

Well: West Seahorse 3

Rig: West Triton

Country: **Australia**[illegible]

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	Viscosity		
Fluid Loss	PH		
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			

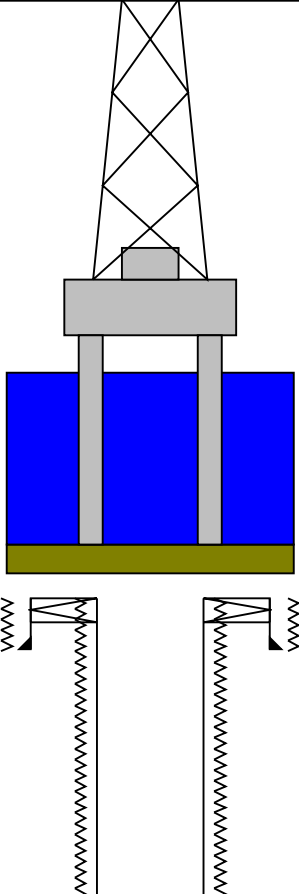
OTHER SERVICES1
OS1: MDT-GR
OS2: MSCT-GR
OS3:
OS4:
OS5:
REMARKS: RUN NUMBER 1
Tool String run as per tool sketch with 7 x 1.5" standoffs and a bowspring.
Maximum recorded temperature was 68 degC sourced from HGNS sensor.
Neutron porosity corrected for hole size and mud weight.
Density corrected for bit size.
Logs were recorded on 2 separate DLIS files because of software problem during logging. 1st pass from 1778.4m to 1513.2m MDRT,
2nd pass from 1562m to 100m MDRT. DLIS files from both passes were spliced @ 1513m MDRT.

Spiking is not evident on the repeat section.

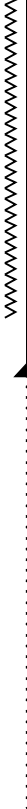
[illegible]

SURFACE EQUIPMENT		DOWNHOLE EQUIPMENT	
GSR-J 6750	WITM (DTS)-A		
NCT-B			
CNB-AB			
NCS-YC 5375			
LEH-QT			23.08
LEH-QT 1181			
BSP	SP SPARC	21.78	22.19
AH-369	CTEM	21.07	21.78
DTC-H	HGNS HTEM	20.43	21.35
ECH-KC 10020	HMCA	20.43	
DTCH0-A	TelStatus		
	ToolStatu		
HILTB-FTB	HGNS Gamm	20.21	20.43
HGNSD-B 856			
HMCA			
HGNH-H 3915			
NLS-KL	HGNS Neut	18.43	
NSR-F 5224	HGNS Neut	18.28	
HACCZ 379			
HCNT	HGNS sens	17.56	
HGR			
HRCC-B 868			
HRMS-B 788			
HRGD-BC 1806	HRCC cart	16.34	
GLS-J 5334			
MCFL Device	MCFL	14.69	
HILT Nucl. LS 28356	HILT cali	14.54	
HILT Nucl. SS 14120	HRDD-LS		
HILT Nucl. BS 26468	HRDD-SS		
BOW-SPR	HRDD-BS	14.42	
NPV-MF 5224			
AH-107			13.83
AH-107			
HRLT-B			13.22
HRUH-B 1741			1.5 IN
HRUC-B 1780			Standoff
HRLS-B 1745			1.5 IN
HRLH-B 1792			Standoff
HRLC-B 1745			
AH-270 1792			
	High Res.	9.64	



Production String	(in)		(m)	Well Schematic	(m)		(in)		Casing String
	OD	ID			MD	MD	OD	ID	
<div>Kelly Bushing Elevation</div> <div>Mean Sea Level</div>			<div>38.0</div> <div>0.0</div>		<div>39.0</div> <div>122.0</div>	<div>36.000</div> <div>30.000</div>	<div>13.375</div>	<div>Borehole Segment</div> <div>Casing Shoe</div>	

All depths are
driller's depths



1117.0
1117.0

13.375

Casing Shoe
Borehole Segment

1810.0

12.250

Borehole Segment Bottom

Schlumberger

Standard Resolution Pass
1:200

MAXIS Field Log

Company: 3D Oil

Well: West Seahorse 3

Input DLIS Files

Splice_SONIC_HRLA_006CUP	FN:1	07-May-2008 21:02	1778.4 M	101.5 M
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Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_008PUP	FN:13	PRODUCER	10-May-2008 15:46	1778.4 M	102.1 M
CUSTOMER	SONIC_HRLA_TLD_MCFL_008PUC	FN:14	CUSTOMER	10-May-2008 15:46	1778.4 M	102.1 M

Integrated Hole/Cement Volume Summary

Hole Volume = 56.92 M3
Cement Volume = 26.64 M3 (assuming 9.63 IN casing O.D.)
Computed from 1761.0 M to 1116.0 M using data channel(s) HCAL

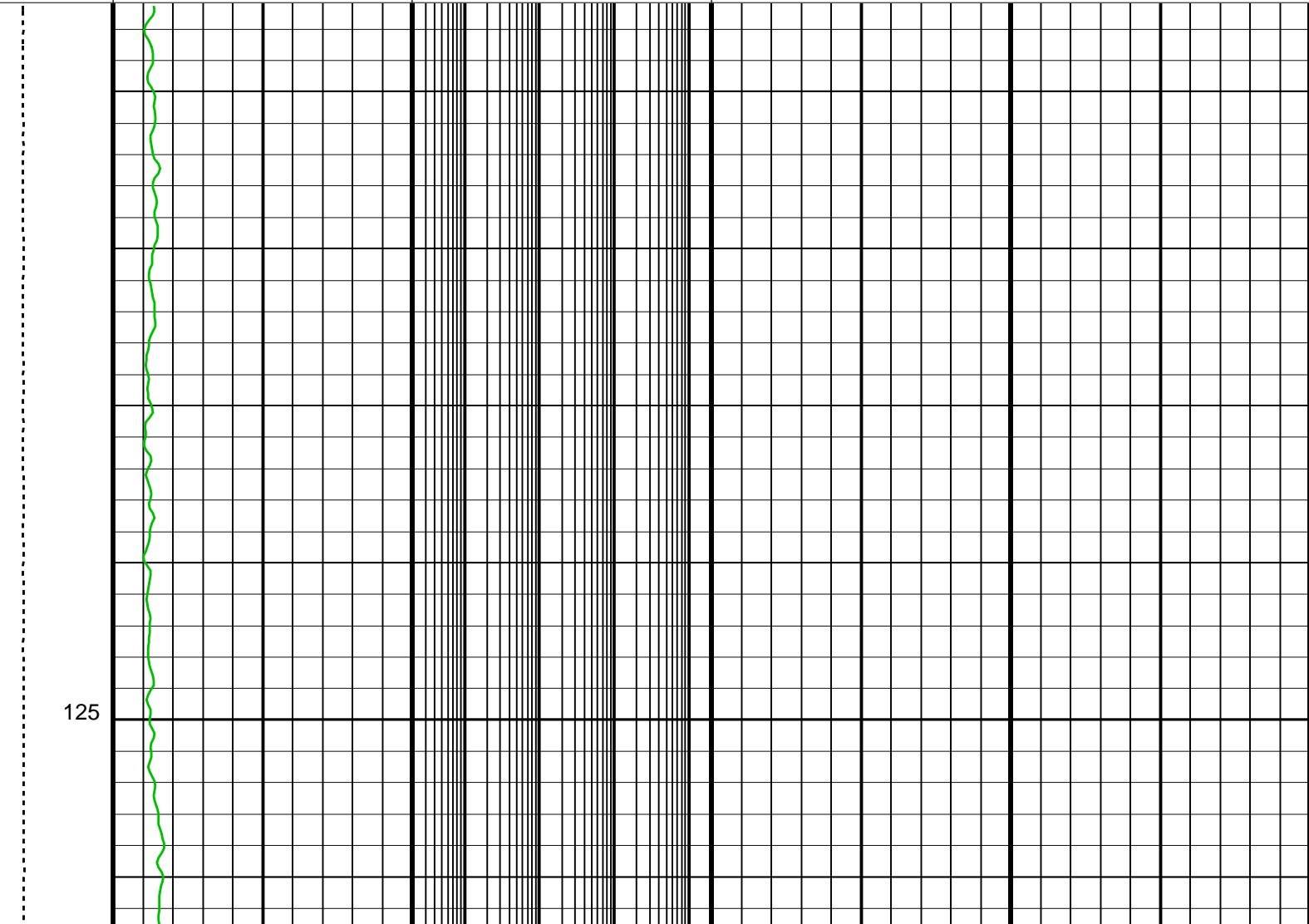
OP System Version: 15C0-309
MCM

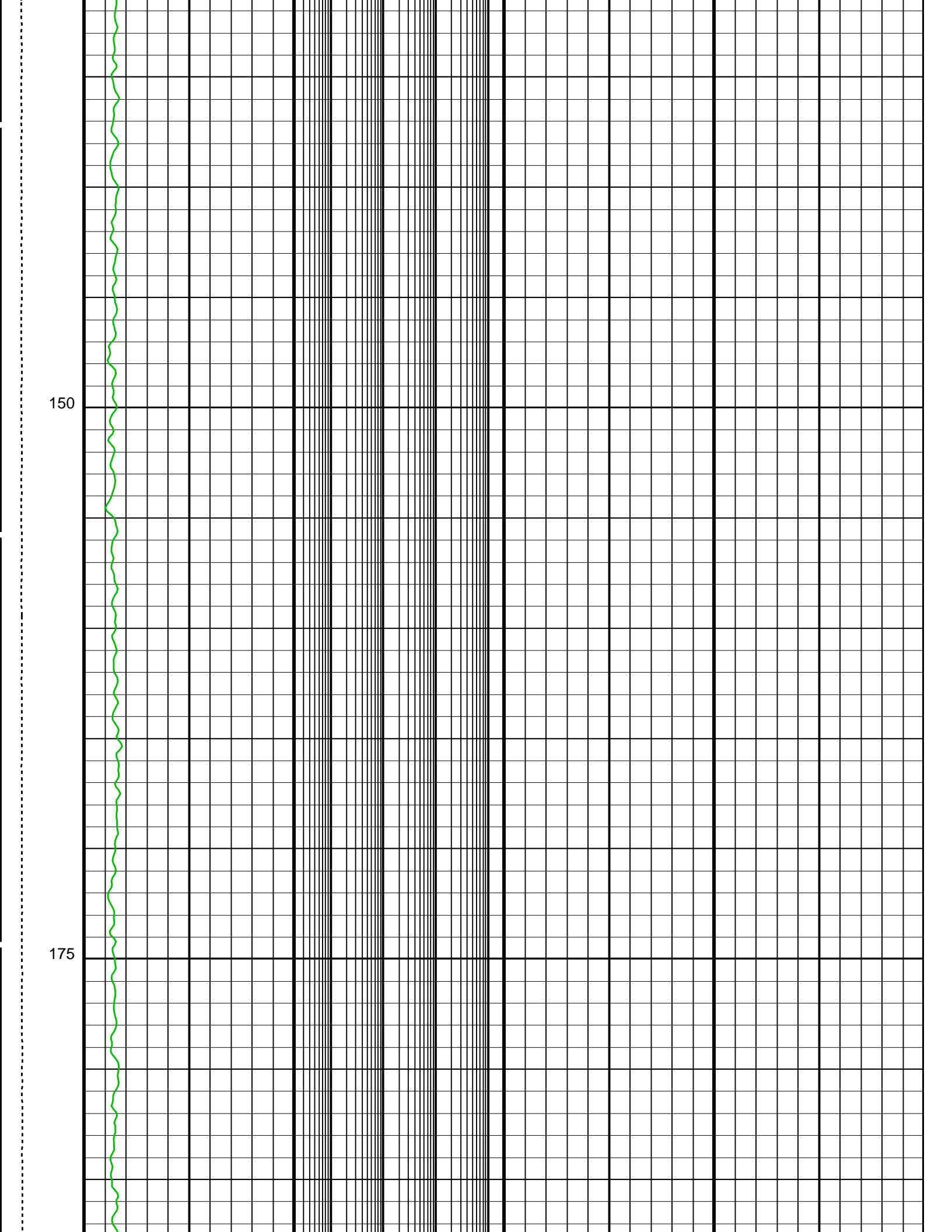
DSLTT-FTB	SKK-3562-MAST_b	HRLT-B	SRPC-3546-Q1_2008_OP15_b
HILTB-FTB	SRPC-3546-Q1_2008_OP15_b	DTC-H	SKK-3493-EDTCB_b
BSP	SRPC-3546-Q1_2008_OP15_b		

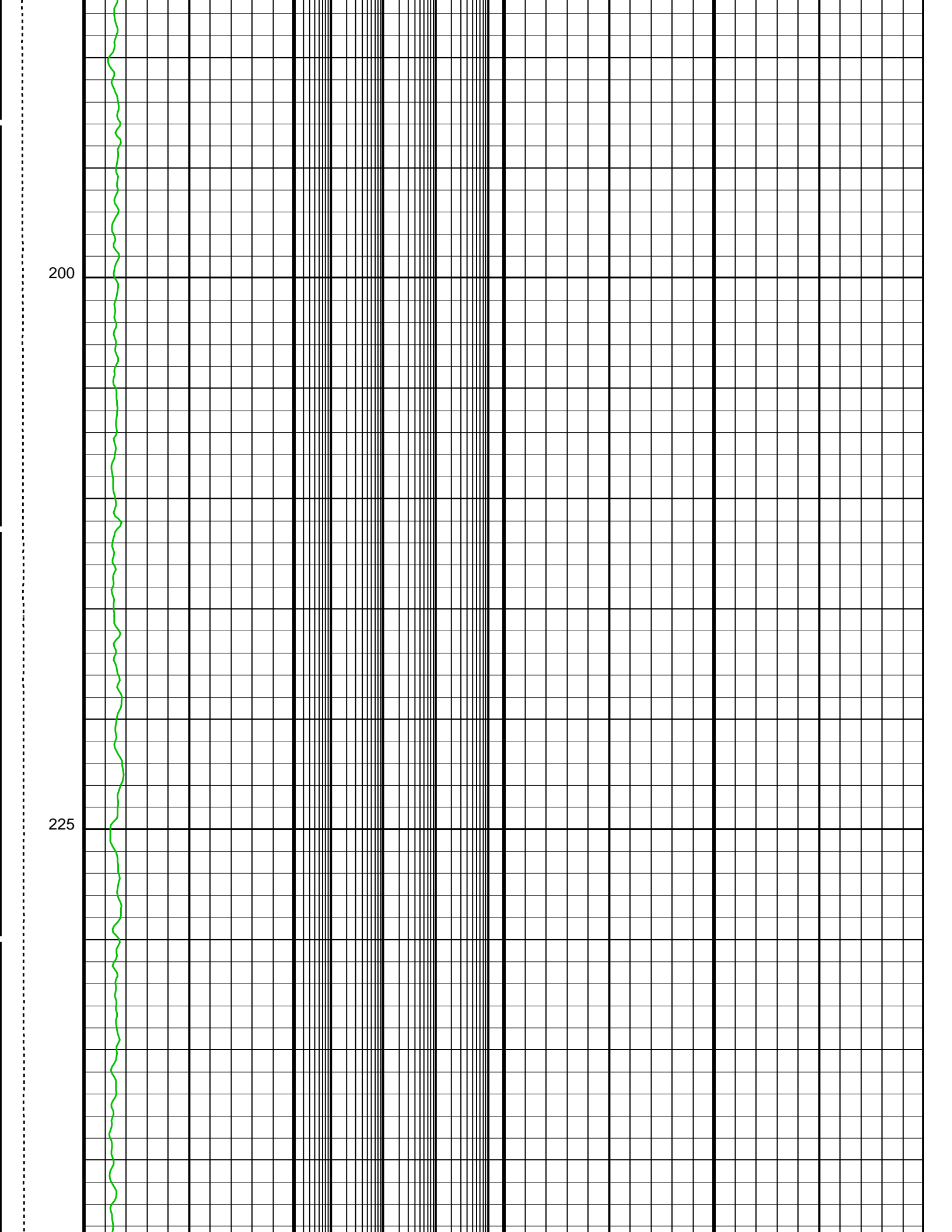
PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
 - Integrated Cement Volume Minor Pip Every 0.1 M3
 - Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

	Area From HCAL to BS				Env.Corr.Thermal Neutron Porosity (TNPH) (V/V)		0.45	-0.15	
	SP (SP) (MV)		Std. Res. Invaded Zone Resistivity (RXOZ)		Std. Res. Formation Density (RHOZ)		1.95	2.95	
	-80	20	0.2	2000					
	Gamma Ray (ECGR) (GAPI)		HRLT Resistivity 5 (RLA5) (OHMM)		Std. Res. Formation Pe (PEFZ)		Density Correction (HDRA) (G/C3)		
	0	200	0.2	2000	0	10	-0.25	0.25	
	HILT Caliper (HCAL) (IN)		HRLT Resistivity 4 (RLA4) (OHMM)		Sand From RHOZ to TNPH				
	6	16	0.2	2000					
Tension (TENS) (LBF)	Bit Size (BS) (IN)		HRLT Resistivity 3 (RLA3) (OHMM)		Delta-T (DT) (US/F)				
6	16	0.2	2000	140	40				
0	5000								

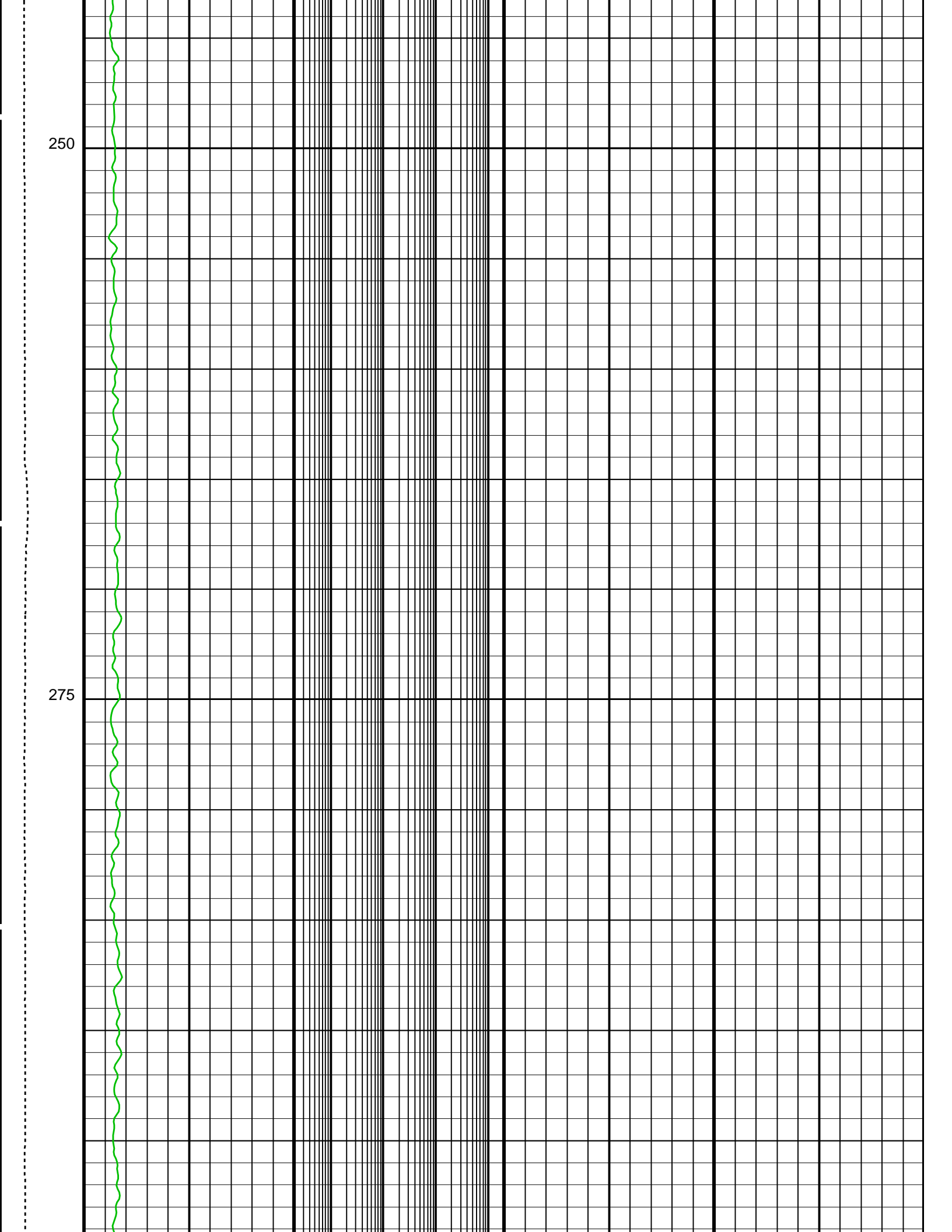






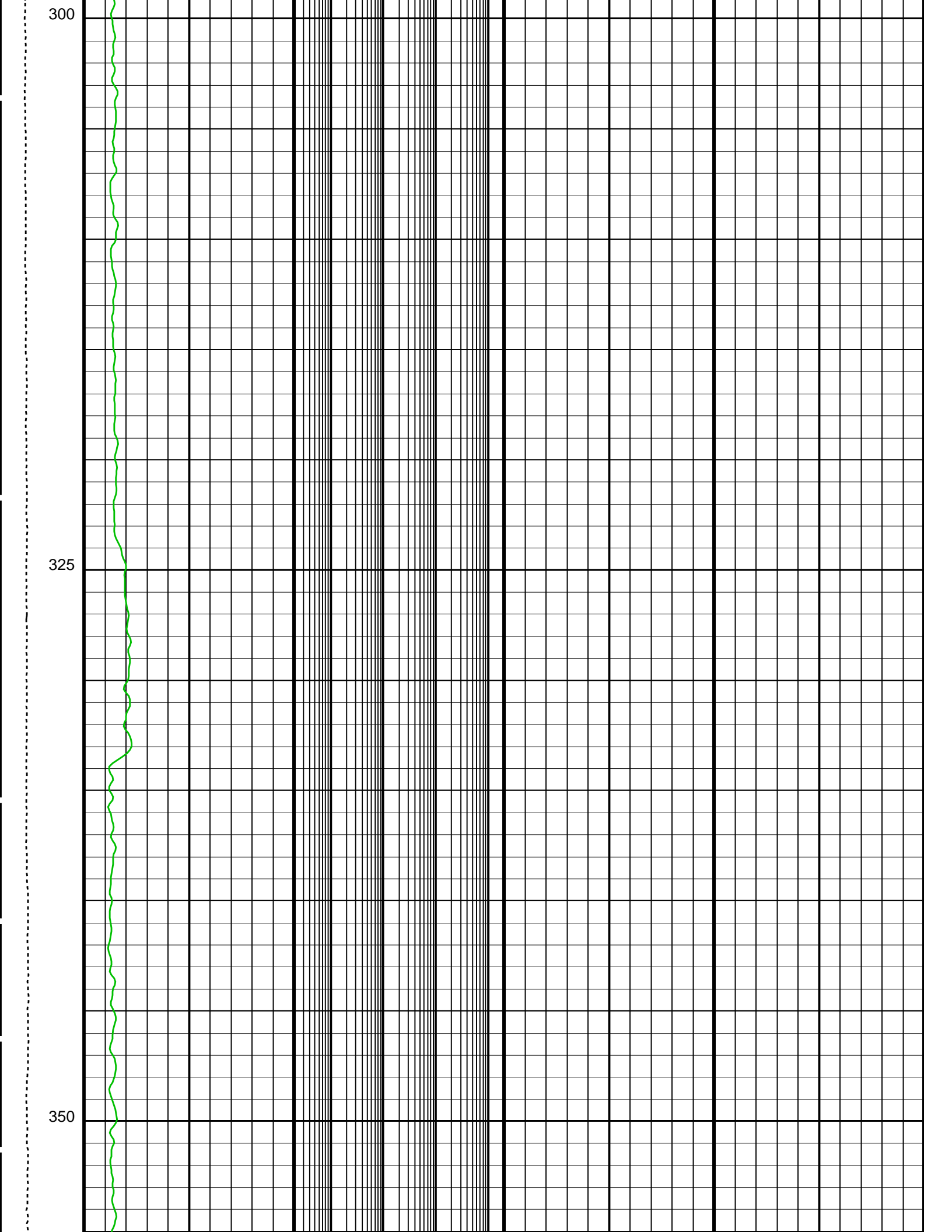
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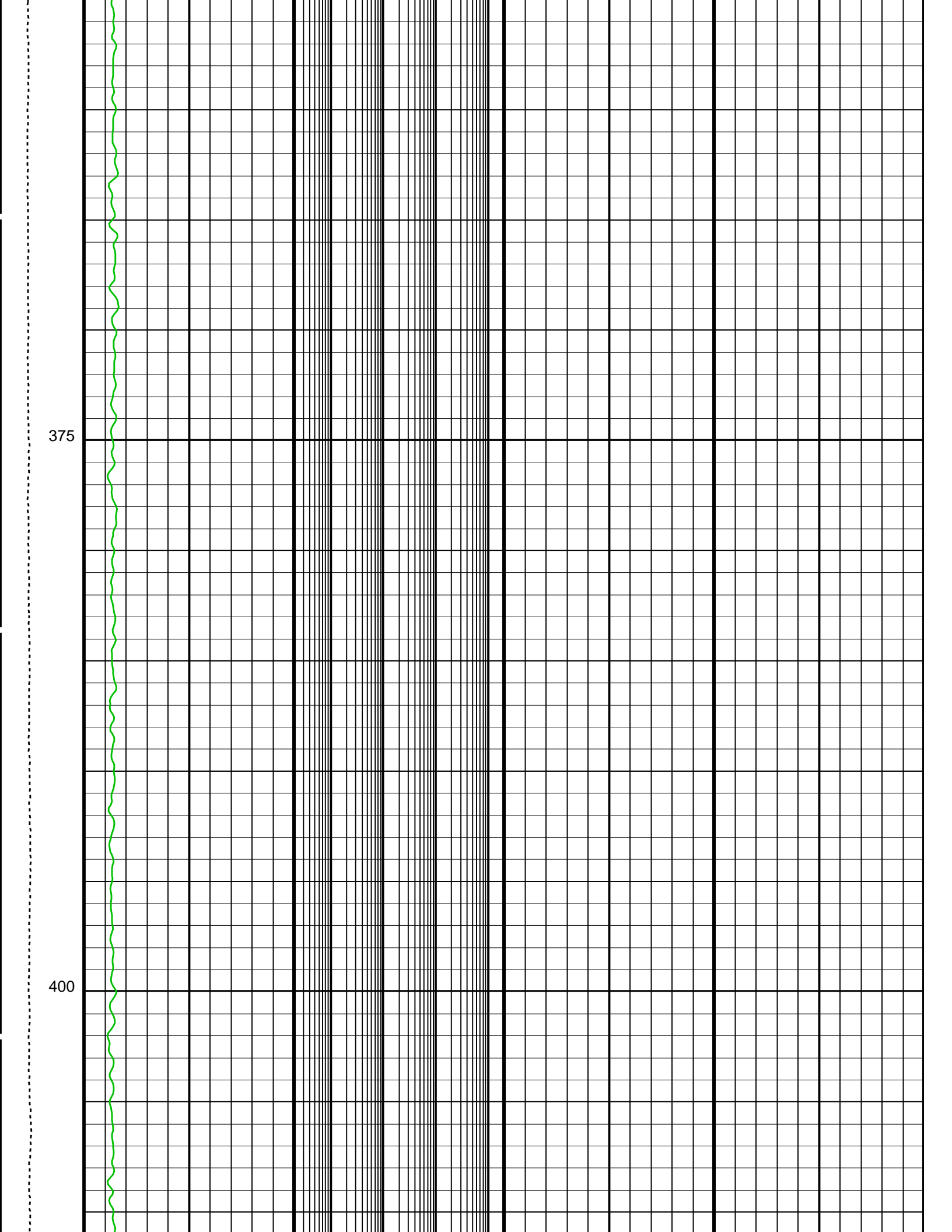
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250

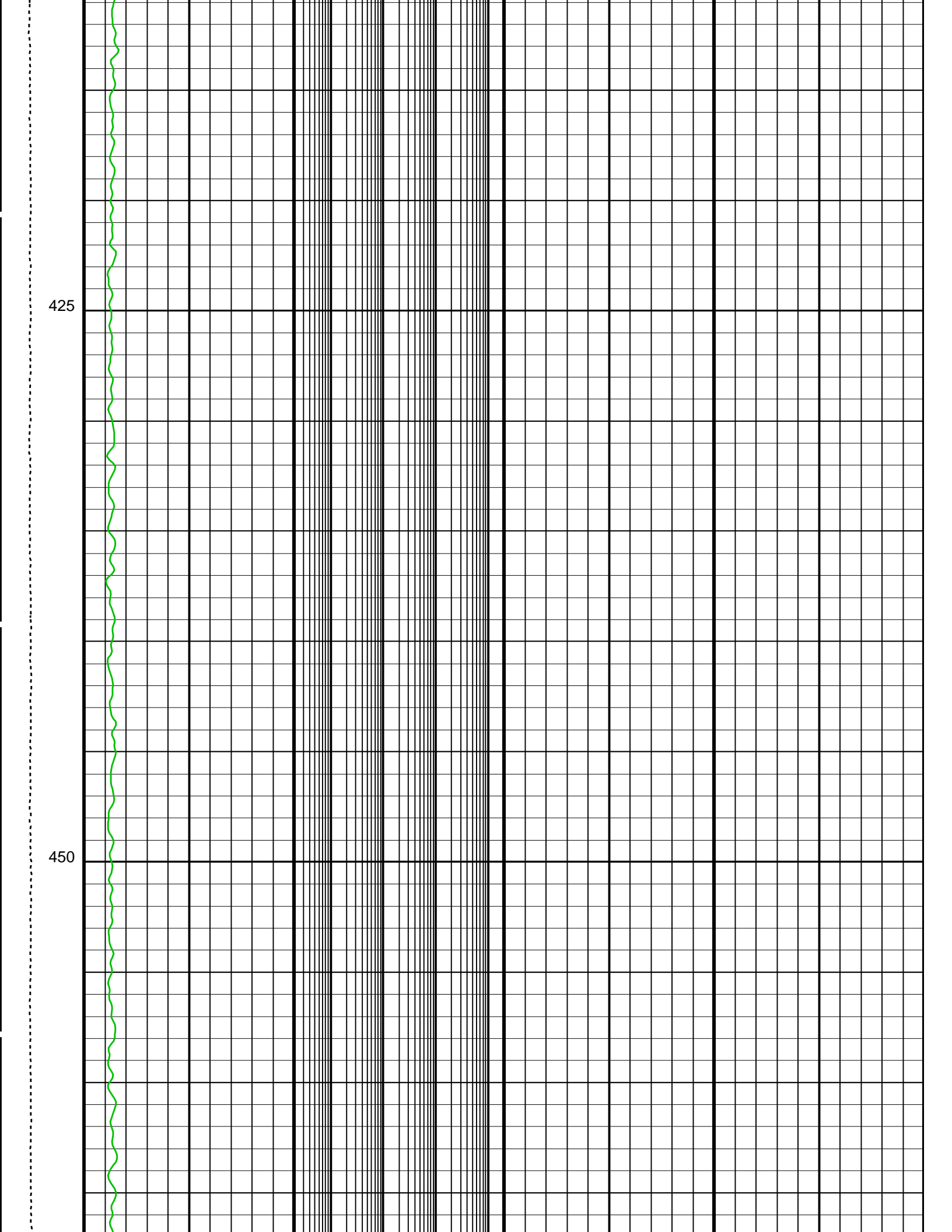
275





375

400



475

500

TENS

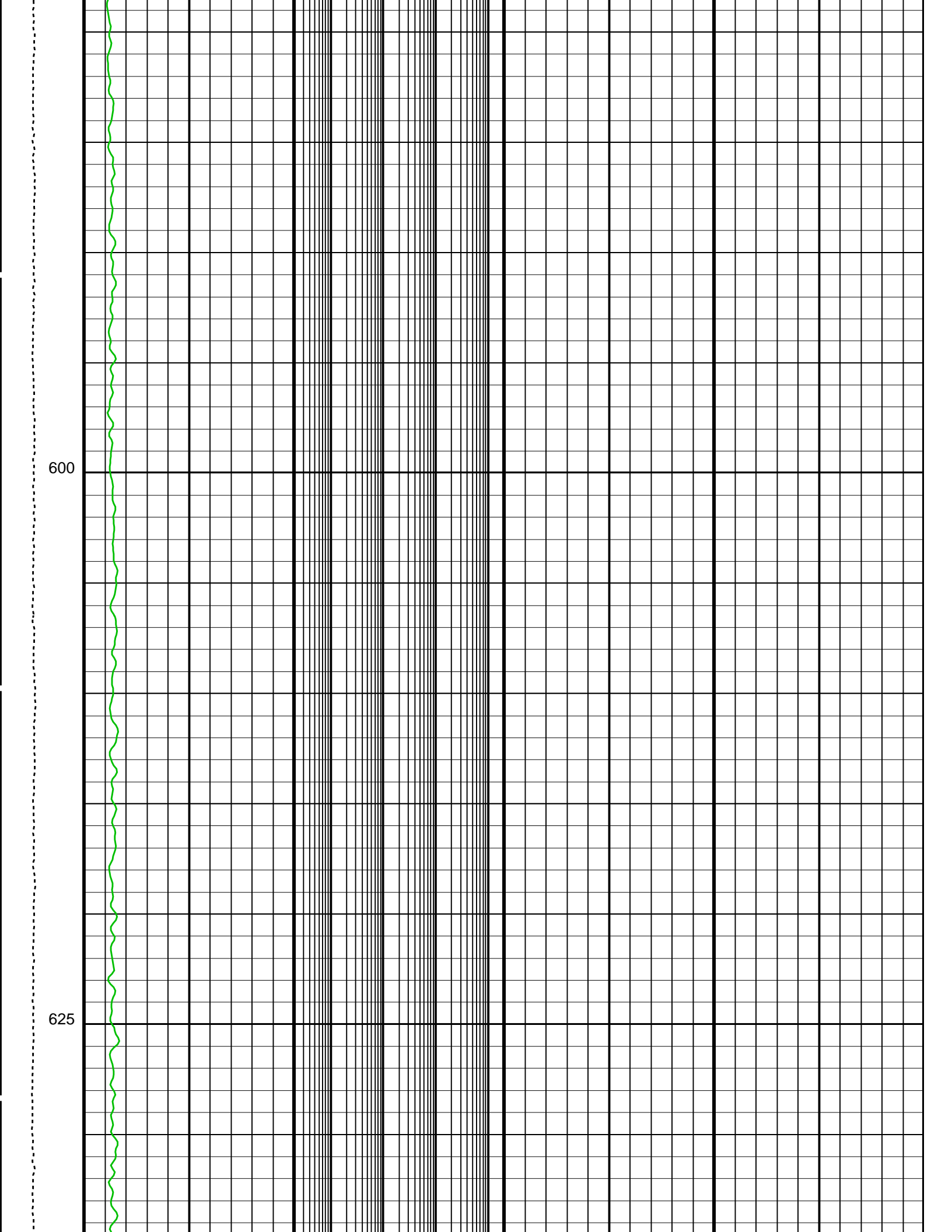
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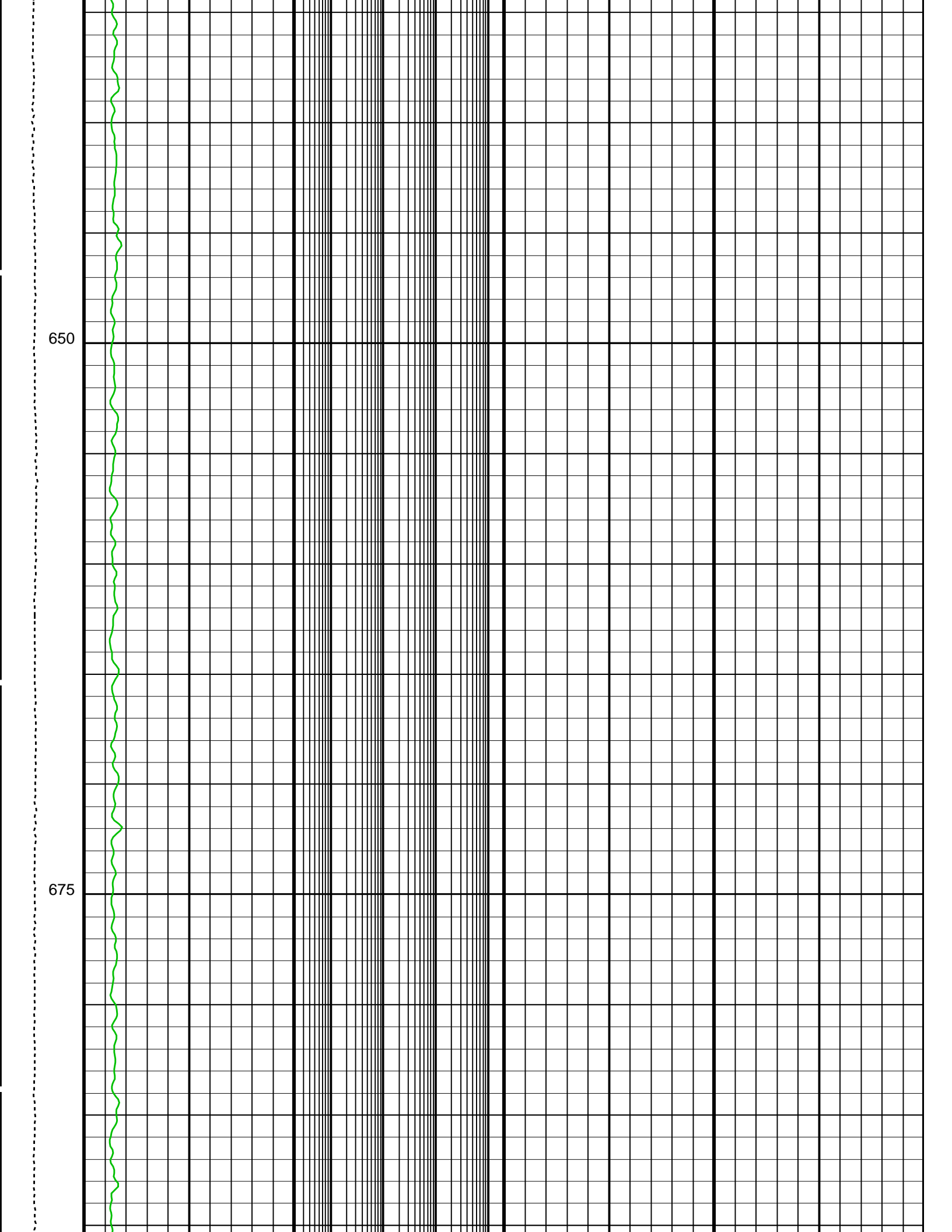
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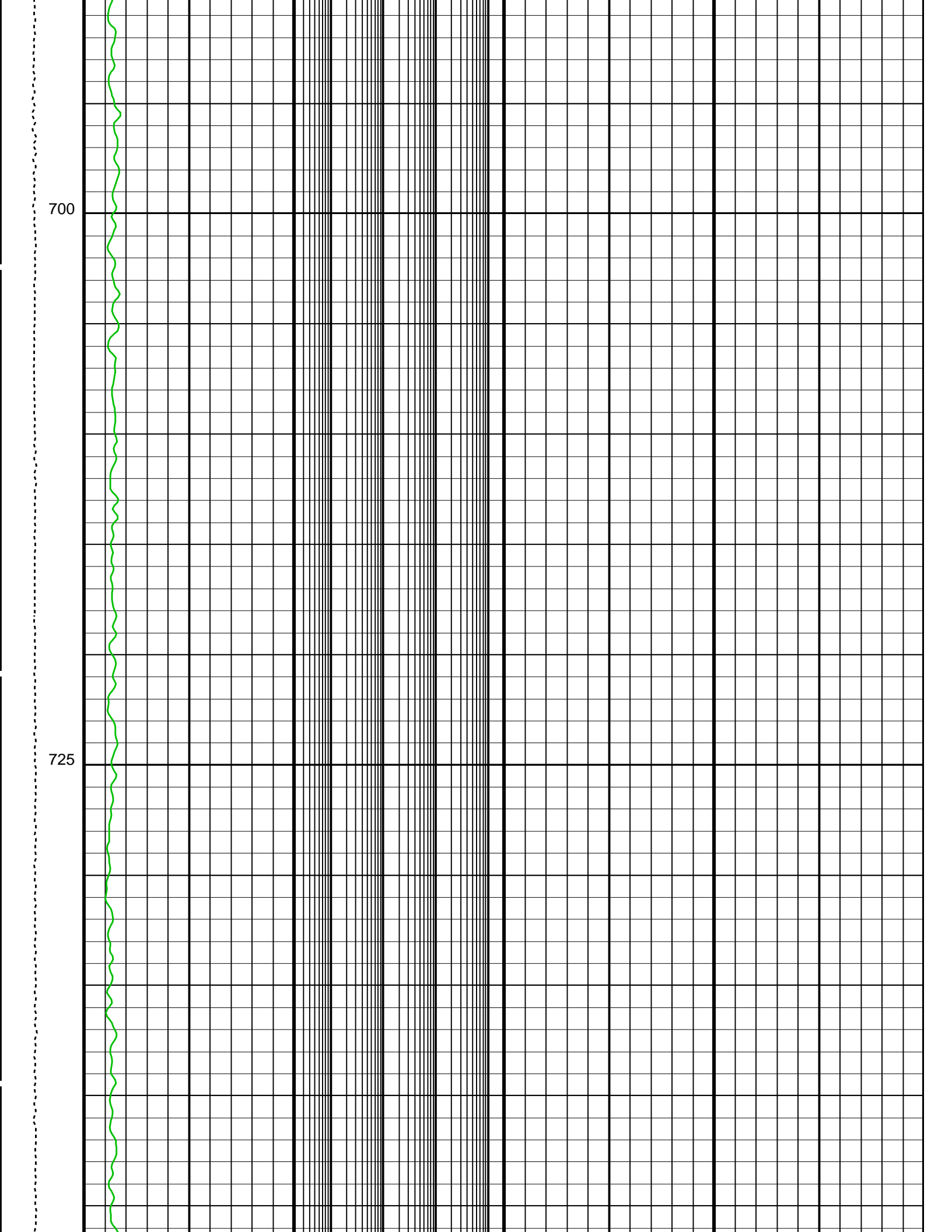
575

ECGR



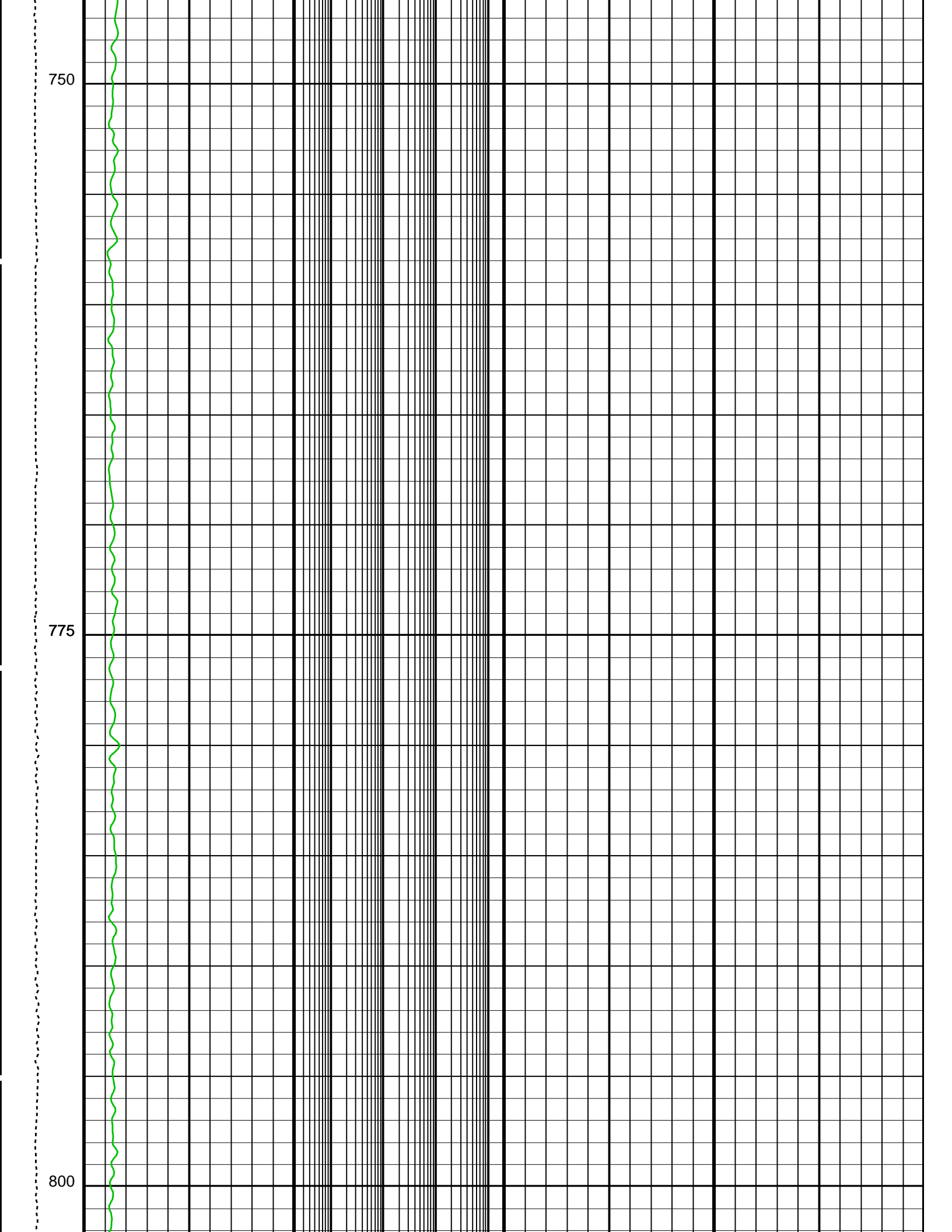


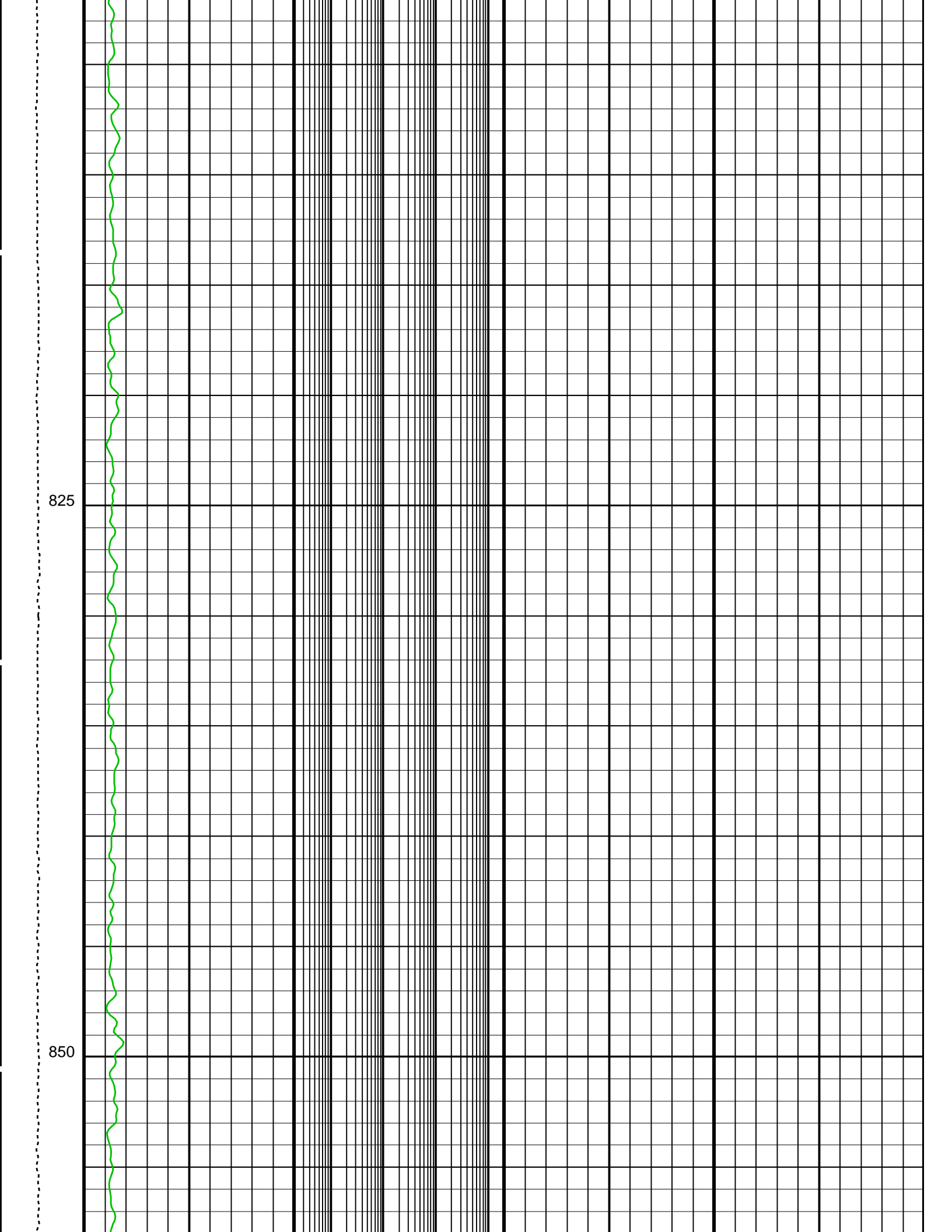


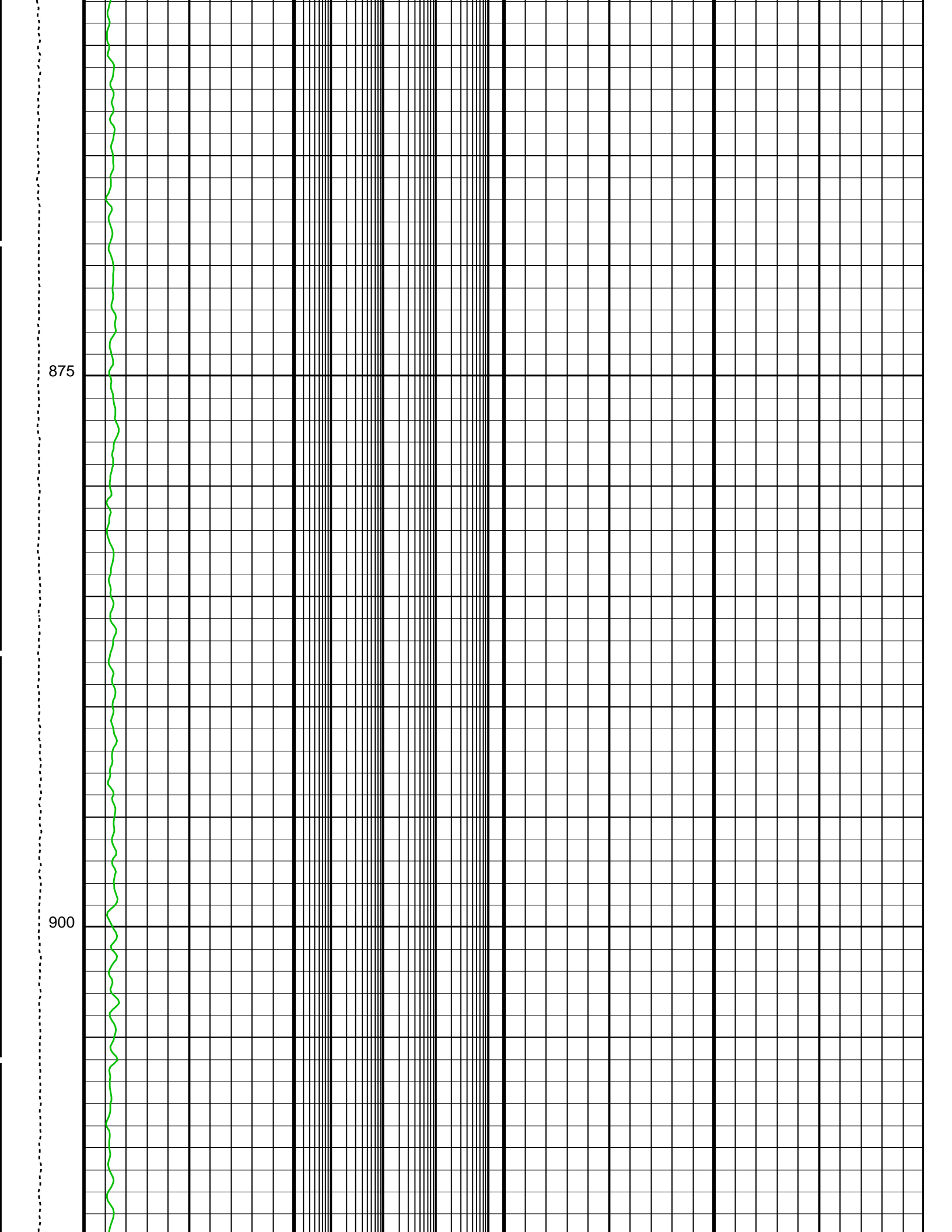


700

725

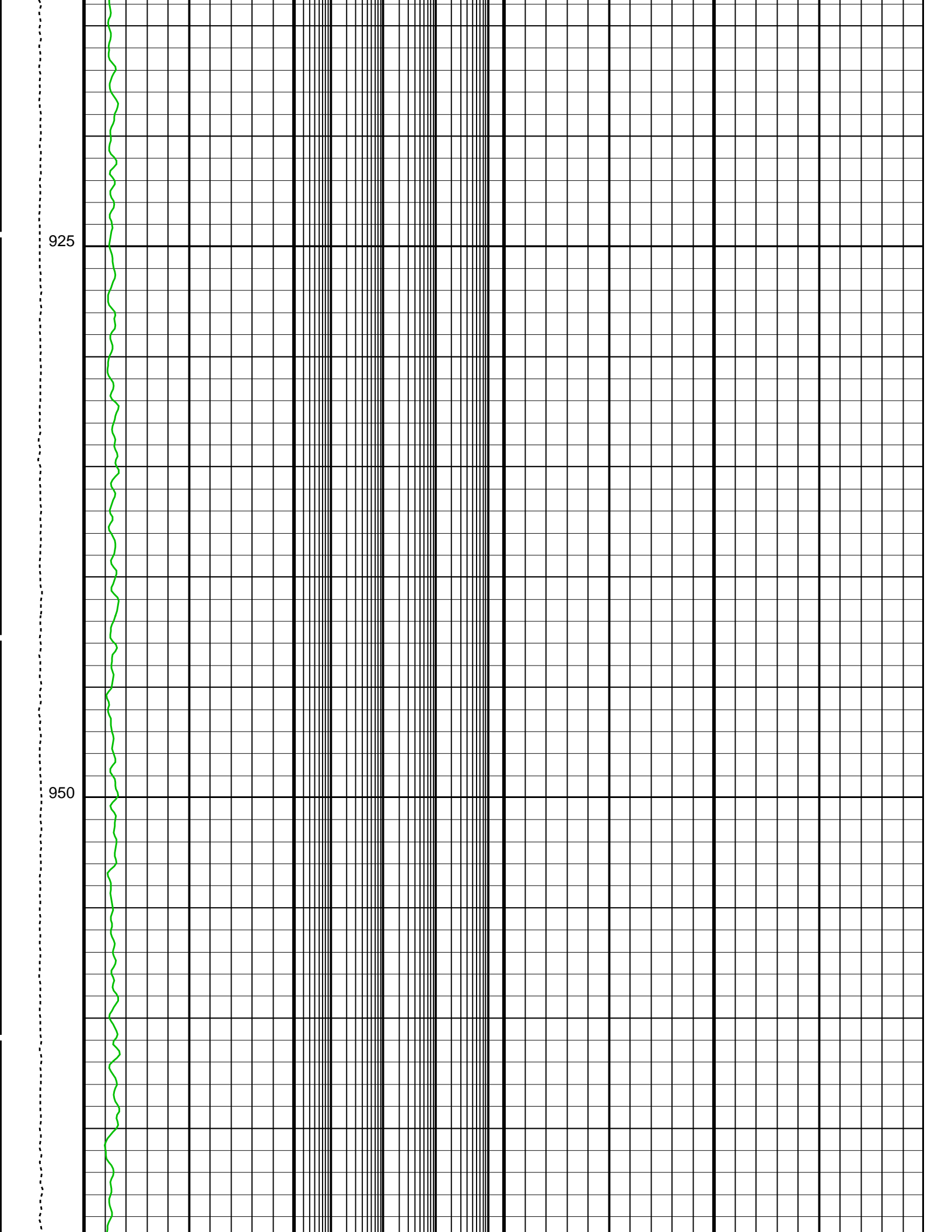






925

950

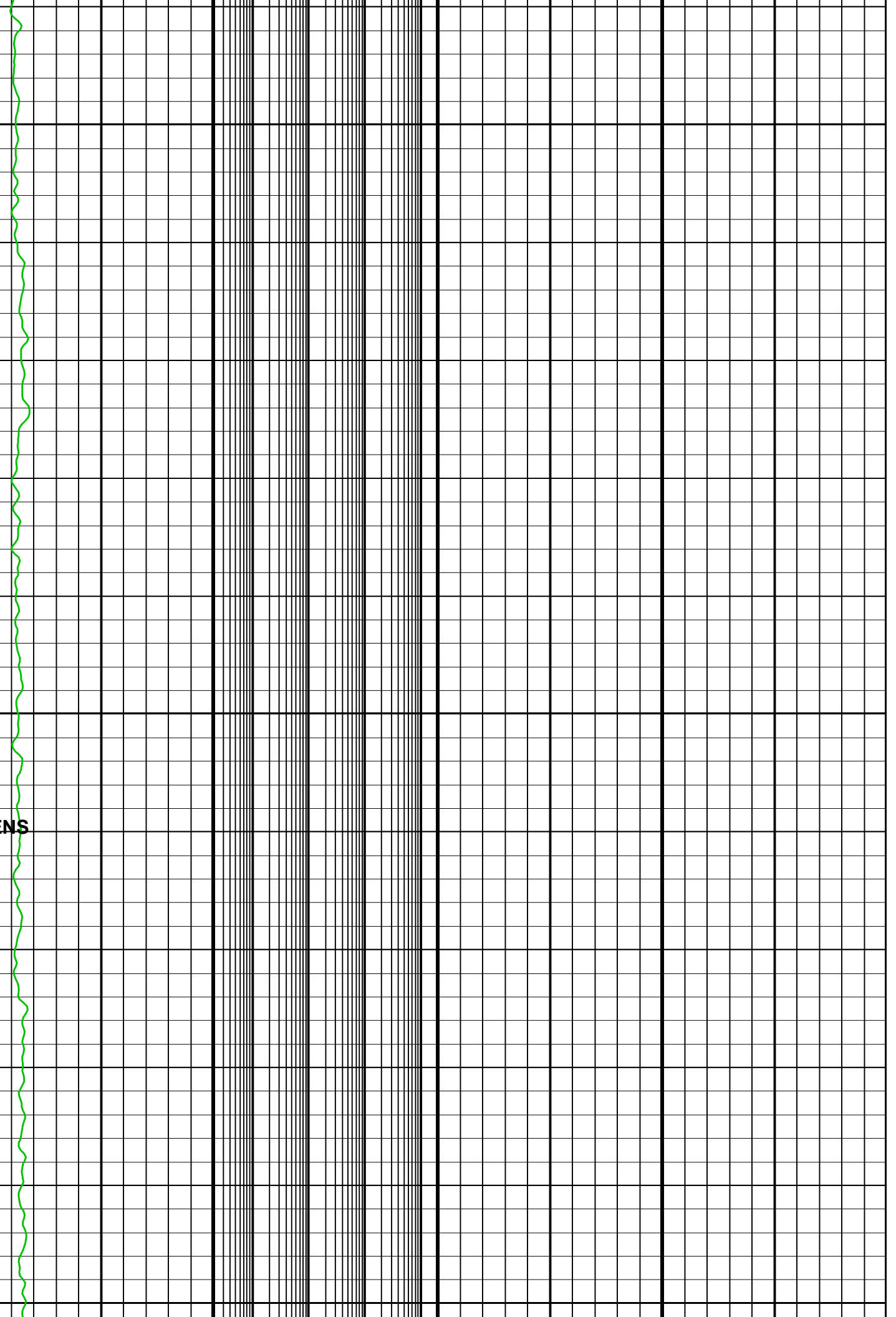


975

1000

1025

1000 TENS

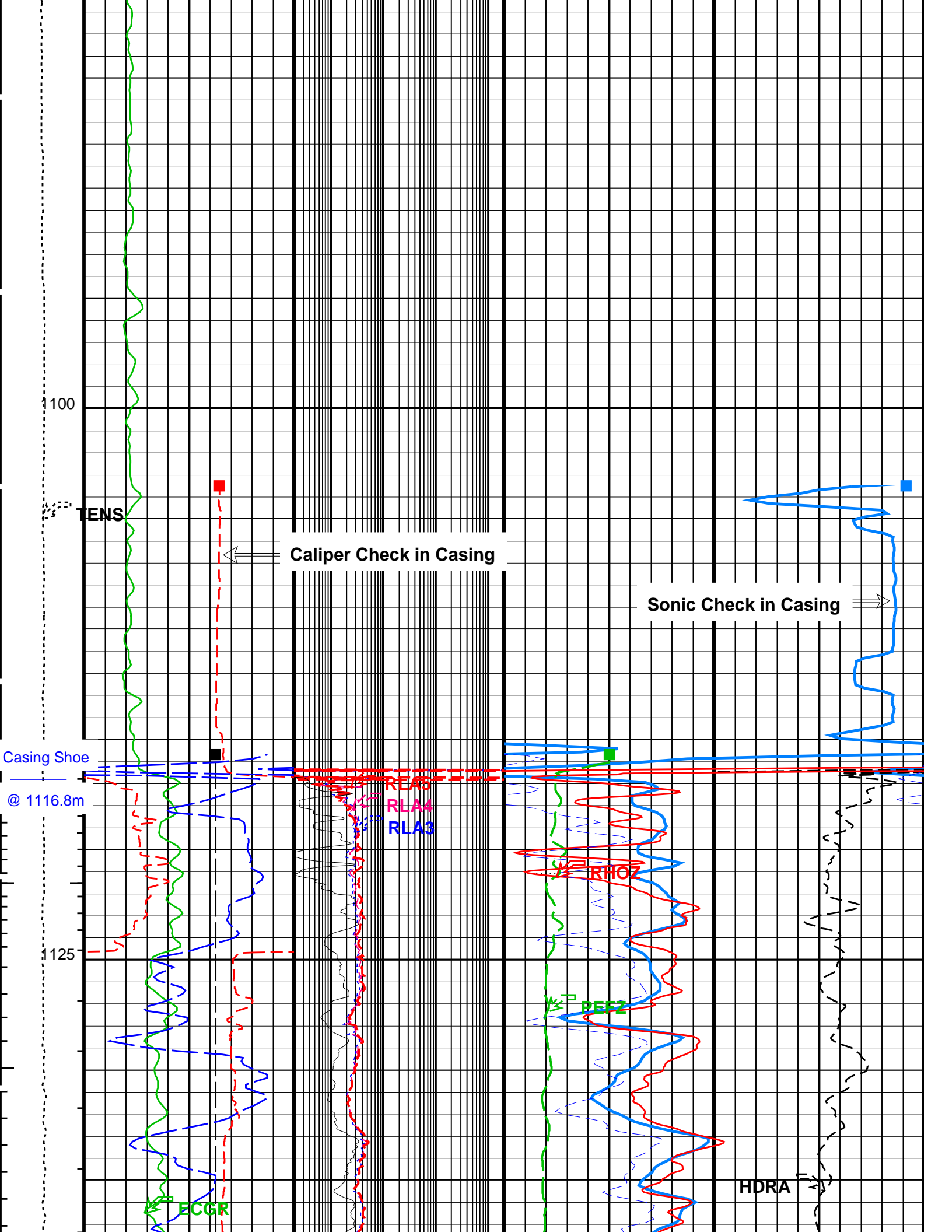


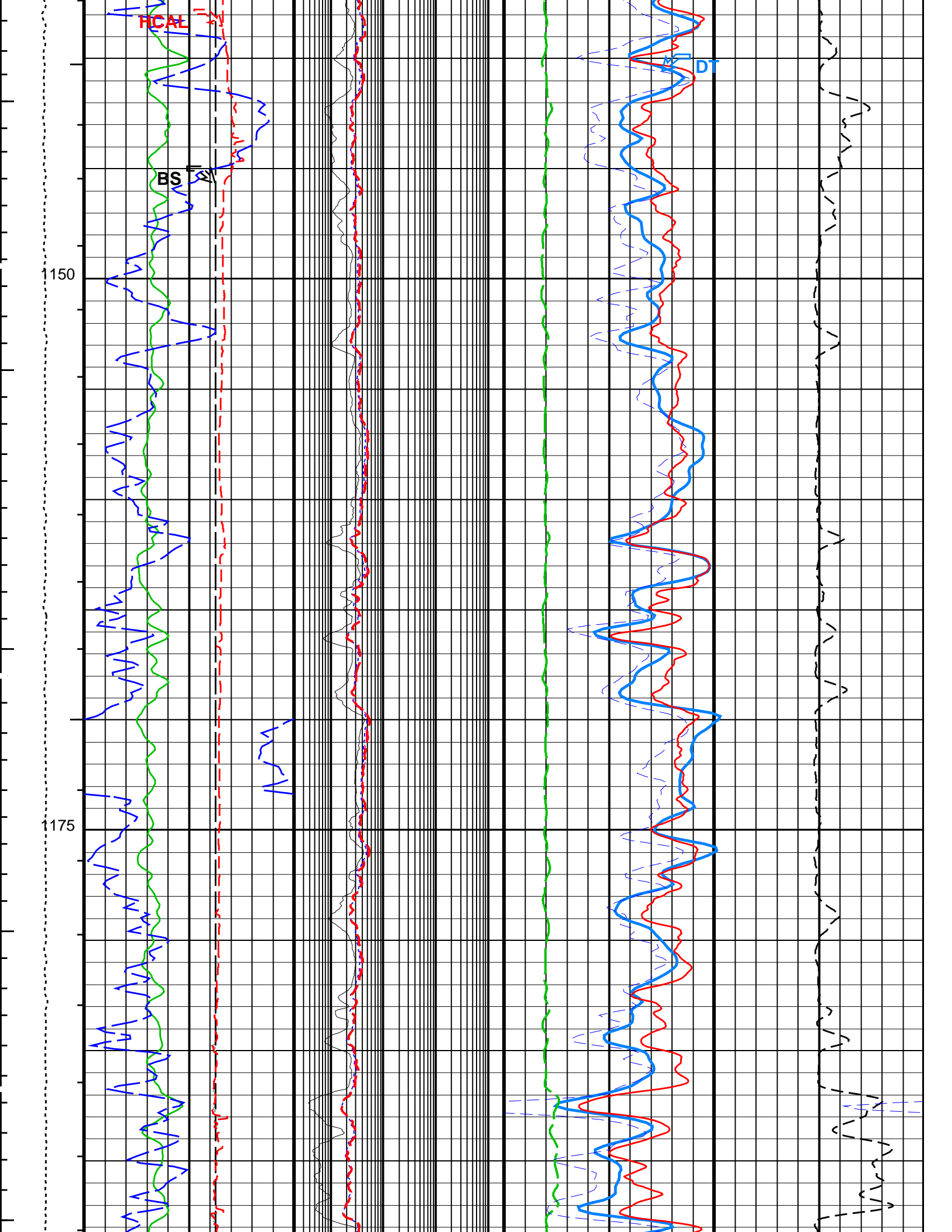
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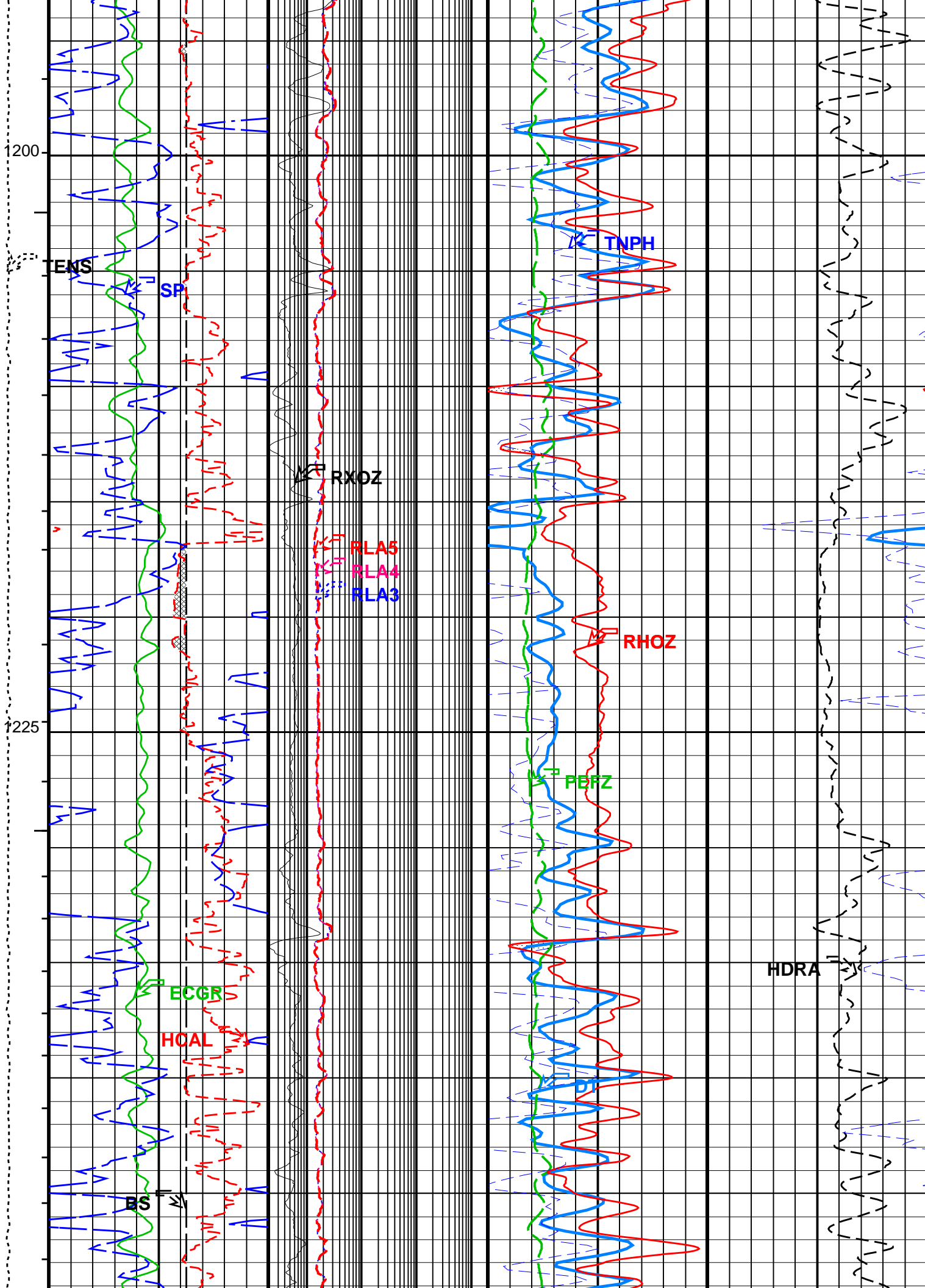
1075

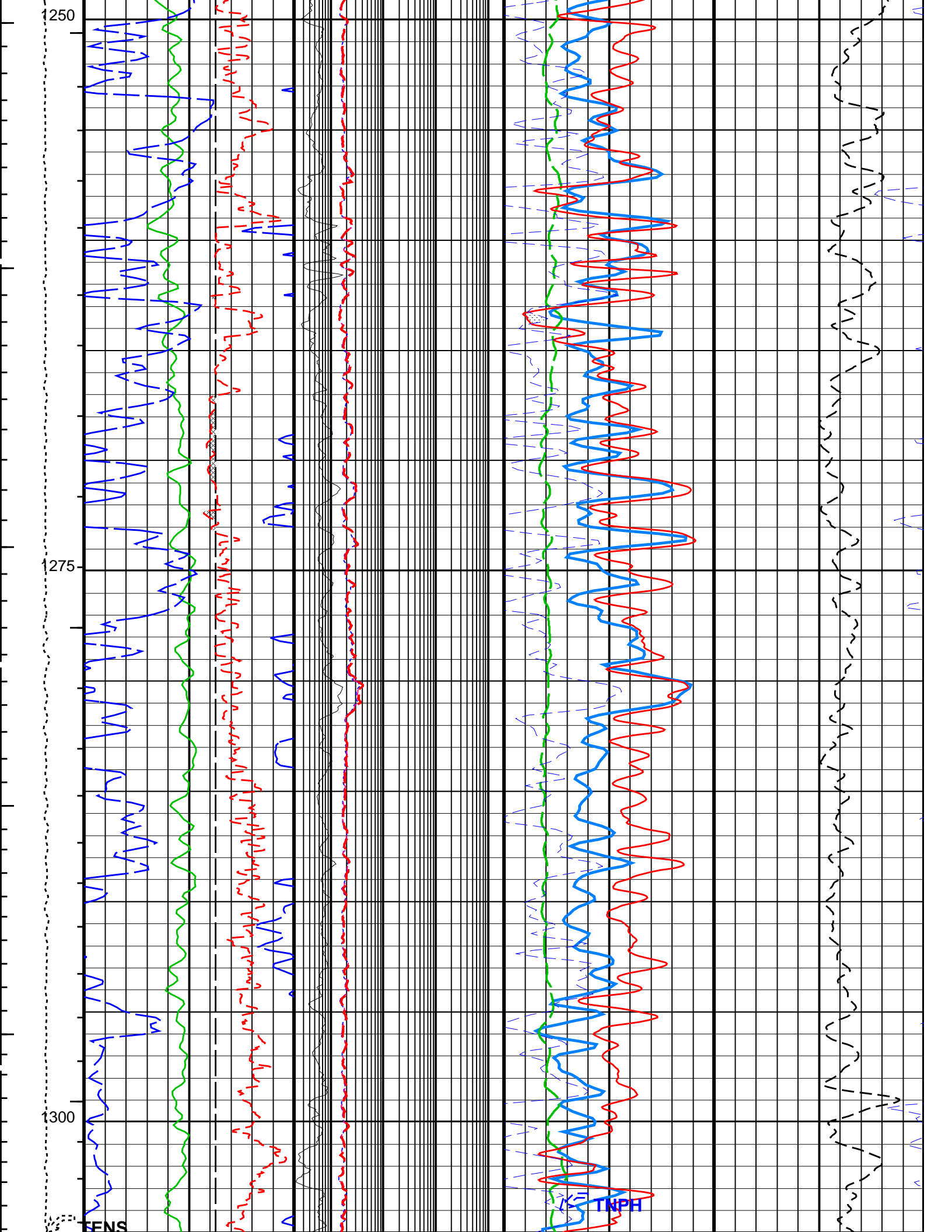
ECGR

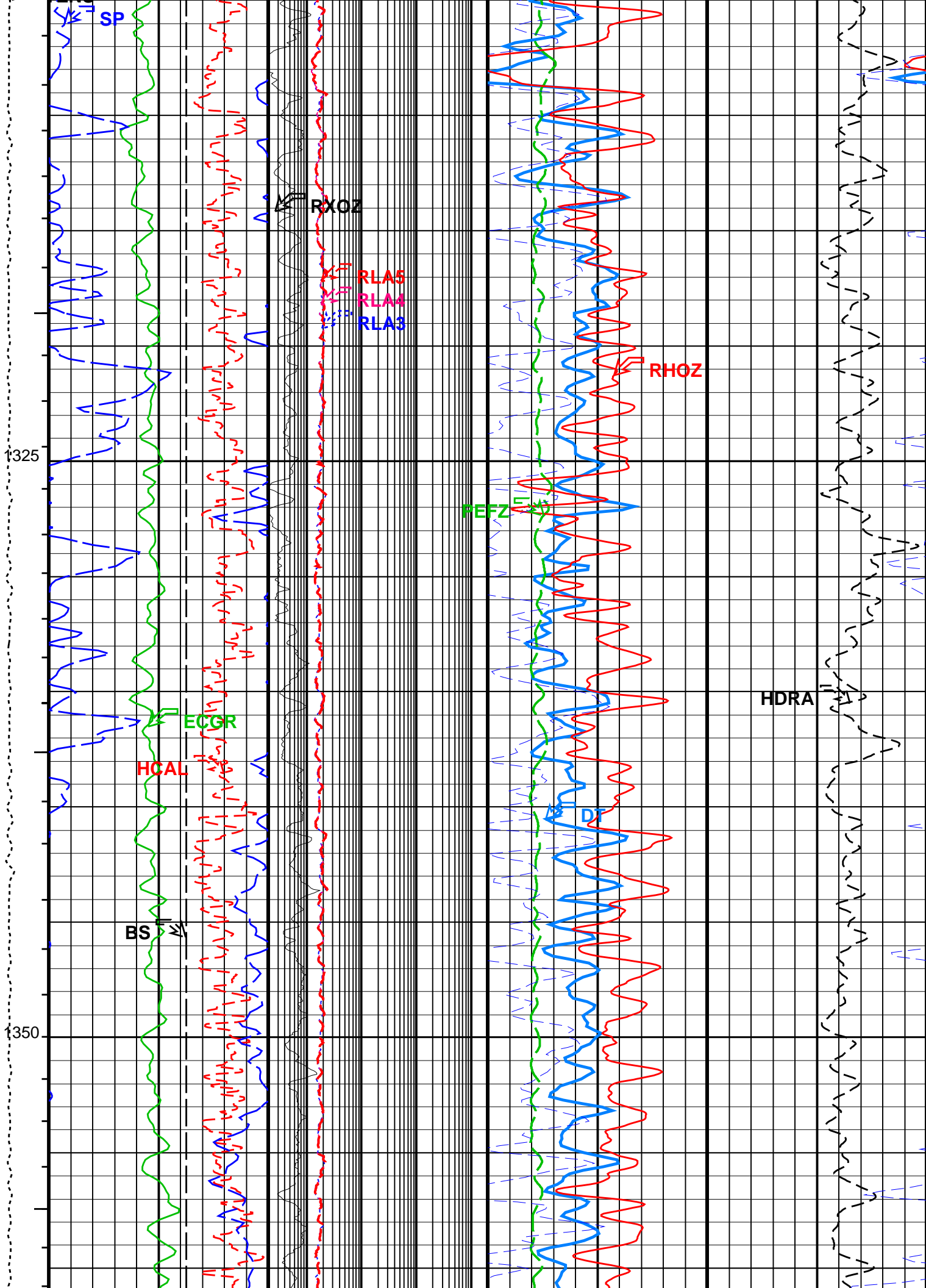


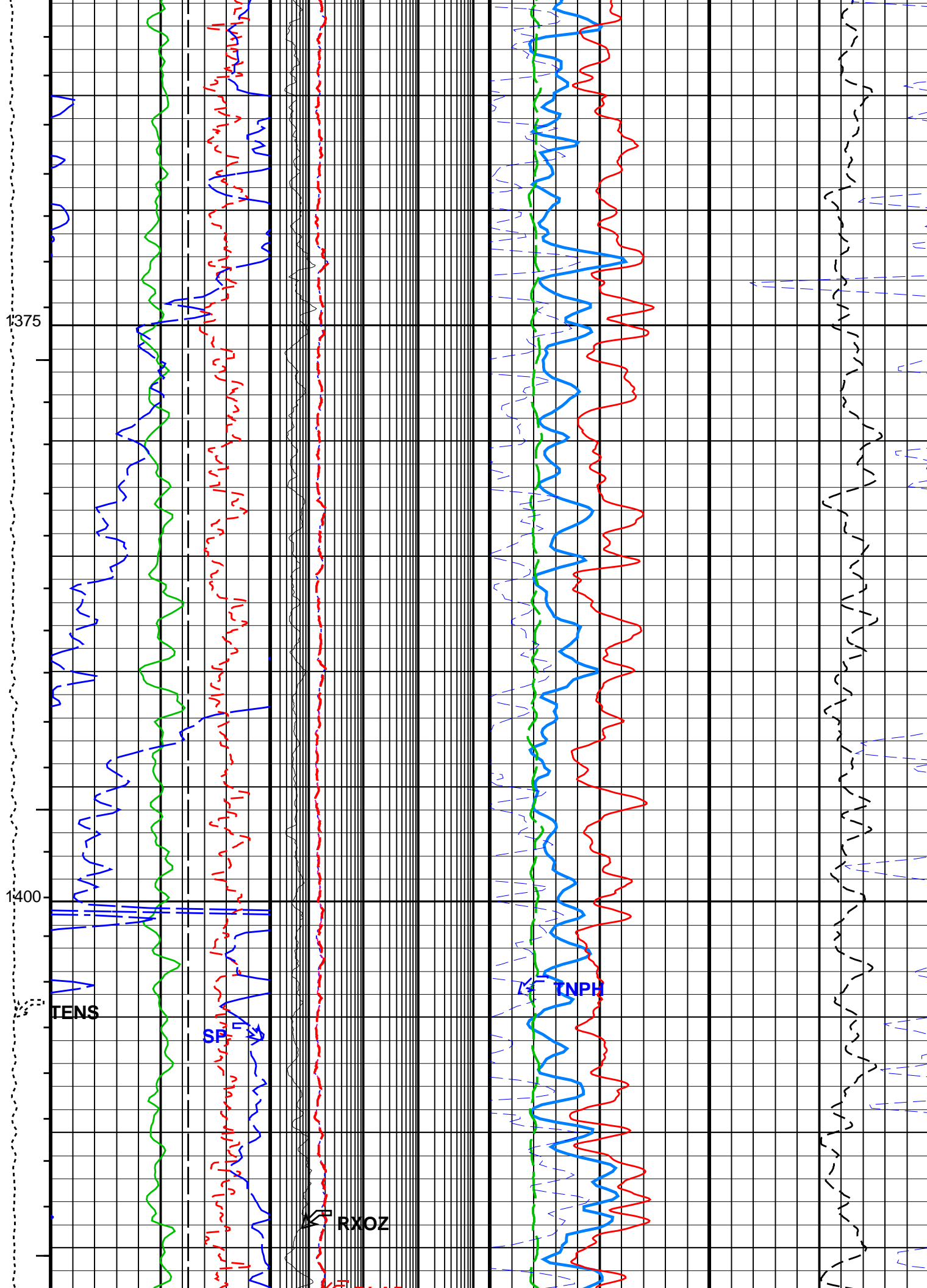


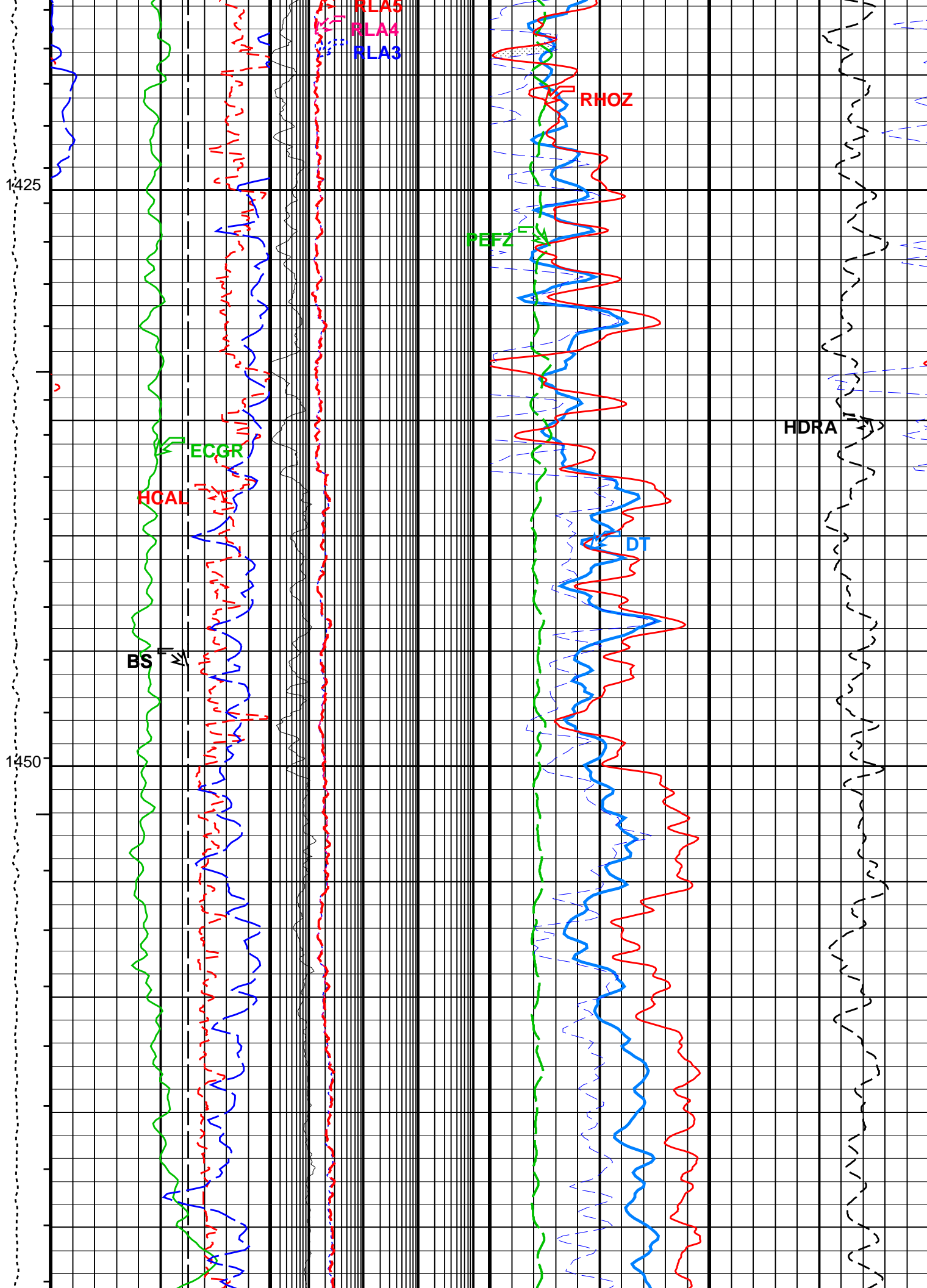


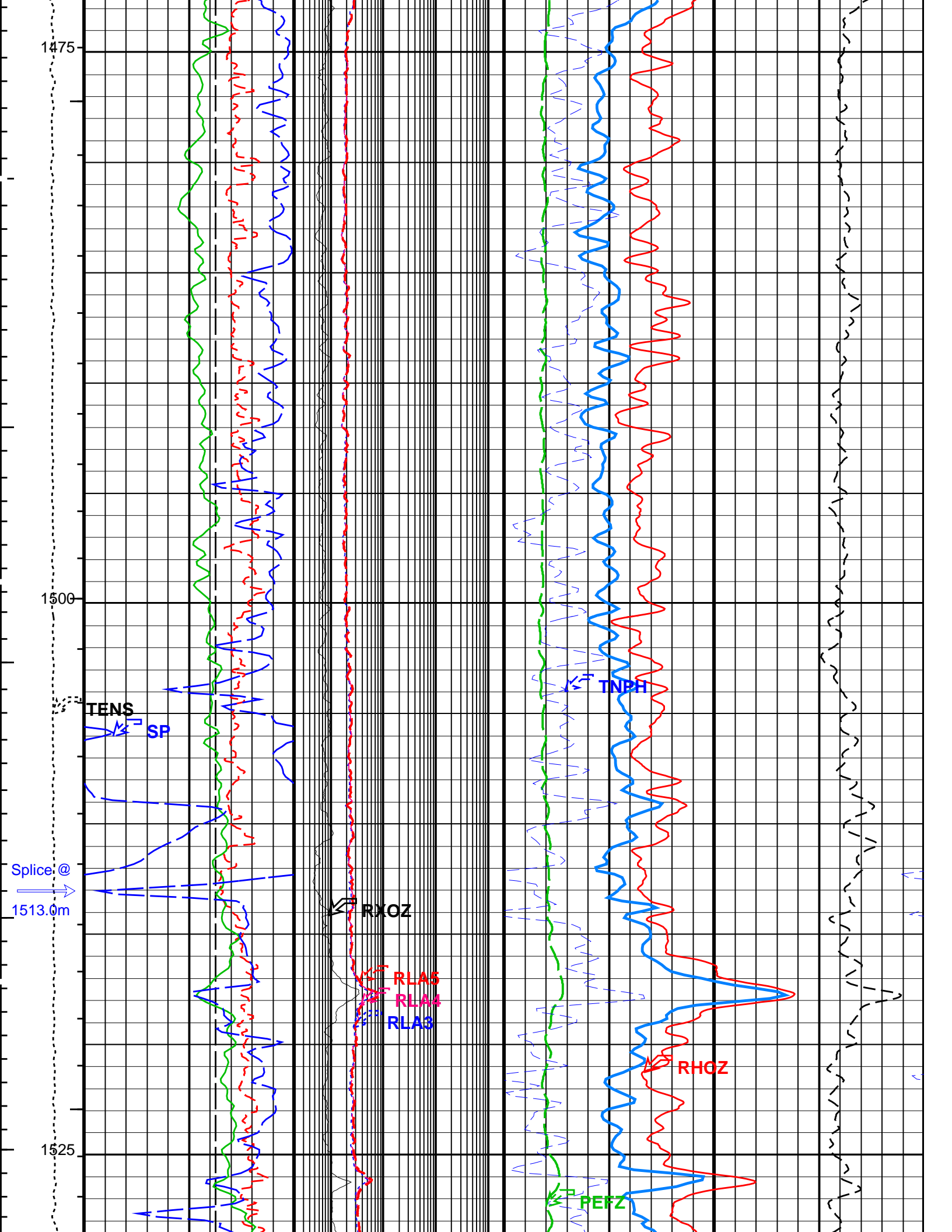


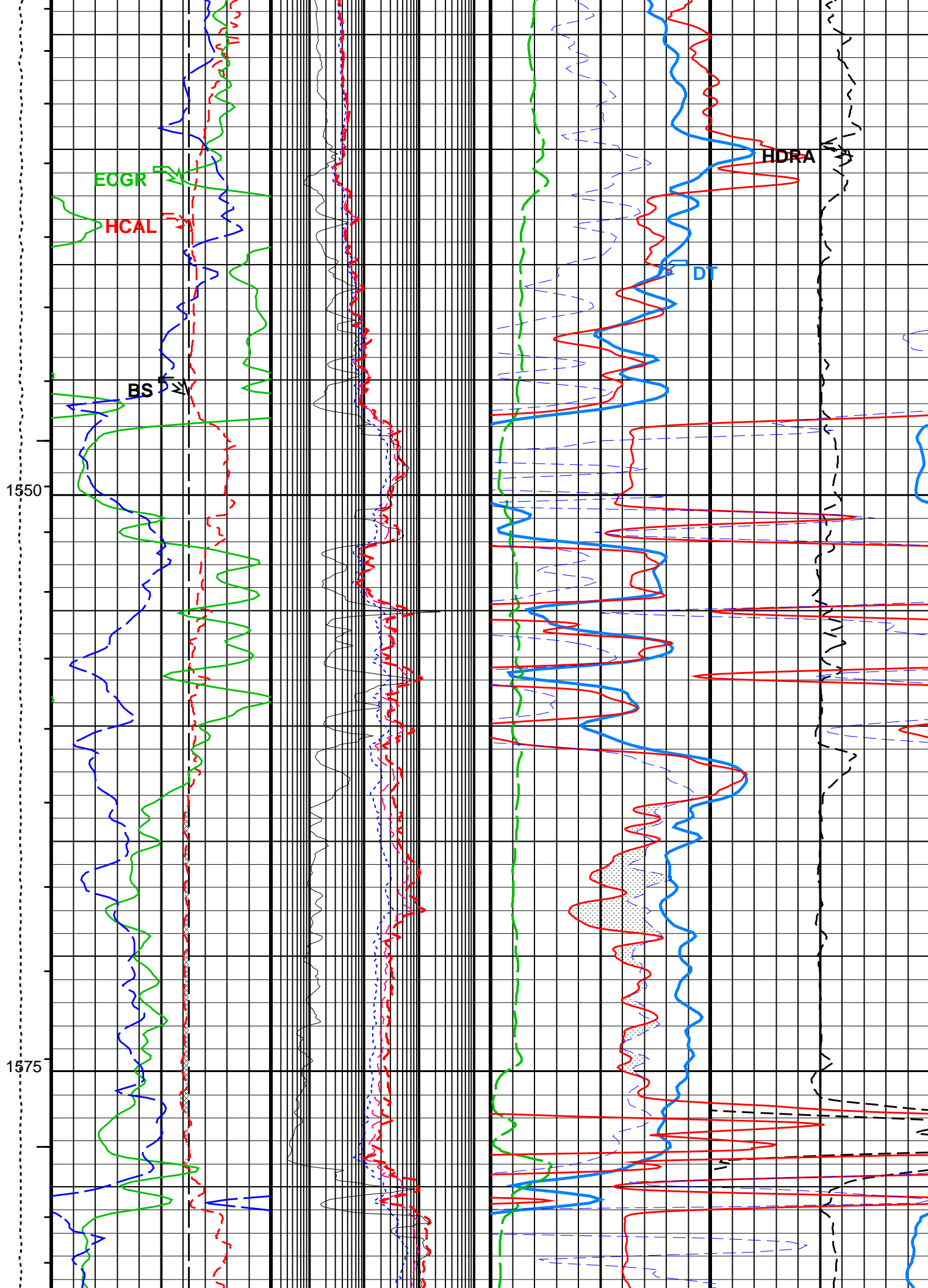


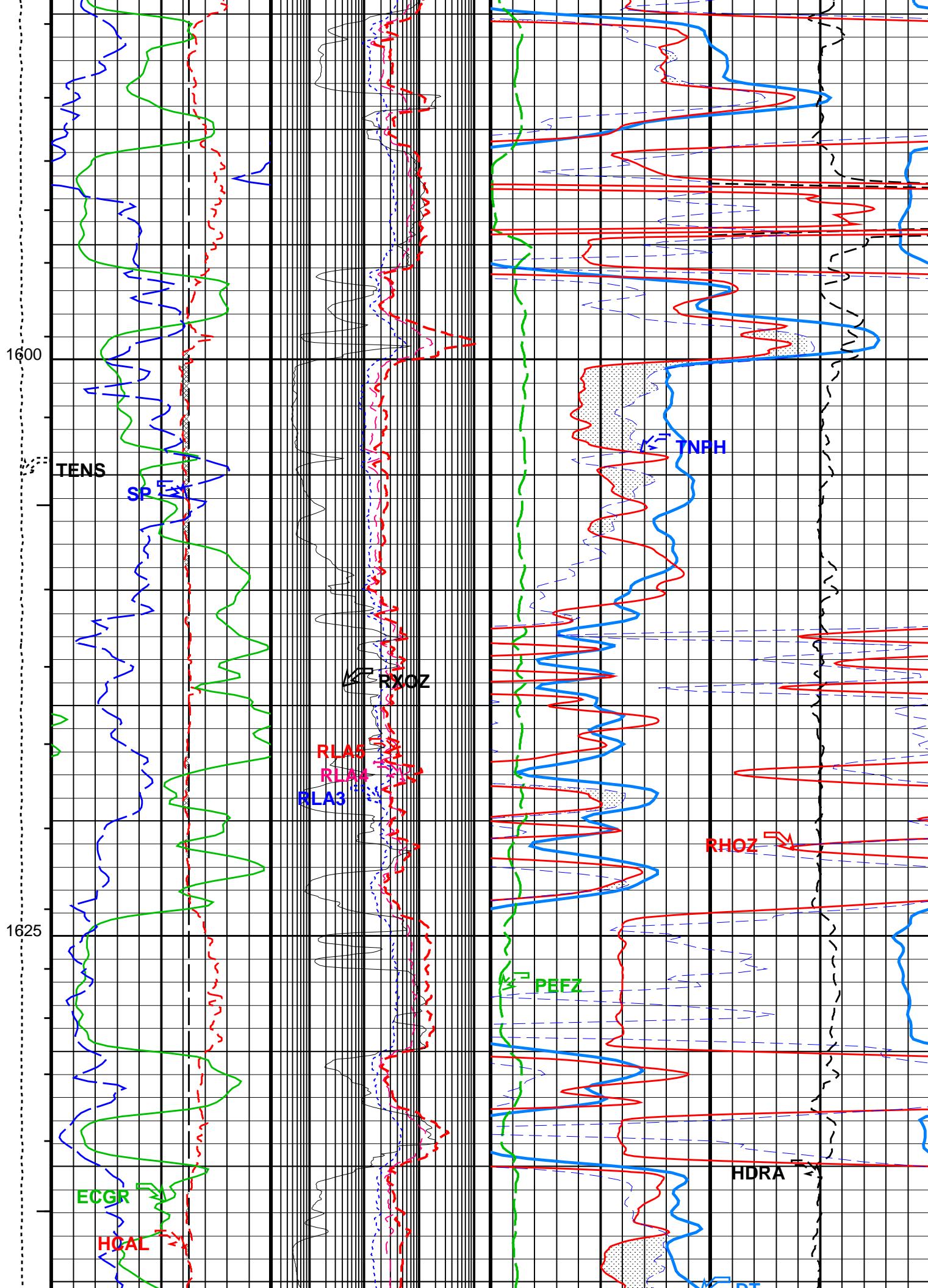


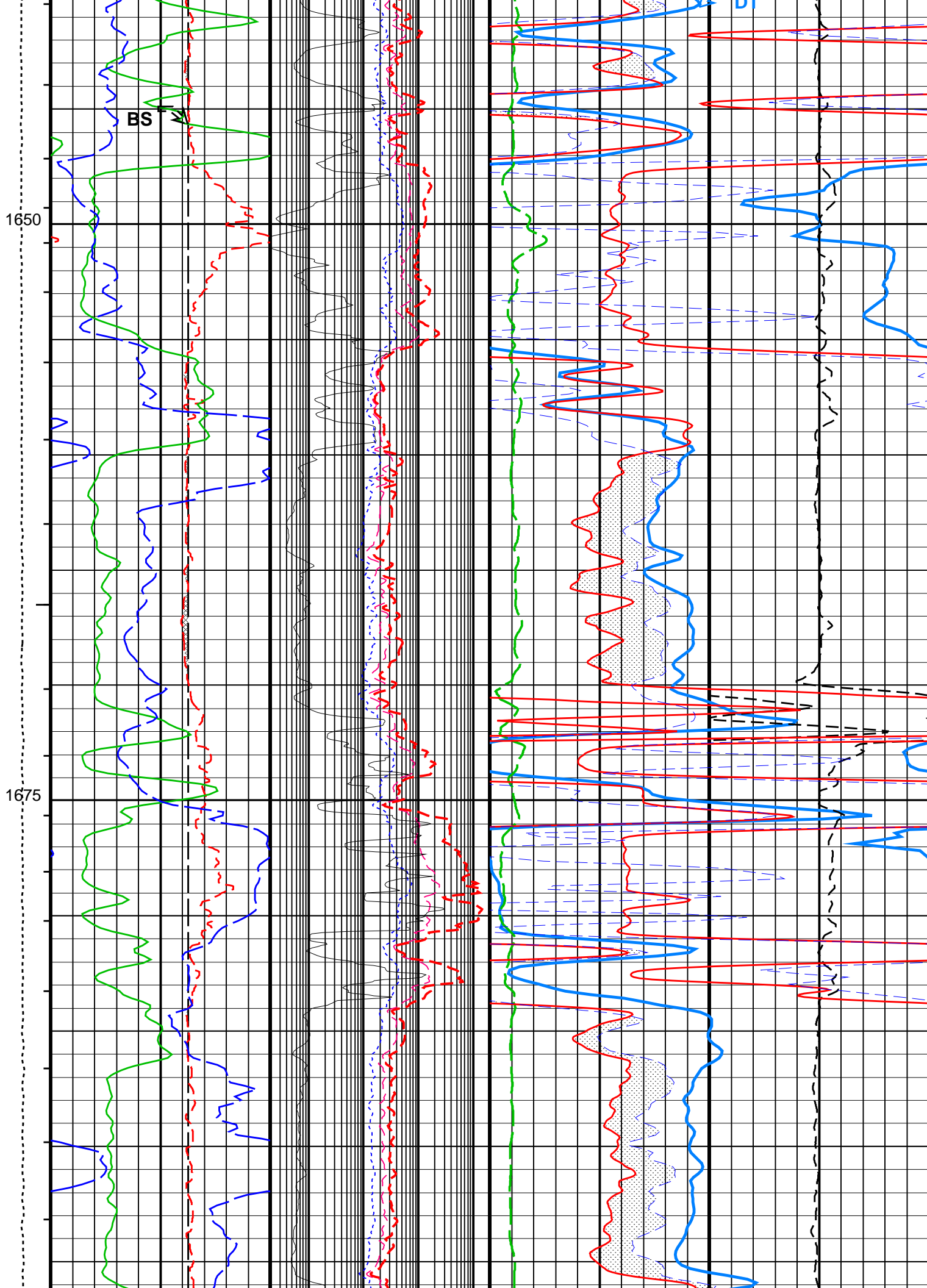


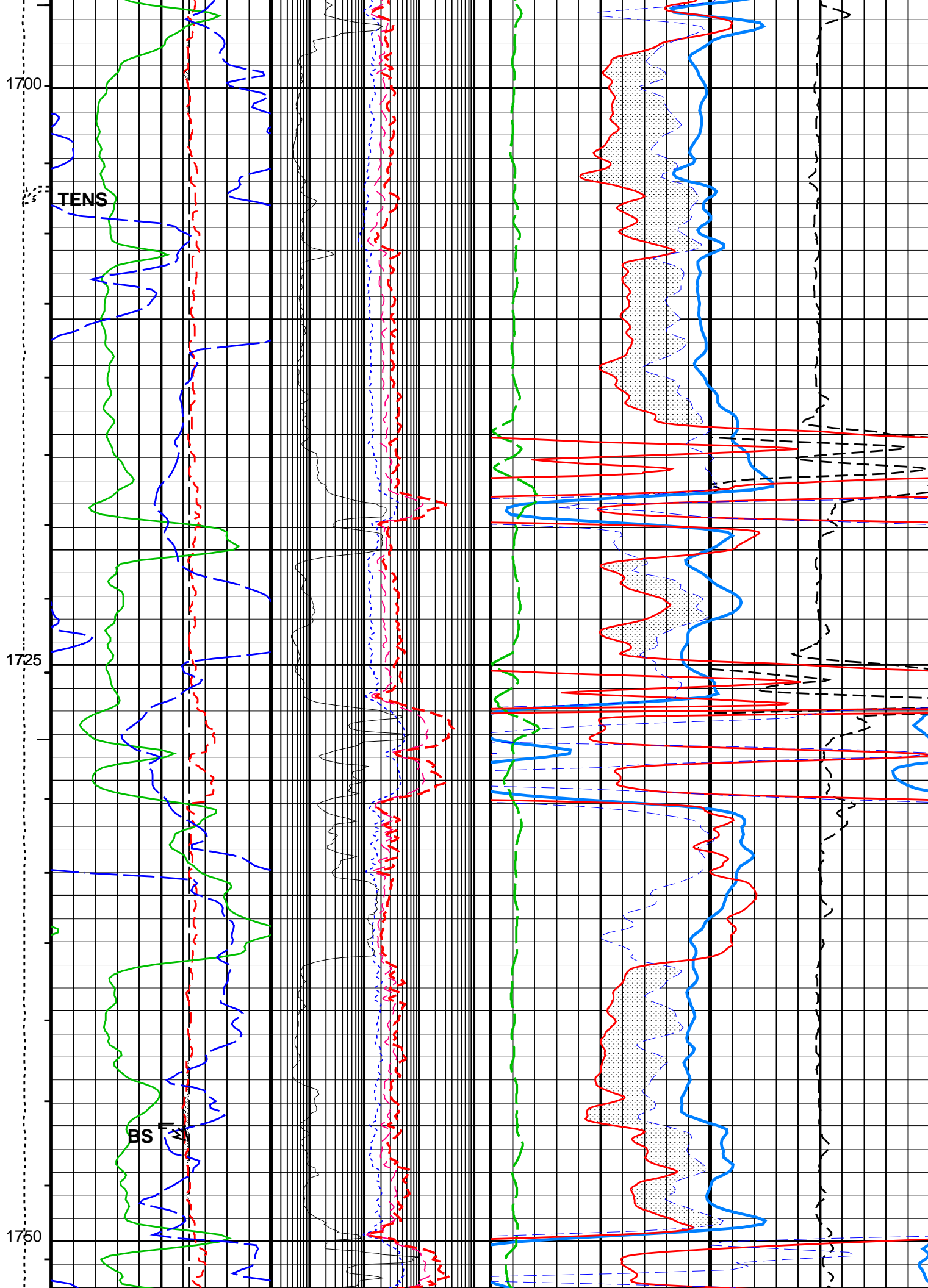


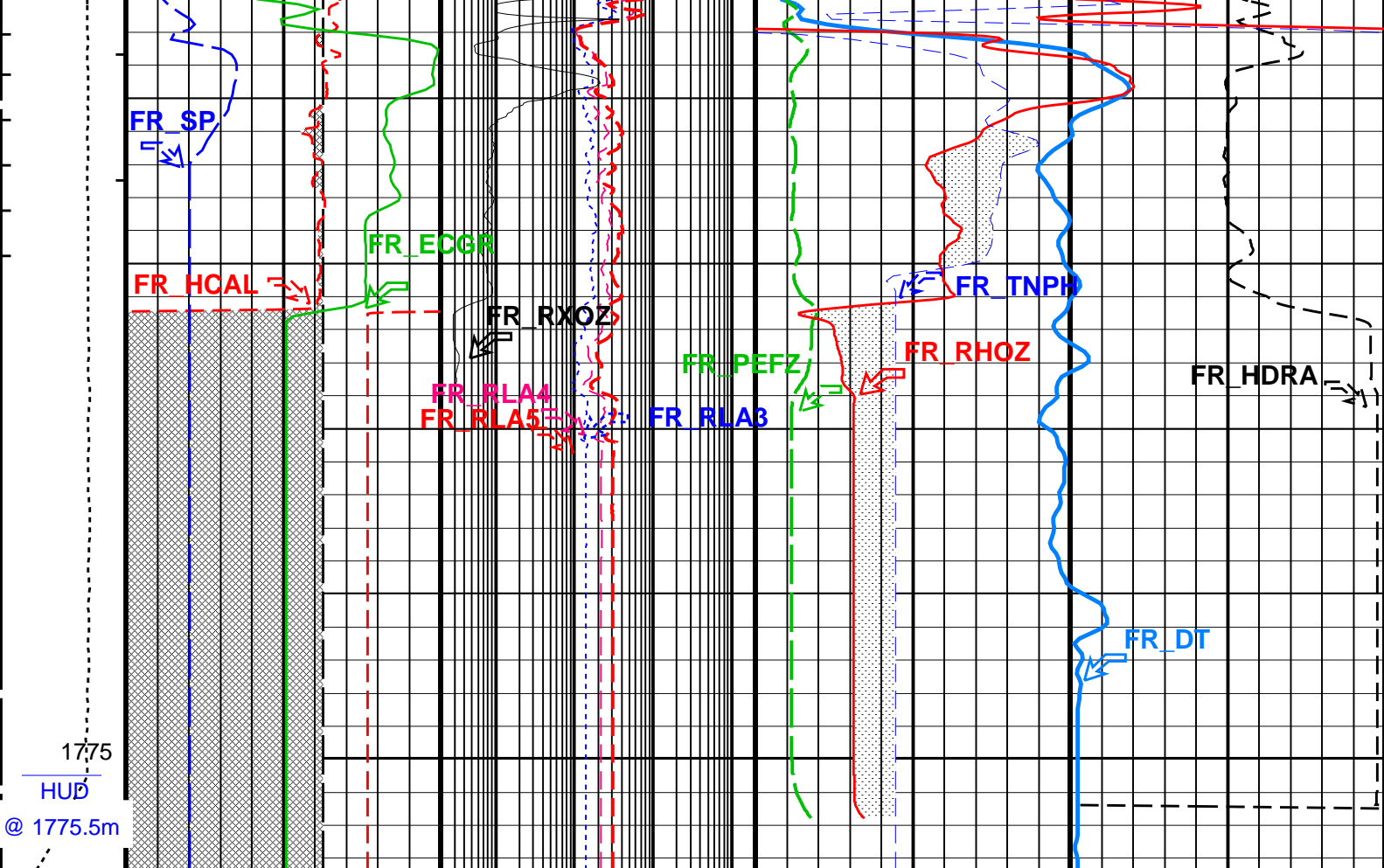












Tension (TENS) (LBF)	Bit Size (BS) (IN)	HRLT Resistivity 3 (RLA3) (OHMM)	Delta-T (DT) (US/F)
6 0 5000	6 16	0.2 2000	140 40
HILT Caliper (HCAL) (IN)		HRLT Resistivity 4 (RLA4) (OHMM)	Sand From RHOZ to TNPH
6 16	0.2 2000		
Gamma Ray (ECGR) (GAPI)	HRLT Resistivity 5 (RLA5) (OHMM)	Std. Res. Formation Pe (PEFZ)	Density Correction (HDRA)
0 200	0.2 2000	0 10	-0.25 (G/C3) 0.25
SP (SP) (MV)	Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)	Std. Res. Formation Density (RHOZ) (G/C3)	
-80 20	0.2 2000	1.95 2.95	
Area From HCAL to BS		Env.Corr.Thermal Neutron Porosity (TNPH) (V/V)	
		0.45 -0.15	

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
 - Integrated Cement Volume Minor Pip Every 0.1 M3
 - Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSLT-FTB: Digitizing	Sonic Logging Tool	DSLC_FTB
	Telemetry Mode	SDDB
	DSLT Firing Mode	ON
AGC	Automatic Gain Control Status	140 US
AMSG	Auxiliary Minimum Sliding Gate	1
CBAF	CBL Adjustment Factor	45 US
CBLG	CBL Gate Width	100 US/F
CDS	C-Delta-T Shale	

CDTS	C-Delta-T State	100	US/F
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E2	
DFAD	Digital First Arrival Detection Switch	HOST	
DIVL	DSLT Depth Sampling Interval	20	
DRCS	DSLT DLIS Recording Size	180	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLCT Telemetry Frame Size	396	
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizing Word Count	180	
GAI	Manual Gain	40	
ITTS	Integrated Transit Time Source	DT	
MAHTR	Manual High Threshold Reference	120	
MGAI	Maximum Gain	60	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	100	
MODE	Sonic Firing Mode	Sddb	
NMSG	Near Minimum Sliding Gate	140	US
NMXG	Near Maximum Sliding Gate	1060	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R15	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	10	DB/M
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	AUTO	
SGCL	Sliding Gate Closing Delta-T	140	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	40	US/F
SGW	Sliding Gate Width	110	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	40	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGAJ	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
HRLT-B: High Resolution Laterolog Array - E			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	68	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	70.262	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	BARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	OFF	
LOOPMOD1	HRLT Mode 1 Loop Mode	OFF	
LOOPMOD2	HRLT Mode 2 Loop Mode	OFF	
LOOPMOD3	HRLT Mode 3 Loop Mode	OFF	
LOOPMOD4	HRLT Mode 4 Loop Mode	OFF	
LOOPMOD5	HRLT Mode 5 Loop Mode	OFF	
LOOPMOD6	HRLT Mode 6 Loop Mode	OFF	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	RXOZ	
PROCMSO	Mechanical Standoff Fin Size	1.5	IN
PROCRM	Processing Mud Resistivity Select	External_GRSE	
PROCSPO	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	35	DEGC
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	68	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	

EXSICL	External Shale Indicator Clean Value	20	
EXSISH	External Shale Indicator Shale Value	150	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HACPP	Accelerometer PROM Presence	PRESENT_FILE	
HART	Accelerometer Reference Temperature	20	DEGC
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3
HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
HSCO	Hole Size Correction Option	YES	
HSIS	HILT Shale Indicator Selection	GR	
HSSO	HRDD Nuclear Source Strength Option	NORMAL	
HSWCUT	HILT Water Saturation from AITH cutoff	50	%
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MDEN	Matrix Density	2.71	G/C3
MHC0	MCFL B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC1	MCFL B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC	MCFL High Contrast Correction Switch	NO	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	35	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
DIR: Directional Survey Computation			
SPED	East Departure of Starting Point	0	M
SPND	North Departure of Starting Point	0	M
SPVD	TVD of Starting Point	0	M
TAZI	Vertical Section Azimuth	0	DEG
TIED	East Departure of Tie-in Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIND	North Departure of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	68	DEGC
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	1810.00	M
TDL	Total Depth - Logger	1775.50	M
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	51637.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	0.00	LB/F

DFD	Drilling Fluid Density	1.16	G/C3
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	22.70	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.1014	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1761	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: SON_RES_DENS_NEU_GR_SP_D200 Vertical Scale: 1:200 Graphics File Created: 10-May-2008 15:46

OP System Version: 15C0-309

MCM

DSLTT-FTB	SKK-3562-MAST_b	HRLT-B	SRPC-3546-Q1_2008_OP15_b
HILTB-FTB	SRPC-3546-Q1_2008_OP15_b	DTC-H	SKK-3493-EDTCB_b
BSP	SRPC-3546-Q1_2008_OP15_b		

Input DLIS Files

Splice_SONIC_HRLA_006CUP	FN:1	07-May-2008 21:02	1778.4 M	101.5 M
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Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_008PUP	FN:13	PRODUCER	10-May-2008 15:46
CUSTOMER	SONIC_HRLA_TLD_MCFL_008PUC	FN:14	CUSTOMER	10-May-2008 15:46

Schlumberger

Repeat Analysis

MAXIS Field Log

Company: 3D Oil

Well: West Seahorse 3

Input DLIS Files

	Splice_SONIC_HRLA_006CUP	FN:1	07-May-2008 21:02	1778.4 M	101.5 M
DEFAULT	SONIC_HRLA_TLD_MCFL_002PUP	FN:1	PRODUCER	10-May-2008 14:44	1705.1 M
				1705.1 M	1535.3 M

Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_008PUP	FN:13	PRODUCER	10-May-2008 15:46
CUSTOMER	SONIC_HRLA_TLD_MCFL_008PUC	FN:14	CUSTOMER	10-May-2008 15:46

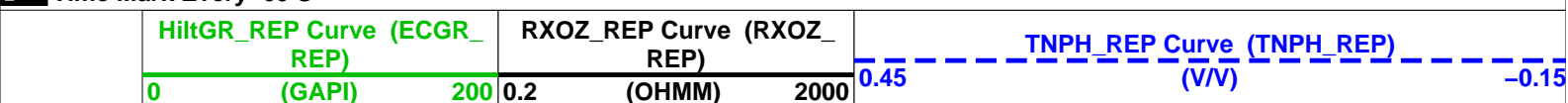
OP System Version: 15C0-309

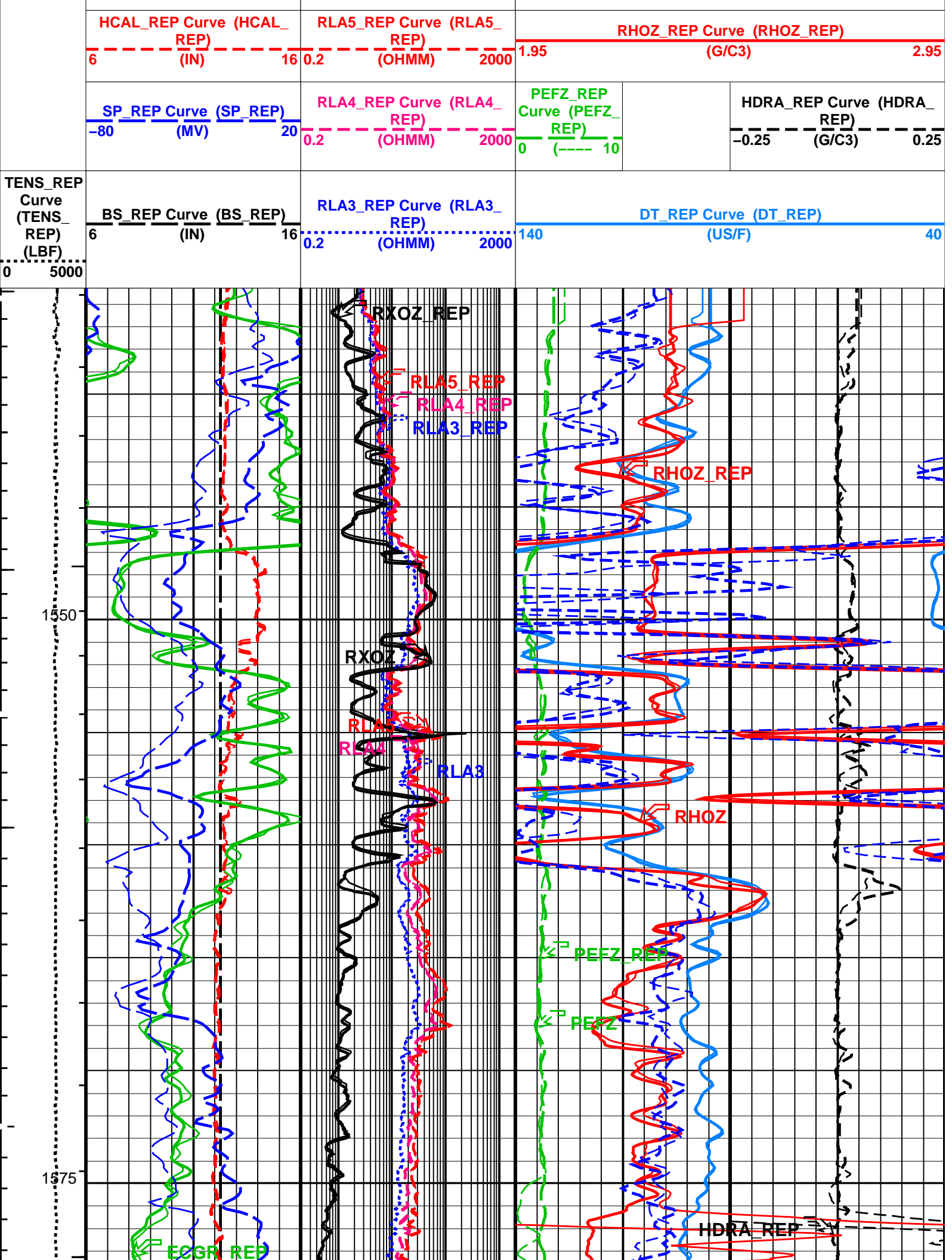
MCM

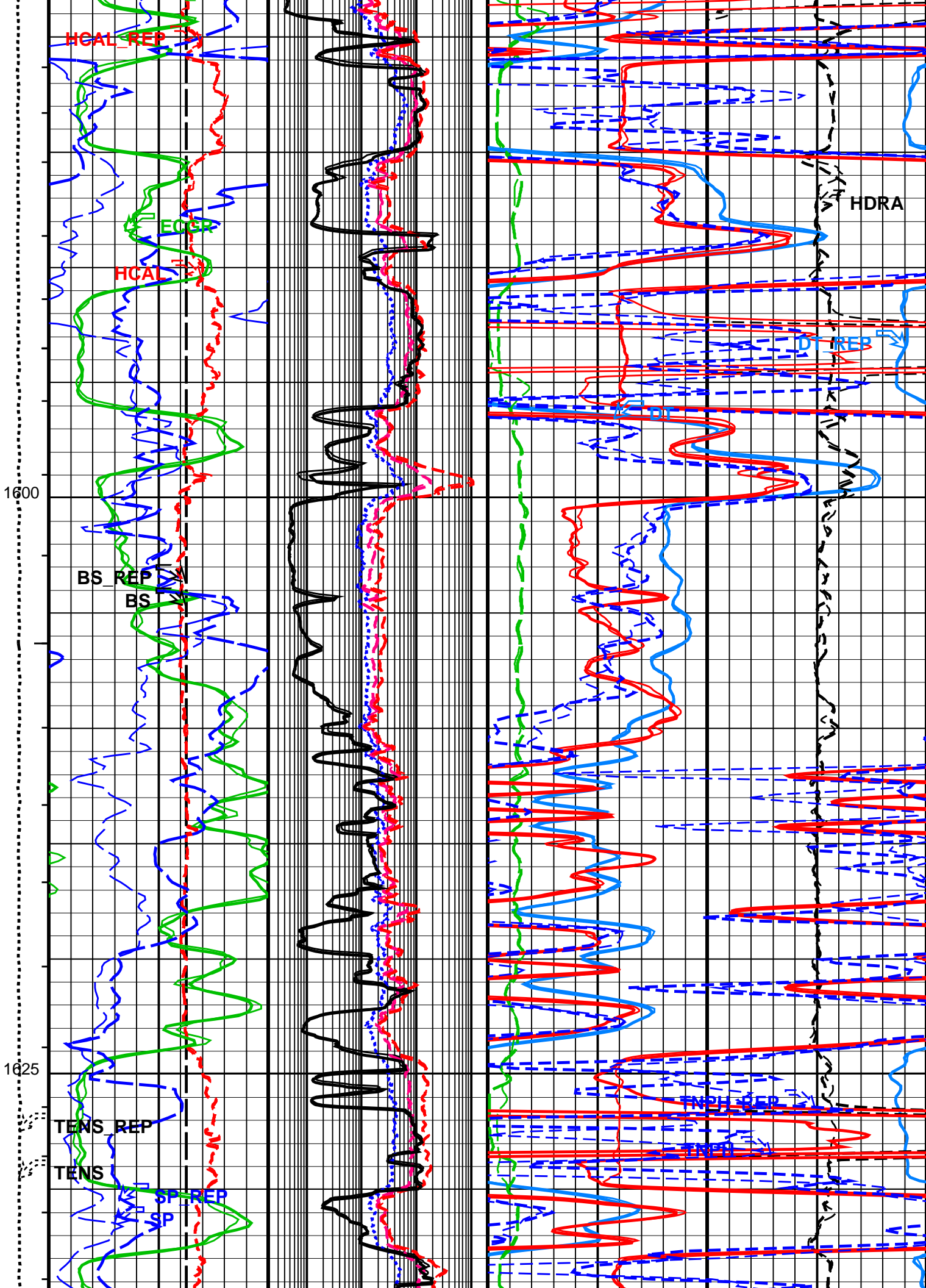
DSLTT-FTB	SKK-3562-MAST_b	HRLT-B	SRPC-3546-Q1_2008_OP15_b
HILTB-FTB	SRPC-3546-Q1_2008_OP15_b	DTC-H	SKK-3493-EDTCB_b
BSP	SRPC-3546-Q1_2008_OP15_b		

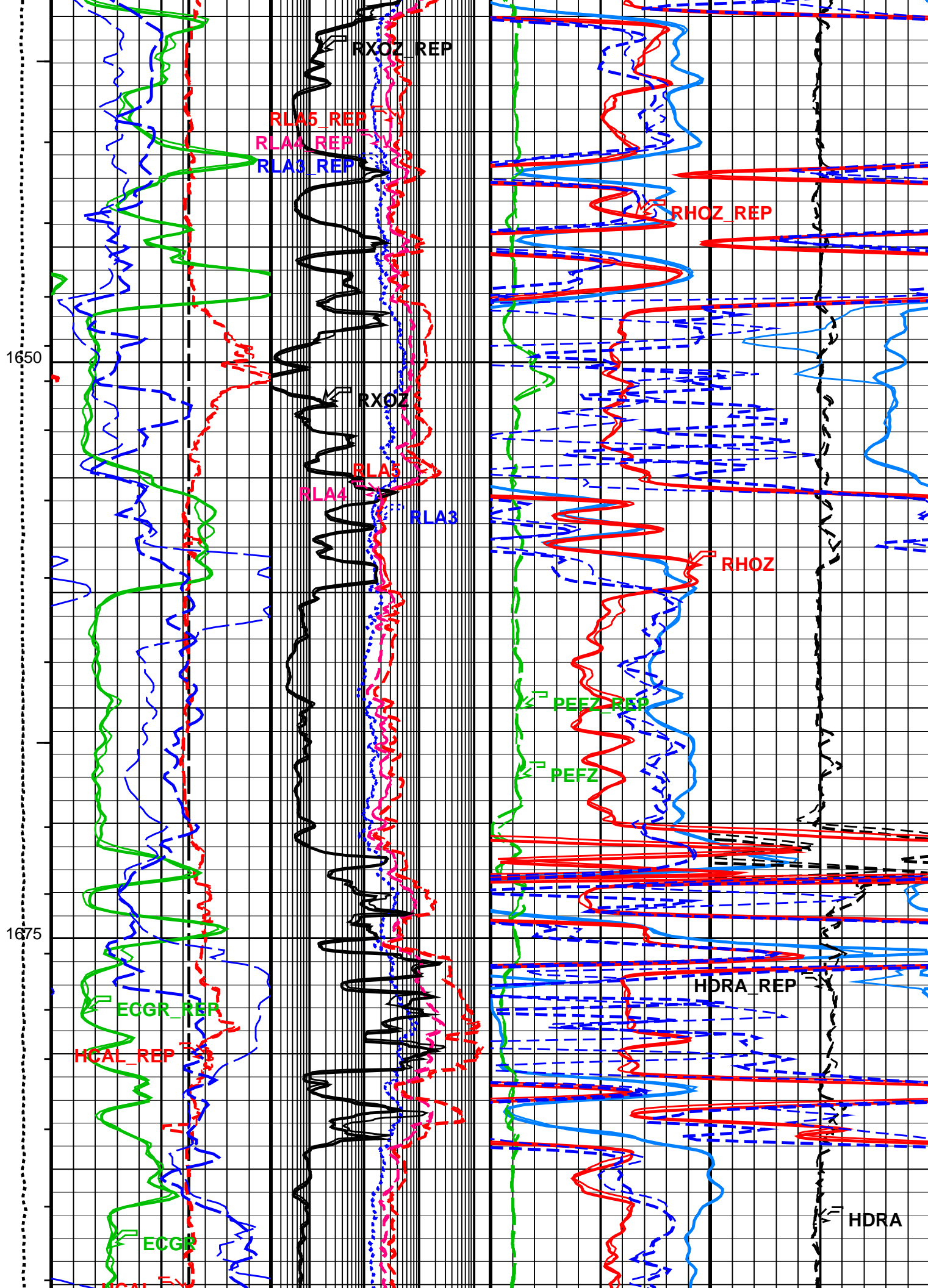
PIP SUMMARY

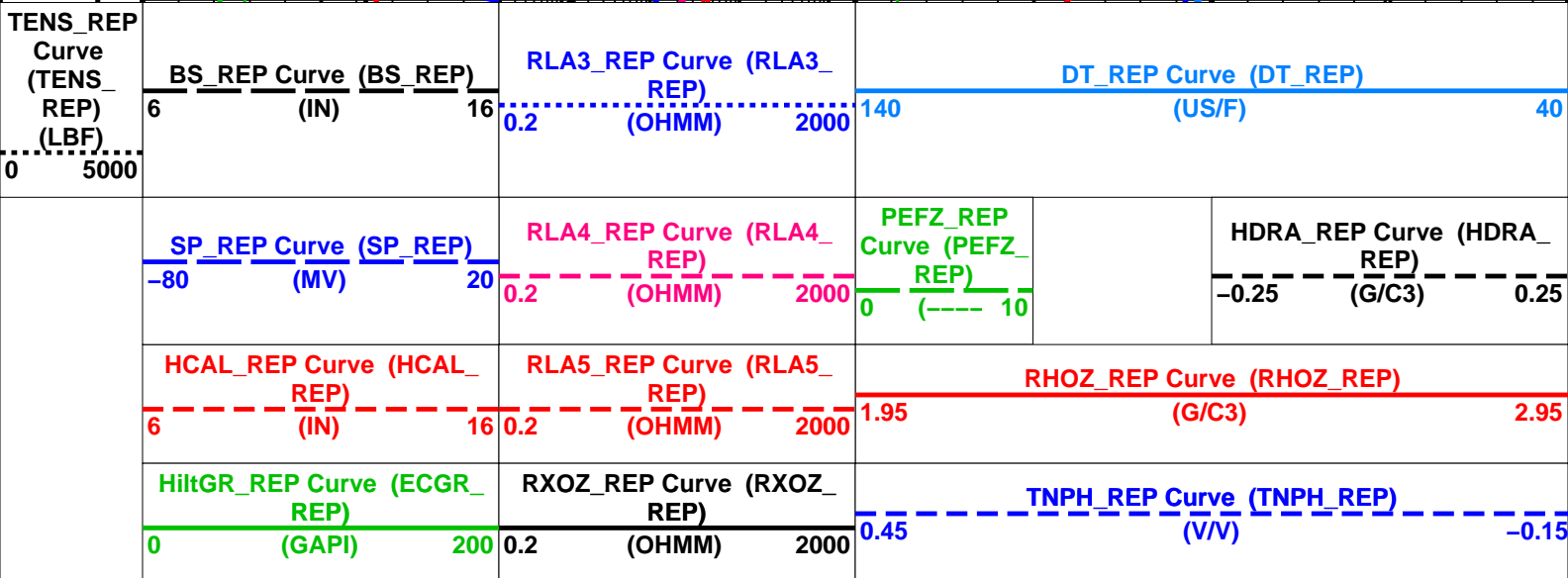
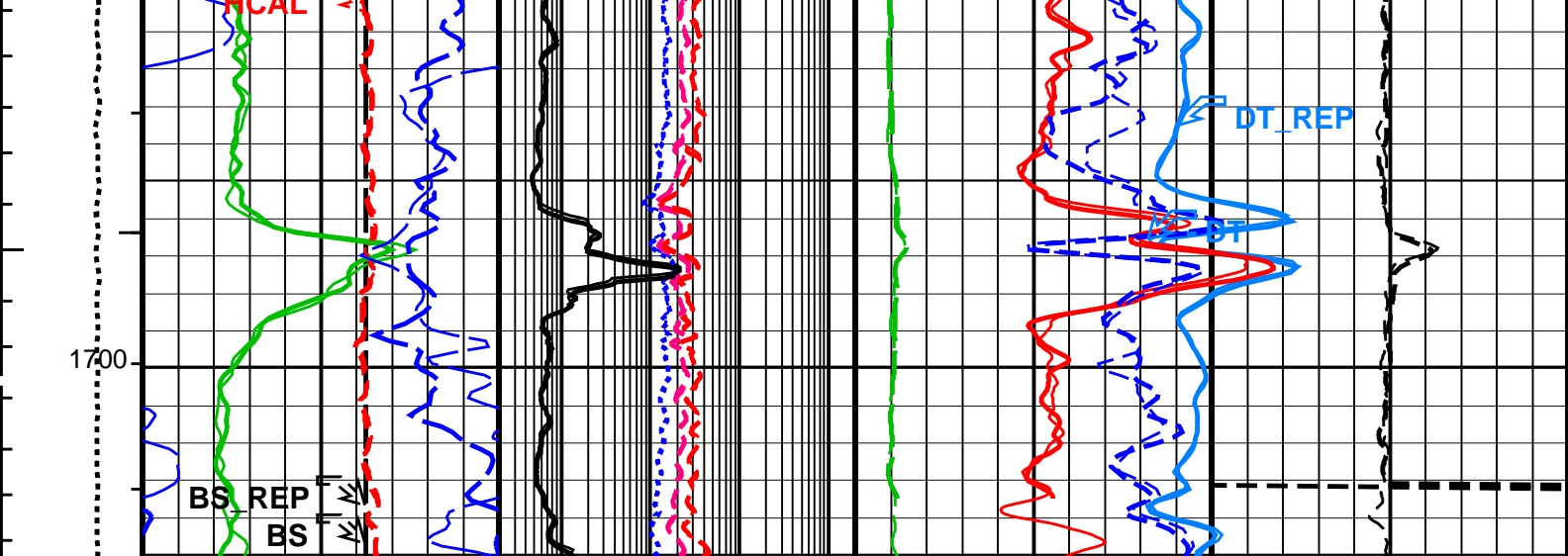
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S











PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSLT-FTB: Digitizing	Sonic Logging Tool	DSLC_FTB
AGC	Telemetry Mode	SDDB
AMSG	DSLT Firing Mode	ON
CBAF	Automatic Gain Control Status	140 US
CBLG	Auxiliary Minimum Sliding Gate	1
CBLG	CBL Adjustment Factor	45 US
CDTS	CBL Gate Width	100 US/F
DDEL	C-Delta-T Shale	0 US
DETE	Digitizing Delay	E2
DFAD	Delta-T Detection	HOST
DIVL	Digital First Arrival Detection Switch	20
DRCS	DSLT Depth Sampling Interval	180
DSIN	DSLT DLIS Recording Size	10
DTCM	Digitizing Sample Interval	FULL
DTF	Delta-T Computation Mode	189 US/F
DTFS	Delta-T Fluid	396
DTM	DSLC Telemetry Frame Size	56 US/F
DWCO	Delta-T Matrix	180
GAI	Digitizing Word Count	40
ITTS	Manual Gain	DT
MAHTR	Integrated Transit Time Source	120
MGA	Manual High Threshold Reference	60
MIGA	Maximum Gain	1
MNHTR	Minimum Gain	100
	Minimum High Threshold Reference	

MODE	Sonic Firing Mode	SDDB	
NMSG	Near Minimum Sliding Gate	140	US
NMXG	Near Maximum Sliding Gate	1060	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R15	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	10	DB/M
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	AUTO	
SGCL	Sliding Gate Closing Delta-T	140	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	40	US/F
SGW	Sliding Gate Width	110	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	40	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGAI	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
HRLT-B: High Resolution Laterolog Array - E			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	68	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	70.262	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	BARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	OFF	
LOOPMOD1	HRLT Mode 1 Loop Mode	OFF	
LOOPMOD2	HRLT Mode 2 Loop Mode	OFF	
LOOPMOD3	HRLT Mode 3 Loop Mode	OFF	
LOOPMOD4	HRLT Mode 4 Loop Mode	OFF	
LOOPMOD5	HRLT Mode 5 Loop Mode	OFF	
LOOPMOD6	HRLT Mode 6 Loop Mode	OFF	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROGINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	RXOZ	
PROCMSO	Mechanical Standoff Fin Size	1.5	IN
PROCRM	Processing Mud Resistivity Select	External_GRSE	
PROCSPO	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	35	DEGC
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	68	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
EXSICL	External Shale Indicator Clean Value	20	
EXSISH	External Shale Indicator Shale Value	150	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HACPP	Accelerometer PROM Presence	PRESENT_FILE	
HART	Accelerometer Reference Temperature	20	DEGC
HDCOD	HILT Density Coal detection	2	G/C3
HDSAD	HILT Density Salt detection	2.1	G/C3

HILT_GAS_DENSITY	HILT Gas Downhole Density	0	G/C3
HILT_GAS_OPTION	HILT Gas Computation Option	OFF	
HNCOD	HILT Neutron Coal detection	45	PU
HNSAD	HILT Neutron Salt detection	5	PU
HPHIECUT	HILT effective Porosity Cutoff	5	PU
HSCO	Hole Size Correction Option	YES	
HSIS	HILT Shale Indicator Selection	GR	
HSSO	HRDD Nuclear Source Strength Option	NORMAL	
HSWCUT	HILT Water Saturation from AITH cutoff	50	%
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MDEN	Matrix Density	2.71	G/C3
MHC0	MCFL B0 Contrast Correction Coefficient	2.2e-005	OHMS
MHC1	MCFL B1 Contrast Correction Coefficient	3.2e-005	OHMS
MHCC	MCFL High Contrast Correction Switch	NO	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PEA_FILTER	PEA Filter	NO_FILTER	
PEFC_FILTER	PEFC Filter	NO_FILTER	
PHIMAX	HILT max porosity	35	PU
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SEXP_HILT	HILT Saturation Exponent	2	
SHT	Surface Hole Temperature	35	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
DIR: Directional Survey Computation			
SPED	East Departure of Starting Point	0	M
SPND	North Departure of Starting Point	0	M
SPVD	TVD of Starting Point	0	M
TAZI	Vertical Section Azimuth	0	DEG
TIED	East Departure of Tie-in Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIND	North Departure of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	68	DEGC
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	1810.00	M
TDL	Total Depth - Logger	1775.50	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	51637.00	PPM
CSIZ	Current Casing Size	13.375	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	1.16	G/C3
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	22.70	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.1014	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1761	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: SON_RES_DENS_NEU_GR_SP_D200_REP Vertical Scale: 1:200 Graphics File Created: 10-May-2008 15:46

OP System Version: 15C0-309

MCM

Input DLIS Files

	Splice_SONIC_HRLA_006CUP	FN:1		07-May-2008 21:02	1778.4 M	101.5 M
DEFAULT	SONIC_HRLA_TLD_MCFL_002PUP	FN:1	PRODUCER	10-May-2008 14:44	1705.1 M	1535.3 M

Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_008PUP	FN:13	PRODUCER	10-May-2008 15:46
CUSTOMER	SONIC_HRLA_TLD_MCFL_008PUC	FN:14	CUSTOMER	10-May-2008 15:46

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01							
Before: 5-May-2008 10:46							
HRLT M0-M1 Voltage Plus – 0	0	N/A	-318.4	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-348.5	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-355.0	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-342.6	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-323.0	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-330.4	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	311.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 7	0	N/A	-322.7	N/A	N/A	9.681	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12							
Before: 5-May-2008 10:46							
HRLT M1-M2 Voltage Plus – 0	0	N/A	1749	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1913	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1944	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1876	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1770	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1812	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1719	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23							
Before: 5-May-2008 10:46							
HRLT M2-M3 Voltage Plus – 0	0	N/A	1731	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1898	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1932	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1869	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1760	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1804	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1695	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34							
Before: 5-May-2008 10:46							
HRLT A3-A4 Voltage Plus – 0	0	N/A	68570	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	75520	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	77060	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	74690	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	70130	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	71800	N/A	N/A	2100	UV

HRLT A3-A4 Voltage Plus - 6	0	N/A	-66420	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45

Before: 5-May-2008 10:46

HRLT A4-A5 Voltage Plus - 0	0	N/A	68380	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	75380	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	76900	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	74530	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69960	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	71630	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-66300	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56

Before: 5-May-2008 10:46

HRLT A5-A6 Voltage Plus - 0	0	N/A	68530	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	75670	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	77170	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	74750	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	70110	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	71760	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-66600	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP

Before: 5-May-2008 10:46

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68100	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-75370	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-76950	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-74650	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-70110	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-71770	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	66260	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD

Before: 5-May-2008 10:46

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-67680	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-75750	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-76880	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-74400	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-70870	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-72260	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	66590	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO

Before: 5-May-2008 10:46

HRLT Source Current Plus - 0	0	N/A	283.9	N/A	N/A	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	N/A	N/A	8.520	UA

High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV

Before: 5-May-2008 10:46

HRLT Vertical Voltage PI - 0	0	N/A	-320.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-343.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-348.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-334.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-311.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-334.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	320.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Stab Measurement Summary

Before: 3-May-2008 4:06

BS Window Ratio	0.7659	N/A	0.7656	N/A	N/A	N/A	
BS Window Sum	10570	N/A	10540	N/A	N/A	N/A	CPS
SS Window Ratio	0.4894	N/A	0.4901	N/A	N/A	N/A	
SS Window Sum	10320	N/A	10290	N/A	N/A	N/A	CPS
LS Window Ratio	0.3022	N/A	0.2976	N/A	N/A	N/A	
LS Window Sum	1161	N/A	1152	N/A	N/A	N/A	CPS

High resolution Integrated Logging Tool-DTS Wellsite Calibration - Photo-multiplier High Voltages Calibrations

Before: 3-May-2008 4:06

BS PM High Voltage (Command)	1234	N/A	1249	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1026	N/A	1022	N/A	N/A	N/A	V

SS PM High Voltage (Command)	1928	N/A	1932	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1402	N/A	1406	N/A	N/A	N/A	V
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration							
Before: 3–May–2008 4:06							
BS Crystal Resolution	9.798	N/A	9.751	N/A	N/A	N/A	%
SS Crystal Resolution	10.64	N/A	10.76	N/A	N/A	N/A	%
LS Crystal Resolution	9.358	N/A	9.342	N/A	N/A	N/A	%
High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration							
Before: 3–May–2008 3:59							
Raw B0 Resistivity	3875	N/A	4140	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	4129	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3987	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool–DTS Wellsite Calibration – HILT Caliper Calibration							
Before: 3–May–2008 4:02							
HILT Caliper Zero Measurement	8.000	N/A	8.099	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.26	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Detector Calibration							
Before: 3–May–2008 3:57							
Gamma Ray Background	30.00	N/A	6.524	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkg)	172.9	N/A	172.9	N/A	N/A	15.72	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Zero Measurement							
Master: 20–Feb–2008 23:21 Before: 3–May–2008 4:01							
CNTC Background	29.71	29.71	27.25	N/A	N/A	4.457	CPS
CFTC Background	33.75	33.75	29.34	N/A	N/A	5.063	CPS
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Ratio Measurement							
Master: 20–Feb–2008 23:21							
Thermal Near Corr. (Tank)	5800	5605	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2340	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.395	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool–DTS Wellsite Calibration – Accelerometer Calibration							
Before: 5–May–2008 7:56							
Z–Axis Acceleration	9.810	N/A	9.798	N/A	N/A	N/A	M/S2
High resolution Integrated Logging Tool–DTS Master Calibration – Inversion results							
Master: 16–Apr–2008 0:33							
Rho Aluminum	2.596	2.595	--	--	--	--	G/C3
Rho Magnesium	1.686	1.689	--	--	--	--	G/C3
Pe Aluminum	2.570	2.542	--	--	--	--	
Pe Magnesium	2.650	2.638	--	--	--	--	
High resolution Integrated Logging Tool–DTS Master Calibration – Deviation Summary							
Master: 16–Apr–2008 0:33							
BS Average Deviation	0	0.5027	--	--	--	--	%
BS Max Deviation	0	1.236	--	--	--	--	%
SS Average Deviation	0	0.6460	--	--	--	--	%
SS Max Deviation	0	1.302	--	--	--	--	%
LS Average Deviation	0	0.6624	--	--	--	--	%
LS Max Deviation	0	1.762	--	--	--	--	%
The GLS–VJ source activity is acceptable.							
The HGNS Neutron Master Calibration was done with the following parameters :							
NCT–B Water Temperature	20.0	DEGC.					
Thermal Housing Size	3.376	IN.					
NSR–F serial number	5224						

Digitizing Sonic Logging Tool / Equipment Identification

Primary Equipment:

DDBHC Sonde (3' 5' 7')

Digitizing Sonic Logging Cartridge

SLS – CB

163

DSLC – HA

8106

Auxiliary Equipment:

Electronics Cartridge Housing

ECH – KH

8161

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:

HRLT Sonde

HRLS – B

1745

Auxiliary Equipment:

HRLT lower Housing

HRLH – B

1792

HRLT Lower Cartridge

HRLC – B

1745

HRLT upper Housing

HRUH – B

1741









HRLT Upper Cartridge

HRUC – B

1780

High Resolution Laterolog Array – B Wellsite Calibration









HRLT M01

Idx	Phase	HRLT M0–M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		–318.4	–322.7	–280.7	–379.7
1	Before		–348.5	–322.7	–280.7	–379.7
2	Before		–355.0	–322.7	–280.7	–379.7
3	Before		–342.6	–322.7	–280.7	–379.7
4	Before		–323.0	–322.7	–280.7	–379.7
5	Before		–330.4	–322.7	–280.7	–379.7
6	Before		311.7	322.7	379.7	280.7
7	Before		–322.7	–322.7	–280.7	–379.7
(Minimum) (Nominal) (Maximum)						

Before: 5–May–2008 10:46

High Resolution Laterolog Array – B Wellsite Calibration









HRLT M12

Idx	Phase	HRLT M1–M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1749	1781	2095	1549
1	Before		1913	1781	2095	1549
2	Before		1944	1781	2095	1549
3	Before		1876	1781	2095	1549
4	Before		1770	1781	2095	1549
5	Before		1812	1781	2095	1549
6	Before		–1719	–1781	–1549	–2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						


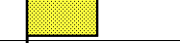


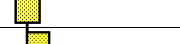


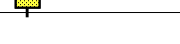
Before: 5–May–2008 10:46

High Resolution Laterolog Array – B Wellsite Calibration








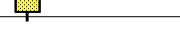
HRLT M23

Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1731	1781	2095	1549
1	Before		1898	1781	2095	1549
2	Before		1932	1781	2095	1549
3	Before		1869	1781	2095	1549
4	Before		1760	1781	2095	1549
5	Before		1804	1781	2095	1549
6	Before		–1695	–1781	–1549	–2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						



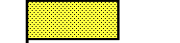





Before: 5-May-2008 10:46

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68570	70000	82360	60900
1	Before		75520	70000	82360	60900
2	Before		77060	70000	82360	60900
3	Before		74690	70000	82360	60900
4	Before		70130	70000	82360	60900
5	Before		71800	70000	82360	60900
6	Before		-66420	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						

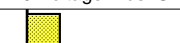



Before: 5-May-2008 10:46

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68380	70000	82360	60900
1	Before		75380	70000	82360	60900
2	Before		76900	70000	82360	60900
3	Before		74530	70000	82360	60900
4	Before		69960	70000	82360	60900
5	Before		71630	70000	82360	60900
6	Before		-66300	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						

Before: 5-May-2008 10:46

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68530	70000	82360	60900
1	Before		75670	70000	82360	60900
2	Before		77170	70000	82360	60900
3	Before		74750	70000	82360	60900
4	Before		70110	70000	82360	60900
5	Before		71760	70000	82360	60900
6	Before		-66600	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						

Before: 5-May-2008 10:46

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68100	-70000	-60900	-82360
1	Before		-75370	-70000	-60900	-82360
2	Before		-76950	-70000	-60900	-82360
3	Before		-74650	-70000	-60900	-82360

Before: 5-May-2008 10:46

Before: 5-May-2008 10:46

Before: 5-May-2008 10:46

Before: 5-May-2008 10:46

High resolution Integrated Logging Tool–DTS / Equipment Identification

Primary Equipment:

HILT high–Resolution Mechanical Sonde
HILT Rxo Gamma–ray Device
HILT Micro Cylindrically Focused Log Dev
GR Logging Source
HILT High Res. Control Cartridge
HILT Gamma–Ray Neutron Sonde–DTS
HGNS Gamma–Ray Device
HGNS Neutron Detector with Alpha Source

HRMS – B 788
HRGD – BC 1806
MCFL –
GLS – J 5334
HRCC – B 868
HGNS – B 856
HGR –
HCNT –







Auxiliary Equipment:

Neutron Calibration Tank
Gamma Source Radioactive
HGNS Housing

NCT – B
GSR – J 6750
HGNH – H 3915

High resolution Integrated Logging Tool–DTS Wellsite Calibration




Stab Measurement Summary

Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value	Phase	LS Window Ratio			Value
Before				0.7656	Before				0.4901	Before				0.2976
	0.7276 (Minimum)	0.7659 (Nominal)	0.8042 (Maximum)		0.4650 (Minimum)	0.4894 (Nominal)	0.5139 (Maximum)			0.2871 (Minimum)	0.3022 (Nominal)	0.3173 (Maximum)		
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value	Phase	LS Window Sum CPS			Value
Before				10540	Before				10290	Before				1152
	10040 (Minimum)	10570 (Nominal)	11090 (Maximum)		9808 (Minimum)	10320 (Nominal)	10840 (Maximum)			1103 (Minimum)	1161 (Nominal)	1219 (Maximum)		
Before: 3-May-2008 4:06														

Before: 3–May–2008 4:06

High resolution Integrated Logging Tool–DTS Wellsite Calibration



Photo–multiplier High Voltages Calibrations

Phase	BS PM High Voltage (Command) V			Value	Phase	SS PM High Voltage (Command) V			Value	Phase	LS PM High Voltage (Command) V			Value
Before				1249	Before				1932	Before				1406
	1134 (Minimum)	1234 (Nominal)	1334 (Maximum)		1826 (Minimum)	1926 (Nominal)	2026 (Maximum)			1302 (Minimum)	1402 (Nominal)	1502 (Maximum)		
Before: 3-May-2008 4:06														

Before: 3–May–2008 4:06

High resolution Integrated Logging Tool–DTS Wellsite Calibration

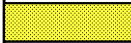
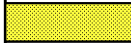
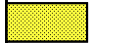
Crystal Quality Resolutions Calibration

Phase	BS Crystal Resolution %		Value	Phase	SS Crystal Resolution %		Value	Phase	LS Crystal Resolution %		Value
Before			9.751	Before			10.76	Before			9.342
	8.798 (Minimum)	9.798 (Nominal)	10.80 (Maximum)		9.644 (Minimum)	10.64 (Nominal)	11.64 (Maximum)		8.358 (Minimum)	9.358 (Nominal)	10.36 (Maximum)
Before: 3-May-2008 4:06											

Before: 3–May–2008 4:06

High resolution Integrated Logging Tool–DTS Wellsite Calibration



MCFL Calibration

Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				4140	Before				4129	Before				3987
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		
Before: 3-May-2008 3:59														

Before: 3–May–2008 3:59

High resolution Integrated Logging Tool–DTS Wellsite Calibration




HILT Caliper Calibration

Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			8.099	Before			12.26
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 3-May-2008 4:02							

Before: 3–May–2008 4:02

High resolution Integrated Logging Tool–DTS Wellsite Calibration


Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig – Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value	
Before		6.524	Before		172.9	Before		165.0	
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	157.2 (Minimum)	172.9 (Nominal)	188.6 (Maximum)	150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

(Minimum)	30.00 (Nominal)	40.00 (Maximum)	(Minimum)	101.2 (Nominal)	112.0 (Maximum)	(Minimum)	100.0 (Nominal)	100.0 (Maximum)	(Minimum)	100.0 (Nominal)	100.0 (Maximum)
Before: 3-May-2008 3:57											

High resolution Integrated Logging Tool-DTS Wellsite Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				29.71	Master				33.75
Before				27.25	Before				29.34
5.000 (Minimum)29.71 (Nominal)40.00 (Maximum)					5.000 (Minimum)33.75 (Nominal)40.00 (Maximum)				
Master: 20-Feb-2008 23:21					Before: 3-May-2008 4:01				

High resolution Integrated Logging Tool-DTS Wellsite Calibration									
Ratio Measurement									
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value
Master				5605	Master				2340
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)			1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	
					Master				2.395
						2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)	
Master: 20-Feb-2008 23:21									

High resolution Integrated Logging Tool-DTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z-Axis Acceleration M/S2	Value	
Before		9.798	
	9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)
Before: 5-May-2008 7:56			

High resolution Integrated Logging Tool-DTS Master Calibration							
Inversion results							
Phase	Rho Aluminum G/C3		Value	Phase	Rho Magnesium G/C3		Value
Master			2.595	Master			1.689
	2.586 (Minimum)	2.596 (Nominal)	2.606 (Maximum)		1.676 (Minimum)	1.686 (Nominal)	1.696 (Maximum)
Phase	Pe Aluminum		Value	Phase	Pe Magnesium		Value
Master			2.542	Master			2.638
	2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)		2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)
Master: 16-Apr-2008 0:33							

High resolution Integrated Logging Tool-DTS Master Calibration									
Deviation Summary									
Phase	BS Average Deviation %			Value	Phase	SS Average Deviation %			Value
Master				0.5027	Master				0.6460
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)			-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)	
Phase	BS Max Deviation %			Value	Phase	SS Max Deviation %			Value
Master				1.236	Master				1.302
	-1.600 (Minimum)	0 (Nominal)	1.600 (Maximum)			-2.500 (Minimum)	0 (Nominal)	2.500 (Maximum)	
Phase	LS Average Deviation %			Value	Phase	LS Max Deviation %			Value
Master				0.6624	Master				1.762
	-1.500 (Minimum)	0 (Nominal)	1.500 (Maximum)			-3.500 (Minimum)	0 (Nominal)	3.500 (Maximum)	
Master: 16-Apr-2008 0:33									

High resolution Integrated Logging Tool-DTS Master Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				29.71	Master				33.75
	5.000 (Minimum)	29.71 (Nominal)	40.00 (Maximum)			5.000 (Minimum)	33.75 (Nominal)	40.00 (Maximum)	
Master: 20-Feb-2008 23:21									

High resolution Integrated Logging Tool-DTS Master Calibration									
Tank Measurement									
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value
Master				5605	Master				2340
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)			1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	
					Master				2.395
						2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)	

Master		5605	Master		2340	Master		2.395
4700 (Minimum)	5800 (Nominal)	6900 (Maximum)	1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)
Master: 20-Feb-2008 23:21								

DTS Telemetry Tool / Equipment Identification

Primary Equipment:				
DTC-H Auxiliary Cartridge			DTCH – A	8944
DTC-H Telemetry Cartridge			DTCH – A	
Auxiliary Equipment:				
DTCH Telemetry Cartridge Housing			ECH – KC	10020



Inclination Data

MAXIS Field Log

WFTI INCLINOMETRY LIST
Meas. Tie Depth : 1094.4 M True Vert. Tie Depth: 1014.8 M |

Measured Depth (M)	Deviation (DEG)	Azimuth Depth (DEG)	True Vertical (M)
1094.4	0.00	0.00	1014.8
1094.4	0.00	0.00	1014.8
1094.4	27.04	62.76	1014.9
1143.3	25.87	63.90	1058.6
1155.2	25.58	63.60	1069.4
1184.9	25.36	62.41	1096.2
1214.5	26.03	61.94	1122.8
1244.4	26.97	60.72	1149.6
1273.7	27.88	59.68	1175.6
1303.2	28.27	60.45	1201.6
1333.1	28.34	61.52	1227.9
1362.3	28.20	62.55	1253.7
1392.5	27.26	63.55	1280.4
1421.7	25.27	66.35	1306.6
1451.6	22.70	68.06	1333.9
1481.4	20.36	68.27	1361.6
1511.2	17.26	67.69	1389.9
1540.8	13.04	64.12	1418.4

1540.8	13.04	64.12	1418.4
1570.5	10.60	59.53	1447.4
1600.2	8.72	58.21	1476.7
1629.9	8.74	68.10	1506.1
1659.0	8.55	72.75	1534.8
1688.3	8.90	69.00	1563.9
1718.0	8.56	61.35	1593.1
1747.5	8.59	54.77	1622.3
1777.4	8.68	54.87	1651.9
1789.3	8.75	55.97	1663.7
1810.0	8.75	55.97	1684.1

Company: **3D Oil Limited**

Schlumberger

Well: **West Seahorse 3**

Field: **West Seahorse**

Rig: **West Triton**

Country: **Australia**

BHC-HRLA-PEX-G

Sonic-Resistivity-Density-Neutron-G

Suite 1 Run 1 – Scale 1:200 (MD)