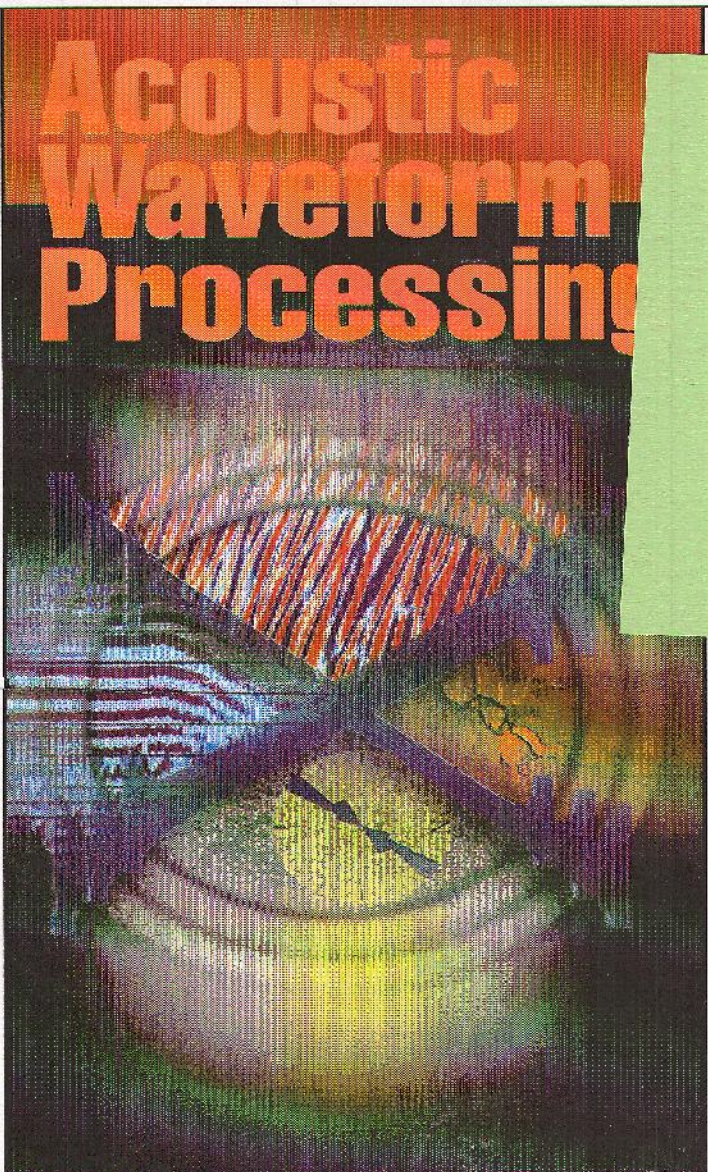


Red Brook #2  
Slowness analysis



Baker Atlas



## SLOWNESS ANALYSIS

COMPANY VULCAN MINERALS INC.

WELL VULCAN INVESTCAN RED BROOK #2

FIELD BAY ST. GEORGE BASIN

PROVINCE NEWFOUNDLAND AND LABRADOR

LOCATION:

LAT 48.2679591667 LONG -58.7501141667

ELEVATIONS:

KB 63.4 M DF 57.1 M

DATE 25-NOV-2009 ECC 210569

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.

### BOREHOLE RECORD

BIT SIZE	FROM	TO
444.5 MM	0.0 M	220.2 M

### CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	71.4 KG/M	J-55	0.0 M	220.2 M



311.0 MM	220.2 M	895.0 M
216.0 MM	895.0 M	1965.0 M
NA	NA	NA

244.5 MM	64.7 KG/M	L-80	0.0 M	331.8 M
177.8 MM	NA	J-55	NA	895.0 M
		NA	NA	NA

## REMARKS

LOG ANALYST WEI JIANG

## EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	2	SWIVEL	3944XA	73677	FREE
2	2	PWR ADAPTR	4430XB	10156399	FREE
2	2	TIRM	3981XA	369687	FREE
2	2	COMM RMT	3514XB	186131	FREE
2	2	GR/DSL	1329XB	370830	FREE
2	2	ORIT	4401XB	10115896	FREE
2	2	XMAC ELEC	1667EA	153337	CENTRALIZED
2	2	XMAC RX MAN	1678MA	189391	CENTRALIZED
2	2	XMAC ISO	1668PA	172683	CENTRALIZED
2	2	XMAC TX	1668BA	188362	CENTRALIZED
2	2	XMAC EL	1668FA	154044	CENTRALIZED

## Computed Slowness Curves 1:240

## CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 18:18:32 2009	BIT SIZE
F1:CAL	CAL	Nov 25 18:18:32 2009	CALIPER
F1:DTC	DTC	Nov 30 10:23:24 2009	COMPRESSIONAL WAVE SLOWNESS
F1:DTS	DTS	Nov 30 10:23:39 2009	SHEAR WAVE SLOWNESS
F1:GR	GR	Nov 25 18:18:32 2009	GAMMA RAY

Project : /data/jianwei/210569\_vulcan\_xmac  
 User : jianwei  
 Presentation : calsunsv3:/data/jianwei/210569\_vulcan\_xmac/xmac.dt.pdf [1:240 Scale]  
 Plot Interval : 840 - 1966.72 Meters

Data File 1 : F1 : calsunsv3:/data/jianwei/210569\_vulcan\_xmac/slowness.xtf  
 Created On : Nov 25 13:16:58 2009  
 Company : VULCAN MINERALS INC.  
 Well : VULCAN INVESTCAN RED BROOK #2  
 Field : RED BROOK  
 File Interval : 774.878 - 1966.72 Meters  
 Oct : ku833k



# GR BACKUP

Bit Size

125 (mm) 375

Caliper [cal]

125 (mm) 375

Gamma Ray [gr]

0 (gAPI) 150

METERS

850

875

Shear/Comp Ratio [scra]  
0 4

Compressional Slowness [dts]

900

100

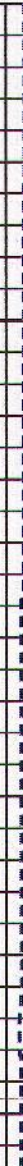
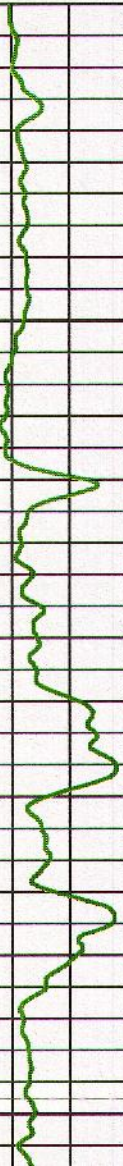
(us/m)

Shear Slowness [dts]

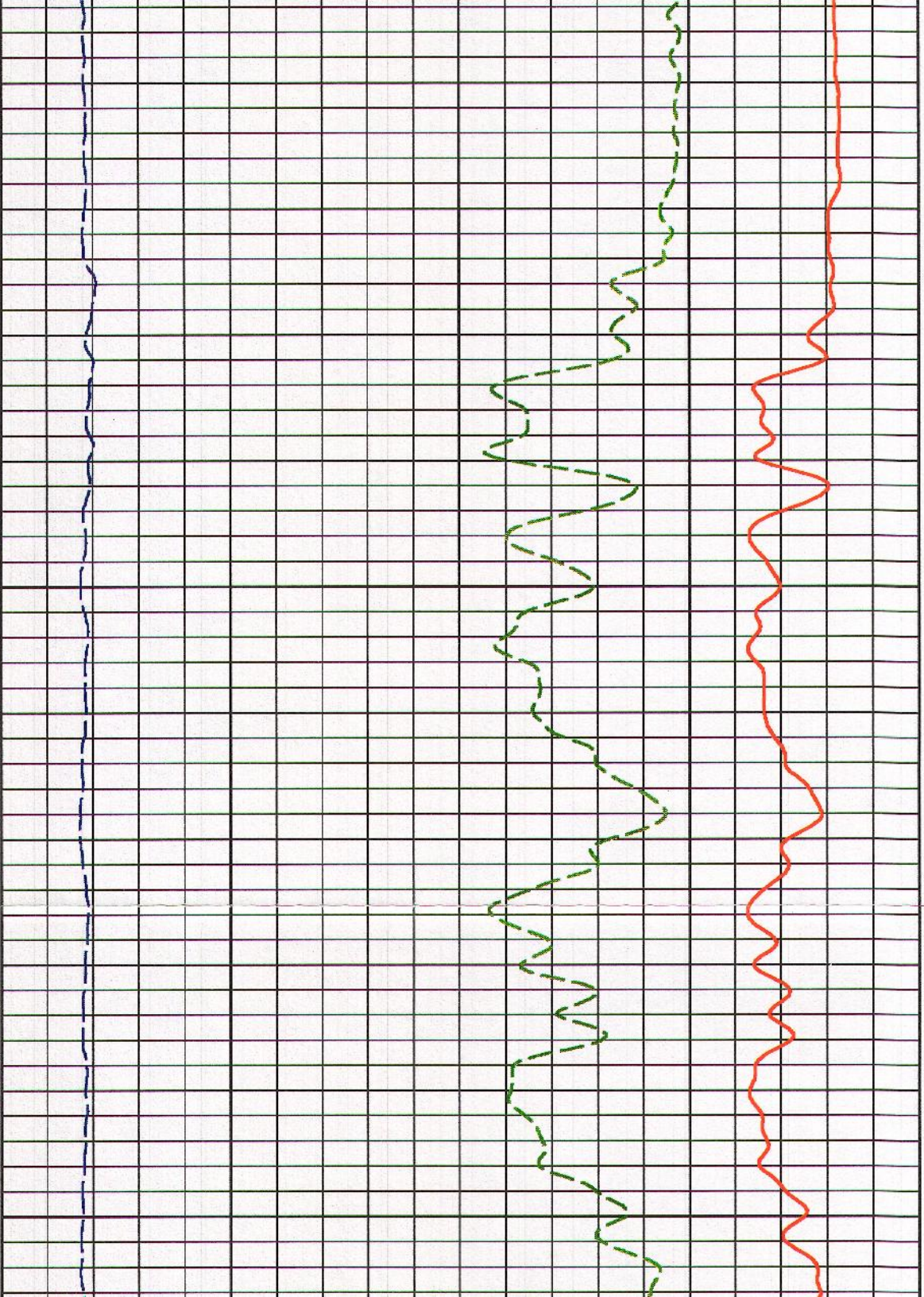
900

100

(us/m)

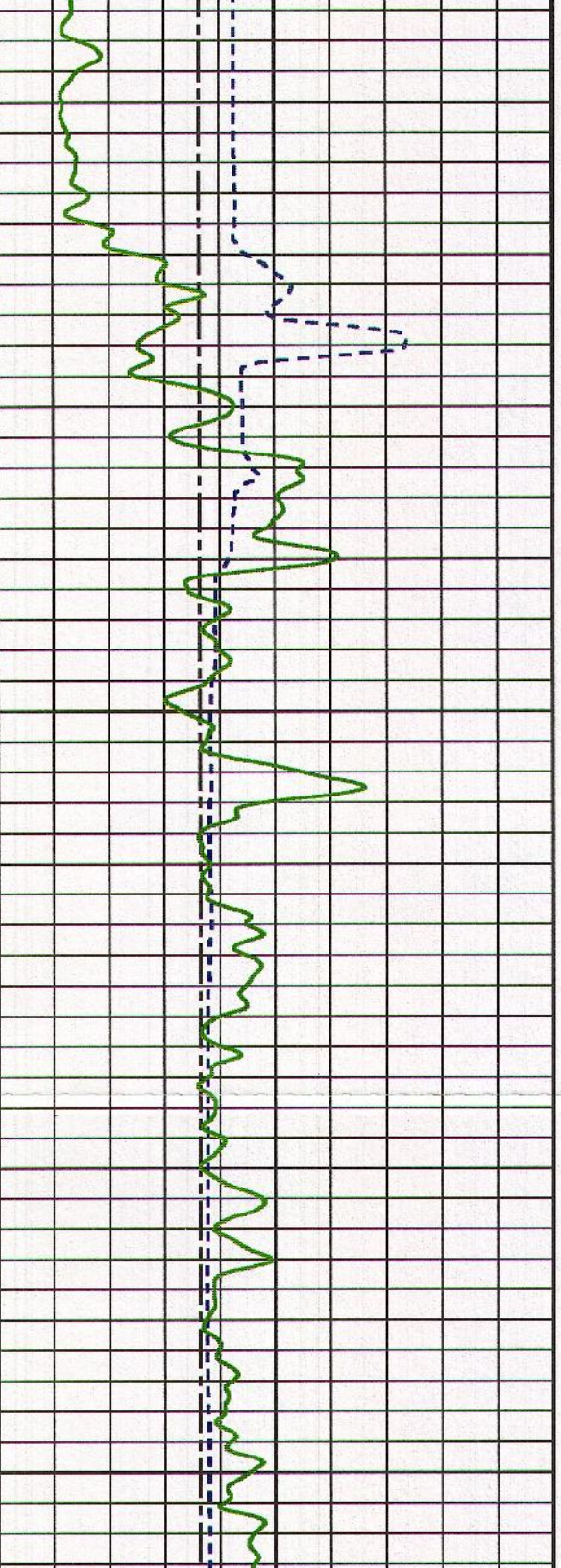




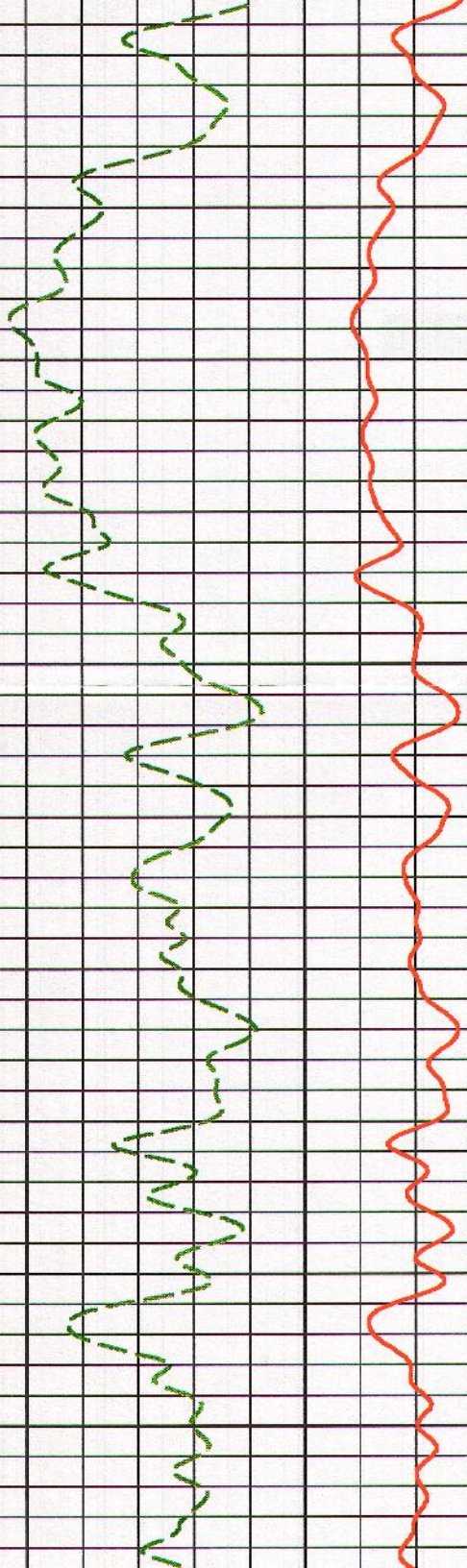


900

925

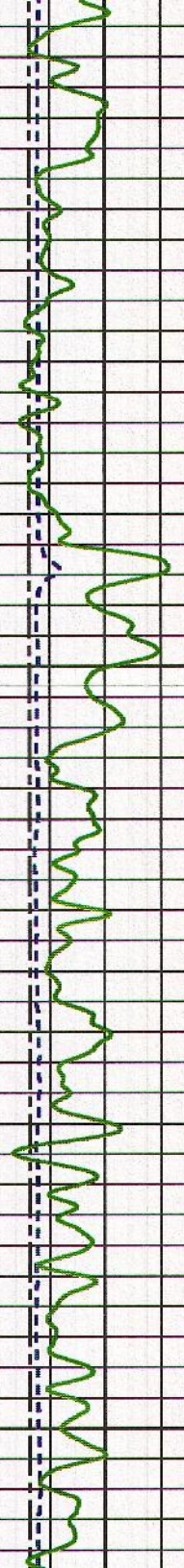




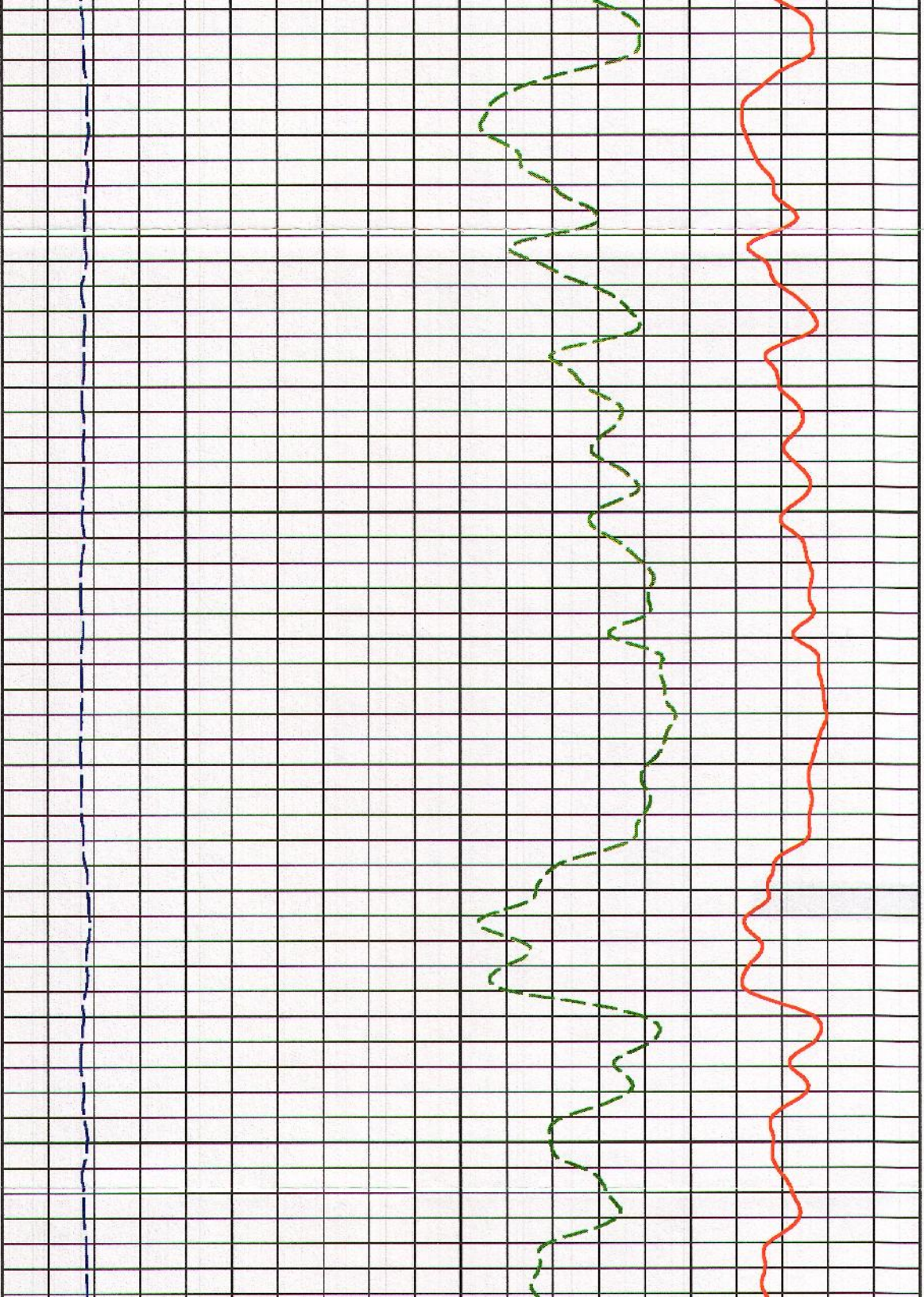


950

975

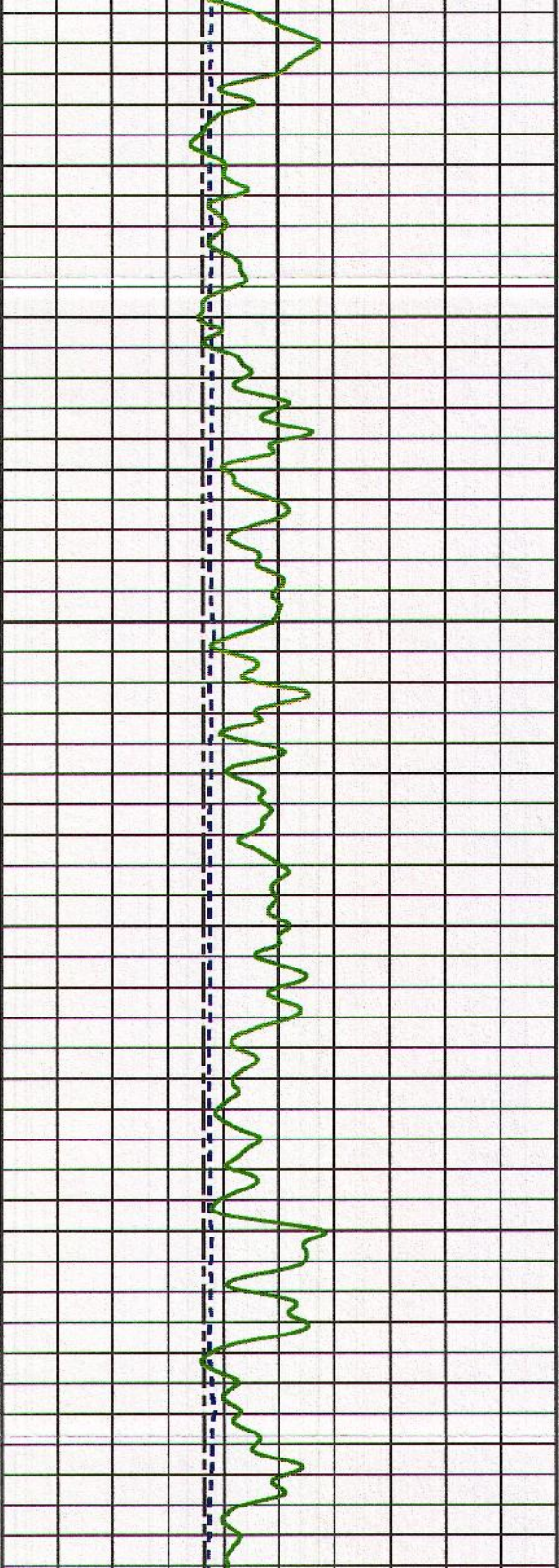




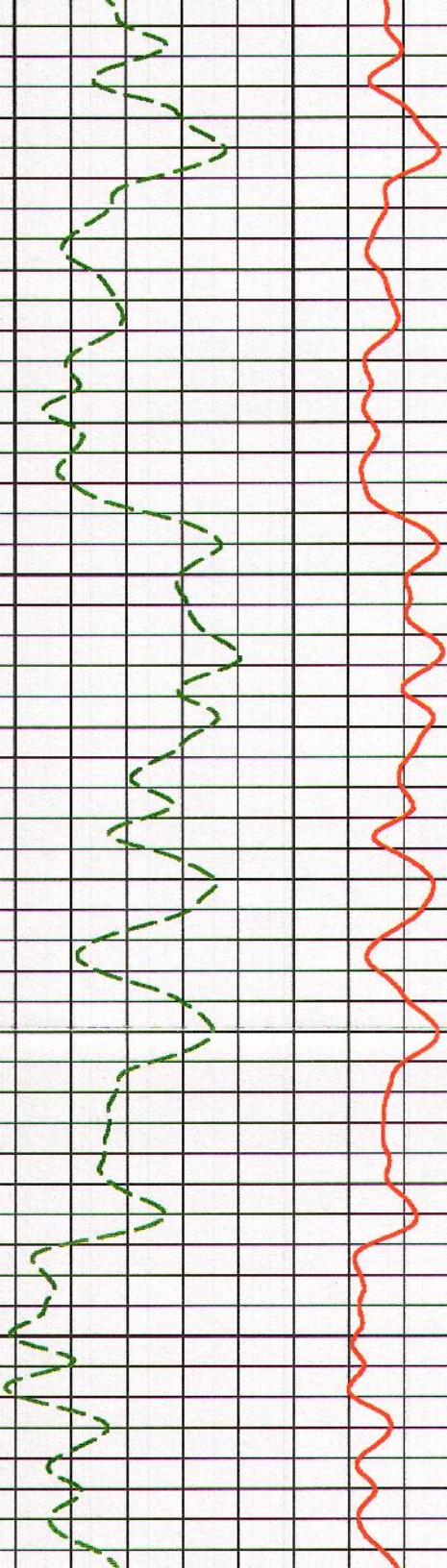


1000

1025

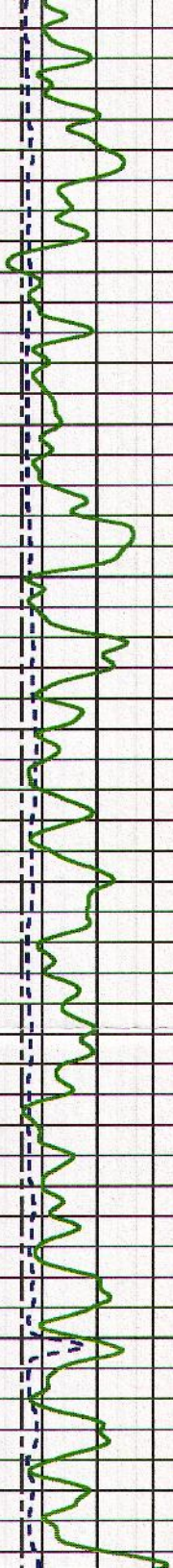




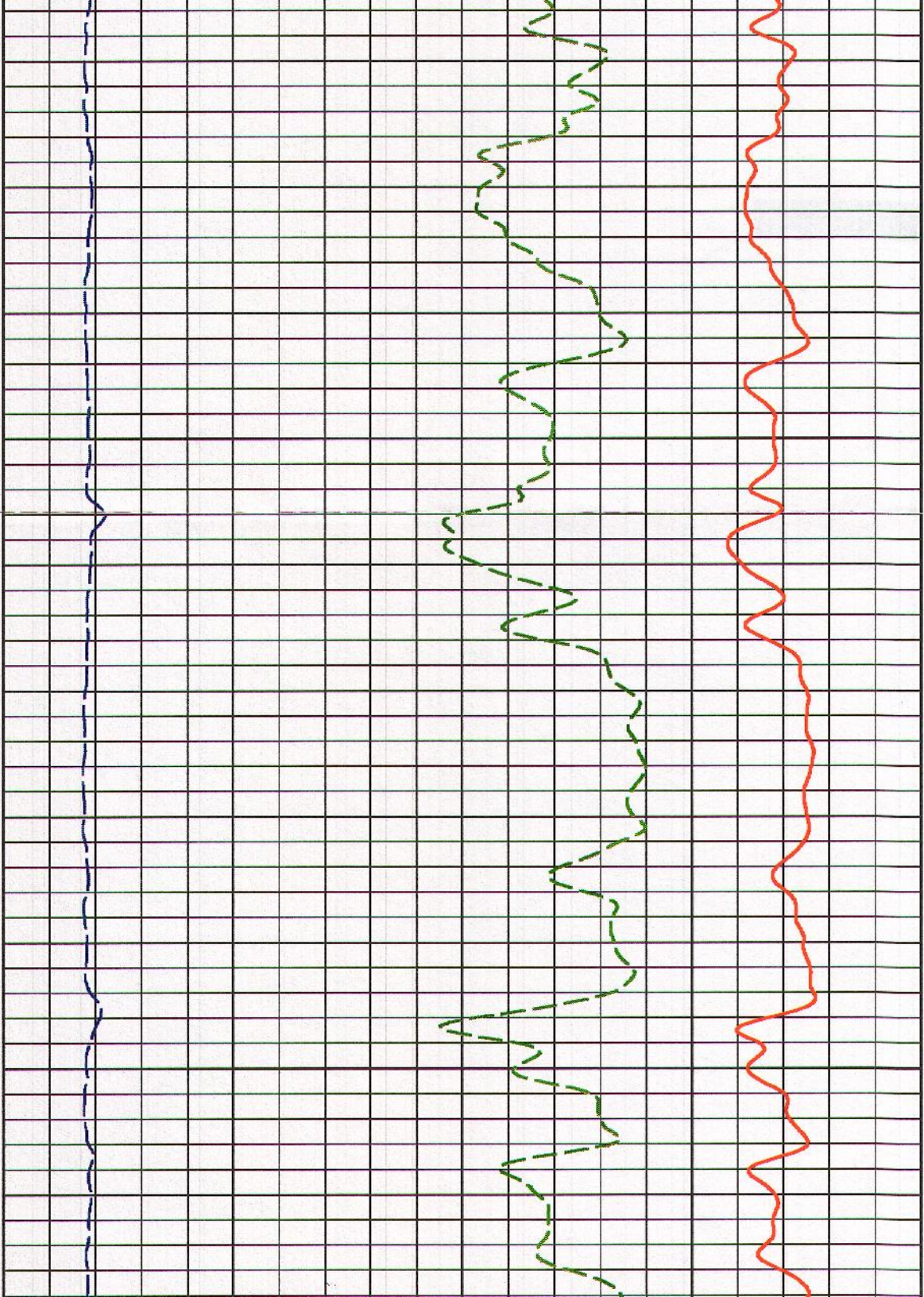


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1075

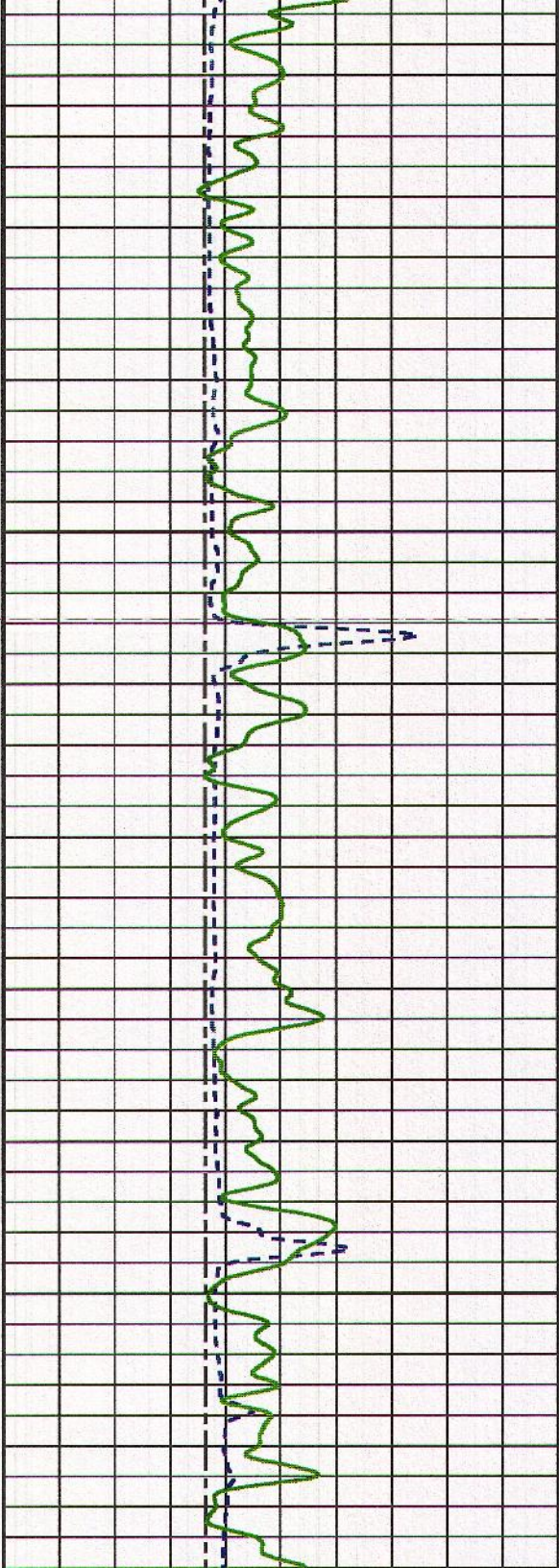




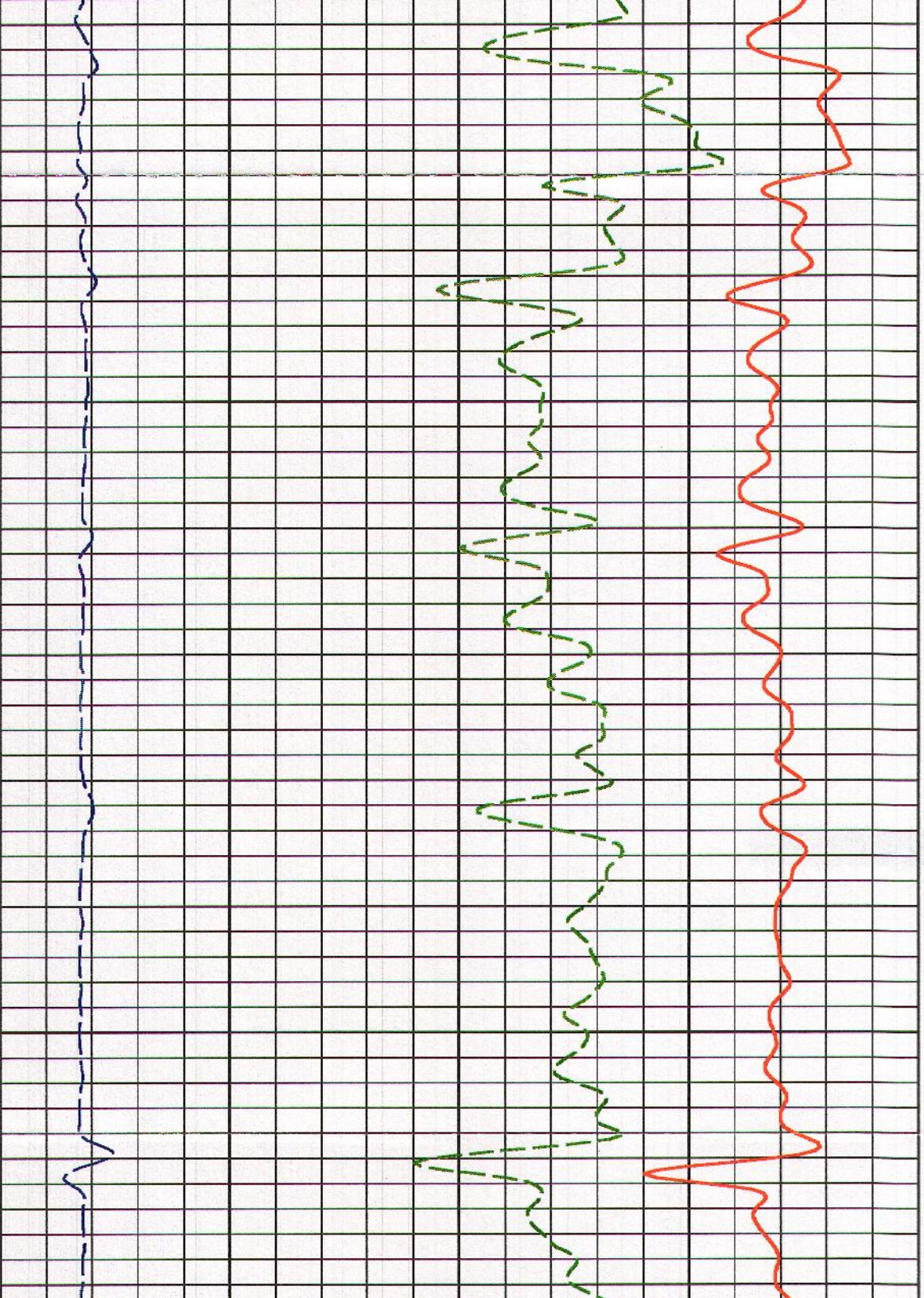


1100

1125

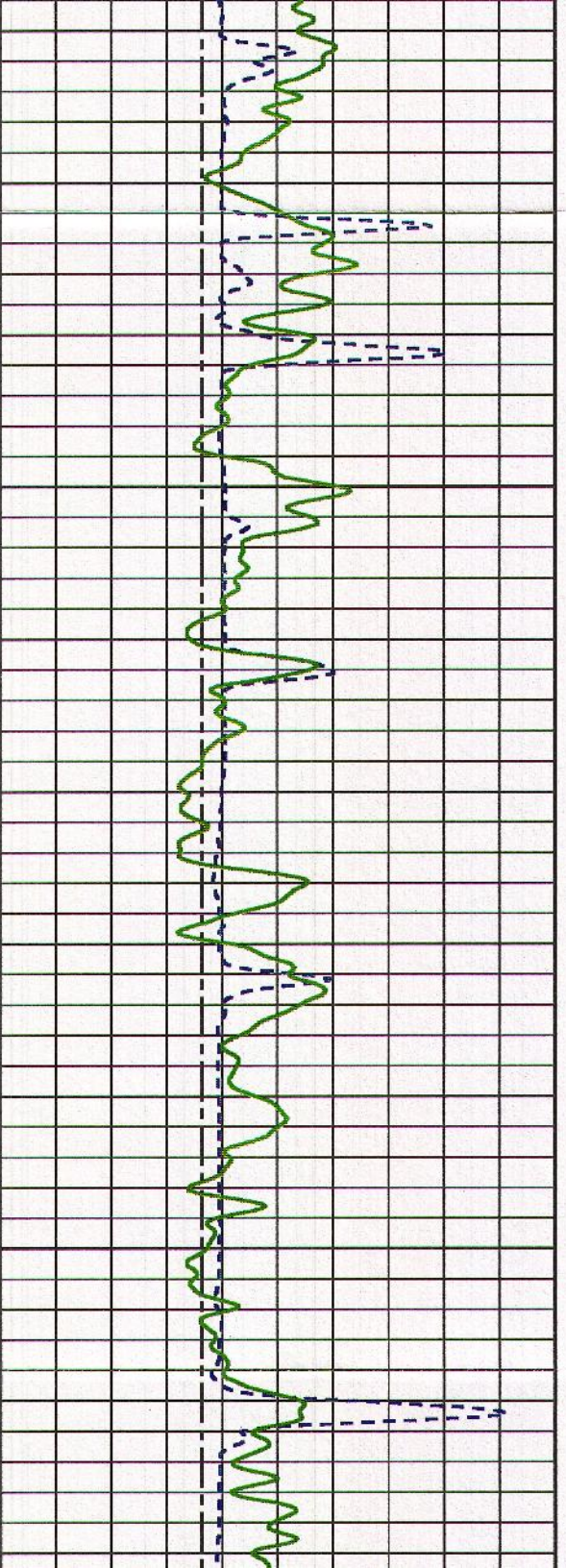




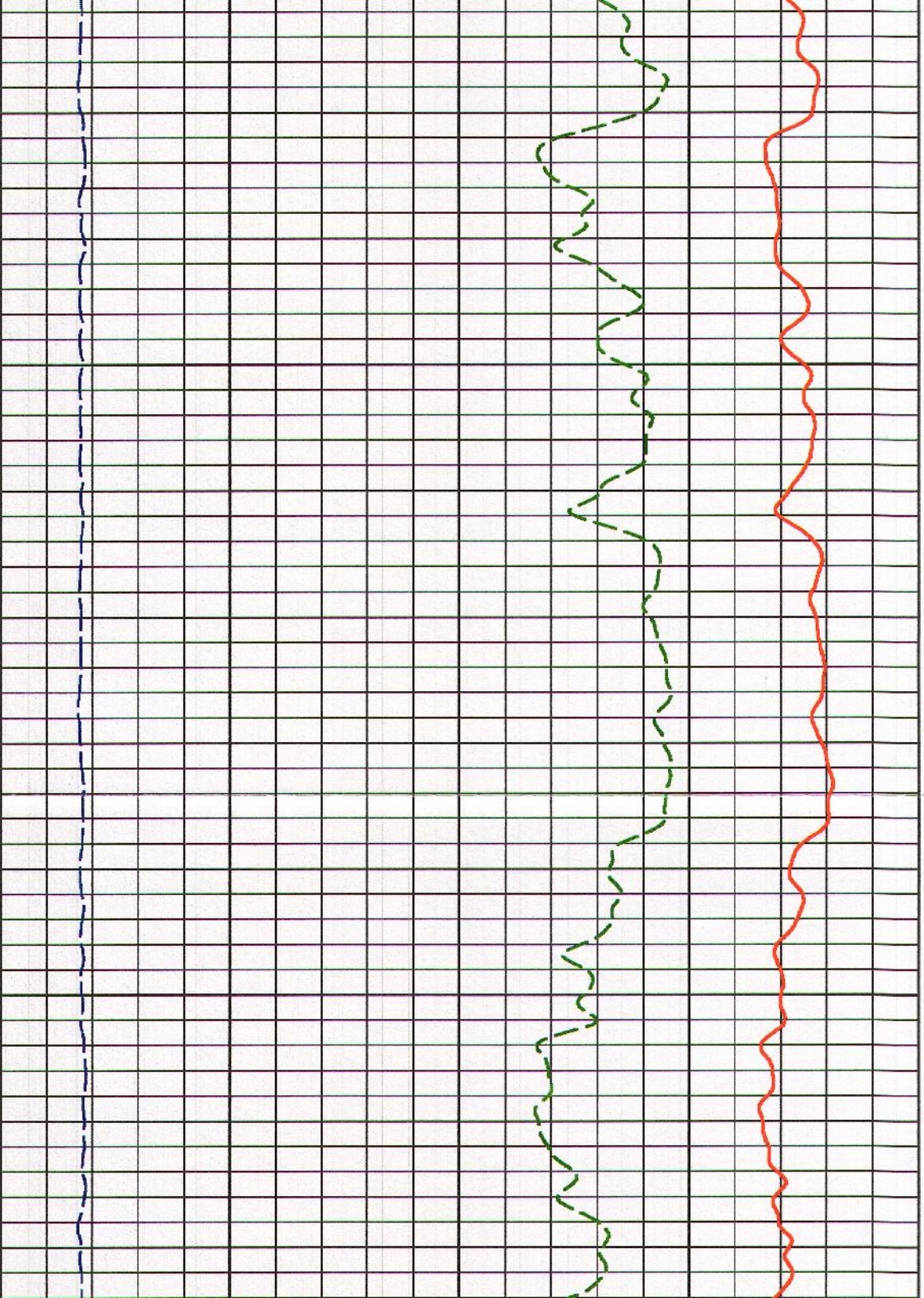


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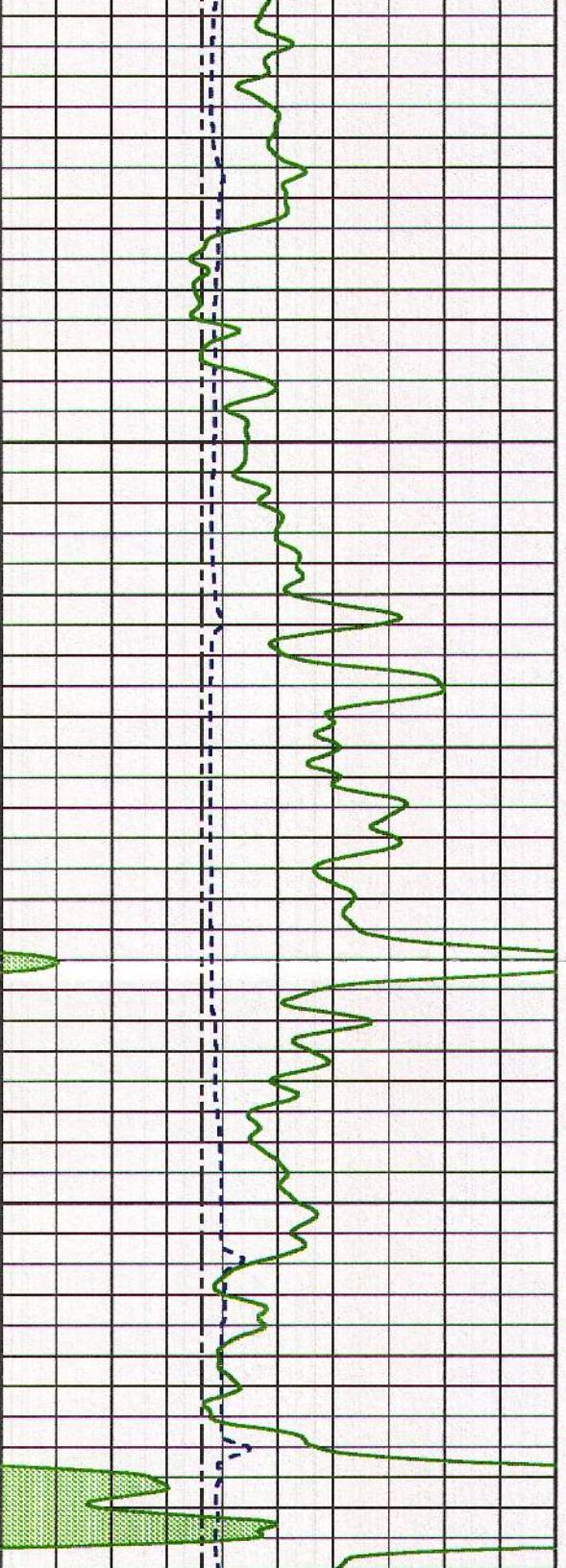




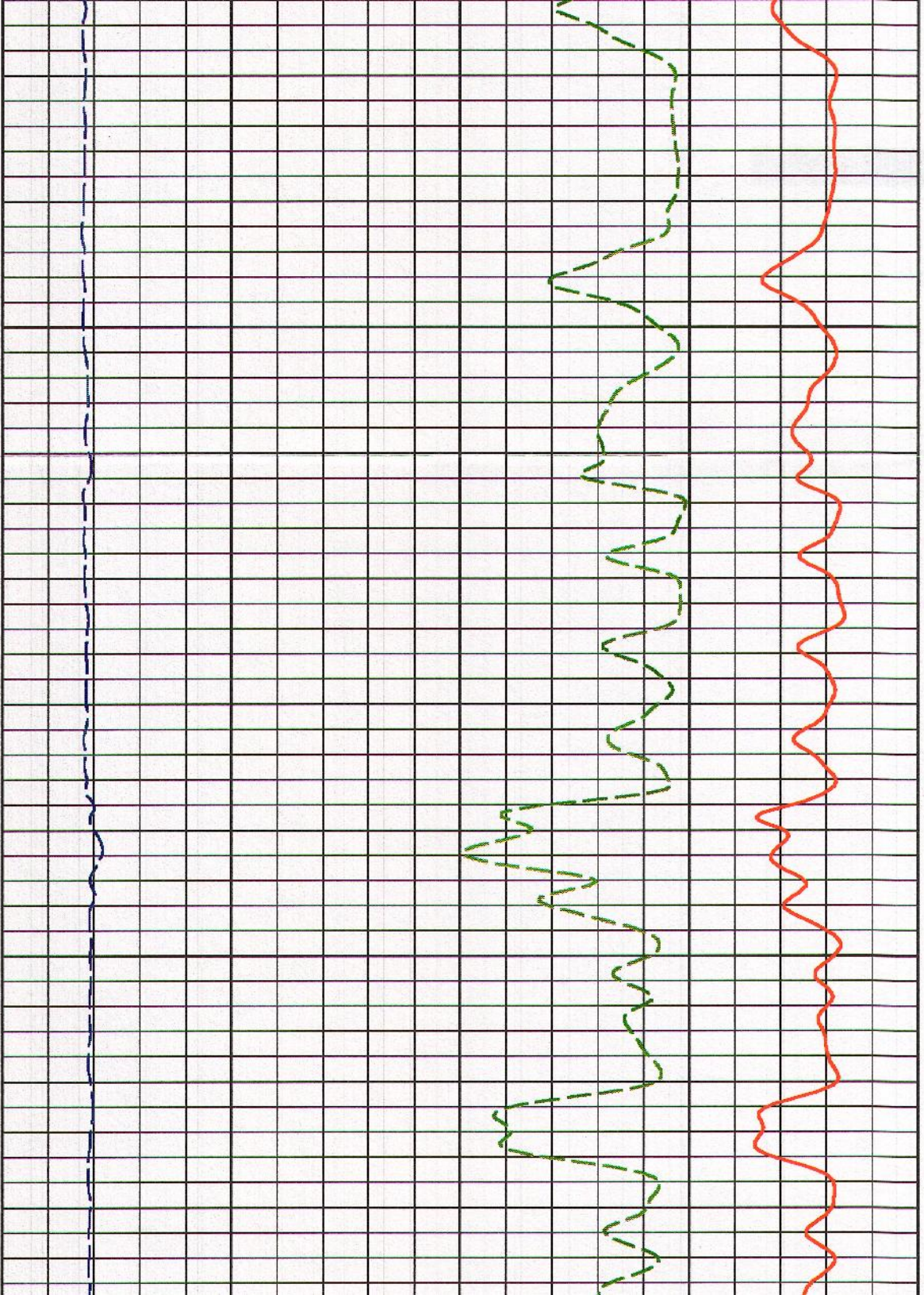


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1225

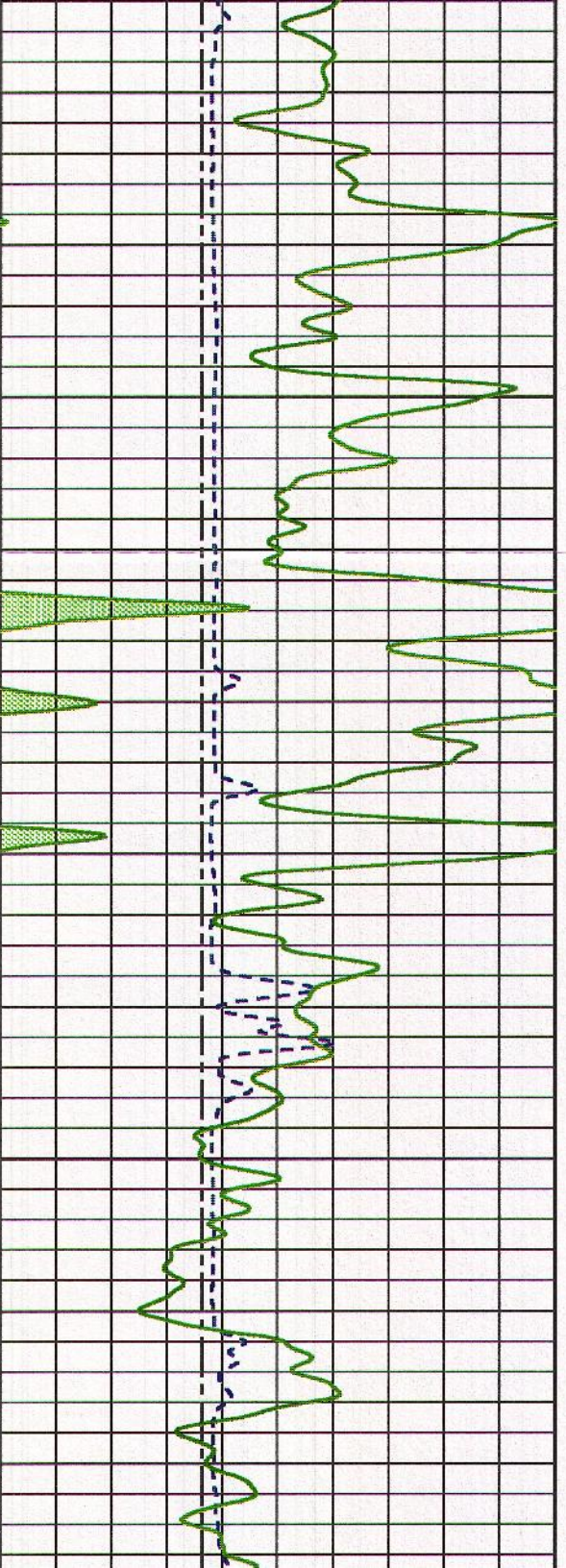




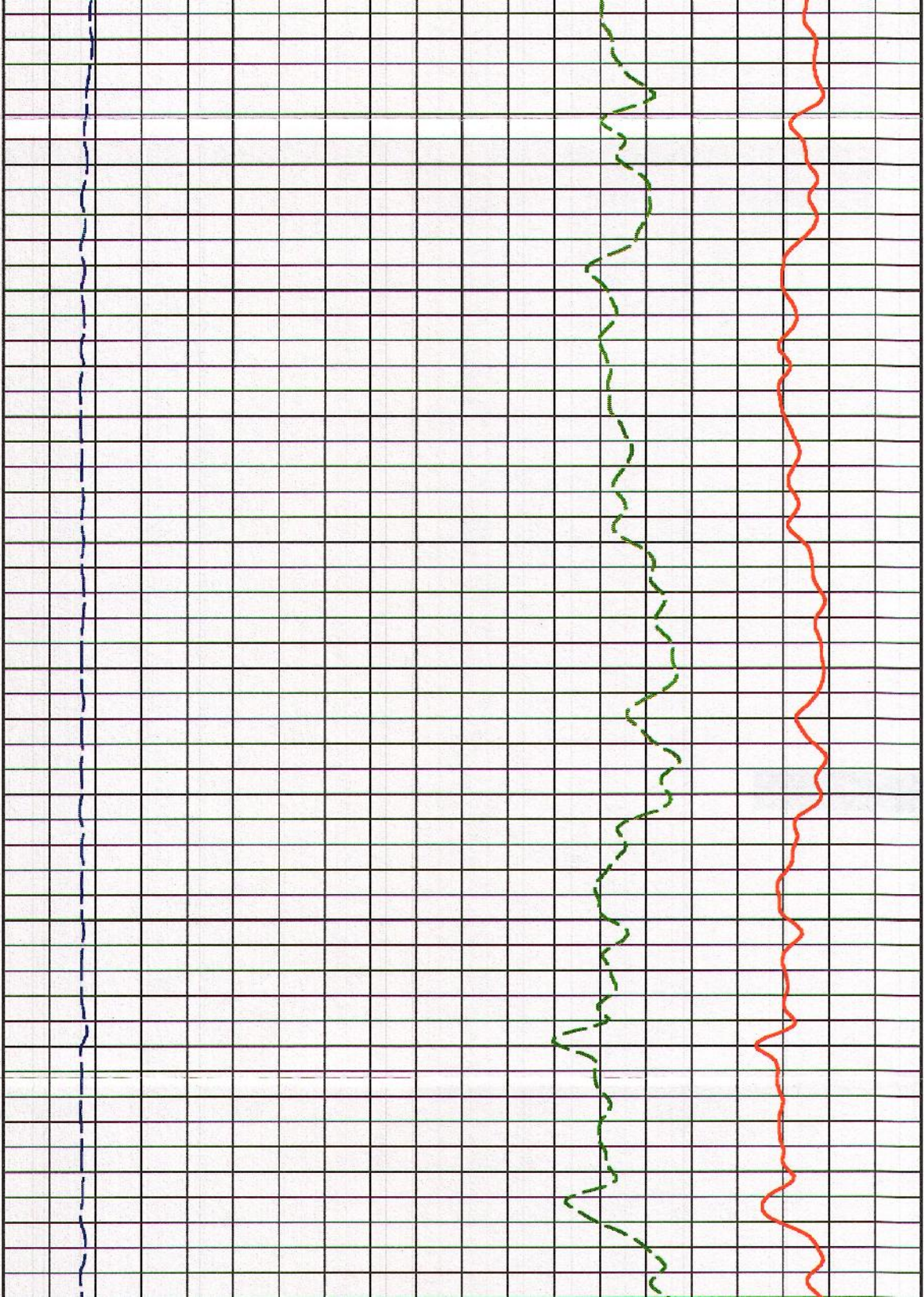


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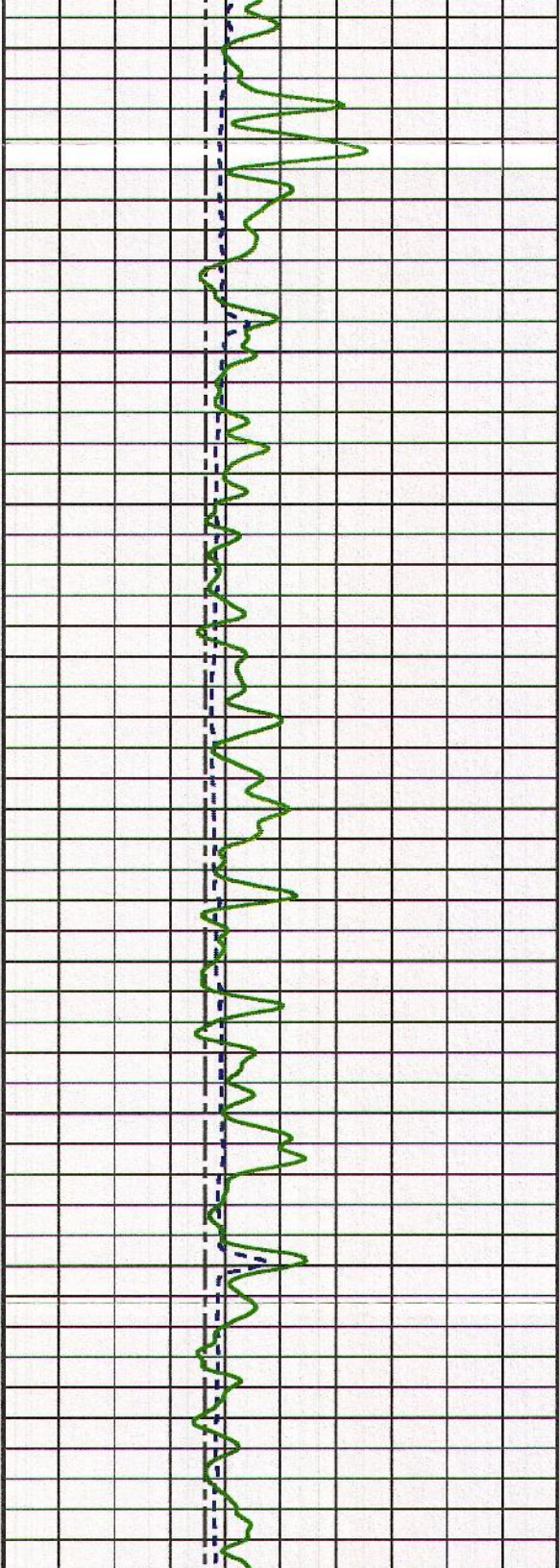




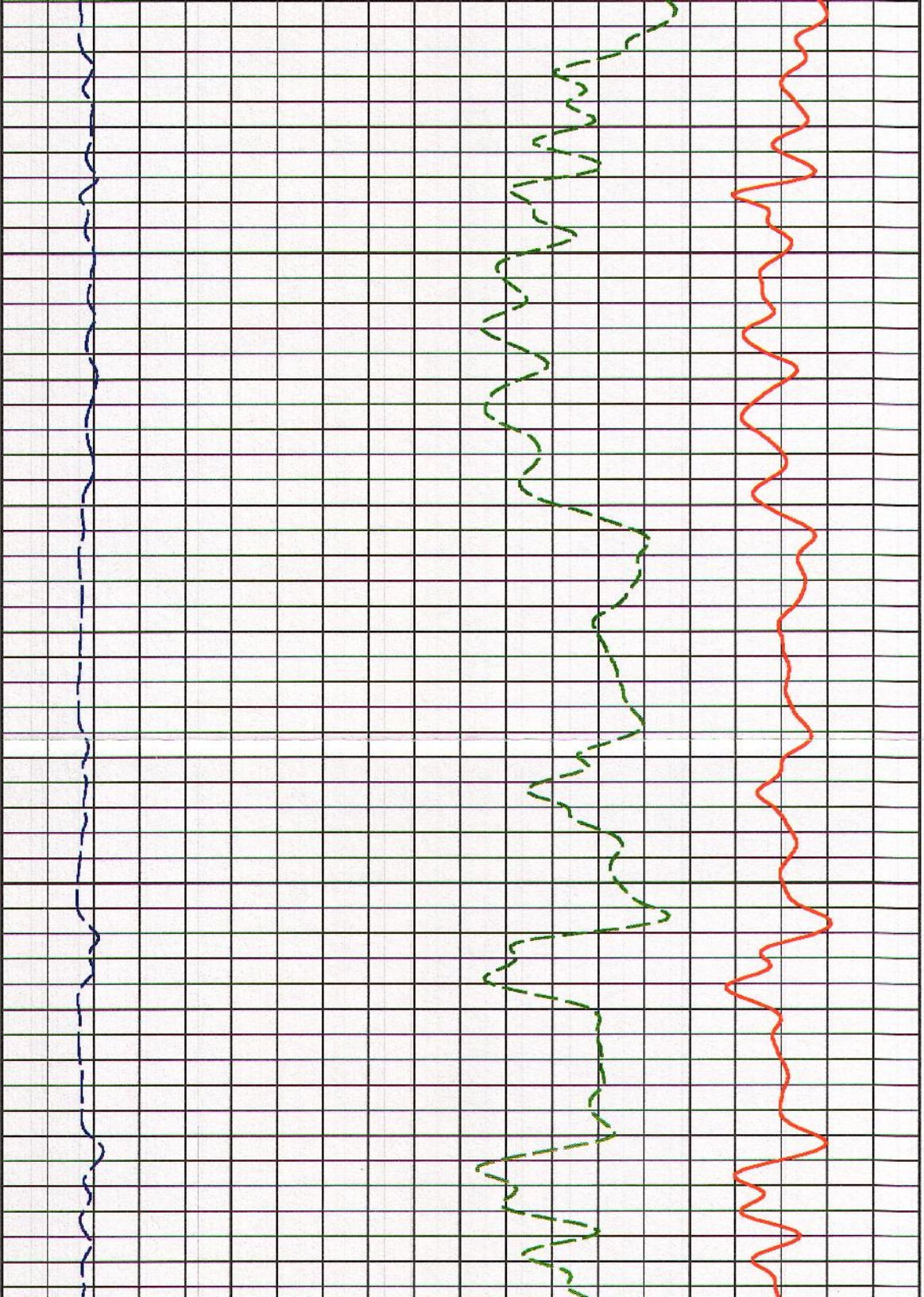


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1325

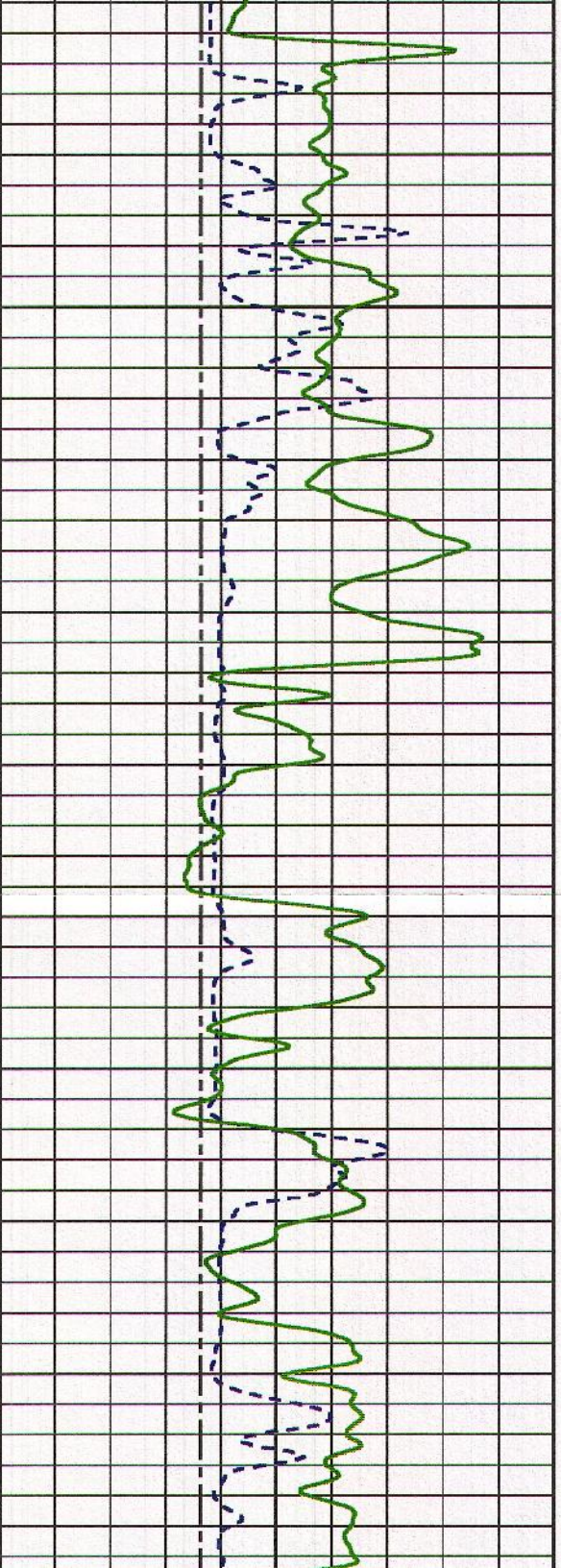




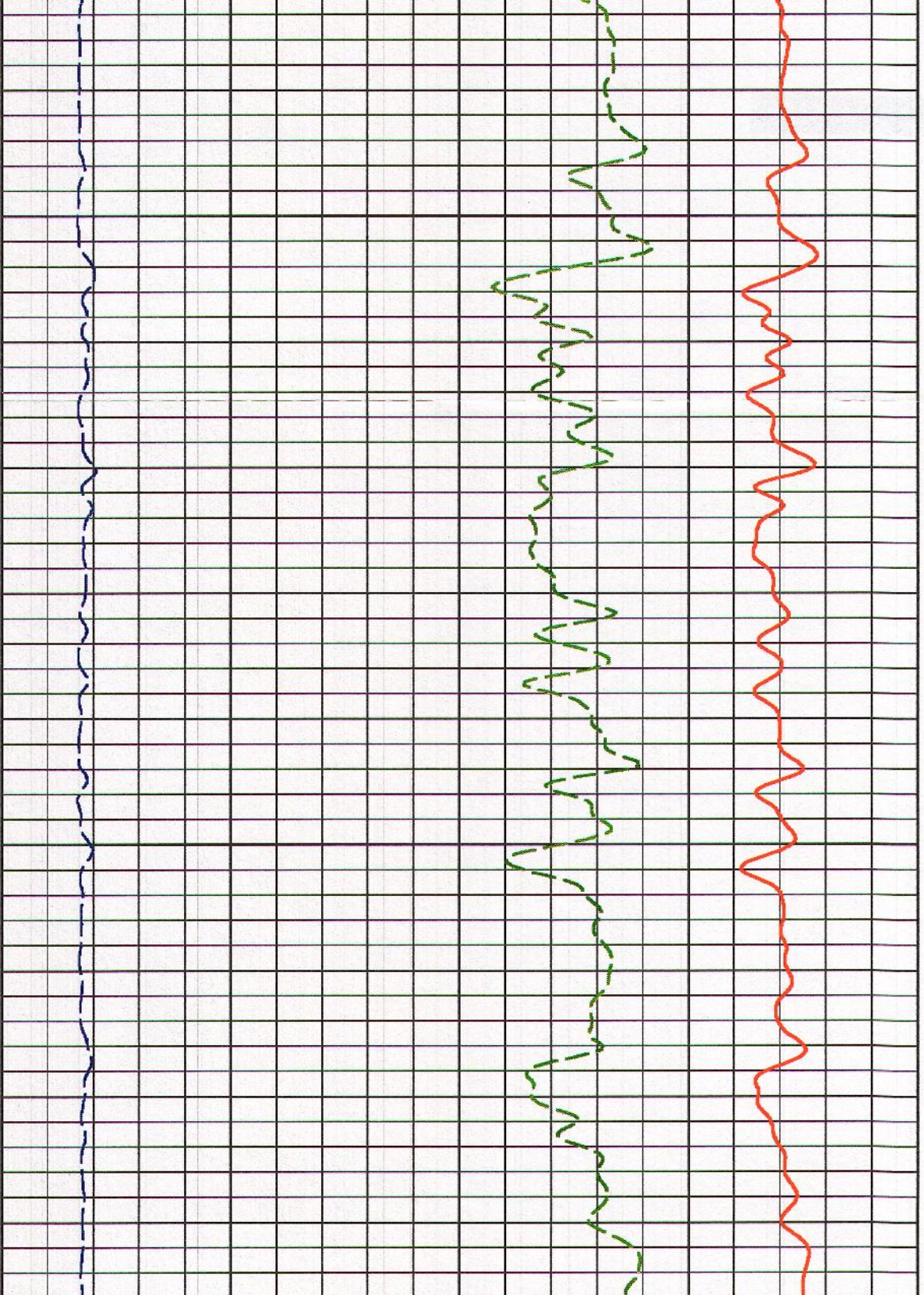


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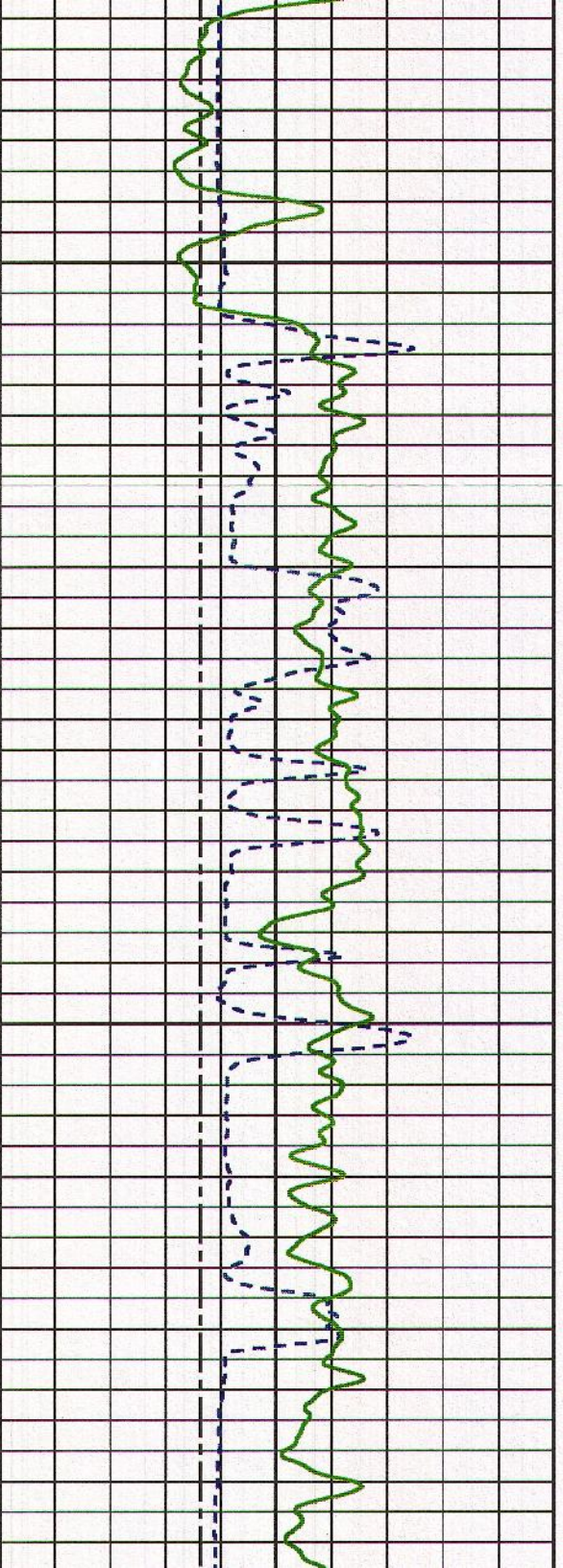




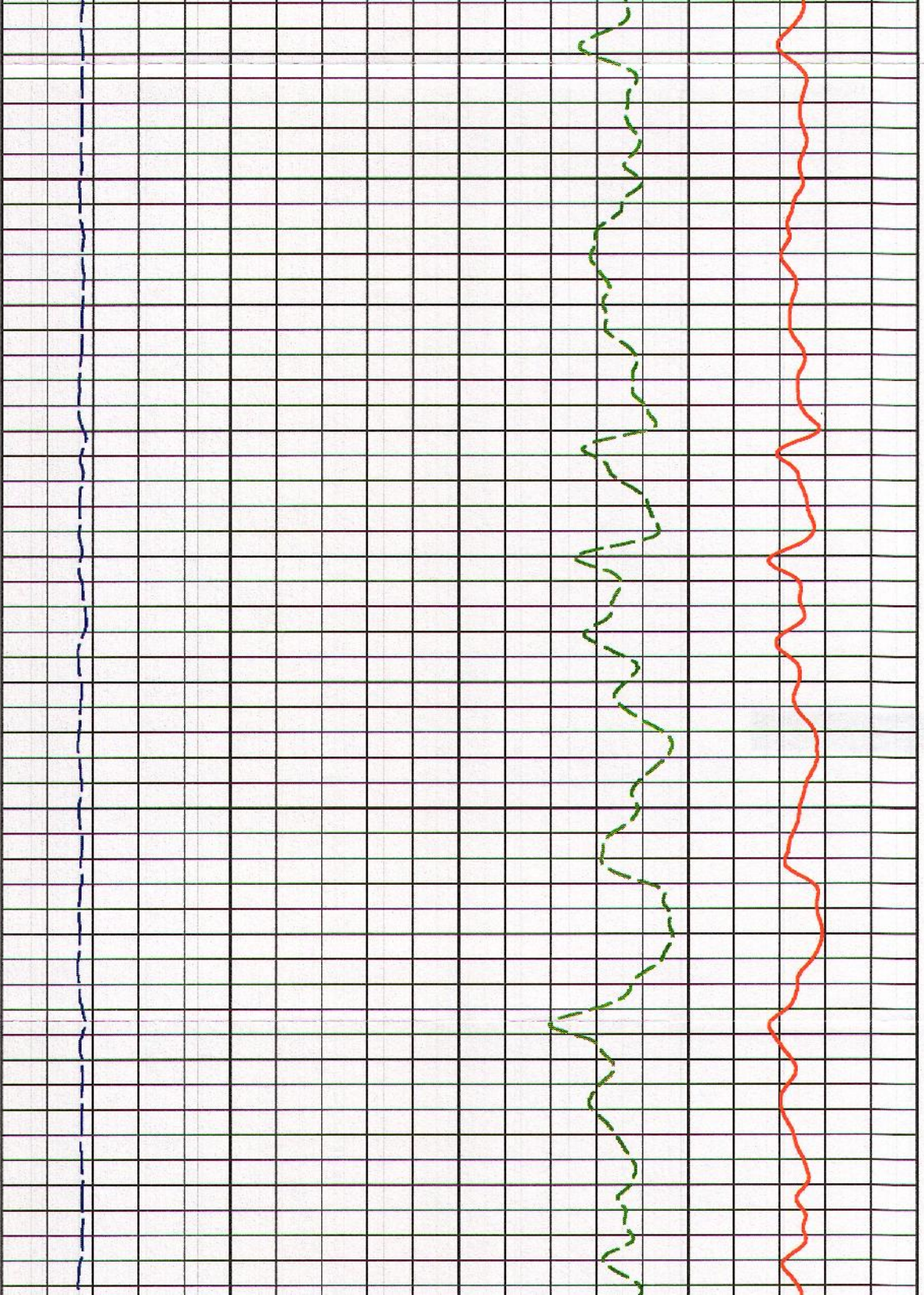


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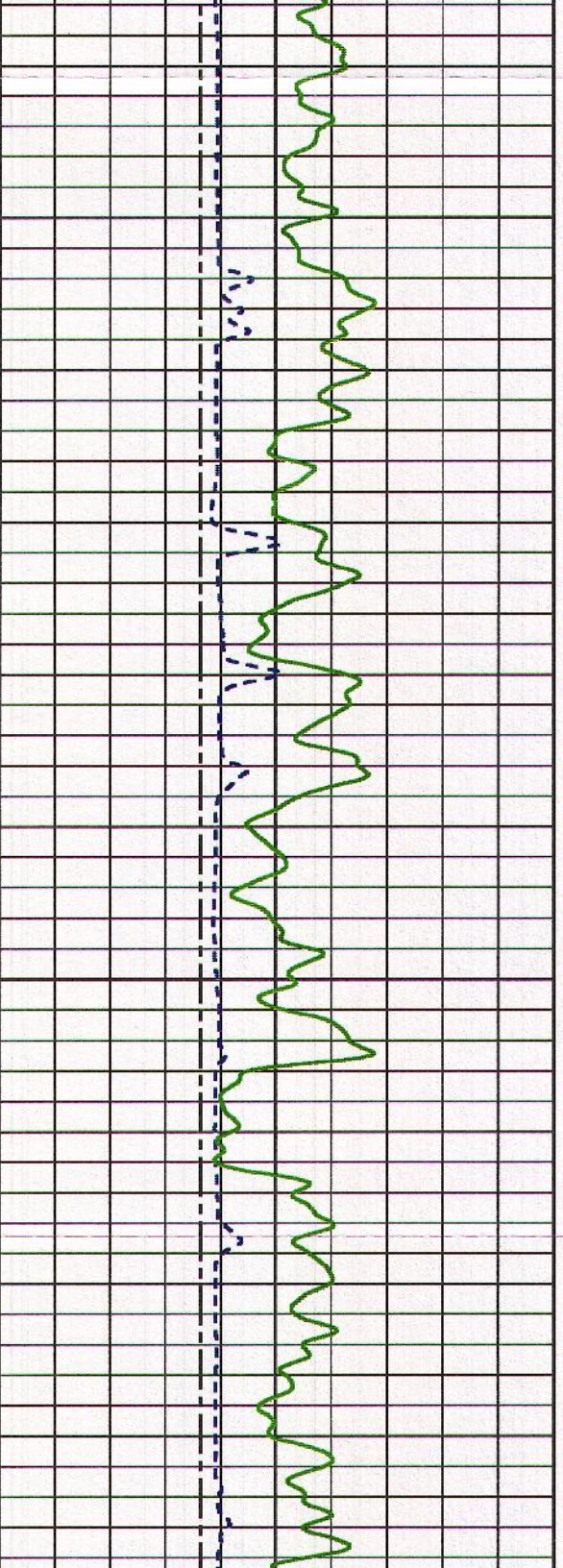




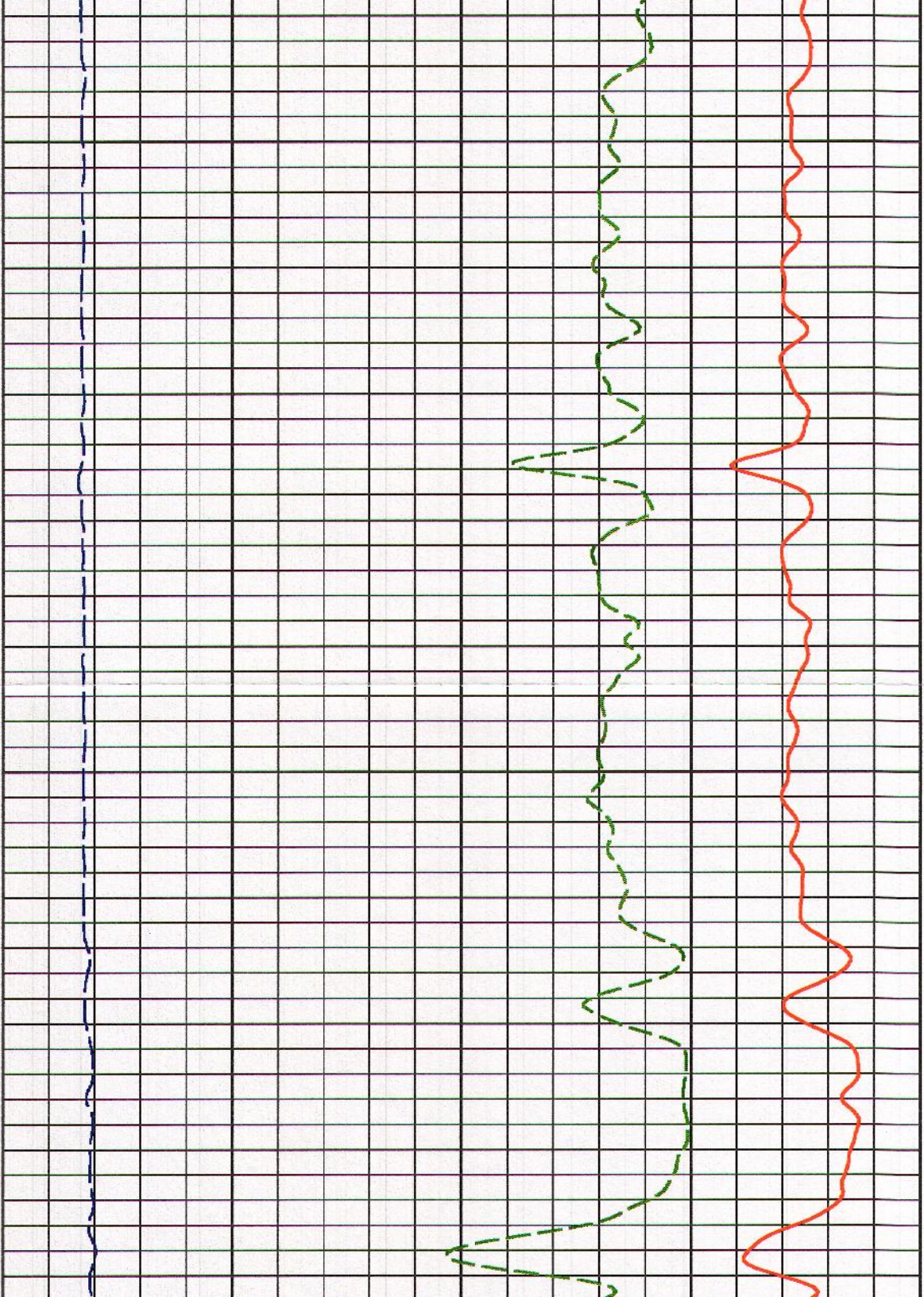


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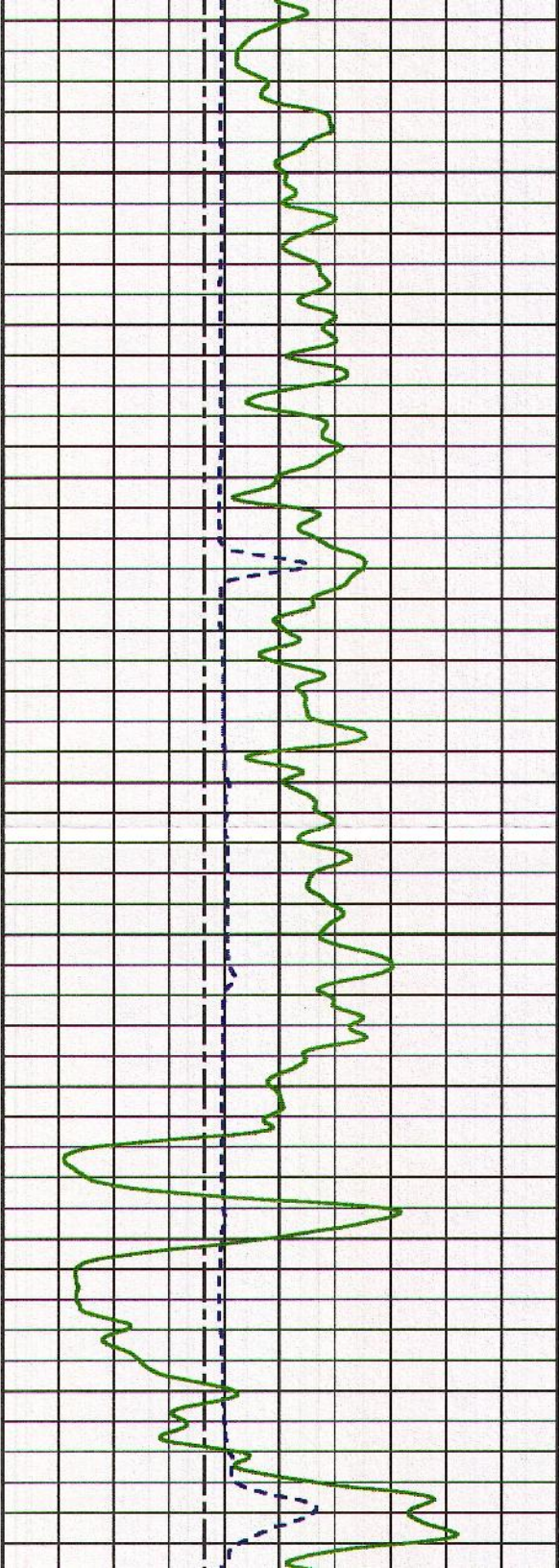




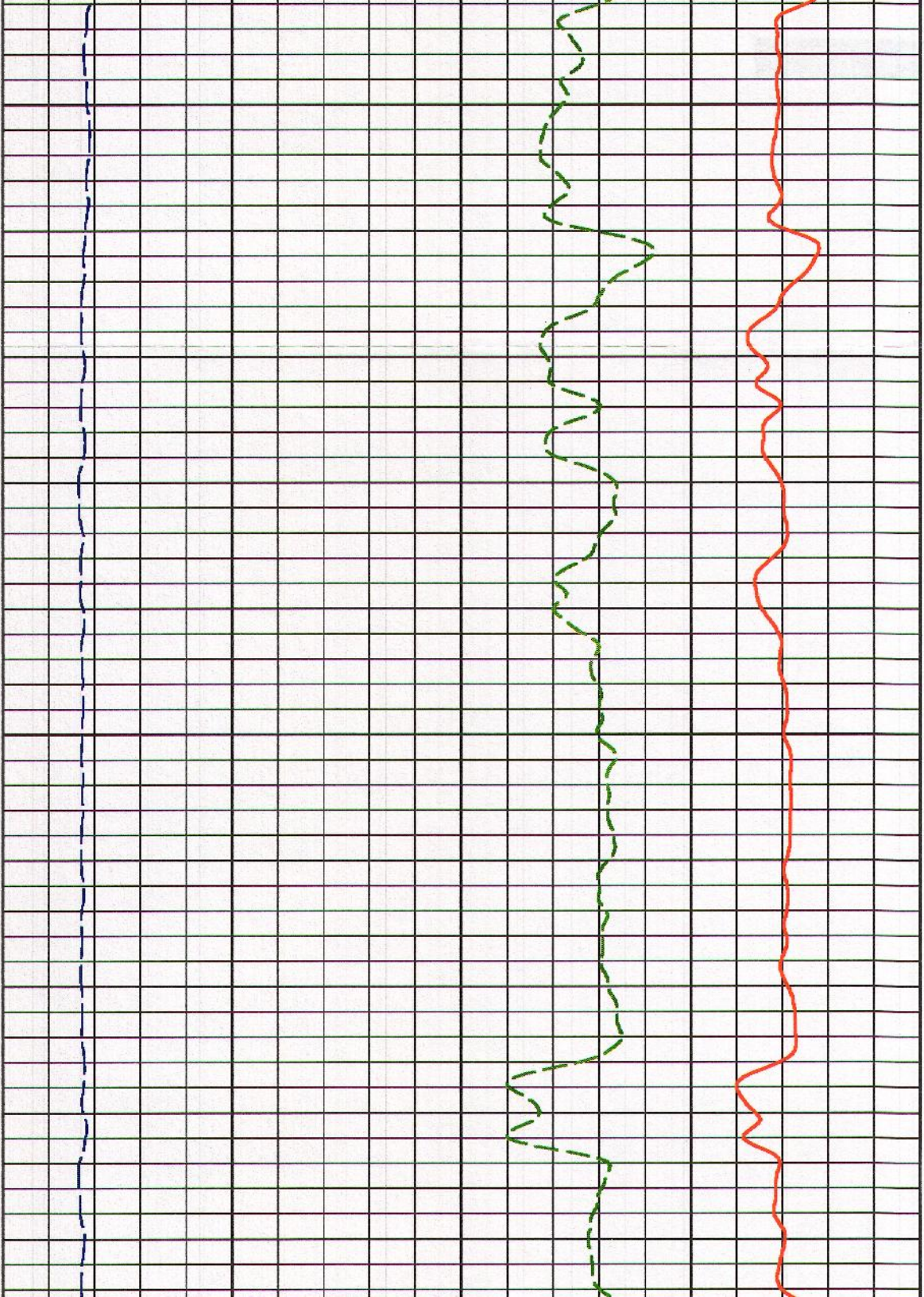


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1525

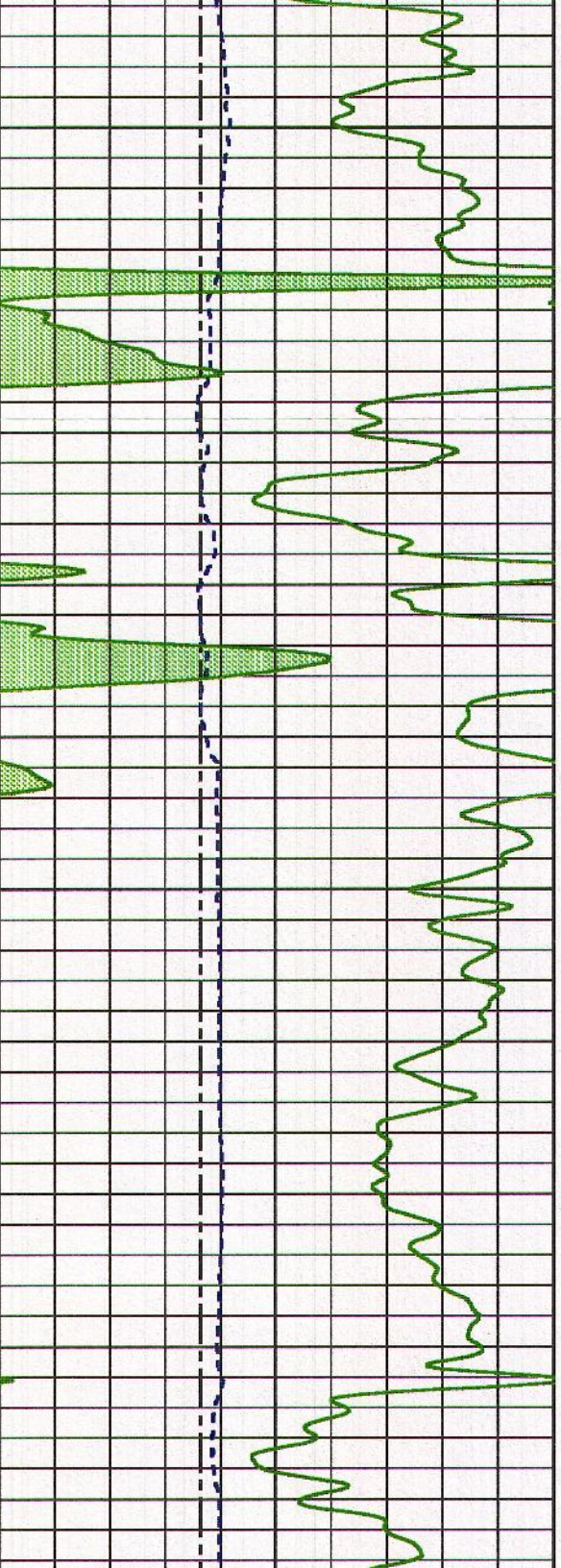




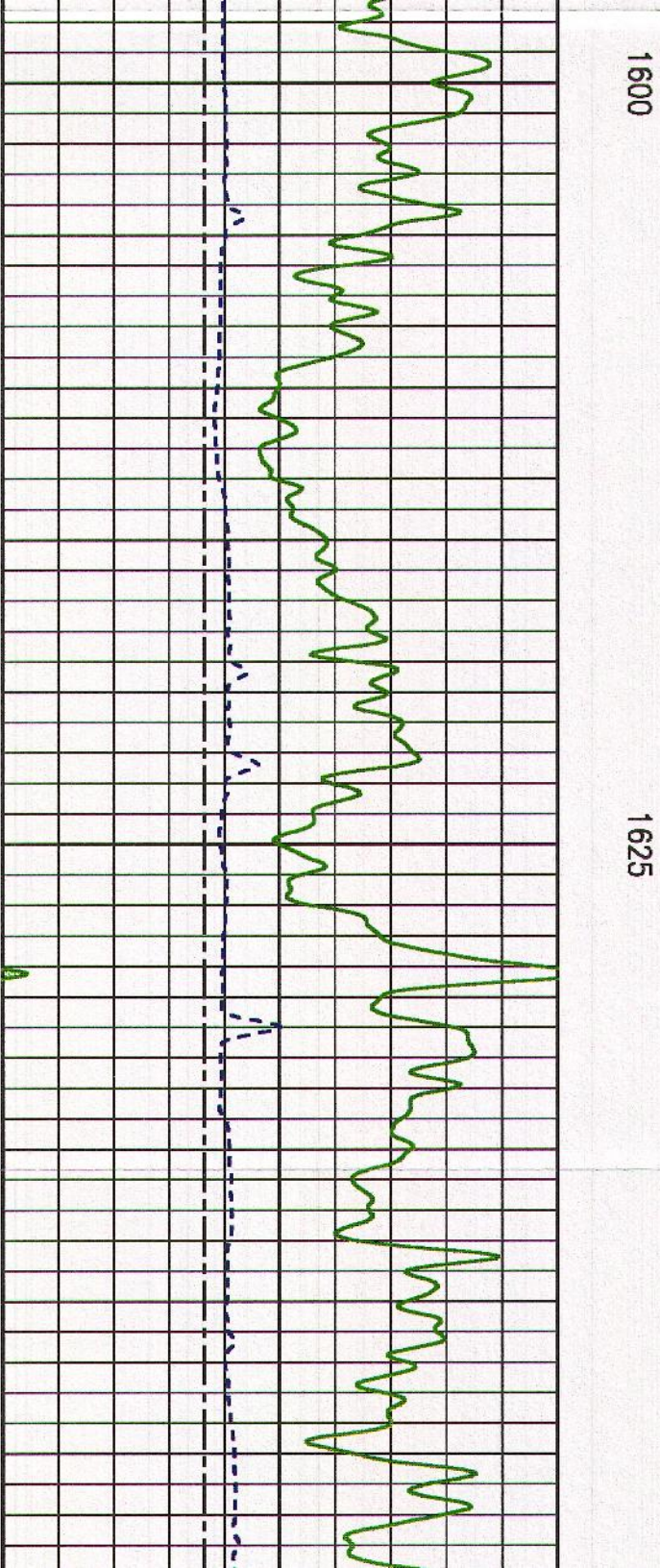
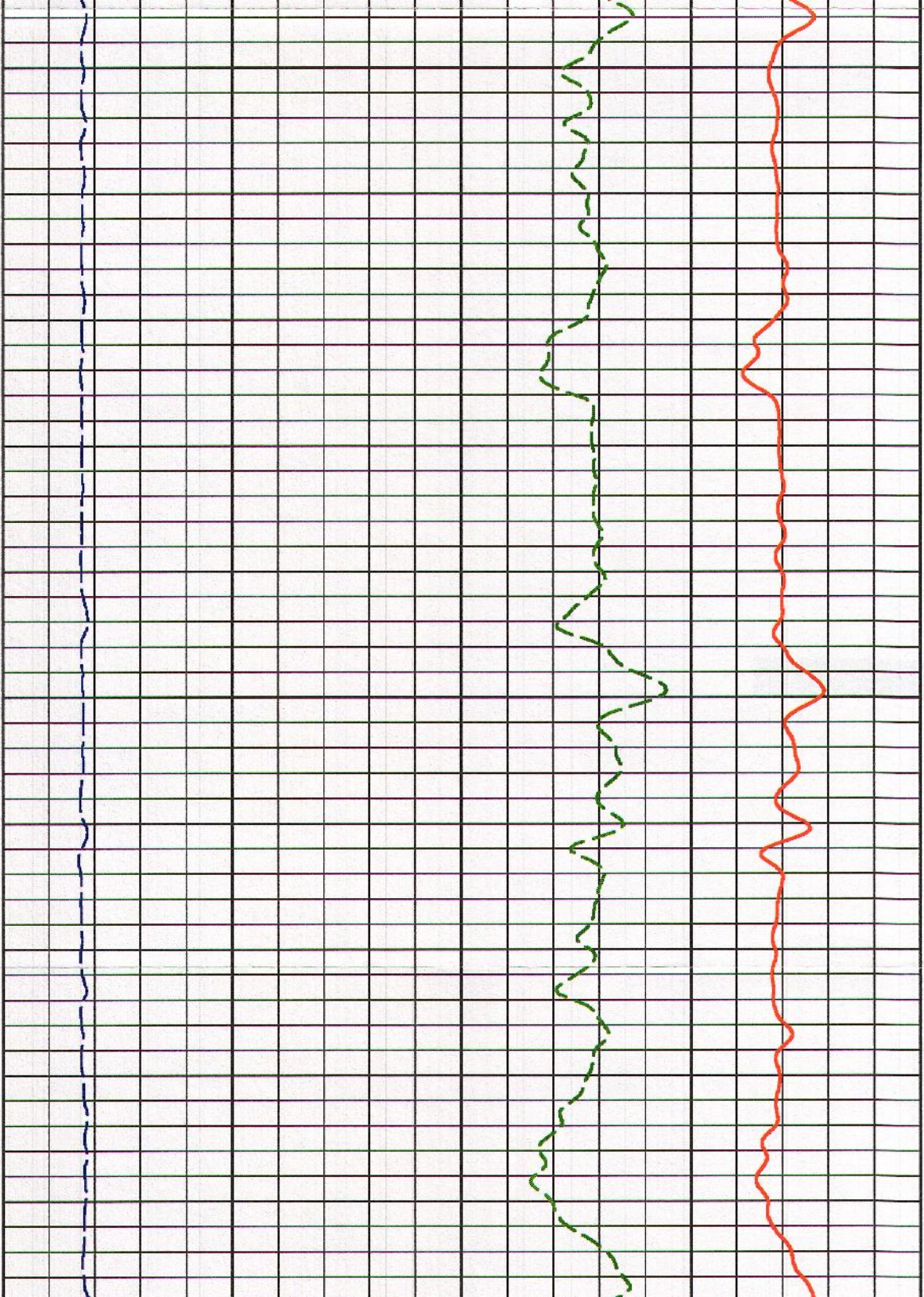


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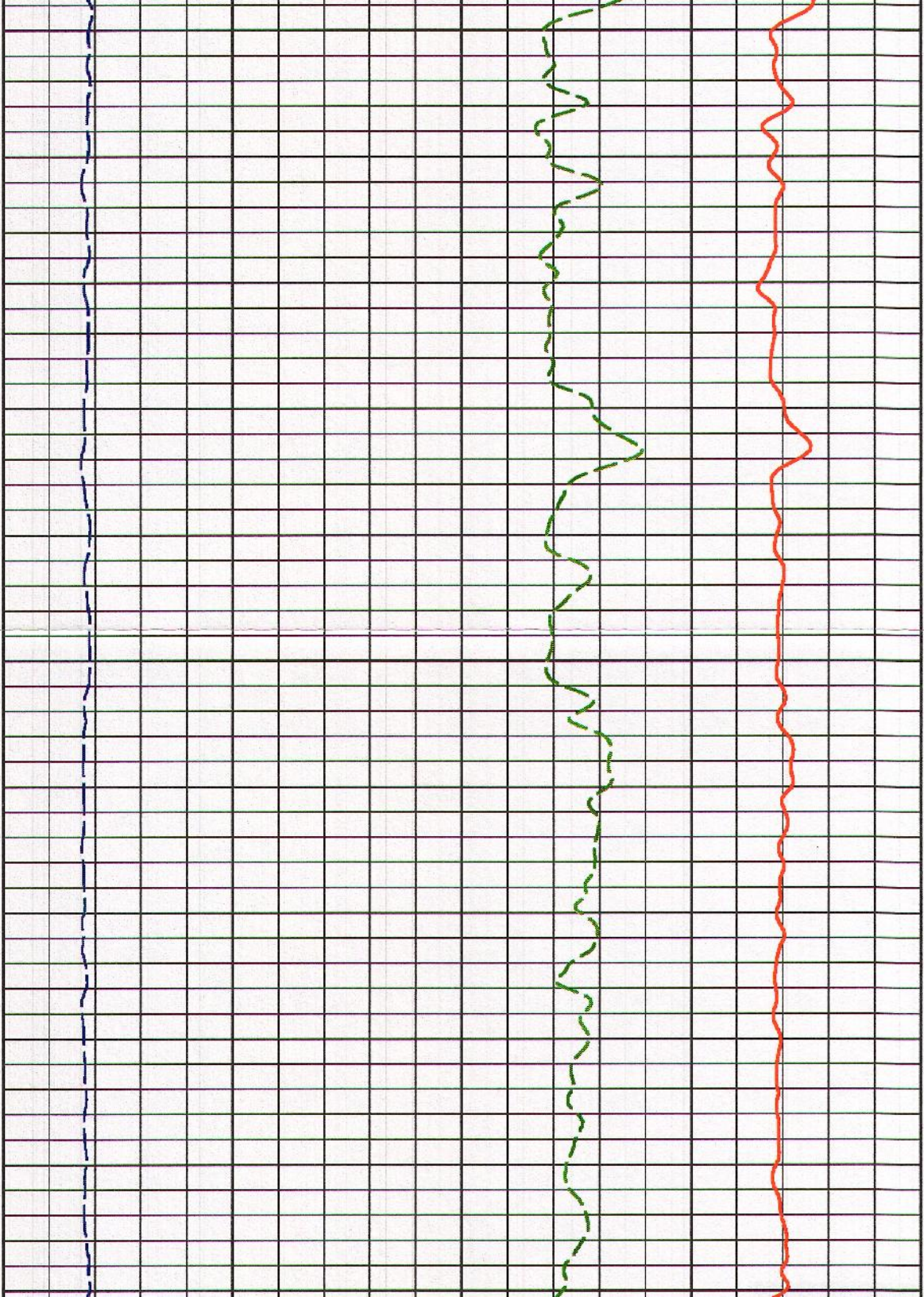
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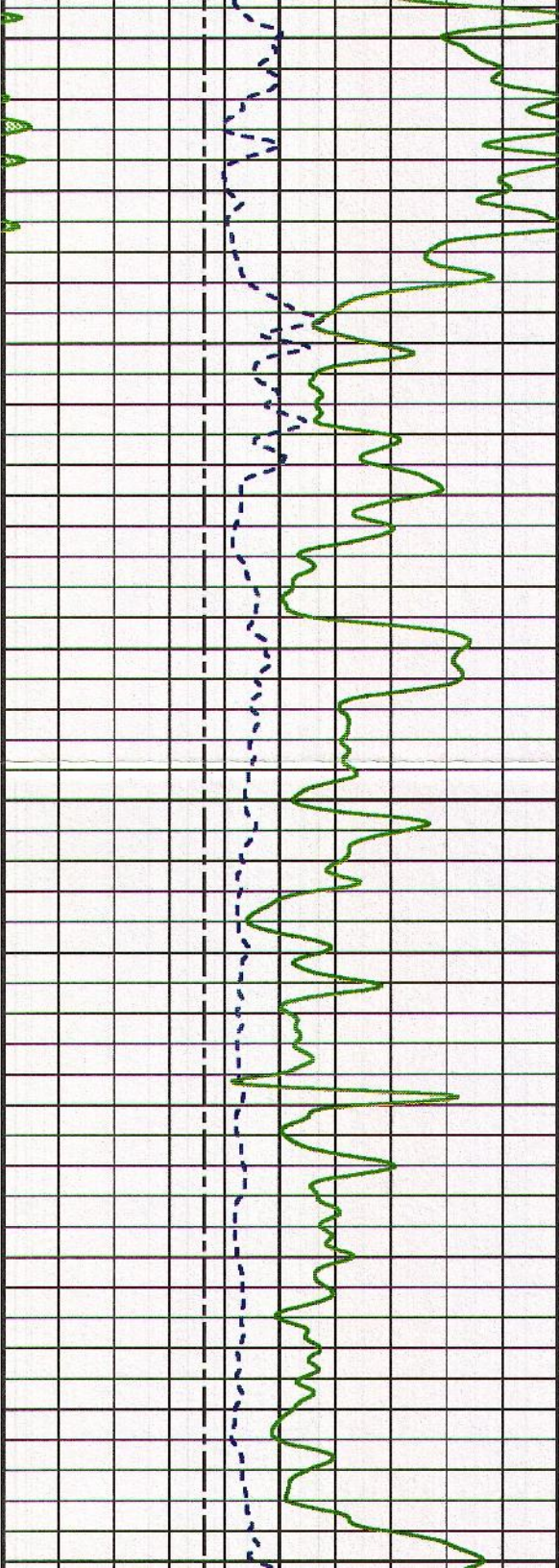




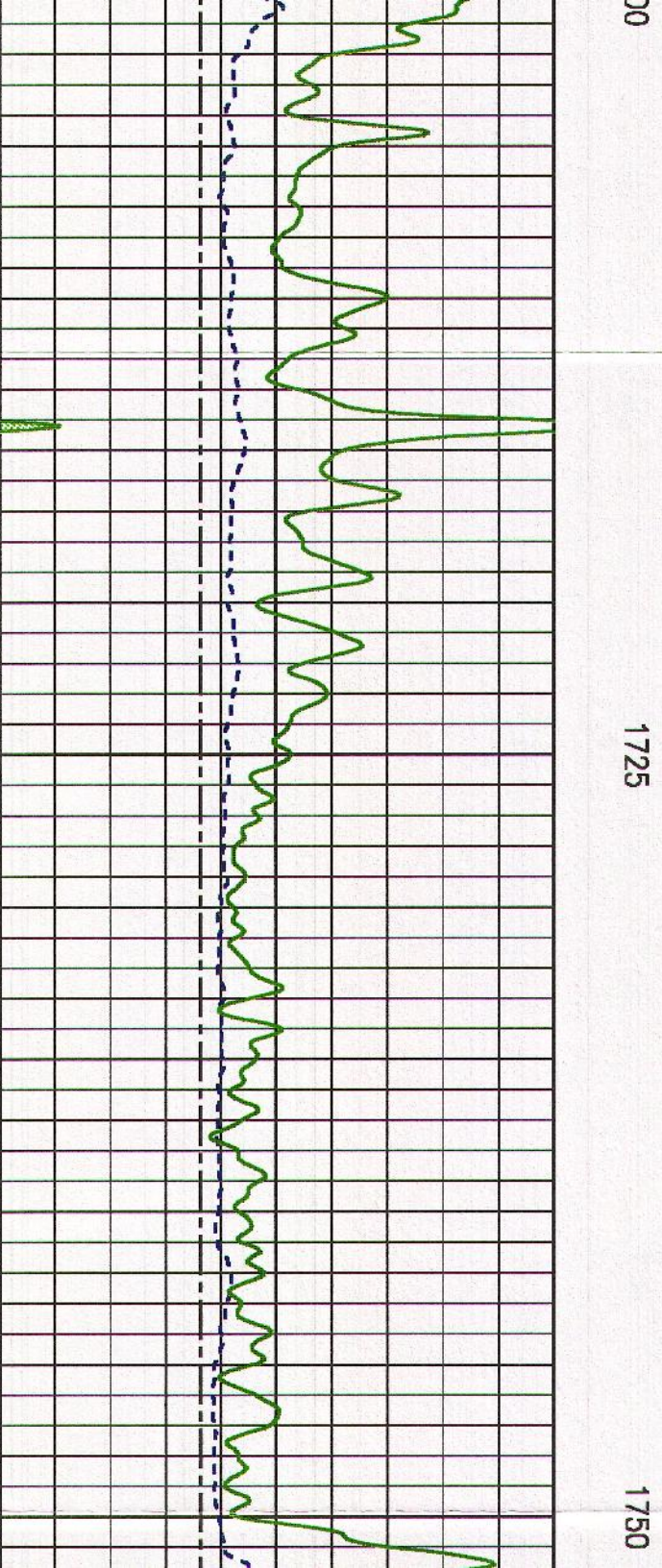
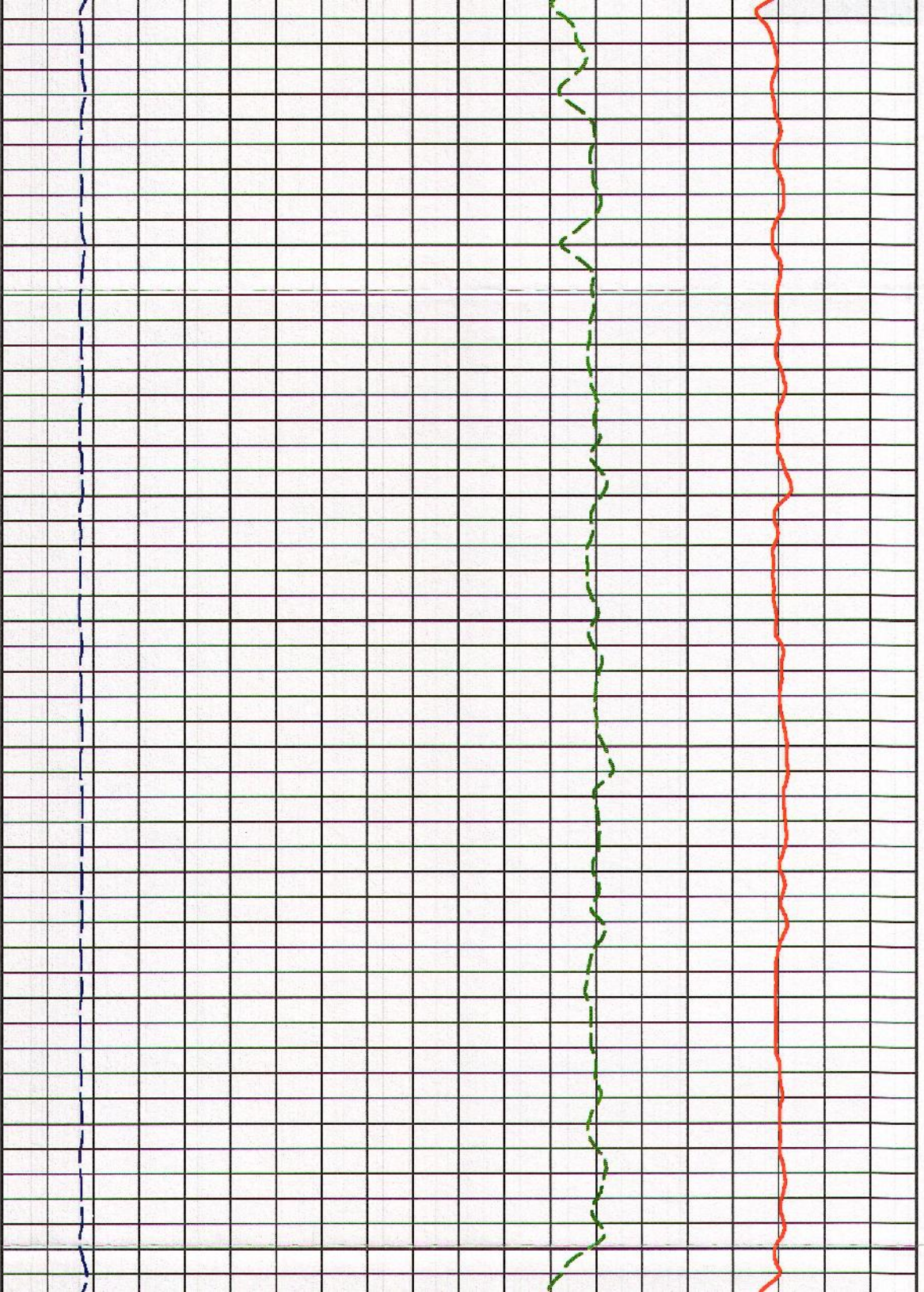
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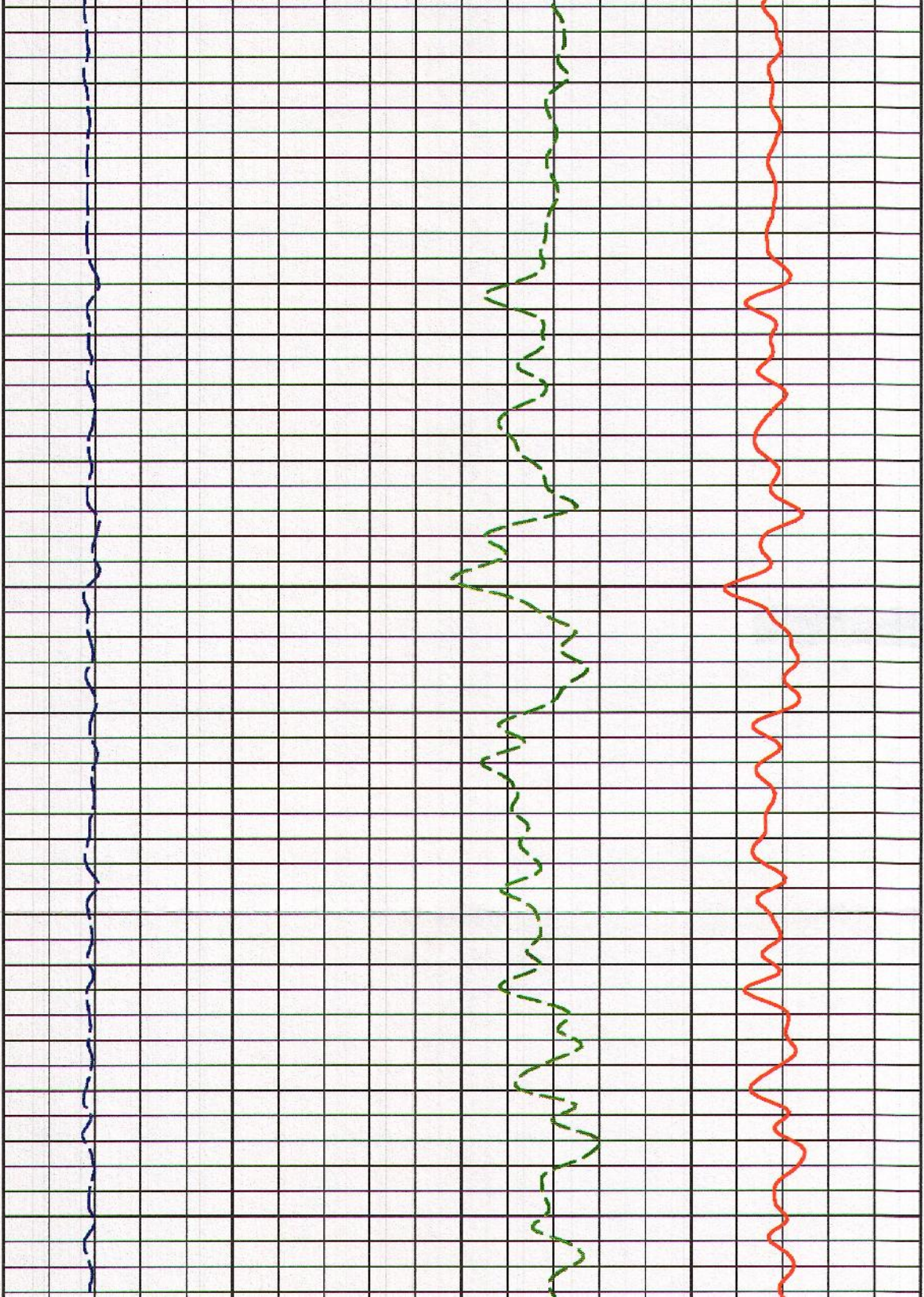
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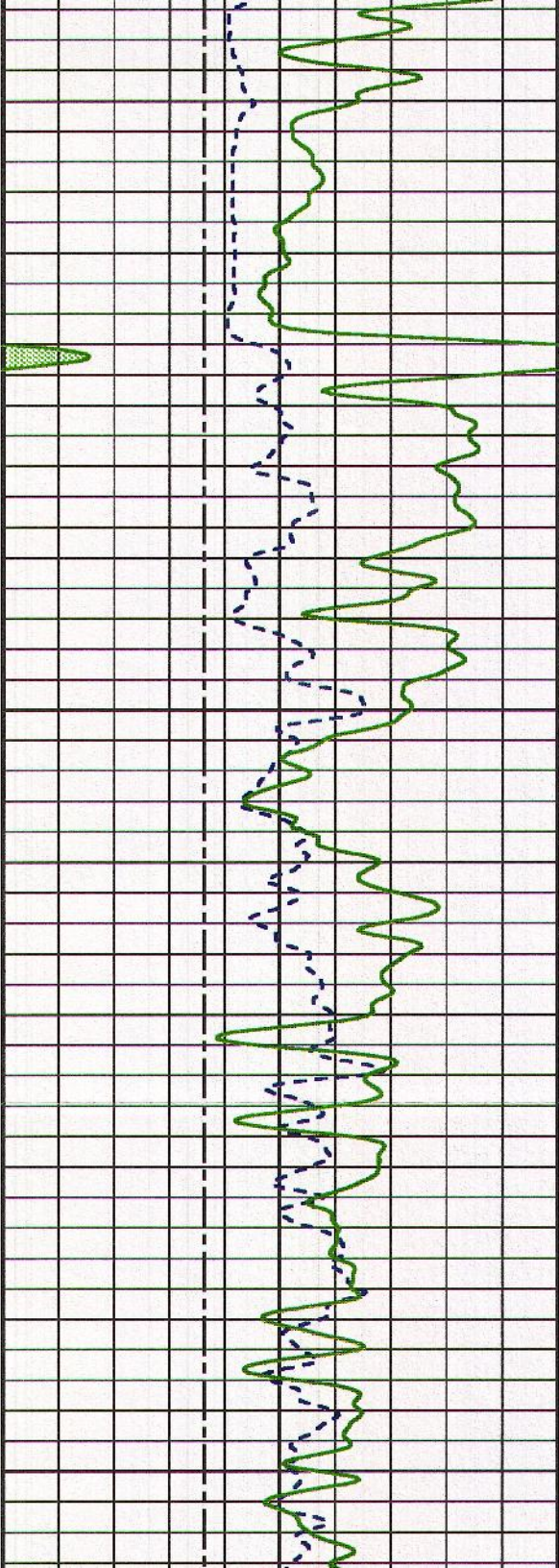




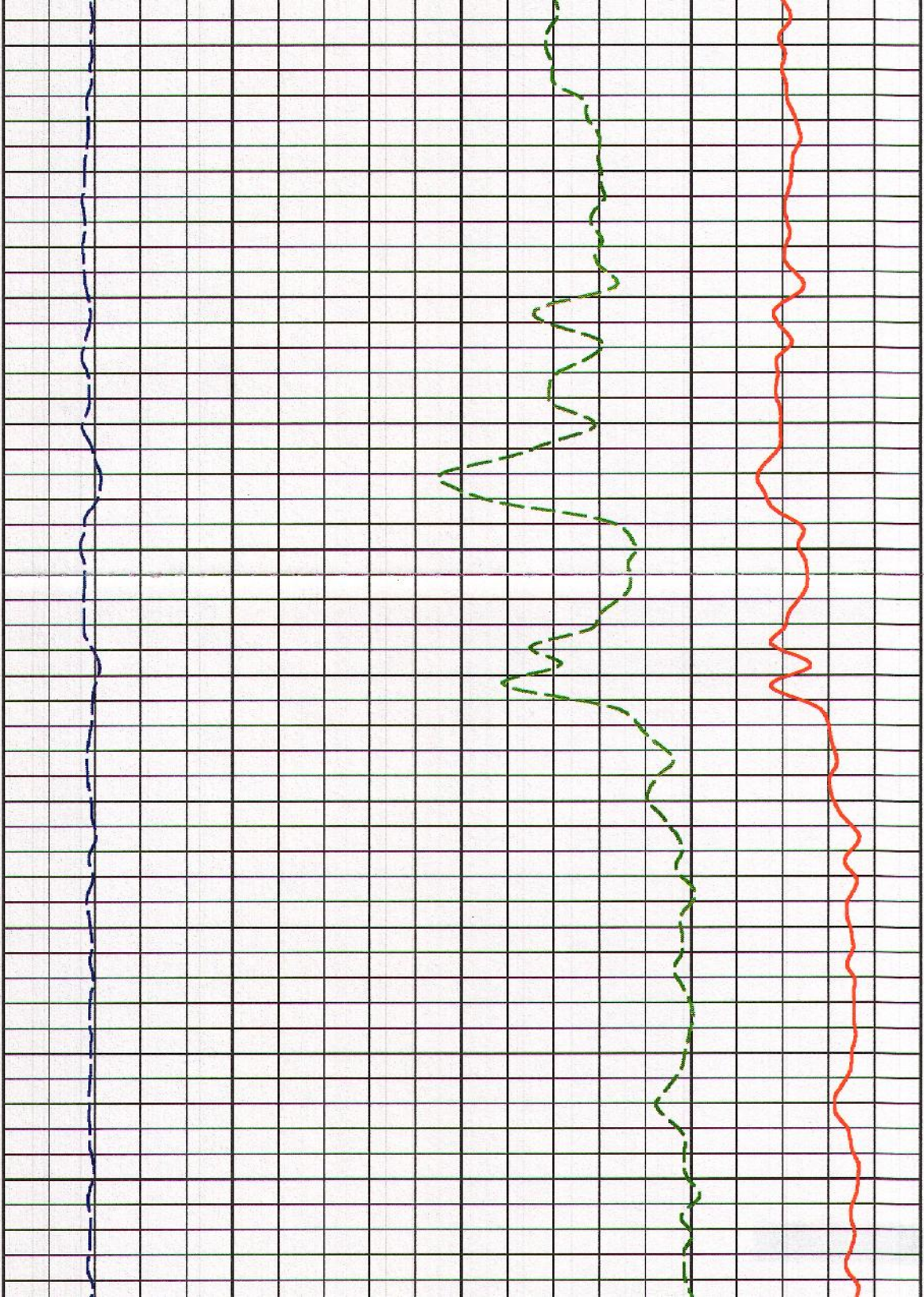


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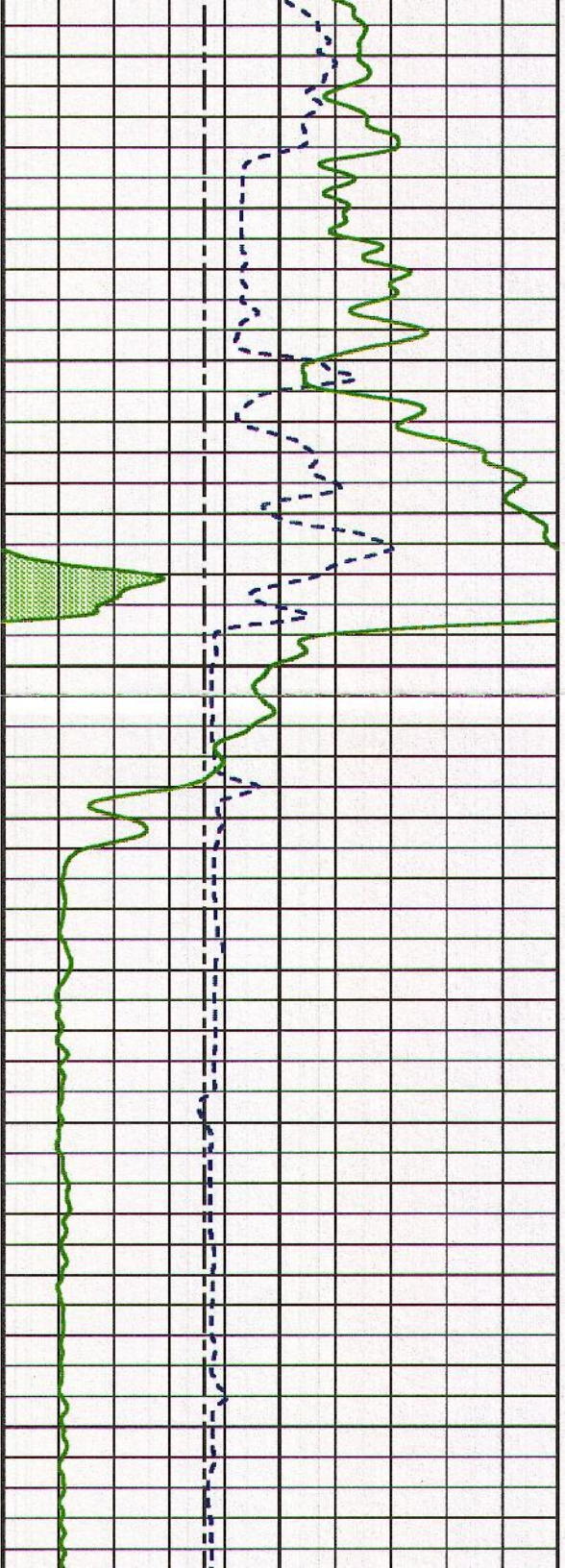




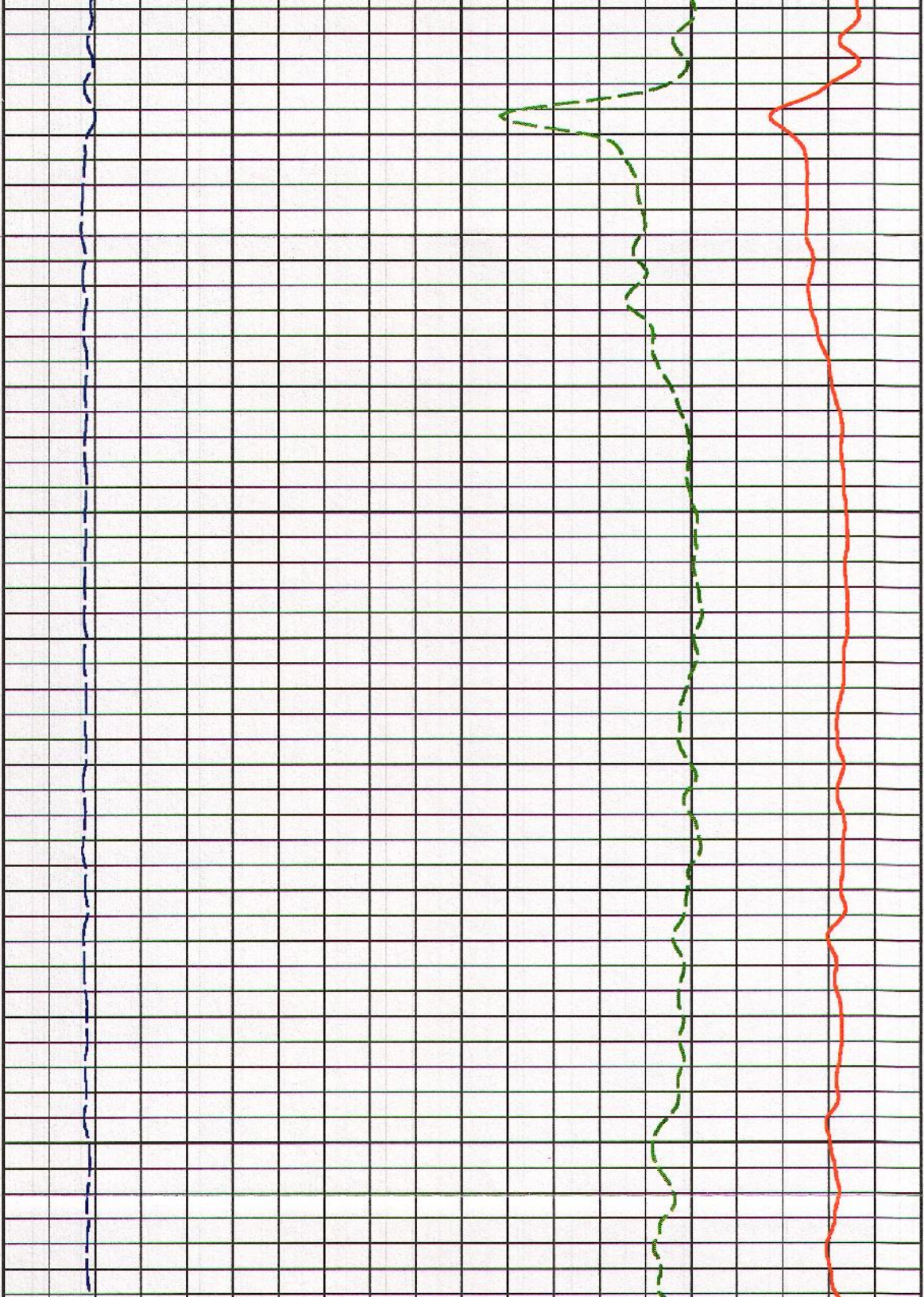


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1850

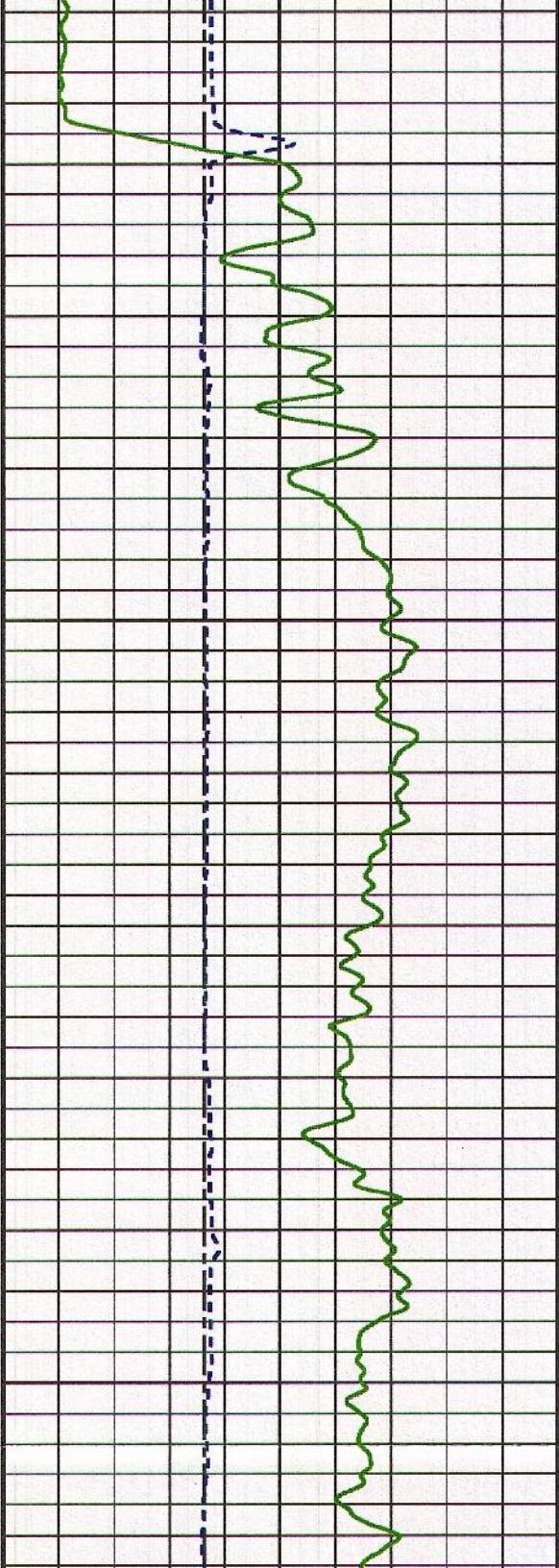




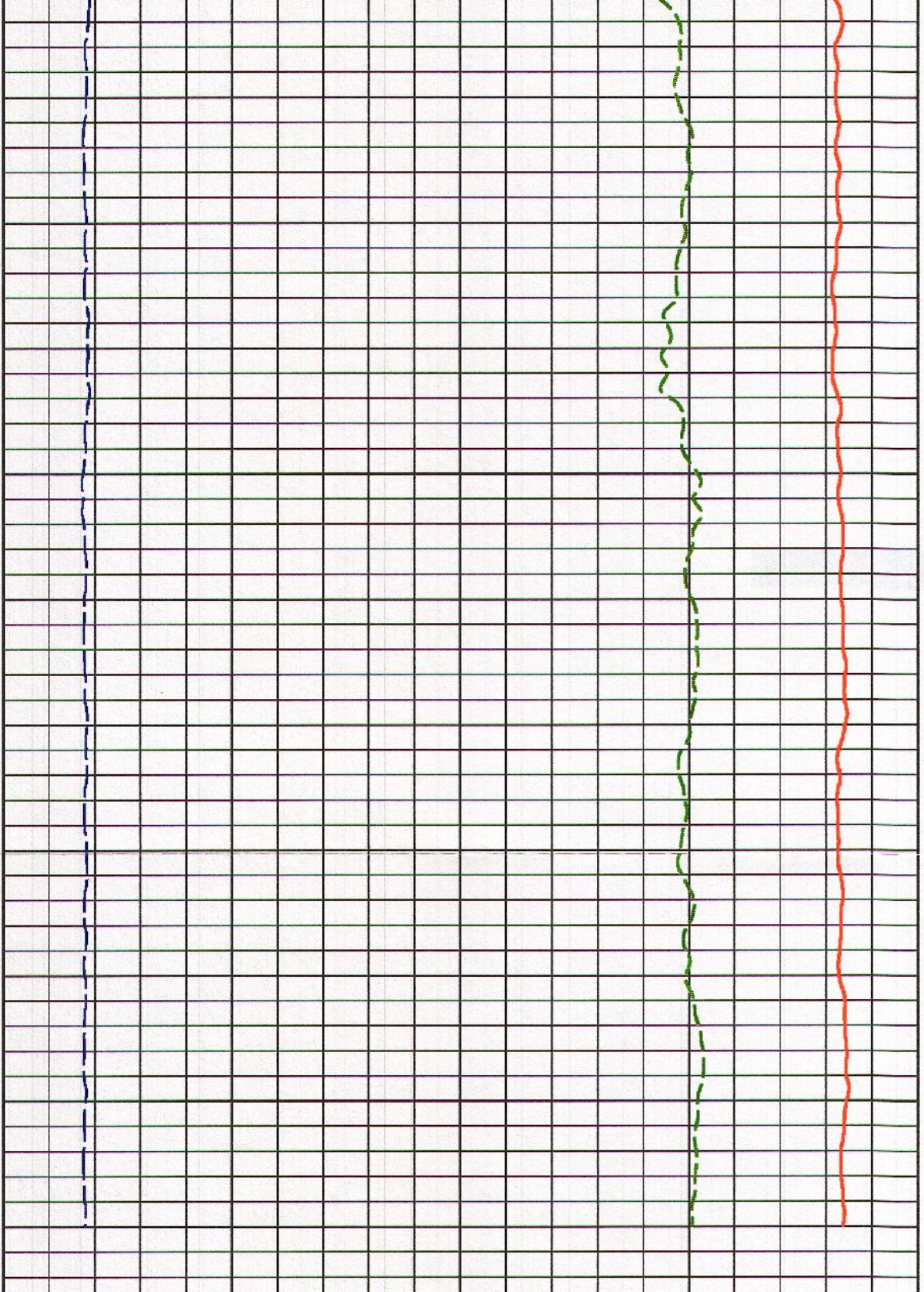


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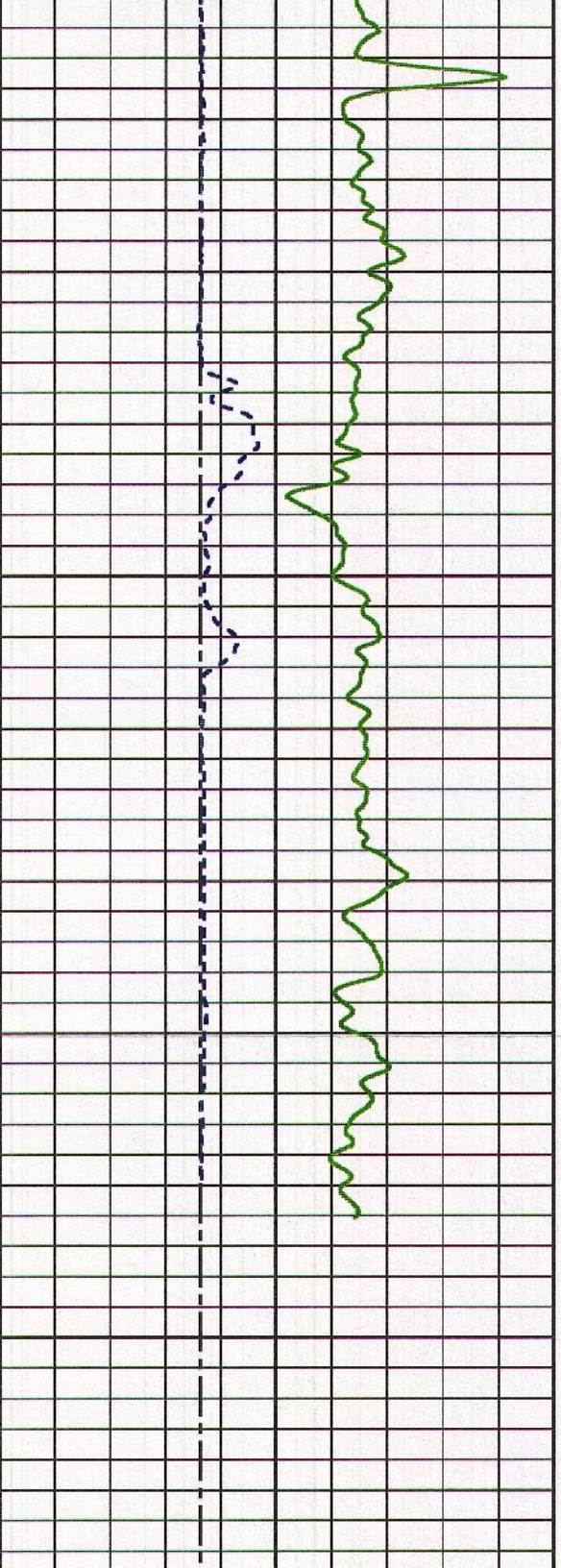




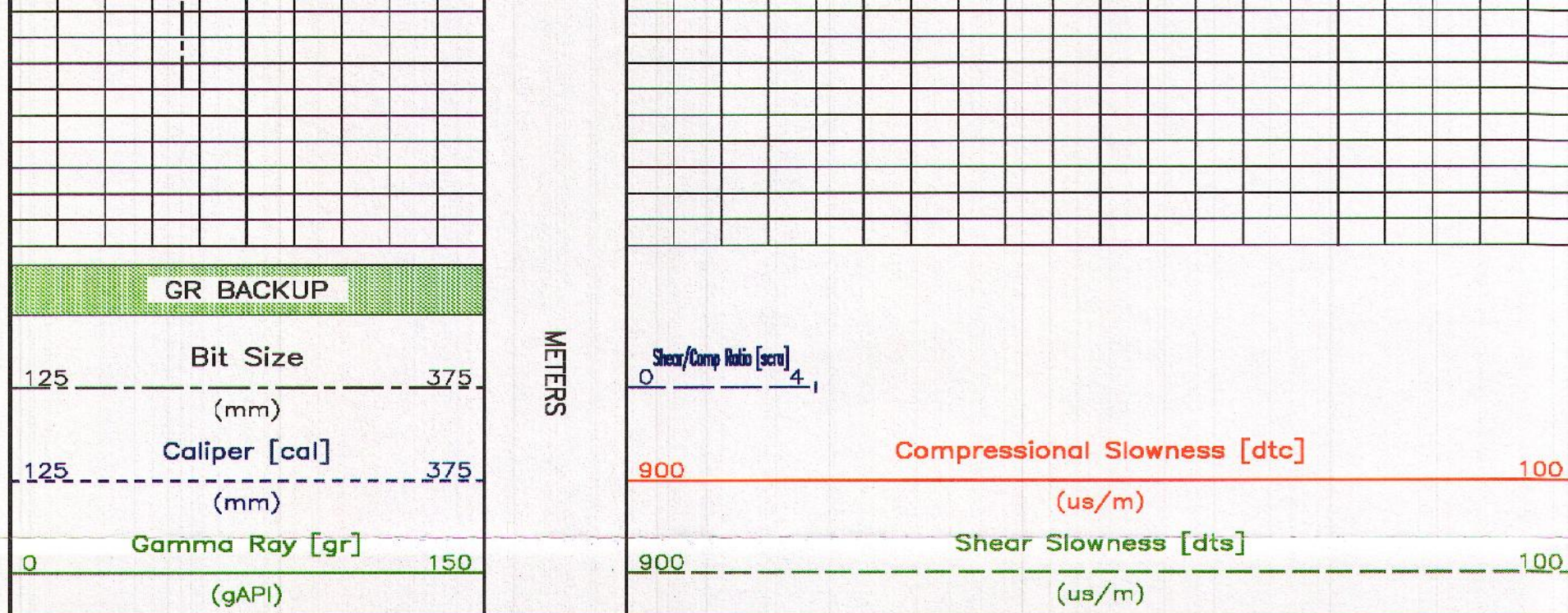


1925

1950







## Monopole Quality Control Plot

### CURVE DESCRIPTION REPORT

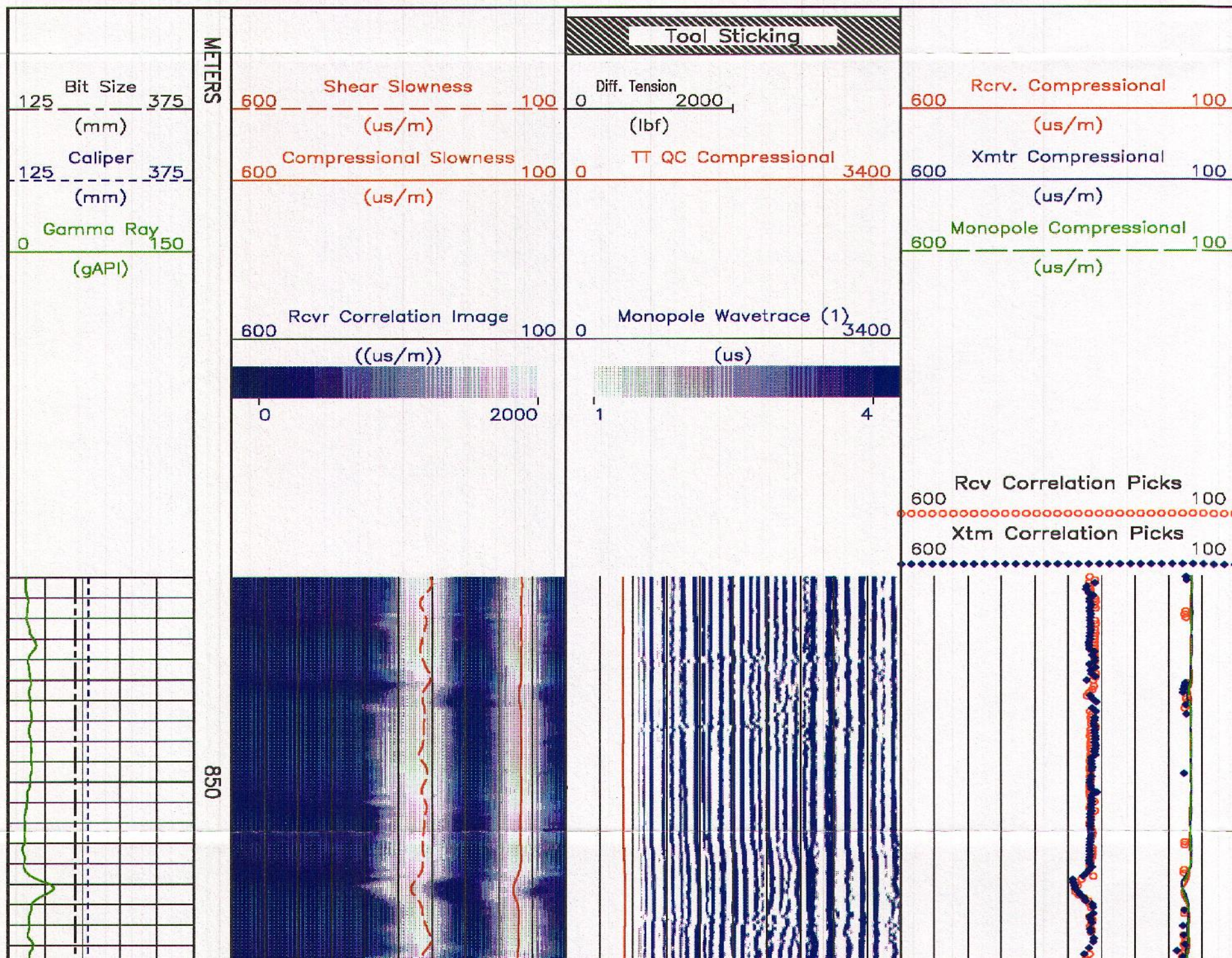
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 18:18:32 2009	BIT SIZE
F1:CALX	CALX	Nov 25 13:16:58 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:DTC	DTCN	Nov 30 10:23:24 2009	COMPRESSIONAL WAVE SLOWNESS
F1:DTS	DTSD	Nov 30 10:23:39 2009	SHEAR WAVE SLOWNESS
F1:GR	GR	Nov 25 18:18:32 2009	GAMMA RAY
F1:TEN	TEN	Nov 25 18:18:32 2009	DIFFERENTIAL TENSION

Project : /data/jianwei/210569\_vulcan\_xmac  
 User : jianwei  
 Presentation : calsunsv3:/data/jianwei/210569\_vulcan\_xmac/xmac.monopole.pdf [1:240 Scale]  
 Plot Interval : 840 - 1966.72 Meters

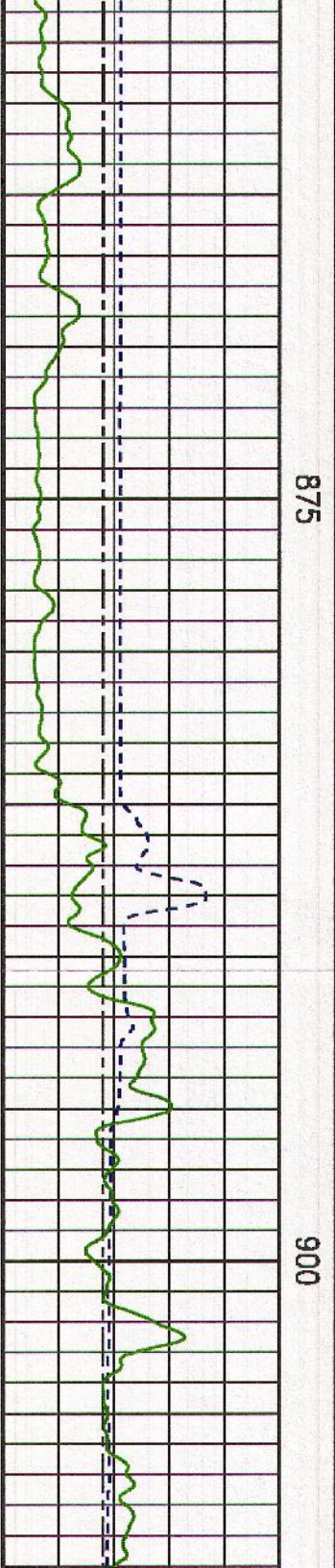
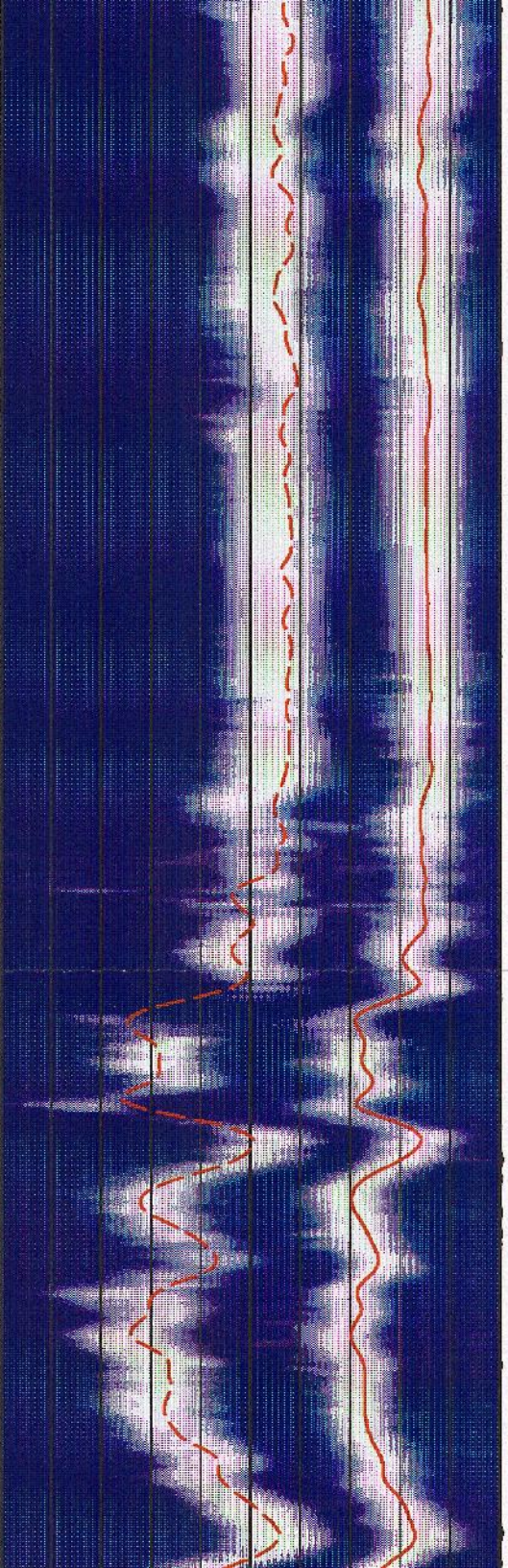
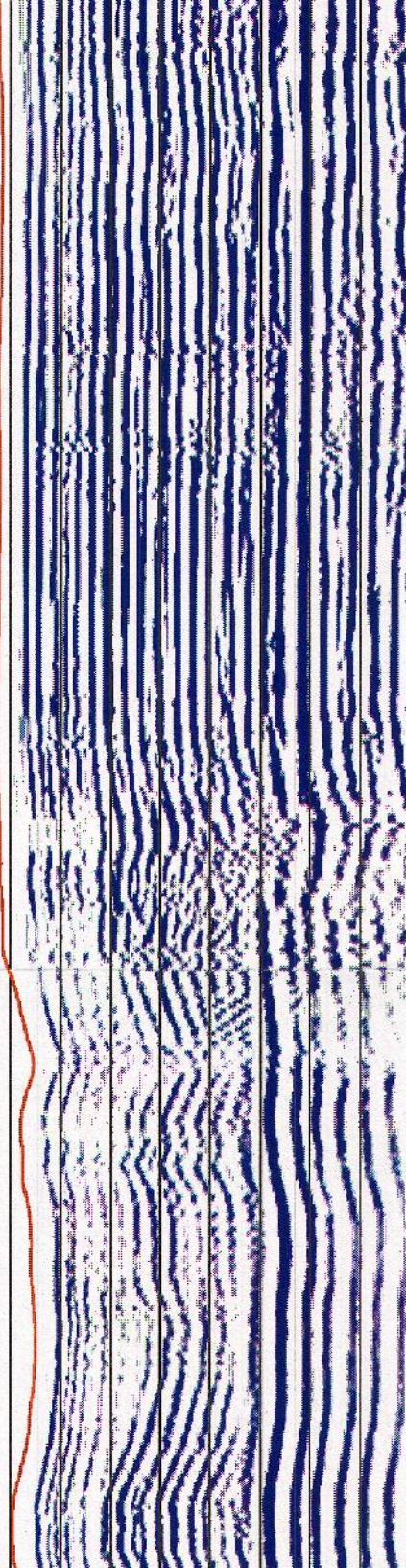
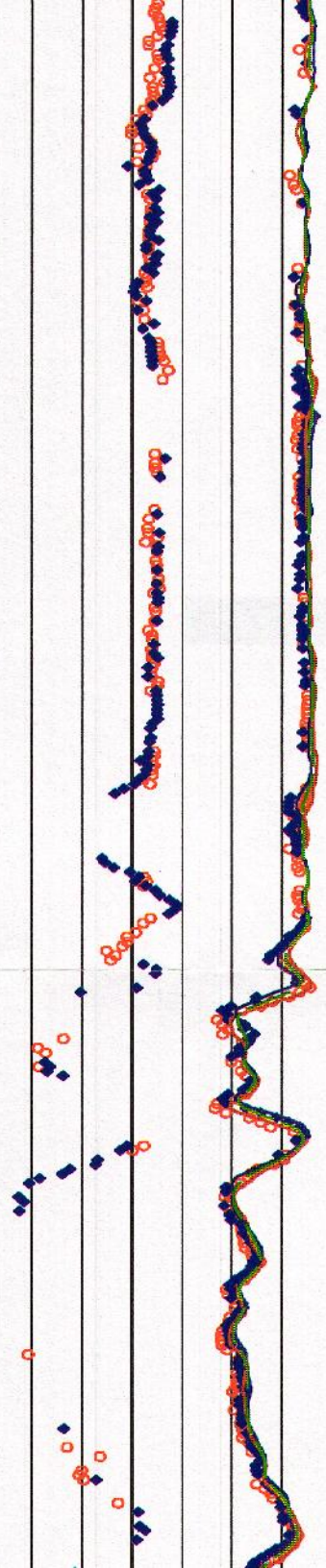
Data File 1 : F1 : calsunsv3:/data/jianwei/210569\_vulcan\_xmac/slowness.xtf  
 Created On : Nov 25 13:16:58 2009  
 Copyright : VULCAN MINERALS INC



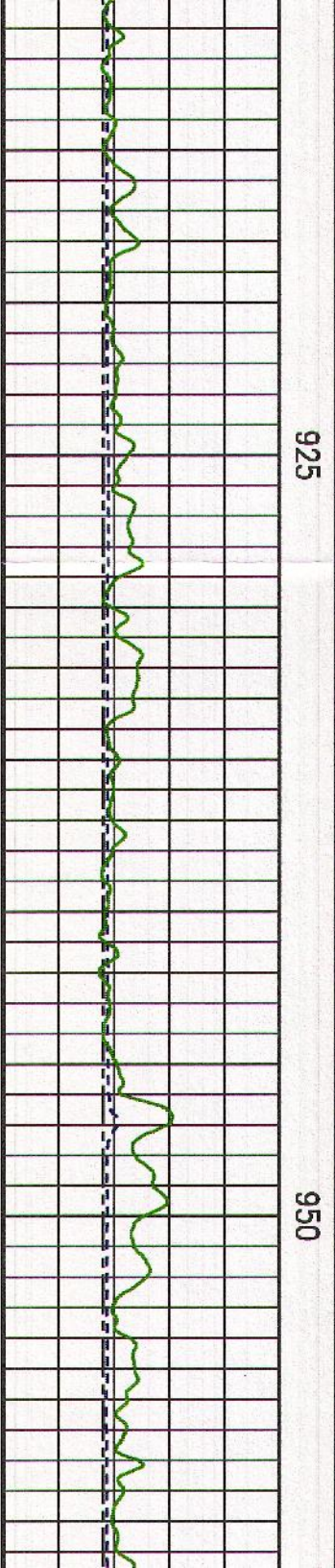
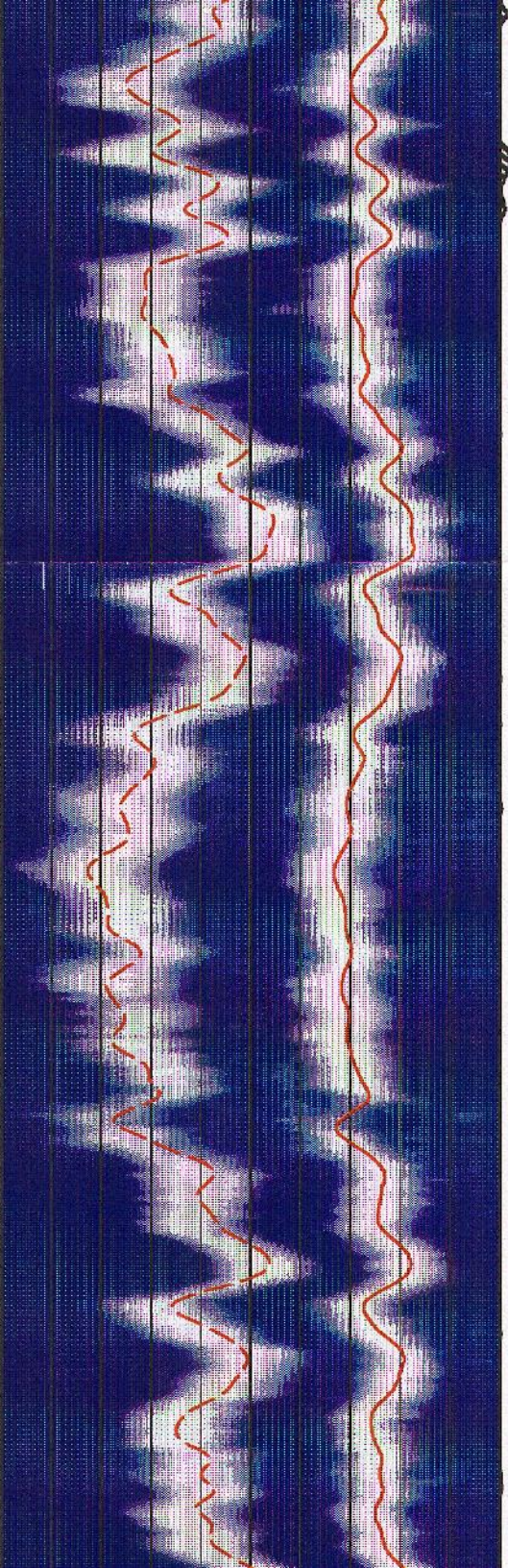
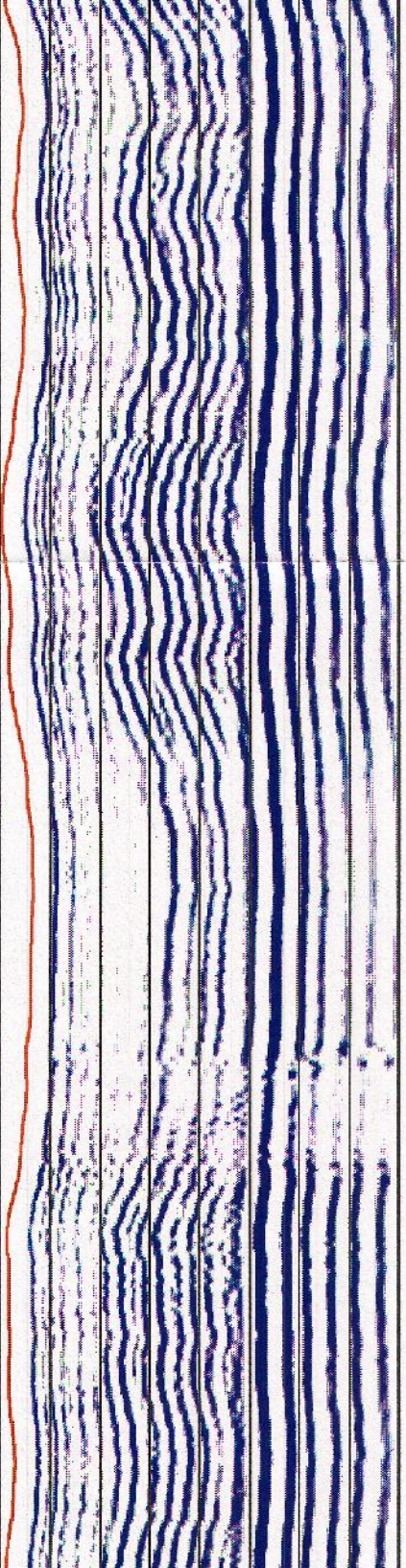
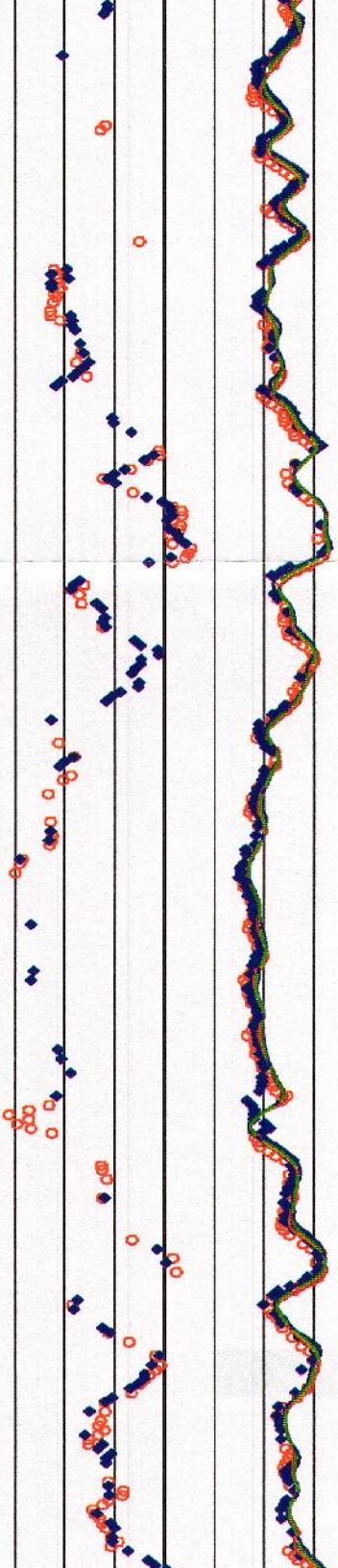
Company : VULCAN MINERALS INC.  
 Well : VULCAN INVESTCAN RED BROOK #2  
 Field : RED BROOK  
 File Interval : 774.878 - 1966.72 Meters  
 Oct : ku833k



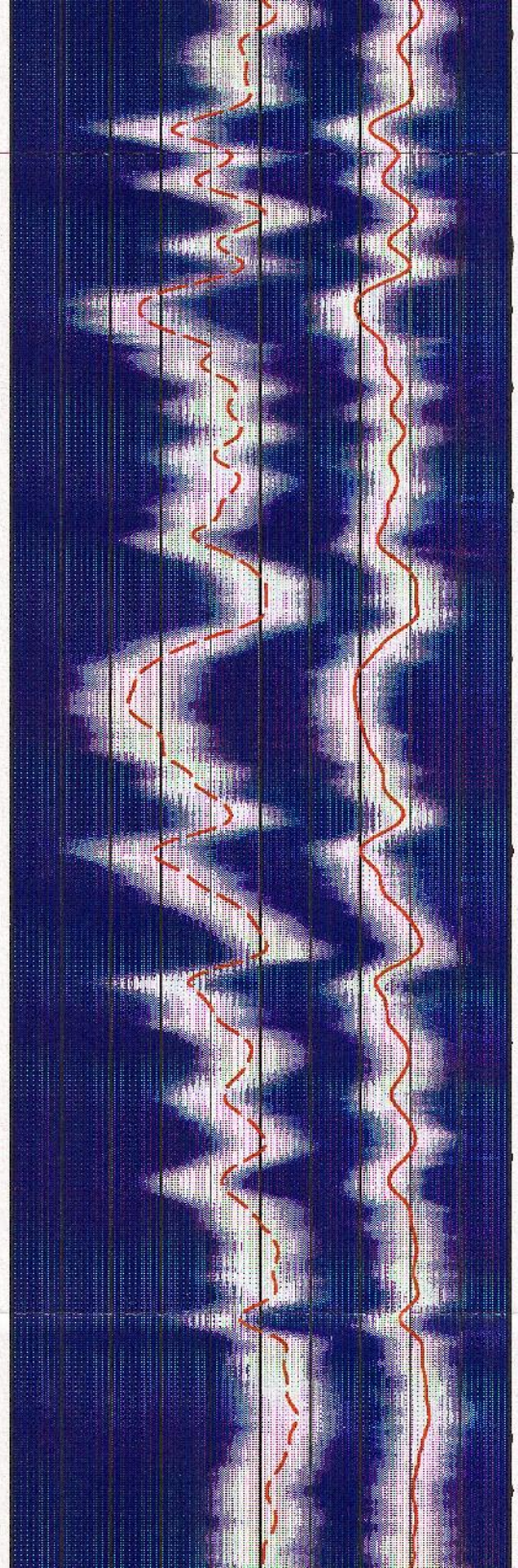
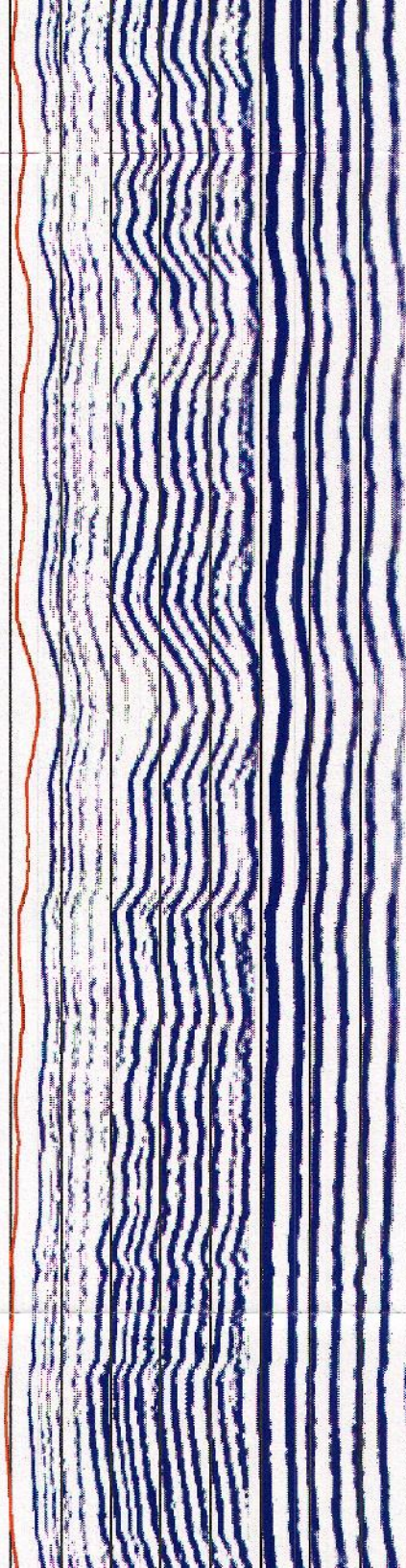
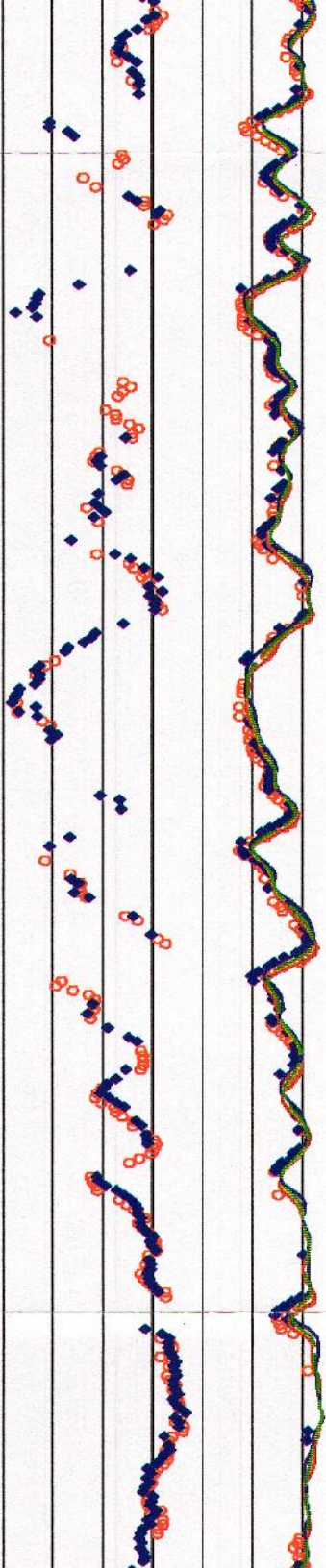






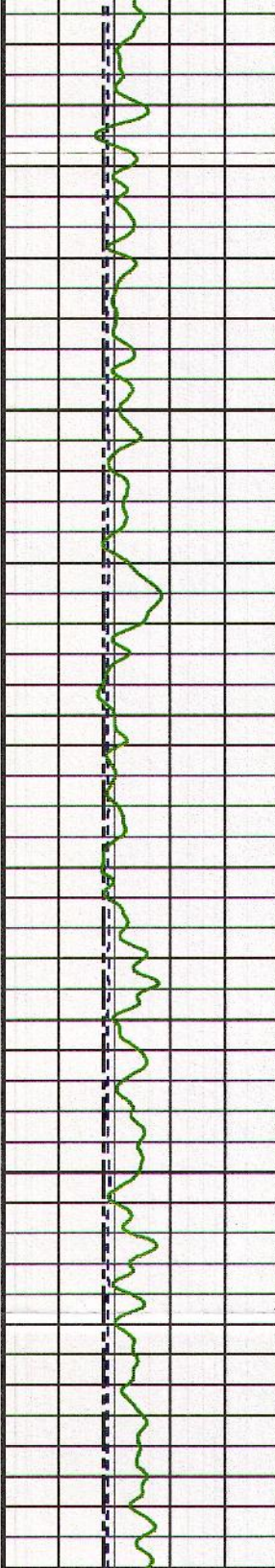




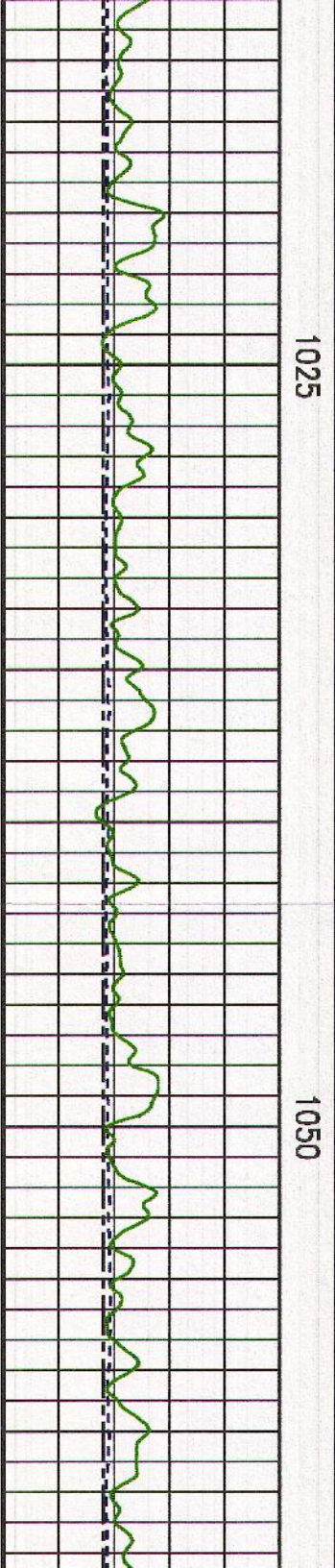
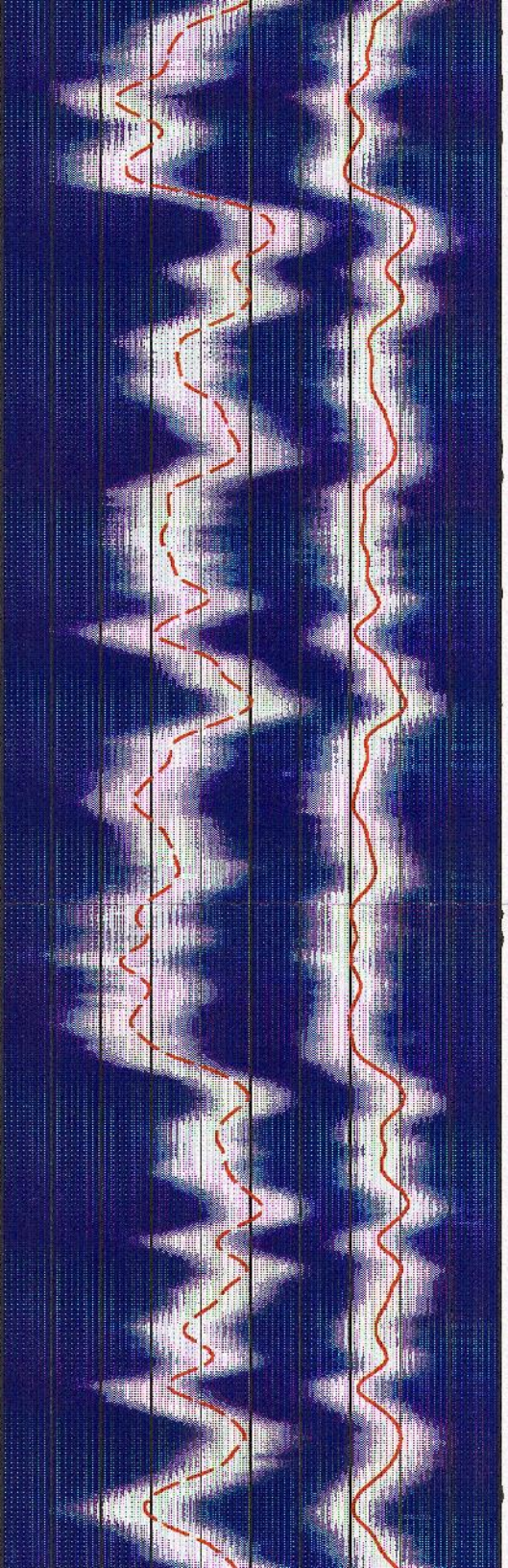
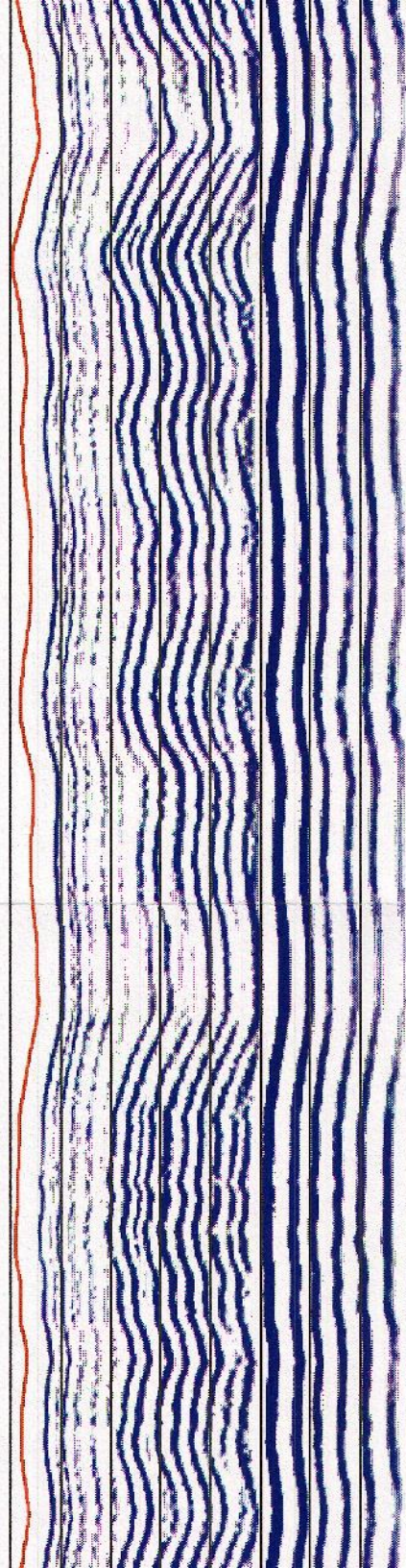
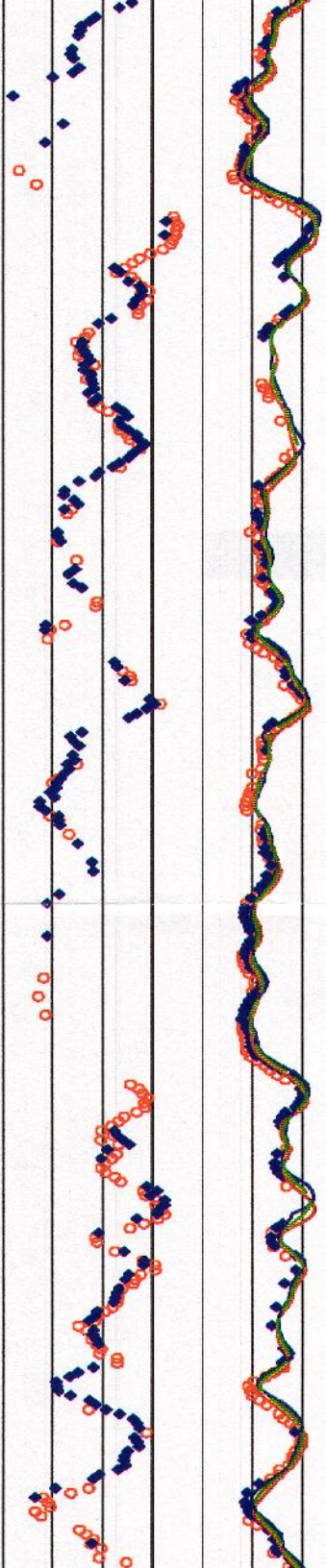


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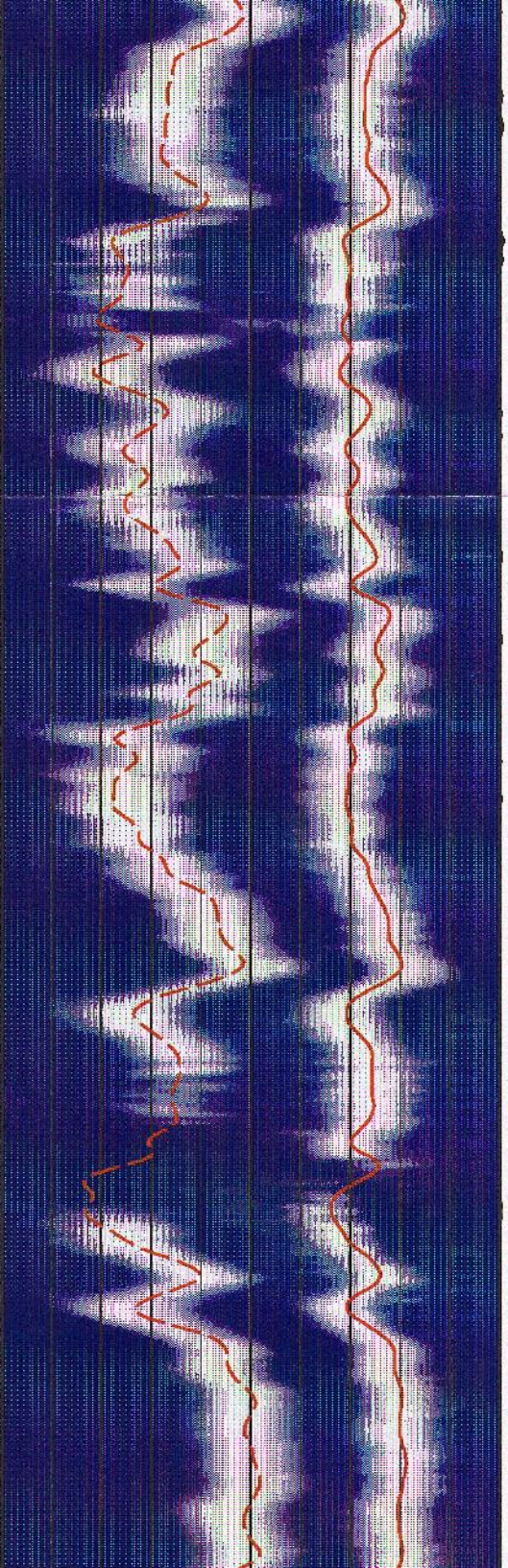
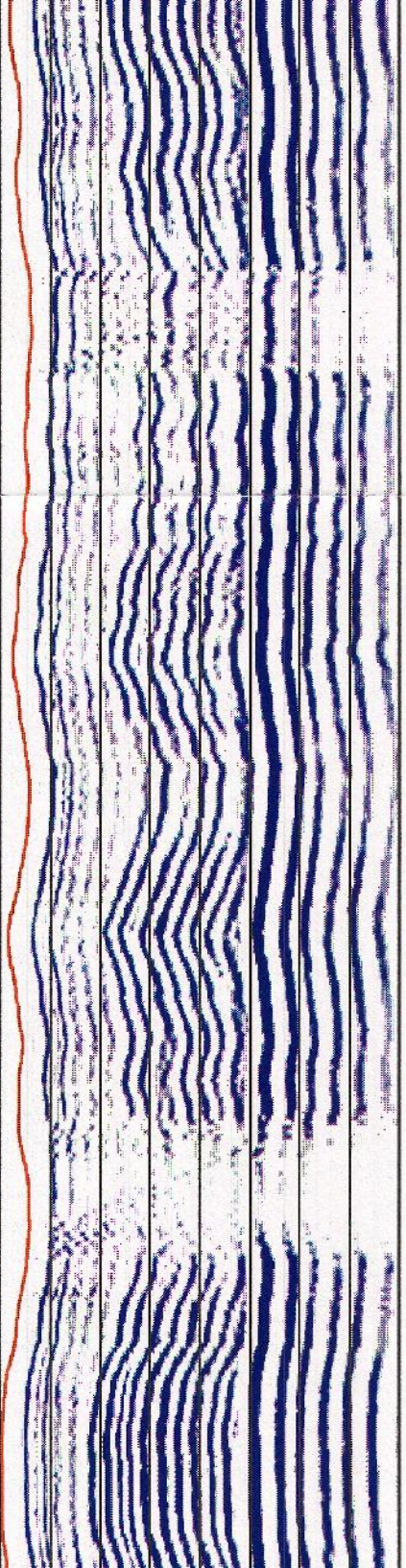
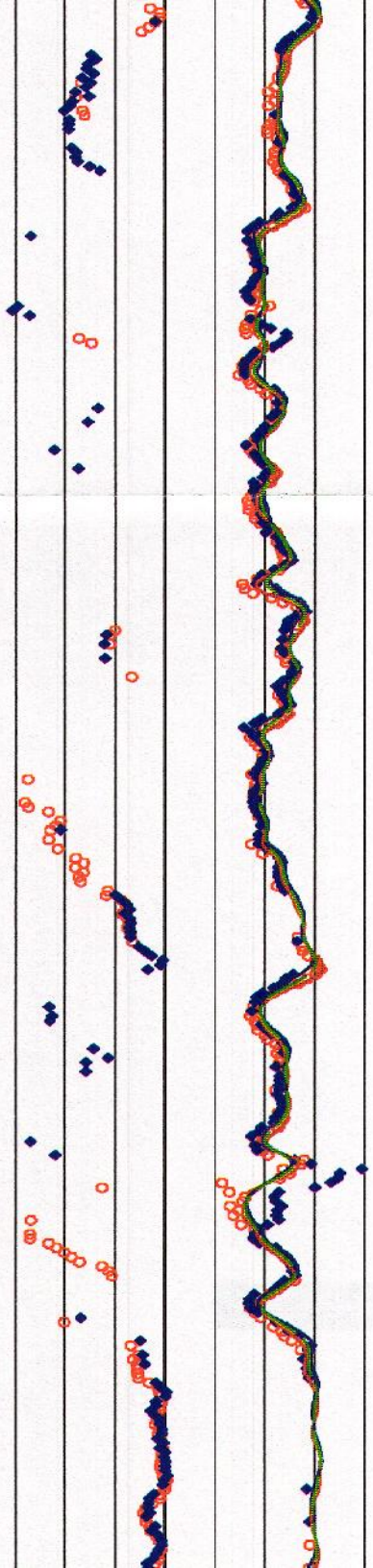
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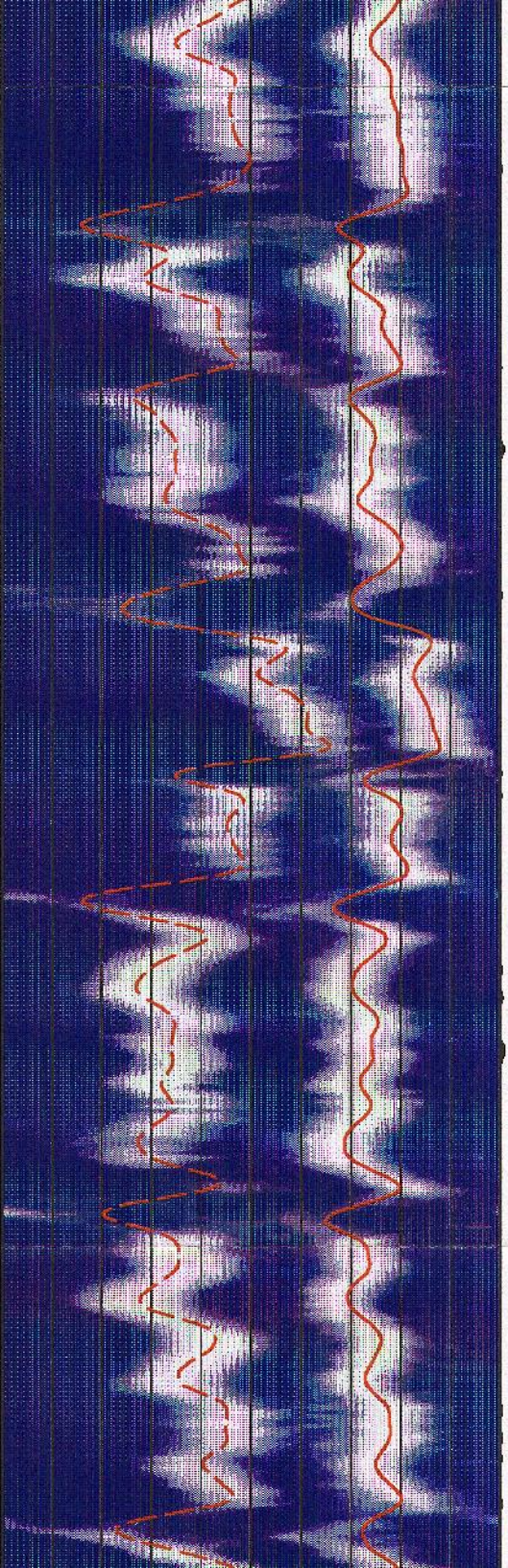
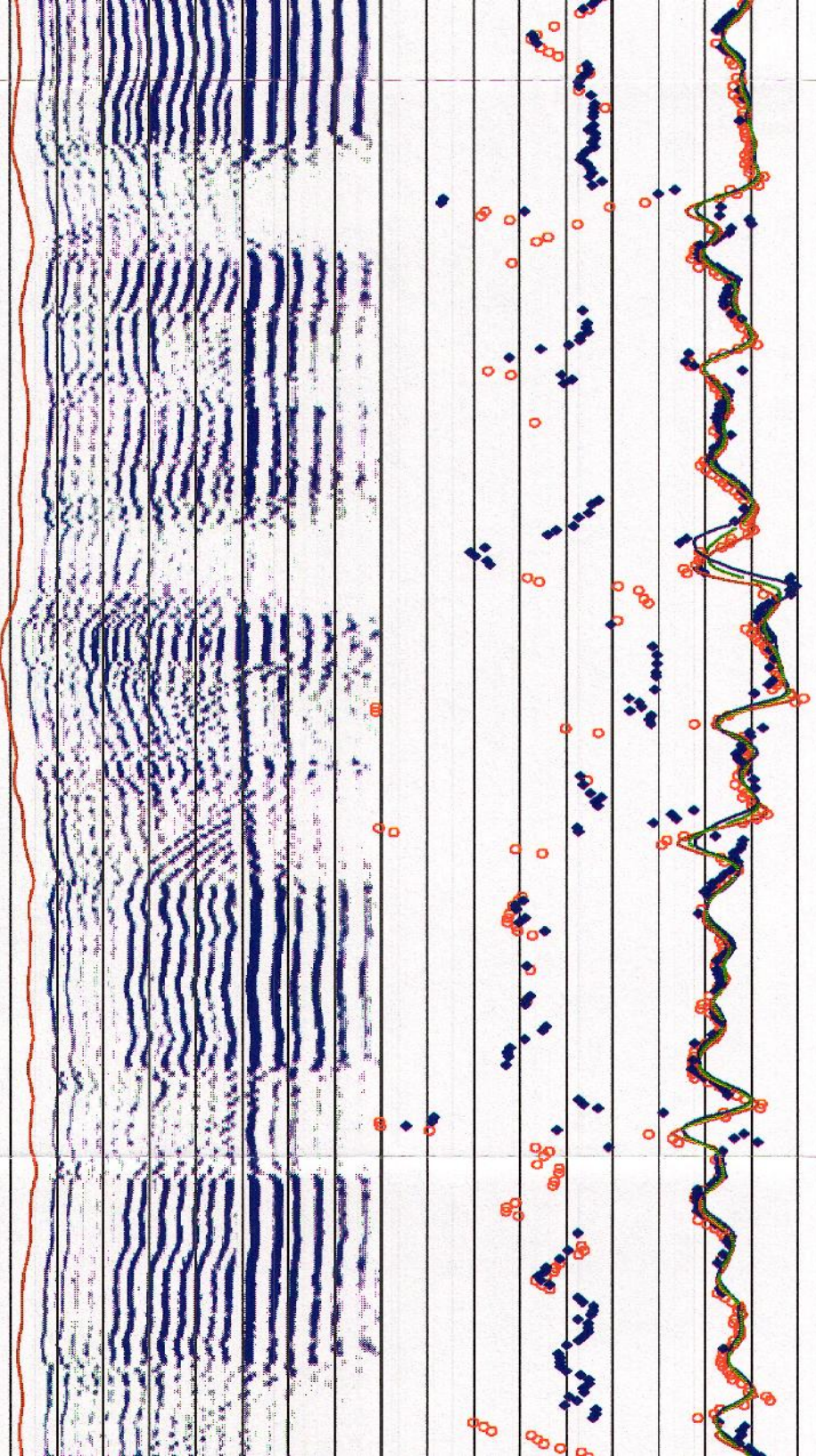






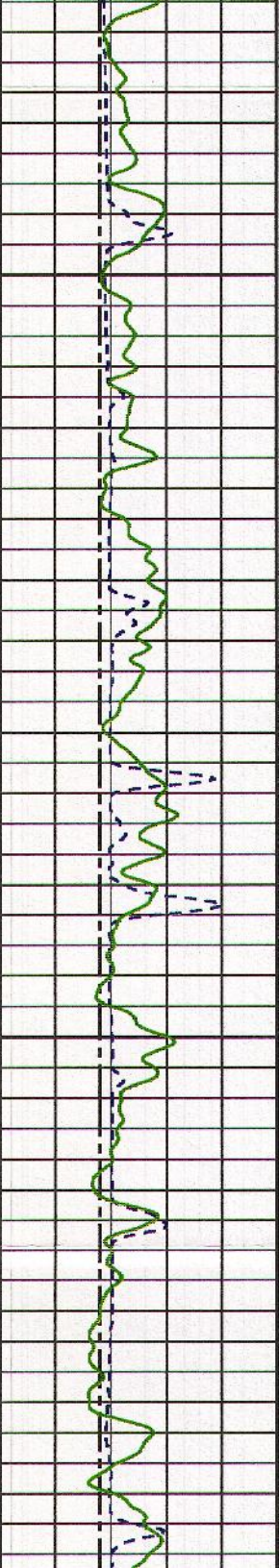




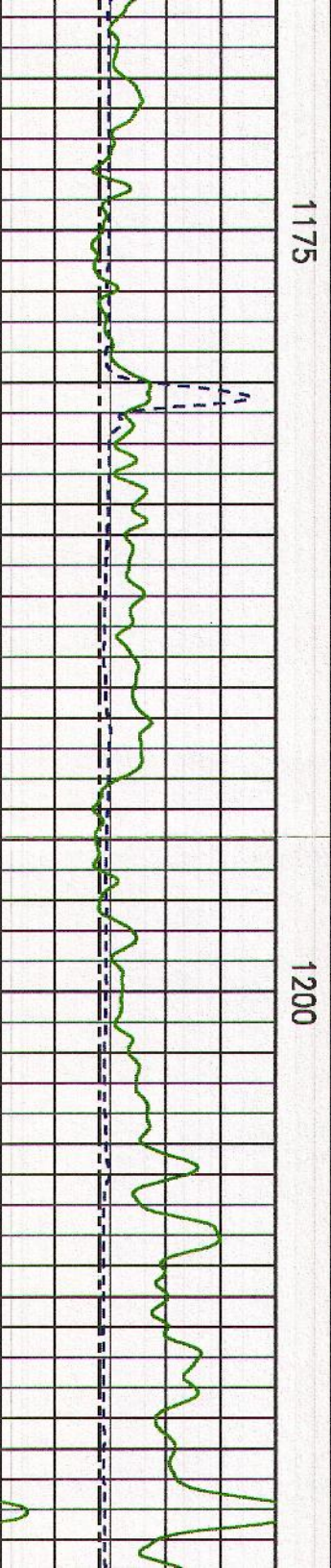
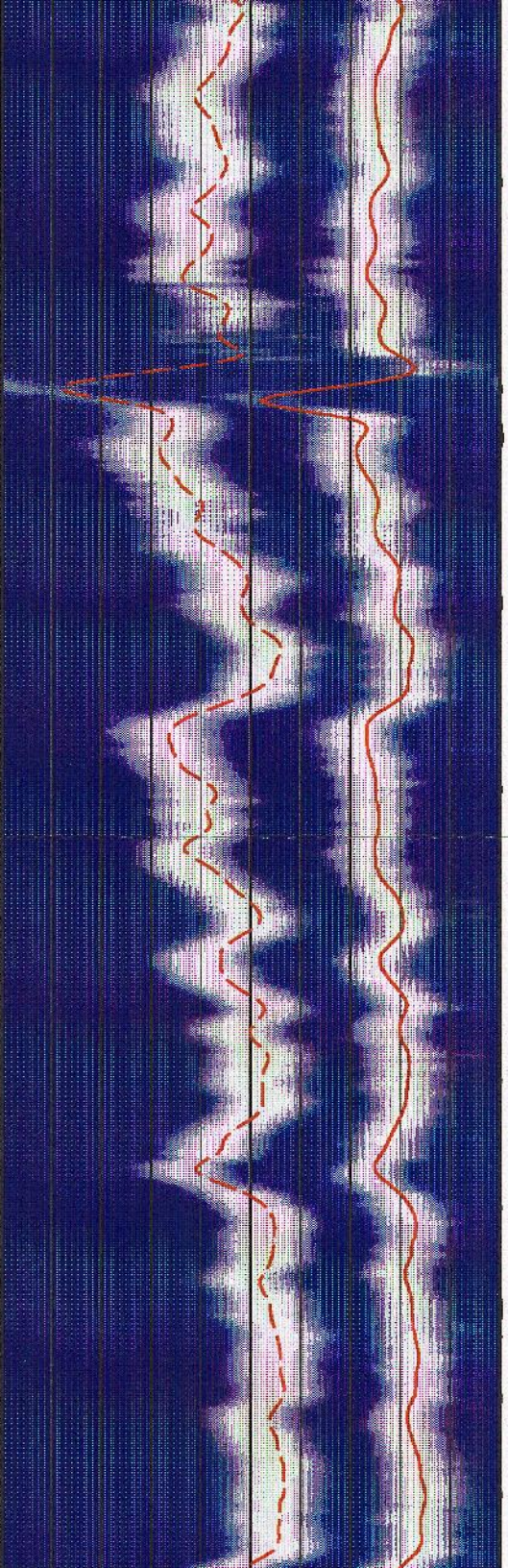
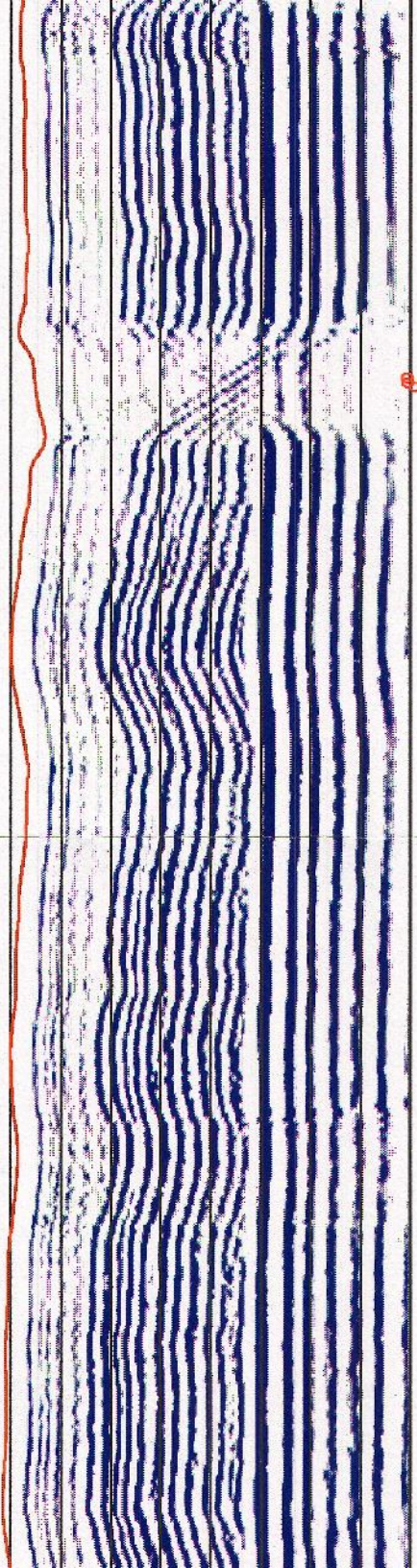
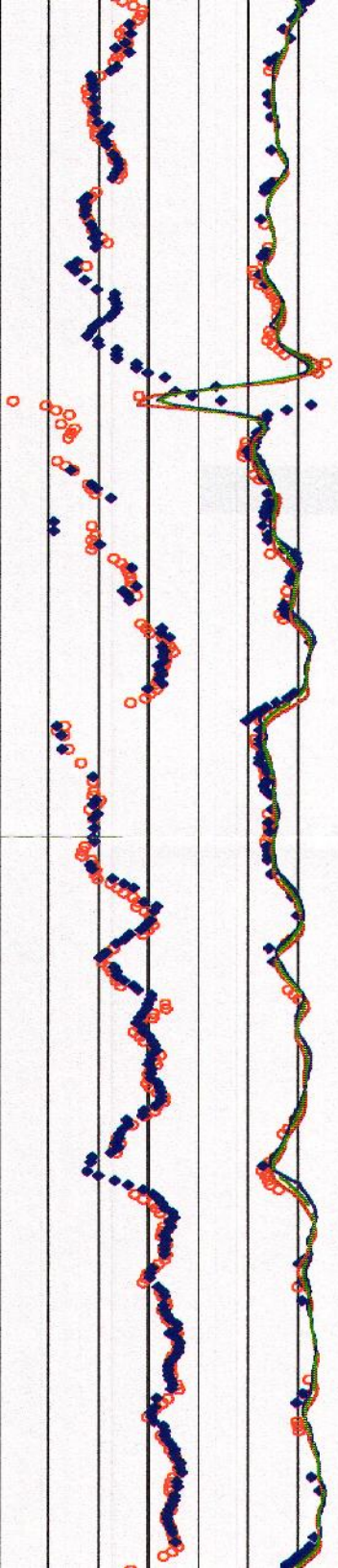


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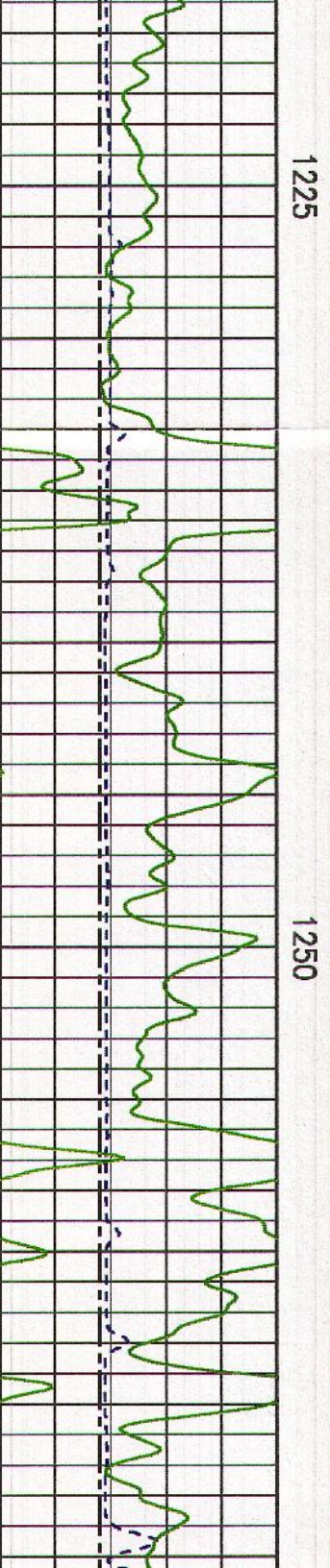
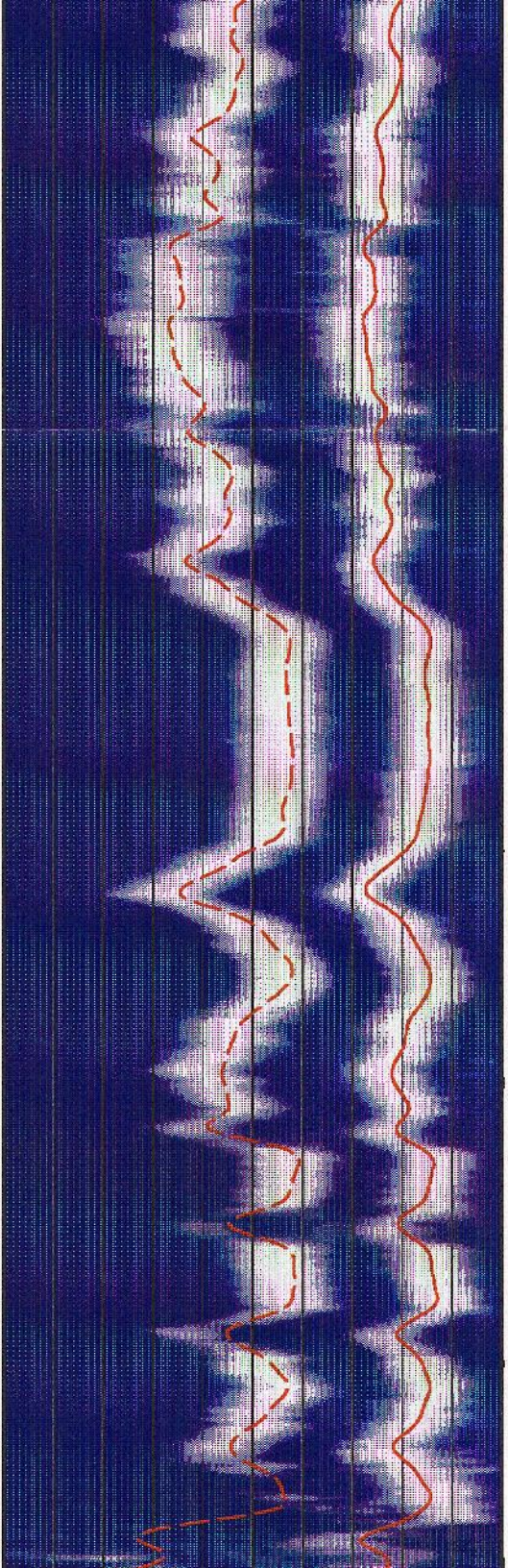
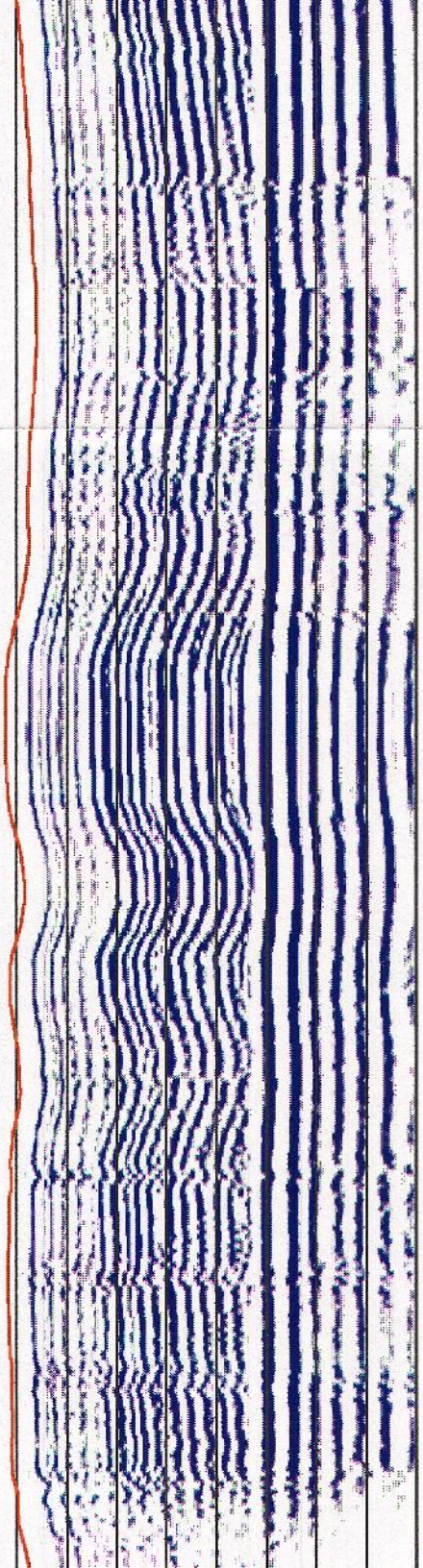
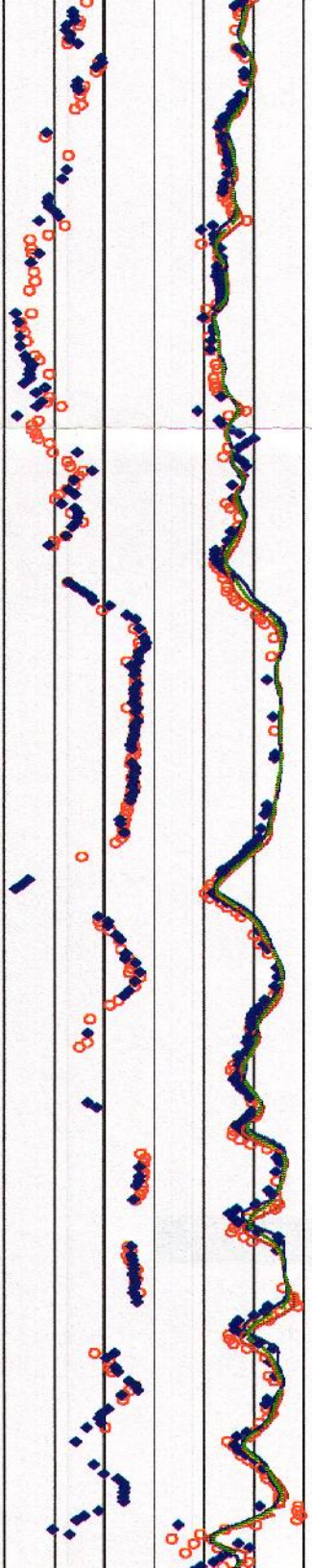
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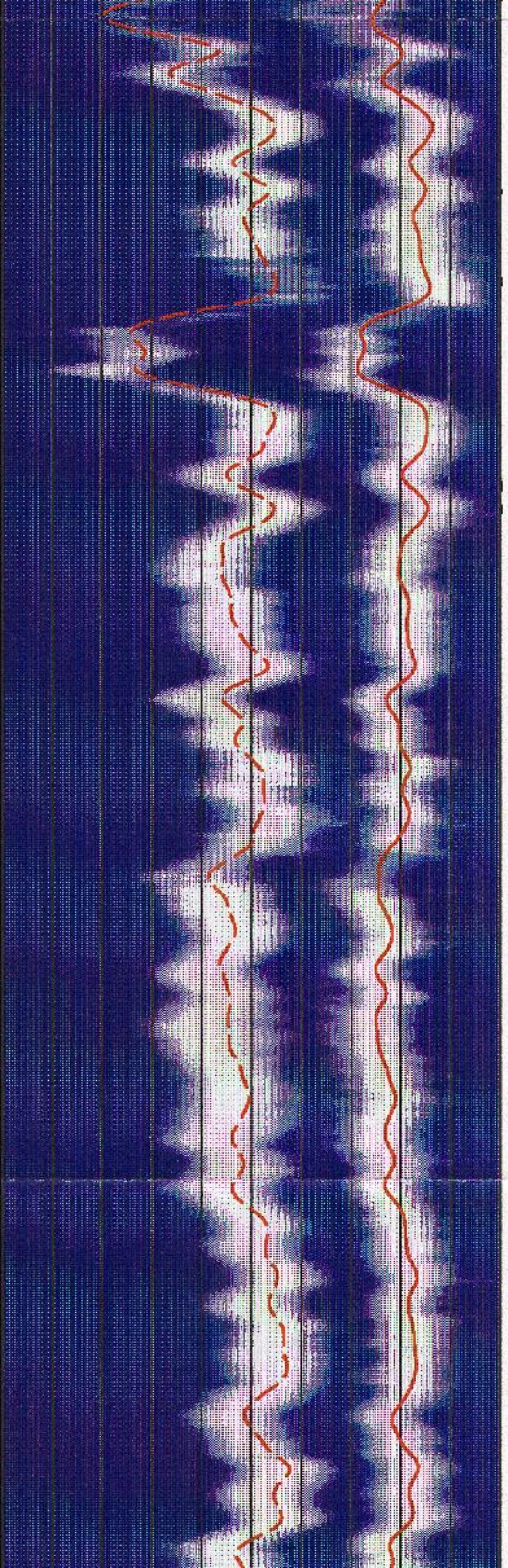
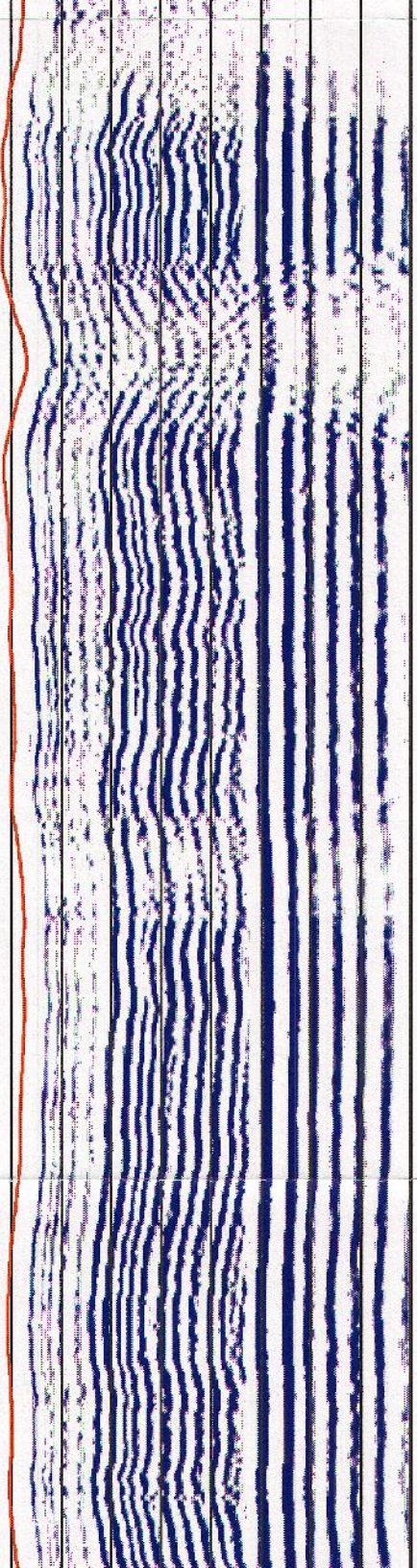
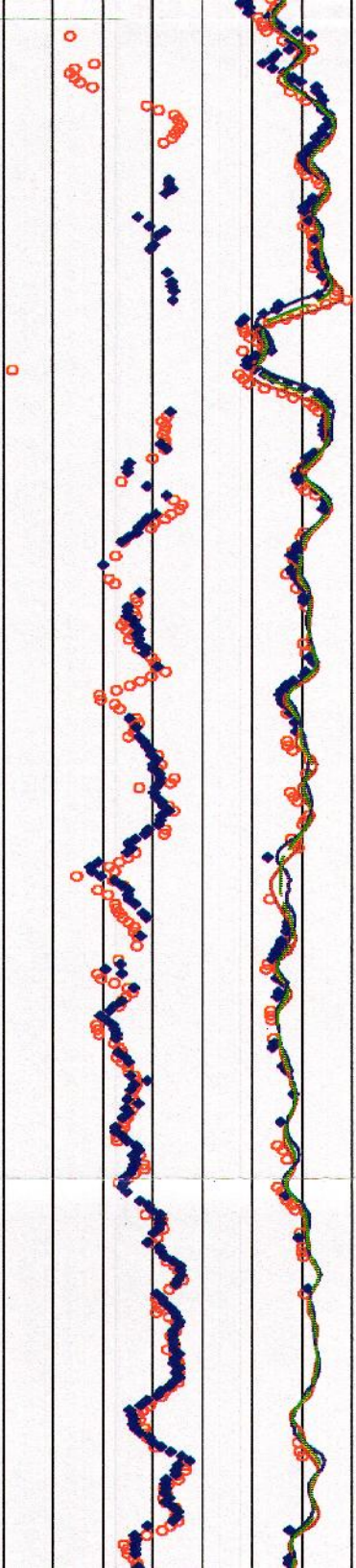






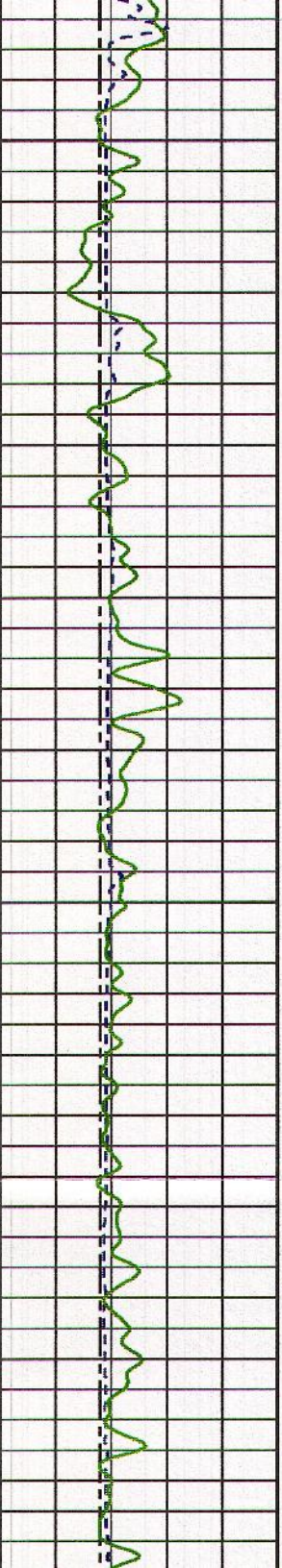




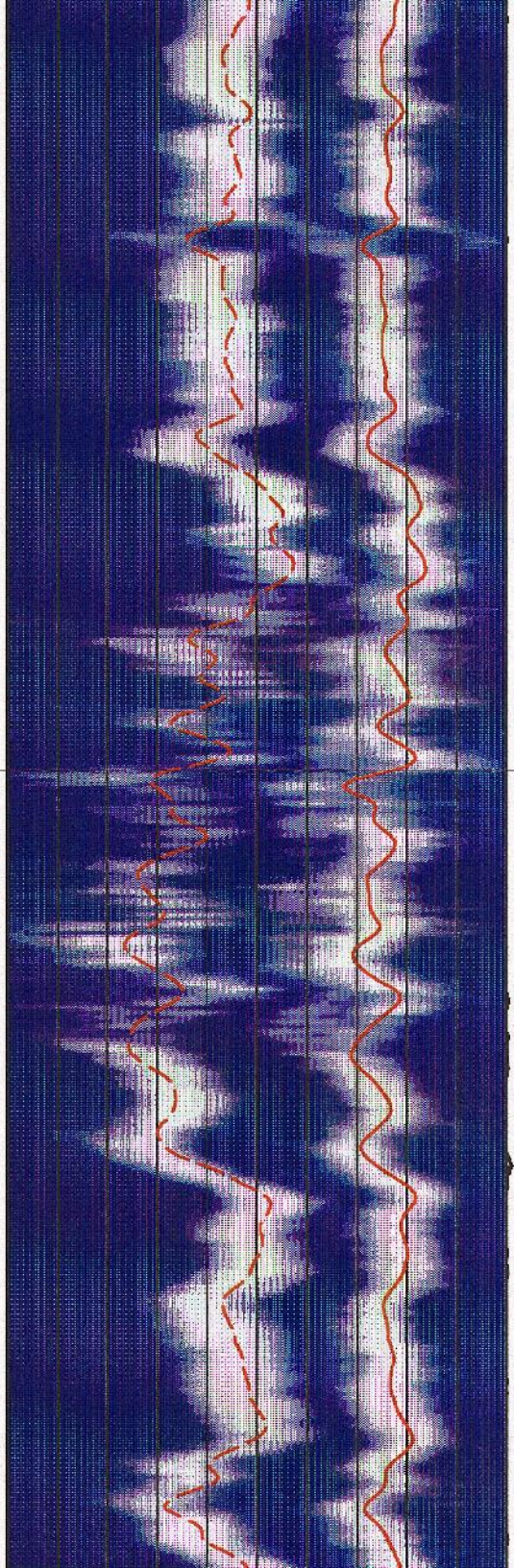
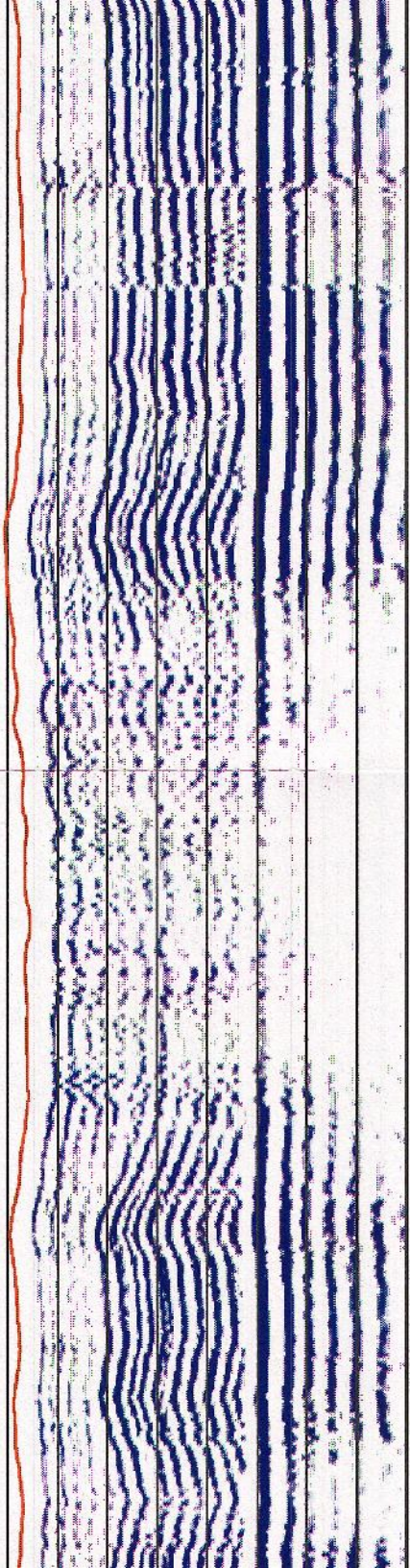
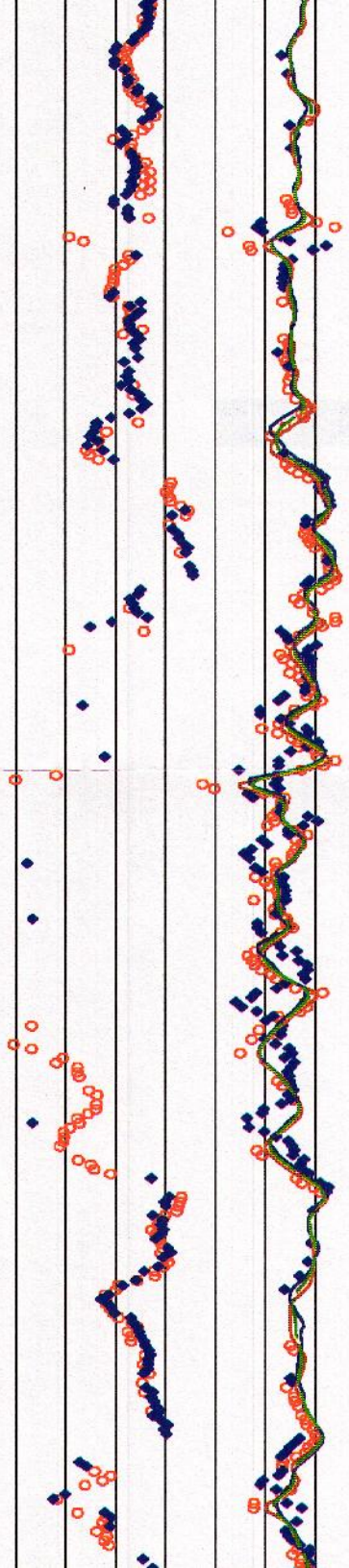


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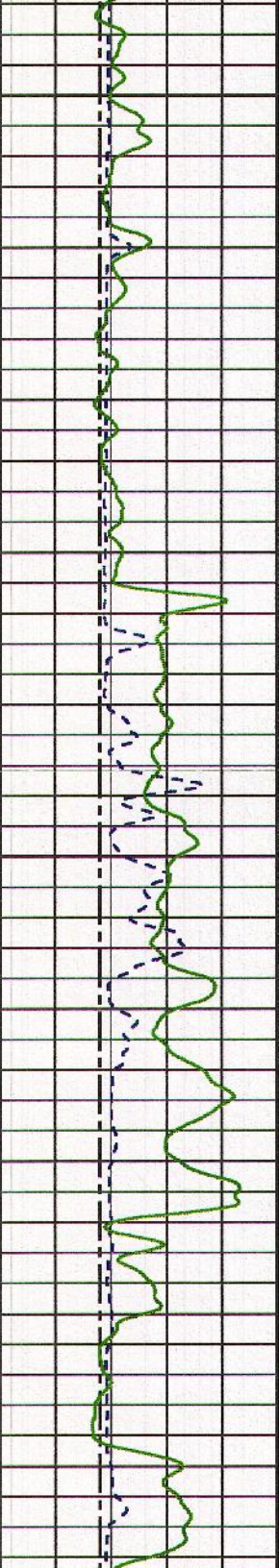




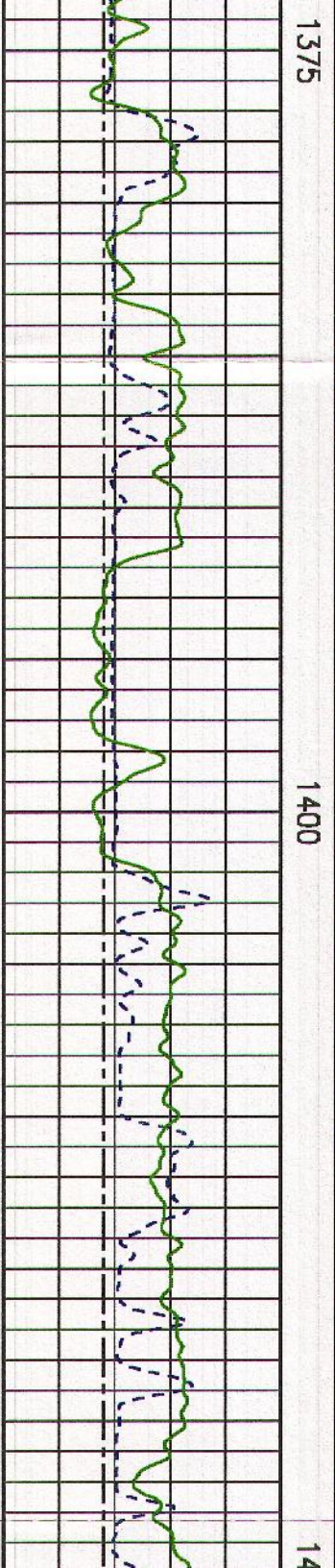
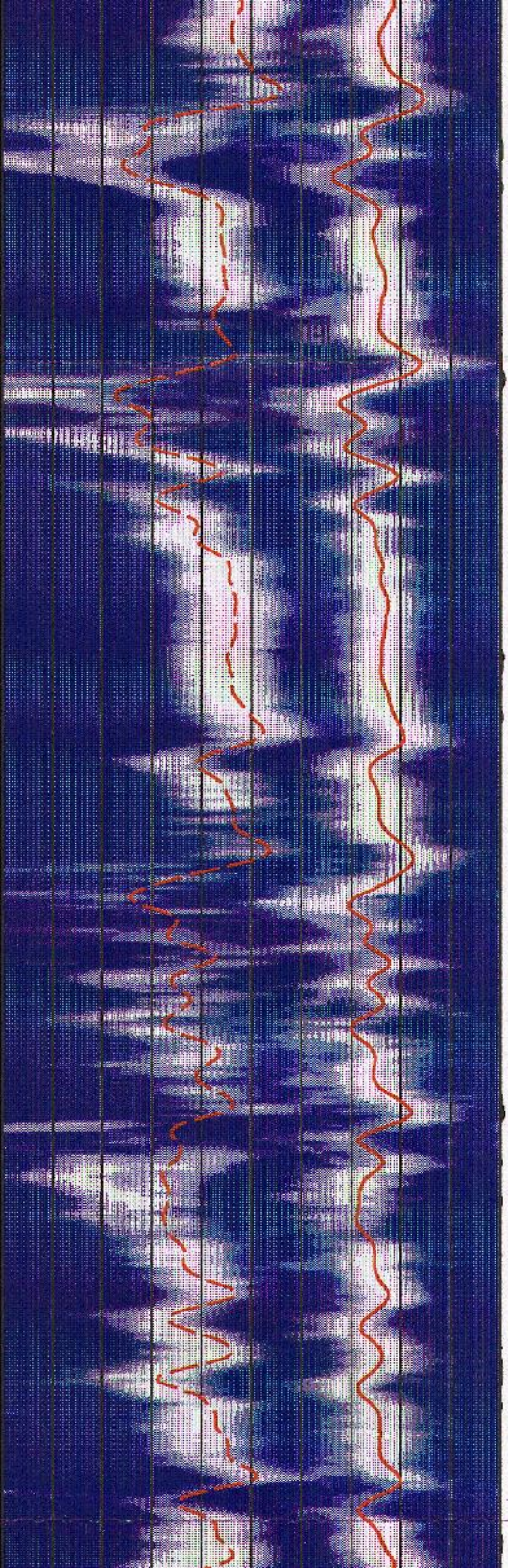
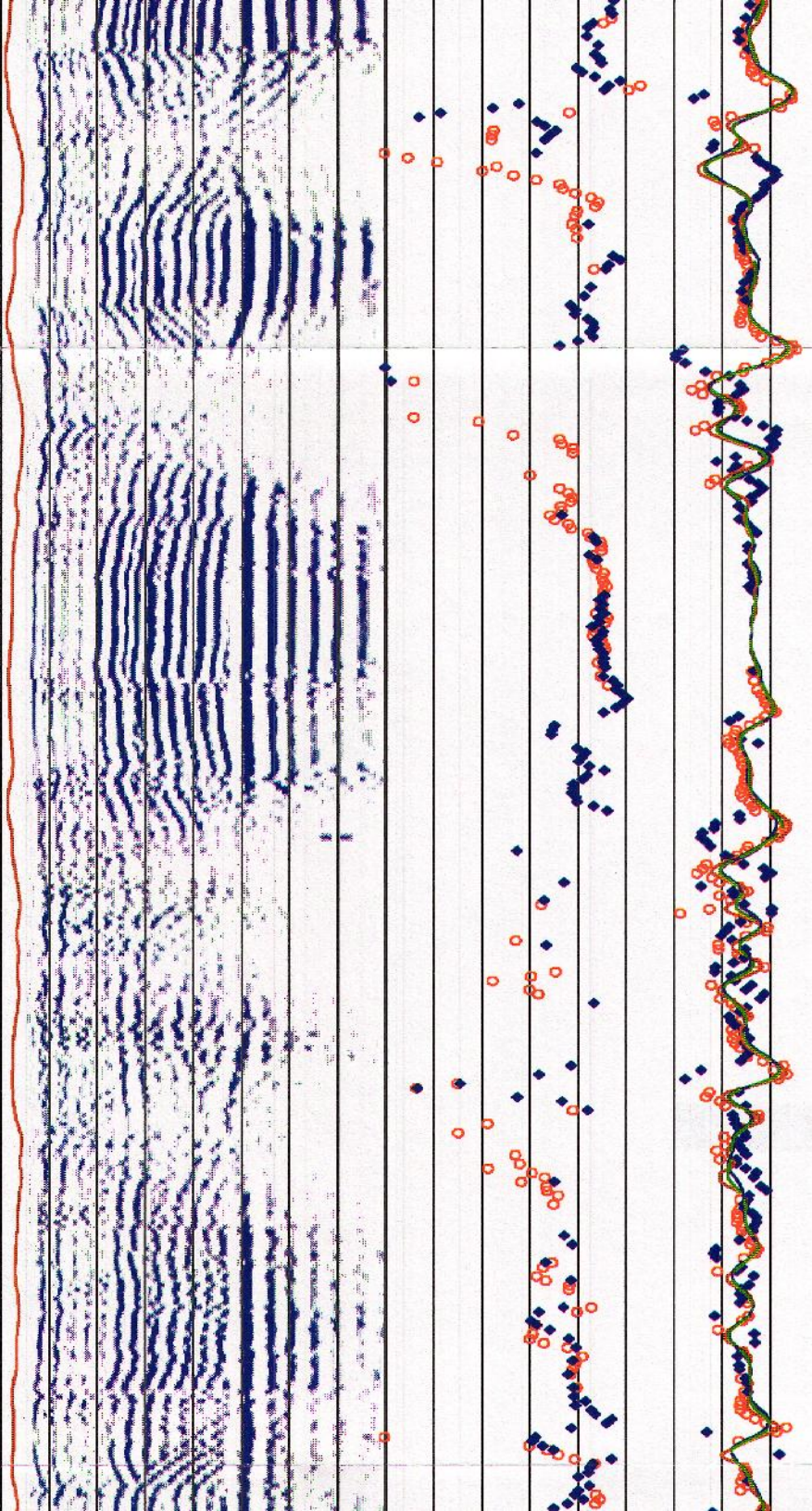


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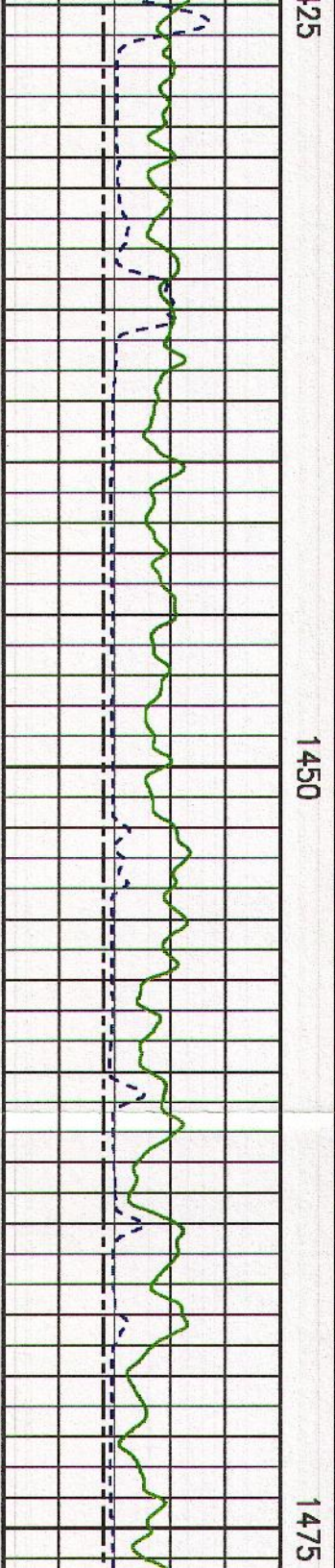
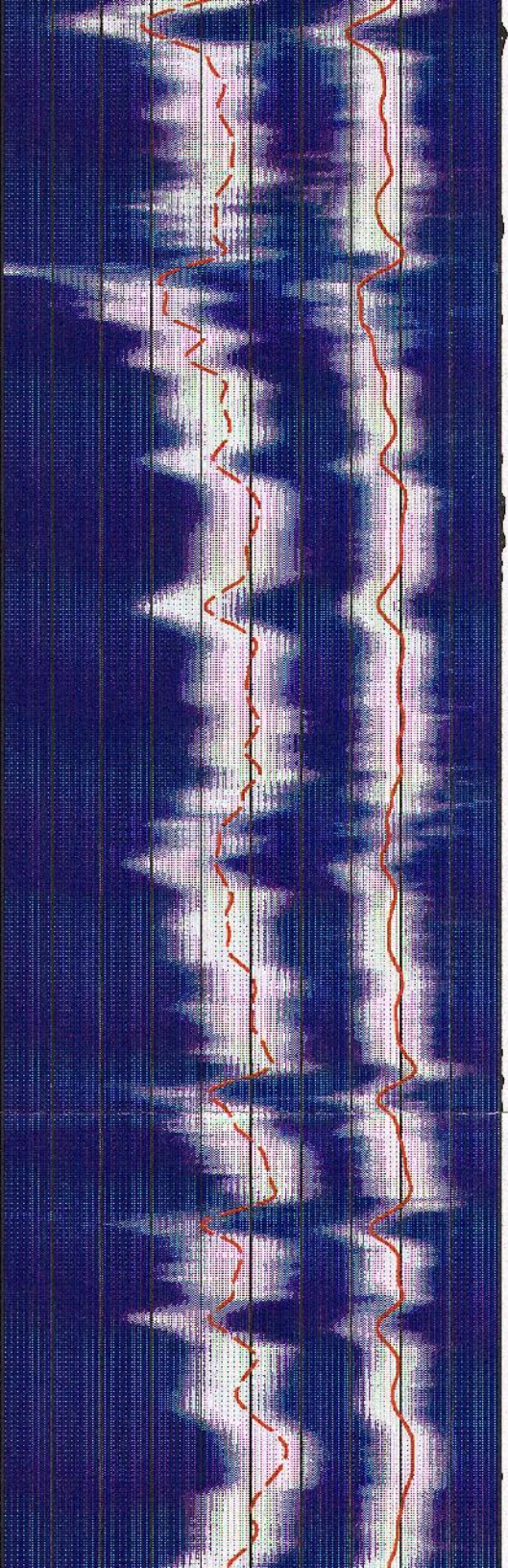
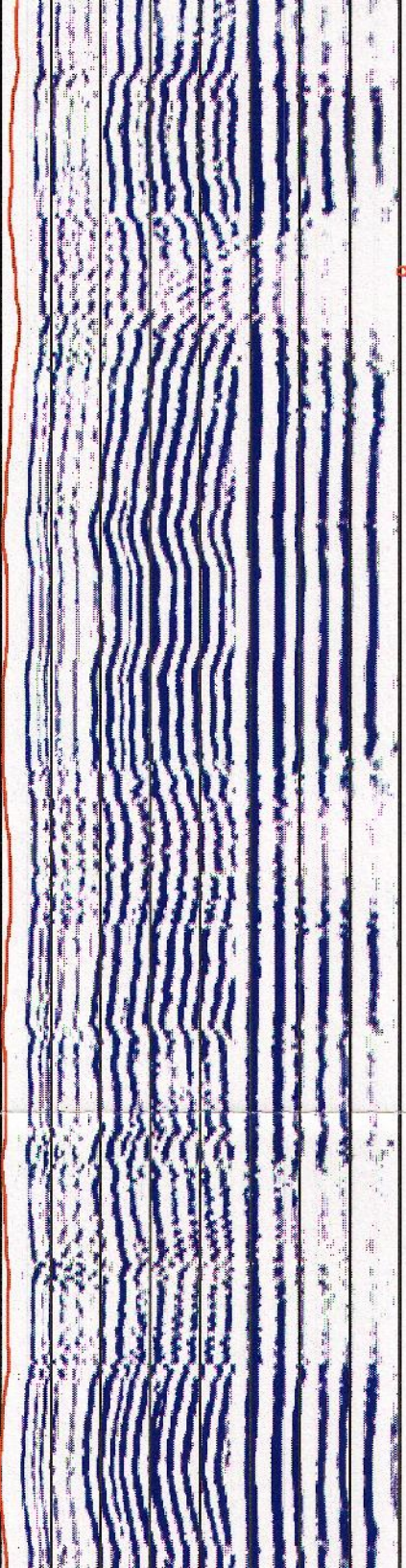
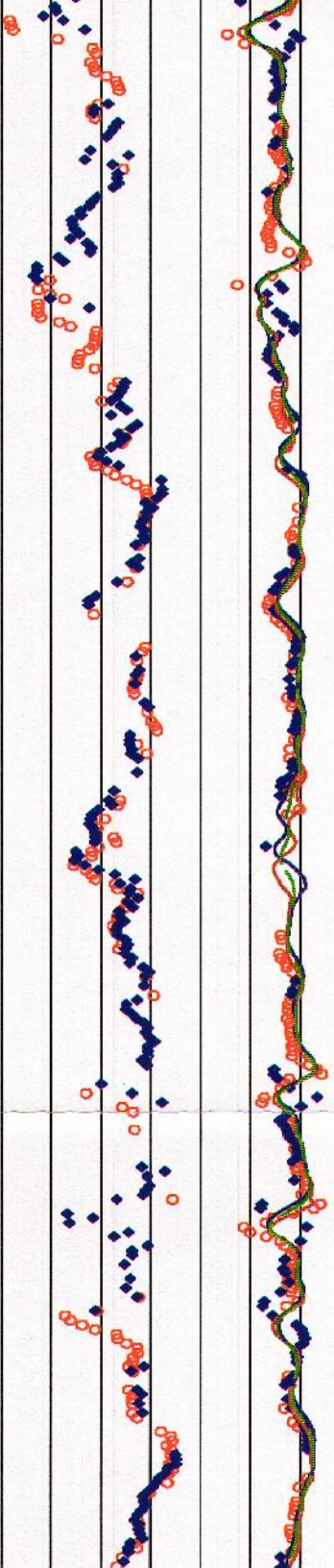
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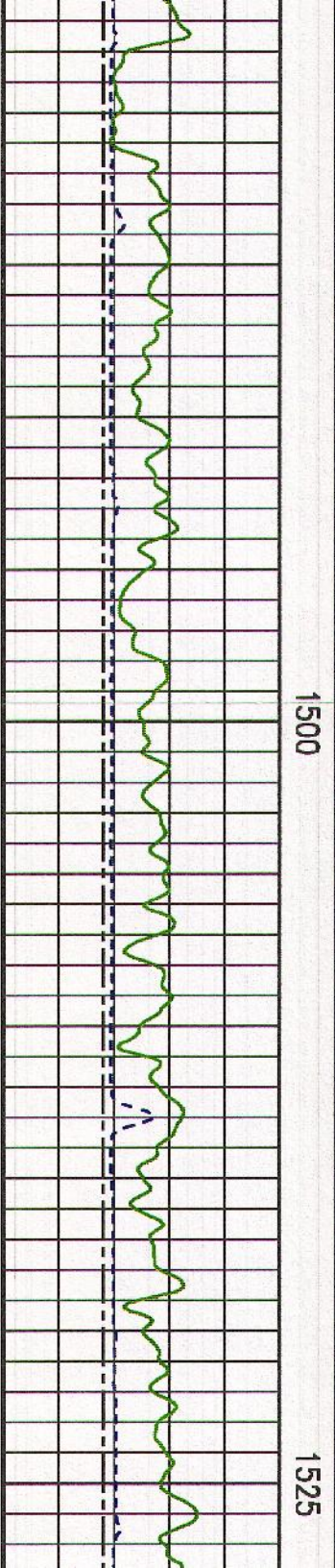
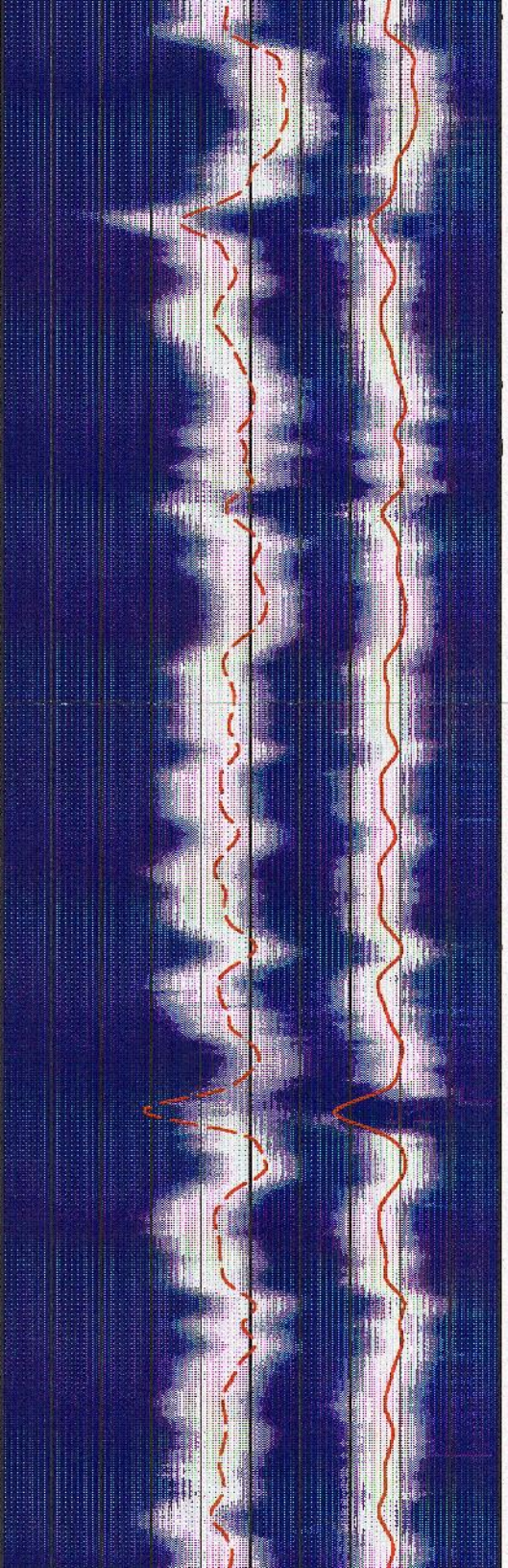
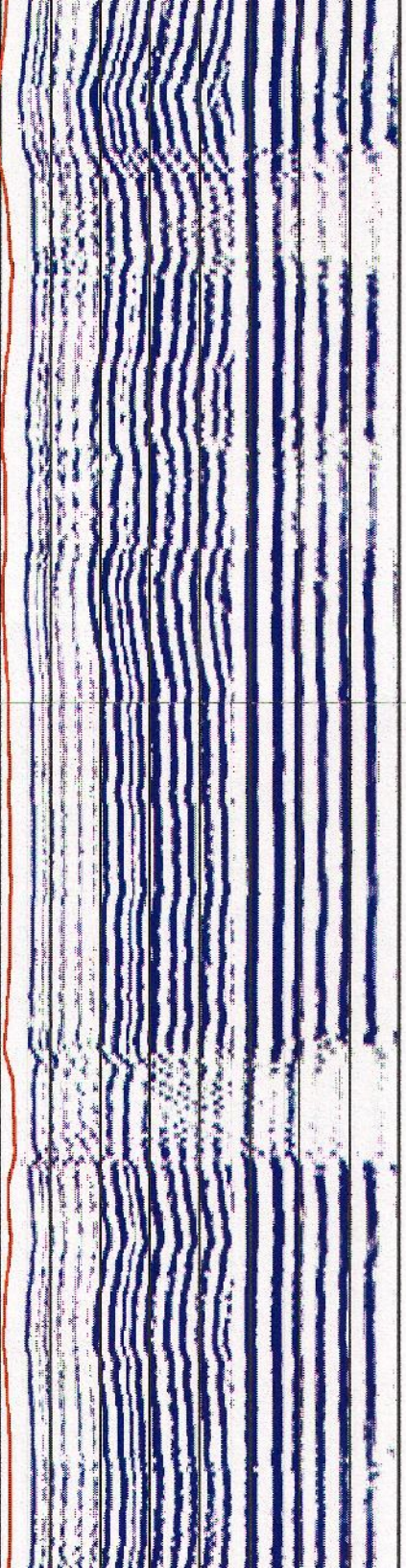
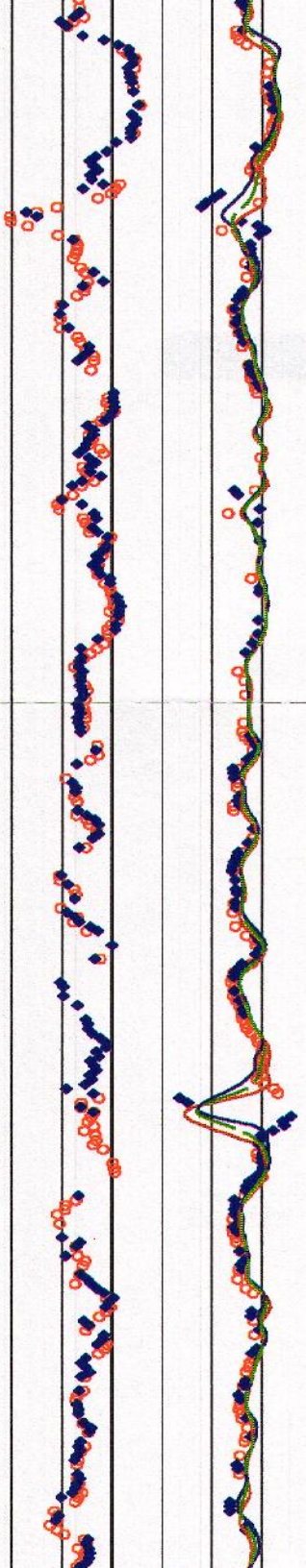


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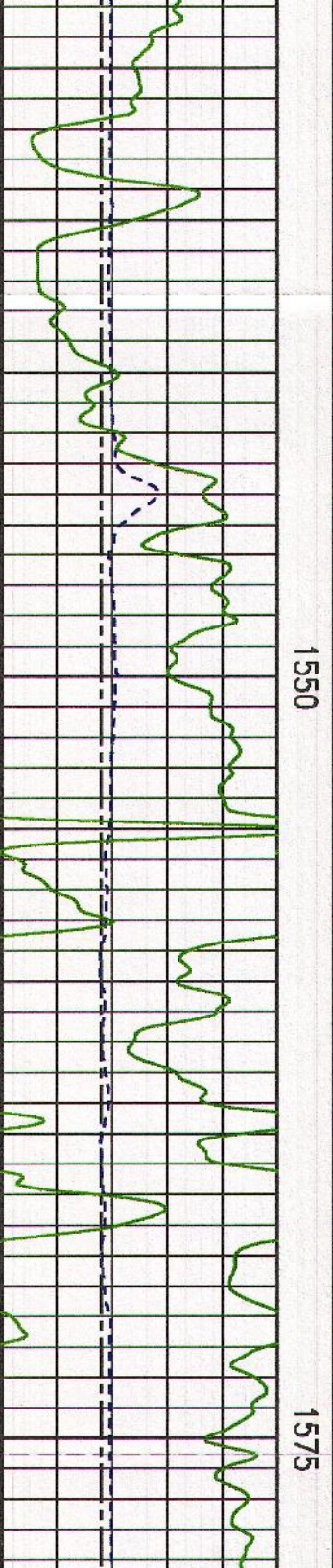
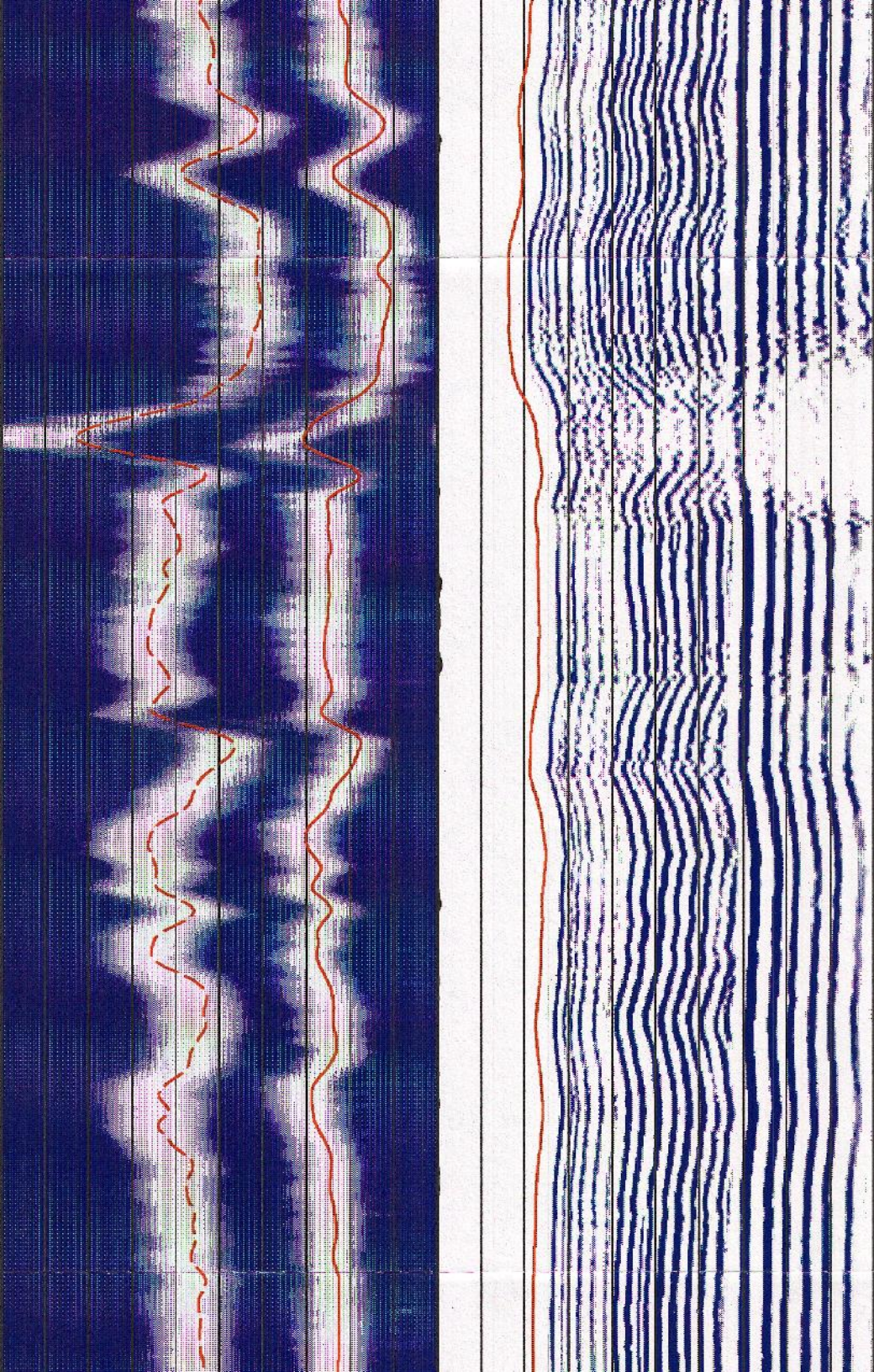
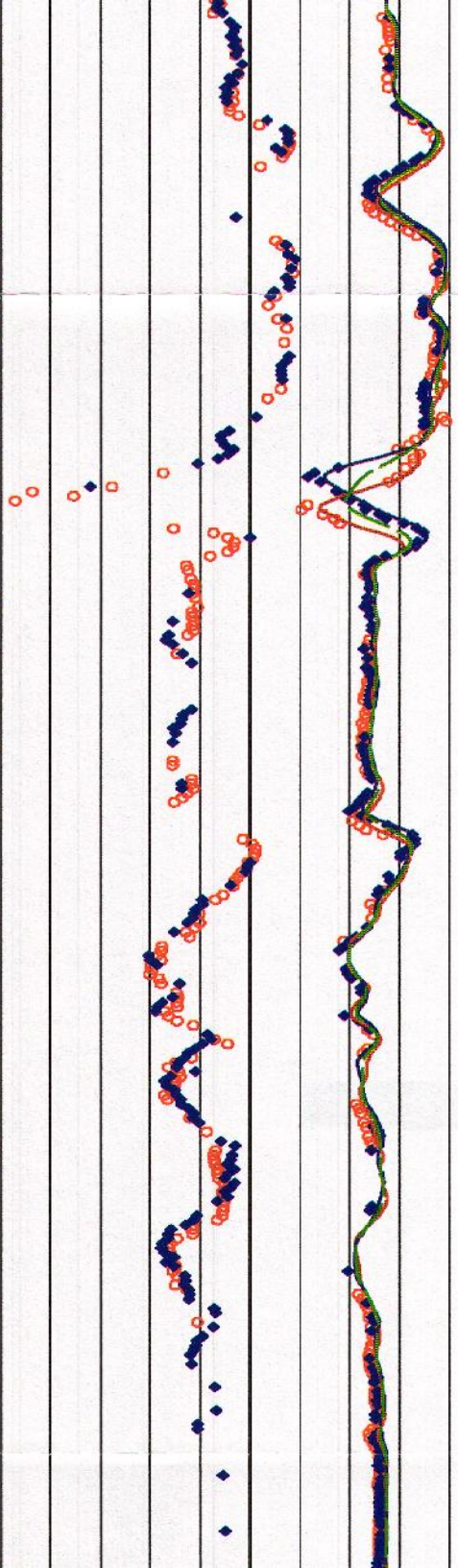
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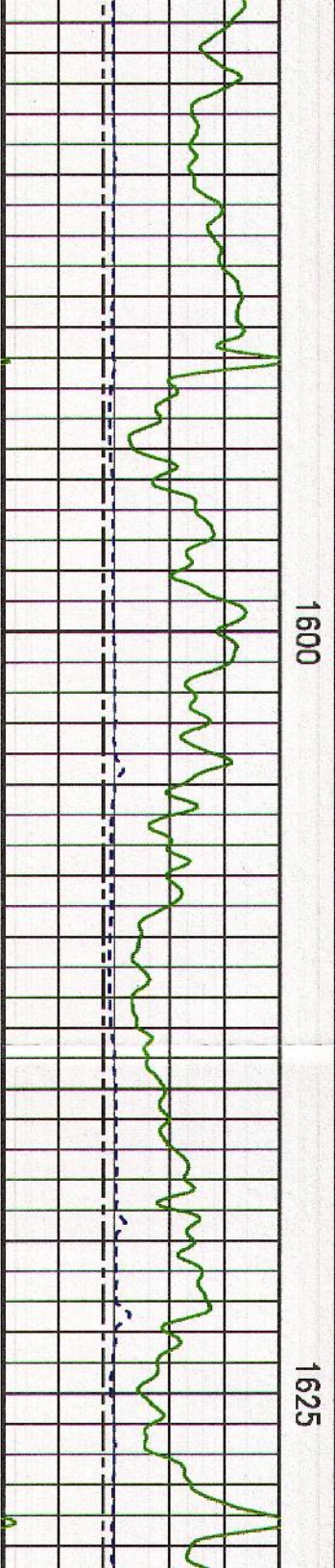
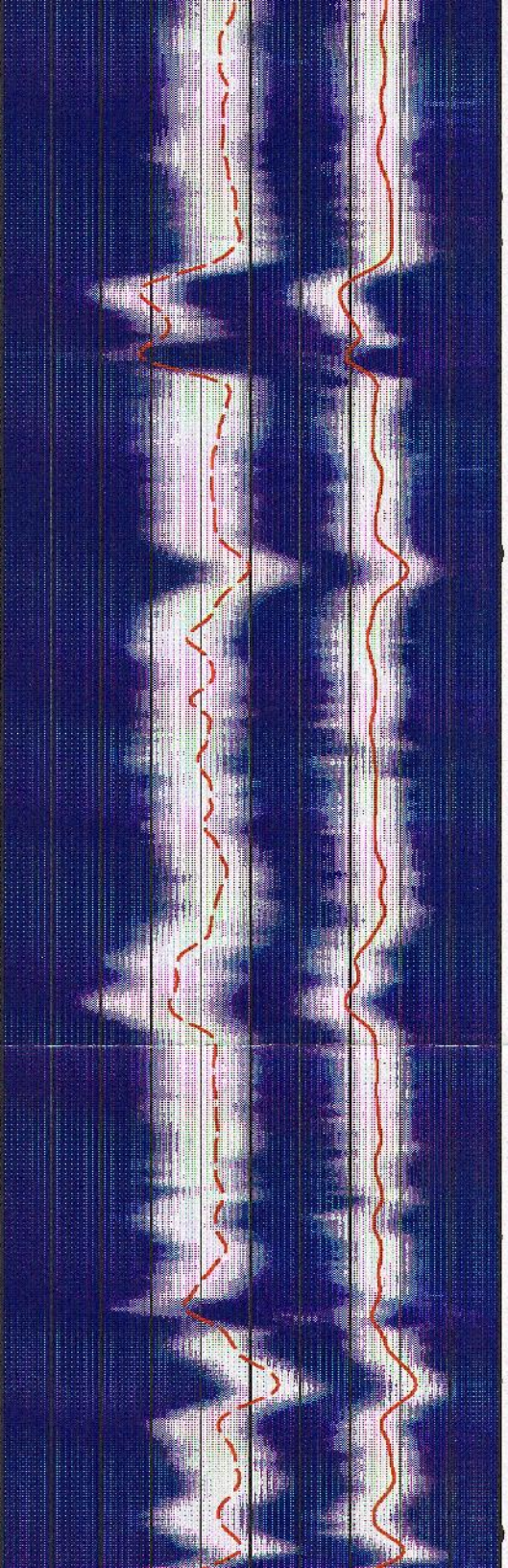
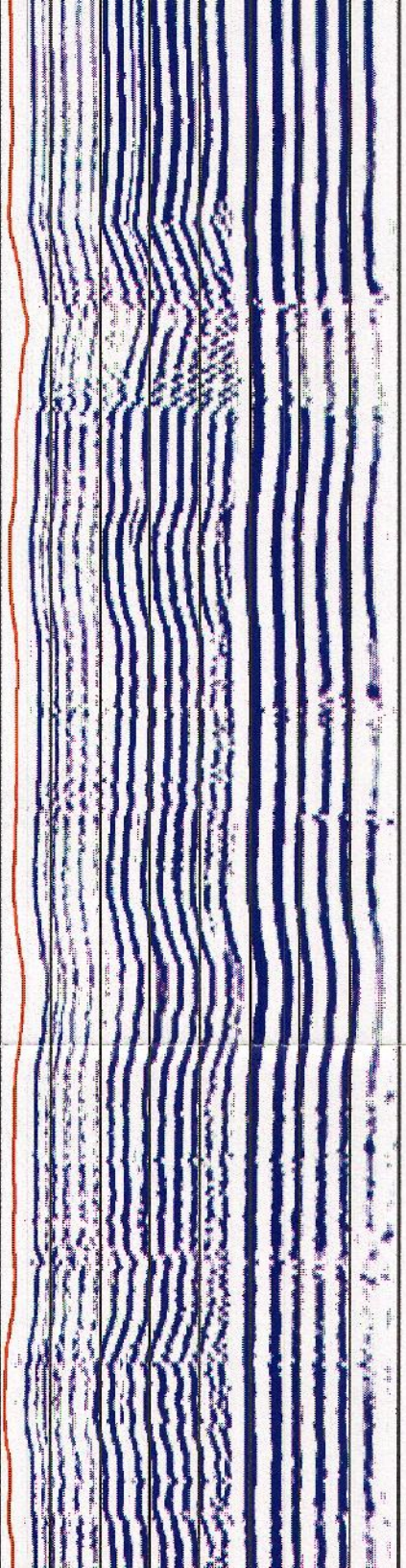
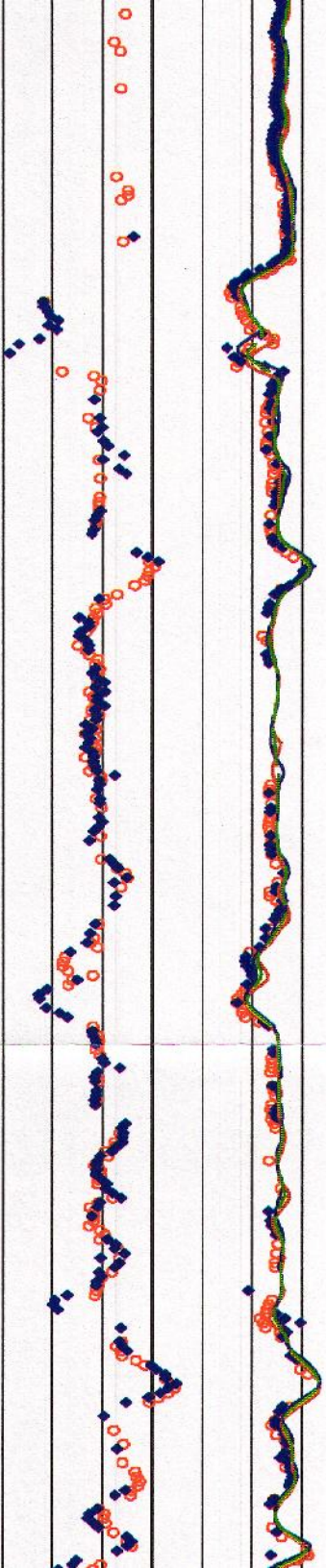




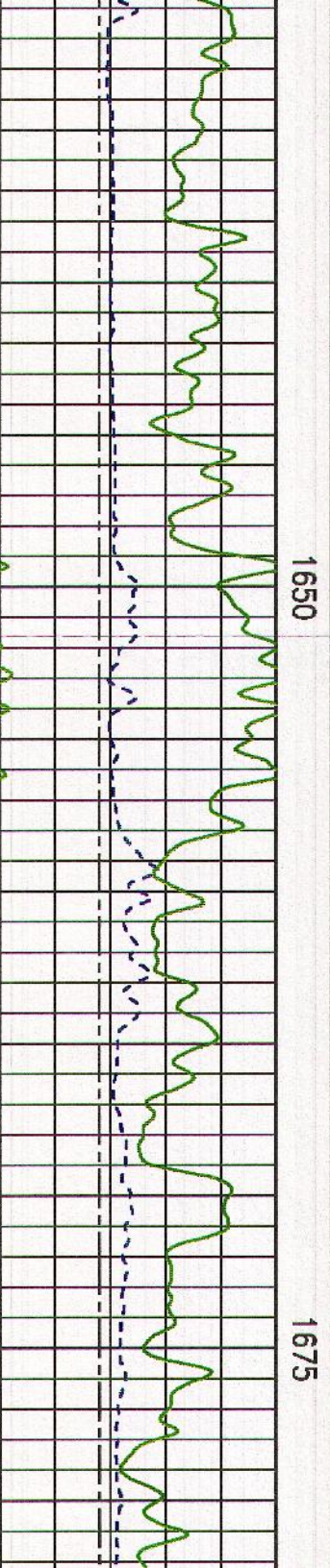
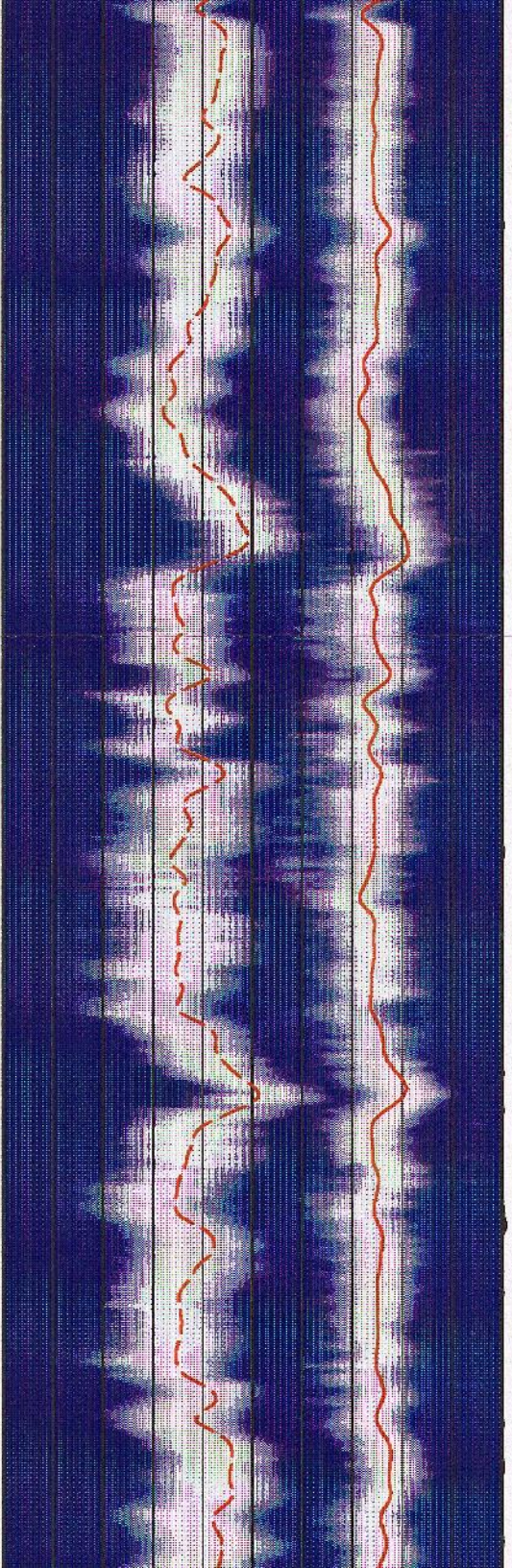
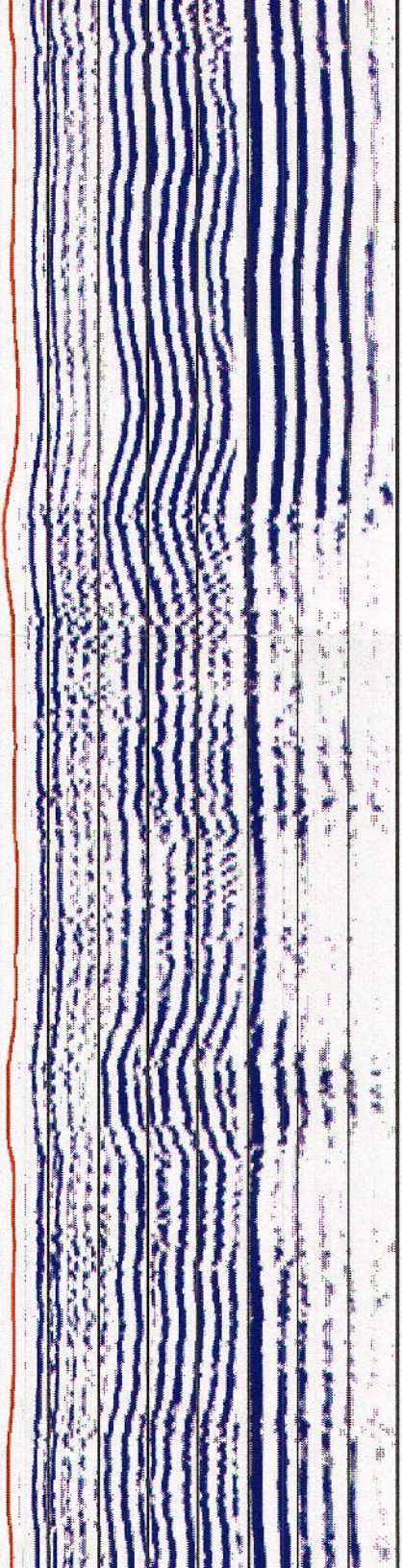
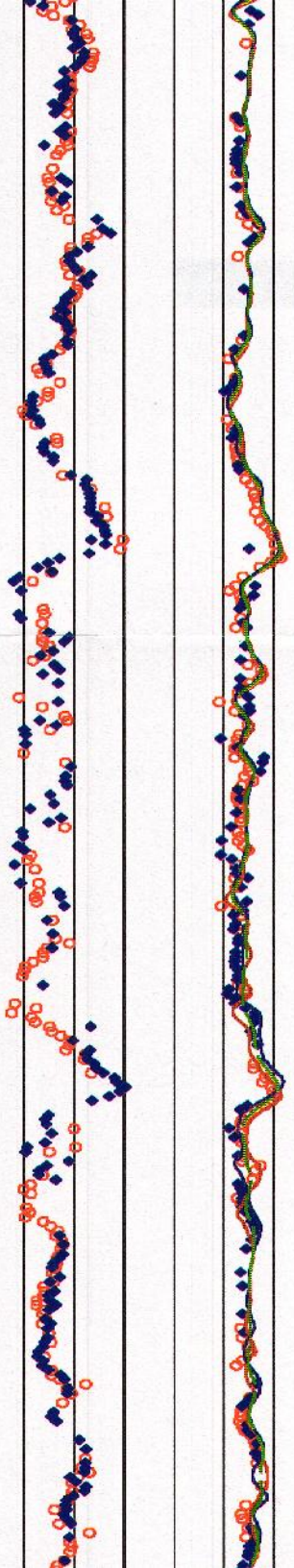




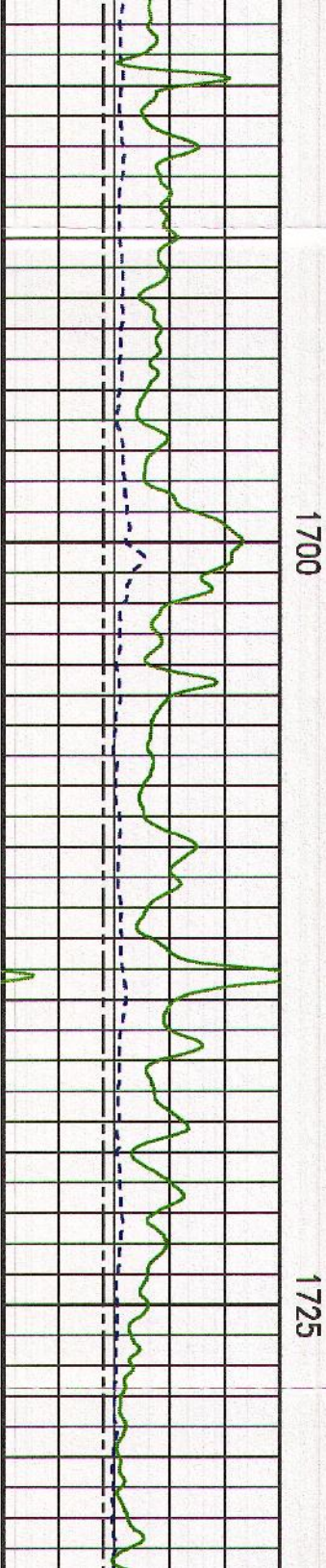
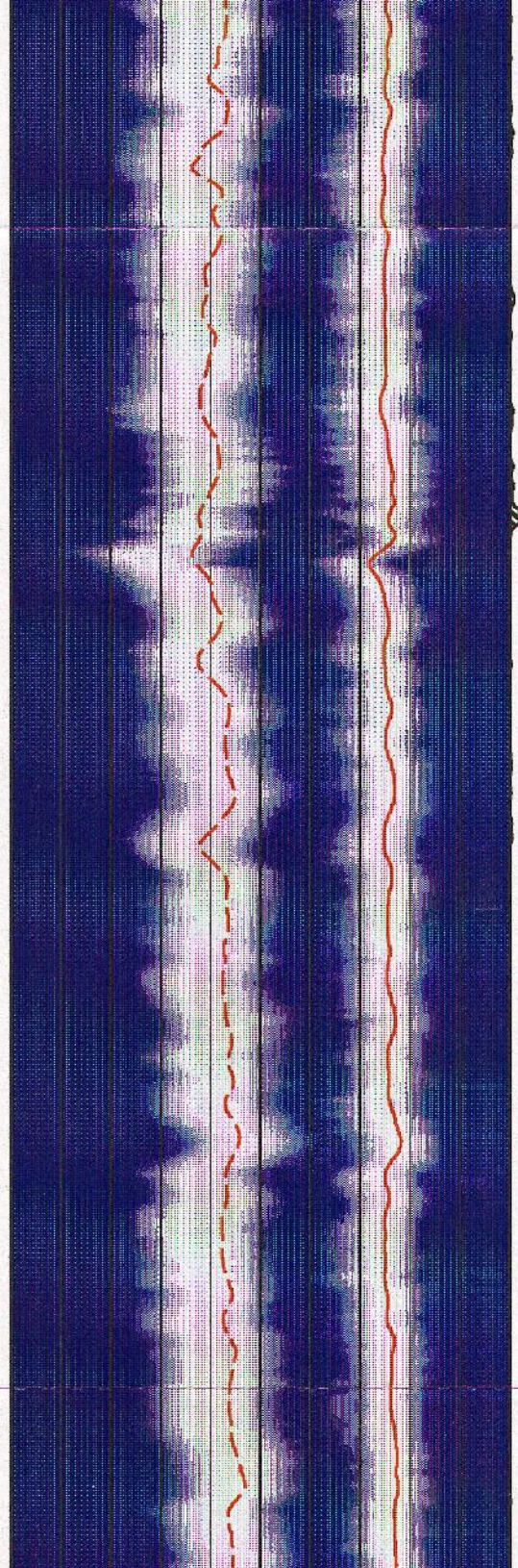








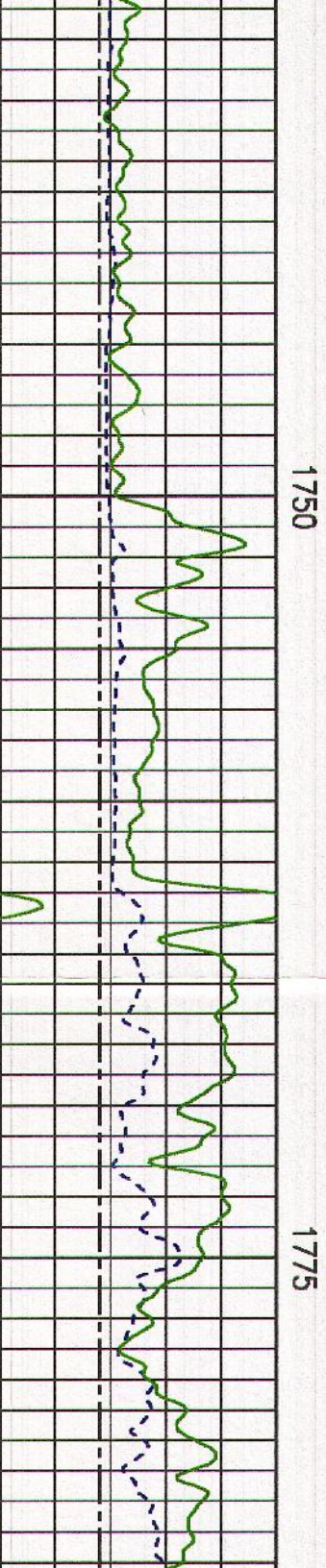
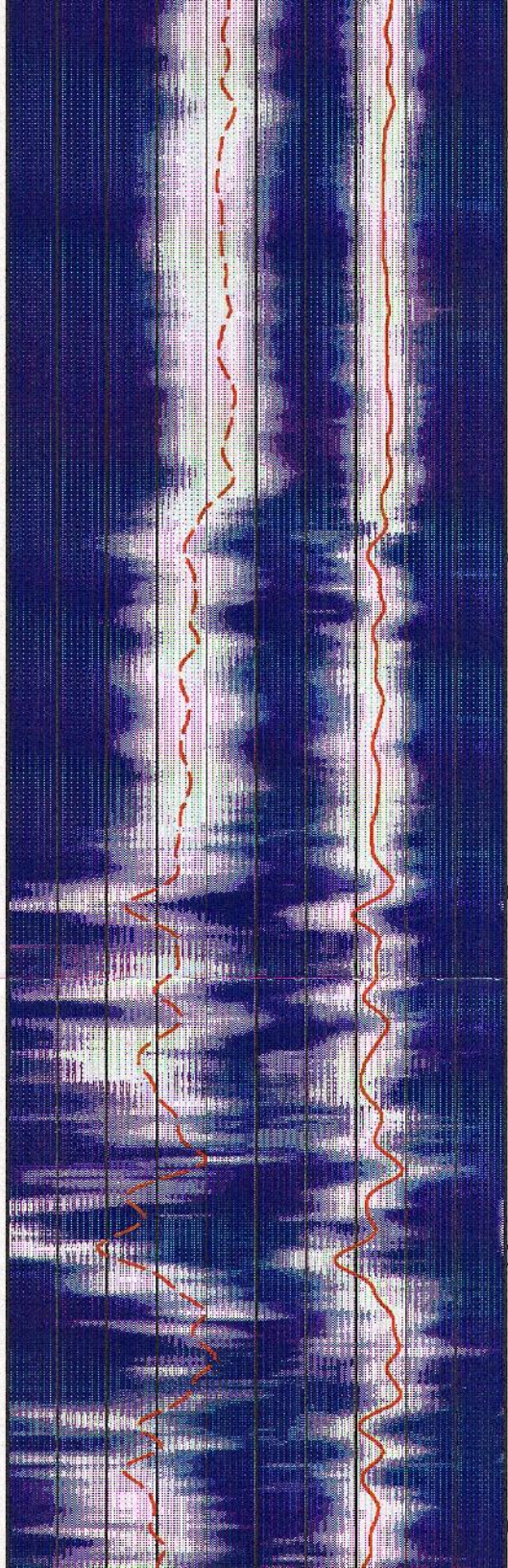
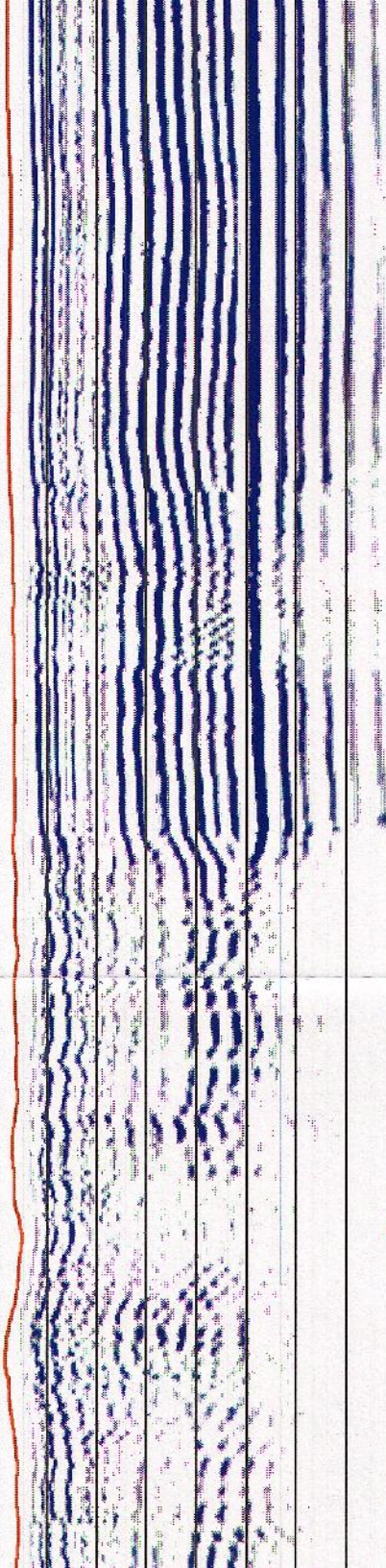
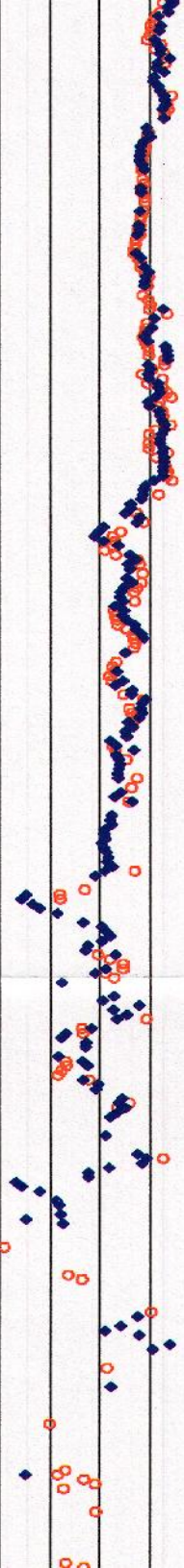
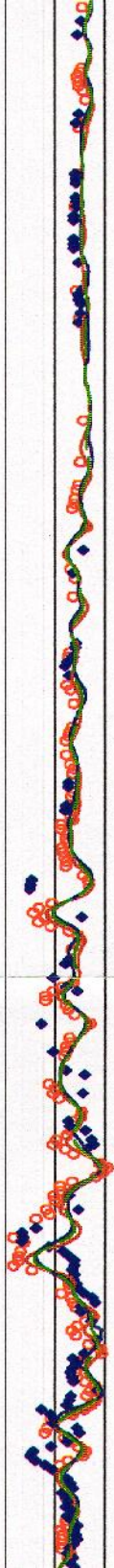




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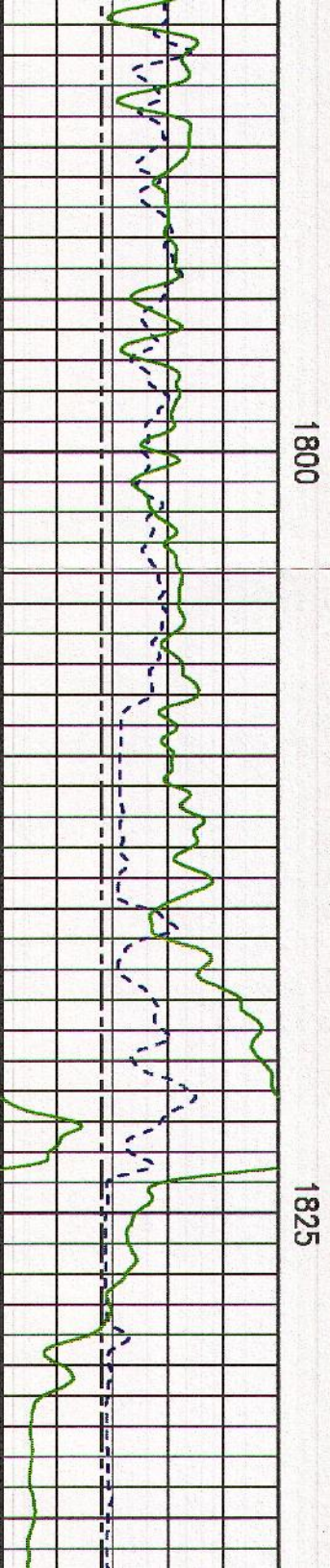
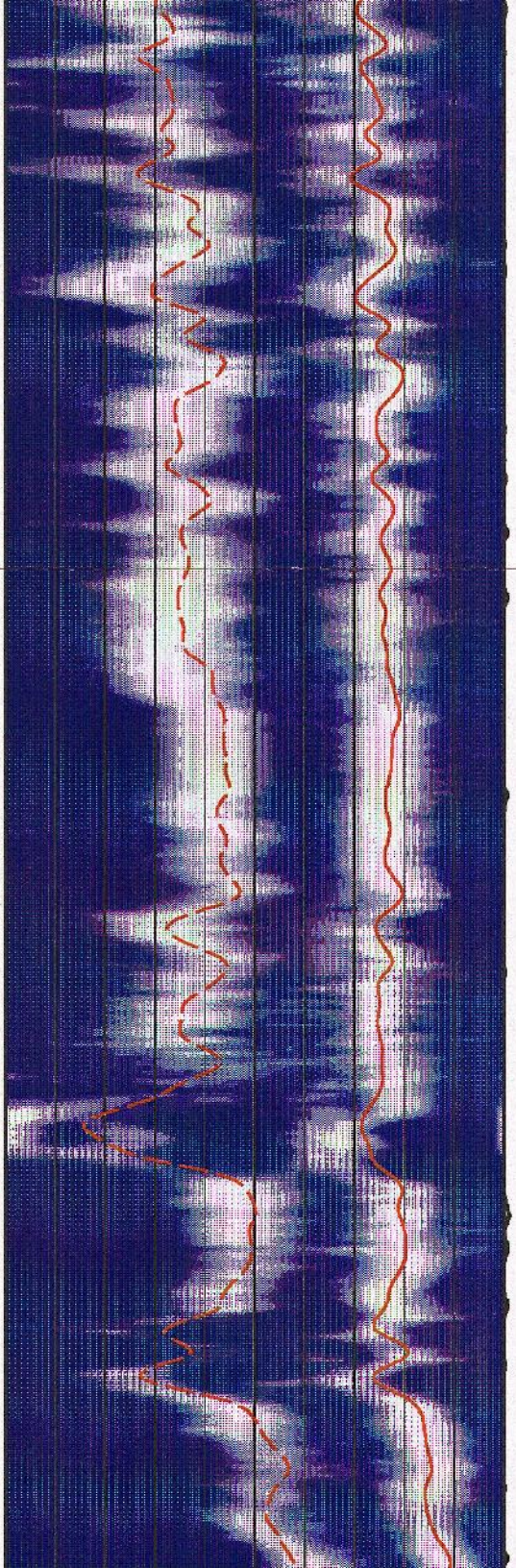
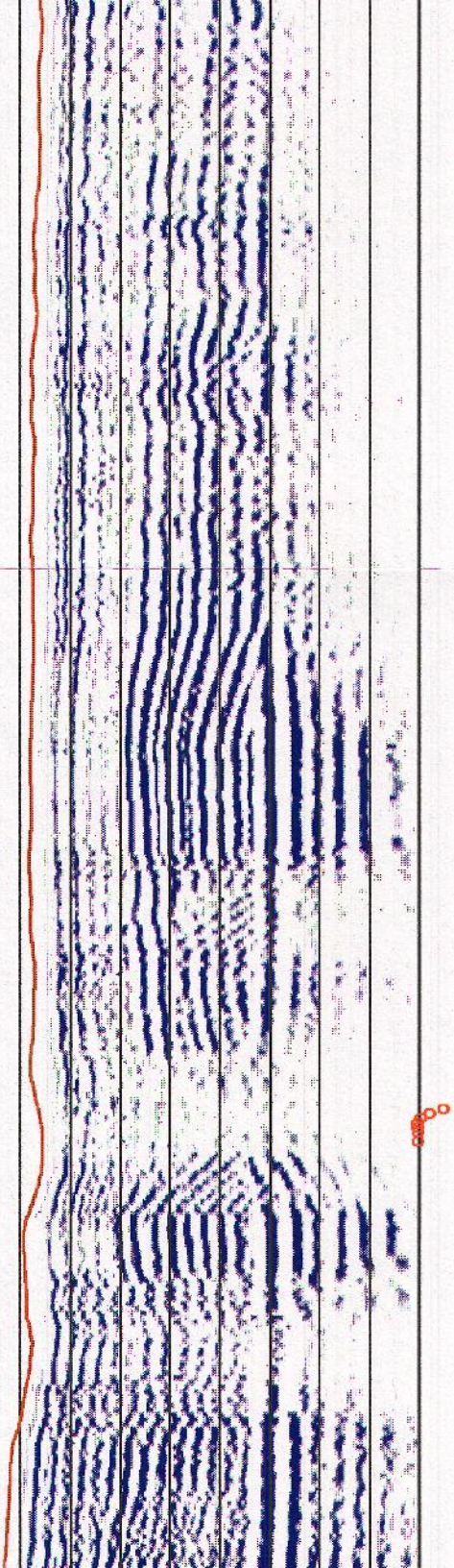
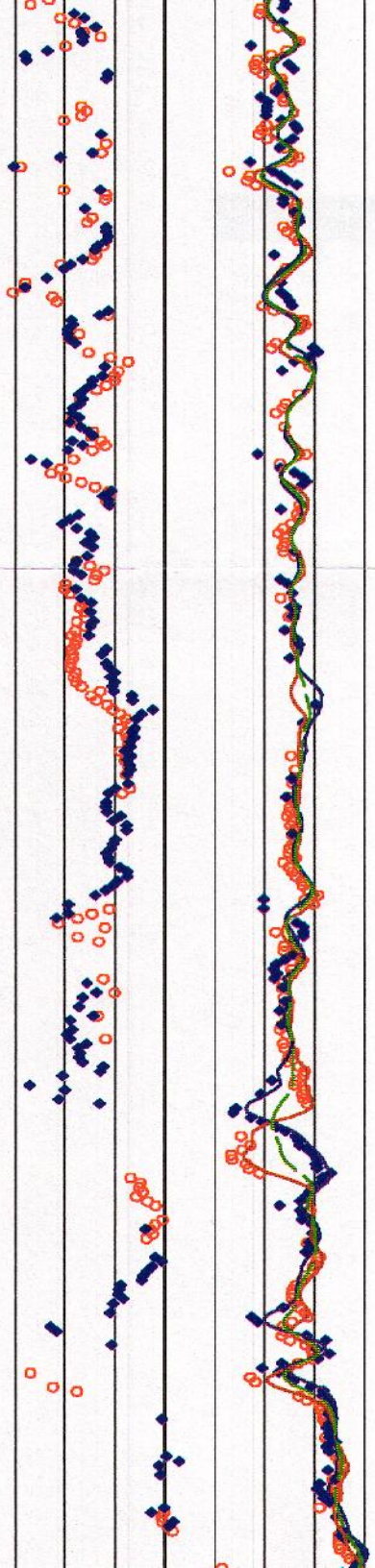




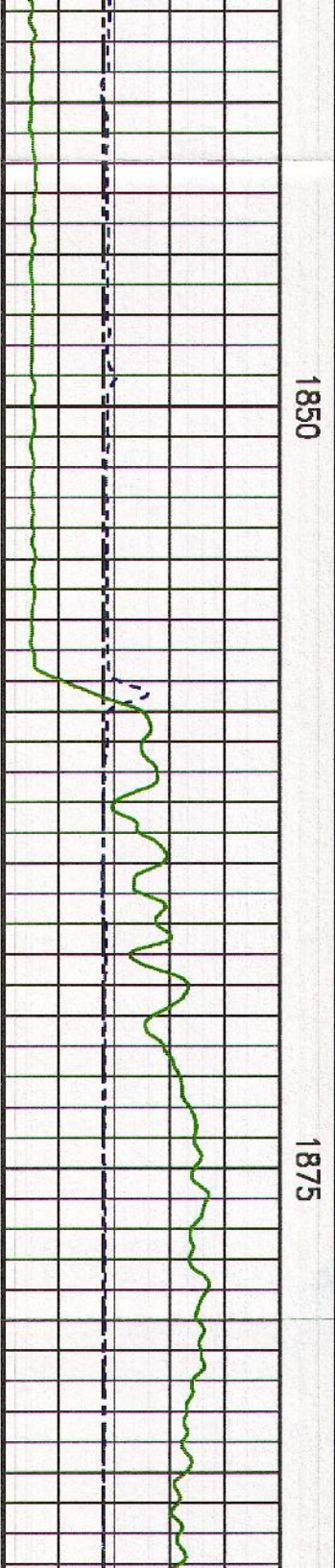
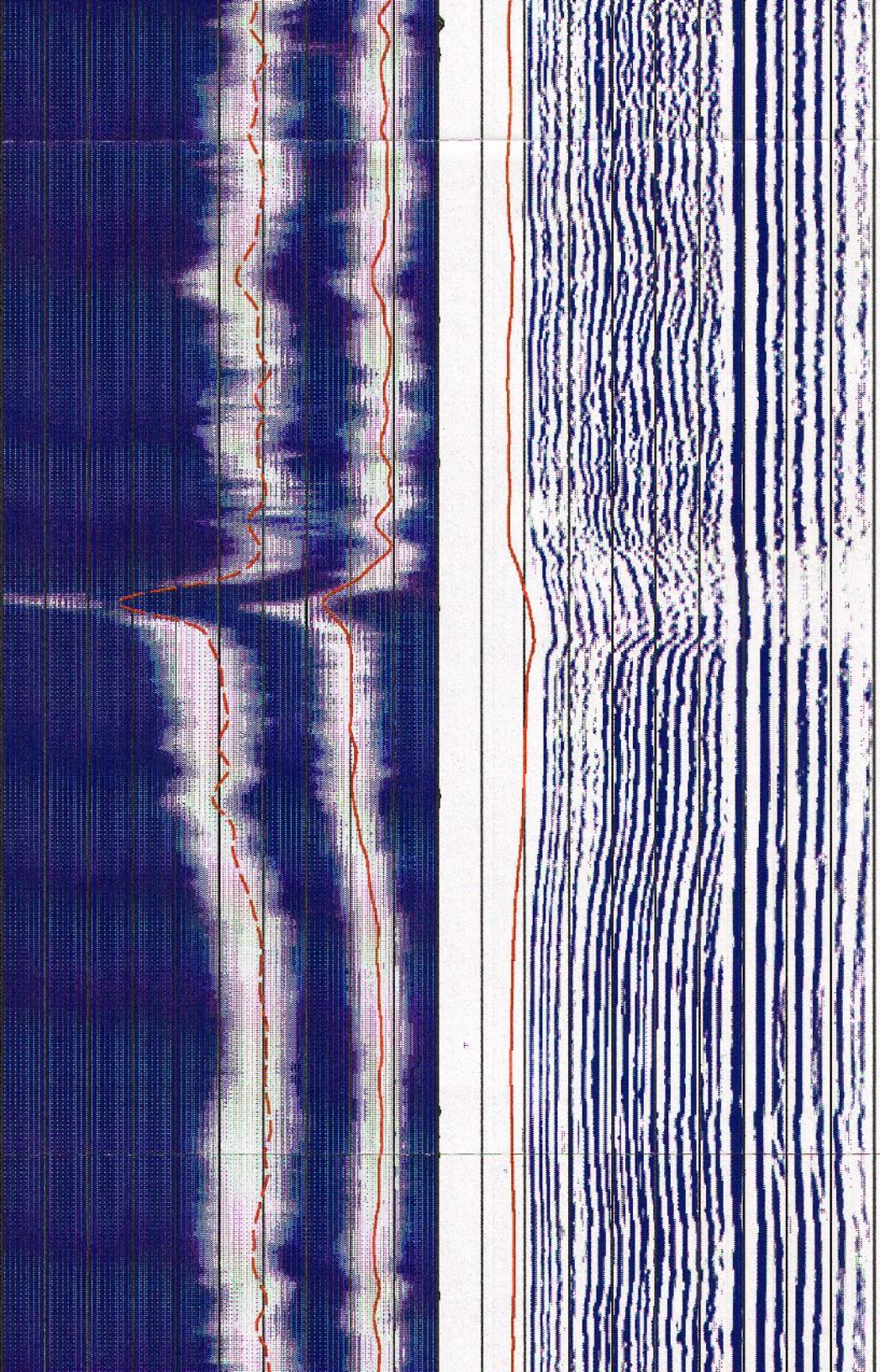
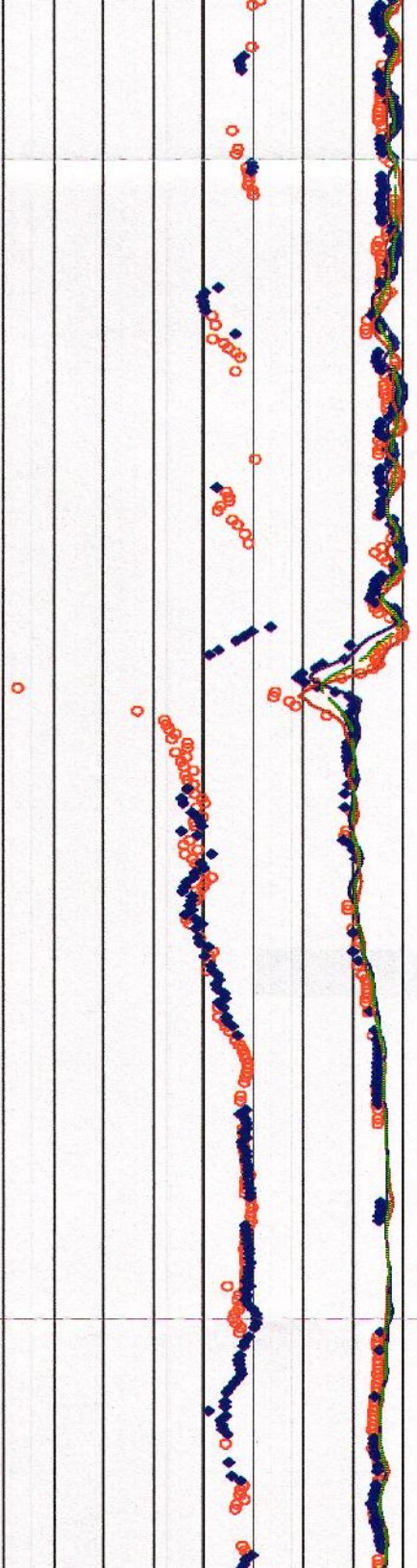
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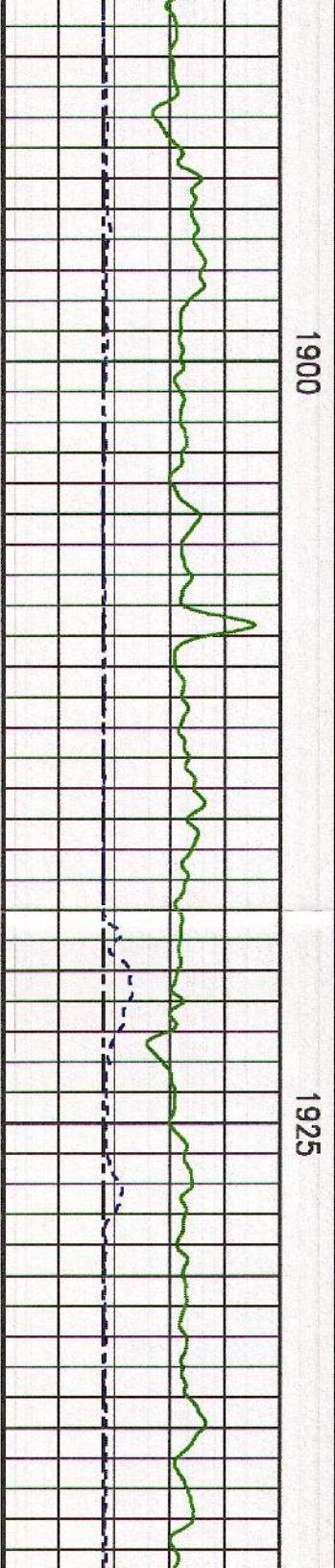
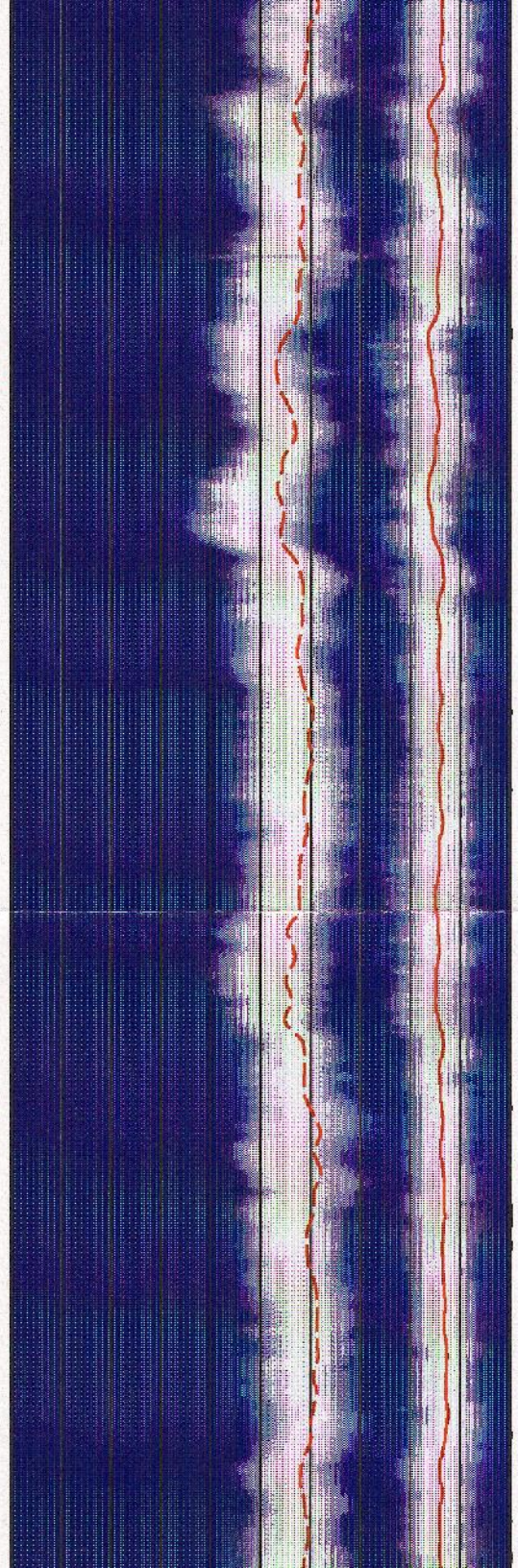
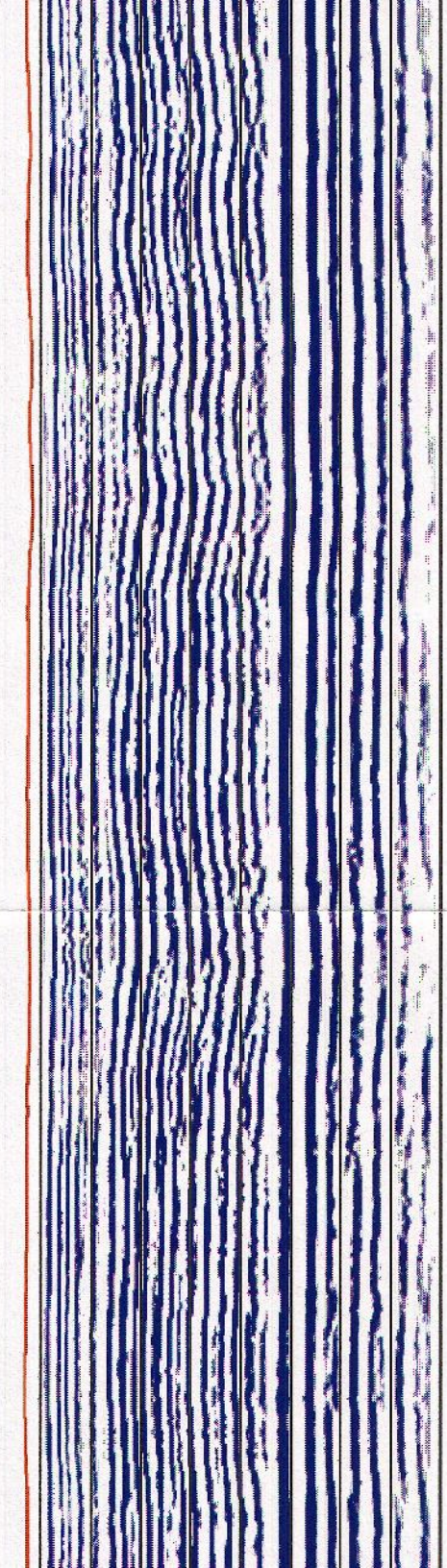
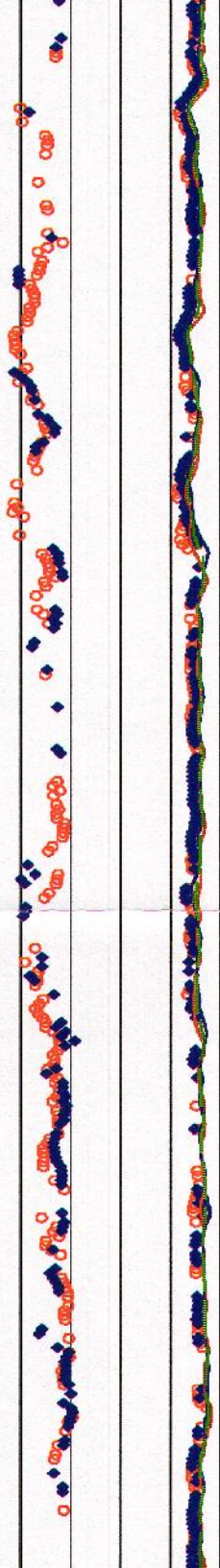




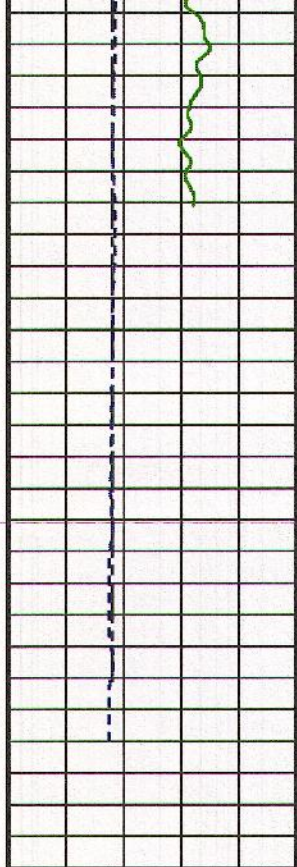




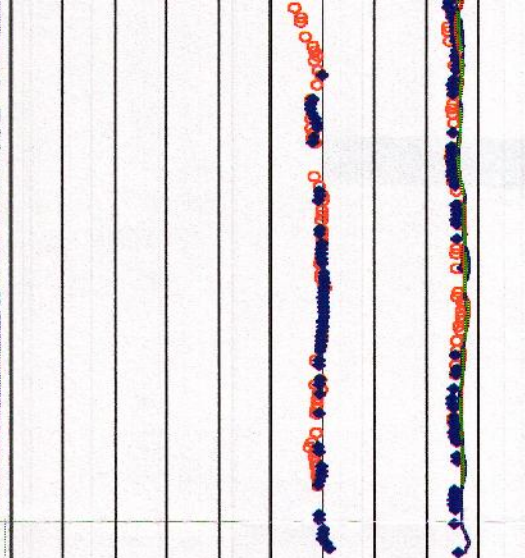
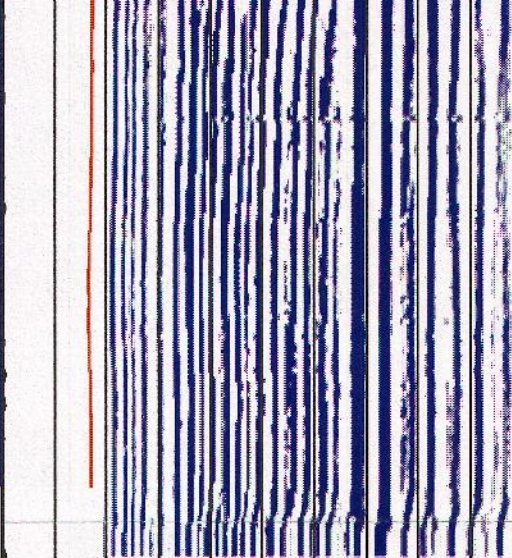
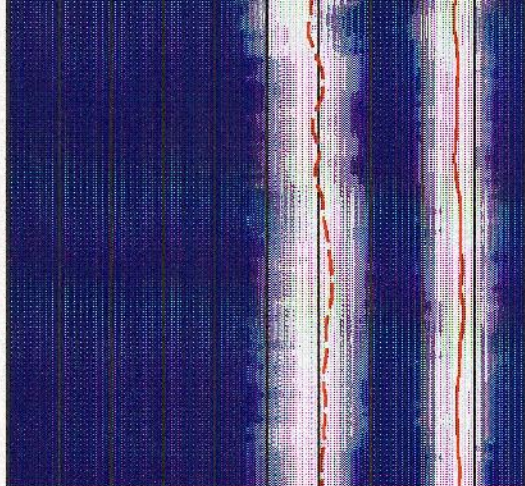








1950



Tool Sticking

125 Bit Size 375  
(mm)  
125 Caliper 375  
(mm)  
0 Gamma Ray 150  
(gAPI)

METERS

600 Shear Slowness 100  
(us/m)

600 Compressional Slowness 100  
(us/m)

600 Rcvr Correlation Image 100  
((us/m))  
0 2000

0 Diff. Tension 2000  
(lbf)

0 TT QC Compressional 3400

0 Monopole Wavetrace (1) 3400  
(us)  
1 4

600 Rcvr. Compressional 100  
(us/m)

600 Xmtr Compressional 100  
(us/m)

600 Monopole Compressional 100  
(us/m)

000 Rcv Correlation Picks 100



### Dipole Quality Control Plot

## CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 18:18:32 2009	BIT SIZE
F1:CALX	CALX	Nov 25 13:16:58 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:DTC	DTC	Nov 30 10:23:24 2009	COMPRESSIONAL WAVE SLOWNESS
F1:DTS	DTS	Nov 30 10:23:39 2009	SHEAR WAVE SLOWNESS
F1:GR	GR	Nov 25 18:18:32 2009	GAMMA RAY
F1:TEN	TEN	Nov 25 18:18:32 2009	DIFFERENTIAL TENSION
F1:TTS	TTS	Nov 30 10:24:08 2009	TRAVEL TIME ESTIMATE FAR MONOPOLE SHEAR
F1:TXXWV06	TXXWV10	Nov 25 18:18:32 2009	X-X AXIS DIPOLE MULTIPLEX WAVEFORM

```

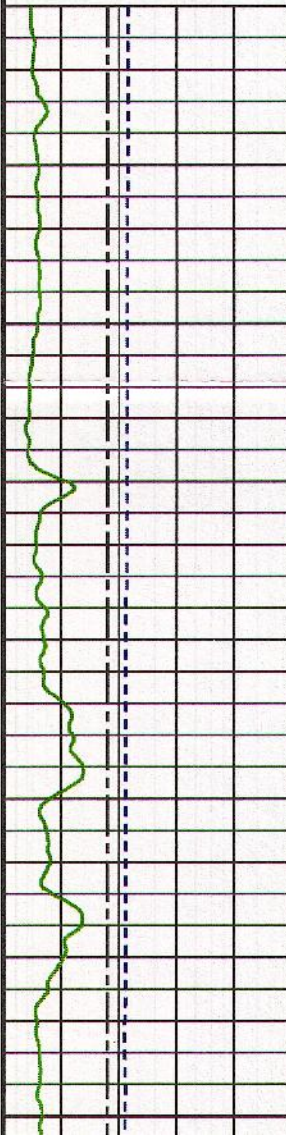
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User        : jianwei
Presentation : calsunsv3:/data/jianwei/210569_vulcan_xmac/xmac.dipole.pdf [1:240 Scale]
Plot Interval : 840 - 1966.72 Meters

Data File 1  : F1 : calsunsv3:/data/jianwei/210569_vulcan_xmac/slowness.txt
Created On   : Nov 25 13:16:58 2009
Company      : VULCAN MINERALS INC.
Well        : VULCAN INVESTCAN RED BROOK #2
Field       : RED BROOK
File Interval : 774.878 - 1966.72 Meters
Oct         : ku833k

```

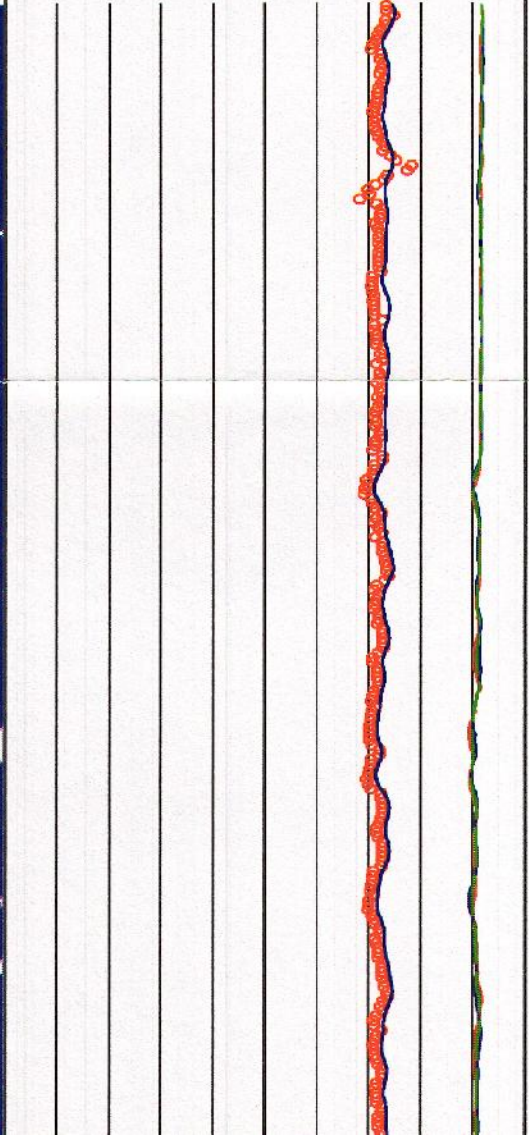
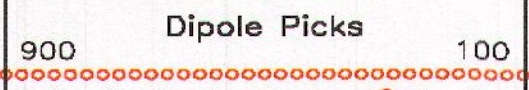
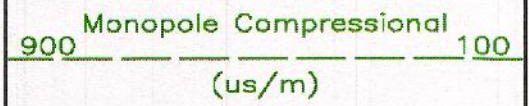
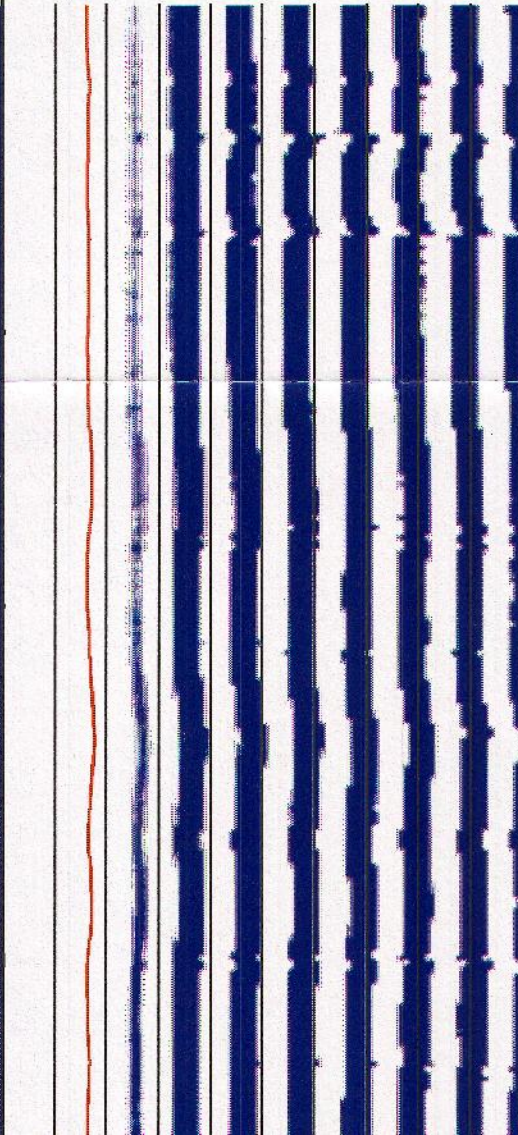
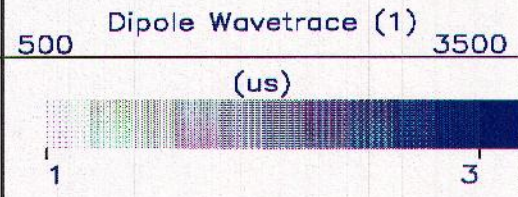
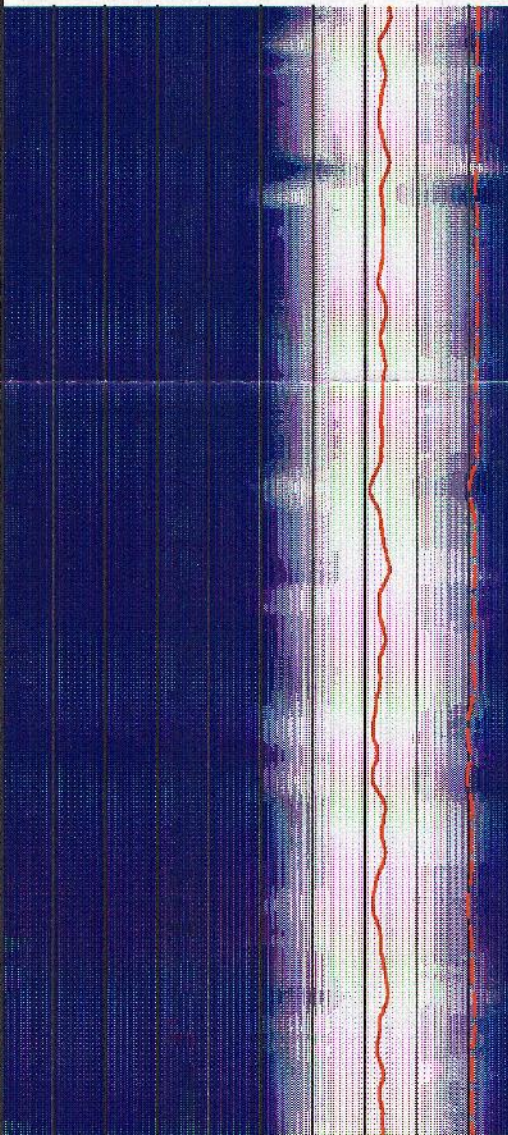
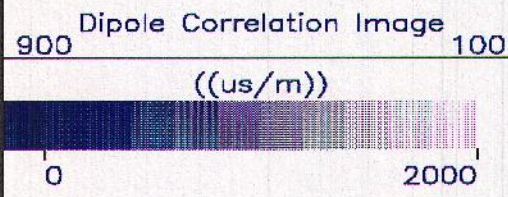
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Bit Size 125 ——— 375 (mm)		Shear Slowness 900 ————— 100 (us/m)	Diff. Tension 0 ————— 2000 (lbf)	Dipole Shear 900 ————— 100 (us/m)
Caliper 125 ——— 375 (mm)		Compressional Slowness 900 - - - - - 100 (us/m)	TT QC Shear 500 ————— 3500	Rcvr Compressional 900 ————— 100 (us/m)
Gamma Ray 0 ————— 150 (API)				Xmtr Compressional 900 ————— 100 (us/m)



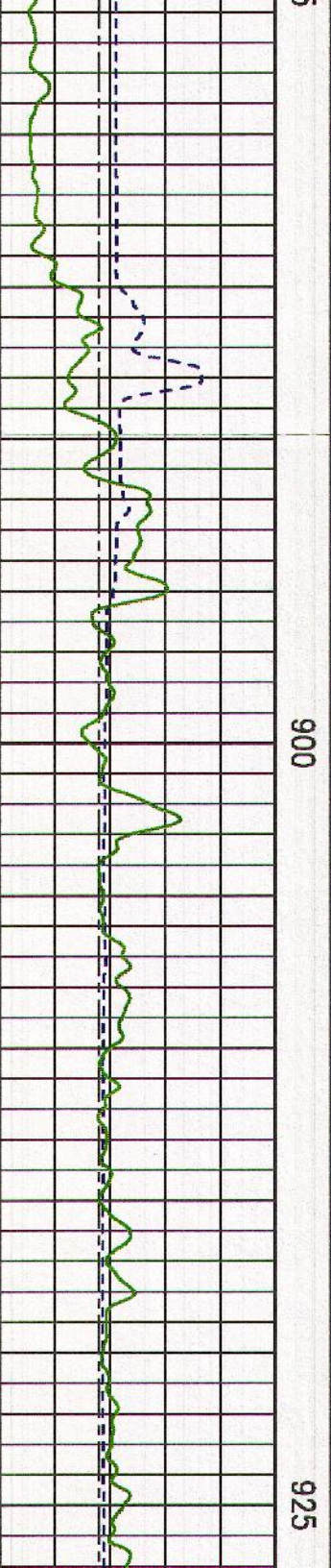
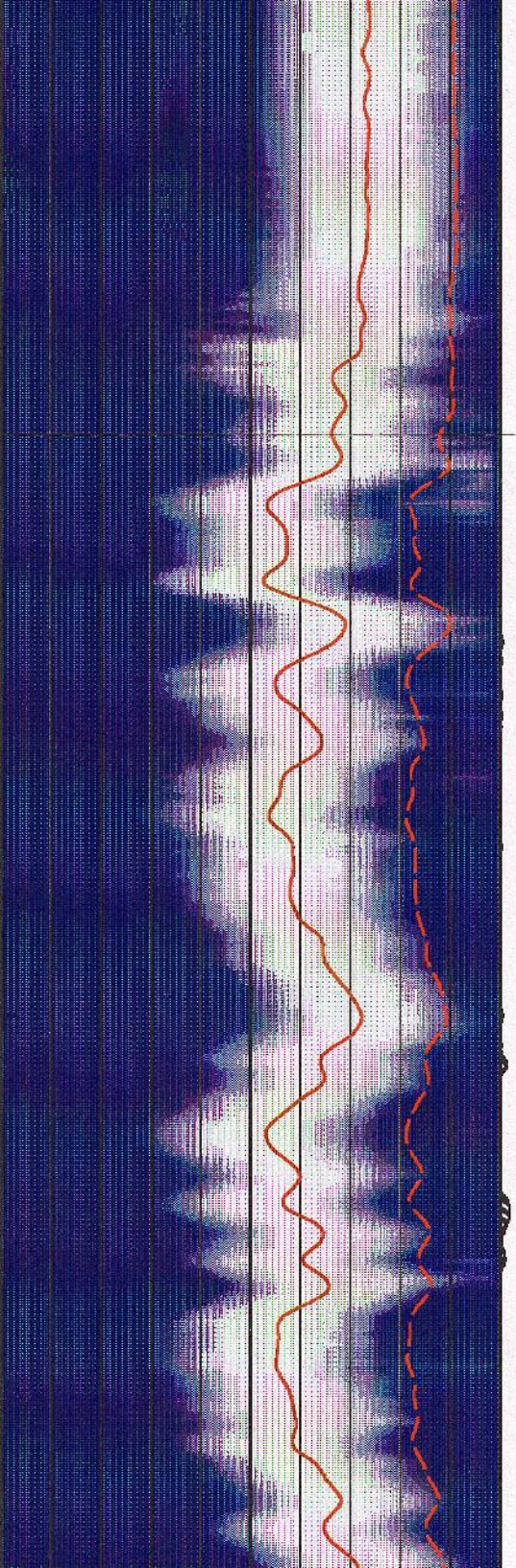
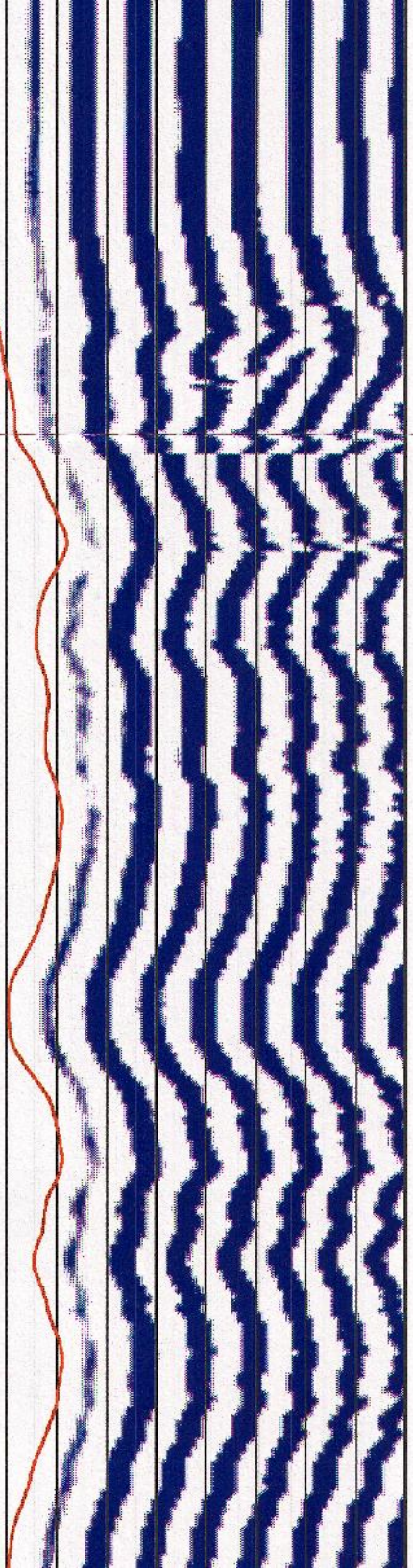
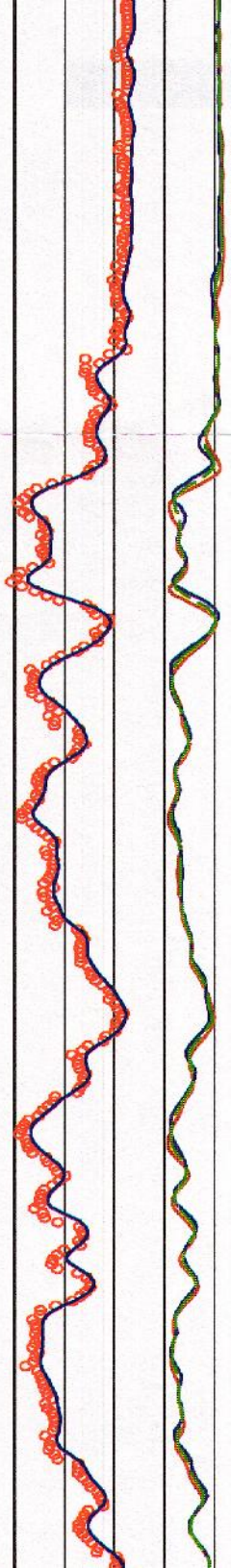


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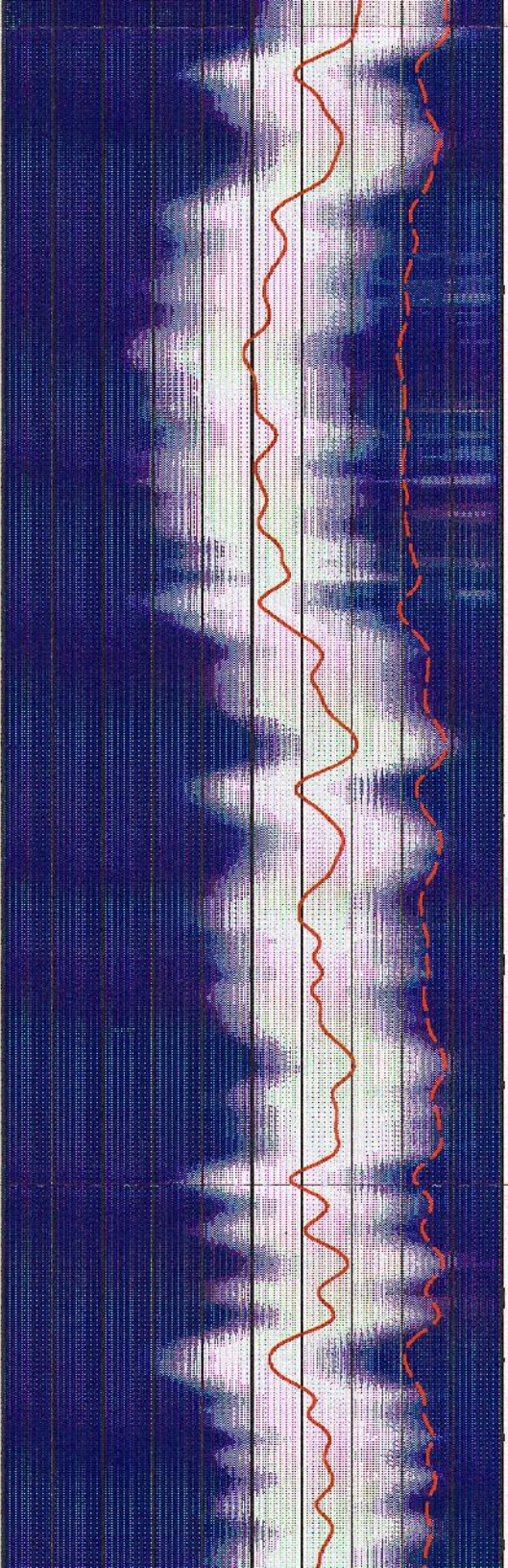
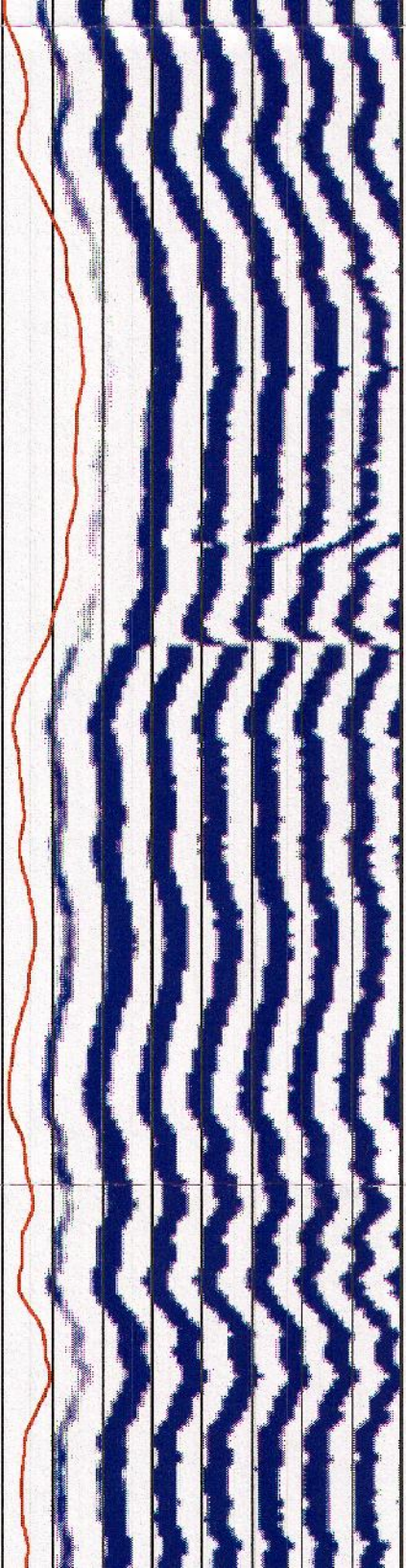
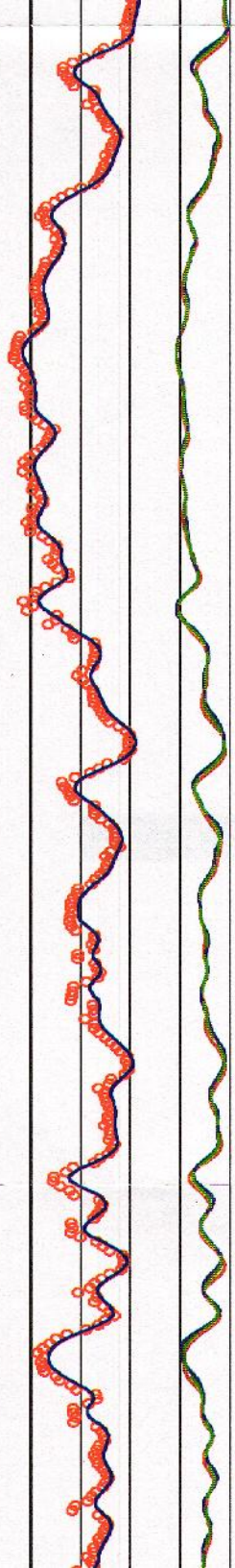
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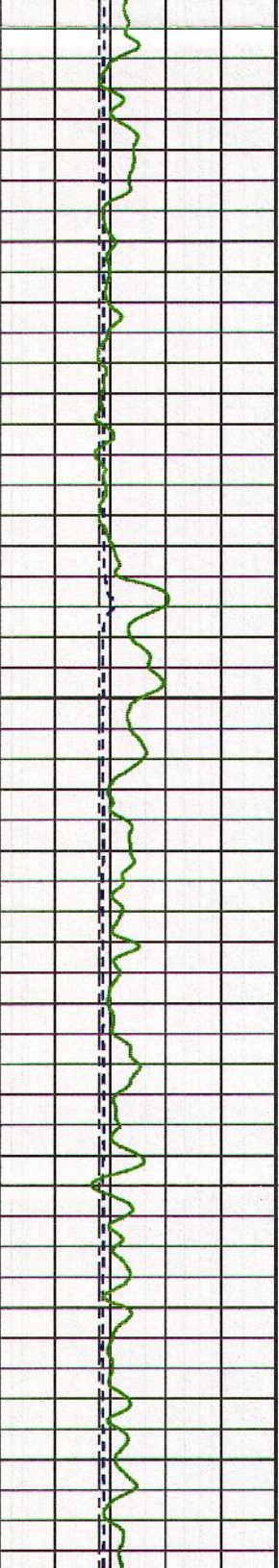




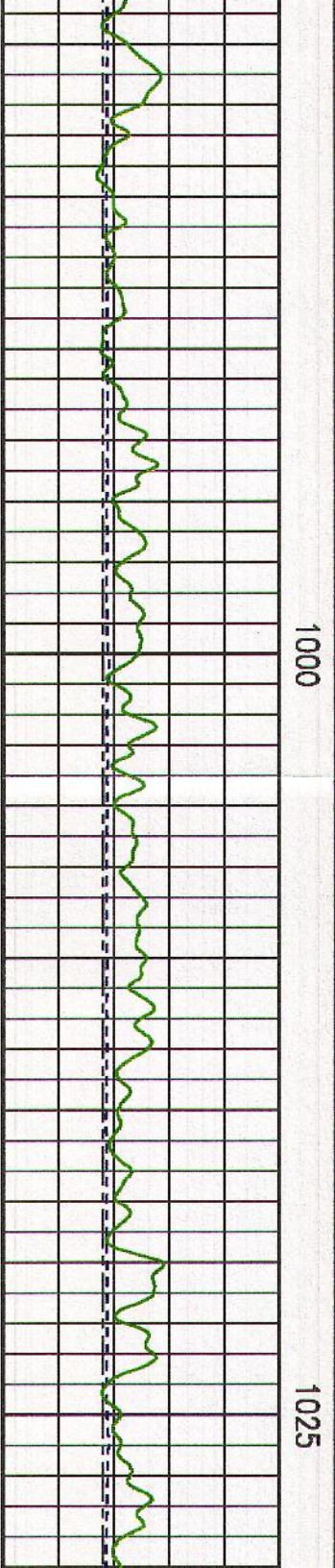
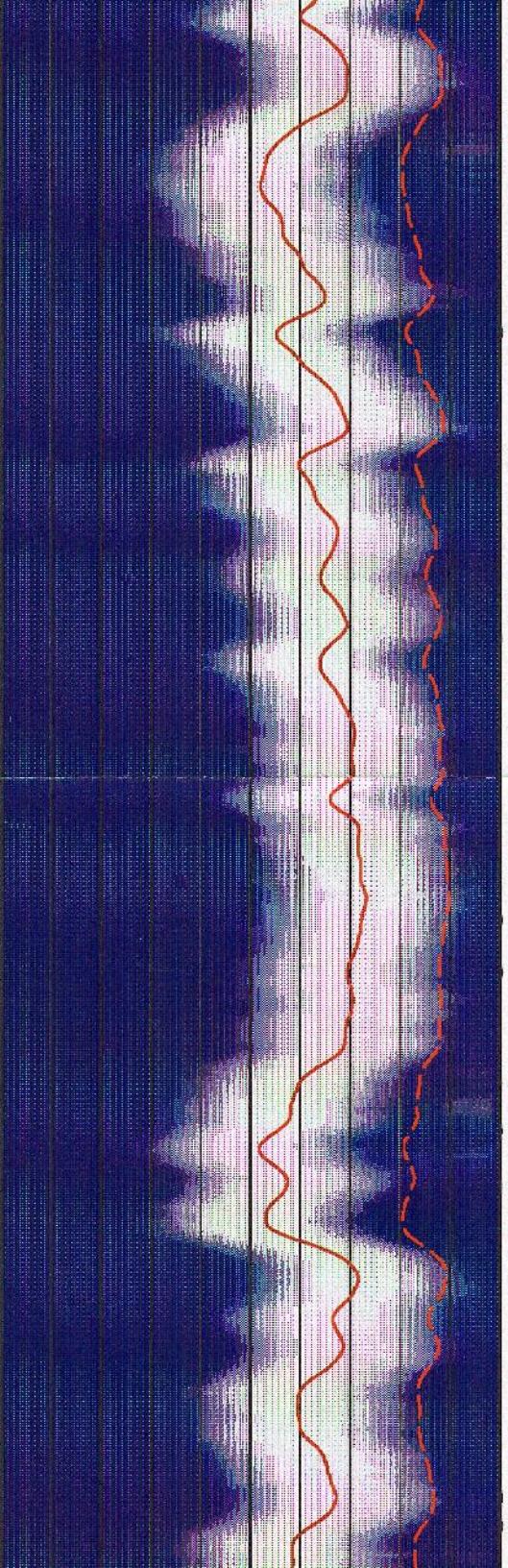
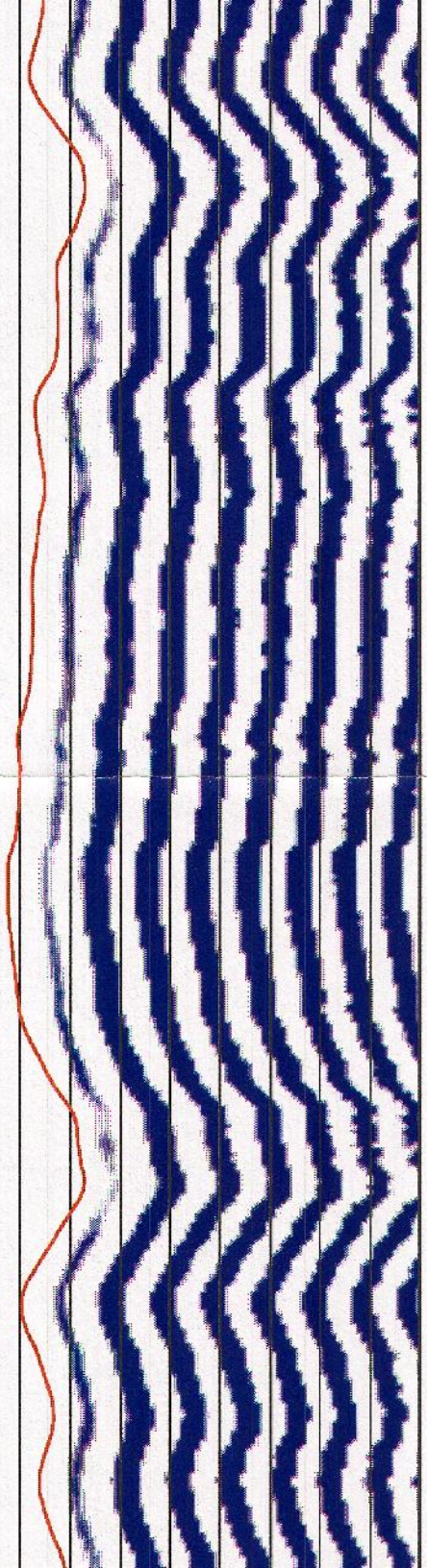
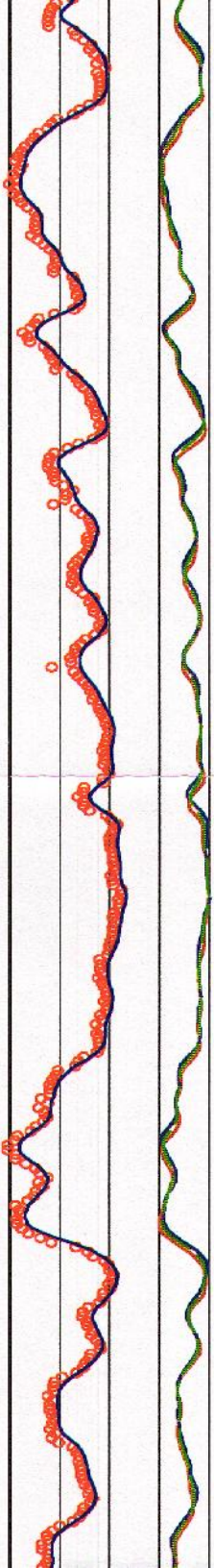


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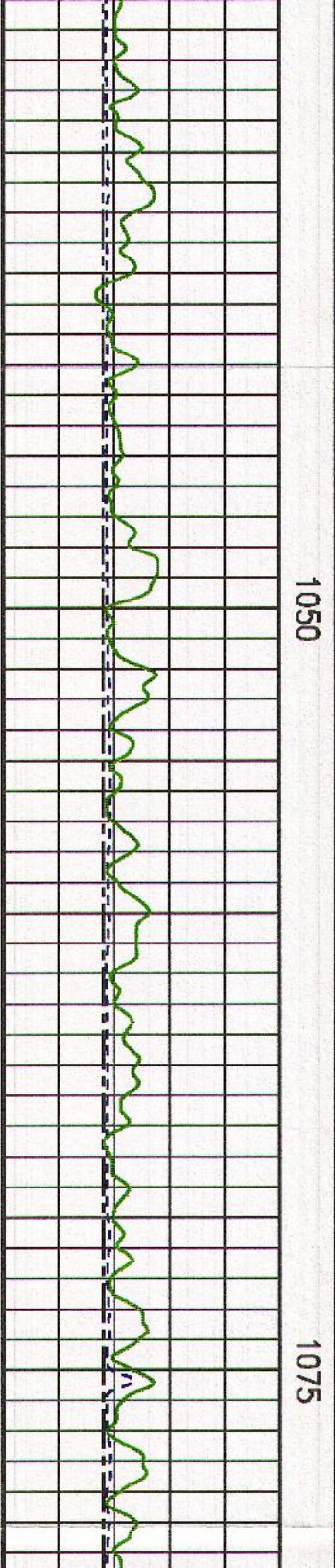
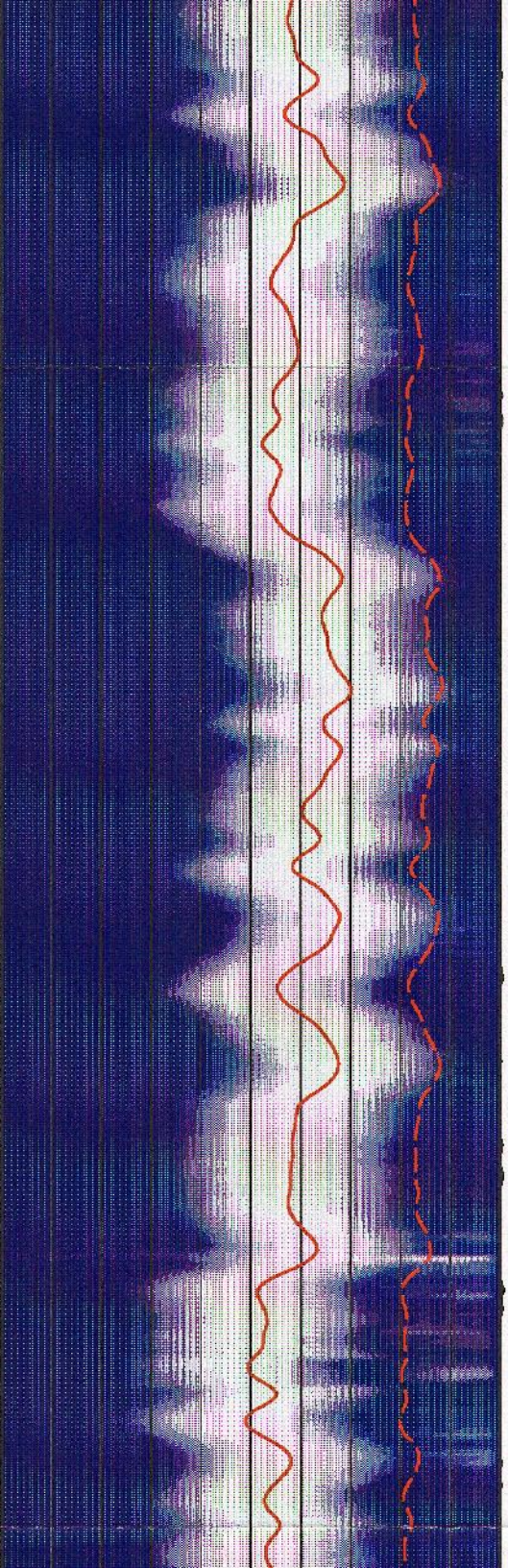
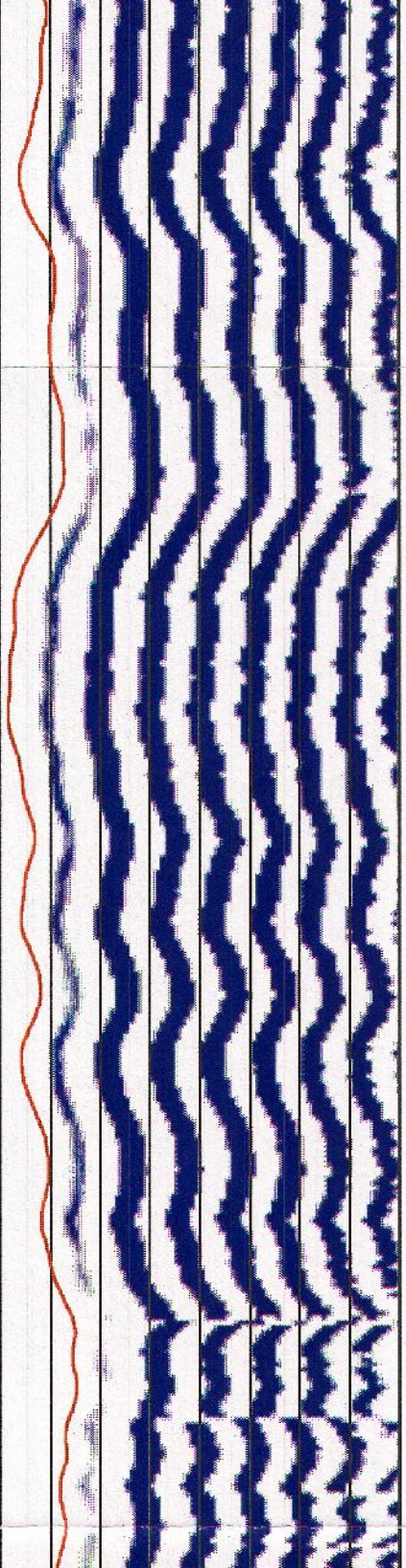
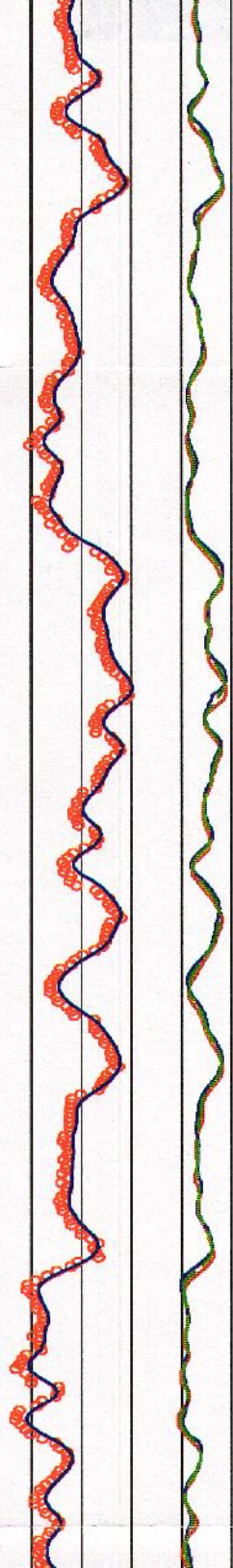
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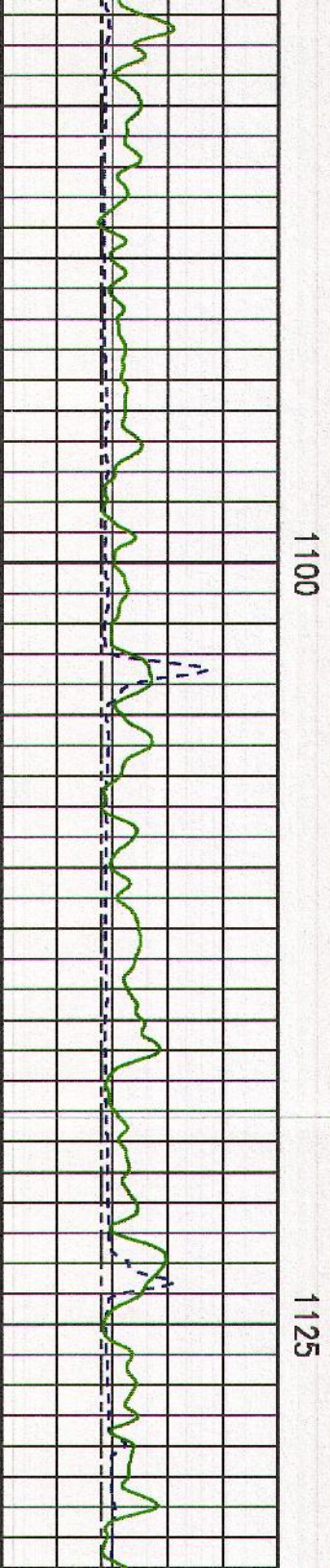
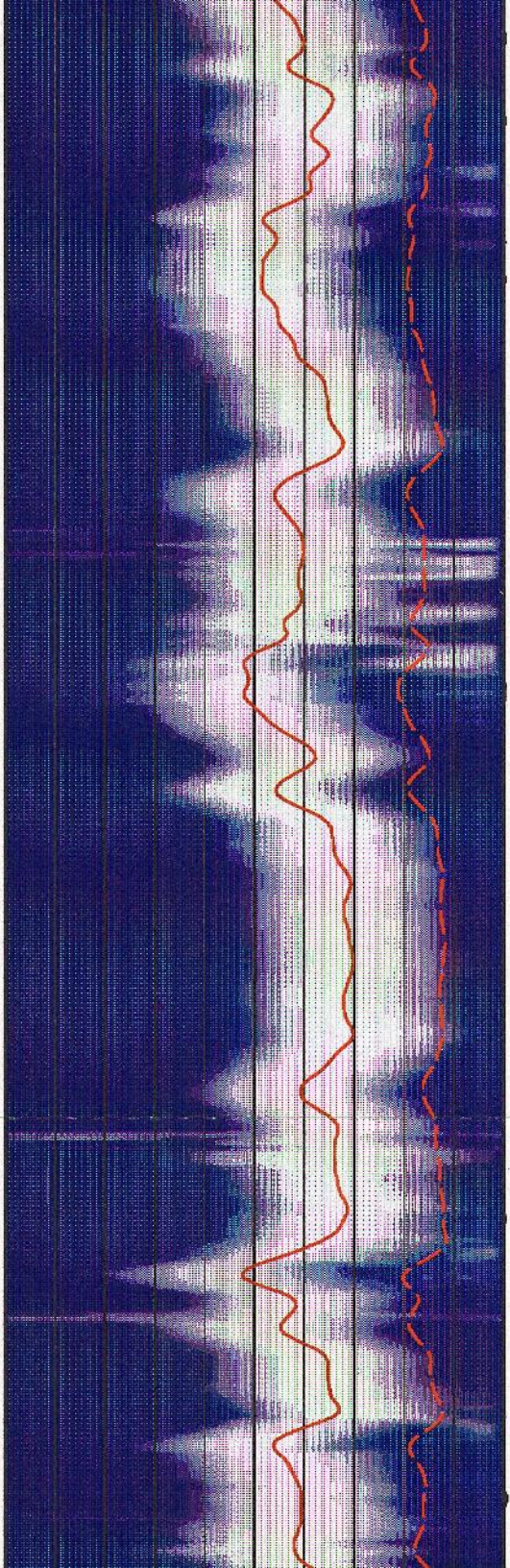
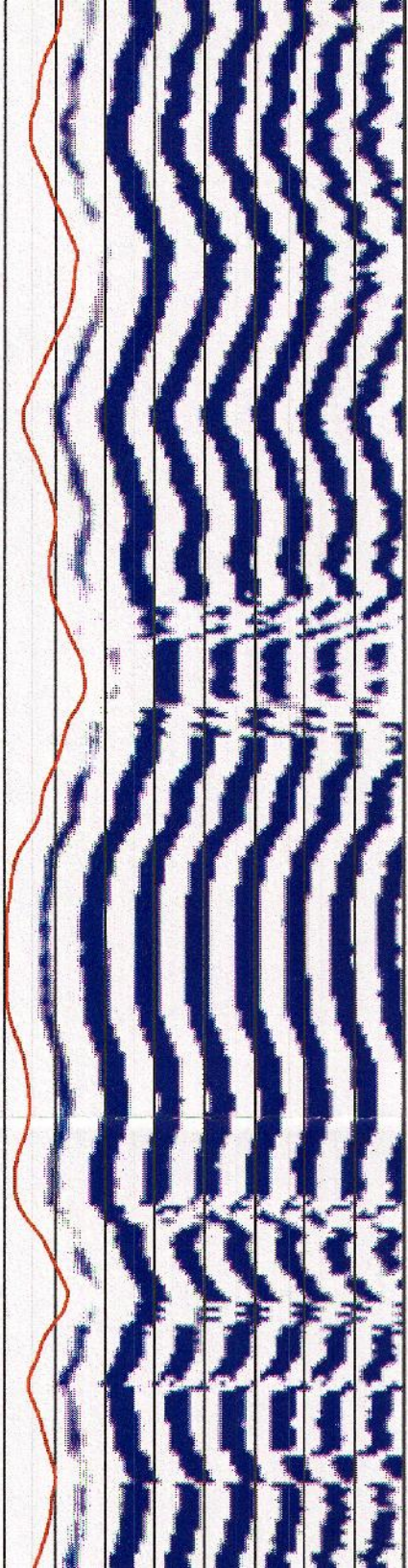




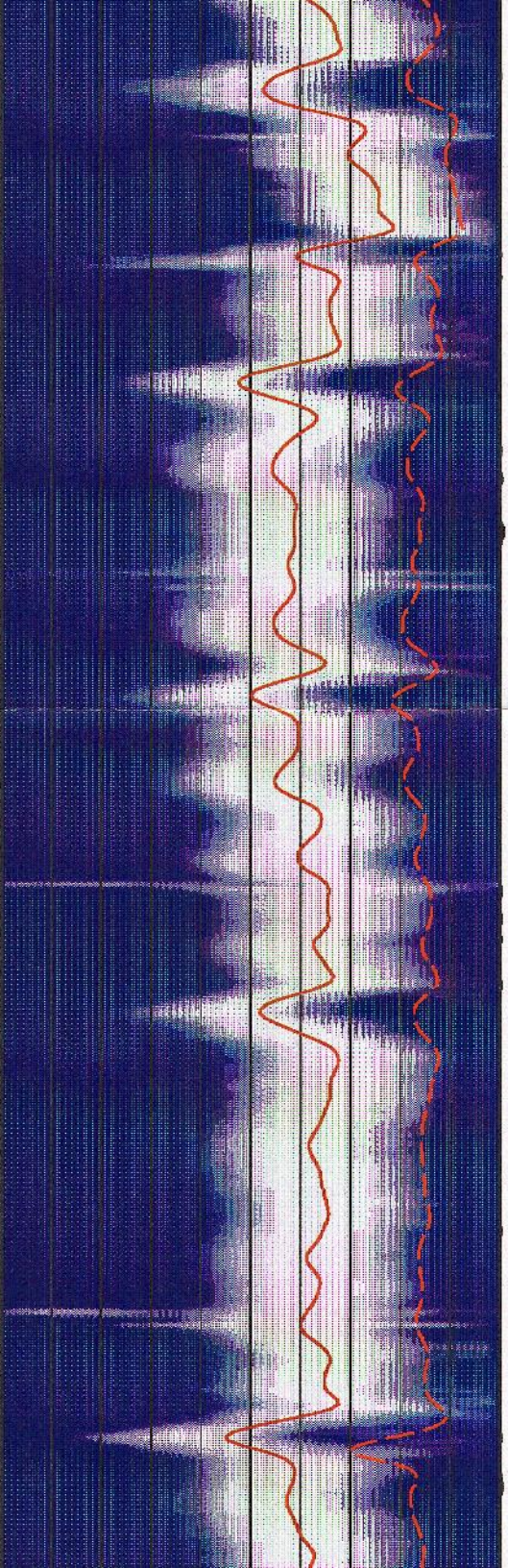
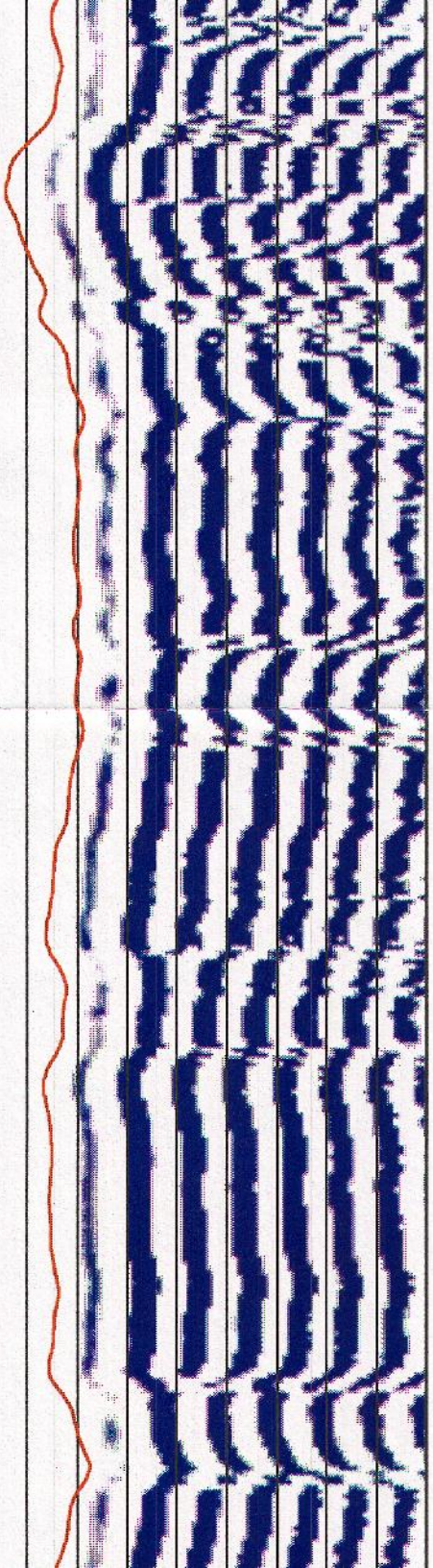






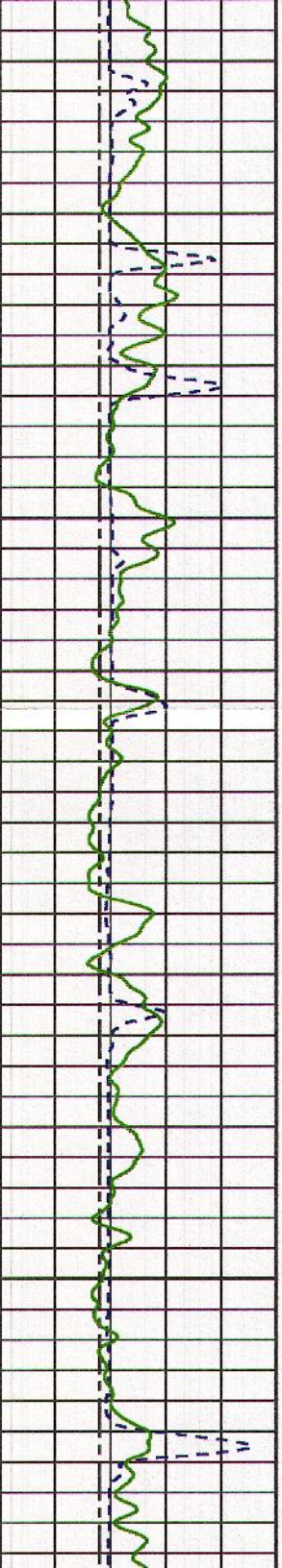




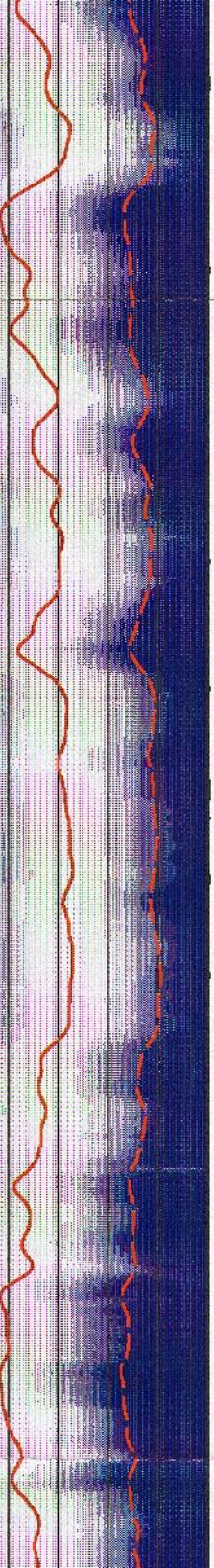
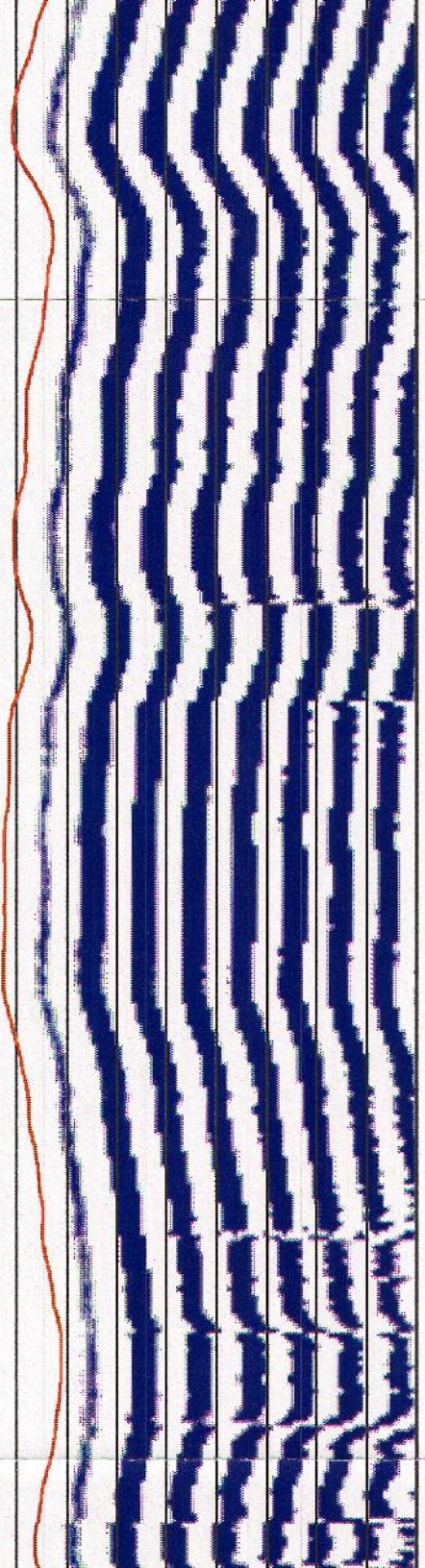
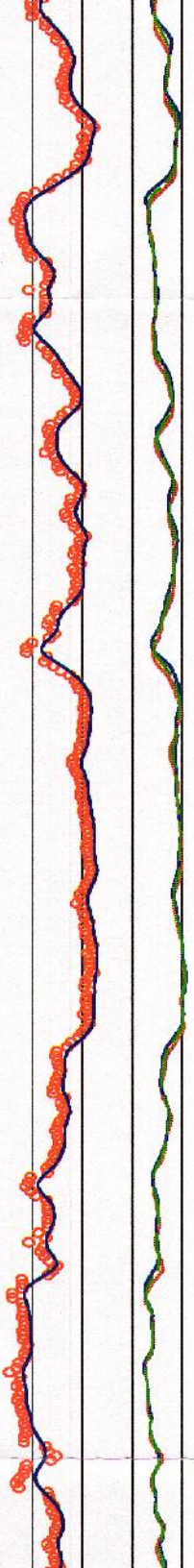


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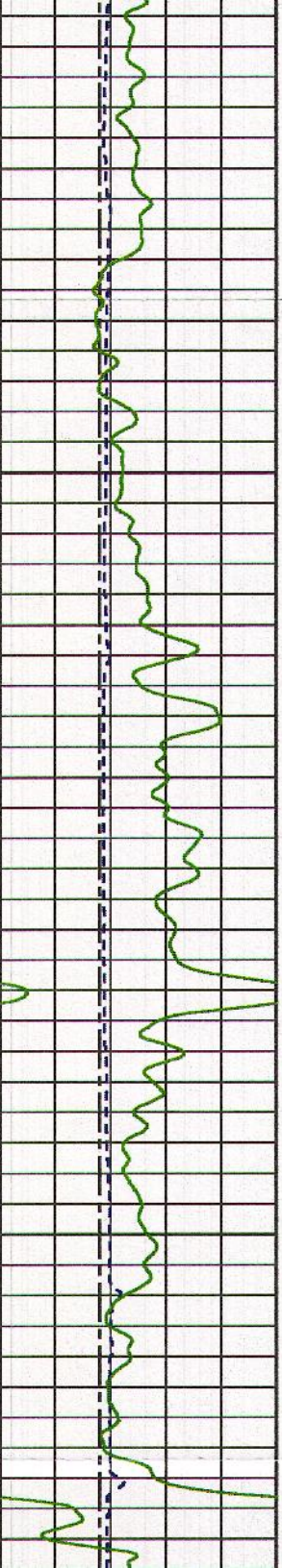




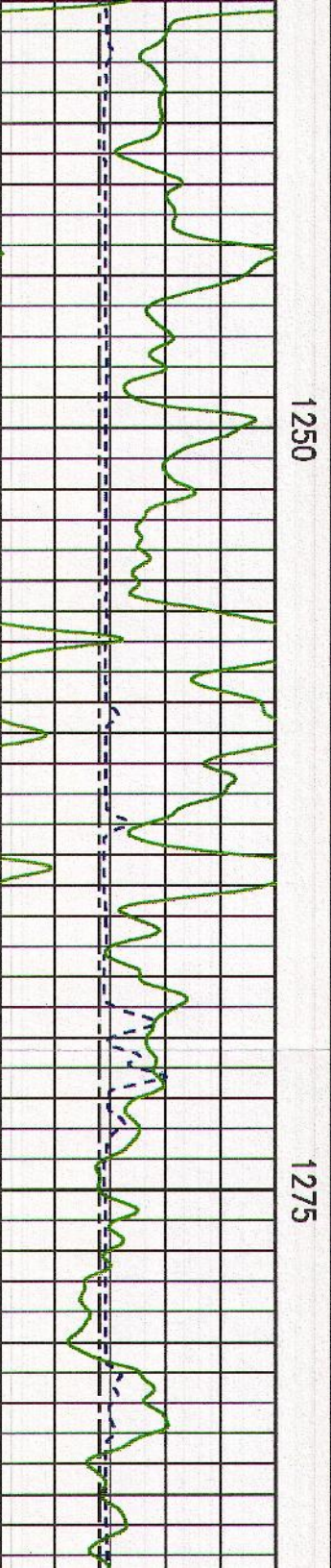
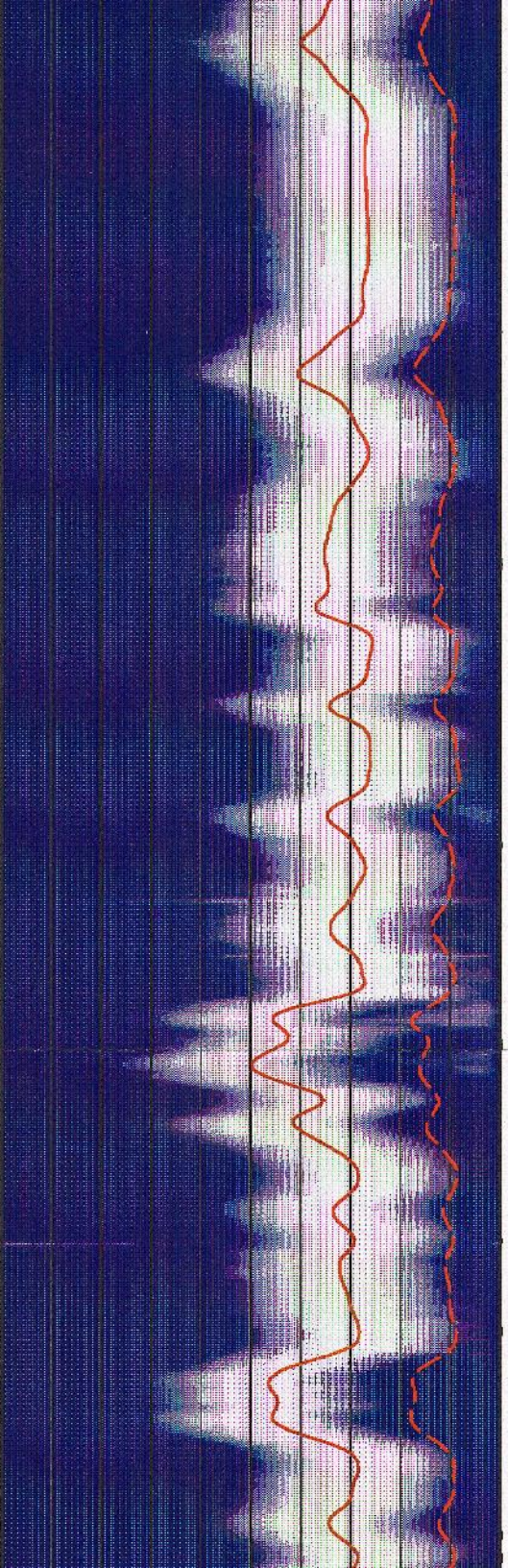
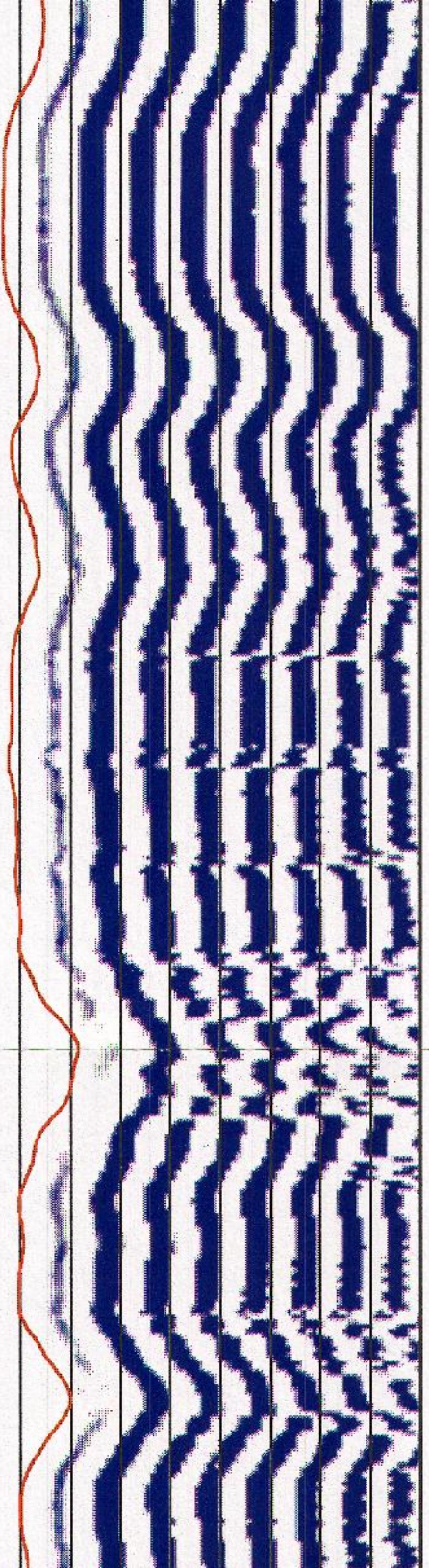


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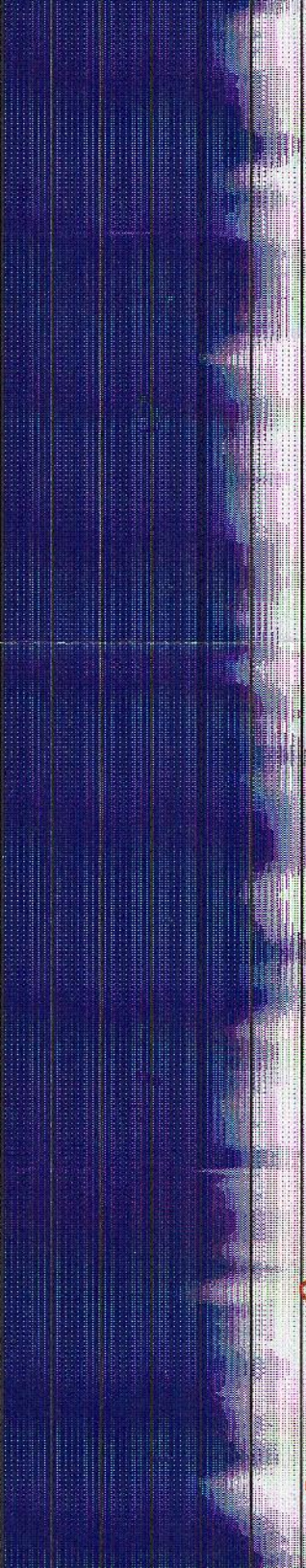
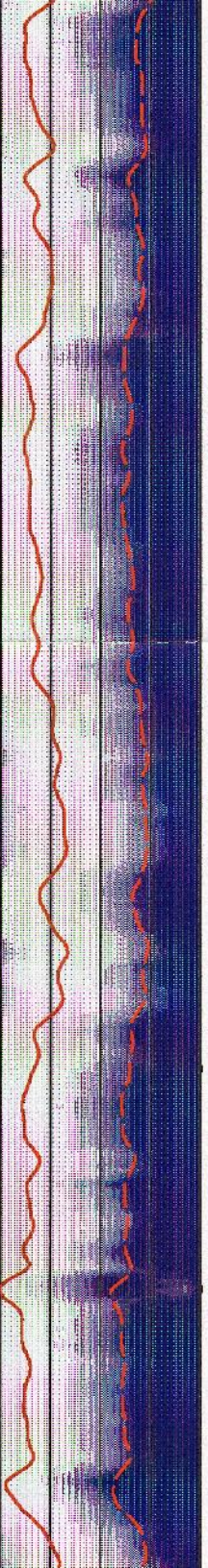
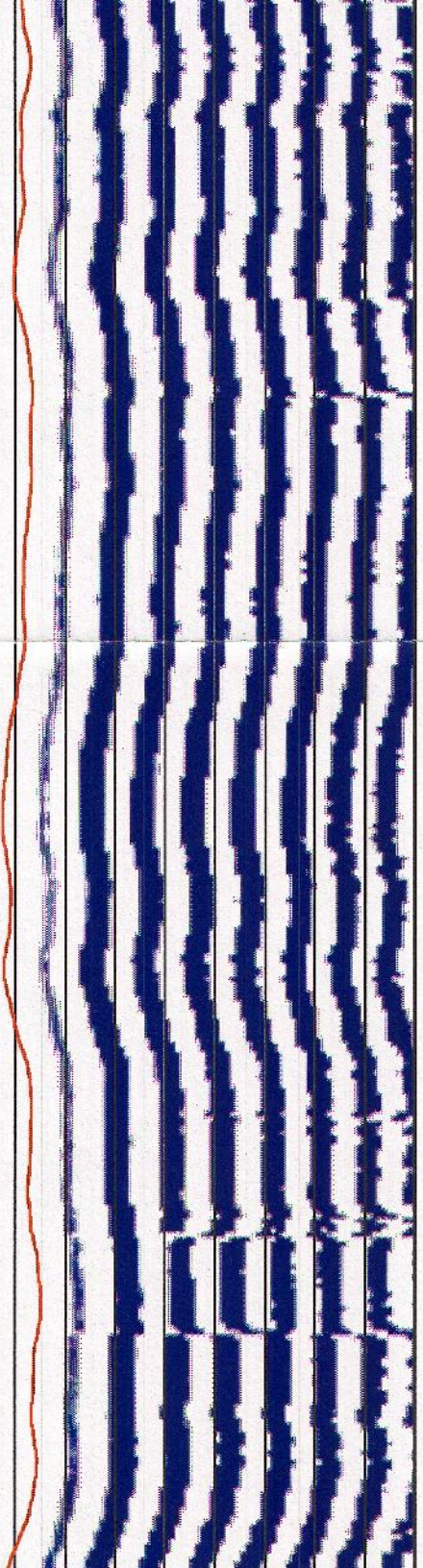
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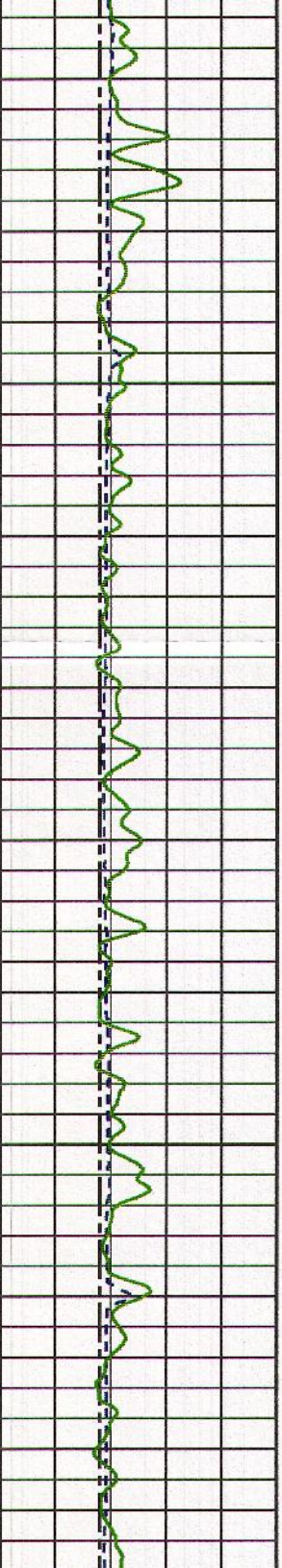




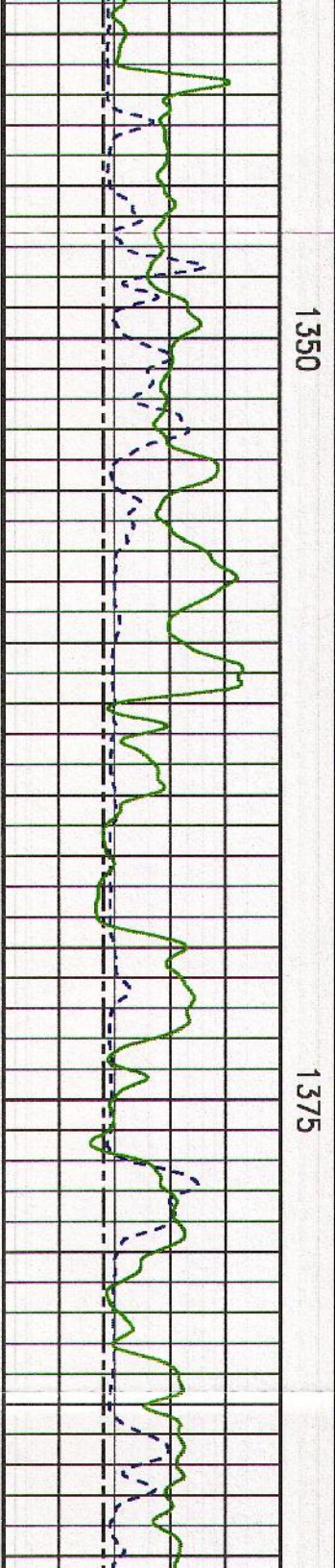
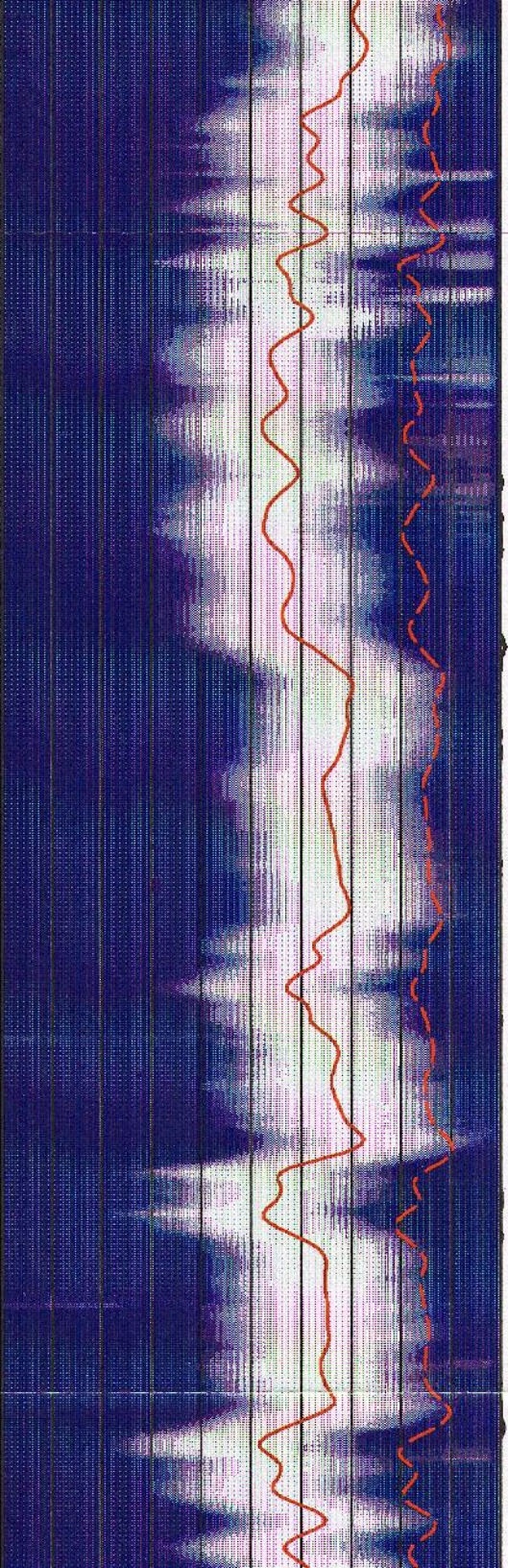
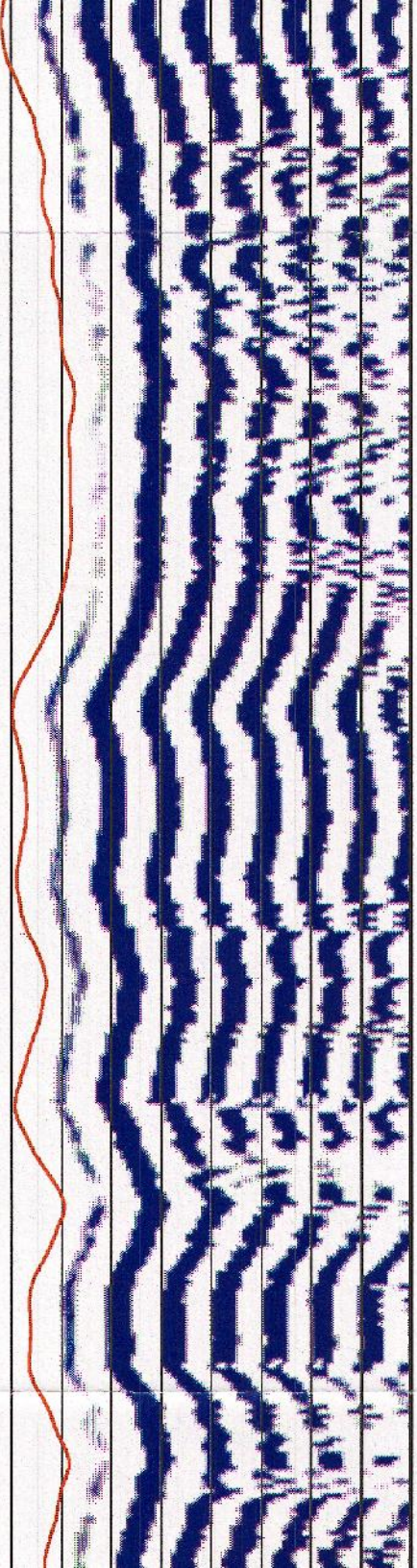
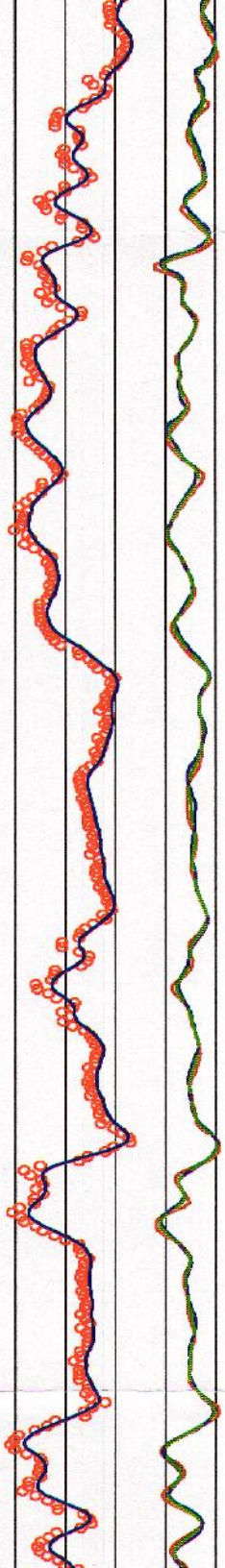


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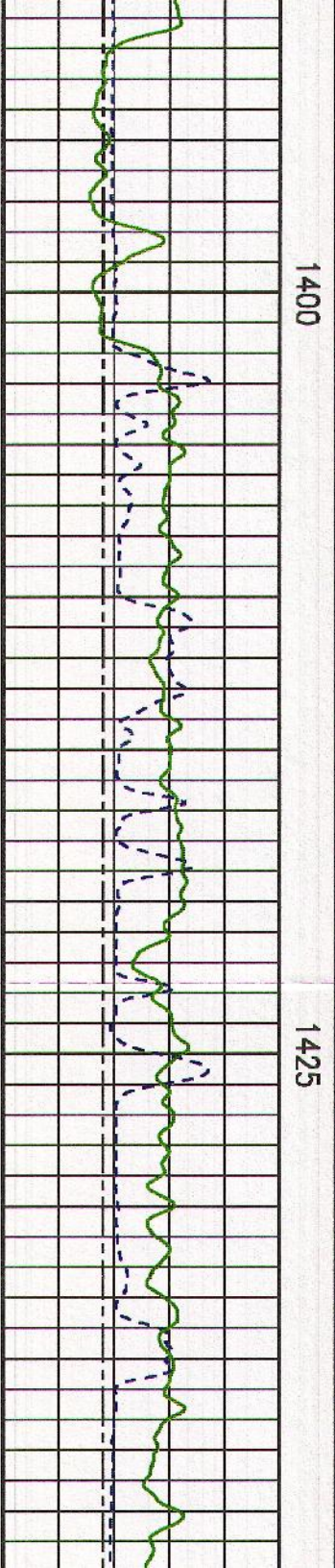
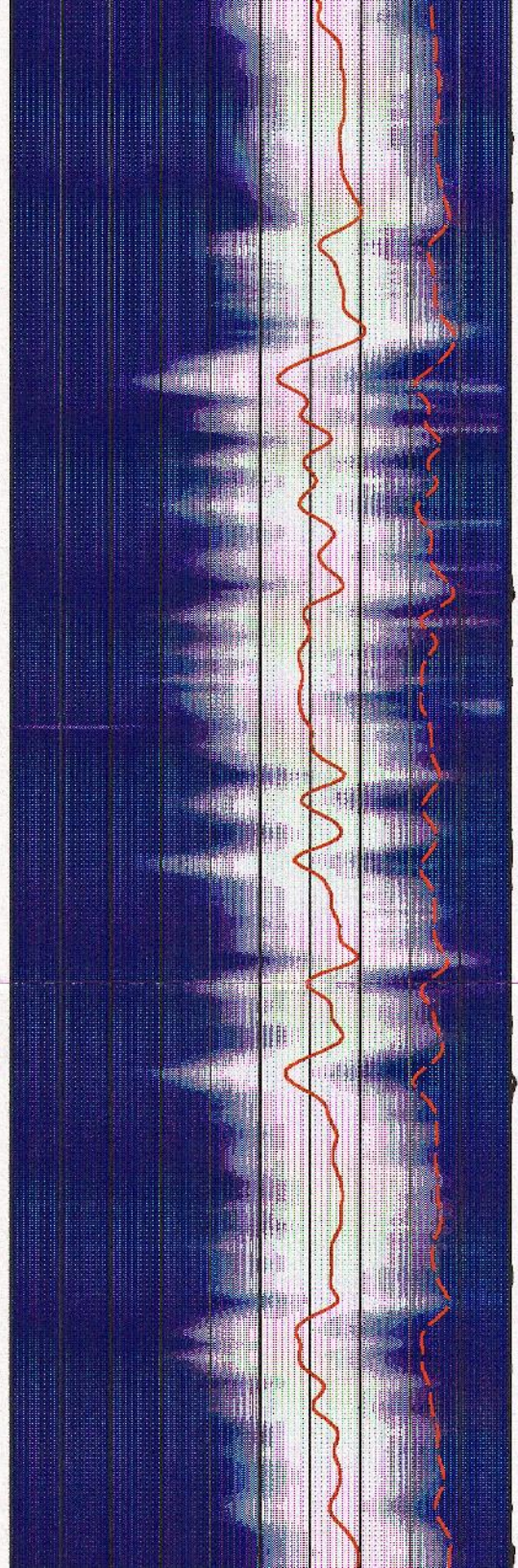
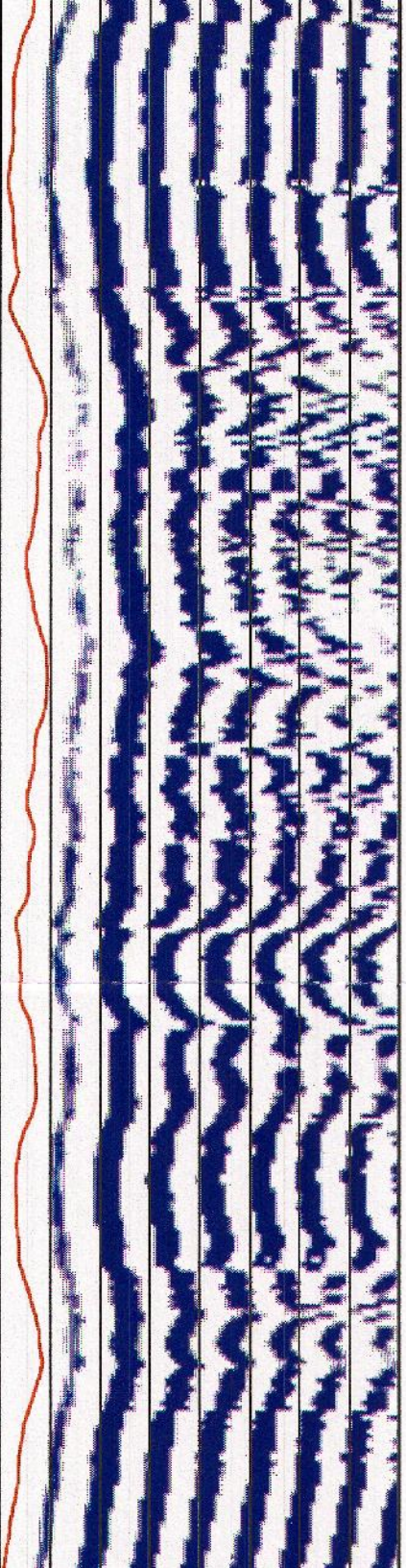
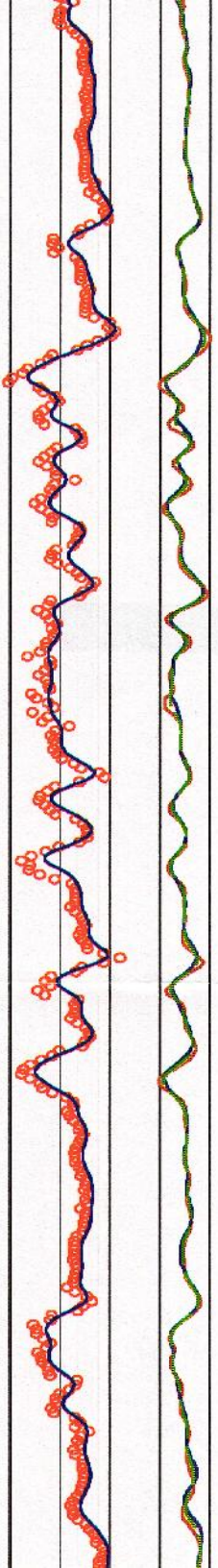
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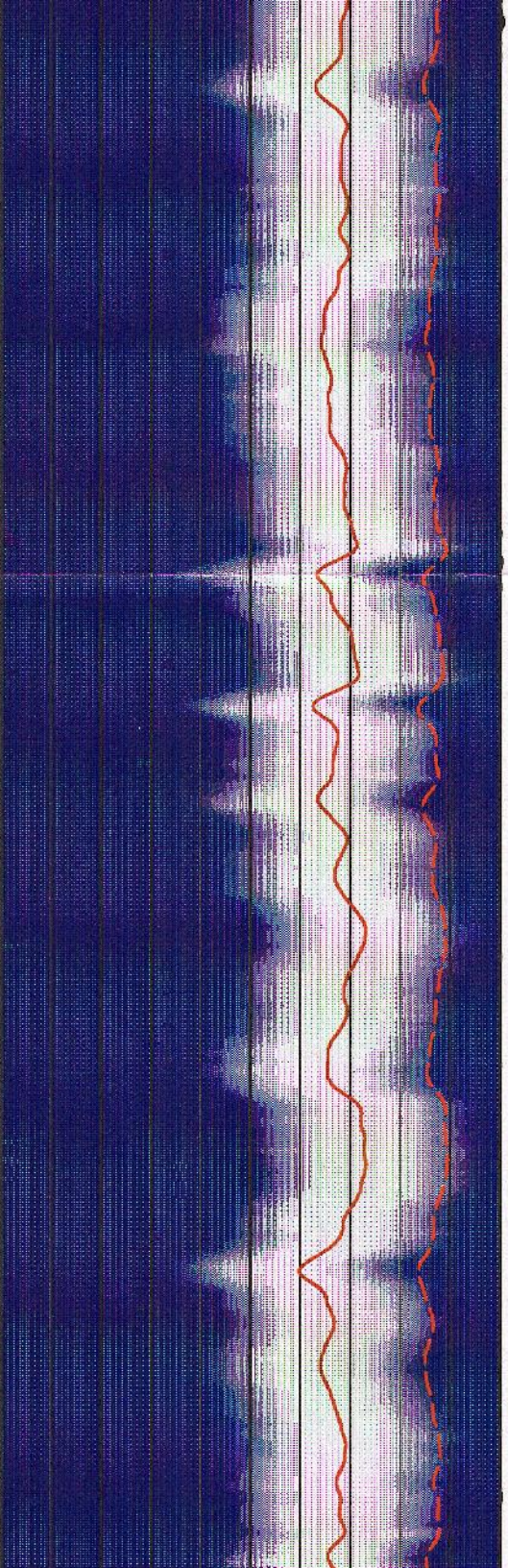
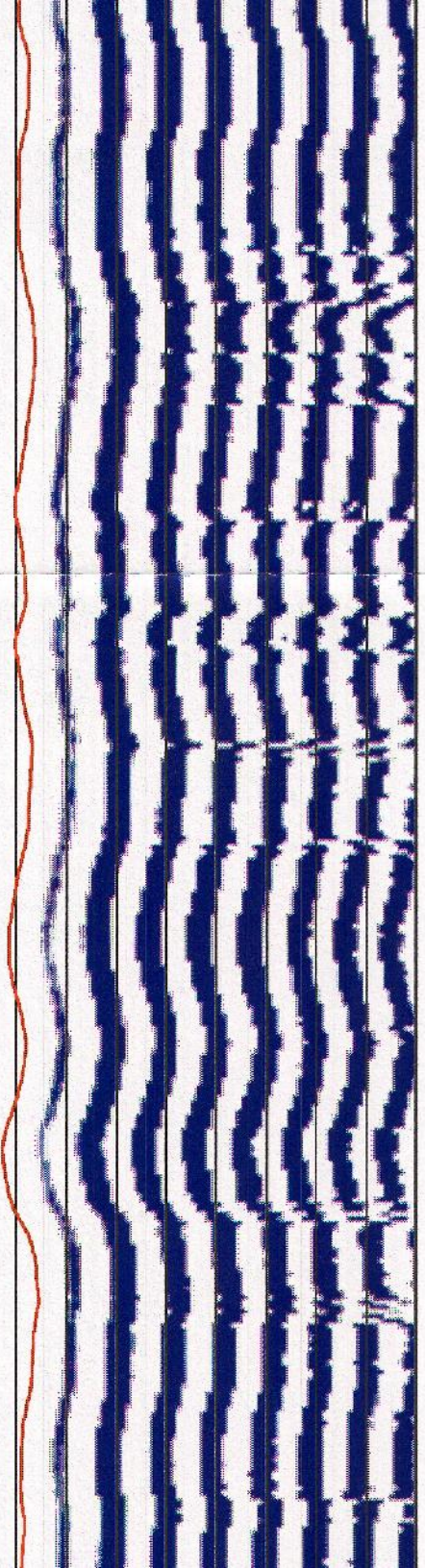
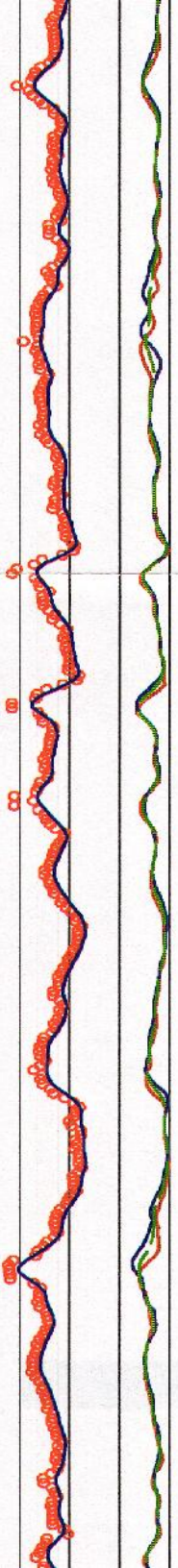






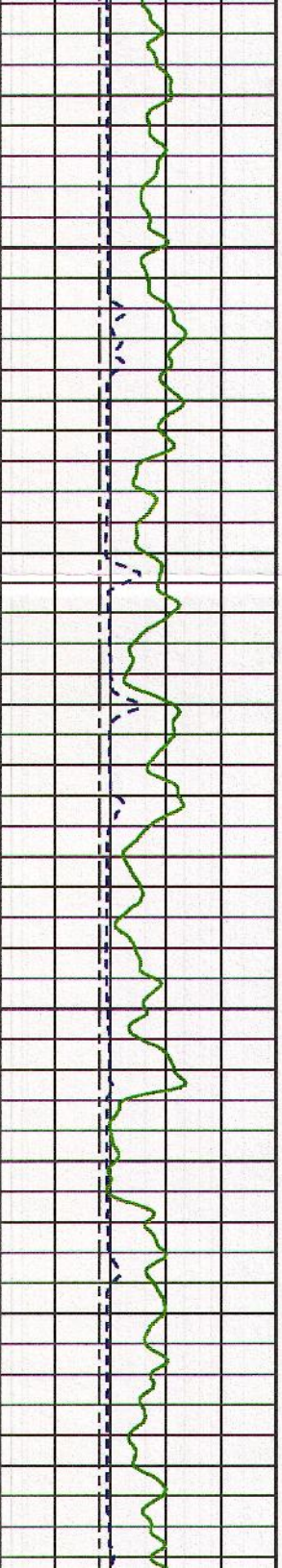




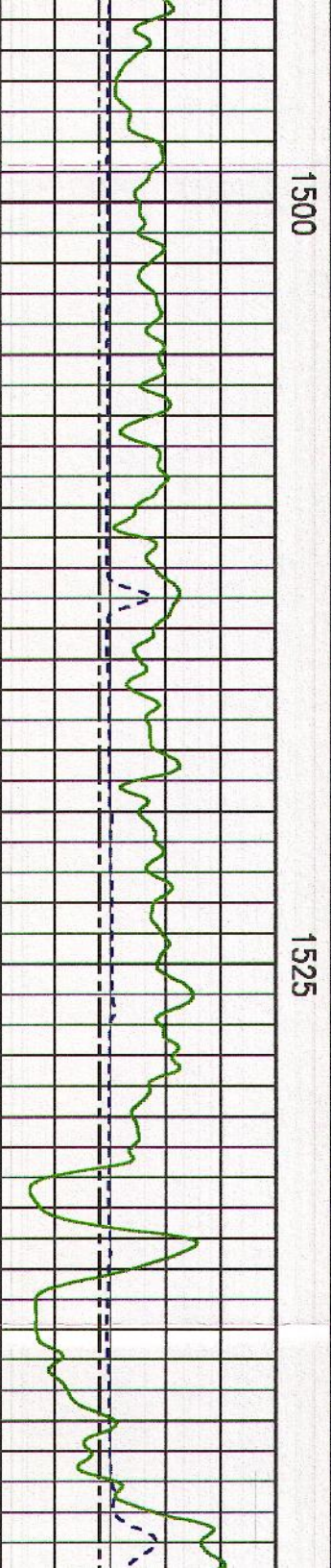
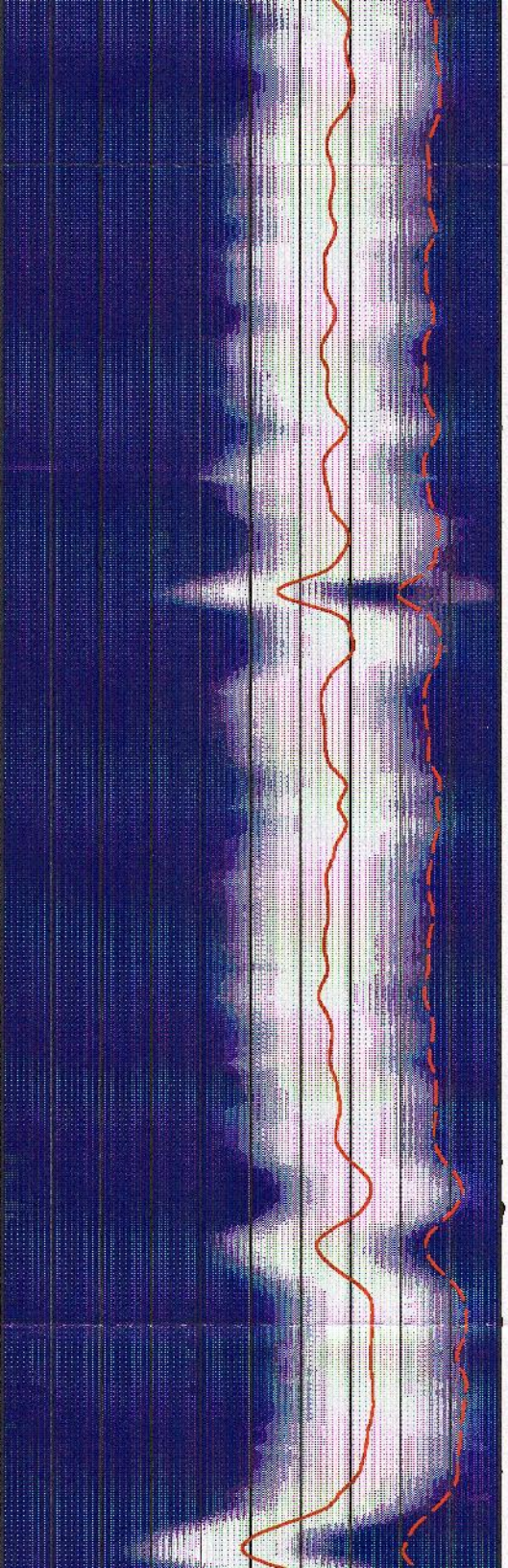
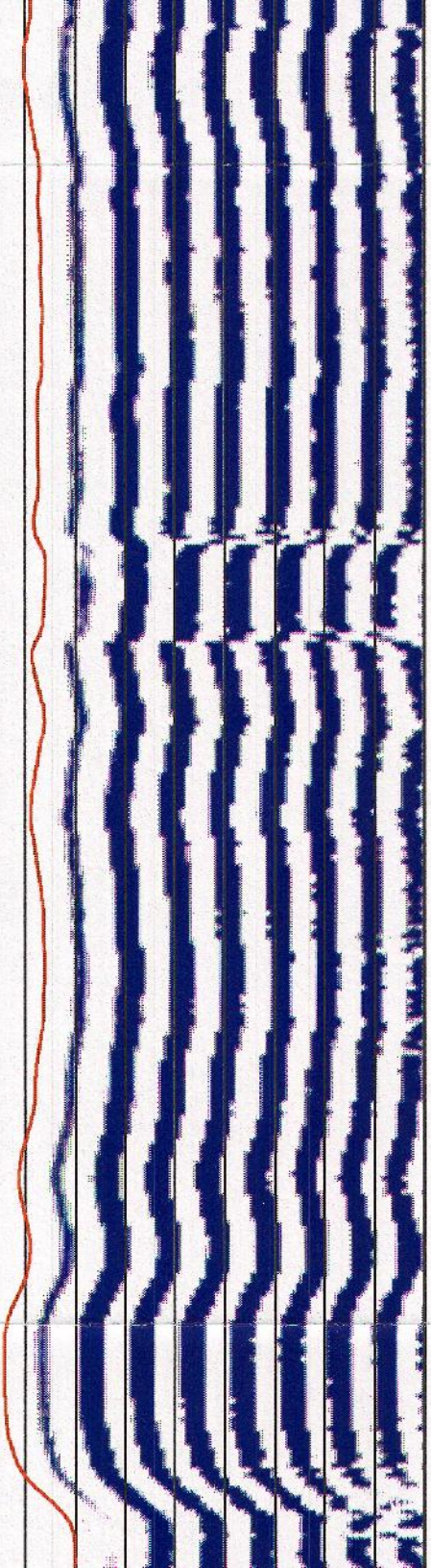
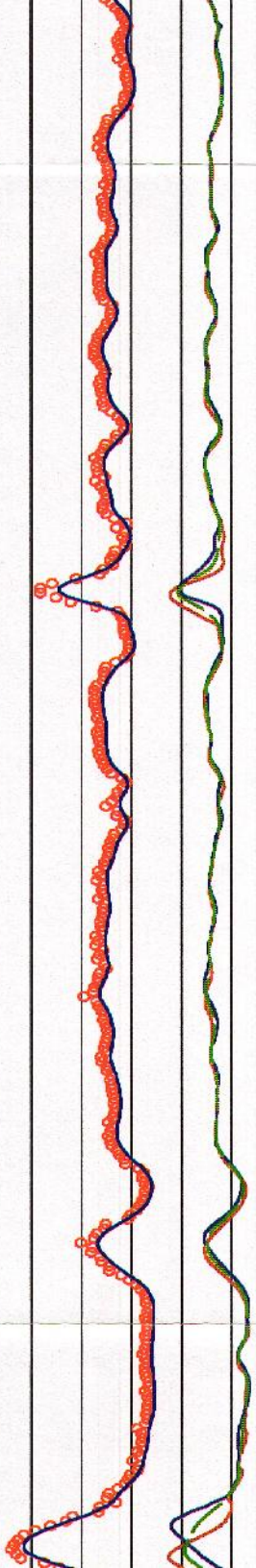


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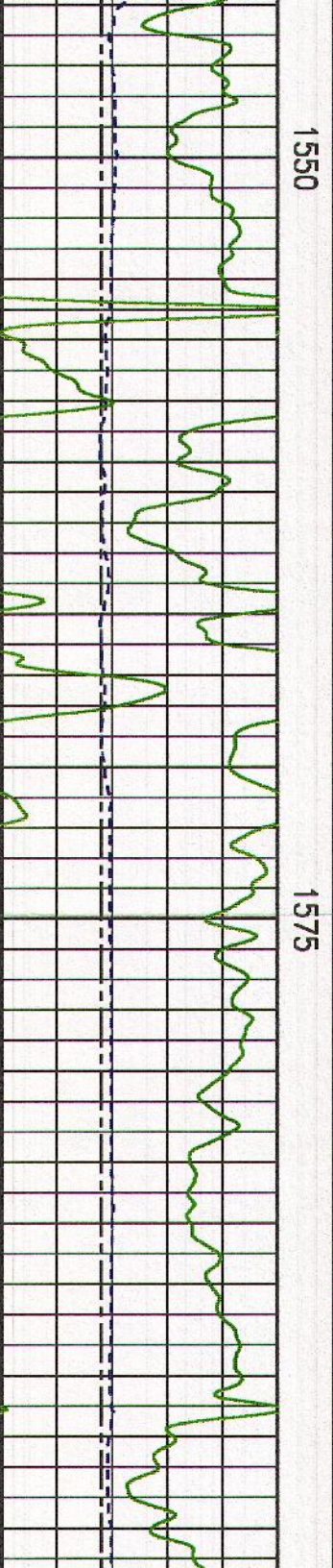
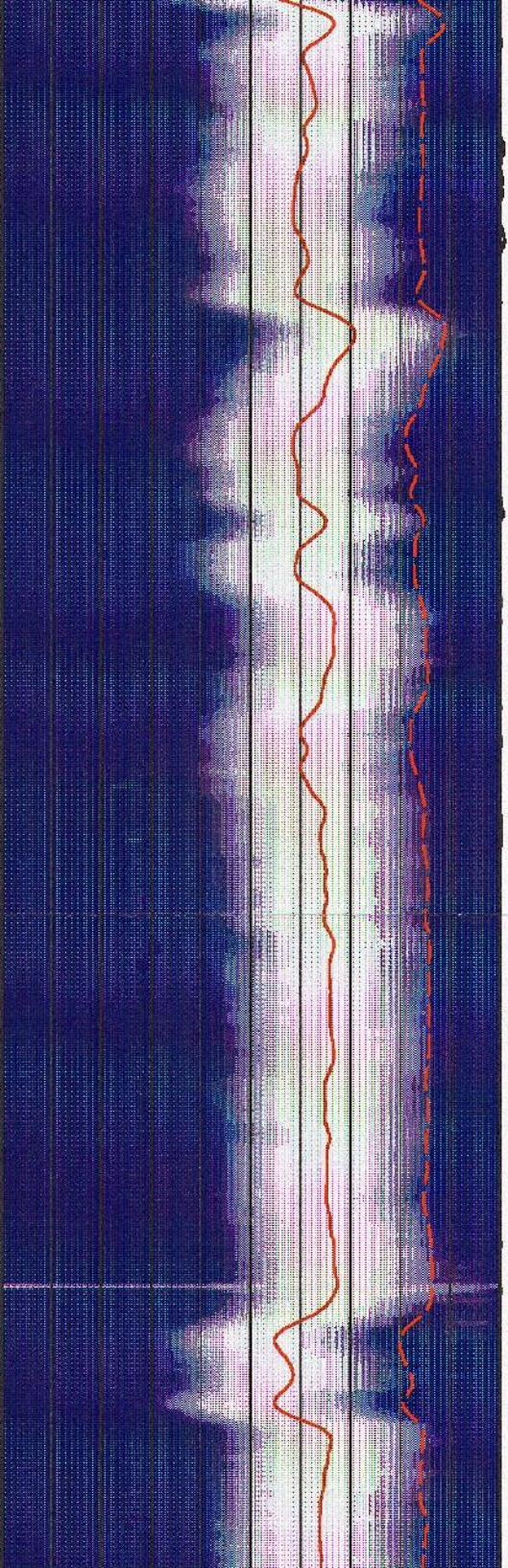
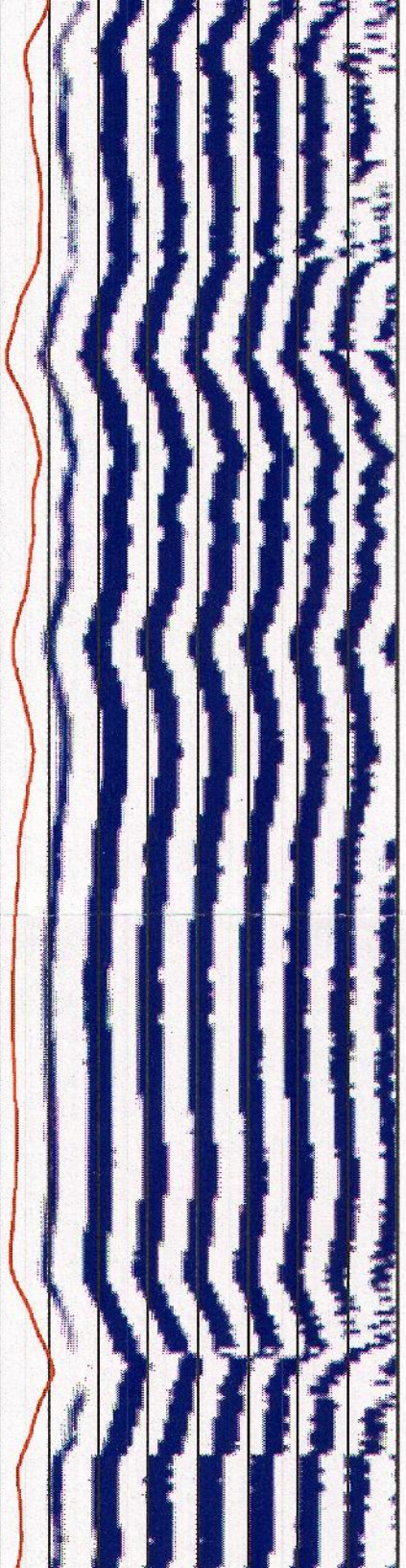
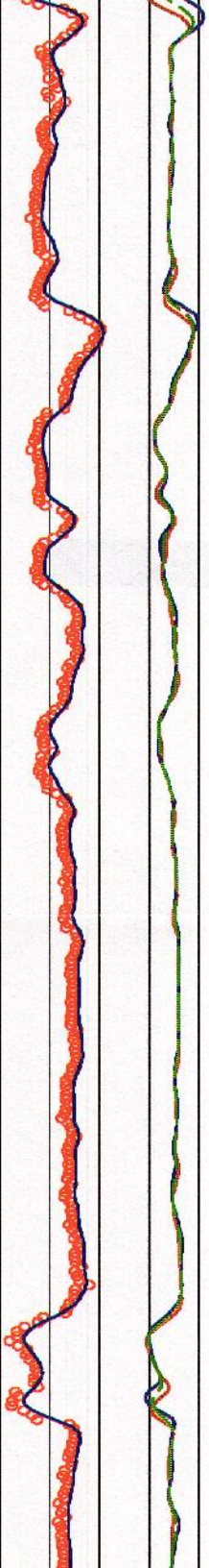
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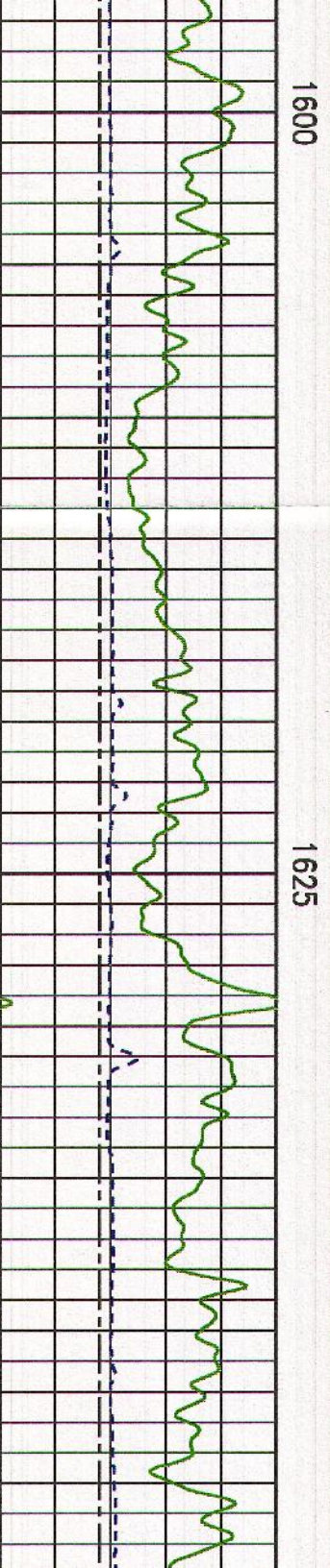
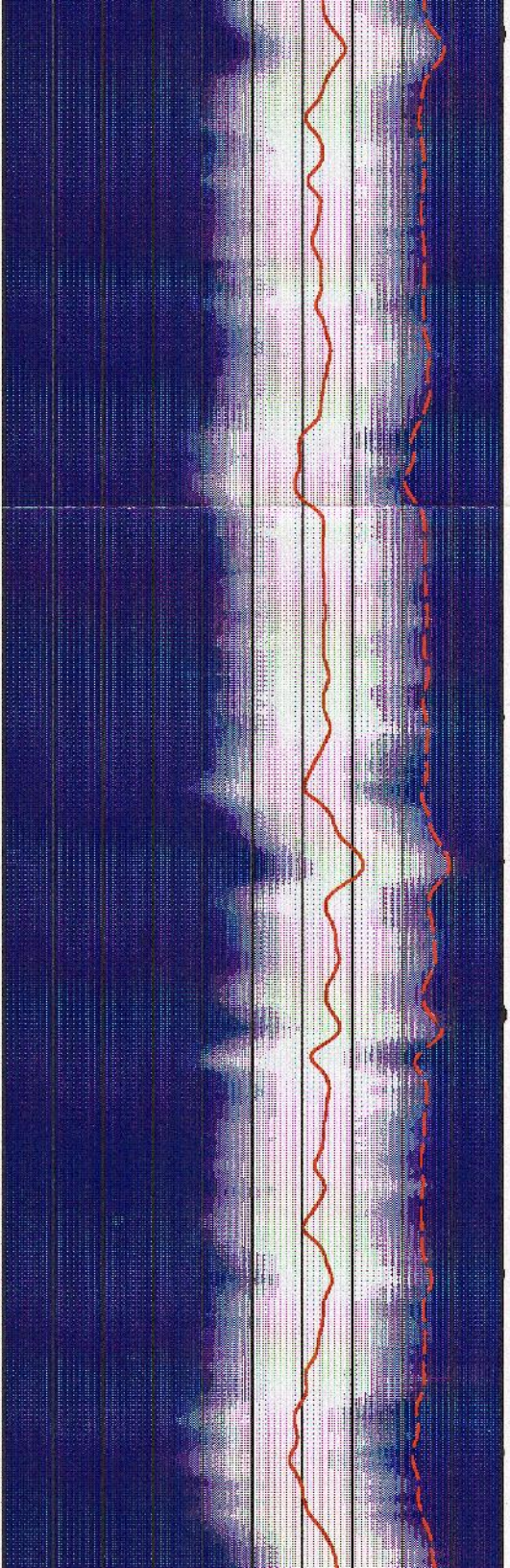
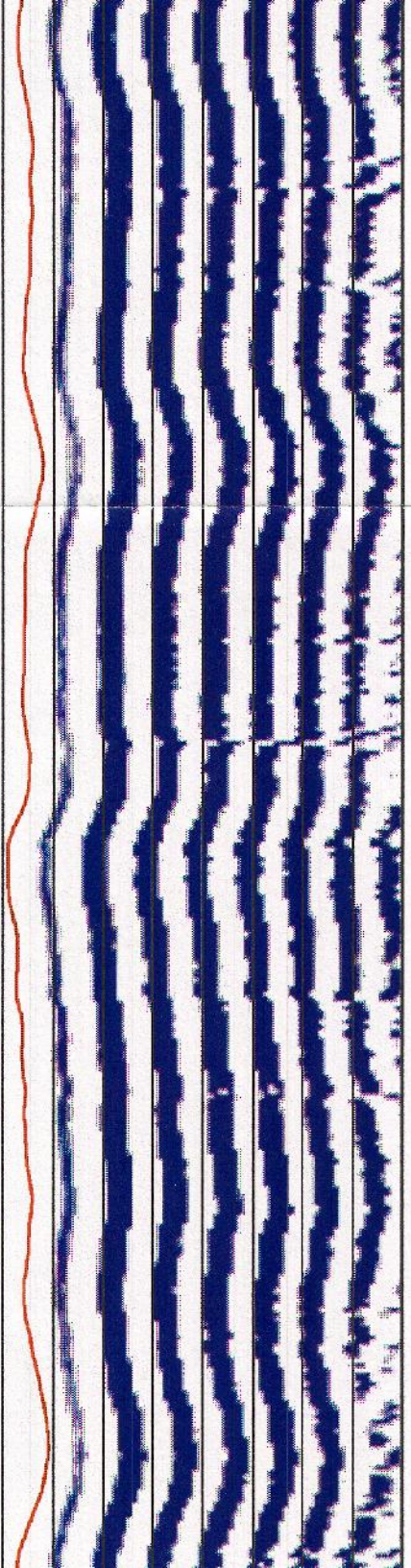
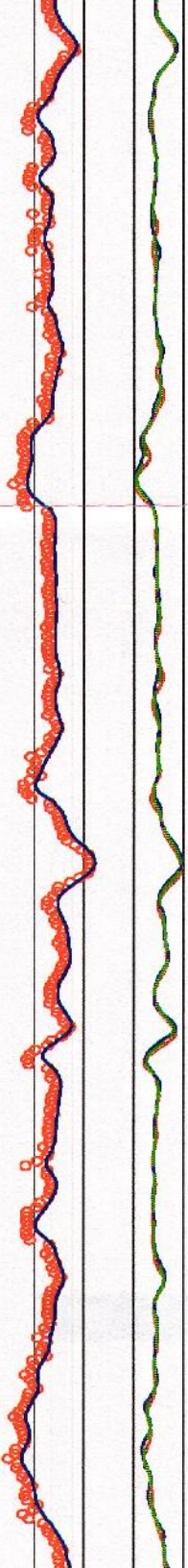




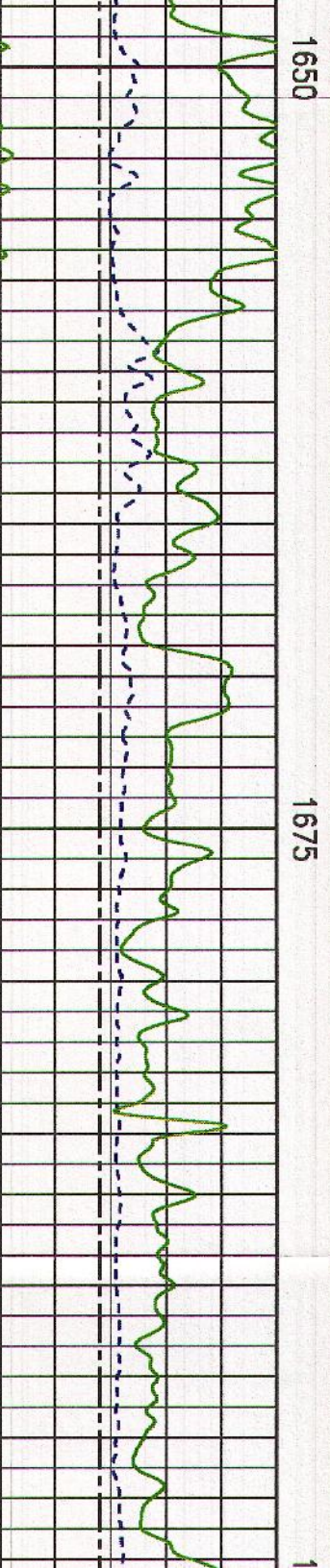
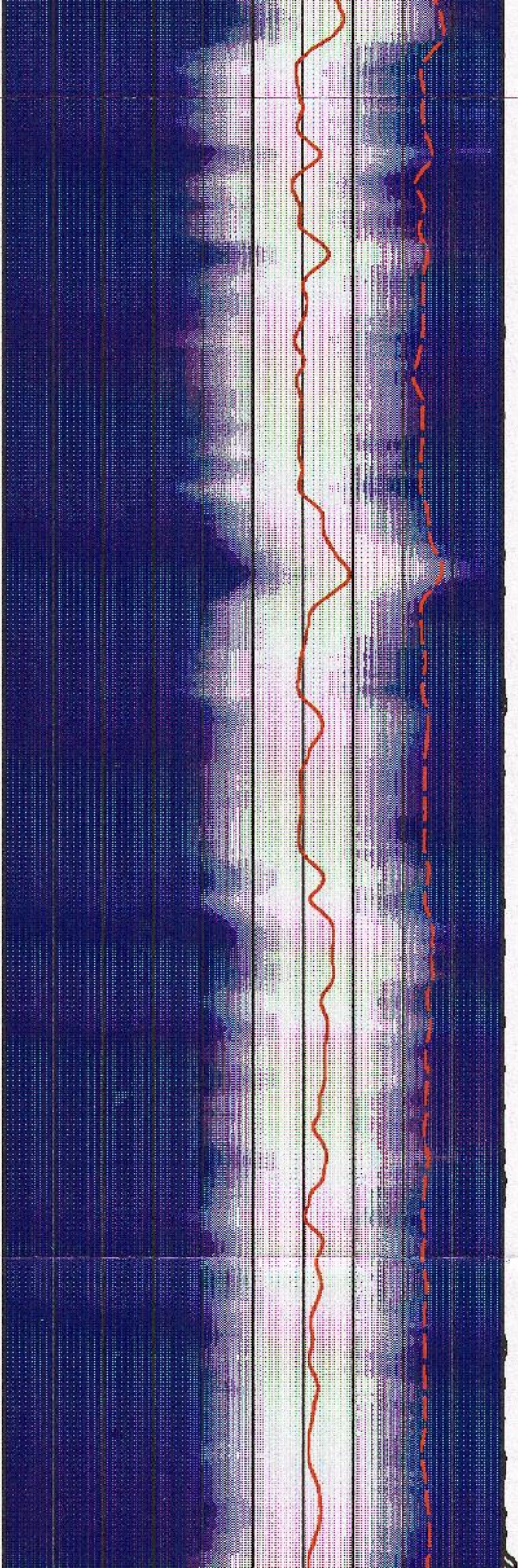
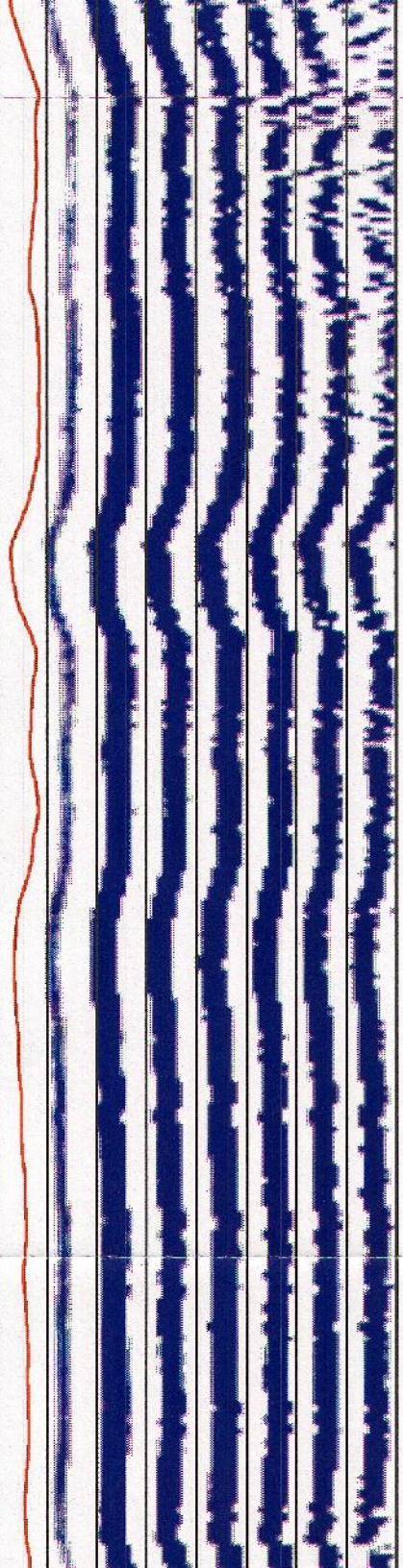
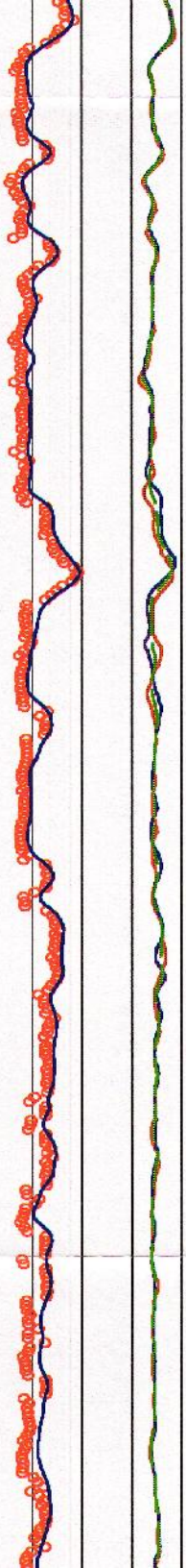




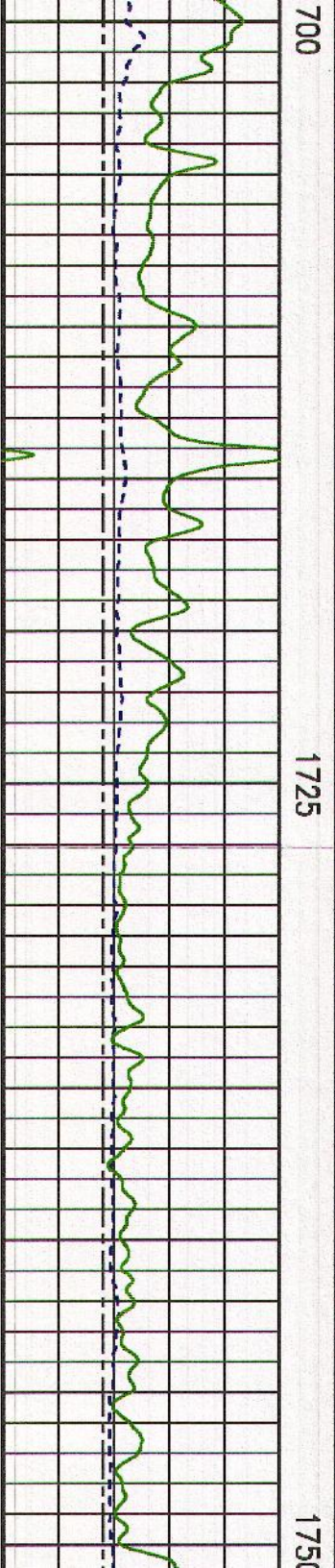
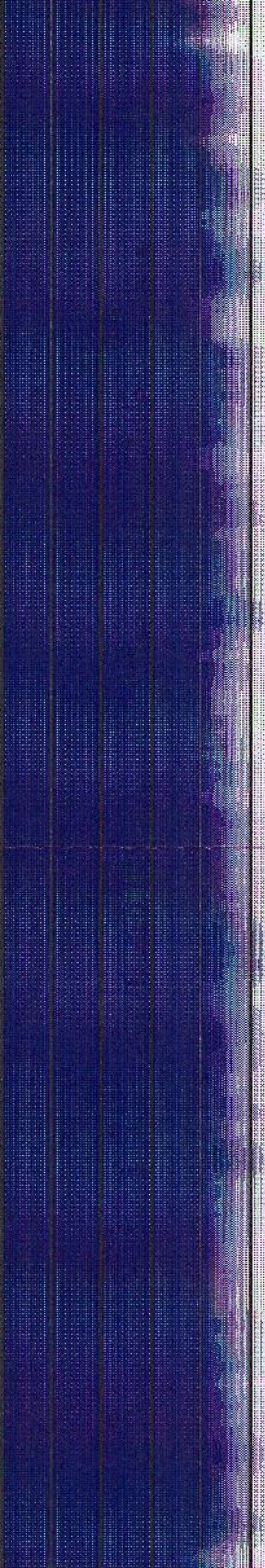
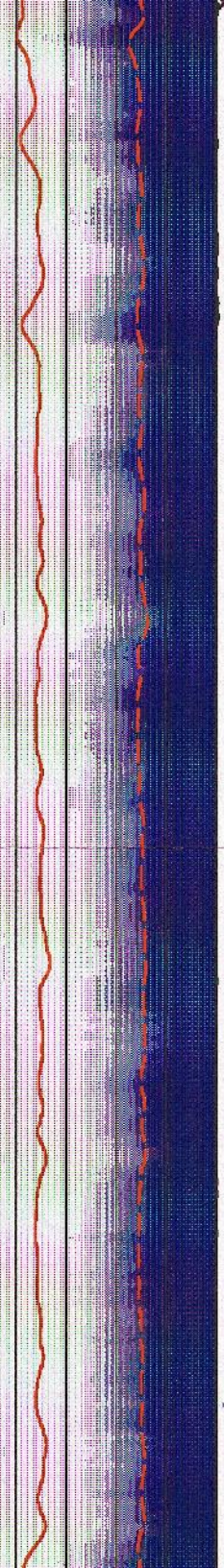
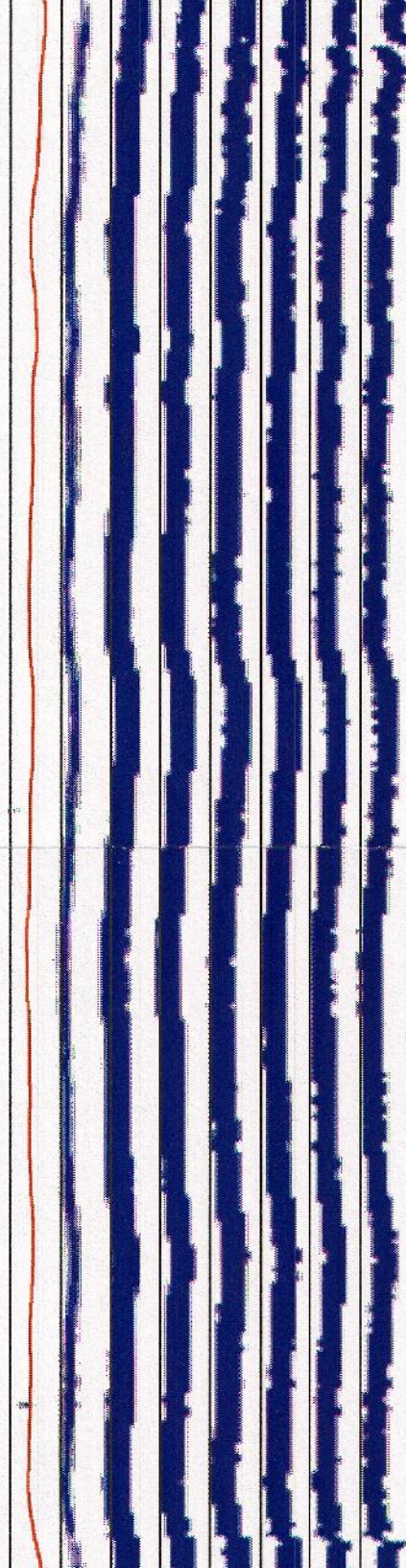
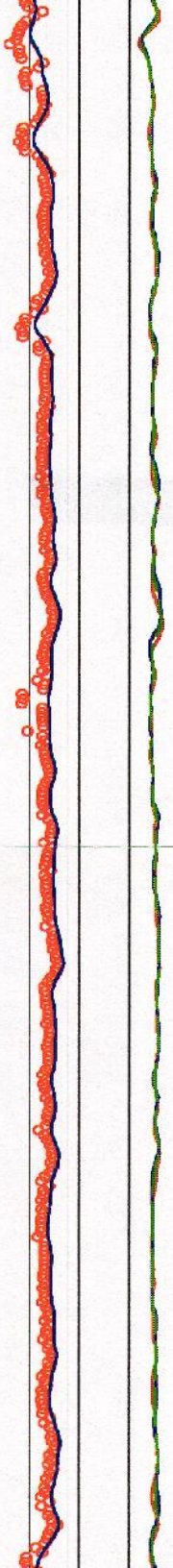










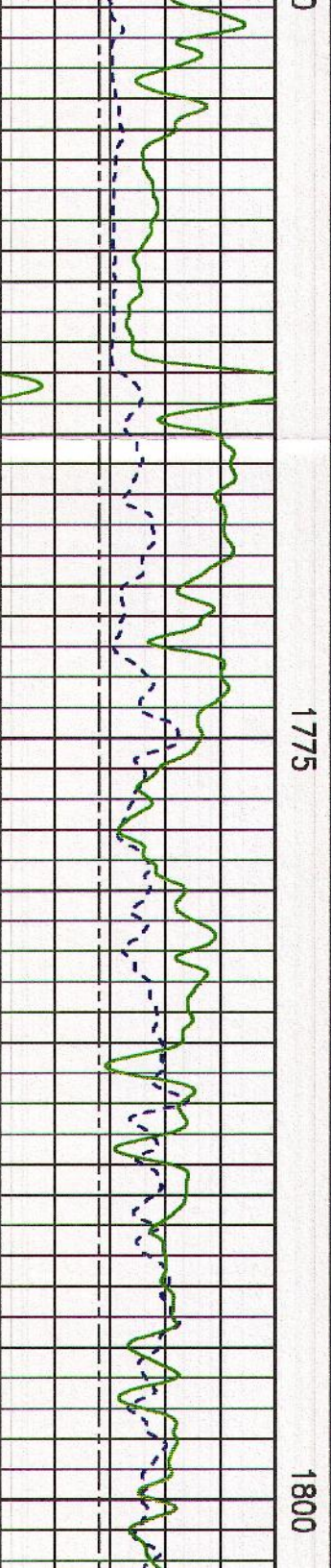
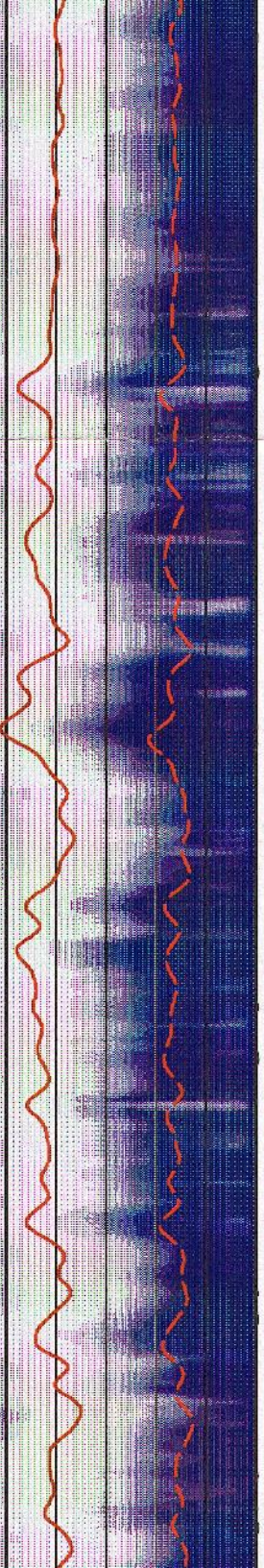
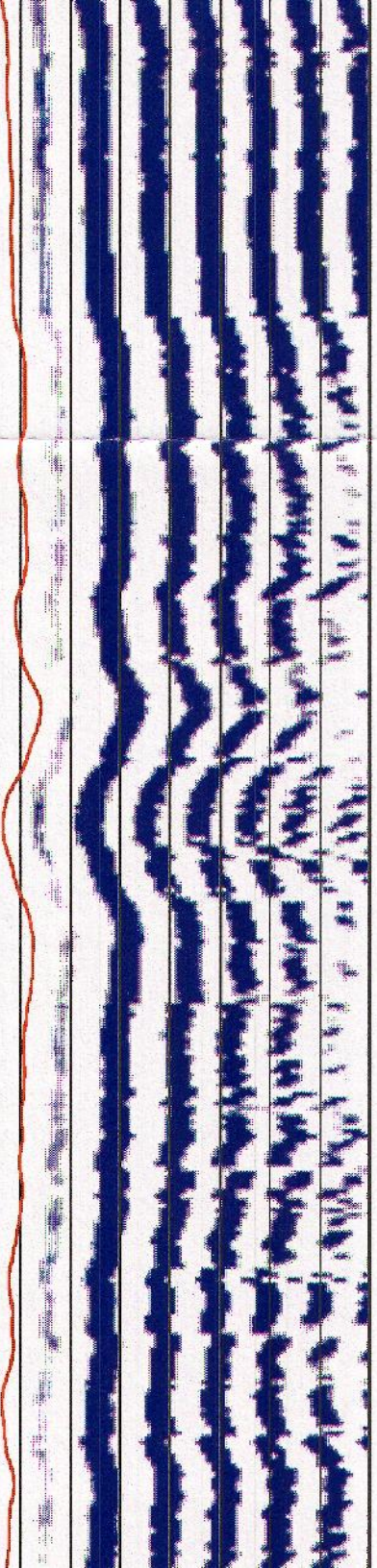
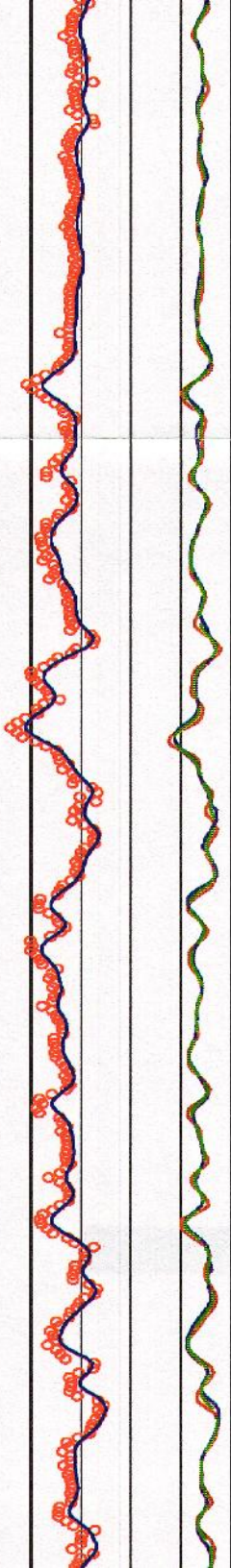


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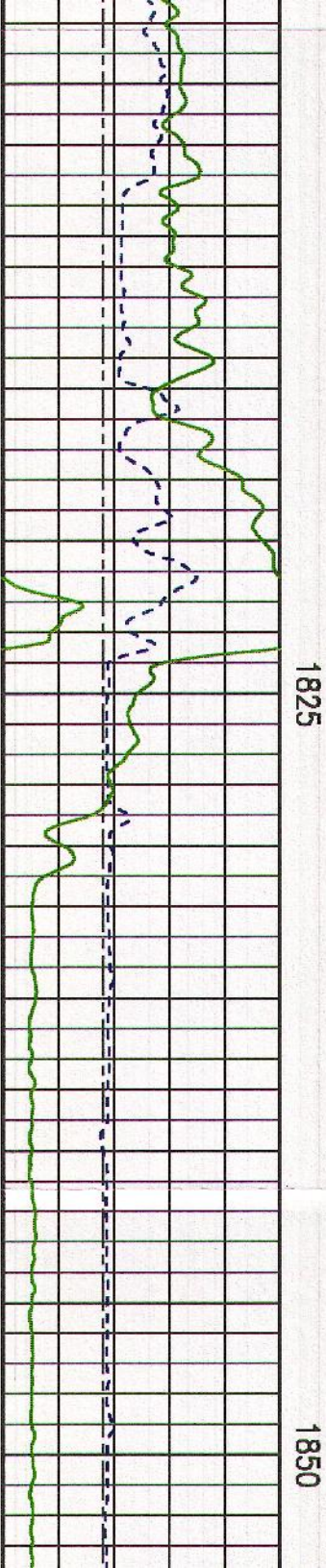
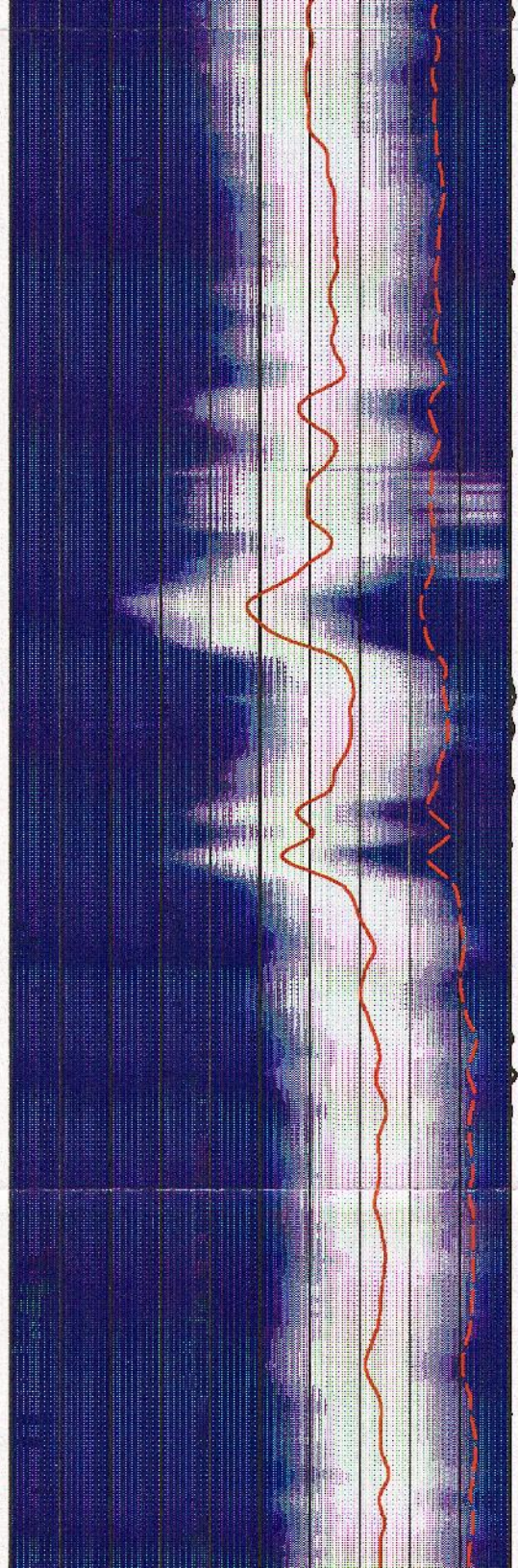
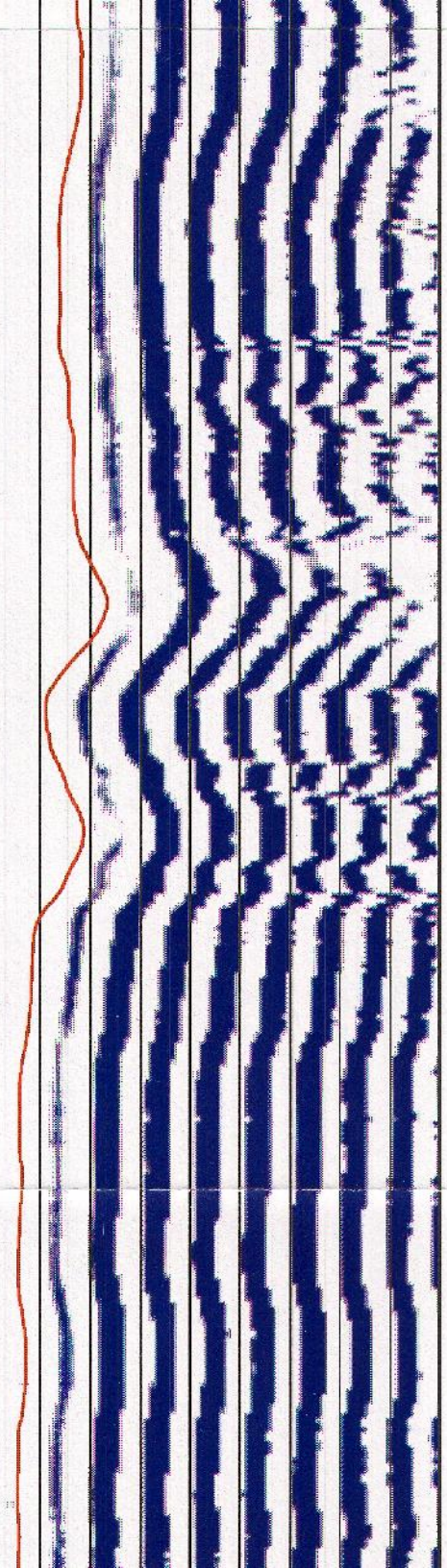
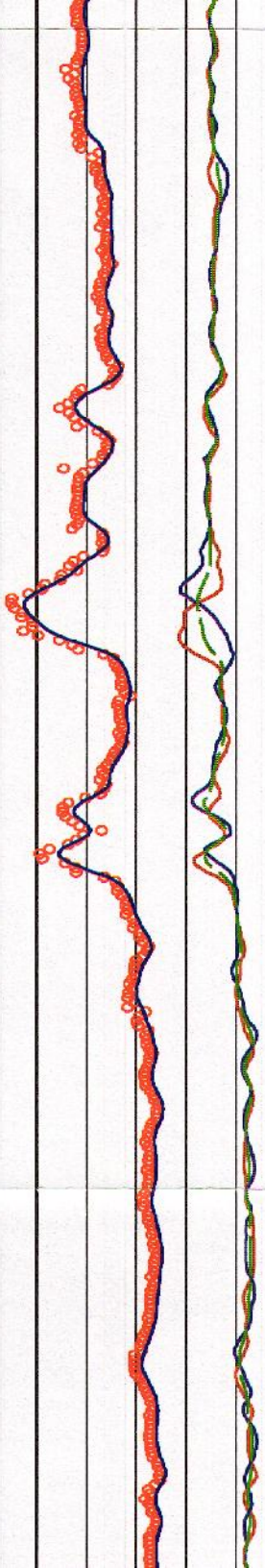




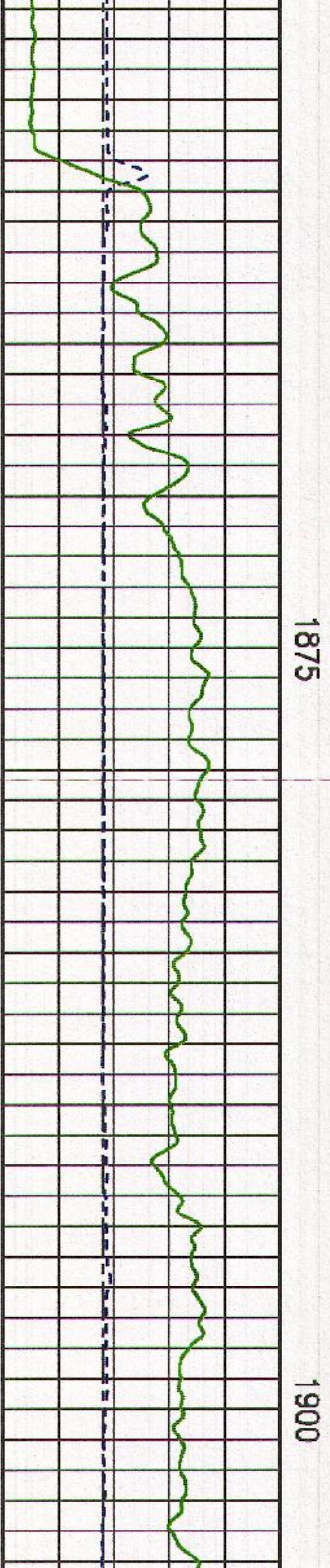
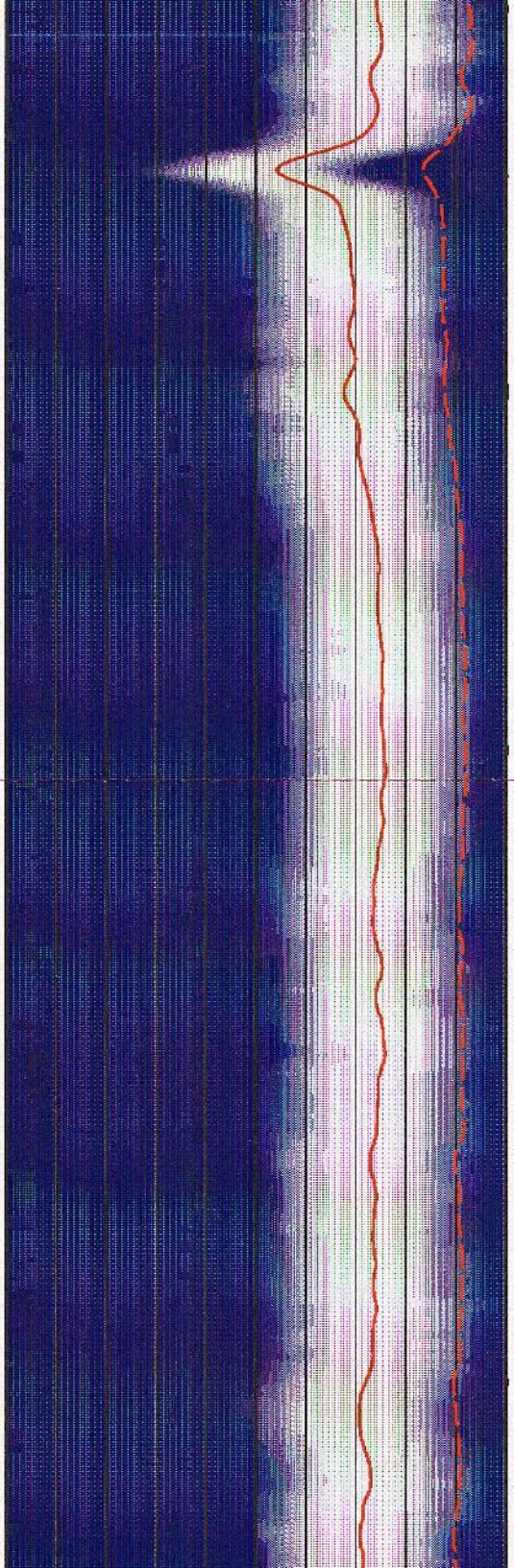
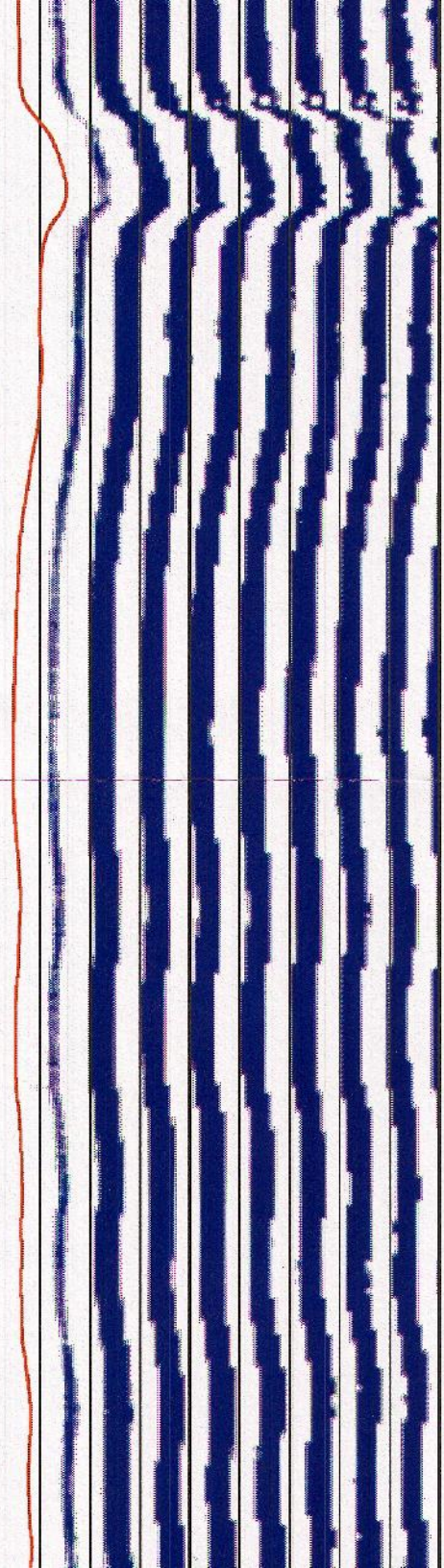
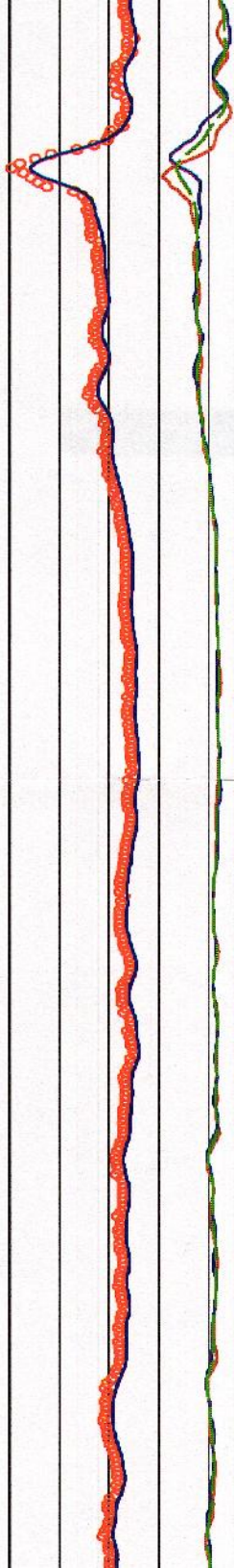
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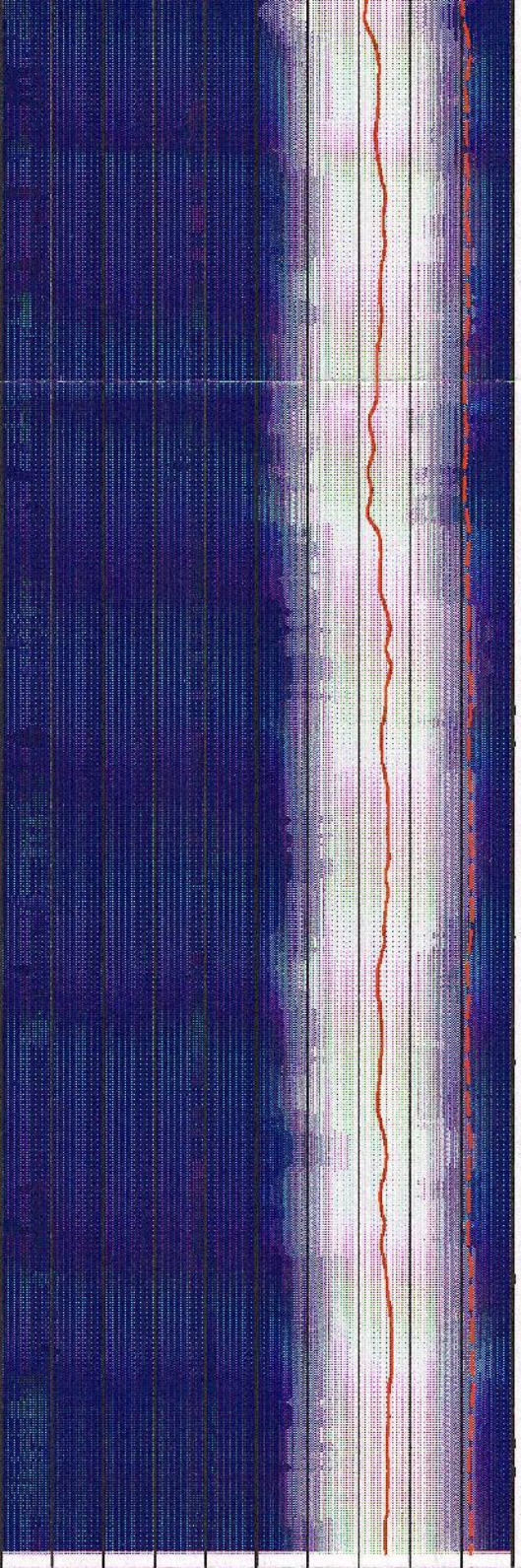
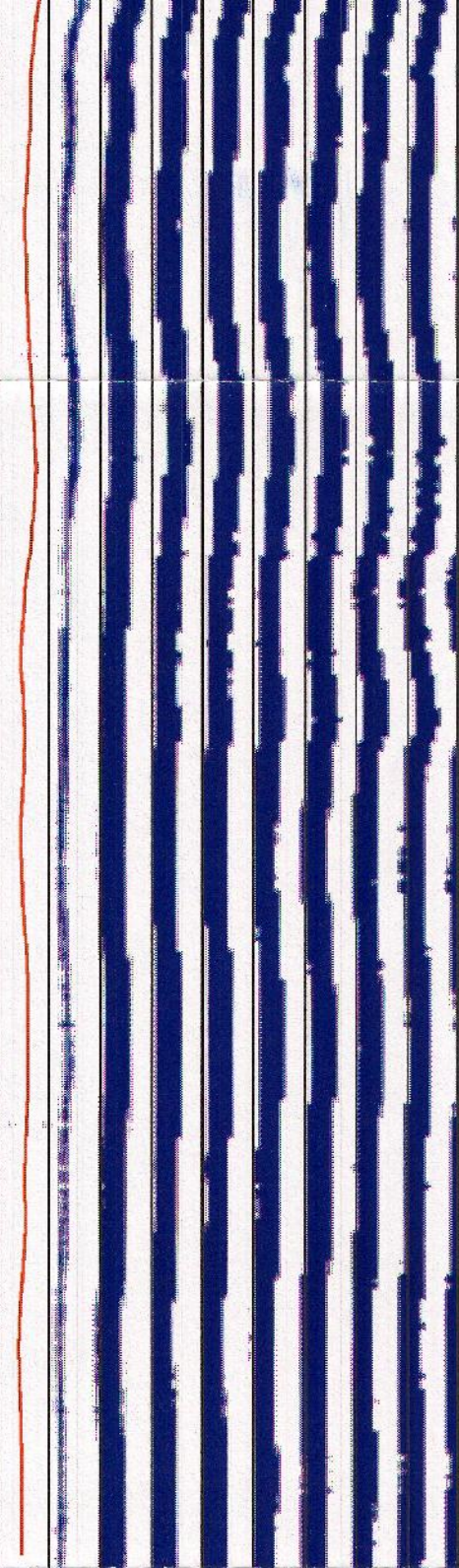
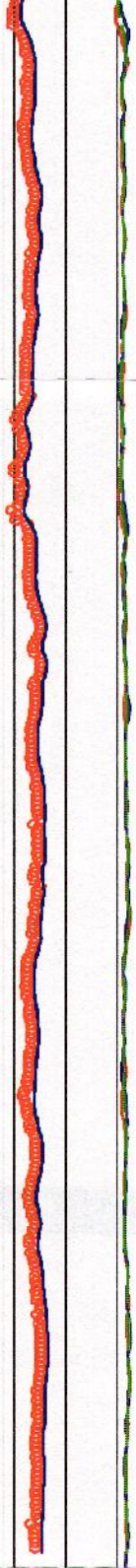






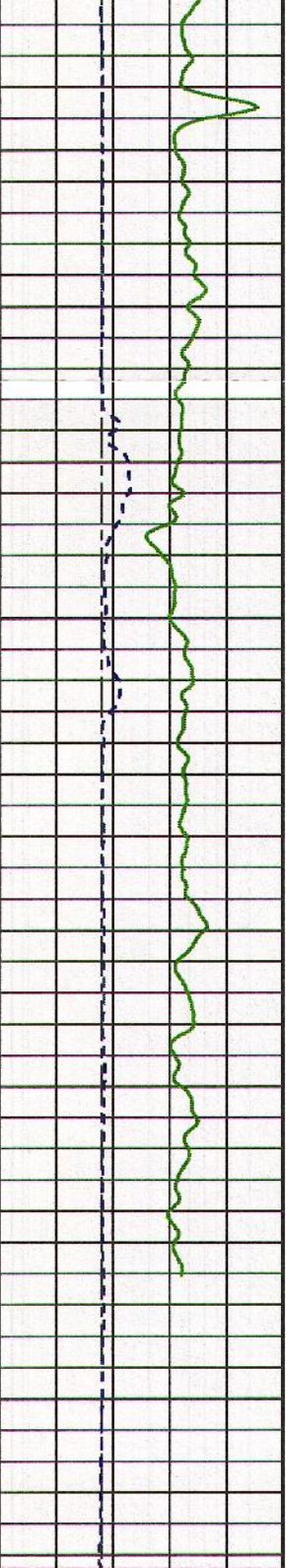




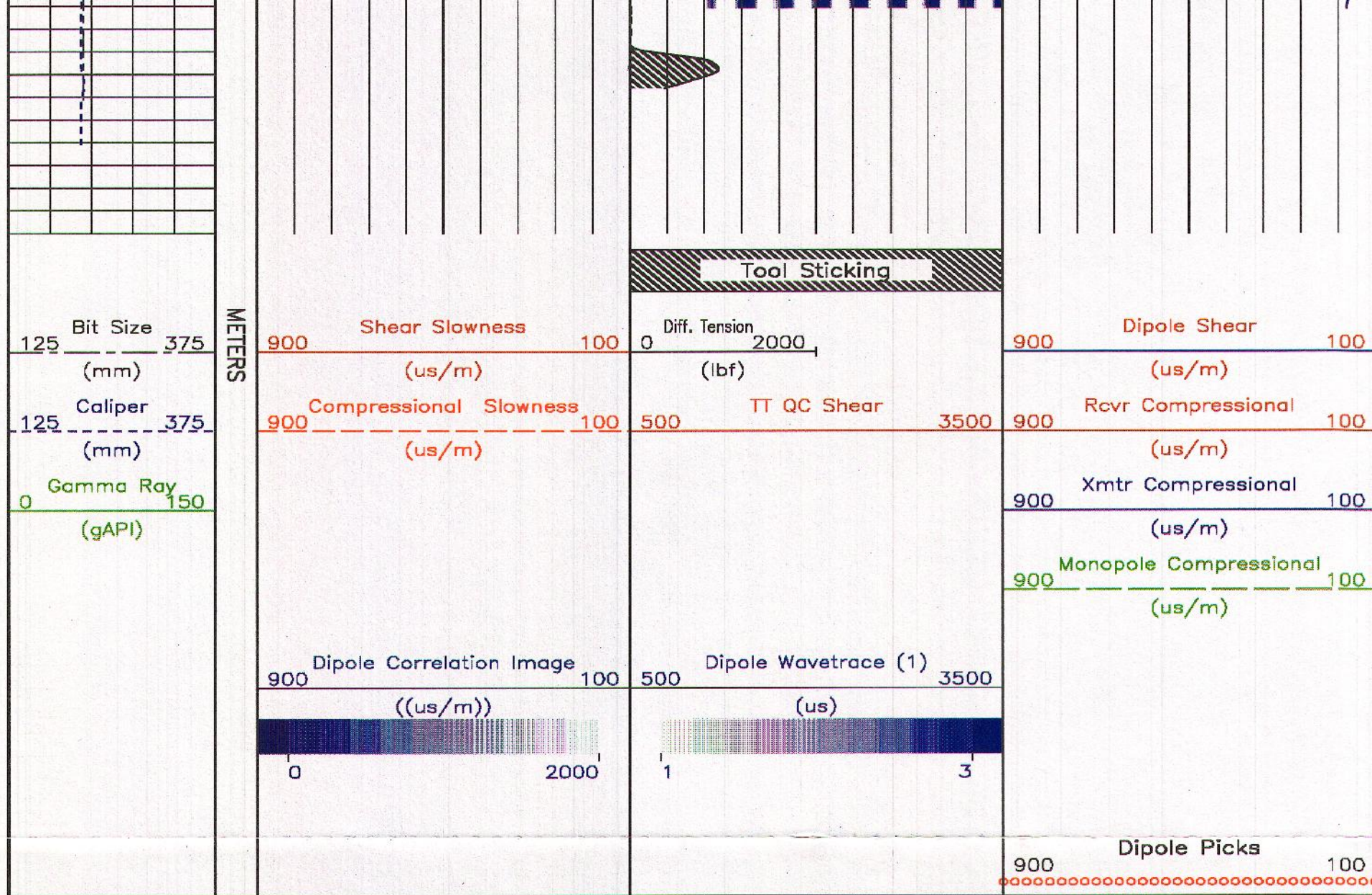


1925

1950







**Baker Atlas**

**COMPANY**  
**WELL**  
**FIELD**  
**PROVINCE**

**VULCAN MINERALS INC.**  
**VULCAN INVESTCAN RED BROOK #2**  
**BAY ST.GEORGE BASIN**  
**NEWFOUNDLAND AND LABRADOR**

**FILE NO:**

**API NO:**

**LOCATION:**

**ELEVATIONS:**

**KB 63.4 M**

**DF**

**UID:**

**N/A**

**LICENSE:**





BH LOC. LSD:  
LAT 48.2679591667 LONG -58.7501141667

GL 57.1 M	ADW 2009-116-03
DATE	25-NOV-2009