

COMPANY: Lamont Doherty

WELL: ODP Leg 194, Site 1194B

FIELD: Marion Plateau

Country: Australia Ocean: Pacific Ocean

Country: Australia  
Field: Marion Plateau  
Location: Rig- Joides Resolution  
Well: ODP Leg 194, Site 1194B  
Company: Lamont Doherty



Phasor Induction-Natural Gamma Ray

LOCATION		Elev.: K.B. 11.3 m G.L. -384.8 m D.F. 11 m	
Rig- Joides Resolution			
Permanent Datum: _____	GROUND LEVEL _____	Elev.: _____	
Log Measured From: _____	DES _____		above Perm. Datum
Drilling Measured From: _____	DES _____		
API Serial No. _____	SECTION _____	TOWNSHIP _____	RANGE _____

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

Logging Date	1-25-01		
Run Number	1		
Depth Driller	812.17 m		
Schlumberger Depth	809 m		
Bottom Log Interval	807 m		
Top Log Interval	376 m		
Casing Driller Size @ Depth	0.000 in	@	463.73 m
Casing Schlumberger	461 m		
Bit Size	9.875 in		
Type Fluid In Hole			
Density	1.1 g/cm3		
Fluid Loss	PH		
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	0200	
Logger On Bottom	Time	See Log	
Unit Number	99	Houston	
Recorded By	Steve Kittredge		
Witnessed By	Heike Delius, Gregor Eberli		

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

**DISCLAIMER**

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

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

REMARKS: RUN NUMBER 1  
 Hole Cored With RCB.  
 WHC used on all runs.  
 Seas calm.  
 Log Measured in Meters Below Rig Floor (MBRF).  
 TD Driller- 812.17 MBRF.  
 Sea Floor Driller- 384.8 MBRF.  
 TD Logger- 809 MBRF.  
 Sea Floor Logger- 385 MBRF.  
 Drill Pipe Logger- 461 MBRF.  
 Drill Pipe Driller- 464 MBRF.  
 Lamont NGT run on pass #2.

REMARKS: RUN NUMBER 2

RUN 1  
 SERVICE ORDER #:  
 PROGRAM VERSION: 9C1-303  
 FLUID LEVEL:

RUN 2  
 SERVICE ORDER #:  
 PROGRAM VERSION:  
 FLUID LEVEL:

LOGGED INTERVAL	START	STOP



LOGGED INTERVAL	START	STOP

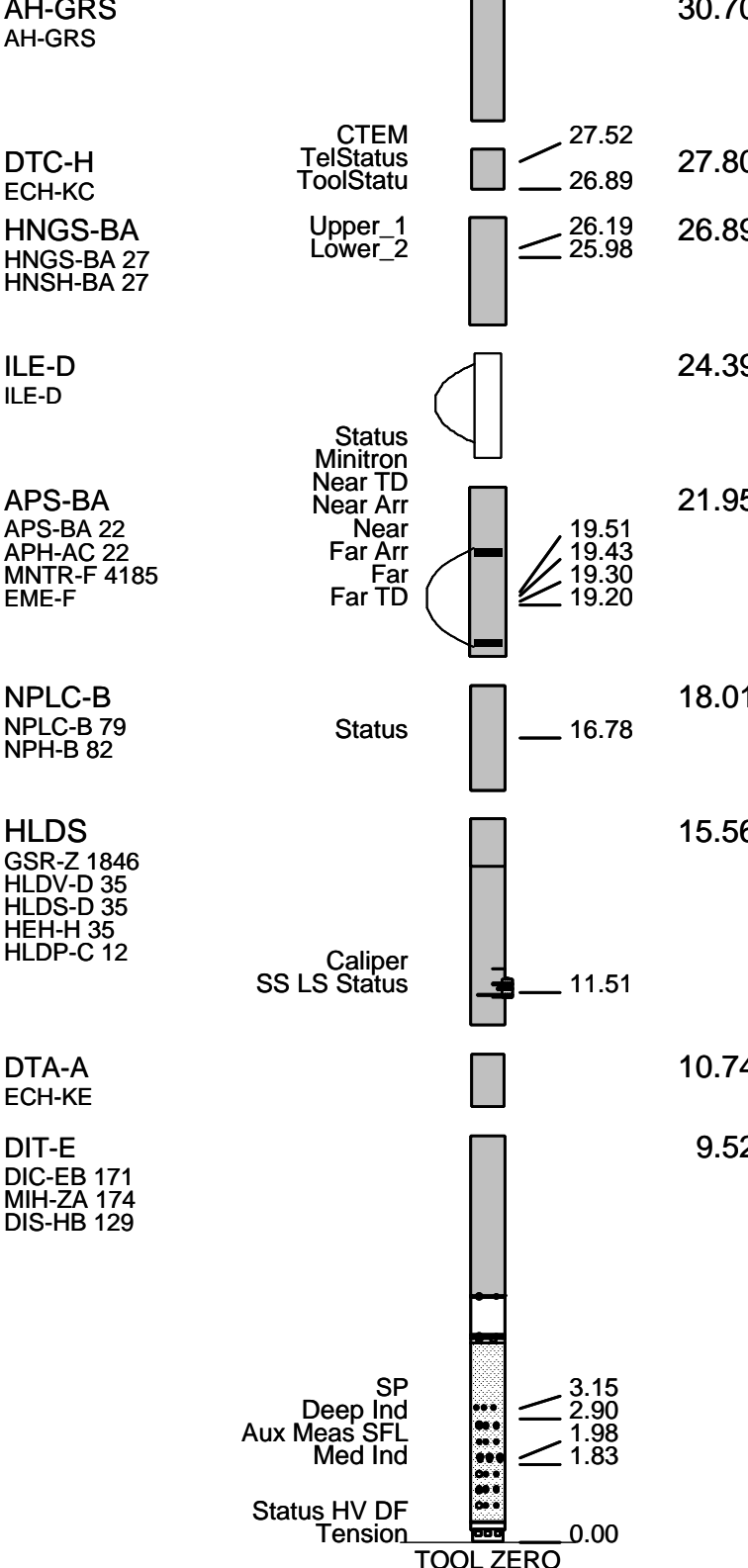
**EQUIPMENT DESCRIPTION**

RUN 1  
**SURFACE EQUIPMENT**  
 SFT-281 24  
 SFT-178 4722  
 GSR-U 135  
 WITM (DTS)-A

RUN 2

**DOWNHOLE EQUIPMENT**

LEH-QT		34.33
LEH-QT		
AH-GRC		33.44
AH-GRC		



TOOL ZERO

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

### Output DLIS Files

DEFAULT	DITE .006	FN:8	PRODUCER	25-Jan-2001 07:48	809.2 M	375.7 M
TCOMBO	DITE .006	FN:9	PRODUCER	25-Jan-2001 07:48	809.2 M	375.7 M

### OP System Version: 9C1-303 MCM

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

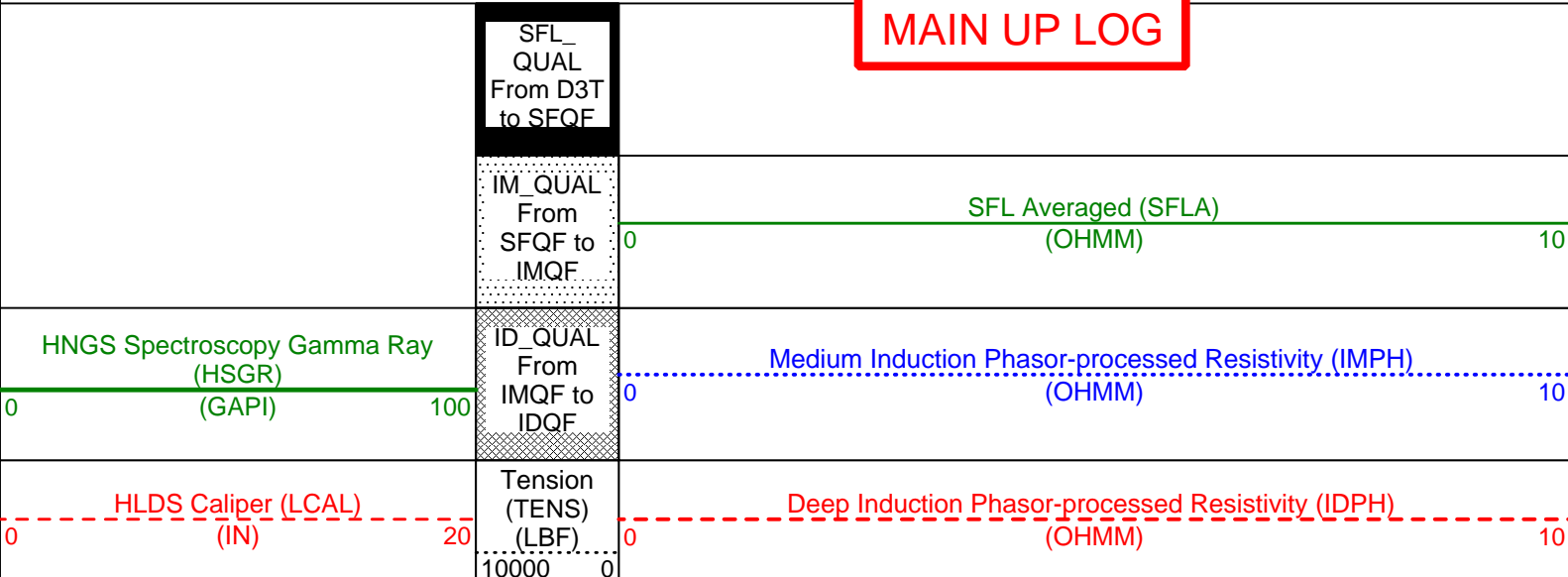
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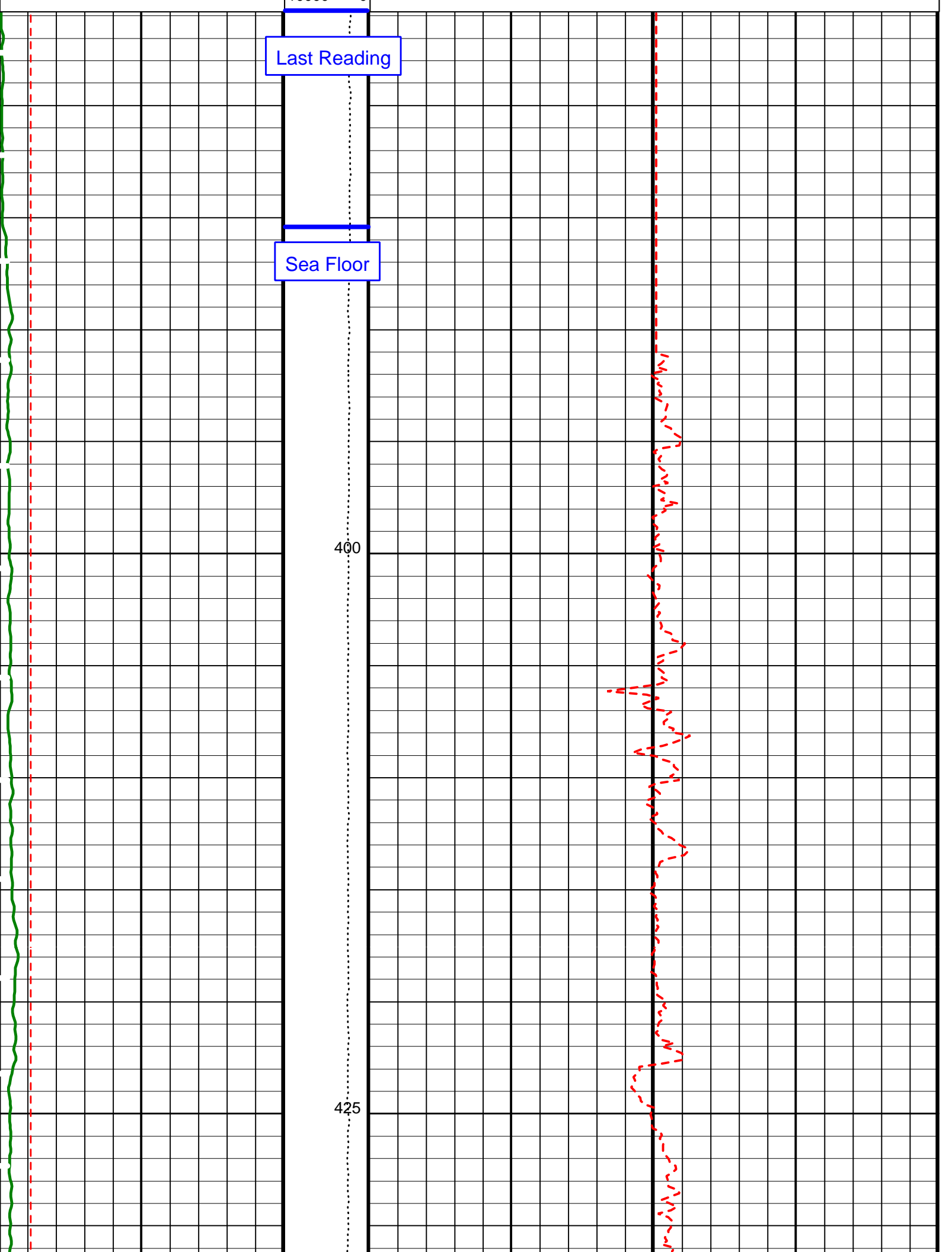
DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	LCAL	495.3 09:02:01

#### PIP SUMMARY

▶ Time Mark Every 60 S

MAIN UP LOG



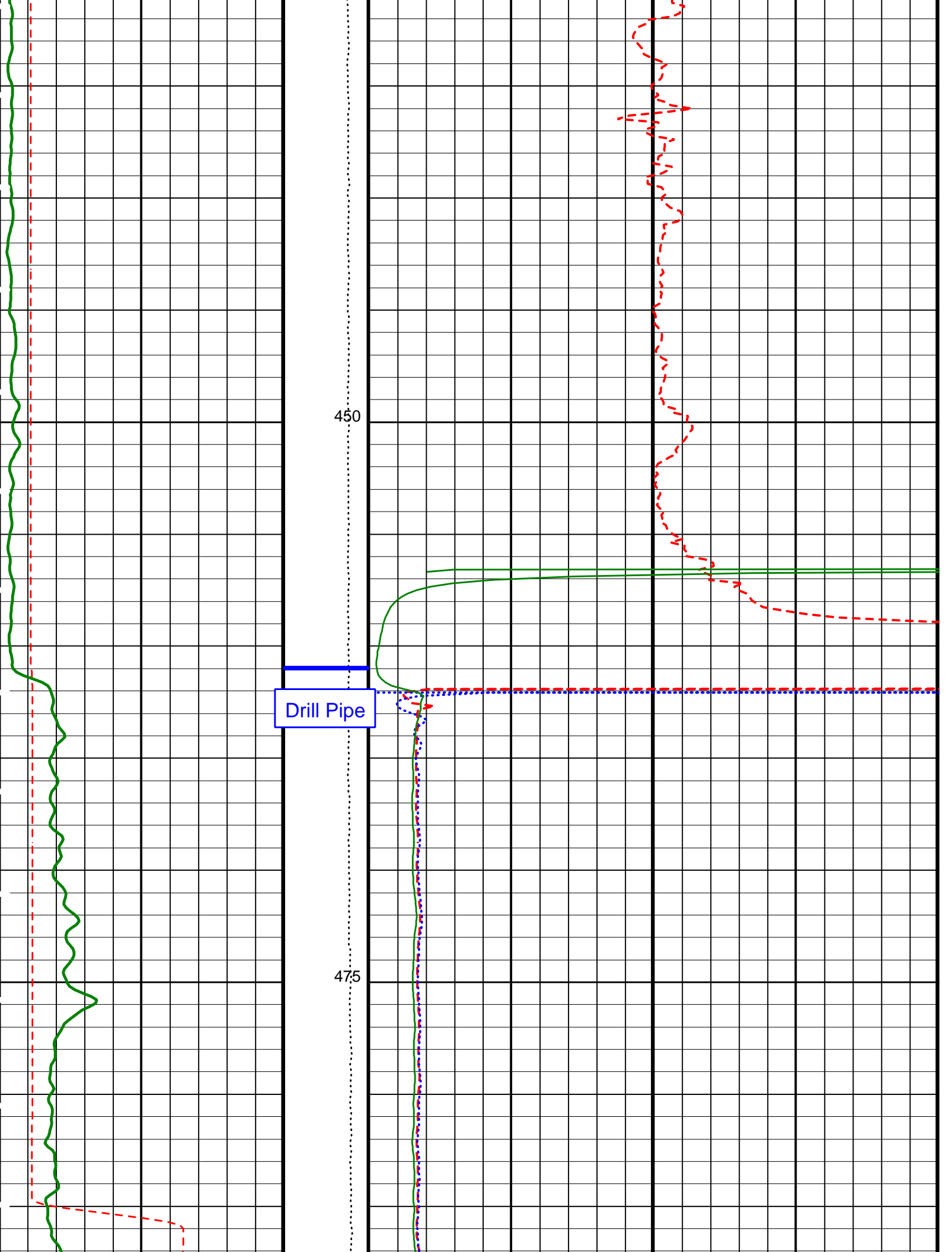


Last Reading

Sea Floor

400

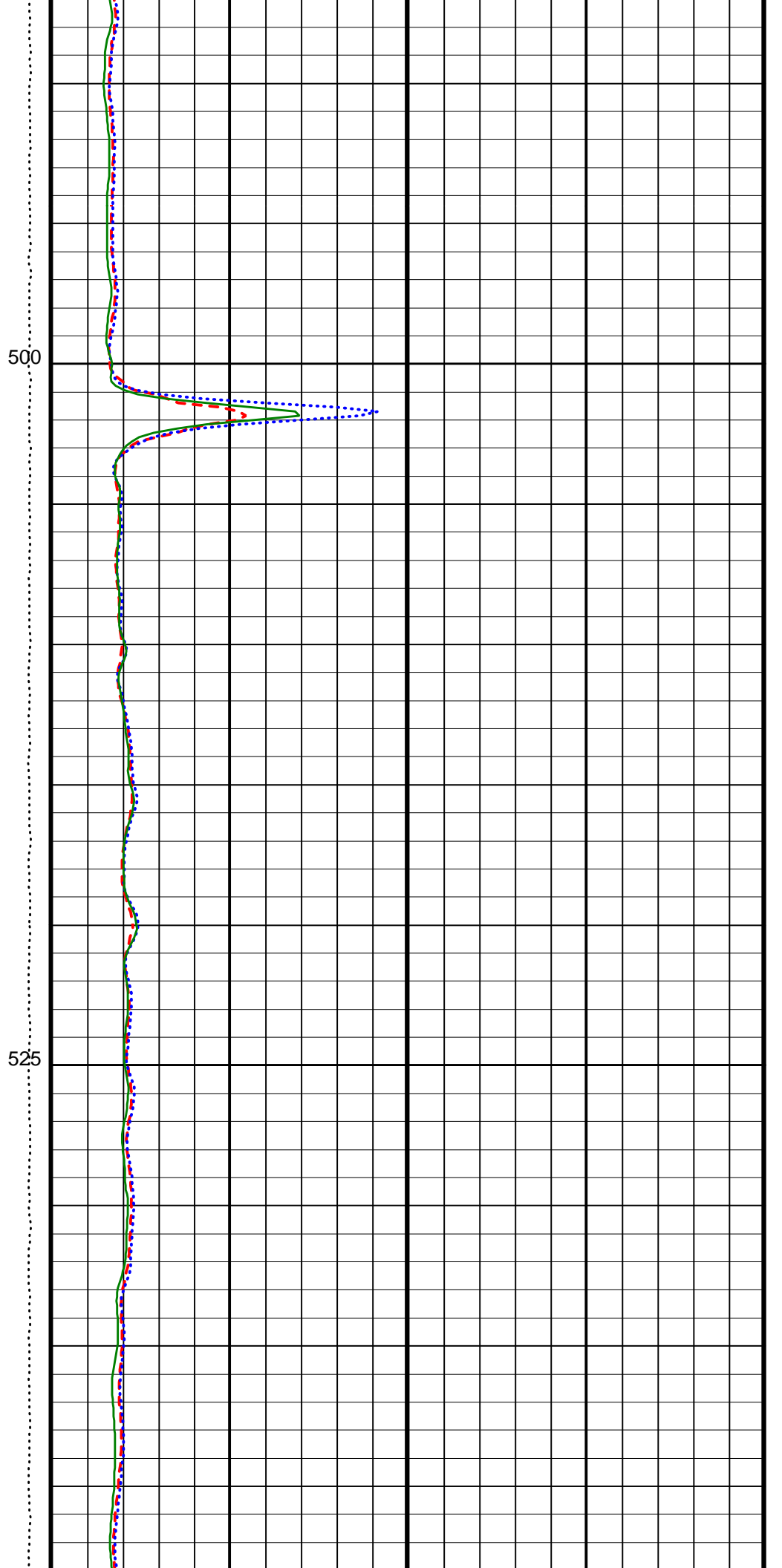
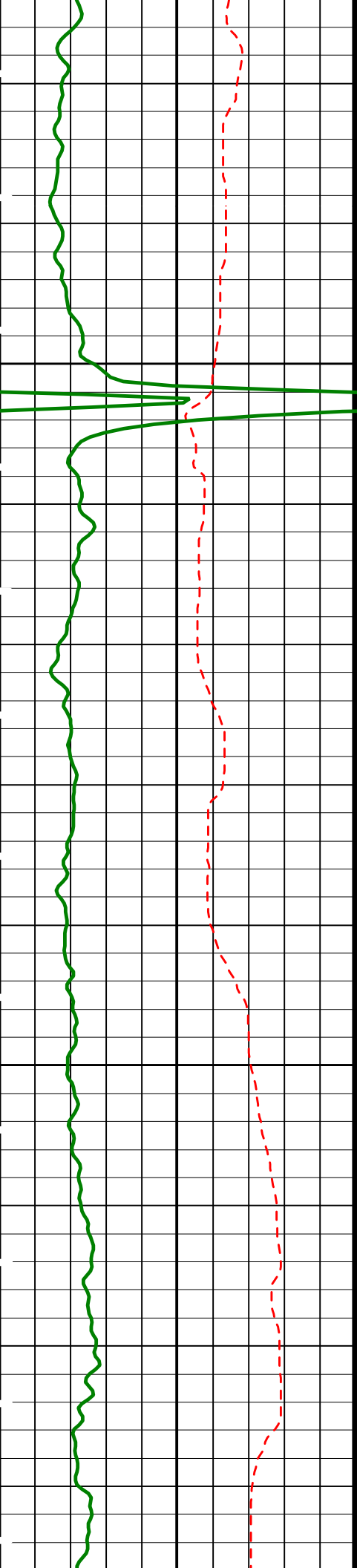
425

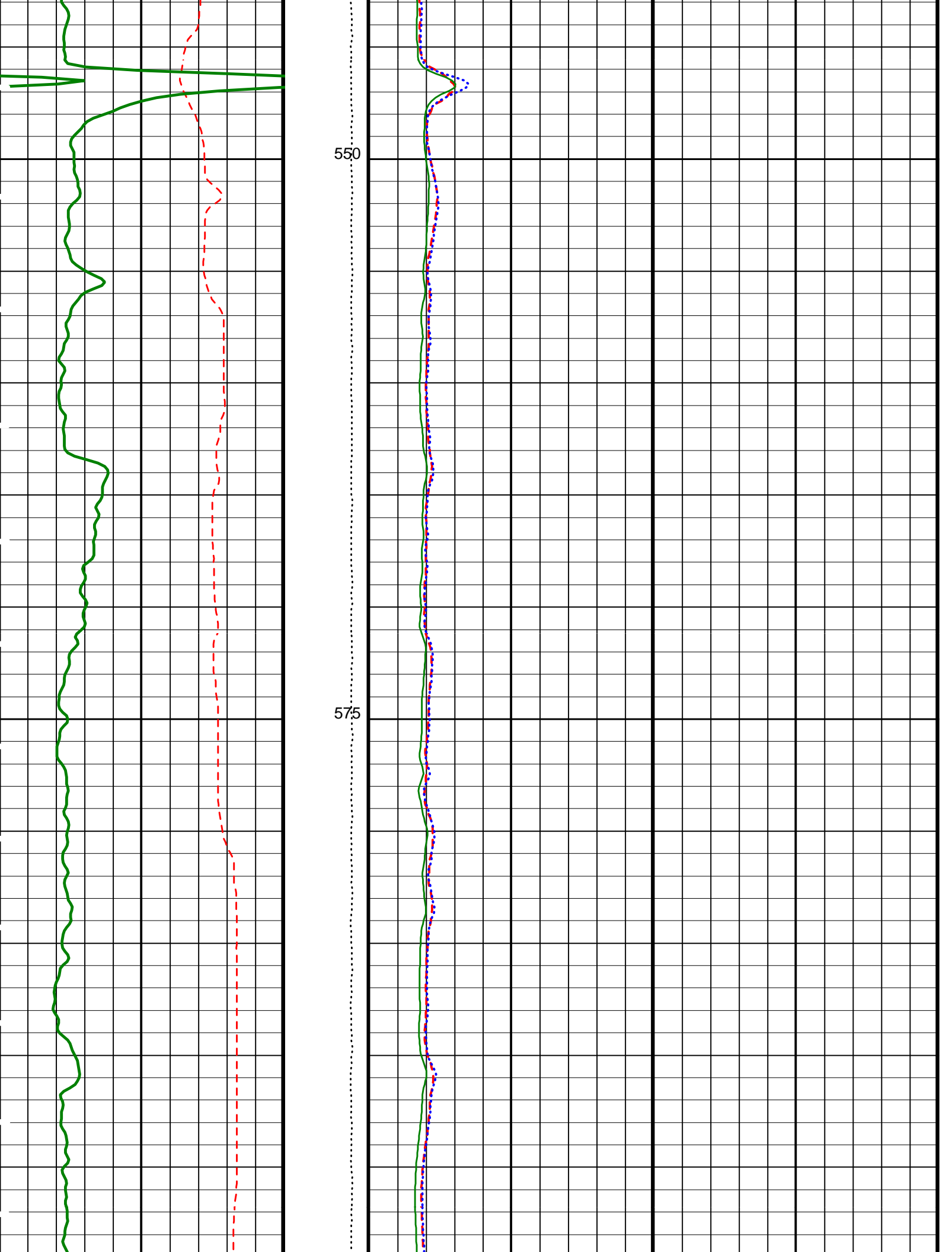


450

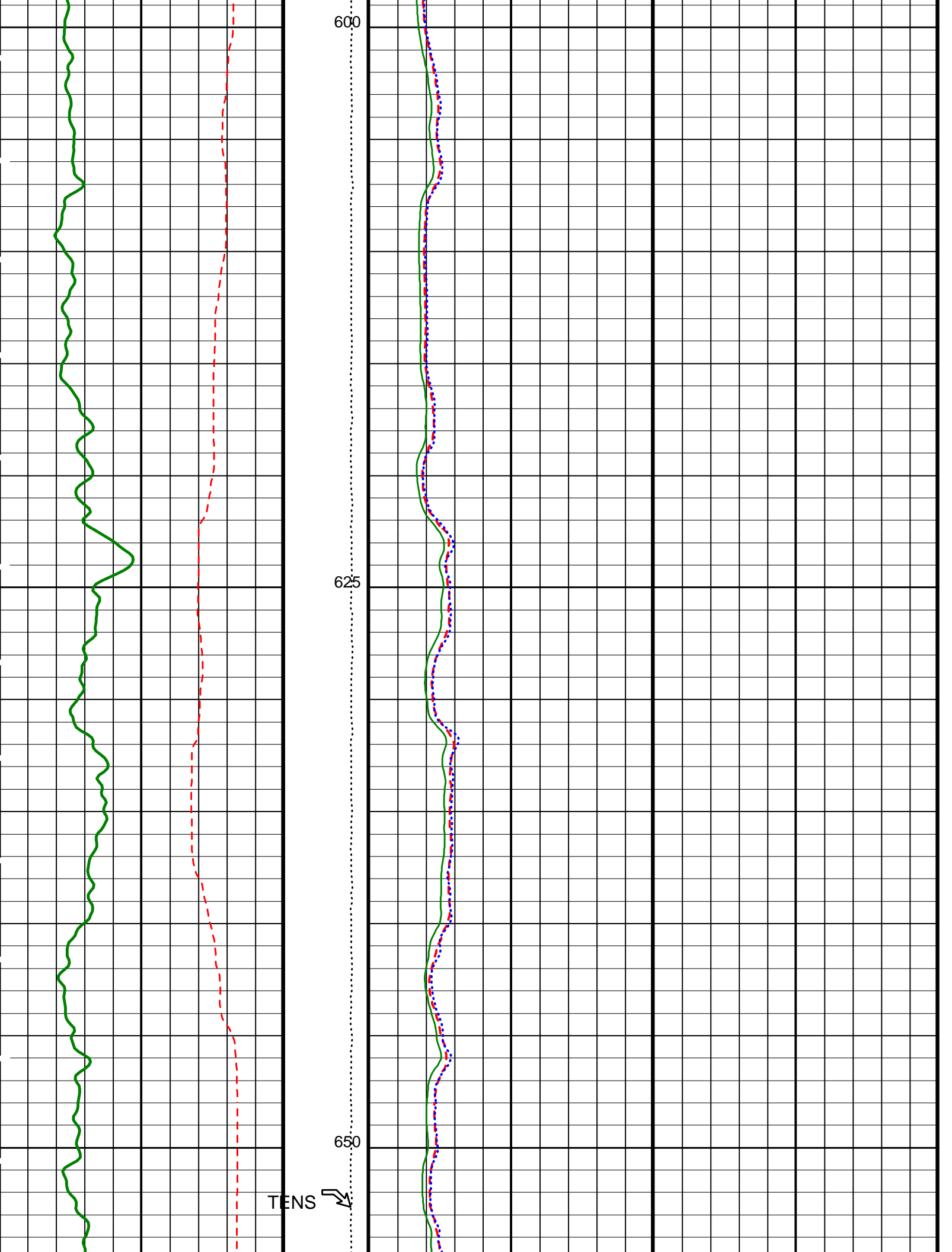
Drill Pipe

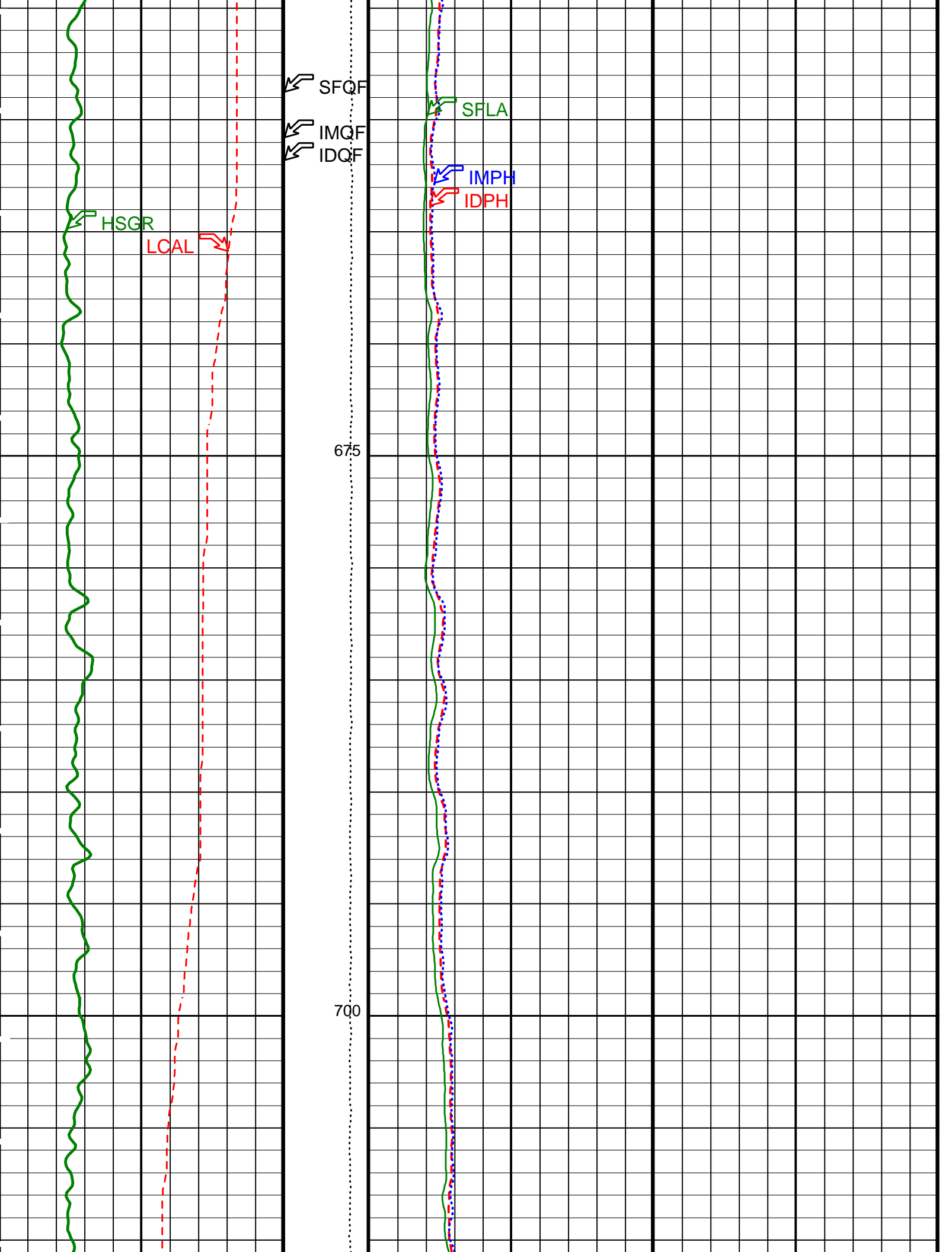
475

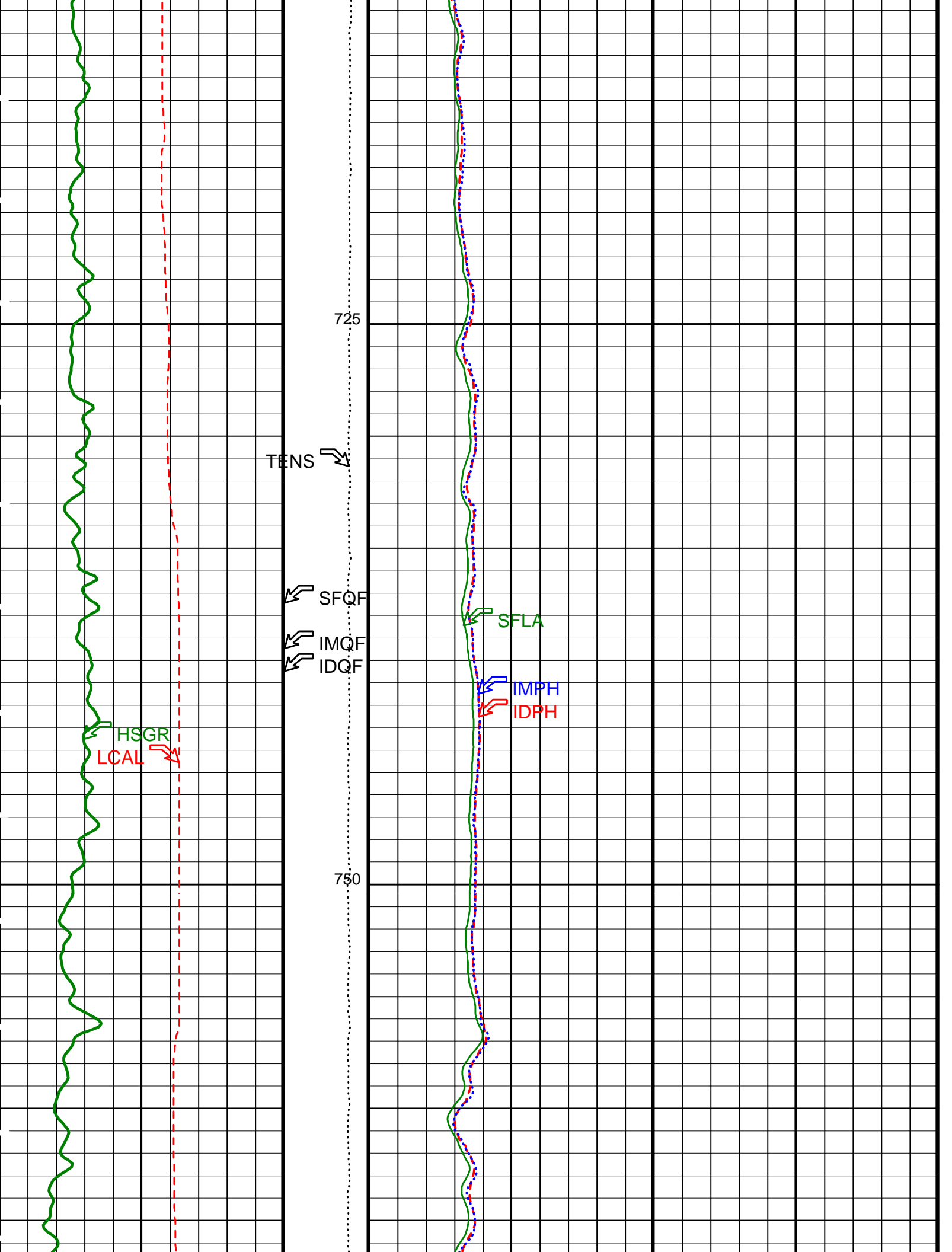


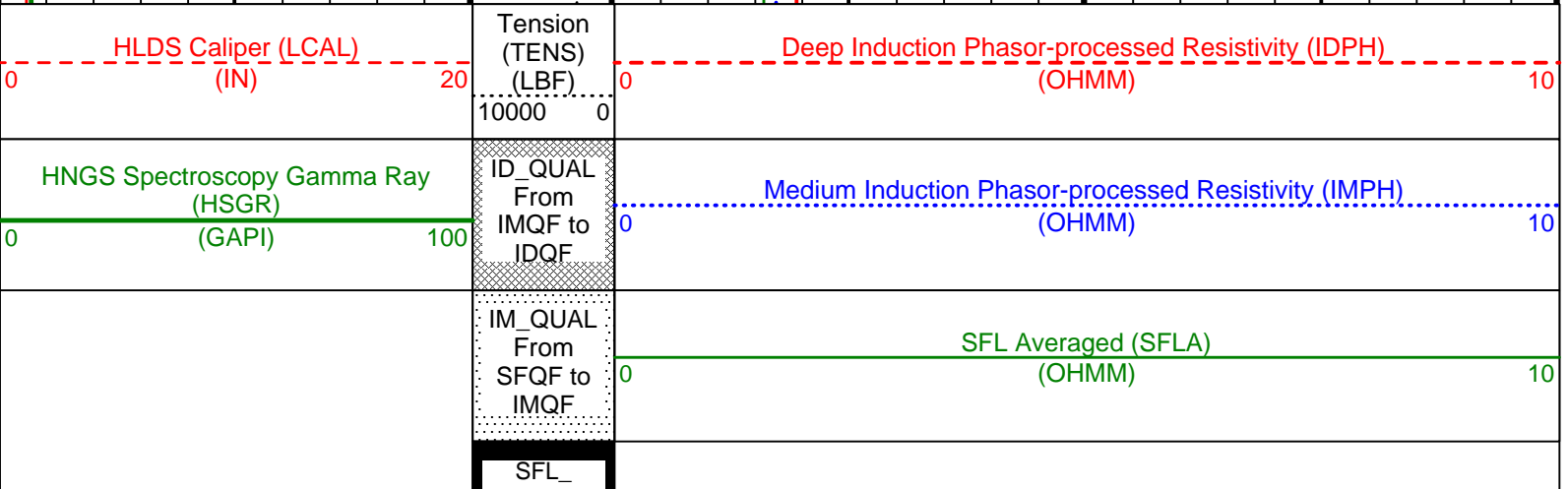
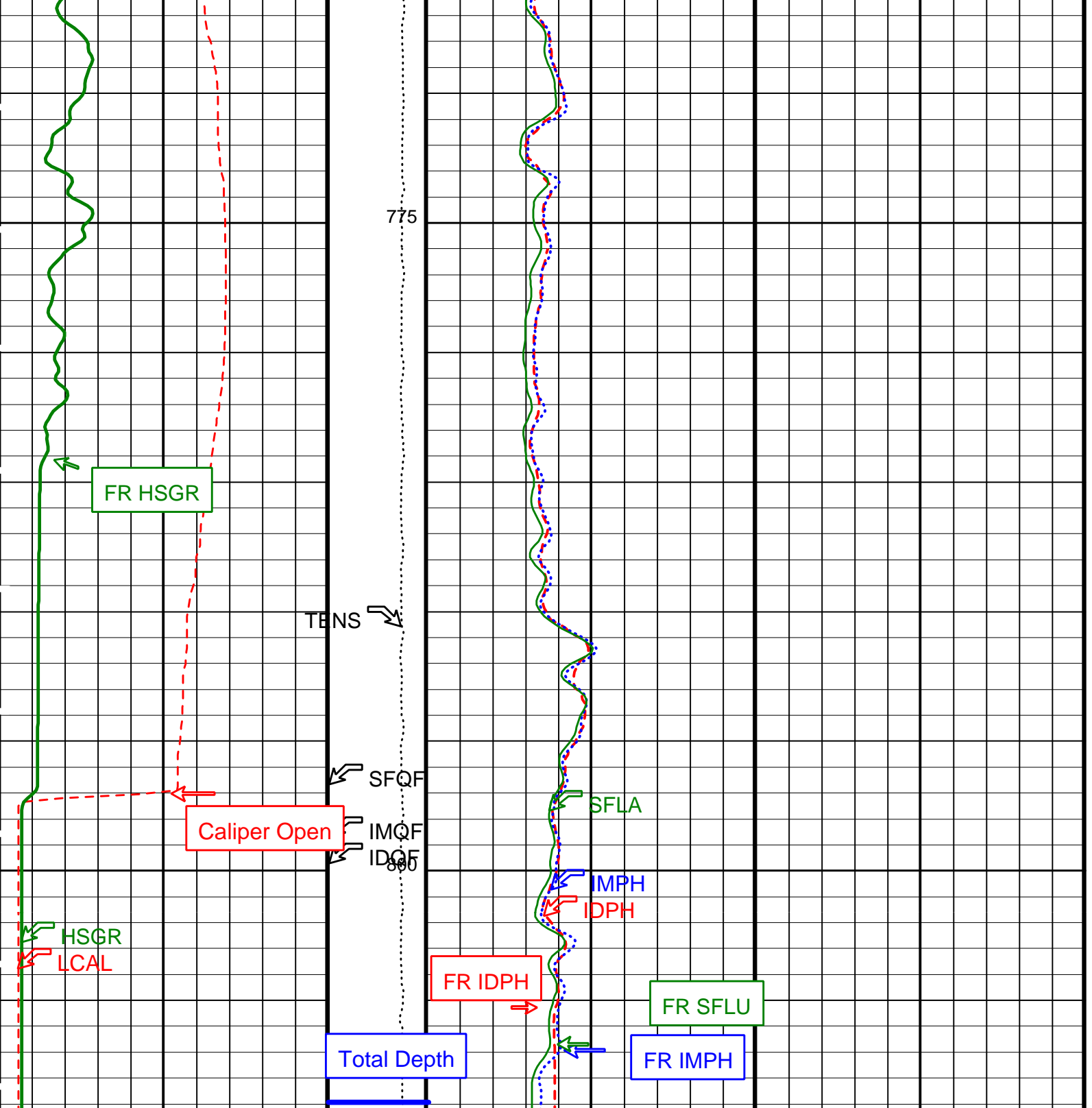












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
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)	12	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
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
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.79616	%
D1TC	HNGS Detector 1 Calibration Temperature	30.594	DEGC
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	211.429	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	6.70686	%
D2TC	HNGS Detector 2 Calibration Temperature	29.6607	DEGC
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	210.041	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.10	G/C3
DGF2	Deep 20 kHz Gain Factor	0.992515	
DPH2	Deep 20 kHz Phase Shift	-0.0620342	DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	17.1426	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	137.206	MM/M
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
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	
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	1.12469e-031	
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	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MGF2	Medium 20 kHz Gain Factor	0.995142	
MPH2	Medium 20 kHz Phase Shift	-0.890816	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	10.896	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	177.452	MM/M
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	22.4203	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.992953	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	22.621	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.985234	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0	
SFCR	SFL Channel Ratio	1000	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
TD	Total Depth	-50000	M
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0	

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

### Output DLIS Files

DEFAULT	DITE .006	FN:8	PRODUCER	25-Jan-2001 07:48
TCOMBO	DITE .006	FN:9	PRODUCER	25-Jan-2001 07:48

#### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
<b>Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement</b>							
Master: 4-JAN-2001 10:08 Before: 11-JAN-2001 4:16 After: 25-JAN-2001 12:27							
SS Total Countrate Bkg	1645	1419	1424	1421	-3.294	80.00	CPS
SS HV Measured Bkg	1100	1065	1064	1067	3.009	80.00	V
SS Cs Centroid Bkg	661.0	661.3	661.4	661.2	-0.2316	1.500	KEV
SS Cs Resolution Bkg	9.000	8.550	8.493	8.527	0.03373	1.800	%
LS Total Countrate Bkg	1645	1450	1444	1448	3.995	80.00	CPS
LS HV Measured Bkg	1100	1183	1185	1186	0.5103	80.00	V
LS Cs Centroid Bkg	661.0	661.2	661.2	661.2	0.01013	1.500	KEV
LS Cs Resolution Bkg	9.000	8.791	8.735	8.808	0.07385	1.800	%
<b>Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration</b>							
Before: 11-JAN-2001 4:23							
HLDS Caliper Small Ring	8.000	N/A	10.34	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.00	N/A	17.75	N/A	N/A	N/A	IN
<b>Accelerator-Porosity Tool Wellsite Calibration - Detector Background</b>							
Master: 23-DEC-2000 23:30 Before: 11-JAN-2001 4:18 After: 25-JAN-2001 12:29							
Near Det Bkg Cntrate	30.00	31.57	32.15	31.80	-0.3504	N/A	CPS
Far Det Bkg Cntrate	30.00	32.42	33.39	33.59	0.2003	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.31	28.68	29.65	0.9676	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.16	30.43	29.55	-0.8842	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.80	32.25	31.48	-0.7692	N/A	CPS
<b>Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios</b>							
Master: 23-DEC-2000 23:31							
Near/Far Calibration Ratio	0.9250	0.8976	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.060	N/A	N/A	N/A	N/A	
<b>Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check</b>							
Master: 4-JAN-2001 11:08 Before: 11-JAN-2001 4:17 After: 25-JAN-2001 12:31							
Na 511 Peak Loc	40.00	40.50	40.70	40.70	-0.004440	1.000	
Na 511 Peak Res	15.50	15.85	16.61	16.71	0.1051	2.000	%
High Voltage	1150	1098	1107	1108	0.7133	30.00	V
Na 1785 Peak Loc	142.6	146.2	146.5	145.3	-1.216	7.000	
Na 1785 Peak Res	8.500	9.591	9.938	10.51	0.5725	2.000	%
Temperature	15.50	30.64	32.47	30.69	-1.778	N/A	DEGC
Na Count Rate	45.00	22.42	22.33	22.01	-0.3289	8.000	CPS
<b>Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check</b>							
Master: 4-JAN-2001 11:08 Before: 11-JAN-2001 4:17 After: 25-JAN-2001 12:31							
Na 511 Peak Loc	40.00	40.56	40.54	40.59	0.04161	1.000	
Na 511 Peak Res	15.50	14.93	15.50	15.88	0.3849	2.000	%
High Voltage	1150	1186	1195	1197	1.698	30.00	V
Na 1785 Peak Loc	142.6	145.0	143.8	145.1	1.346	7.000	
Na 1785 Peak Res	8.500	7.793	9.552	9.069	-0.4830	2.000	%
Temperature	15.50	29.74	31.41	29.88	-1.534	N/A	DEGC
Na Count Rate	45.00	22.62	22.43	22.25	-0.1740	8.000	CPS
<b>Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2</b>							
Master: 4-JAN-2001 11:08 Before: 11-JAN-2001 4:17 After: 25-JAN-2001 12:31							
Coincidence Count Rate Ratio	1.000	0.9911	0.9979	0.9888	-0.009081	0.05000	

#### Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting	1748 V
Far Detector Plateau Setting	2052 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	Phase	ID Elect Real Gain 10 kHz	Value	Phase	ID Elect Phase 10 kHz DEG	Value	
Before			46.34	Before		0.9408	Before		9.192	
	-254.3 (Minimum)	45.73 (Nominal)	345.7 (Maximum)		0.8040 (Minimum)	0.9540 (Nominal)	1.135 (Maximum)	-0.1483 (Minimum)	9.852 (Nominal)	19.85 (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			22.65	Before		0.9307	Before		8.908	
	-277.9 (Minimum)	22.08 (Nominal)	322.1 (Maximum)		0.7954 (Minimum)	0.9454 (Nominal)	1.123 (Maximum)	-0.4531 (Minimum)	9.547 (Nominal)	19.55 (Maximum)
Phase	IM Elect Real Offset 10 kHz	MM/M	Value	Phase	IM Elect Real Gain 10 kHz	Value				
Before			52.92	Before		0.9280				
	-496.5 (Minimum)	53.46 (Nominal)	603.5 (Maximum)		0.7931 (Minimum)	0.9431 (Nominal)	1.120 (Maximum)			
Phase	IM Elect Quad Offset 10 kHz	MM/M	Value	Phase	IM Elect Quad Gain 10 kHz	Value				
Before			35.91	Before		0.9229				
	-513.3 (Minimum)	36.74 (Nominal)	586.7 (Maximum)		0.7886 (Minimum)	0.9386 (Nominal)	1.113 (Maximum)			

Before: 25-JAN-2001 7:38

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			18.51	Before		0.9686	Before		4.603	
	-106.7 (Minimum)	18.33 (Nominal)	143.3 (Maximum)		0.8273 (Minimum)	0.9773 (Nominal)	1.168 (Maximum)	-10.47 (Minimum)	4.529 (Nominal)	19.53 (Maximum)
Phase	ID Elect Quad Offset 20 kHz	MM/M	Value	Phase	ID Elect Quad Gain 20 kHz	Value	Phase	IM Elect Phase 20 kHz DEG	Value	
Before			9.081	Before		0.9580	Before		4.937	
	-116.1 (Minimum)	8.860 (Nominal)	133.9 (Maximum)		0.8183 (Minimum)	0.9683 (Nominal)	1.155 (Maximum)	-10.12 (Minimum)	4.875 (Nominal)	19.88 (Maximum)
Phase	IM Elect Real Offset 20 kHz	MM/M	Value	Phase	IM Elect Real Gain 20 kHz	Value				
Before			21.64	Before		0.9708				
	-203.1 (Minimum)	21.86 (Nominal)	246.9 (Maximum)		0.8290 (Minimum)	0.9790 (Nominal)	1.170 (Maximum)			
Phase	IM Elect Quad Offset 20 kHz	MM/M	Value	Phase	IM Elect Quad Gain 20 kHz	Value				
Before			14.81	Before		0.9653				
	-209.9 (Minimum)	15.08 (Nominal)	240.1 (Maximum)		0.8242 (Minimum)	0.9742 (Nominal)	1.164 (Maximum)			

Before: 25-JAN-2001 7:39

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			12.19	Before		0.9516	Before		16.00	
	-72.91 (Minimum)	12.09 (Nominal)	97.09 (Maximum)		0.8118 (Minimum)	0.9618 (Nominal)	1.146 (Maximum)	-4.840 (Minimum)	15.16 (Nominal)	35.16 (Maximum)
Phase	ID Elect Quad Offset 40 kHz	MM/M	Value	Phase	ID Elect Quad Gain 40 kHz	Value	Phase	IM Elect Phase 40 kHz DEG	Value	
Before			6.025	Before		0.9405	Before		15.76	
	-79.09 (Minimum)	5.907 (Nominal)	90.91 (Maximum)		0.8024 (Minimum)	0.9524 (Nominal)	1.133 (Maximum)	-5.048 (Minimum)	14.95 (Nominal)	34.95 (Maximum)
Phase	IM Elect Real Offset 40 kHz	MM/M	Value	Phase	IM Elect Real Gain 40 kHz	Value				
Before				Before						

Before		13.96	Before		0.9705		
	-115.9 (Minimum)	14.11 (Nominal)	144.1 (Maximum)	0.8280 (Minimum)	0.9780 (Nominal)	1.169 (Maximum)	
Phase	IM Elect Quad Offset 40 kHz MM/M		Value	Phase	IM Elect Quad Gain 40 kHz		Value
Before		9.652	Before		0.9646		
	-120.2 (Minimum)	9.827 (Nominal)	139.8 (Maximum)	0.8229 (Minimum)	0.9729 (Nominal)	1.162 (Maximum)	

Before: 25-JAN-2001 7:40

Dual Induction - E Wellsite Calibration							
SFL Electronics							
Phase	SFL Voltage Offset MV		Value	Phase	SFL Voltage Gain		Value
Before		1.063	Before		1.000		
	-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		0.05131	Before		1.013		
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)	0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)	

Before: 25-JAN-2001 7:41

Dual Induction - E Wellsite Calibration											
Electronics Calibration Changes Files/Depth Intervals: 6: 809.2 - 375.8											
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		0.0001507	After		0.0009797			
	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	After		0.0001179						
	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		0.0006740						
	0 (Minimum)	0 (Nominal)	0.7500 (Maximum)	0 (Minimum)	0 (Nominal)	2.000 (Maximum)					

After: 25-JAN-2001 9:28

### 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	1846

#### Auxiliary Equipment:

Hostile Litho Density Pad	HLDP - C	12
Hostile Litho Density High Voltage Housi	HEH - H	35

Hostile Litho-Density Sonde Wellsite Calibration											
Background Measurement											
Phase	SS Total Countrate Bkg CPS		Value	Phase	SS HV Measured Bkg V		Value	Phase	SS PSC DAC Value Bkg		Value
Master		1419	Master		1065	Master		16520			
Before		1424	Before		1064	Before		16380			
After		1421	After		1067	After		16430			
	1000 (Minimum)	1645 (Nominal)	2290 (Maximum)	800.0 (Minimum)	1100 (Nominal)	1400 (Maximum)	14100 (Minimum)	16000 (Nominal)	20000 (Maximum)		
Phase	SS Cs Centroid Bkg KEV		Value	Phase	SS Cs Resolution Bkg %		Value	Phase	LS Total Countrate Bkg CPS		Value
Master		661.3	Master		8.550	Master		1450			
Before		661.4	Before		8.493	Before		1444			
After		661.2	After		8.527	After		1448			
	656.0 (Minimum)	661.0 (Nominal)	666.0 (Maximum)	7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)	1000 (Minimum)	1645 (Nominal)	2290 (Maximum)		
Phase	LS HV Measured Bkg V		Value	Phase	LS PSC DAC Value Bkg		Value	Phase	LS Cs Centroid Bkg KEV		Value



Master		1183	Master		18100	Master		661.2			
Before		1185	Before		17900	Before		661.2			
After		1186	After		17910	After		661.2			
800.0 (Minimum)		1100 (Nominal)	1400 (Maximum)	14100 (Minimum)		16000 (Nominal)	20000 (Maximum)	656.0 (Minimum)	661.0 (Nominal)	666.0 (Maximum)	
Phase	LS Cs Resolution Bkg %	Value	Phase	LSW1 Background CPS	Value	Phase	LSW2 Background CPS	Value			
Master		8.791	Master		86.24	Master		80.44			
Before		8.735	Before		86.22	Before		80.03			
After		8.808	After		86.35	After		81.59			
7.000 (Minimum)		9.000 (Nominal)	11.000 (Maximum)	55.00 (Minimum)		100.0 (Nominal)	150.0 (Maximum)	50.00 (Minimum)	100.0 (Nominal)	140.0 (Maximum)	
Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value	Phase	LSW5 Background CPS	Value			
Master		181.0	Master		216.8	Master		494.2			
Before		176.5	Before		216.0	Before		496.4			
After		178.0	After		216.1	After		494.4			
110.0 (Minimum)		200.0 (Nominal)	290.0 (Maximum)	140.0 (Minimum)		250.0 (Nominal)	360.0 (Maximum)	330.0 (Minimum)	600.0 (Nominal)	830.0 (Maximum)	
Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value	Phase	SSW3 Background CPS	Value			
Master		86.80	Master		155.9	Master		413.2			
Before		85.29	Before		156.2	Before		414.0			
After		86.98	After		154.4	After		412.1			
55.00 (Minimum)		100.0 (Nominal)	150.0 (Maximum)	100.0 (Minimum)		200.0 (Nominal)	260.0 (Maximum)	280.0 (Minimum)	500.0 (Nominal)	700.0 (Maximum)	
Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value						
Master		220.1	Master		159.6						
Before		222.7	Before		161.2						
After		222.2	After		159.2						
150.0 (Minimum)		270.0 (Nominal)	380.0 (Maximum)	110.0 (Minimum)		200.0 (Nominal)	270.0 (Maximum)				
Master: 4-JAN-2001 10:08			Before: 11-JAN-2001 4:16			After: 25-JAN-2001 12:27					

### 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 Minitron

APS - BA 22  
MNTR - F 4185

Auxiliary Equipment:

Accelerator-Porosity Housing  
APS Calibration Water Tank  
APS Aluminium Calibrator Sleeve

APH - AC 22  
SFT - 178 4722  
SFT - 281 24

### 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		31.57	Master		32.42	Master		28.31			
Before		32.15	Before		33.39	Before		28.68			
After		31.80	After		33.59	After		29.65			
0 (Minimum)		30.00 (Nominal)	50.00 (Maximum)	0 (Minimum)		30.00 (Nominal)	50.00 (Maximum)	0 (Minimum)		30.00 (Nominal)	50.00 (Maximum)

Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value
Master		30.16	Master		32.80
Before		30.43	Before		32.25
After		29.55	After		31.48
0 (Minimum)		30.00 (Nominal)	0 (Minimum)		50.00 (Maximum)

Master: 23-DEC-2000 23:30

Before: 11-JAN-2001 4:18

After: 25-JAN-2001 12:29

Accelerator-Porosity Tool Wellsite Calibration					
Calibration Ratios					
Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value
Master		0.8976	Master		1.060
0.8000 (Minimum)		0.9250 (Nominal)	0.9000 (Minimum)		1.030 (Nominal)
1.050 (Maximum)			1.150 (Maximum)		

Master: 23-DEC-2000 23:31

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	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		40.50	Master		15.85	Master		1098	
Before		40.70	Before		16.61	Before		1107	
After		40.70	After		16.71	After		1108	
37.50 (Minimum)		40.00 (Nominal)	12.00 (Minimum)		15.50 (Nominal)	900.0 (Minimum)		1150 (Nominal)	1600 (Maximum)
42.50 (Maximum)			19.00 (Maximum)						
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		146.2	Master		9.591	Master		30.64	
Before		146.5	Before		9.938	Before		32.47	
After		145.3	After		10.51	After		30.69	
135.0 (Minimum)		142.6 (Nominal)	7.000 (Minimum)		8.500 (Nominal)	-28.89 (Minimum)		15.50 (Nominal)	60.00 (Maximum)
150.3 (Maximum)			11.00 (Maximum)						
Phase	Na Count Rate CPS	Value							
Master		22.42							
Before		22.33							
After		22.01							
15.00 (Minimum)		45.00 (Nominal)							
100.0 (Maximum)									

Master: 4-JAN-2001 11:08

Before: 11-JAN-2001 4:17

After: 25-JAN-2001 12:31

Hostile Natural Gamma Ray Sonde Wellsite Calibration									
Detector 2 Check									
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		40.56	Master		14.93	Master		1186	
Before		40.54	Before		15.50	Before		1195	
After		40.59	After		15.88	After		1197	
37.50 (Minimum)		40.00 (Nominal)	12.00 (Minimum)		15.50 (Nominal)	900.0 (Minimum)		1150 (Nominal)	1600 (Maximum)
42.50 (Maximum)			19.00 (Maximum)						
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		145.0	Master		7.793	Master		29.74	
Before		143.8	Before		9.552	Before		31.41	
After		145.1	After		9.060	After		30.88	
135.0 (Minimum)		142.6 (Nominal)	7.000 (Minimum)		8.500 (Nominal)	-28.89 (Minimum)		15.50 (Nominal)	60.00 (Maximum)
150.3 (Maximum)			11.00 (Maximum)						

Phase	Na Count Rate CPS	Value
Master		22.62
Before		22.43
After		22.25

Master: 4-JAN-2001 11:08      Before: 11-JAN-2001 4:17      After: 25-JAN-2001 12:31

Phase	Coincidence Count Rate Ratio	Value
Master		0.9911
Before		0.9979
After		0.9888

Master: 4-JAN-2001 11:08  
Before: 11-JAN-2001 4:17  
After: 25-JAN-2001 12:31

<b>COMPANY:</b> Lamont Doherty  <b>WELL:</b> ODP Leg 194, Site 1194B <b>FIELD:</b> Marion Plateau <b>Country:</b> Australia <b>Ocean:</b> Pacific Ocean	<b>BOTTOM LOG INTERVAL</b>	807 m
	<b>SCHLUMBERGER DEPTH</b>	809 m
	<b>DEPTH DRILLER</b>	812.17 m
	<b>KELLY BUSHING</b>	11.3 m
	<b>DRILL FLOOR</b>	11 m
	<b>GROUND LEVEL</b>	-384.8 m

**Schlumberger**

Phasor Induction-Natural Gamma Ray