



ENDEAVOUR GEOPHYSICS

## HARD ROCK COAL

VR013

## FORMATION DENSITY LOG

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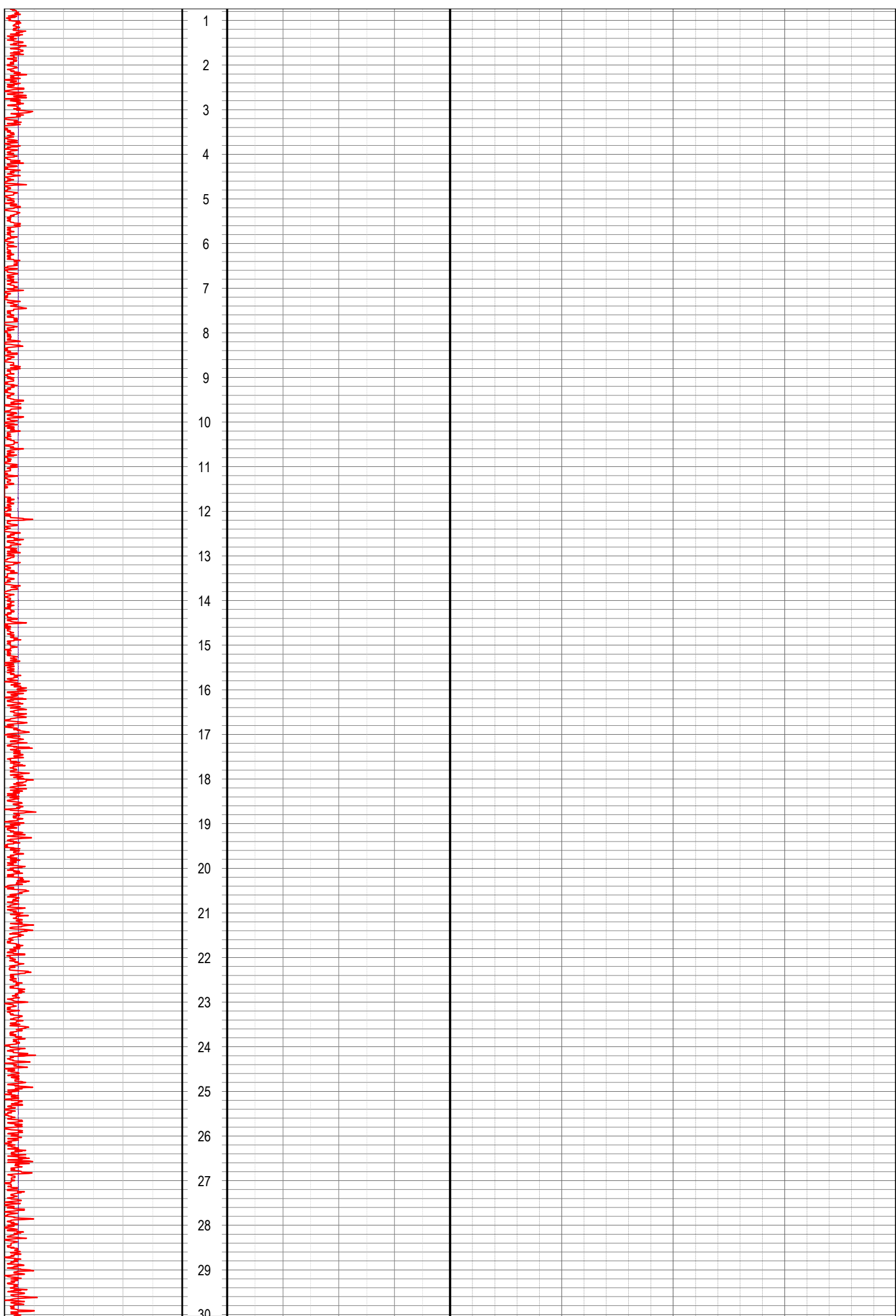
LOCATION		HOLE ATTRIBUTES				LOGGING DETAILS			
LOCATION	FINGAL	DATE	1/03/2017			RECORDED BY	CALEB AMES		
EL		FLUID LEVEL	101 m			WITNESSED BY	RON GREGORY		
PROVINCE		FLUID TYPE	WATER			UNIT	EG025		
STATE	TASMANIA	DRILLED DEPTH	525.4 m			LOGGED DEPTH	525 m		
COUNTRY	AUSTRALIA	DATUM	GROUND LEVEL			INT LOGGED	0-525 m		
LATI		DRILLING COMPANY	SPAULDING DRILLERS			LOGGING RUNS			
LONG		DRILLING RIG	8						
GEODETIC DATUM	GDA94	BOREHOLE RECORD				FDS(ROD)	717	525	0
COORD	MGA55	TYPE	SIZE	FROM m	TO m	FDS(OH)	717	520.5	327
EASTING	590007.0	DIAM	HQ	GL	TD	FWS	S021	520.5	327
NORTHING	5383106					ATV		520.5	327
ELEVATION	741m					MST		520.5	327
SRVC	ENDEAVOUR GEOPHYSICS	CASING RECORD				FDS(OH)	717	336	240
WEB	www.endeavourgeo.com	TYPE	SIZE	FROM m	TO m	FWS	S021	327	245
COMMENTS LOGGED WHILE RODS IN HOLE. OPEN HOLE LOGGED IN TWO SECTIONS TO ENSURE HOLE STAYED OPEN		STEEL	HWT	0	207	MST		334	240
		RODS	HQ	0	239.52	ATV		310	245

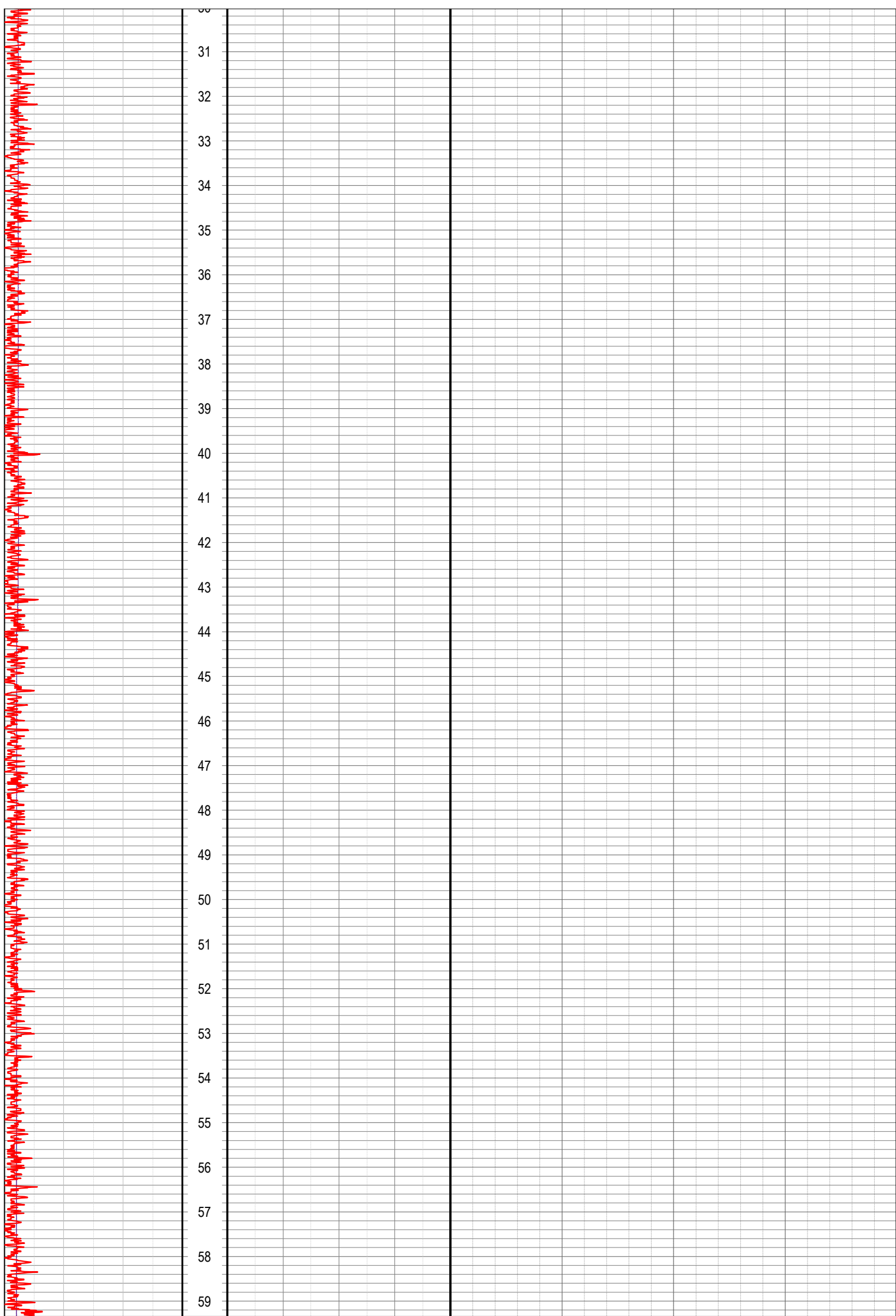
## FORMATION DENSITY - FDS50



CALIBRATION		FDS_MNEUMONICS		ATTRIBUTES	
FDS_CALIBRATION_DATE	01/06/2016	GAMMA_RAW = Uncalibrated natural gamma raw counts LSD_RAW = Long Spaced Density raw counts SSD_RAW = Short Spaced Density raw counts BRD_RAW = Bed Resolution Density raw counts CALI_RAW = Caliper raw counts  GRDEN = Calibrated Gamma - API Units LSD = Calibrated Long Spaced Density - g/cc SSD = Calibrated Short Spaced Density - g/cc BRD = Calibrated Bed Resolution Density - g/cc CALI = Calibrated Caliper - in mm RHOB = Bulk Density DPOR = Porosity from Density		FDS_LENGTH	3080mm
FDS_MODEL	ALT FDS-50			FDS_DIAMETER	50mm
FDS_SERIAL_NO	717			FDS_CALIPER_RANGE	50-300mm
FDS_SOURCE_NO	3500CO			FDS_LOGGING_SPEEDS	6m/min General 3m/min Detailed
FDS_SOURCE_TYPE	3.7GBq 137Cs			FDS_RECEIVER_SPACING	48cm - LSD 24cm - SSD 14cm - BRD 63cm - Caliper
LSD_CAL	-0.5189*Ln({RAW})+5.6806				
SSD_CAL	-1.5417*Ln({RAW})+16.8700				
BRD_CAL	-8.6410*Ln({RAW})+98.9852				
FDS_GAMMA_CAL	0.6948{RAW}				
FDS_CALIPER_CAL	0.0219*{RAW}+8.85				
FDS_CAL_LOCATION	ADELAIDE PIT FACILITY-108mm				

CALI CALIPER			Depth 1:100	DRHOB Differential Density			LSD Long Spaced Density		
60	mm	260		-0.4	G/CC	0.4	1	G/CC	3
GRDEN Natural Gamma				RHOB Bulk Density			SSD Short Spaced Density		
0	API	300		1	G/CC	3	1	G/CC	3
				DPOR-sand POROSITY (SANDSTONE MODEL)					
				0	%	100			
			0						





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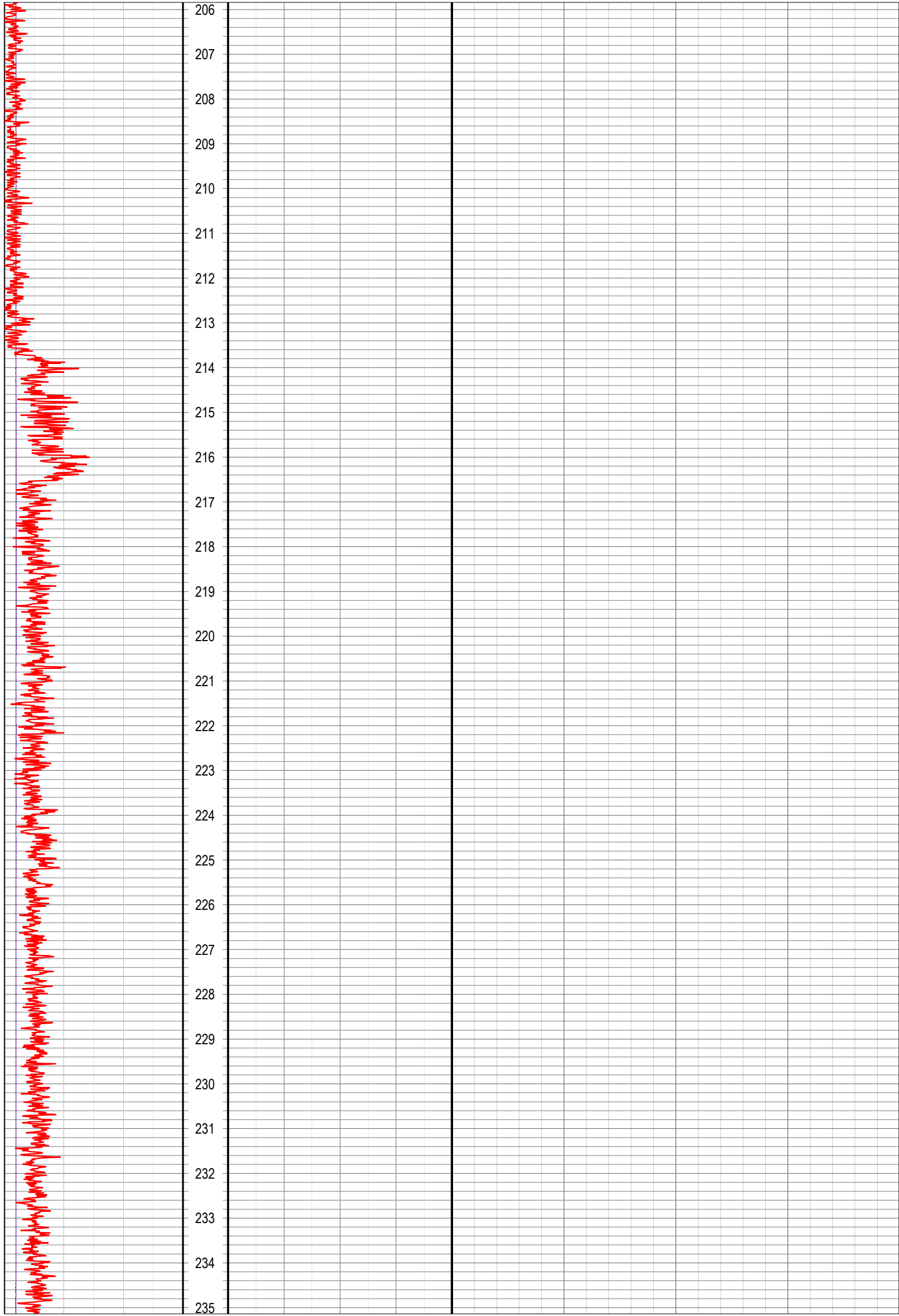
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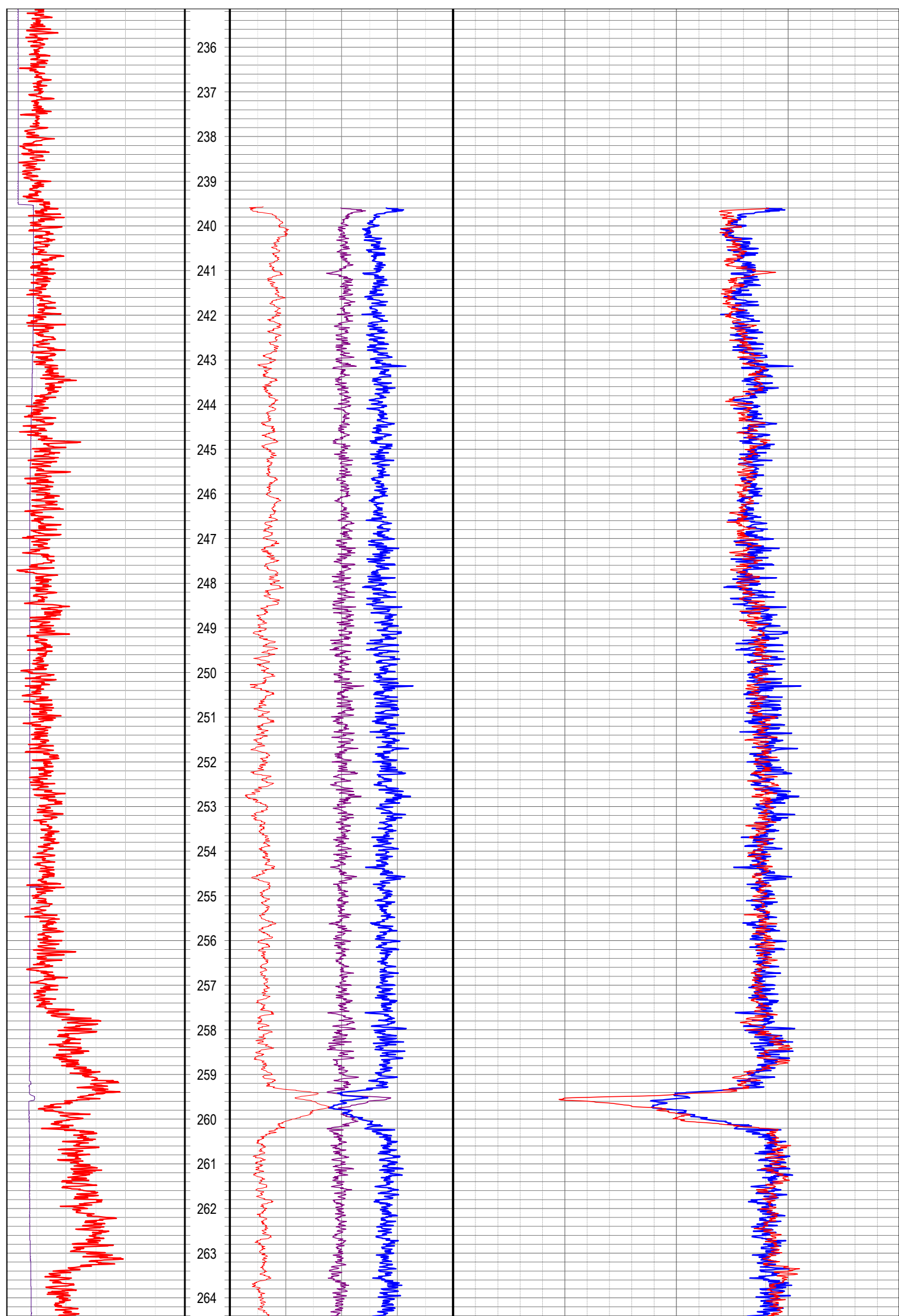
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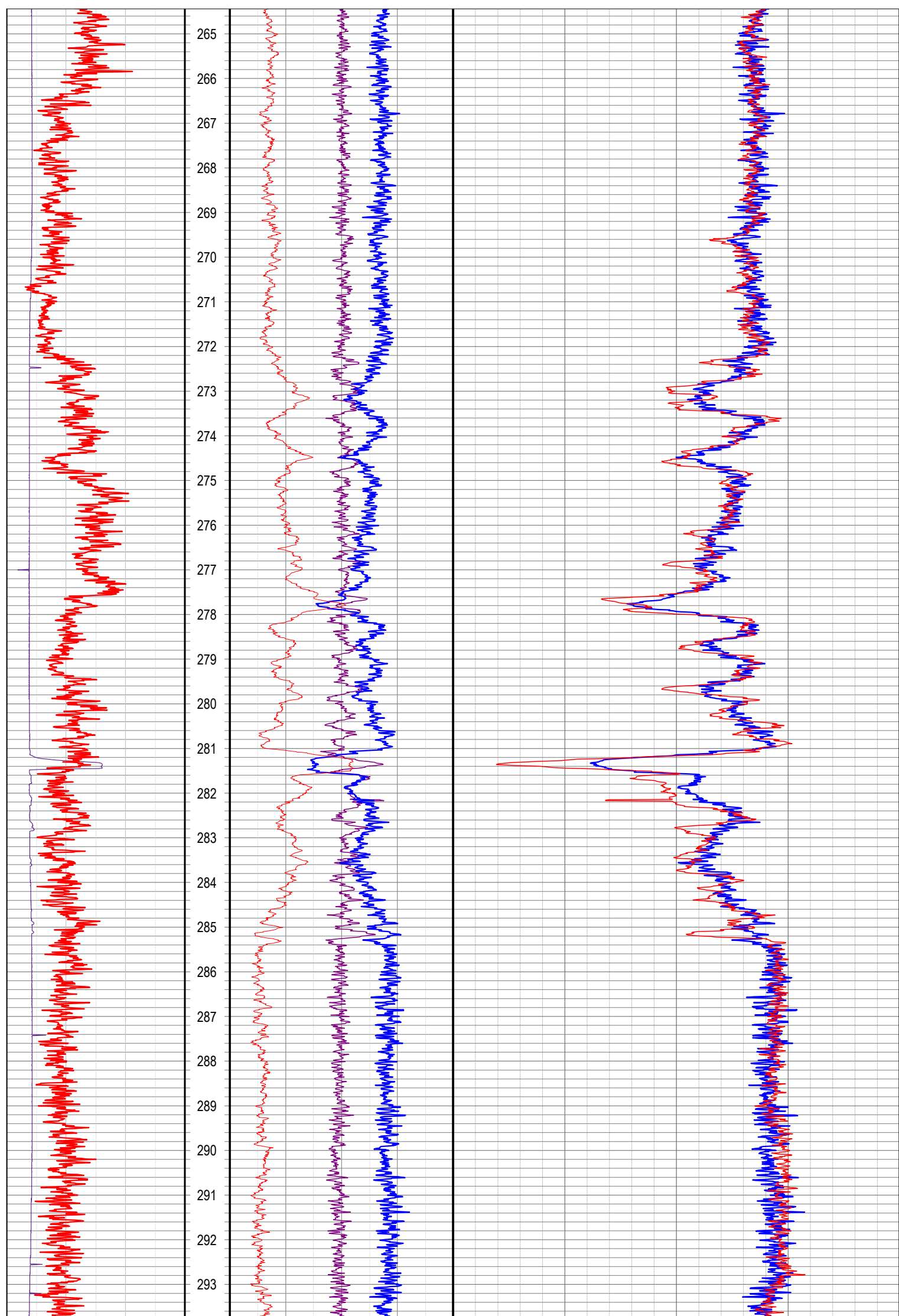
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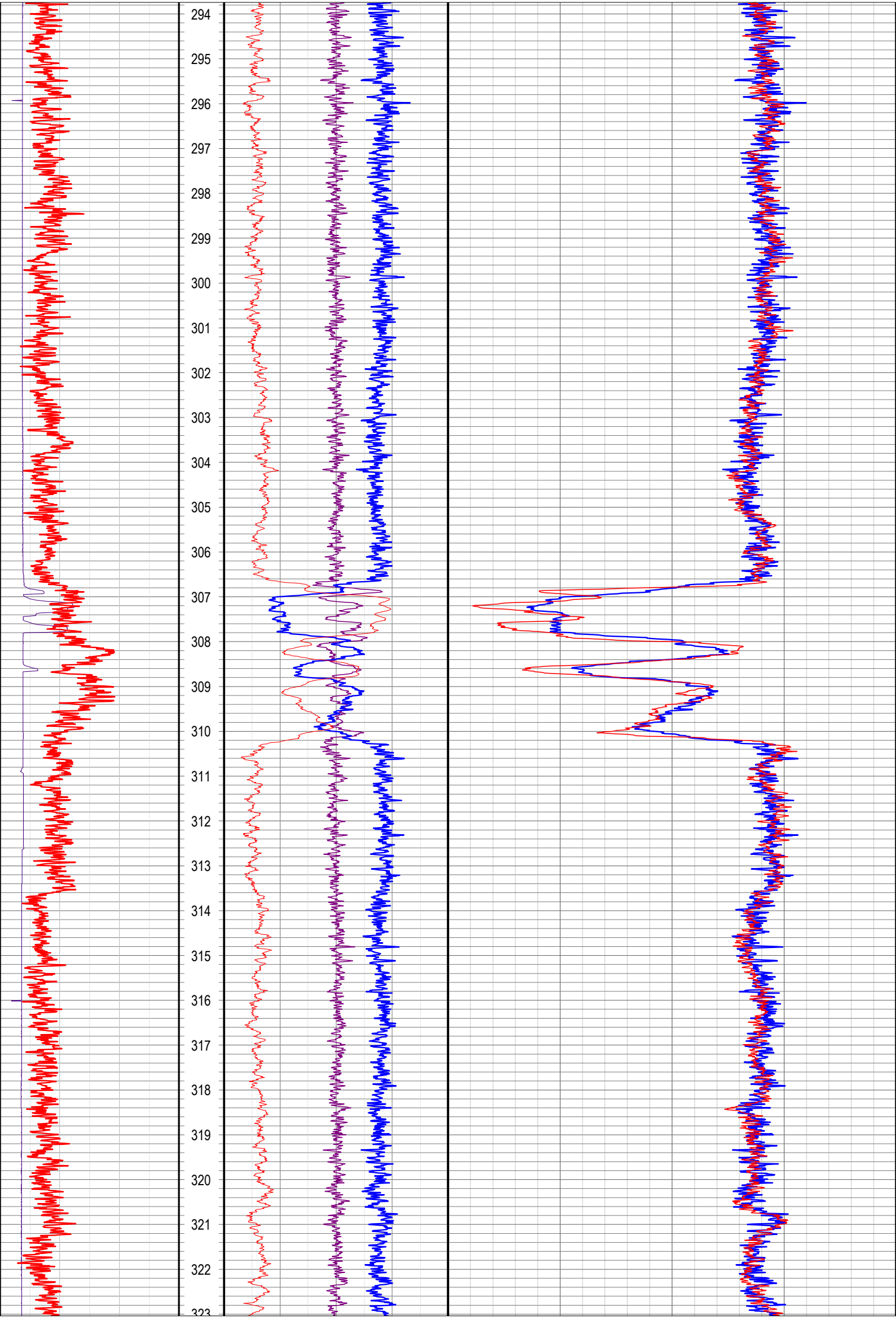
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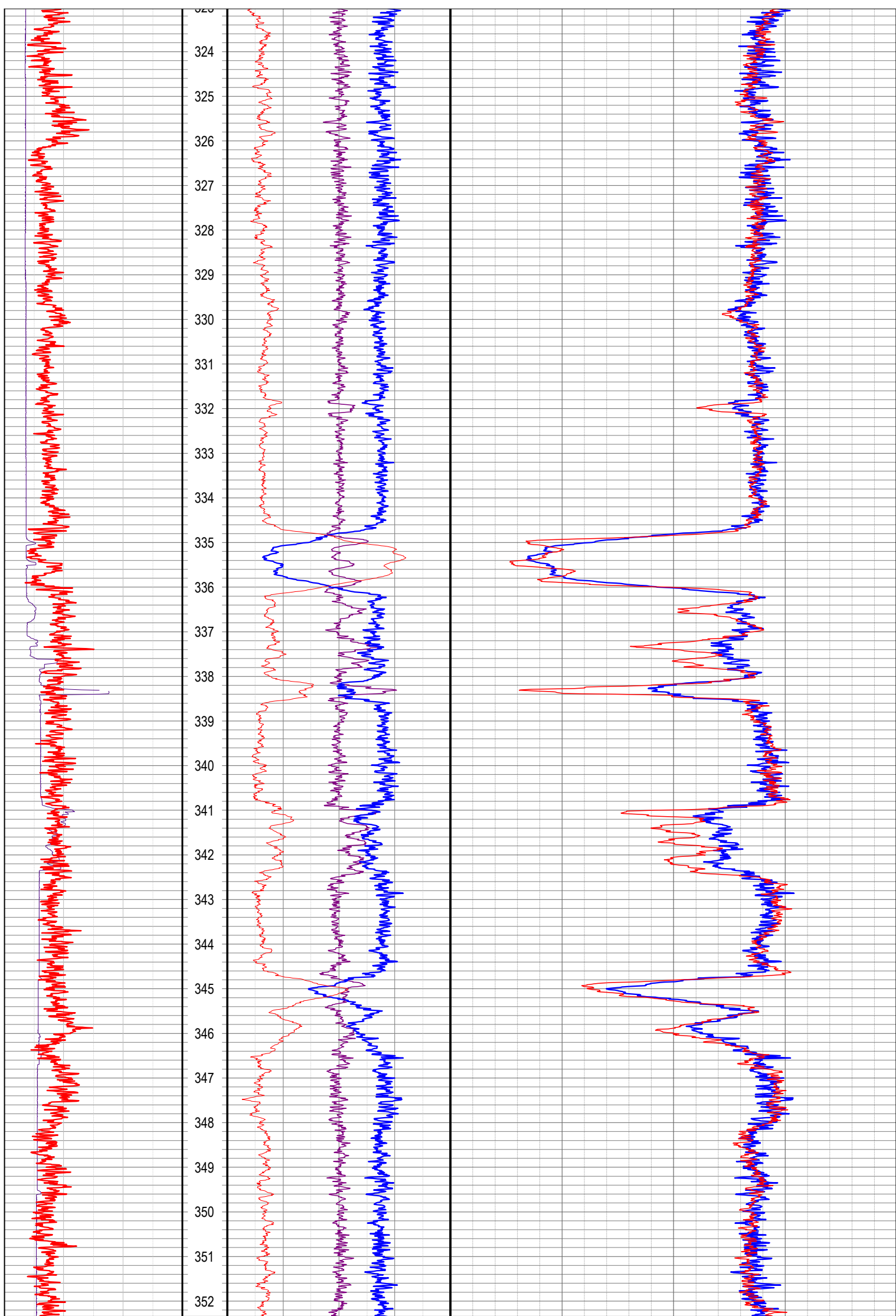




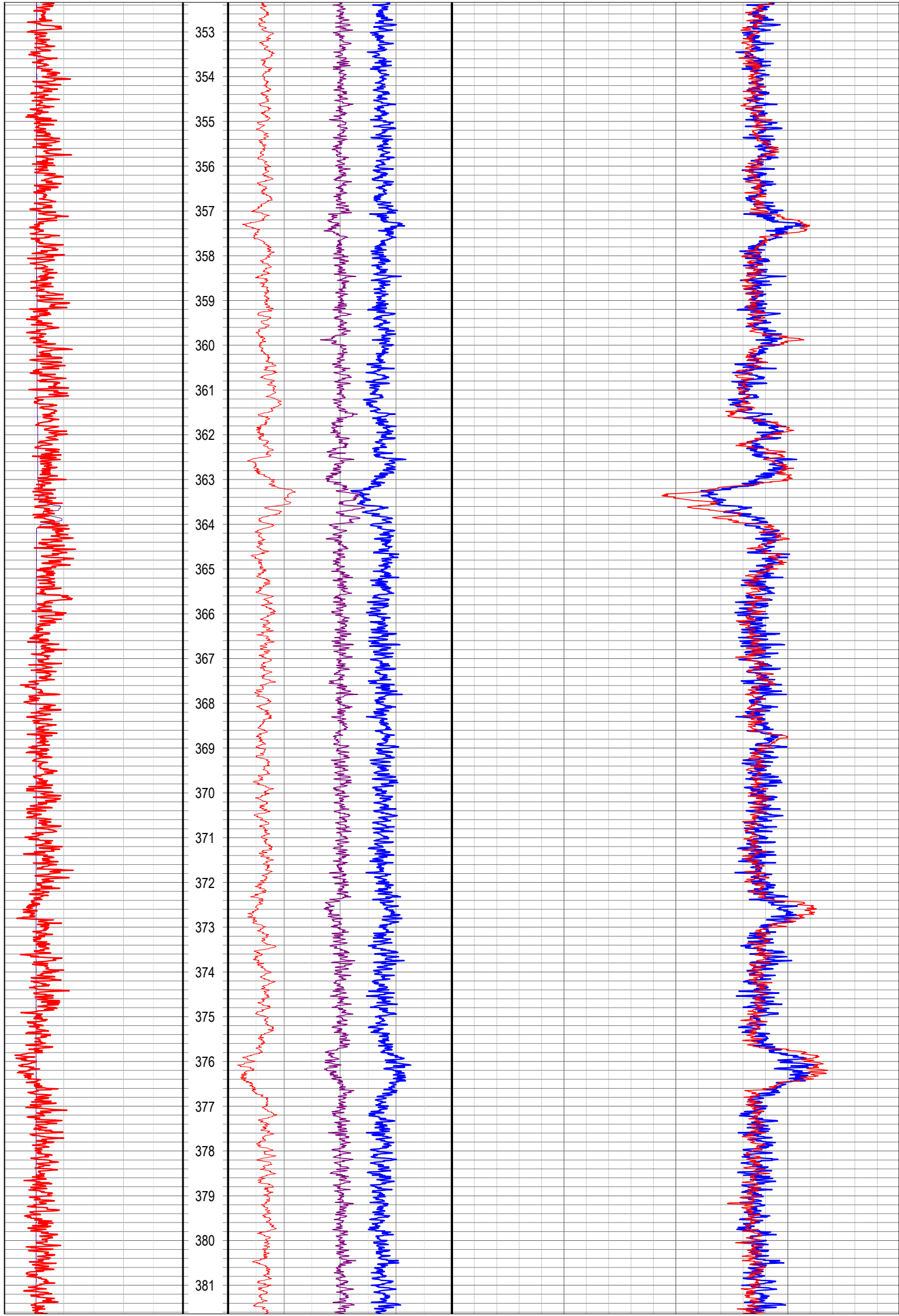


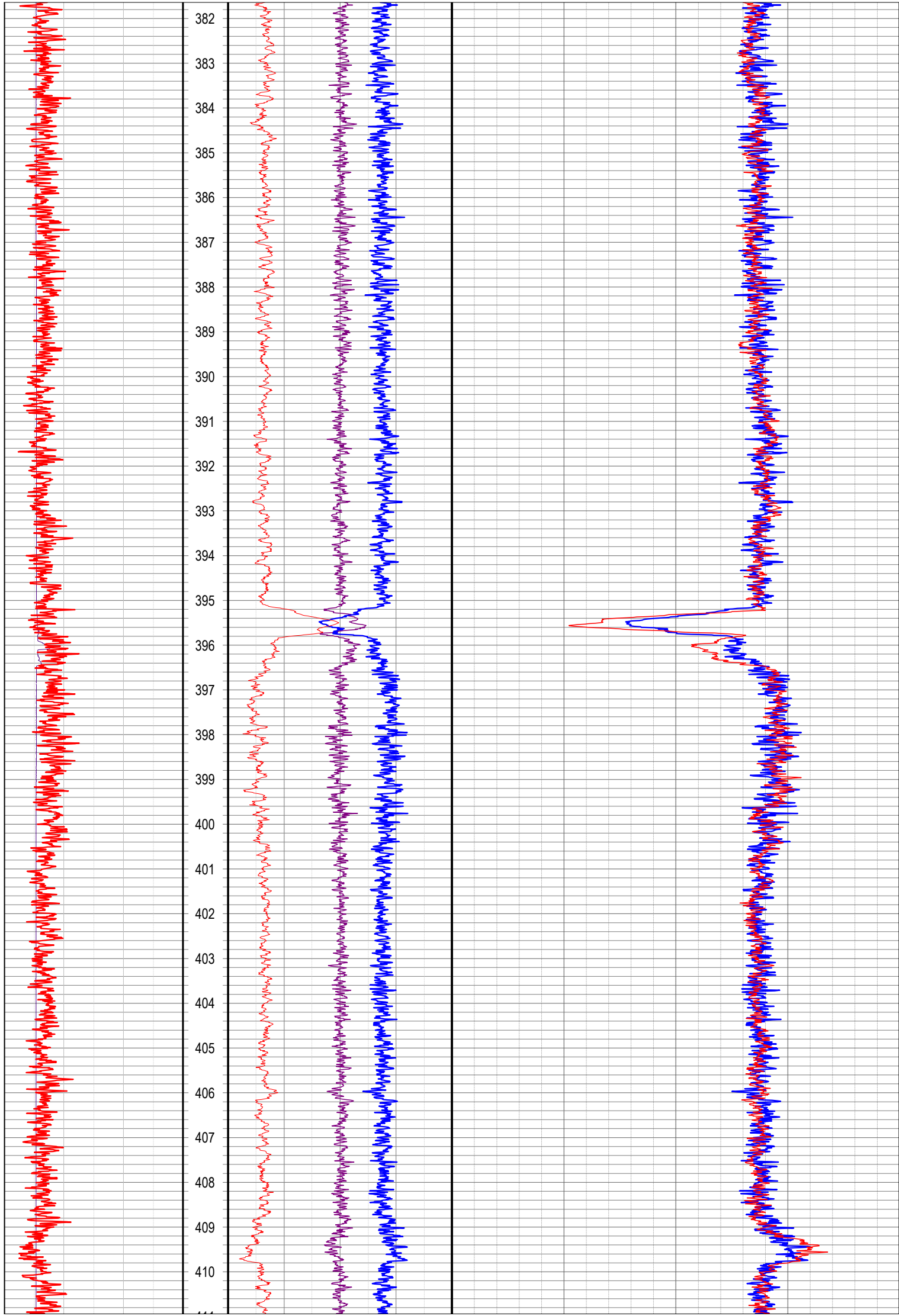


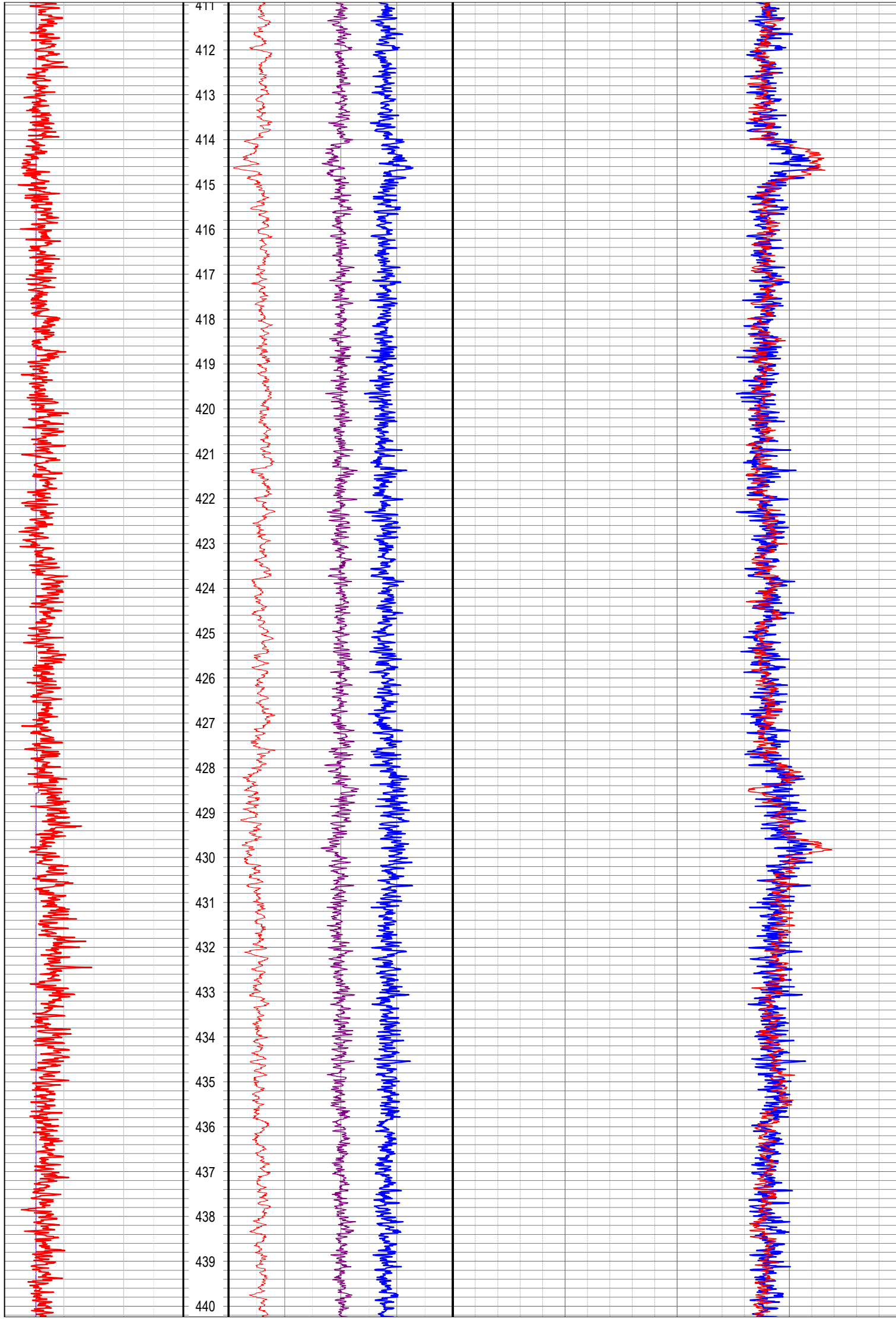




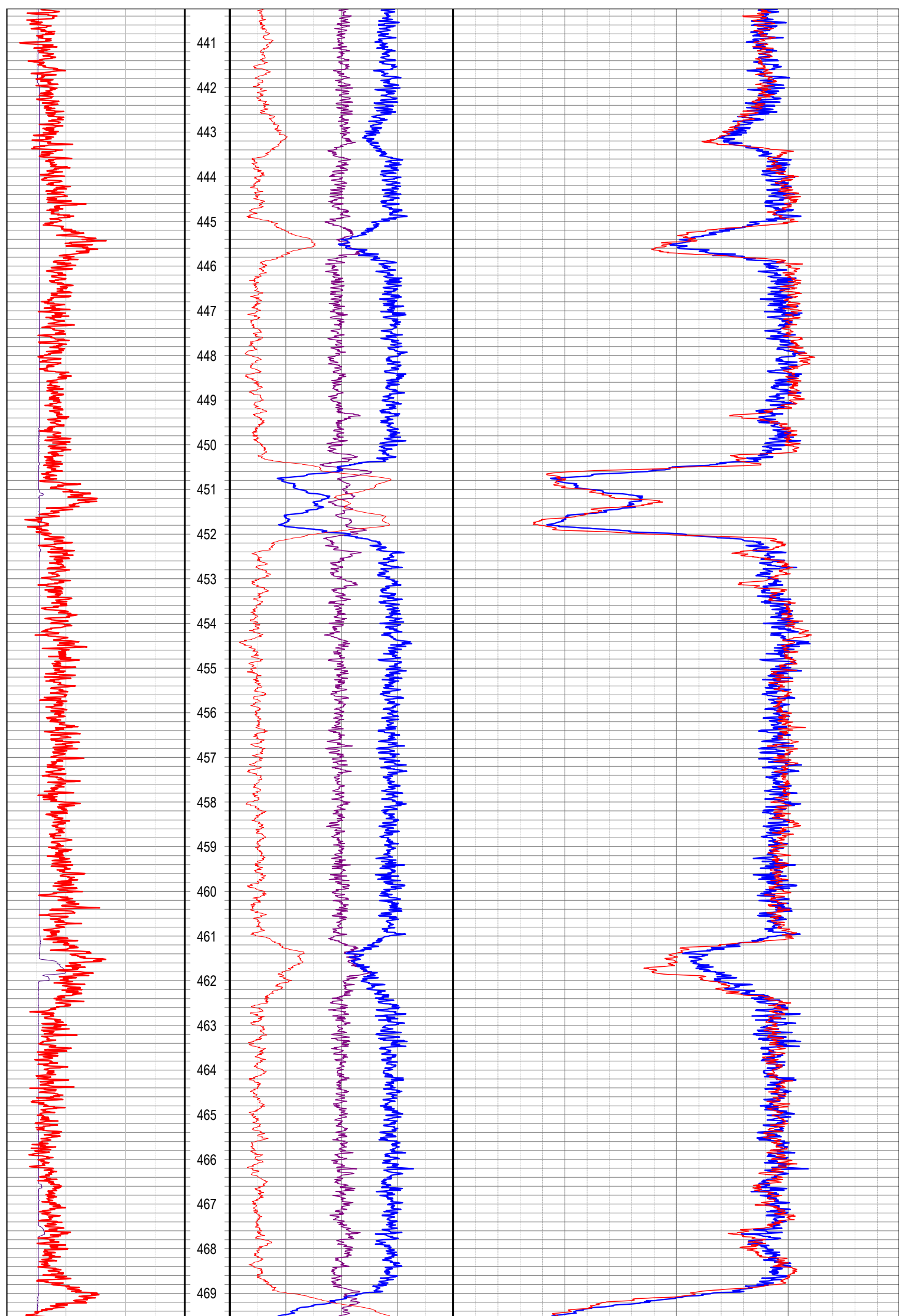


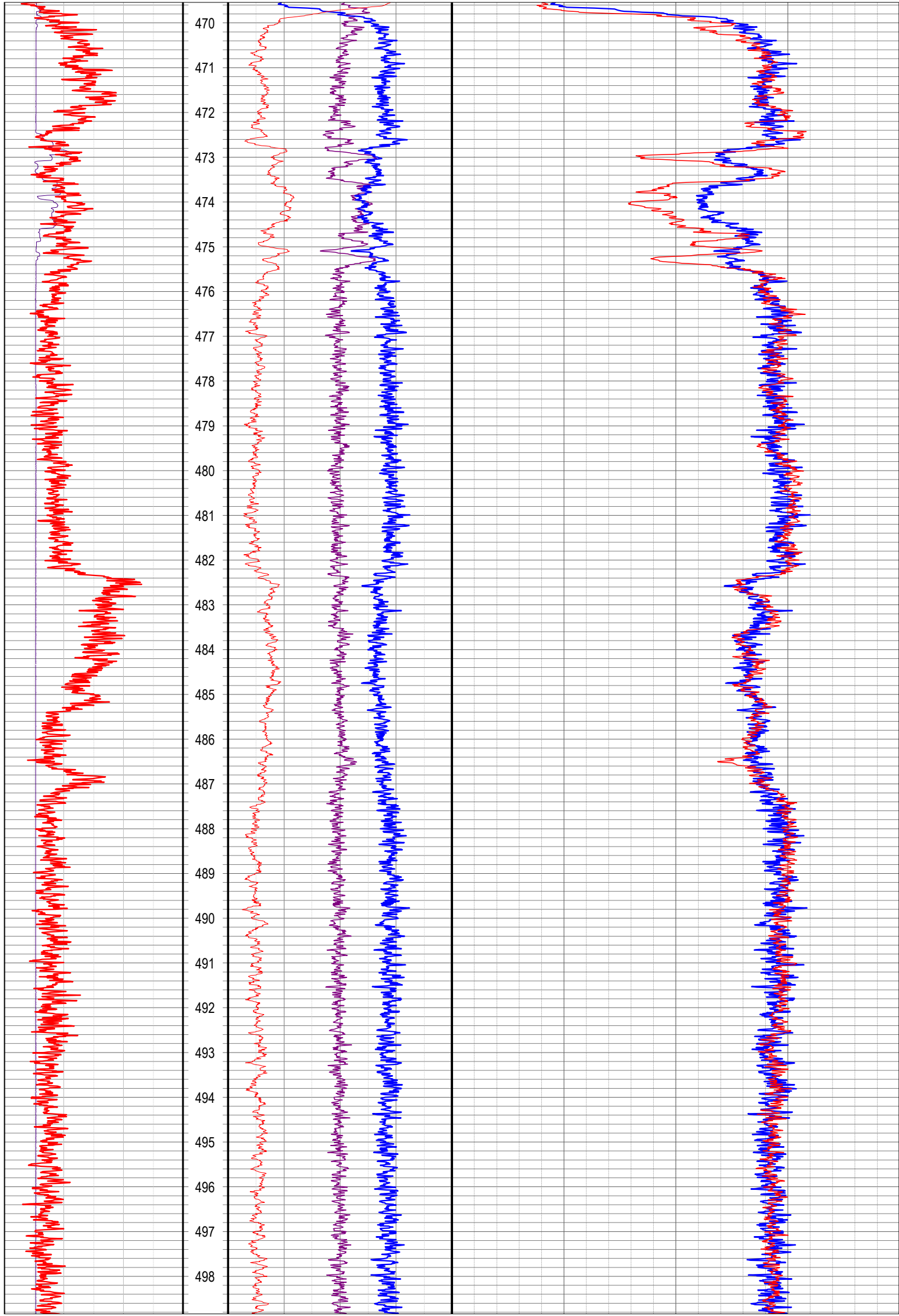


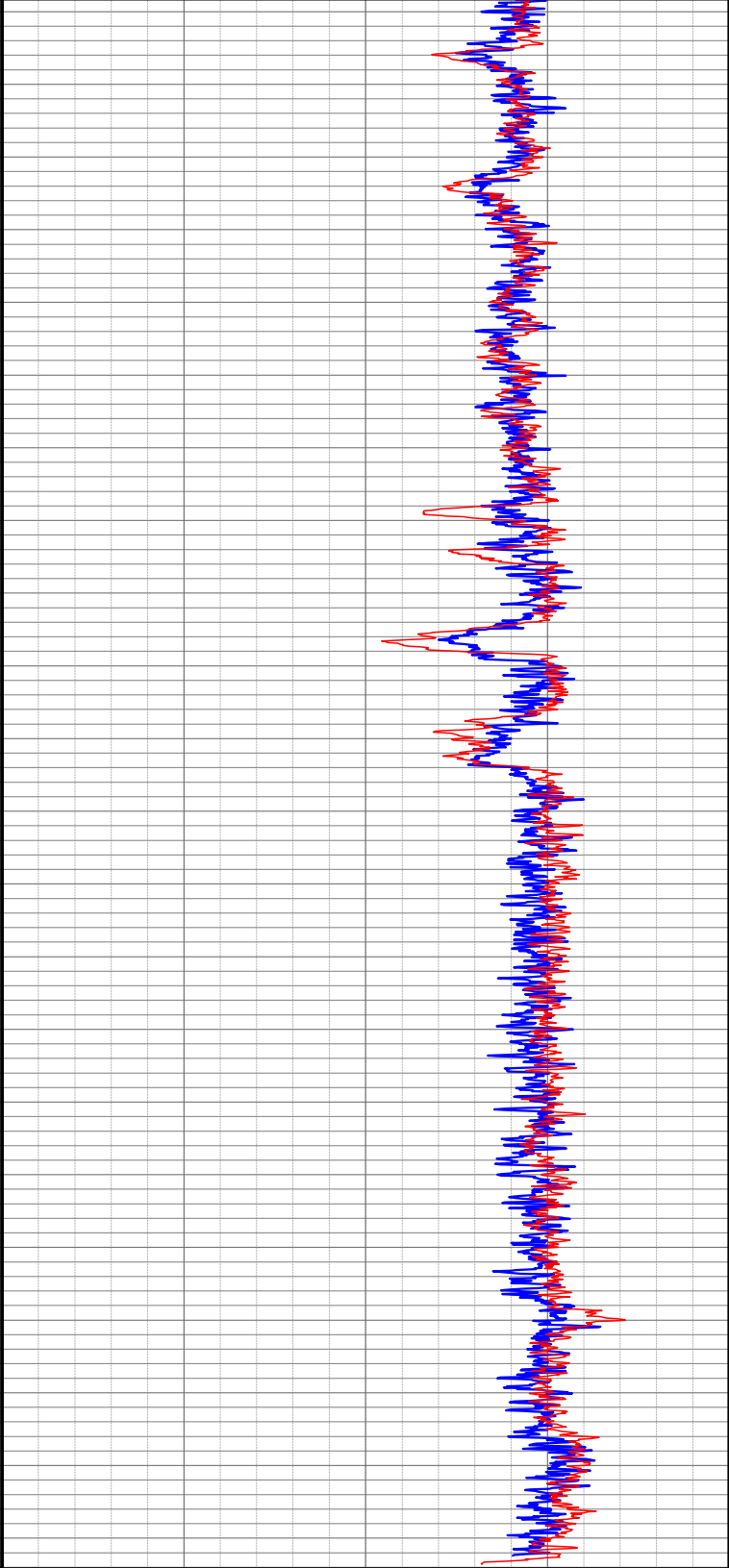
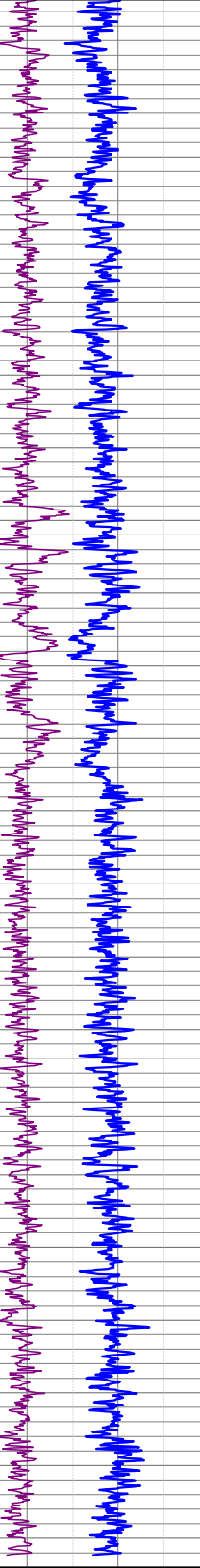
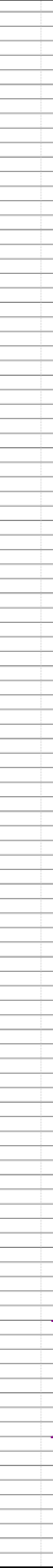
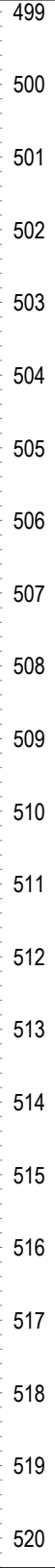
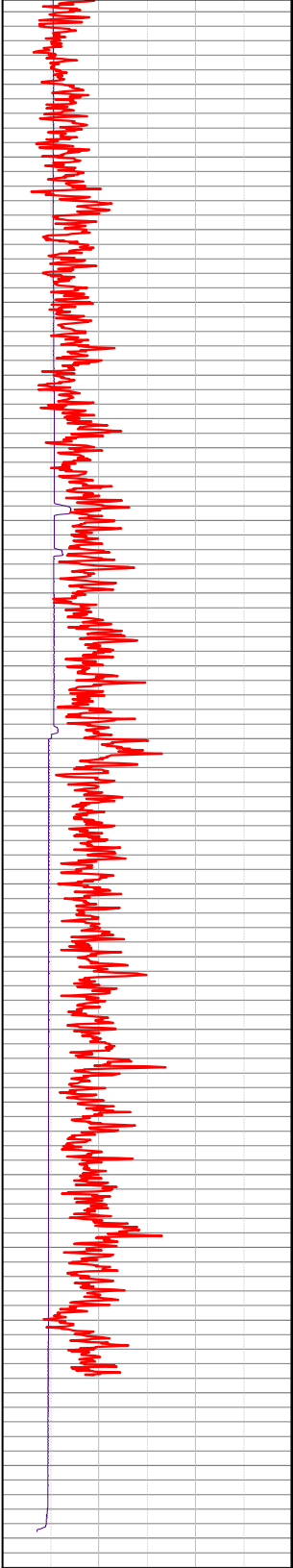












GRDEN		
Natural Gamma		
0	API	300
CALI		
CALIPER		
60	mm	260

DPOR-sand		
POROSITY (SANDSTONE MODEL)		
0	%	100
RHOB		
Bulk Density		
1	G/CC	3
DRHOB		
Differential Density		
-0.4	G/CC	0.4
SSD		
Short Spaced Density		
1	G/CC	3
LSD		
Long Spaced Density		
1	G/CC	3

Depth

1:100