

COMPANY: Lamont Doherty

WELL: ODP Leg 195, Site 1201D (WP-1B)

FIELD: ION

Country: Japan Ocean: West Phillipine

Country: Japan
Field: ION
Location: Rig- Joides Resolution
Well: ODP Leg 195, Site 1201D (WP-1)
Company: Lamont Doherty



Dual Laterolog-Natural Gamma Ray

Rig- Joides Resolution
Elev.: K.B. 11,2989 m
G.L. -5720 m
D.F. 11 m
Permanent Datum: MSL
Log Measured From: DES
Drilling Measured From: DES
Elev.: 0 m
11.3 m above Perm. Datum

API Serial No. Max. Hole Devi. 0 deg
Longitude E 151.9836
Latitude S 20.2425

Logging Date 12-Apr-2001

Run Number 1

Depth Driller 6320 m

Schlumberger Depth 6314 m

Bottom Log Interval 6298 m

Top Log Interval 5723 m

Casing Driller Size @ Depth 0.000 in @ 5800 m

Casing Schlumberger 5799.5 m

Bit Size 9.875 in

Type Fluid In Hole Sepiolite/Salt water

Density 1.05 g/cm3

Fluid Loss PH

Source Of Sample Mud Tank

RM @ Measured Temperature 0.224 ohm.m @ 82 degC

RMF @ Measured Temperature @ @

RMC @ Measured Temperature @ @

Source RMF RMC @ @

RM @ MRT RMF @ MRT 0.612 @ 16 @ 16

Maximum Recorded Temperatures 16 degC

Circulation Stopped Time 12-Apr-2001 1:00

Logger On Bottom Time 12-Apr-2001 See Log

Unit Number 99 Location Houston

Recorded By Kerry M. Swain

Witnessed By Samantha Barr, Phillippe Galliot

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 Location			
Recorded By			
Witnessed By			

DISCLAIMER
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OTHER SERVICES1
 OS1: MESTB/LSS
 OS2: HLDT/APS
 OS3:
 OS4:
 OS5:

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

REMARKS: RUN NUMBER 1
 Hole Cored With RCB.
 WHC used on all runs.
 Seas calm.
 Log Measured in Meters Below Rig Floor (MBRF).
 TD Driller- 6320 MBRF.
 Sea Floor Driller- 5720 MBRF.
 TD Logger- 6314 MBRF.
 Sea Floor Logger- 5723 MBRF.
 Drill Pipe Logger- 5799.5 MBRF.
 Drill Pipe Driller- 5800 MBRF. Spike at 6136m, caused by splice of data.
 Splice at 6119.5 of original uplogs. Downlog DLT curves are spliced in at 6135-6140. Sepiolite mud used to displace hole after drilling.
 A splice of the DLT uplog 2 curves are spliced in at 6131-6120.
 Original log files recorded with real time speed correction. Displayed data are corrected back to measured depth. Spike at 6020m does not repeat on downlog.
 A splice of the repeat DLT curves are inserted in at 5850-5816 mbrf.

REMARKS: RUN NUMBER 2

RUN 1		
SERVICE ORDER #:		
PROGRAM VERSION:	9C2-303	
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP

RUN 2		
SERVICE ORDER #:		
PROGRAM VERSION:		
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP



EQUIPMENT DESCRIPTION

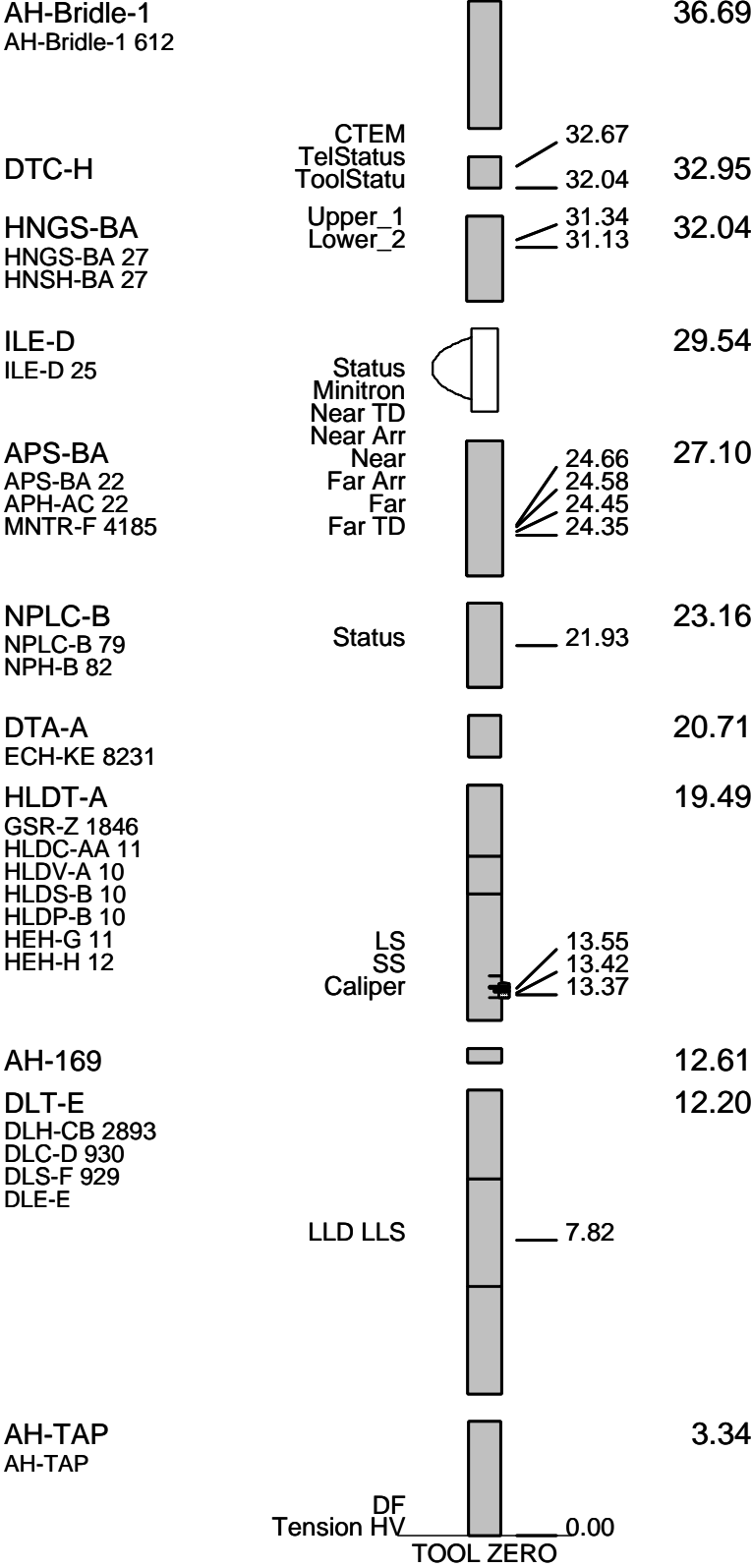
RUN 1

SURFACE EQUIPMENT
 LCM-AA 728
 SFT-281 24
 SFT-178 4722
 GSR-U 135
 WITM (DTS)-A

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT		41.31
AH-Bridle-2		40.42
AH-Bridle-2 148		



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

Input DLIS Files

DEFAULT	SPLICE_DLL_LDL_APS_096	FN:1	PRODUCER	14-Apr-2001 10:44	6317.7 M	5703.9 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_097PUP	FN:81	PRODUCER	14-Apr-2001 10:46	6317.7 M	5712.9 M
REDUCE	DLL_LDL_APS_HNGS_097PUP	FN:82	PRODUCER	14-Apr-2001 10:46	6317.7 M	5712.9 M

OP System Version: 9C2-303

MCM

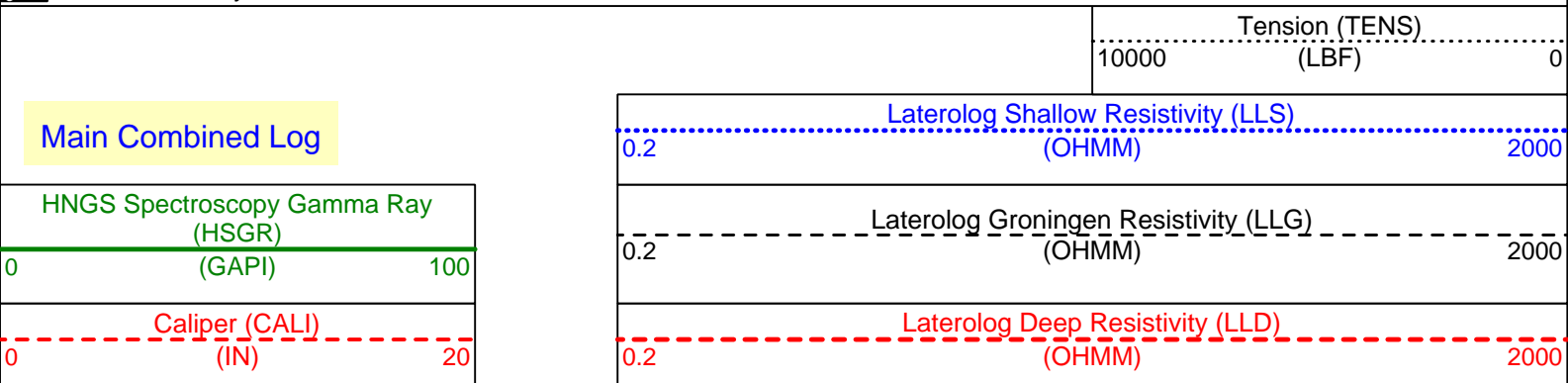
DLT-E	9C2-303	HLDT-A	9C2-303
DTA-A	9C2-303	NPLC-B	9C2-303
APS-BA	9C2-303	HNGS-BA	9C2-303
DTC-H	9C2-303		

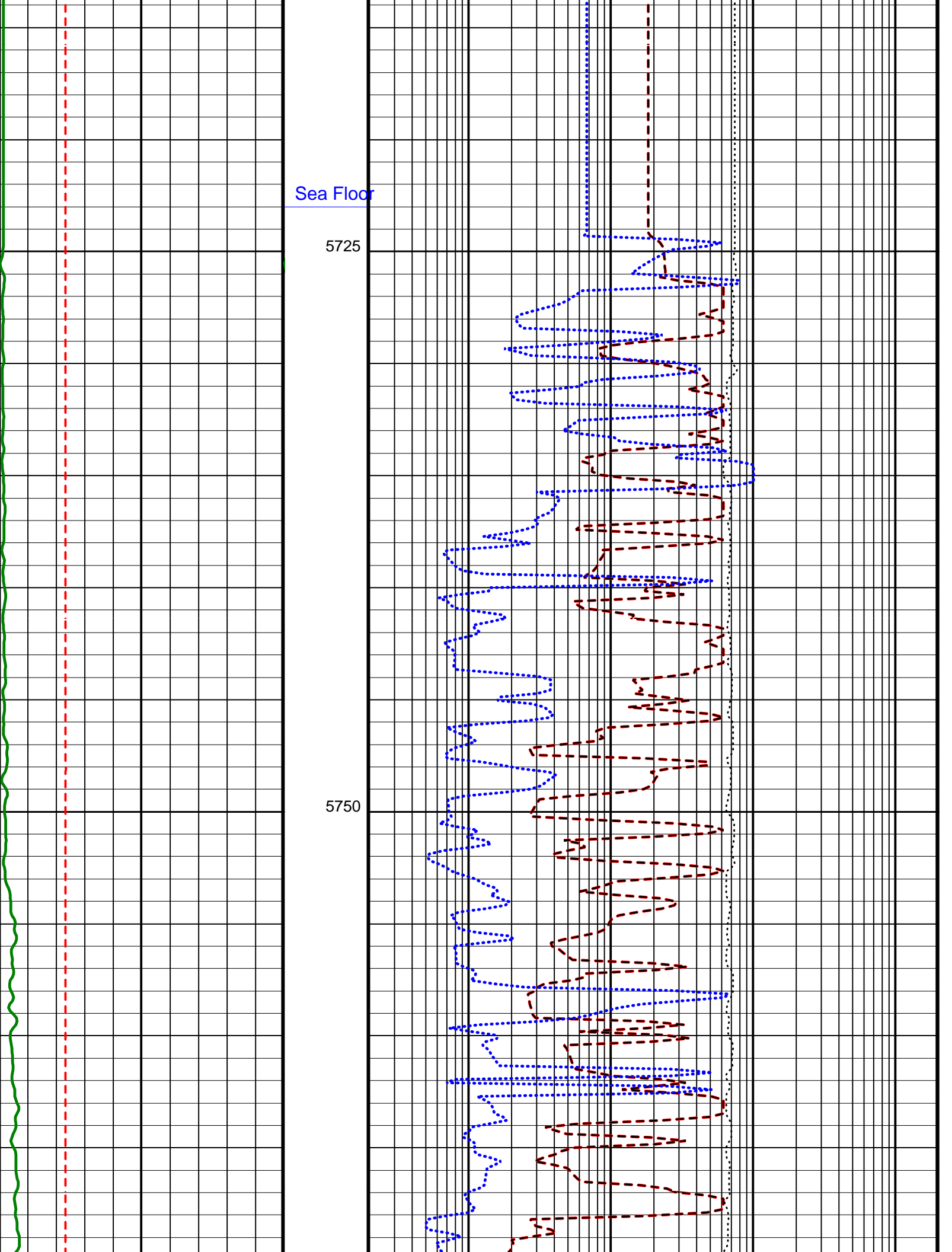
Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
BHS	CASED	OPEN	5804.3 10:53:48
GCSE	BS	CALI	5804.3 10:53:44

PIP SUMMARY

Time Mark Every 60 S

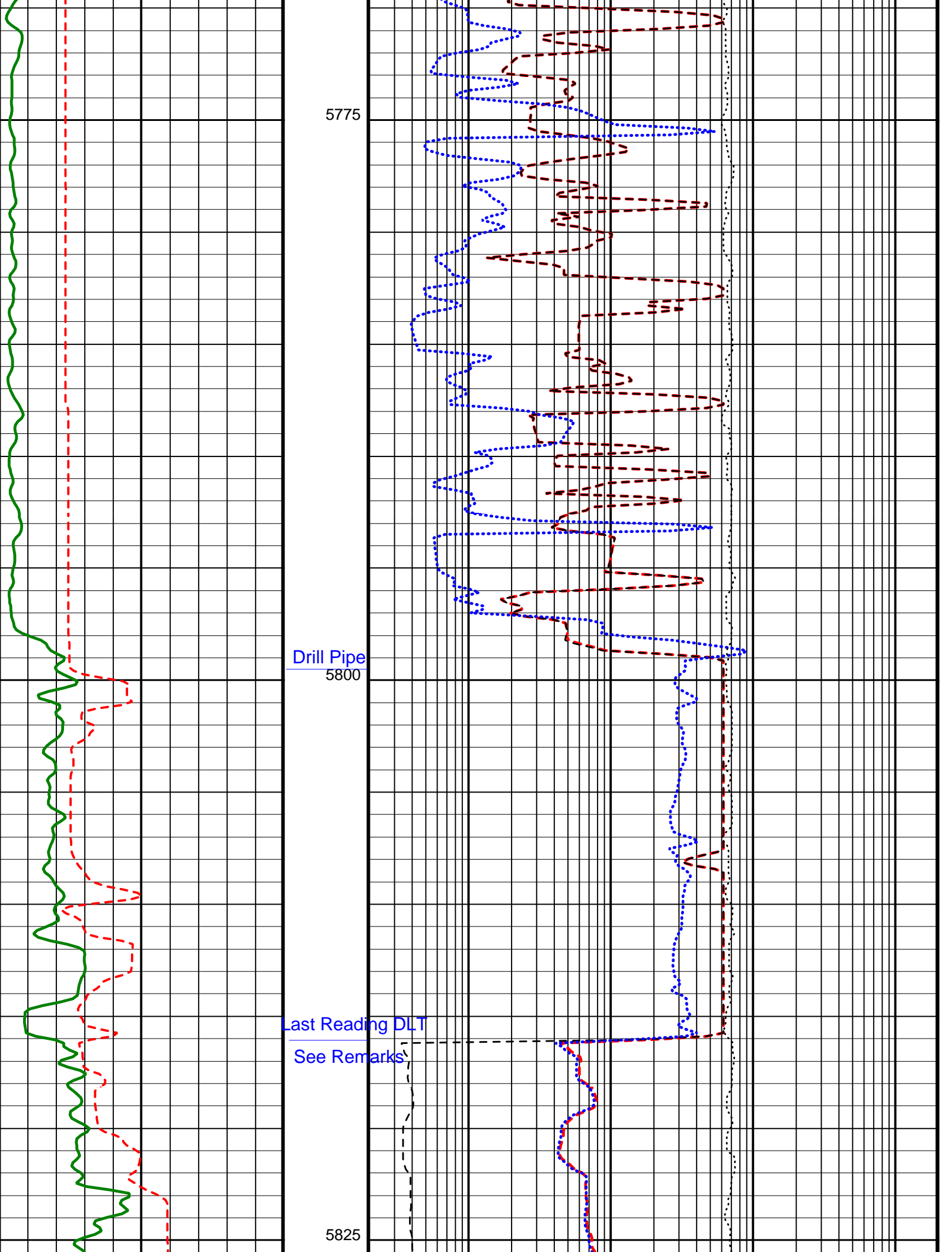




Sea Floor

5725

5750

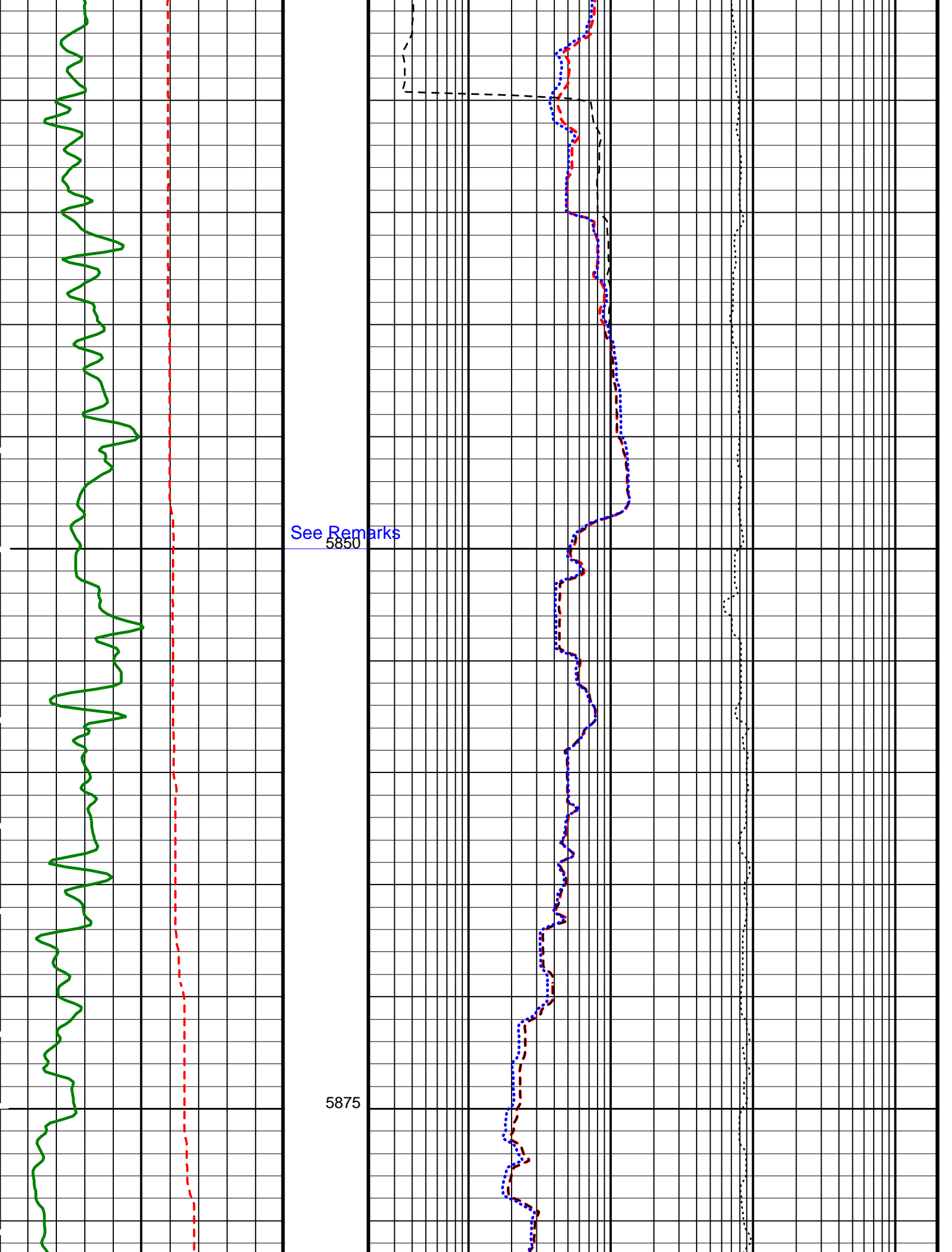


5775

Drill Pipe
5800

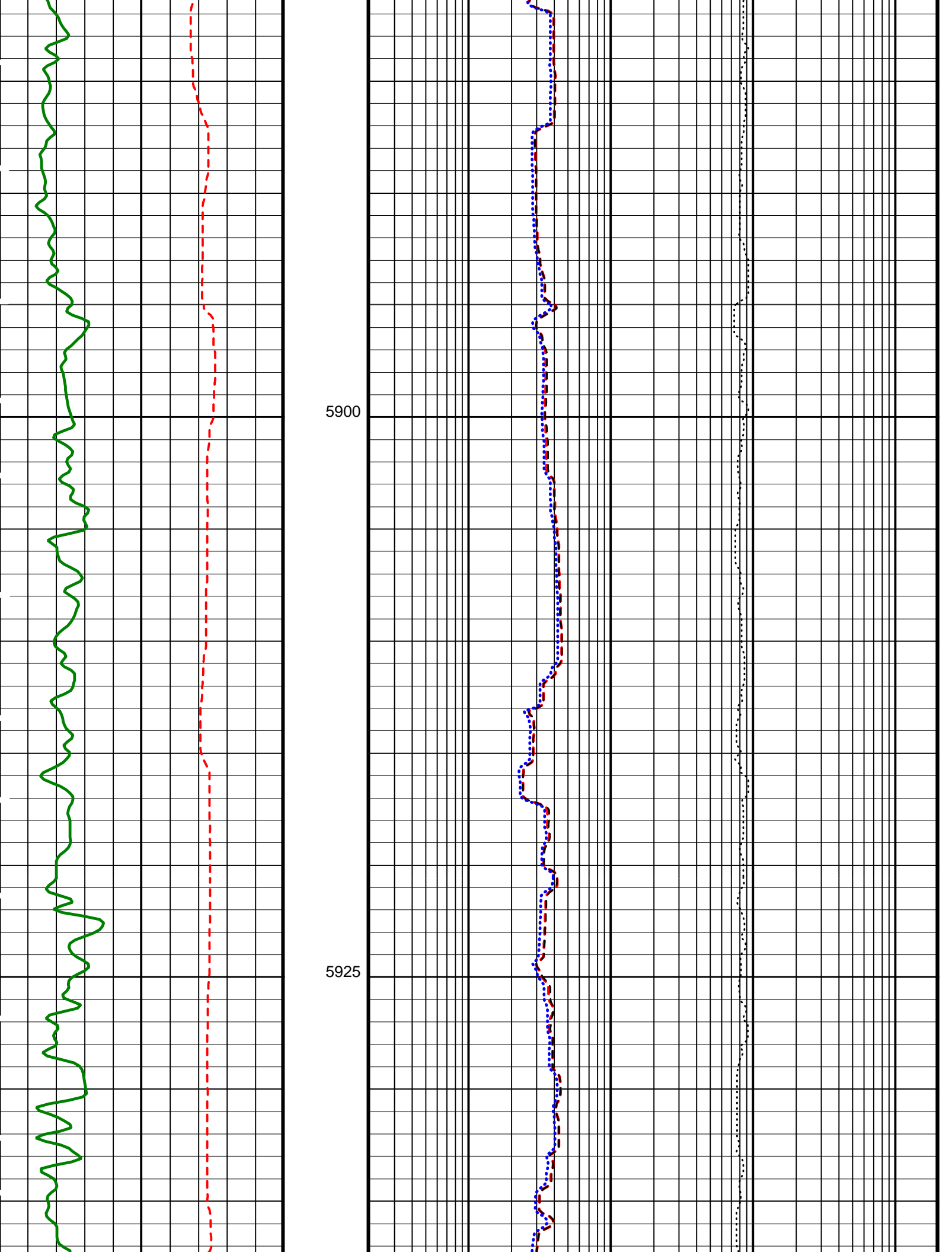
Last Reading DLT
See Remarks

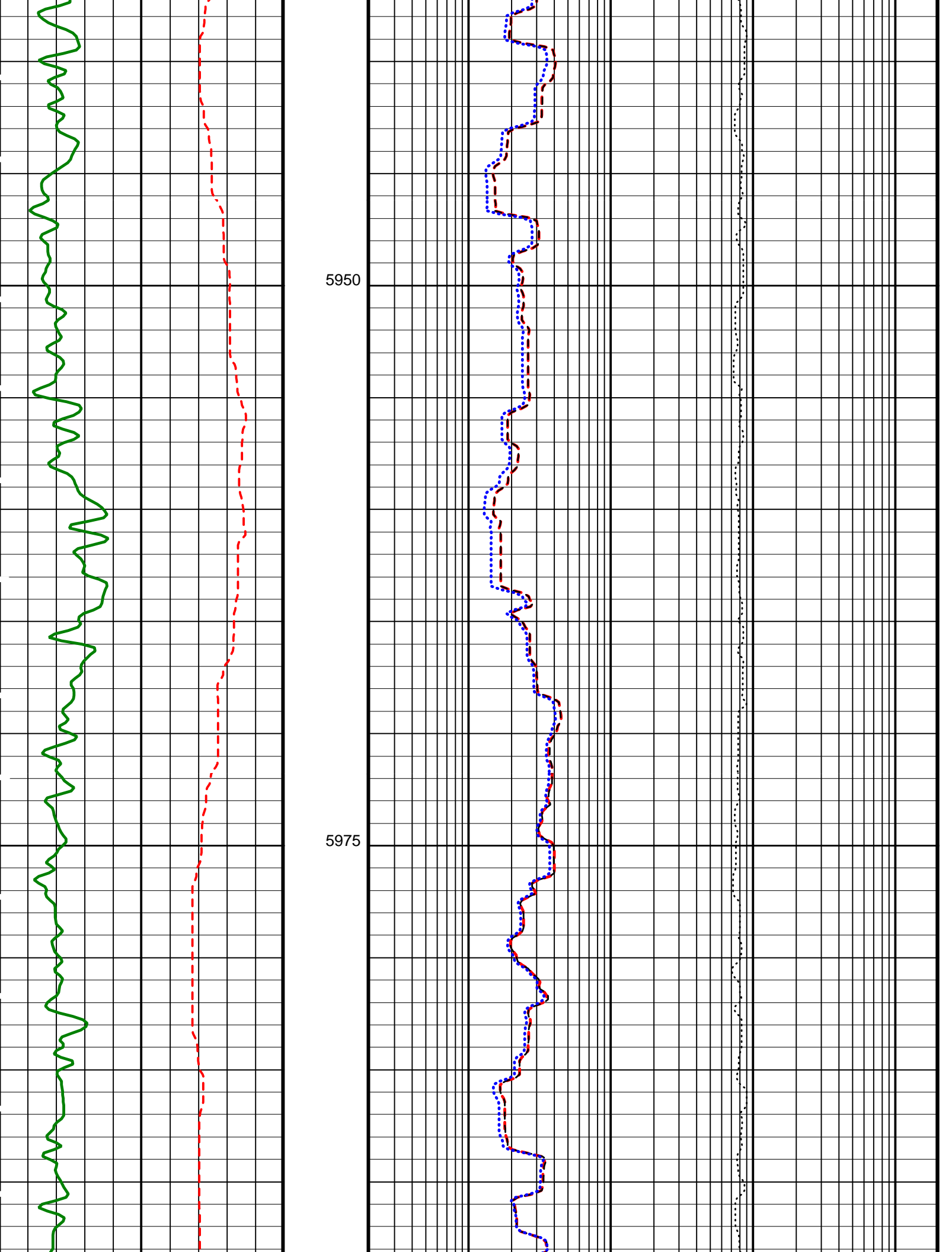
5825

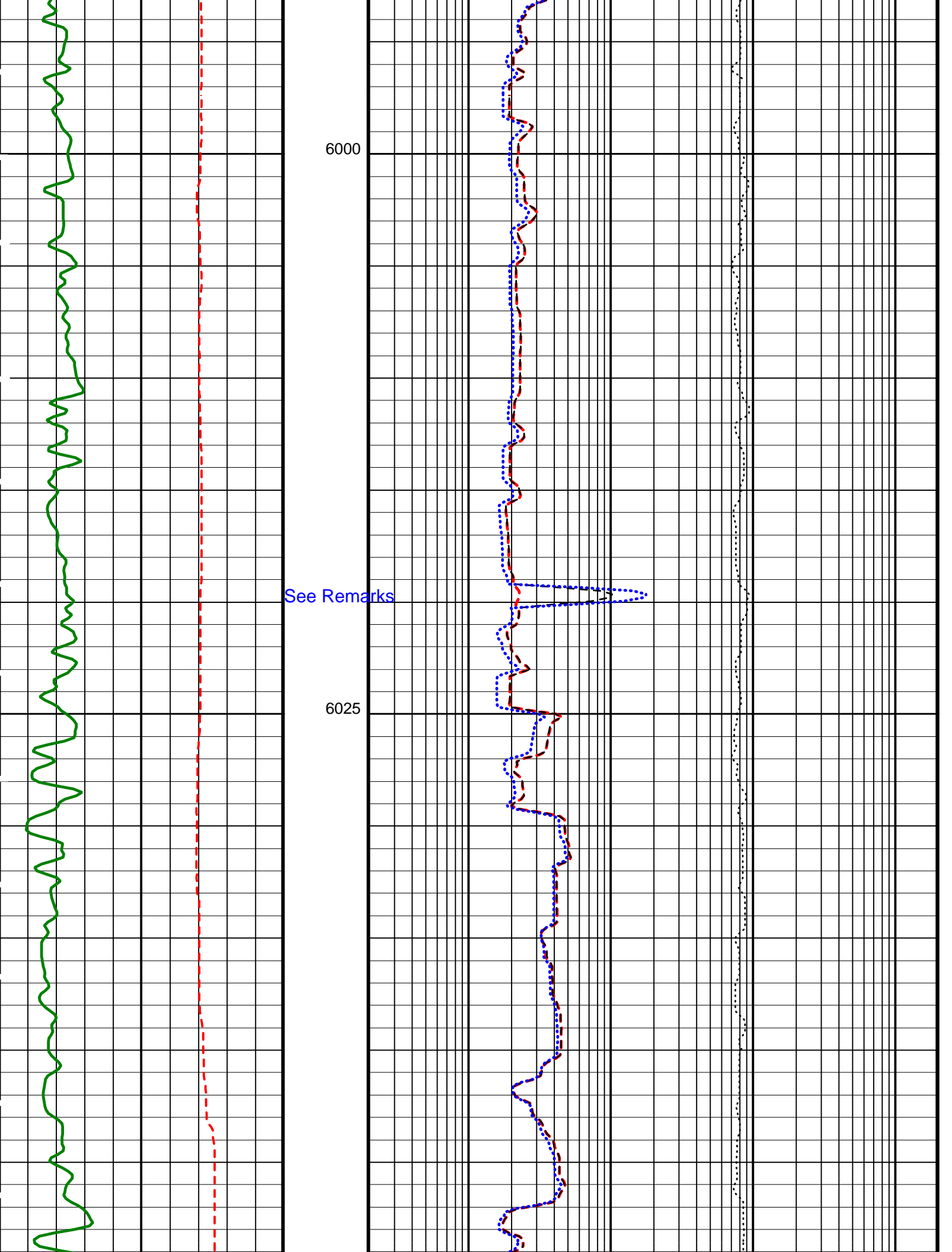


See Remarks
5850

5875



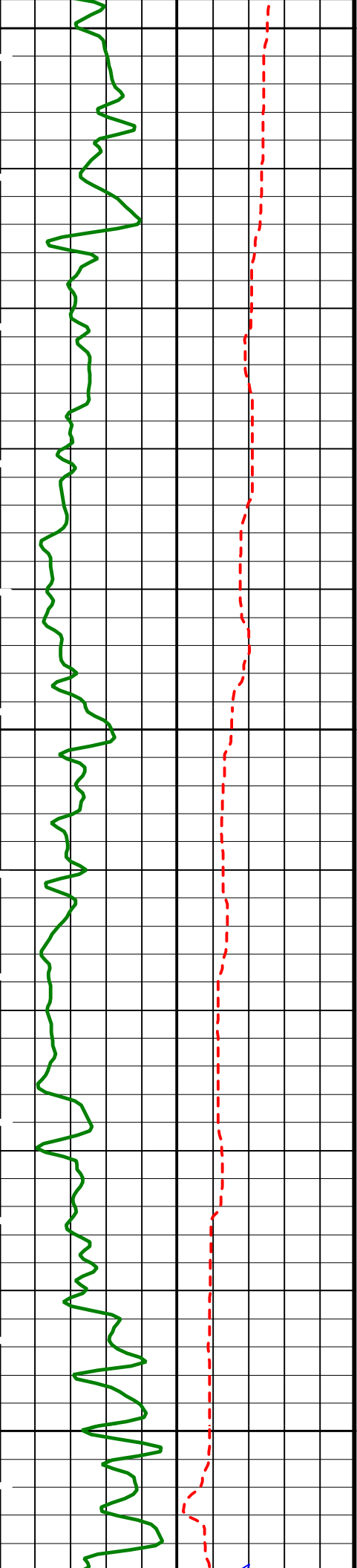




6000

See Remarks

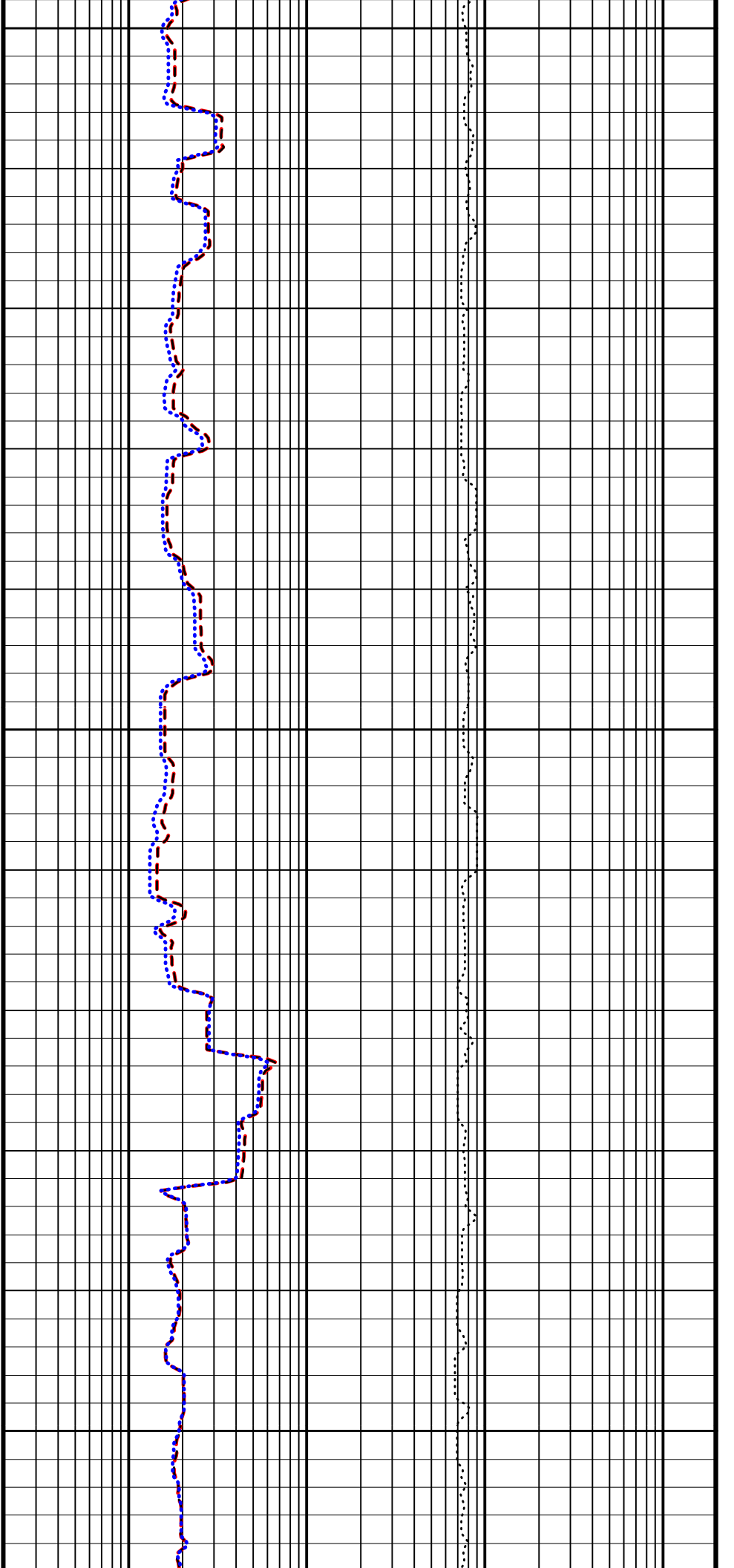
6025

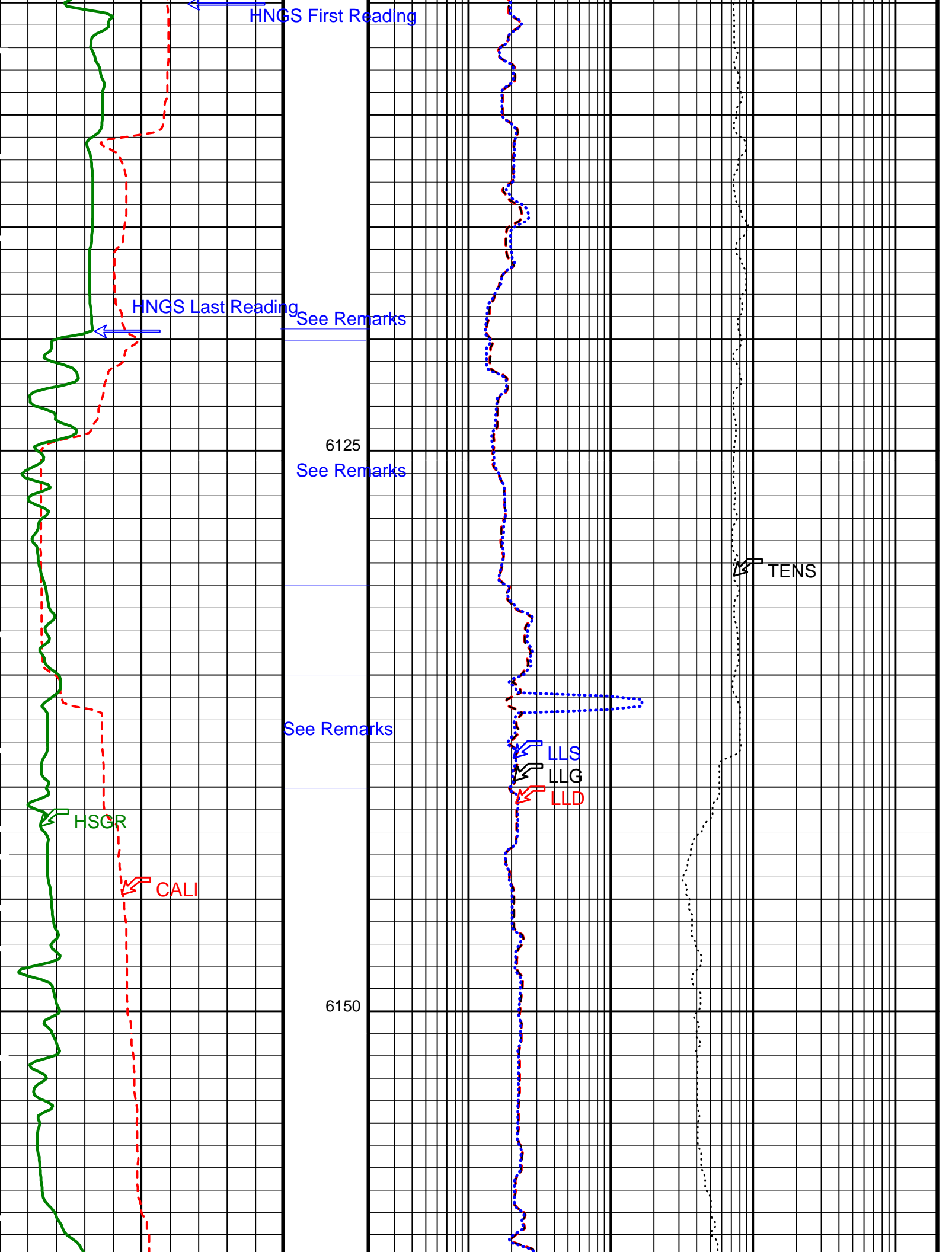


6050

6075

6100





HNGS First Reading

HNGS Last Reading

See Remarks

6125
See Remarks

See Remarks

HSCR

CALI

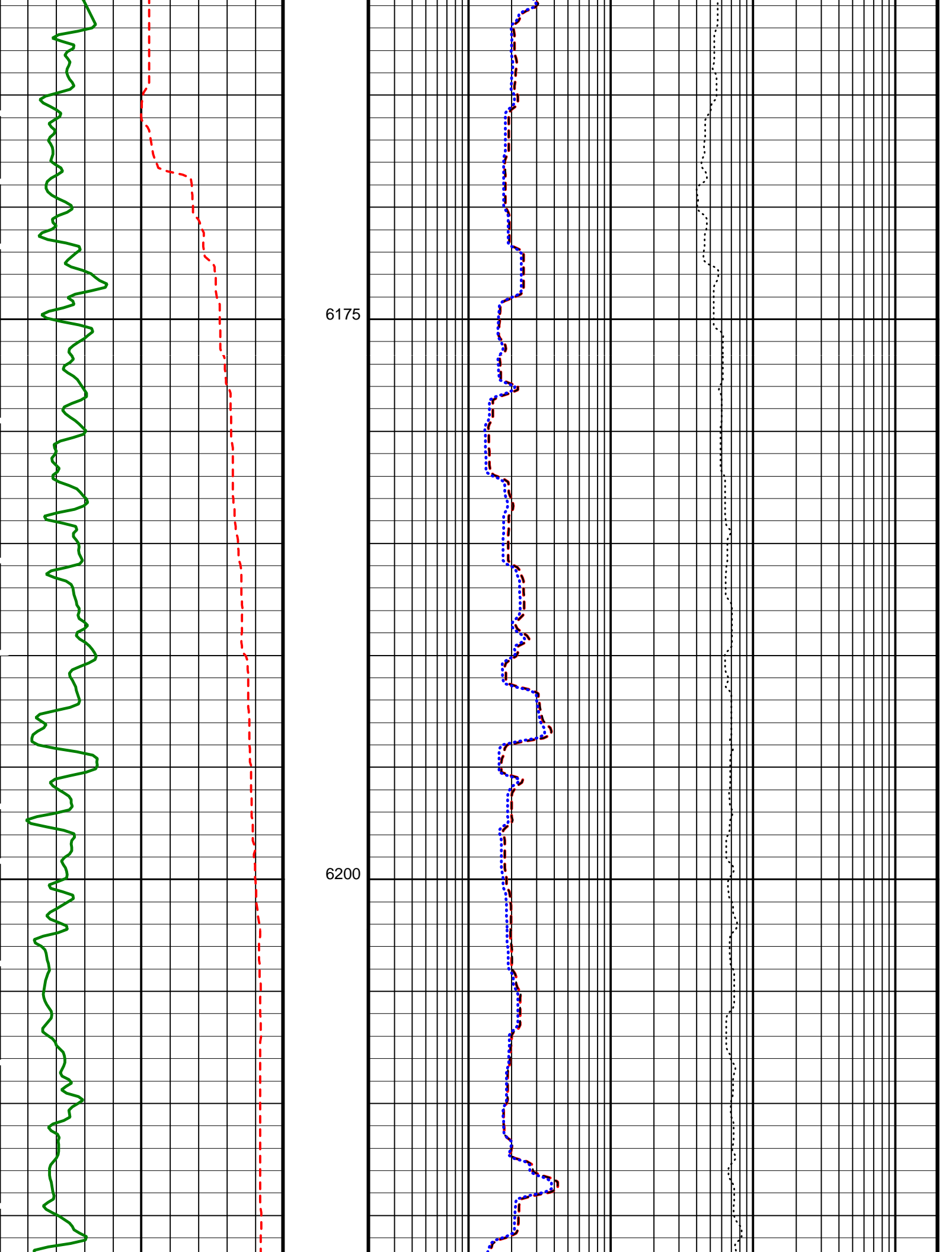
LLS

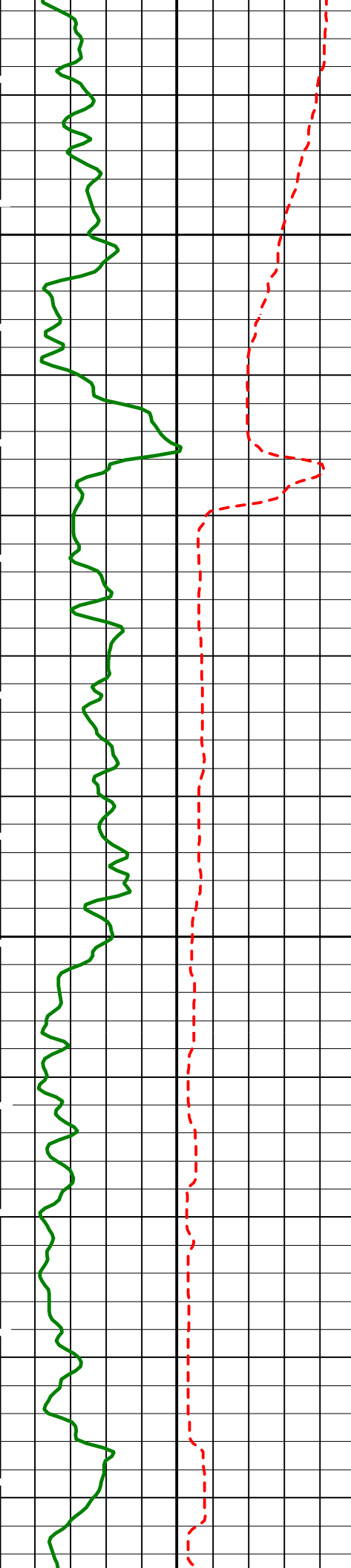
LLG

LLD

TENS

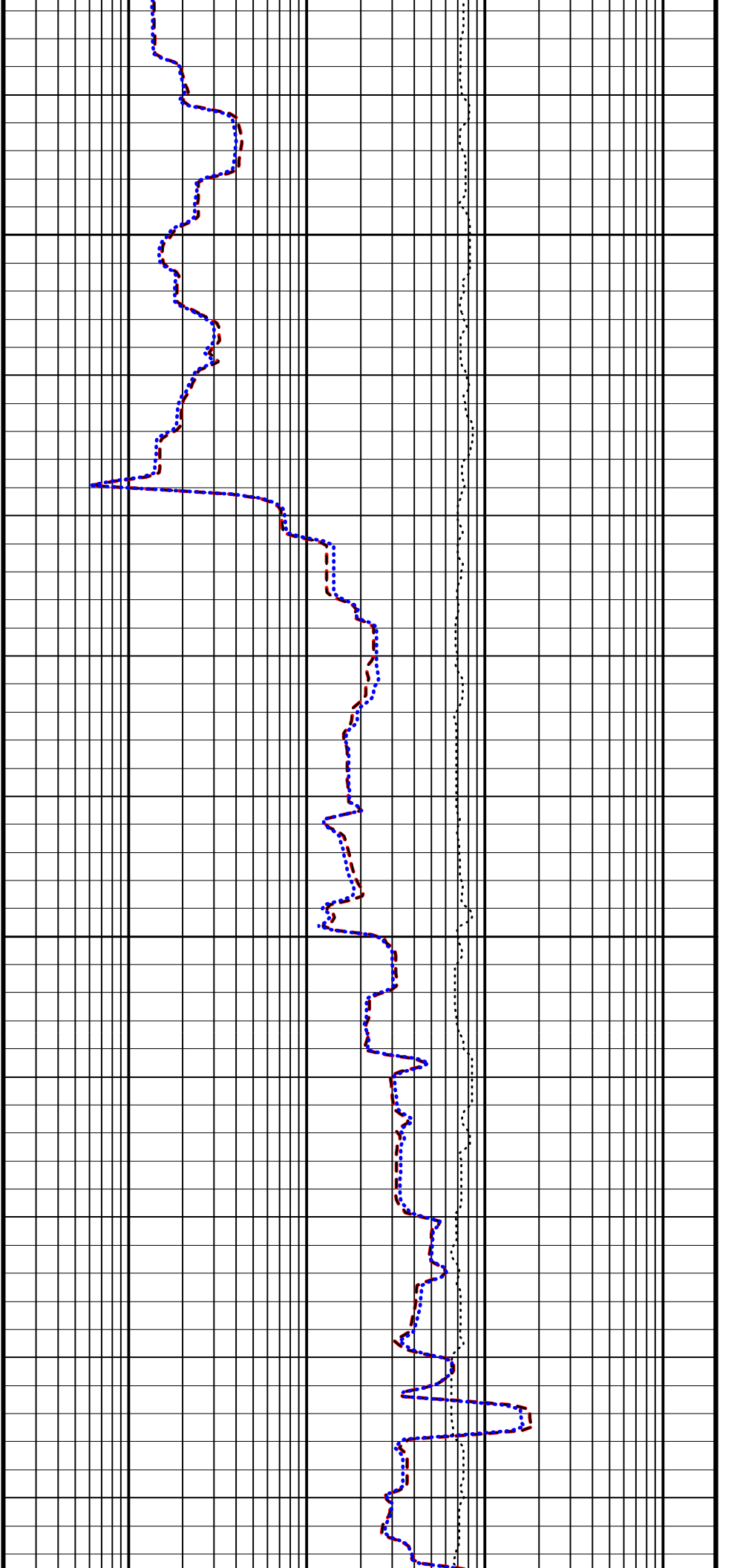
6150

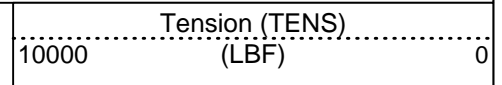
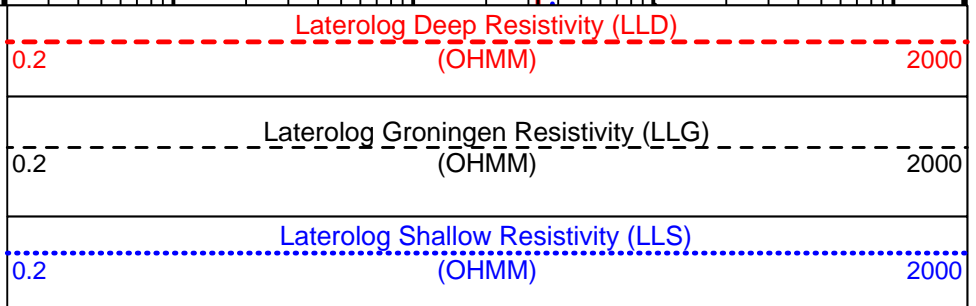
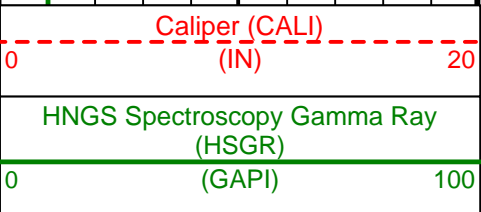
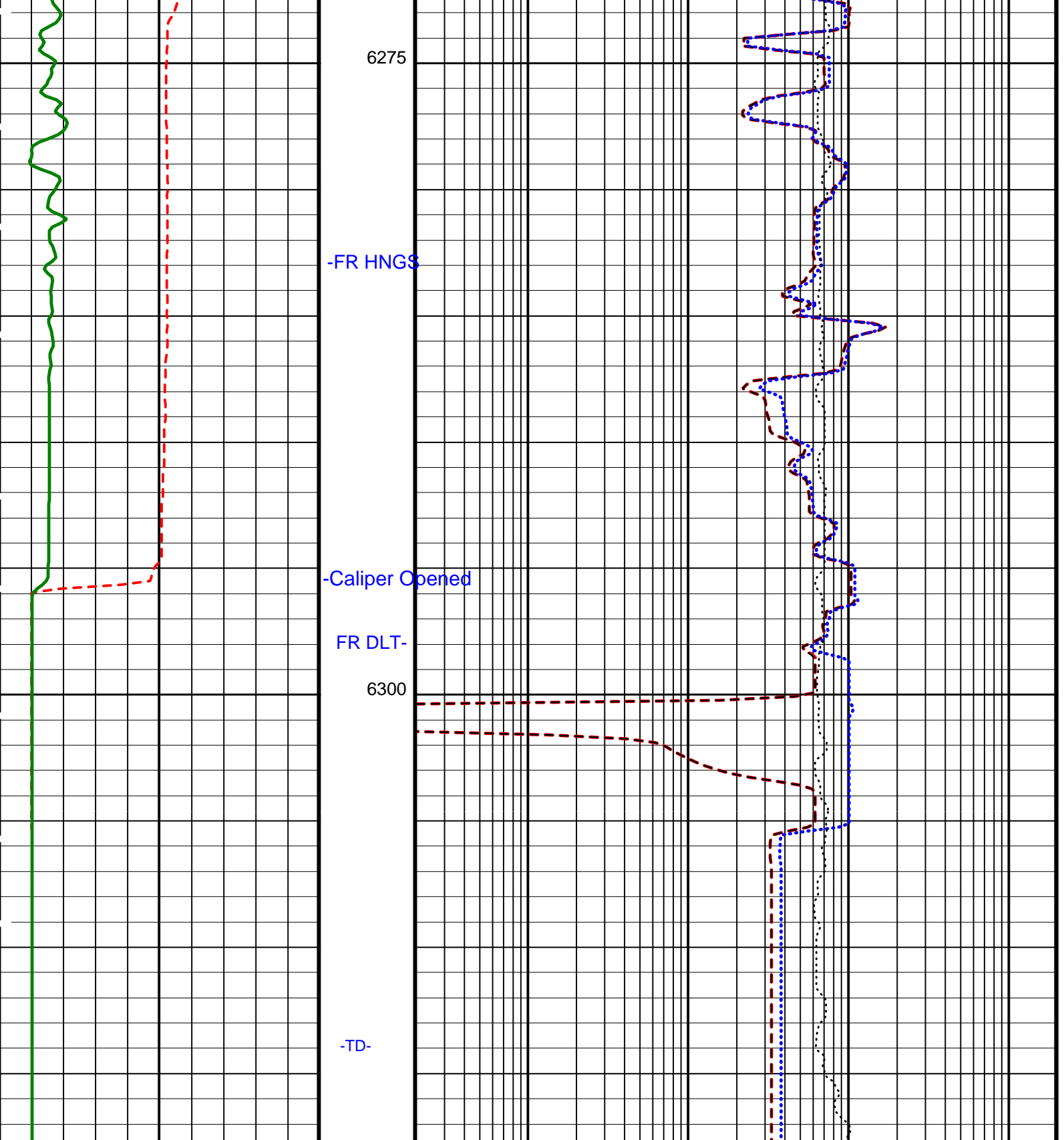




6225

6250





Main Combined Log

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	
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	8.0343	%
D1TC	HNGS Detector 1 Calibration Temperature	87.4251	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.477	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.33894	%
D2TC	HNGS Detector 2 Calibration Temperature	85.5201	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	208.56	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	0.0	M
DPRF	DEEP REFERENCE POWER	550	NW
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
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	-0.00377598	
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	3.92875e-032	
KFAC	K FACTOR	SOND	
LLOO	LATEROLOG LOOP	OFF	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
PLRM	POWER LOOP REFERENCE MODE	DEEP	
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	21.323	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986452	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	21.8134	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.977534	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	9.20898e-005	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SPRF	SHALLOW REFERENCE POWER	550	NW
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07226	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.02923	

Format: DLT_Log Vertical Scale: 1:200 Graphics File Created: 14-Apr-2001 10:46

OP System Version: 9C2-303

MCM

DLT-E	9C2-303	HLDT-A	9C2-303
DTA-A	9C2-303	NPLC-B	9C2-303
APS-BA	9C2-303	HNGS-BA	9C2-303
DTC-H	9C2-303		

Input DLIS Files

DEFAULT	SPLICE_DLL_LDL_APS_096	FN:1	PRODUCER	14-Apr-2001 10:44	6317.7 M	5703.9 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_097PUP	FN:81	PRODUCER	14-Apr-2001 10:46		
DEFAULT	SPLICE_DLL_LDL_APS_HNGS_097PUP	FN:82	PRODUCER	14-Apr-2001 10:46		

Input DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_030LUP	FN:20	PRODUCER	12-Apr-2001 21:59	5904.7 M	5810.1 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_038PUP	FN:36	PRODUCER	13-Apr-2001 00:53	5904.7 M	5815.7 M
REDUCE	DLL_LDL_APS_HNGS_038PUP	FN:37	PRODUCER	13-Apr-2001 00:53	5904.7 M	5815.7 M

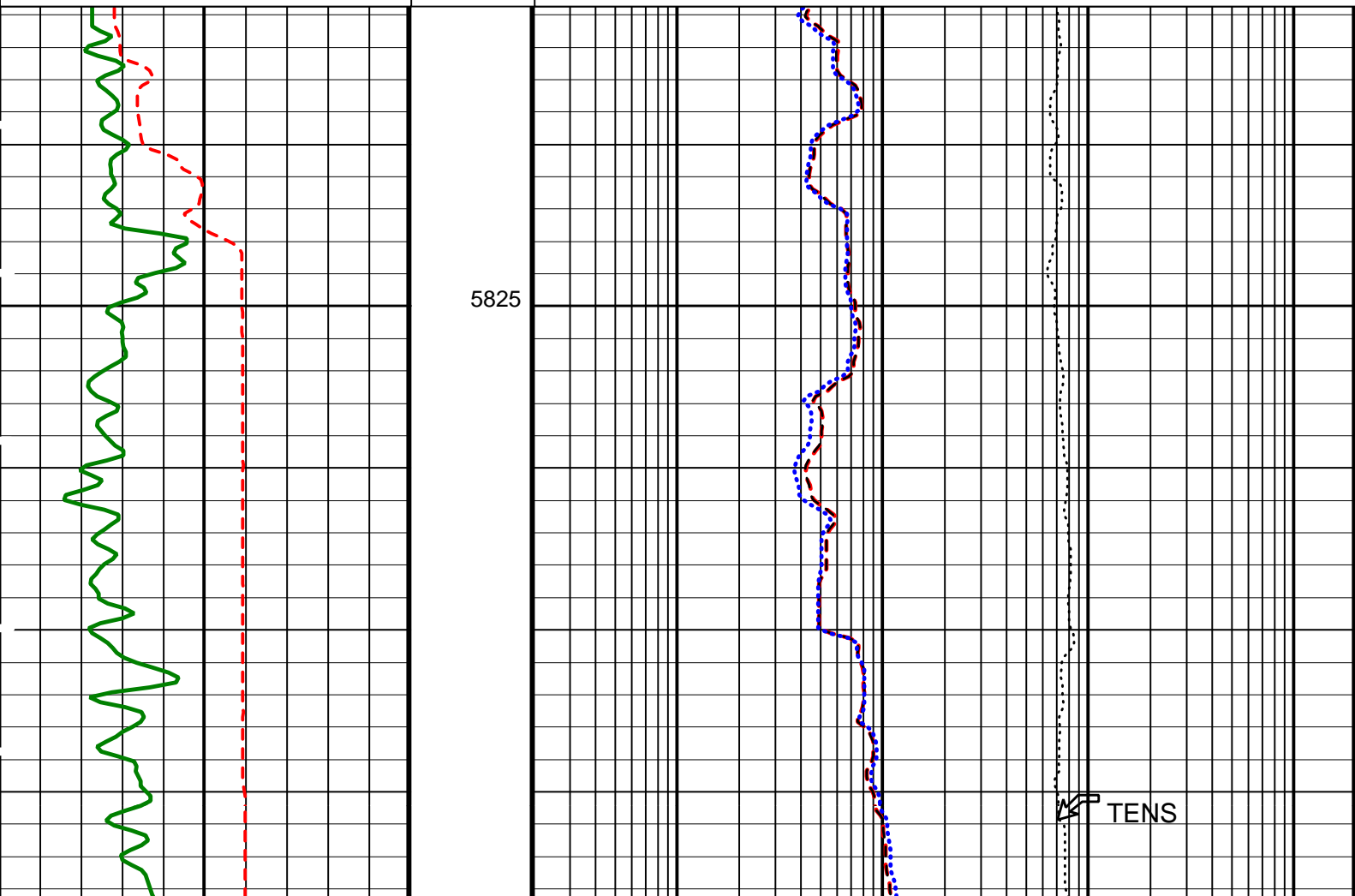
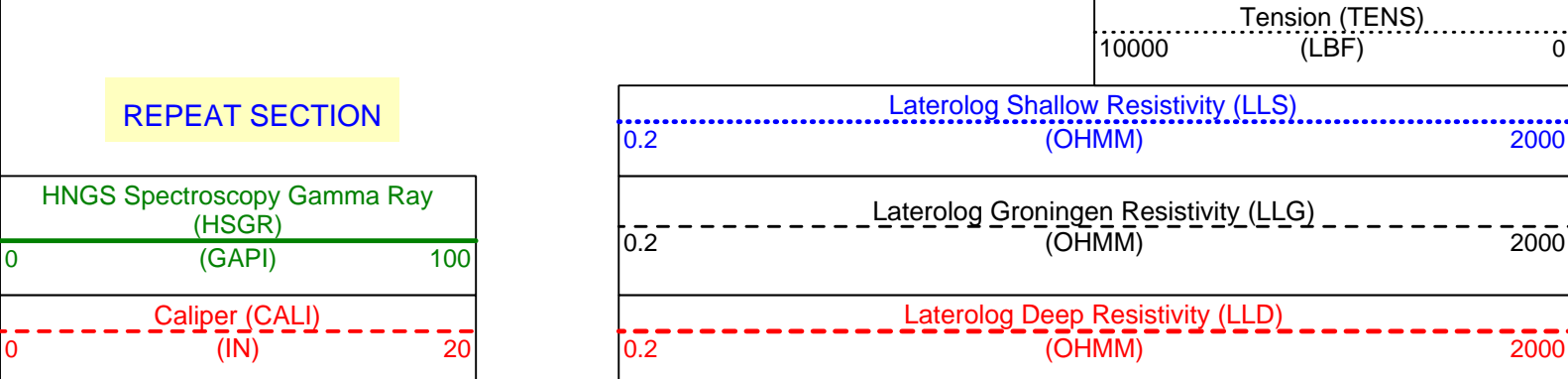
OP System Version: 9C2-303

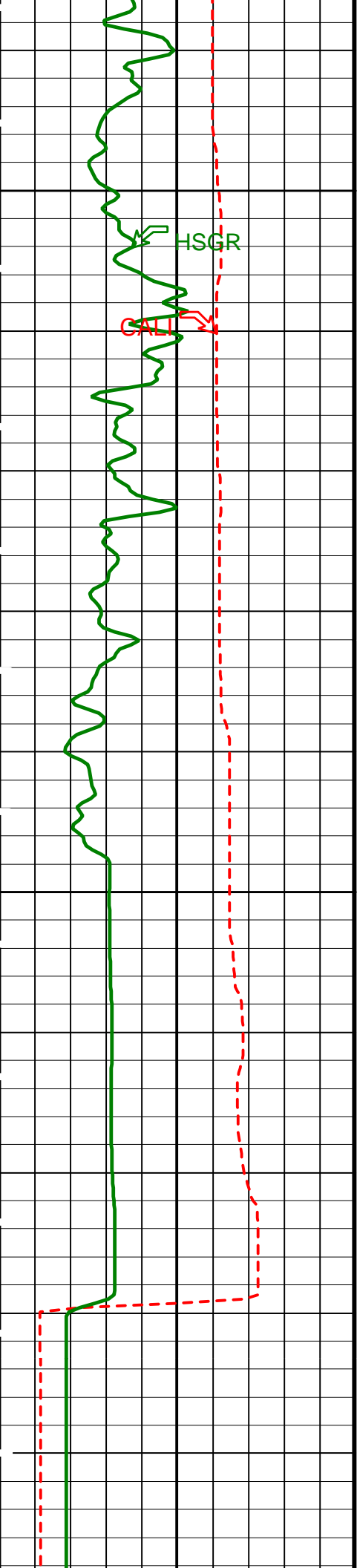
MCM

DLT-E	9C2-303	HLDT-A	9C2-303
DTA-A	9C2-303	NPLC-B	9C2-303
APS-BA	9C2-303	HNGS-BA	9C2-303
DTC-H	9C2-303		

PIP SUMMARY

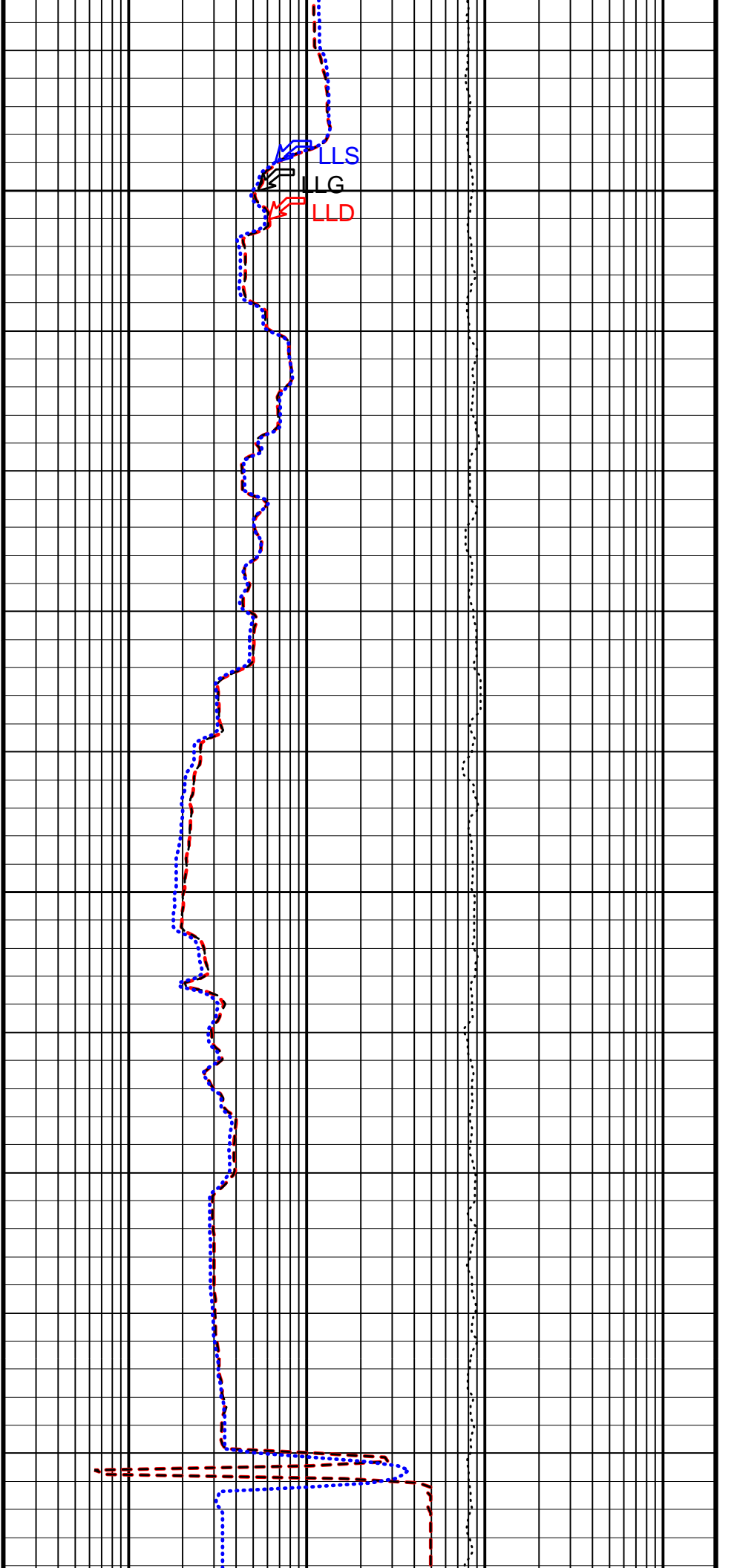
Time Mark Every 60 S





5850

5875



LLS

LG

LLD

5900

Caliper (CALI)	
0	20
(IN)	
HNGS Spectroscopy Gamma Ray (HSGR)	
0	100
(GAPI)	

Laterolog Deep Resistivity (LLD)	
0.2	2000
(OHMM)	
Laterolog Groningen Resistivity (LLG)	
0.2	2000
(OHMM)	
Laterolog Shallow Resistivity (LLS)	
0.2	2000
(OHMM)	

REPEAT SECTION

Tension (TENS)	
10000	0
(LBF)	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
ALTDPCCHAN	Name of alternate depth channel	MeasuredDepth	
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	
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	8.0343	%
D1TC	HNGS Detector 1 Calibration Temperature	87.4251	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.477	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.33894	%
D2TC	HNGS Detector 2 Calibration Temperature	85.5201	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	208.56	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	0.0	M
DPRF	DEEP REFERENCE POWER	550	NW
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
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	-0.0040082	
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	2.30388e-036	
KFAC	K FACTOR	SOND	
LLOO	LATEROLOG LOOP	OFF	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
PBVSADP	Use alternate depth channel for playback	YES	
PLRM	POWER LOOP REFERENCE MODE	DEEP	
PP	Playback Processing	RECOMPUTE	
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	21.323	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986452	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	21.8134	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.977534	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	8.45832e-005	

SGRC	HNGS Standard Gamma-Ray Correction Flag	0.45832e-005	YES
SPRF	SHALLOW REFERENCE POWER	550	NW
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.06885	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04232	

Format: DLT_Log Vertical Scale: 1:200 Graphics File Created: 13-Apr-2001 00:53

OP System Version: 9C2-303

MCM

DLT-E	9C2-303	HLDT-A	9C2-303
DTA-A	9C2-303	NPLC-B	9C2-303
APS-BA	9C2-303	HNGS-BA	9C2-303
DTC-H	9C2-303		

Input DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_030LUP	FN:20	PRODUCER	12-Apr-2001 21:59	5904.7 M	5810.1 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_038PUP	FN:36	PRODUCER	13-Apr-2001 00:53
REDUCE	DLL_LDL_APS_HNGS_038PUP	FN:37	PRODUCER	13-Apr-2001 00:53

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
DUAL LATEROLOG - E Wellsite Calibration - DLT ELECTRONICS CALIBRATION Laterolog Measurement							
Before: 12-Apr-2001 19:31 After: 13-Apr-2001 0:05							
MEASURED LLD	31.62	N/A	31.96	31.95	-0.009939	0.9000	OHMM
MEASURED LLS	31.62	N/A	31.13	31.15	0.01953	0.9000	OHMM
Hostile Environment Litho Density - A Wellsite Calibration - Background Measurement							
Master: 25-Feb-2001 4:31 Before: 17-Mar-2001 2:28 After: 13-Apr-2001 2:11							
LSW1 Background	100.0	89.57	90.13	89.70	-0.4220	0.03000	CPS
LSW2 Background	105.0	93.01	94.83	94.01	-0.8213	0.03000	CPS
LSW3 Background	210.0	182.4	180.0	181.4	1.325	0.03000	CPS
LSW4 Background	290.0	244.1	244.0	243.0	-1.012	0.03000	CPS
LSW5 Background	610.0	539.3	535.2	533.1	-2.070	0.03000	CPS
SSW1 Background	100.0	86.90	87.09	86.97	-0.1207	0.03000	CPS
SSW2 Background	200.0	172.0	171.7	170.1	-1.511	0.03000	CPS
SSW3 Background	530.0	455.8	454.0	451.8	-2.122	0.03000	CPS
SSW4 Background	280.0	240.8	240.9	239.7	-1.131	0.03000	CPS
SSW5 Background	205.0	178.8	179.0	179.2	0.2390	0.03000	CPS
Hostile Environment Litho Density - A Wellsite Calibration - Tool Quality Control Information High Voltage							
Master: 25-Feb-2001 4:31 Before: 17-Mar-2001 2:28 After: 13-Apr-2001 2:11							
LS Bkg. High Voltage	1127	1127	1132	1134	2.103	N/A	V
SS Bkg. High Voltage	1178	1178	1178	1180	2.536	N/A	V
Hostile Environment Litho Density - A Wellsite Calibration - Detectors Resolution From BKG Measurements							
Master: 25-Feb-2001 4:31 Before: 17-Mar-2001 2:28 After: 13-Apr-2001 2:11							
LS Background Resolution	1.000	1.027	1.041	1.045	0.003996	N/A	
SS Background Resolution	1.000	0.9461	0.9462	0.9470	0.0008126	N/A	
Hostile Environment Litho Density - A Wellsite Calibration - Caliper Calibration							
Before: 17-Mar-2001 2:07							
Caliper Small Ring	12.00	N/A	16.23	N/A	N/A	N/A	IN
Caliper Large Ring	18.25	N/A	23.88	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 24-Feb-2001 4:02 Before: 12-Apr-2001 16:55 After: 12-Apr-2001 23:55							
Near Det Bkg Cntrate	30.00	32.57	32.70	55.83	23.12	N/A	CPS
Far Det Bkg Cntrate	30.00	32.66	32.64	34.38	1.745	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.51	29.03	38.58	9.554	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.14	31.34	37.91	6.580	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	33.69	31.99	38.16	6.171	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 24-Feb-2001 4:02							
Near/Far Calibration Ratio	0.9250	0.9008	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.064	N/A	N/A	N/A	N/A	

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 24-Feb-2001 5:08 Before: 11-Mar-2001 3:09 After: 13-Apr-2001 2:16

Na 511 Peak Loc	40.00	40.59	40.57	40.79	0.2230	1.000	
Na 511 Peak Res	15.50	16.64	16.82	15.62	-1.199	2.000	%
High Voltage	1150	1101	1108	1108	-0.2228	30.00	V
Na 1785 Peak Loc	142.6	145.5	146.4	146.3	-0.03072	7.000	
Na 1785 Peak Res	8.500	9.019	9.237	9.499	0.2612	2.000	%
Temperature	15.50	30.80	32.93	30.94	-1.994	N/A	DEGC
Na Count Rate	45.00	21.32	21.01	20.42	-0.5898	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 24-Feb-2001 5:08 Before: 11-Mar-2001 3:09 After: 13-Apr-2001 2:16

Na 511 Peak Loc	40.00	40.60	40.59	40.49	-0.09770	1.000	
Na 511 Peak Res	15.50	16.11	16.15	15.31	-0.8404	2.000	%
High Voltage	1150	1189	1197	1196	-0.6383	30.00	V
Na 1785 Peak Loc	142.6	144.7	145.0	144.8	-0.2100	7.000	
Na 1785 Peak Res	8.500	9.551	7.951	8.858	0.9066	2.000	%
Temperature	15.50	29.75	31.98	30.79	-1.189	N/A	DEGC
Na Count Rate	45.00	21.81	21.19	20.76	-0.4358	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2

Master: 24-Feb-2001 5:08 Before: 11-Mar-2001 3:09 After: 13-Apr-2001 2:16

Coincidence Count Rate Ratio	1.000	0.9809	0.9916	0.9853	-0.006294	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 24-Feb-2001 4:53

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.5	--	--	--	--	
Th Peak Res	7.000	8.034	--	--	--	--	%
Background Count Rate	142.5	16.57	--	--	--	--	CPS
Gain Ratio	1.000	0.9865	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 24-Feb-2001 4:53

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	208.6	--	--	--	--	
Th Peak Res	7.000	7.339	--	--	--	--	%
Background Count Rate	142.5	18.32	--	--	--	--	CPS
Gain Ratio	1.000	0.9775	--	--	--	--	

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 LATEROLOG - E / Equipment Identification

Primary Equipment:

Auxiliary Equipment:

Dual Laterolog Electrode	DLE - E	
Dual Laterolog Sonde	DLS - F	929
Dual Laterolog Housing	DLH - CB	2893
Dual Laterolog Cartridge	DLC - D	930
Laterolog Control Module	LCM - AA	728

DUAL LATEROLOG - E Wellsite Calibration

DLT ELECTRONICS CALIBRATION Laterolog Measurement

Phase	MEASURED LLD OHMM	Value	Phase	MEASURED LLS OHMM	Value
Before		31.96	Before		31.13
After		31.95	After		31.15
29.00 (Minimum)		31.62 (Nominal)	40.00 (Maximum)		
			29.00 (Minimum)		31.62 (Nominal)
					40.00 (Maximum)

Before: 12-Apr-2001 19:31 After: 13-Apr-2001 0:05

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			Before			Before		
After			After			After		

Before		341.2	Before		10.91	Before		11.38	
After		341.3	After		10.90	After		11.38	
	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		344.3	Before		10.72				
After		344.4	After		10.73				
	317.5 (Minimum)	342.5 (Nominal)	367.5 (Maximum)	9.830 (Minimum)	10.83 (Nominal)	11.83 (Maximum)			
Before: 12-Apr-2001 19:31			After: 13-Apr-2001 0:05						

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		-0.09438	Before		-0.008615	Before		-0.004384			
After		-0.08586	After		-0.007697	After		-0.003849			
	-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		-0.09552	Before		-0.008513						
After		-0.09694	After		-0.007697						
	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)	-0.1000 (Minimum)	0 (Nominal)	0.1000 (Maximum)					
Before: 12-Apr-2001 19:30			After: 13-Apr-2001 0:04								

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

Nuclear Porosity Lithology Cartridge - B / Equipment Identification

Primary Equipment:

NPLC Cartridge	NPLC - B	79
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Auxiliary Equipment:

NPLC Housing	NPH - B	82
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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

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:





HNGS Sonde	HNGS - BA	27
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Auxiliary Equipment:





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		40.59	Master		16.64	Master		1101	
Before		40.57	Before		16.82	Before		1108	
After		40.79	After		15.62	After		1108	
	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		145.5	Master		9.019	Master		30.80	
Before		146.4	Before		9.237	Before		32.93	
After		146.3	After		9.499	After		30.94	
	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		21.32							
Before		21.01							
After		20.42							
	15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 24-Feb-2001 5:08			Before: 11-Mar-2001 3:09			After: 13-Apr-2001 2:16			

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		40.60	Master		16.11	Master		1189	
Before		40.59	Before		16.15	Before		1197	
After		40.49	After		15.31	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		144.7	Master		9.551	Master		29.75	
Before		145.0	Before		7.951	Before		31.98	
After		144.8	After		8.858	After		30.79	
	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		21.81							
Before		21.19							
After		20.76							
	15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 24-Feb-2001 5:08			Before: 11-Mar-2001 3:09			After: 13-Apr-2001 2:16			

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		0.9809	
Before		0.9916	
After		0.9853	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 24-Feb-2001 5:08			
Before: 11-Mar-2001 3:09			
After: 13-Apr-2001 2:16			

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 1 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			210.5	Master			8.034
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master	EXCEEDS LIMIT		16.57	Master			0.9865				
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

Master: 24-Feb-2001 4:53

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 2 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			208.6	Master			7.339
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master	EXCEEDS LIMIT		18.32	Master			0.9775				
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

Master: 24-Feb-2001 4:53

Background source low, does not affect log measurement.

COMPANY:	Lamont Doherty	BOTTOM LOG INTERVAL	6298 m
WELL:	ODP Leg 195, Site 1201D (WP-1B)	SCHLUMBERGER DEPTH	6314 m
FIELD:	ION	DEPTH DRILLER	6320 m
Country:	Japan	KELLY BUSHING	11.2989 m
Ocean:	West Phillipine Sea	DRILL FLOOR	11 m
		GROUND LEVEL	-5720 m

Schlumberger

Dual Laterolog-Natural Gamma Ray