



## PULSED NEUTRON DECAY

## "QUICK LOOK"

COMPANY URSA OPERATING  
WELL BAT 12C-24-07-96  
FIELD BATTLEMENT MESA  
CNTY GARFIELD STATE CO

COMPANY	URSA OPERATING COMPANY
WELL	BAT 12C-24-07-96
FIELD	BATTLEMENT MESA
COUNTY	GARFIELD
LOCATION:	

STATE	COLORADO
OTHER SERVICE	

OTHER SERVICES:

SEC.24	TWP.7	RGE96
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PERM. DATUM GROUND LEVEL	ELEV. 5160'
LOG MEASURED FROM K.B. 15.5 FT. ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM K.B.	

ELEV.: K.B. 5175.5  
D.F.  
G.L. 5160'

DATE	25-FEB-2014
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**RUN NO. ONE**

DEPTH DRILLER	6103'
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DEPTH	6089'
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BTM. LOG INTERVAL	6079'
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TOP LOG INTERVAL	2900'
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OPEN HOLE SIZE	8.75"
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TYPE FLUID	WATER
1	1
2	2
3	3
4	4
5	5
6	6
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97	97
98	98
99	99
100	100

DENS.	VISC.	8.3
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MAX. REC. TEMP.	192 D
EST. CEMENT FOR	11/4

EST. CEMENT 10P	N/A
TIME WELL READY	10 A

TIME WELL READY	R.O.A
TIME LOGGED ON PTM	OFF

TIME LOGGER ON BIL.	SEE L
FOILTP NO	14069

EQUIP. NO.	14068
LOCATION	CPD

LOCAL ION	GRD.
RECORDED BY	P. EN

RECORDED BY	F. ED
WITNESSED BY	I GB

**WILMINGTON DE L. GR**  
**BOEHMKE RECORD**

	BOLIVIAN RECORD		
BIIN NO	BIT	EBOM	

INVOICE NO.	DATE	AMOUNT
1001	10/01/2023	100.00
1002	10/05/2023	200.00
1003	10/10/2023	150.00
1004	10/15/2023	300.00
1005	10/20/2023	120.00
1006	10/25/2023	180.00
1007	10/30/2023	250.00
1008	11/05/2023	100.00
1009	11/10/2023	220.00
1010	11/15/2023	160.00
1011	11/20/2023	280.00
1012	11/25/2023	140.00
1013	11/30/2023	190.00
1014	12/05/2023	210.00
1015	12/10/2023	170.00
1016	12/15/2023	230.00
1017	12/20/2023	110.00
1018	12/25/2023	260.00
1019	12/30/2023	130.00
1020	01/05/2024	240.00
1021	01/10/2024	160.00
1022	01/15/2024	270.00
1023	01/20/2024	120.00
1024	01/25/2024	290.00
1025	01/30/2024	150.00
1026	02/05/2024	200.00
1027	02/10/2024	180.00
1028	02/15/2024	220.00
1029	02/20/2024	140.00
1030	02/25/2024	250.00
1031	02/28/2024	110.00
1032	03/05/2024	280.00
1033	03/10/2024	160.00
1034	03/15/2024	230.00
1035	03/20/2024	130.00
1036	03/25/2024	260.00
1037	03/30/2024	150.00
1038	04/05/2024	210.00
1039	04/10/2024	170.00
1040	04/15/2024	240.00
1041	04/20/2024	120.00
1042	04/25/2024	290.00
1043	04/30/2024	140.00
1044	05/05/2024	270.00
1045	05/10/2024	160.00
1046	05/15/2024	230.00
1047	05/20/2024	130.00
1048	05/25/2024	260.00
1049	05/30/2024	150.00
1050	06/05/2024	210.00
1051	06/10/2024	170.00
1052	06/15/2024	240.00
1053	06/20/2024	120.00
1054	06/25/2024	290.00
1055	06/30/2024	140.00
1056	07/05/2024	270.00
1057	07/10/2024	160.00
1058	07/15/2024	230.00
1059	07/20/2024	130.00
1060	07/25/2024	260.00
1061	07/30/2024	150.00
1062	08/05/2024	210.00
1063	08/10/2024	170.00
1064	08/15/2024	240.00
1065	08/20/2024	120.00
1066	08/25/2024	290.00
1067	08/30/2024	140.00
1068	09/05/2024	270.00
1069	09/10/2024	160.00
1070	09/15/2024	230.00
1071	09/20/2024	130.00
1072	09/25/2024	260.00
1073	09/30/2024	150.00
1074	10/05/2024	210.00
1075	10/10/2024	170.00
1076	10/15/2024	240.00
1077	10/20/2024	120.00
1078	10/25/2024	290.00
1079	10/30/2024	140.00
1080	11/05/2024	270.00
1081	11/10/2024	160.00
1082	11/15/2024	230.00
1083	11/20/2024	130.00
1084	11/25/2024	260.00
1085	11/30/2024	150.00
1086	12/05/2024	210.00
1087	12/10/2024	170.00
1088	12/15/2024	240.00
1089	12/20/2024	120.00
1090	12/25/2024	290.00

[illegible]

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[illegible][illegible]

SURFACE STRING		
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PROT. STRING		
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PROD. STRING	4.5"	1:
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LINER		
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All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

REMARKS	Rig: CRANE #15062	Service Order # 80195239
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LOG WAS CORRELATED TO WEATHERFORD SECTOR BON LOG DATED 24FEB2014  
ALL LOGGED INTERVALS PER CUSTOMER REQUEST

**THANK YOU FOR USING WEATHERFORD WIRLINE.**

### EQUIPMENT DATA

[illegible]

DEPTH SCALE: 5":100'

PROCESSED VERSION: 2012.07.18.162"

## MAIN PASS

80195239 PNDMAINF

FINISH DEPTH: 2860.4 Feet DIRECTION: UP DATE: 02/27/2014 TIME: 09:04 MODE: TRACE PLAYBACK

Far Background

0.0 3000.0

Near Background

0.0 30000.0

CCL

-10000 Millivolts 1000

GAMMA RAY

0 API 150

OUTPUT QUALITY

0.0 200000.0

Tension

0 2000

Ratio Bore n to f

-1.0 14.0

RATIO

6.0 1.0

FAR 1

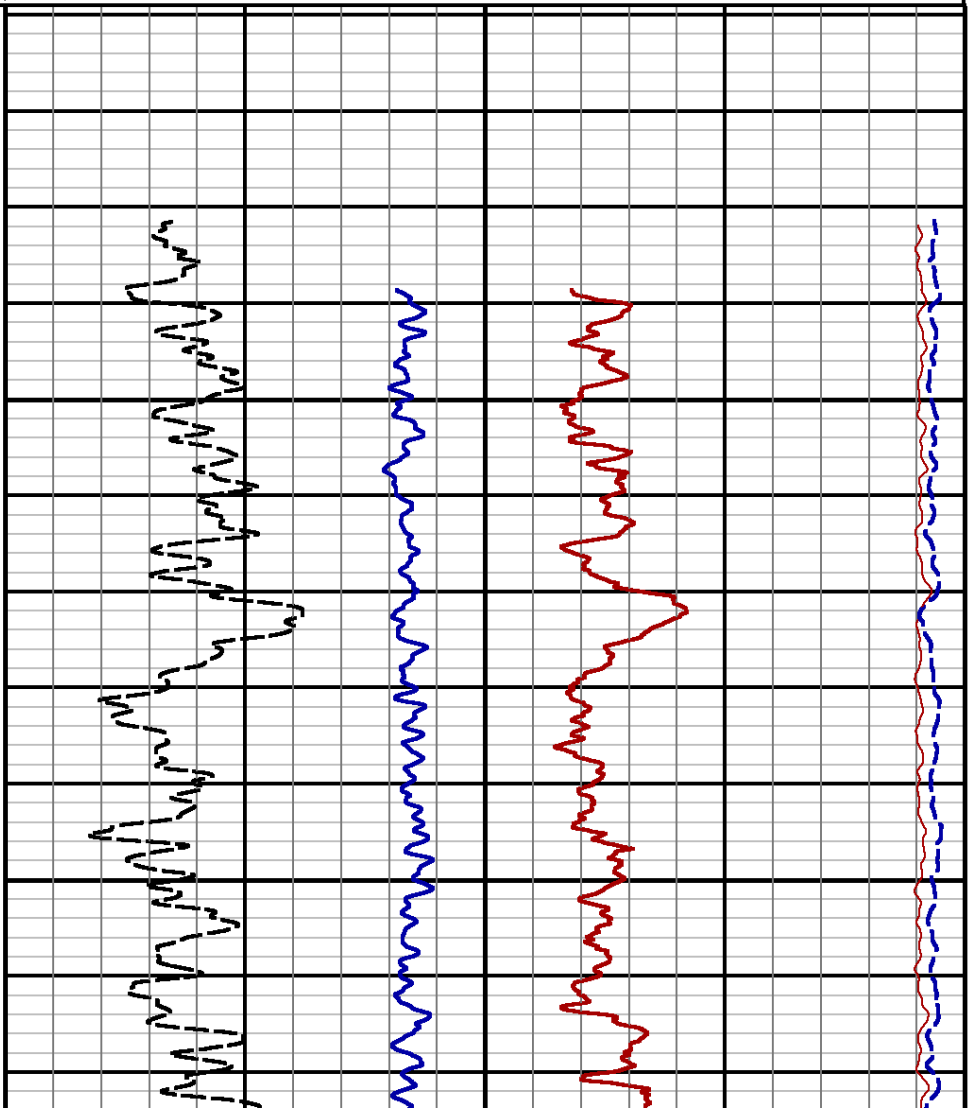
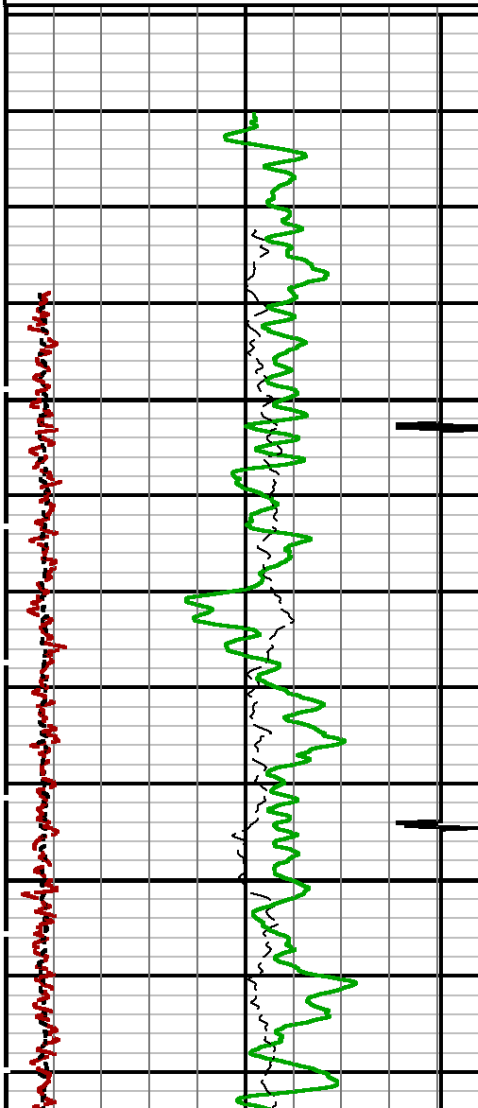
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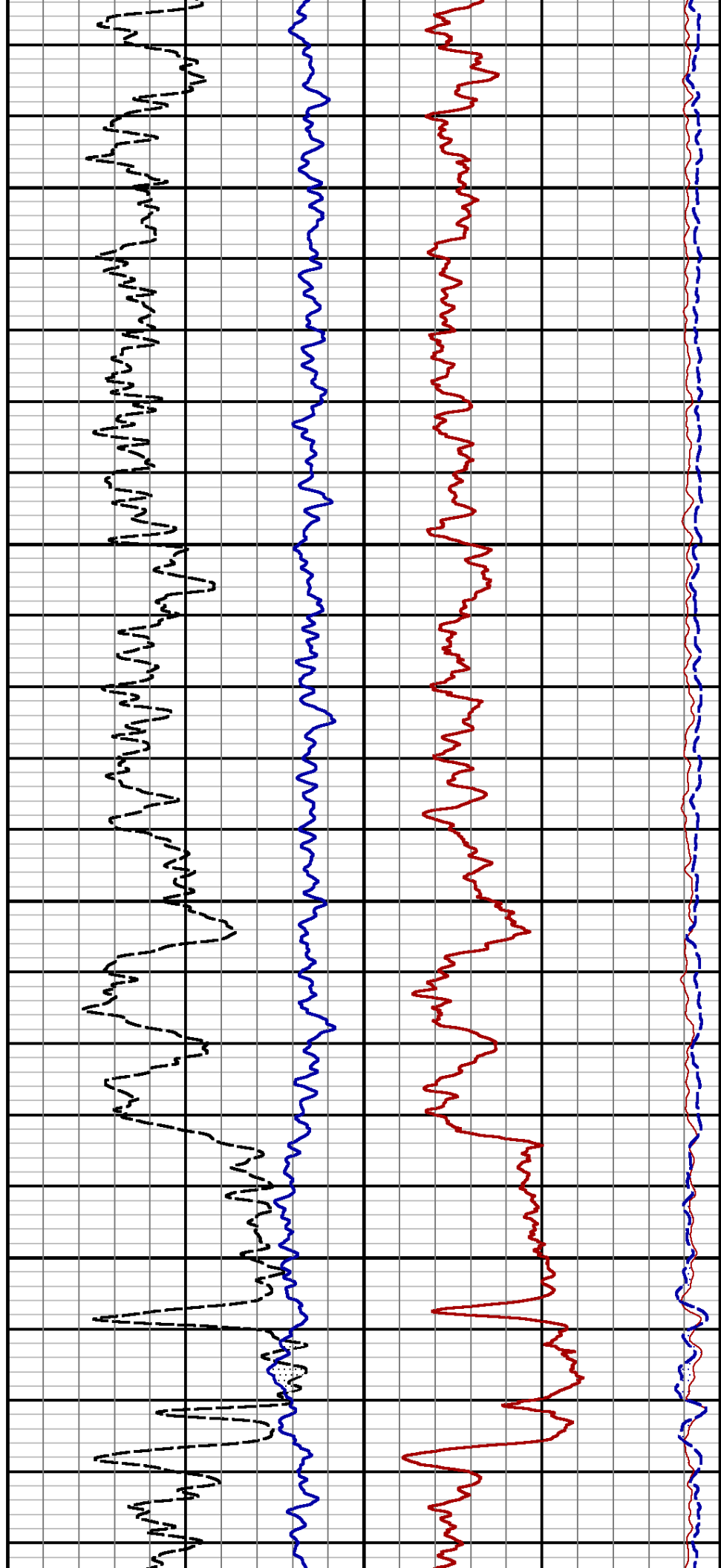
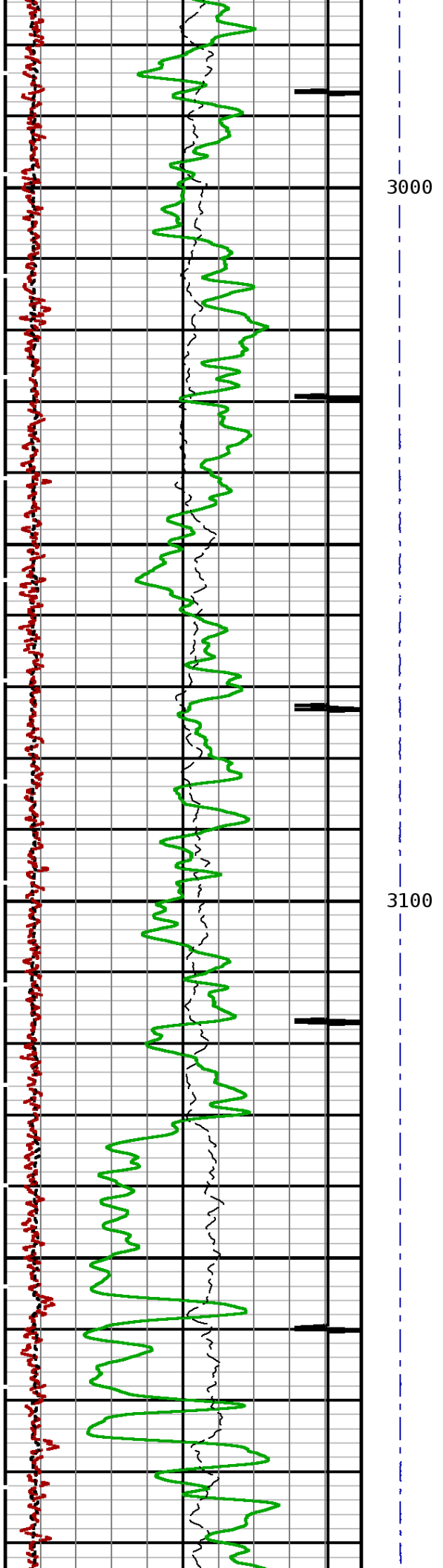
NEAR 1

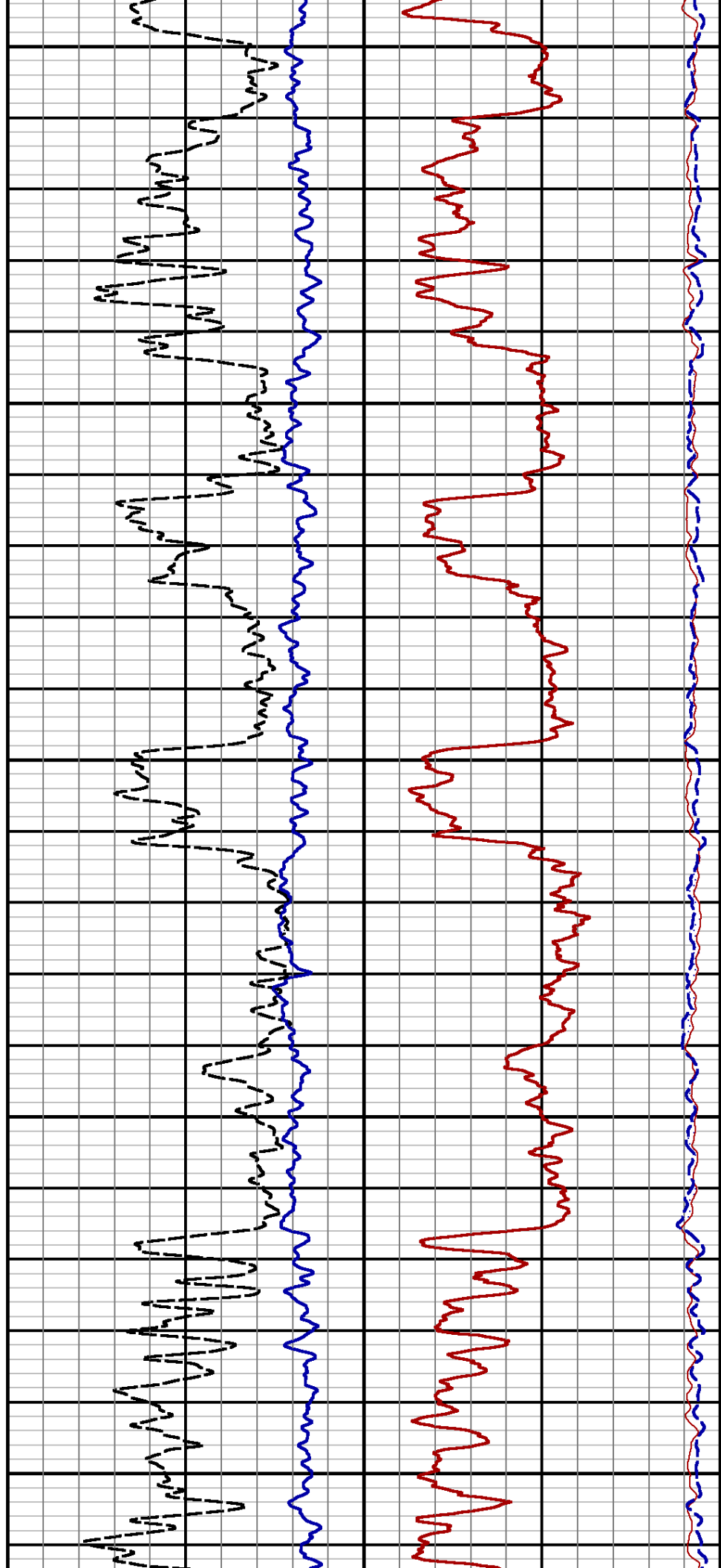
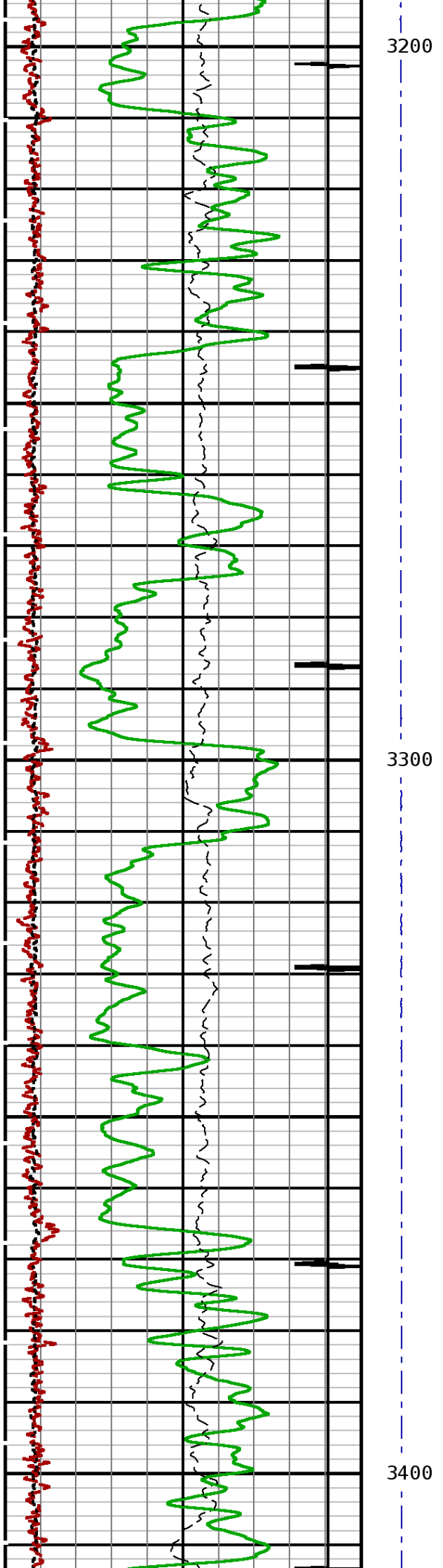
240.0 Counts/Second 0.0

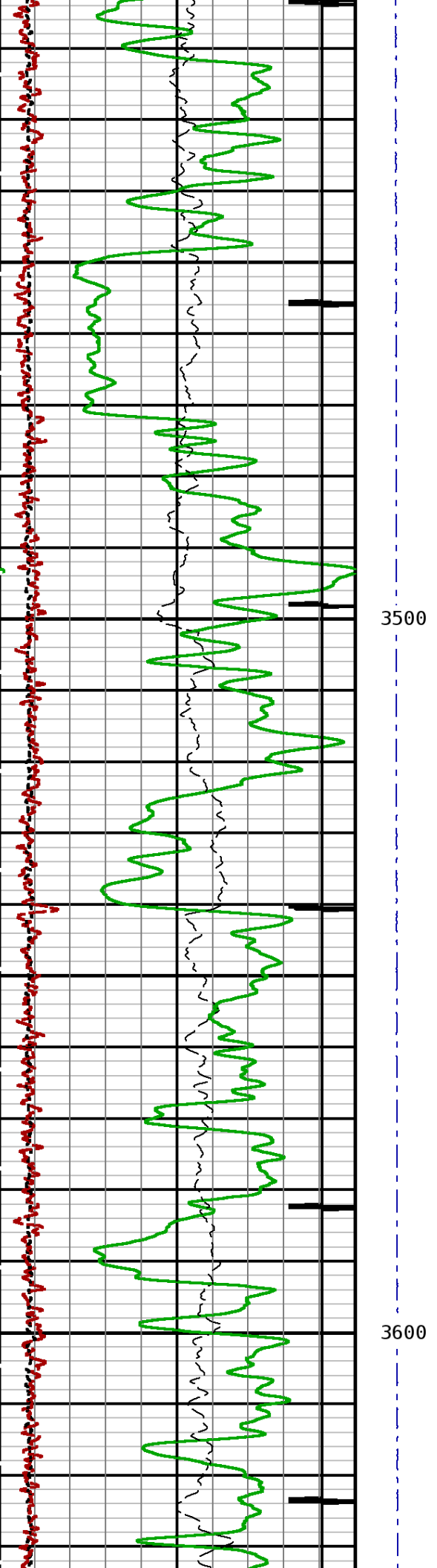
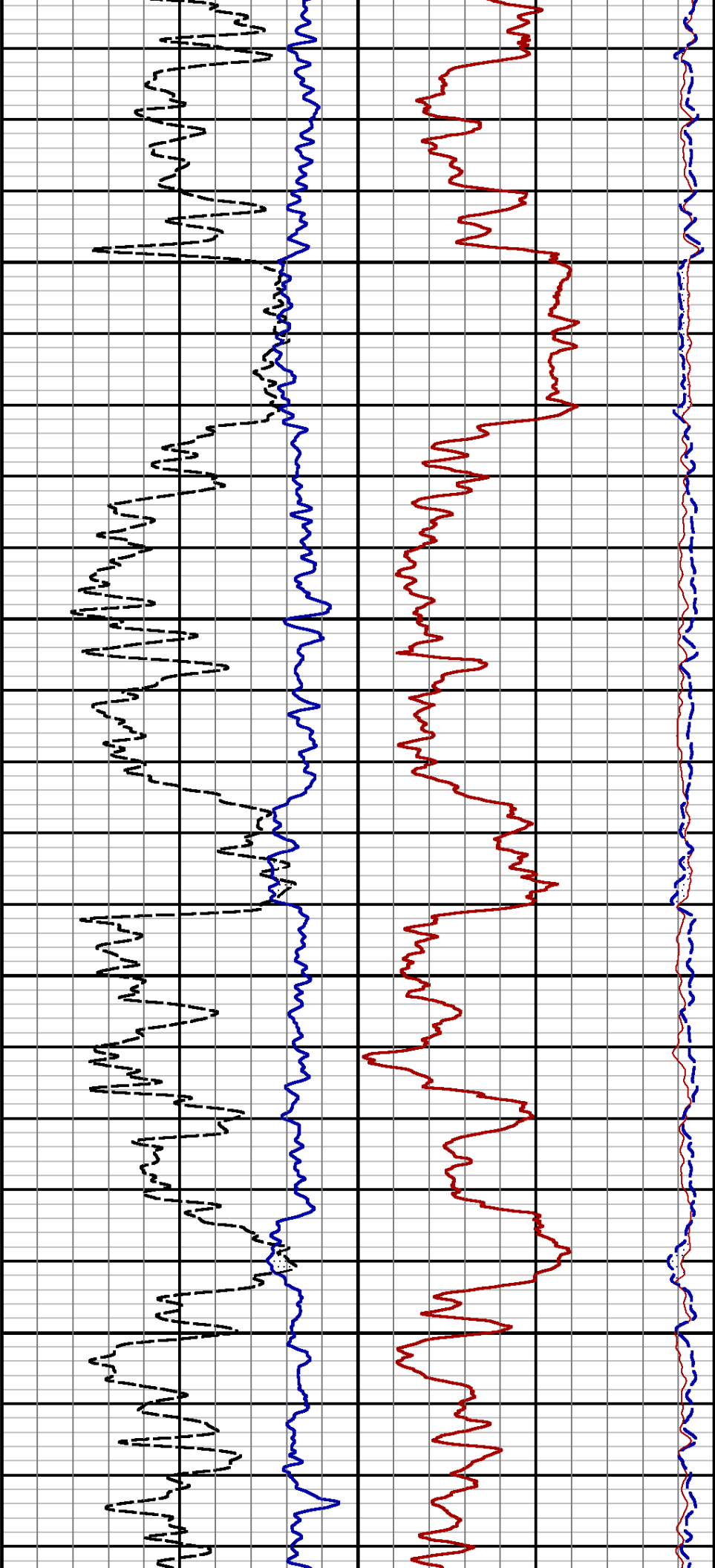
Formation Sigma

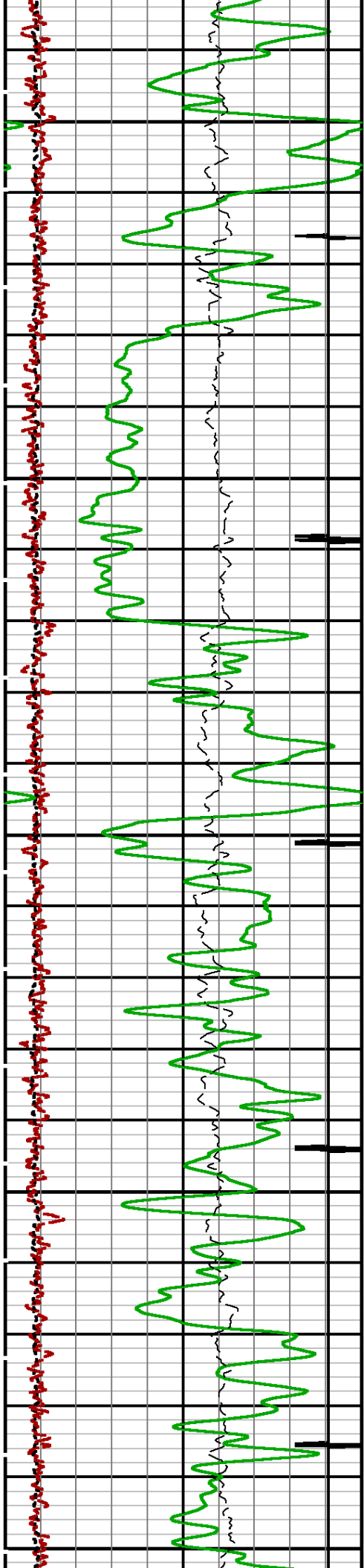
60.0 0.0





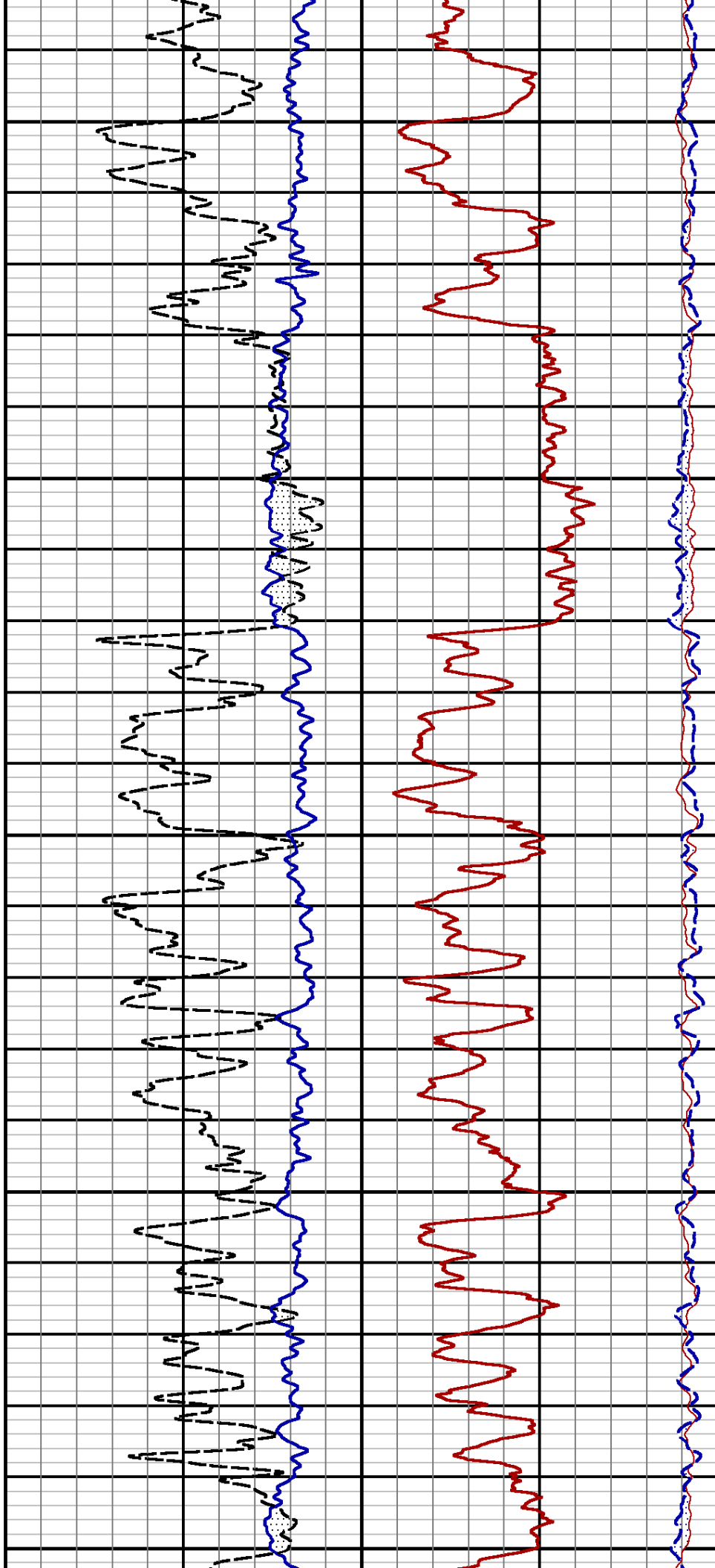


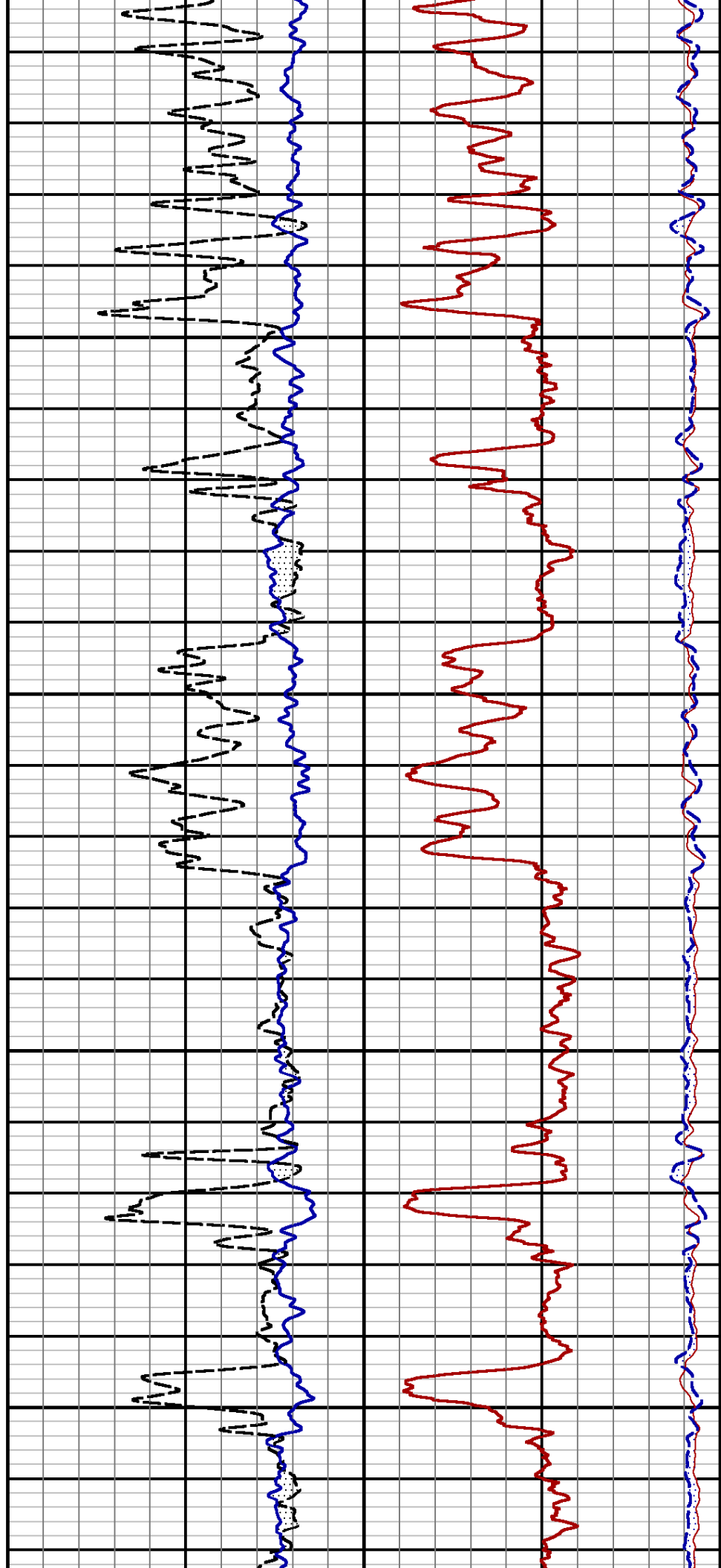
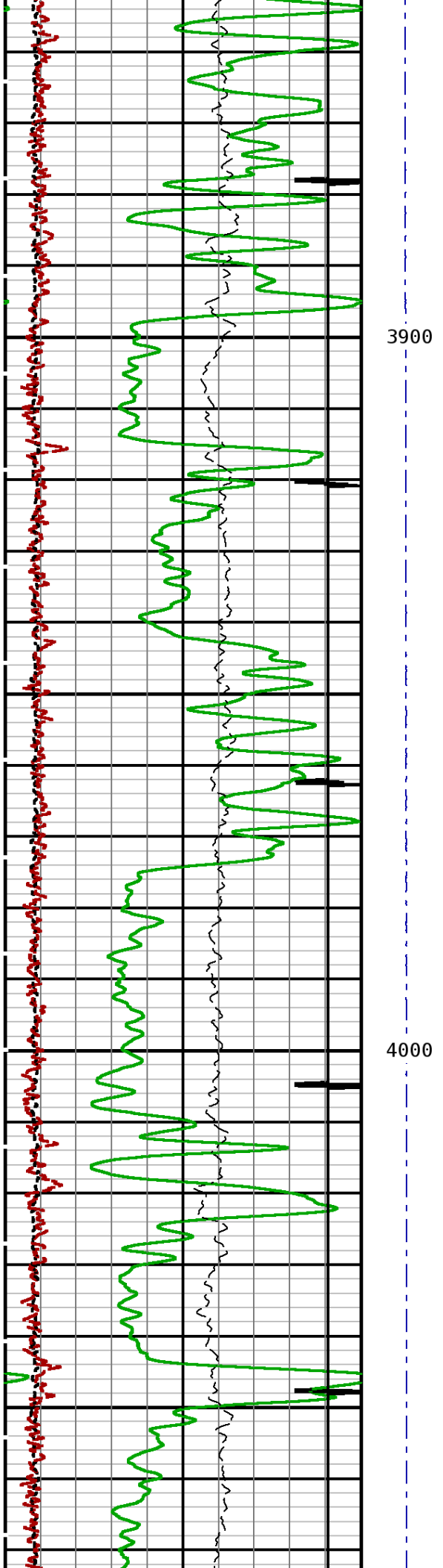


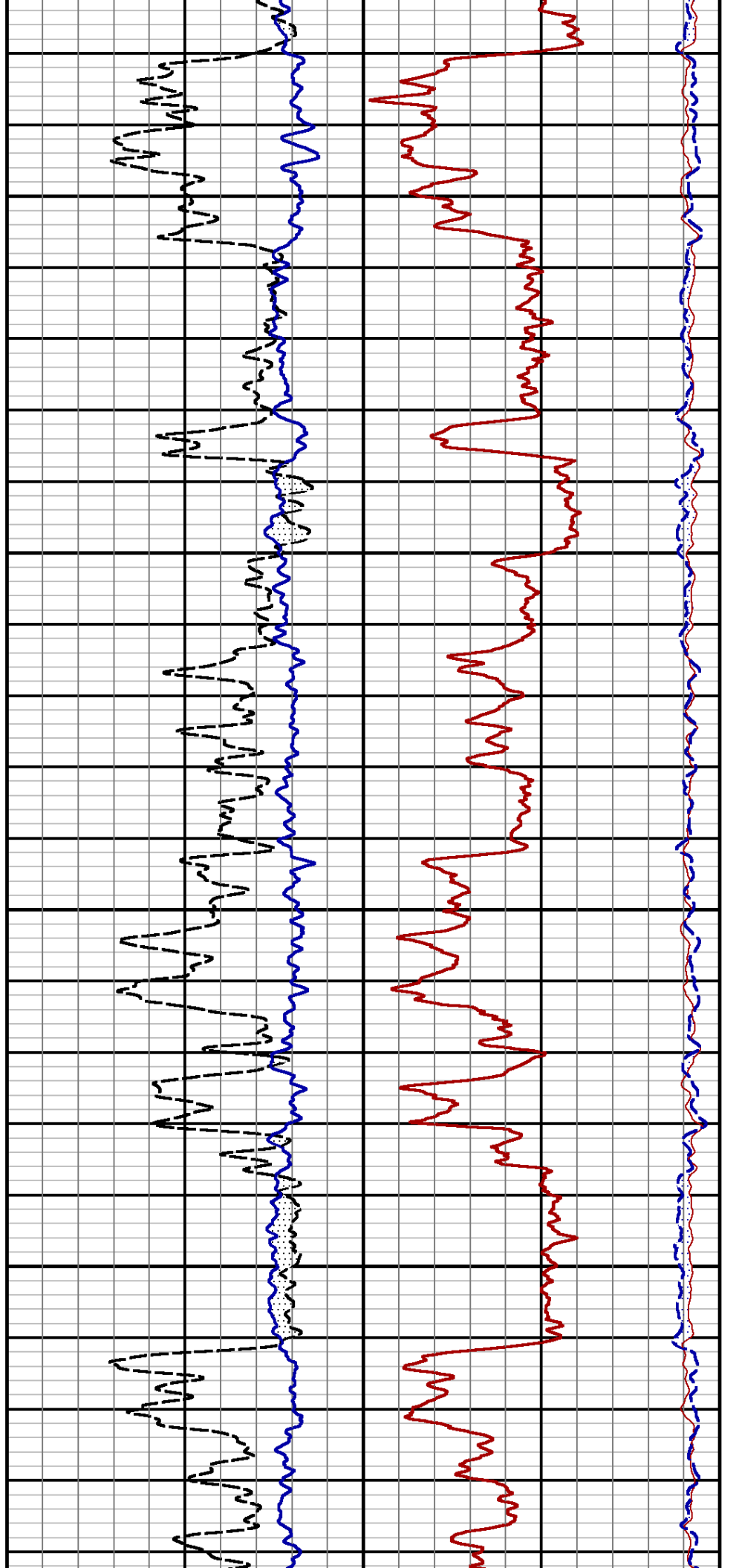
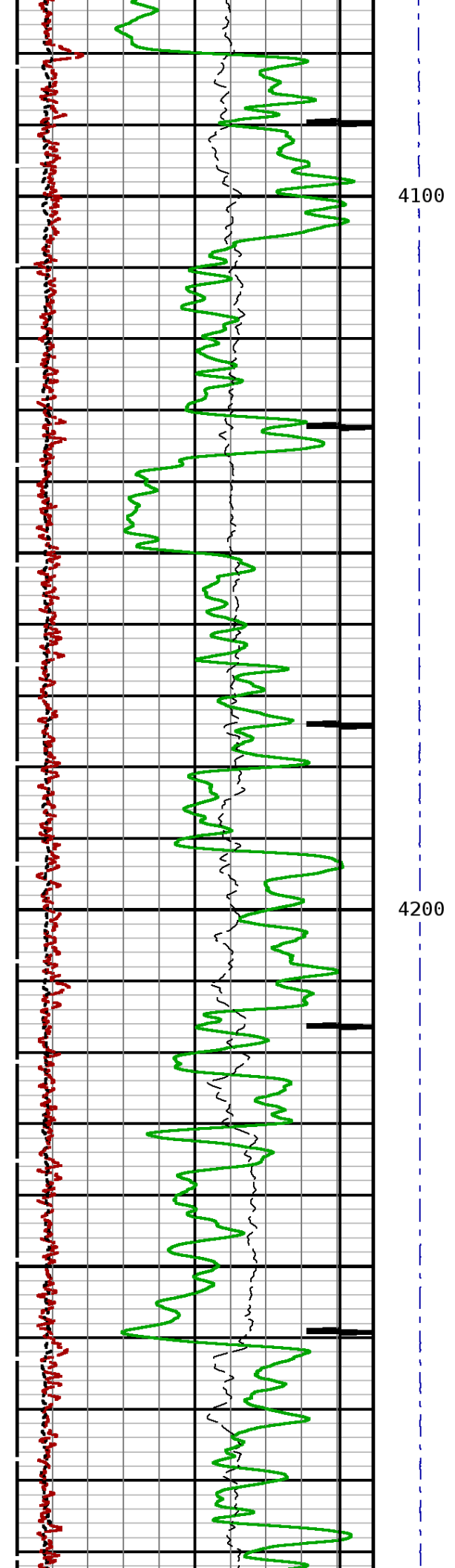


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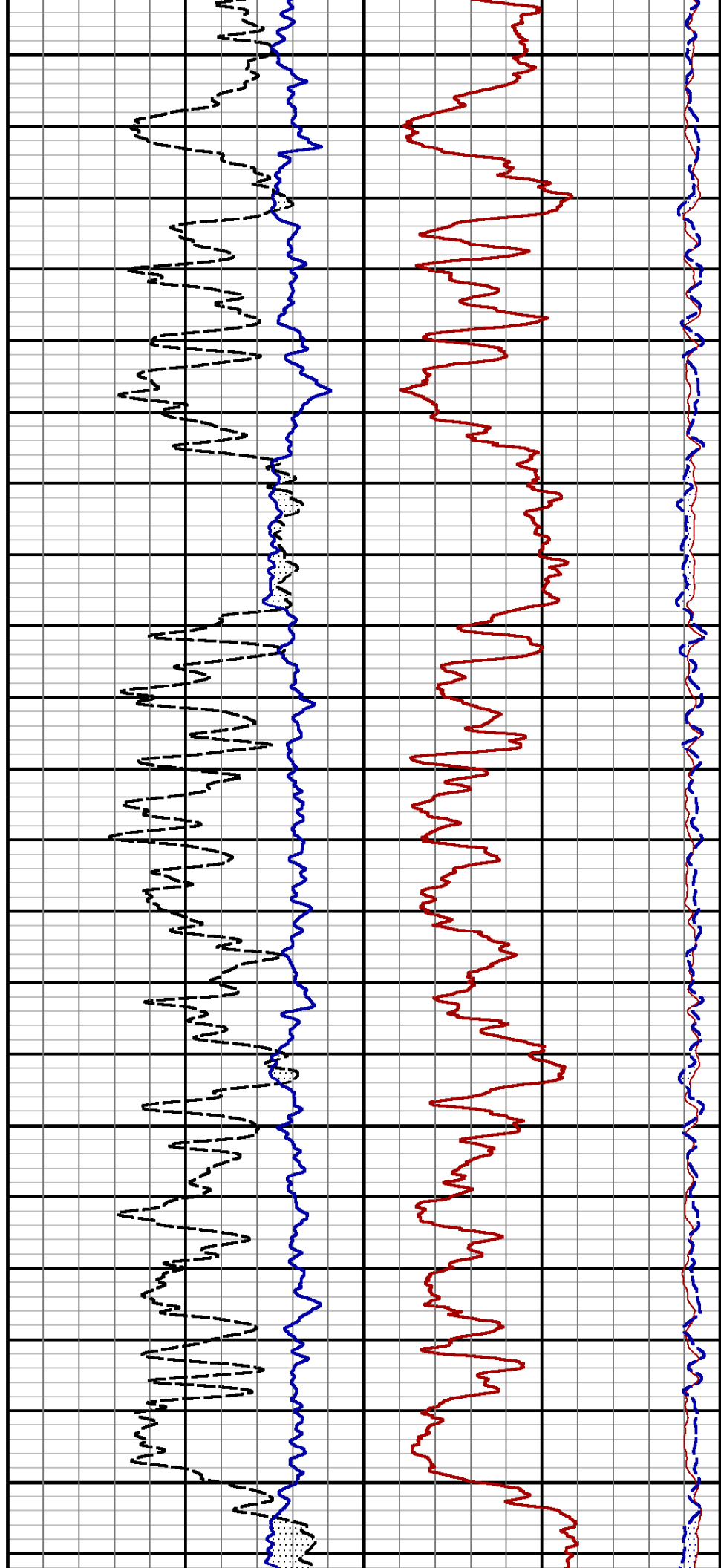
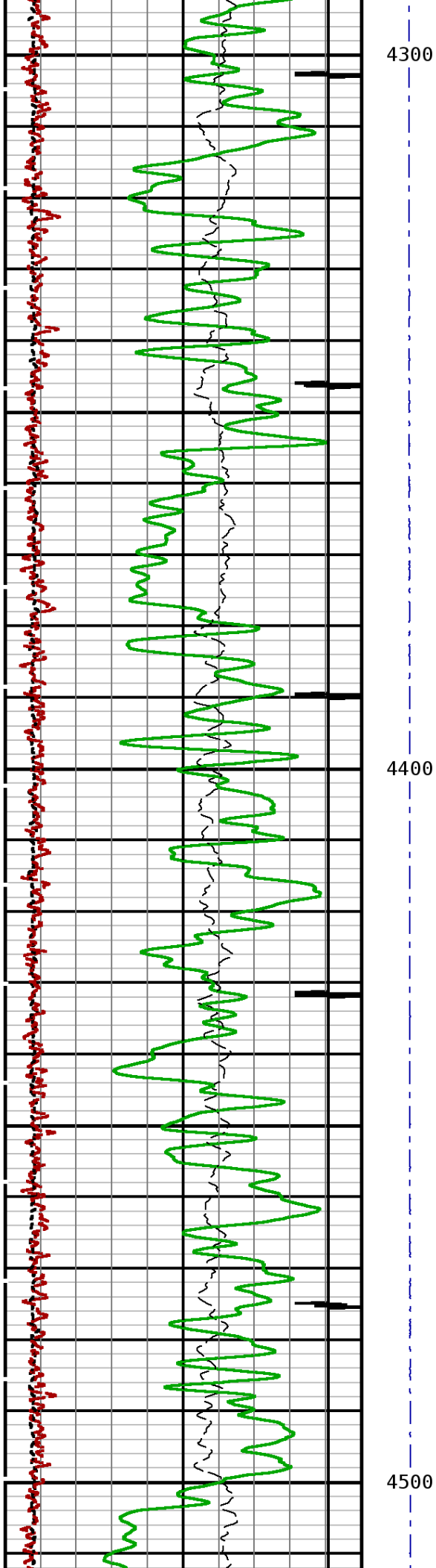
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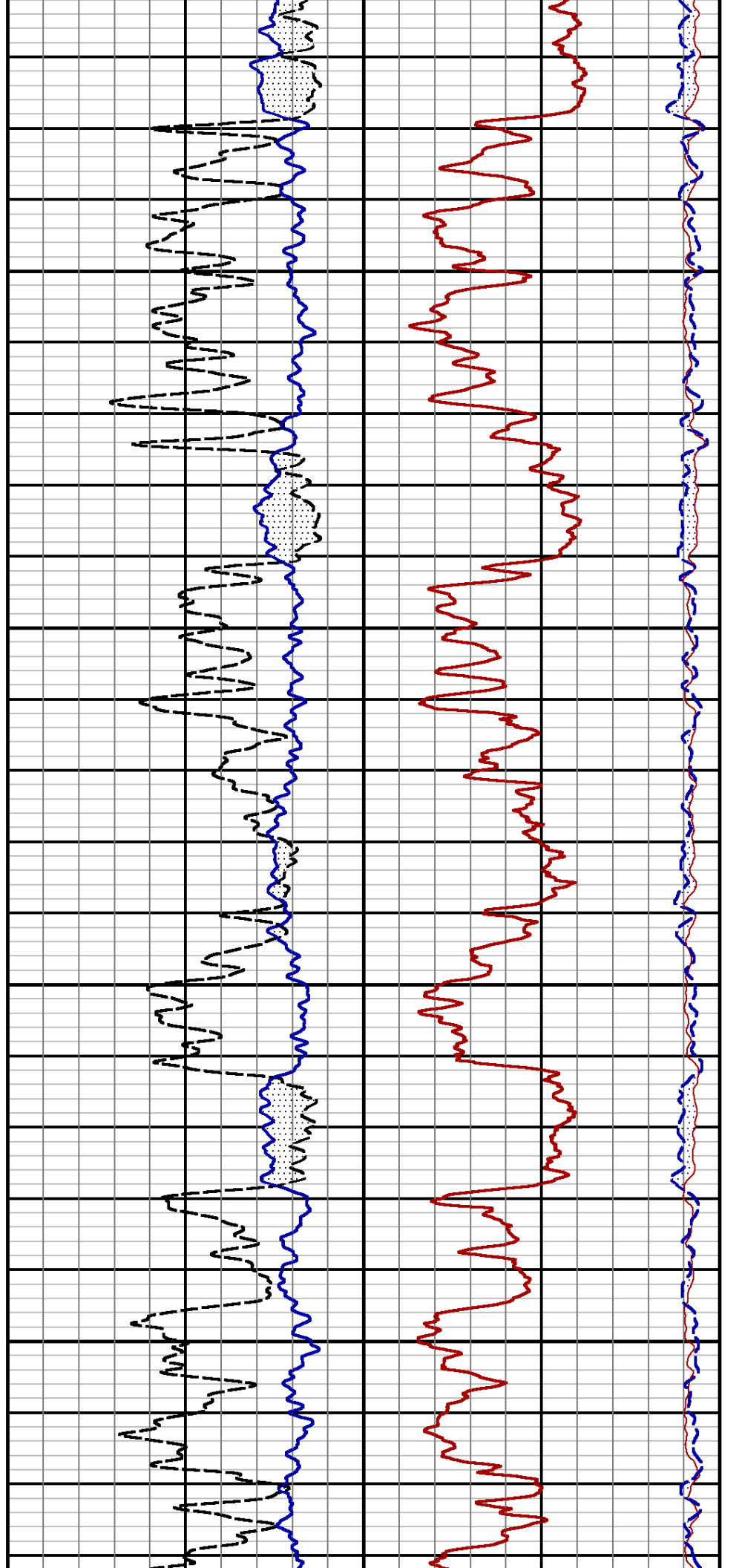
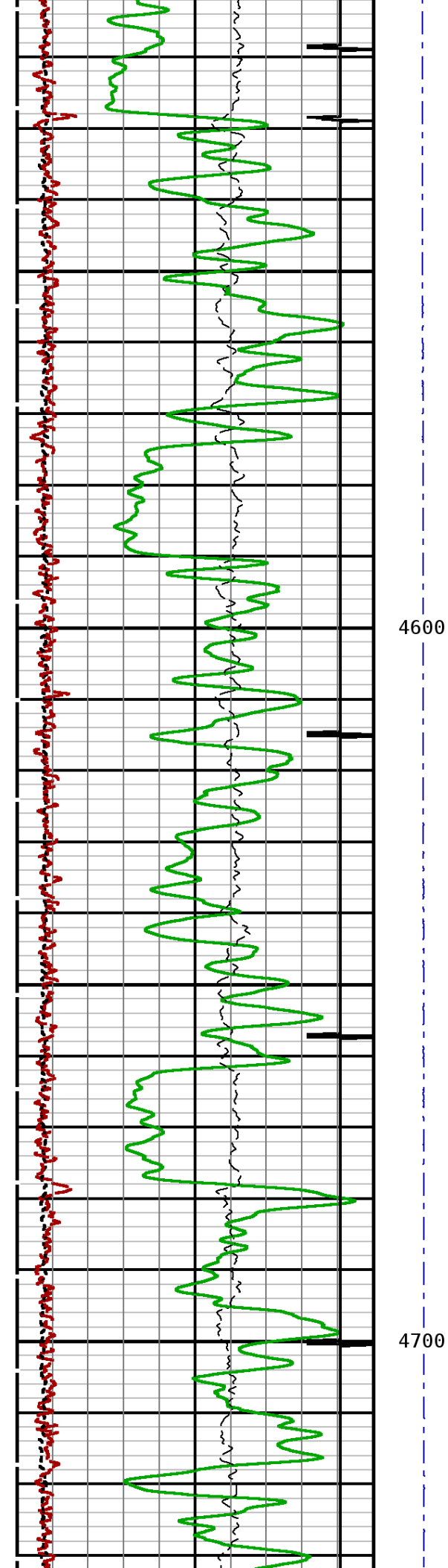


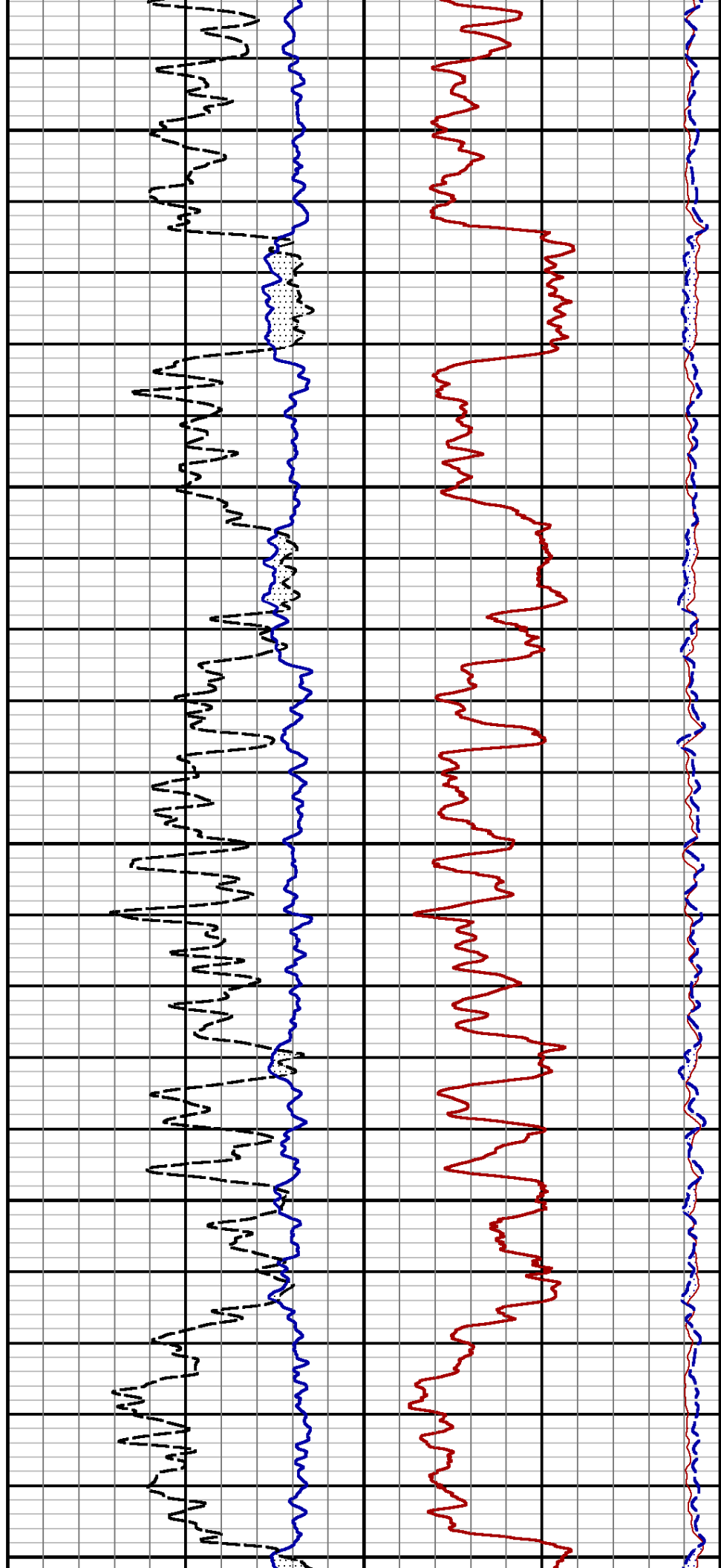
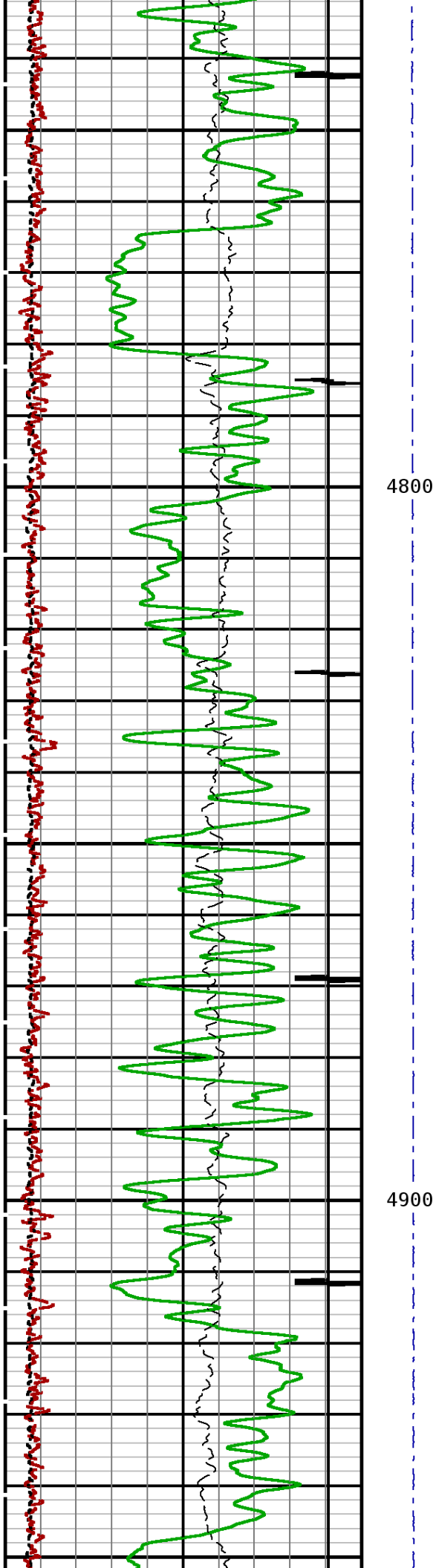


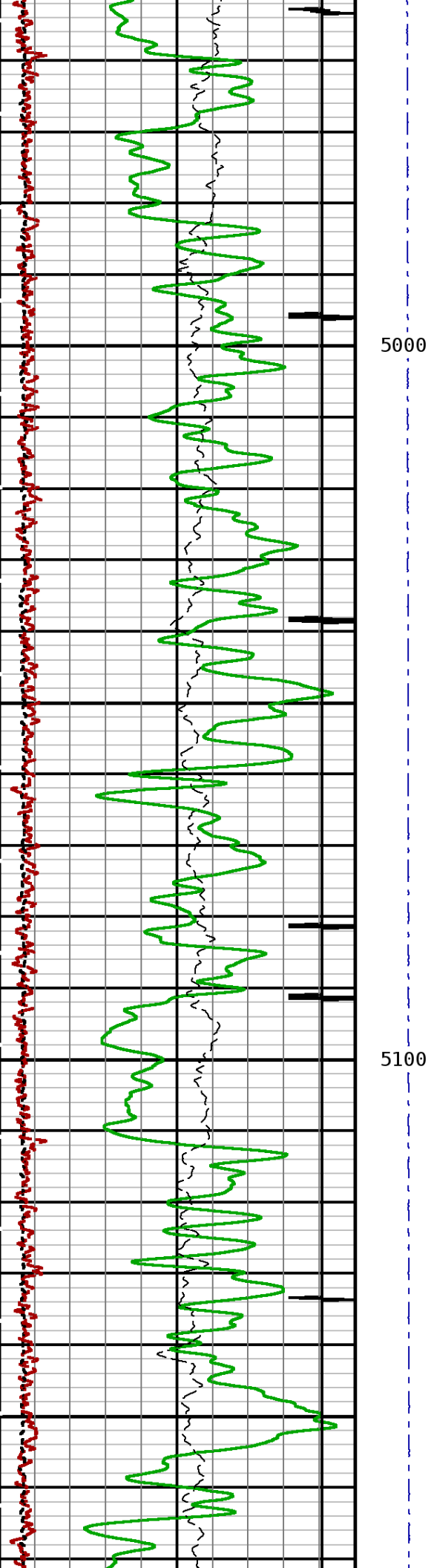
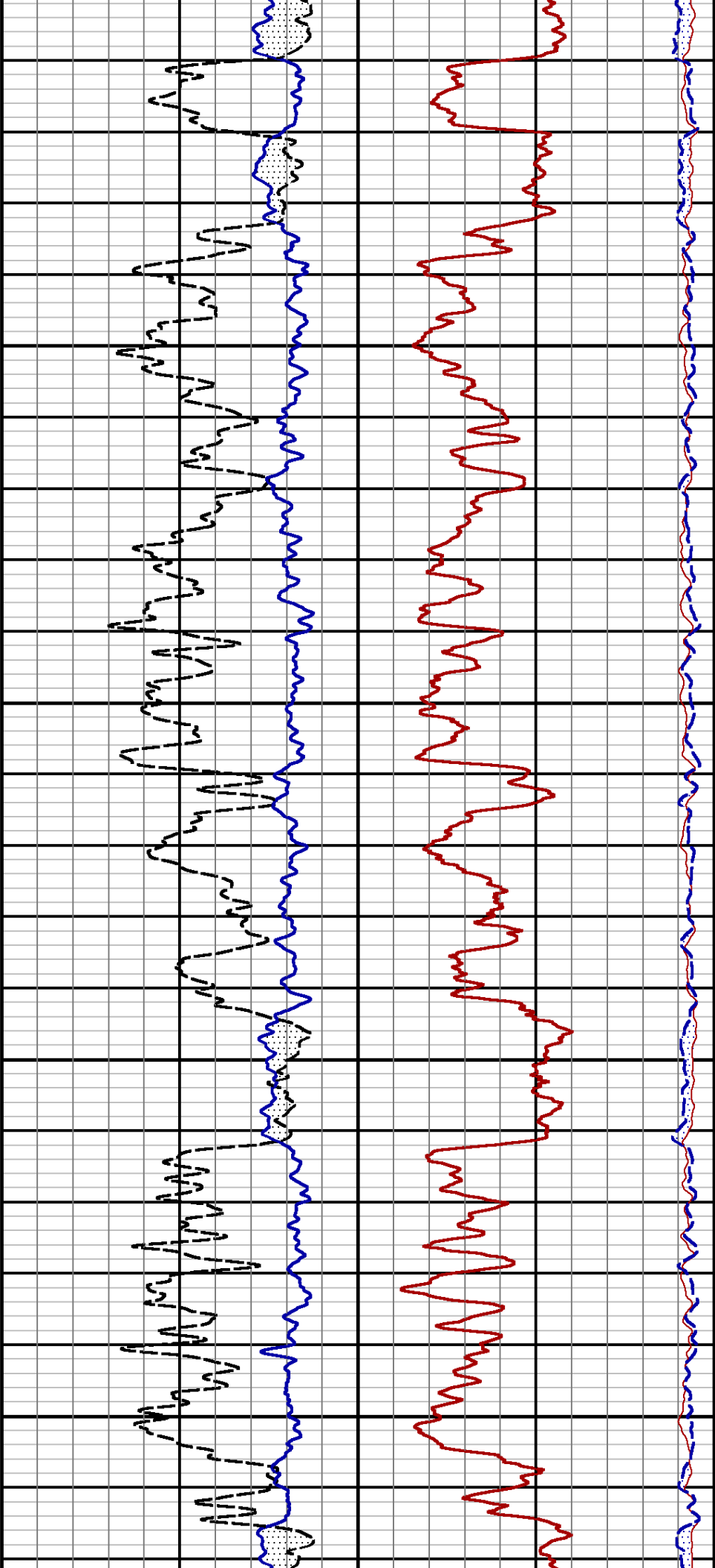


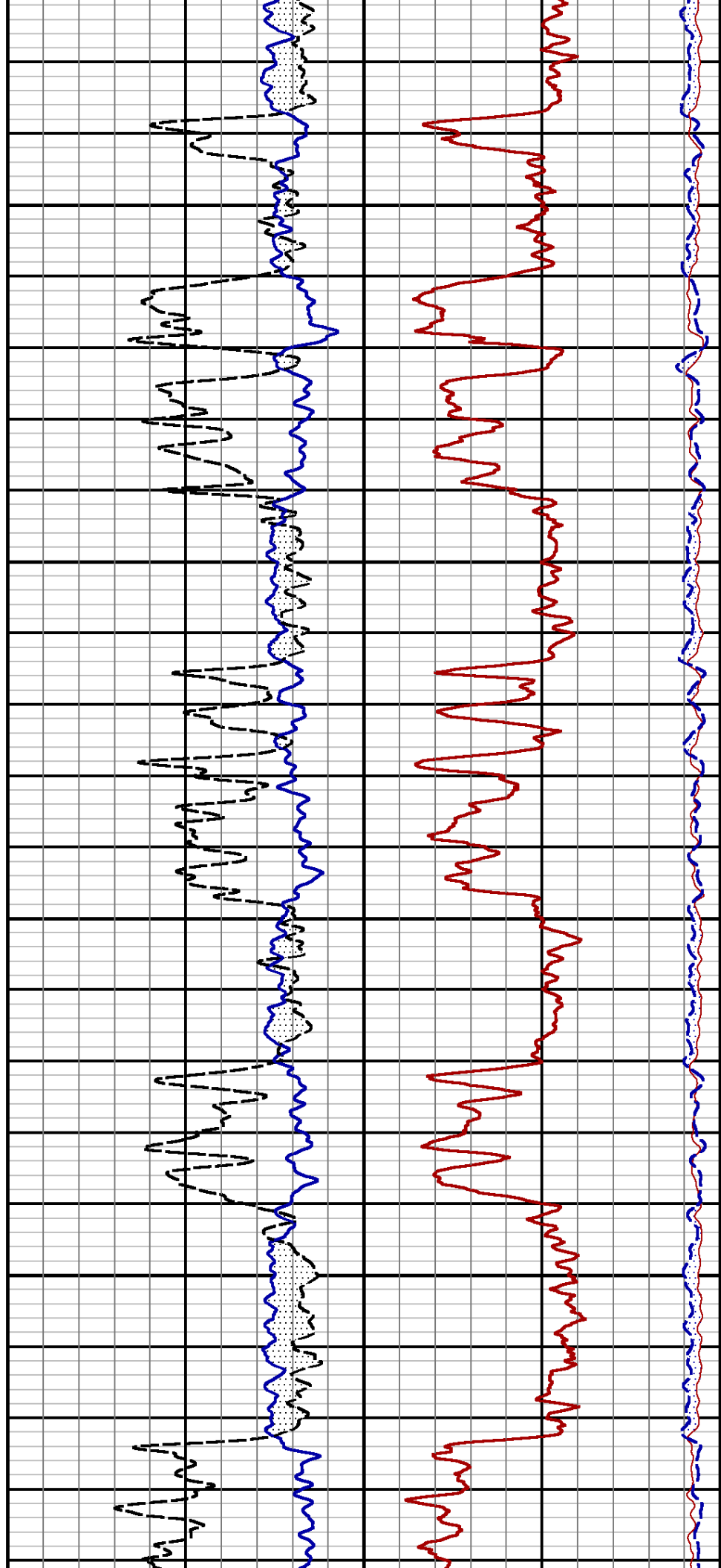
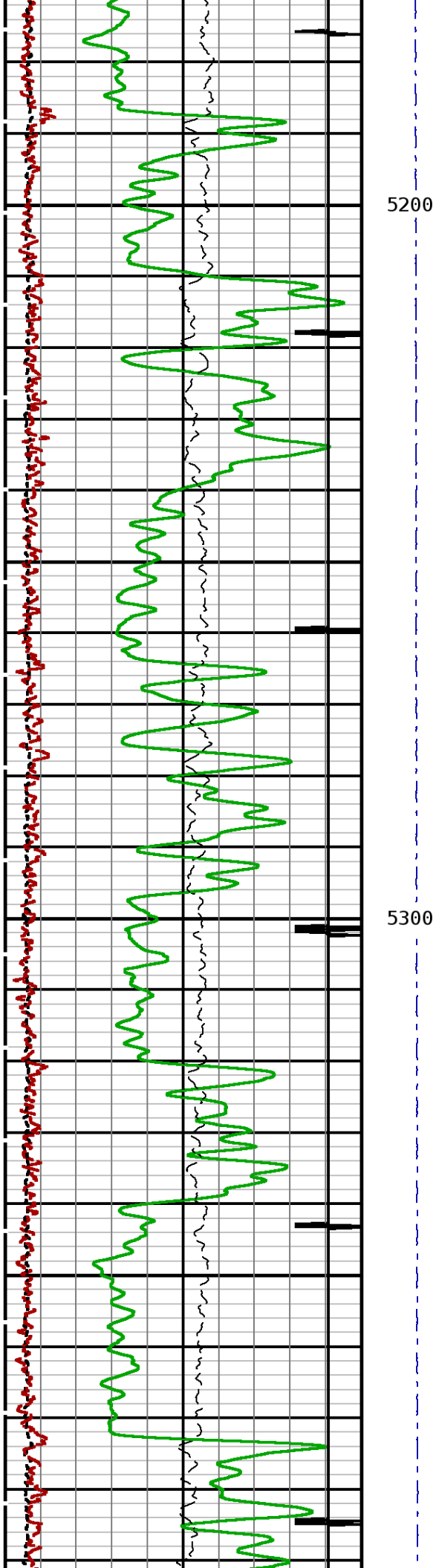


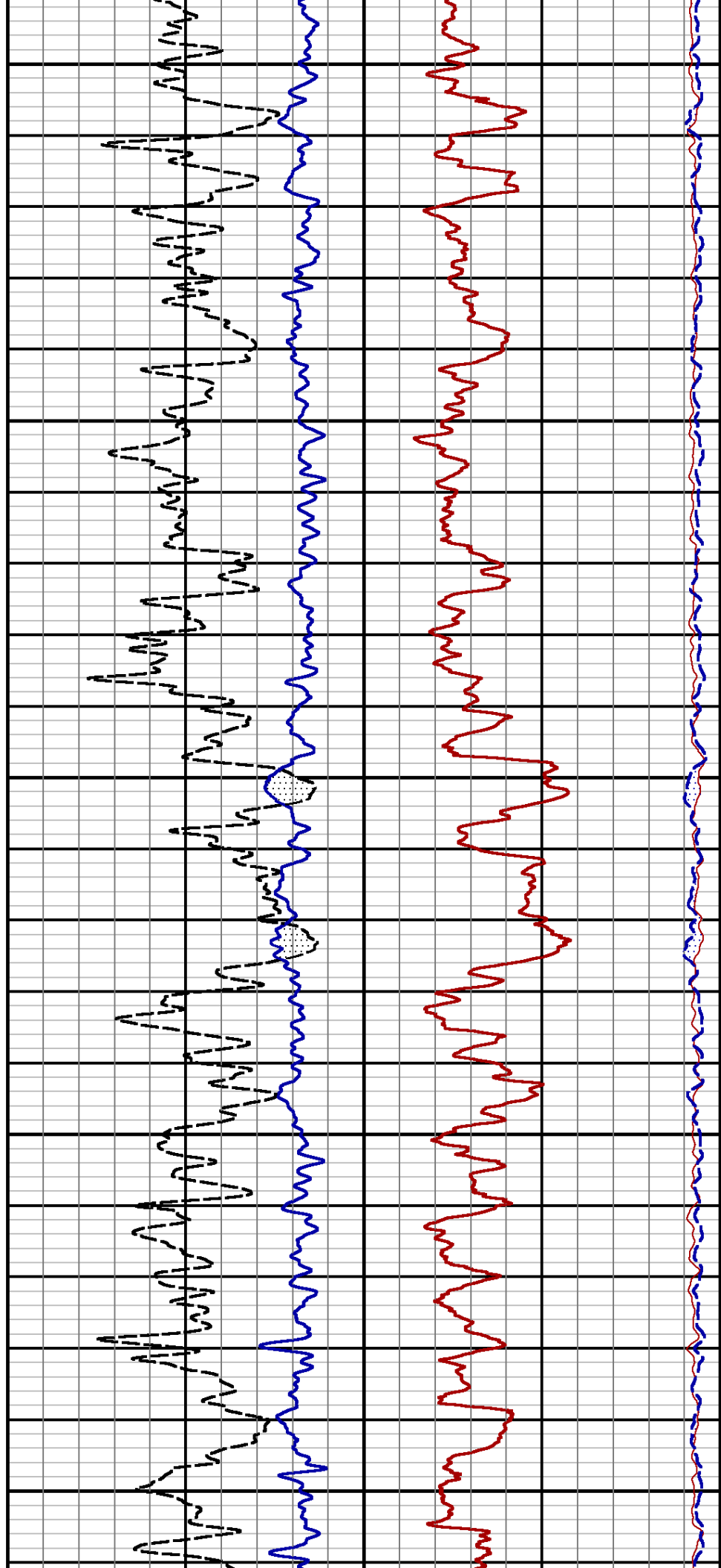
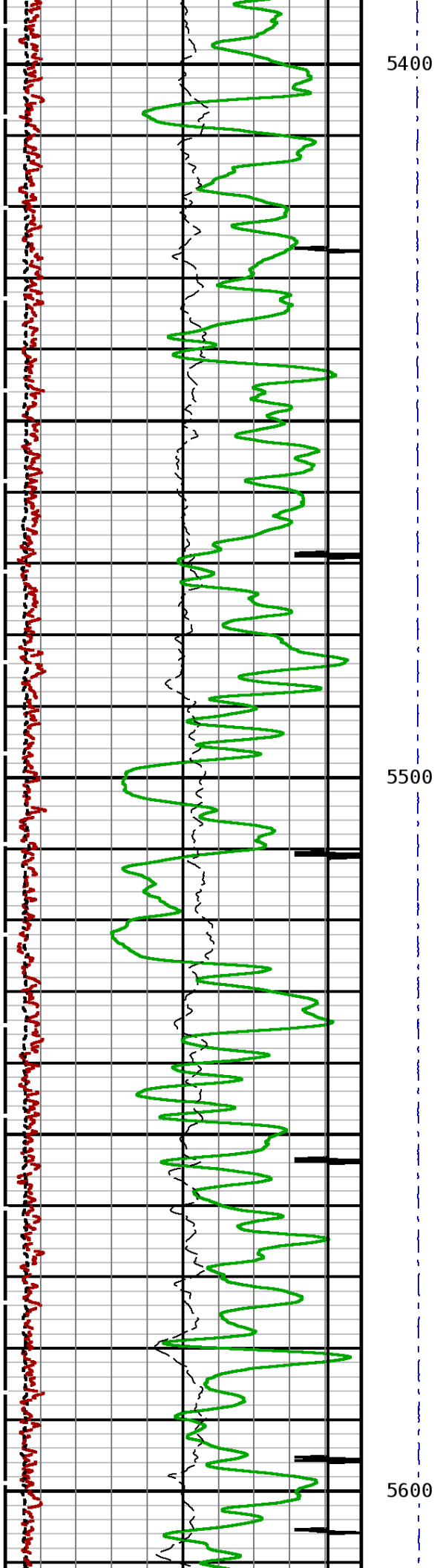


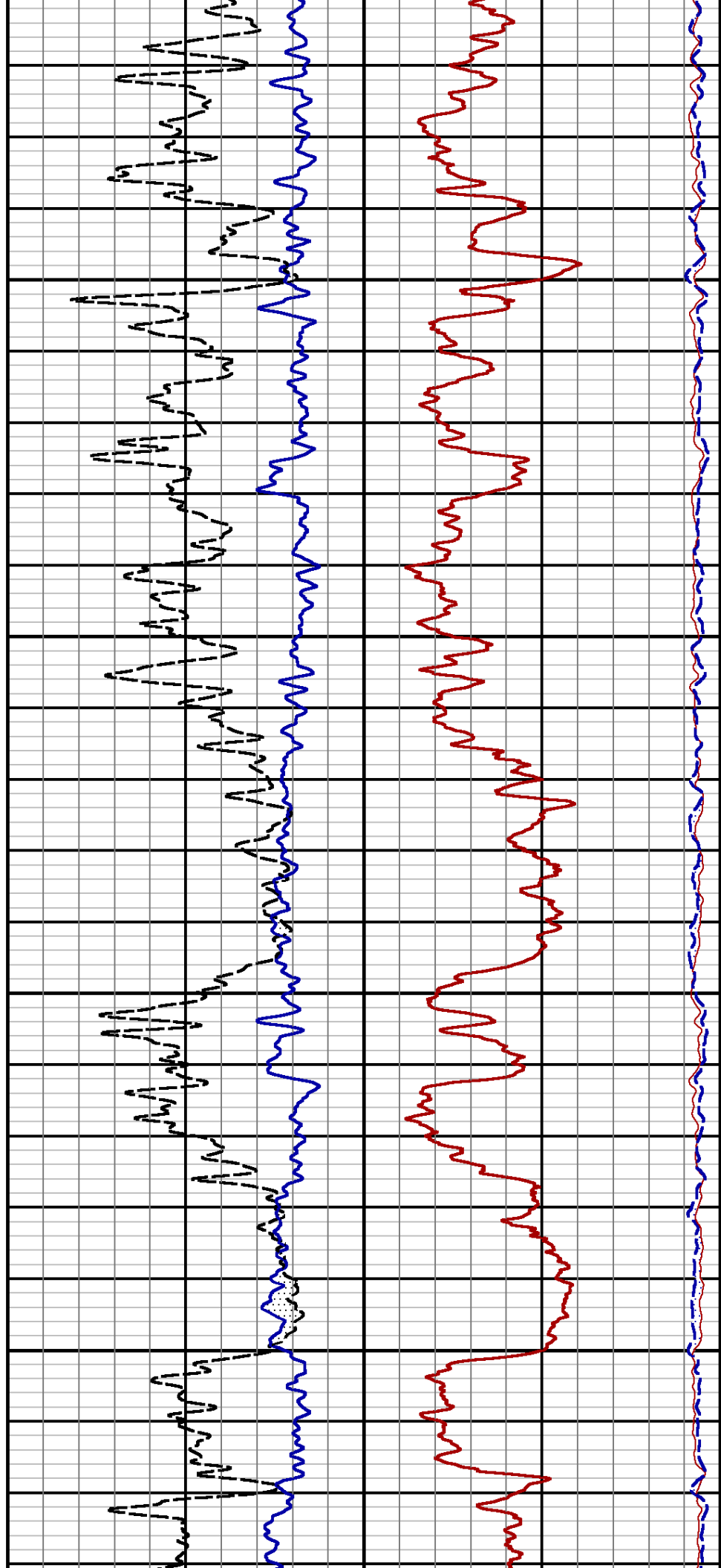
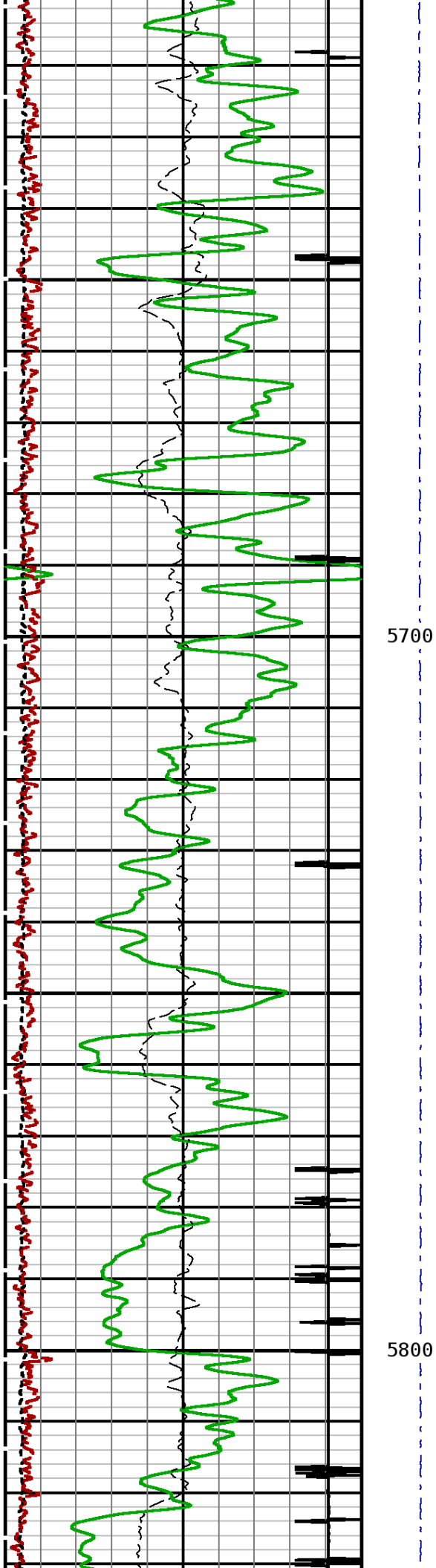




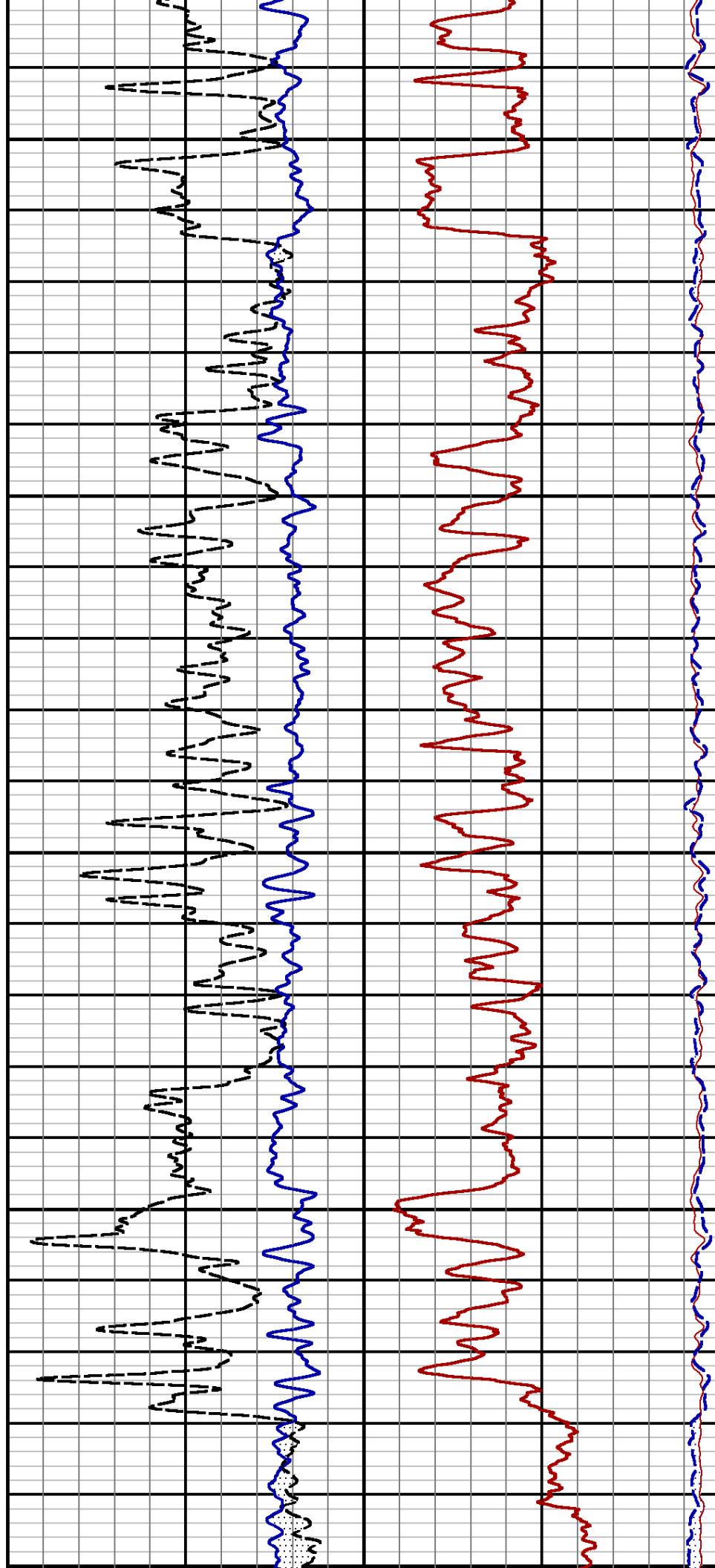
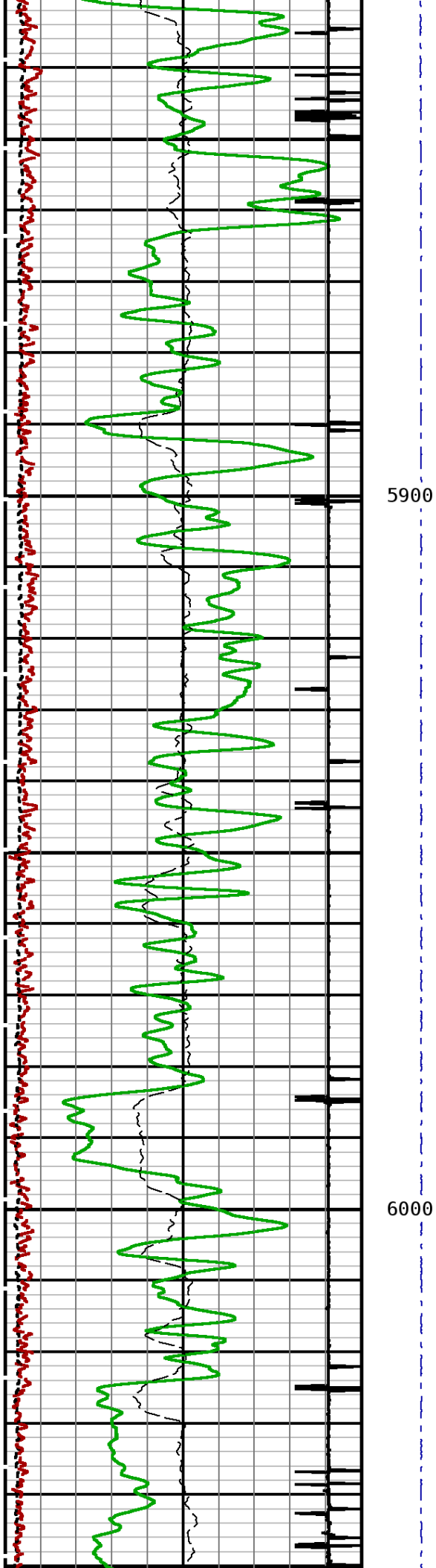




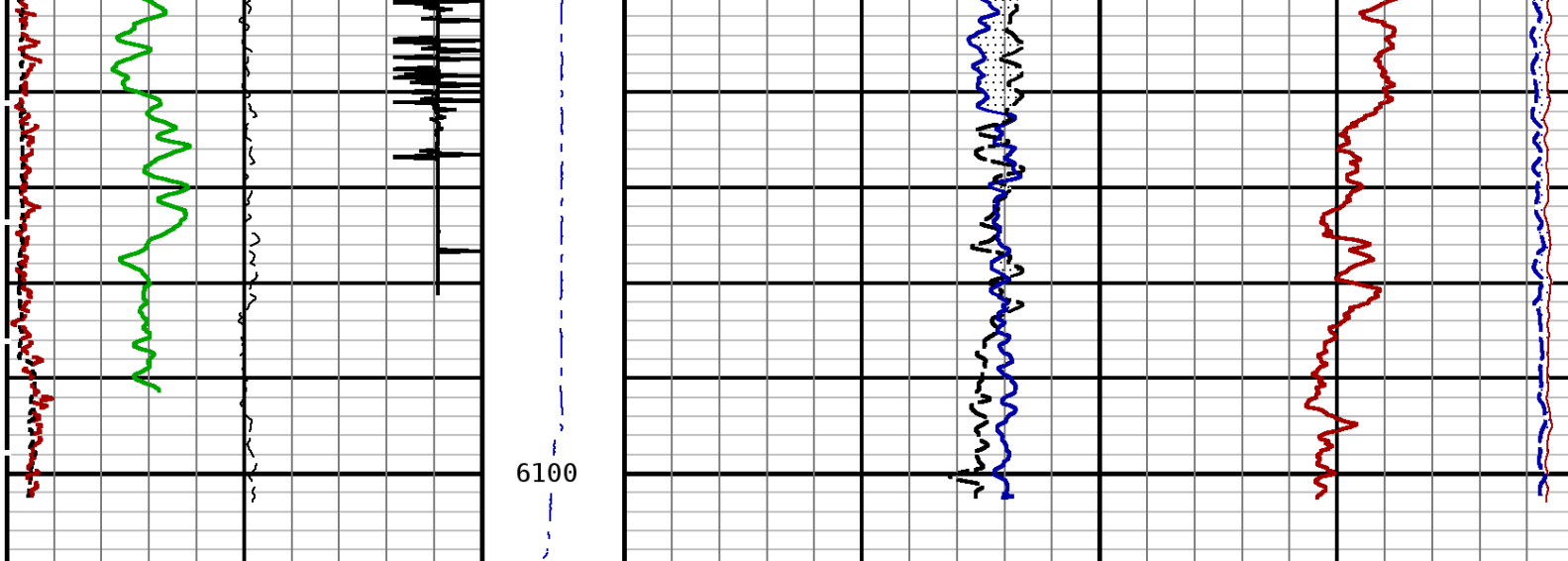












OUTPUT QUALITY		Tension	Formation Sigma	
0.0	200000.0	0 2000	60.0	0.0
GAMMA RAY				
0	API	150		
CCL				
-10000	Millivolts	1000		
Near Background				
0.0	30000.0			
Far Background				
0.0	3000.0			

START DEPTH: 6109.7    DIRECTION: UP    DATE: 02/27/2014    TIME: 09:03    MODE: TRACE PLAYBACK				
80195239 PNDMAINF				
MAIN PASS				
DEPTH SCALE: 5":100'		LOGGED VERSION: 2012.07.18.162"		

DEPTH SCALE: 5":100'		PROCESSED VERSION: 2012.07.18.162"		
REPEAT PASS				
80195239 PNDREPEAT				
FINISH DEPTH: 2865.3 Feet	DIRECTION: UP	DATE: 02/27/2014	TIME: 09:13	MODE: TRACE PLAYBACK

Far Background

0.03000.0

Near Background

0.030000.0

CCL

-10000Millivolts1000

GAMMA RAY

0API150

OUTPUT QUALITY

0.0200000.0

Ratio Bore n to f

-1.014.0

FAR 1

40.0Counts/Second0.0

RATIO

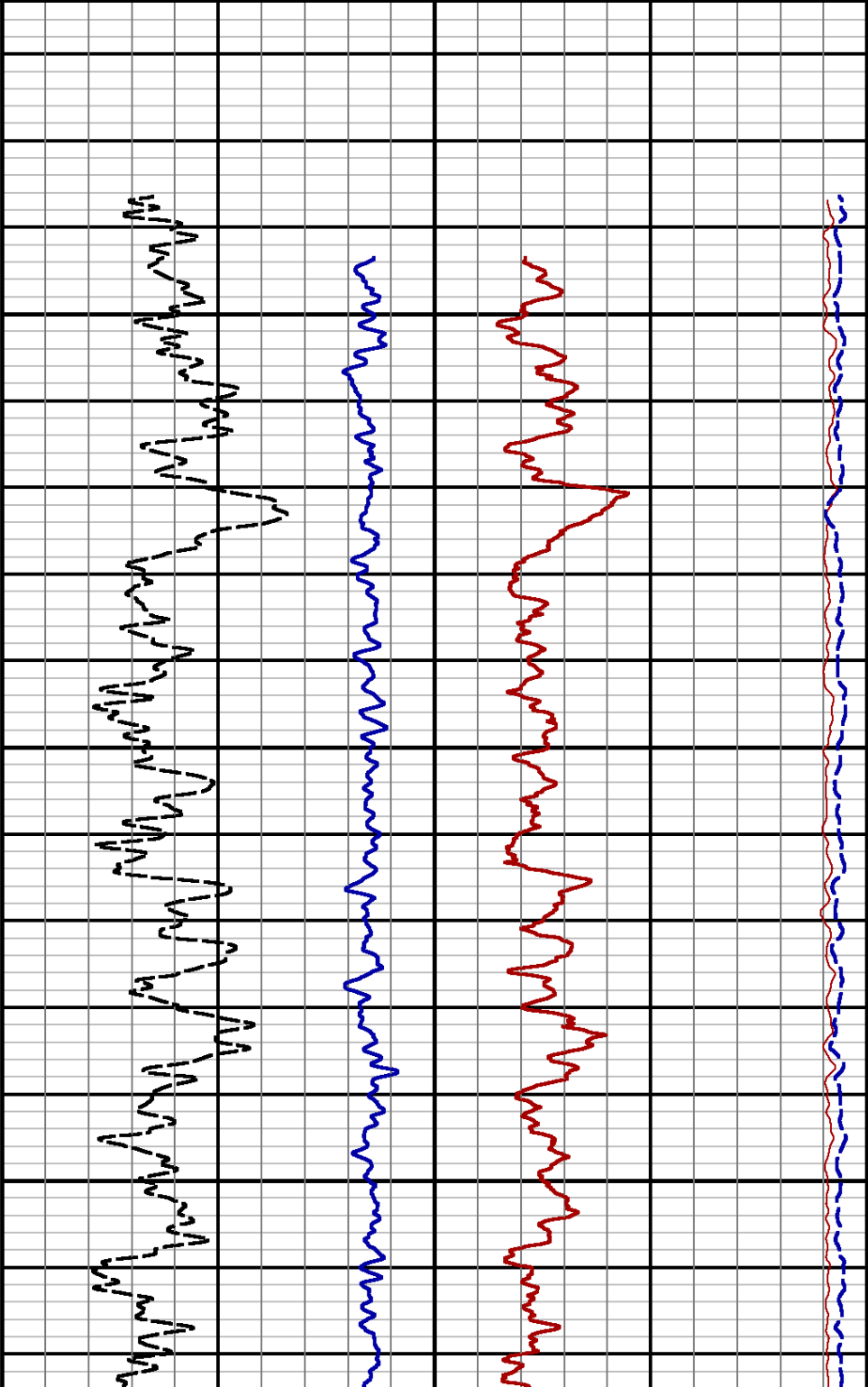
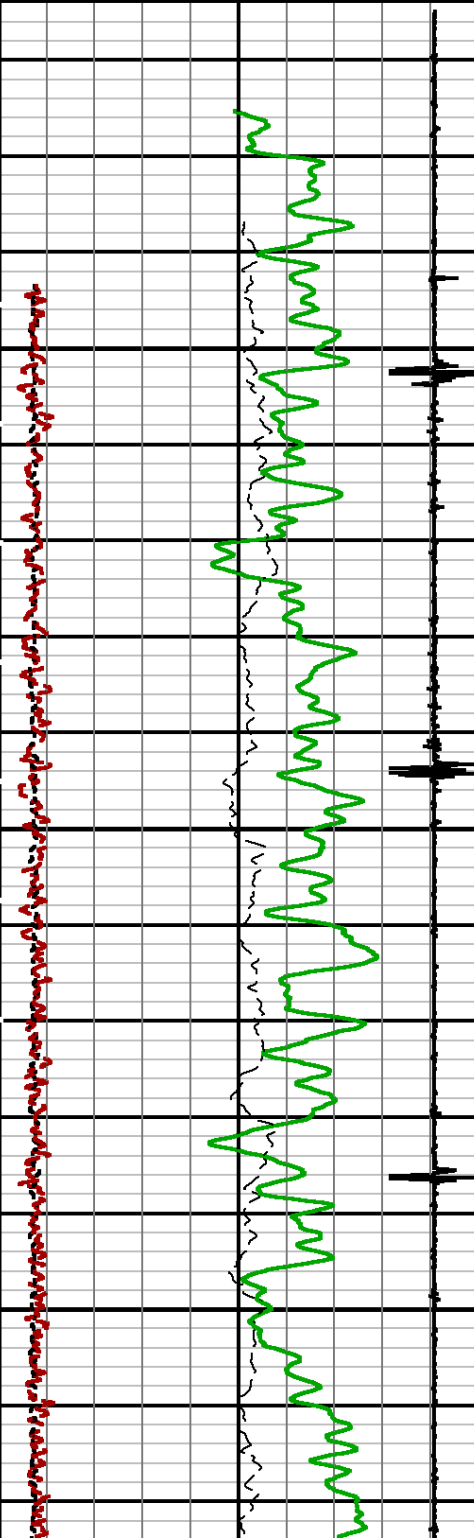
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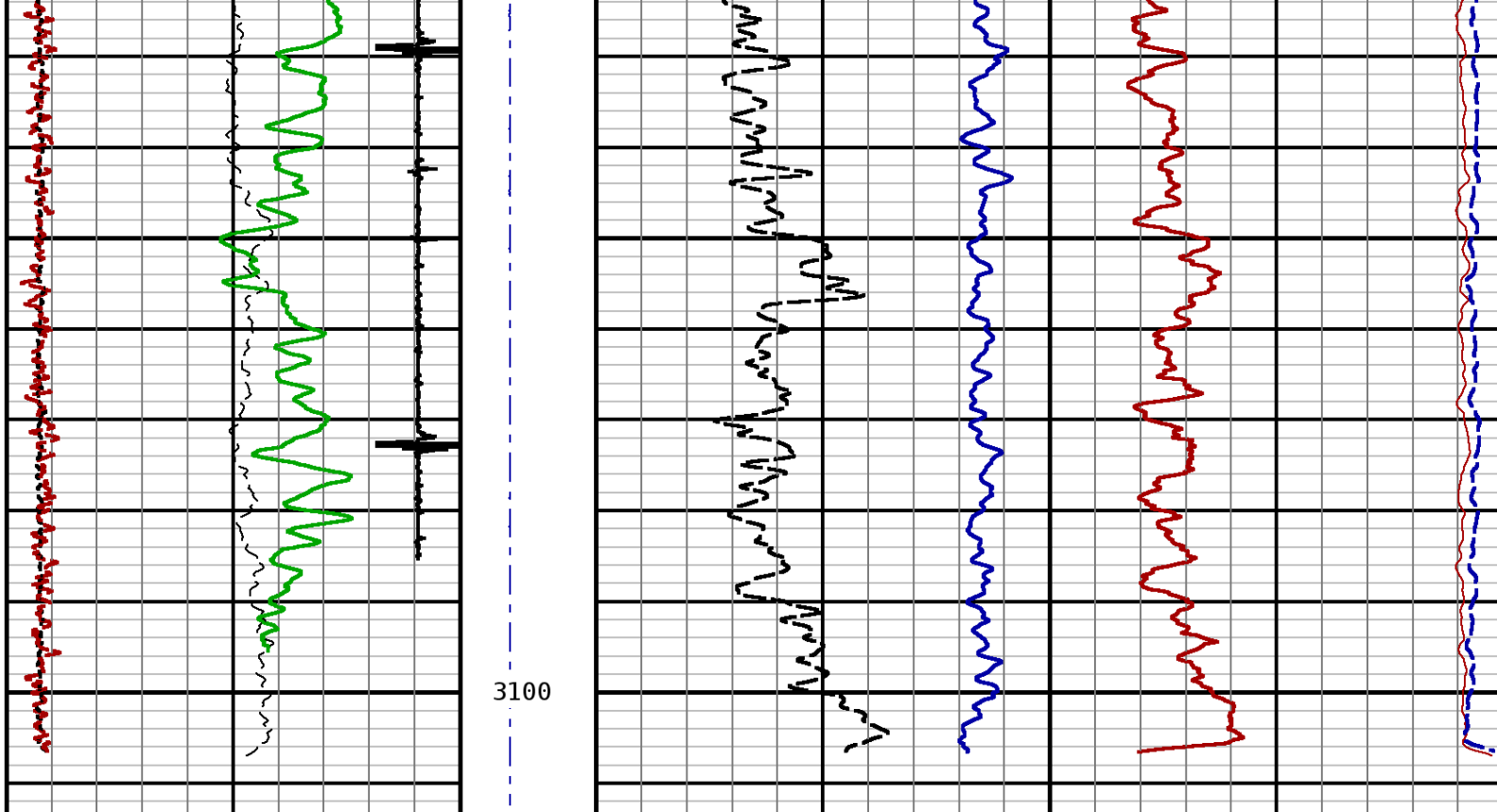
NEAR 1

240.0Counts/Second0.0

Formation Sigma

60.00.0





OUTPUT QUALITY		Tension	Formation Sigma	
0.0	200000.0	0 2000	60.0	0.0
GAMMA RAY				
0	API	150		
CCL				
-10000	Millivolts	1000		
Near Background				
0.0	30000.0			
Far Background				
0.0	3000.0			

START DEPTH: 3113.7	DIRECTION: UP	DATE: 02/27/2014	TIME: 09:13	MODE: TRACE PLAYBACK
80195239 PNDREPEAT				

REPEAT PASS	
DEPTH SCALE: 5":100'	LOGGED VERSION: 2012.07.18.162"

COMPANY	URSA OPERATING COMPANY
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WELL	BAT 12C-24-07-96		
FIELD	BATTLEMENT MESA		
COUNTY	GARFIELD	STATE	COLORADO

