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OTHER SERVICES1
 OS1: FMS
 OS2: APS/HLDS
 OS3:
 OS4:
 OS5:

OTHER SERVICES2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1
 HGTC (HighTemp/High Pressure Gamma Ray Telemetry Cartridge) used with LEH-QO head and MTEM sensor.
 Log presented in meters below rig floor. Sea floor at 1652 mbrf.
 Wireline heave compensator used on all descents.
 Sea water used as mud in hole.
 Log TD at 2008 mbrf and tool could not reach drillers depth of 2039.7 mbrf.
 Maximum temperature recorded from MTEM sensor in head.
 Toolstring-DITE/DTA/HGTC/LEHQO, Mud weight does not affect processing of DITE or HGTC.
 Induction Medium curve spiking due to tool problems.

REMARKS: RUN NUMBER 2

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

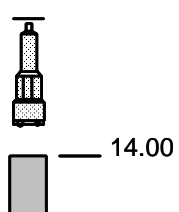
SURFACE EQUIPMENT
 WITM (DTS)-A

RUN 2

DOWNHOLE EQUIPMENT

LEH-MT 14.96
 LEH-MT 1

Mud Tempe 14.00
 HTGC-B 14.00
 UDFH-KL 1062



STGC0-A 8038
STGC1-BH 8038
MTEM 1

Gamma Ray — 12.97
CTEM — 12.10
TelStatus — 10.74

DTA-A
ECH-KE 8455
DTA-A 8261

10.74

DIT-E
DIC-EB 398
MIH-ZA 390
DIS-HB 433

9.52

SP — 3.15
Deep Ind — 2.90
Aux Meas SFL — 1.98
Med Ind — 1.83
HV DF —
Status ACCZ —
Tension — 0.00
TOOL ZERO

MAXIMUM STRING DIAMETER 3.75 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Output DLIS Files

DEFAULT	DITE .007	FN:10 PRODUCER	21-Dec-2000 03:36	2010.0 M	1821.2 M
LAMONT	DITE .007	FN:11 PRODUCER	21-Dec-2000 03:36	2010.0 M	1821.2 M

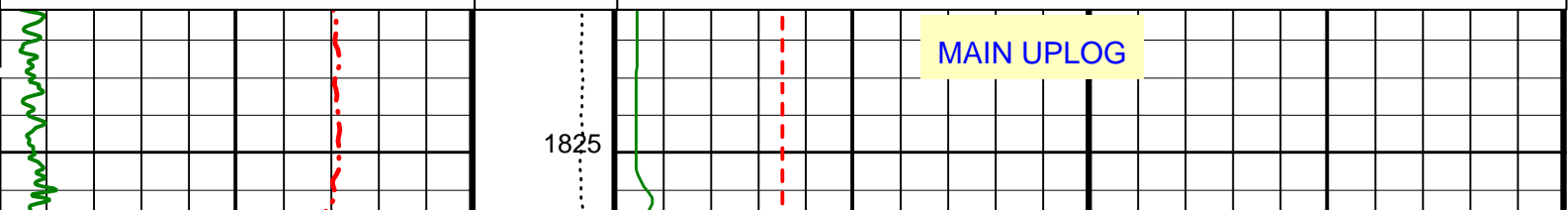
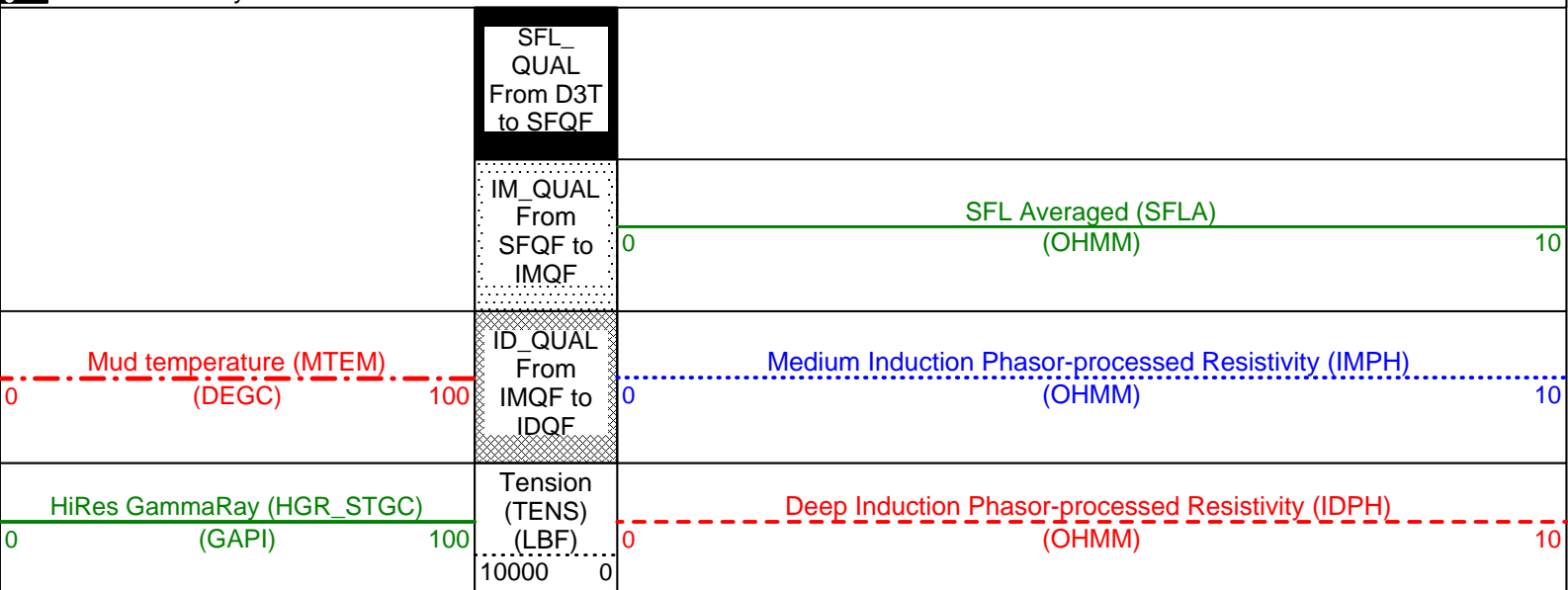
OP System Version: 9C1-303

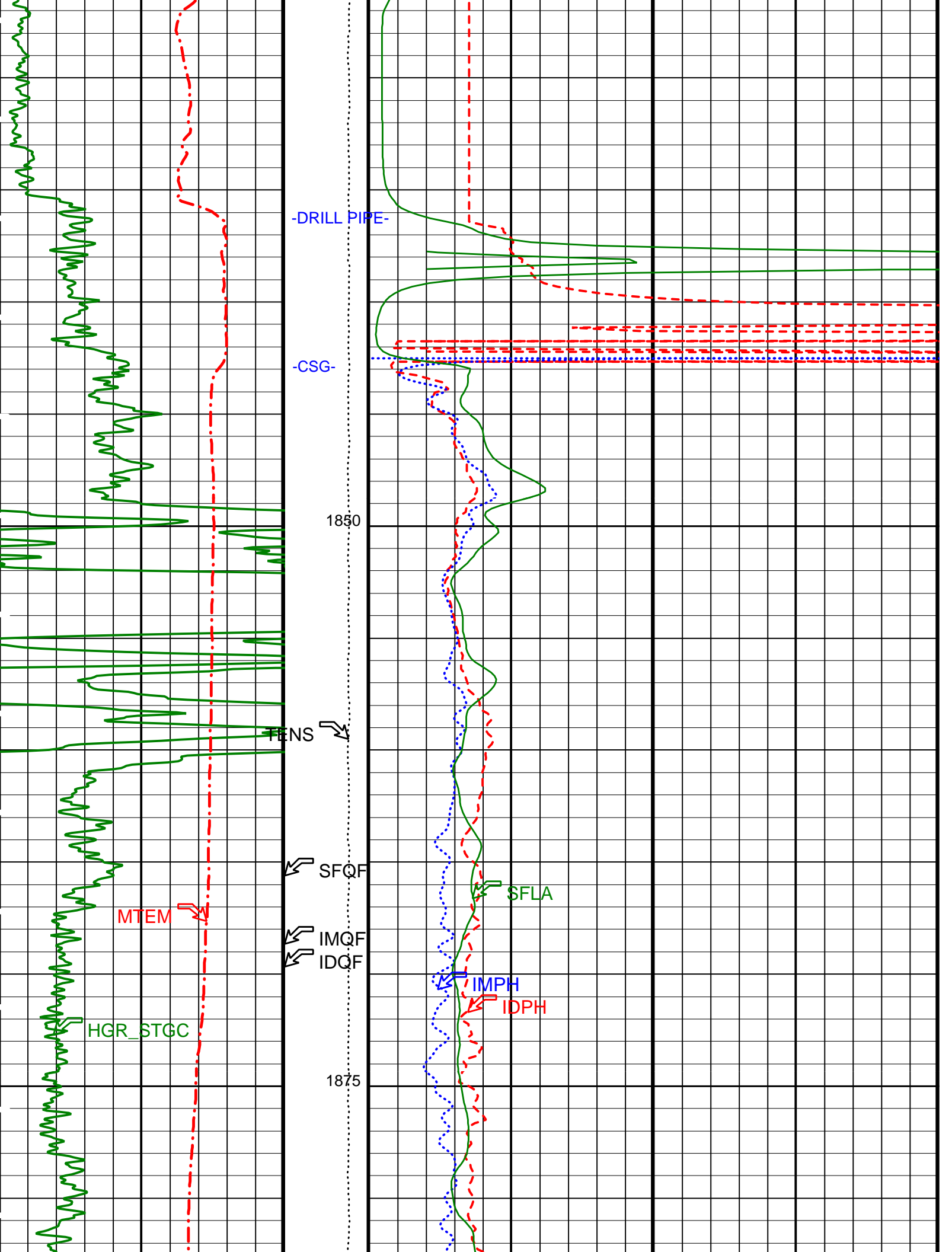
MCM

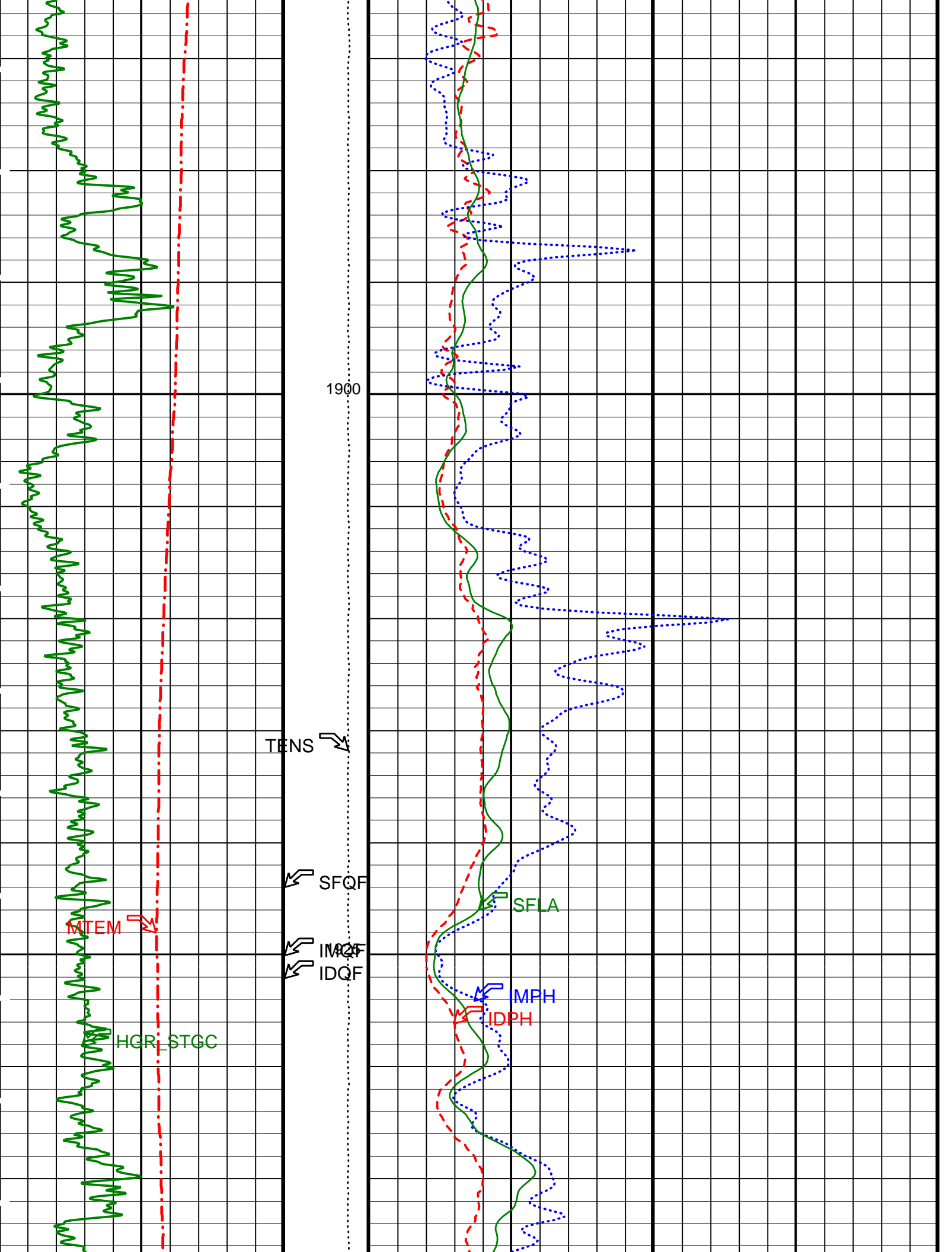
DIT-E HTGC-B	OP91-kp2 OP91-kp2	DTA-A	OP91-kp2
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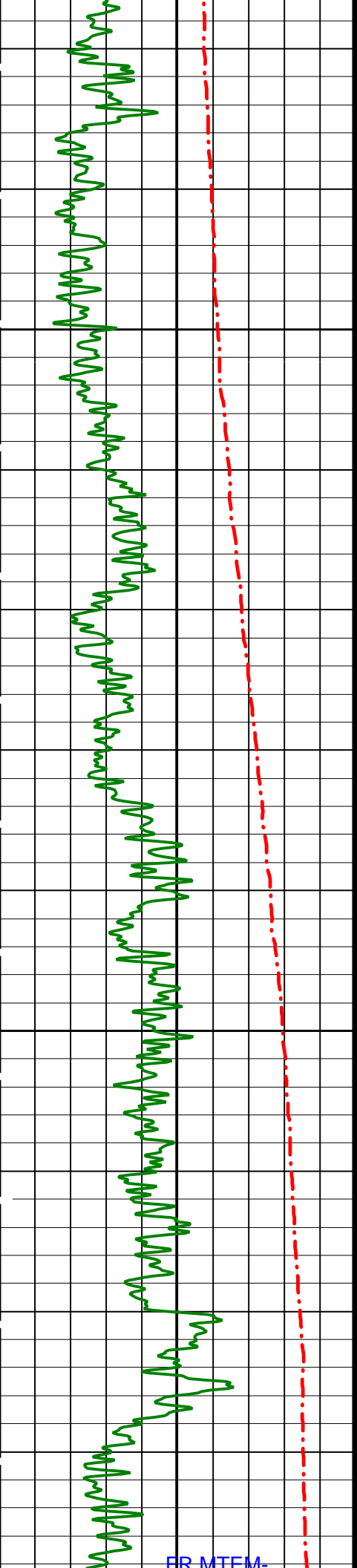
PIP SUMMARY

▶ Time Mark Every 60 S



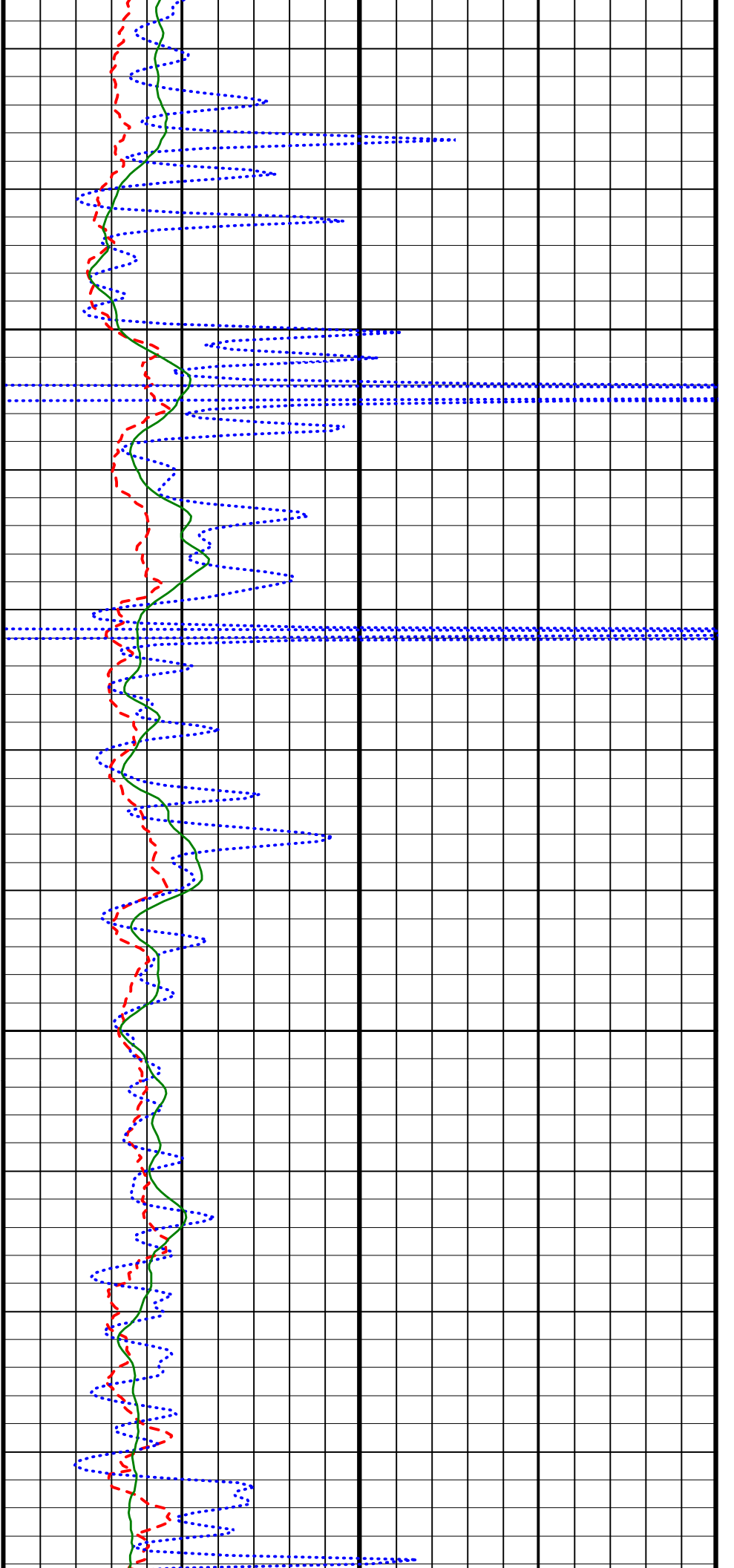




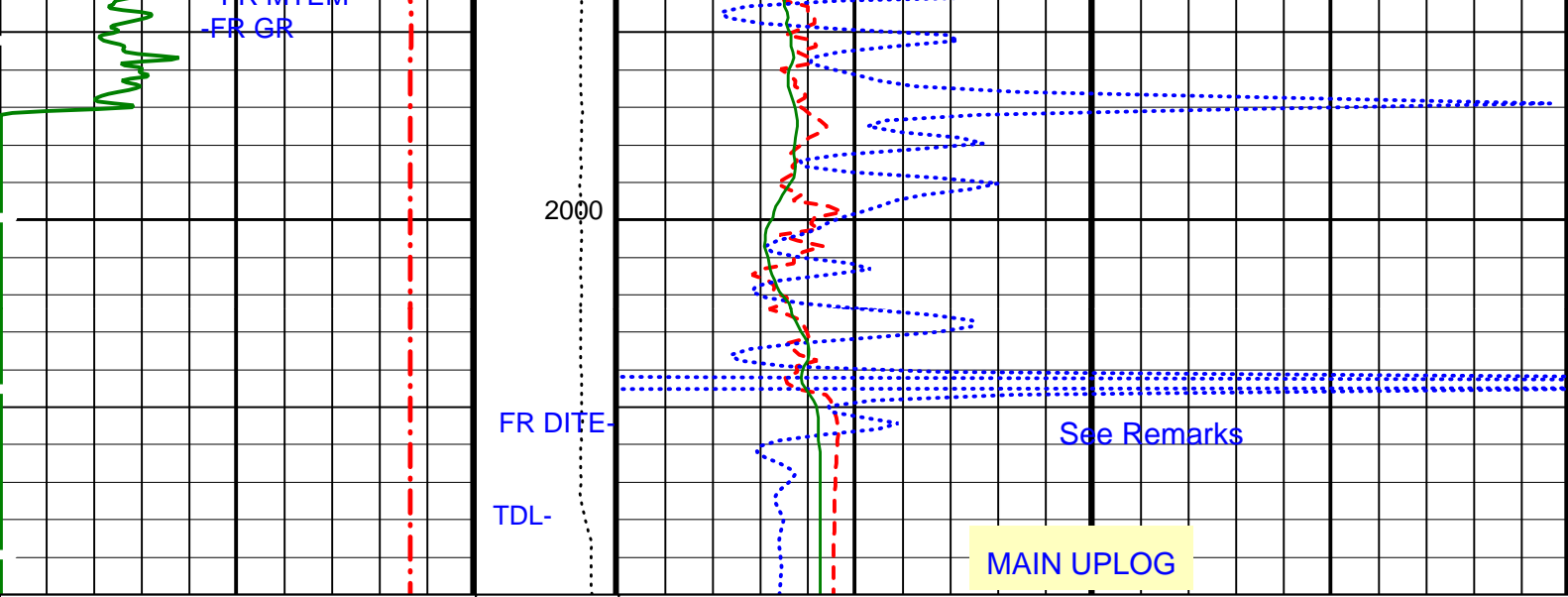


1950

1975



FR MTEM-



HiRes GammaRay (HGR_STGC) (GAPI)	Tension (TENS) (LBF)	Deep Induction Phasor-processed Resistivity (IDPH) (OHMM)
Mud temperature (MTEM) (DEGC)	ID_QUAL From IMQF to IDQF	Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)
	IM_QUAL From SFQF to IMQF	SFL Averaged (SFLA) (OHMM)
	SFL_QUAL From D3T to SFQF	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth
BHFL	Borehole Fluid Type	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	212 DEG F
BS	Bit Size	7.250 IN
BSAL	Borehole Salinity	-50000.00 PPM
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
CONLYP	Conveyance Type	Wireline
CSIZ	Current Casing Size	0.000 IN
CWEI	Casing Weight	0.00 LB/F
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
DGF1	Deep 10 kHz Gain Factor	1.02478
DGF2	Deep 20 kHz Gain Factor	1.03796
DGF4	Deep 40 kHz Gain Factor	1.04684
DPH1	Deep 10 kHz Phase Shift	0.337829 DEG
DPH2	Deep 20 kHz Phase Shift	0.0287995 DEG
DPH4	Deep 40 kHz Phase Shift	-1.17906 DEG
DPPM	Density Porosity Processing Mode	HIRS
DRE1	Deep Real 10 kHz Sonde Error Correction	36.2922 MM/M
DRE2	Deep Real 20 kHz Sonde Error Correction	12.4119 MM/M
DRE4	Deep Real 40 kHz Sonde Error Correction	1.3799 MM/M

DRIM	DIT-E Radial Invasion Mode	Rxo>Rt		
DSR1	Deep Sigma Reference (10 kHz)	7637	MM/M	
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M	
DSR4	Deep Sigma Reference (40 kHz)	405	MM/M	
DSTA	DIT-E Transversal Standoff	0	IN	
DXE1	Deep Quad 10 kHz Sonde Error Correction	103.078	MM/M	
DXE2	Deep Quad 20 kHz Sonde Error Correction	66.4513	MM/M	
DXE4	Deep Quad 40 kHz Sonde Error Correction	49.4736	MM/M	
FSAL	Formation Salinity	-50000	PPM	
FSCO	Formation Salinity Correction Option	NO		
GCSE	Generalized Caliper Selection	BS		
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG	
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
HSCO	Hole Size Correction Option	YES		
IDWCD	IDW Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy		
IDWCSN	IDW Calibrator Serial Number	-999		
IDWLGN	IDW Calibration Cable Type	7-46P		
IDWSN	IDW Serial Number	-999		
IDWTYP	IDW Type	IDW-B		
IDWWC1	IDW Wheel Correction 1	1		
IDWWC2	IDW Wheel Correction 2	1		
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		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
MCCO	Mud Cake Correction Option	NO		
MCOR	Mud Correction	NATU		
MGF1	Medium 10 kHz Gain Factor	1		
MGF2	Medium 20 kHz Gain Factor	1		
MGF4	Medium 40 kHz Gain Factor	1		
MPH1	Medium 10 kHz Phase Shift	0	DEG	
MPH2	Medium 20 kHz Phase Shift	0	DEG	
MPH4	Medium 40 kHz Phase Shift	0	DEG	
MRE1	Medium Real 10 kHz Sonde Error Correction	51.8723	MM/M	
MRE2	Medium Real 20 kHz Sonde Error Correction	11.6535	MM/M	
MRE4	Medium Real 40 kHz Sonde Error Correction	1.84624	MM/M	
MSR1	Medium Sigma Reference (10 kHz)	13520	MM/M	
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M	
MSR4	Medium Sigma Reference (40 kHz)	685	MM/M	
MST	Mud Sample Temperature	-50000.00	DEGC	
MWCO	Mud Weight Correction Option	NO		
MXE1	Medium Quad 10 kHz Sonde Error Correction	211.774	MM/M	
MXE2	Medium Quad 20 kHz Sonde Error Correction	119.446	MM/M	
MXE4	Medium Quad 40 kHz Sonde Error Correction	86.3989	MM/M	
PBVSADP	Use alternate depth channel for playback	NO		
PTCO	Pressure/Temperature Correction Option	NO		
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	FT	
RULS	Rig Up Length at Surface	0	FT	
RW	Resistivity of Connate Water	1.0000	OHMM	
SBR	Shoulder Bed Resistivity Factor	1	OHMM	
SCORR	Stretch Correction	-50000	FT	
SDAT	Standoff Data Source	SOCN		
SFCR	SFL Channel Ratio	1000		
SFLE	SFL Enable	ENABLE		
SHT	Surface Hole Temperature	68	DEGF	
SOCN	Standoff Distance	0	IN	
SOCO	Standoff Correction Option	NO		
SPAE	DIT-E SPARC Processing Enable	ENABLE		
SPNV	SP Next Value	0	MV	
STDLC	Subsequent Trip Down Log Correction	-50000	FT	
TD	Total Depth	6691.9	FT	
TDD	Total Depth - Driller	-50000.00	M	
TDL	Total Depth - Logger	-50000.00	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_STGC	Tool Centered/Eccentered	Eccentered		
TWS	Temperature of Connate Water Sample	37.78	DEGC	
ZRCS	Tool Zero Reference Check at Surface	-50000	FT	

OP System Version: 9C1-303

MCM

DIT-E
HTGC-B

OP91-kp2
OP91-kp2

DTA-A

OP91-kp2

Output DLIS Files

DEFAULT	DITE .007	FN:10	PRODUCER	21-Dec-2000 03:36
LAMONT	DITE .007	FN:11	PRODUCER	21-Dec-2000 03:36

Output DLIS Files

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LAMONT	DITE .008	FN:13	PRODUCER	21-Dec-2000 04:49	1914.8 M	1614.1 M

OP System Version: 9C1-303

MCM

DIT-E
HTGC-B

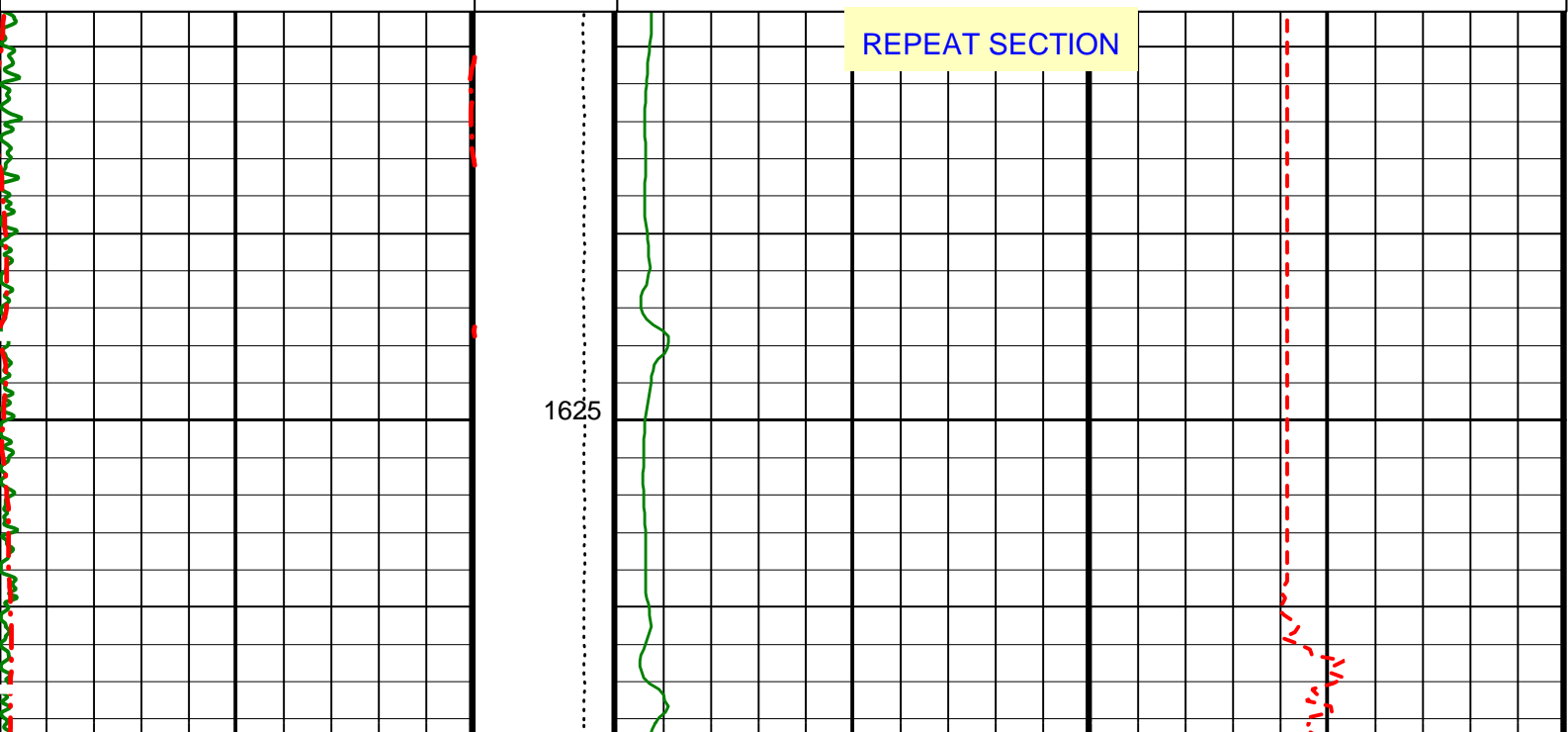
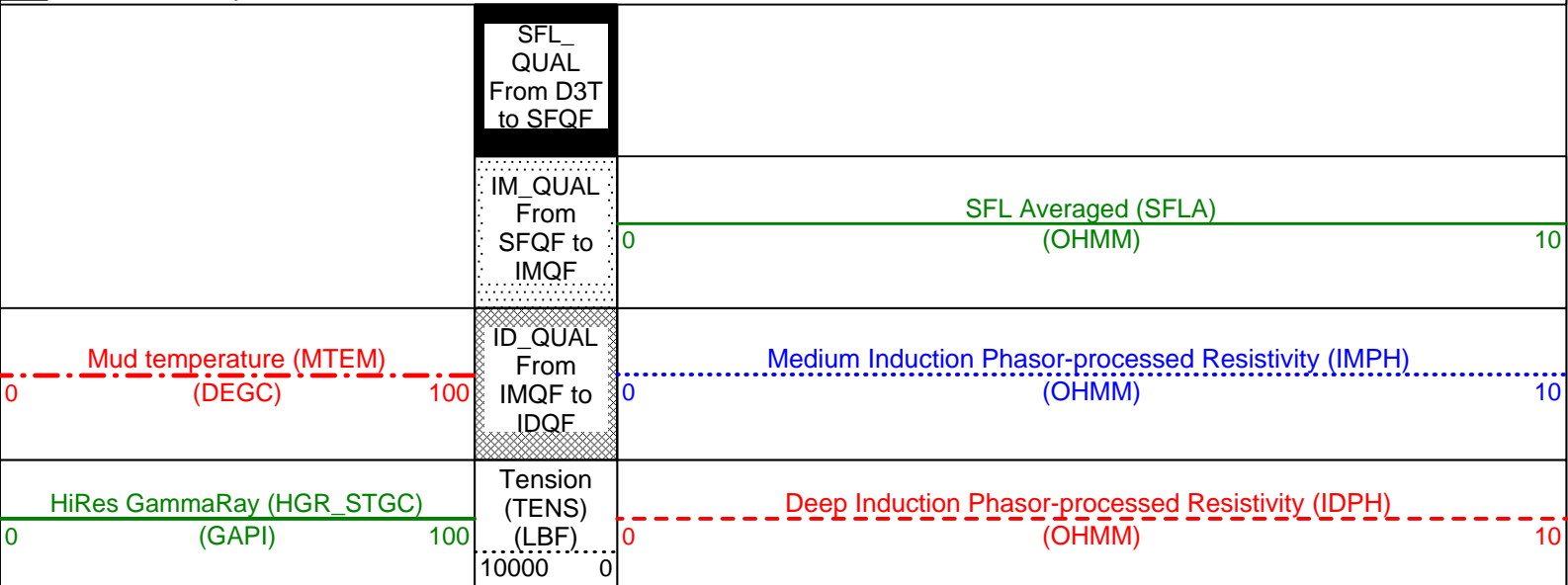
OP91-kp2
OP91-kp2

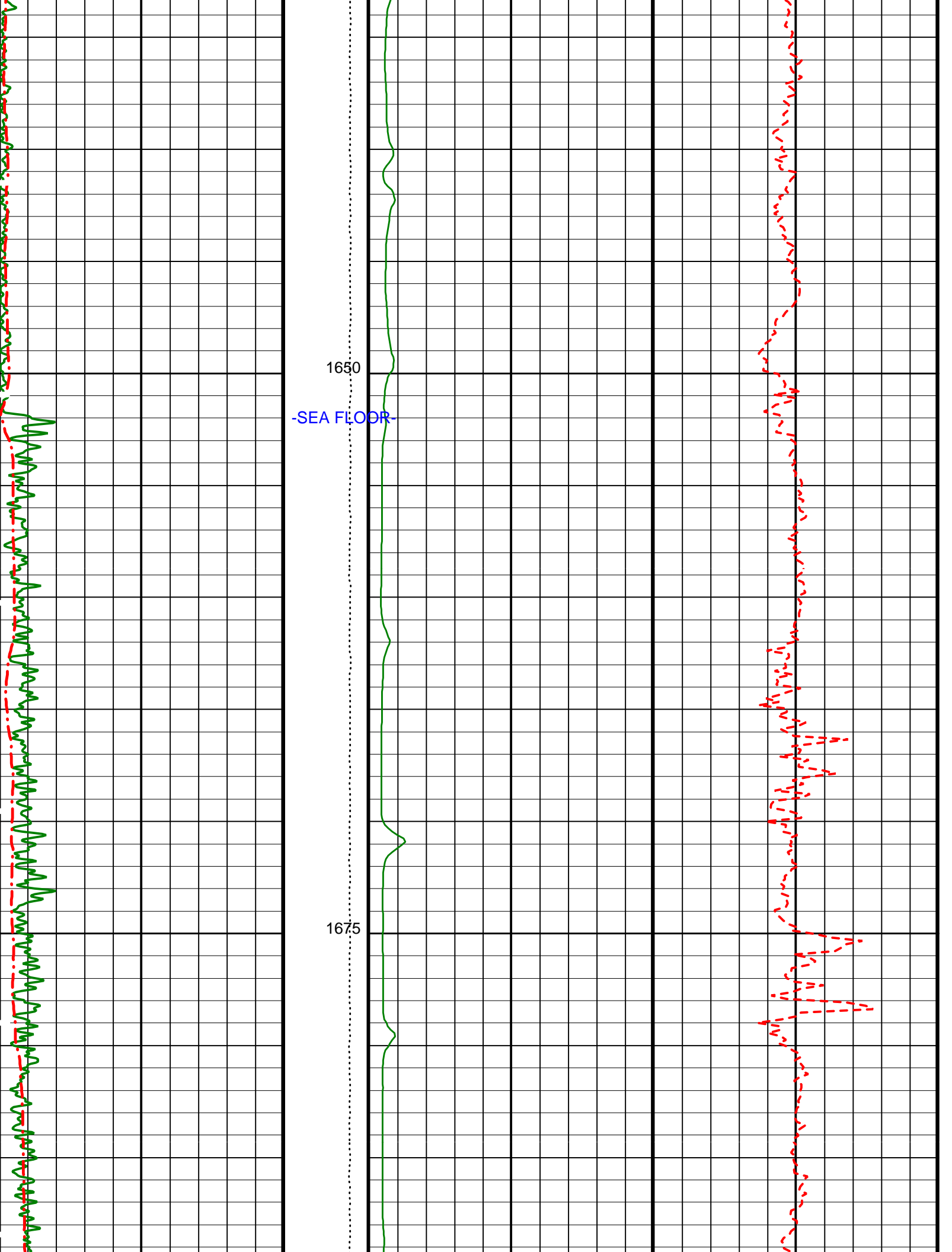
DTA-A

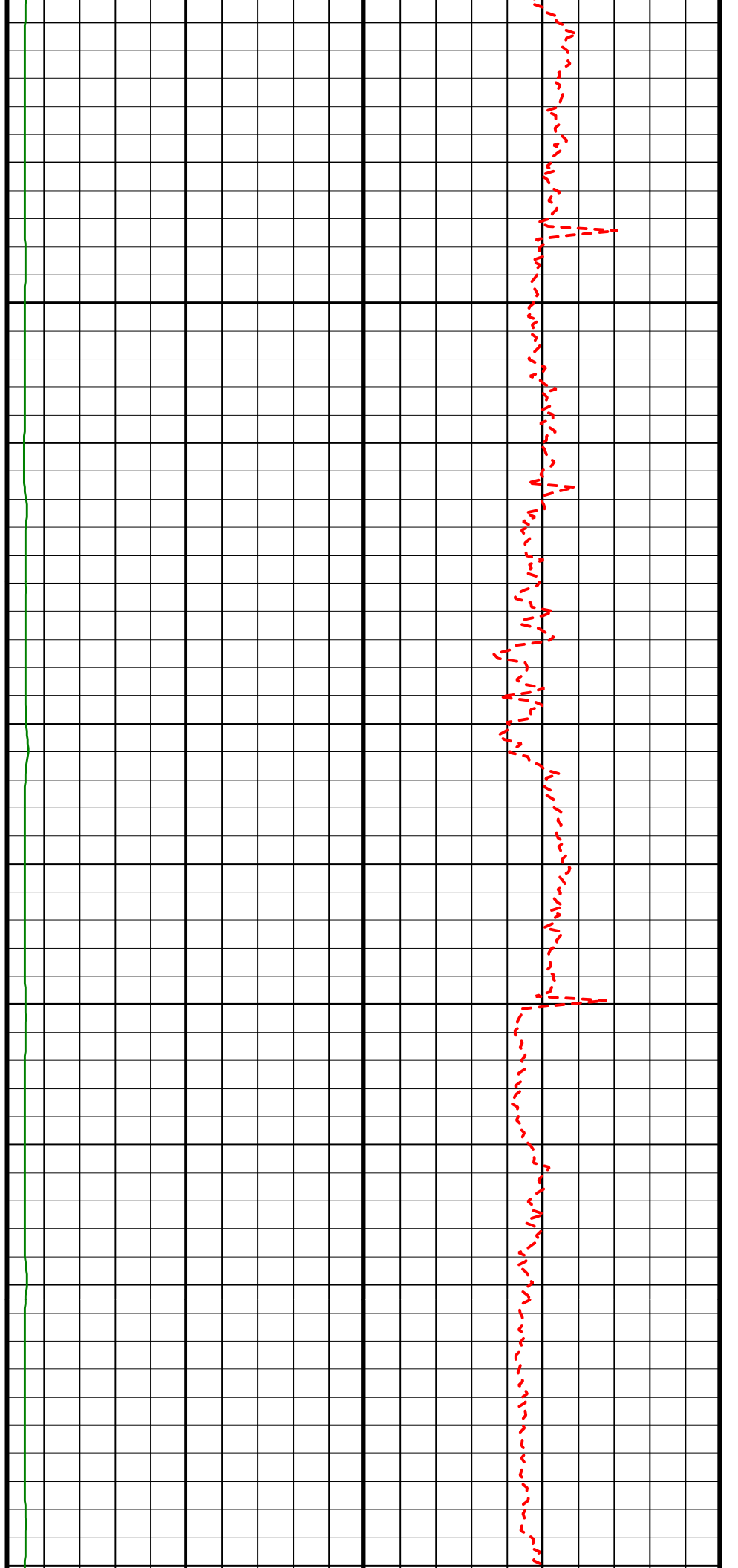
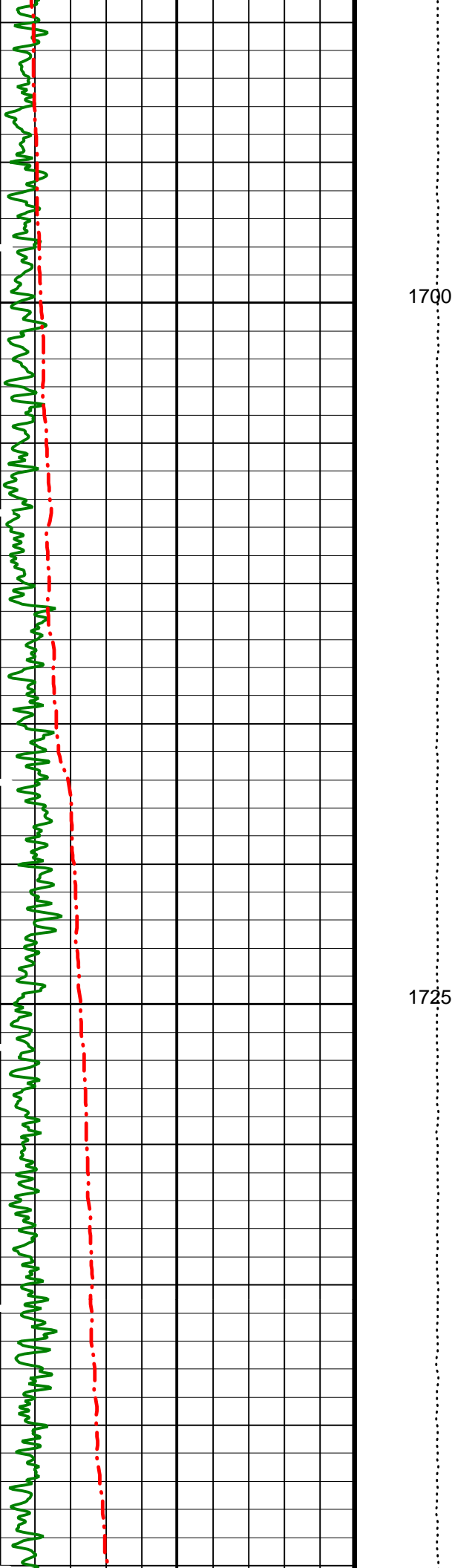
OP91-kp2

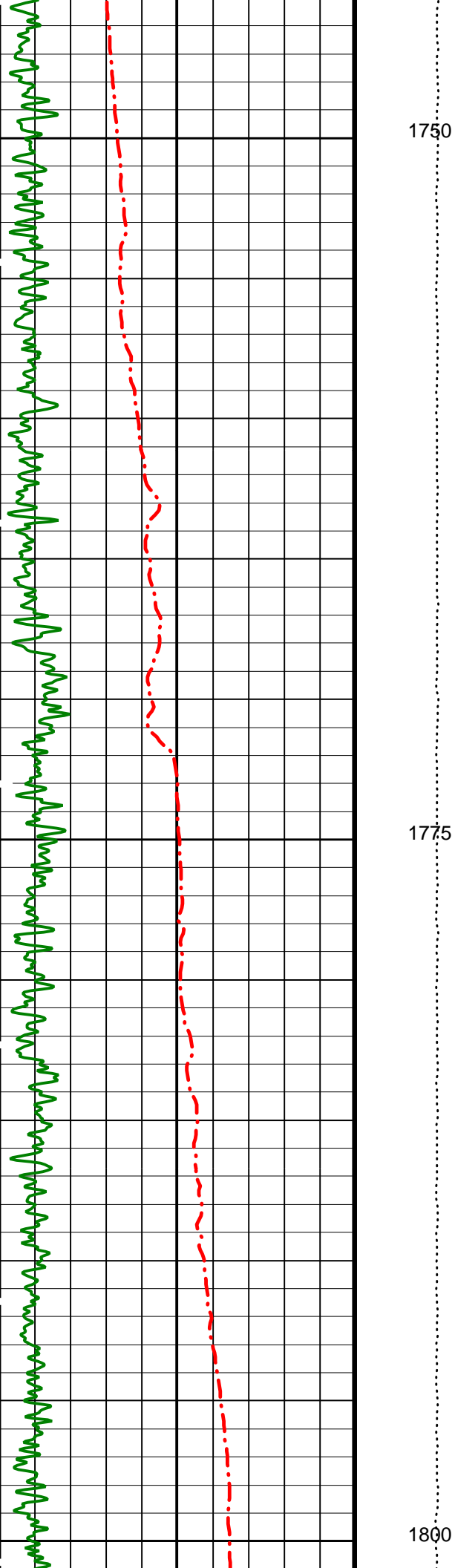
PIP SUMMARY

Time Mark Every 60 S





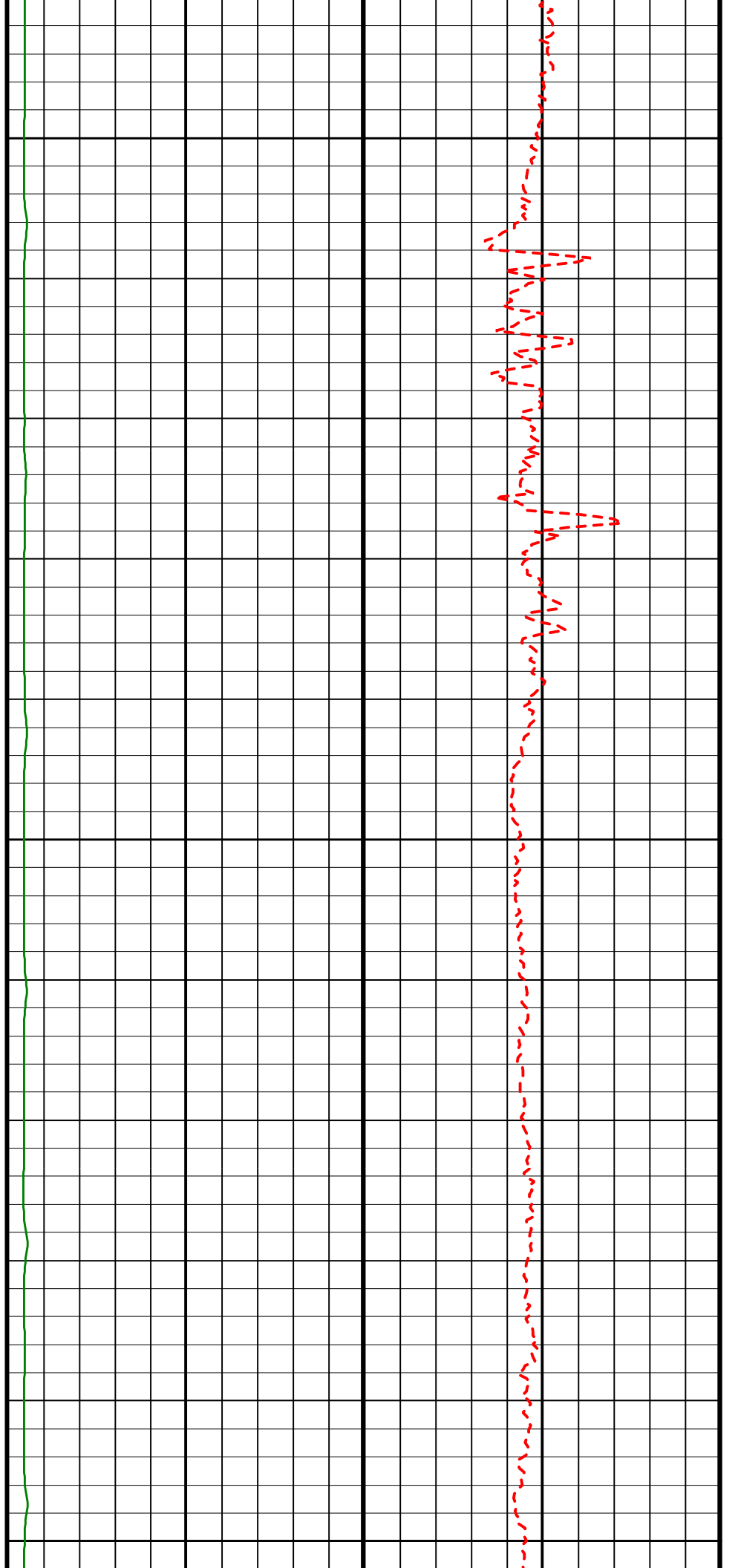


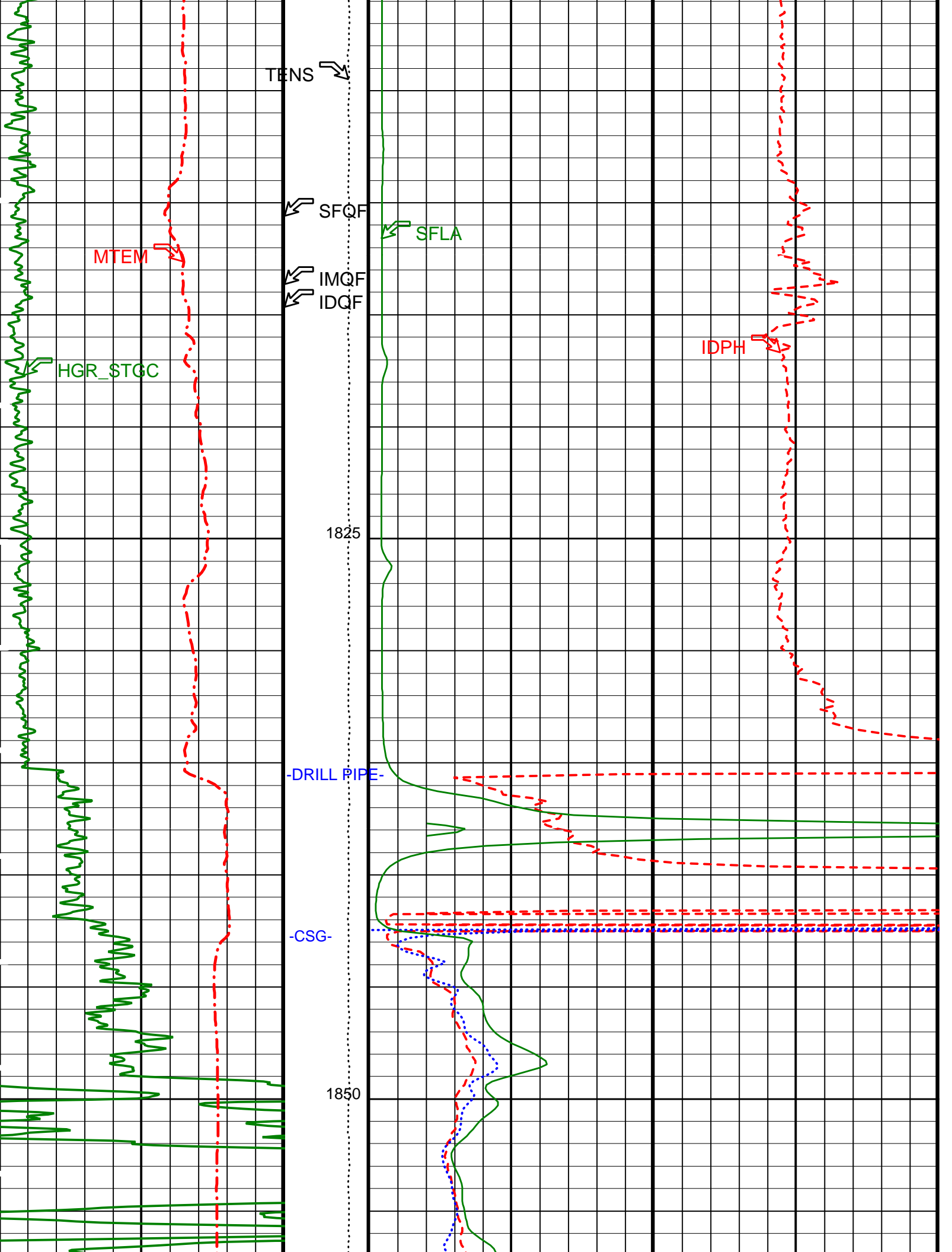


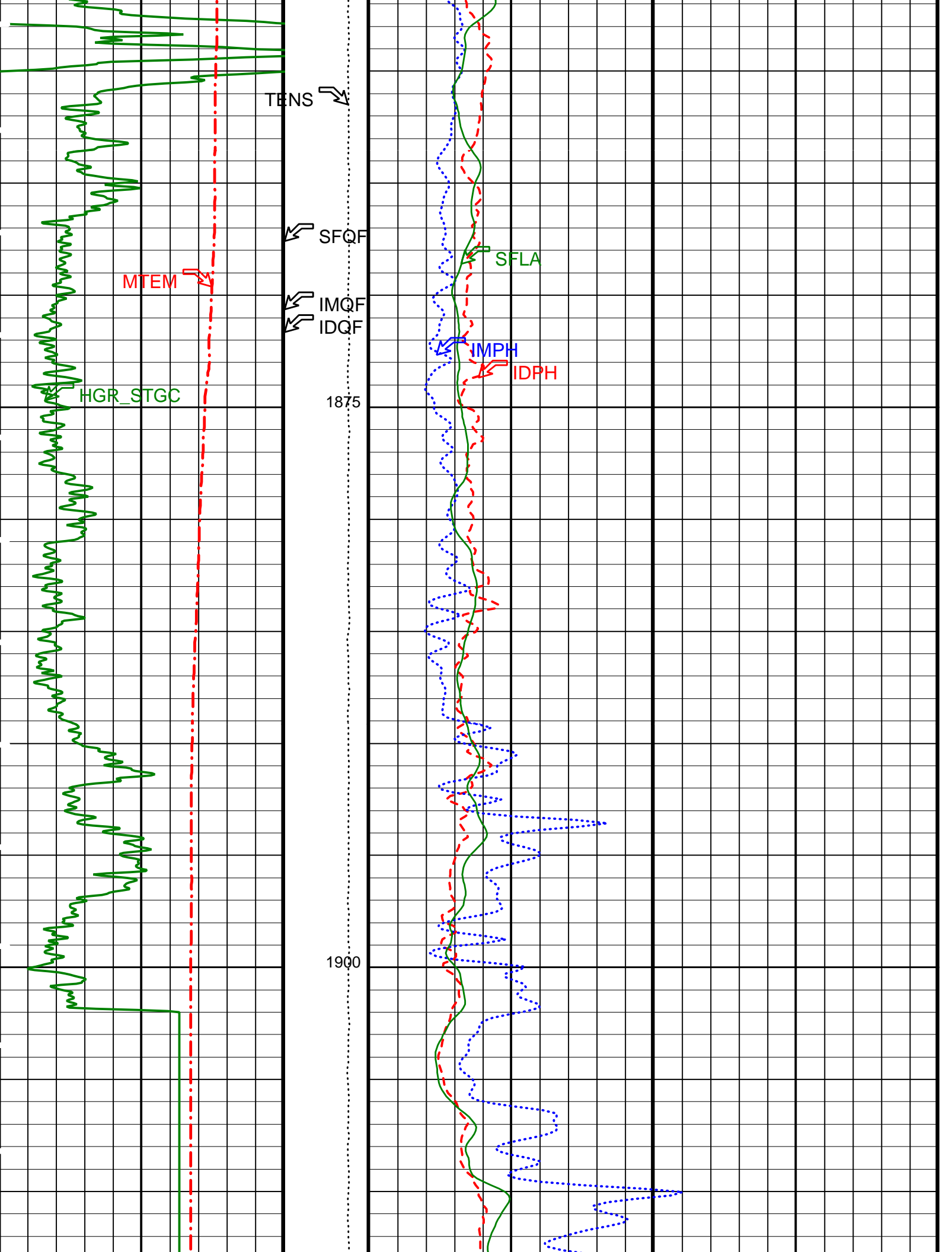
1750

1775

1800







HiRes GammaRay (HGR_STGC) (GAPI)	Tension (TENS) (LBF)	Deep Induction Phasor-processed Resistivity (IDPH) (OHMM)
0 100	0 10000	0 10
Mud temperature (MTEM) (DEGC)	ID_QUAL From IMQF to IDQF	Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)
0 100		0 10
	IM_QUAL From SFQF to IMQF	SFL Averaged (SFLA) (OHMM)
		0 10
	SFL_QUAL From D3T to SFQF	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth
BHFL	Borehole Fluid Type	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	212 DEG
BS	Bit Size	7.250 IN
BSAL	Borehole Salinity	-50000.00 PPM
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
CONTYP	Conveyance Type	Wireline
CSIZ	Current Casing Size	0.000 IN
CWEI	Casing Weight	0.00 LB/F
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
DGF1	Deep 10 kHz Gain Factor	1.02478
DGF2	Deep 20 kHz Gain Factor	1.03796
DGF4	Deep 40 kHz Gain Factor	1.04684
DPH1	Deep 10 kHz Phase Shift	0.337829 DEG
DPH2	Deep 20 kHz Phase Shift	0.0287995 DEG
DPH4	Deep 40 kHz Phase Shift	-1.17906 DEG
DPPM	Density Porosity Processing Mode	HIRS
DRE1	Deep Real 10 kHz Sonde Error Correction	36.2922 MM/M
DRE2	Deep Real 20 kHz Sonde Error Correction	12.4119 MM/M
DRE4	Deep Real 40 kHz Sonde Error Correction	1.3799 MM/M
DRIM	DIT-E Radial Invasion Mode	Rxo>Rt
DSR1	Deep Sigma Reference (10 kHz)	7637 MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843 MM/M
DSR4	Deep Sigma Reference (40 kHz)	405 MM/M
DSTA	DIT-E Transversal Standoff	0 IN
DXE1	Deep Quad 10 kHz Sonde Error Correction	103.078 MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	66.4513 MM/M
DXE4	Deep Quad 40 kHz Sonde Error Correction	49.4736 MM/M
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCSE	Generalized Caliper Selection	BS
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
HSCO	Hole Size Correction Option	YES
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 Correction 1	1	
IDWWC2	IDW Wheel Correction 2	1	
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	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MGF1	Medium 10 kHz Gain Factor	1	
MGF2	Medium 20 kHz Gain Factor	1	
MGF4	Medium 40 kHz Gain Factor	1	
MPH1	Medium 10 kHz Phase Shift	0	DEG
MPH2	Medium 20 kHz Phase Shift	0	DEG
MPH4	Medium 40 kHz Phase Shift	0	DEG
MRE1	Medium Real 10 kHz Sonde Error Correction	51.8723	MM/M
MRE2	Medium Real 20 kHz Sonde Error Correction	11.6535	MM/M
MRE4	Medium Real 40 kHz Sonde Error Correction	1.84624	MM/M
MSR1	Medium Sigma Reference (10 kHz)	13520	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MSR4	Medium Sigma Reference (40 kHz)	685	MM/M
MST	Mud Sample Temperature	-50000.00	DEGC
MWCO	Mud Weight Correction Option	NO	
MXE1	Medium Quad 10 kHz Sonde Error Correction	211.774	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	119.446	MM/M
MXE4	Medium Quad 40 kHz Sonde Error Correction	86.3989	MM/M
PBVSADP	Use alternate depth channel for playback	NO	
PTCO	Pressure/Temperature Correction Option	NO	
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	FT
RULS	Rig Up Length at Surface	0	FT
RW	Resistivity of Connate Water	1.0000	OHMM
SBR	Shoulder Bed Resistivity Factor	1	OHMM
SCORR	Stretch Correction	-50000	FT
SDAT	Standoff Data Source	SOCN	
SFCR	SFL Channel Ratio	1000	
SFLE	SFL Enable	ENABLE	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
SPAE	DIT-E SPARC Processing Enable	ENABLE	
SPNV	SP Next Value	0	MV
STDLC	Subsequent Trip Down Log Correction	-50000	FT
TD	Total Depth	6691.9	FT
TDD	Total Depth - Driller	-50000.00	M
TDL	Total Depth - Logger	-50000.00	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_STGC	Tool Centered/Eccentered	Eccentered	
TWS	Temperature of Connate Water Sample	37.78	DEGC
ZRCS	Tool Zero Reference Check at Surface	-50000	FT

Format: DITE_LinPhasor Vertical Scale: 1:200 Graphics File Created: 21-Dec-2000 04:49

OP System Version: 9C1-303
MCM

DIT-E	OP91-kp2	DTA-A	OP91-kp2
HTGC-B	OP91-kp2		

Output DLIS Files

DEFAULT	DITE .008	FN:12	PRODUCER	21-Dec-2000 04:49
LAMONT	DITE .008	FN:13	PRODUCER	21-Dec-2000 04:49

Calibration and Check Summary

Measurement	Nominal	Master	Refer	After	Change	Limit	Units
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Measurement	Nominal	Master	Before	After	Change	Limit	Units
HPHT Telemetry Gamma-ray Cartridge - B Wellsite Calibration - Detector Calibration							
Before: Calibration out of date 20-NOV-2000 3:46							
Gamma Ray (Jig - Bkg)	147.6	N/A	147.6	N/A	N/A	13.42	GAPI
Gamma Ray (Calibrated)	160.1	N/A	160.1	N/A	N/A	15.00	GAPI

Dual Induction - E / Equipment Identification

Primary Equipment:		
Dual Induction Sonde	DIS - HB	433
Dual Induction Cartridge	DIC - EB	398
Auxiliary Equipment:		
Mass Isolated Housing	MIH - ZA	390

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			64.88	Before		0.9580	Before			10.59	
	-270.2 (Minimum)	29.79 (Nominal)	329.8 (Maximum)		0.8003 (Minimum)	0.9503 (Nominal)	1.130 (Maximum)		0.6755 (Minimum)	10.68 (Nominal)	20.68 (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			17.72	Before		0.9316	Before			12.45	
	-264.5 (Minimum)	35.50 (Nominal)	335.5 (Maximum)		0.7988 (Minimum)	0.9488 (Nominal)	1.128 (Maximum)		2.570 (Minimum)	12.57 (Nominal)	22.57 (Maximum)
Phase	IM Elect Real Offset 10 kHz	MM/M	Value	Phase	IM Elect Real Gain 10 kHz	Value					
Before			46.52	Before		1.131					
	-496.5 (Minimum)	53.51 (Nominal)	603.5 (Maximum)		0.9623 (Minimum)	1.112 (Nominal)					1.359 (Maximum)
Phase	IM Elect Quad Offset 10 kHz	MM/M	Value	Phase	IM Elect Quad Gain 10 kHz	Value					
Before			45.73	Before		1.131					
	-504.3 (Minimum)	45.70 (Nominal)	595.7 (Maximum)		0.9611 (Minimum)	1.111 (Nominal)	1.357 (Maximum)				

Before: 28-OCT-2000 3:22

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			26.55	Before		0.9662	Before			9.254	
	-113.6 (Minimum)	11.45 (Nominal)	136.4 (Maximum)		0.8053 (Minimum)	0.9553 (Nominal)	1.137 (Maximum)		-5.594 (Minimum)	9.406 (Nominal)	24.41 (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			7.831	Before		0.9391	Before			9.736	
	-111.0 (Minimum)	14.04 (Nominal)	139.0 (Maximum)		0.8036 (Minimum)	0.9536 (Nominal)	1.134 (Maximum)		-5.157 (Minimum)	9.843 (Nominal)	24.84 (Maximum)
Phase	IM Elect Real Offset 20 kHz	MM/M	Value	Phase	IM Elect Real Gain 20 kHz	Value					
Before			21.40	Before		1.182					
	-203.2 (Minimum)	21.79 (Nominal)	246.8 (Maximum)		1.001 (Minimum)	1.151 (Nominal)					1.412 (Maximum)
Phase	IM Elect Quad Offset 20 kHz	MM/M	Value	Phase	IM Elect Quad Gain 20 kHz	Value					
Before			20.86	Before		1.182					
	-206.3 (Minimum)	18.74 (Nominal)	243.7 (Maximum)		0.9993 (Minimum)	1.149 (Nominal)	1.411 (Maximum)				

Before: 21-DEC-2000 3:32

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			16.63	Before		0.9385	Before			25.54	
	-77.55 (Minimum)	7.453 (Nominal)	92.45 (Maximum)		0.7913 (Minimum)	0.9413 (Nominal)	1.117 (Maximum)		8.305 (Minimum)	28.30 (Nominal)	48.30 (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			4.482	Before		0.9115	Before			23.48	

-75.75 (Minimum) 9.250 (Nominal) 94.25 (Maximum)			0.7887 (Minimum) 0.9387 (Nominal) 1.114 (Maximum)			6.129 (Minimum) 26.13 (Nominal) 46.13 (Maximum)		
Phase	IM Elect Real Offset 40 kHz MM/M	Value	Phase	IM Elect Real Gain 40 kHz	Value			
Before		11.99	Before		1.159			
-116.0 (Minimum) 13.98 (Nominal) 144.0 (Maximum)			0.9943 (Minimum) 1.144 (Nominal) 1.404 (Maximum)					
Phase	IM Elect Quad Offset 40 kHz MM/M	Value	Phase	IM Elect Quad Gain 40 kHz	Value			
Before		11.95	Before		1.160			
-117.9 (Minimum) 12.05 (Nominal) 142.1 (Maximum)			0.9929 (Minimum) 1.143 (Nominal) 1.402 (Maximum)					

Before: 28-OCT-2000 3:25

Dual Induction - E Wellsite Calibration					
SFL Electronics					
Phase	SFL Voltage Offset MV	Value	Phase	SFL Voltage Gain	Value
Before		0.1317	Before		0.9855
-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		0.08772	Before		1.003
-0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)		

Before: 21-DEC-2000 3:32

Dual Induction - E Wellsite Calibration										
Electronics Calibration Changes										
Files/Depth Intervals: 4: 1106.0 - 1214.9 5: 1256.7 - 1859.0 7: 2010.0 - 1821.2 8: 1914.8 - 1614.1 10: 2010.0 - 1821.2 11: 2010.0 - 1821.2										
Phase	ID (R > 27 OHM-M) MM/M	Value	Phase	ID (R < 27 OHM-M) %	Value	Phase	SFL (R < 1 OHM-M) OHMM	Value		
After		0	After		0.0001702	After		0.0002263		
0 (Minimum) 0 (Nominal) 0.7500 (Maximum)			0 (Minimum) 0 (Nominal) 2.000 (Maximum)			0 (Minimum) 0 (Nominal) 0.02000 (Maximum)				
Phase	IM (R > 27 OHM-M) MM/M	Value	Phase	IM (R < 27 OHM-M) %	Value					
After		0.02915	After		0.0001727					
0 (Minimum) 0 (Nominal) 0.7500 (Maximum)			0 (Minimum) 0 (Nominal) 2.000 (Maximum)							
Phase	SFL (R > 27 OHM-M) MM/M	Value	Phase	SFL (R < 27 OHM-M) %	Value					
After		0	After		0.0005140					
0 (Minimum) 0 (Nominal) 0.7500 (Maximum)			0 (Minimum) 0 (Nominal) 2.000 (Maximum)							

After: 21-DEC-2000 5:57

Dual Induction - E Master Calibration								
Test Loop Calibration: Calibration of Internal Reference to Test Loop Standard								
Phase	Deep 10 kHz Gain Factor	Value	Phase	Deep 20 kHz Gain Factor	Value	Phase	Deep 40 kHz Gain Factor	Value
Master		1.025	Master		1.038	Master		1.047
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	Medium 10 kHz Gain Factor	Value	Phase	Medium 20 kHz Gain Factor	Value	Phase	Medium 40 kHz Gain Factor	Value
Master		1.000	Master		1.000	Master		1.000
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	Phase	Deep 20 kHz Phase Shift	Value	Phase	Deep 40 kHz Phase Shift	Value
Master		0.3378	Master		0.02880	Master		-1.179
-1.500 (Minimum) 0 (Nominal) 1.500 (Maximum)			-2.000 (Minimum) 0 (Nominal) 2.000 (Maximum)			-4.000 (Minimum) -1.000 (Nominal) 2.000 (Maximum)		
Phase	Medium 10 kHz Phase Shift	Value	Phase	Medium 20 kHz Phase Shift	Value	Phase	Medium 40 kHz Phase Shift	Value
Master		0	Master		0	Master		0
-1.500 (Minimum) 0 (Nominal) 1.500 (Maximum)			-3.000 (Minimum) -1.000 (Nominal) 1.000 (Maximum)			-5.000 (Minimum) -2.000 (Nominal) 1.000 (Maximum)		

Master: Calibration out of date 11-JUN-1999 19:36

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	Phase	Real Deep 20 kHz S.E. Corr.	Value	Phase	Real Deep 40 kHz S.E. Corr.	Value
Master		36.29	Master		12.41	Master		1.380

-50.00 (Minimum) 0 (Nominal) 125.0 (Maximum)			-30.00 (Minimum) 0 (Nominal) 30.00 (Maximum)			-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)		
Phase	Quad Deep 10 kHz S.E. Corr.	Value	Phase	Quad Deep 20 kHz S.E. Corr.	Value	Phase	Quad Deep 40 kHz S.E. Corr.	Value
Master		103.1	Master		66.45	Master		49.47
-250.0 (Minimum) 0 (Nominal) 350.0 (Maximum)			-125.0 (Minimum) 0 (Nominal) 200.0 (Maximum)			-75.00 (Minimum) 0 (Nominal) 125.0 (Maximum)		
Phase	Real Medium 10 kHz S.E. Corr.	Value	Phase	Real Medium 20 kHz S.E. Corr.	Value	Phase	Real Medium 40 kHz S.E. Corr.	Value
Master		51.87	Master		11.65	Master		1.846
-50.00 (Minimum) 0 (Nominal) 140.0 (Maximum)			-50.00 (Minimum) 0 (Nominal) 50.00 (Maximum)			-30.00 (Minimum) 0 (Nominal) 30.00 (Maximum)		
Phase	Quad Medium 10 kHz S.E. Corr.	Value	Phase	Quad Medium 20 kHz S.E. Corr.	Value	Phase	Quad Medium 40 kHz S.E. Corr.	Value
Master		211.8	Master		119.4	Master		86.40
-1300 (Minimum) 0 (Nominal) 1300 (Maximum)			-650.0 (Minimum) 0 (Nominal) 650.0 (Maximum)			-350.0 (Minimum) 0 (Nominal) 350.0 (Maximum)		
Master: Calibration out of date 11-JUN-1999 19:58								

HPHT Telemetry Gamma-ray Cartridge - B / Equipment Identification

Primary Equipment:

STGC Gamma-ray & Accelerometer Cartridge	STGC - BH	8038
Mud Temperature Sensor	MTEM -	1
STGC Telemetry Cartridge	STGC - A	8038

Auxiliary Equipment:

HPHT/STGC Dewar Flask Housing	UDFH - KL	1062
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HPHT Telemetry Gamma-ray Cartridge - B Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		6.202	Before		147.6	Before		160.1
0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			134.2 (Minimum) 147.6 (Nominal) 161.0 (Maximum)			145.1 (Minimum) 160.1 (Nominal) 175.1 (Maximum)		
Before: Calibration out of date 20-NOV-2000 3:46								

COMPANY: Lamont Doherty

WELL: ODP Leg 193, Site 1188F (PCM-2A)

FIELD: Manus Basin

COUNTY: Offshore

STATE: Bismarck Sea

BOTTOM LOG INTERVAL	2006 m
SCHLUMBERGER DEPTH	2008 m
DEPTH DRILLER	2039.7 m
KELLY BUSHING	11.3 m
DRILL FLOOR	11 m
GROUND LEVEL	-1653 m

Schlumberger

Phasor Induction
Gamma Ray