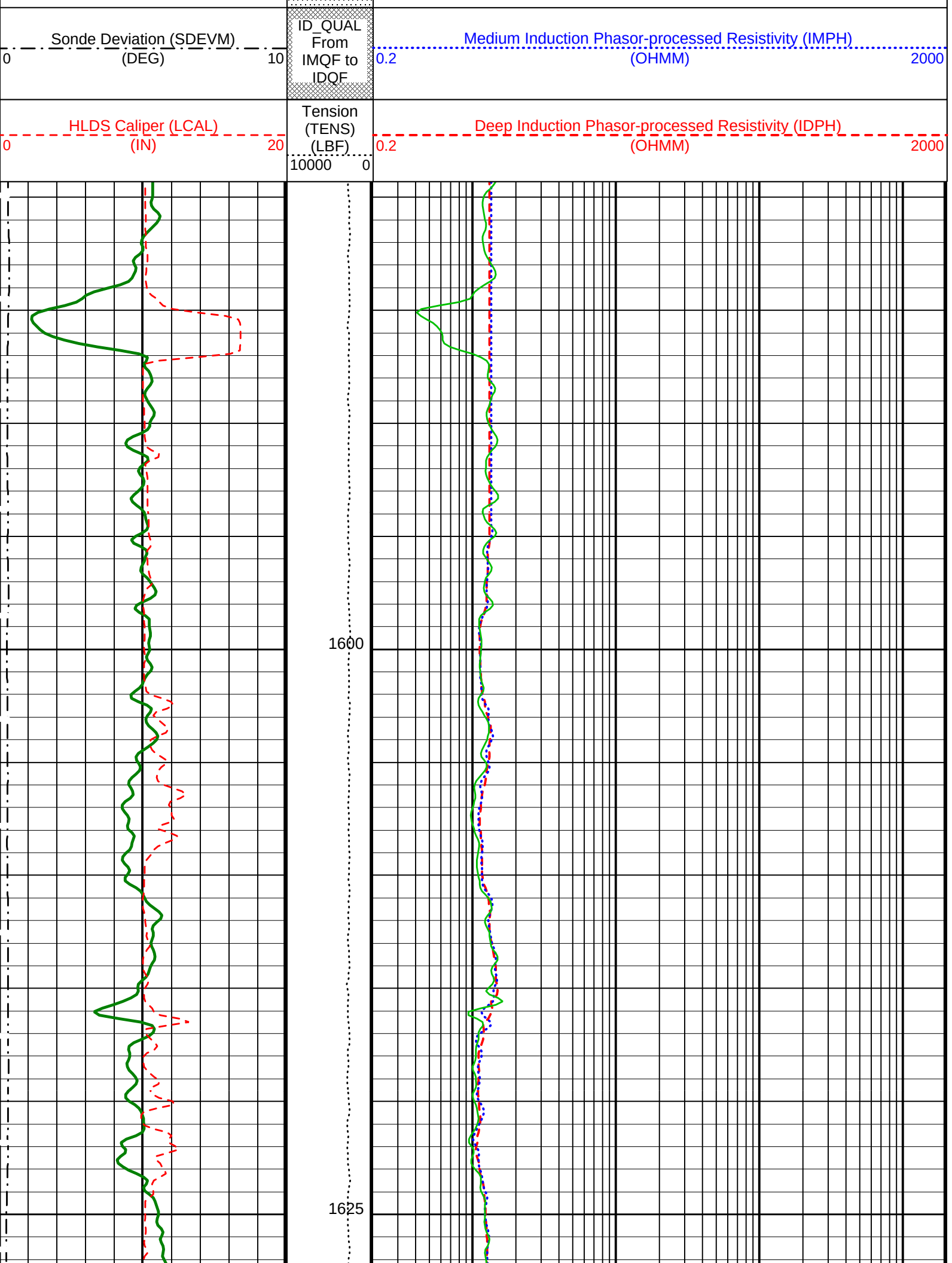
MCM

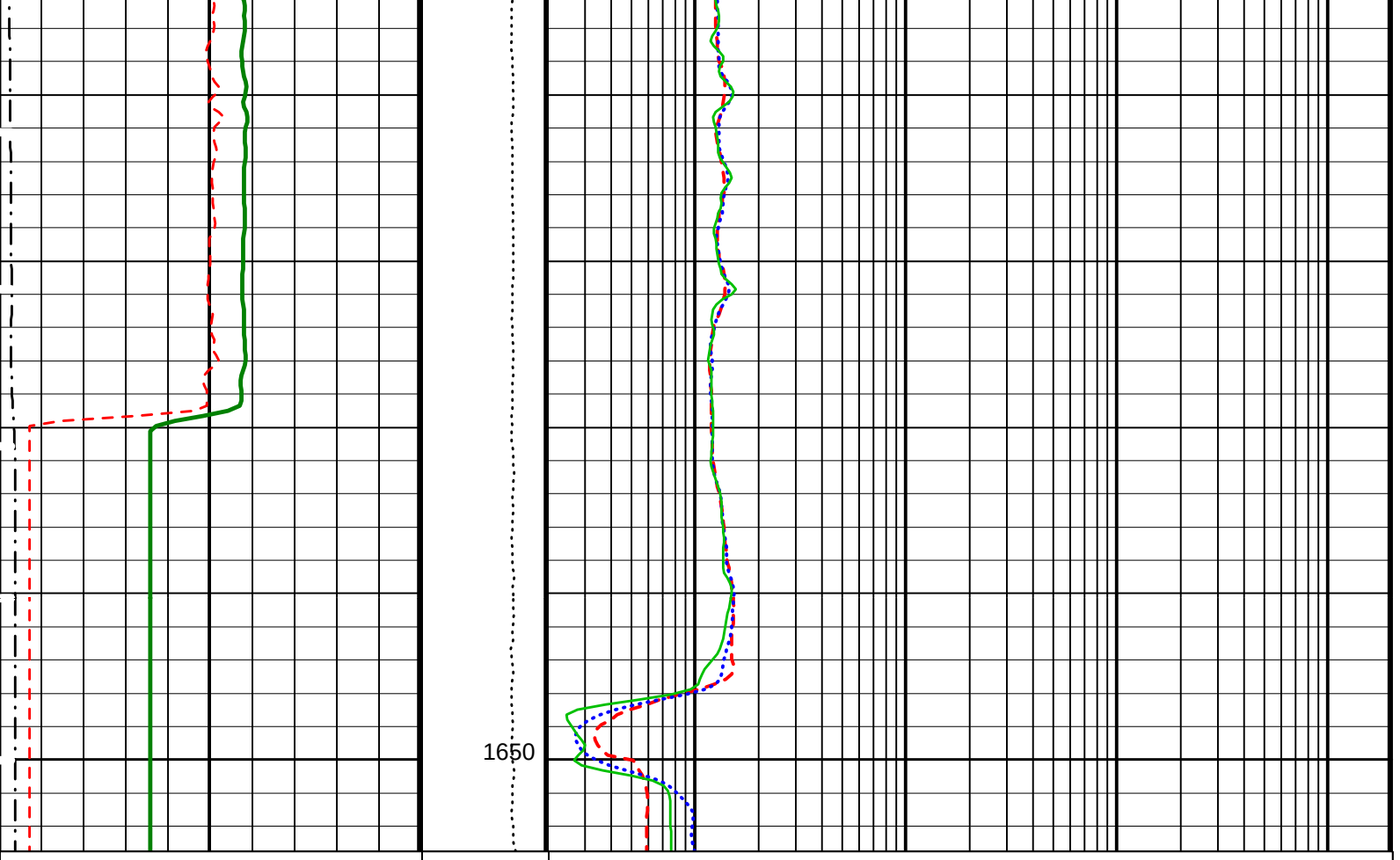
DIT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301

PIP SUMMARY

Time Mark Every 60 S

	SFL_ QUAL From D3T to SFQF	
HNGS Spectroscopy Gamma Ray (HSGR)	IM_QUAL From SFQF to IMQF	SFL Unaveraged (SFLU)
0 (GAPI) 150		0.2 (OHMM) 2000


Sonde Deviation (SDEVM)
0
(DEG)
10
ID_QUAL From IMQF to IDQF
Medium Induction Phasor-processed Resistivity (IMPH)
0.2
(OHMM)
2000
HLDS Caliper (LCAL)
0
(IN)
20
Tension (TENS) (LBF)
10000
0
Deep Induction Phasor-processed Resistivity (IDPH)
0.2
(OHMM)
2000
1600
1625



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

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

Sonde Deviation (SDEVM)
0 (DEG) 10

ID_QUAL From IMQF to IDQF

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

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

IM_QUAL From SFQF to IMQF

SFL Unaveraged (SFLU)
0.2 (OHMM) 2000

SFL_ QUAL From D3T to SFQF

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)	25	DEGC
DGF2	Deep 20 kHz Gain Factor	0.995355	
DPH2	Deep 20 kHz Phase Shift	-0.0922008	DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	16.9993	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	136.258	MM/M
GCSE	Generalized Caliper Selection	LCAL	
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	1.00569	
MPH2	Medium 20 kHz Phase Shift	-0.95492	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	10.0198	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	179.002	MM/M
SFCR	SFL Channel Ratio	1000	
SHT	Surface Hole Temperature	20	DEGC
GPIT-A/B: General Purpose Inclinometer			
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MDEC	Magnetic Field Declination	3.64412	DEG
APS-C: Accelerator-Porosity Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
GCSE	Generalized Caliper Selection	LCAL	
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)	25	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	LCAL	
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	-0.0269119	
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	0.987532	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.979116	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
GCSE	Generalized Caliper Selection	LCAL	
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
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.07	G/C3
TD	Total Depth	1780	M

Format: DITE_LogPhasor Vertical Scale: 1:200 Graphics File Created: 09-Jun-2005 23:53

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	GPIT-A/B	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_028LUP	FN:9	PRODUCER	09-Jun-2005 23:53

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CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
General Purpose Inclinometer Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 9-Jun-2005 22:29							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	
General Purpose Inclinometer Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 9-Jun-2005 22:29							
TEMPERATURE REFERENCE :	N/A	N/A	19	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 8-Jun-2005 21:27 Before: 8-Jun-2005 22:31 After: 10-Jun-2005 2:19							
SS Cs Resolution Bkg	9.000	8.486	8.550	8.451	-0.09881	1.800	%
LS Cs Resolution Bkg	9.000	8.045	8.053	8.041	-0.01164	1.800	%
LSW1 Background	100.0	81.67	80.78	80.91	0.1335	3.000	CPS
LSW2 Background	100.0	74.98	74.25	73.57	-0.6748	3.000	CPS
LSW3 Background	200.0	168.3	166.2	167.3	1.049	6.000	CPS
LSW4 Background	250.0	207.3	206.2	208.1	1.888	7.500	CPS
LSW5 Background	600.0	468.3	469.5	467.5	-1.980	18.00	CPS
SSW1 Background	100.0	78.39	79.71	78.95	-0.7557	3.000	CPS
SSW2 Background	200.0	140.3	140.0	140.6	0.5310	6.000	CPS
SSW3 Background	500.0	372.4	374.3	373.0	-1.299	15.00	CPS
SSW4 Background	270.0	200.9	201.3	203.0	1.709	8.100	CPS
SSW5 Background	200.0	145.5	146.6	144.8	-1.732	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement							
Master: 8-Jun-2005 22:09							
LSW1 Aluminum	600.0	569.0	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	859.8	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	1046	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	525.6	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	493.5	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2435	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	7039	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	10230	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	4397	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	611.2	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement							
Master: 8-Jun-2005 21:59							
LSW1 Iron	400.0	385.9	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	687.9	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	922.6	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	475.6	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	446.1	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1806	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5873	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	9273	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3980	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	534.1	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 8-Jun-2005 22:36							
HLDS Caliper Small Ring	8.000	N/A	11.25	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	15.38	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 8-Jun-2005 23:32 Before: 8-Jun-2005 23:39 After: 10-Jun-2005 2:19							

Near Det Bkg Cntrate	30.00	24.44	24.68	25.72	1.041	N/A	CPS
Far Det Bkg Cntrate	30.00	26.92	26.28	26.16	-0.1246	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.26	27.53	27.84	0.3162	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	26.08	25.71	26.81	1.096	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	25.92	25.37	26.08	0.7069	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios
Master: 8-Jun-2005 23:32

Near/Far Calibration Ratio	0.9250	0.9547	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	0.9879	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.005	N/A	N/A	N/A	N/A	

Accelerator-Porosity Tool Wellsite Calibration - Tank Check
Master: 8-Jun-2005 23:32

Array-1 Standoff Porosity	11.75	11.62	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.51	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.843	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9816	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9849	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.30	N/A	N/A	N/A	N/A	CU

Accelerator-Porosity Tool Wellsite Calibration - CCR7 signal boxes
Master: 22-Mar-2005 19:02

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

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check
Master: 8-Jun-2005 14:36 Before: 8-Jun-2005 15:47 After: 10-Jun-2005 2:24

Na 511 Peak Loc	40.00	40.63	40.59	40.49	-0.1000	1.000	
Na 511 Peak Res	15.50	16.75	16.49	18.04	1.554	2.000	%
High Voltage	1150	1107	1105	1115	9.487	N/A	V
Na 1785 Peak Loc	142.6	146.3	145.4	145.6	0.1412	7.000	
Na 1785 Peak Res	8.500	9.914	9.171	9.644	0.4733	2.000	%
Temperature	15.50	-26.97	-26.90	-26.65	0.2556	N/A	DEGC
Na Count Rate	45.00	37.06	36.25	37.24	0.9953	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check
Master: 8-Jun-2005 14:36 Before: 8-Jun-2005 15:47 After: 10-Jun-2005 2:24

Na 511 Peak Loc	40.00	40.54	40.67	40.64	-0.03411	1.000	
Na 511 Peak Res	15.50	15.55	14.72	14.63	-0.09497	2.000	%
High Voltage	1150	1189	1189	1198	9.439	N/A	V
Na 1785 Peak Loc	142.6	145.6	144.8	145.7	0.9152	7.000	
Na 1785 Peak Res	8.500	9.109	8.776	9.541	0.7650	2.000	%
Temperature	15.50	30.50	30.91	33.38	2.464	N/A	DEGC
Na Count Rate	45.00	37.33	36.61	37.54	0.9299	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2
Master: 8-Jun-2005 14:36 Before: 8-Jun-2005 15:47 After: 10-Jun-2005 2:24

Coincidence Count Rate Ratio	1.000	0.9935	0.9911	0.9911	-0.00001496	0.05000	

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	129
Dual Induction Cartridge	DIC - EB	171
Auxiliary Equipment:		
Mass Isolated Housing	MIH - ZA	174

Dual Induction - E Wellsite Calibration

Induction Electronics (10 kHz)

Phase	ID Elect Real Offset 10 kHz MM/M	Value
Before		30.02
	-300.0 (Minimum) 0 (Nominal) 300.0 (Maximum)	

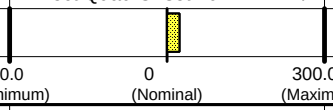
Phase	ID Elect Real Gain 10 kHz	Value
Before		0.9352
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

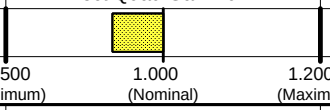
Phase	ID Elect Phase 10 kHz DEG	Value
Before		9.018
	-10.00 (Minimum) 0 (Nominal) 10.00 (Maximum)	

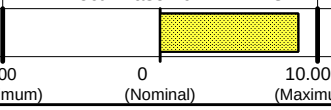
Phase	ID Elect Quad Offset 10 kHz MM/M	Value
Before		0.1000
	-300.0 (Minimum) 0 (Nominal) 300.0 (Maximum)	

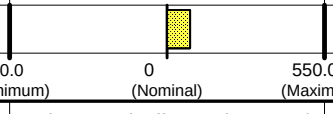
Phase	ID Elect Quad Gain 10 kHz	Value
Before		0.9352
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

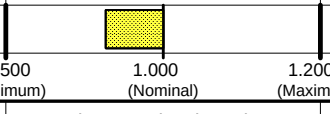
Phase	IM Elect Phase 10 kHz DEG	Value
Before		0.1000
	-10.00 (Minimum) 0 (Nominal) 10.00 (Maximum)	

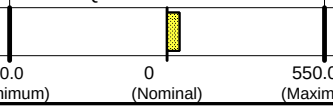
Phase		Value
Before		24.33
	-300.0 (Minimum) 0 (Nominal) 300.0 (Maximum)	

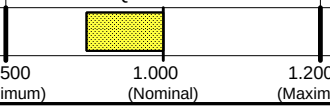
Phase		Value
Before		0.9504
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

Phase		Value
Before		8.837
	-10.00 (Minimum) 0 (Nominal) 10.00 (Maximum)	

Phase	IM Elect Real Offset 10 kHz MM/M	Value
Before		83.16
	-550.0 (Minimum) 0 (Nominal) 550.0 (Maximum)	

Phase	IM Elect Real Gain 10 kHz	Value
Before		0.9446
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

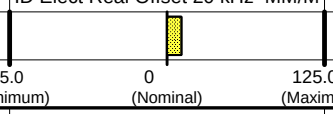
Phase	IM Elect Quad Offset 10 kHz MM/M	Value
Before		44.82
	-550.0 (Minimum) 0 (Nominal) 550.0 (Maximum)	

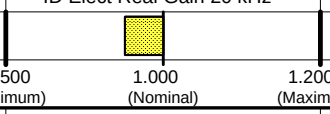
Phase	IM Elect Quad Gain 10 kHz	Value
Before		0.9260
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

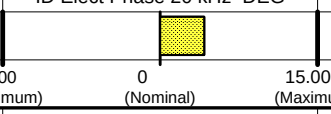
Before: 9-Jun-2005 23:48

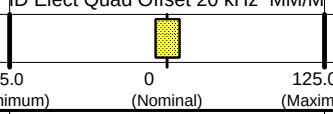
Dual Induction - E Wellsite Calibration

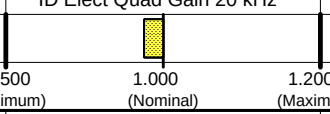
Induction Electronics (20 kHz)

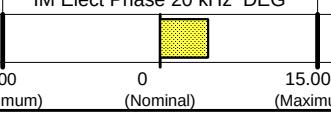
Phase	ID Elect Real Offset 20 kHz MM/M	Value
Before		11.86
	-125.0 (Minimum) 0 (Nominal) 125.0 (Maximum)	

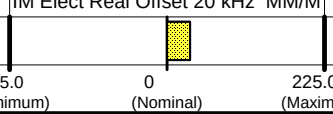
Phase	ID Elect Real Gain 20 kHz	Value
Before		0.9626
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

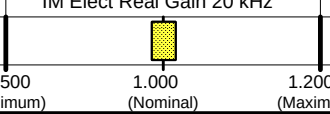
Phase	ID Elect Phase 20 kHz DEG	Value
Before		4.258
	-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)	

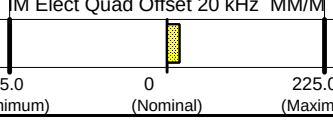
Phase	ID Elect Quad Offset 20 kHz MM/M	Value
Before		9.853
	-125.0 (Minimum) 0 (Nominal) 125.0 (Maximum)	

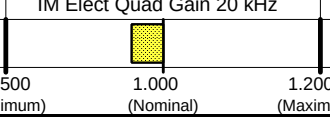
Phase	ID Elect Quad Gain 20 kHz	Value
Before		0.9809
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

Phase	IM Elect Phase 20 kHz DEG	Value
Before		4.633
	-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)	

Phase	IM Elect Real Offset 20 kHz MM/M	Value
Before		34.13
	-225.0 (Minimum) 0 (Nominal) 225.0 (Maximum)	

Phase	IM Elect Real Gain 20 kHz	Value
Before		0.9881
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

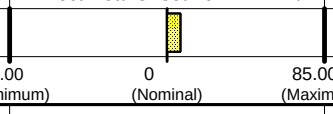
Phase	IM Elect Quad Offset 20 kHz MM/M	Value
Before		18.52
	-225.0 (Minimum) 0 (Nominal) 225.0 (Maximum)	

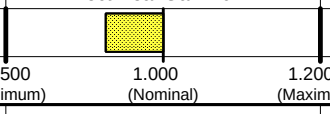
Phase	IM Elect Quad Gain 20 kHz	Value
Before		0.9685
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

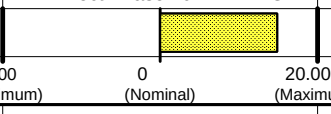
Before: 9-Jun-2005 23:49

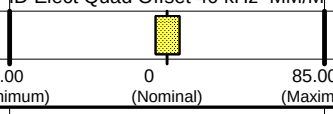
Dual Induction - E Wellsite Calibration

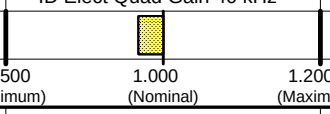
Induction Electronics (40 kHz)

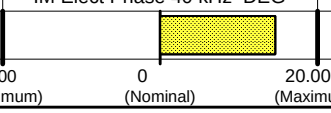
Phase	ID Elect Real Offset 40 kHz MM/M	Value
Before		7.717
	-85.00 (Minimum) 0 (Nominal) 85.00 (Maximum)	

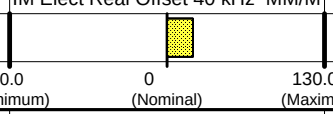
Phase	ID Elect Real Gain 40 kHz	Value
Before		0.9442
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

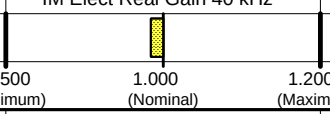
Phase	ID Elect Phase 40 kHz DEG	Value
Before		14.99
	-20.00 (Minimum) 0 (Nominal) 20.00 (Maximum)	

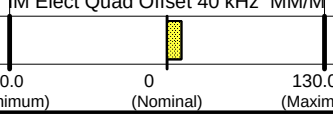
Phase	ID Elect Quad Offset 40 kHz MM/M	Value
Before		6.563
	-85.00 (Minimum) 0 (Nominal) 85.00 (Maximum)	

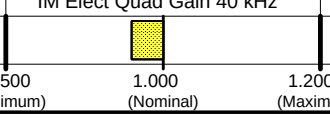
Phase	ID Elect Quad Gain 40 kHz	Value
Before		0.9713
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

Phase	IM Elect Phase 40 kHz DEG	Value
Before		14.73
	-20.00 (Minimum) 0 (Nominal) 20.00 (Maximum)	

Phase	IM Elect Real Offset 40 kHz MM/M	Value
Before		21.93
	-130.0 (Minimum) 0 (Nominal) 130.0 (Maximum)	

Phase	IM Elect Real Gain 40 kHz	Value
Before		0.9864
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

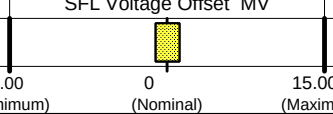
Phase	IM Elect Quad Offset 40 kHz MM/M	Value
Before		11.98
	-130.0 (Minimum) 0 (Nominal) 130.0 (Maximum)	

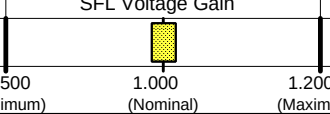
Phase	IM Elect Quad Gain 40 kHz	Value
Before		0.9665
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

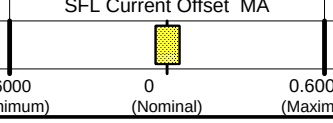
Before: 9-Jun-2005 23:50

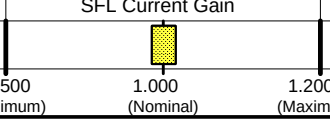
Dual Induction - E Wellsite Calibration

SFL Electronics

Phase	SFL Voltage Offset MV	Value
Before		0.1399
	-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)	

Phase	SFL Voltage Gain	Value
Before		0.9953
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

Phase	SFL Current Offset MA	Value
Before		0.03357
	-0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)	

Phase	SFL Current Gain	Value
Before		1.006
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

Before: 9-Jun-2005 23:50

Dual Induction - E Wellsite Calibration

Electronics Calibration Changes Files/Depth Intervals: 25: 0.0 - 0.0 26: 1458.5 - 1626.0 28: 1652.8 - 1579.3 29: 1776.2 - 1461.1

Phase	ID (R > 27 OHM-M) MM/M	Value
After		0
0 (Minimum)	0 (Nominal)	0.7500 (Maximum)

Phase	ID (R < 27 OHM-M) %	Value
After		0.0001698
0 (Minimum)	0 (Nominal)	2.000 (Maximum)

Phase	SFL (R < 1 OHM-M) OHMM	Value
After		0.0006472
0 (Minimum)	0 (Nominal)	0.02000 (Maximum)

Phase	IM (R > 27 OHM-M) MM/M	Value
After		0
0 (Minimum)	0 (Nominal)	0.7500 (Maximum)

Phase	IM (R < 27 OHM-M) %	Value
After		0.0001354
0 (Minimum)	0 (Nominal)	2.000 (Maximum)

Phase	SFL (R > 27 OHM-M) MM/M	Value
After		0
0 (Minimum)	0 (Nominal)	0.7500 (Maximum)

Phase	SFL (R < 27 OHM-M) %	Value
After		0.0005234
0 (Minimum)	0 (Nominal)	2.000 (Maximum)

After: 10-Jun-2005 1:35

General Purpose Inclinometer / Equipment Identification

Primary Equipment:

GPIT Cartridge - A	GPIC - A	840

Auxiliary Equipment:

GPIT Housing	GPIH - A	

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Hostile Litho Density Sonde	HLDS - D	35
Hostile Litho Density High Voltage	HLDV - D	35
Gamma Source Radioactive	GSR - Z	2326

Auxiliary Equipment:

Hostile Litho Density Pad	HLDP - C	35
Hostile Litho Density High Voltage Housi	HEH - H	35

Hostile Litho-Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value
Master		8.486
Before		8.550
After		8.451
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Phase	LS Cs Resolution Bkg %	Value
Master		8.045
Before		8.053
After		8.041
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Phase	LSW1 Background CPS	Value
Master		81.67
Before		80.78
After		80.91
55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)

Phase	LSW2 Background CPS	Value
Master		74.98
Before		74.25
After		73.57
50.00 (Minimum)	100.0 (Nominal)	140.0 (Maximum)

Phase	LSW3 Background CPS	Value
Master		168.3
Before		166.2
After		167.3
110.0 (Minimum)	200.0 (Nominal)	290.0 (Maximum)

Phase	LSW4 Background CPS	Value
Master		207.3
Before		206.2
After		208.1
140.0 (Minimum)	250.0 (Nominal)	360.0 (Maximum)

Phase	LSW5 Background CPS	Value
Master		468.3
Before		469.5
After		467.5
330.0 (Minimum)	600.0 (Nominal)	830.0 (Maximum)

Phase	SSW1 Background CPS	Value
Master		78.39
Before		79.71
After		78.95
55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)

Phase	SSW2 Background CPS	Value
Master		140.3
Before		140.0
After		140.6
100.0 (Minimum)	200.0 (Nominal)	260.0 (Maximum)

Phase	SSW3 Background CPS	Value
Master		372.4
Before		374.3
After		373.0

Phase	SSW4 Background CPS	Value
Master		200.9
Before		201.3
After		203.0

Phase	SSW5 Background CPS	Value
Master		145.5
Before		146.6
After		144.8

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: 8-Jun-2005 21:27 Before: 8-Jun-2005 22:31 After: 10-Jun-2005 2:19

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	Phase	Array-1 Det Bkg Cntrate CPS	Value
Master		24.44	Master		26.92	Master		28.26
Before		24.68	Before		26.28	Before		27.53
After		25.72	After		26.16	After		27.84
1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)		

Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value
Master		26.08	Master		25.92
Before		25.71	Before		25.37
After		26.81	After		26.08
1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)		

Master: 8-Jun-2005 23:32 Before: 8-Jun-2005 23:39 After: 10-Jun-2005 2:19

Accelerator-Porosity Tool Wellsite Calibration
Calibration Ratios

Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value	Phase	Near/Array Cal Ratio Up/Down	Value
Master		0.9547	Master		0.9879	Master		1.005
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: 8-Jun-2005 23:32

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		11.62	Master		11.51	Master		5.843
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		0.9816	Master		0.9849	Master		27.30
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: 8-Jun-2005 23:32

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS - BA	27
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH - BA	27
Gamma Source Radioactive	GSR - U	135

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value
Master		40.63
Before		40.59
After		40.49
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		16.75
Before		16.49
After		18.04
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1107
Before		1105
After		1115
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		146.3
Before		145.4
After		145.6
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		9.914
Before		9.171
After		9.644
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		-26.97
Before		-26.90
After		-26.65
	-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		37.06
Before		36.25
After		37.24
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 8-Jun-2005 14:36 Before: 8-Jun-2005 15:47 After: 10-Jun-2005 2:24

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		40.54
Before		40.67
After		40.64
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		15.55
Before		14.72
After		14.63
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1189
Before		1189
After		1198
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		145.6
Before		144.8
After		145.7
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		9.109
Before		8.776
After		9.541
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		30.50
Before		30.91
After		33.38
	-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		37.33
Before		36.61
After		37.54
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 8-Jun-2005 14:36 Before: 8-Jun-2005 15:47 After: 10-Jun-2005 2:24

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9935
Before		0.9911
After		0.9911
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	

Master: 8-Jun-2005 14:36
Before: 8-Jun-2005 15:47
After: 10-Jun-2005 2:24

Company: Lamont Doherty

Schlumberger

Well: IODP EXP 308 Site 1320A
Field: Brazos Trinity Basin
Country: USA
Ocean: Gulf Of Mexico

Phasor Induction-HNGS