

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: None OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
--	---

REMARKS: RUN NUMBER 1 Hole Cored With APC/XCB. All depths in Meters Below Rig Floor (MBRF). Hole flushed with Sepiolite/Barite Mud. Sae Floor Driller- 1314.6 MBRF. Sea Floor Logger- 1313 MBRF. Total Depth Driller- 1614.6 MBRF. Total Depth Logger- 1602 MBRF. Casing Bottom Driller- 1387 MBRF. Casing Bottom Logger- 1385 MBRF.	REMARKS: RUN NUMBER 2
---	-----------------------

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION: 12C0-301			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
GSR-U/Y 166 WITM (DTS)-A			

DOWNHOLE EQUIPMENT			
LEH-QT			34.17
LEH-QT 1726			
DTC-H	CTEM		33.01
ECH-KC	TelStatus		33.28
	ToolStatu		32.37
SGT-N	Gamma Ray		32.09
SGH-K 2450			32.37

SGC-TB 9585

AH-MCD
AH-MCD

30.69

DSST-B
SPAC-B 8128
ECH-SD 8128
SMDR-BD 8076
SSIJ-BA 8127
SMDX-AA 8148

28.57

PWF — 13.02

AH-MCD
AH-MCD

13.02

DTA-A
ECH-KE

10.74

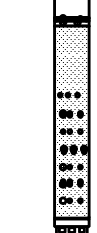
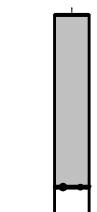
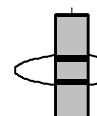
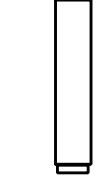
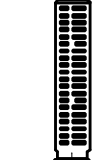
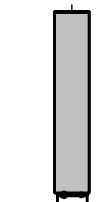
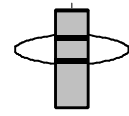
DIT-E
DIC-EB 438
MIH-ZA
DIS-HB 442

9.52

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

TOOL ZERO

MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS



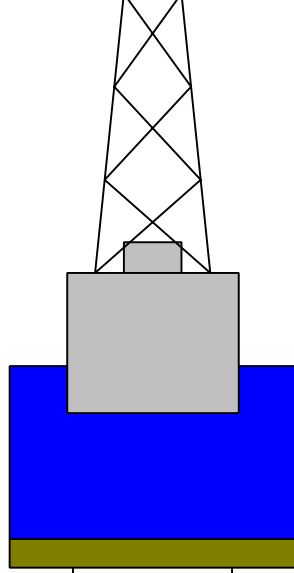
Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OD	ID		MD	OD	

Kelly Bushing Elevation
 Derrick Floor Elevation

 Mean Sea Level

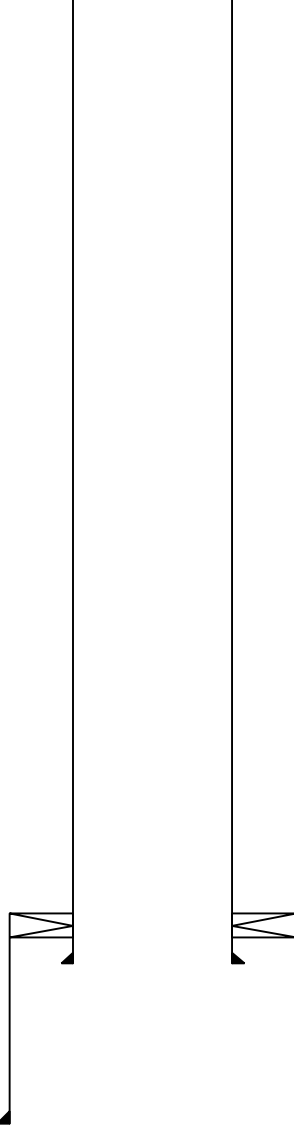
11.3
 11.0

 0.0



0.0 5.500

Casing String



1314.6 9.875
1387.6 ~~5.500~~ 9.875

 1614.6 9.875

Casing String
~~Casing String~~

 Casing Shoe

Schlumberger

Main Up Log

MAXIS Field Log

Output DLIS Files

DEFAULT	PI_DSI_007LUP	FN:6	PRODUCER	10-Oct-2005 22:37	1602.8 M	1262.3 M
---------	---------------	------	----------	-------------------	----------	----------

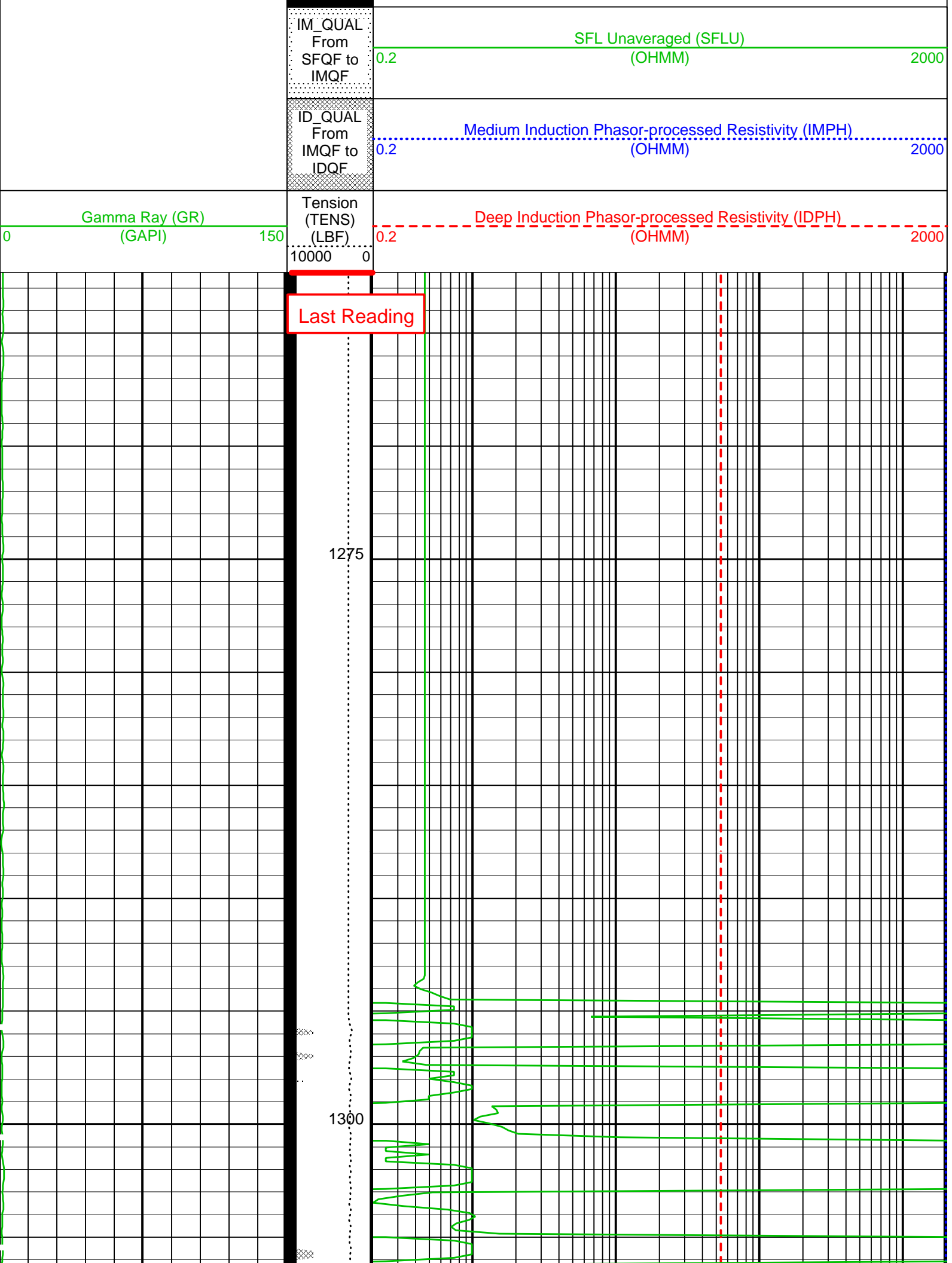
OP System Version: 12C0-301
MCM

DIT-E	12C0-301	DTA-A	12C0-301
DSST-B	12C0-301	SGT-N	12C0-301
DTC-H	12C0-301		

PIP SUMMARY

▶ Time Mark Every 60 S

SFL_
QUAL
From D3T
to SFQF



IM_QUAL
From
SFQF to
IMQF

0.2

SFL Unaveraged (SFLU)
(OHMM)

2000

ID_QUAL
From
IMQF to
IDQF

0.2

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

2000

Gamma Ray (GR)
(GAPI)

0

150

Tension
(TENS)
(LBF)

0.2

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

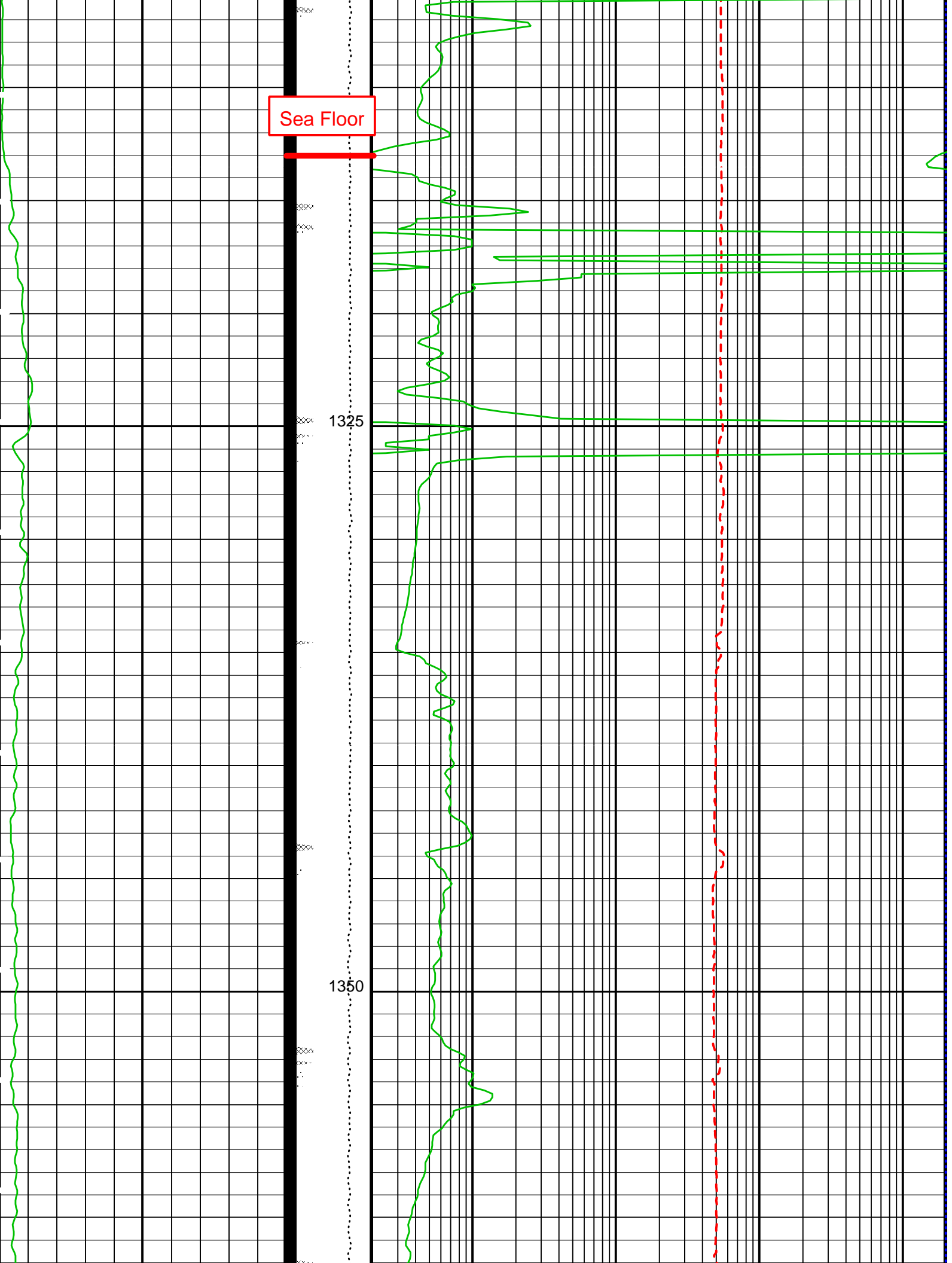
2000

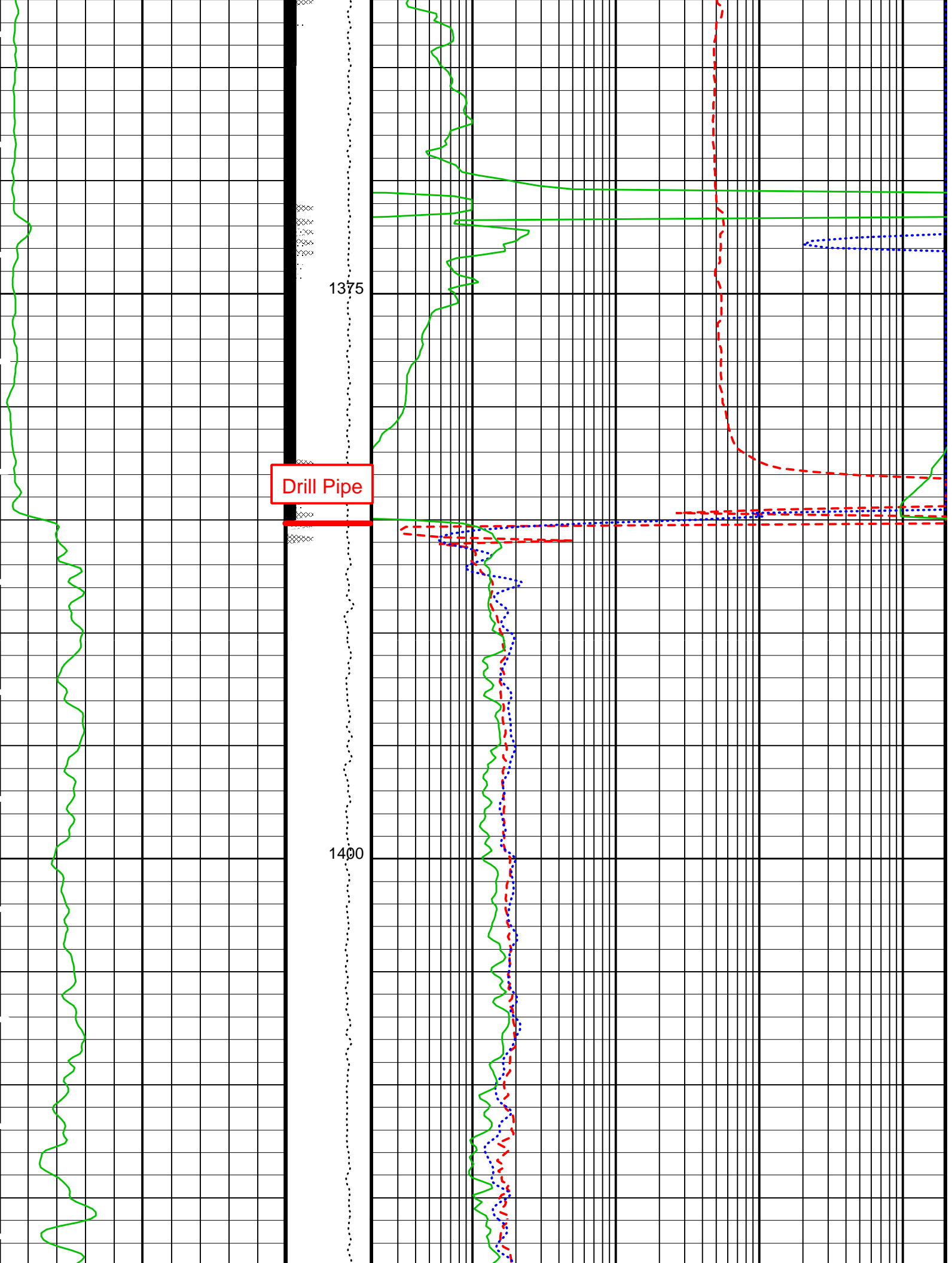
10000 0

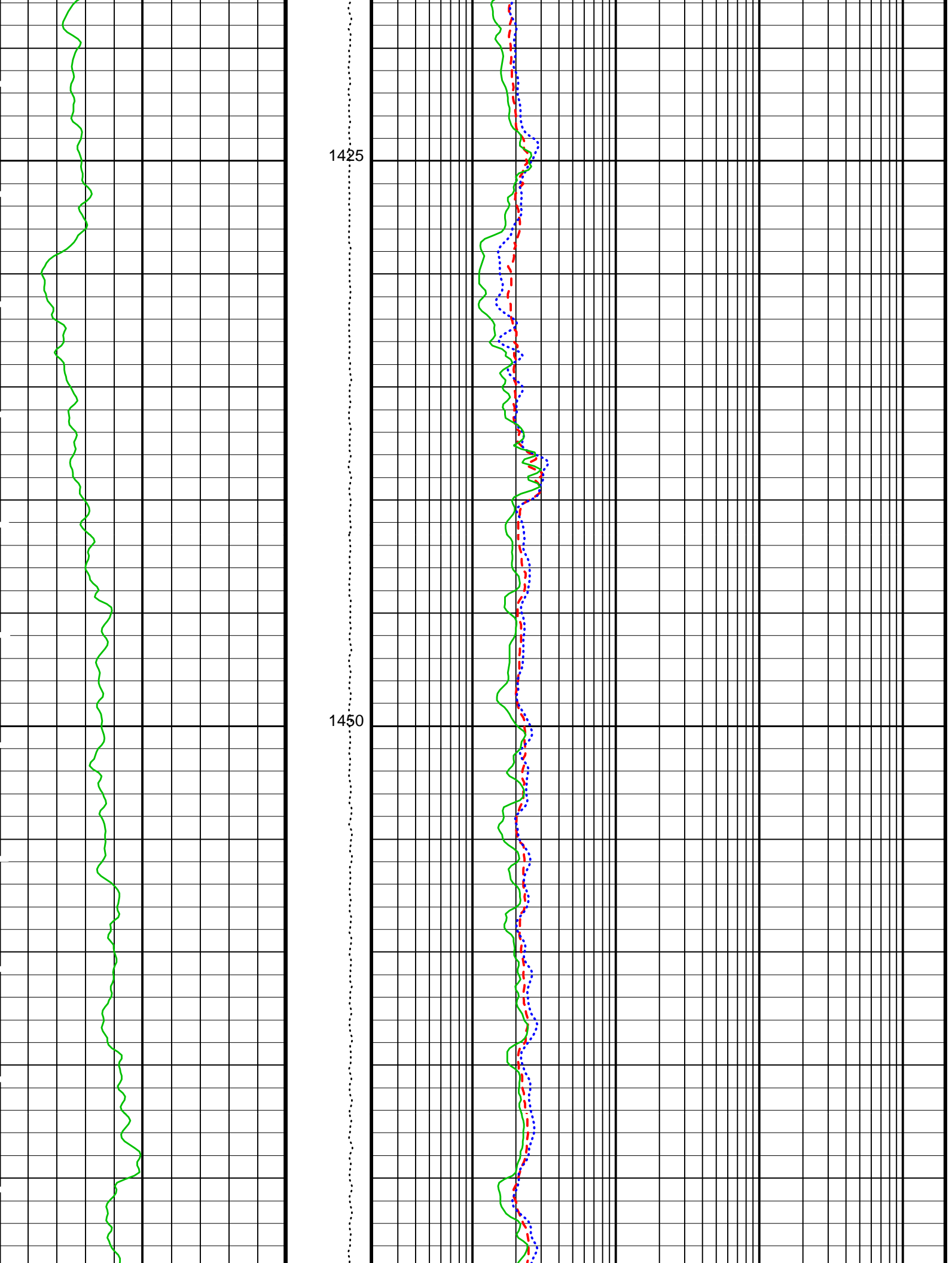
Last Reading

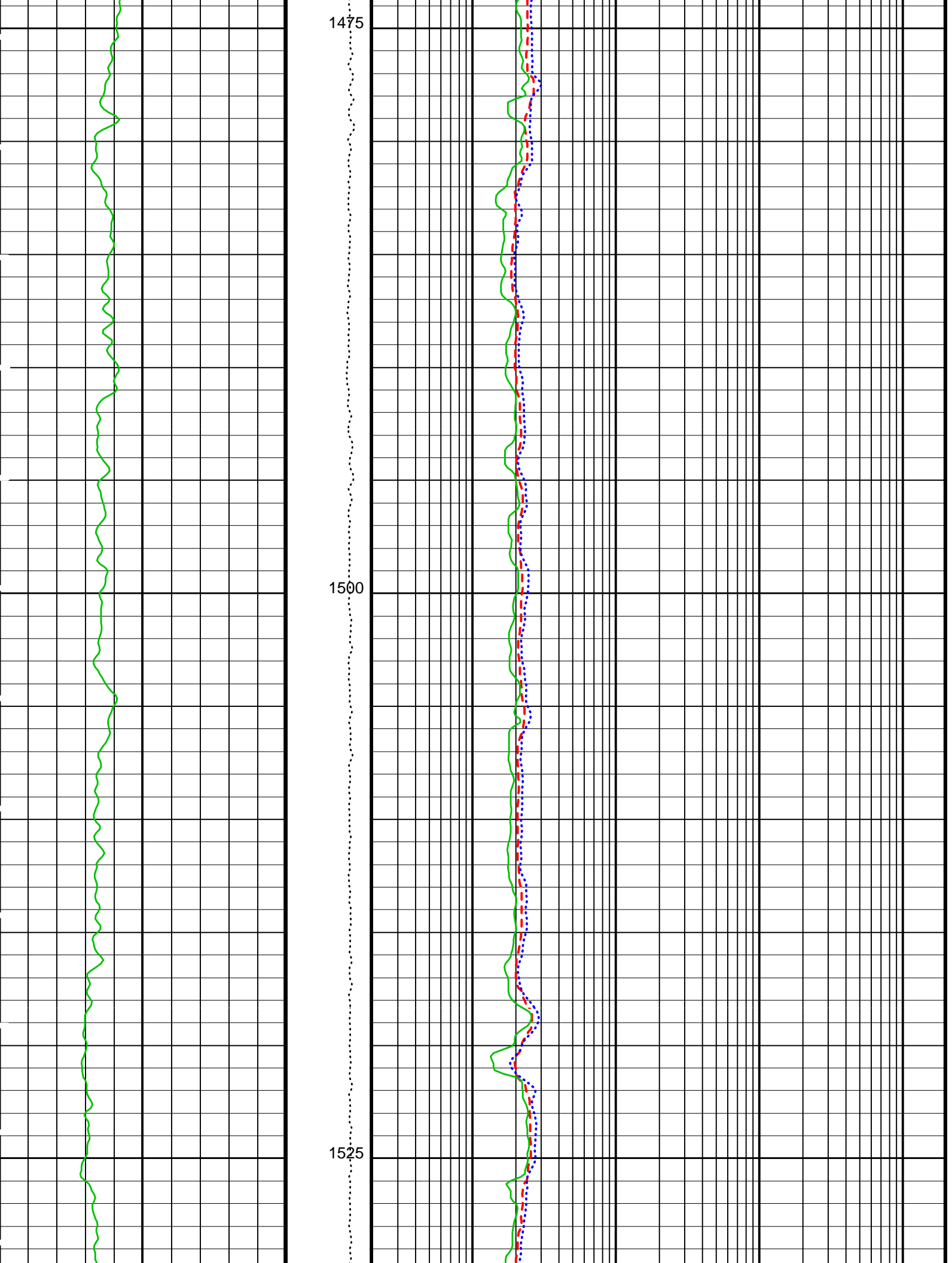
1275

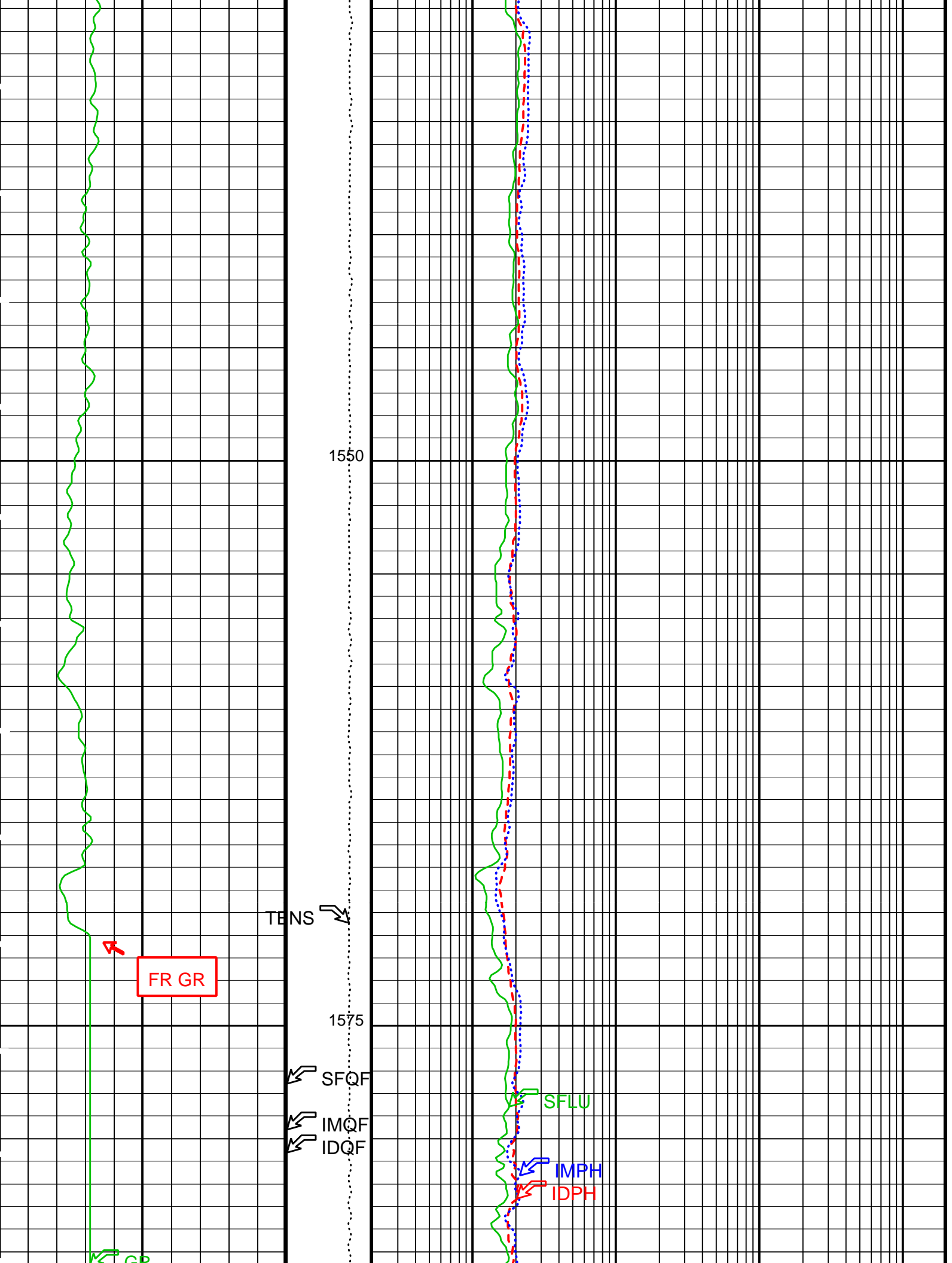
1300











FR GR

TENS

1575

SFQF

IMQF

IDQF

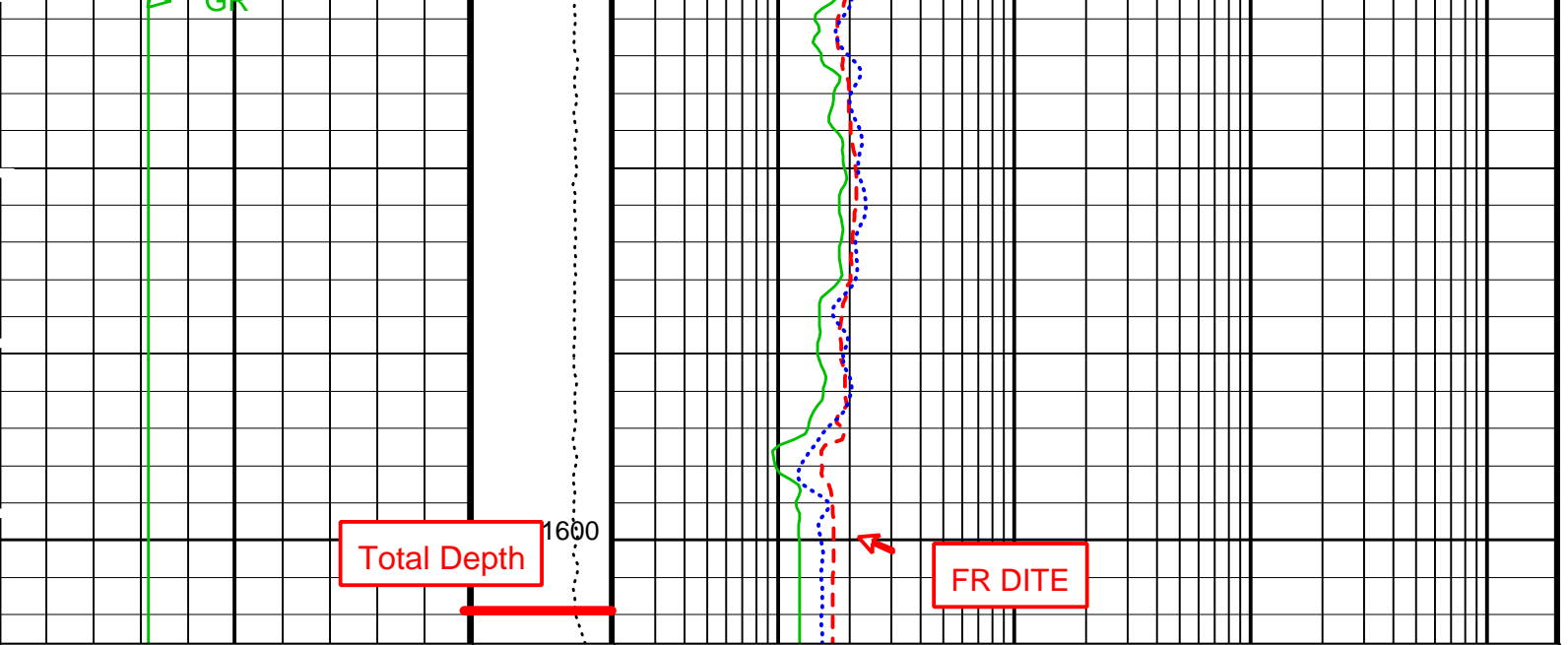
SFLU

IMPH

IDPH

1550

CP



Gamma Ray (GR) (GAPI)	150	Tension (TENS) (LBF)	10000	0	Deep Induction Phasor-processed Resistivity (IDPH) (OHMM)	0.2	2000
		ID_QUAL From IMQF to IDQF			Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)	0.2	2000
		IM_QUAL From SFQF to IMQF			SFL Unaveraged (SFLU) (OHMM)	0.2	2000
		SFL_QUAL From D3T to SFQF					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DIT-E: Dual Induction - E			
BHT	Bottom Hole Temperature (used in calculations)	16	DEGC
DGF2	Deep 20 kHz Gain Factor	1.02064	
DPH2	Deep 20 kHz Phase Shift	-0.243728	DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	16.6208	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	64.8082	MM/M
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
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	
MGF2	Medium 20 kHz Gain Factor	1	
MPH2	Medium 20 kHz Phase Shift	0	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	-2.31932	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	-31.8992	MM/M
SFCR	SFL Channel Ratio	1000	
SHT	Surface Hole Temperature	20	DEGC
DSST-B: Dipole Shear Imager - B			
BHT	Bottom Hole Temperature (used in calculations)	16	DEGC
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	

SHT	SGT-N: Scintillation Gamma-Ray - N	Surface Hole Temperature	20	DEGC
BHT		Bottom Hole Temperature (used in calculations)	16	DEGC
GDEV		Average Angular Deviation of Borehole from Normal	0	DEG
GGRD		Geothermal Gradient	0.018227	DC/M
GTSE		Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT		Surface Hole Temperature	20	DEGC
	System and Miscellaneous			
DFD		Drilling Fluid Density	1.07	G/C3
TD		Total Depth	1614.6	M

Format: DITE_LogPhasor Vertical Scale: 1:200 Graphics File Created: 10-Oct-2005 22:37

OP System Version: 12C0-301
MCM

DIT-E	12C0-301	DTA-A	12C0-301
DSST-B	12C0-301	SGT-N	12C0-301
DTC-H	12C0-301		

Output DLIS Files

DEFAULT PI_DSI_007LUP FN:6 PRODUCER 10-Oct-2005 22:37



Repeat Up Log

MAXIS Field Log

Output DLIS Files

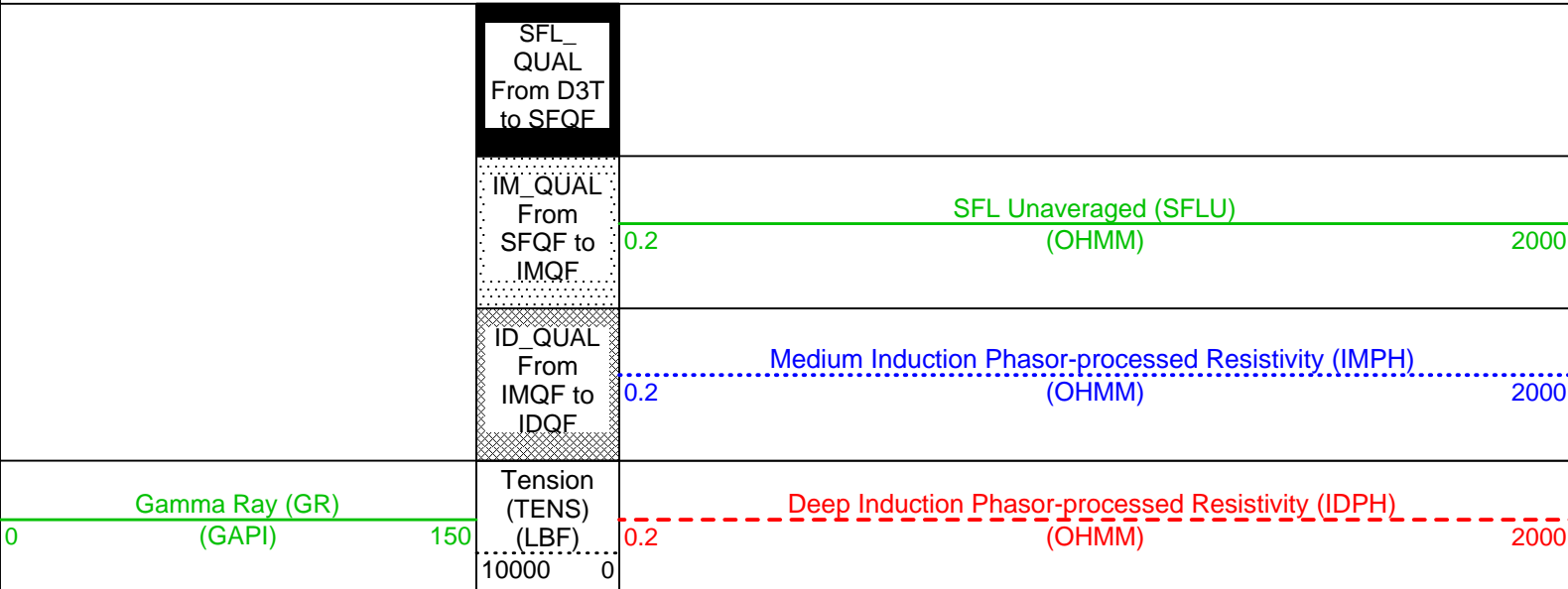
DEFAULT PI_DSI_008LUP FN:7 PRODUCER 11-Oct-2005 00:04 1601.7 M 1459.2 M

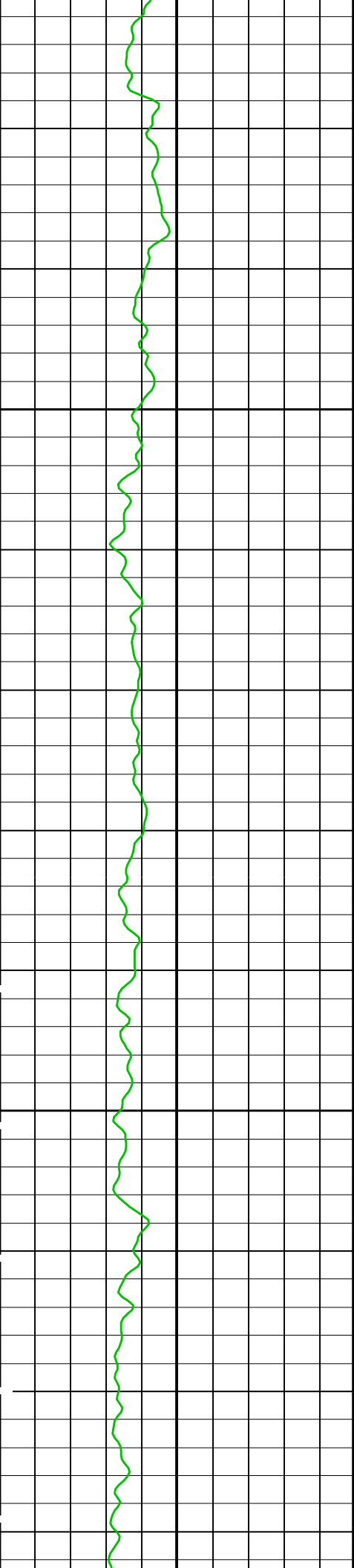
OP System Version: 12C0-301
MCM

DIT-E	12C0-301	DTA-A	12C0-301
DSST-B	12C0-301	SGT-N	12C0-301
DTC-H	12C0-301		

PIP SUMMARY

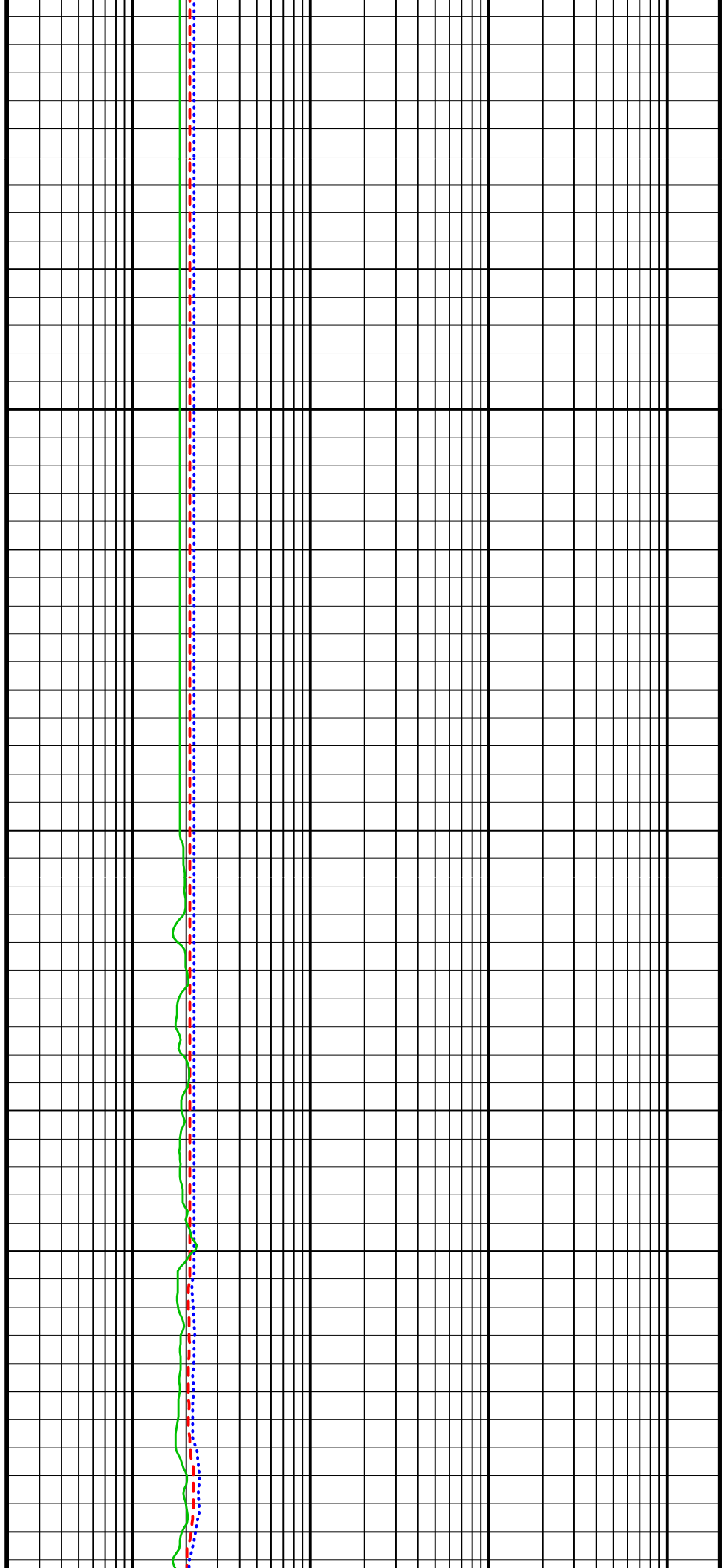
▶ Time Mark Every 60 S

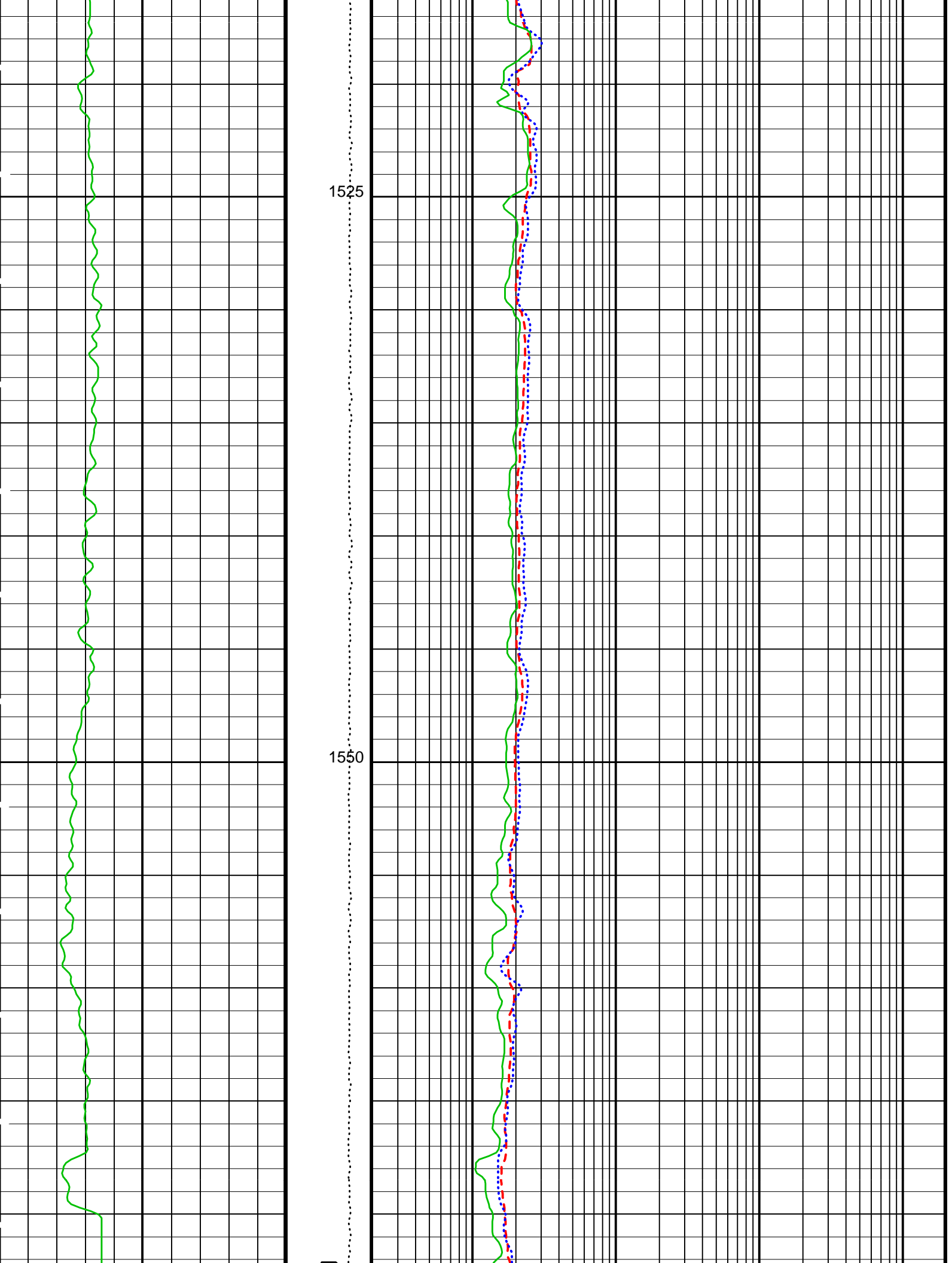




1475

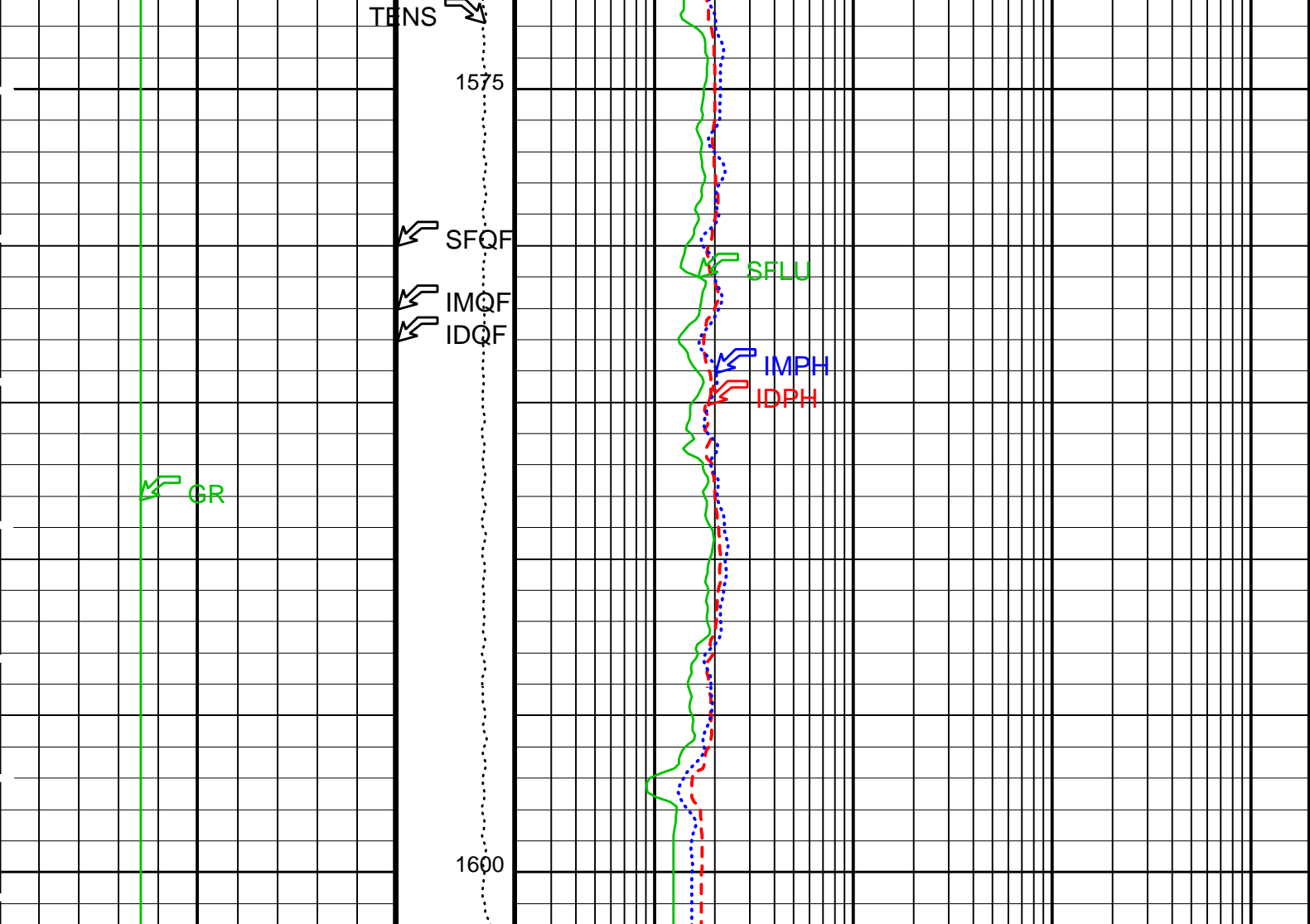
1500





1525

1550



Gamma Ray (GR) (GAPI)	0	150	Tension (TENS) (LBF)	0.2	2000
			10000	0	
ID_QUAL From IMQF to IDQF			0.2	2000	2000
IM_QUAL From SFQF to IMQF			0.2	2000	2000
SFL_QUAL From D3T to SFQF			0.2	2000	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DIT-E: Dual Induction - E			
BHT	Bottom Hole Temperature (used in calculations)	16	DEGC
DGF2	Deep 20 kHz Gain Factor	1.02064	
DPH2	Deep 20 kHz Phase Shift	-0.243728	DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	16.6208	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	64.8082	MM/M

GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
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	
MGF2	Medium 20 kHz Gain Factor	1	
MPH2	Medium 20 kHz Phase Shift	0	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	-2.31932	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	-31.8992	MM/M
SFCR	SFL Channel Ratio	1000	
SHT	Surface Hole Temperature	20	DEGC
DSST-B: Dipole Shear Imager - B			
BHT	Bottom Hole Temperature (used in calculations)	16	DEGC
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
SGT-N: Scintillation Gamma-Ray - N			
BHT	Bottom Hole Temperature (used in calculations)	16	DEGC
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
System and Miscellaneous			
DFD	Drilling Fluid Density	1.07	G/C3
TD	Total Depth	1614.6	M

Format: DITE_LogPhasor Vertical Scale: 1:200 Graphics File Created: 11-Oct-2005 00:04

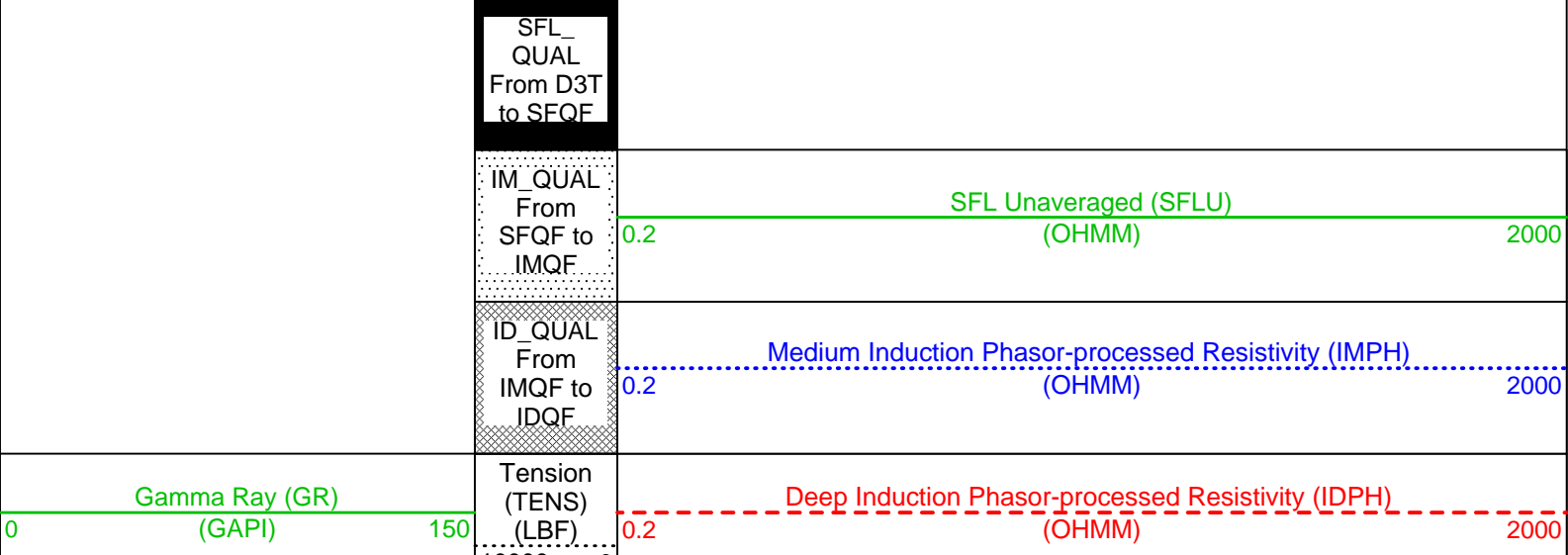
OP System Version: 12C0-301			
MCM			
DIT-E	12C0-301	DTA-A	12C0-301
DSST-B	12C0-301	SGT-N	12C0-301
DTC-H	12C0-301		

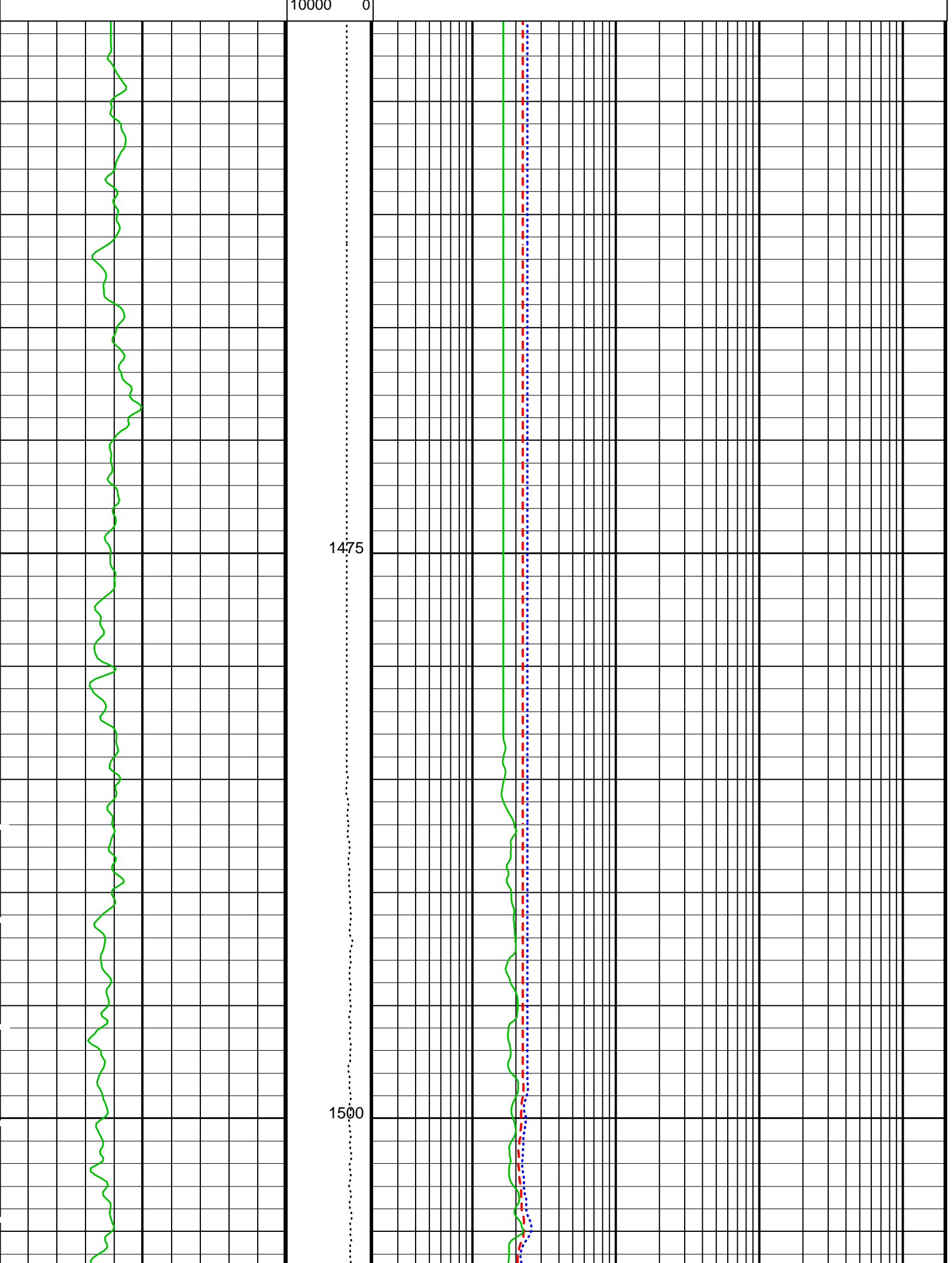
Output DLIS Files			
DEFAULT	PI_DSI_008LUP	FN:7	PRODUCER 11-Oct-2005 00:04

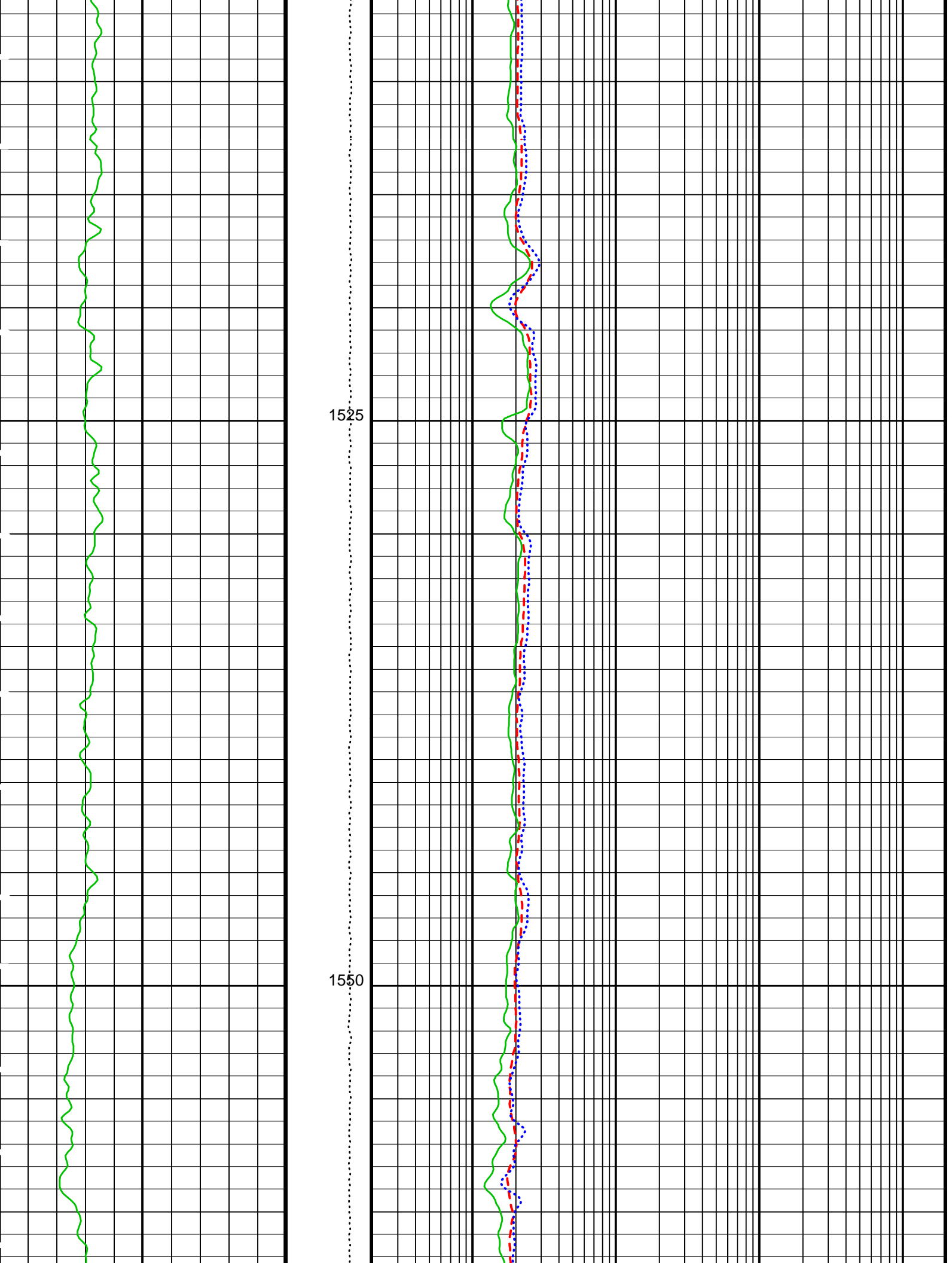
Output DLIS Files			
DEFAULT	PI_DSI_009LUP	FN:8	PRODUCER 11-Oct-2005 00:29 1597.0 M 1451.5 M
OP System Version: 12C0-301			
MCM			
DIT-E	12C0-301	DTA-A	12C0-301
DSST-B	12C0-301	SGT-N	12C0-301
DTC-H	12C0-301		

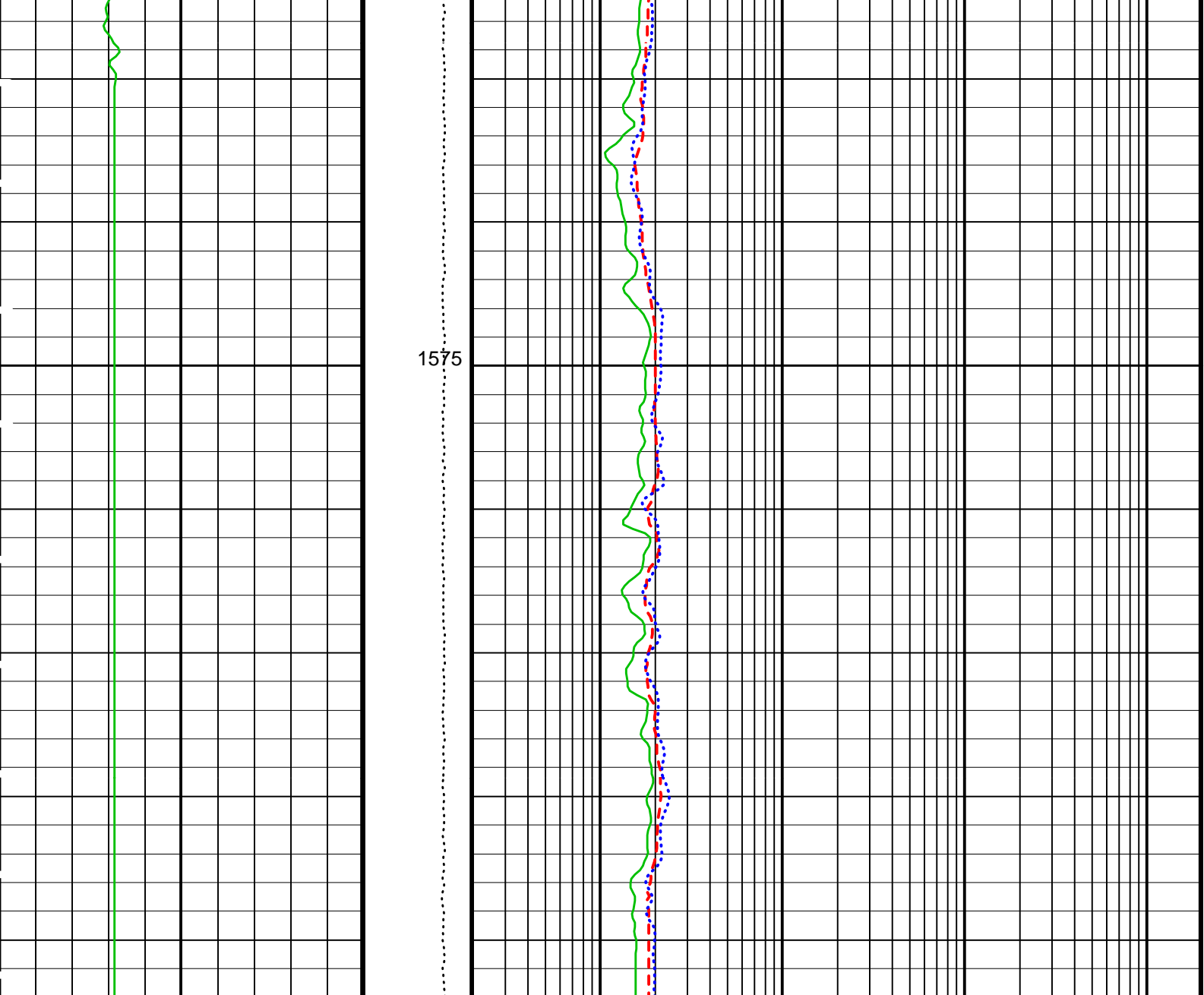
PIP SUMMARY

▶ Time Mark Every 60 S









Gamma Ray (GR) (GAPI)	Tension (TENS) (LBF)	Deep Induction Phasor-processed Resistivity (IDPH) (OHMM)
0 150	10000 0	0.2 2000
	ID_QUAL From IMQF to IDQF	Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)
	IM_QUAL From SFQF to IMQF	SFL Unaveraged (SFLU) (OHMM)
	SFL_QUAL From D3T to SFQF	0.2 2000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
-----------	-------------	-------

DIT-E: Dual Induction - E				
BHT	Bottom Hole Temperature (used in calculations)	16		DEGC
DGF2	Deep 20 kHz Gain Factor	1.02064		
DPH2	Deep 20 kHz Phase Shift	-0.243728		DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	16.6208		MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843		MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	64.8082		MM/M
GDEV	Average Angular Deviation of Borehole from Normal	0		DEG
GGRD	Geothermal Gradient	0.018227		DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
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		
MGF2	Medium 20 kHz Gain Factor	1		
MPH2	Medium 20 kHz Phase Shift	0		DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	-2.31932		MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250		MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	-31.8992		MM/M
SFCR	SFL Channel Ratio	1000		
SHT	Surface Hole Temperature	20		DEGC
DSST-B: Dipole Shear Imager - B				
BHT	Bottom Hole Temperature (used in calculations)	16		DEGC
GDEV	Average Angular Deviation of Borehole from Normal	0		DEG
GGRD	Geothermal Gradient	0.018227		DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT	Surface Hole Temperature	20		DEGC
SGT-N: Scintillation Gamma-Ray - N				
BHT	Bottom Hole Temperature (used in calculations)	16		DEGC
GDEV	Average Angular Deviation of Borehole from Normal	0		DEG
GGRD	Geothermal Gradient	0.018227		DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT	Surface Hole Temperature	20		DEGC
System and Miscellaneous				
DFD	Drilling Fluid Density	1.07		G/C3
TD	Total Depth	1614.6		M

Format: DITE_LogPhasor Vertical Scale: 1:200 Graphics File Created: 11-Oct-2005 00:29

OP System Version: 12C0-301
MCM

DIT-E	12C0-301	DTA-A	12C0-301
DSST-B	12C0-301	SGT-N	12C0-301
DTC-H	12C0-301		

Output DLIS Files

DEFAULT	PI_DSI_009LUP	FN:8	PRODUCER	11-Oct-2005 00:29
---------	---------------	------	----------	-------------------



Calibrations

MAXIS Field Log

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
Scintillation Gamma-Ray - N Wellsite Calibration - Detector Calibration							
Before: 21-Sep-2005 10:13							
Gamma Ray (Jig - Bkg)	158.5	N/A	158.5	N/A	N/A	14.41	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Before			25.76	Before			1.026
	-130.0 (Minimum)	0 (Nominal)	130.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

Before: 8-Oct-2005 2:18

Dual Induction - E Wellsite Calibration							
SFL Electronics							
Phase	SFL Voltage Offset MV	Value	Phase	SFL Voltage Gain	Value		
Before		1.174	Before		1.013		
	-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		0.008108	Before		0.9923		
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

Before: 8-Oct-2005 2:19

Scintillation Gamma-Ray - N / Equipment Identification

Primary Equipment:

Scintillation Gamma Cartridge
Scintillation Gamma Detector

SGC - TB 9585
SGD - TAA

Auxiliary Equipment:

Scintillation Gamma Housing
Gamma Source Radioactive

SGH - K 2450
GSR - U/Y 166

Scintillation Gamma-Ray - N Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value			
Before		3.498	Before		158.5	Before		165.0			
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		144.1 (Minimum)	158.5 (Nominal)	173.0 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 21-Sep-2005 10:13

Company: Lamont Doherty

Schlumberger

Well: IODP EXP 311 U1327E

Field: CAS-01B

Country: Canada

Ocean: Pacific

Phasor Induction