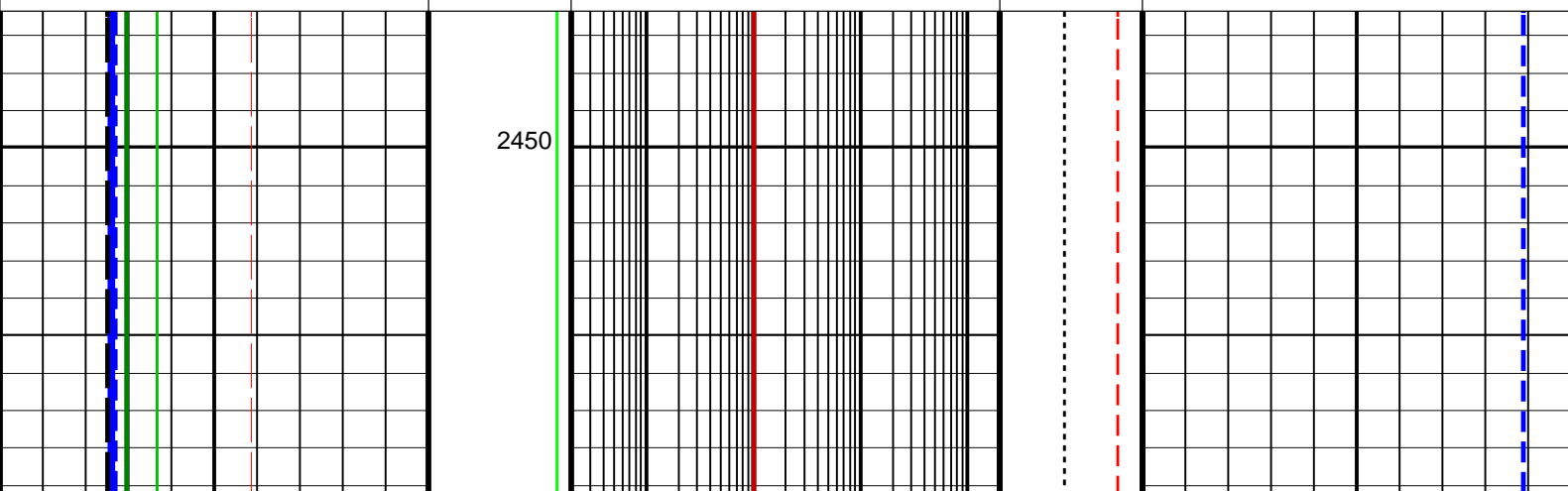
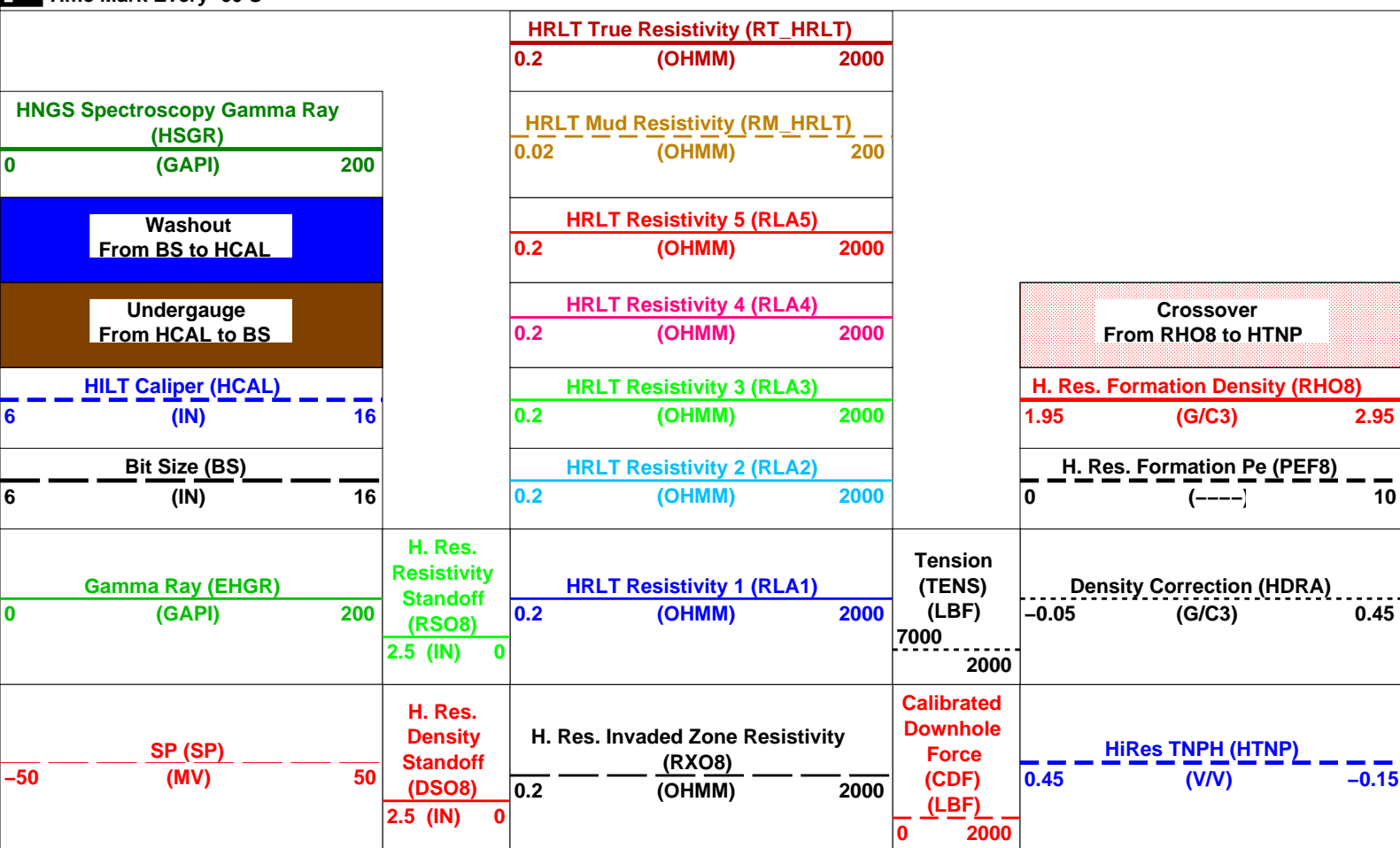


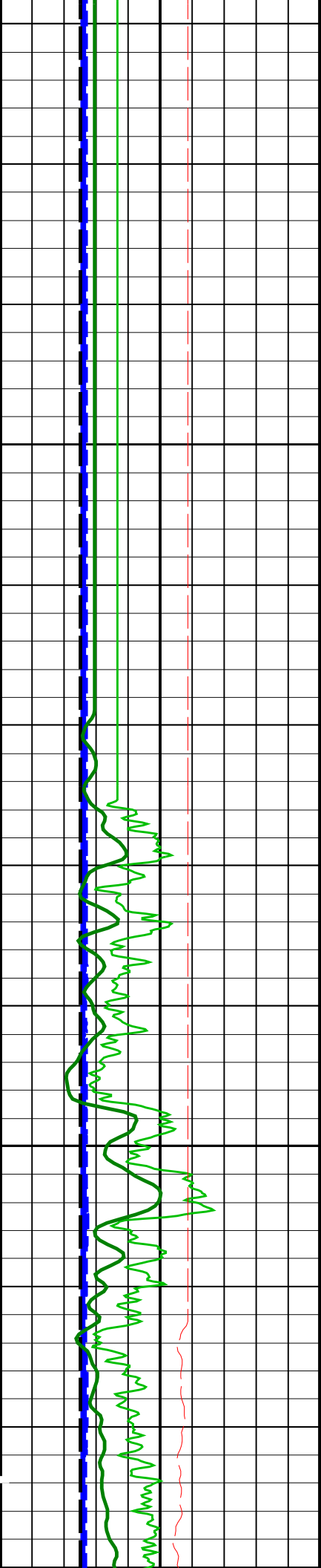
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DEFAULT	HRLA_TLD_MCFL_CNL_071PUP	FN:75	PRODUCER	19-Nov-2009 01:28	3230.1 M	2446.2 M
RTBUP	HRLA_TLD_MCFL_CNL_071PUP	FN:76	PRODUCER	19-Nov-2009 01:28	3230.1 M	2446.2 M

SPA-A	17C0-154	HRLT-B	17C0-154
HILTH-FTB	17C0-154	HNGC-B	17C0-154
HNGS-BA	SPC-3867-NUCL	CMRT-B	SPC-3874-CMR
EDTC-B	SKK-3882-EDTCB		

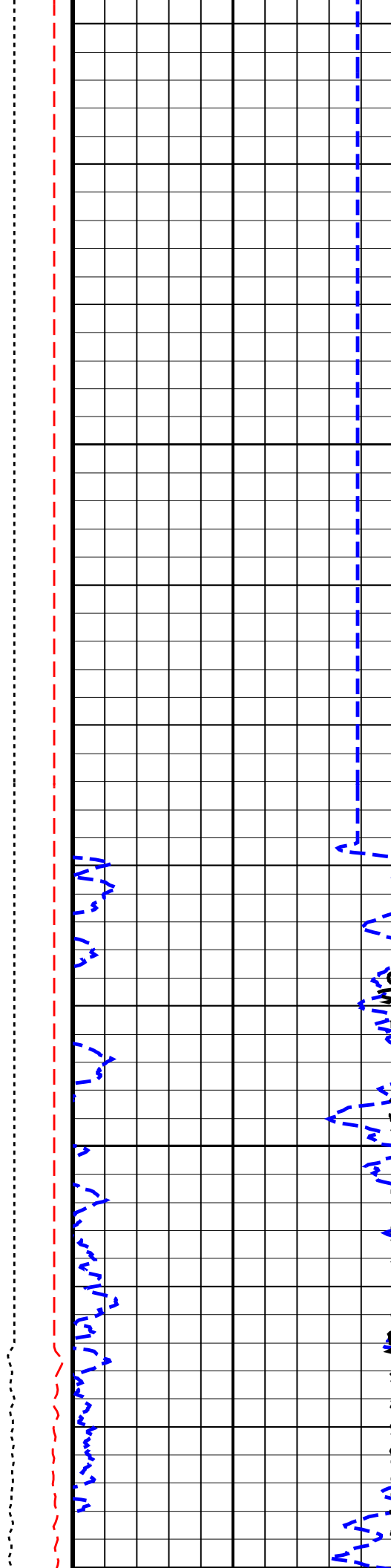
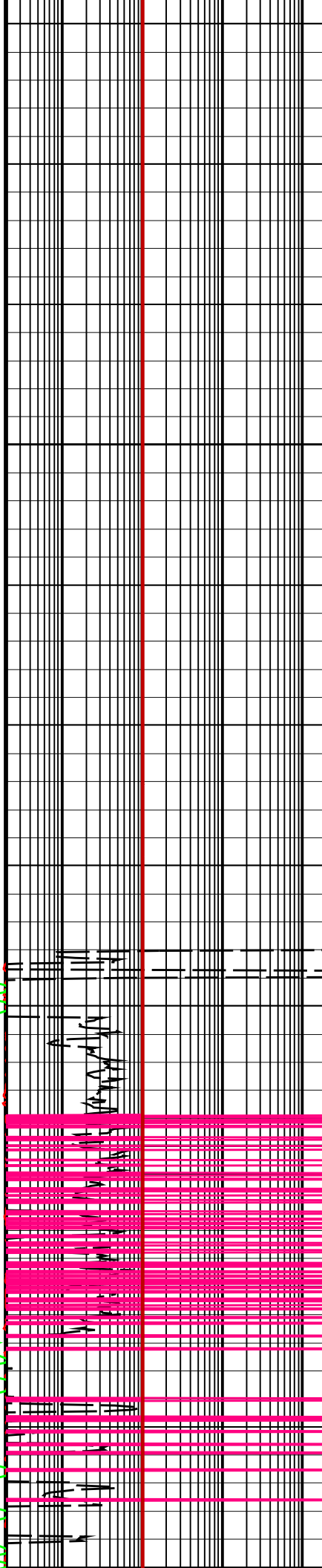
**Time Mark Every 60 S**

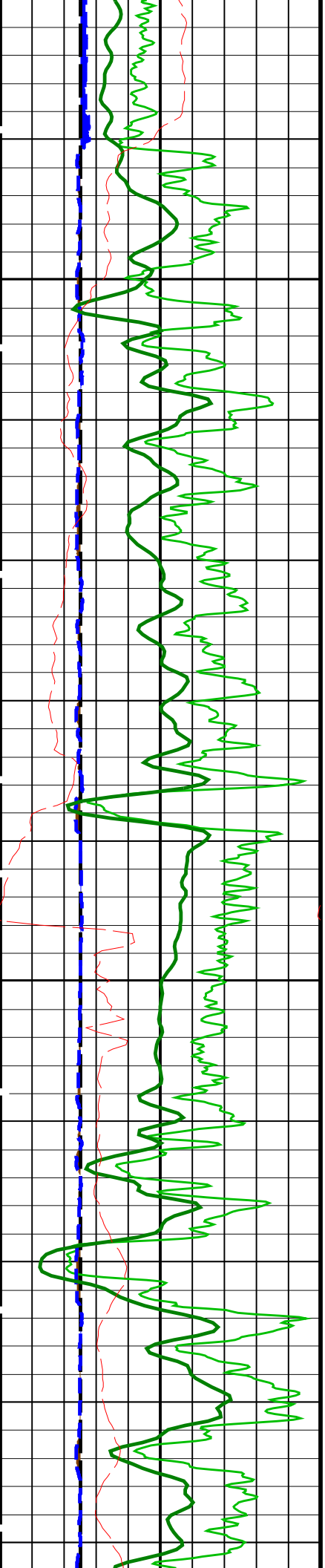




2475

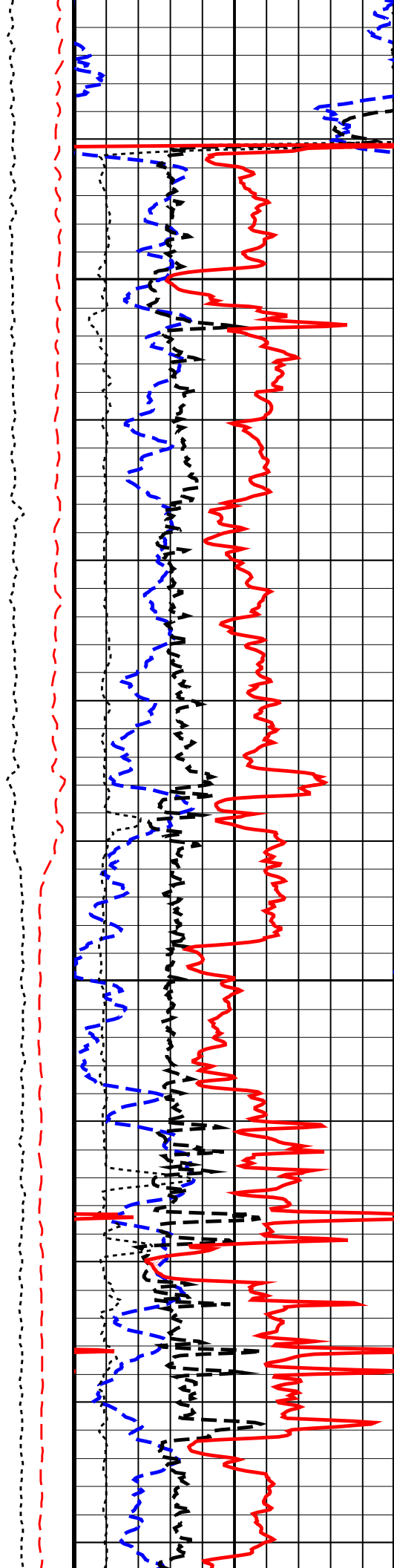
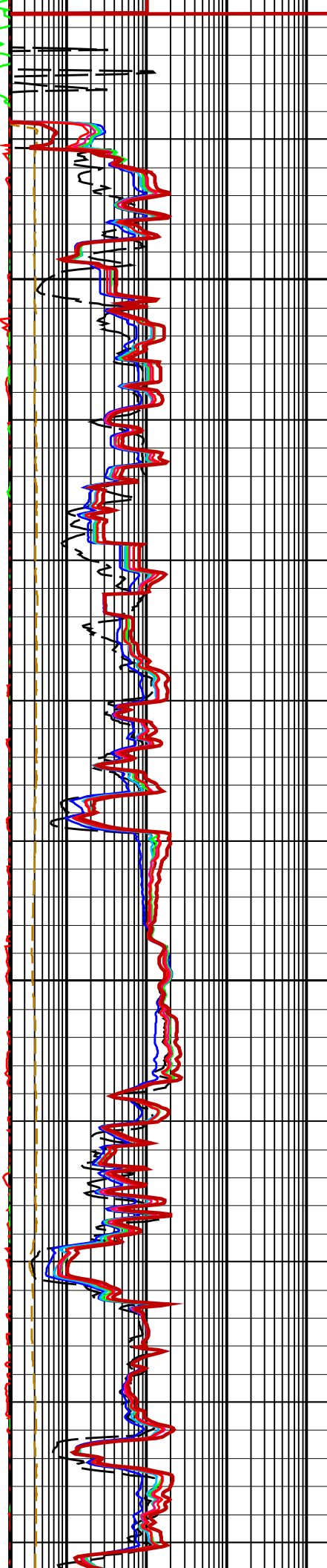
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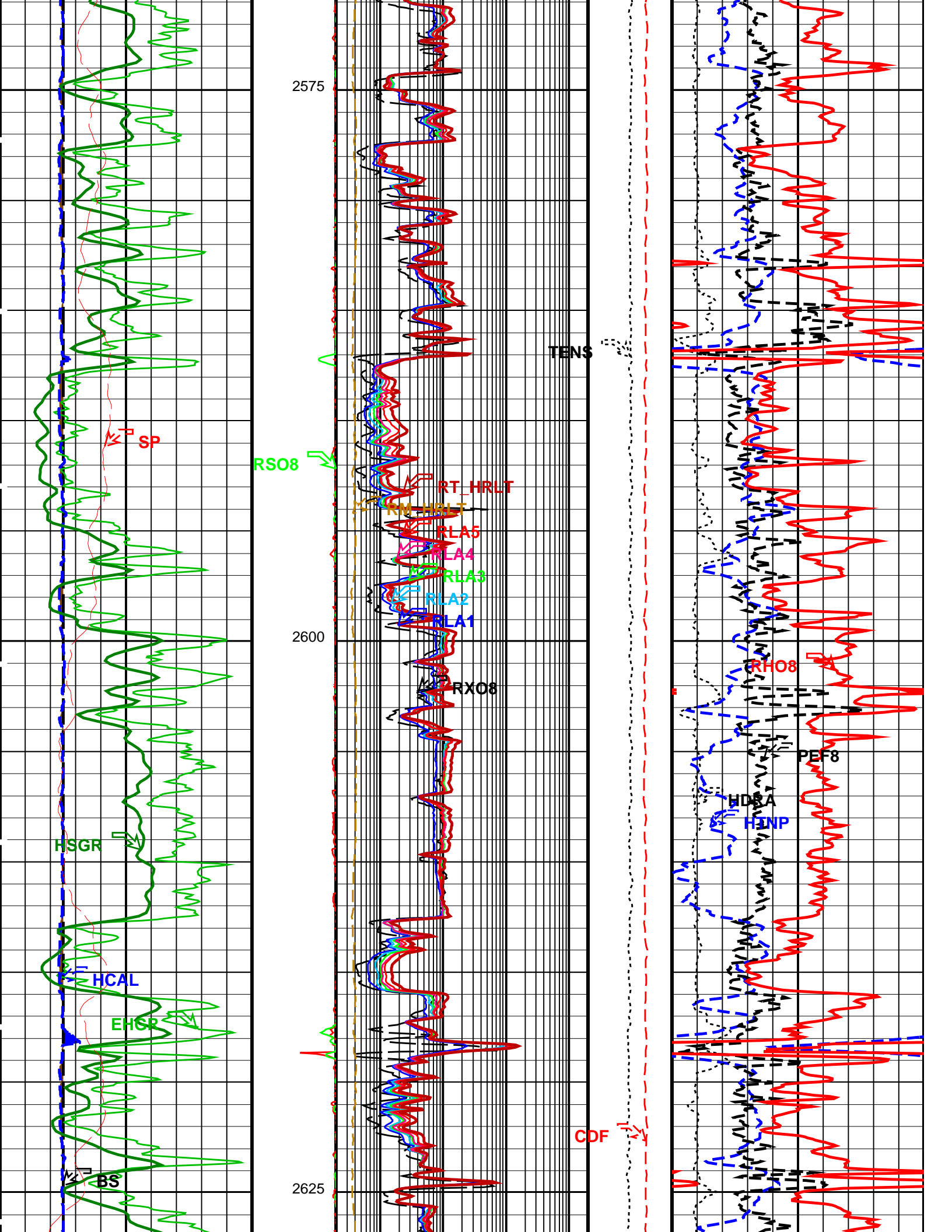


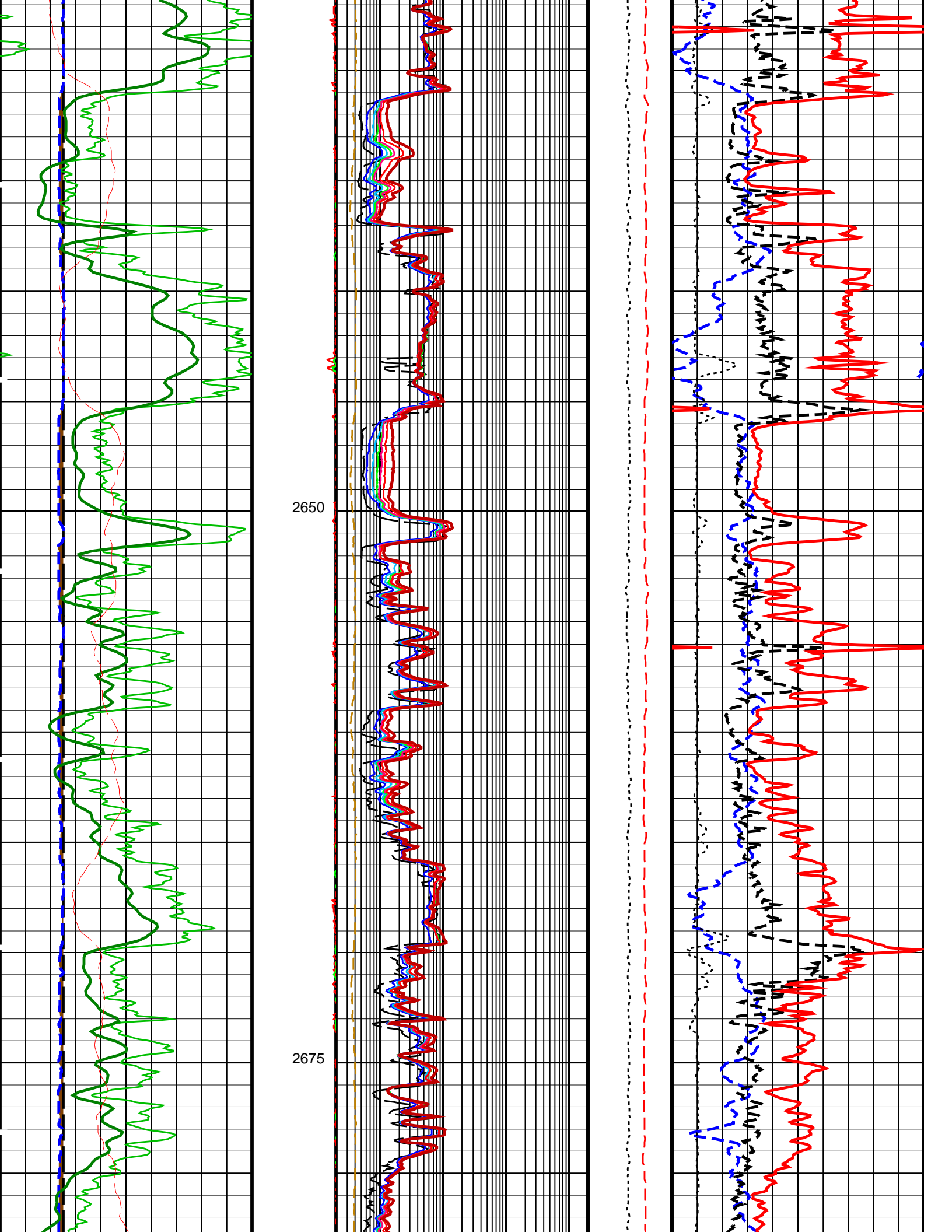


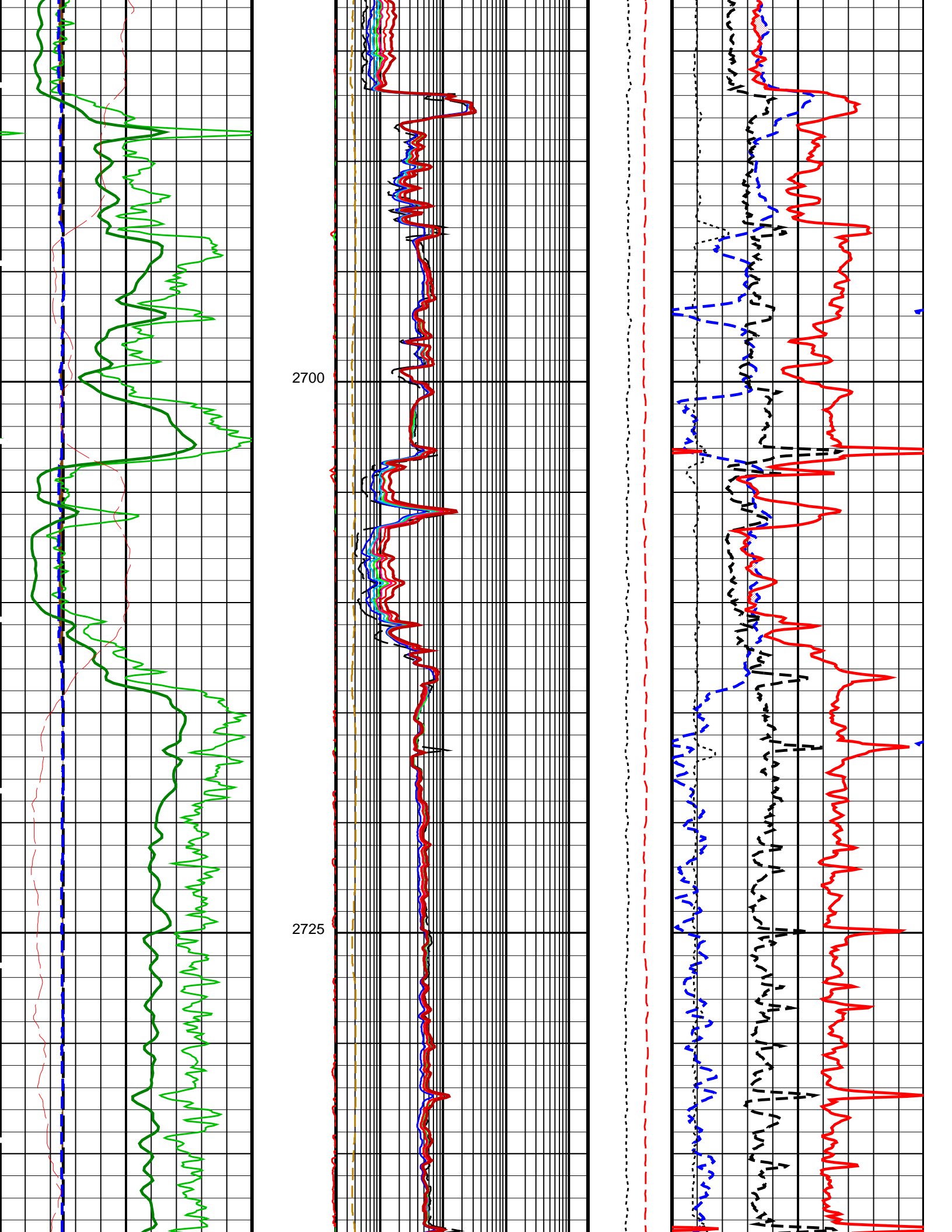
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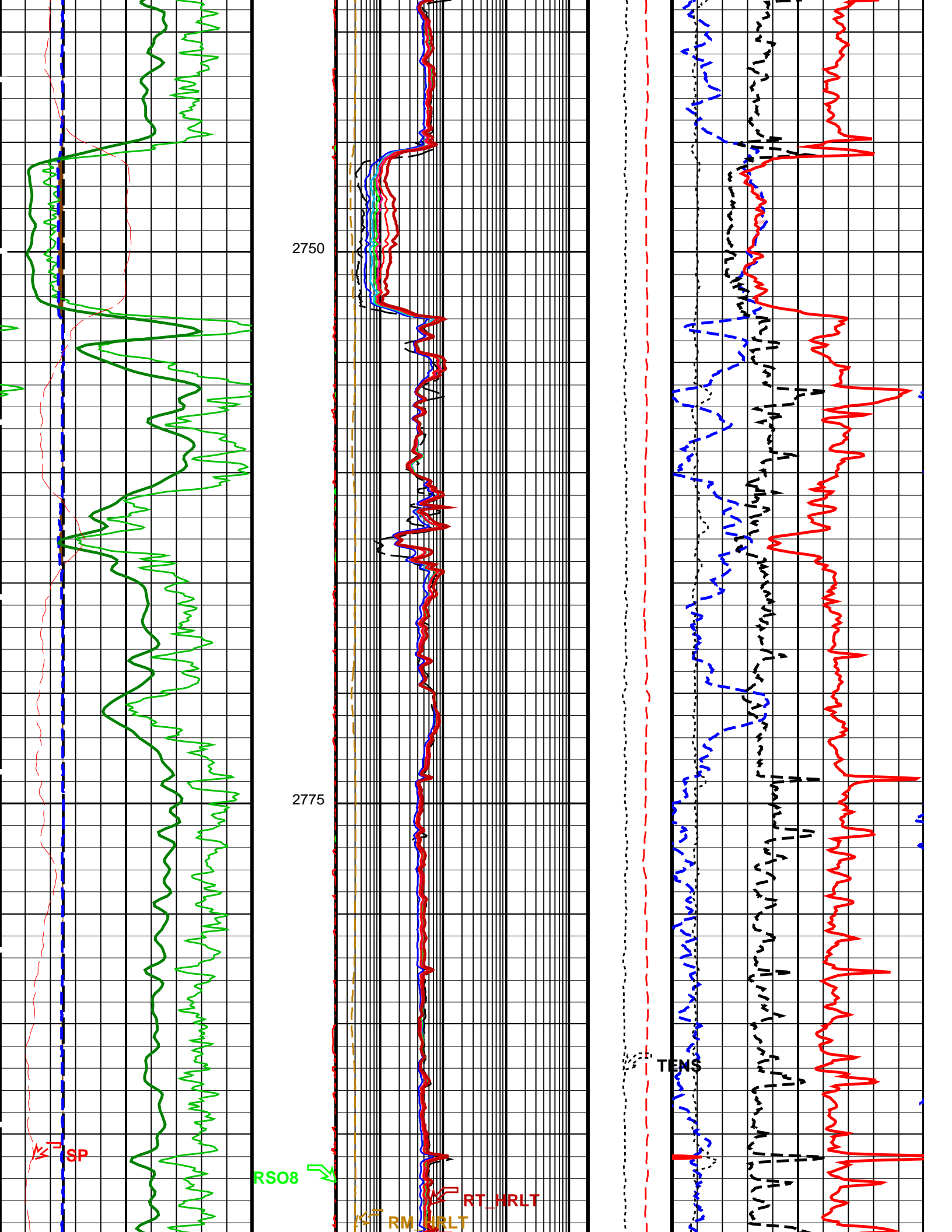
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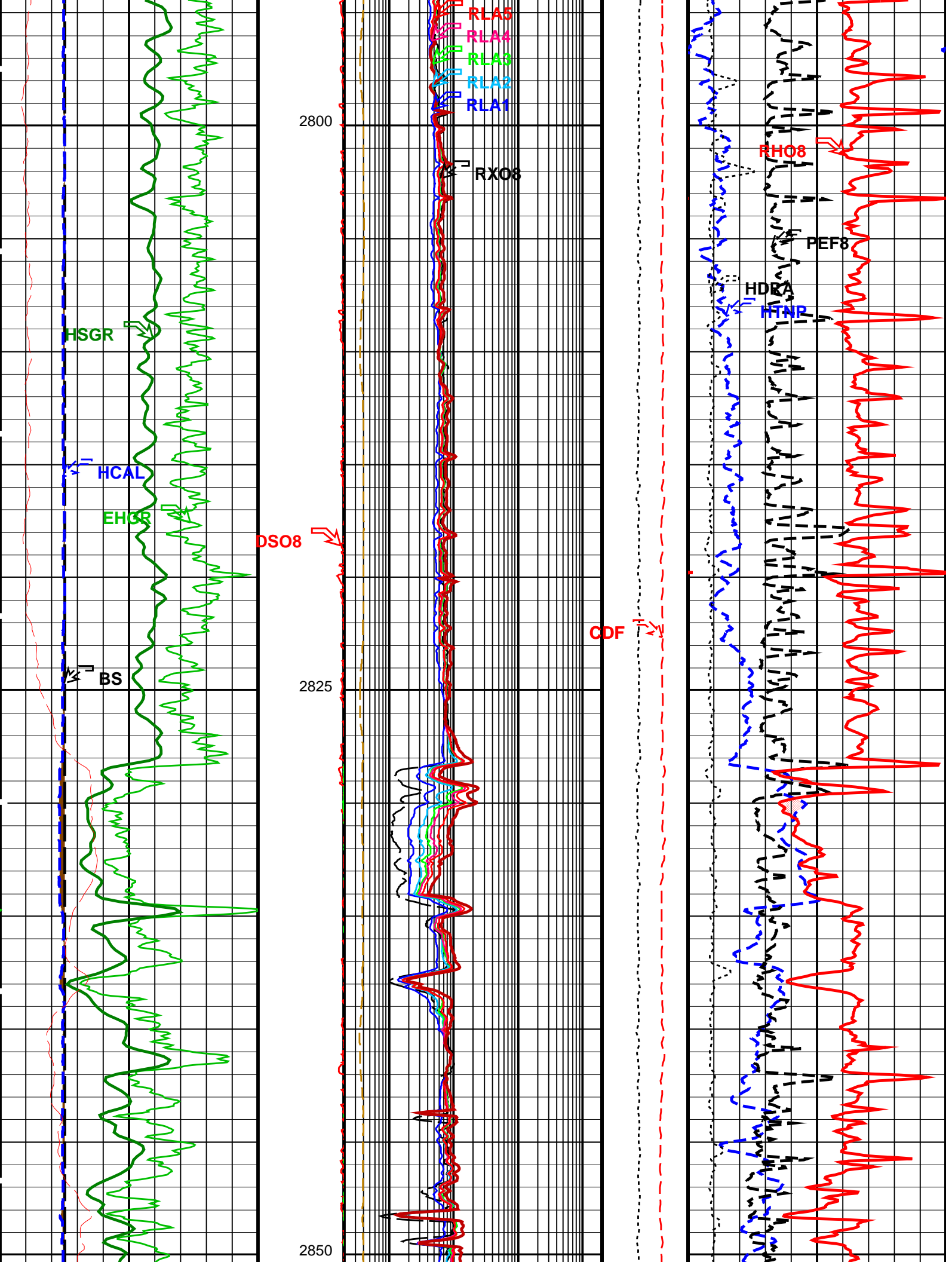




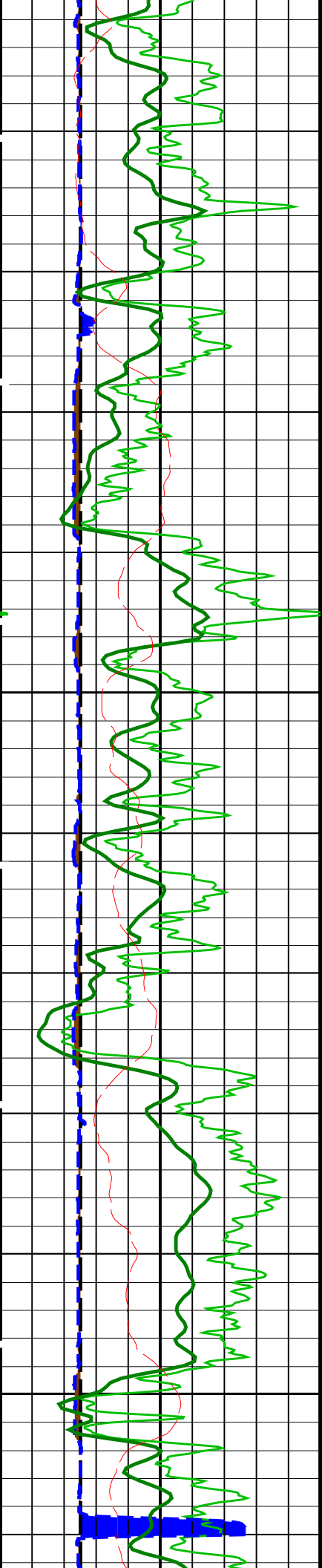






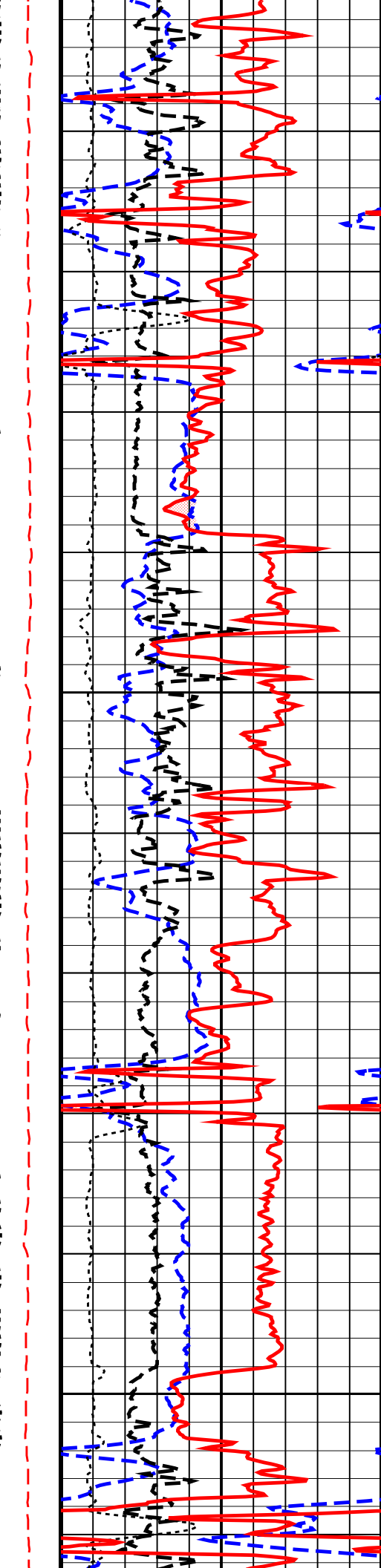
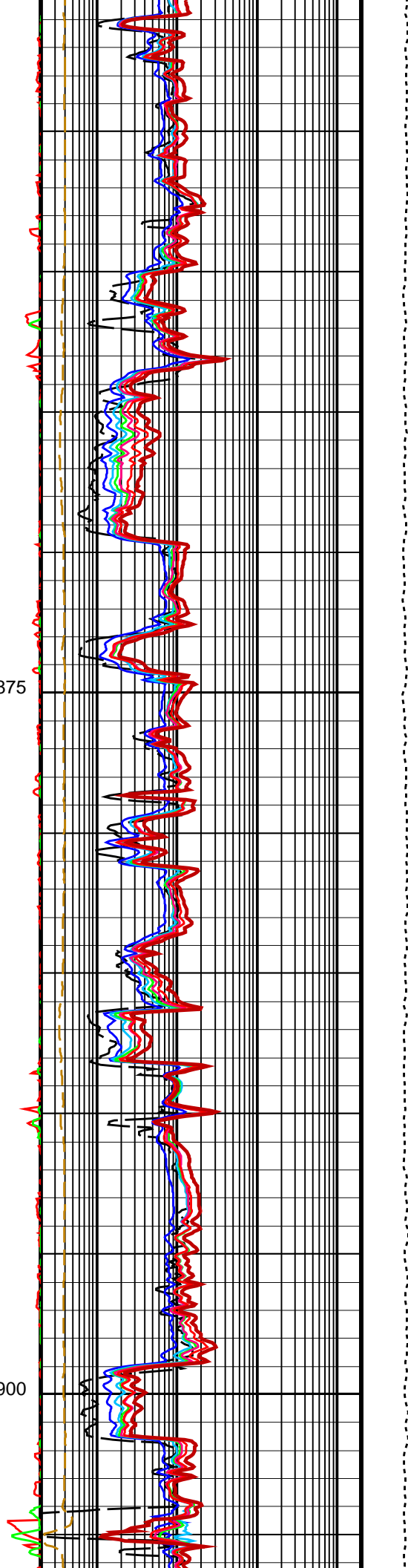


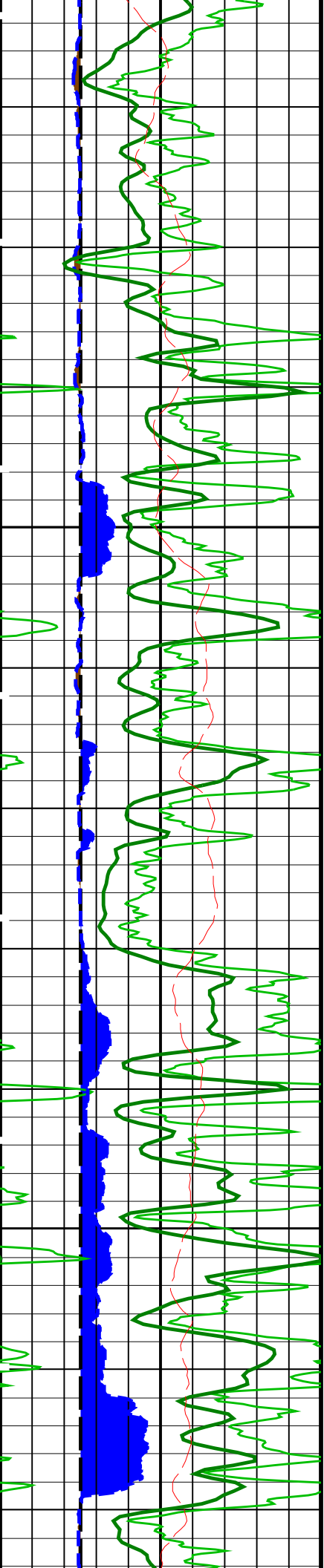




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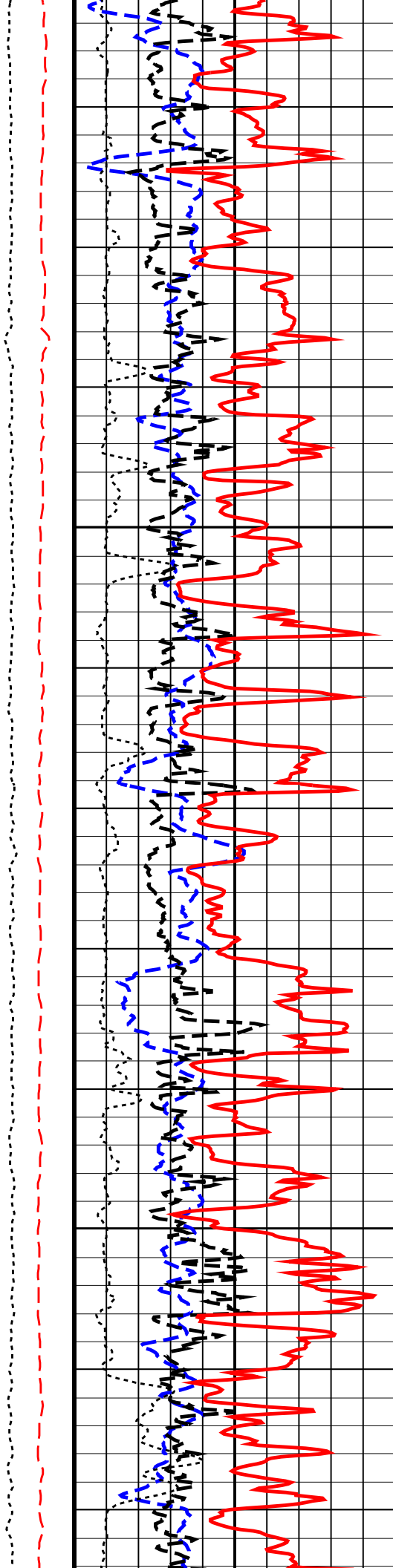
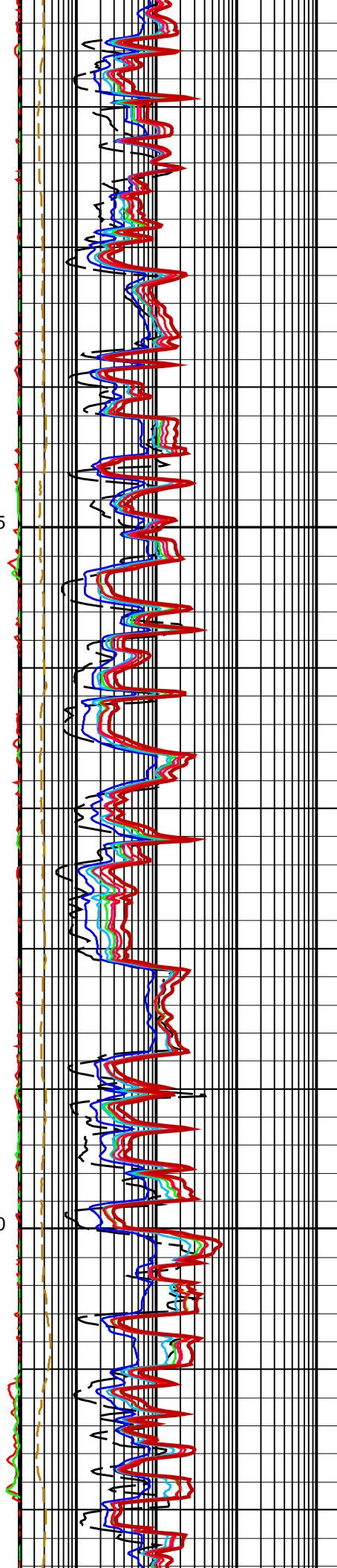
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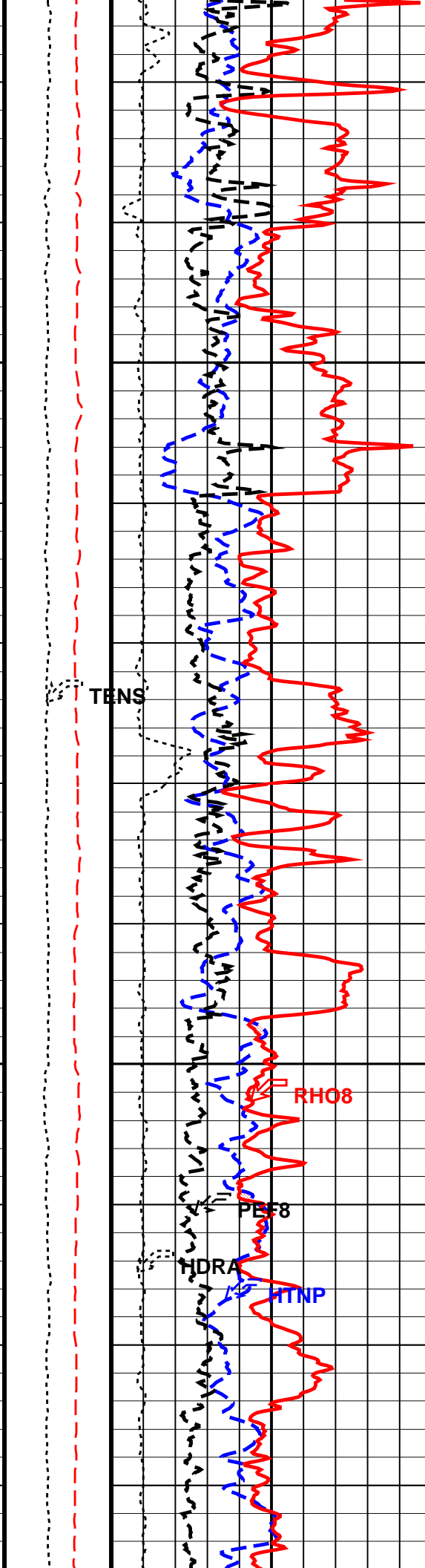
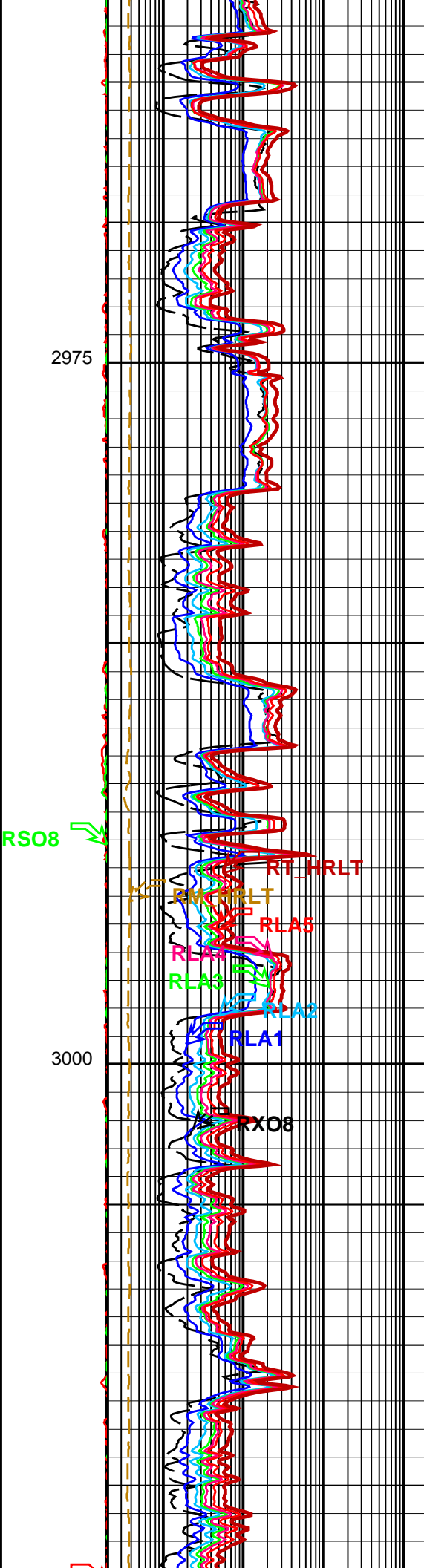
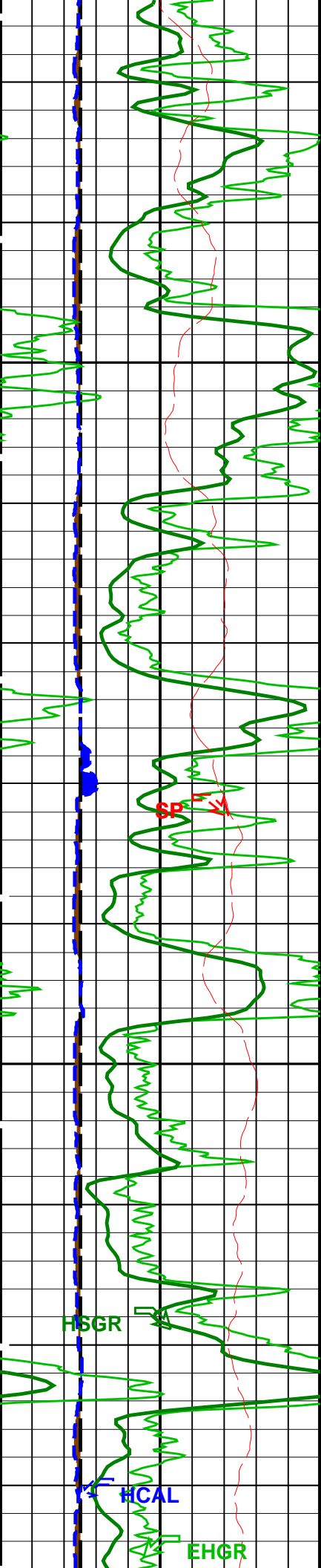


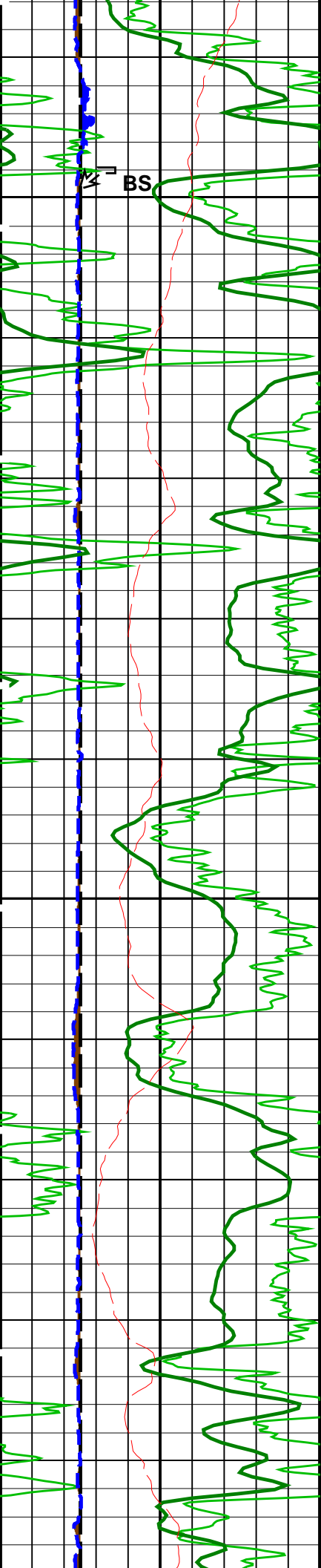


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2950



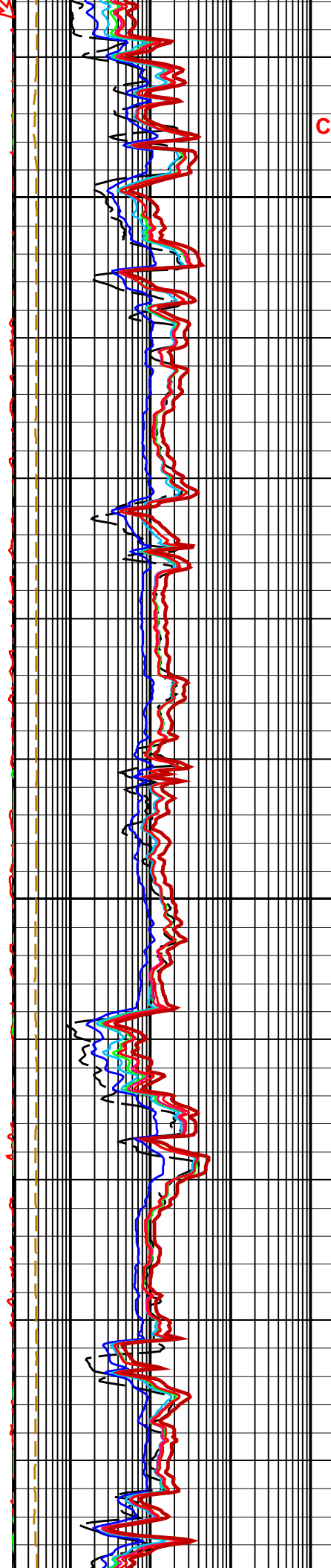




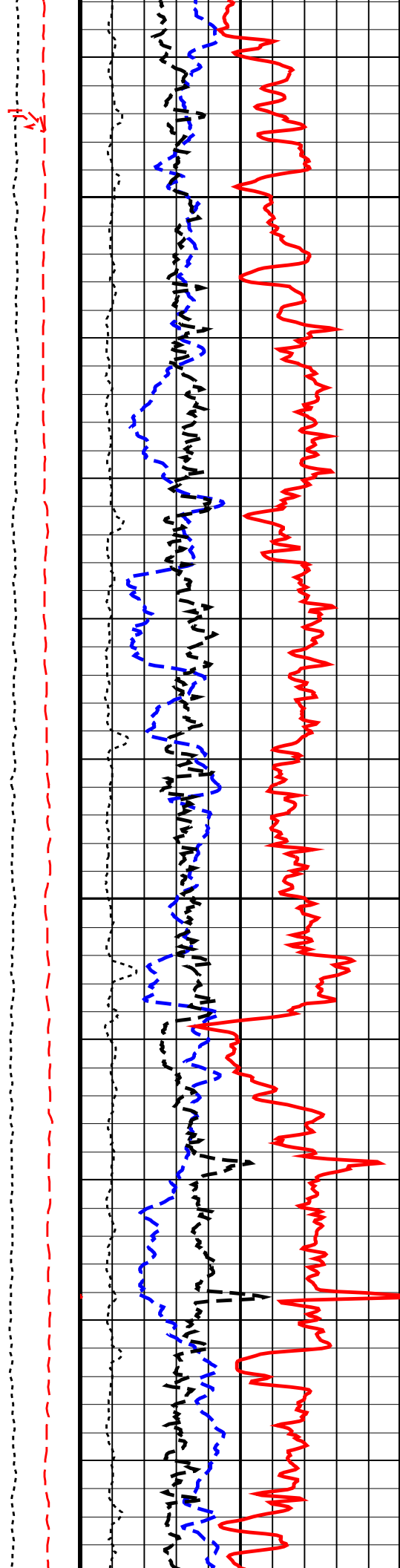
DS08

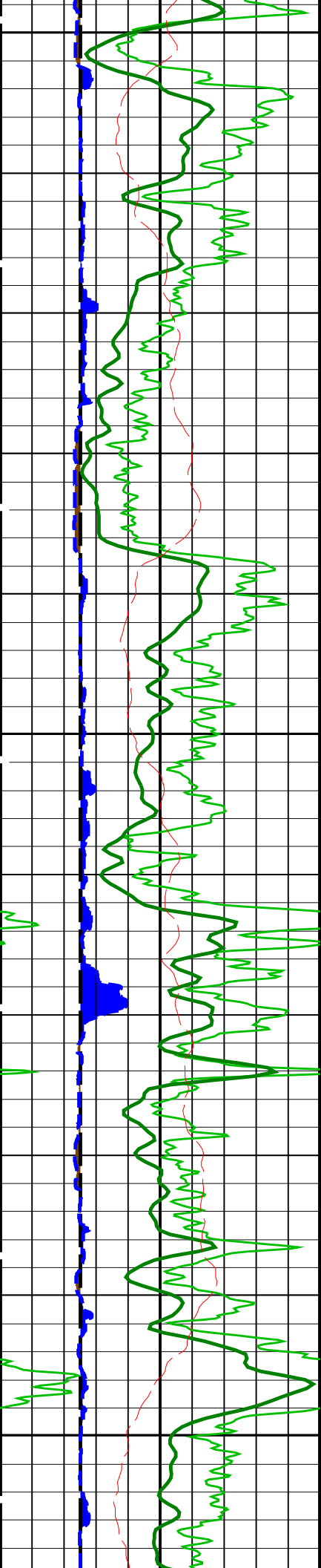
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3050



CDF

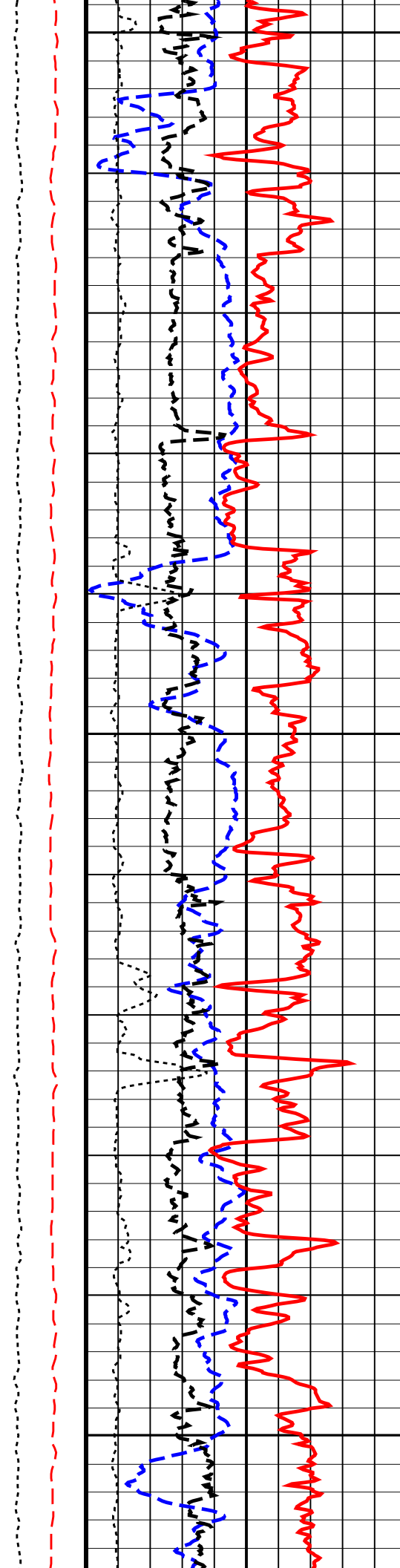
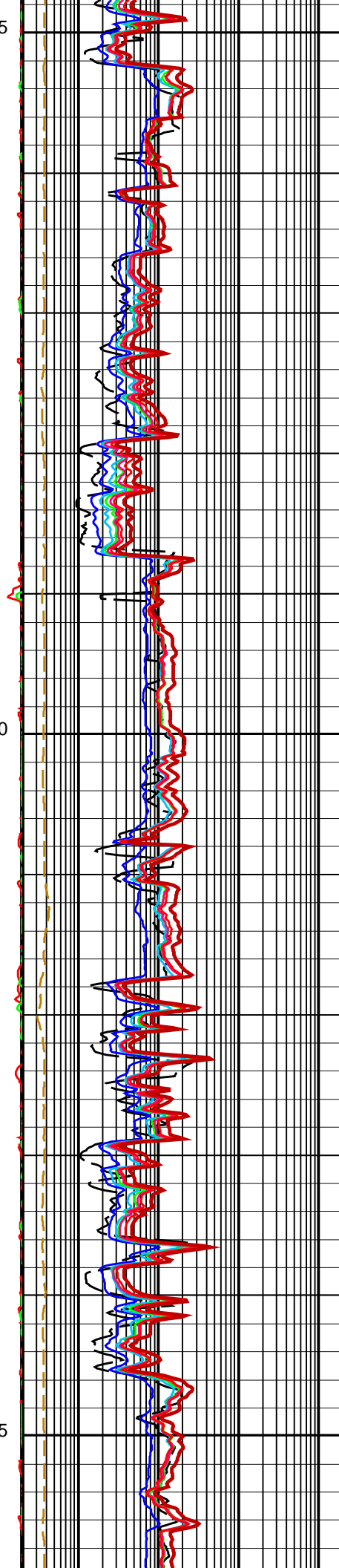


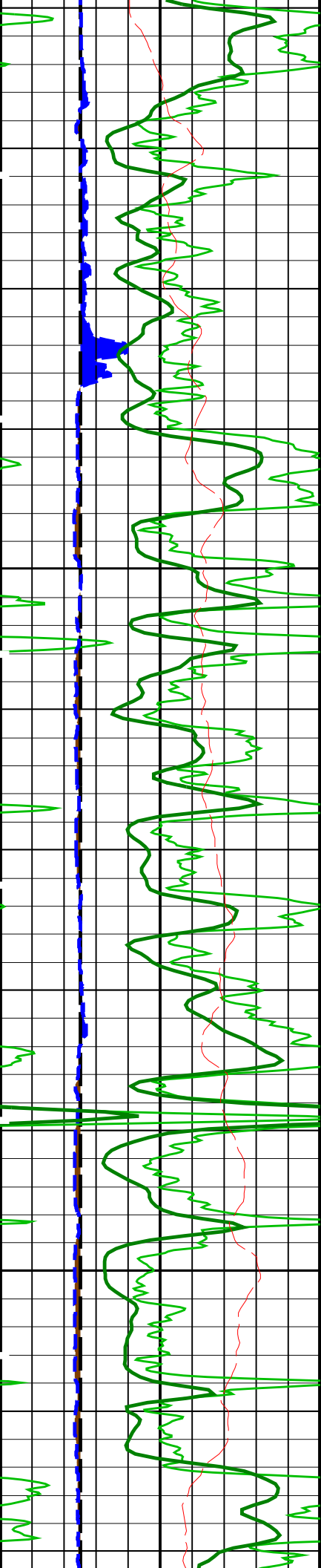


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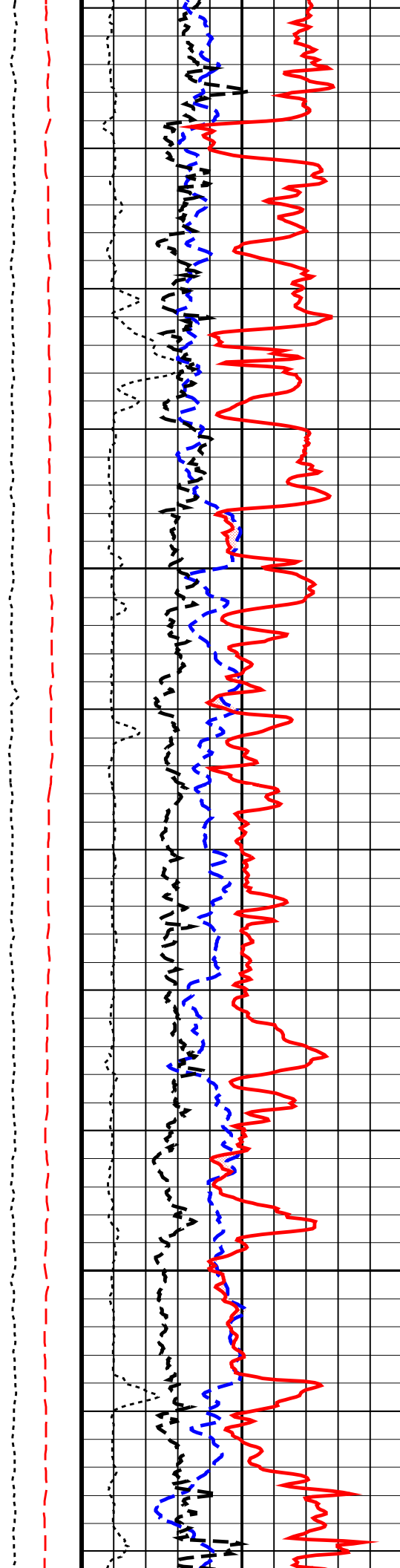
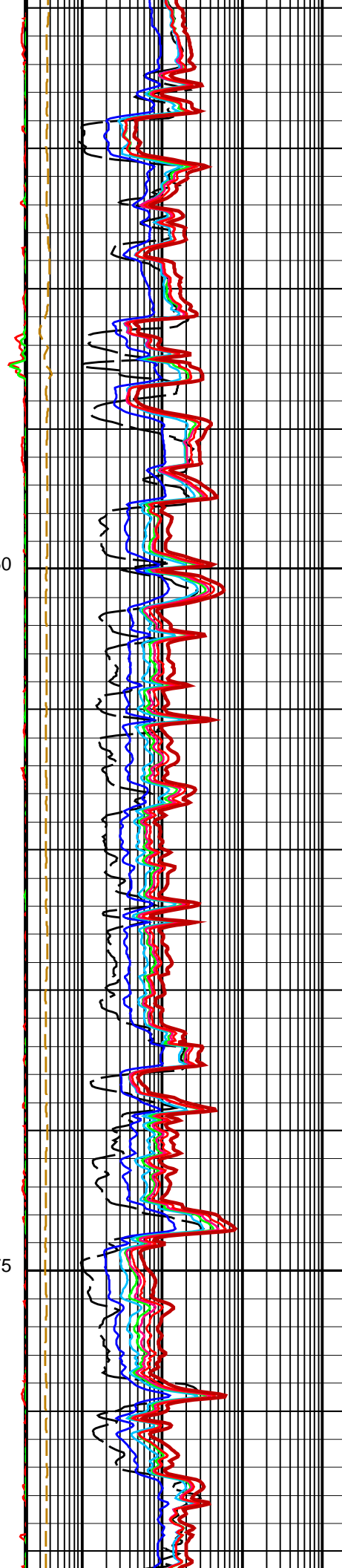
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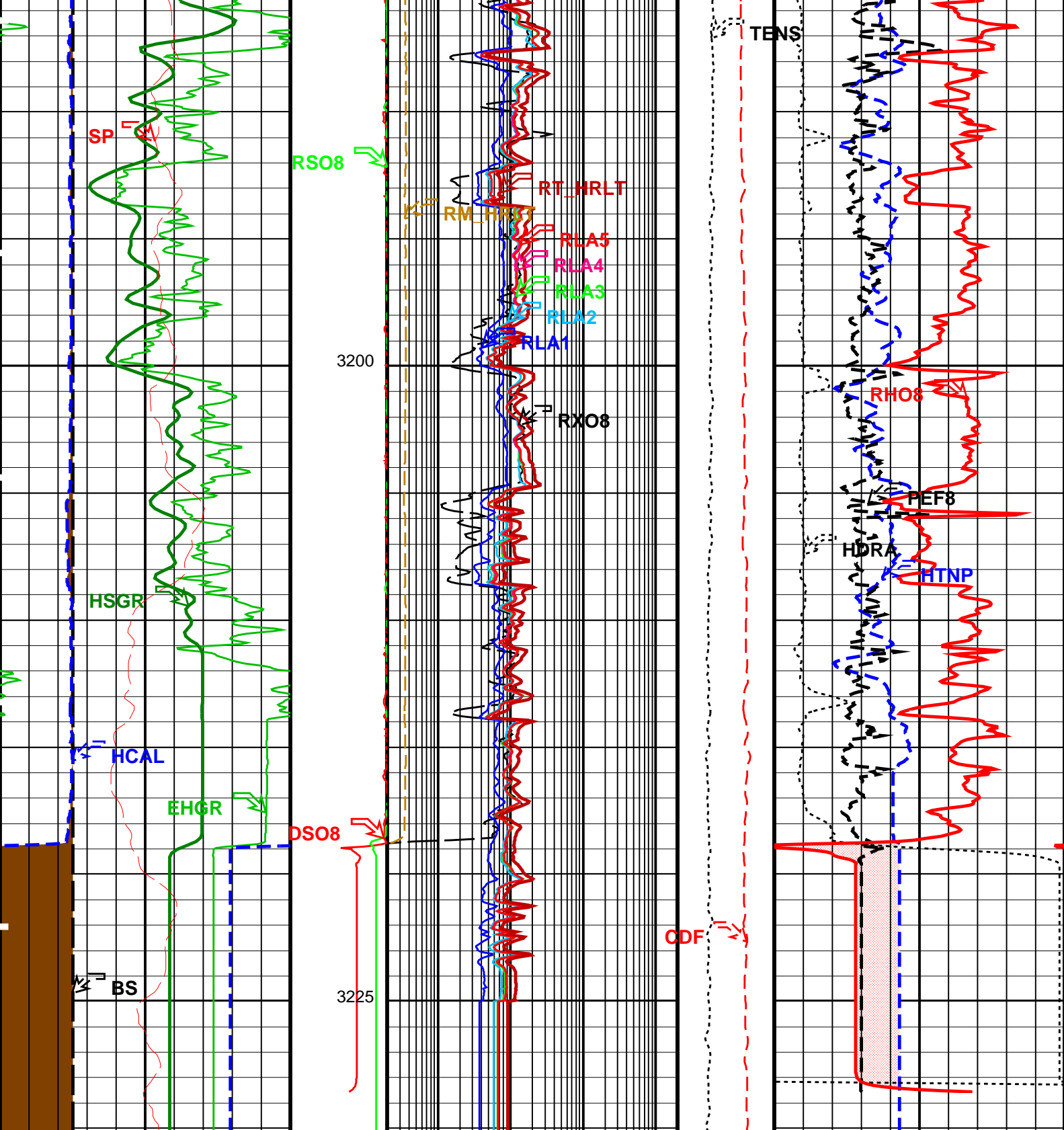


3150

3175







<div><div>SP (SP)</div><div>(MV)</div><div>-5050</div></div>	<div><div>H. Res. Density Standoff</div><div>(DSO8)</div><div>2.5 (IN)0</div></div>	<div><div>H. Res. Invaded Zone Resistivity</div><div>(RXO8)</div><div>(OHMM)</div><div>0.22000</div></div>	<div><div>Calibrated Downhole Force</div><div>(CDF)</div><div>(LBF)</div><div>02000</div></div>	<div><div>HiRes TNPH (HTNP)</div><div>(V/V)</div><div>0.45-0.15</div></div>
<div><div>Gamma Ray (EHGR)</div><div>(GAPI)</div><div>0200</div></div>	<div><div>H. Res. Resistivity Standoff</div><div>(RSO8)</div><div>2.5 (IN)0</div></div>	<div><div>HRLT Resistivity 1 (RLA1)</div><div>(OHMM)</div><div>0.22000</div></div>	<div><div>Tension</div><div>(TENS)</div><div>(LBF)</div><div>70002000</div></div>	<div><div>Density Correction (HDRA)</div><div>(G/C3)</div><div>-0.050.45</div></div>
<div><div>Bit Size (BS)</div><div>(IN)</div><div>616</div></div>		<div><div>HRLT Resistivity 2 (RLA2)</div><div>(OHMM)</div><div>0.22000</div></div>		<div><div>H. Res. Formation Pe (PEF8)</div><div>(G/C3)</div><div>010</div></div>



<div> <div> HILT Caliper (HCAL) (IN) </div> <div> Undergauge From HCAL to BS </div> <div> Washout From BS to HCAL </div> <div> HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) </div> </div>	<div> <div> HRLT Resistivity 3 (RLA3) (OHMM) </div> <div> HRLT Resistivity 4 (RLA4) (OHMM) </div> <div> HRLT Resistivity 5 (RLA5) (OHMM) </div> <div> HRLT Mud Resistivity (RM_HRLT) (OHMM) </div> <div> HRLT True Resistivity (RT_HRLT) (OHMM) </div> </div>	<div> <div> H. Res. Formation Density (RHO8) (G/C3) </div> <div> Crossover From RHO8 to HTNP </div> </div>

PIP SUMMARY		
Time Mark Every 60 S		

Parameters			
DLIS Name	Description	Value	
SPA-A: SP ADAPTOR			
SPNV	SP Next Value	0	MV
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	110	DEGC
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	1.4	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
KFAC_HRLT	HRLT K Factor Option	SONDE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	1.5	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSP0	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	20	DEGC
HILTH-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)	110	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
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	1.4	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	YES	
MCOR	Mud Correction	NATU	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	YES	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	0.994163	
BAR2	HNGS Detector 2 Barite Constant	0.99047	
BHK	HNGS Borehole Potassium Correction Concentration	0.0341881	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	110	DEGC

CSD1	Bottom Hole Temperature (used in calculations)	110	DEGC
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	USER	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	1.4	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.0341881	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	USER	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.994163	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.99047	
CMRT-B: Combinable Magnetic Resonance Tool - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	110	DEGC
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	1.4	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	110	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	1.4	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	YES	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	YES	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
STI: Stuck Tool Indicator			
TDL	Total Depth - Logger	3235.00	M
System and Miscellaneous			
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	75000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	1.14	G/C3
DO	Depth Offset for Playback	3.0	M
MST	Mud Sample Temperature	23.60	DEGC
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.0905	OHMM
TD	Total Depth	3235	M

Format: Origin\_Trefoil2\_PEX\_Composite\_HiRes      Vertical Scale: 1:200      Graphics File Created: 19-Nov-2009 01:28

## OP System Version: 17C0-154

SPA-A	17C0-154	HRLT-B	17C0-154
HILTH-FTB	17C0-154	HNGC-B	17C0-154
HNGS-BA	SPC-3867-NUCL	CMRT-B	SPC-3874-CMR
EDTC-B	SKK-3882-EDTCB		

## Input DLIS Files

DEFAULT	HRLA_TLD_MCFL_CNL_069LUP	FN:71	PRODUCER	18-Nov-2009 23:38	3227.8 M	2473.6 M
Output DLIS Files						
DEFAULT	HRLA_TLD_MCFL_CNL_071PUP	FN:75	PRODUCER	19-Nov-2009 01:28		
RTBUP	HRLA_TLD_MCFL_CNL_071PUP	FN:76	PRODUCER	19-Nov-2009 01:28		