

RESERVOIR MONITORING TOOL - ELITE

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

Service Ticket No.	903920044	API No.	05045228470000	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		

HALLIBURTON

MAIN PASS

5" = 100'

Database Fileg:\ursab&v 33a-07-07-95\33a.db

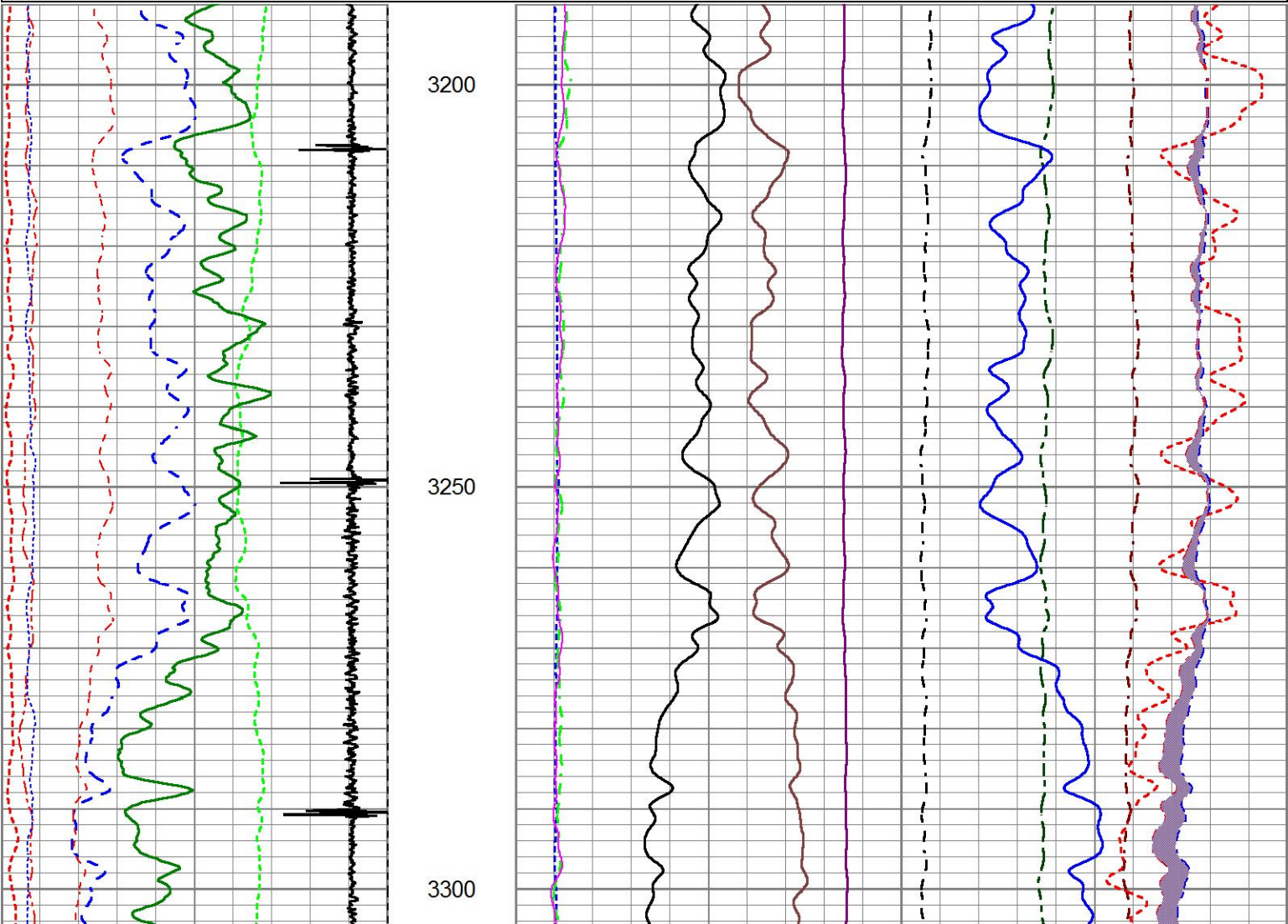
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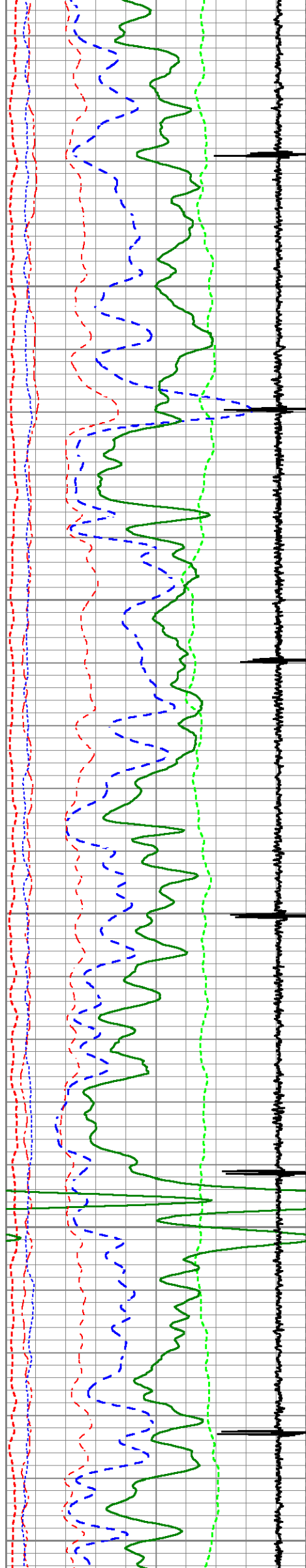
Presentation FormatIRMTE_~1

Dataset CreationMon Mar 27 20:53:19 2017

Charted byDepth 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	





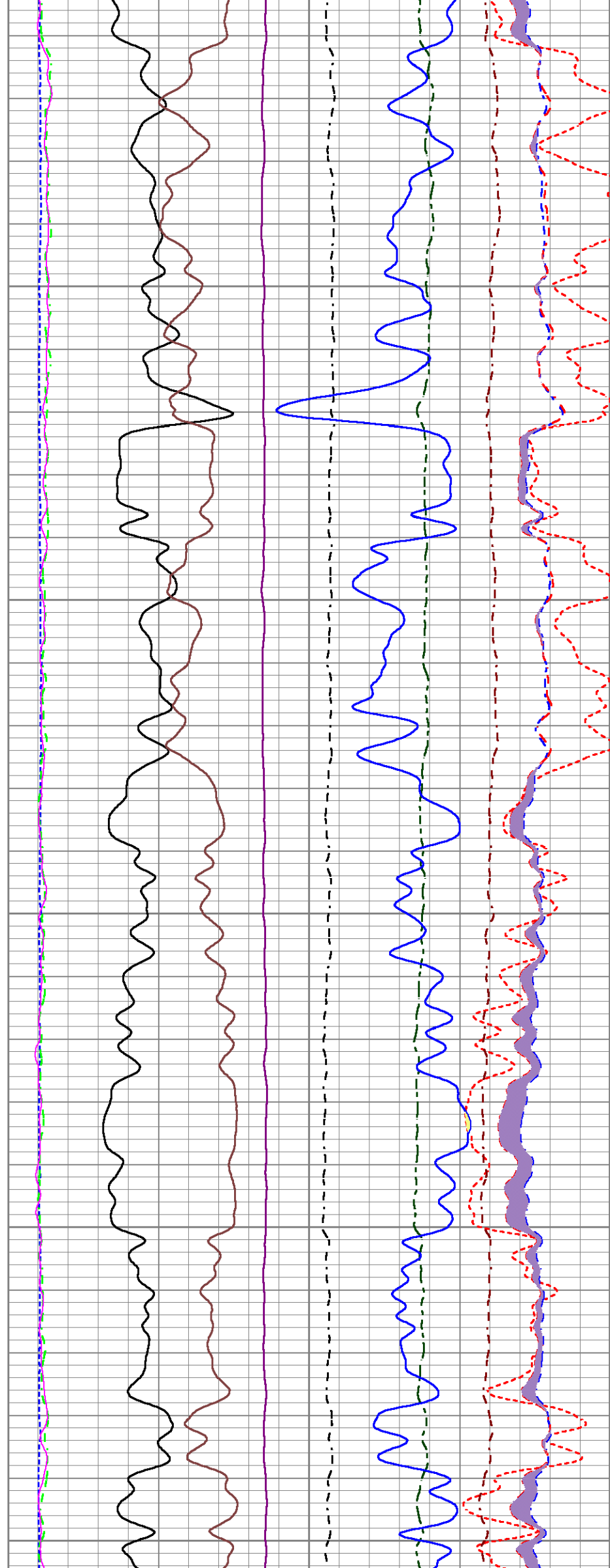
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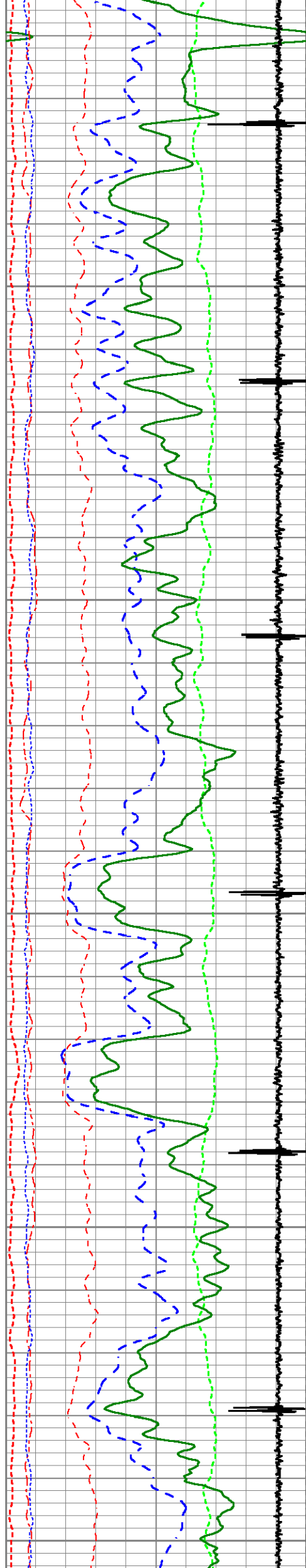
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3500

3550





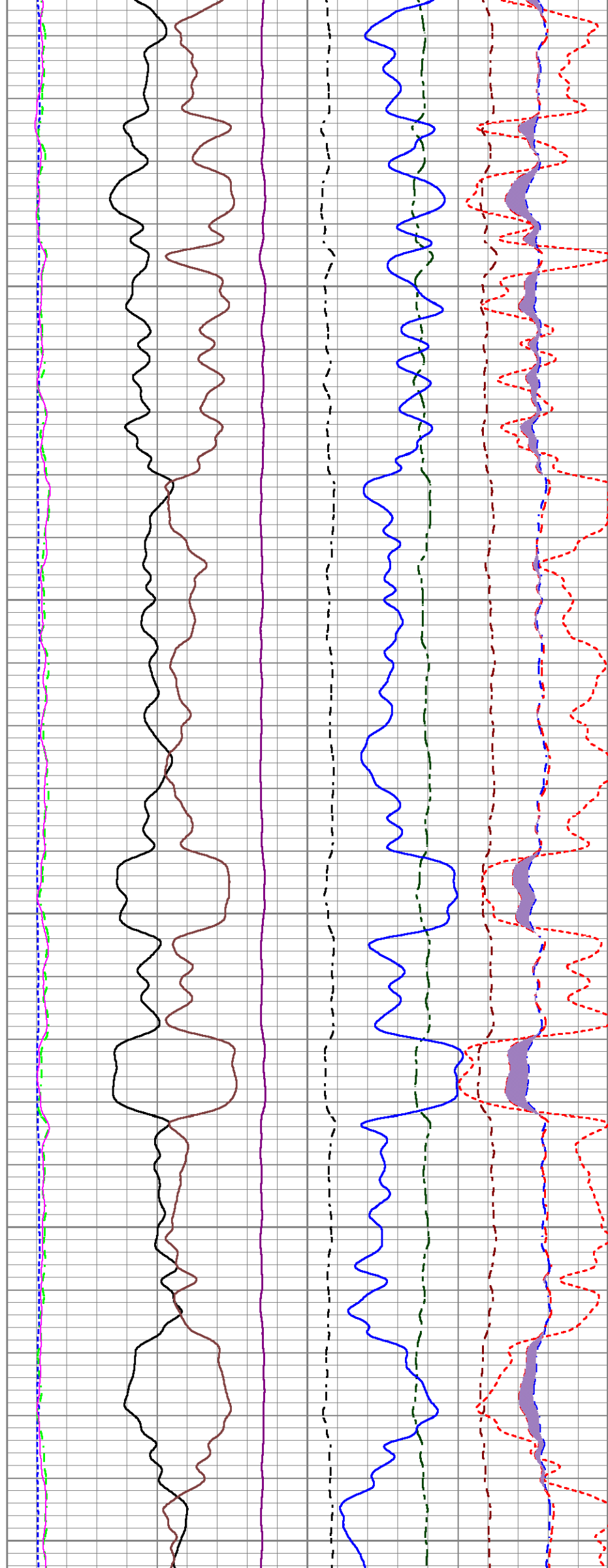
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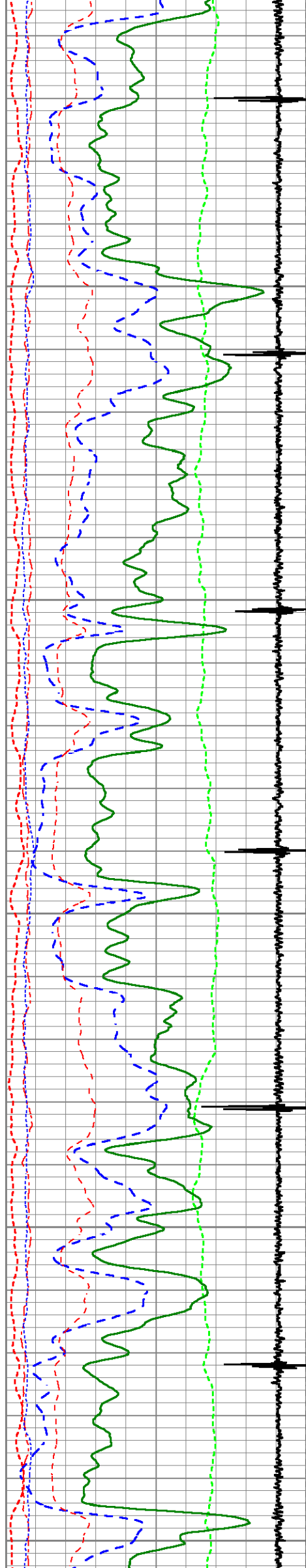
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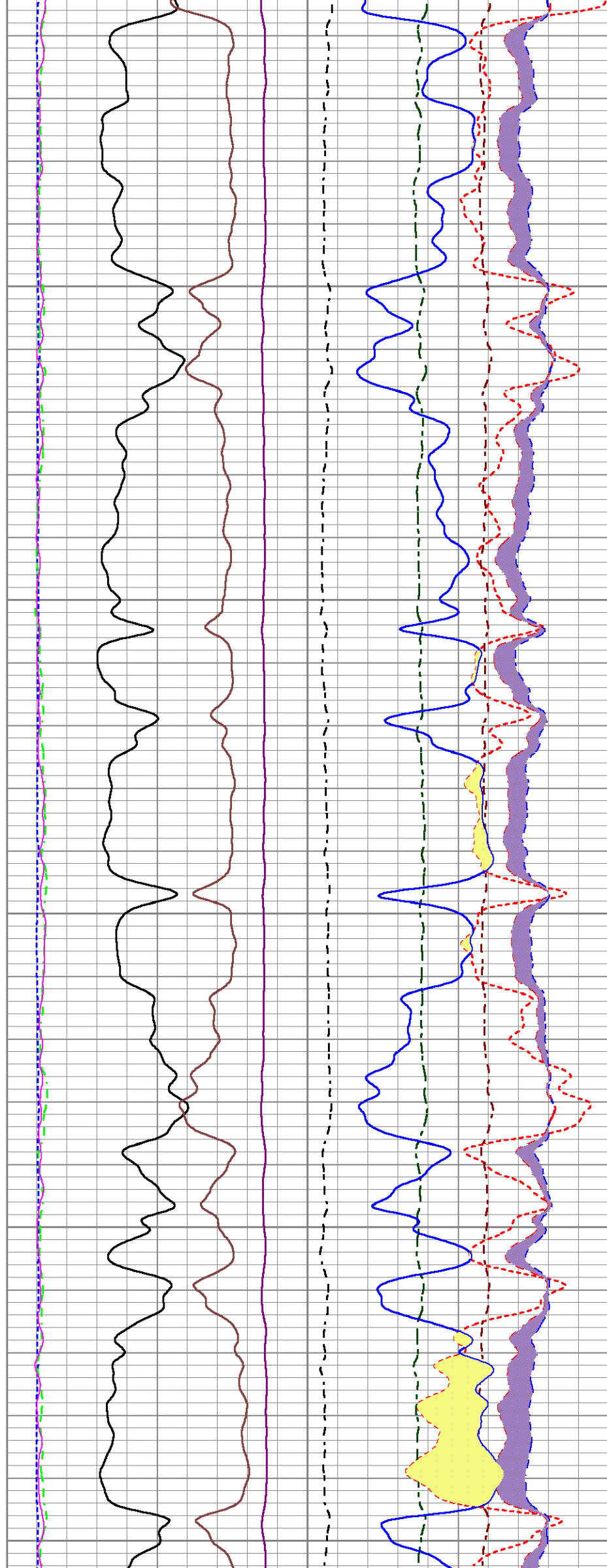
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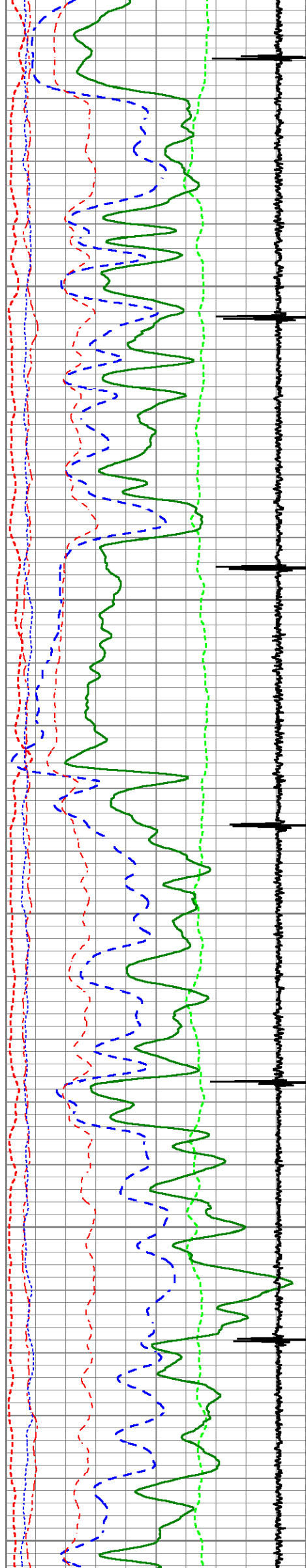
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4050





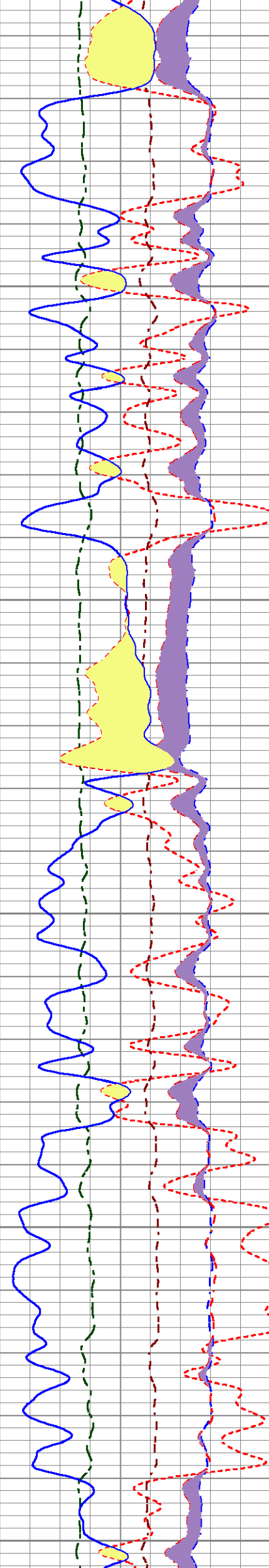
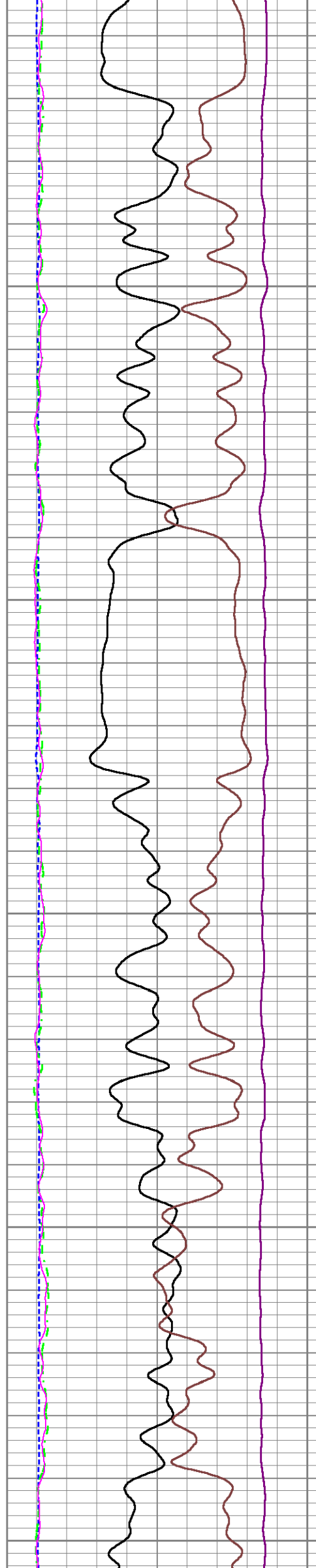
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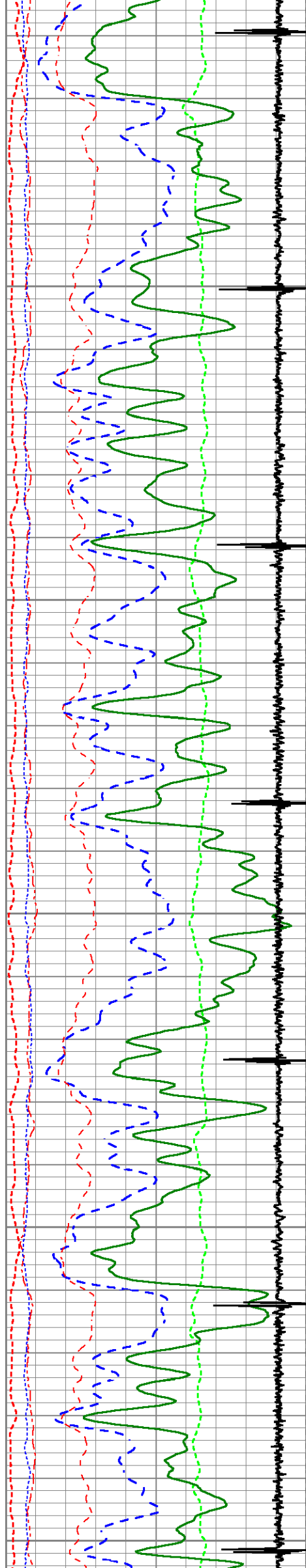
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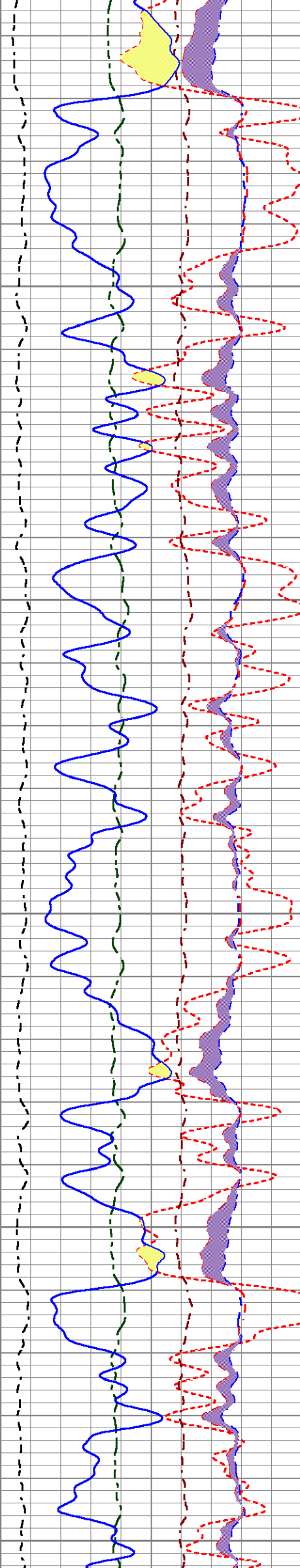
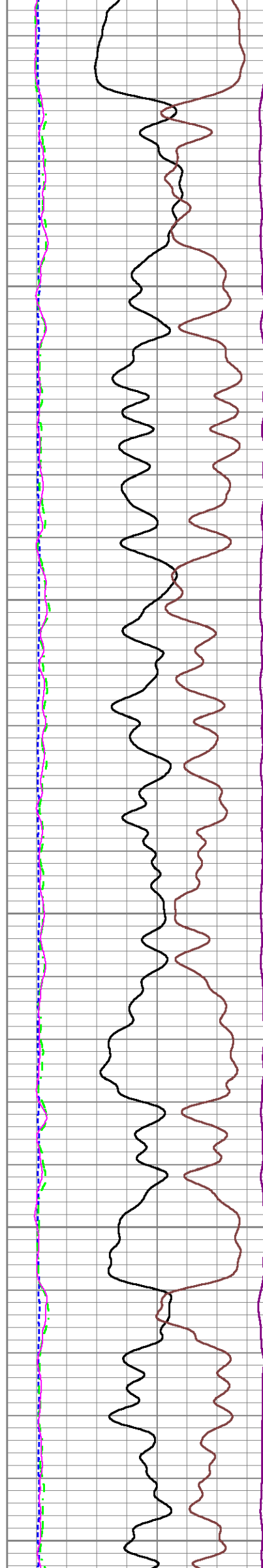
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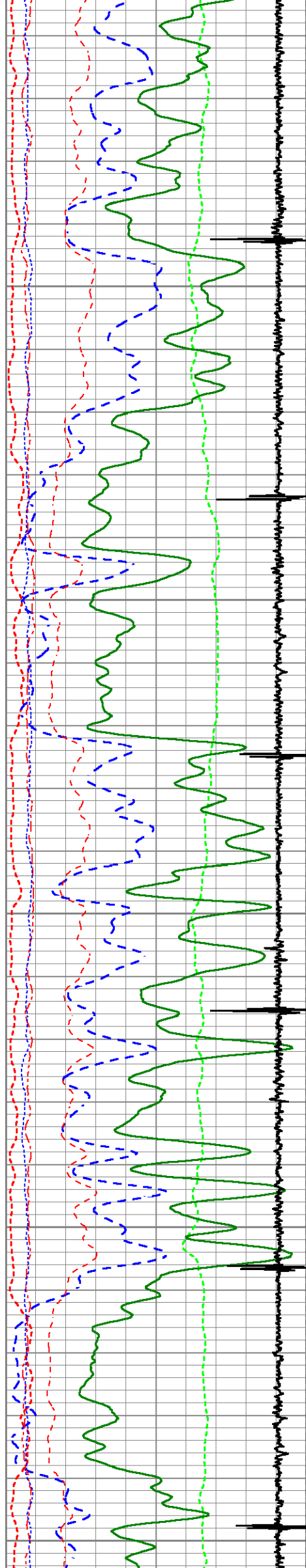
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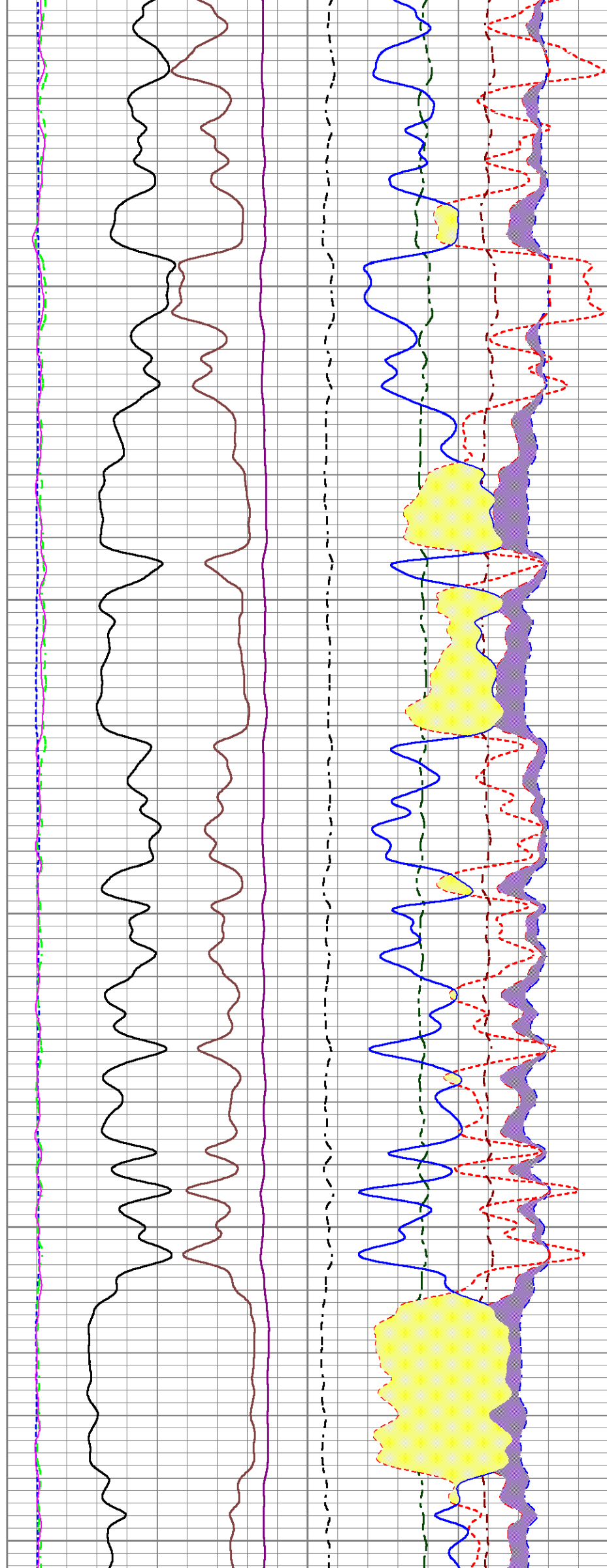
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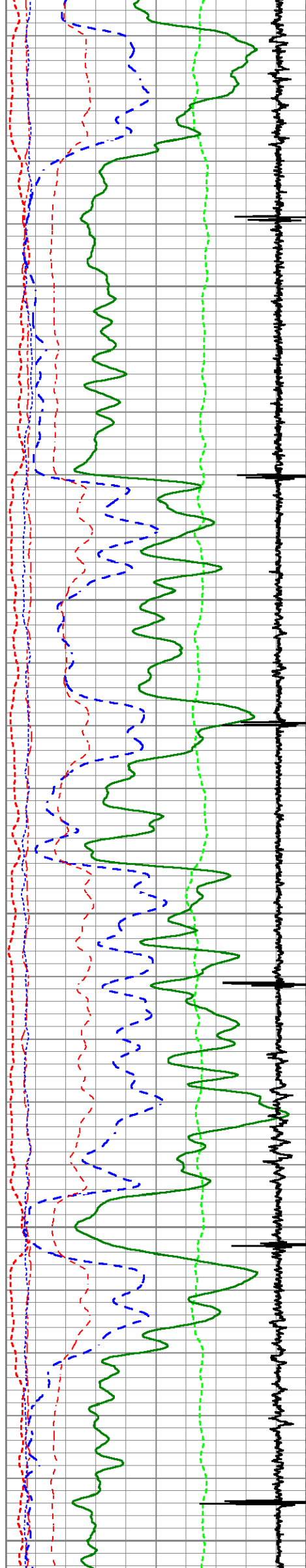
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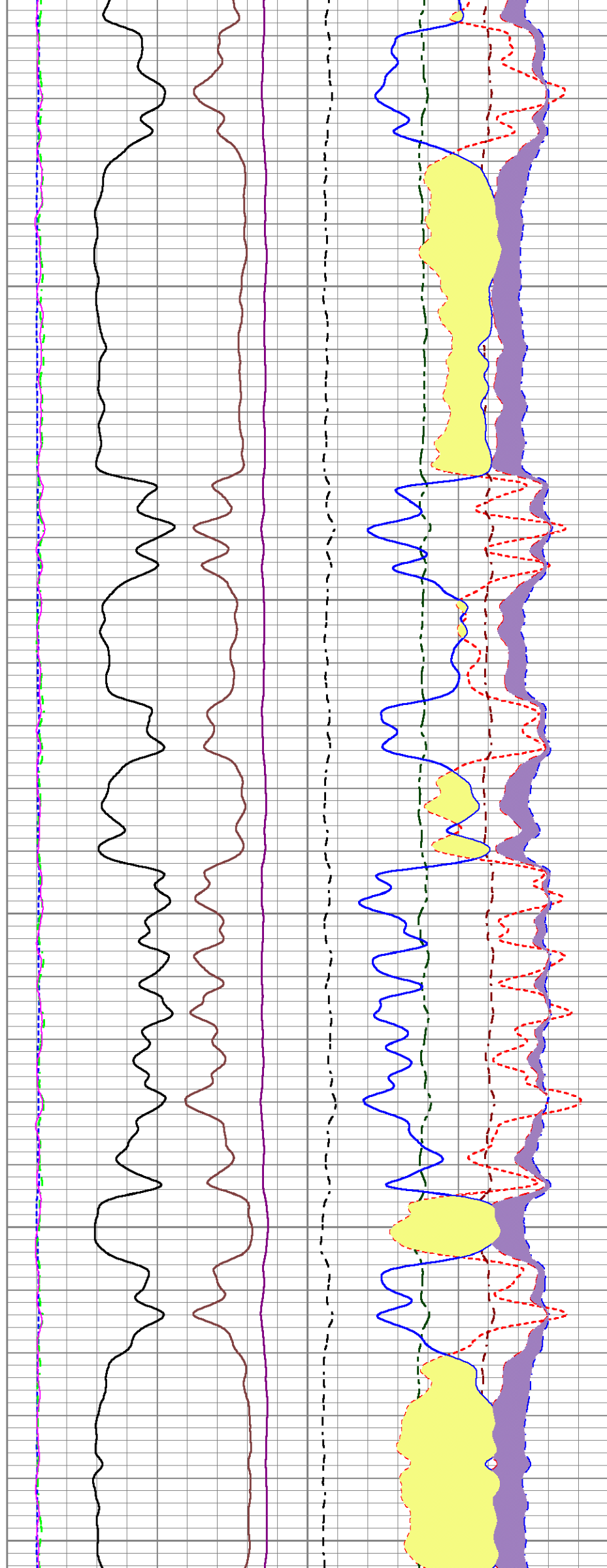
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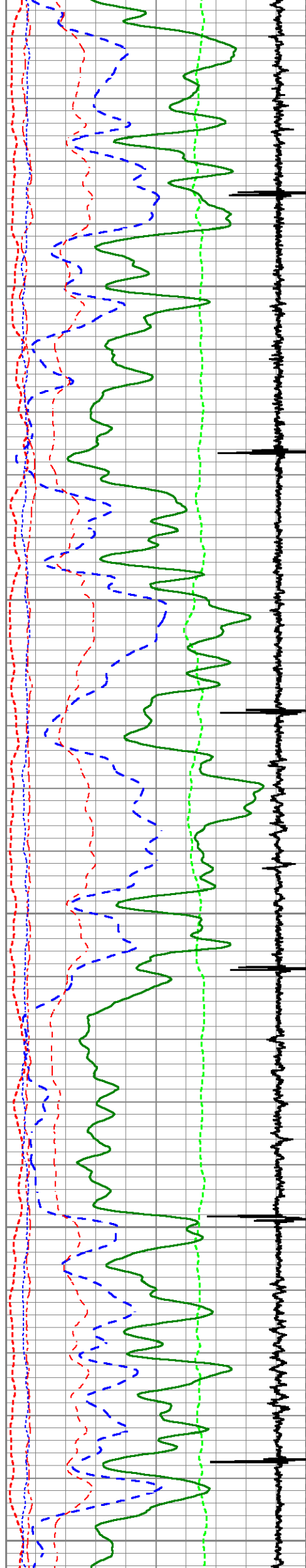
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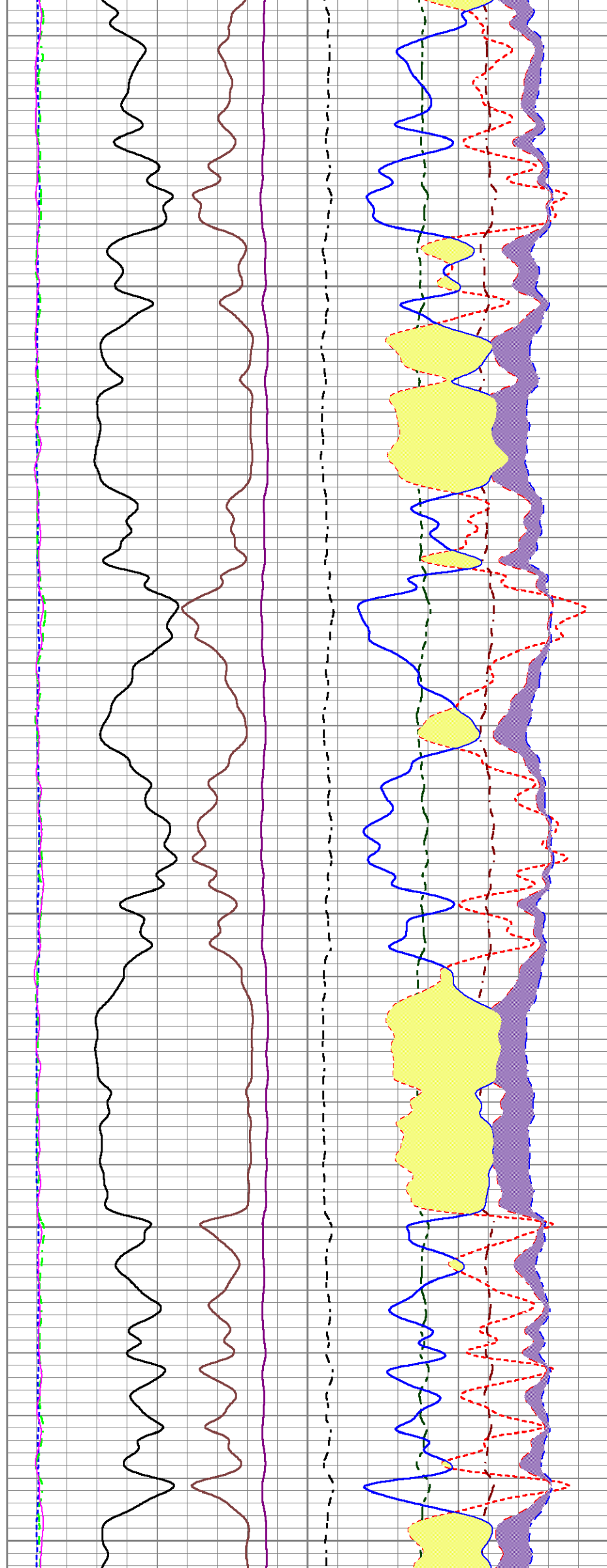
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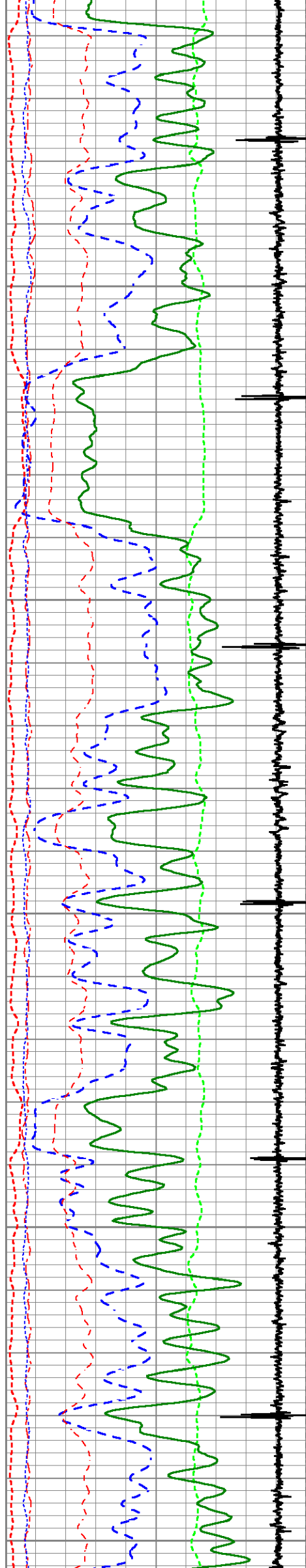
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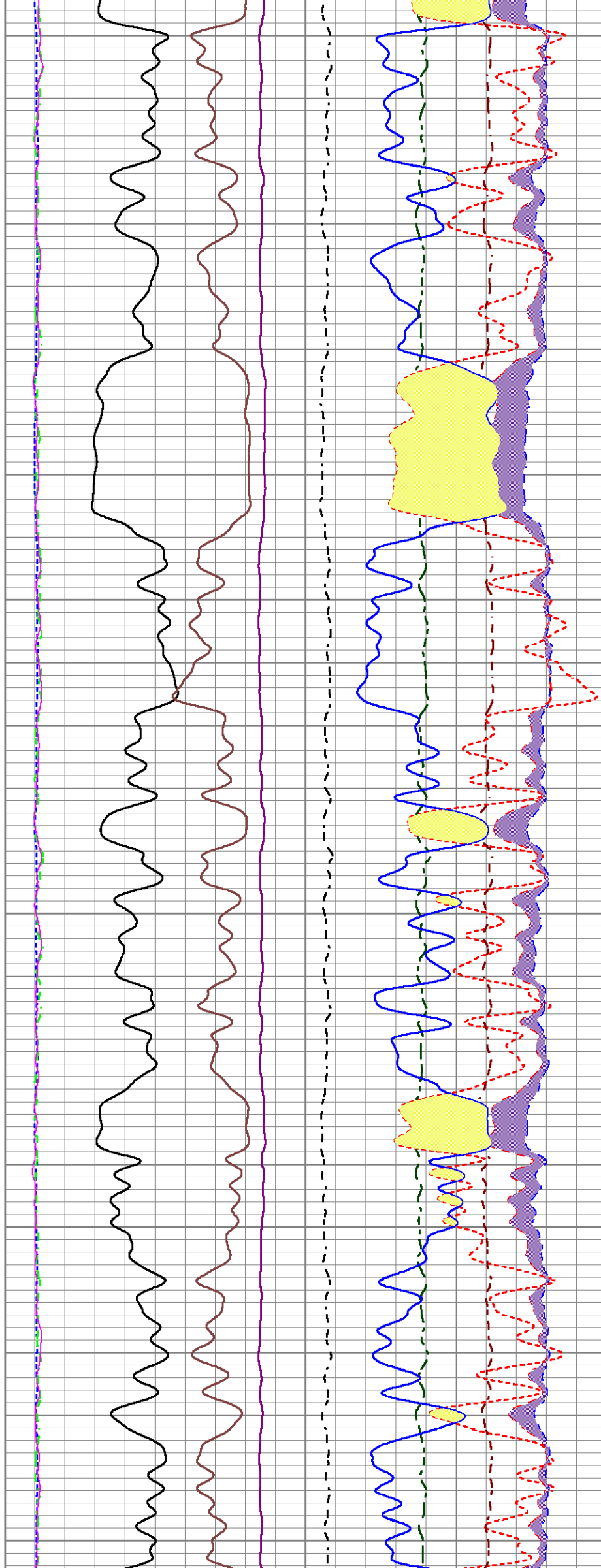
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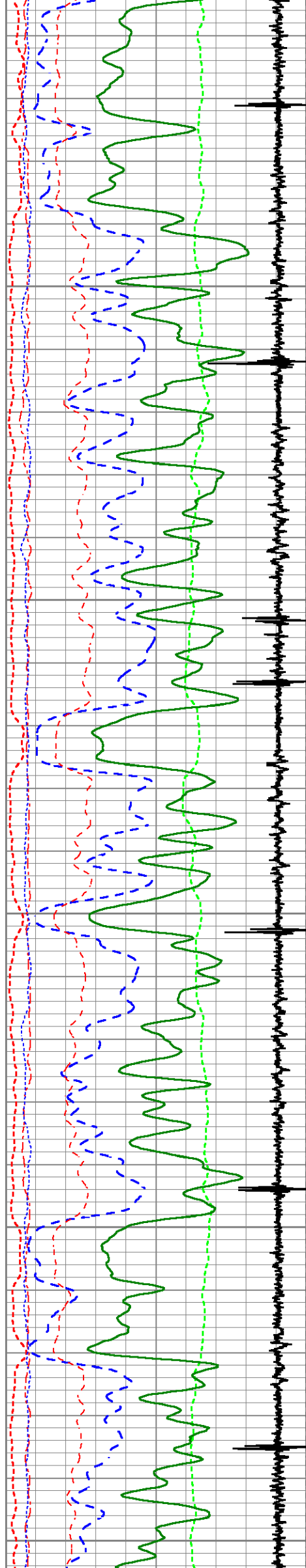
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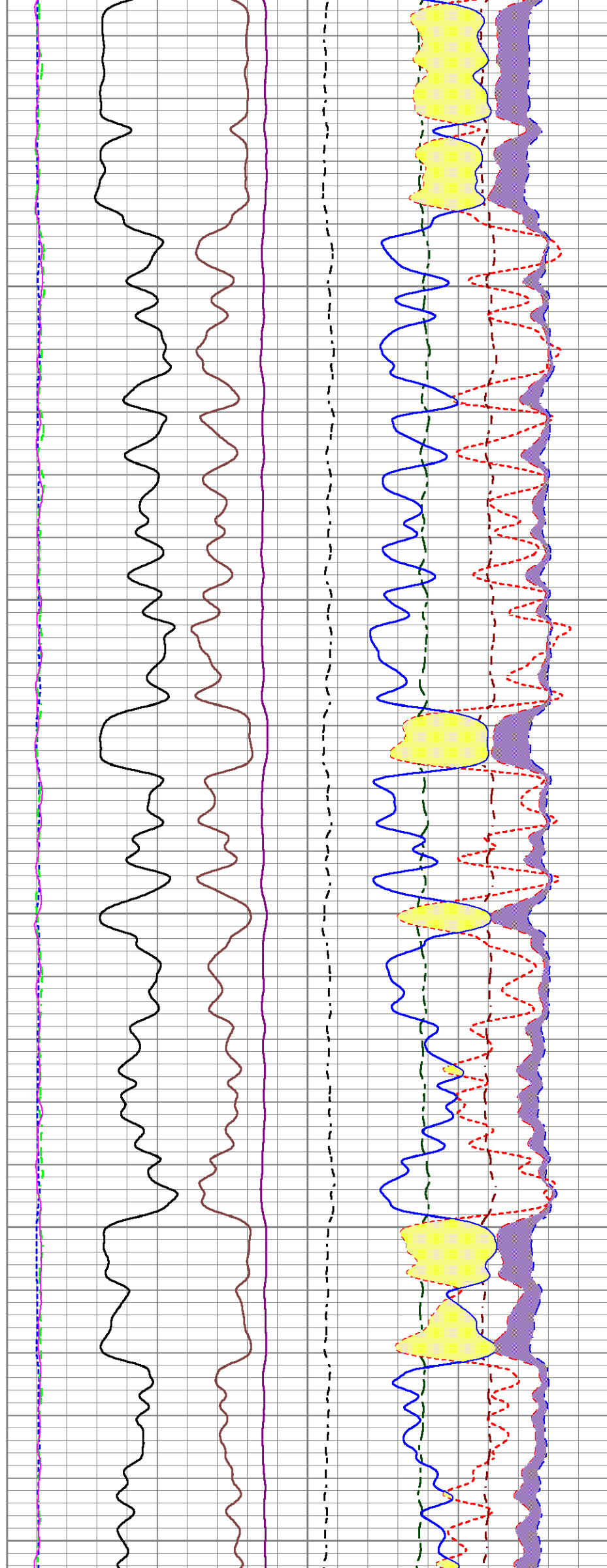
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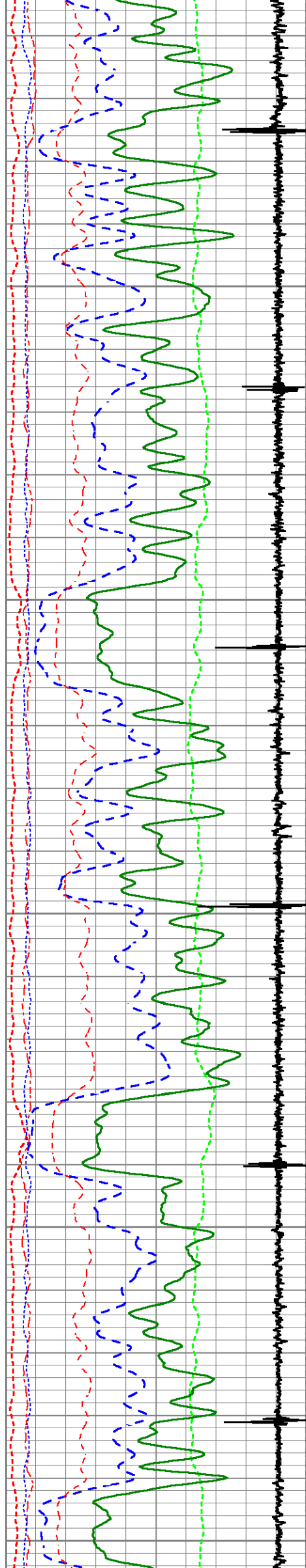
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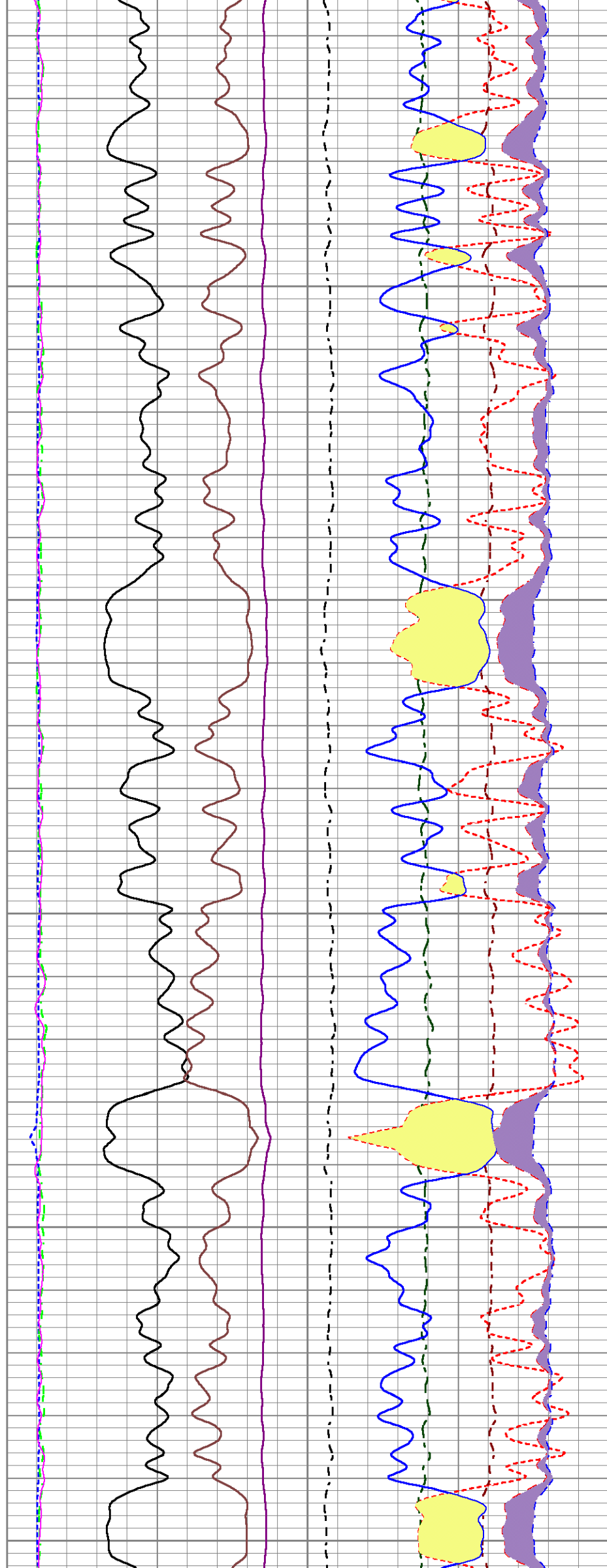
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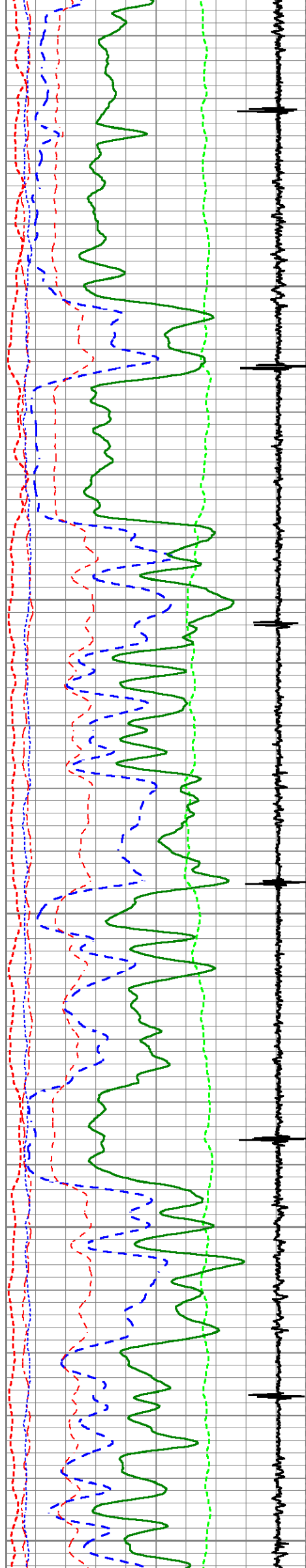
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6000

6050





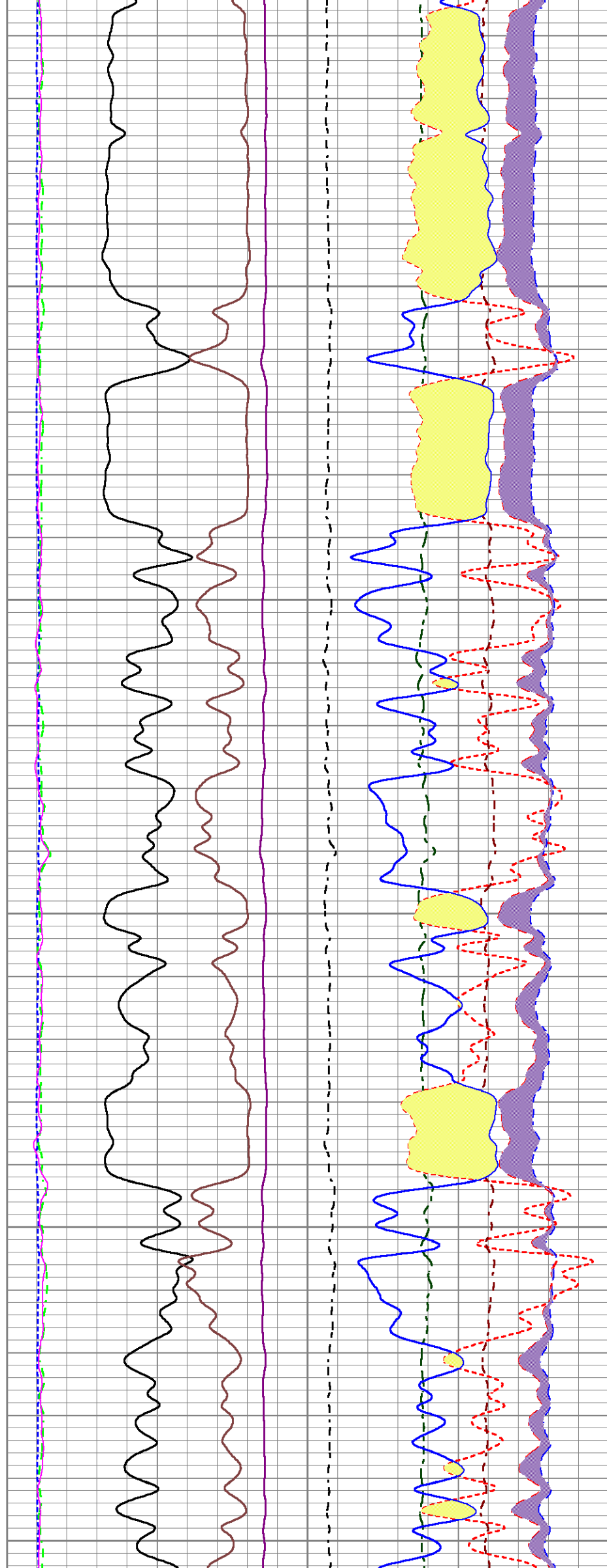
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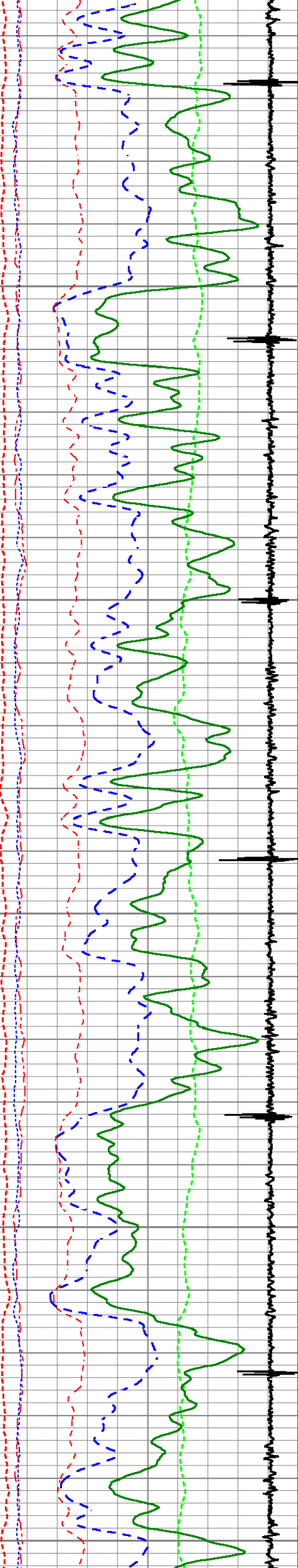
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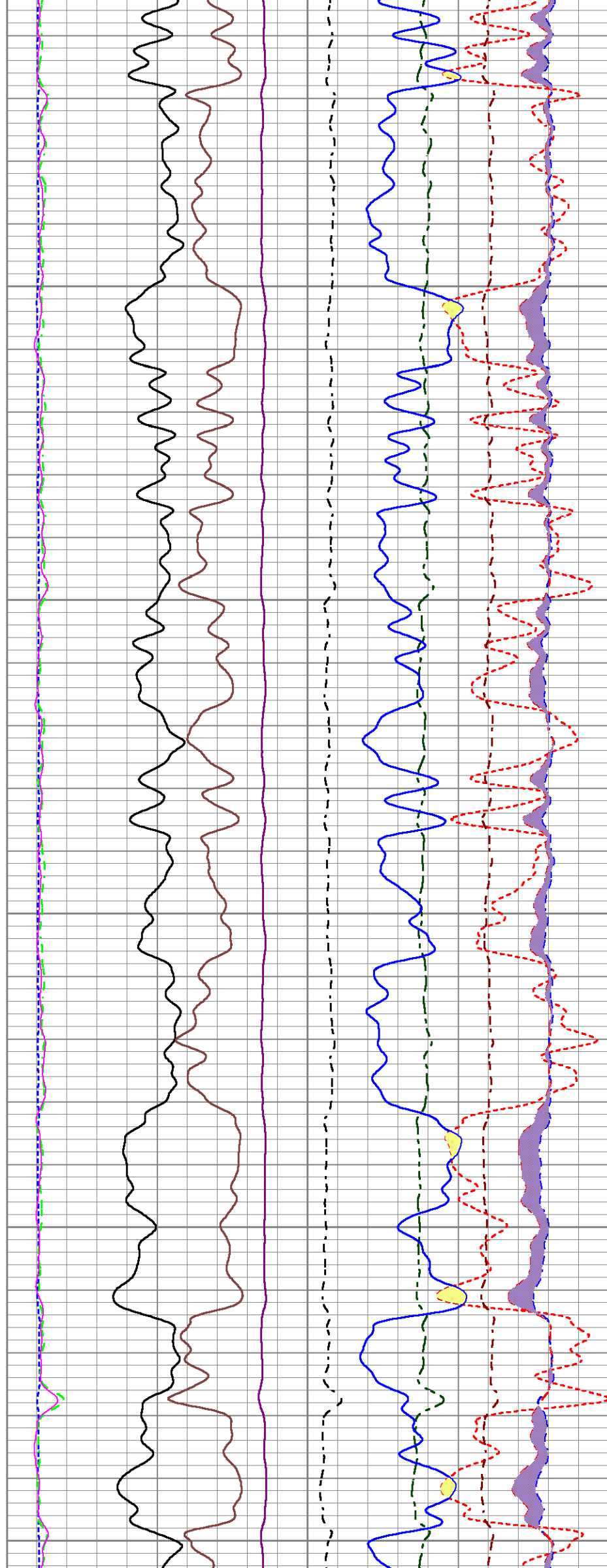
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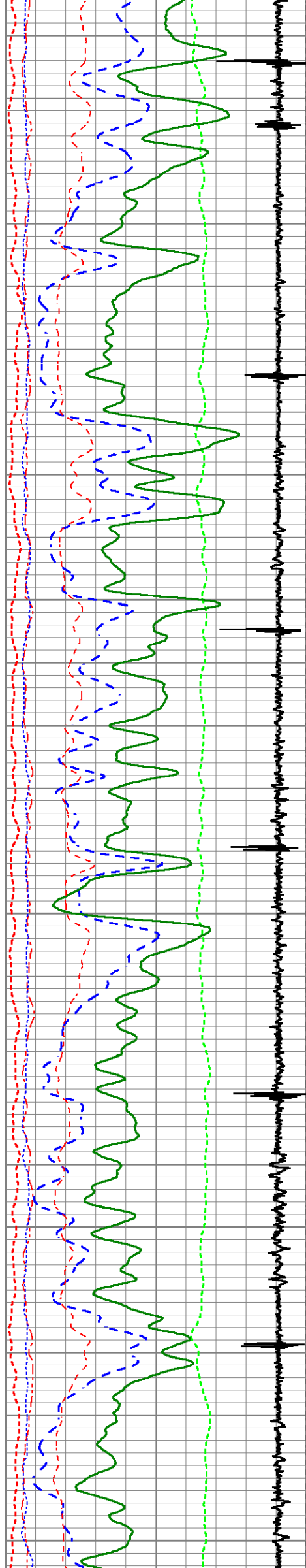
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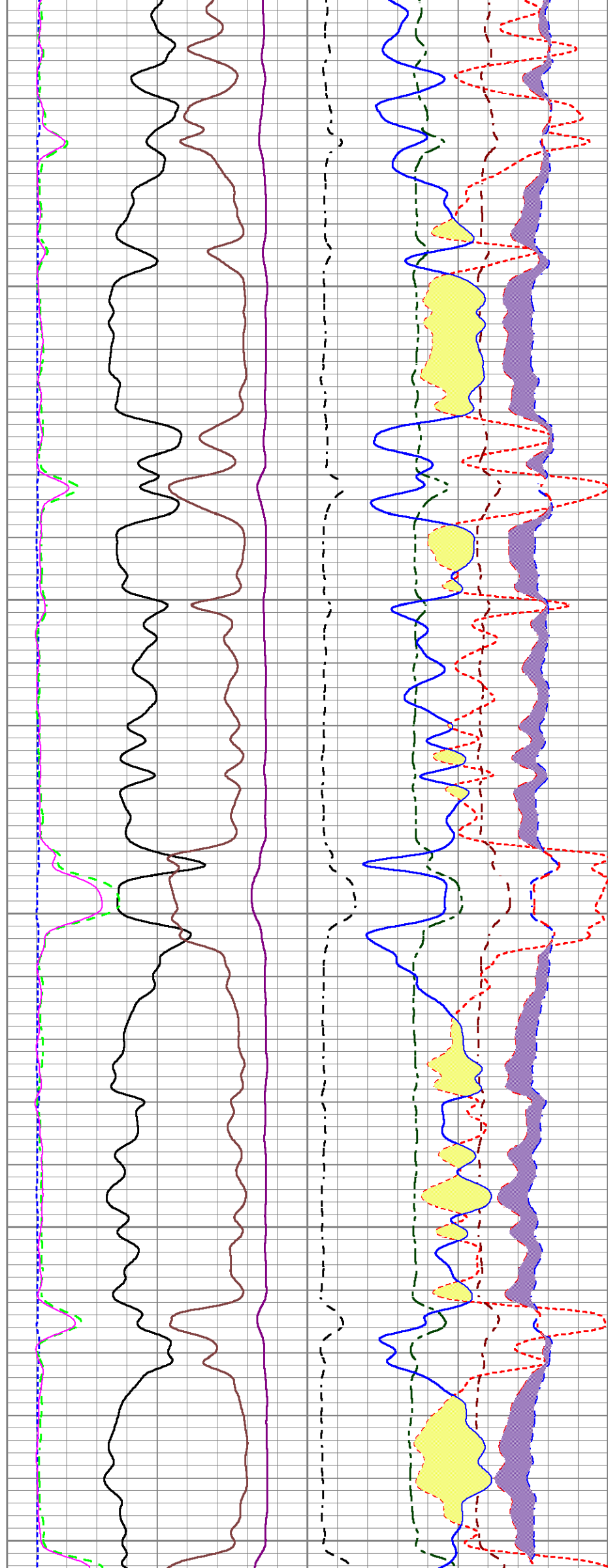
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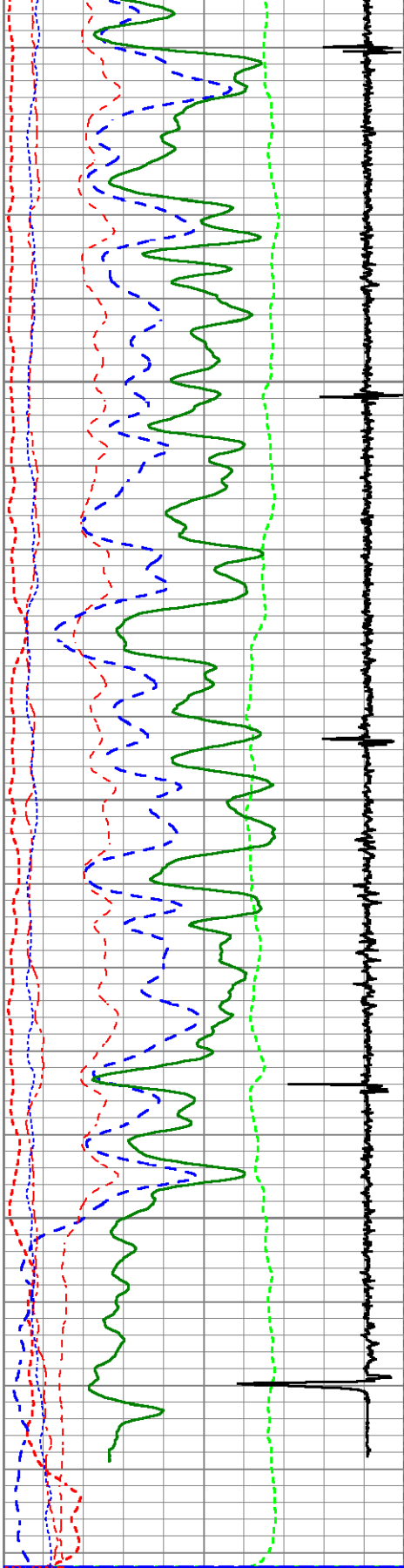
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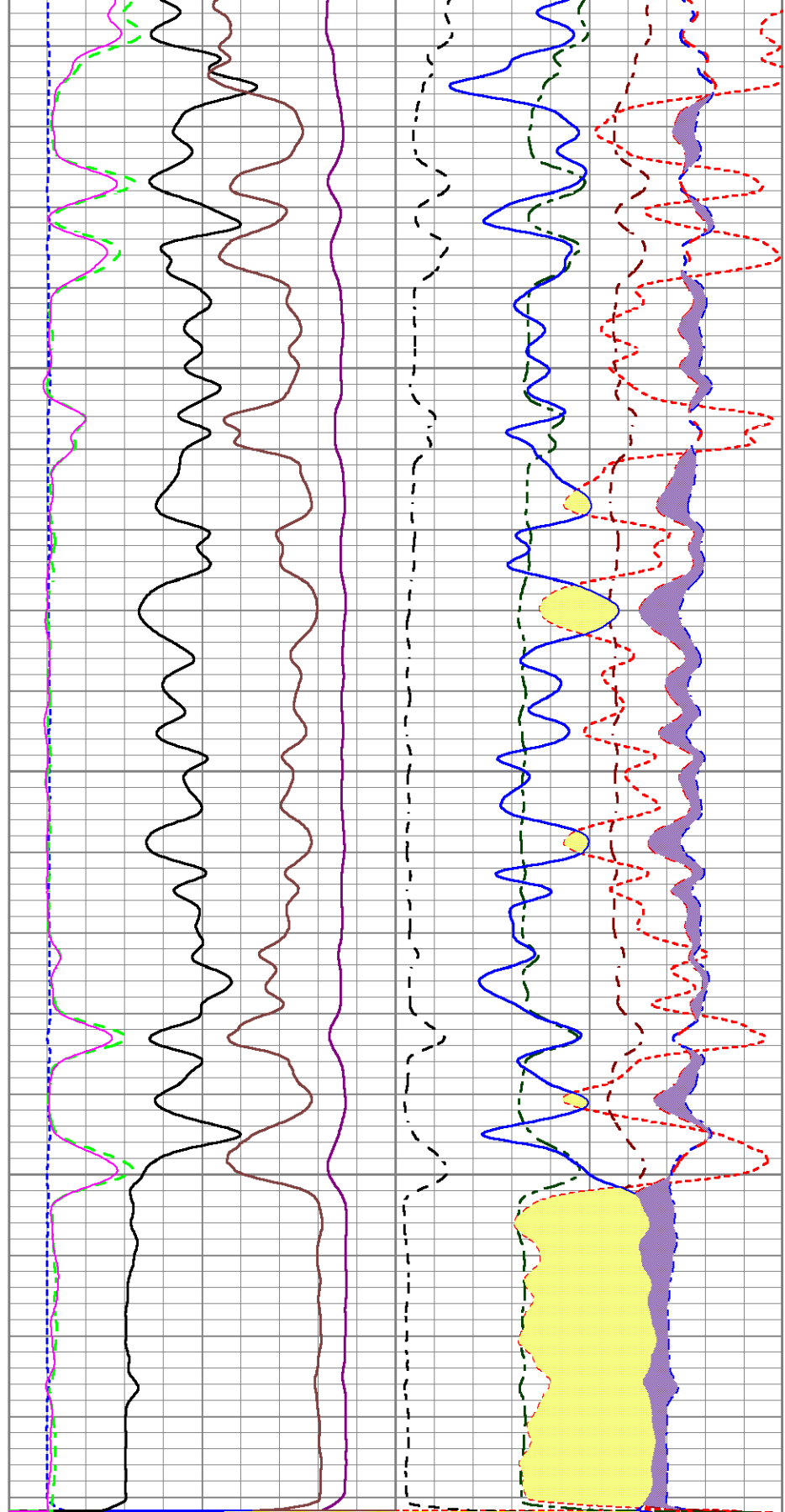
6900

6950

7000

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

TENSION 0 (lb1800



0	RATIO (RNF)				1
<hr style="border-top: 1px dashed red;"/>					
60	SGIN				0
0	RIN	9	60000	Near Counts (NCAP)	0
<hr style="border-top: 1px dashed blue;"/>					
0	RICF	6	60000	Far Counts (FCAP)	0
<hr style="border-top: 1px dashed red;"/>					
0	H YIELD (YH2)	1	100000	FAR INTEL CT (FSIN)	0
<hr style="border-top: 1px dashed green;"/>					
0	H YIELD (YH1)	1	10000	(NEAR INTEL CT (NSIN)	0
<hr style="border-top: 1px dashed green;"/>					
0.9	PHIT ()	-0.1	ET INL NEAR (NNII		
	INOX2		50000	-1000	

-1500 1500

MAIN PASS

HALLIBURTON

5" = 100'

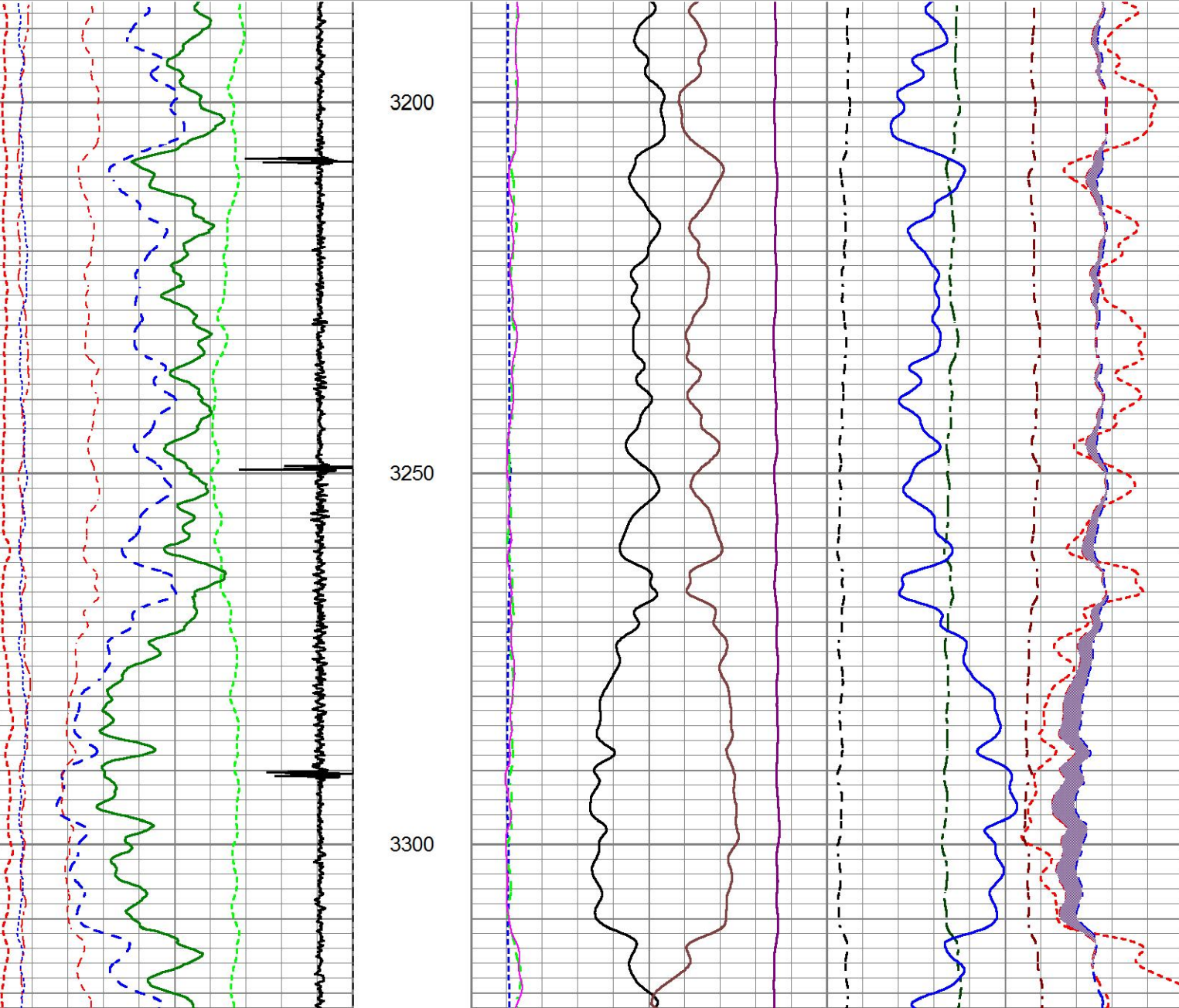
REPEAT PASS

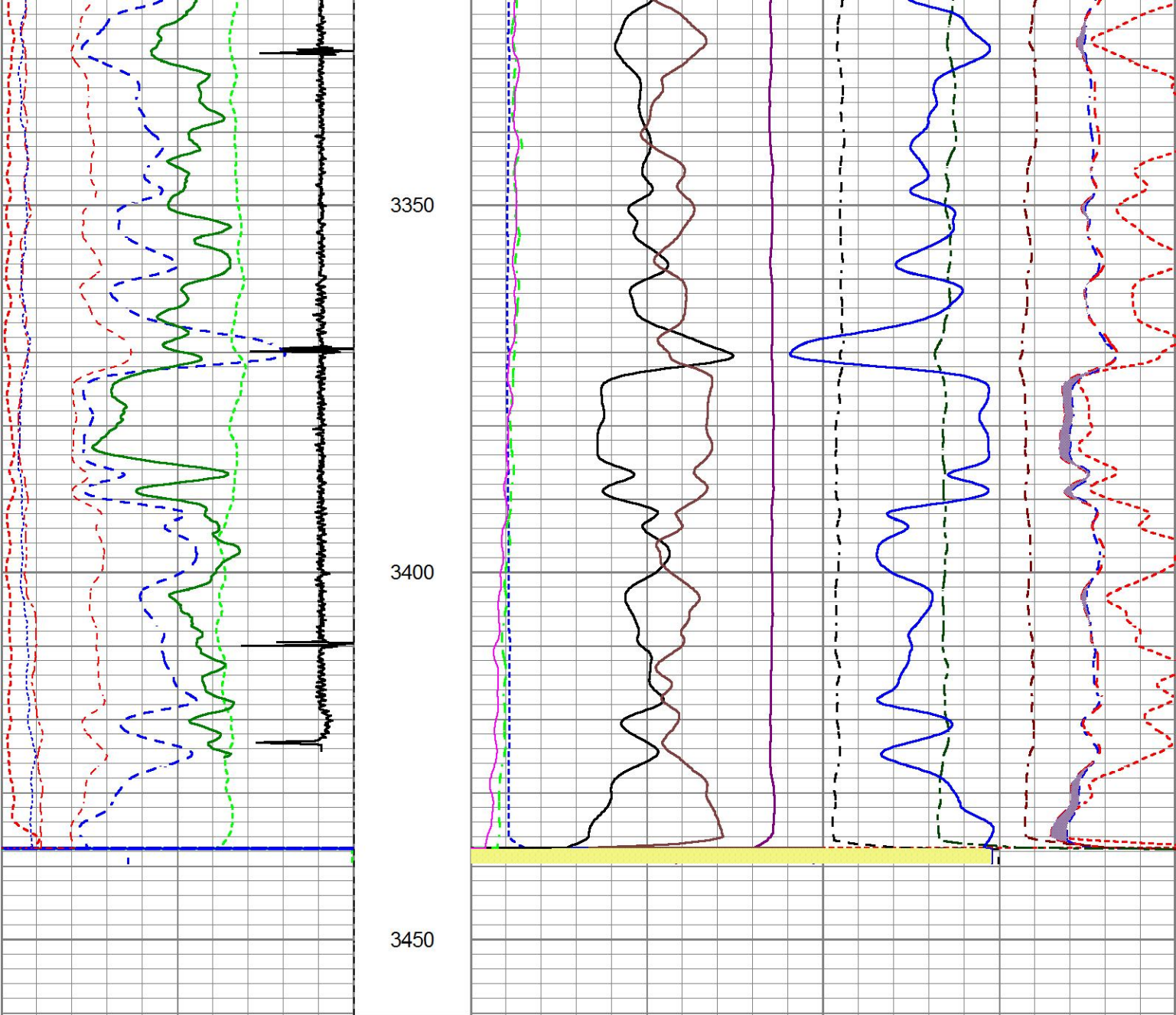
HALLIBURTON

5" = 100'

Database File g:\ursa\b&v 33a-07-07-95\33a.db
Dataset Pathname RPT
Presentation Format IRMTE_~1
Dataset Creation Mon Mar 27 20:17:29 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	





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 (NNII)
0	IN FIT ERR (CFTR2) FAR	1			INOX2	50000	-1000
					-1500	1500	

REPEAT PASS

HALLIBURTON

5" = 100'

Log Variables

Database:g:\ursa\b&v 33a-07-07-95\33a.db
Dataset field/well/run1/MAIN/_vars_


Top - Bottom

BHSAL1	BHSAL2	BHTEMP_Src	BITSIZE in	BORSAL kppm	BOTTEMP degF	CASED?	CASEOD in
1	0	TEMP	7.875	150	200	Yes	4.5
CASETHCK in	CASEWGHT lb/ft	LIRISHFTF	LIRISHFTN	LTH	MAXAMPL mV	MINAMPL mV	MINATTN db/ft
0.25	11.6	0	0	Sandstone	82	1	0.8

MSGGN 1	MudWgt lb/gal 8.4	PERFS 0	POROS1 1	POROS2 0	PPT usec 0	RHO�F 0.25	SO in 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 33a-07-07-95\33a.db	
Dataset Pathname	MAIN	
Dataset Creation	Mon Mar 27 20:53:19 2017	
Cement Bond Log Shop Calibration Report		
Serial-Model:	11836468-A	
Calibration Performed:	Sun Mar 26 19:34:08 2017	
Free Pipe Calibration		
	Measured	Units
TT	245.6	usec
Amplitude	408.0	mV
Log Base Line	19.3	mV
Calibration References and Gain		
	Value	Units
Name		
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 RmtNFwMcsPI RmtCommFWa	14.70 14.70 14.70		X-OVER-SondexxGo Sondex Box x Go Pin Cross Over	0.31	1.69	1.00	
			CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	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: 33a.db: field/well/run1/MAIN Total length: 39.43 ft Total weight: 293.50 lb O.D.: 3.13 in							

Well	B&V 33A-07-07-95		
Field	WILDCAT		
County	GARFIELD	State	CO
HALLIBURTON	RESERVOIR MONITORING TOOL - ELITE		