

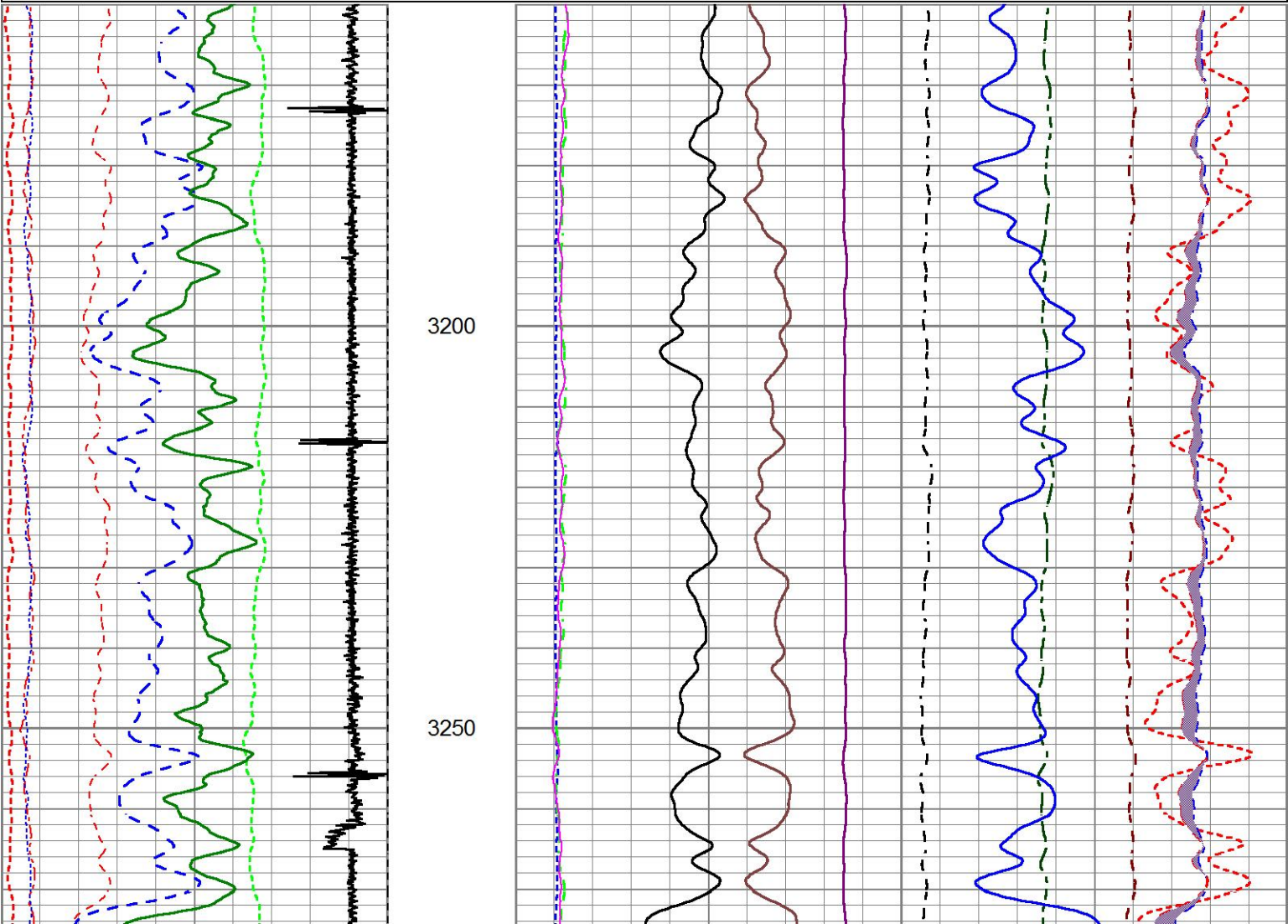
# RESERVOIR MONITORING TOOL - ELITE

**\*\*THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES\*\***

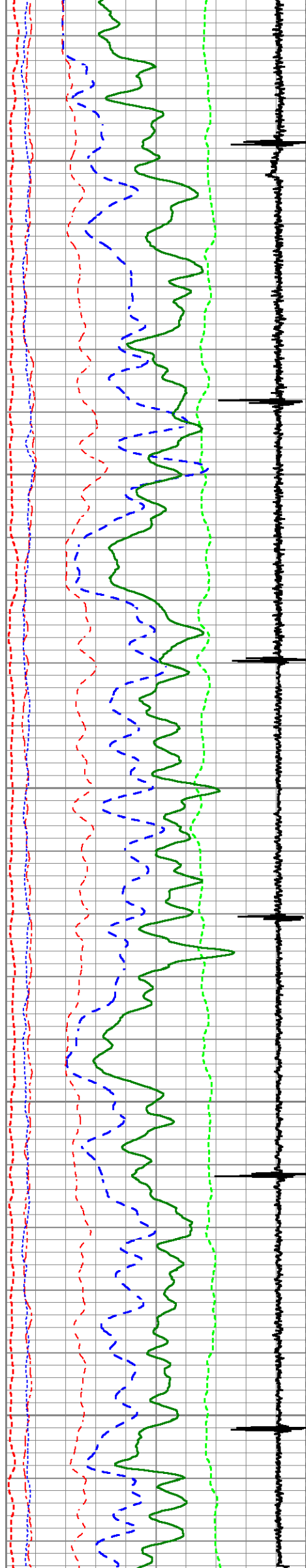
Service Ticket No.	903920761	API No.	05045228440000	PGM Ver	WARRIOR 8.0
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client					
EQUIPMENT DATA					
GAMMA		CBL		RMT	
Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	12159411	Serial No.	11836468	Serial No.	12376244
Model No.	TTTCU-002	Model No.	CBL-M	Model No.	RMTi
Diameter	1.69"	Diameter	2.75"	Diameter	2.75"
LOGGING DATA					
General Data					
Pass	Depths		Well Head	Speed	Logging Run Comments
No	From	To	Pressure	Ft/Min	

ONE	TD	SURFACE CSG	14.7 PSI	20			
	GAMMA		CBL		RMTI		
Pass	Scale		Scale		Scale		Scale
No.	L	R	L	R	L	R	L L
ONE	0	150	0	100	60	0	
DIRECTIONAL INFORMATION							
Maximum Deviation			deg. @		KOP		

MAIN PASS							
HALLIBURTON							
5" = 100'							
Database File		g:\ursa\b&v 33b-07-07-95\33b.db					
Dataset Pathname		MAIN1					
Presentation Format		IRMTE_~1					
Dataset Creation		Mon Mar 27 16:16:44 2017					
Charted by		Depth in Feet scaled 1:240					
200	Near Bore Si (SGBN)	0	TENSION	0	RATIO (RNF)		1
0	OAI	100	0 (lb 1800	60	SGIN		0
10	FAR FIT ERR (SGFF)	40		0	RIN	9	60000 Near Counts (NCAP)
0	GR (GAPI)	150		0	RICF	6	60000 Far Counts (FCAP)
0	NEAR FIT ERR (SGFN)	100		0	H YIELD (YH2)	1	100000 FAR INTEL CT (FSIN)
-3500	CCL	350		0	H YIELD (YH1)	1	10000(NEAR INTEL CT (NSIN)
0	IN FIT ERR (CFTR1) NEAR	1		0.9	PHIT ( )	-0.1	ET INL NEAR (NNII
0	IN FIT ERR CFTR2) FAR	1			INOX2		50000 -1000
					-1500	1500	







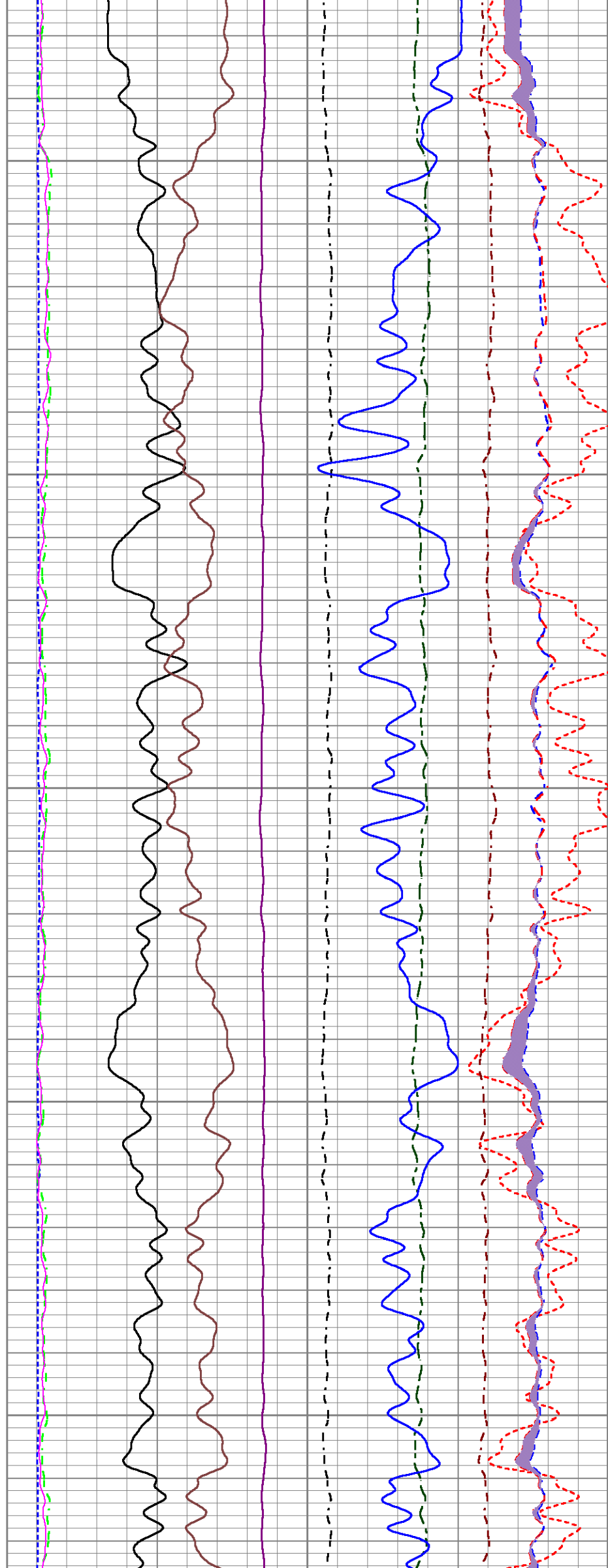
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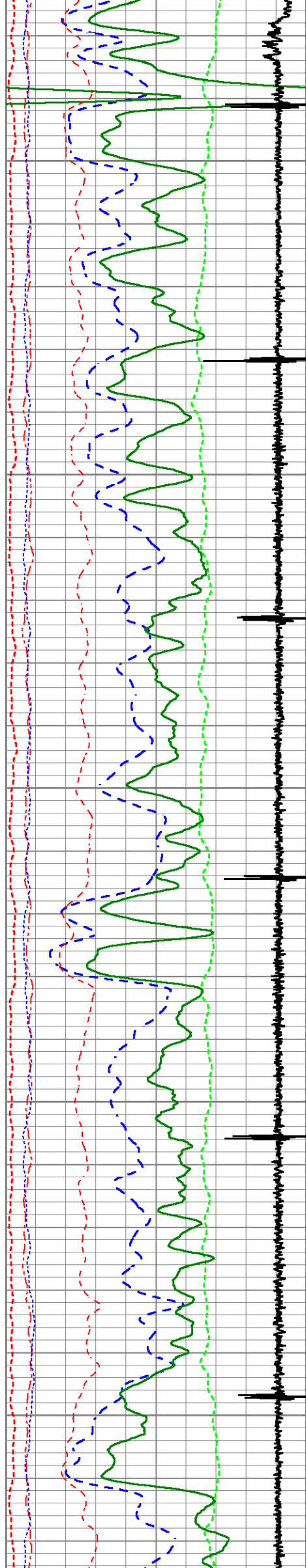
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3400

3450

3500





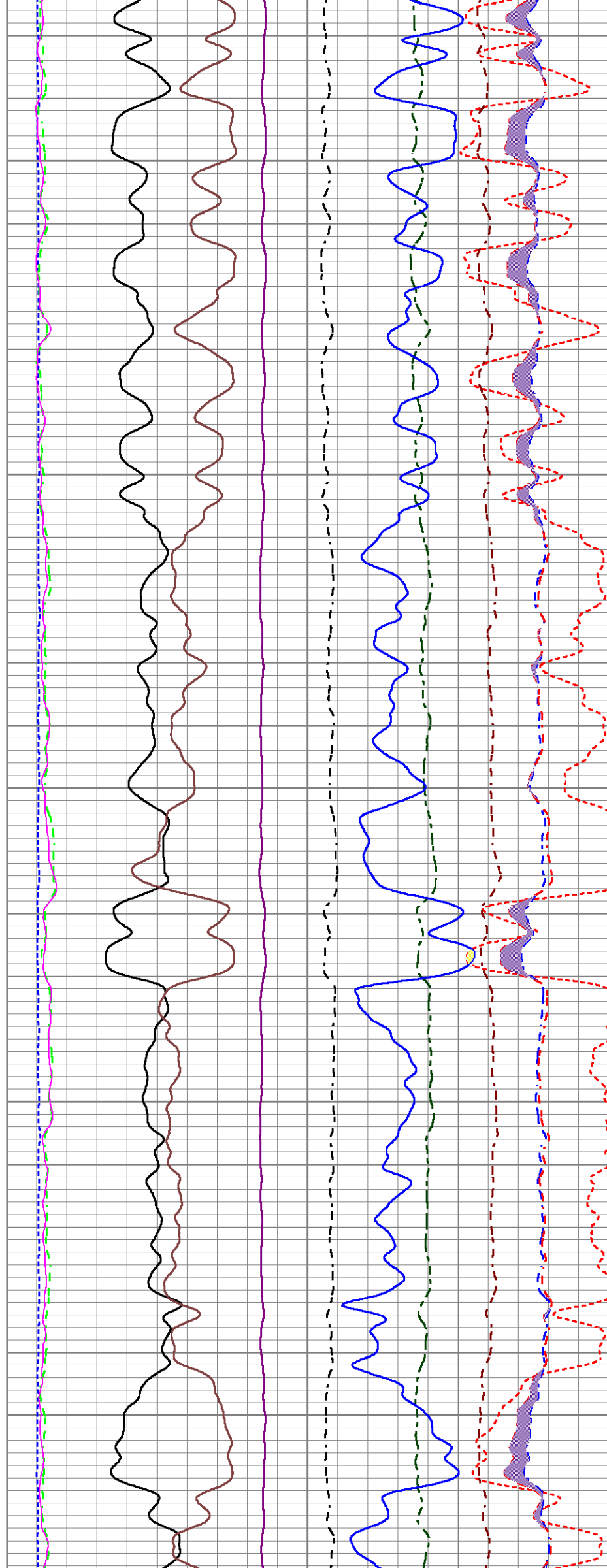
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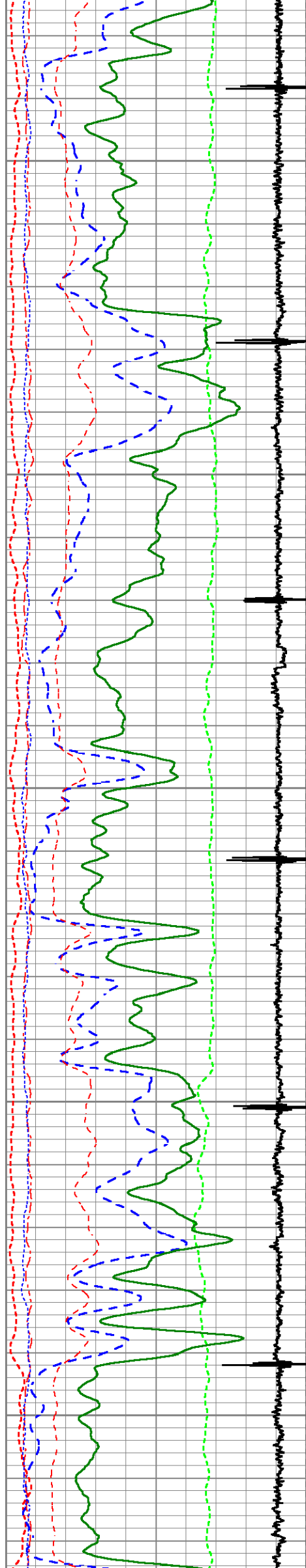
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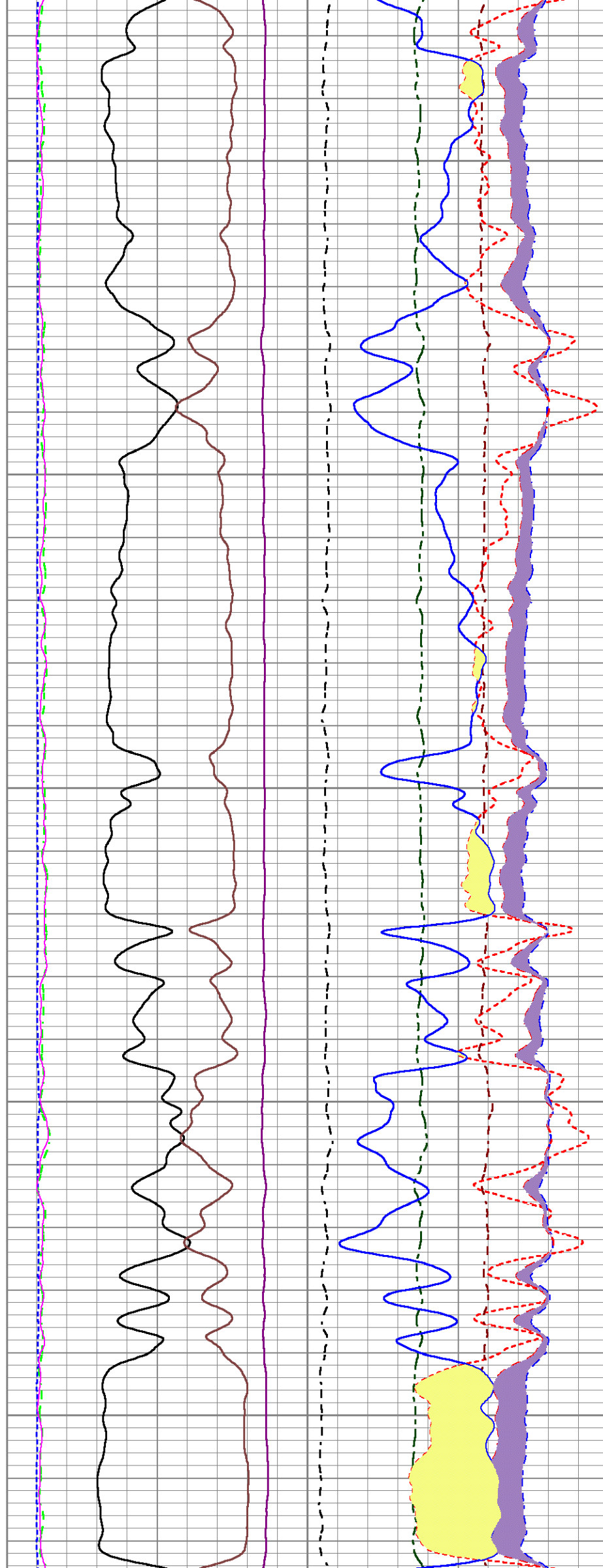
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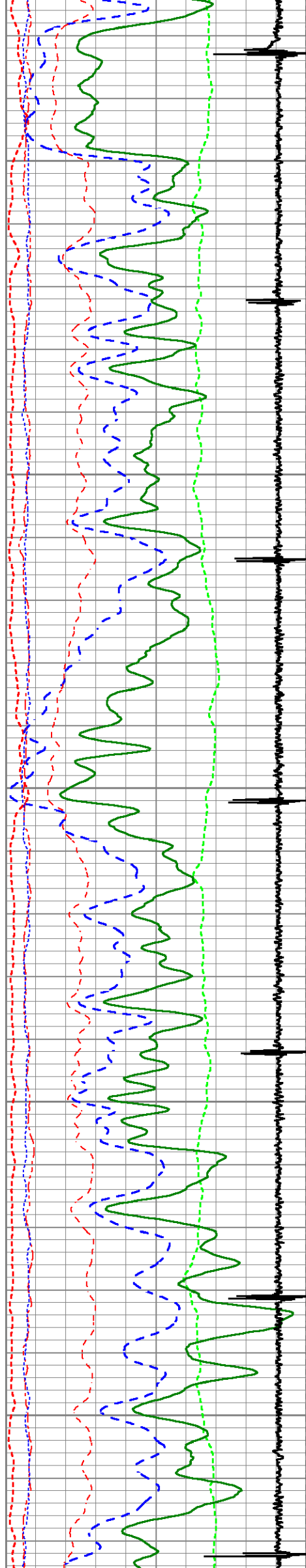
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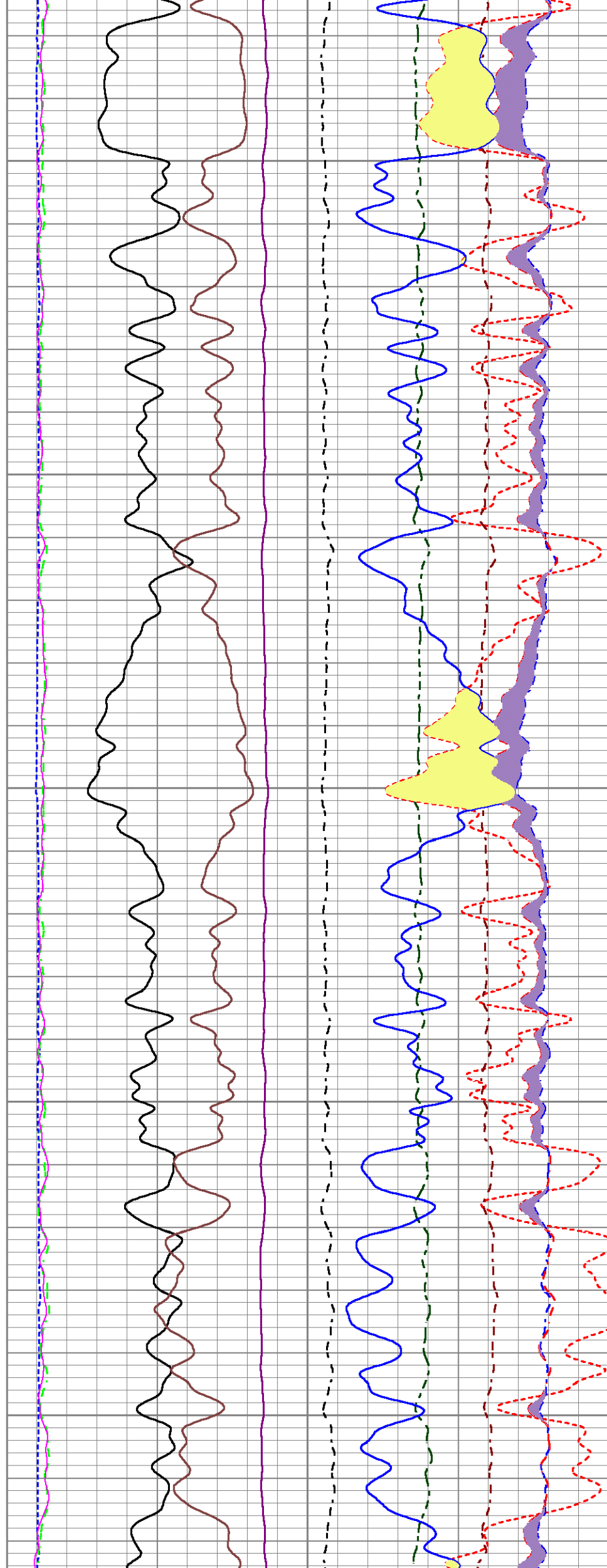
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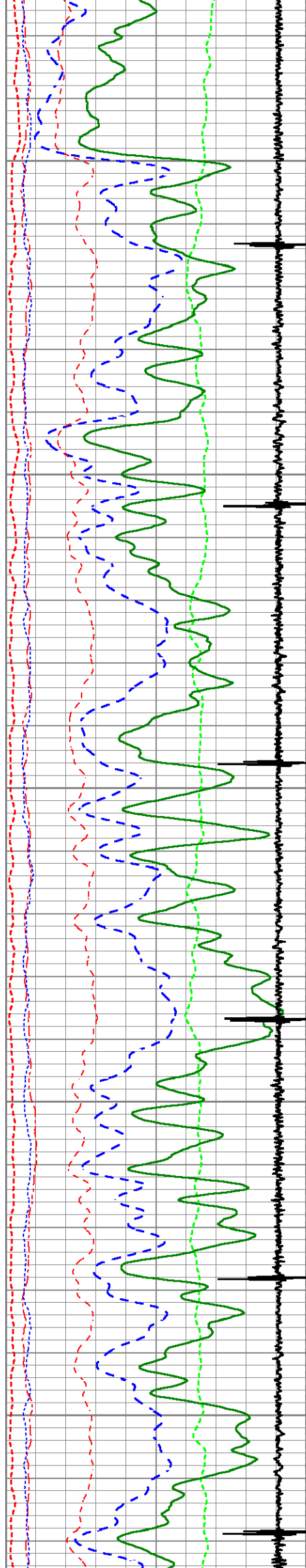
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4150

4200

4250





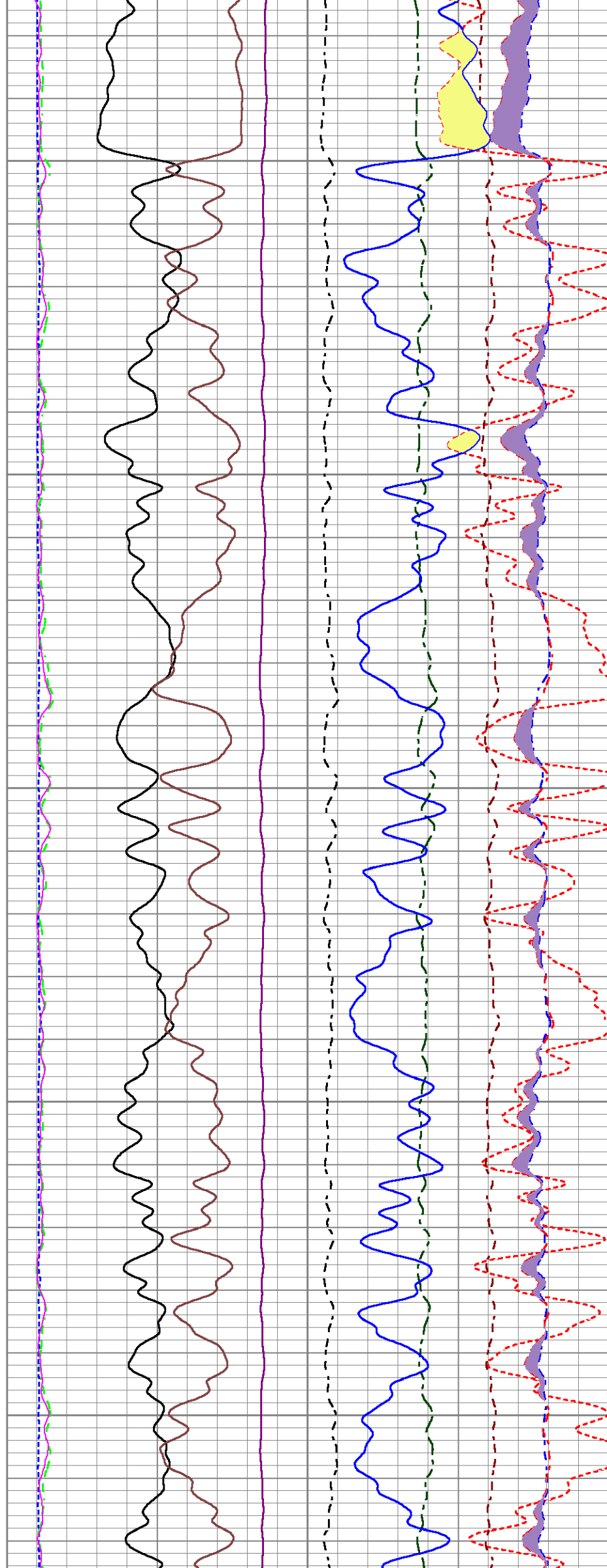
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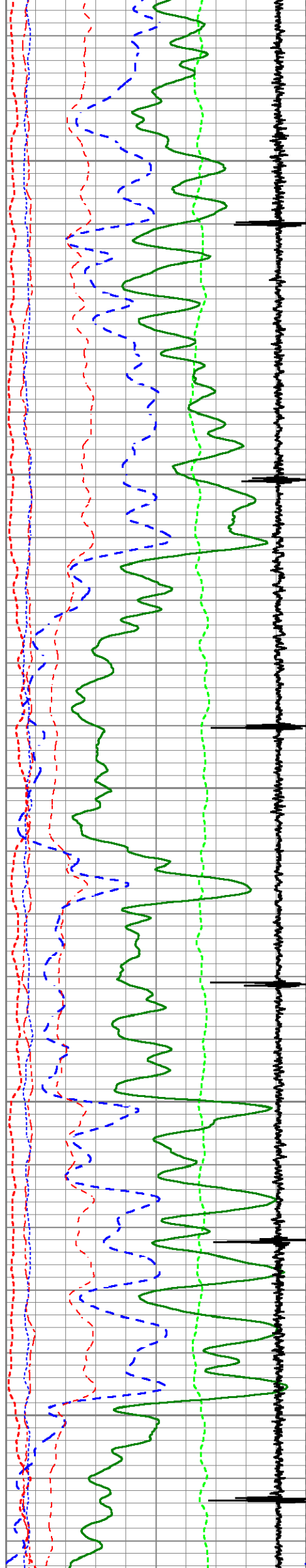
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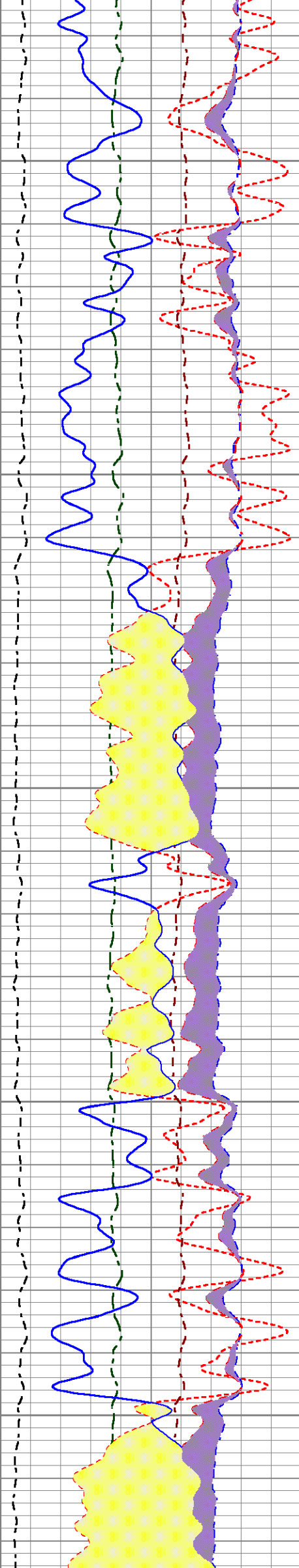
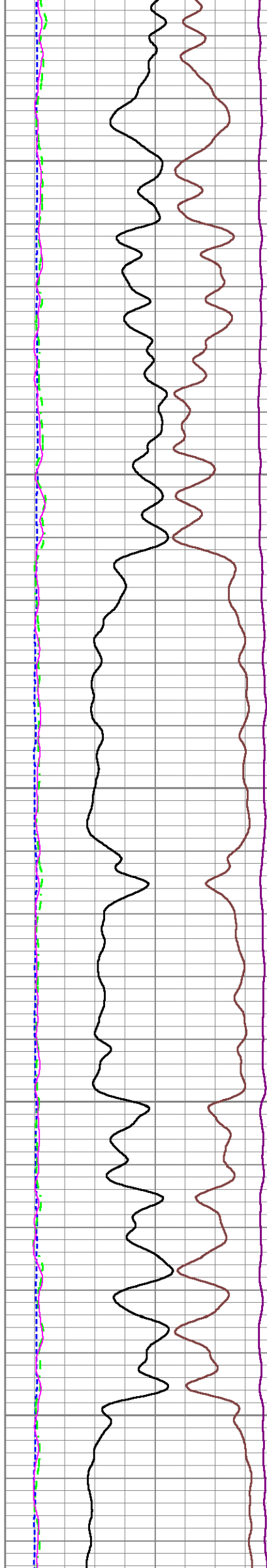
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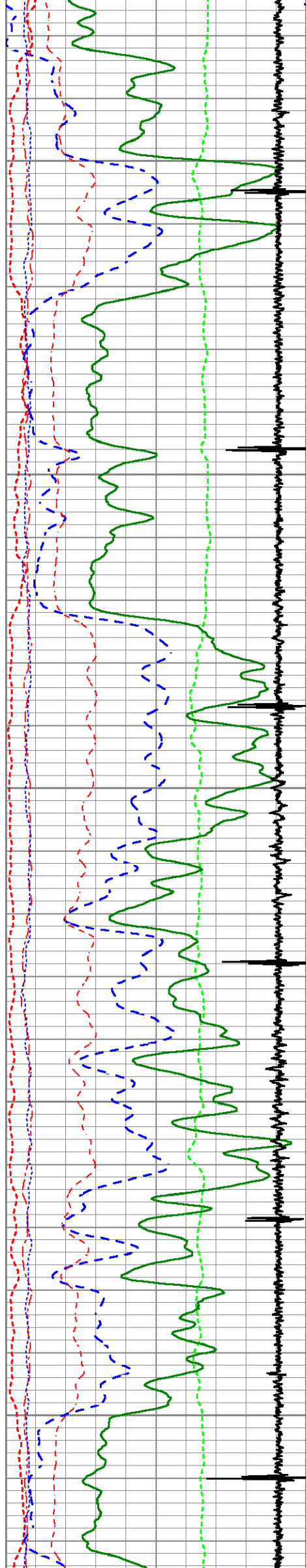
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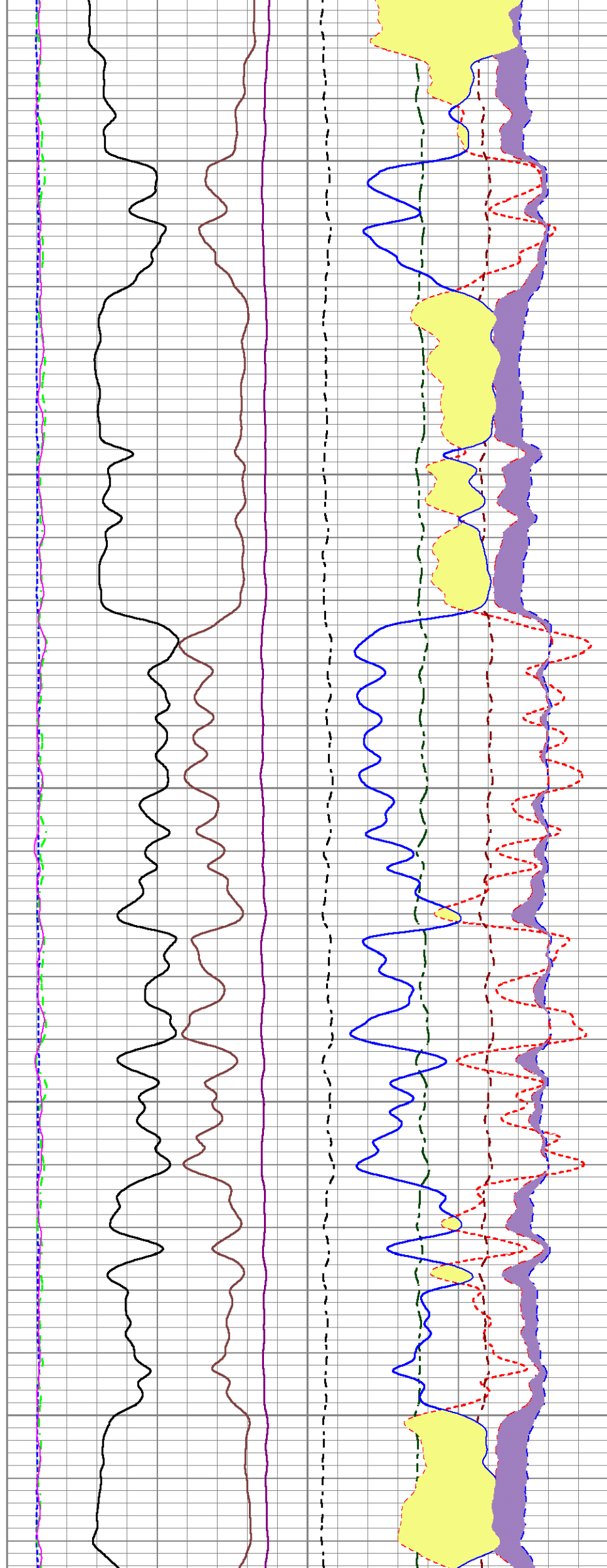
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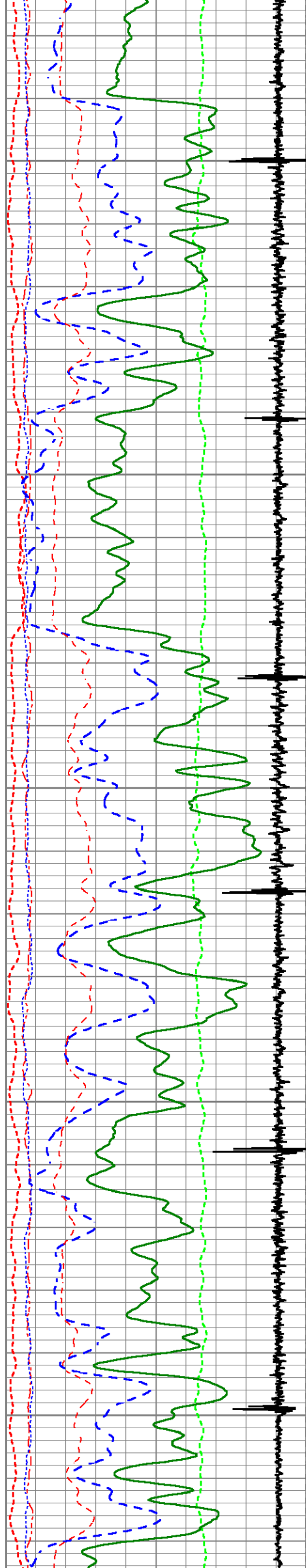
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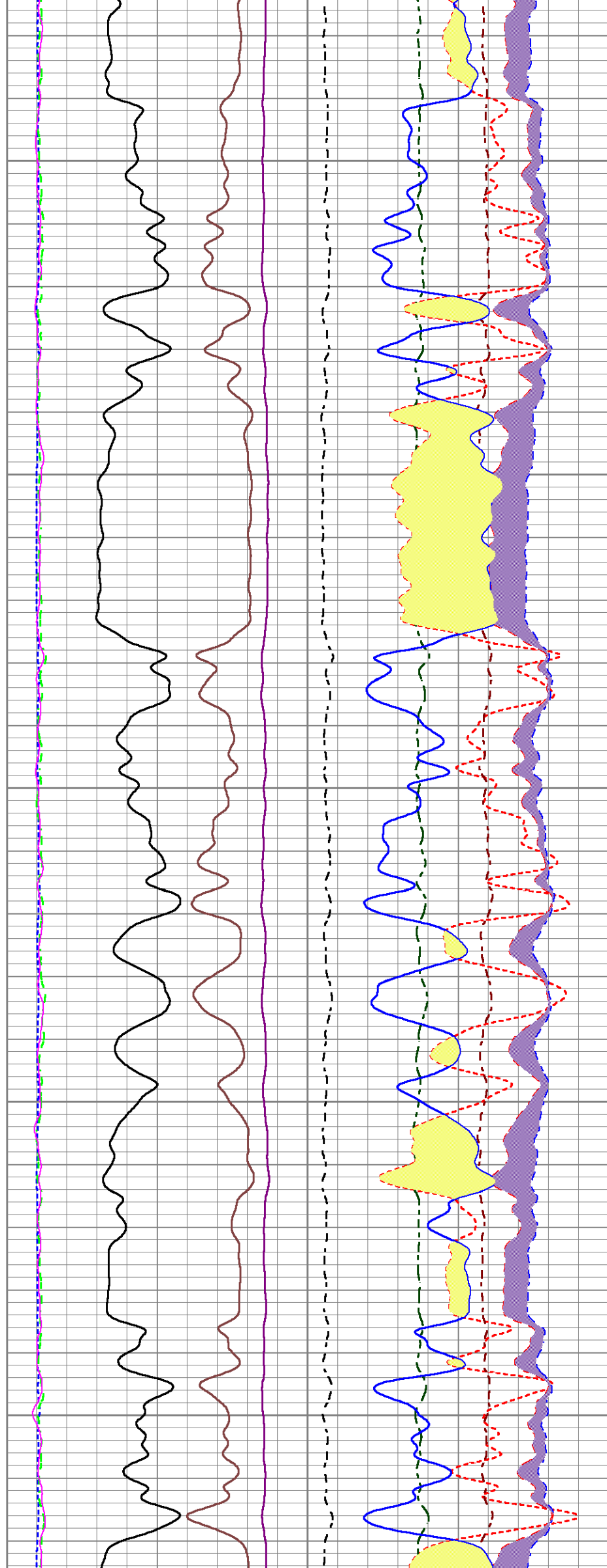
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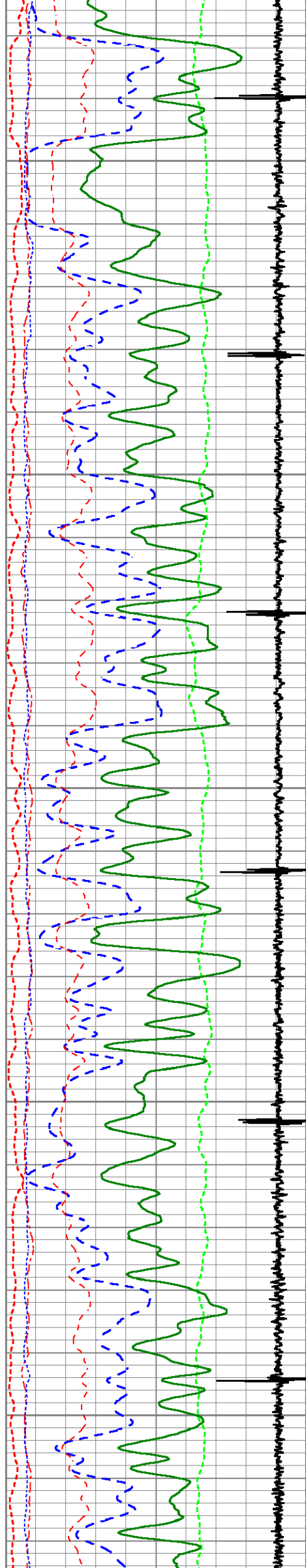
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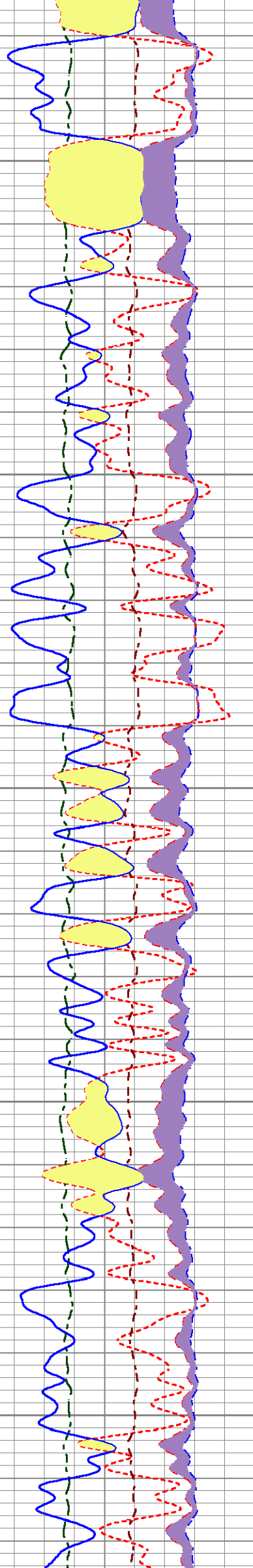
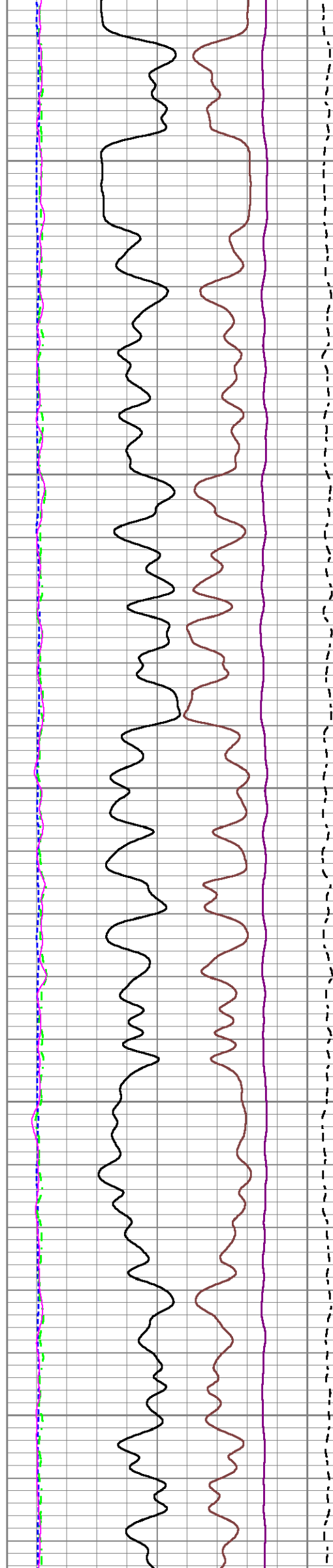
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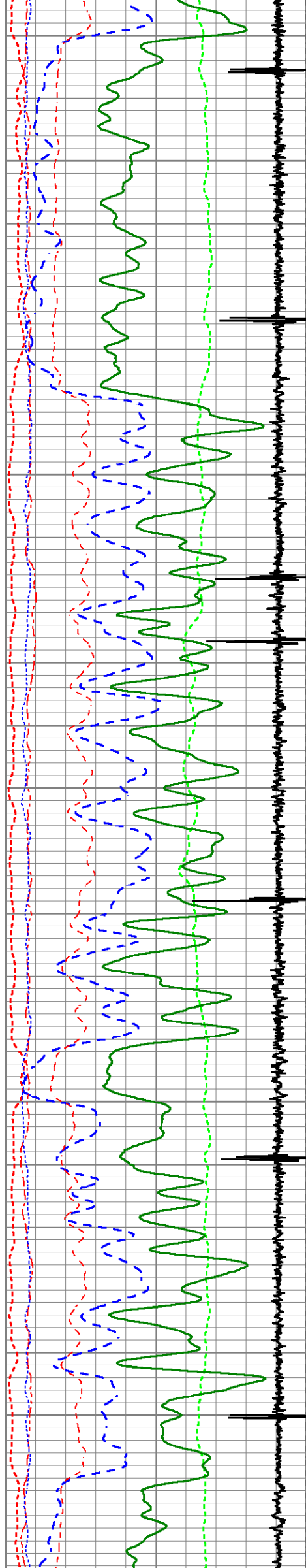
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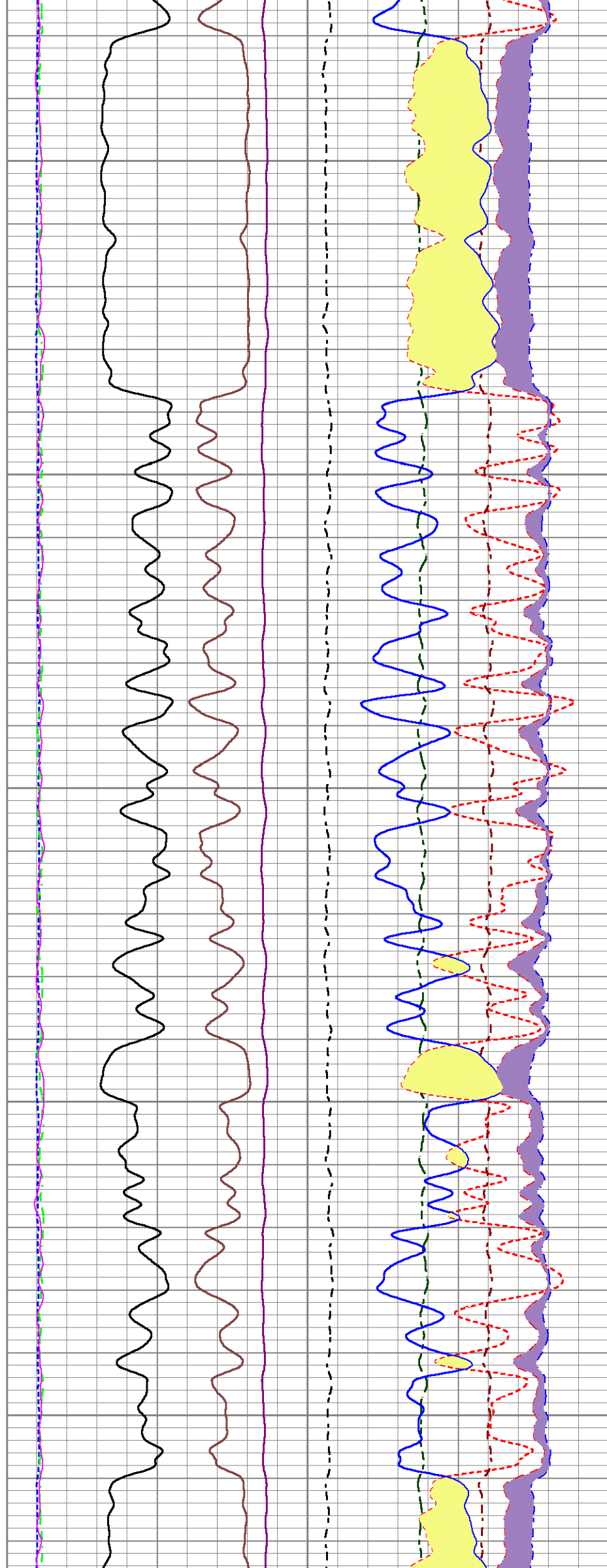
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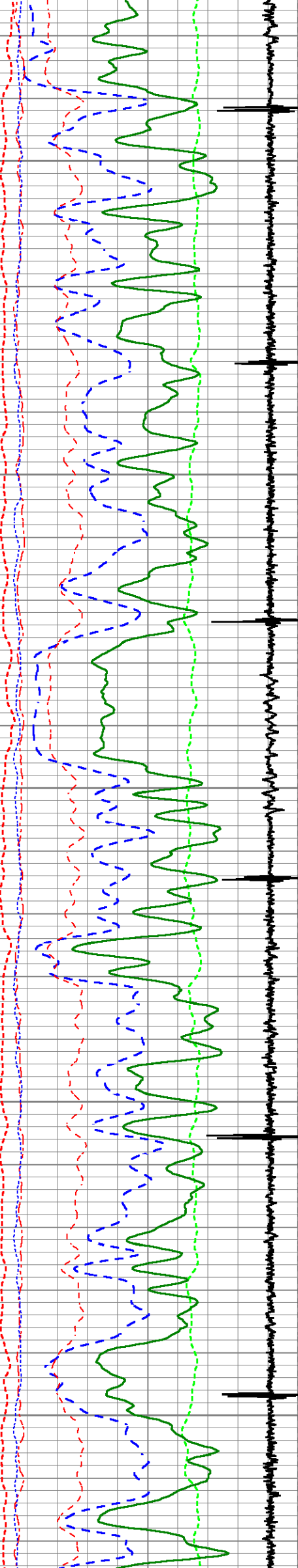
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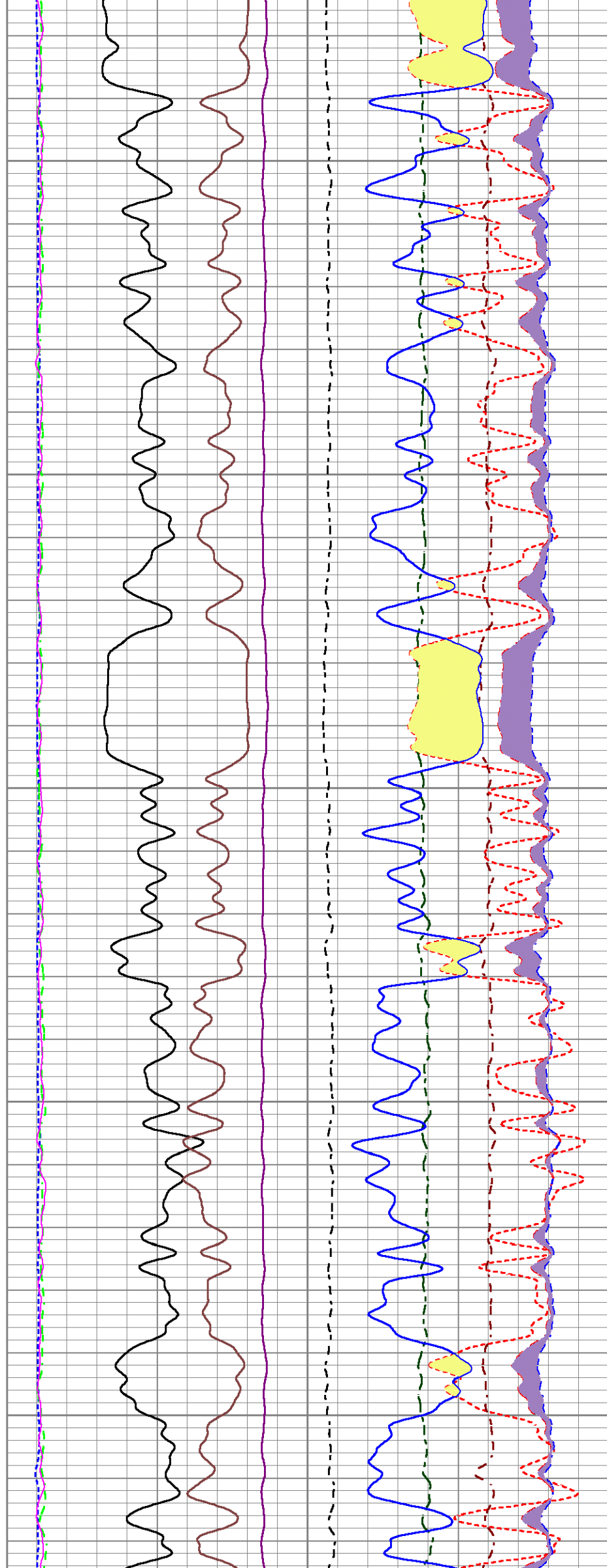
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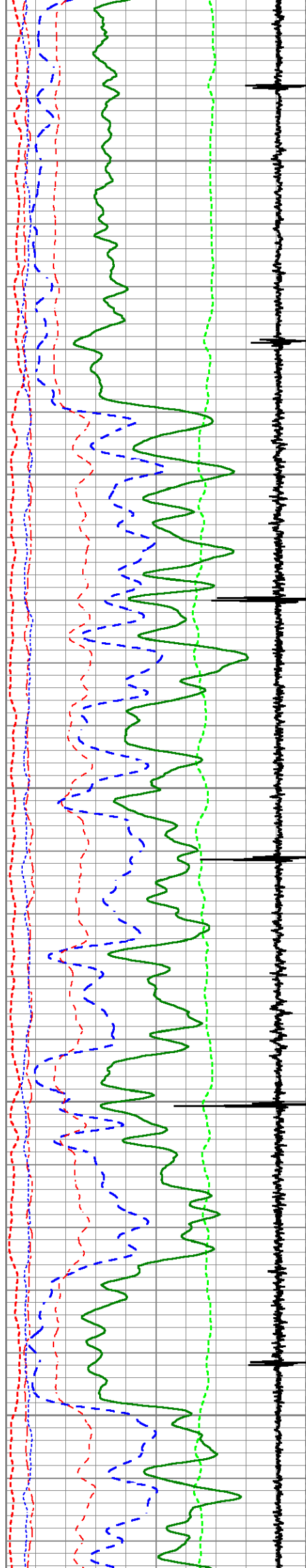
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6000





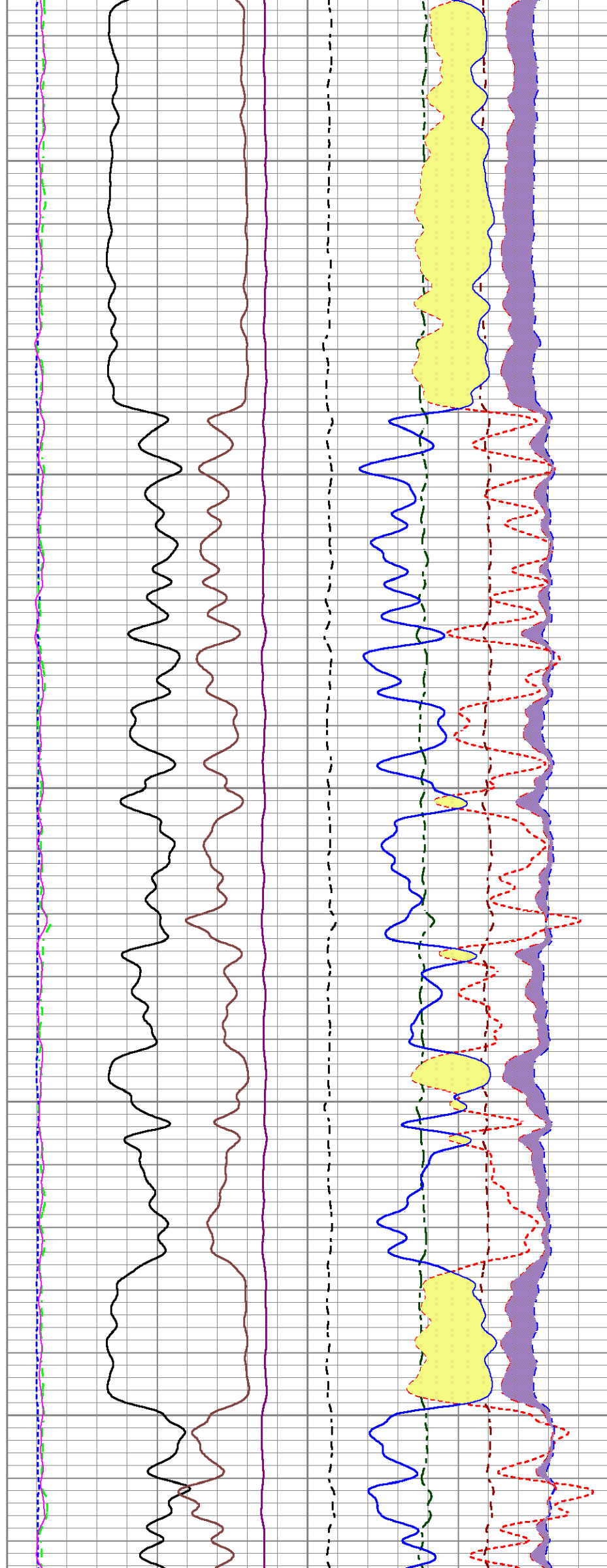
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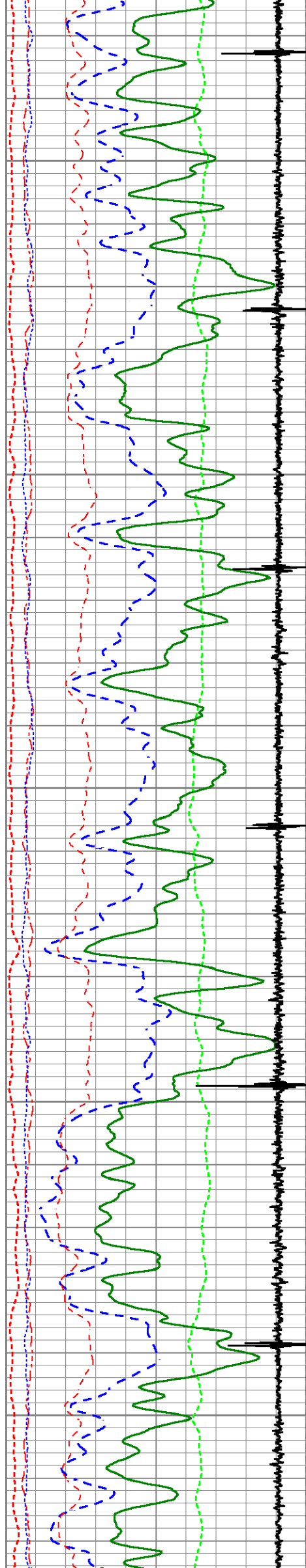
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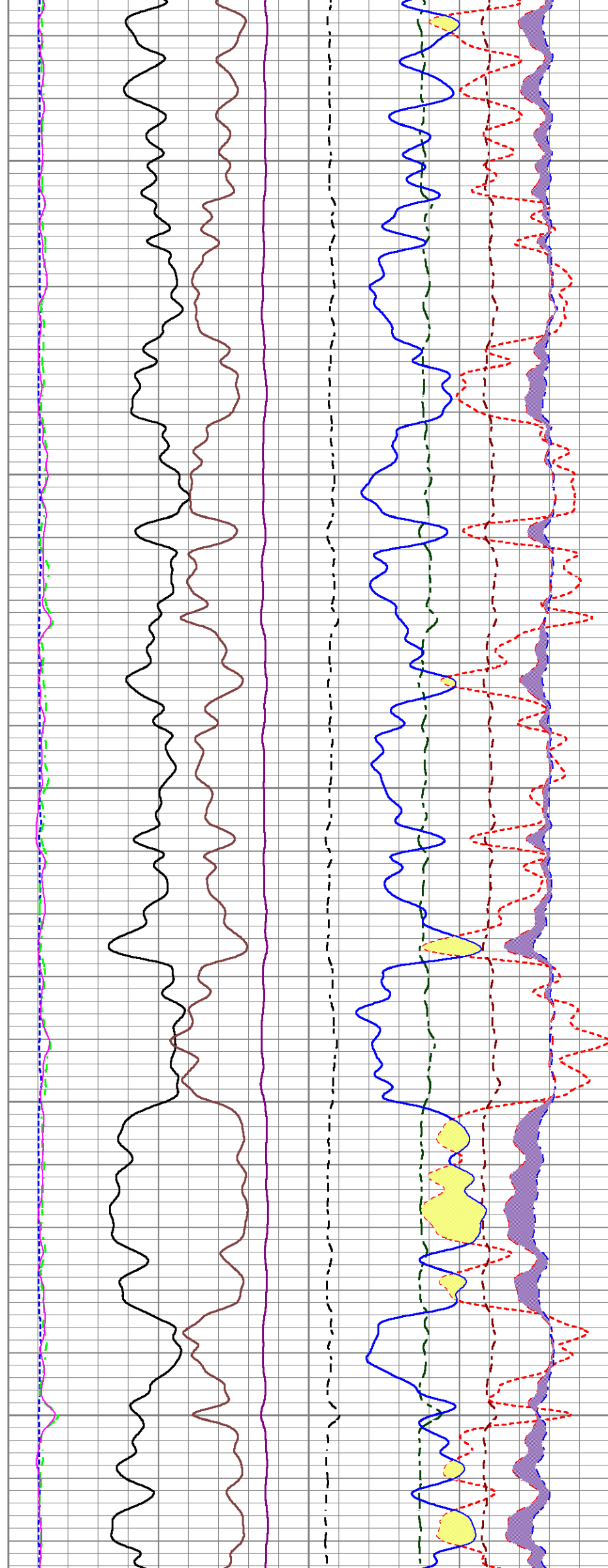
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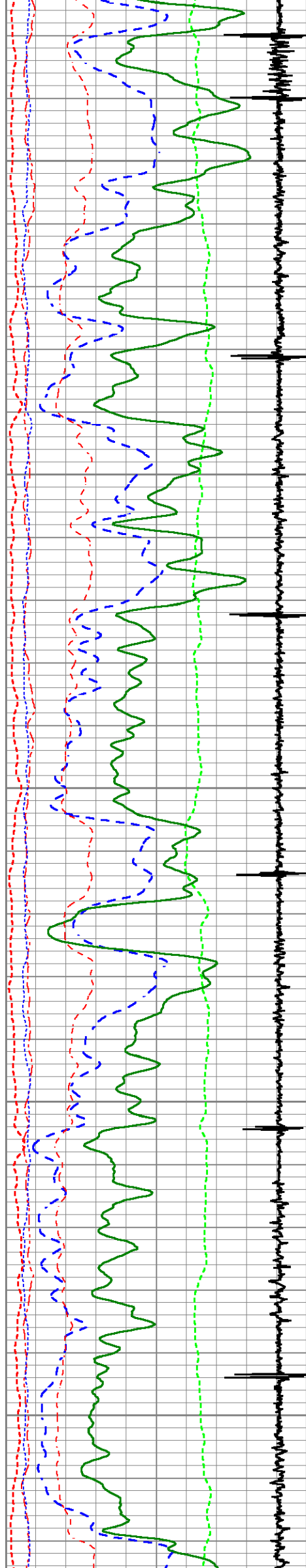
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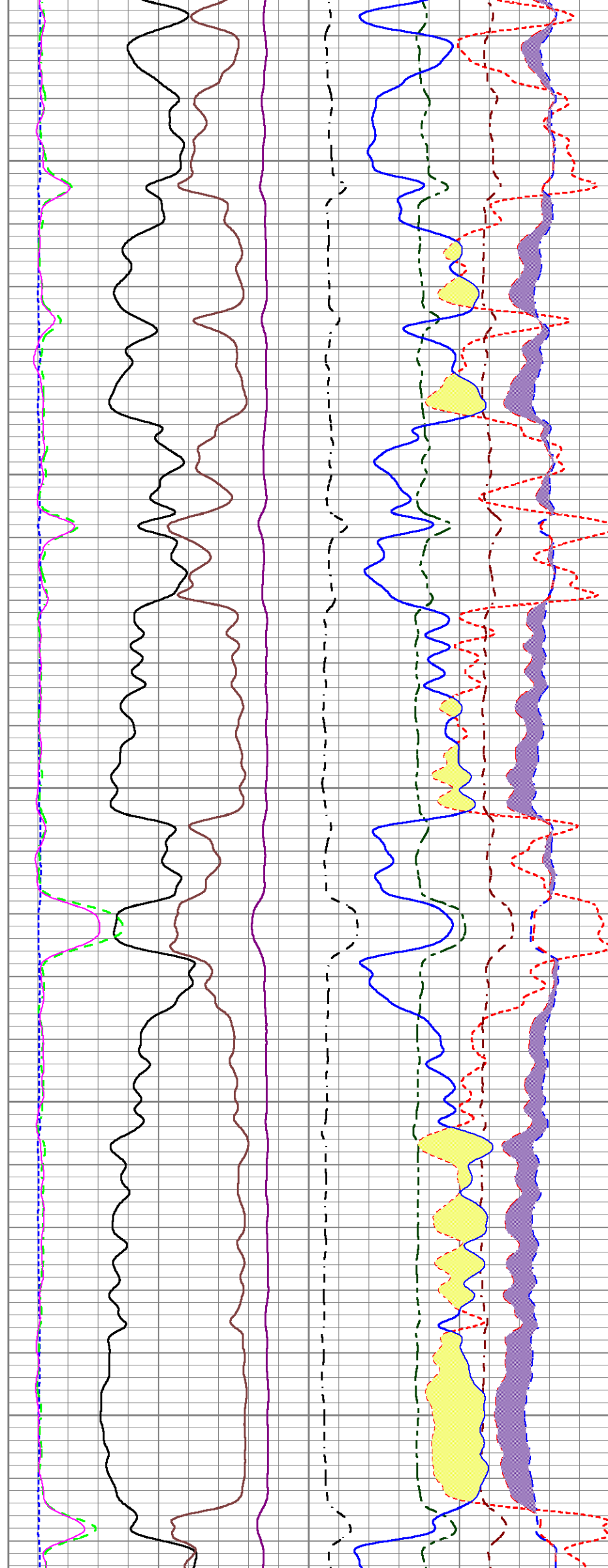
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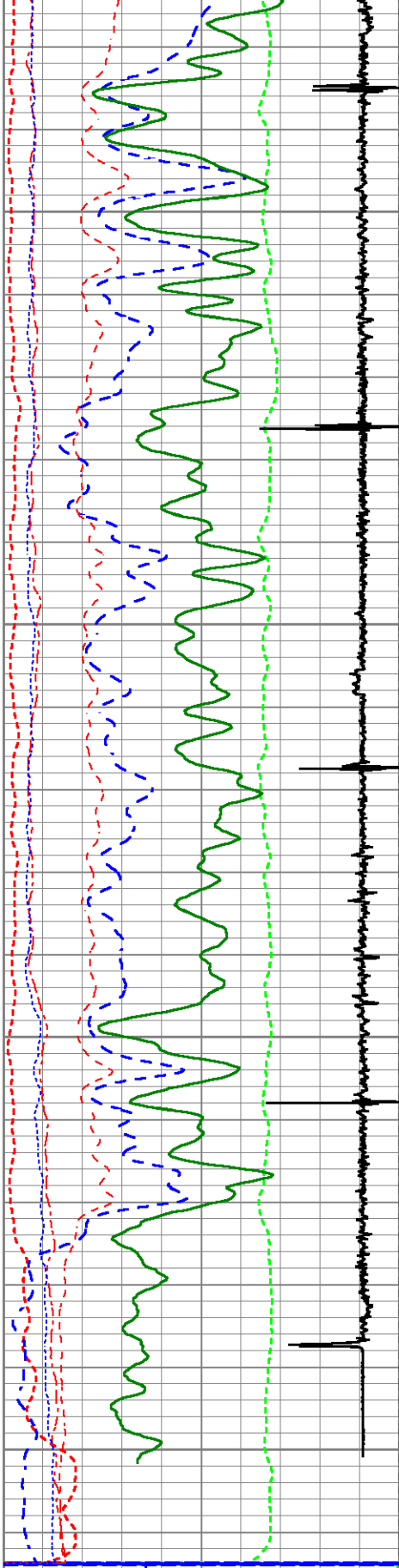
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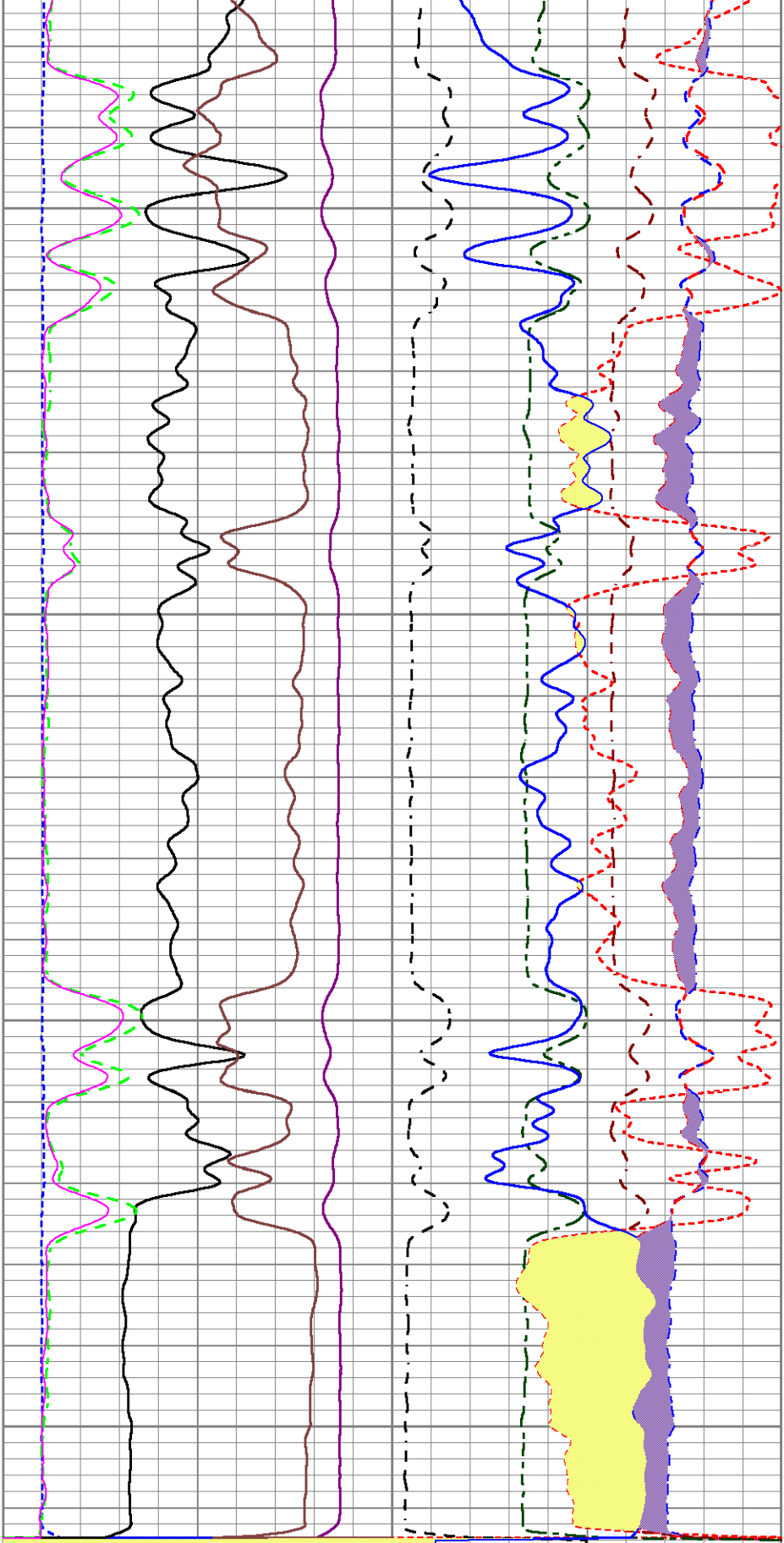
200	Near Bore Si (SGBN)	0
0	OAI	100
10	FAR FIT ERR (SGFF)	40
0	GR (GAPI)	150
0	NEAR FIT ERR (SGFN)	100
-3500	CCL	350
0	IN FIT ERR (CFTR1) NEAR	1
0	IN FIT ERR CFTR2) FAR	1

6800

6850

6900

6950



0		RATIO (RNF)			1
60		SGIN			0
0	RIN	9	60000	Near Counts (NCAP)	0
0	RICF	6	60000	Far Counts (FCAP)	0
0	H YIELD (YH2)	1	100000	FAR INTEL CT (FSIN)	0
0	H YIELD (YH1)	1	10000	(NEAR INTEL CT (NSIN)	0
0.9	PHIT ( )	-0.1	ET INL NEAR (NNI		
	INOX2	50000	-1000		



HALLIBURTON

MAIN PASS

5" = 100'

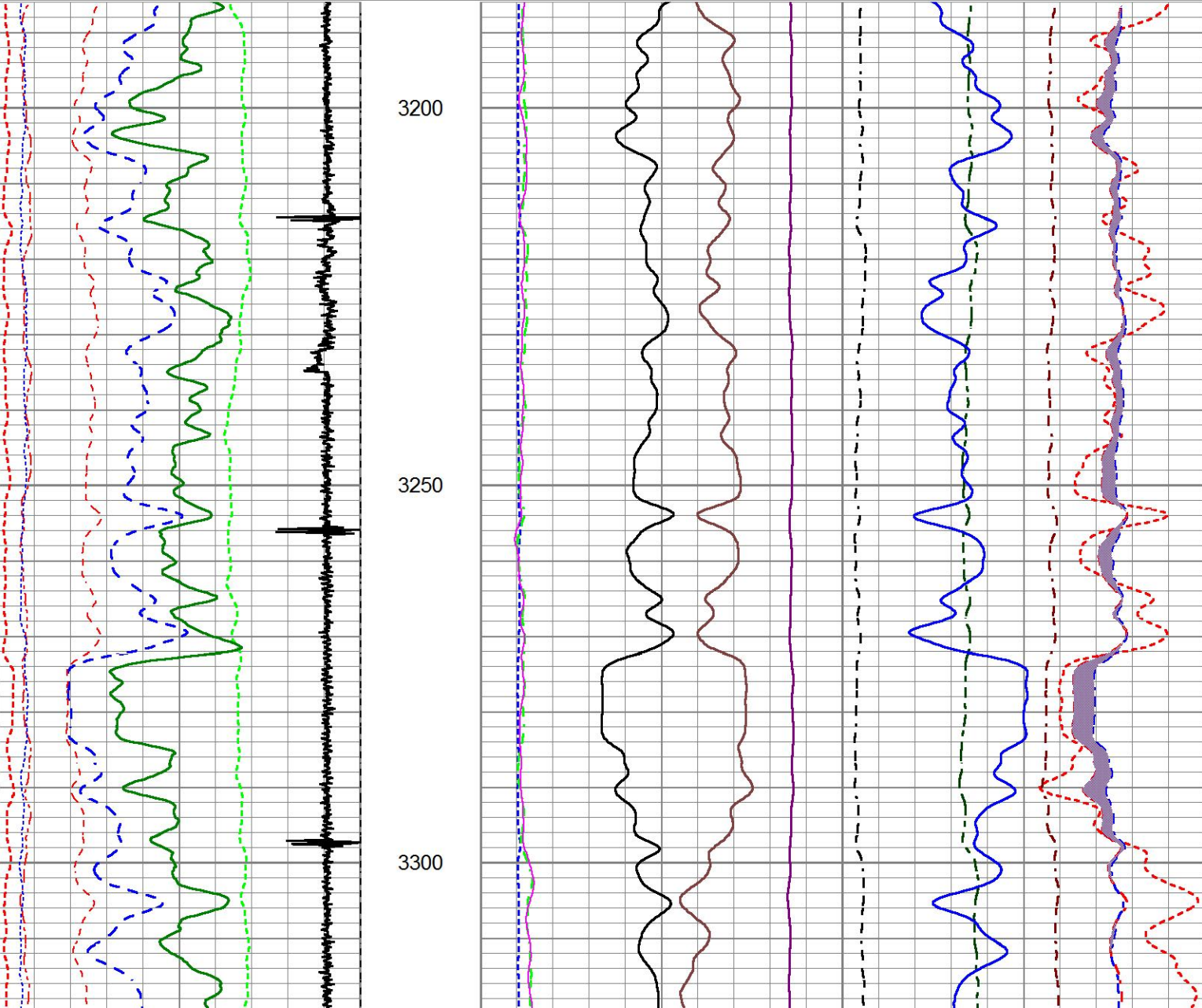
HALLIBURTON

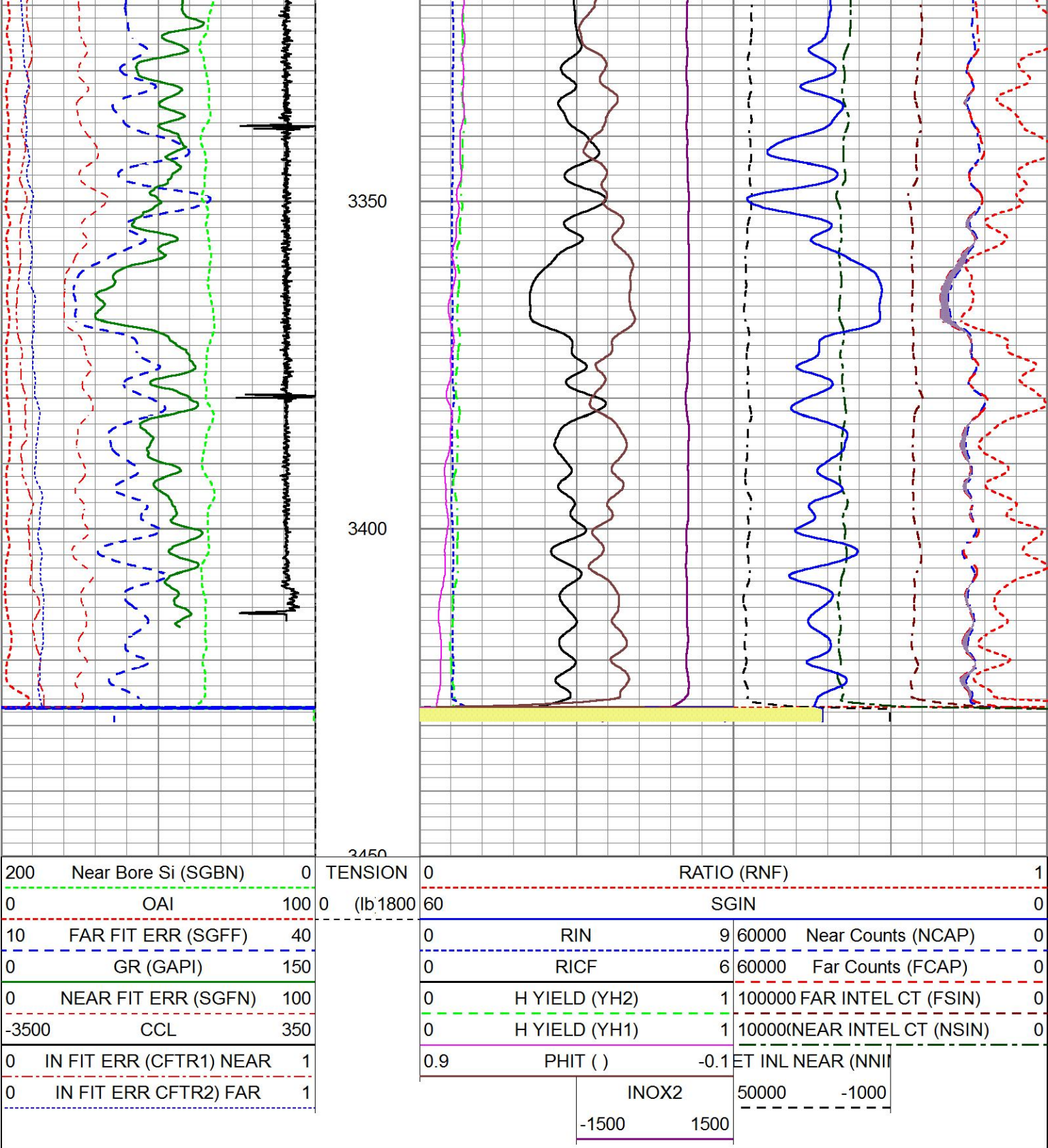
REPEAT PASS

5" = 100'

Database File g:\ursa\b&v 33b-07-07-95\33b.db  
Dataset Pathname RPT  
Presentation Format !RMTE\_~1  
Dataset Creation Mon Mar 27 15:12:01 2017  
Charted by Depth in Feet scaled 1:240

200	Near Bore Si (SGBN)	0	TENSION	0	RATIO (RNF)				1
0	OAI	100	0 (lb 1800	60	SGIN				0
10	FAR FIT ERR (SGFF)	40		0	RIN	9	60000	Near Counts (NCAP)	0
0	GR (GAPI)	150		0	RICF	6	60000	Far Counts (FCAP)	0
0	NEAR FIT ERR (SGFN)	100		0	H YIELD (YH2)	1	100000	FAR INTEL CT (FSIN)	0
-3500	CCL	350		0	H YIELD (YH1)	1	10000	(NEAR INTEL CT (NSIN)	0
0	IN FIT ERR (CFTR1) NEAR	1		0.9	PHIT ( )	-0.1	ET INL NEAR (NNI		
0	IN FIT ERR CFTR2) FAR	1					50000	-1000	





REPEAT PASS

5" = 100'

Log Variables

Database: g:\ursa\b&v 33b-07-07-95\33b.db  
Dataset: field/well/run1/MAIN1/\_vars\_

Top - Bottom


BHSAL1	BHSAL2	BHTEMP_Src	BITSIZE	BORSAL	BOTTEMP	CASED?	CASEOD
1	0	TEMP	in 7.875	kppm 150	degF 200	Yes	in 4.5
CASETHCK	CASEWGHT	LIRISHFTF	LIRISHFTN	LTH	MAXAMPL	MINAMPL	MINATTN
in 0.25	lb/ft 11.6	0	0	Sandstone	mV 82	mV 1	db/ft 0.8
MSGGN	MudWgt	PERFS	POROS1	POROS2	PPT	RHO�F	SO
	lb/gal				usec		in



1	8.4	0	1	0	0	0.25	0
SRFTEMP degF 50	TDEPTH ft 6500	UHSGC  NONE	USERFTT usec/ft 0	ZREF MRayl 1.7			

Calibration Report		
Database File	g:\ursa\b&v 33b-07-07-95\33b.db	
Dataset Pathname	MAIN1	
Dataset Creation	Mon Mar 27 16:16:44 2017	
Cement Bond Log Shop Calibration Report		
Serial-Model:	11836468-A	
Calibration Performed:	Sun Mar 26 19:34:08 2017	
Free Pipe Calibration		
TT	Measured	Units
	245.6	usec
Amplitude	408.0	mV
Log Base Line	19.3	mV
Calibration References and Gain		
Name	Value	Units
Pipe O.D.	4.500	in
Pipe Weight	11.6	lb/ft
Pipe Ref. Amp.	82.0	mV
Amp. Gain	0.208	


Gamma Ray Calibration Report						
Type / Serial:		002 / 12159411				
SHOP CALIBRATION		Mon Feb 20 15:54:04 2017				
	Counts/Sec.	Gain	Offset	Jig	Units	
Background	27.6				cps	
Calibrator	317.4				cps	
		1.4943			GAPI/cps	
PRIMARY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	
BEFORE SURVEY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	
AFTER SURVEY VERIFICATION						
Background	0.0				cps	
Calibrator	0.0				cps	
Difference				0.0	GAPI	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			STNDCH-STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00



CCL	35.86					
GR	33.60		TTTCU-002 (12159411) Through Tubing Telemetry Cartridge - Ultrawire	7.65	1.69	37.00
			XHU-003 (000001) Crossover Halliburton 1553 to Ultrawire	1.58	1.69	7.00
RmtTFGT RmtTNGT	22.95 22.45		RMTI-A (12376244) Halliburton RMTI Tool	14.00	2.13	77.00
RmtFP5V RmtNFwvMcsP RmtCommFWa	14.70 14.70 14.70		X-OVER-SondexxGo Sondex Box x Go Pin Cross Over CENT-CASTM-CENT CAST M INLINE CENTRALIZER	0.31 2.16	1.69 3.13	1.00 25.00
Temp	9.57					
TT3FT AMP3FT WVF5FT	7.32 7.32 6.36		HCBLM-A (11836468) Halliburton HCBLM Tool	9.38	2.75	116.00
WVF3FT	2.84	CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00	
		AUH-001 (11072111) Adaptor Ultrawire/Halliburton	0.38	1.69	3.00	
LLMTEN	0.00	BUL-001 (000001) Bullnose	0.30	1.69	1.50	
Dataset: 33b.db: field/well/run1/MAIN1 Total length: 39.43 ft Total weight: 293.50 lb O.D.: 3.13 in						

Company	URSA OPERATING COMPANY
Well	B&V 33B-07-07-95
Field	WILDCAT

Field	WILSON	State	CO
County	GARFIELD		
HALLIBURTON	RESERVOIR MONITORING TOOL - ELITE		