



**RADIAL BOND GAMMA RAY-CCL  
TEMP**

Company ANTERO RESOURCES  
Well WHITE UNIT 1H  
Field GREENBRIER  
County HARRISON  
State WV.  
Country USA

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Location: API #: 47017061820000 Other Services

Permanent Datum	G.L.	Elevation	971'	Elevation
Log Measured From	K.B.23'			K.B. 994'
Drilling Measured From	K.B.23'			D.F. 993'
				G.L. 971'

Date	9-19-14
Run Number	ONE
Depth Driller	
Depth Logger	7025'
Bottom Logged Interval	7024'
Top Log Interval	0'
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	156'
Estimated Cement Top	3700'
Time Well Ready	6:00PM
Time Logger on Bottom	6:40PM
Equipment Number	5982
Location	CLARKSBURG WV.
Recorded By	E.BUTCHER
Witnessed By	CURT ANDERSON

Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Weight	Top	Bottom			
Surface String							
Prod String							
Production String	5.5"	23LBS.	0"	16621'			
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.23'

Calibration Report

Database File: white 1h.db  
Dataset Pathname: pass4  
Dataset Creation: Fri Sep 19 18:24:53 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:	FW1404-41_5.5INCH	
Tool Model:	Probe275T	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	3203.908	ft

Master Calibration, performed Thu Sep 11 12:32:32 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	1.034	1.000	71.921	69.380	0.214
CAL	0.009	0.011				
5'	0.010	1.000	1.000	71.921	71.615	0.315
SUM						
S1	0.005	1.138	0.000	100.000	88.265	-0.428
S2	0.010	1.118	0.000	100.000	90.219	-0.893
S3	0.009	0.260	0.000	100.000	399.395	-3.749
S4	0.010	1.080	0.000	100.000	93.410	-0.924
S5	0.010	1.142	0.000	100.000	88.351	-0.861
S6	0.010	1.220	0.000	100.000	82.661	-0.854
S7	0.011	1.274	0.000	100.000	79.172	-0.858
S8	0.011	1.252	0.000	100.000	80.600	-0.914

Internal Reference Calibration, performed Tue Aug 05 12:36:05 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.009	0.011	1.000	0.000

Air Zero Calibration, performed Tue Aug 05 12:36:36 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Gain	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

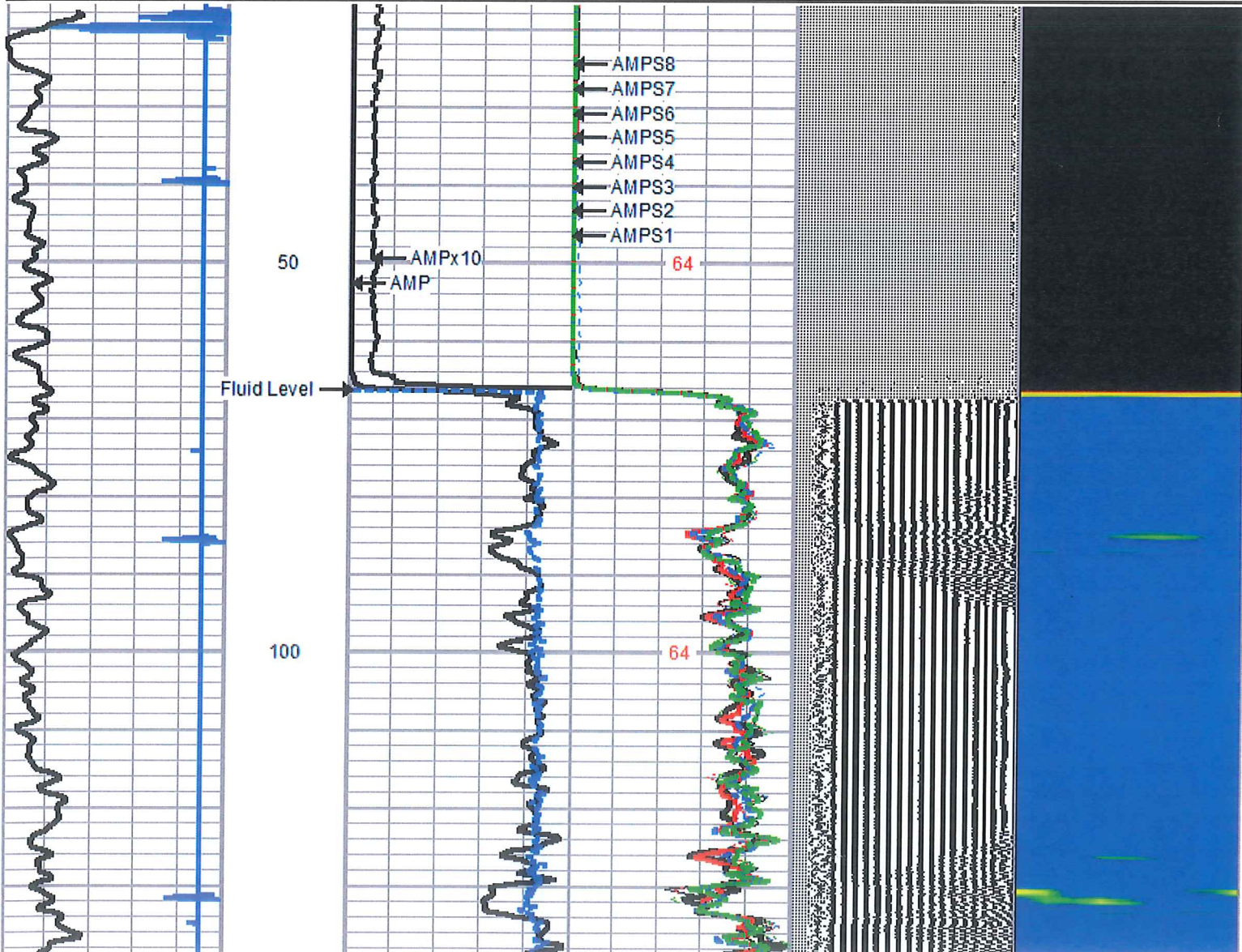
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Presentation Format: scbl02  
Dataset Creation: Fri Sep 19 18:30:20 2014 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:240

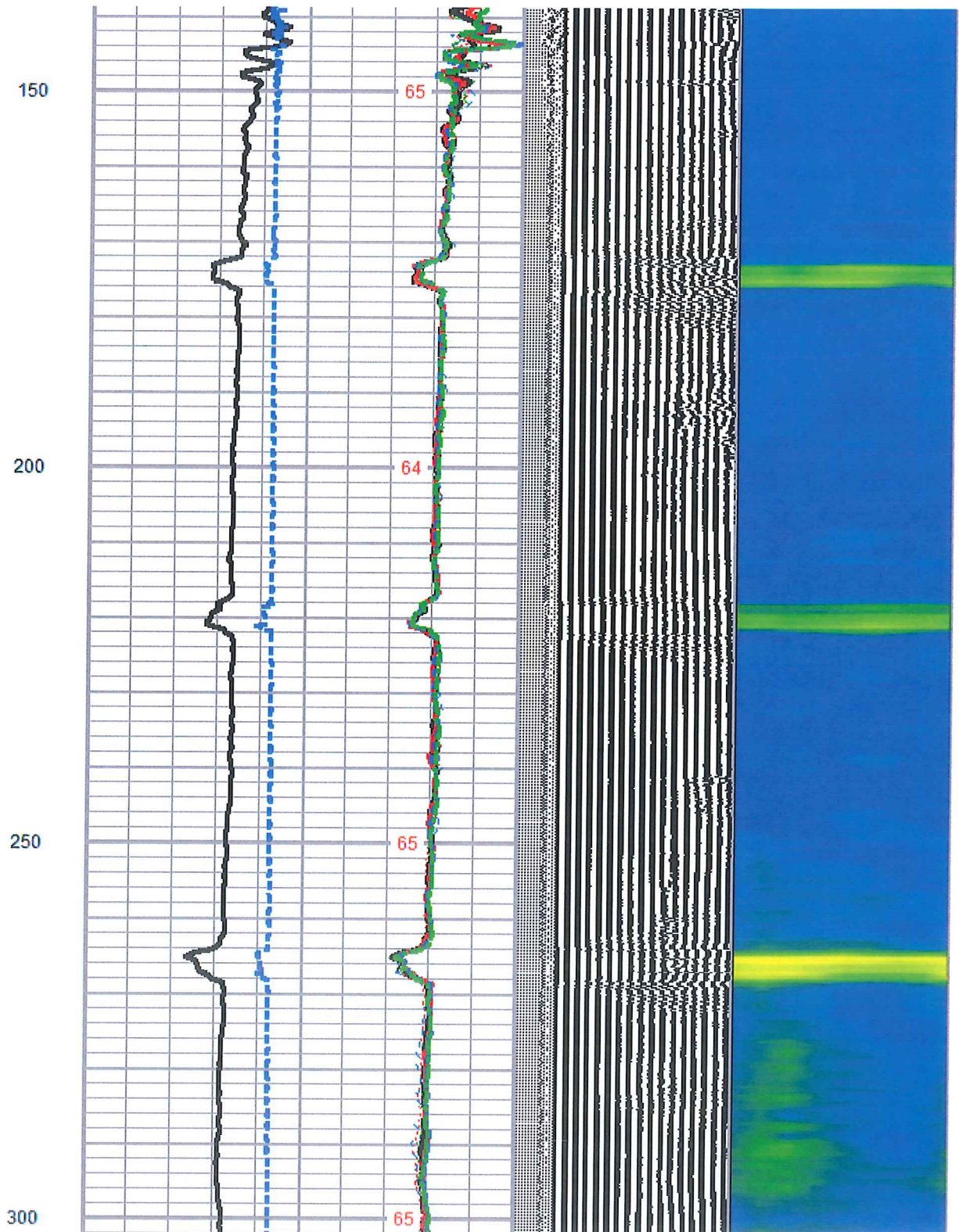
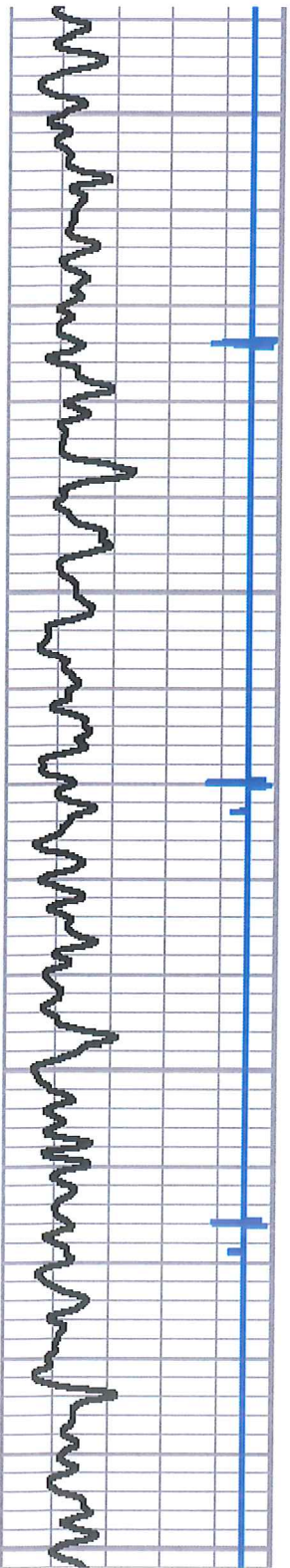
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200	400

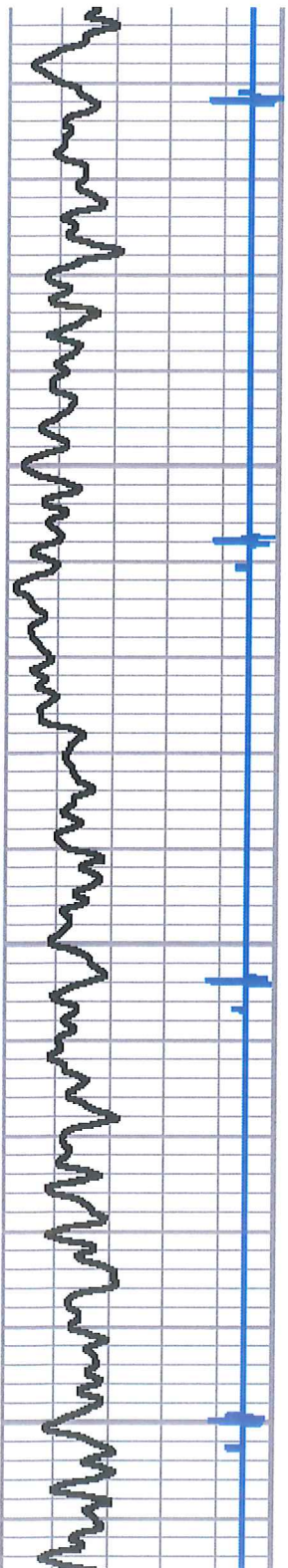
AMPx10 (mV)	10
0	10
350	250

AMPS	150
0	150
0	150
0	150
0	150
0	150
0	150
0	150

TEMP  
(degF)



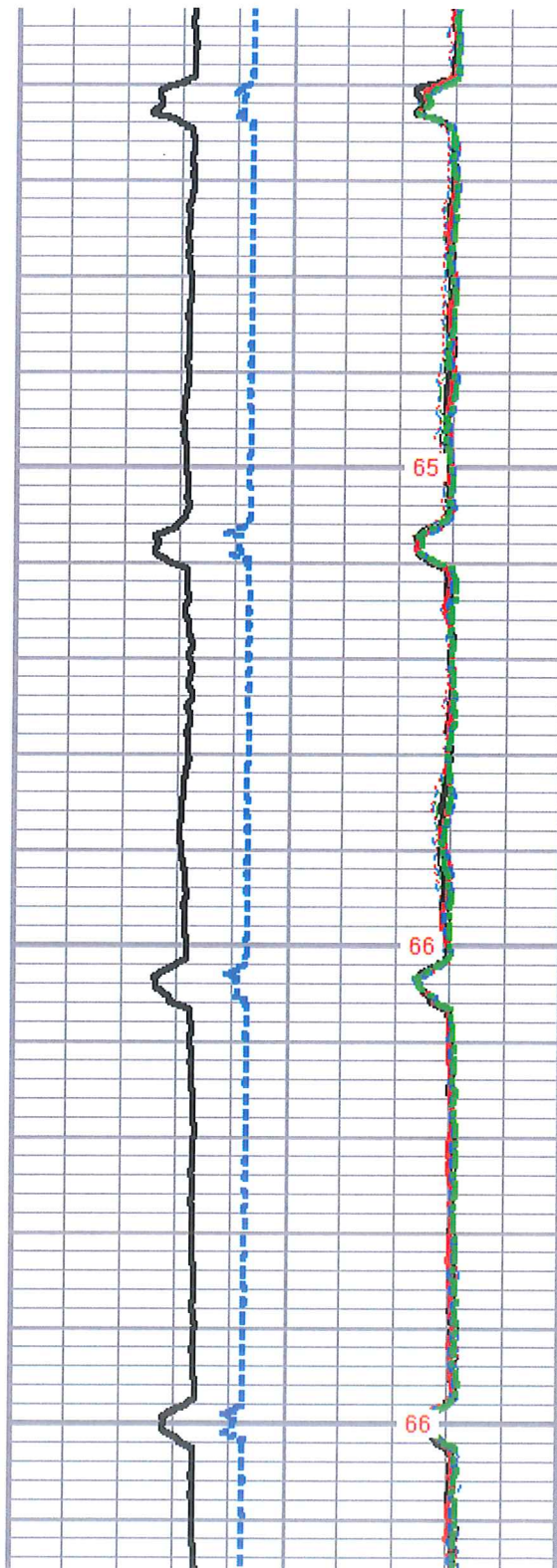




350

400

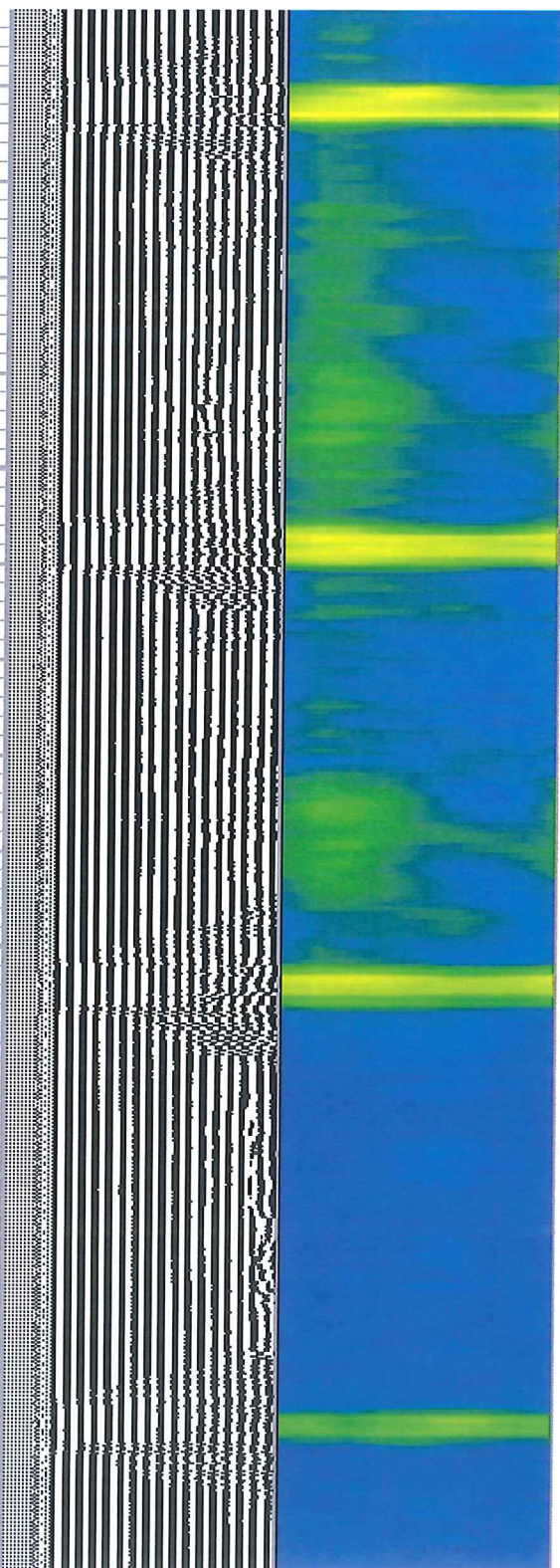
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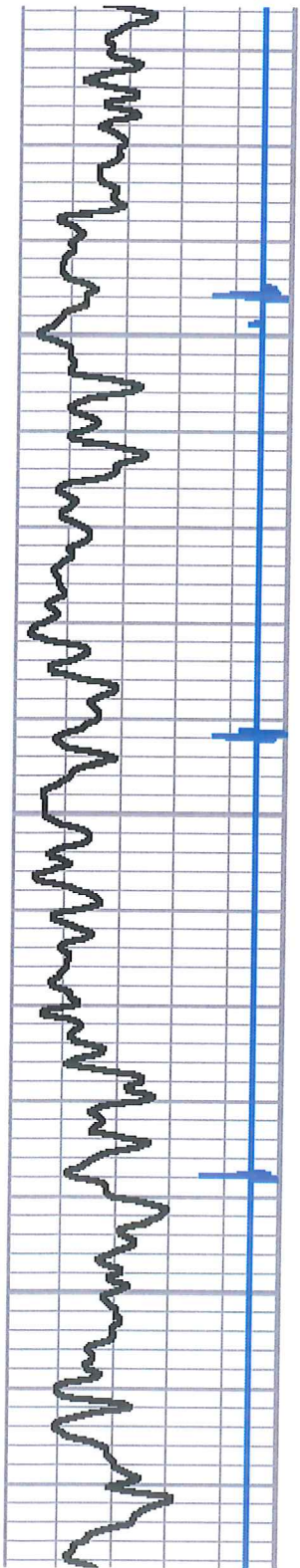


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66

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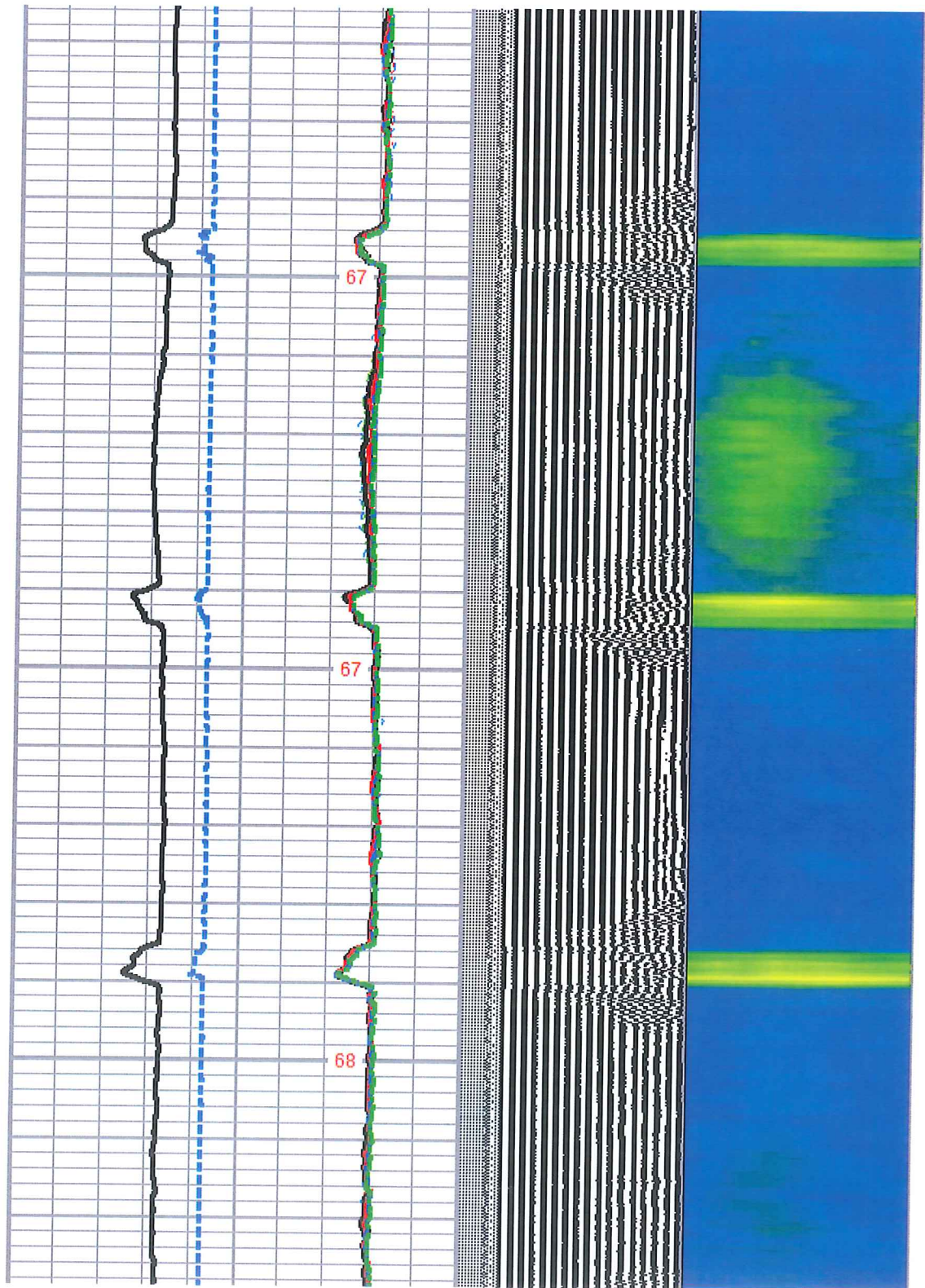


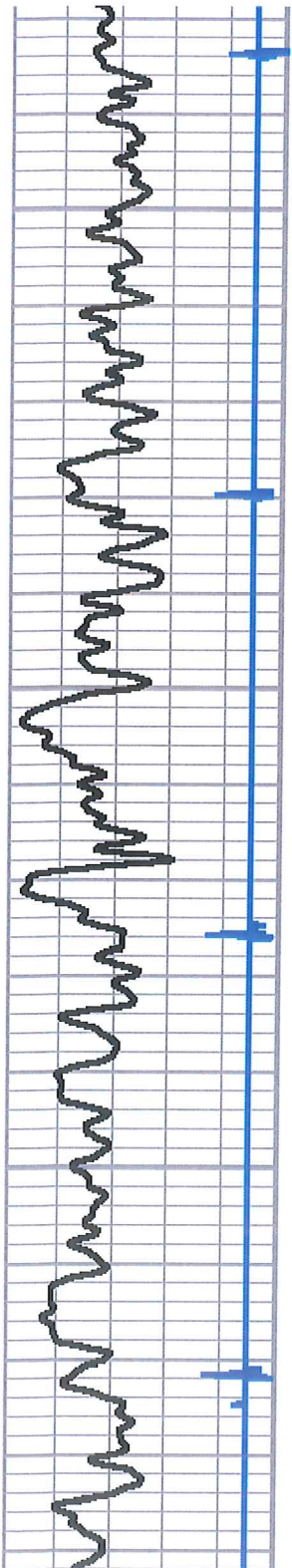


500

550

600

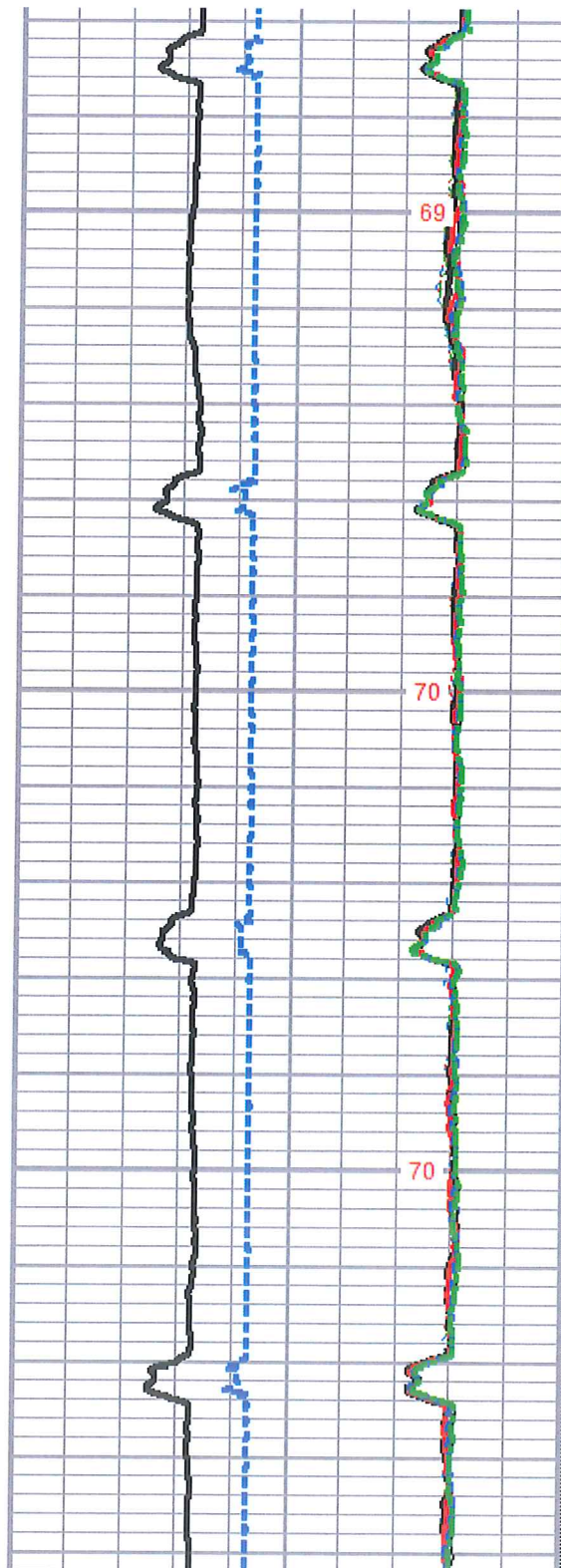




650

700

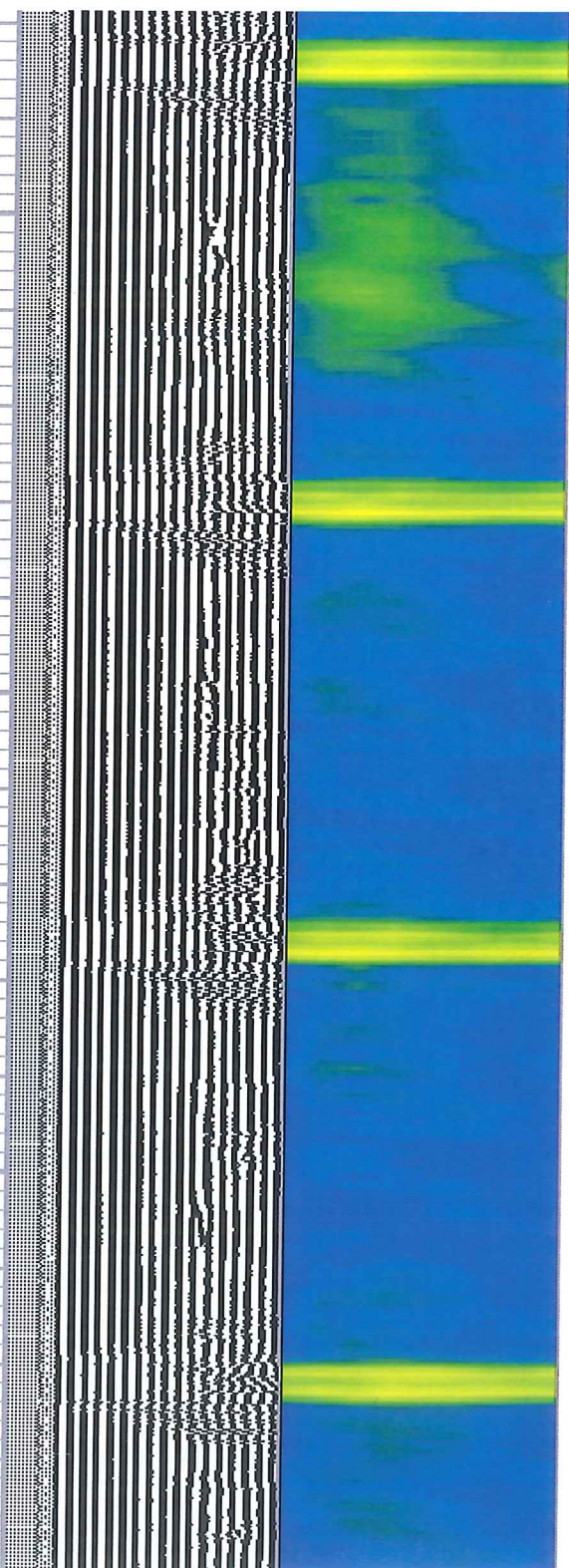
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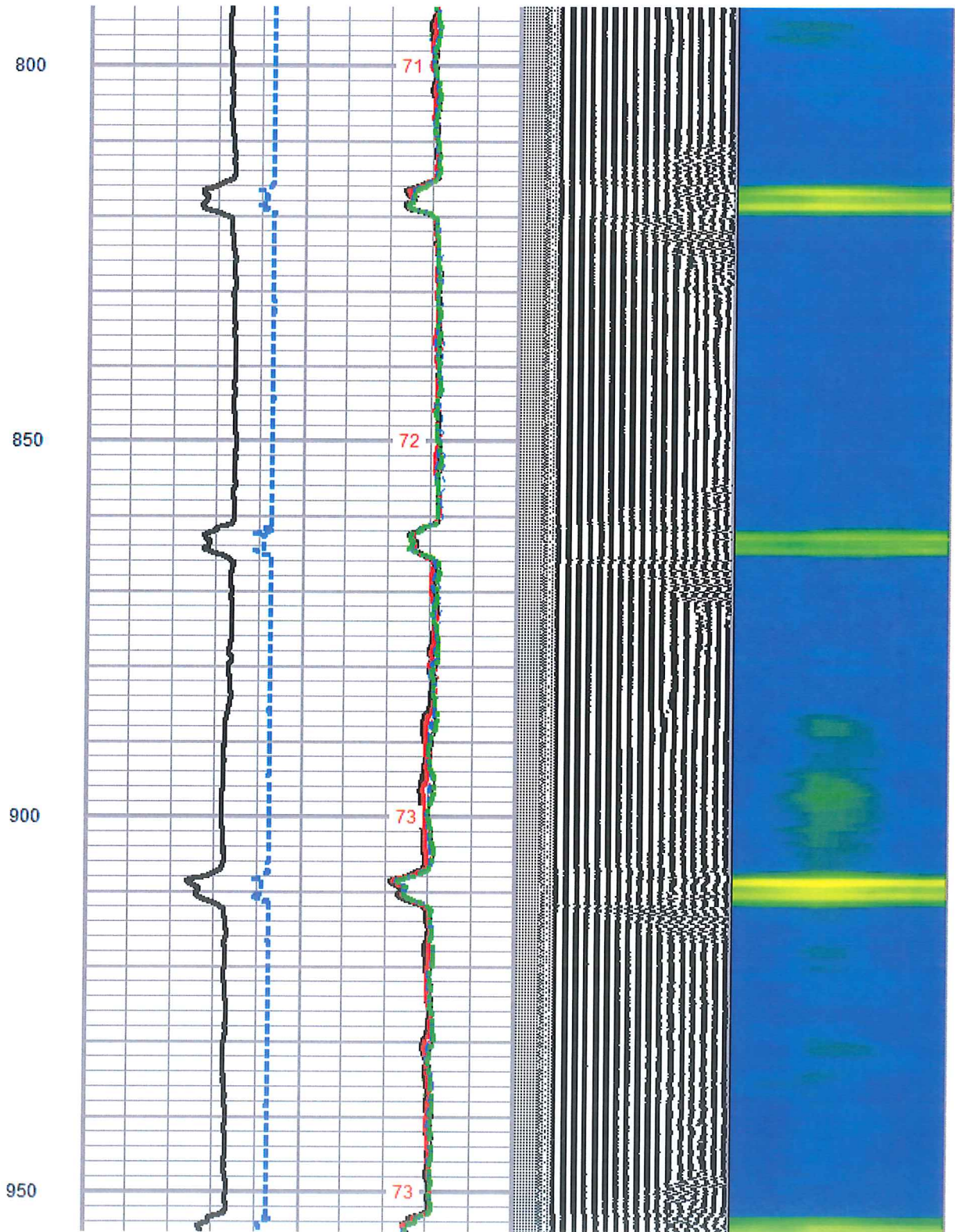
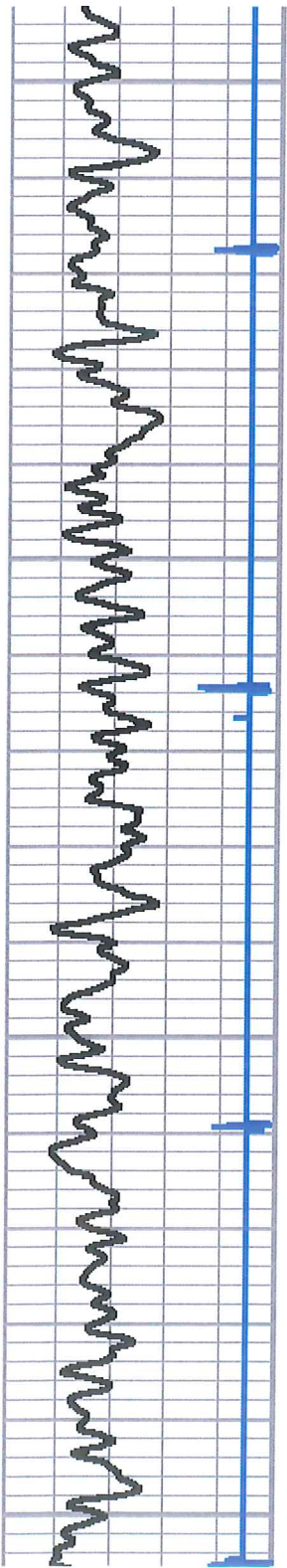
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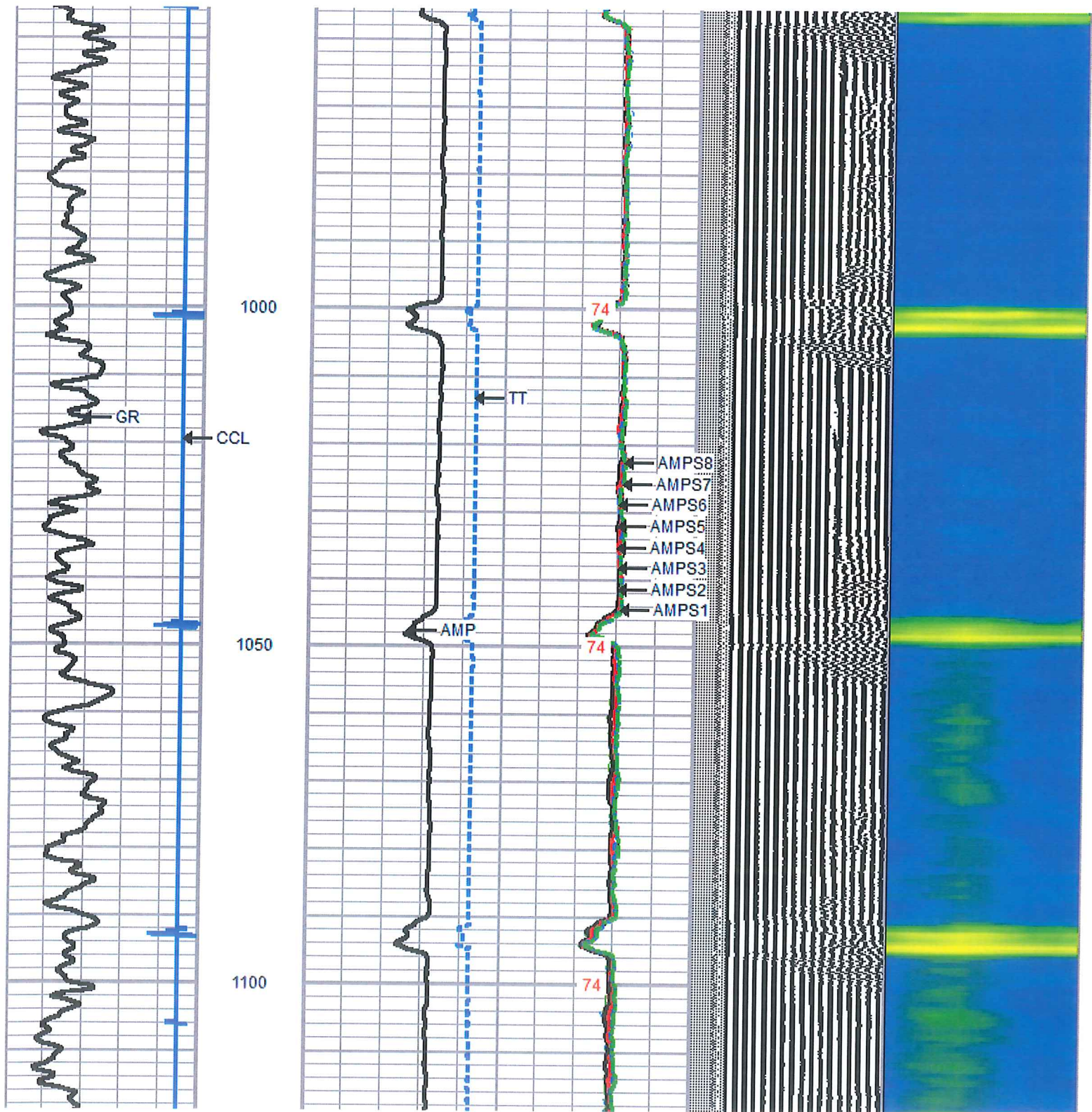
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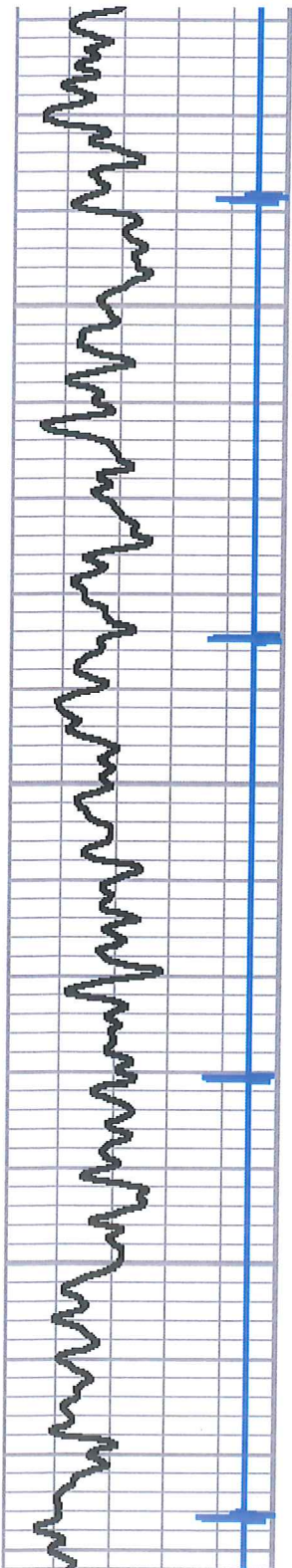
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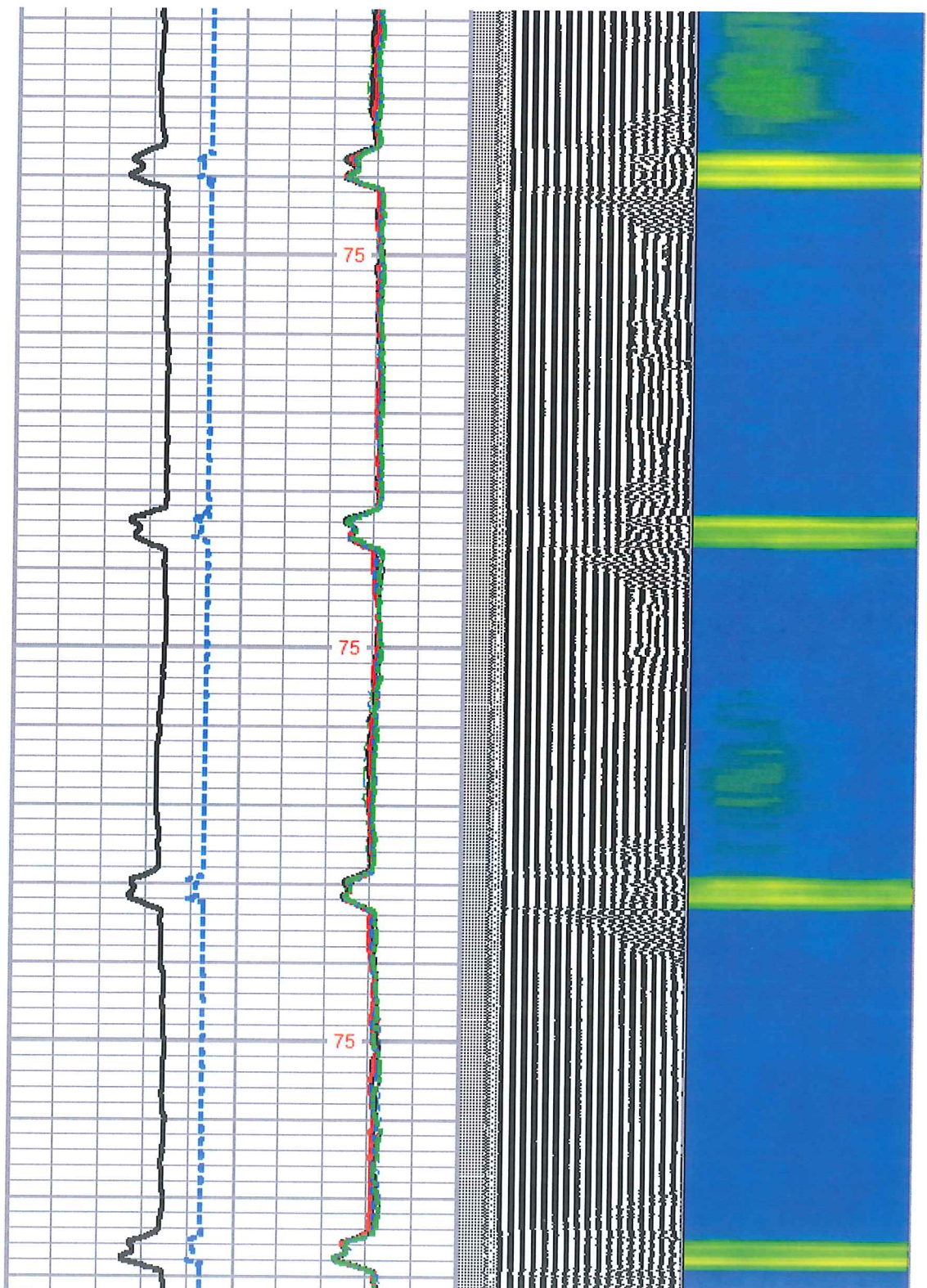


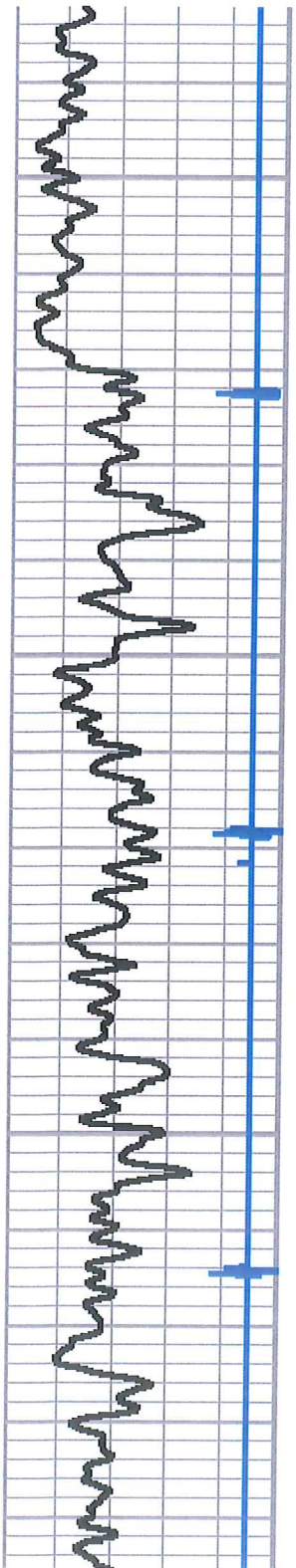


1150

1200

1250

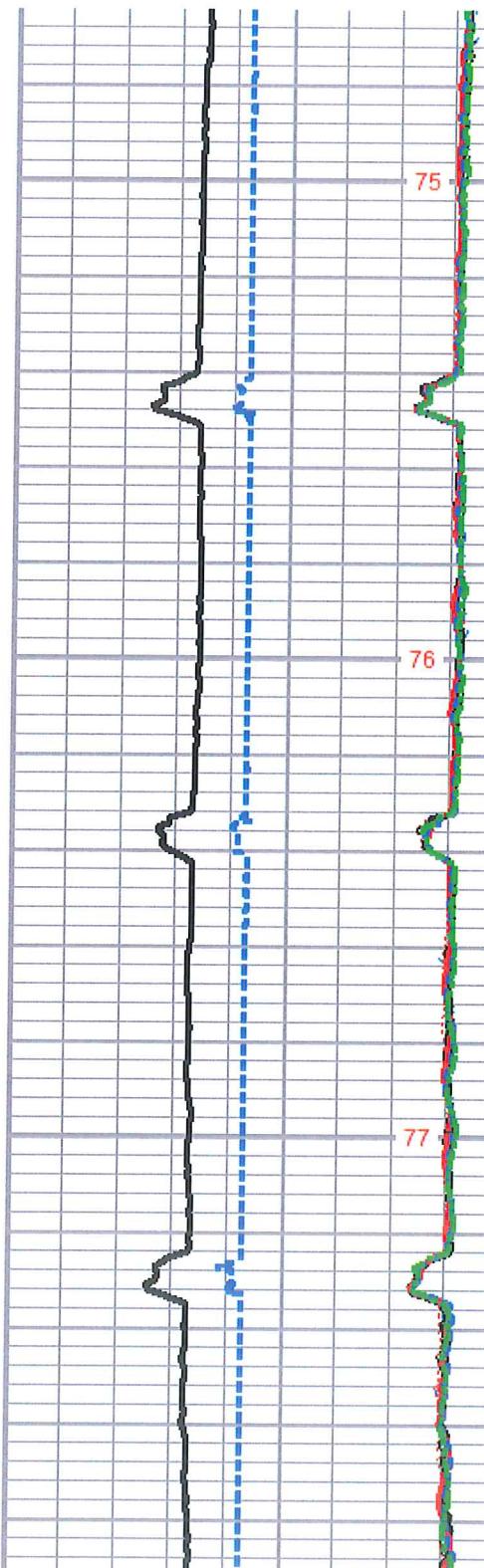




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1350

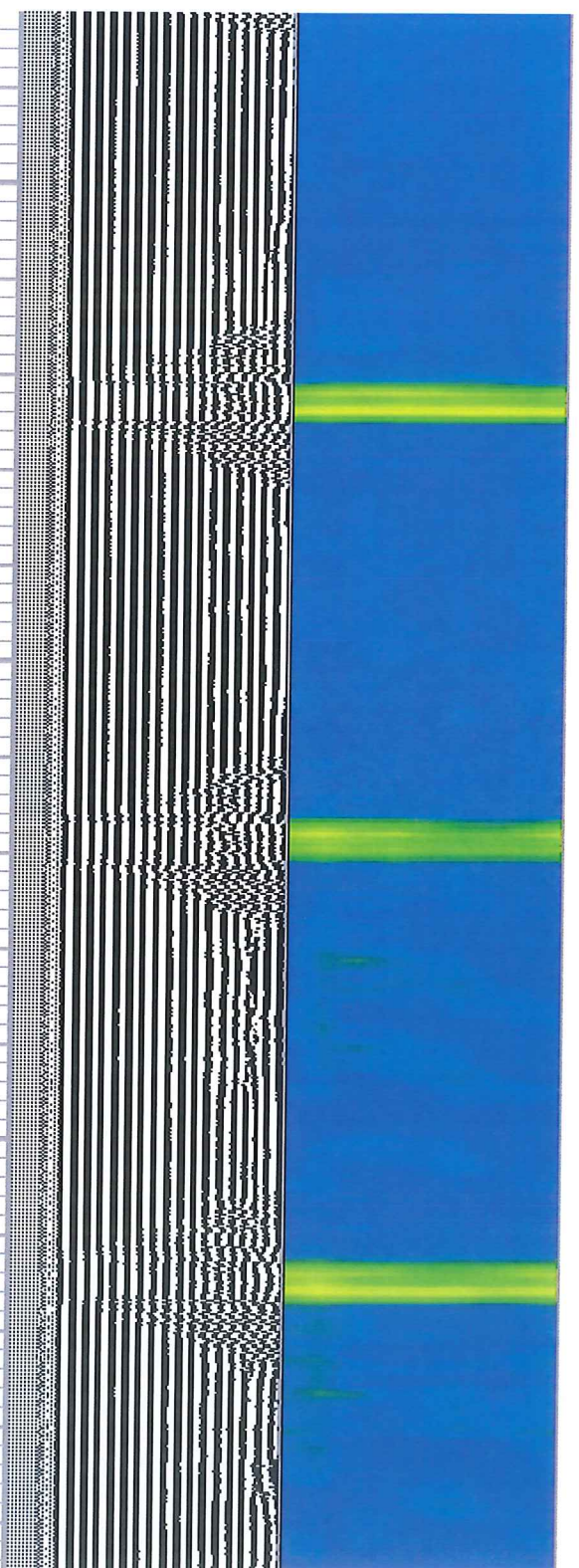
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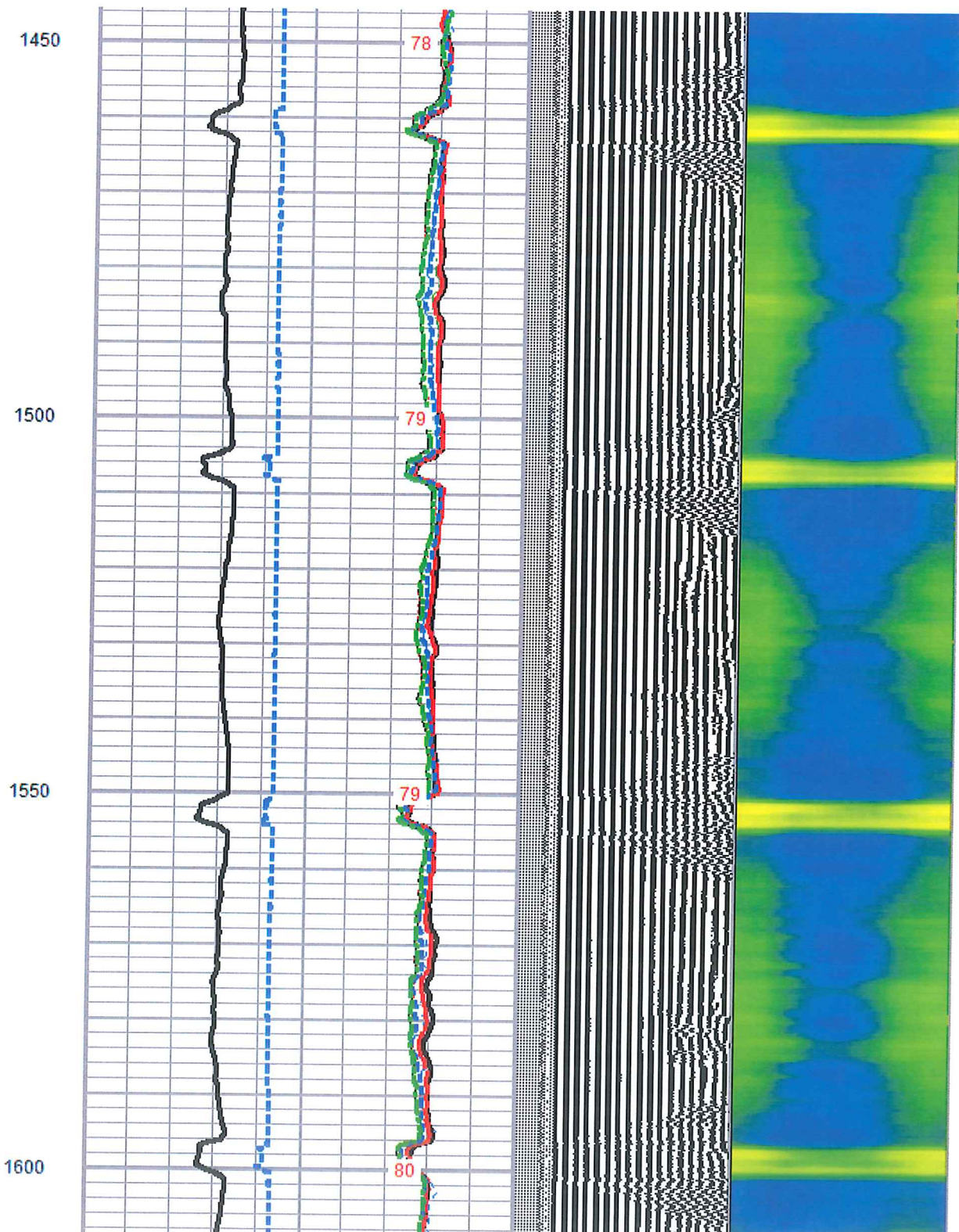
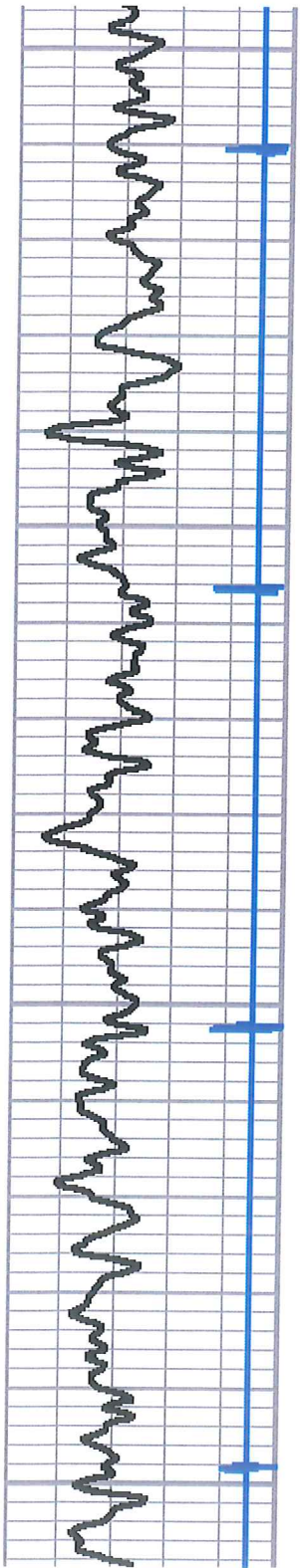


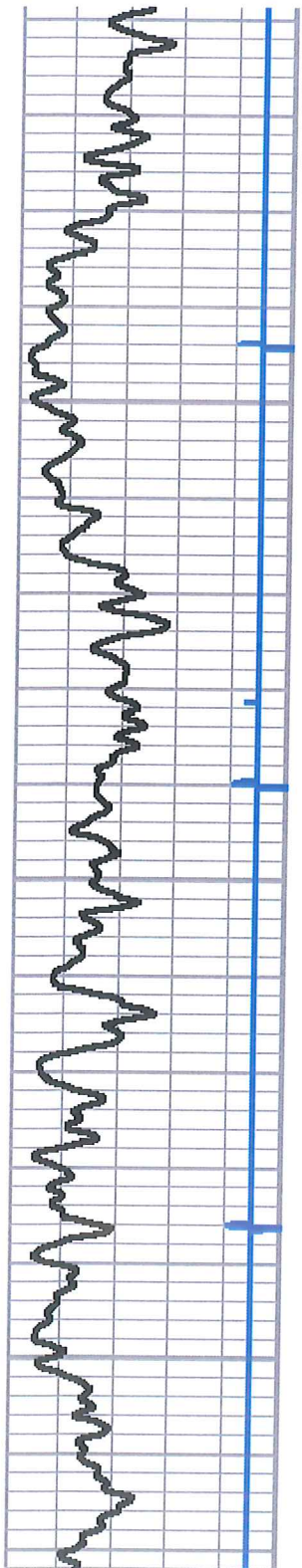
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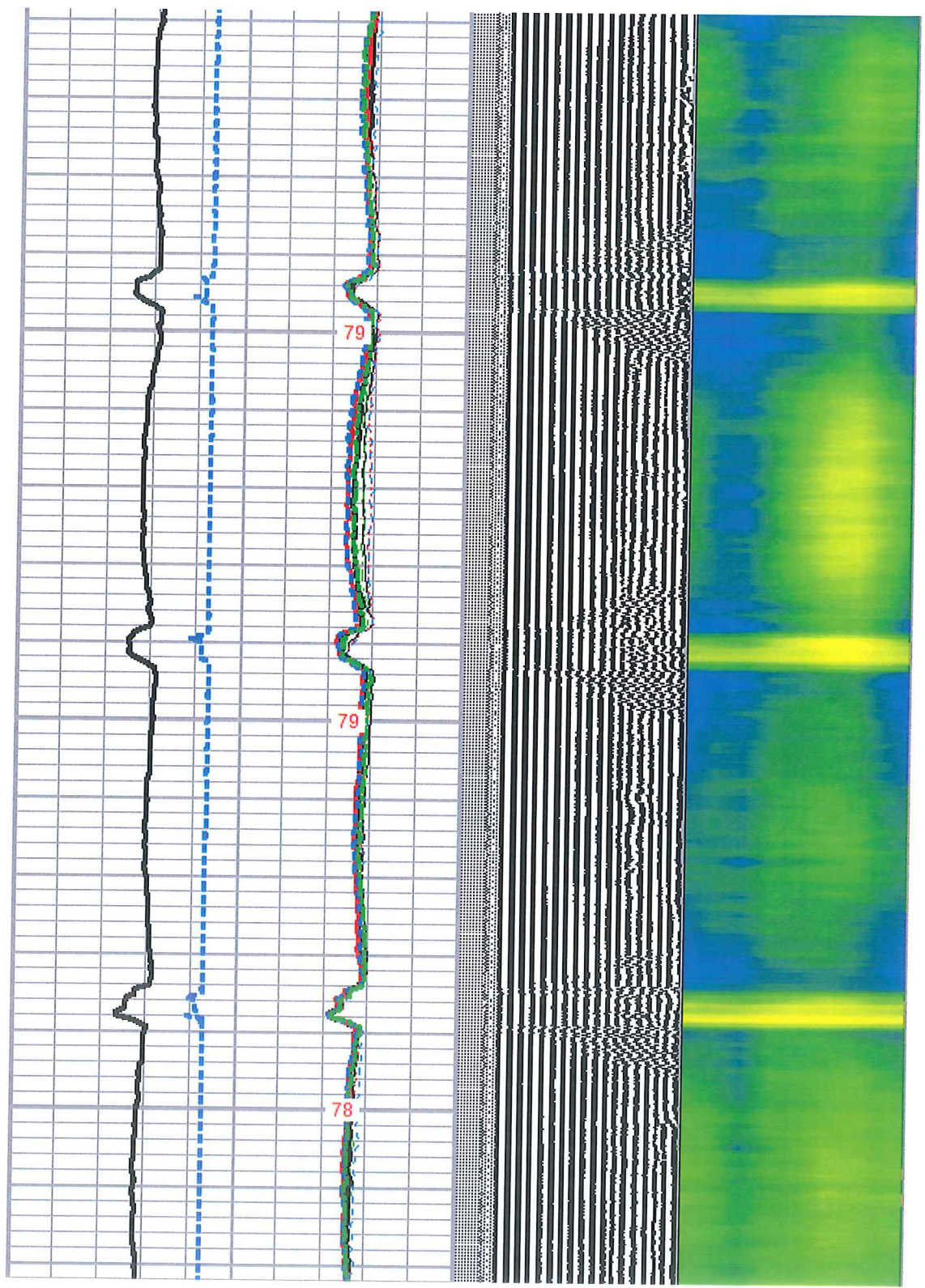




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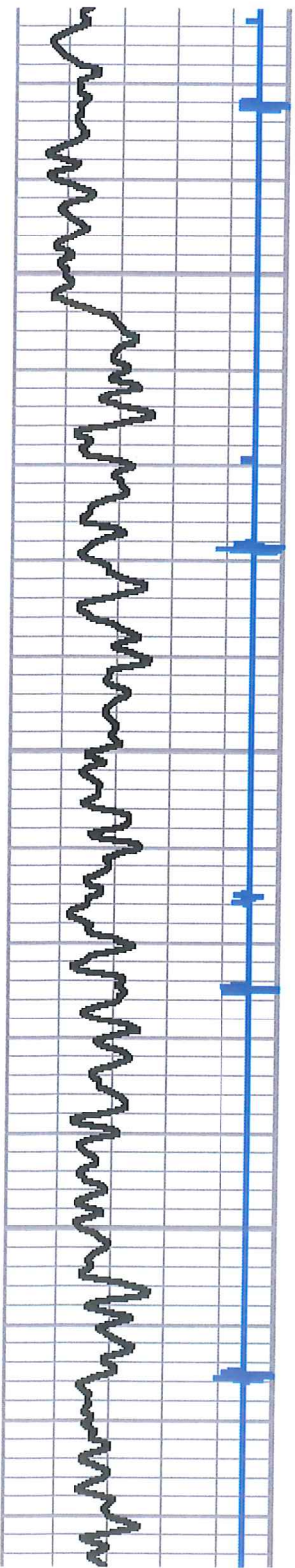
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79

79

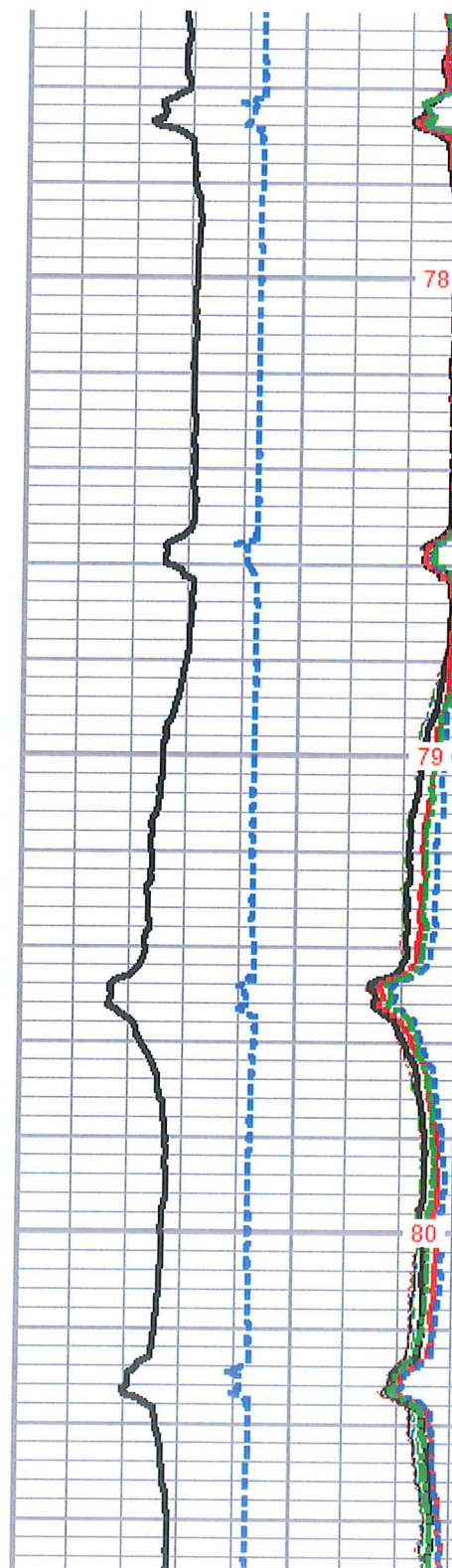
78



1800

1850

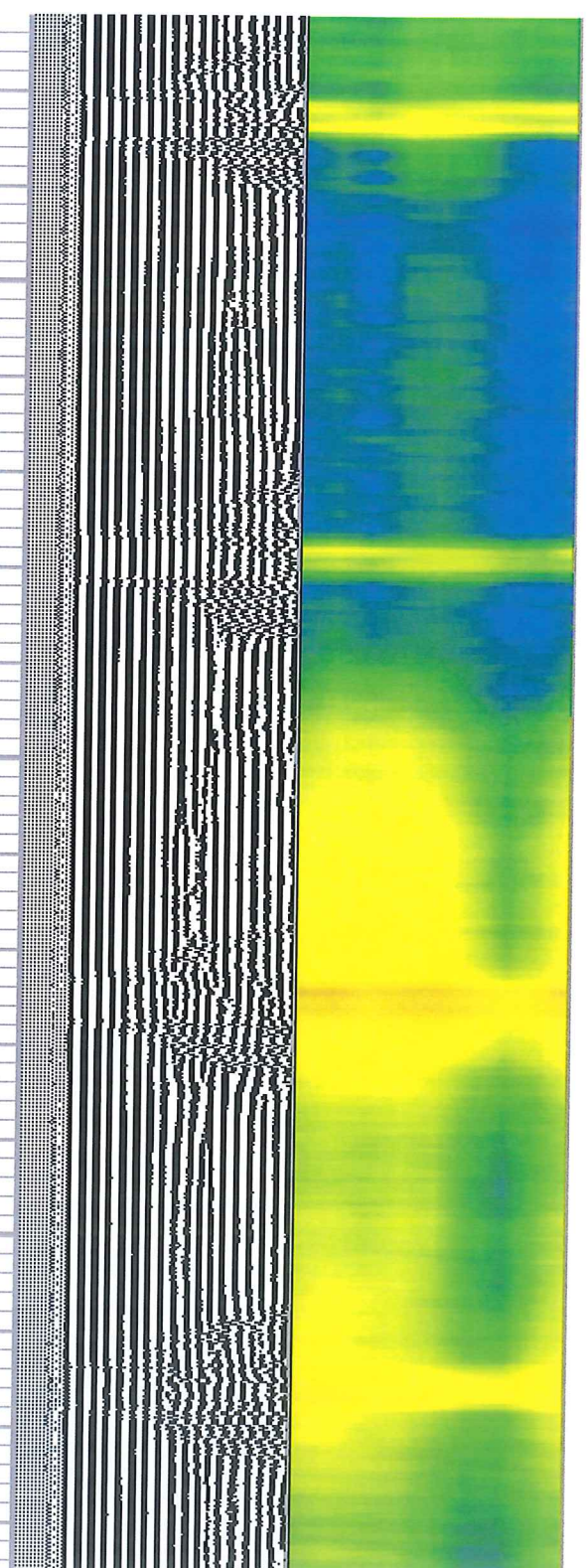
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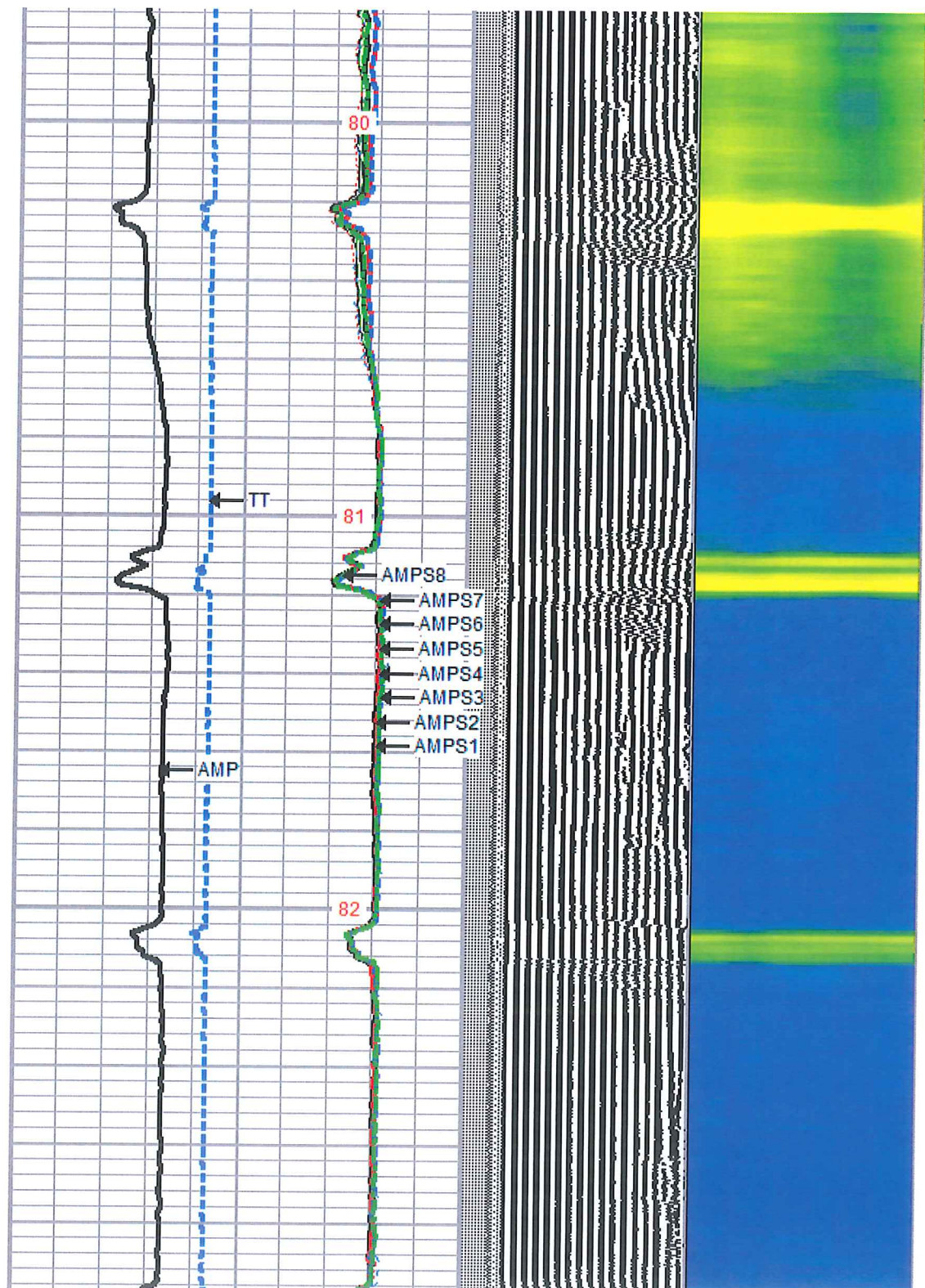
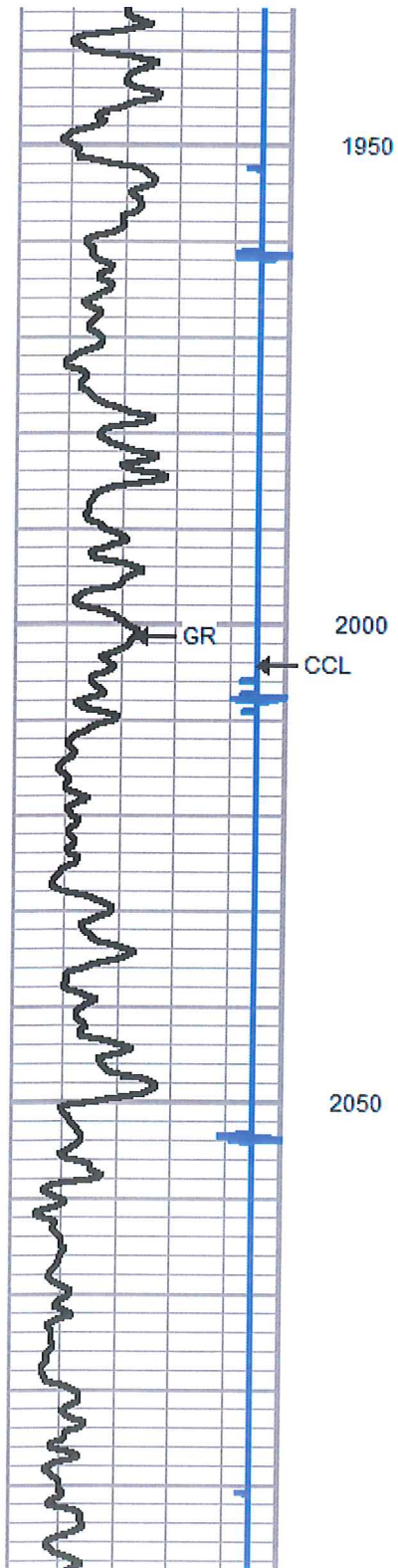


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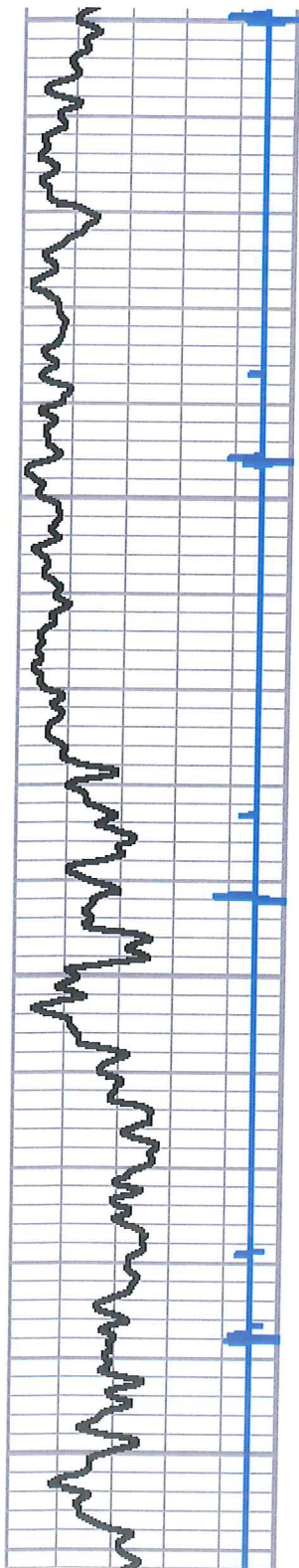
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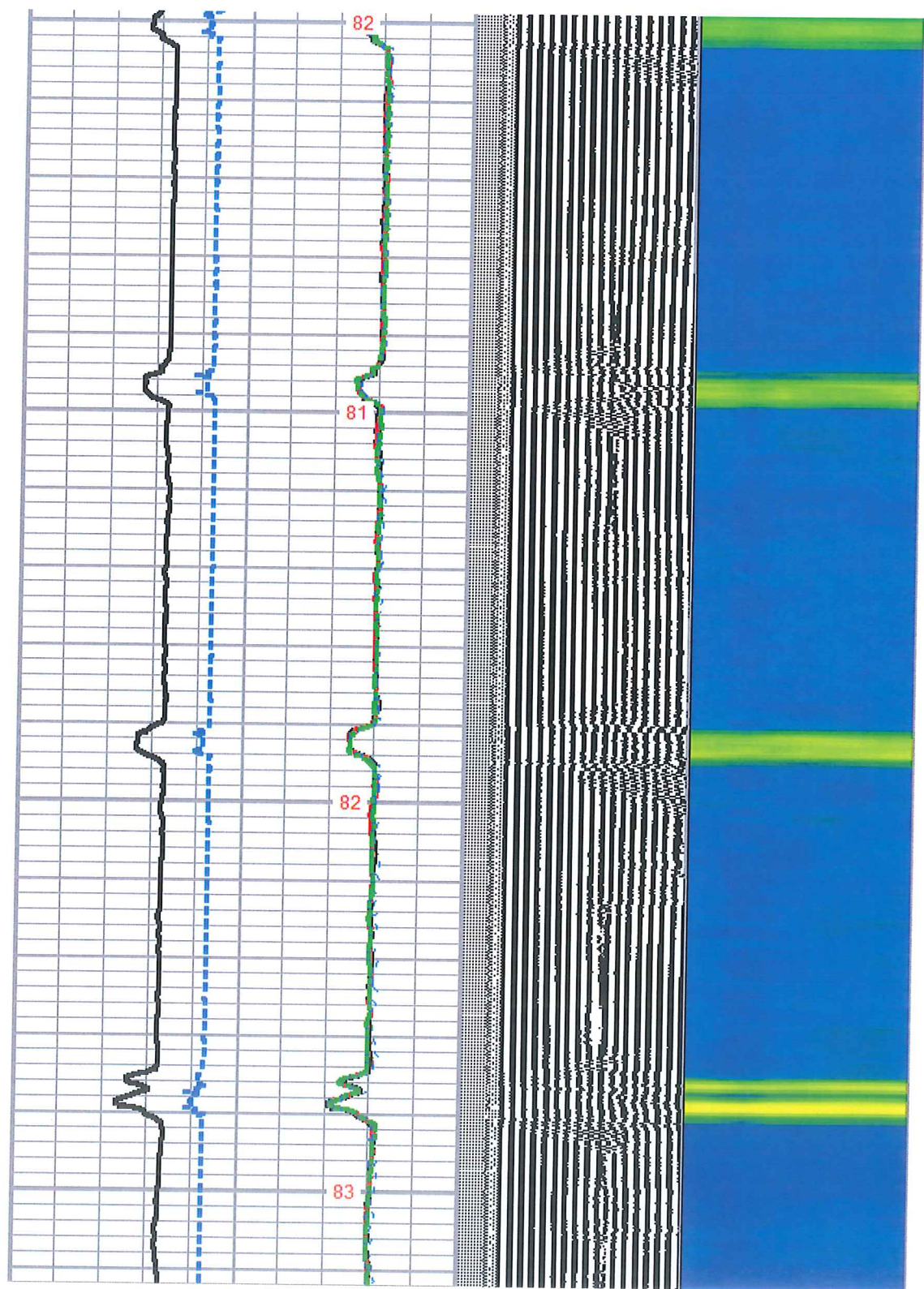


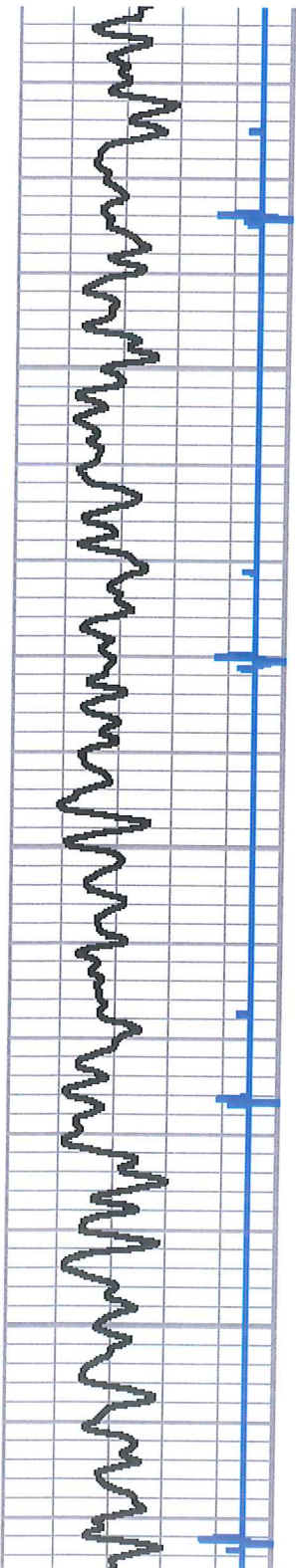






2100  
2150  
2200  
2250

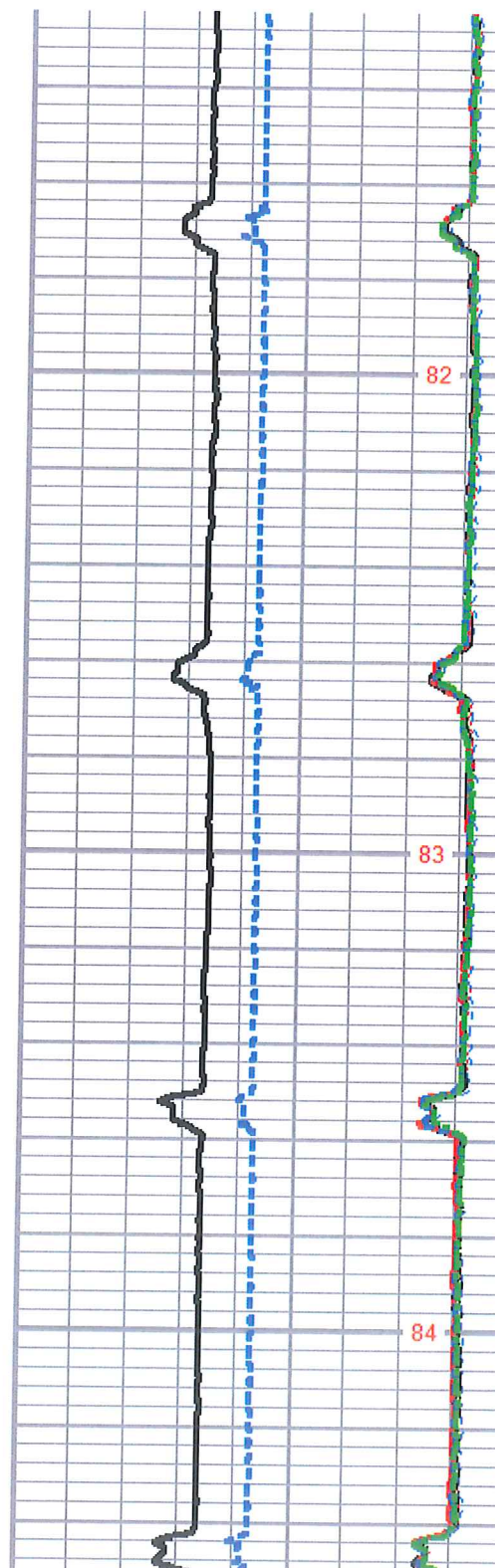




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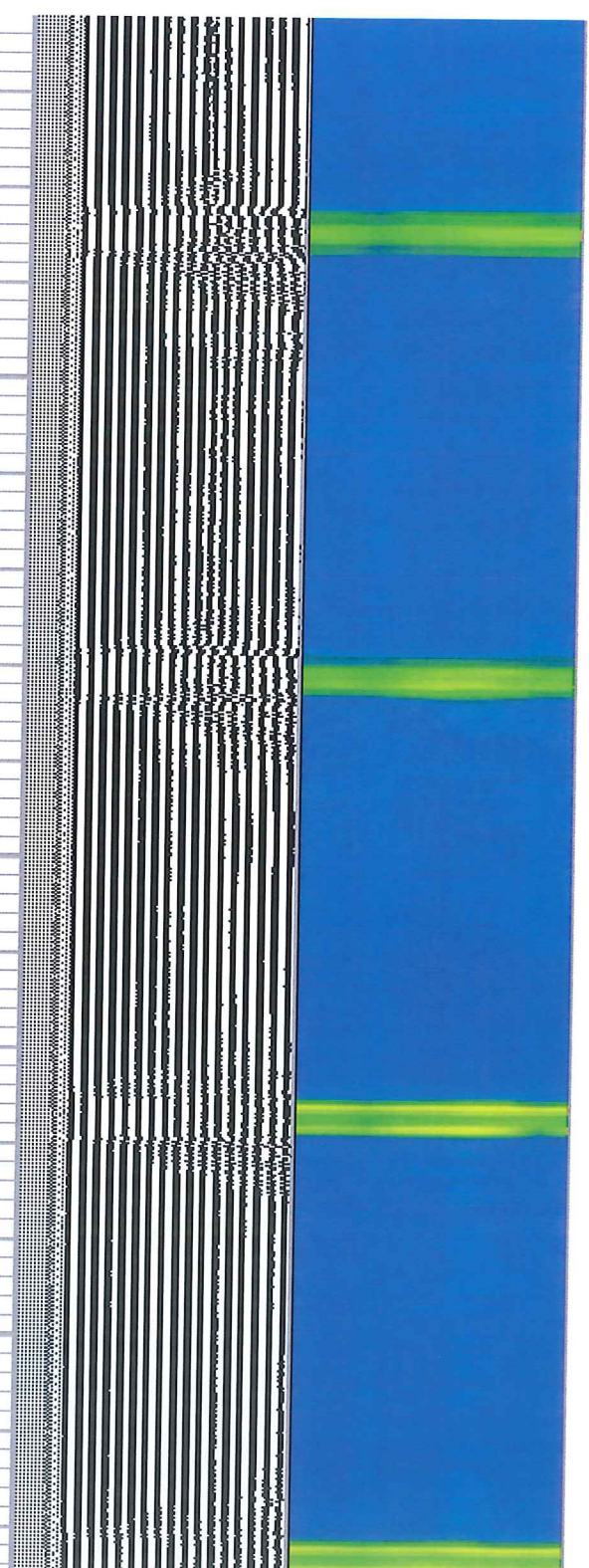
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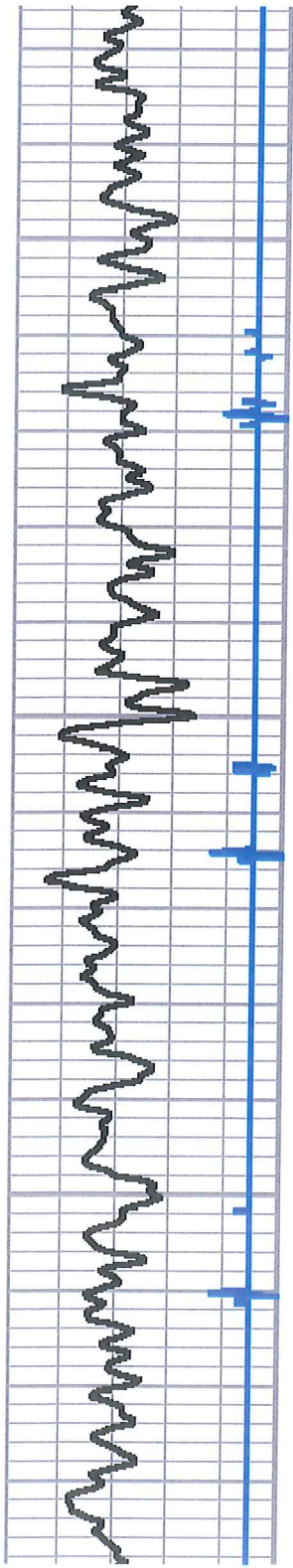


82

83

84

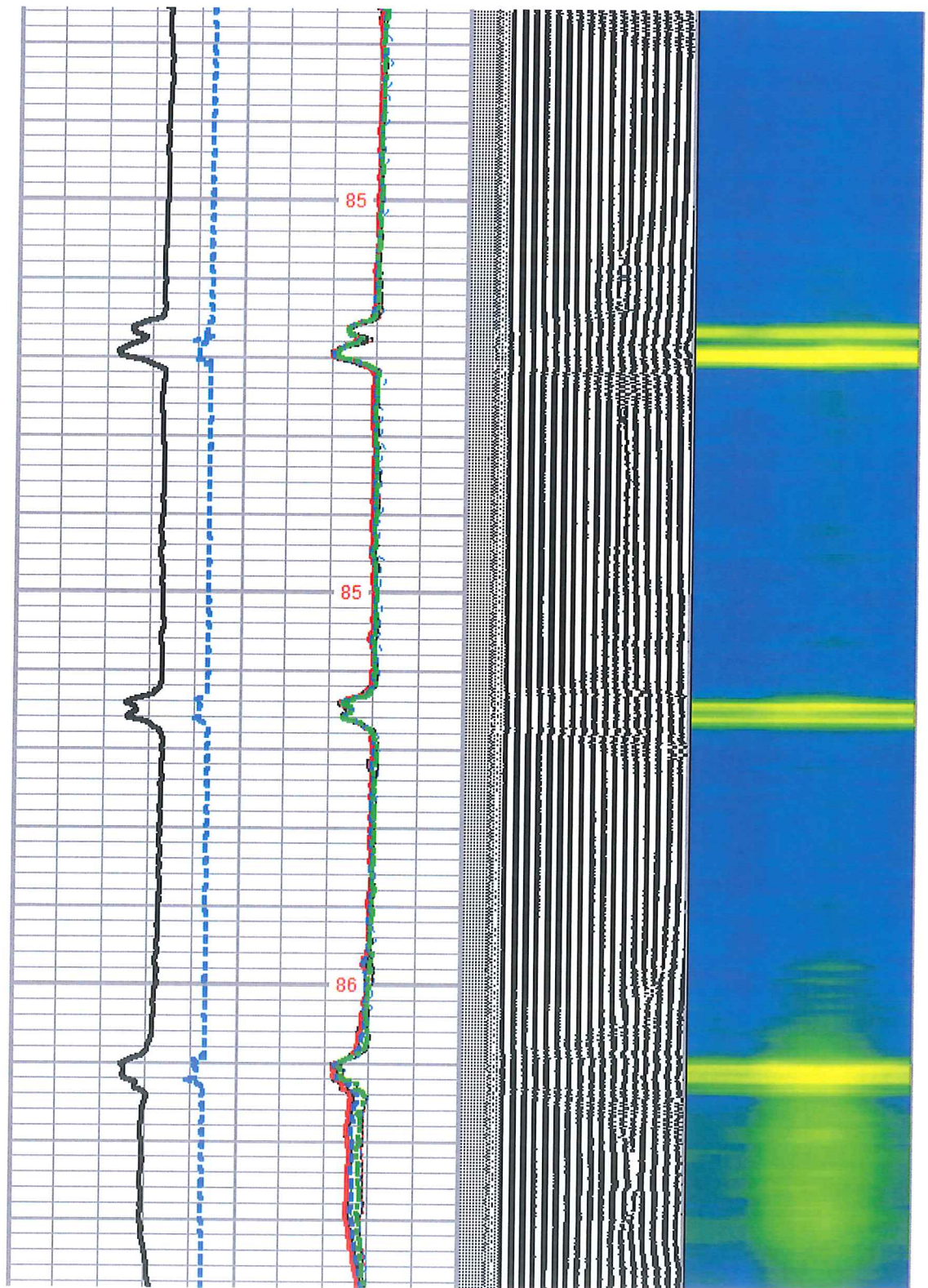


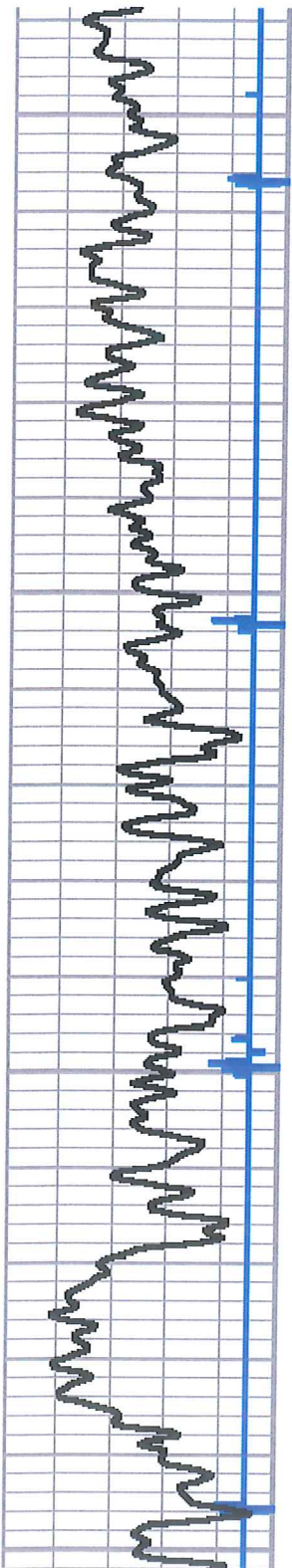


2450

2500

2550



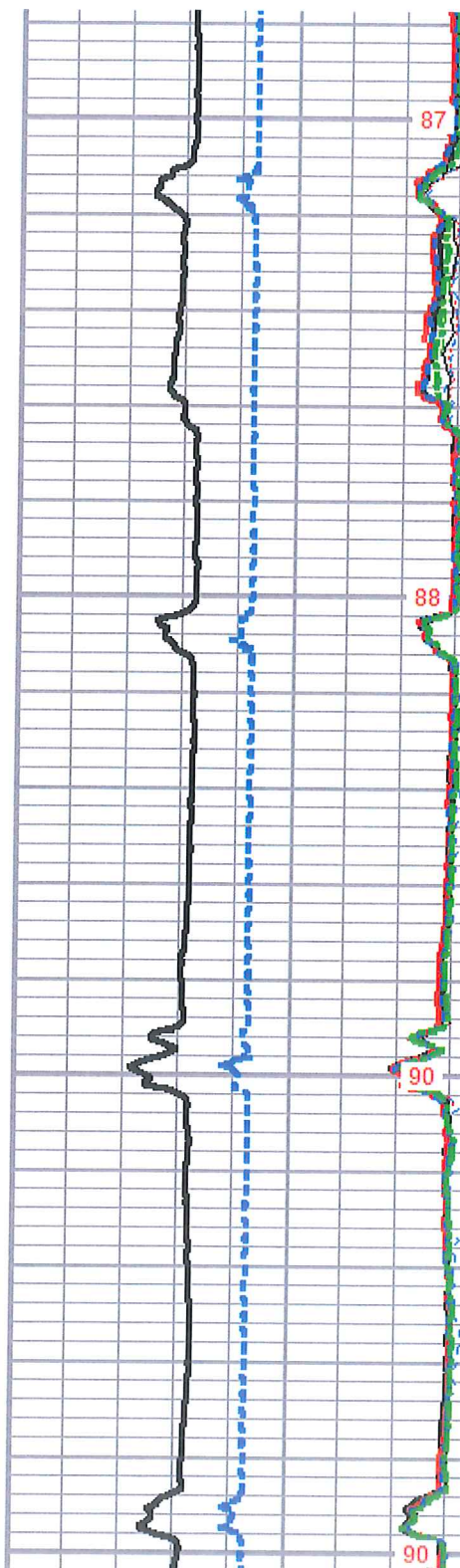


2600

2650

2700

2750

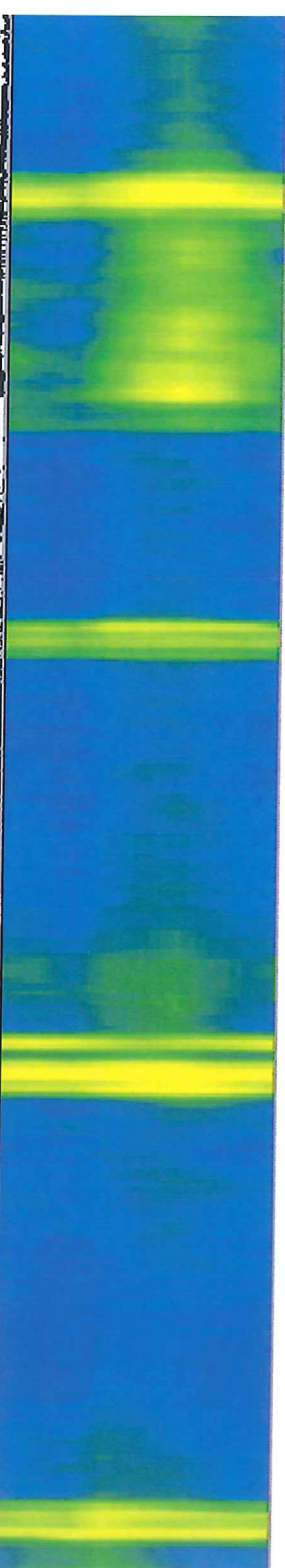
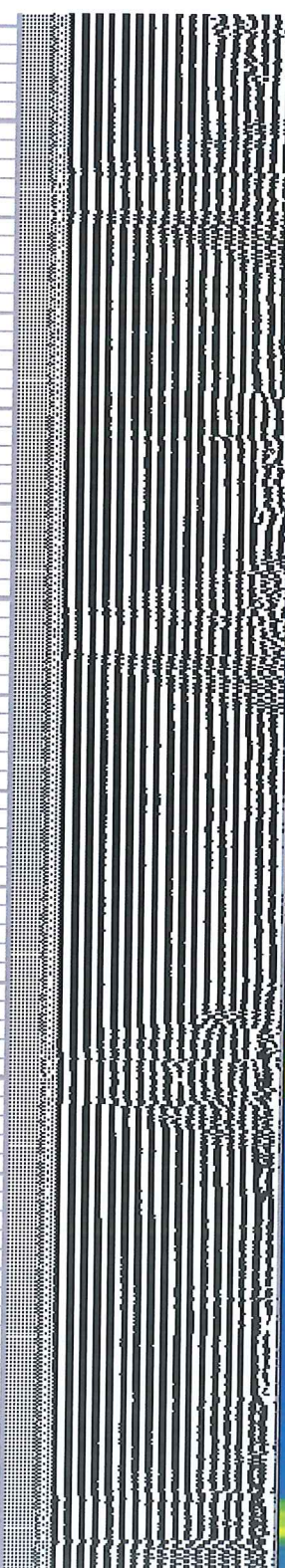


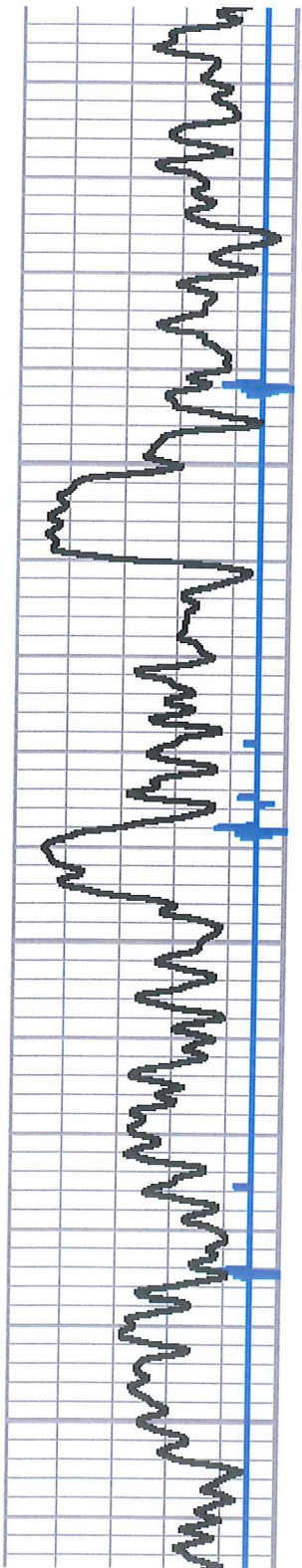
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88

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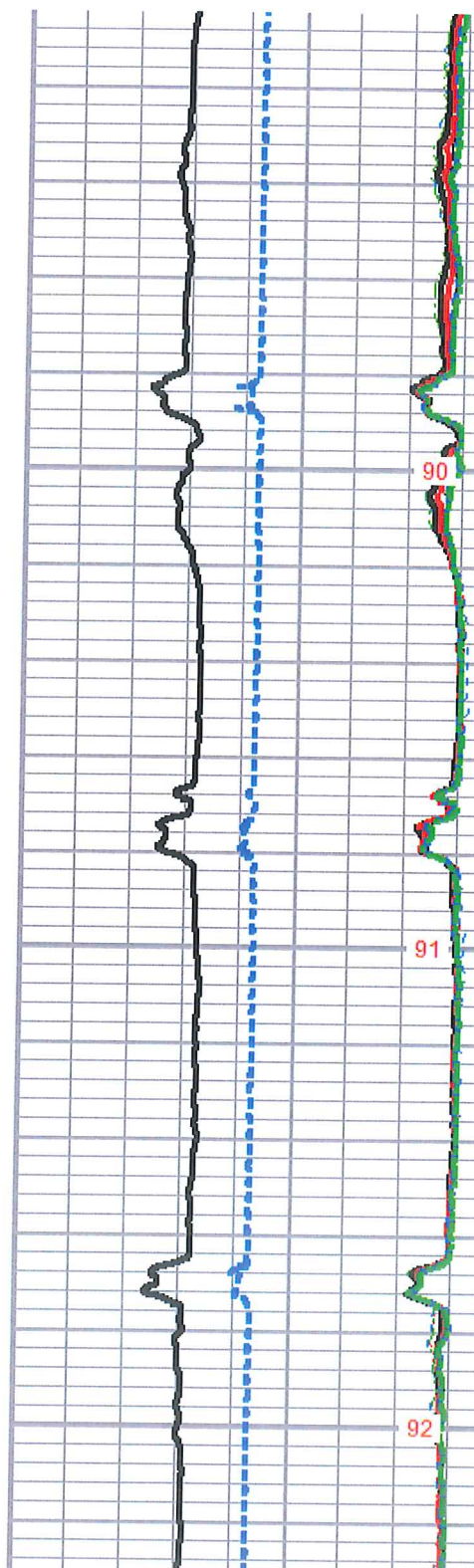




2800

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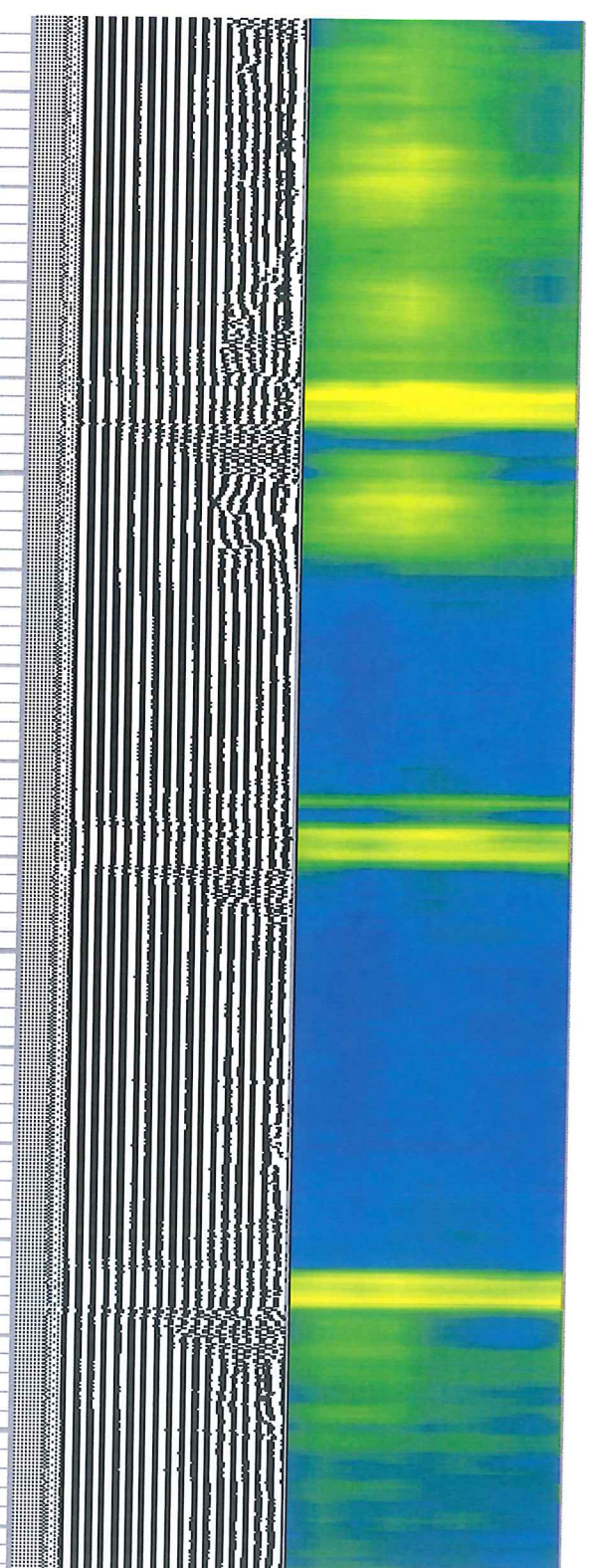
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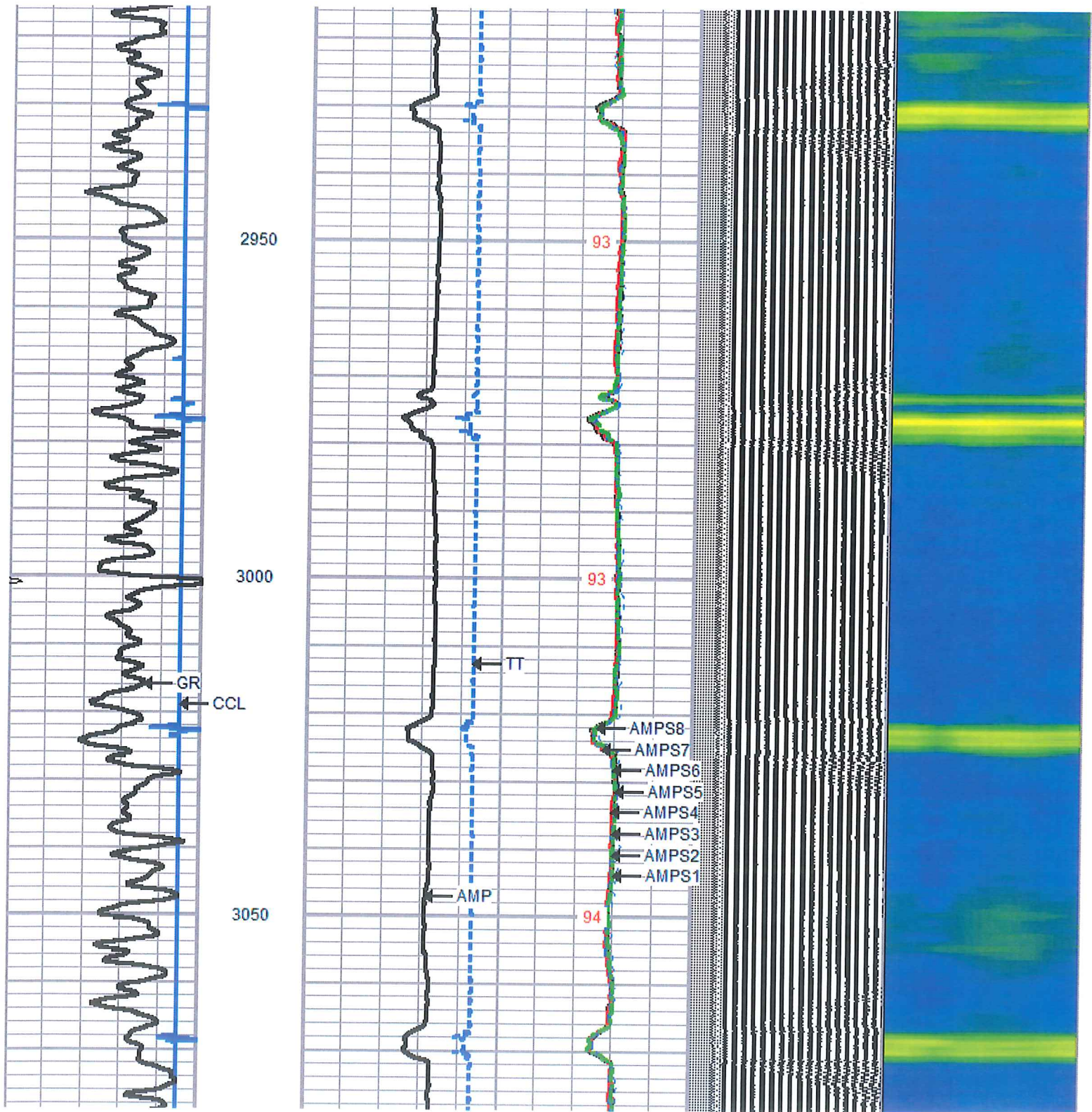


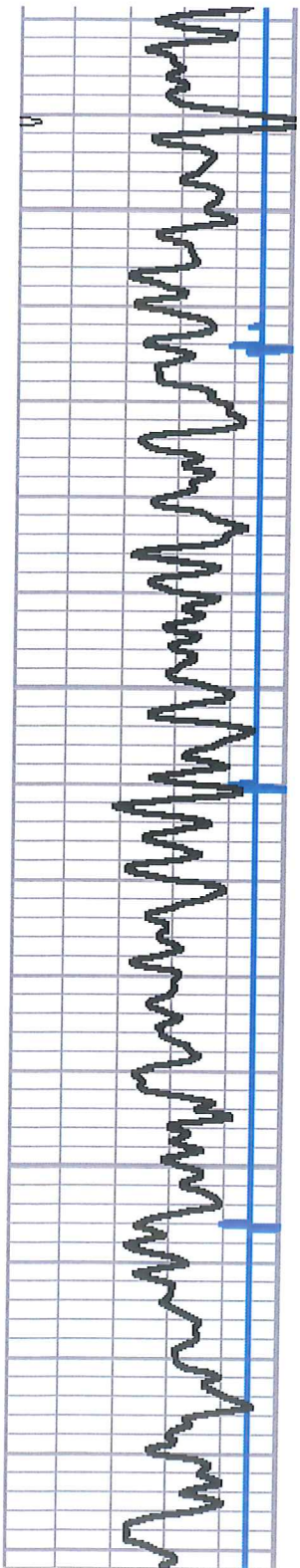
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92



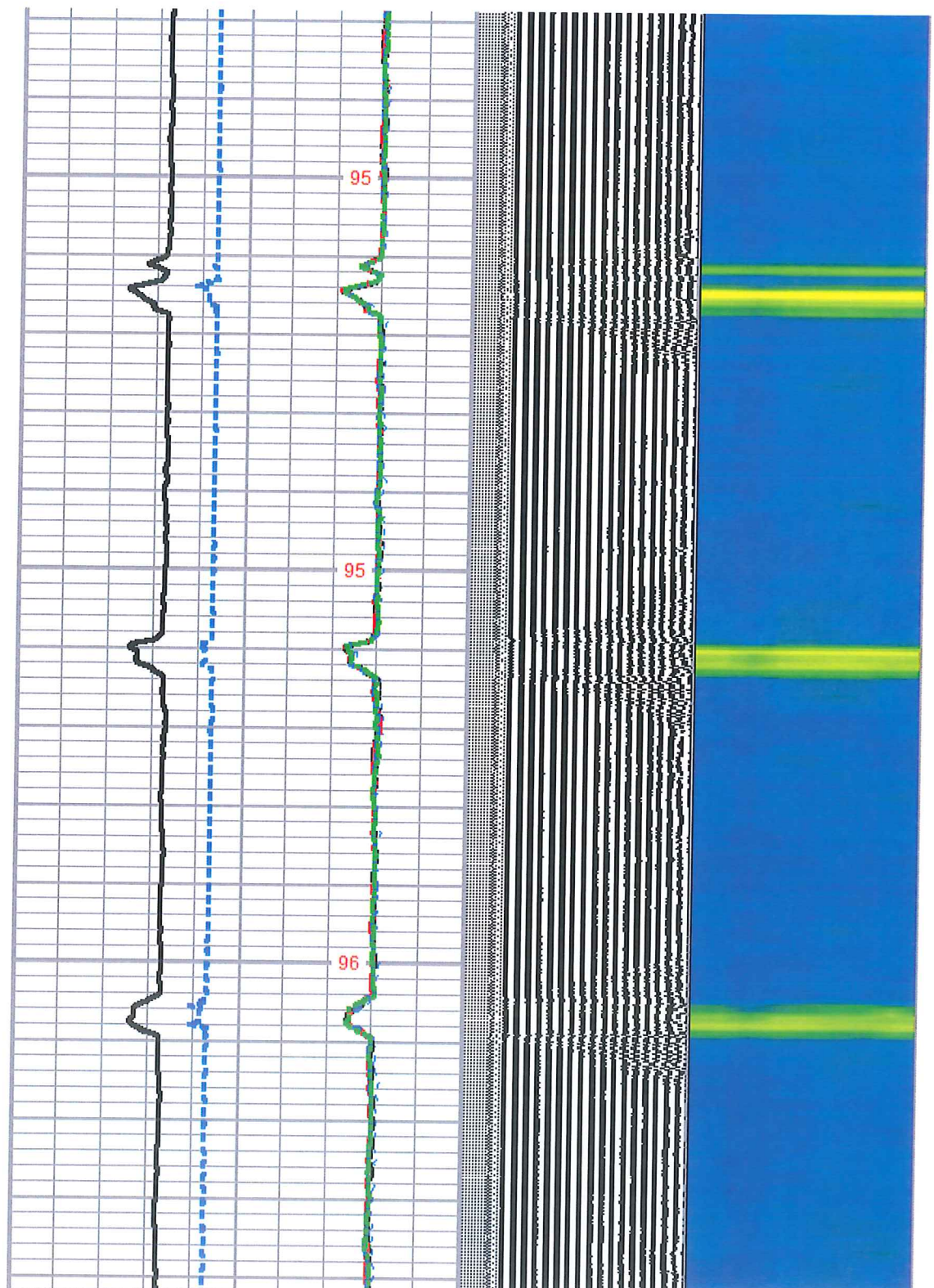


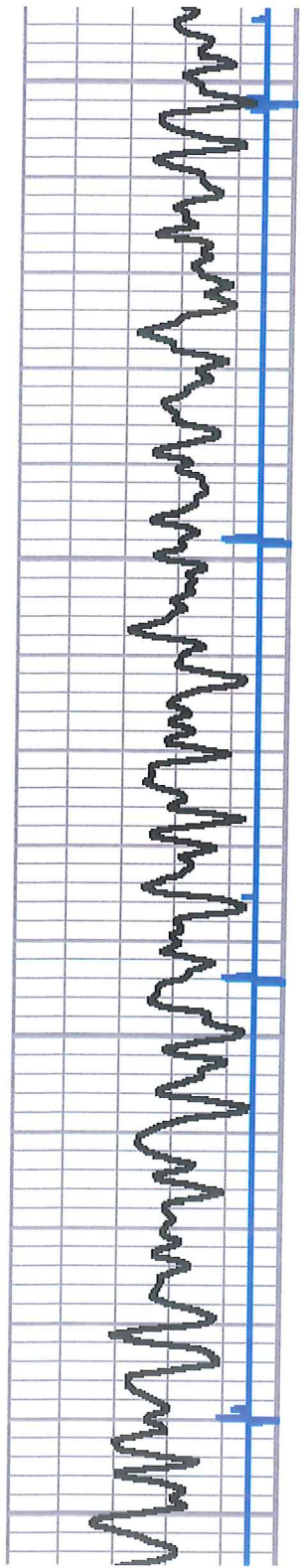


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3200



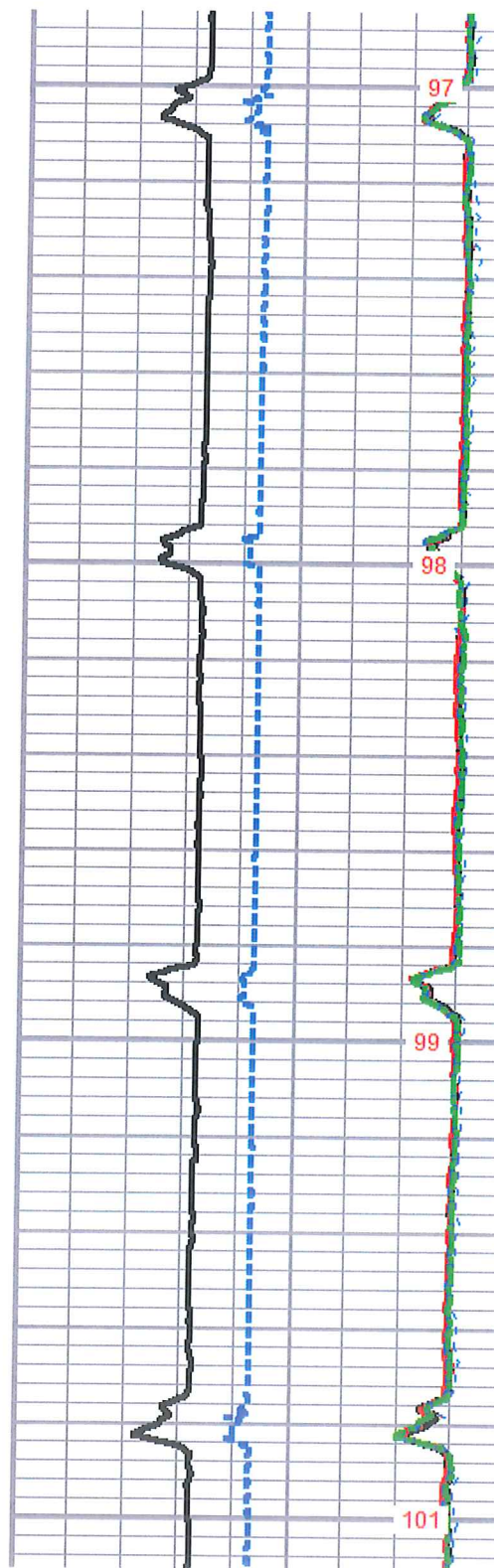


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3350

3400

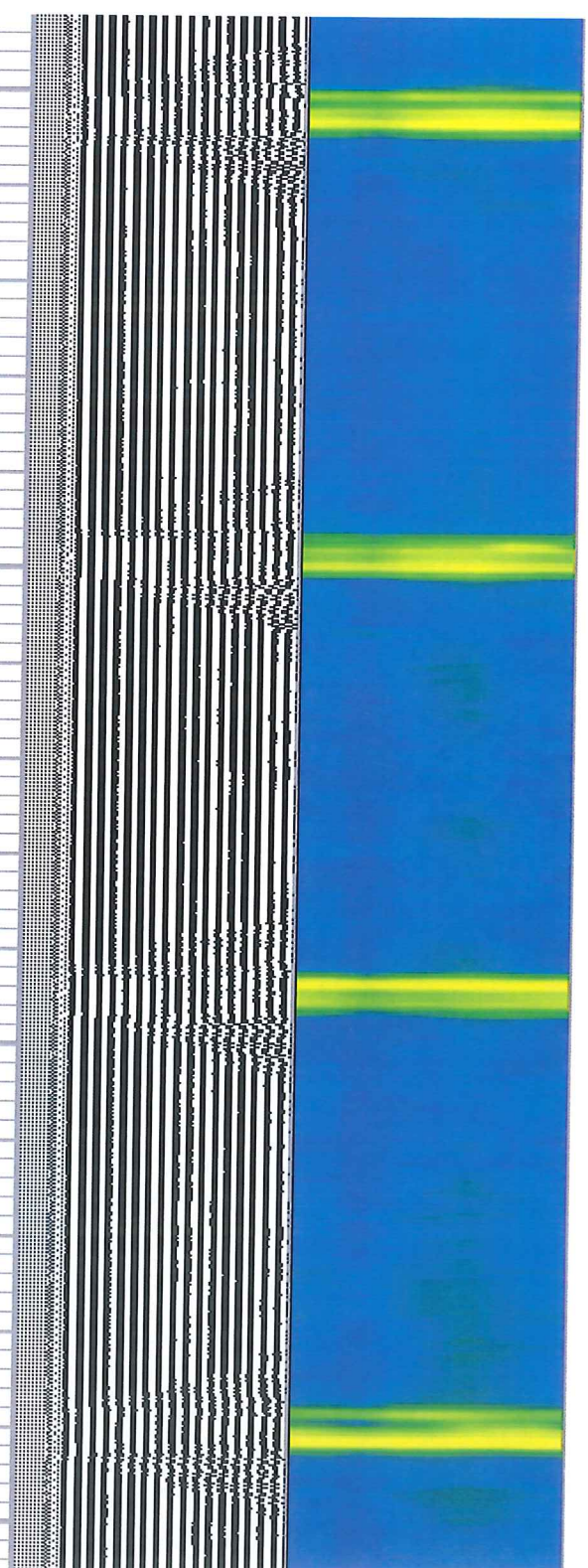


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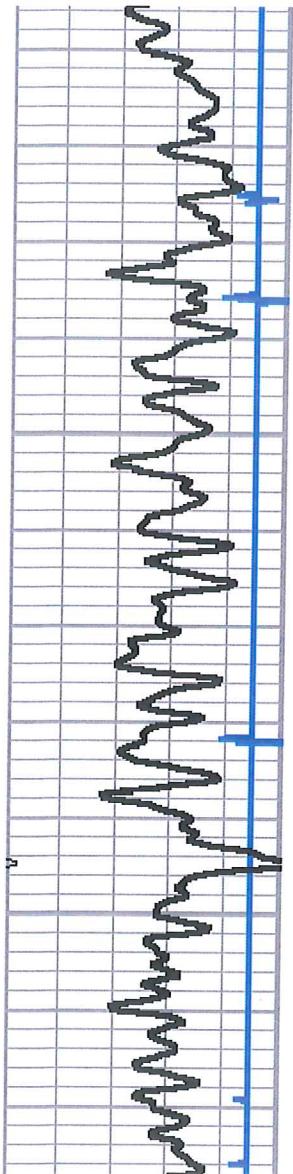
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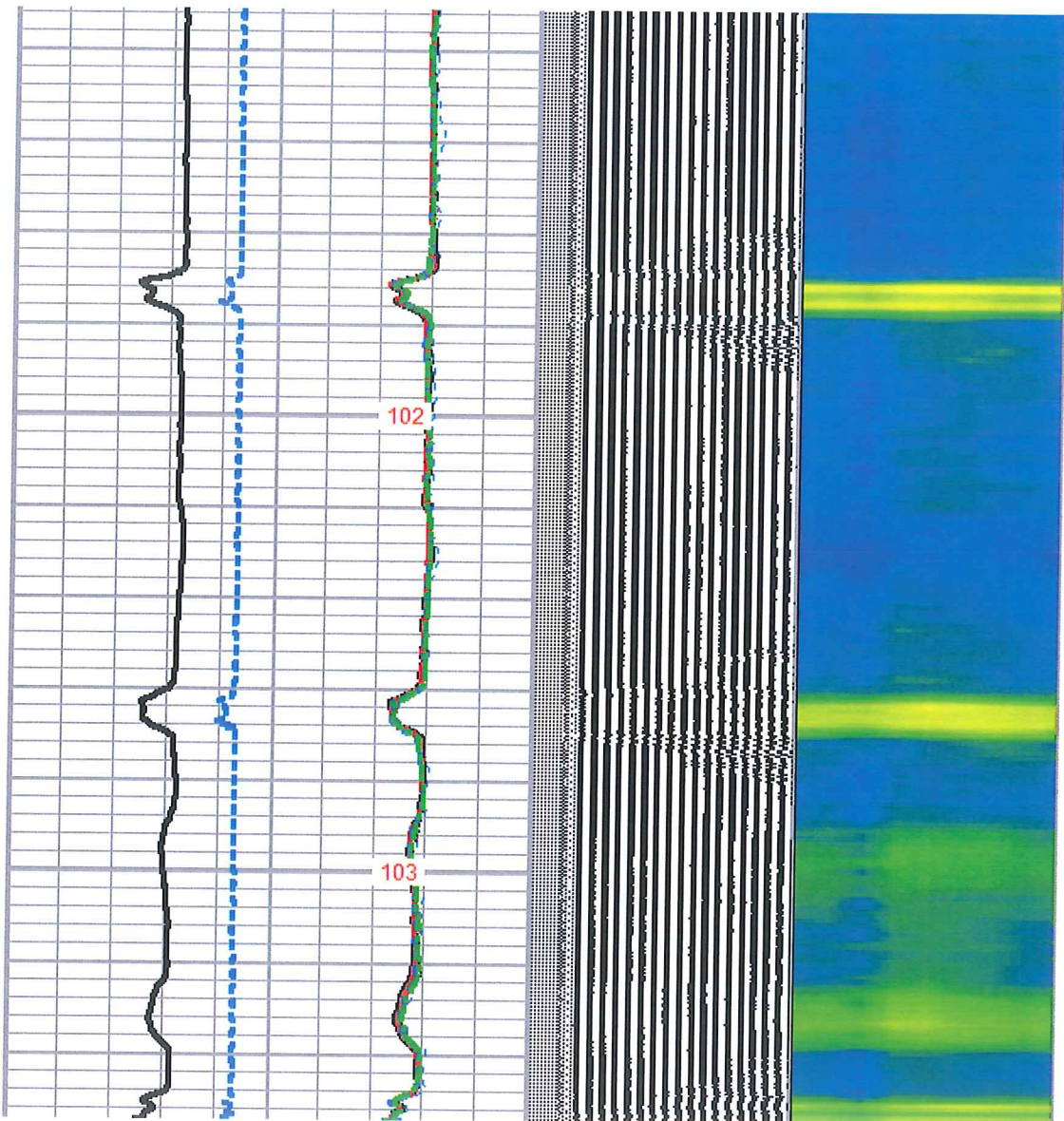






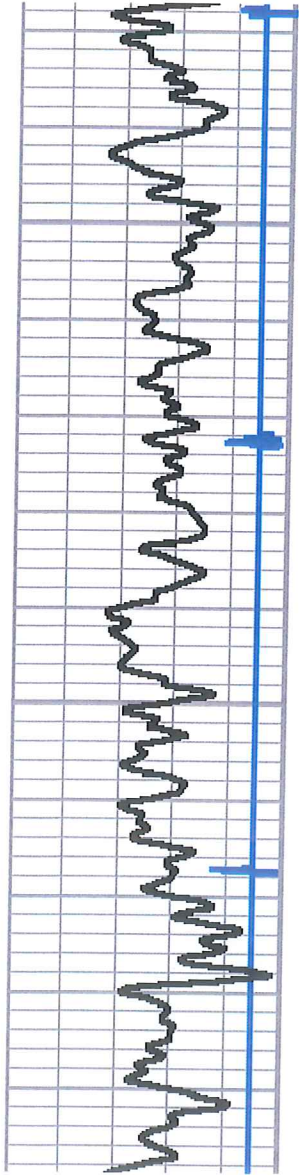
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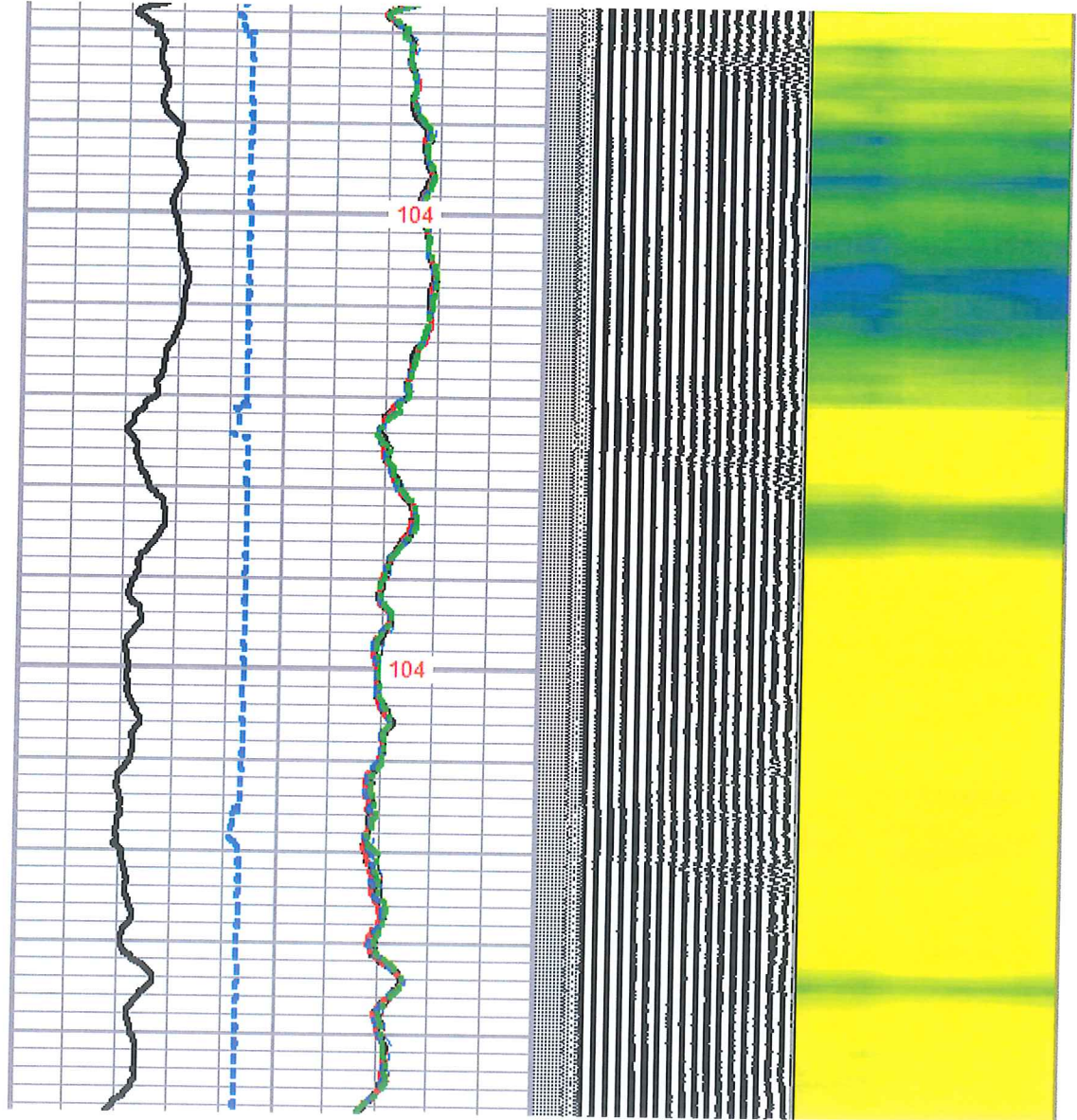
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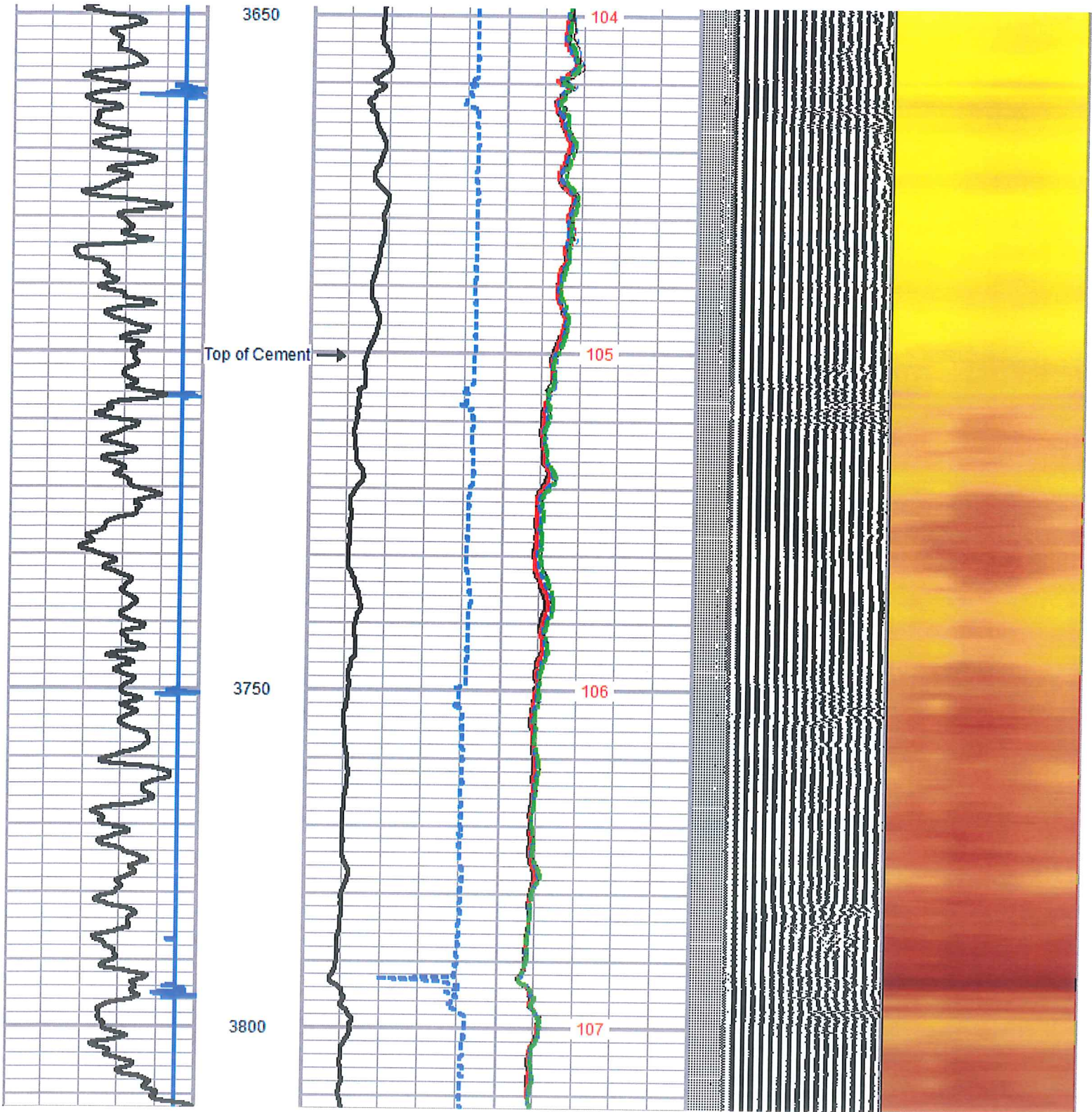
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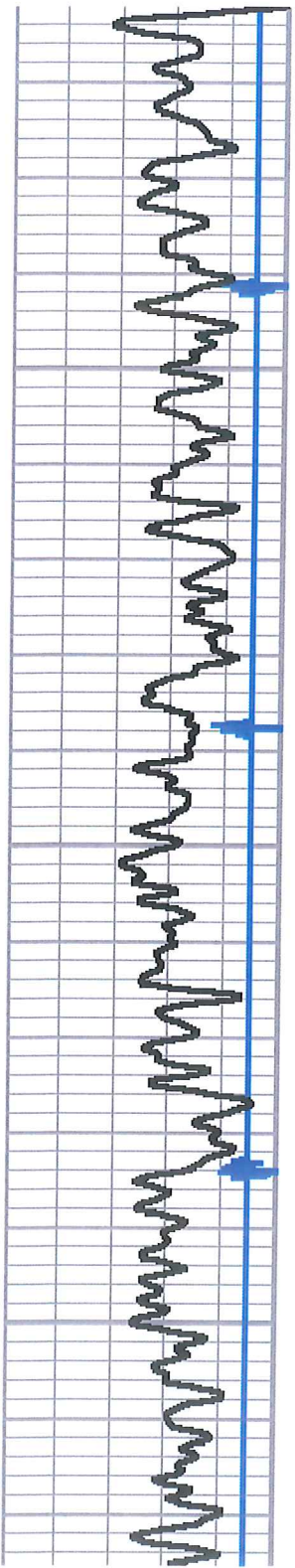


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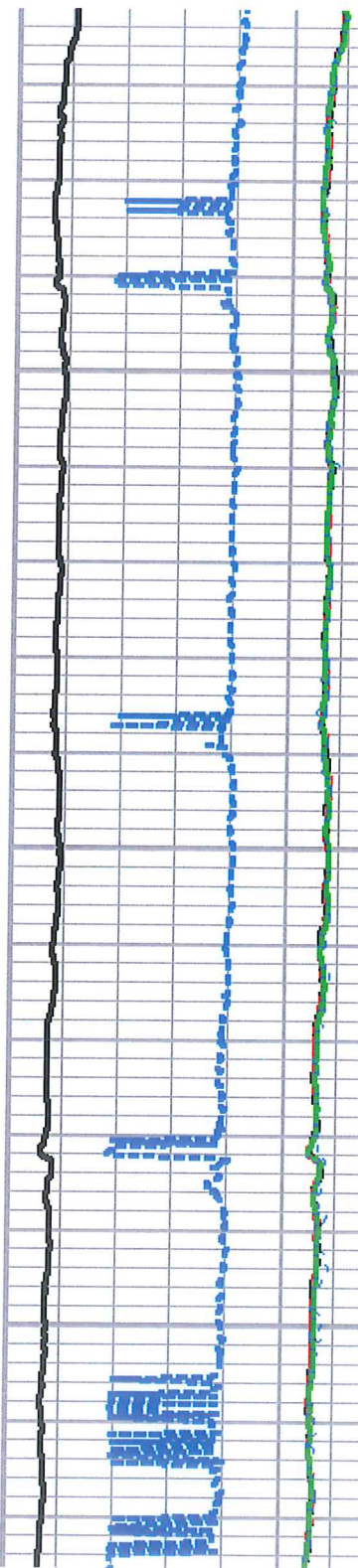




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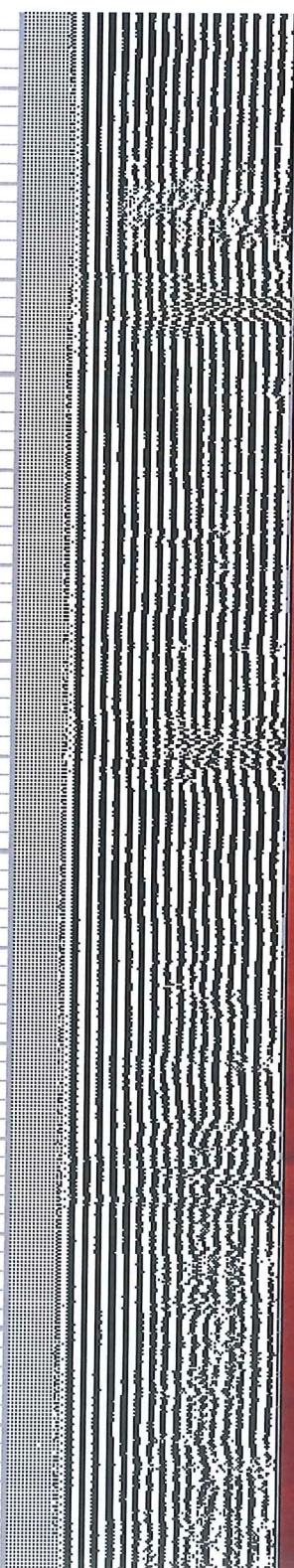
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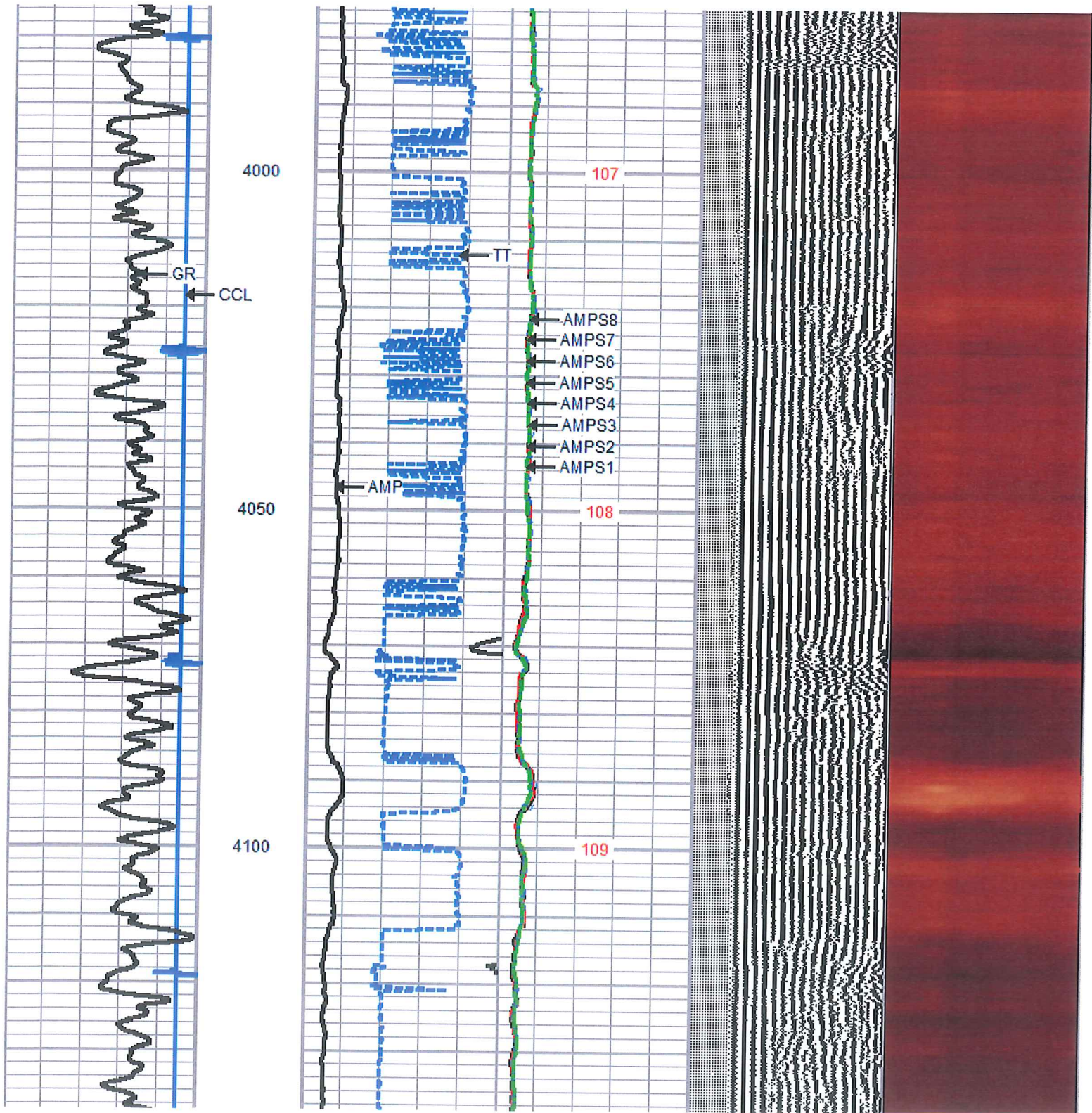


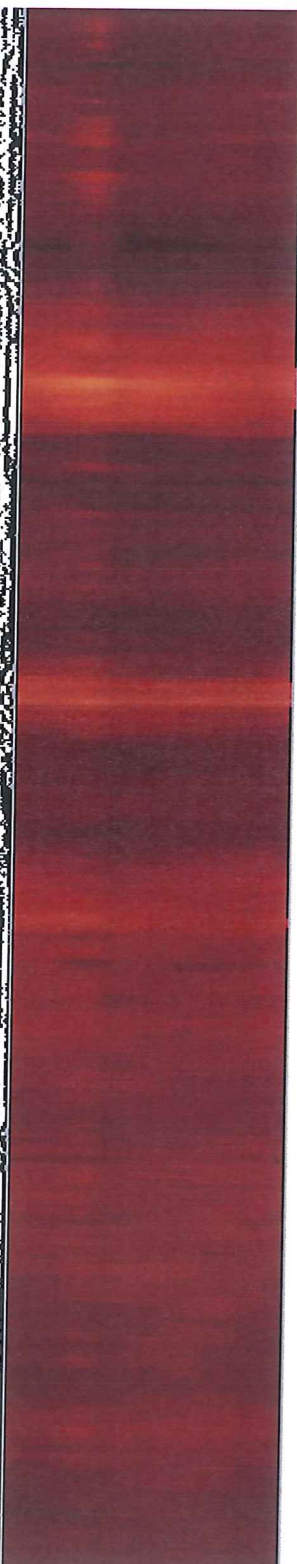
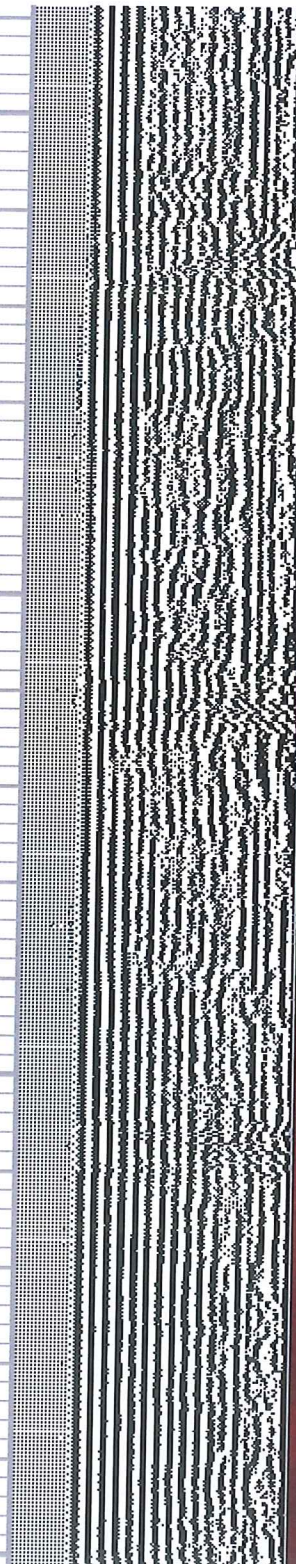
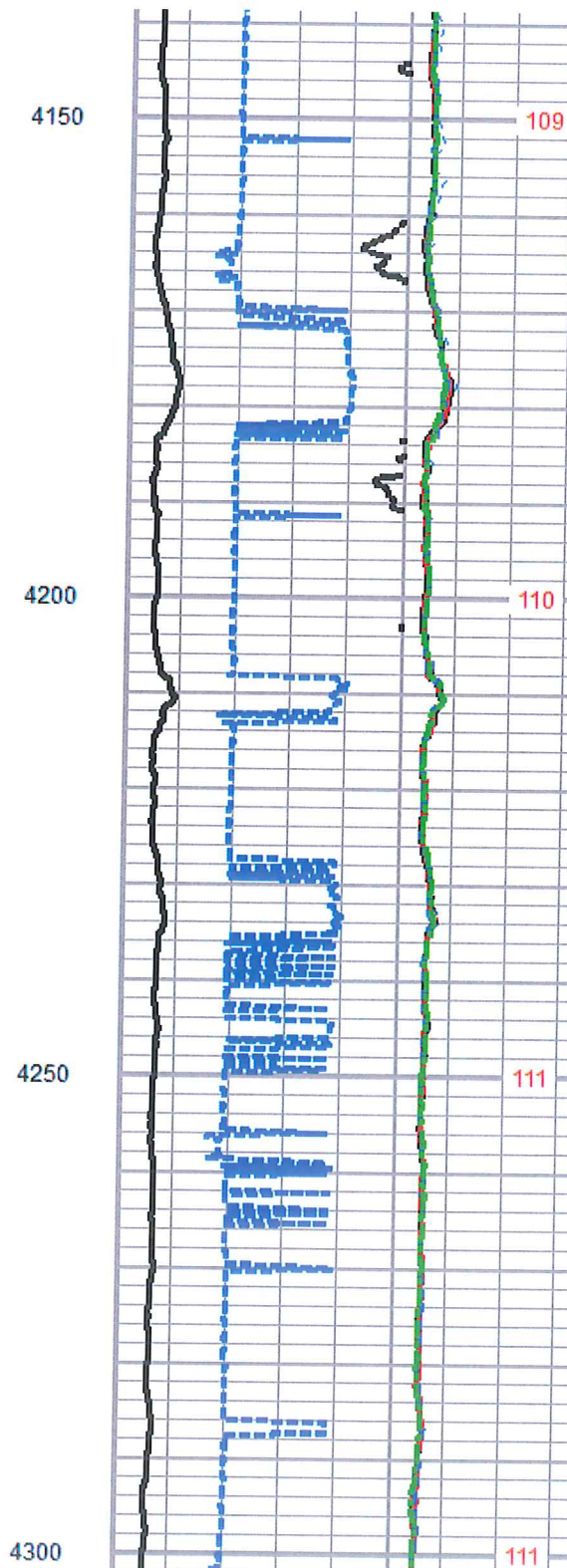
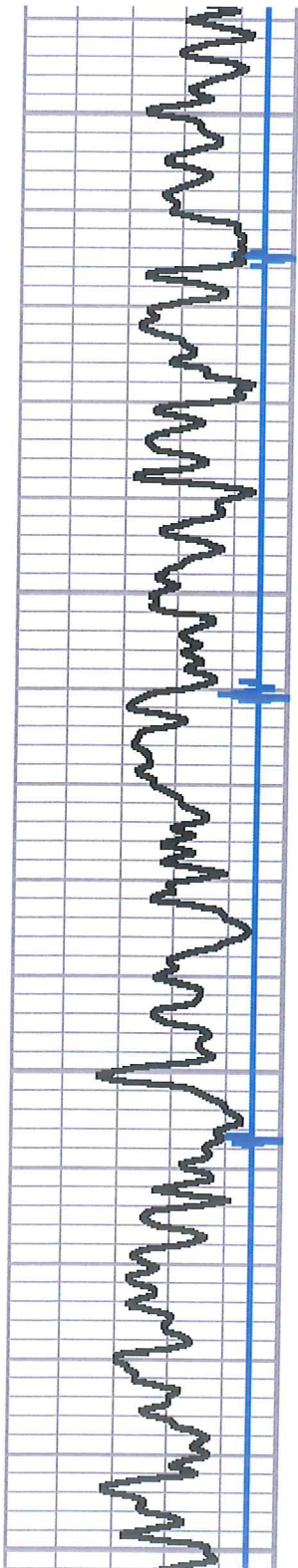
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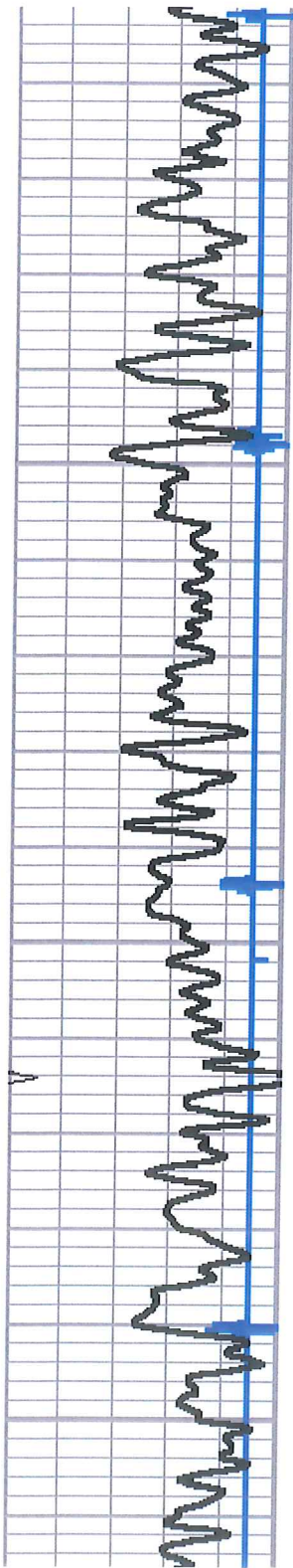
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107





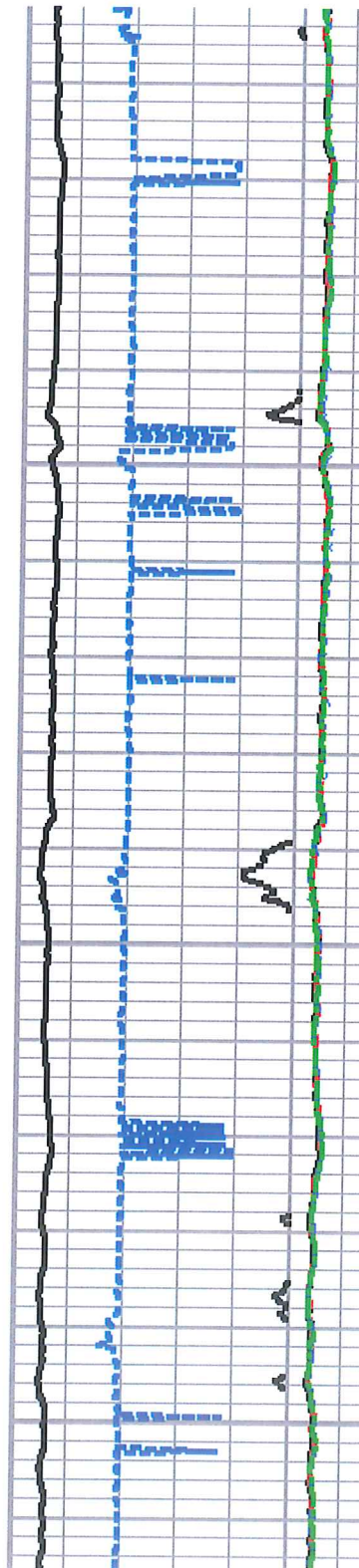




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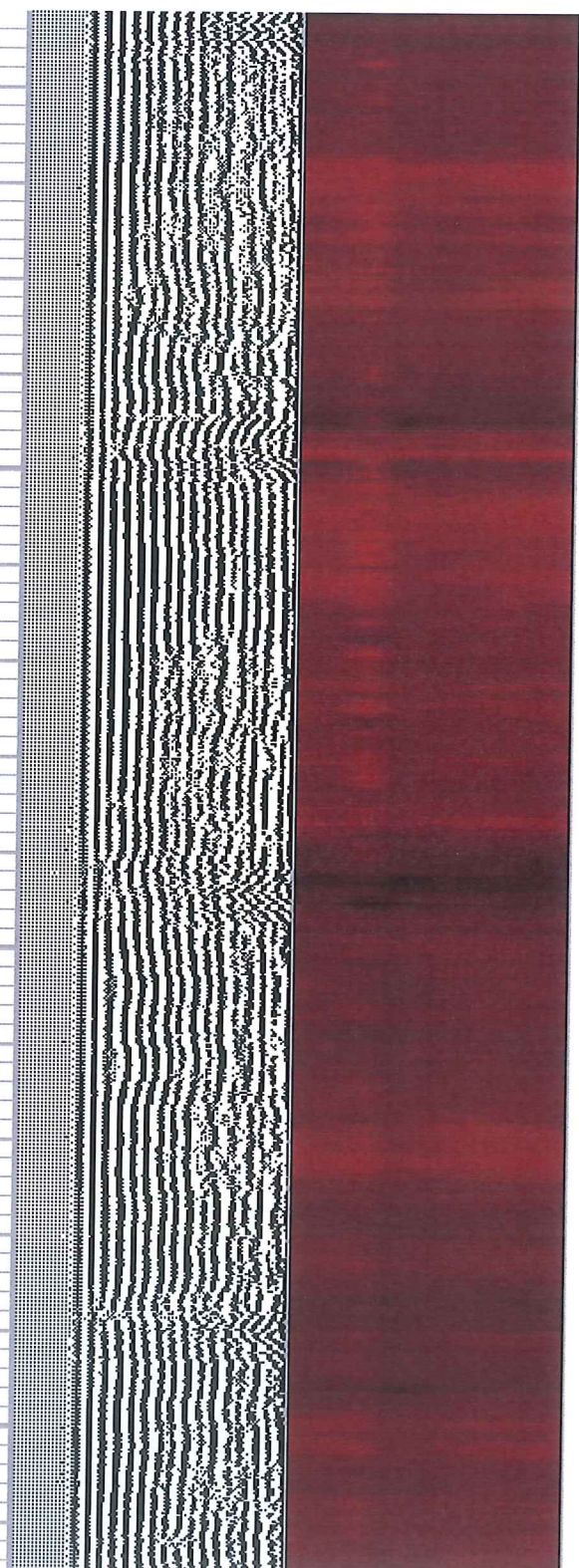
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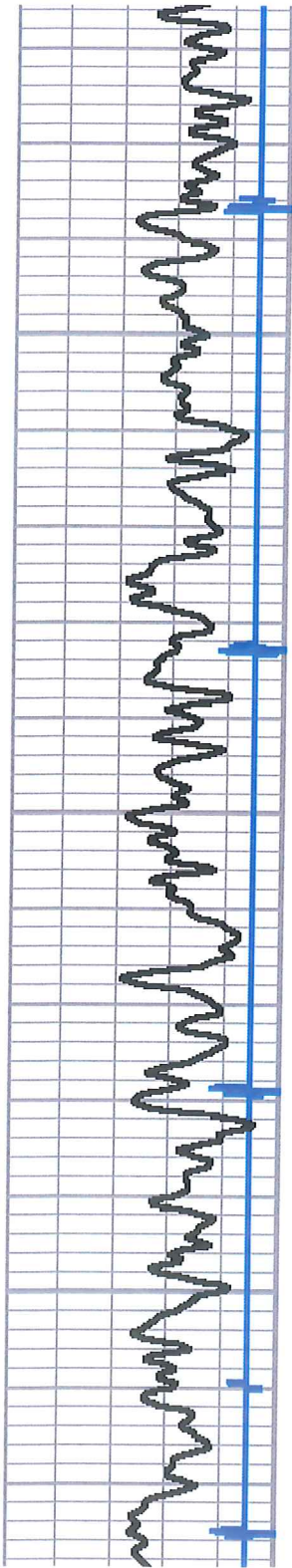


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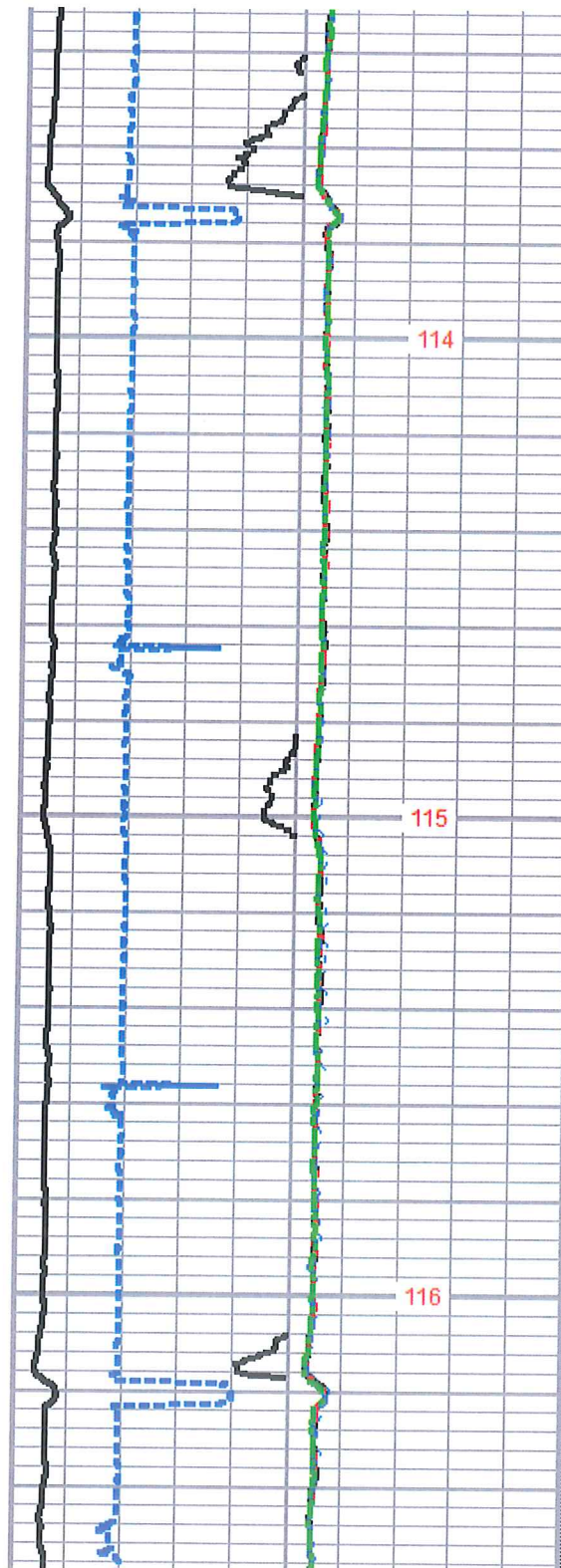




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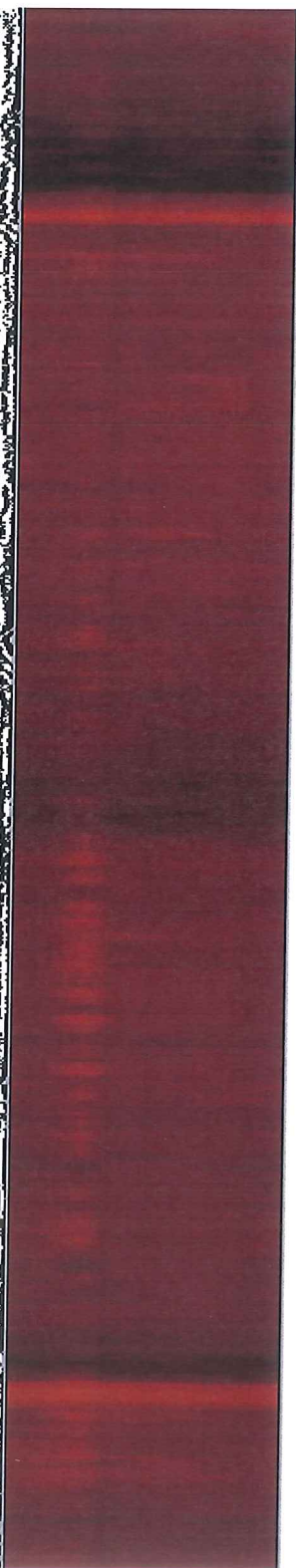
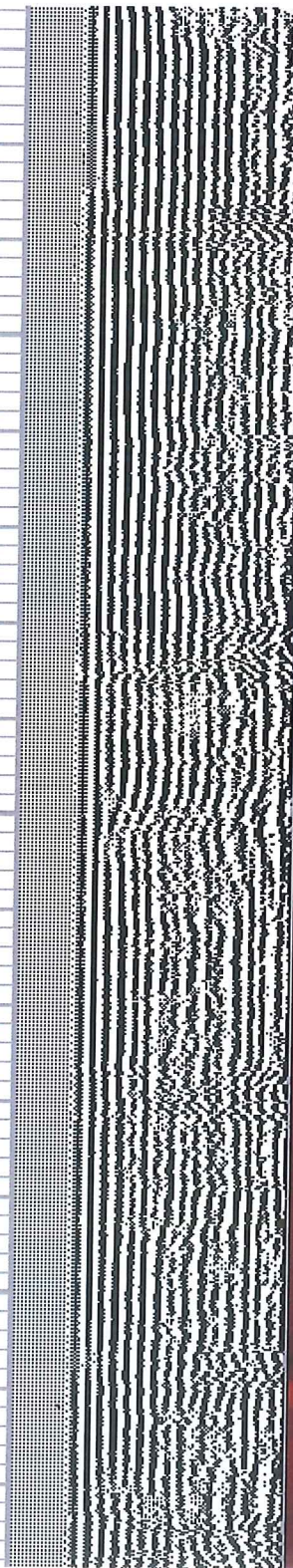
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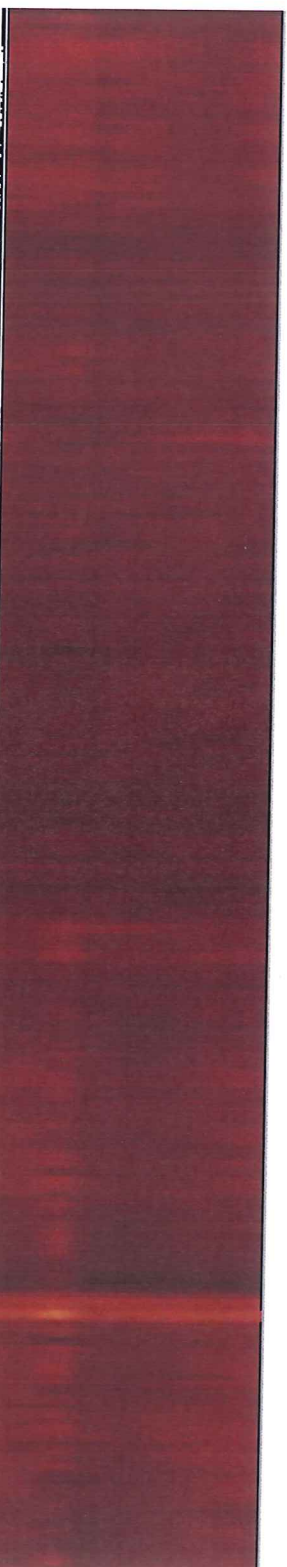
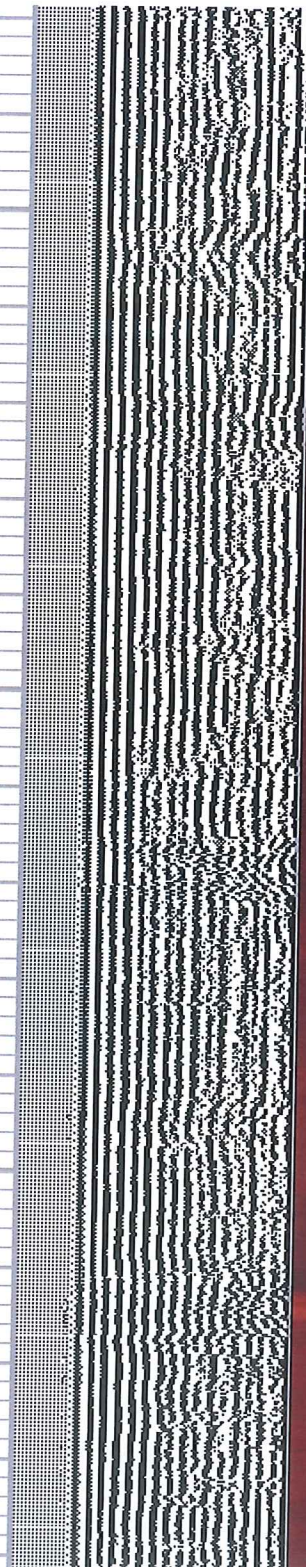
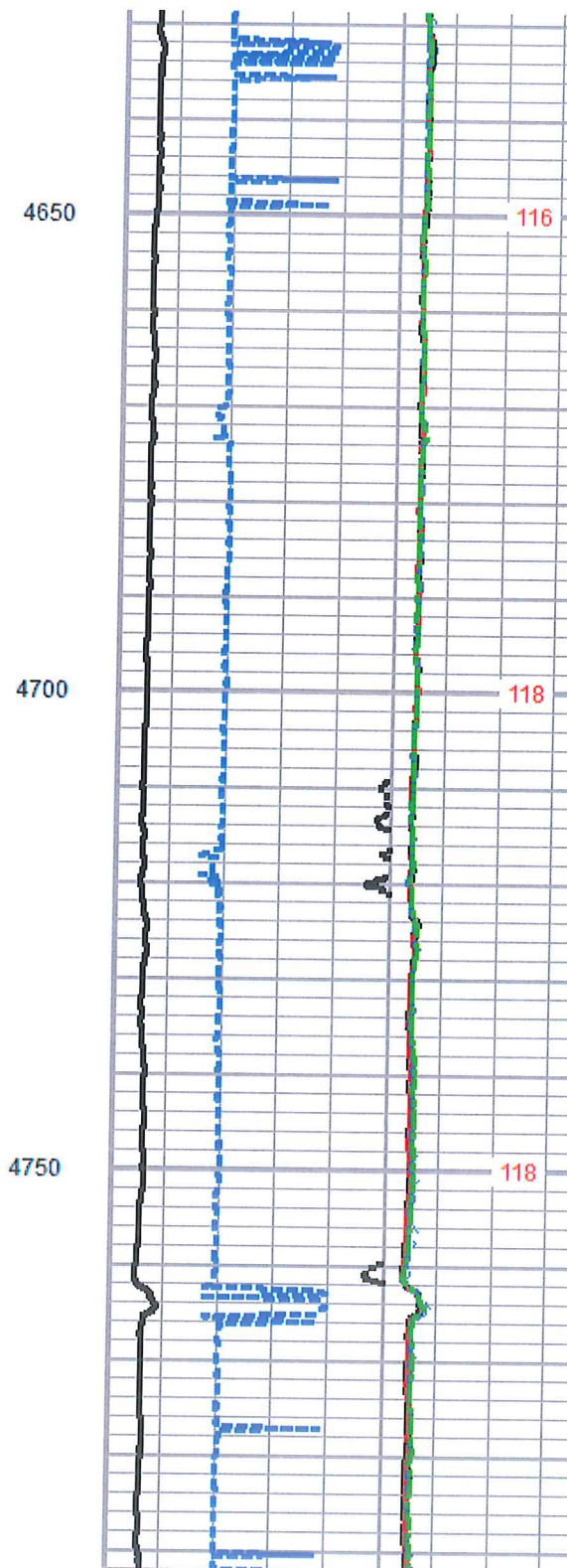
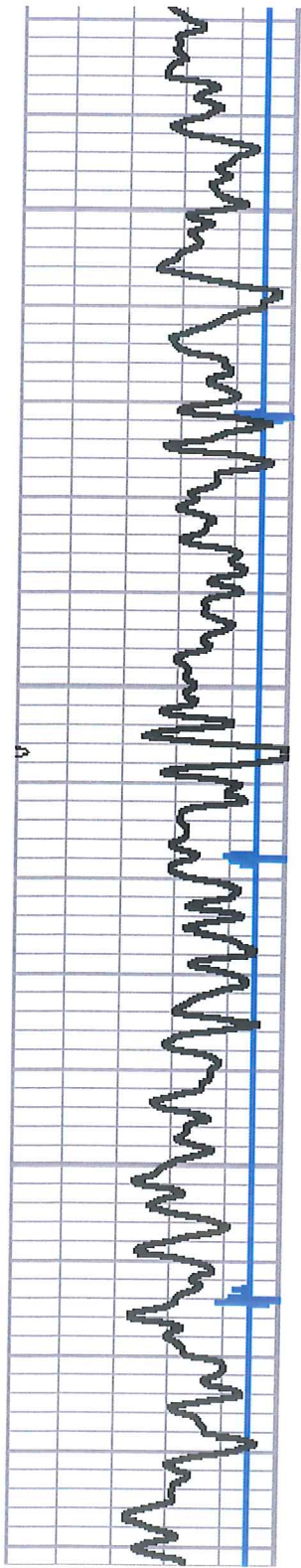
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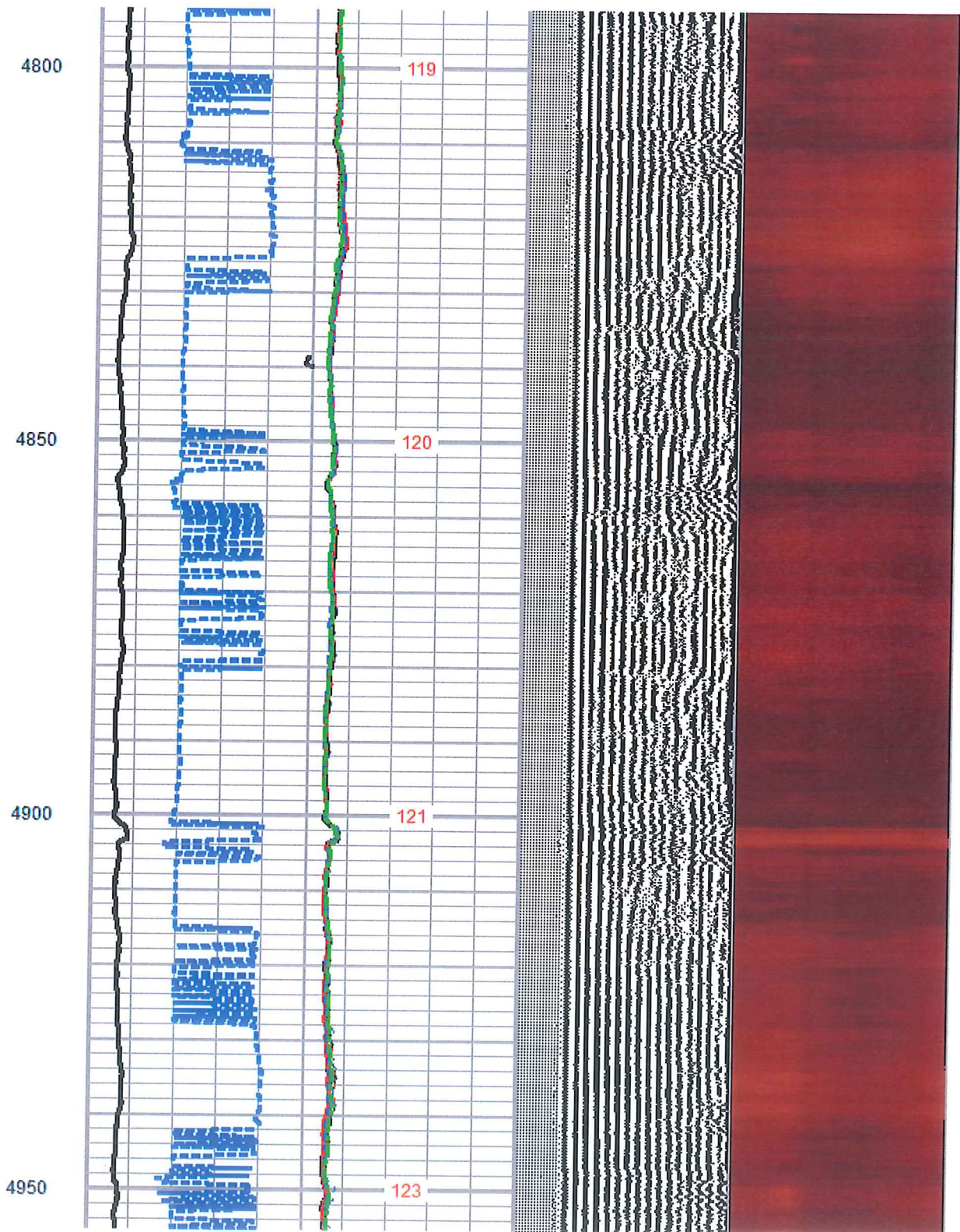
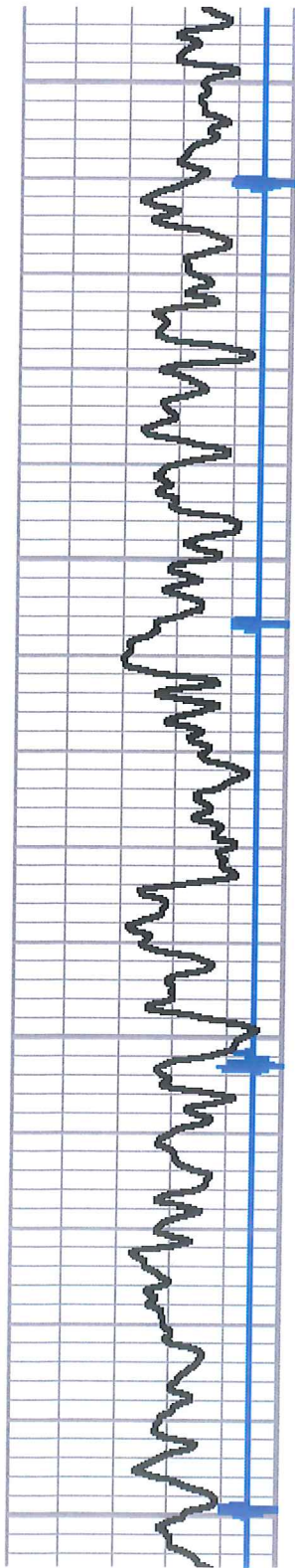
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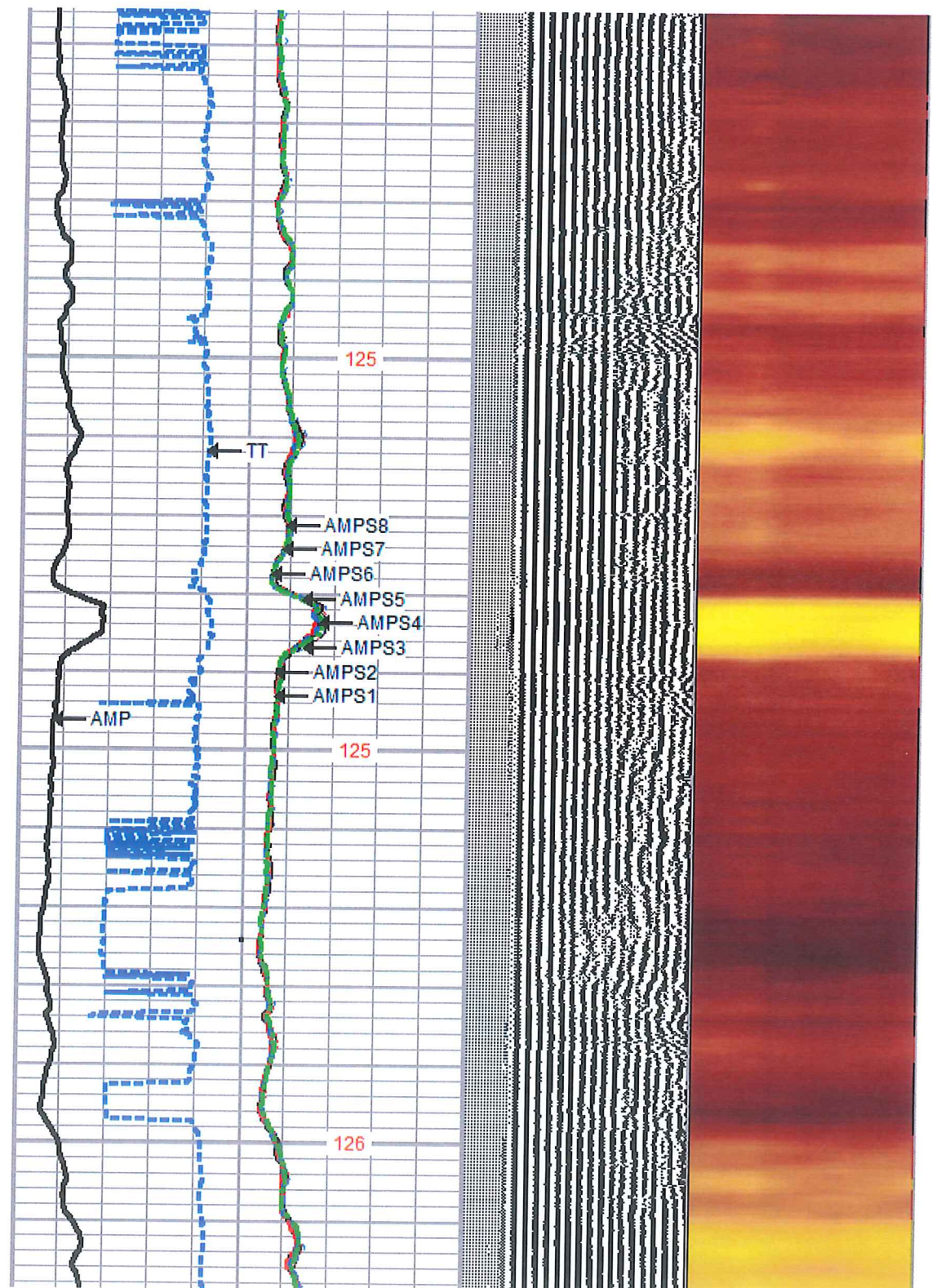
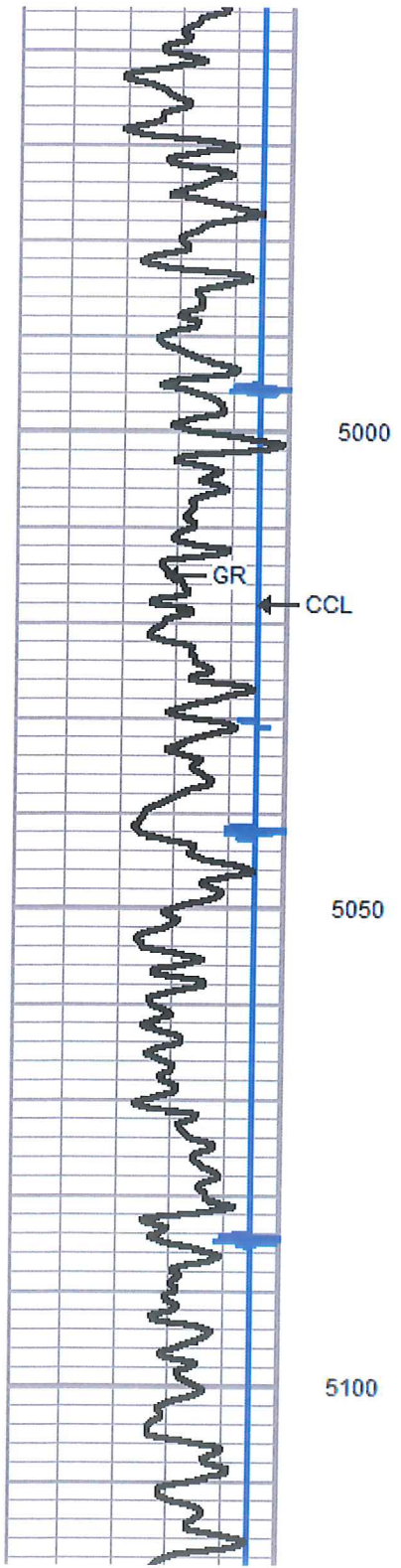
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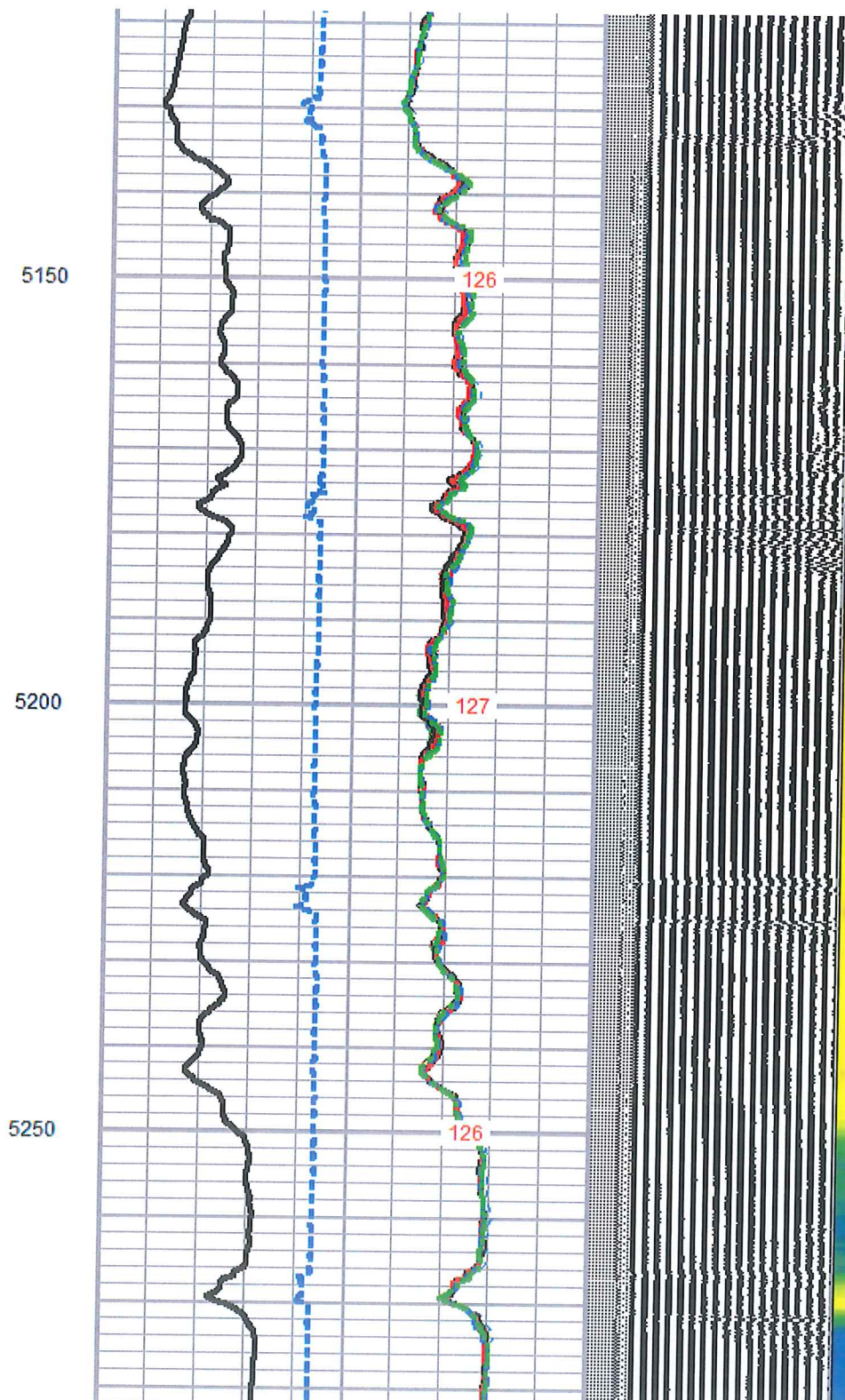
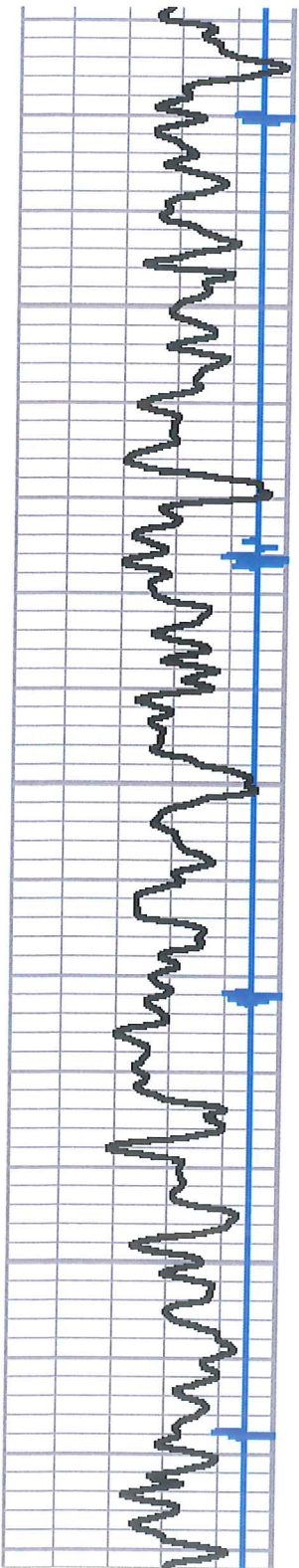


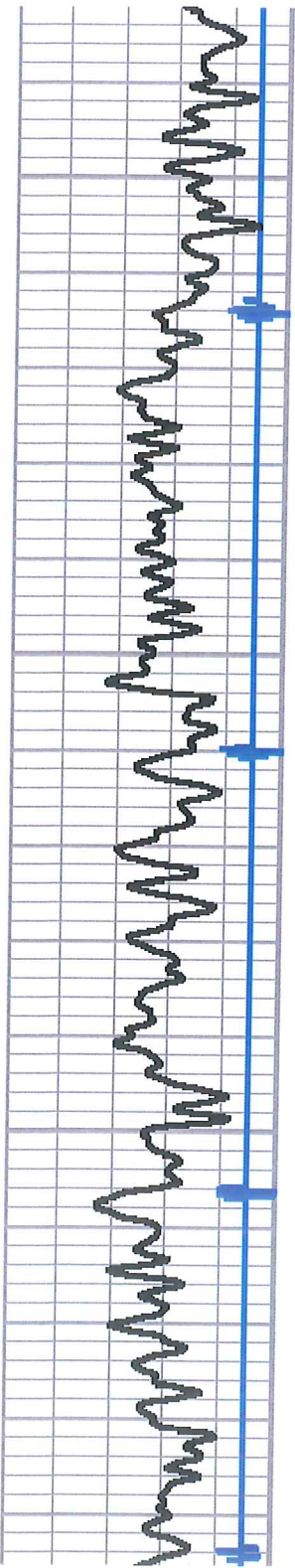








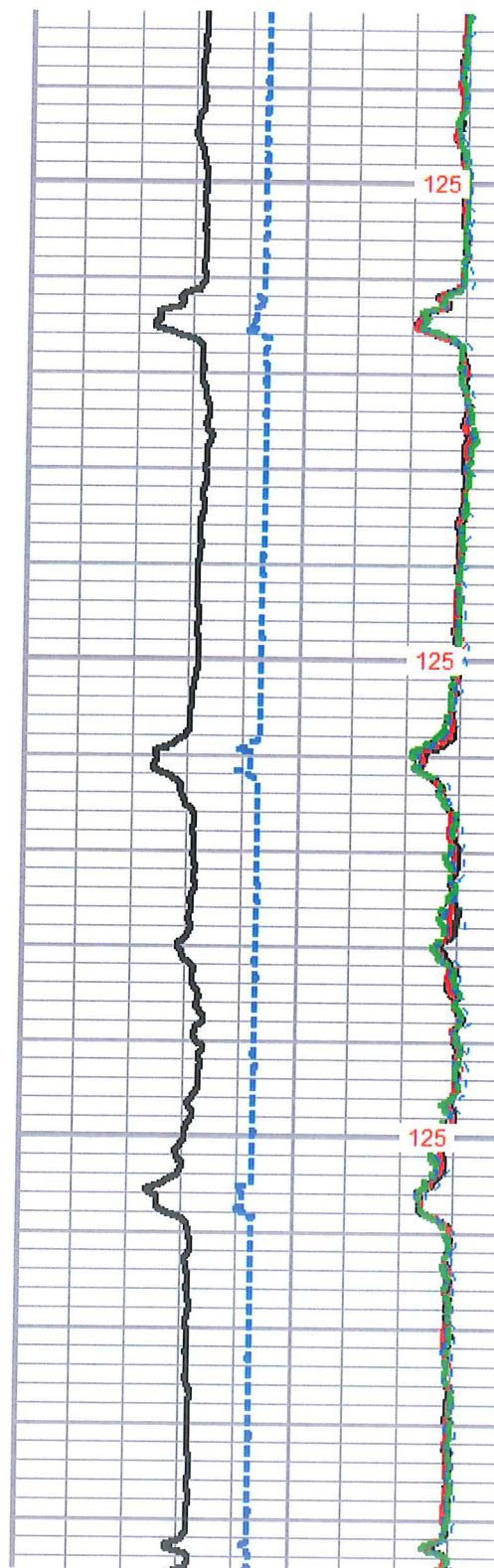




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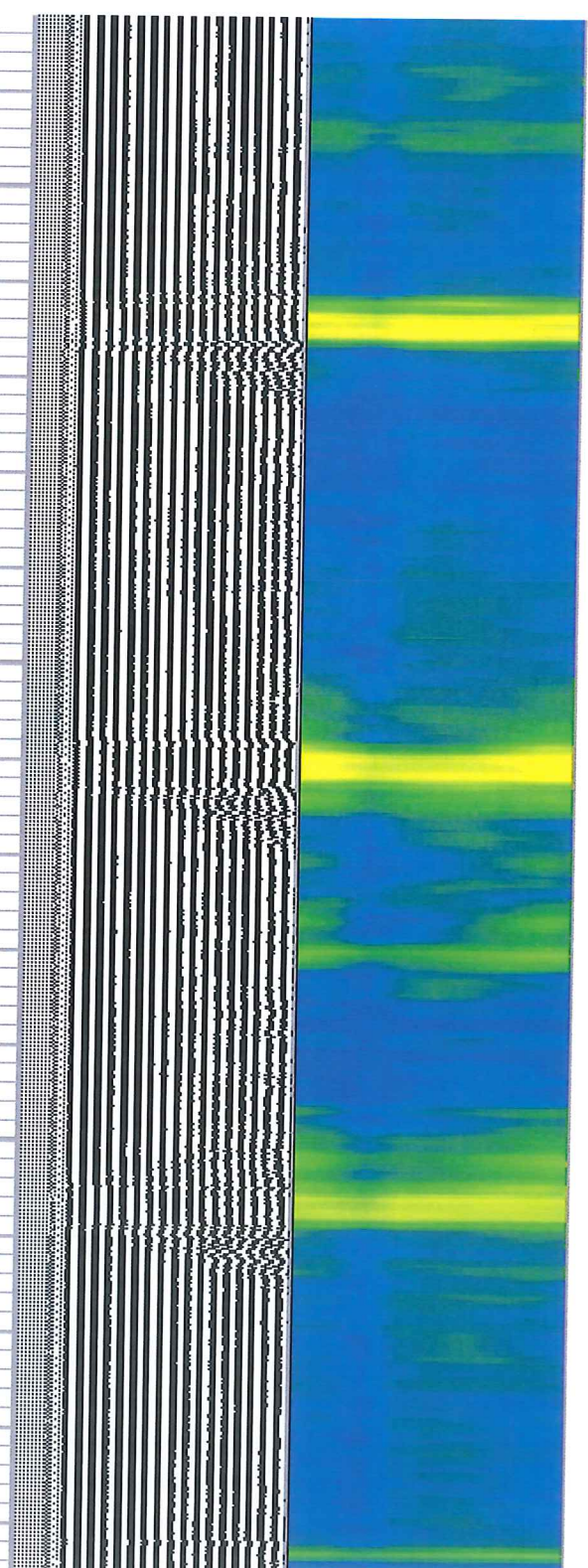
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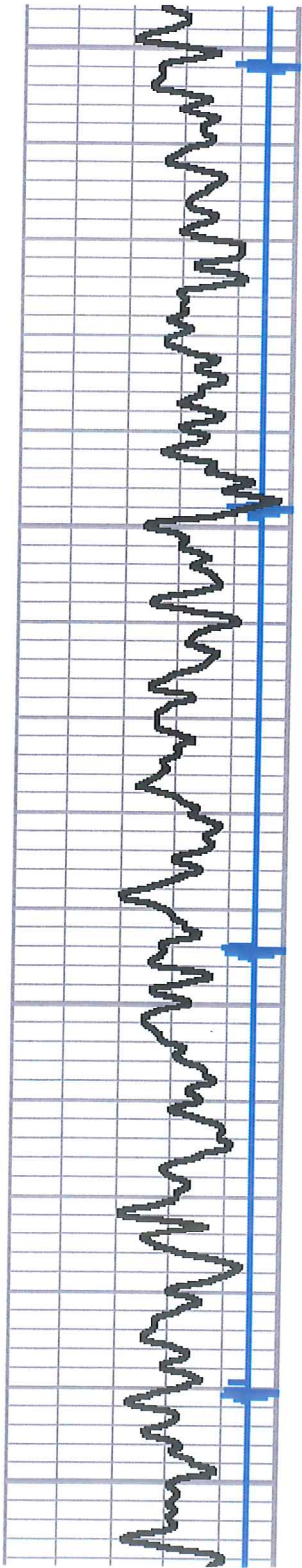


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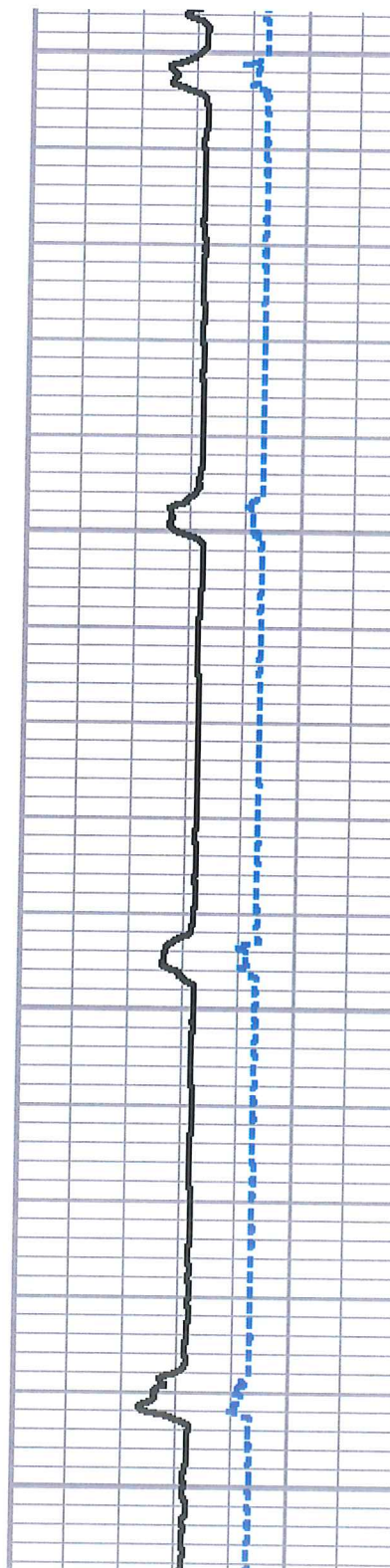
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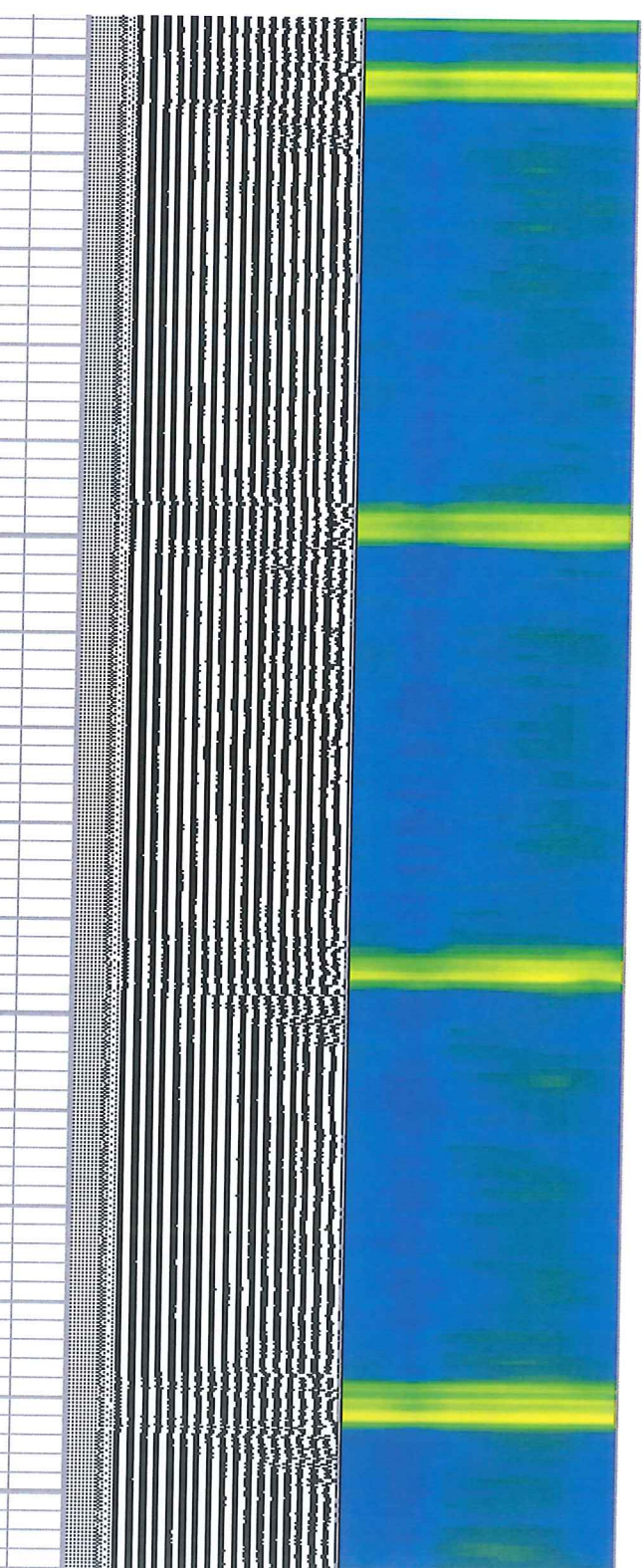


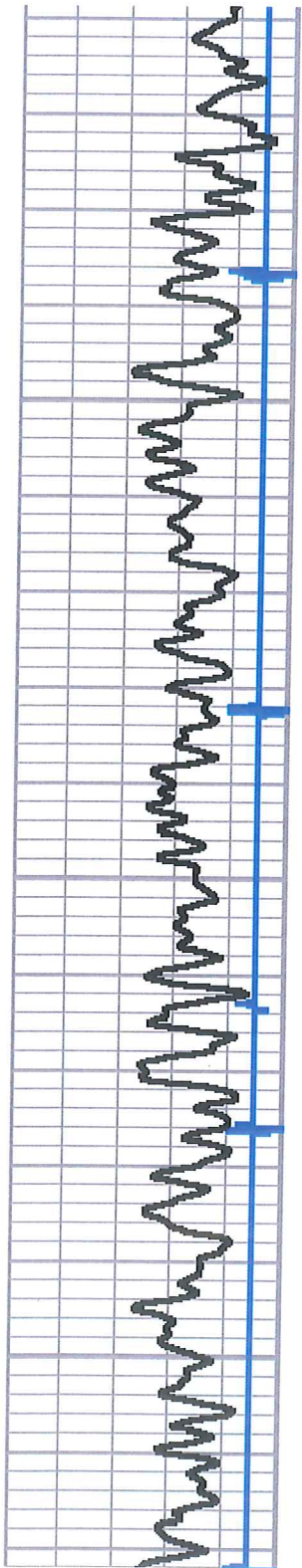


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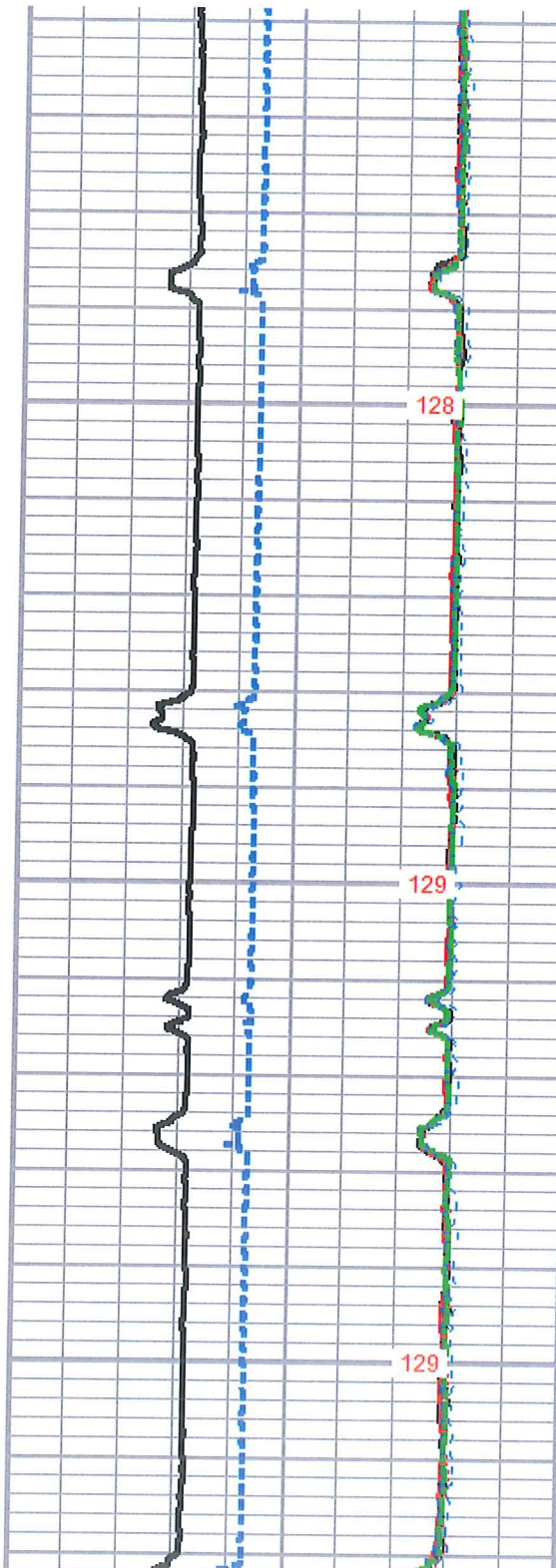




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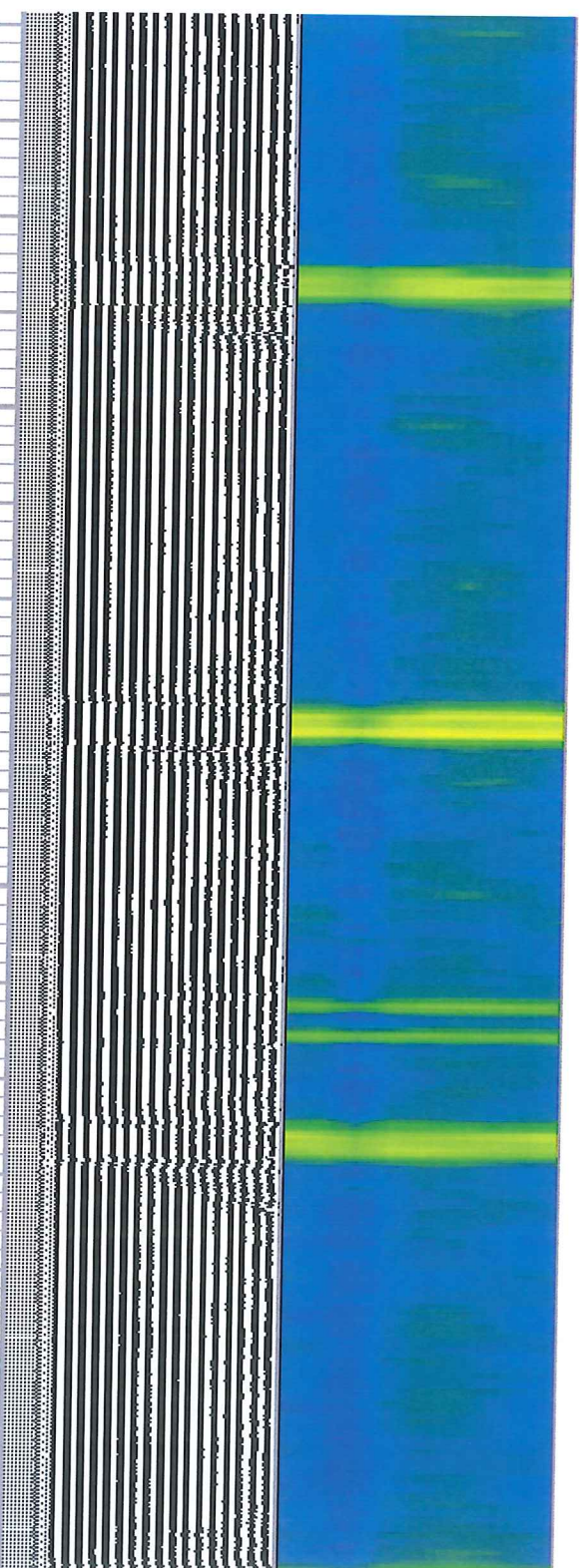
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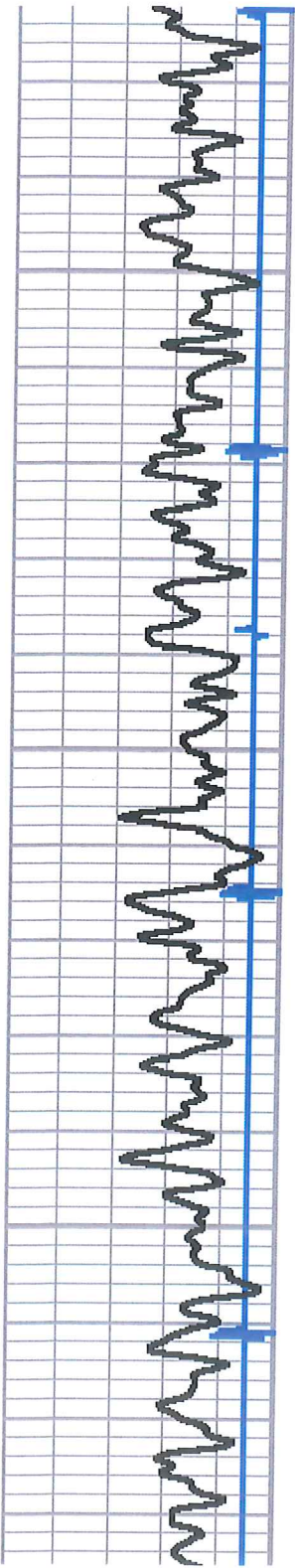


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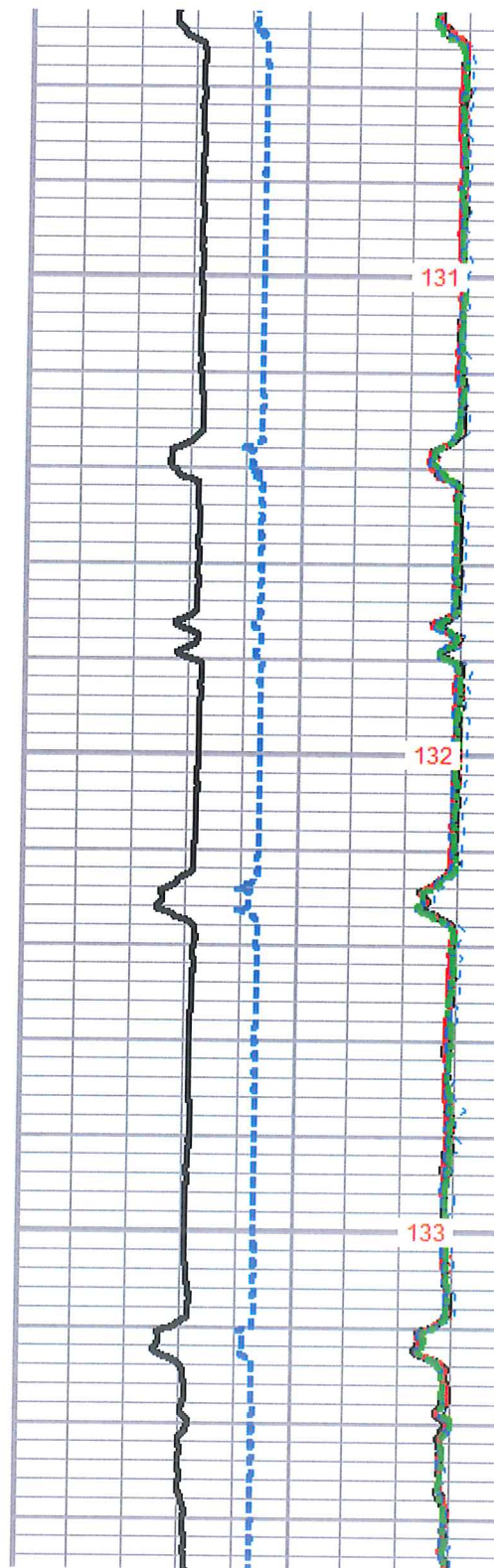




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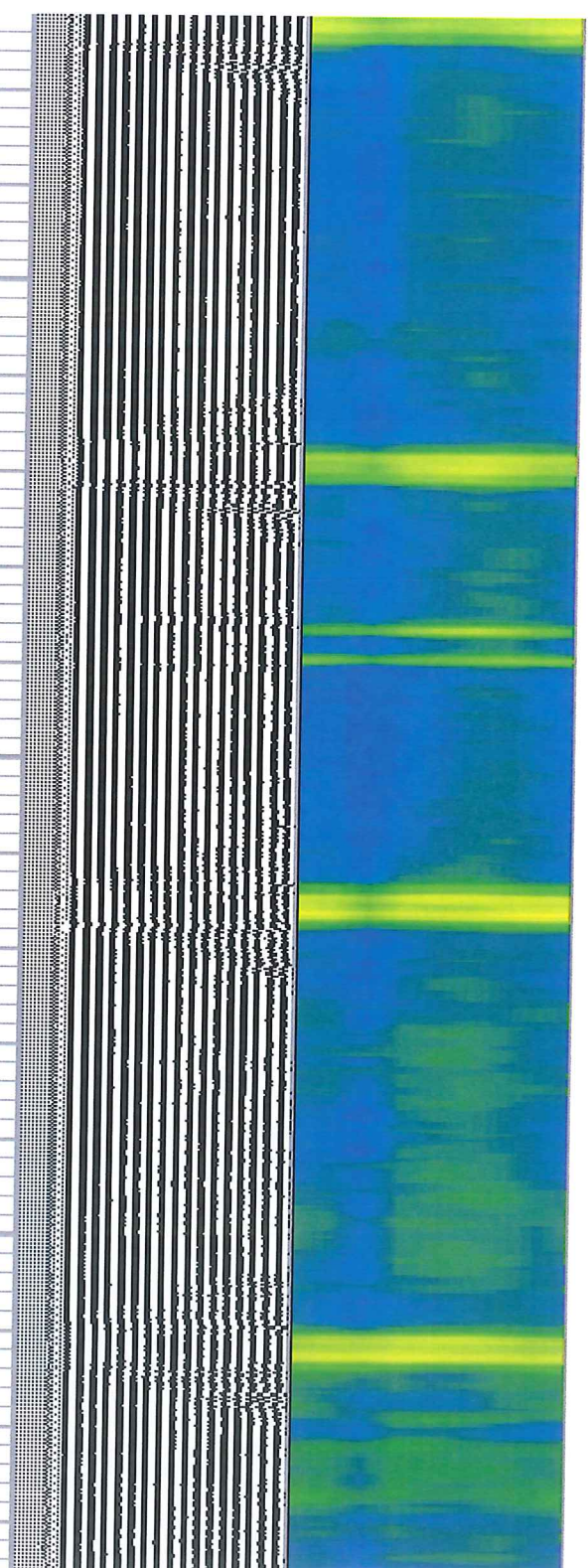
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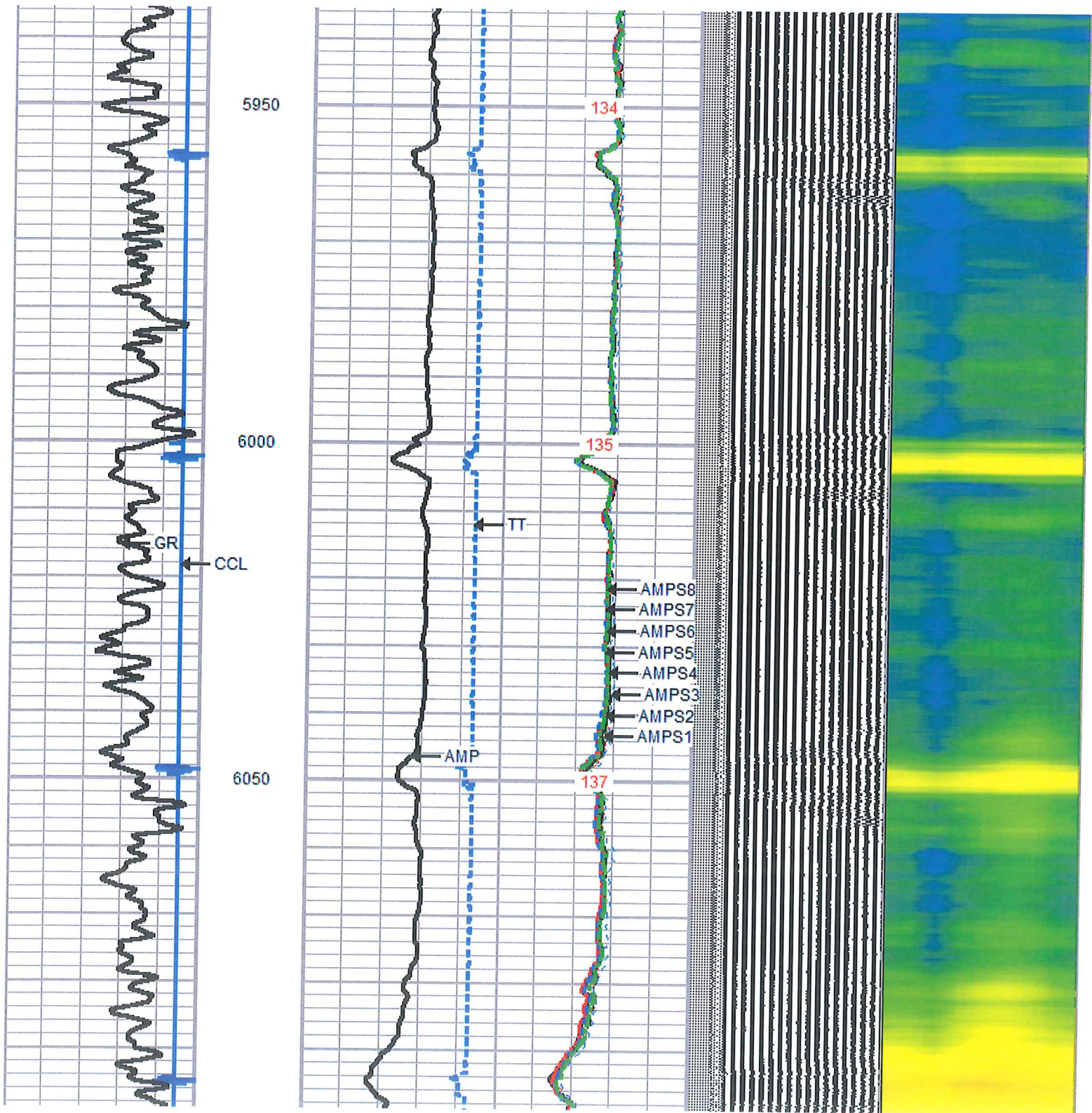
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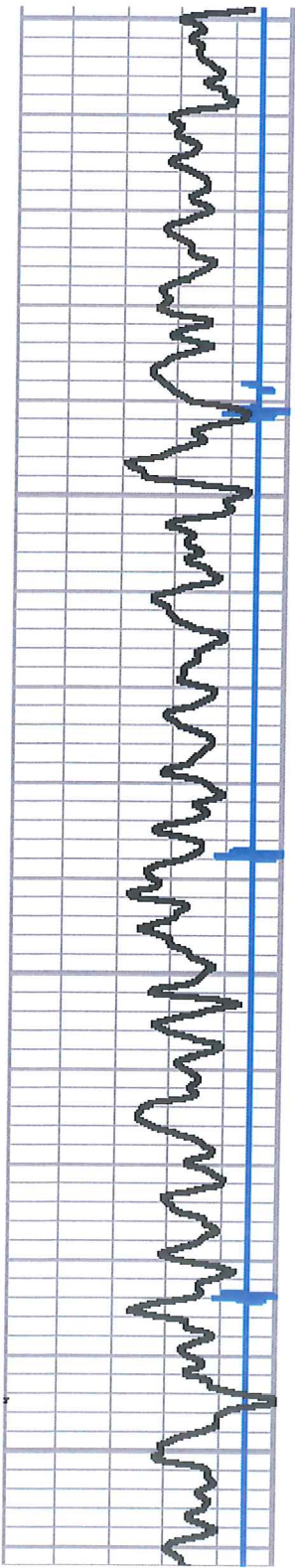
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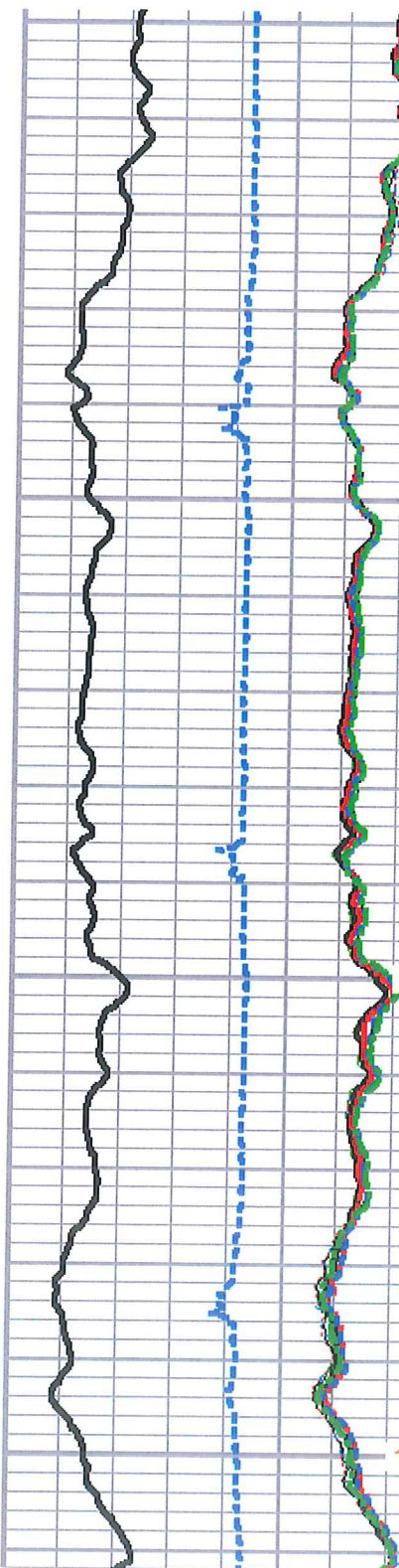




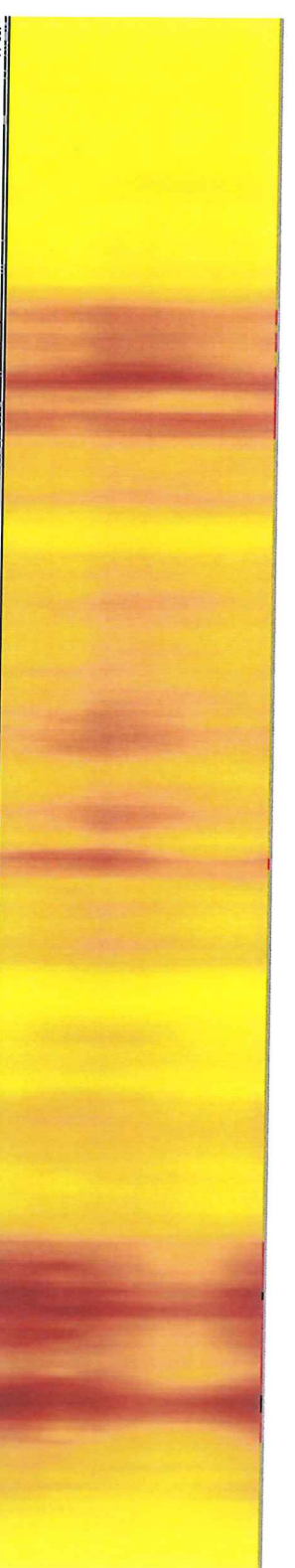
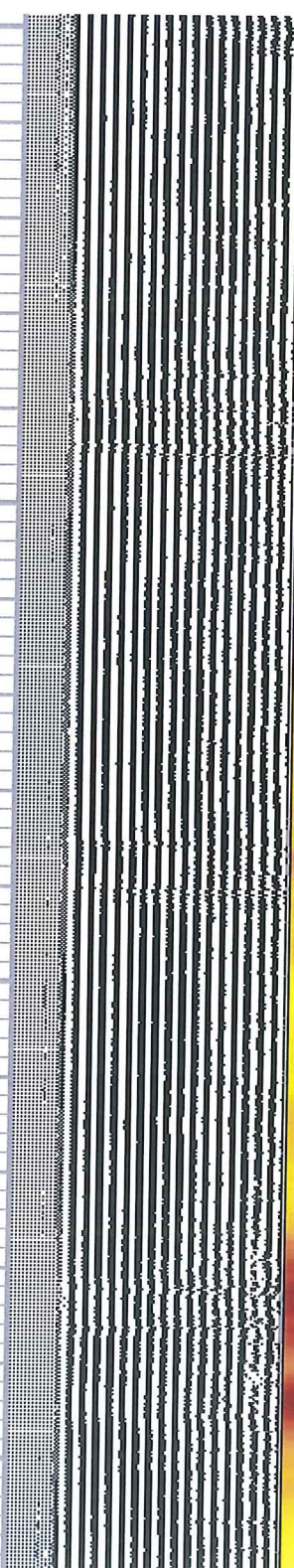


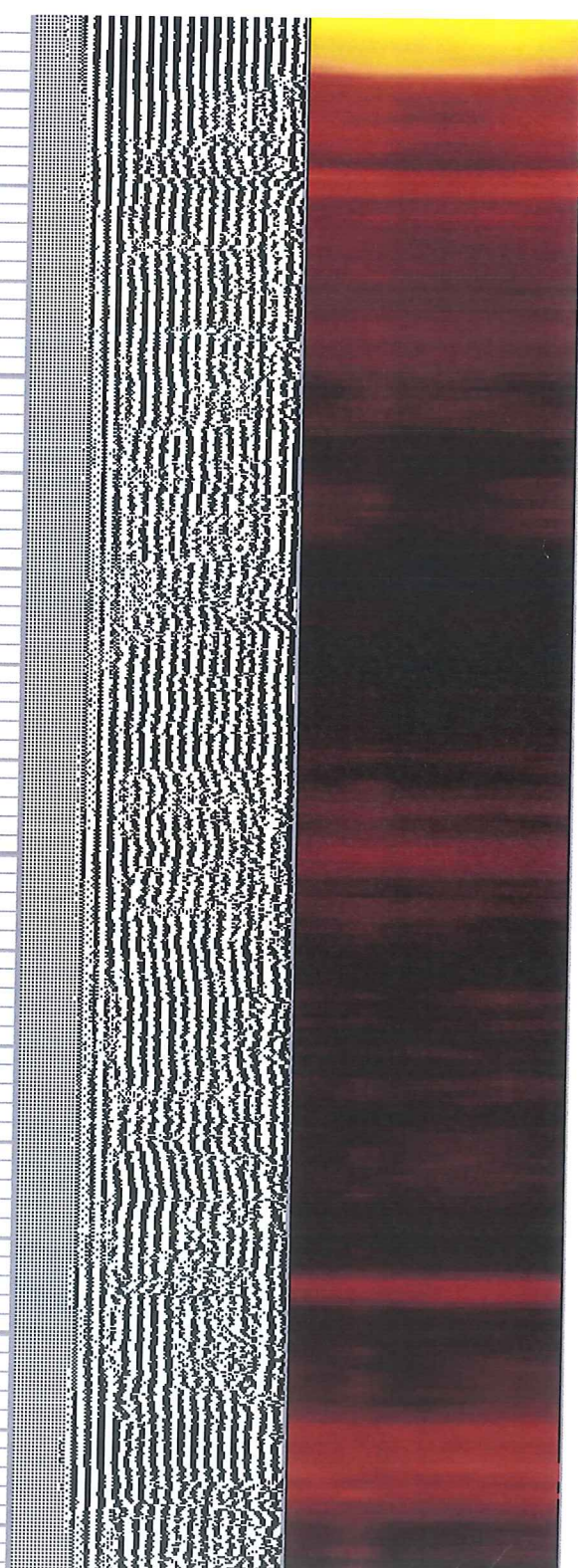
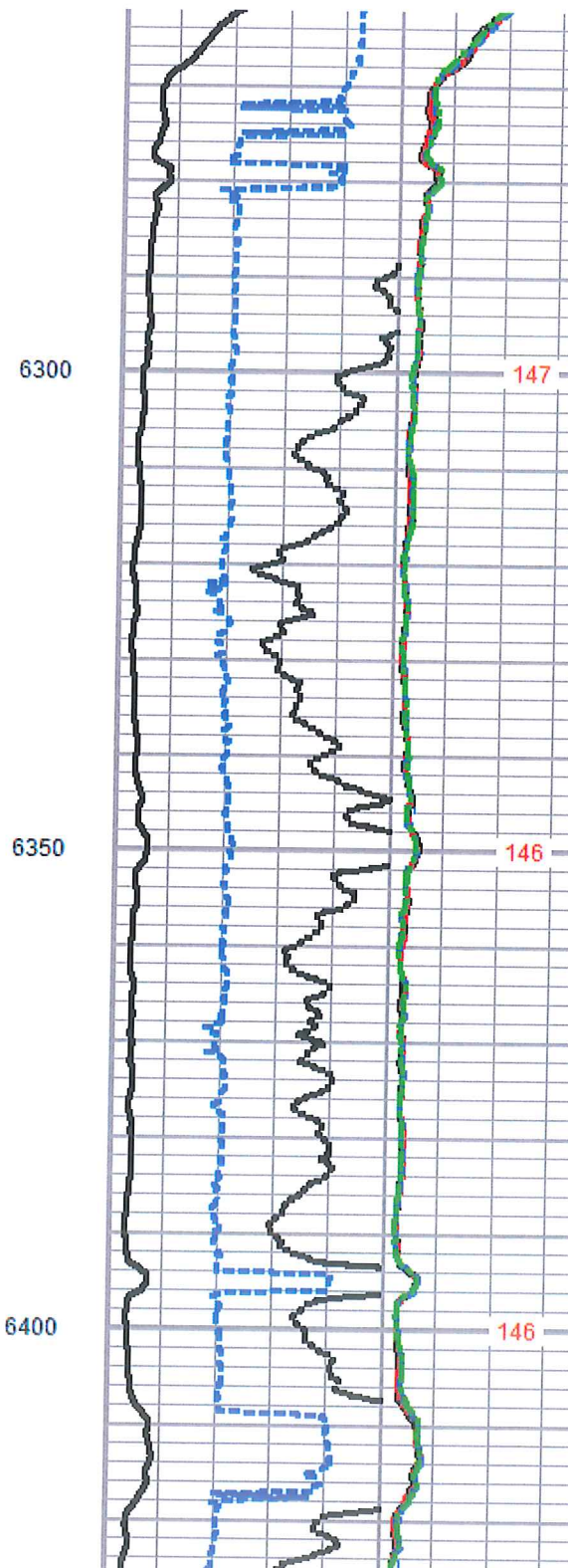
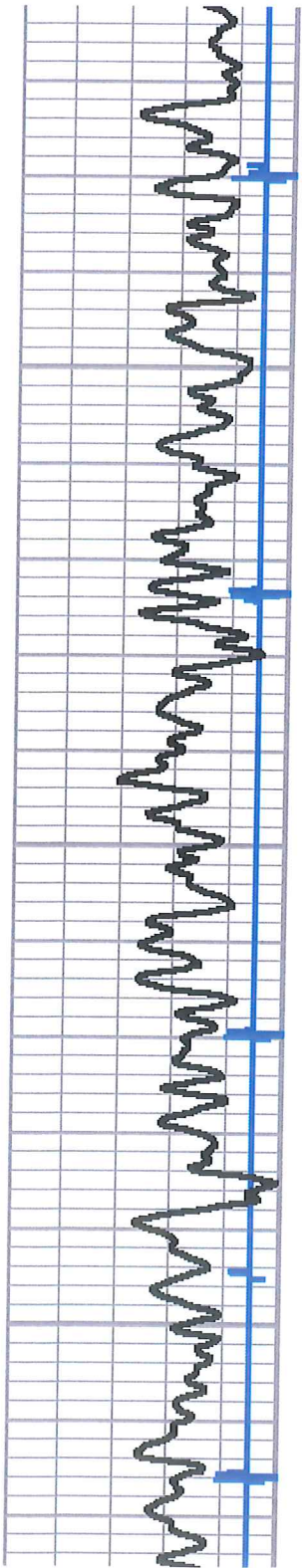


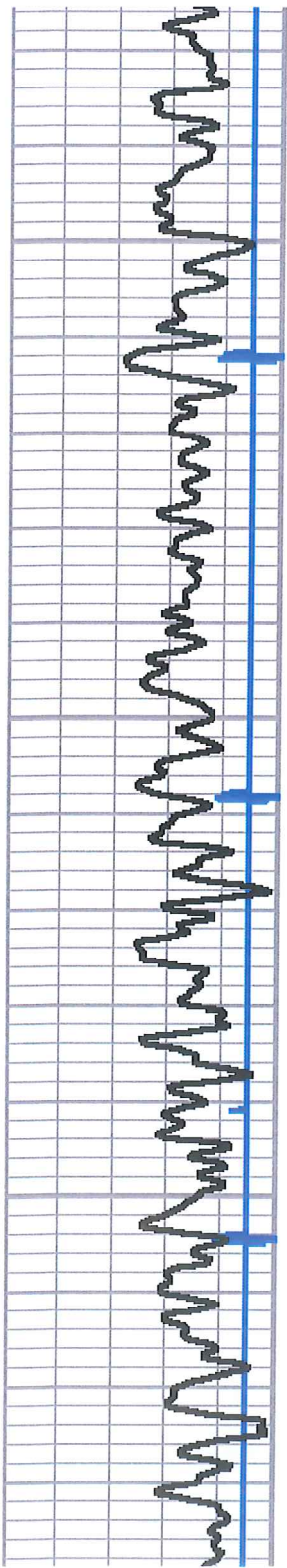
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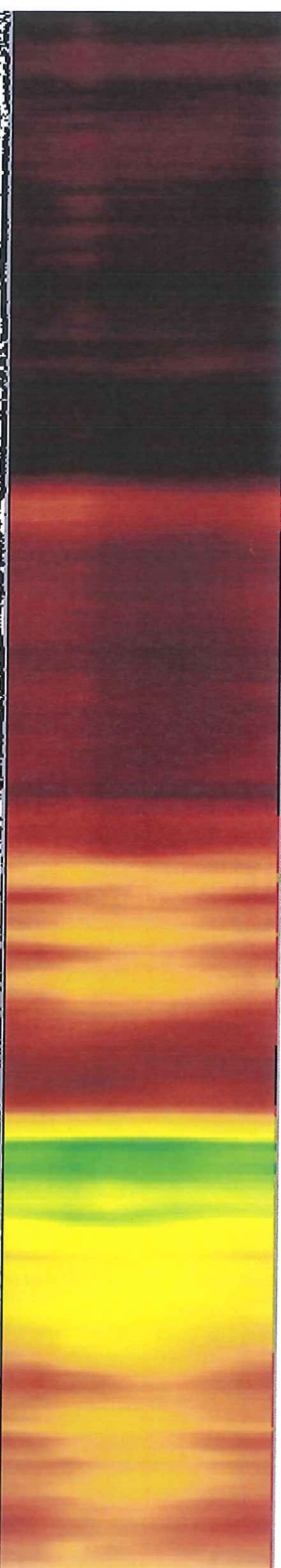
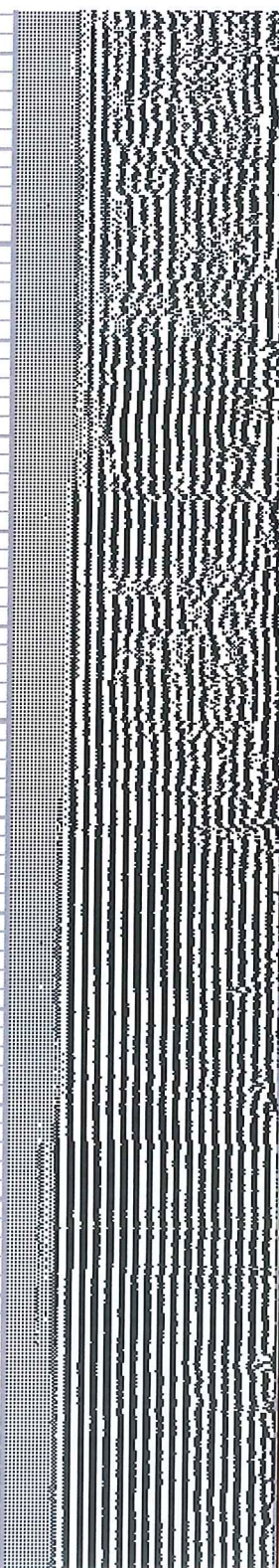
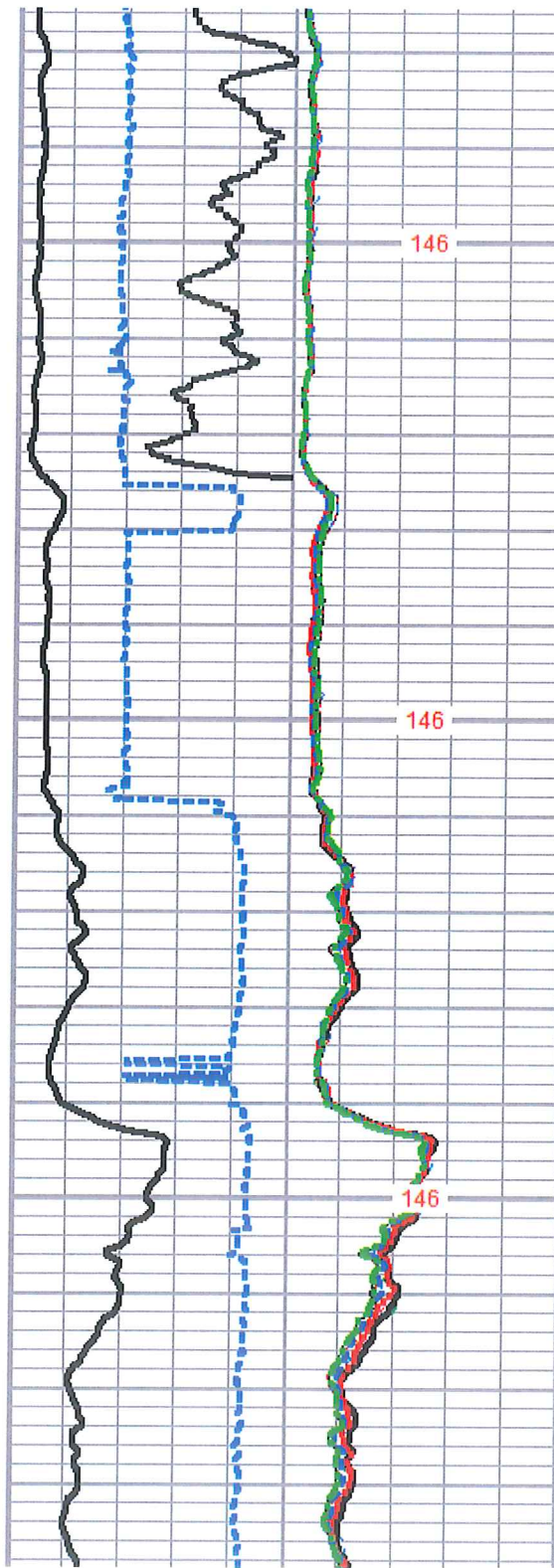


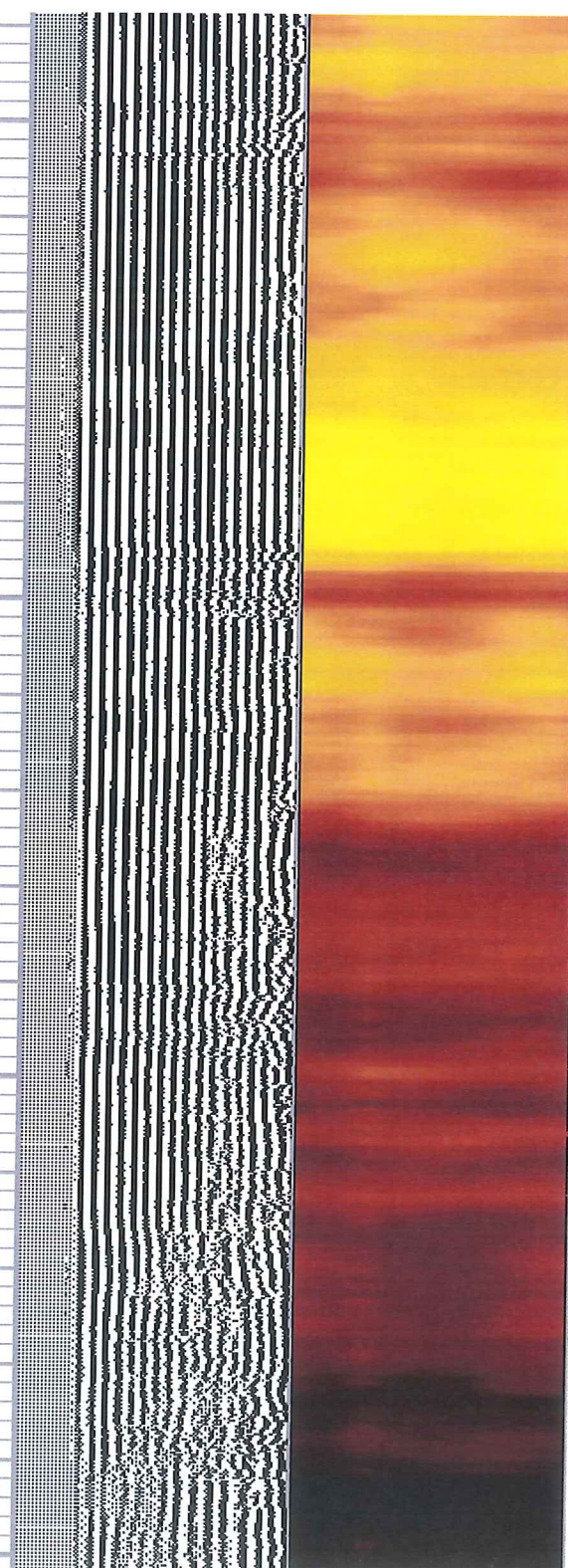
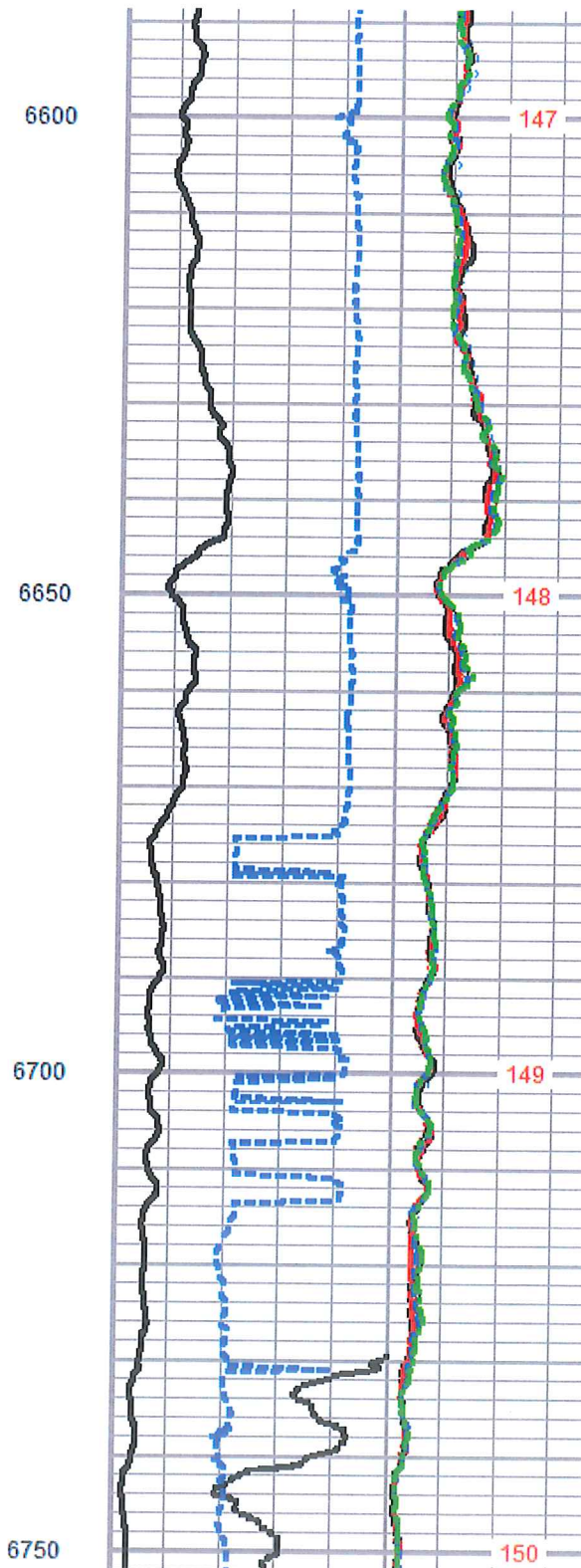
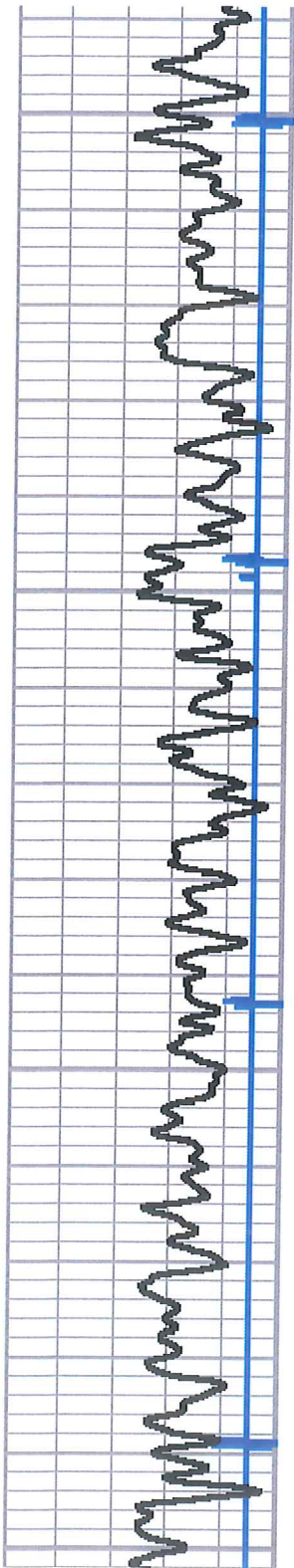


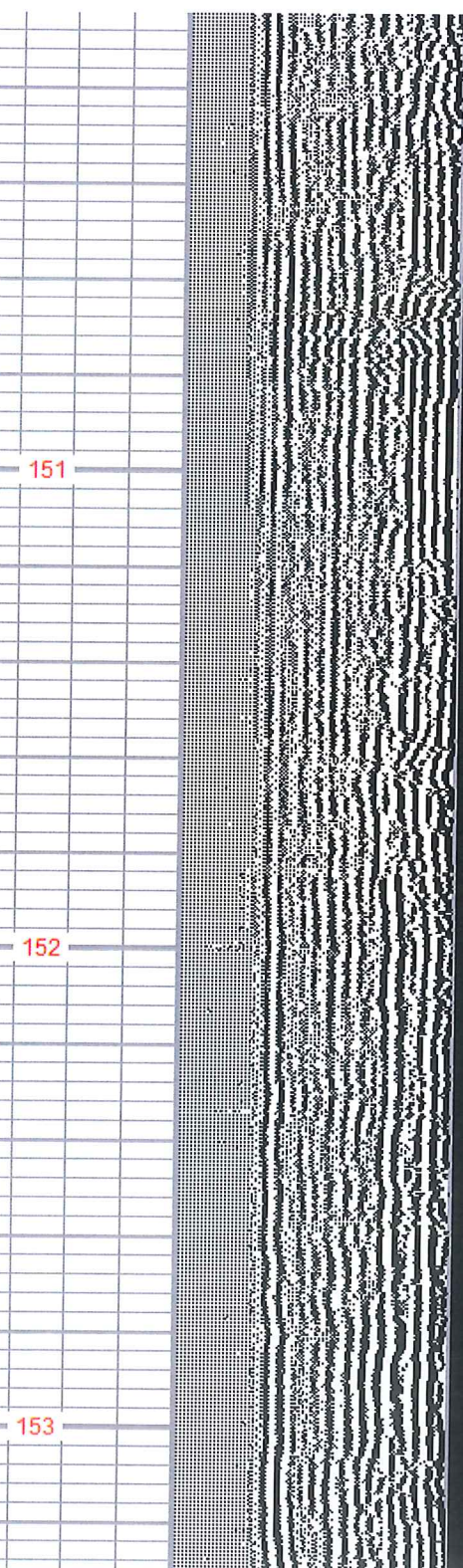
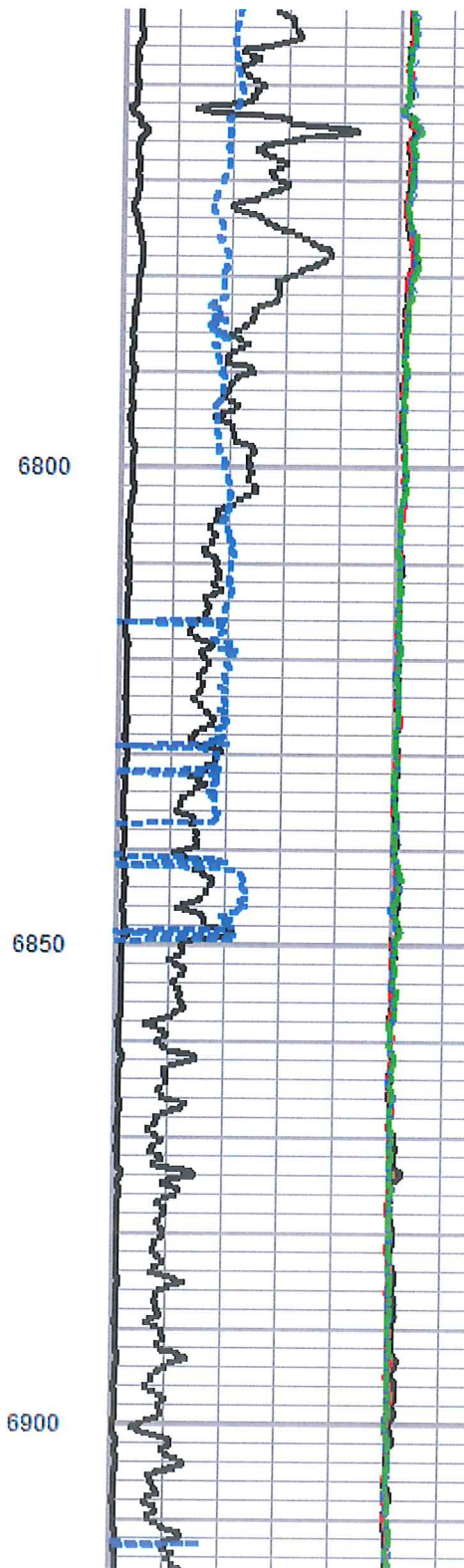
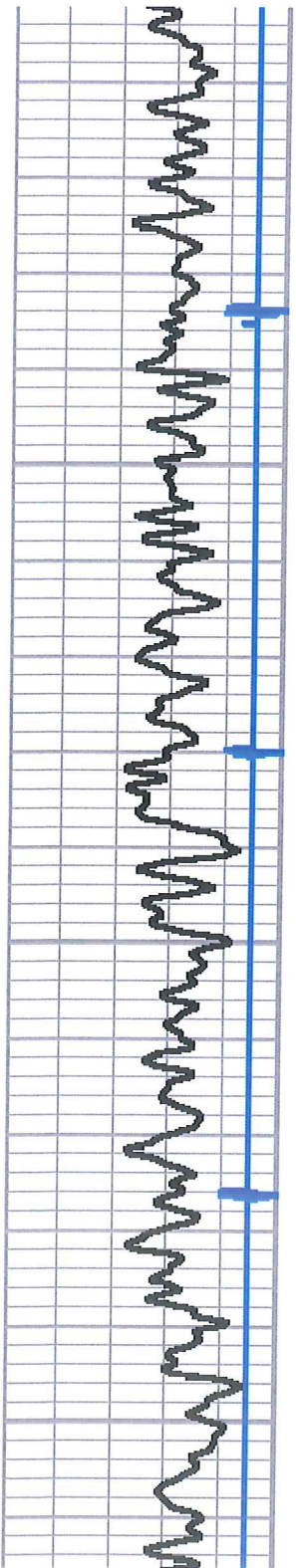
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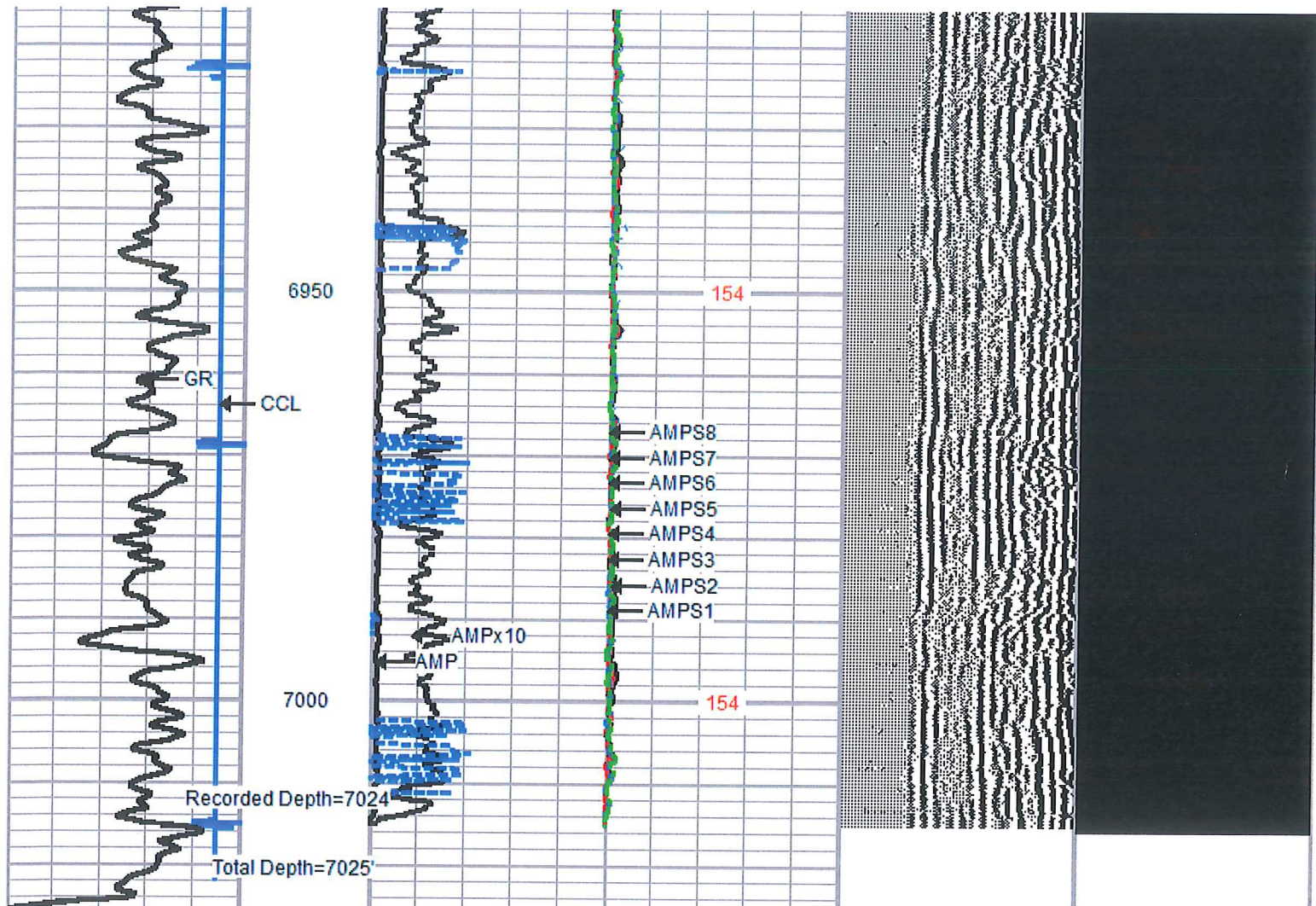
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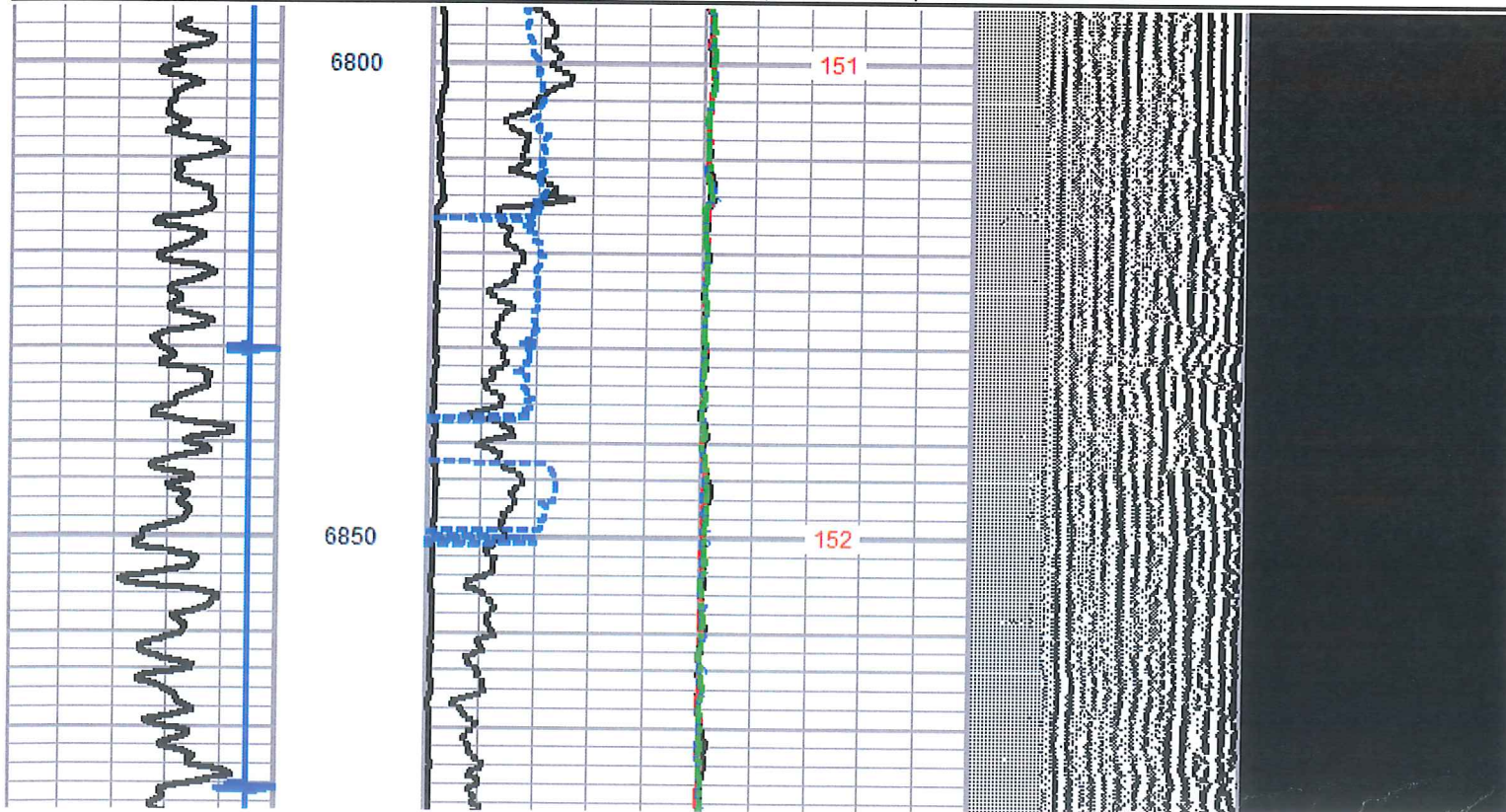


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0	GR (GAPI)	200	0	AMPx10 (mV)	10	0	AMPS2	150				3		95
200	GR (GAPI)	400	350	TT (usec)	250	0	AMPS3	150						
						0	AMPS4	150						
						0	AMPS5	150						
						0	AMPS6	150						
						0	AMPS7	150						
						0	AMPS8	150						
							TEMP							
							(degF)							

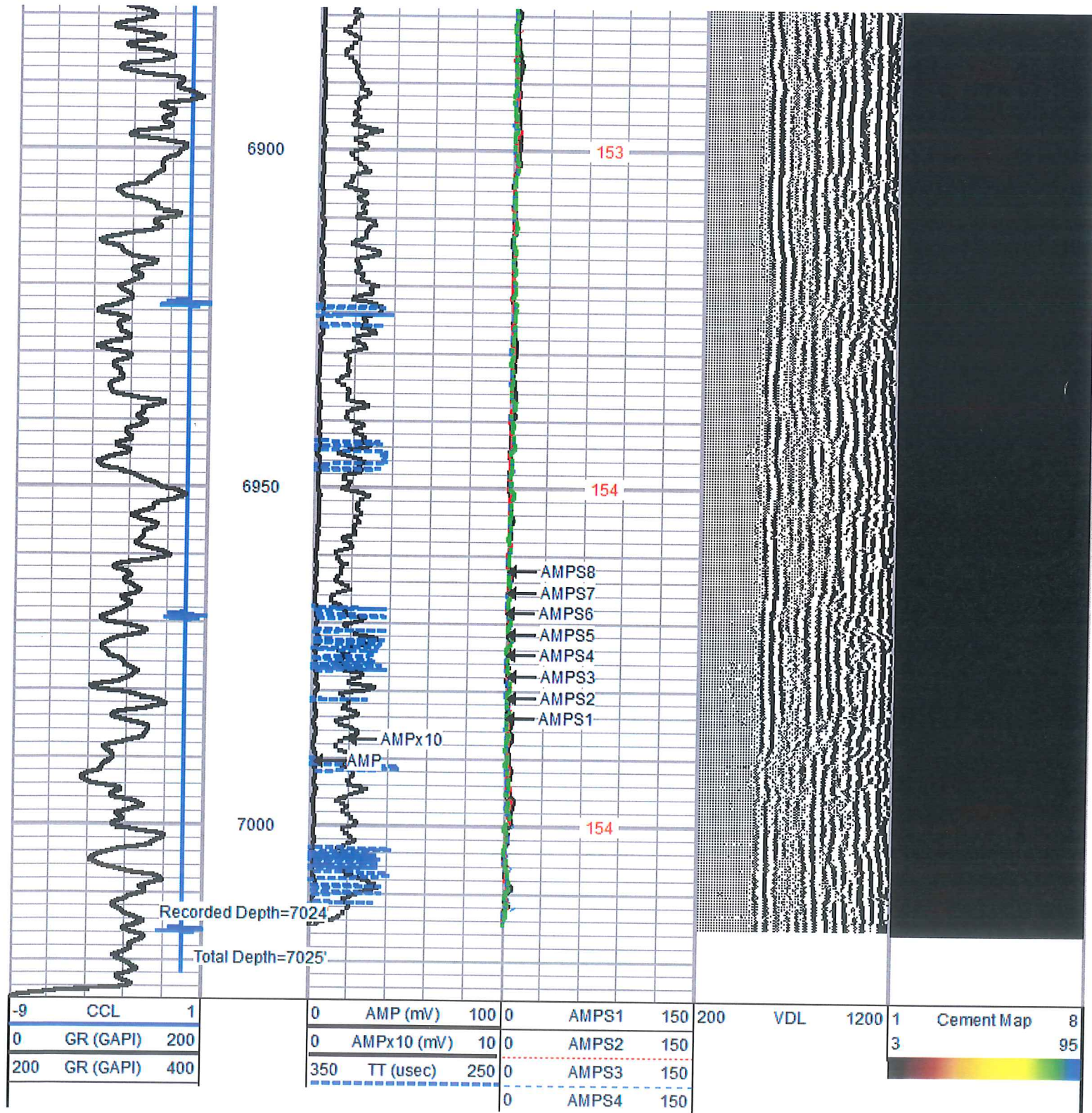
# REPEAT SECTION

Database File: white 1h.db  
 Dataset Pathname: pass4  
 Presentation Format: scbl02  
 Dataset Creation: Fri Sep 19 18:24:53 2014 by Log 7.0 B1  
 Charted by: Depth in Feet scaled 1:240

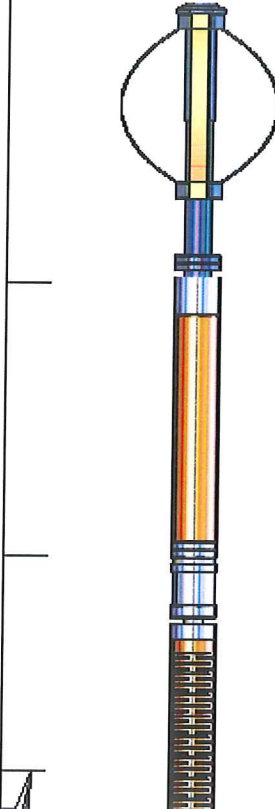
-9	CCL	1	0	AMP (mV)	100	0	AMPS1	150	200	VDL	1200	1	Cement Map	8
0	GR (GAPI)	200	0	AMPx10 (mV)	10	0	AMPS2	150				3		95
200	GR (GAPI)	400	350	TT (usec)	250	0	AMPS3	150						
						0	AMPS4	150						
						0	AMPS5	150						
						0	AMPS6	150						
						0	AMPS7	150						
						0	AMPS8	150						
							TEMP							
							(degF)							







0	AMPS5	150
0	AMPS6	150
0	AMPS7	150
0	AMPS8	150
TEMP		
(degF)		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)	
HeadVolt	16.76		PTS275	2.88	2.75	24.00	
Temp	13.91						
WVF3FT WVFS1	11.68 11.68			RBT-Probe275T (FW1404-41_5.5INCH) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	100.00

