



# 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 API Num 050810740900  
Permanent Datum G.L. Elevation 6575.4' K.B. 6588.9'  
Log Measured From K.B., 13.5' Above Perm Datum D.F. N/A  
Drilling Meas From K.B. G.L. 6575.4'

### Date

Depth - Driller

Depth - Logger

Btm Log Interval

Top Log Interval

Casing - Driller

Casing - Logger

Bitsize

Type Fluid in Hole

Dens. /Visc.

pH / Fluid Loss

Source of Sample

Rm @ Meas. Temp

Rmf @ Meas. Temp

Rmc @ Meas. Temp

Source: Rmf / Rmc

Rm @ BHT

Max. Rec. Temp.

Run 1	Run 2	Run 3
22-FEB-2008		
8808.1'		
8779.0'		
8772.0'		
450' (GR)	1900' (PND-S)	
N/A		
N/A		
7"		
KCL		
N/A / N/A		
N/A / N/A		
NONE		
N/A @ N/A		
N/A @ N/A		
N/A @ N/A		
N/A / N/A		
N/A @ N/A		
N/A		

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

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)

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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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 WILLFULL 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.

WEATHERFORD INTERNATIONAL INC.

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 Poss.NormDeposits(BGN-F)

 Coal\_Volume

 Lower\_Inelastic\_Data\_Quality

 Gas\_Indication\_from\_Near/Far\_cnts

 Gas\_Indication\_from\_RAT/INEL-RAT

 Gas\_Indication\_from\_AI\_Porosity

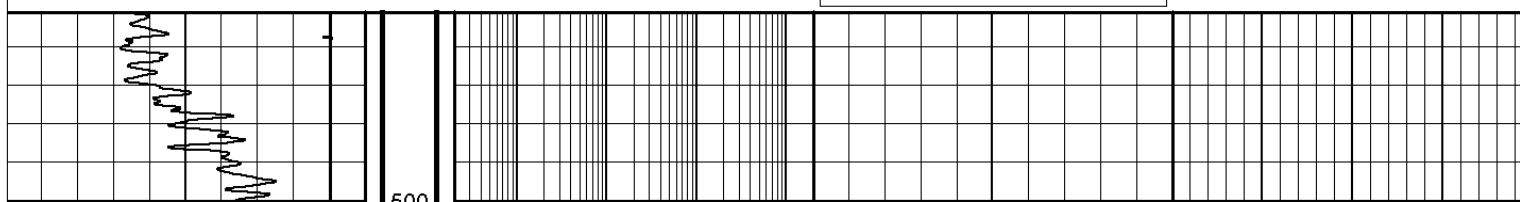
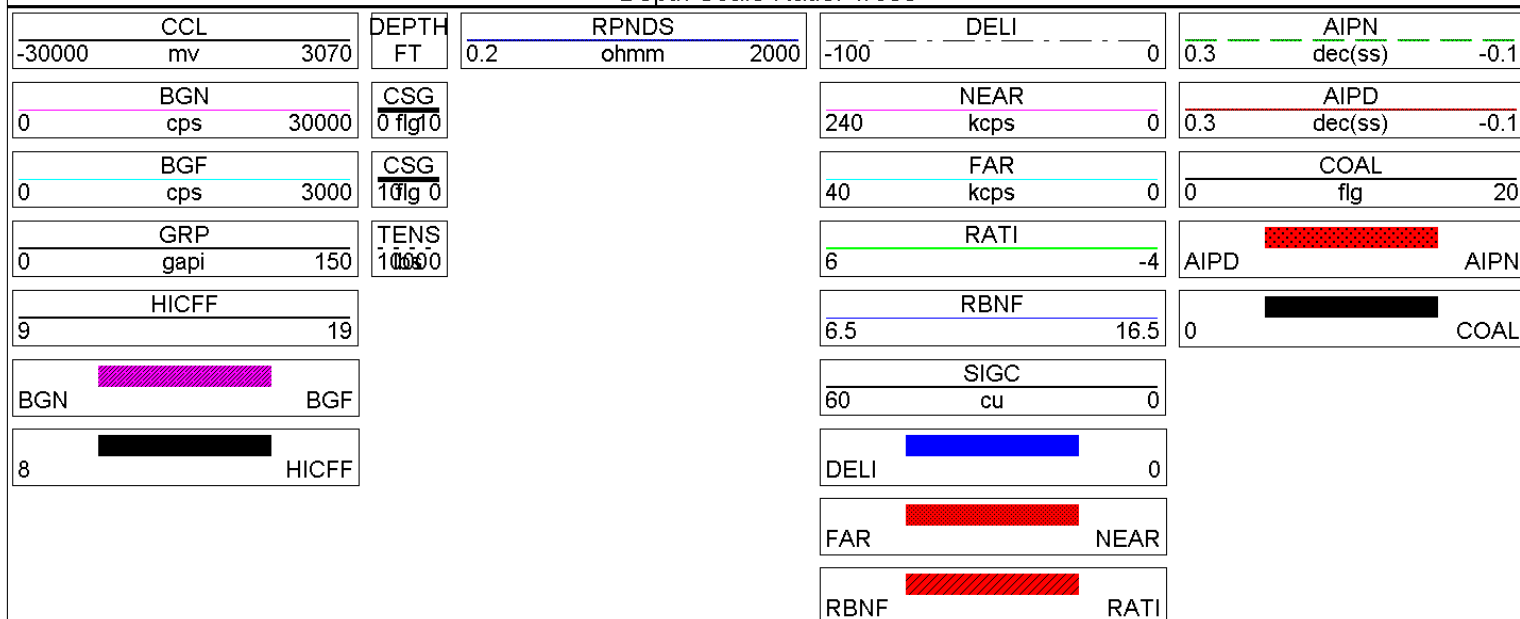
CARL ALLEN # 27

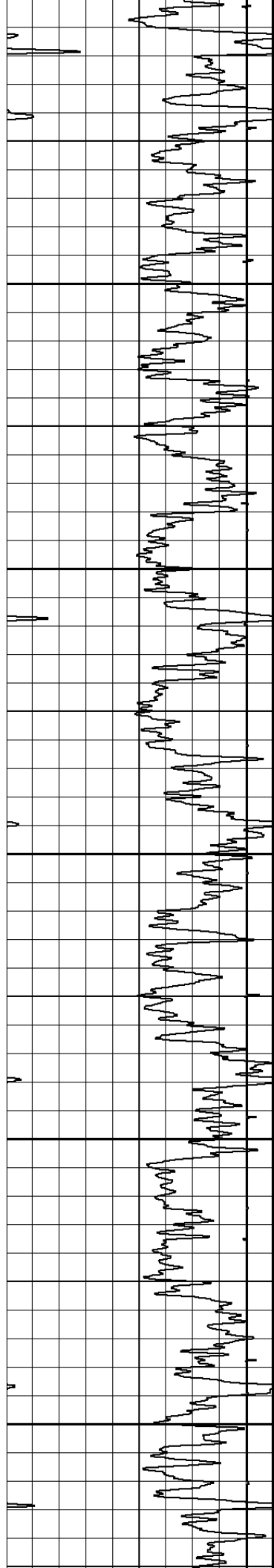
27 Feb 2008 @ 14:06

DEPTH (FT)

Interval: 451.00 to 8786.00

Depth Scale Ratio: 1/600





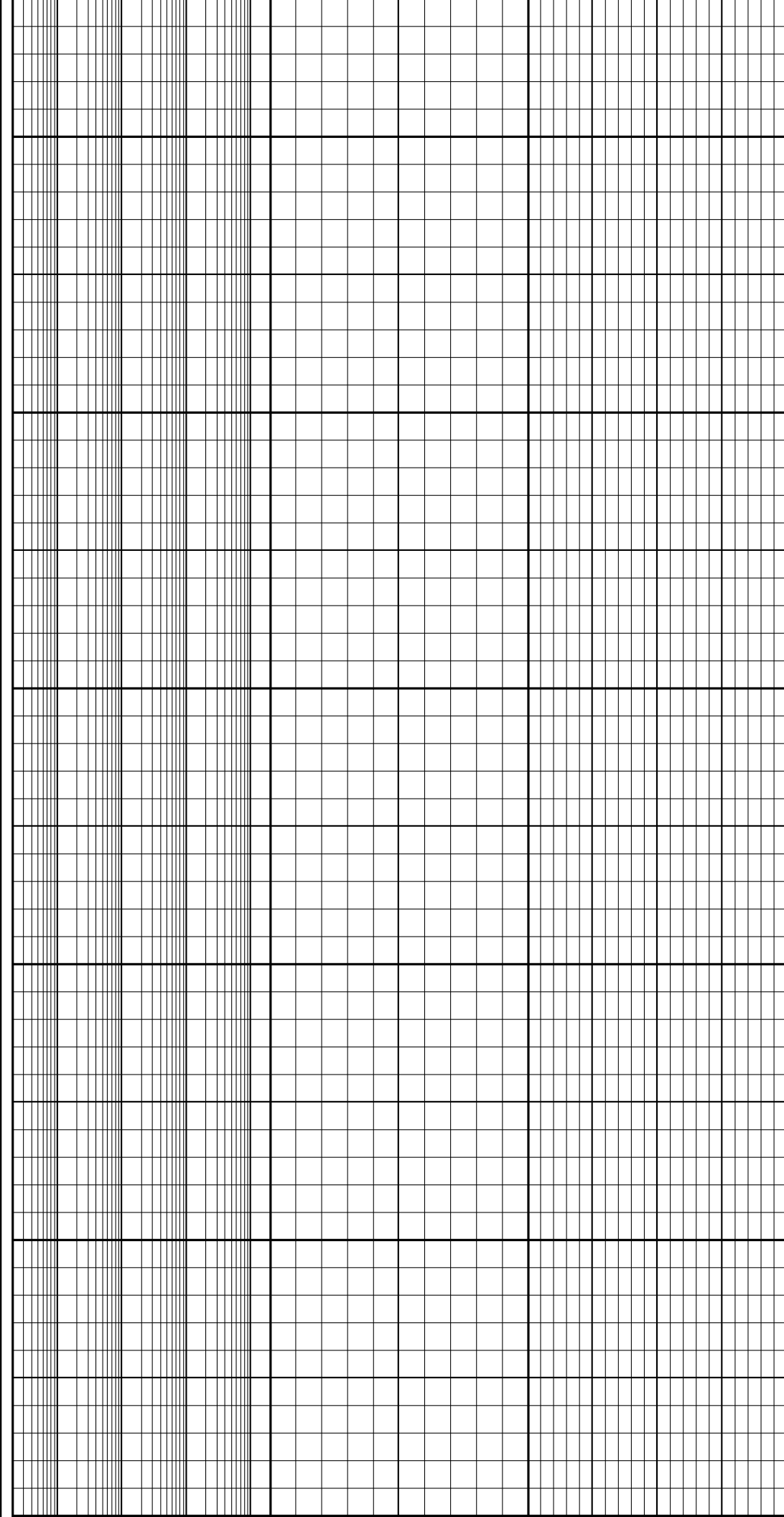
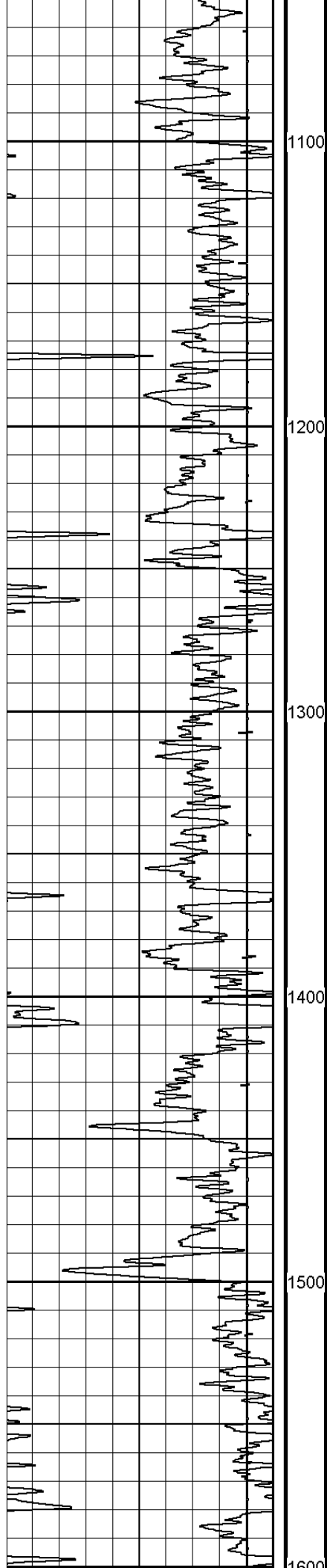
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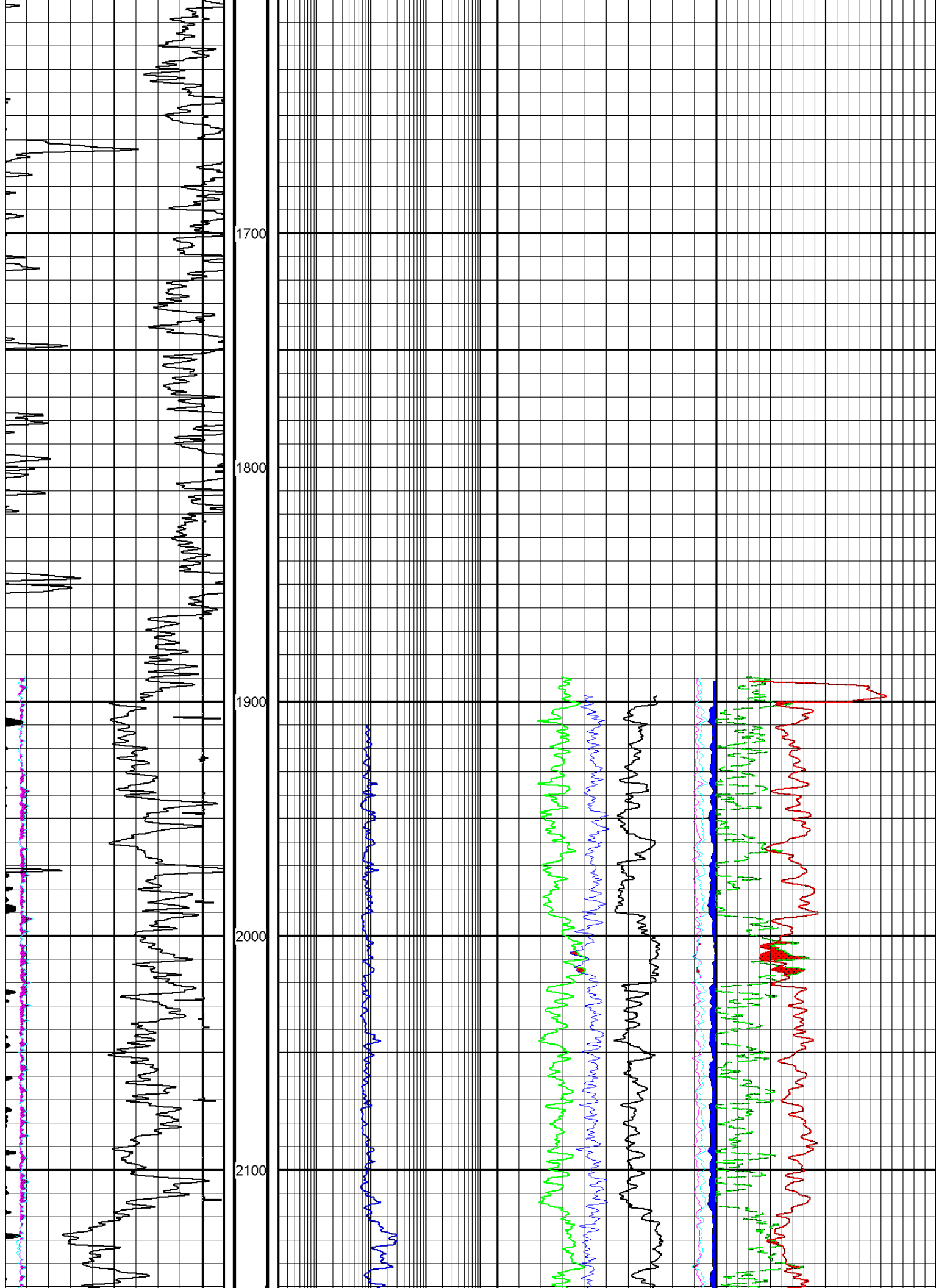
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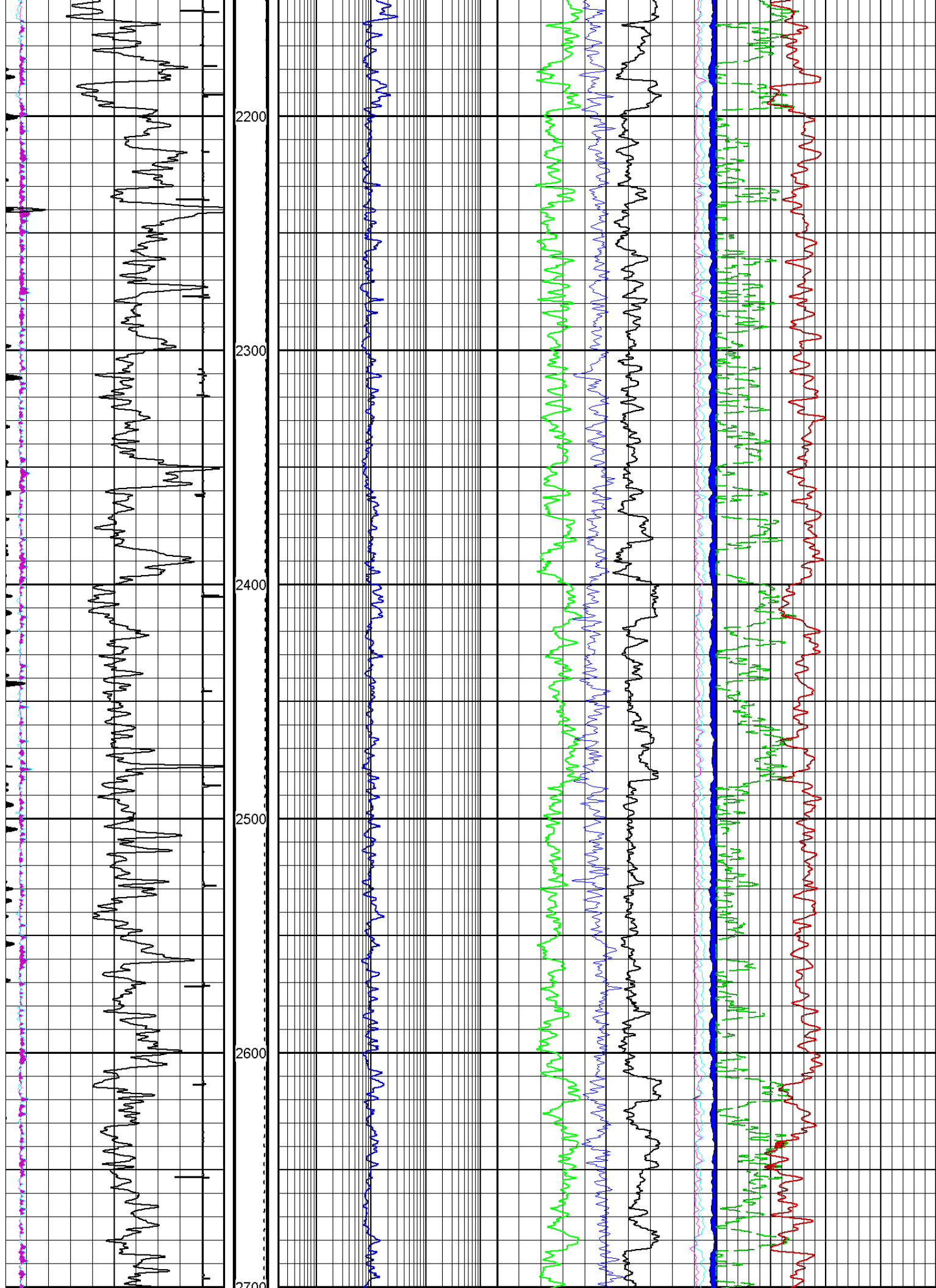
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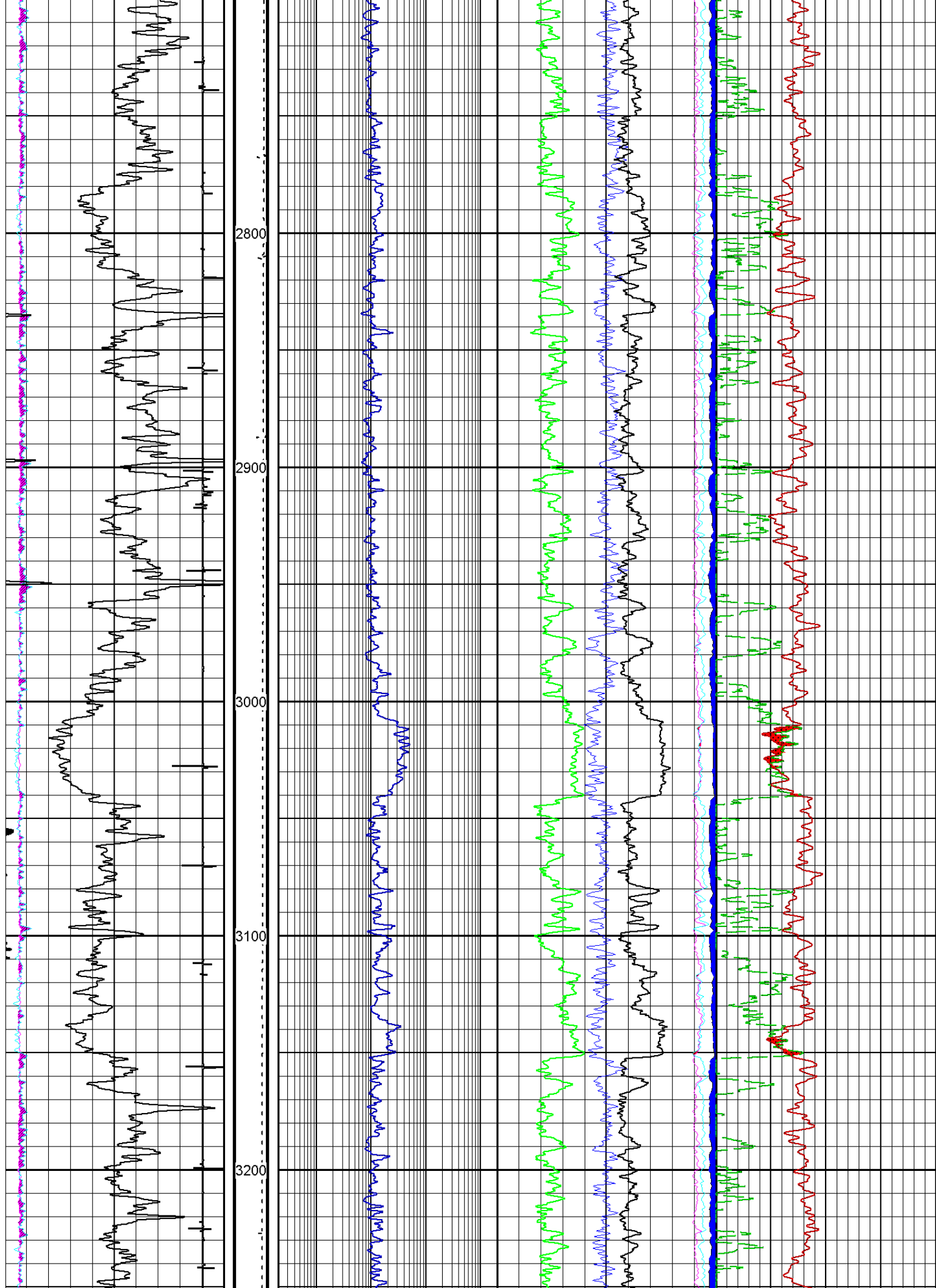
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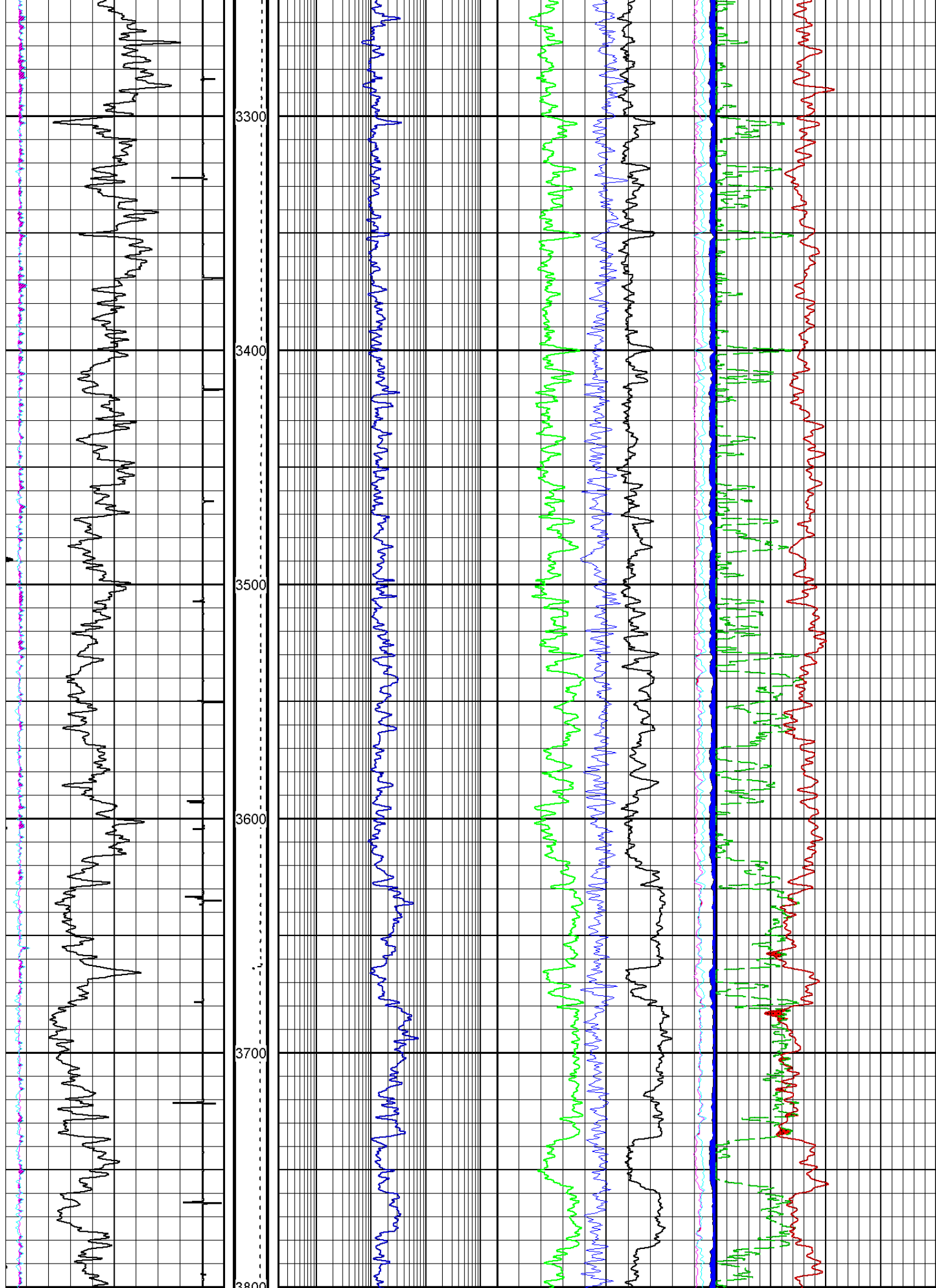


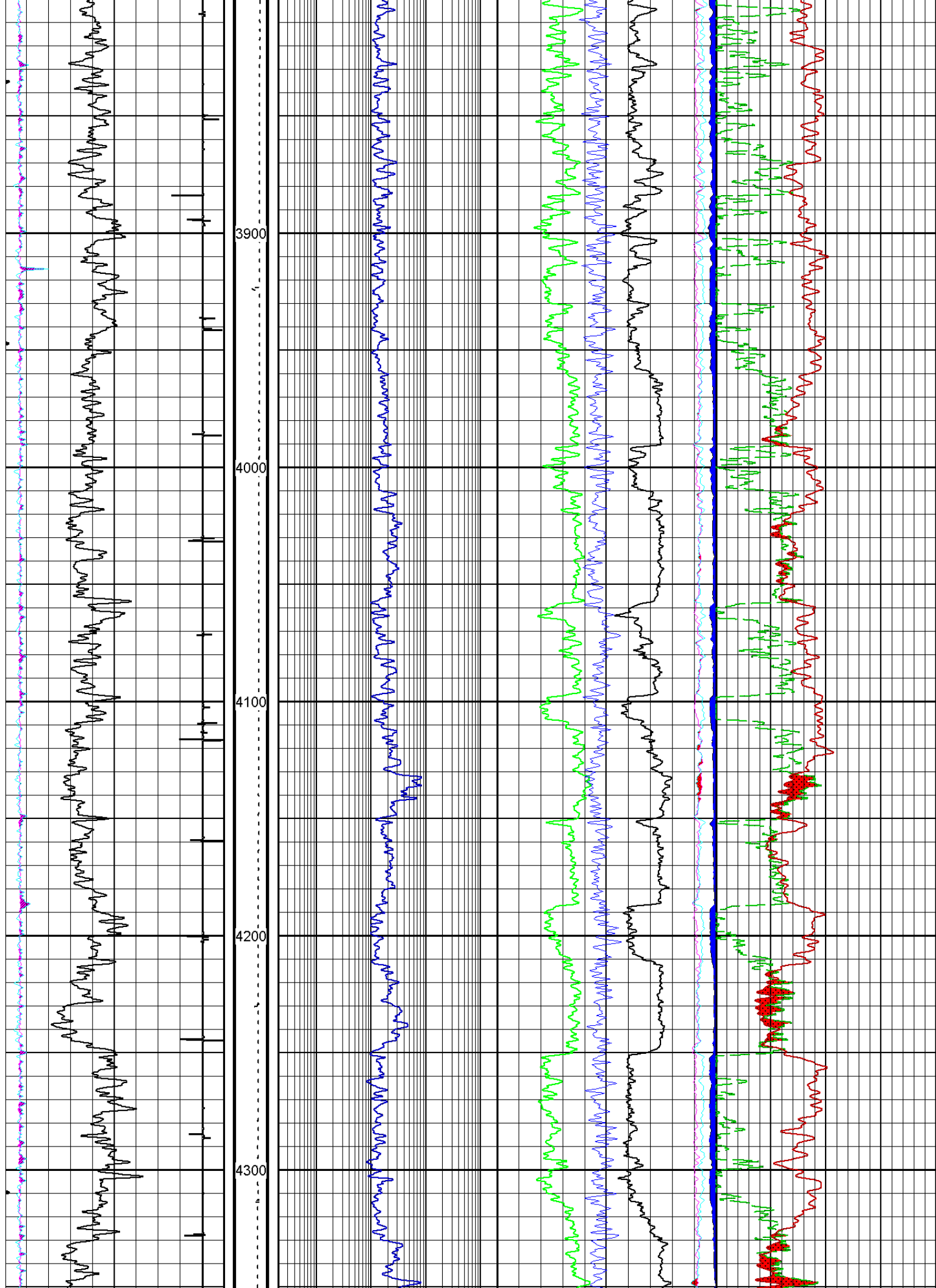


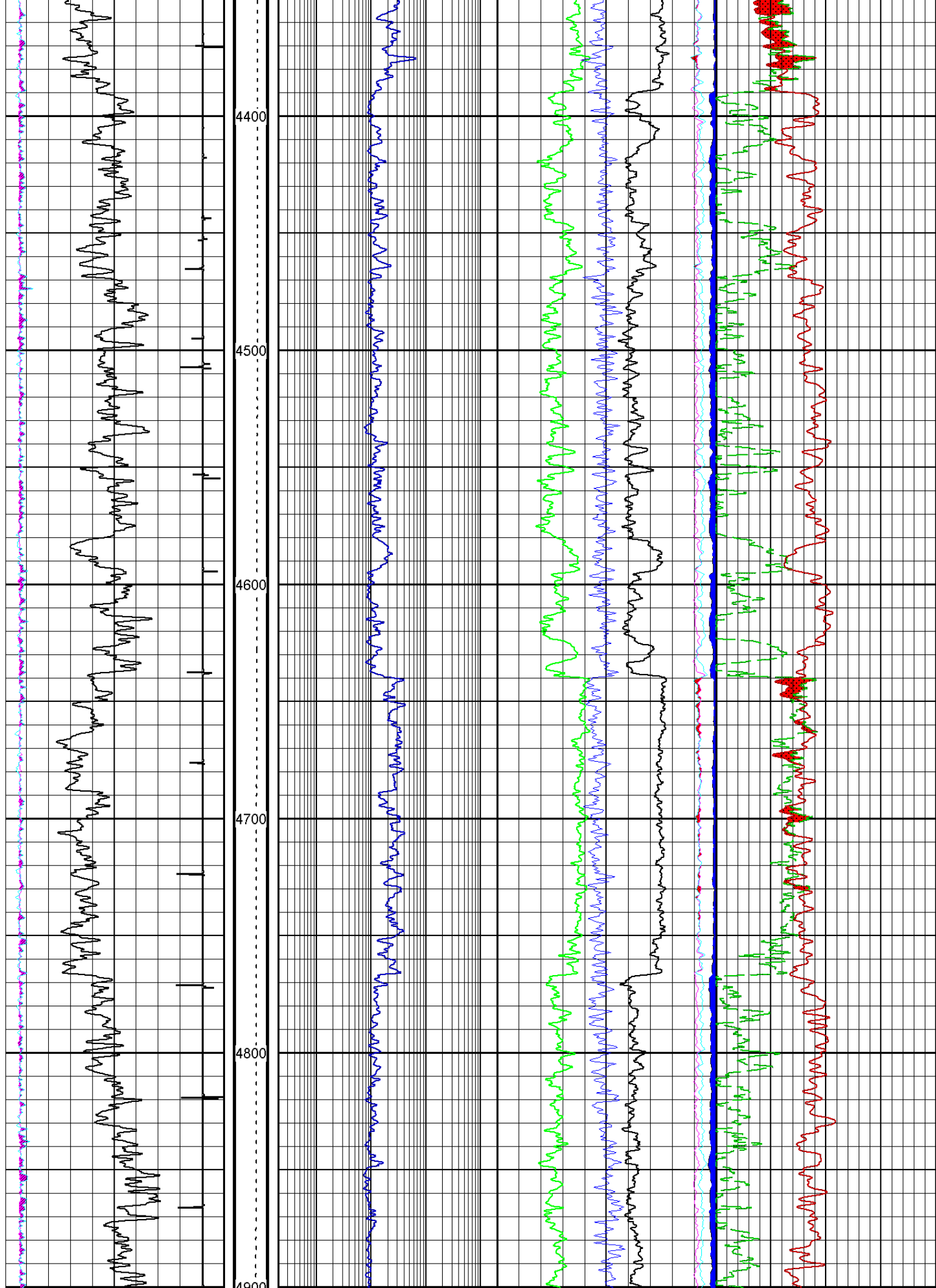


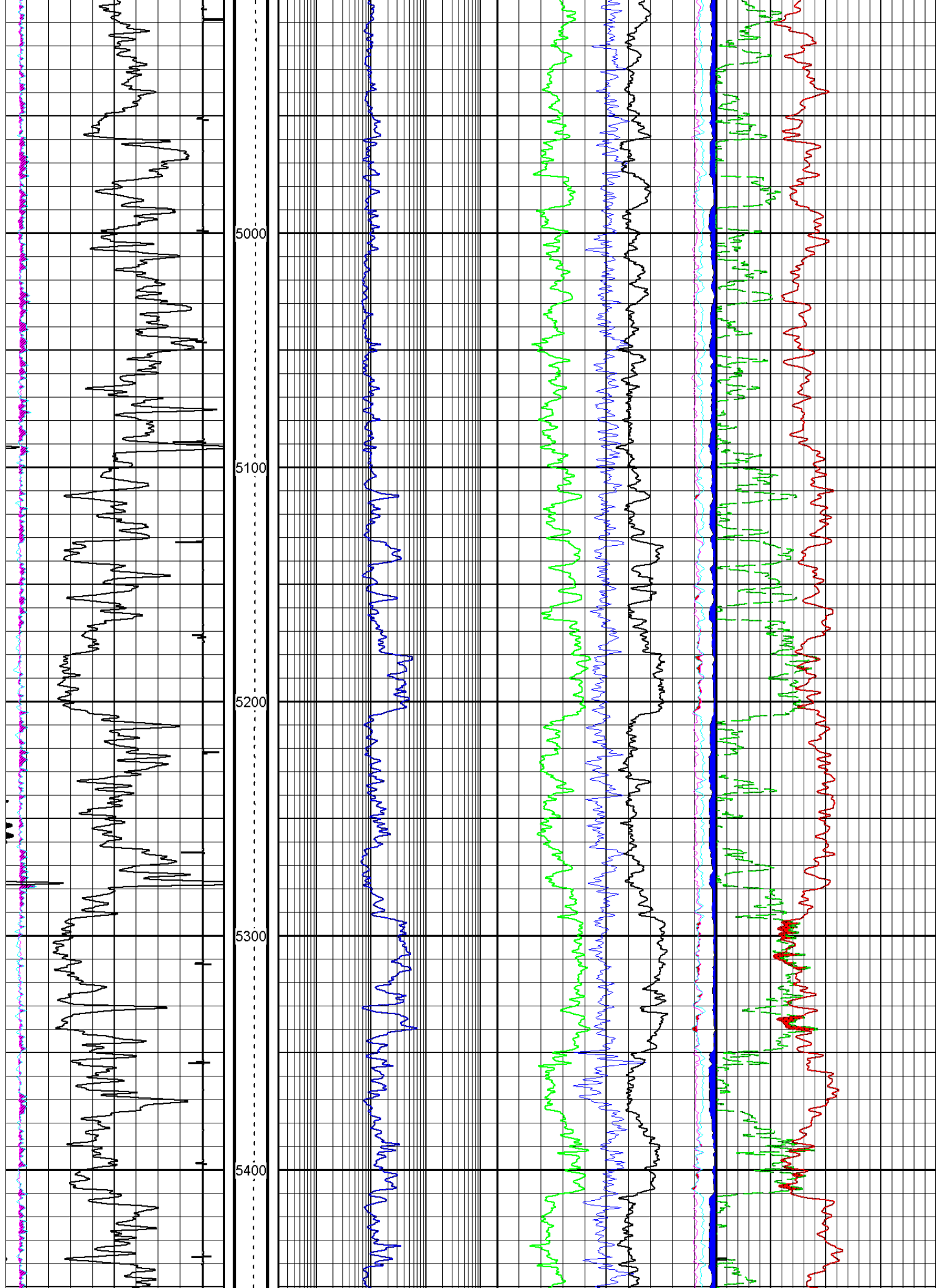


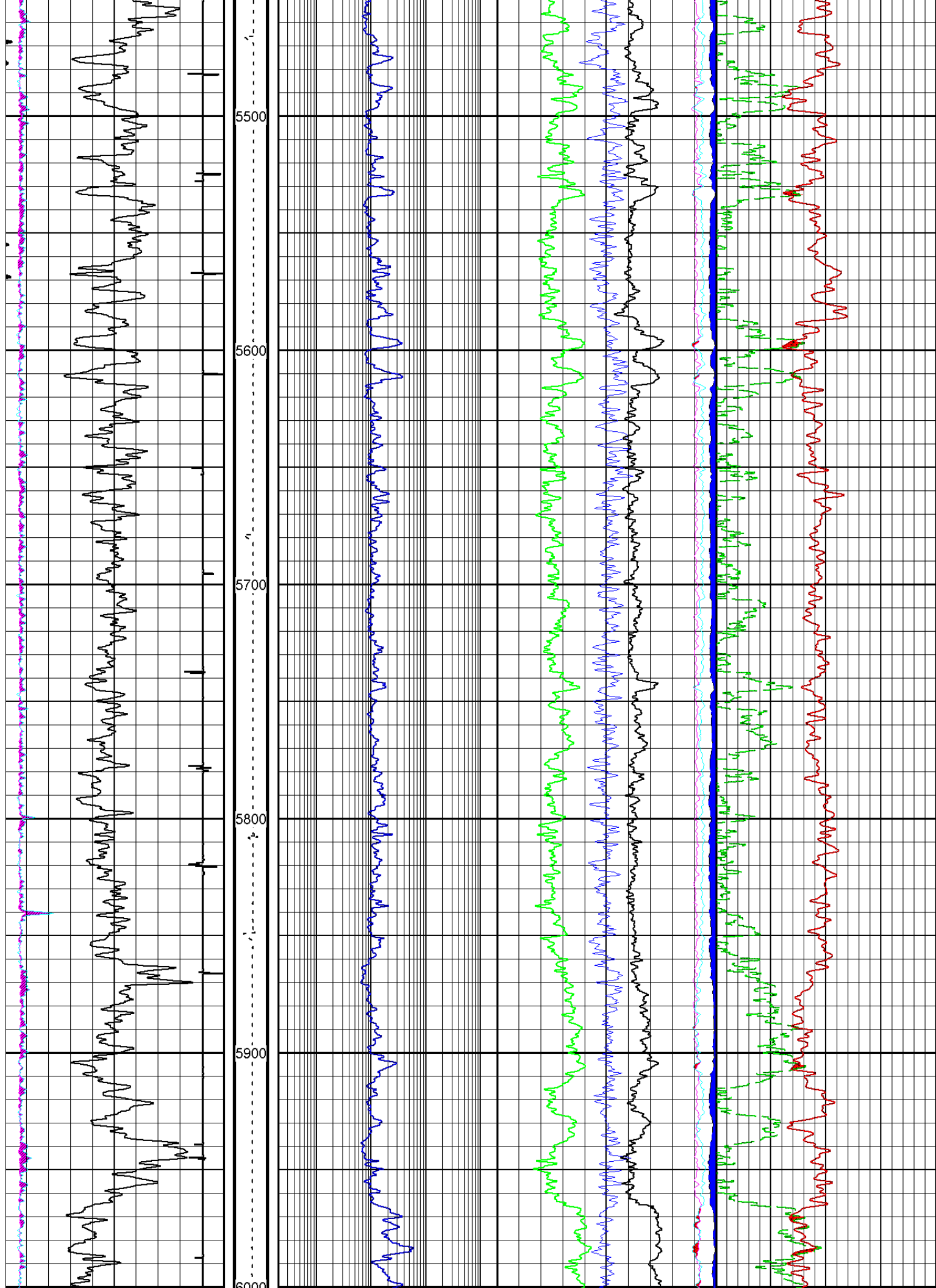


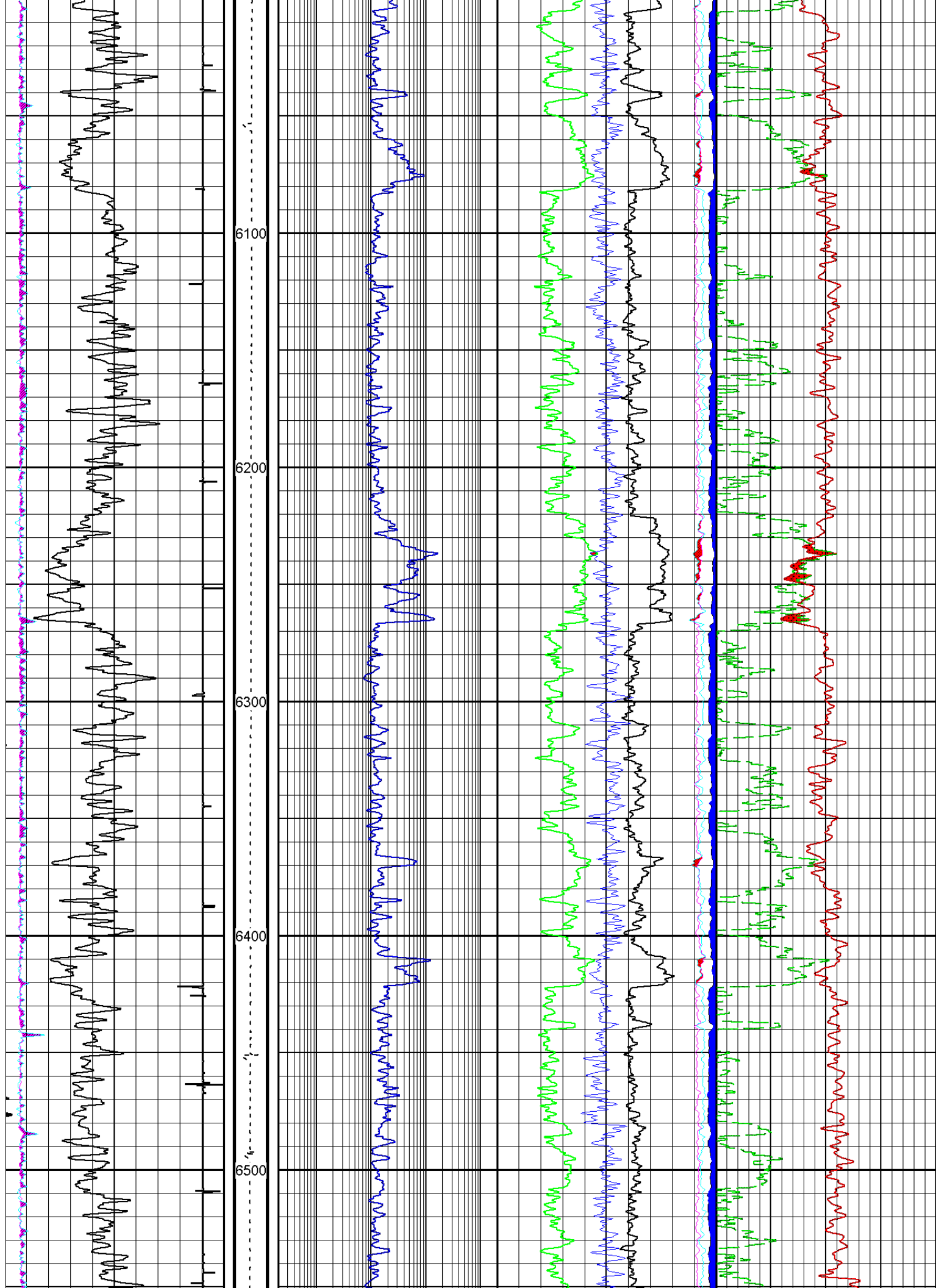


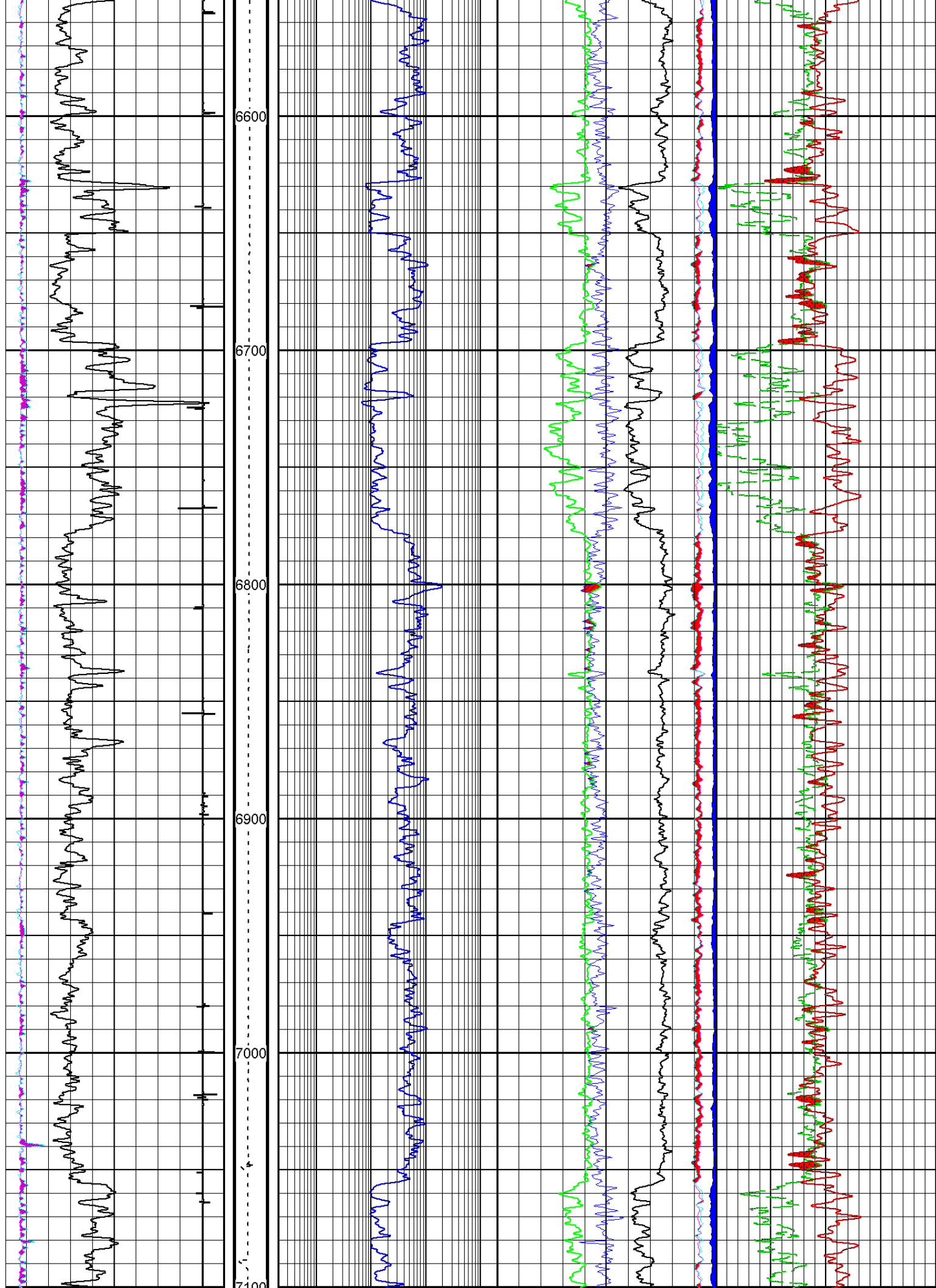




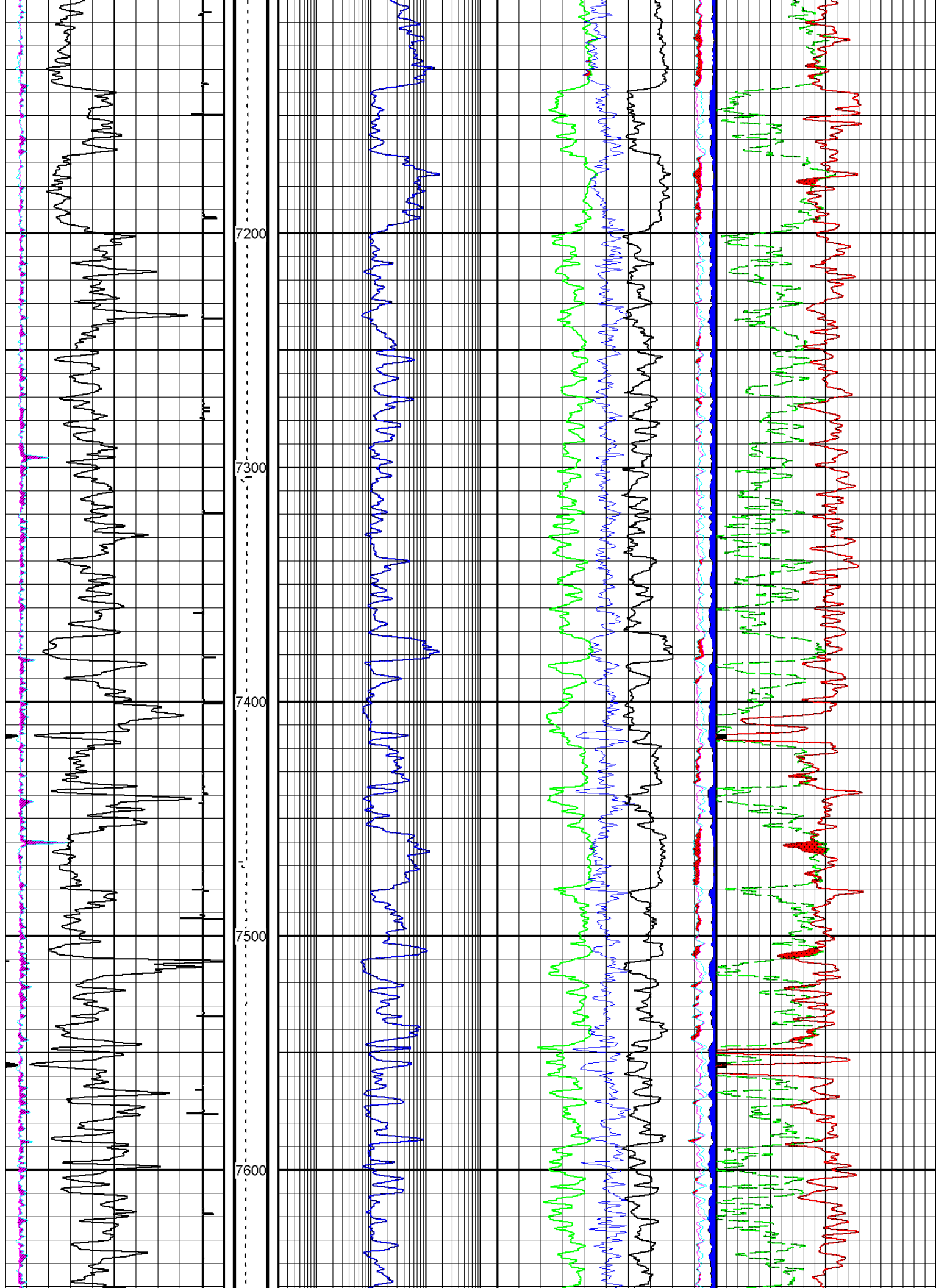




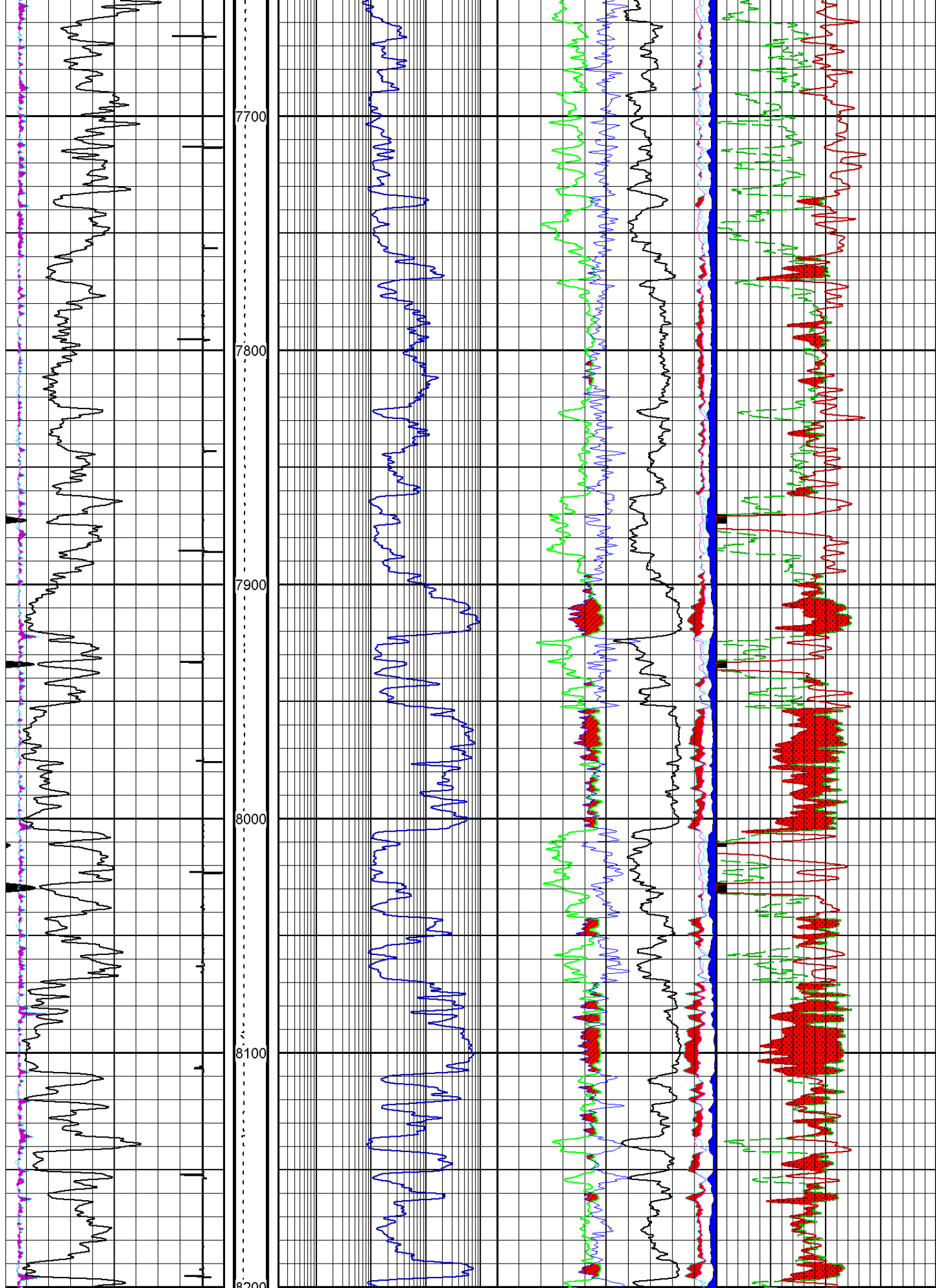


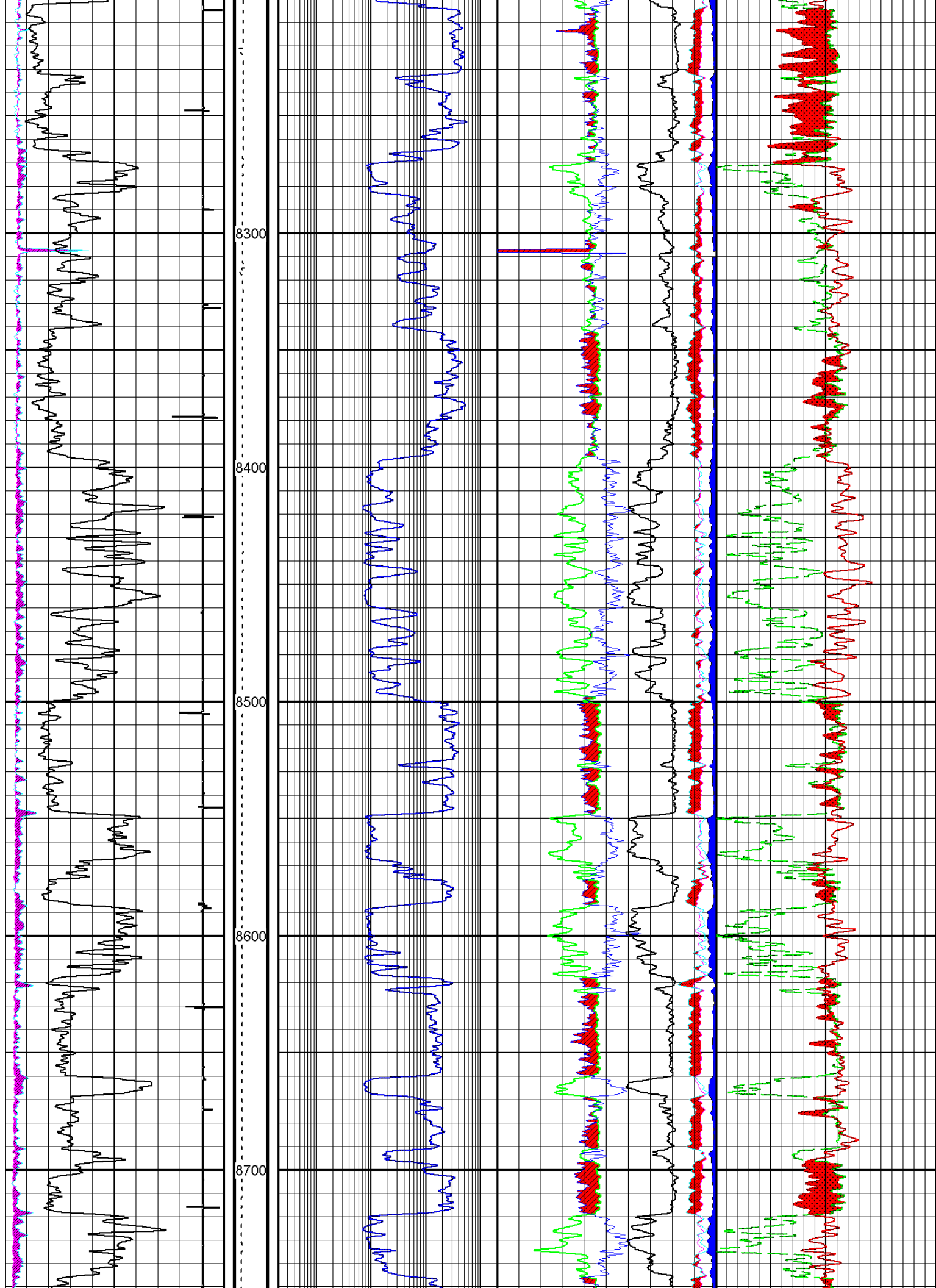


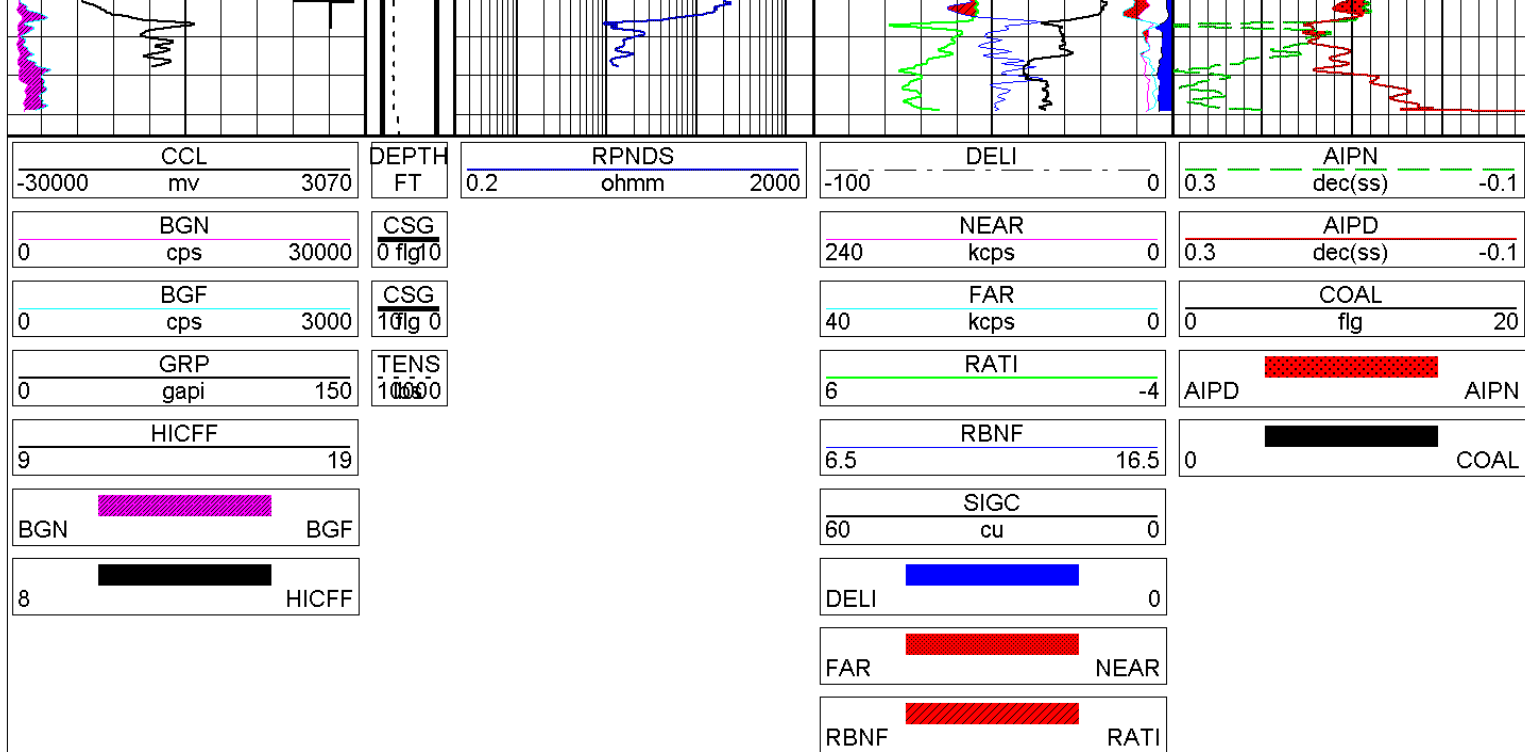




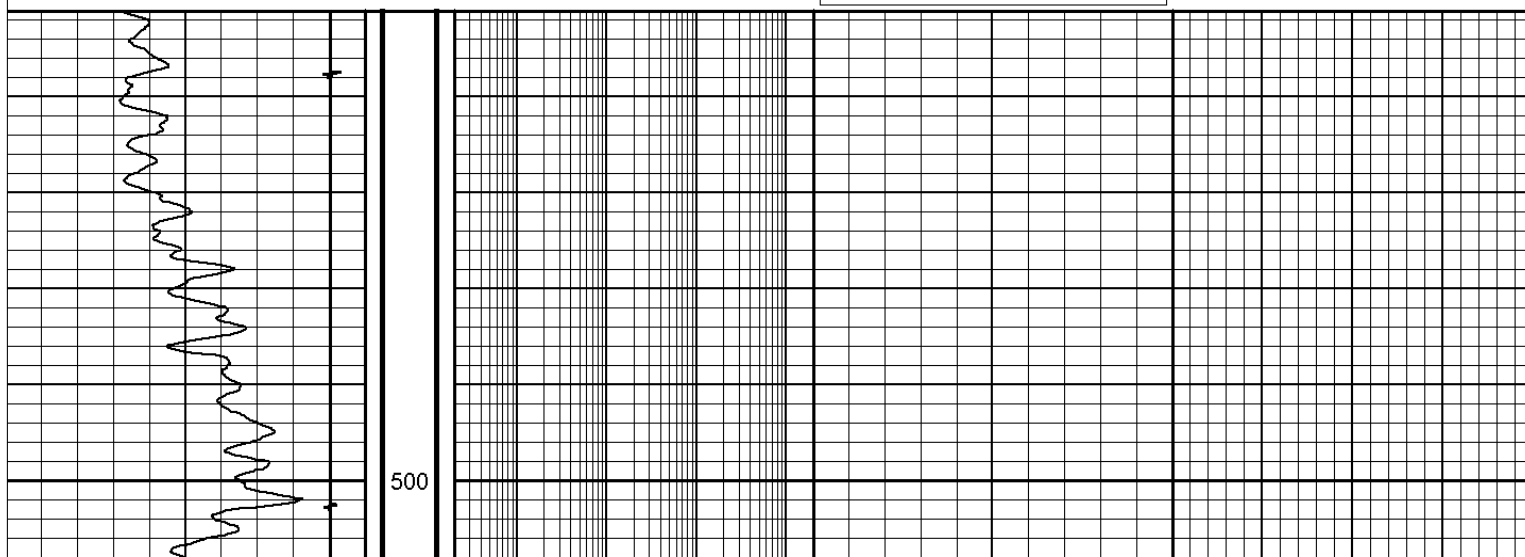
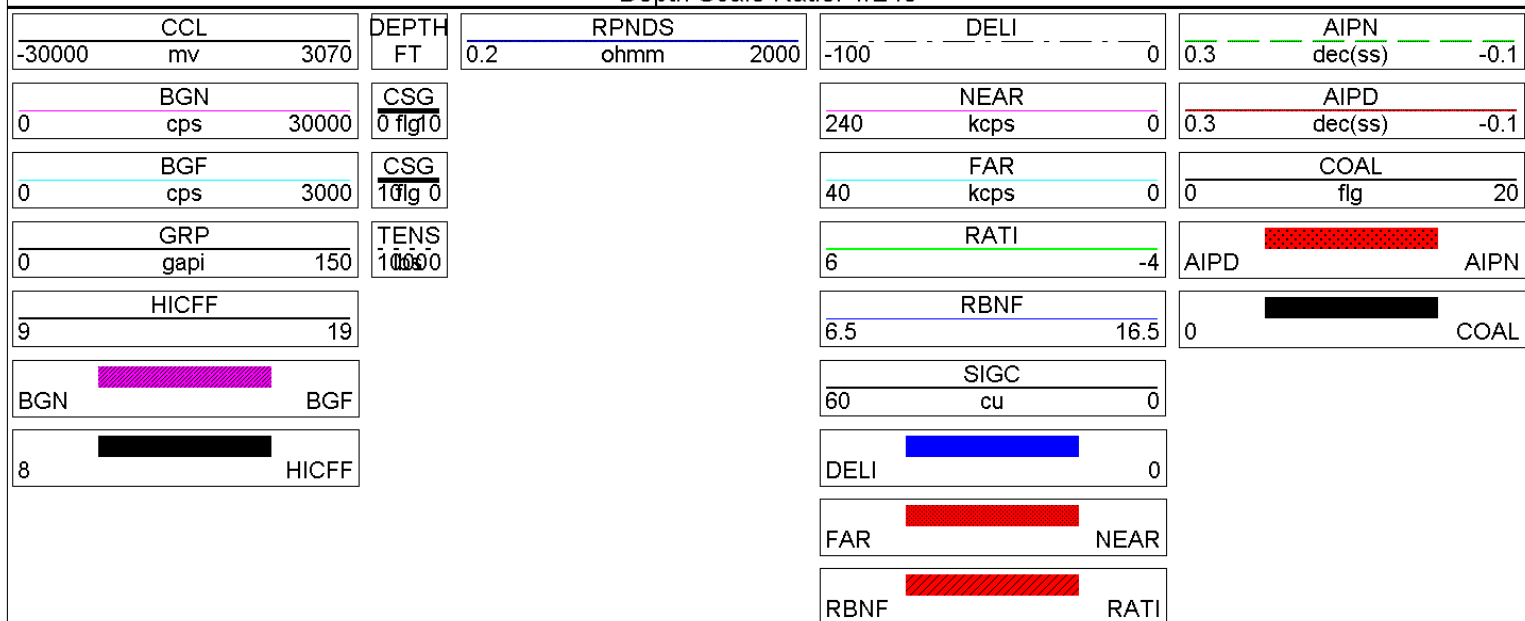


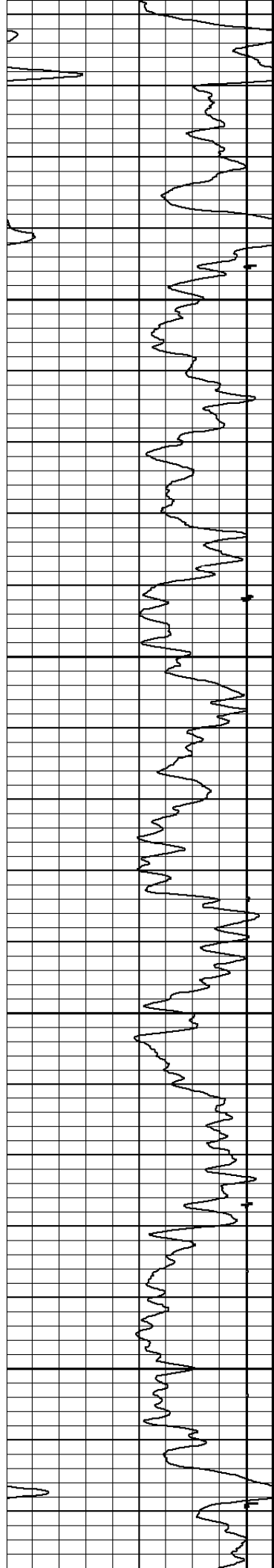






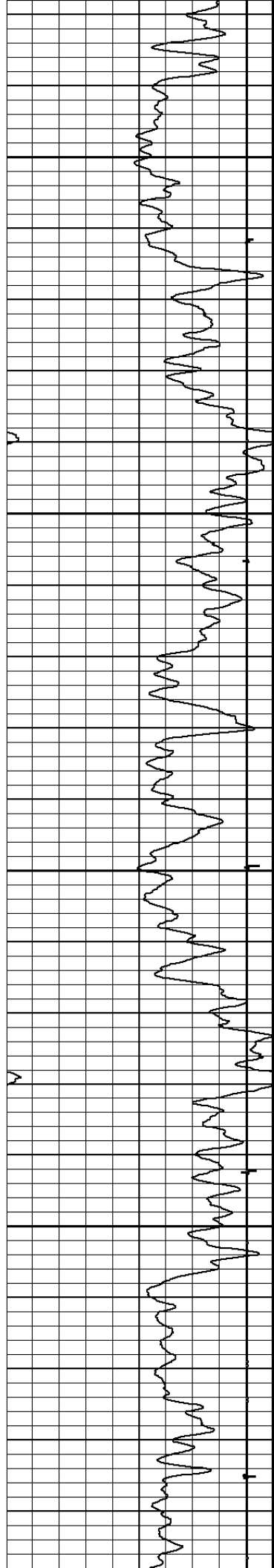
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DEPTH (FT)  
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Depth Scale Ratio: 1/240





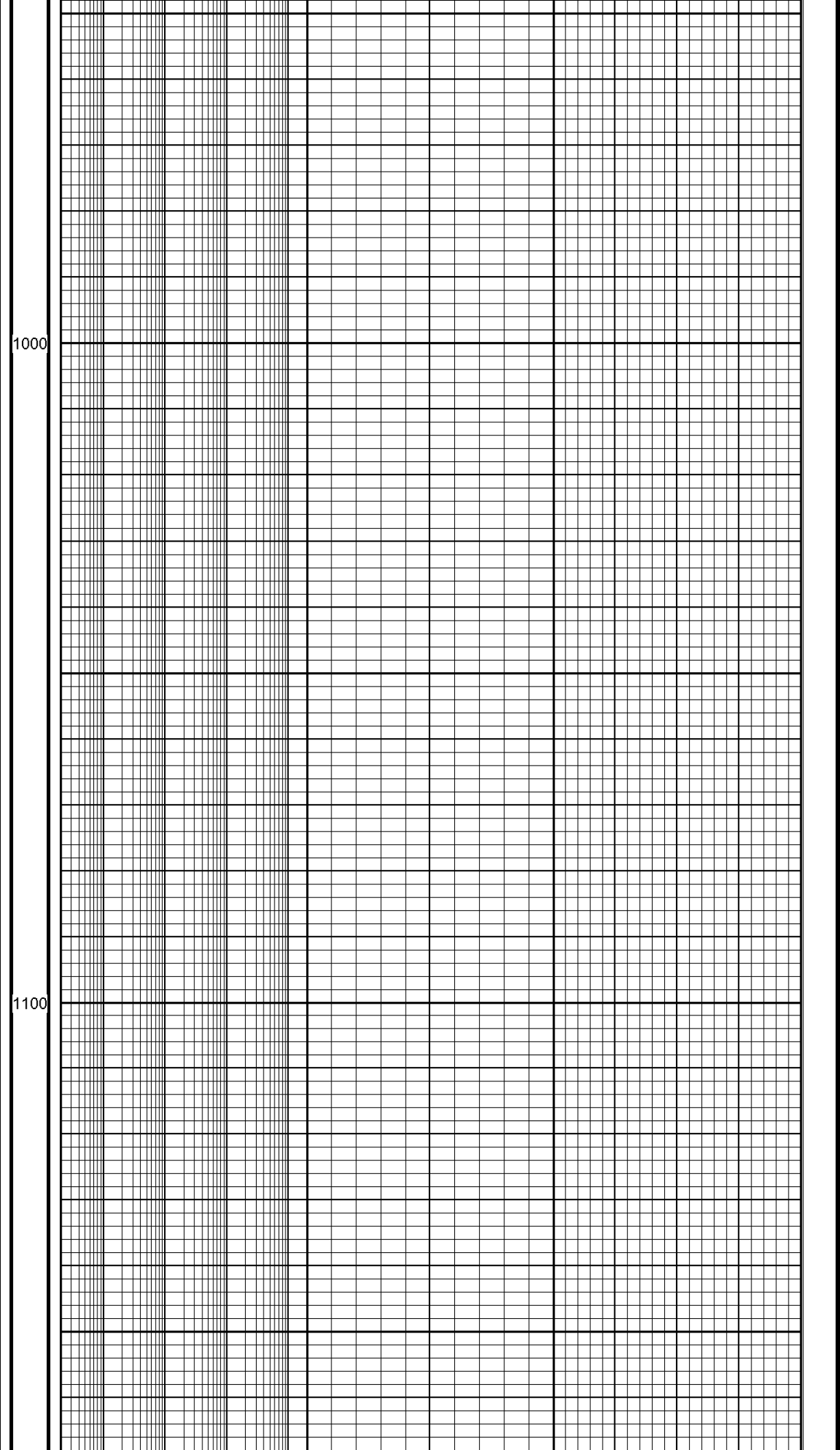
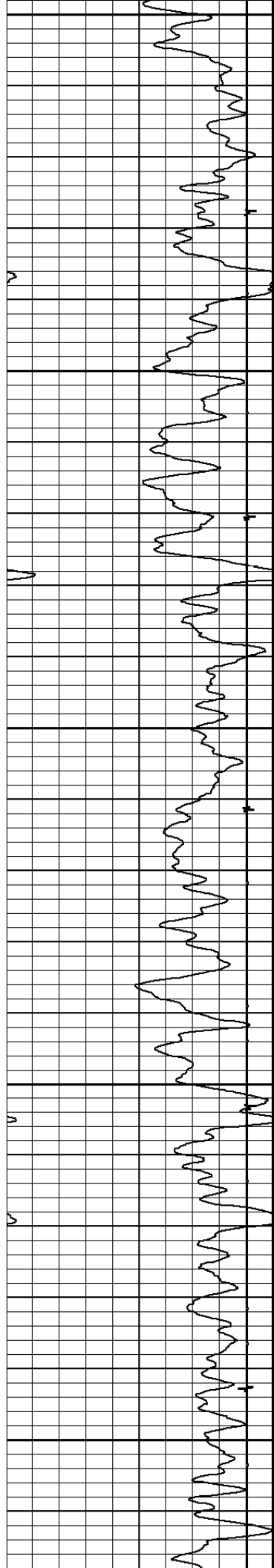
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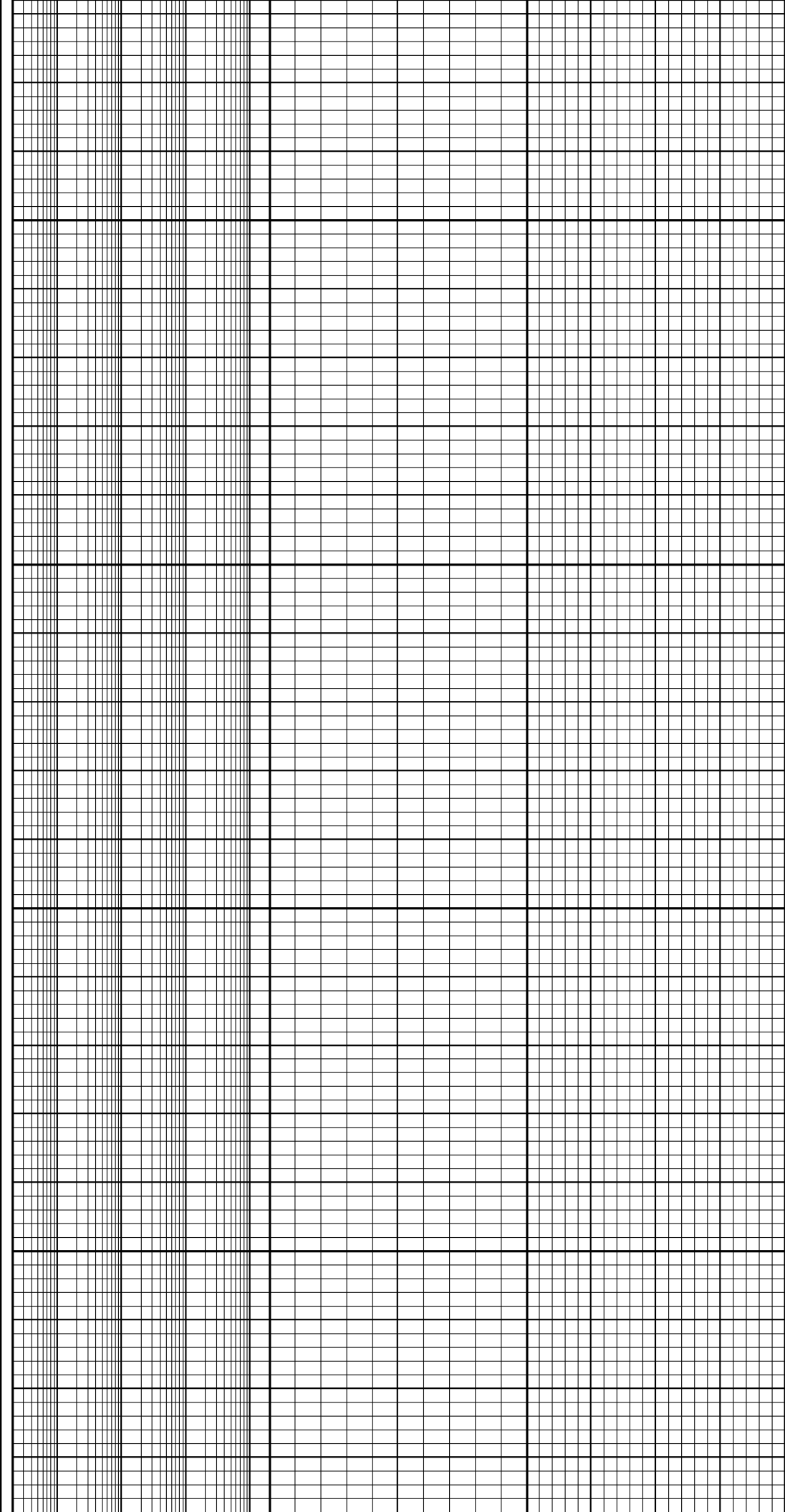
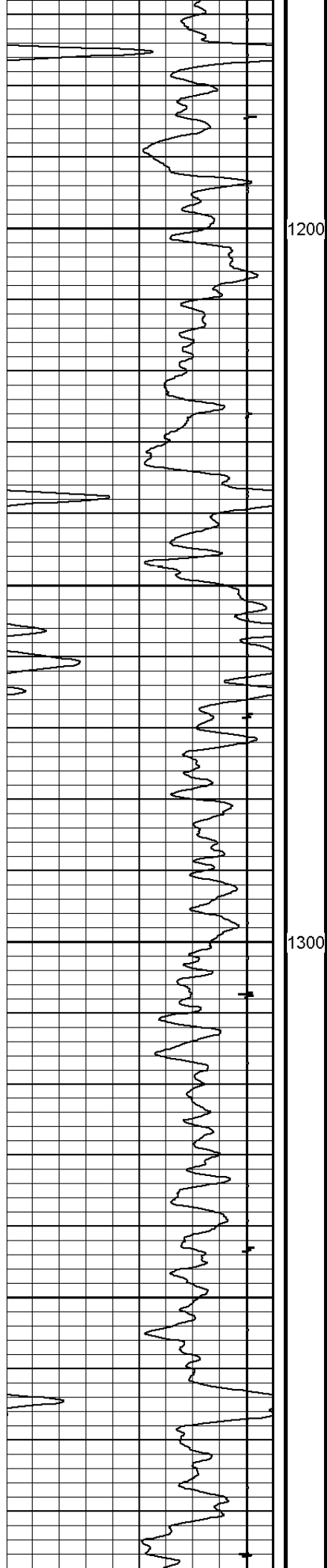
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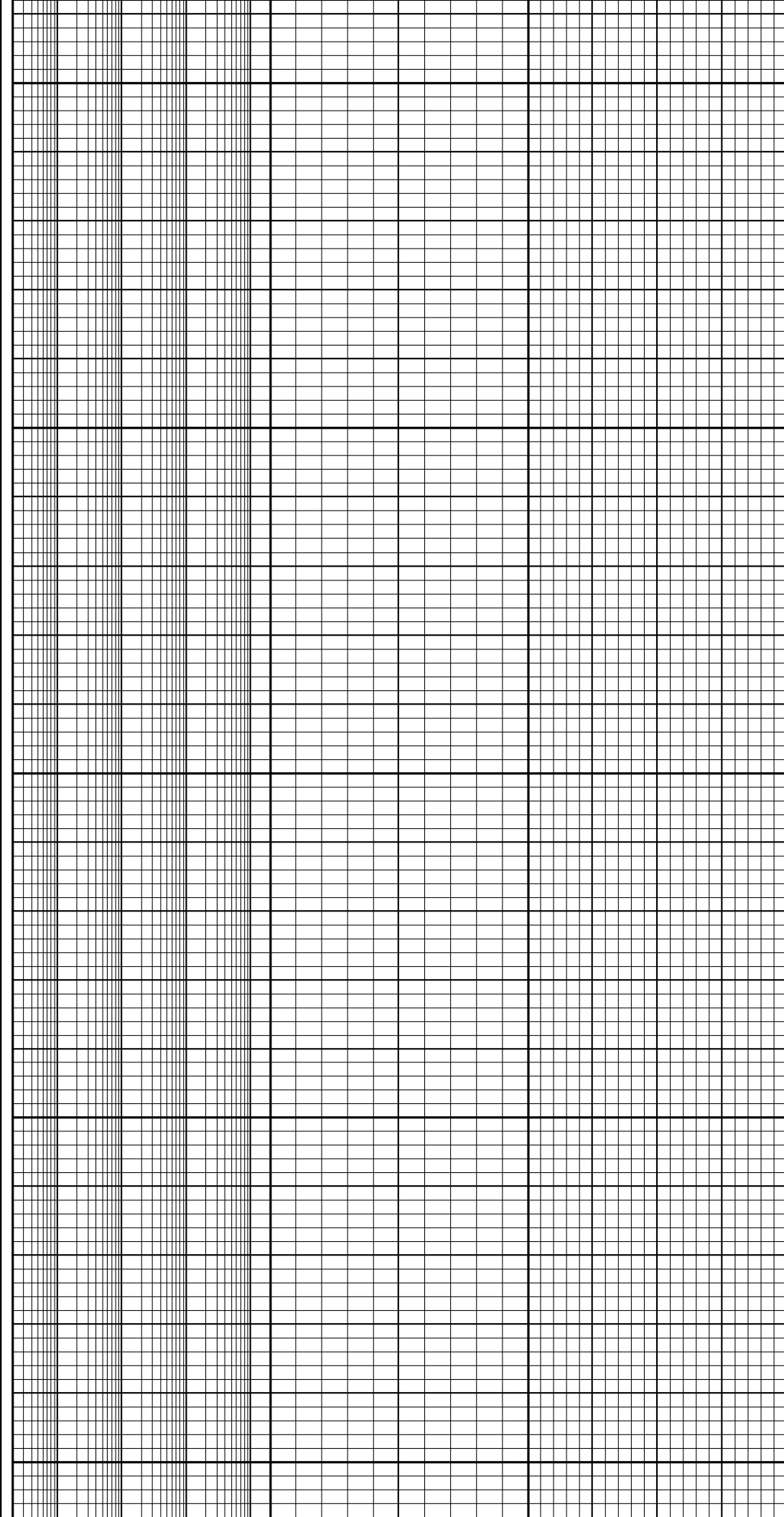
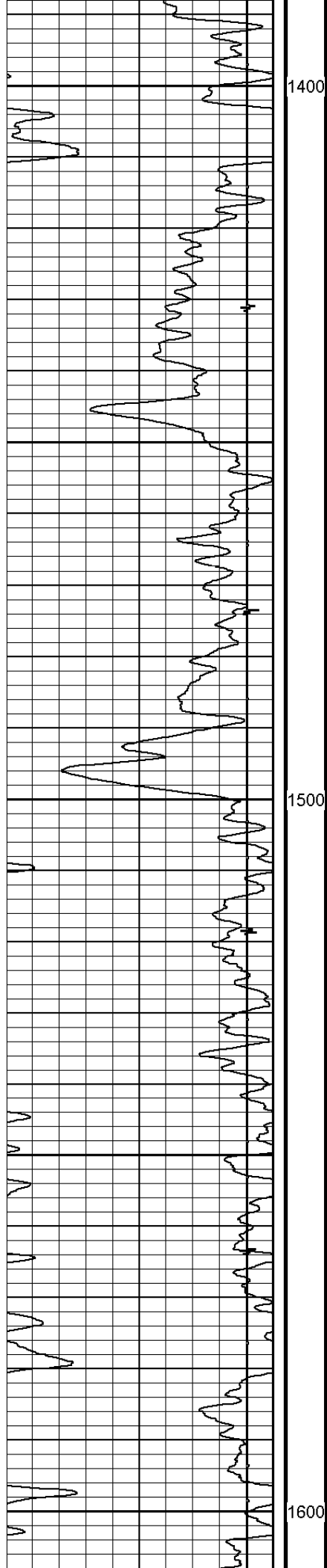


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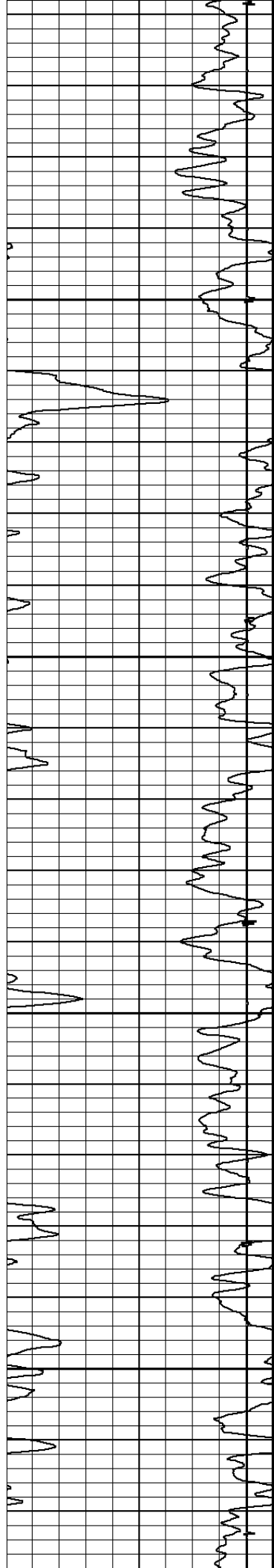
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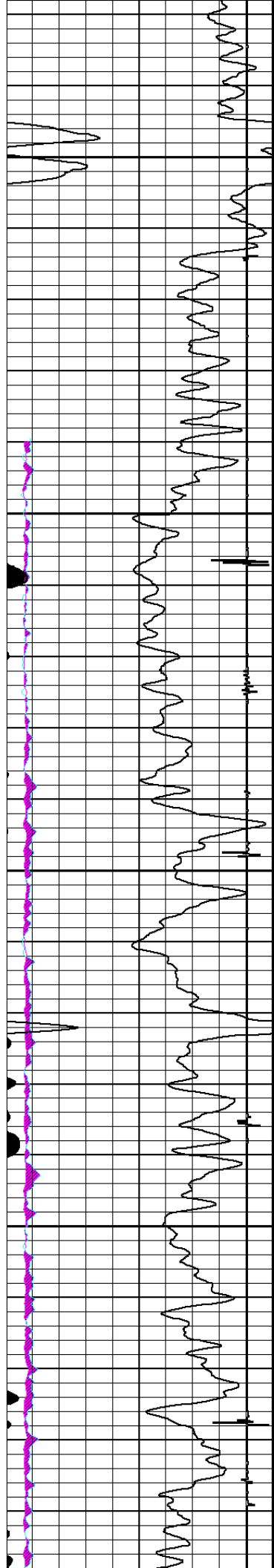






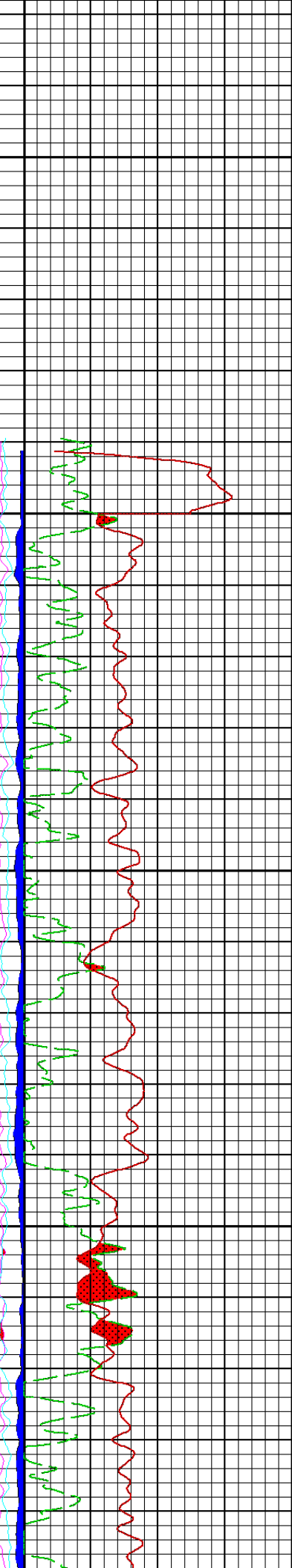
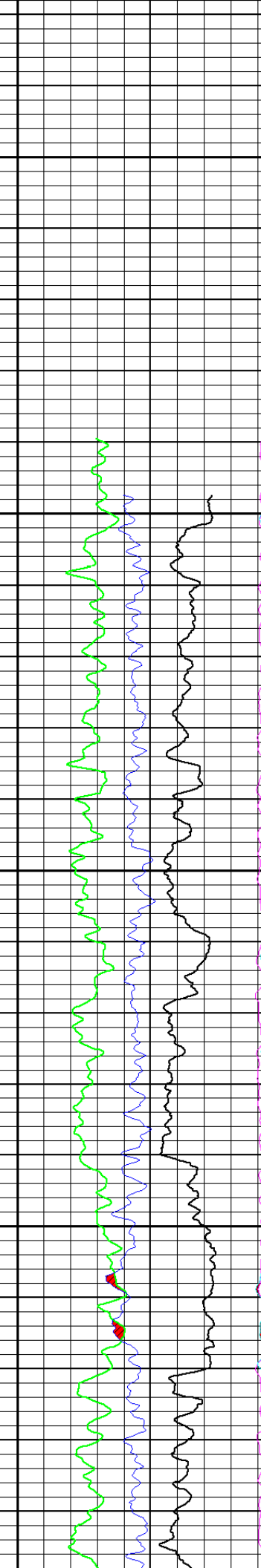
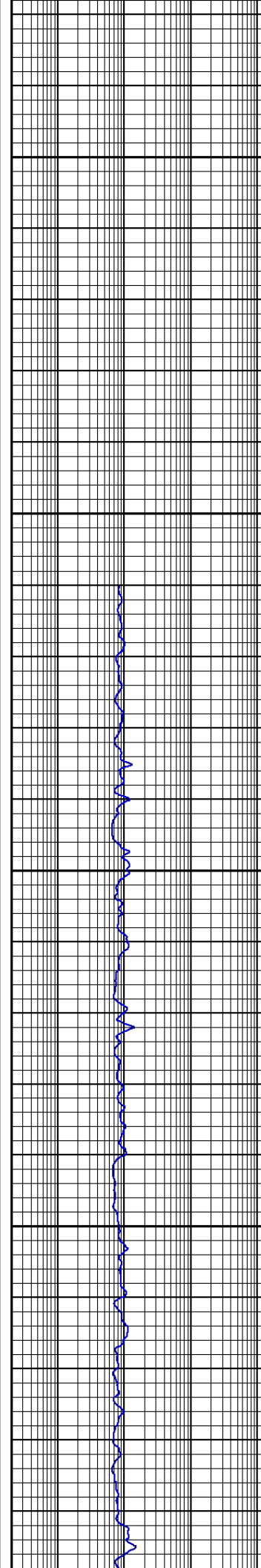
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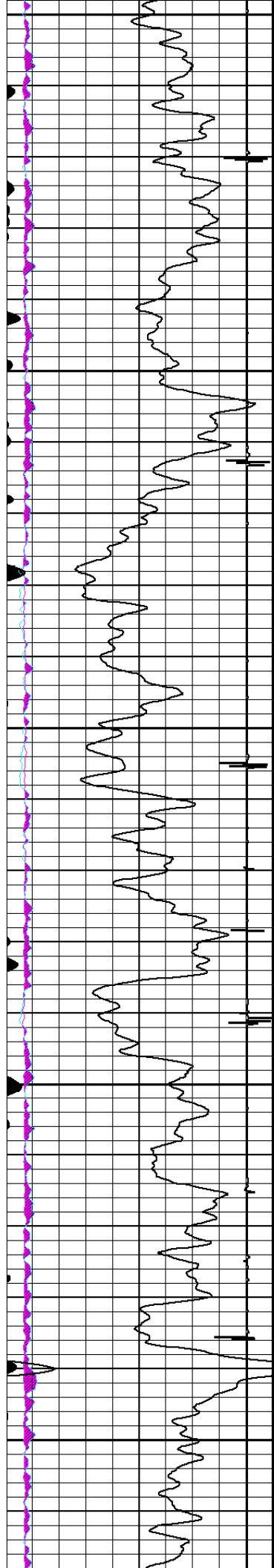
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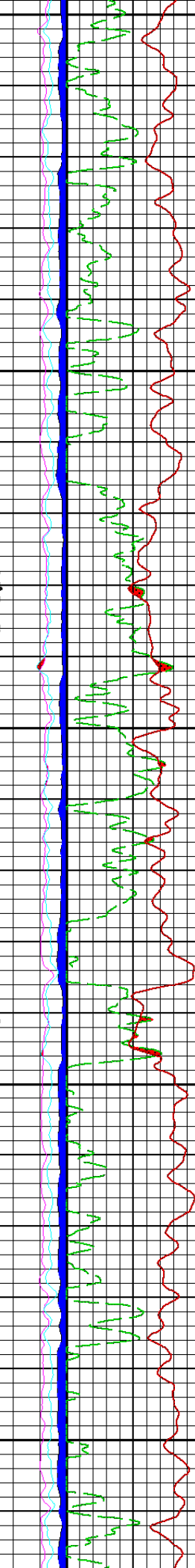
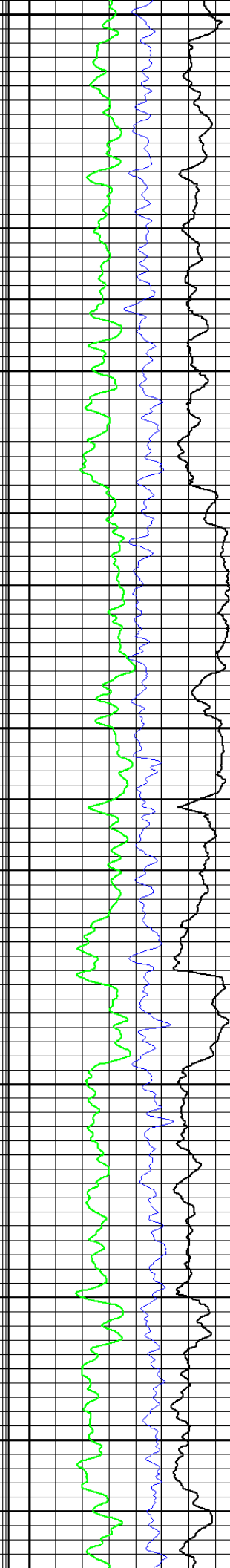
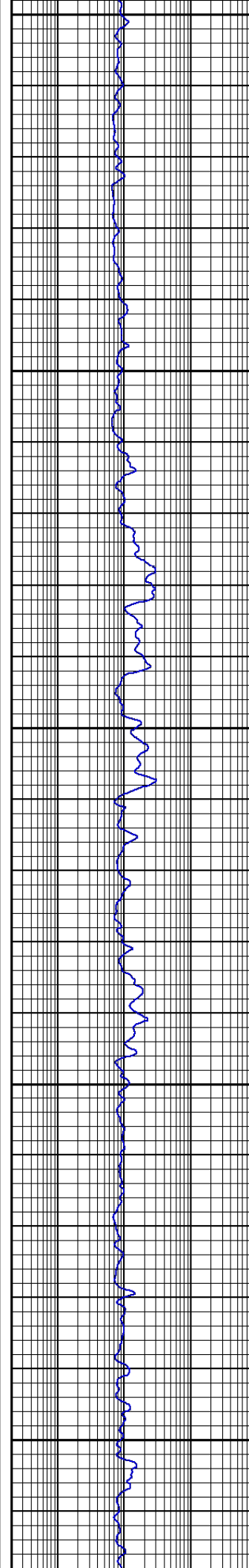
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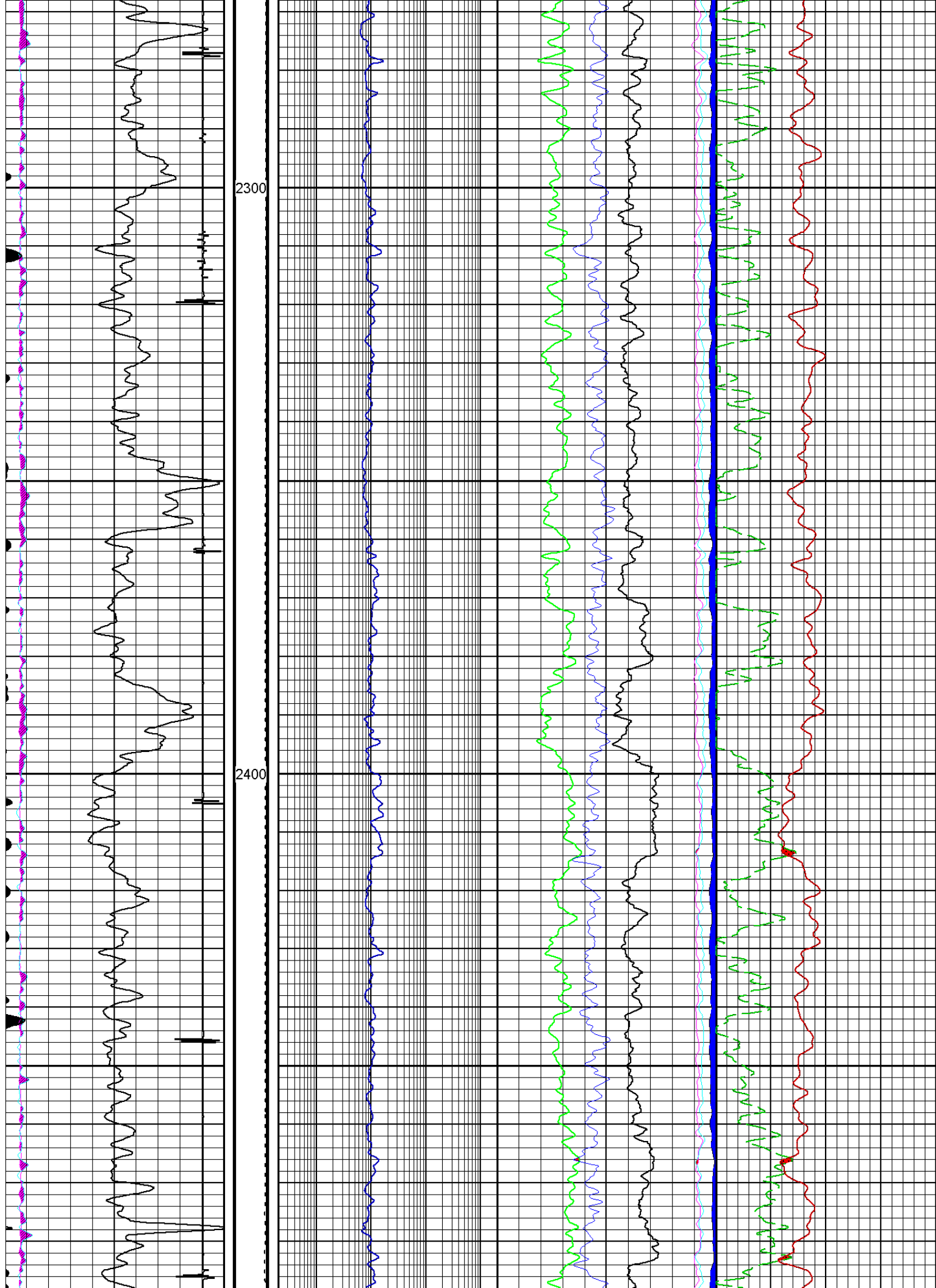


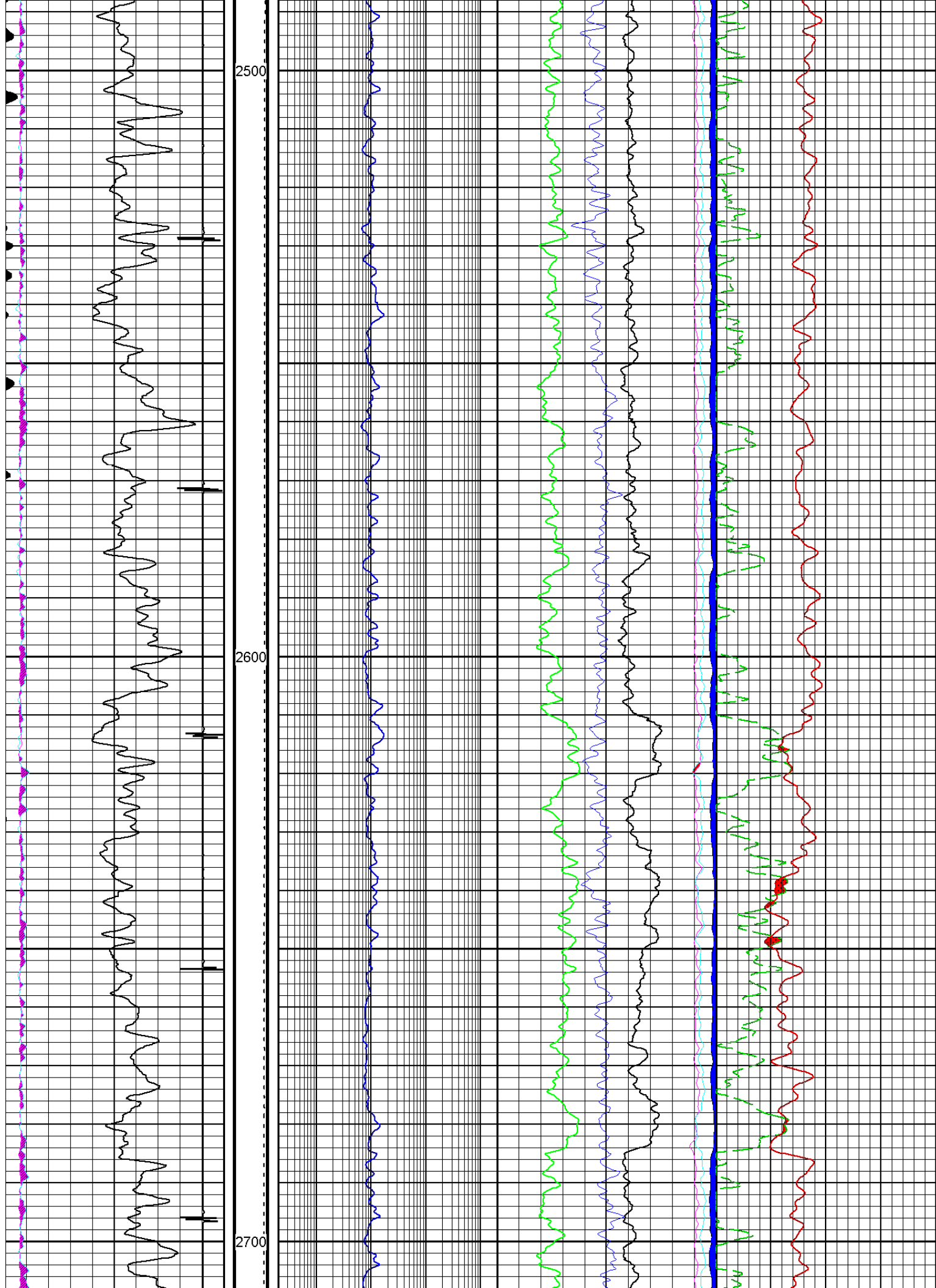


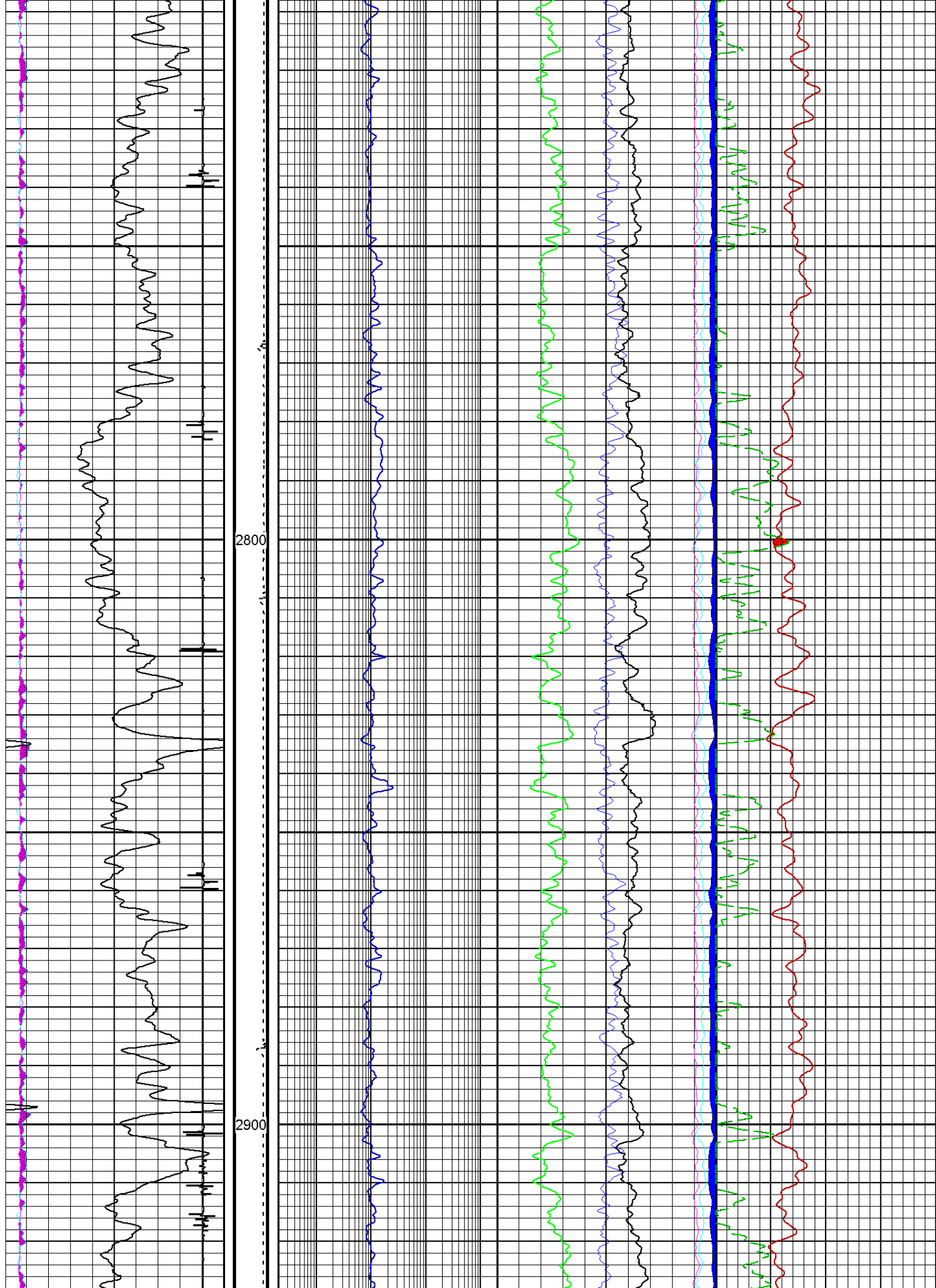
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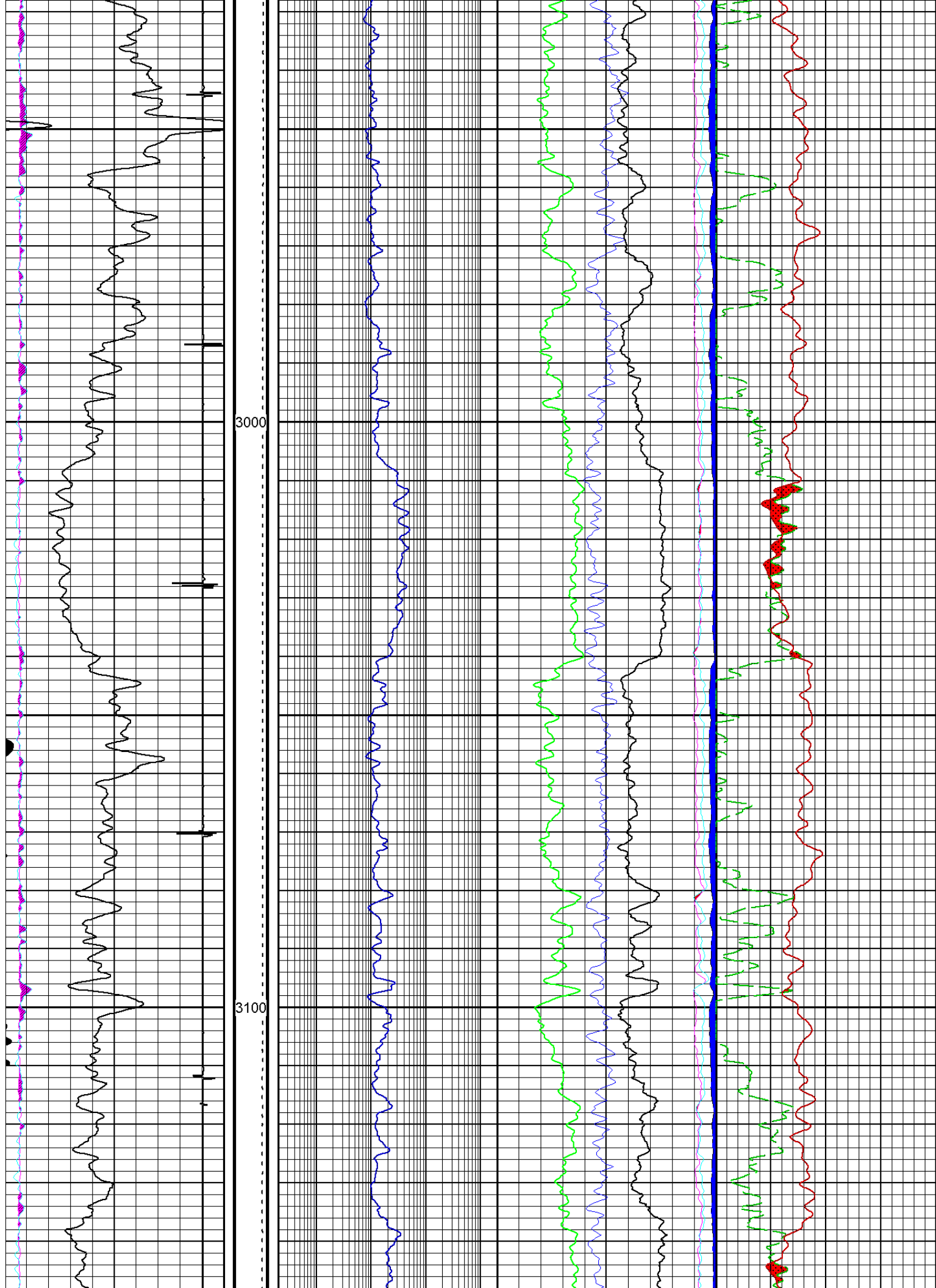
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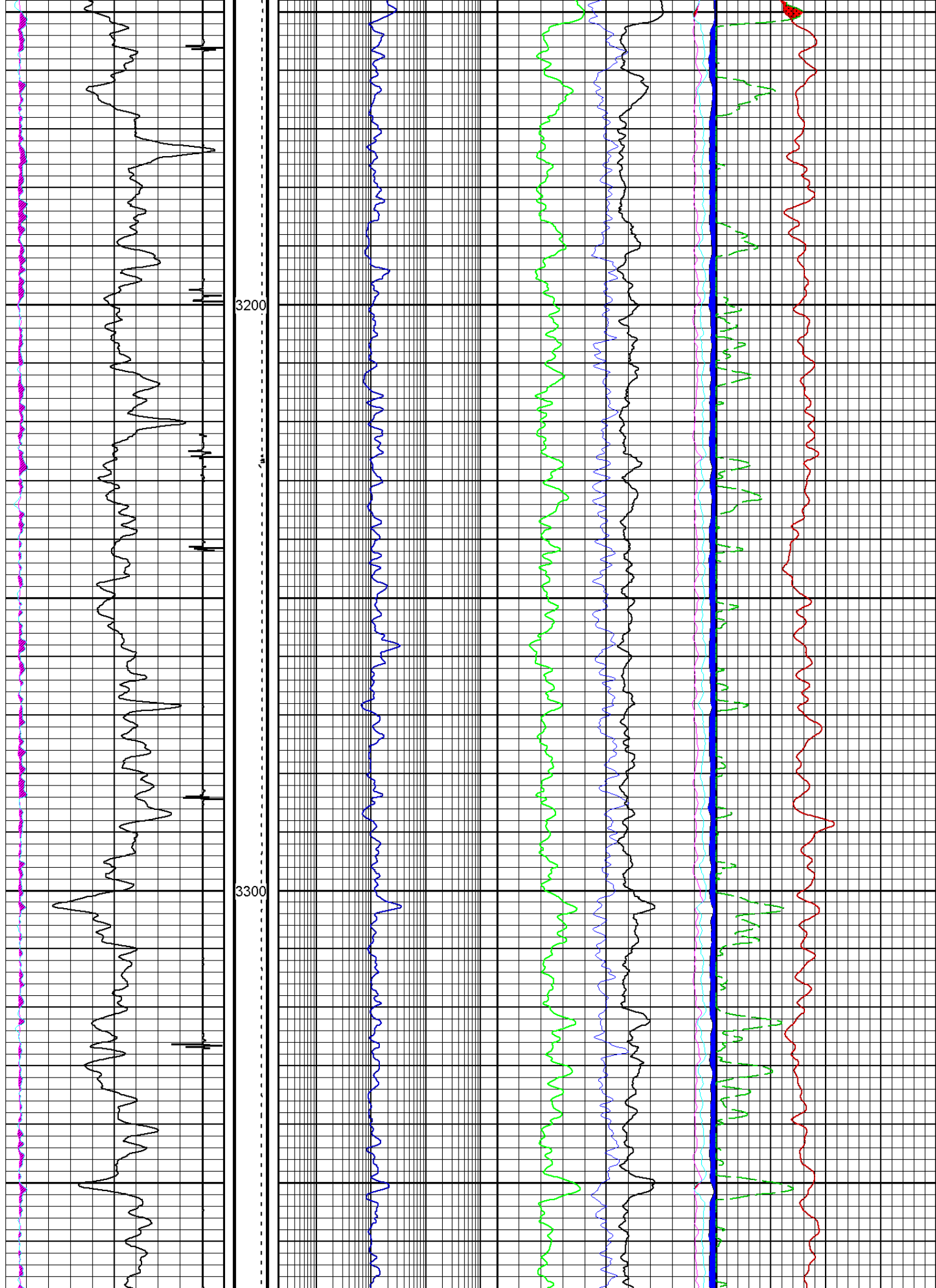




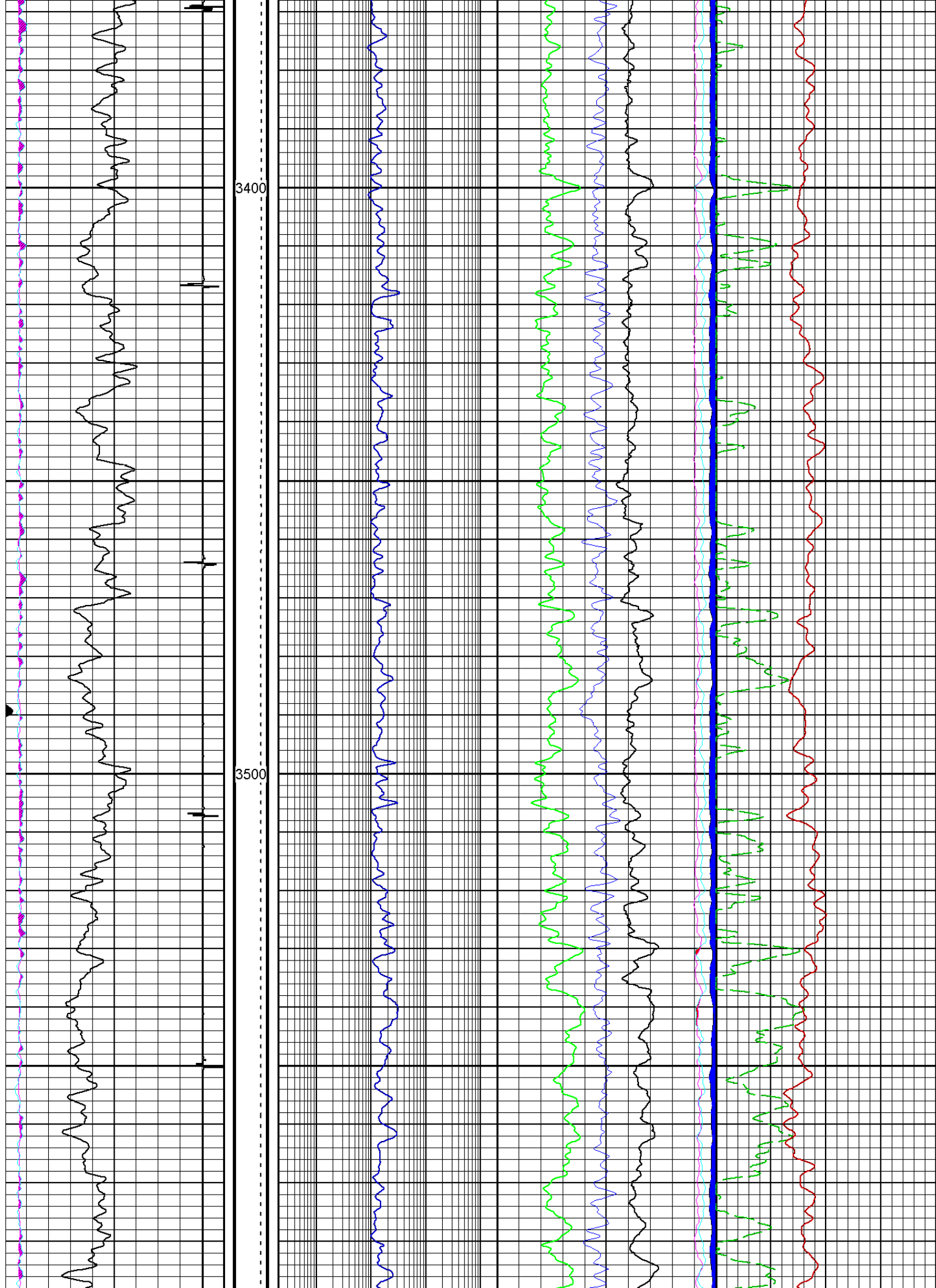


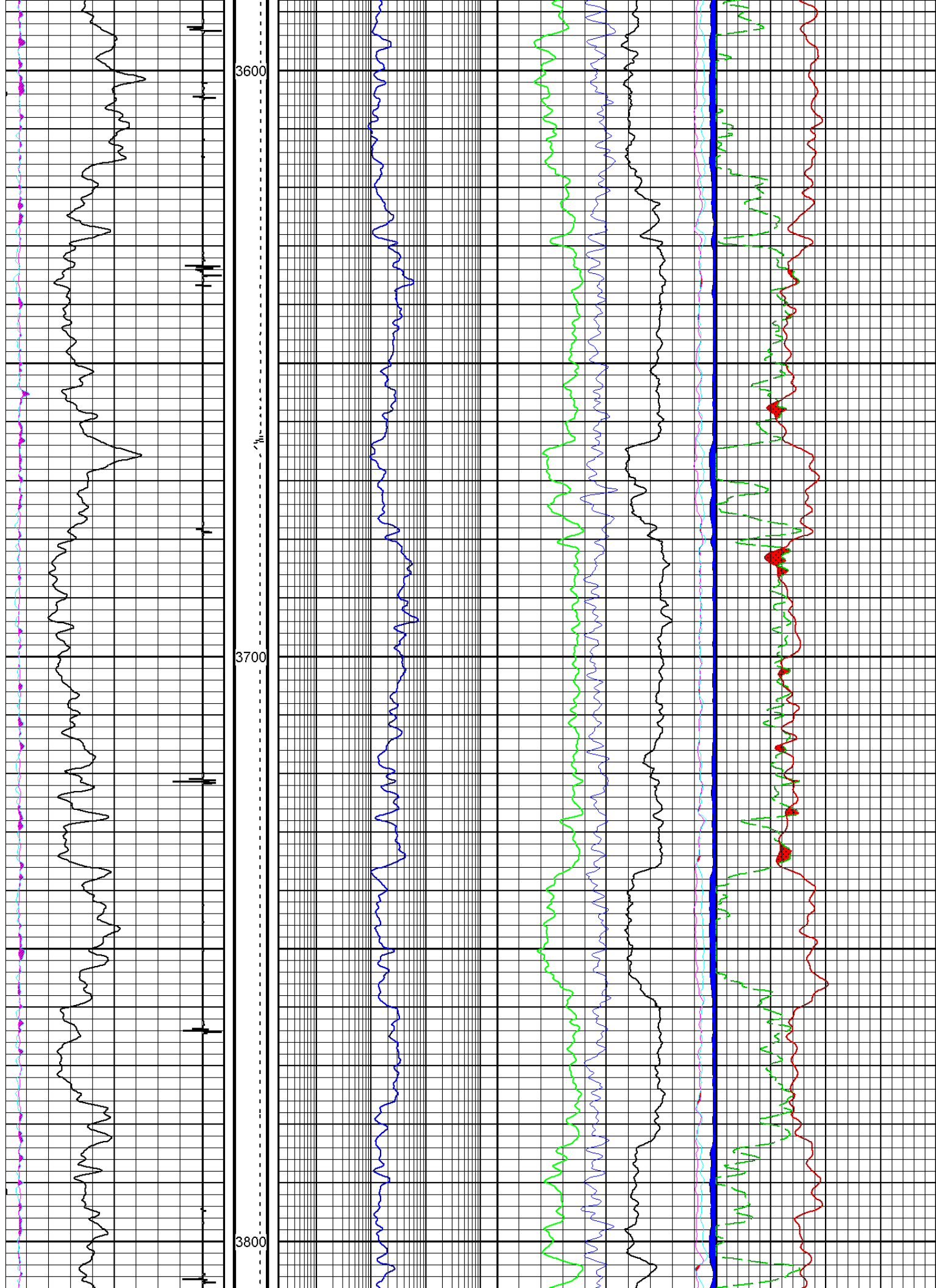


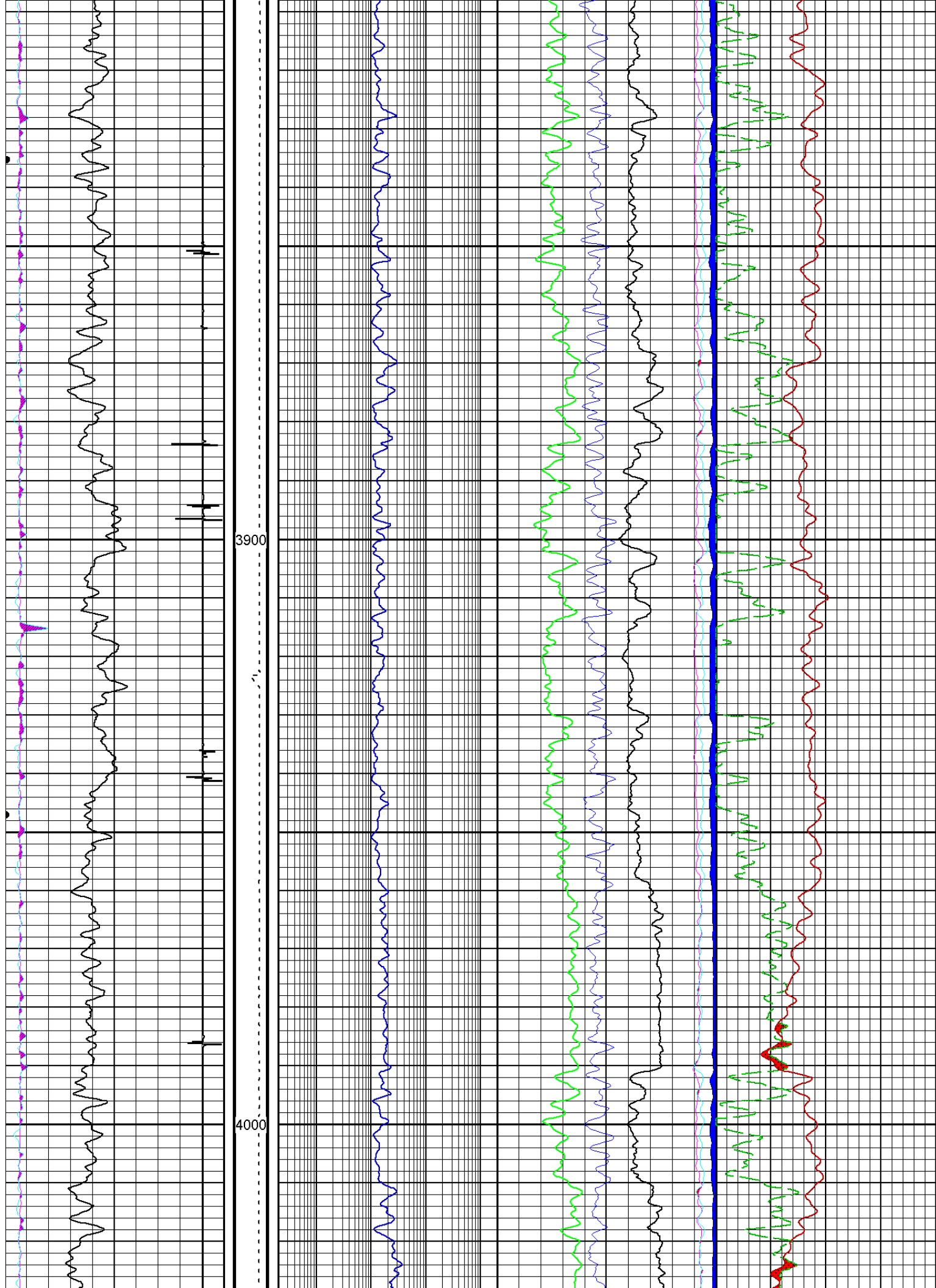


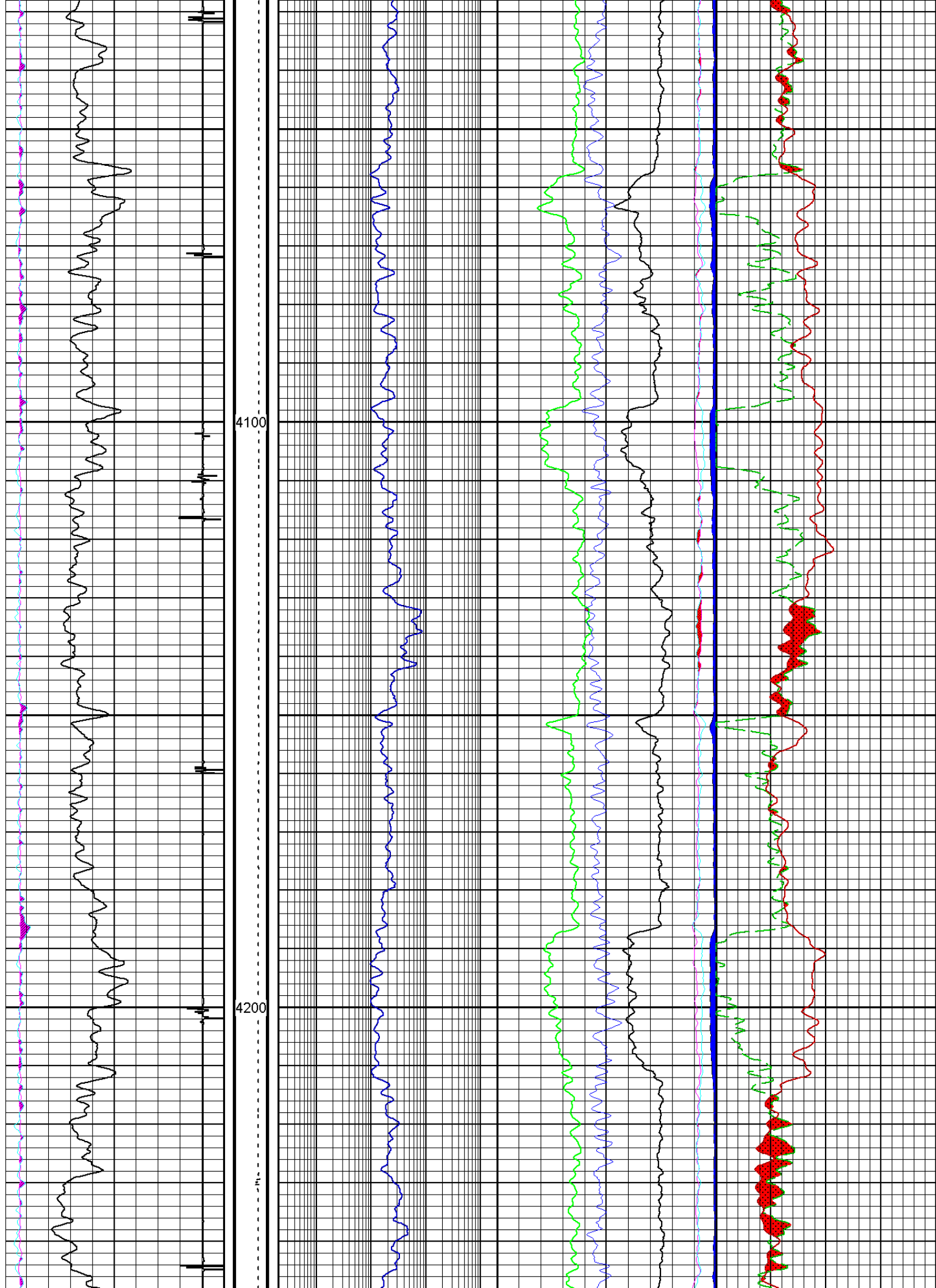


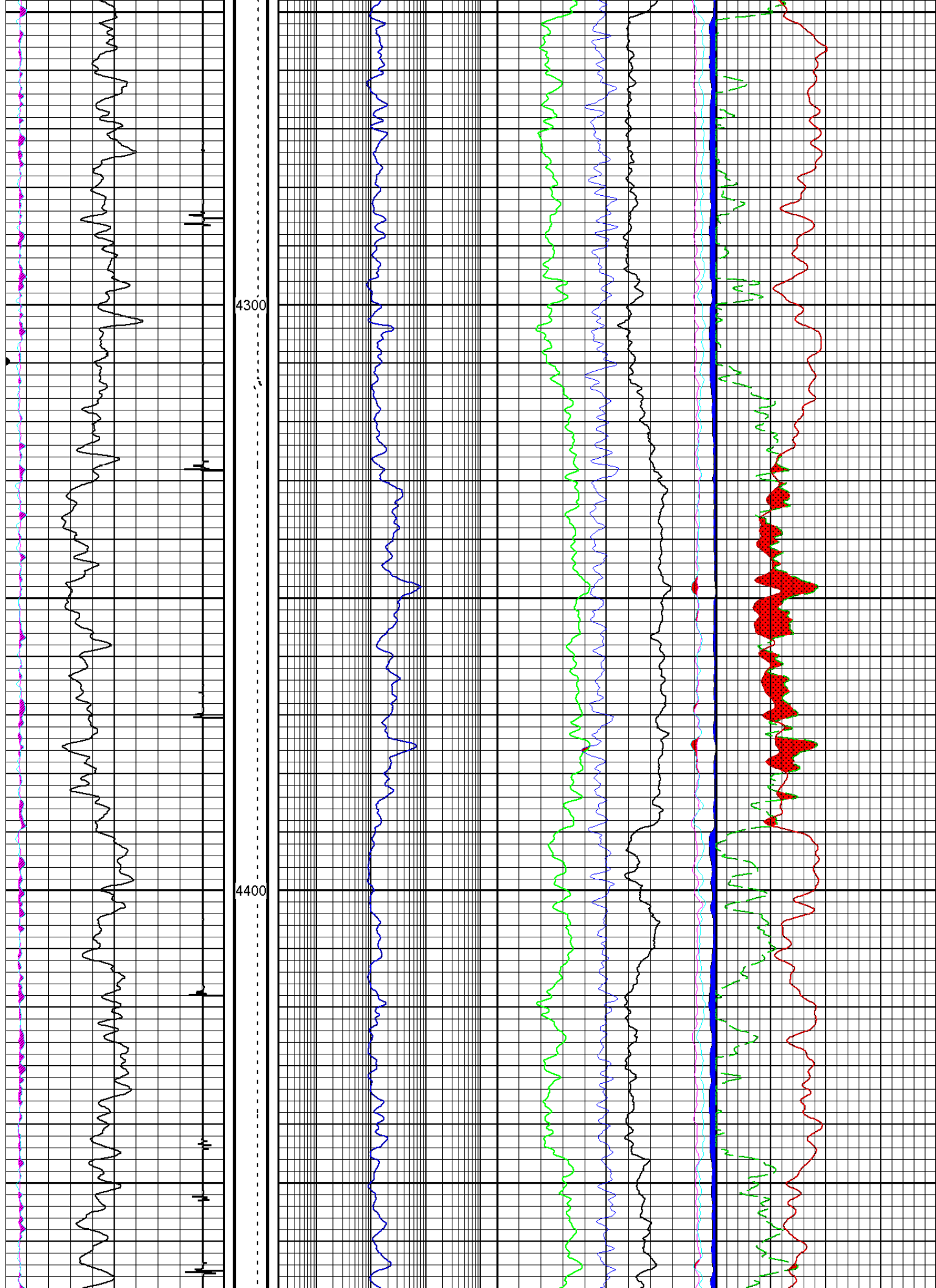


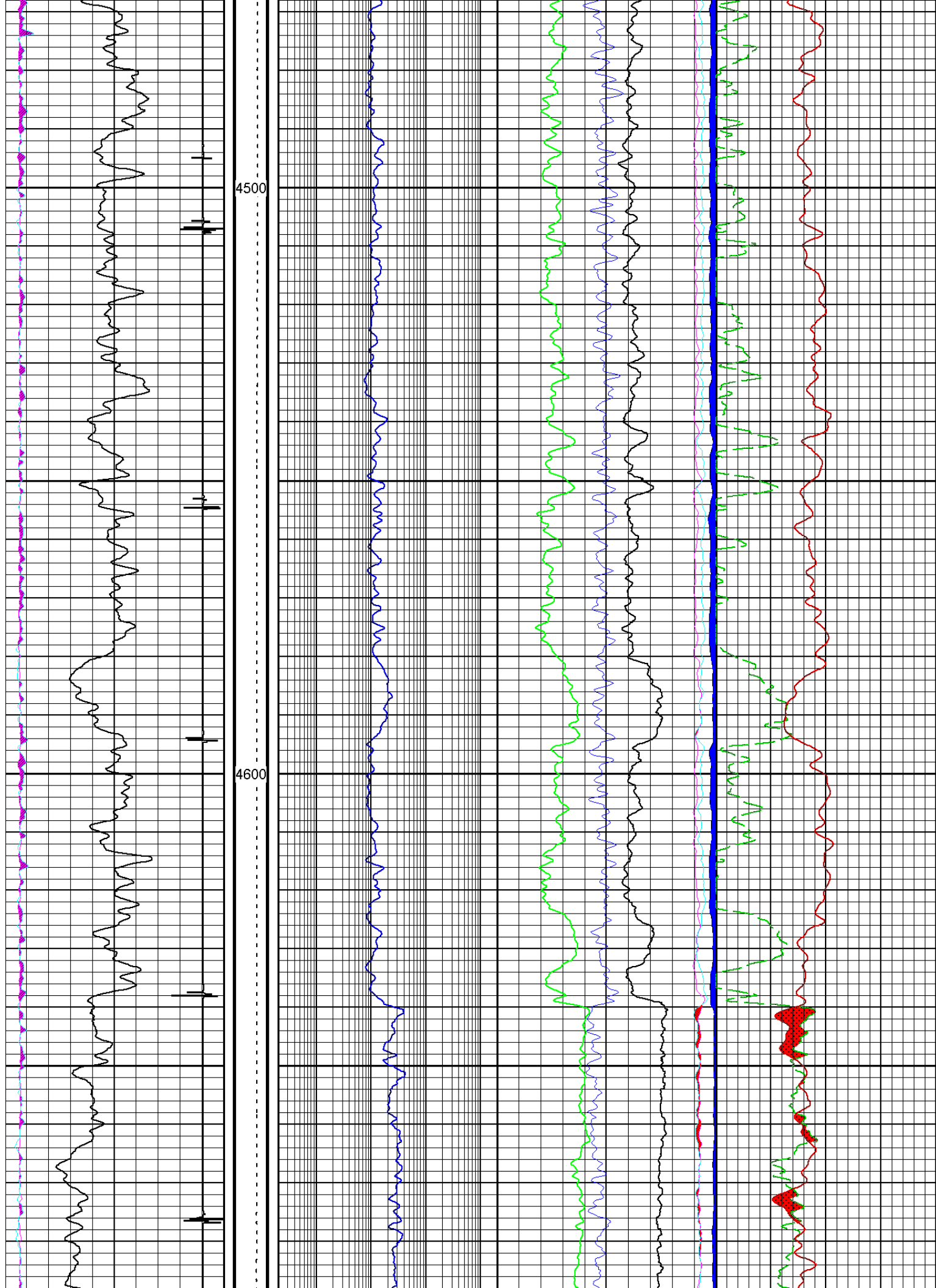


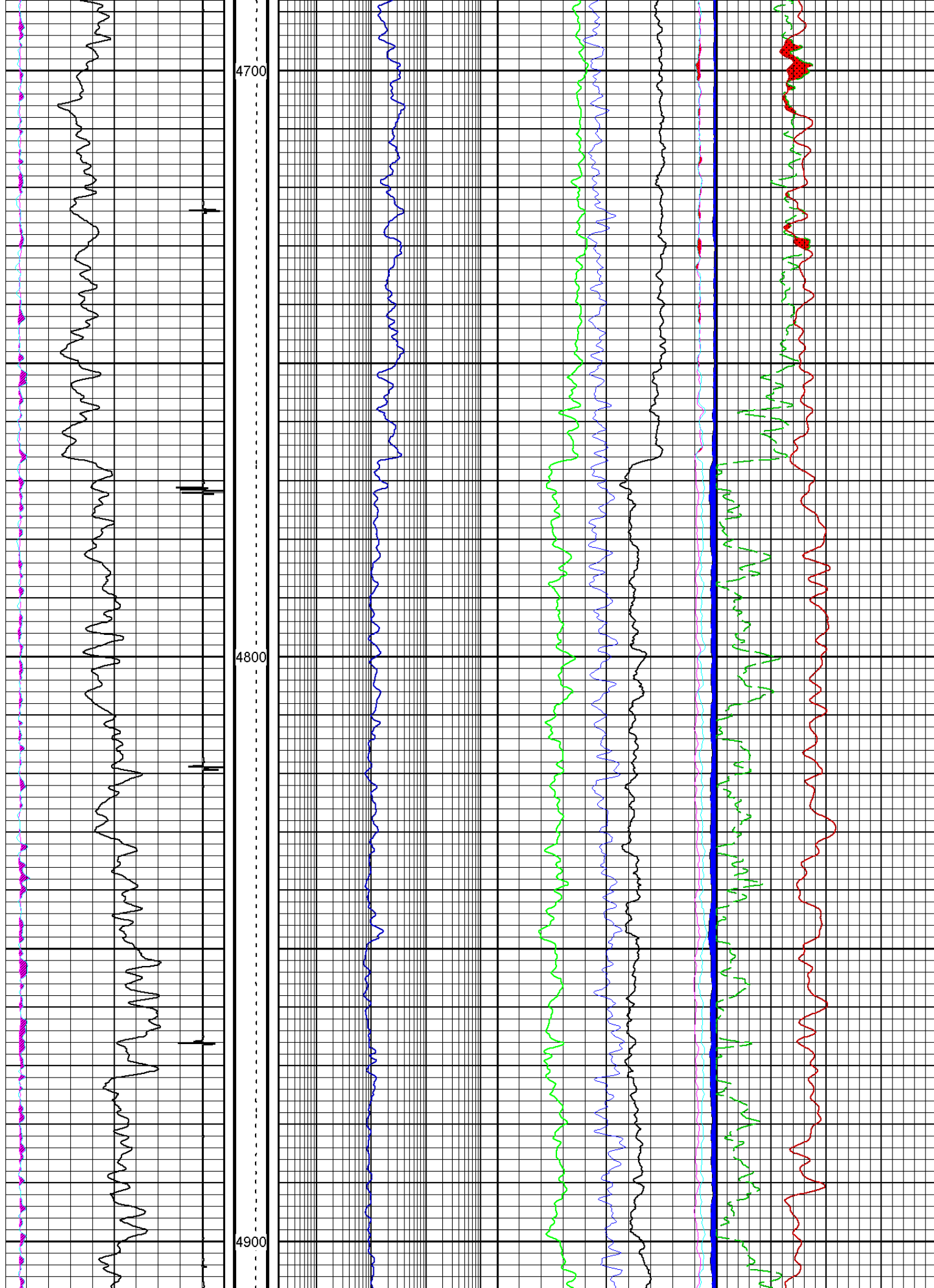




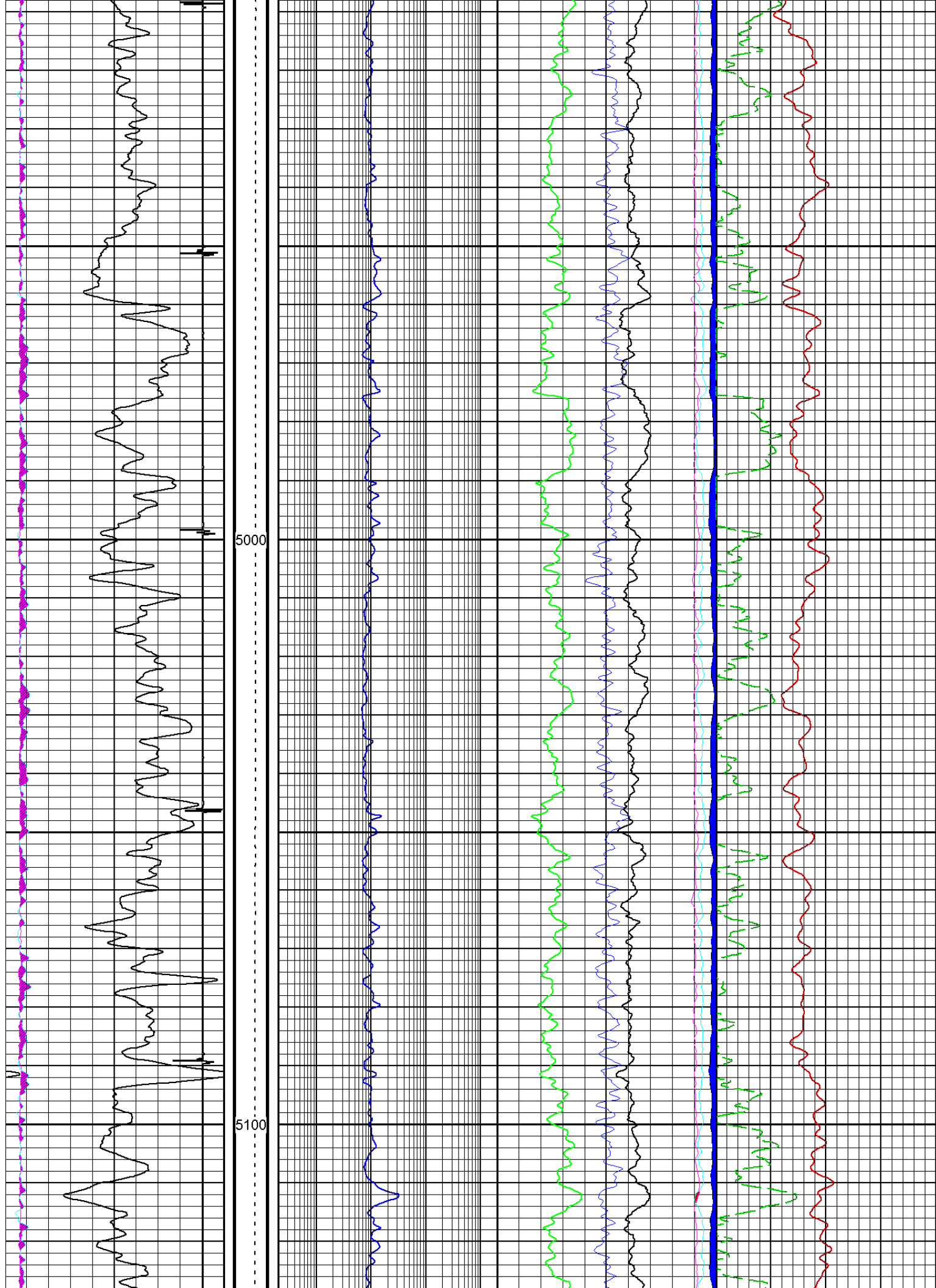




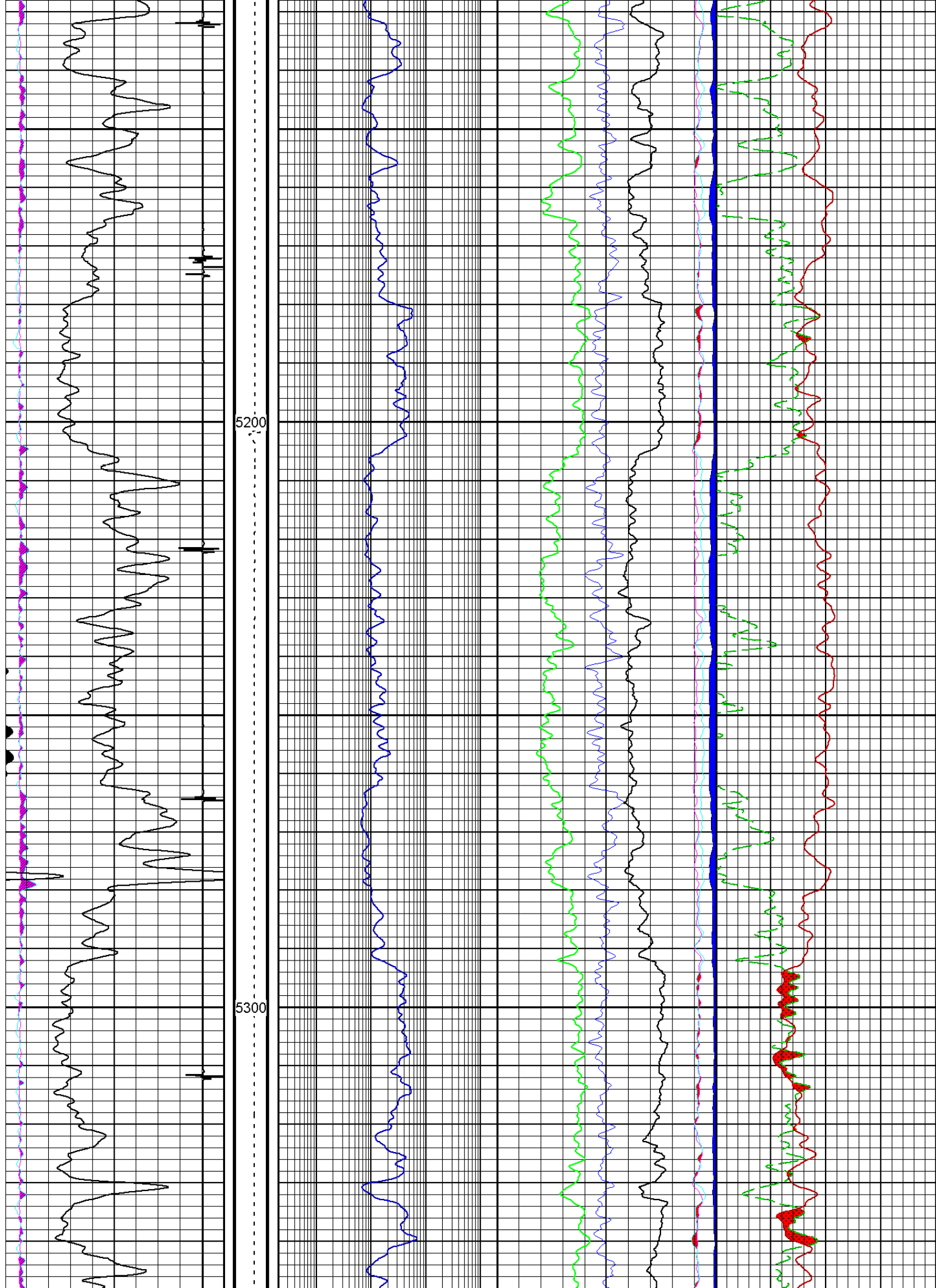


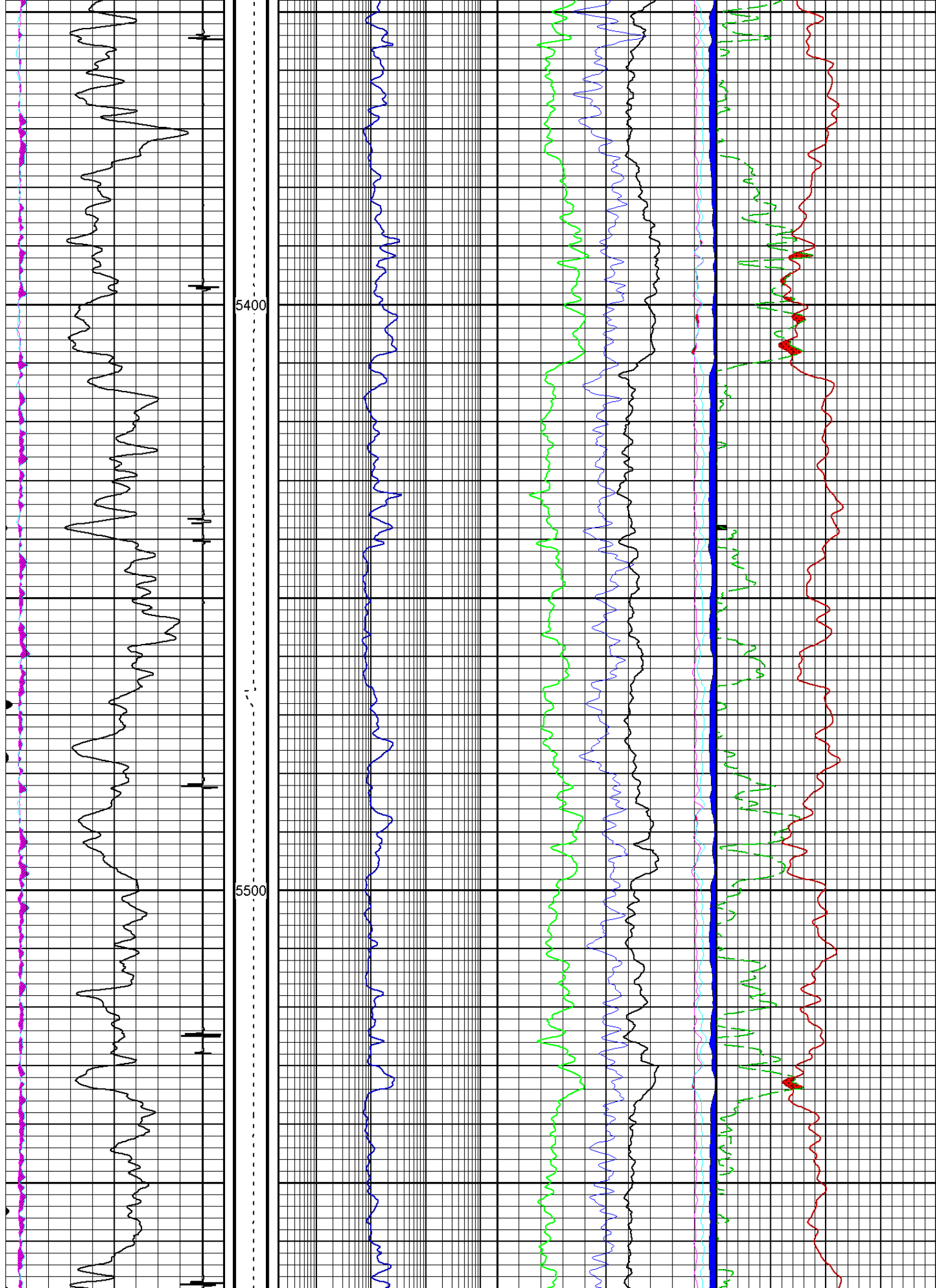


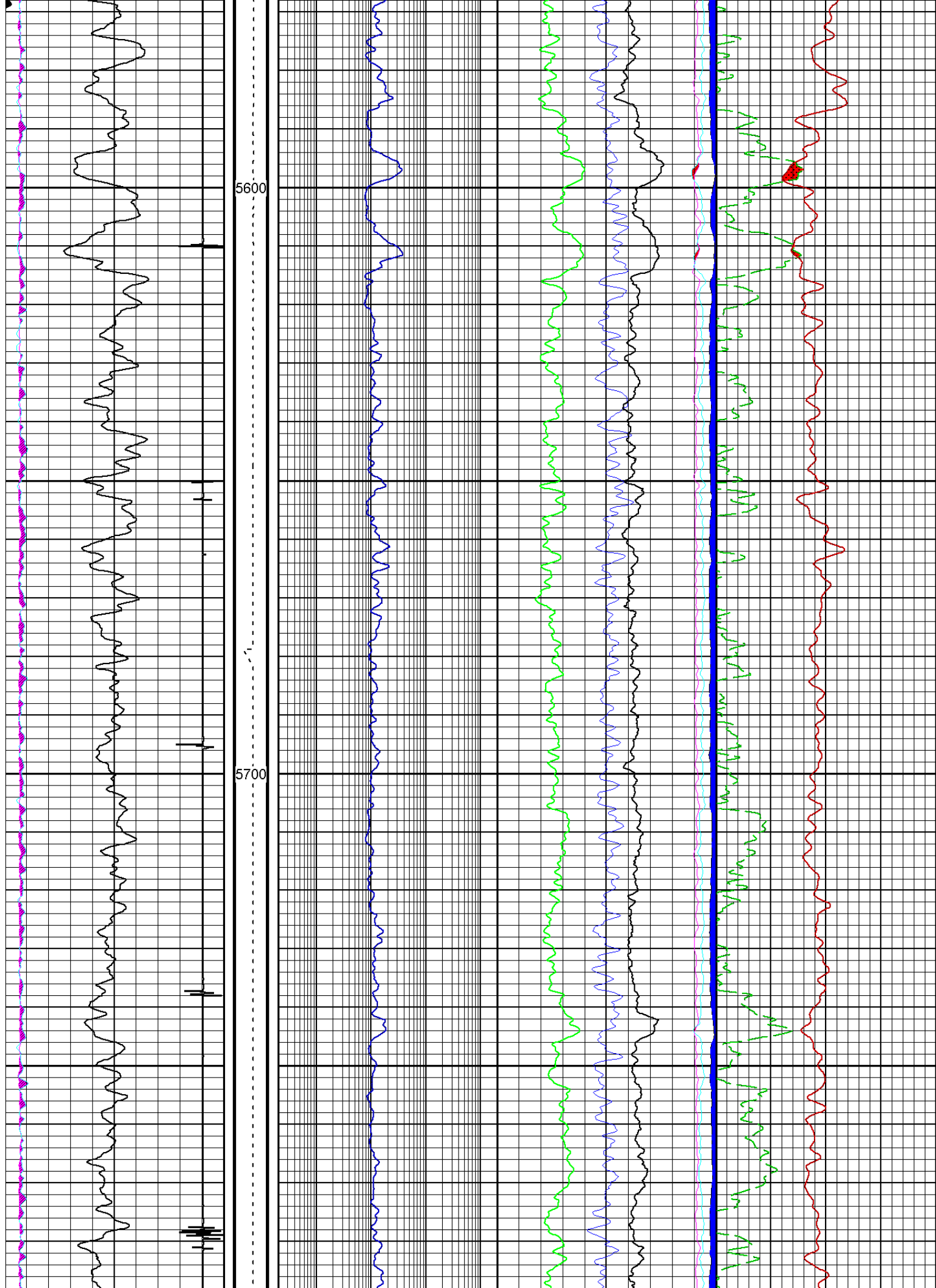


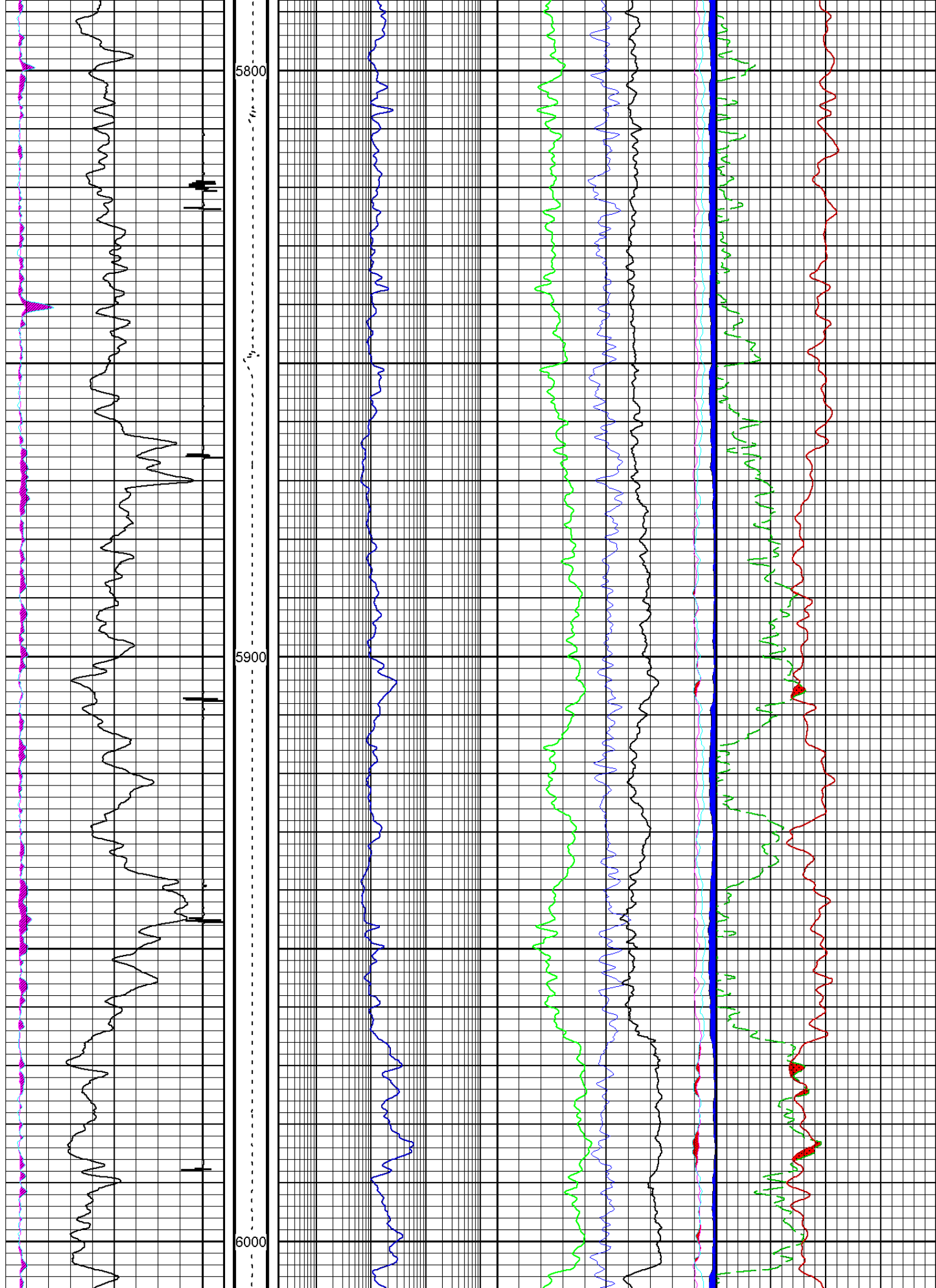


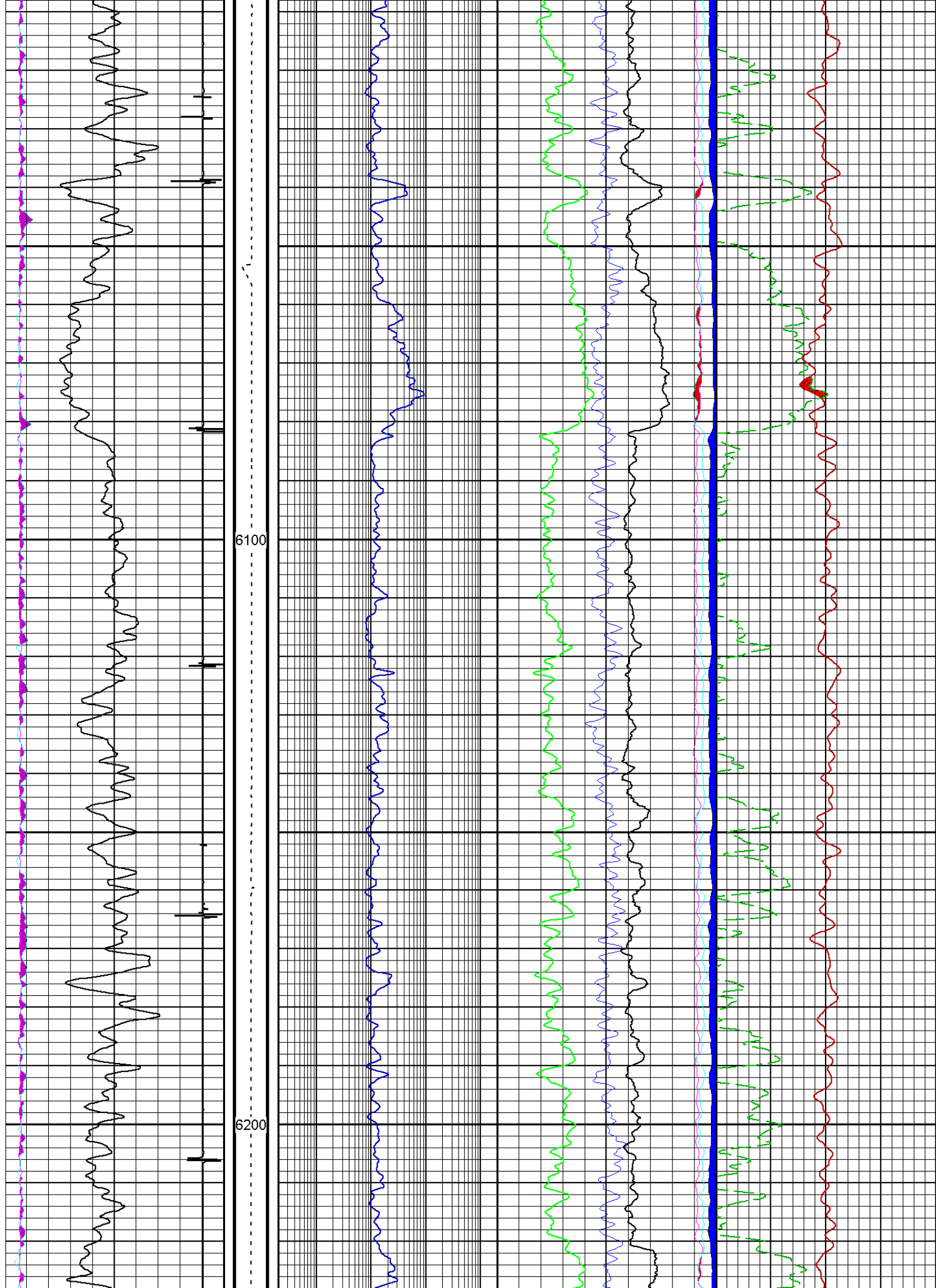


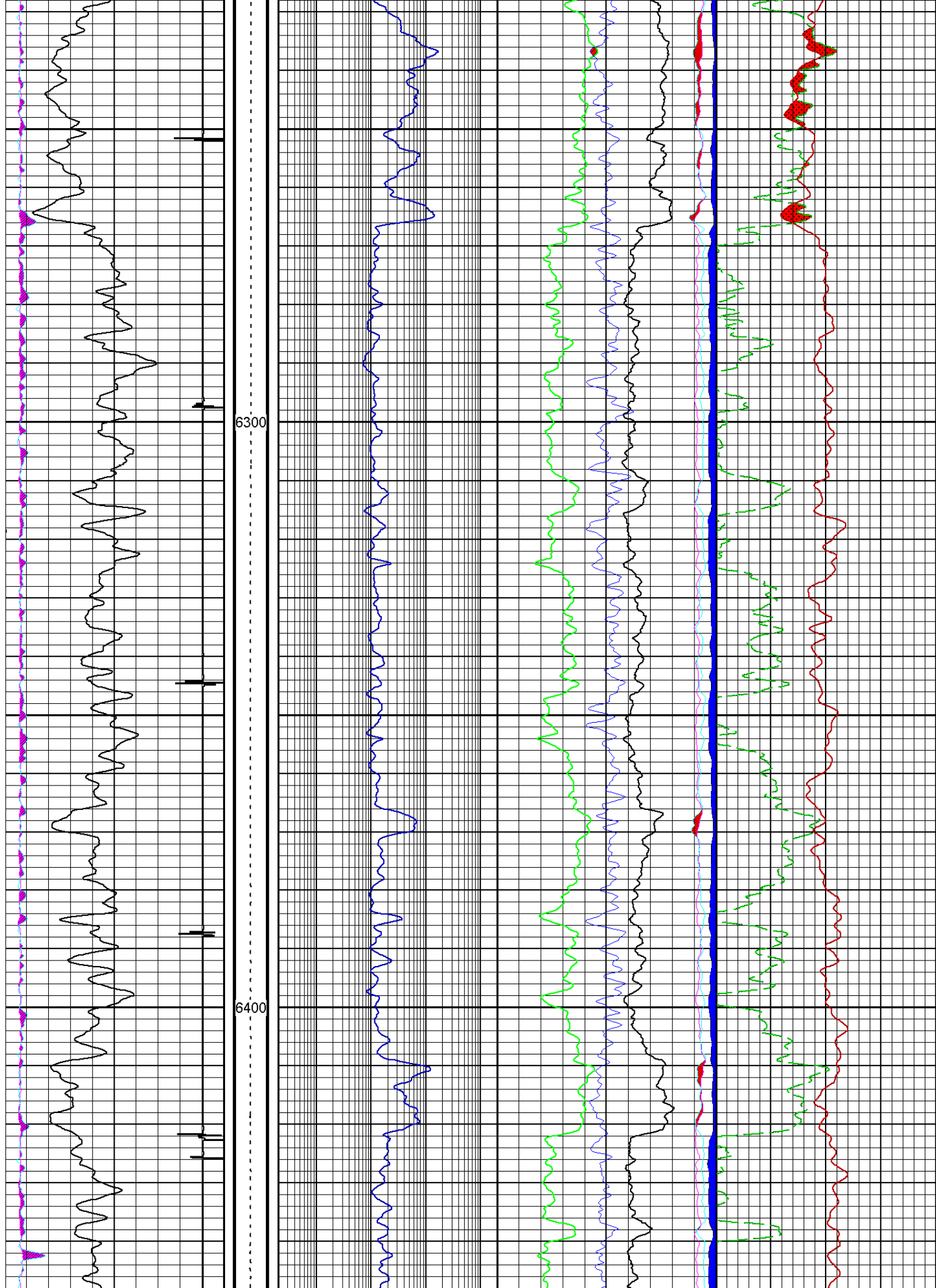


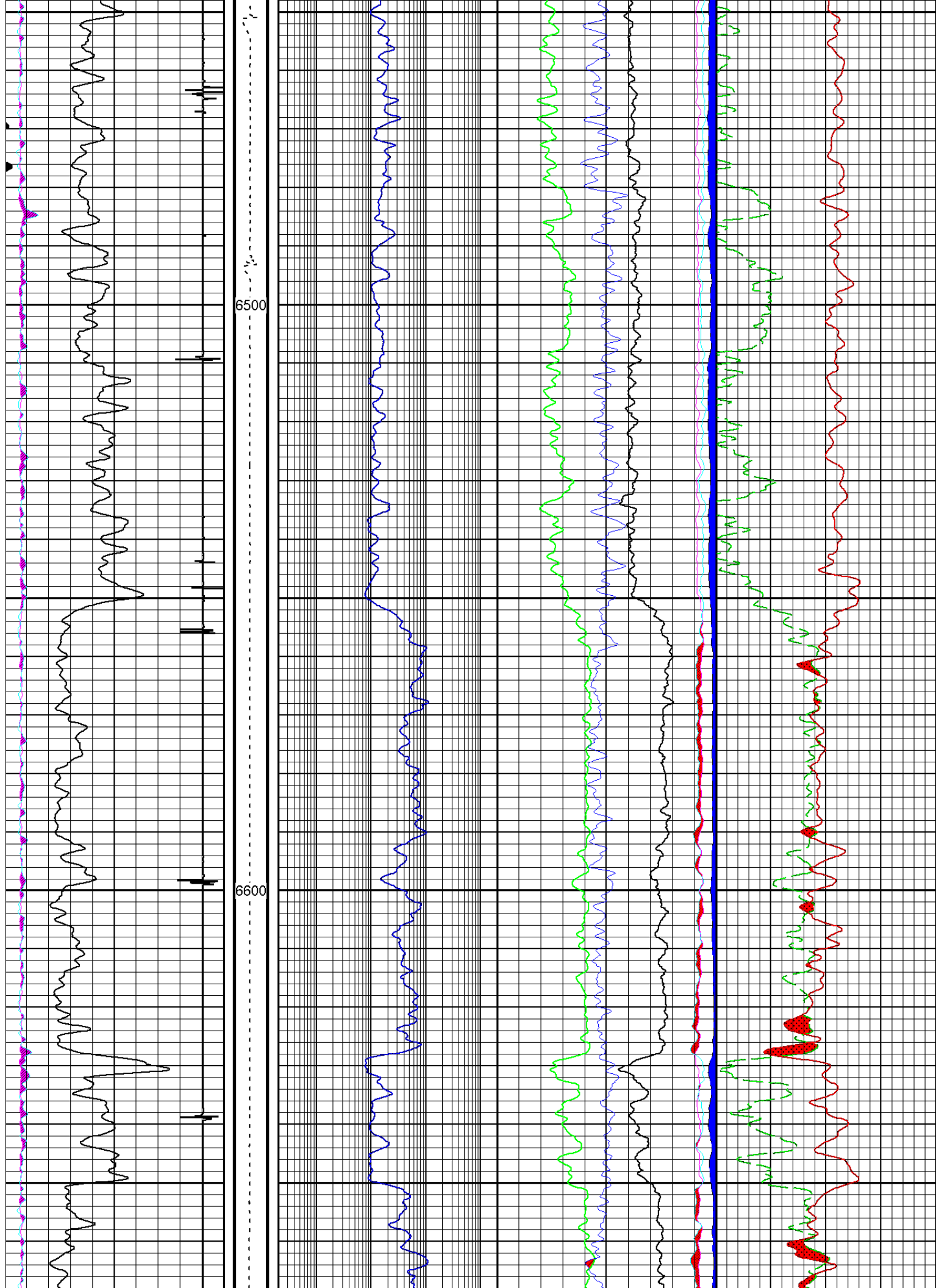




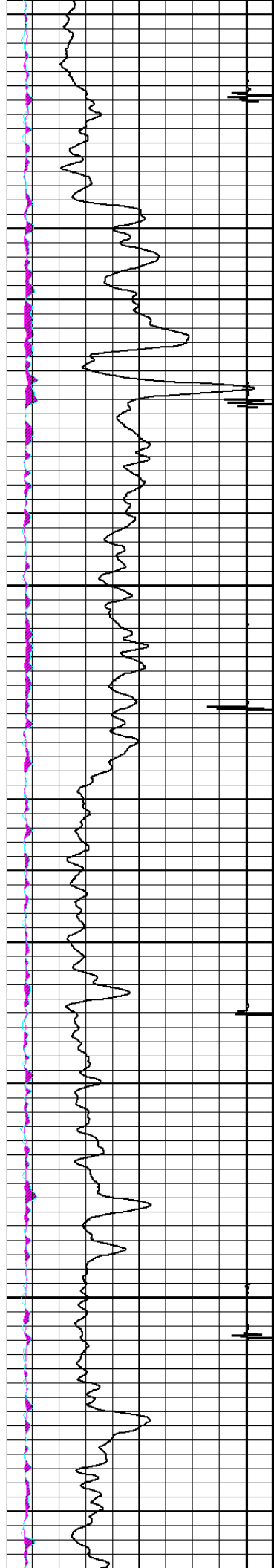






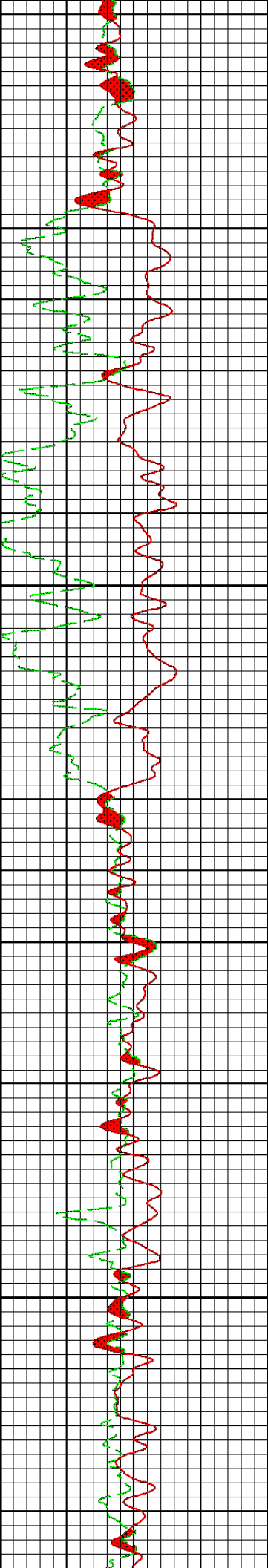
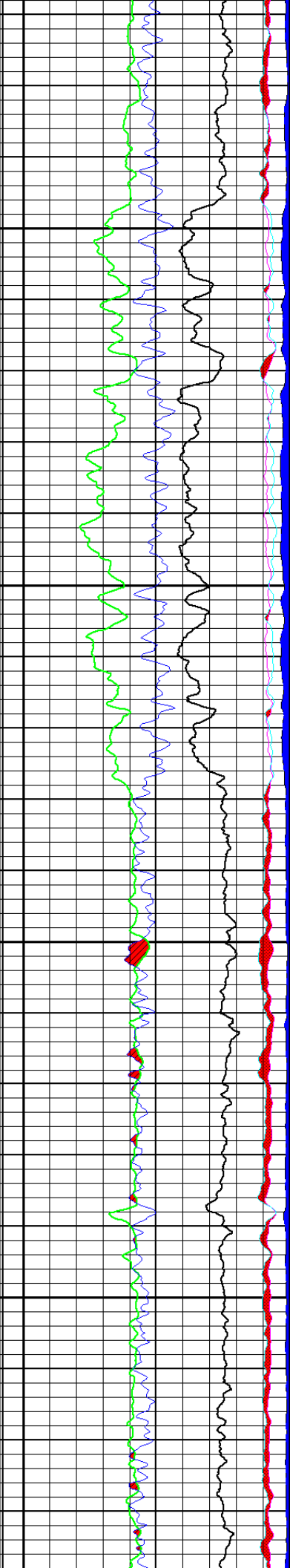
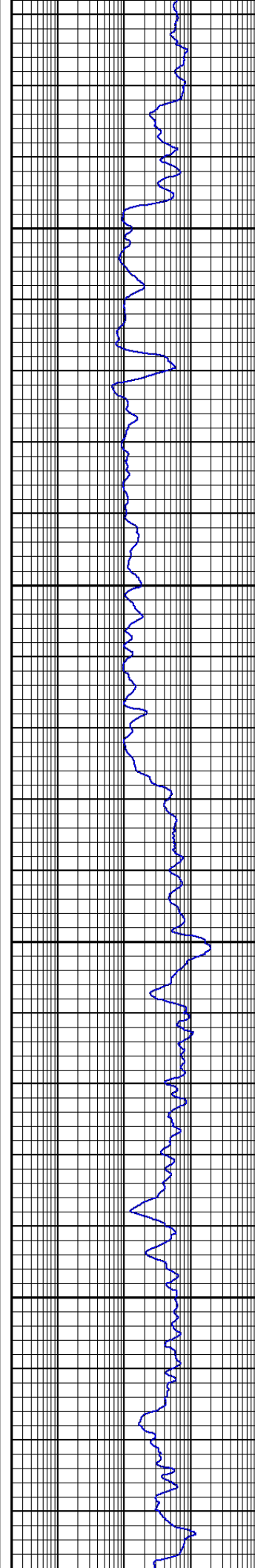




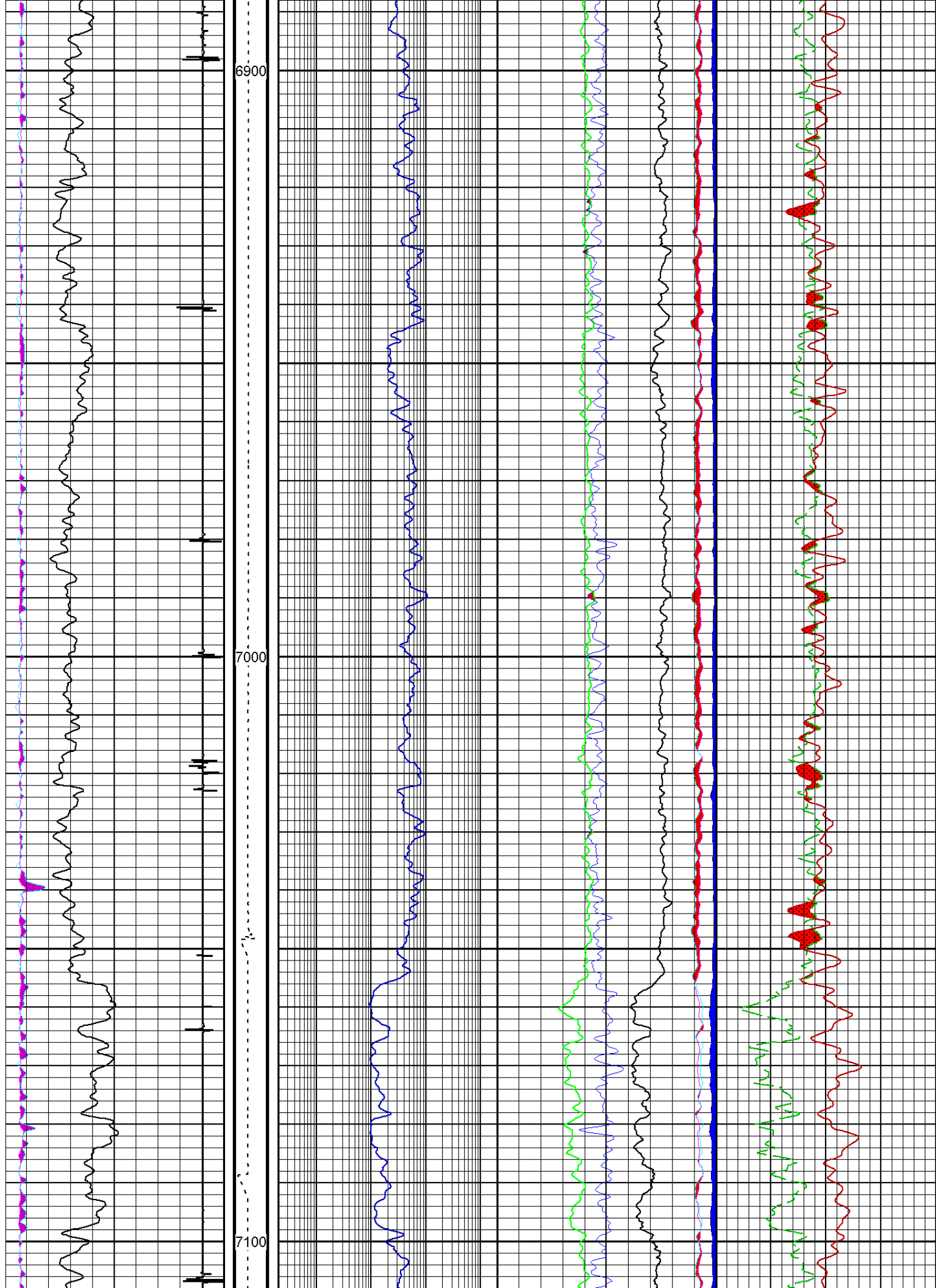


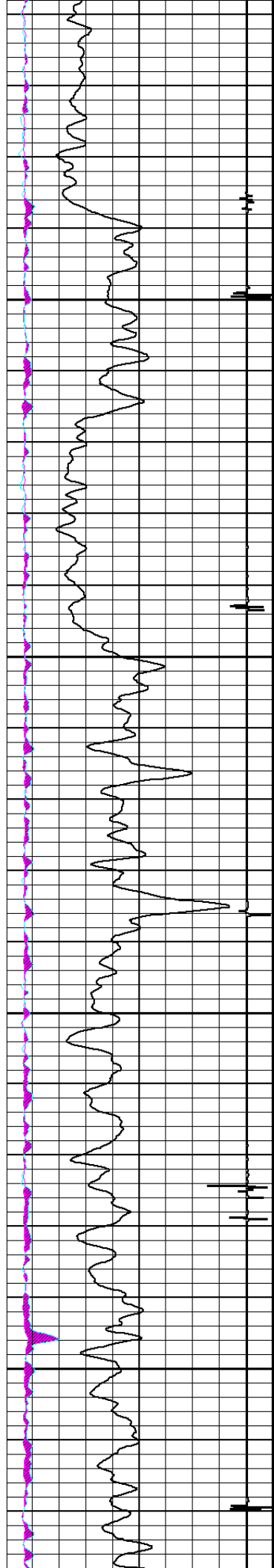
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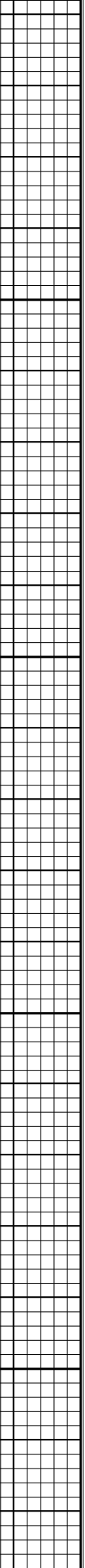
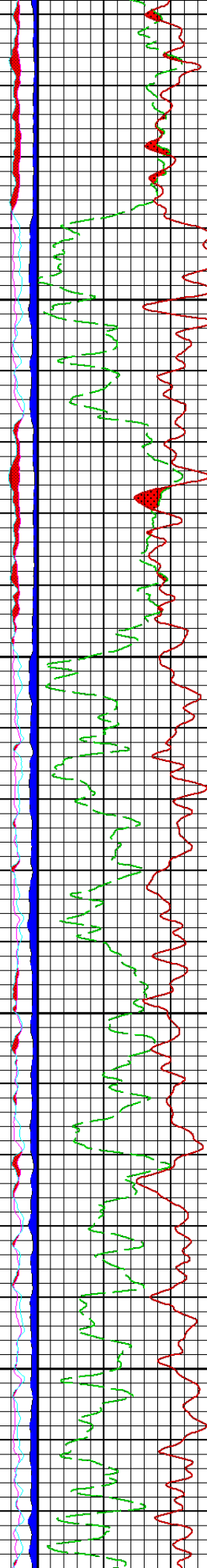
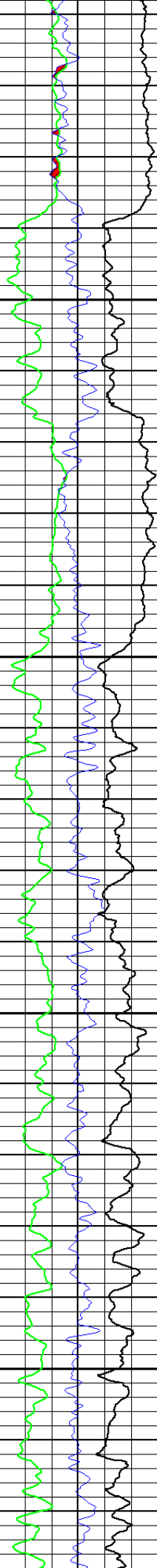
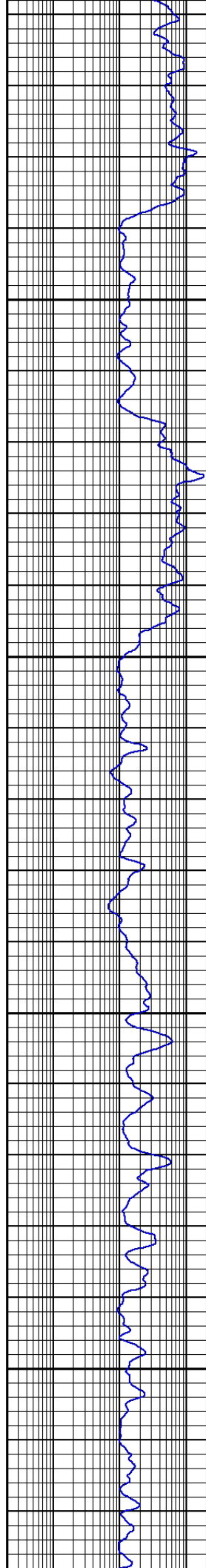


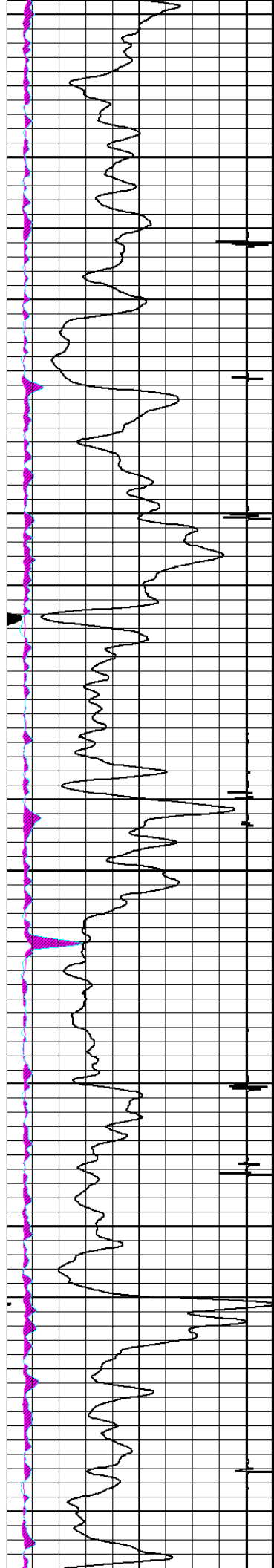




7200

7300





7400

7500

