COMPANY: Lamont Doherty

WELL: ODP Leg 194, Site 1199A

FIELD: Marion Plateau

Country: Australia Ocean: Pacific Ocean

Company: Lamont Doherty
Well: ODP Leg 194, Site 1199A
Location: Rig- Joides Resolution
Field: Marion Plateau
Country: Australia

Schlumberger Phasor Induction-Natural GR

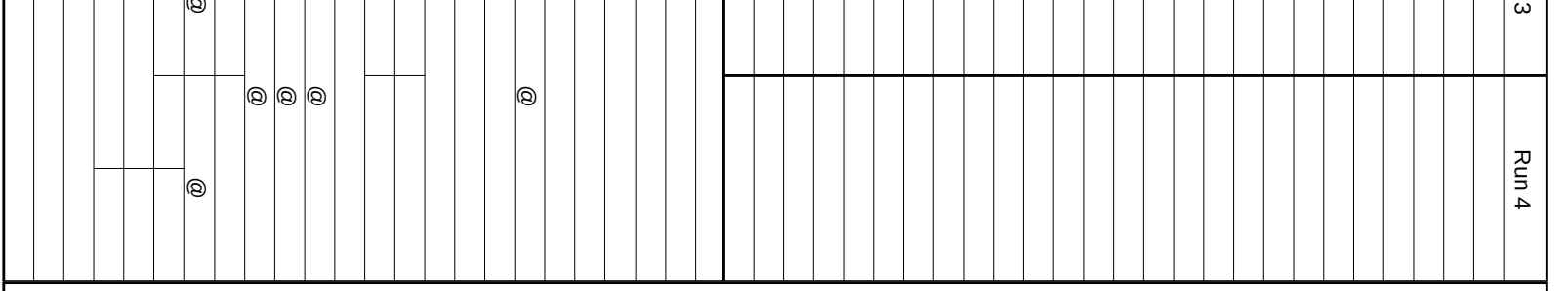
LOCATION

Rig- Joides Resolution		Elev.: K.B.	11.3 m
		G.L.	-327 m
		D.F.	11 m
Permanent Datum:	GROUND LEVEL	Elev.:	
Log Measured From:	DES		above Perm. Datum
Drilling Measured From:	DES		

API Serial No.	SECTION	TOWNSHIP	RANGE

	Run 1	Run 2	Run
Logging Date	2/21/01		
Run Number	1		
Depth Driller	746.5 m		
Schlumberger Depth	743 m		
Bottom Log Interval	742 m		
Top Log Interval	322 m		
Casing Driller Size @ Depth	0.000 in @ 396 m	@	
Casing Schlumberger	396 m		
Bit Size	9.875 in		
Type Fluid In Hole	Sepiolite		
MUD Density / Viscosity	1.1 g/cm3		
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	2/21/01	1100	
Logger On Bottom / Time		See Log	
Unit Number / Location	99 Houston		
Recorded By	Steve Kittredge		
Witnessed By	Heike Delius, 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			
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: None	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole Cored With RCB.	
WHC used on all runs.	
Had problems getting past 455 MBRF.	
Log Measured in Meters Below Rig Floor (MBRF).	
Sea Floor Driller- 327 MBRF.	
Sea Floor Logger- 326 MBRF.	
Driller Pipe Driller- 396 MBRF.	
Drill Pipe Logger- 396 MBRF.	
Total Depth Driller- 746.5 MBRF.	
Total Depth Logger- 743	
Sepiolite Mud used to flush the hole.	

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 RUN 2

SURFACE EQUIPMENT

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

DOWNHOLE EQUIPMENT

LEH-QT LEH-QT			28.69
DTC-H ECH-KC	CTEM TelStatus ToolStatu	27.52 26.89	27.80
HNGS-BA HNGS-BA 27	Upper_1 Lower_2	26.19 25.98	26.89

HNGS-BA 27
HNSH-BA 27

Lower_2 — 25.98

ILE-D
ILE-D

24.39

Status

APS-BA
APS-BA 22
APH-AC 22
MNTR-F 4185

21.95

Minitron
Near TD — 19.51
Near Arr — 19.43
Near — 19.30
Far Arr — 19.20
Far — 19.20
Far TD

NPLC-B
NPLC-B 79
NPH-B 82

18.01

Status — 16.78

HLDS
GSR-Z 1846
HLDV-D 35
HLDS-D 35
HEH-H 35
HLDP-C 12

15.56

Caliper
SS LS Status — 11.51

DTA-A
ECH-KE
DTA-A

10.74

DIT-E
DIC-EB 352
MIH-ZA 342
DIS-HB 355

9.52

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

TOOL ZERO

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

Input DLIS Files

DEFAULT	DITE .004	FN:5	PRODUCER	21-Feb-2001 18:55	743.0 M	322.0 M

Output DLIS Files

DEFAULT	DITE .012	FN:18	PRODUCER	23-Feb-2001 01:54	743.0 M	322.0 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		

PIP SUMMARY

Time Mark Every 60 S

SFL_ QUAL From D3T to SFQF

IM_QUAL From SFQF to IMQF

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100

ID_QUAL From IMQF to IDQF

Medium Induction Phasor-processed Resistivity (IMPH)

0.2 (OHMM) 2000

HLDS Caliper (LCAL)

0 (IN) 20

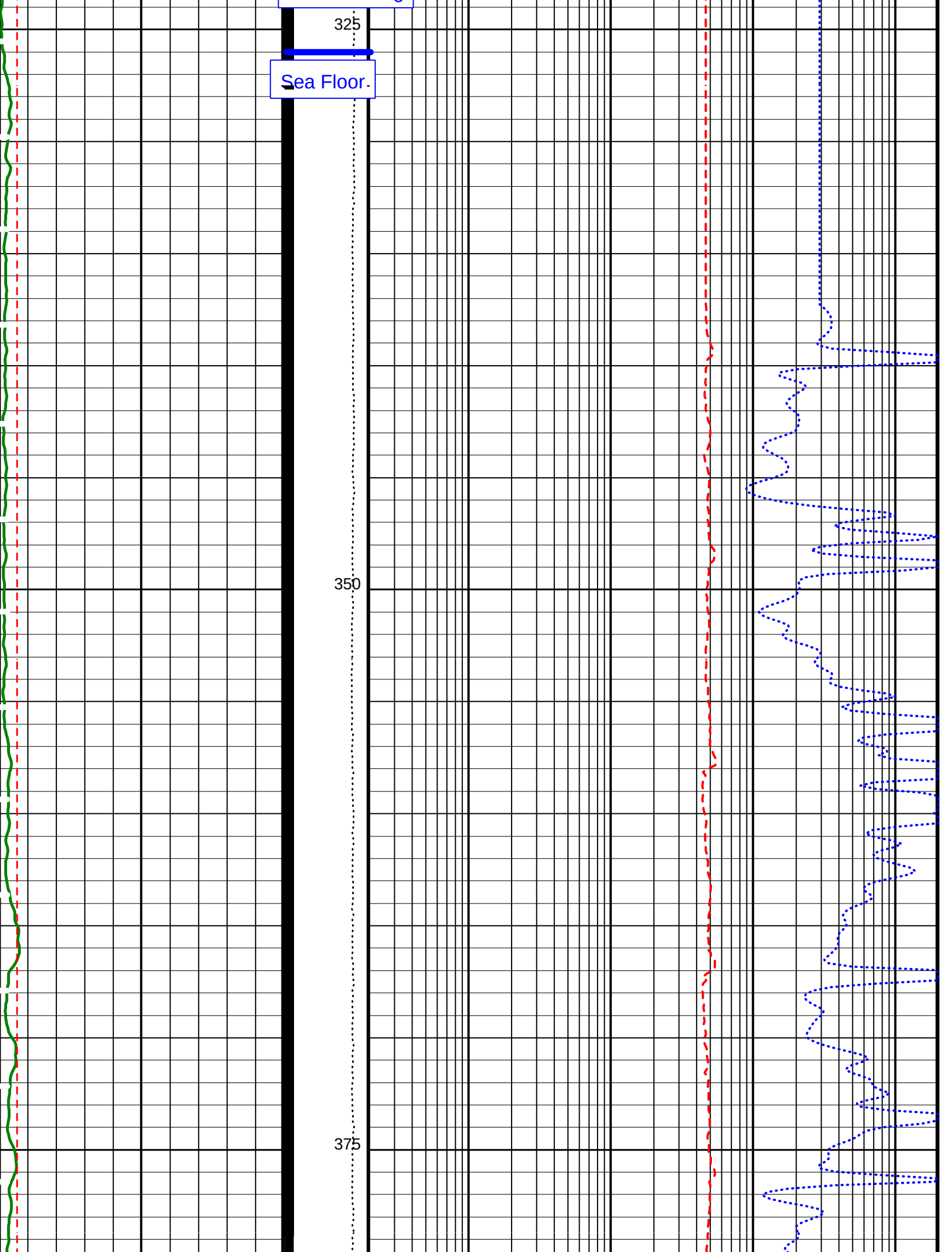
Tension (TENS) (LBF)

10000 0

Deep Induction Phasor-processed Resistivity (IDPH)

0.2 (OHMM) 2000

Last Reading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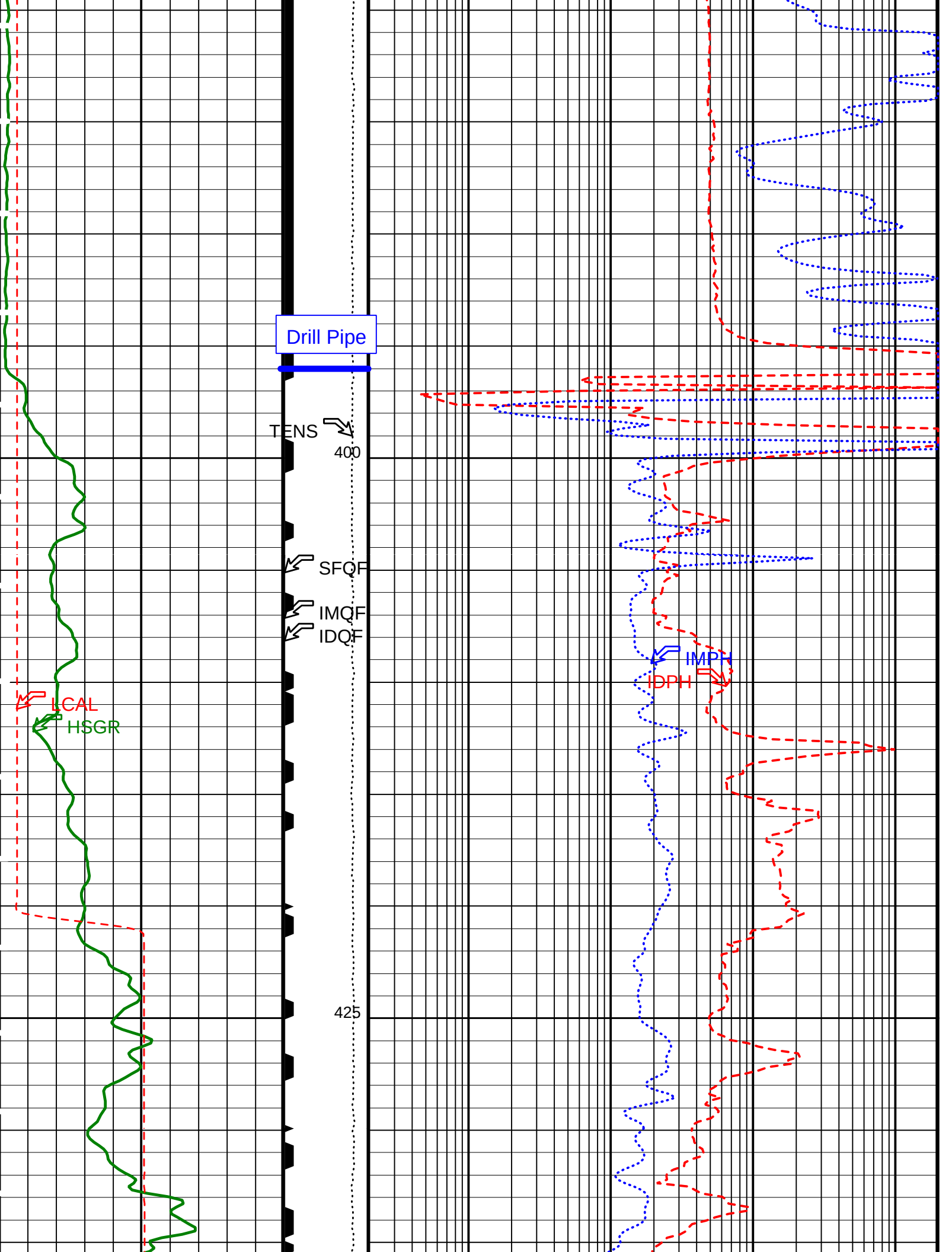
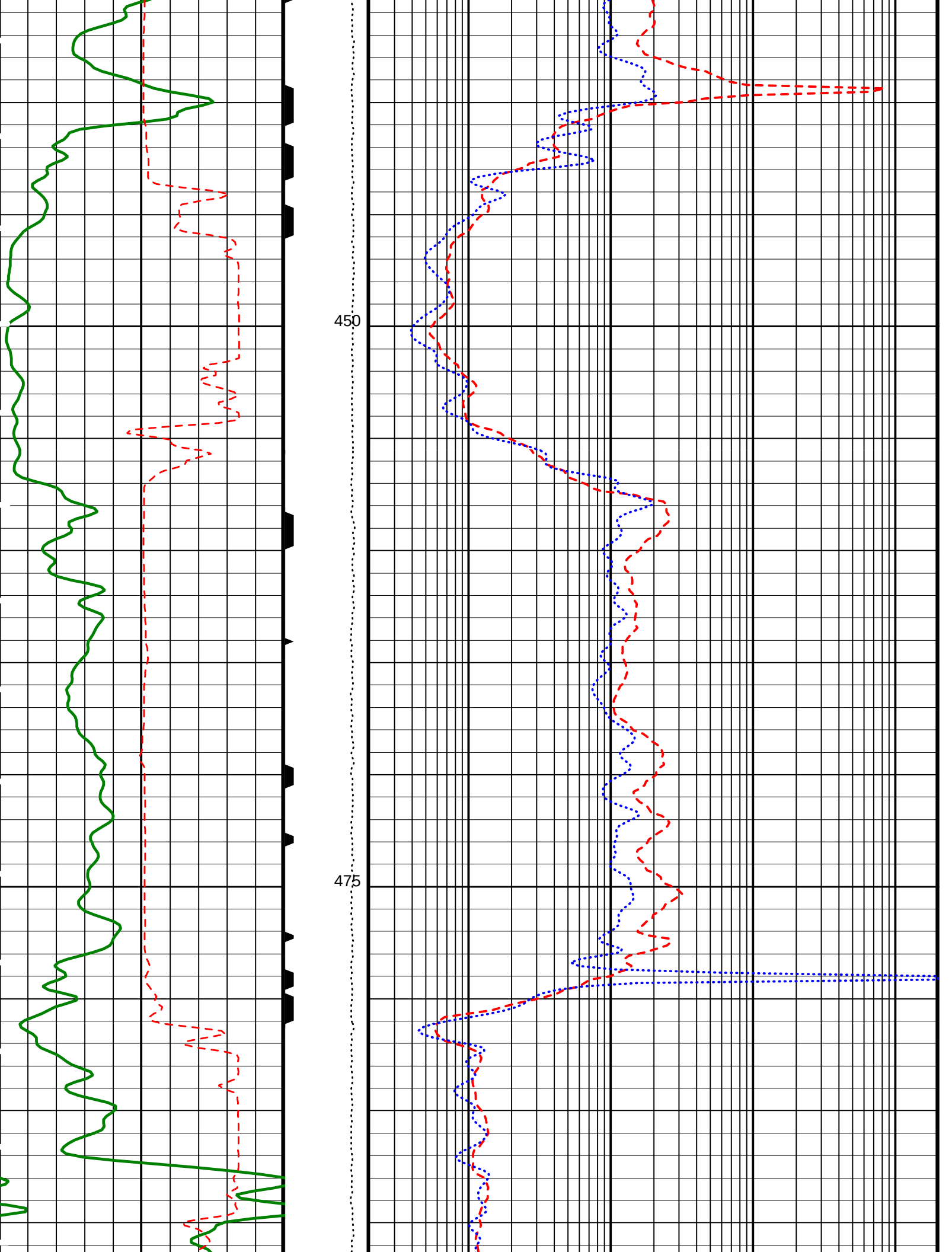
Sea Floor
350
375


Drill Pipe
TENS
400
SFQF
IMQF
IDQF
IMPH
IDPH
LCAL
HSGR
425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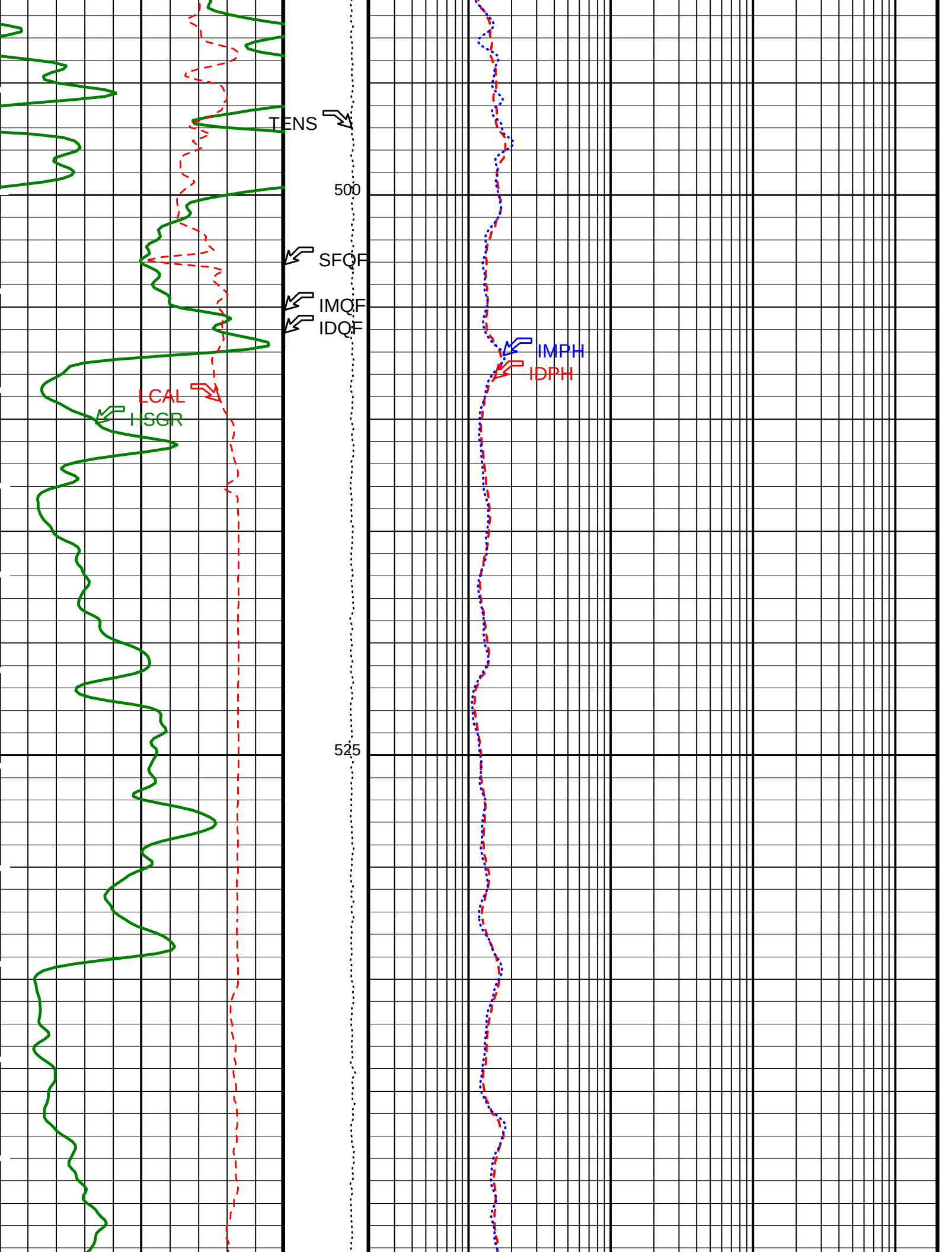
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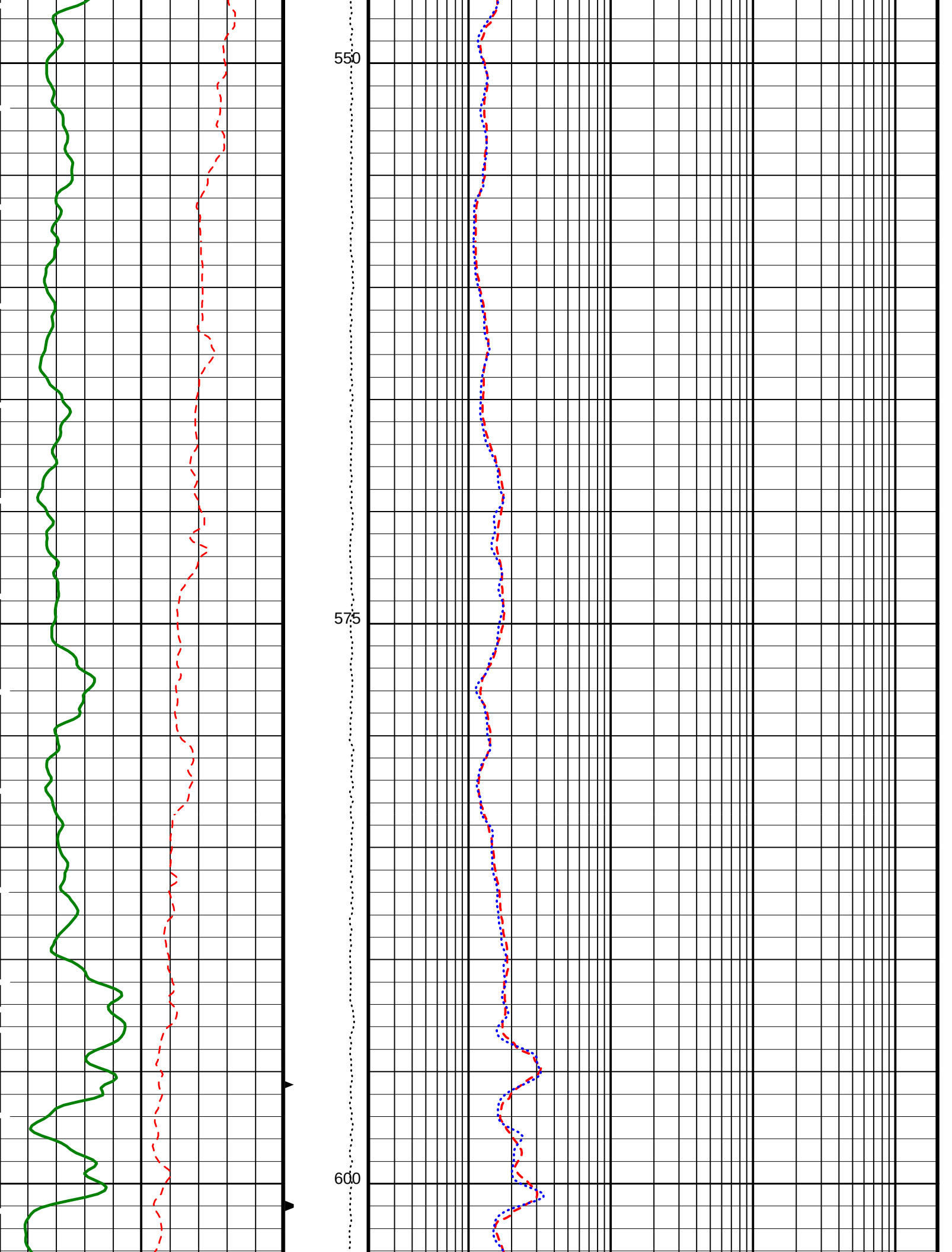
SFQF
IMQF
IDQF
IMPH
IDPH
LCAL
ISGR
525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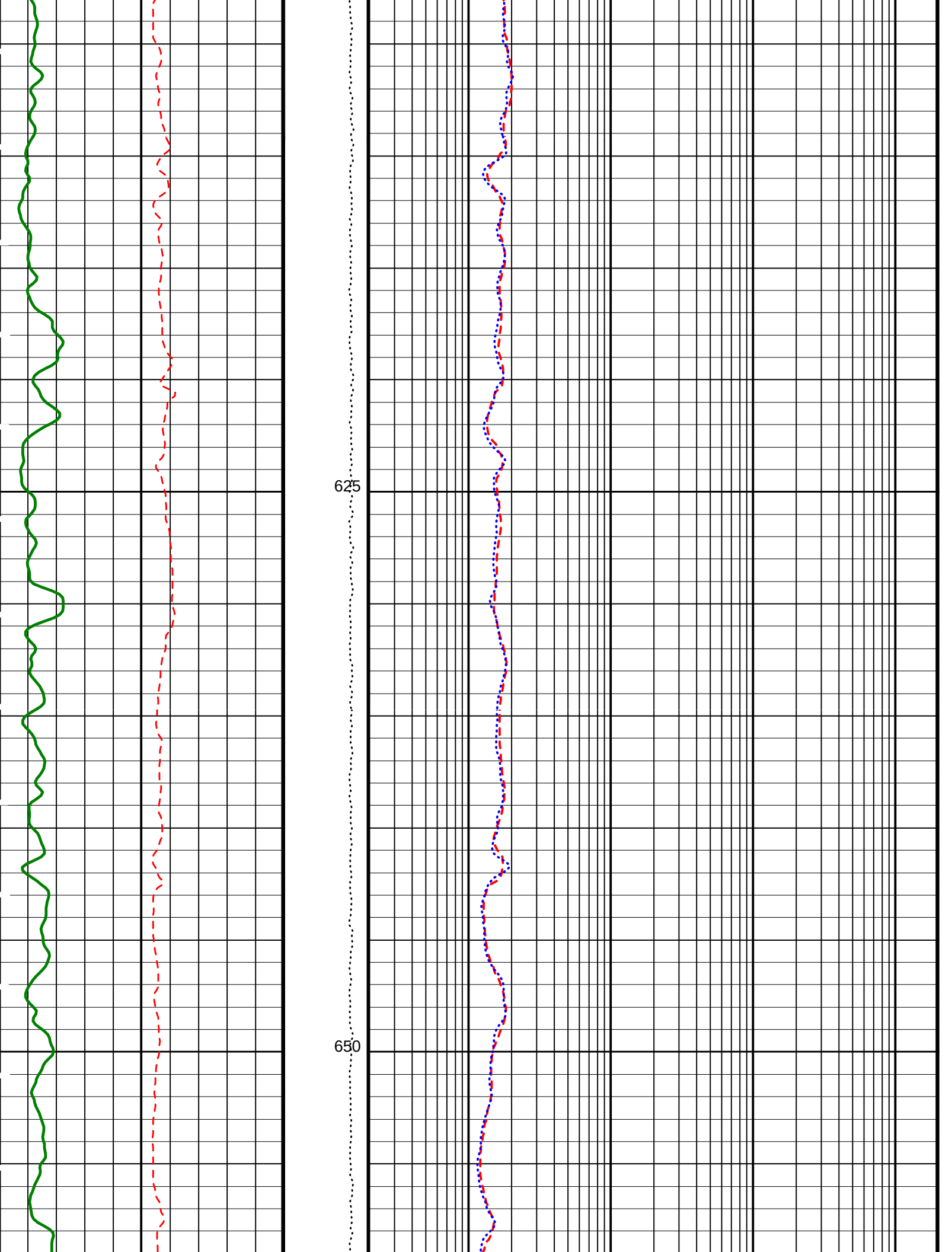
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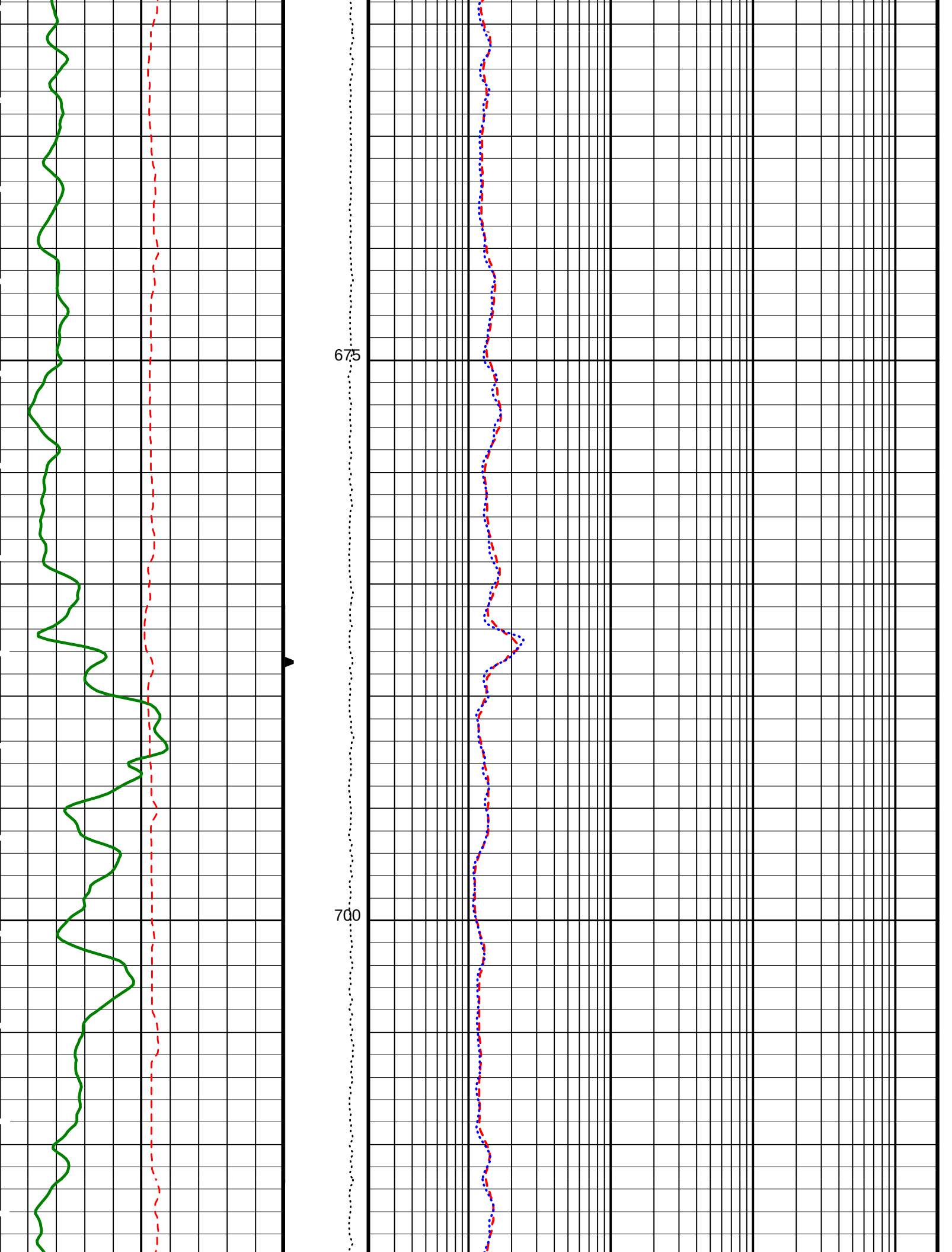
650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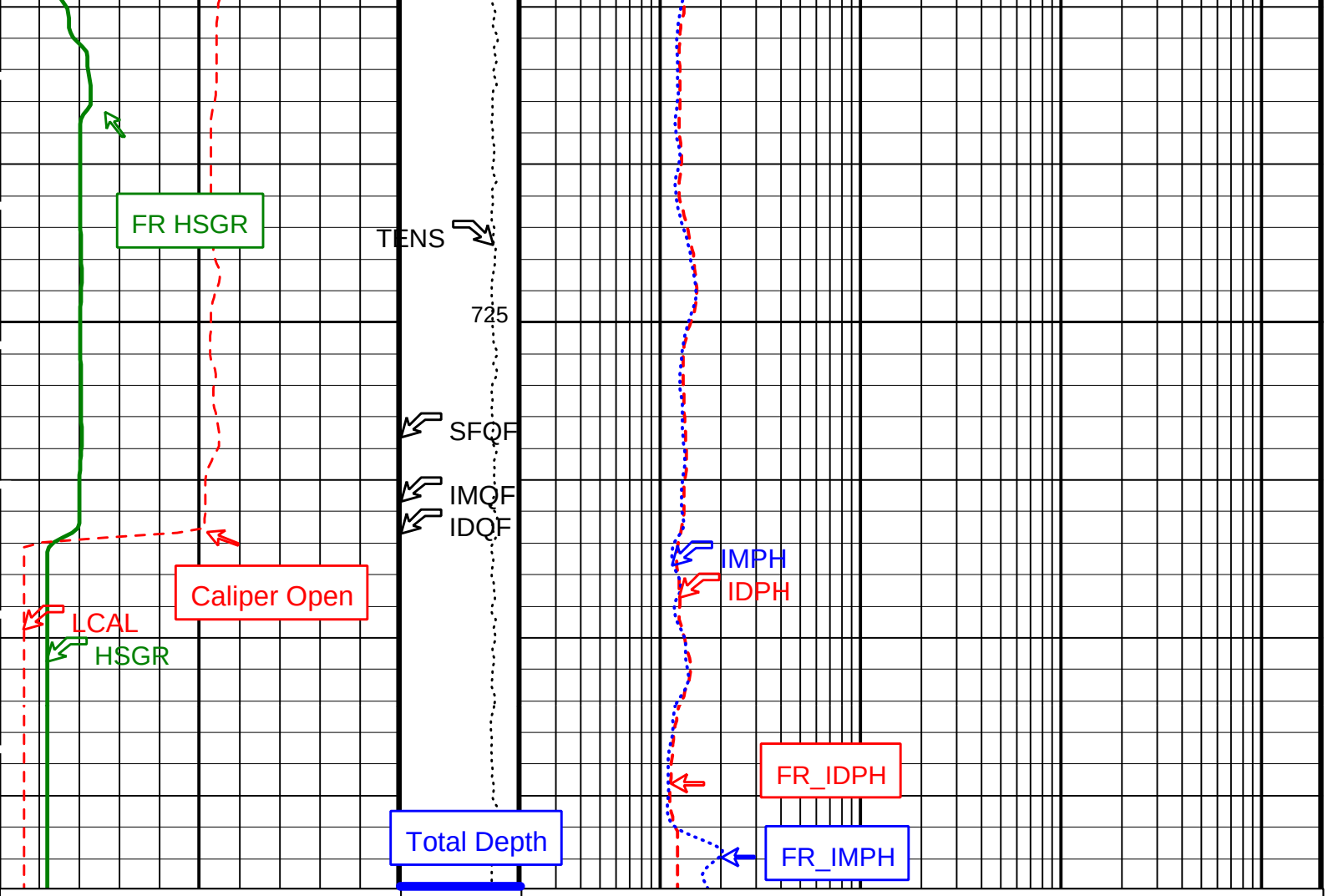
700



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

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

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

ID_QUAL From IMQF to IDQF

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

IM_QUAL From SFQF to IMQF

SFL_ QUAL From D3T to SFQF

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)	100	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	1.0235	
DO	Depth Offset for Logical Unit 1	0.0	M
DPH2	Deep 20 kHz Phase Shift	-0.230754	DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	18.3624	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	-42.2018	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	-0.00126851	
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	4.14061e-032	
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	1.02156	
MPH2	Medium 20 kHz Phase Shift	-1.08578	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	8.9436	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	-46.3369	MM/M
PP	Playback Processing	NORMAL	
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	0.000173244	
SFCR	SFL Channel Ratio	1000	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20.0001	DEGC
TD	Total Depth	9987.69	M
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01629	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.9433	

Format: DITE_LogPhasor Vertical Scale: 1:200 Graphics File Created: 23-Feb-2001 01:55

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		

Input DLIS Files

DEFAULT	DITE	.004	FN:5	PRODUCER	21-Feb-2001 18:55	743.0 M	322.0 M

Output DLIS Files

DEFAULT	DITE	.012	FN:18	PRODUCER	23-Feb-2001 01:54

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: 21-FEB-2001 21:07							
SS Total Countrate Bkg	1645	1419	1424	1414	-10.34	80.00	CPS
SS HV Measured Bkg	1100	1065	1064	1067	2.680	80.00	V
SS Cs Centroid Bkg	661.0	661.3	661.4	661.0	-0.3494	1.500	KEV
SS Cs Resolution Bkg	9.000	8.550	8.493	8.622	0.1288	1.800	%
LS Total Countrate Bkg	1645	1450	1444	1446	1.890	80.00	CPS
LS HV Measured Bkg	1100	1183	1185	1184	-1.073	80.00	V
LS Cs Centroid Bkg	661.0	661.2	661.2	661.2	-0.005798	1.500	KEV
LS Cs Resolution Bkg	9.000	8.791	8.735	8.810	0.07591	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: 21-FEB-2001 21:08							
Near Det Bkg Cntrate	30.00	31.57	32.15	32.70	0.5478	N/A	CPS
Far Det Bkg Cntrate	30.00	32.42	33.39	32.67	-0.7205	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.31	28.68	30.09	1.409	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.16	30.43	28.89	-1.538	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.80	32.25	32.50	0.2491	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: 21-FEB-2001 21:08							
Na 511 Peak Loc	40.00	40.50	40.70	40.74	0.03758	1.000	
Na 511 Peak Res	15.50	15.85	16.61	15.53	-1.072	2.000	%
High Voltage	1150	1098	1107	1107	-0.2094	30.00	V
Na 1785 Peak Loc	142.6	146.2	146.5	145.5	-1.048	7.000	
Na 1785 Peak Res	8.500	9.591	9.938	9.824	-0.1139	2.000	%
Temperature	15.50	30.64	32.47	30.45	-2.020	N/A	DEGC
Na Count Rate	45.00	22.42	22.33	20.68	-1.650	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: 21-FEB-2001 21:08							
Na 511 Peak Loc	40.00	40.56	40.54	40.63	0.08125	1.000	
Na 511 Peak Res	15.50	14.93	15.50	15.95	0.4543	2.000	%
High Voltage	1150	1186	1195	1196	0.7543	30.00	V
Na 1785 Peak Loc	142.6	145.0	143.8	145.0	1.229	7.000	
Na 1785 Peak Res	8.500	7.793	9.552	9.414	-0.1379	2.000	%
Temperature	15.50	29.74	31.41	29.99	-1.421	N/A	DEGC
Na Count Rate	45.00	22.62	22.43	21.03	-1.394	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: 21-FEB-2001 21:08							
Coincidence Count Rate Ratio	1.000	0.9911	0.9979	0.9841	-0.01377	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	355
Dual Induction Cartridge	DIC - EB	352
Auxiliary Equipment:		
Mass Isolated Housing	MIH - ZA	342

Dual Induction - E Wellsite Calibration

Induction Electronics (10 kHz)

Phase	Measurement	Value	Minimum	Nominal	Maximum
Before	ID Elect Real Offset 10 kHz MM/M	34.40	-266.2	33.79	333.8
Before	ID Elect Real Gain 10 kHz	0.9646	0.8284	0.9784	1.170
Before	ID Elect Phase 10 kHz DEG	8.337	-0.7745	9.225	19.23
Before	ID Elect Quad Offset 10 kHz MM/M	24.57	-279.1	20.94	320.9
Before	ID Elect Quad Gain 10 kHz	0.9739	0.8369	0.9869	1.181
Before	IM Elect Phase 10 kHz DEG	8.154	-1.166	8.834	18.83
Before	IM Elect Real Offset 10 kHz MM/M	81.61	-467.5	82.54	632.5
Before	IM Elect Real Gain 10 kHz	0.9308	0.8031	0.9531	1.134
Before	IM Elect Quad Offset 10 kHz MM/M	43.70	-506.2	43.79	593.8
Before	IM Elect Quad Gain 10 kHz	0.9146	0.7903	0.9403	1.116

Before: 21-FEB-2001 18:45

Dual Induction - E Wellsite Calibration

Induction Electronics (20 kHz)

Phase	Measurement	Value	Minimum	Nominal	Maximum
Before	ID Elect Real Offset 20 kHz MM/M	13.54	-111.7	13.30	138.3
Before	ID Elect Real Gain 20 kHz	0.9879	0.8456	0.9956	1.194
Before	ID Elect Phase 20 kHz DEG	7.443	-7.217	7.783	22.78
Before	ID Elect Quad Offset 20 kHz MM/M	9.912	-116.7	8.308	133.3
Before	ID Elect Quad Gain 20 kHz	1.0000	0.8568	1.007	1.210
Before	IM Elect Phase 20 kHz DEG	7.005	-7.866	7.134	22.13
Before	IM Elect Real Offset 20 kHz MM/M	31.69	-192.0	32.95	258.0
Before	IM Elect Real Gain 20 kHz	0.9532	0.8169	0.9669	1.153
Before	IM Elect Quad Offset 20 kHz MM/M	17.71	-207.5	17.51	242.5
Before	IM Elect Quad Gain 20 kHz	0.9364	0.8037	0.9537	1.135

Before: 21-FEB-2001 18:46

Dual Induction - E Wellsite Calibration

Induction Electronics (40 kHz)

Phase	Measurement	Value	Minimum	Nominal	Maximum
Before	ID Elect Real Offset 40 kHz MM/M	8.882	-76.21	8.795	93.79
Before	ID Elect Real Gain 40 kHz	0.9805	0.8403	0.9903	1.186
Before	ID Elect Phase 40 kHz DEG	23.86	3.750	23.75	43.75
Before	ID Elect Quad Offset 40 kHz MM/M	6.624	-79.47	5.533	90.53
Before	ID Elect Quad Gain 40 kHz	1.002	0.8595	1.009	1.213
Before	IM Elect Phase 40 kHz DEG	23.42	3.199	23.20	43.20
Before	IM Elect Real Offset 40 kHz MM/M	20.23	-109.0	21.03	151.0
Before	IM Elect Real Gain 40 kHz	0.9466	0.8111	0.9611	1.145
Before	IM Elect Quad Offset 40 kHz MM/M	11.34	-118.8	11.24	141.2
Before	IM Elect Quad Gain 40 kHz	0.9295	0.7976	0.9476	1.126

Before: 21-FEB-2001 18:47

Dual Induction - E Wellsite Calibration

SFL Electronics

Phase	SFL Voltage Offset MV	Value	Phase	SFL Voltage Gain	Value

Phase		Value
Before		0.1764
	-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)	

Phase		Value
Before		0.9995
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

Phase	SFL Current Offset MA	Value
Before		0.03801
	-0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)	

Phase	SFL Current Gain	Value
Before		1.011
	0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

Before: 21-FEB-2001 18:47

Dual Induction - E Wellsite Calibration

Electronics Calibration Changes Files/Depth Intervals: 4: 743.0 - 322.0

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

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

Phase	SFL (R < 1 OHM-M) OHMM	Value
After		0.0005938
	0 (Minimum) 0 (Nominal) 0.02000 (Maximum)	

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

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

Phase	SFL (R > 27 OHM-M) MM/M	Value
After		0.04858
	0 (Minimum) 0 (Nominal) 0.7500 (Maximum)	

Phase	SFL (R < 27 OHM-M) %	Value
After		0.0006709
	0 (Minimum) 0 (Nominal) 2.000 (Maximum)	

After: 21-FEB-2001 20:48

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
Master		1419
Before		1424
After		1414
	1000 (Minimum) 1645 (Nominal) 2290 (Maximum)	

Phase	SS HV Measured Bkg V	Value
Master		1065
Before		1064
After		1067
	800.0 (Minimum) 1100 (Nominal) 1400 (Maximum)	

Phase	SS PSC DAC Value Bkg	Value
Master		16520
Before		16380
After		16730
	14100 (Minimum) 16000 (Nominal) 20000 (Maximum)	

Phase	SS Cs Centroid Bkg KEV	Value
Master		661.3
Before		661.4
After		661.0
	656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)	

Phase	SS Cs Resolution Bkg %	Value
Master		8.550
Before		8.493
After		8.622
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LS Total Countrate Bkg CPS	Value
Master		1450
Before		1444
After		1446
	1000 (Minimum) 1645 (Nominal) 2290 (Maximum)	

Phase	LS HV Measured Bkg V	Value
Master		1183
Before		1185
After		1184
	800.0 (Minimum) 1100 (Nominal) 1400 (Maximum)	

Phase	LS PSC DAC Value Bkg	Value
Master		18100
Before		17900
After		18340
	14100 (Minimum) 16000 (Nominal) 20000 (Maximum)	

Phase	LS Cs Centroid Bkg KEV	Value
Master		661.2
Before		661.2
After		661.2
	656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)	

Phase	LS Cs Resolution Bkg %	Value
Master		8.791
Before		8.735
After		8.810
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LSW1 Background CPS	Value
Master		86.24
Before		86.22
After		85.27
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	LSW2 Background CPS	Value
Master		80.44
Before		80.03
After		79.75
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)	

Phase	LSW3 Background CPS	Value
Master		181.0
Before		176.5
After		177.7
110.0 (Minimum)	200.0 (Nominal)	290.0 (Maximum)

Phase	LSW4 Background CPS	Value
Master		216.8
Before		216.0
After		216.5
140.0 (Minimum)	250.0 (Nominal)	360.0 (Maximum)

Phase	LSW5 Background CPS	Value
Master		494.2
Before		496.4
After		495.1
330.0 (Minimum)	600.0 (Nominal)	830.0 (Maximum)

Phase	SSW1 Background CPS	Value
Master		86.80
Before		85.29
After		85.25
55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)

Phase	SSW2 Background CPS	Value
Master		155.9
Before		156.2
After		153.3
100.0 (Minimum)	200.0 (Nominal)	260.0 (Maximum)

Phase	SSW3 Background CPS	Value
Master		413.2
Before		414.0
After		411.1
280.0 (Minimum)	500.0 (Nominal)	700.0 (Maximum)

Phase	SSW4 Background CPS	Value
Master		220.1
Before		222.7
After		221.9
150.0 (Minimum)	270.0 (Nominal)	380.0 (Maximum)

Phase	SSW5 Background CPS	Value
Master		159.6
Before		161.2
After		160.0
110.0 (Minimum)	200.0 (Nominal)	270.0 (Maximum)

Master: 4-JAN-2001 10:08 Before: 11-JAN-2001 4:16 After: 21-FEB-2001 21:07

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
Master		31.57
Before		32.15
After		32.70
0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)

Phase	Far Det Bkg Cntrate CPS	Value
Master		32.42
Before		33.39
After		32.67
0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)

Phase	Array-1 Det Bkg Cntrate CPS	Value
Master		28.31
Before		28.68
After		30.09
0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)

Phase	Array-2 Det Bkg Cntrate CPS	Value
Master		30.16
Before		30.43
After		28.89
0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)

Phase	Array Therm Det Bkg Cntrate CPS	Value
Master		32.80
Before		32.25
After		32.50
0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)

Master: 23-DEC-2000 23:30 Before: 11-JAN-2001 4:18 After: 21-FEB-2001 21:08

Accelerator-Porosity Tool Wellsite Calibration

Calibration Ratios

Phase	Near/Far Calibration Ratio	Value

Phase	Near/Array Calibration Ratio	Value

Master	0.8976	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		40.74	After		15.53	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 DEGC	Value
Master		146.2	Master		9.591	Master		30.64
Before		146.5	Before		9.938	Before		32.47
After		145.5	After		9.824	After		30.45
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		20.68
15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 4-JAN-2001 11:08 Before: 11-JAN-2001 4:17 After: 21-FEB-2001 21:08

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		40.63	After		15.95	After		1196
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)

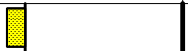
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		145.0	Master		7.793	Master		29.74
Before		143.8	Before		9.552	Before		31.41
After		145.0	After		9.414	After		29.99
135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		22.62
Before		22.43
After		21.03
15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

Master: 4-JAN-2001 11:08 Before: 11-JAN-2001 4:17 After: 21-FEB-2001 21:08

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		0.9841

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

Master: 4-JAN-2001 11:08

Before: 11-JAN-2001 4:17

After: 21-FEB-2001 21:08

COMPANY:	Lamont Doherty
WELL:	ODP Leg 194, Site 1199A
FIELD:	Marion Plateau
Country:	Australia
Ocean:	Pacific Ocean

BOTTOM LOG INTERVAL	742 m
SCHLUMBERGER DEPTH	743 m
DEPTH DRILLER	746.5 m
KELLY BUSHING	11.3 m
DRILL FLOOR	11 m
GROUND LEVEL	-327 m

Schlumberger

Phasor Induction-Natural GR