

COMPANY: Lamont Doherty

WELL: ODP Leg 194, Site 1196A

FIELD: Marion Plateau

Country: Australia Ocean: Pacific Ocean



Phasor Induction/Natural GR

Country: Australia
Field: Marion Plateau
Location: Rig- Joides Resolution
Well: ODP Leg 194, Site 1196A
Company: Lamont Doherty

LOCATION		GROUND LEVEL		Elev.:	
Rig- Joides Resolution		K.B.	11.3 m	G.L.	-315.2 m
Permanent Datum:	DES	D.F. 11 m			
Log Measured From:	DES	above Perm. Datum			
Drilling Measured From:	DES				
API Serial No.	SECTION	TOWNSHIP	RANGE		

Logging Date	2/3/01			
Run Number	1			
Depth Driller	987.4 m			
Schlumberger Depth	821 m			
Bottom Log Interval	819 m			
Top Log Interval	307 m			
Casing Driller Size @ Depth	0.000 in	@	387 m	@
Casing Schlumberger	386 m			
Bit Size	9.875 in			
Type Fluid In Hole	SEPIOLITE			
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	2/3/01	0700	
Logger On Bottom	Time	2/3/01	See Log	
Unit Number	99	Houston		
Recorded By	Steve Kittredge			
Witnessed By	Heike Deltius, Gregor Eberli			

	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			
Density			
Fluid Loss			
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			
Recorded By			
Witnessed By			

DISCLAIMER
 THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1
 OS1: MESTB/LSS
 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.
 Sepiolite mud.
 Log Measured in Meters Below Rig Floor (MBRF).
 Sea Floor Driller- 315.2 MBRF
 Sea Floor Logger- 314 MBRF.
 Total Depth Driller- 987.4 MBRF.
 Total Depth Logger- 821 MBRF.
 Lamont MGT tool was not run.
 Drill Pipe Driller- 387 MBRF.
 Drill Pipe Logger- 386 MBRF.
 High vibrations in drill pipe due to currents.

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

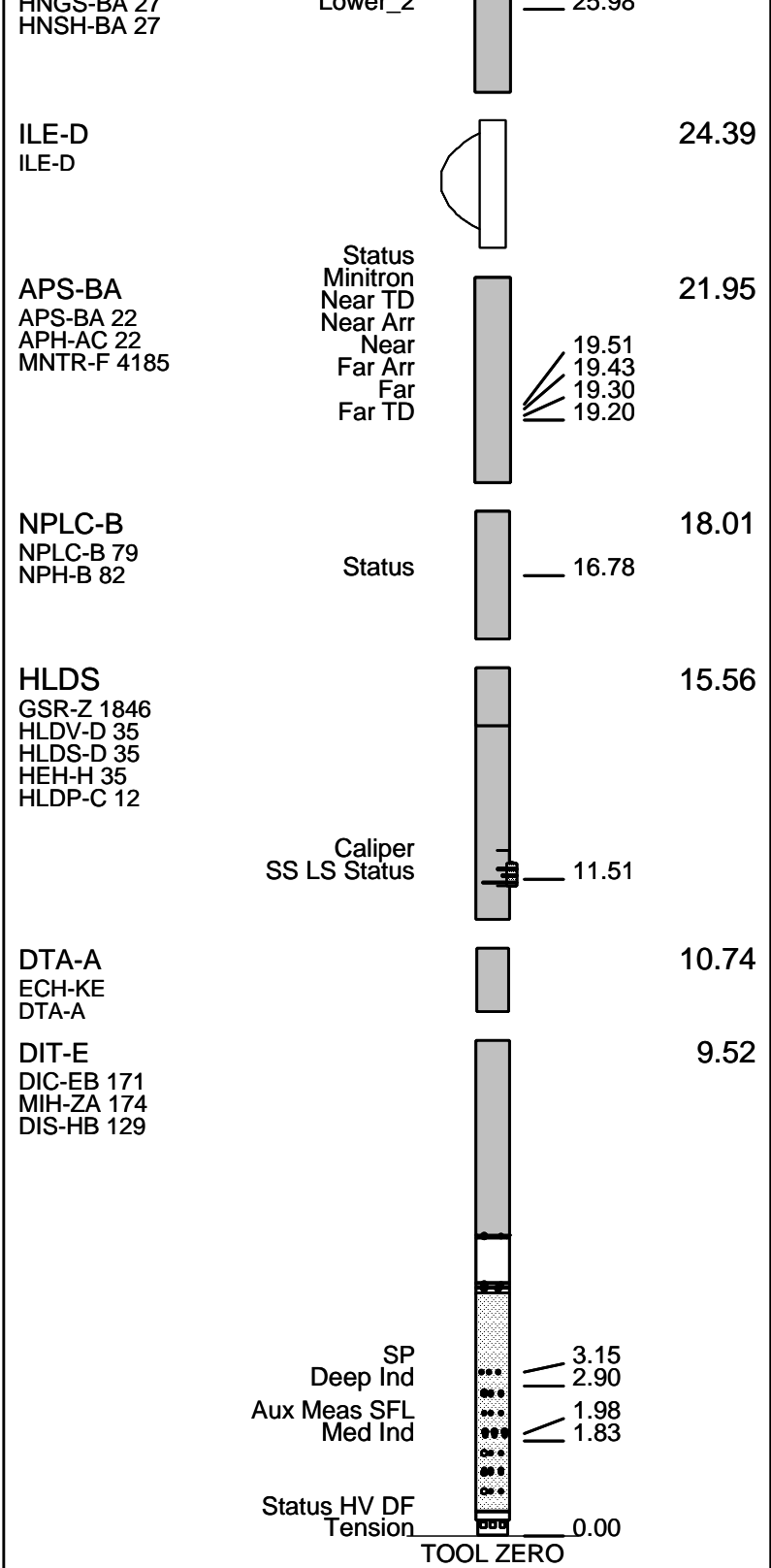
SURFACE EQUIPMENT

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

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT  28.69
 LEH-QT
 DTC-H CTEM  27.52
 ECH-KC TelStatus  26.89
 ToolStatu
 HNGS-BA Upper_1  26.19
 HNGS BA 27 Lower_2  25.08



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

Output DLIS Files

DEFAULT	DITE .005	FN:6	PRODUCER	03-Feb-2001 12:48	818.4 M	307.8 M
TCOMBO_CUST	DITE .005	FN:7	PRODUCER	03-Feb-2001 12:48	818.4 M	307.4 M
DEFAULTC	DITE .005	FN:8	PRODUCER	03-Feb-2001 12:48	818.4 M	307.4 M

OP System Version: 9C1-303
MCM

MAIN UP LOG

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		

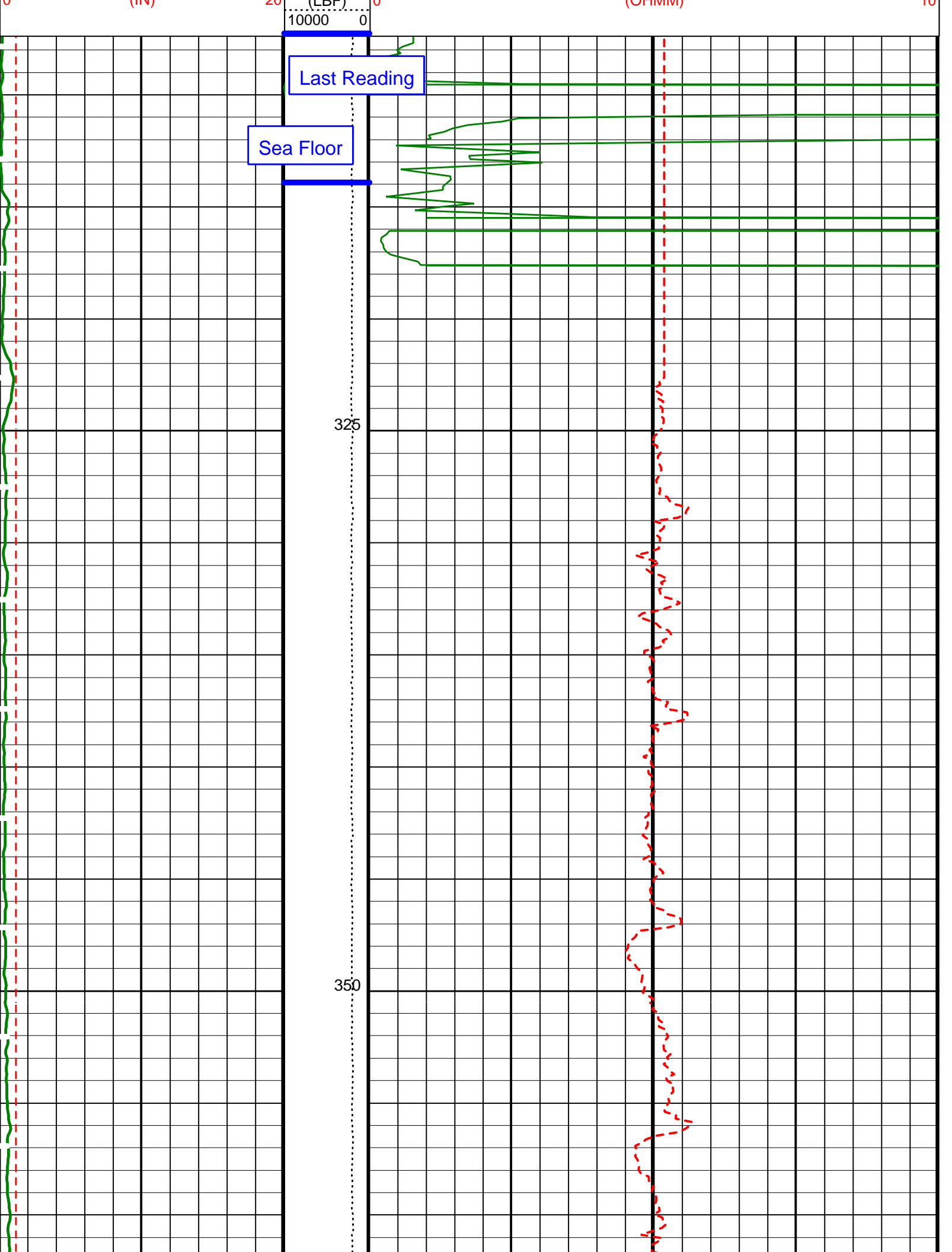
Changed Parameter Summary

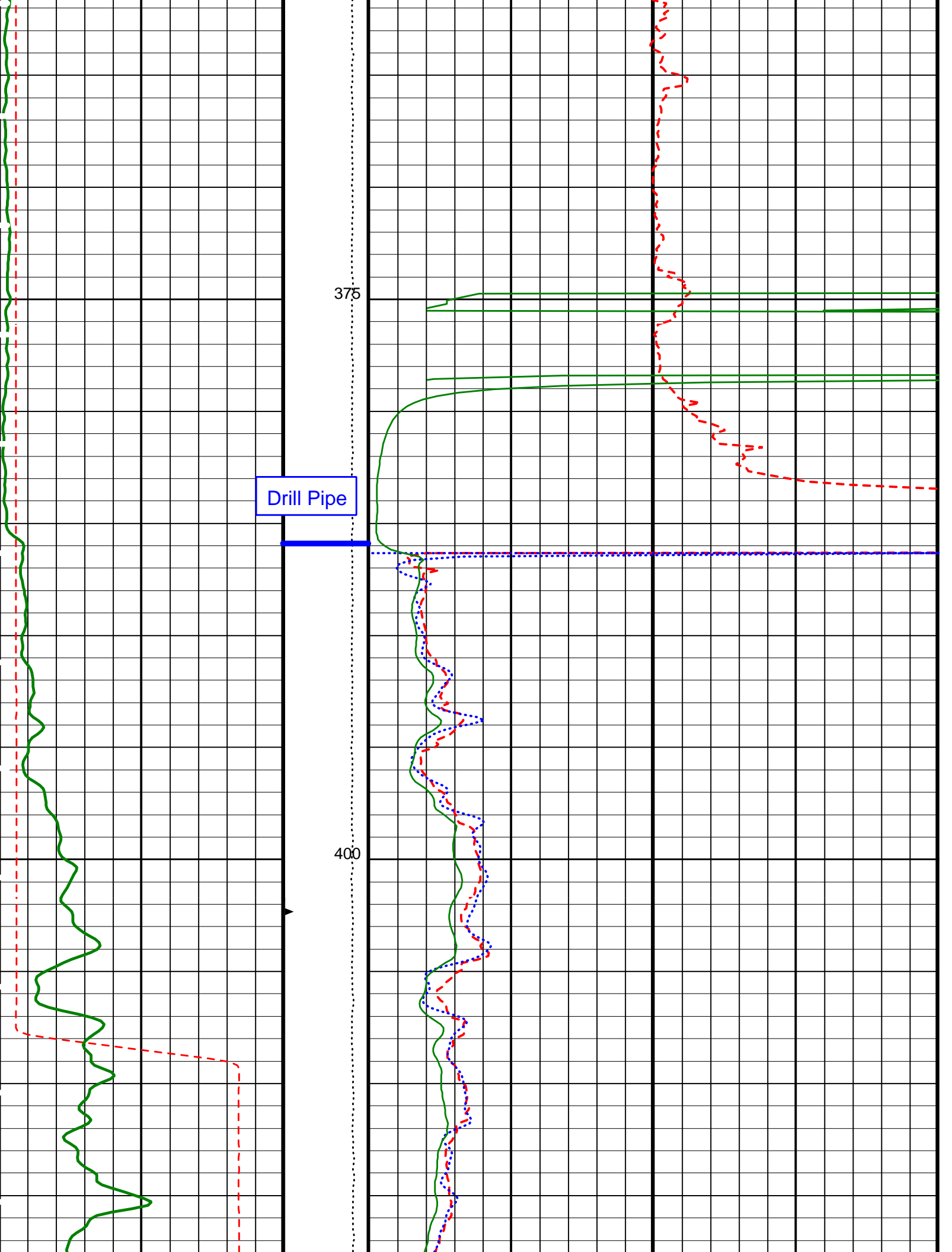
DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	LCAL	419.7 14:42:33

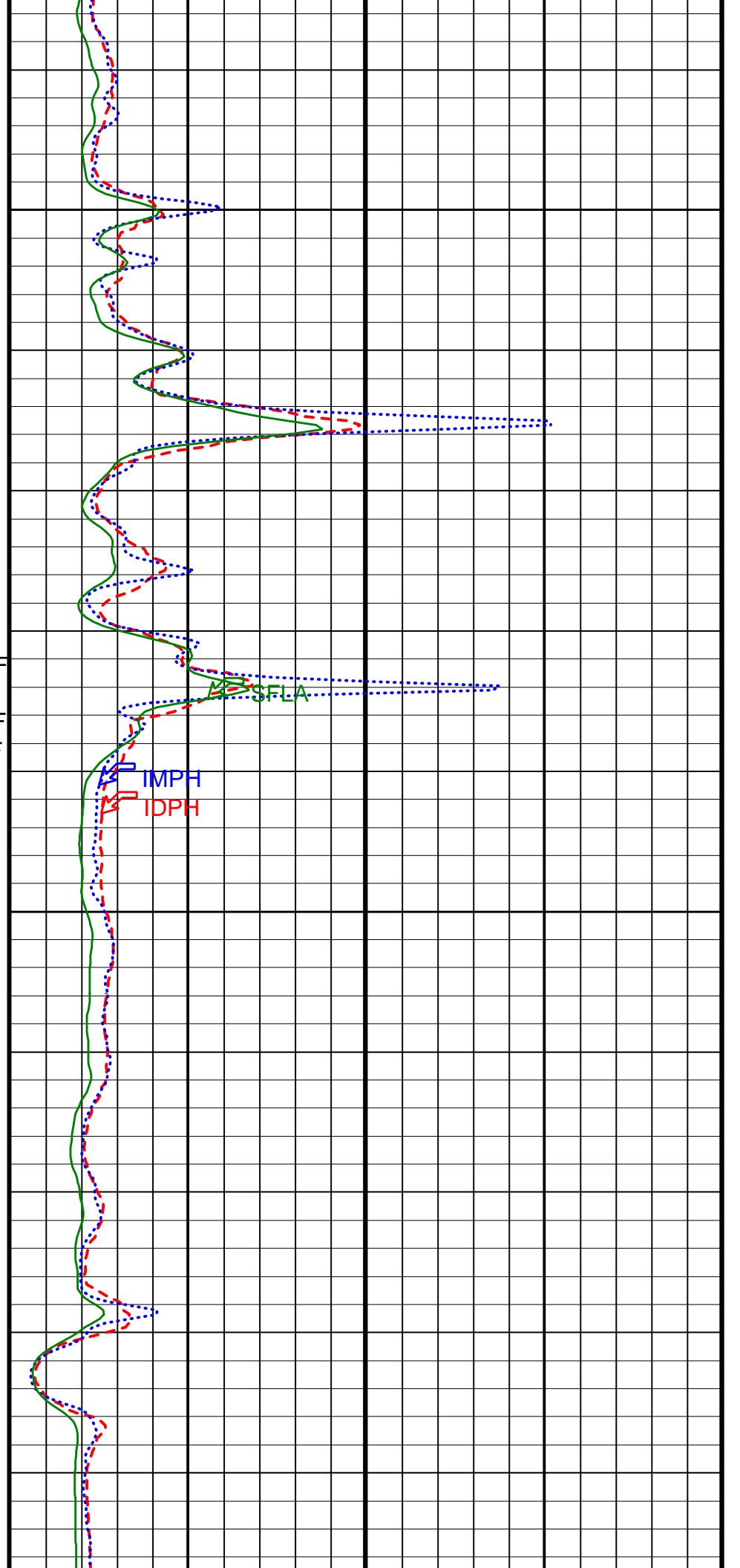
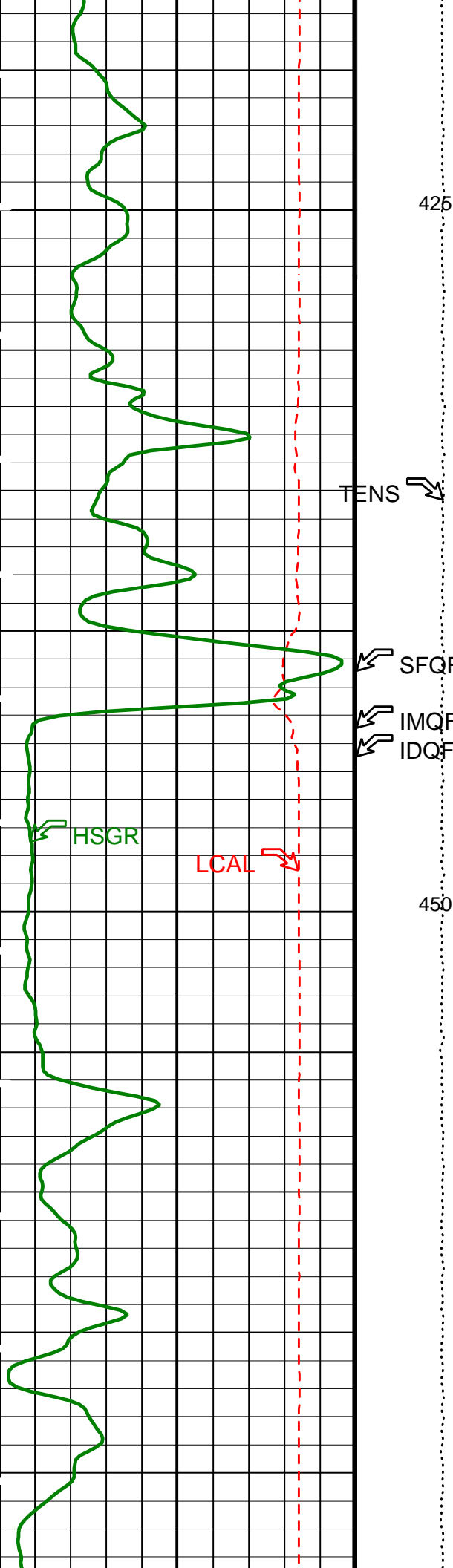
PIP SUMMARY

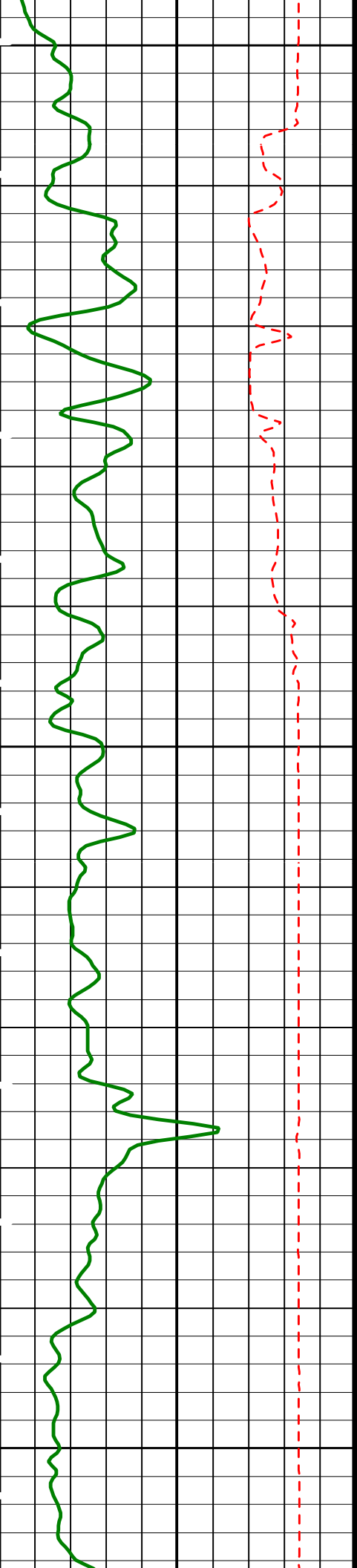
Time Mark Every 60 S

	SFL_QUAL From D3T to SFQF	
	IM_QUAL From SFQF to IMQF	<div style="border-top: 1px solid green; border-bottom: 1px solid green; padding: 2px;"> SFL Averaged (SFLA) (OHMM) </div>
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	ID_QUAL From IMQF to IDQF	<div style="border-top: 1px dotted blue; border-bottom: 1px dotted blue; padding: 2px;"> Medium Induction Phasor-processed Resistivity (IMPH) (OHMM) </div>
HLDS Caliper (LCAL) (IN)	Tension (TENS) (LRF)	<div style="border-top: 1px dashed red; border-bottom: 1px dashed red; padding: 2px;"> Deep Induction Phasor-processed Resistivity (IDPH) (OHMM) </div>





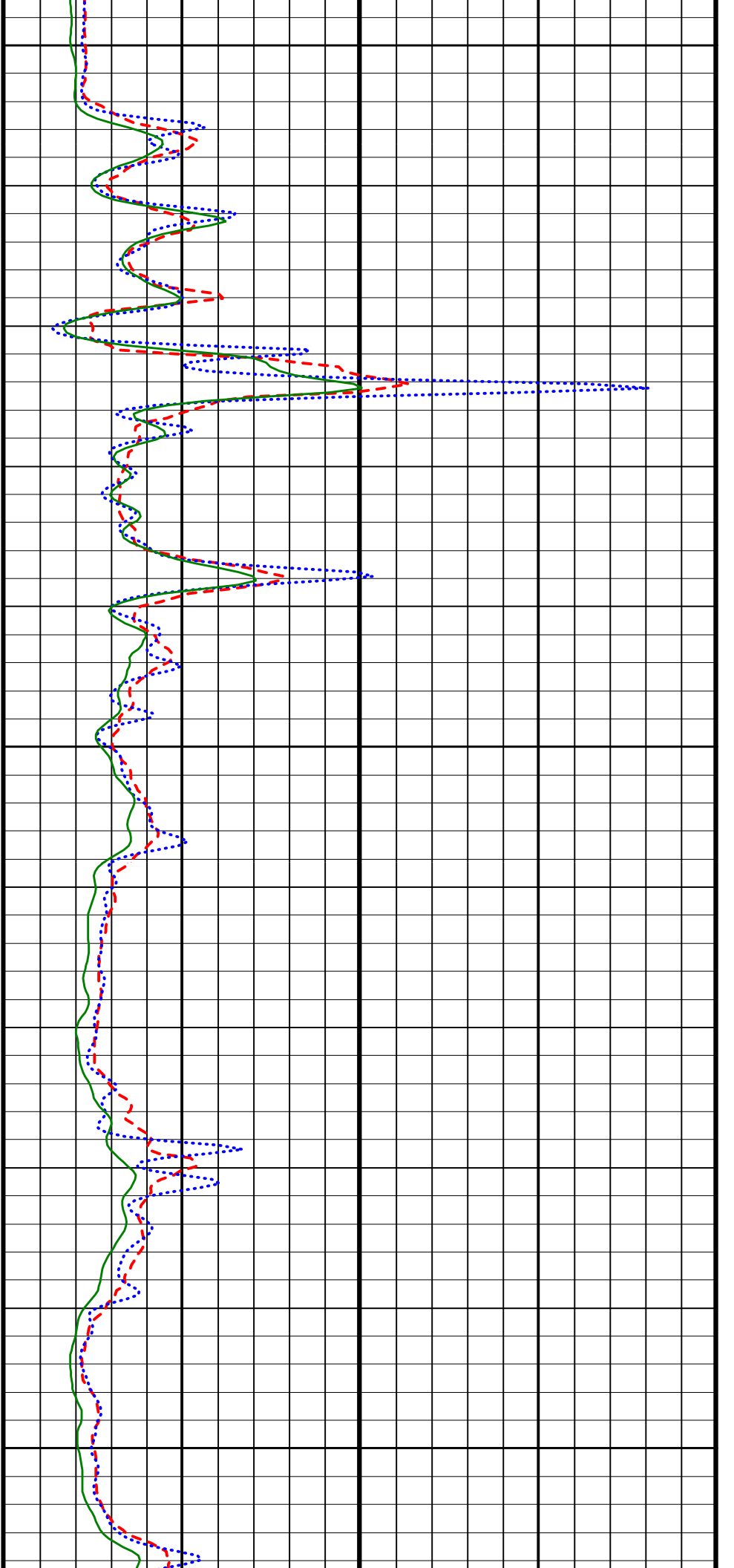


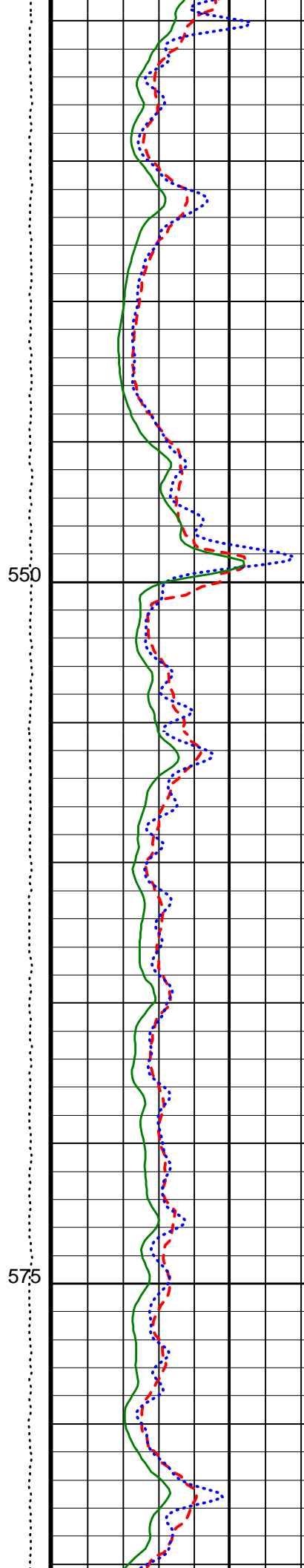
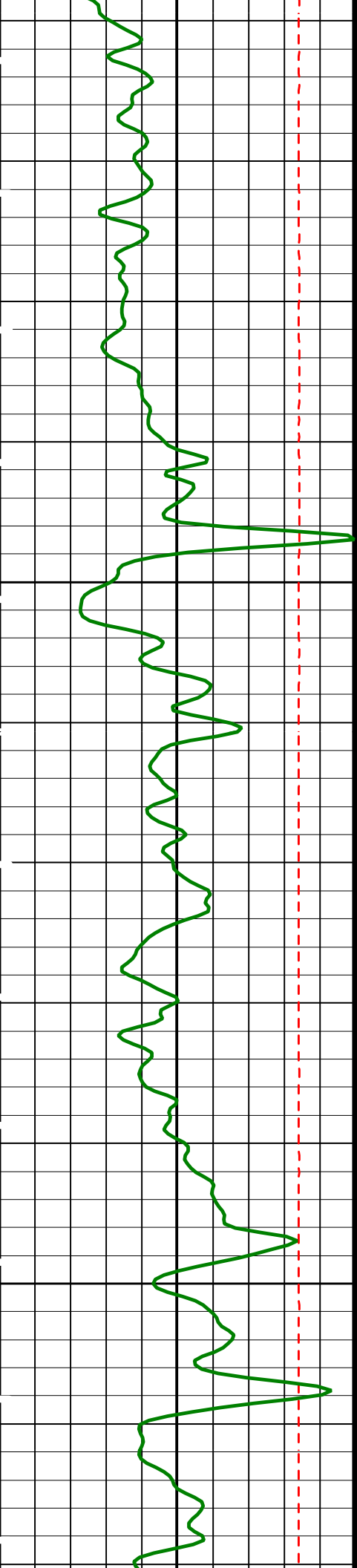


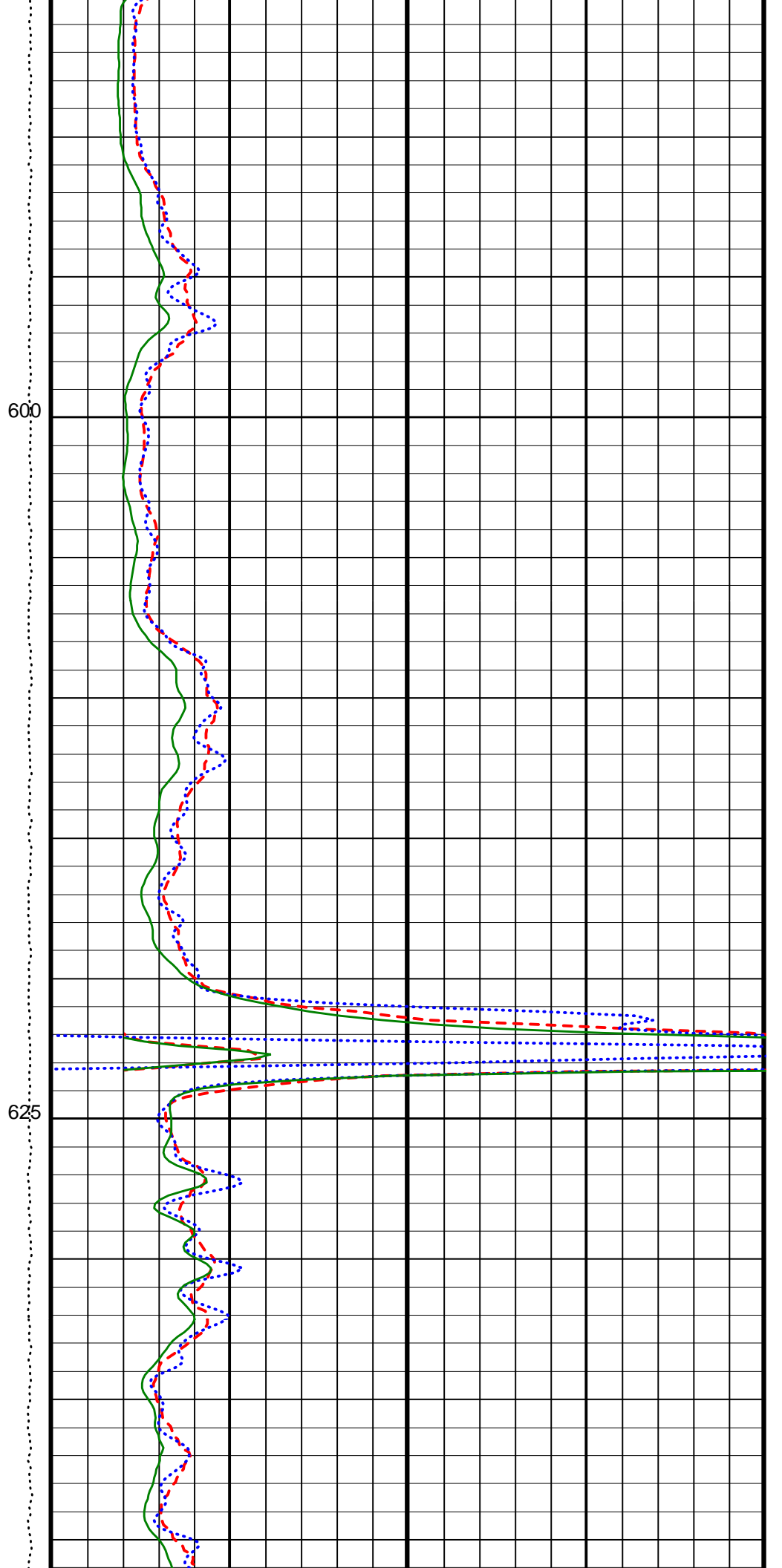
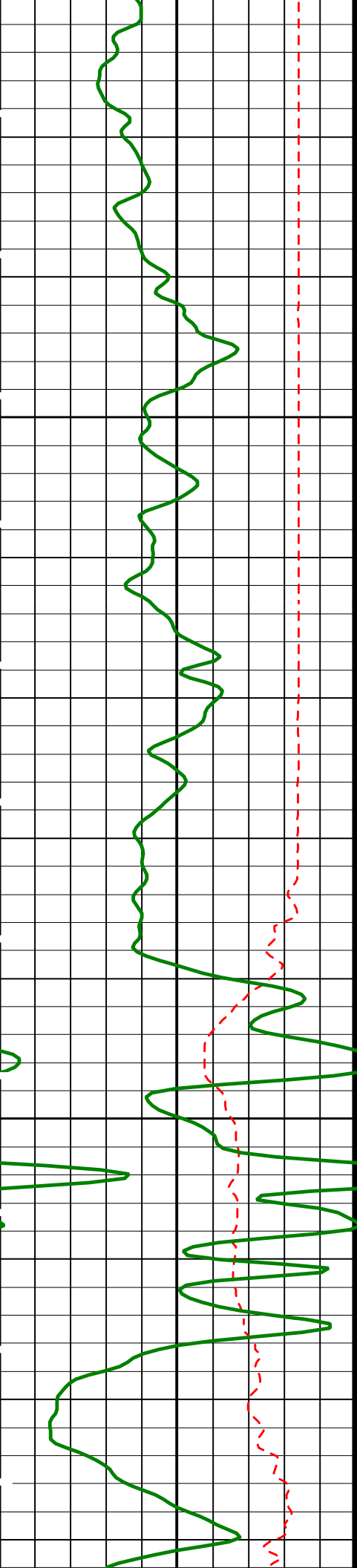
475

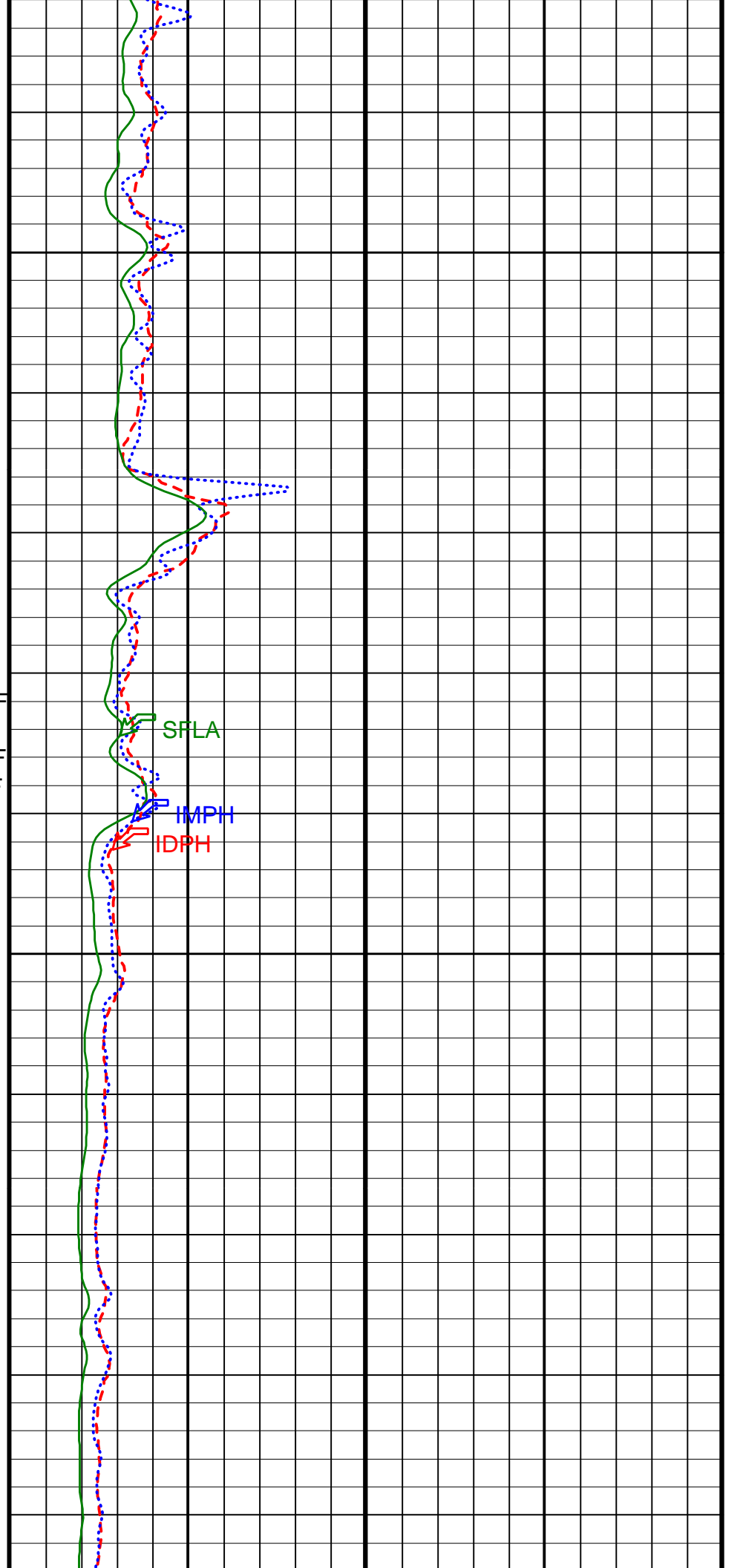
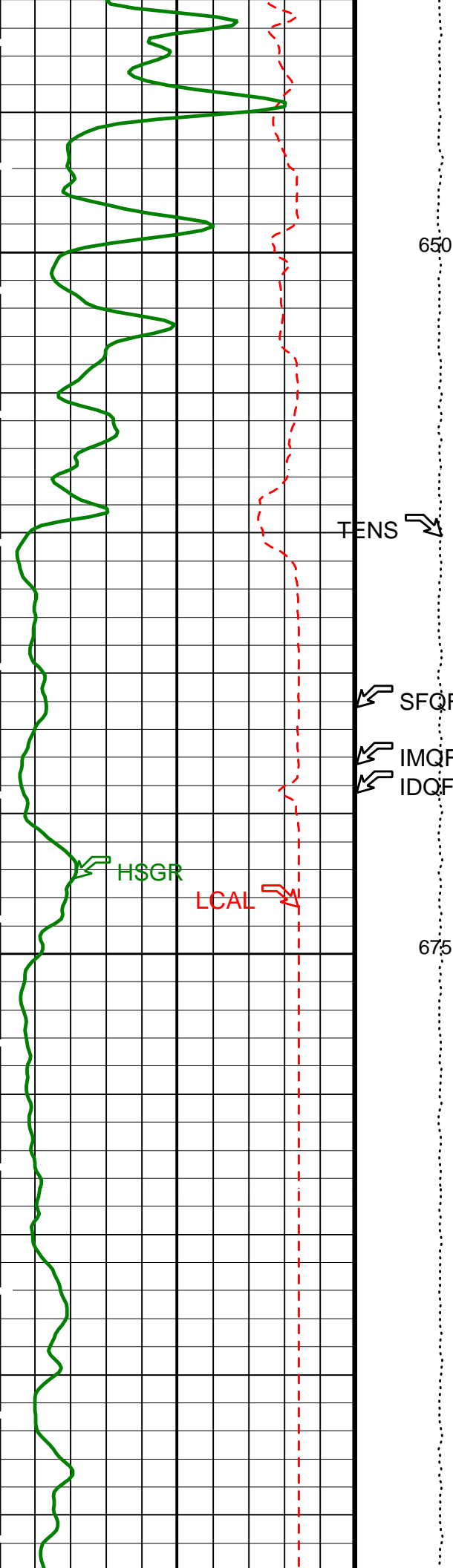
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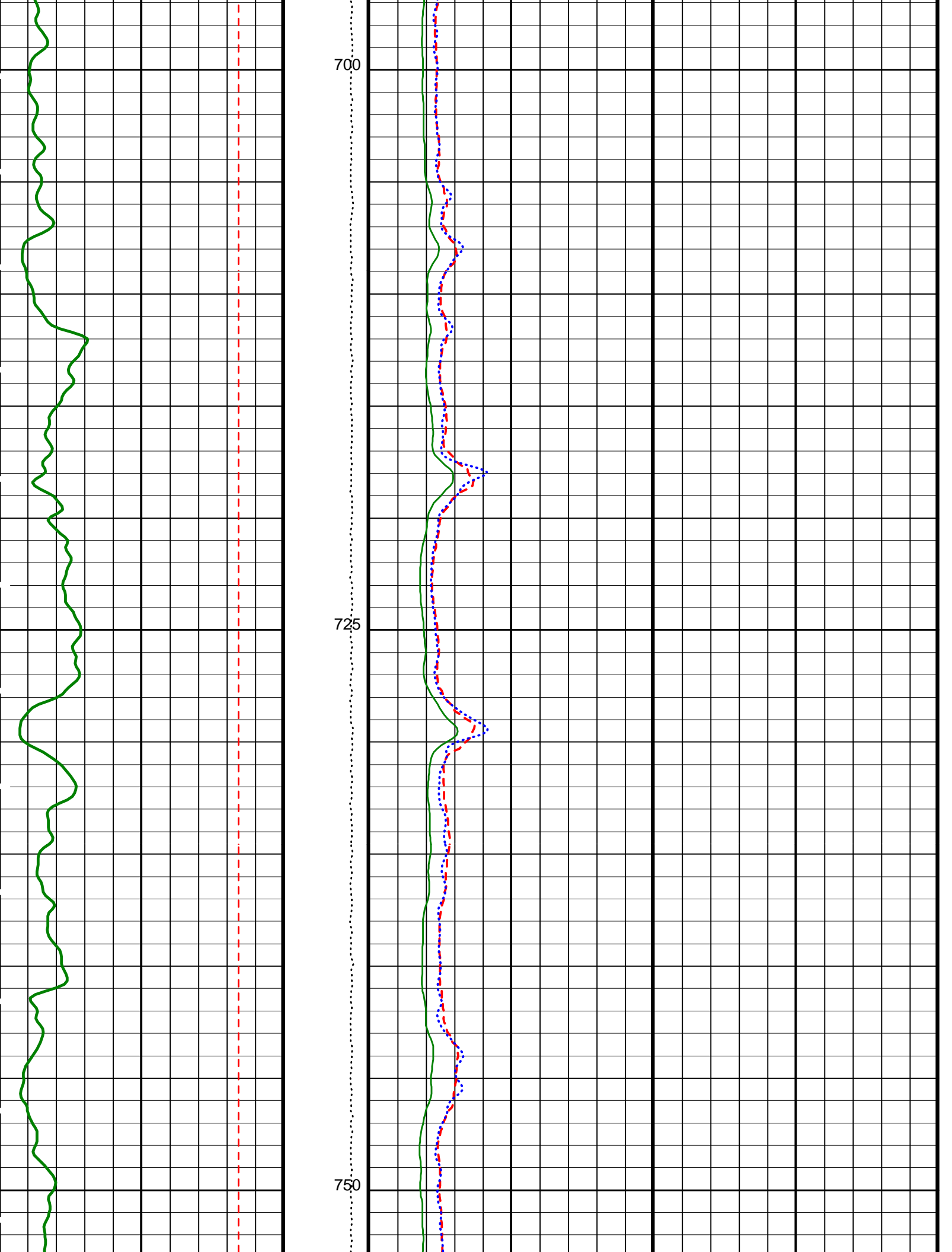
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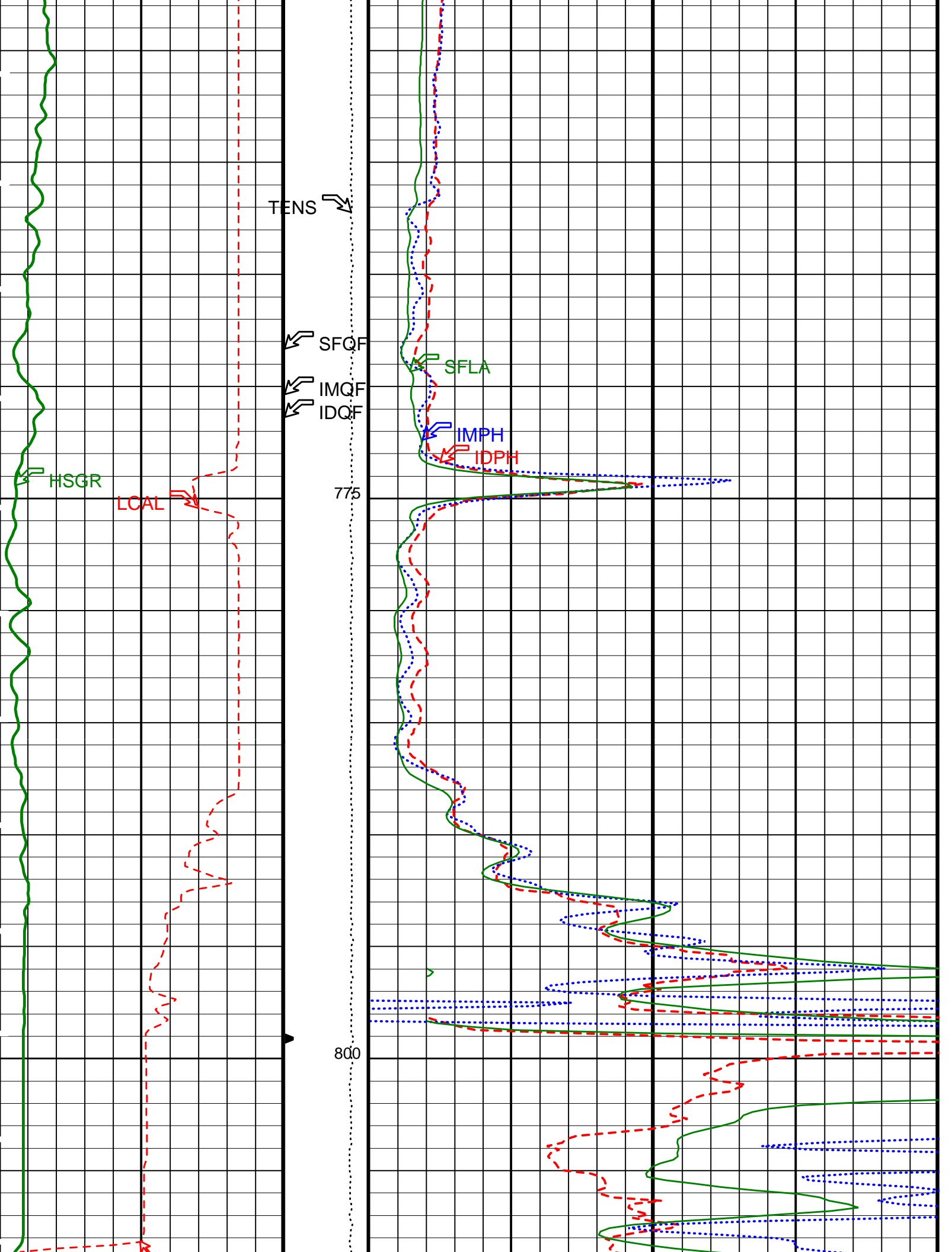


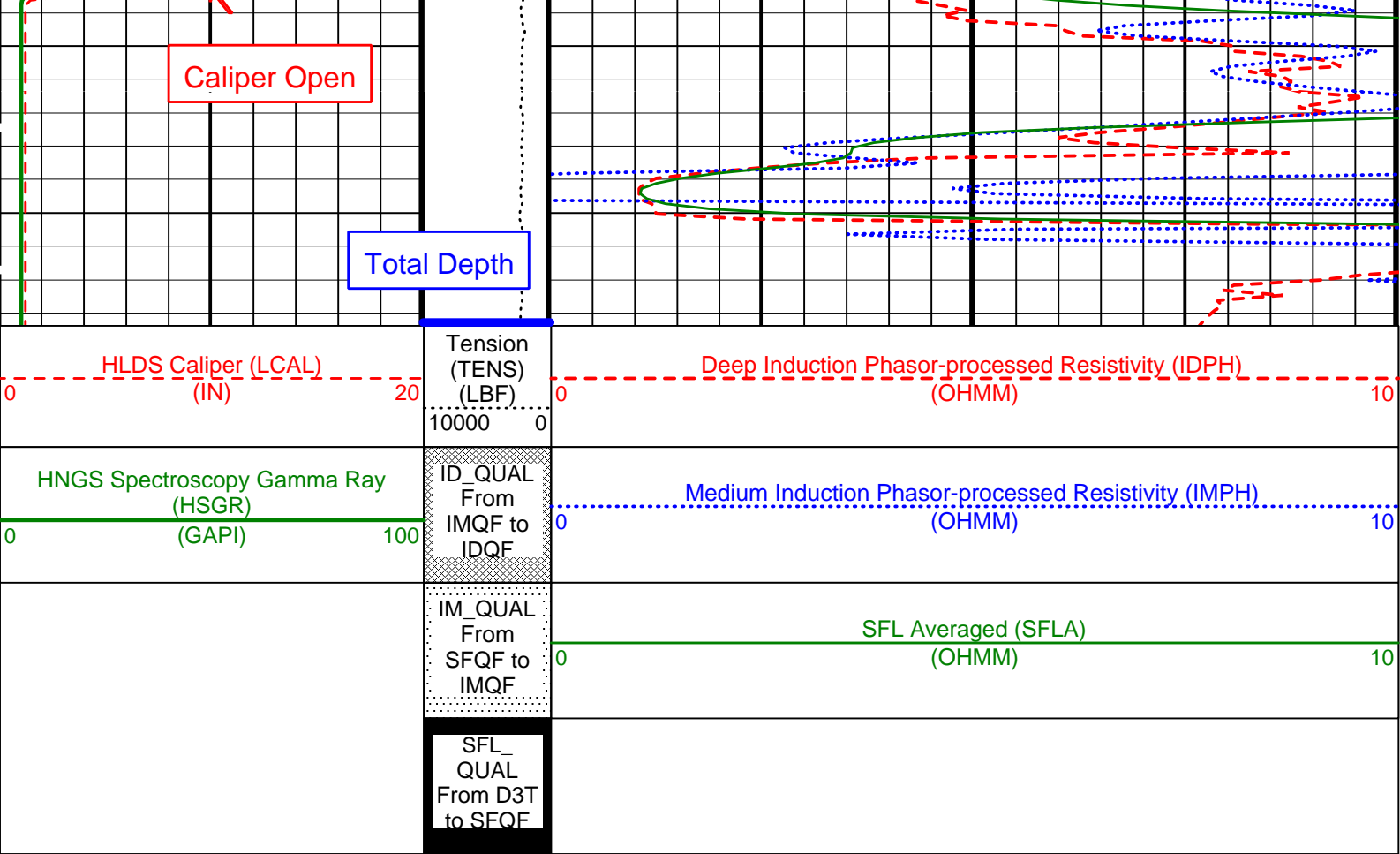












PIP SUMMARY

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	-0.000746505
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	2.80404e-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	0.000135419	
SFCR	SFL Channel Ratio	1000	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
TD	Total Depth	987	M
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01354	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.951953	

Format: DITE_LinPhasor Vertical Scale: 1:200 Graphics File Created: 03-Feb-2001 12:48

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		

Output DLIS Files

DEFAULT	DITE .005	FN:6	PRODUCER	03-Feb-2001 12:48
TCOMBO_CUST	DITE .005	FN:7	PRODUCER	03-Feb-2001 12:48
DEFAULTC	DITE .005	FN:8	PRODUCER	03-Feb-2001 12:48

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 4-JAN-2001 10:08 Before: 11-JAN-2001 4:16 After: 3-FEB-2001 15:26							
SS Total Countrate Bkg	1645	1419	1424	1419	-5.329	80.00	CPS
SS HV Measured Bkg	1100	1065	1064	1067	2.916	80.00	V
SS Cs Centroid Bkg	661.0	661.3	661.4	661.3	-0.08258	1.500	KEV
SS Cs Resolution Bkg	9.000	8.550	8.493	8.567	0.07396	1.800	%
LS Total Countrate Bkg	1645	1450	1444	1441	-2.535	80.00	CPS
LS HV Measured Bkg	1100	1183	1185	1185	-0.5049	80.00	V
LS Cs Centroid Bkg	661.0	661.2	661.2	661.2	0.01056	1.500	KEV
LS Cs Resolution Bkg	9.000	8.791	8.735	8.808	0.07353	1.800	%
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
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
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 23-DEC-2000 23:30 Before: 11-JAN-2001 4:18 After: 3-FEB-2001 15:28							
Near Det Bkg Cntrate	30.00	31.57	32.15	32.02	-0.1335	N/A	CPS
Far Det Bkg Cntrate	30.00	32.42	33.39	34.07	0.6759	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.31	28.68	28.98	0.2963	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.16	30.43	31.42	0.9868	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.80	32.25	32.67	0.4194	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
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	
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 4-JAN-2001 11:08 Before: 11-JAN-2001 4:17 After: 3-FEB-2001 15:27							
Na 511 Peak Loc	40.00	40.50	40.70	40.77	0.06963	1.000	
Na 511 Peak Res	15.50	15.85	16.61	15.61	-0.9951	2.000	%
High Voltage	1150	1098	1107	1107	0.02991	30.00	V
Na 1785 Peak Loc	142.6	146.2	146.5	146.1	-0.4325	7.000	
Na 1785 Peak Res	8.500	9.591	9.938	9.062	-0.8764	2.000	%
Temperature	15.50	30.64	32.47	30.62	-1.851	N/A	DEGC
Na Count Rate	45.00	22.42	22.33	21.90	-0.4344	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 4-JAN-2001 11:08 Before: 11-JAN-2001 4:17 After: 3-FEB-2001 15:27							
Na 511 Peak Loc	40.00	40.56	40.54	40.55	0.008690	1.000	
Na 511 Peak Res	15.50	14.93	15.50	15.33	-0.1683	2.000	%
High Voltage	1150	1186	1195	1195	0.07629	30.00	V
Na 1785 Peak Loc	142.6	145.0	143.8	145.2	1.380	7.000	
Na 1785 Peak Res	8.500	7.793	9.552	8.861	-0.6905	2.000	%
Temperature	15.50	29.74	31.41	30.22	-1.191	N/A	DEGC
Na Count Rate	45.00	22.62	22.43	22.23	-0.1939	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							
Master: 4-JAN-2001 11:08 Before: 11-JAN-2001 4:17 After: 3-FEB-2001 15:27							
Coincidence Count Rate Ratio	1.000	0.9911	0.9979	0.9882	-0.009722	0.05000	

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting 1748 V
Far Detector Plateau Setting 2052 V
Array Detector Plateau Setting 1969 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				Before			Before			

Before	-106.7 (Minimum)	18.33 (Nominal)	143.3 (Maximum)	18.51	Before	0.8273 (Minimum)	0.9773 (Nominal)	1.168 (Maximum)	0.9686	Before	-10.47 (Minimum)	4.529 (Nominal)	19.53 (Maximum)	4.603	
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			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: 5: 818.4 - 307.4														
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			0.02463	After		0.0001663	After			0.0008897				
	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			0.02681	After		0.0001520								
	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			0.002417	After		0.0008320								
	0 (Minimum)	0 (Nominal)	0.7500 (Maximum)		0 (Minimum)	0 (Nominal)	2.000 (Maximum)							

After: 3-FEB-2001 15:05

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		1419	After		1067	After		16650
	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		661.3	After		8.567	After		1441
	656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.000 (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		1185	After		18200	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		86.65	After		79.65
	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		176.0	After		214.3	After		496.0
	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		86.09	After		154.4	After		411.2
	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		220.2	After		160.6			
	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: 3-FEB-2001 15:26

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	

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		32.02	After		34.07	After		28.98
	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		31.42	After		32.67			
	0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				
Master: 23-DEC-2000 23:30			Before: 11-JAN-2001 4:18			After: 3-FEB-2001 15:28		

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) 1.050 (Maximum)			0.9000 (Minimum) 1.030 (Nominal) 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		40.77	After		15.61	After		1107
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEG C	Value

Master		146.2	Master		9.591	Master		30.64
Before		146.5	Before		9.938	Before		32.47
After		146.1	After		9.062	After		30.62
135.0 (Minimum)		142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)		-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)		
Phase	Na Count Rate CPS		Value					
Master			22.42					
Before			22.33					
After			21.90					
15.00 (Minimum)		45.00 (Nominal)	100.0 (Maximum)					
Master: 4-JAN-2001 11:08			Before: 11-JAN-2001 4:17			After: 3-FEB-2001 15:27		

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			40.55	After			15.33	After			1195	
37.50 (Minimum)			40.00 (Nominal)	42.50 (Maximum)	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)				
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value	
Master			145.0	Master			7.793	Master			29.74	
Before			143.8	Before			9.552	Before			31.41	
After			145.2	After			8.861	After			30.22	
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)				
Phase	Na Count Rate CPS		Value									
Master			22.62									
Before			22.43									
After			22.23									
15.00 (Minimum)			45.00 (Nominal)	100.0 (Maximum)								
Master: 4-JAN-2001 11:08			Before: 11-JAN-2001 4:17			After: 3-FEB-2001 15:27						

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9911
Before		0.9979
After		0.9882
0.9500 (Minimum)		1.000 (Nominal)
		1.050 (Maximum)
Master: 4-JAN-2001 11:08		
Before: 11-JAN-2001 4:17		
After: 3-FEB-2001 15:27		

COMPANY:	Lamont Doherty	BOTTOM LOG INTERVAL	819 m
WELL:	ODP Leg 194, Site 1196A	SCHLUMBERGER DEPTH	821 m
		DEPTH DRILLER	987.4 m

FIELD:	Marion Plateau	KELLY BUSHING	11.3 m
Country:	Australia	DRILL FLOOR	11 m
Ocean:	Pacific Ocean	GROUND LEVEL	-315.2 m

Phasor Induction/Natural GR

Schlumberger