

BAKER HUGHES



(PRELIMINARY RESULTS)

Baker Atlas

FILE NO: _____ COMPANY: **SIERRA GEOTHERMAL POWER, INC.**
 WELL: **ALUM 25-29**
 APN NO: **27-008-90074** FIELD: **ALUM**
 COUNTY: **ESMERALDA** STATE: **NEVADA**

Var. 3.87 LOCATION: **SHE: 2235.18' FSL & 938.11' FWL**
SW/C
 TIGHT HOLE SEC: **29** TRIP: **1N** RGE: **38.5 E**
 OTHER SERVICES: **HOIL ZDL/CM XMAC TEMP**

PERMANENT DATUM: **G.L. _____ ELEVATION: 4803.57 FT**
 LOG MEASURED FROM: **K.B. _____ 18.0 FT ABOVE P.D.**
 DRILL MEAS. FROM: **K.B. _____**
 ELEVATIONS: **KB 4919.57 FT**
DF _____
OL 4803.57 FT

DATE	25-NOV-2008	
RUN	TRIP	5
SERVICE ORDER	5728996	
DEPTH DRILLER	3314 FT	
DEPTH LOGGER	3311 FT	
BOTTOM LOGGED INTERVAL	3308 FT	
TOP LOGGED INTERVAL	2280 FT	
CASING DRILLER	10.75 IN @ 2300 FT	
CASING LOGGER	2280 FT	
BIT SIZE	9.875 IN	
TYPE OF FLUID IN HOLE	LSD	
DENSITY	8.8 LB/G	40 S
PH	9.7	8.03
SOURCE OF SAMPLE	FLUORINE	
RM AT MEAS. TEMP.	0.885 G/HM	0 67.72 DEGF
RM AT MEAS. TEMP.	0.826 G/HM	0 87.54 DEGF
RM AT MEAS. TEMP.	1.018 G/HM	0 88.90 DEGF
SOURCE OF RMF	MEASURED	MEASURED
RM AT BHT	0.282 G/HM	0 227 DEGF
TIME SINCE CIRCULATION	31 HOURS	
MAX. RECORDED TEMP.	227 DEGF	
EQUIP. NO.	IN-4232	FALLON, NV
RECORDED BY	C. PEAVY	
WITNESSED BY	J. HANBLIN	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 2 TRIP 5 : **CVOL WAS COMPUTED USING 8.625" CASING (BVOL AND CVOL UNITS ARE IN CUBIC FEET) CALIPER WAS VERIFIED IN CASING.**

A MAXIMUM READING THERMOMETER WAS RUN AS WELL AND THE MAXIMUM TEMPERATURE IT REACHED WAS: 227 DEGF

THANK YOU FOR CHOOSING BAKER ATLAS!
CREW: R. DANKLEFSEN AND J. HAYCOCK
RIG: ENSIGN 561

EQUIPMENT DATA					
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	5	PWR	4430KB	370550	FBFF
2	5	SNPL	3844KD	10201370	FBFF
2	5	TRM	3681XA	10203010	FBFF
2	5	WTS	3514KB	10200389	FBFF
2	5	SEZ	1328VA	10203000	FBFF

2	5	CRBT	4401KB	10080238	FREE
2	5	STAR_PWR	1022PA	10565885	FREE
2	5	STAR_EA	1038EA	10402331	FREE
2	5	STAR_MA	4238MA	1173888	BAD-DEVICE
2	5	ISO	3822A	10348282	FREE
2	5	KALIT	3838A	10200308	FREE
2	5	GR	1671EB/ME	154383/183418	CENTRALIZED

MAIN LOG 25"/100FT SCALE

ECLIPS 6.01 Feb 21, 2008
Updates: 1,43

Thu Nov 26 00:40:48 2009

Perplf /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/575998/k857m03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2274.500 ft BOTTOM DEPTH: 3315.884 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
SPEED	FILTER ()	medium	(1)	TOP	BOTTOM
	FILTER (.h)	medium	(1)	"	"
TENSION	FILTER ()	medium	(1)	"	"
	FILTER (.h)	medium	(1)	"	"
GR	FILTER ()	medium	(1)	"	"
	FILTER (.h)	medium	(1)	"	"
	FILTER (.l)	medium	(1)	"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	9.875	in	TOP	BOTTOM

STAR/EART PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
PAD TYPE	STAR	1028BA - 8.25 in.		TOP	BOTTOM
	OTHER PAD	NO OTHER PAD		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:AZSTQH	AZSTQH	Nov 25 22:04:12 2009	AZIMUTH OF REFERENCE PAD
F1:BHTAQH	BHTA.H	Nov 25 22:04:12 2009	REFLECTANCE PEAK VOLTS
F1:BKRGQH	BKRGQH	Nov 25 22:04:12 2009	BUCKER DRIVER VALUE
F1:DEVSTQH	DEVSTQH	Nov 25 22:04:12 2009	DEVIATION
F1:GR	GR	Nov 25 22:04:12 2009	GAMMA RAY
F1:P18TNQH	P18TNL_RES.H	Nov 25 22:04:12 2009	PACKED PAD 1 BLOCK (BUTTONS 1-24)
F1:P28TNQH	P28TNL_RES.H	Nov 25 22:04:12 2009	PACKED PAD 2 BLOCK (BUTTONS 1-24)
F1:P38TNQH	P38TNL_RES.H	Nov 25 22:04:12 2009	PACKED PAD 3 BLOCK (BUTTONS 1-24)
F1:P48TNQH	P48TNL_RES.H	Nov 25 22:04:12 2009	PACKED PAD 4 BLOCK (BUTTONS 1-24)
F1:P58TNQH	P58TNL_RES.H	Nov 25 22:04:12 2009	PACKED PAD 5 BLOCK (BUTTONS 1-24)
F1:P68TNQH	P68TNL_RES.H	Nov 25 22:04:12 2009	PACKED PAD 6 BLOCK (BUTTONS 1-24)
F1:PADGQH	PADGQH	Nov 25 22:04:12 2009	PAD GAIN CODE
F1:RAD1QH	RAD1QH	Nov 25 22:04:12 2009	RADIUS, TOOL AXIS TO PAD 1 FACE
F1:RAD2QH	RAD2QH	Nov 25 22:04:12 2009	RADIUS, TOOL AXIS TO PAD 2 FACE
F1:RAD3QH	RAD3QH	Nov 25 22:04:12 2009	RADIUS, TOOL AXIS TO PAD 3 FACE
F1:RAD4QH	RAD4QH	Nov 25 22:04:12 2009	RADIUS, TOOL AXIS TO PAD 4 FACE
F1:RAD5QH	RAD5QH	Nov 25 22:04:12 2009	RADIUS, TOOL AXIS TO PAD 5 FACE
F1:RAD6QH	RAD6QH	Nov 25 22:04:12 2009	RADIUS, TOOL AXIS TO PAD 6 FACE
F1:RBIT1	RBIT1	Nov 25 22:04:12 2009	BIT RADIUS 1

F1:RB114 RB114 Nov 25 22:04:12 2009
 F1:RBSTQH RBSTQH Nov 25 22:04:12 2009
 F1:SPD SPD Nov 25 22:04:12 2009
 F1:TEN TEN Nov 25 22:04:12 2009

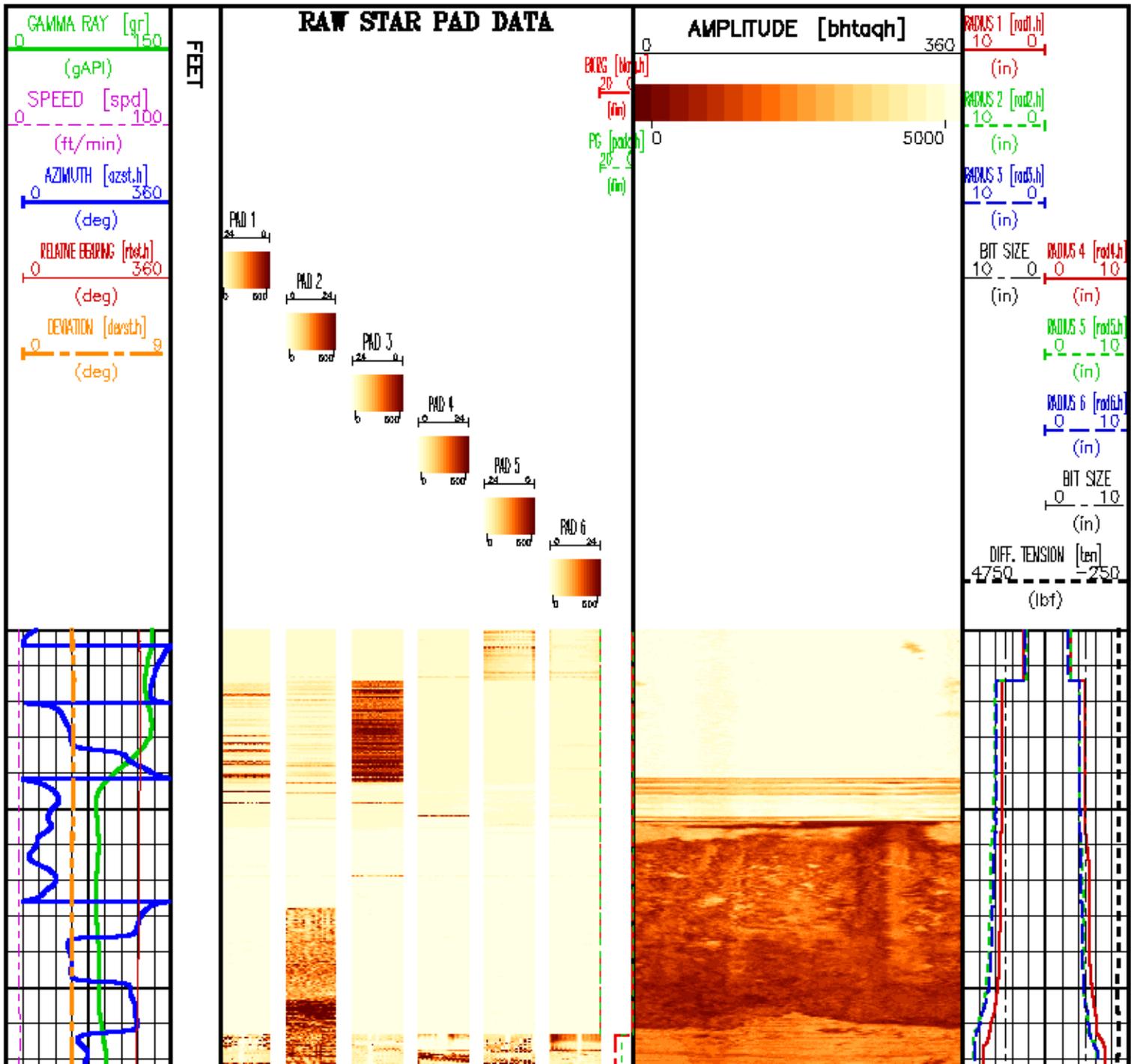
BIT RADIUS 4
 RELATIVE BEARING (RELATIVE TO HIGH SIDE OF BOREHOLE)
 SPEED
 DIFFERENTIAL TENSION

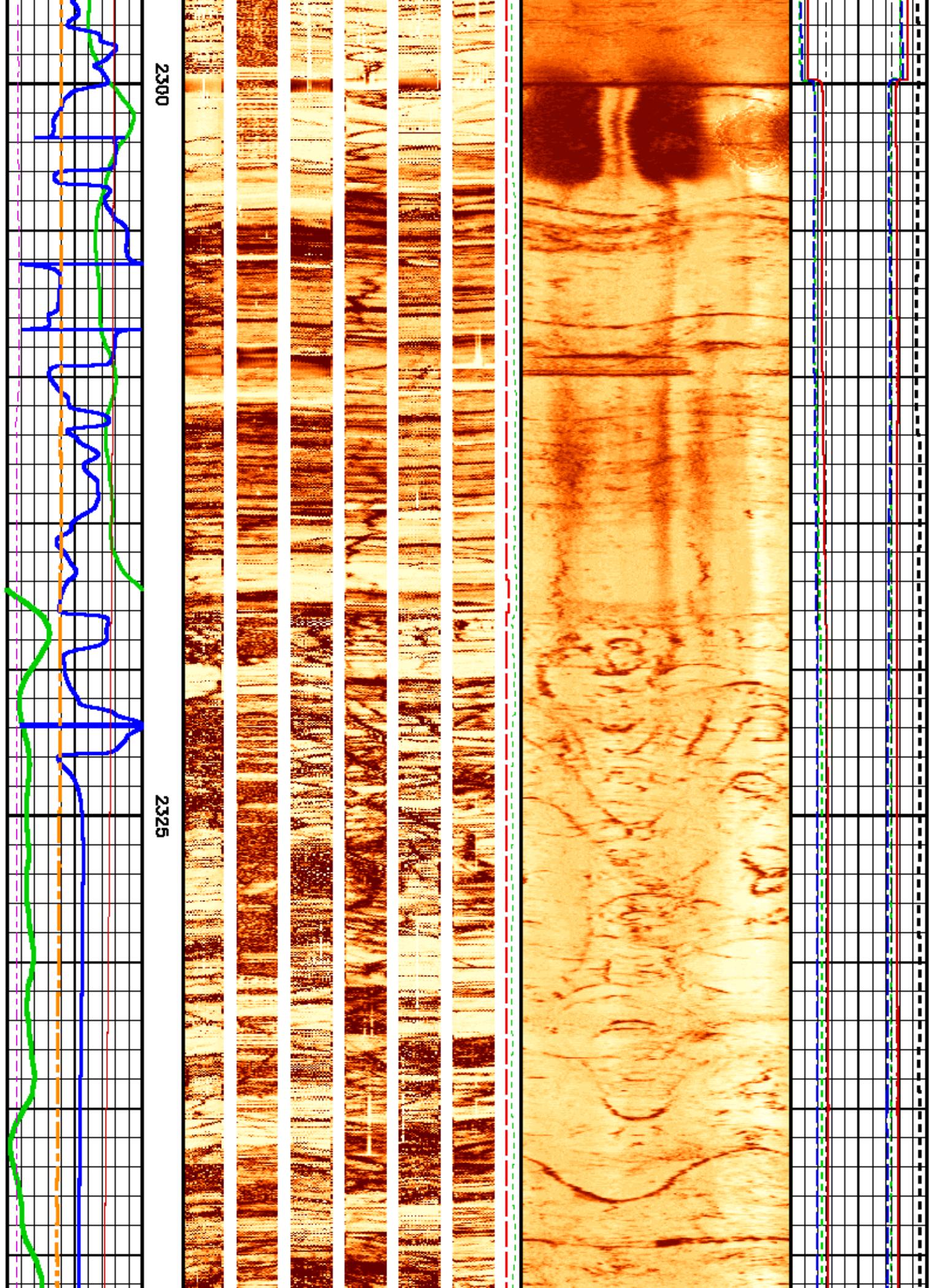
CURVE MEASURE POINT OFFSET

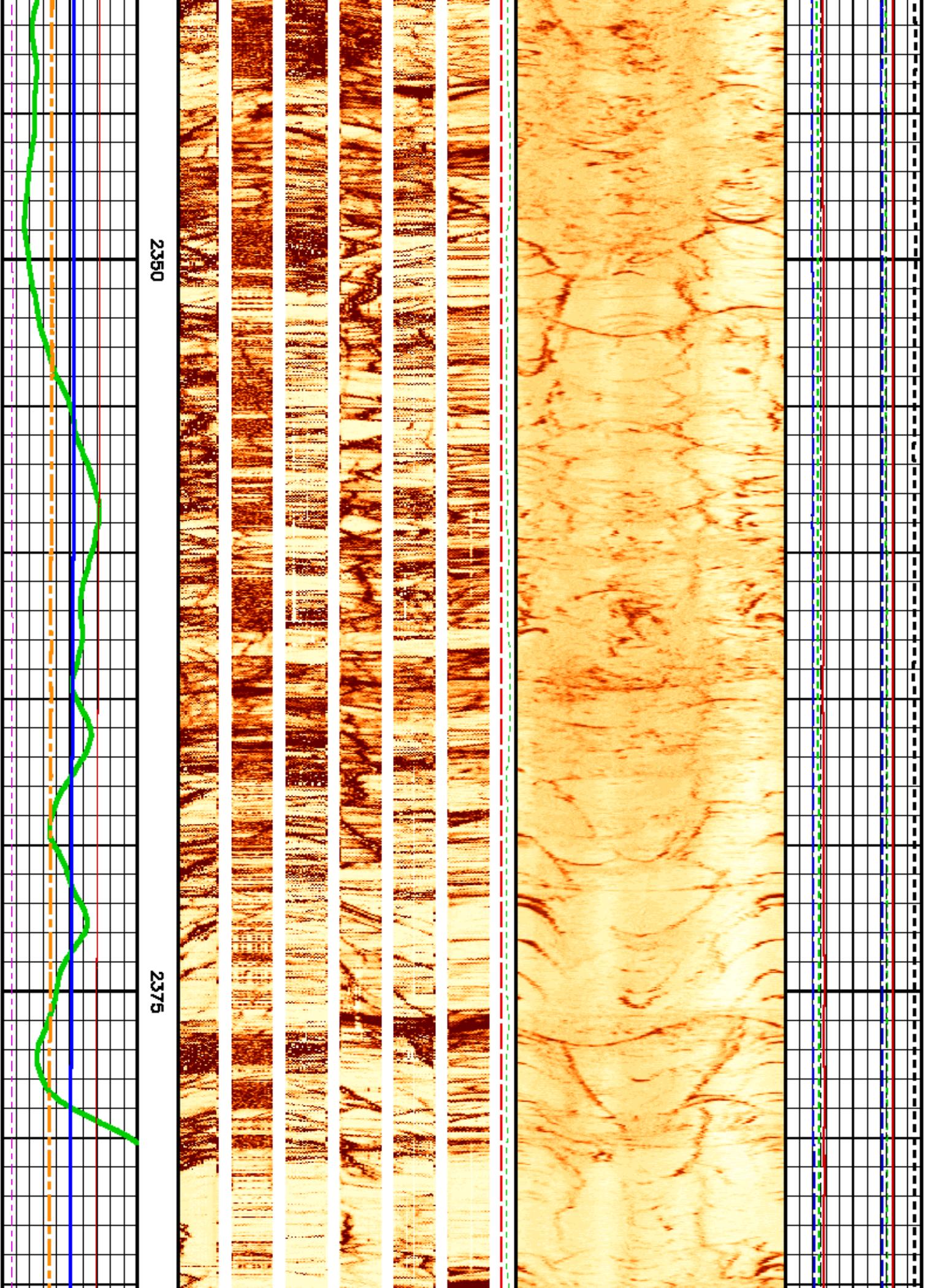
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AZSTQH	25.34	PADQH	25.34	RAD4QH	25.34	RB114	25.25
BKRGQH	25.34	RAD1QH	25.34	RAD5QH	25.34	RBSTQH	25.34
DEVSTQH	25.34	RAD2QH	25.34	RAD6QH	25.34	SPD	0.00
GR	65.00	RAD3QH	25.34	RB11	25.25	TEN	0.00

Presentation : cpu1:/data/575986/STAR_CBIL_MAIN.pdf [25"/100' Scale]
 Plot Interval : 2285 - 3313.25 Feet

Data File 1 : F1 : cpu1:/data/575986/8_STAR-CBIL_MAIN.dxf
 Created On : Nov 25 22:04:12 2009
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 Well : ALUM 25-29
 Field : ALUM
 File Interval : 2196.75 - 3313.25 Feet
 Oct : k837m

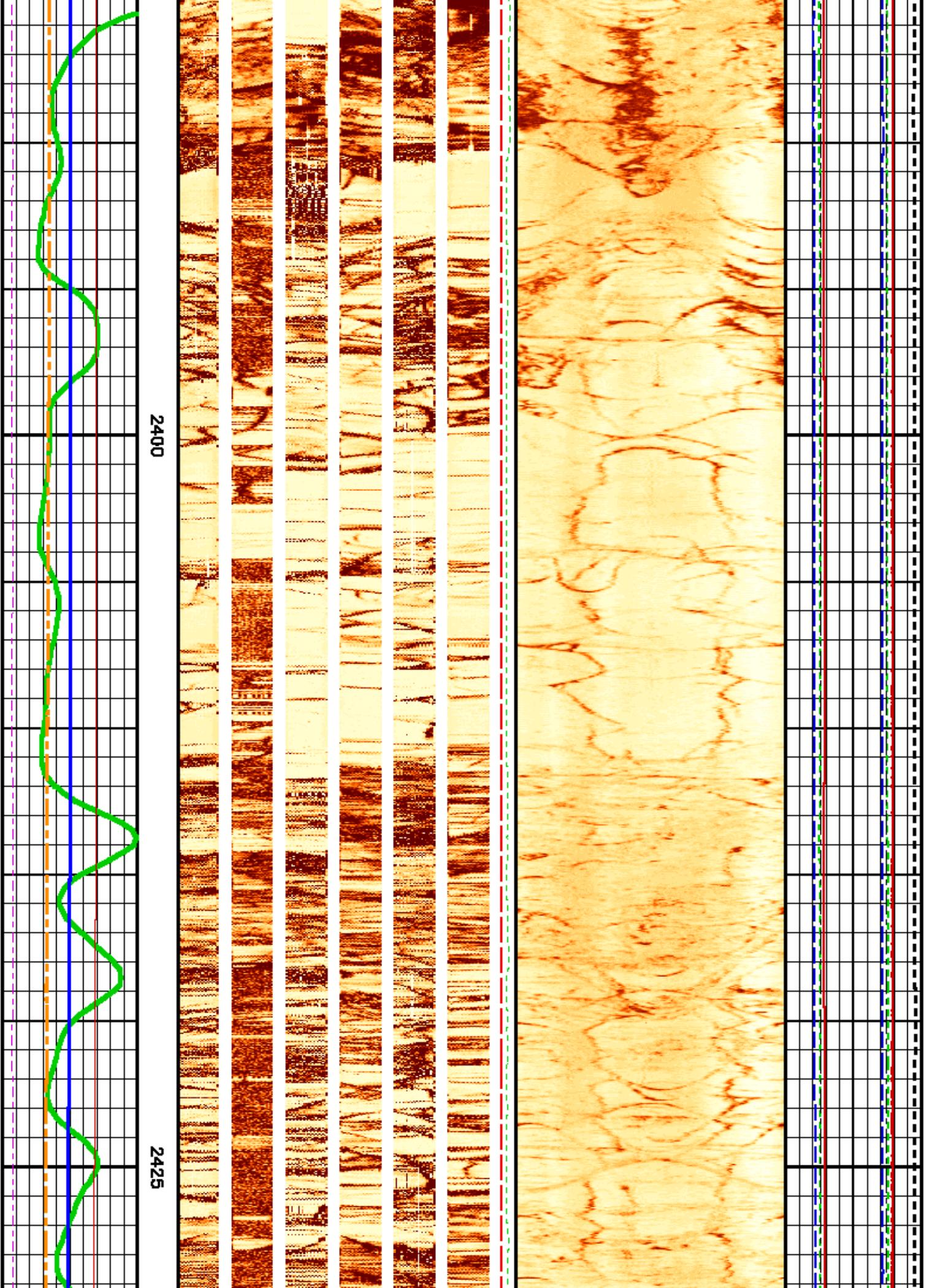






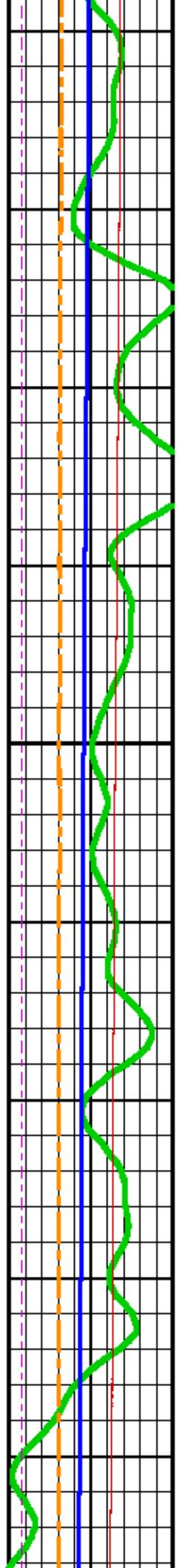
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2375

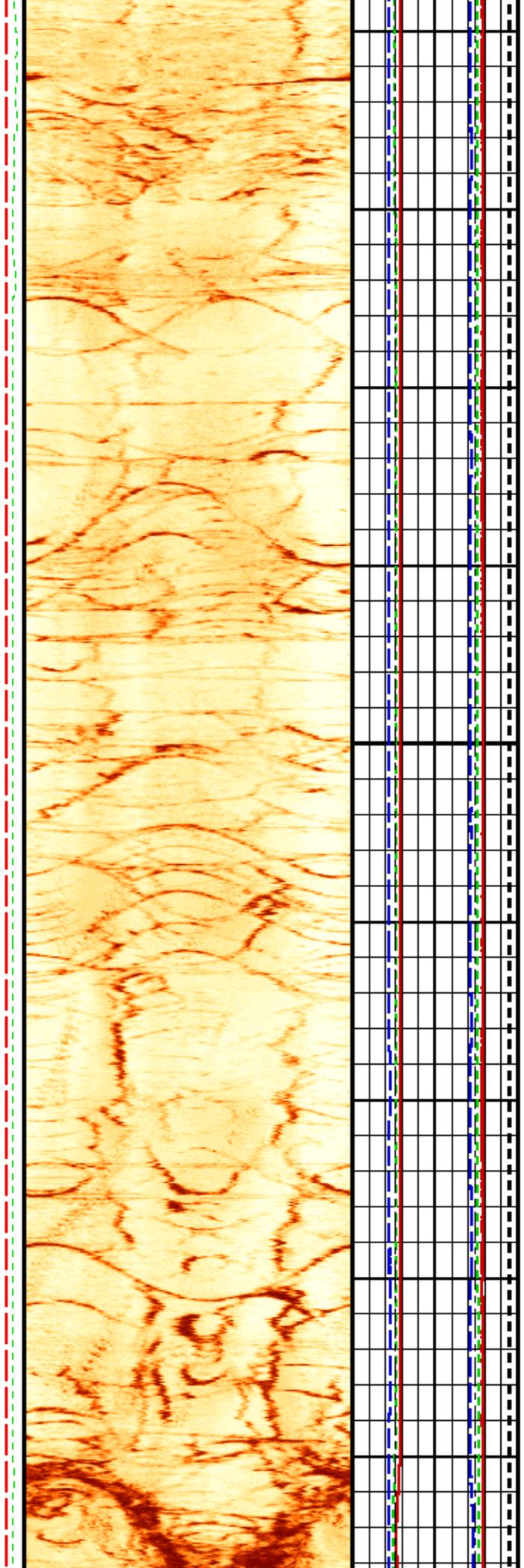
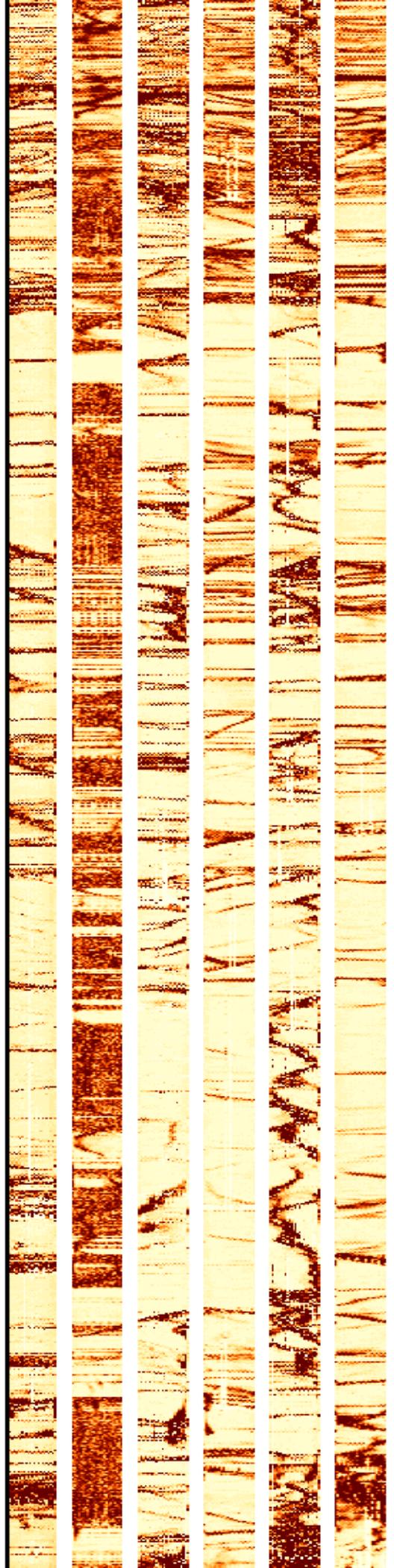


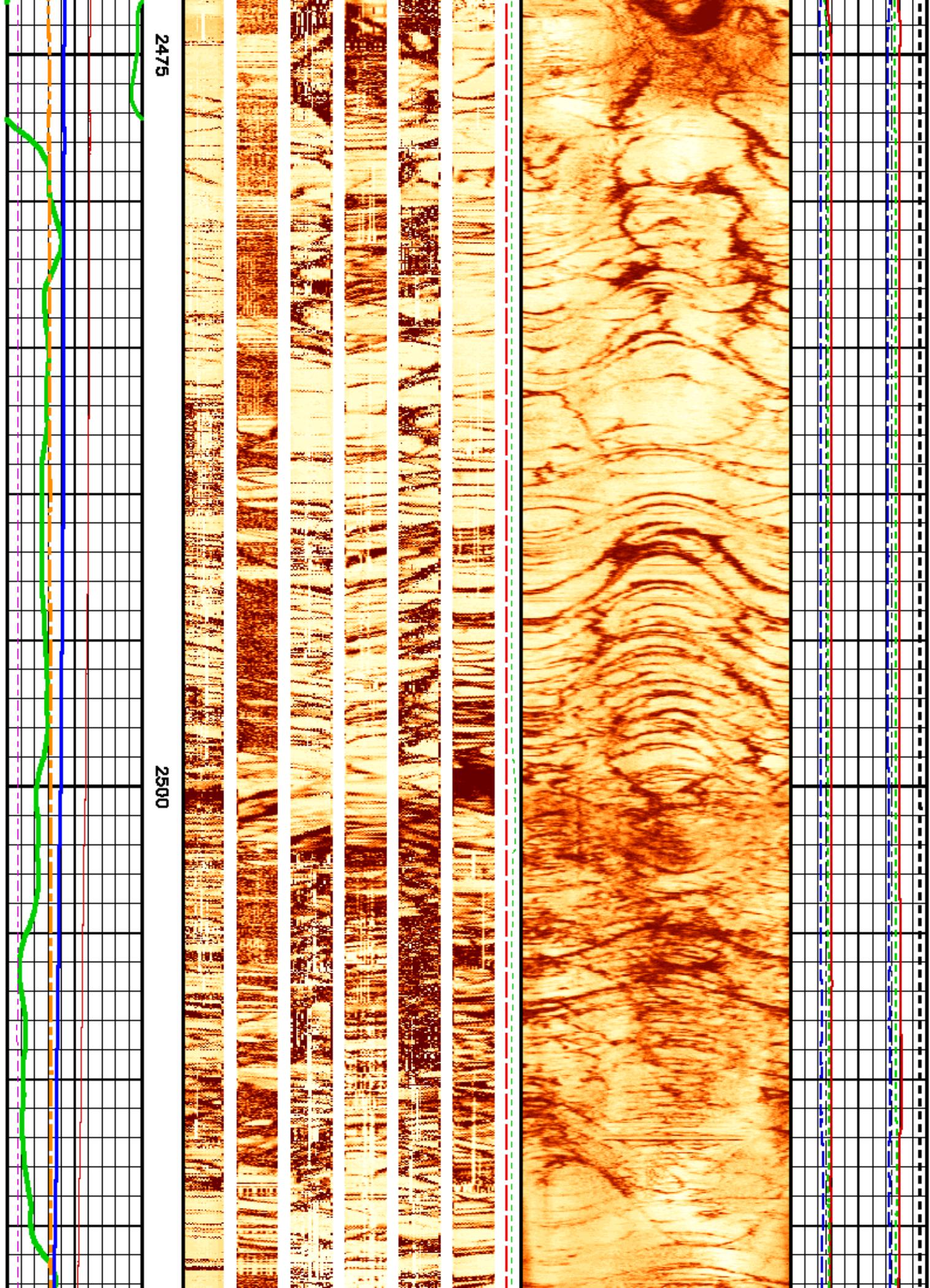
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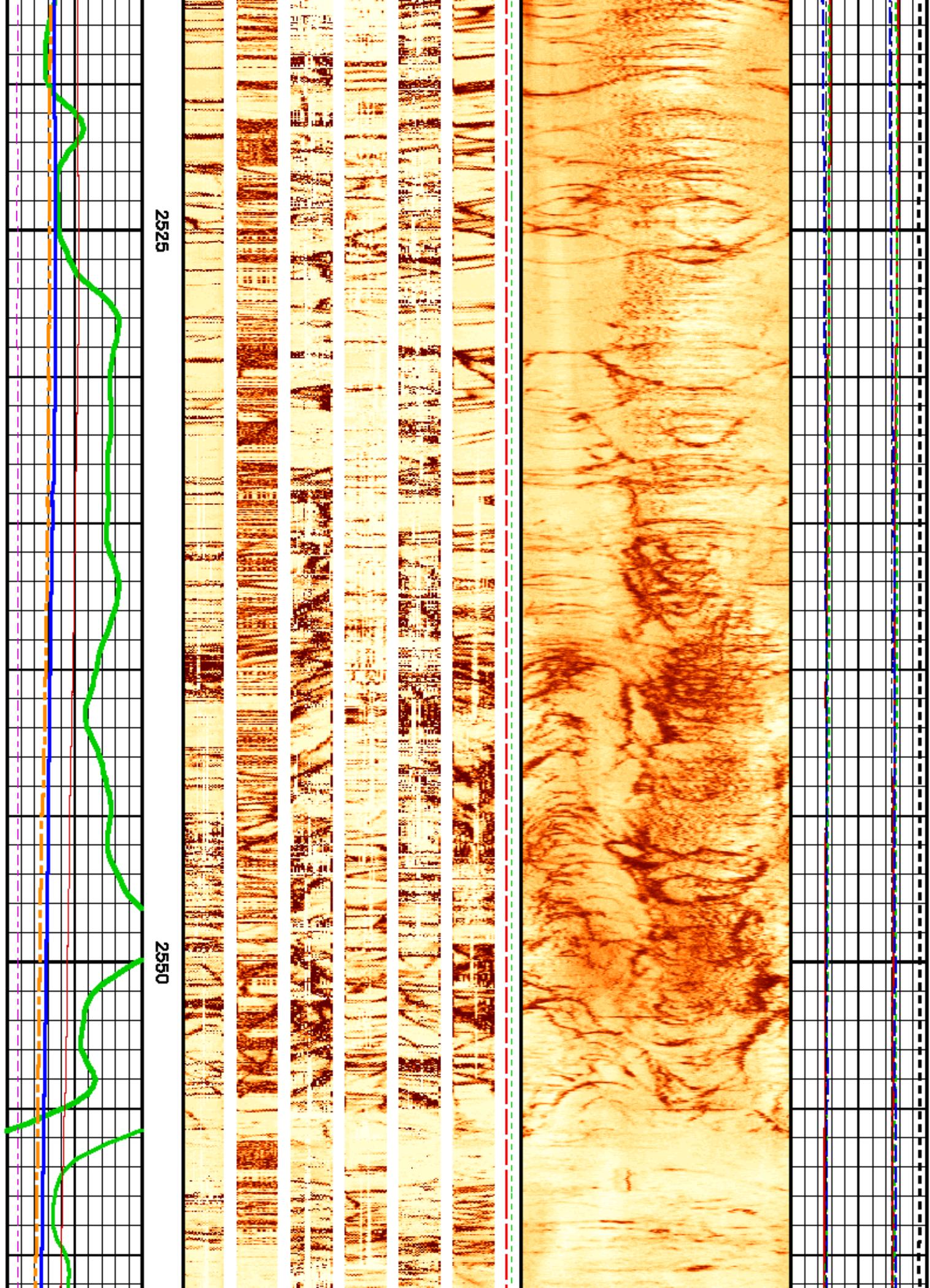
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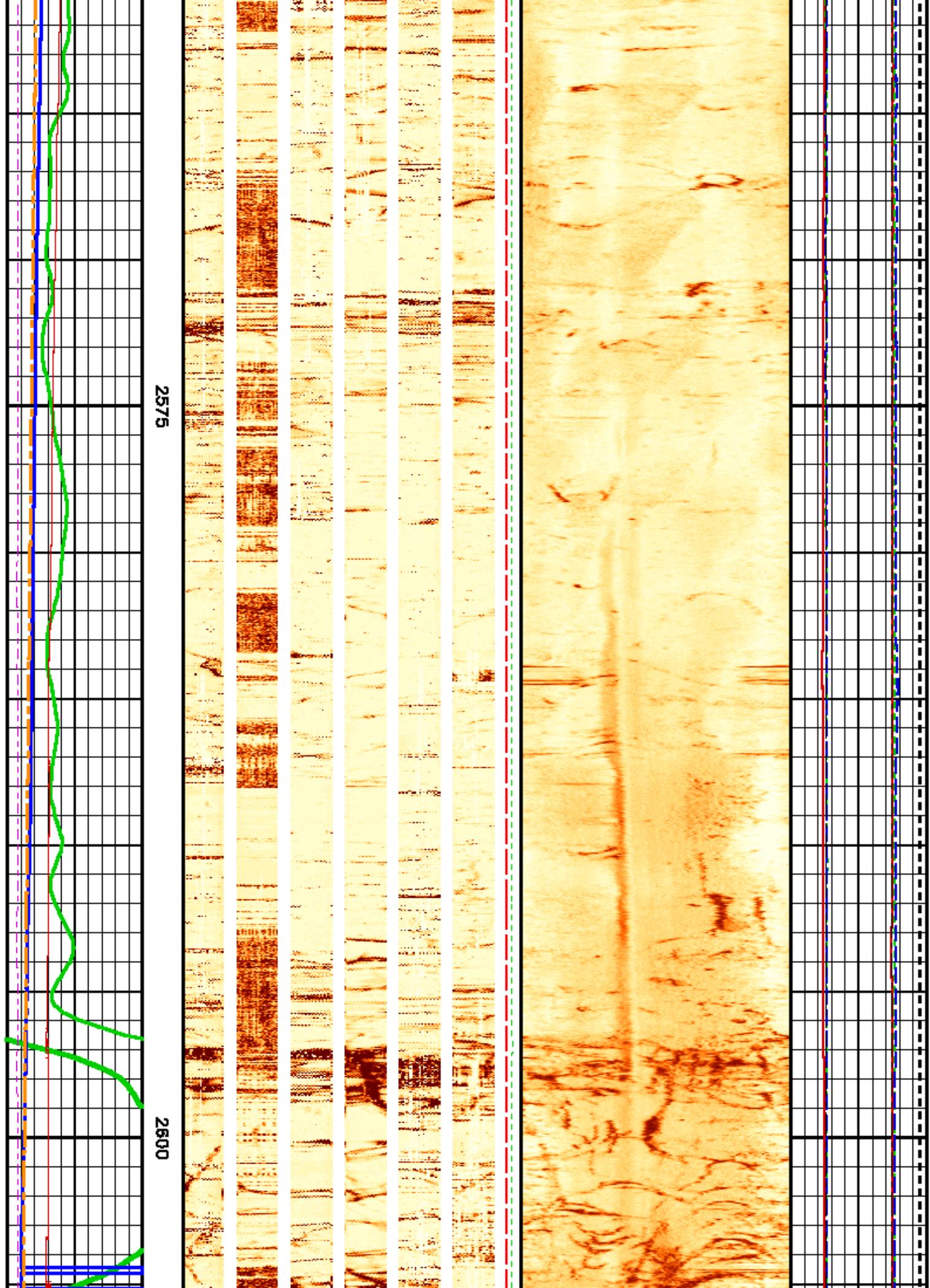


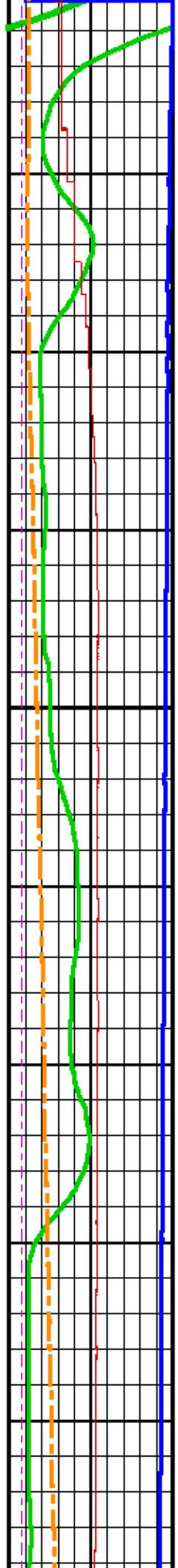
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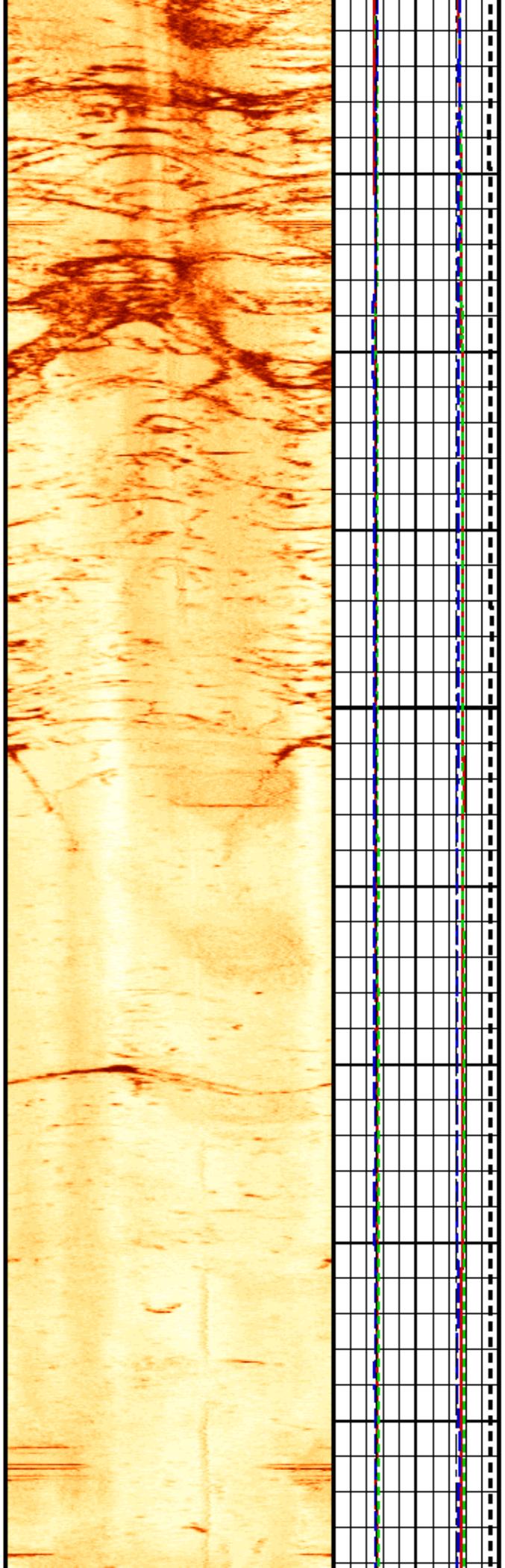
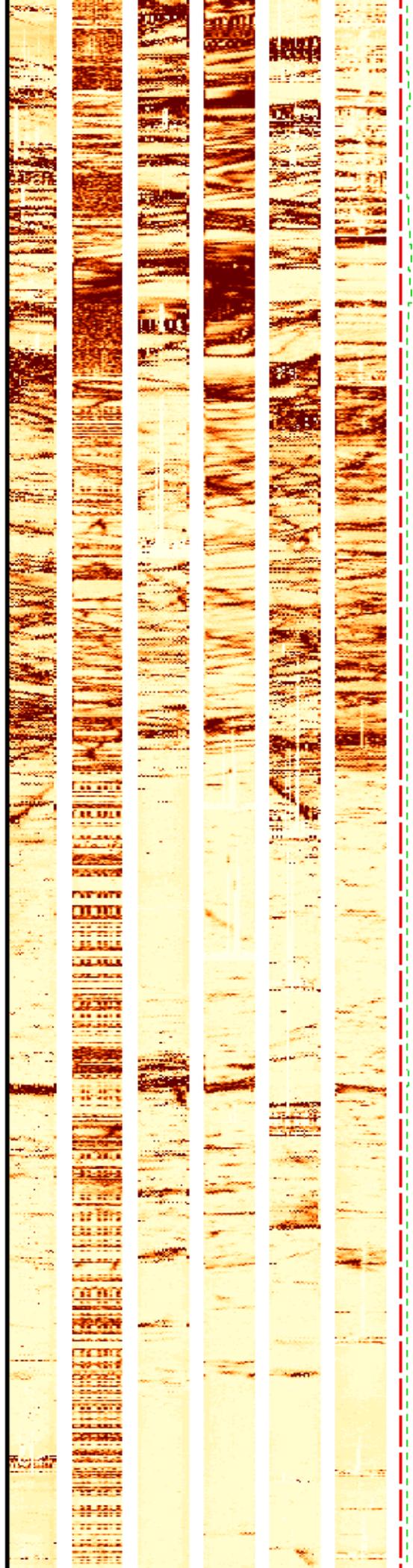


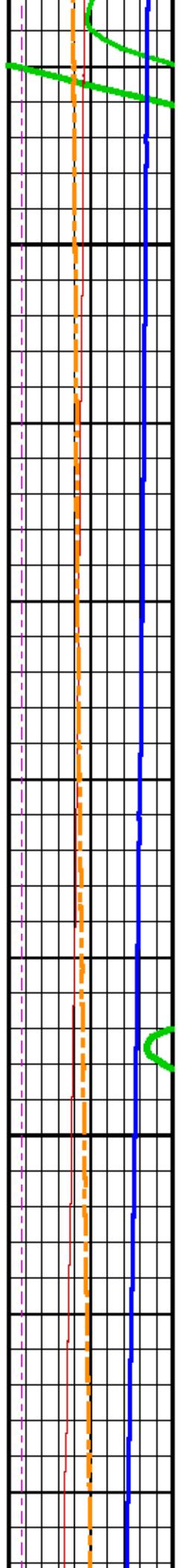






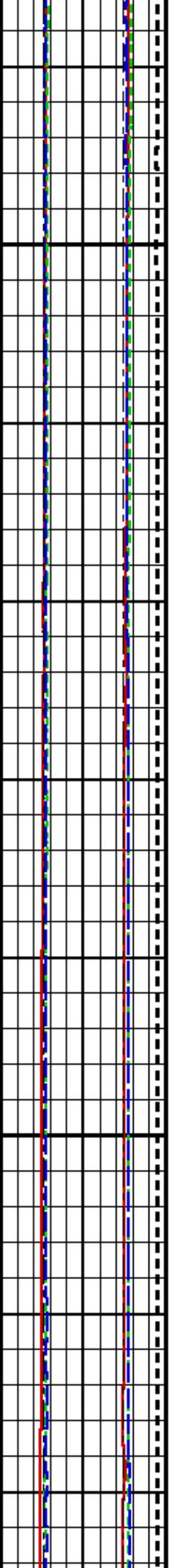
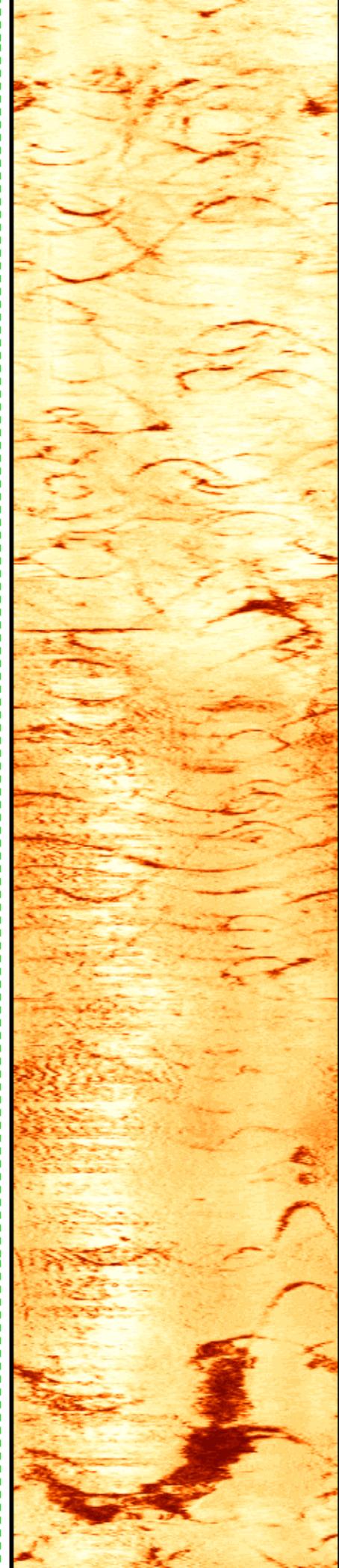
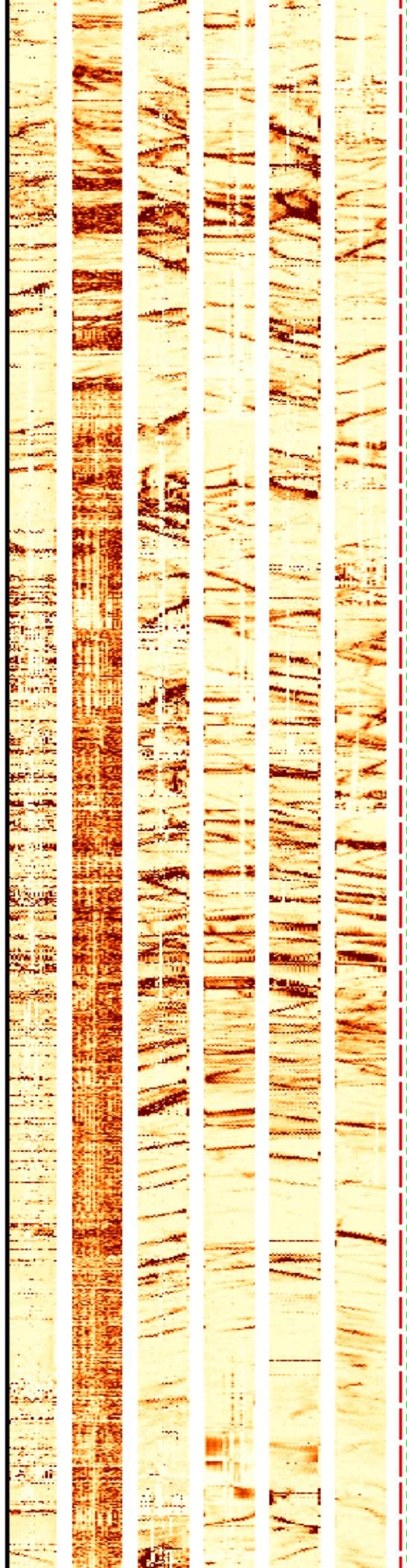
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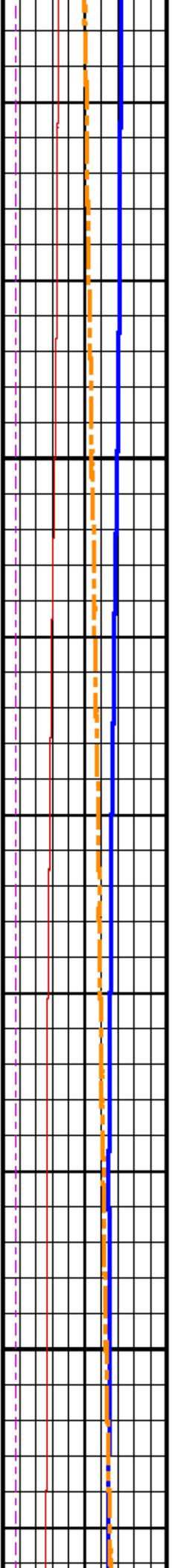




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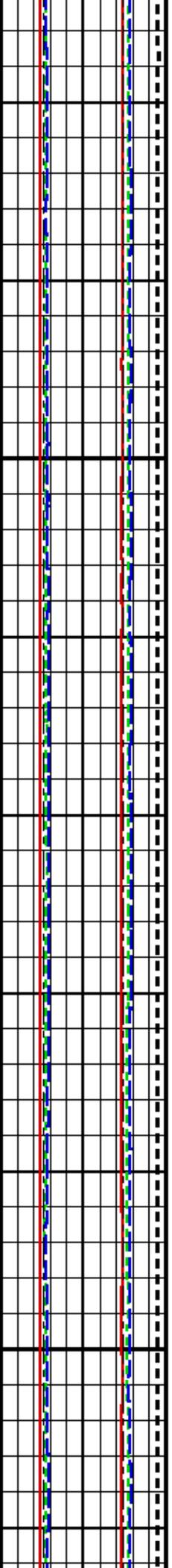
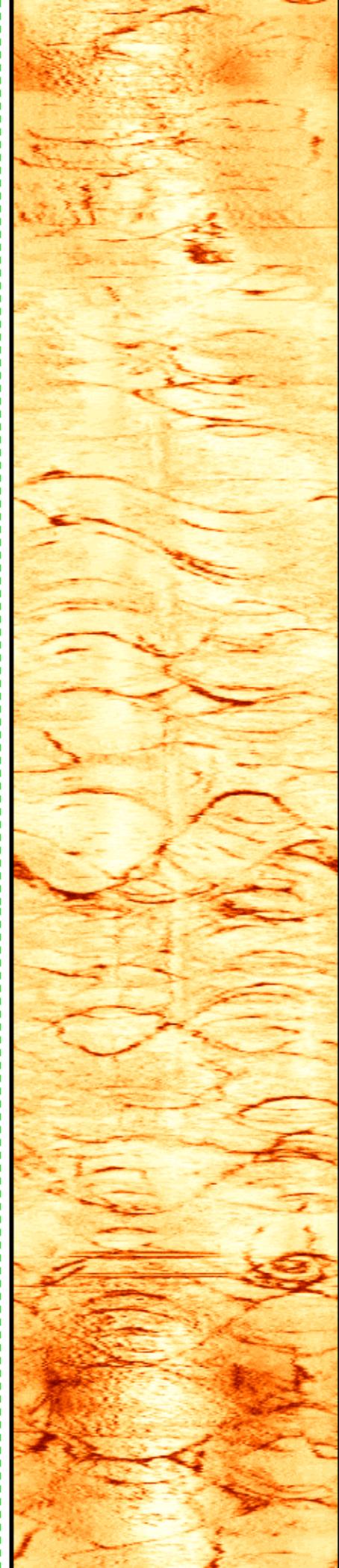
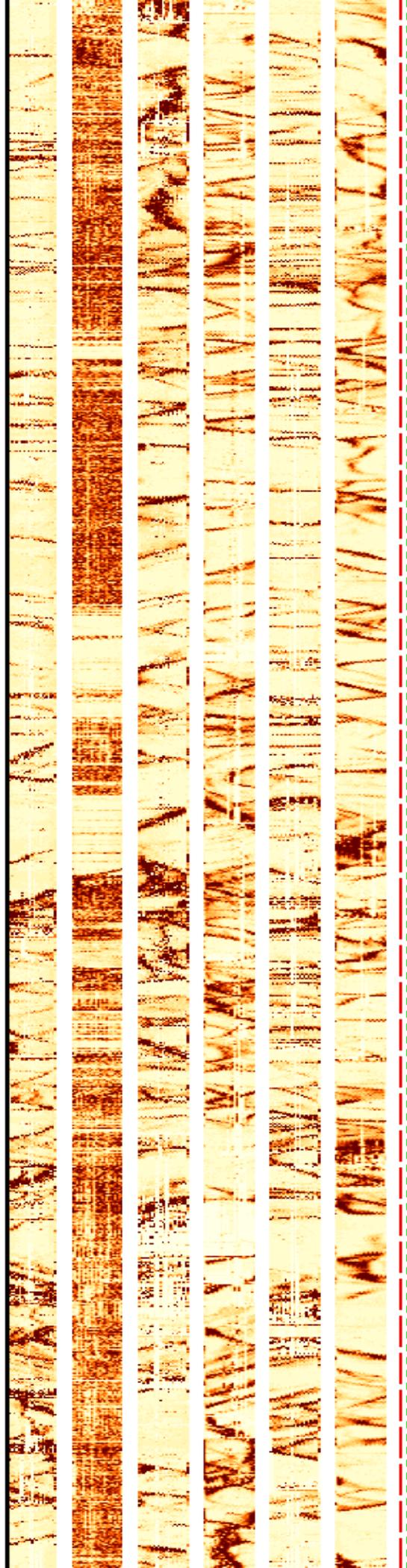
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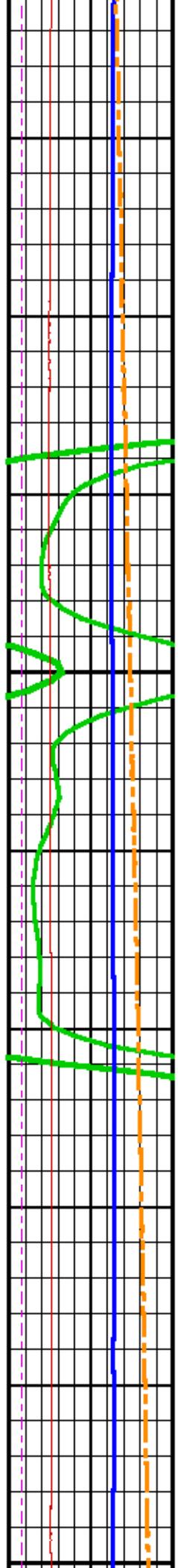




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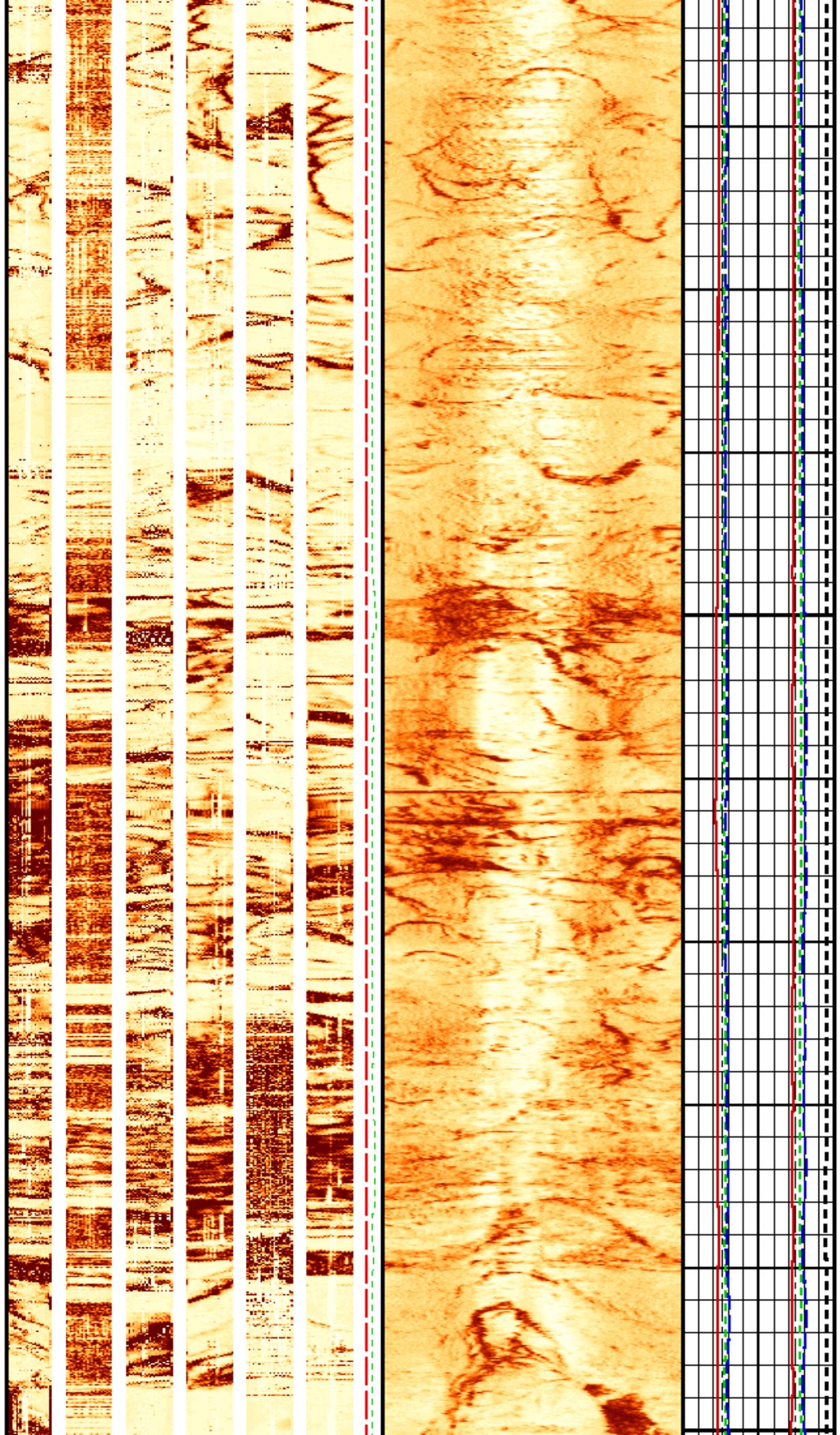
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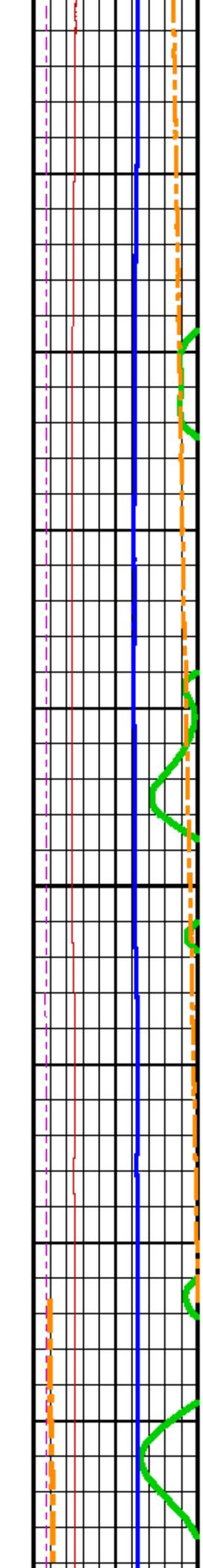
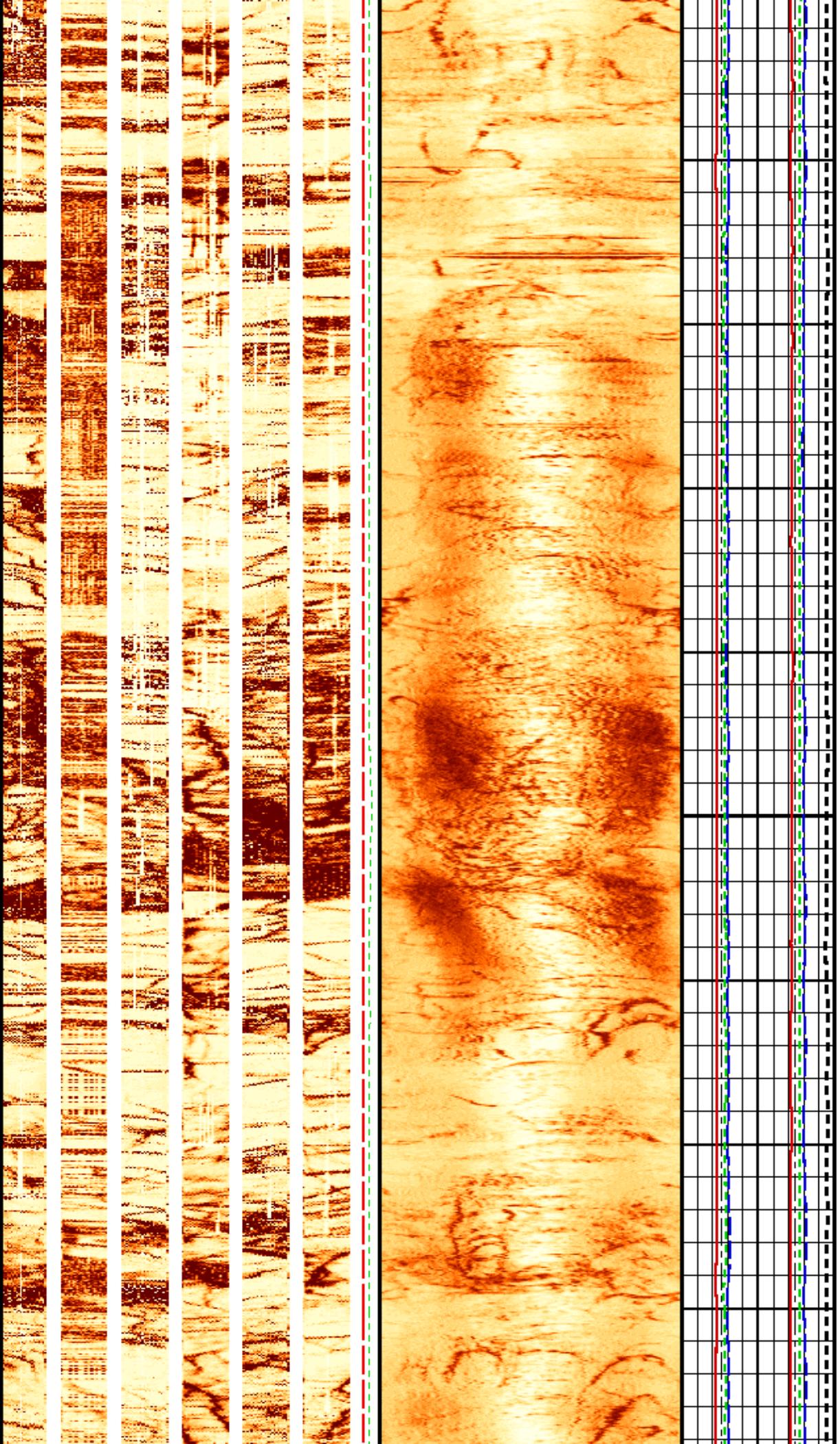
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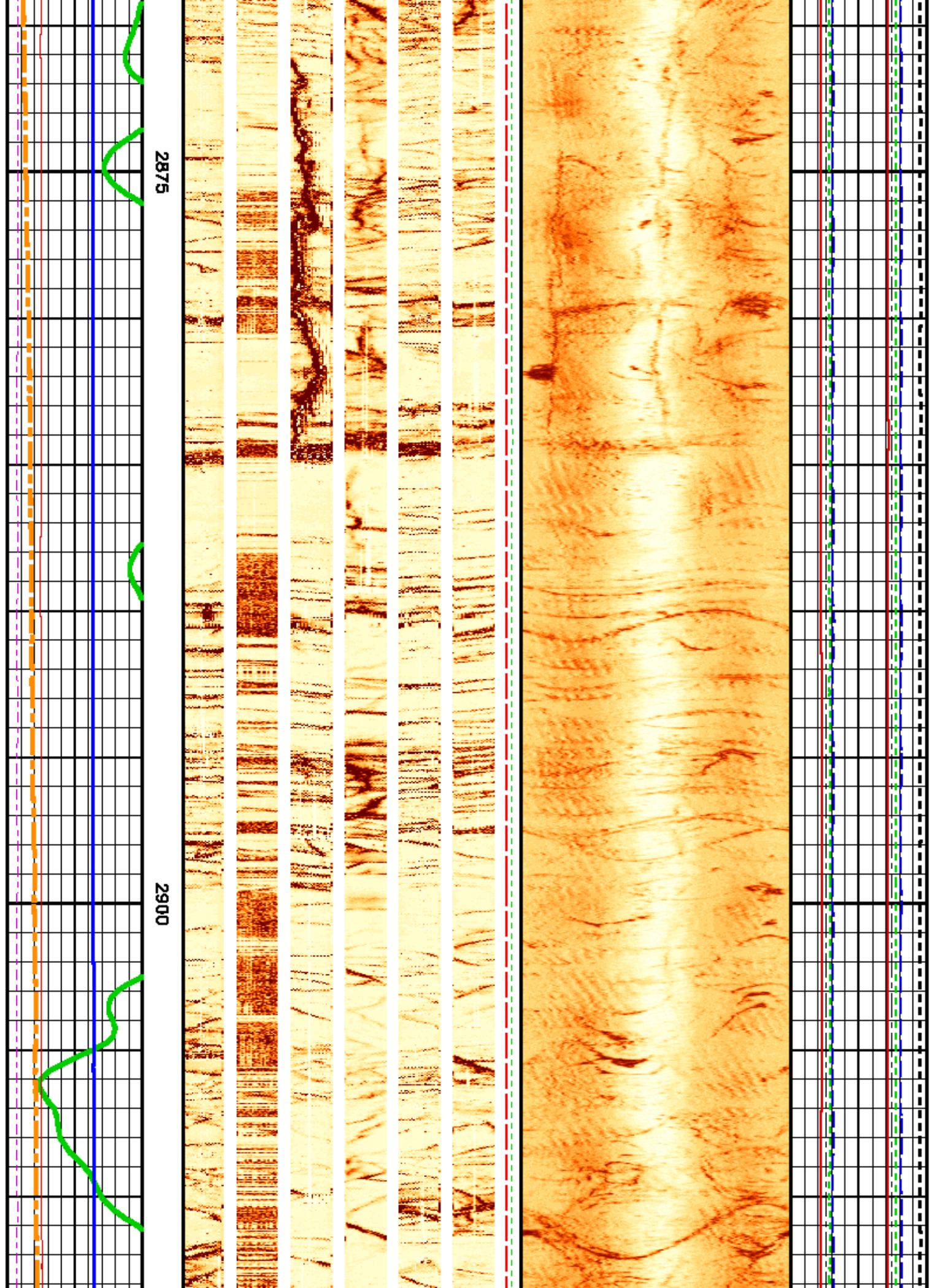
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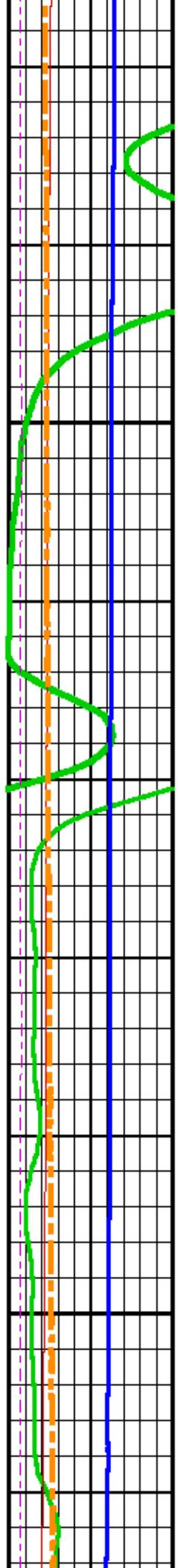


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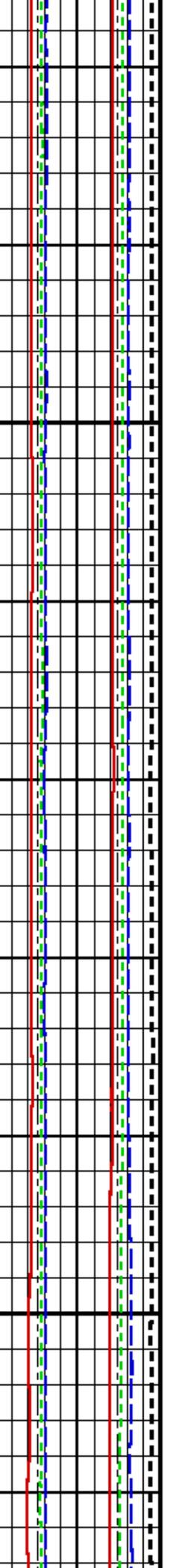
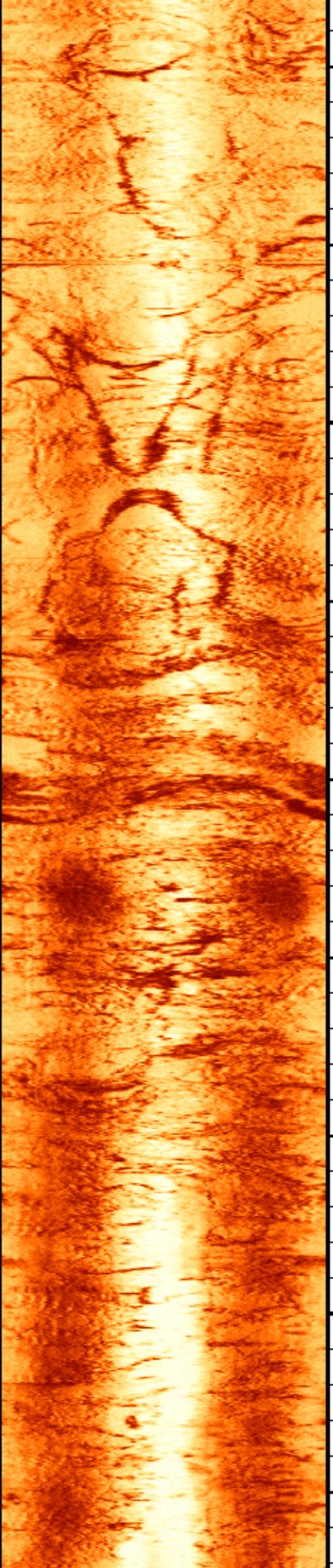
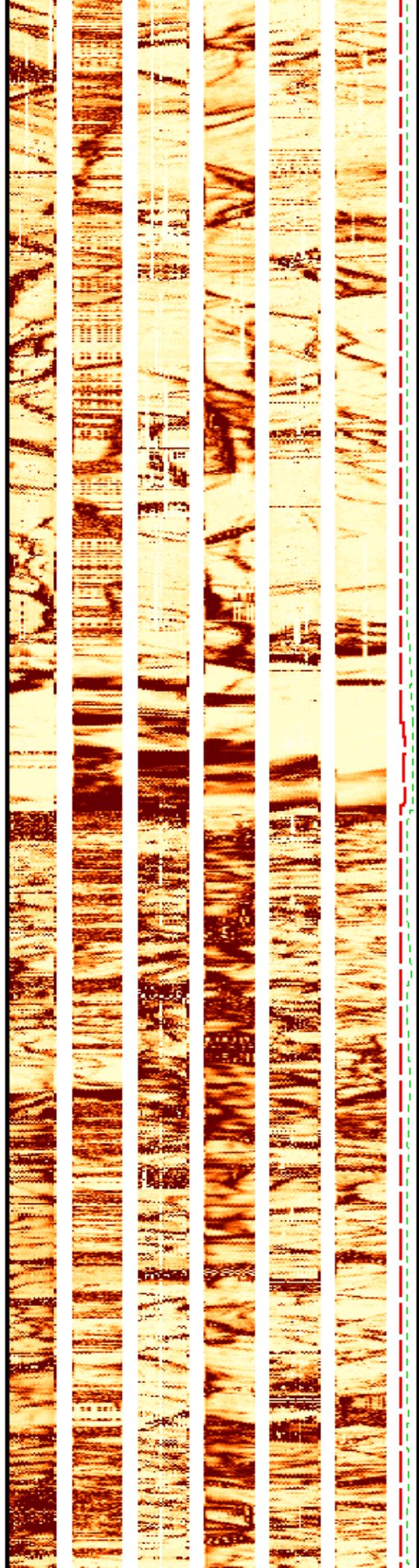


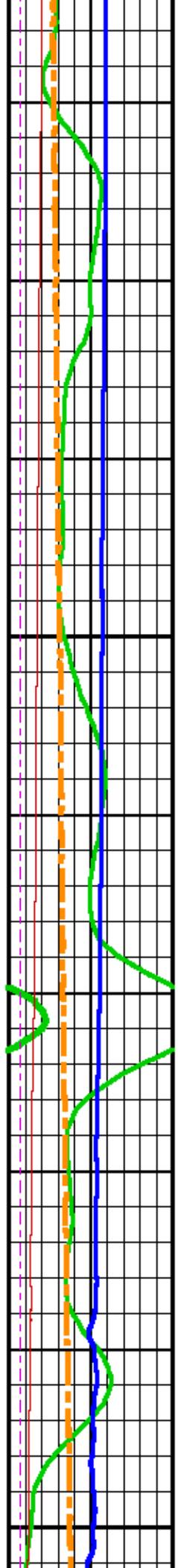




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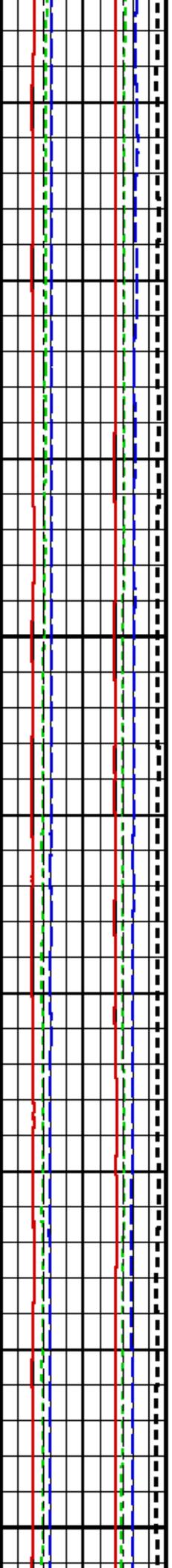
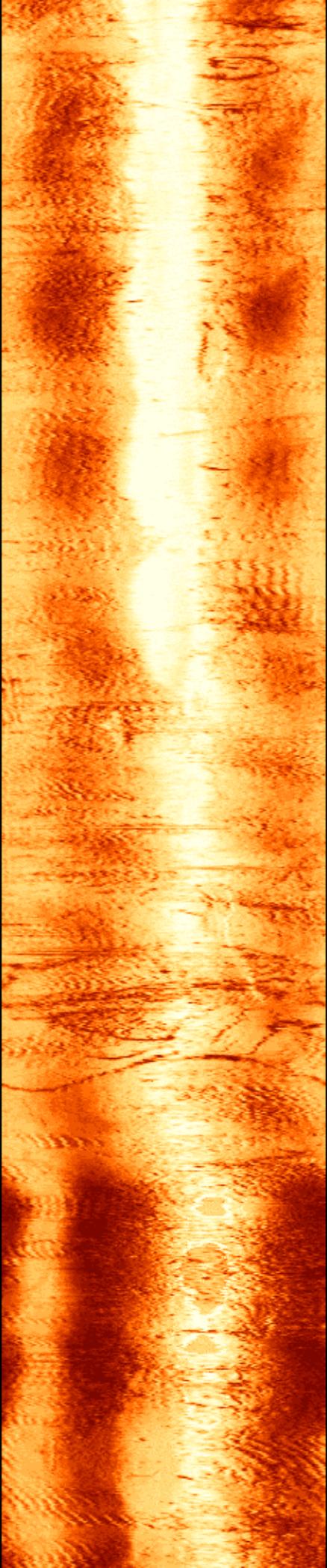
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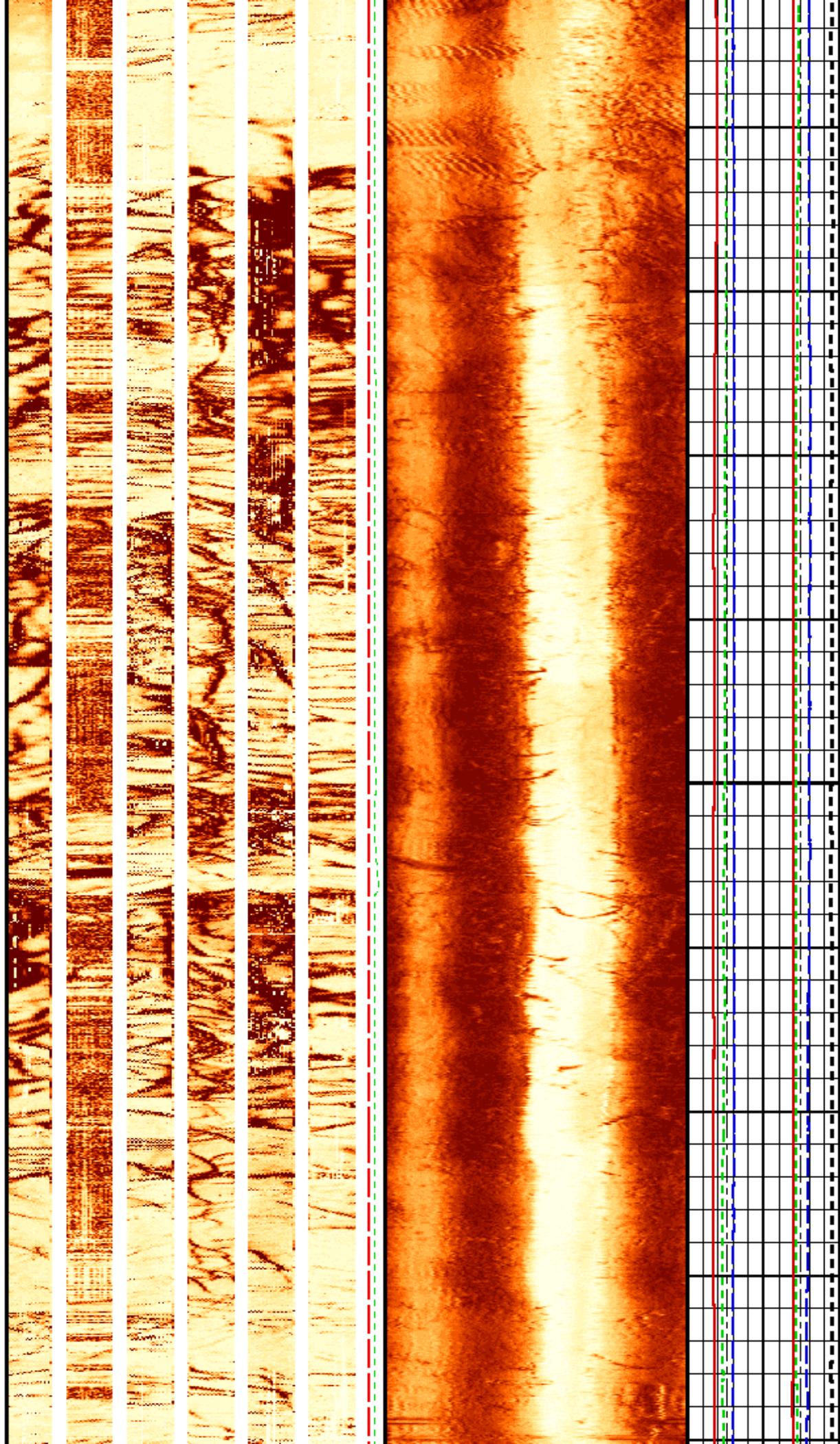




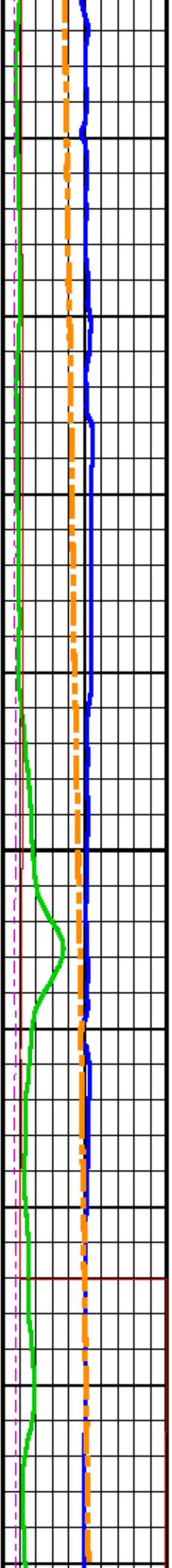
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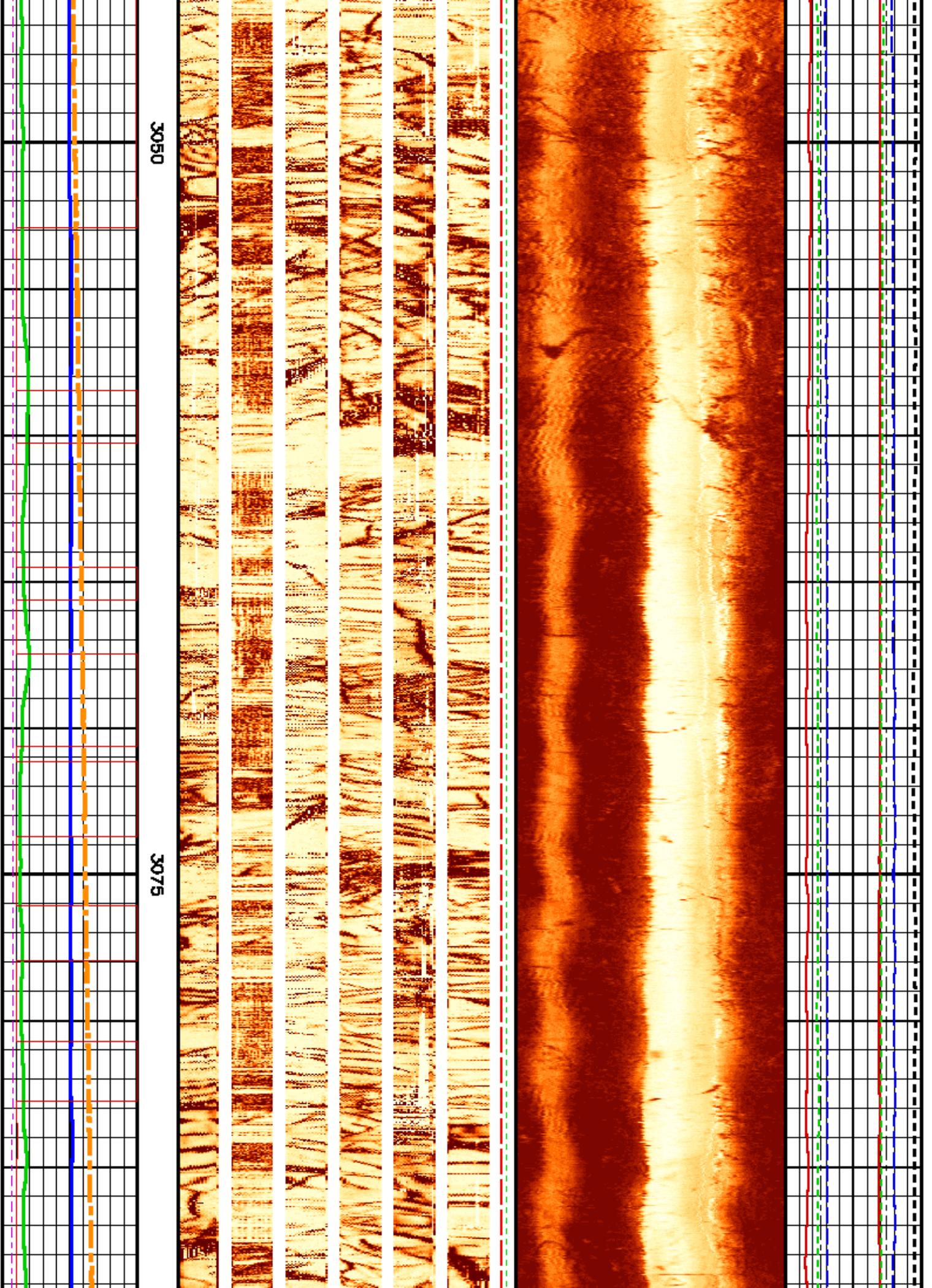
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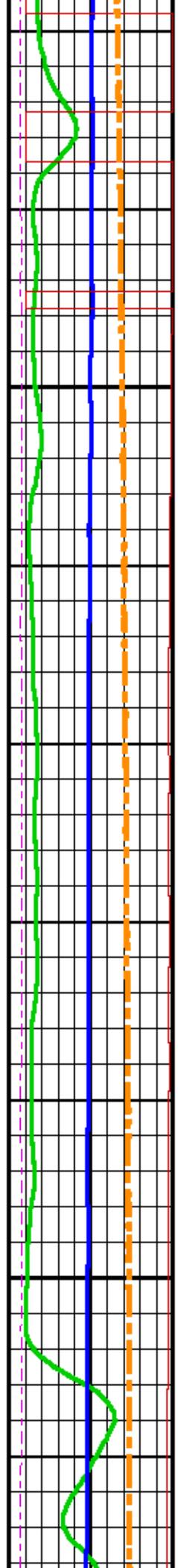




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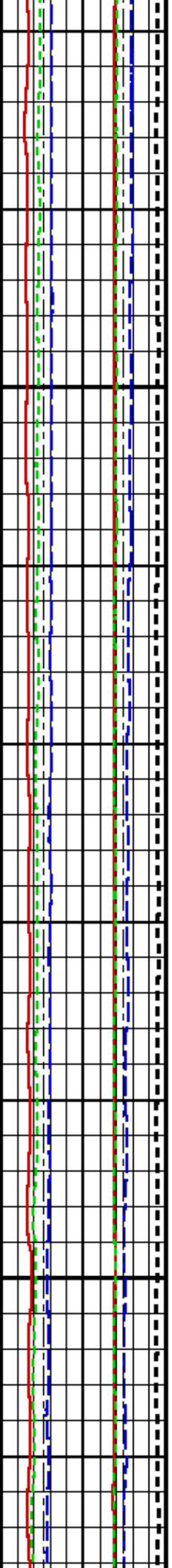
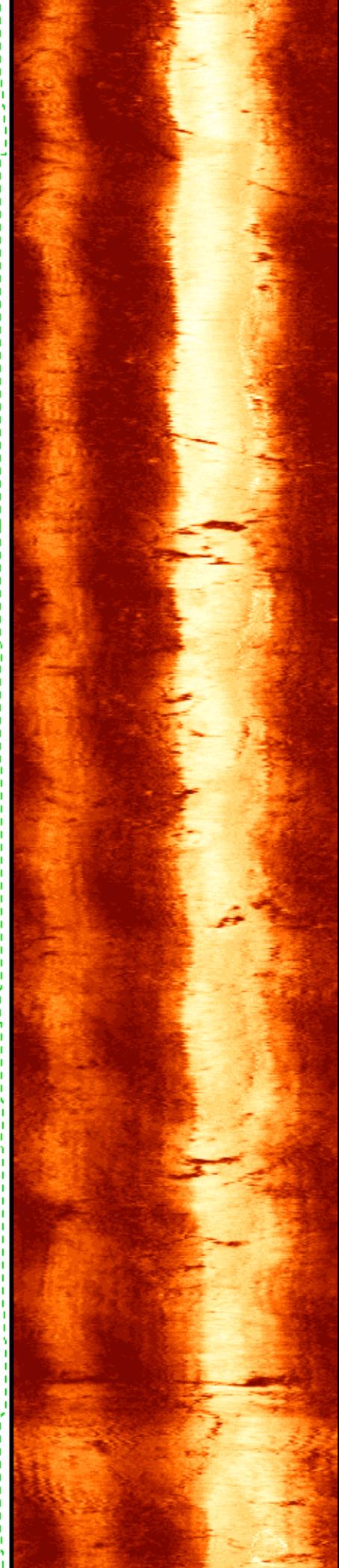
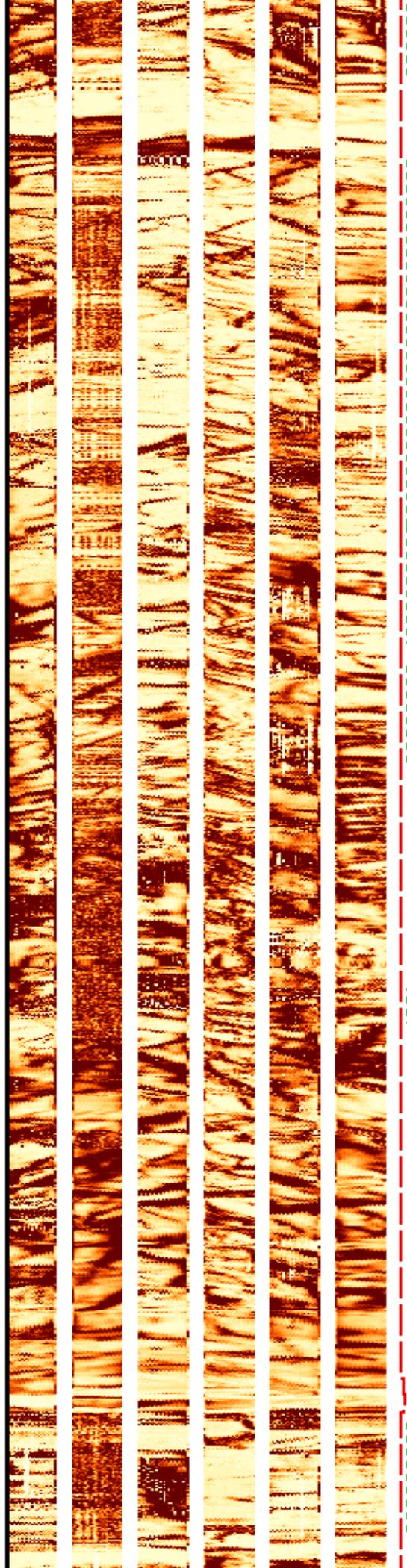


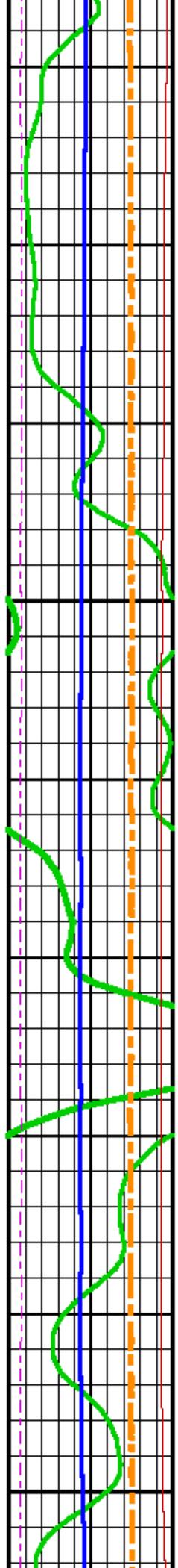




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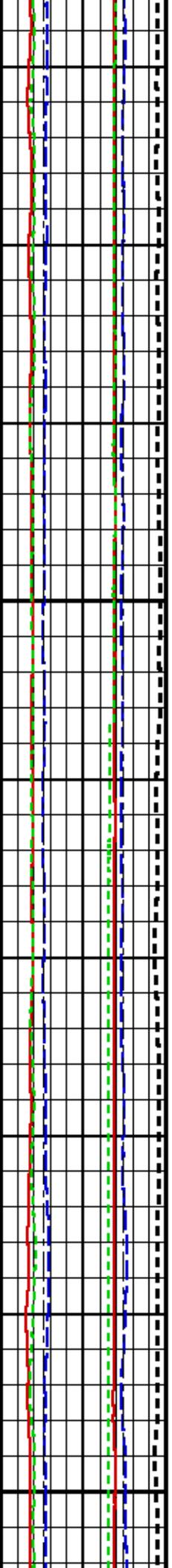
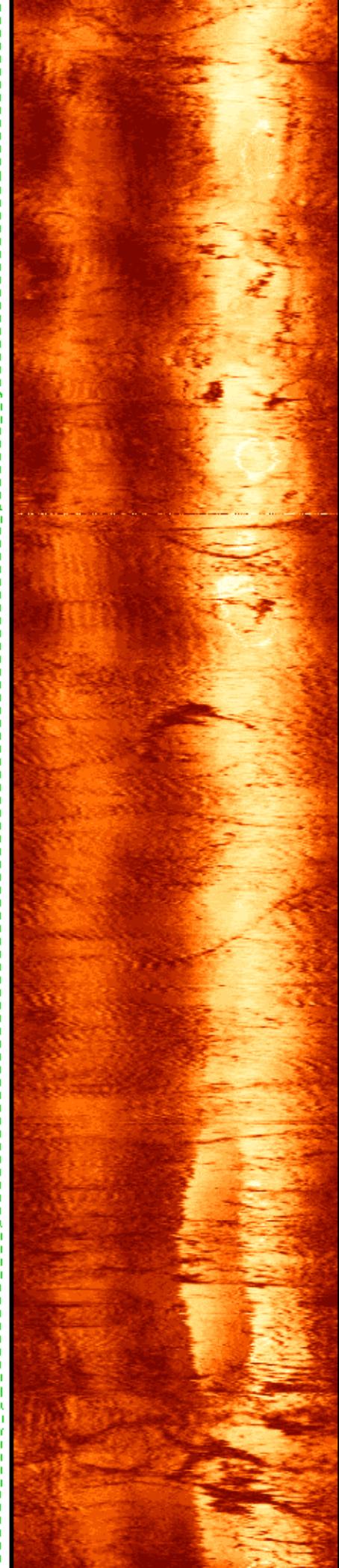
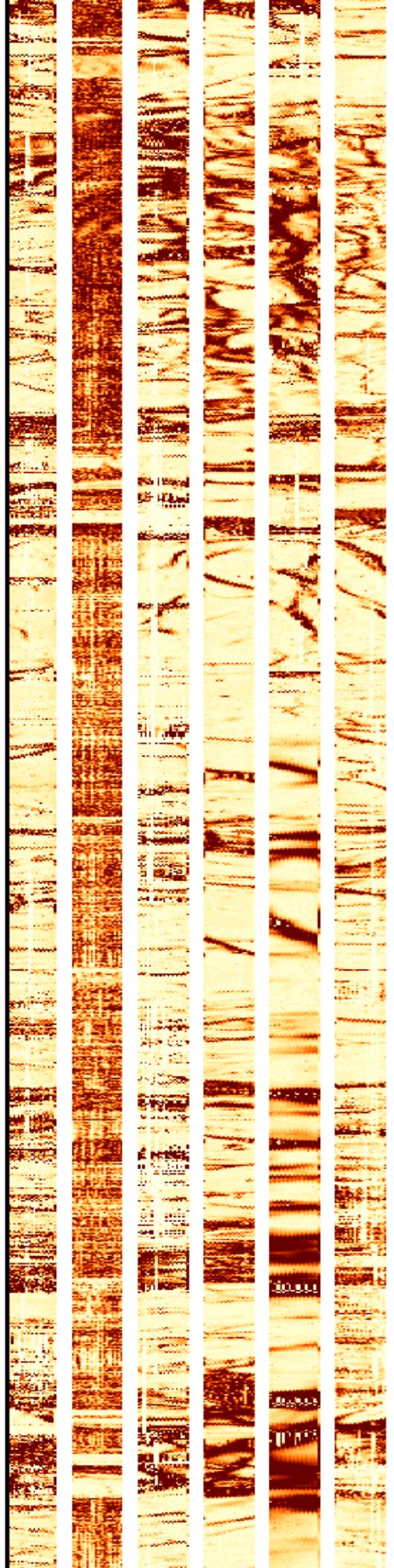
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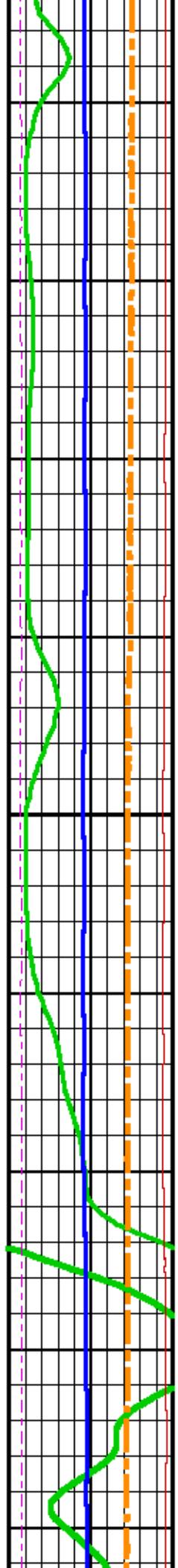




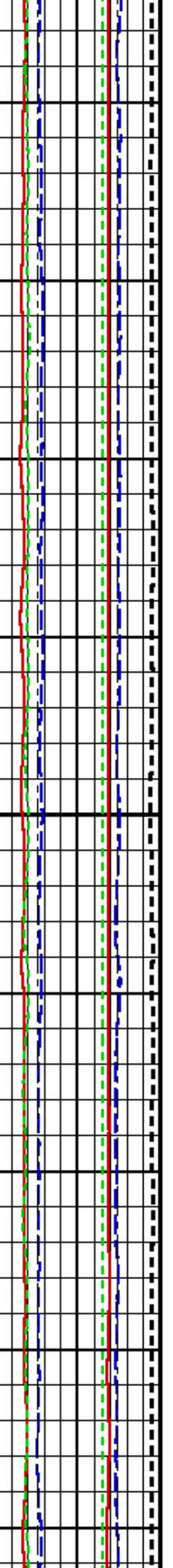
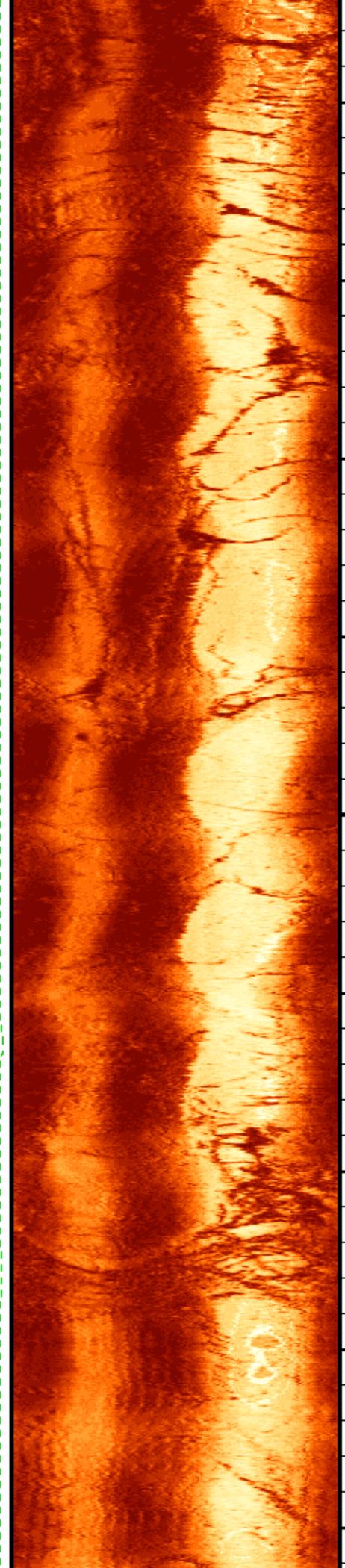
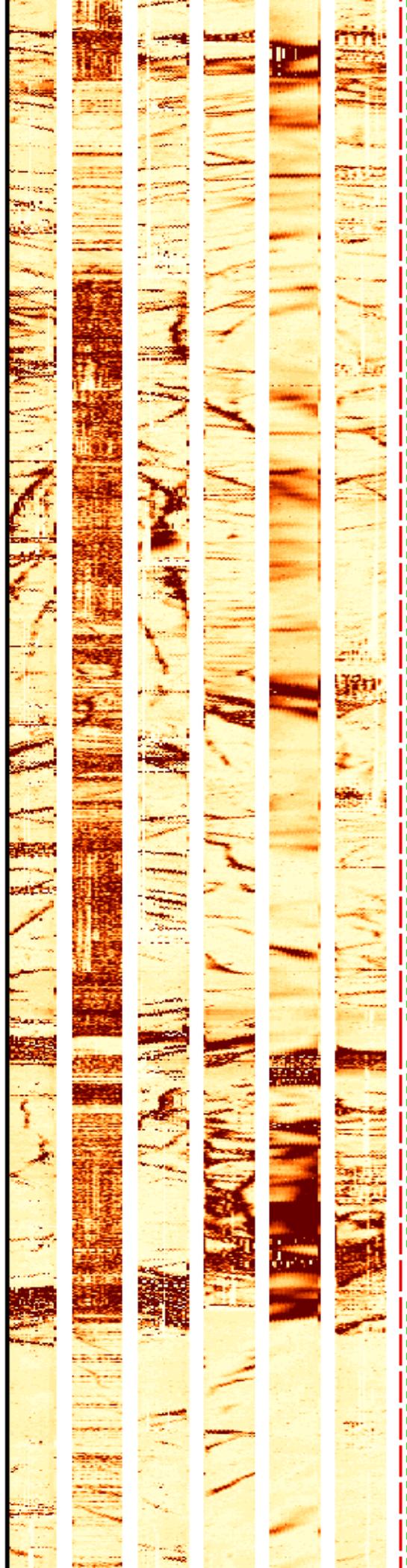
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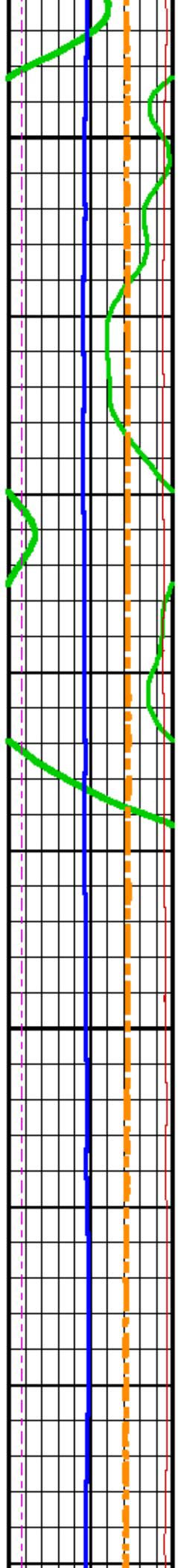
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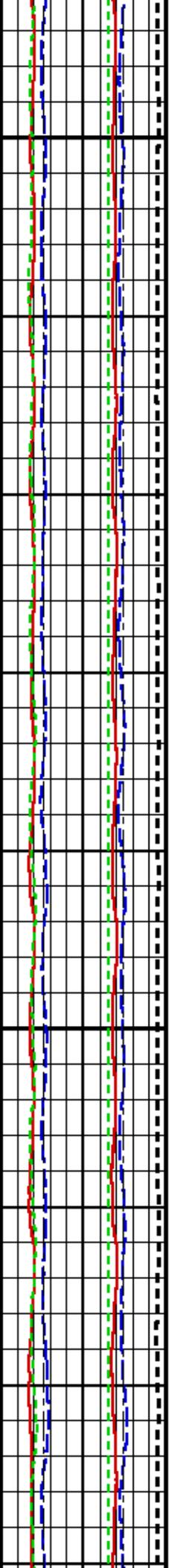
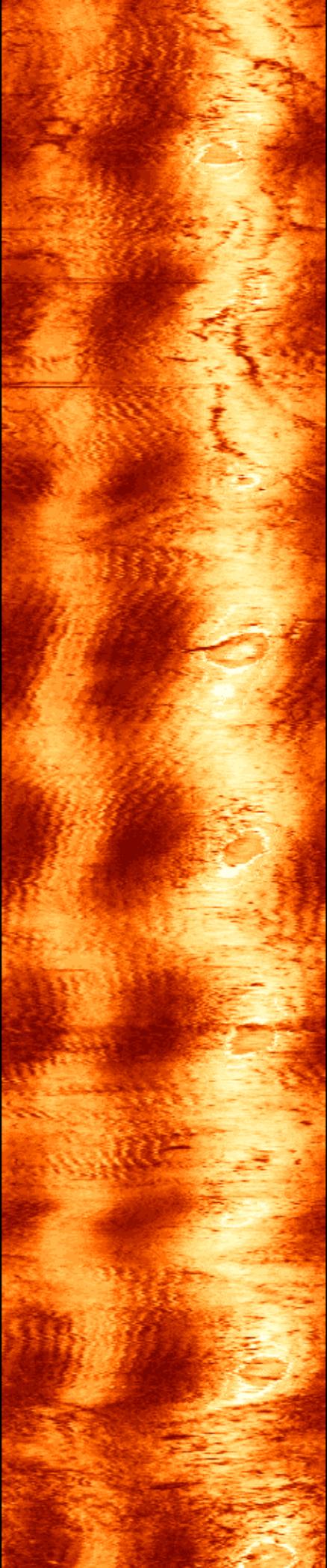
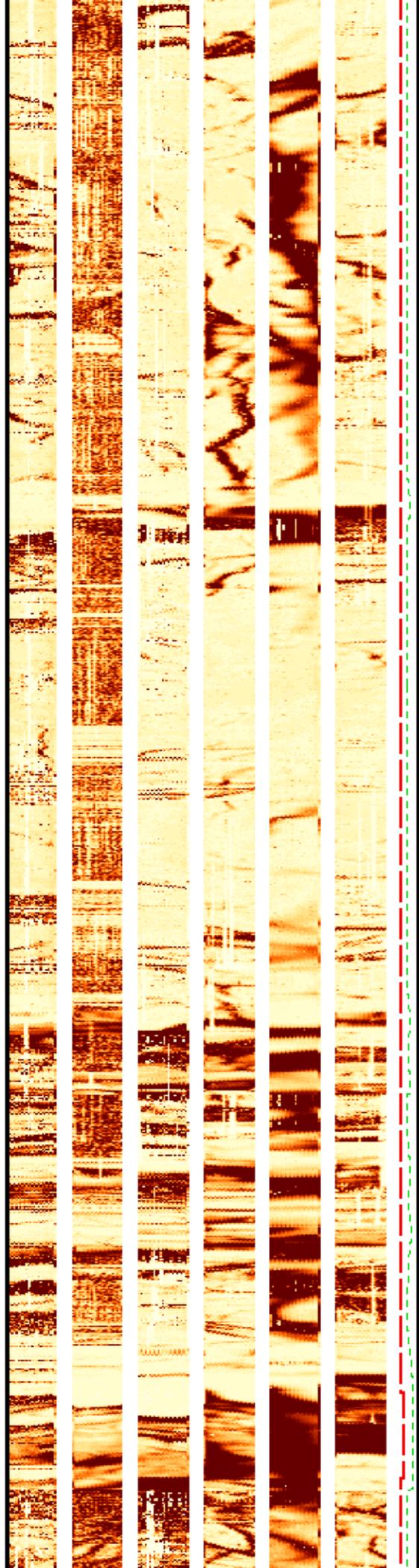
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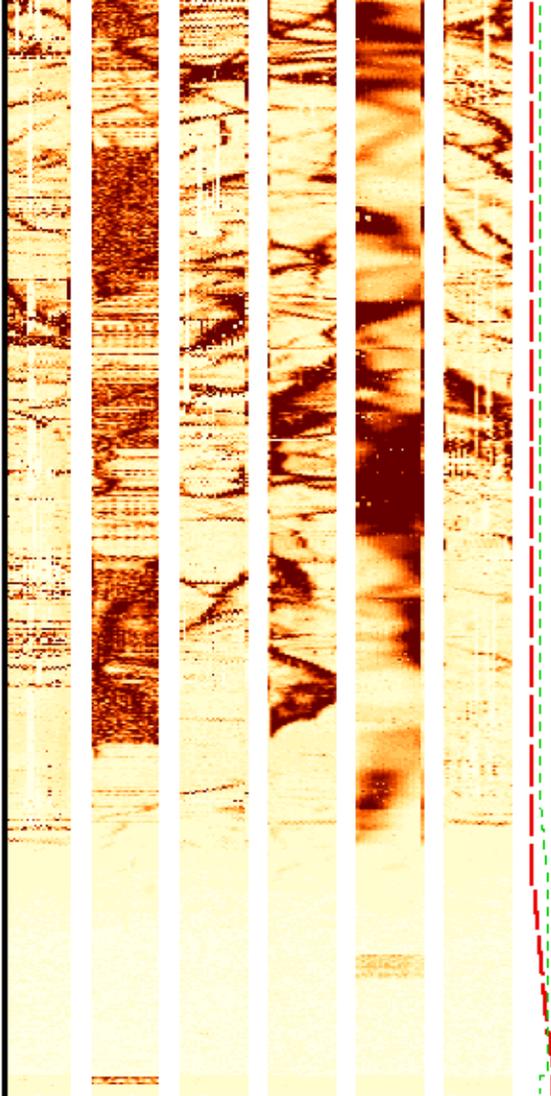
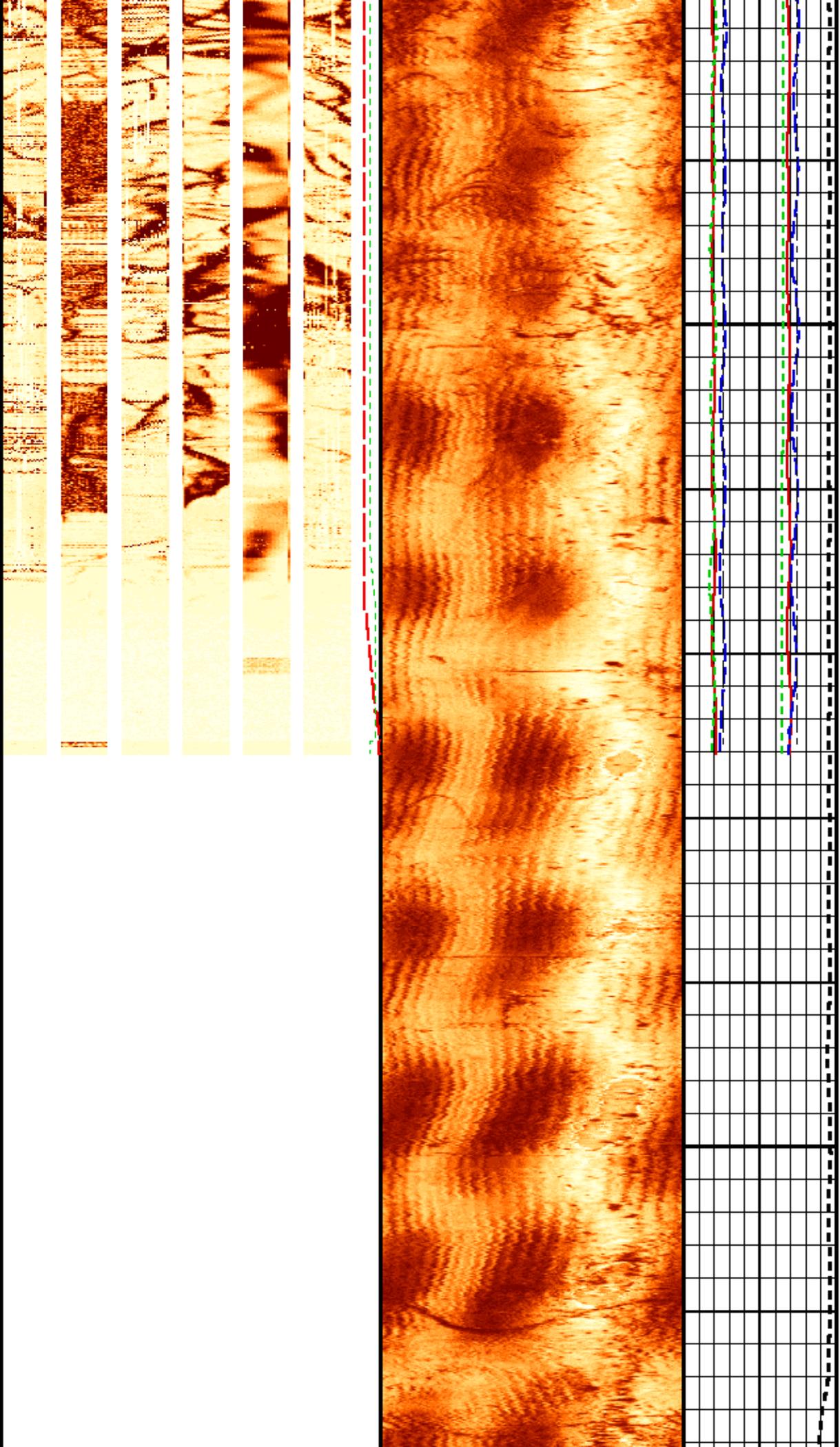




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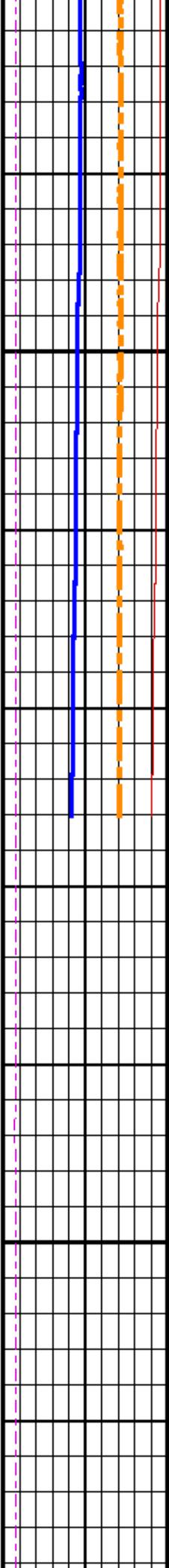
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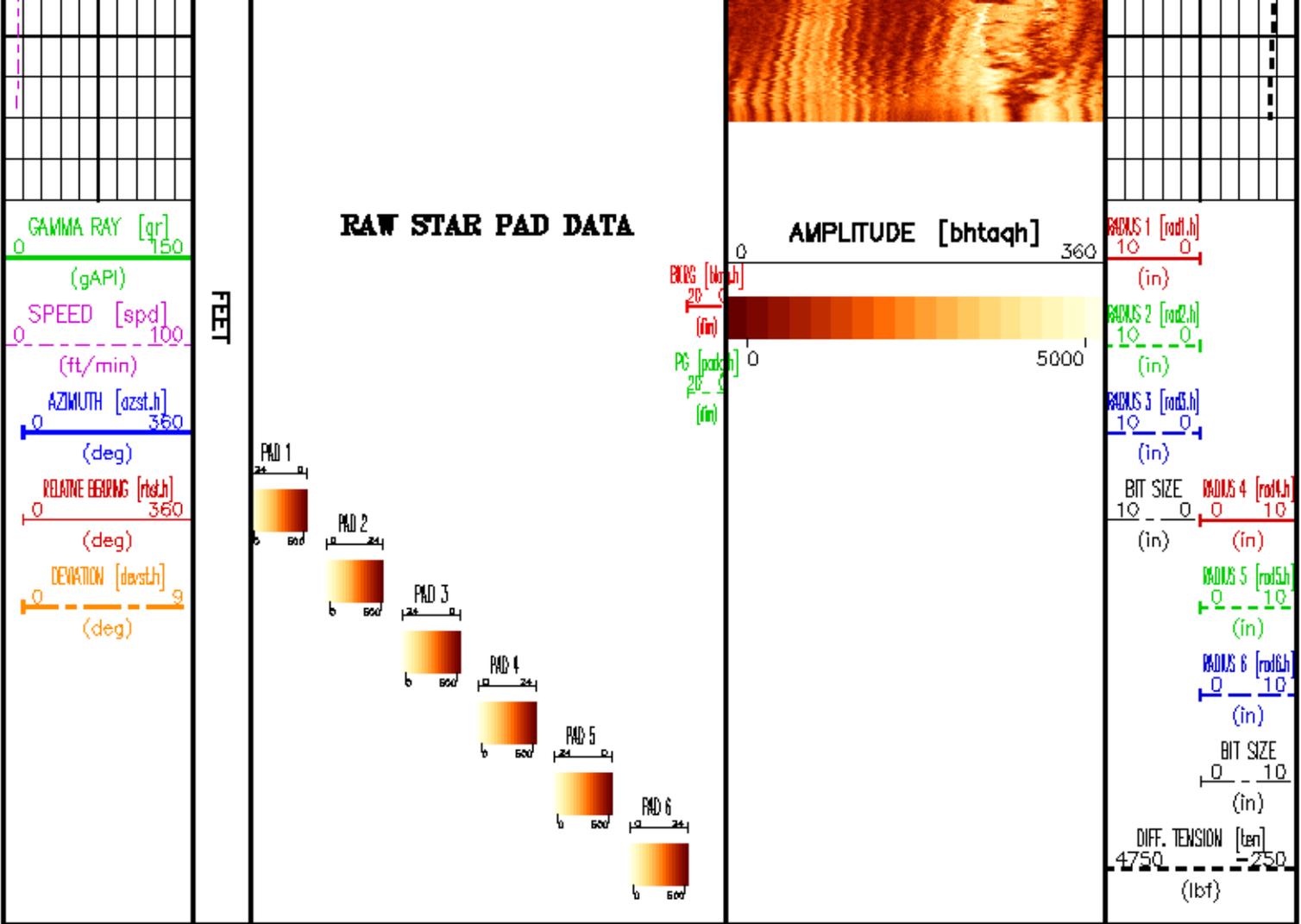




3275

3300





REPEAT LOG

ECLIPS 6.01 Feb 21, 2008 Thu Nov 26 00:48:25 2009
 Updates: 1,43
 Percplt /main/62 Cplot Pdf_Cpp /main/16 Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/575886/k837.m02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2898.967 ft BOTTOM DEPTH: 3314.740 ft

SYMMETRIC FILTER				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
SPEED	FILTER ()	medium	(1)	TOP
	FILTER (.h)	medium	(1)	BOTTOM
TENSION	FILTER ()	medium	(1)	..
	FILTER (.h)	medium	(1)	..
GR	FILTER ()	medium	(1)	..
	FILTER (.h)	medium	(1)	..
	FILTER (.l)	medium	(1)	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
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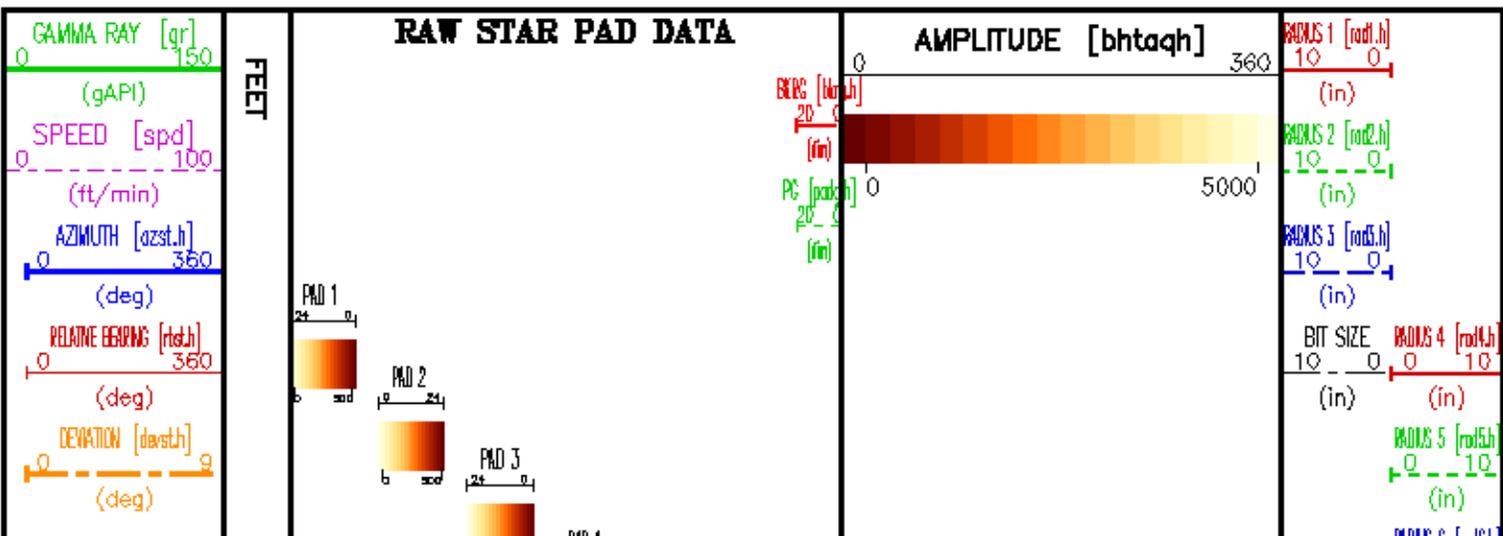
BIT SIZE	BIT SIZE	9.875	1in	TOP	BOTTOM
STAR/EART PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
PAD TYPE	STAR OTHER PAD	1029BA - 8.25 In. NO OTHER PAD		TOP "	BOTTOM "

CURVE DESCRIPTION REPORT			
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:AZSTQH	AZSTQH	Nov 25 21:10:33 2009	AZIMUTH OF REFERENCE PAD
F1:BHTAQH	BHTA.H	Nov 25 21:10:33 2009	REFLECTANCE PEAK VOLTS
F1:BKRGQH	BKRGQH	Nov 25 21:10:33 2009	BUCKER DRIVER VALUE
F1:DEVSTQH	DEVSTQH	Nov 25 21:10:33 2009	DEVIATION
F1:GR	GR	Nov 25 21:10:33 2009	GAMMA RAY
F1:P1BTHQH	P1BTH_RES.H	Nov 25 21:10:33 2009	PACKED PAD 1 BLOCK (BUTTONS 1-24)
F1:P2BTHQH	P2BTH_RES.H	Nov 25 21:10:33 2009	PACKED PAD 2 BLOCK (BUTTONS 1-24)
F1:P3BTHQH	P3BTH_RES.H	Nov 25 21:10:33 2009	PACKED PAD 3 BLOCK (BUTTONS 1-24)
F1:P4BTHQH	P4BTH_RES.H	Nov 25 21:10:33 2009	PACKED PAD 4 BLOCK (BUTTONS 1-24)
F1:P5BTHQH	P5BTH_RES.H	Nov 25 21:10:33 2009	PACKED PAD 5 BLOCK (BUTTONS 1-24)
F1:P6BTHQH	P6BTH_RES.H	Nov 25 21:10:33 2009	PACKED PAD 6 BLOCK (BUTTONS 1-24)
F1:PADGQH	PADGQH	Nov 25 21:10:33 2009	PAD GAIN CODE
F1:RAD1QH	RAD1QH	Nov 25 21:10:33 2009	RADIUS, TOOL AXIS TO PAD 1 FACE
F1:RAD2QH	RAD2QH	Nov 25 21:10:33 2009	RADIUS, TOOL AXIS TO PAD 2 FACE
F1:RAD3QH	RAD3QH	Nov 25 21:10:33 2009	RADIUS, TOOL AXIS TO PAD 3 FACE
F1:RAD4QH	RAD4QH	Nov 25 21:10:33 2009	RADIUS, TOOL AXIS TO PAD 4 FACE
F1:RAD5QH	RAD5QH	Nov 25 21:10:33 2009	RADIUS, TOOL AXIS TO PAD 5 FACE
F1:RAD6QH	RAD6QH	Nov 25 21:10:33 2009	RADIUS, TOOL AXIS TO PAD 6 FACE
F1:RB1T1	RB1T1	Nov 25 21:10:33 2009	BIT RADIUS 1
F1:RB1T4	RB1T4	Nov 25 21:10:33 2009	BIT RADIUS 4
F1:RBSTQH	RBSTQH	Nov 25 21:10:33 2009	RELATIVE BEARING (RELATIVE TO HIGH SIDE OF BOREHOLE)
F1:SPD	SPD	Nov 25 21:10:33 2009	SPEED
F1:TEN	TEN	Nov 25 21:10:33 2009	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AZSTQH	25.34	PADGQH	25.34	RAD4QH	25.34	RB1T4	25.25
BKRGQH	25.34	RAD1QH	25.34	RAD5QH	25.34	RBSTQH	25.34
DEVSTQH	25.34	RAD2QH	25.34	RAD6QH	25.34	SPD	0.00
GR	65.00	RAD3QH	25.34	RB1T1	25.25	TEN	0.00

Presentation : opul:/data/575998/STAR_CBIL_REPEAT.pdf [25"/100' Scale]
 Plot Interval : 3000 - 3316.5 Feet

 Data File 1 : F1 : opul:/data/575998/9_STAR-CBIL_REPEAT.dfl
 Created On : Nov 25 21:10:33 2009
 Company : SIERRA GEOTHERMAL POWER, INC.
 Well : ALLIM 25-29
 Field : ALLIM
 File Interval : 2924.25 - 3316.5 Feet
 Out : k837m



PAVING BIT (in)
0 10
BIT SIZE (in)
0 10
DIFF. TENSION (ton)
4750 250
(lbf)

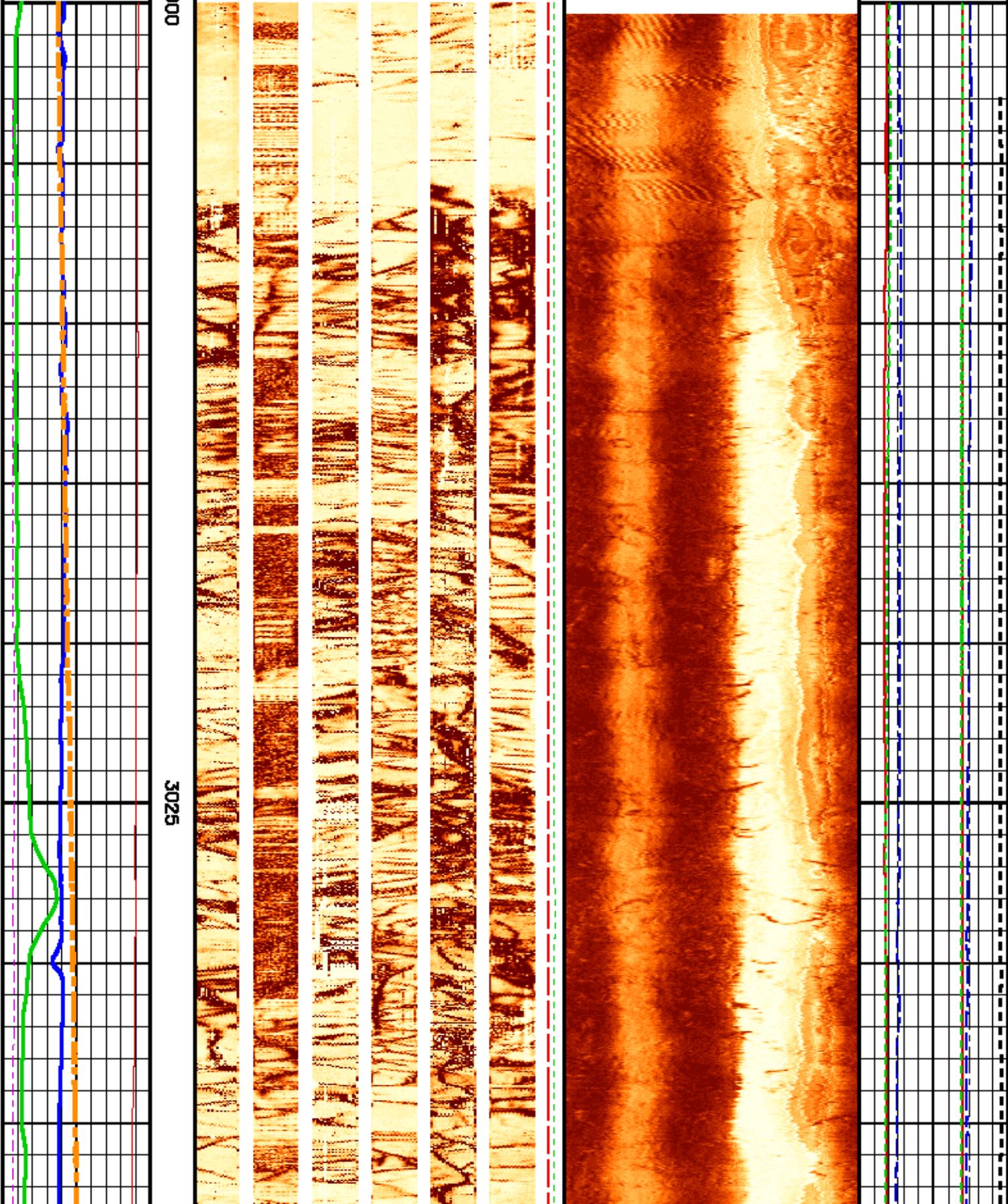
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0 24

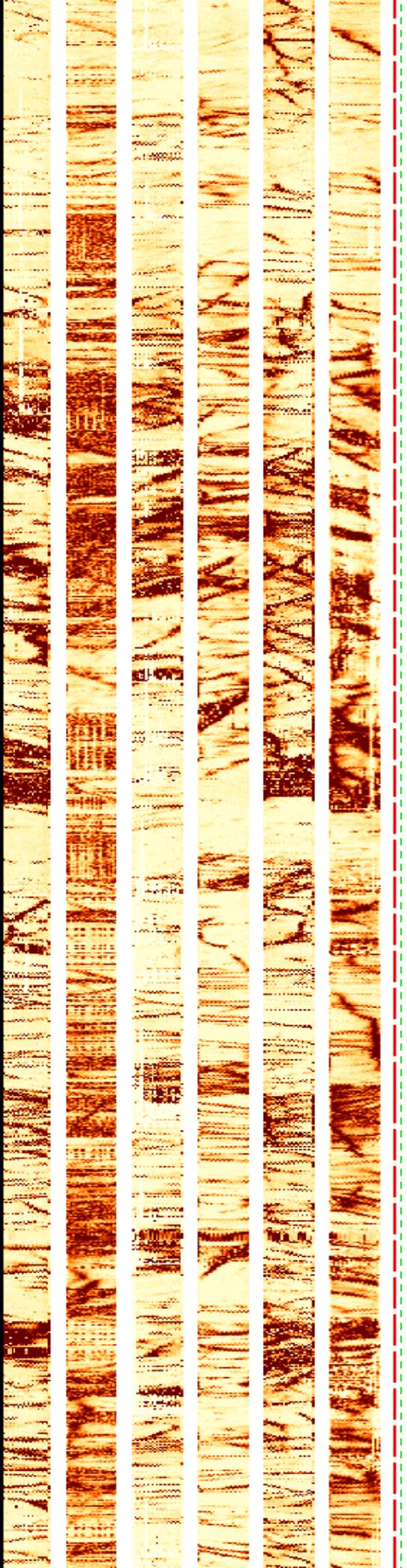
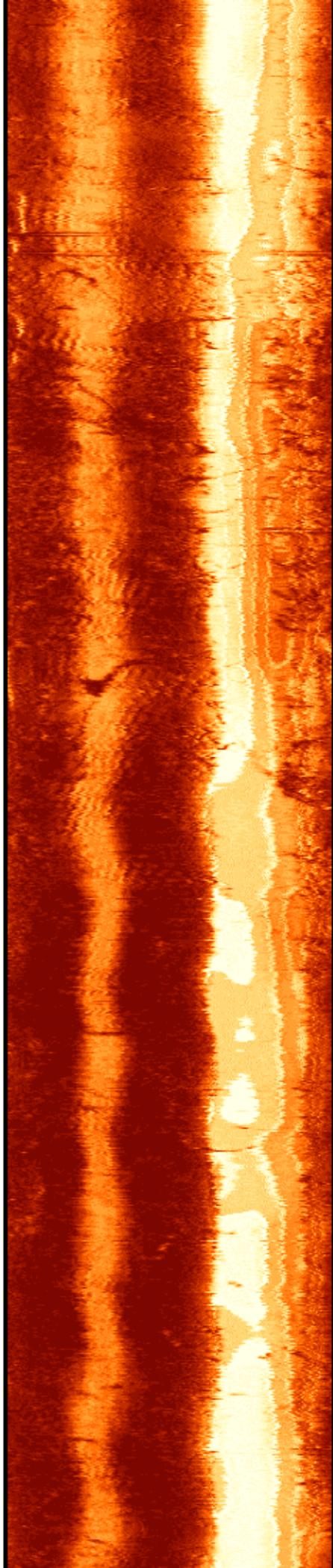
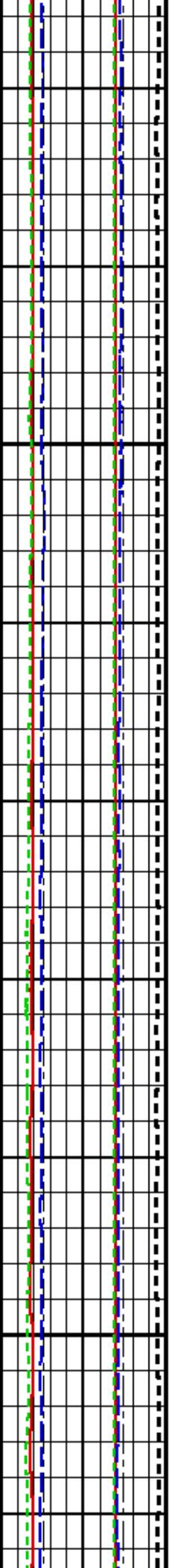
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0 24
0 24

PAD 4
0 24
0 24

3000

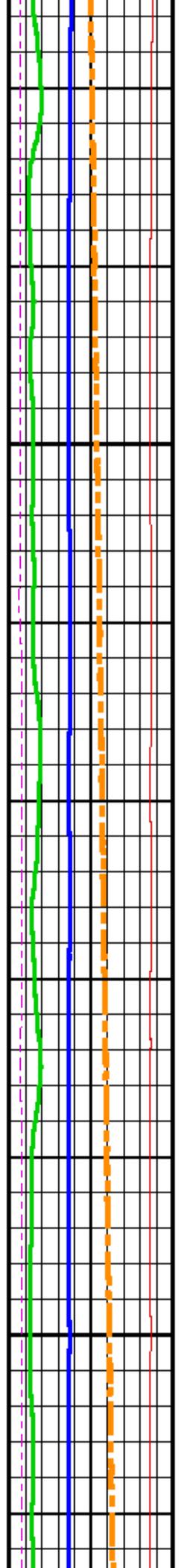
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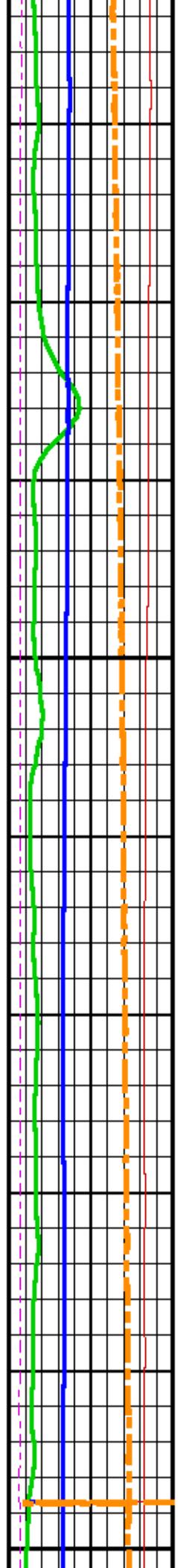




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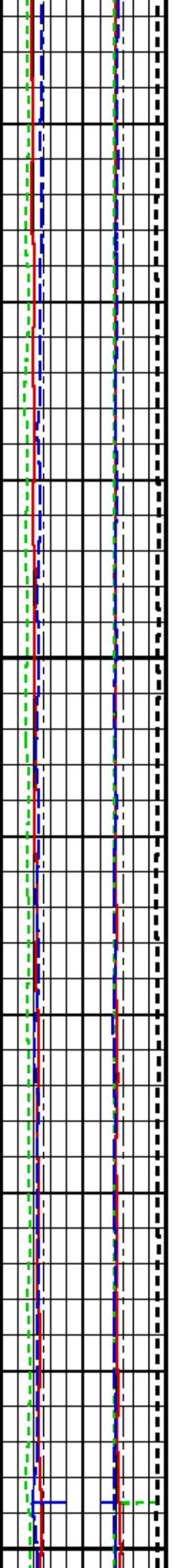
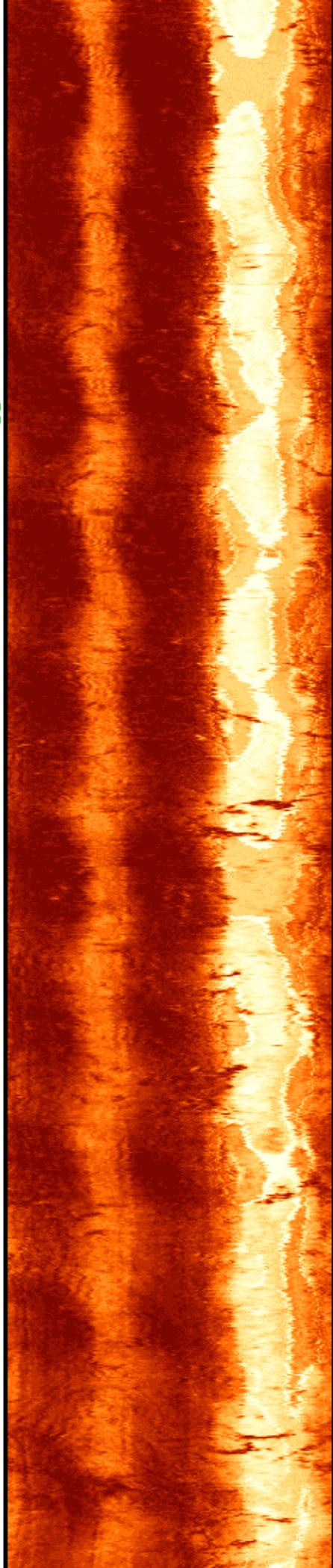
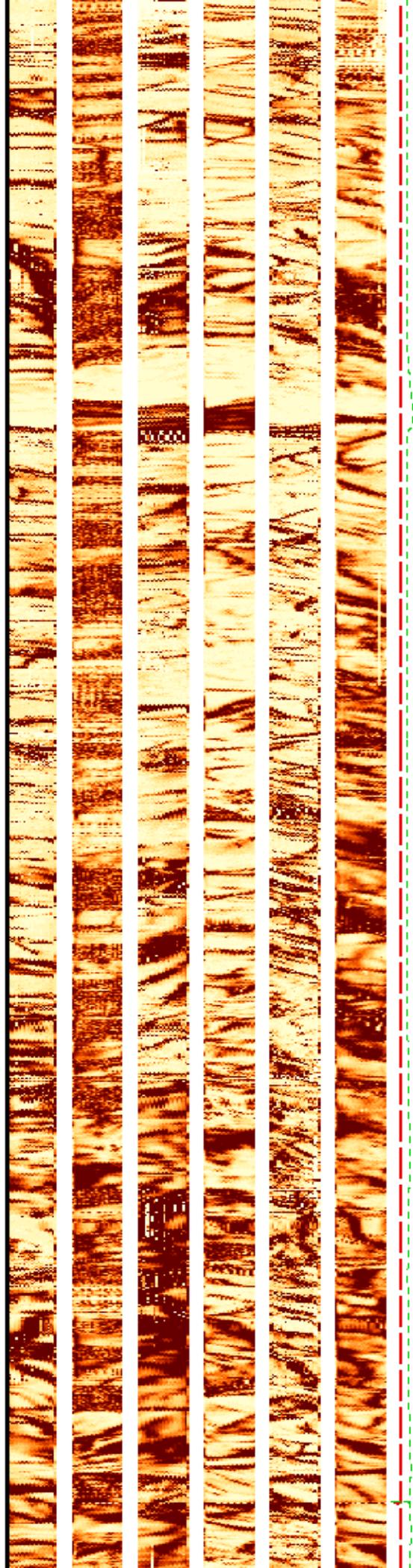
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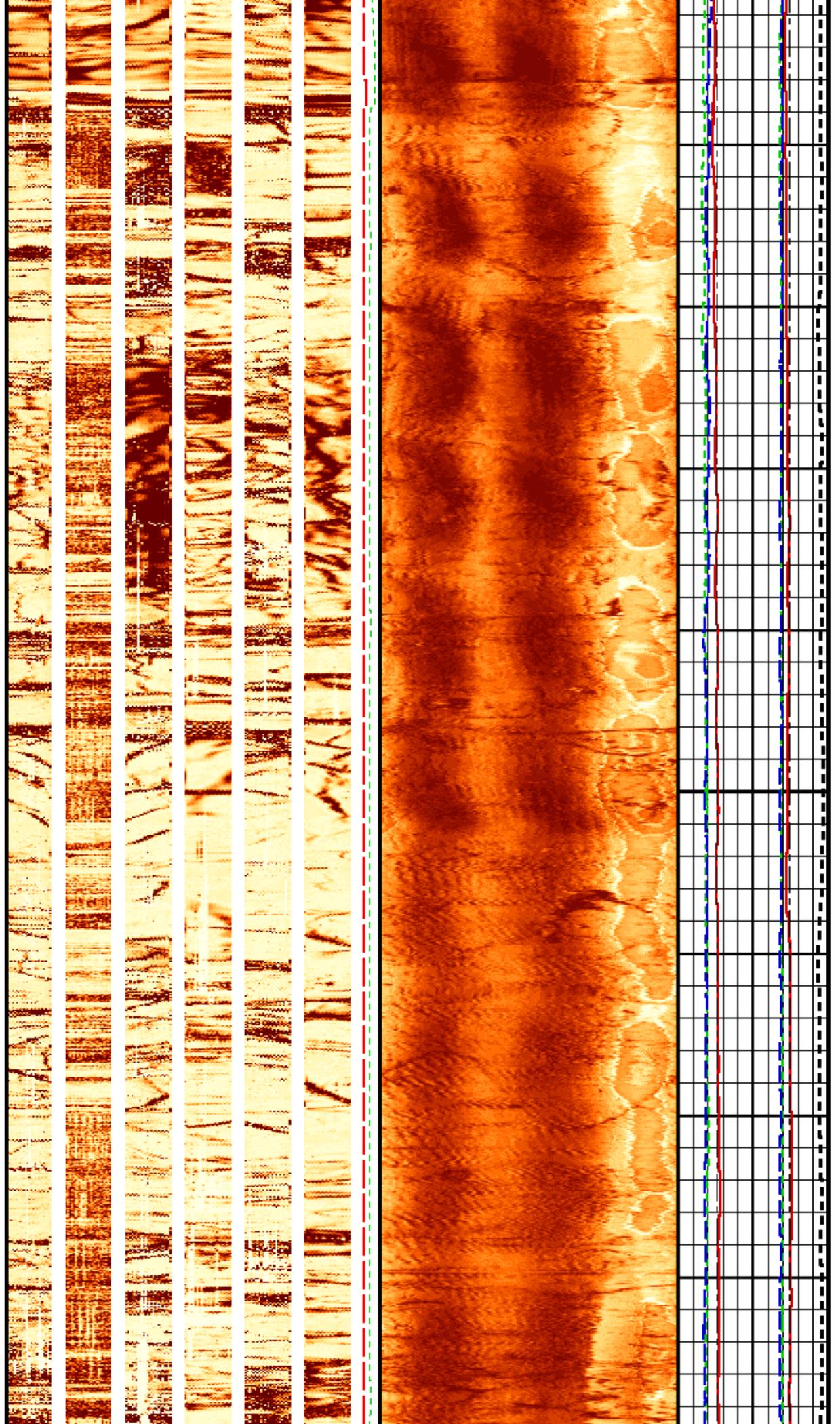




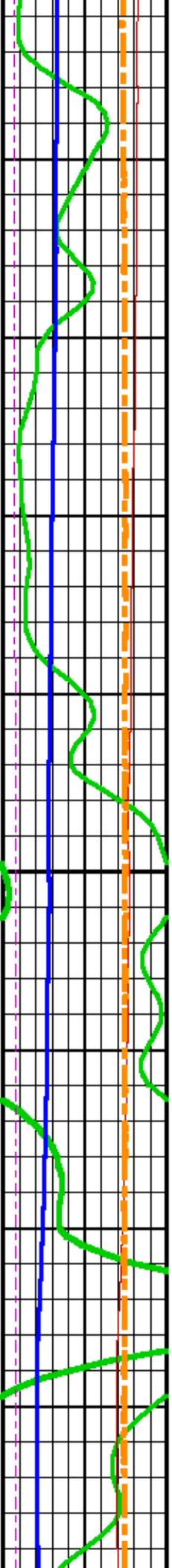
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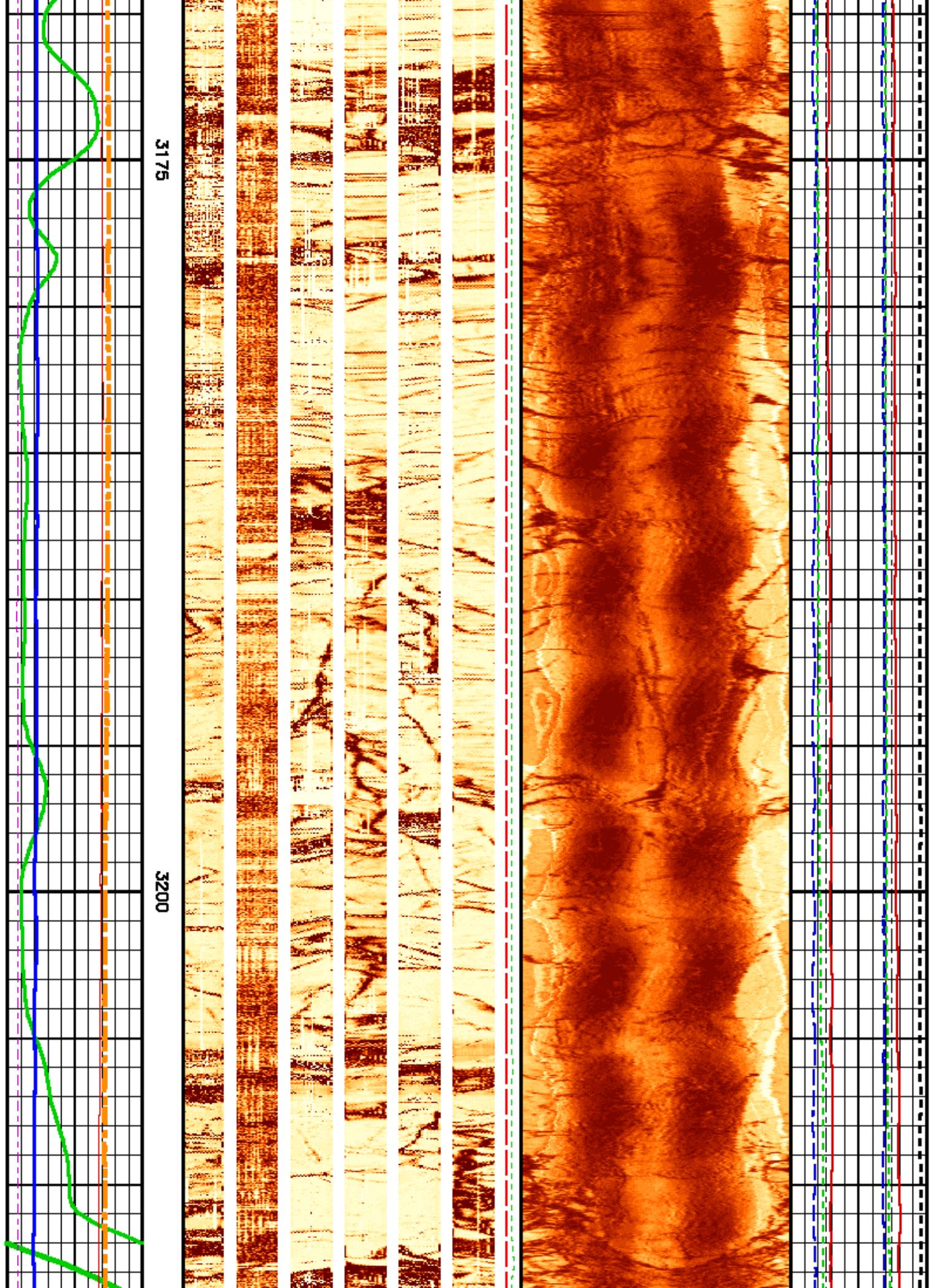
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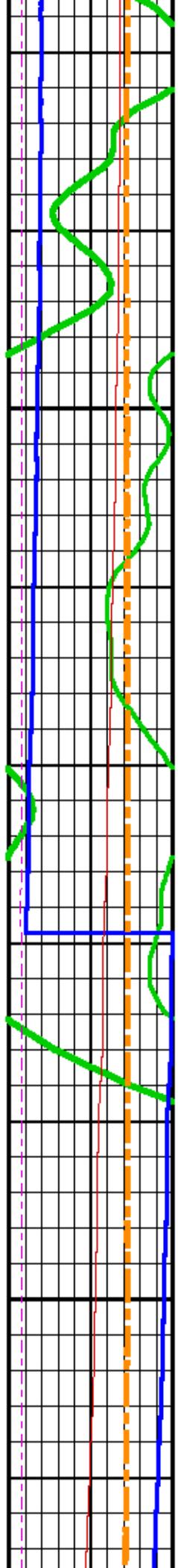




3150

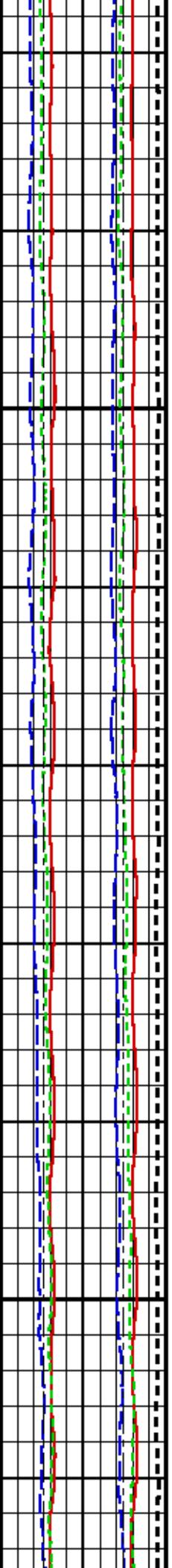
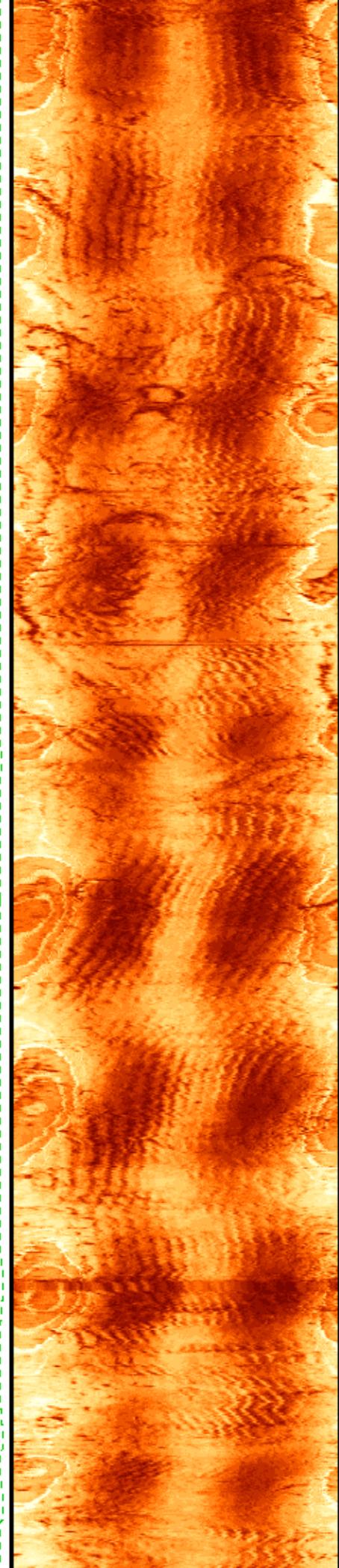
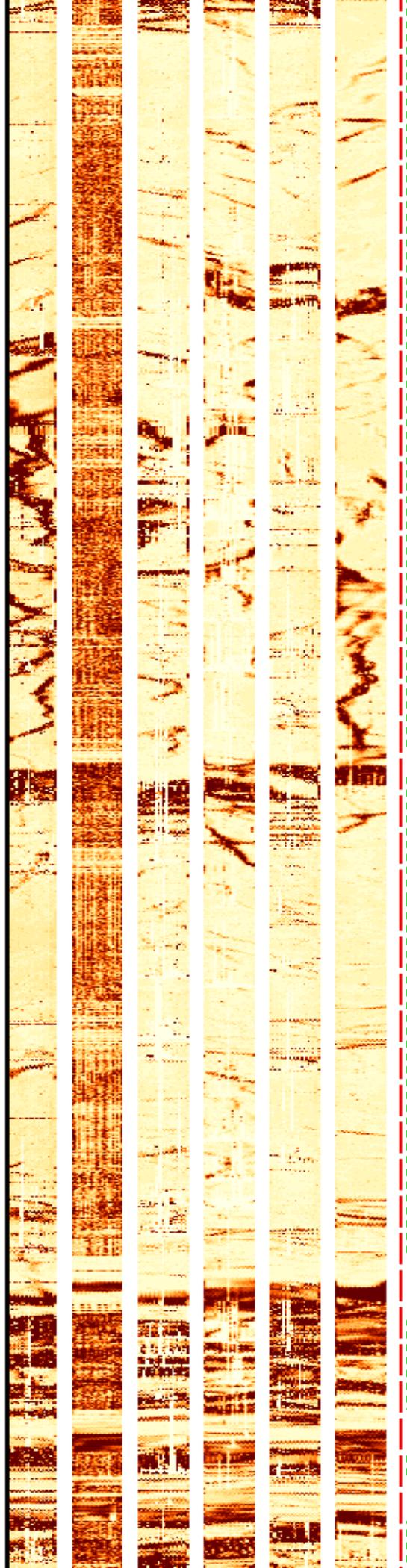


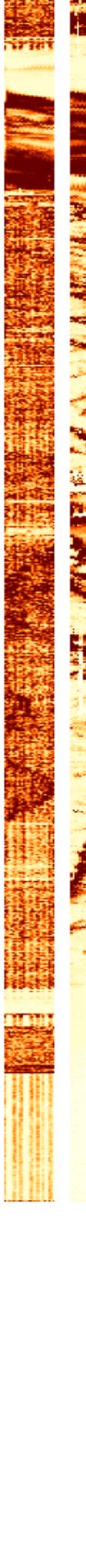
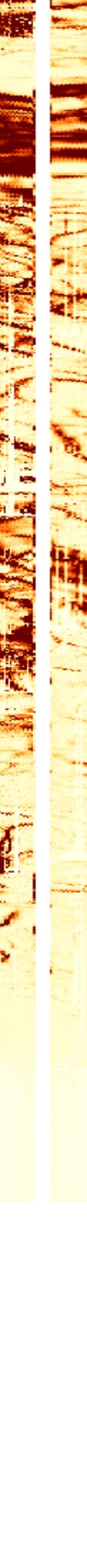
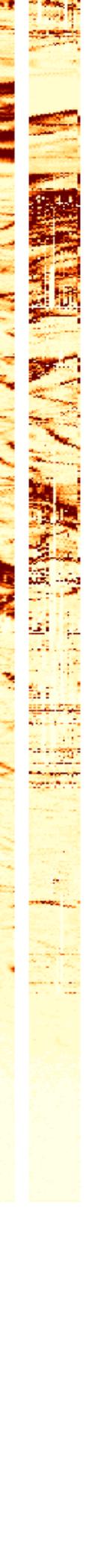
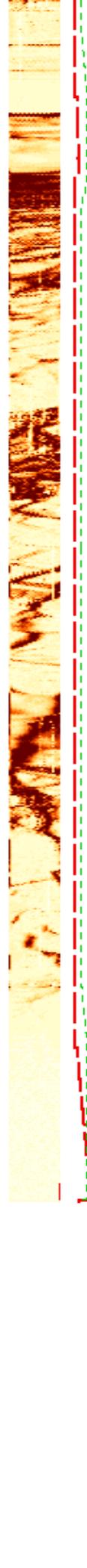
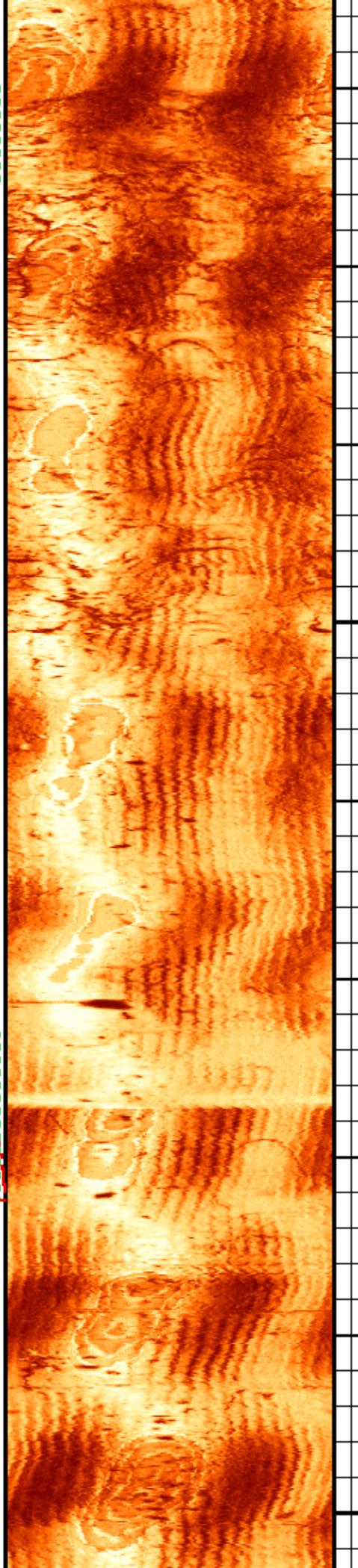
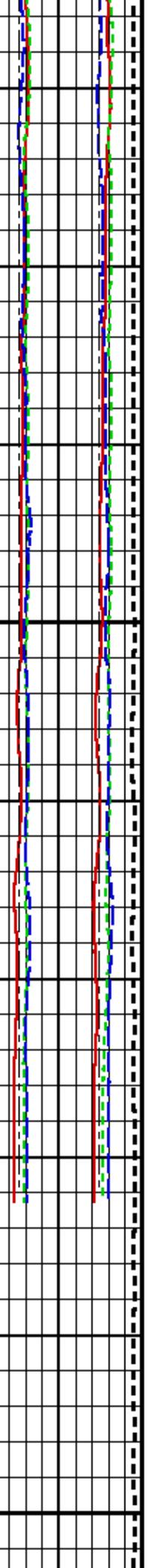
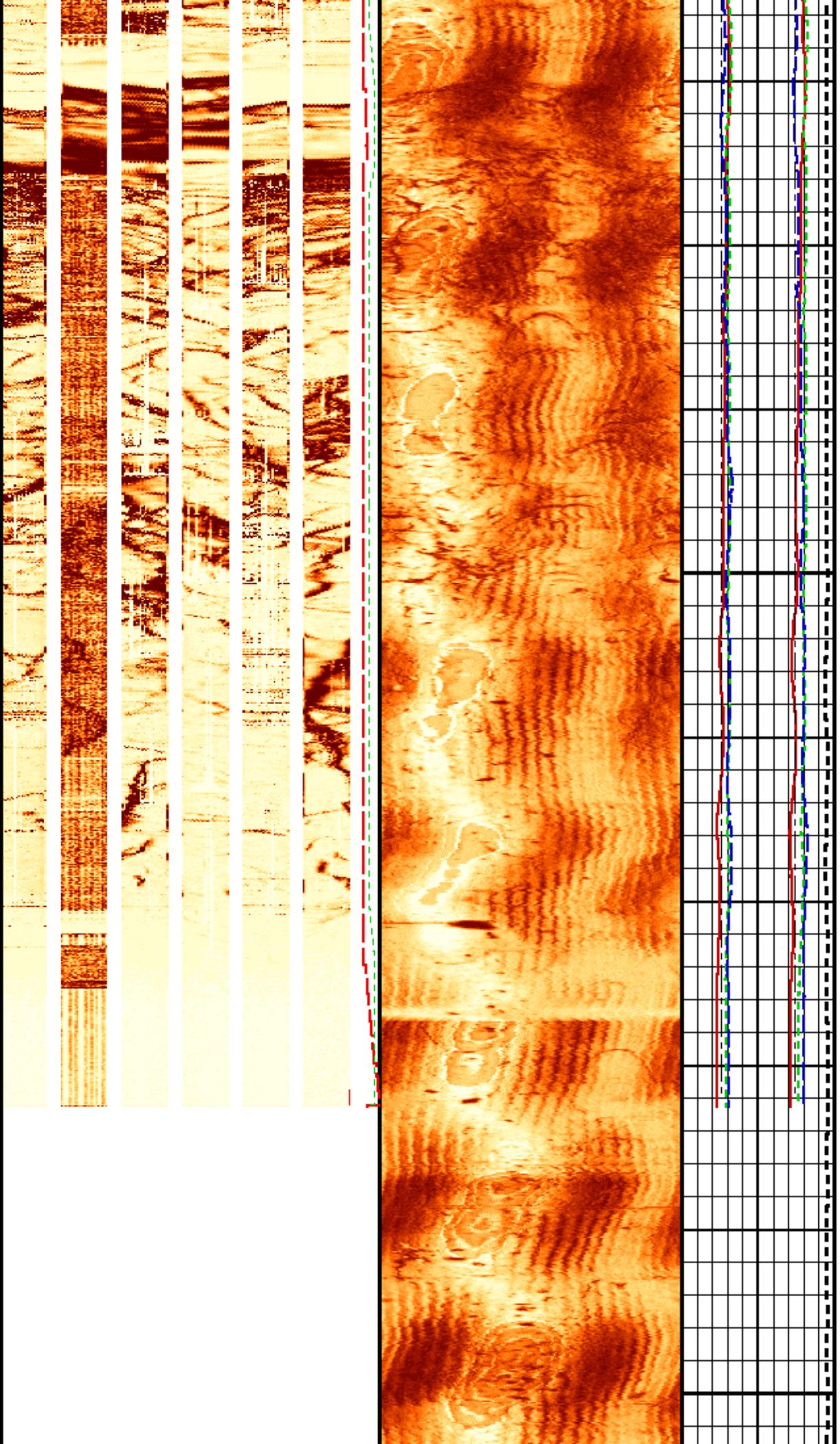




3225

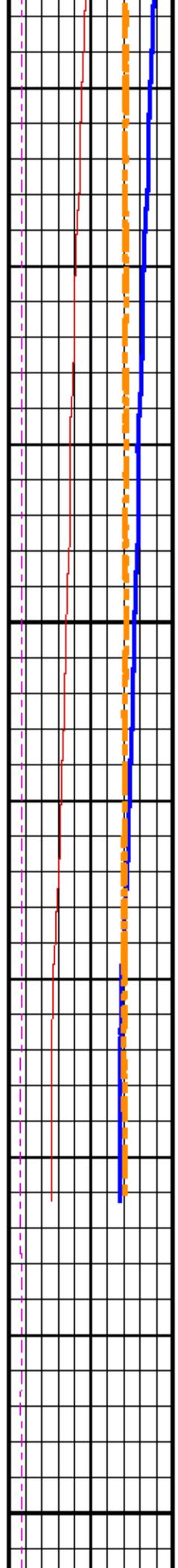
3250

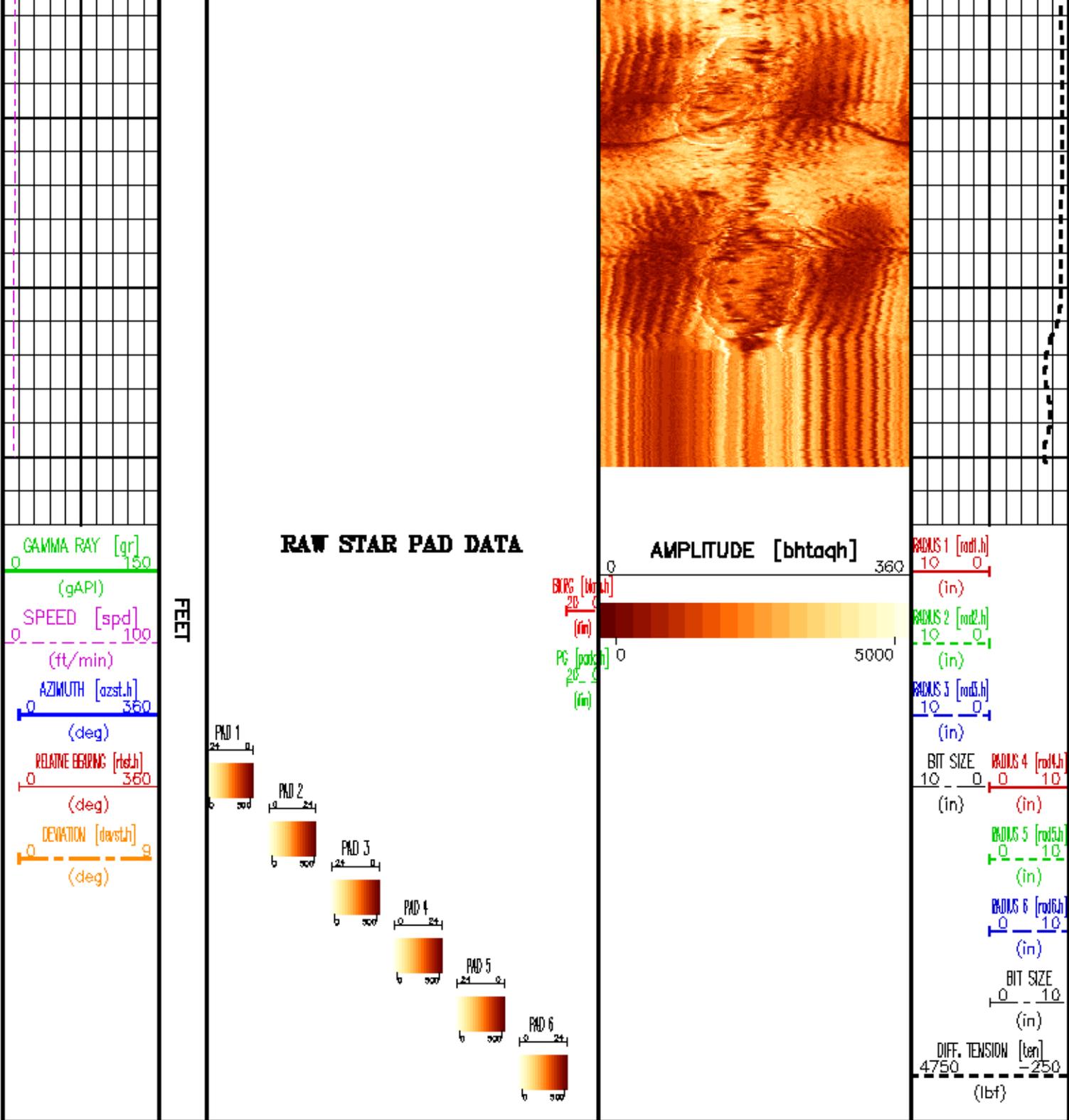




3275

3300





CALIBRATION / VERIFICATION SUMMARY

Source File: /data/573999/1037m.dat

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10203000

DATE/TIME PERFORMED: Sun Oct 25 14:28:31 2009

UNIT #: 3885TD ML4232

CALB JIG #: 4702NK DA-321

BACKGROUND CALIBR. ON CR. D.I.F.F. MULT. BACKGROUND CALIBR. ON CALIBR.

	BACKGROUND CALBRTR ON (cts/s)	GR DIFF (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	GR DIFF (gAPI)	BACKGROUND CALBRTR ON (gAPI)	GR DIFF (gAPI)
GR	289.02	1182.98	893.9	0.168	45.14	195.14	150
		830.0	980.0				

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10203000 DATE/TIME PERFORMED: Sun Oct 25 14:33:28 2009

UNIT #: 3885TD ML4232 VERI JIG #: 4702NK DA-321

	BACKGROUND CALBRTR ON (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	289.44	1191.73	0.168	45.21	199.97	154.76
						140.00 180.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10203000 DATE/TIME PERFORMED: Tue Nov 24 23:50:39 2009 DAYS SINCE CAL: 30

UNIT #: 3885TD ML4232 VERI JIG #: 4702NK DA-321

	BACKGROUND CALBRTR ON (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	255.24	1118.22	0.168	42.83	187.64	144.81
						144.76 159.76

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10203000 DATE/TIME PERFORMED: Wed Nov 25 02:09:11 2009 DAYS SINCE CAL: 30

UNIT #: 3885TD ML4232 VERI JIG #: 4702NK DA-321

	BACKGROUND CALBRTR ON (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	303.09	1132.69	0.168	50.86	190.06	139.21
						134.01 154.61

STARCAL PRIMARY CALIBRATION SUMMARY

TOOL #: 4236MA 17386B DATE/TIME PERFORMED: Fri Nov 20 11:48:56 2009

UNIT #: 3885TD ML4232

	SMALL RING (raw)	LARGE RING (raw)	MULT (in/raw)	ADD (in)	SMALL RING (in)	LARGE RING (in)
RADIUS 1	954.6	2363.3	0.0021	1.9671	4.000	7.000
RADIUS 2	1076.7	2485.3	0.0021	1.7071	4.000	7.000
RADIUS 3	995.6	2439.0	0.0021	1.9306	4.000	7.000
RADIUS 4	1005.9	2452.4	0.0021	1.9139	4.000	7.000
RADIUS 5	1059.6	2527.1	0.0020	1.8340	4.000	7.000
RADIUS 6	1110.8	2536.6	0.0021	1.6627	4.000	7.000
CALIPER 1					8.000	14.000
CALIPER 2					8.000	14.000
CALIPER 3					8.000	14.000

SMALL RING LARGE RING

PAD FORCE % 5.593 5.593

DC MOTOR V 0.1 0.1

STARCAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 4236MA 173868 DATE/TIME PERFORMED: Wed Nov 25 20:37:08 2009 DAYS SINCE CAL: 5

UNIT #: 3885TD ML4232

	I.D. (raw)	MULT	ADD	I.D. (in pct V)	CASING SIZE (in)
RADIUS 1	2011.7	0.00213	1.96707	6.251	
RADIUS 2	2135.5	0.00213	1.70710	6.255	
RADIUS 3	1423.3	0.00208	1.93065	4.889	
RADIUS 4	1008.3	0.00207	1.91392	4.005	
RADIUS 5	1011.0	0.00204	1.83397	3.901	
RADIUS 6	1552.2	0.00210	1.68267	4.929	
CALIPER 1				10.256	10.050
CALIPER 2				10.158	
CALIPER 3				9.818	
PAD FORCE				11.118	
DC MOTOR V				0.0	

STARCAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 4236MA 173868 DATE/TIME PERFORMED: Thu Nov 26 00:30:12 2009 DAYS SINCE CAL: 5

UNIT #: 3885TD ML4232

	I.D. (raw)	MULT	ADD	I.D. (in pct V)	CASING SIZE (in)
RADIUS 1	1367.4	0.00213	1.96707	4.879	
RADIUS 2	2158.2	0.00213	1.70710	6.303	
RADIUS 3	2074.8	0.00208	1.93065	6.243	
RADIUS 4	1445.3	0.00207	1.91392	4.911	
RADIUS 5	959.5	0.00204	1.83397	3.795	
RADIUS 6	1042.2	0.00210	1.68267	3.858	
CALIPER 1				9.791	10.050
				9.768	10.768
CALIPER 2				10.099	
				9.696	10.696
CALIPER 3				10.099	
				9.318	10.318
PAD FORCE				11.234	
DC MOTOR V				1.8	

STAR_OR PRIMARY CALIBRATION SUMMARY

TOOL #: 102NBX 173868 DATE/TIME PERFORMED: Sun Nov 22 14:39:12 2009

UNIT #: 3885TD ML4232 ORIENTATION #: 4401XB 10080238

	DEV (deg)	QA (mG)	MEAS RB (deg)	RB OFFSET (deg)	ROTATED RB (deg)
ORIT TBM CHECK	90.0	1000.2	0.6		
		880.0	1010.0		
STAR ORIENTATION			348.4	348.4	0.0

CBILB_OR PRIMARY CALIBRATION SUMMARY

TOOL #: 1671MB 183418 DATE/TIME PERFORMED: Sun Nov 22 14:41:08 2009

UNIT #: 3885TD ML4232 ORIENTATION #: 4401XB 10080238

	DEV (deg)	QA (mG)	MEAS RB (deg)	RB OFFSET (deg)	ROTATED RB (deg)
ORIT TBM CHECK	90.0	1000.2	0.6		
CBIL ORIENTATION		57.5	57.5	0.0	

CBIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1671MB 183418 DATE/TIME PERFORMED: Fri Sep 4 13:01:56 2009

UNIT #: 3885TD ML4232

	TT NEAR (us)	TT FAR (us)	DELAY TIME (us)	NEAR DIAMETER (in)	FAR DIAMETER (in)
1.5 in. XDCR	115.42	178.46	26.80	8.500	12.000
2.0 in. XDCR	433.05	793.20	-73.22	8.500	12.000

CBIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1671MB 183418 DATE/TIME PERFORMED: Wed Nov 25 20:38:03 2009 DAYS SINCE CAL: 82

UNIT #: 3885TD ML4232

	TVL TIME (us)	FL SLOWNESS (us/ft)	DELAY TIME (us)	CSG ID (in)	COMP CSG ID (in)	RADIUS (in)
1.5 in. XDCR	146.62	213.49	33.24	10.050	10.050	5.025
2.0 in. XDCR	143.49	212.86	32.19	10.050	10.050	5.025

CBIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1671MB 183418 DATE/TIME PERFORMED: Thu Nov 26 00:31:02 2009 DAYS SINCE CAL: 82

UNIT #: 3885TD ML4232

	TVL TIME (us)	FL SLOWNESS (us/ft)	DELAY TIME (us)	CSG ID (in)	COMP CSG ID (in)	RADIUS (in)
1.5 in. XDCR	148.21	214.25	33.24	10.050	10.107	5.053
2.0 in. XDCR	145.11	214.25	32.19	10.050	10.029	5.015

CBILMS PRIMARY CALIBRATION SUMMARY

TOOL #: 1671MB 183418 DATE/TIME PERFORMED: Fri Sep 4 11:52:04 2009

UNIT #: 3885TD ML4232

	FL TVL TIME (us)	MULT (1/ft)	ADD (us/ft)	FL SLOWNESS (us/ft)	FLTT ERROR (us)
CBIL FLUID CELL	41.22	4.80	5.93	203.79	-1.24

LIQUID TYPE (1 = Water)	LIQUID TEMP (degF)	LIQ SLOWNESS (us/ft)	SPACING (in)	EXP TVL TIME (us)
1	74.9	203.79	1.250	42.46
2				

INSTRUMENT CONFIGURATION

Source File: /dal/a/575886/k837m\COSD-kdg

CABLEHEAD

Series : CABL338
Mnemonic : CBLH
Diameter : 3.38"
Weight : 24 lbs
Length : 5.50'

DOWNHOLE POWER ADAPTER

Series : 4430XB
Mnemonic : DHPA
Diameter : 3.62"
Weight : 86 lbs
Length : 5.27'

SWIVEL

Series : 3844XD
Mnemonic : SWVL

TTRM SUB

Series : 3881XA
Mnemonic : TTRM
Diameter : 3.63"

WTS COMMON REMOTE

Series : 3514XB
Mnemonic : WTS
Diameter : 3.63"
Weight : 128 lbs
Length : 6.36'

DIGITAL SPECTRALOG

Series : 1328XA
Mnemonic : DSL
Diameter : 3.63"
Weight : 130 lbs
Length : 7.31'

DIGITAL ORIENTATION

Series : 4401XB
Mnemonic : ORIT
Diameter : 3.38"
Weight : 110 lbs
Length : 10.81'

C8PC IMAGER POWER SUPPLY

Series : 1022PA
Mnemonic : C8PC
Diameter : 3.62"
Weight : 116 lbs
Length : 9.08'



95.40'

CABLEHEAD TOP 92.85'

TEMP MP 78.84'
RM MP 78.59'

GR MP 65.38'

ORIENT MP 52.98'

CBPC IMAGER ELECTRONICS

Series : 1036EA
 Mnemonic : CBPC
 Diameter : 3.82"
 Weight : 94 lbs
 Length : 9.08'

CBPC IMAGER MANDREL

Series : 4236MA
 Mnemonic : CBPC
 Diameter : 5.25"
 Weight : 278 lbs
 Length : 12.50'

ISOLATION RETURN SUB

Series : 3892XA

KNUCKLE JOINT (DOUBLE)

Series : 3838XA
 Mnemonic : KNJT
 Diameter : 3.38"
 Weight : 90 lbs

DIGITAL CBIL ELECTRONICS

Series : 1671EB
 Mnemonic : CBIL
 Diameter : 3.38"
 Weight : 120 lbs
 Length : 7.48'

DIGITAL CBIL MANDREL

Series : 1671MB
 Mnemonic : CBIL
 Diameter : 3.83"
 Weight : 150 lbs
 Length : 7.81'

BULL PLUG 3 3/8

TOTAL LENGTH: 95.40'
 TOTAL WEIGHT: 1481 lbs
 MAX DIAMETER: 0'5.25"



PAD MP — 25.82'

MUD MP — 3.55'

IMAGE MP — 1.81'

0.00'



COMPANY SIERRA GEOTHERMAL POWER, INC.
 WELL ALUM 25-29
 FIELD ALUM
 COUNTY ESMERALDA STATE NEVADA

FILE NO: _____
 API NO: 27-009-80074

Baker Atlas



LOCATION:
 SHL: 2235.18' FSL & 938.11' FWL
 SW/C
 SEC 29 TWP 1N RGE 38.5 E

ELEVATIONS:
 KB 4819.57 FT
 DF
 GL 4803.57 FT
 DATE 25-NOV-2009

TIGHT HOLE

