



PIONEER

Pioneer Energy Services

Gamma Ray / Caliper Log

API No.

15-063-22345-00-00

Company **COBALT ENERGY, LLC**

Well **JE UNIT A #1-5**

Field **WILDCAT**

County **GOVE**

State **KANSAS**

Location

2386' FNL & 86' FWL

Other Services
CNL/CDL
DIL/MEL

Sec: 5

Twp: 14S

Rge: 27W

Elevation

Permanent Datum **GROUND LEVEL** Elevation **2564'**
Log Measured From **KELLY BUSHING 5 Ft. Above Perm. Datum**
Drilling Measured From **KELLY BUSHING**

K.B. **2569'**
D.F. **N/A**
G.L. **2564'**

Date

2/26/2019

Run Number

ONE

Type Log

Bhv

Depth Driller

4355'

Depth Logger

4348'

Bottom Logged Interval

4347'

Top Logged Interval

200'

Type Fluid In Hole

CHEMICAL

Salinity, PPM CL

4000

Density

9.3

Level

FULL

Max. Rec. Temp. F

120

Operating Rig Time

4 HOURS

Equipment -- Location

91 Hays

Recorded By

IAN MABB

Witnessed By

ROBERT HENDRIX

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

ONE 12.25"

0"

247'

8.625"

23#

0"

247'

TWO 7.875"

247'

TD

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thank you for using Pioneer Energy Services
785.625.3858
QUINTER, KS.
SOUTH TO RD K, WEST TO GO RD 60,
NORTH INTO 1 1/2 MILES



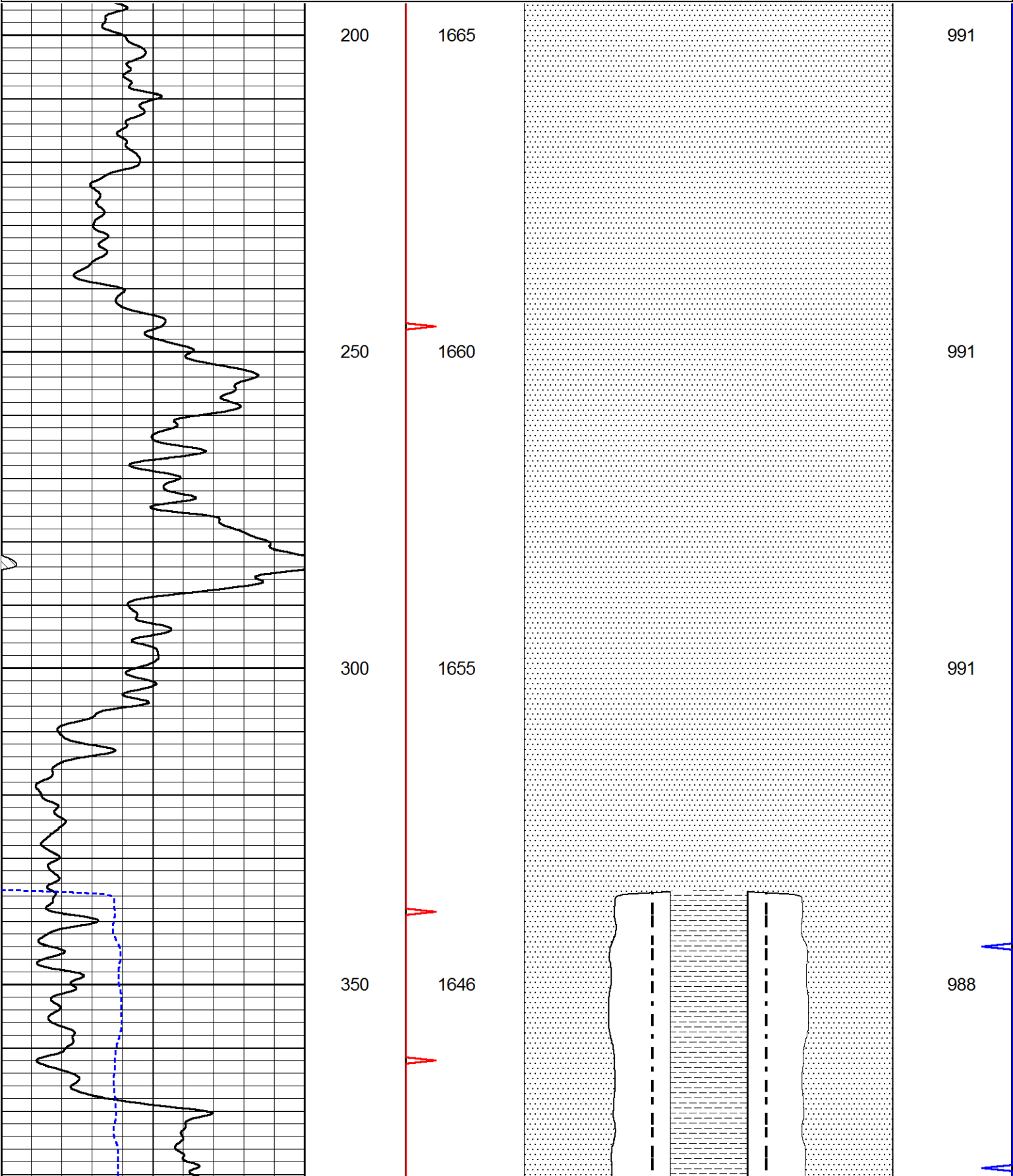
PIONEER

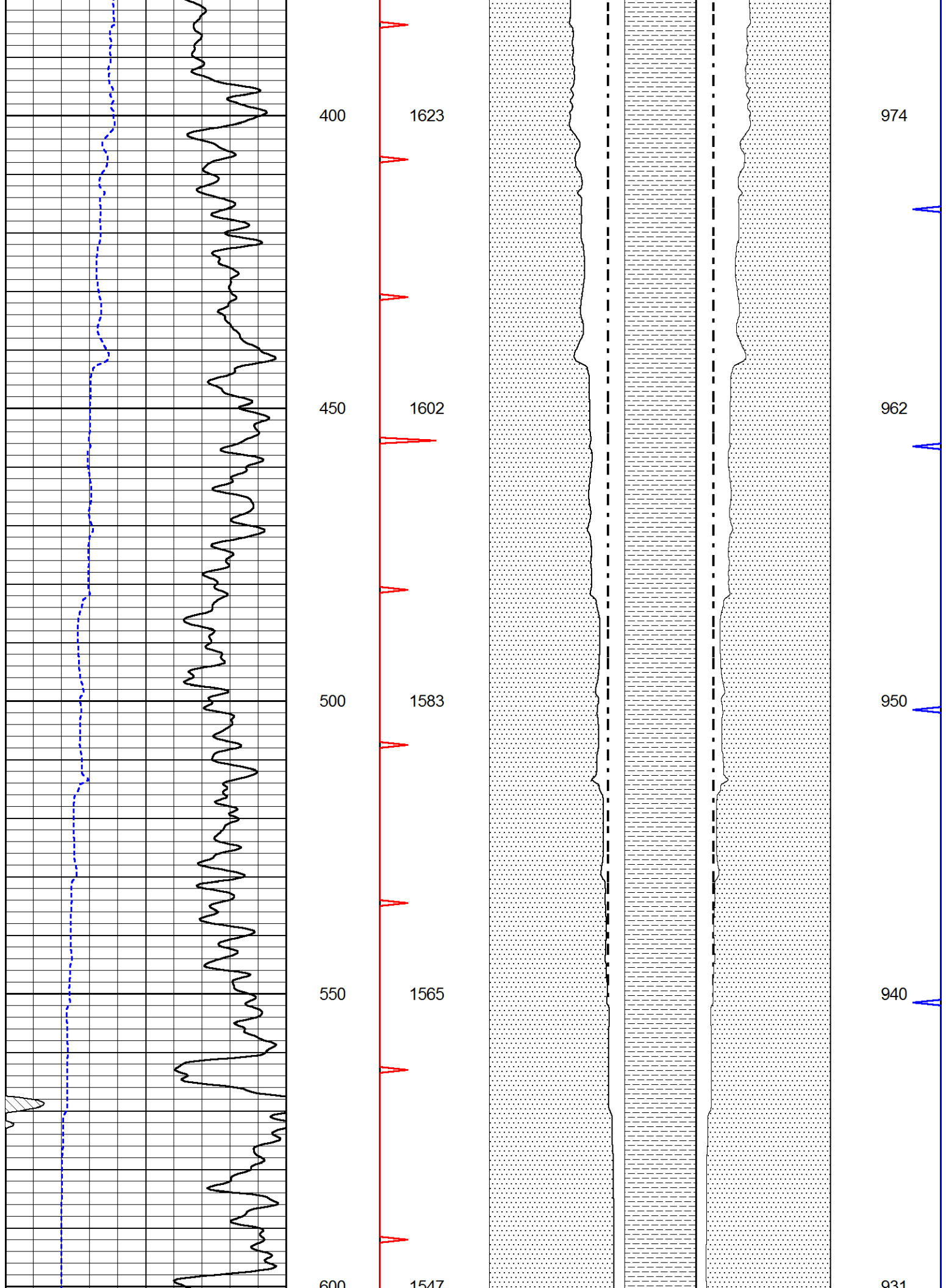
Pioneer Energy Services

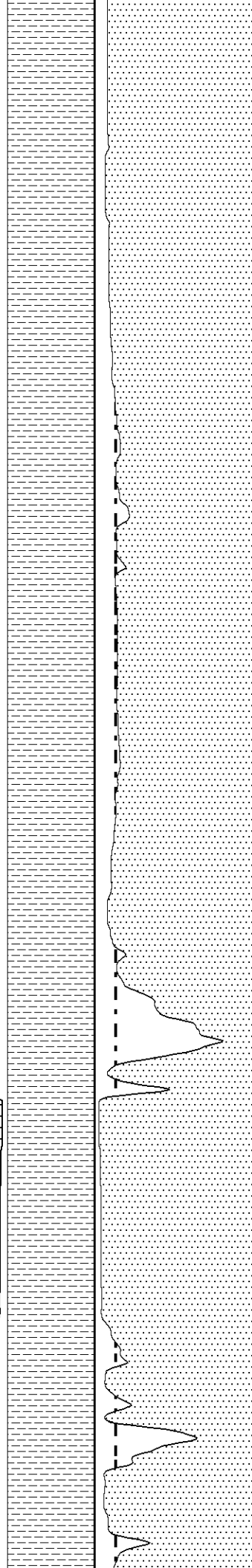
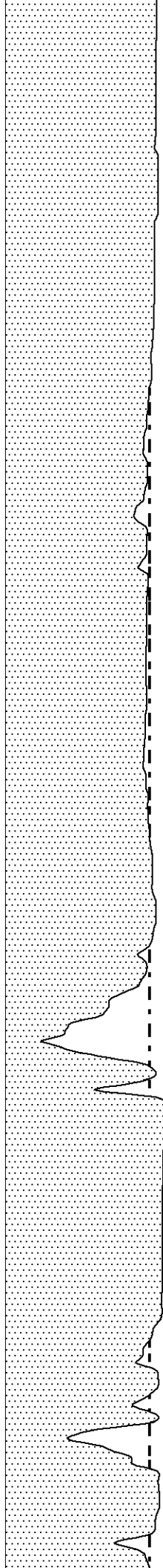
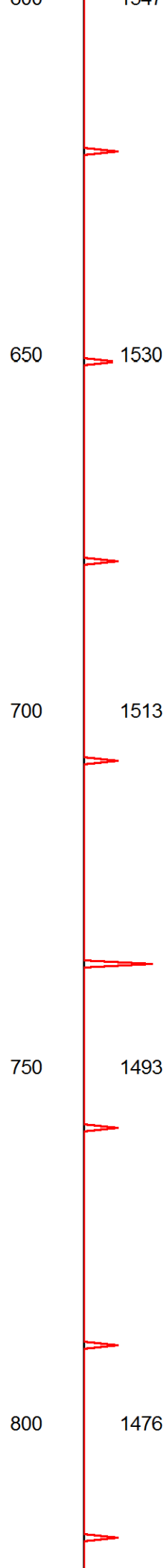
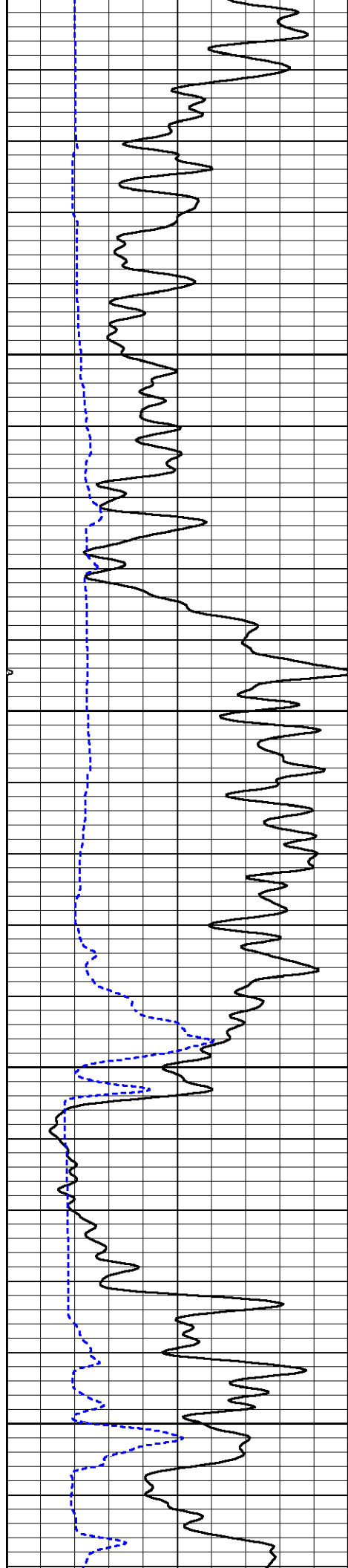
MAIN PASS

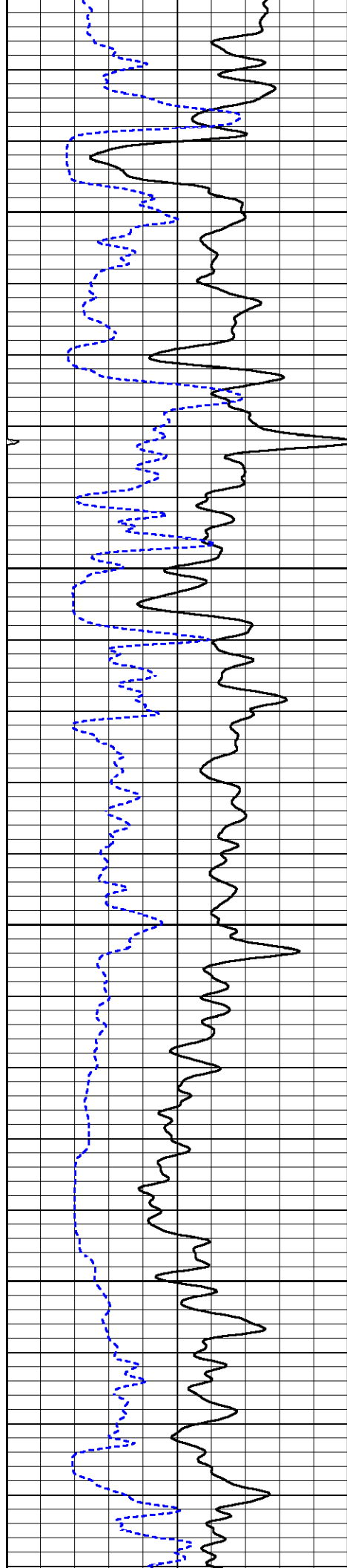
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Dataset Pathname	stackmel/pass3.1
Presentation Format	bhv5half
Dataset Creation	Tue Feb 26 15:10:29 2019
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Borehole Volume (ft3)	10	10	Annular Volume (ft3)	0
150	GR (GAPI)	300						
6	DCAL (in)	16						









850

900

950

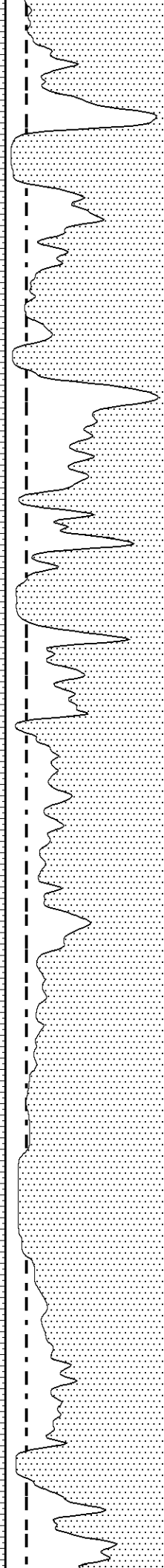
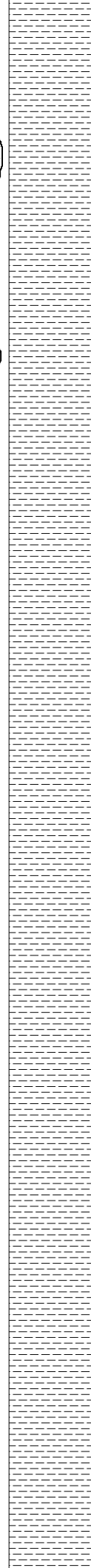
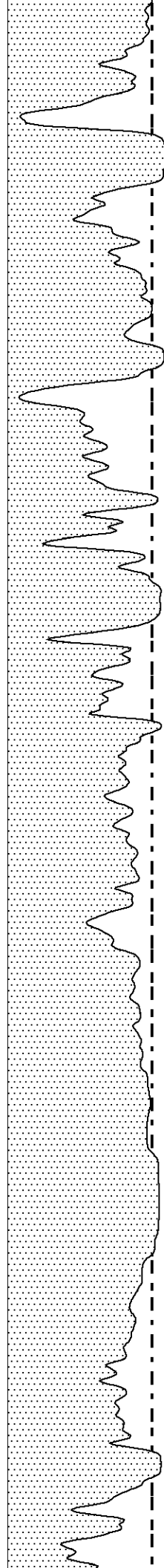
1000

1455

1433

1413

1394



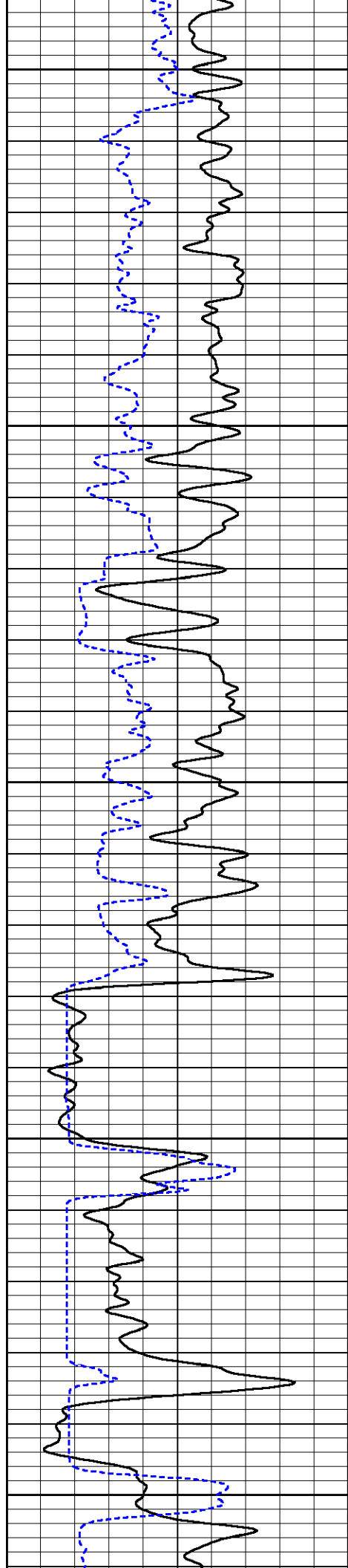
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867

854

844





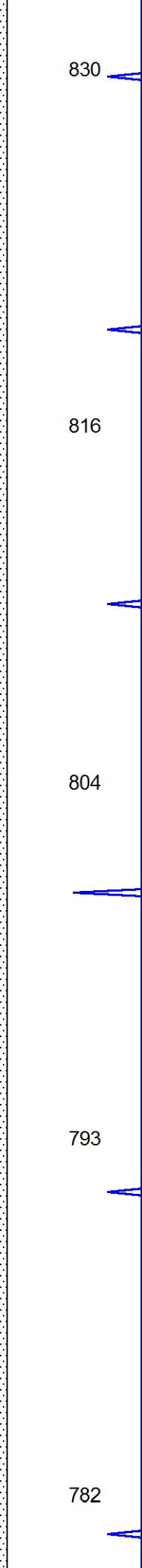
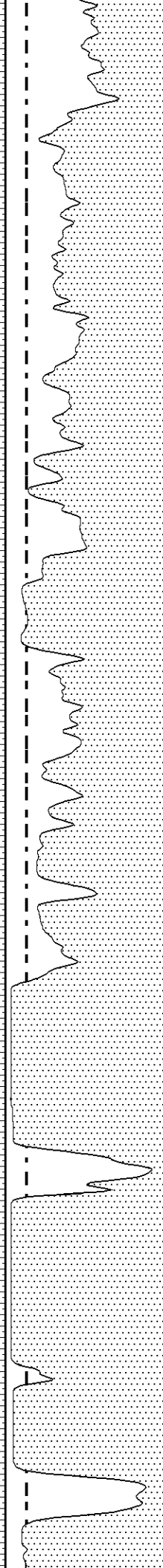
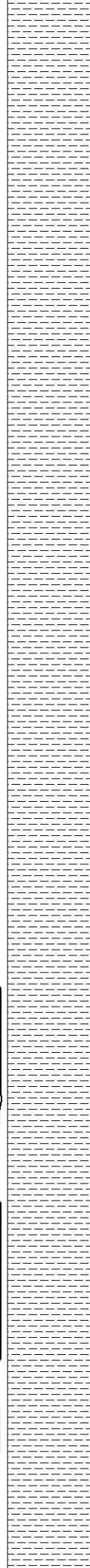
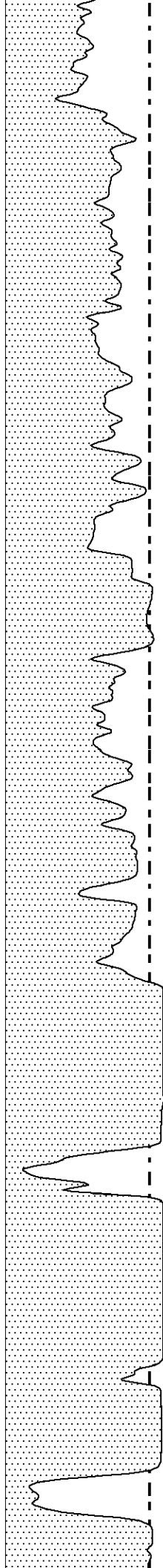
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1100 1350

1150 1329

1200 1310

1250 1291



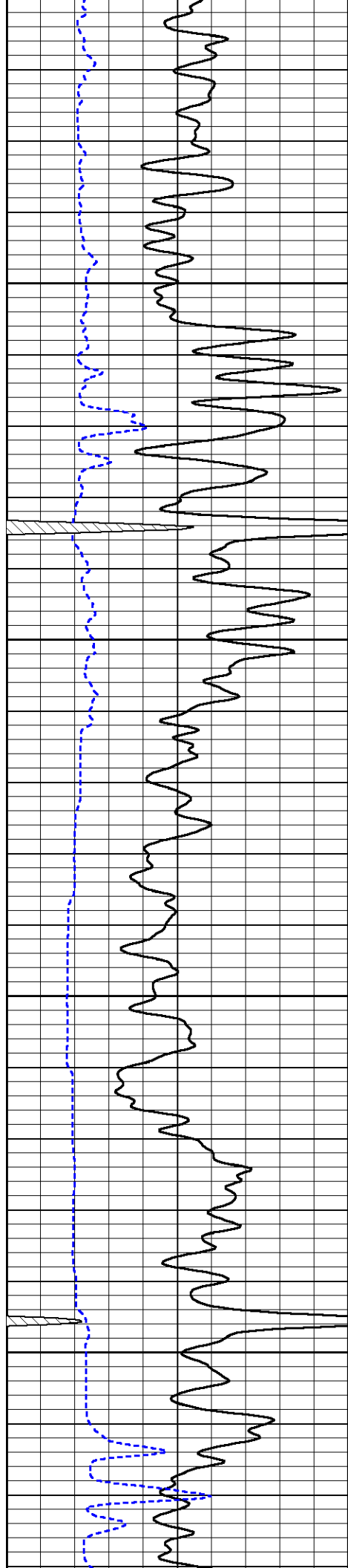
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816

804

793

782



1300

1272

1350

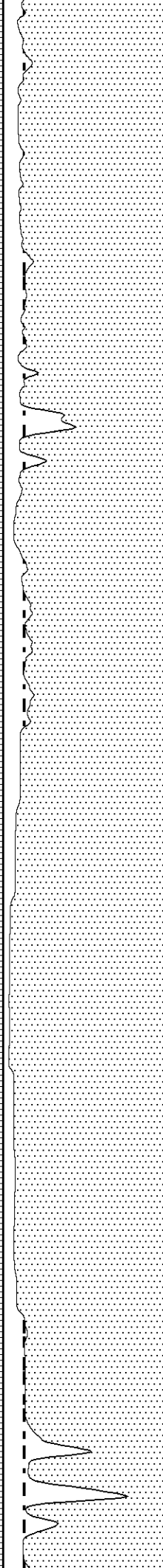
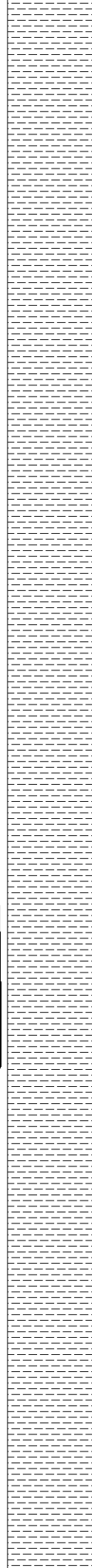
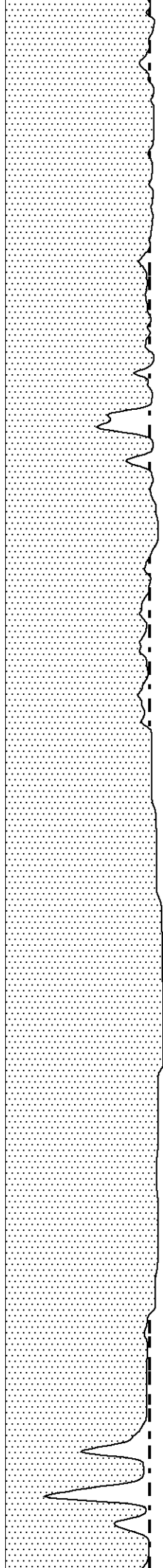
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1400

1236

1450

1218



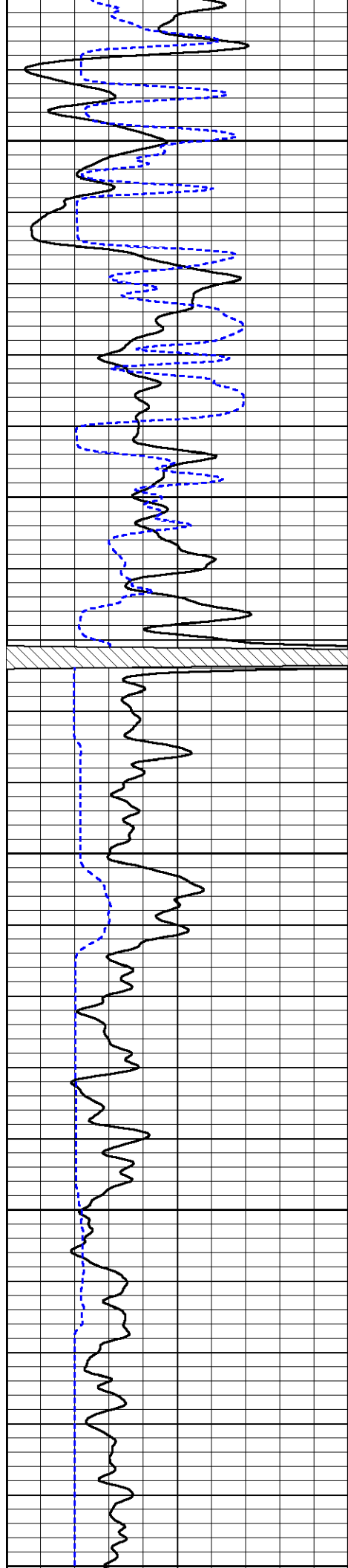
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761

752

743





1500

1196

1550

1165

1600

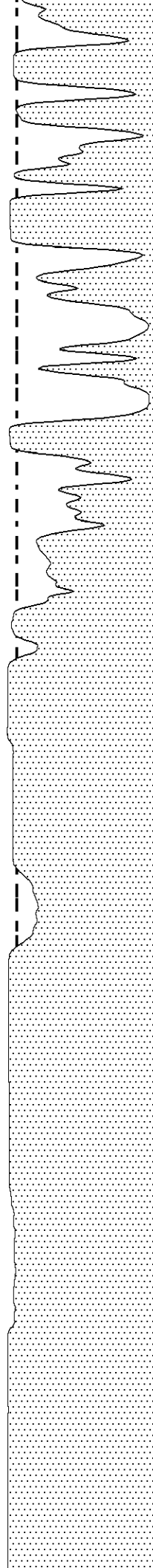
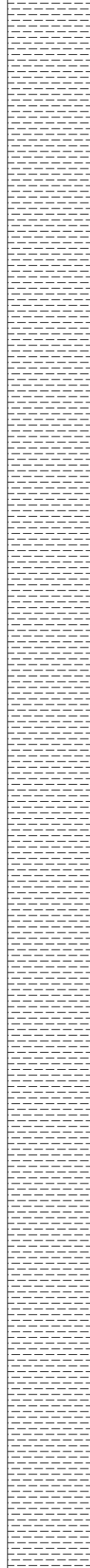
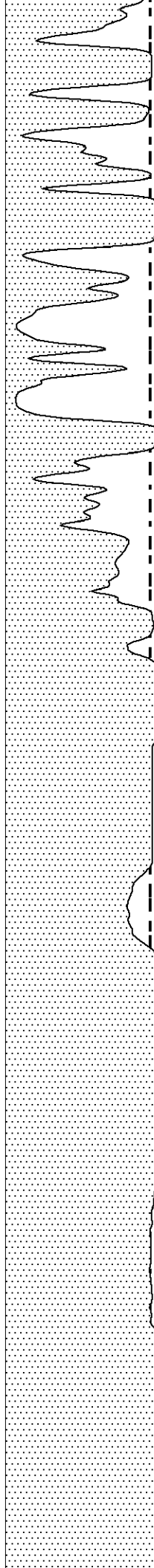
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1650

1127

1700

1110



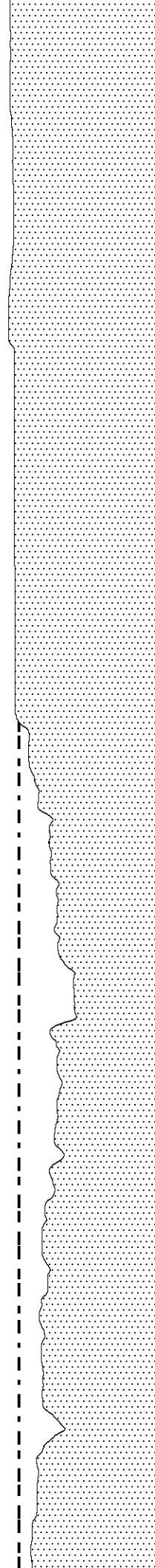
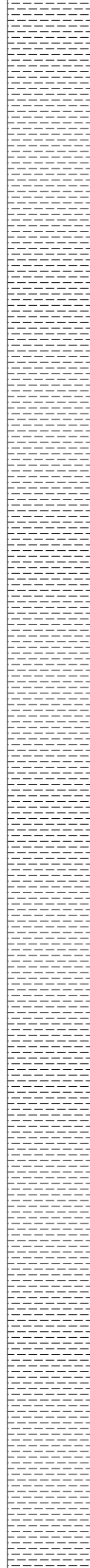
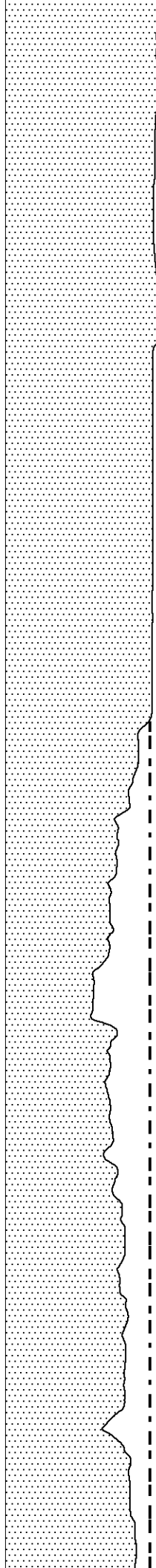
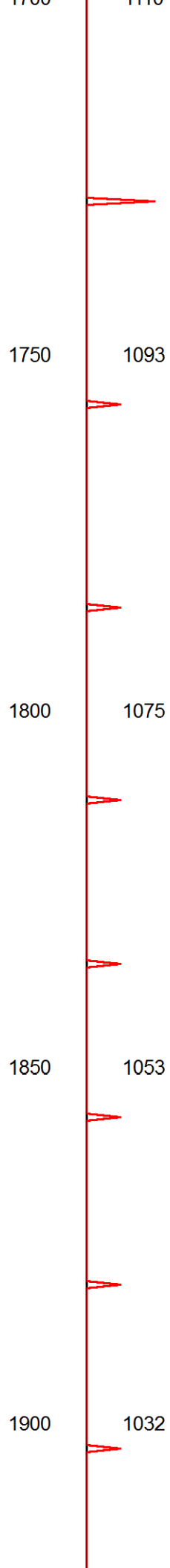
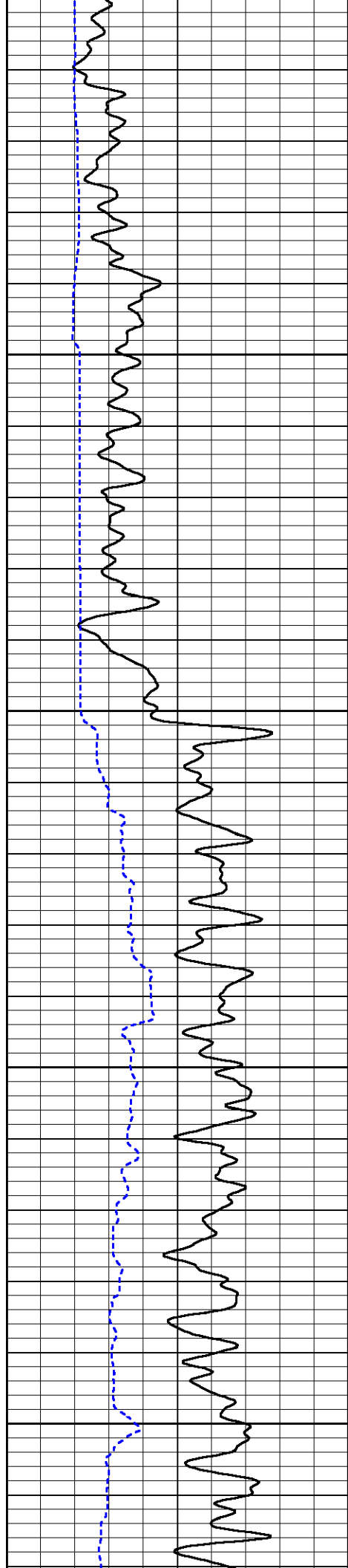
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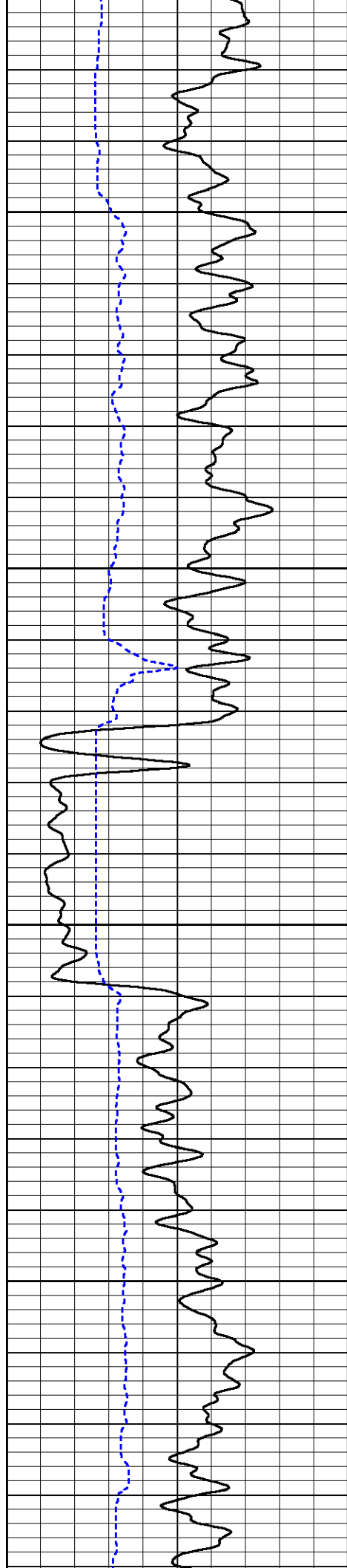
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685

675





1950

1012

2000

990

2050

970

2100

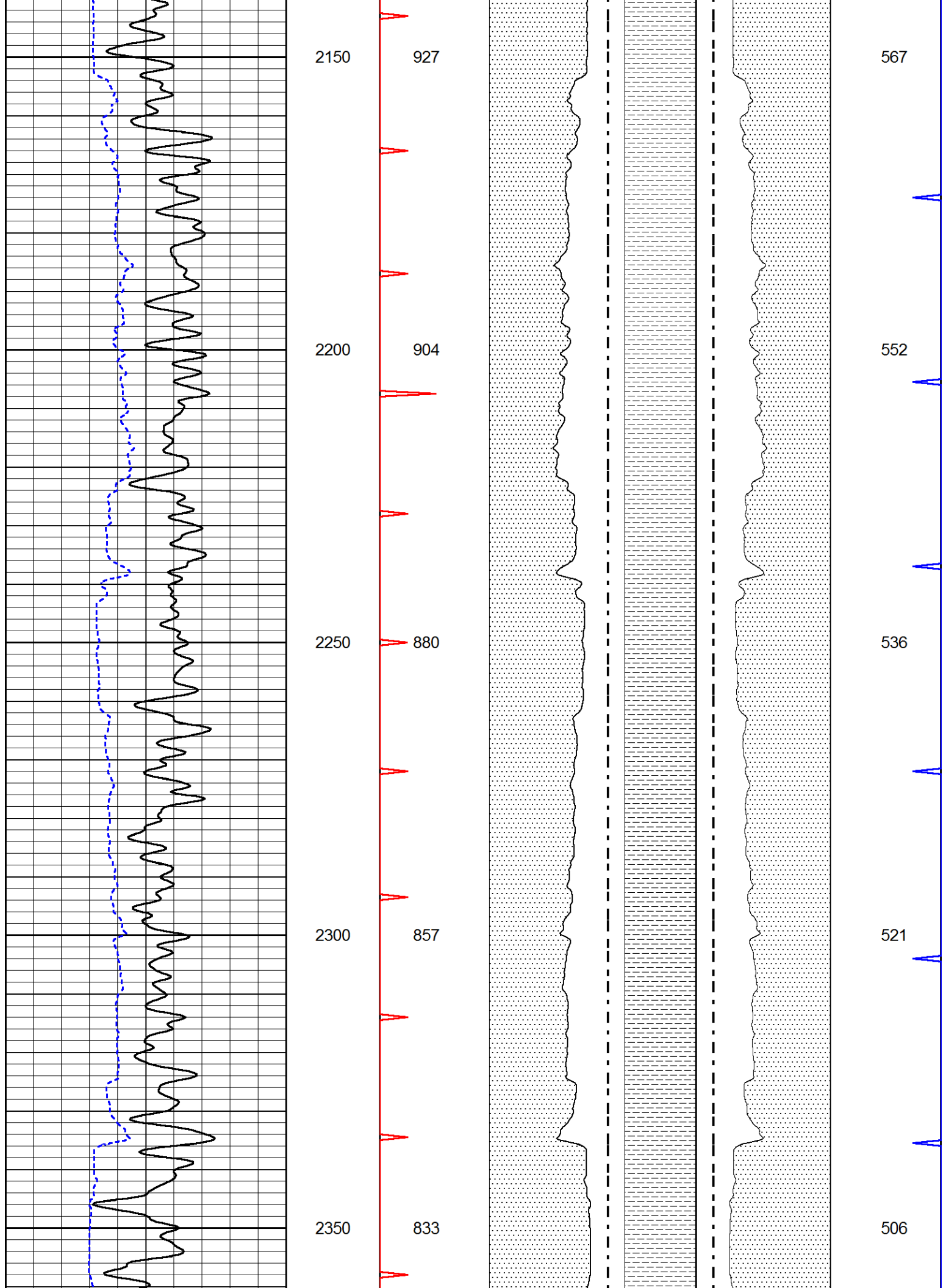
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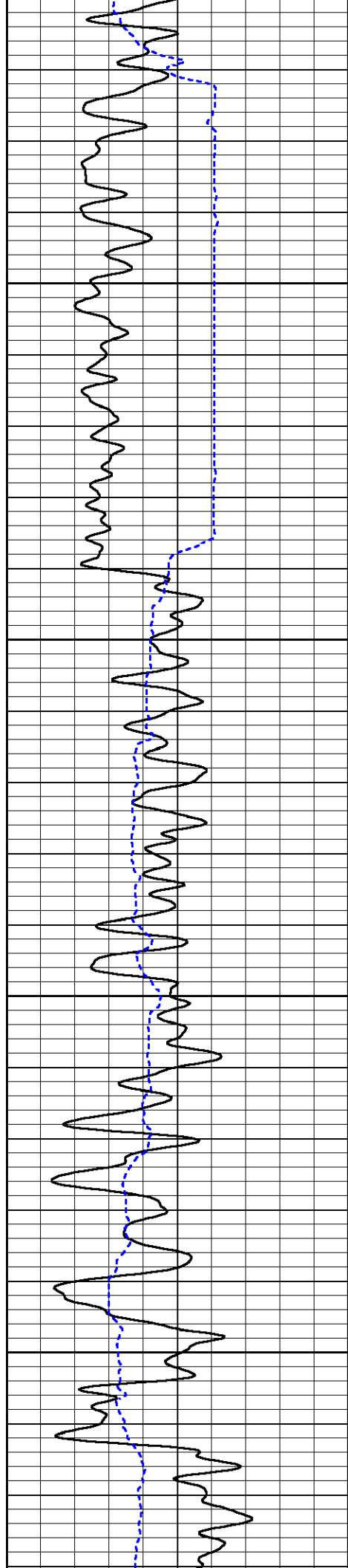
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605

593

580





2400

796

2450

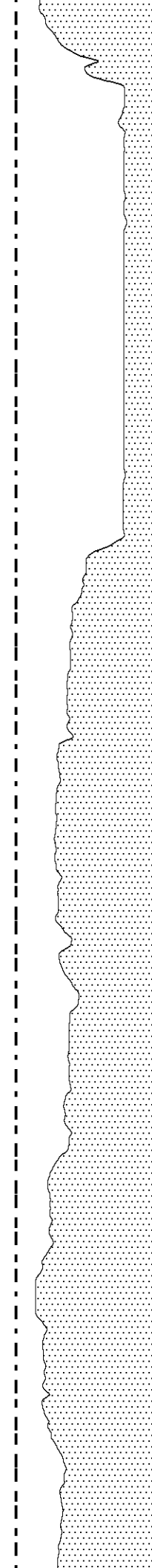
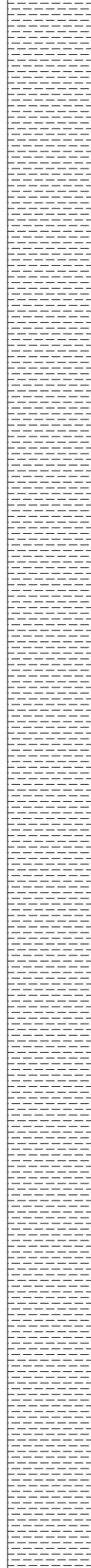
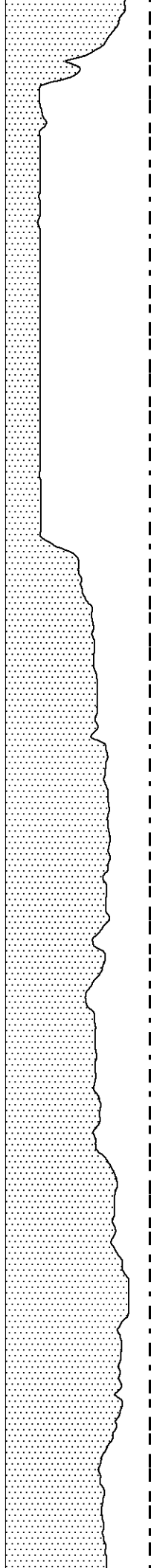
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2500

726

2550

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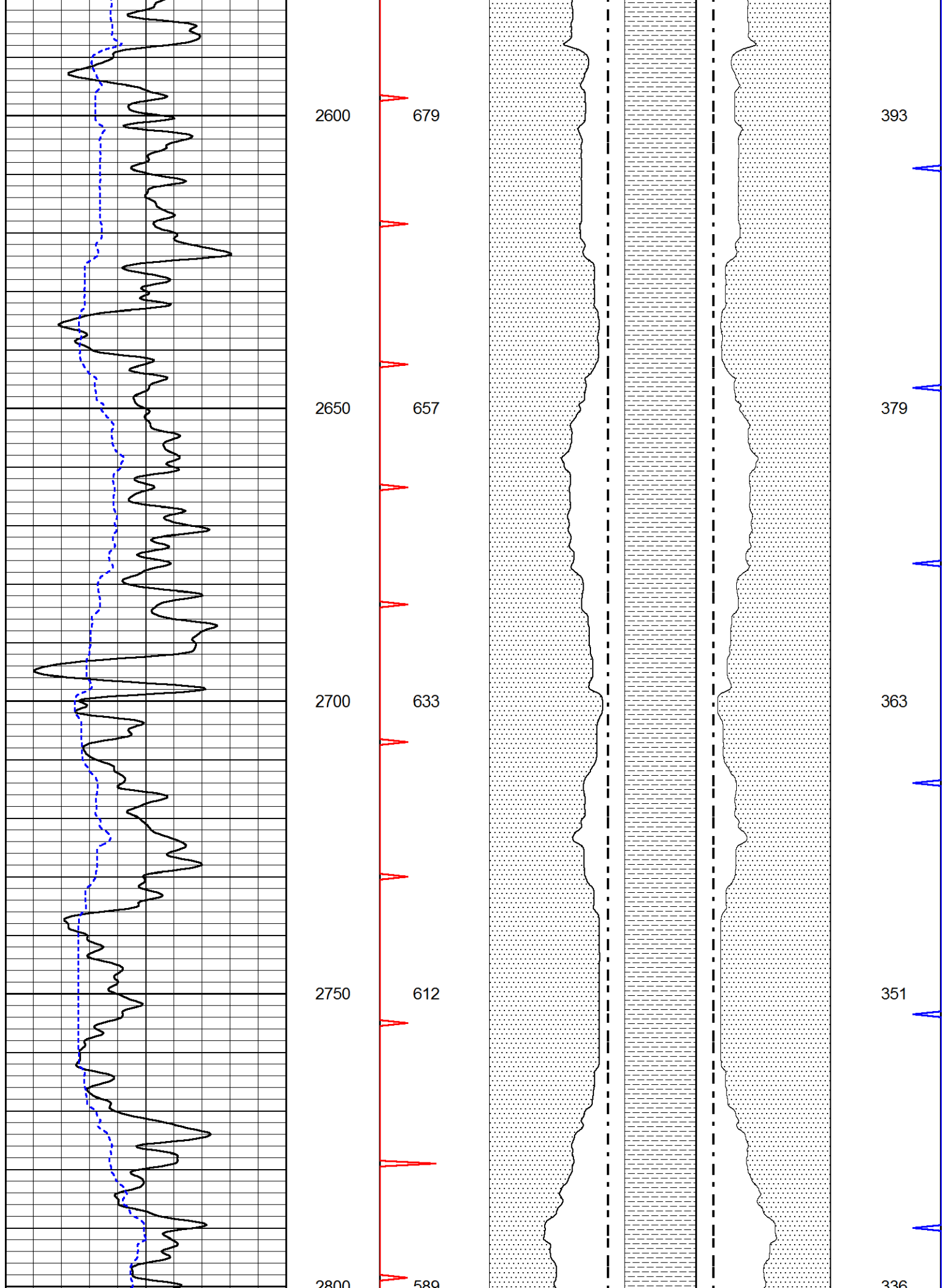
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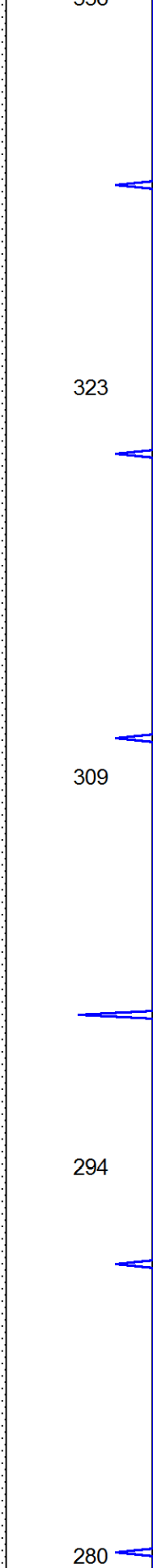
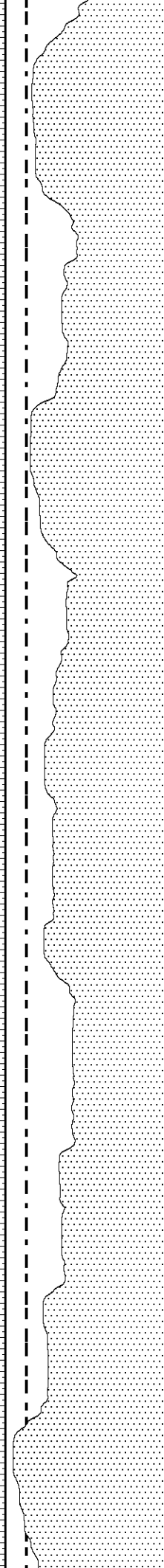
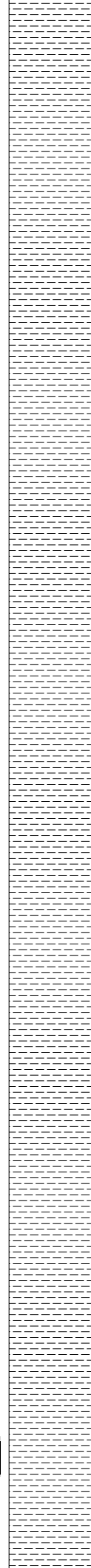
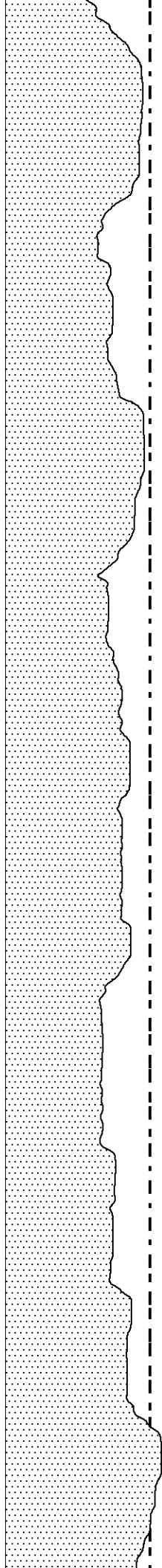
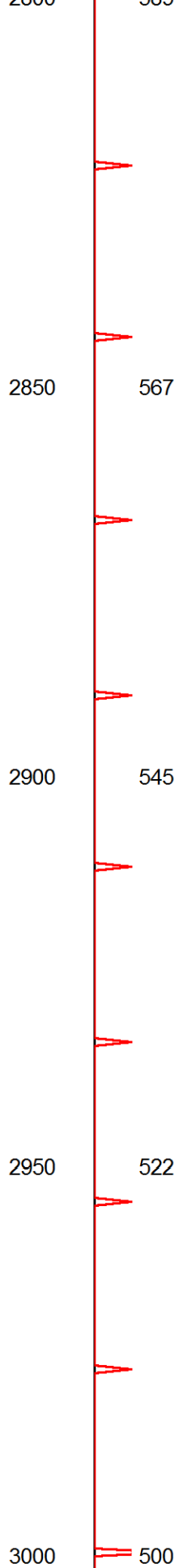
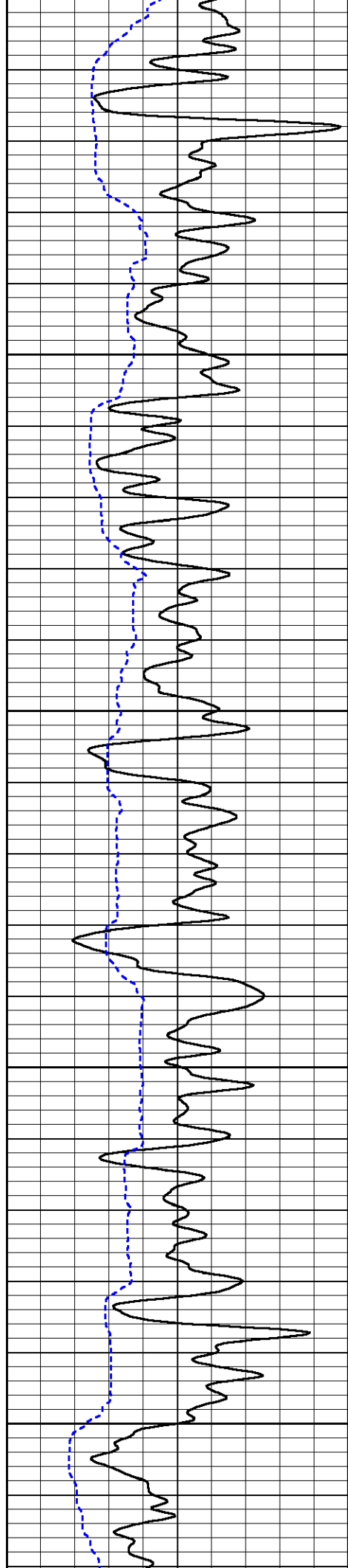
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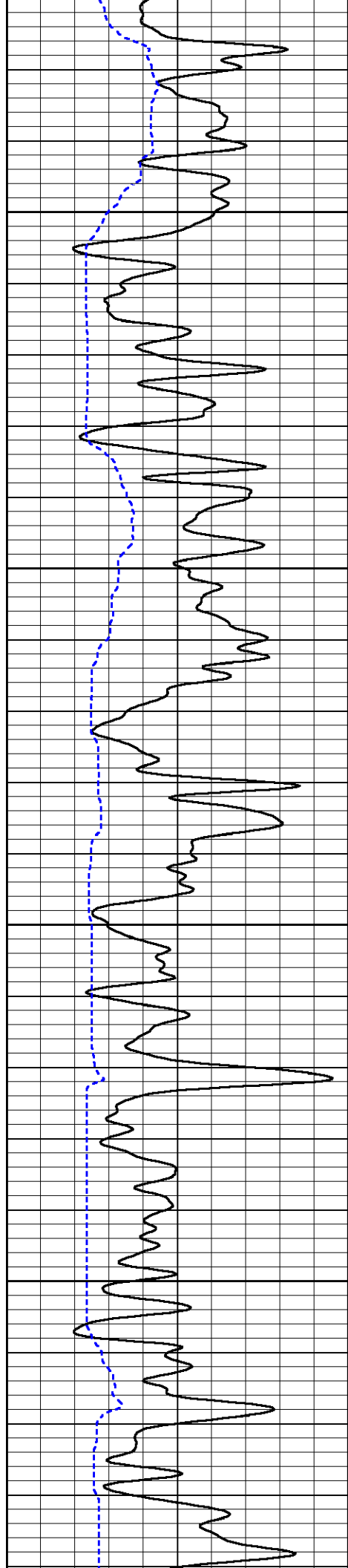
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3050

3100

3150

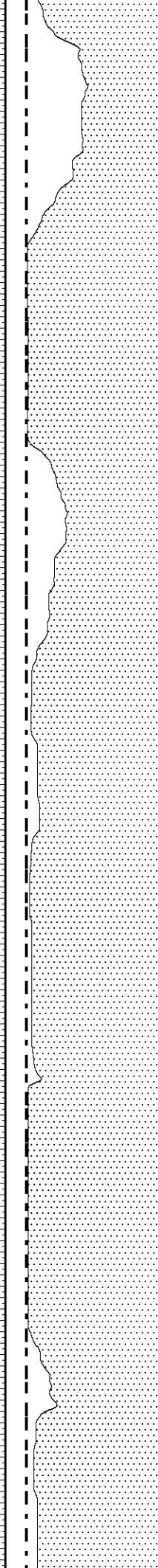
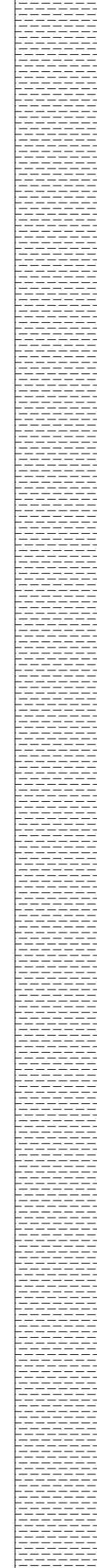
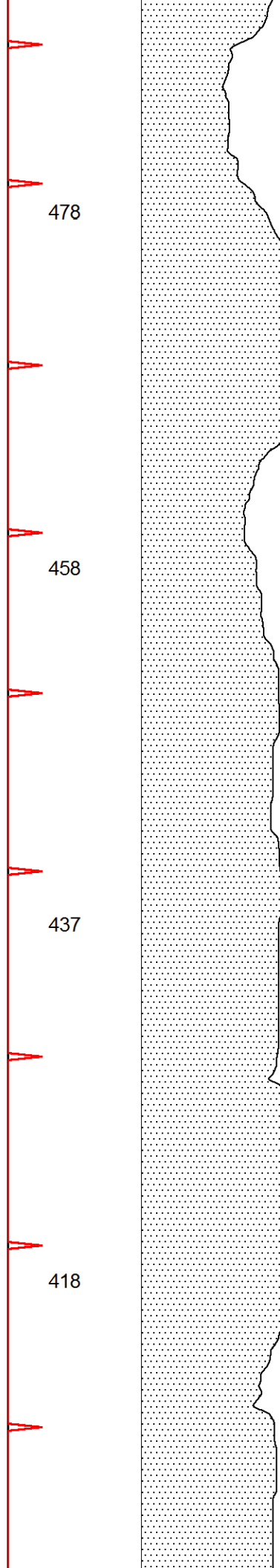
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458

437

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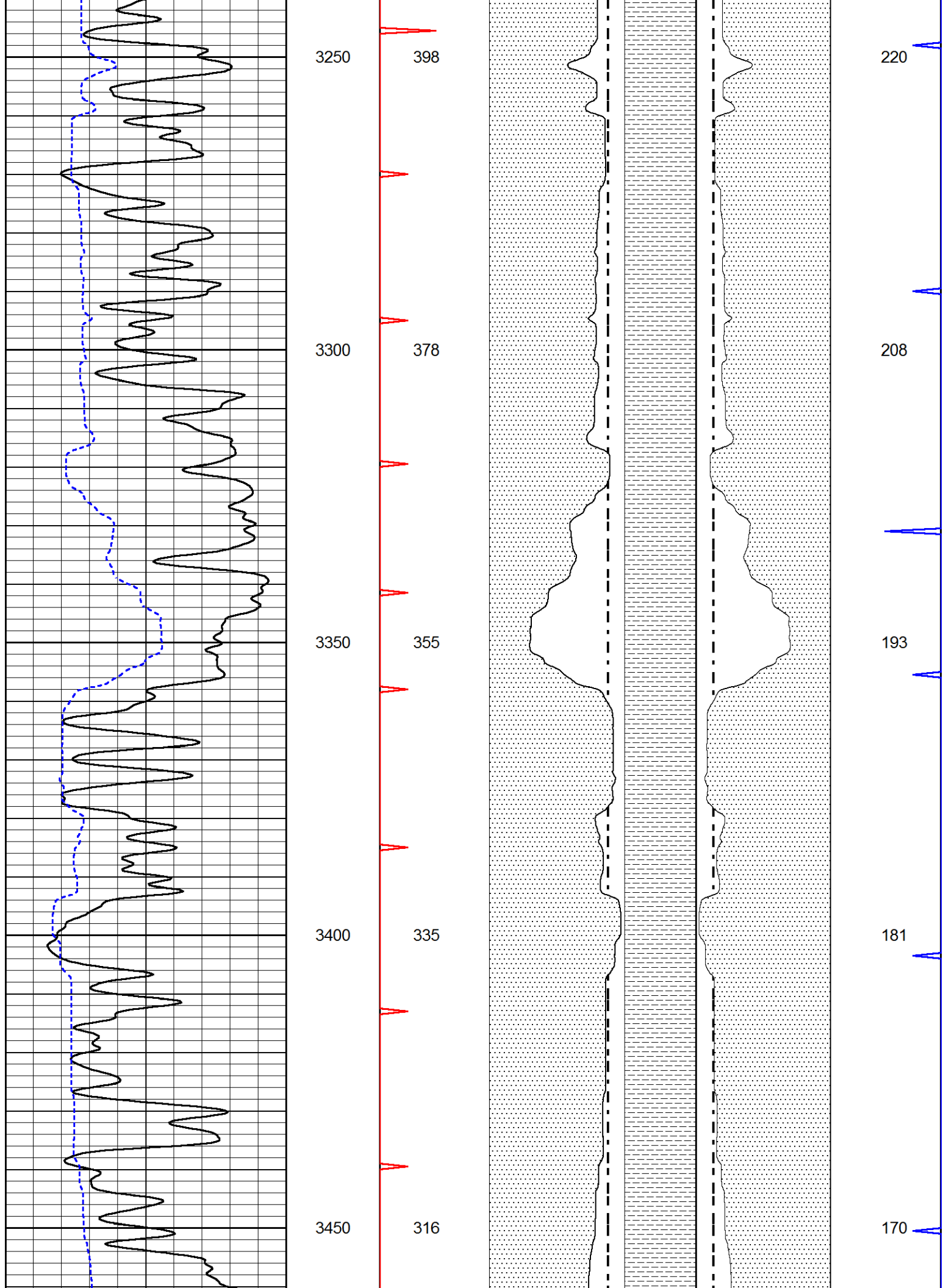
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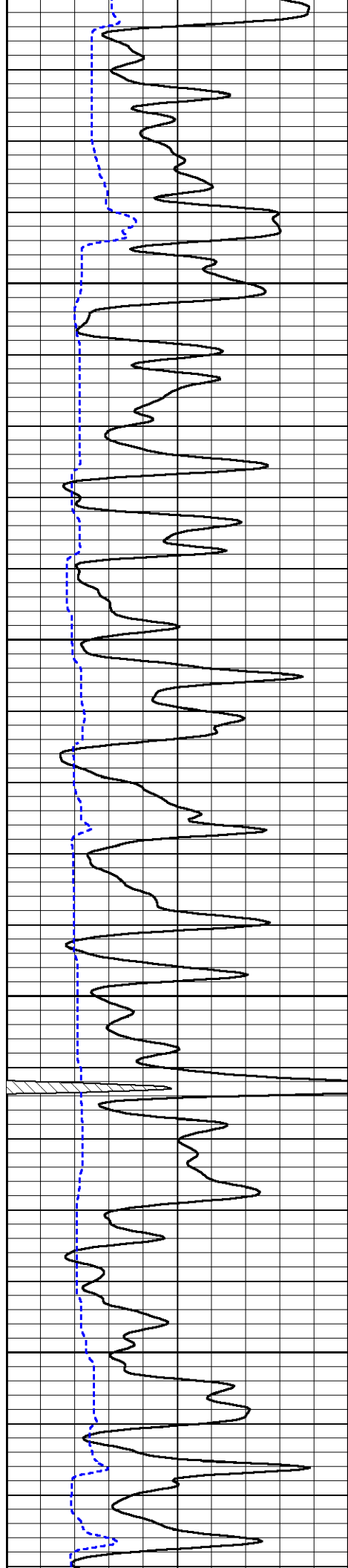
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3500

3550

3600

3650

296

278

261

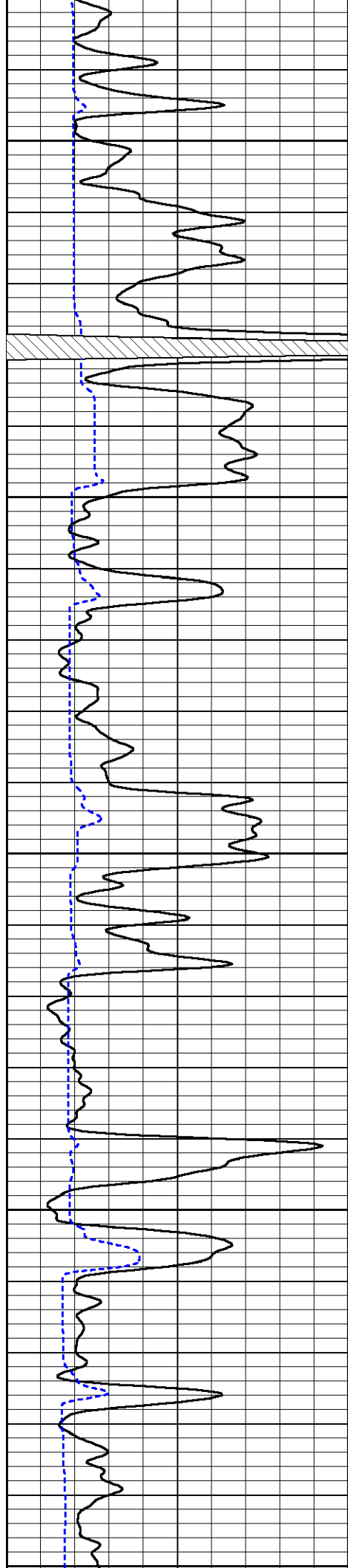
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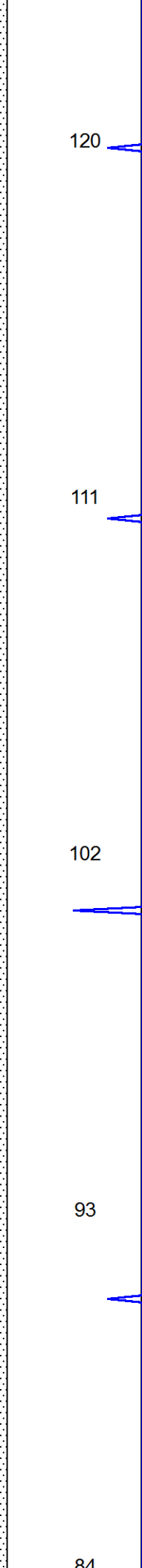
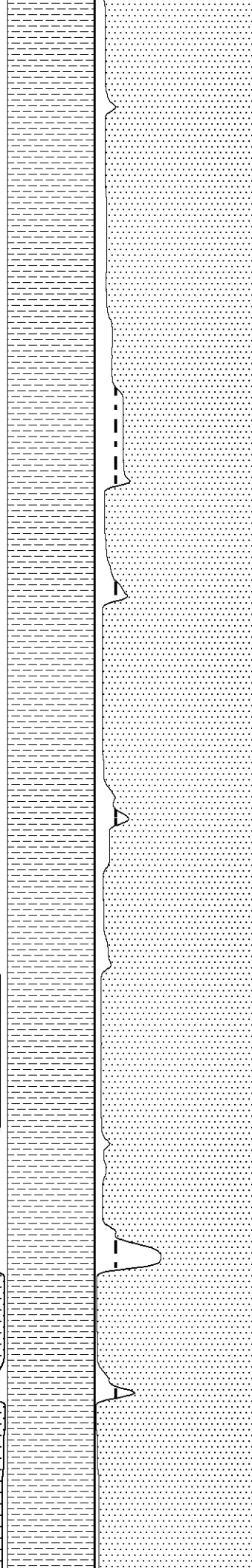
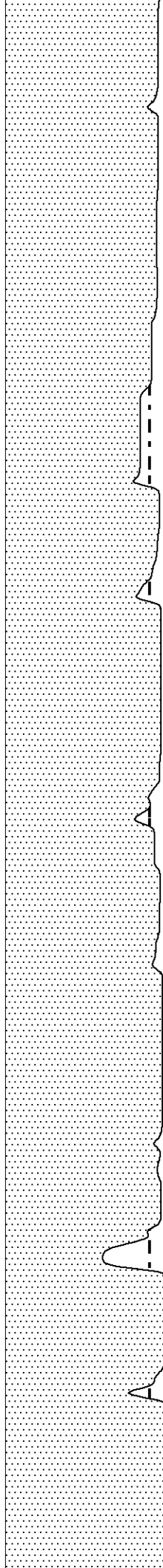
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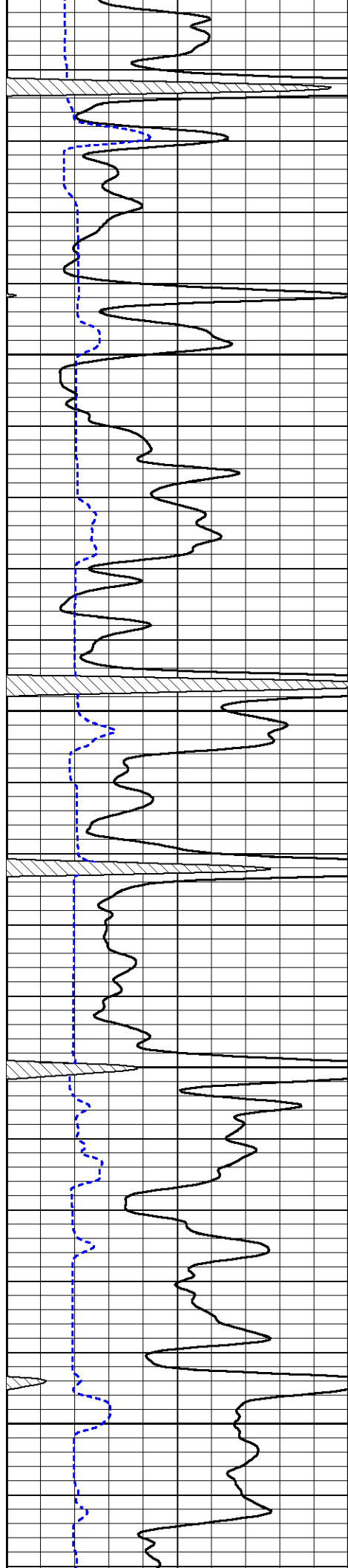
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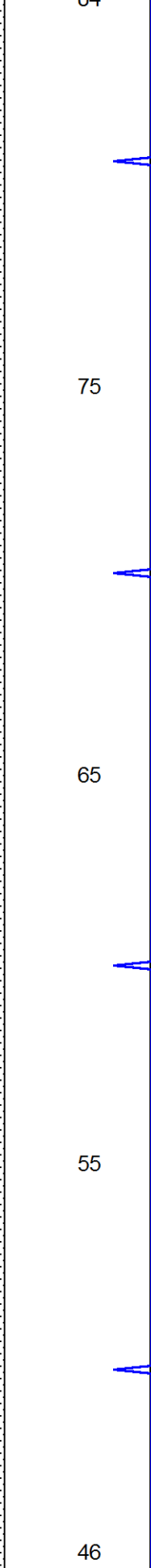
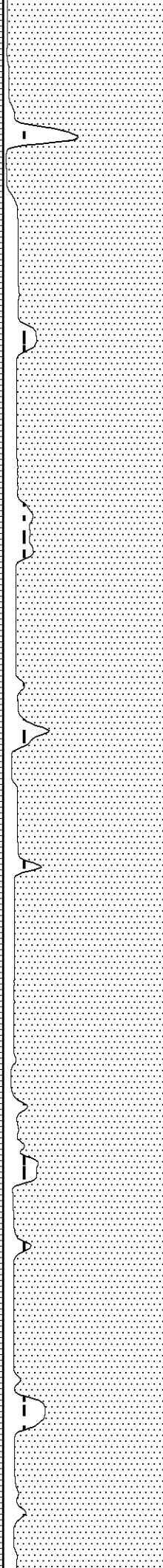
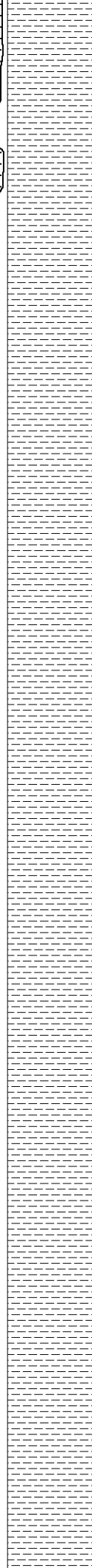
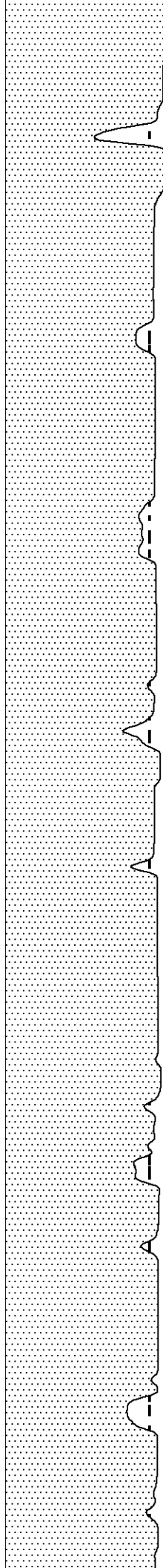
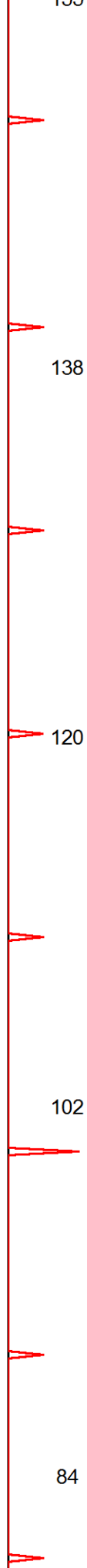


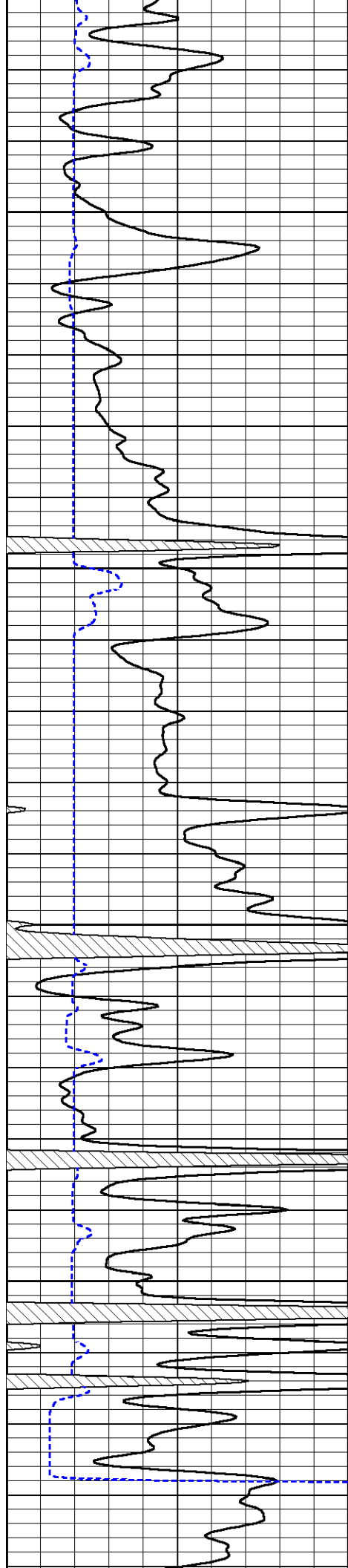
3700
3750
3800
3850
3900





3950
4000
4050
4100





4150

4200

4250

4300

66

49

31

14



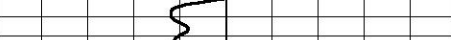
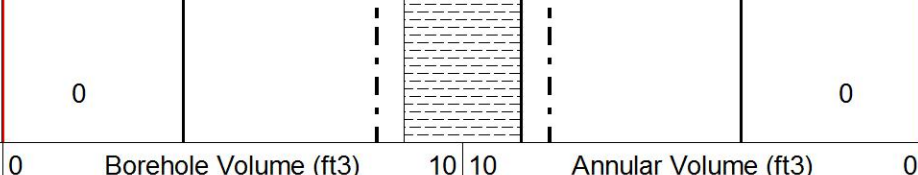
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27

18

8



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0	Gamma Ray (GAPI)	150		0	Borehole Volume (ft3)	10	10	Annular Volume (ft3)	0
150	GR (GAPI)	300							
6	DCAL (in)	16							