



COMPOSITE LOG

Company C & G DRILLING, INC.		Company C & G DRILLING, INC.	
Well	HALL B # 1	Well HALL B # 1	
Field	PLUM GROVE NORTHWEST	Field PLUM GROVE NORTHWEST	
County	BUTLER	County BUTLER	
State	KANSAS	State KANSAS	
Location:		API # : 15-015-24162-00-00	
Permanent Datum		SE NW SE NE	
Log Measured From		3620' FSL & 952' FEL	
Drilling Measured From		SEC 14 TWP 24S RGE 4E	
Elevation		1411	
Other Services		CDLN MEL DIL	
K.B. 1417 D.F. 1416 G.L. 1411			
Date	4-16-2022		
Run Number	ONE		
Depth Driller	2563		
Depth Logger	2566		
Bottom Logged Interval	2564		
Top Log Interval	SURFACE		
Casing Driller	8.625" @ 200		
Casing Logger	8.625" @ 206		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Density / Viscosity	9.6 / 55		
pH / Fluid Loss	9.5 / 12.8		
Source of Sample	PIT		
Rm @ Meas. Temp	4 @ 70		
Rmf @ Meas. Temp	3.2 @ 70		
Rmc @ Meas. Temp	4.8 @ 70		
Source of Rmf / Rmc			
Rm @ BHT	1.5 @ 100		
Time Circulation Stopped	1:00 PM		
Time Logger on Bottom	4:00 PM		
Maximum Recorded Temperature	100		
Equipment Number	OW2		
Location	HOMINY, OK		
Recorded By	SHELDON TYLER	MACKAY	
Witnessed By	MR. GULICK	MR. STOUT	
		KIDD	
		MR. WOLFE	

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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

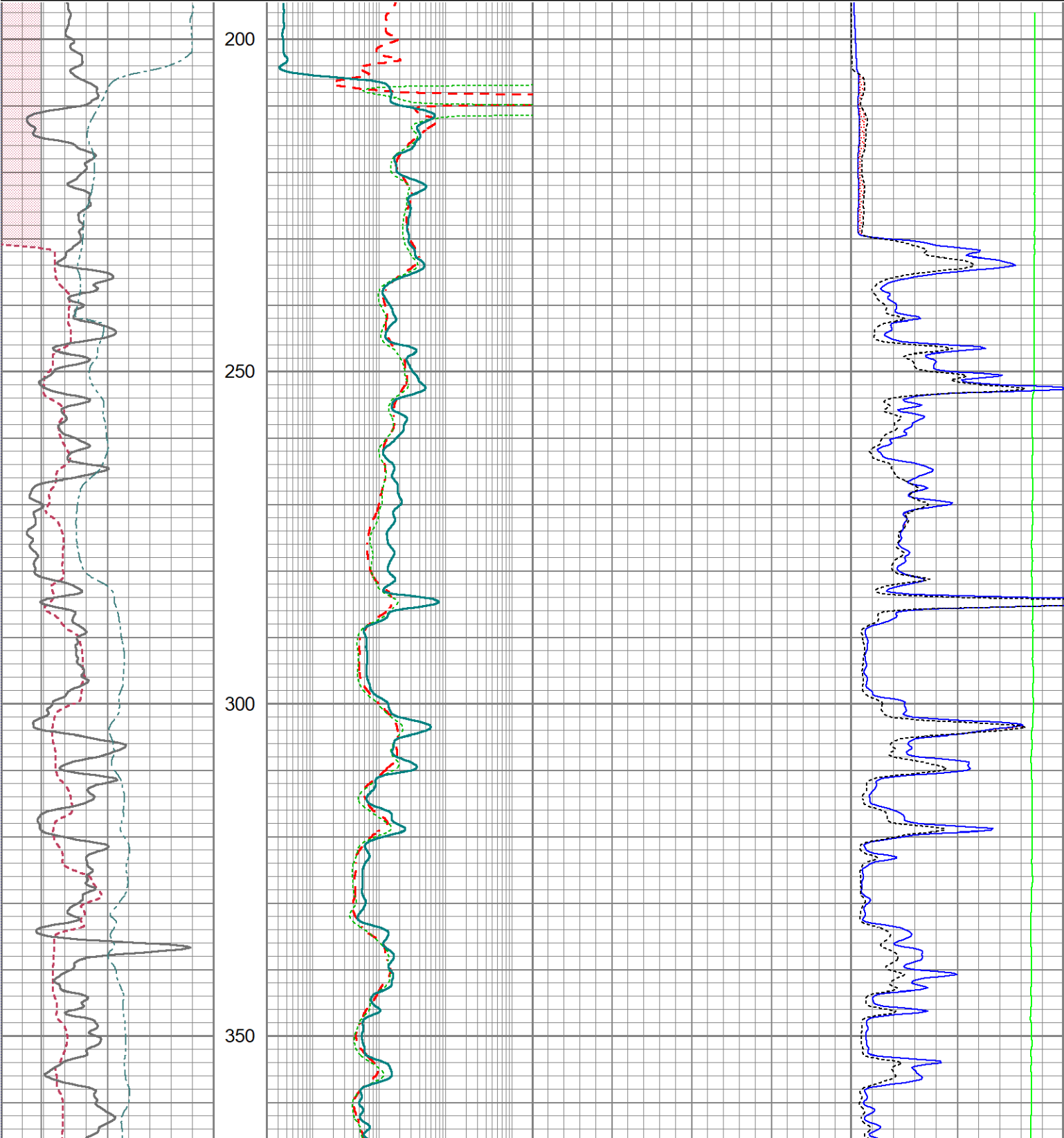
FILE # OW2-9043 C&g DRILLING
THANK YOU FOR USING OSAGE WIRELINE

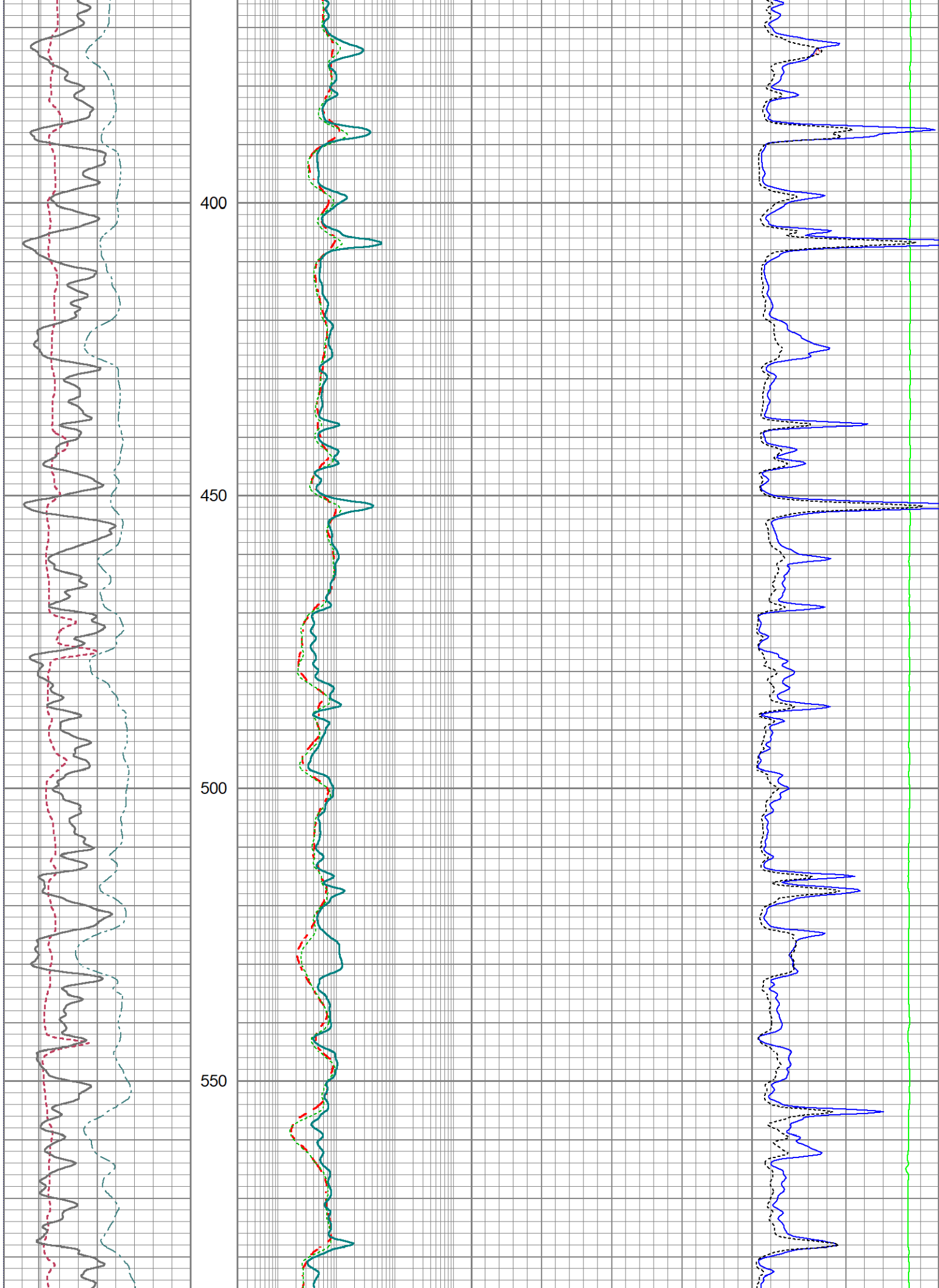


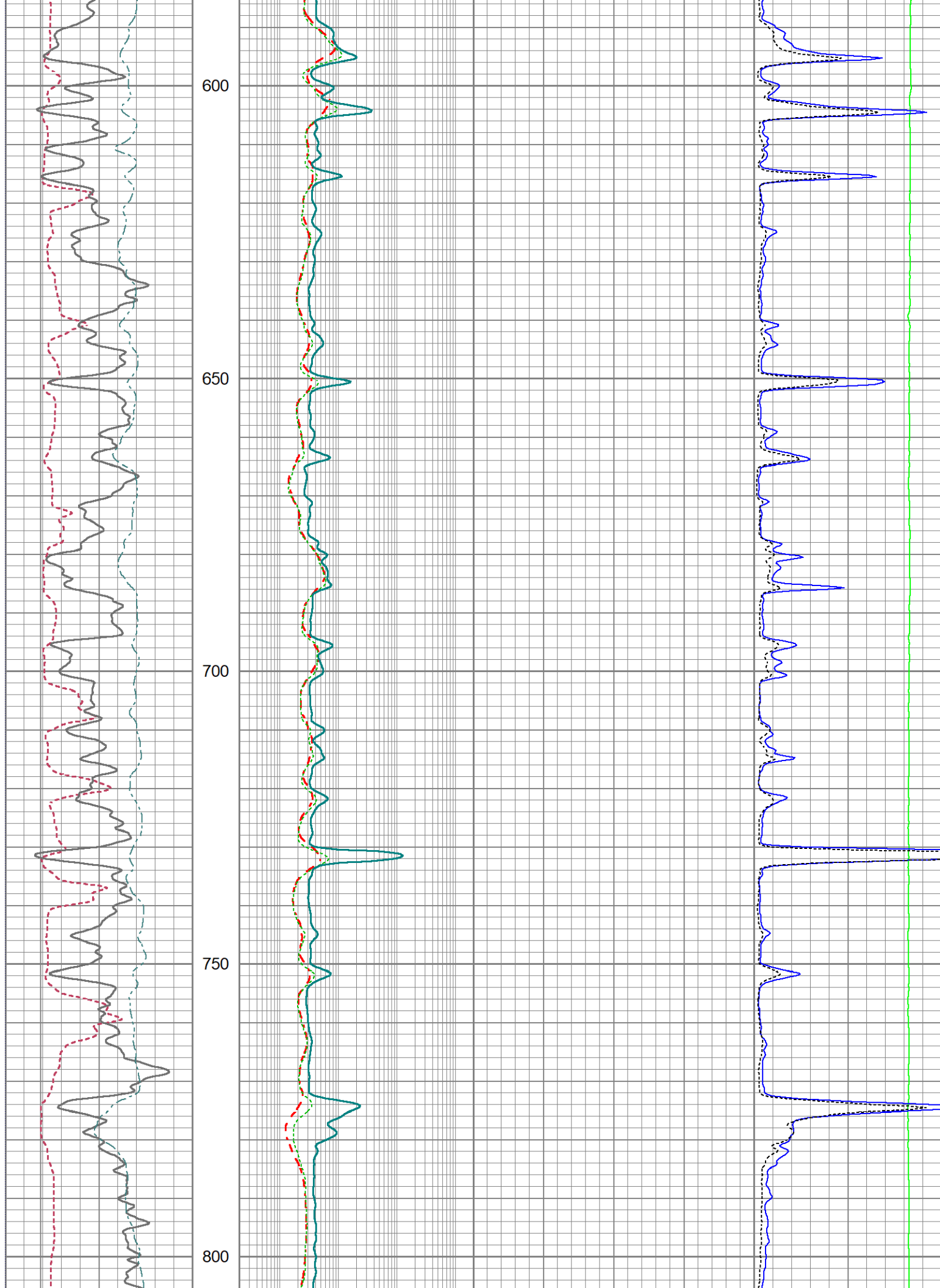
5" COMPOSITE LOG

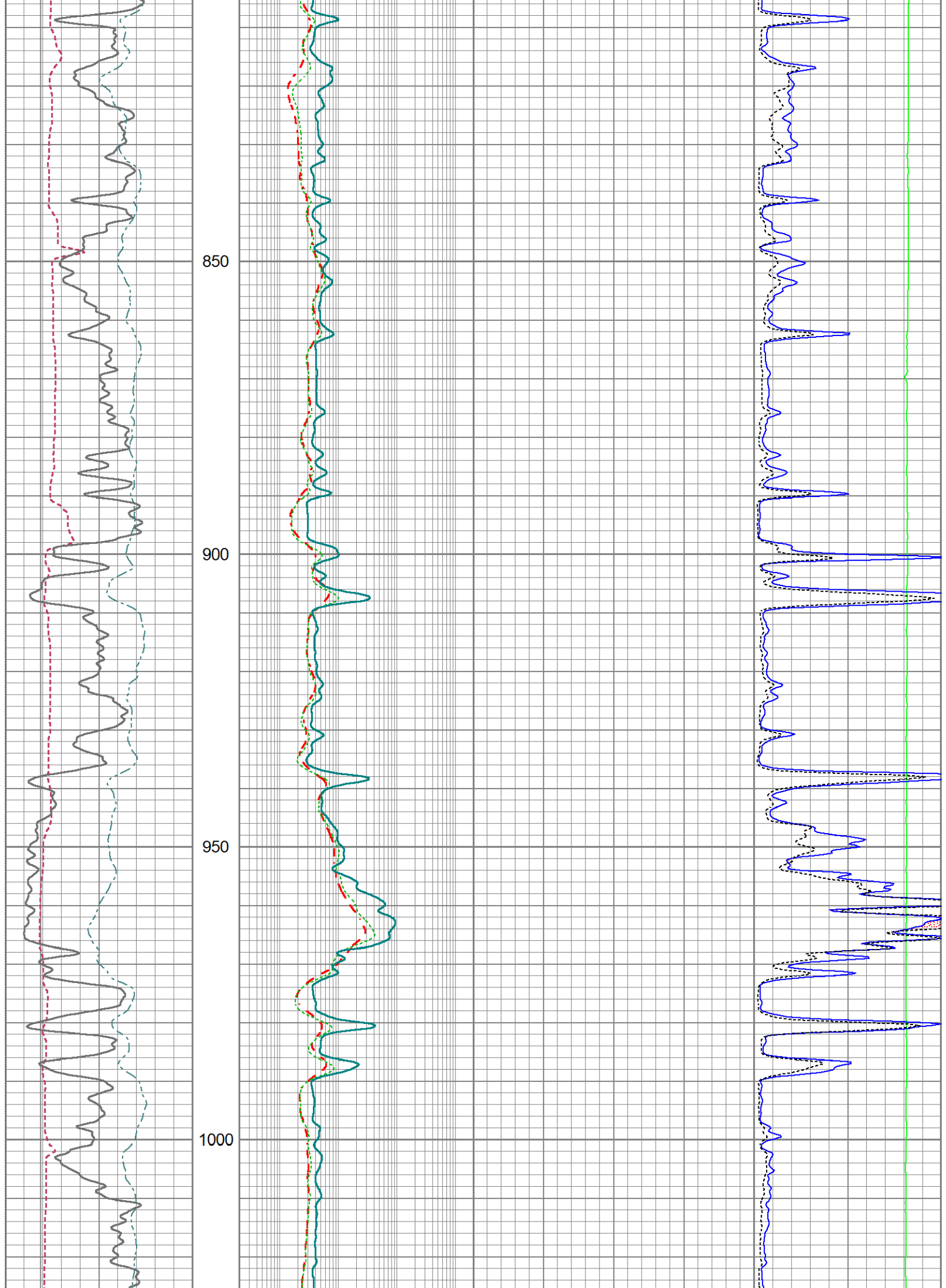
Database File	ow2-9043 c&g drilling.db
Dataset Pathname	pass2.7
Presentation Format	st_composite_6-16
Dataset Creation	Sat Apr 16 16:54:51 2022
Charted by	Depth in Feet scaled 1:240

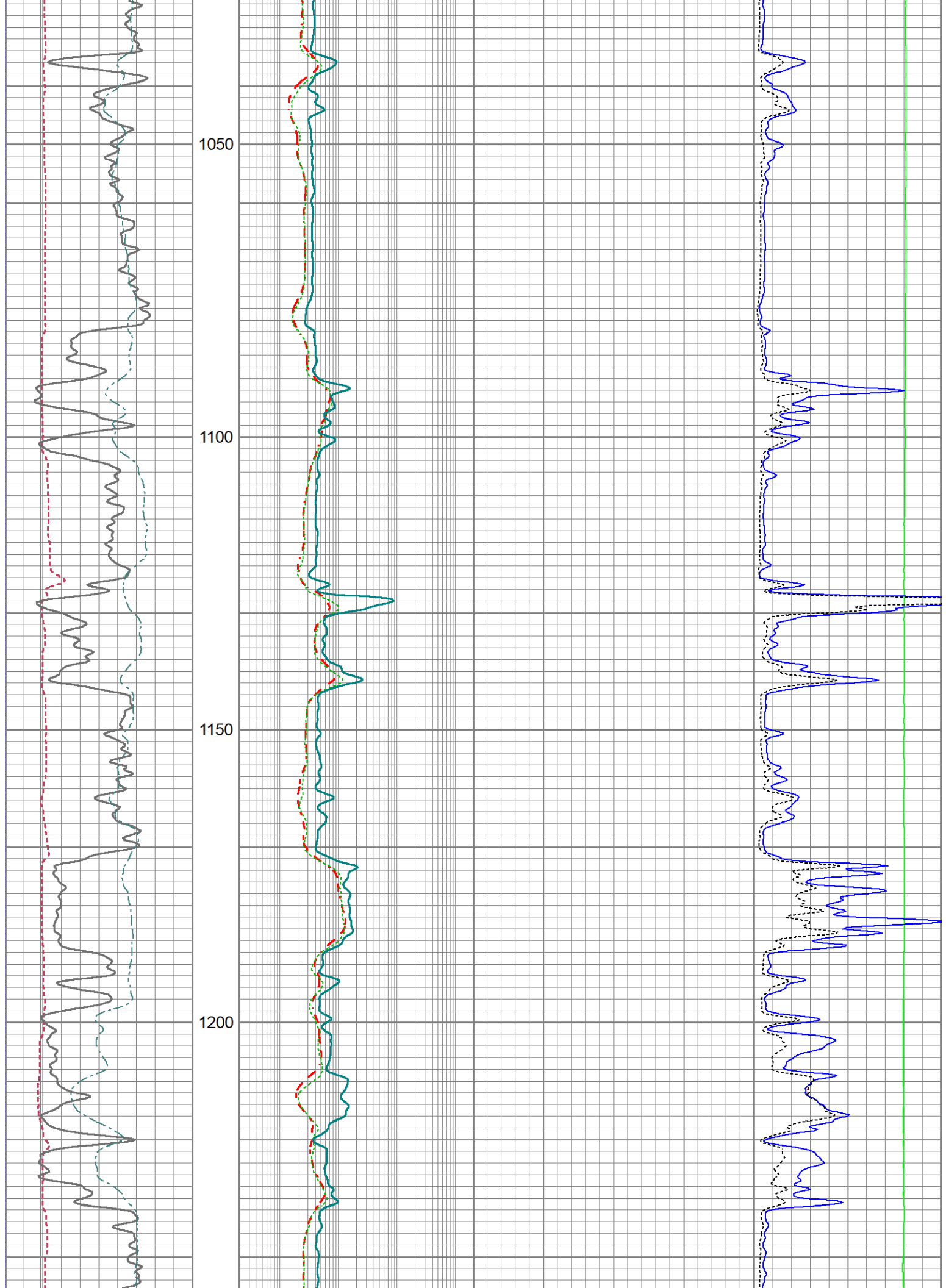
6	Bit Size (in)	16		Deep Resistivity			30	Density Porosity (pu)		-10	500(Line Tension (lb)		0
6	Micro Caliper (in)	16		0.2	(Ohm-m)	2000	30	Neutron Porosity (pu)		-10	Micro Inverse		
Gamma Ray				Medium Resistivity			2	Bulk Density (g/cc)		3	0	(Ohm-m)	40
0	(GAPI)	150		0.2	(Ohm-m)	2000	0	PE (barn)		20	Micro Normal		
30	SP (mV)	200		Shallow Resistivity					Correction		0	(Ohm-m)	40
				0.2	(Ohm-m)	2000			-0.5 (g/cc)	0.5			

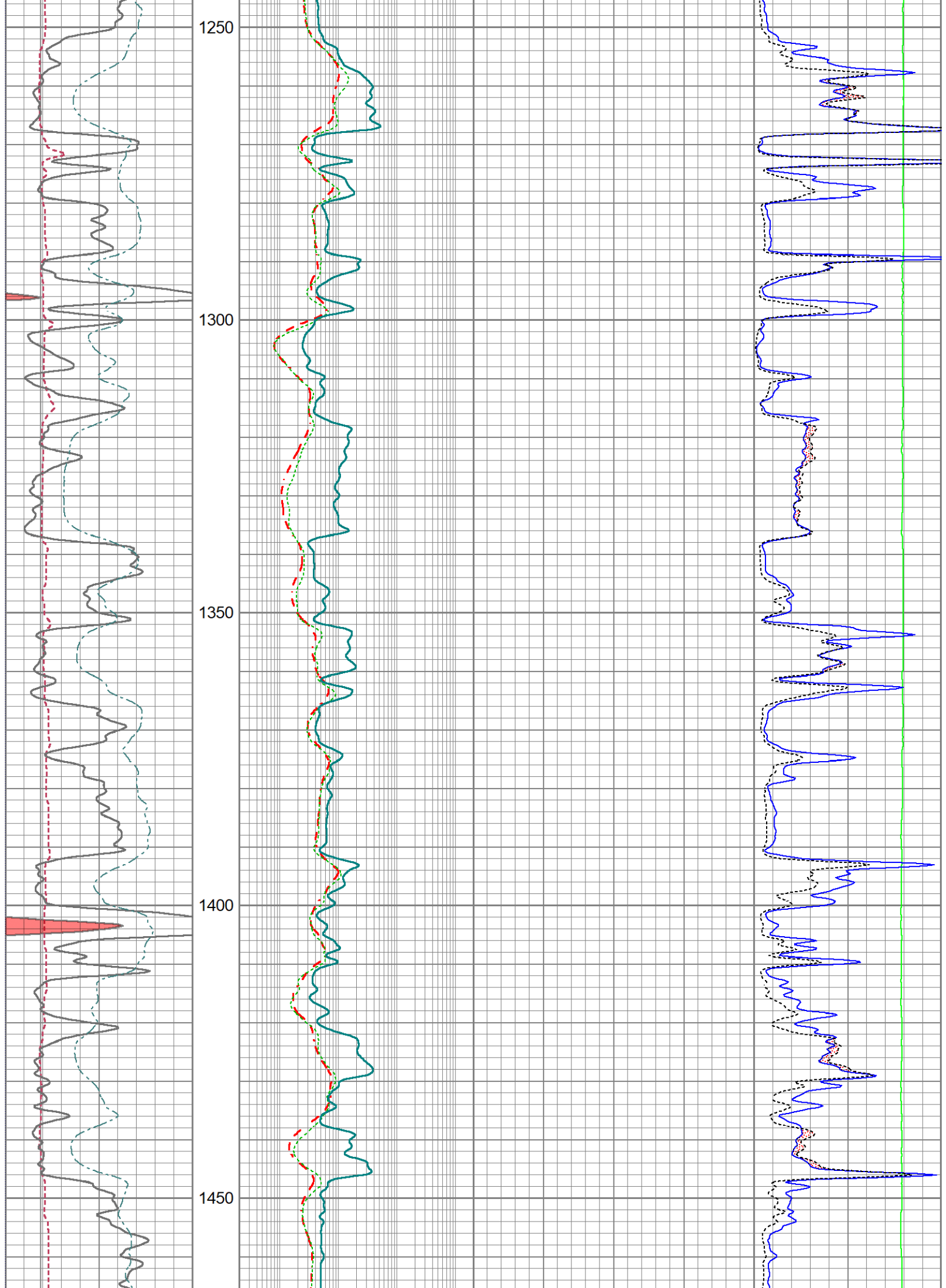


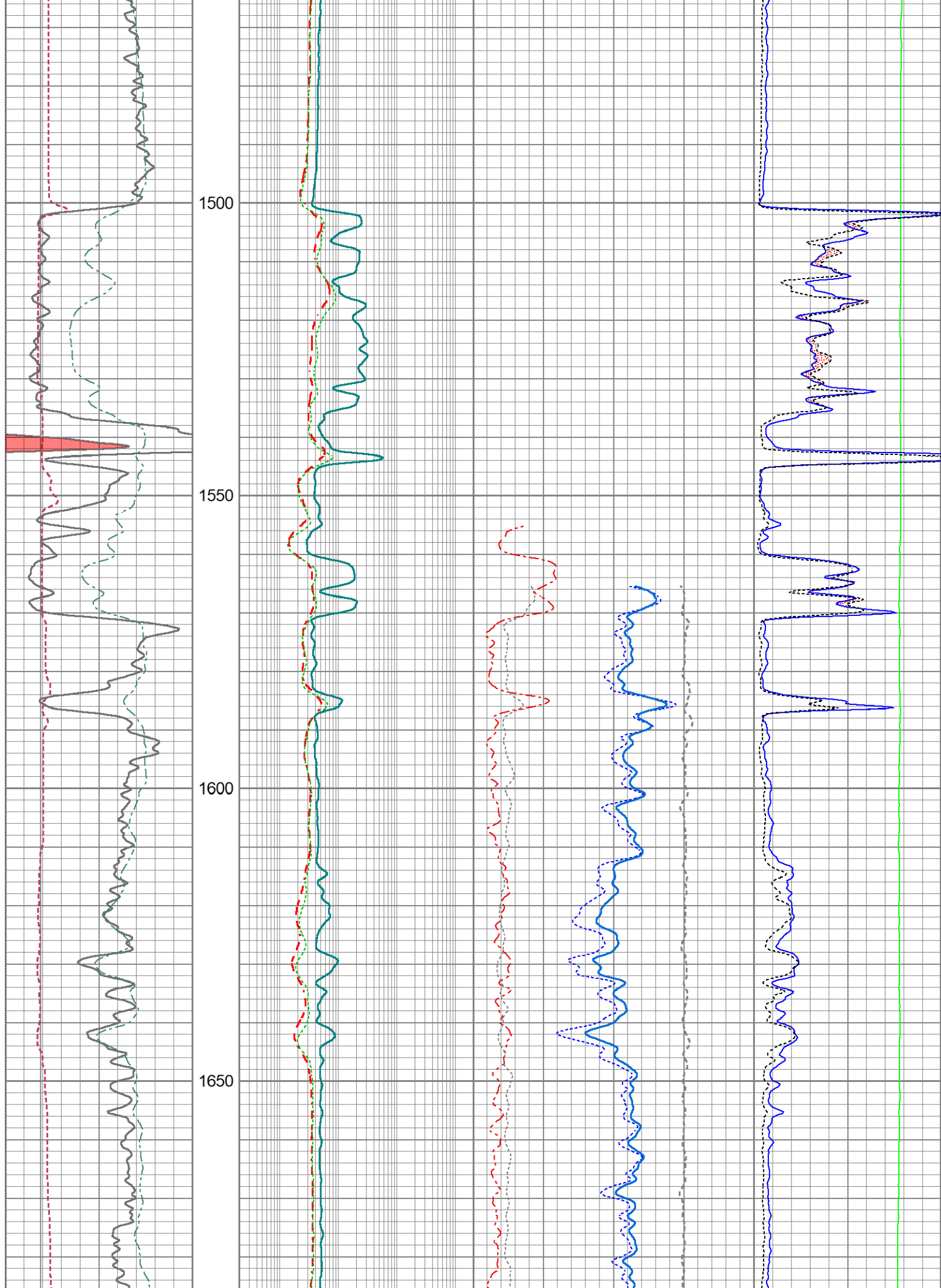


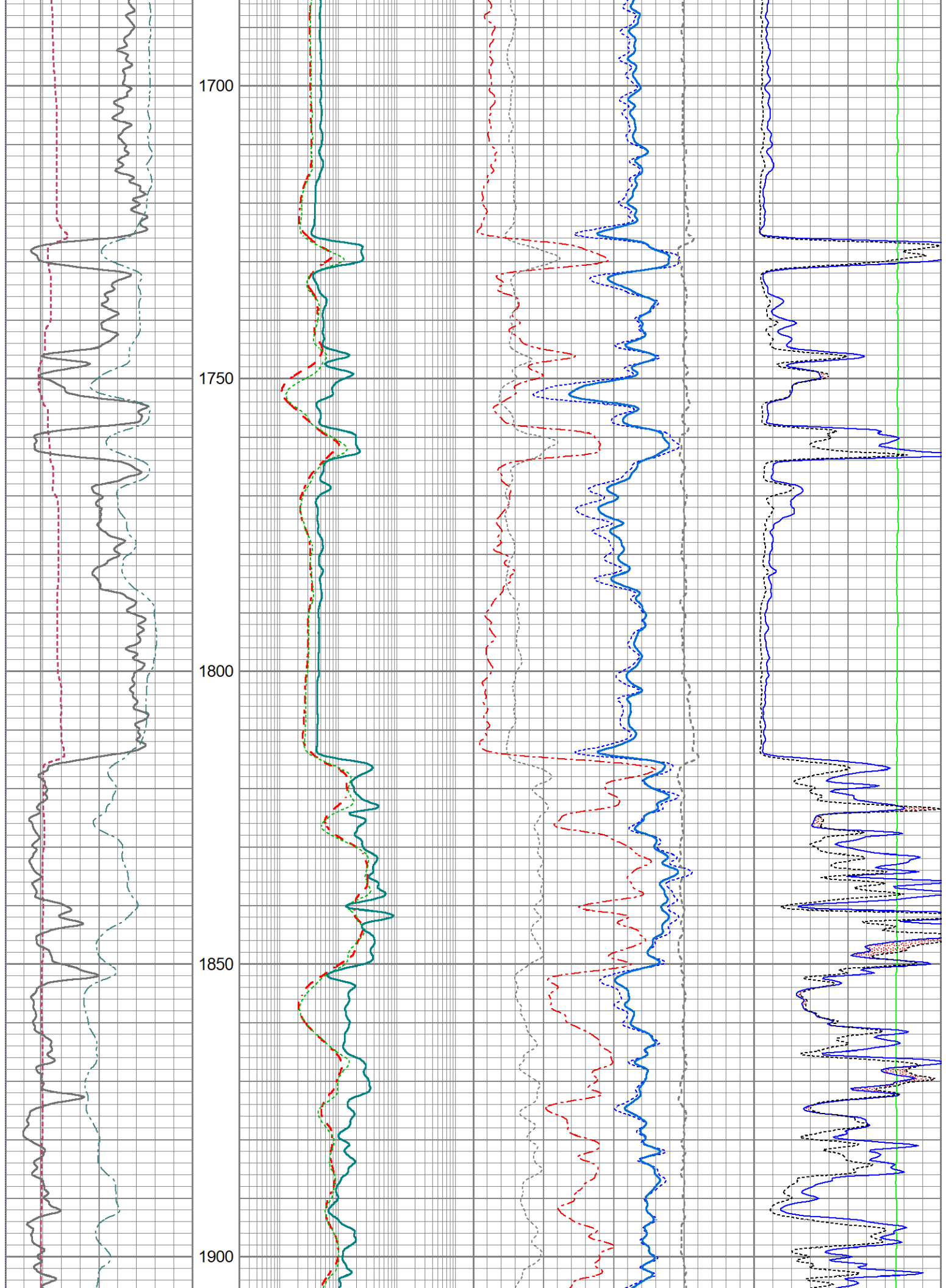


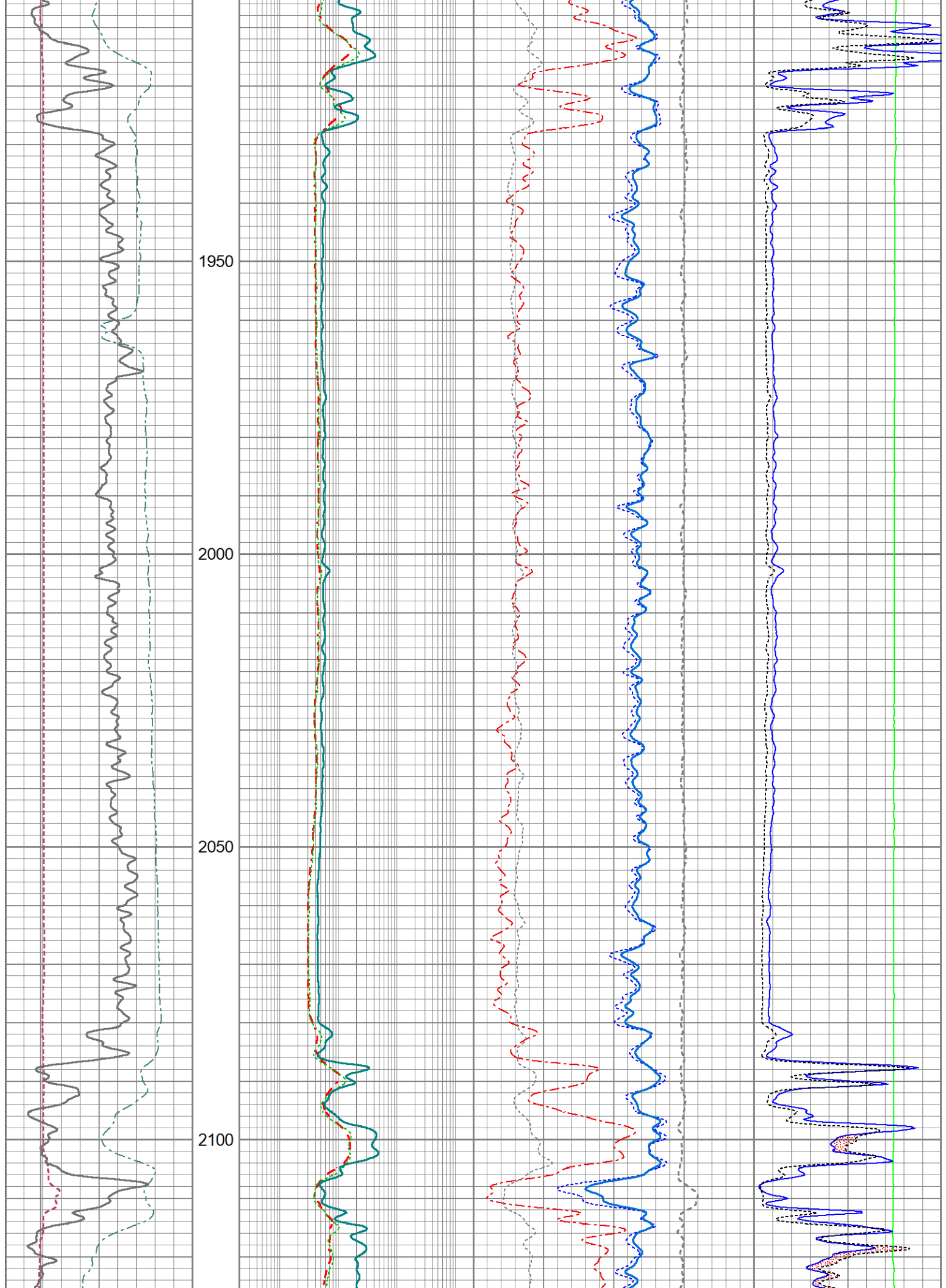


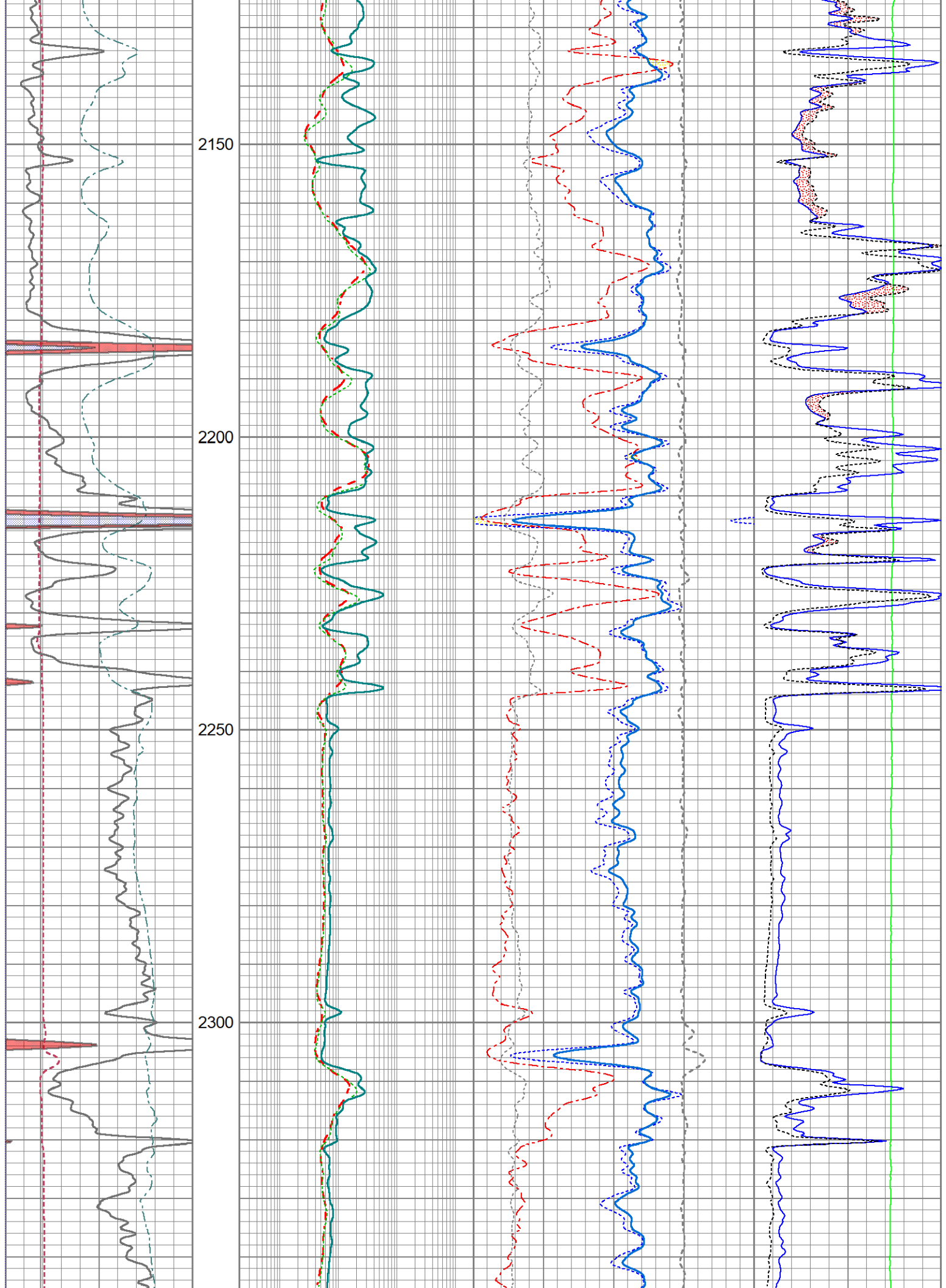


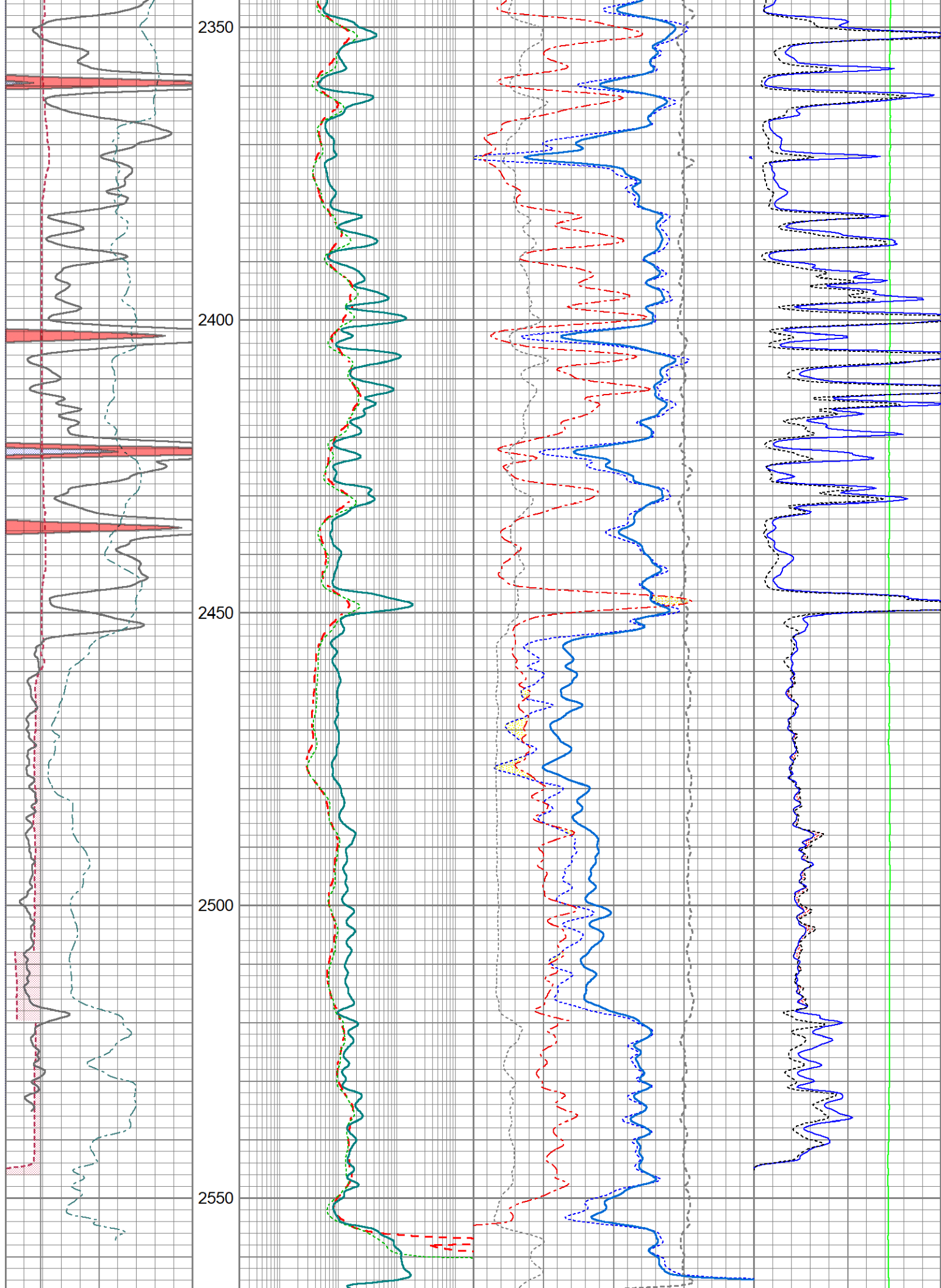












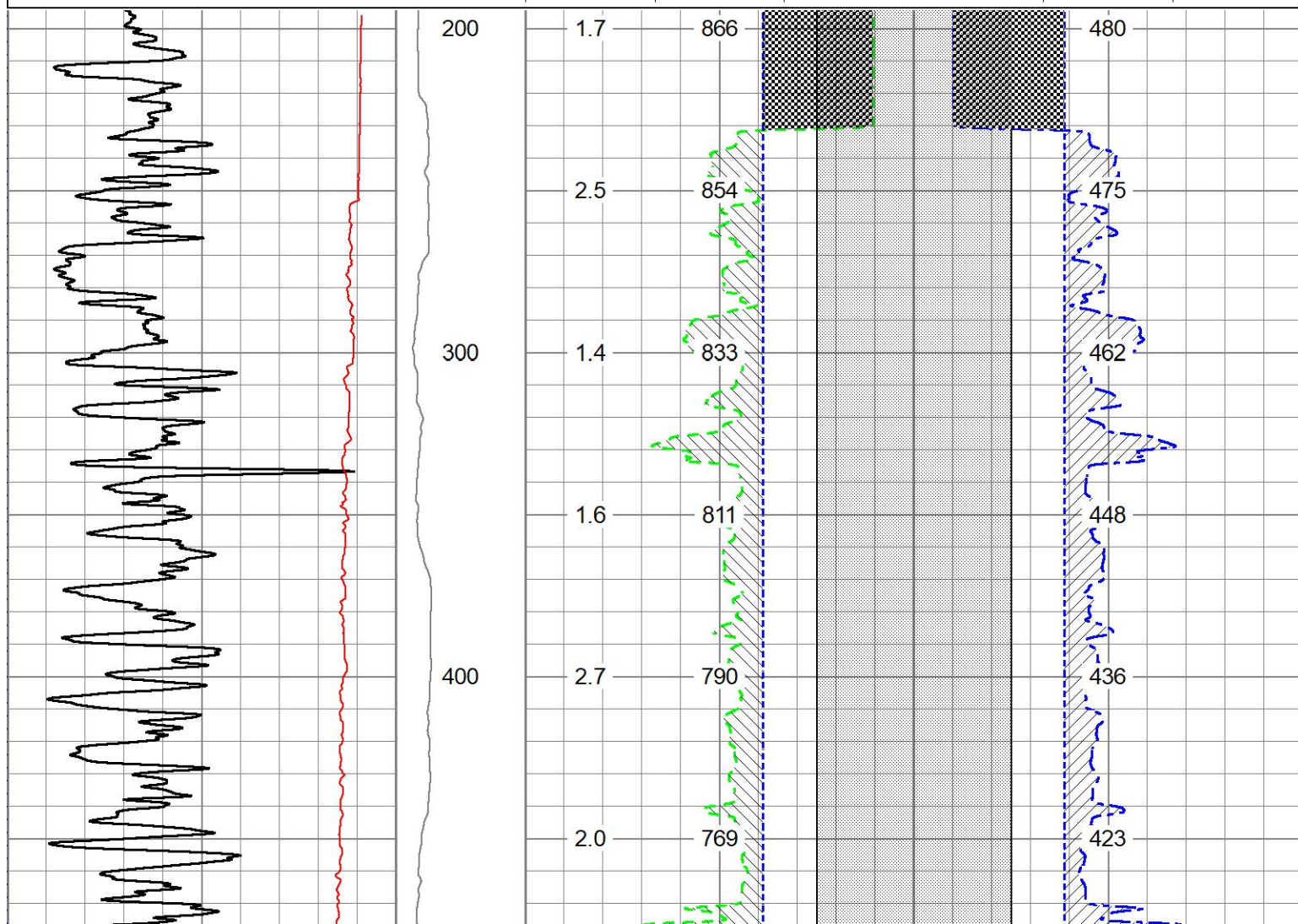
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6	Micro Caliper (in)	16	0.2	(Ohm-m)	2000	30	Neutron Porosity (pu)	-10	Micro Inverse		
Gamma Ray			Medium Resistivity			2	Bulk Density (g/cc)	3	0	(Ohm-m)	40
0	(GAPI)	150	0.2	(Ohm-m)	2000	0	PE (barn)	20	Micro Normal		
30	SP (mV)	200	Shallow Resistivity			Correction		0	(Ohm-m)	40	
			0.2	(Ohm-m)	2000	-0.5 (g/cc) 0.5					

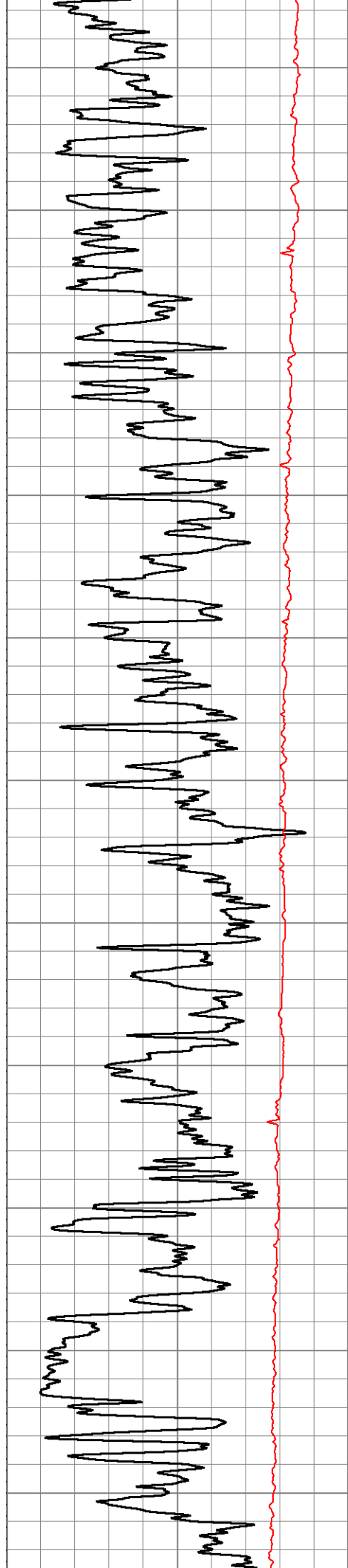


2" BHV DEVIATION LOG

Database File ow2-9043 c&g drilling.db
 Dataset Pathname pass2.6
 Presentation Format st_bhv_micro_6-16
 Dataset Creation Sat Apr 16 16:54:41 2022
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	DEVI	14	Micro Caliper (in)	4	4	Micro Caliper (in)	14
2500	LTEN (lb)	500		0 (deg) 10	14	Bit Size (in)	4	4	Bit Size (in)
				CASEOD 5.5" (in)			CASEOD 5.5" (in)		
				DEVI (deg)	TBHV (ft3)	ABHV (ft3)			





500

600

700

800

900

1000

1.5

2.1

1.9

1.8

2.2

2.3

2.1

2.1

2.1

2.1

2.0

749

729

710

690

670

648

626

606

586

567

549

411

400

389

377

365

351

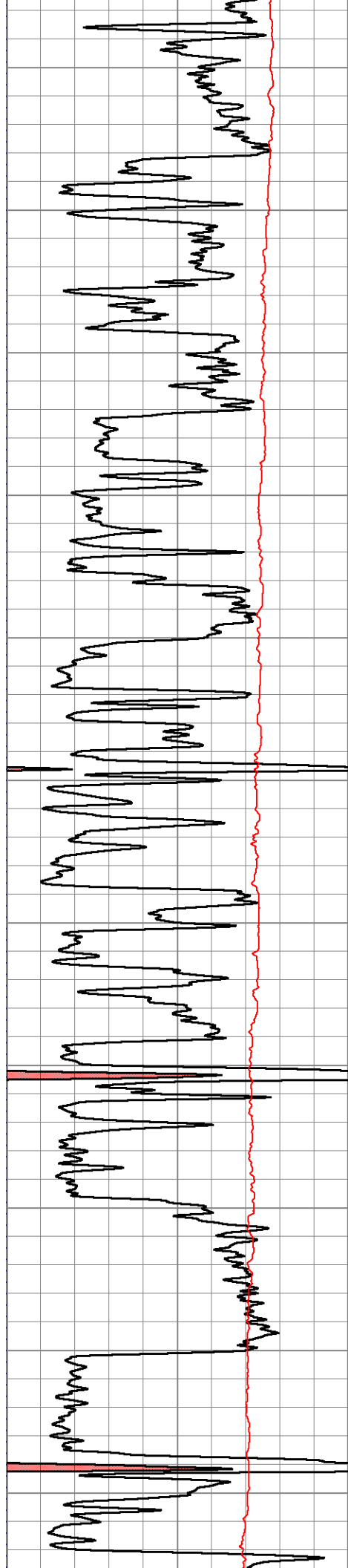
338

326

314

303

294



1100

1200

1300

1400

1500

2.0

531

284

2.1

513

275

1.8

495

265

1.8

477

255

1.9

460

246

1.9

442

237

2.0

424

227

2.1

406

217

2.0

389

208

1.9

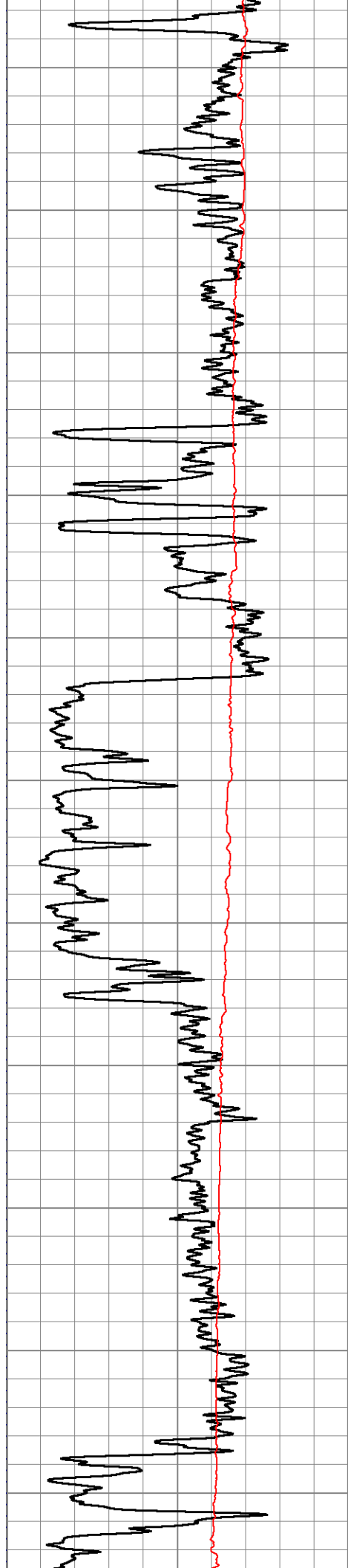
370

197

2.0

353

188



1600

1700

1800

1900

2000

2100

1.9

2.1

2.2

1.9

1.8

1.8

1.8

1.9

2.0

2.4

2.2

335

318

299

279

259

240

223

205

188

170

152

179

170

159

148

136

125

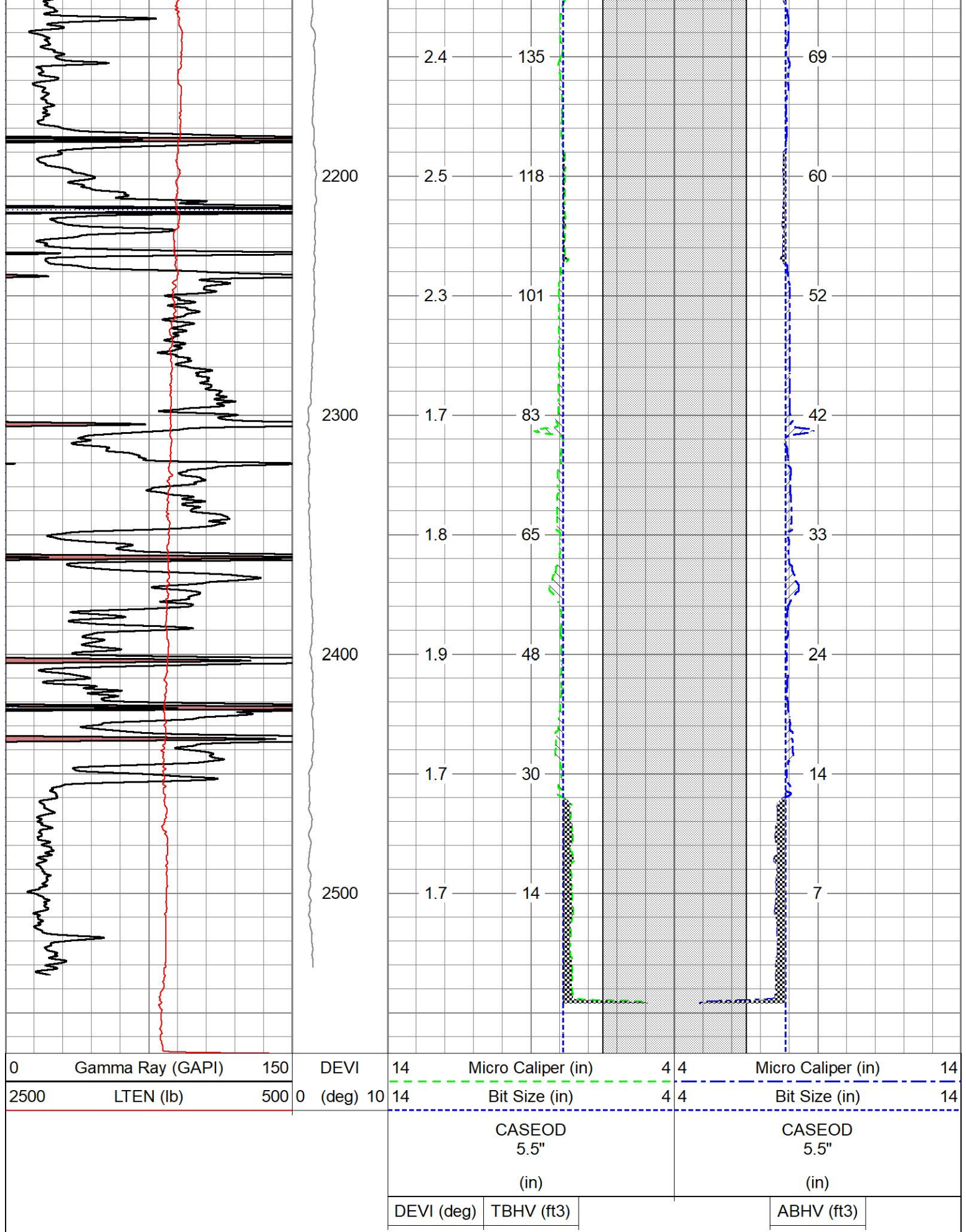
116

107

97

88

79



2" BHV DEVIATION LOG

Calibration Report

Database File ow2-9043 c&g drilling.db
Dataset Pathname pass2.7
Dataset Creation Sat Apr 16 16:54:51 2022

Dual Induction Calibration Report

Serial-Model: 5375-G
Surface Cal Performed: Sat Apr 16 16:07:33 2022
Downhole Cal Performed: Tue Nov 17 10:50:14 2020
After Survey Verification Performed: Tue Nov 17 10:50:14 2020

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.007	0.642	V	-3.000	400.000	mmho/m	634.776	-7.394
Medium	0.010	0.728	V	-1.000	500.000	mmho/m	697.055	-7.752
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.642	V	0.000	350.000	mmho/m	550.717	-3.768
Medium	0.010	0.729	V	0.000	550.000	mmho/m	764.510	-7.354

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-2.869	354.028	mmho/m	-0.044	350.323	mmho/m	0.982	2.773
Medium	-3.741	414.629	mmho/m	-0.037	400.340	mmho/m	0.957	3.543
LL3		9.500	V		2000.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-9.500	V		5000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-2.869	354.028	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-3.741	414.629	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		2.000	Ohm-m		
		0.000	Ohm-m		500.000	Ohm-m		
		0.000	mmho-m		1.000	mmho-m		

Microlog Calibration Report

Serial-Model: 01-Osage
Performed: Sat Mar 12 10:36:52 2022

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0000	0.1000	V	0.0000	10.0000	Ohm-m	100.0000	0.0000
Inverse	0.0000	0.1000	V	0.0000	10.0000	Ohm-m	100.0000	0.0000
Caliper	0.3482	9.1366	V	5.5000	20.5000	in	1.7068	4.9057

Inclinometer Calibration Report

Performed: Thu Oct 8 13:57:38 2020

Low Read High Read Low Ref High Ref

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

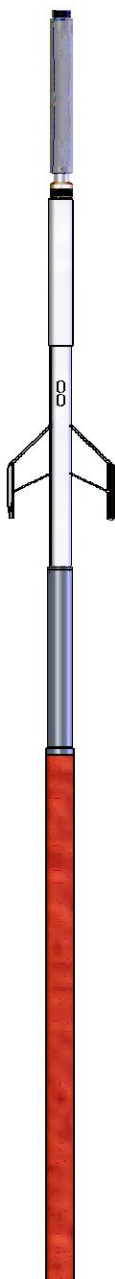
Gamma Ray Calibration Report

Serial Number: Refurb01
 Tool Model: OSAGE_01
 Performed: Mon Jan 18 09:02:16 2021

 Calibrator Value: 150.0 GAPI

 Background Reading: 125.0 cps
 Calibrator Reading: 875.0 cps

 Sensitivity: 0.2000 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
ACCY	31.04		ADMYR_TELEMETRY-OSAGE_01 (Refurb01) Admyr Telemetry With Gr, Deviation, ADC board and Pulses Board in it.	3.69	3.25	53.00
ACCX	31.04					
GR	29.86					
FRAMES	28.54					
SSTAT	28.54		MICRO_DIG-Osage (01) Digital Microlog	7.21	5.13	137.00
PSTAT	28.54					
ASTAT	28.54					
MI	23.00					
MN	23.00					
MCAL	22.00					
ASTAT2	21.33					
SP	10.92		DIL-G (5375) Gearhart	21.33	4.00	290.00
CILD	10.92					

CILM	7.00				
RLL3	1.65				
TR_Mon	0.00				

Dataset: ow2-9043 c&g drilling.db: field/well/run1/pass2.7

Total length: 32.23 ft

Total weight: 480.00 lb

O.D.: 5.13 in

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)			
ACCY	17.83		ADMYR_TELEMETRY-OSAGE_01 (Refurb01) Admyr Telemetry With Gr, Deviation, ADC board and Pulses Board in it.	3.69	3.25	53.00			
ACCX	17.83								
GR	16.65								
FRAMES	15.33								
SSTAT	15.33								
PSTAT	15.33		NEU-ADDON (ADMYR1) Inline Neutron	5.65	3.38	84.00			
ASTAT	15.33								
NEU	11.66								
DCAL	2.79								
LS_HV	2.63								
LS8	2.63								
LS7	2.63								
LS6	2.63								
LS5	2.63								
NHARD	2.63		ADT1LITH-B (1B)	9.69	4.25	238.00			
LSD	2.63								
LS2	2.63								
NLITH	2.63								
LSTAT	2.17								
LSV	2.17								
SS_HV	2.08		Dataset: ow2-9043 c&g drilling.db: field/well/run1/pass3.5 Total length: 19.02 ft Total weight: 375.00 lb O.D.: 4.25 in						
SS8	2.08								
SS7	2.08								
SS6	2.08								
SS5	2.08								
SS4	2.08								
SSD	2.08								
SS2	2.08								
SS1	2.08								
SSV	1.96								
TR_Mon	0.00								