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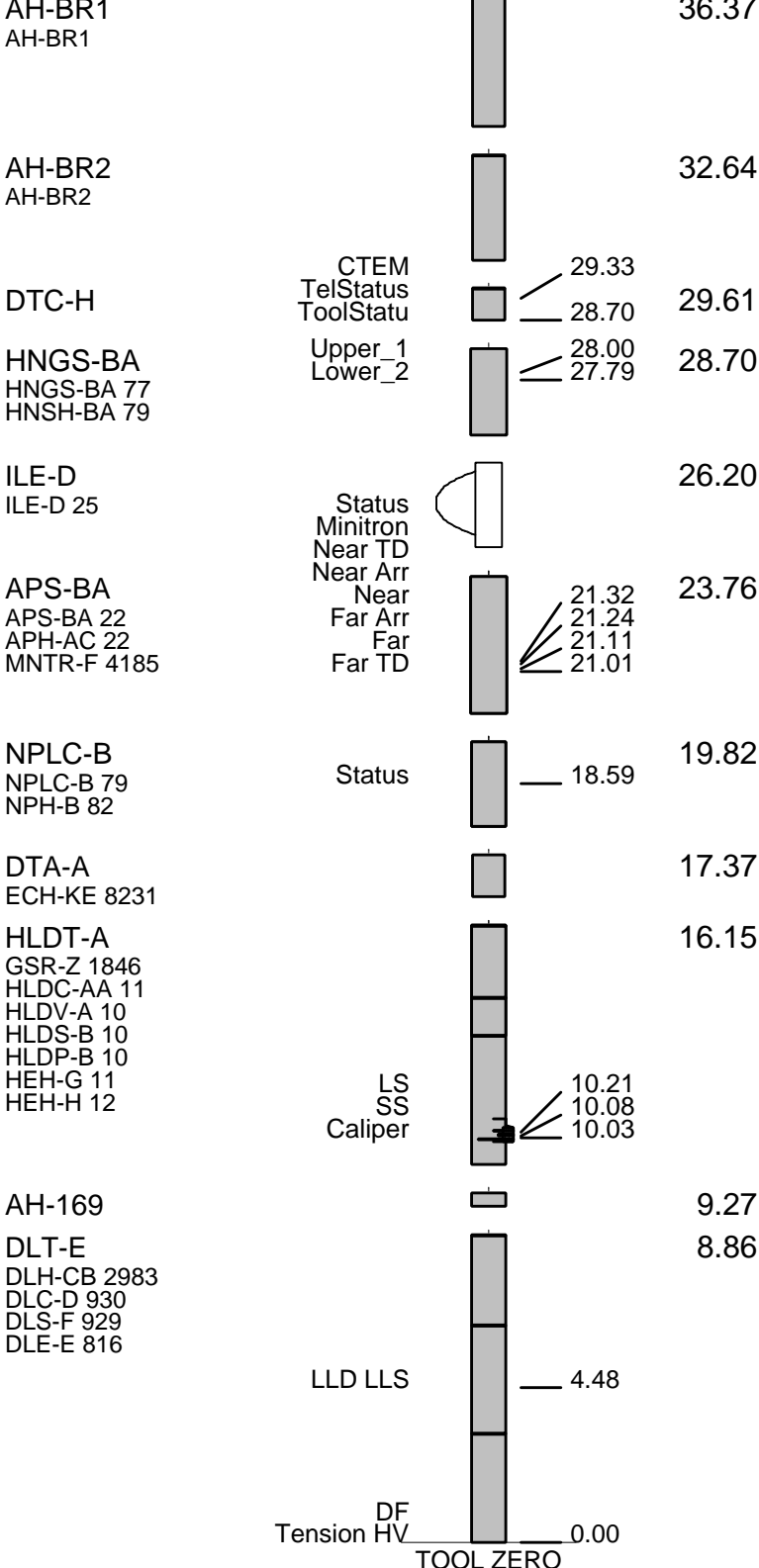
OTHER SERVICES1 OS1: OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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REMARKS: RUN NUMBER 1 Hole cored with RCB All depths in Meters Below Rig Floor (MBRF). Sepiolite mud was used. WHC was run. Sea Floor- 3645.4 MBRF Total Depth Driller-3985.7 MBRF. Total Depth Logger-3956 MBRF. Drill Pipe Driller- 3757.4 MBRF. Drill Pipe Logger Run #1- 3753 Drill Pipe Logger Run #2- 3951 MBRF. Sea Floor Logger- Unable to pick.	REMARKS: RUN NUMBER 2
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RUN 1			RUN 2		
SERVICE ORDER #:	10C0-306		SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

**EQUIPMENT DESCRIPTION**

RUN 1		RUN 2	
<b>SURFACE EQUIPMENT</b> LCM-AA 909 SFT-281 24 SFT-178 4722 GSR-U 135 WITM (DTS)-A			
<b>DOWNHOLE EQUIPMENT</b>			
BSP BRT-S		61.64	
SP SPARC		40.59	
LEH-QT		37.26	



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

### Output DLIS Files

DEFAULT	DLL_LDL_APS_NGS_036LUP	FN:40	PRODUCER	22-Nov-2002 03:36	3847.3 M	3618.7 M
DLL_CUST	DLL_LDL_APS_NGS_036LUP	FN:41	PRODUCER	22-Nov-2002 03:36	3847.3 M	3617.5 M

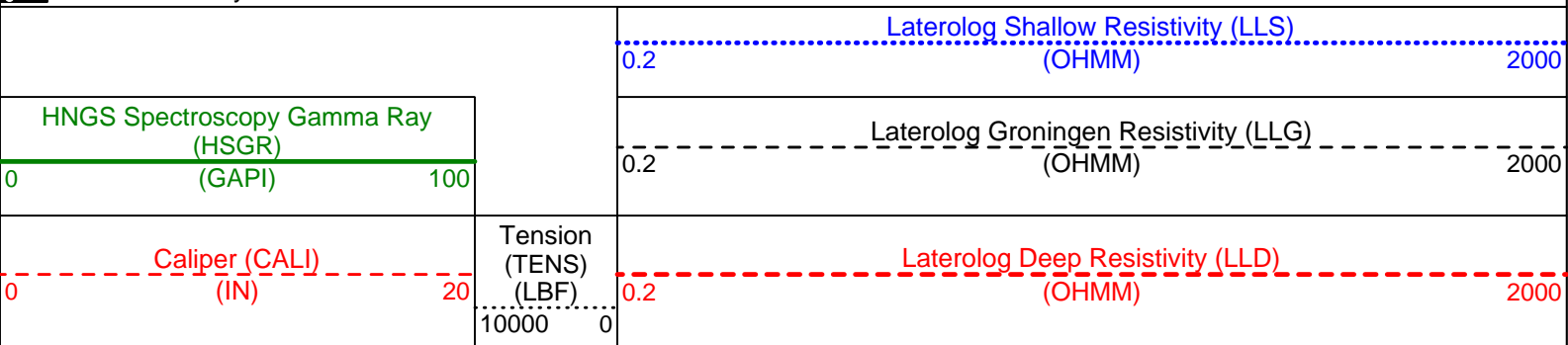
OP System Version: 10C0-306  
MCM

**MAIN UP LOG**

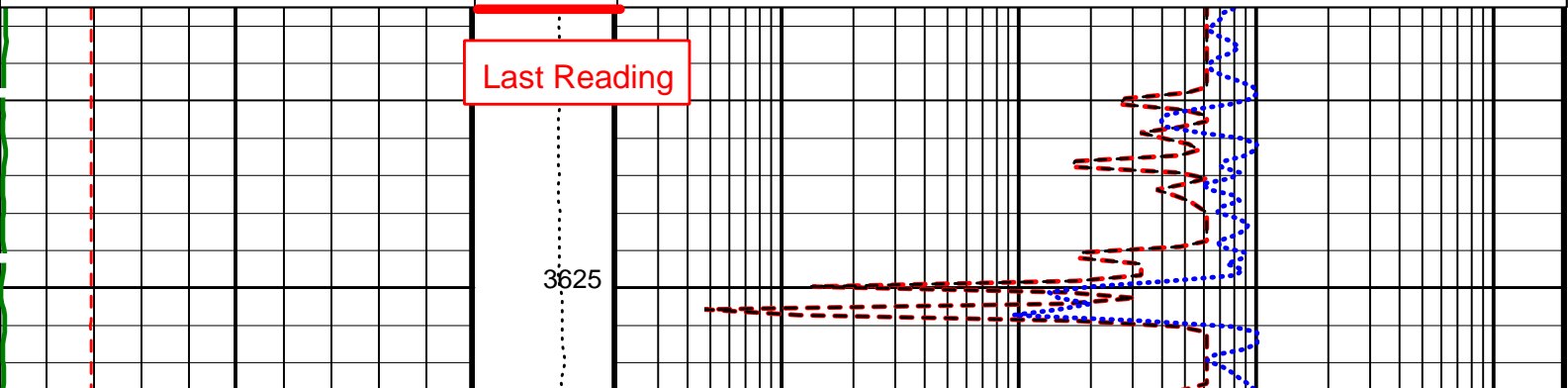
DLT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	OP10-KP1
APS-BA	OP10-KP1	HNGS-BA	OP10-KP1
DTC-H	10C0-306	BSP	10C0-306

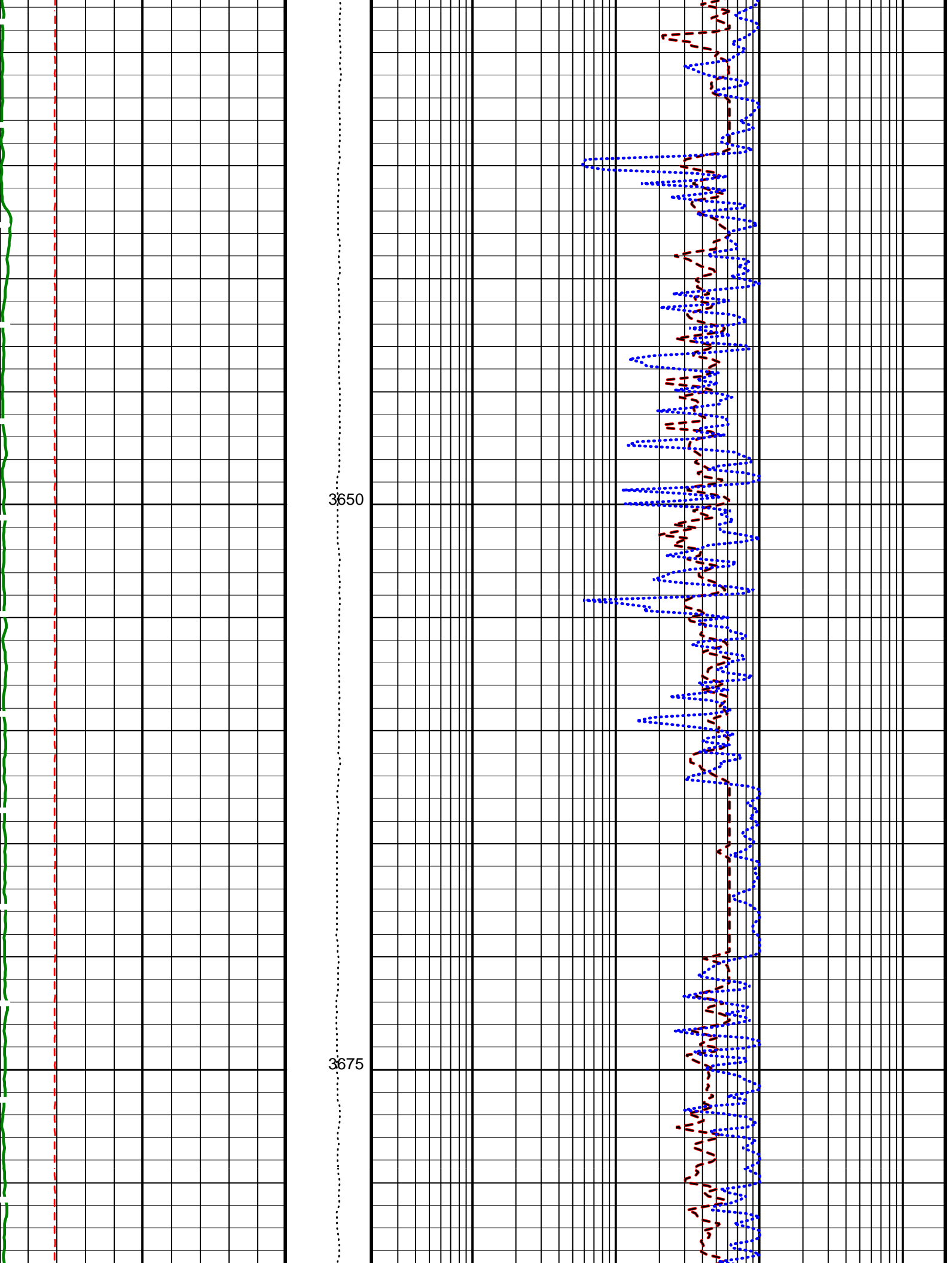
### PIP SUMMARY

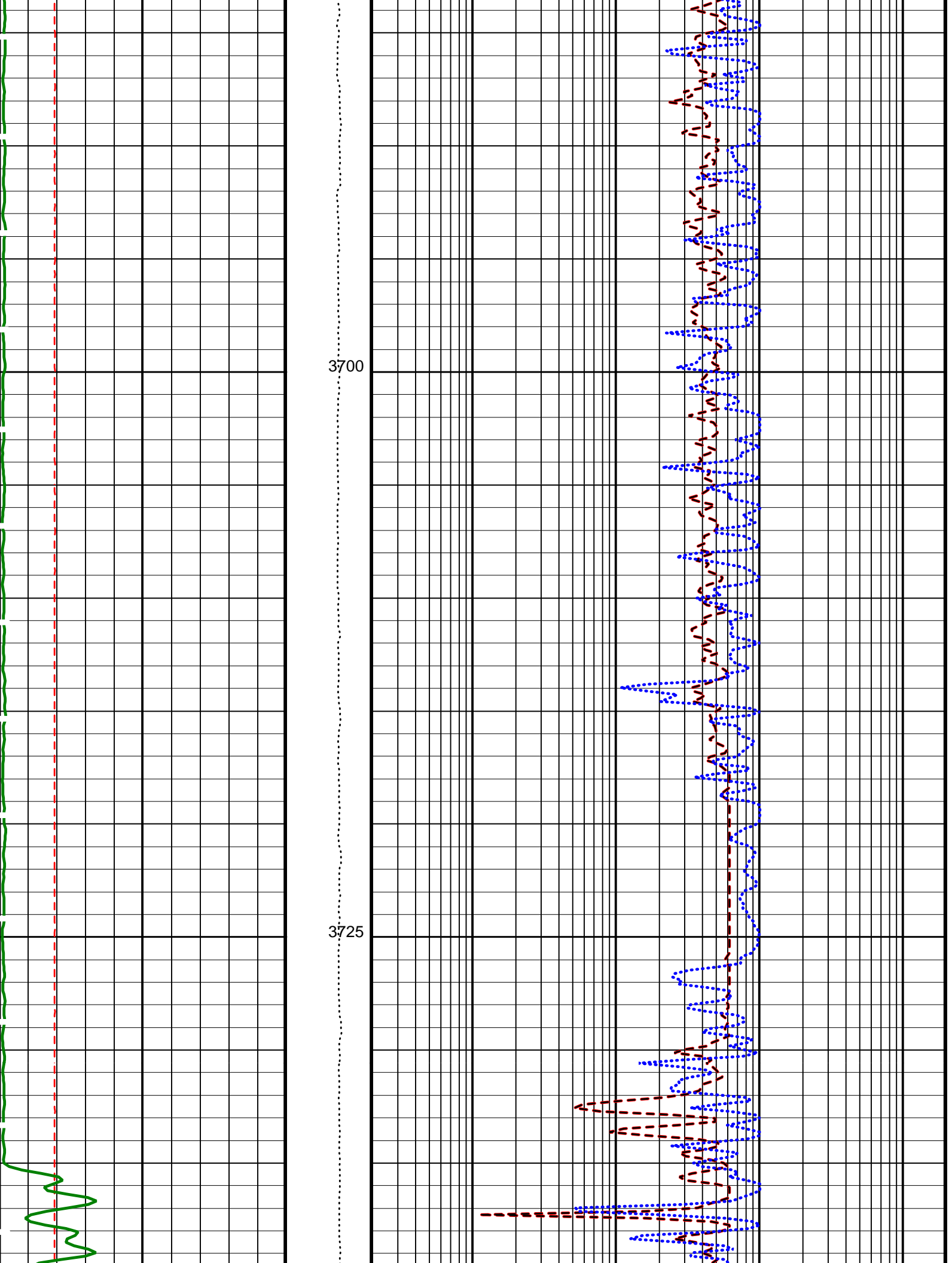
Time Mark Every 60 S

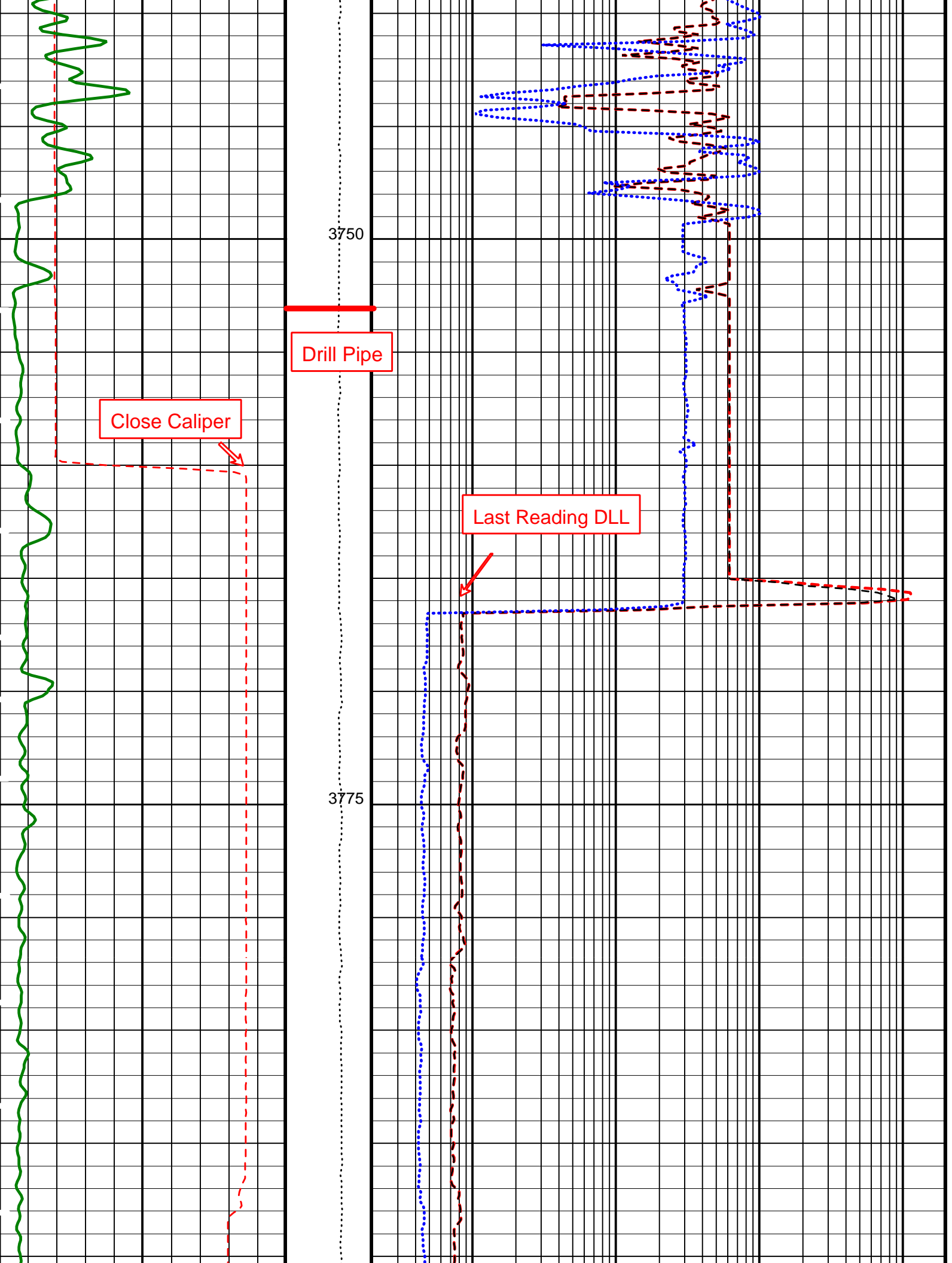


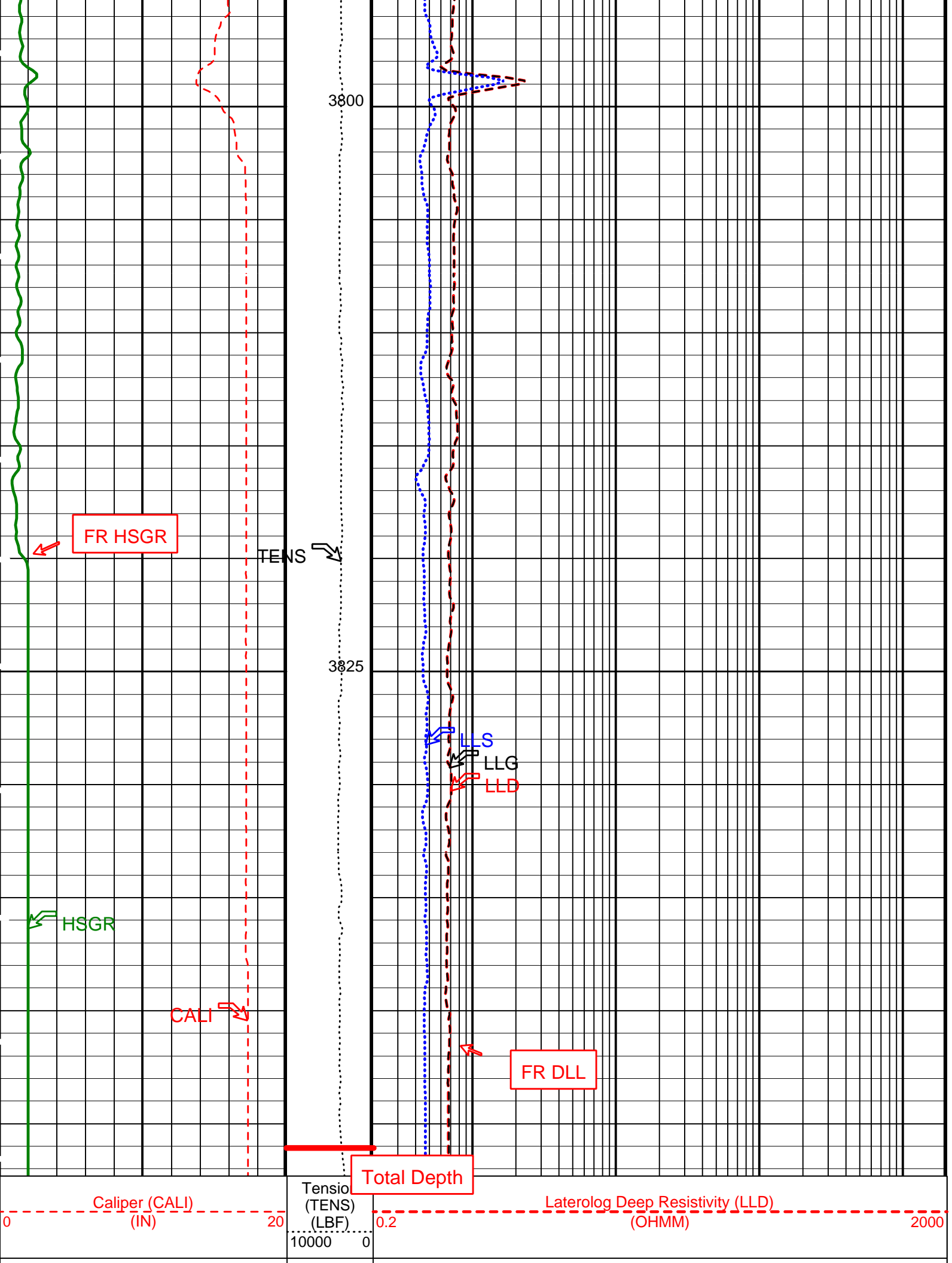
Last Reading













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

0.2	Laterolog Groning Resistivity (LLG) (OHMM)	2000
0.2	Laterolog Shallow Resistivity (LLS) (OHMM)	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DLT-E: DUAL LATEROLOG - E		
DPRF	DEEP REFERENCE POWER	550 NW
KFAC	K FACTOR	SOND
LLOO	LATEROLOG LOOP	OFF
PLRM	POWER LOOP REFERENCE MODE	DEEP
SPRF	SHALLOW REFERENCE POWER	550 NW
APS-BA: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	CALI
HNGS-BA: Hostile Natural Gamma Ray Sonde		
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
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
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	CALI
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00223479
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.02936
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.28817
System and Miscellaneous		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.07 G/C3

Format: DLL\_Logrith Vertical Scale: 1:200 Graphics File Created: 22-Nov-2002 03:36

OP System Version: 10C0-306  
MCM

DLT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	OP10-KP1
APS-BA	OP10-KP1	HNGS-BA	OP10-KP1
DTC-H	10C0-306	BSP	10C0-306

Output DLIS Files

DEFAULT	DLL_LDL_APS_NGS_036LUP	FN:40	PRODUCER	22-Nov-2002 03:36
DLL_CUST	DLL_LDL_APS_NGS_036LUP	FN:41	PRODUCER	22-Nov-2002 03:36

Output DLIS Files

DEFAULT	DLL_LDL_APS_NGS_040LUP	FN:48	PRODUCER	22-Nov-2002 11:45	3961.6 M	3802.3 M
DLL_CUST	DLL_LDL_APS_NGS_040LUP	FN:49	PRODUCER	22-Nov-2002 11:45	3961.6 M	3802.3 M

OP System Version: 10C0-306  
MCM

**MAIN UP LOG**

DLT-E	10C0-306	HLDT-A	10C0-306
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DTA-E	10C0-306	NEDT-A	10C0-306
APS-BA	10C0-306	NPLC-B	OP10-KP1
DTC-H	OP10-KP1	HNGS-BA	OP10-KP1
	10C0-306	BSP	10C0-306

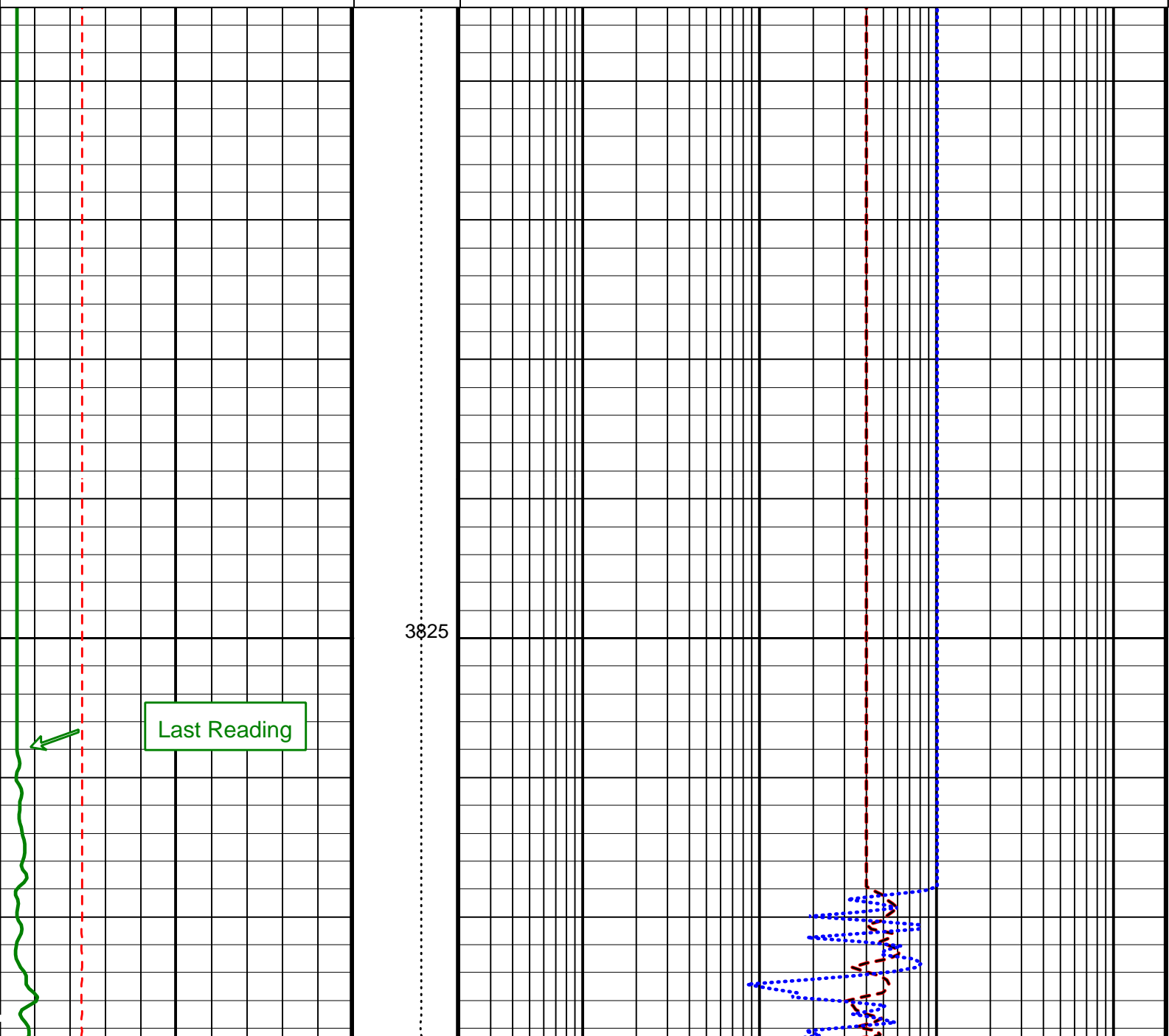
## Changed Parameter Summary

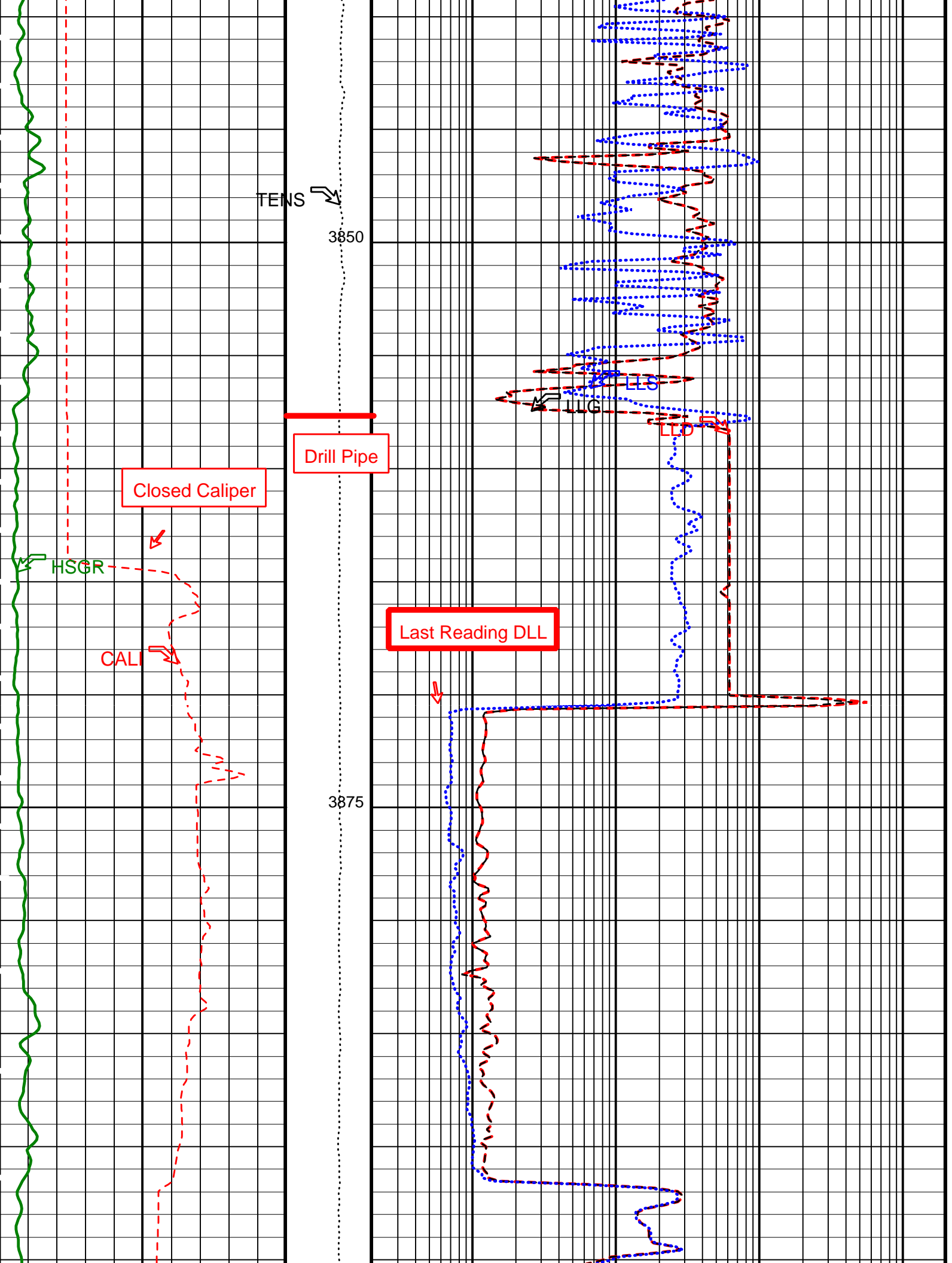
DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	CALI	3869.5 12:12:10

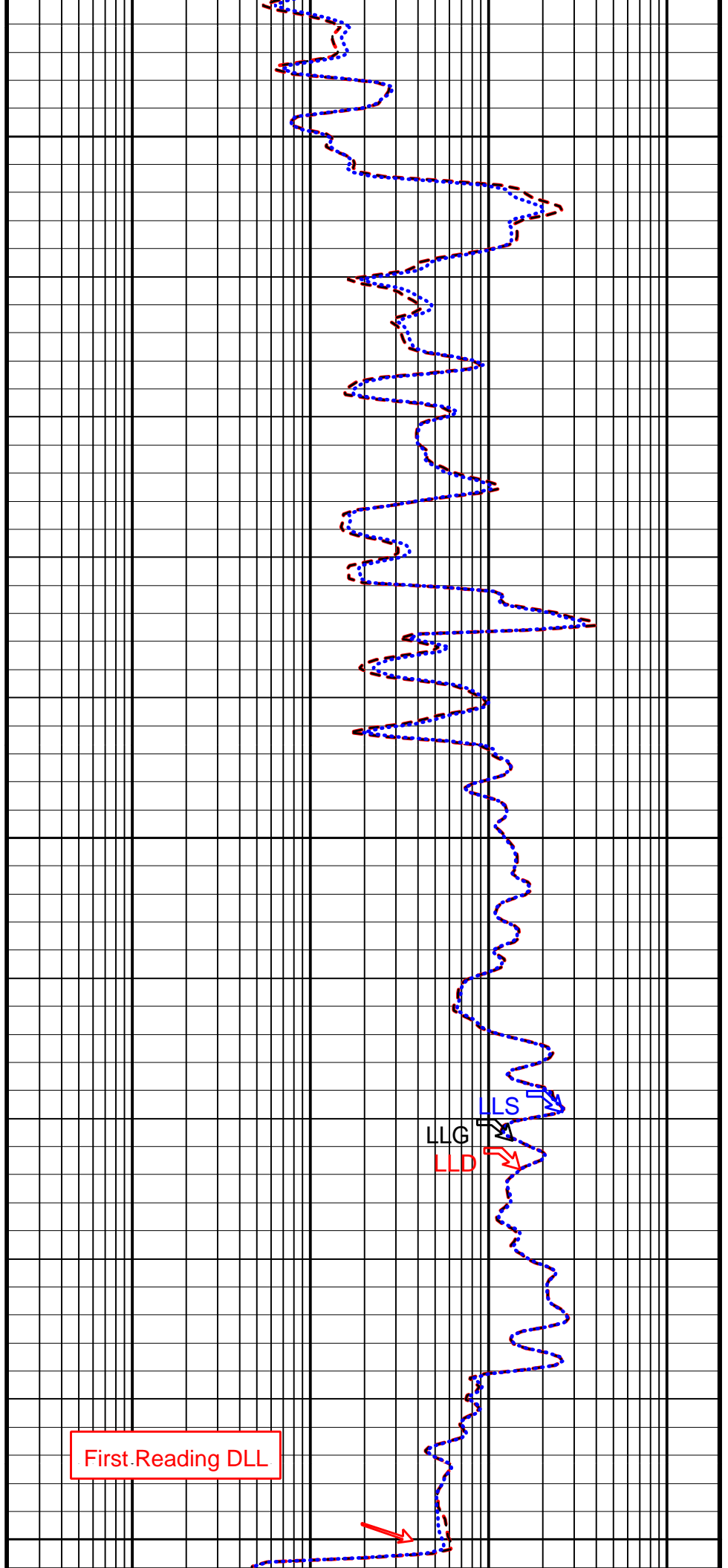
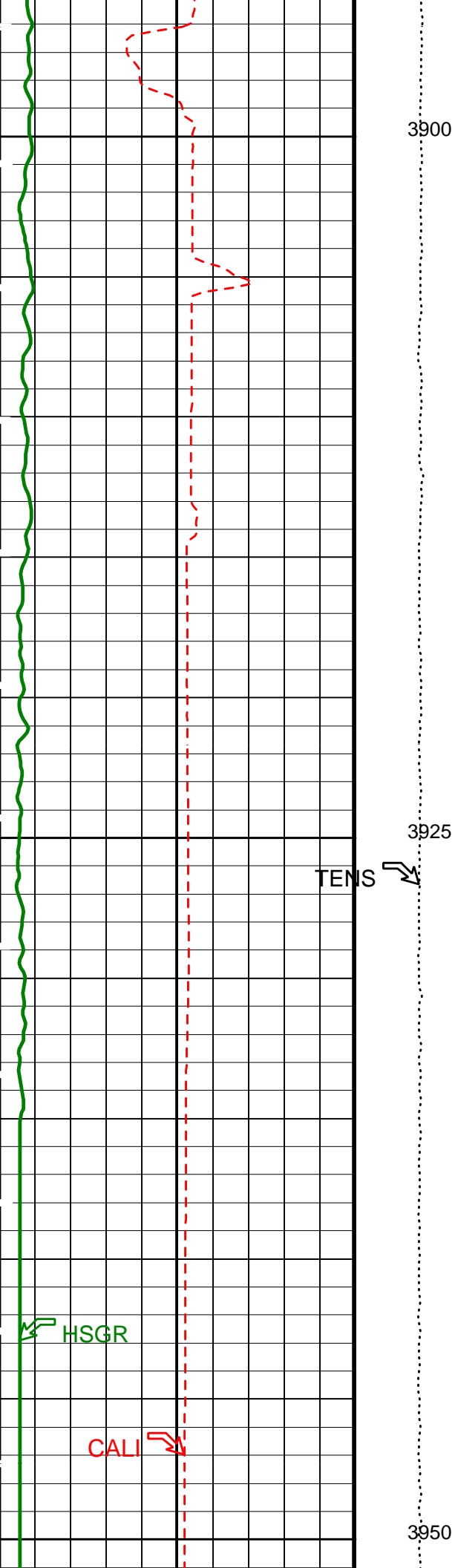
### PIP SUMMARY

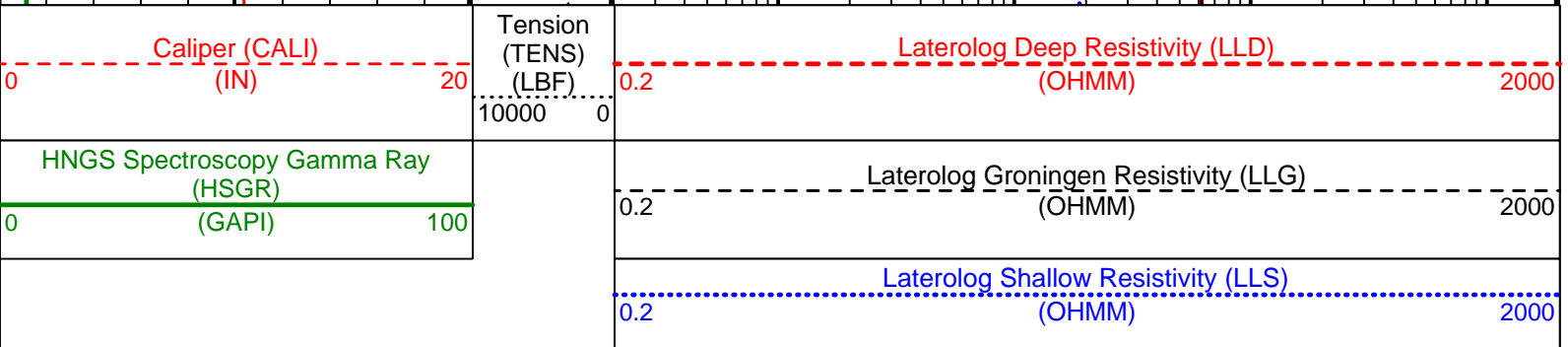
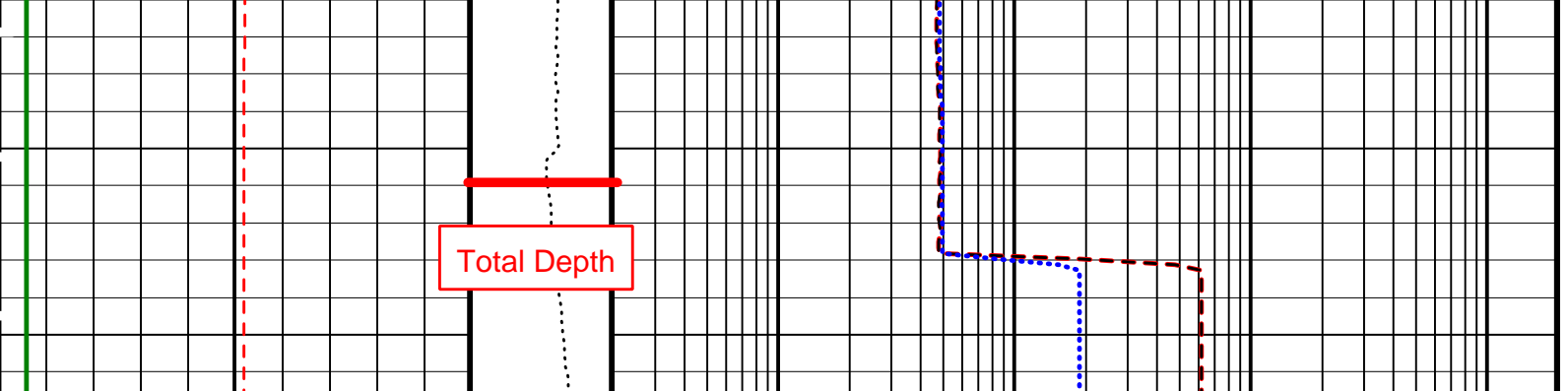
Time Mark Every 60 S

		<span style="color: blue;">Laterolog Shallow Resistivity (LLS)</span> <span style="color: blue;">(OHMM)</span>	2000
<span style="color: green;">HNGS Spectroscopy Gamma Ray</span> <span style="color: green;">(HSGR)</span> <span style="color: green;">(GAPI)</span>	0	100	
		<span style="color: black;">Laterolog Groningen Resistivity (LLG)</span> <span style="color: black;">(OHMM)</span>	2000
<span style="color: red;">Caliper (CALI)</span> <span style="color: red;">(IN)</span>	0	20	
	<span style="color: black;">Tension</span> <span style="color: black;">(TENS)</span> <span style="color: black;">(LBF)</span>	10000	0
		<span style="color: red;">Laterolog Deep Resistivity (LLD)</span> <span style="color: red;">(OHMM)</span>	2000









PIP SUMMARY

Time Mark Every 60 S

### Parameters

DLIS Name	Description	Value
DLT-E: DUAL LATEROLOG - E		
DPRF	DEEP REFERENCE POWER	550 NW
KFAC	K FACTOR	SOND
LLOO	LATEROLOG LOOP	OFF
PLRM	POWER LOOP REFERENCE MODE	DEEP
SPRF	SHALLOW REFERENCE POWER	550 NW
APS-BA: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	CALI
HNGS-BA: Hostile Natural Gamma Ray Sonde		
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
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
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	CALI
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.0089739
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.833538
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.846703
System and Miscellaneous		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.07 G/C3

Format: DLL\_Logrith

Vertical Scale: 1:200

Graphics File Created: 22-Nov-2002 11:45

### OP System Version: 10C0-306

MCM

DLT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	OP10-KP1
APS-BA	OP10-KP1	HNGS-BA	OP10-KP1

## Output DLIS Files

DEFAULT	DLL_LDL_APS_NGS_040LUP	FN:48	PRODUCER	22-Nov-2002 11:45
DLL_CUST	DLL_LDL_APS_NGS_040LUP	FN:49	PRODUCER	22-Nov-2002 11:45

## Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
DUAL LATEROLOG - E Wellsite Calibration - DLT ELECTRONICS CALIBRATION Laterolog Measurement							
Before: 22-Nov-2002 2:09 After: 22-Nov-2002 12:35							
MEASURED LLD	31.62	N/A	31.96	31.97	0.01619	0.9000	OHMM
MEASURED LLS	31.62	N/A	31.04	31.20	0.1608	0.9000	OHMM
Hostile Environment Litho Density - A Wellsite Calibration - Background Measurement							
Master: Calibration out of date 10-Aug-2002 15:41 Before: 14-Nov-2002 16:50 After: 22-Nov-2002 13:56							
LSW1 Background	100.0	87.71	86.85	86.77	-0.08182	3.000	CPS
LSW2 Background	105.0	92.23	90.00	90.54	0.5426	3.150	CPS
LSW3 Background	210.0	178.9	173.1	176.5	3.388	6.300	CPS
LSW4 Background	290.0	237.2	232.7	234.7	1.967	8.700	CPS
LSW5 Background	610.0	515.8	517.2	517.0	-0.2044	18.30	CPS
SSW1 Background	100.0	85.59	83.68	83.62	-0.06425	3.000	CPS
SSW2 Background	200.0	165.7	164.0	162.8	-1.217	6.000	CPS
SSW3 Background	530.0	437.0	433.7	435.1	1.404	15.90	CPS
SSW4 Background	280.0	232.7	229.5	230.6	1.076	8.400	CPS
SSW5 Background	205.0	174.6	172.9	172.3	-0.6157	6.150	CPS
Hostile Environment Litho Density - A Wellsite Calibration - Tool Quality Control Information High Voltage							
Master: Calibration out of date 10-Aug-2002 15:41 Before: 14-Nov-2002 16:50 After: 22-Nov-2002 13:56							
LS Bkg. High Voltage	1131	1131	1131	1136	5.150	N/A	V
SS Bkg. High Voltage	1175	1175	1180	1178	-2.048	N/A	V
Hostile Environment Litho Density - A Wellsite Calibration - Detectors Resolution From BKG Measurements							
Master: Calibration out of date 10-Aug-2002 15:41 Before: 14-Nov-2002 16:50 After: 22-Nov-2002 13:56							
LS Background Resolution	1.000	1.033	1.034	1.029	-0.004187	N/A	
SS Background Resolution	1.000	0.9460	0.9539	0.9494	-0.004513	N/A	
Hostile Environment Litho Density - A Wellsite Calibration - Caliper Calibration							
Before: 14-Nov-2002 16:55							
Caliper Small Ring	12.00	N/A	16.98	N/A	N/A	N/A	IN
Caliper Large Ring	15.00	N/A	21.03	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 14-Sep-2002 2:44 Before: 14-Nov-2002 16:15 After: 22-Nov-2002 13:48							
Near Det Bkg Cntrate	30.00	32.07	33.13	33.05	-0.08309	N/A	CPS
Far Det Bkg Cntrate	30.00	32.26	31.56	32.06	0.4987	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.47	29.09	28.56	-0.5316	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.06	30.65	29.08	-1.578	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.24	34.16	31.31	-2.851	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 14-Sep-2002 2:44							
Near/Far Calibration Ratio	0.9250	0.8936	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.057	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.010	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration - Tank Check							
Master: 14-Sep-2002 2:44							
Array-1 Standoff Porosity	11.75	11.34	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.40	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.887	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9786	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9907	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.97	N/A	N/A	N/A	N/A	CU
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 13-Sep-2002 20:26 Before: 14-Nov-2002 16:14 After: 22-Nov-2002 13:49							
Na 511 Peak Loc	40.00	40.54	40.62	40.53	-0.08590	1.000	
Na 511 Peak Res	15.50	16.41	16.78	15.78	-0.9977	2.000	%
High Voltage	1150	1213	1211	1214	3.375	30.00	V
Na 1785 Peak Loc	142.6	145.3	145.6	145.6	0.02748	7.000	
Na 1785 Peak Res	8.500	9.453	9.390	9.317	-0.07258	2.000	%
Temperature	15.50	25.85	32.34	29.84	-2.494	N/A	DEGC

Temperature	29.09	29.09	29.09	29.09	29.09	29.09	29.09	29.09
Na Count Rate	45.00	49.09	46.08	45.90	-0.1786	8.000	CPS	
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check								
Master: 13-Sep-2002 20:26 Before: 14-Nov-2002 16:14 After: 22-Nov-2002 13:49								
Na 511 Peak Loc	40.00	40.59	40.60	40.46	-0.1348	1.000		
Na 511 Peak Res	15.50	16.13	16.57	17.32	0.7454	2.000	%	
High Voltage	1150	1241	1238	1242	3.824	30.00	V	
Na 1785 Peak Loc	142.6	145.1	143.6	144.9	1.294	7.000		
Na 1785 Peak Res	8.500	9.614	9.986	8.846	-1.140	2.000	%	
Temperature	15.50	25.04	31.77	30.12	-1.646	N/A	DEGC	
Na Count Rate	45.00	48.66	45.54	45.55	0.01714	8.000	CPS	

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2								
Master: 13-Sep-2002 20:26 Before: 14-Nov-2002 16:14 After: 22-Nov-2002 13:49								
Coincidence Count Rate Ratio	1.000	1.009	1.012	1.008	-0.004193	0.05000		

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting	1728 V
Far Detector Plateau Setting	2073 V
Array Detector Plateau Setting	1958 V

DUAL LATEROLOG - E / Equipment Identification

Primary Equipment:

Auxiliary Equipment:

Dual Laterolog Electrode	DLE - E	816
Dual Laterolog Sonde	DLS - F	929
Dual Laterolog Housing	DLH - CB	2983
Dual Laterolog Cartridge	DLC - D	930
Laterolog Control Module	LCM - AA	909

DUAL LATEROLOG - E Wellsite Calibration					
DLT ELECTRONICS CALIBRATION Laterolog Measurement					
Phase	MEASURED LLD OHMM	Value	Phase	MEASURED LLS OHMM	Value
Before		31.96	Before		31.04
After		31.97	After		31.20
	29.00 (Minimum) 31.62 (Nominal) 40.00 (Maximum)			29.00 (Minimum) 31.62 (Nominal) 40.00 (Maximum)	
Before: 22-Nov-2002 2:09			After: 22-Nov-2002 12:35		

DUAL LATEROLOG - E Wellsite Calibration									
DLT Electronics Calibration Plus Measurement									
Phase	Deep Current Plus UA	Value	Phase	Deep Voltage Plus MV	Value	Phase	Groningen Voltage Plus MV	Value	
Before		341.2	Before		10.90	Before		11.38	
After		341.2	After		10.91	After		11.39	
	317.5 (Minimum) 342.5 (Nominal) 367.5 (Maximum)			9.830 (Minimum) 10.83 (Nominal) 11.83 (Maximum)			9.830 (Minimum) 10.83 (Nominal) 11.83 (Maximum)		
Phase	Shallow Current Plus UA	Value	Phase	Shallow Voltage Plus MV	Value				
Before		344.7	Before		10.70				
After		344.1	After		10.74				
	317.5 (Minimum) 342.5 (Nominal) 367.5 (Maximum)			9.830 (Minimum) 10.83 (Nominal) 11.83 (Maximum)					
Before: 22-Nov-2002 2:09					After: 22-Nov-2002 12:35				

DUAL LATEROLOG - E Wellsite Calibration									
DLT Electronics Calibration Zero Measurement									
Phase	Deep Current Zero UA	Value	Phase	Deep Voltage Zero MV	Value	Phase	Groningen Voltage Zero MV	Value	
Before		-0.1316	Before		-0.01129	Before		-0.007646	
After		-0.09040	After		-0.008080	After		-0.003925	
	-1.000 (Minimum) 0 (Nominal) 1.000 (Maximum)			-0.1000 (Minimum) 0 (Nominal) 0.1000 (Maximum)			-0.1000 (Minimum) 0 (Nominal) 0.1000 (Maximum)		
Phase	Shallow Current Zero UA	Value	Phase	Shallow Voltage Zero MV	Value				

Before		-0.1279	Before		-0.009940
After		-0.09154	After		-0.008054
-1.000 (Minimum)		0 (Nominal)	-0.1000 (Minimum)		0.1000 (Maximum)

Before: 22-Nov-2002 0:26

After: 22-Nov-2002 12:34

### Hostile Environment Litho Density - A / Equipment Identification

**Primary Equipment:**

HOSTILE ENVIRONMENT LITHO DENSITY HIGH V	HLDV - A	10
HOSTILE ENVIRONMENT LITHO DENSITY CARTRI	HLDC - AA	11
Gamma Source Radioactive	GSR - Z	1846

**Auxiliary Equipment:**

HOSTILE ENVIRONMENT LITHO DENSITY SONDE	HLDS - B	10
HOSTILE ENVIRONMENT ELECTRONICS CARTRIDG	HEH - H	12
HOSTILE ENVIRONMENT ELECTRONICS CARTRIDG	HEH - G	11
HOSTILE ENVIRONMENT LITHO DENSITY PAD	HLDP - B	10

### Hostile Environment Litho Density - A Wellsite Calibration

#### Background Measurement

Phase	LSW1 Background CPS	Value	Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value
Master		87.71	Master		92.23	Master		178.9
Before		86.85	Before		90.00	Before		173.1
After		86.77	After		90.54	After		176.5
65.00 (Minimum) 100.0 (Nominal) 125.0 (Maximum)			70.00 (Minimum) 105.0 (Nominal) 130.0 (Maximum)			150.0 (Minimum) 210.0 (Nominal) 250.0 (Maximum)		
Phase	LSW4 Background CPS	Value	Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value
Master		237.2	Master		515.8	Master		85.59
Before		232.7	Before		517.2	Before		83.68
After		234.7	After		517.0	After		83.62
220.0 (Minimum) 290.0 (Nominal) 330.0 (Maximum)			430.0 (Minimum) 610.0 (Nominal) 730.0 (Maximum)			70.00 (Minimum) 100.0 (Nominal) 120.0 (Maximum)		
Phase	SSW2 Background CPS	Value	Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value
Master		165.7	Master		437.0	Master		232.7
Before		164.0	Before		433.7	Before		229.5
After		162.8	After		435.1	After		230.6
140.0 (Minimum) 200.0 (Nominal) 240.0 (Maximum)			380.0 (Minimum) 530.0 (Nominal) 630.0 (Maximum)			190.0 (Minimum) 280.0 (Nominal) 340.0 (Maximum)		
Phase	SSW5 Background CPS	Value						
Master		174.6						
Before		172.9						
After		172.3						
140.0 (Minimum) 205.0 (Nominal) 250.0 (Maximum)								

Master: Calibration out of date 10-Aug-2002 15:41

Before: 14-Nov-2002 16:50

After: 22-Nov-2002 13:56

### Hostile Environment Litho Density - A Wellsite Calibration

#### Detectors Resolution From BKG Measurements

Phase	LS Background Resolution	Value	Phase	SS Background Resolution	Value
Master		1.033	Master		0.9460
Before		1.034	Before		0.9539
After		1.029	After		0.9494
0.7000 (Minimum) 1.000 (Nominal) 1.111 (Maximum)			0.7000 (Minimum) 1.000 (Nominal) 1.111 (Maximum)		

Master: Calibration out of date 10-Aug-2002 15:41

Before: 14-Nov-2002 16:50

After: 22-Nov-2002 13:56



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 MNTR - F	22 4185
Auxiliary Equipment: Accelerator-Porosity Housing APS Calibration Water Tank APS Aluminium Calibrator Sleeve	APH - AC SFT - 178 SFT - 281	22 4722 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		32.07	Master		32.26	Master		29.47
Before		33.13	Before		31.56	Before		29.09
After		33.05	After		32.06	After		28.56
	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		30.06	Master		32.24
Before		30.65	Before		34.16
After		29.08	After		31.31
	0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	

Master: 14-Sep-2002 2:44      Before: 14-Nov-2002 16:15      After: 22-Nov-2002 13:48

Accelerator-Porosity Tool Wellsite Calibration

Calibration Ratios

Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value	Phase	Near/Array Cal Ratio Up/Down	Value
Master		0.8936	Master		1.057	Master		1.010
	0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)			0.9000 (Minimum) 1.030 (Nominal) 1.170 (Maximum)			0.9700 (Minimum) 1.000 (Nominal) 1.030 (Maximum)	

Master: 14-Sep-2002 2:44

Accelerator-Porosity Tool Wellsite Calibration

Tank Check

Phase	Array-1 Standoff Porosity PU	Value	Phase	Array-2 Standoff Porosity PU	Value	Phase	Average Slowing Down Time US	Value
Master		11.34	Master		11.40	Master		5.887
	9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)	

Phase	Array-1 SDT Ratio Up/Down	Value	Phase	Array-2 SDT Ratio Up/Down	Value	Phase	Sigma Formation CU	Value
Master		0.9786	Master		0.9907	Master		27.97
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)	

Master: 14-Sep-2002 2:44

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment: HNGS Sonde	HNGS - BA	77
Auxiliary Equipment: HNGS Sonde Housing Gamma Source Radioactive	HNSH - BA GSR - U	79 135

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		40.54	Master		16.41	Master		1213	
Before		40.62	Before		16.78	Before		1211	
After		40.53	After		15.78	After		1214	
	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		145.3	Master		9.453	Master		25.85	
Before		145.6	Before		9.390	Before		32.34	
After		145.6	After		9.317	After		29.84	
	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		49.09							
Before		46.08							
After		45.90							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 13-Sep-2002 20:26			Before: 14-Nov-2002 16:14			After: 22-Nov-2002 13:49			

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		40.59	Master		16.13	Master		1241	
Before		40.60	Before		16.57	Before		1238	
After		40.46	After		17.32	After		1242	
	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		145.1	Master		9.614	Master		25.04	
Before		143.6	Before		9.986	Before		31.77	
After		144.9	After		8.846	After		30.12	
	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		48.66							
Before		45.54							
After		45.55							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 13-Sep-2002 20:26			Before: 14-Nov-2002 16:14			After: 22-Nov-2002 13:49			

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		1.009	
Before		1.012	
After		1.008	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 13-Sep-2002 20:26			
Before: 14-Nov-2002 16:14			
After: 22-Nov-2002 13:49			

Company: Lamont Doherty

**Schlumberger**

Well: ODP Leg 206, Site 1256C

Field: Fast Spreading Crust

Country: Coata Rica

Ocean: Pacific Ocean

Dual Laterlog/HNGS