

COMPANY: Lamont Doherty

WELL: ODP Leg 197, Site He-3A, Hole 1203A

FIELD: Detroit Seamount, Emperor Seamount

Chain OCEAN: Pacific

Dual Laterolog
Natural Gamma Ray



Chain: Detroit Seamount, Emperor Sea
Location: ODP Leg 197, Site He-3A, Hole 1
Company: Lamont Doherty

LOCATION		Elev.:	K.B.	11.3 m
Permanent Datum:	MSL	G.L.	-2604 m	
Log Measured From:	RKB	D.F.	11 m	
Drilling Measured From:	RKB	Elev.:	0 m	11.3 m above Perm. Datum
API Serial No.	Max. Hole Devi.	Longitude	Latitude	
	1 deg	167.74 E	50.95 N	

Logging Date	23-Jul-2001			
Run Number	1			
Depth Driller	3519 m			
Schlumberger Depth	3520 m			
Bottom Log Interval	3514 m			
Top Log Interval	2604 m			
Casing Driller Size @ Depth	0.000 in @ 2806 m			
Casing Schlumberger	2806 m			
Bit Size	9.875 in			
Type Fluid In Hole	Sepiolite			
Density	1.066 g/cm3	80 s		
Fluid Loss	PH			
Source Of Sample	Flowline			
RM @ Measured Temperature	0.284 ohm.m	@	21 degC	
RMF @ Measured Temperature		@		
RMC @ Measured Temperature		@		
Source RMF	RMC			
RM @ MRT	0.320 @ 16		@ 16	
Maximum Recorded Temperatures	16 degC			
Circulation Stopped	23-Jul-2001	Time	0:00	
Logger On Bottom	23-Jul-2001	Time	14:13	
Unit Number	99	Location	Houston	
Recorded By	Kerry M. Swain			
Witnessed By	Florence Einaudi, Arno Buysch			

Logging Date	23-Jul-2001			
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Fluid Loss	PH			
Source Of Sample	Flowline			
RM @ Measured Temperature	0.284 ohm.m	@	21 degC	
RMF @ Measured Temperature		@		
RMC @ Measured Temperature		@		
Source RMF	RMC			
RM @ MRT	0.320 @ 16		@ 16	
Maximum Recorded Temperatures	16 degC			
Circulation Stopped	23-Jul-2001	Time	0:00	
Logger On Bottom	23-Jul-2001	Time	14:13	
Unit Number	99	Location	Houston	
Recorded By	Kerry M. Swain			
Witnessed By	Florence Einaudi, Arno Buysch			

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Fluid Loss	PH			
Source Of Sample	Flowline			
RM @ Measured Temperature	0.284 ohm.m	@	21 degC	
RMF @ Measured Temperature		@		
RMC @ Measured Temperature		@		
Source RMF	RMC			
RM @ MRT	0.320 @ 16		@ 16	
Maximum Recorded Temperatures	16 degC			
Circulation Stopped	23-Jul-2001	Time	0:00	
Logger On Bottom	23-Jul-2001	Time	14:13	
Unit Number	99	Location	Houston	
Recorded By	Kerry M. Swain			
Witnessed By	Florence Einaudi, Arno Buysch			

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OTHER SERVICES1

OS1: HLDT/APS
OS2: TAP
OS3:
OS4:
OS5:

OTHER SERVICES2

OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1

Hole cored with RCB.
WHC used on all runs.
Calm seas.
Log measured in meters below rig floor (MBRF).
TD Driller- 3519 MBRF, Logger- 3520 MBRF.
Sea Floor Driller-2604 MBRF. Sea floor could not be determined from Log data.
Bottom of drill pipe Driller- 2806 MBRF, Logger- 2809 MBRF.
Sepiolite mud used to displace hole before logging.
Low background measurement for HNGS master calibration due to weak background source and does not affect actual calibration/gain.

REMARKS: RUN NUMBER 2

RUN 1
SERVICE ORDER #:
PROGRAM VERSION: 9C2-303
FLUID LEVEL:

RUN 2
SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP



LOGGED INTERVAL	START	STOP

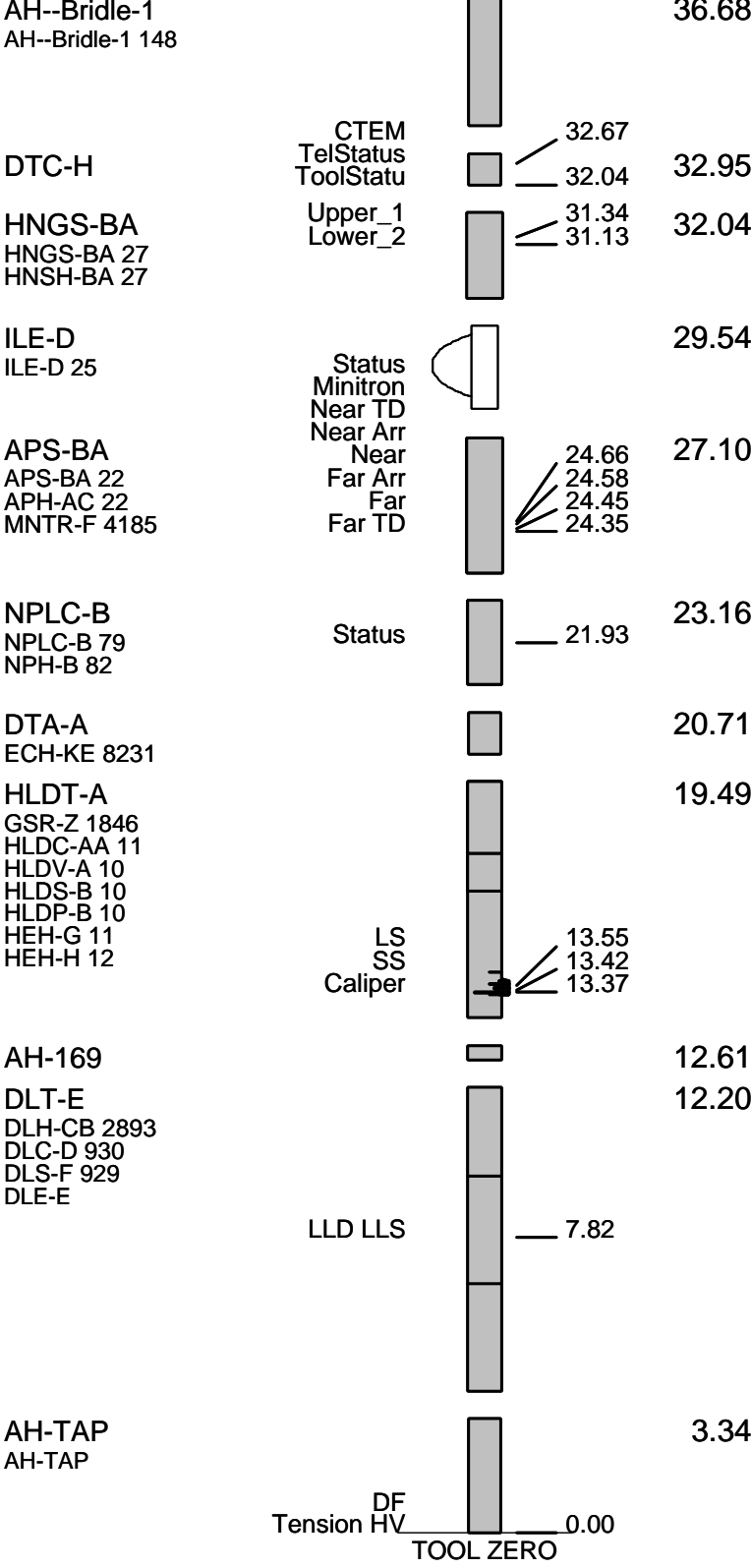
EQUIPMENT DESCRIPTION

RUN 1
SURFACE EQUIPMENT
LCM-AA
SFT-281 24
SFT-178 4722
GSR-U 135
DTM-B

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT		41.30
AH--Bridle-2		40.41
AH--Bridle-2 612		



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

Input DLIS Files

DEFAULT	SPLICE_DLL_LDL_APS_025	FN:1	PRODUCER	25-Jul-2001 05:32	3522.7 M	2581.1 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_026PUP	FN:42	PRODUCER	25-Jul-2001 05:35	3522.7 M	2590.2 M
REDUCE	DLL_LDL_APS_HNGS_026PUP	FN:43	PRODUCER	25-Jul-2001 05:35	3522.7 M	2590.2 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

MAIN LOG

Tension (TENS)
10000 (LBF) 0

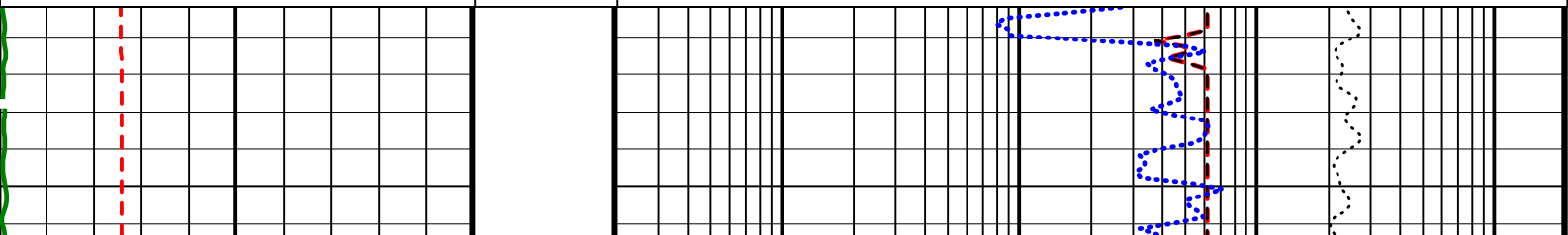
Laterolog Shallow Resistivity (LLS)
0.2 (OHMM) 2000

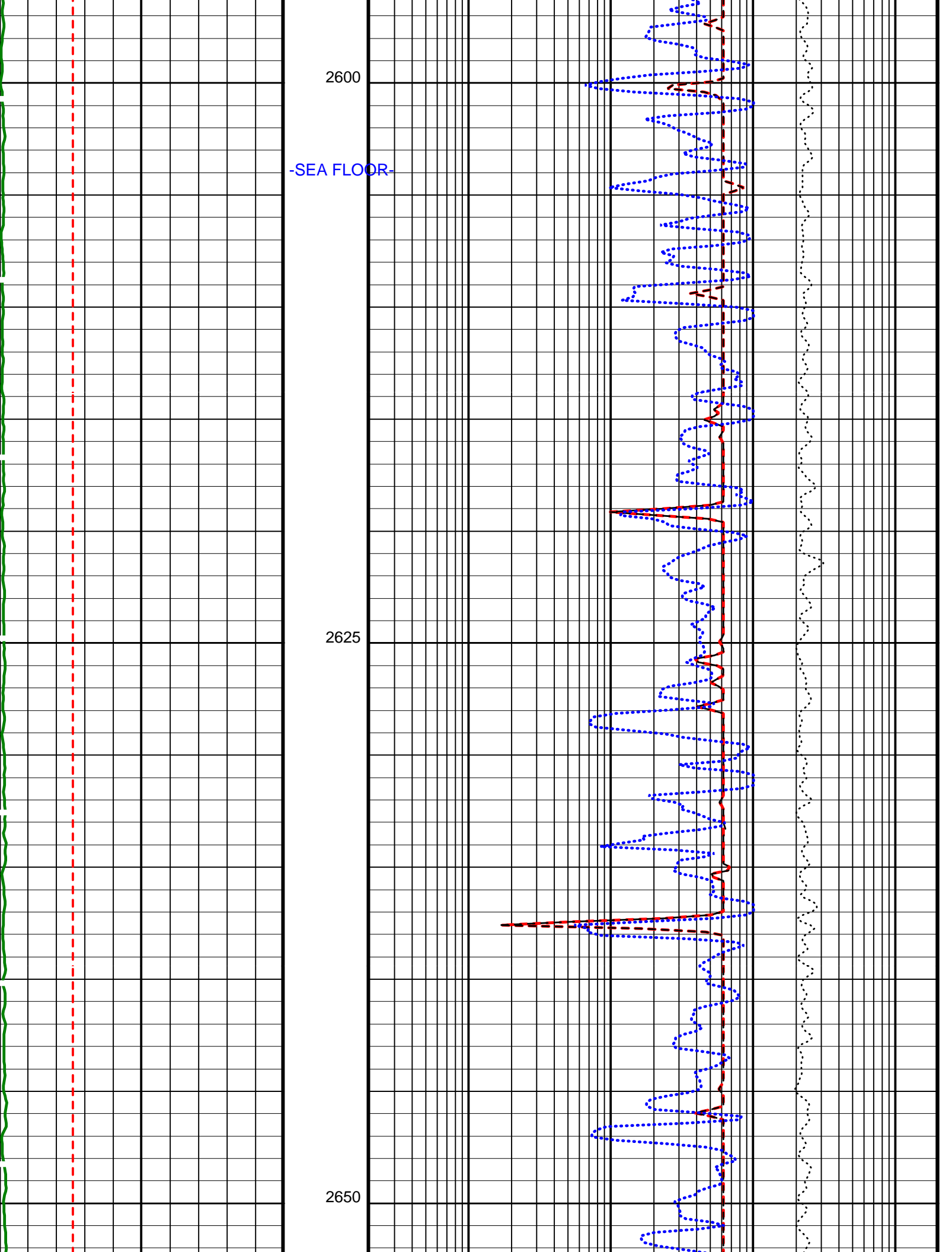
Laterolog Groningen Resistivity (LLG)
0.2 (OHMM) 2000

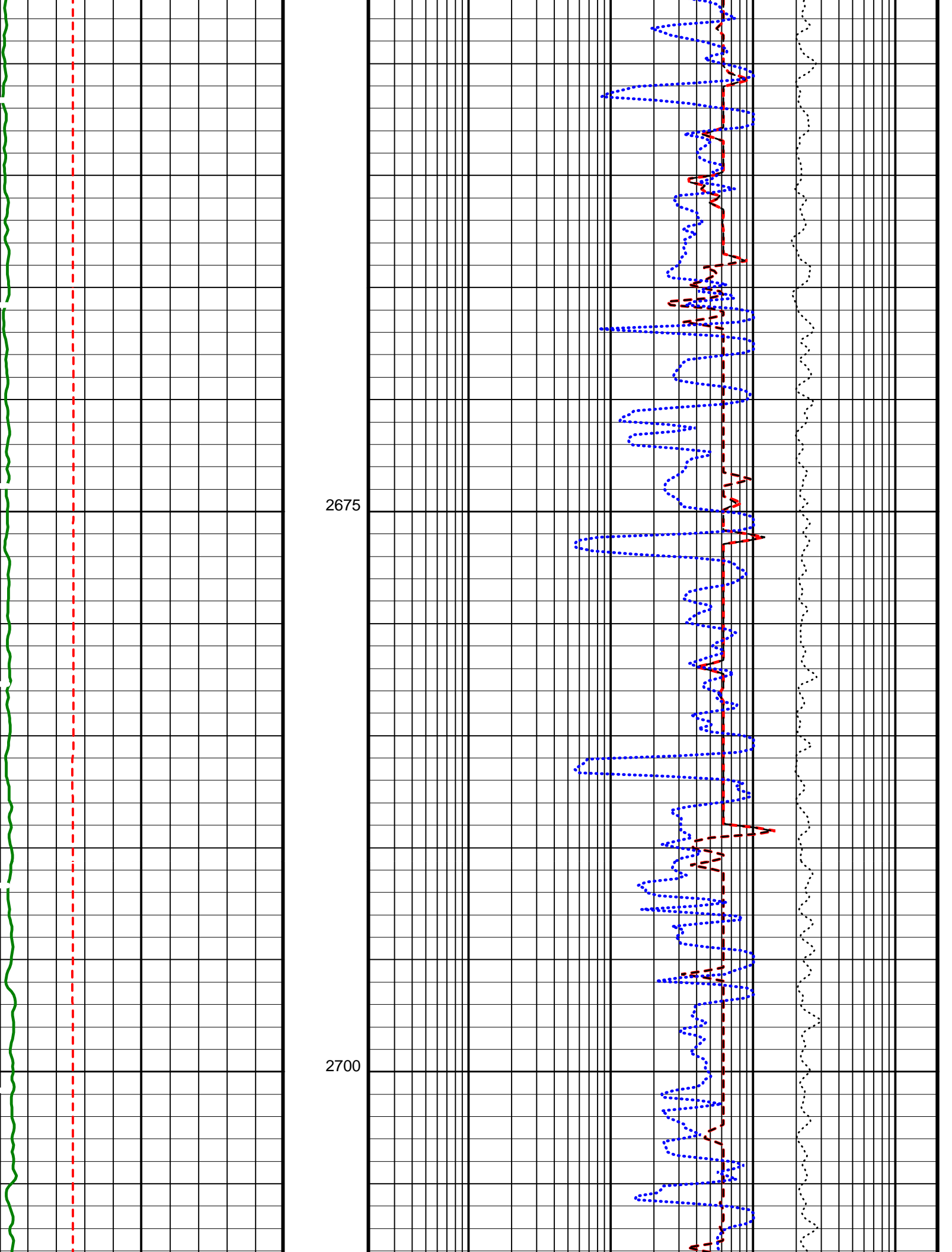
Laterolog Deep Resistivity (LLD)
0.2 (OHMM) 2000

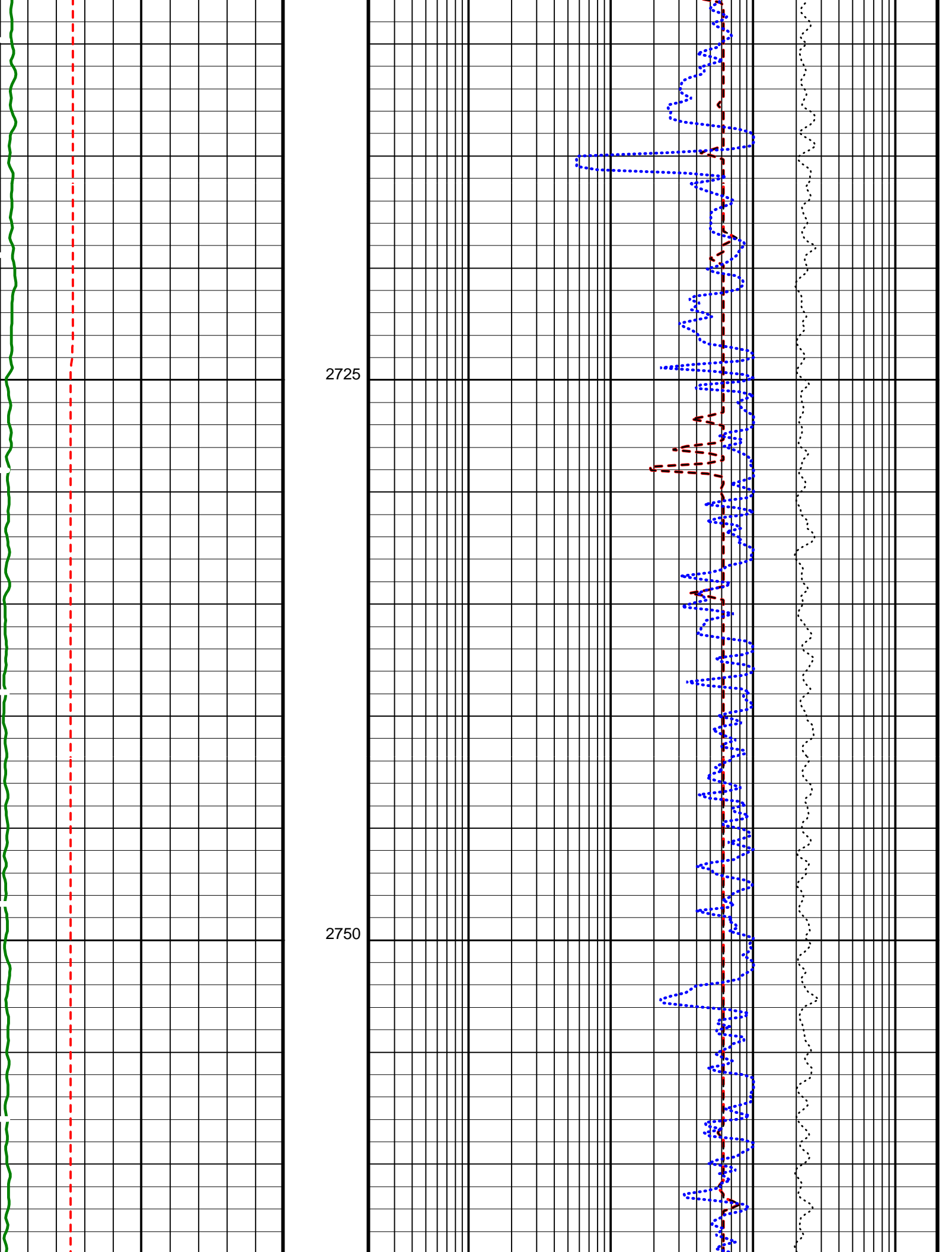
HNGS Spectroscopy Gamma Ray
(HSGR)
0 (GAPI) 100

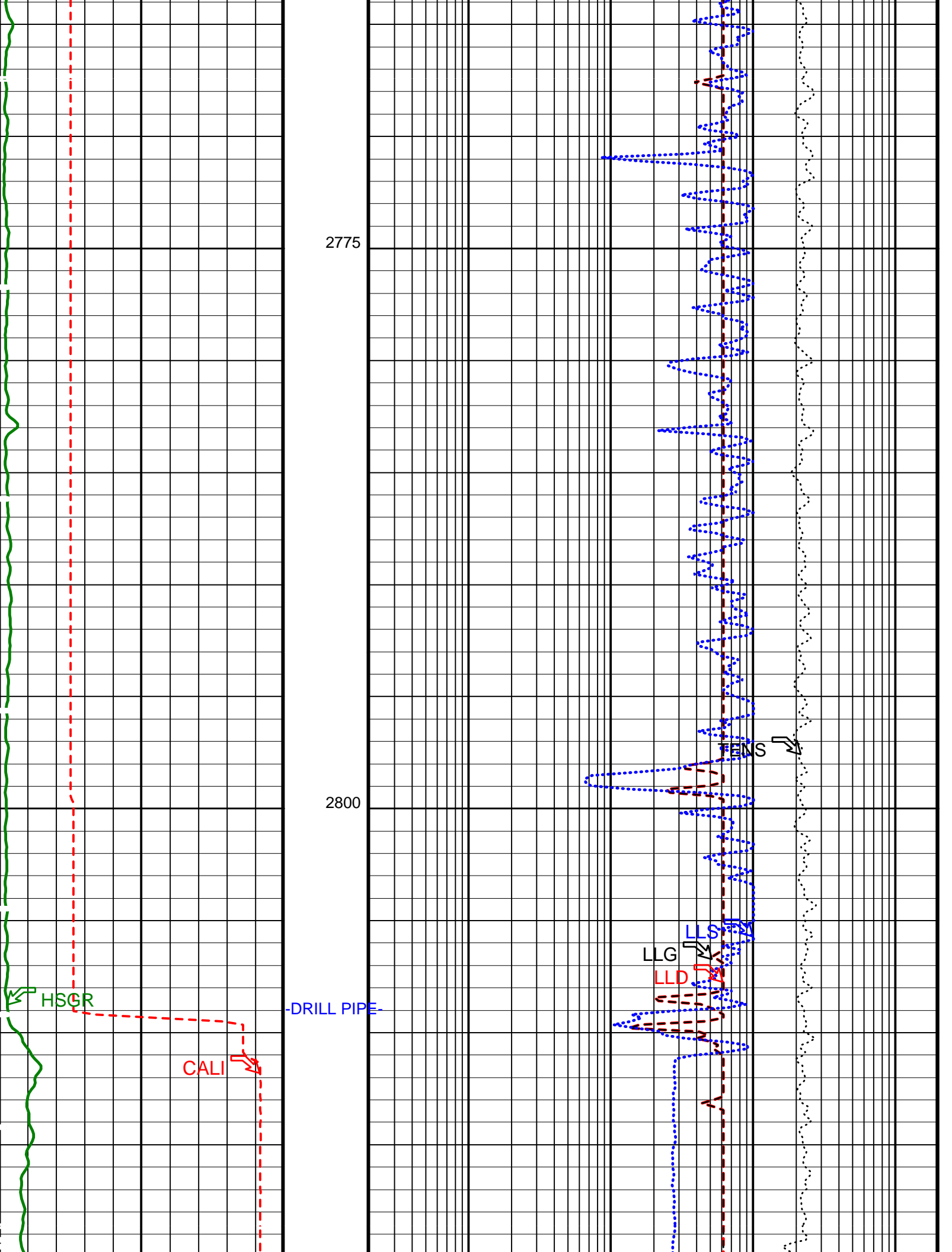
Caliper (CALI)
0 (IN) 20











2775

2800

HSCR

CALI

DRILL PIPE

LLG

LLD

LLS

LLS

LLS

LLS

LLS

LLS

LLS

LLS

LLS

LLS

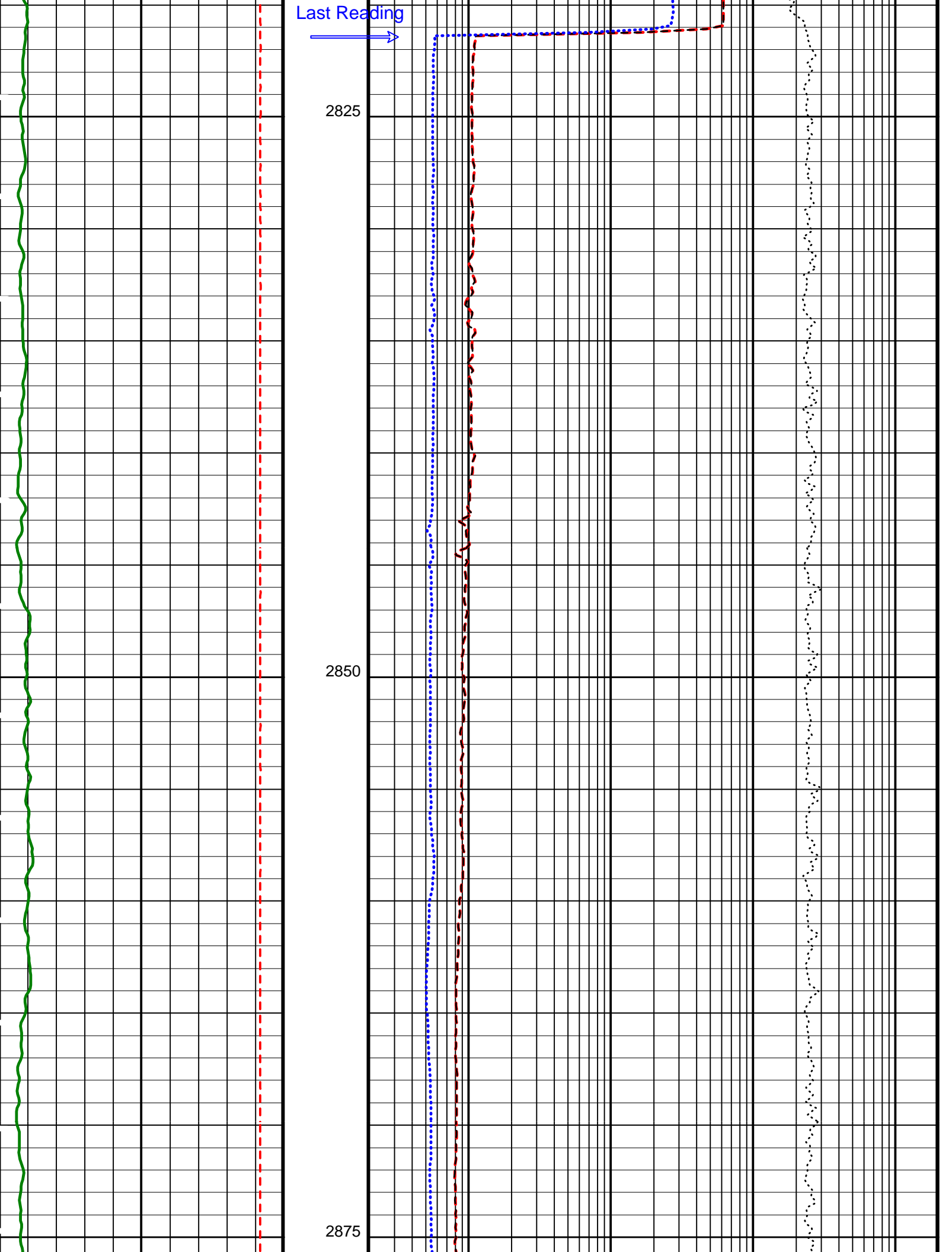
LLS

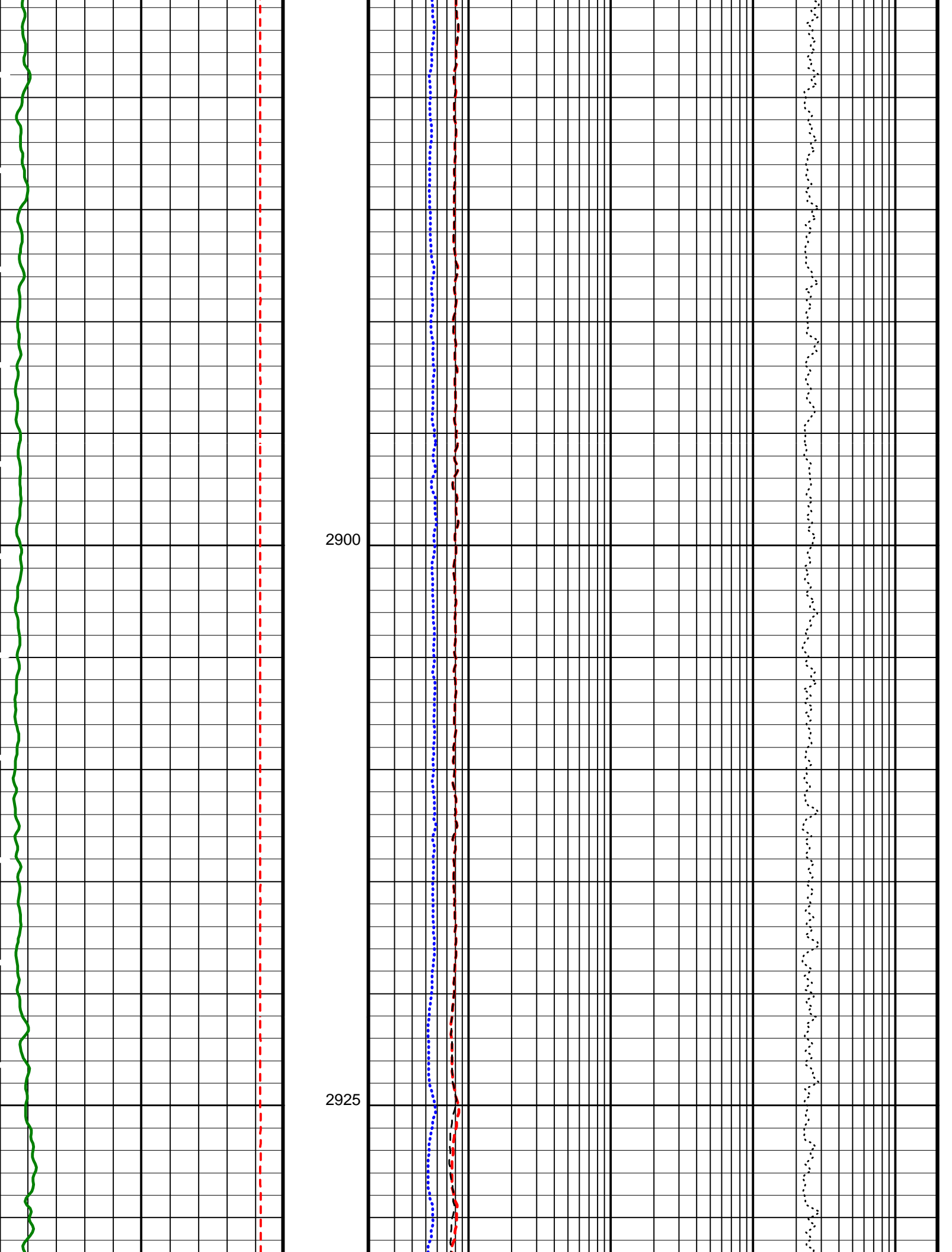
LLS

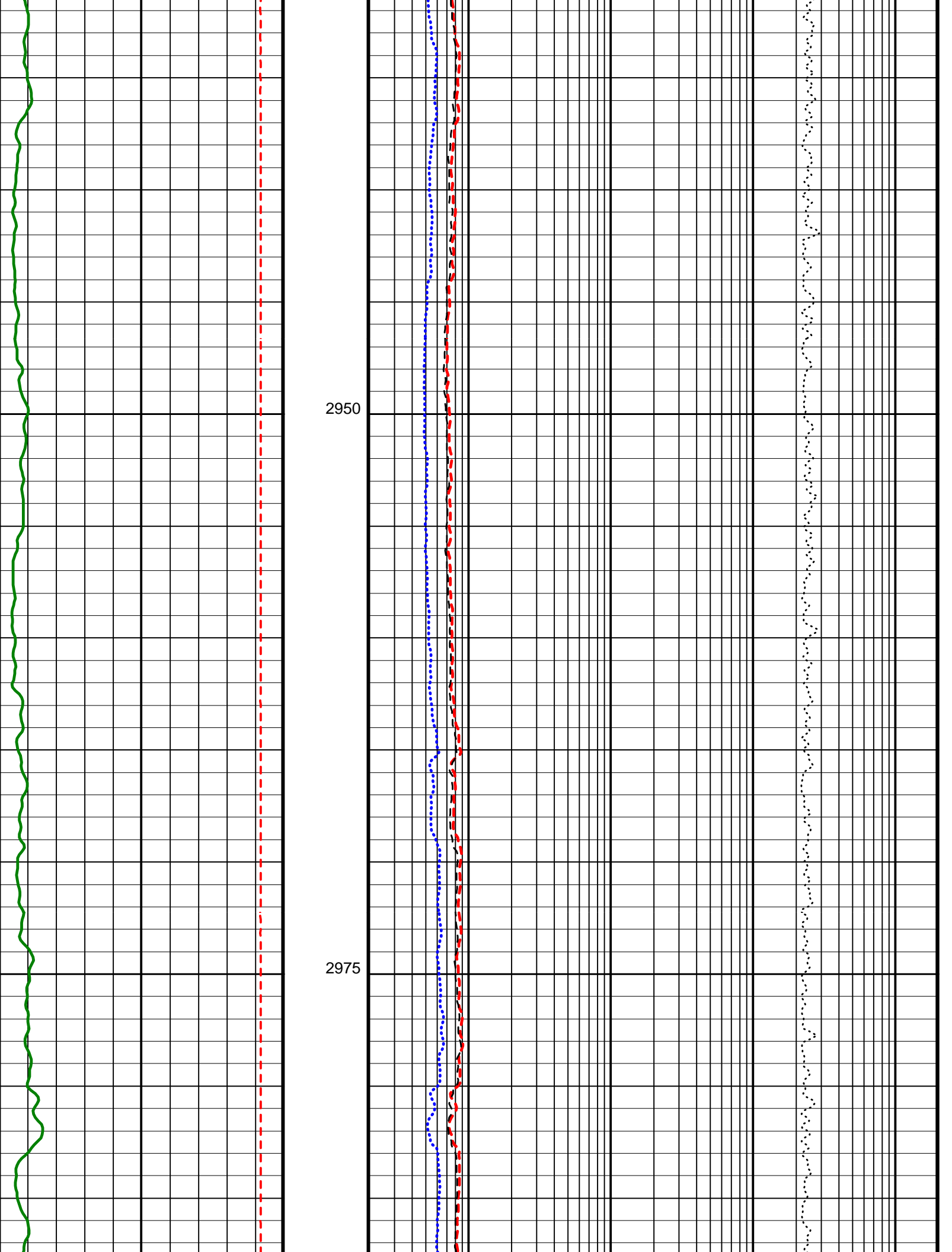
LLS

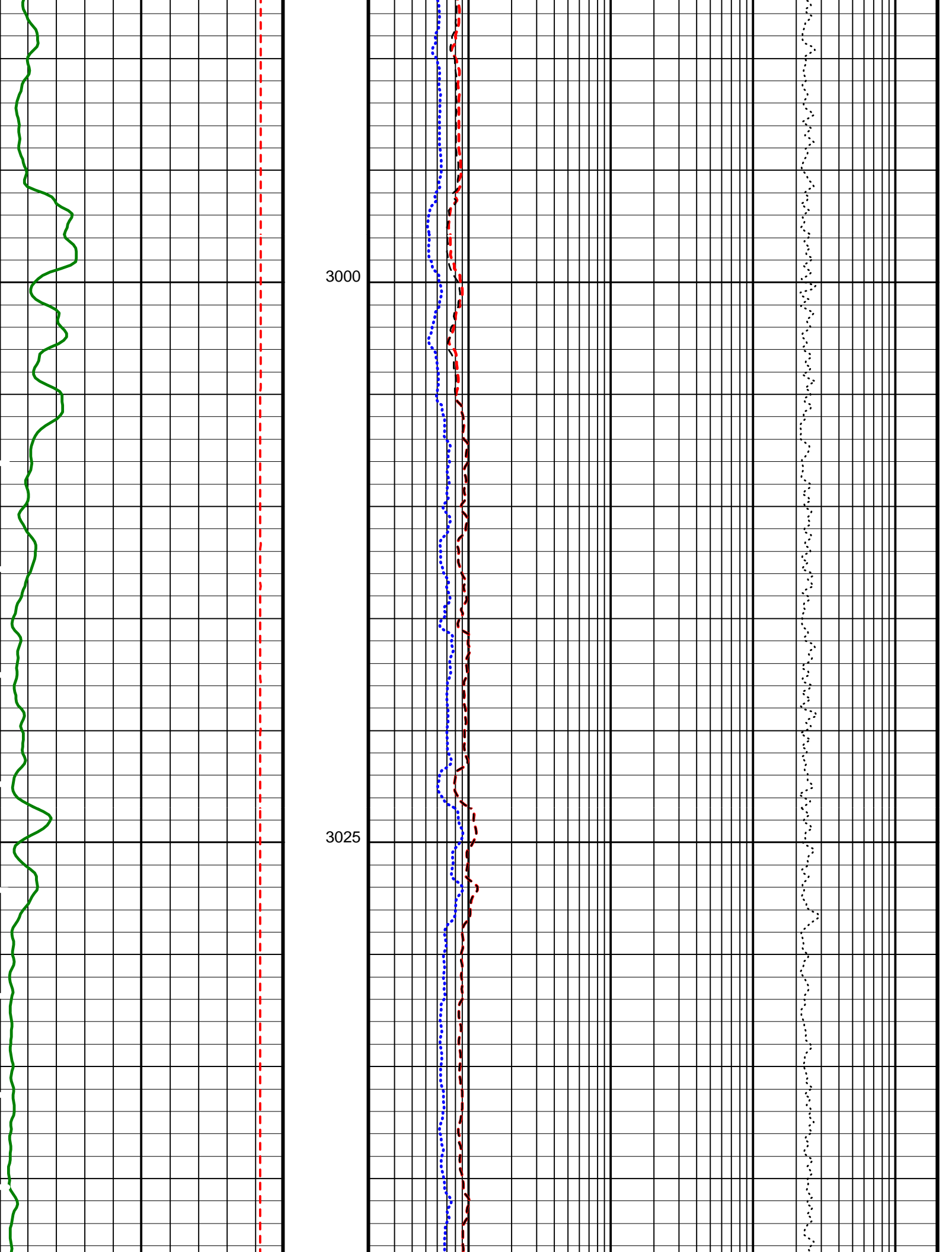
LLS

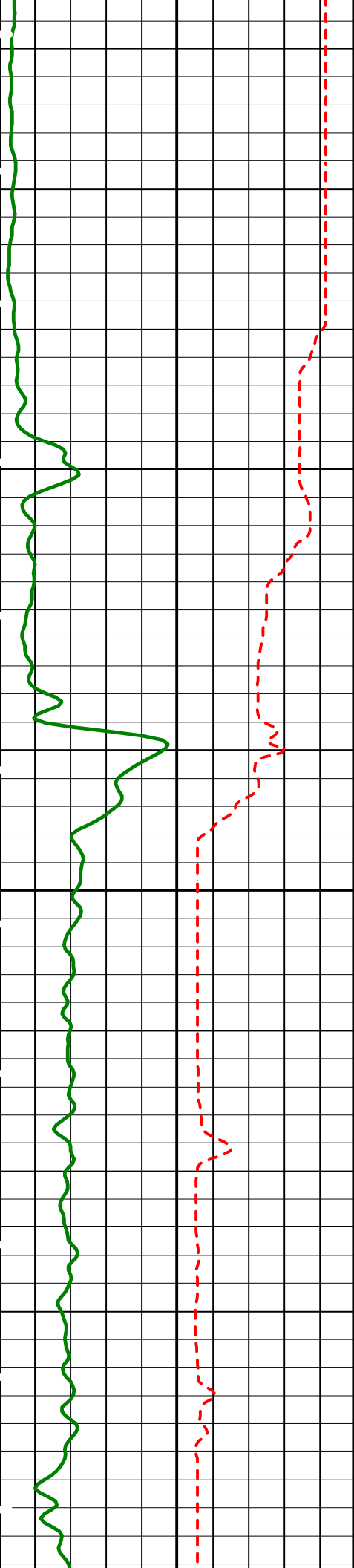
LLS





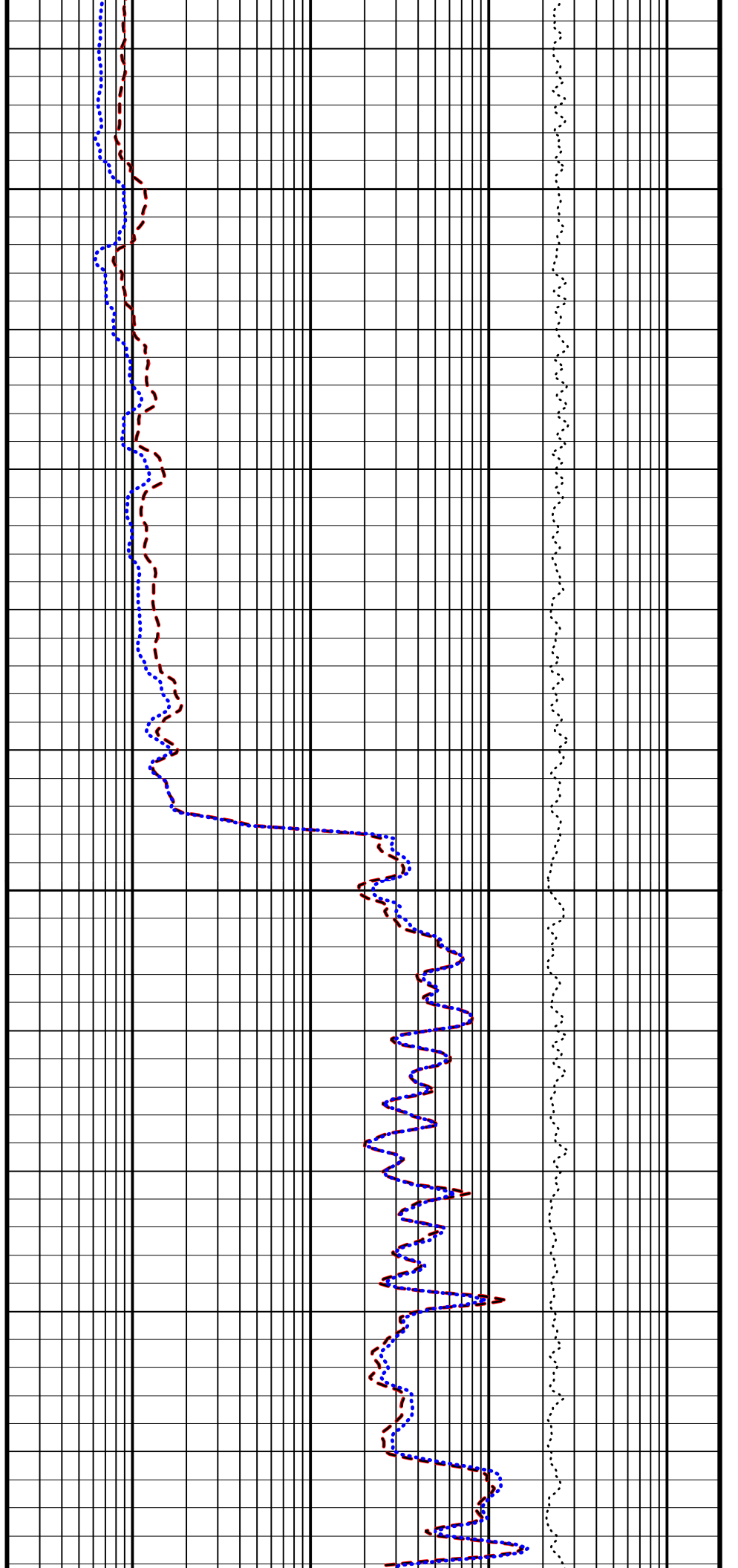


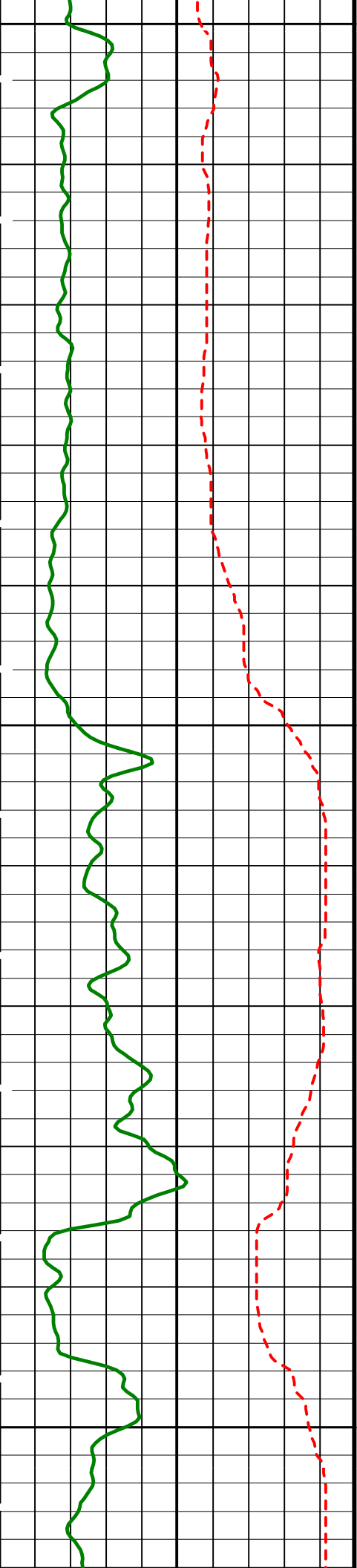




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3075

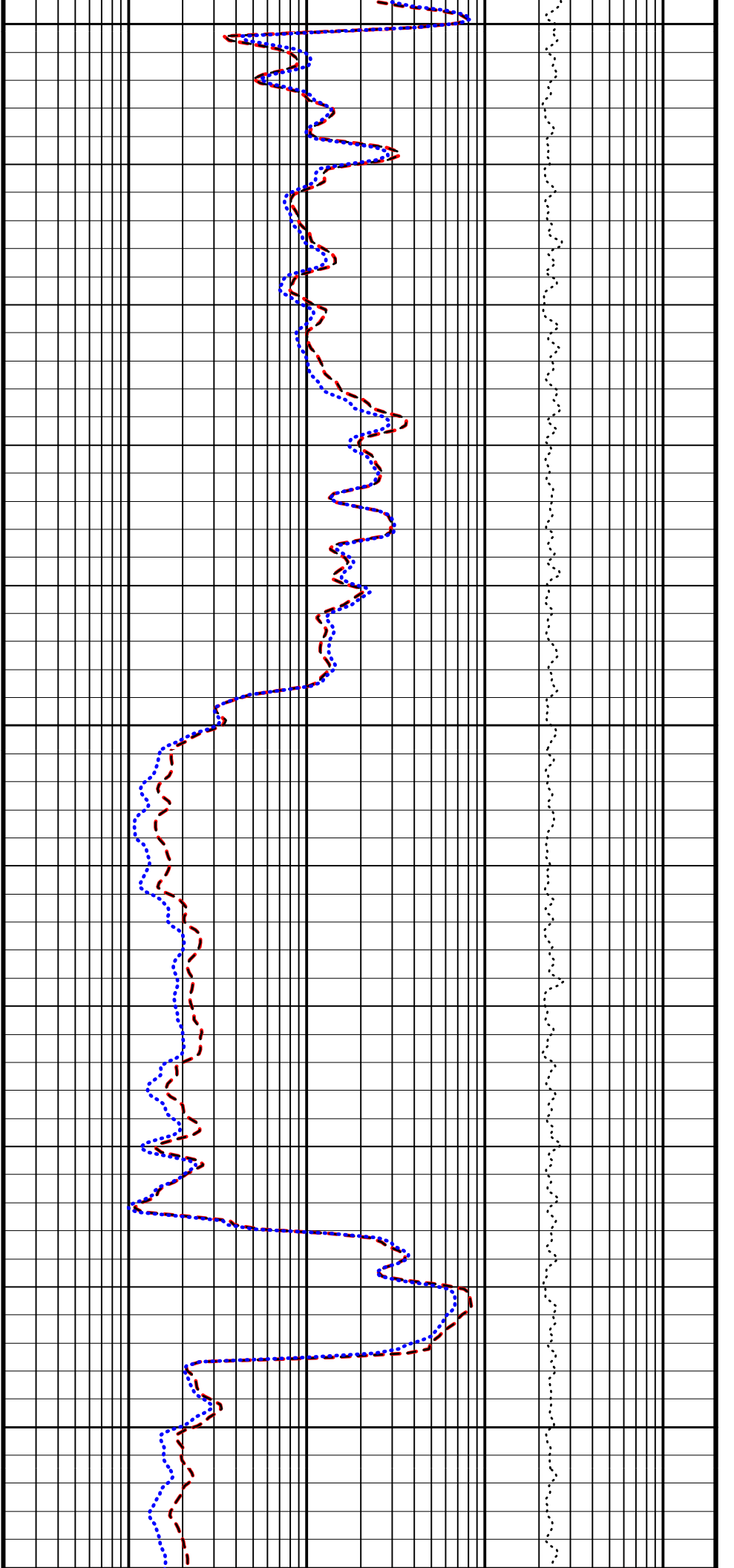


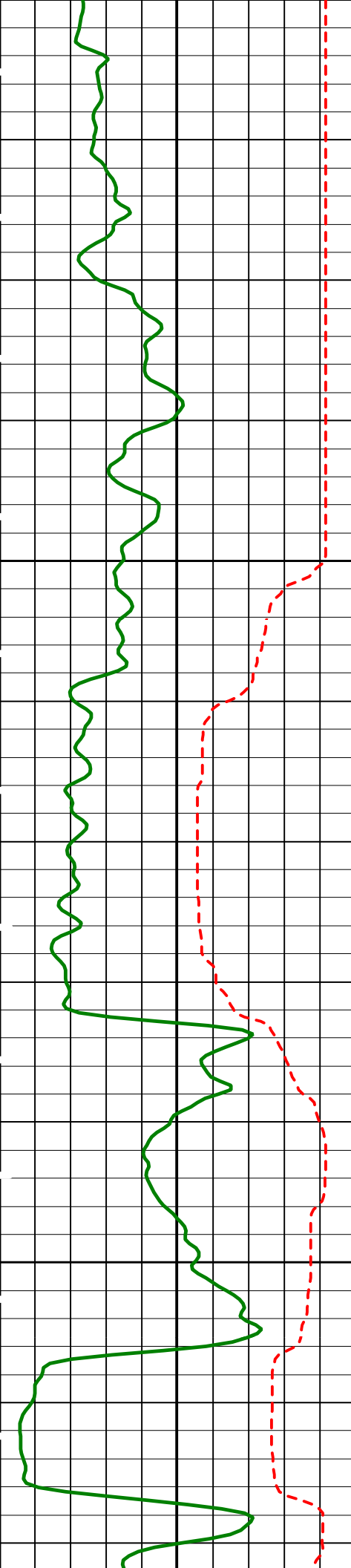


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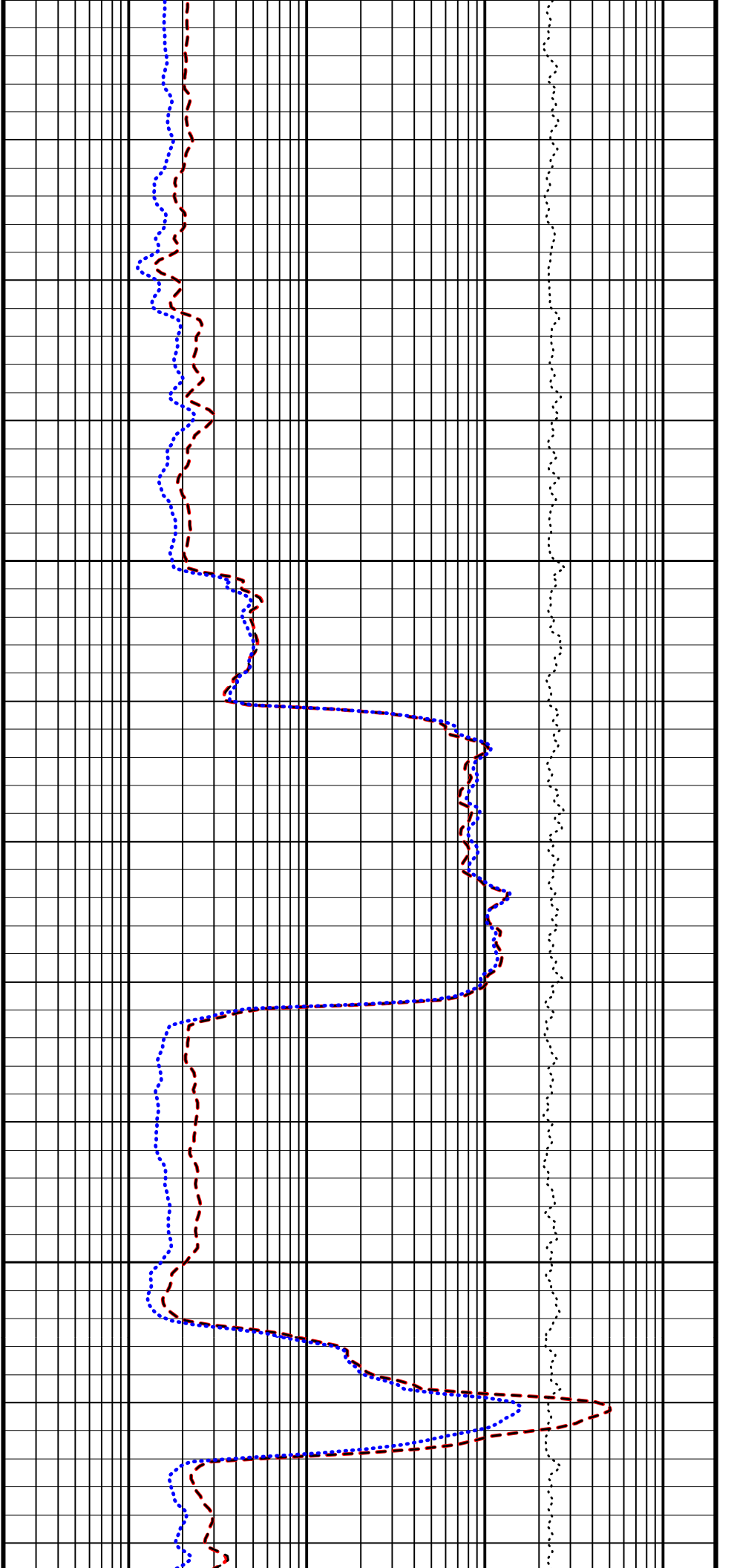
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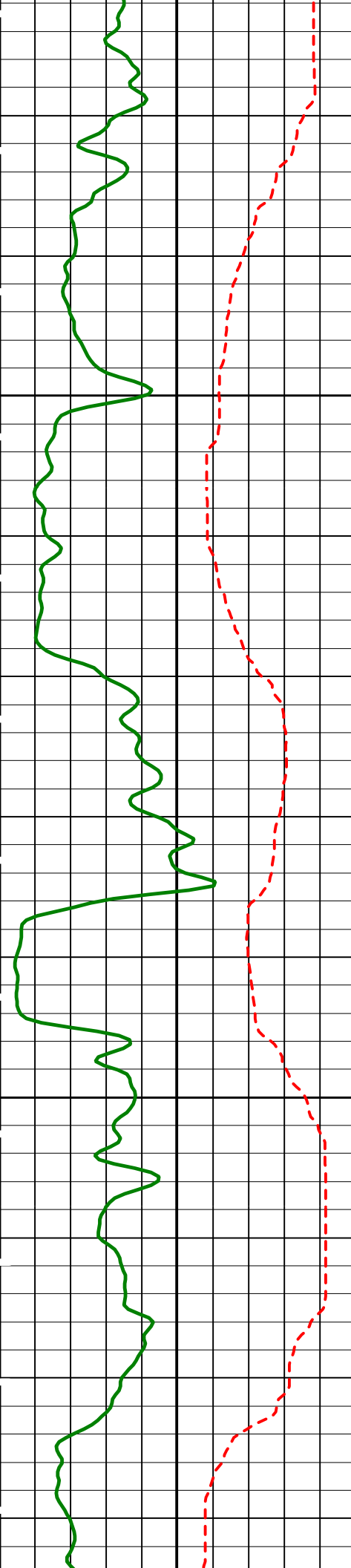




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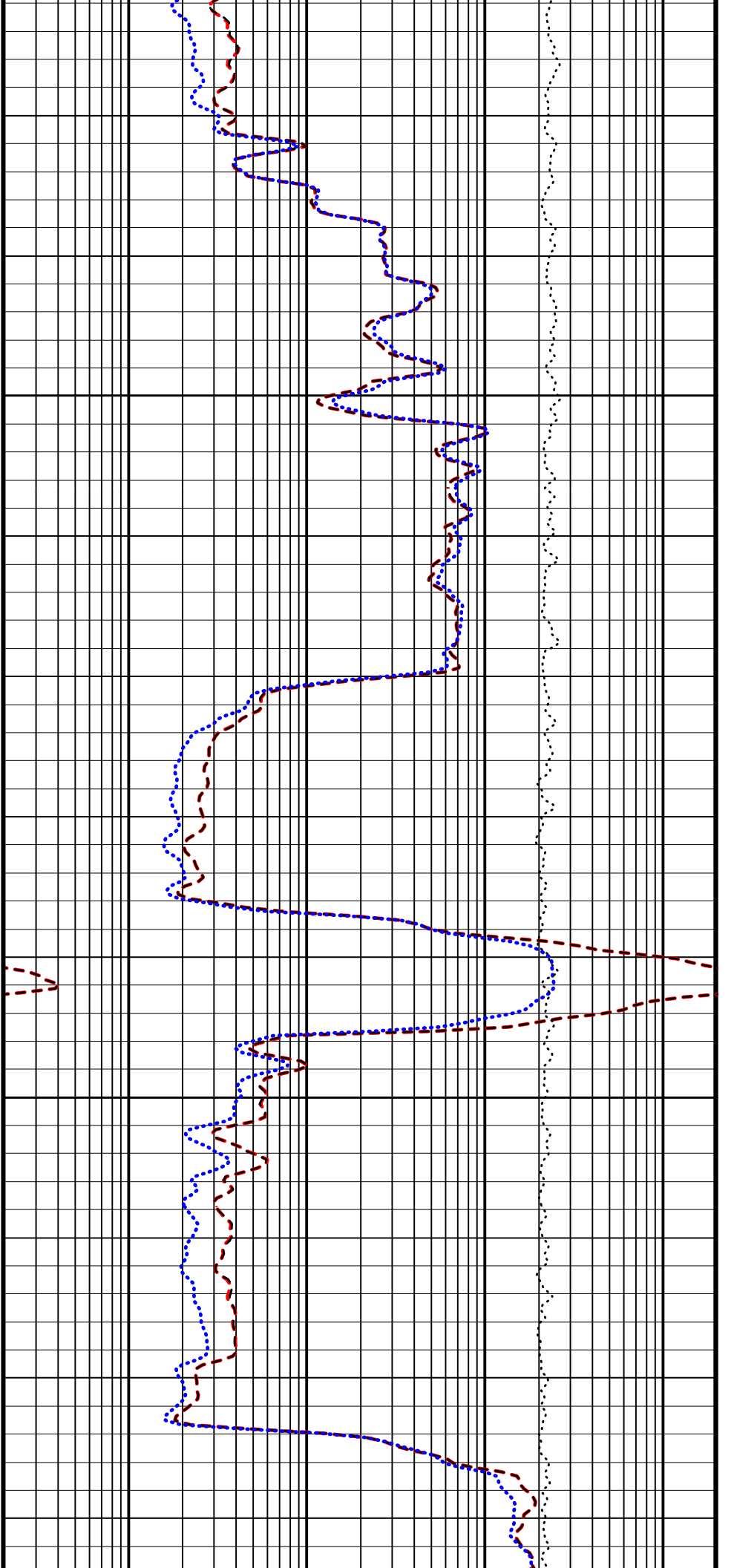
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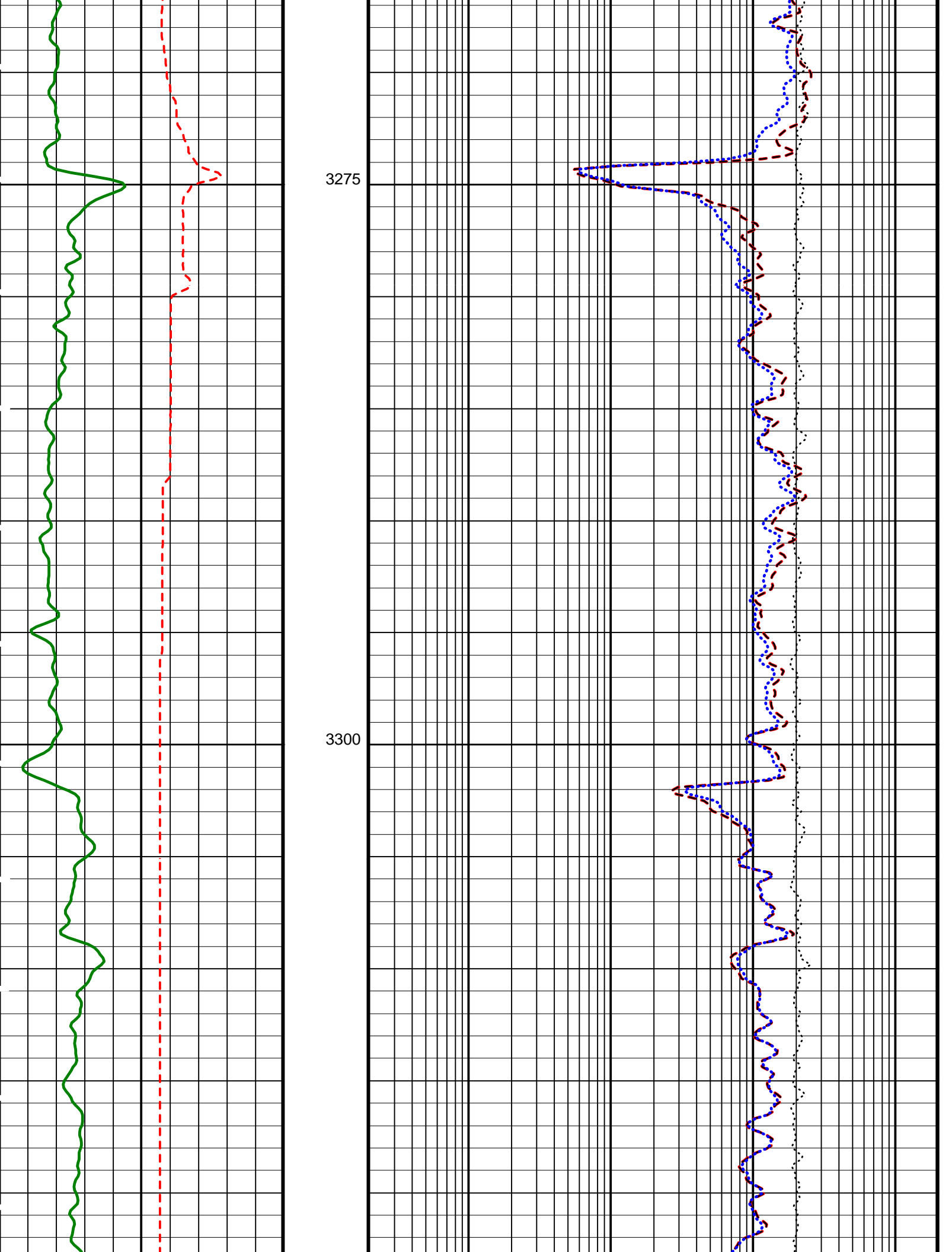


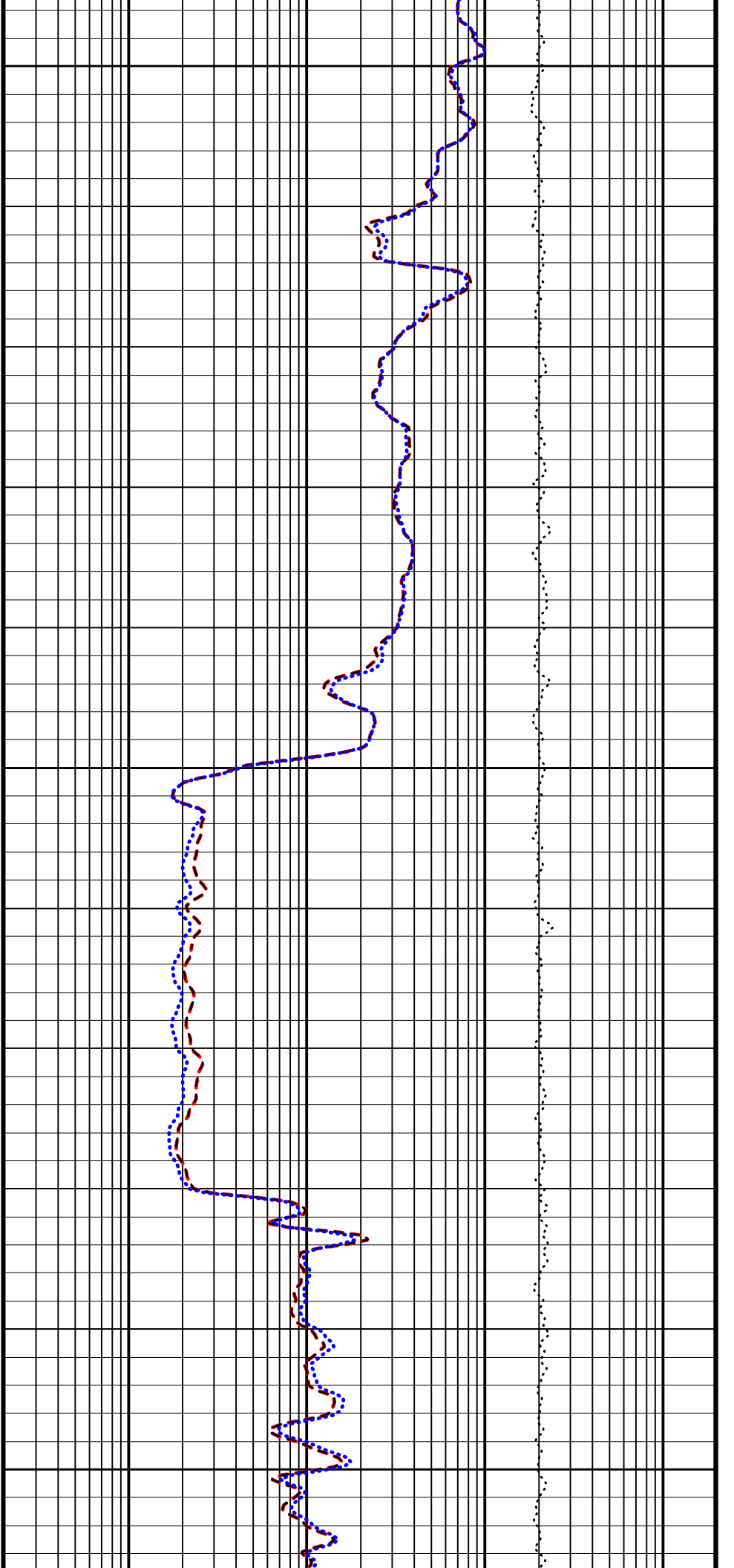


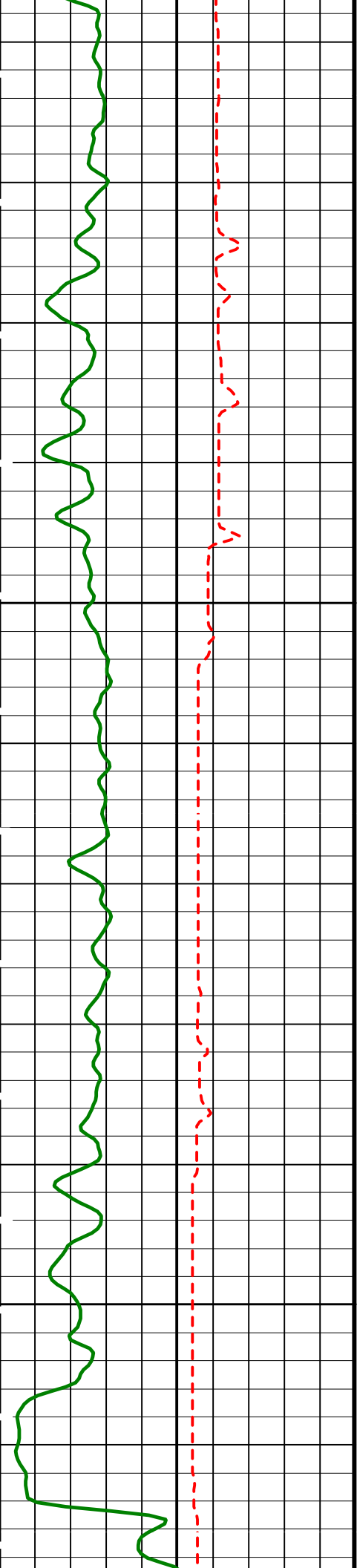
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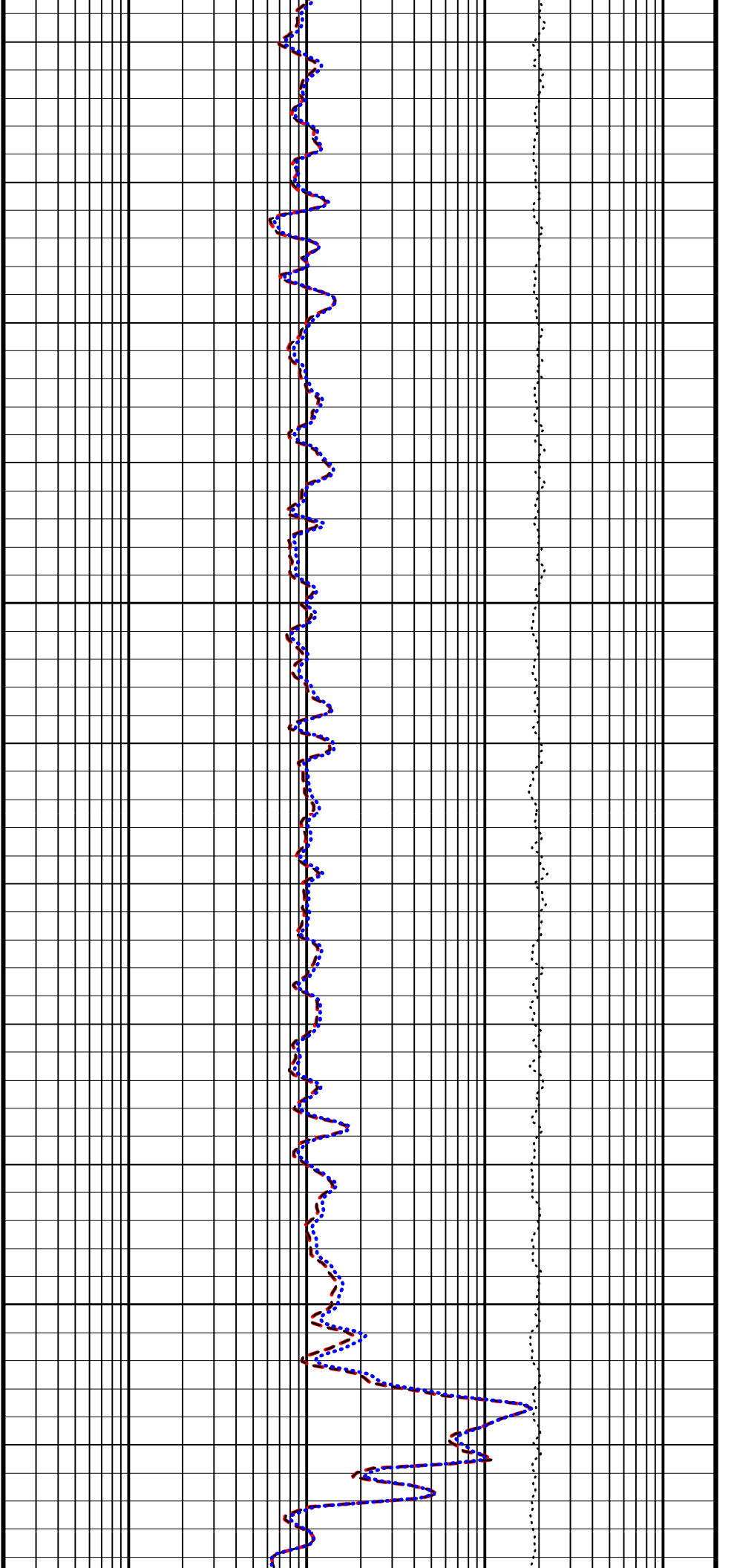


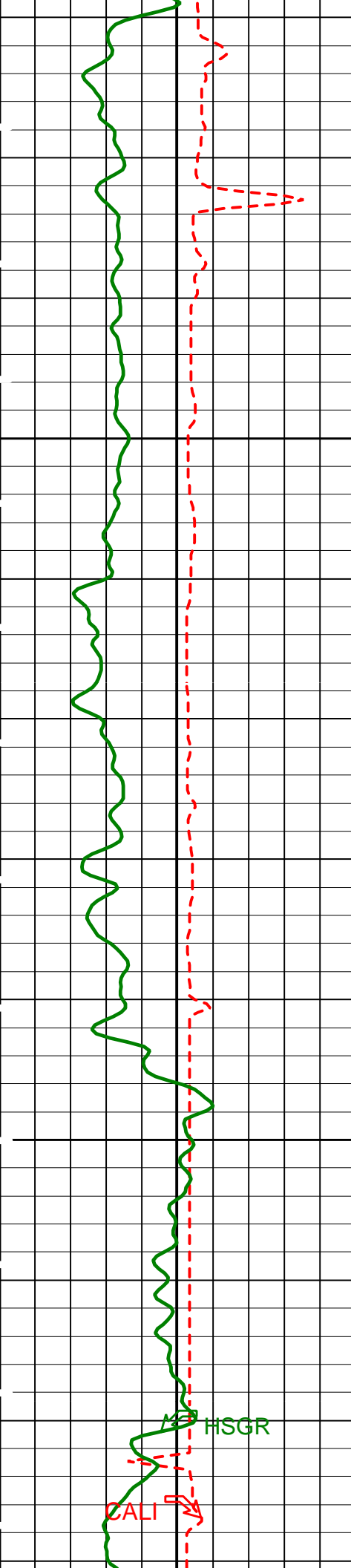




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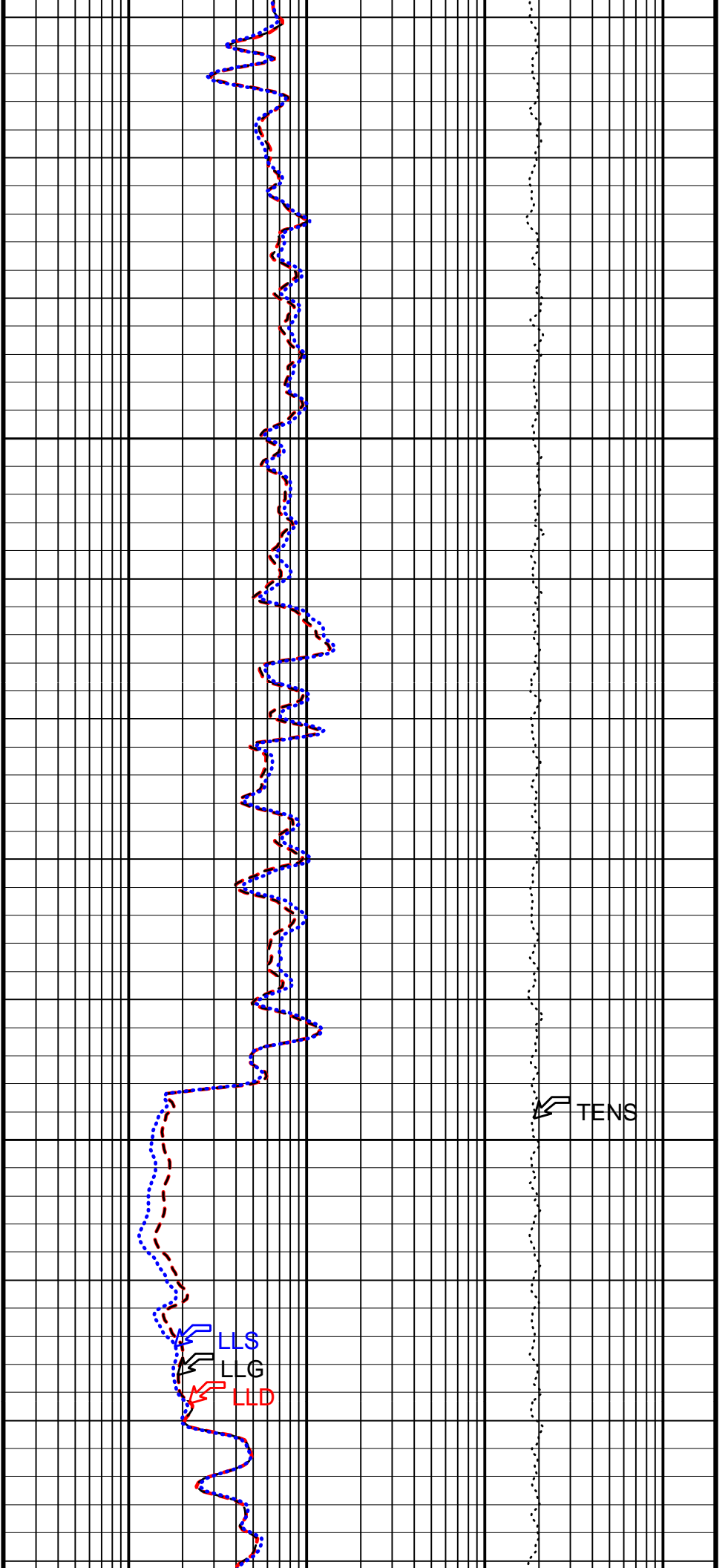
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3450

3475

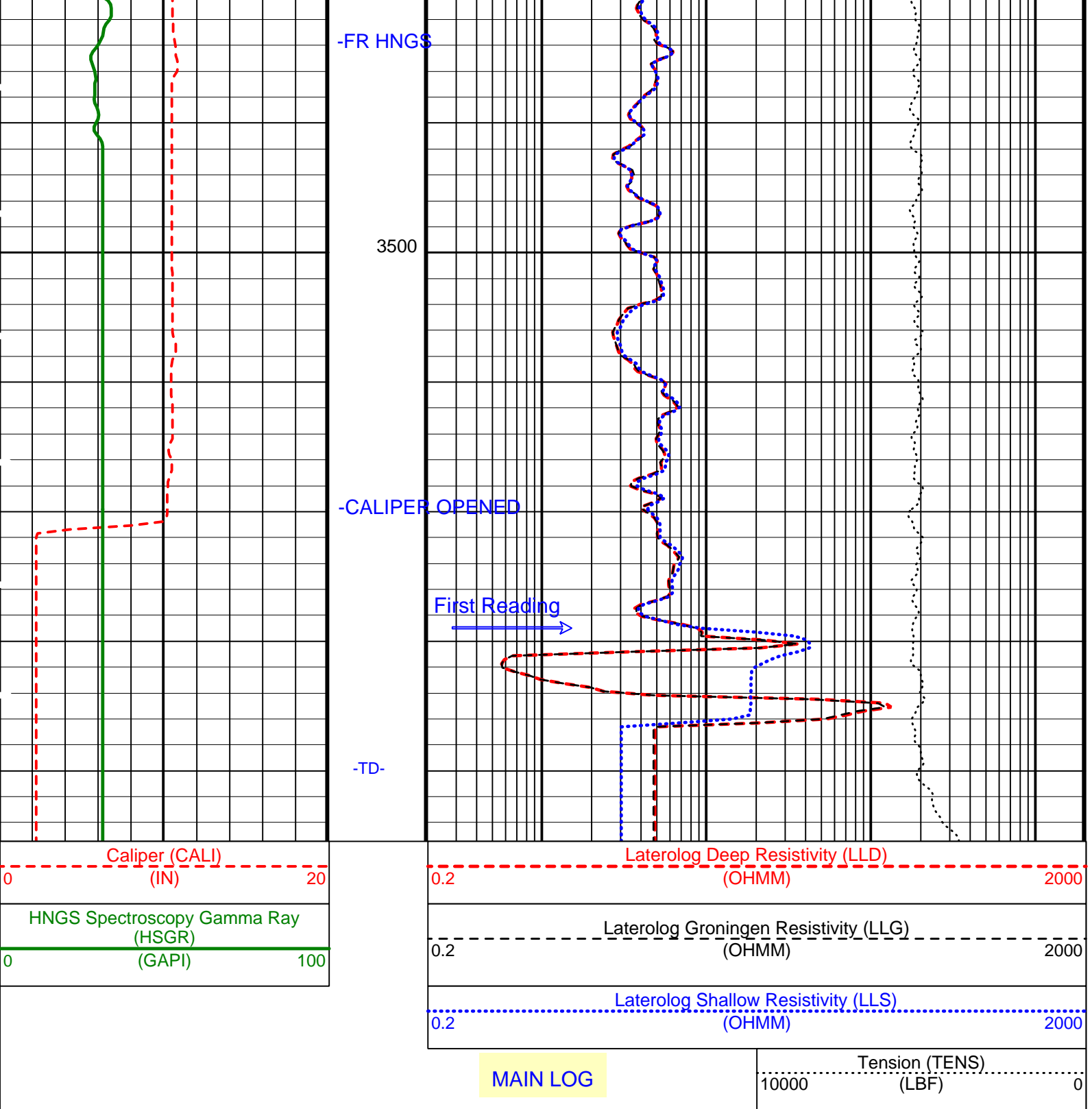


TENS

LLS

LLG

LLD



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
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	7.47657	%
D1TC	HNGS Detector 1 Calibration Temperature	15.7627	DEGC
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	211.807	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	6.59237	%
D2TC	HNGS Detector 2 Calibration Temperature	14.9664	DEGC
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.368	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.07	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	-0.000954095	
HALF	HNGS Alpha Filter Length	60	IN
HATIM	HNGS Marquardt Accumulation Time	600	S
HCRC	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	
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	19.4971	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.99201	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	19.8566	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.984299	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.00011377	
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	1.06295	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.97096	

Format: DLT_Log Vertical Scale: 1:200 Graphics File Created: 25-Jul-2001 05:36

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_025	FN:1	PRODUCER	25-Jul-2001 05:32	3522.7 M	2581.1 M
Output DLIS Files						
DEFAULT	DLL_LDL_APS_HNGS_026PUP	FN:42	PRODUCER	25-Jul-2001 05:35		
REDUCE	DLL_LDL_APS_HNGS_026PUP	FN:43	PRODUCER	25-Jul-2001 05:35		

Input DLIS Files						
DEFAULT	DLL_LDL_APS_HNGS_006LUP	FN:8	PRODUCER	23-Jul-2001 17:29	3031.2 M	2903.5 M
Output DLIS Files						
DEFAULT	DLL_LDL_APS_HNGS_021PUP	FN:36	PRODUCER	25-Jul-2001 05:01	3033.2 M	2912.5 M
REDUCE	DLL_LDL_APS_HNGS_021PUP	FN:37	PRODUCER	25-Jul-2001 05:01	3033.2 M	2912.5 M

OP System Version: 9C2-303			
MCM			

DLT-E 9C2-303
DTA-A 9C2-303
APS-BA 9C2-303
DTC-H 9C2-303

HLDT-A 9C2-303
NPLC-B 9C2-303
HNGS-BA 9C2-303

PIP SUMMARY

Time Mark Every 60 S

Tension (TENS)
(LBF) 10000 0

REPEAT SECTION

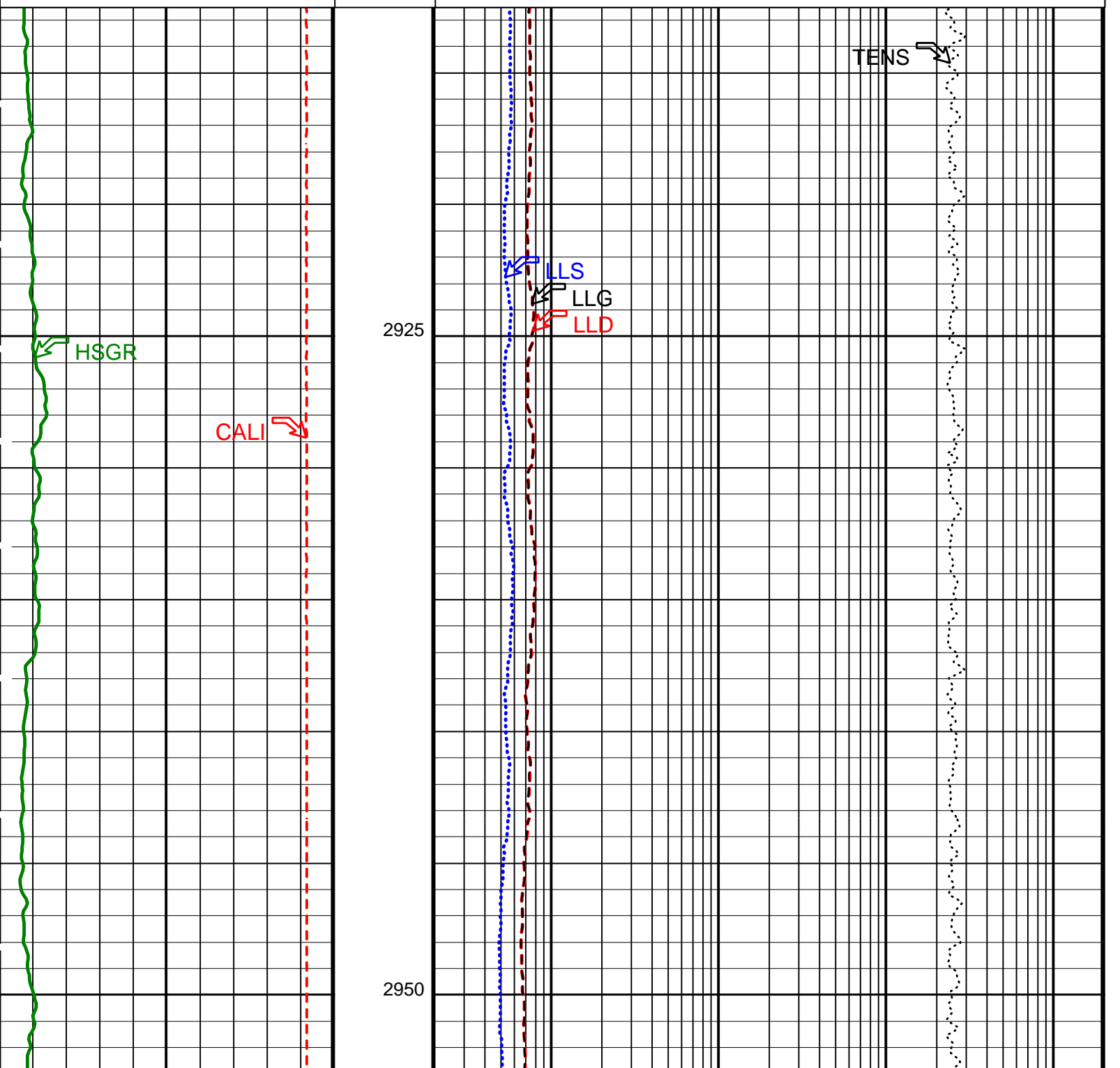
HNGS Spectroscopy Gamma Ray
(HSGR)
(GAPI) 0 100

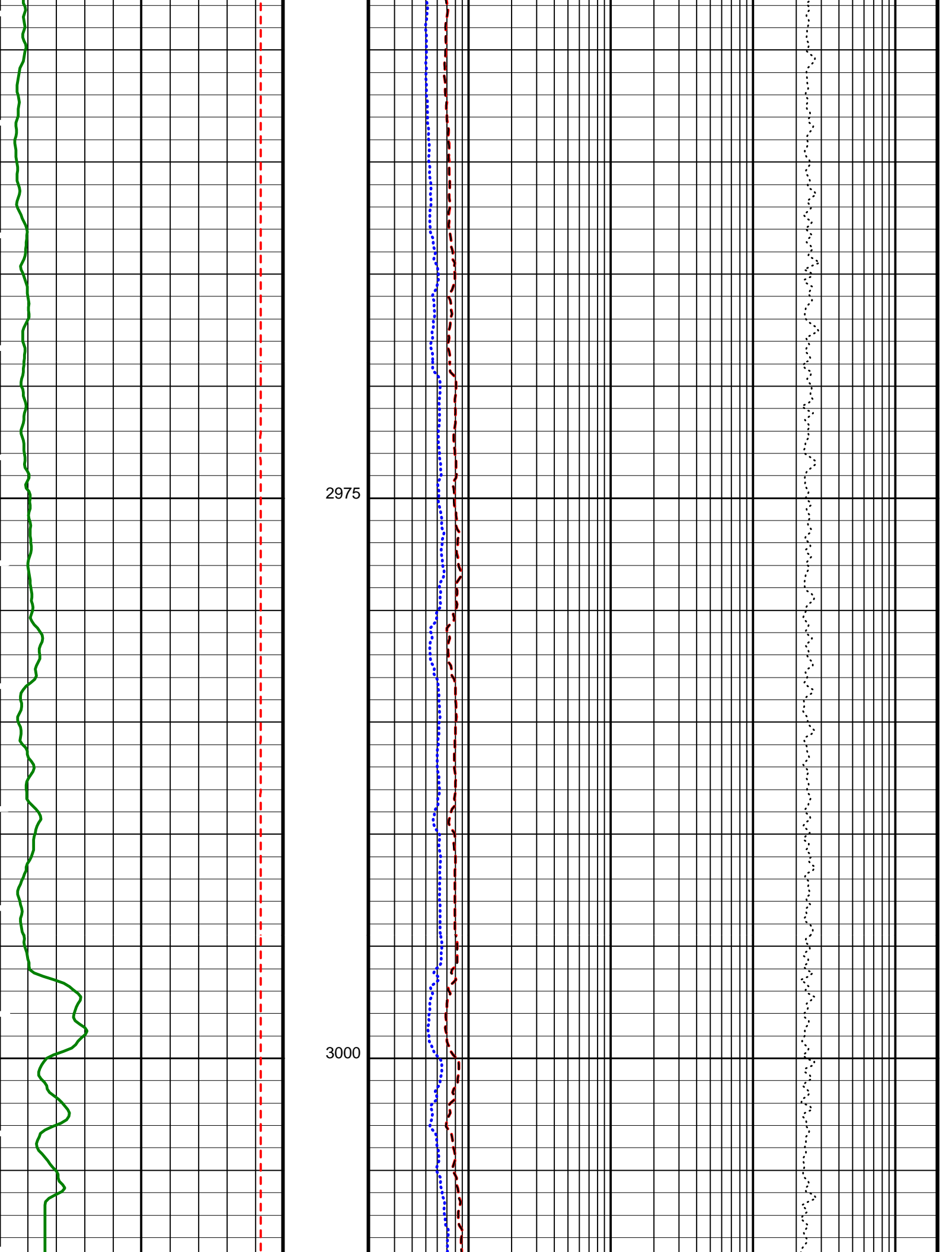
Caliper (CALI)
(IN) 0 20

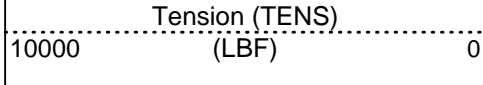
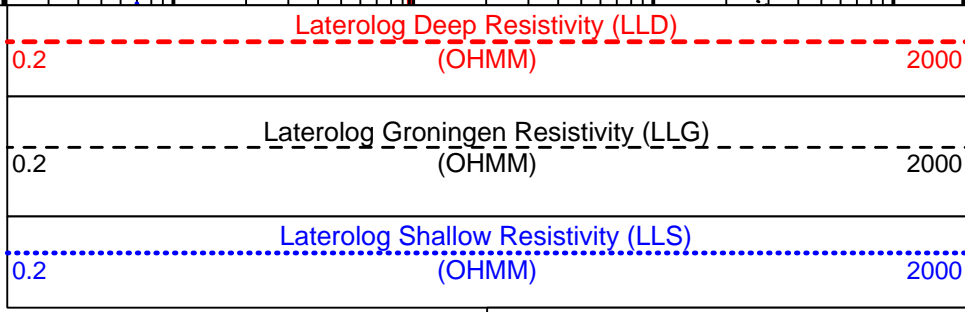
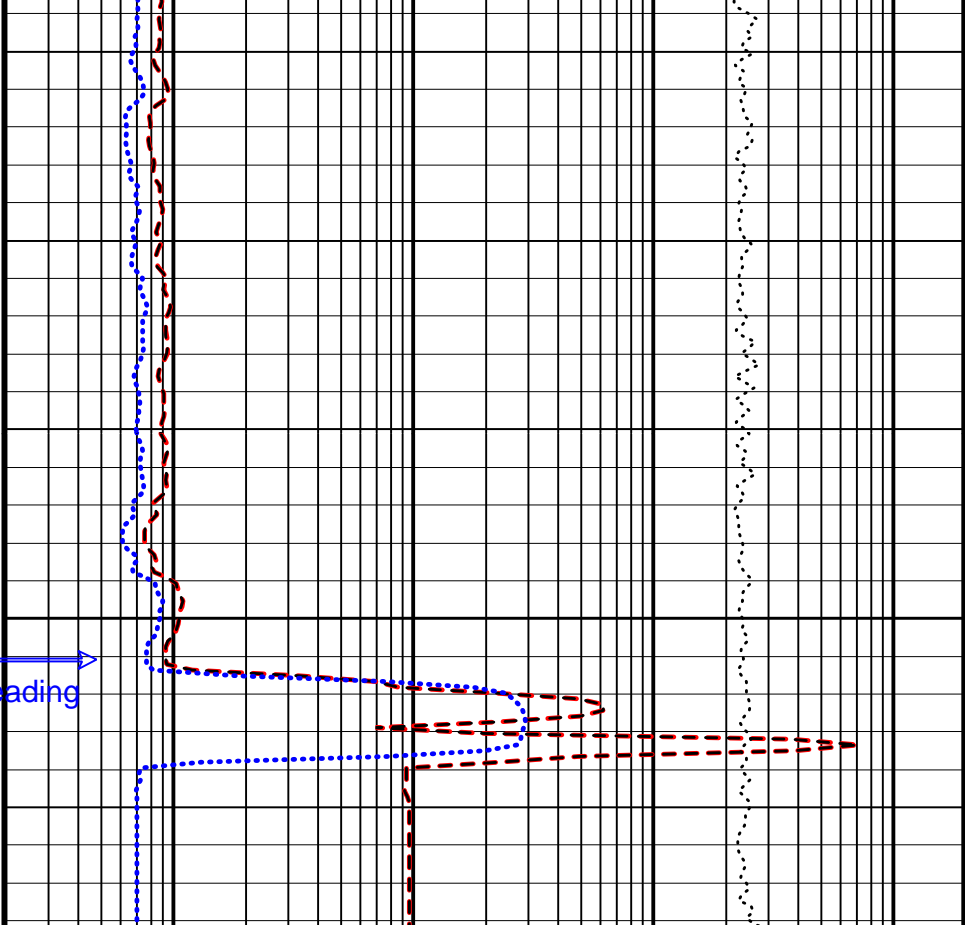
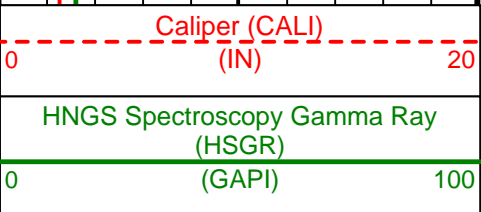
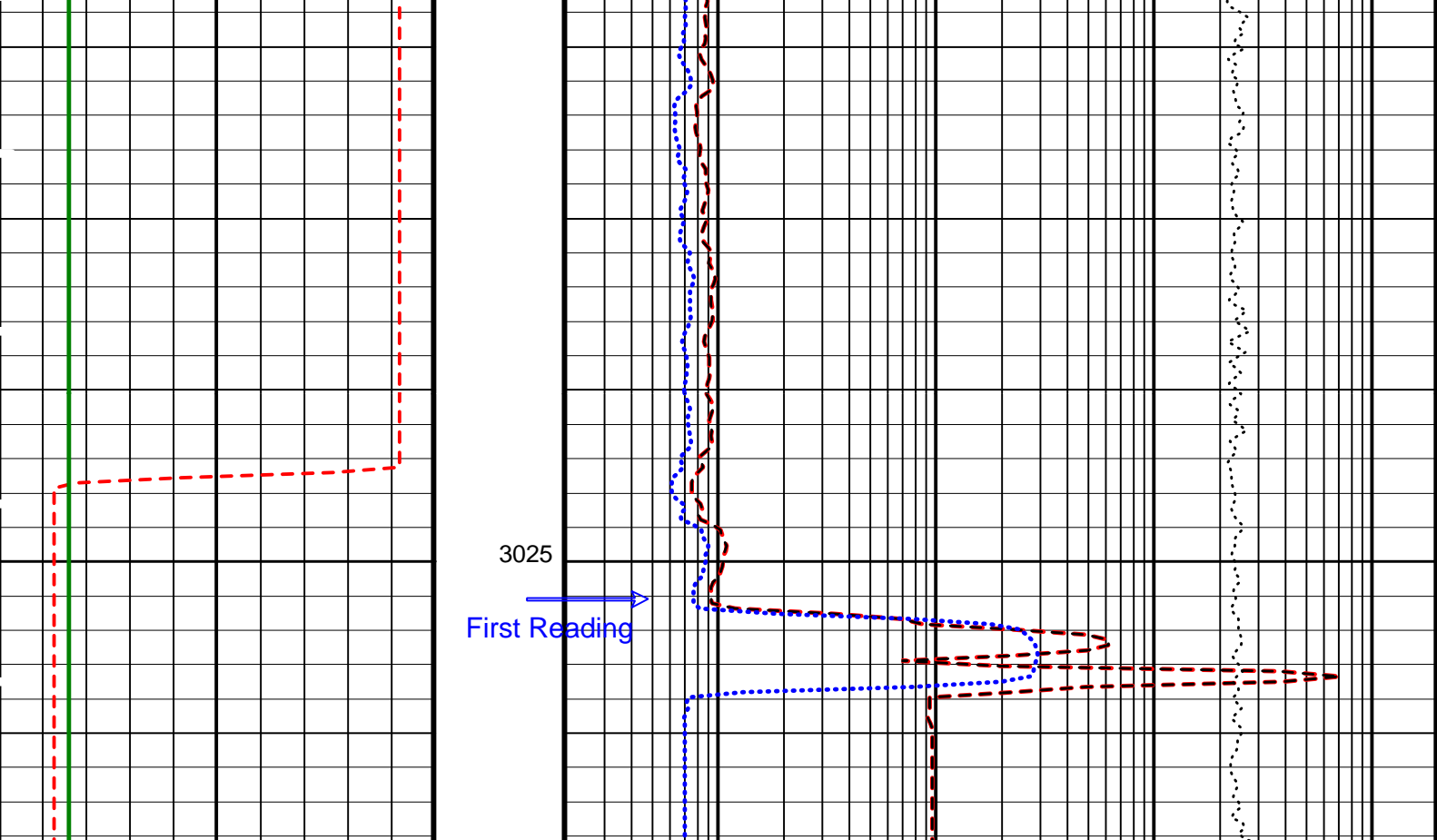
Laterolog Shallow Resistivity (LLS)
(OHMM) 0.2 2000

Laterolog Groningen Resistivity (LLG)
(OHMM) 0.2 2000

Laterolog Deep Resistivity (LLD)
(OHMM) 0.2 2000







REPEAT SECTION

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
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	7.47657 %
D1TC	HNGS Detector 1 Calibration Temperature	15.7627 DEGC
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	211.807
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	6.59237 %
D2TC	HNGS Detector 2 Calibration Temperature	14.9664 DEGC
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.368
DBCC	HNGS Barite Constant Correction Flag	NONE
DFD	Drilling Fluid Density	1.07 G/C3
DO	Depth Offset for Playback	2.0 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	-0.000954095	
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	7.99225e-033	
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	19.4971	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.99201	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	19.8566	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.984299	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.00011377	
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	1.06295	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.97096	

Format: DLT_Log Vertical Scale: 1:200 Graphics File Created: 25-Jul-2001 05:01

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_006LUP	FN:8	PRODUCER	23-Jul-2001 17:29	3031.2 M	2903.5 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_HNGS_021PUP	FN:36	PRODUCER	25-Jul-2001 05:01		
REDUCE	DLL_LDL_APS_HNGS_021PUP	FN:37	PRODUCER	25-Jul-2001 05:01		

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
DUAL LATEROLOG - E Wellsite Calibration - DLT ELECTRONICS CALIBRATION Laterolog Measurement							
Before: 15-Jul-2001 0:11							
MEASURED LLD	31.62	N/A	31.96	N/A	N/A	0.9000	OHMM
MEASURED LLS	31.62	N/A	31.20	N/A	N/A	0.9000	OHMM
Hostile Environment Litho Density - A Wellsite Calibration - Background Measurement							
Master: 15-Jun-2001 20:40 Before: 14-Jul-2001 18:01							
LSW1 Background	100.0	88.23	89.44	N/A	N/A	0.03000	CPS
LSW2 Background	105.0	92.91	93.54	N/A	N/A	0.03000	CPS
LSW3 Background	210.0	180.2	179.9	N/A	N/A	0.03000	CPS
LSW4 Background	290.0	241.8	238.2	N/A	N/A	0.03000	CPS
LSW5 Background	610.0	534.7	531.6	N/A	N/A	0.03000	CPS
SSW1 Background	100.0	87.60	86.10	N/A	N/A	0.03000	CPS
SSW2 Background	200.0	171.6	170.6	N/A	N/A	0.03000	CPS
SSW3 Background	530.0	453.1	451.3	N/A	N/A	0.03000	CPS
SSW4 Background	280.0	239.2	239.8	N/A	N/A	0.03000	CPS
SSW5 Background	205.0	178.2	177.8	N/A	N/A	0.03000	CPS

Hostile Environment Litho Density - A Wellsite Calibration - Tool Quality Control Information High Voltage

Master: 15-Jun-2001 20:40 Before: 14-Jul-2001 18:01							
LS Bkg. High Voltage	1128	1128	1126	N/A	N/A	N/A	V
SS Bkg. High Voltage	1178	1178	1166	N/A	N/A	N/A	V

Hostile Environment Litho Density - A Wellsite Calibration - Detectors Resolution From BKG Measurements

Master: 15-Jun-2001 20:40 Before: 14-Jul-2001 18:01							
LS Background Resolution	1.000	1.042	1.027	N/A	N/A	N/A	
SS Background Resolution	1.000	0.9424	0.9251	N/A	N/A	N/A	

Hostile Environment Litho Density - A Wellsite Calibration - Caliper Calibration

Before: 14-Jul-2001 18:15							
Caliper Small Ring	12.00	N/A	16.05	N/A	N/A	N/A	IN
Caliper Large Ring	18.25	N/A	23.85	N/A	N/A	N/A	IN

Hostile Environment Litho Density - A Master Calibration - Aluminum Measurement

Master: 16-Jun-2001 1:18							
LSW1 Aluminum	648.4	632.4	--	--	--	--	CPS
LSW2 Aluminum	1018	1002	--	--	--	--	CPS
LSW3 Aluminum	1105	1046	--	--	--	--	CPS
LSW4 Aluminum	609.5	572.8	--	--	--	--	CPS
LSW5 Aluminum	533.8	510.1	--	--	--	--	CPS
SSW1 Aluminum	2664	2559	--	--	--	--	CPS
SSW2 Aluminum	7731	7504	--	--	--	--	CPS
SSW3 Aluminum	10380	10070	--	--	--	--	CPS
SSW4 Aluminum	4574	4442	--	--	--	--	CPS
SSW5 Aluminum	745.2	740.9	--	--	--	--	CPS

Hostile Environment Litho Density - A Master Calibration - Tool Quality Control Information: High Voltage

Master: 16-Jun-2001 1:18							
LS Alum. High Voltage	1128	1130	--	--	--	--	V
SS Alum. High Voltage	1178	1167	--	--	--	--	V

Hostile Environment Litho Density - A Master Calibration - Detectors Resolution From Aluminum Measurement

Master: 16-Jun-2001 1:18							
LS Aluminum Resolution	1.000	1.050	--	--	--	--	
SS Aluminum Resolution	1.000	1.041	--	--	--	--	

Hostile Environment Litho Density - A Master Calibration - Aluminum Measurement (Window Ratios)

Master: 16-Jun-2001 1:18							
LSW1/(LSW4 + LSW5) Calc.	0.5400	0.5840	--	--	--	--	
LSW3/(LSW4 + LSW5) Calc.	0.9600	0.9663	--	--	--	--	
SSW1/(SSW4 + SSW5) Calc.	0.4600	0.4938	--	--	--	--	
SSW3/(SSW4 + SSW5) Calc.	1.900	1.943	--	--	--	--	

Hostile Environment Litho Density - A Master Calibration - Litholog Measurement

Master: 16-Jun-2001 1:12							
LSW1 Iron	410.0	466.0	--	--	--	--	CPS
LSW2 Iron	870.0	891.0	--	--	--	--	CPS
LSW3 Iron	1030	1030	--	--	--	--	CPS
LSW4 Iron	590.0	576.8	--	--	--	--	CPS
LSW5 Iron	530.0	516.1	--	--	--	--	CPS
SSW1 Iron	1850	1964	--	--	--	--	CPS
SSW2 Iron	6500	6624	--	--	--	--	CPS
SSW3 Iron	10000	9744	--	--	--	--	CPS
SSW4 Iron	4500	4350	--	--	--	--	CPS
SSW5 Iron	750.0	720.4	--	--	--	--	CPS

Hostile Environment Litho Density - A Master Calibration - Tool Quality Control Information: High Voltage

Master: 16-Jun-2001 1:12							
LS Lith High Voltage	1128	1129	--	--	--	--	V
SS Lith High Voltage	1178	1170	--	--	--	--	V

Hostile Environment Litho Density - A Master Calibration - Detectors Resolution From Litholog Measurement

Master: 16-Jun-2001 1:12							
LS Lith Resolution	1.000	1.045	--	--	--	--	
SS Lith Resolution	1.000	1.044	--	--	--	--	

Accelerator-Porosity Tool Wellsite Calibration - Detector Background

Master: 26-Jun-2001 23:26 Before: 23-Jul-2001 13:09							
Near Det Bkg Cntrate	30.00	32.20	33.05	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	31.23	33.07	N/A	N/A	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.14	29.47	N/A	N/A	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.17	28.15	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.58	31.31	N/A	N/A	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios

Master: 26-Jun-2001 23:27							
Near/Far Calibration Ratio	0.9250	0.8953	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.061	N/A	N/A	N/A	N/A	

Accelerator-Porosity Tool Master Calibration - Tank Check

Master: 26-Jun-2001 23:27

Master: 20-Jul-2001 23:27								
Array-1 Standoff Porosity	10.25	11.60	--	--	--	--	--	PU
Array-2 Standoff Porosity	10.25	11.20	--	--	--	--	--	PU
Sigma Formation	27.50	27.44	--	--	--	--	--	CU
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check								
Master: 15-Jul-2001 1:02 Before: 15-Jul-2001 0:48								
Na 511 Peak Loc	40.00	40.62	40.70	N/A	N/A	1.000		
Na 511 Peak Res	15.50	15.66	15.17	N/A	N/A	2.000	%	
High Voltage	1150	1112	1113	N/A	N/A	30.00	V	
Na 1785 Peak Loc	142.6	145.1	146.0	N/A	N/A	7.000		
Na 1785 Peak Res	8.500	9.929	9.084	N/A	N/A	2.000	%	
Temperature	15.50	15.77	15.77	N/A	N/A	N/A	DEGC	
Na Count Rate	45.00	19.50	19.48	N/A	N/A	8.000	CPS	
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check								
Master: 15-Jul-2001 1:02 Before: 15-Jul-2001 0:48								
Na 511 Peak Loc	40.00	40.48	40.59	N/A	N/A	1.000		
Na 511 Peak Res	15.50	15.26	14.04	N/A	N/A	2.000	%	
High Voltage	1150	1198	1200	N/A	N/A	30.00	V	
Na 1785 Peak Loc	142.6	143.7	144.7	N/A	N/A	7.000		
Na 1785 Peak Res	8.500	8.190	8.364	N/A	N/A	2.000	%	
Temperature	15.50	15.00	14.95	N/A	N/A	N/A	DEGC	
Na Count Rate	45.00	19.86	19.71	N/A	N/A	8.000	CPS	
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2								
Master: 15-Jul-2001 1:02 Before: 15-Jul-2001 0:48								
Coincidence Count Rate Ratio	1.000	0.9812	0.9885	N/A	N/A	0.05000		
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration								
Master: 15-Jul-2001 0:55								
Na 511 Peak Set Point	40.00	41.00	--	--	--	--		
Th Peak Loc	209.6	211.8	--	--	--	--		
Th Peak Res	7.000	7.477	--	--	--	--	%	
Background Count Rate	142.5	17.17	--	--	--	--	CPS	
Gain Ratio	1.000	0.9920	--	--	--	--		
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration								
Master: 15-Jul-2001 0:55								
Na 511 Peak Set Point	40.00	41.00	--	--	--	--		
Th Peak Loc	209.6	209.4	--	--	--	--		
Th Peak Res	7.000	6.592	--	--	--	--	%	
Background Count Rate	142.5	18.69	--	--	--	--	CPS	
Gain Ratio	1.000	0.9843	--	--	--	--		






Accelerator-Porosity Tool - Detector Plateau Settings :

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

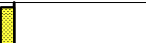
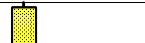
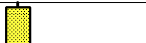


DUAL LATEROLOG - E / Equipment Identification			
Primary Equipment:			
Auxiliary Equipment:			
Dual Laterolog Electrode	DLE - E		
Dual Laterolog Sonde	DLS - F	929	
Dual Laterolog Housing	DLH - CB	2893	
Dual Laterolog Cartridge	DLC - D	930	
Laterolog Control Module	LCM - AA		

DUAL LATEROLOG - E Wellsite Calibration					
DLT ELECTRONICS CALIBRATION Laterolog Measurement					
Phase	MEASURED LLD OHMM	Value	Phase	MEASURED LLS OHMM	Value
Before		31.96	Before		31.20
	29.00 (Minimum)	31.62 (Nominal)	40.00 (Maximum)	29.00 (Minimum)	31.62 (Nominal)
				40.00 (Maximum)	
Before: 15-Jul-2001 0:11					

DUAL LATEROLOG - E Wellsite Calibration									
DLT Electronics Calibration Plus Measurement									
Phase	Deep Current Plus, IIA	Value	Phase	Deep Voltage Plus, MV	Value	Phase	Grounding Voltage Plus, MV	Value	

Phase	Deep Current Plus UA	Value	Phase	Deep Voltage Plus MV	Value	Phase	Groningen Voltage Plus MV	Value	
Before		341.3	Before		10.91	Before		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		344.1	Before		10.73				
	317.5 (Minimum)	342.5 (Nominal)	367.5 (Maximum)	9.830 (Minimum)	10.83 (Nominal)	11.83 (Maximum)			

Before: 15-Jul-2001 0:11

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		-0.08586	Before		-0.007723	Before		-0.003874	
	-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		-0.08728	Before		-0.007774				
	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)	-0.1000 (Minimum)	0 (Nominal)	0.1000 (Maximum)			

Before: 15-Jul-2001 0:10

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:

HNGS Sonde Housing	HNSH - BA	27
Gamma Source Radioactive	GSR - U	135

Master		41.00	Master		209.4	Master		6.592	
	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	SEE REMARKS		
Master	EXCEEDS LIMIT		18.69	Master		0.9843			
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)			
Master: 15-Jul-2001 0:55									

COMPANY:	Lamont Doherty	BOTTOM LOG INTERVAL	3514 m
WELL:	ODP Leg 197, Site He-3A, Hole 1203A	SCHLUMBERGER DEPTH	3520 m
FIELD:	Detroit Seamount, Emperor Seamount Chain	DEPTH DRILLER	3519 m
OCEAN:	Pacific	KELLY BUSHING	11.3 m
		DRILL FLOOR	11 m
		GROUND LEVEL	-2604 m



Dual Laterolog
Natural Gamma Ray