



**RADIAL BOND-GAMMA RAY
CCL-TEMP**

Country USA.

Company ANTERO RESOURCES
Well ANNE 2H
Field CANTON
County DODDRIDGE
State WV.

Country USA.

Location: API #: 47017063740000

Other Services

SEC	TWP	RGE	Elevation	1001'	Elevation
Permanent Datum	Log Measured From	K.B. 18'	Elevation	1001'	Elevation
Drilling Measured From	K.B. 18'	Elevation	1001'	Elevation	Elevation
Drilling Measured From	K.B. 18'	Elevation	1001'	Elevation	Elevation

Company ANTERO RESOURCES
 Well ANNE 2H
 Field CANTON
 County DODDRIDGE
 State WV.

Date	10-25-14						
Run Number	ONE						
Depth Driller							
Depth Logger	6900'						
Bottom Logged Interval	6899'						
Top Log Interval	SURFACE						
Open Hole Size							
Type Fluid	WATER						
Density / Viscosity							
Max. Recorded Temp.	126						
Estimated Cement Top	2026'						
Time Well Ready	11:35						
Time Logger on Bottom	12:00						
Equipment Number	5982						
Location	CLARKSBURG, WV.						
Recorded By	E BUTCHER						
Witnessed By	JEREMY KILLION						
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String							
Prot. String							
Production String	5.5"	231 BS.	SURFACE	14.524'			
Liner							

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 STRC OILFIELD TECHNOLOGIES
LOG MEASURED FROM K.B.18'

Calibration Report

Database File: anne 2h.db
Dataset Pathname: pass3
Dataset Creation: Sat Oct 25 12:07:48 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	275	
Tool Model:	Probe	
Performed:	Wed Aug 27 17:14:40 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1404-143_5.5INCH	
Tool Model:	Probe275T	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	2787.000	ft

Master Calibration, performed Sat Oct 25 09:56:15 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.974	1.000	71.921	73.795	0.046
CAL	0.011	0.010				
5'	0.012	0.927	1.000	71.921	77.469	0.099
SUM						
S1	0.016	1.074	0.000	100.000	94.518	-1.556
S2	0.010	1.067	0.000	100.000	94.644	-0.980
S3	0.010	0.246	0.000	100.000	423.534	-4.100
S4	0.010	1.021	0.000	100.000	98.977	-1.028
S5	0.009	1.079	0.000	100.000	93.485	-0.839
S6	0.009	1.148	0.000	100.000	87.753	-0.762
S7	0.008	1.193	0.000	100.000	84.445	-0.709
S8	0.010	1.174	0.000	100.000	85.926	-0.892

Internal Reference Calibration, performed Fri Aug 15 18:12:35 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.011	0.010	1.000	0.000

Air Zero Calibration, performed Wed Aug 27 17:44:29 2014:

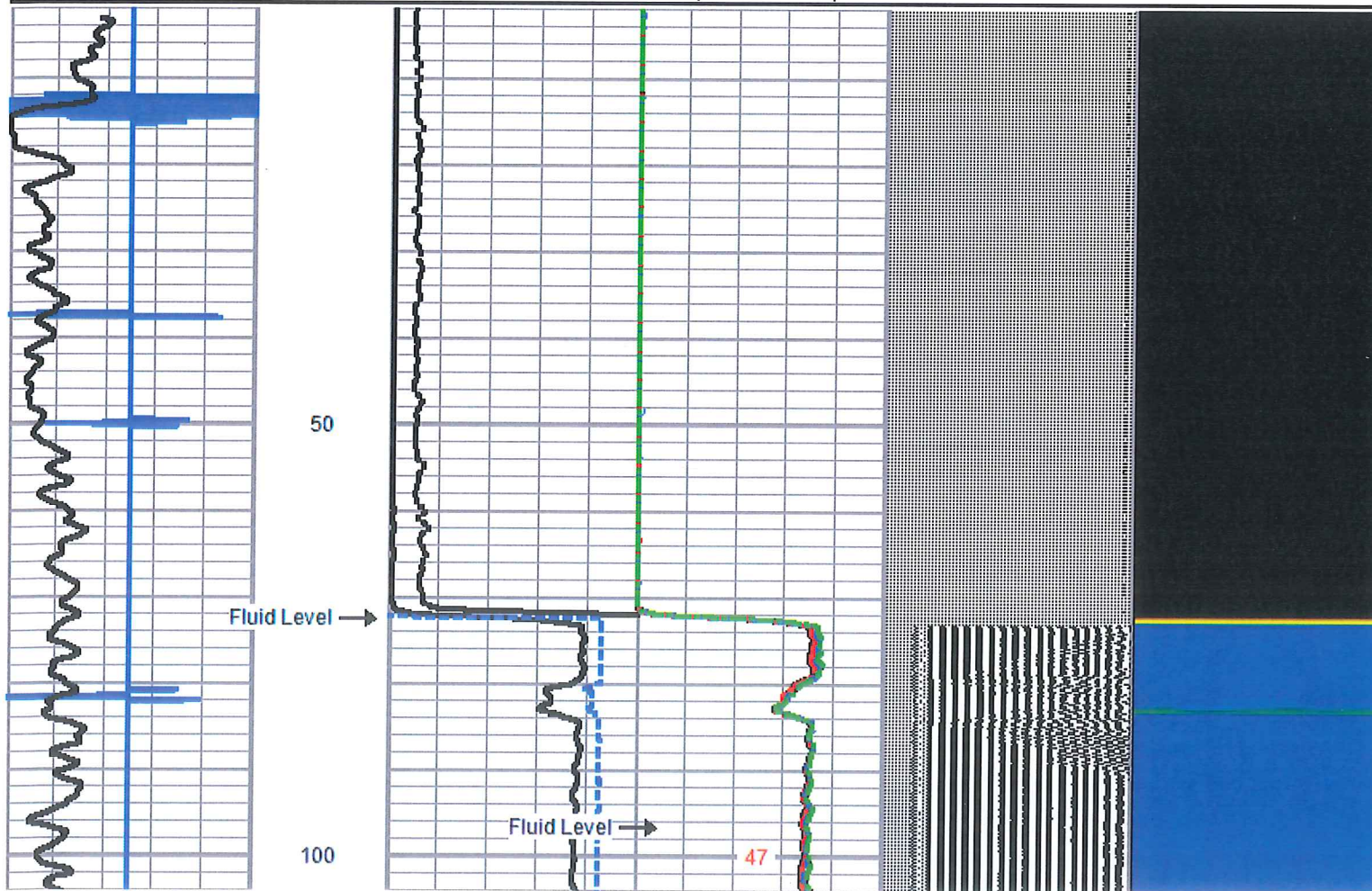
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

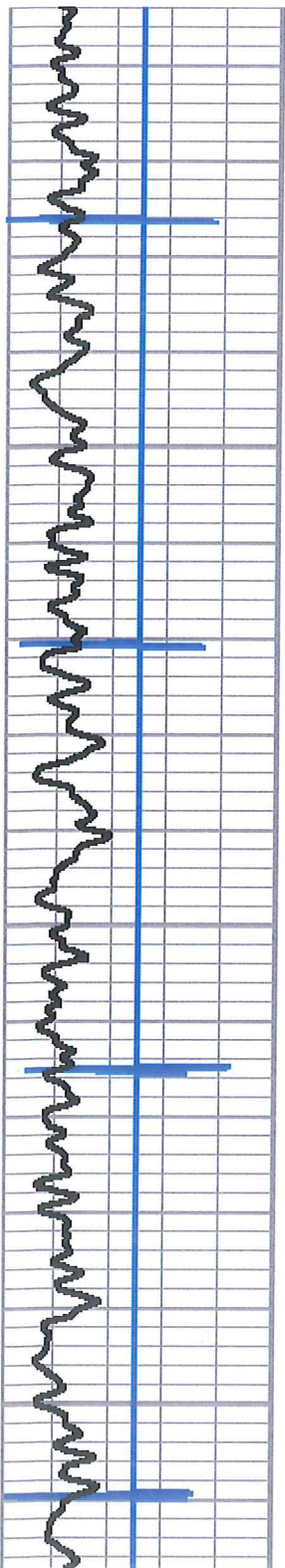


MAIN LOG

Database File: anne 2h.db
 Dataset Pathname: pass3
 Presentation Format: scbl02
 Dataset Creation: Sat Oct 25 12:07:48 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

-2	CCL	2	0	AMP (mV)	100	0	AMPS1	150	200	VDL	1200	1	Cement Map	8
0	GR (GAPI)	200	0	AMPx10 (mV)	10	0	AMPS2	150				3		95
200	GR (GAPI)	400	350	TT (usec)	250	0	AMPS3	150						
						0	AMPS4	150						
						0	AMPS5	150						
						0	AMPS6	150						
						0	AMPS7	150						
						0	AMPS8	150						
							TEMP							
							(degF)							

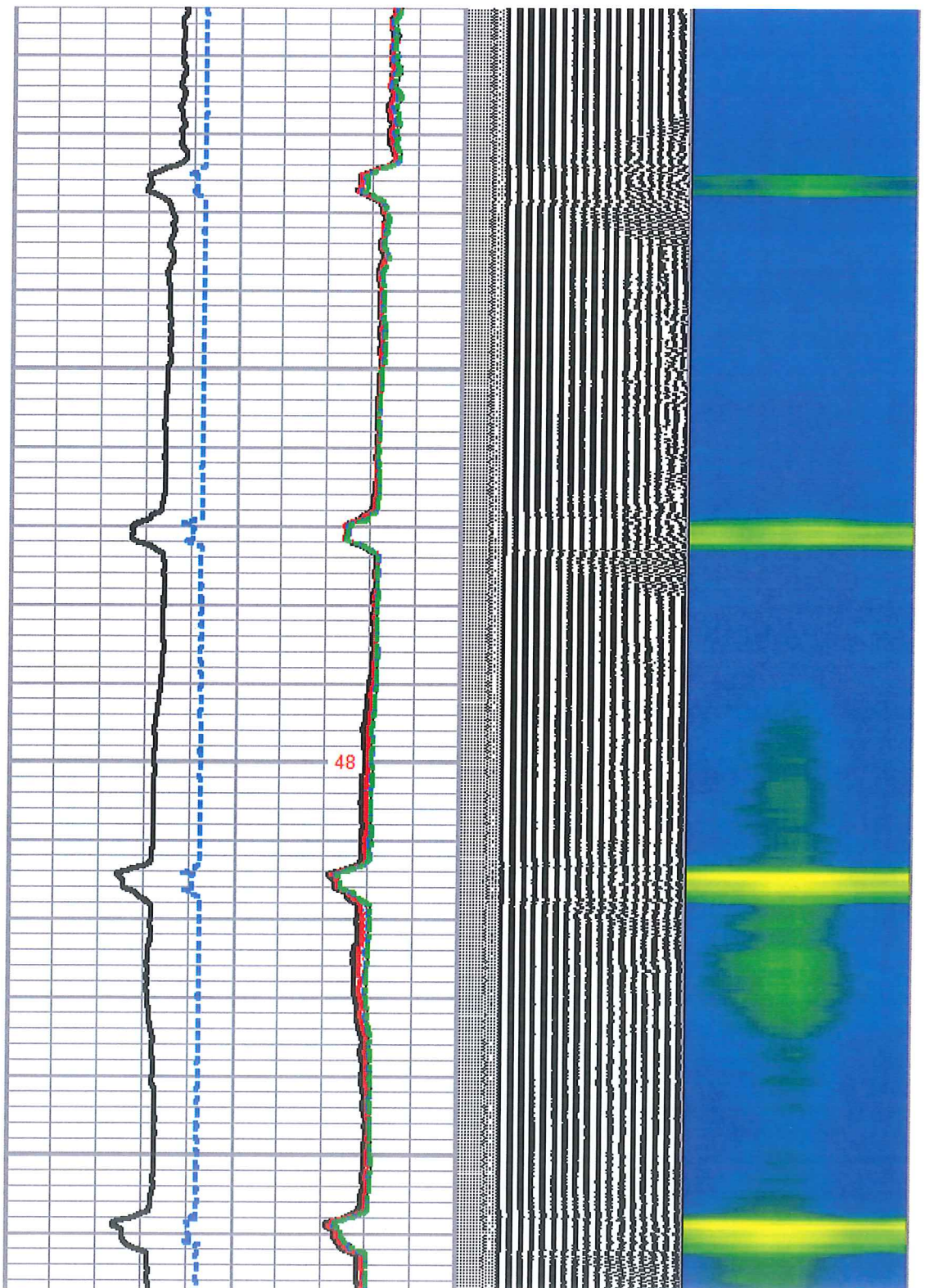


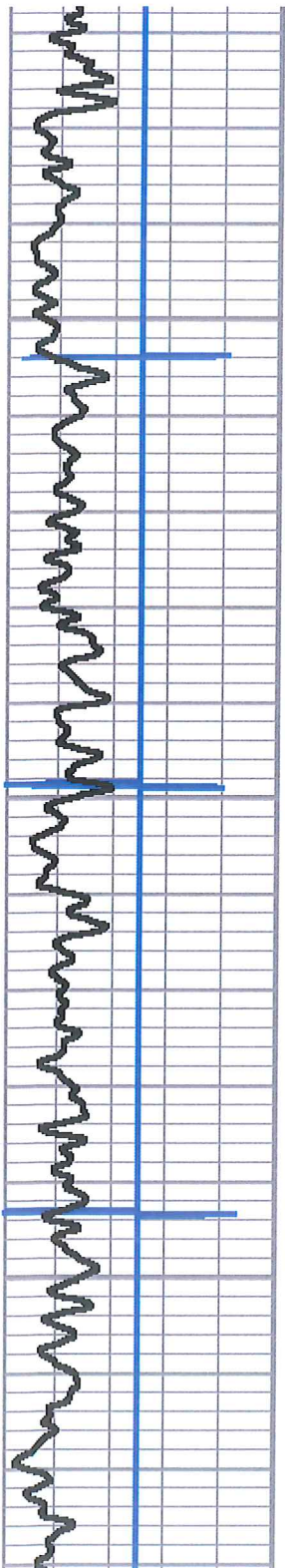


150

200

250

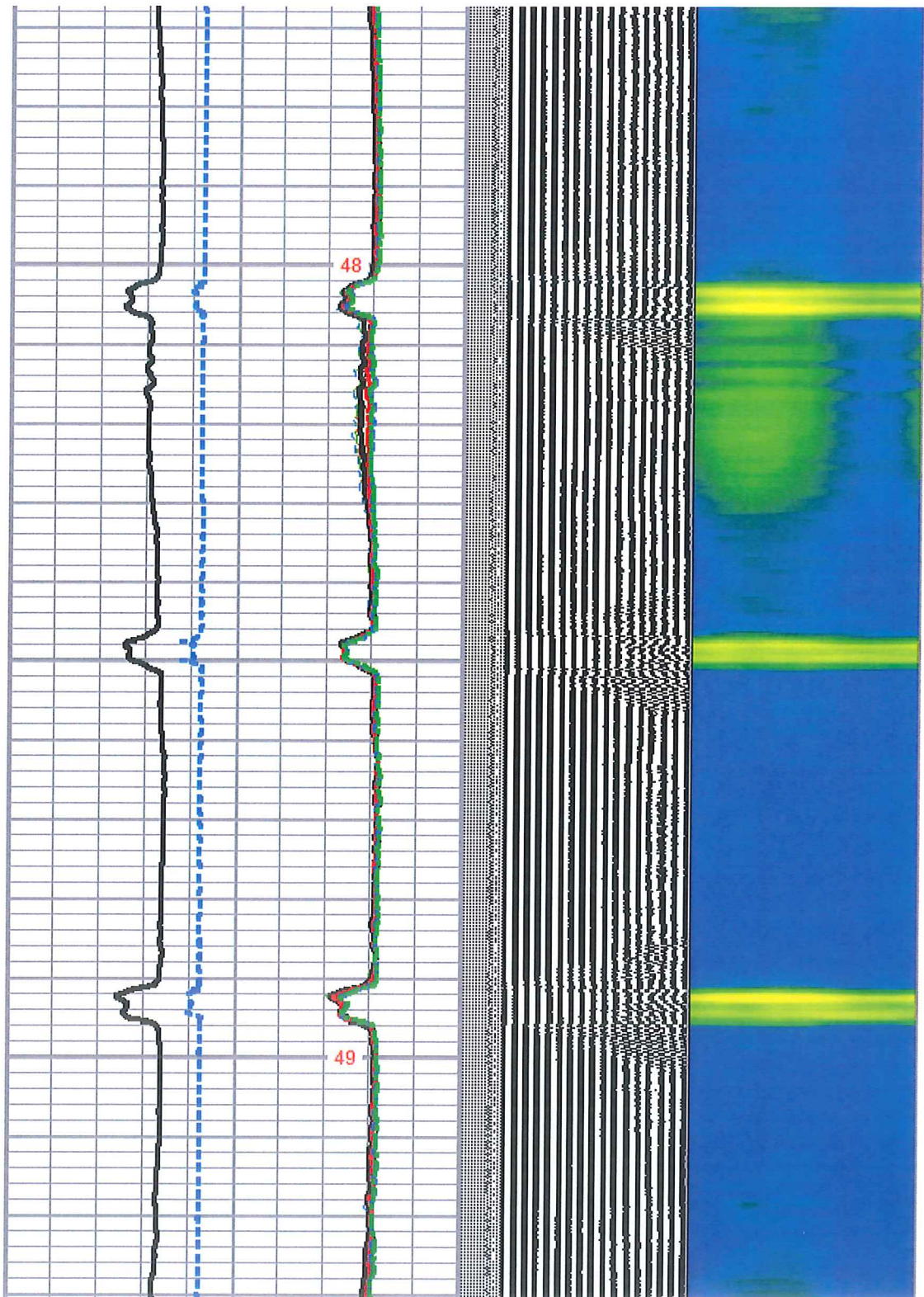


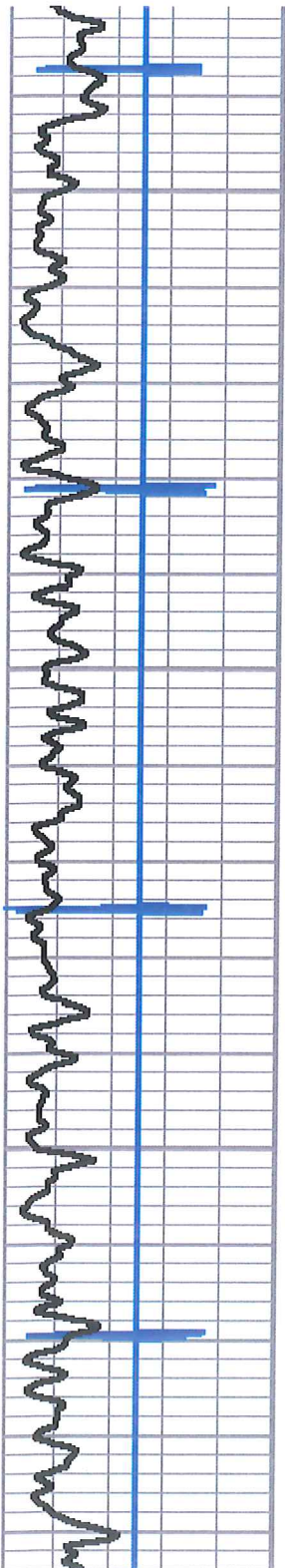


300

350

400

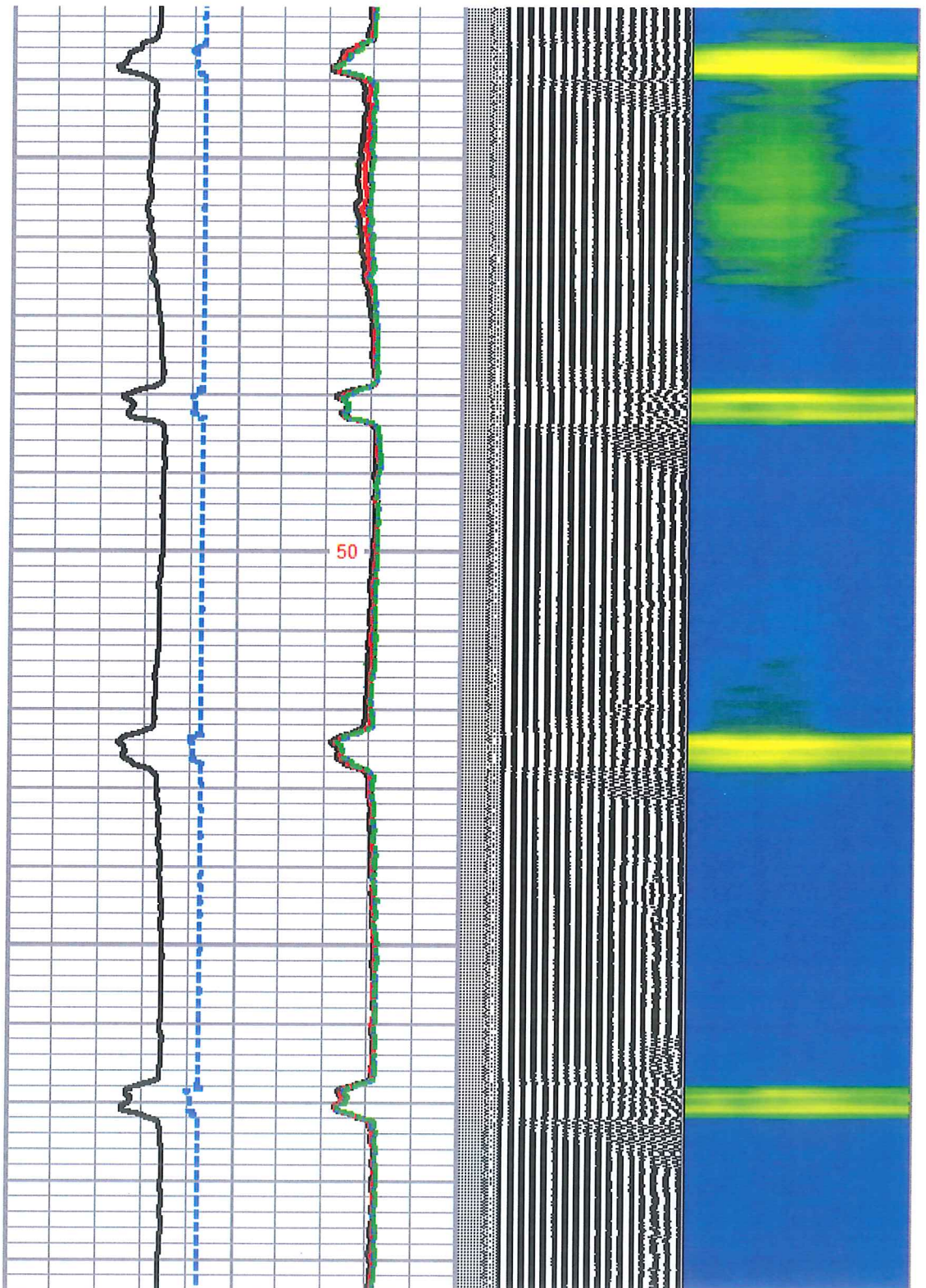


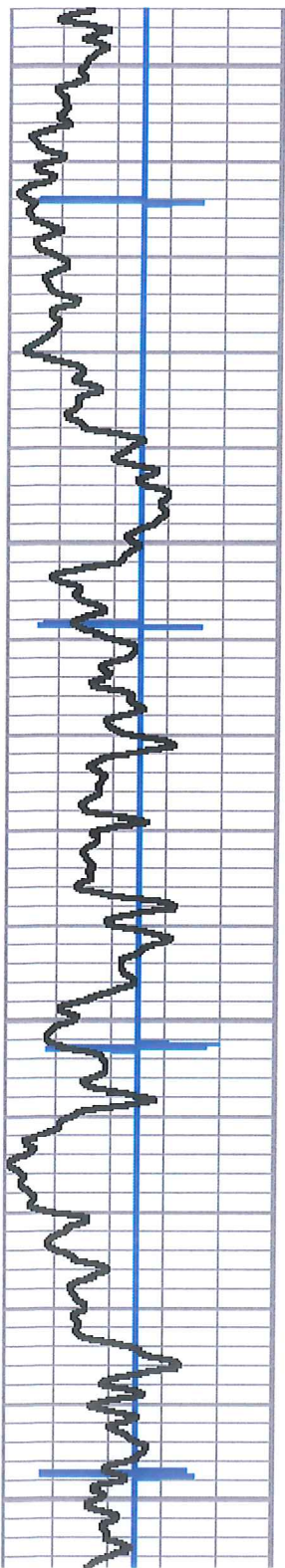


450

500

550



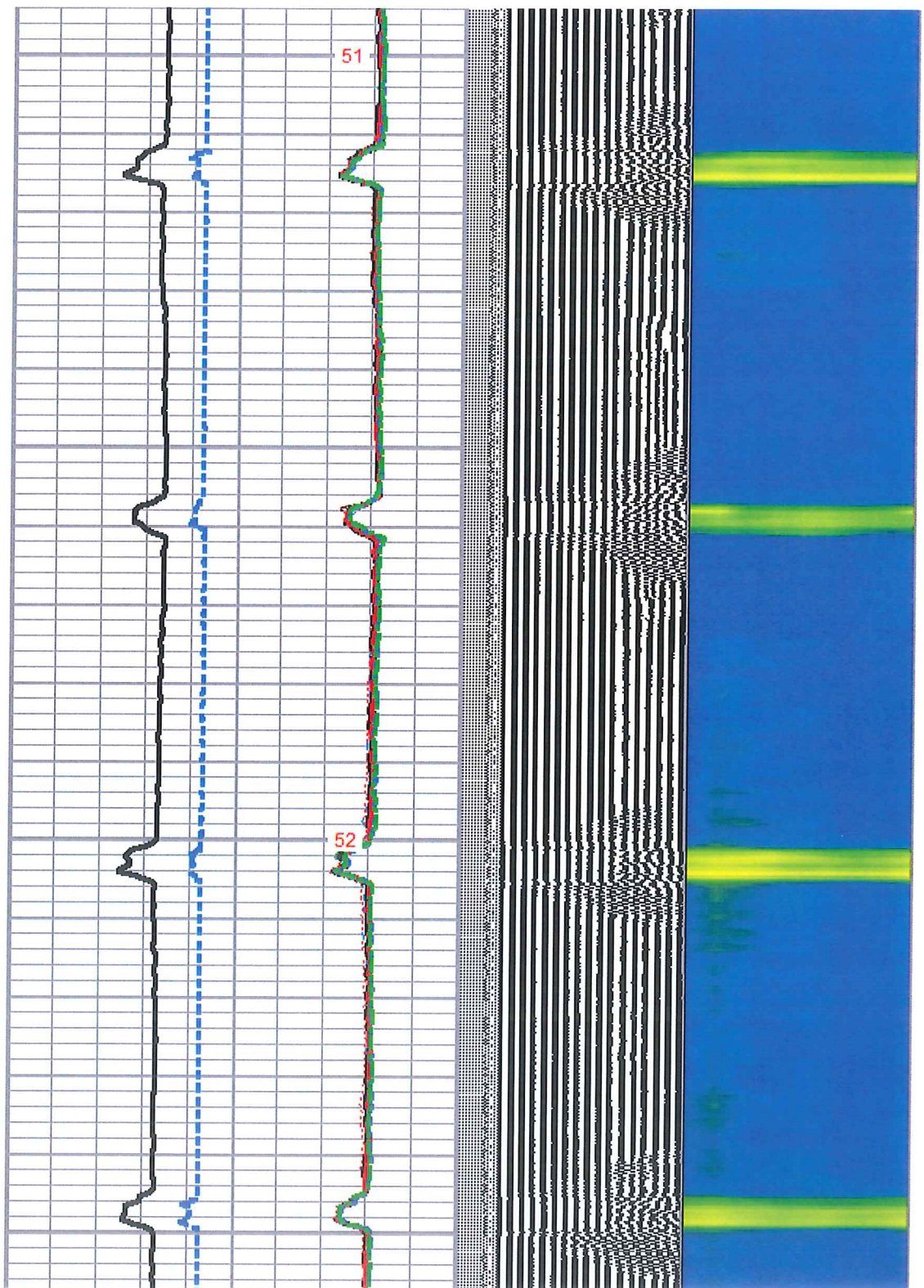


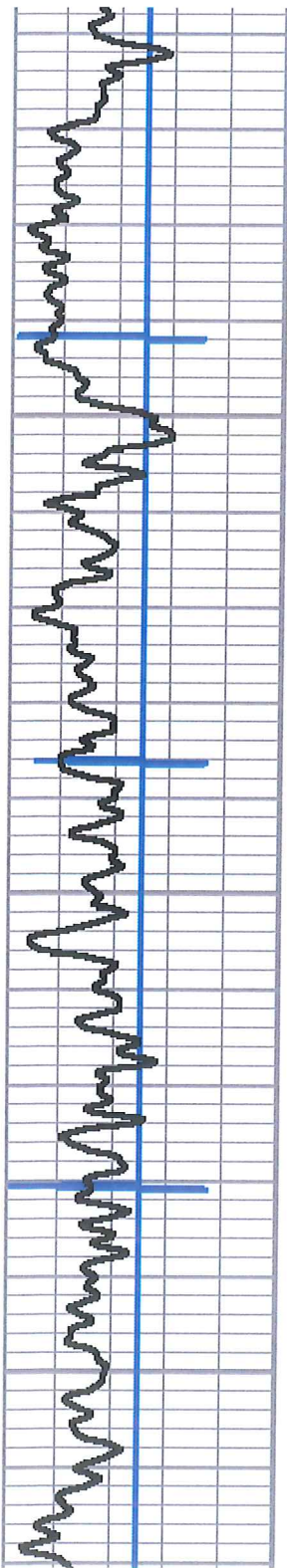
600

650

700

750

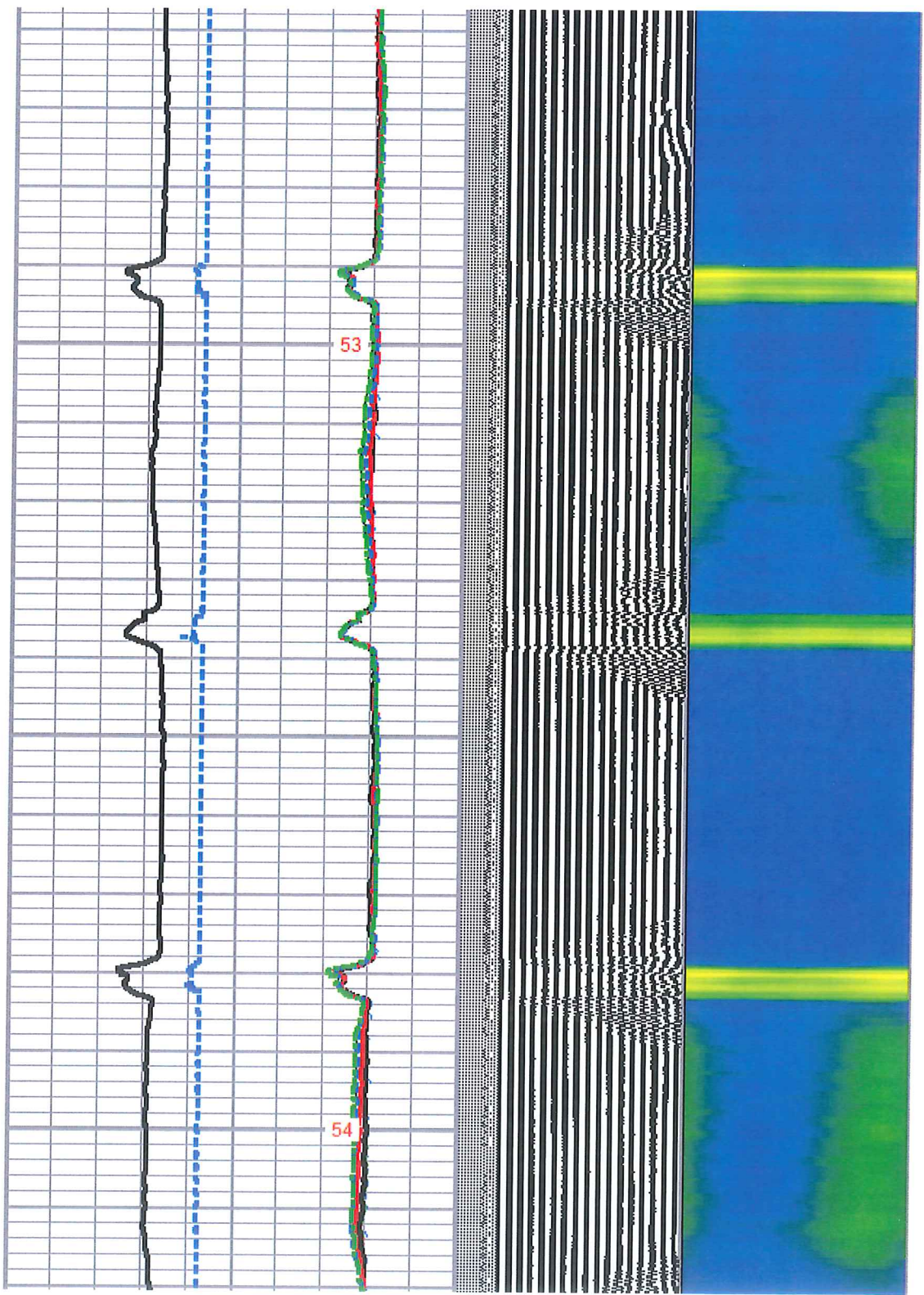


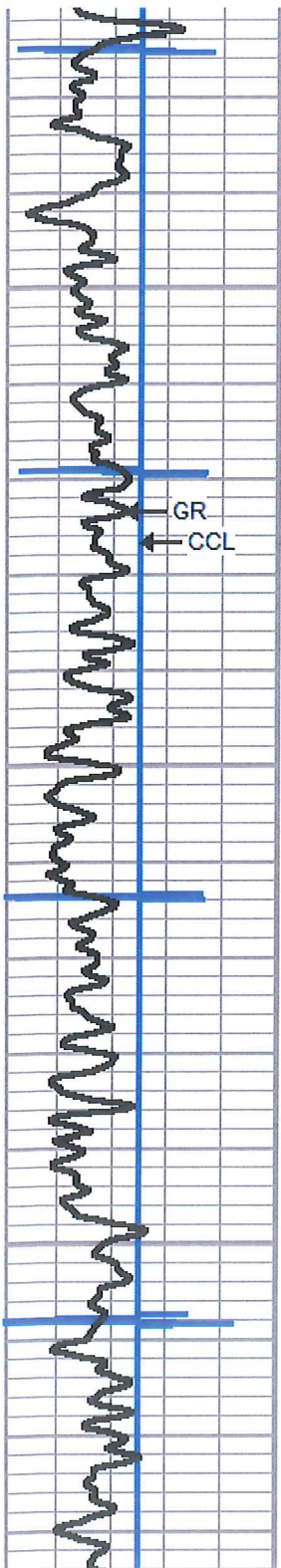


800

850

900



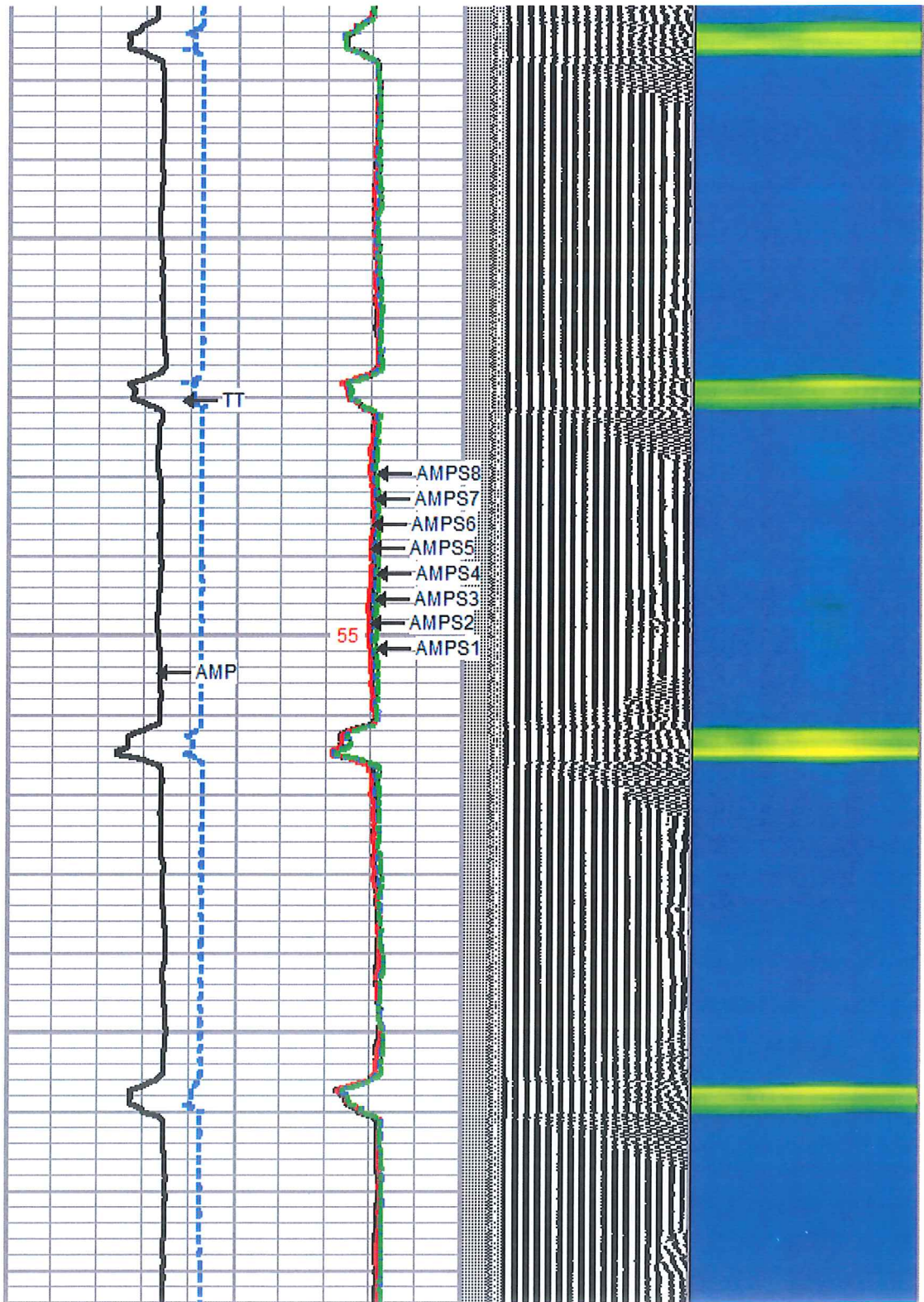


950

1000

1050

GR
CCL

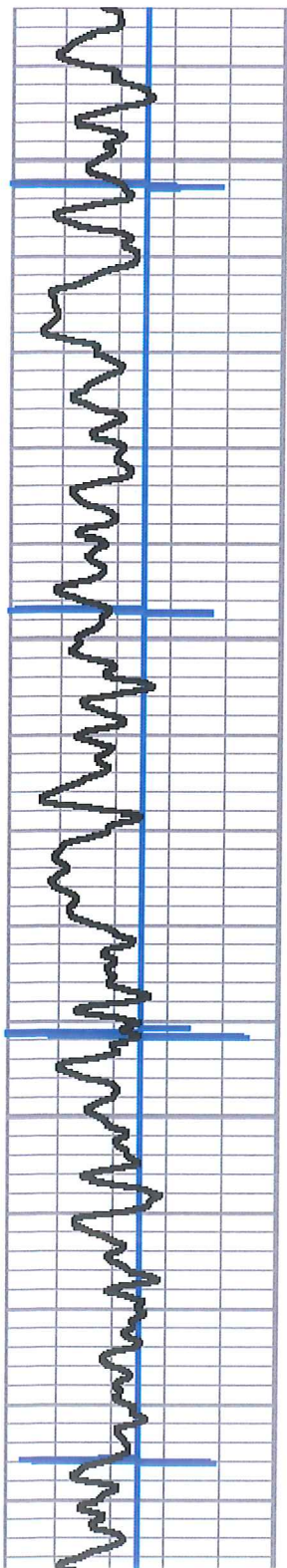


TT

AMP

55

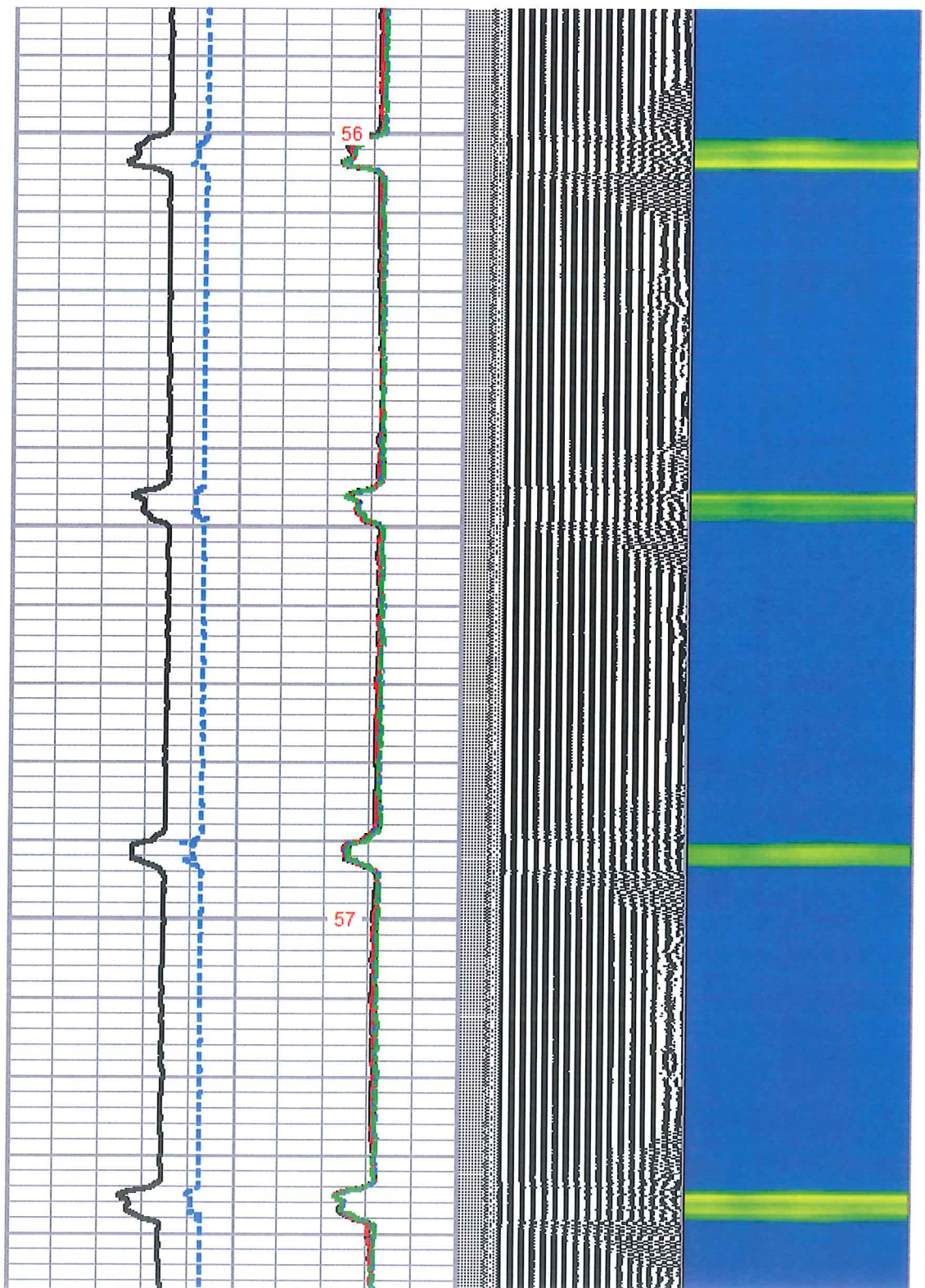
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AMPS5
AMPS4
AMPS3
AMPS2
AMPS1

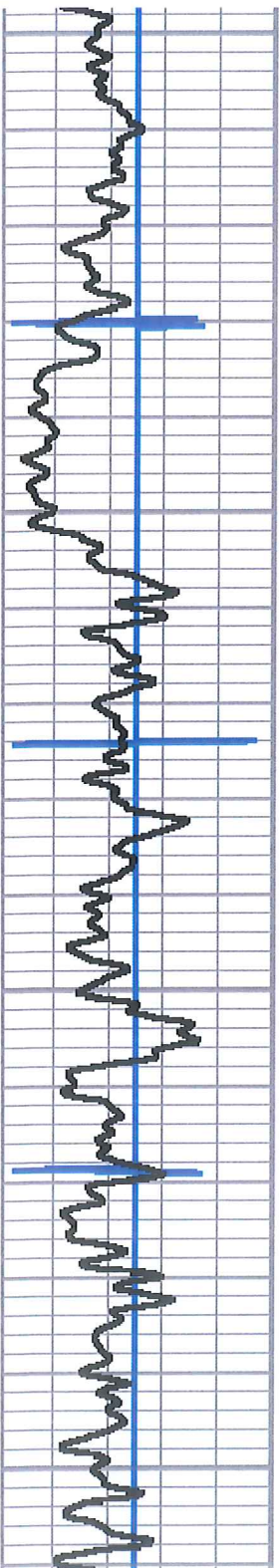


1100

1150

1200



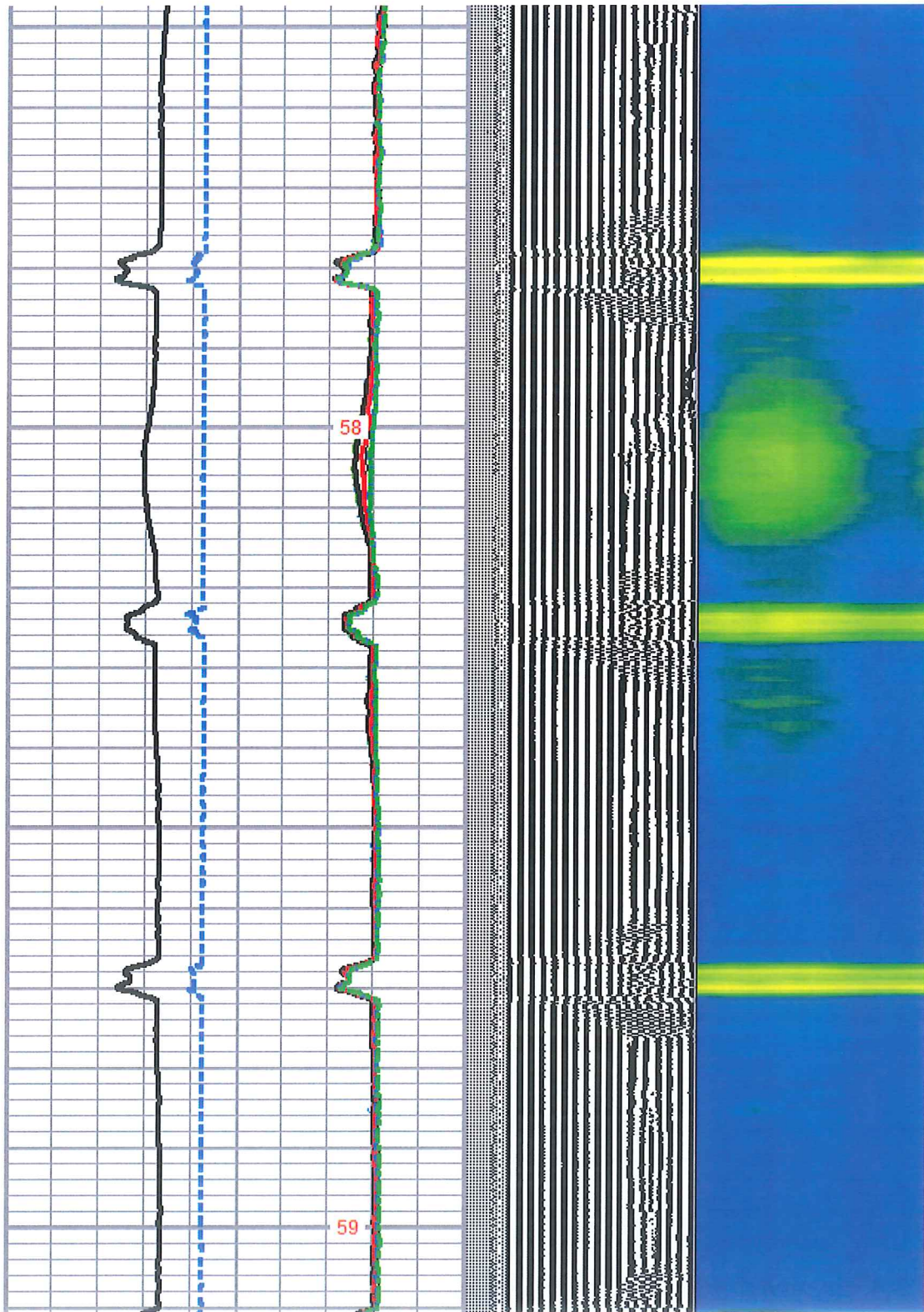


1250

1300

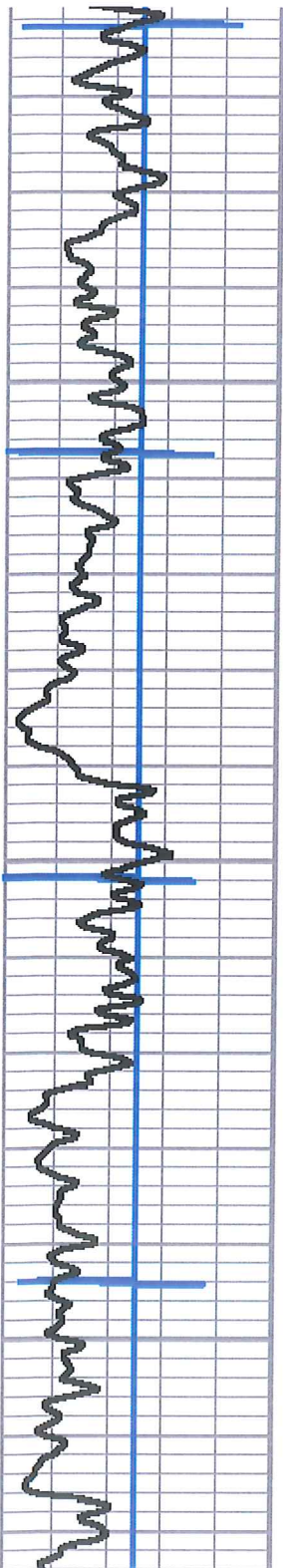
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1400



58

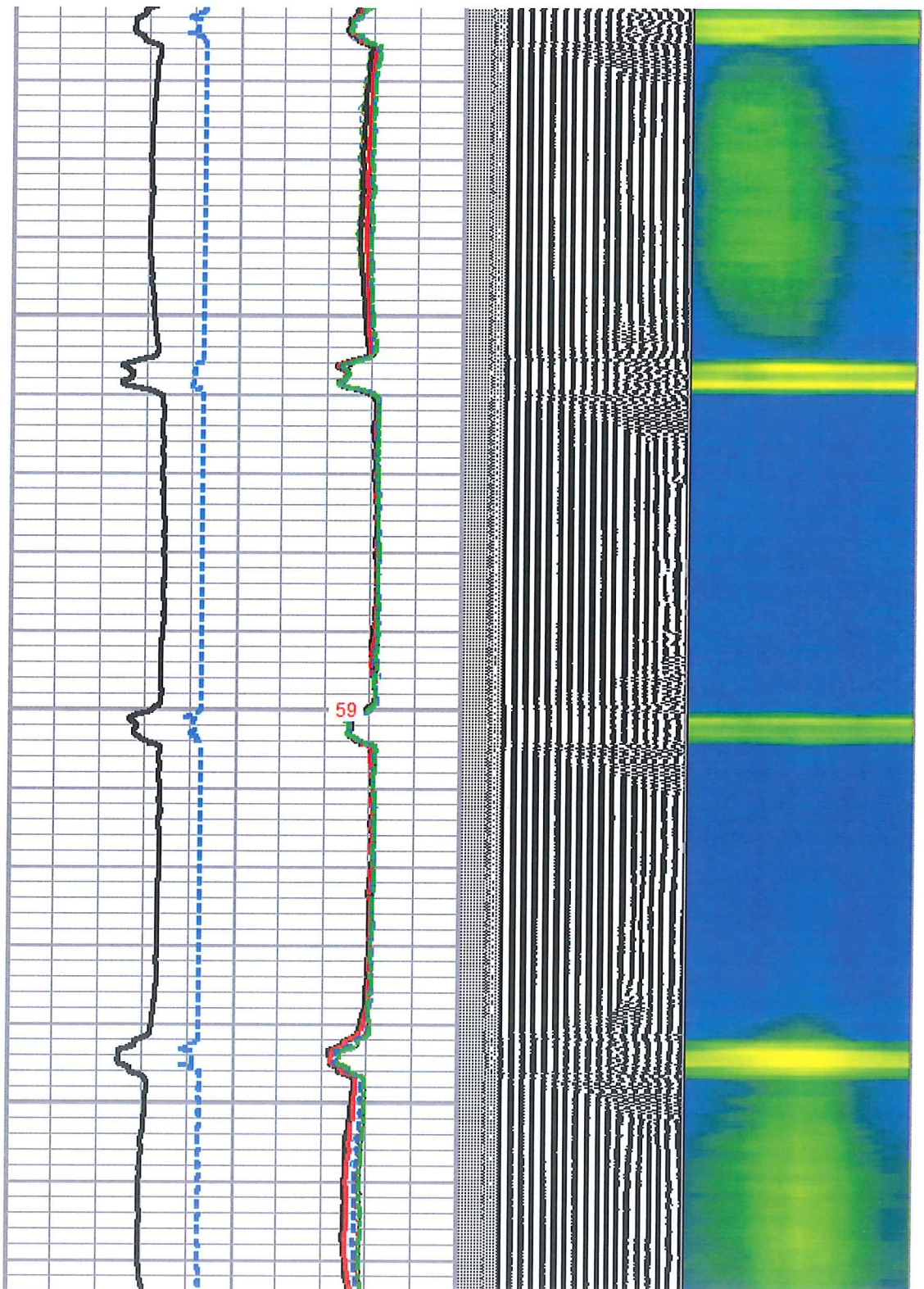
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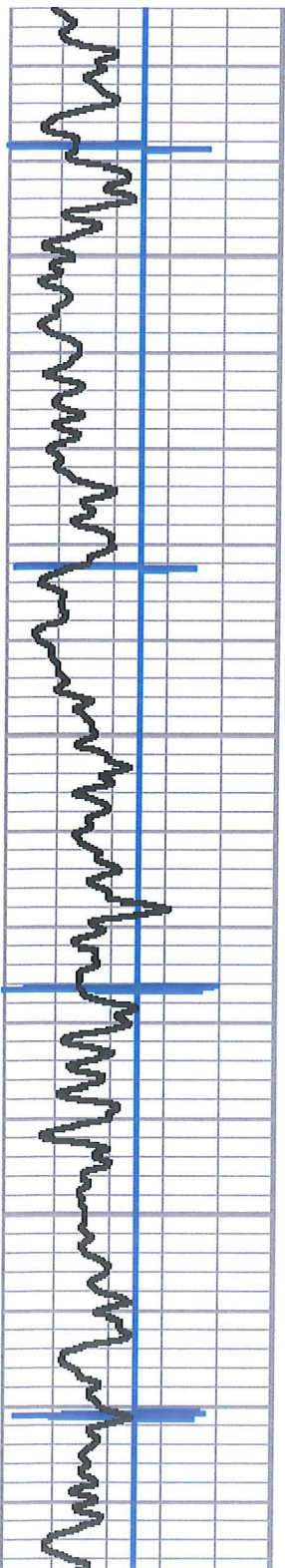


1450

1500

1550

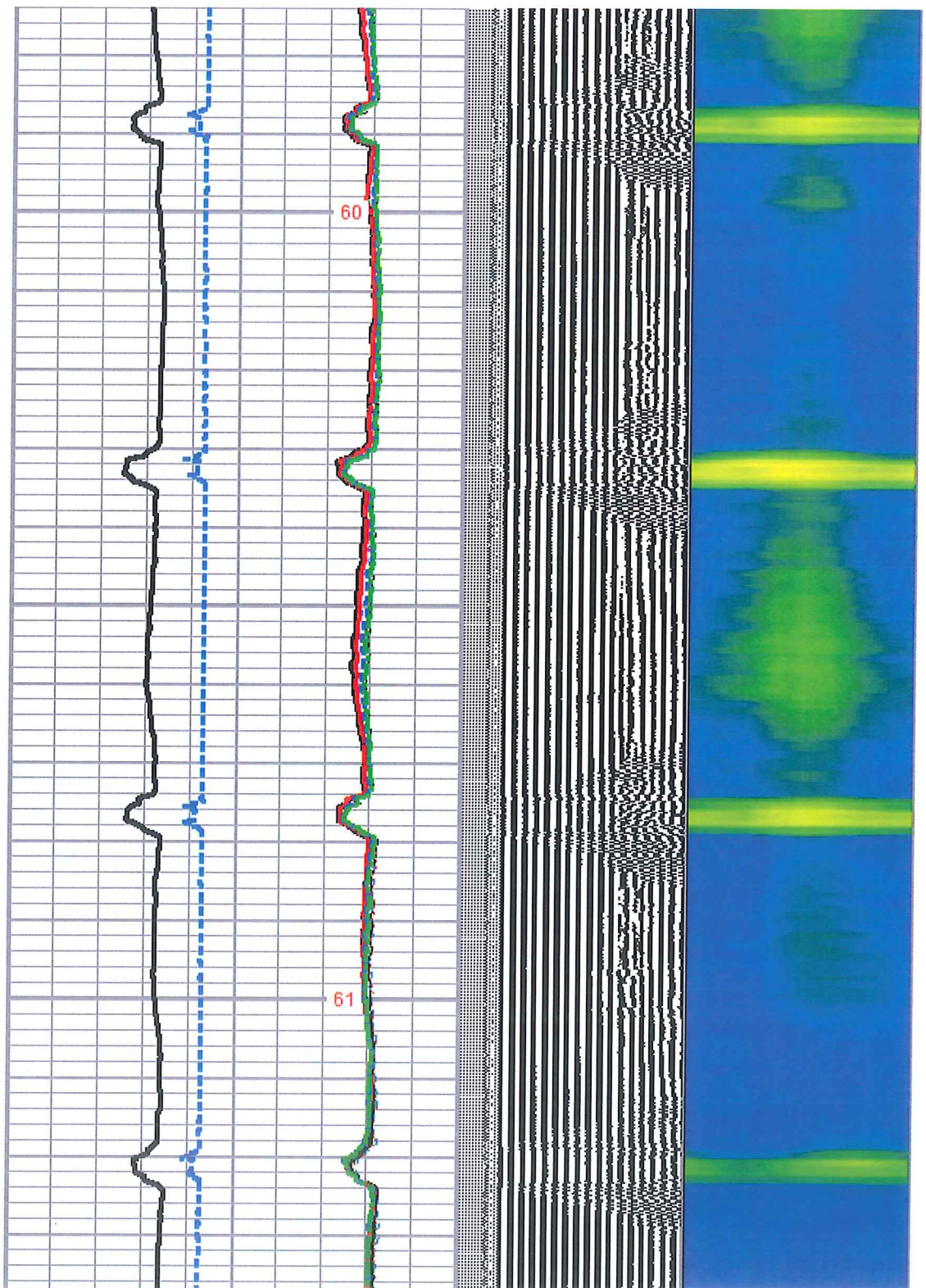


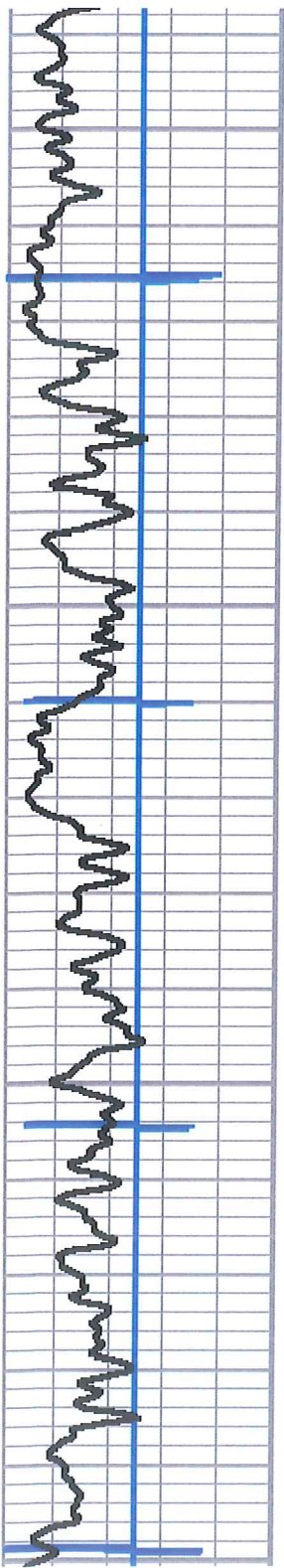


1600

1650

1700



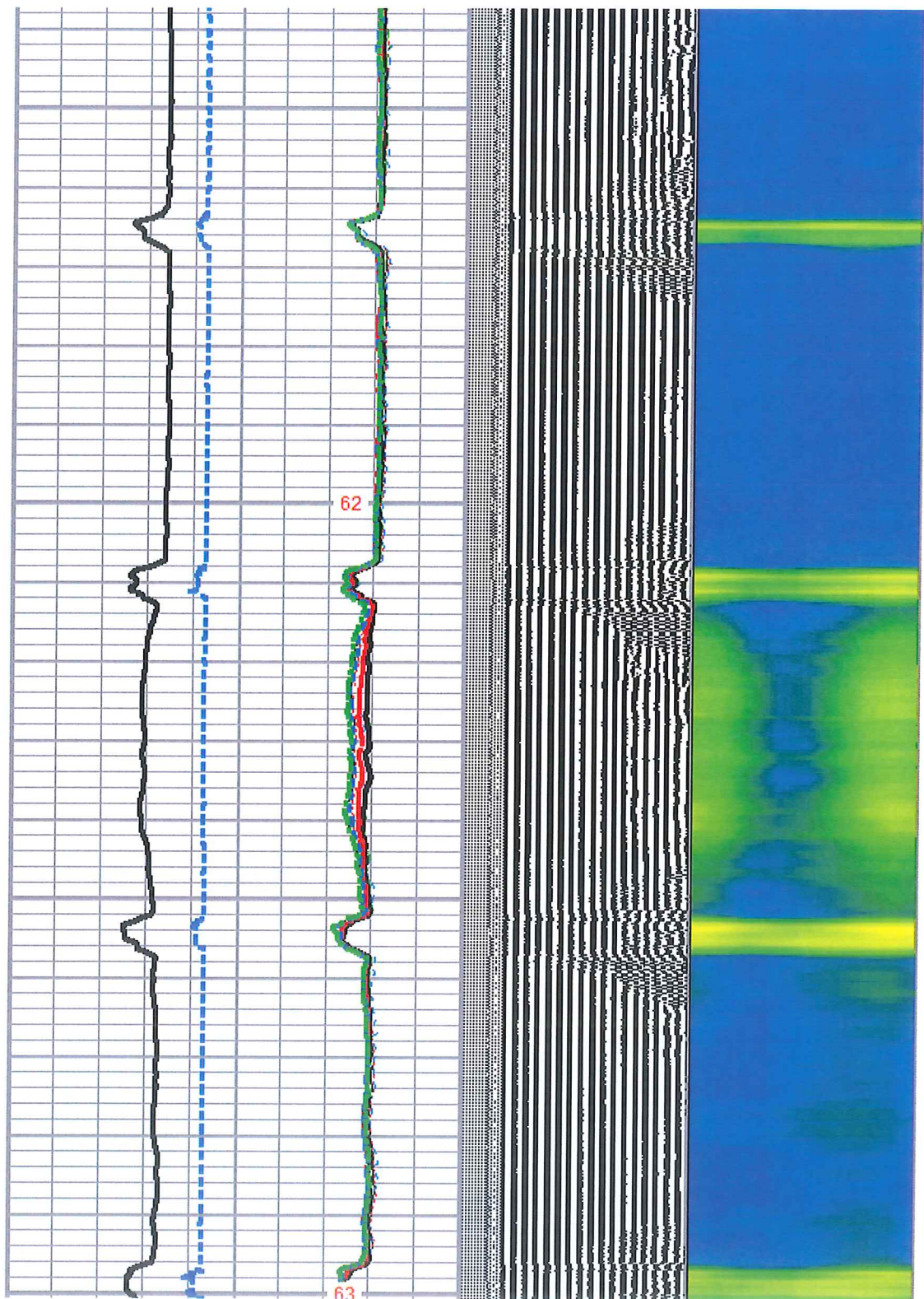


1750

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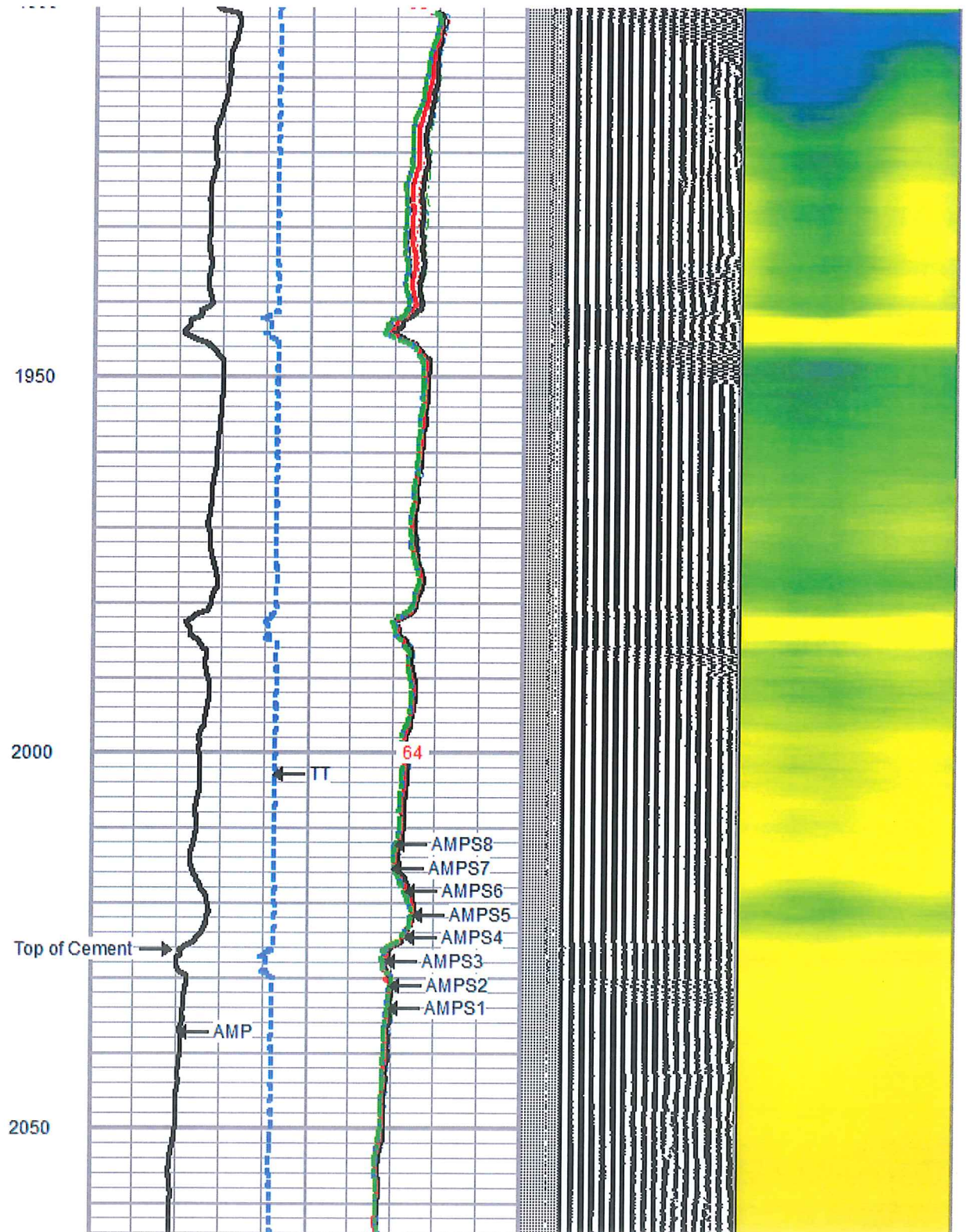
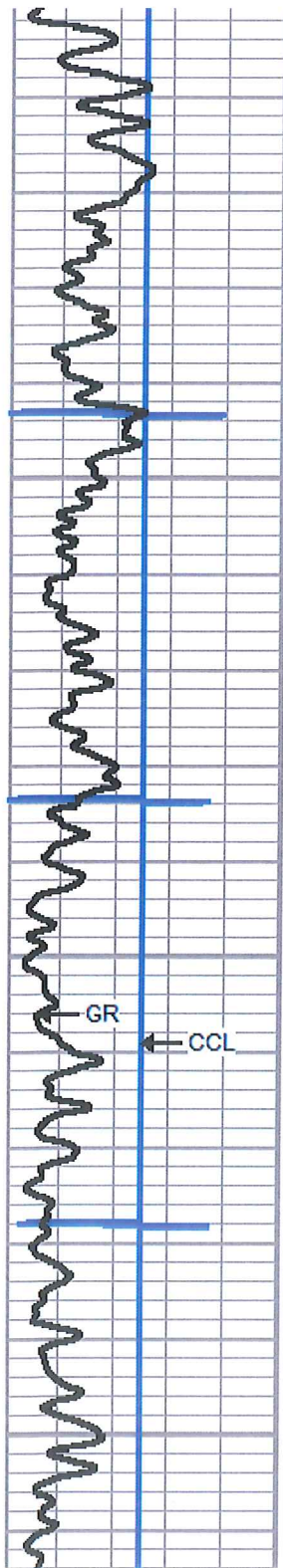
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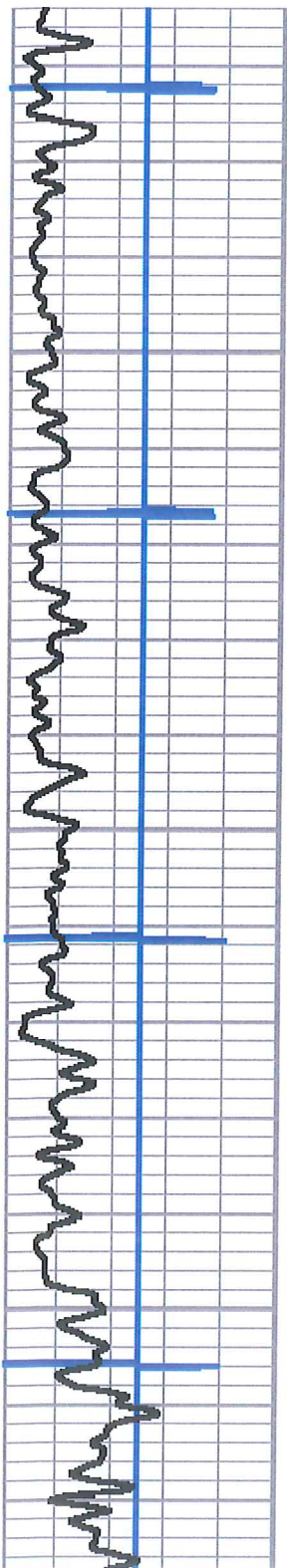
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62

63

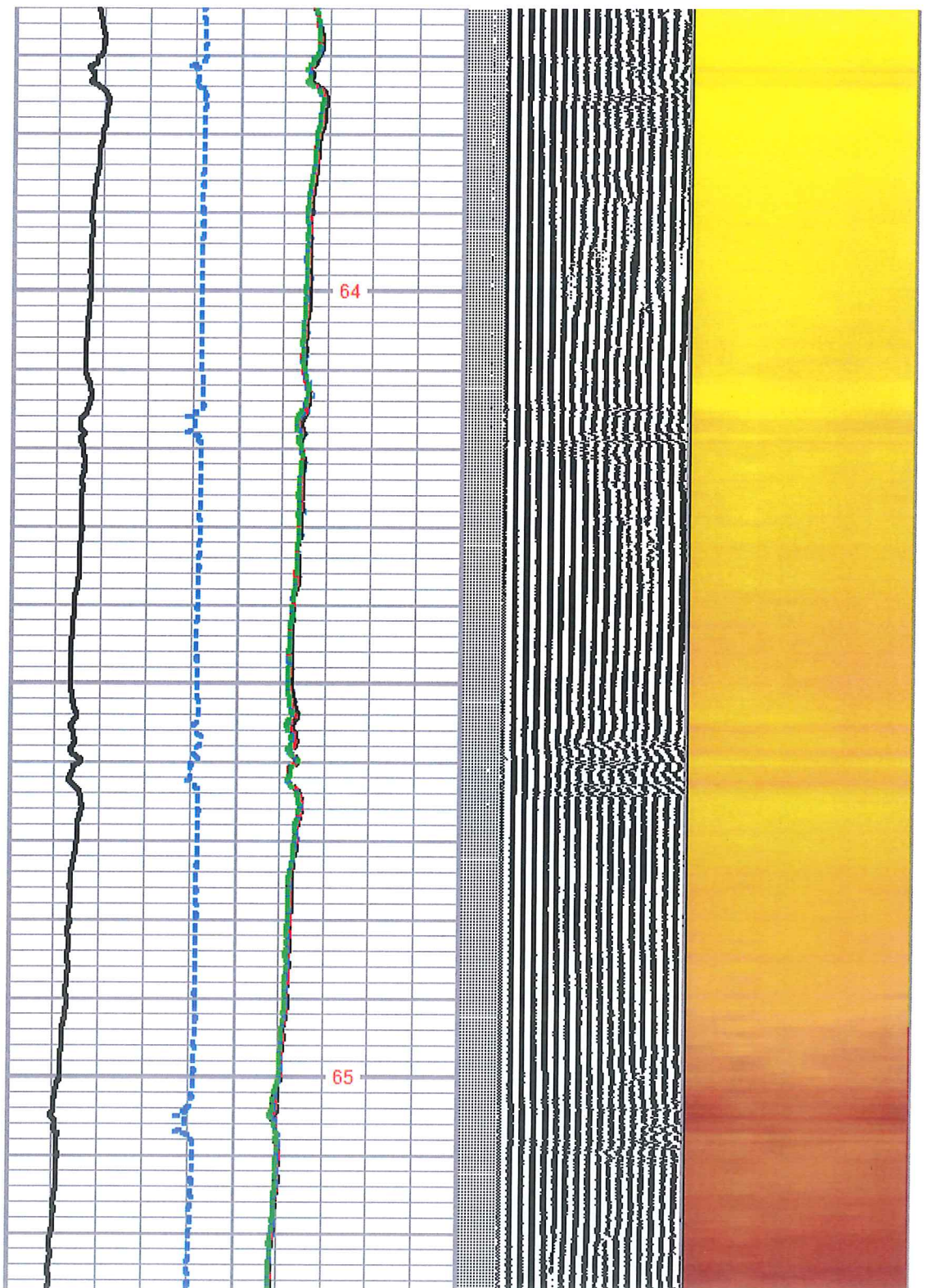




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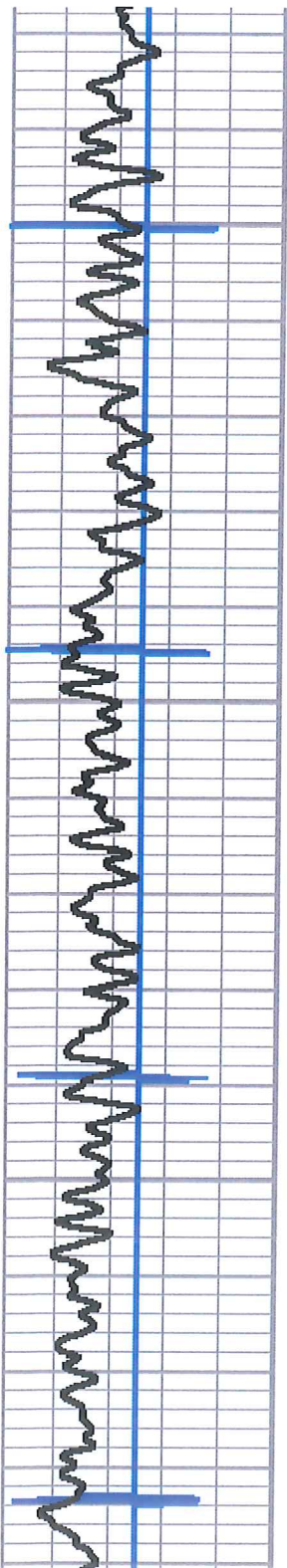
2150

2200



64

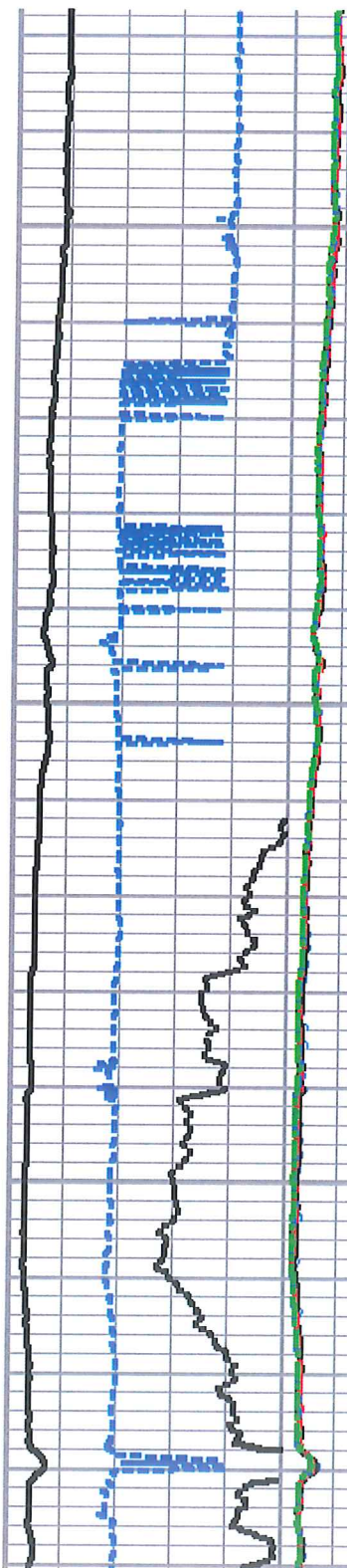
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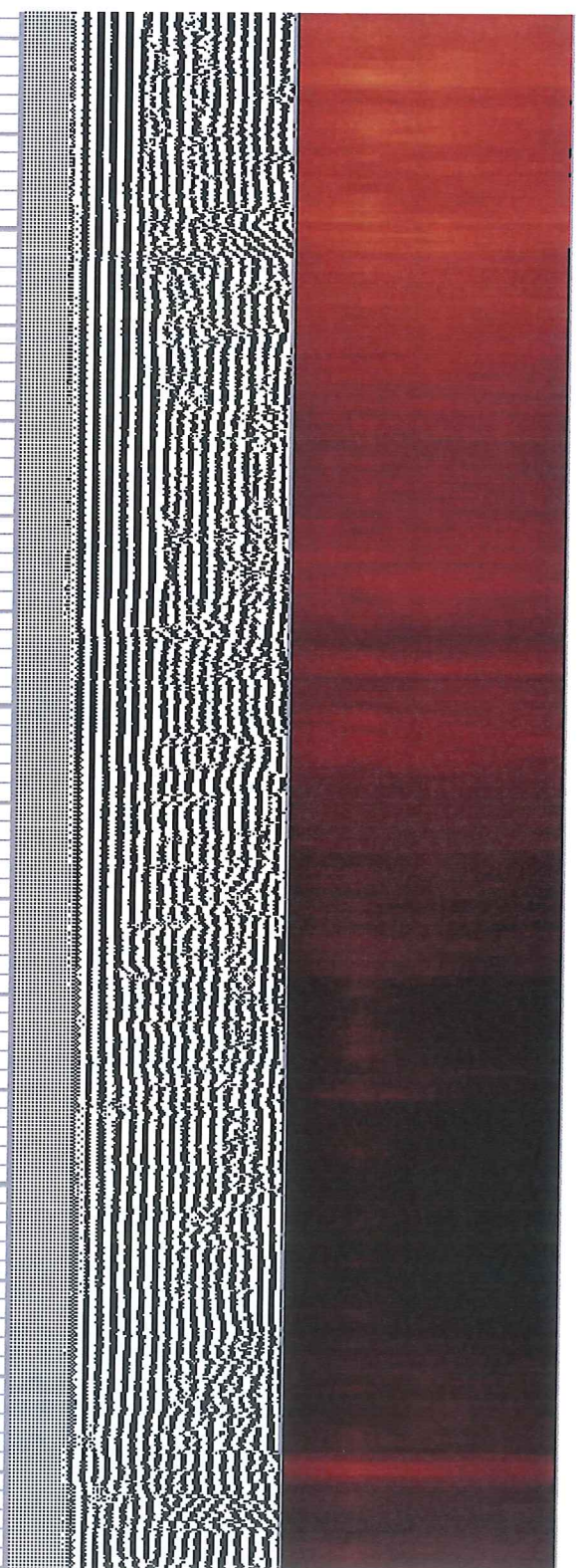
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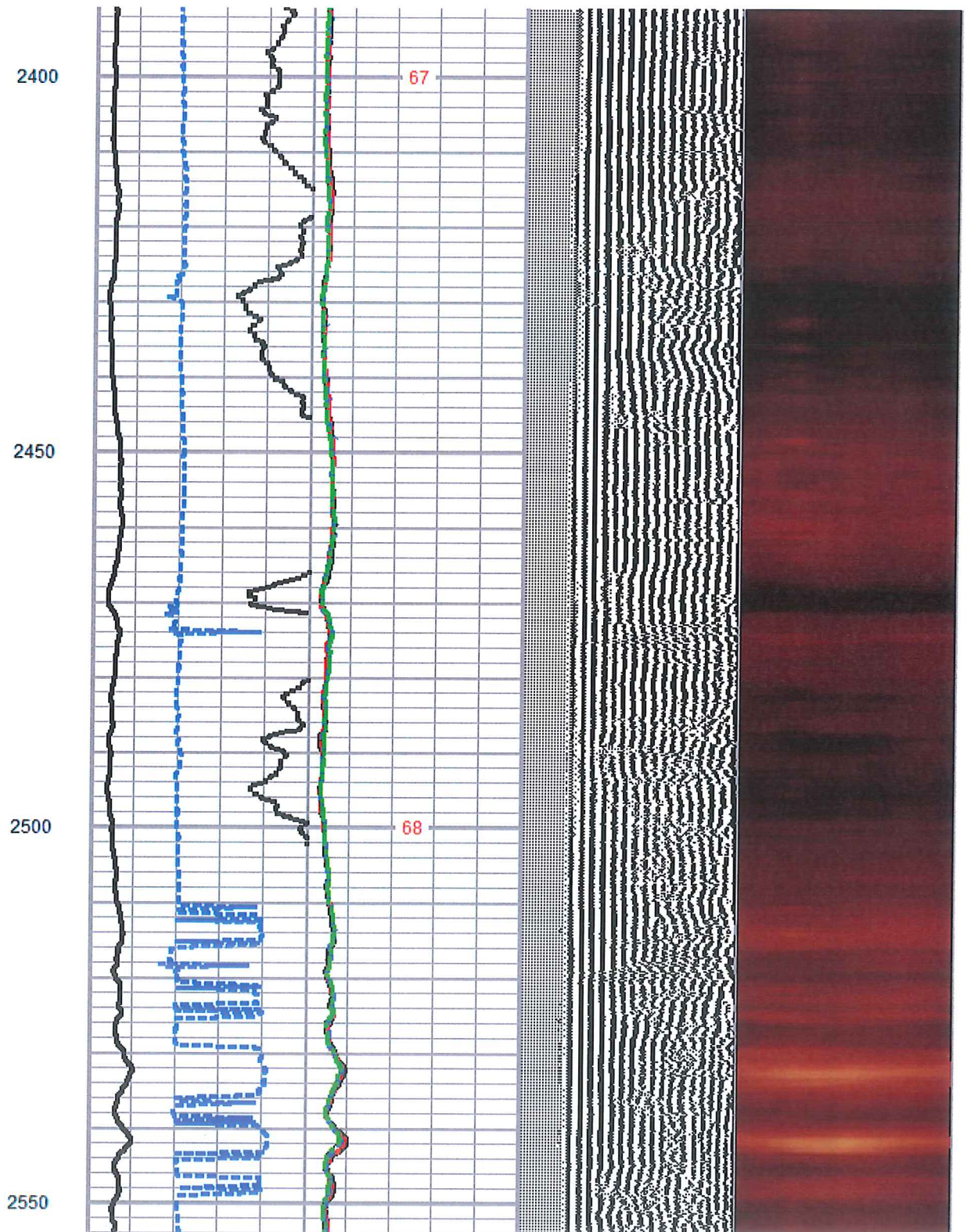
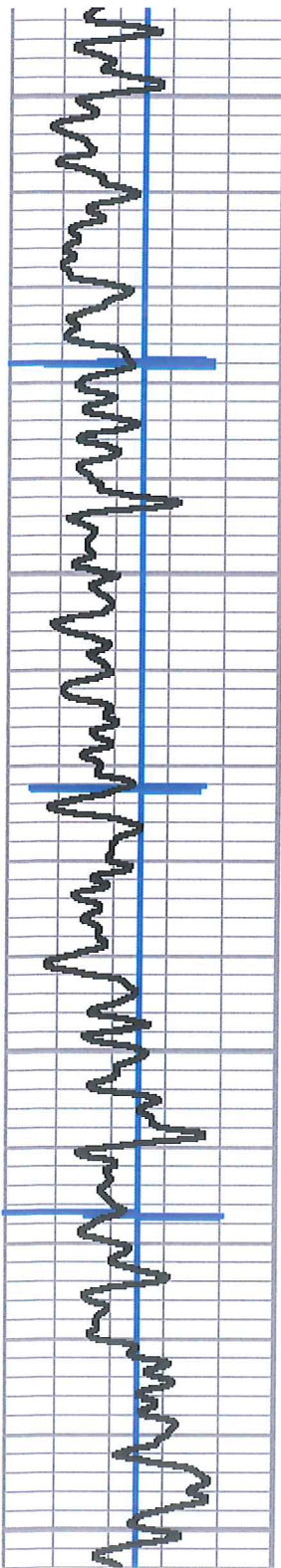
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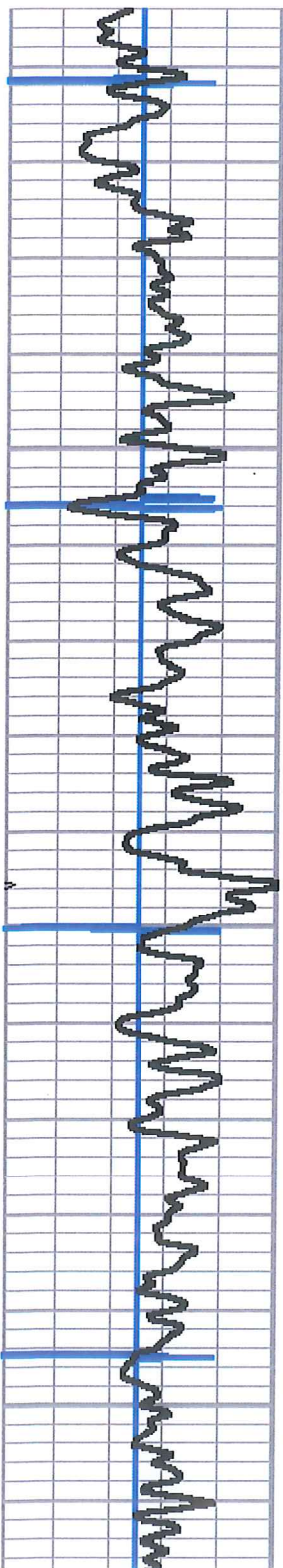
2350



66



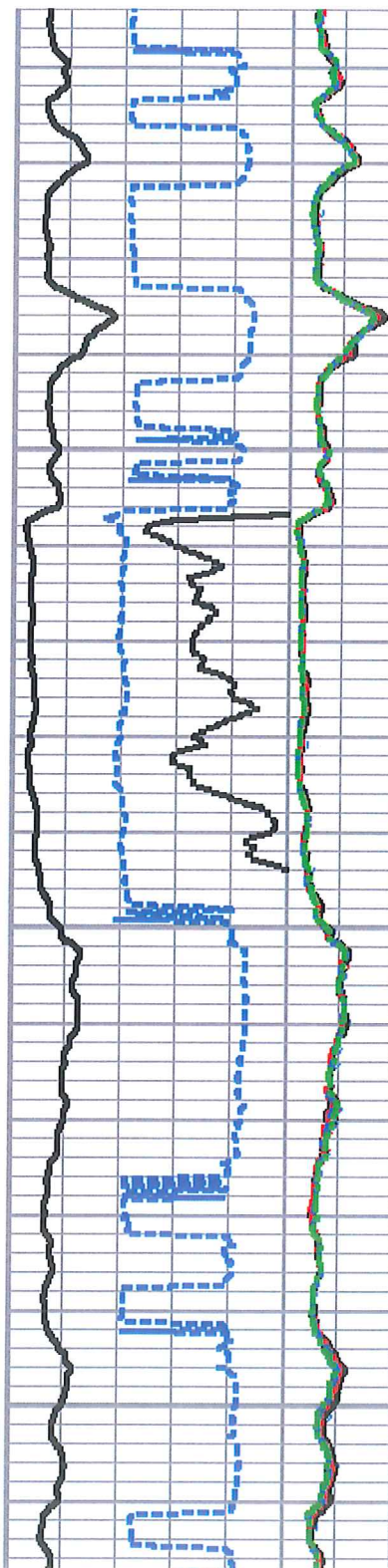




2600

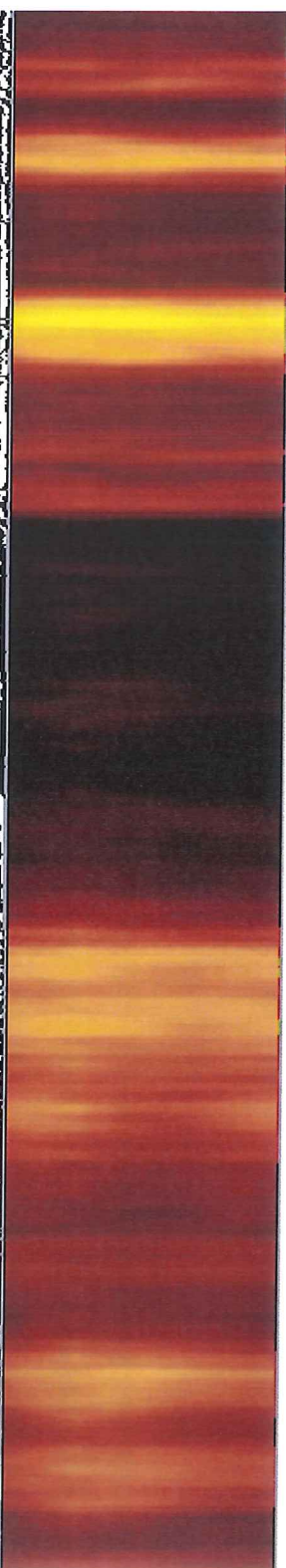
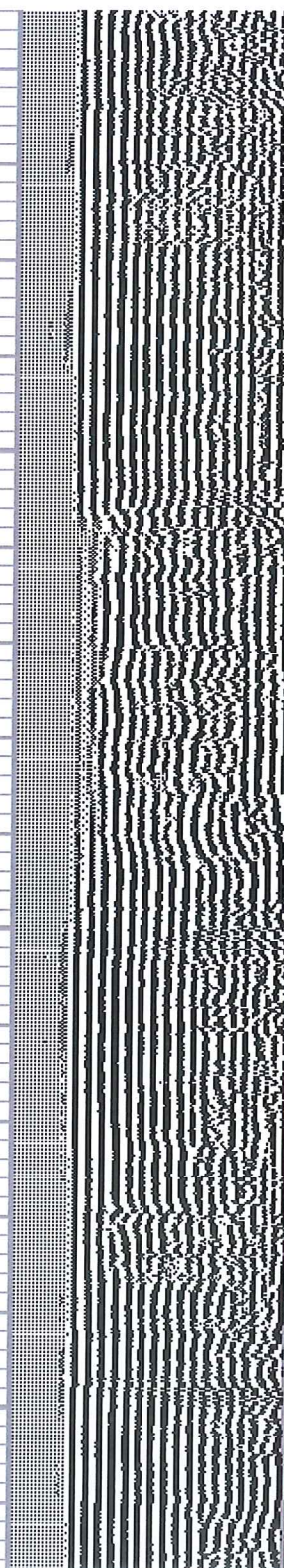
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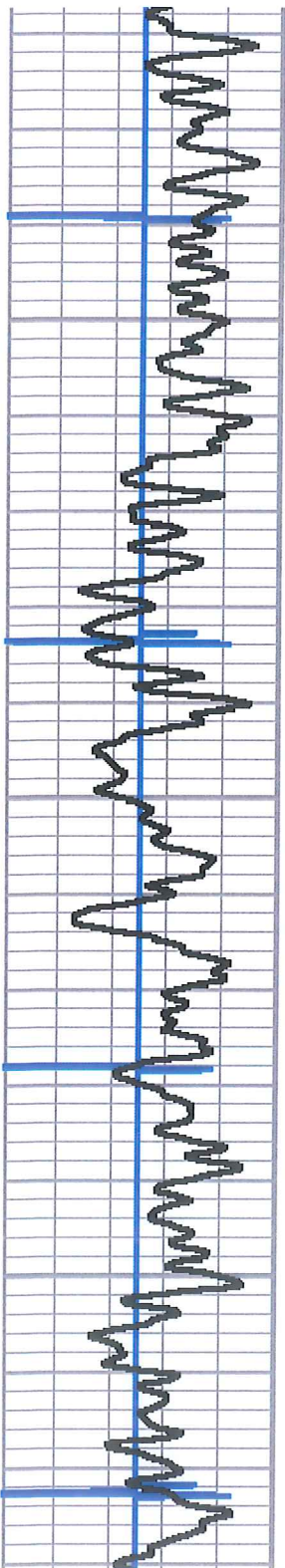
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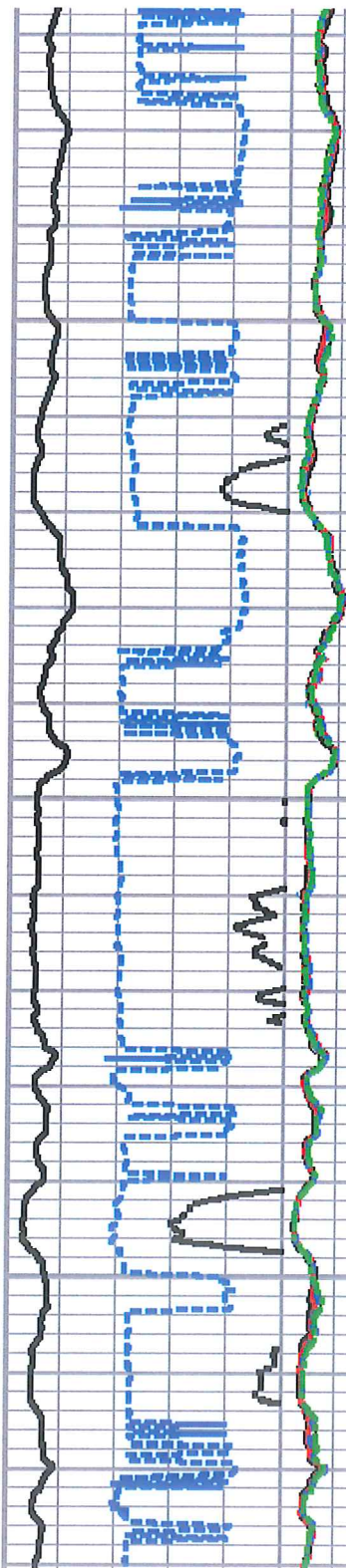




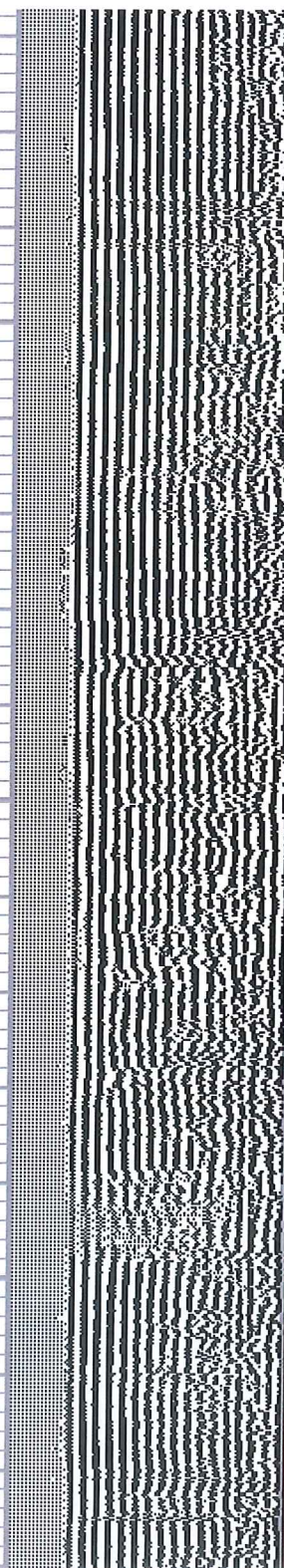
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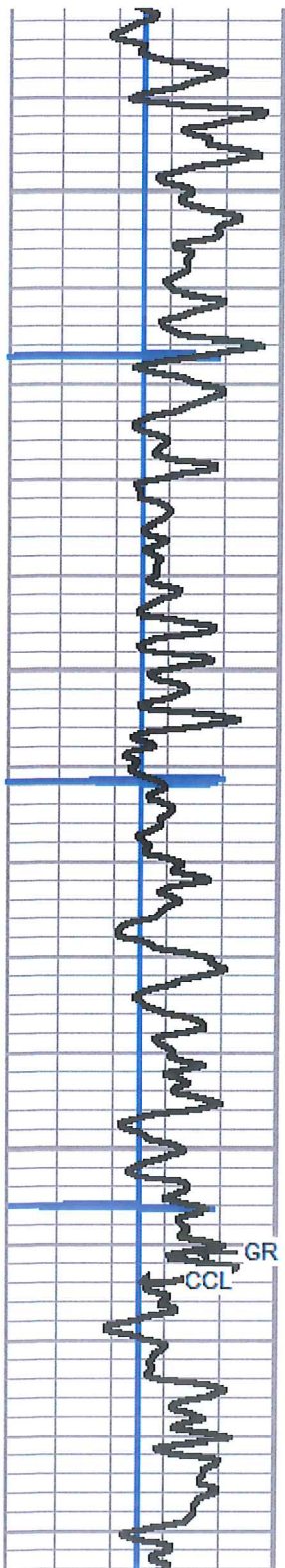
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2850



71

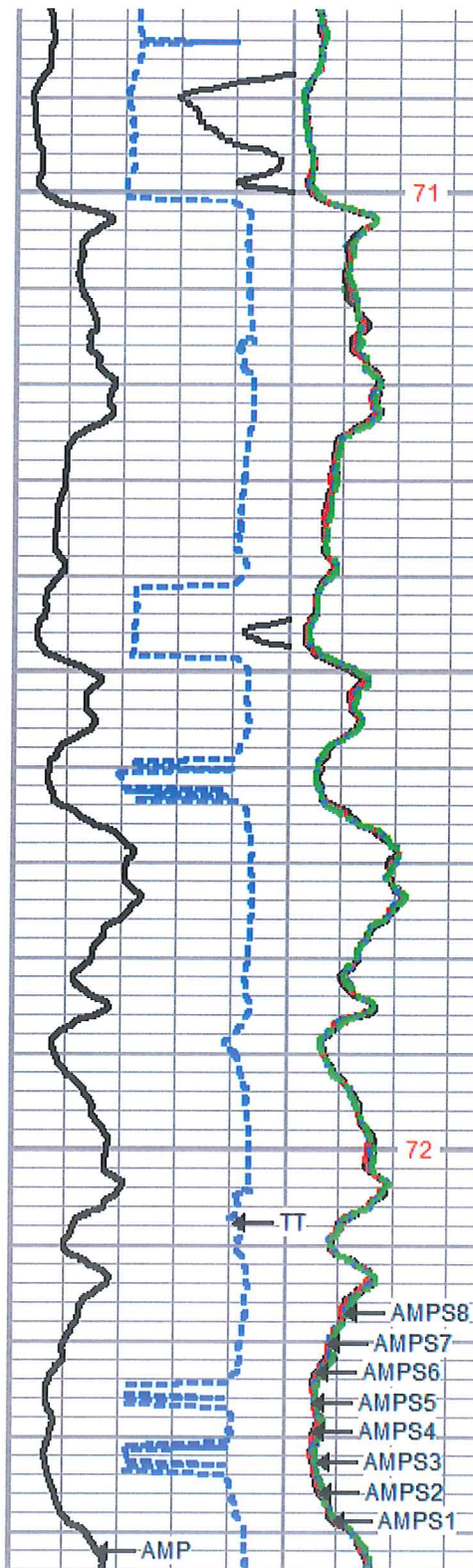




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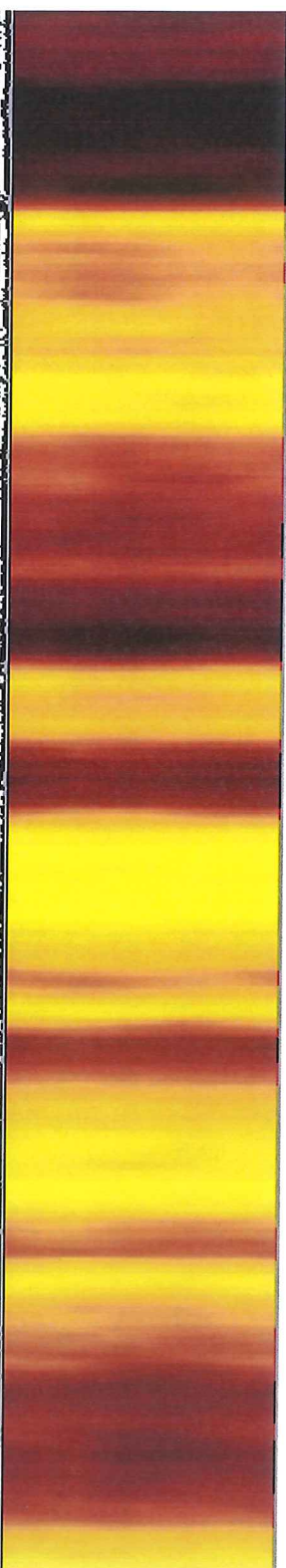
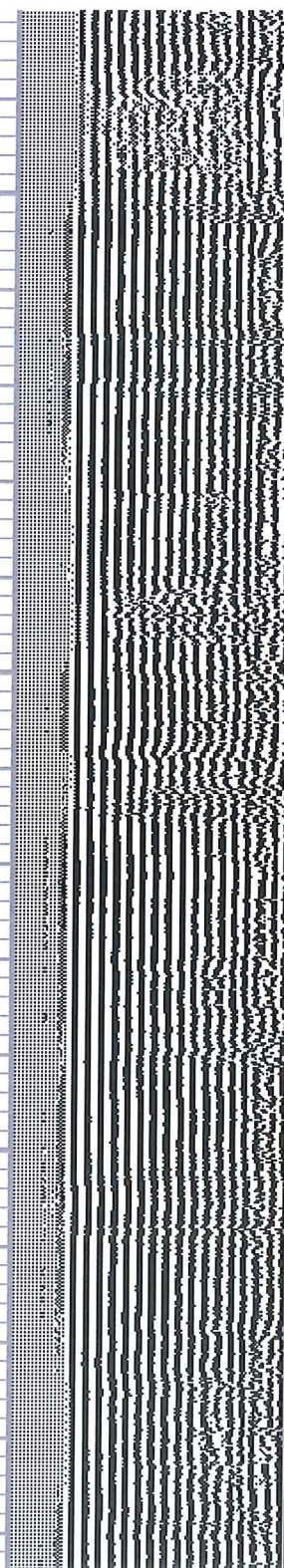
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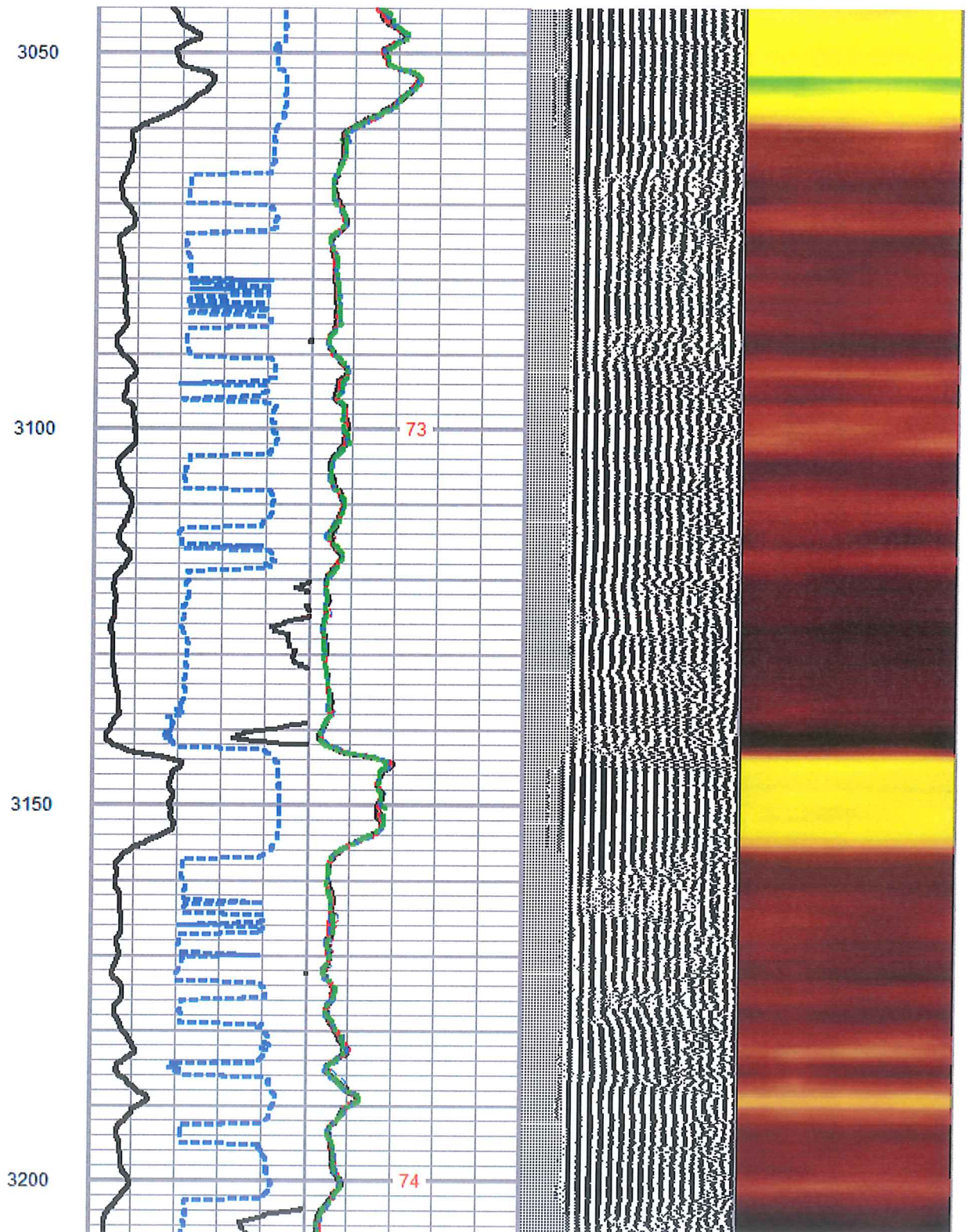
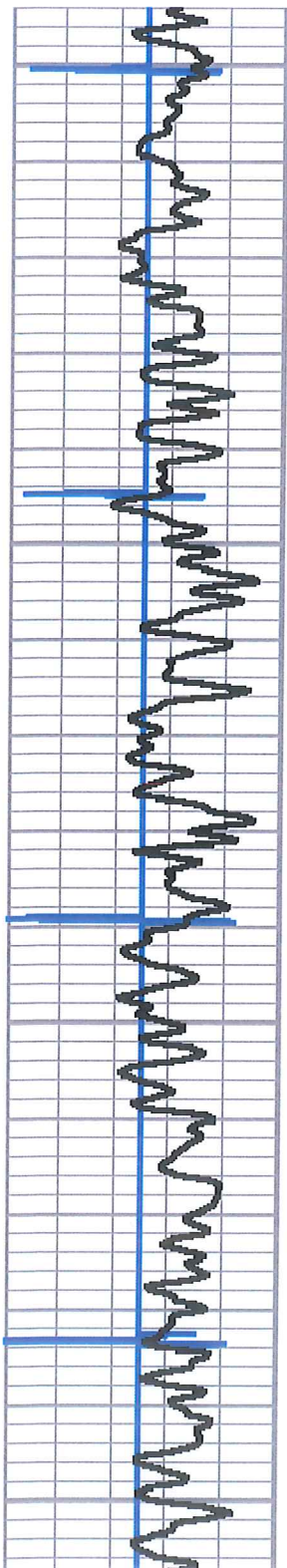
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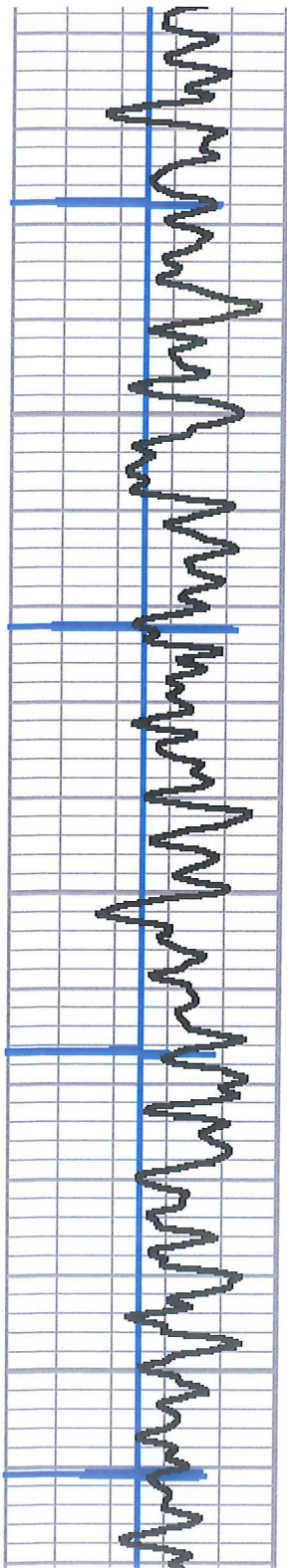


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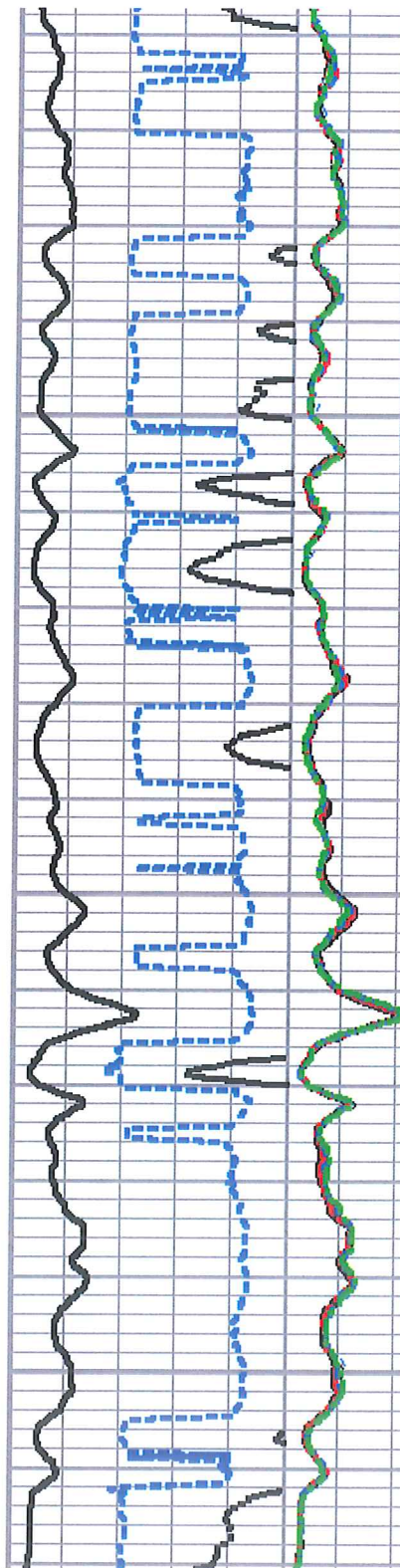




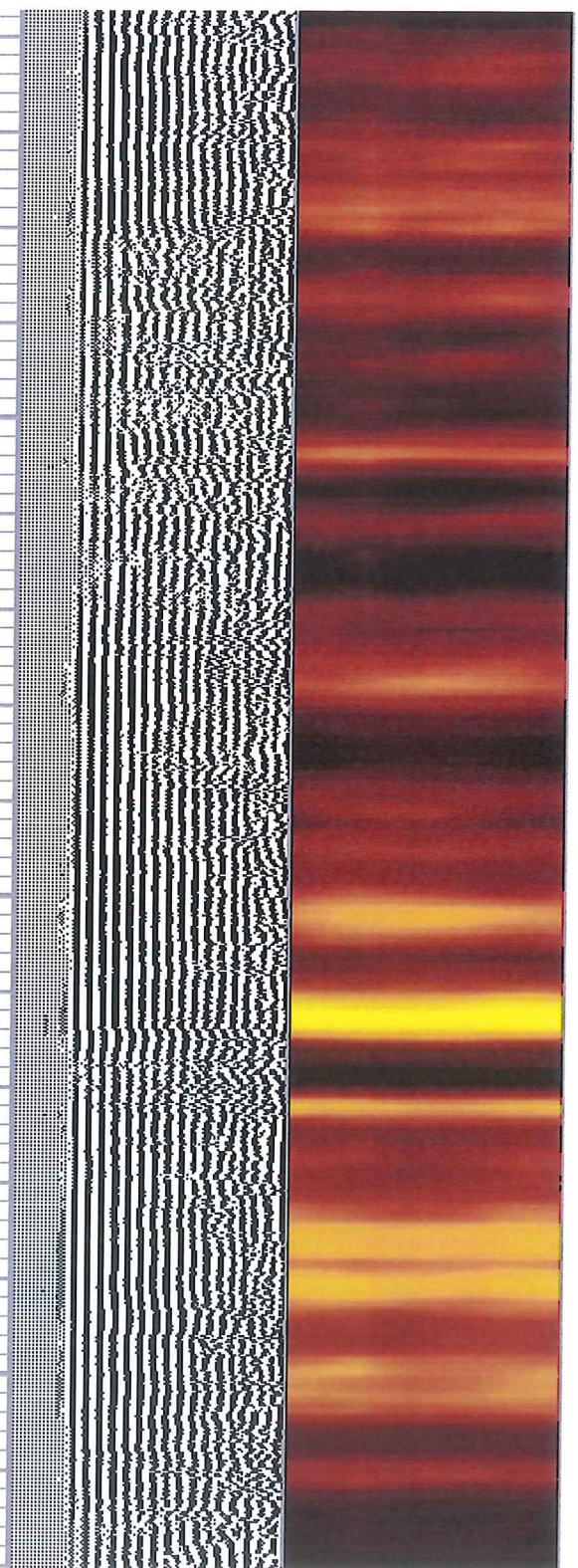
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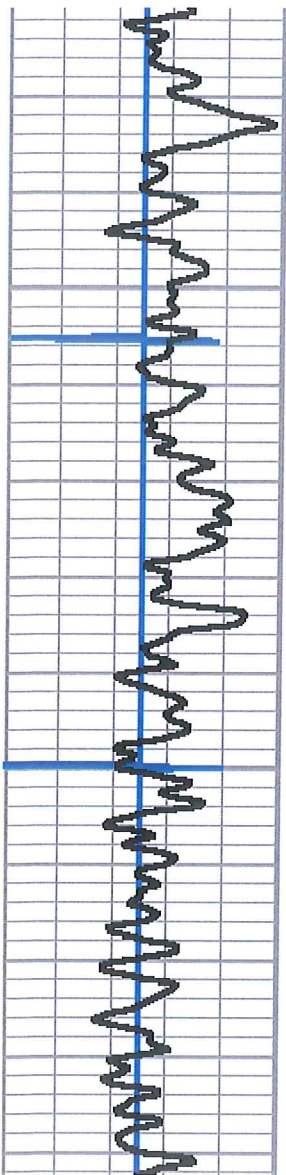
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3350



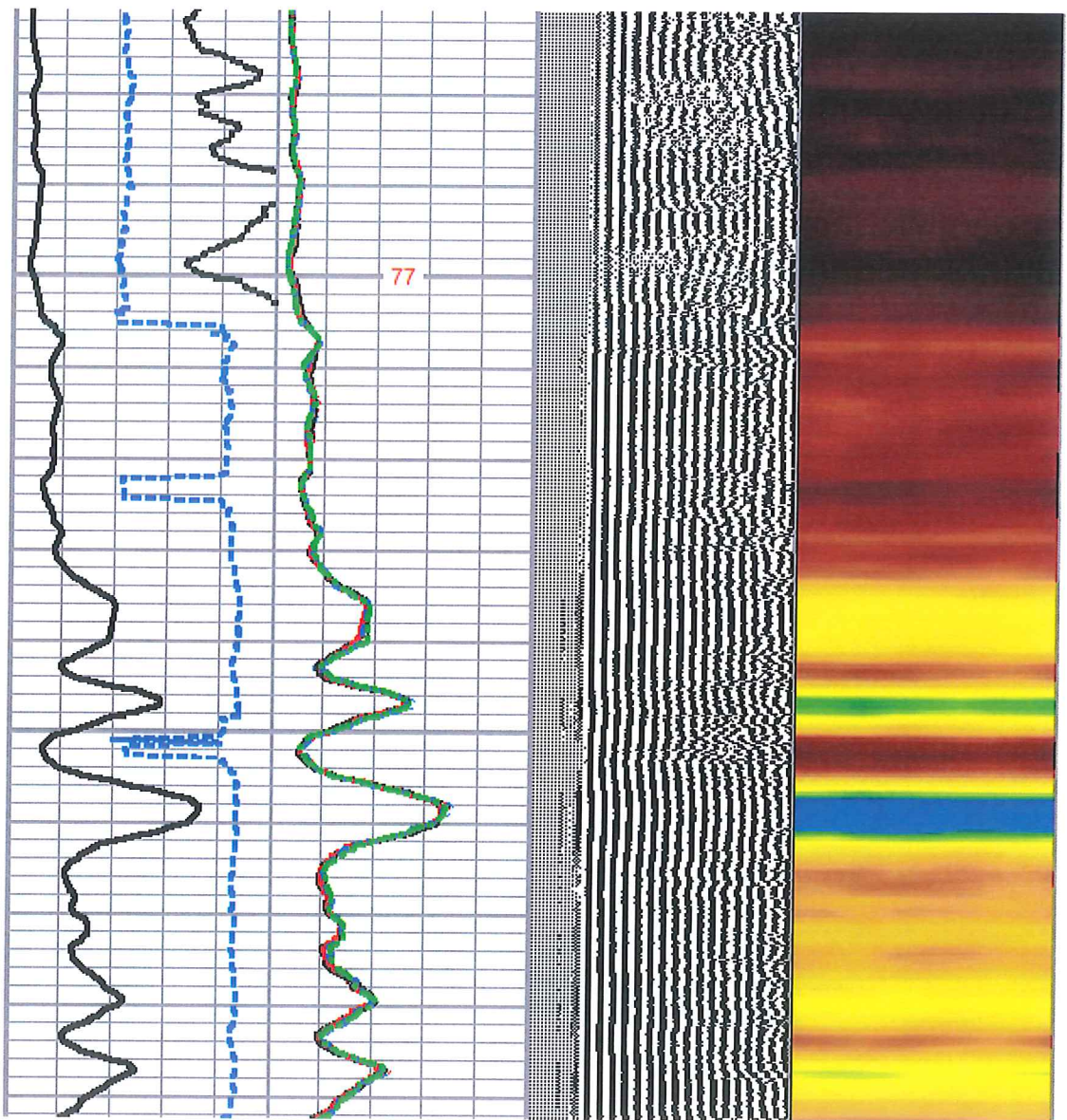
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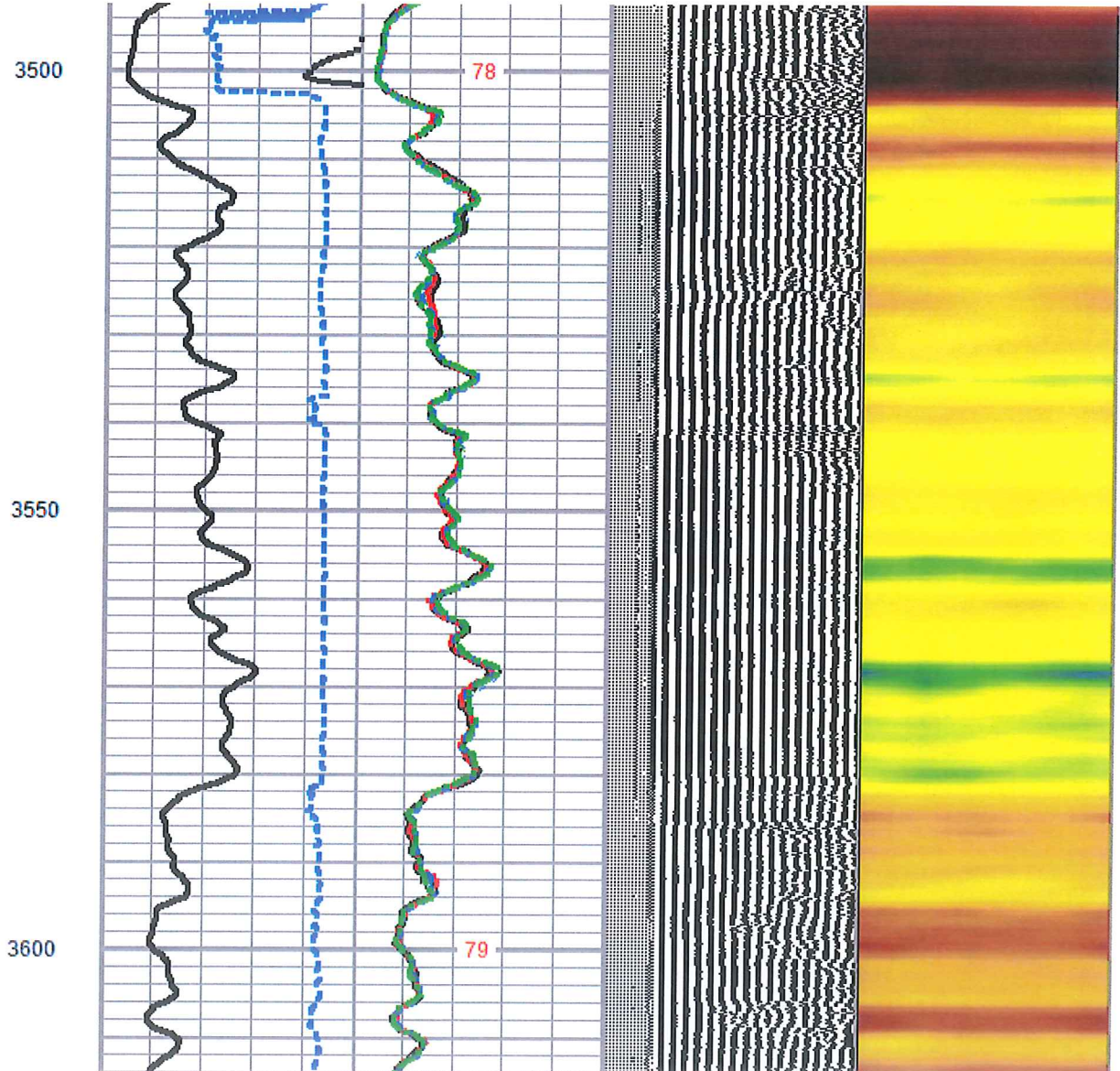
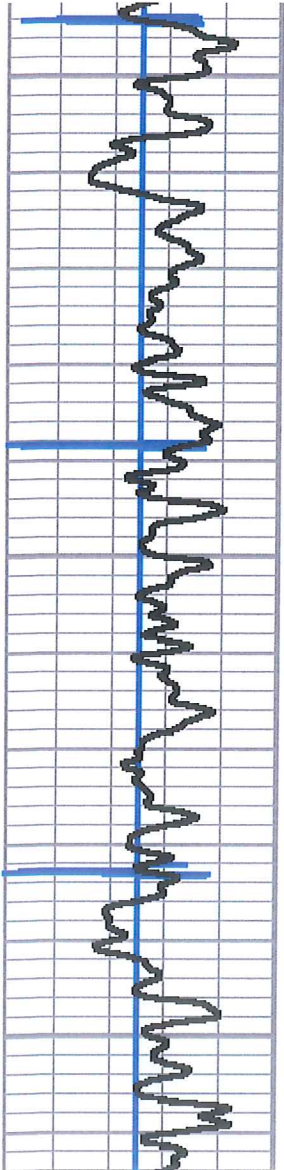


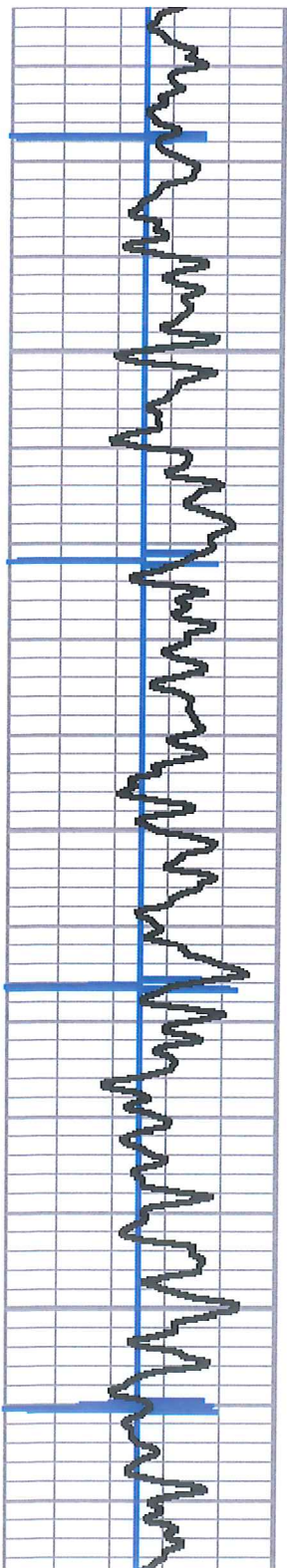


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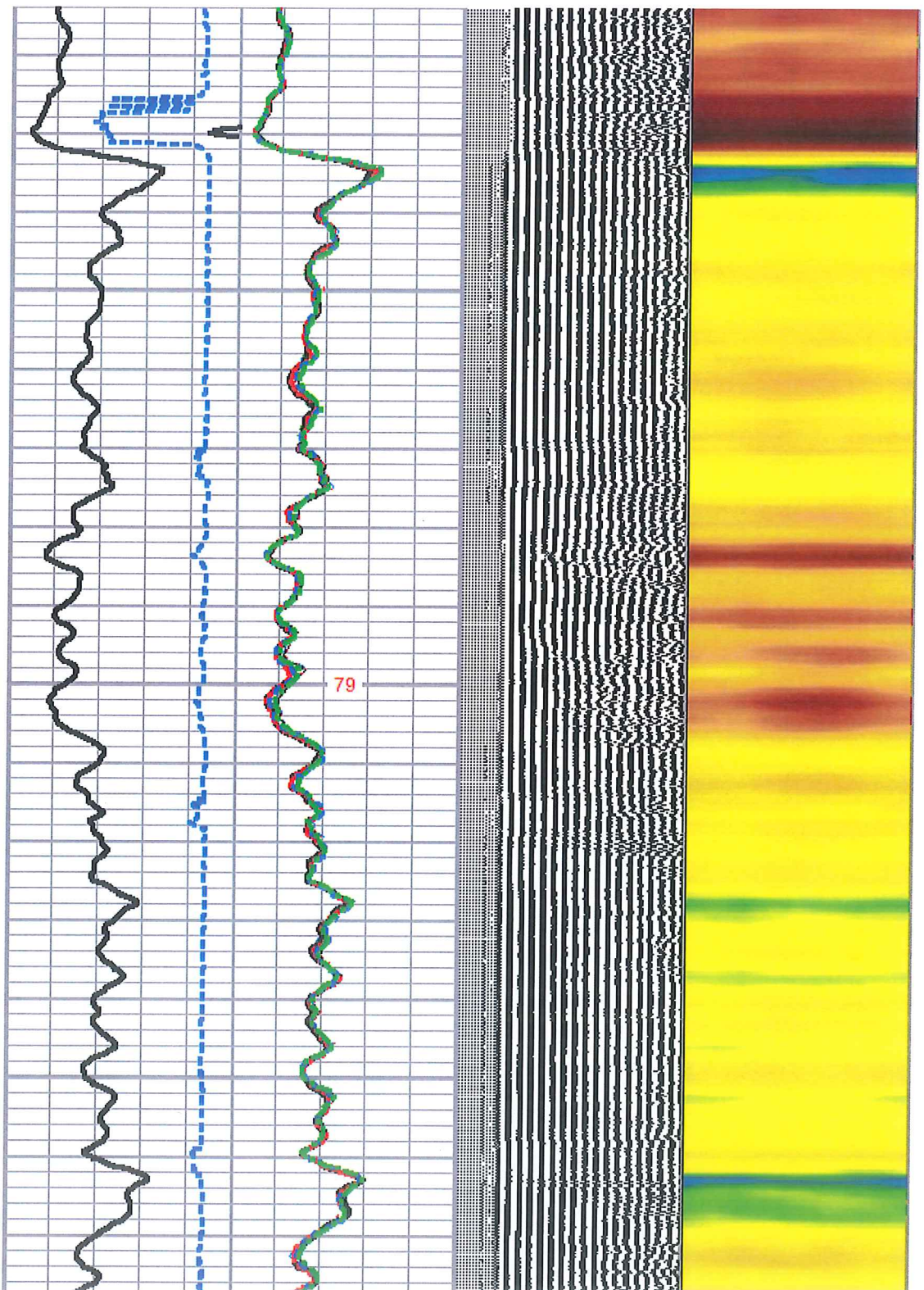


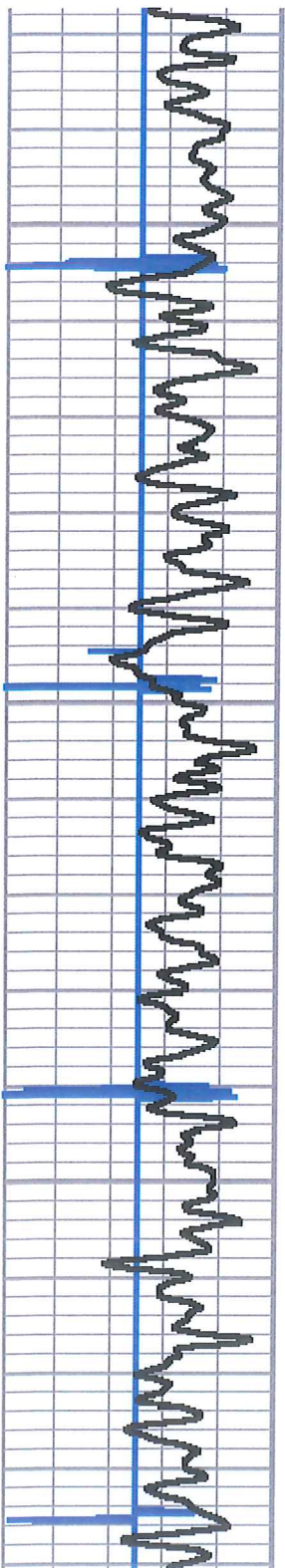


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3700

3750

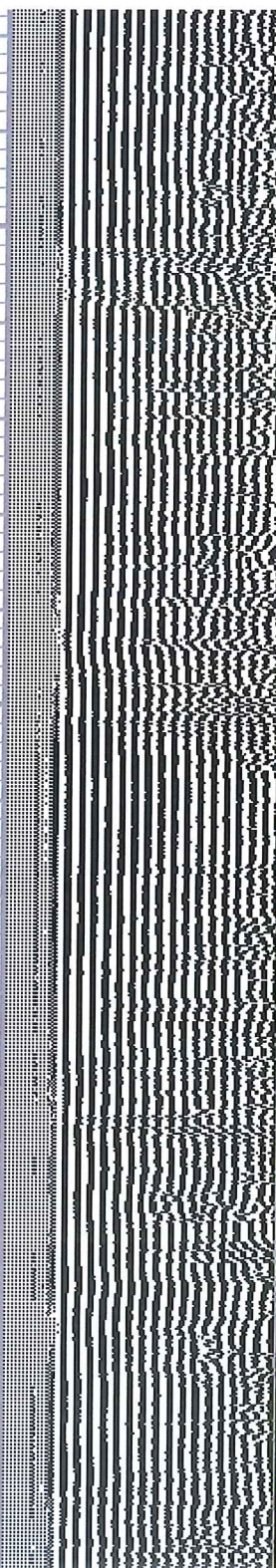
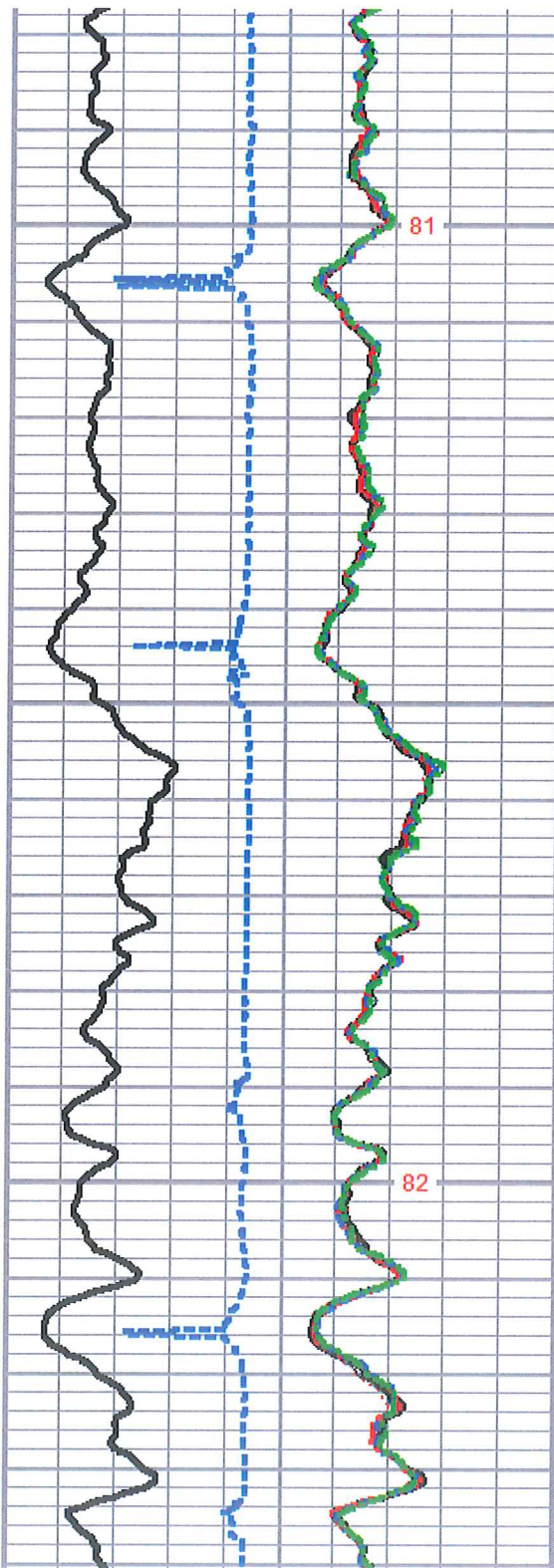


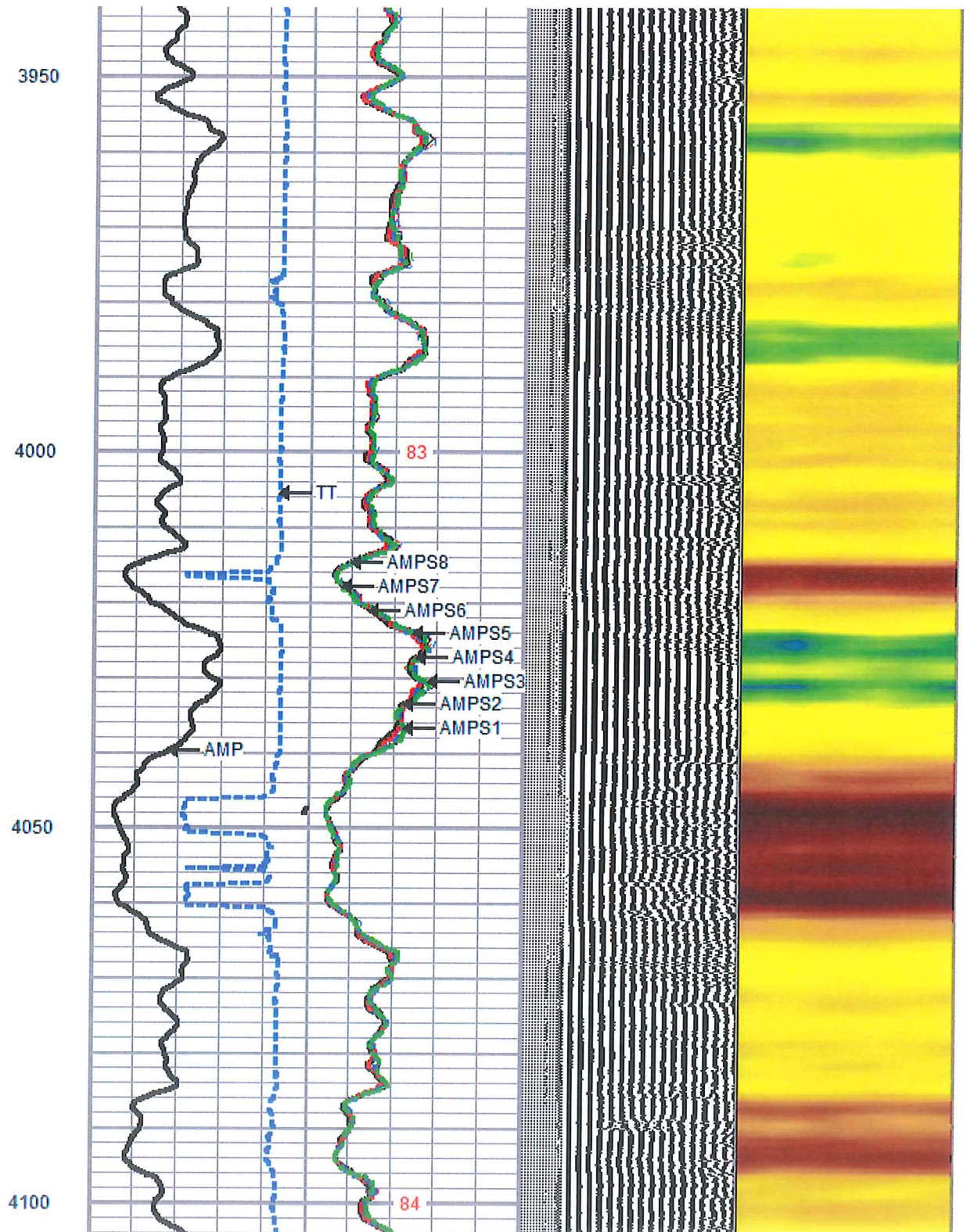
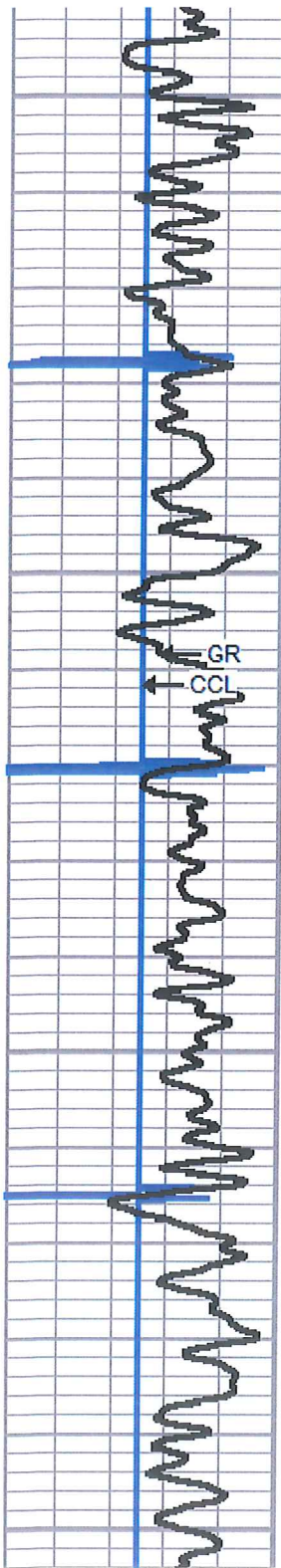


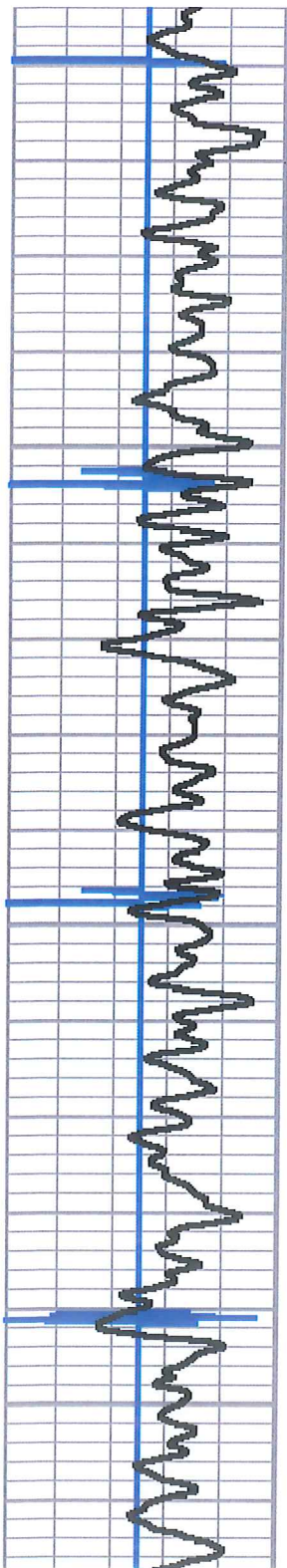
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3850

3900



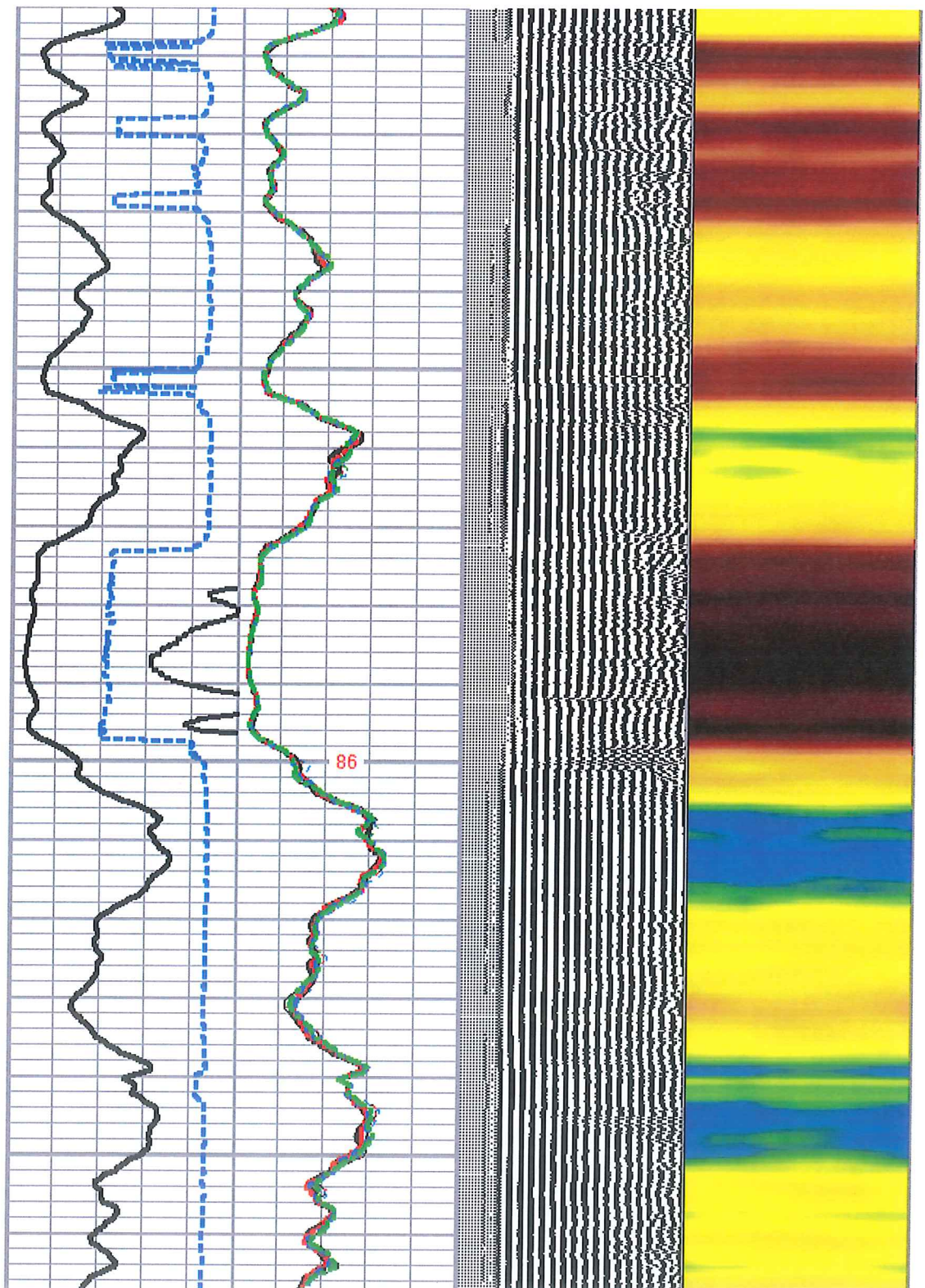


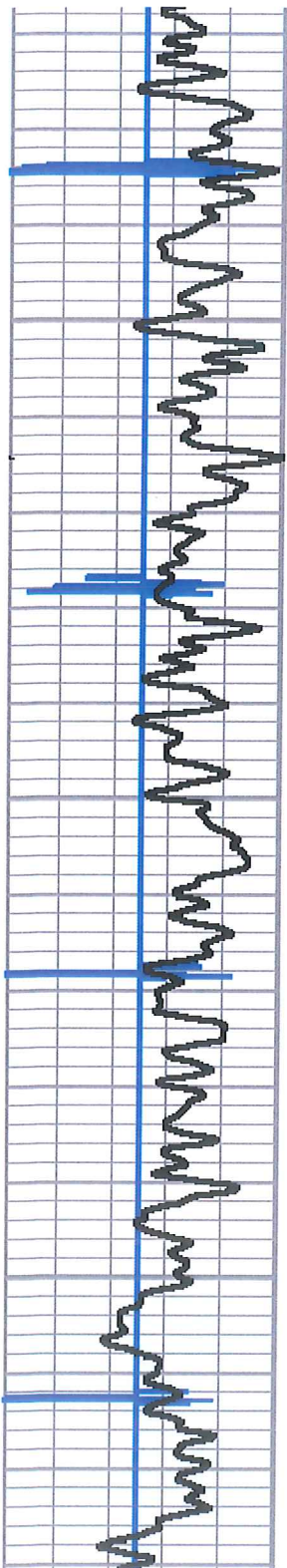


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4250

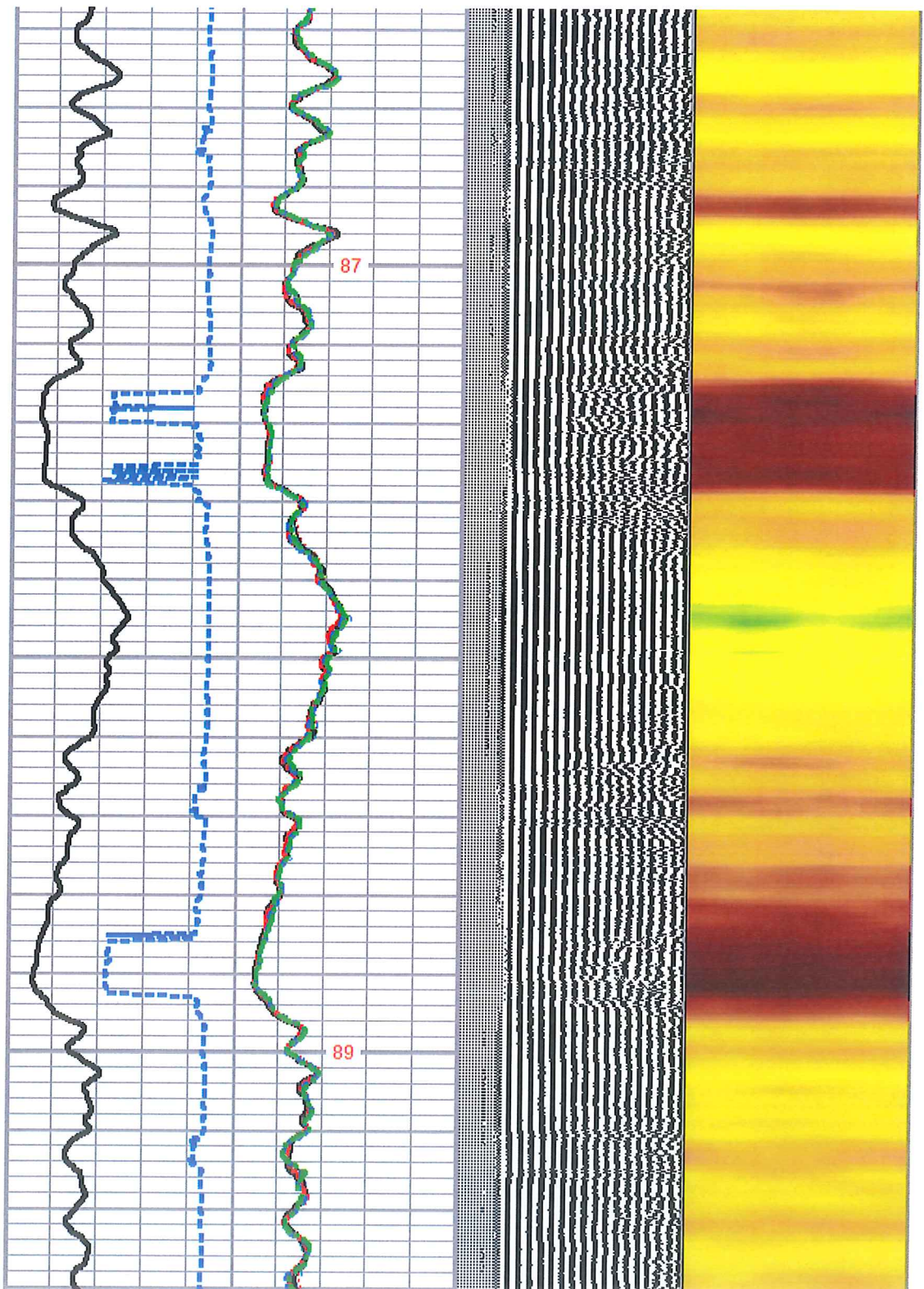




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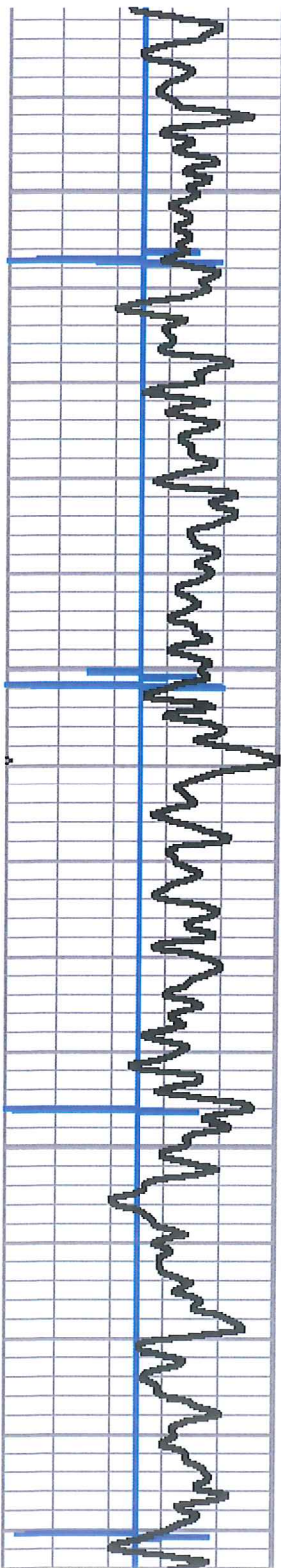
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4400



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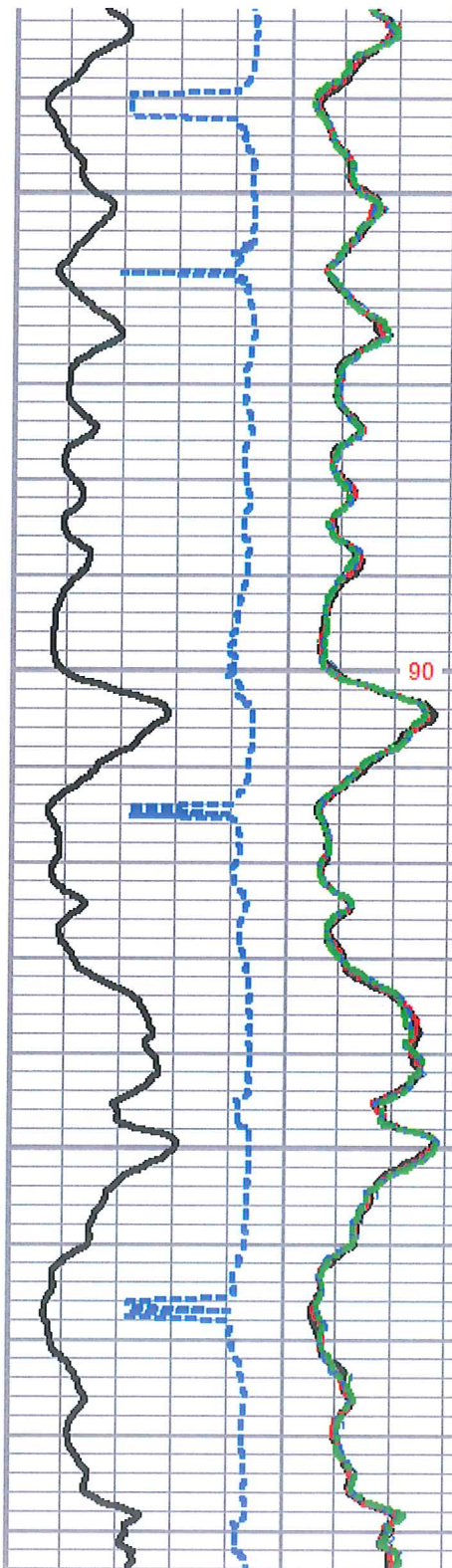
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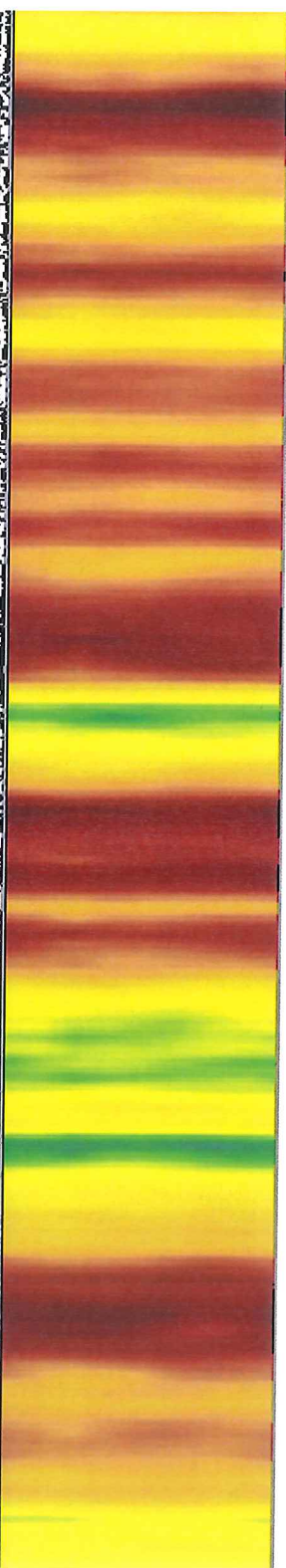
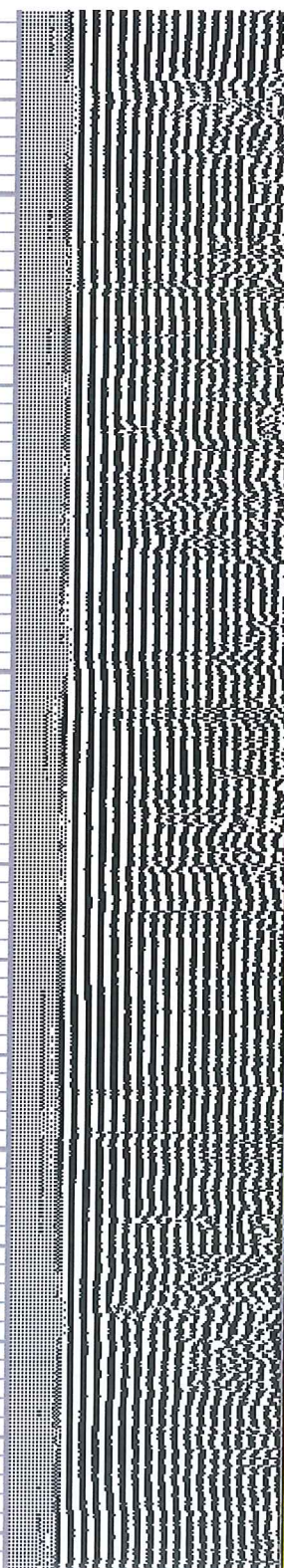
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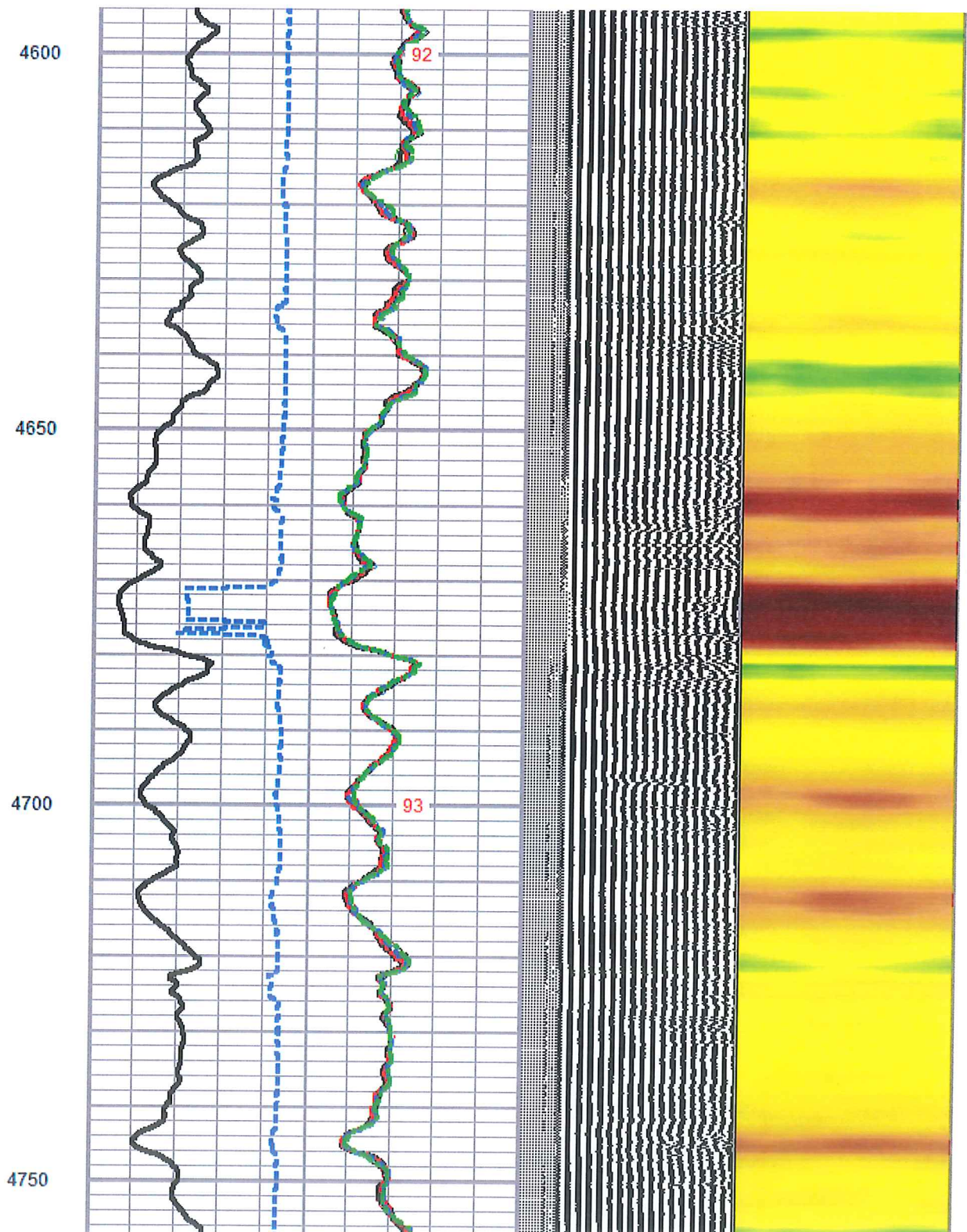
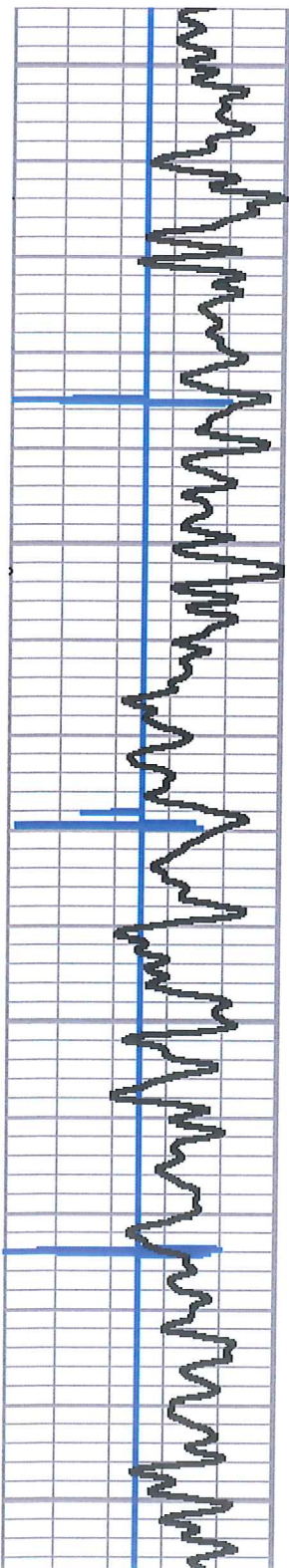
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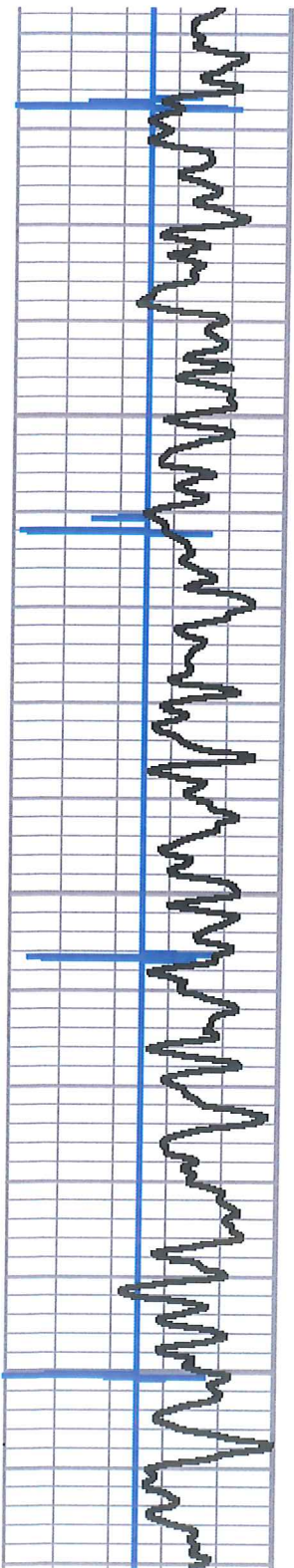
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90



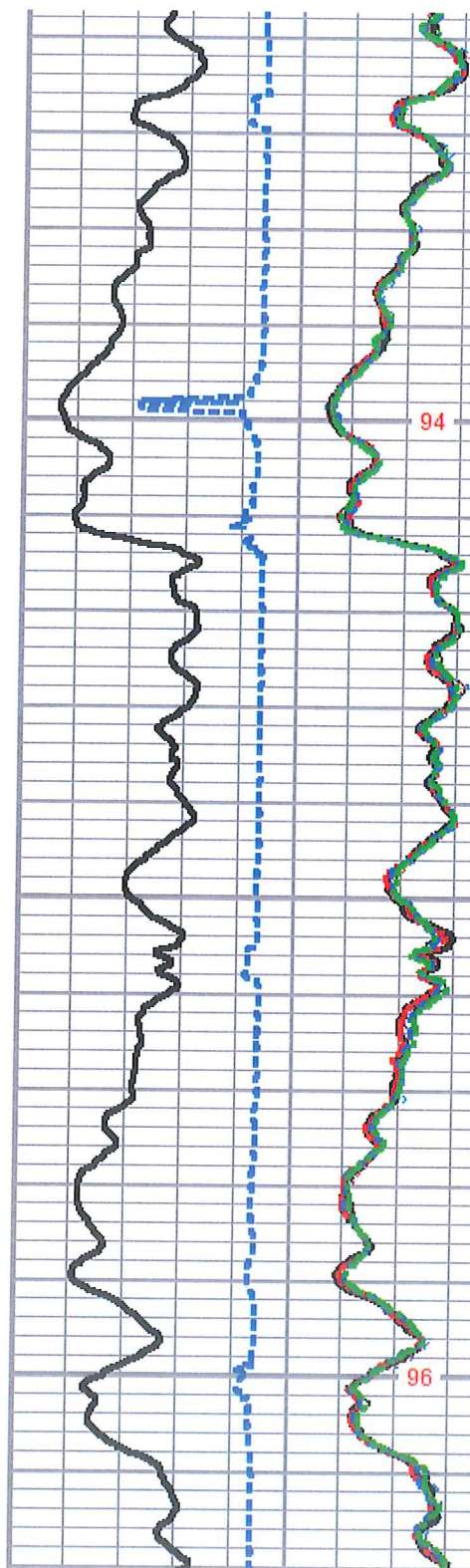




4800

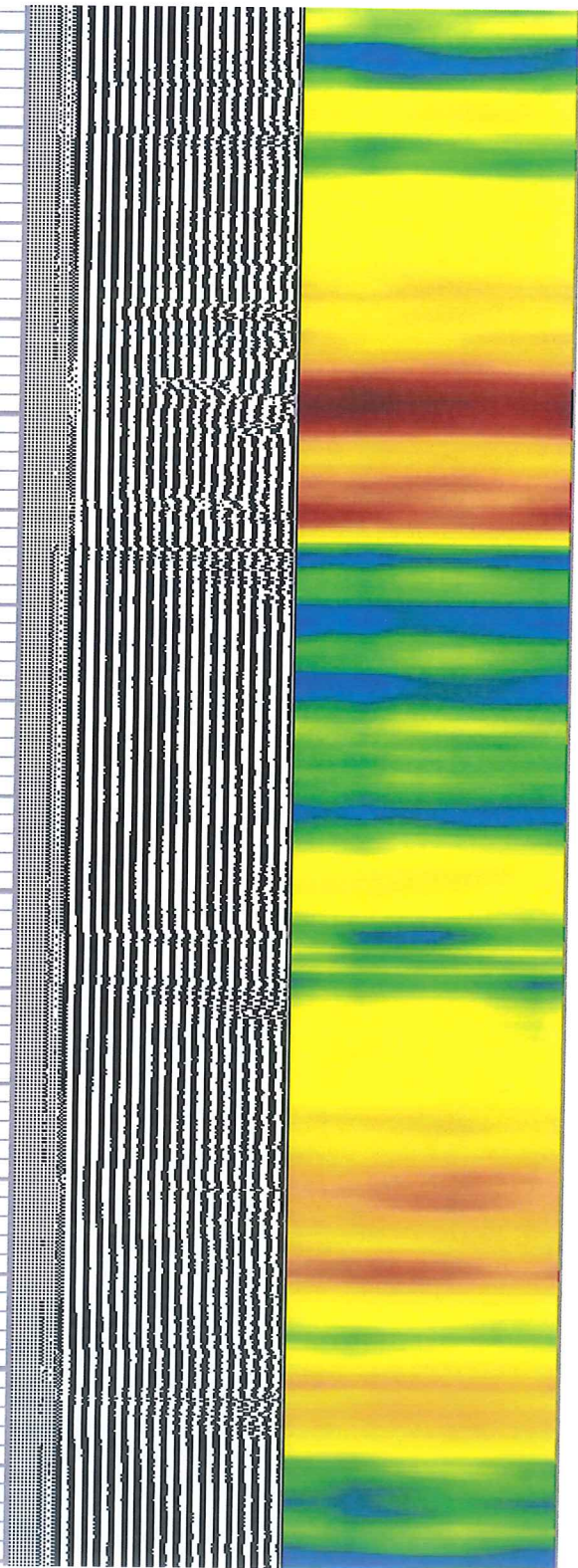
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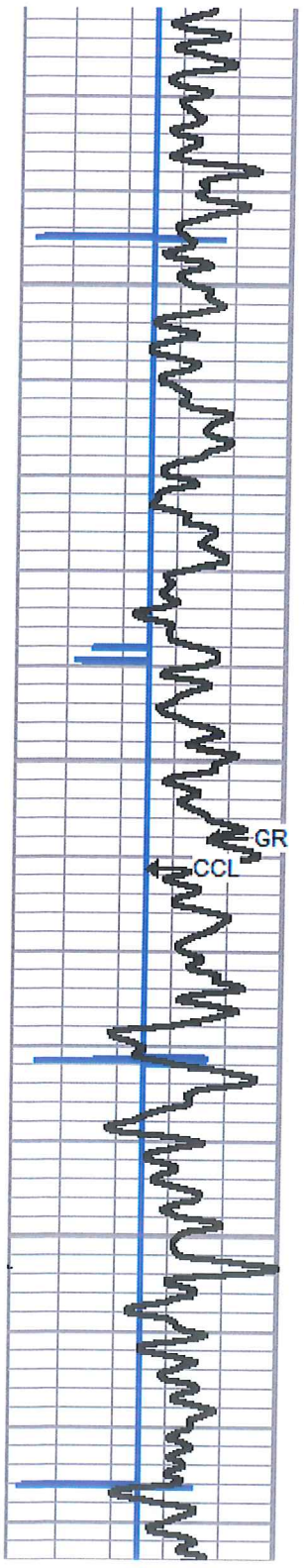
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94

96

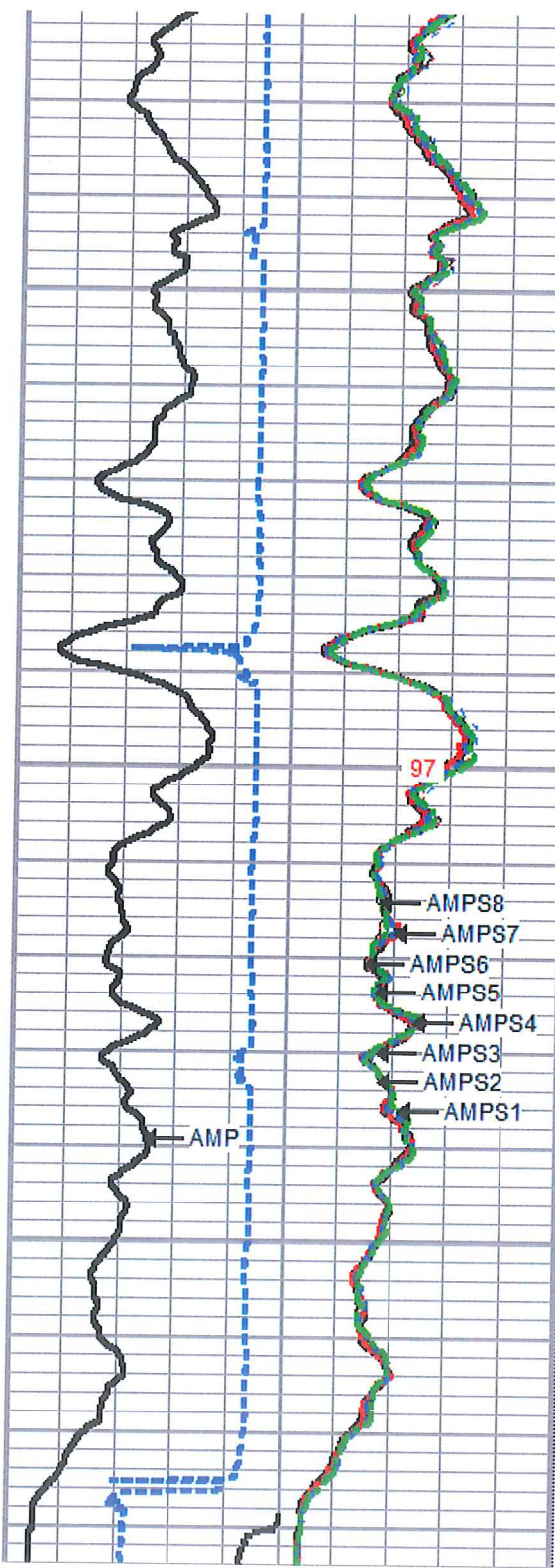




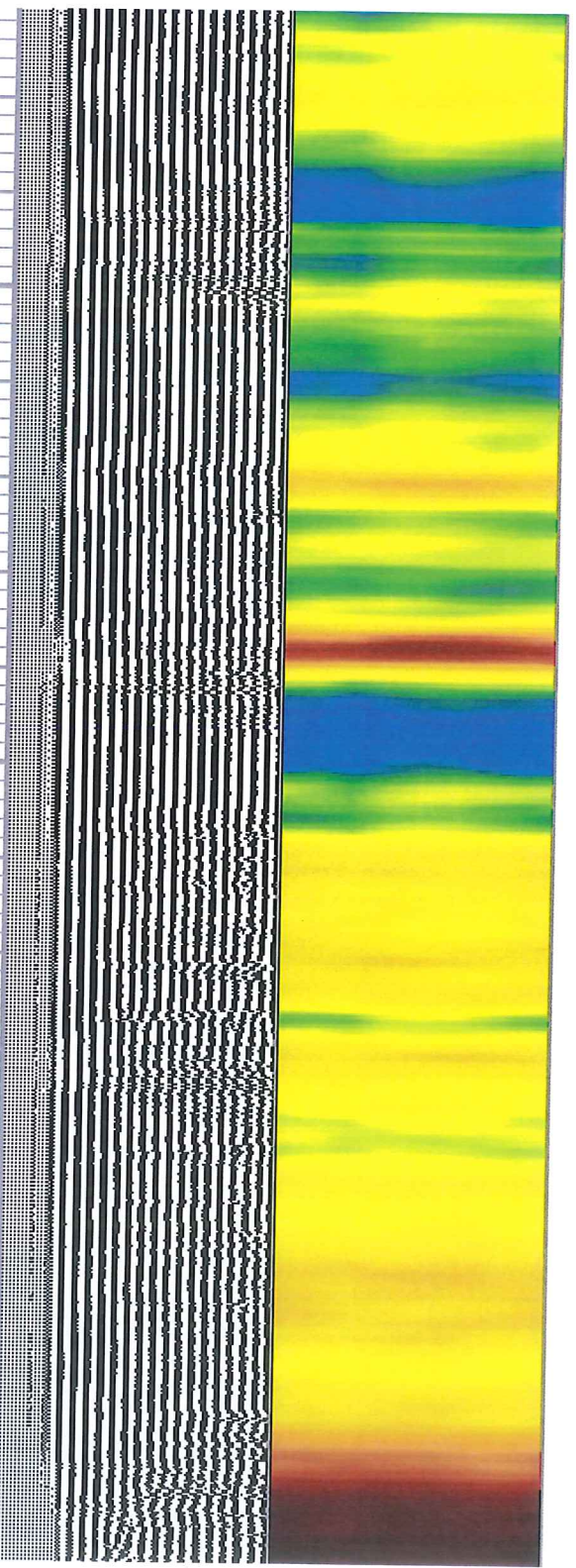
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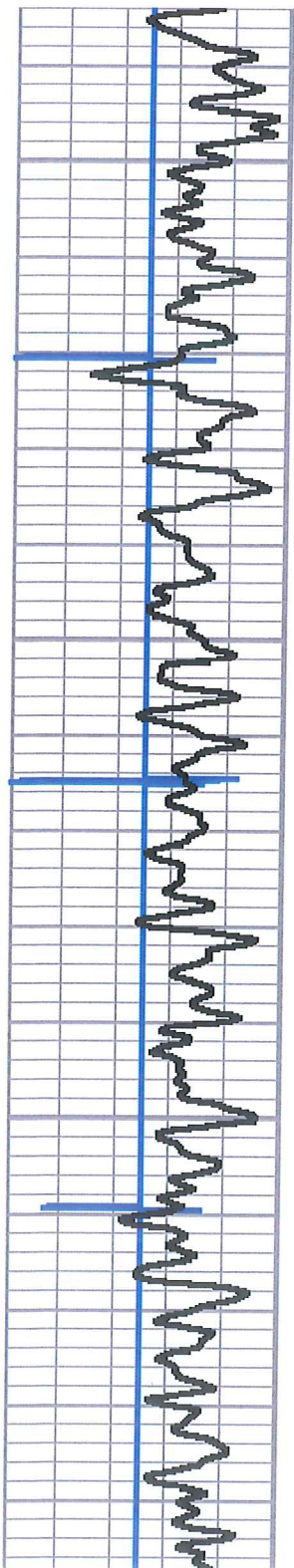
5000

5050



- AMPS8
- AMPS7
- AMPS6
- AMPS5
- AMPS4
- AMPS3
- AMPS2
- AMPS1

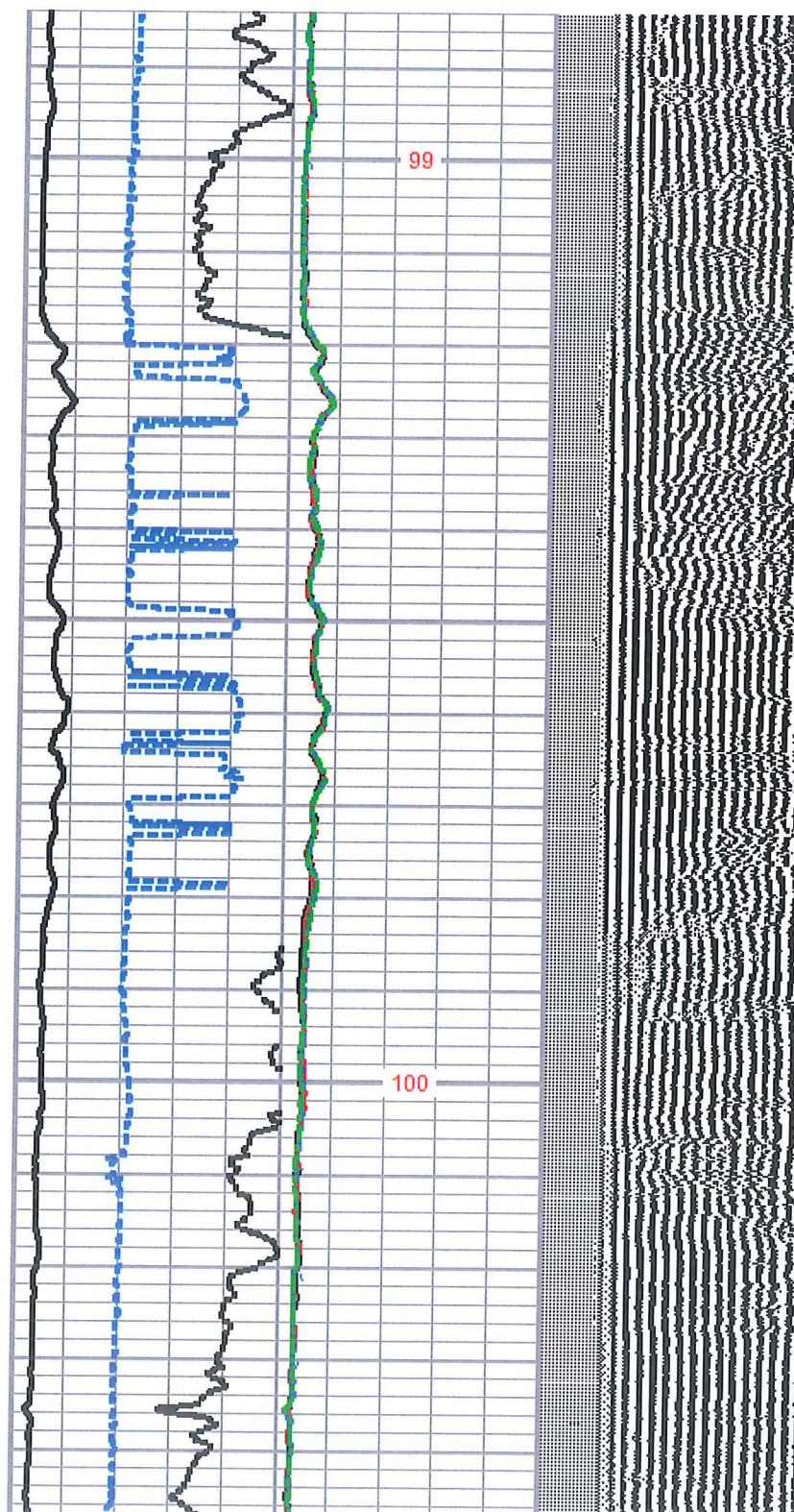




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5150

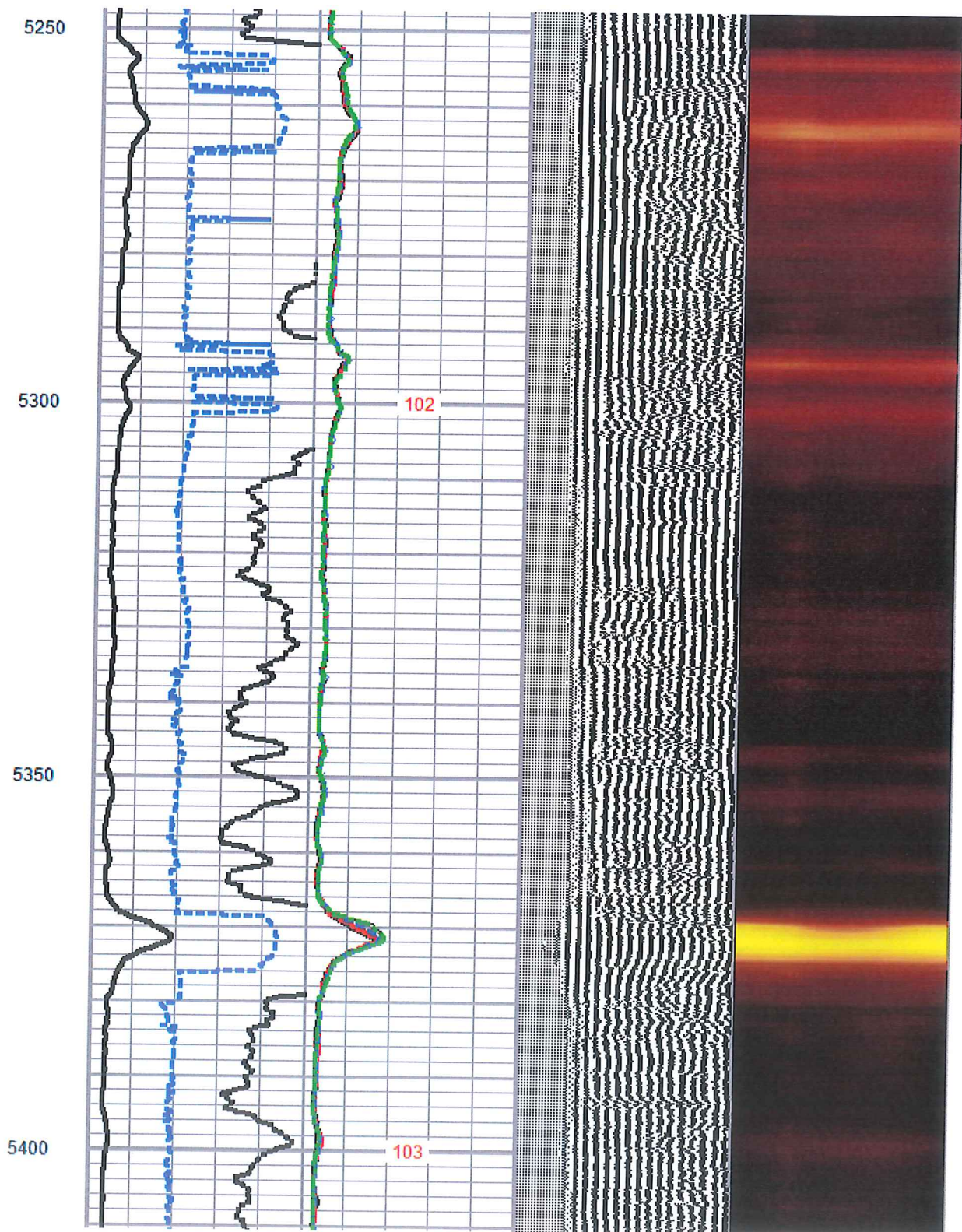
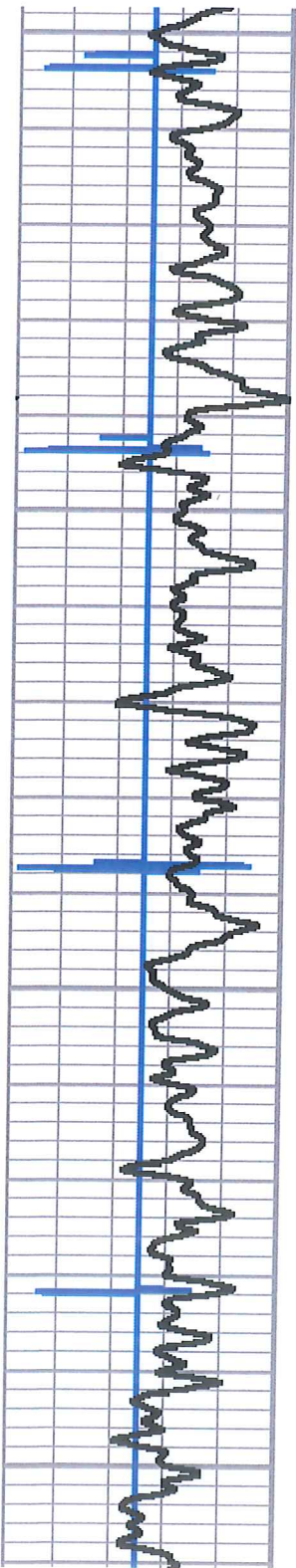
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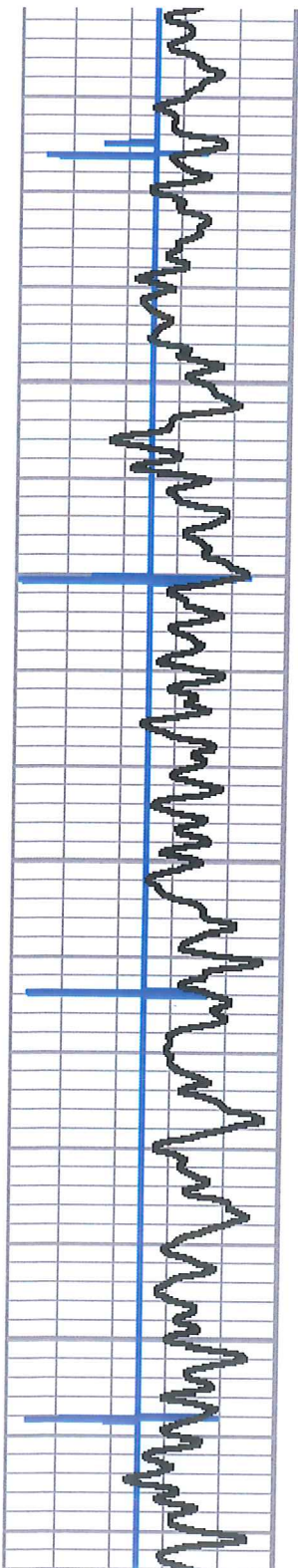


99

100



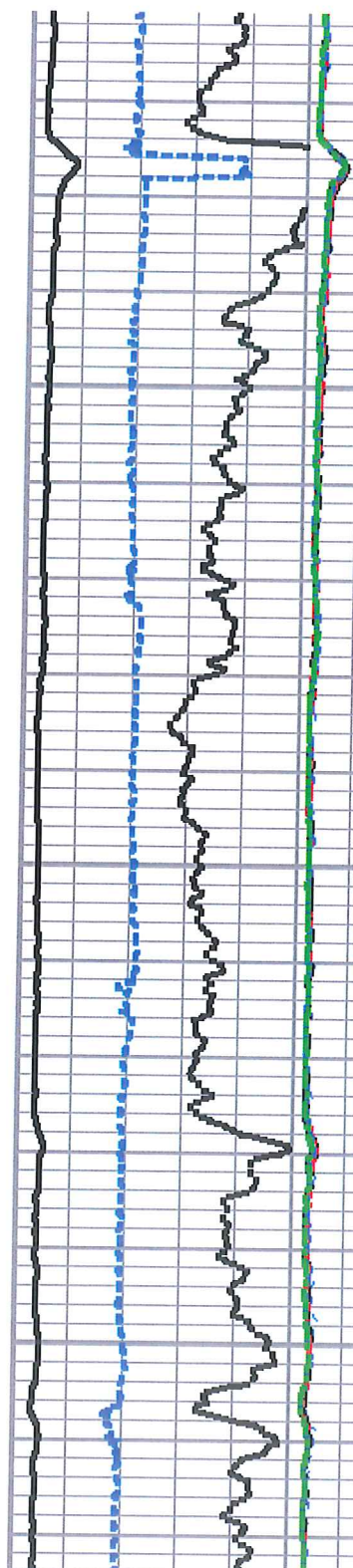




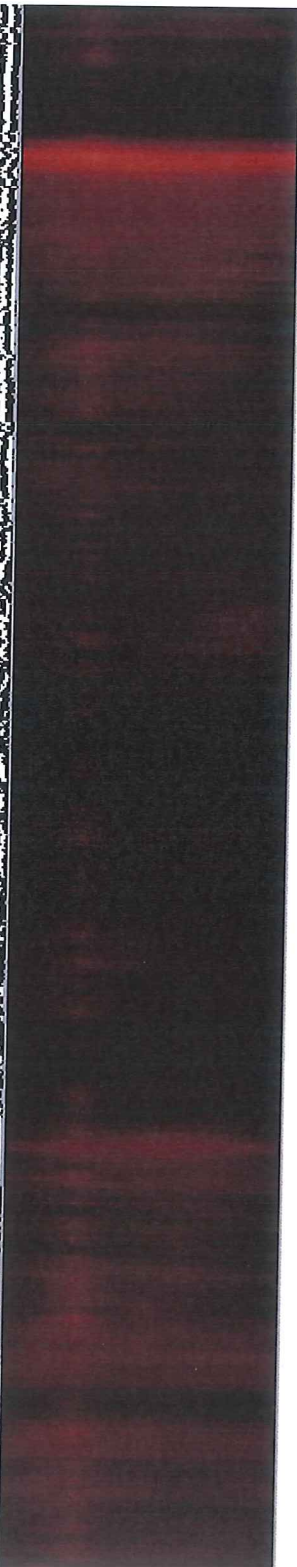
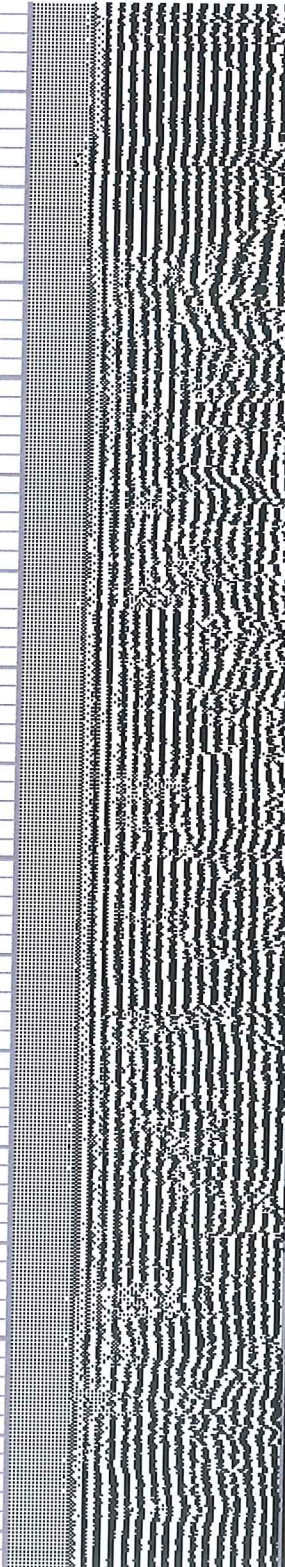
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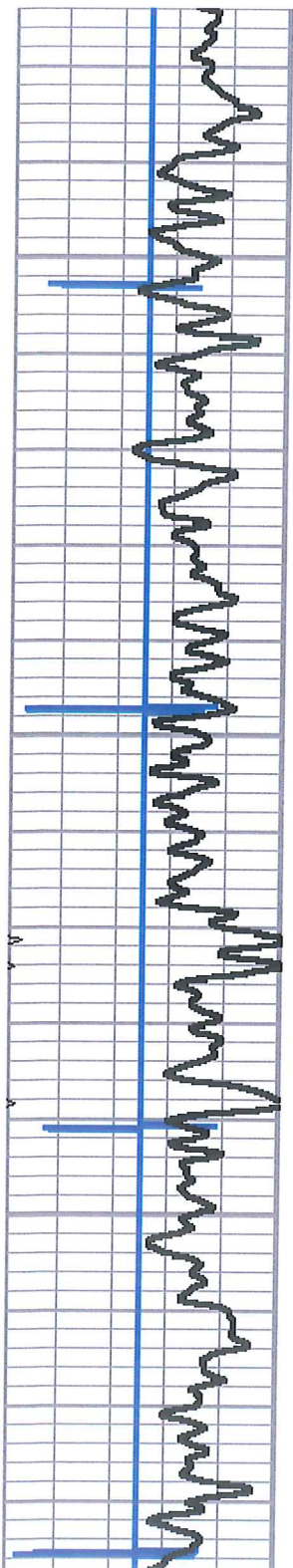
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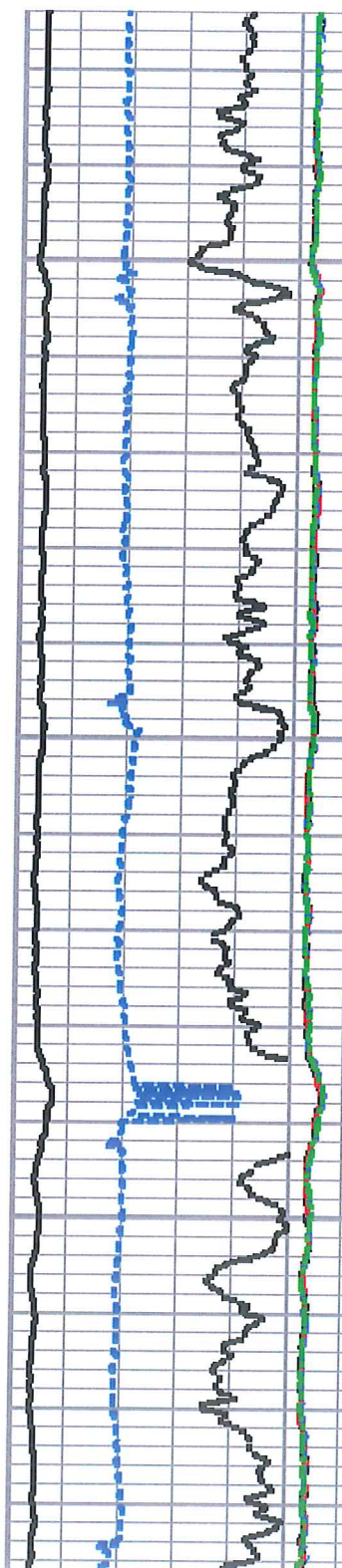


104

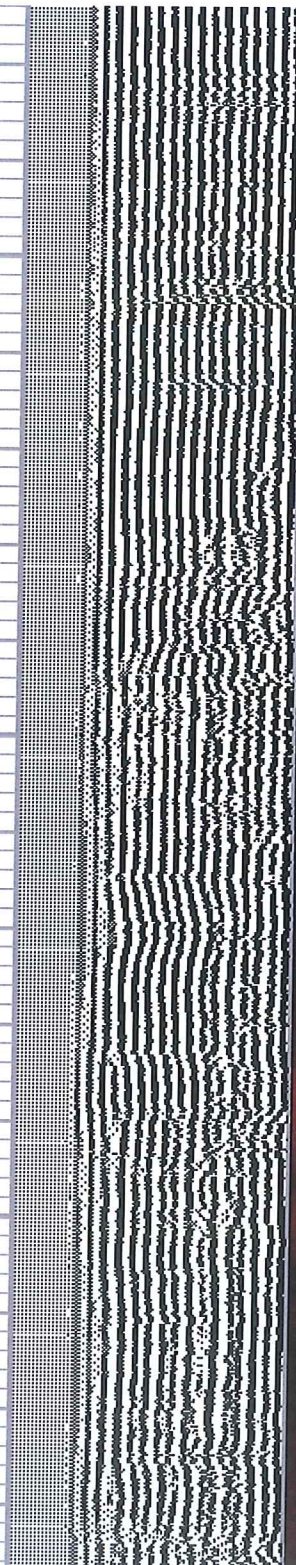


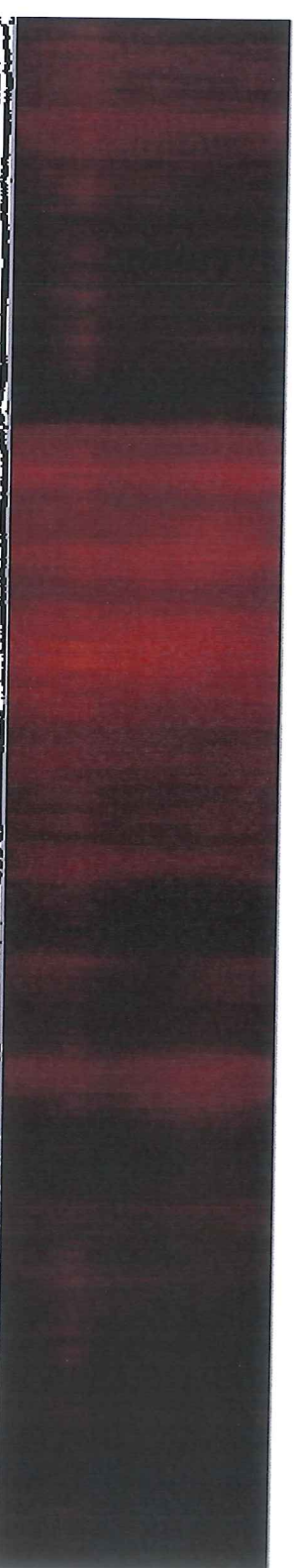
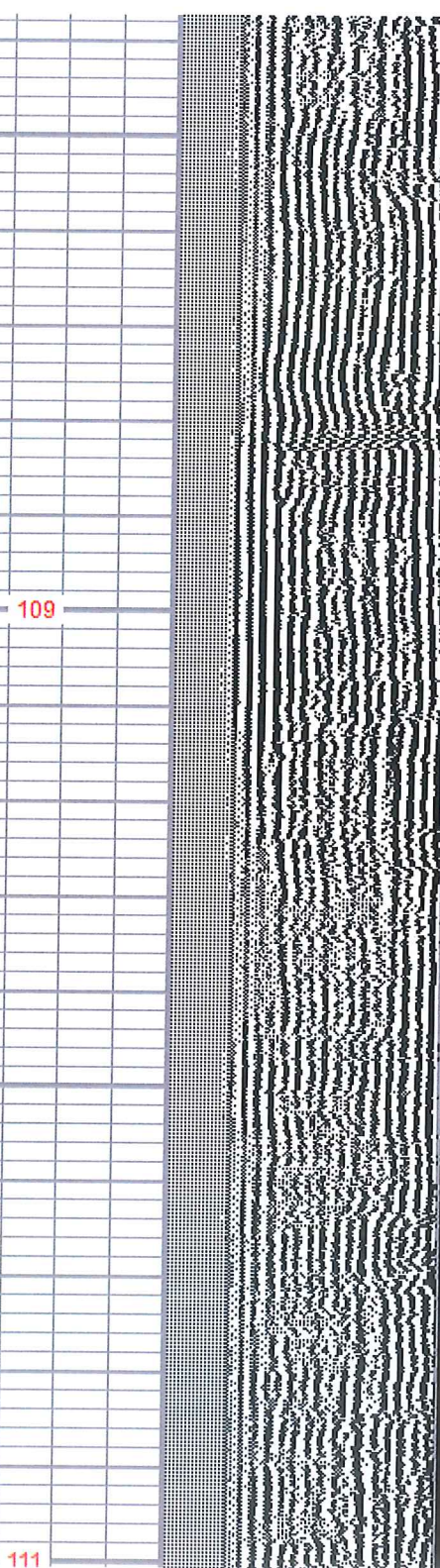
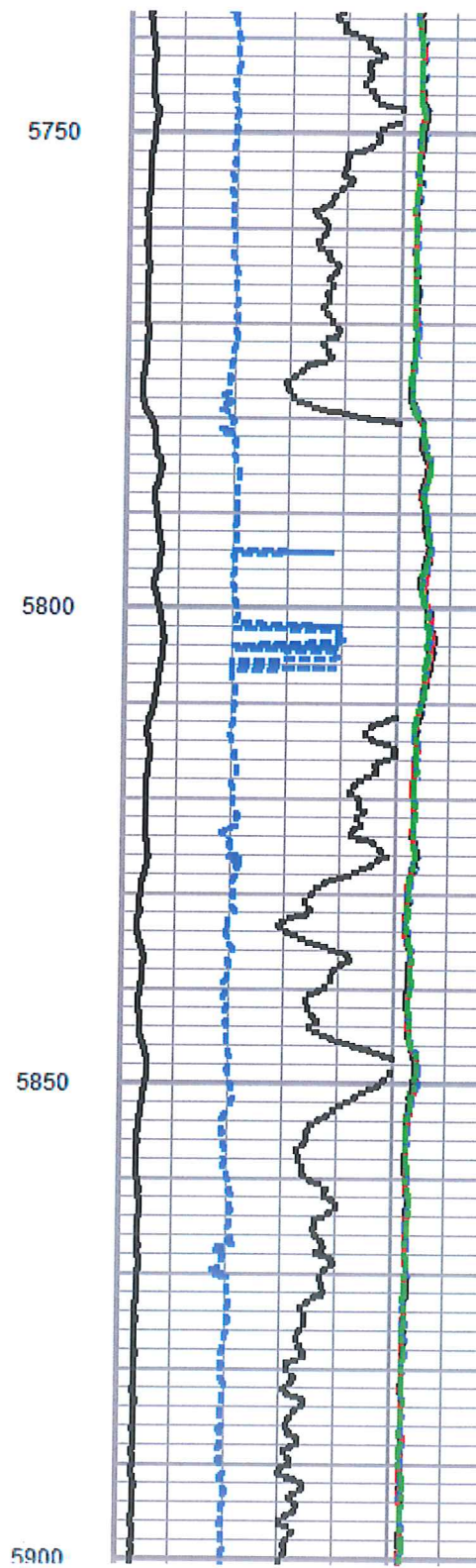
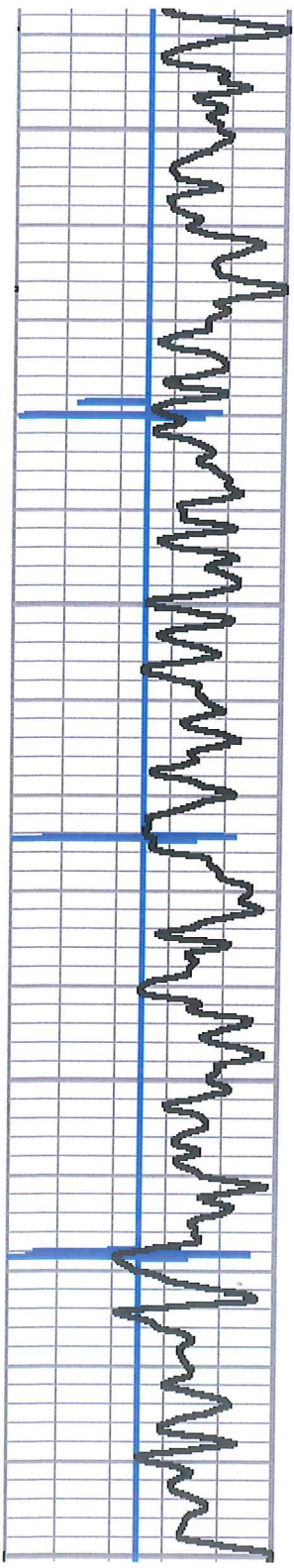


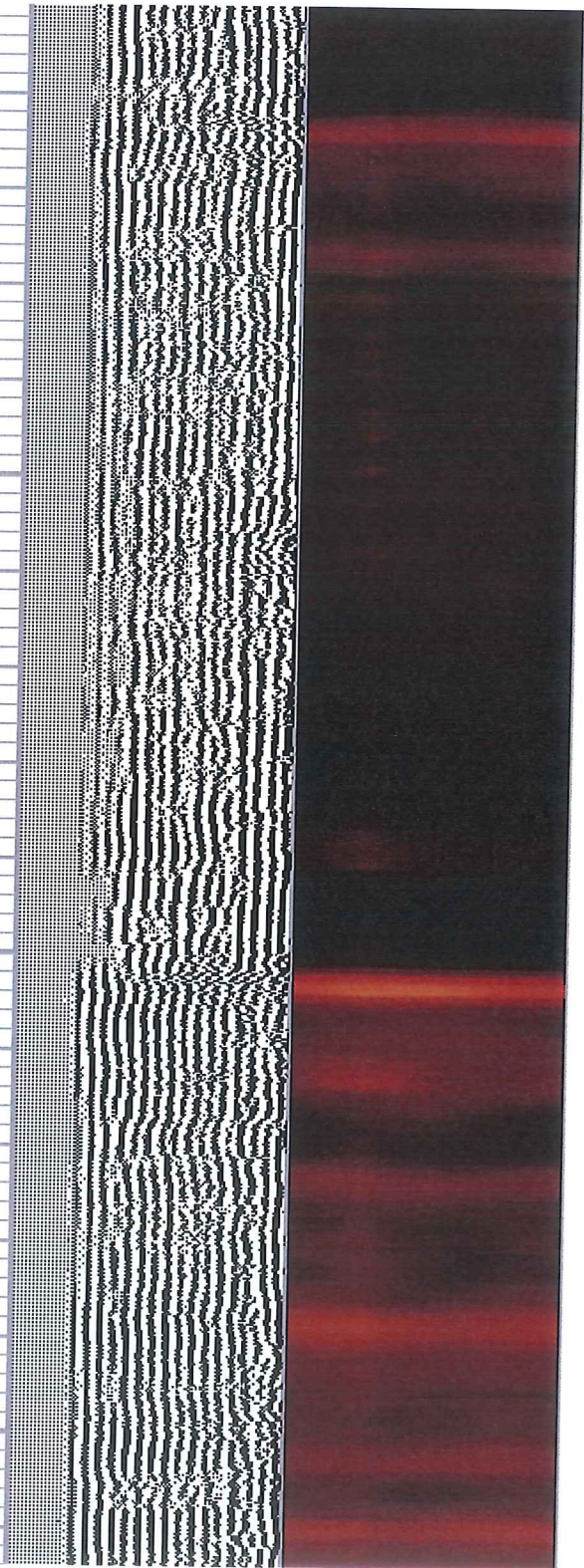
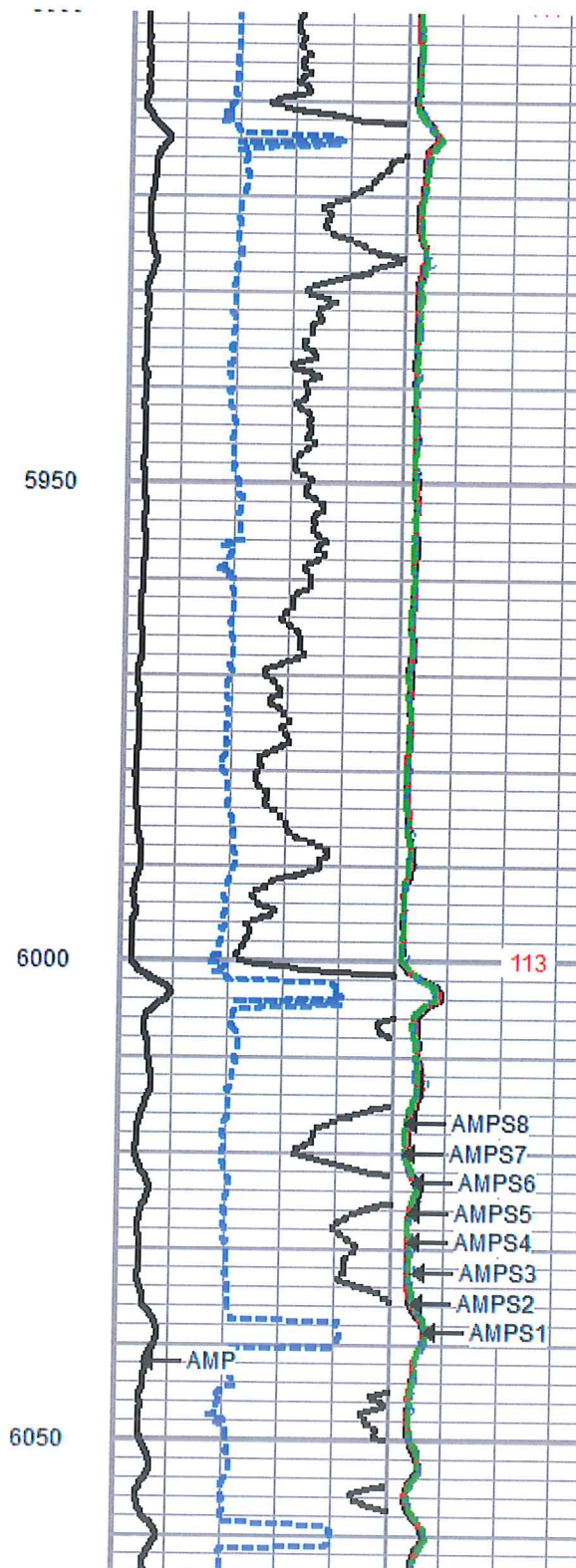
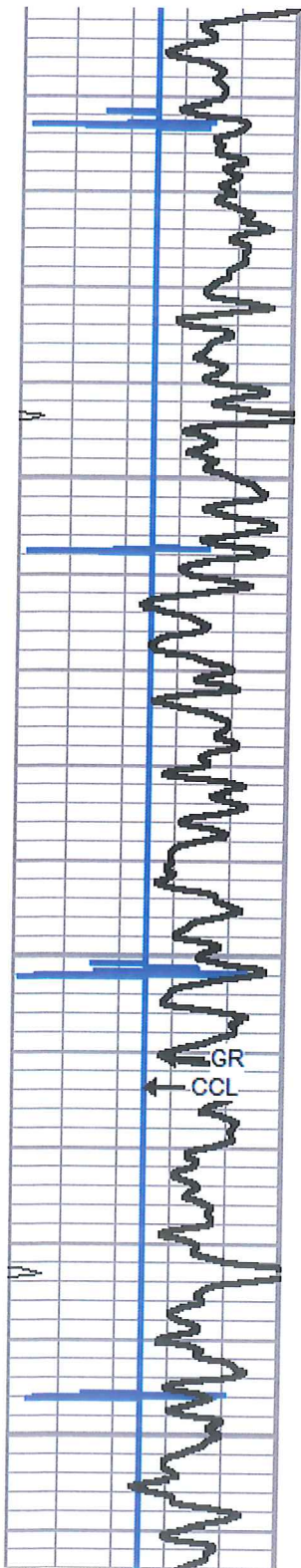
5600
5650
5700

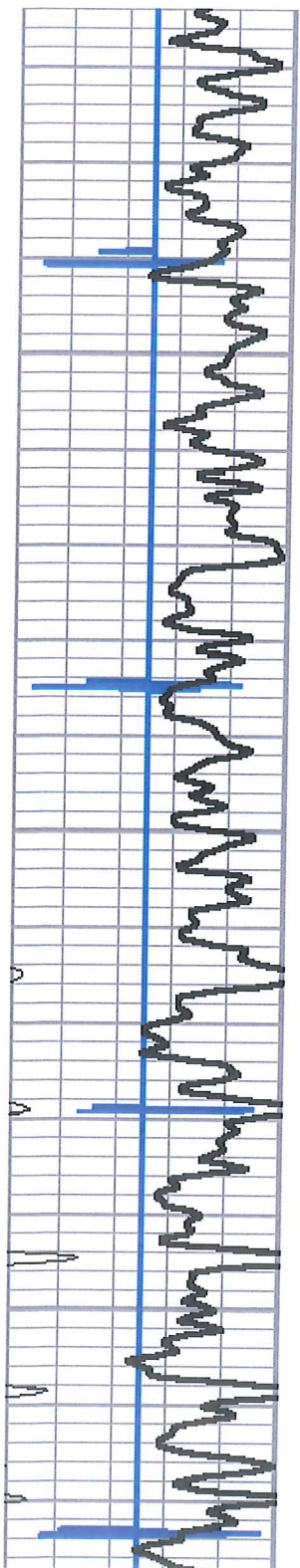


106
107





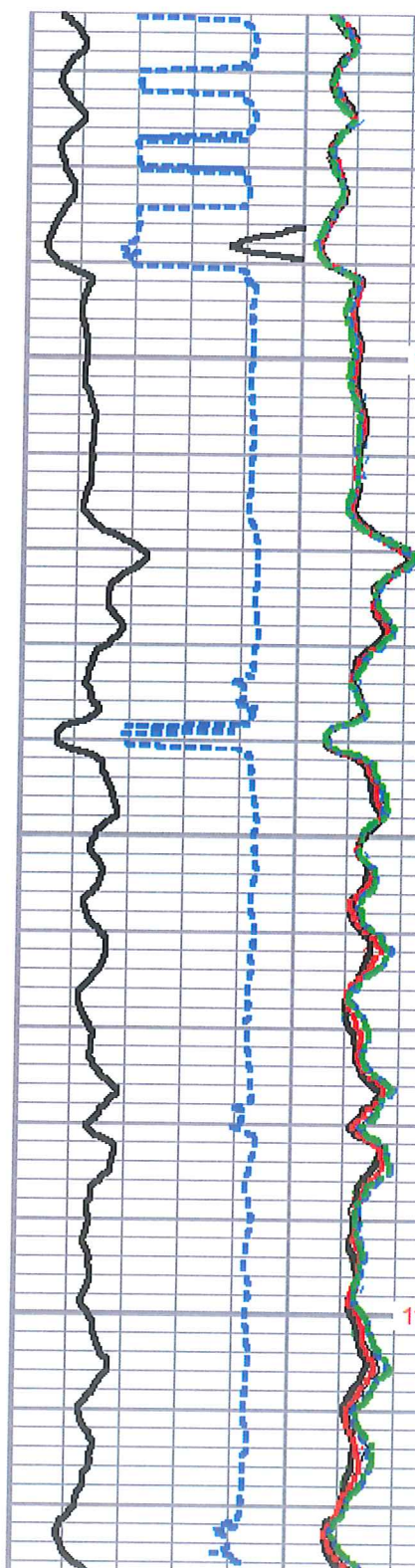




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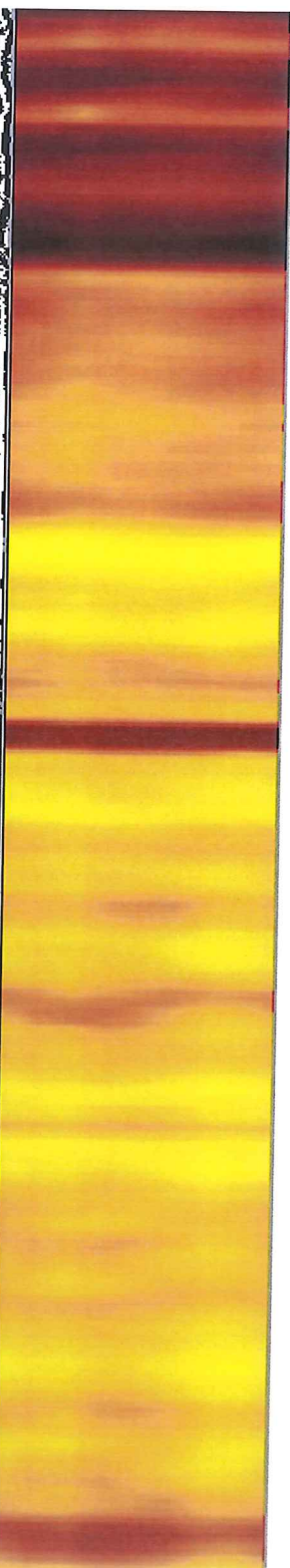
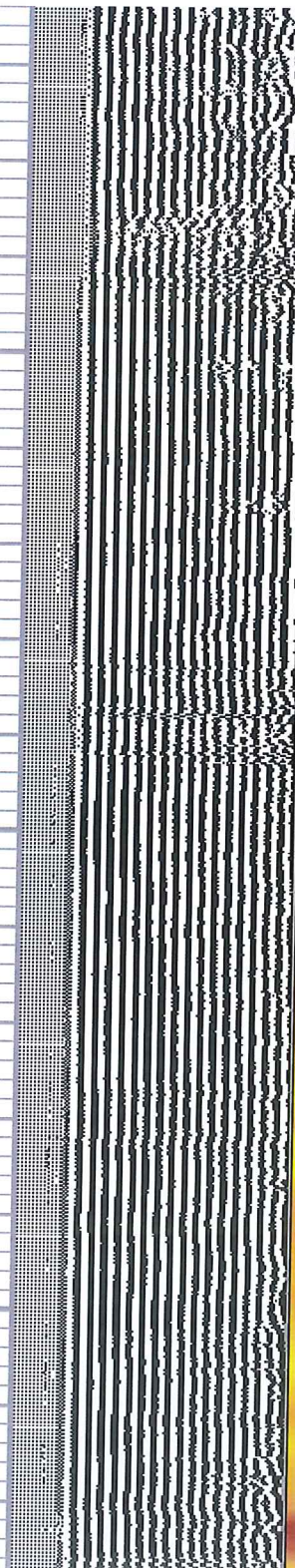
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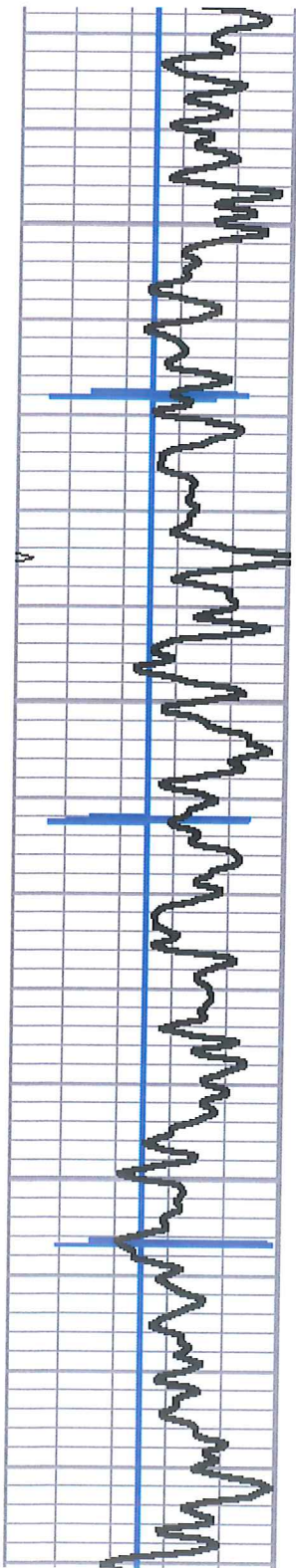
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114

116

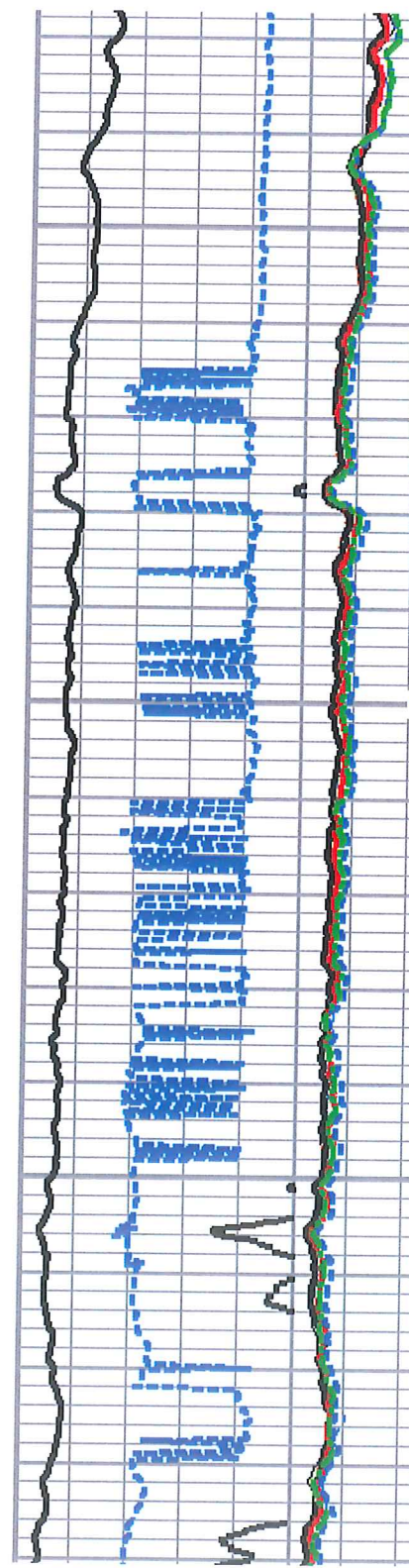




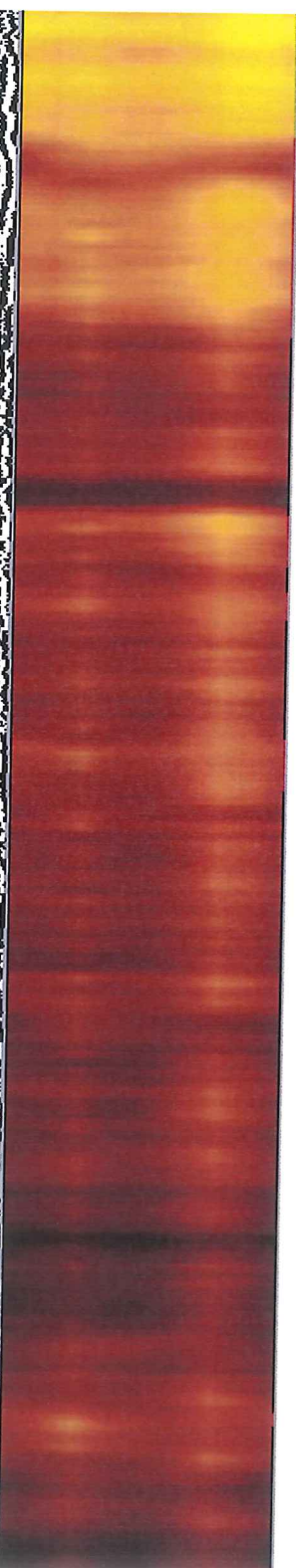
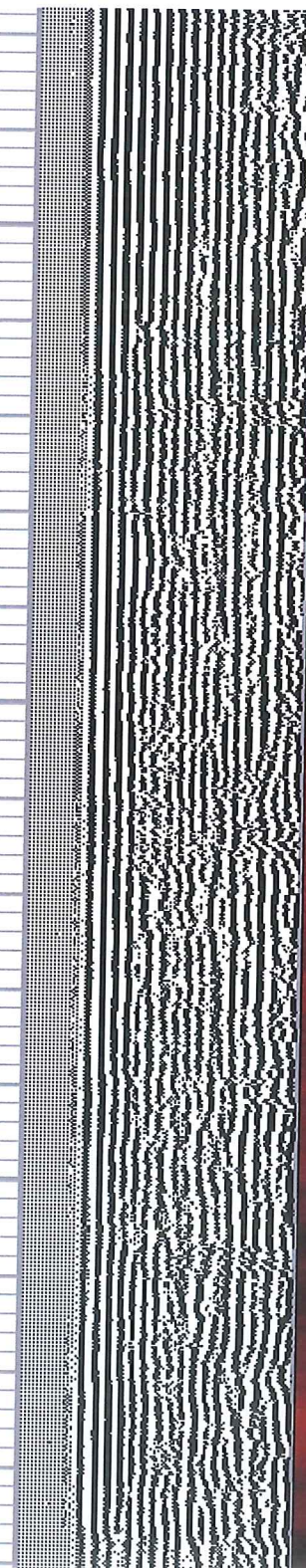
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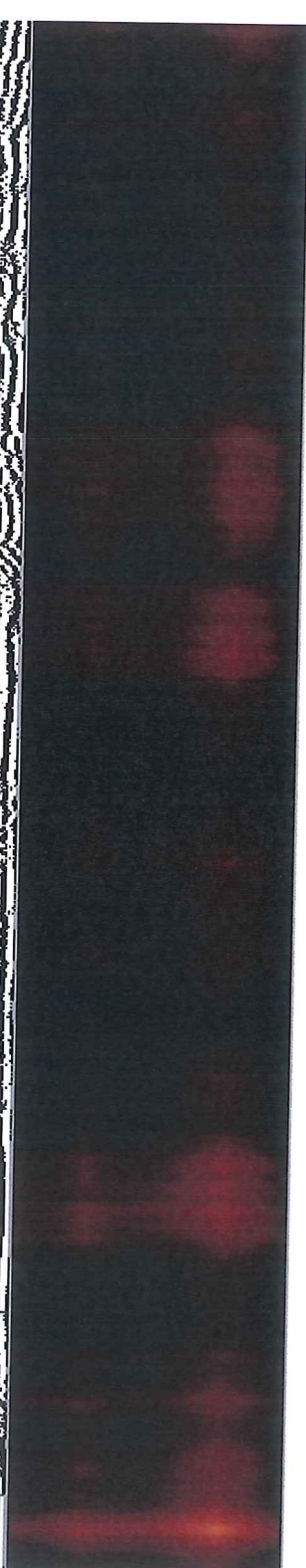
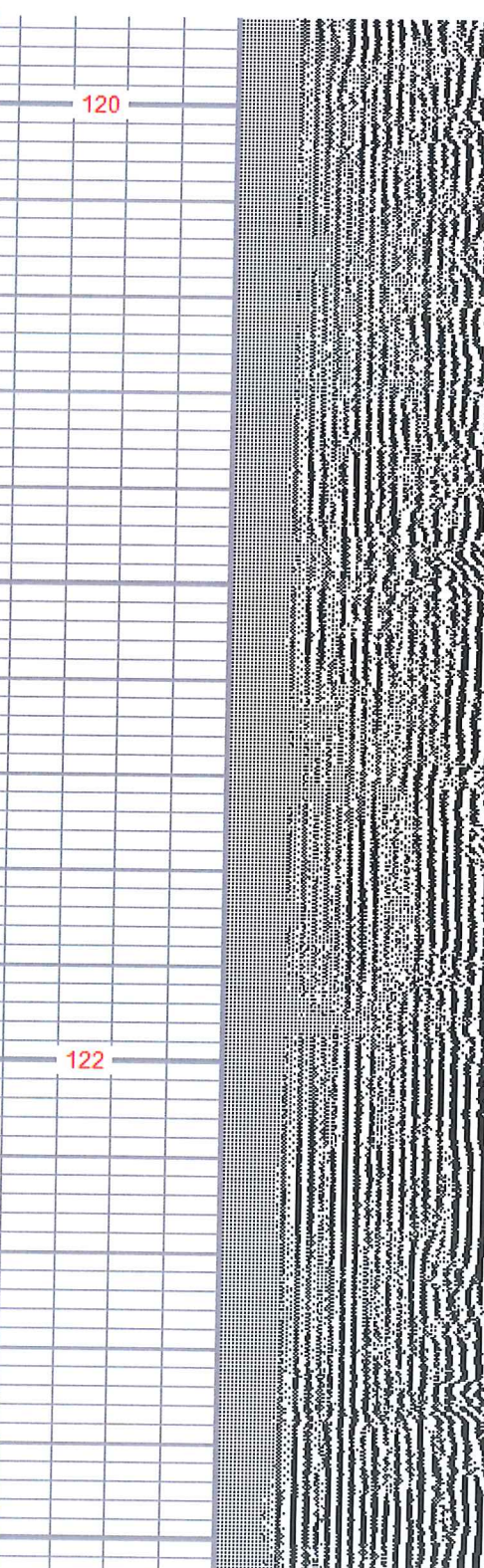
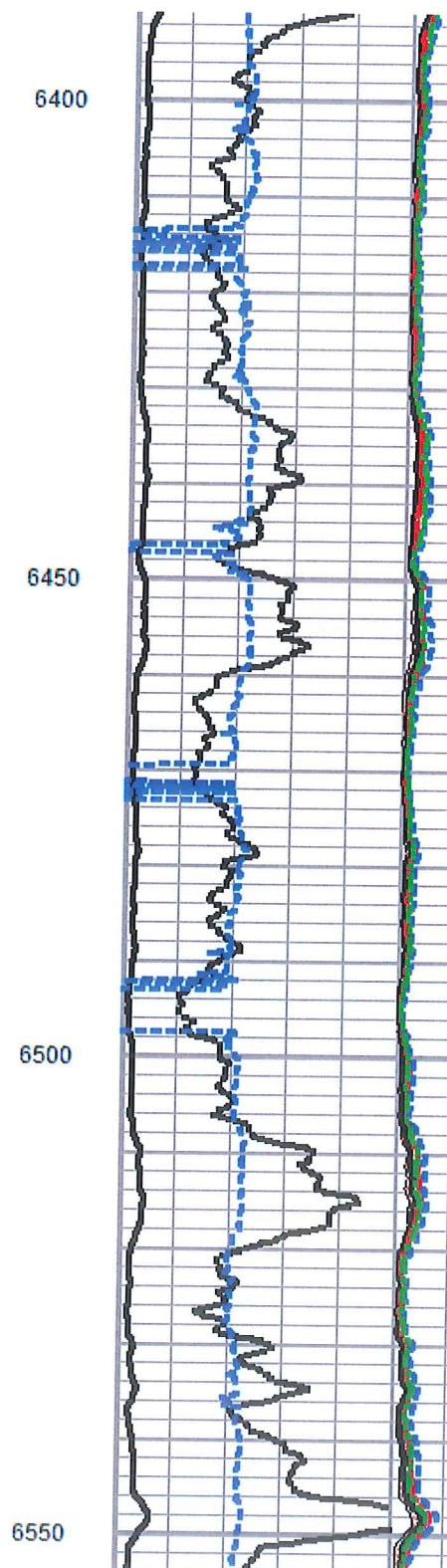
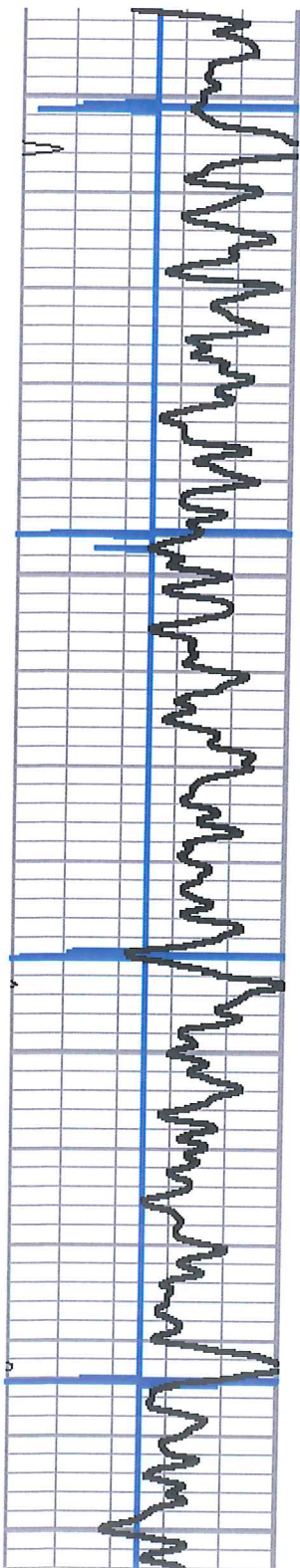
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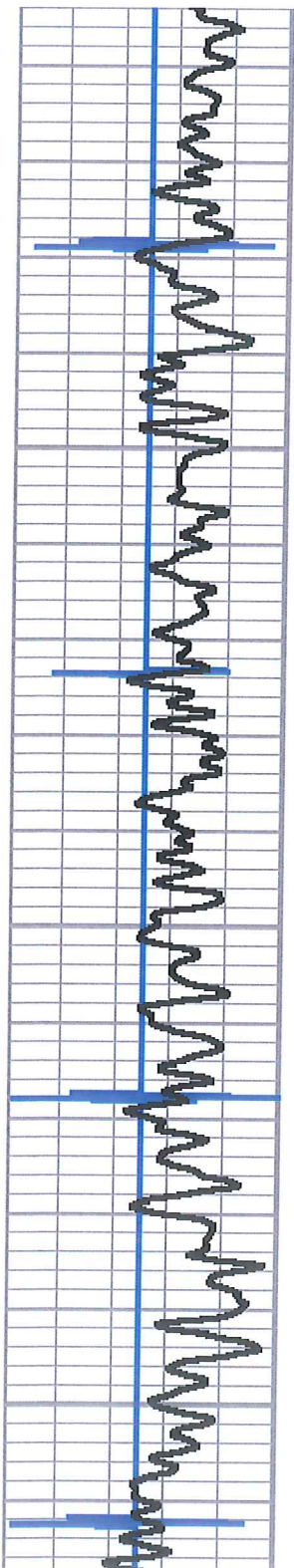
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118



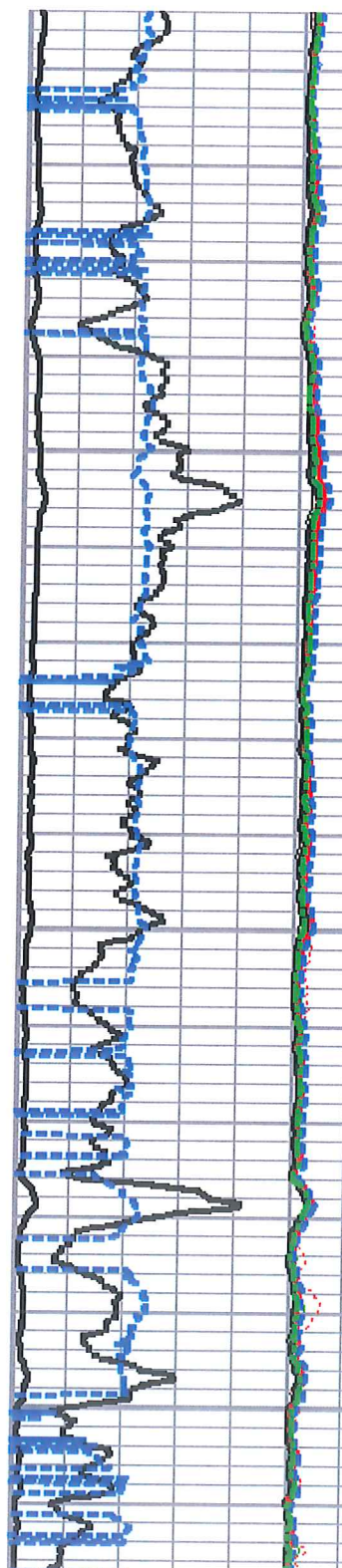




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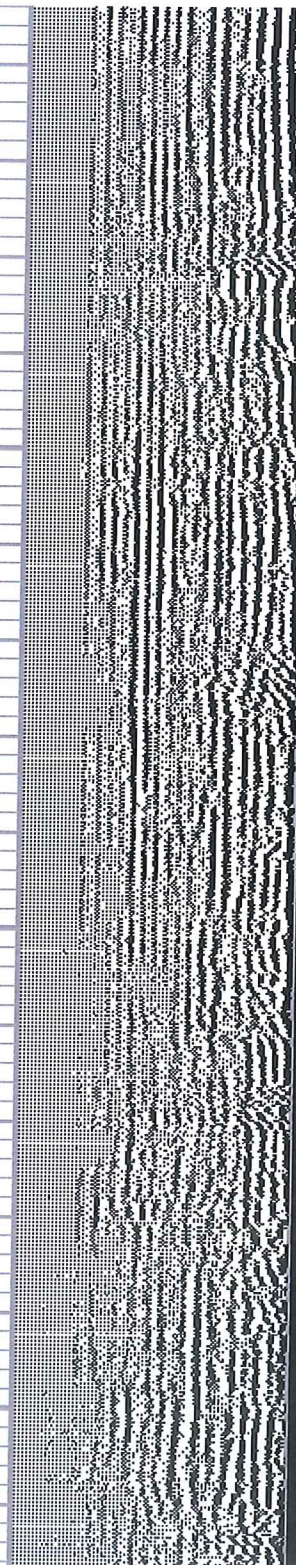
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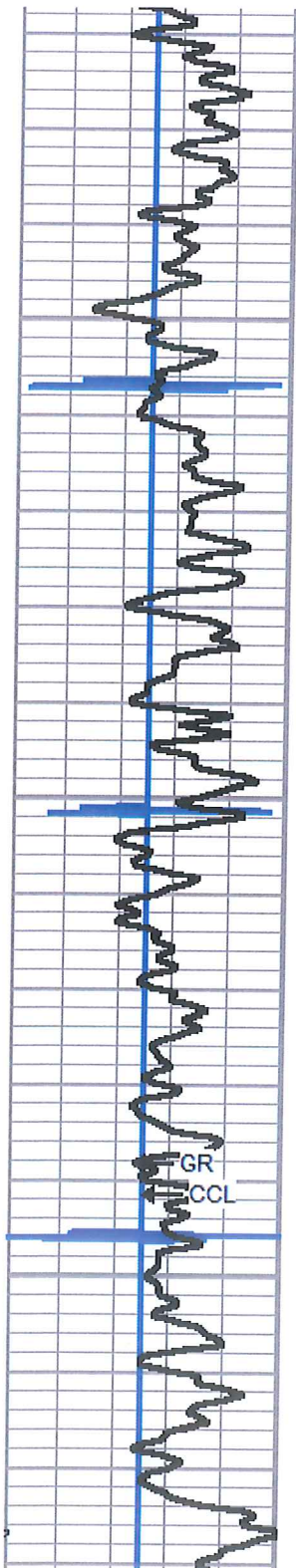
6700



123

125

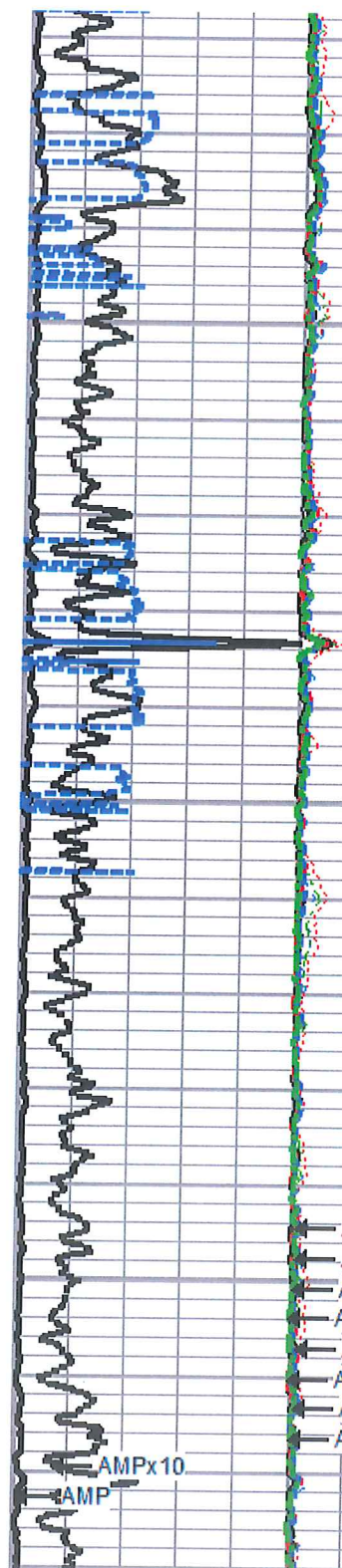




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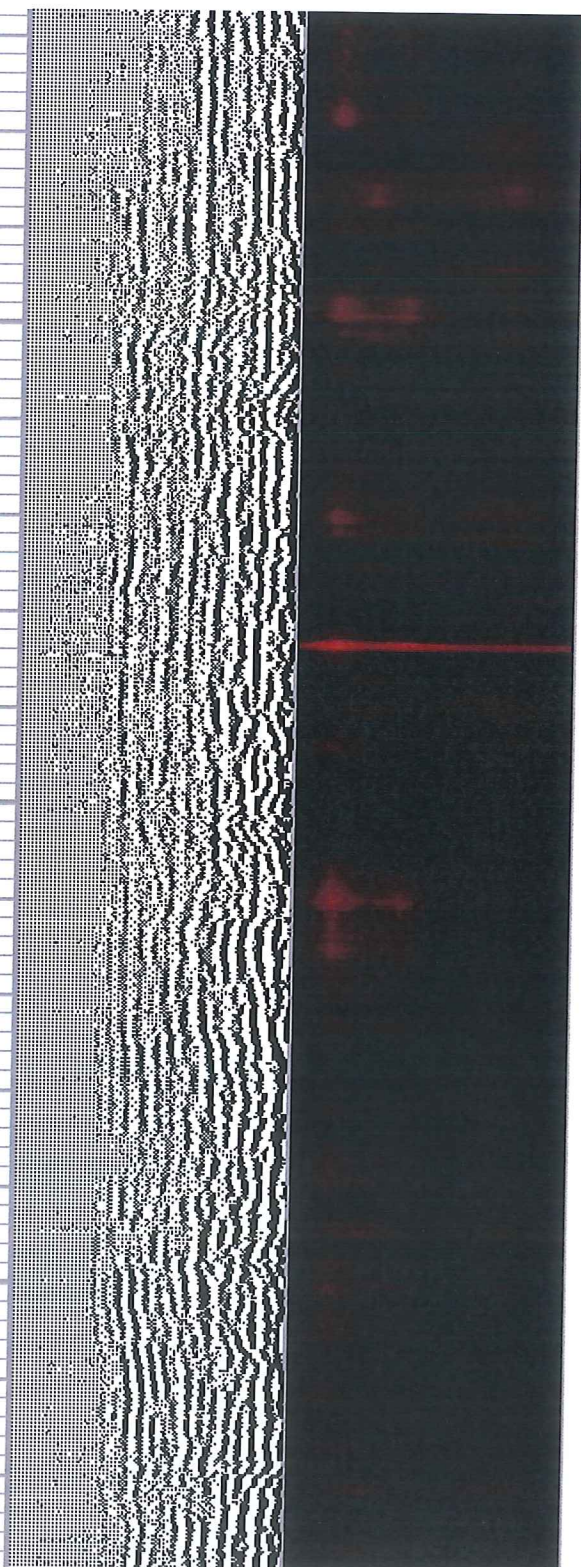
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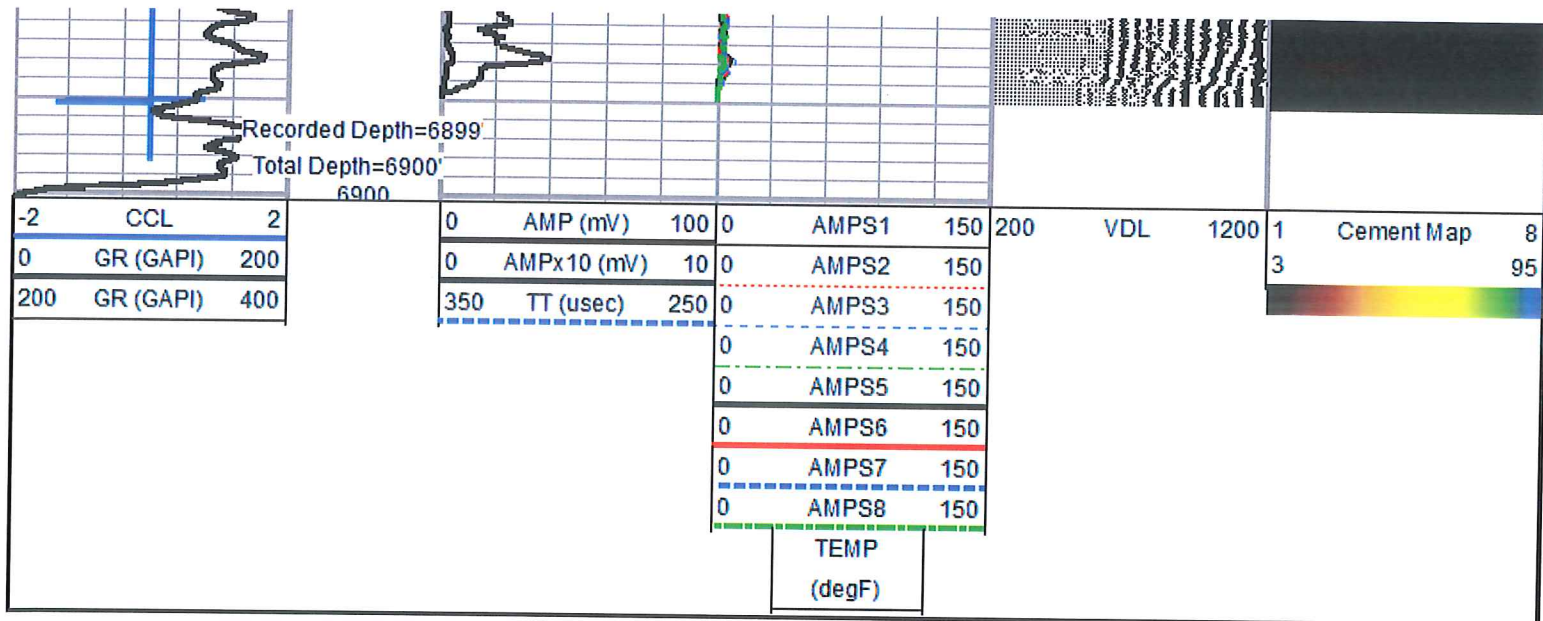



126

- AMPS8
- AMPS7
- AMPS6
- AMPS5
- AMPS4
- AMPS3
- AMPS2
- AMPS1

AMPx10
AMP



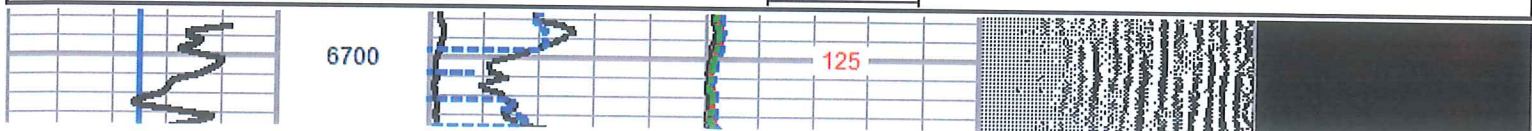


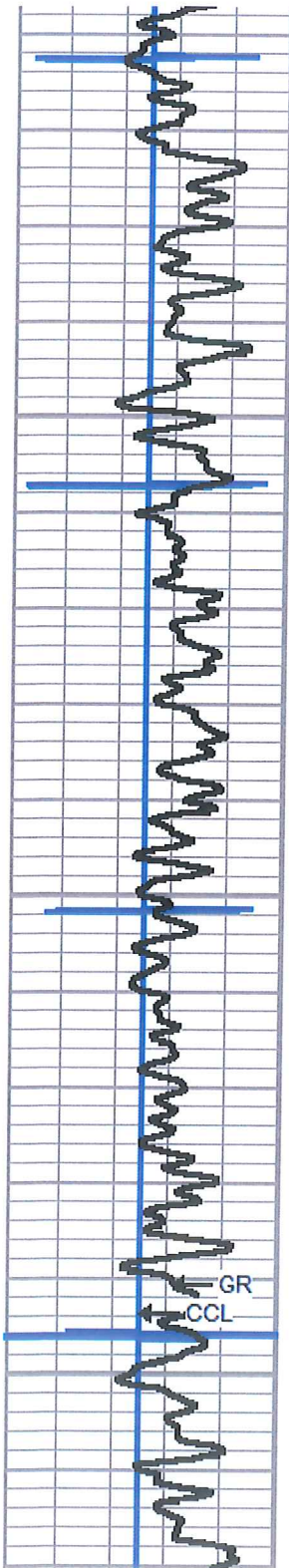


REPEAT SECTION

Database File: anne 2h.db
 Dataset Pathname: pass2
 Presentation Format: scbl02
 Dataset Creation: Sat Oct 25 12:03:19 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

-2	CCL	2	0	AMP (mV)	100	0	AMPS1	150	200	VDL	1200	1	Cement Map	8
0	GR (GAPI)	200	0	AMPx10 (mV)	10	0	AMPS2	150				3		95
200	GR (GAPI)	400	350	TT (usec)	250	0	AMPS3	150						
						0	AMPS4	150						
						0	AMPS5	150						
						0	AMPS6	150						
						0	AMPS7	150						
						0	AMPS8	150						
							TEMP							
							(degF)							

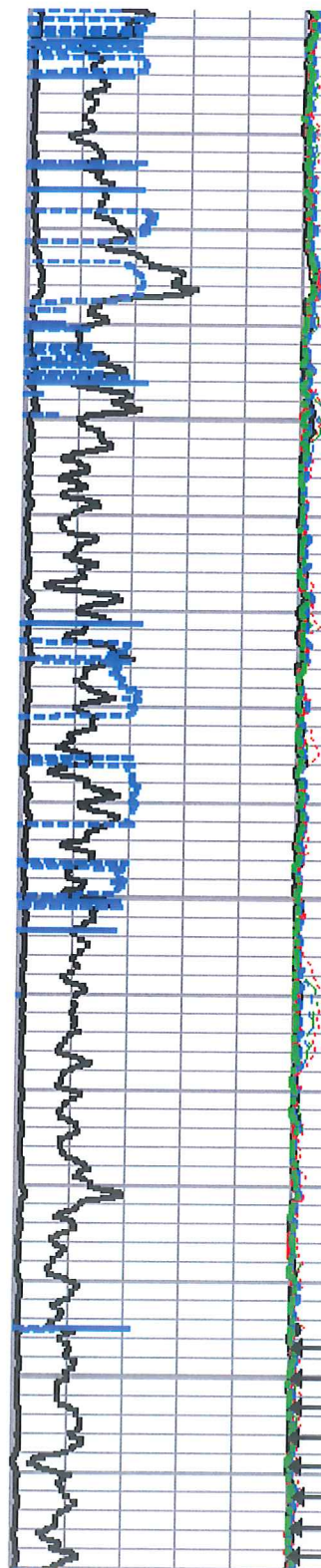




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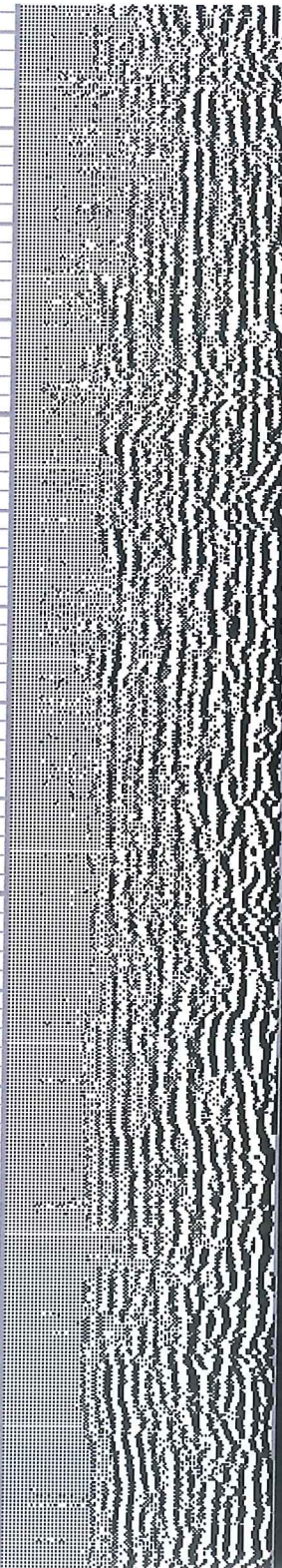
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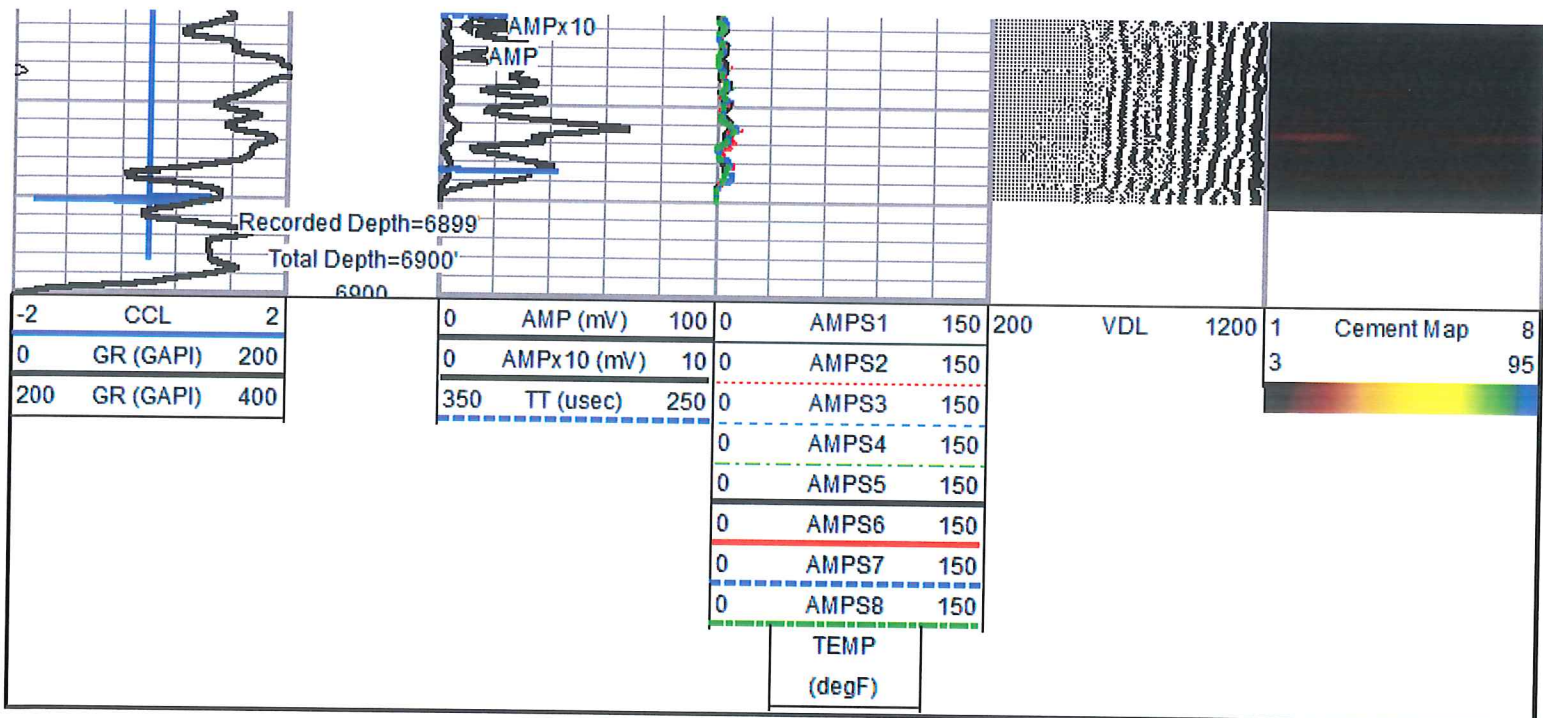
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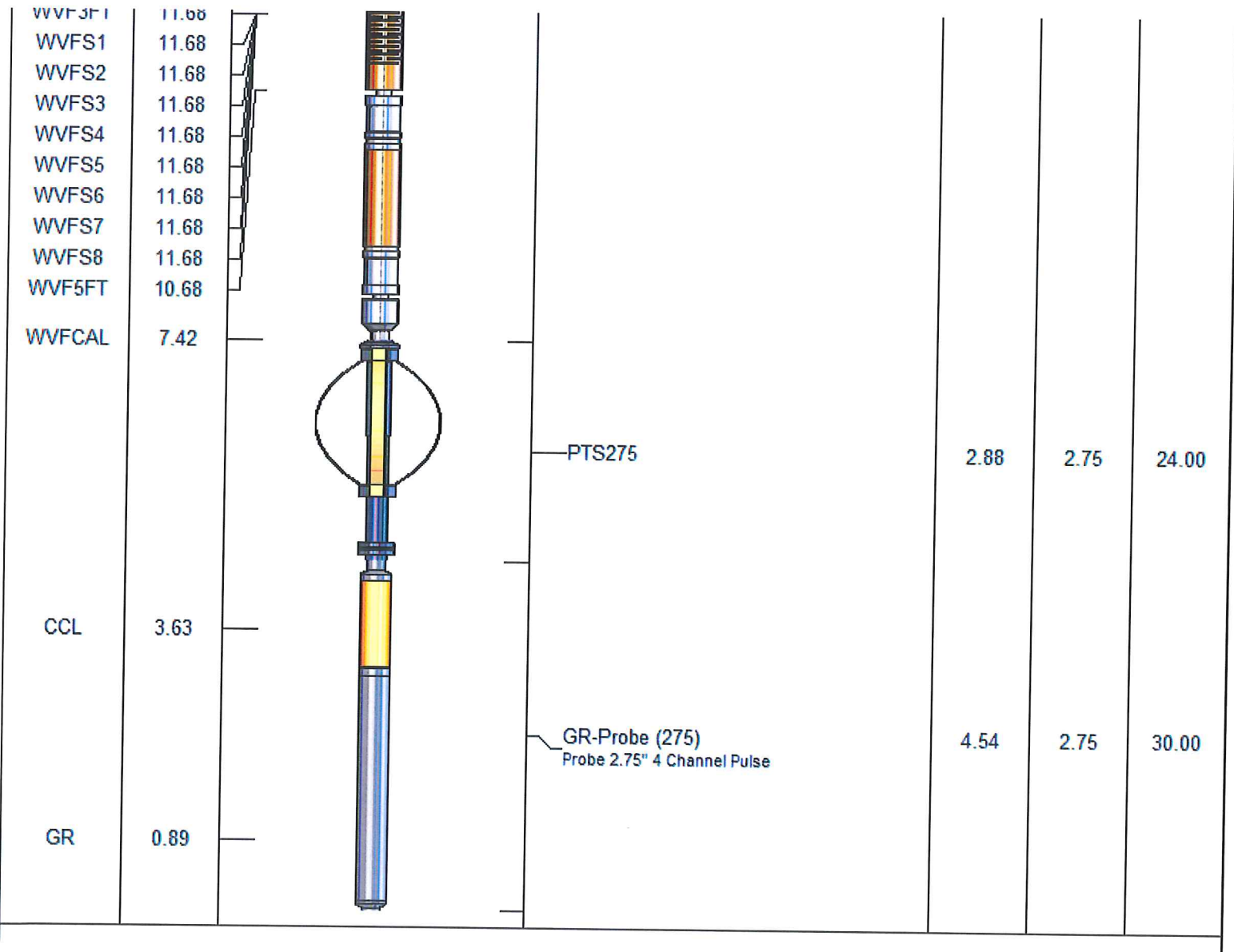
126

- AMPS8
- AMPS7
- AMPS6
- AMPS5
- AMPS4
- AMPS3
- AMPS2
- AMPS1





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
HeadVolt	16.76		PTS275	2.88	2.75	24.00
Temp	13.91					
RBT-Probe275T	11.00			RBT-Probe275T (FW1404-143_5.5INCH) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75



Dataset:	anne 2h.db: field/well/run1/pass3
Total Length:	19.70 ft
Total Weight:	178.00 lb
O.D.	2.75 in