COMPANY: Lamont Doherty

WELL: ODP Leg 191, Site 1179D (WP-2A)

FIELD: West Pacific ION

COUNTY: Offshore STATE: Pacific Ocean

COUNTY: Offshore
Field: West Pacific ION
Location: ODP Leg 191, Site 1179D (WP-2
Well:
Company: Lamont Doherty

Schlumberger

Phasor Induction
Natural Gamma Ray

LOCATION

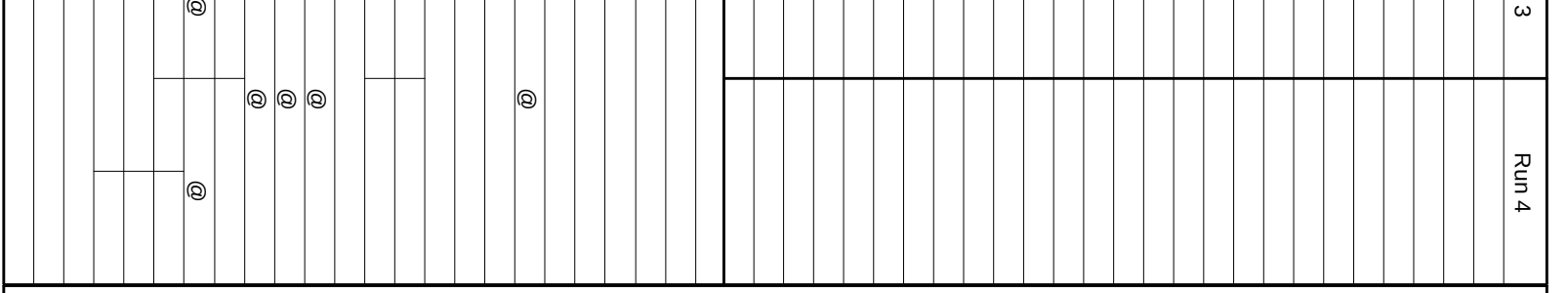
Elev.: K.B. 11.3 m
G.L. -5566 m
D.F. 11 m

Permanent Datum: MSL Elev.: 0 m
Log Measured From: RKB 11.3 m above Perm. Datum
Drilling Measured From: RKB

API Serial No.	LATITUDE: 41* 4.8122' N	LONGITUDE: 159* 57.7862' E	RIG: JOIDES Resolution

Logging Date		5-AUG-2000									
Run Number		1									
Depth Driller		6052 m									
Schlumberger Depth		5873 m									
Bottom Log Interval		5871 m									
Top Log Interval		5550 m									
Casing Driller Size @ Depth		0.000 in	@				@				
Casing Schlumberger											
Bit Size		9.875 in									
Type Fluid In Hole		Salt Water Base									
MUD Density	Viscosity	8.3 g/cm3									
MUD Fluid Loss	PH										
MUD Source Of Sample		Salt Water									
RM @ Measured Temperature		0.213 ohm.m	@	20 degC			@				
RMF @ Measured Temperature			@				@				
RMC @ Measured Temperature			@				@				
Source RMF	RMC										
RM @ MRT	RMF @ MRT	@		@		@		@			
Maximum Recorded Temperatures											
Circulation Stopped	Time	5-AUG-2000		5:00							
Logger On Bottom	Time	5-AUG-2000		17:00							
Unit Number	Location	99	Houston								
Recorded By		Kerry M. Swain									
Witnessed By		Florence Einaldi, Sarah Haggas									

	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			



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OTHER SERVICES1	OTHER SERVICES2
OS1: HLDT/APS/HNGS/TAP	OS1:
OS2: LAMONT GR	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Lamont Temperature Tool (TAP) run on DITE/HLDT/APS/HNGS only.	
Sea floor at 5577mbrf.	
Log presented in meters below rig floor.	
Wireline heave compensator used on all descents.	
Sepiolite mud placed in the hole before logging.	
Drillers TD-6052m, Loggers TD-5873m deepest point reached.	
Maximum recorded temperature recorded by Lamont TAP tool.	
Drill pipe set at 5732.5mbrf. HNGS background master low due to low stab. source strength.	

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 9C1-303
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

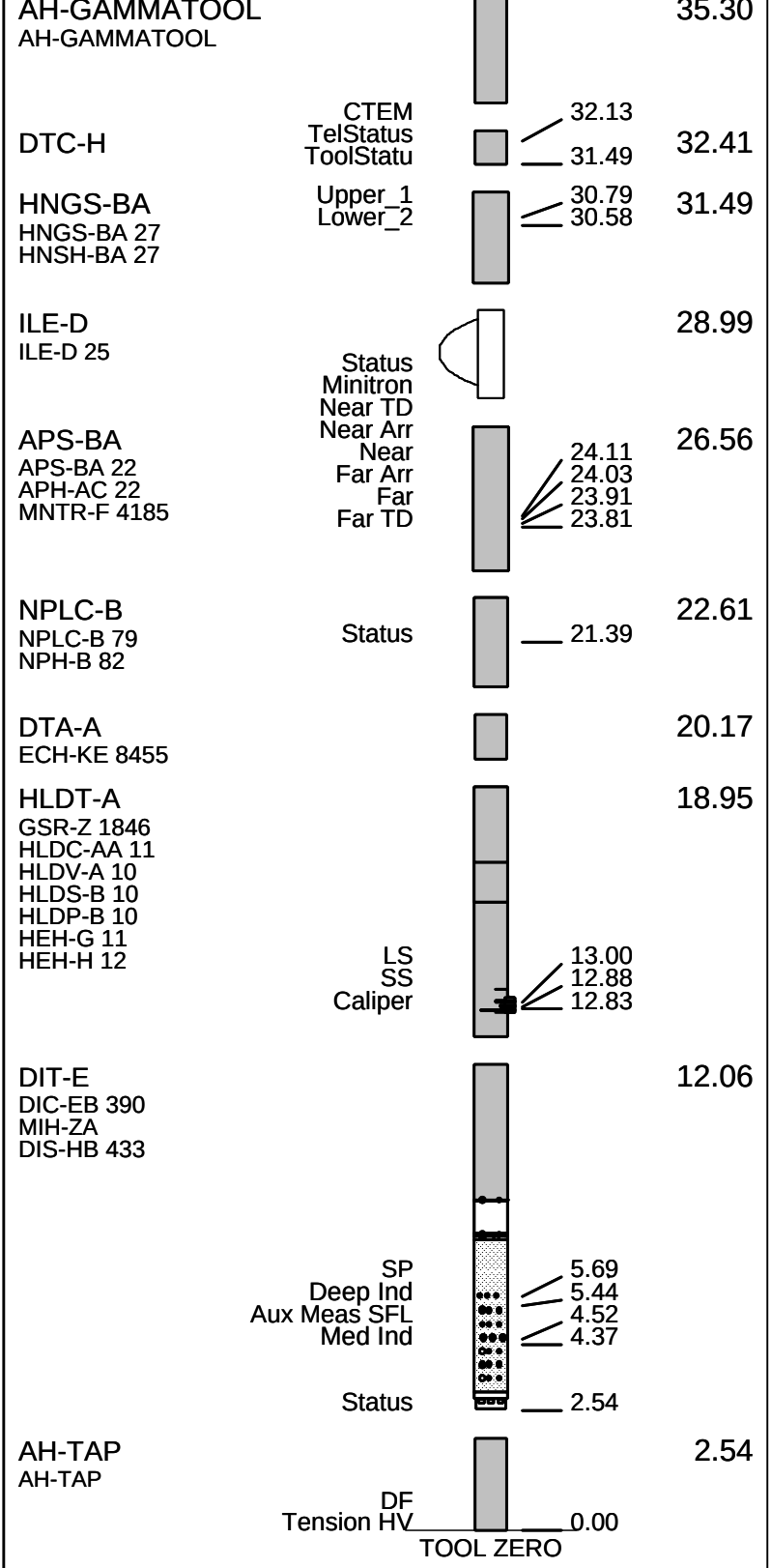
SFT-281 24
SFT-178 4722
GSR-U 135
WITM (DTS)-A

DOWNHOLE EQUIPMENT

LEH-QT 38.94

AH-TELEM 38.05
AH-TELEM

RUN 2



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

Input DLIS Files

DEFAULT	DITE .024	FN:13	PRODUCER	05-Aug-2000 17:03	5833.9 M	5550.0 M

Output DLIS Files

DEFAULT	DITE .064	FN:66	PRODUCER	18-Aug-2000 21:06	5833.9 M	5550.0 M

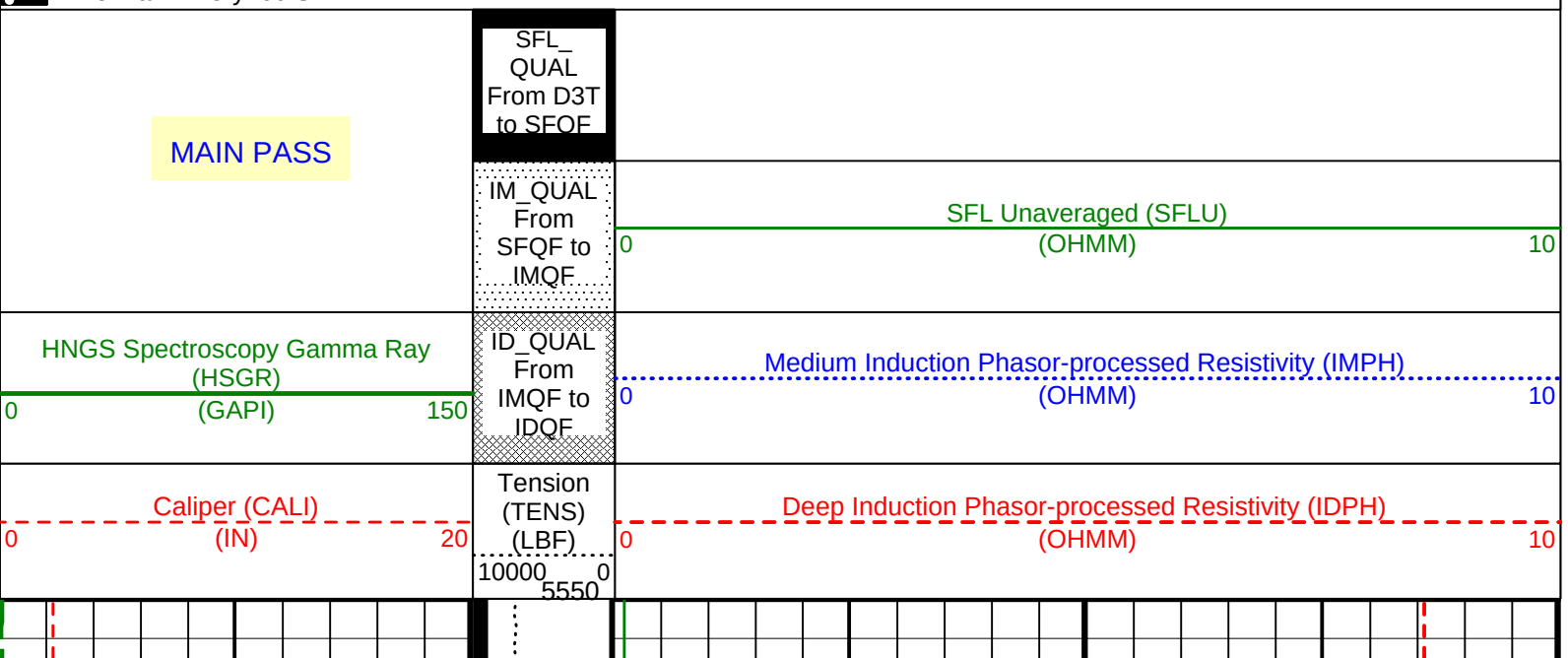
OP System Version: 9C1-303

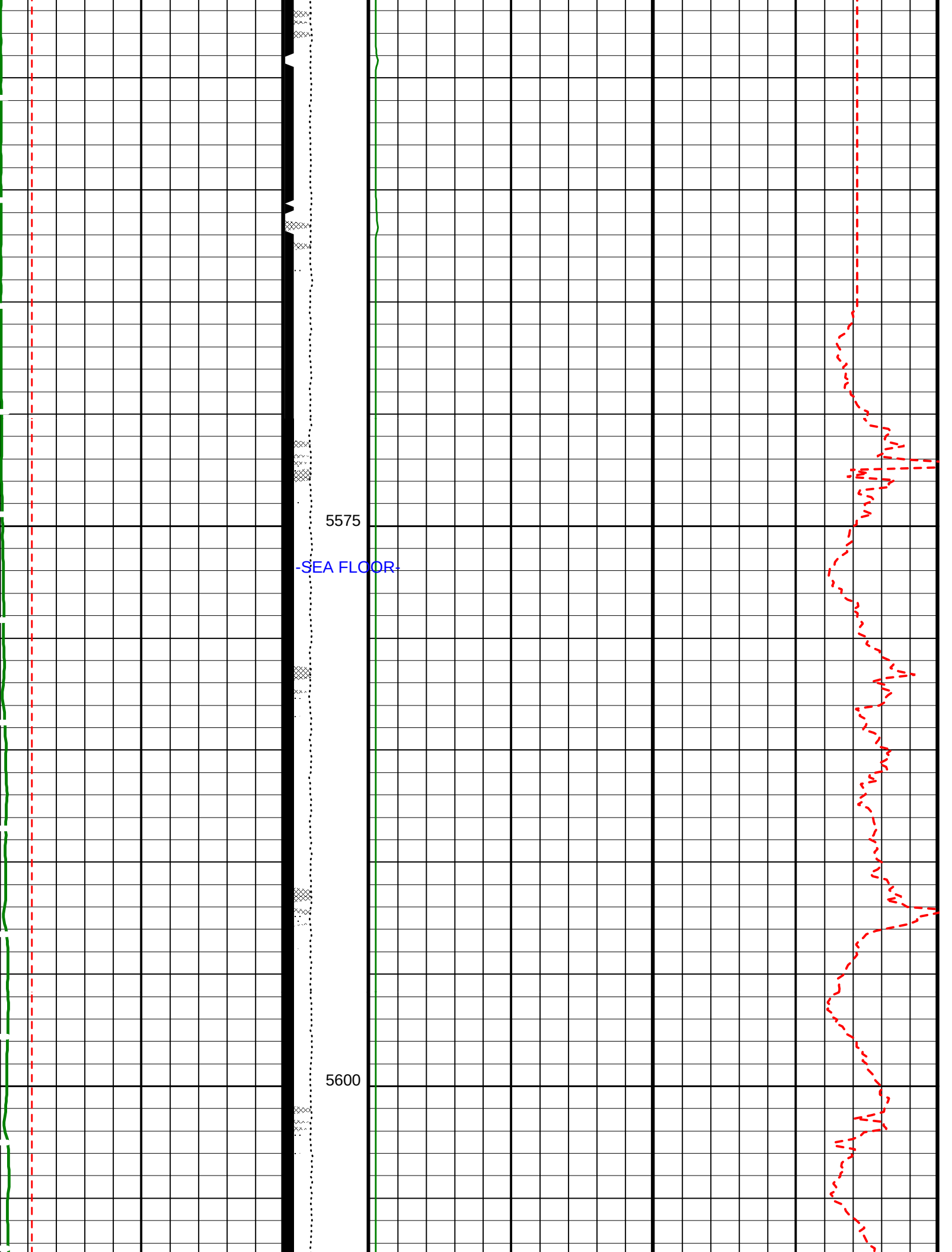
MCM

DIT-E	OP91-kp2	HLDT-A	OP91-kp2
DTA-A	OP91-kp2	NPLC-B	OP91-kp2
APS-BA	OP91-kp2	HNGS-BA	OP91-kp2
DTC-H	OP91-kp2		

PIP SUMMARY

Time Mark Every 60 S

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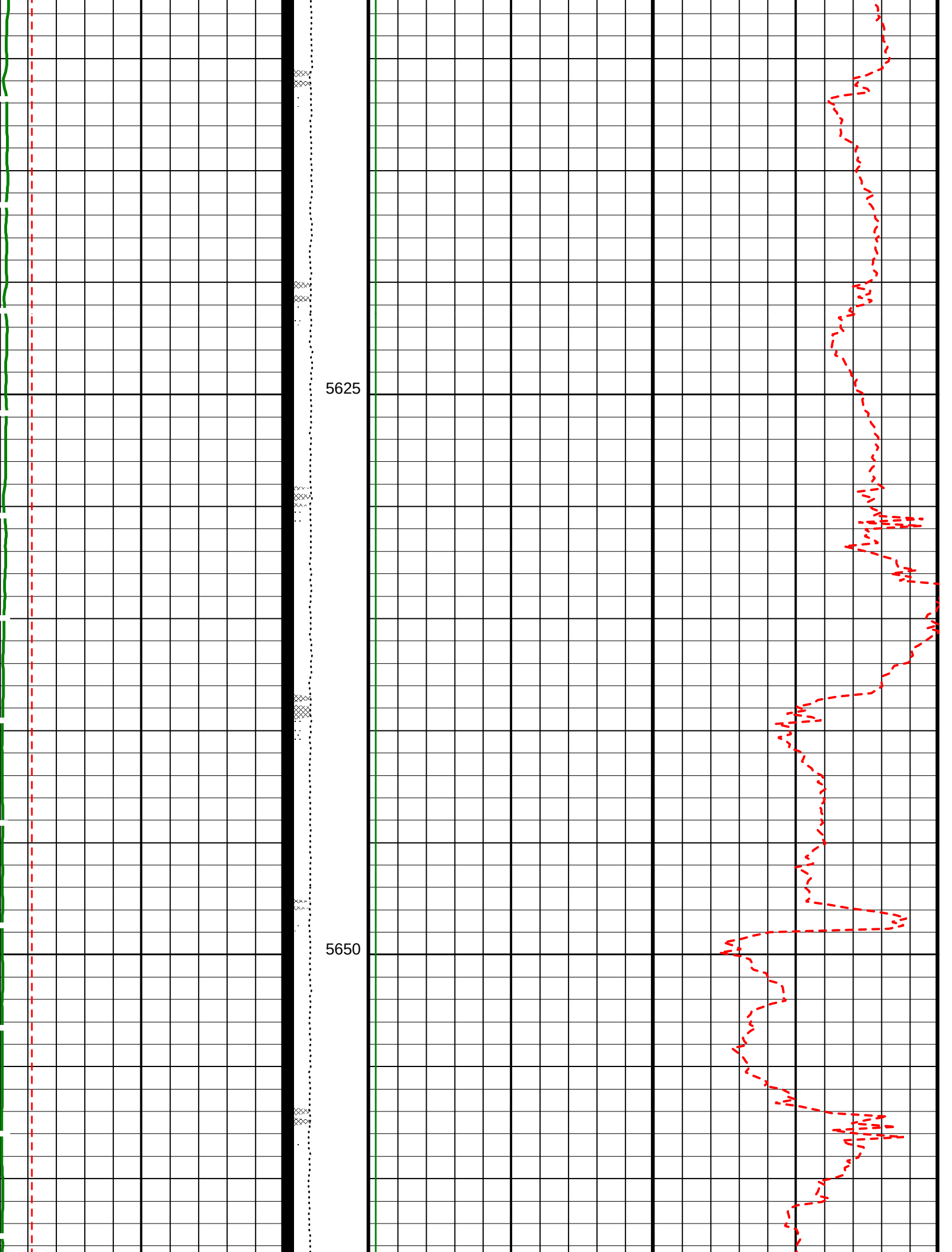
-SEA FLOOR-
5600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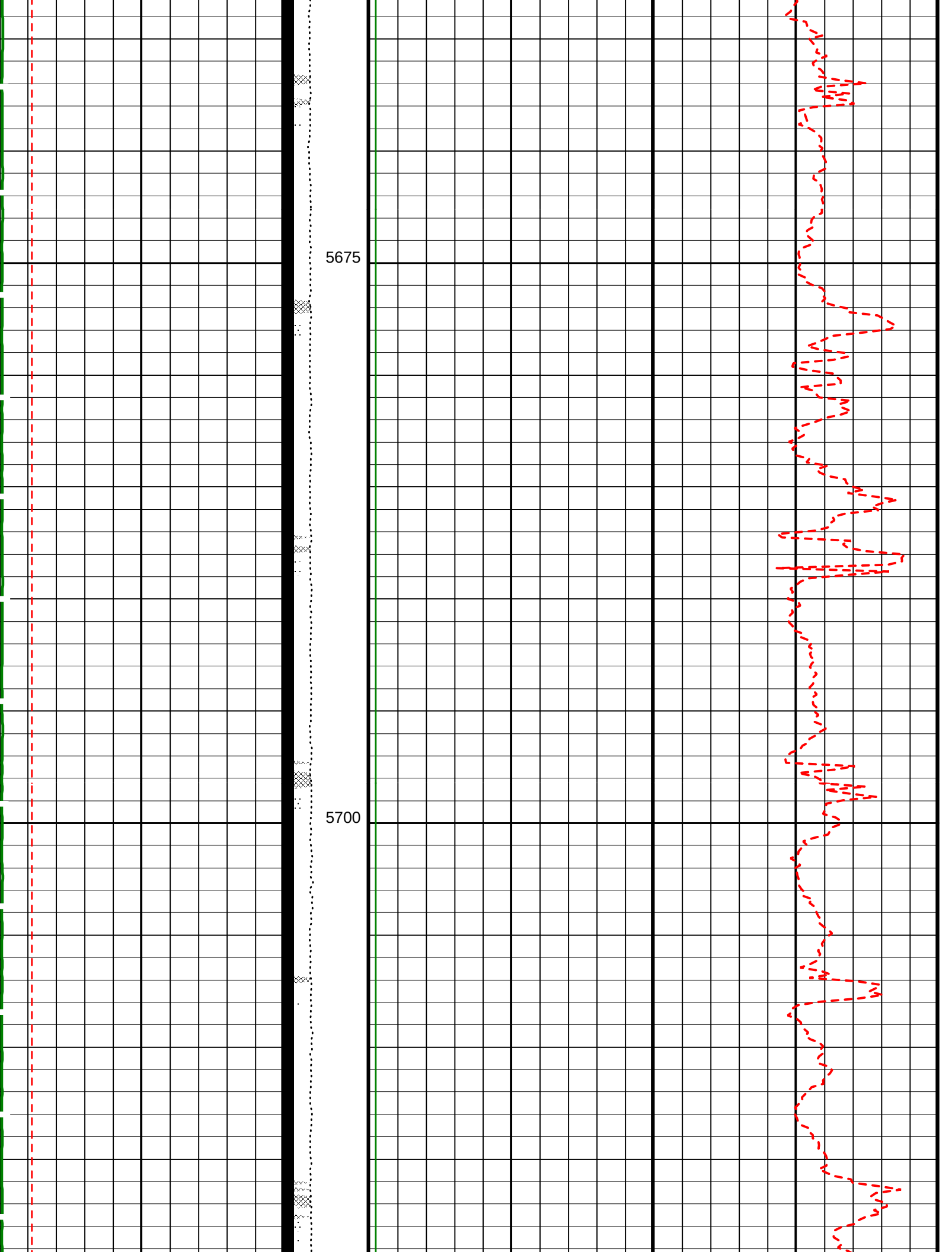
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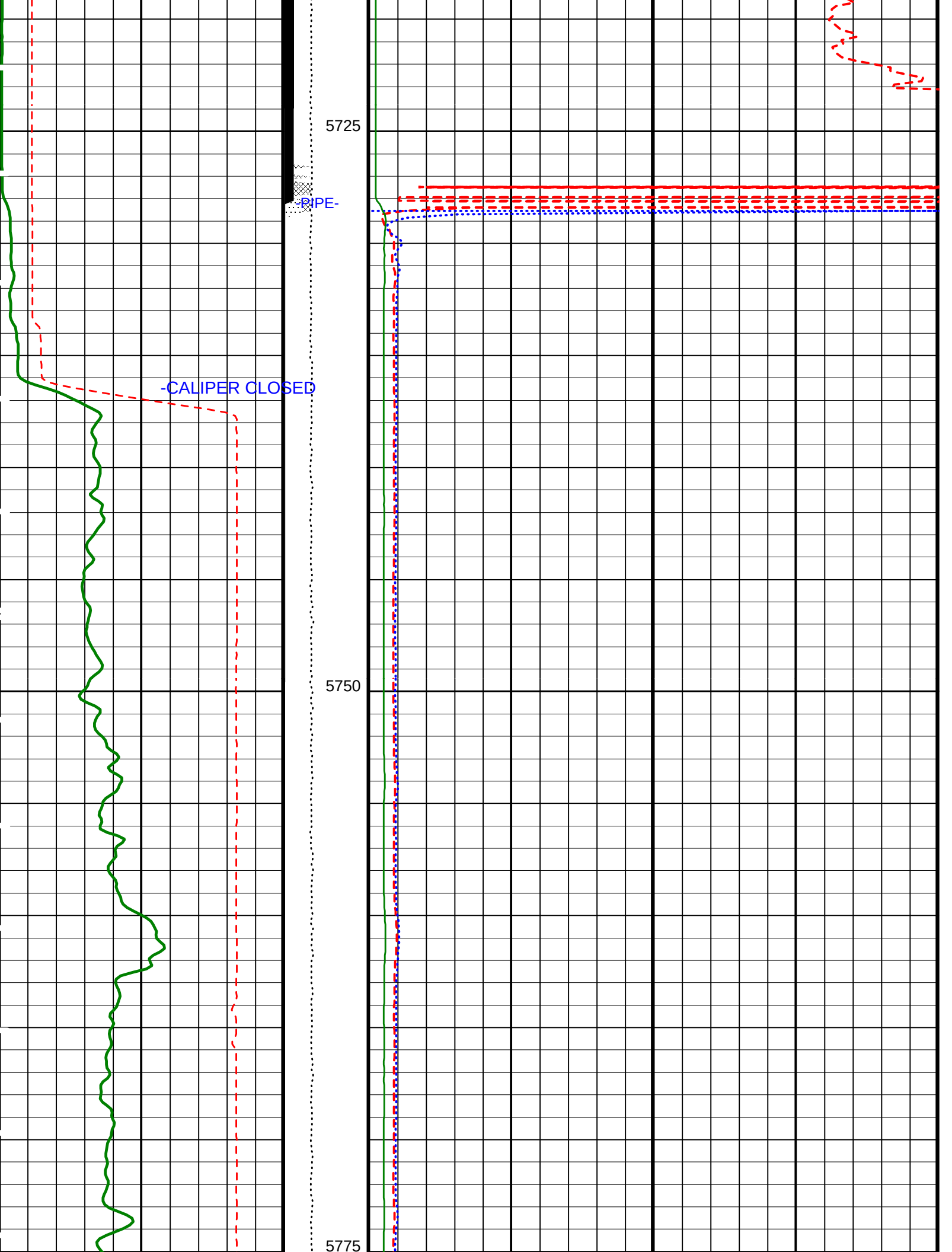
5700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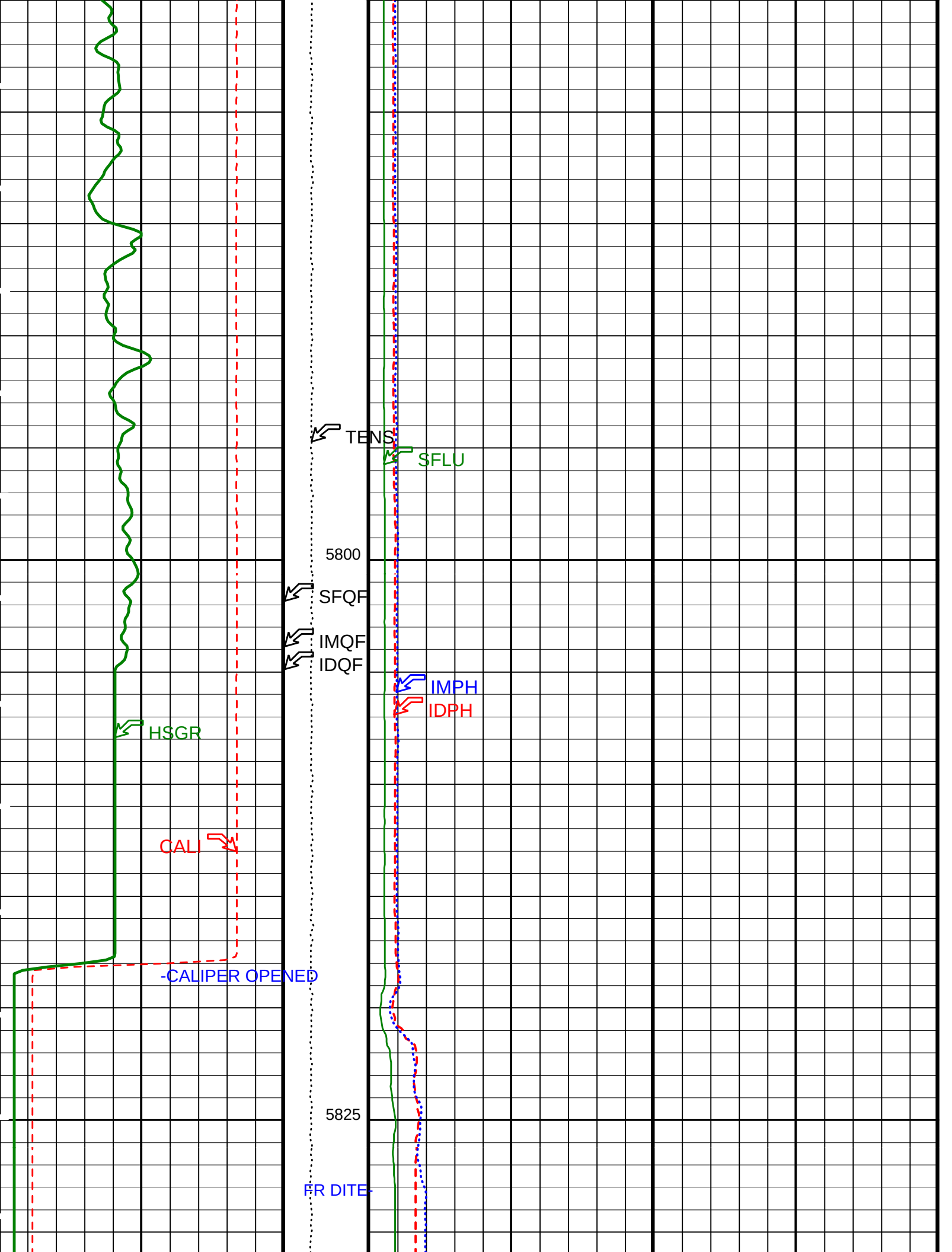
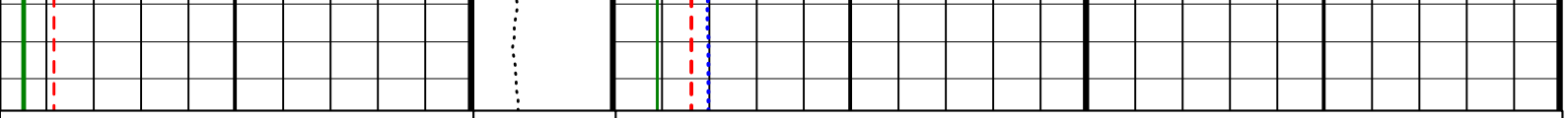
-PIPE-
-CALIPER CLOSED
5750
5775


TENS
SFLU
5800
SFQF
IMQF
IDQF
IMPH
IDPH
HSGR
CALI
-CALIPER OPENED
5825
FR DITE-



Caliper (CALI)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

Deep Induction Phasor-processed Resistivity (IDPH)
0 (OHMM) 10

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

ID_QUAL From IMQF to IDQF

Medium Induction Phasor-processed Resistivity (IMPH)
0 (OHMM) 10

MAIN PASS

IM_QUAL From SFQF to IMQF

SFL Unaveraged (SFLU)
0 (OHMM) 10

SFL_ QUAL From D3T to SFQF

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	APS Software Version	0	
	APS Cement Thickness Source	COMPUTED	
	Apparent Thickness of Cement	0	IN
AASD	APS Thermal and Array Detectors High Voltage Setting	1965.09	V
ABOS	APS Neutron Burst-Off Background Subtraction Switch	ON	
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2072.62	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1747.47	V
AOTS	APS Old Temperature Sensor Switch	NO	
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BFM	Borehole Fluid Medium	LIQUID	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	10	DEGC
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CONTYP	Conveyance Type	Wireline	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSIZ	Current Casing Size	0.000	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
CWEI	Casing Weight	0.00	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	8.20815	%
D1TC	HNGS Detector 1 Calibration Temperature	33.3413	DEGC
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.189	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.0296	%
D2TC	HNGS Detector 2 Calibration Temperature	32.3115	DEGC
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	210.126	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DEPREM1	Depth Remark 1		
DEPREM2	Depth Remark 2		
DEPREM3	Depth Remark 3		
DEPREM4	Depth Remark 4		
DEPREM5	Depth Remark 5		
DEPREM6	Depth Remark 6		
DFD	Drilling Fluid Density	8.30	G/C3

DGF2	Deep 20 kHz Gain Factor	1.01369	
DHC	Density Hole Correction	BS	
DO	Depth Offset for Logical Unit 1	0.0	M
DPH2	Deep 20 kHz Phase Shift	0.0313069	DEG
DPPM	Density Porosity Processing Mode	HIRS	
DRE2	Deep Real 20 kHz Sonde Error Correction	10.4019	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	62.2393	MM/M
FD	Fluid Density	1	G/C3
FSAL	Formation Salinity	-50000	PPM
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
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	-0.0140165	
HALF	HNGS Alpha Filter Length	60	IN
HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	
HSVN	HNGS Spectral Standards Version Number	3.77468e-032	
IDWCD	IDW Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy	
IDWCSN	IDW Calibrator Serial Number	-999	
IDWLCN	IDW Calibration Cable Type	7-46P	
IDWSN	IDW Serial Number	-999	
IDWTYP	IDW Type	IDW-B	
IDWWC1	IDW Wheel Corrrection 1	-999	
IDWWC2	IDW Wheel Corrrection 2	-999	
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	
LCSN	Logging Cable Serial Number	-999	
LOGSEQ	Log Sequence	First_Log_In_Well	
LSHC	LS Hardware Loop Control	DISALLOW	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.71	G/C3
MGF2	Medium 20 kHz Gain Factor	1.01813	
MPH2	Medium 20 kHz Phase Shift	-0.976694	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	9.02567	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MST	Mud Sample Temperature	20.00	DEGC
MXE2	Medium Quad 20 kHz Sonde Error Correction	118.848	MM/M
NARC	APS Near/Array Calibration Ratio	1.06128	
NFRC	APS Near/Far Calibration Ratio	0.893853	
NOTS	NPLC Old Temperature Sensor	NO	
NRBM	NPLC Reduced Telemetry Bandwidth Mode	OFF	
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
QPPS	Quicklook Processing Pe Select	PEFL	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
RIGTYP	Rig Type	Offshore_Floater_with_WMC	
RLDT	Reference Log Date (dd-MMM-yyyy)	dd-MMM-yyyy	
RLNM	Reference Log Name		
RLRN	Reference Log Run Number		
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RULB	Rig Up Length at Bottom	0	M
RULS	Rig Up Length at Surface	0	M
RW	Resistivity of Connate Water	1.0000	OHMM
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	26.5931	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986034	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	26.917	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.983854	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.00217055	
SBR	Shoulder Bed Resistivity Factor	1	OHMM
SCORR	Stretch Correction	-50000	M
SFCR	SFL Channel Ratio	1000	
SFLE	SFL Enable	ENABLE	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
SPAE	DIT-E SPARC Processing Enable	ENABLE	
SPNV	SP Next Value	0	MV
SSHC	SS Hardware Loop Control	DISALLOW	
STDLC	Subsequent Trip Down Log Correction	-50000	M

TD	Total Depth	6052	M
TDD	Total Depth - Driller	6052.00	M
TDL	Total Depth - Logger	5873.00	M
TNDCD	Tension Device Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy	
TNDCSN	Tension Device Calibrator Serial Number	-999	
TNDGN	Tension Device GAIN	1	
TNDOFF	Tension Device Offset	0	
TNDSN	Tension Device Serial Number	-999	
TNDTYP	Tension Device	CMTD-B/A	
TPOS	Tool Position	ECCE	
TWS	Temperature of Connate Water Sample	37.78	DEGC
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01071	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.923111	
WMUD	Mud Weight	0.994556	G/C3
ZRCS	Tool Zero Reference Check at Surface	-50000	M

Format: DITE_LinPhasor Vertical Scale: 1:200 Graphics File Created: 18-Aug-2000 21:06

OP System Version: 9C1-303

MCM

DIT-E	OP91-kp2	HLDT-A	OP91-kp2
DTA-A	OP91-kp2	NPLC-B	OP91-kp2
APS-BA	OP91-kp2	HNGS-BA	OP91-kp2
DTC-H	OP91-kp2		

Input DLIS Files

DEFAULT	DITE	.024	FN:13	PRODUCER	05-Aug-2000 17:03	5833.9 M	5550.0 M

Output DLIS Files

DEFAULT	DITE	.064	FN:66	PRODUCER	18-Aug-2000 21:06		

Input DLIS Files

DEFAULT	DITE	.021	FN:8	PRODUCER	05-Aug-2000 14:05	5875.0 M	5777.0 M

Output DLIS Files

DEFAULT	DITE	.063	FN:65	PRODUCER	18-Aug-2000 21:01	5875.0 M	5777.0 M

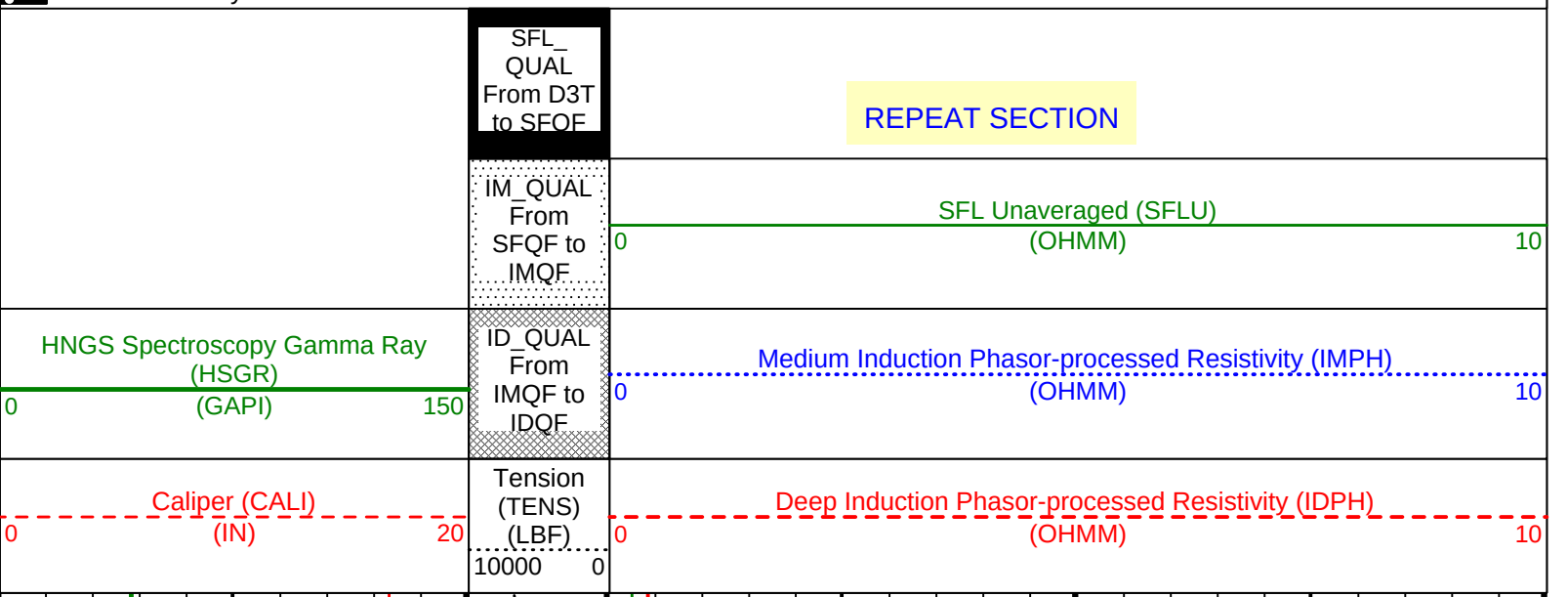
OP System Version: 9C1-303

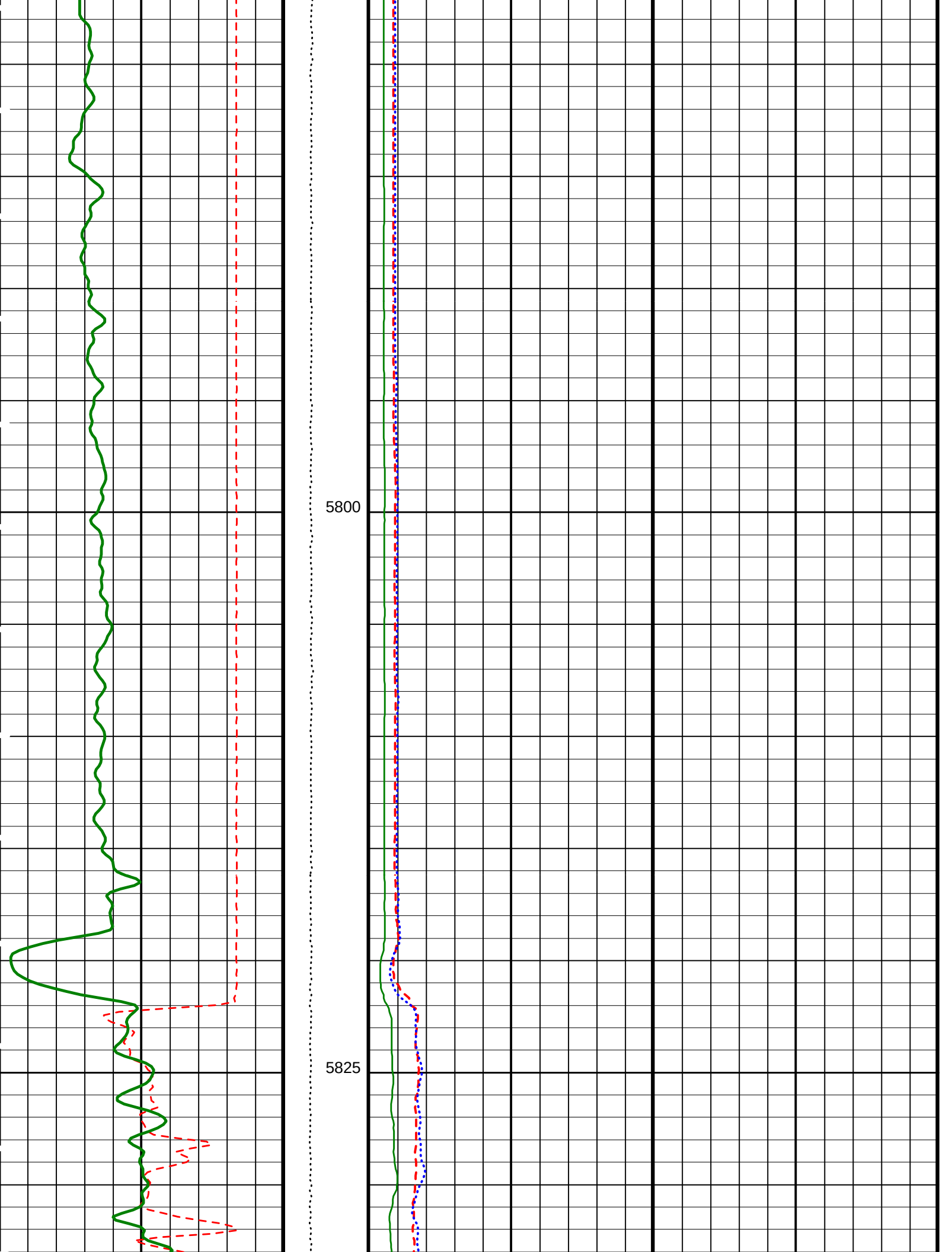
MCM

DIT-E	OP91-kp2	HLDT-A	OP91-kp2
DTA-A	OP91-kp2	NPLC-B	OP91-kp2
APS-BA	OP91-kp2	HNGS-BA	OP91-kp2
DTC-H	OP91-kp2		

PIP SUMMARY

Time Mark Every 60 S

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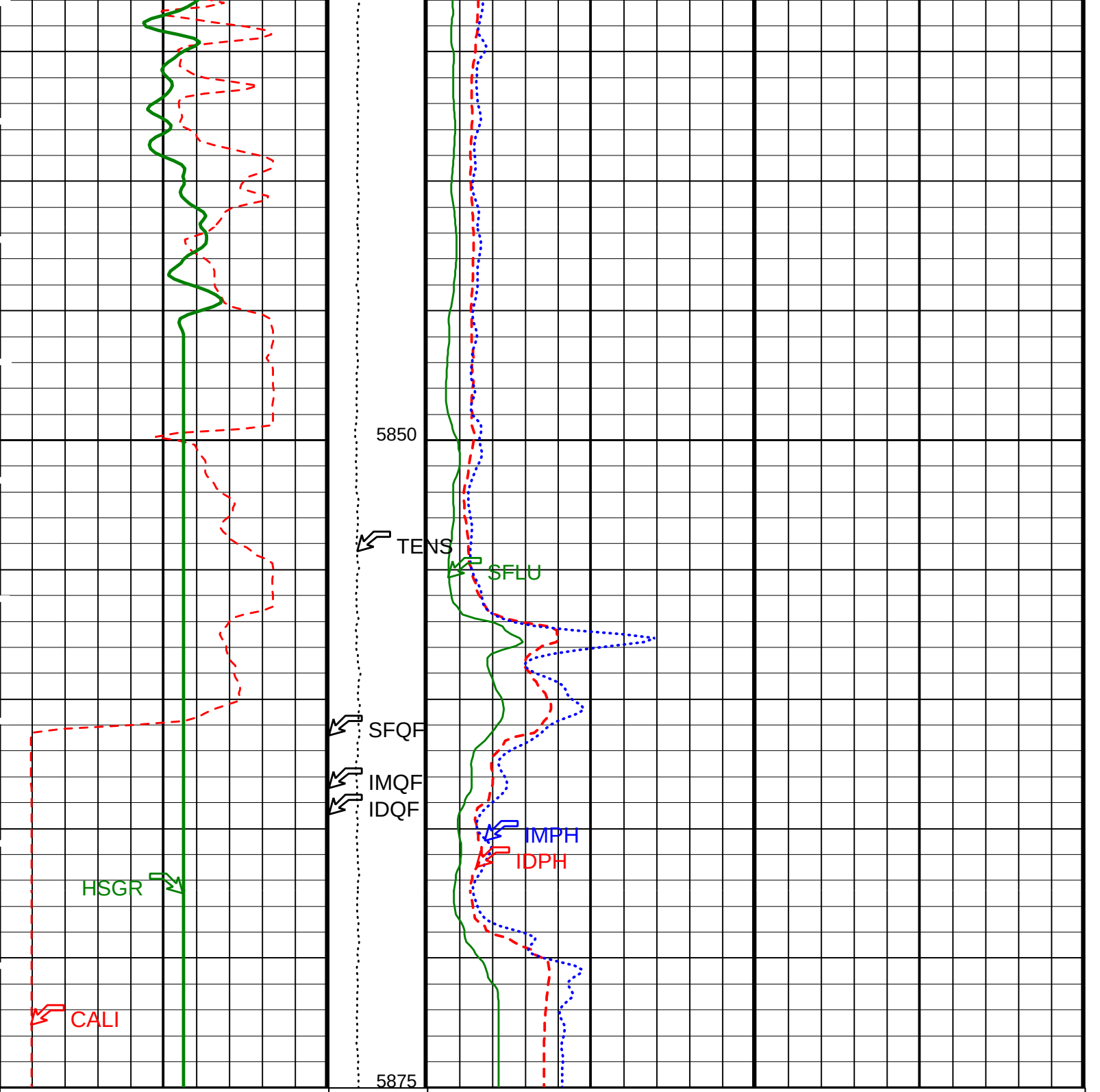

Caliper (CALI) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	Deep Induction Phasor-processed Resistivity (IDPH) 0 (OHMM) 10
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 150	ID_QUAL From IMQF to IDQF	Medium Induction Phasor-processed Resistivity (IMPH) 0 (OHMM) 10
REPEAT SECTION	IM_QUAL From SFQF to IMQF	SFL Unaveraged (SFLU) 0 (OHMM) 10
	SFL_ QUAL	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	APS Software Version	0	
	APS Cement Thickness Source	COMPUTED	
	Apparent Thickness of Cement	0	IN
AASD	APS Thermal and Array Detectors High Voltage Setting	1965.09	V
ABOS	APS Neutron Burst-Off Background Subtraction Switch	ON	
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2072.62	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1747.47	V
AOTS	APS Old Temperature Sensor Switch	NO	
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BFM	Borehole Fluid Medium	LIQUID	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	10	DEGC
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CONTYP	Conveyance Type	Wireline	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSIZ	Current Casing Size	0.000	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
CWEI	Casing Weight	0.00	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	8.20815	%
D1TC	HNGS Detector 1 Calibration Temperature	33.3413	DEGC
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.189	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.0296	%
D2TC	HNGS Detector 2 Calibration Temperature	32.3115	DEGC
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	210.126	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DEPREM1	Depth Remark 1		
DEPREM2	Depth Remark 2		
DEPREM3	Depth Remark 3		
DEPREM4	Depth Remark 4		
DEPREM5	Depth Remark 5		
DEPREM6	Depth Remark 6		
DFD	Drilling Fluid Density	8.30	G/C3
DGF2	Deep 20 kHz Gain Factor	1.01369	
DHC	Density Hole Correction	BS	
DO	Depth Offset for Logical Unit 1	0.0	M
DPH2	Deep 20 kHz Phase Shift	0.0313069	DEG
DPPM	Density Porosity Processing Mode	HIRS	
DRE2	Deep Real 20 kHz Sonde Error Correction	10.4019	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	62.2393	MM/M
FD	Fluid Density	1	G/C3
FSAL	Formation Salinity	-50000	PPM
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
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	-0.0140165	
HALF	HNGS Alpha Filter Length	60	IN
HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	

HSVN	HNGS Spectral Standards Version Number	7.7862e-035	
IDWCD	IDW Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy	
IDWCSN	IDW Calibrator Serial Number	-999	
IDWLCN	IDW Calibration Cable Type	7-46P	
IDWSN	IDW Serial Number	-999	
IDWTYP	IDW Type	IDW-B	
IDWWC1	IDW Wheel Corrrection 1	-999	
IDWWC2	IDW Wheel Corrrection 2	-999	
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	
LCSN	Logging Cable Serial Number	-999	
LOGSEQ	Log Sequence	First_Log_In_Well	
LSHC	LS Hardware Loop Control	DISALLOW	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.71	G/C3
MGF2	Medium 20 kHz Gain Factor	1.01813	
MPH2	Medium 20 kHz Phase Shift	-0.976694	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	9.02567	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MST	Mud Sample Temperature	20.00	DEGC
MXE2	Medium Quad 20 kHz Sonde Error Correction	118.848	MM/M
NARC	APS Near/Array Calibration Ratio	1.06128	
NFRC	APS Near/Far Calibration Ratio	0.893853	
NOTS	NPLC Old Temperature Sensor	NO	
NRBM	NPLC Reduced Telemetry Bandwidth Mode	OFF	
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
QPPS	Quicklook Processing Pe Select	PEFL	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
RIGTYP	Rig Type	Offshore_Floater_with_WMC	
RLDT	Reference Log Date (dd-MMM-yyyy)	dd-MMM-yyyy	
RLNM	Reference Log Name		
RLRN	Reference Log Run Number		
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RULB	Rig Up Length at Bottom	0	M
RULS	Rig Up Length at Surface	0	M
RW	Resistivity of Connate Water	1.0000	OHMM
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	26.5931	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986034	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	26.917	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.983854	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.00217055	
SBR	Shoulder Bed Resistivity Factor	1	OHMM
SCORR	Stretch Correction	-50000	M
SFCR	SFL Channel Ratio	1000	
SFLE	SFL Enable	ENABLE	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
SPAE	DIT-E SPARC Processing Enable	ENABLE	
SPNV	SP Next Value	0	MV
SSHC	SS Hardware Loop Control	DISALLOW	
STDLC	Subsequent Trip Down Log Correction	-50000	M
TD	Total Depth	6052	M
TDD	Total Depth - Driller	6052.00	M
TDL	Total Depth - Logger	5873.00	M
TNDCD	Tension Device Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy	
TNDCSN	Tension Device Calibrator Serial Number	-999	
TNDGN	Tension Device GAIN	1	
TNDOFF	Tension Device Offset	0	
TNDSN	Tension Device Serial Number	-999	
TNDTYP	Tension Device	CMTD-B/A	
TPOS	Tool Position	ECCE	
TWS	Temperature of Connate Water Sample	37.78	DEGC
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01071	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.923111	
WMUD	Mud Weight	0.994556	G/C3
ZRCS	Tool Zero Reference Check at Surface	-50000	M

Format: DITE_LinPhasor Vertical Scale: 1:200 Graphics File Created: 18-Aug-2000 21:01

OP System Version: 9C1-303

MCM

DIT-E	OP91-kp2	HLDT-A	OP91-kp2
DTA-A	OP91-kp2	NPLC-B	OP91-kp2
APS-BA	OP91-kp2	HNGS-BA	OP91-kp2
DTC-H	OP91-kp2		

Input DLIS Files

DEFAULT	DITE .021	FN:8	PRODUCER	05-Aug-2000 14:05	5875.0 M	5777.0 M

Output DLIS Files

DEFAULT	DITE .063	FN:65	PRODUCER	18-Aug-2000 21:01		

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Environment Litho Density - A Wellsite Calibration - Background Measurement							
Master: 1-JUL-2000 5:23 Before: 20-JUL-2000 15:39 After: 5-AUG-2000 21:23							
LSW1 Background	100.0	91.04	91.42	91.07	-0.3508	0.03000	CPS
LSW2 Background	105.0	95.70	95.75	94.73	-1.017	0.03000	CPS
LSW3 Background	210.0	182.9	182.9	182.3	-0.6791	0.03000	CPS
LSW4 Background	290.0	244.7	245.5	246.9	1.405	0.03000	CPS
LSW5 Background	610.0	548.1	544.9	543.3	-1.574	0.03000	CPS
SSW1 Background	100.0	88.10	88.76	88.26	-0.4932	0.03000	CPS
SSW2 Background	200.0	174.3	175.0	172.8	-2.186	0.03000	CPS
SSW3 Background	530.0	462.1	461.8	458.1	-3.682	0.03000	CPS
SSW4 Background	280.0	246.3	243.2	241.1	-2.163	0.03000	CPS
SSW5 Background	205.0	182.3	182.0	181.0	-0.9705	0.03000	CPS
Hostile Environment Litho Density - A Wellsite Calibration - Tool Quality Control Information High Voltage							
Master: 1-JUL-2000 5:23 Before: 20-JUL-2000 15:39 After: 5-AUG-2000 21:23							
LS Bkg. High Voltage	1129	1129	1130	1131	0.7391	N/A	V
SS Bkg. High Voltage	1184	1184	1180	1172	-8.083	N/A	V
Hostile Environment Litho Density - A Wellsite Calibration - Detectors Resolution From BKG Measurments							
Master: 1-JUL-2000 5:23 Before: 20-JUL-2000 15:39 After: 5-AUG-2000 21:23							
LS Background Resolution	1.000	1.041	1.040	1.038	-0.002053	N/A	
SS Background Resolution	1.000	0.9466	0.9420	0.9463	0.004300	N/A	
Hostile Environment Litho Density - A Wellsite Calibration - Caliper Calibration							
Before: 20-JUL-2000 15:23							
Caliper Small Ring	8.000	N/A	13.68	N/A	N/A	N/A	IN
Caliper Large Ring	12.00	N/A	18.44	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 26-JUN-2000 4:55 Before: 5-AUG-2000 10:38 After: 5-AUG-2000 20:12							
Near Det Bkg Cntrate	30.00	32.37	31.53	32.68	1.149	N/A	CPS
Far Det Bkg Cntrate	30.00	32.14	33.48	34.45	0.9748	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	30.09	28.73	30.26	1.525	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	29.18	30.43	30.02	-0.4088	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.29	31.35	33.60	2.253	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 26-JUN-2000 4:55							
Near/Far Calibration Ratio	0.9250	0.8939	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.061	N/A	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 25-JUN-2000 6:04 Before: 20-JUL-2000 16:42 After: 5-AUG-2000 21:25							
Na 511 Peak Loc	40.00	40.55	40.63	40.61	-0.01223	1.000	
Na 511 Peak Res	15.50	16.38	16.72	16.52	-0.2041	2.000	%
High Voltage	1150	1100	1105	1108	2.834	30.00	V
Na 1785 Peak Loc	142.6	145.7	146.3	145.7	-0.5973	7.000	
Na 1785 Peak Res	8.500	8.530	10.06	8.809	-1.253	2.000	%
Temperature	15.50	33.34	35.19	24.72	-10.48	N/A	DEGC
Na Count Rate	45.00	26.59	25.43	24.87	-0.5634	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 25-JUN-2000 6:04 Before: 20-JUL-2000 16:42 After: 5-AUG-2000 21:25							
Na 511 Peak Loc	40.00	40.64	40.70	40.67	-0.03427	1.000	
Na 511 Peak Res	15.50	15.20	14.66	14.85	0.1898	2.000	%
High Voltage	1150	1189	1195	1196	1.005	30.00	V
Na 1785 Peak Loc	142.6	144.5	145.1	145.2	0.08011	7.000	
Na 1785 Peak Res	8.500	9.442	7.631	7.413	-0.2176	2.000	%
Temperature	15.50	32.31	33.88	24.40	-9.483	N/A	DEGC
Na Count Rate	45.00	26.92	25.69	25.04	-0.6506	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							

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

Master: 25-JUN-2000 6:04 Before: 20-JUL-2000 16:42 After: 5-AUG-2000 21:25

Coincidence Count Rate Ratio	1.000	0.9864	0.9894	0.9936	0.004173	0.05000	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 25-JUN-2000 5:57

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.2	--	--	--	--	
Th Peak Res	7.000	8.208	--	--	--	--	%
Background Count Rate	142.5	17.57	--	--	--	--	CPS
Gain Ratio	1.000	0.9860	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 25-JUN-2000 5:57

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.1	--	--	--	--	
Th Peak Res	7.000	7.030	--	--	--	--	%
Background Count Rate	142.5	18.88	--	--	--	--	CPS
Gain Ratio	1.000	0.9839	--	--	--	--	

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting	1747 V
Far Detector Plateau Setting	2073 V
Array Detector Plateau Setting	1965 V

Dual Induction - E / Equipment Identification

Primary Equipment:		
Dual Induction Sonde	DIS - HB	433
Dual Induction Cartridge	DIC - EB	390
Auxiliary Equipment:		
Mass Isolated Housing	MIH - ZA	

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		65.33	Before		0.9708	Before	EXCEEDS LIMIT	10.53
	-300.0 (Minimum) 0 (Nominal) 300.0 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)			-10.00 (Minimum) 0 (Nominal) 10.00 (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		17.60	Before		0.9441	Before	EXCEEDS LIMIT	12.40
	-300.0 (Minimum) 0 (Nominal) 300.0 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)			-10.00 (Minimum) 0 (Nominal) 10.00 (Maximum)	
Phase	IM Elect Real Offset 10 kHz MM/M	Value	Phase	IM Elect Real Gain 10 kHz	Value			
Before		46.52	Before		1.142		10khz not used	
	-550.0 (Minimum) 0 (Nominal) 550.0 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)				
Phase	IM Elect Quad Offset 10 kHz MM/M	Value	Phase	IM Elect Quad Gain 10 kHz	Value			
Before		46.10	Before		1.142			
	-550.0 (Minimum) 0 (Nominal) 550.0 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)				

Before: 5-AUG-2000 13:48

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		25.63	Before		0.9748	Before		8.196
	-125.0 (Minimum) 0 (Nominal) 125.0 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)			-15.00 (Minimum) 0 (Nominal) 15.00 (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		6.874	Before		0.9478	Before		8.762
	-125.0 (Minimum) 0 (Nominal) 125.0 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)			-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)	
Phase	IM Elect Real Offset 20 kHz MM/M	Value	Phase	IM Elect Real Gain 20 kHz	Value			
Before		18.87	Before		1.185			

Before	-225.0 (Minimum)	0 (Nominal)	225.0 (Maximum)	18.87

Before	0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)	1.185

Phase	IM Elect Quad Offset 20 kHz MM/M	Value
Before	-225.0 (Minimum) / 0 (Nominal) / 225.0 (Maximum)	18.89

Phase	IM Elect Quad Gain 20 kHz	Value
Before	0.8500 (Minimum) / 1.000 (Nominal) / 1.200 (Maximum)	1.185

Before: 5-AUG-2000 13:45

Dual Induction - E Wellsite Calibration

Induction Electronics (40 kHz)

Phase	ID Elect Real Offset 40 kHz MM/M	Value
Before	-85.00 (Minimum) / 0 (Nominal) / 85.00 (Maximum)	16.69

Phase	ID Elect Real Gain 40 kHz	Value
Before	0.8500 (Minimum) / 1.000 (Nominal) / 1.200 (Maximum)	0.9470

Phase	ID Elect Phase 40 kHz DEG	Value
Before	-20.00 (Minimum) / 0 (Nominal) / 20.00 (Maximum); EXCEEDS LIMIT	24.57

Phase	ID Elect Quad Offset 40 kHz MM/M	Value
Before	-85.00 (Minimum) / 0 (Nominal) / 85.00 (Maximum)	4.453

Phase	ID Elect Quad Gain 40 kHz	Value
Before	0.8500 (Minimum) / 1.000 (Nominal) / 1.200 (Maximum)	0.9198

Phase	IM Elect Phase 40 kHz DEG	Value
Before	-20.00 (Minimum) / 0 (Nominal) / 20.00 (Maximum); EXCEEDS LIMIT	22.57

Phase	IM Elect Real Offset 40 kHz MM/M	Value
Before	-130.0 (Minimum) / 0 (Nominal) / 130.0 (Maximum)	11.97

Phase	IM Elect Real Gain 40 kHz	Value
Before	0.8500 (Minimum) / 1.000 (Nominal) / 1.200 (Maximum)	1.167

40khz not used

Phase	IM Elect Quad Offset 40 kHz MM/M	Value
Before	-130.0 (Minimum) / 0 (Nominal) / 130.0 (Maximum)	12.02

Phase	IM Elect Quad Gain 40 kHz	Value
Before	0.8500 (Minimum) / 1.000 (Nominal) / 1.200 (Maximum)	1.167

Before: 5-AUG-2000 13:49

Dual Induction - E Wellsite Calibration

SFL Electronics

Phase	SFL Voltage Offset MV	Value
Before	-15.00 (Minimum) / 0 (Nominal) / 15.00 (Maximum)	-0.1737

Phase	SFL Voltage Gain	Value
Before	0.8500 (Minimum) / 1.000 (Nominal) / 1.200 (Maximum)	0.9763

Phase	SFL Current Offset MA	Value
Before	-0.6000 (Minimum) / 0 (Nominal) / 0.6000 (Maximum)	0.07913

Phase	SFL Current Gain	Value
Before	0.8500 (Minimum) / 1.000 (Nominal) / 1.200 (Maximum)	0.9927

Before: 5-AUG-2000 13:50

Dual Induction - E Wellsite Calibration

Electronics Calibration Changes Files/Depth Intervals: 21: 5875.0 - 5777.0 24: 5833.9 - 5550.0

Phase	ID (R > 27 OHM-M) MM/M	Value
After	0 (Minimum) / 0 (Nominal) / 0.7500 (Maximum)	0.2677

Phase	ID (R < 27 OHM-M) %	Value
After	0 (Minimum) / 0 (Nominal) / 2.000 (Maximum)	0.002370

Phase	SFL (R < 1 OHM-M) OHMM	Value
After	0 (Minimum) / 0 (Nominal) / 0.02000 (Maximum)	0.0004267

Phase	IM (R > 27 OHM-M) MM/M	Value
After	0 (Minimum) / 0 (Nominal) / 0.7500 (Maximum)	0.2067

Phase	IM (R < 27 OHM-M) %	Value
After	0 (Minimum) / 0 (Nominal) / 2.000 (Maximum)	0.0003266

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

Phase	SFL (R < 27 OHM-M) %	Value
After	0 (Minimum) / 0 (Nominal) / 2.000 (Maximum)	0.0002675

After: 5-AUG-2000 18:12

Dual Induction - E Master Calibration

Test Loop Calibration: Calibration of Internal Reference to Test Loop Standard

Phase	Deep 10 kHz Gain Factor	Value
Master	0.9000 (Minimum) / 1.000 (Nominal) / 1.100 (Maximum)	1.001

Phase	Deep 20 kHz Gain Factor	Value
Master	0.9000 (Minimum) / 1.000 (Nominal) / 1.100 (Maximum)	1.014

Phase	Deep 40 kHz Gain Factor	Value
Master	0.9000 (Minimum) / 1.000 (Nominal) / 1.100 (Maximum)	1.026

Phase	Medium 10 kHz Gain Factor	Value
Master		1.013

Phase	Medium 20 kHz Gain Factor	Value
Master		1.018

Phase	Medium 40 kHz Gain Factor	Value
Master		1.042

0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)

Phase	Deep 10 kHz Phase Shift	Value
Master		0.2311
-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)

Phase	Deep 20 kHz Phase Shift	Value
Master		0.03131
-2.000 (Minimum)	0 (Nominal)	2.000 (Maximum)

Phase	Deep 40 kHz Phase Shift	Value
Master		-1.164
-4.000 (Minimum)	-1.000 (Nominal)	2.000 (Maximum)

Phase	Medium 10 kHz Phase Shift	Value
Master		-0.3315
-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)

Phase	Medium 20 kHz Phase Shift	Value
Master		-0.9767
-3.000 (Minimum)	-1.000 (Nominal)	1.000 (Maximum)

Phase	Medium 40 kHz Phase Shift	Value
Master		-2.343
-5.000 (Minimum)	-2.000 (Nominal)	1.000 (Maximum)

Master: Calibration out of date 13-DEC-1999 15:43

Dual Induction - E Master Calibration

Sonde Error Corrections: Correction for sonde response in zero conductivity environment. (Normalized to 25C).

Phase	Real Deep 10 kHz S.E. Corr.	Value
Master		28.89
-50.00 (Minimum)	0 (Nominal)	125.0 (Maximum)

Phase	Real Deep 20 kHz S.E. Corr.	Value
Master		10.40
-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

Phase	Real Deep 40 kHz S.E. Corr.	Value
Master		0.002010
-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)

Phase	Quad Deep 10 kHz S.E. Corr.	Value
Master		104.7
-250.0 (Minimum)	0 (Nominal)	350.0 (Maximum)

Phase	Quad Deep 20 kHz S.E. Corr.	Value
Master		62.24
-125.0 (Minimum)	0 (Nominal)	200.0 (Maximum)

Phase	Quad Deep 40 kHz S.E. Corr.	Value
Master		46.63
-75.00 (Minimum)	0 (Nominal)	125.0 (Maximum)

Phase	Real Medium 10 kHz S.E. Corr.	Value
Master		50.90
-50.00 (Minimum)	0 (Nominal)	140.0 (Maximum)

Phase	Real Medium 20 kHz S.E. Corr.	Value
Master		9.026
-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)

Phase	Real Medium 40 kHz S.E. Corr.	Value
Master		-2.418
-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

Phase	Quad Medium 10 kHz S.E. Corr.	Value
Master		208.1
-1300 (Minimum)	0 (Nominal)	1300 (Maximum)

Phase	Quad Medium 20 kHz S.E. Corr.	Value
Master		118.8
-650.0 (Minimum)	0 (Nominal)	650.0 (Maximum)

Phase	Quad Medium 40 kHz S.E. Corr.	Value
Master		88.56
-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)

Master: Calibration out of date 13-DEC-1999 15:51

Hostile Environment Litho Density - A / Equipment Identification

Primary Equipment:		
HOSTILE ENVIRONMENT LITHO DENSITY HIGH V	HLDV - A	10
HOSTILE ENVIRONMENT LITHO DENSITY CARTRI	HLDC - AA	11
Gamma Source Radioactive	GSR - Z	1846
Auxiliary Equipment:		
HOSTILE ENVIRONMENT LITHO DENSITY SONDE	HLDS - B	10
HOSTILE ENVIRONMENT ELECTRONICS CARTRIDG	HEH - H	12
HOSTILE ENVIRONMENT ELECTRONICS CARTRIDG	HEH - G	11
HOSTILE ENVIRONMENT LITHO DENSITY PAD	HLDP - B	10

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 - BA	22
APS Minitron	MNTR - F	4185
Auxiliary Equipment:		
Accelerator-Porosity Housing	APH - AC	22
APS Calibration Water Tank	SFT - 178	4722
APS Aluminium Calibrator Sleeve	SFT - 281	24

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		40.55
Before		40.63
After		40.61
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		16.38
Before		16.72
After		16.52
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1100
Before		1105
After		1108
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		145.7
Before		146.3
After		145.7
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		8.530
Before		10.06
After		8.809
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		33.34
Before		35.19
After		24.72
	-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		26.59
Before		25.43
After		24.87
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 25-JUN-2000 6:04 Before: 20-JUL-2000 16:42 After: 5-AUG-2000 21:25

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		40.64
Before		40.70
After		40.67
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		15.20
Before		14.66
After		14.85
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1189
Before		1195
After		1196
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		144.5
Before		145.1
After		145.2
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		9.442
Before		7.631
After		7.413
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		32.31
Before		33.88
After		24.40
	-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		26.92
Before		25.69
After		25.04
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 25-JUN-2000 6:04 Before: 20-JUL-2000 16:42 After: 5-AUG-2000 21:25

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9864
Before		0.9894

After			0.9936
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)

Master: 25-JUN-2000 6:04

Before: 20-JUL-2000 16:42

After: 5-AUG-2000 21:25

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		210.2	Master		8.208
	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	EXCEEDS LIMIT	17.57	Master		0.9860		See Remarks	
	20.00 (Minimum) / 142.5 (Nominal) / 265.0 (Maximum)			0.9400 (Minimum) / 1.000 (Nominal) / 1.060 (Maximum)				

Master: 25-JUN-2000 5:57

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		210.1	Master		7.030
	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	EXCEEDS LIMIT	18.88	Master		0.9839		See Remarks	
	20.00 (Minimum) / 142.5 (Nominal) / 265.0 (Maximum)			0.9400 (Minimum) / 1.000 (Nominal) / 1.060 (Maximum)				

Master: 25-JUN-2000 5:57

COMPANY:	Lamont Doherty
WELL:	ODP Leg 191, Site 1179D (WP-2A)
FIELD:	West Pacific ION
COUNTY:	Offshore
STATE:	Pacific Ocean

BOTTOM LOG INTERVAL	5871 m
SCHLUMBERGER DEPTH	5873 m
DEPTH DRILLER	6052 m
KELLY BUSHING	11.3 m
DRILL FLOOR	11 m
GROUND LEVEL	-5566 m

Schlumberger

Phasor Induction
Natural Gamma Ray