



**RADIAL BOND GAMMA RAY-CCL
TEMP**

Company ANTERO RESOURCES
Well HAYDEN 2H
Field WEST UNION
County DODDRIDGE
State WV. Country USA.

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Well HAYDEN 2H
Field WEST UNION
County DODDRIDGE
State WV. Country USA.

Location: API # : 47017064650000

Other Services

SEC	TWP	RGE	Elevation
Permanent Datum	G.L.	Elevation	1040'
Log Measured From	K.B.24'	D.F.	1063'
Drilling Measured From	K.B.24'	G.L.	1040'

Date	9-27-14				
Run Number	ONE				
Depth Driller					
Depth Logger	6990'				
Bottom Logged Interval	6989'				
Top Log Interval	SURFACE				
Open Hole Size					
Type Fluid	WATER				
Density / Viscosity					
Max. Recorded Temp.	134				
Estimated Cement Top	3749'				
Time Well Ready	15:10				
Time Logger on Bottom	16:00				
Equipment Number	5982				
Location	CLARKSBURG WV.				
Recorded By	E.BUTCHER				
Witnessed By	DANIEL MARTINEZ				
Borehole Record		Tubing Record			
Run Number	Bit	From	To	Size	Weight
					From
					To
Casina Record	Size	Wgt/Ft	Top	Bottom	
Surface String					
Prot. String					
Production String	5.5"	23LBS.	RECEIVED SURFACE GAS	15.798.4'	
Liner			Office of Oil & Gas		

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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 WIRELINE TECHNOLOGY
LOG MEASURED FROM K.B. 24'

Calibration Report

Database File: hayden 2h.db
Dataset Pathname: pass13
Dataset Creation: Sat Sep 27 04:10:45 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 Sep 27 03:51:07 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:

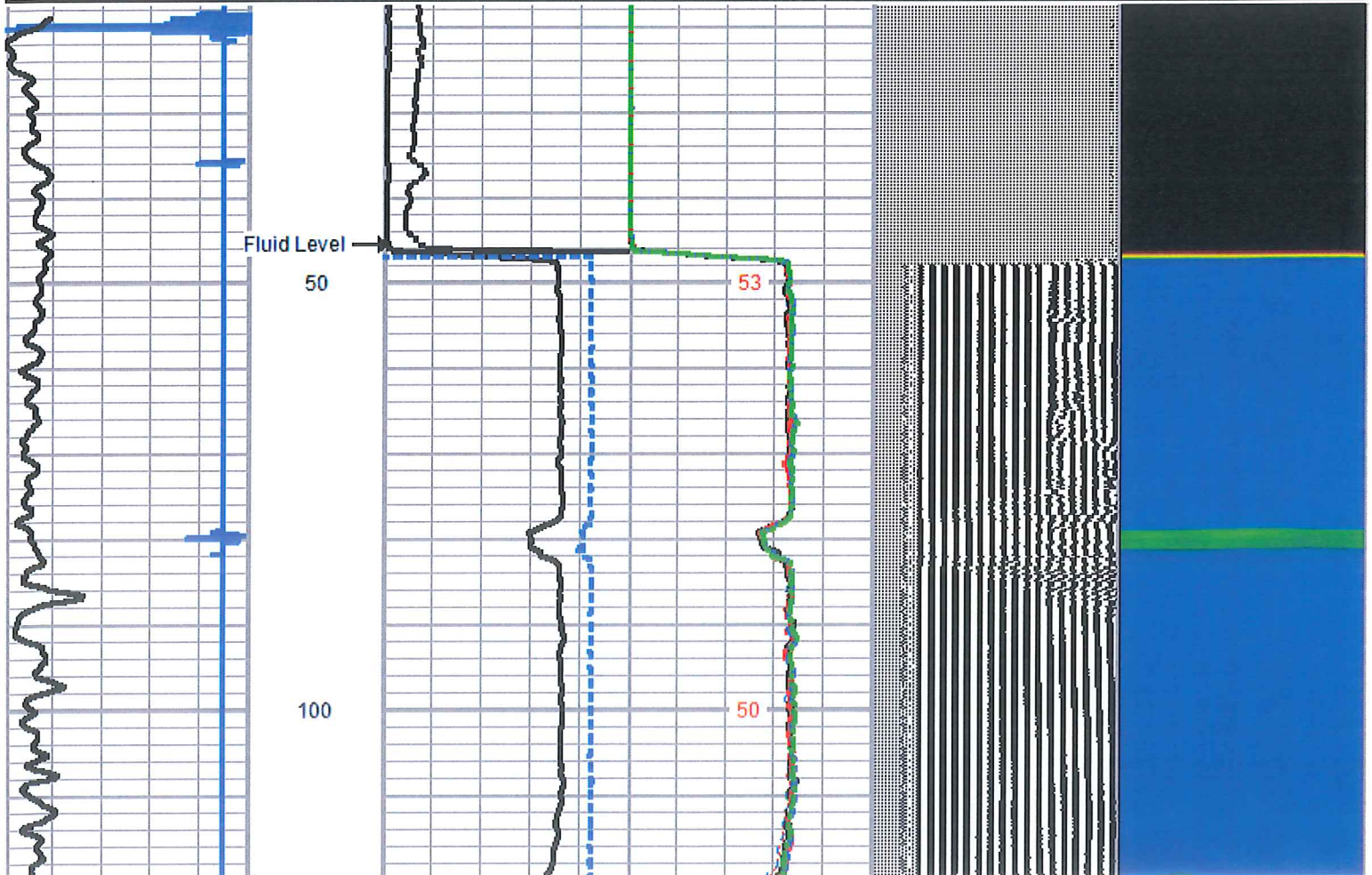
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
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S8	0.000		0.000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

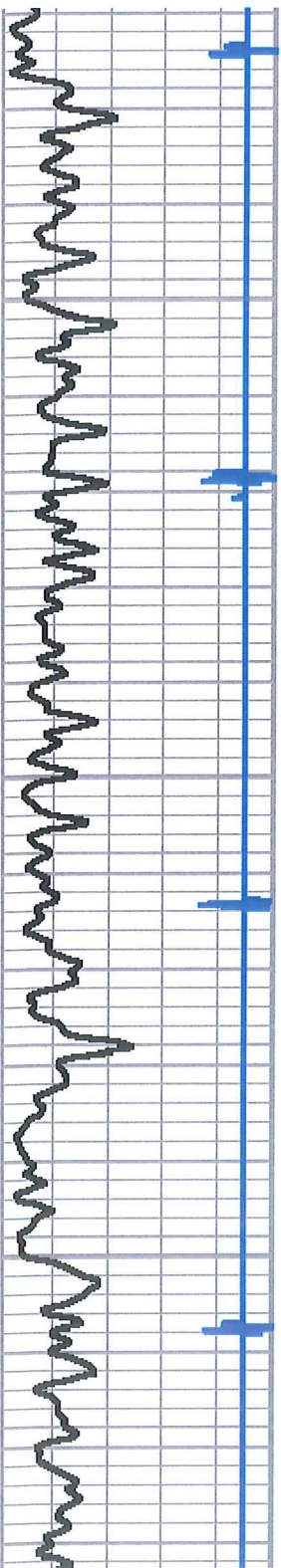


MAIN LOG

Database File: hayden 2h.db
 Dataset Pathname: pass13
 Presentation Format: scbl02
 Dataset Creation: Sat Sep 27 04:10:45 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)							

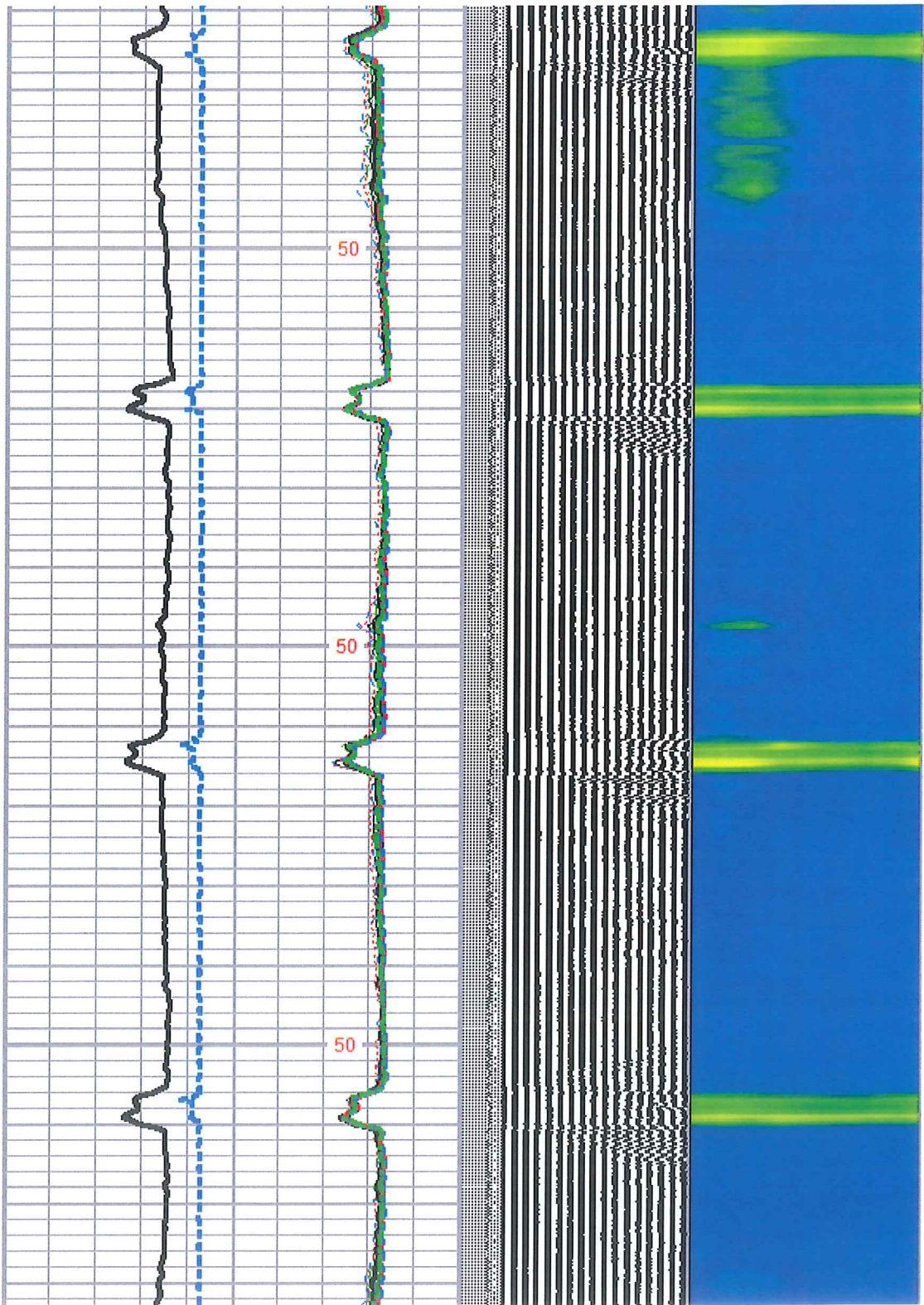




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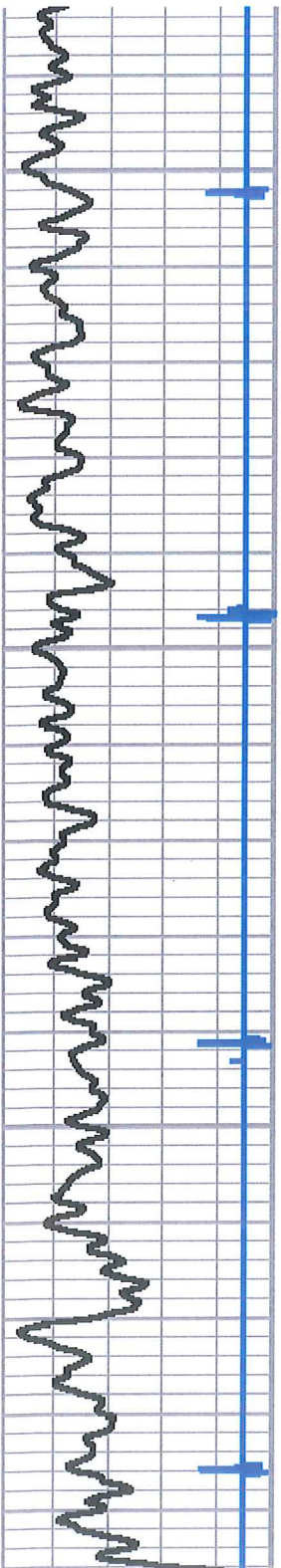
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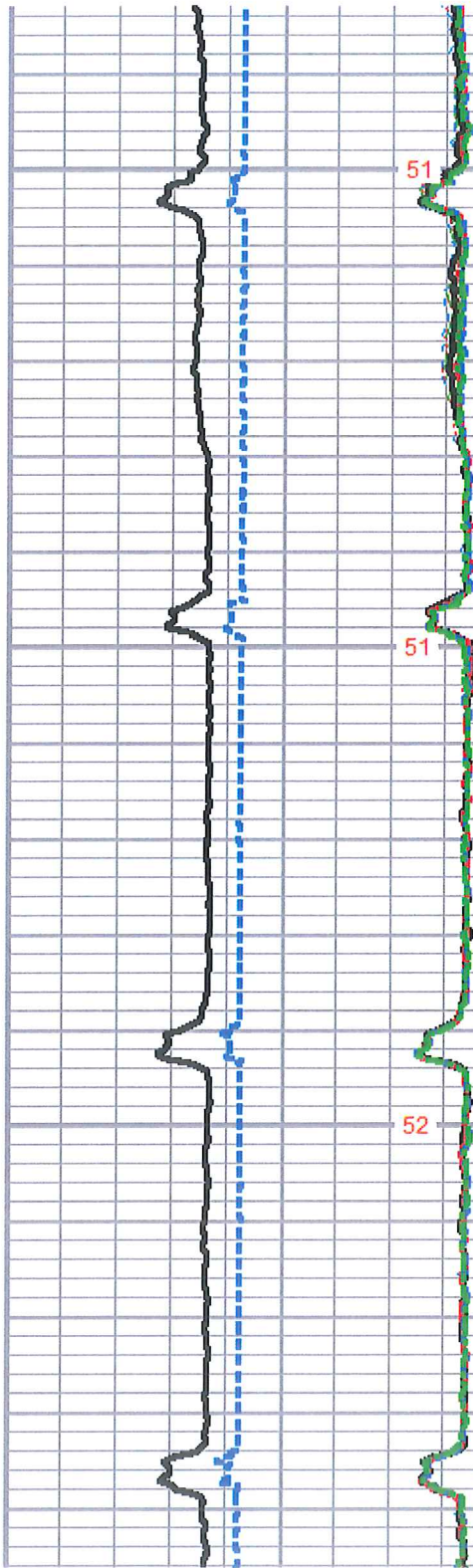
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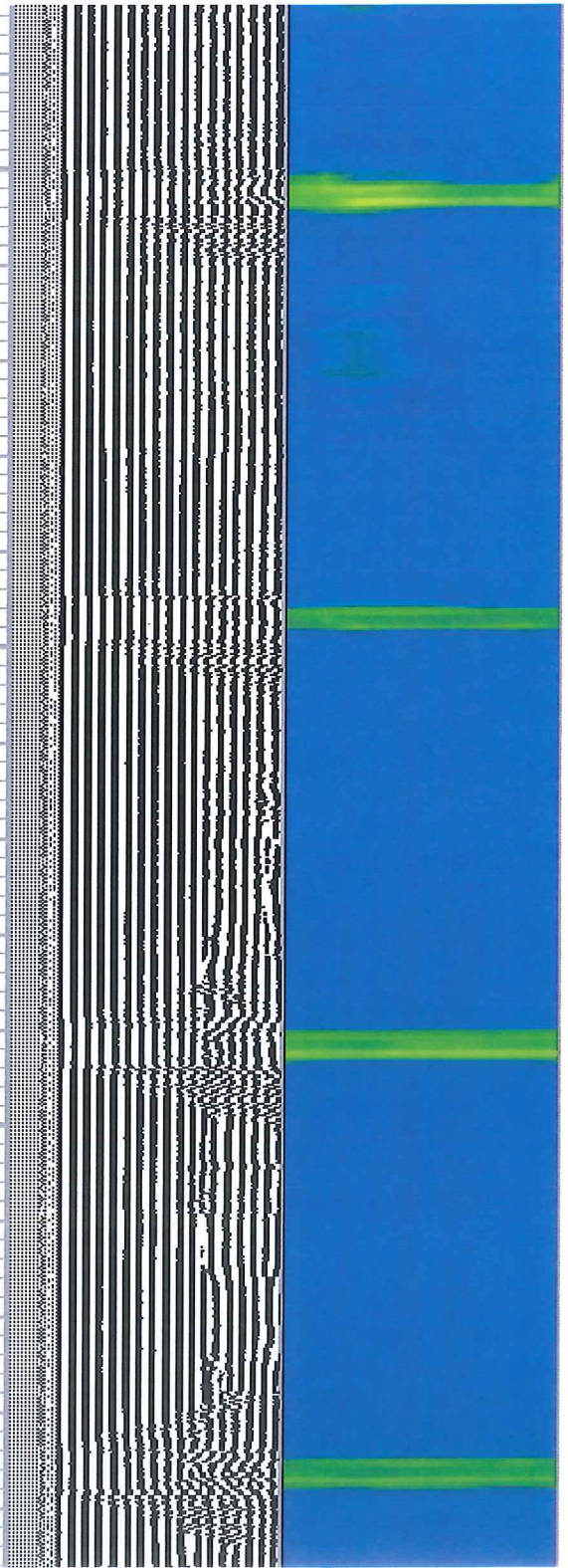
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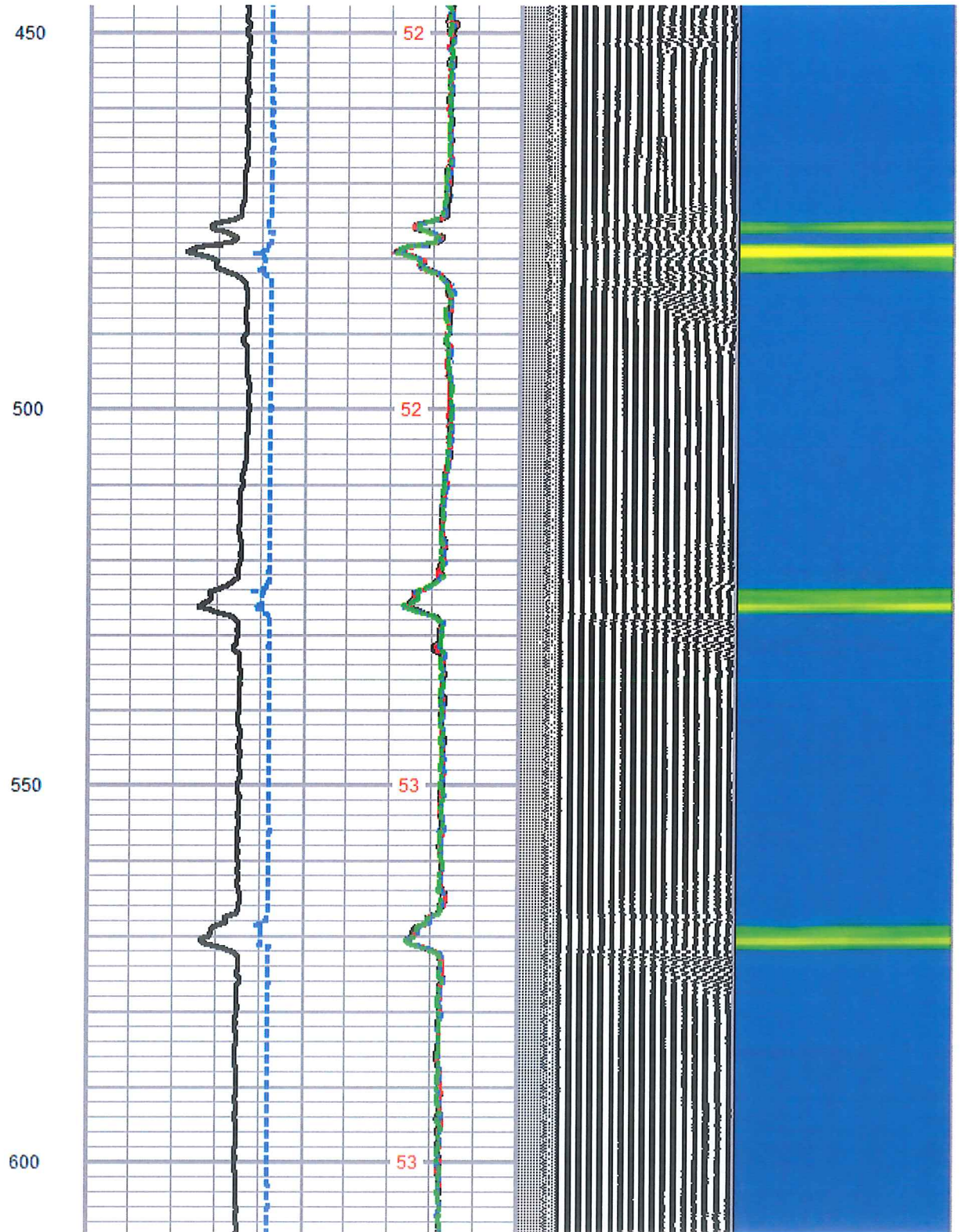
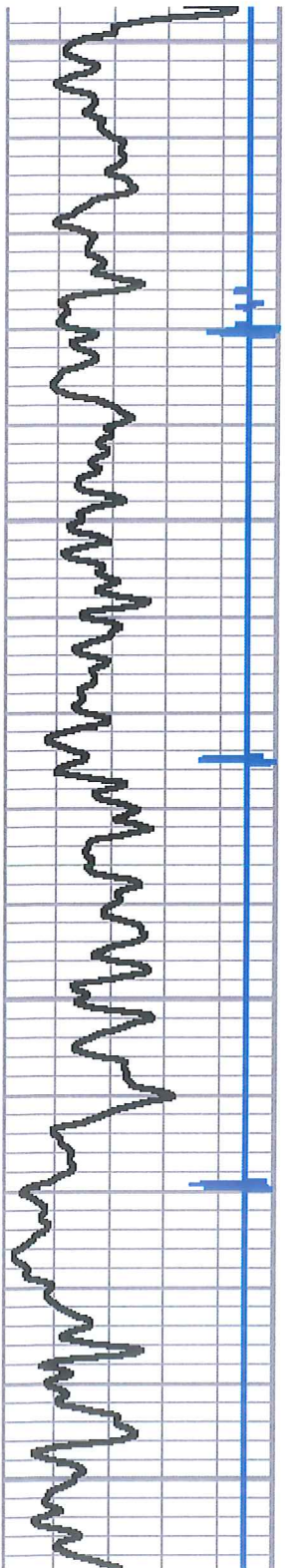


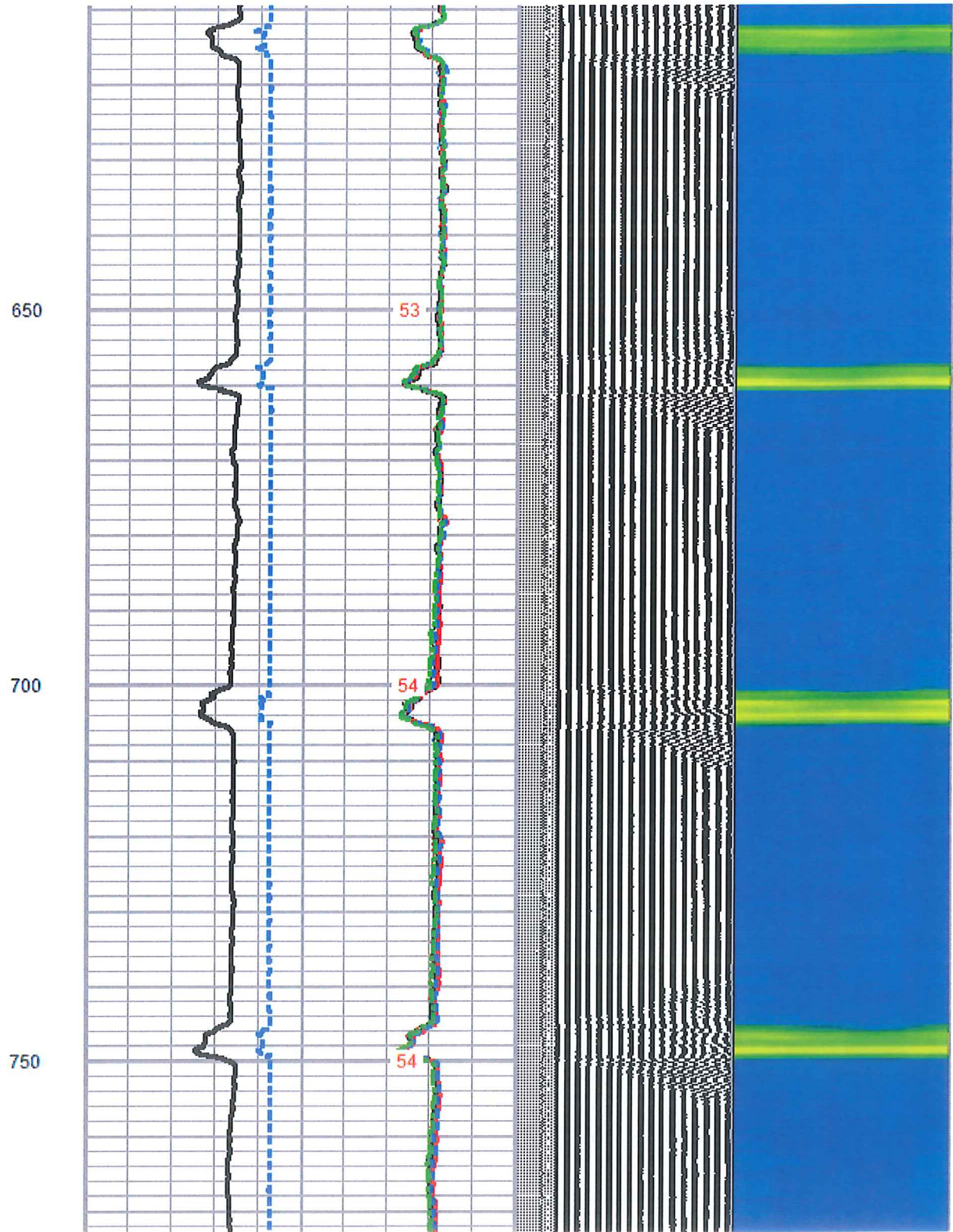
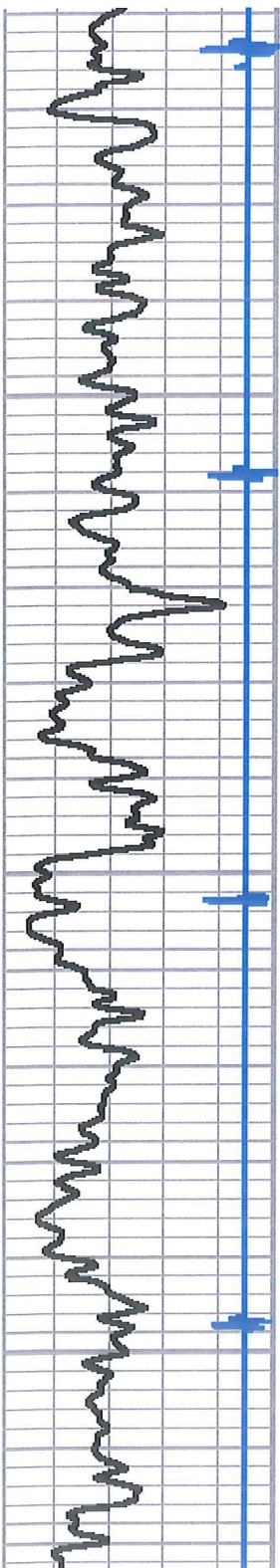
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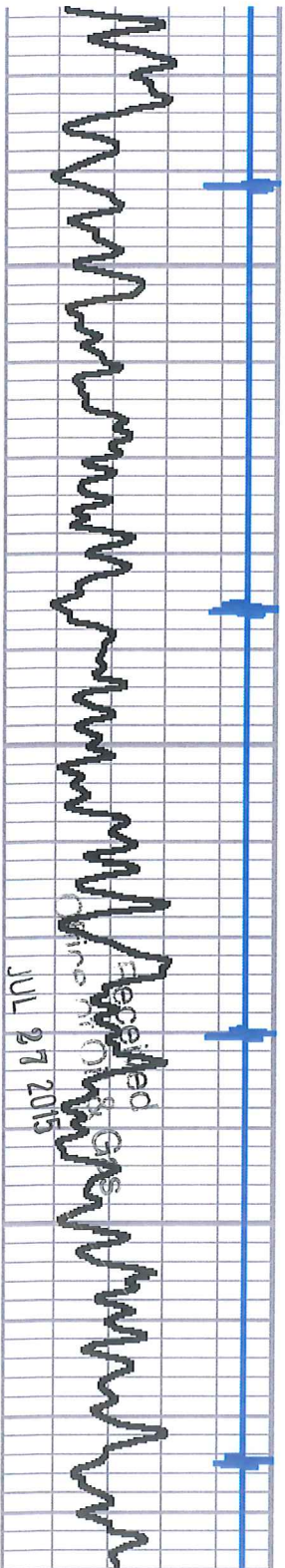
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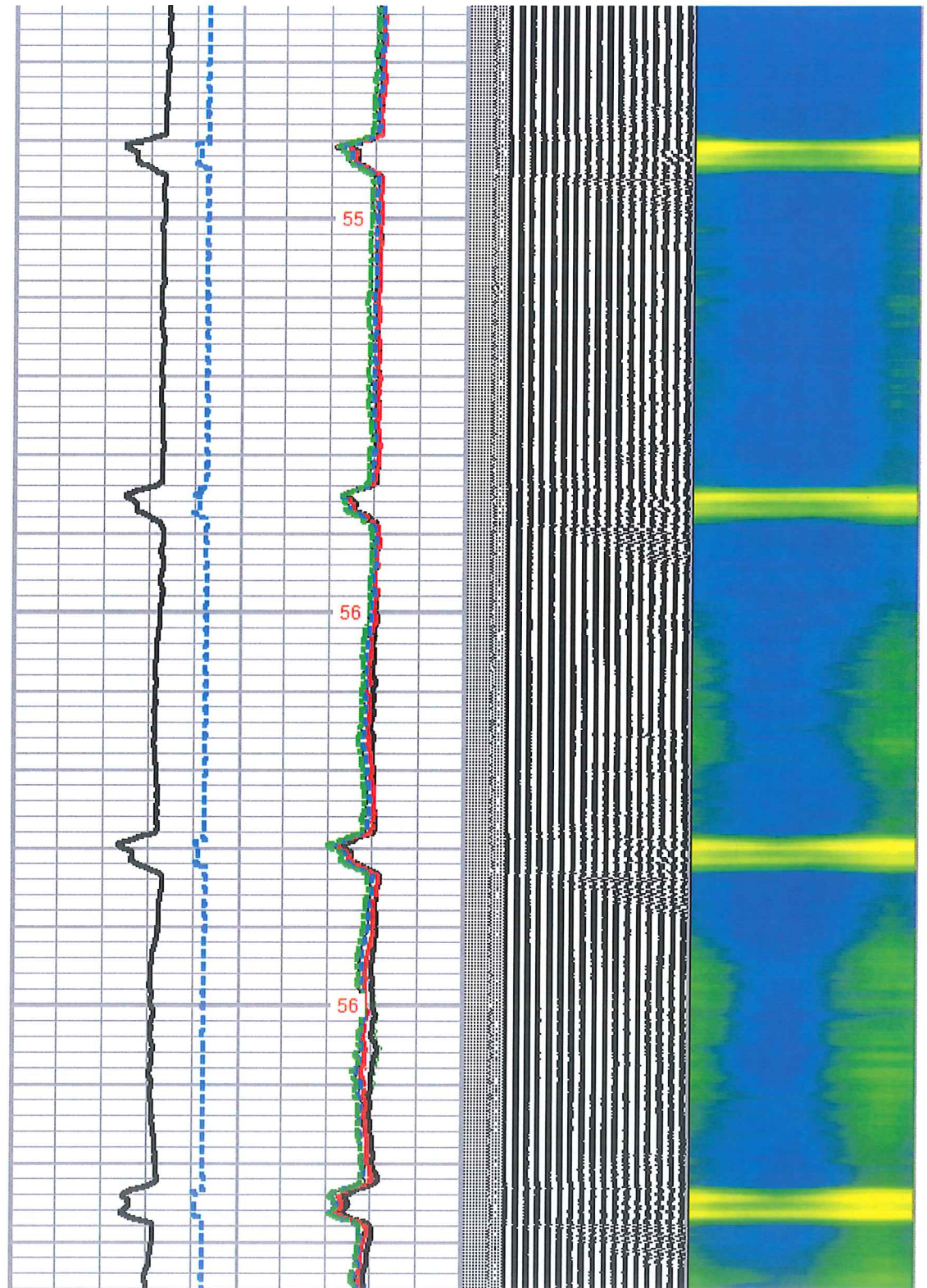




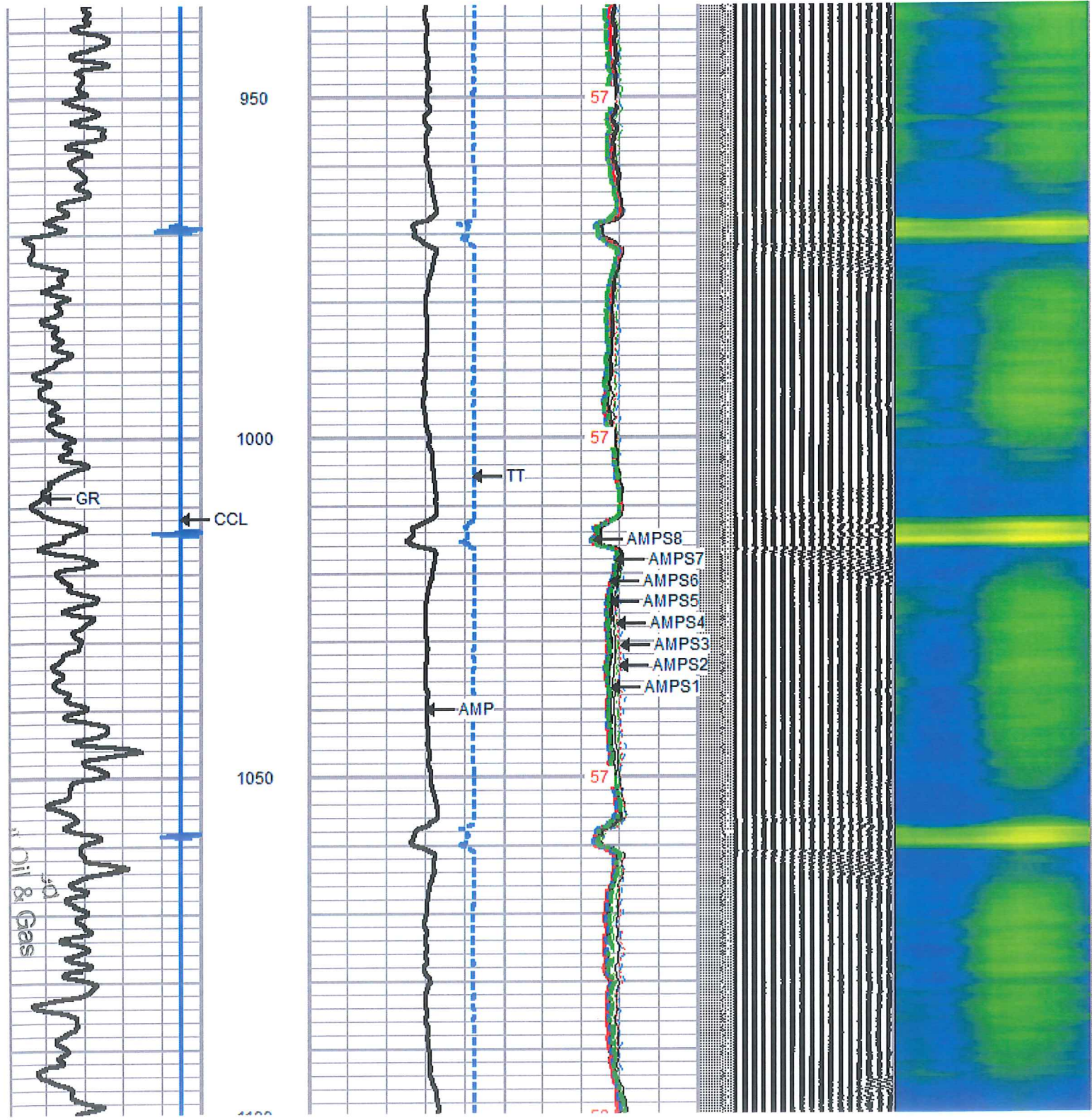
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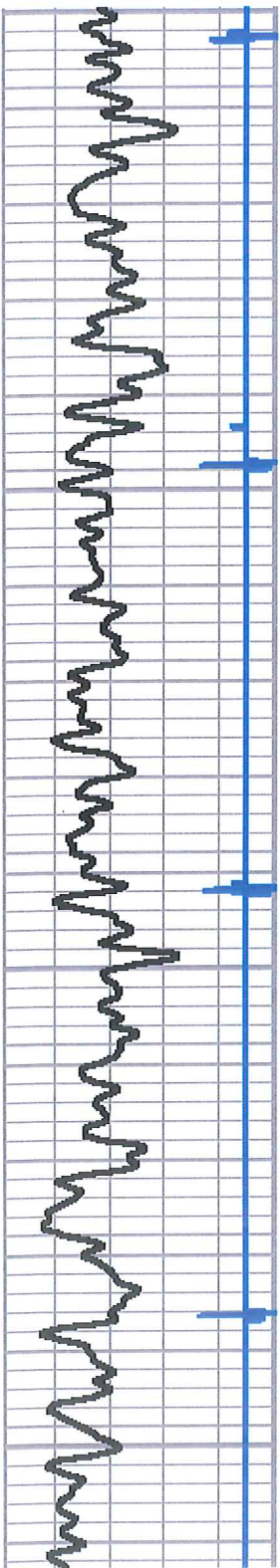
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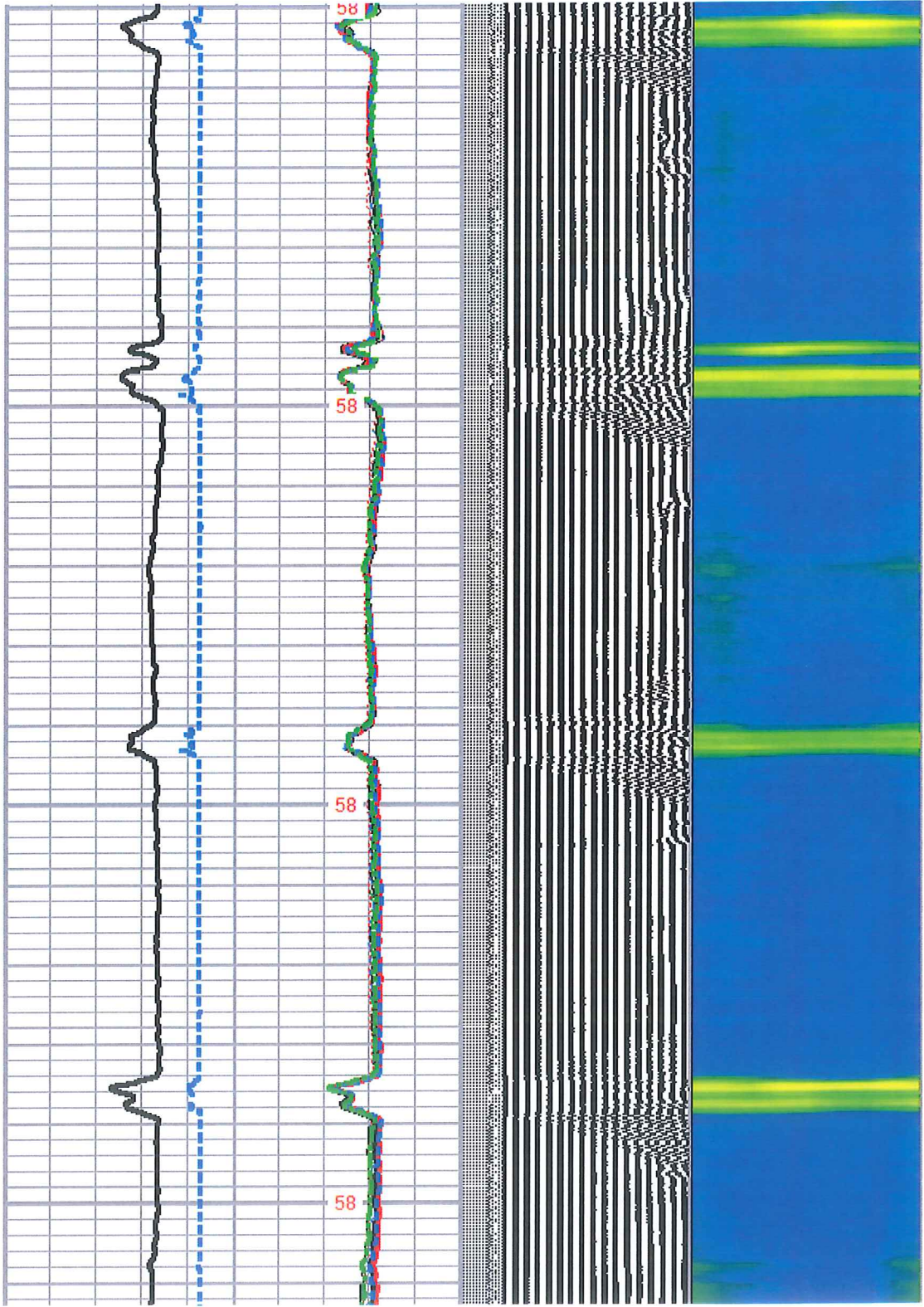


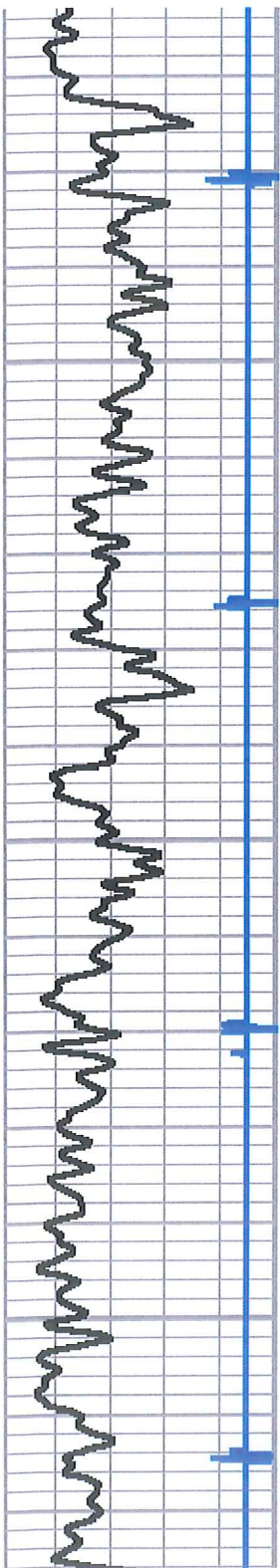
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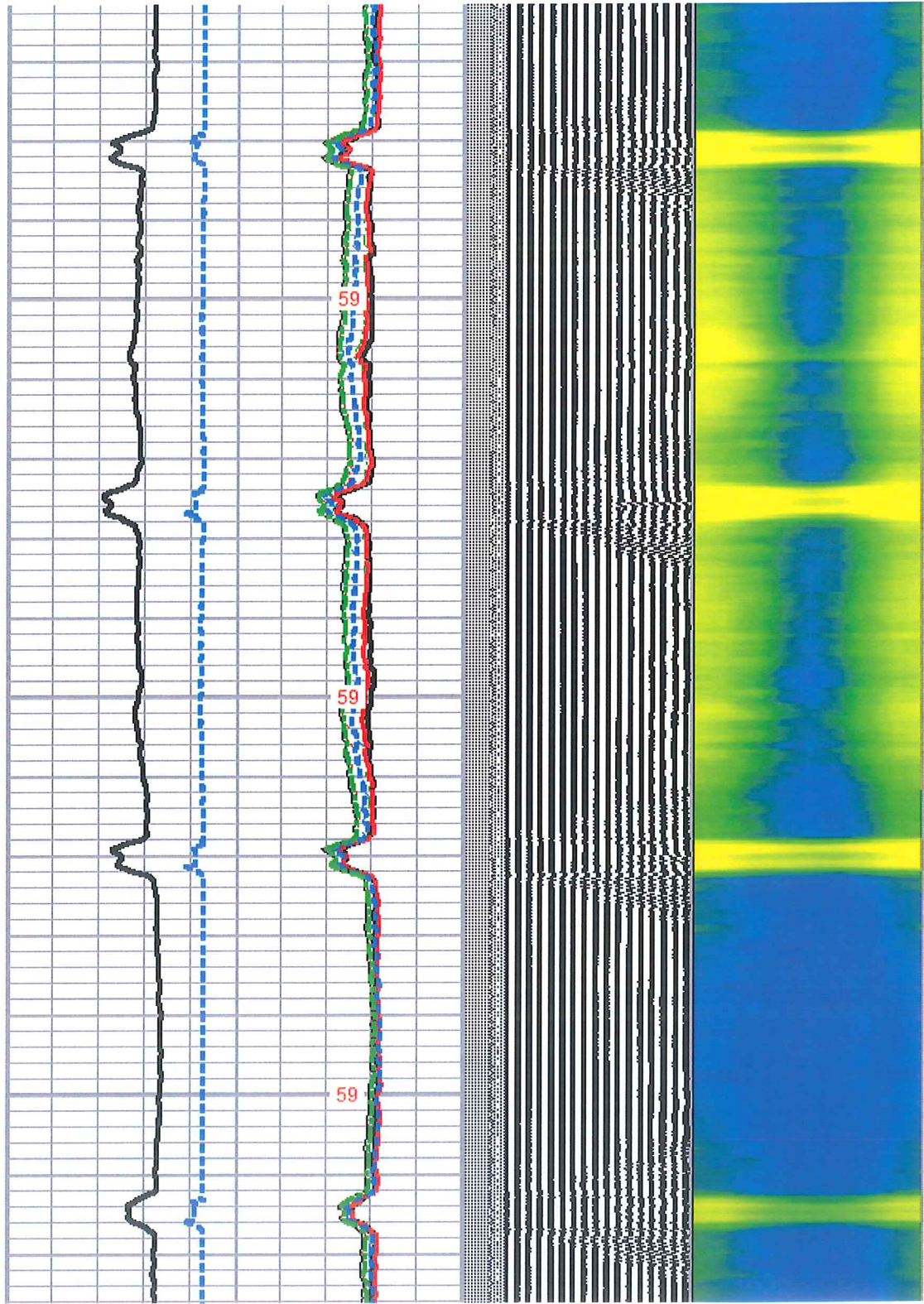




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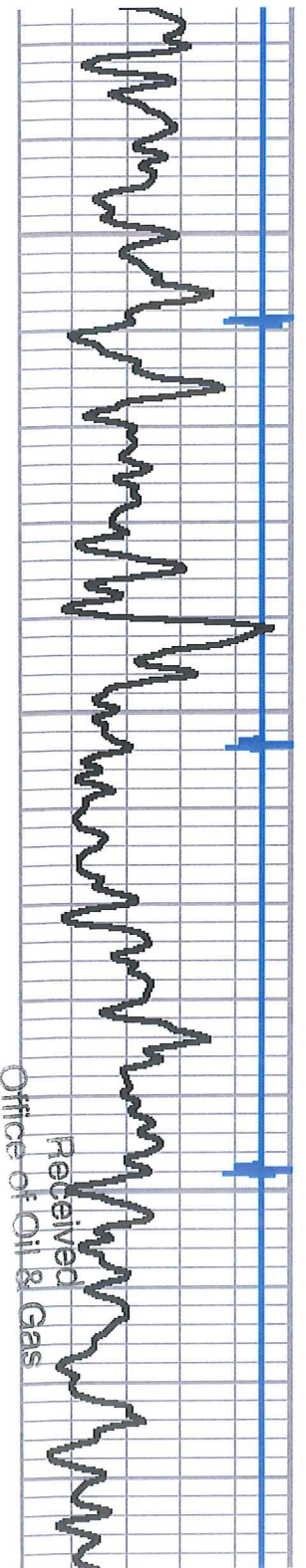
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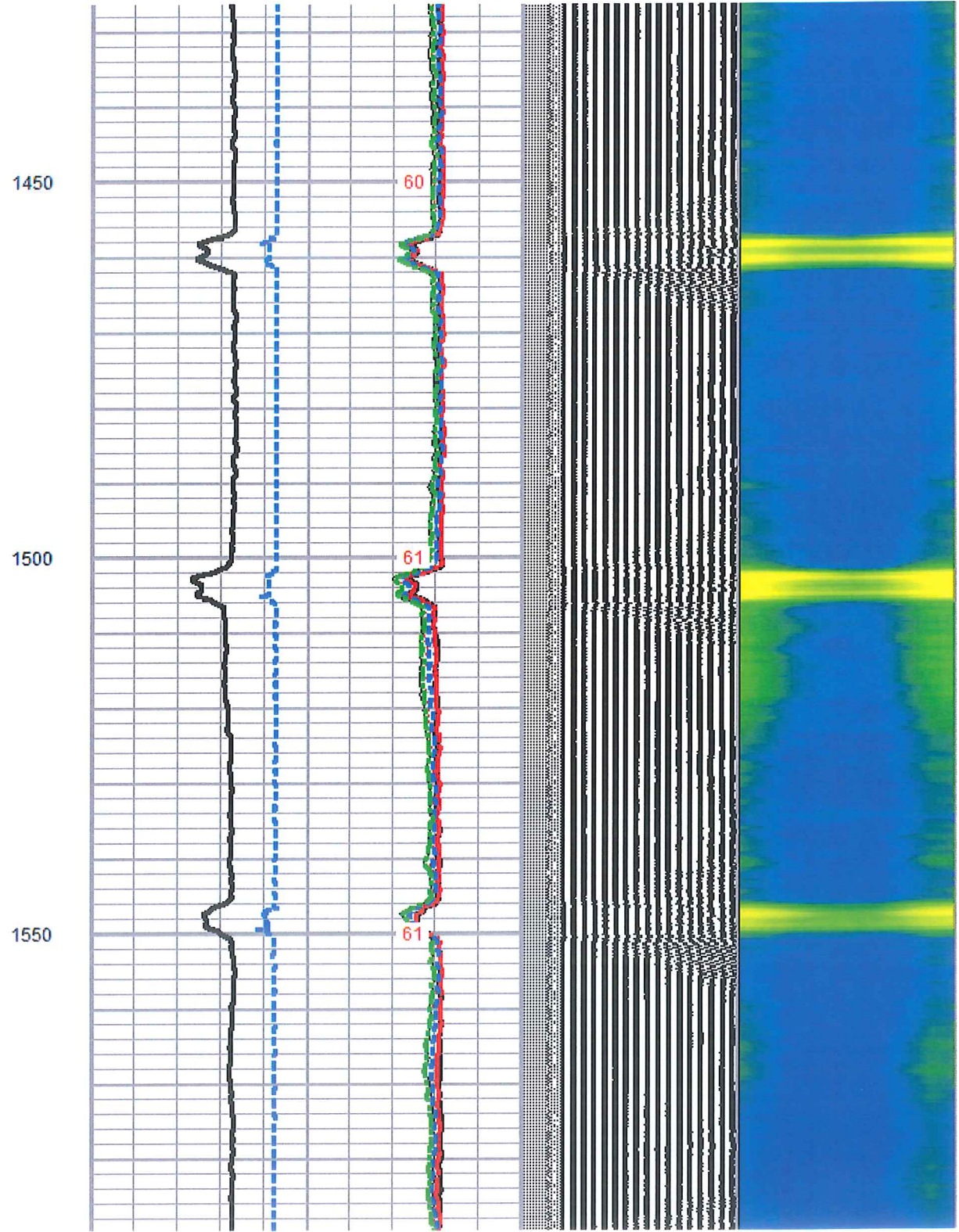
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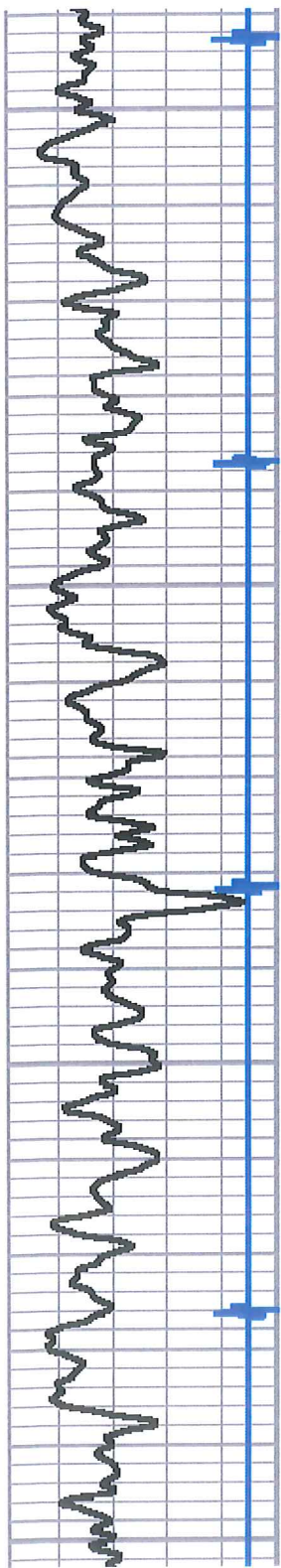
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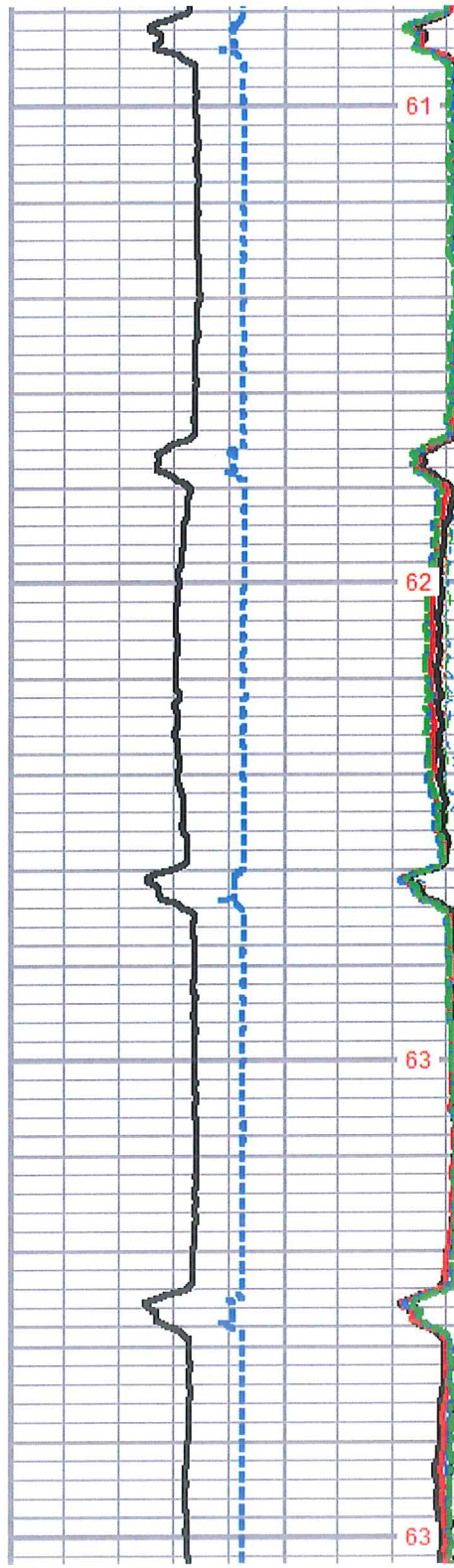


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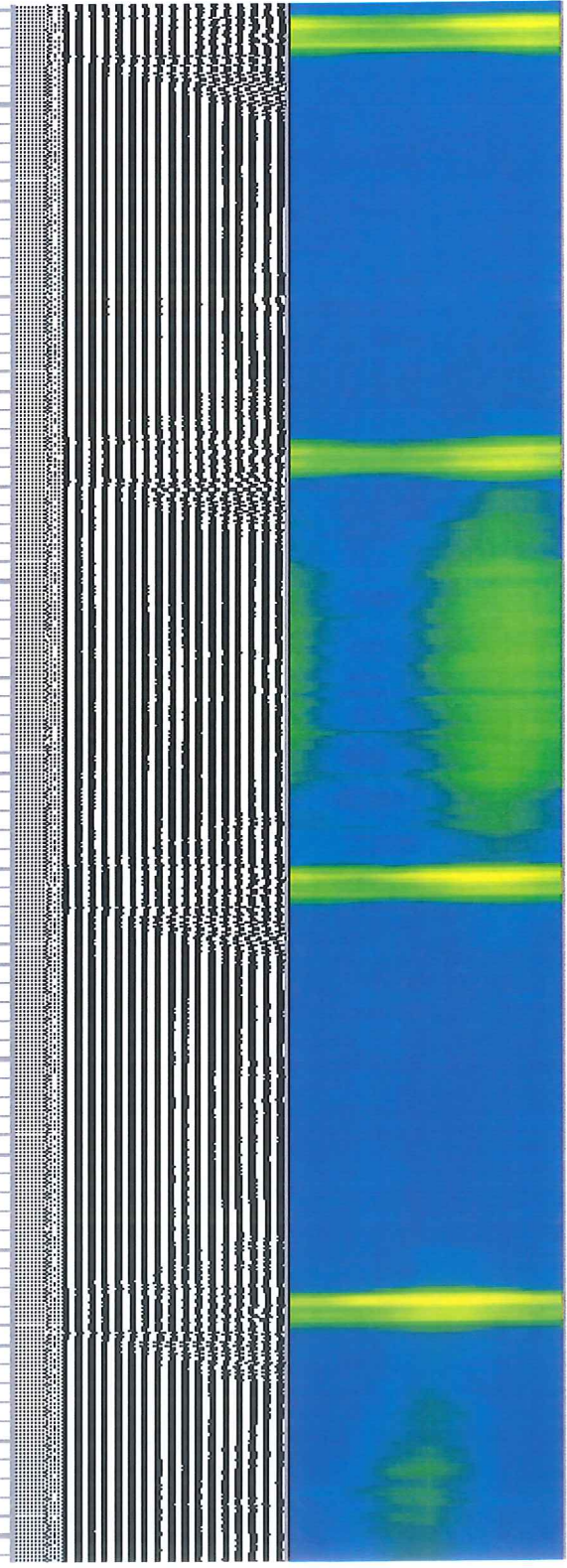


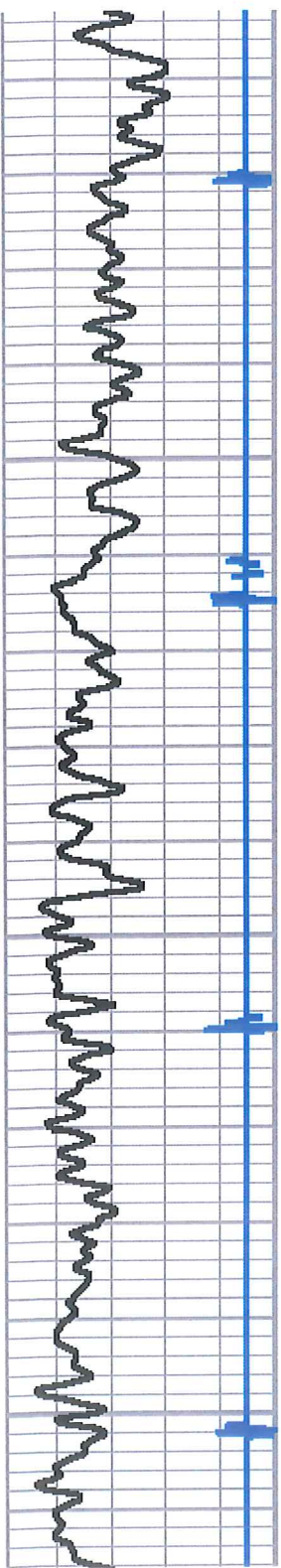
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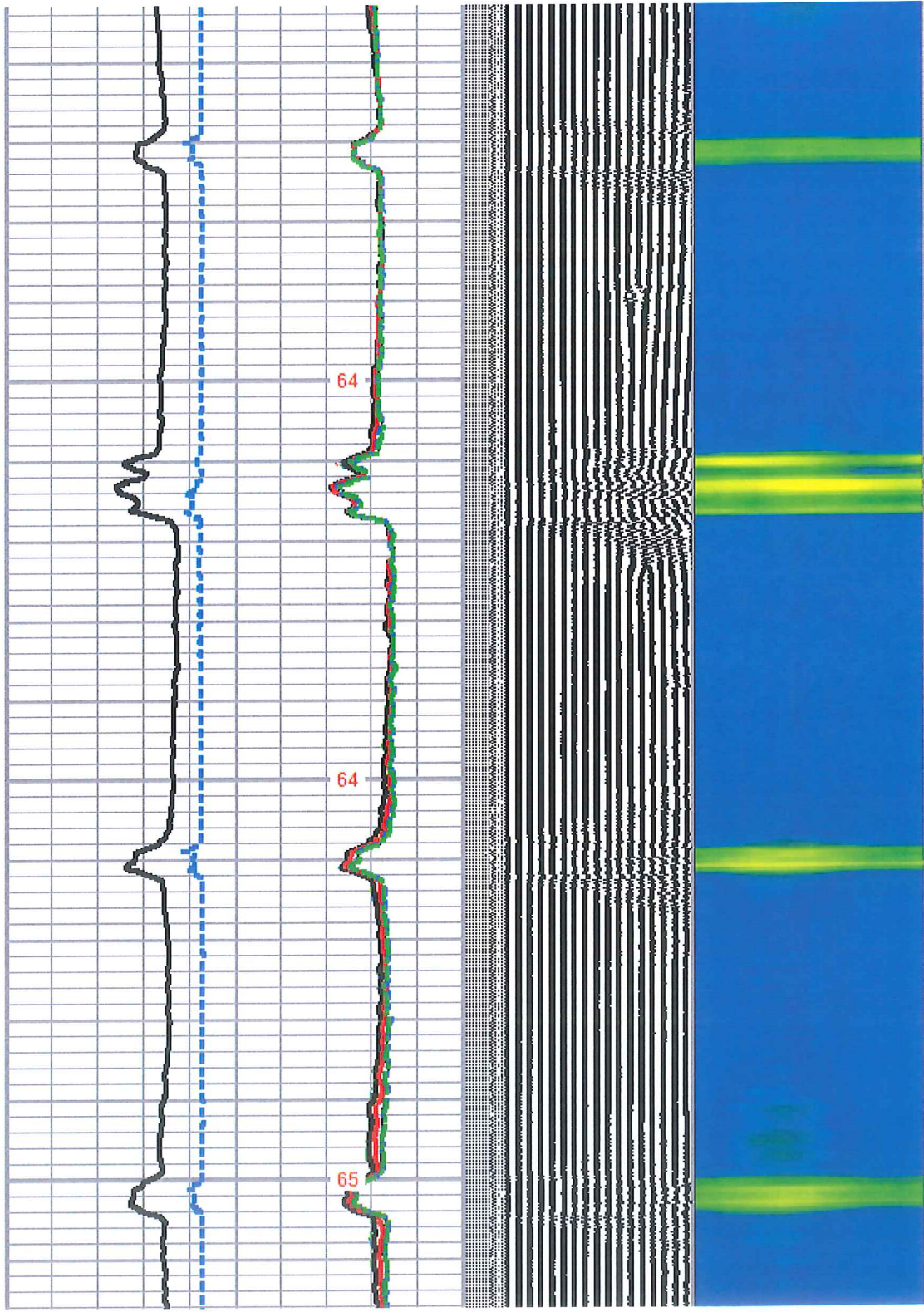




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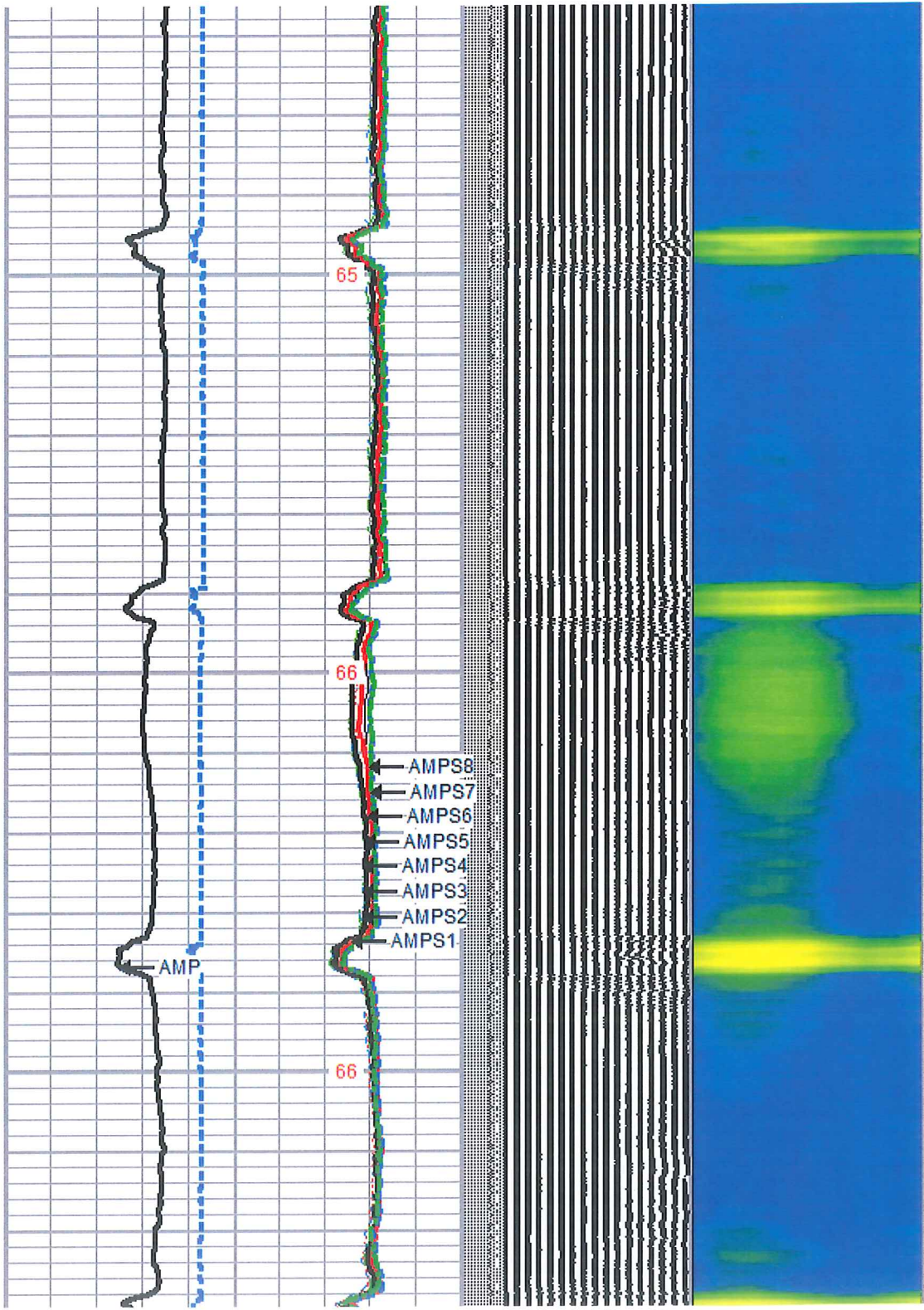
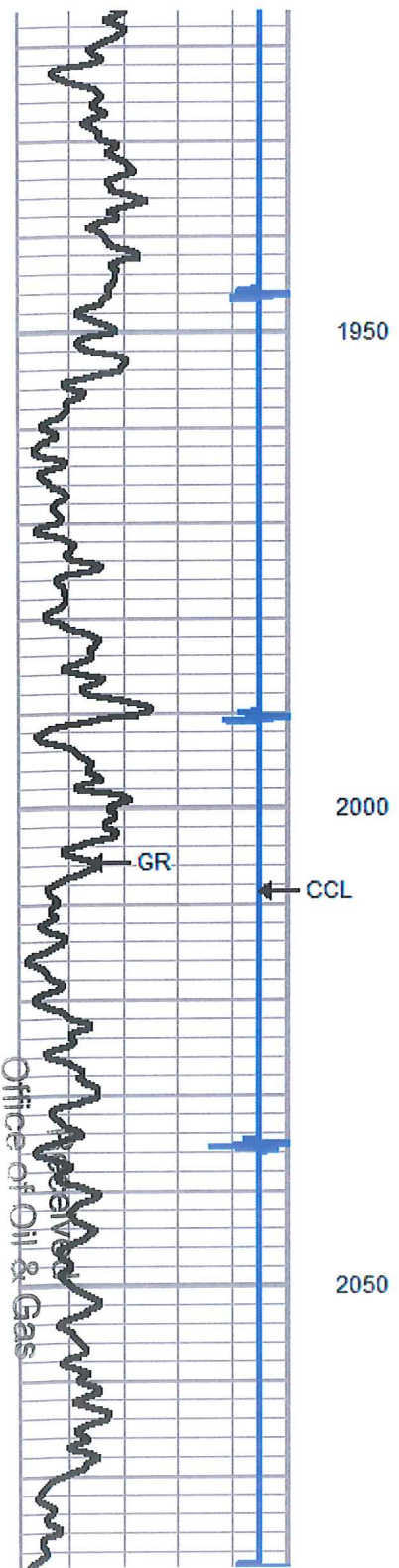
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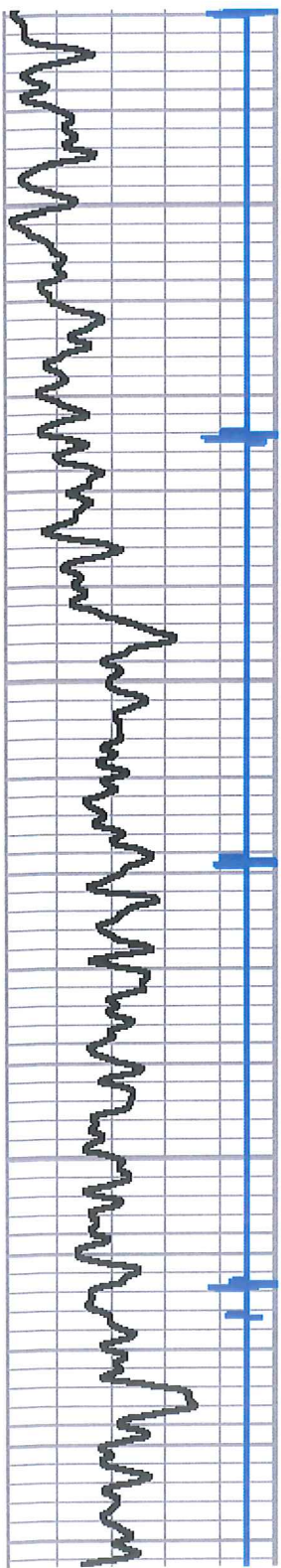
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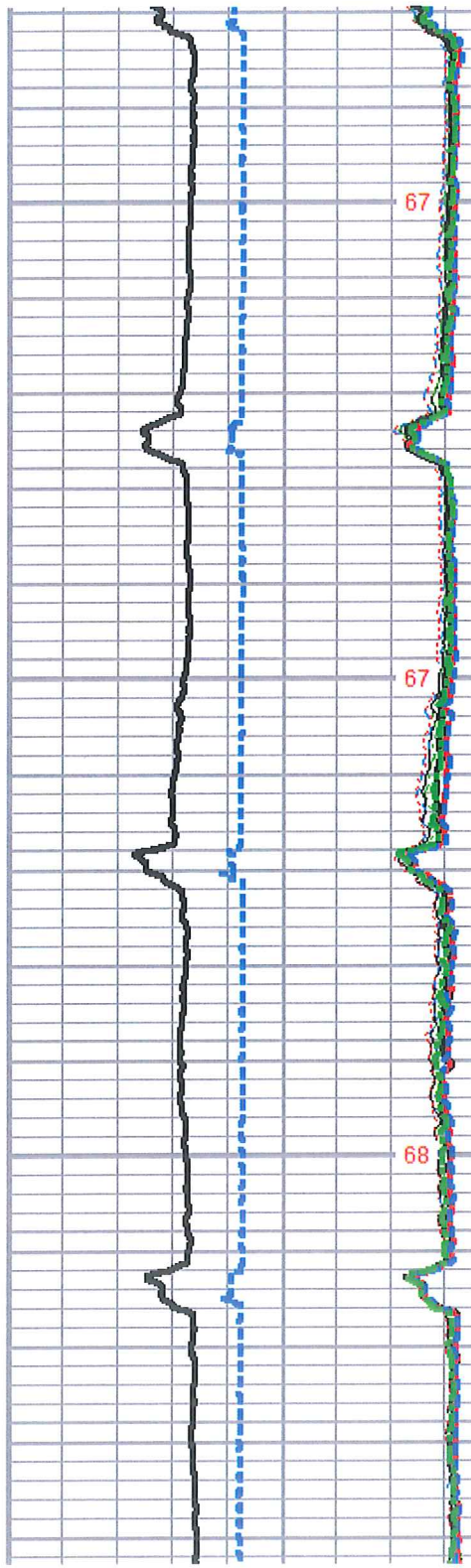




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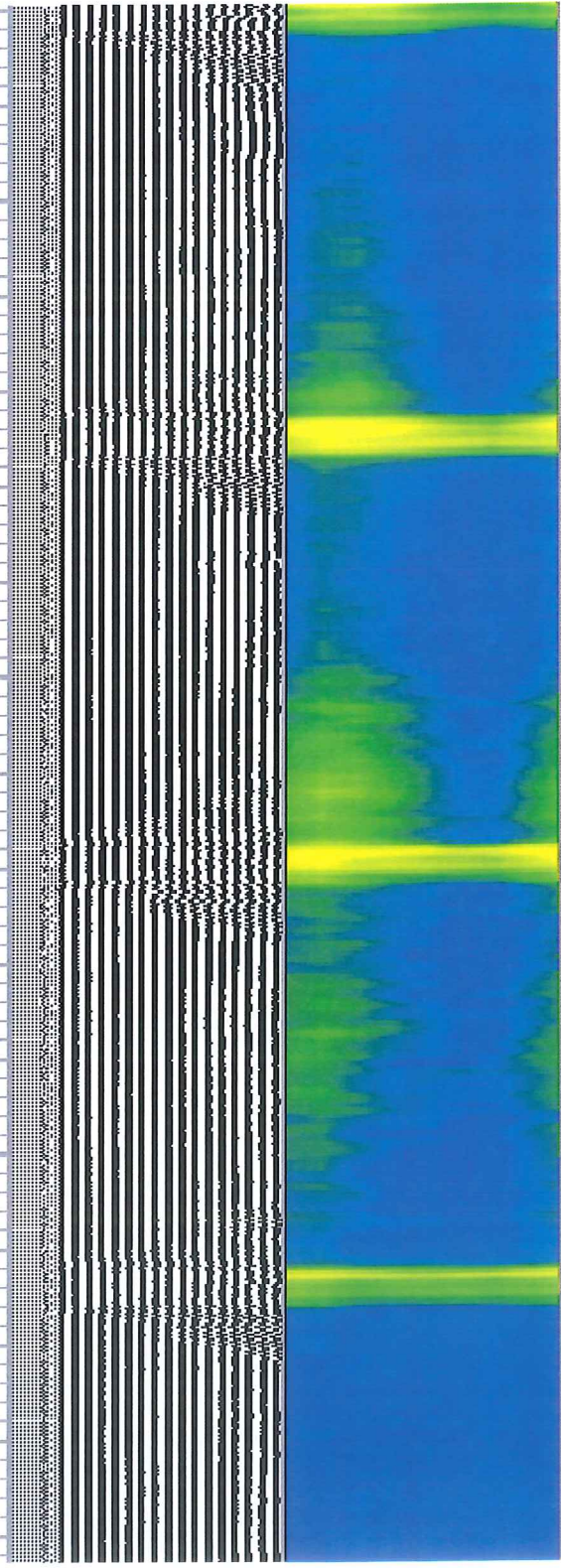
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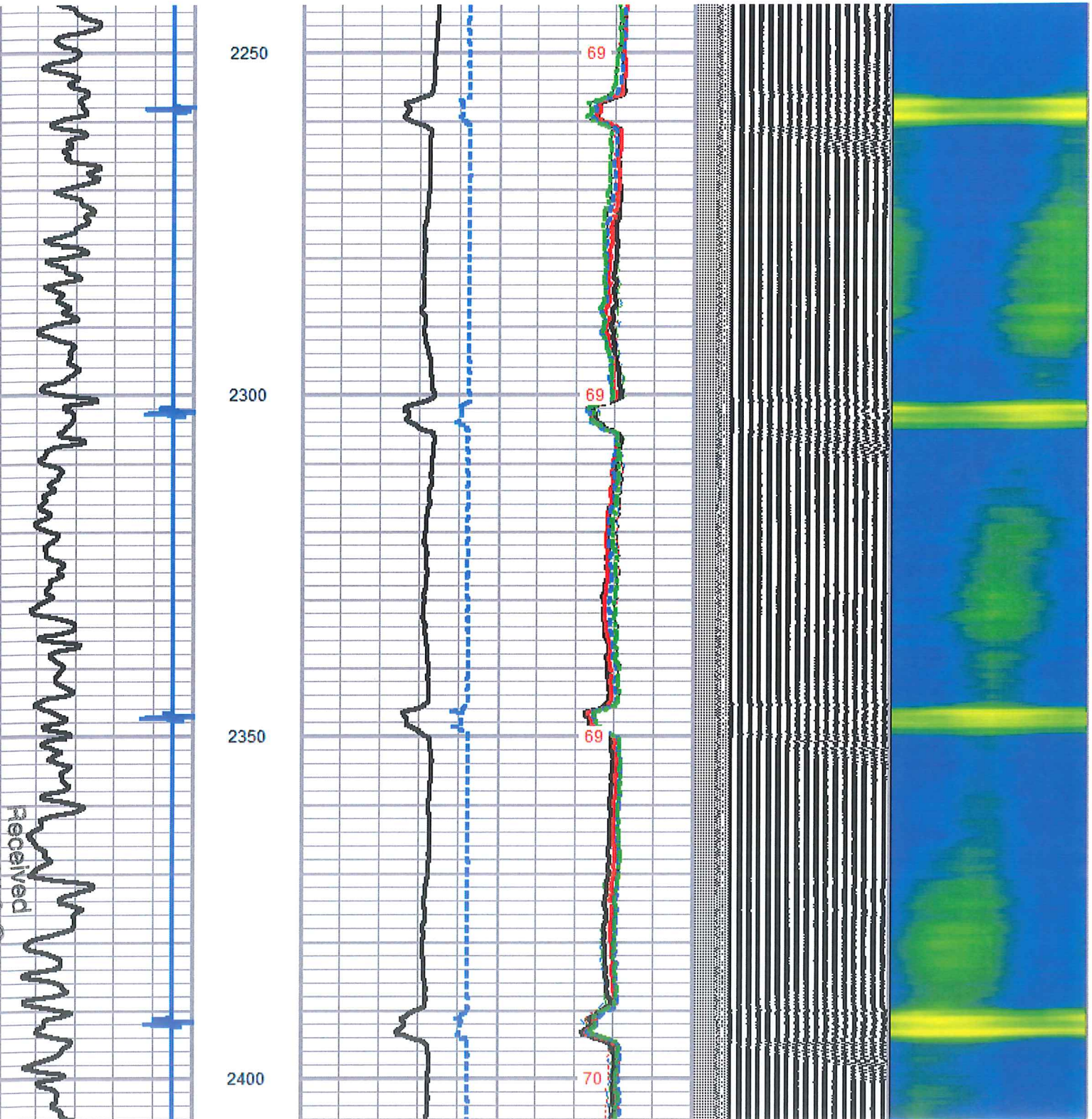


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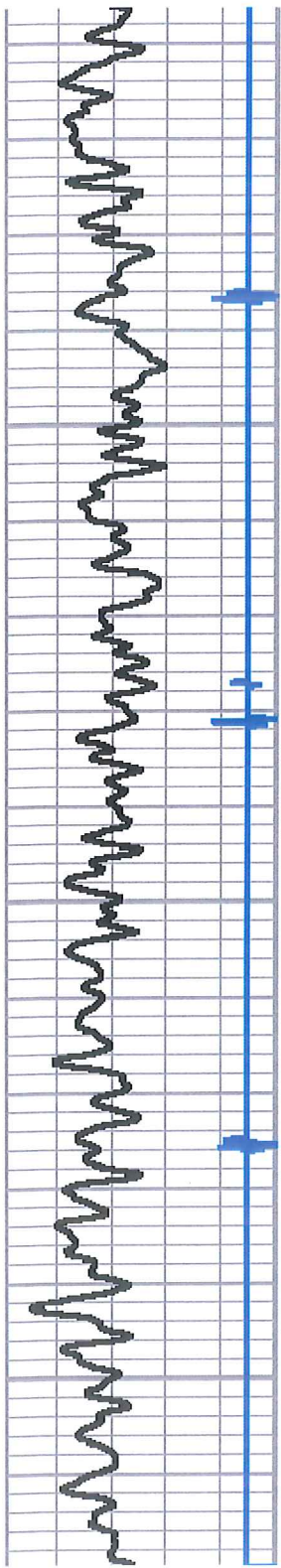




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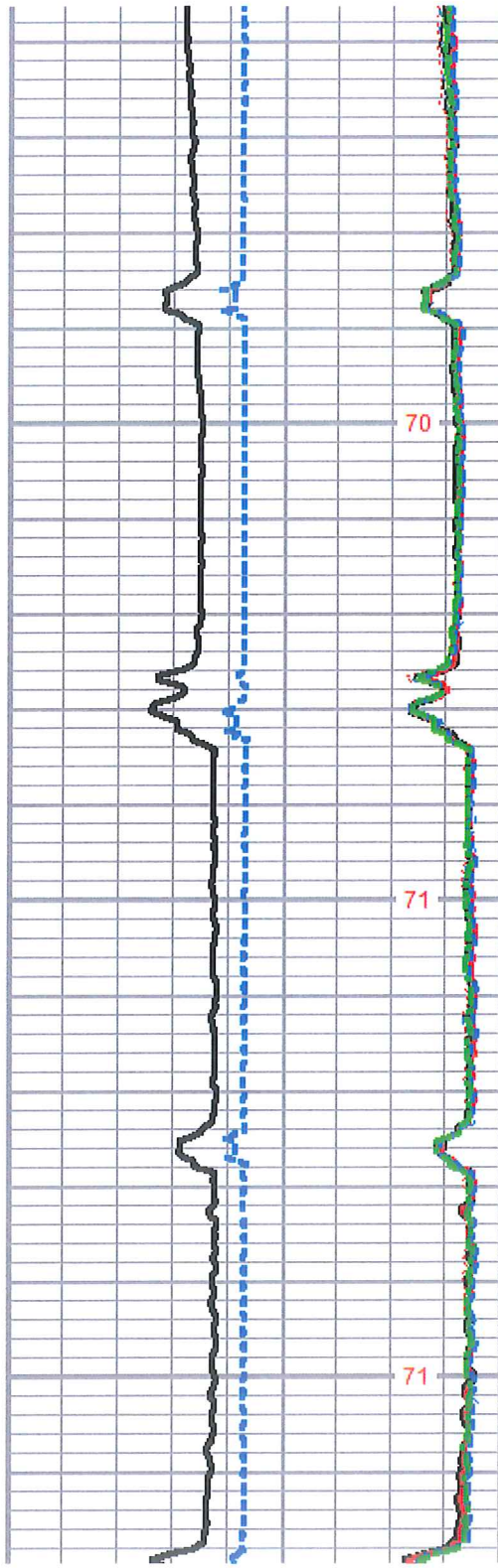
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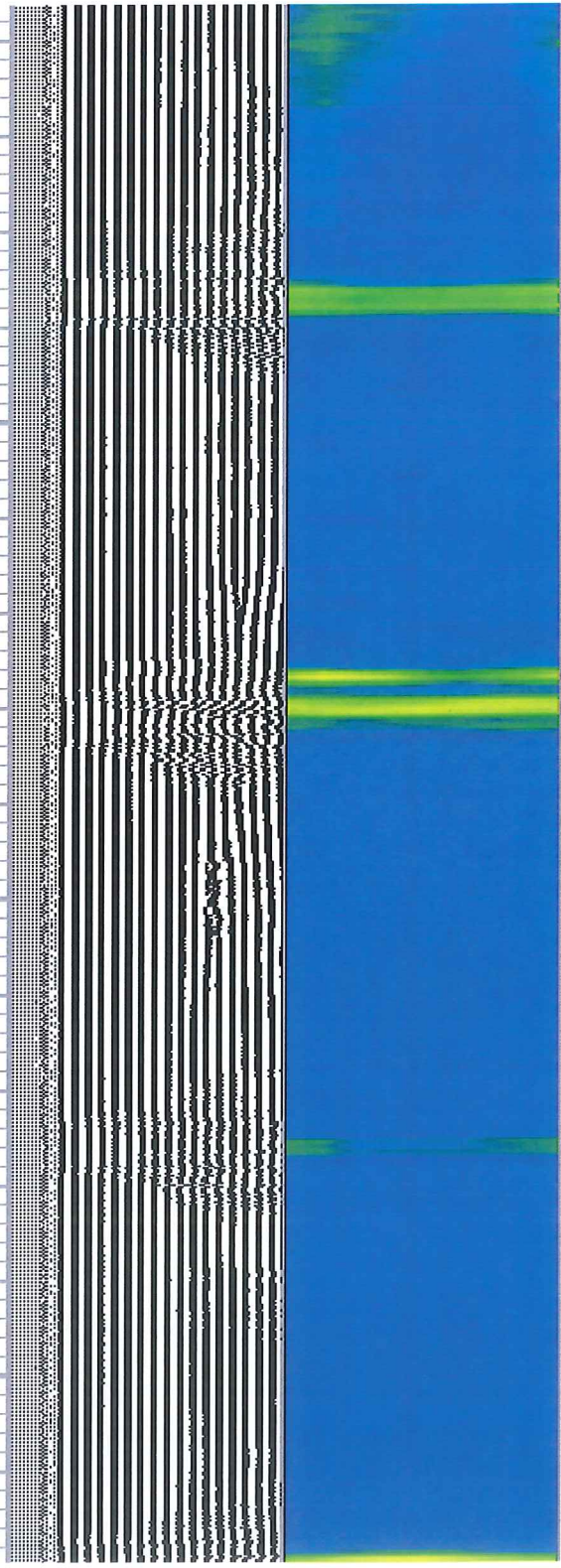
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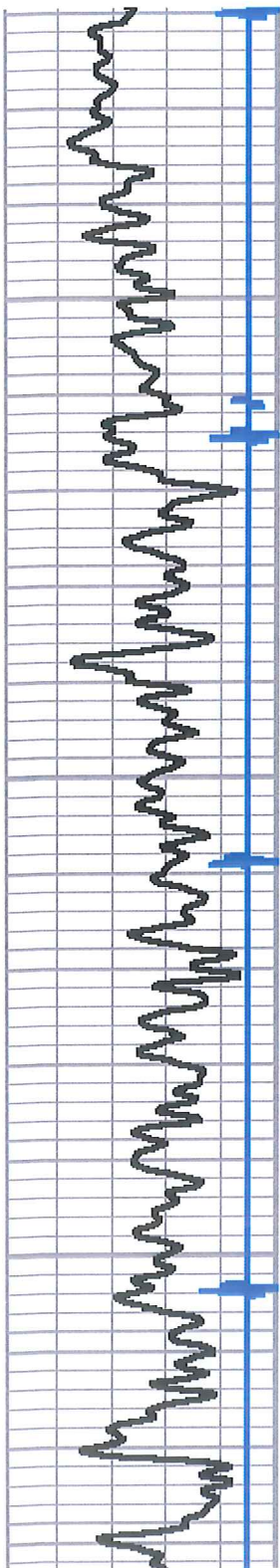


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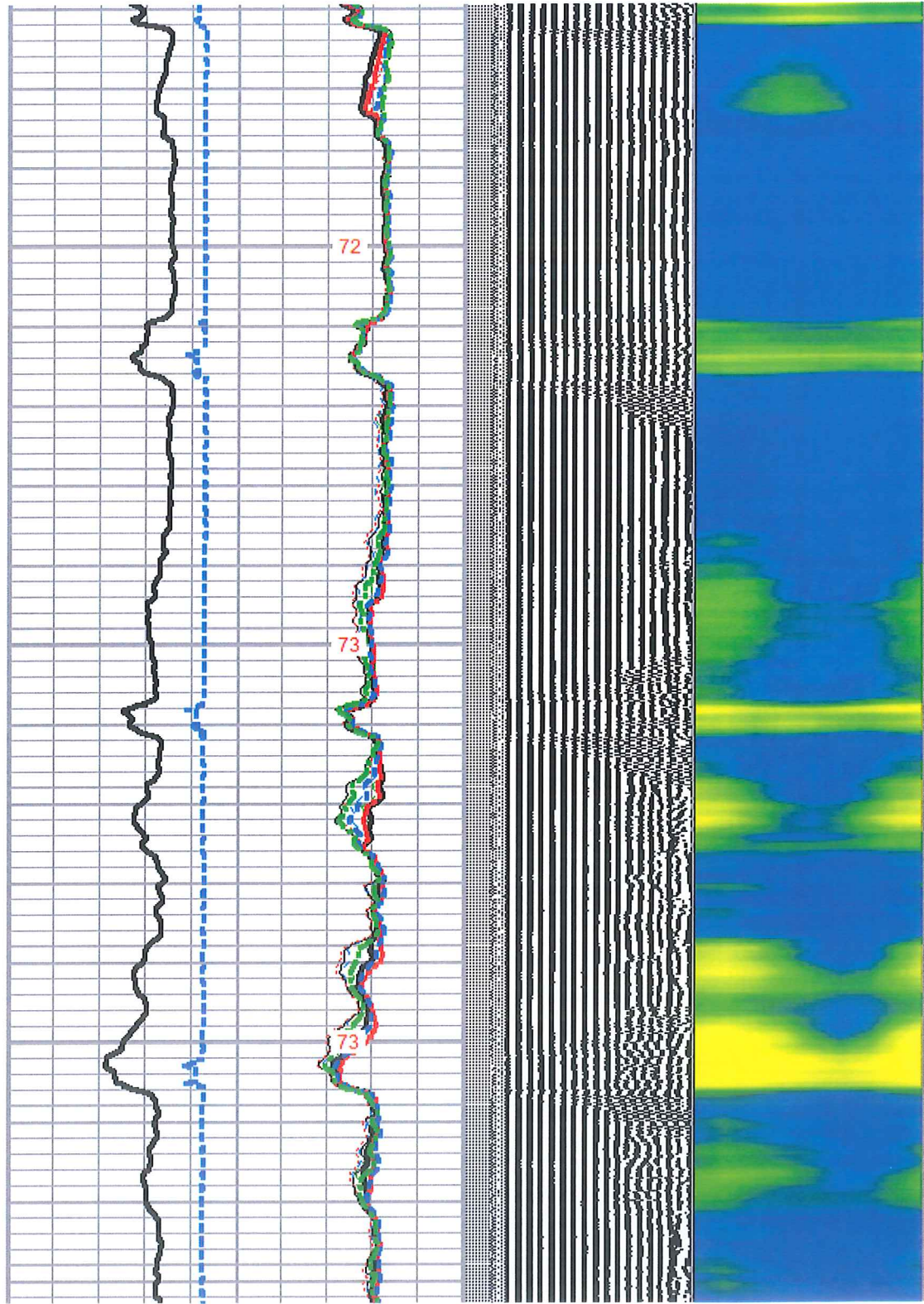


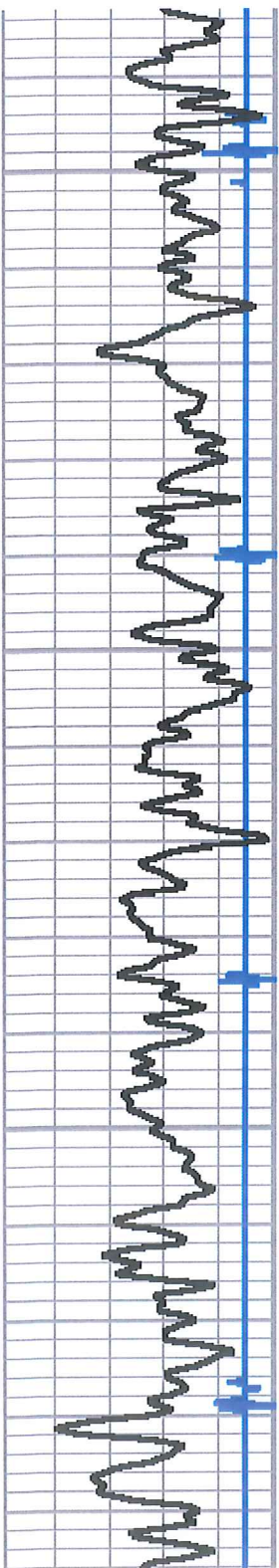


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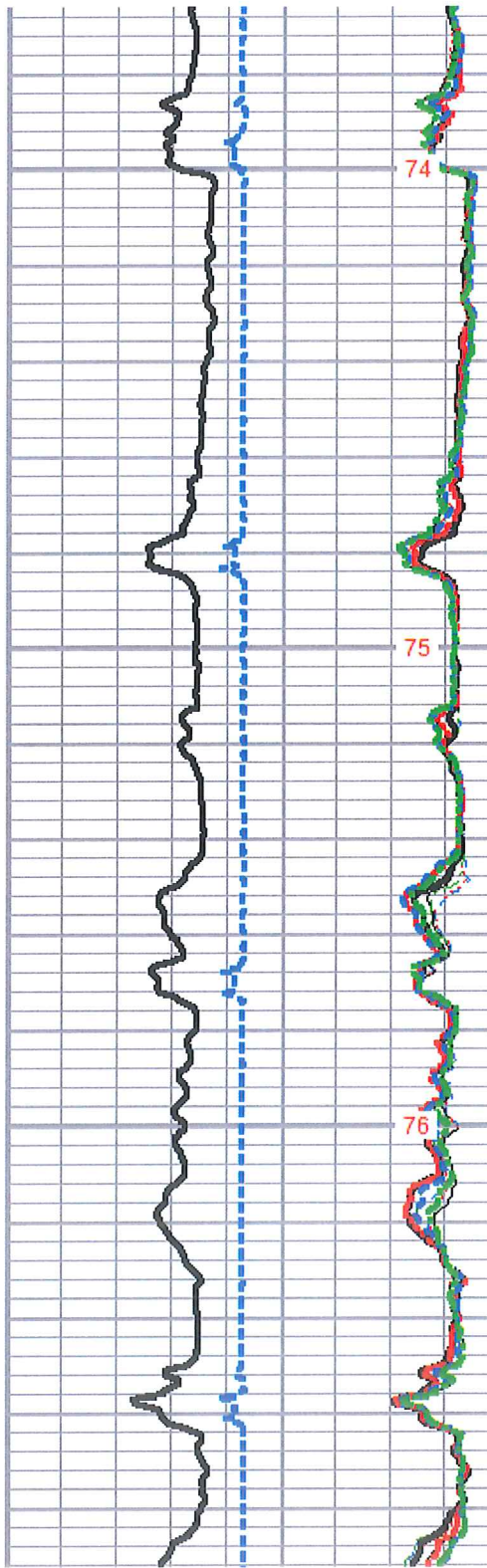




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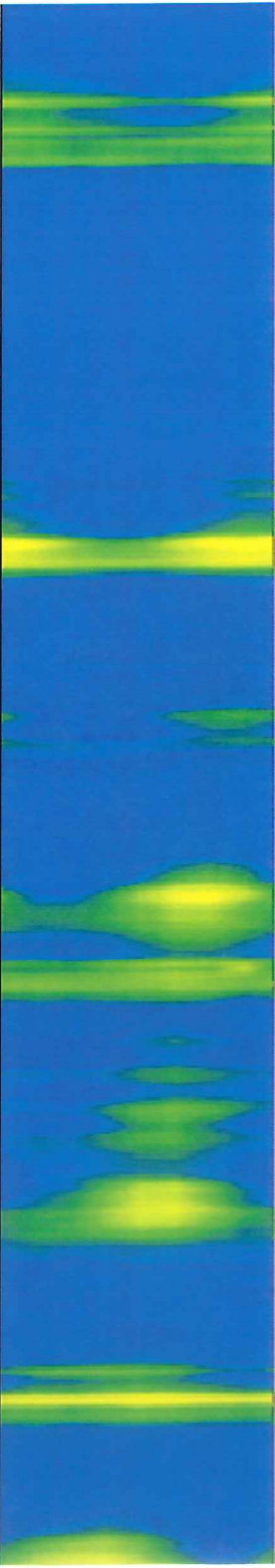
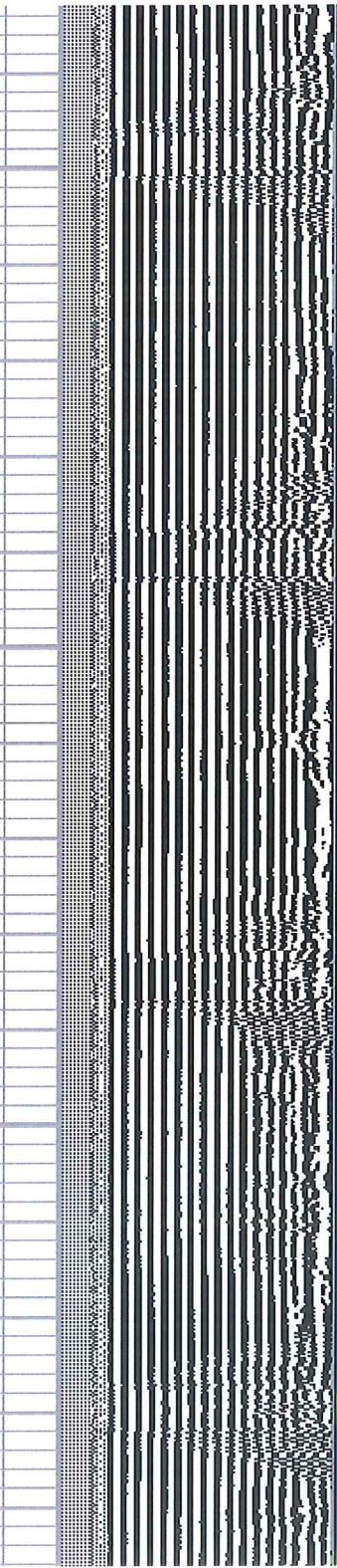
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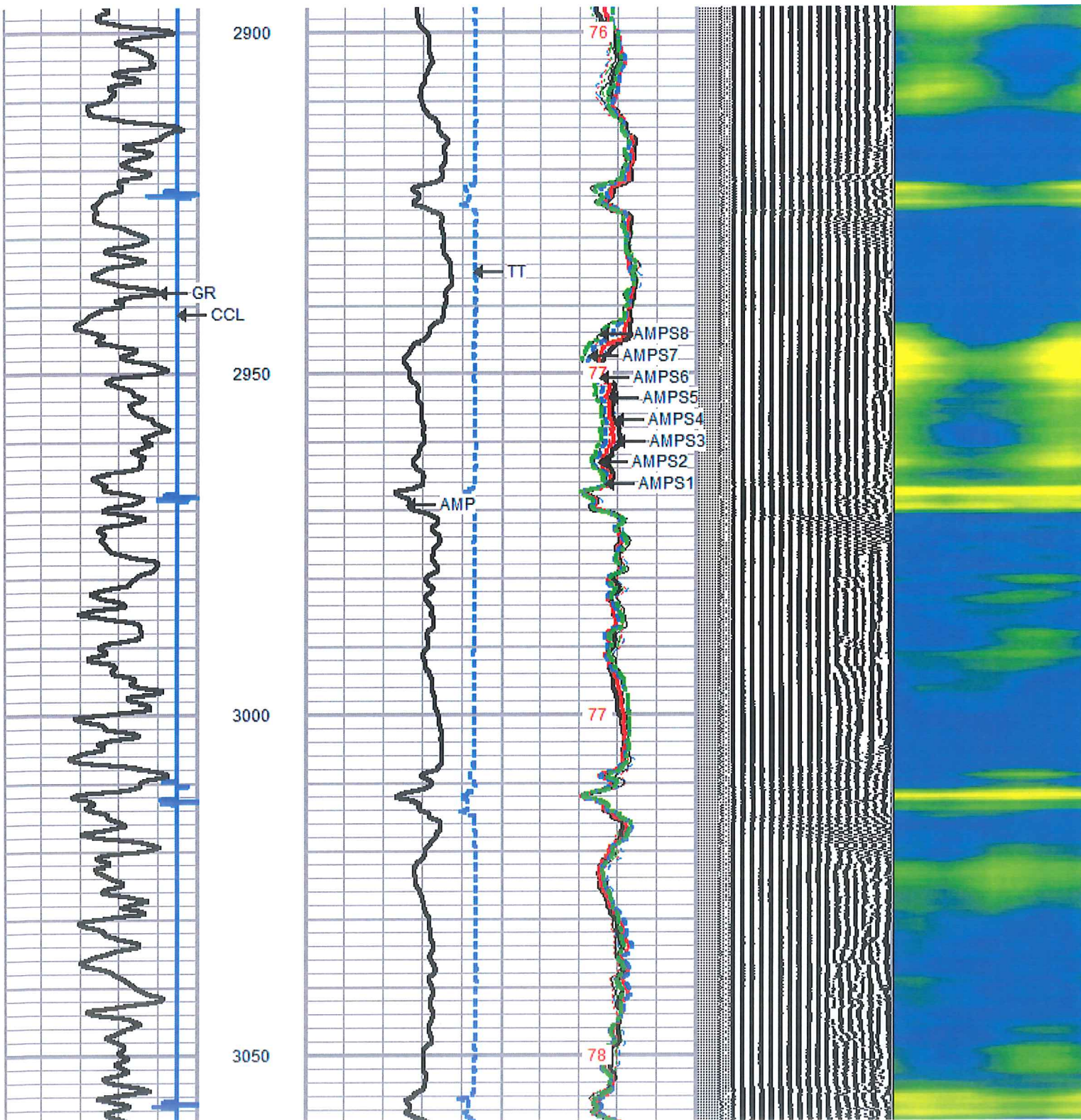


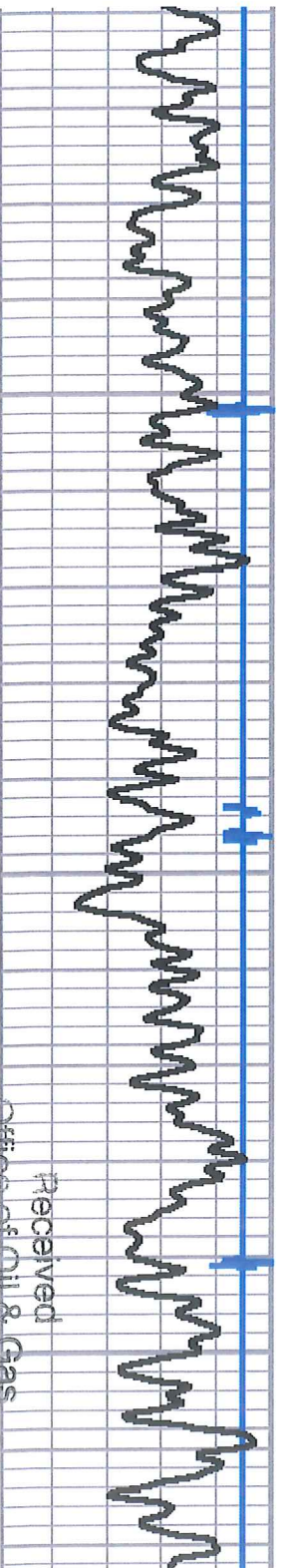
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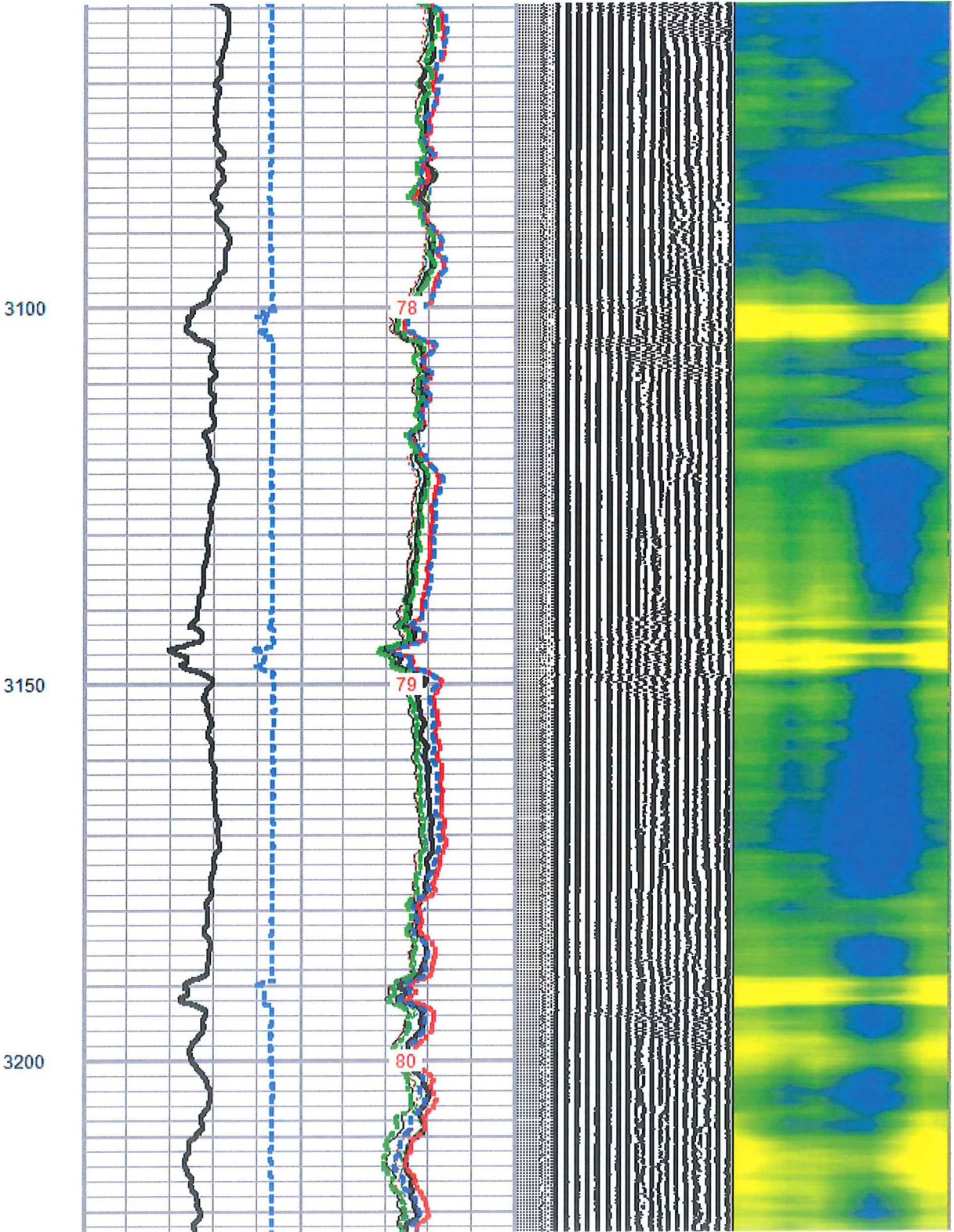


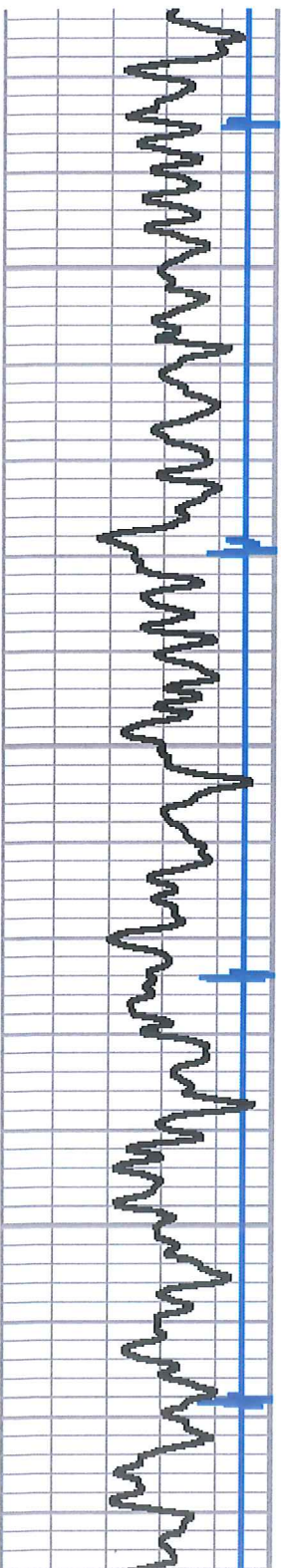




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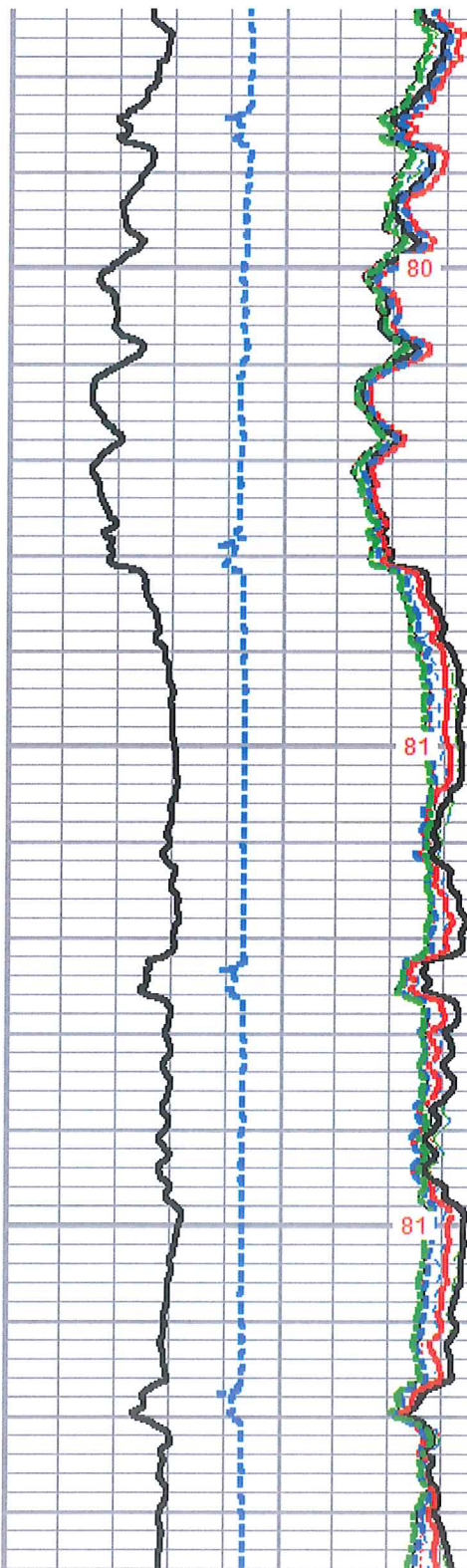




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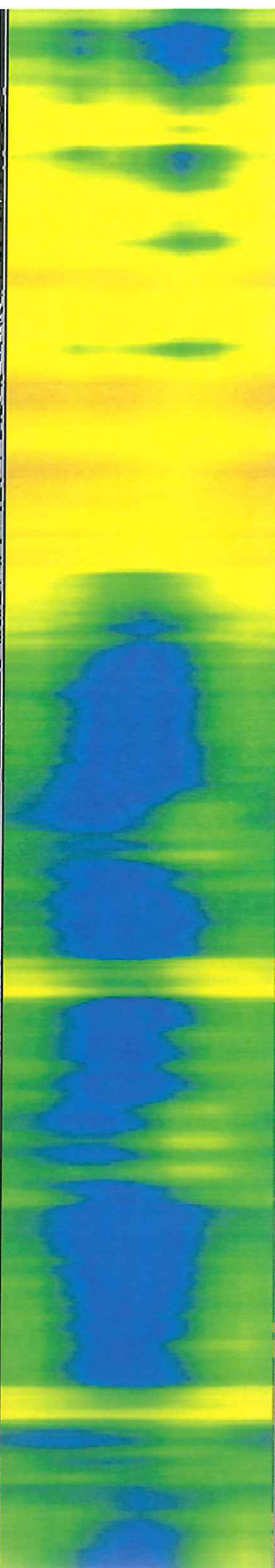
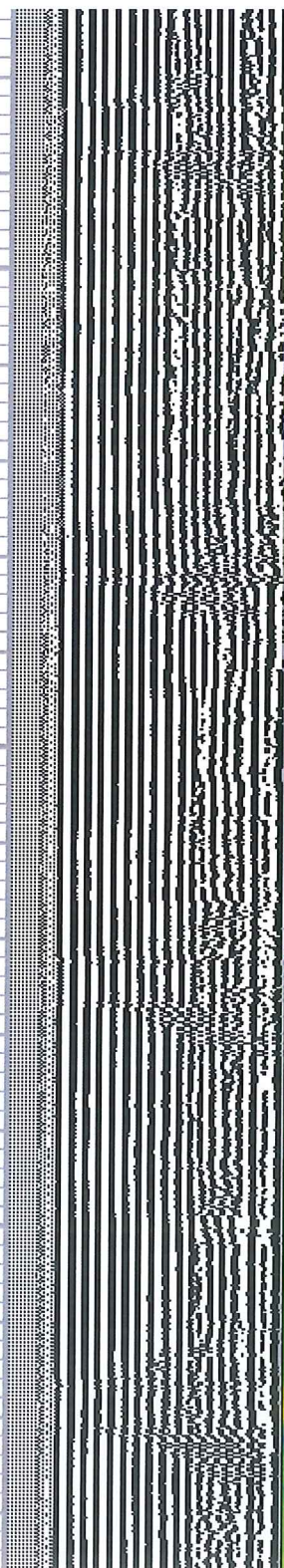
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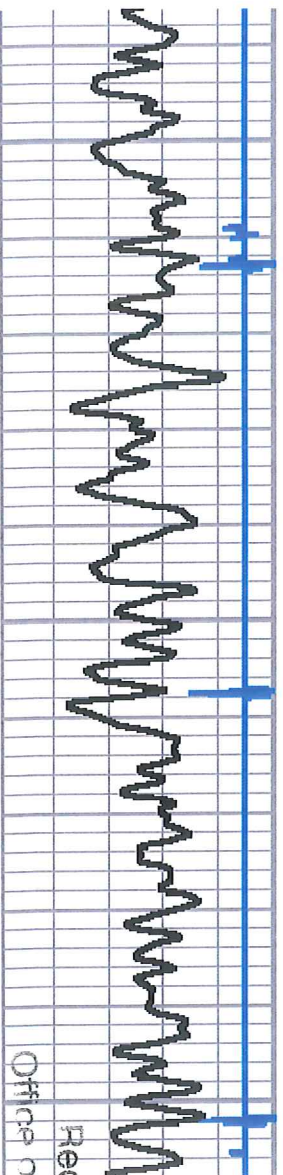


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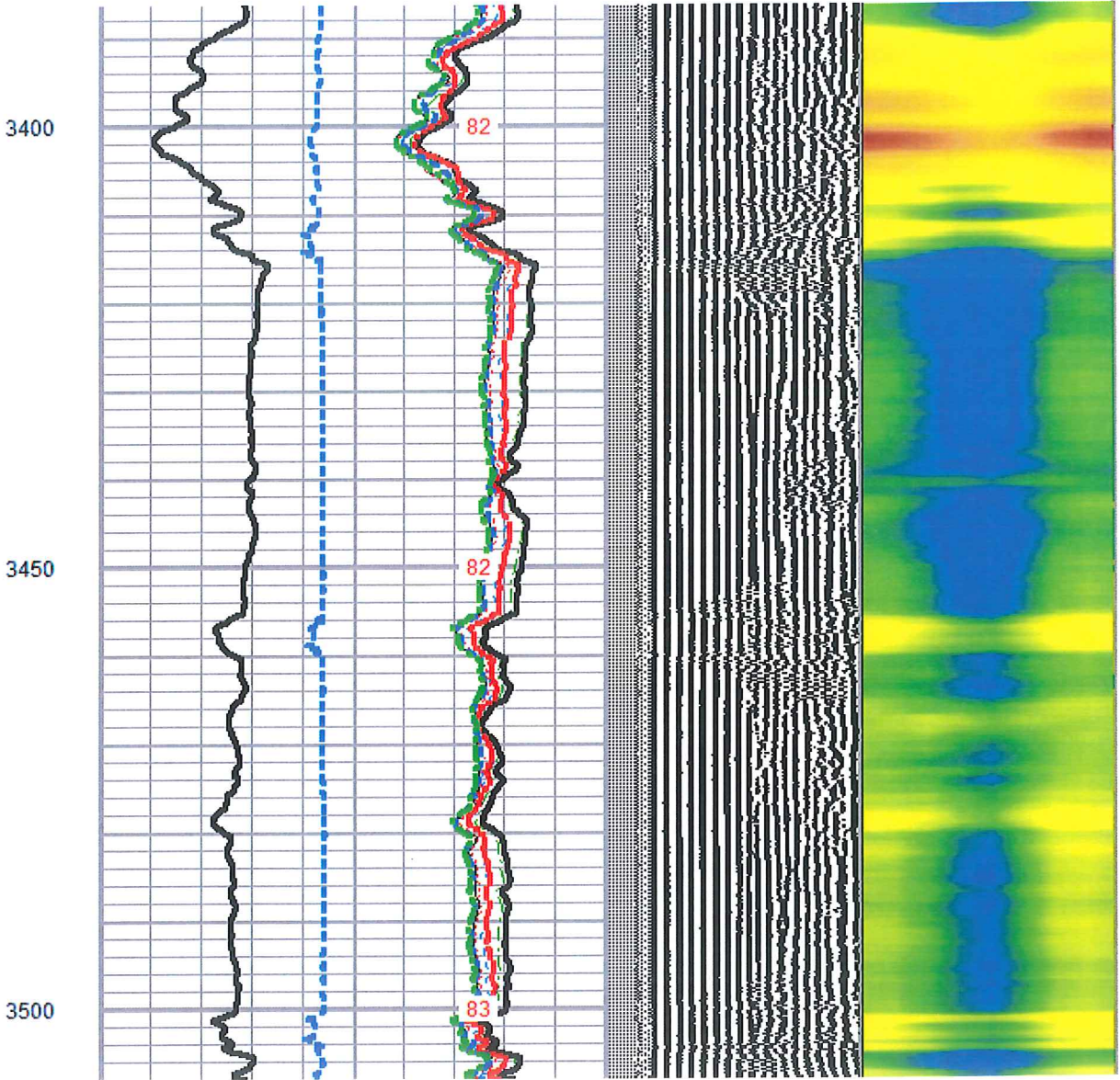
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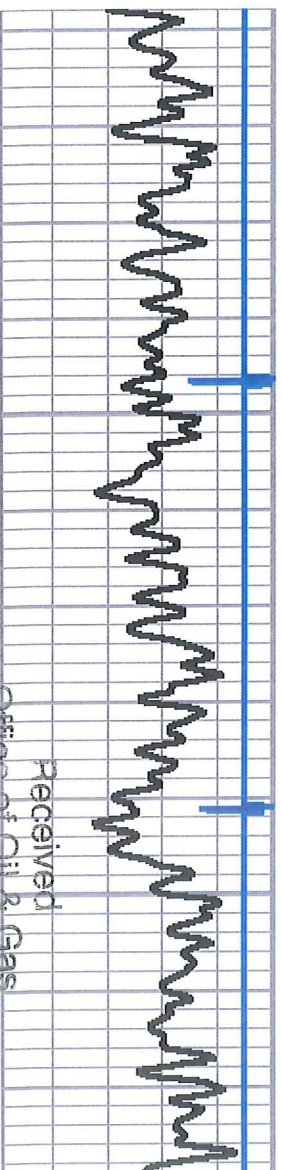
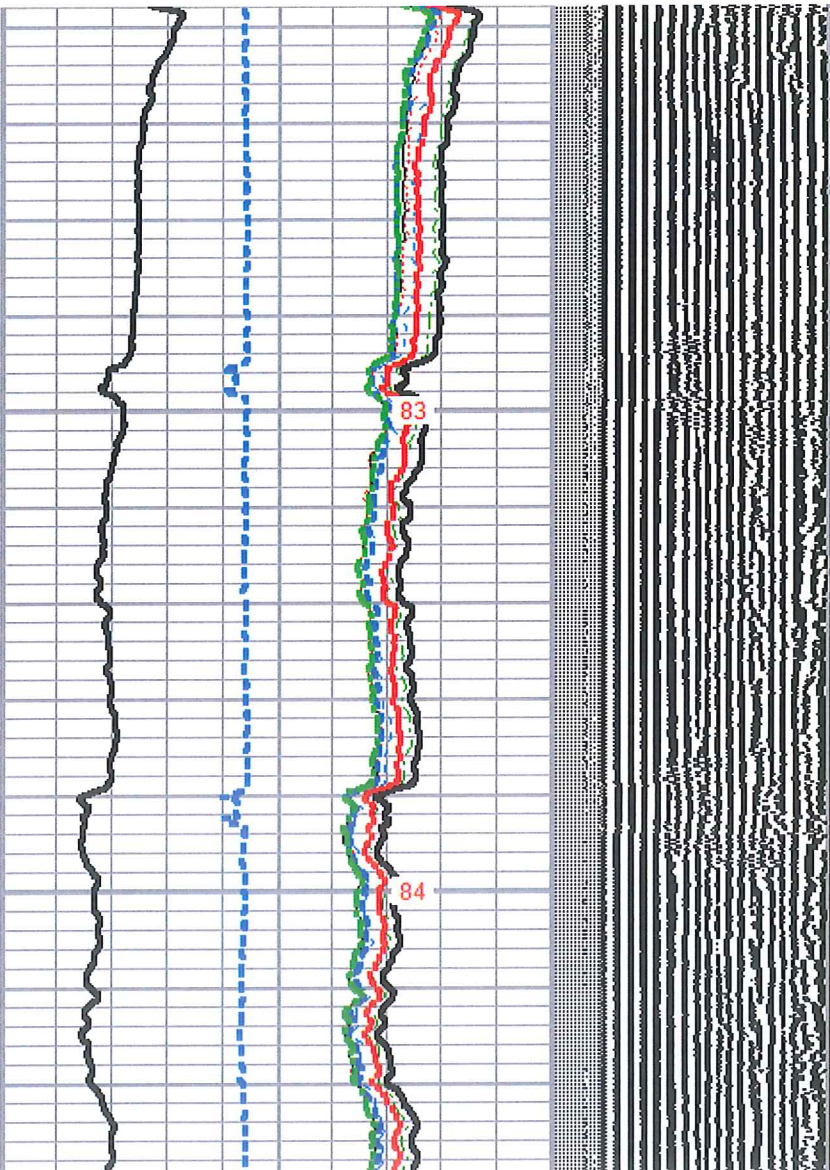
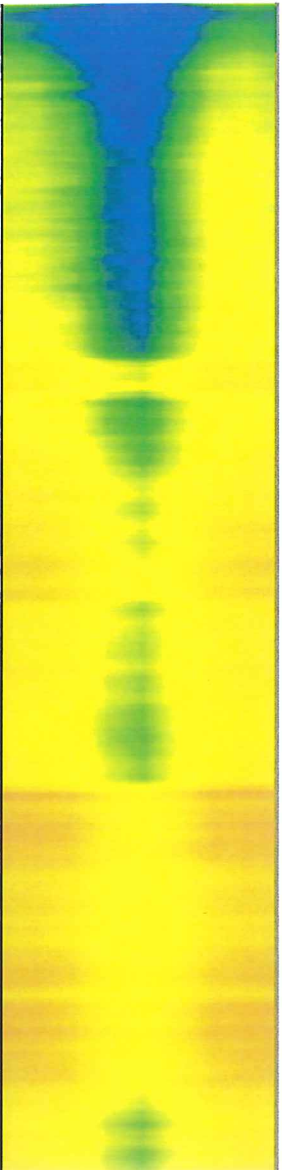




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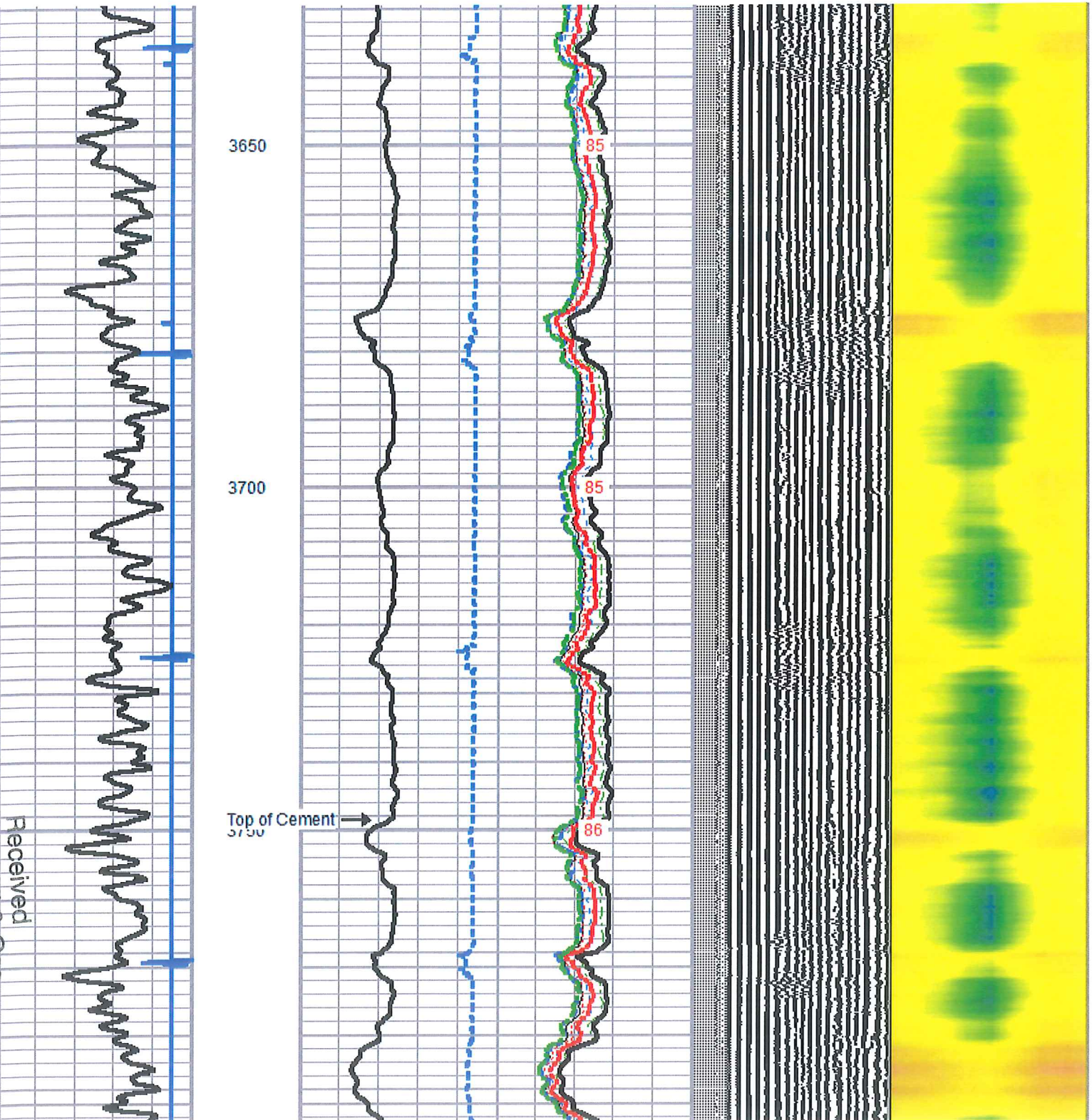
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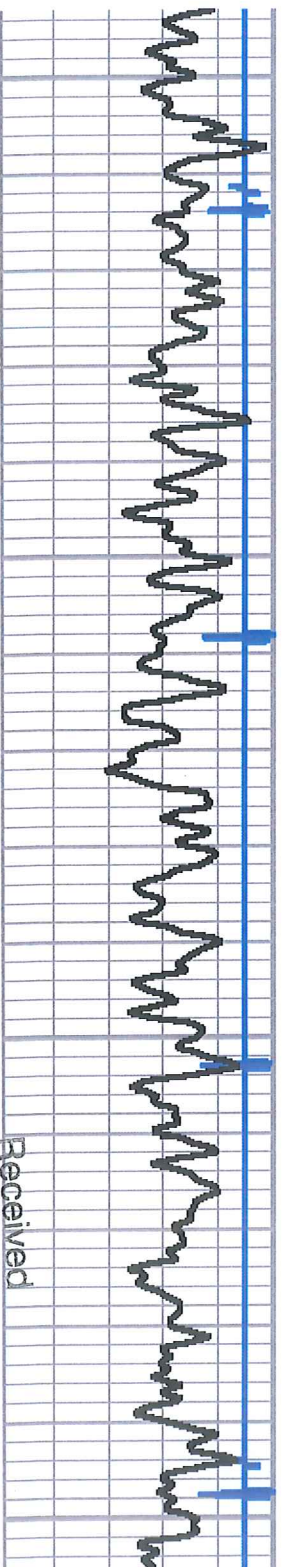
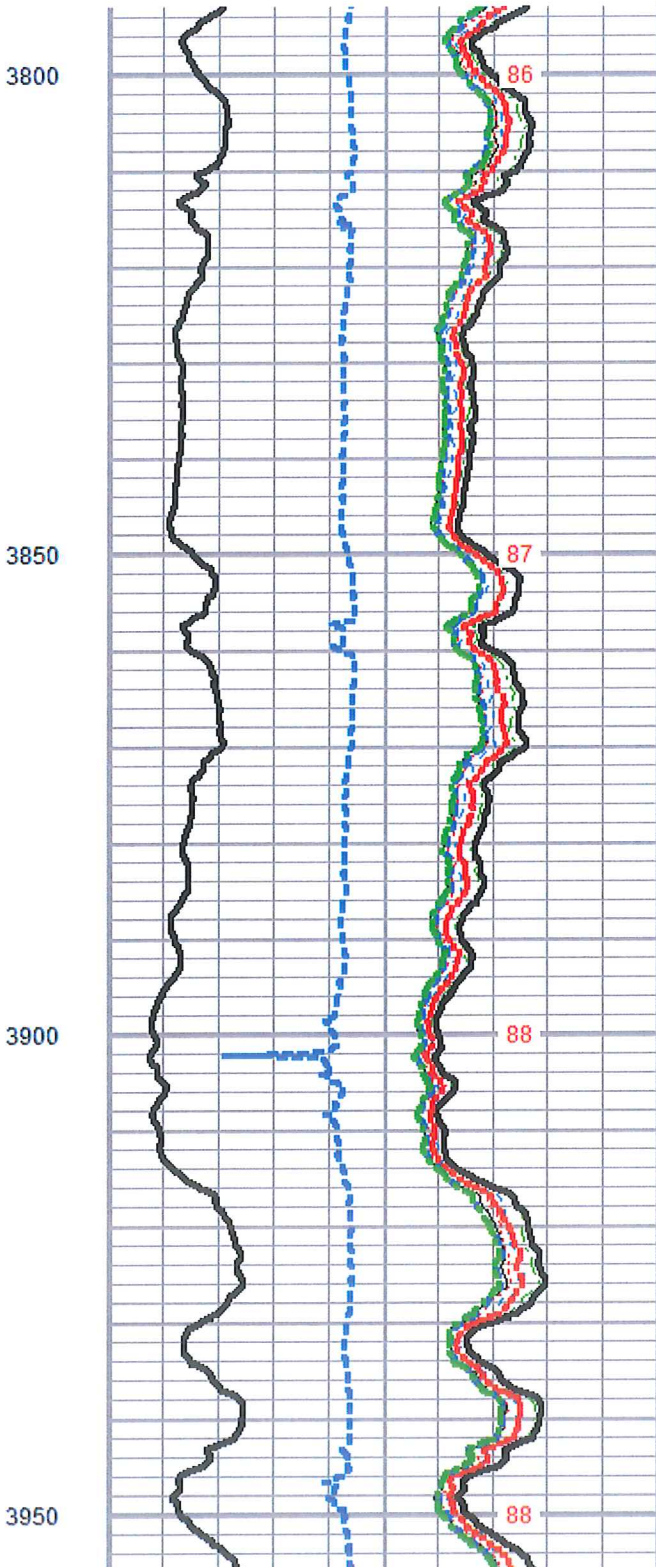
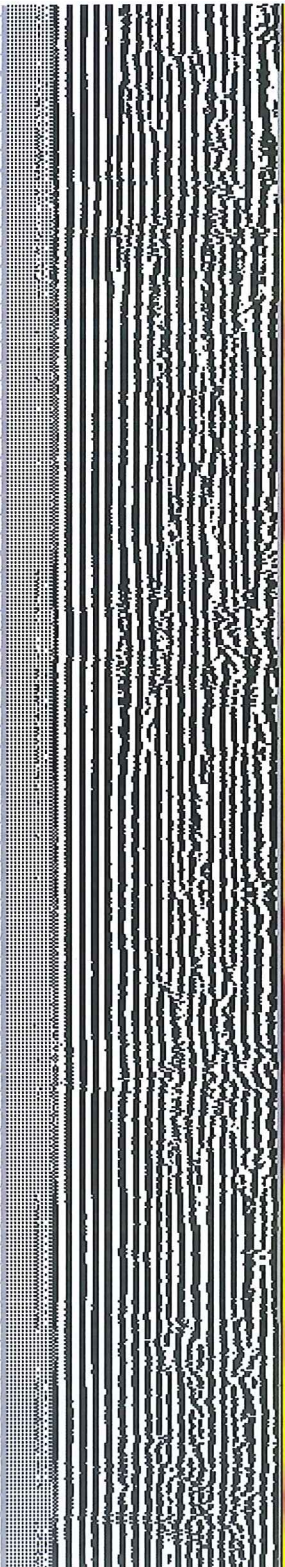
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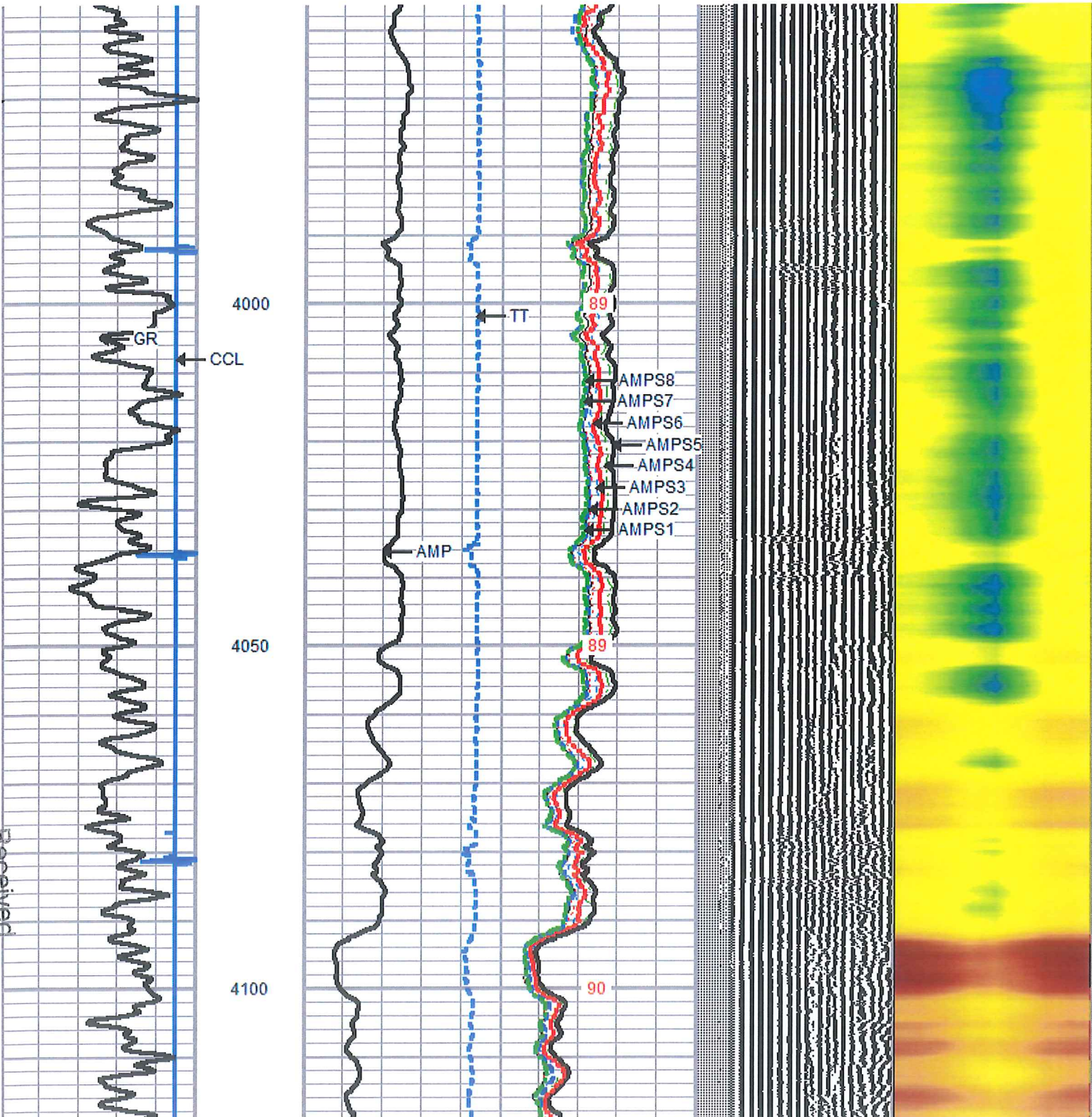
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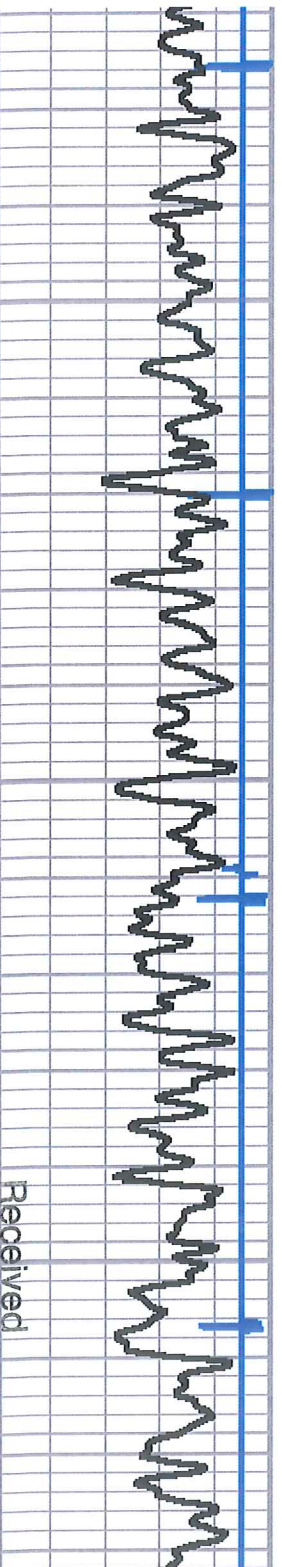
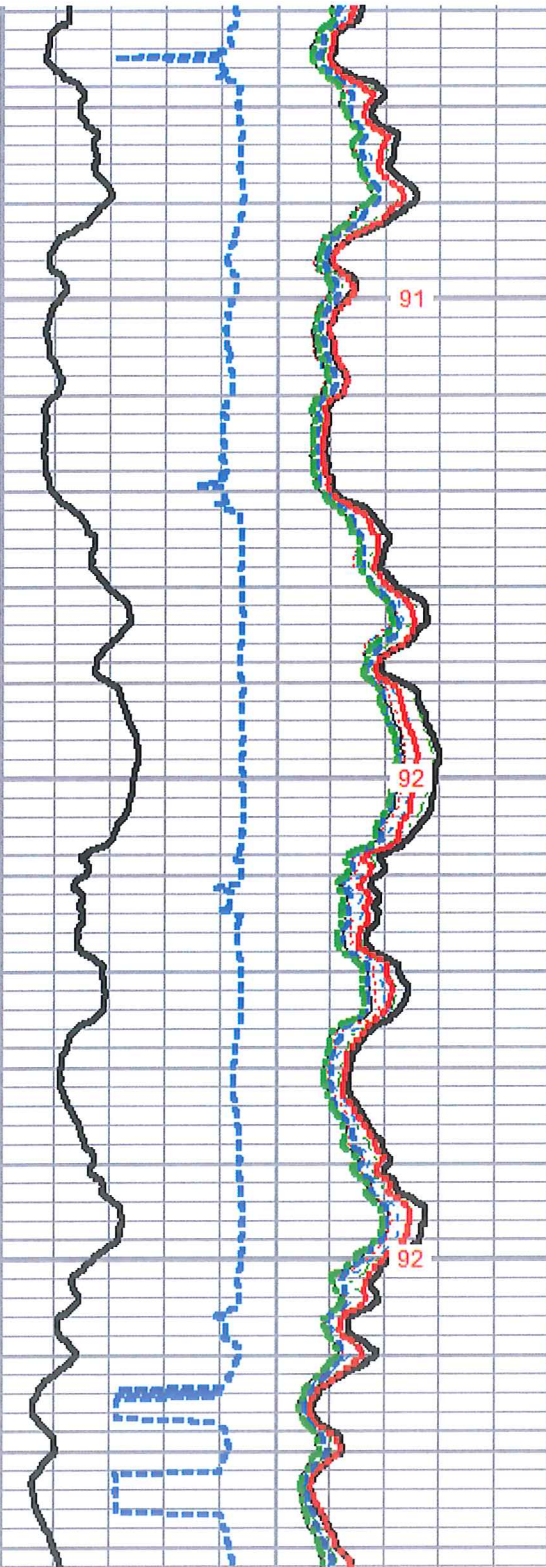
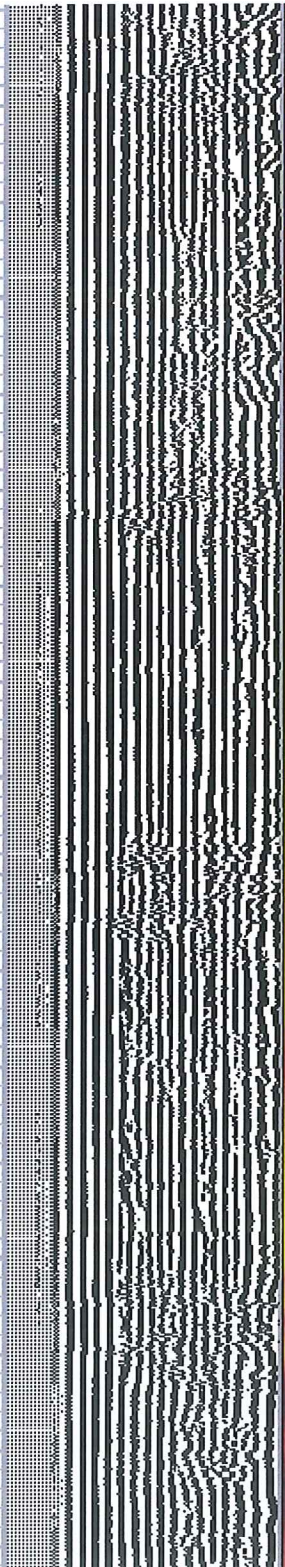
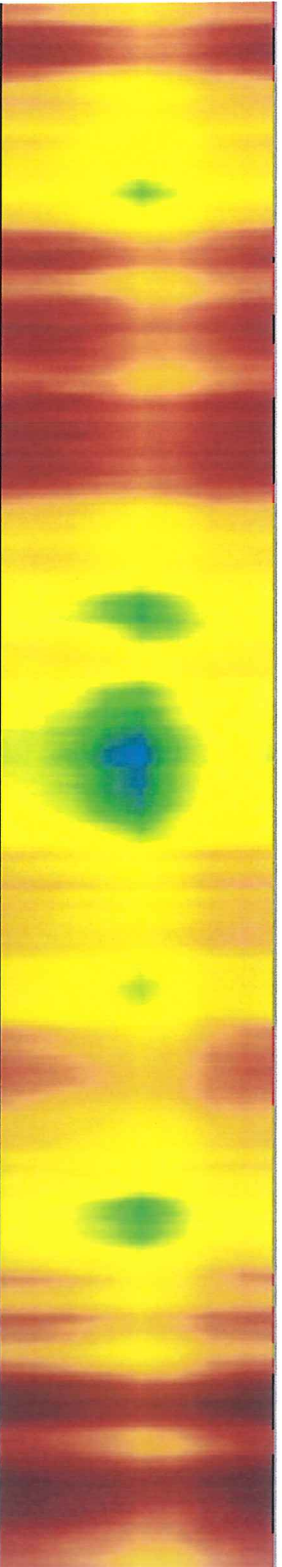
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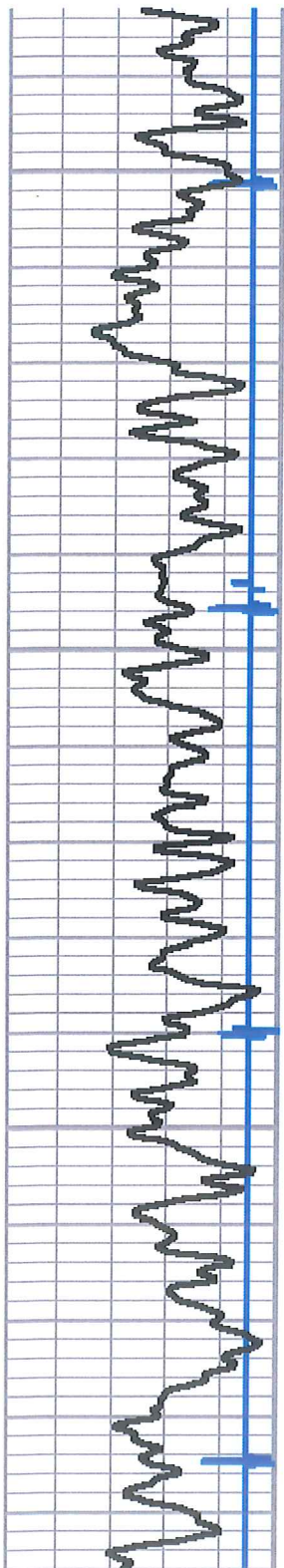
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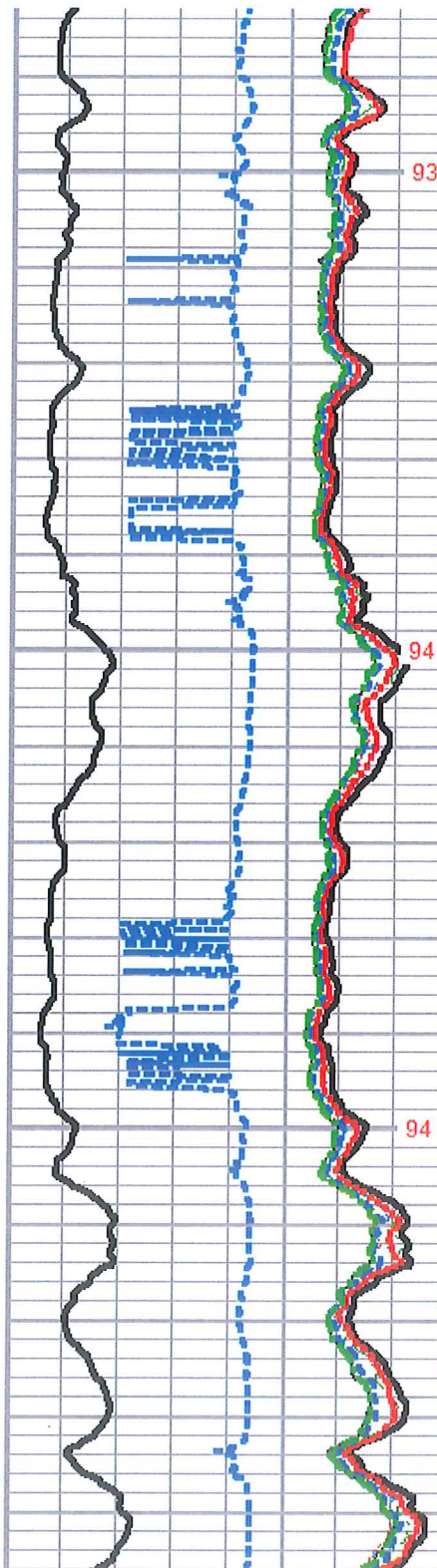
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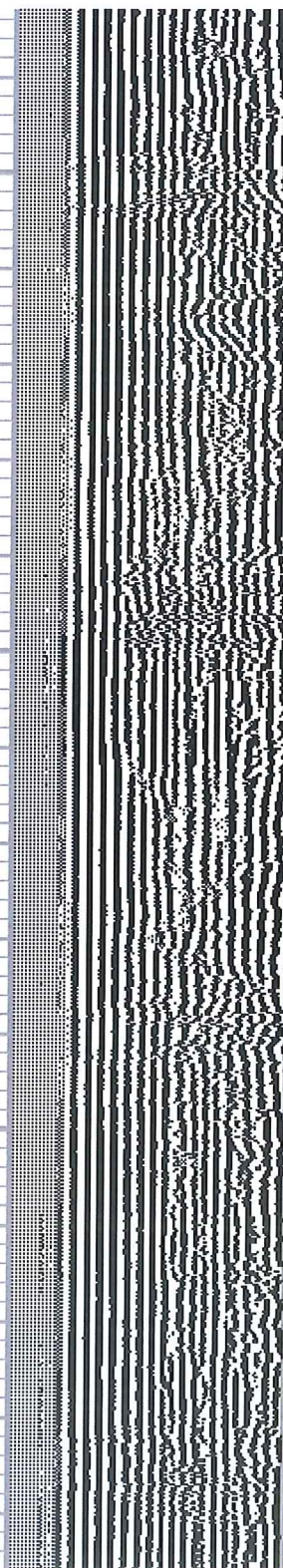
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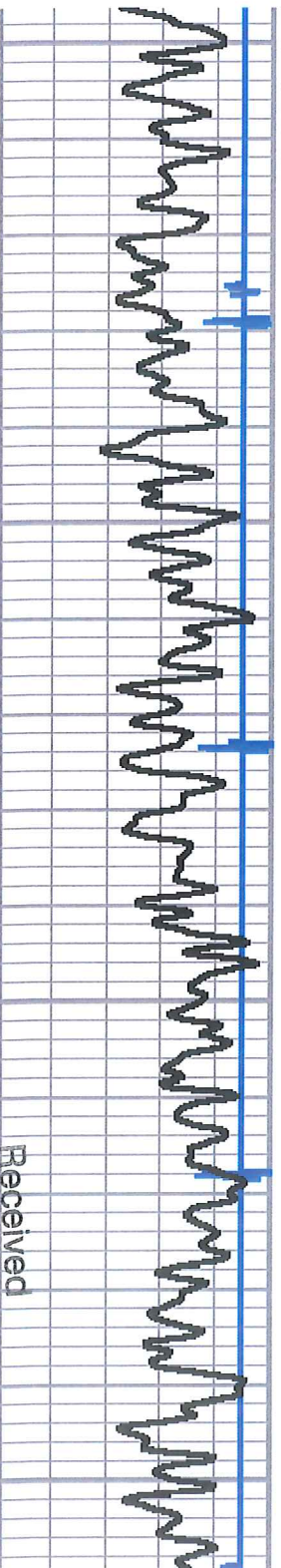
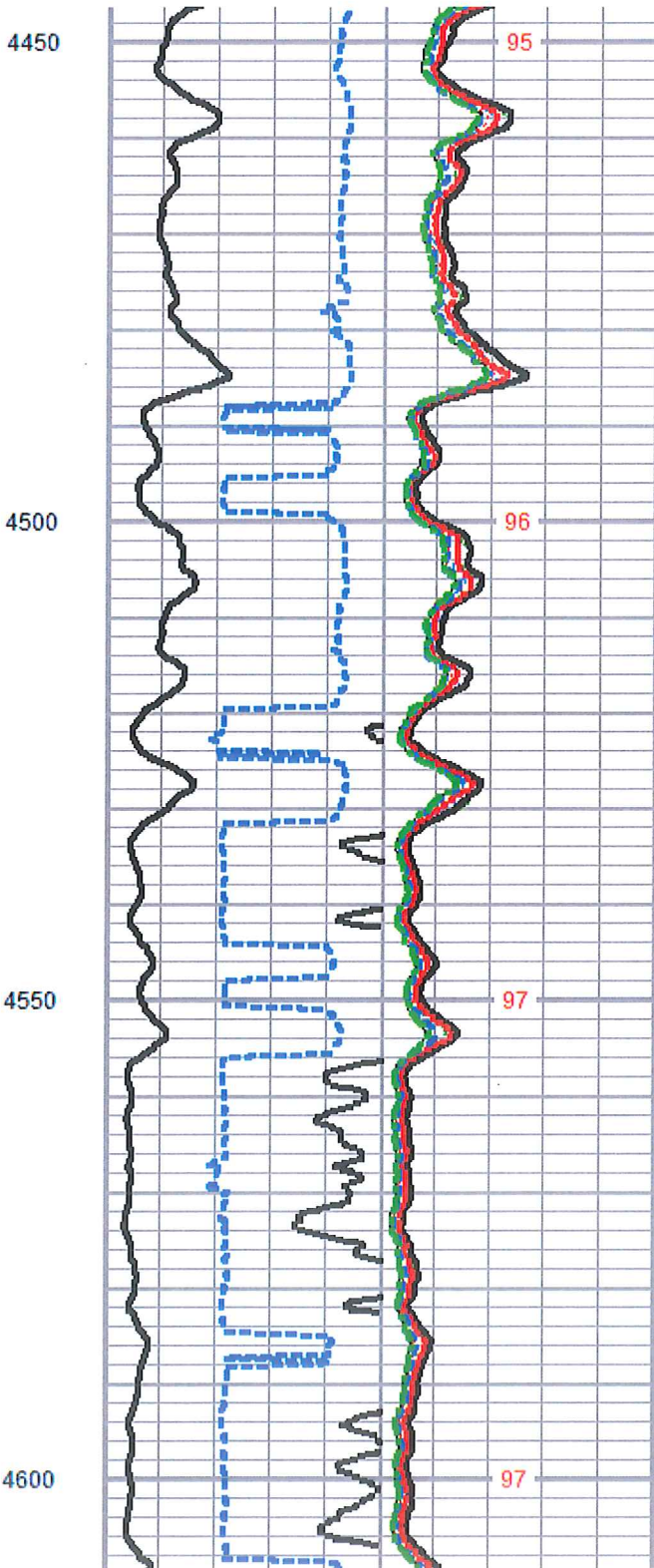
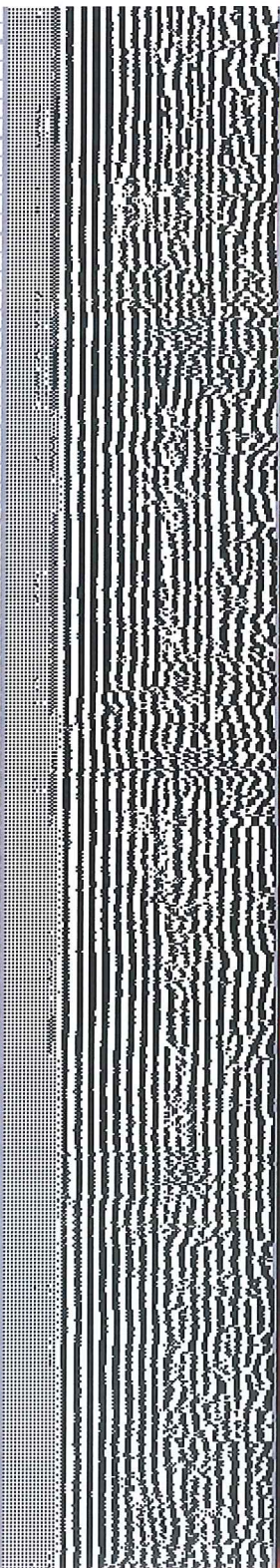
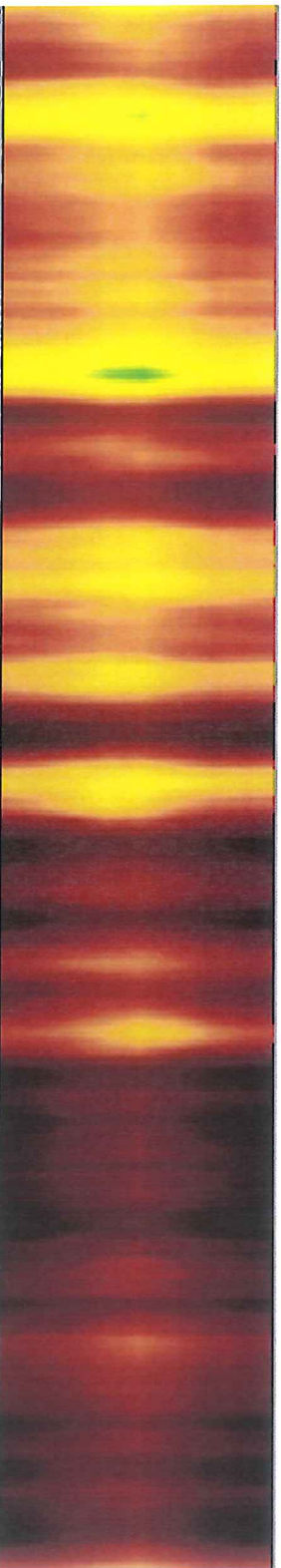


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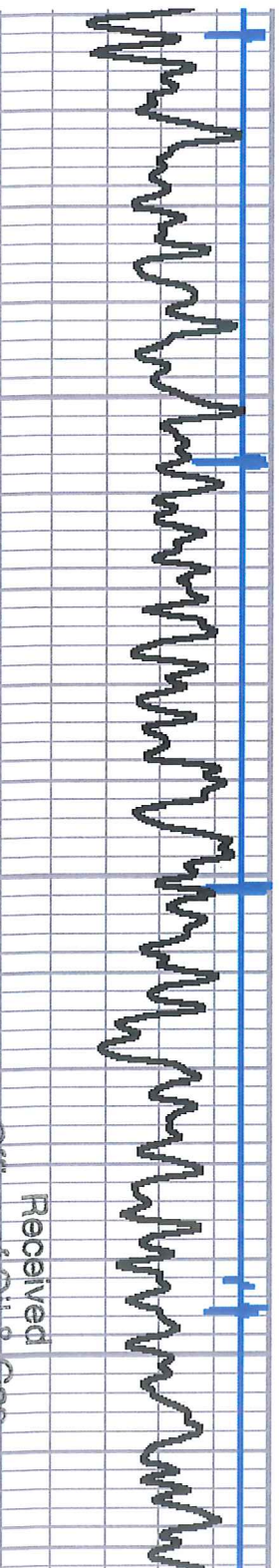
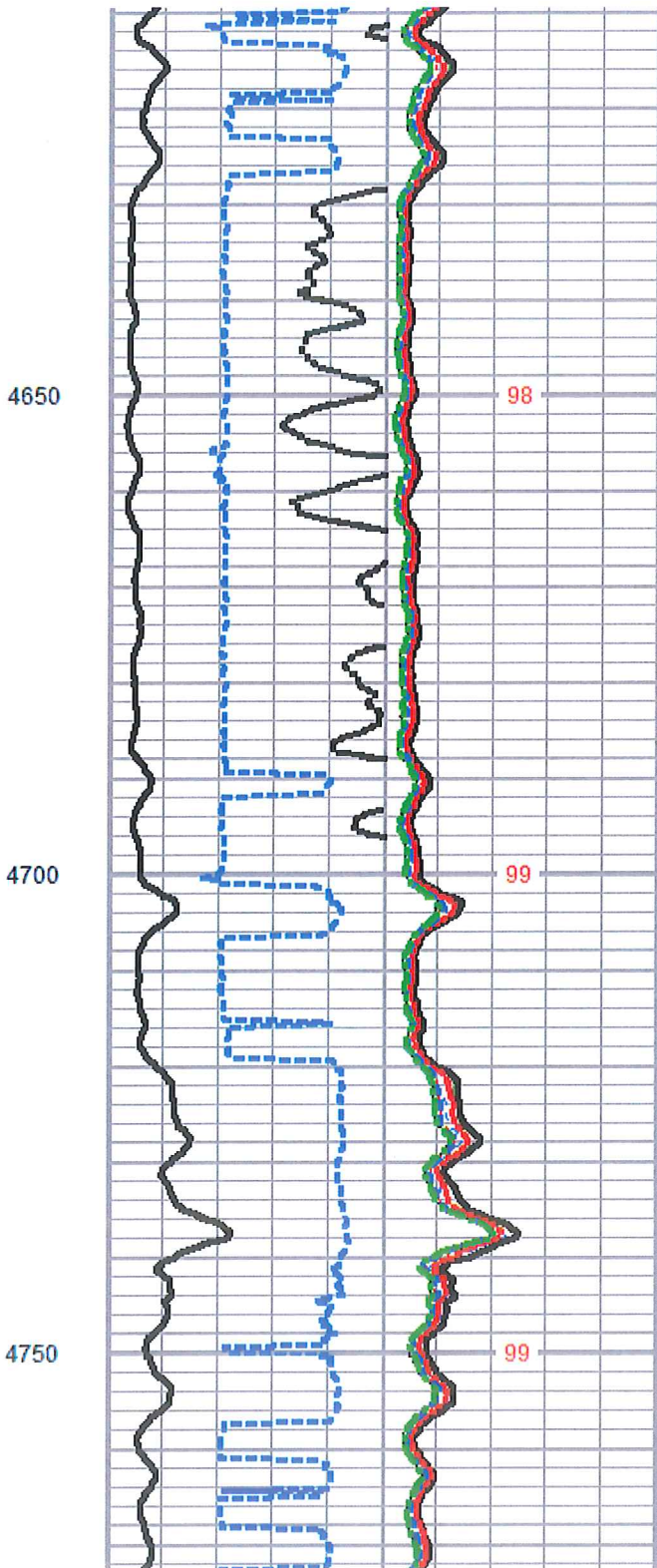
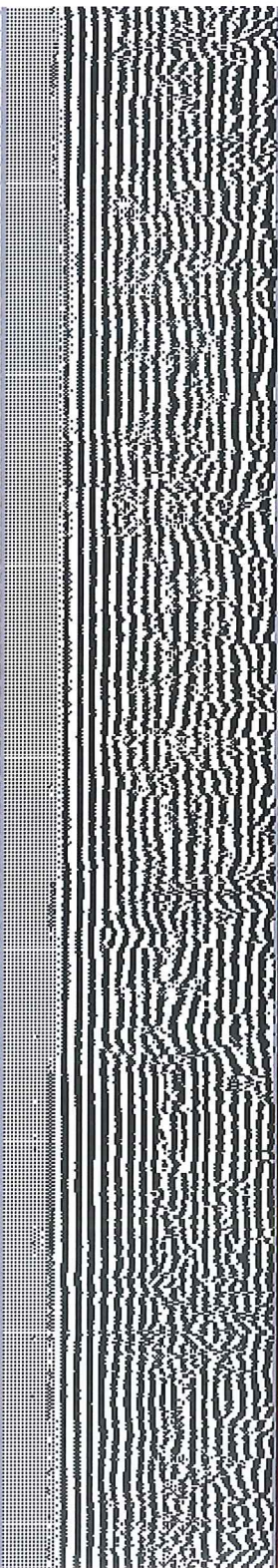
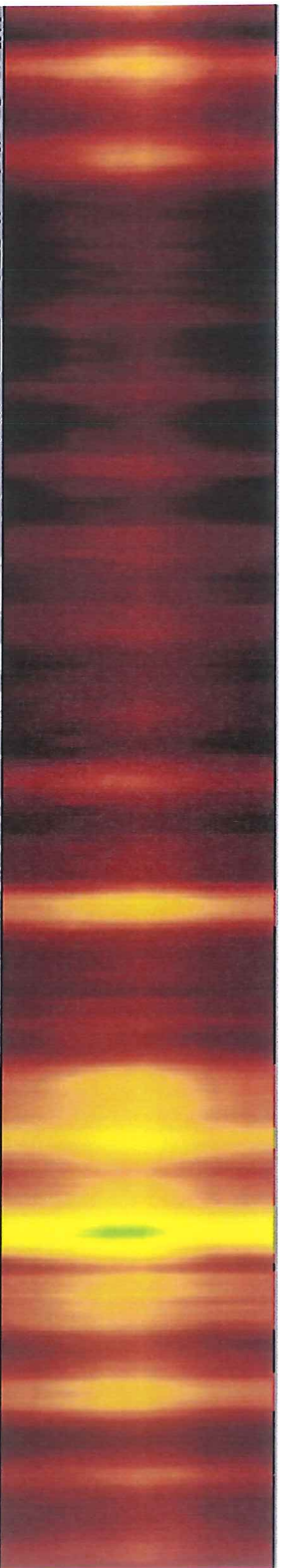




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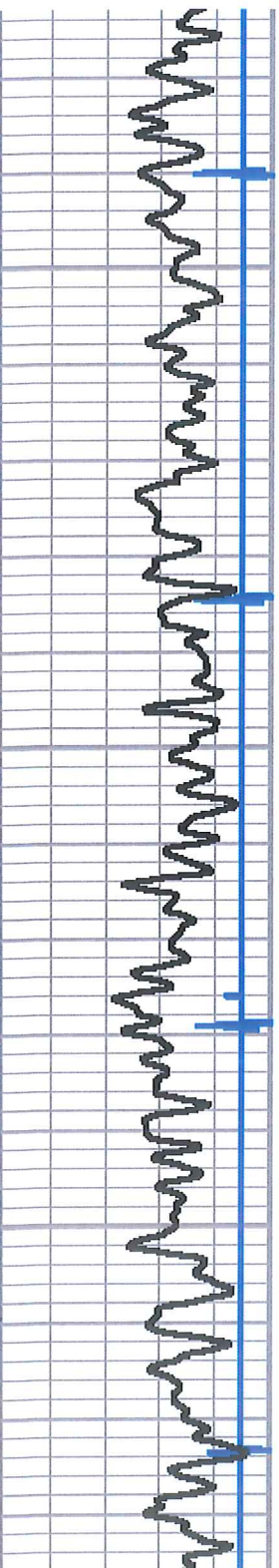
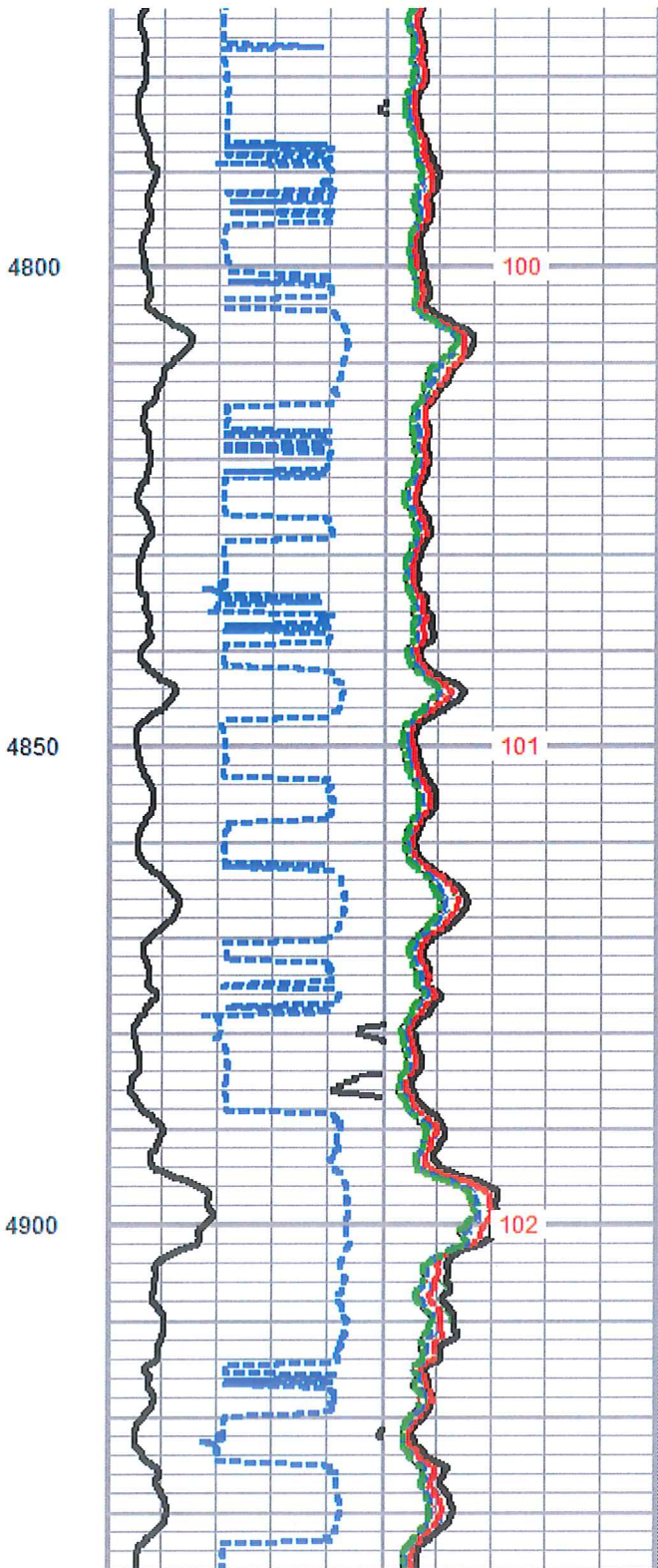
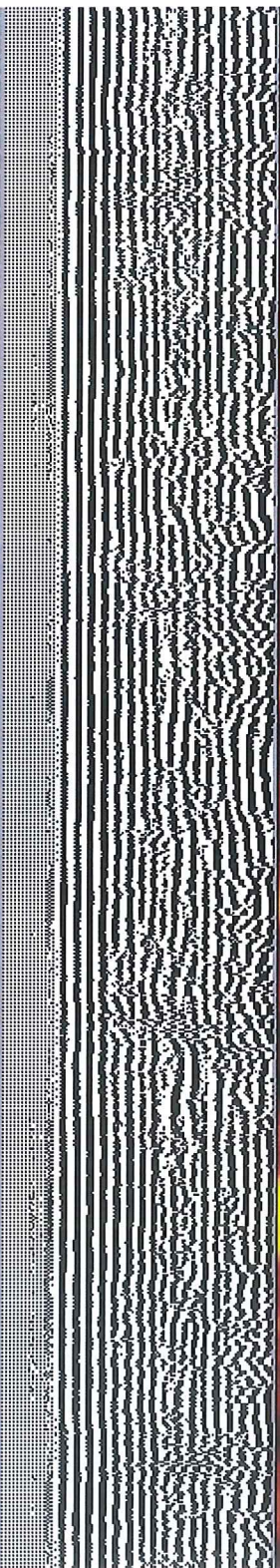
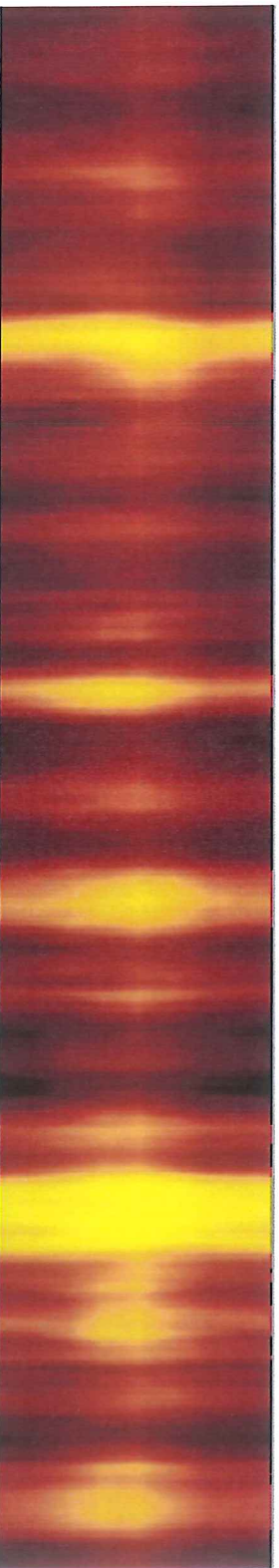
Office of Oil & Gas

JUL 27 2015

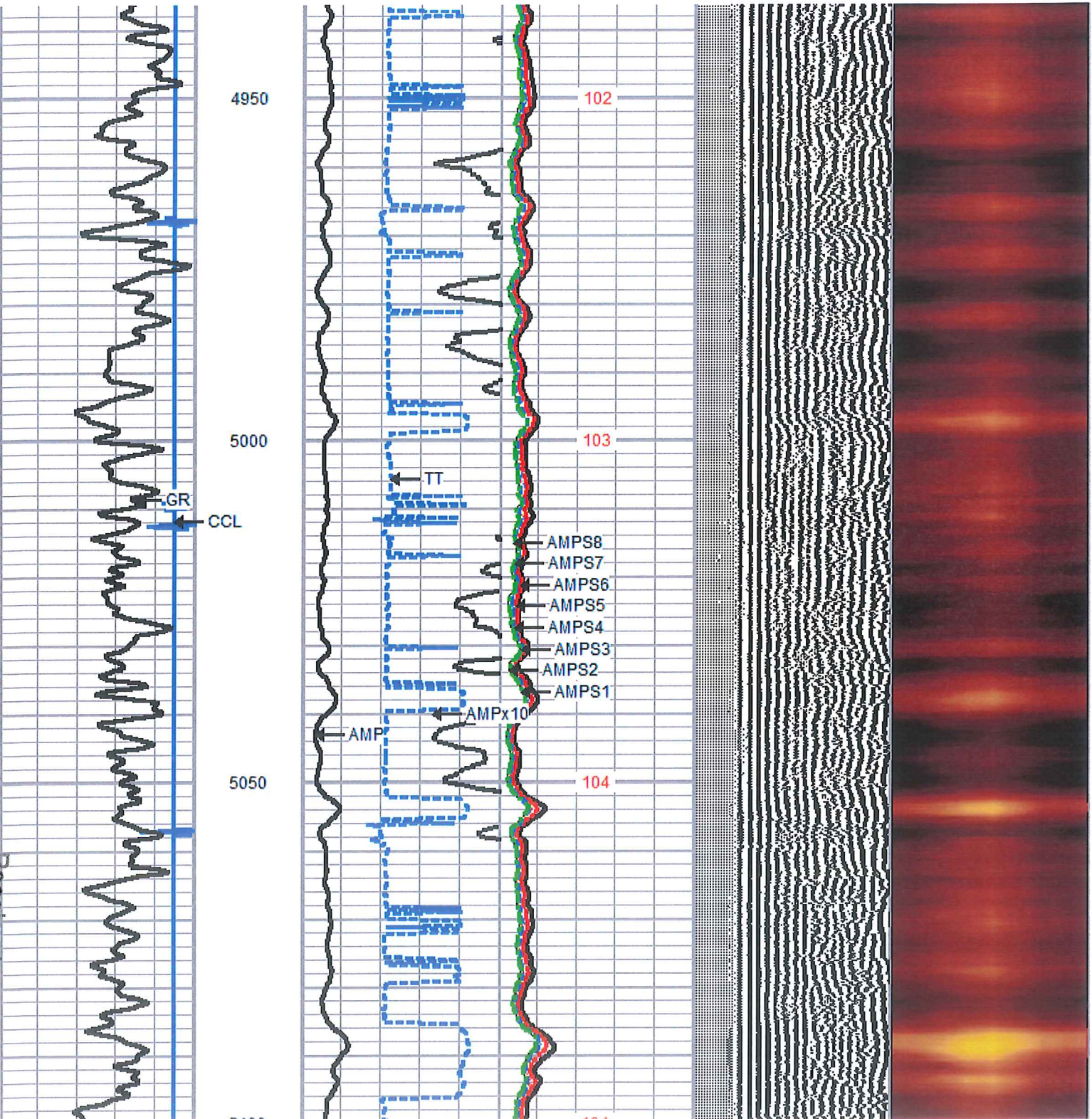


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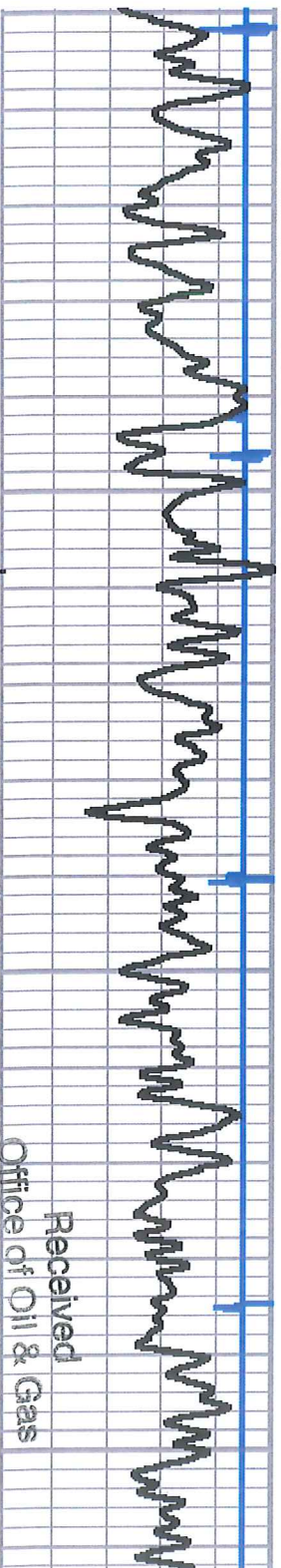


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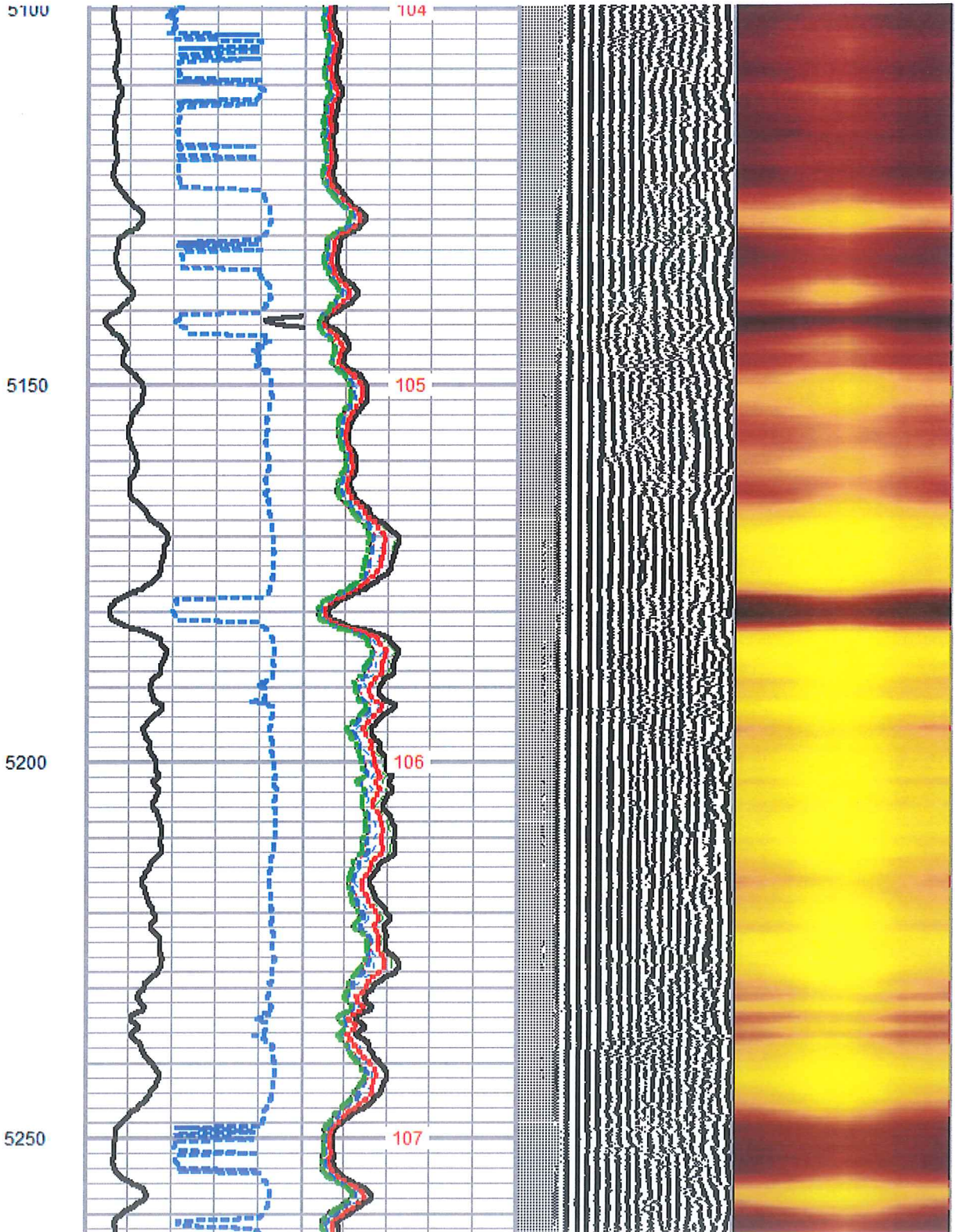


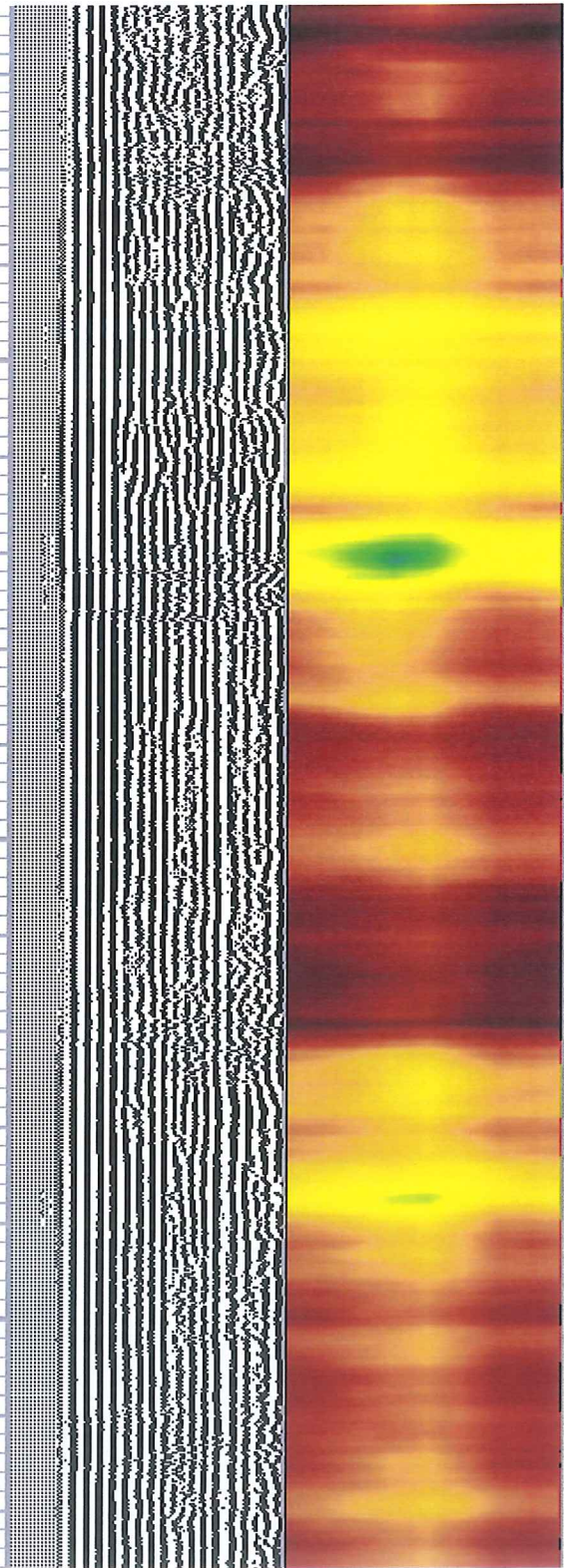
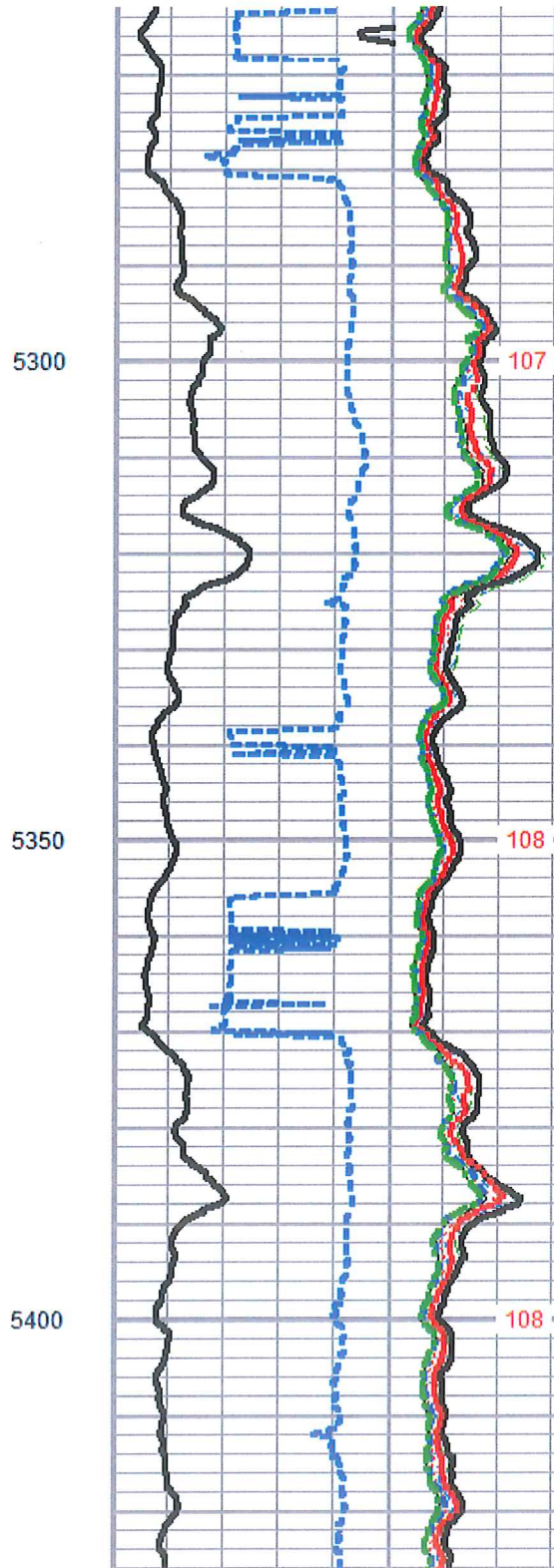
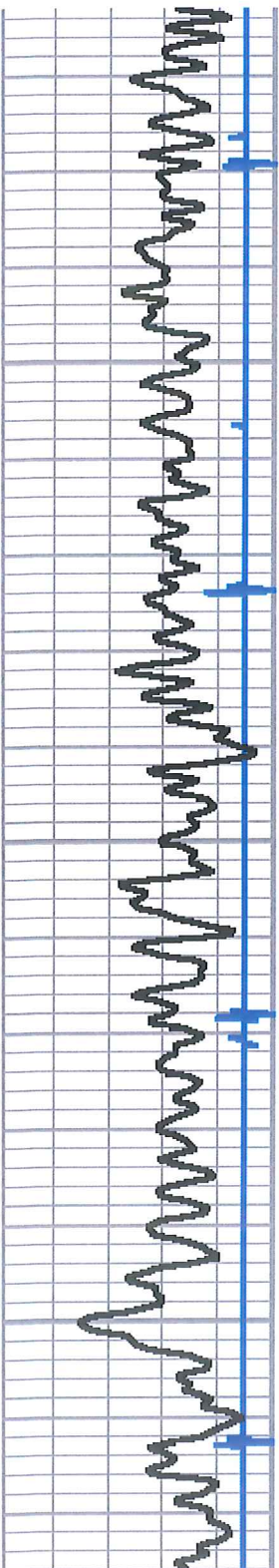
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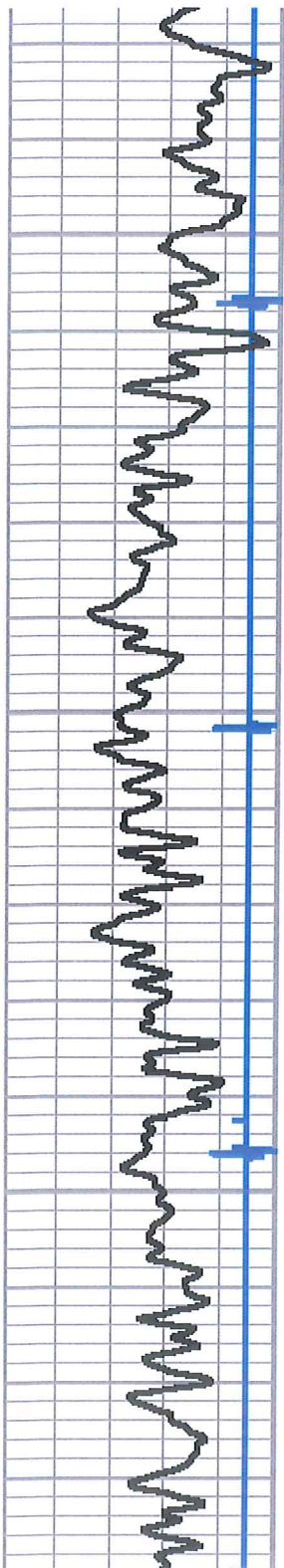
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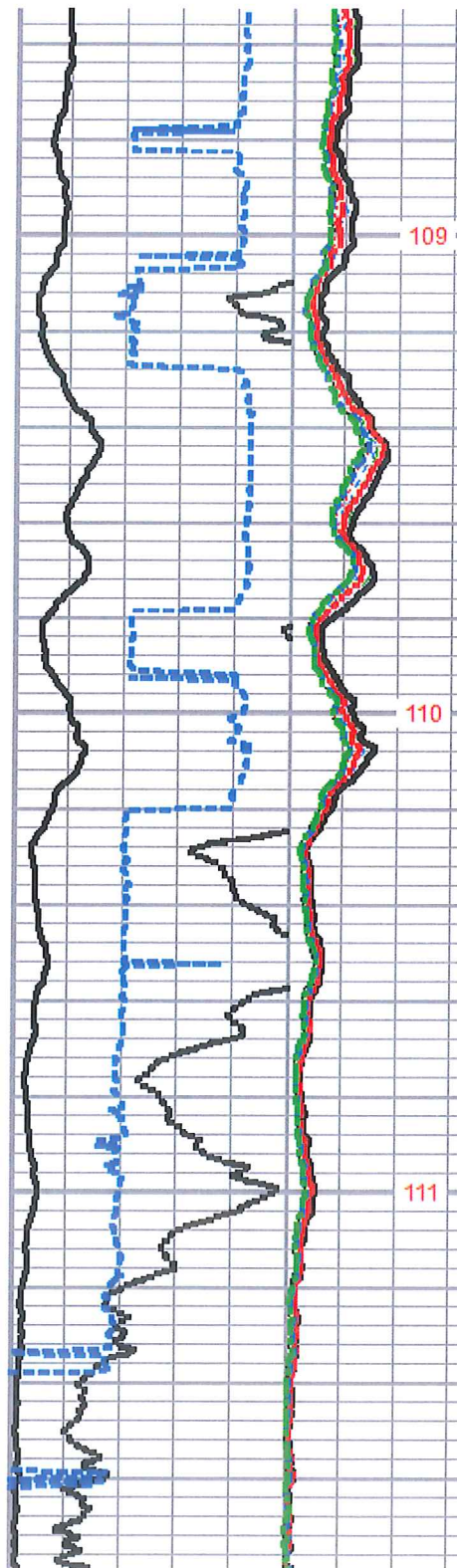




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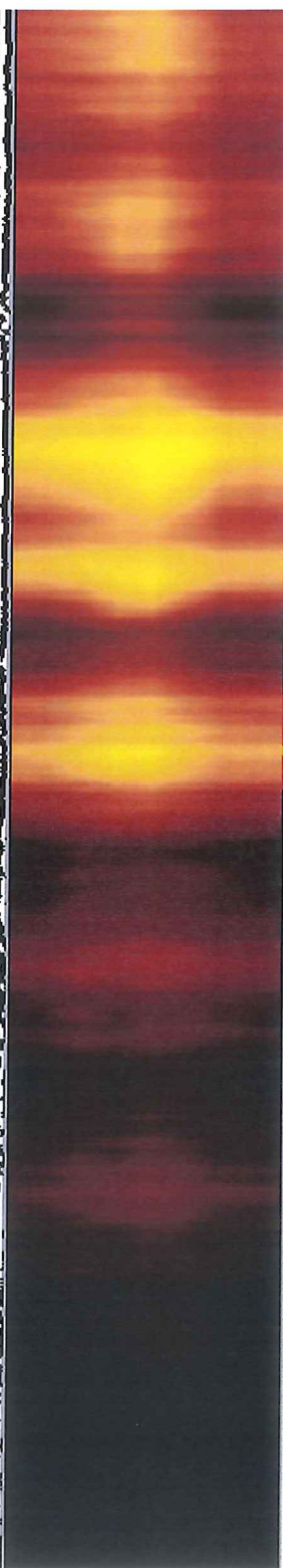
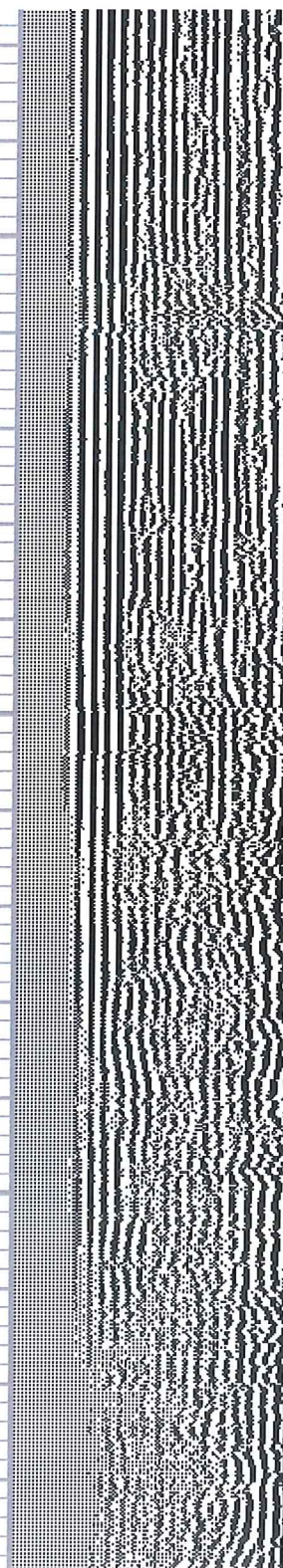
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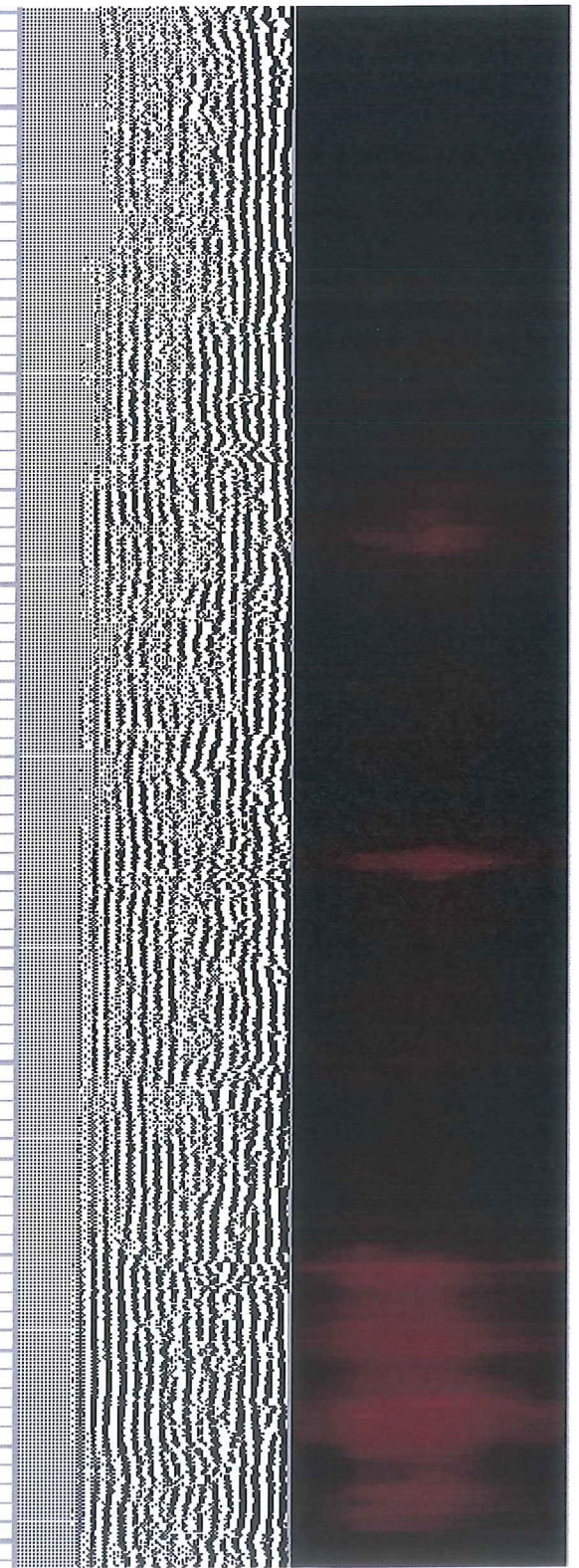
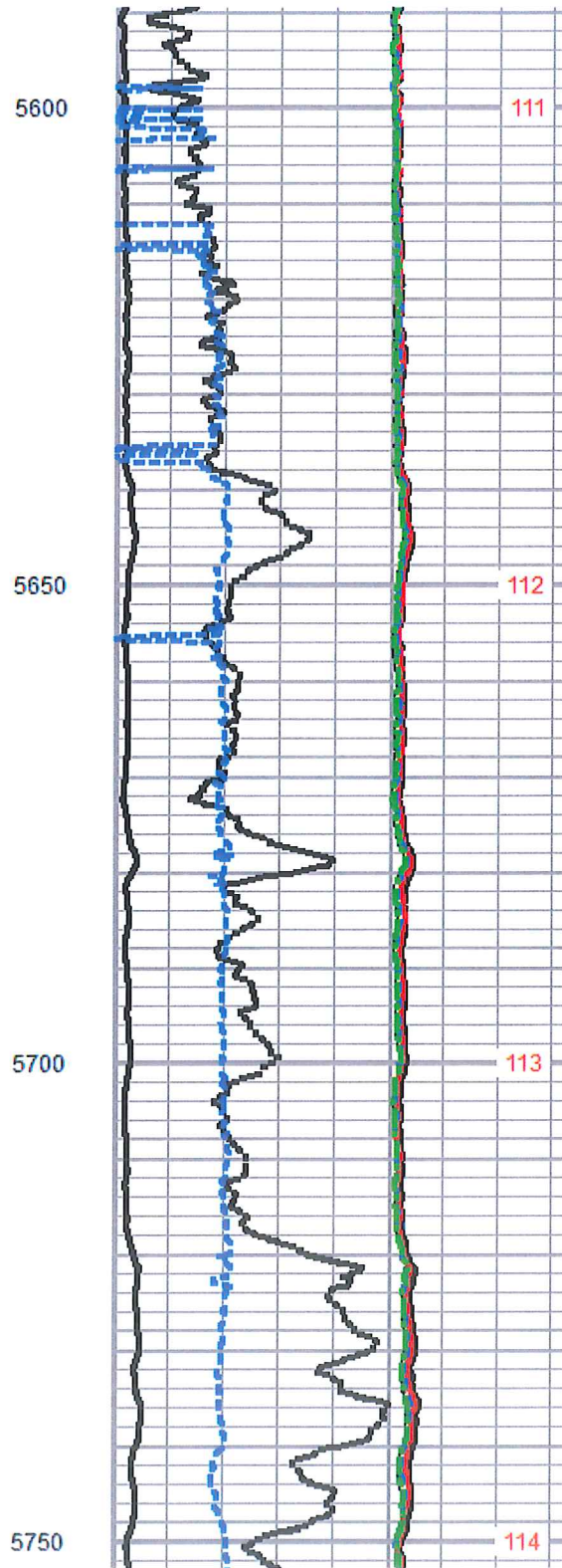
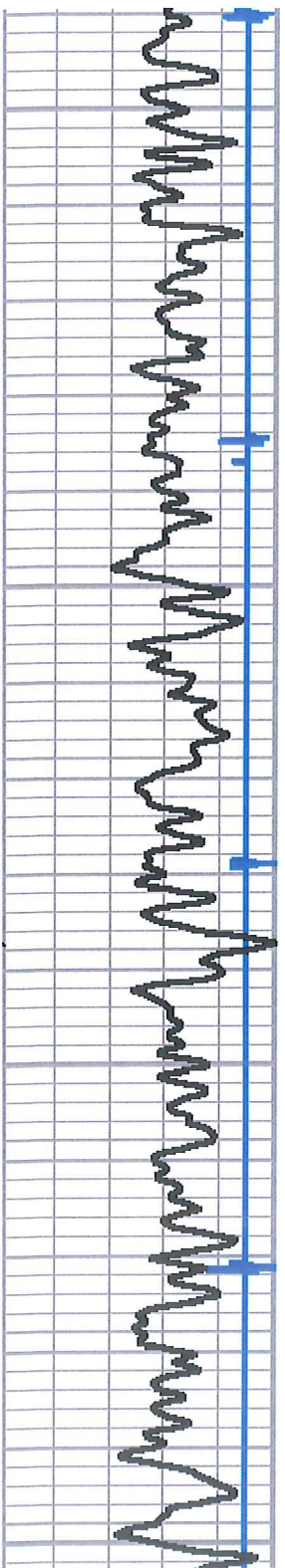


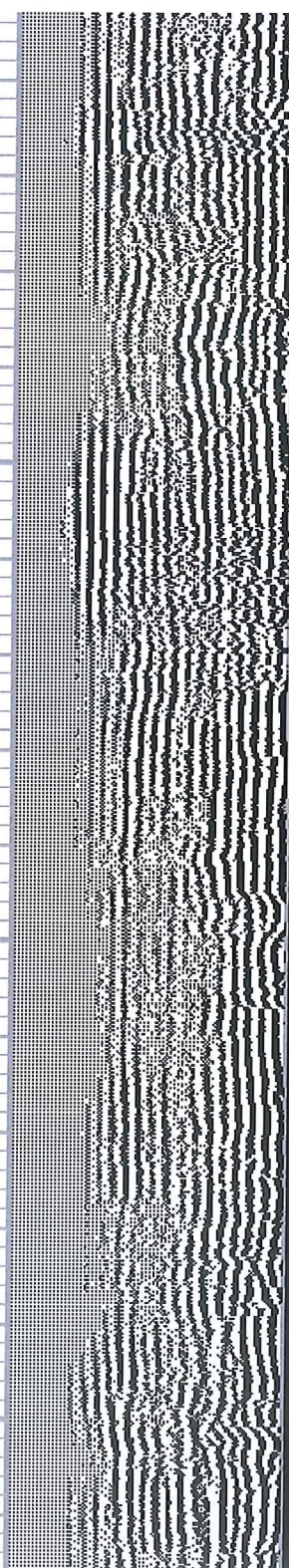
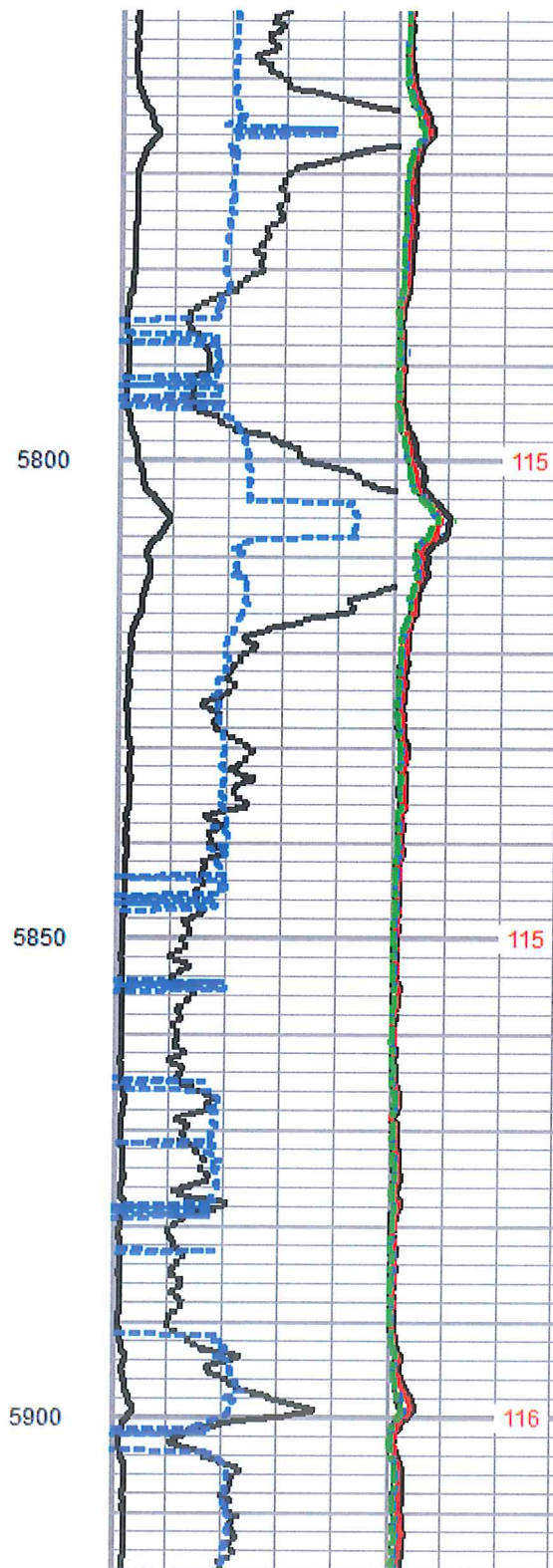
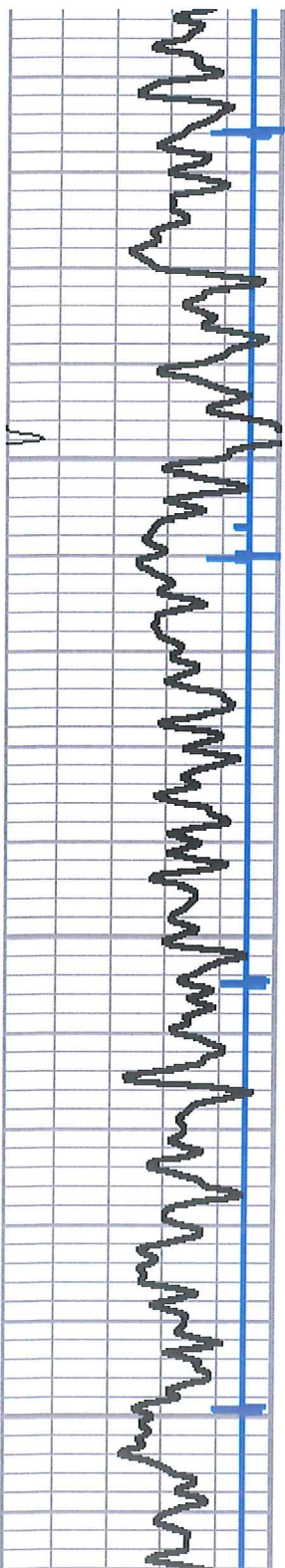
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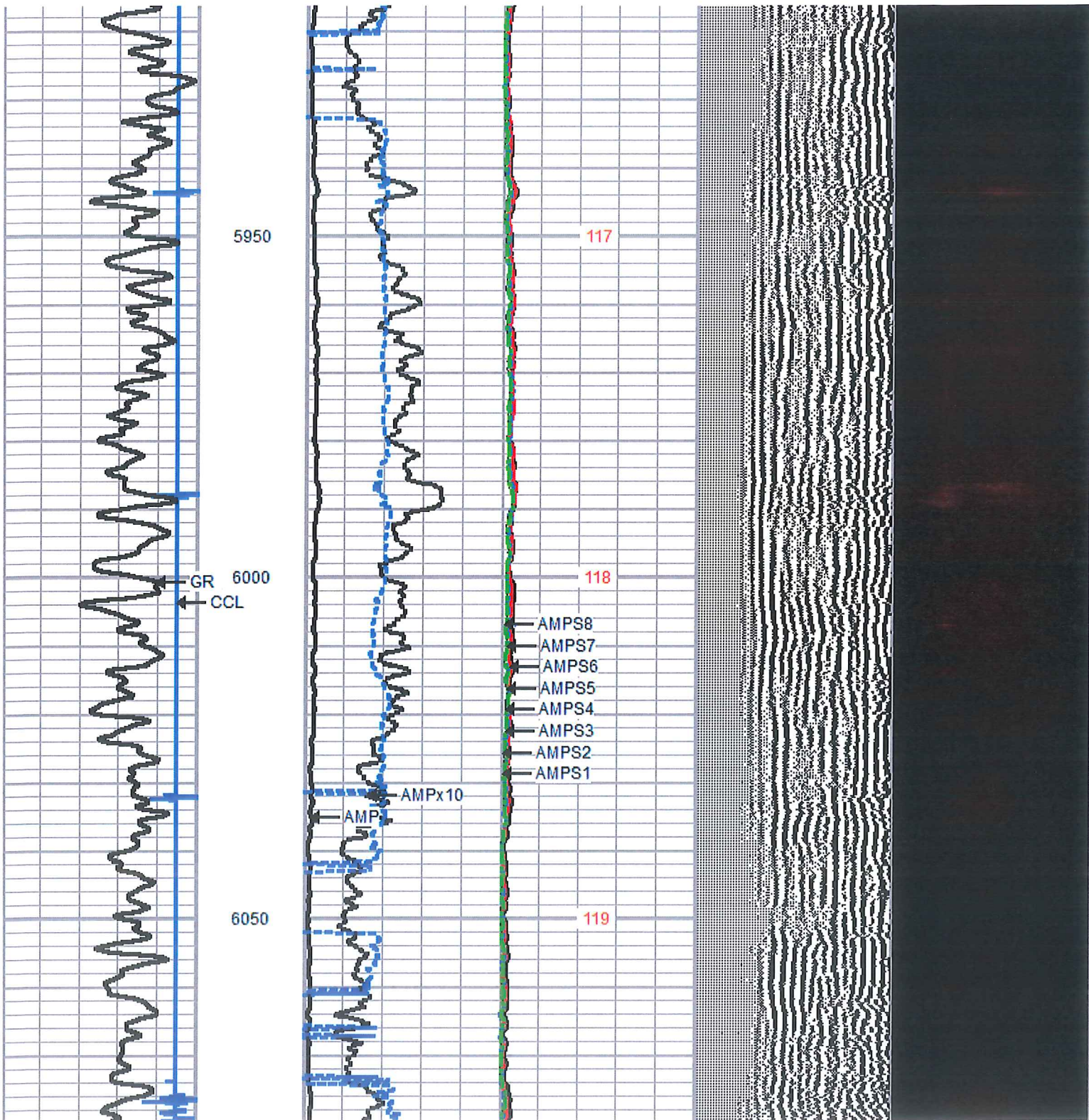
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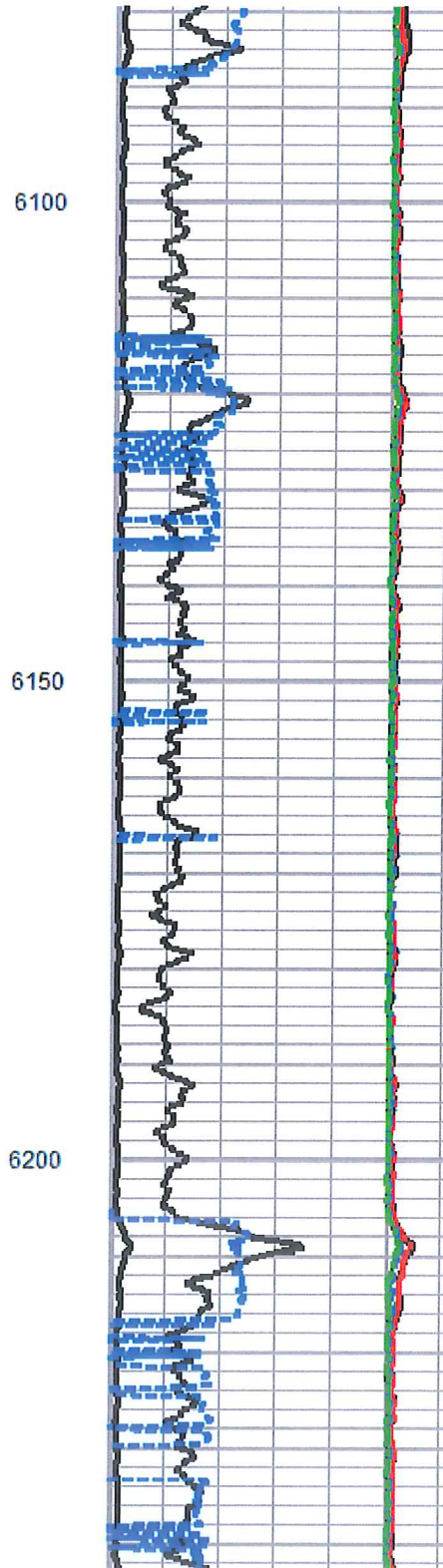
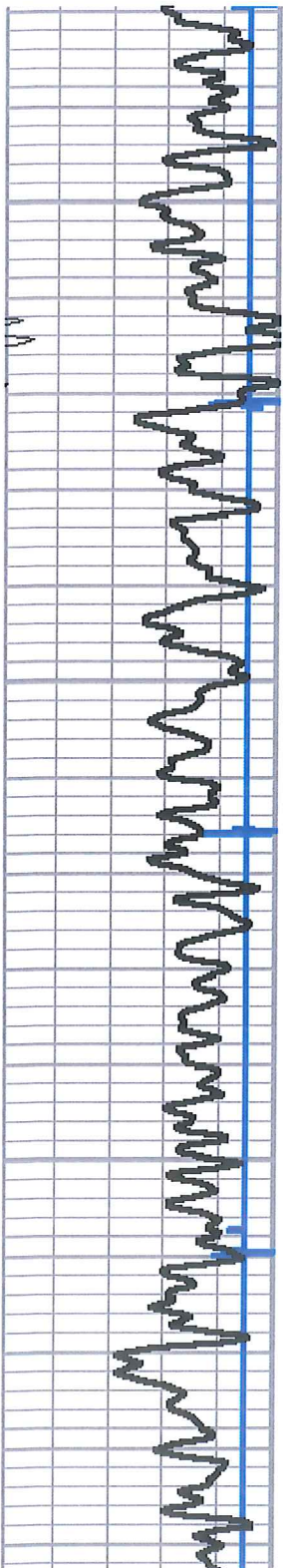
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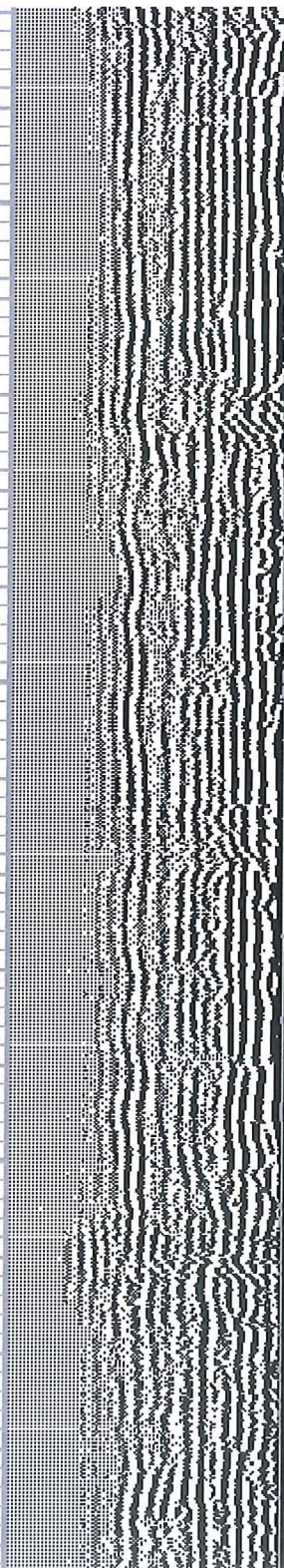
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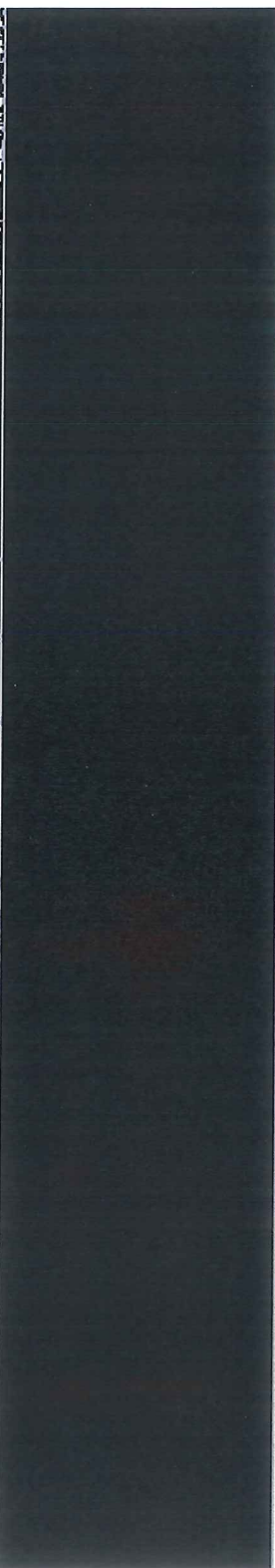
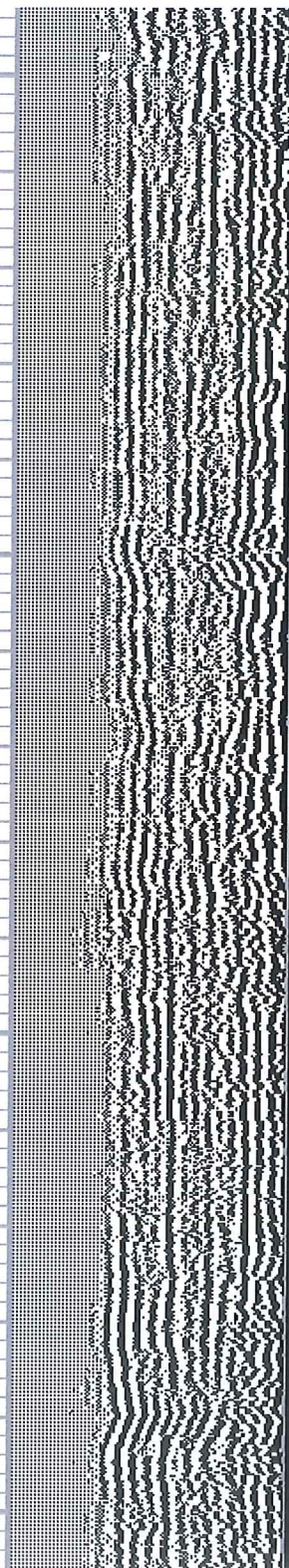
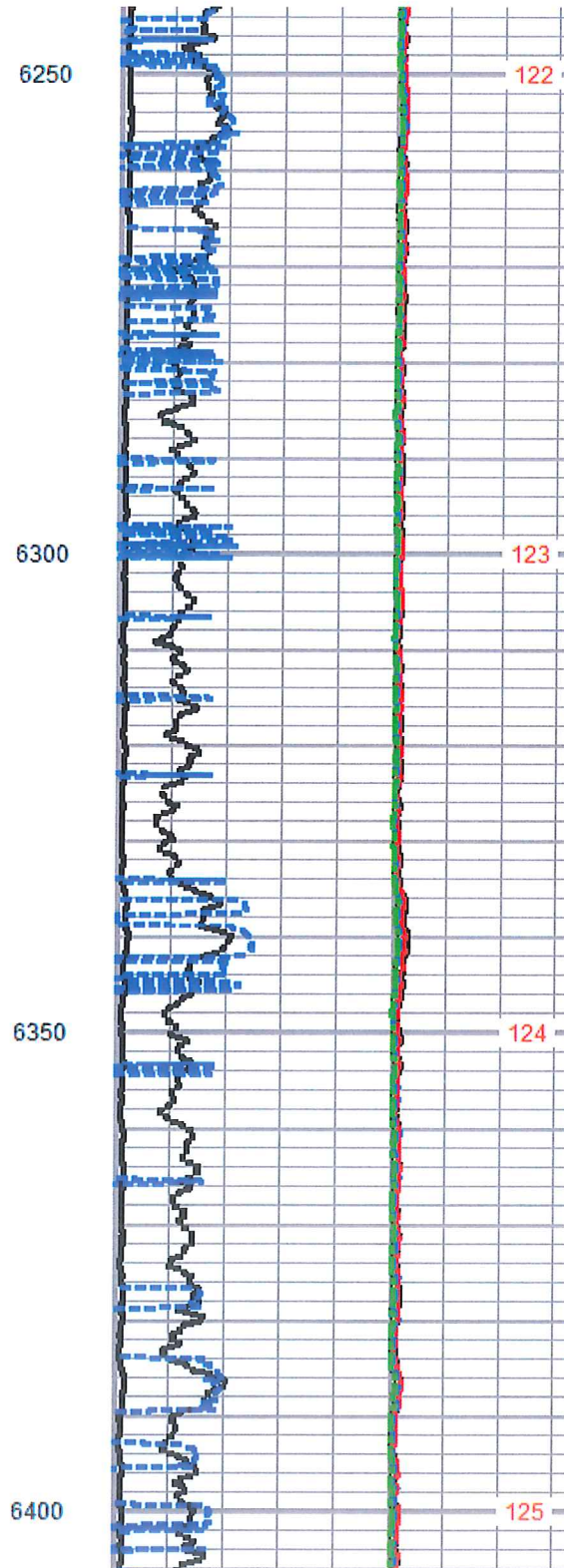
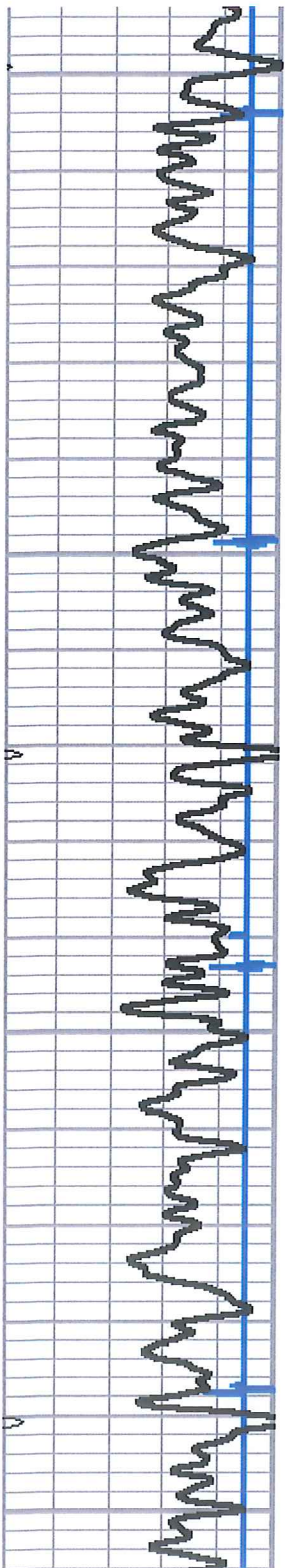
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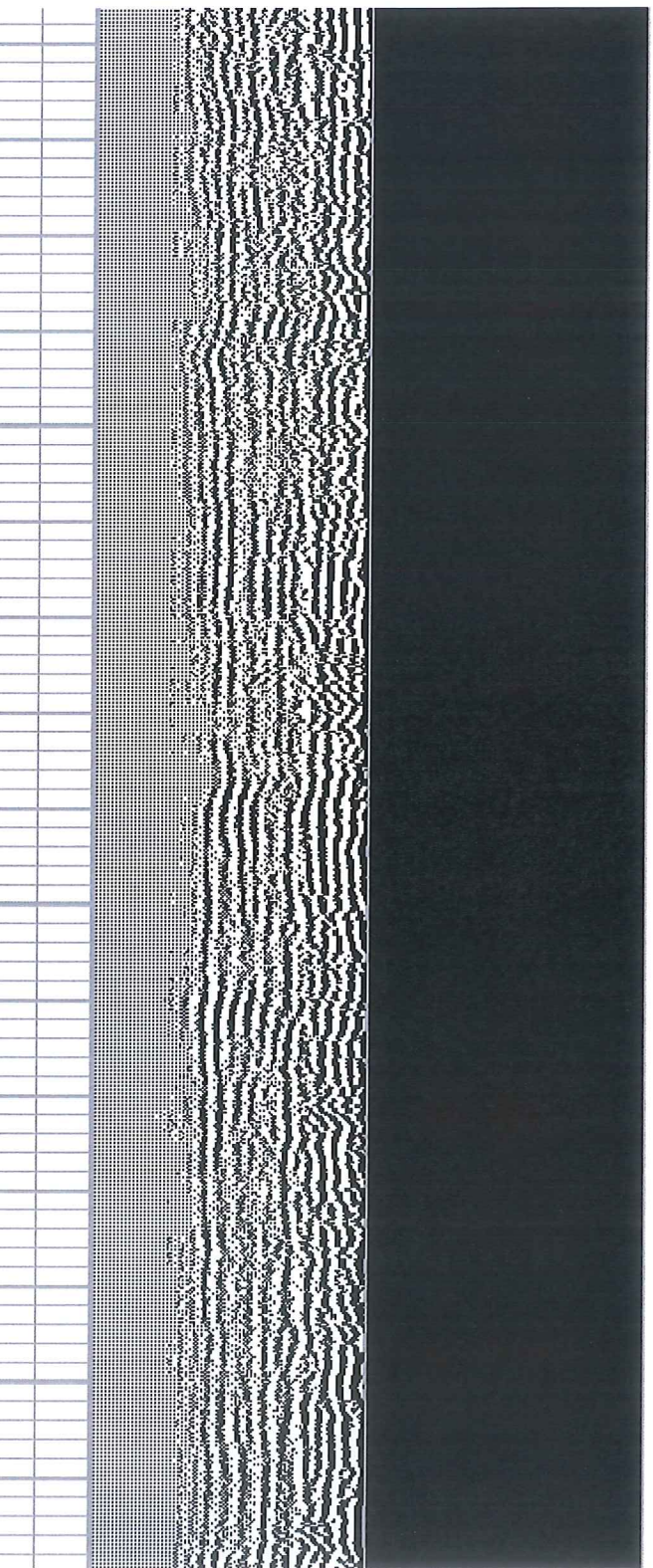
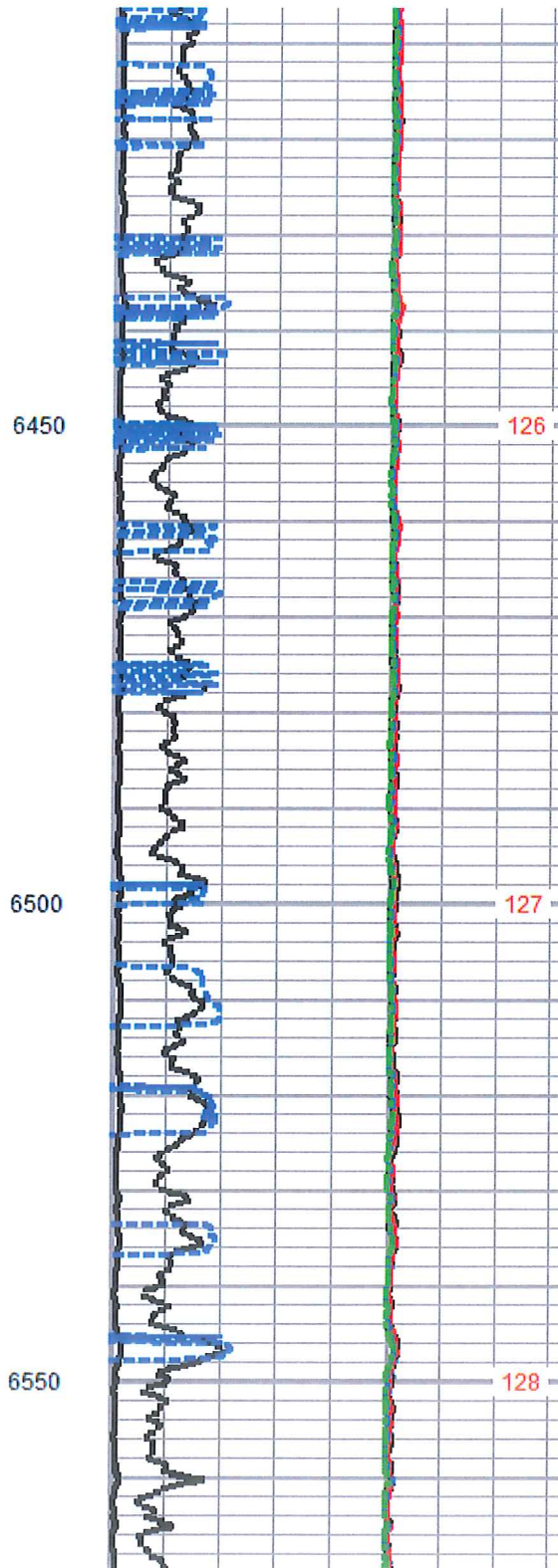
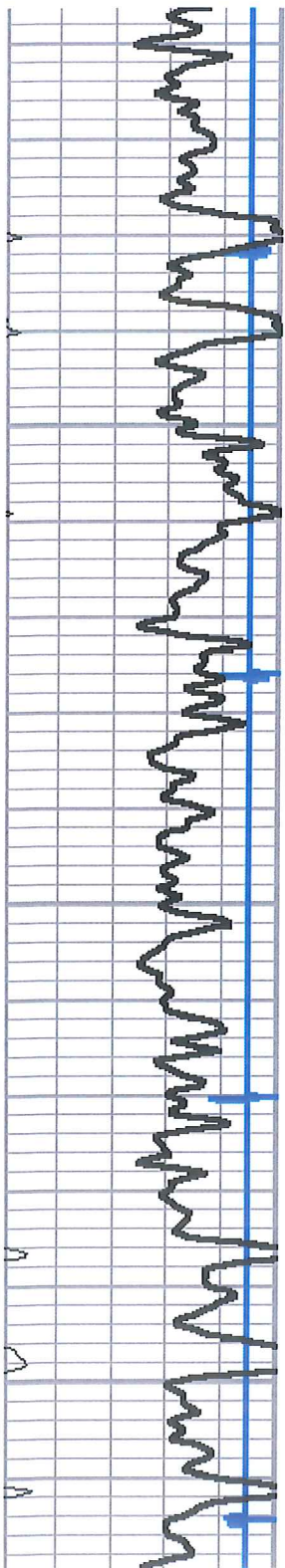
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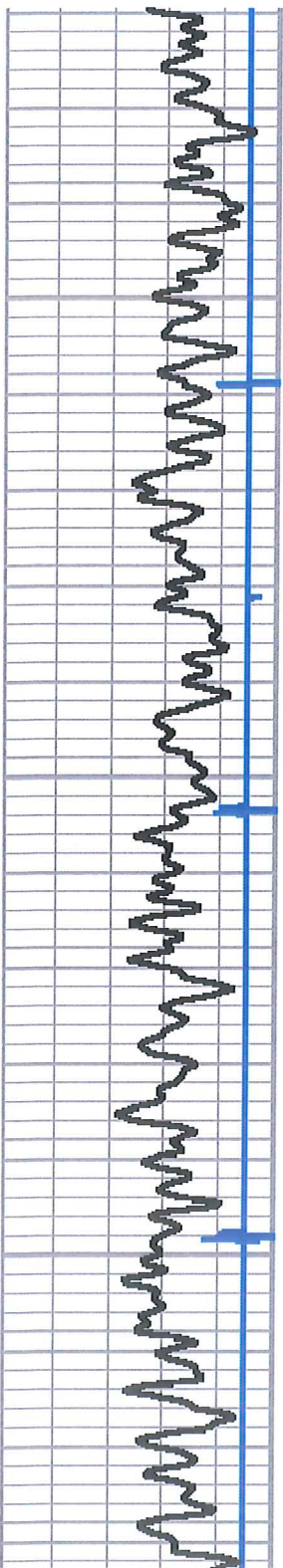
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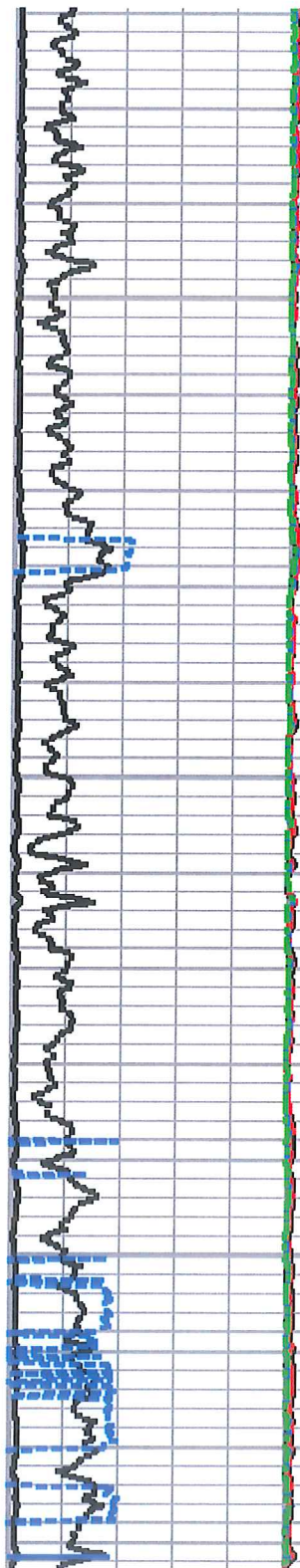




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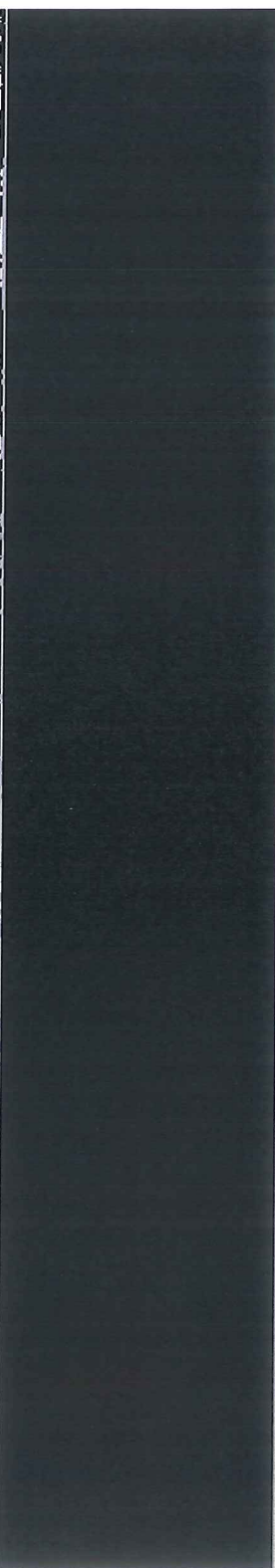
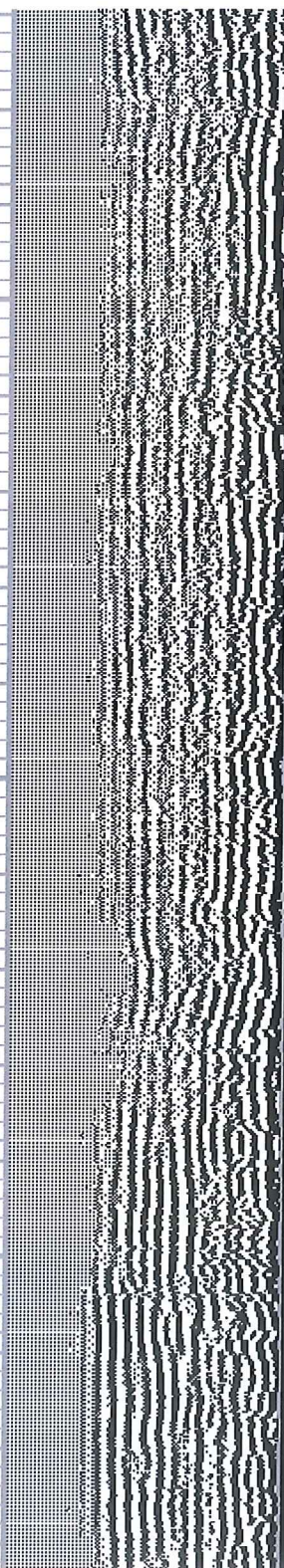
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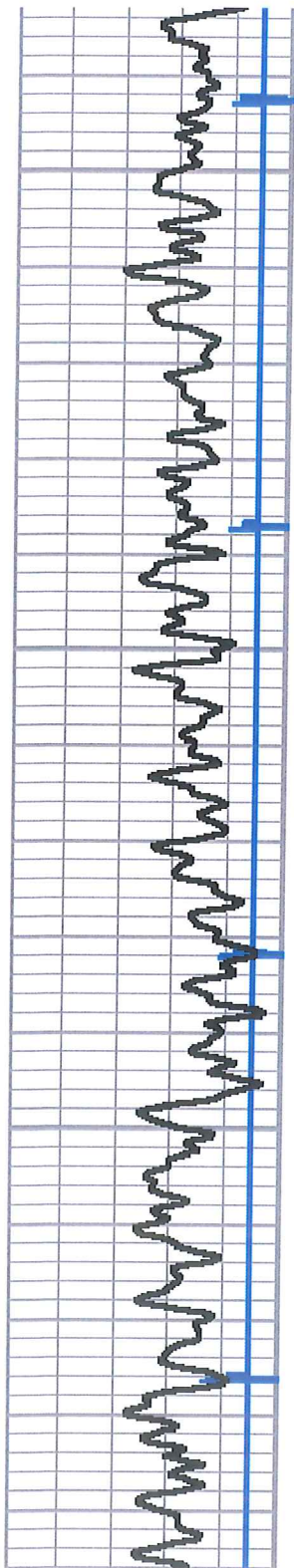


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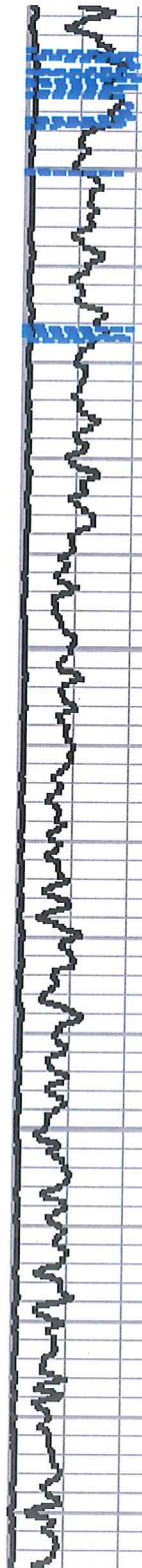




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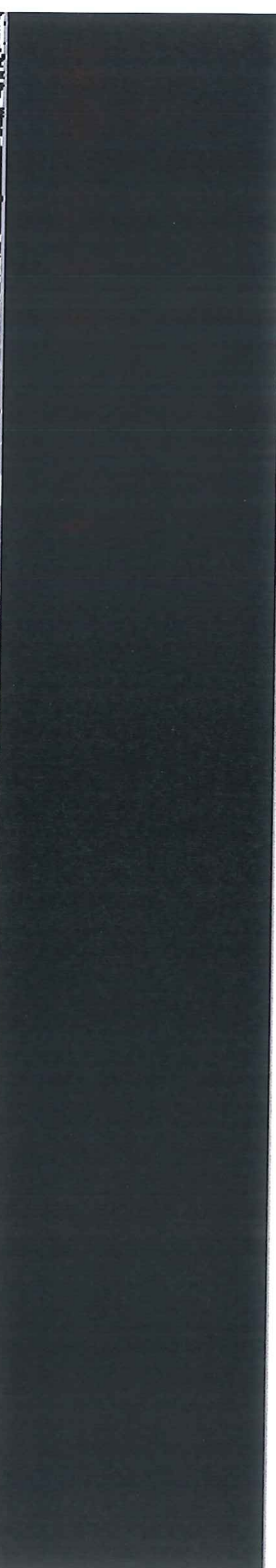
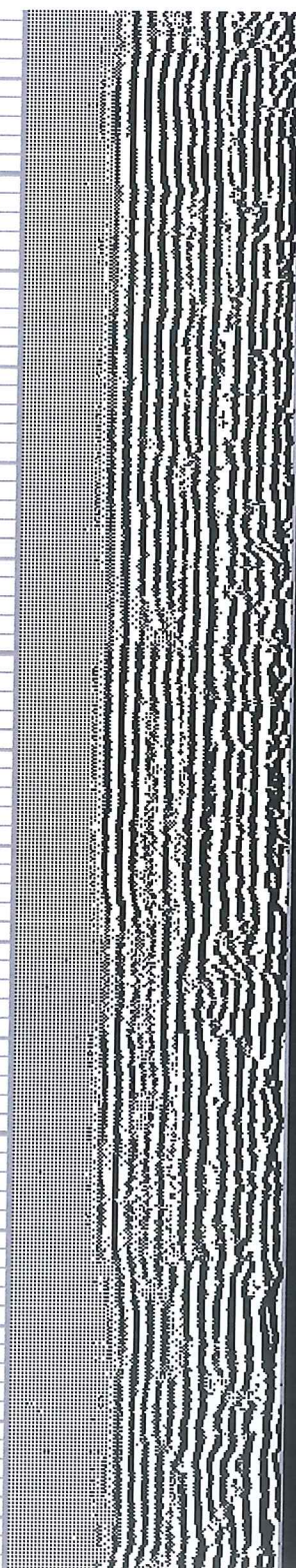
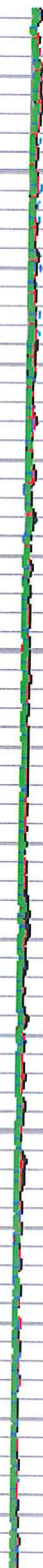
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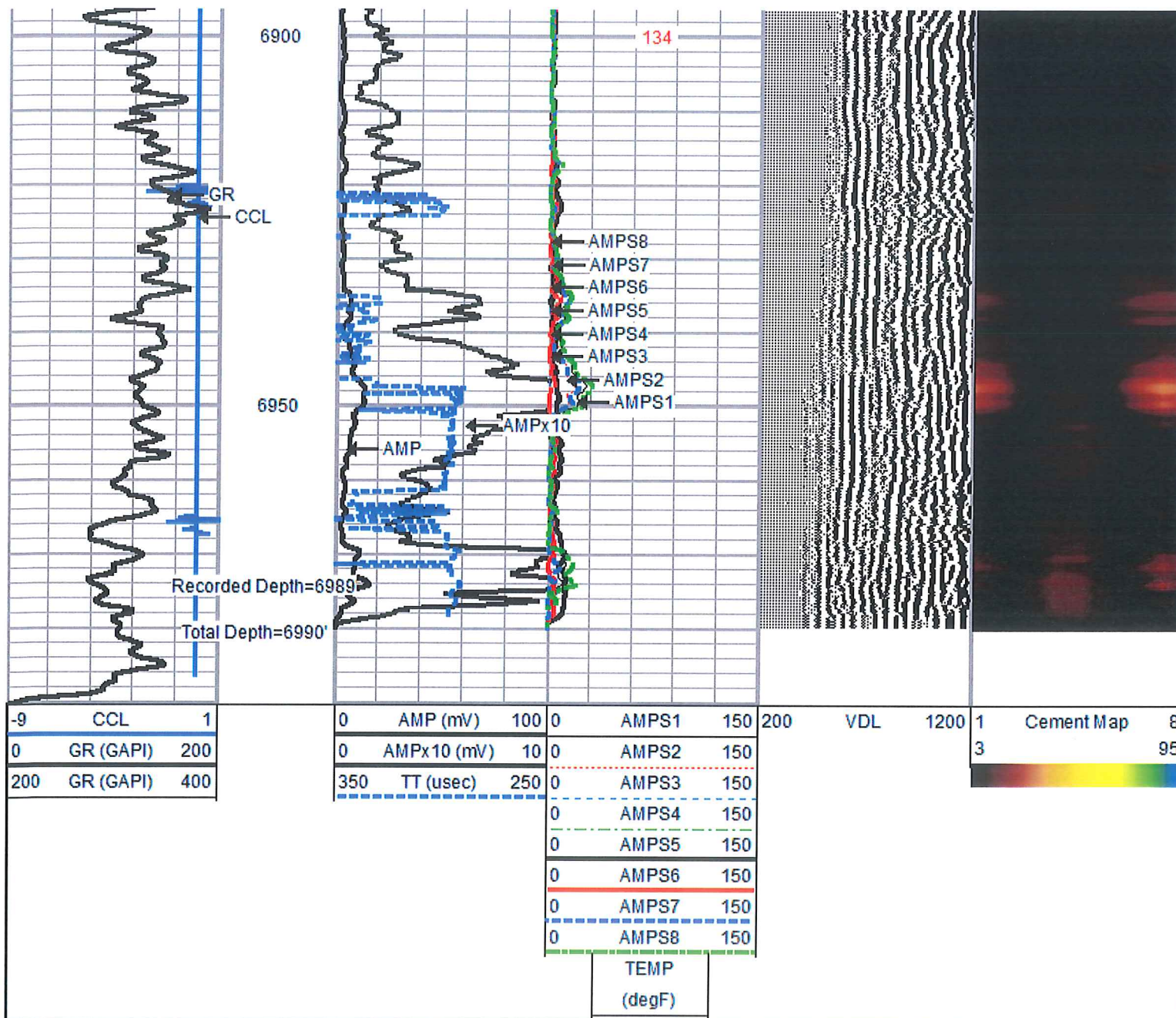


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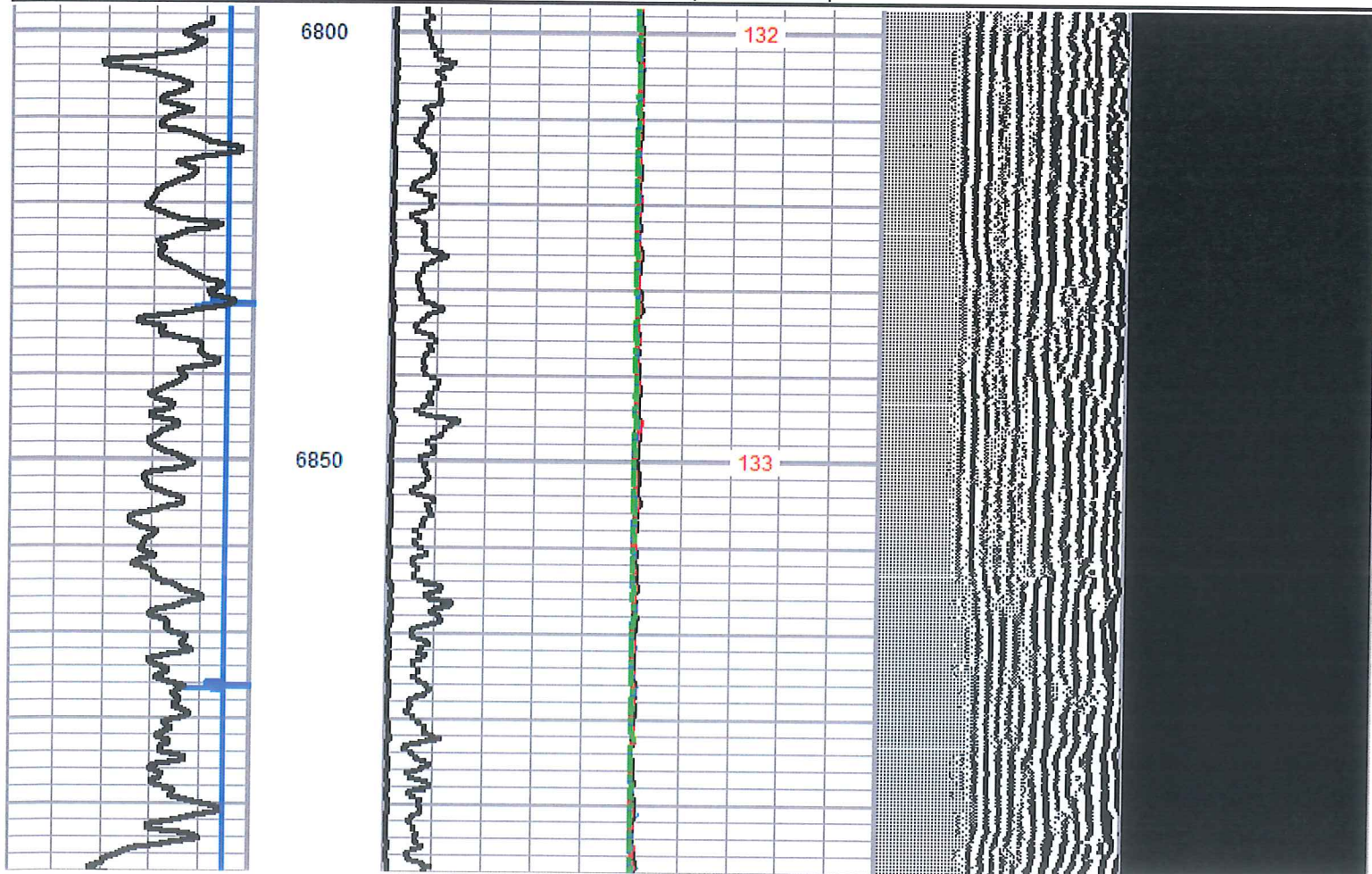


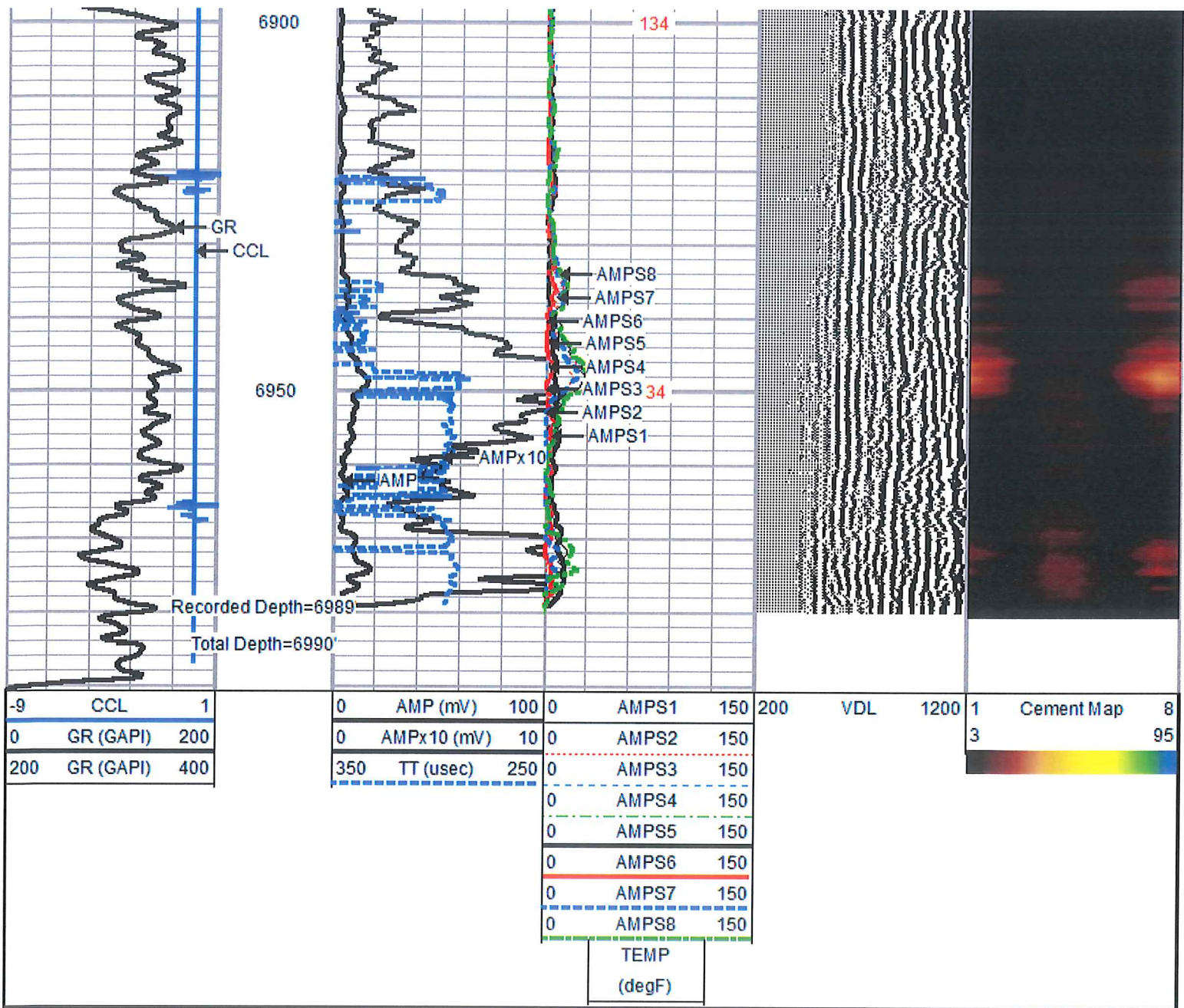


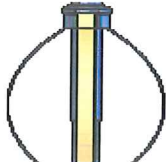
REPEAT SECTION

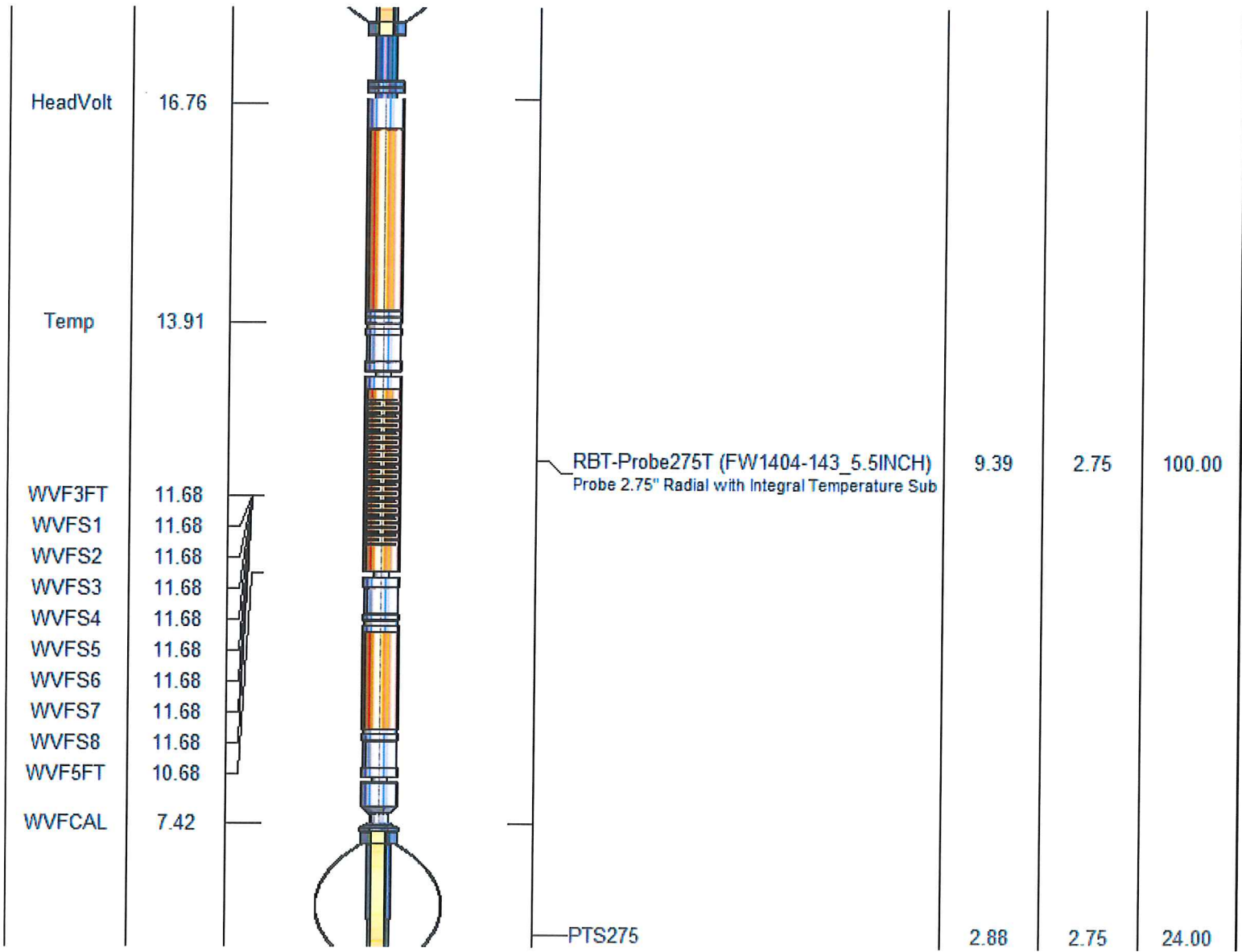
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 Presentation Format: scbl02
 Dataset Creation: Sat Sep 27 04:06:32 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

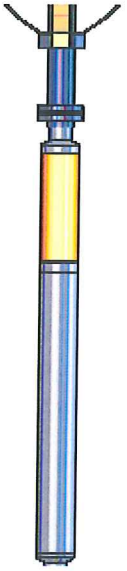
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0	GR (GAPI)	200	0	AMPx10 (mV)	10	0	AMPS2	150				3		95
200	GR (GAPI)	400	350	TT (usec)	250	0	AMPS3	150						
						0	AMPS4	150						
						0	AMPS5	150						
						0	AMPS6	150						
						0	AMPS7	150						
						0	AMPS8	150						
							TEMP							
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





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.88	2.75	24.00



CCL	3.63		GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.54	2.75	30.00
GR	0.89					
Dataset: hayden 2h.db: field/well/run1/pass13 Total Length: 19.70 ft Total Weight: 178.00 lb O.D. 2.75 in						