



# Weatherford®

## PND-S CASED HOLE TRIPLE COMBO

Company	WEXPRO COMPANY		
Well	CARL ALLEN # 27		
Field	POWDER WASH		
County	MOFFAT	State	COLORADO
Country	USA		
Location	368' FNL & 1516' FWL NE/NW		
Section	33	Township	12N
		Range	97W
Permanent Datum	G.L.	Elevation	6575.4'
Log Measured From	K.B.		
Drilling Meas From	K.B.		

PLOT TYPE: PLOT TYPE: PND-S \*CASED HOLE TRIPLE COMBO LOG\*

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### REMARKS:

Project: 142871  
Company: WEXPRO COMPANY  
Well: CARL ALLEN #27  
Field: POWDER WASH  
County: MOFFAT  
State: COLORADO  
Country: USA  
Log Date: 22-FEB-2008

No Open Hole logs recorded on this well.  
Logs run on wireline depths.  
PND-S is on depth with Weatherford CBL-VDL Logged 22-Feb-2008.

Porosity data computed from (PND-S, AI) Neutron/Density data.  
Matrix model = AIPN (ss), AIPD (2.65)  
Resistivity RPNDS recalculated on April 14 2008 using newer model.

Coal flag activated when:

SIGC > 15 cu  
AIPN > 0.20 dec(ss)  
HICFF > 9.0  
GRP < 45 gapi

Well SHUT-IN while logging.  
Reported Hole Deviation: N/A  
Reported Borehole Chlorides: N/A mg/L  
Reported Formation Chlorides: N/A mg/L  
Reported Production: N/A

NOTE: PND-S Inelastic Porosity and Saturation estimates will be affected adversely by inconsistent cement, multiple casing/tubing strings and/or large borehole sections of the well. Pulsed neutron measurements in recently-drilled wells will be subject to the effects of drilling fluid invasion and must be considered to be of a relative nature.

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CURVE DESCRIPTIONS:

CURVE LEGEND:

CSG = Graphical Representation of 4.50" Casing.  
TENS = Line Tension  
CCL = Collar Locator, from (PND-S) data.  
GRP = Gamma Ray, from (PND-S) data.  
CCL = Collar Locator, from (PND-S) data.  
BGN = Near Background Counts, from (PND-S) data.  
BGF = Far Background Counts, from (PND-S) data.  
NEAR = Near Detector Counts, from (PND-S) data.  
FAR = Far Detector Counts, from (PND-S) data.  
RATI = Formation Ratio, from (PND-S) data.  
RBNF = Ratio of (Near/Far) Bulk Inelastic data  
SIGC = Formation Sigma, from (PND-S) data.  
DELI = Inelastic Data Quality Indicator, from (PND-S) Inelastic data.  
AIPN = Inelastic (Neutron Type) Porosity, from (PND-S) data.  
AIPD = Inelastic (Density Type) Porosity, from (PND-S) data.  
RPNDS = Psuedo-Resitivity, from (PND-S) Inelastic data  
HICFF = Hydrogen Index from (PND-S) Inelastic Spectrometry  
COAL = Coal flag when conditions met  
IRHOB = Bulk Density from PND-S Logs

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BOREHOLE ENVIRONMENT:

BOREHOLE RECORD:

Size Top - Bottom  
NA

CASING RECORD:

Size Top - Bottom  
9.63" Surface - 483.7'  
4.50" Surface - 8808.1'

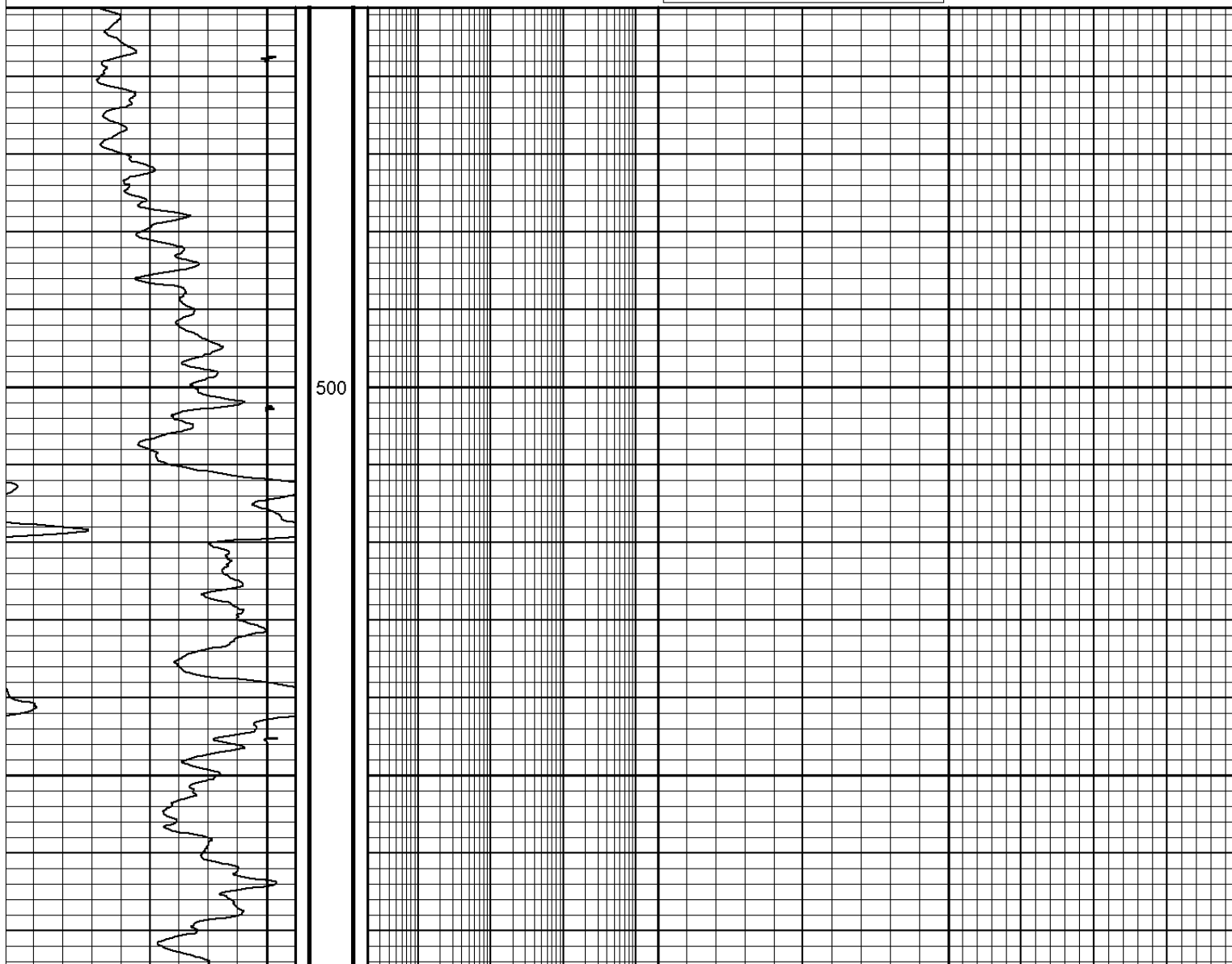
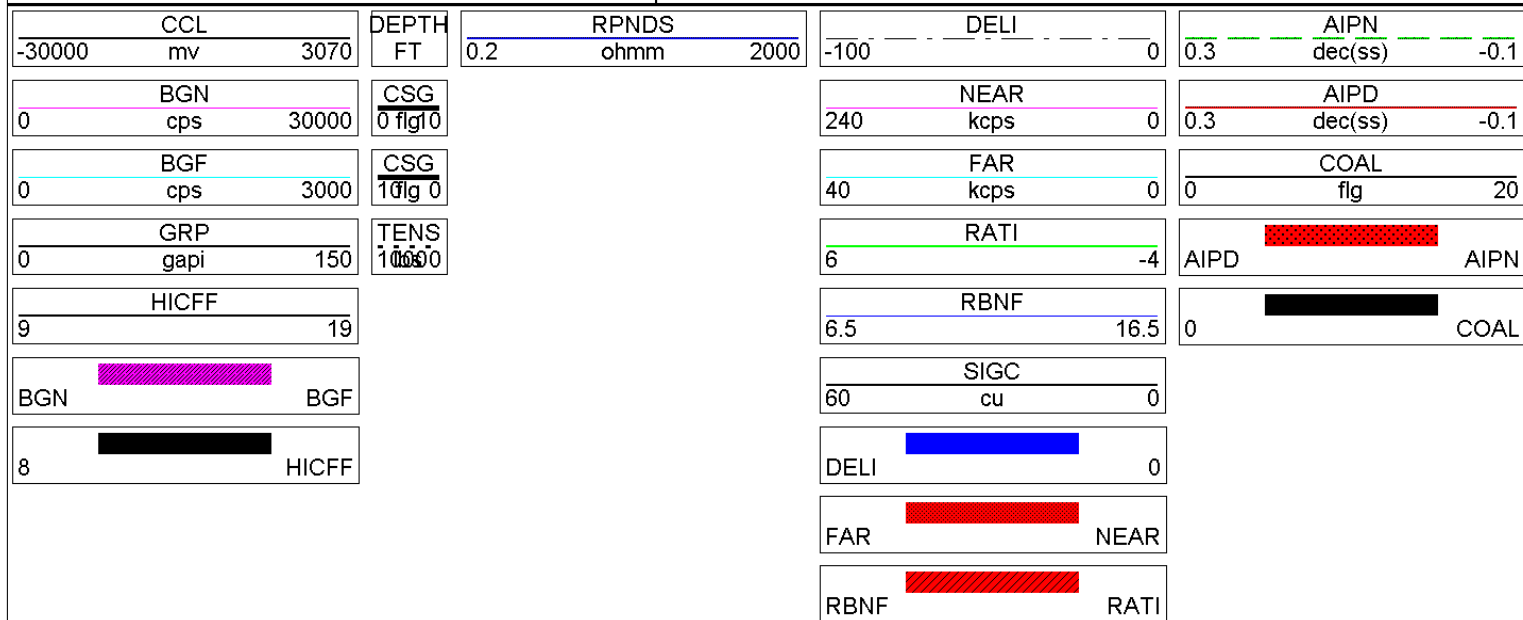
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ANALYST: Nilesh Kadam  
PROGRAM: p4bbhss4.wts; p4rocksh.wts  
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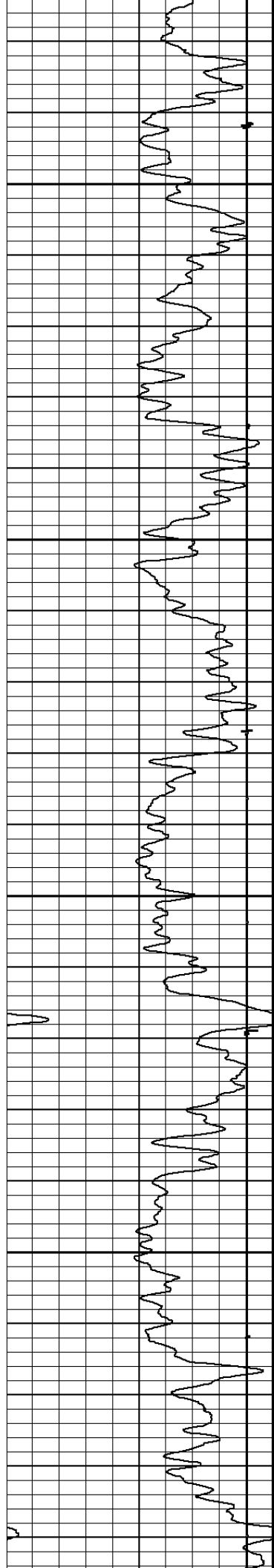
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WEATHERFORD INTERNATIONAL INC.

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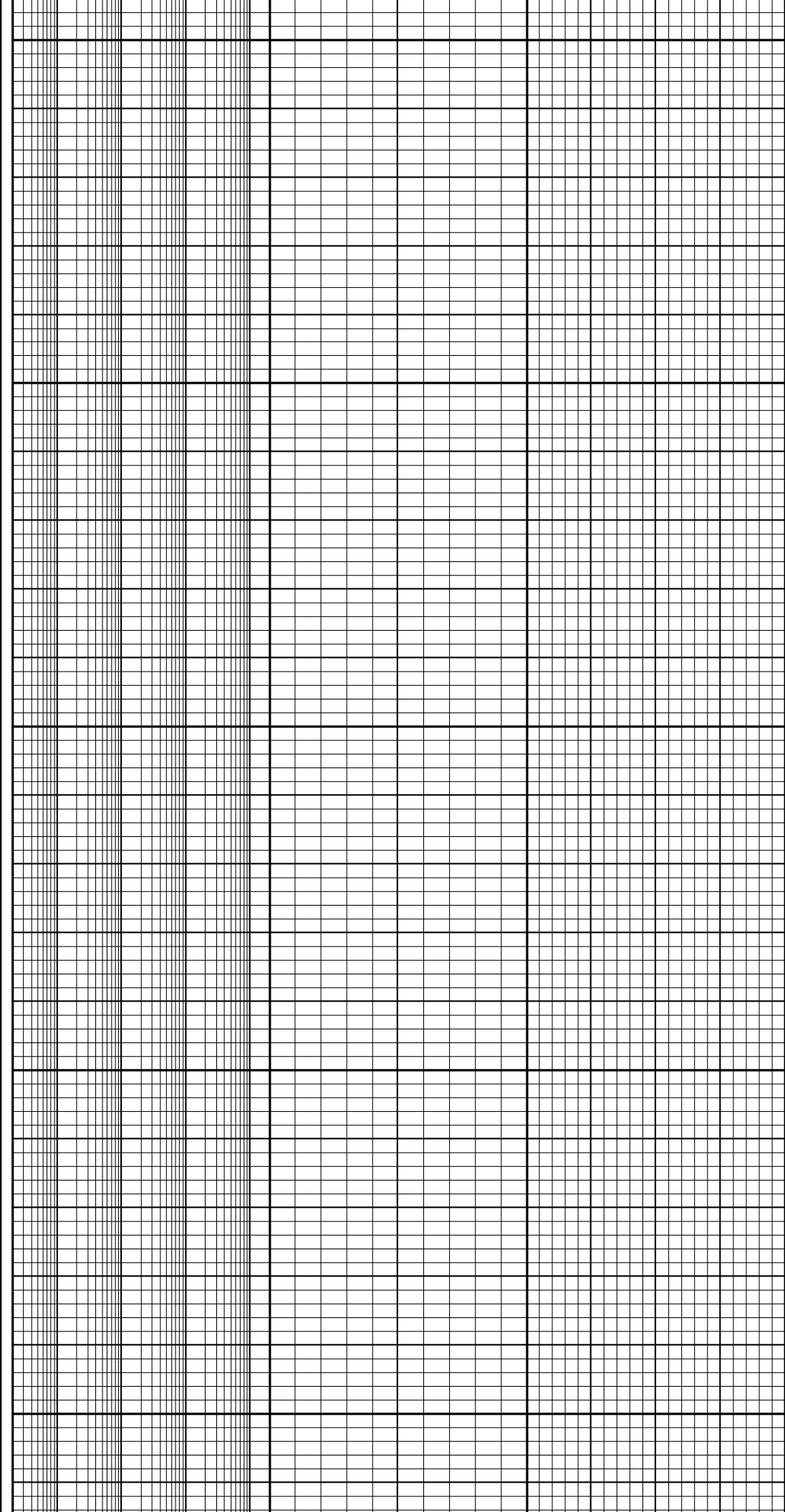
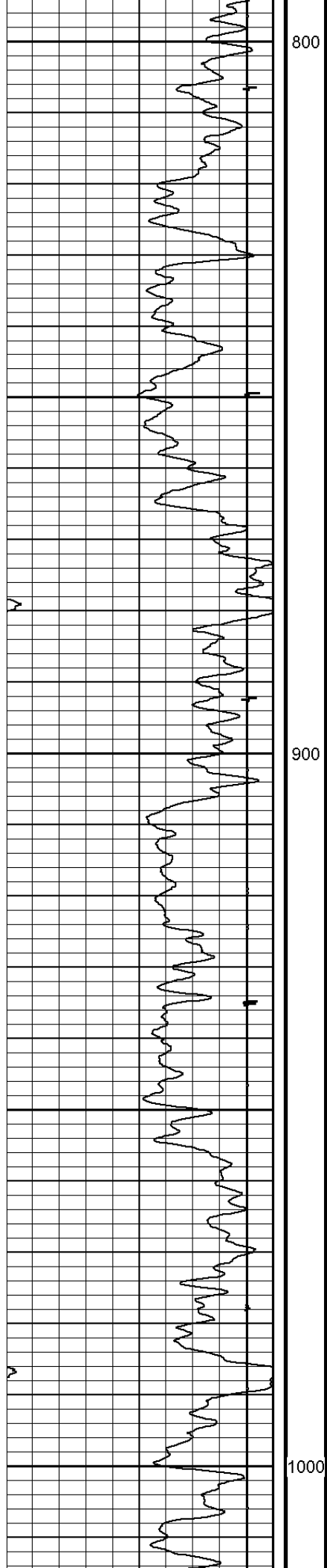
CARL ALLEN # 27  
14 Apr 2008 @ 15:10  
DEPTH (FT)  
Interval: 451.00 to 8786.00  
Depth Scale Ratio: 1/240

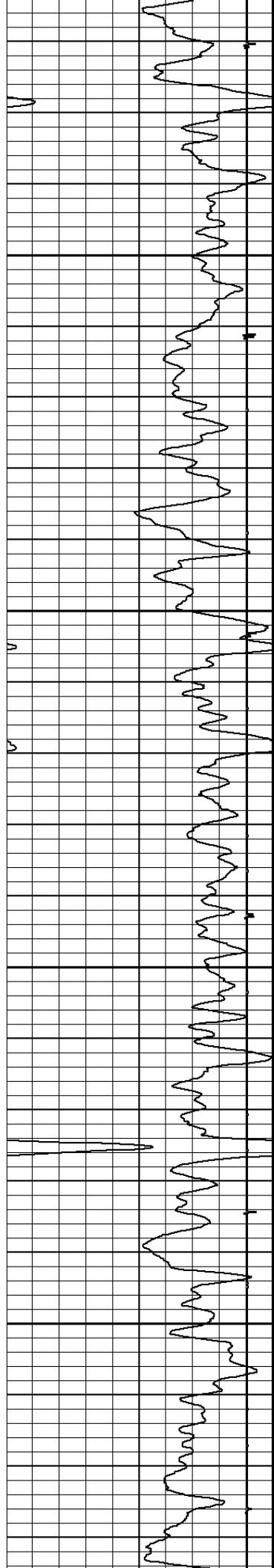




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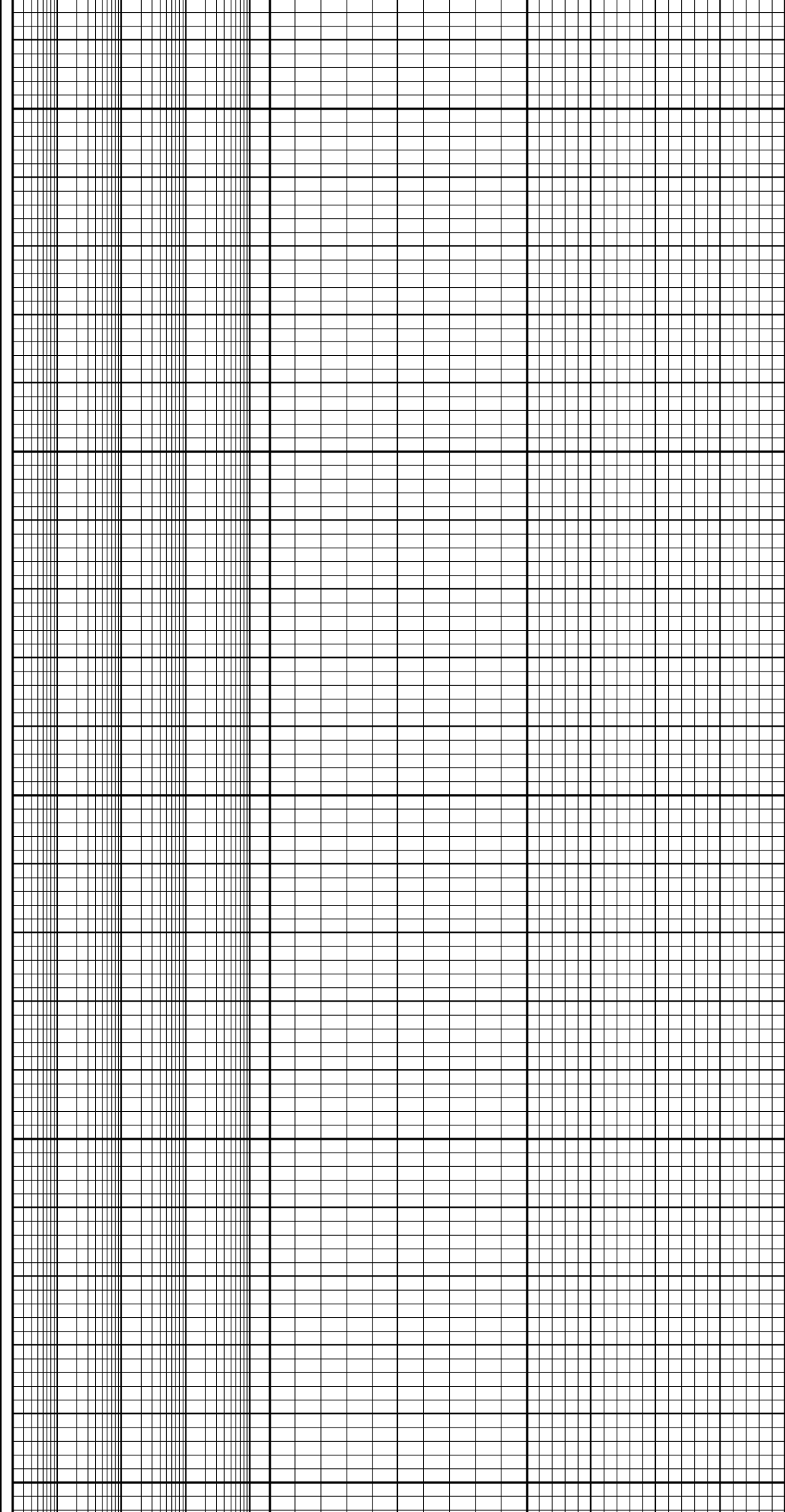
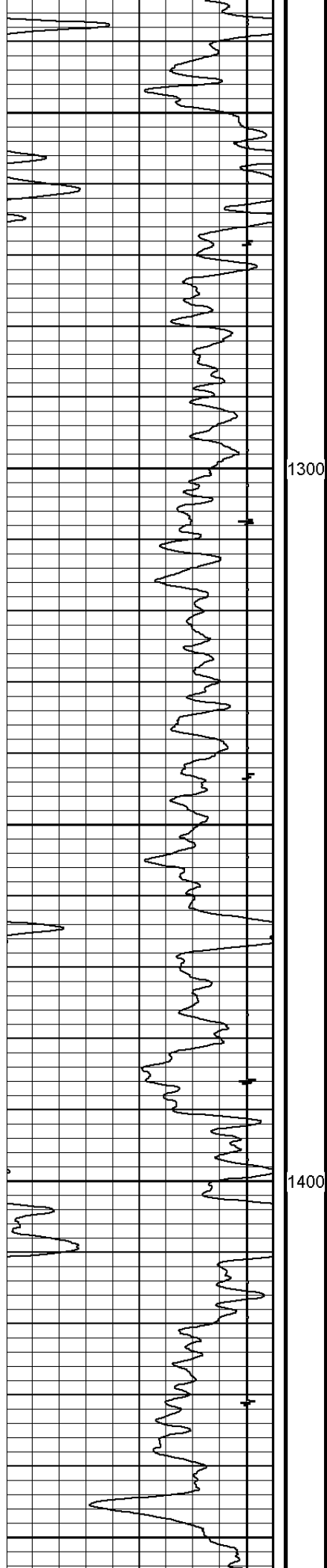
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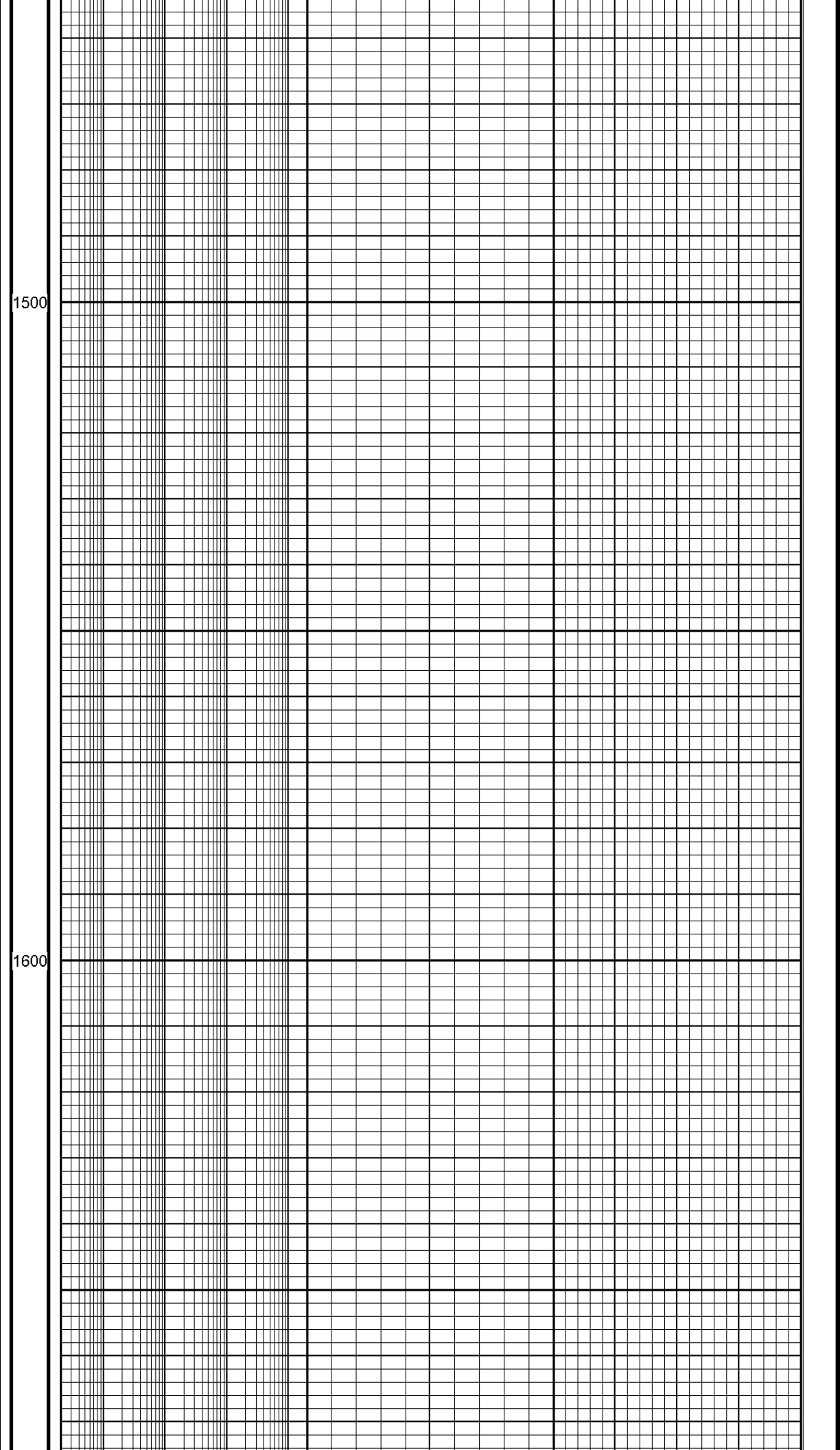
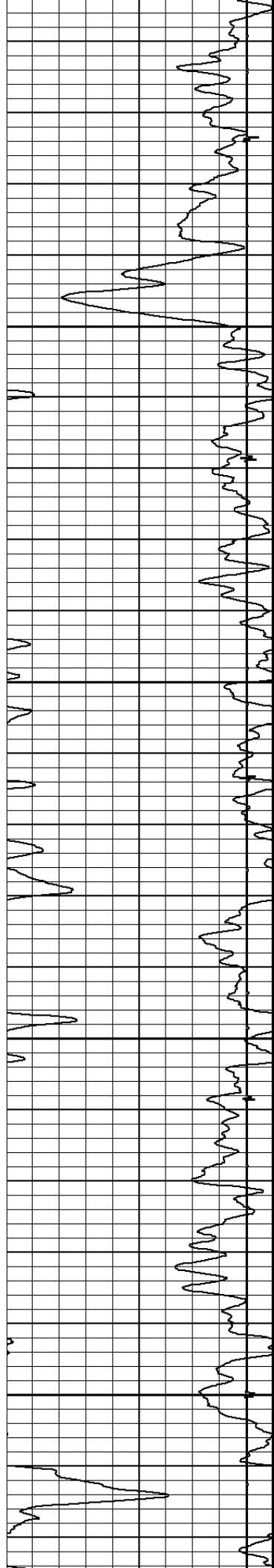




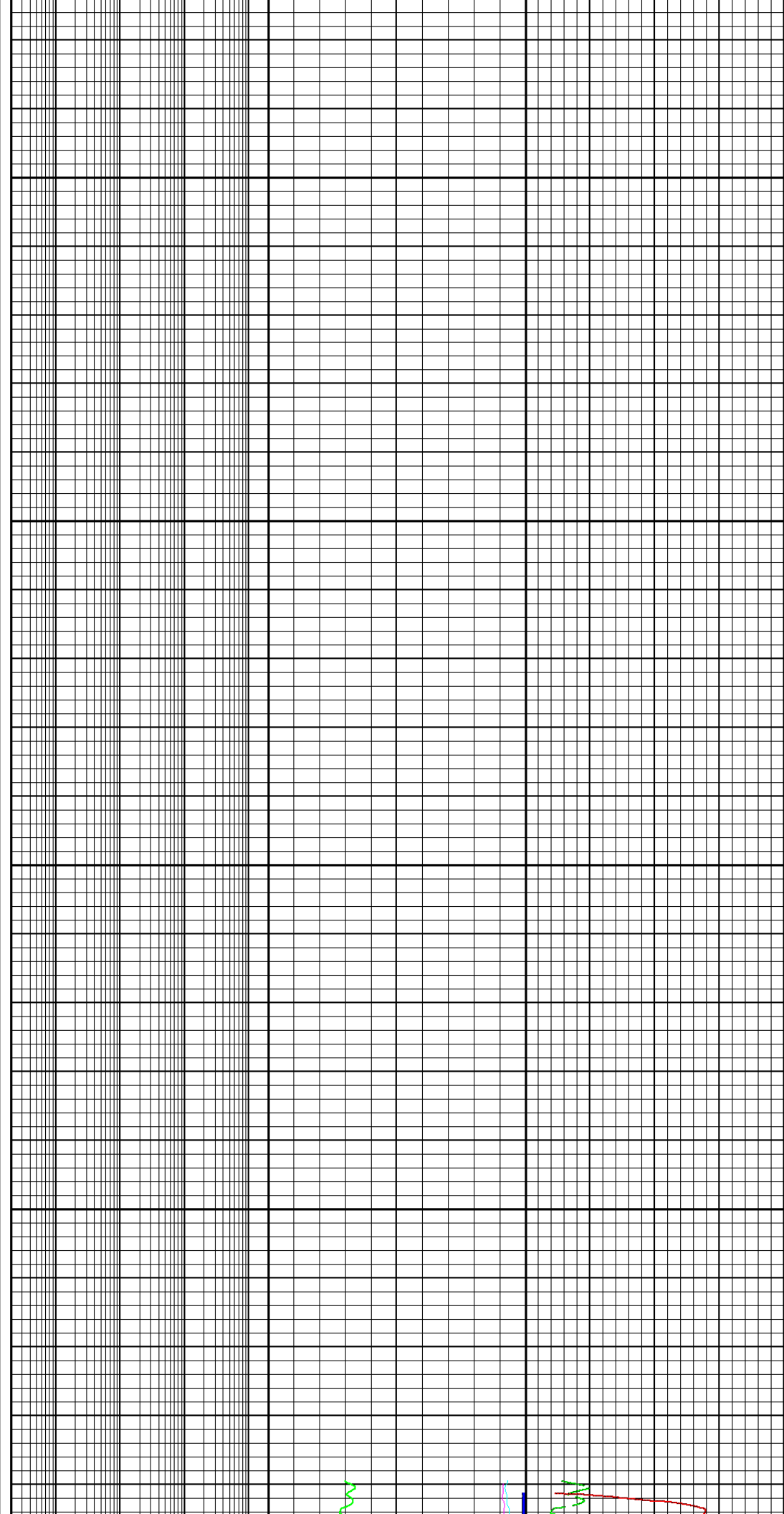
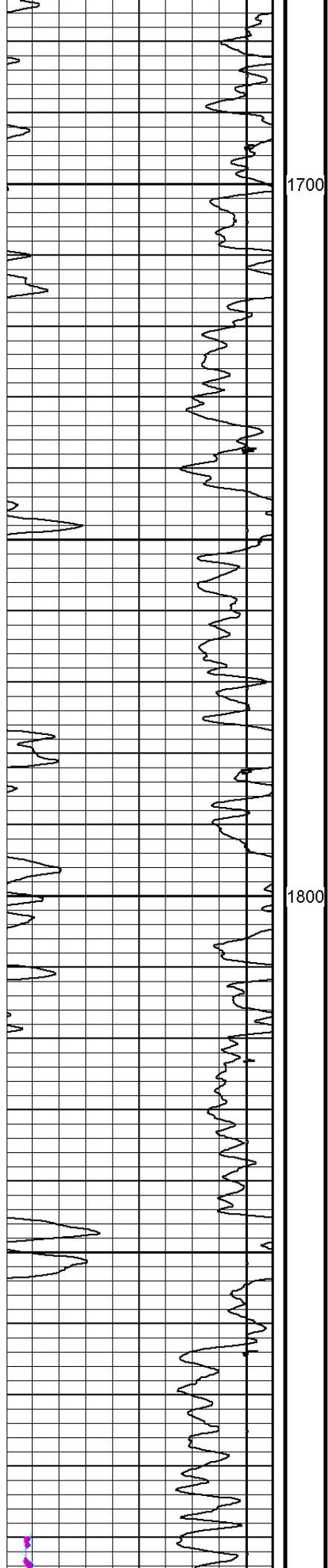
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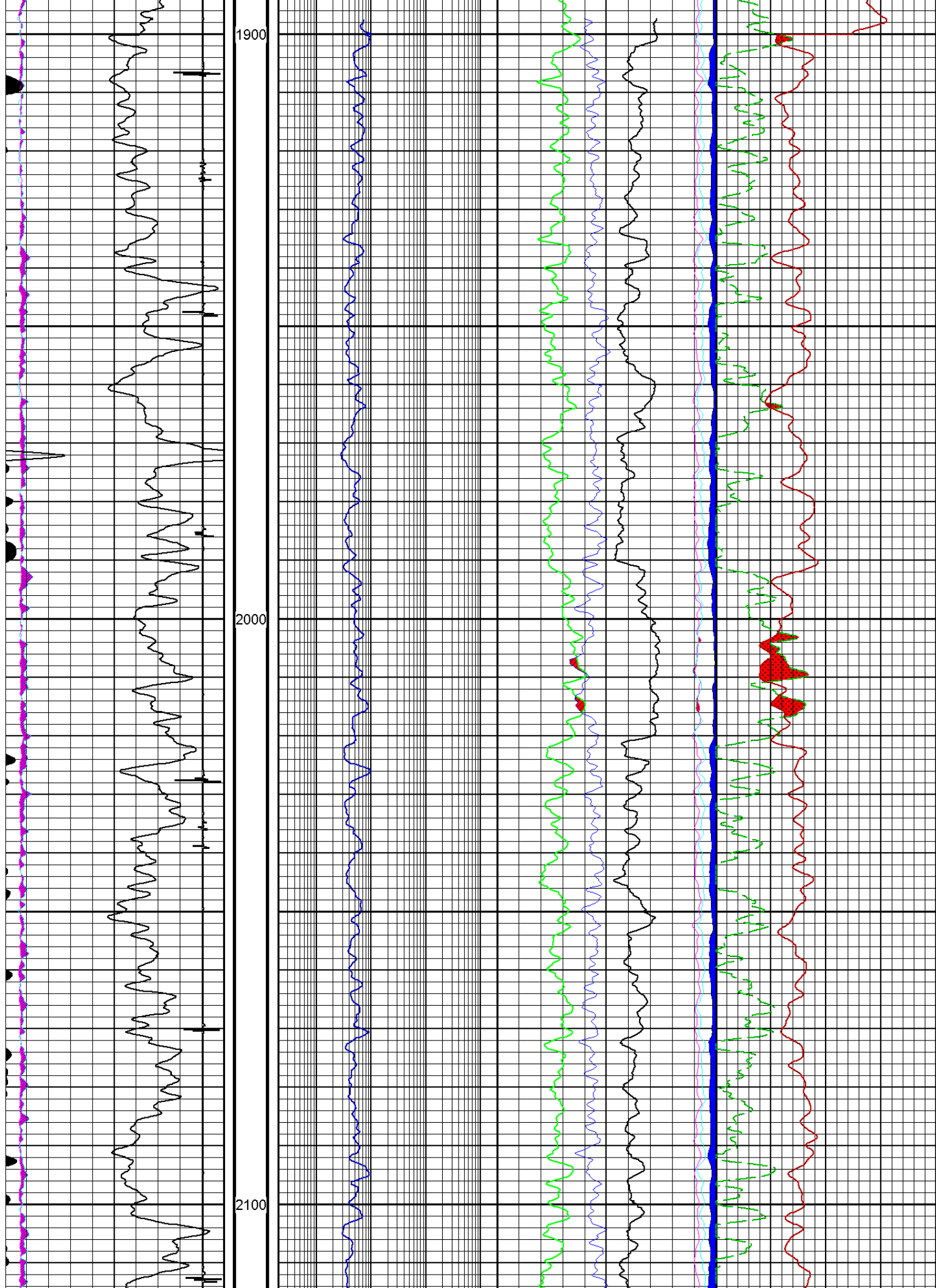
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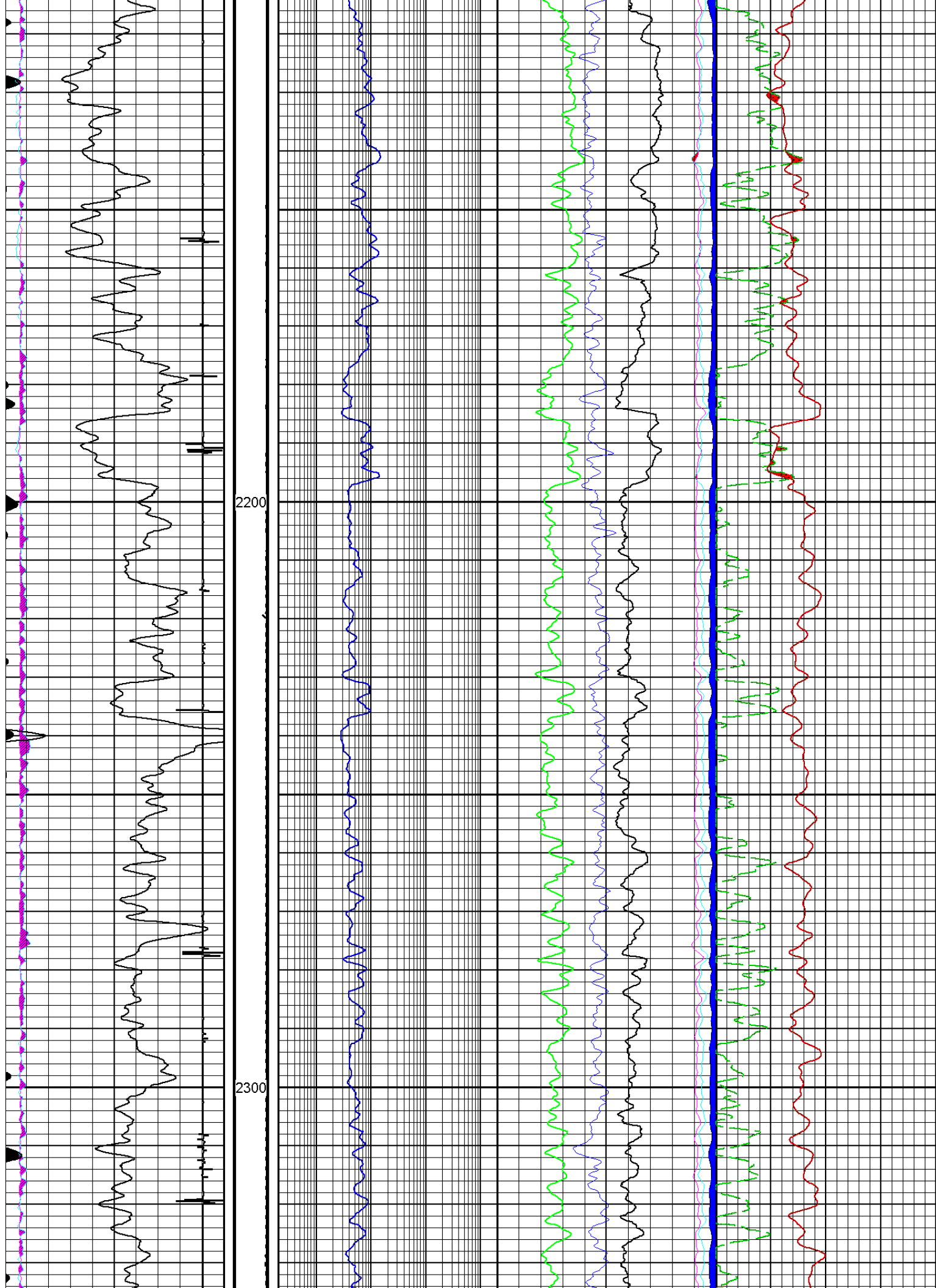


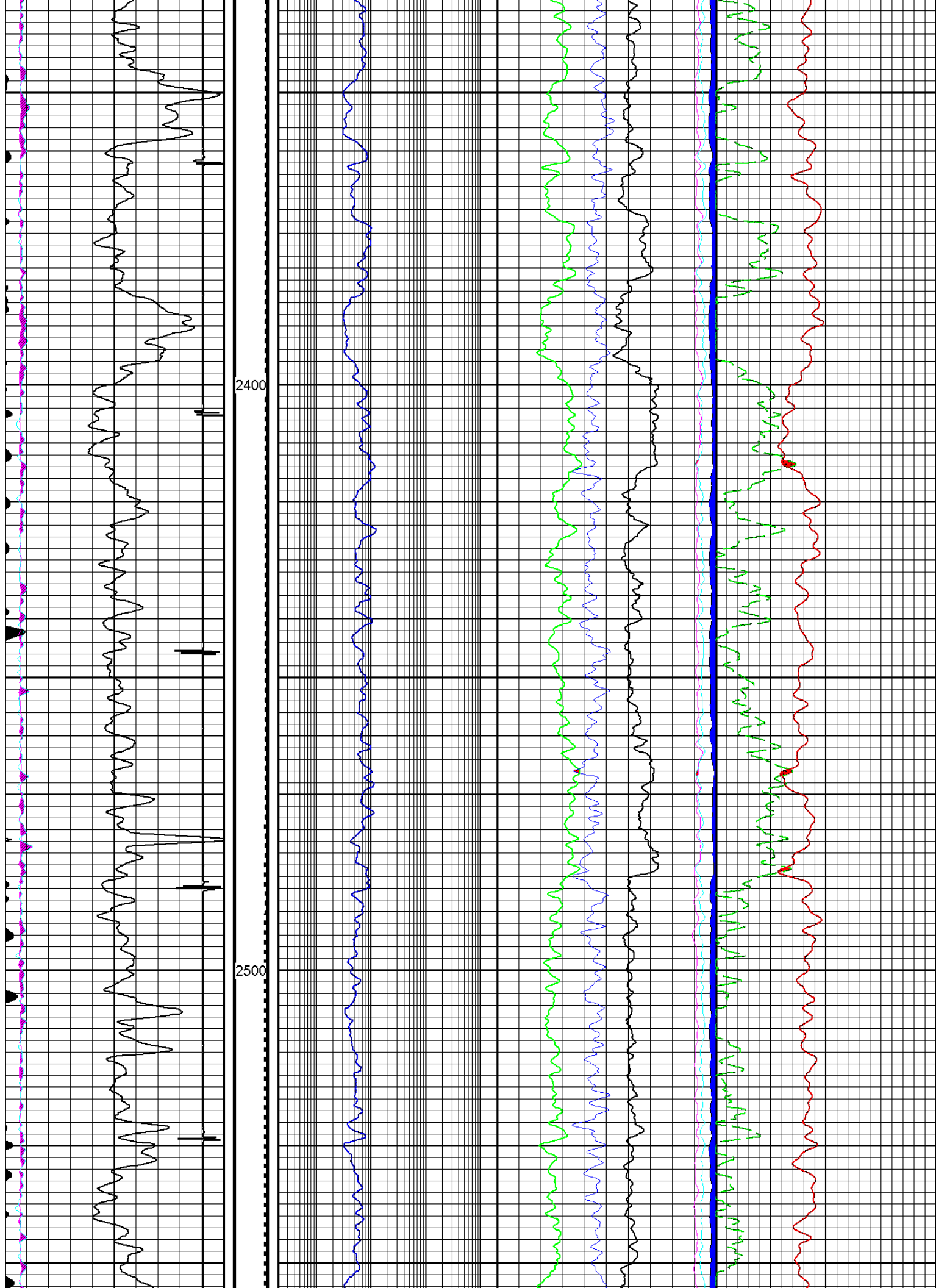


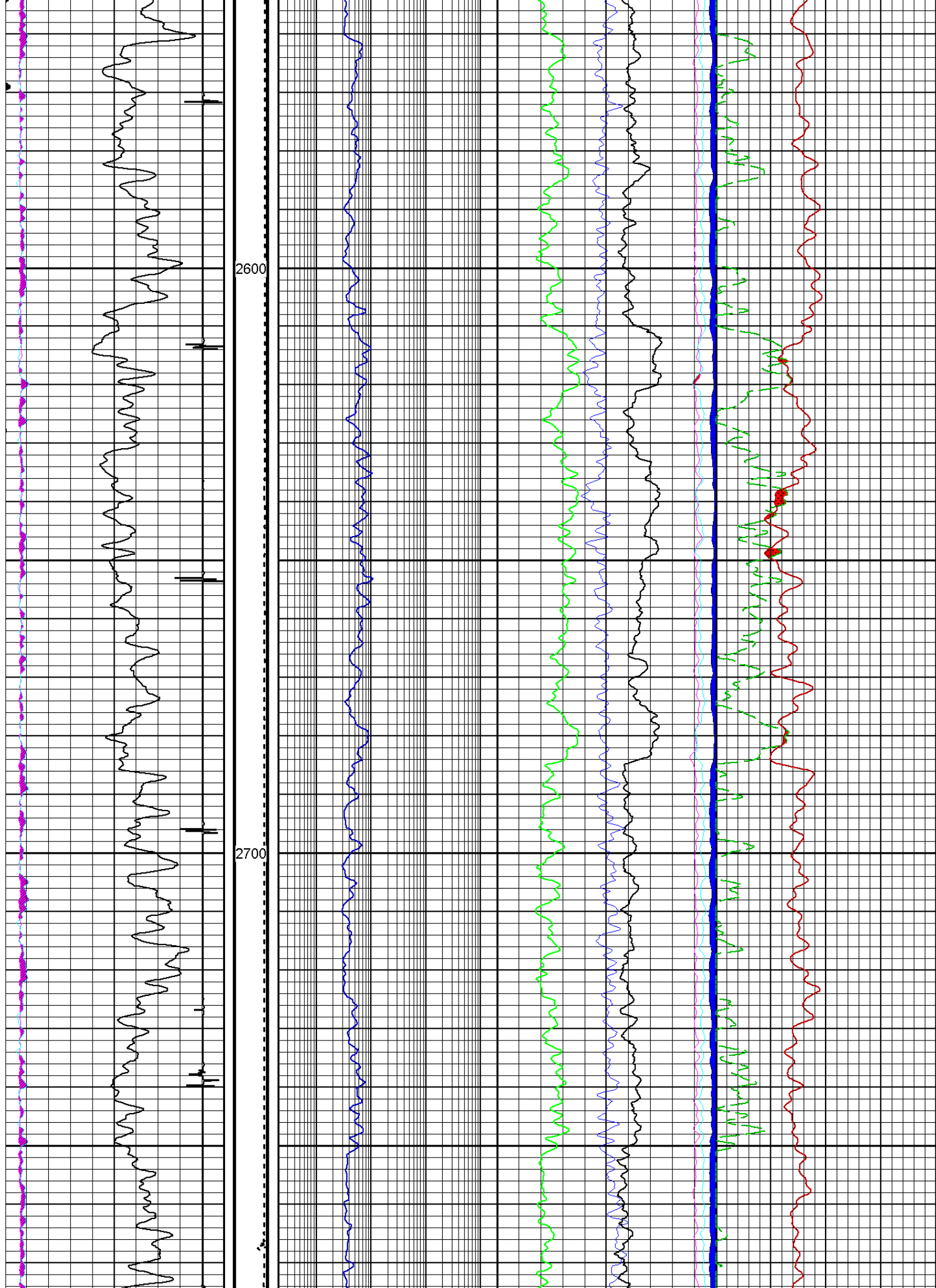


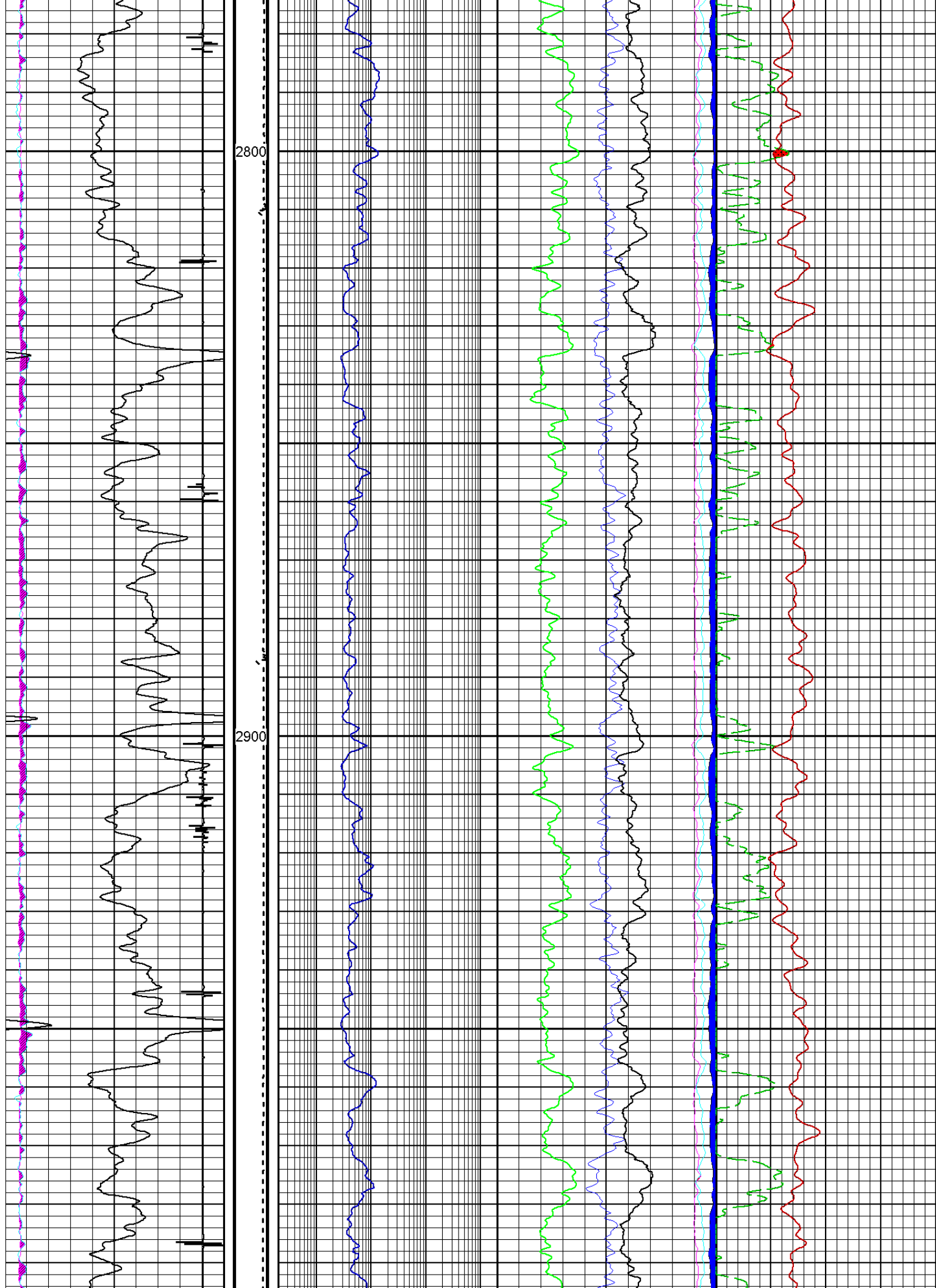


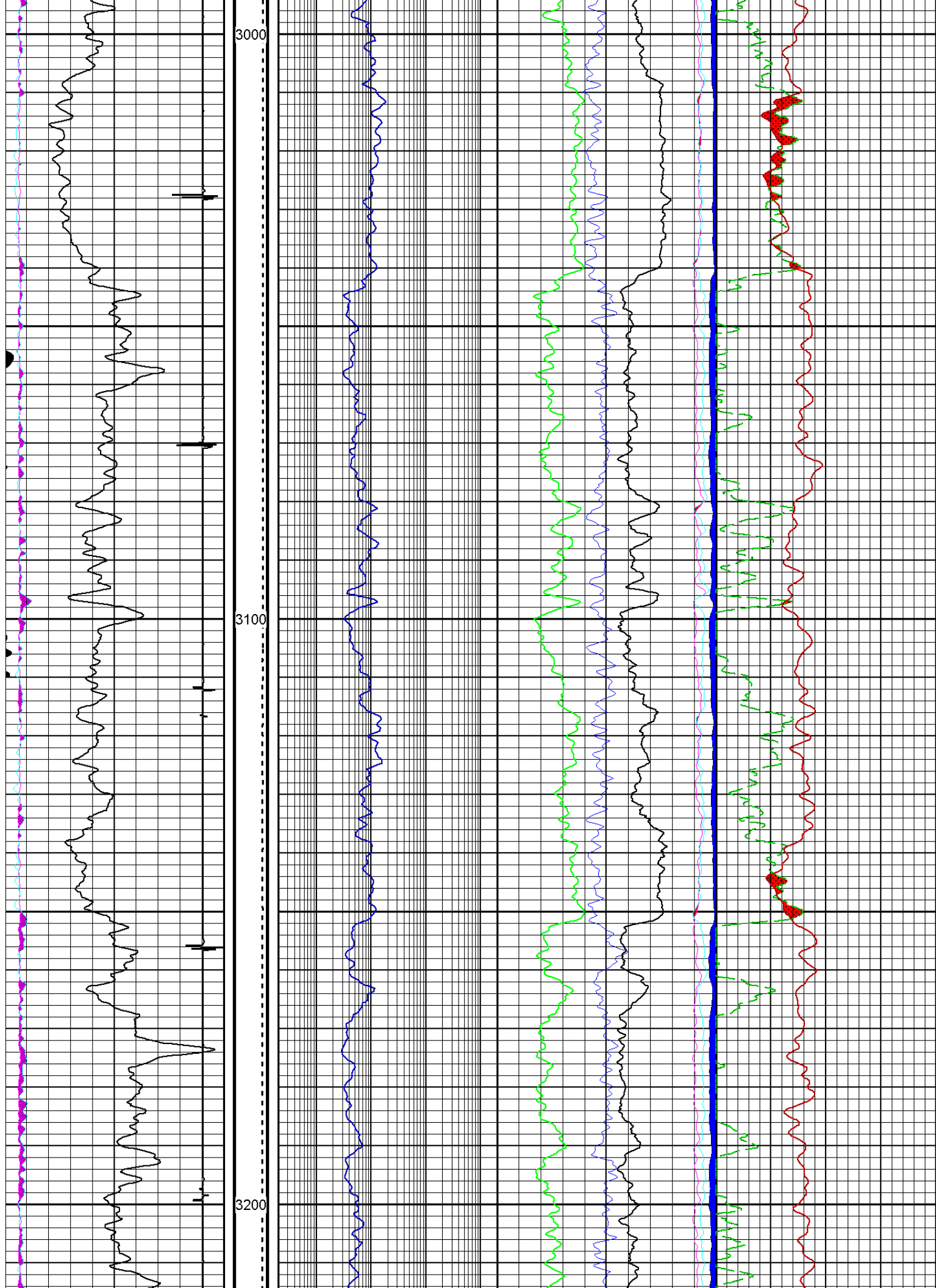


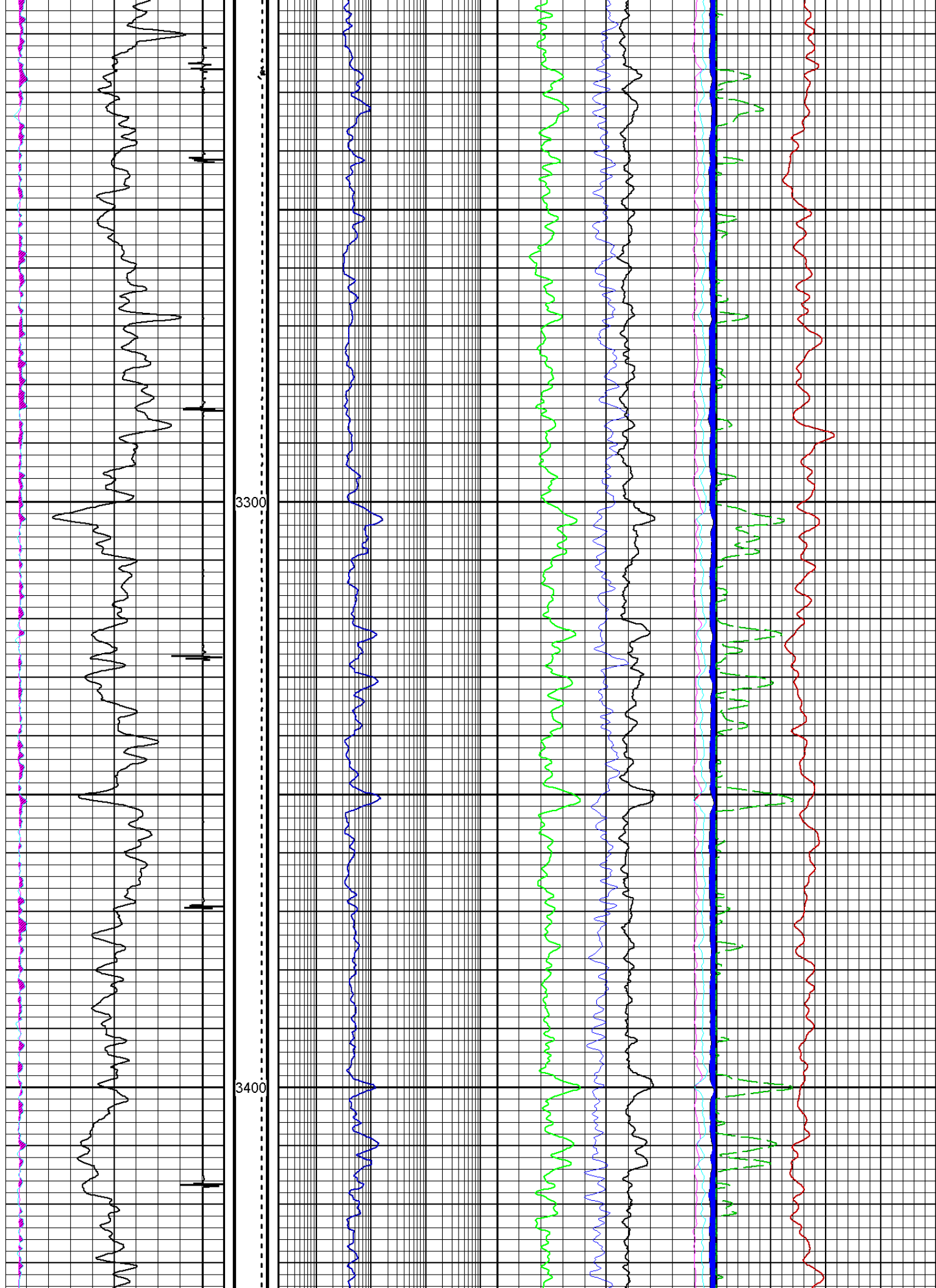




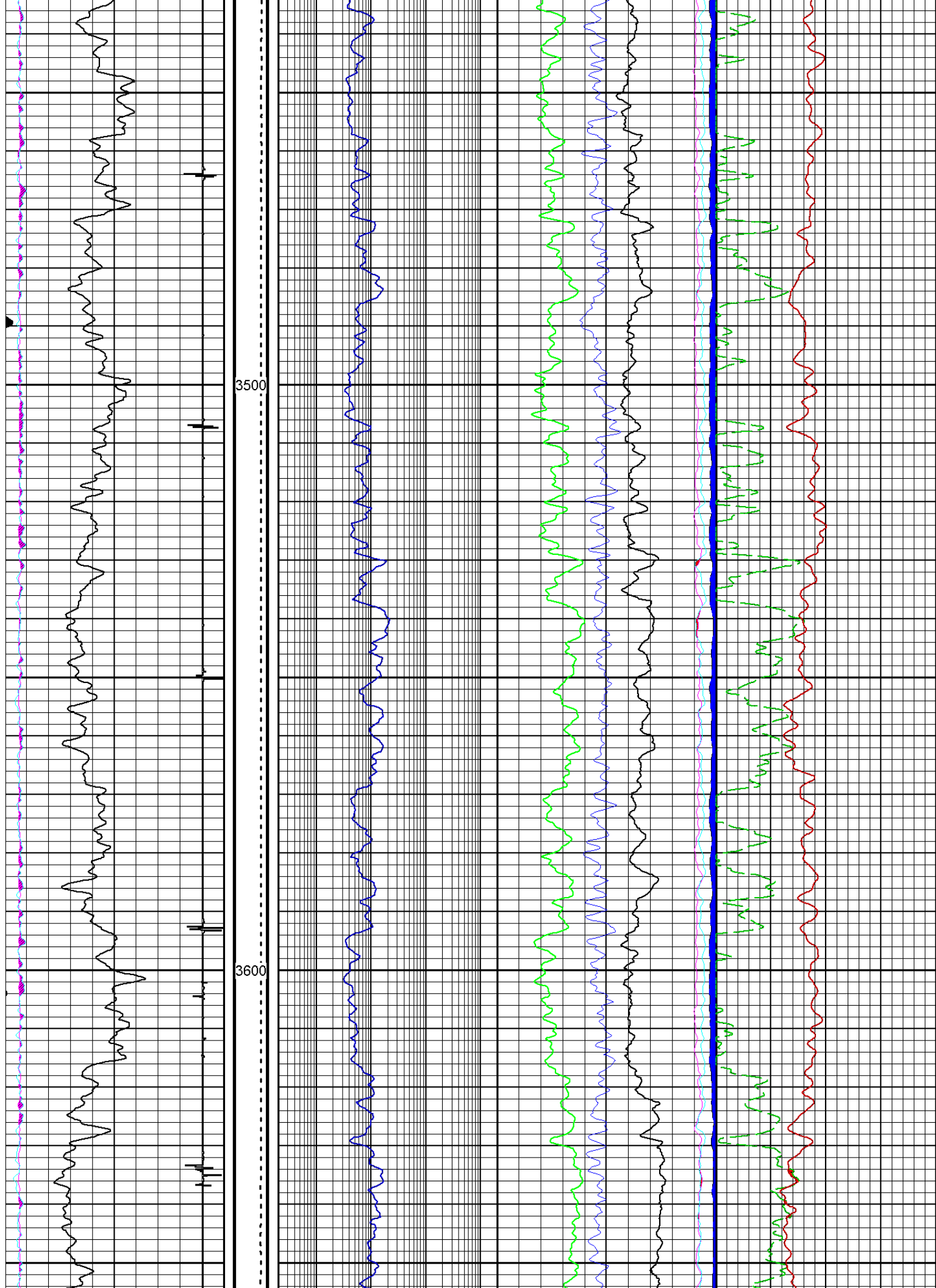


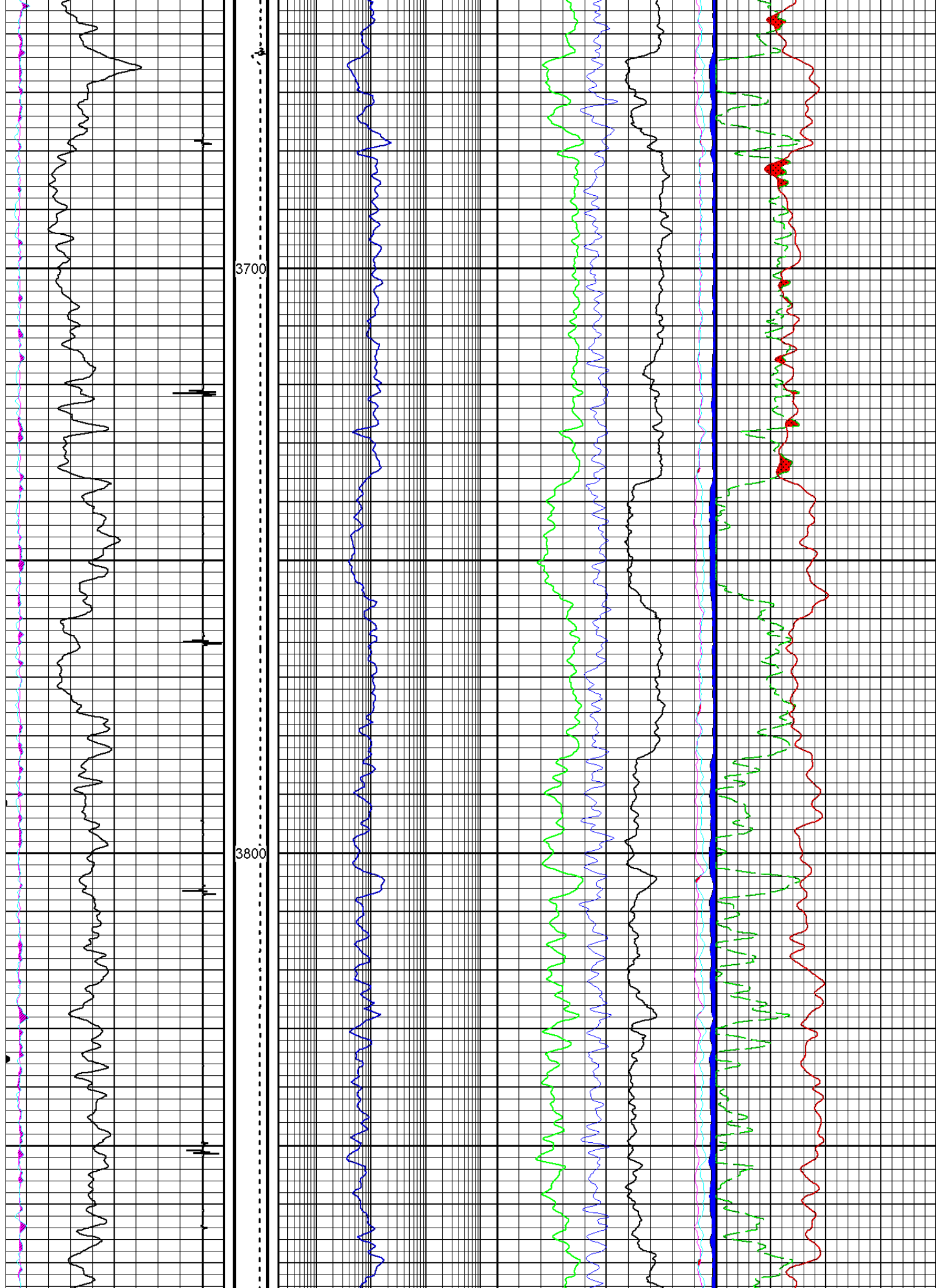


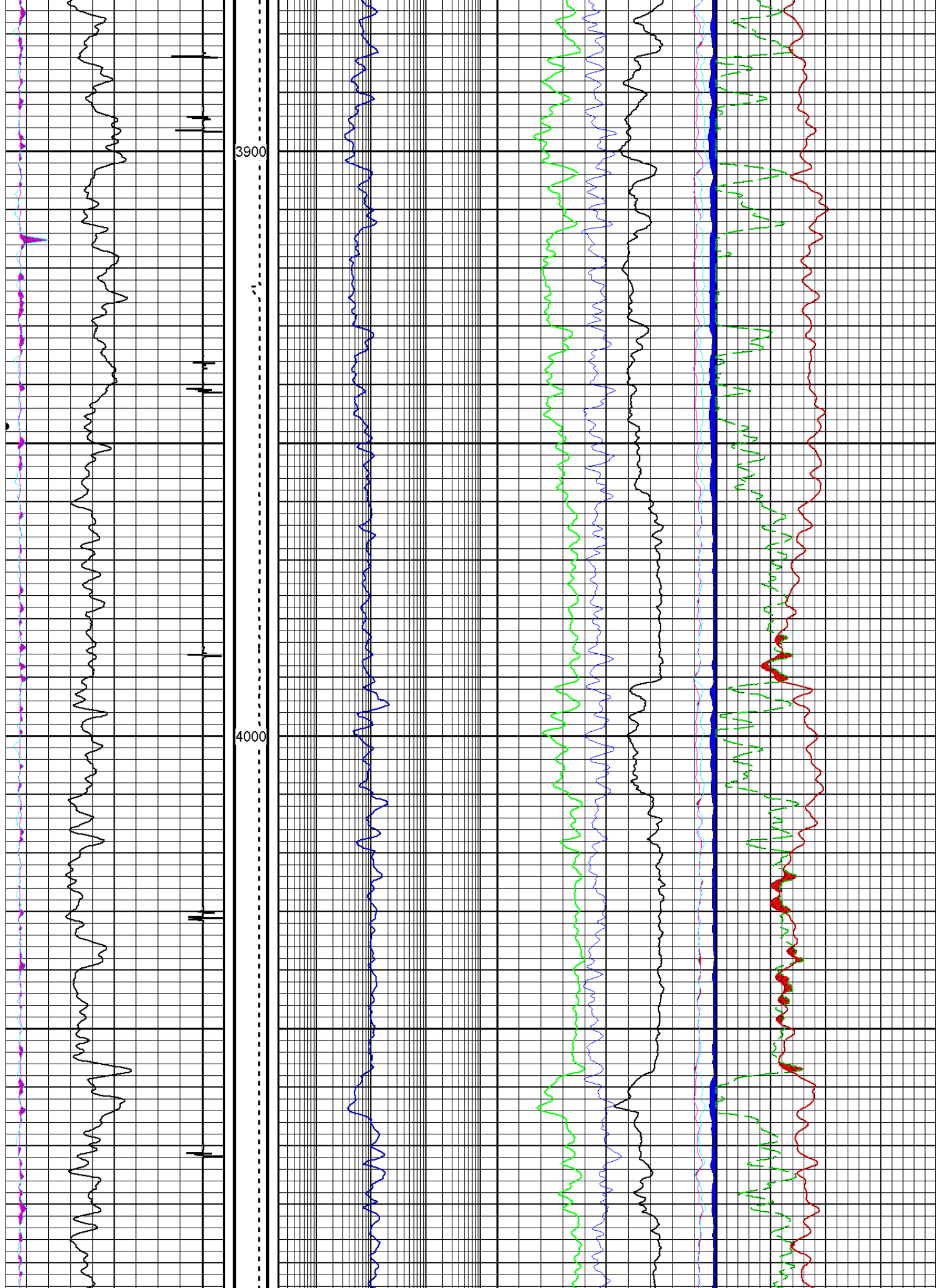


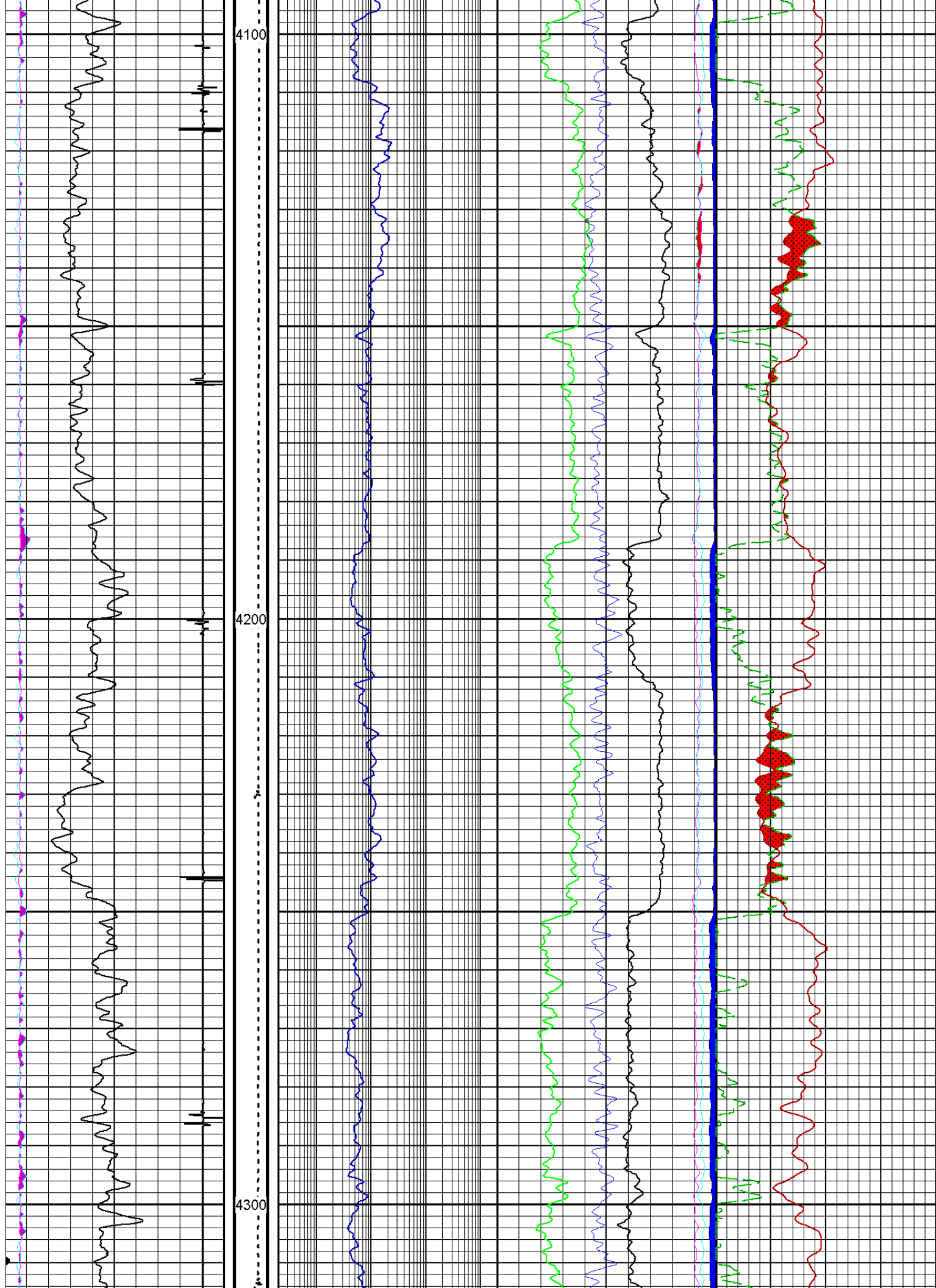


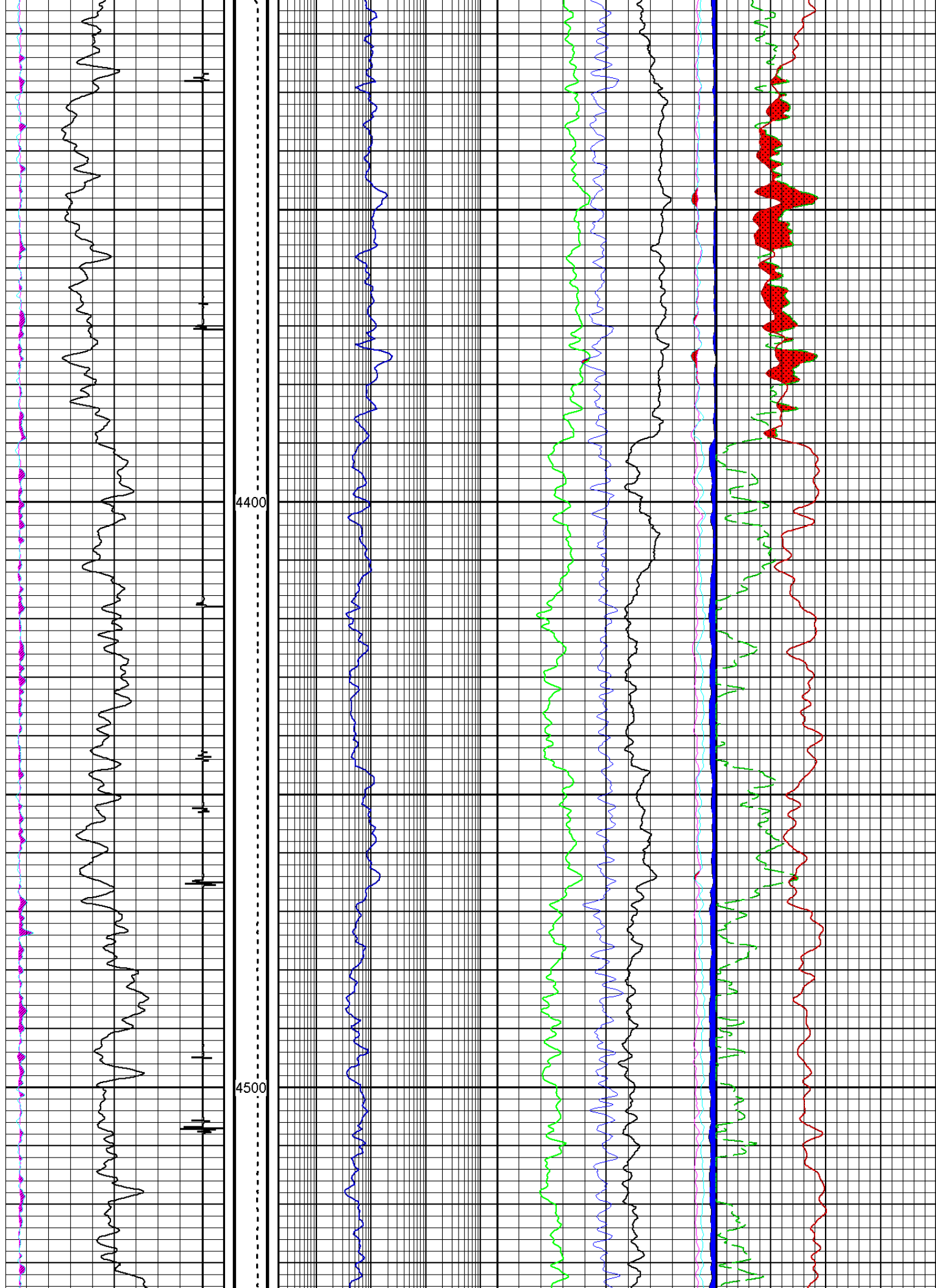


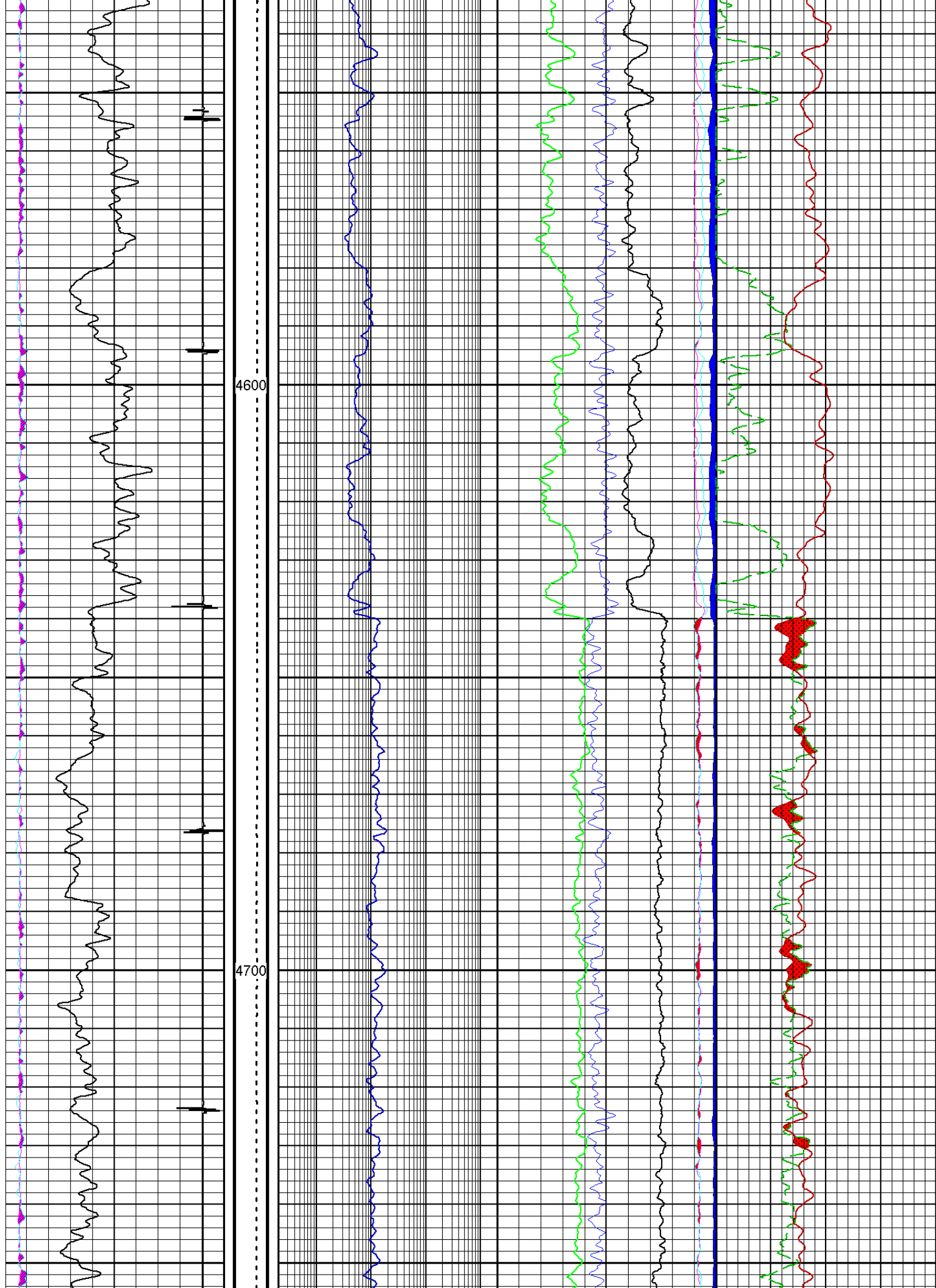


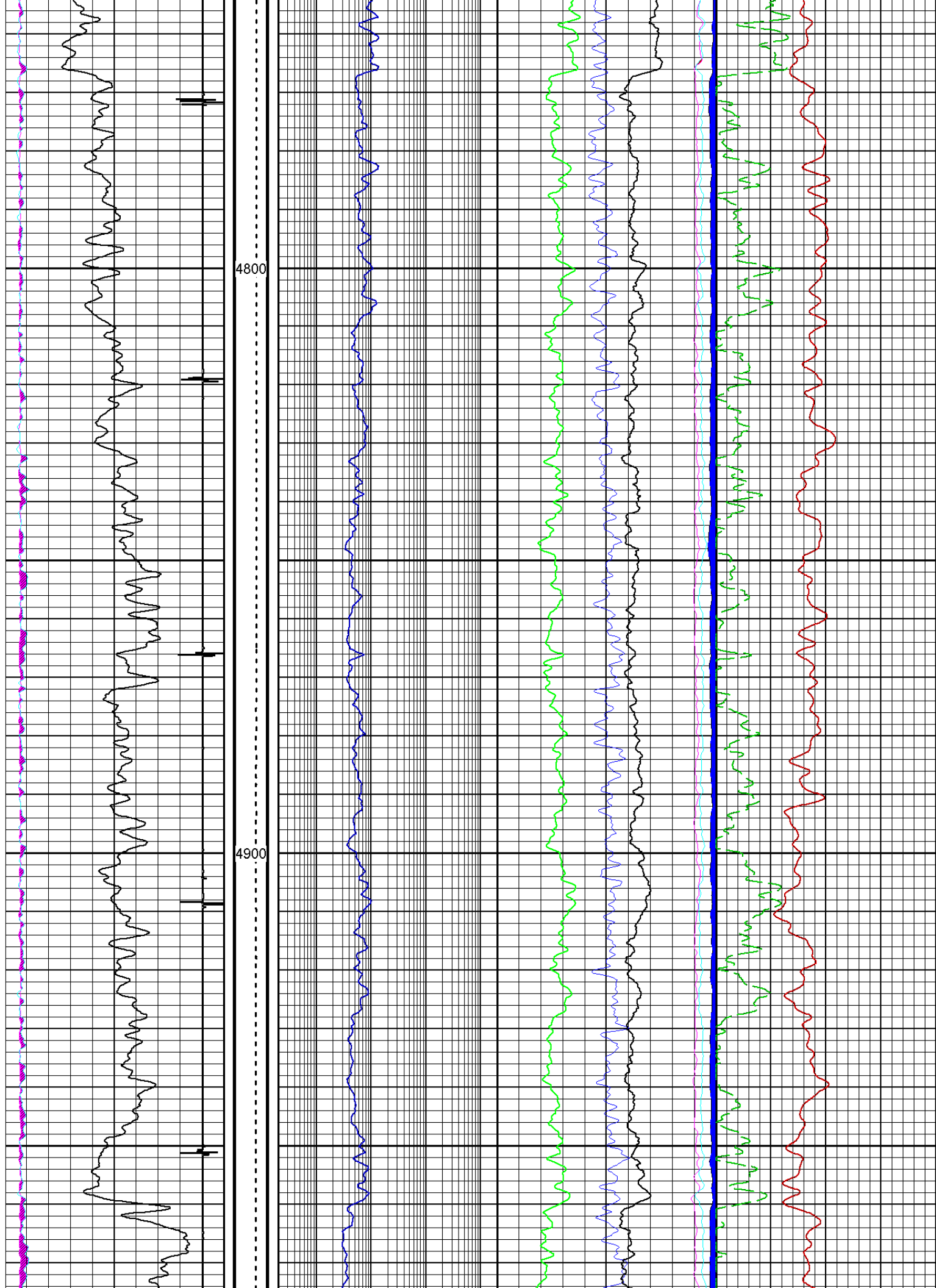




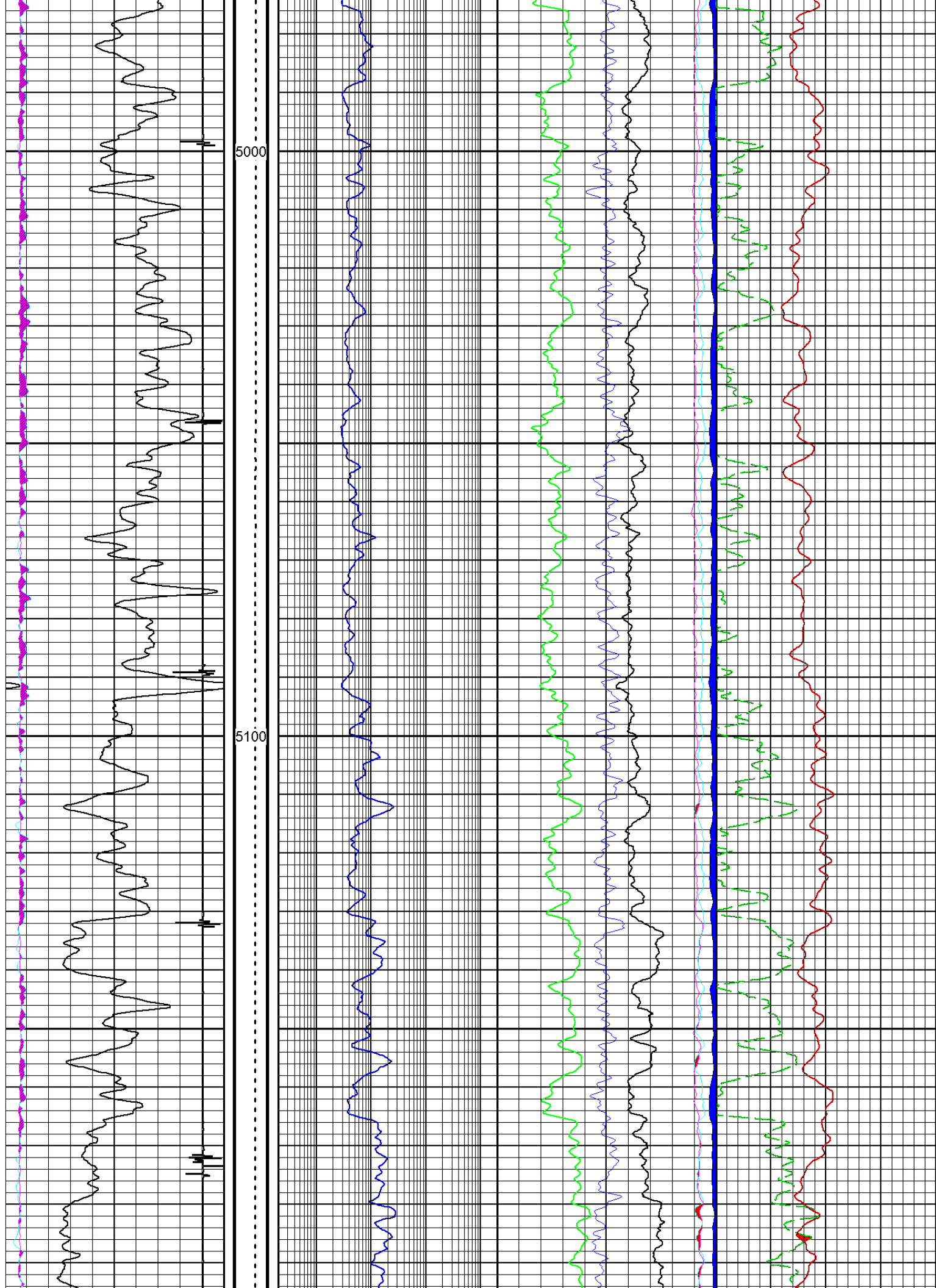




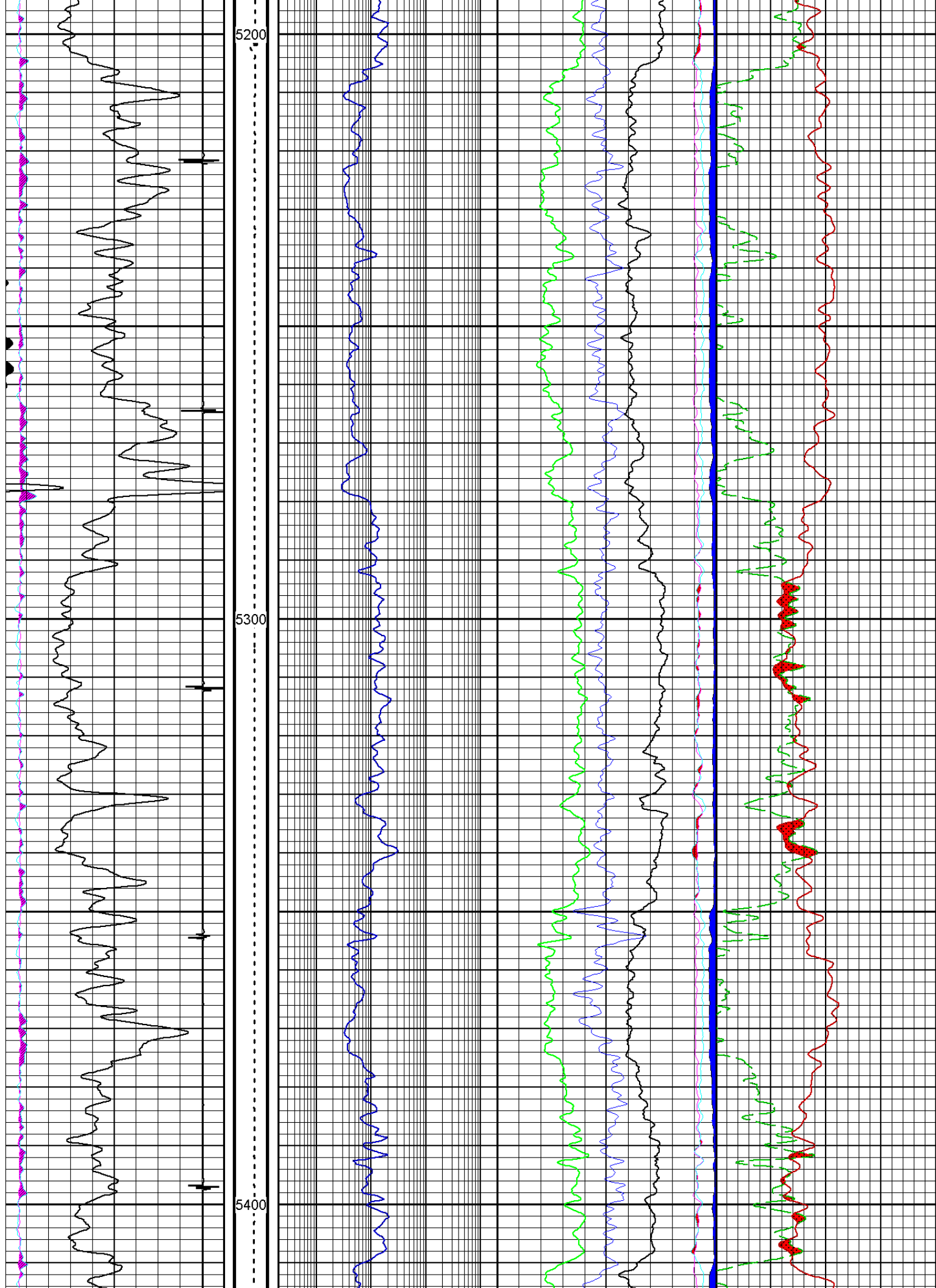


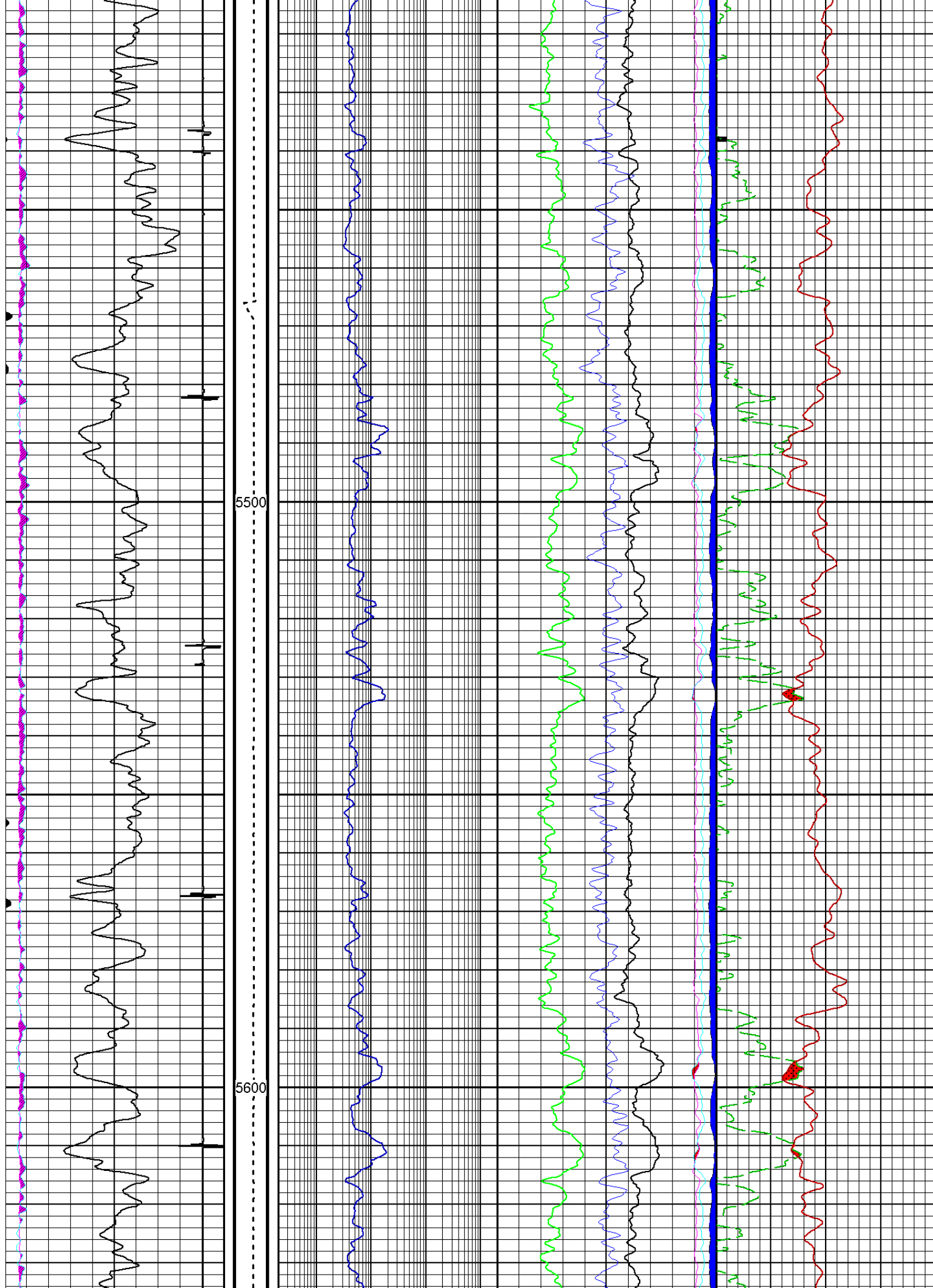


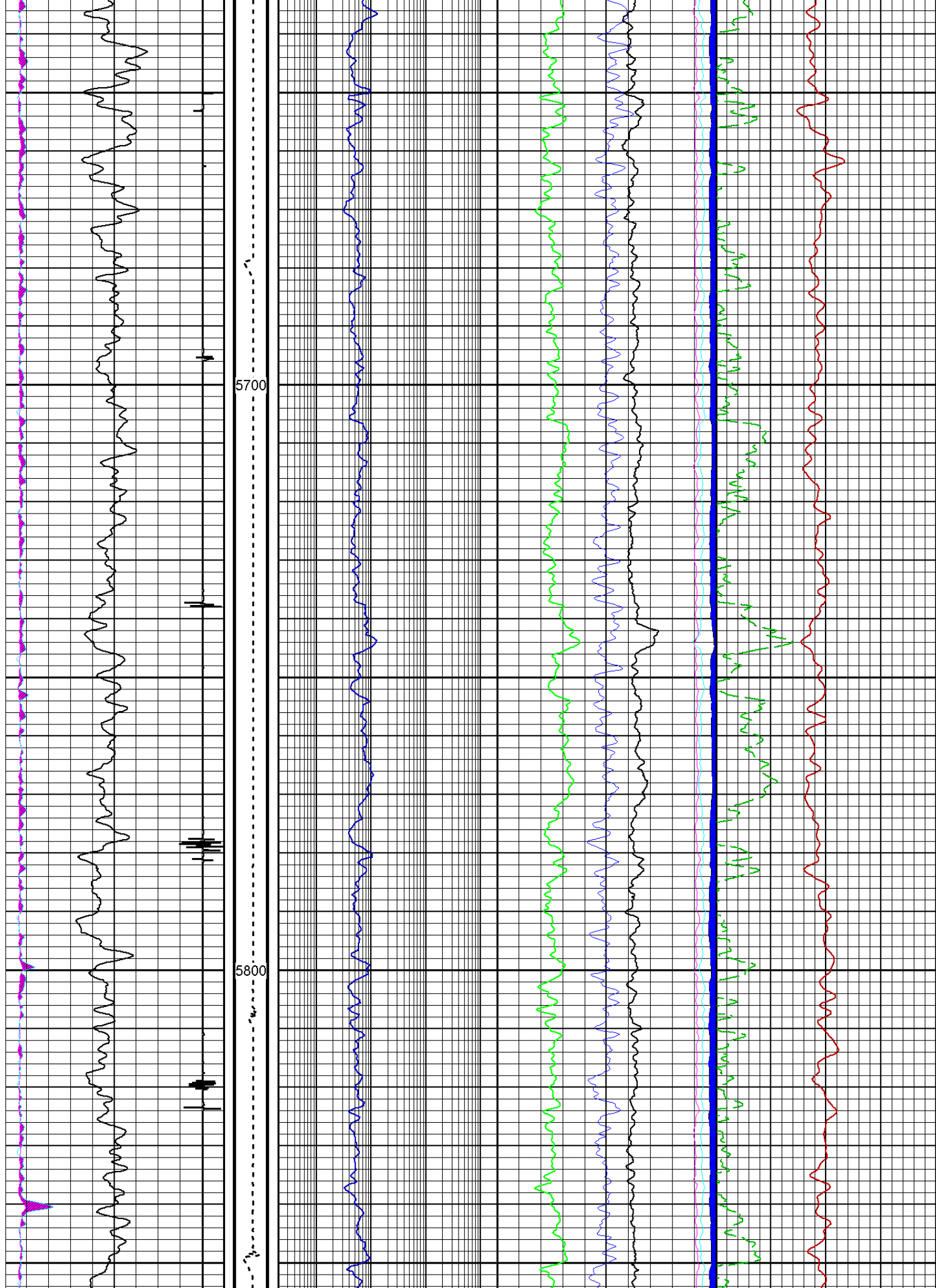


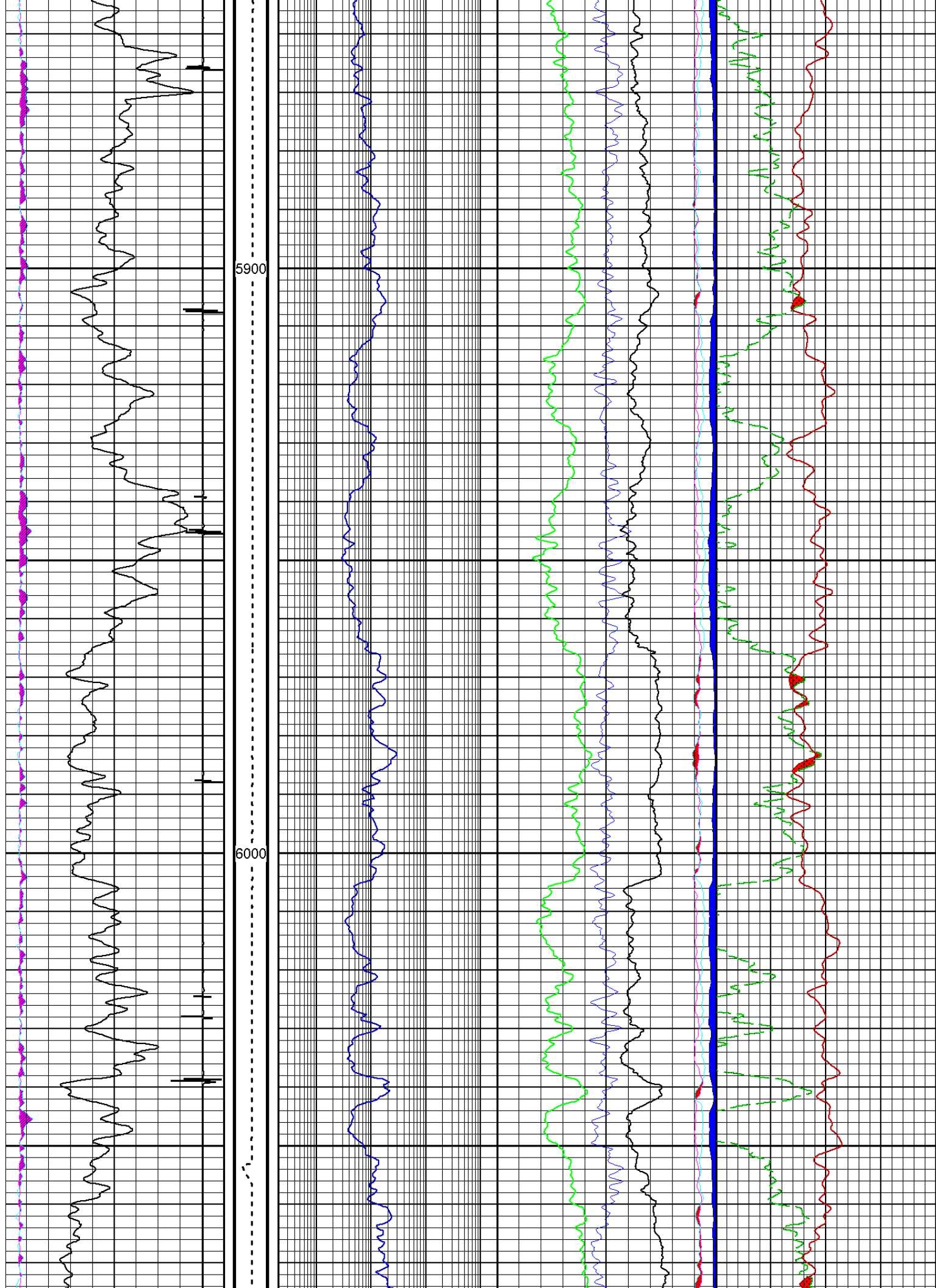


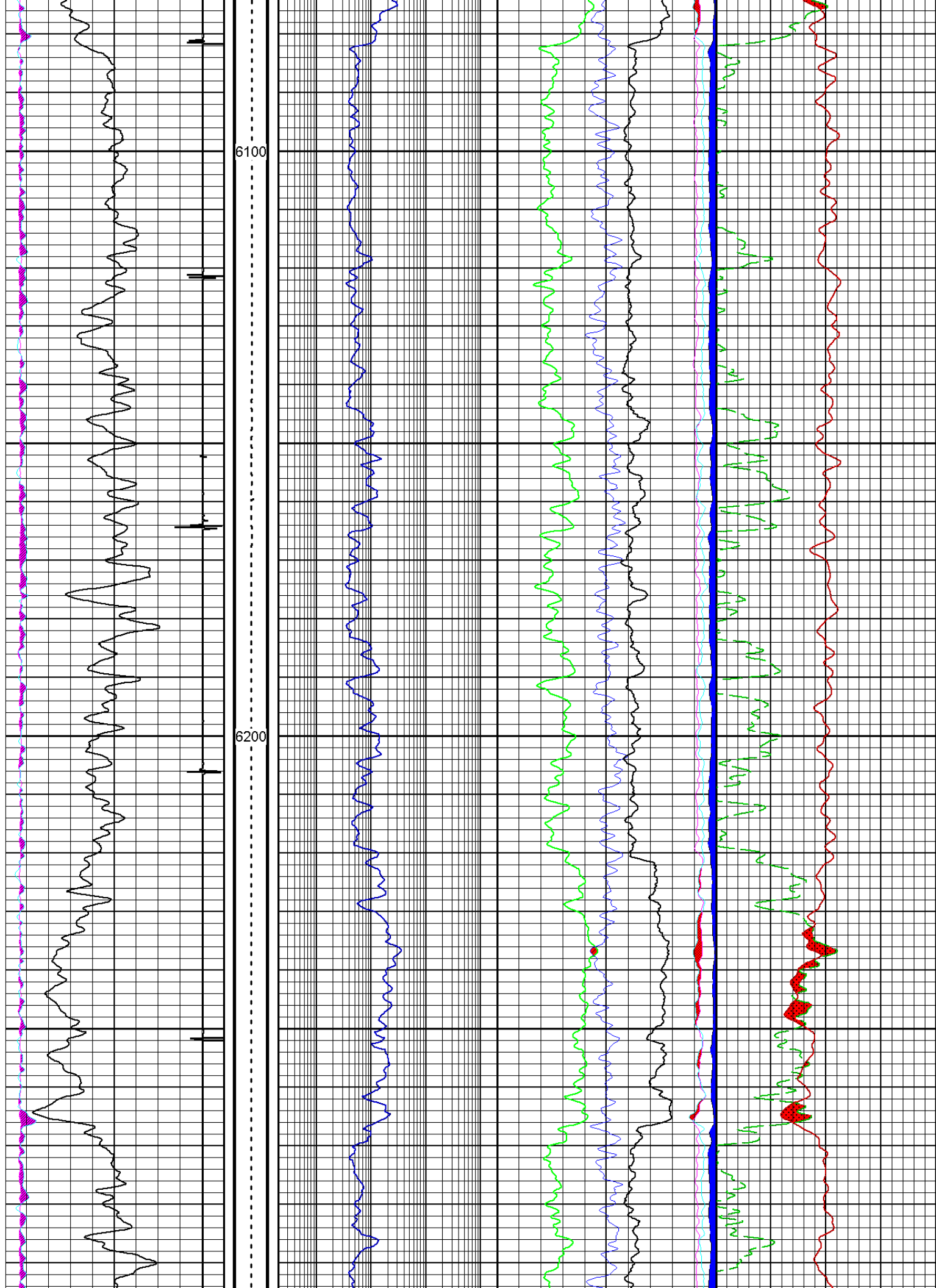


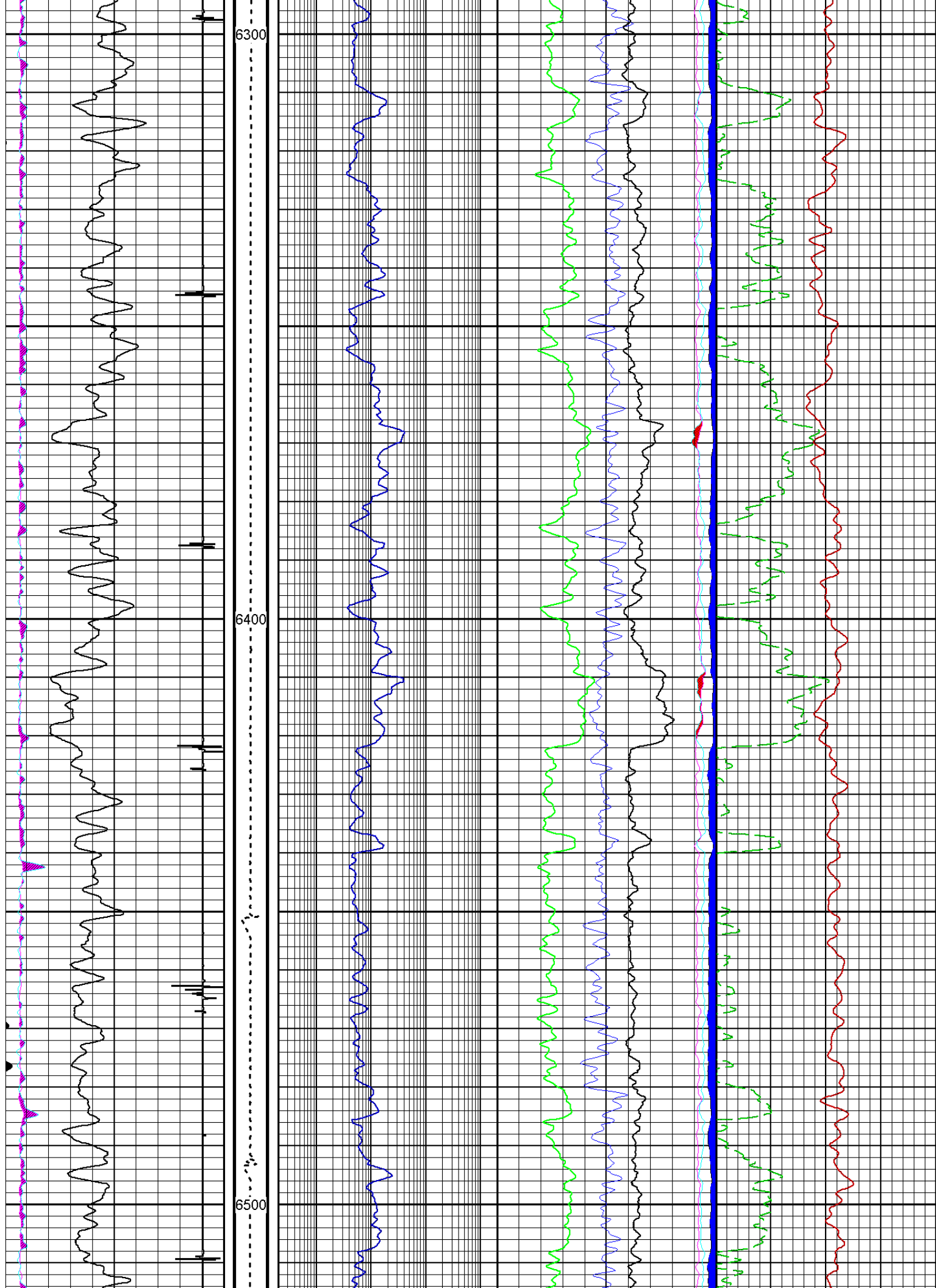


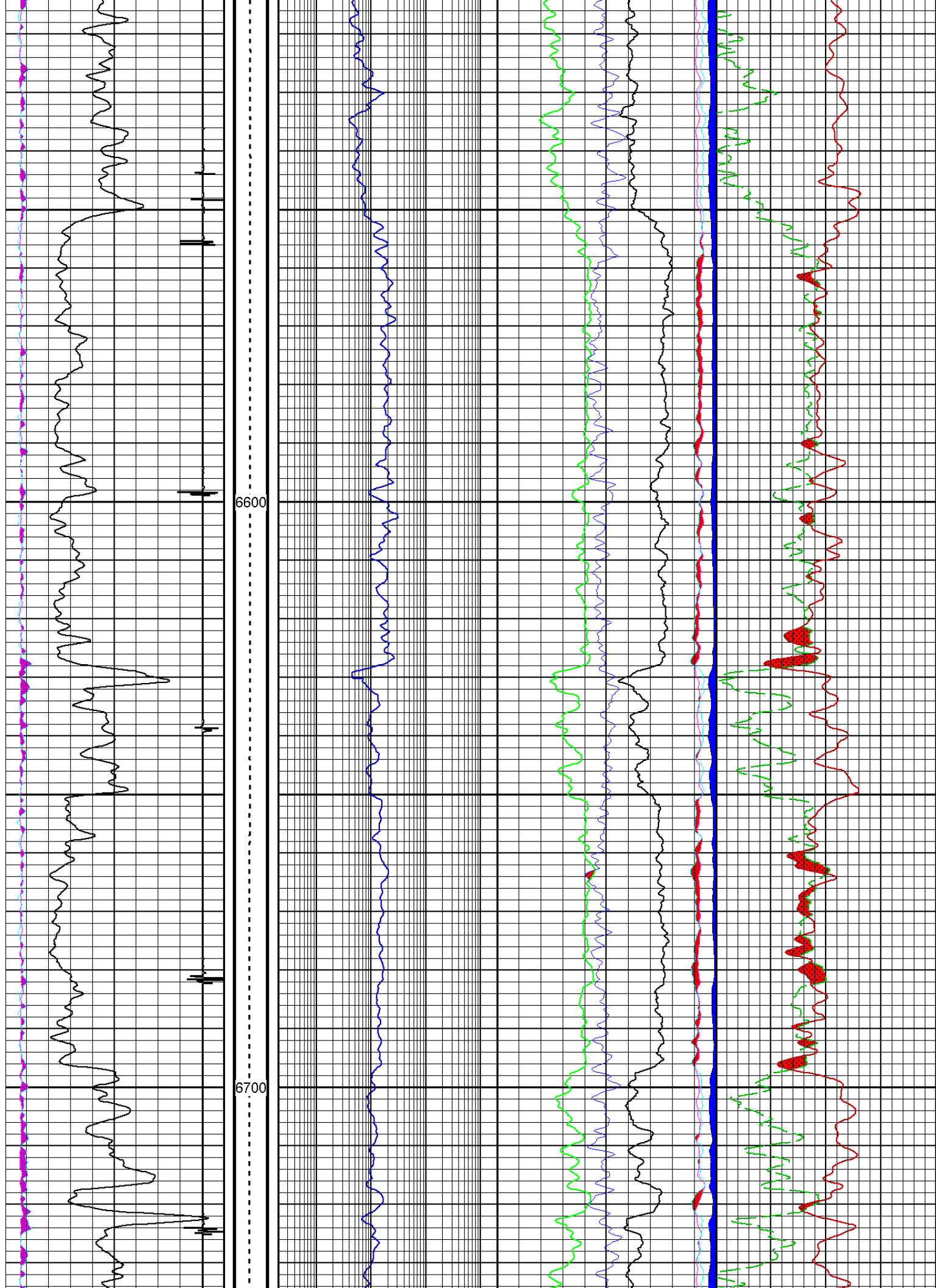




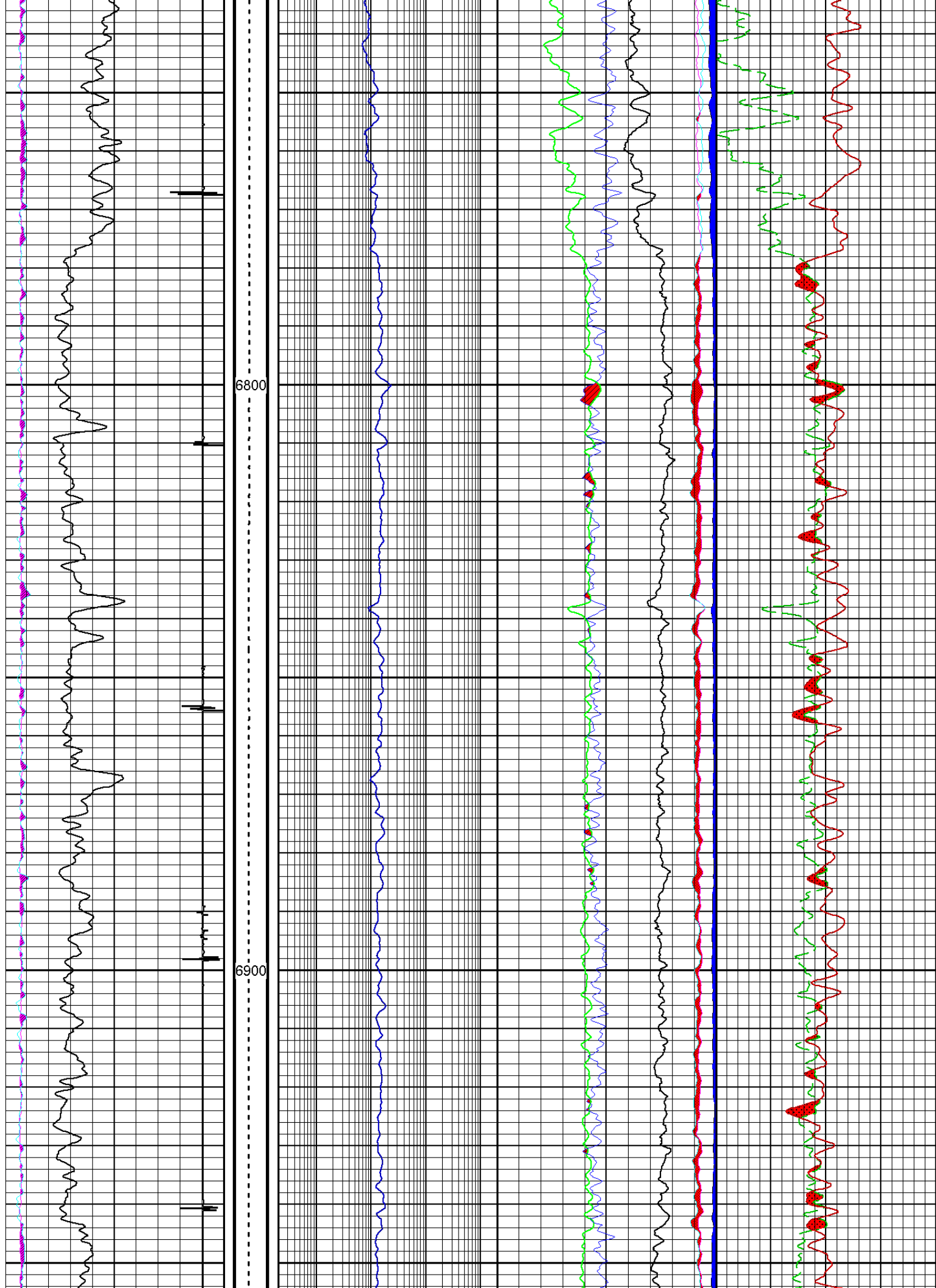




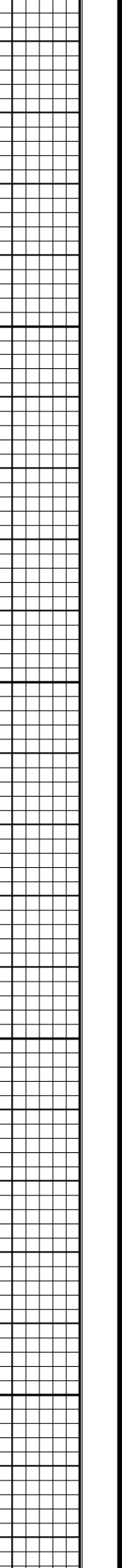
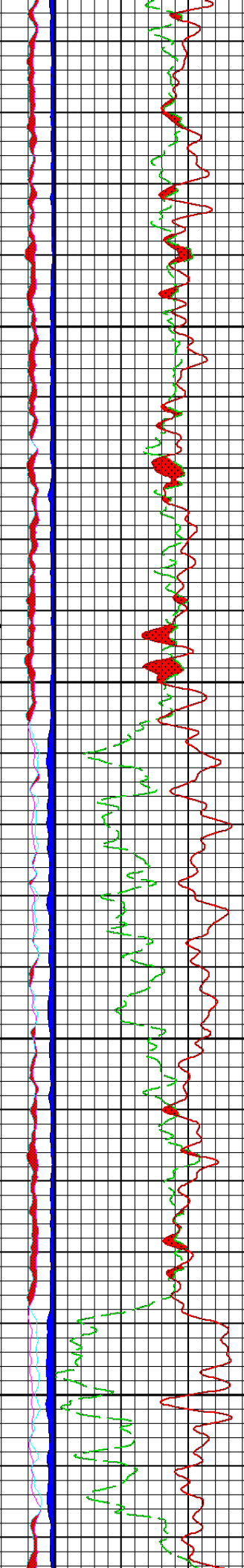
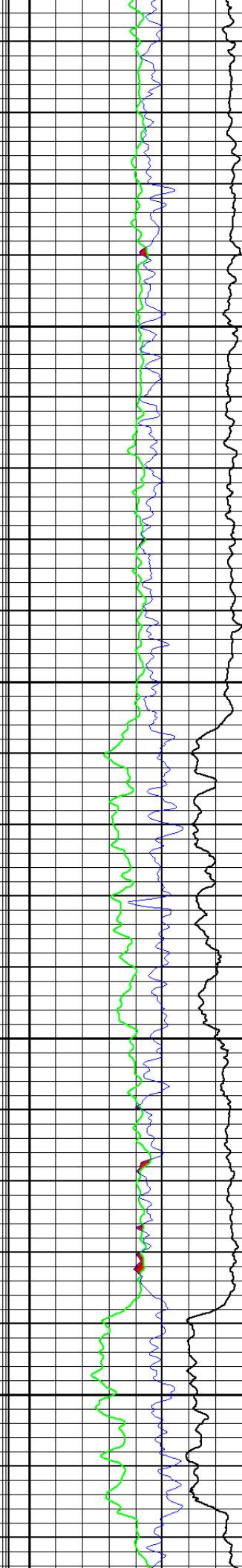
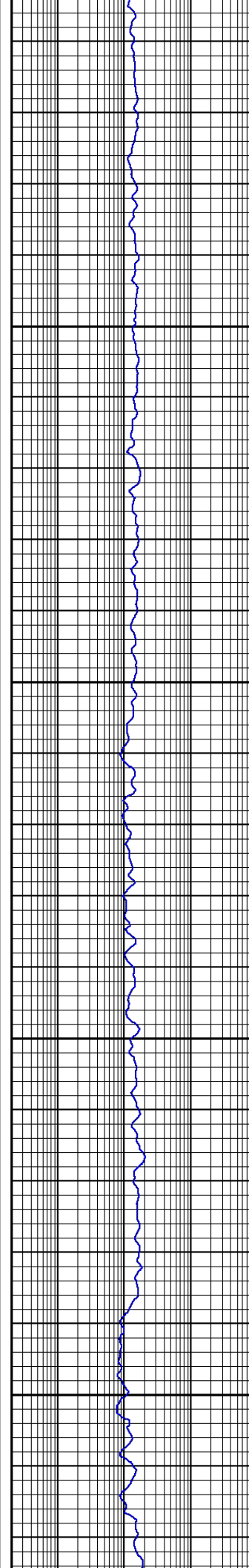
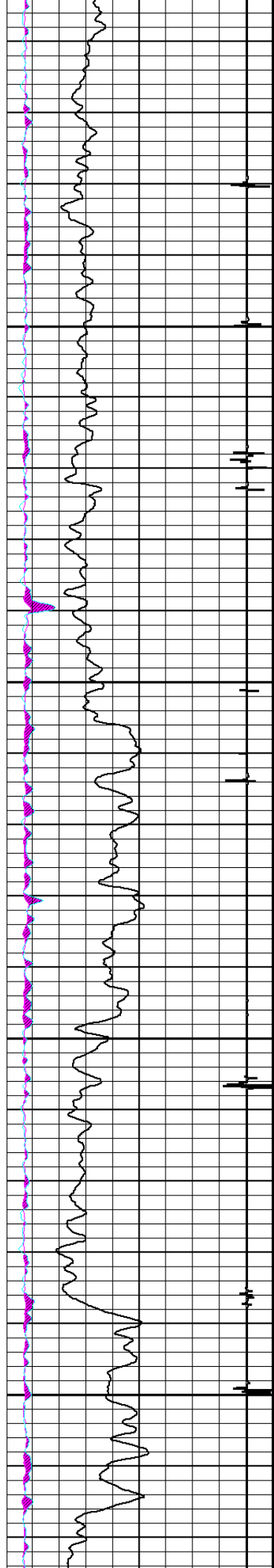


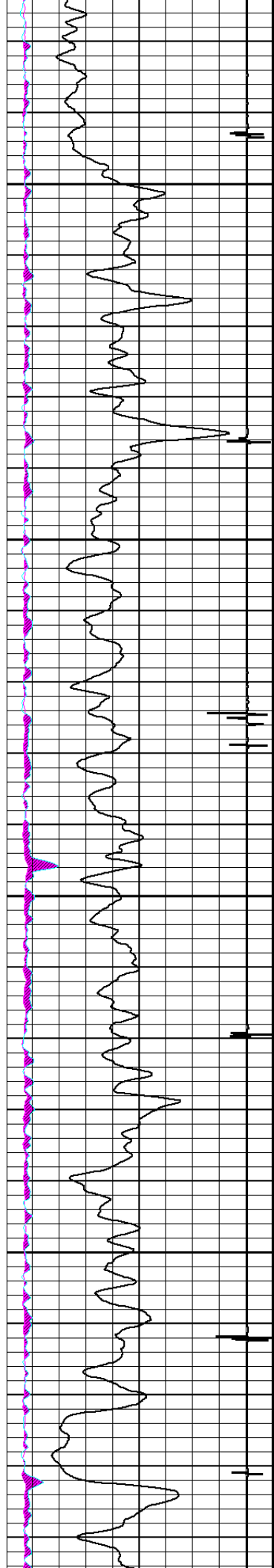






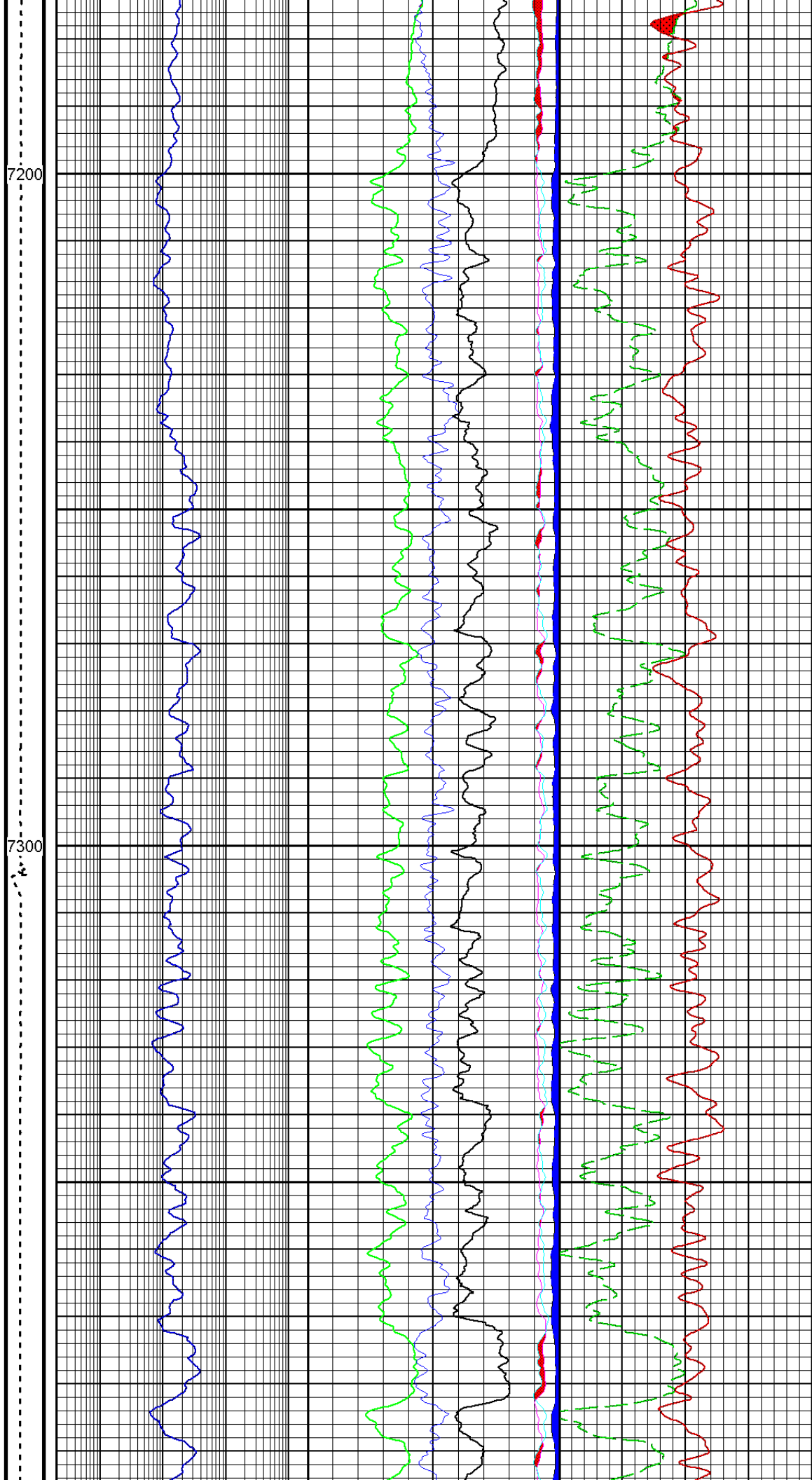


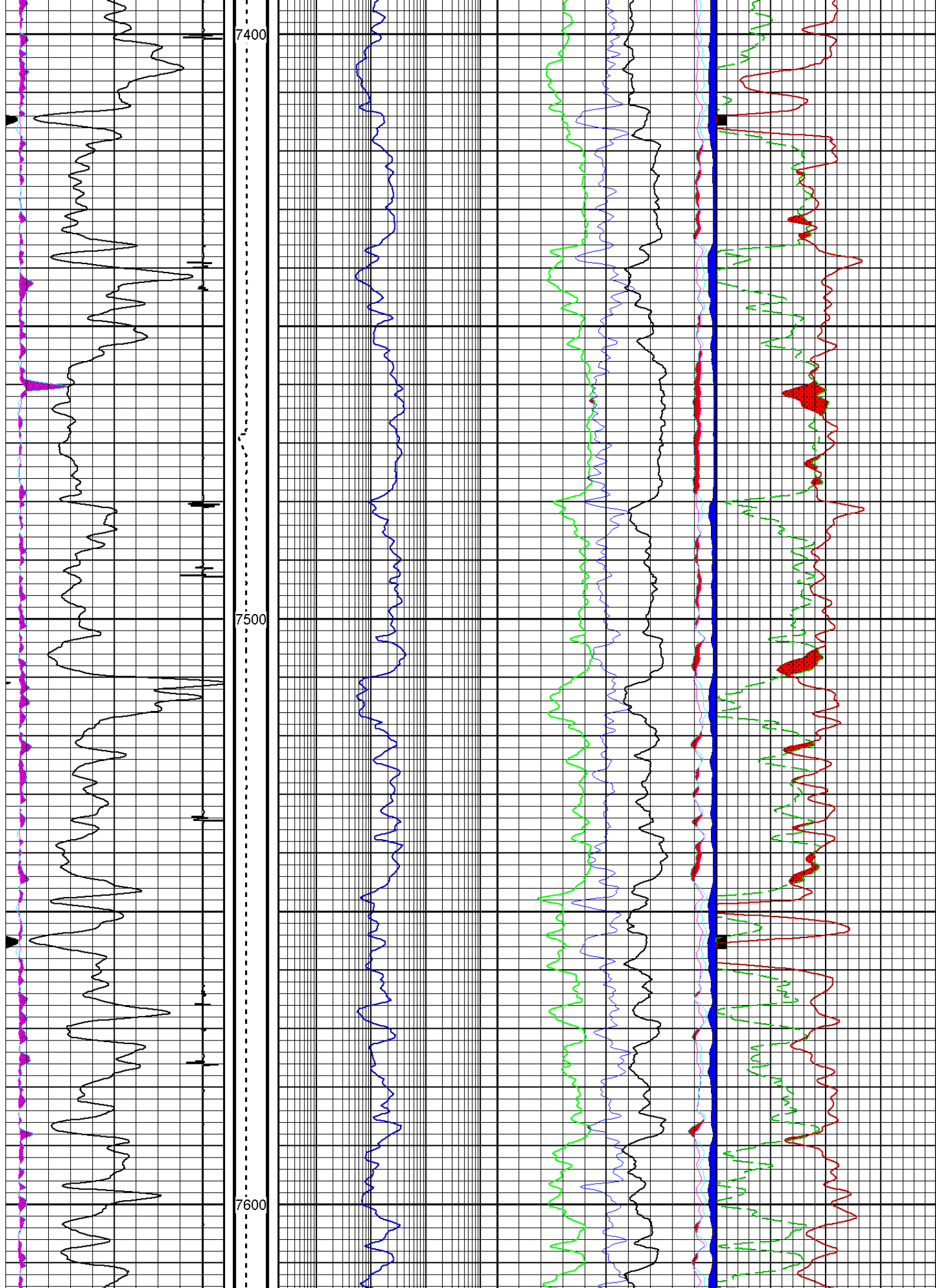


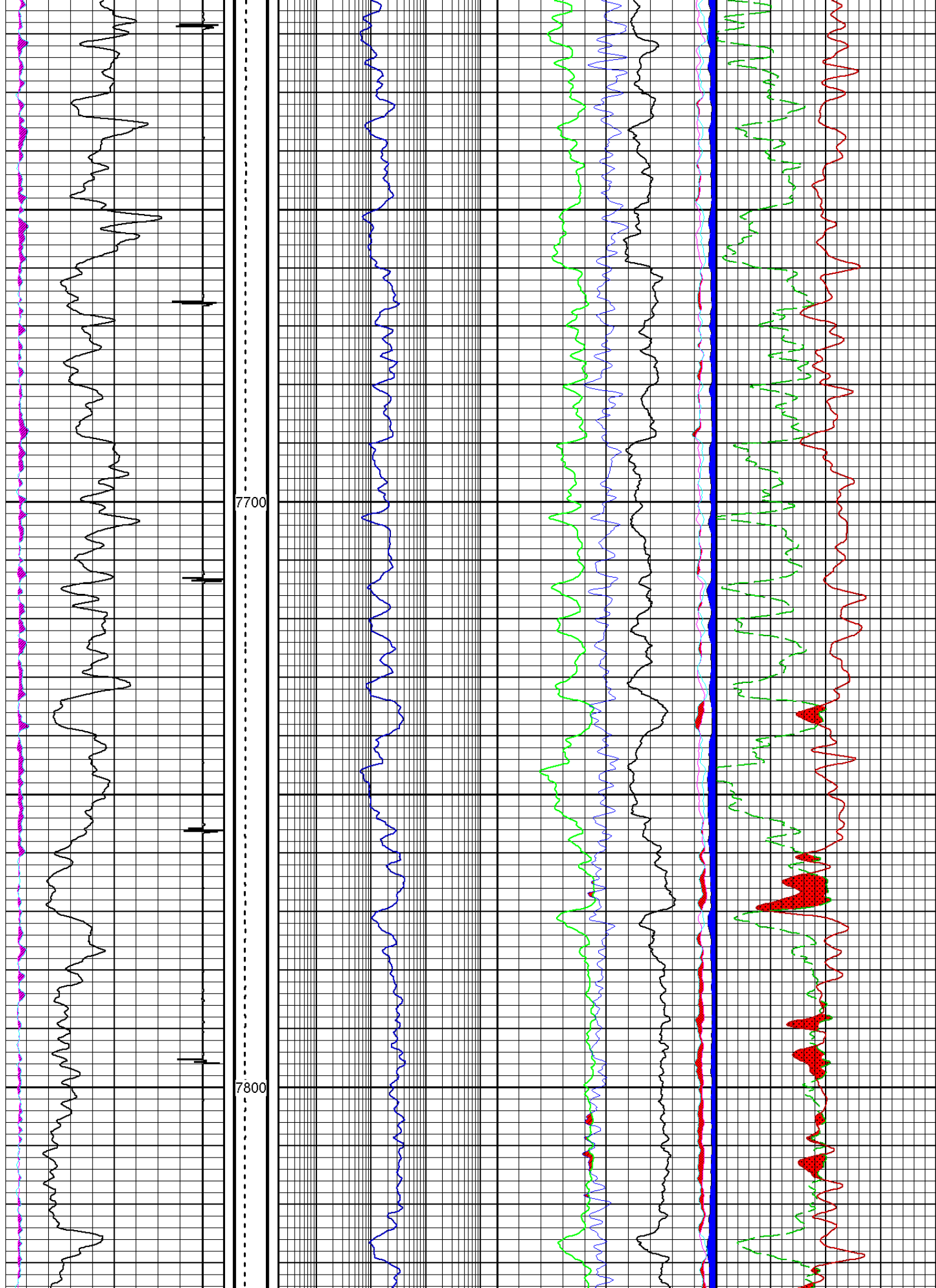


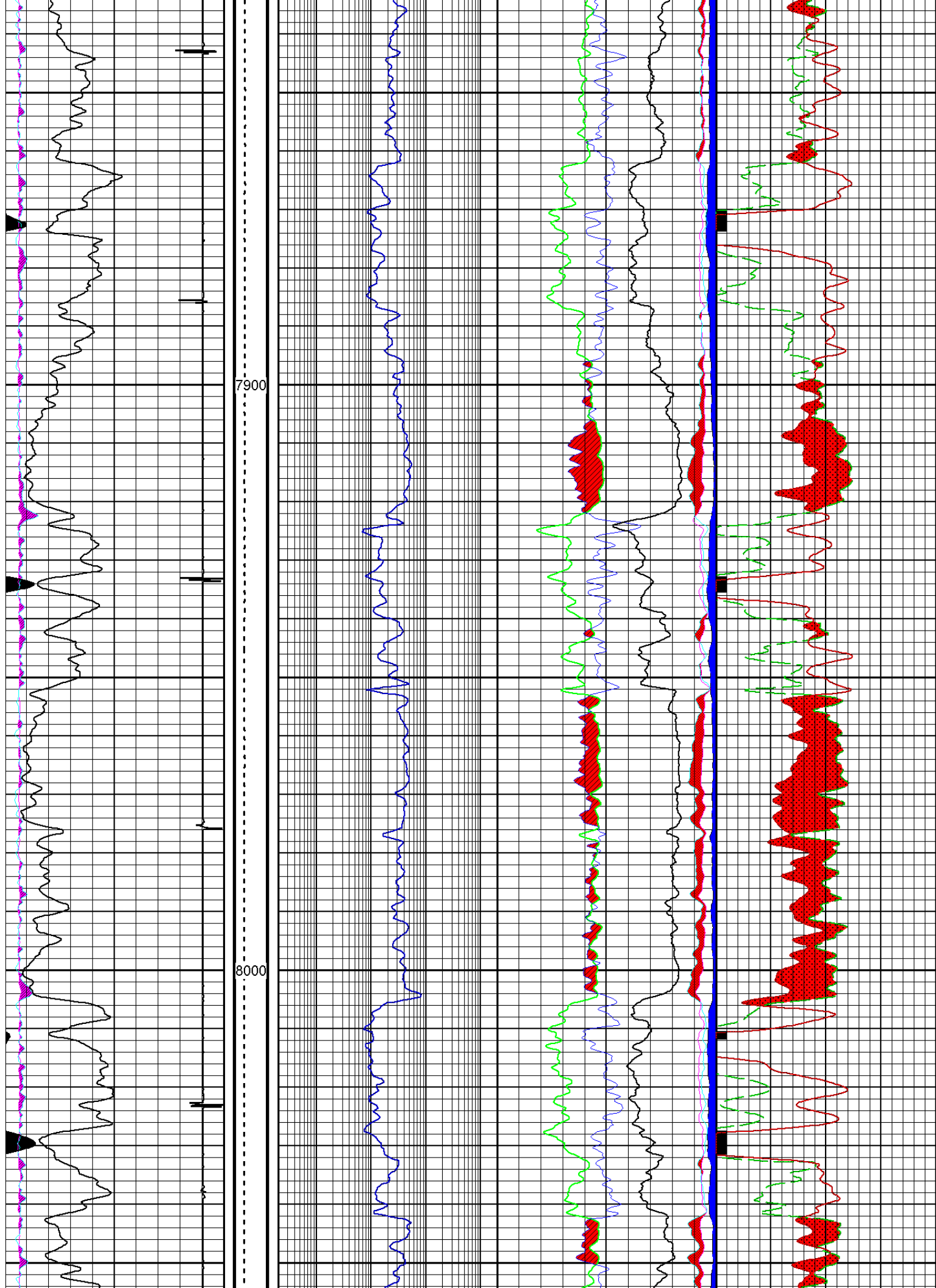
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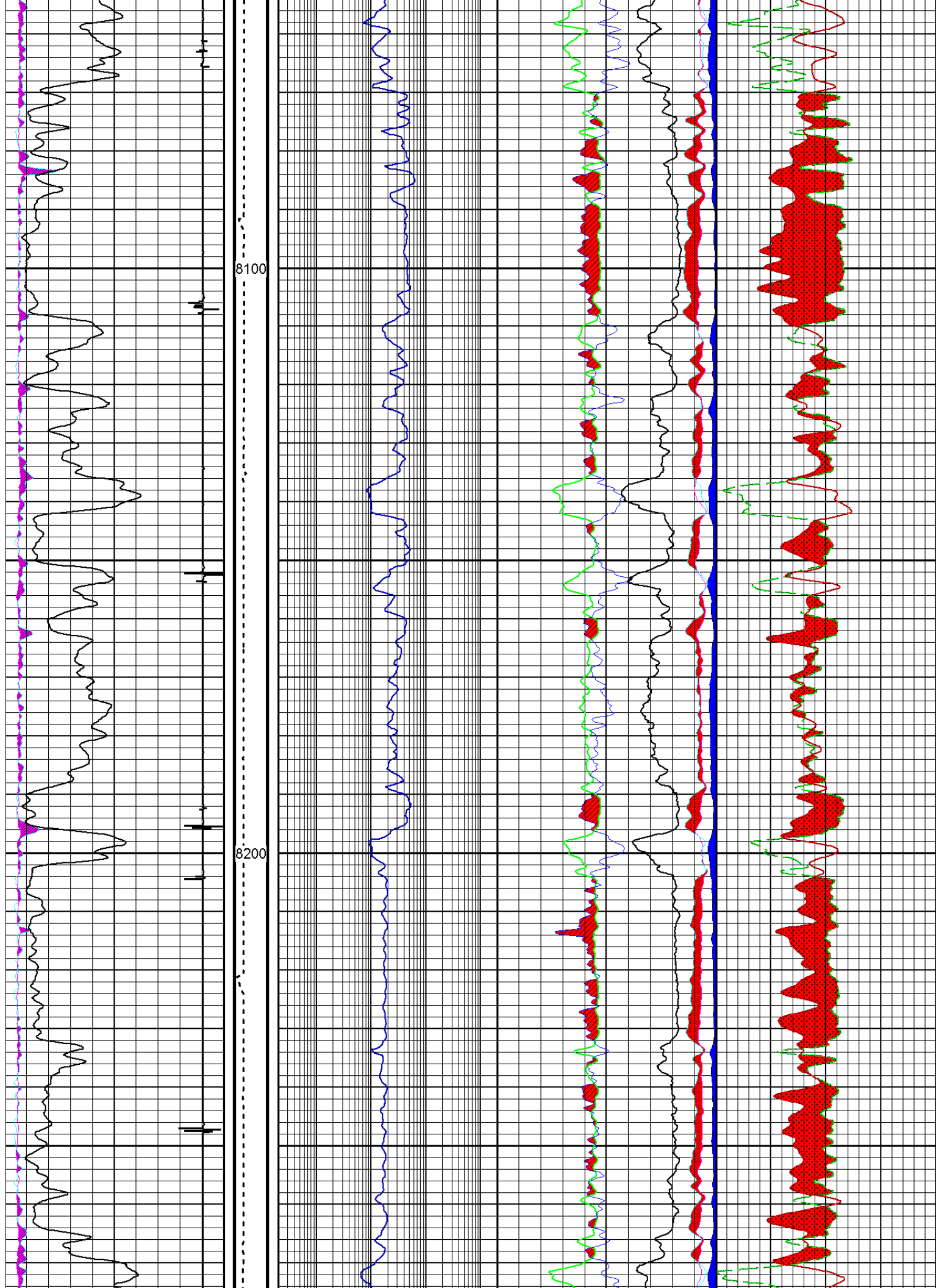
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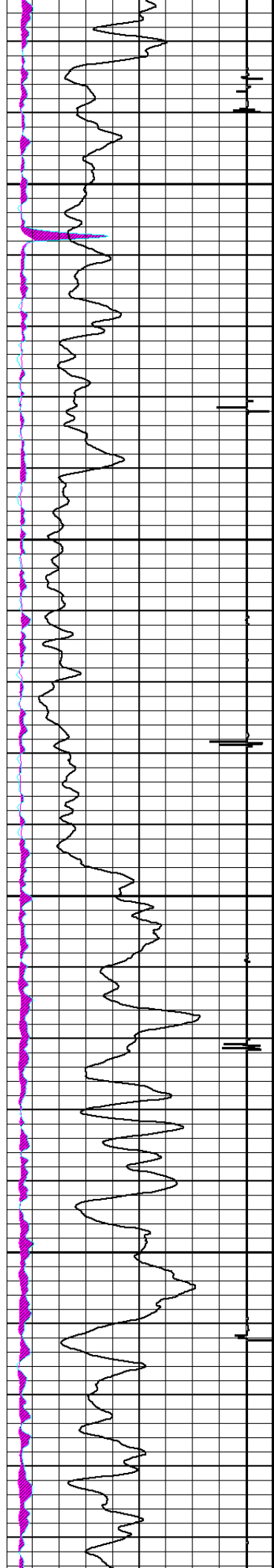






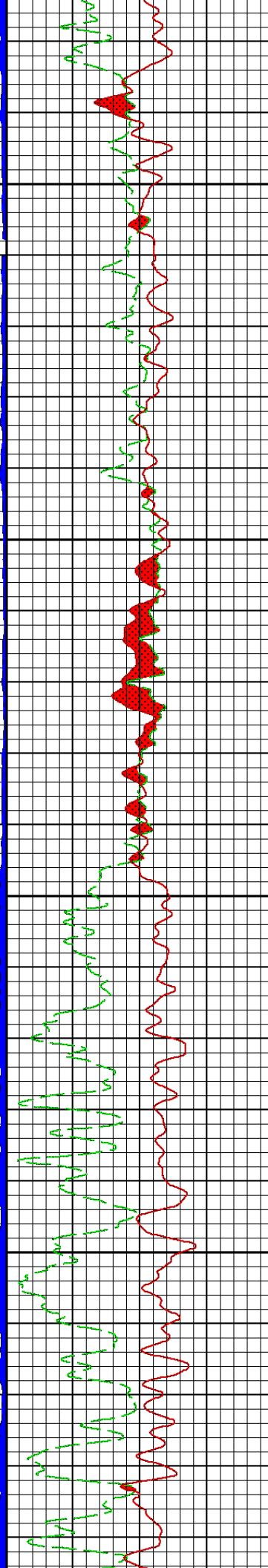
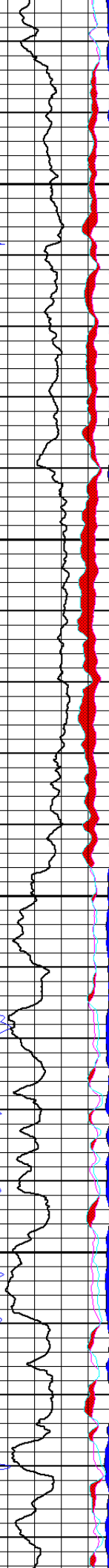
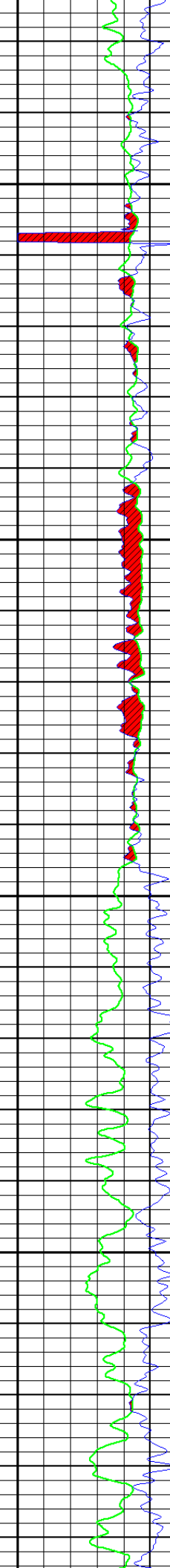
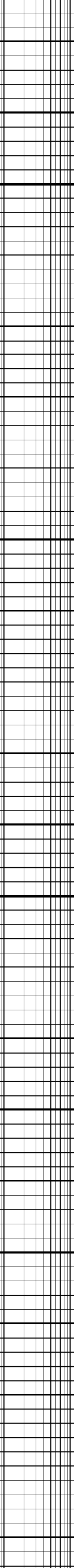
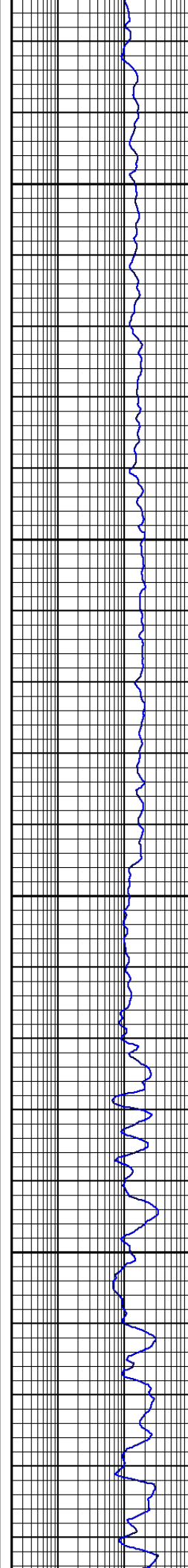




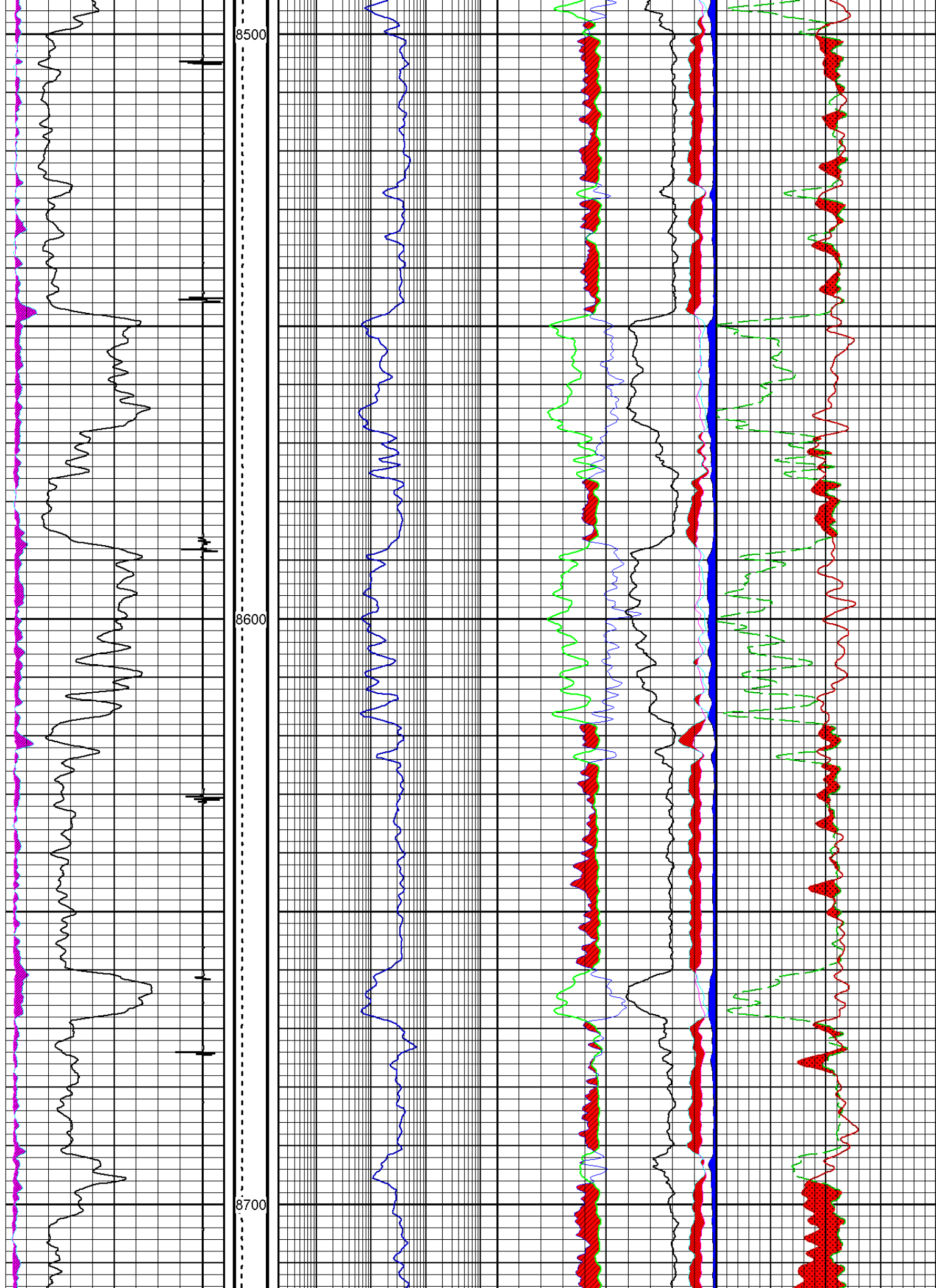


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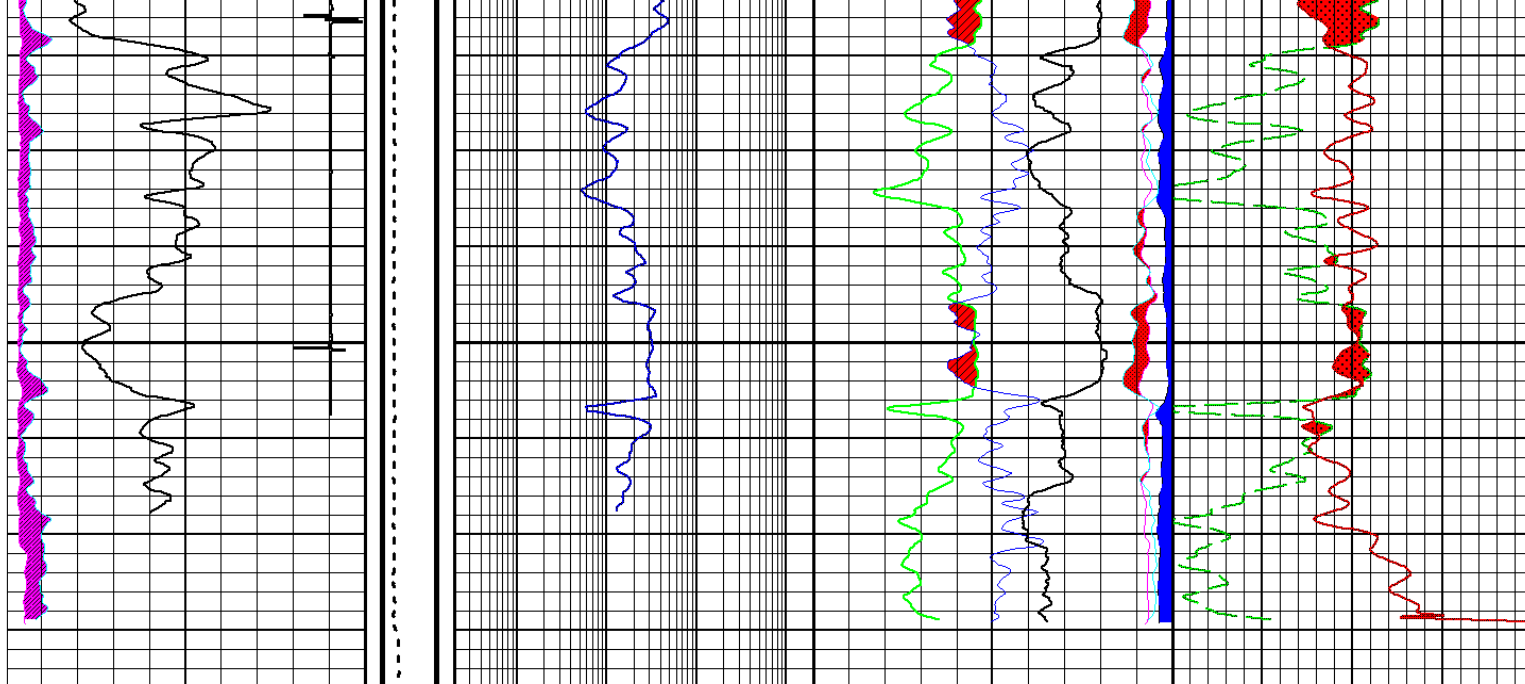
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CCL  
mv  
-30000 3070

DEPTH  
FT

RPNDS  
ohmm  
0.2 2000

DELI  
-100 0

AIPN  
dec(ss)  
0.3 -0.1

BGN  
cps  
0 30000

CSG  
0 flg 0

NEAR  
kcps  
240 0

AIPD  
dec(ss)  
0.3 -0.1

BGF  
cps  
0 3000

CSG  
10 flg 0

FAR  
kcps  
40 0

COAL  
flg  
0 20

GRP  
gapi  
0 150

TENS  
1000

RAT1  
6 -4

AIPD AIPN

HICFF  
9 19

RBNF  
6.5 16.5

0 COAL

BGN BGF

SIGC  
cu  
60 0

8 HICFF

DELI 0

FAR NEAR

RBNF RAT1