




Thru Casing

[illegible]

Sensor	Offset (m)	Schematic	Description	Len (m)	OD (mm)	Wt (kg)
UHT UBRM	4.07 4.07		CableHeadSub QuadV2 to GOI Cable Head Sub	0.24	43.00	1.00
GR	3.78					
FGR	3.26					
CCL	2.41		QUADV2_TEL13 Quad V2 Telemetry Combo A	1.97	43.00	20.00
LNG SNG SNN LNN						
BHT BBRM	0.00		QUADV2_MN020 Quad V2 MN Section	2.13	43.00	20.00
			QUADV2_BHT0 Sensors For Processing	0.00	43.00	

Dataset: Quad
Total Length: 4.34 m
Total Weight: 41.00 kg
O.D. 43.00 mm



Low Compaction

Quad Neutron

Thru Casing

MD Main Pass

AMBER ENTICE 9-15-26-26

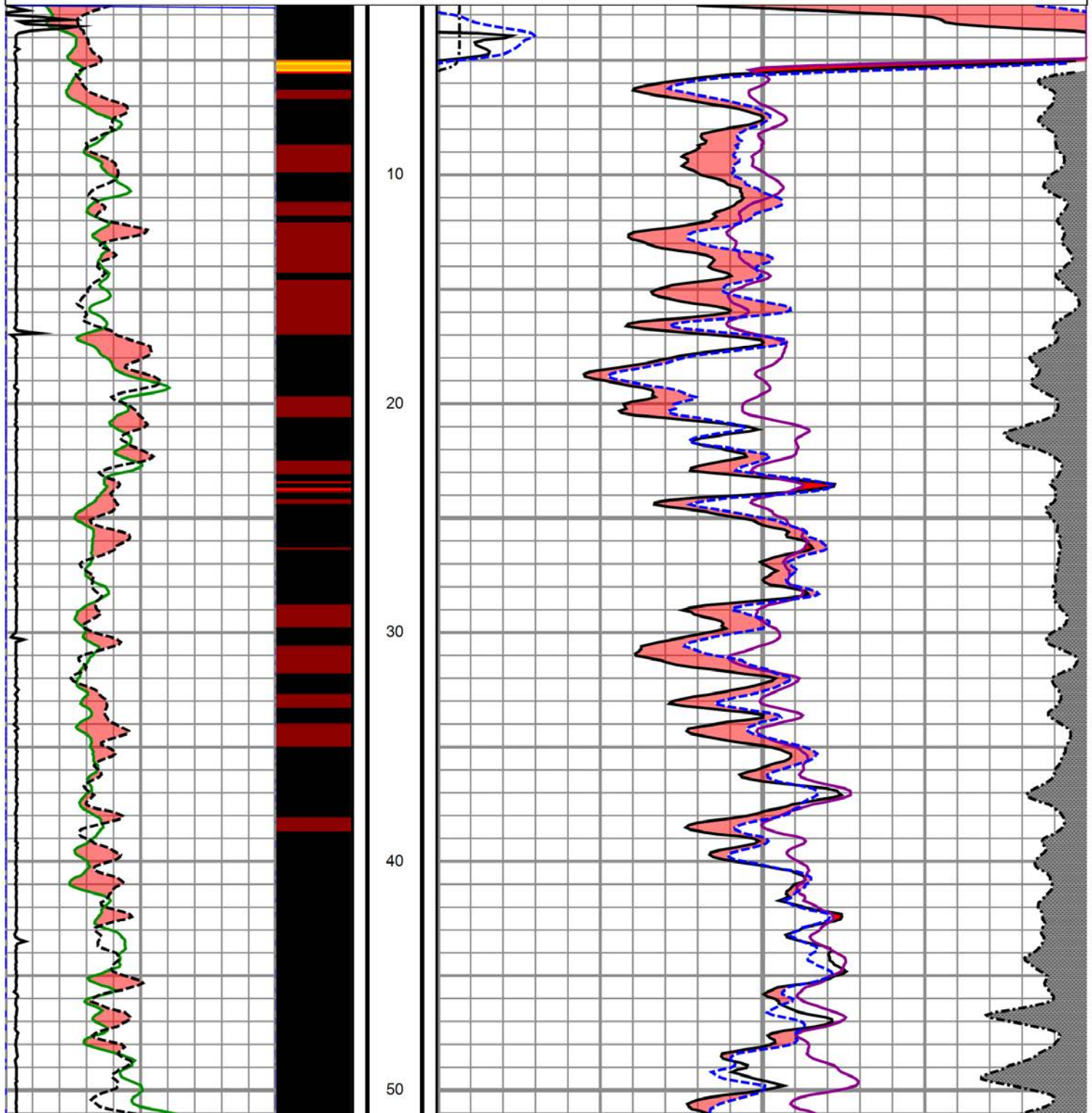
Measured Depth

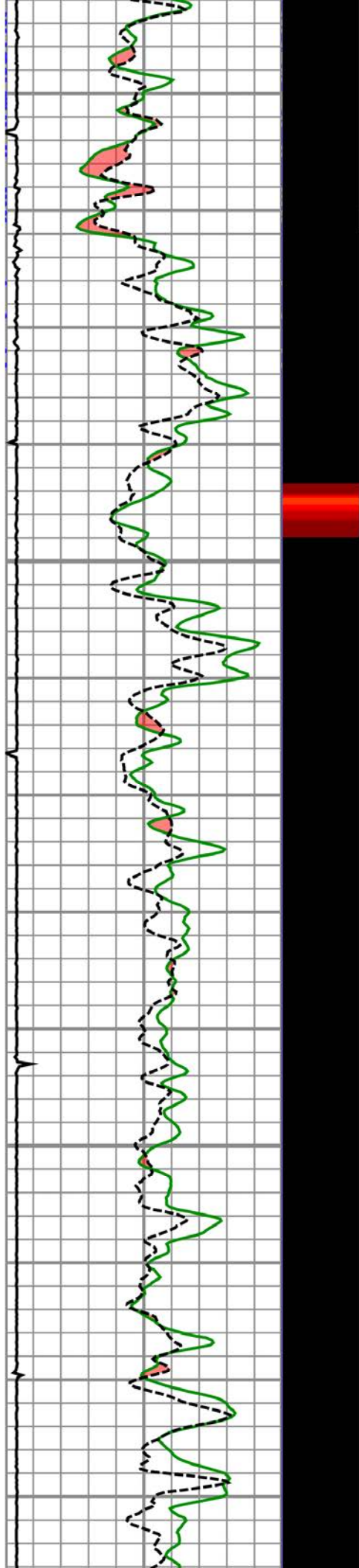
2.6 - 814.0 m

Database File: X:\DATA\JOB DATA\2015\09_SEP\150903-VB2 EMBER 9-15-26-26\150903-VB2 PROC AK
Presentation Format: QN GAS.prs
Dataset Printed: 2015-09-04 12:16:38 AM
Depth in Meters scaled 1:240

Primary Pass: pass2.las
Processing: QN-M
Charted by: akalistratov@roke.ca
v4.11.7

0	Gamma Ray [GR]	150	SGAS	DEPTH	60	Total Porosity [QTP]	0
-15	Filtered Gamma Ray [FGR]	98			60	Relative Density Porosity [DPORn]	0
0	UBRM	45000			60	Quad Clay [QC]	0
0	Casing Collar Locator [CCL]	80000			60	Dual Neutron [DDN]	0
	High Perm					Light Bulk Density	
						Light Hydrocarbon	





60

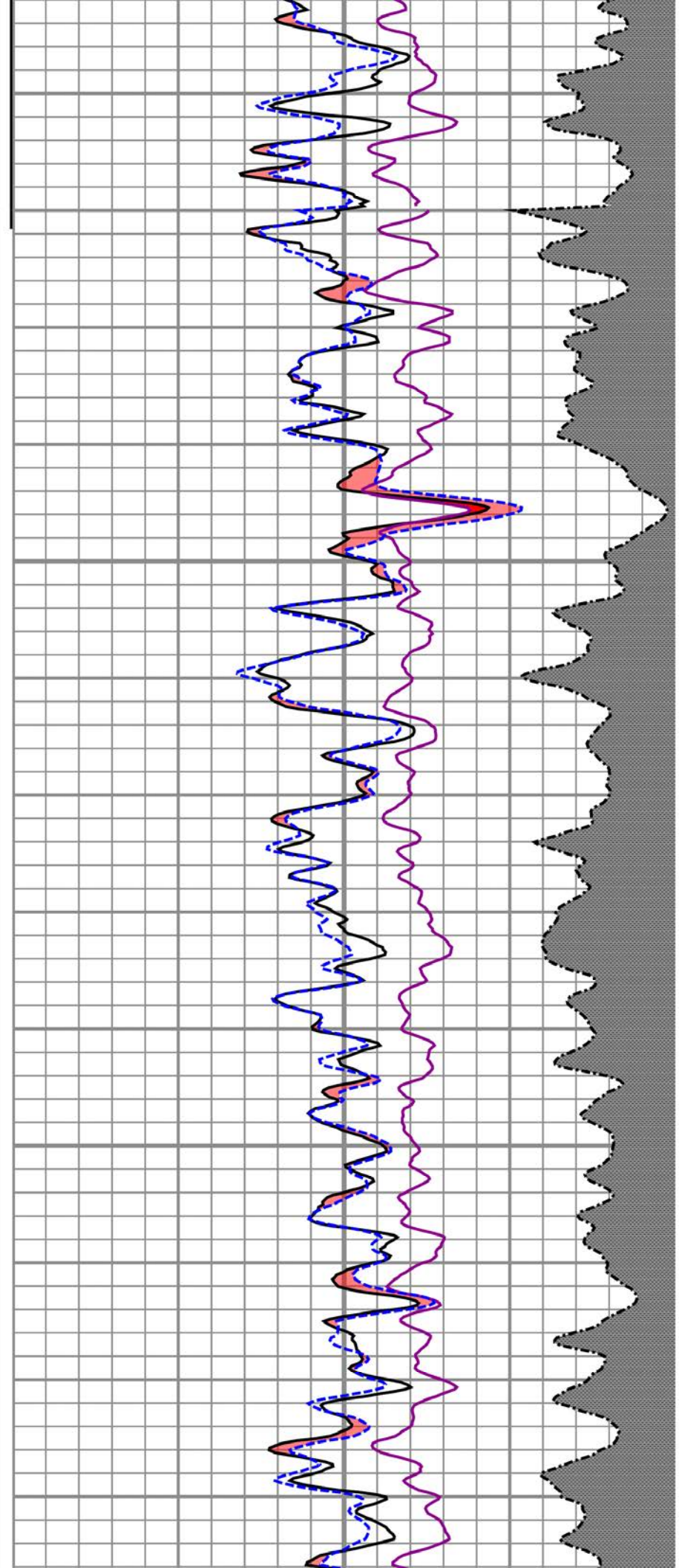
70

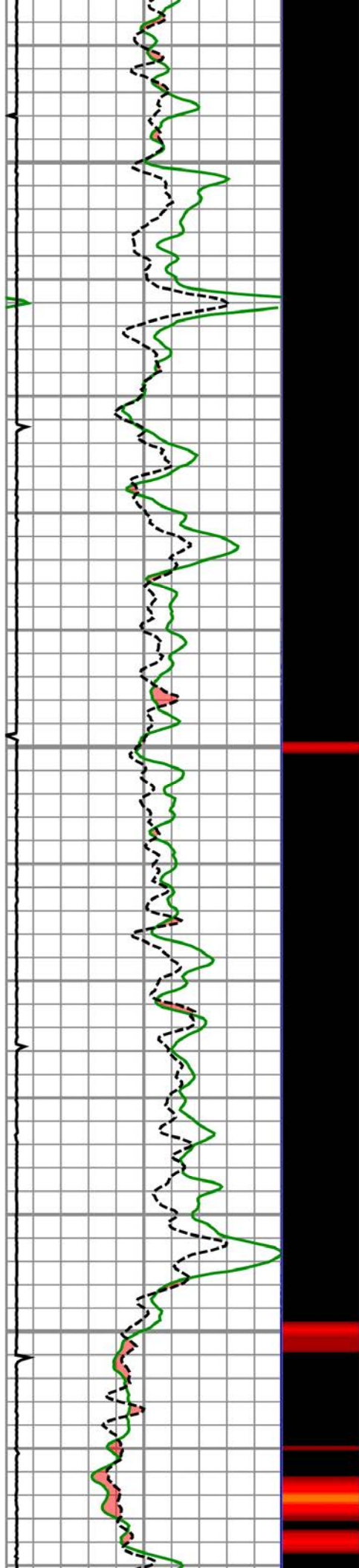
80

90

100

110





120

130

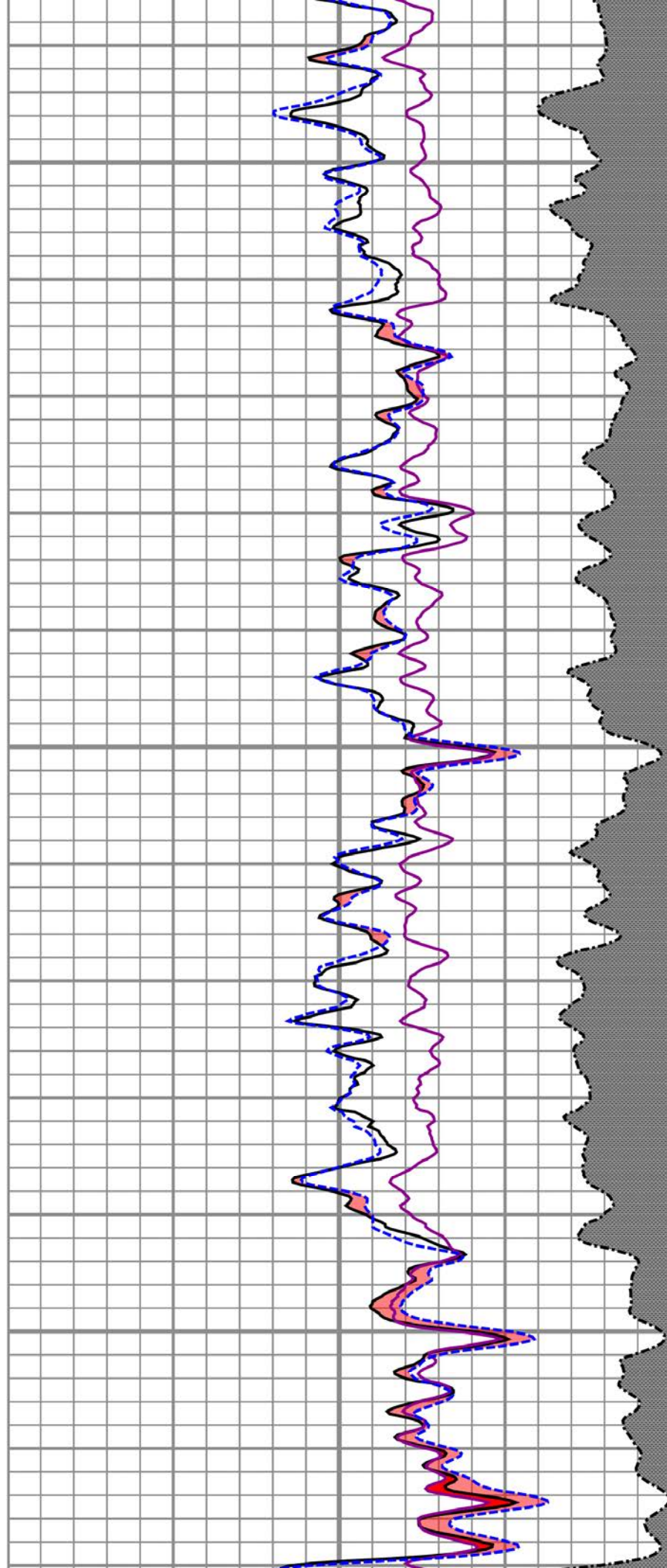
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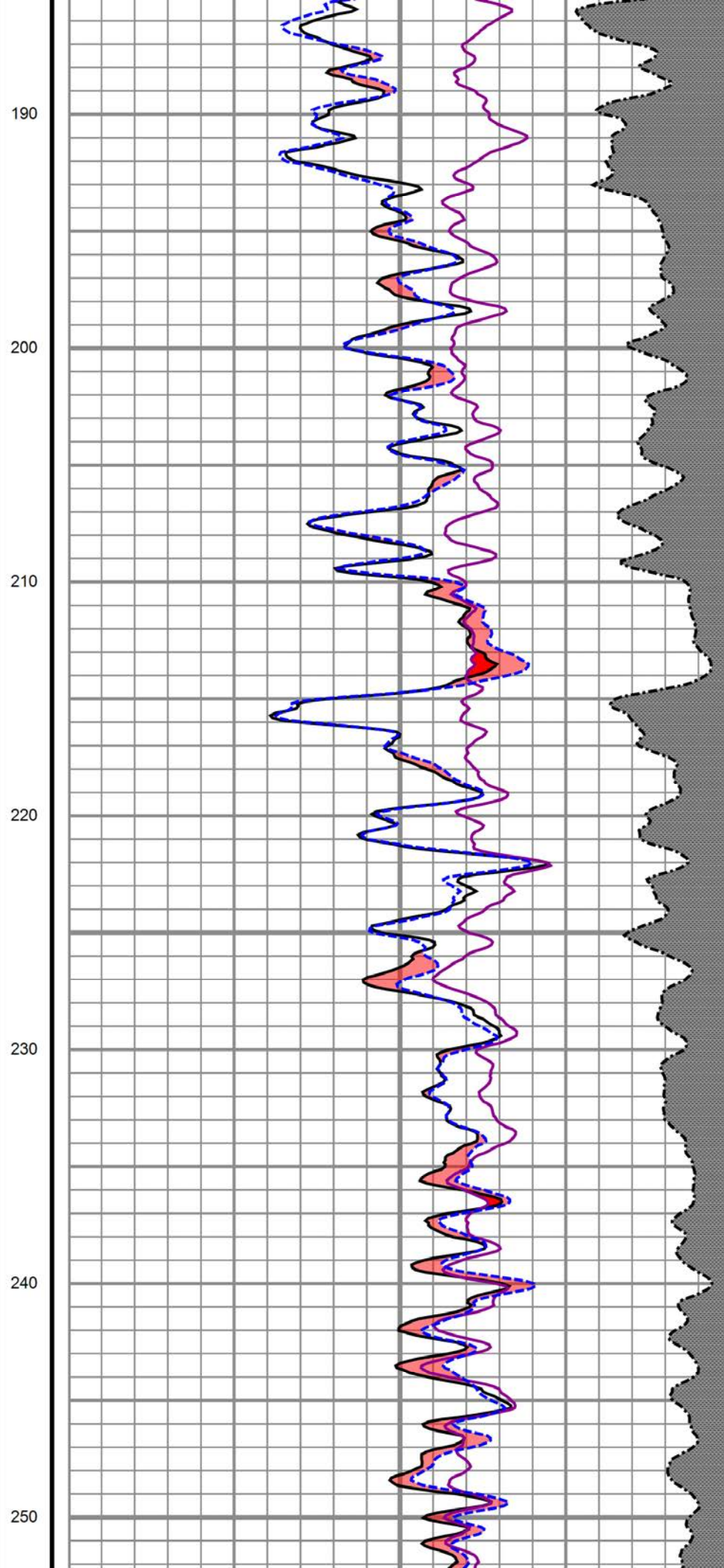
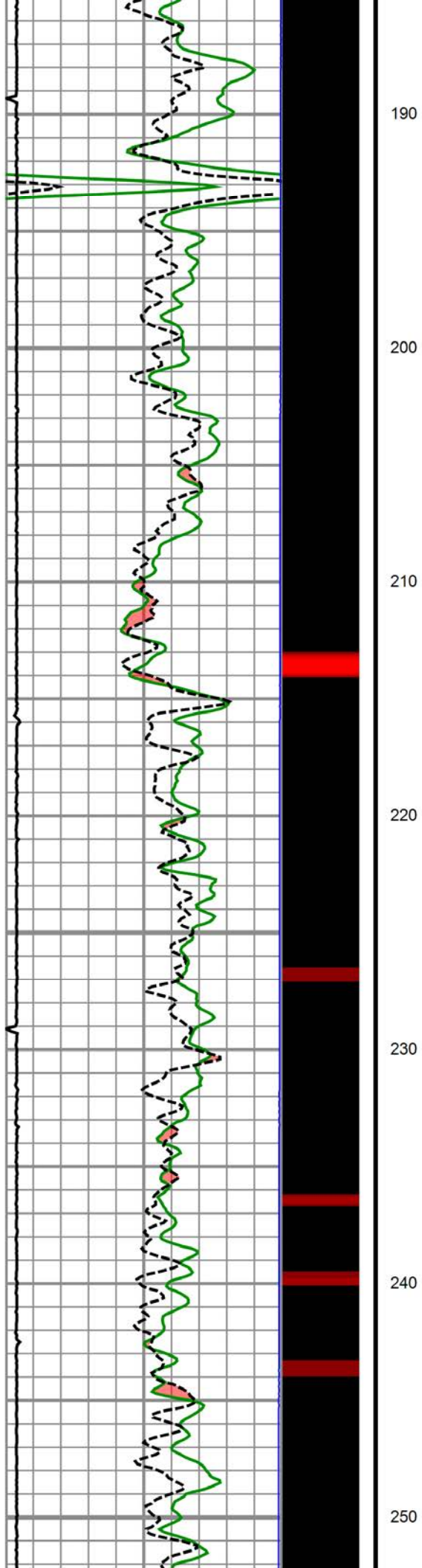
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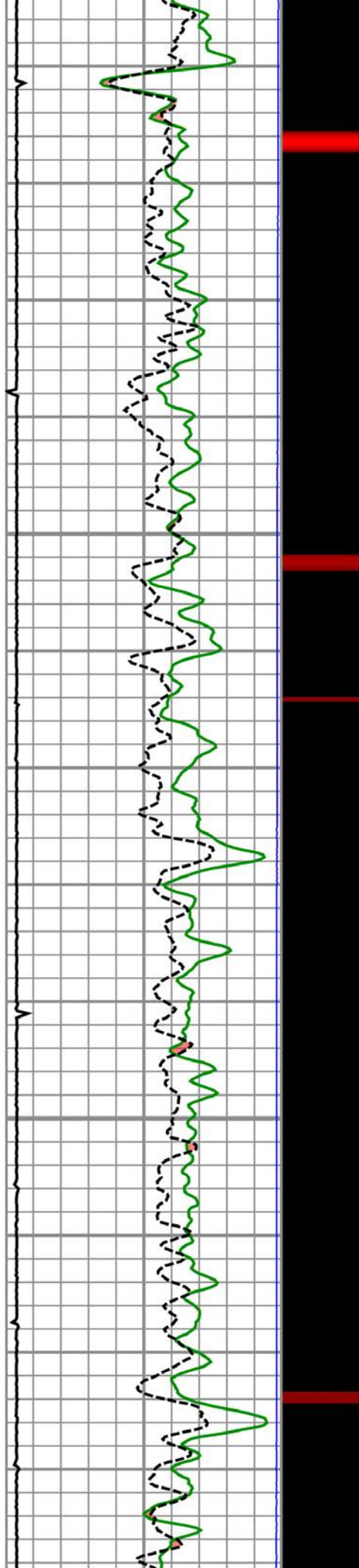
160

170

180







260

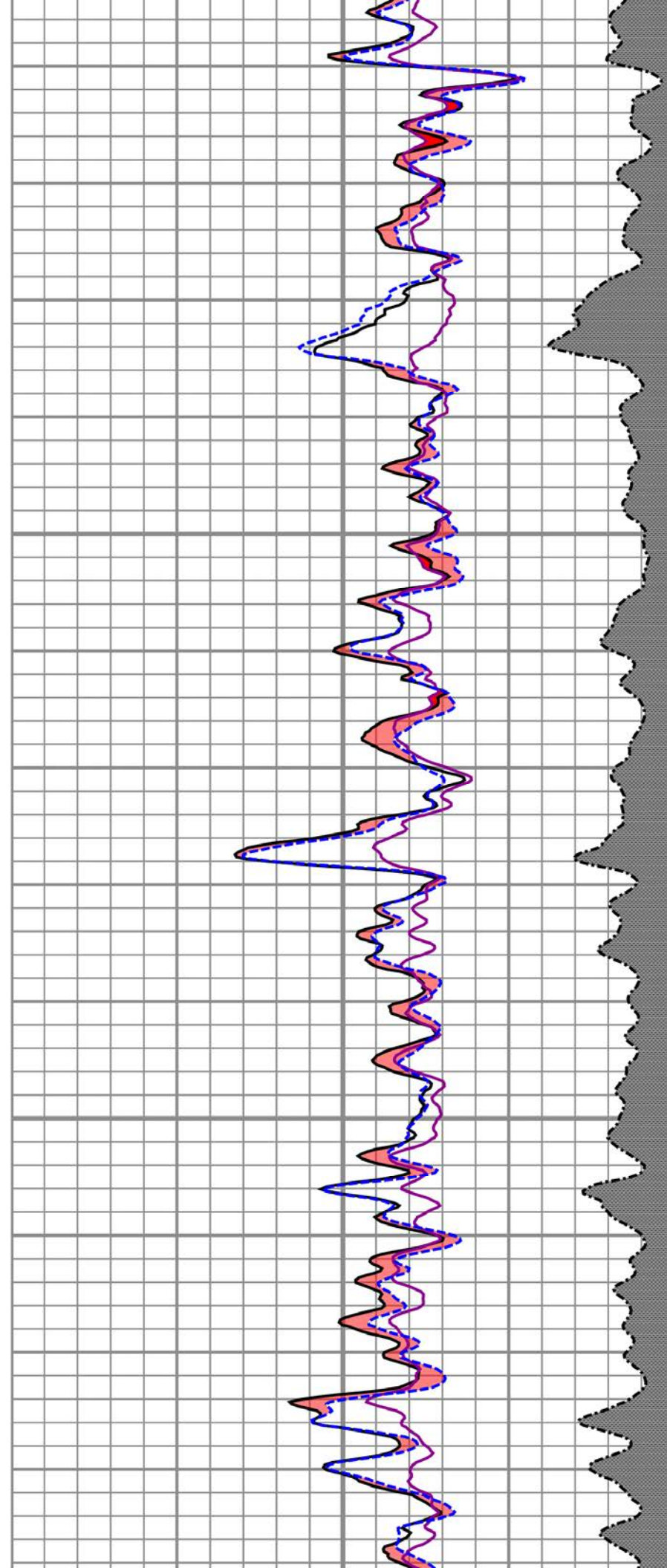
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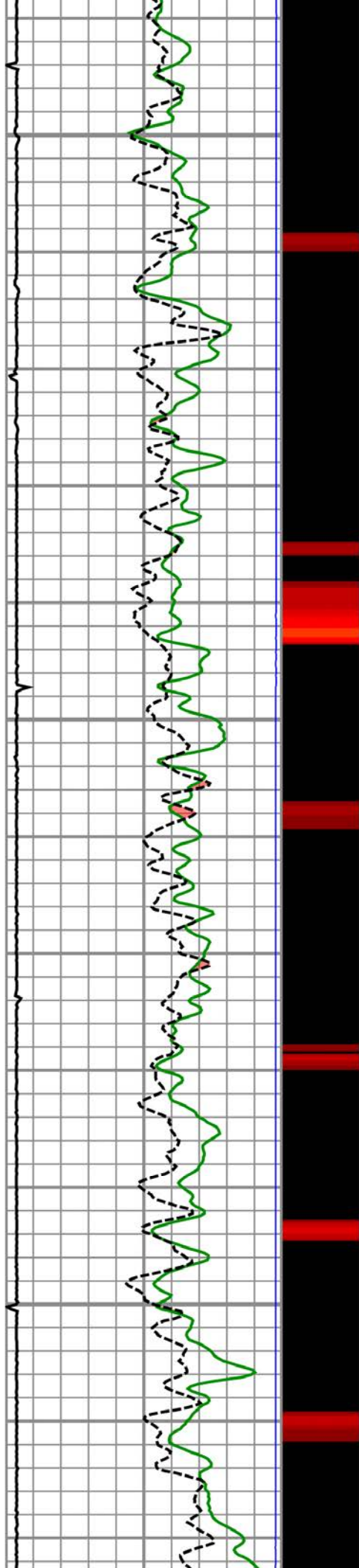
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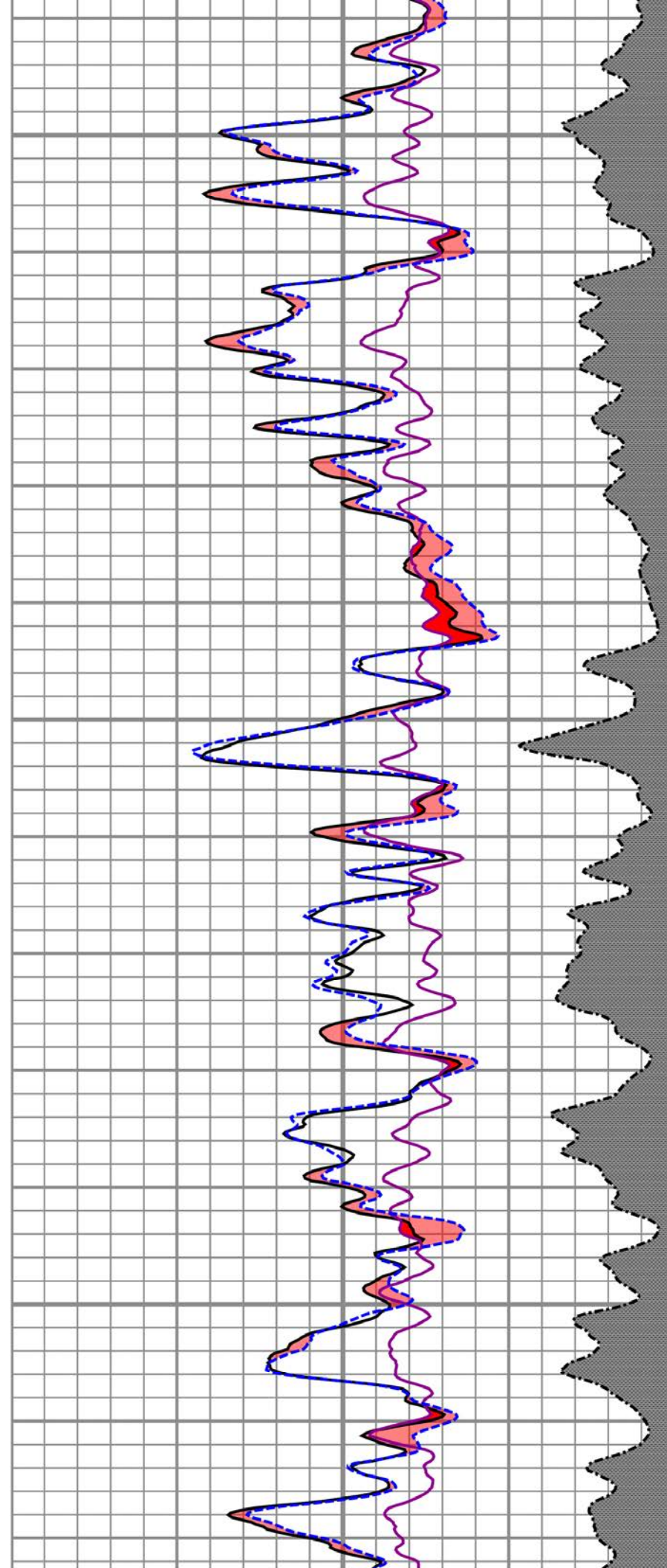
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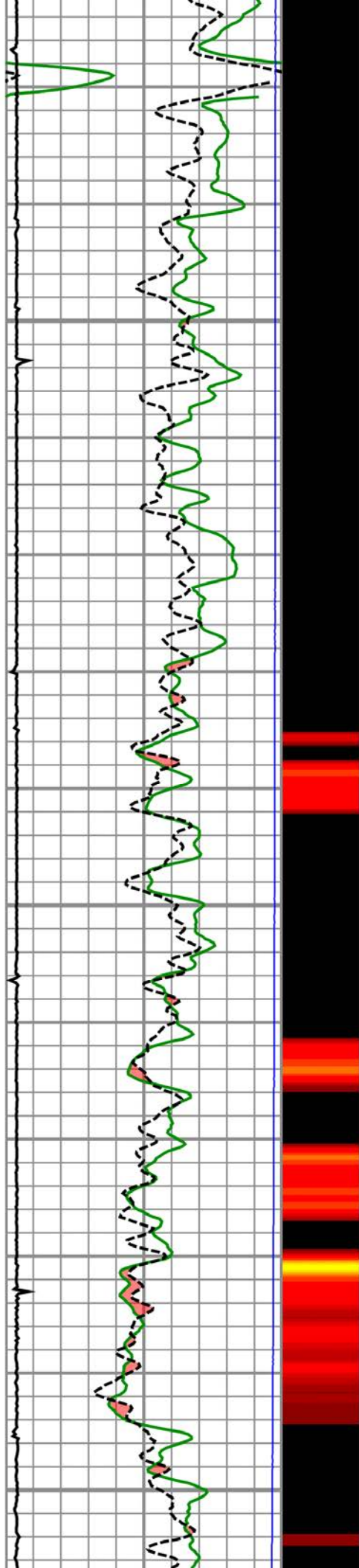
310





320
330
340
350
360
370
380





390

400

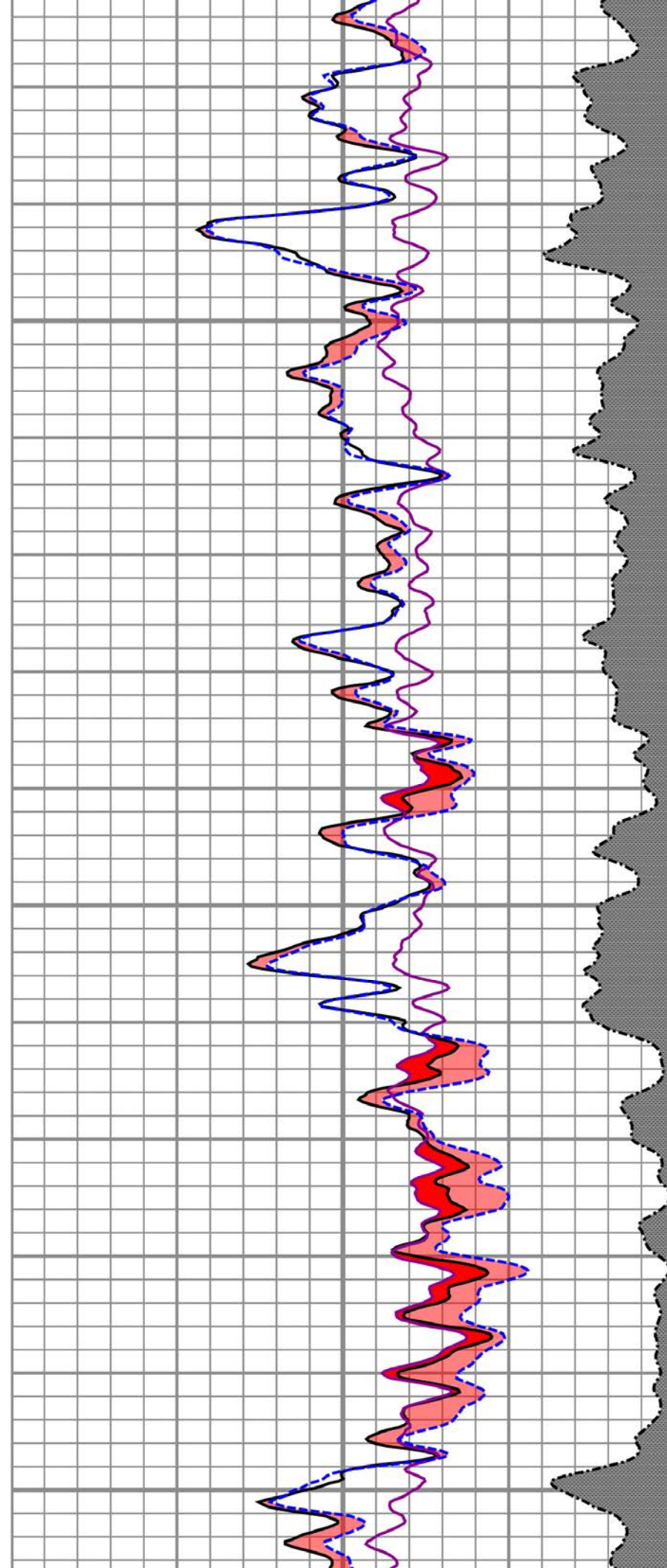
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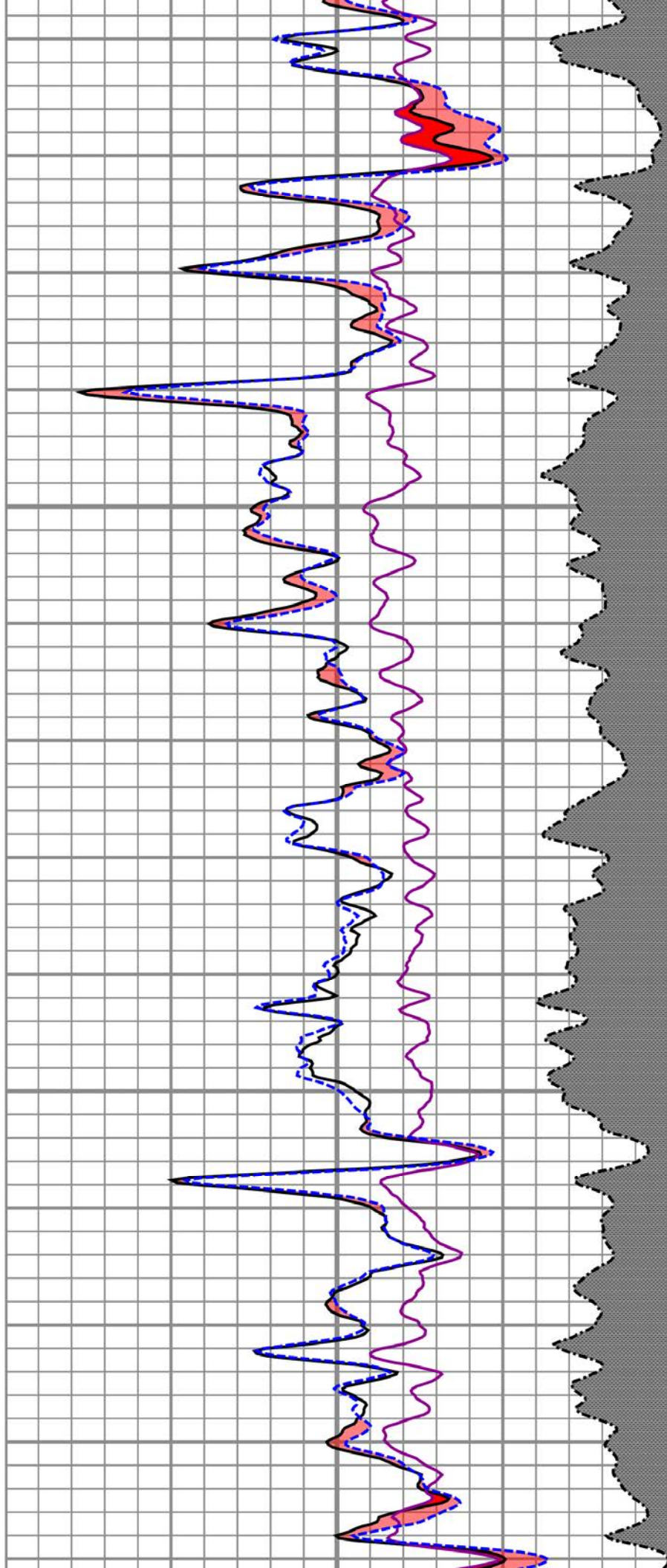
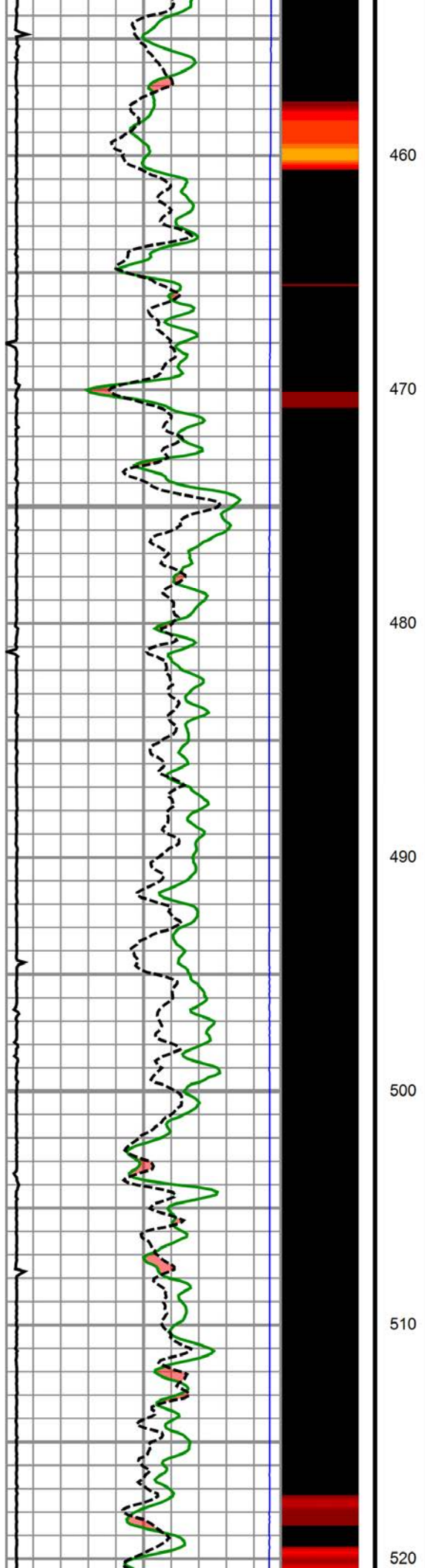
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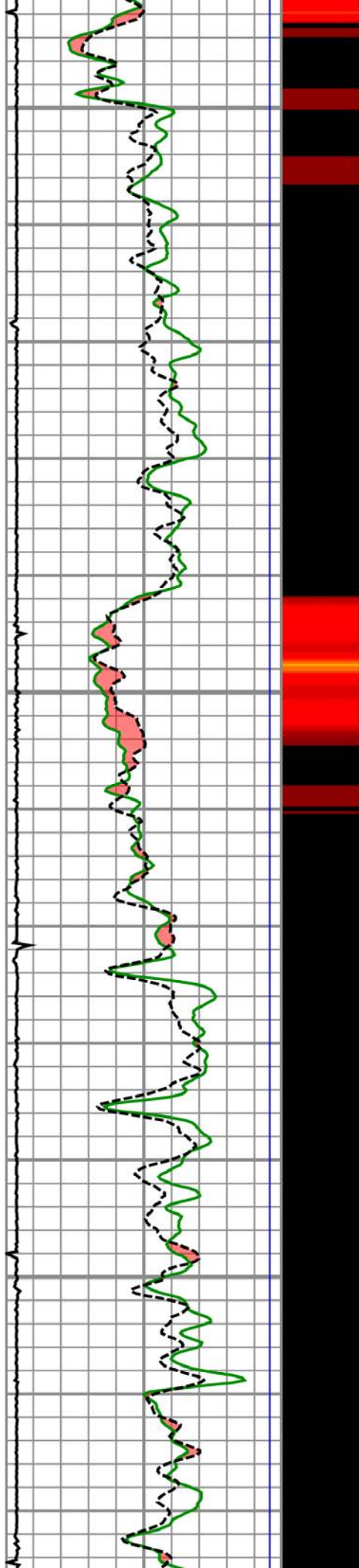
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440

450







530

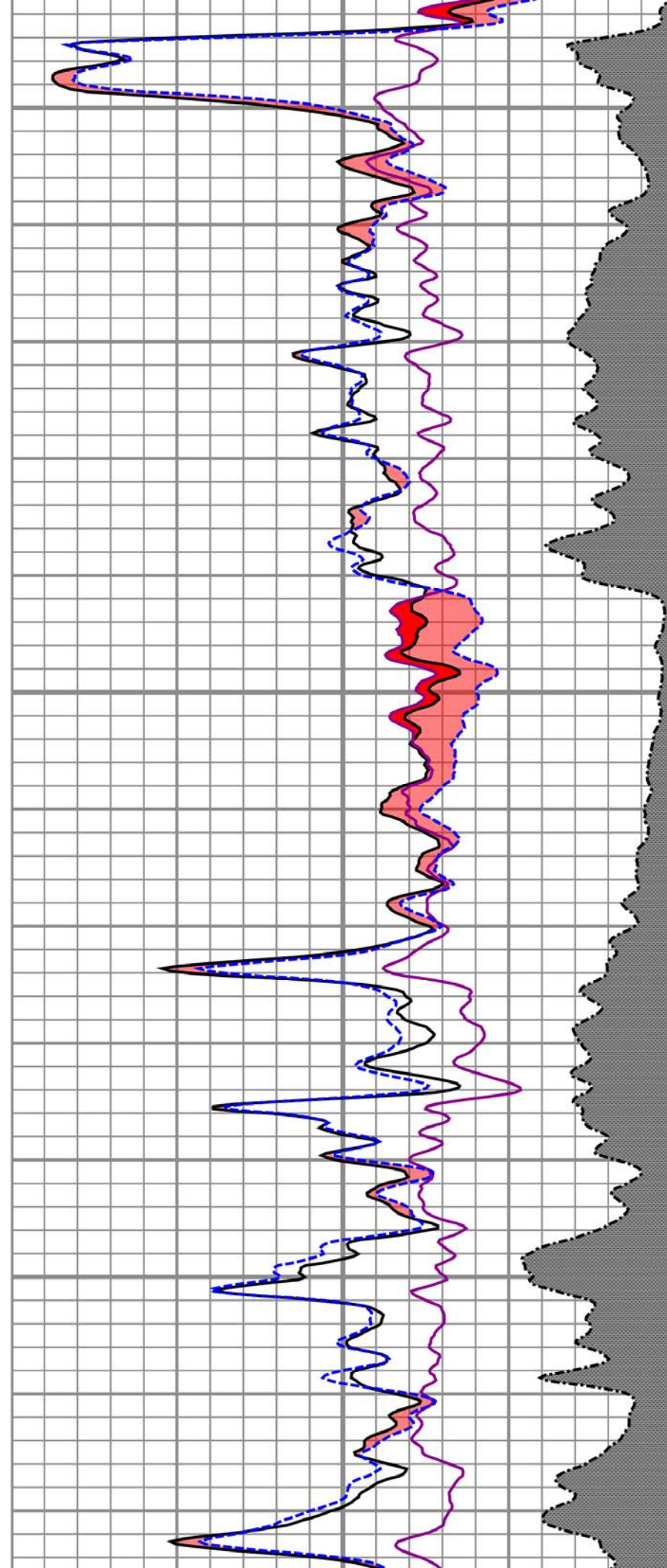
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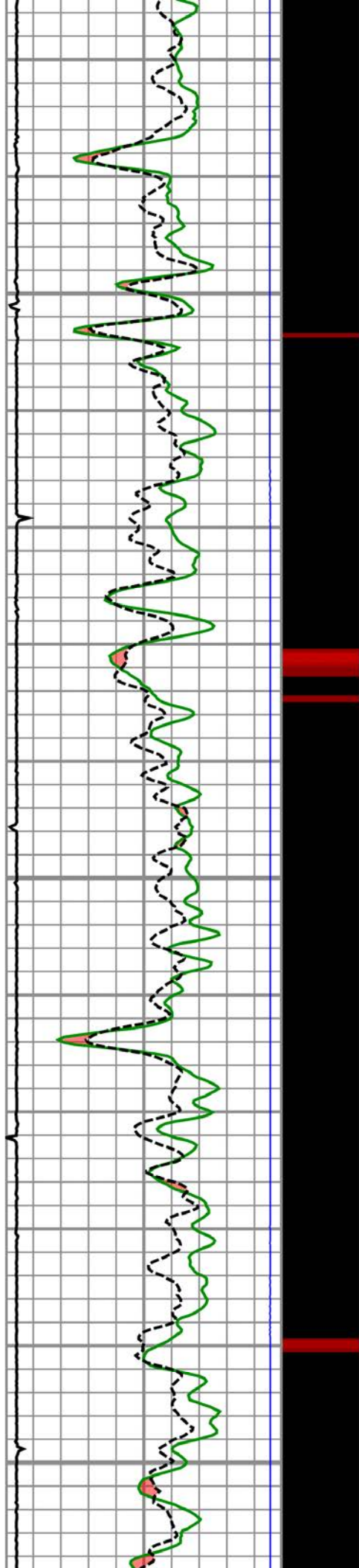
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560

570

580





590

600

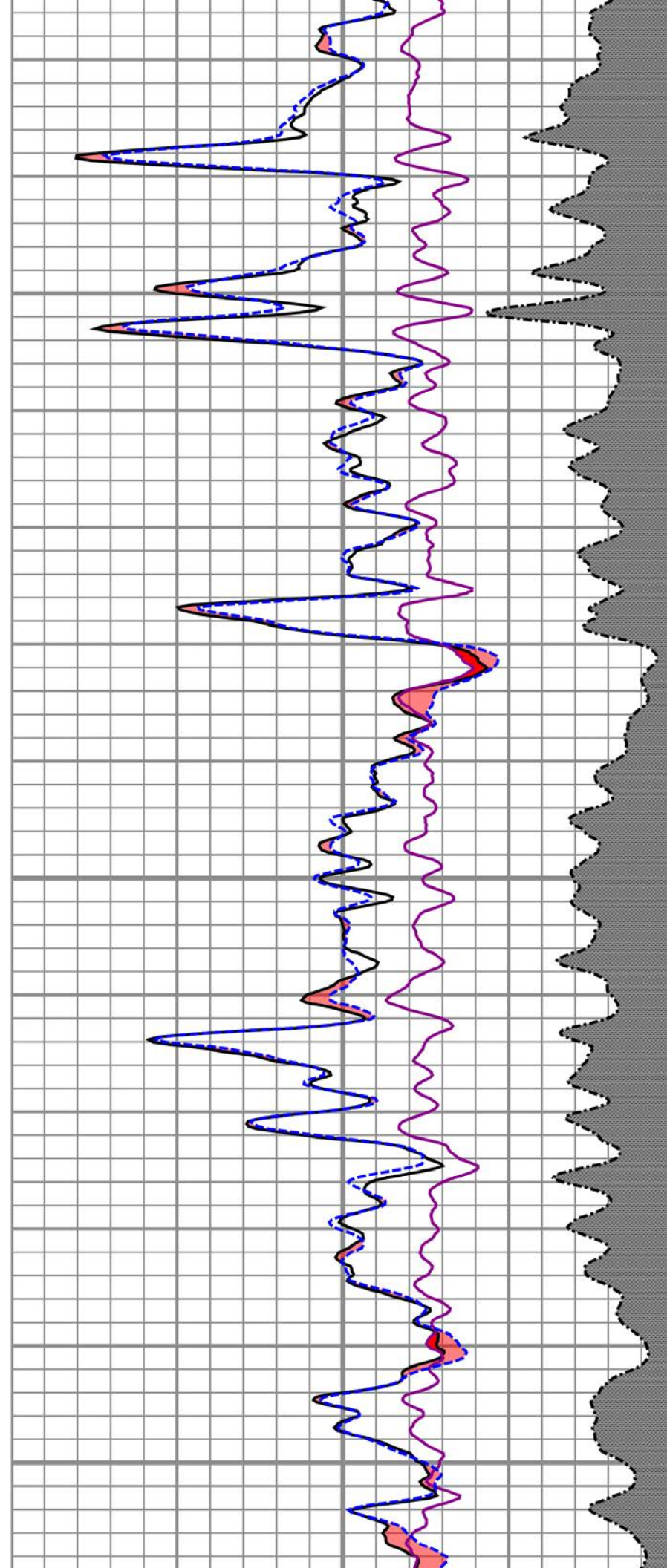
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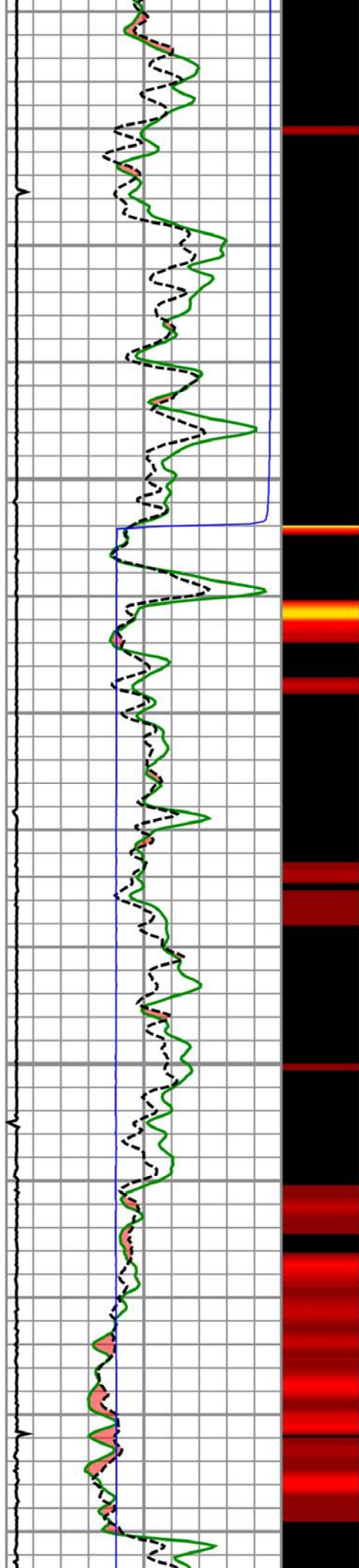
620

630

640

650





660

670

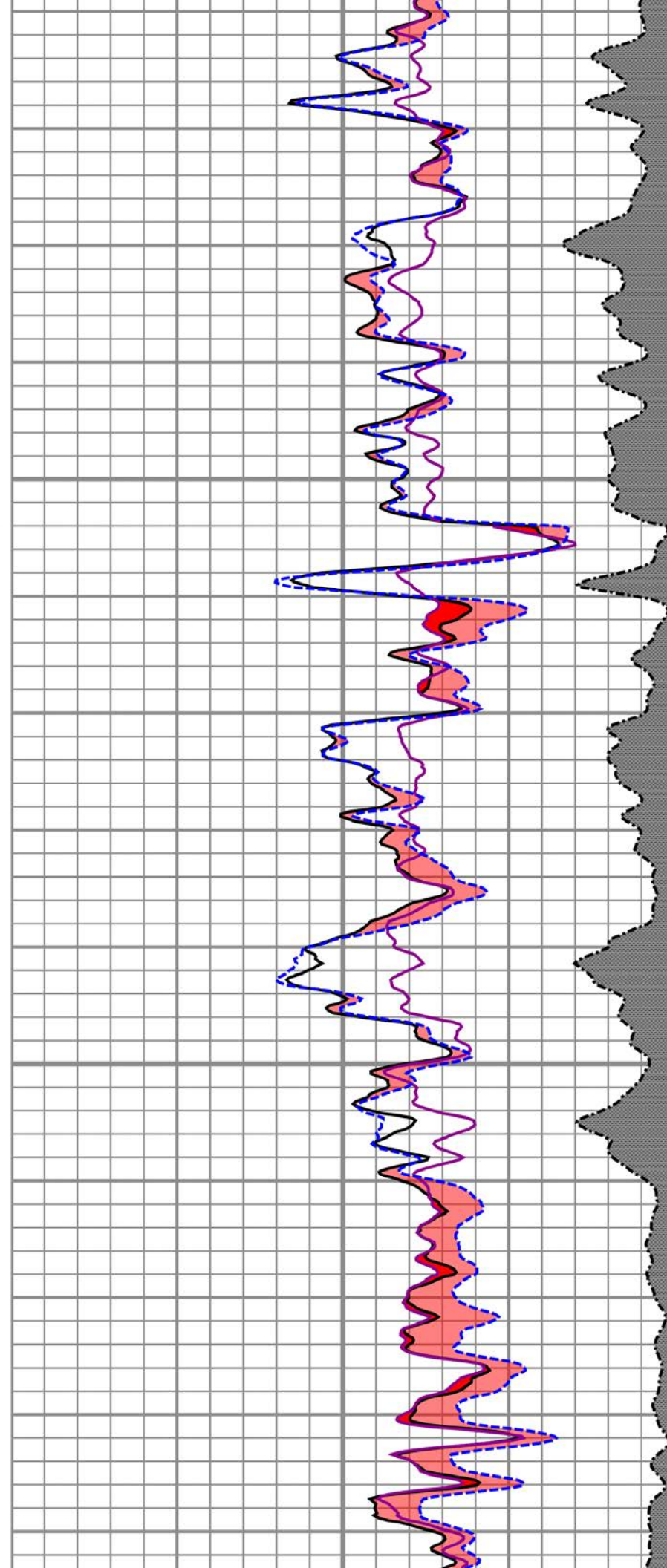
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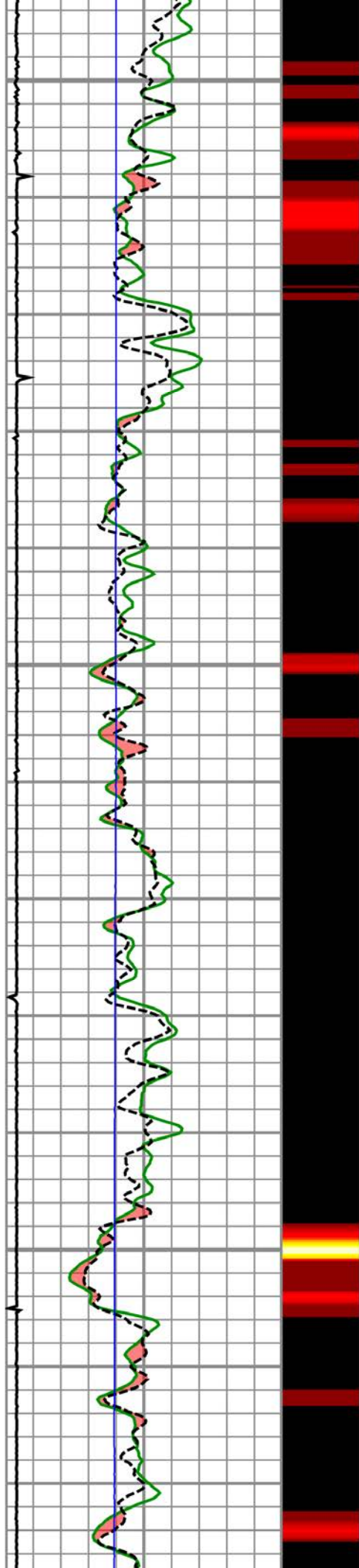
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700

710

720





730

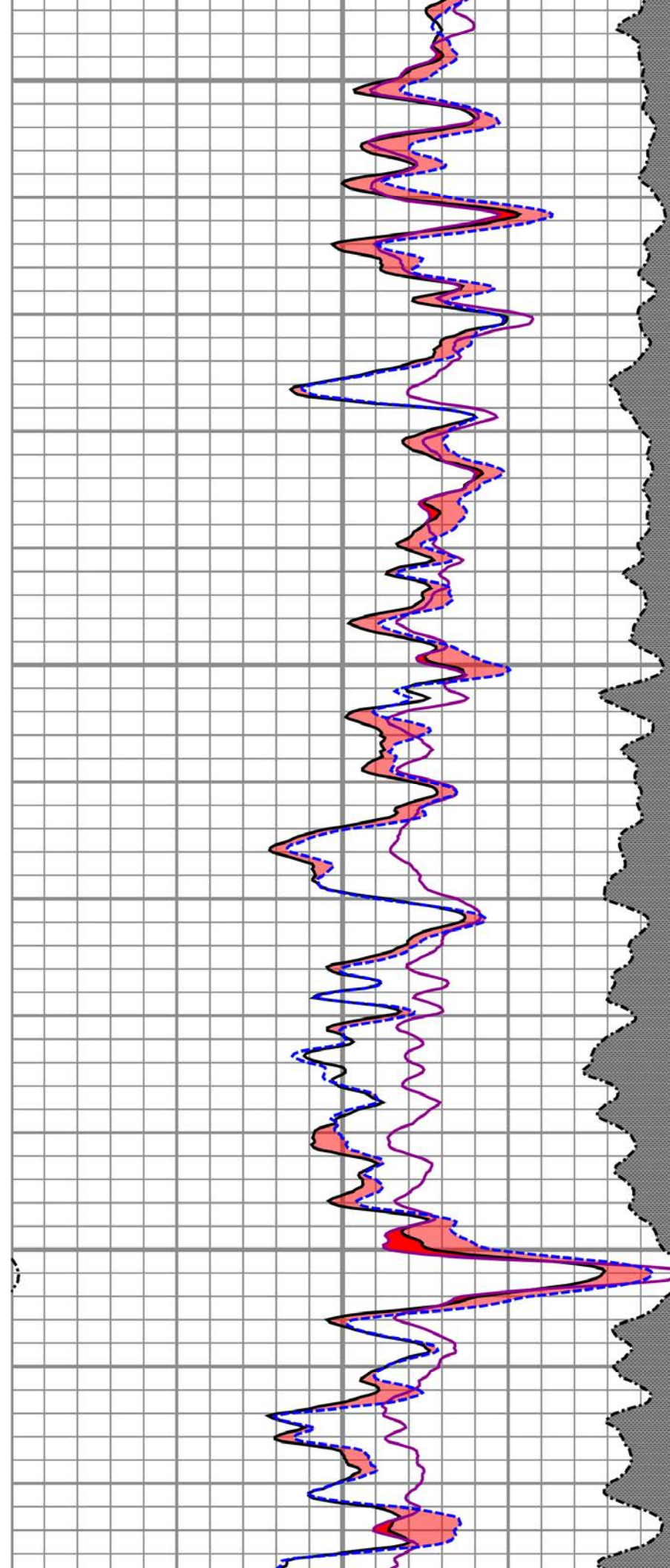
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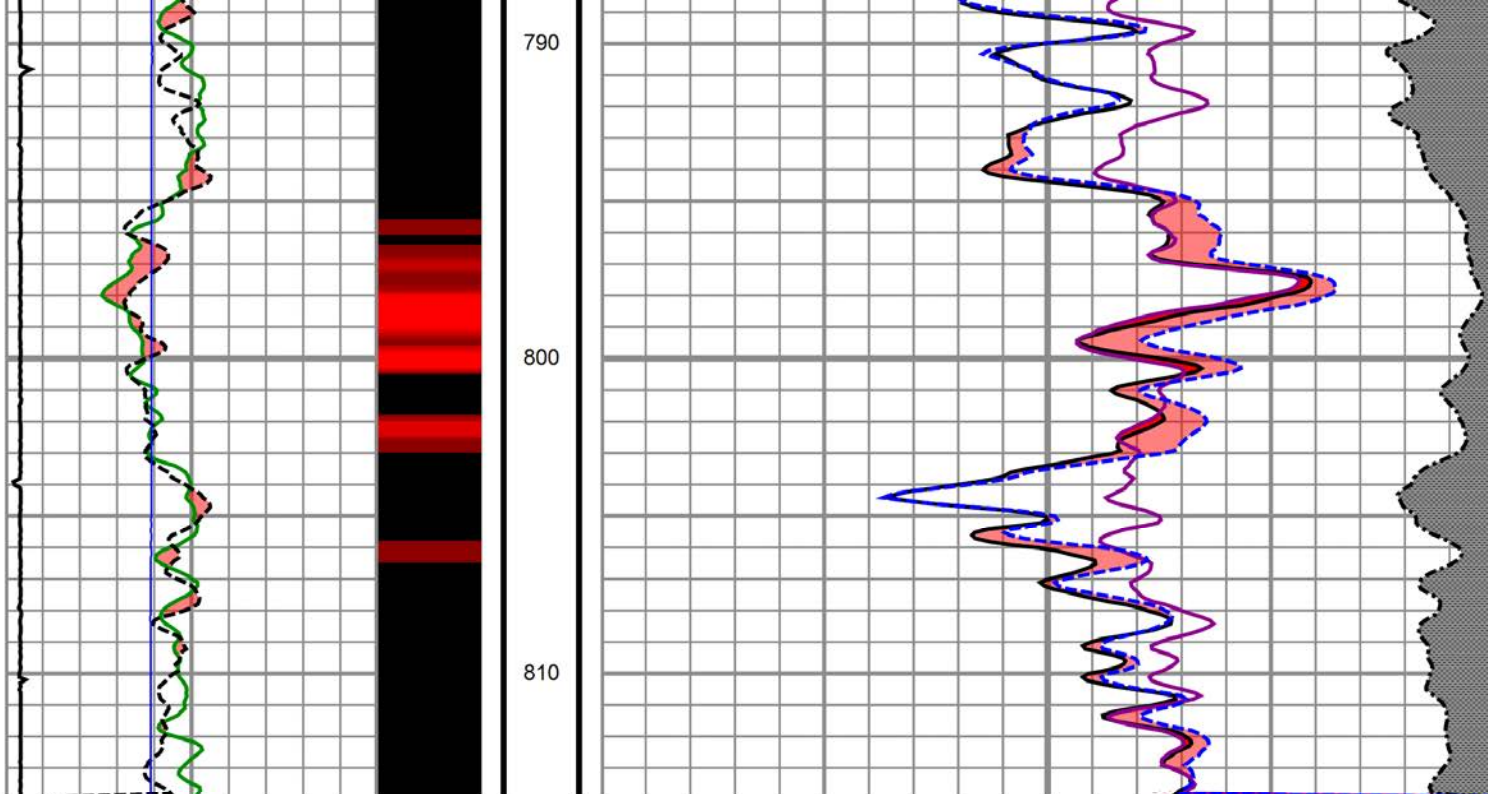
750

760

770

780





Gamma Ray [GR]	150	SGAS	DEPTH	60	Total Porosity [QTP]	0
Filtered Gamma Ray [FGR]	98			60	Relative Density Porosity [DPORn]	0
UBRM	45000			60	Quad Clay [QC]	0
Casing Collar Locator [CCL]	80000			60	Dual Neutron [DDN]	0
High Perm					Light Bulk Density	
					Light Hydrocarbon	

Low Compaction

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MD Main Pass

AMBER ENTICE 9-15-26-26

Measured Depth

Calibrations															
Curve	Gain	Shift	Filter	Offset	Curve	Gain	Shift	Filter	Offset	Curve	Gain	Min	Max	Filter	Offset
GR	0.909	0	1	3.81	FGR	1.7	0	1	3.28	LNG	0.97	1.012	1.096	1.5	1.43
UBRM	1.032868	0	0	4.23	UHT	0.004052	-160.49	1	4.23	LNN	1.05	1.006	1.077	1.2	0.88
CCL	1	0	0	2.42						SNG	0.9	0.942	0.991	1.8	1.31
										SNN	0.97	0.938	1.115	1.5	0.99

Zone 1																			
Top: 2.61 m		Bottom: 60.00 m		low compaction		nuclear caliper gain:1		water:30 kppm		oil:15 API		f-factor:20		ce gain:0		clay tie:58			
Curve	A	B		Gain	Shift	Curve	WT	Curve	WT	Curve	WT	Cutoff	Min	Max		Min	Max		
QTP	65	-6		1	0	DGR	0					10	0	65					
QL	30.25	-35.5		1.1	-8	GR	0					20	0	60					
DDN	2.16	-20.9		0.9	-2	DDN	25					4	0	60					
QC	0.0012	-2		0.3	-2	QC	0					2	0	100					
SNNp	-134	56		-134	56	PROP	0					0	0	60					
LNNp	-15	39.5392		-15	39.53924	CE	0					3	0	60					
SNGp	-129	89.6952		-129	89.69516	COAL	1					42	0	60					
LNGp	-22	55.306		-22	55.30599	calcite	1					15	0	60					
FGR	1	0		1	0	CEp	75					4	0	100					
CEp	1	0		2.2	25														
SNNpost	1	0		1	0														
SNGpost	1	0		1	0														
CNL	1	0		1	3														
IntCounts	1	0		1	0														
Saturation	QLce	ddn:0		clay:20	boundwater:0			waterfreeoil:0.65	boundoil:0.2			filter:0.3		swak:False					
	coll maxclay:False	coll swqcfp:True		use snnp-lnnp:False	snnp-lnnp:0														
Lithology	shale:6	silt (bliquid):15		sand:0	collector:6			calcite min:-2	calcite max:-7			coal porosity:42		hcoal:65					
	use:qc	lgrshale:65		lgrsand:40	lgrcolcut:1			carbonate:False	dolasmud:False			minclayfe:20		qtpqlfe:20					
	fe100:20	nofe:20																	

Zone 2																			
Top: 60.00 m		Bottom: 677.00 m		low compaction		nuclear caliper gain:1		water:30 kppm		oil:15 API		f-factor:20		ce gain:0		clay tie:342			
Curve	A	B		Gain	Shift	Curve	WT	Curve	WT	Curve	WT	Cutoff	Min	Max		Min	Max		
QTP	65	-2		1	4	DGR	0					10	0	65					
QL	30.25	-23		1.1	4.5	GR	0					20	0	60					
DDN	2.4	-20.5		1	0.5	DDN	25					4	0	60					
QC	0.0024	-1.5		0.6	-1.5	QC	0					2	0	100					

SNNp	-134	56	-134	56	PROP	0	0	0	60
LNNp	-15	37.0715	-15	37.07154	CE	0	3	0	60
SNGp	-129	87.2641	-129	87.26411	COAL	1	42	0	60
LNGp	-21	53.6286	-21	53.6286	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	23					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0	clay:20	boundwater:0	waterfreeoil:0.65	boundoil:0.2	filter:0.3	swak:False	
Lithology	coll maxclay:False shale:6 use:qc fe100:20	coll swqcfp:True silt (bliquid):15 lgrshale:115 nofe:20	use snnp-lnnp:False sand:0 lgrsand:40	snnp-lnnp:0 collector:6 lgrcolcut:1	calcite min:-2 carbonate:False	calcite max:-7 dolasmud:False	coal porosity:42 minclayfe:20	hcoal:65 qtpqlfe:20	
Zone 4									
Top: 677.00 m	Bottom: 814.00 m	low compaction	nuclear caliper gain:1	water:30 kppm	oil:15 API	f-factor:20	ce gain:0	clay tie:766	
Curve	A	B	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	65	-9	1	-3	DGR	0	10	0	65
QL	30.25	-32	1.1	-4.5	GR	0	20	0	60
DDN	2.4	-28.5	1	-7.5	DDN	25	4	0	60
QC	0.0014	-1.5	0.35	-1.5	QC	0	2	0	100
SNNp	-104	56	-104	56	PROP	0	0	0	60
LNNp	-9	40.457	-9	40.45697	CE	0	3	0	60
SNGp	-109	87.2347	-109	87.23473	COAL	1	42	0	60
LNGp	-15	59.2012	-15	59.20124	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	23					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0	clay:20	boundwater:0	waterfreeoil:0.65	boundoil:0.2	filter:0.3	swak:False	
Lithology	coll maxclay:False shale:6 use:qc fe100:20	coll swqcfp:True silt (bliquid):15 lgrshale:85 nofe:20	use snnp-lnnp:False sand:0 lgrsand:30	snnp-lnnp:0 collector:6 lgrcolcut:1	calcite min:-2 carbonate:False	calcite max:-7 dolasmud:False	coal porosity:42 minclayfe:20	hcoal:65 qtpqlfe:20	