



**MAGNETIC THICKNESS  
60 ARM CALIPER  
GAMMA RAY LOG**

Company WHITING OIL & GAS CORP.

Well RAZOR 22-2712H

Field RED TAIL

County WELD State COLORADO

Location: API # : 05-123-36257-00

NW/NW

SEC 22 TWP 10N RGE 58W

Permanent Datum GROUND LEVEL Elevation 4833.0  
Log Measured From KELLY BUSHING (16.5)  
Drilling Measured From KELLY BUSHING

Other Services  
Elevation  
K.B. 4849.5  
D.F. 4848.5  
G.L. 4833.0

Date 11-FEB-2013

Run Number ONE

Depth Driller 12568

Depth Logger 5125

Bottom Logged Interval 5123

Top Log Interval Surface

Open Hole Size 9.625"

Type Fluid WATER

Density / Viscosity 8.34LB/GAL

Max. Recorded Temp. NOT RECORDED

Estimated Cement Top NOT RECORDED

Time Well Ready 07:30

Time Logger on Bottom 11:50

Equipment Number HD-0119

Location FORT LUPTON, CO.

Recorded By SAM HOPPER

Witnessed By MIKE STAB

Borehole Record  
Run Number Bit From To Size Weight From To

Casing Record  
Surface String Size 9-5/8" Wgt/Ft 36 lbs Top 0 Bottom 1614  
Prot. String 7" 29 lbs 0 6138.9  
Production String 4-1/2" 11.6 lbs 5154 12563

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

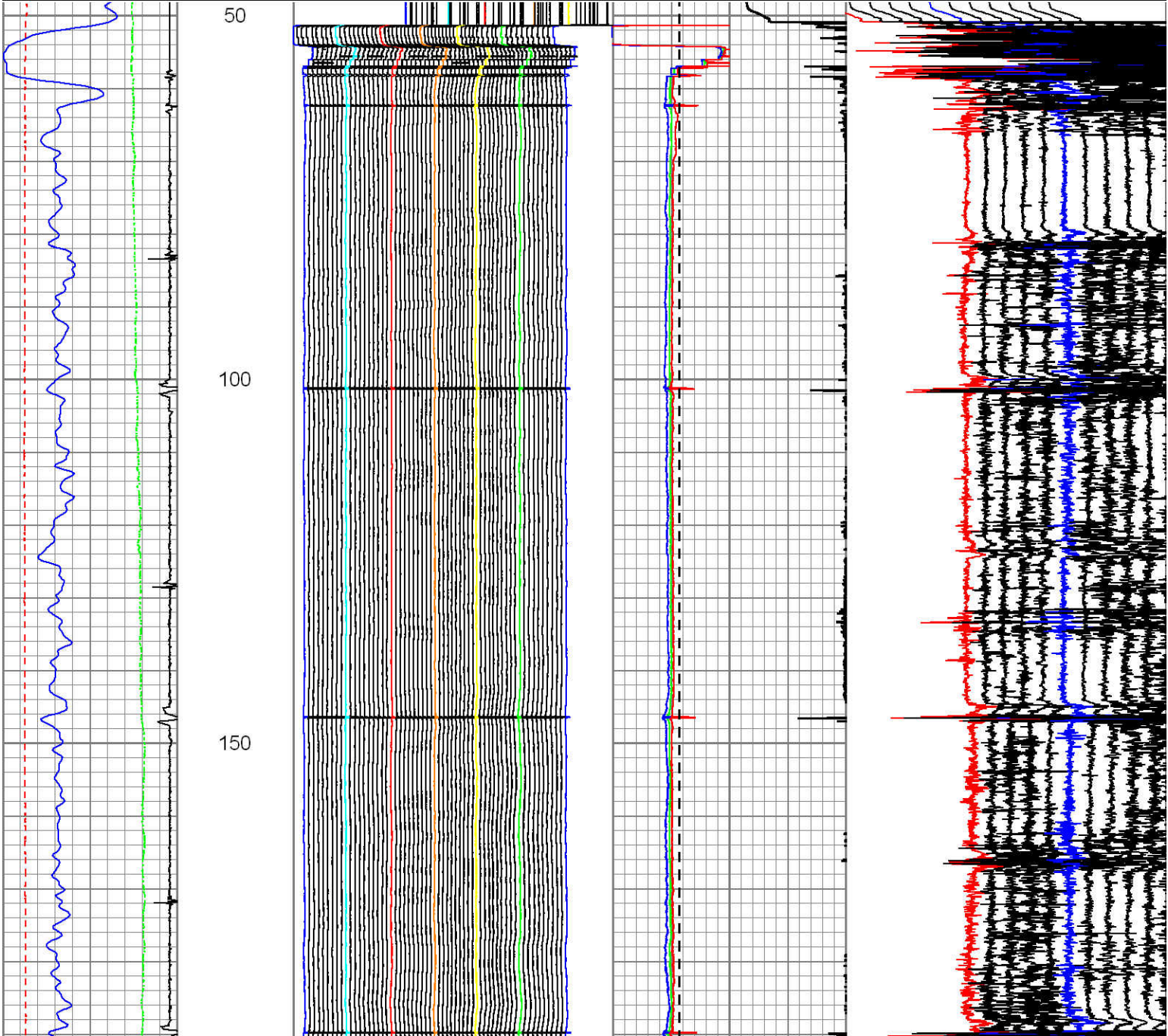
FMC TECHNOLOGIES CASED HOLE MIT - MTT IS FIRST RUN IN HOLE.  
DEPTH REF TO CASING TALLY REPORTS LINER TOP AT 5154 (+40').

THANK YOU FOR USING FMC TECHNOLOGIES COMPLETION SERVICES

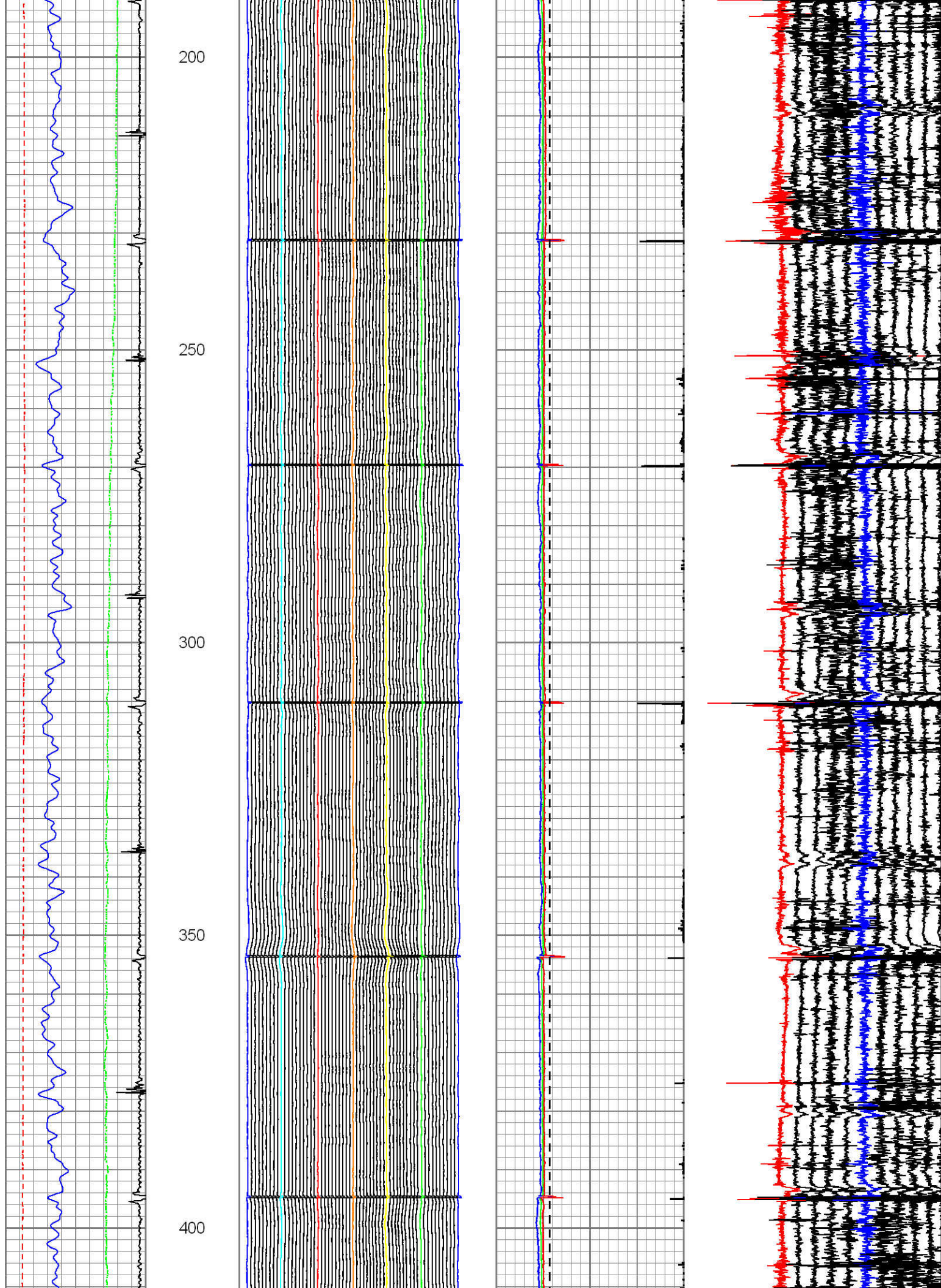


Main Pass

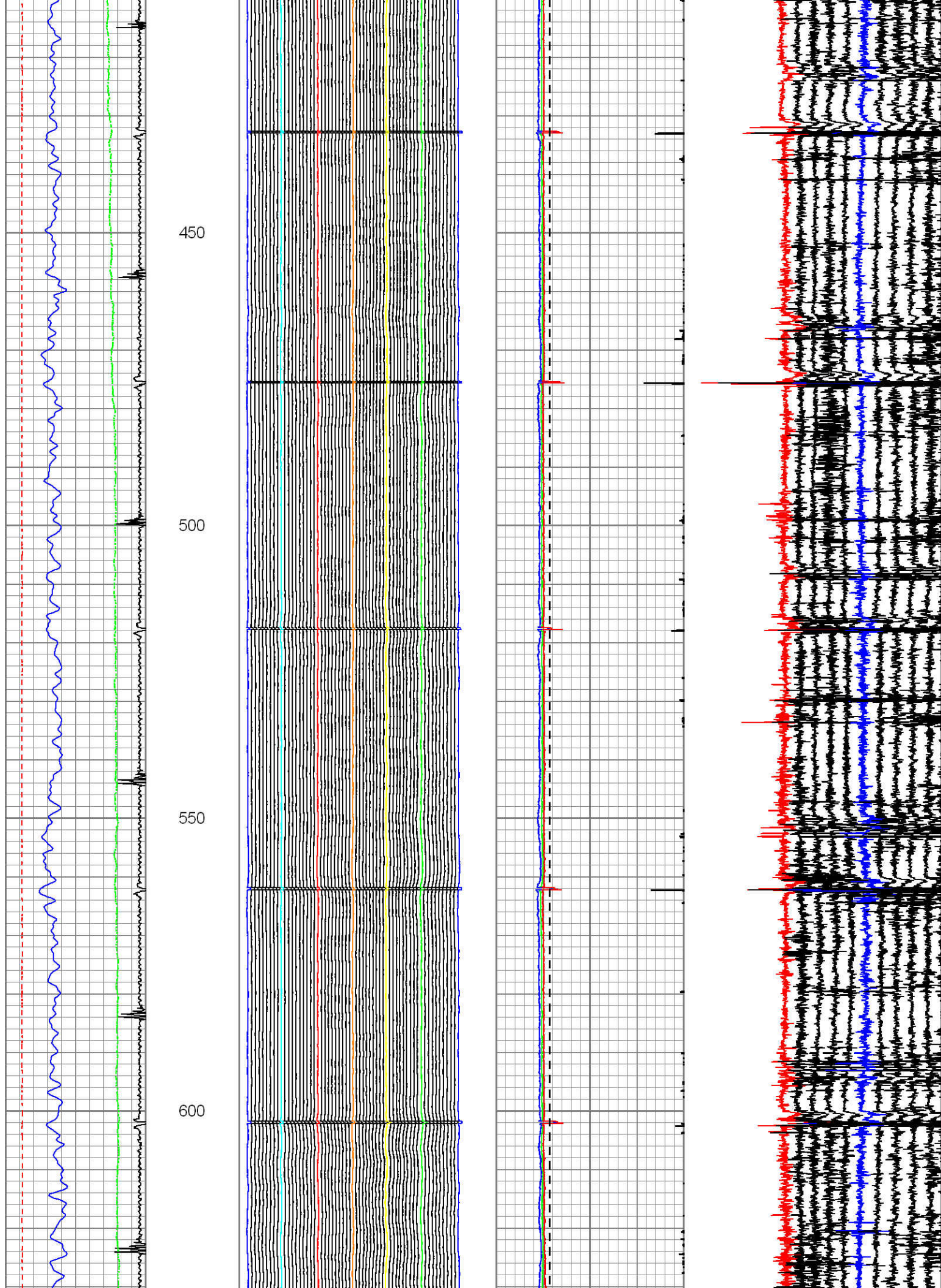
<div>MIT Deviation</div> <div>-10 (°) 90</div> <div>Gamma Ray</div> <div>0 (GAPI) 120</div> <div>-1250 CCL 50</div> <div>MIT Rotation</div> <div>0 (°) 360</div>	2.559	FING01 (in)	16.732	Average Diameter	MTT Mean Phase	1	MTTP01 (rad)	9
	0.787	FING10 (in)	14.961	5.184r7.184		0.5	MTTP02 (rad)	8.5
	-1.181	FING20 (in)	12.992	Minimum Diameter		-4	MTTP11 (rad)	4
	-5.118	FING40 (in)	9.055	5.184r7.184		-4.5	MTTP12 (rad)	3.5
	-9.055	FING60 (in)	5.118	Maximum Diameter				
	-7.087	FING50 (in)	7.087	5.184r7.184				
				Nominal Diameter				
				5.184r7.184				



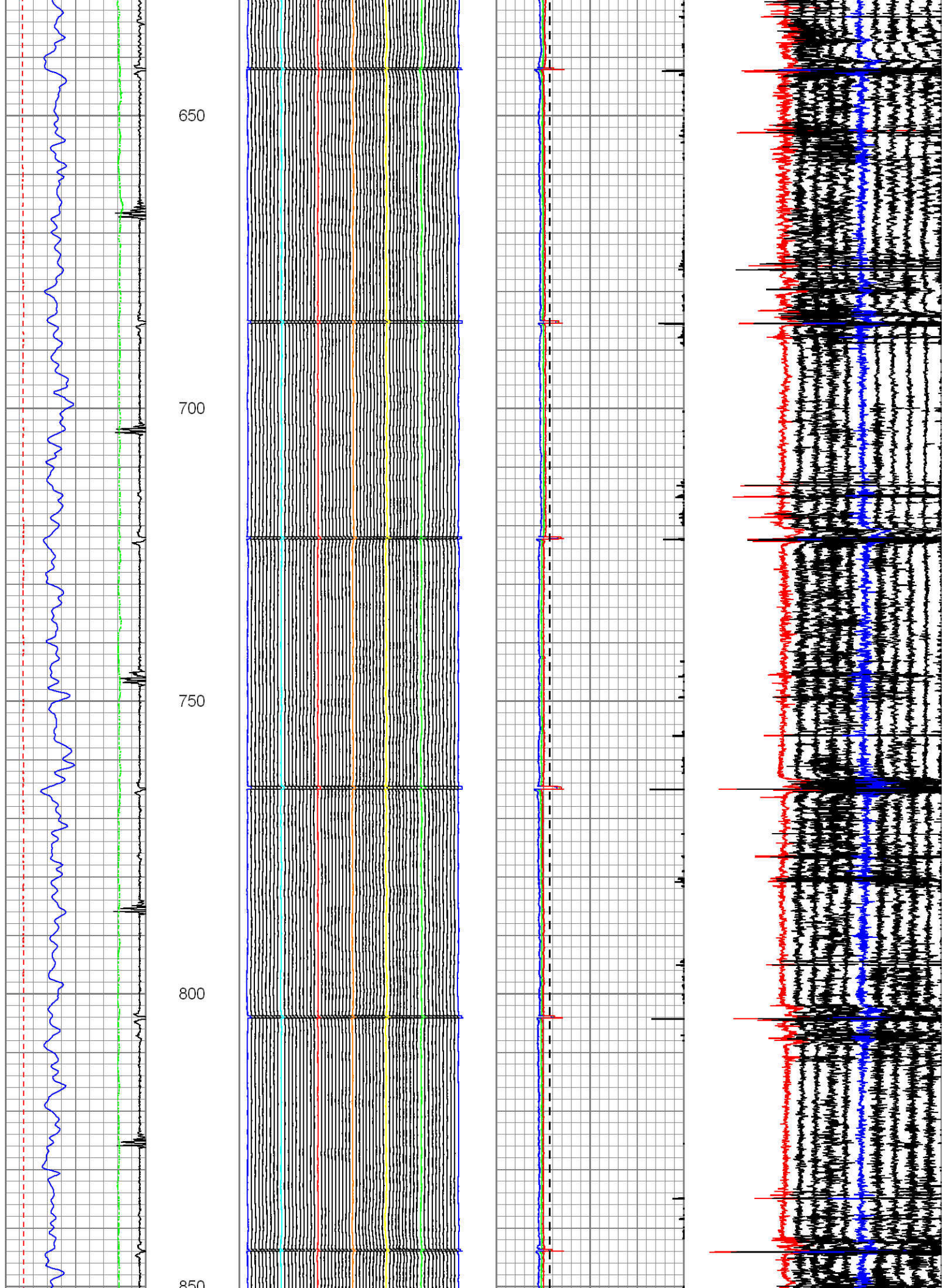




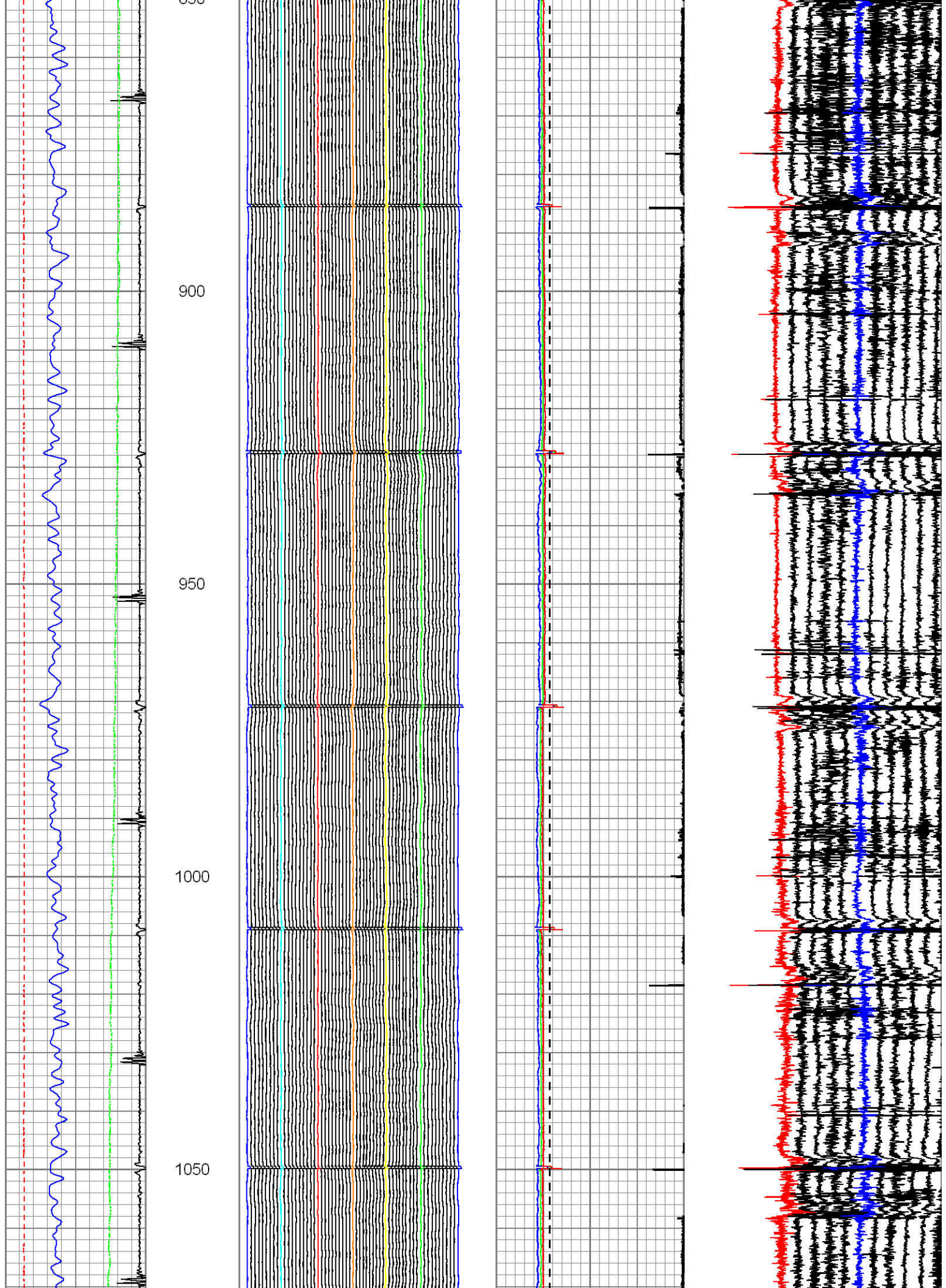




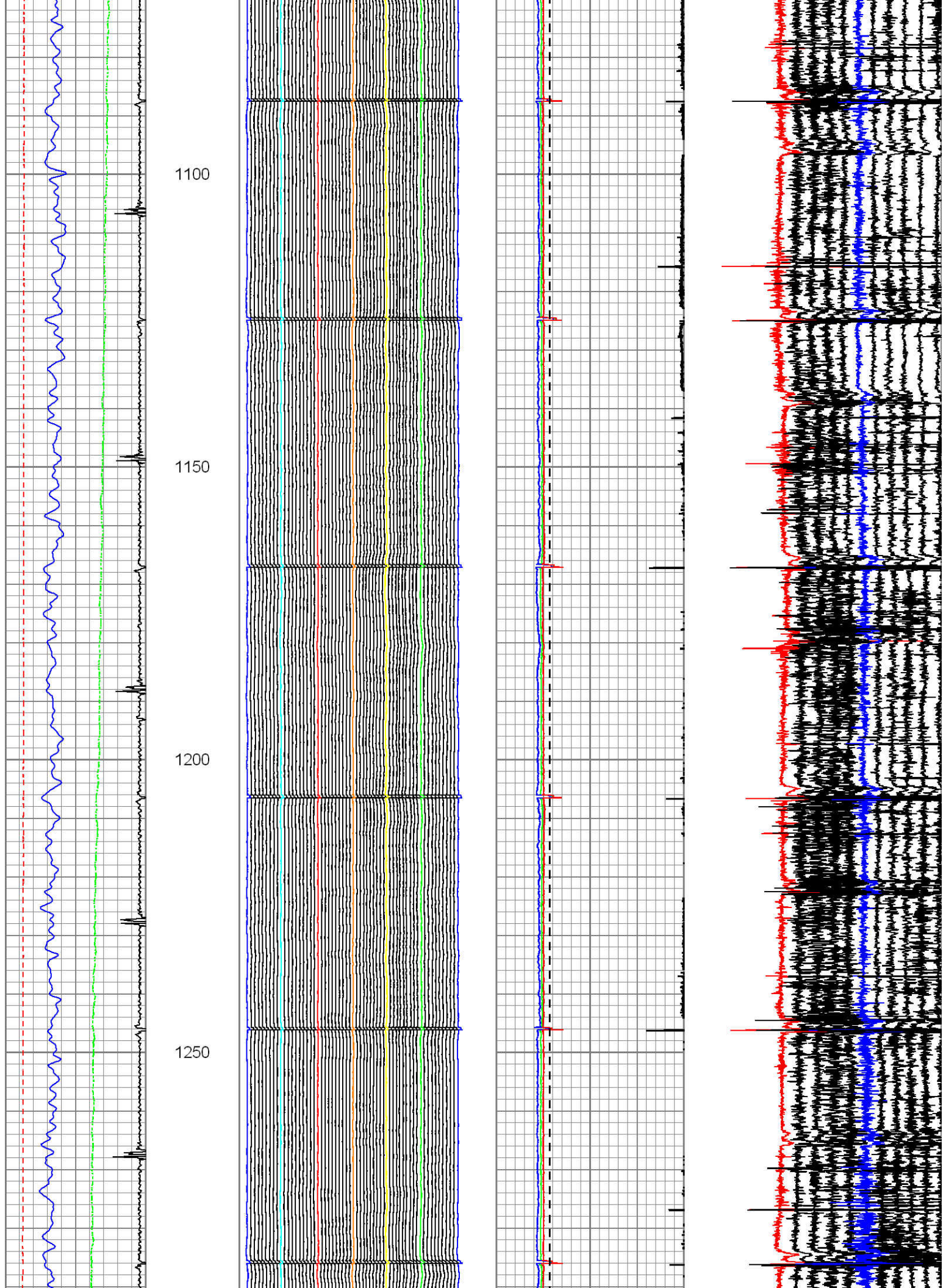




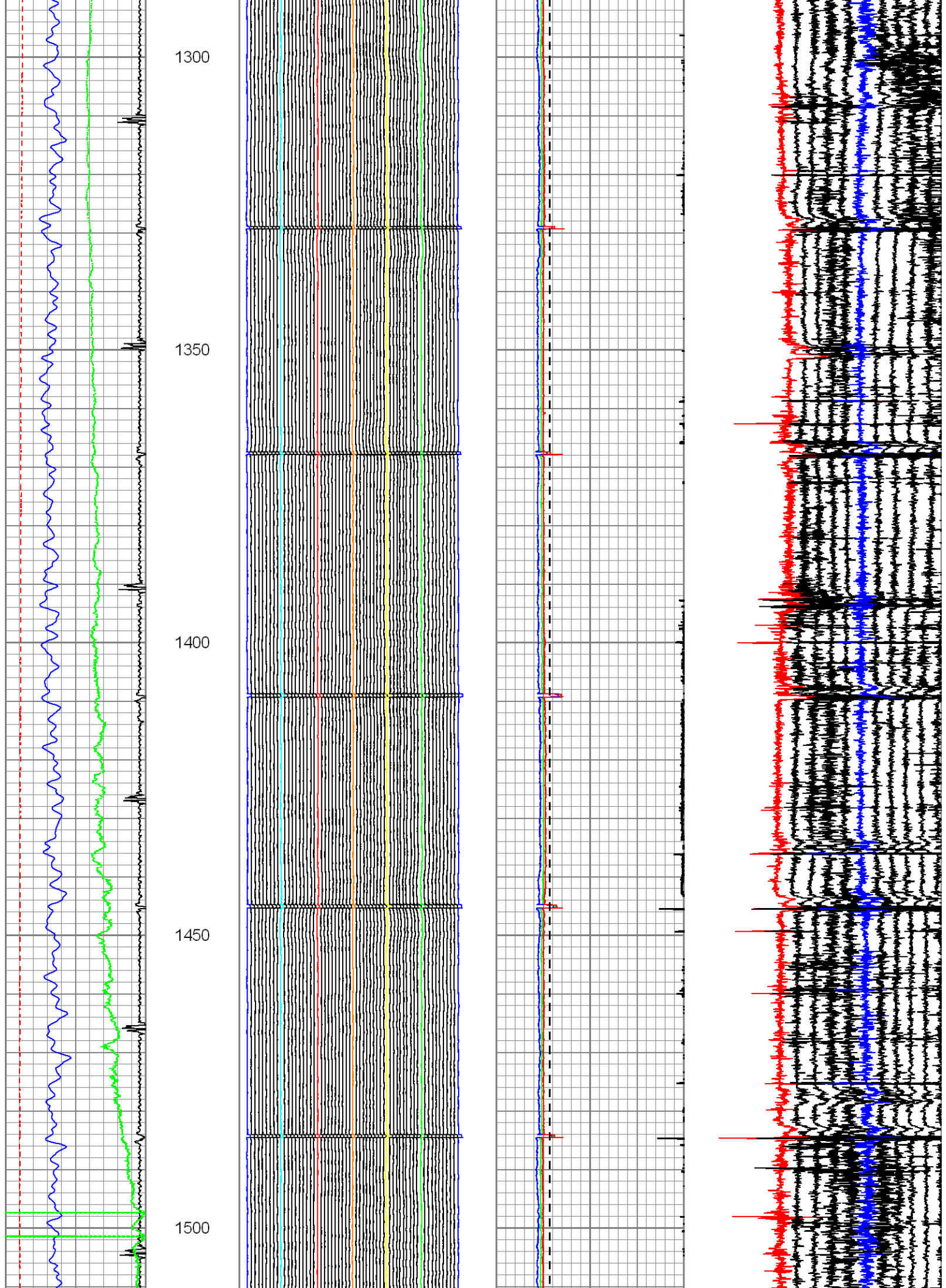




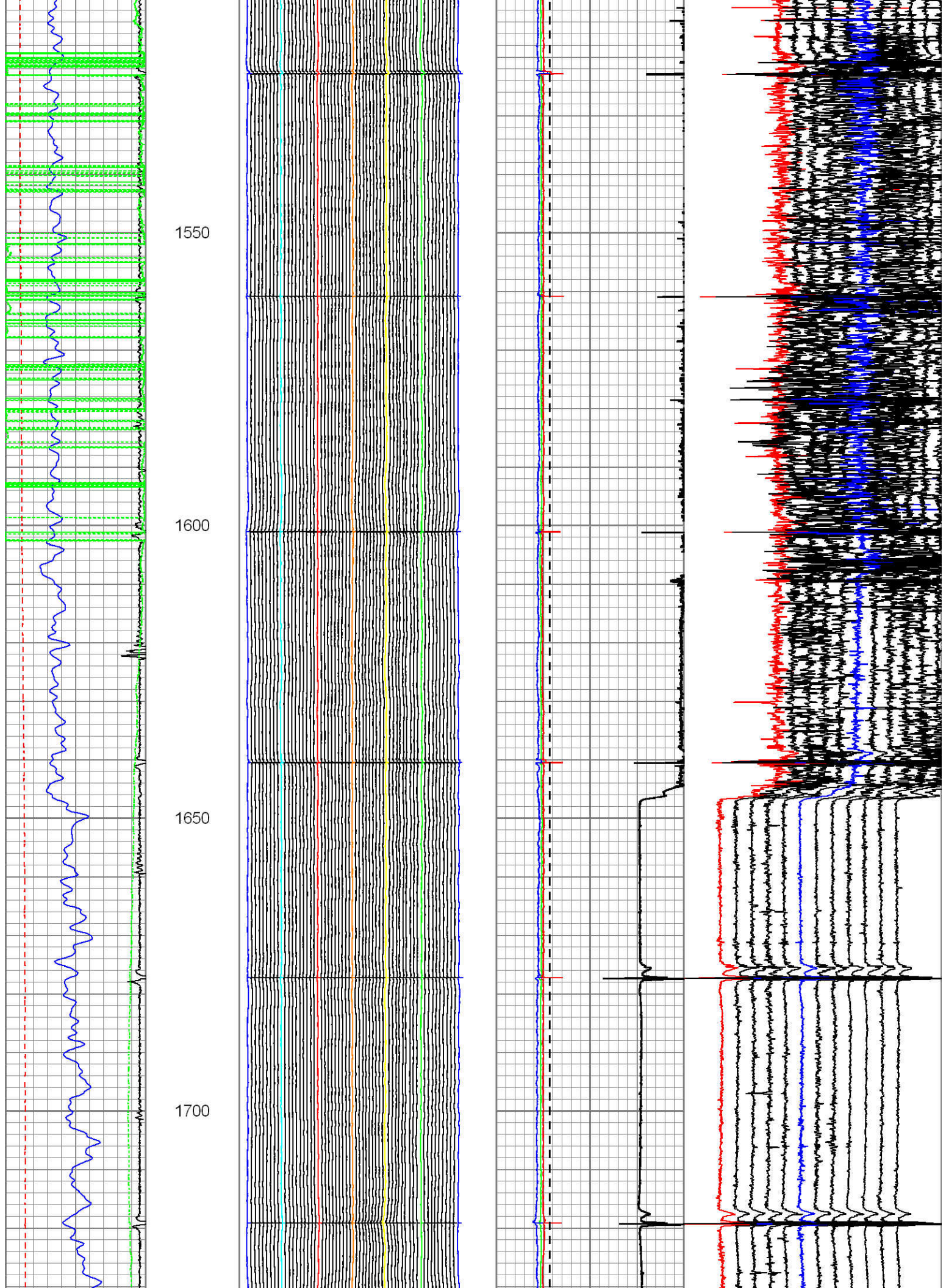




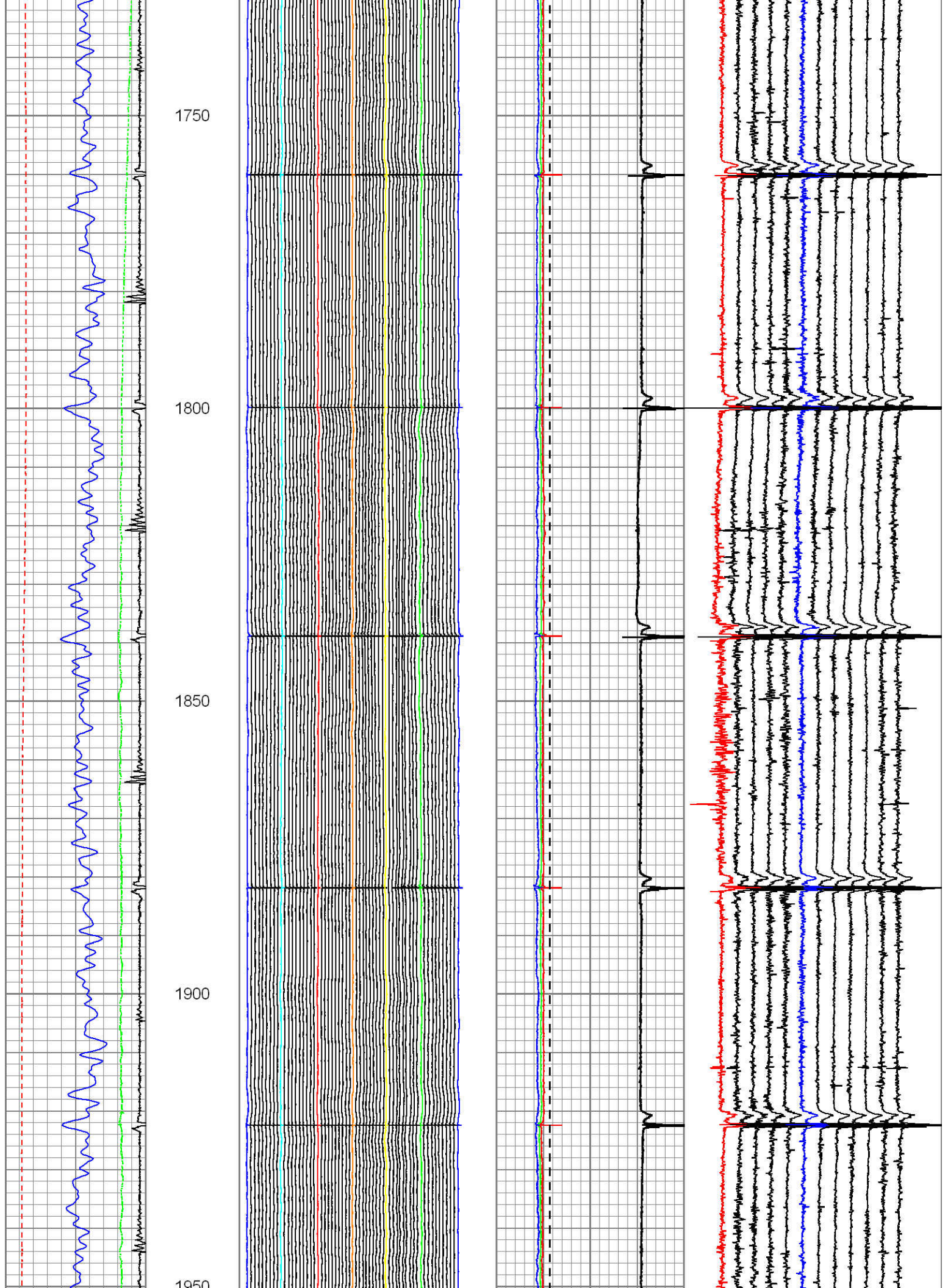




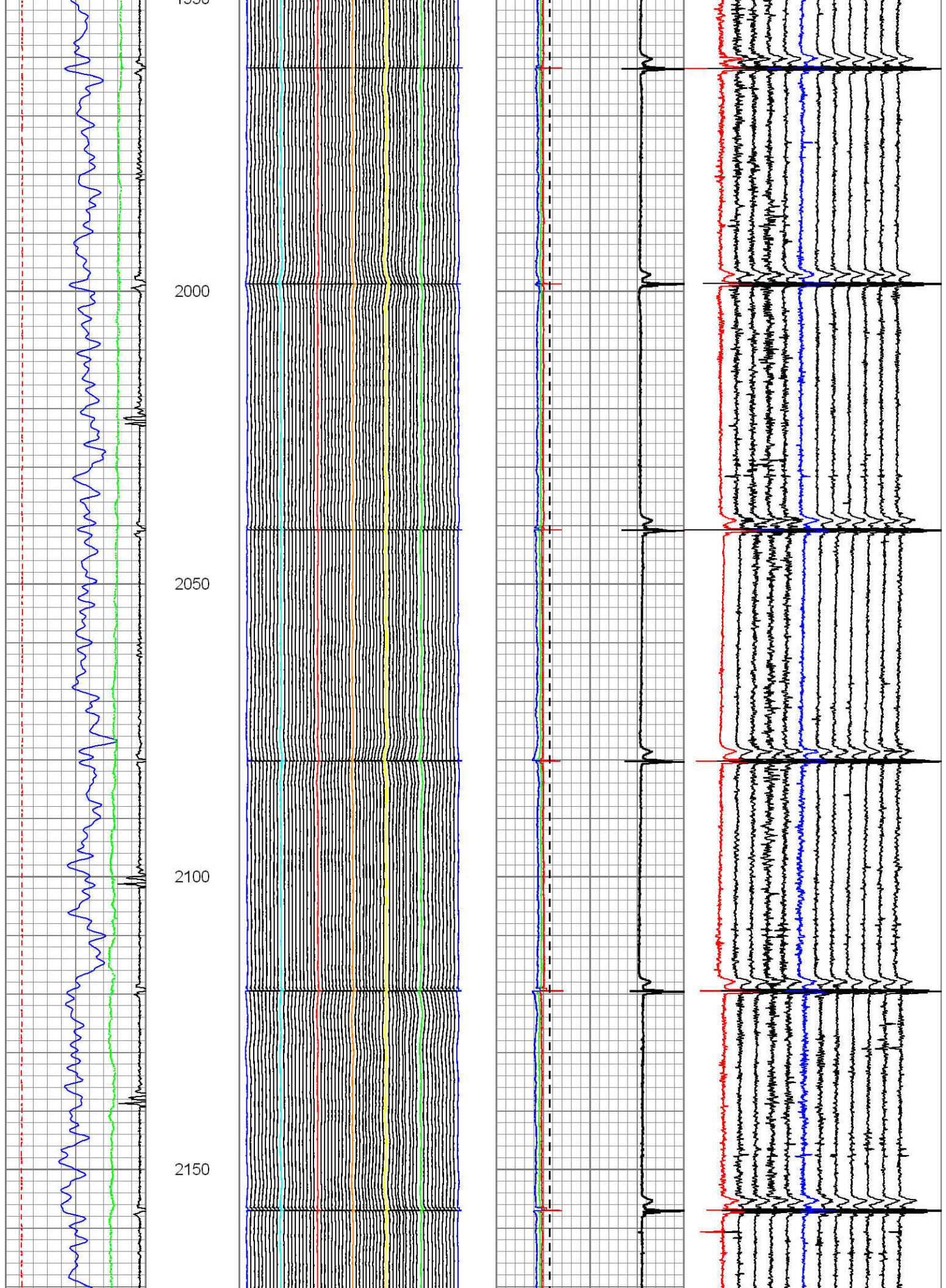




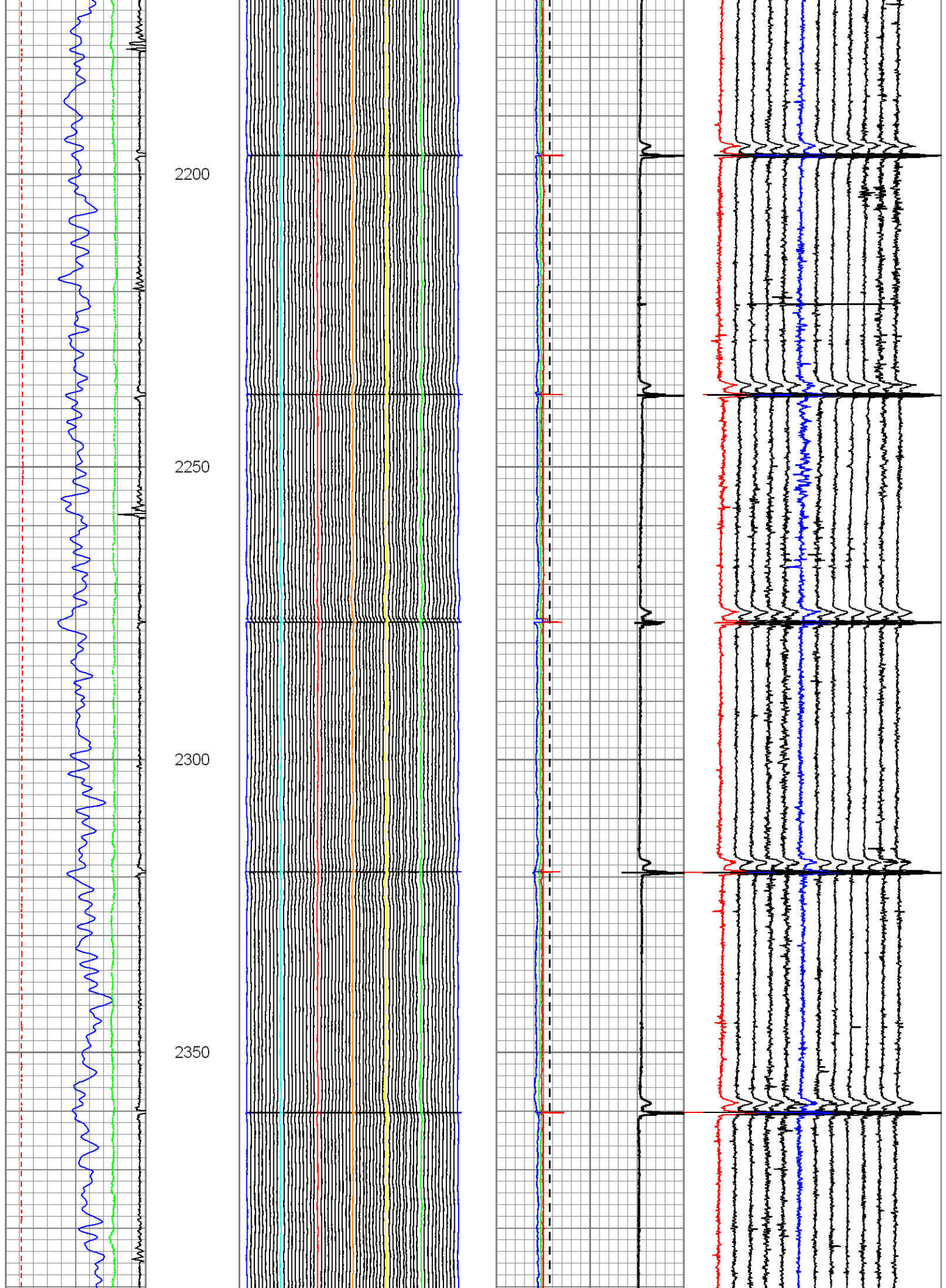




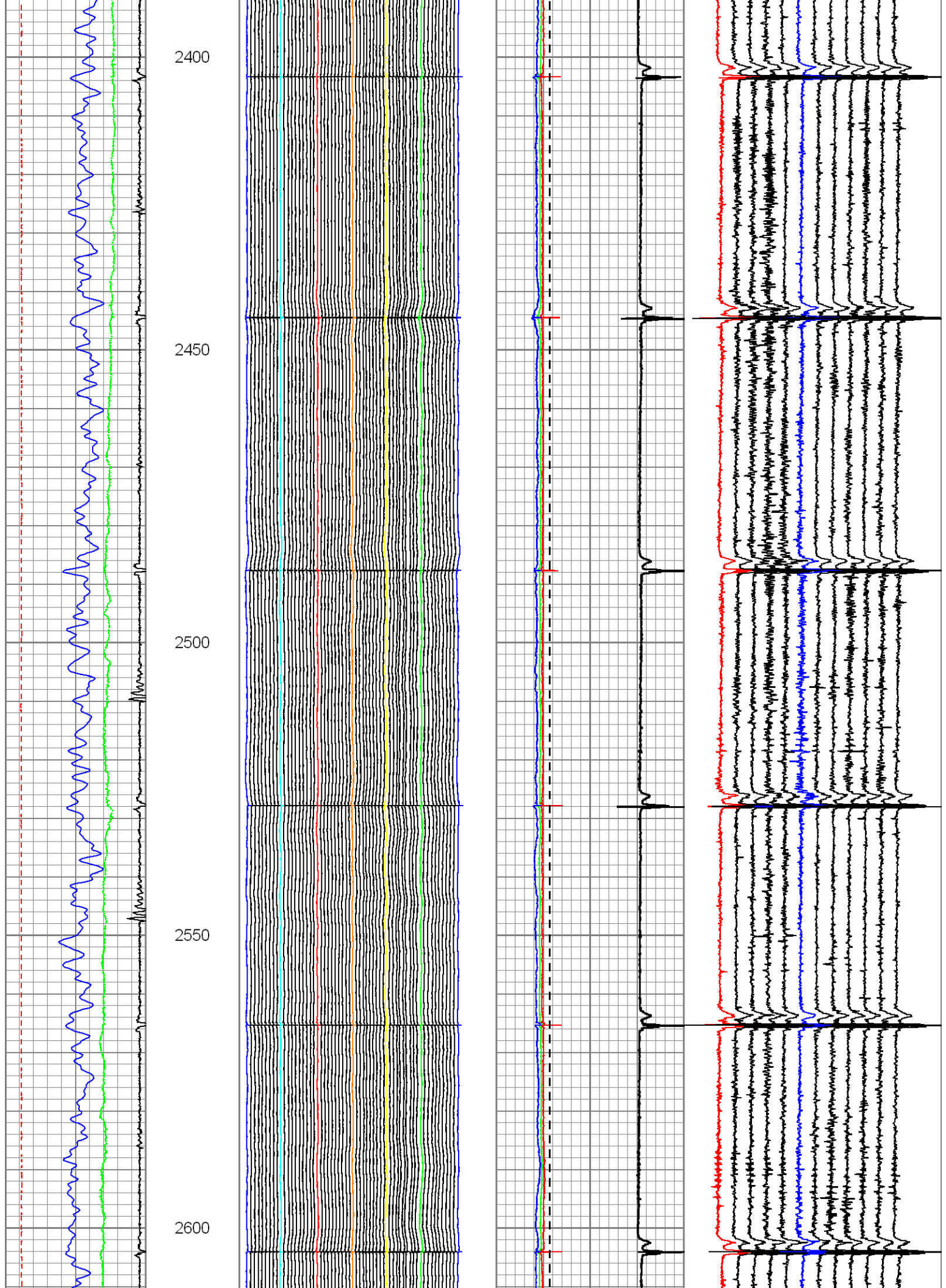




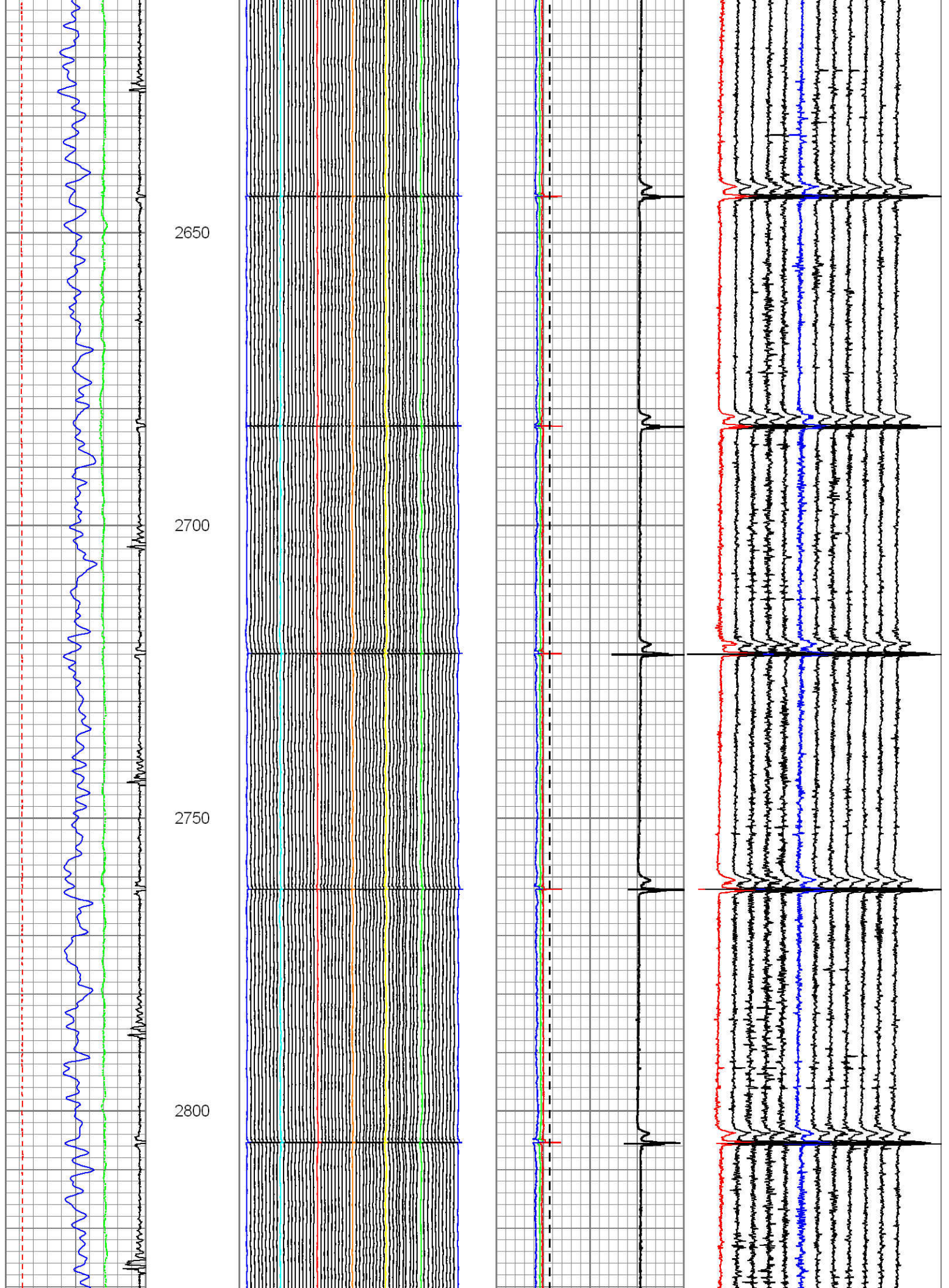




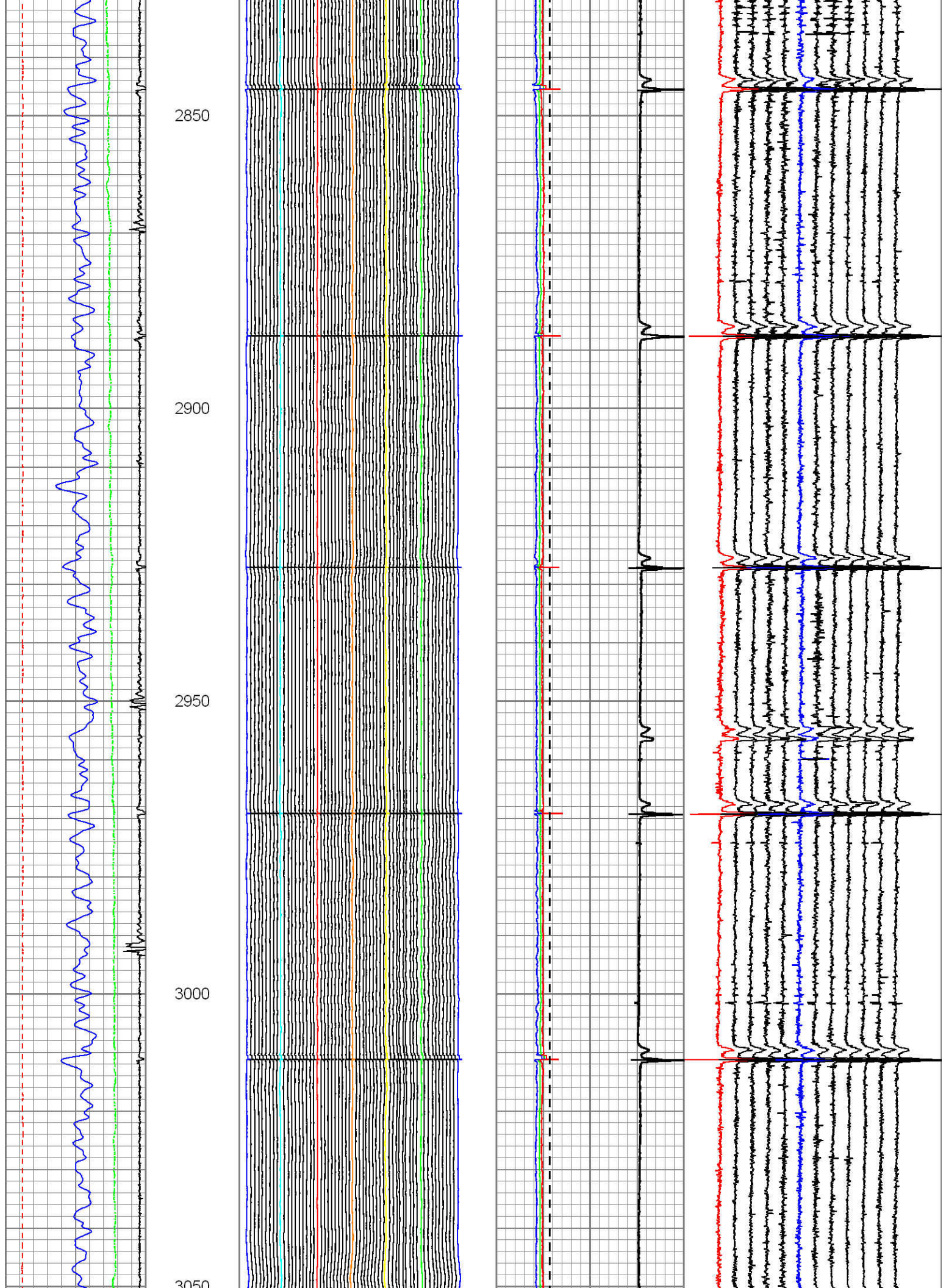




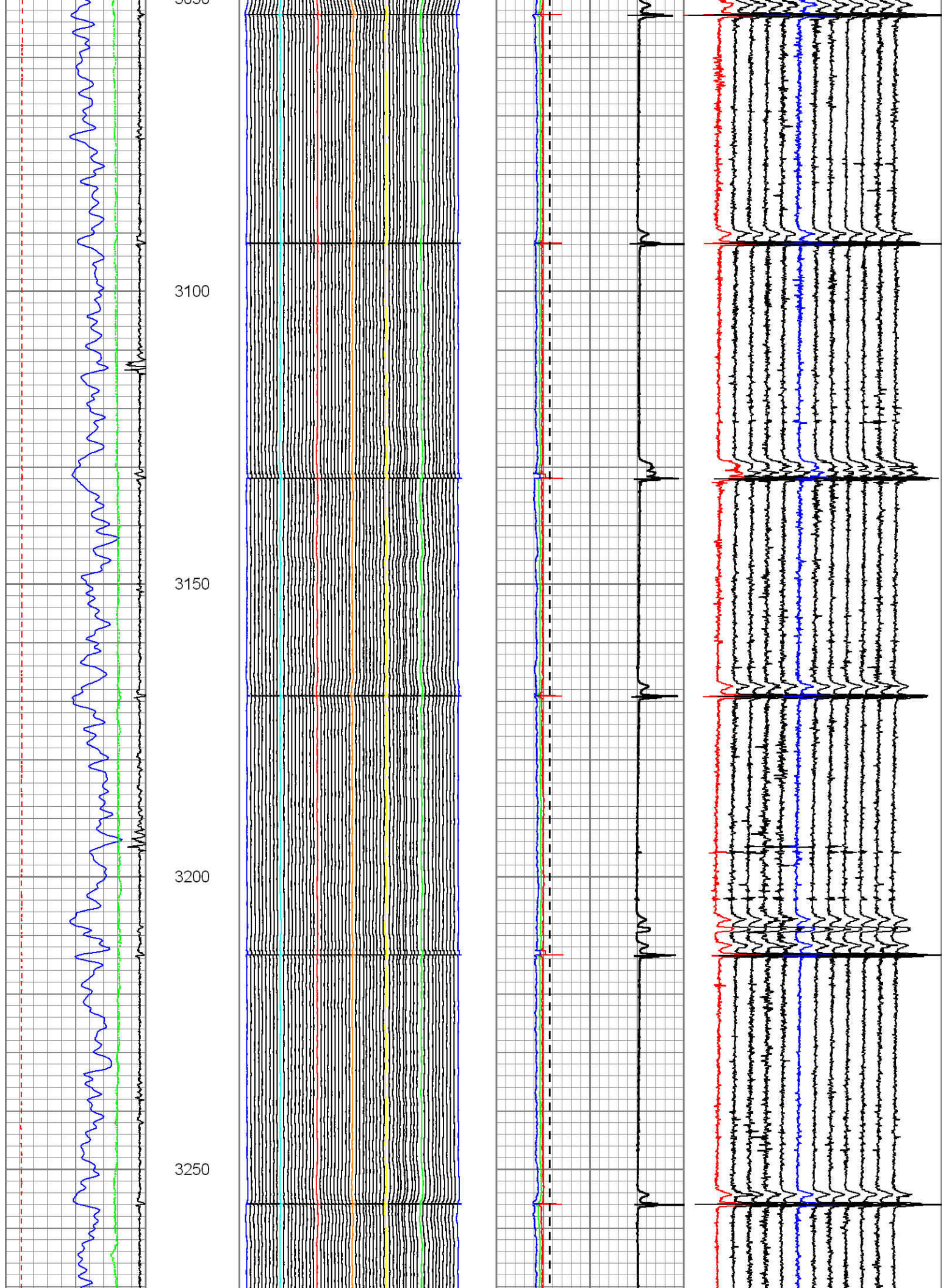




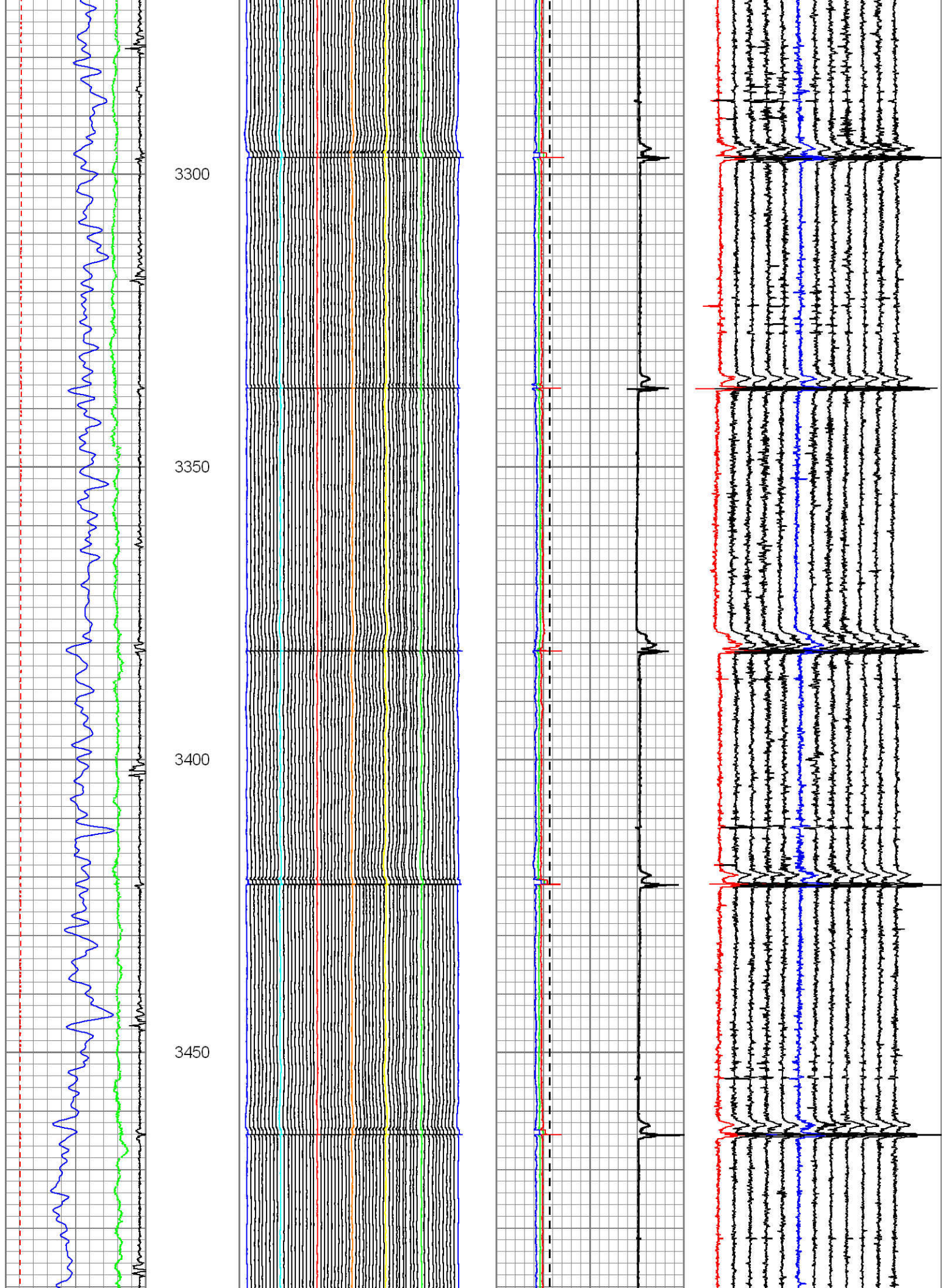




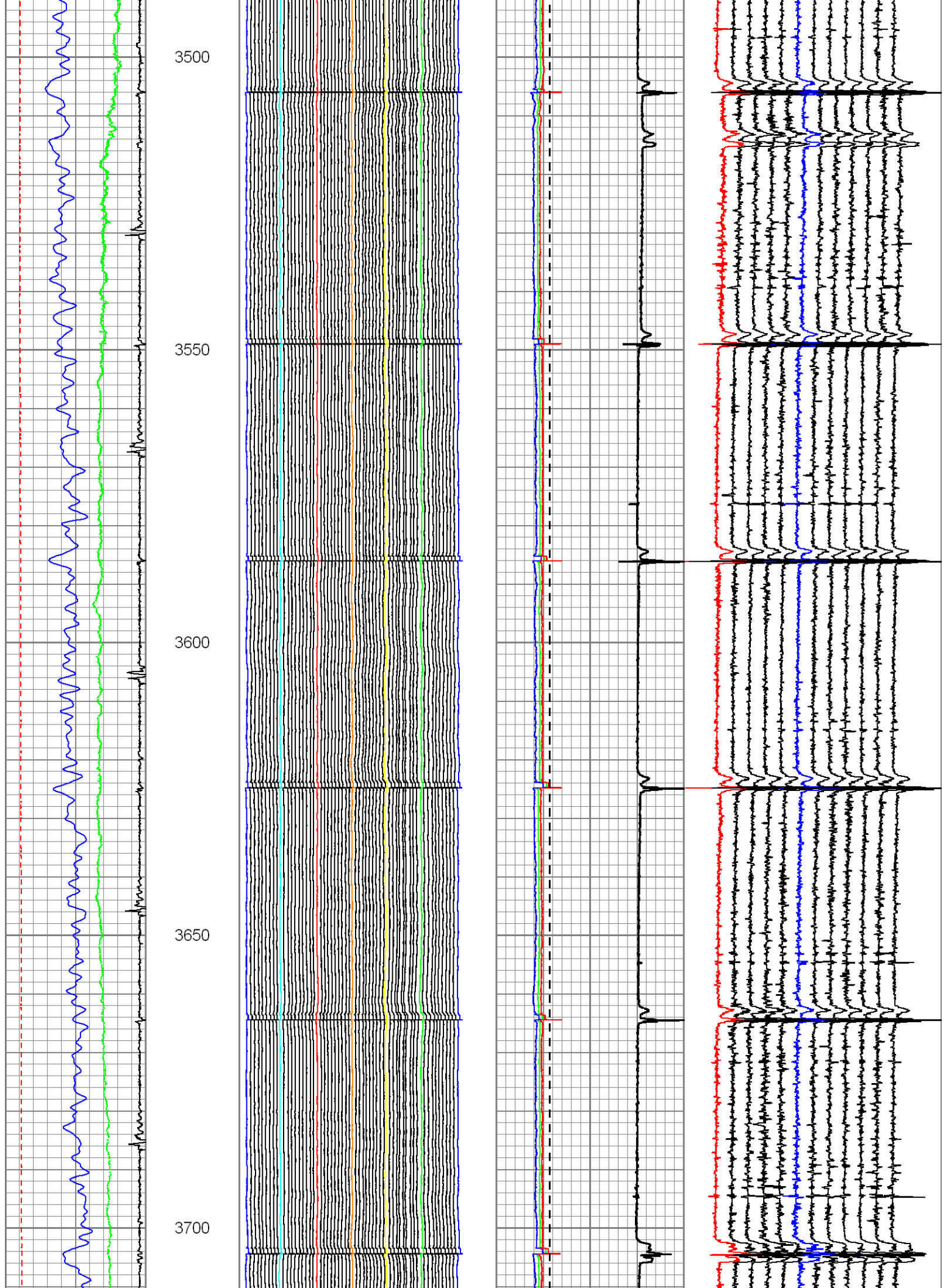




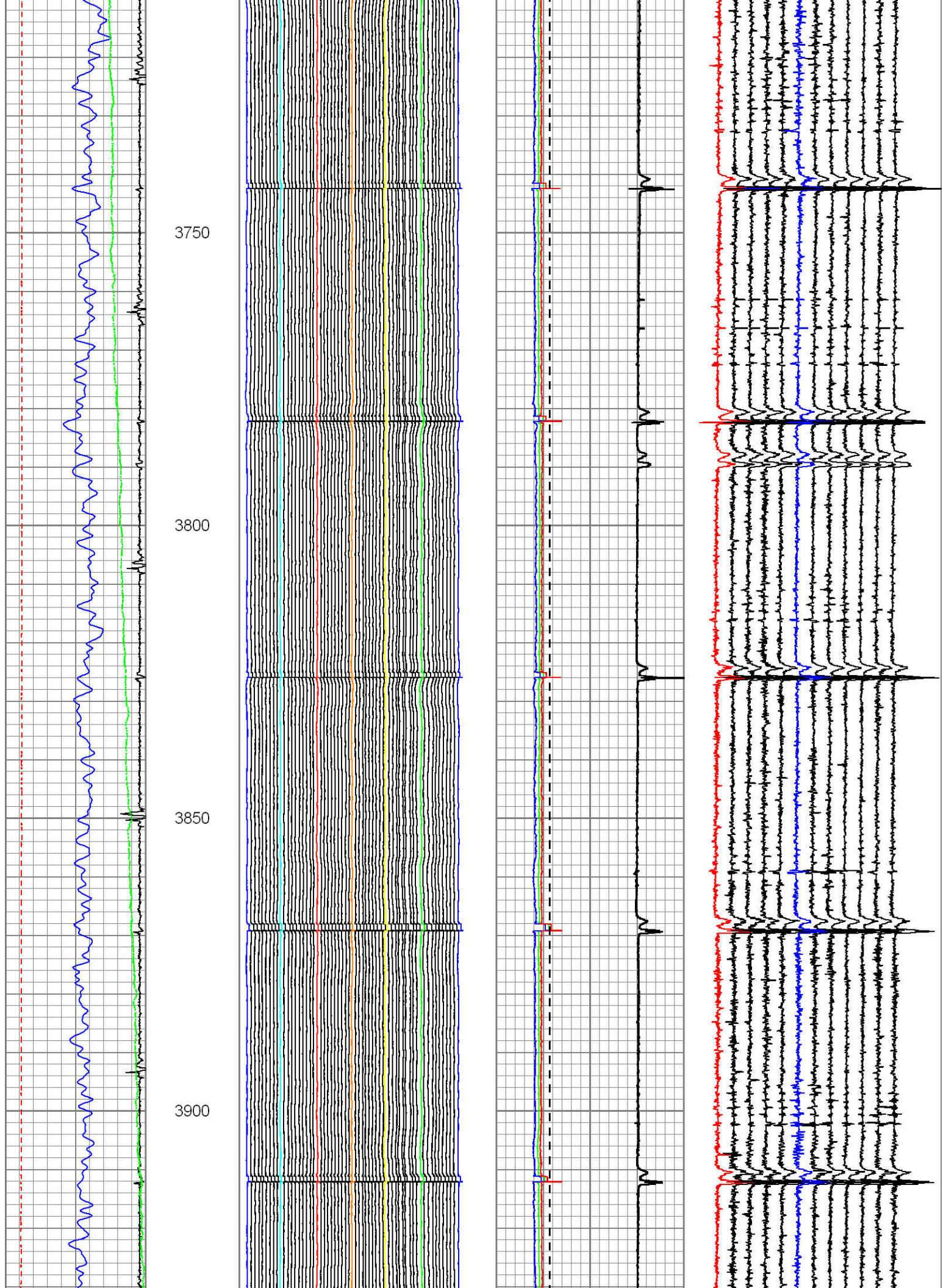




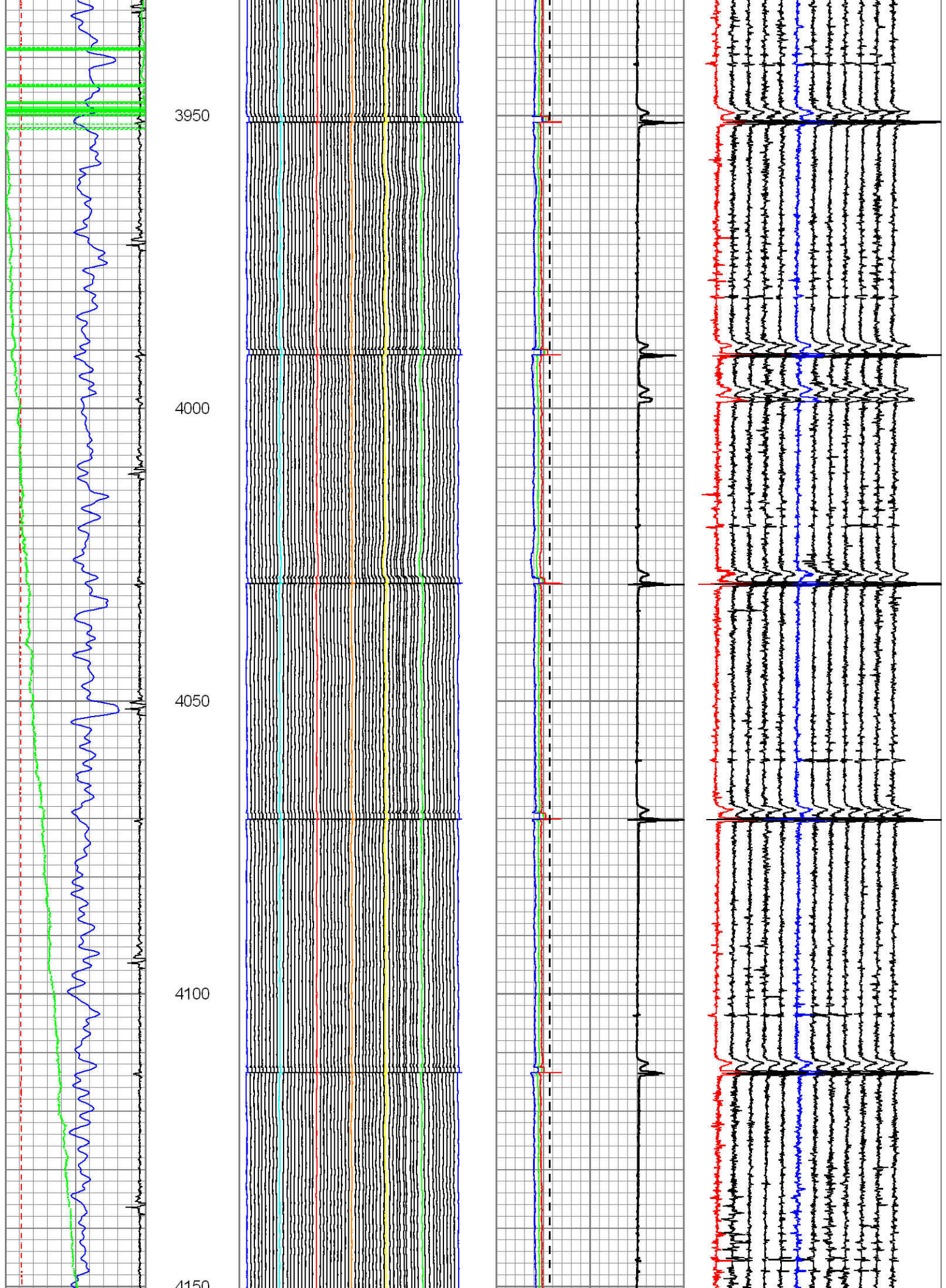




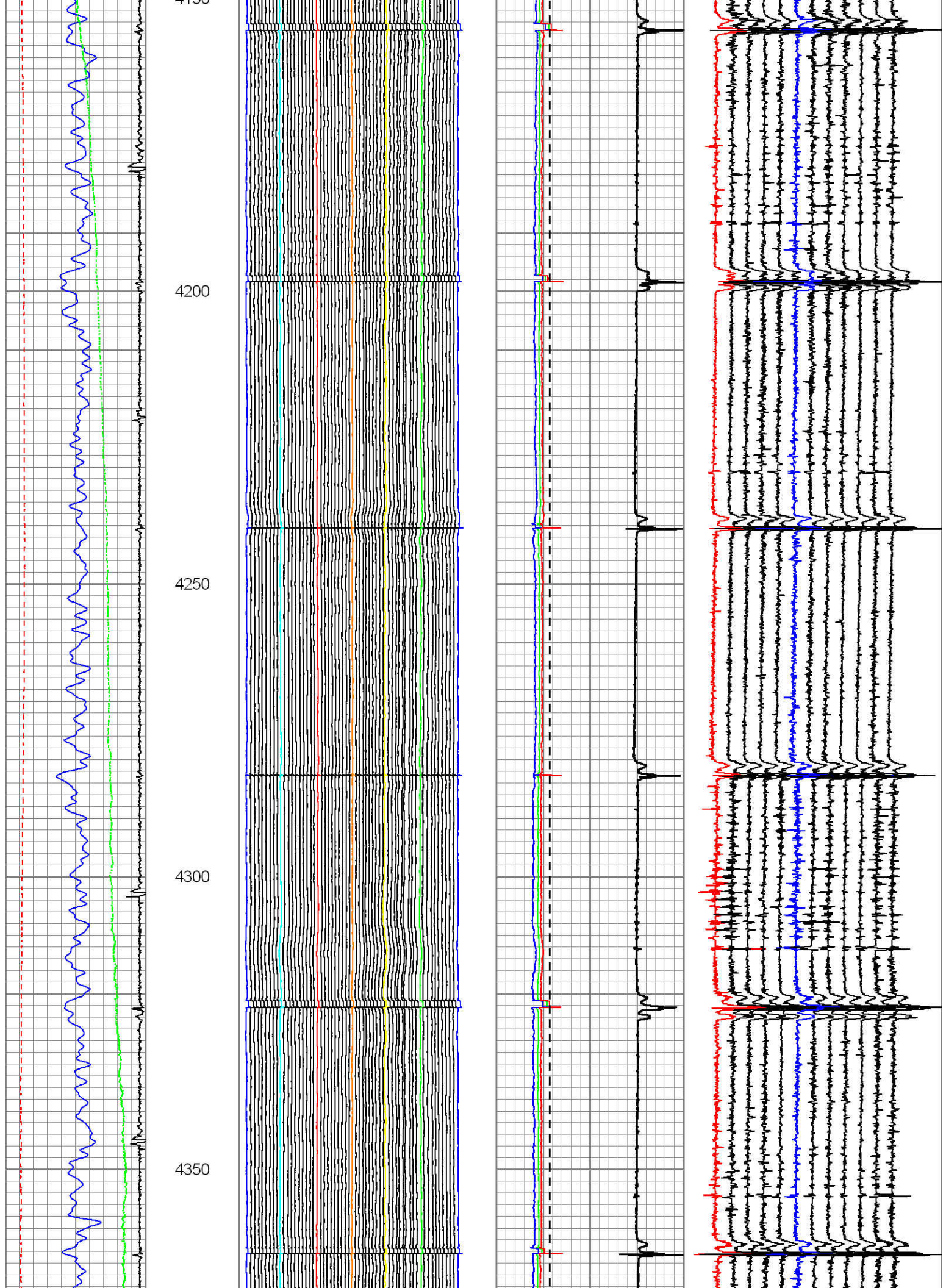




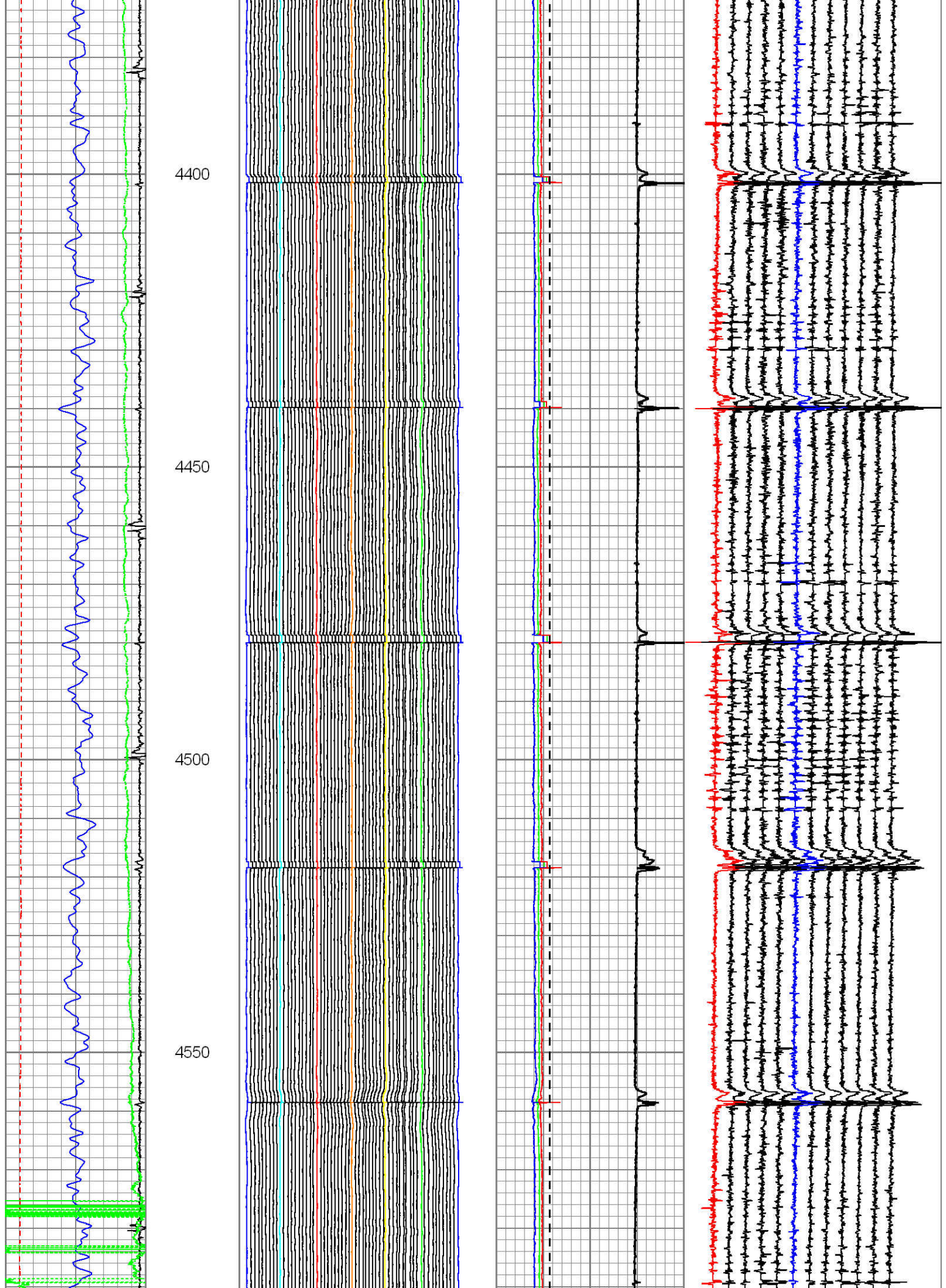




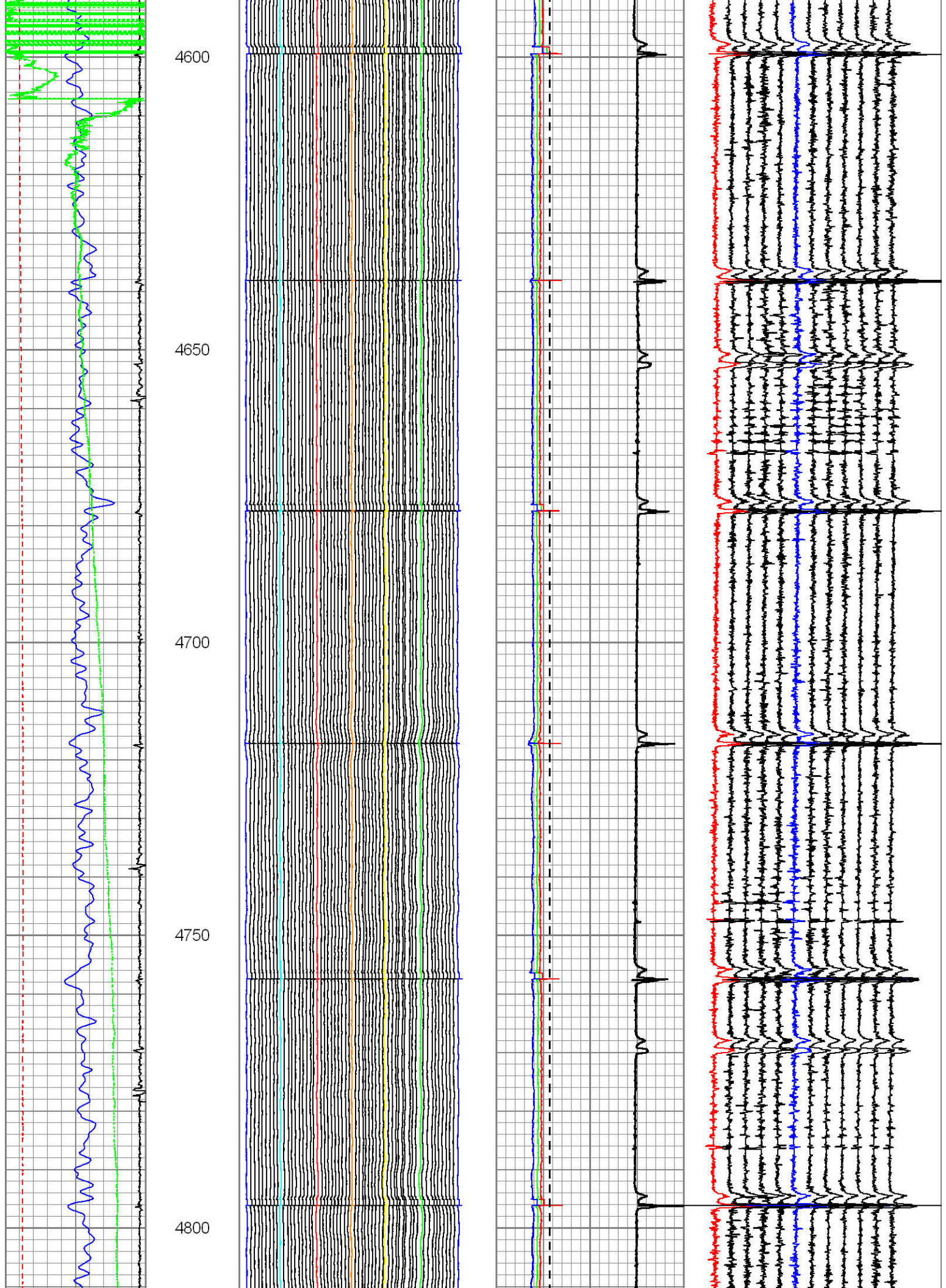




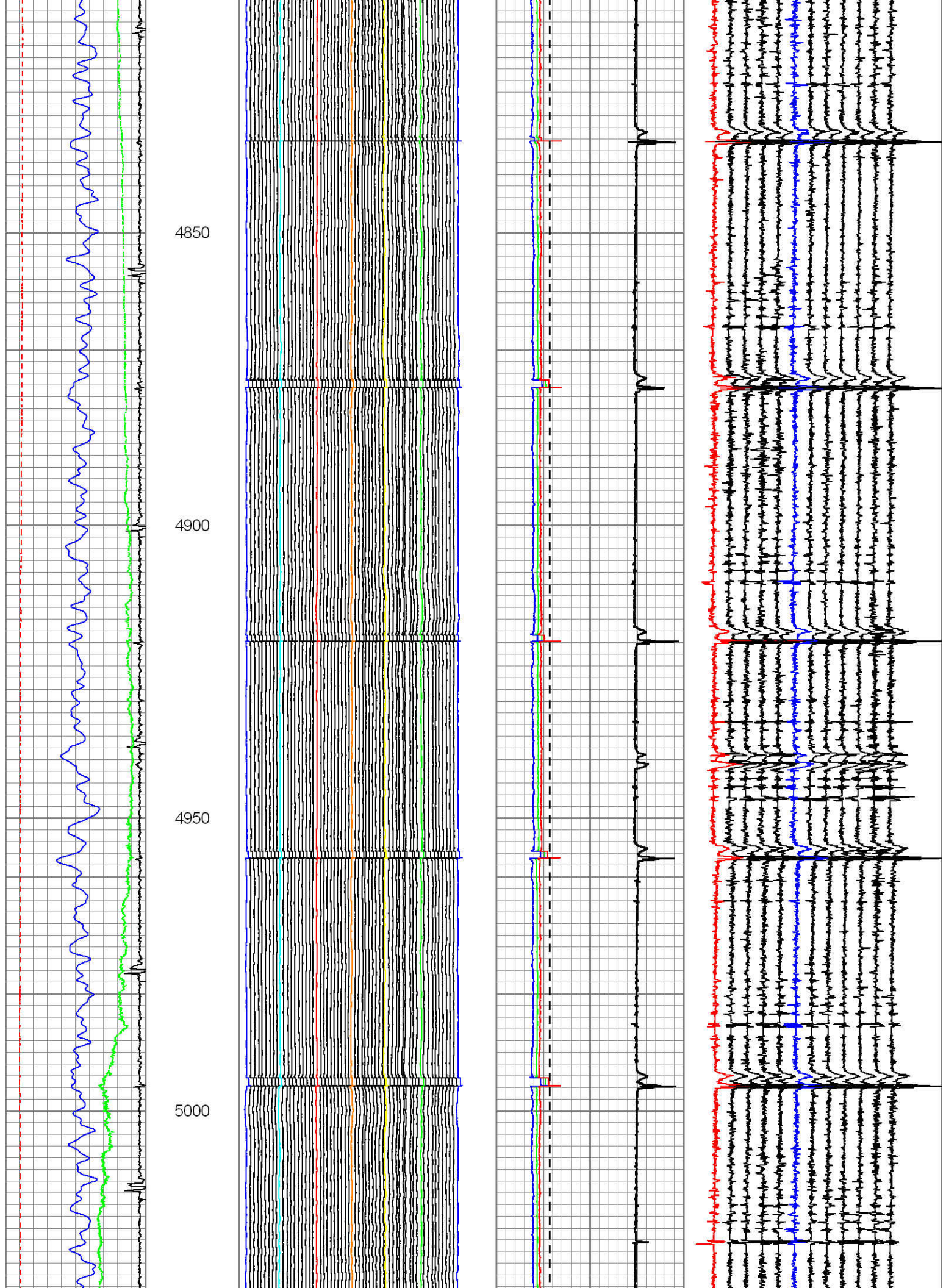




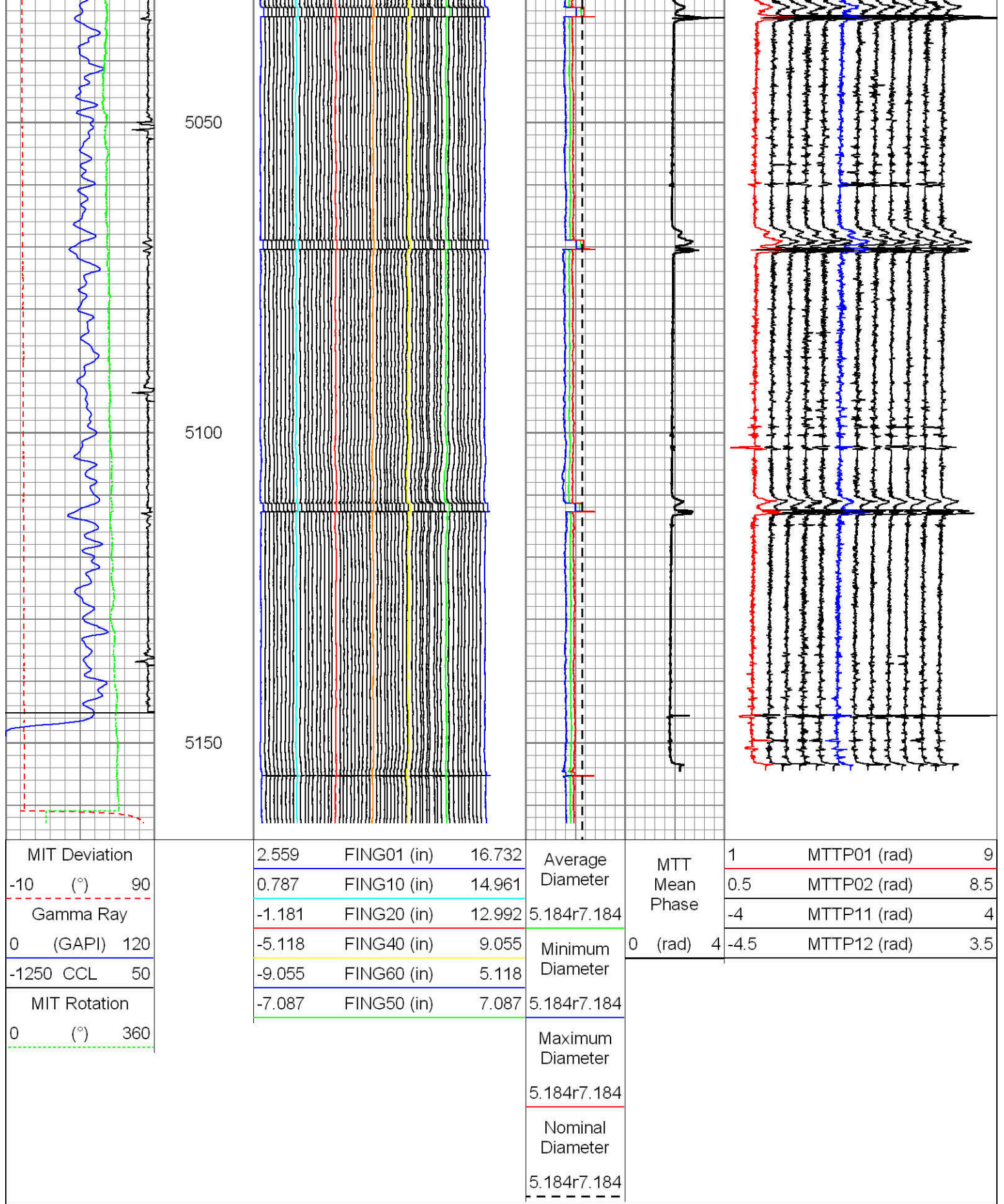












Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-001 (000001)	1.58	1.69	6.50



				XTC-001 (000001) Crossover Ultrawire Toolbus to Ultralink	1.50	1.69	0.50
CCL	20.14			CCL-015 (000001) Casing Collar Locator	1.54	1.69	9.00
GR	18.17			PGR-020 (000001) Production Gamma Ray	1.93	1.69	9.50
				PRC-034 (erty) Production Roller Centraliser (4 Arm)	2.91	1.69	13.00
MTT	10.93			MTT-002 (000001) Magnetic Thickness Tool	6.86	1.69	30.00
				PRC-034 (rtYu) Production Roller Centraliser (4 Arm)	2.91	1.69	13.00
MIT	2.50			MIT-029 (212855) Multifinger Imaging Tool (UW 60F)	5.00	4.00	90.00
TSTAMP	0.00						
ITEMPX	0.00						
HVOLTX	0.00						
Dataset: whiting_razor 22-2712h.db: field/well/run1/main.1 Total Length: 23.76 ft Total Weight: 173.00 lb O.D. 4.00 in							



