



**RADIAL BOND GAMMA RAY  
CCL-TEMP**

**Company ANTERO RESOURCES**  
**Well DEANO 2H**  
**Field CANTON**  
**County DODDRIDGE**  
**State WV.** **Country USA.**

**Location:** **API # : 47017064980000**

**Other Services**

SEC	TWP	RGE	Elevation
Permanent Datum	G.L.	Elevation	1001'
Log Measured From	K.B.18'	D.F.	1018'
Drilling Measured From	K.B.18'	G.L.	1001'

**Company ANTERO RESOURCES**  
**Well DEANO 2H**  
**Field CANTON**  
**County DODDRIDGE**  
**State WV.** **Country USA.**

Date	10-25-14			
Run Number	ONE			
Depth Driller				
Depth Logger	7120'			
Bottom Logged Interval	7119'			
Top Log Interval	SURFACE			
Open Hole Size				
Type Fluid	WATER			
Density / Viscosity				
Max. Recorded Temp.	126			
Estimated Cement Top	5110			
Time Well Ready	8:00			
Time Logger on Bottom	8:50			
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	Wd/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	5.5"	231.BS.	SURFACE	15.372'
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: deano 2h.db  
Dataset Pathname: pass9  
Dataset Creation: Sat Oct 25 08:49:23 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 09:44:14 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.974	1.000	71.921	60.795	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: deano 2h.db  
 Dataset Pathname: pass9  
 Presentation Format: scbl02  
 Dataset Creation: Sat Oct 25 08:49:23 2014 by Log 7.0 B1  
 Charted by: Depth in Feet scaled 1:240

-3	CCL	3
0	GR (GAPI)	200
200	GR (GAPI)	400

0	AMP (mV)	100
0	AMPx10 (mV)	10
350	TT (usec)	250

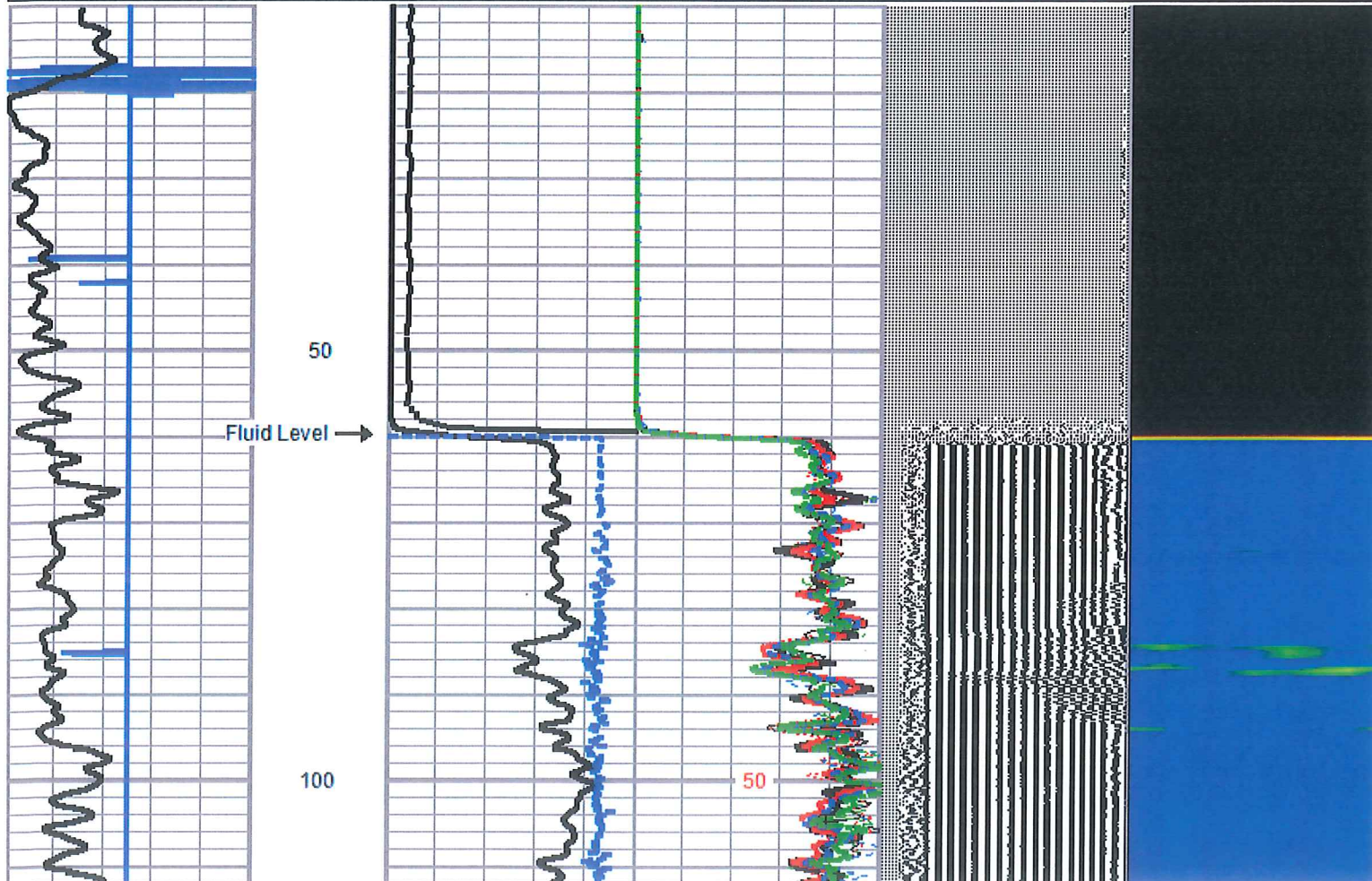
0	AMPS1	150
0	AMPS2	150
0	AMPS3	150
0	AMPS4	150
0	AMPS5	150
0	AMPS6	150
0	AMPS7	150
0	AMPS8	150

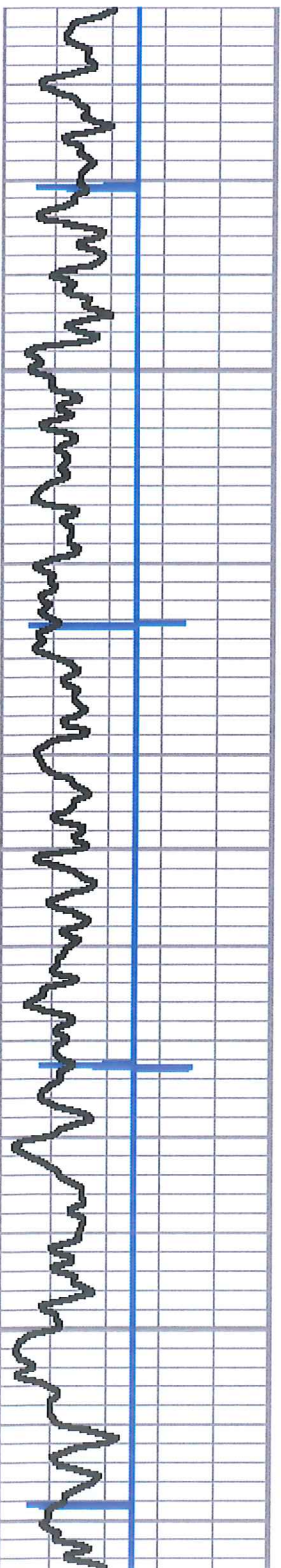
200 VDL 1200

1	Cement Map	8
3		95



TEMP  
(degF)

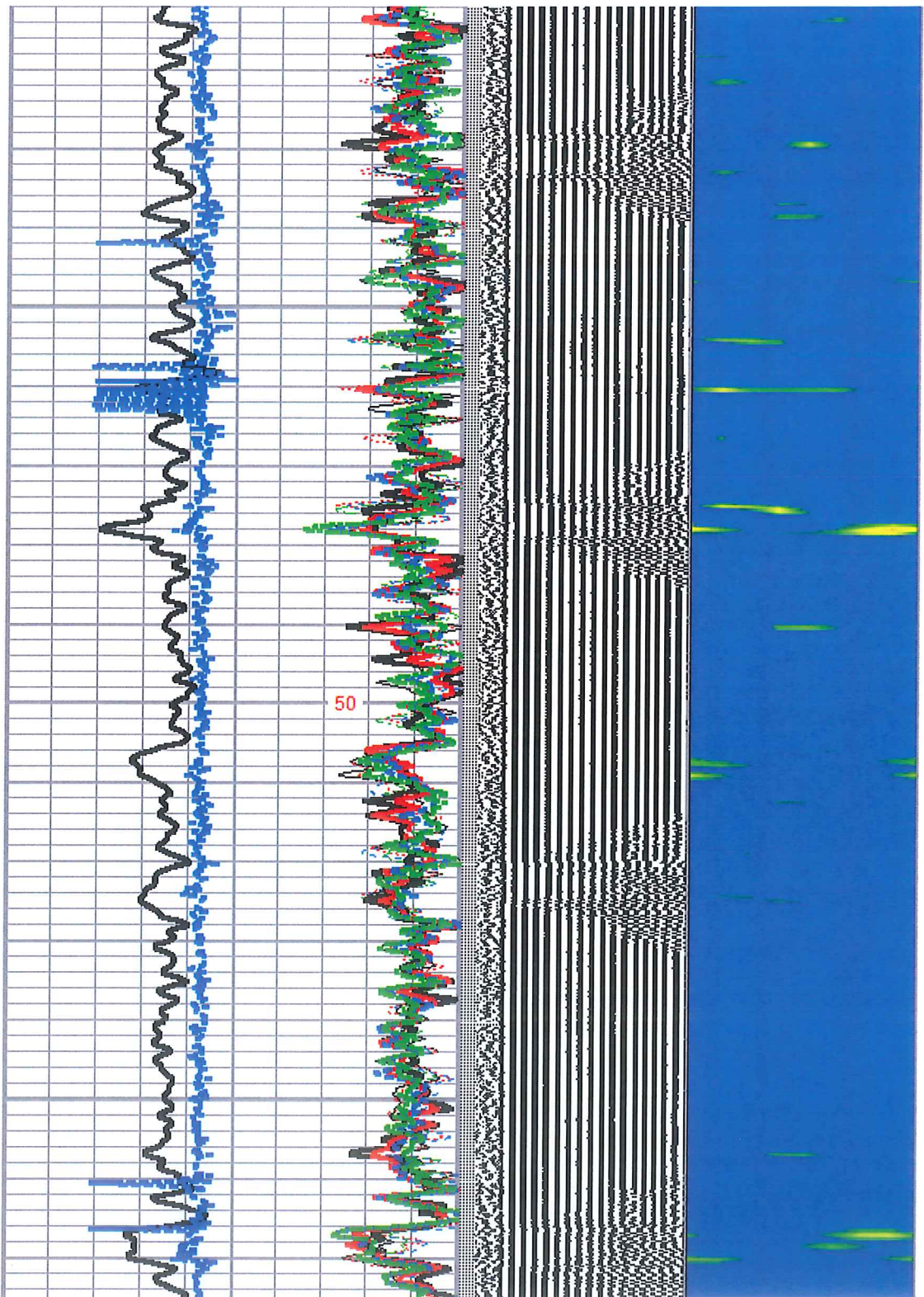


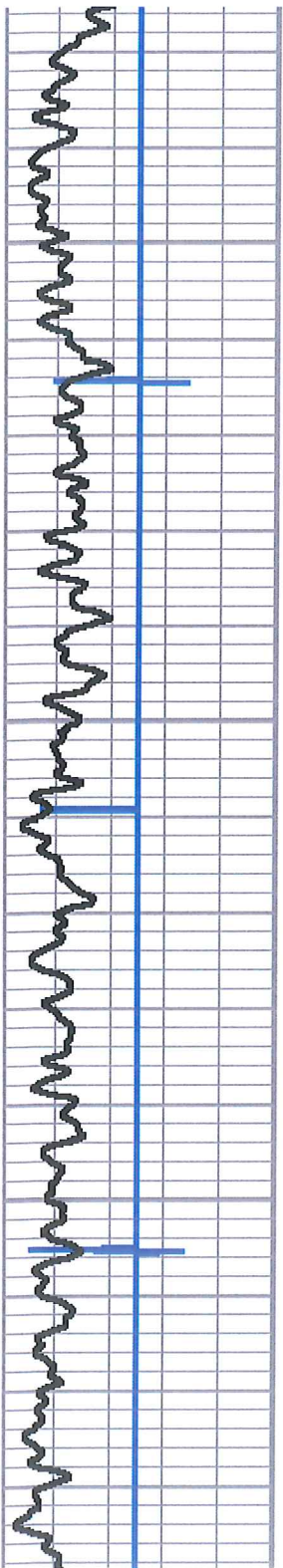


150

200

250

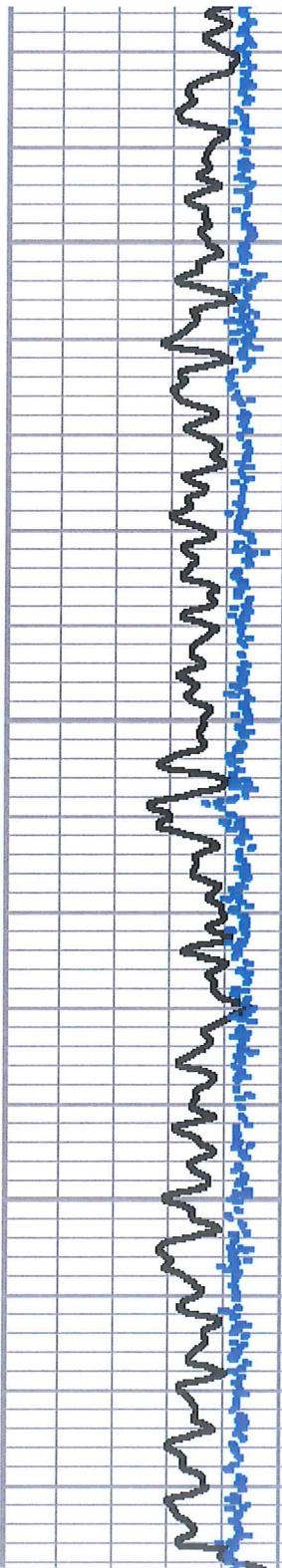




300

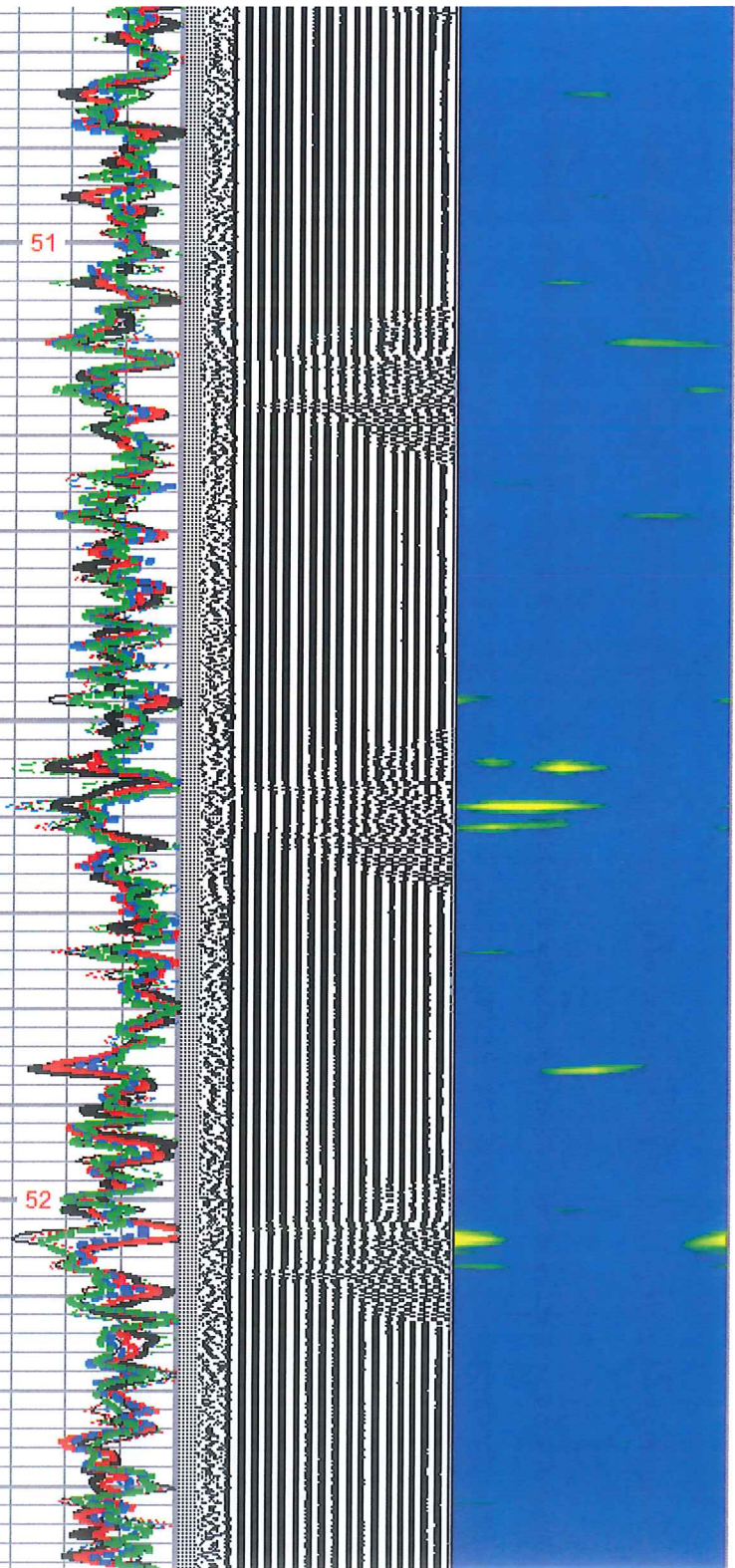
350

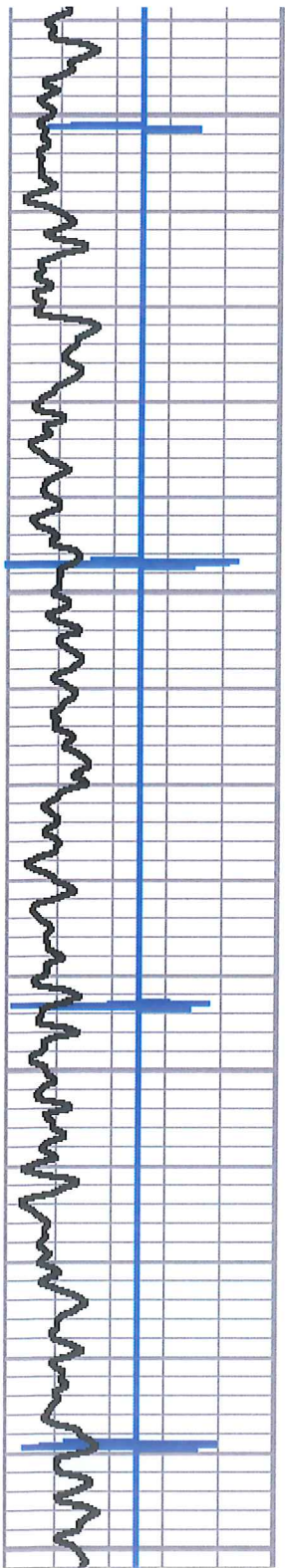
400



51

52



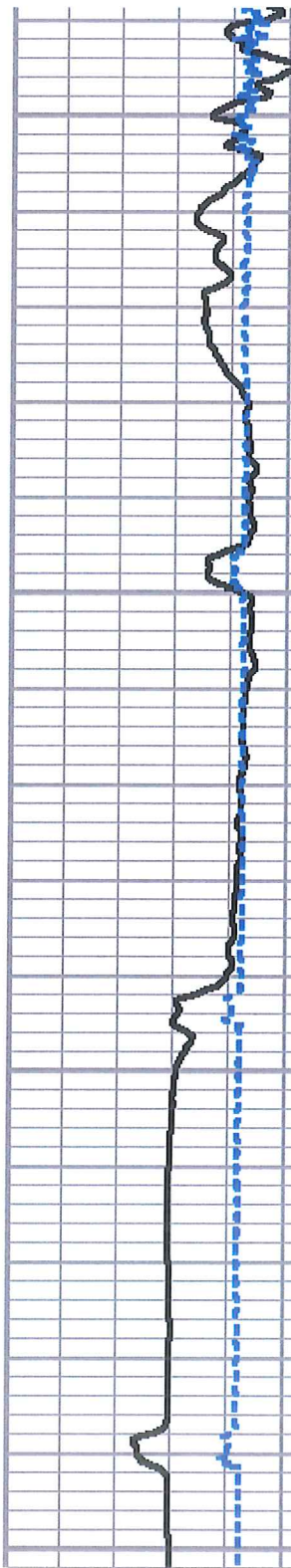


450

500

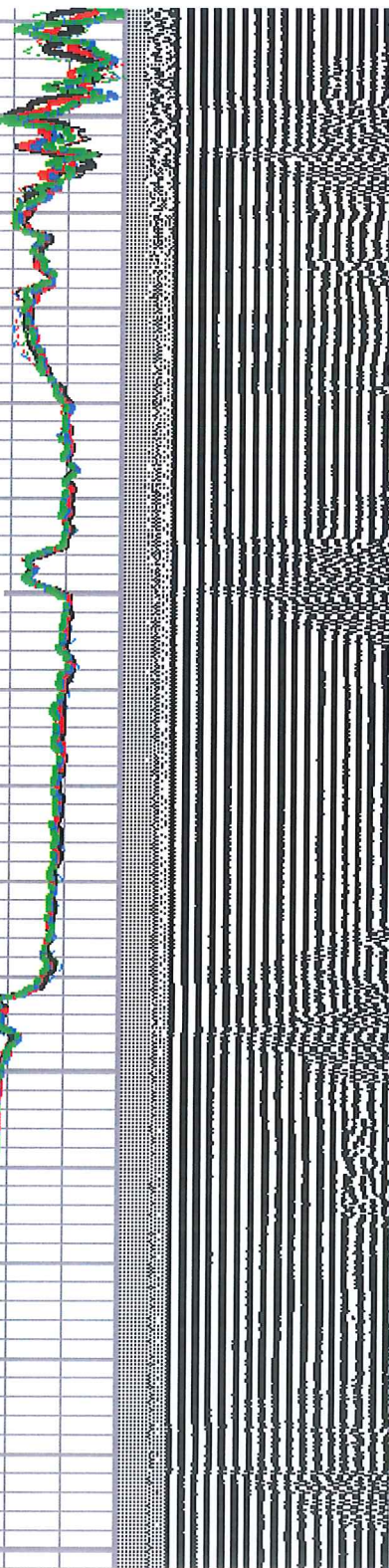
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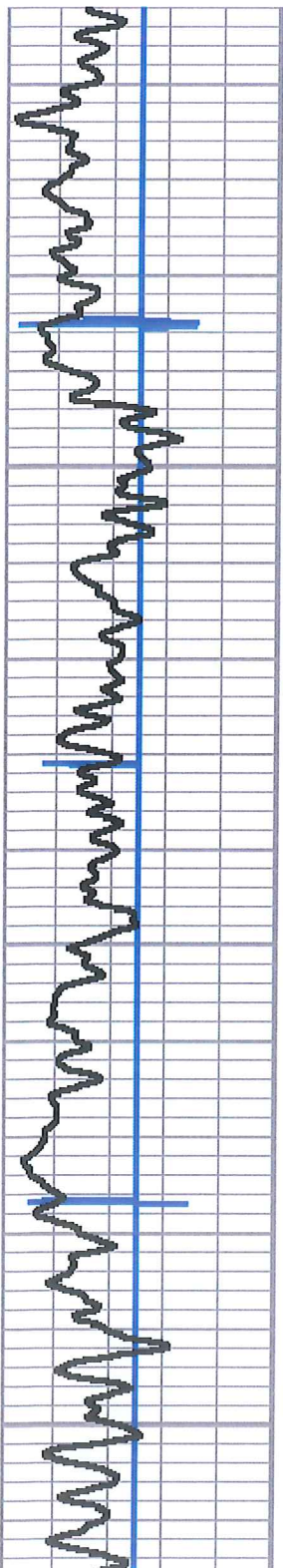
600



53

53

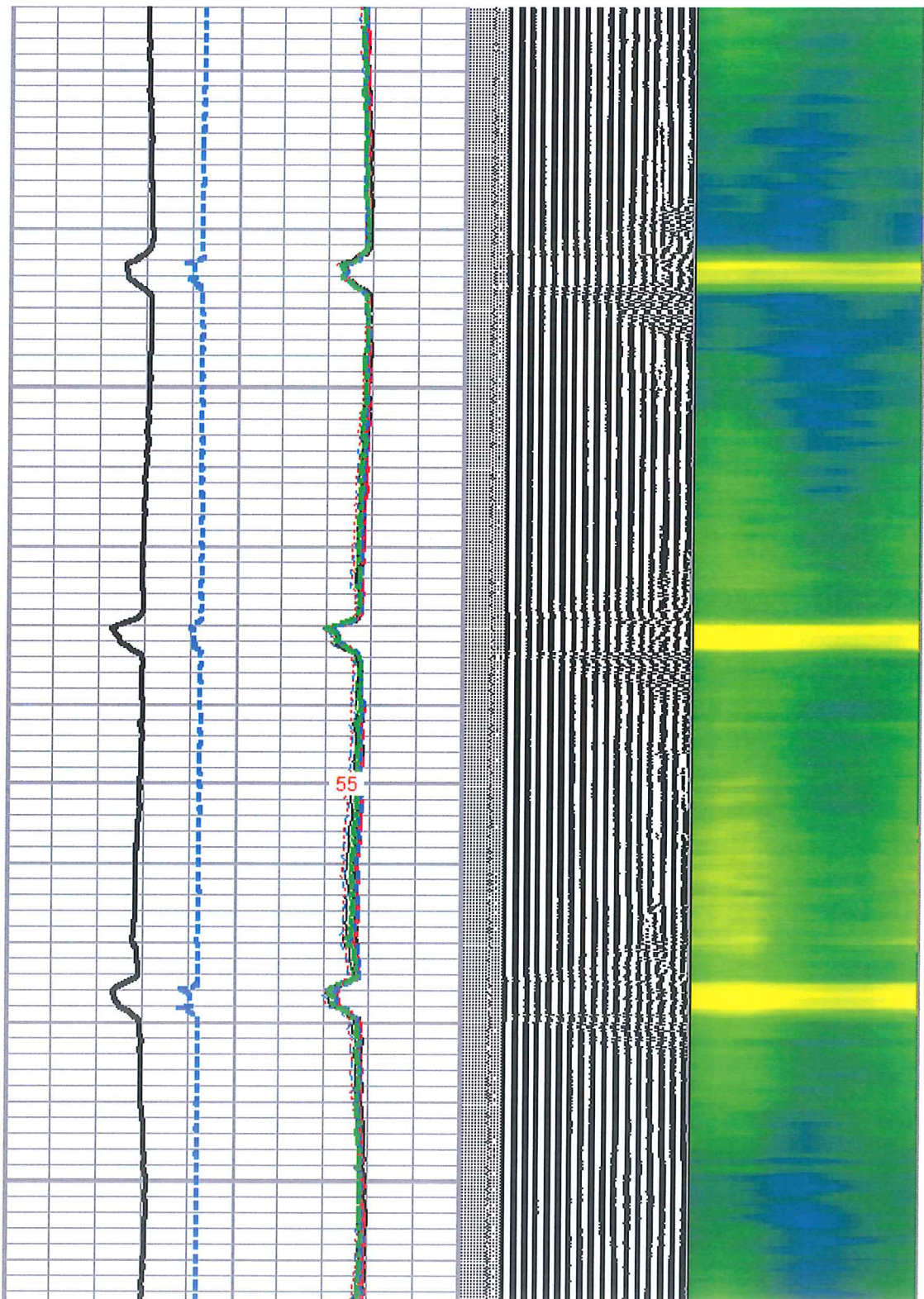




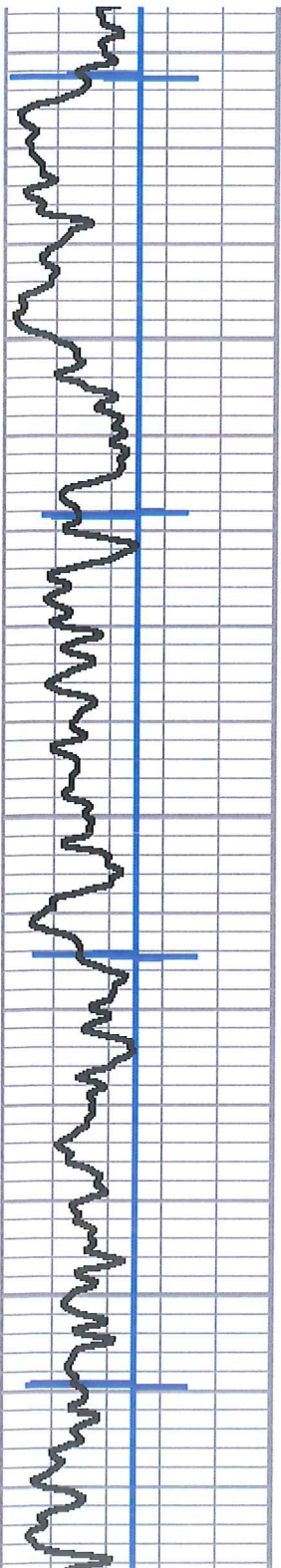
650

700

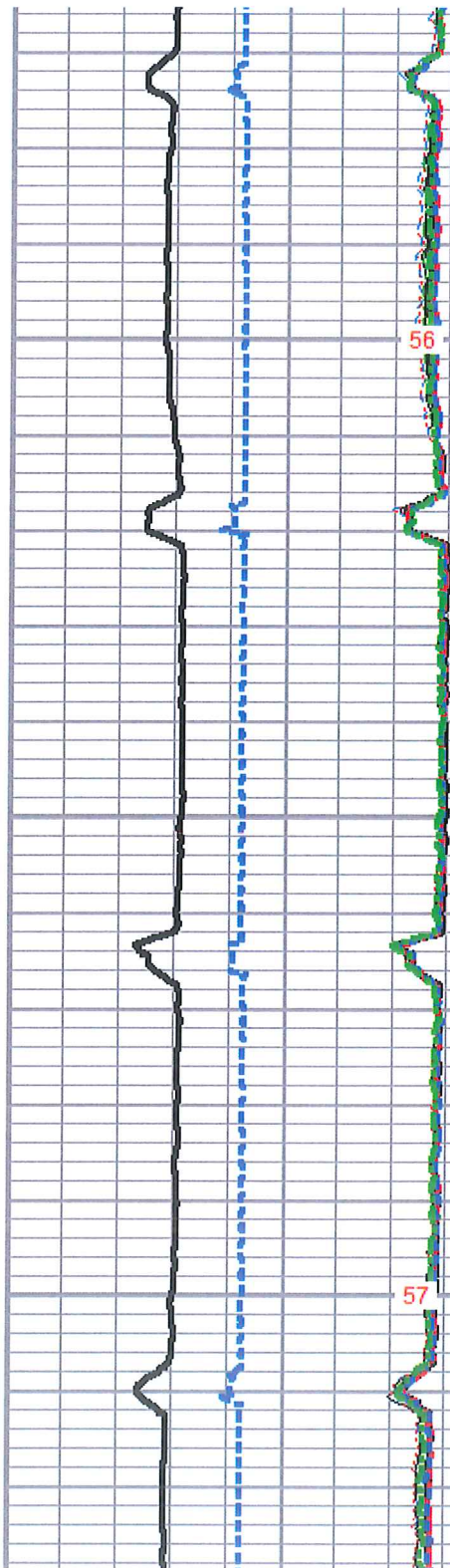
750





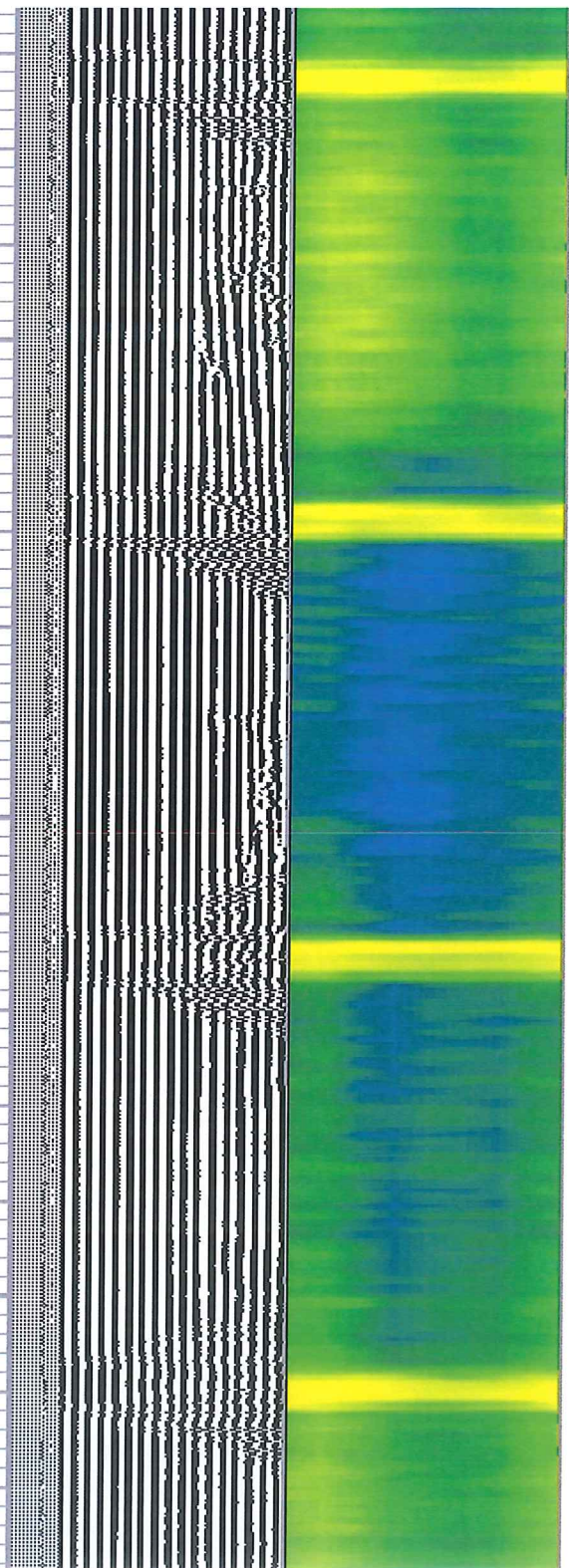


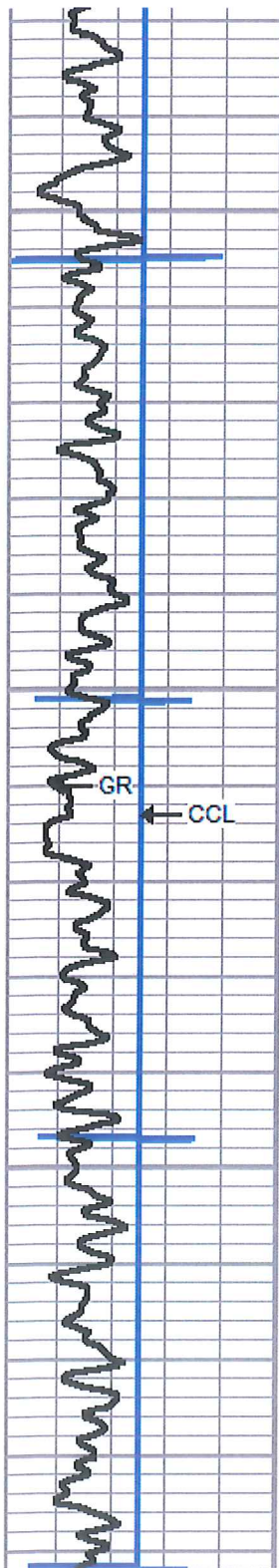
800  
850  
900



56

57

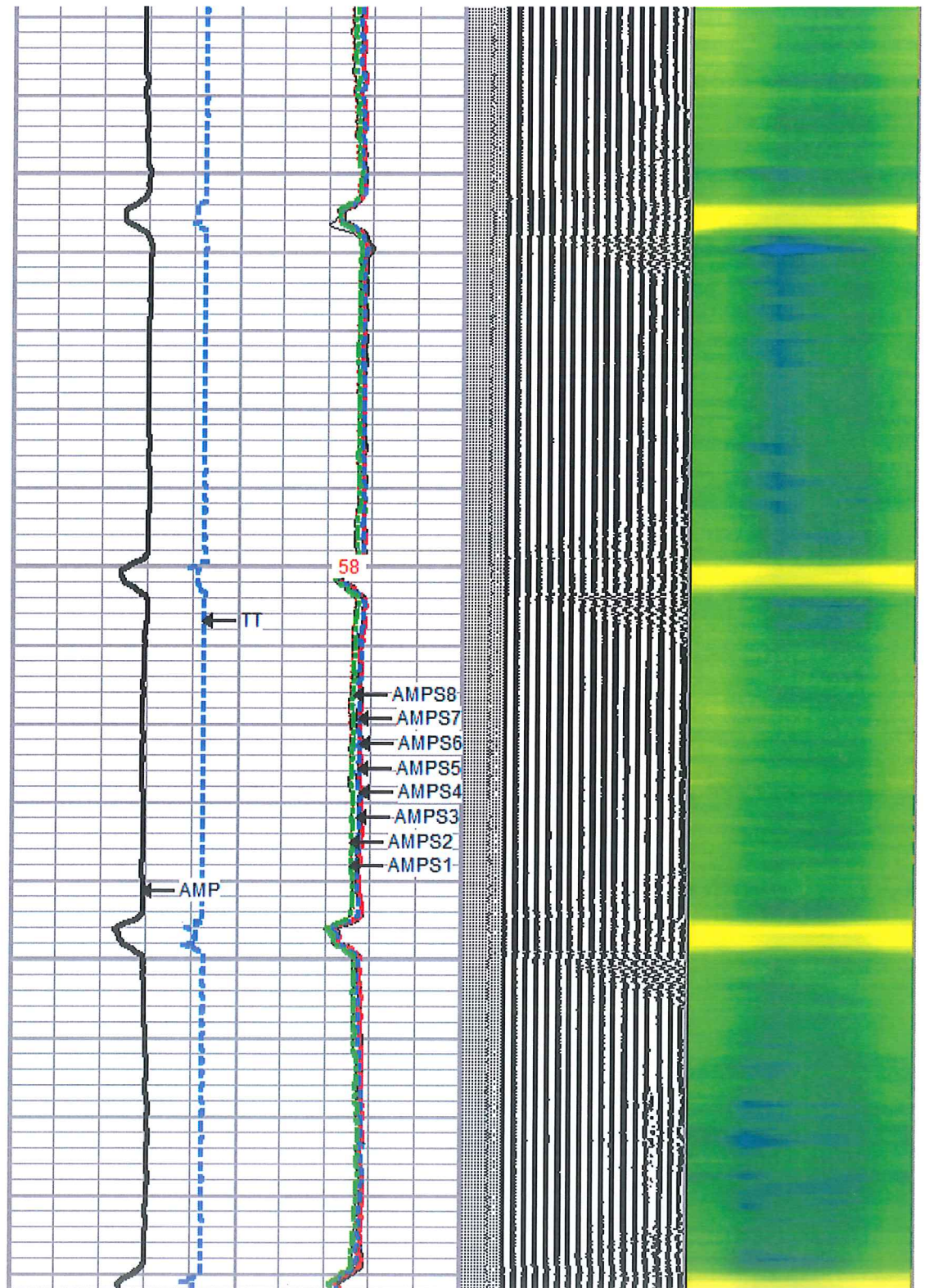


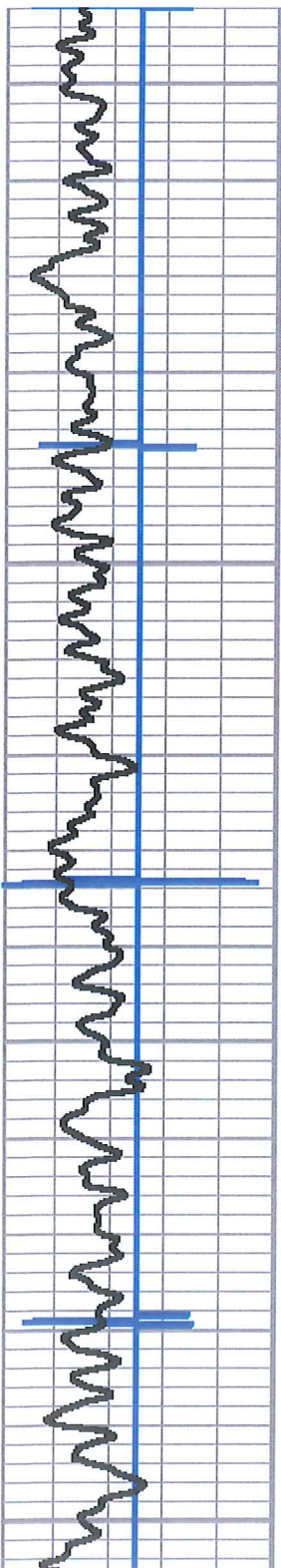


950

1000

1050



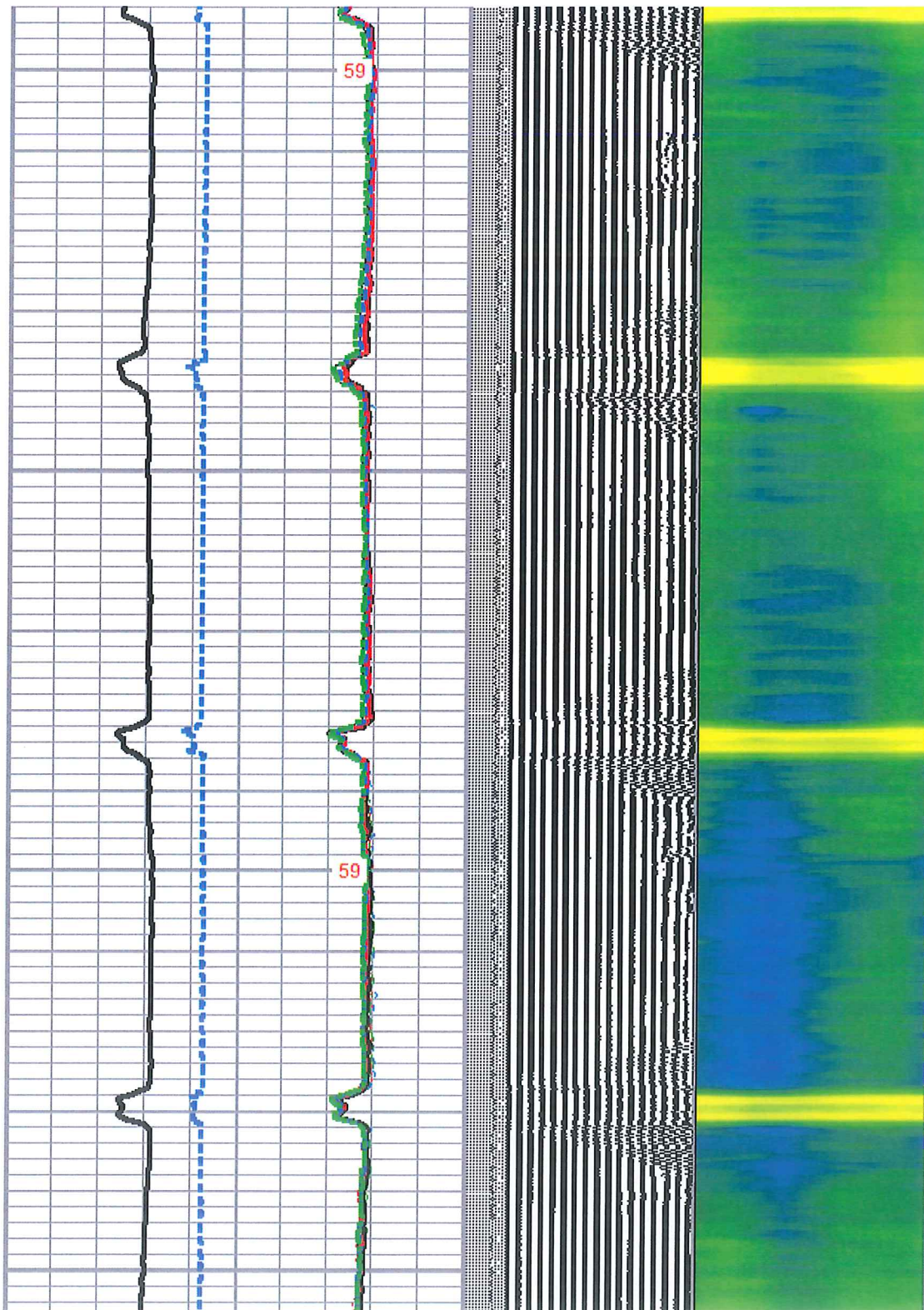


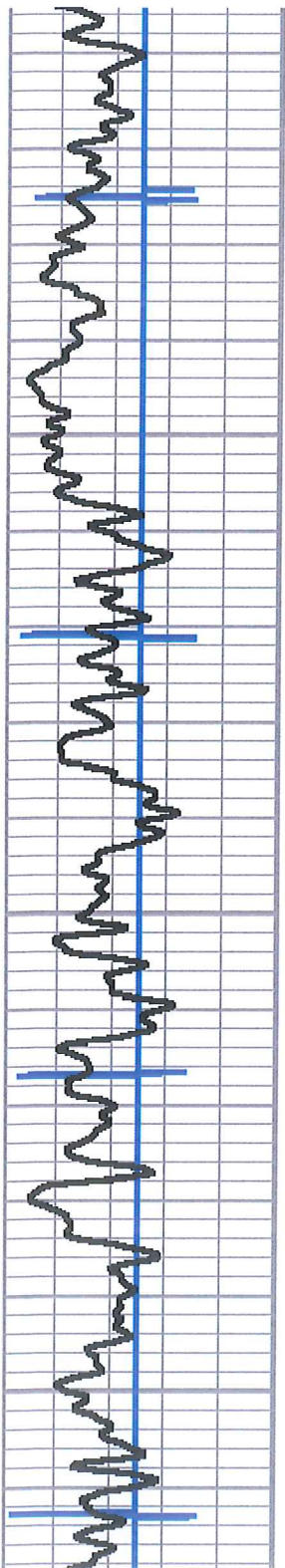
1100

1150

1200

1250

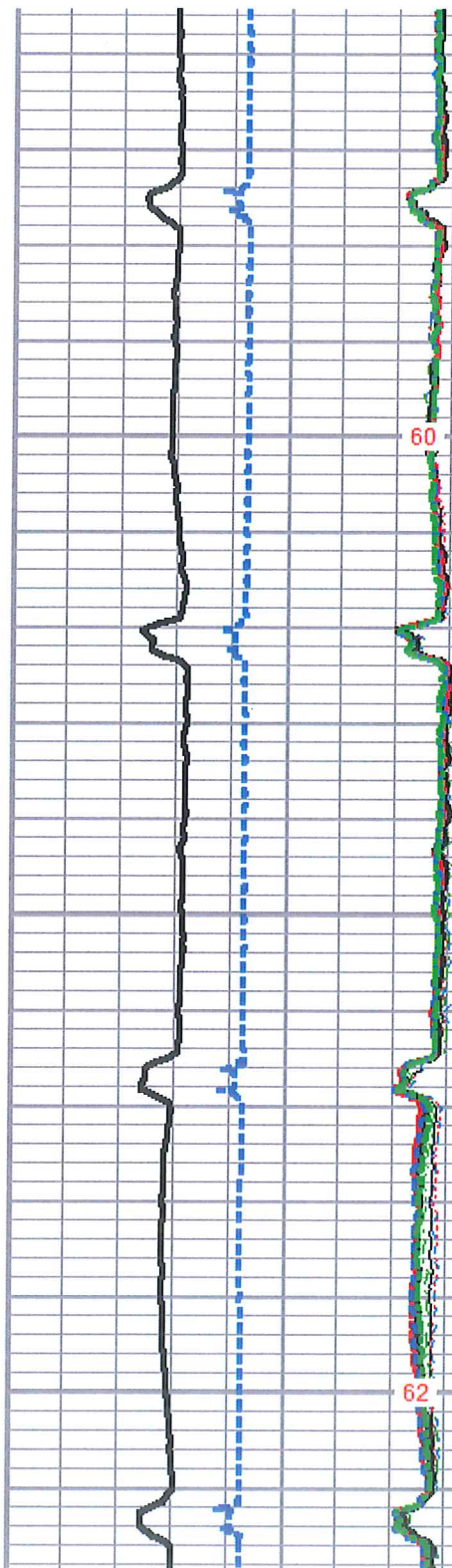




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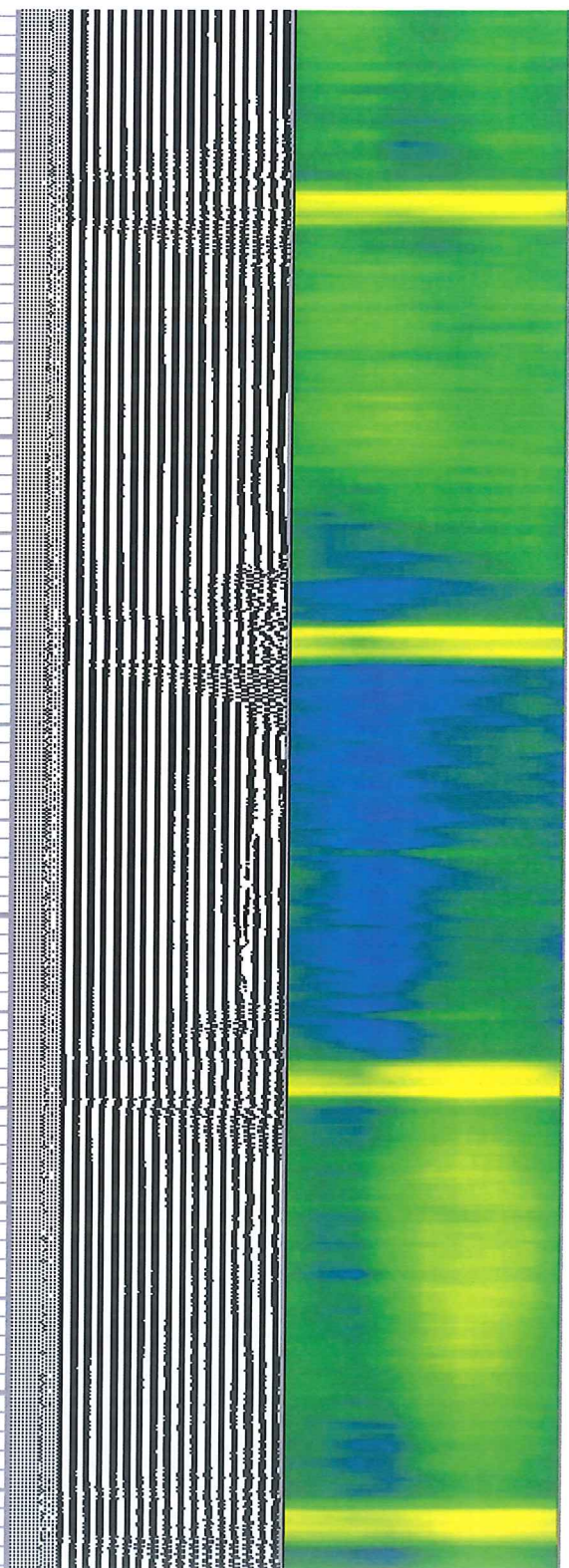
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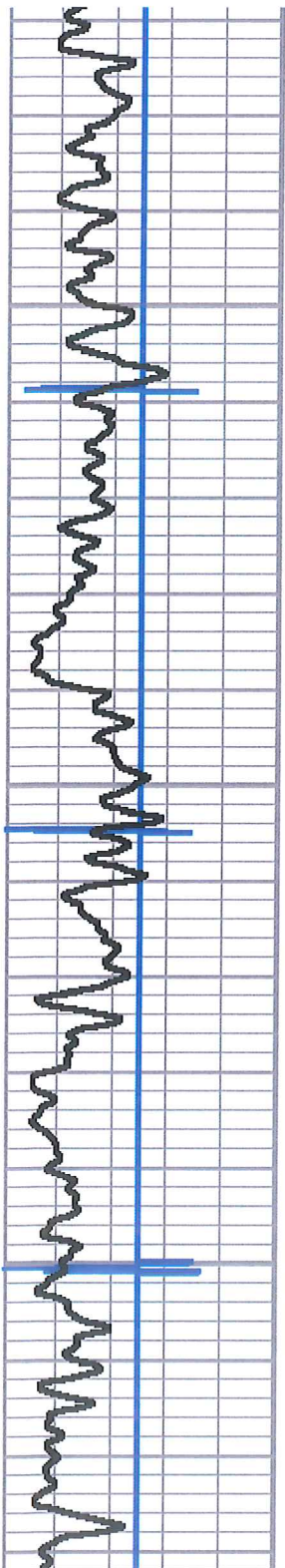
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60

62

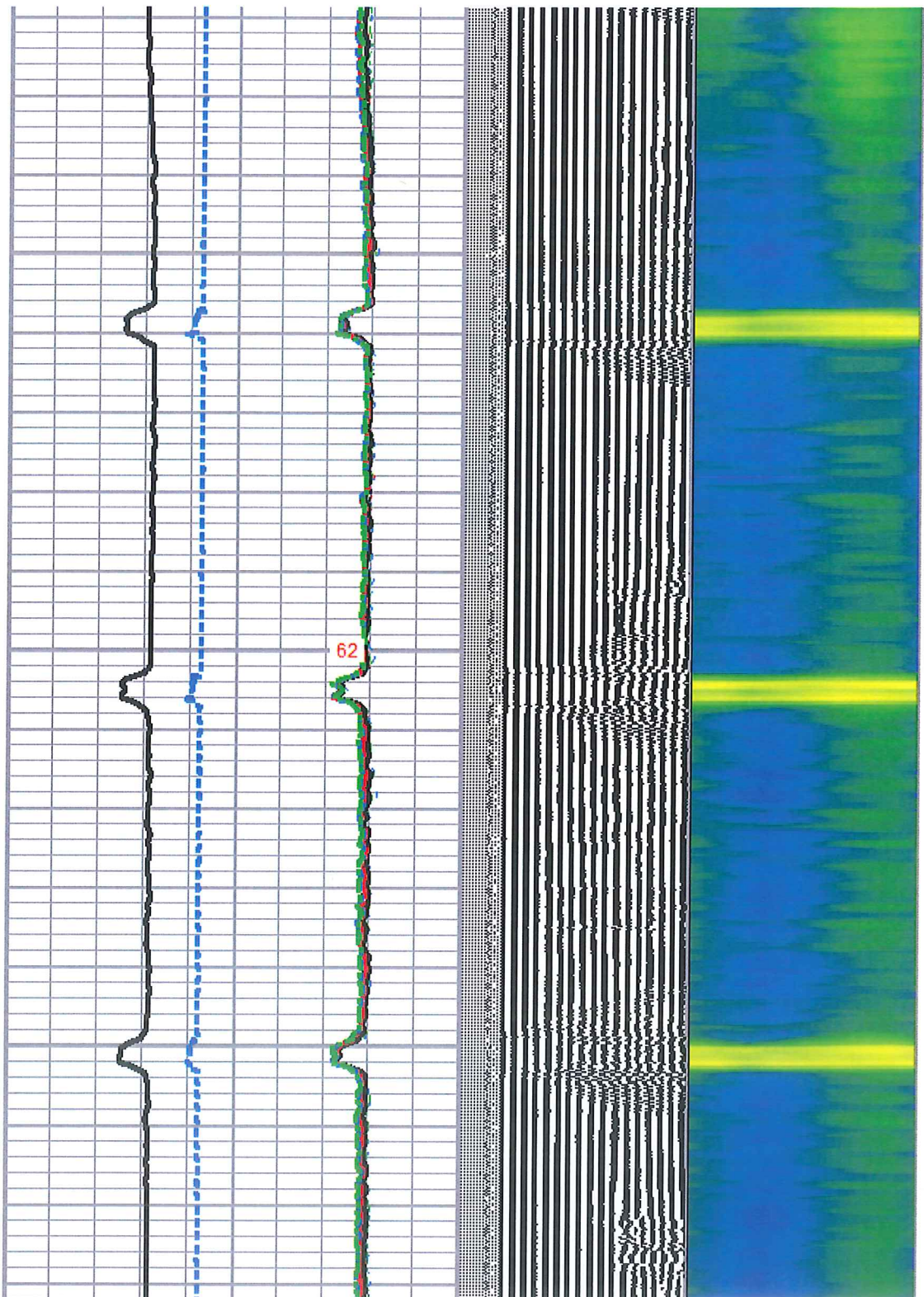


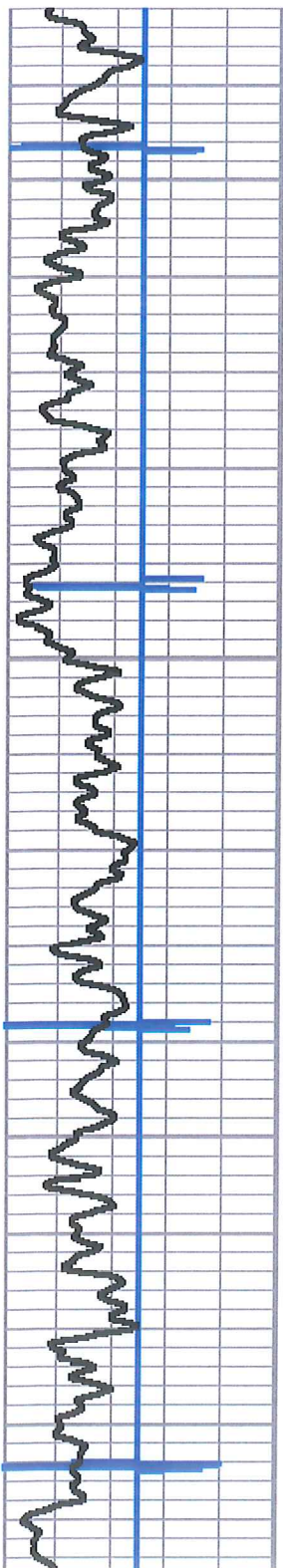


1450

1500

1550

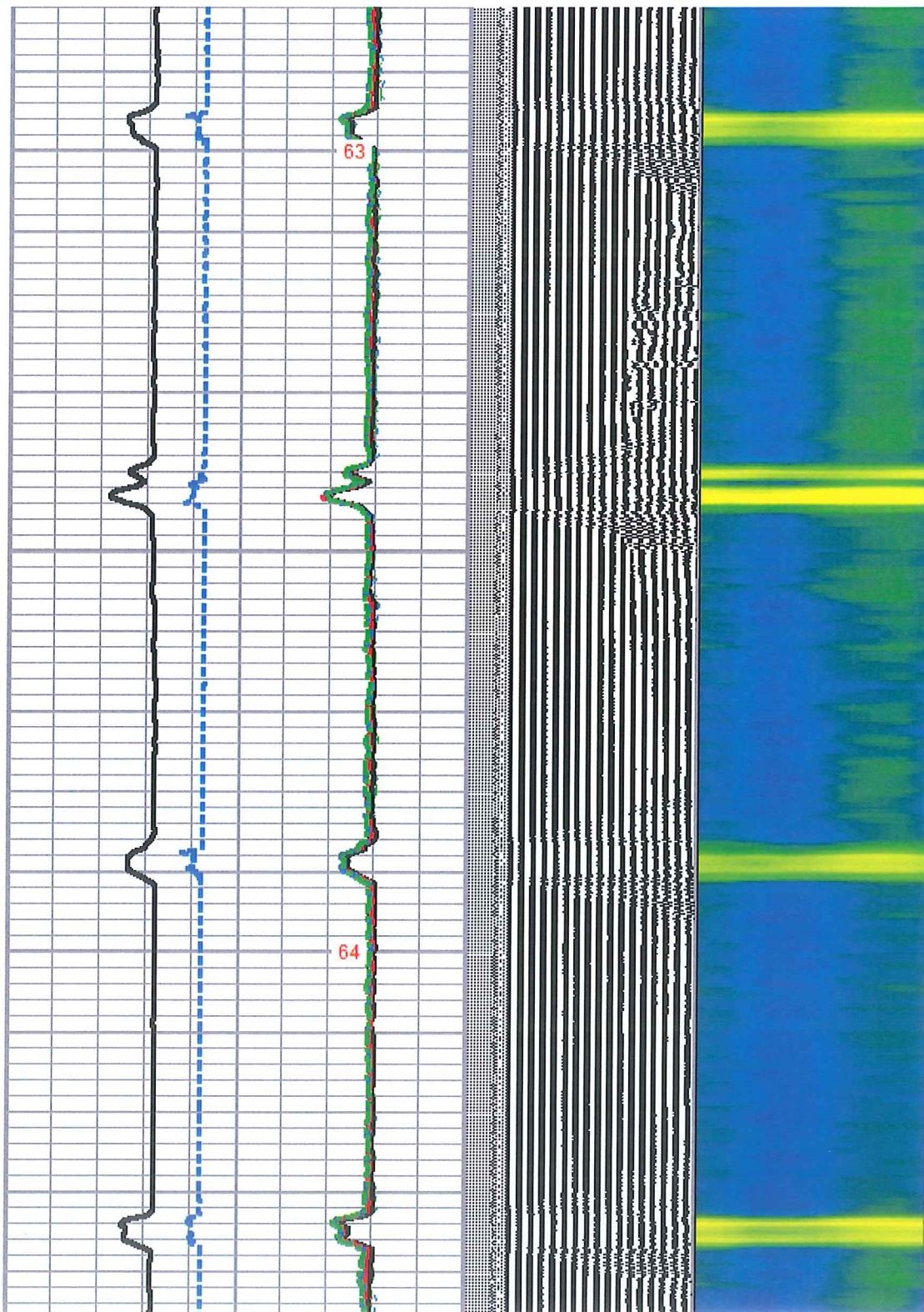


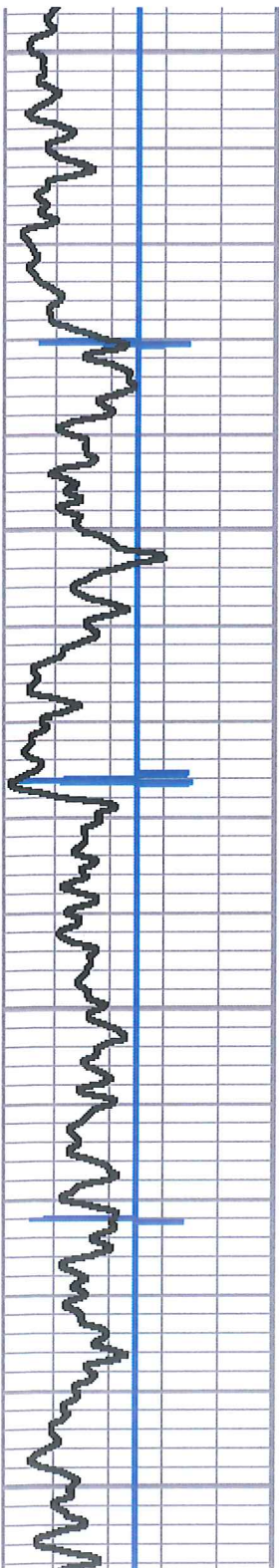


1600

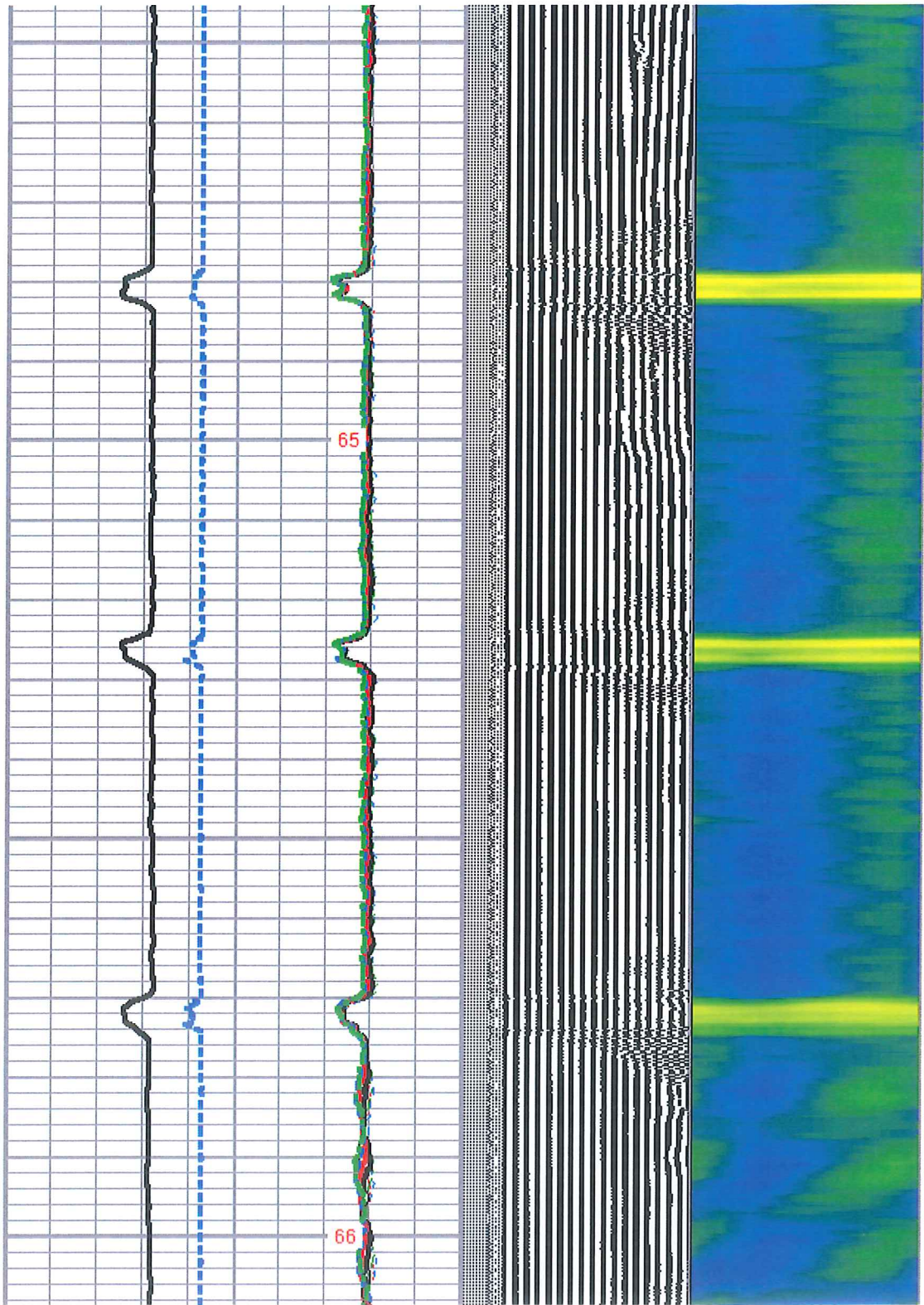
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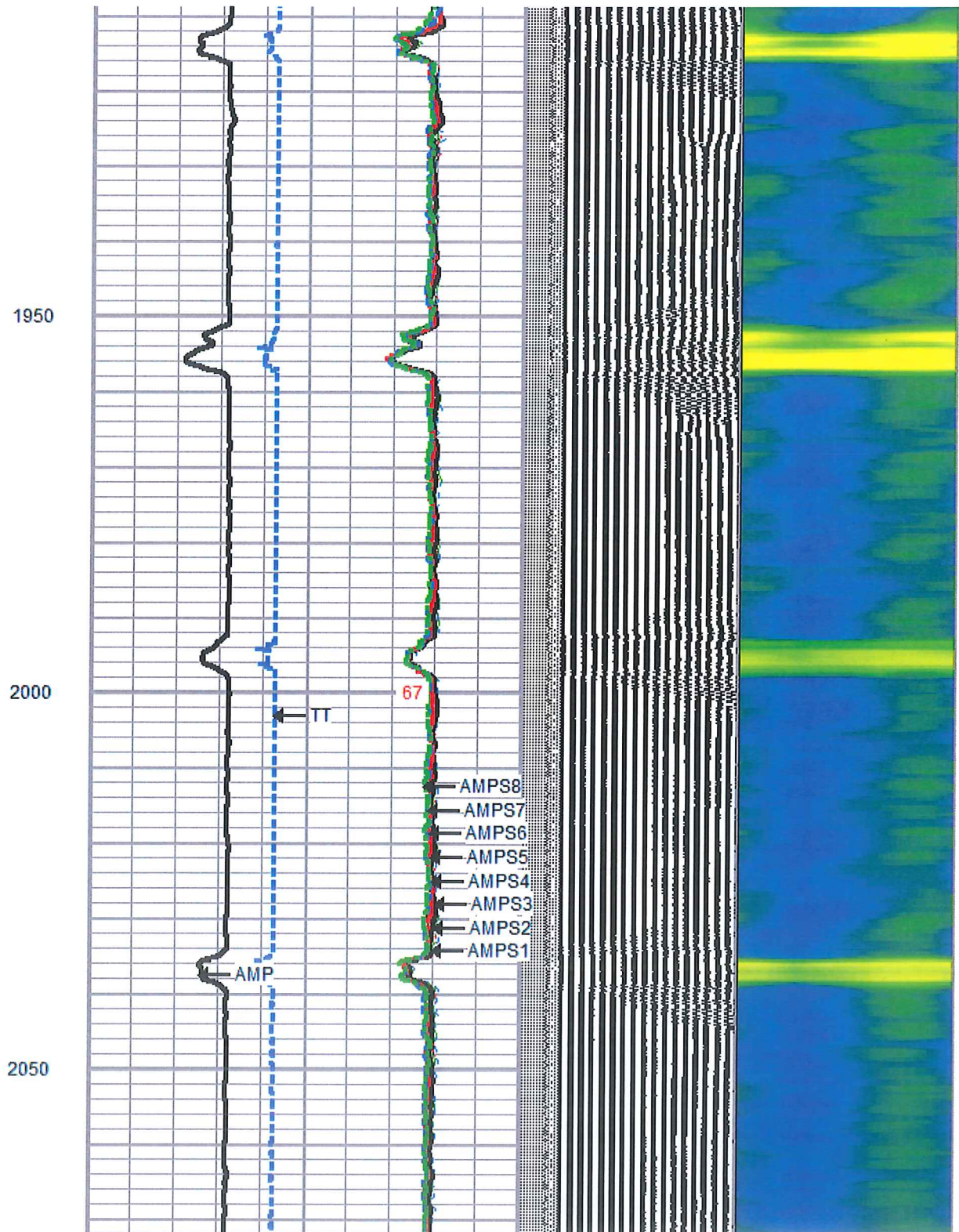
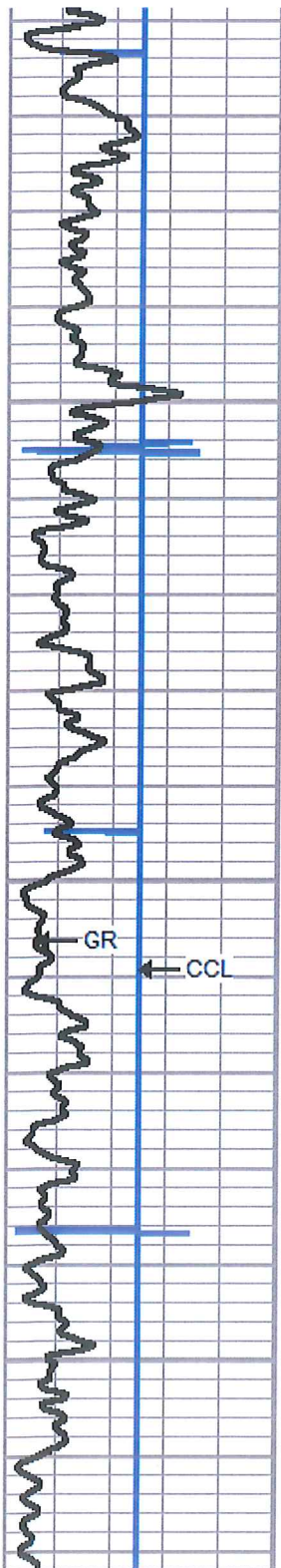
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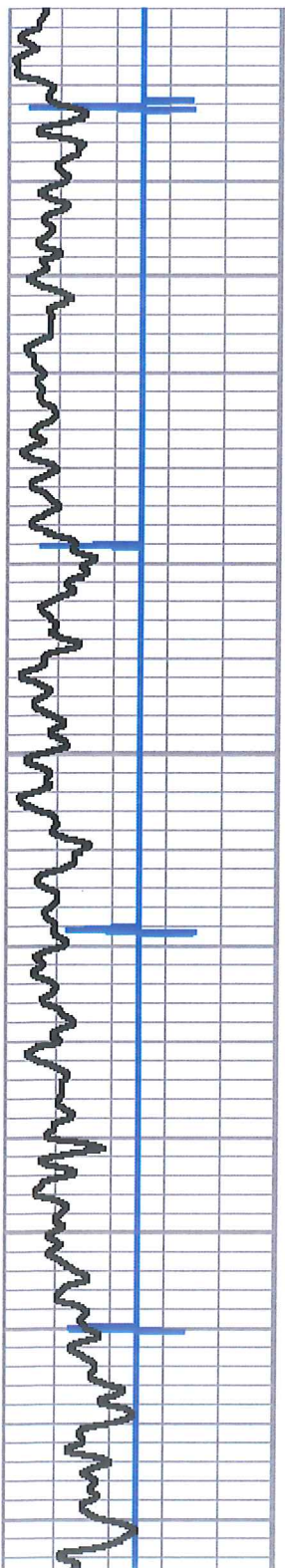


1750  
1800  
1850  
1900





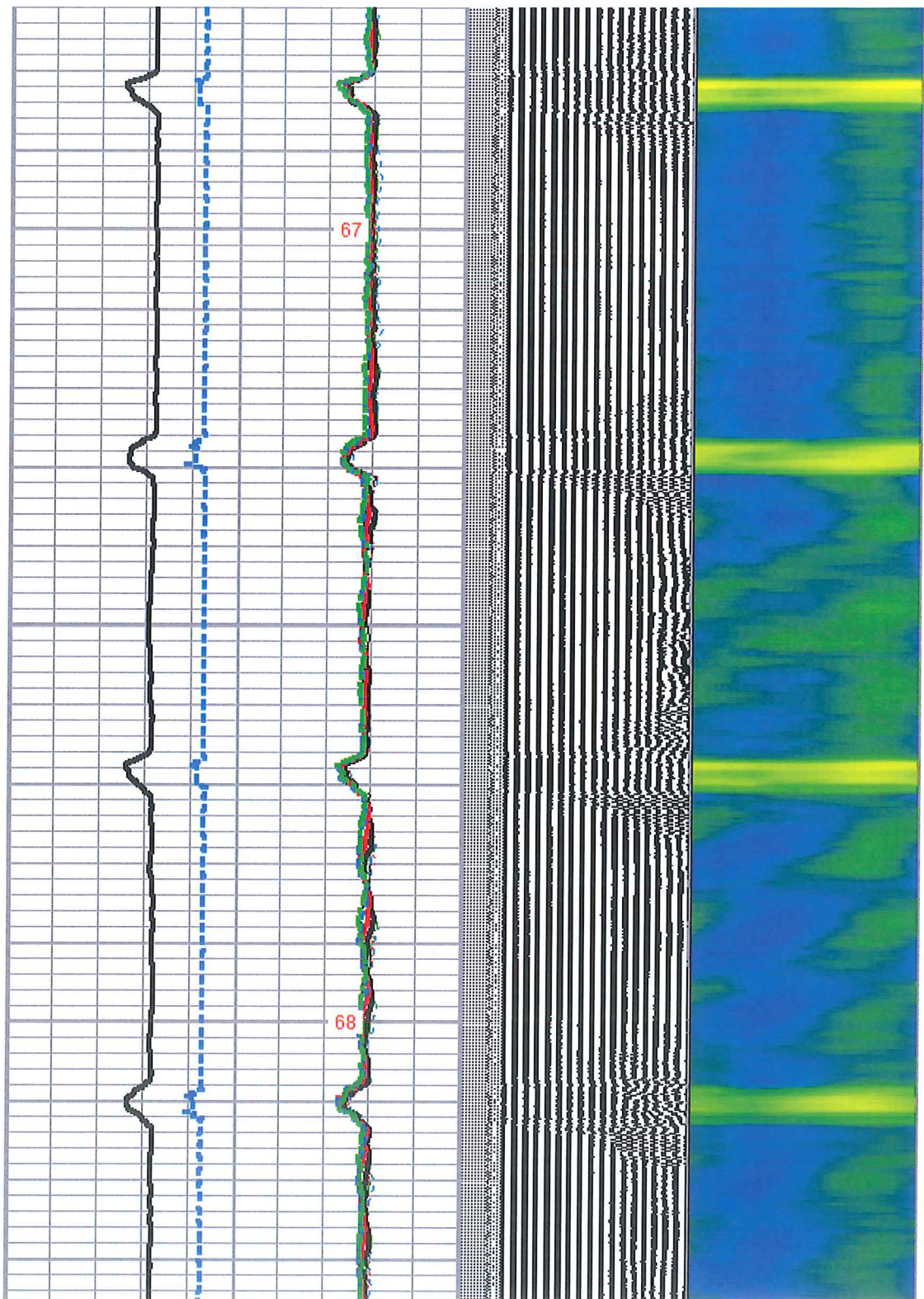




2100

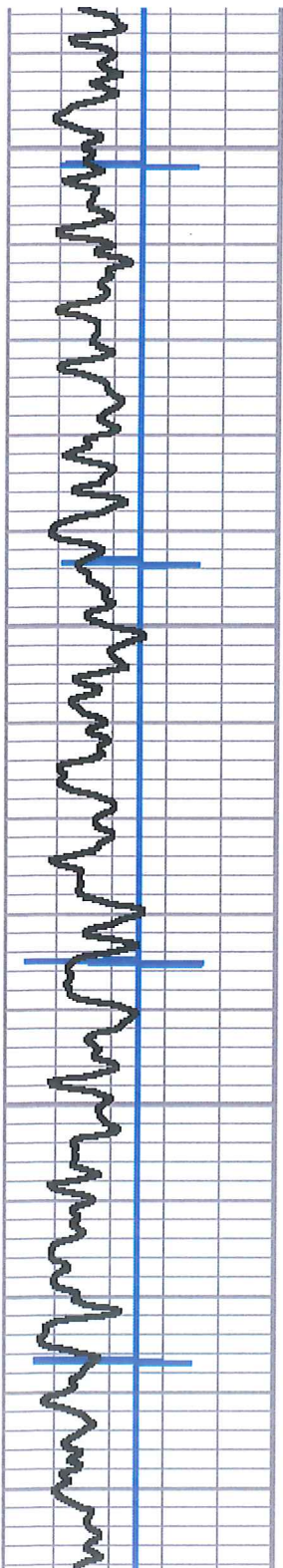
2150

2200



67

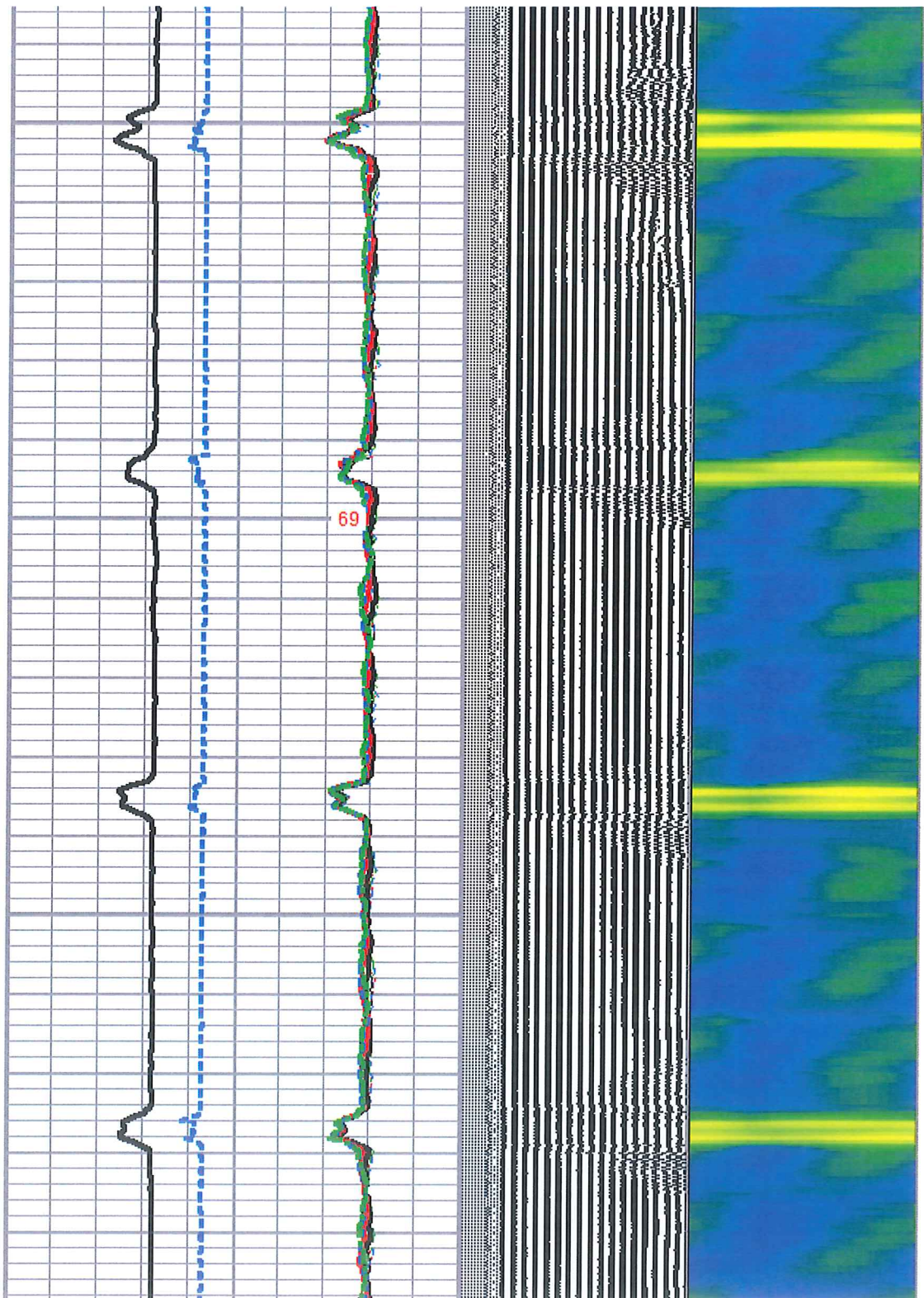
68

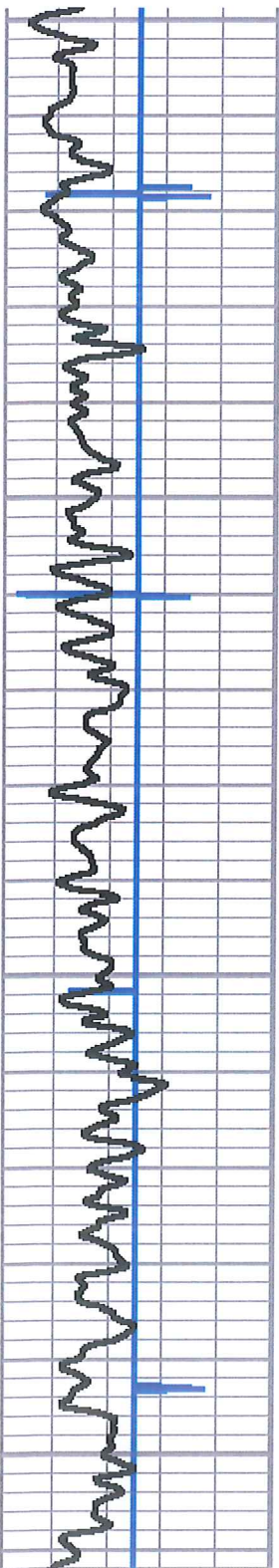


2250

2300

2350



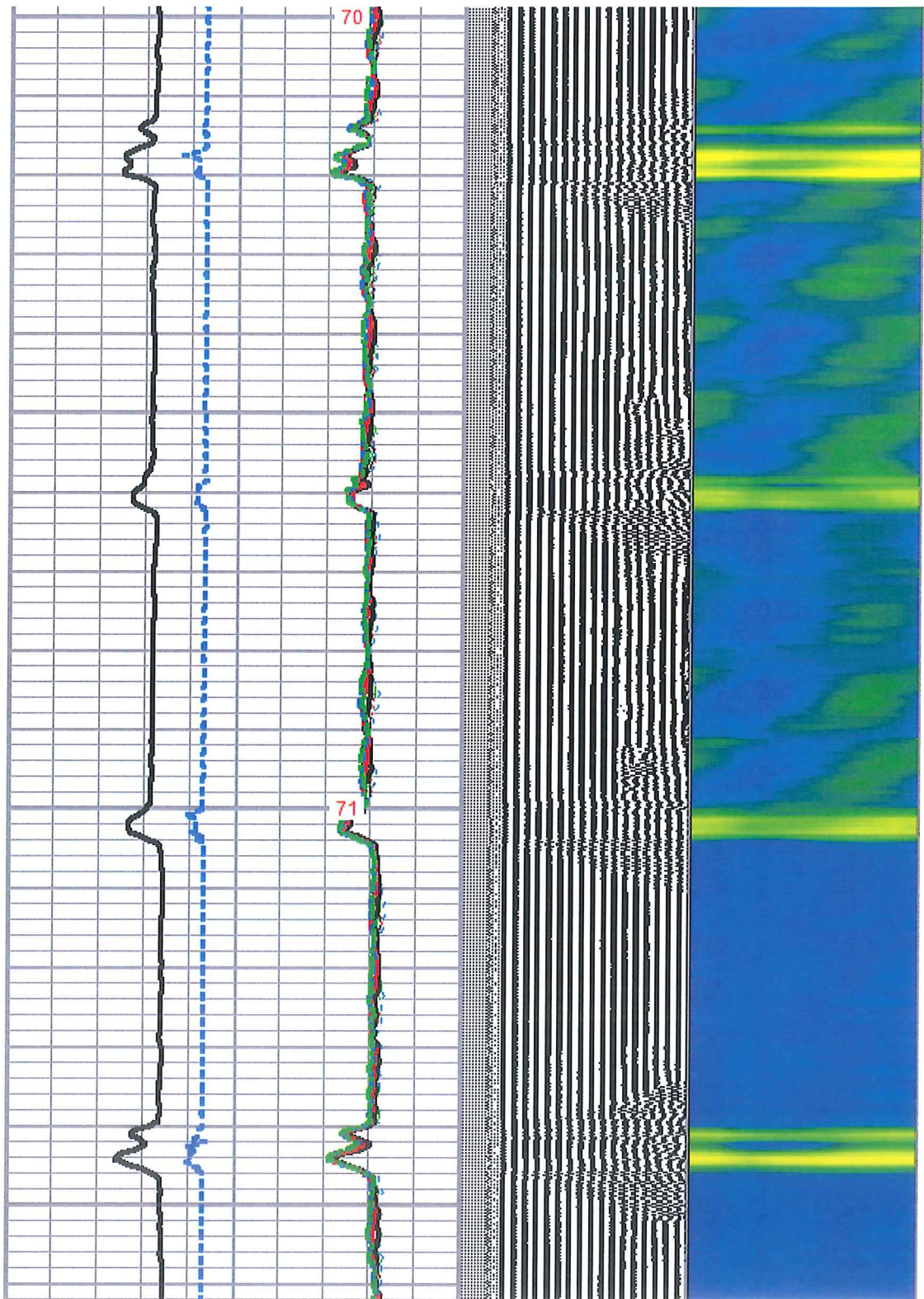


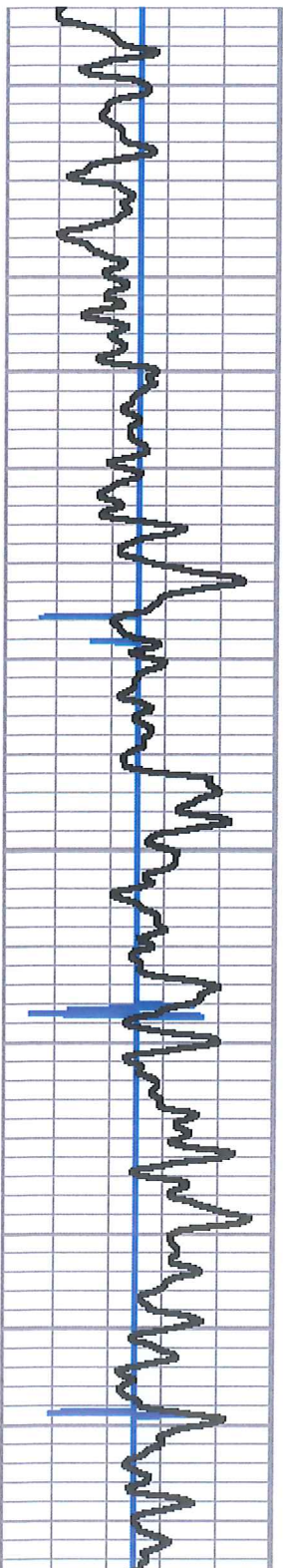
2400

2450

2500

2550

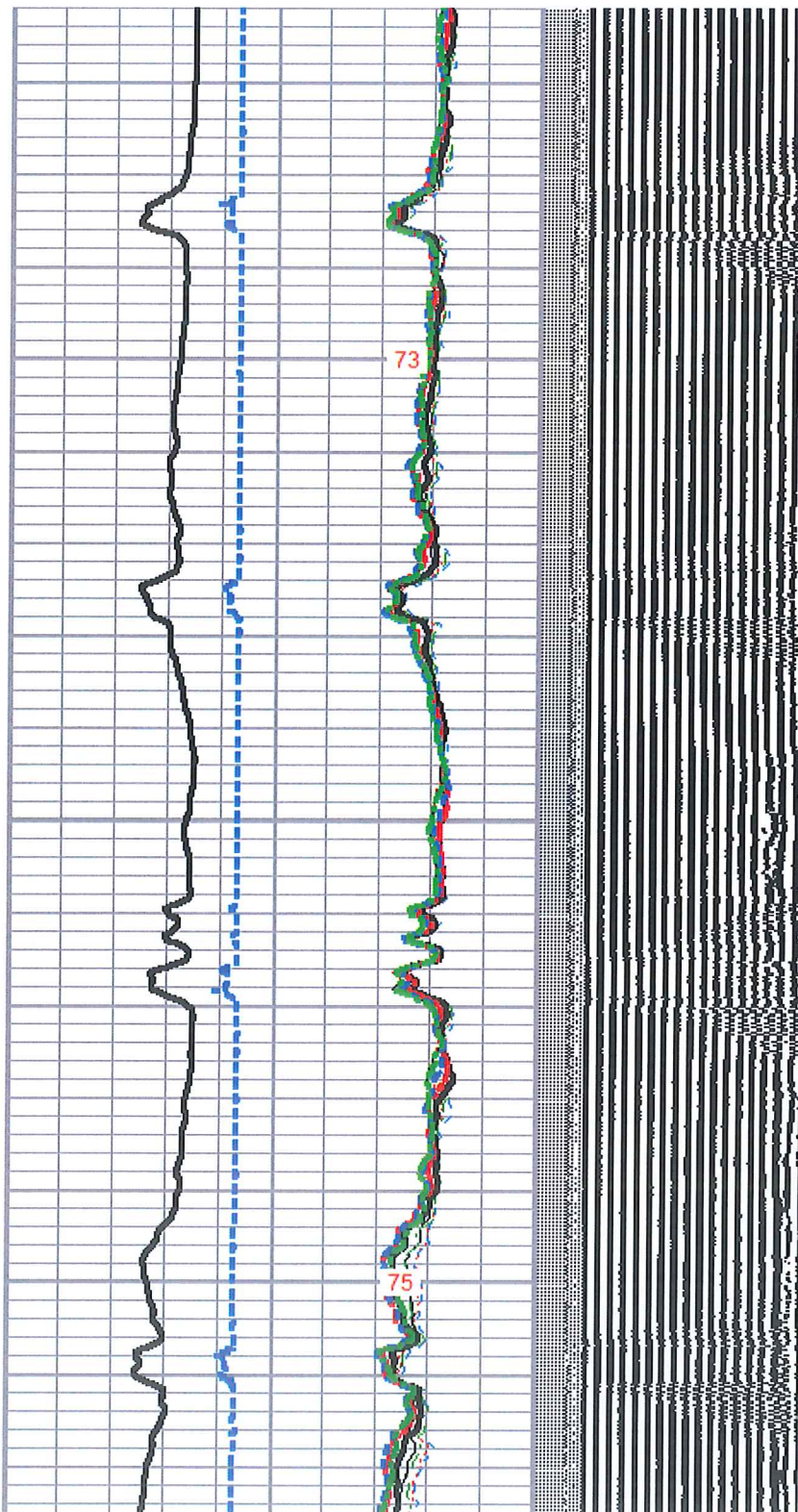




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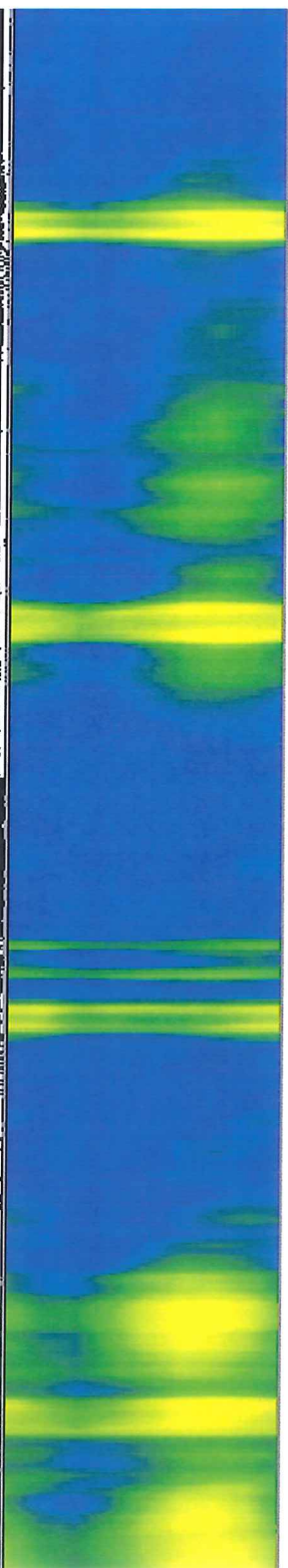
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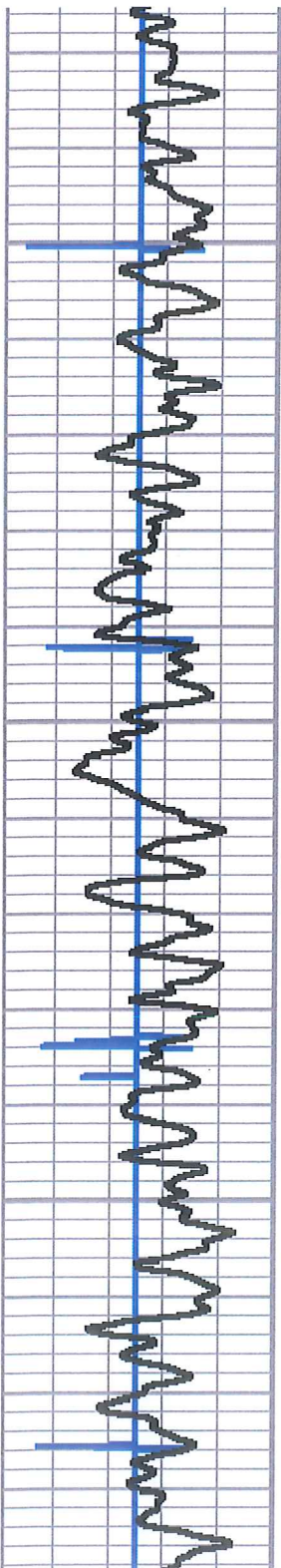
2700



73

75

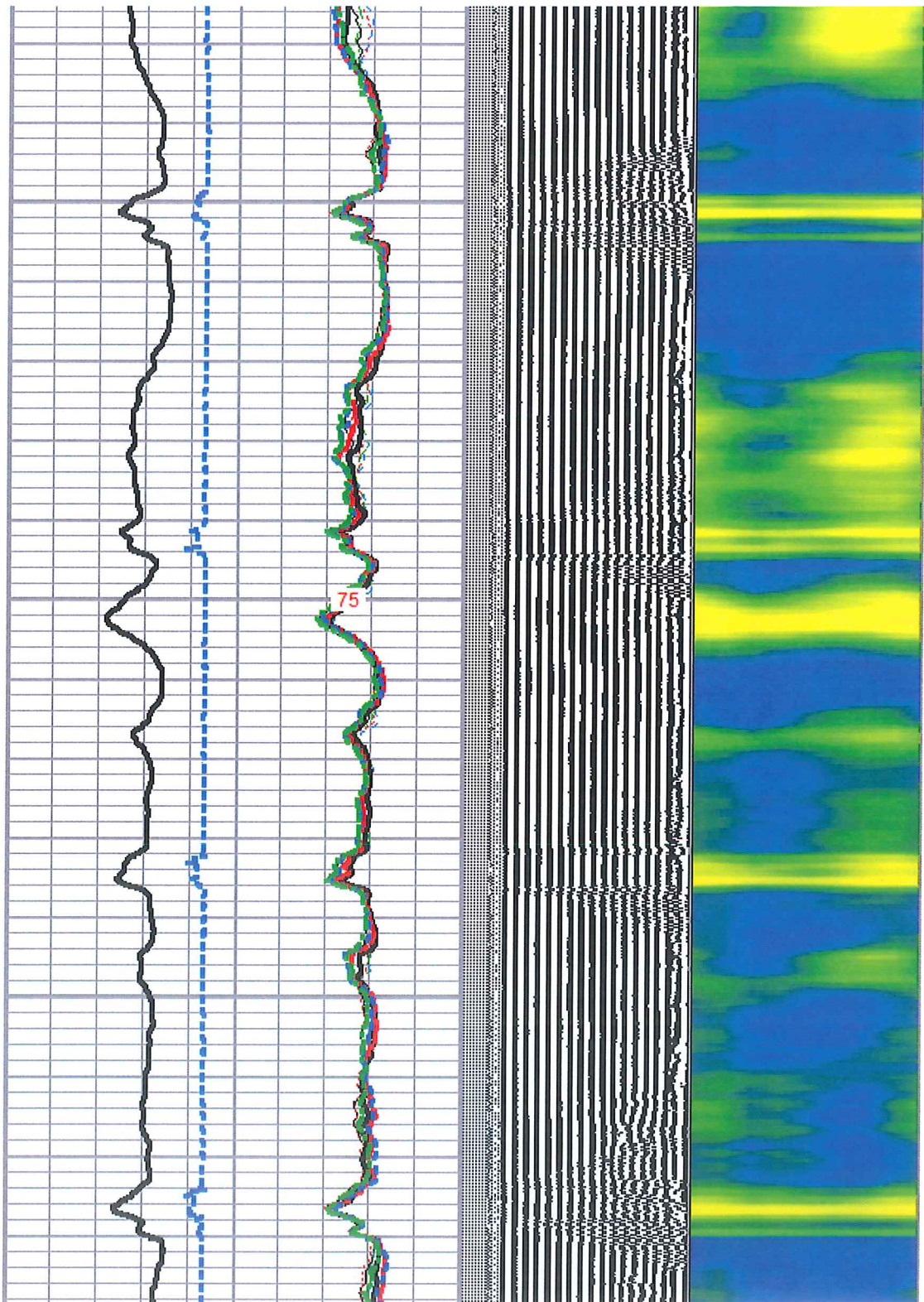


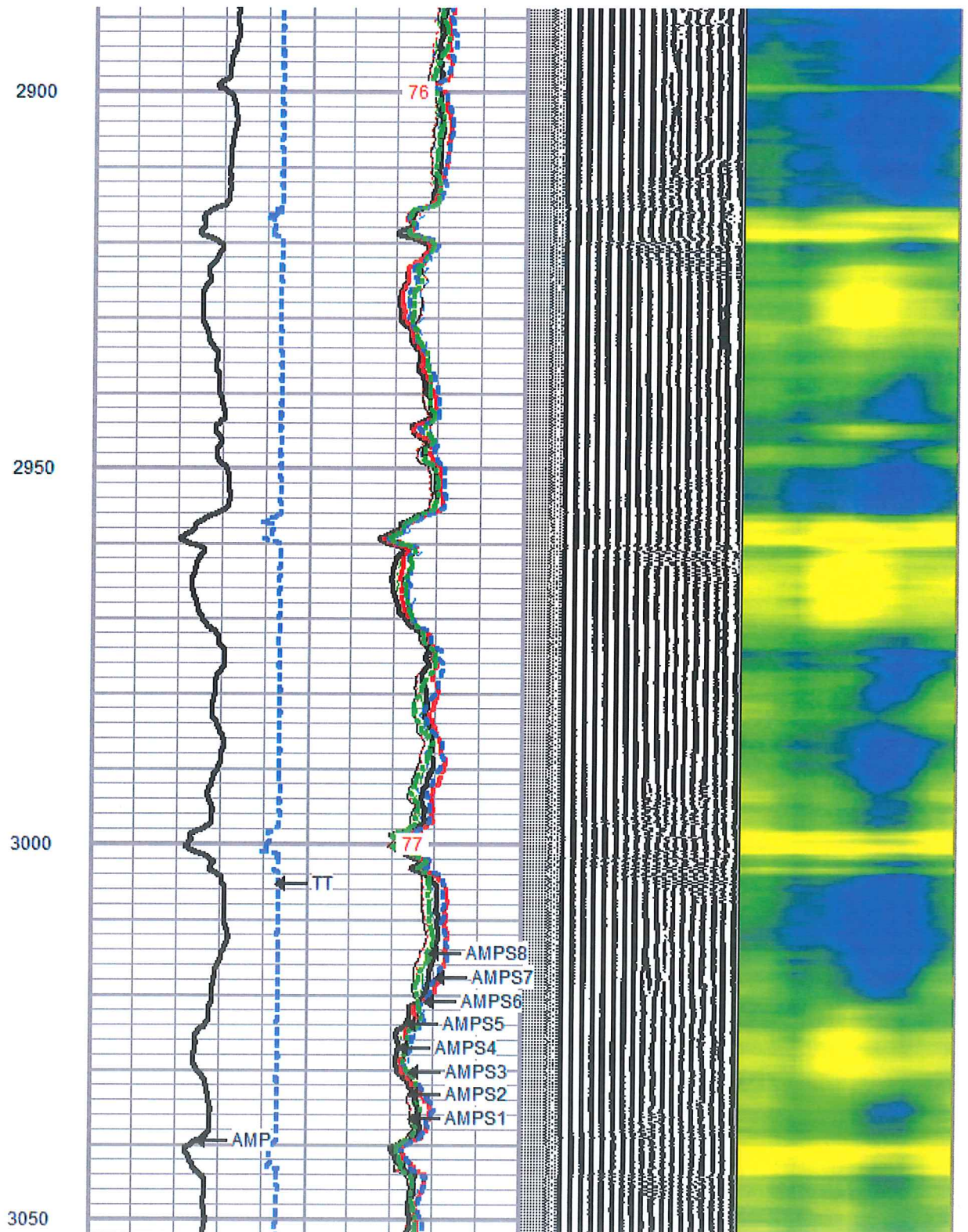
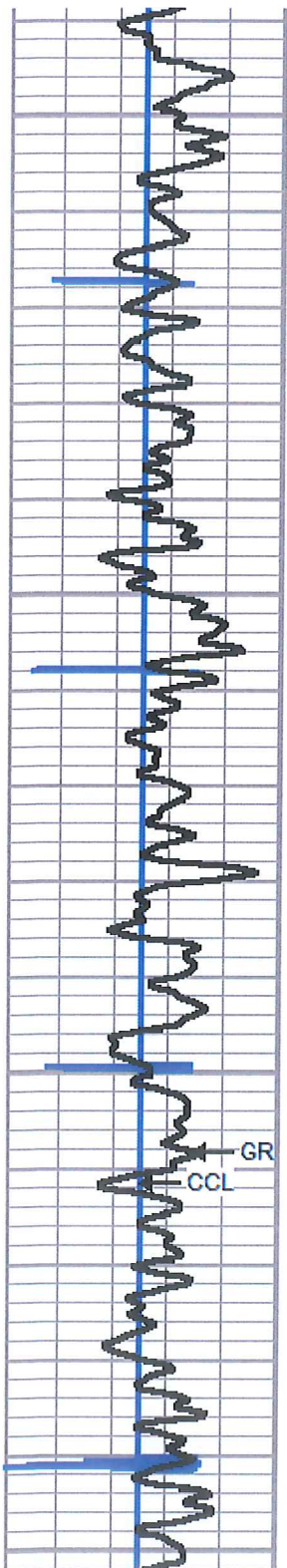


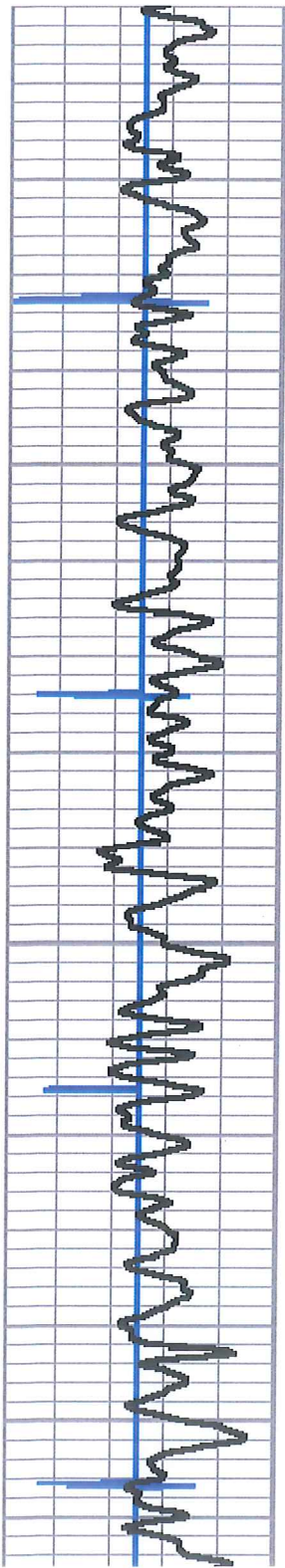
2750

2800

2850



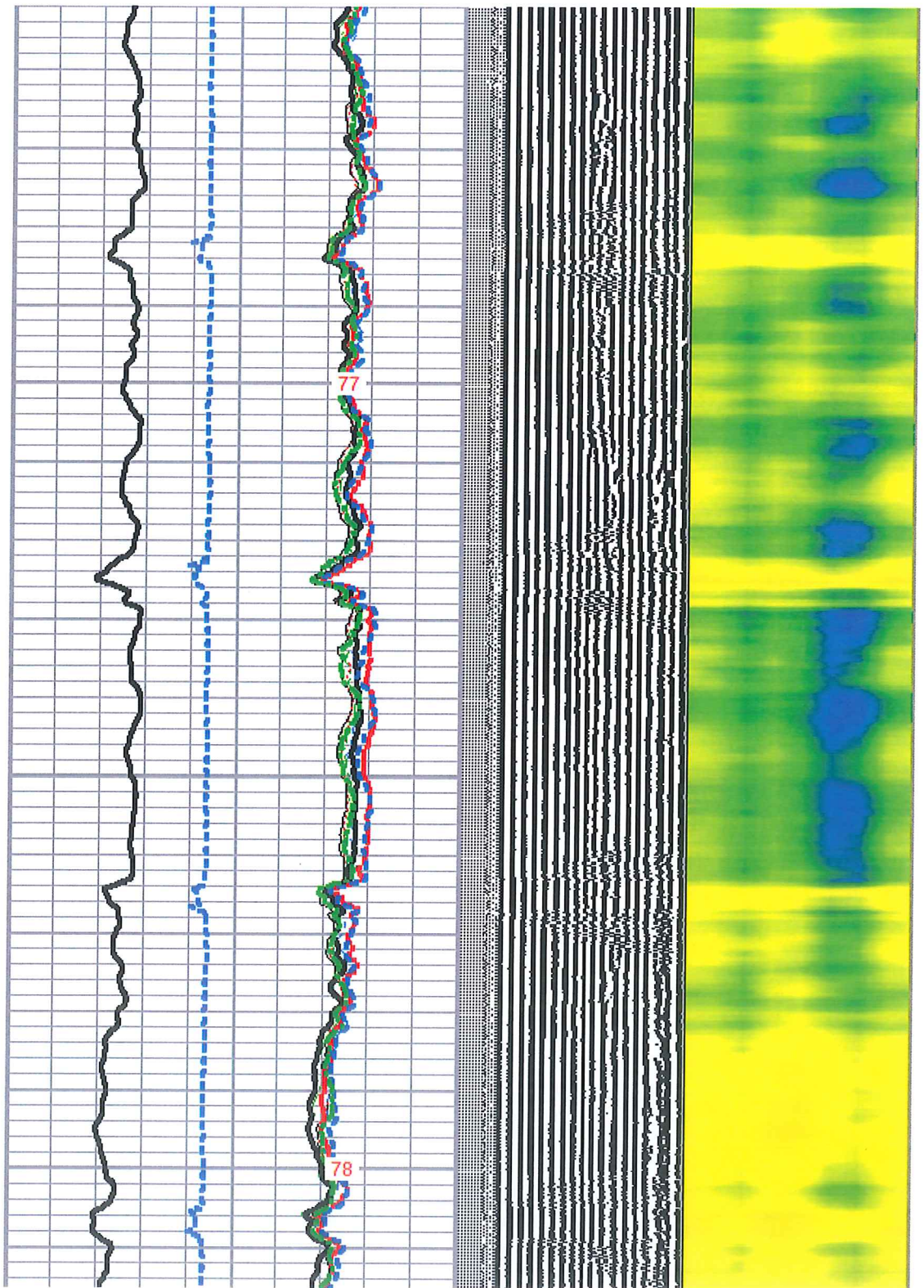


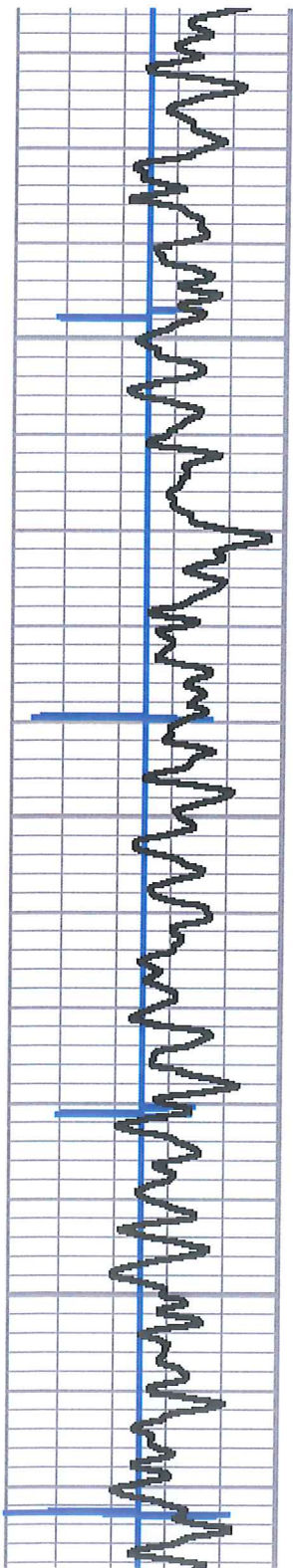


3100

3150

3200

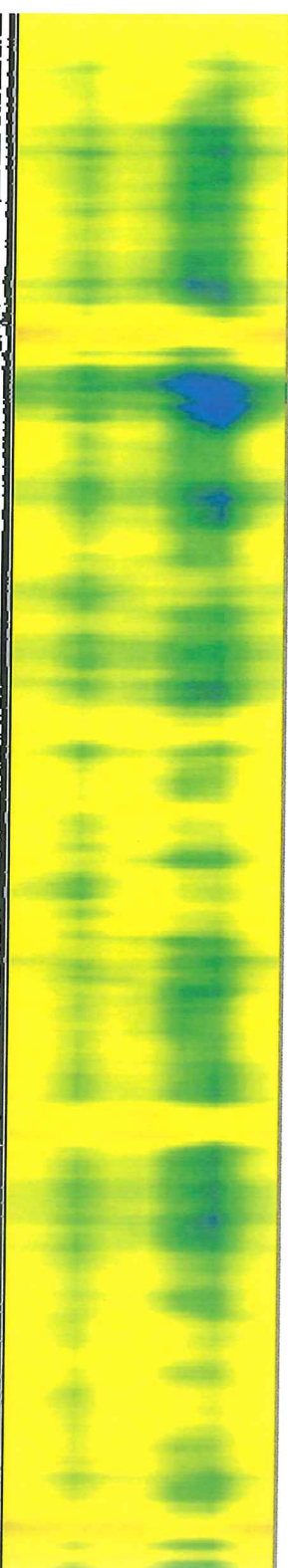
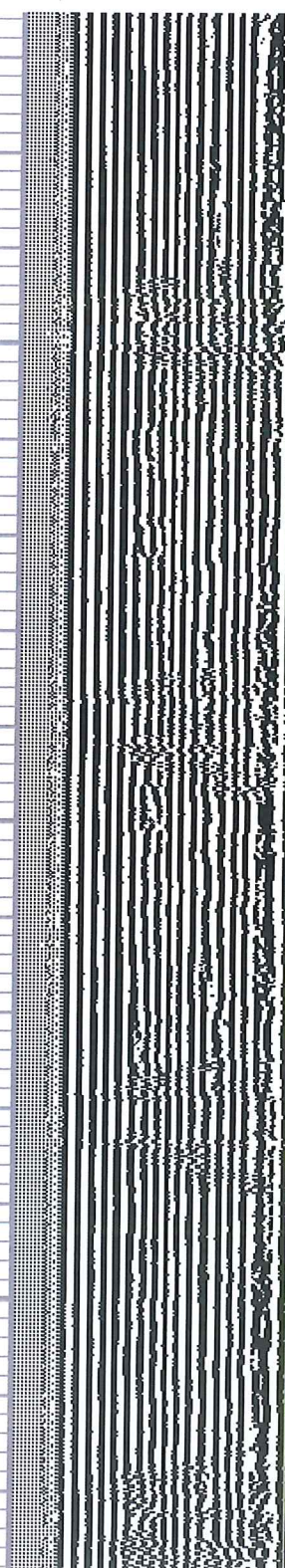
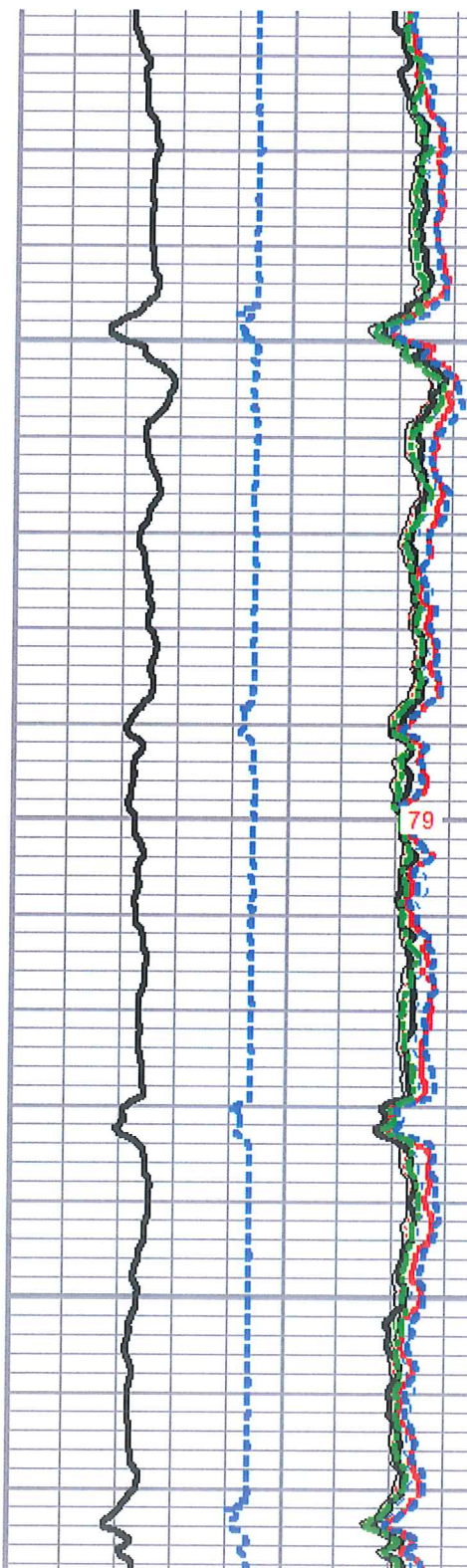




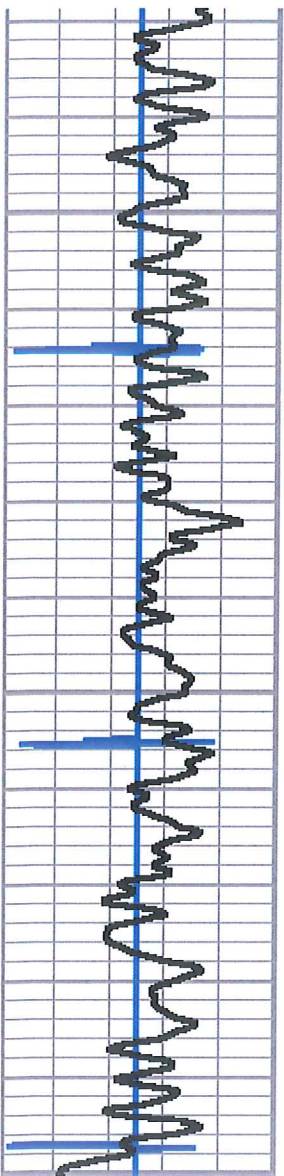
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3300

3350



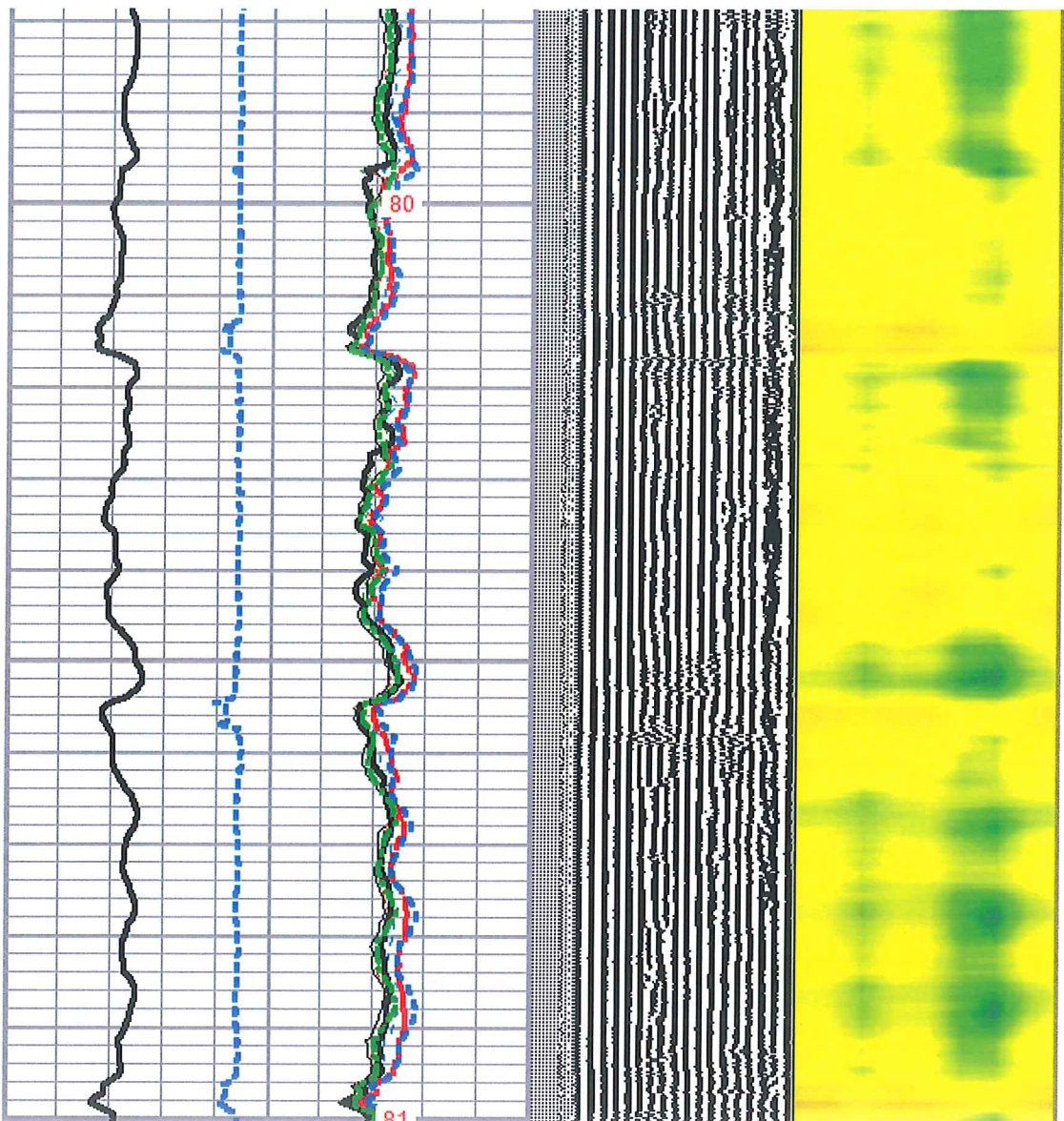


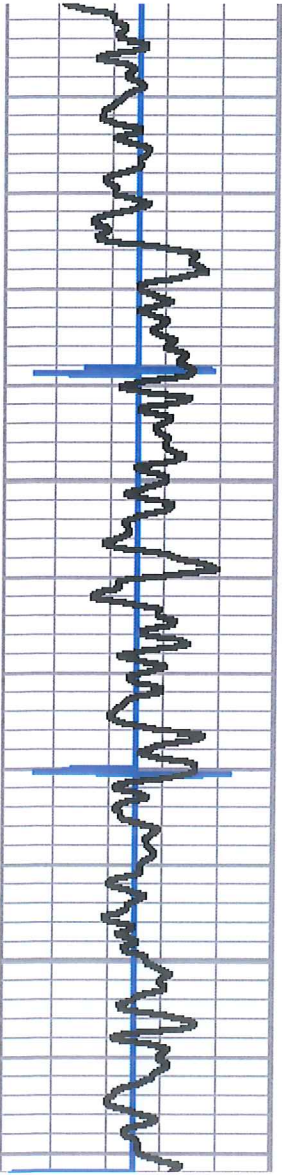


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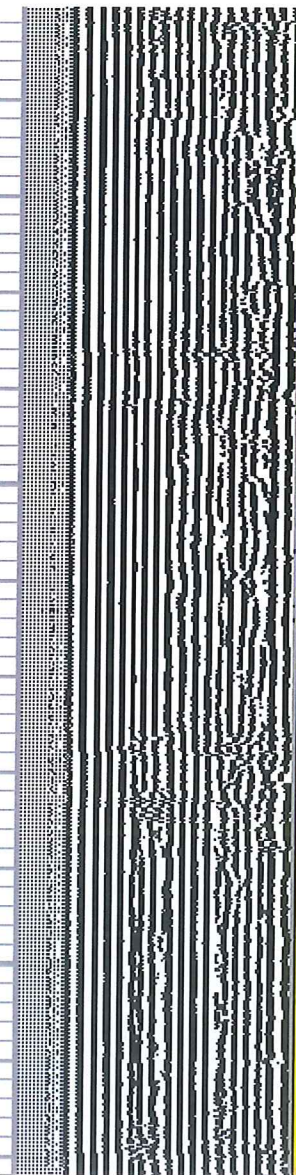
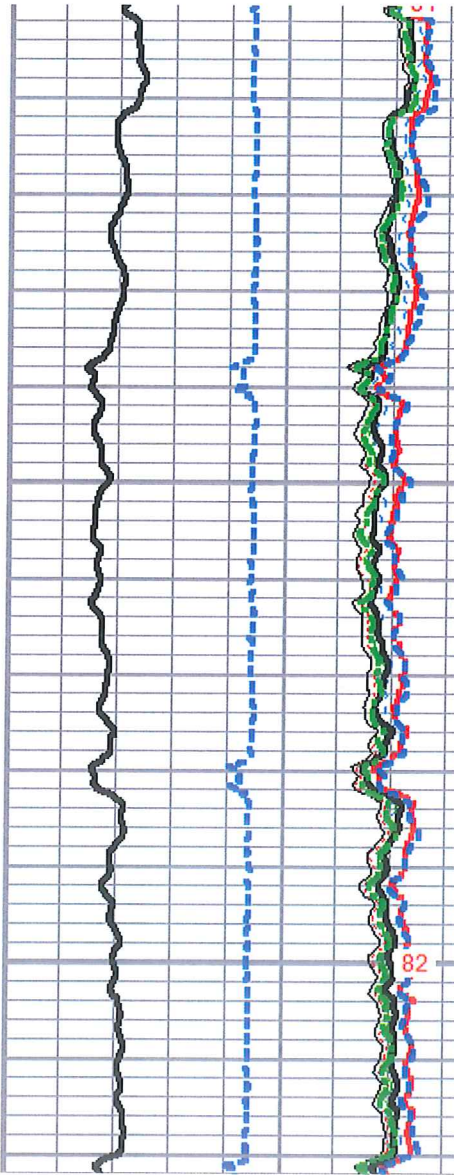
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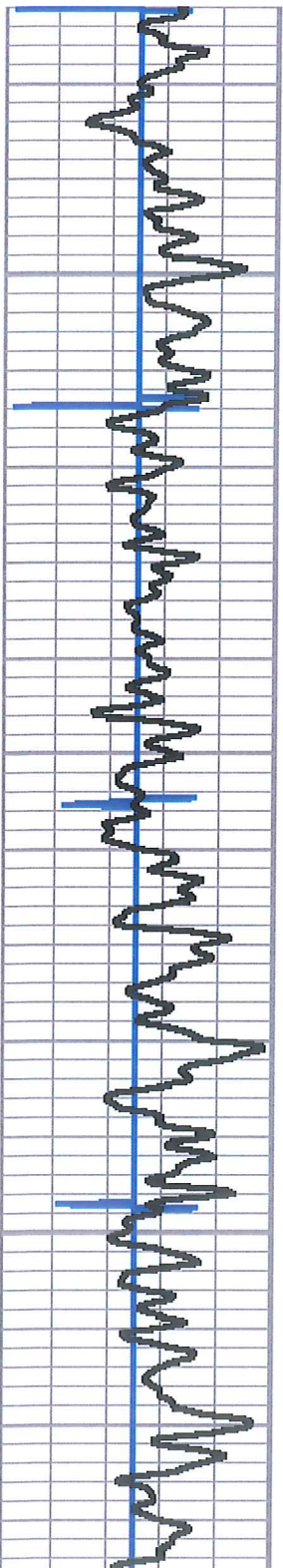
3500





3500  
3550  
3600

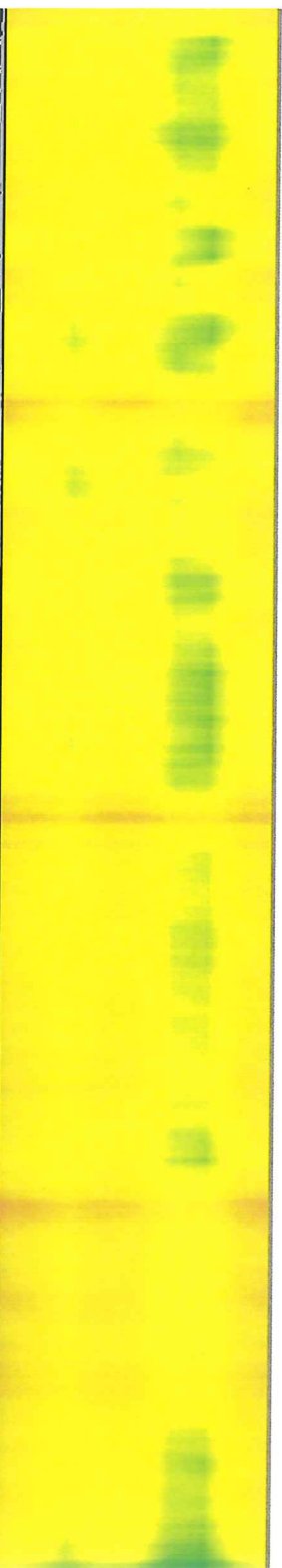
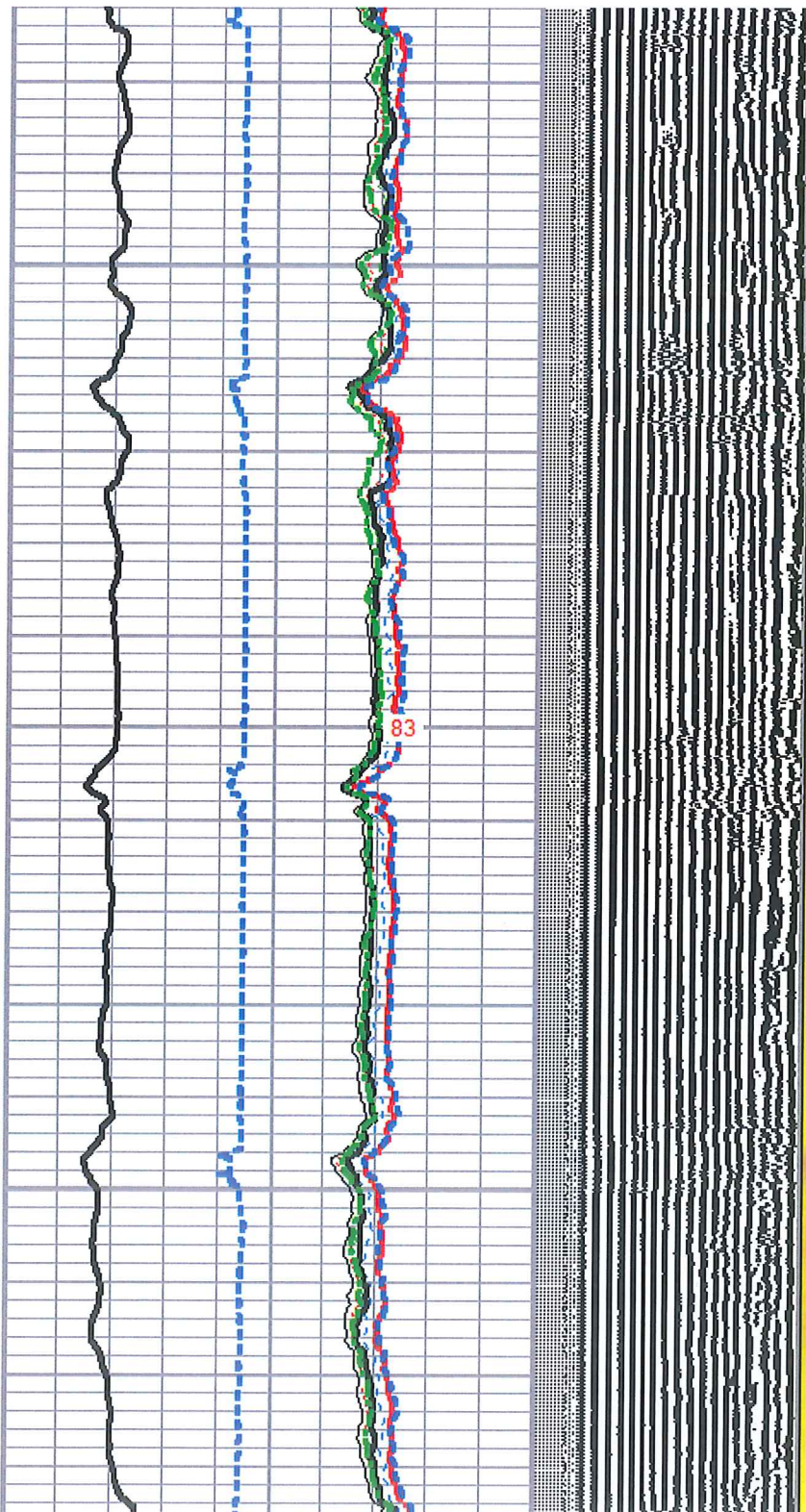


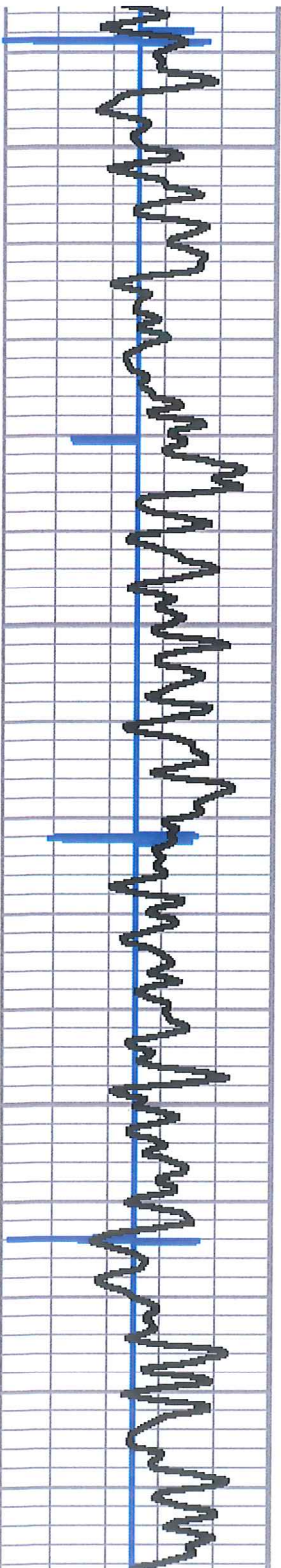


3650

3700

3750

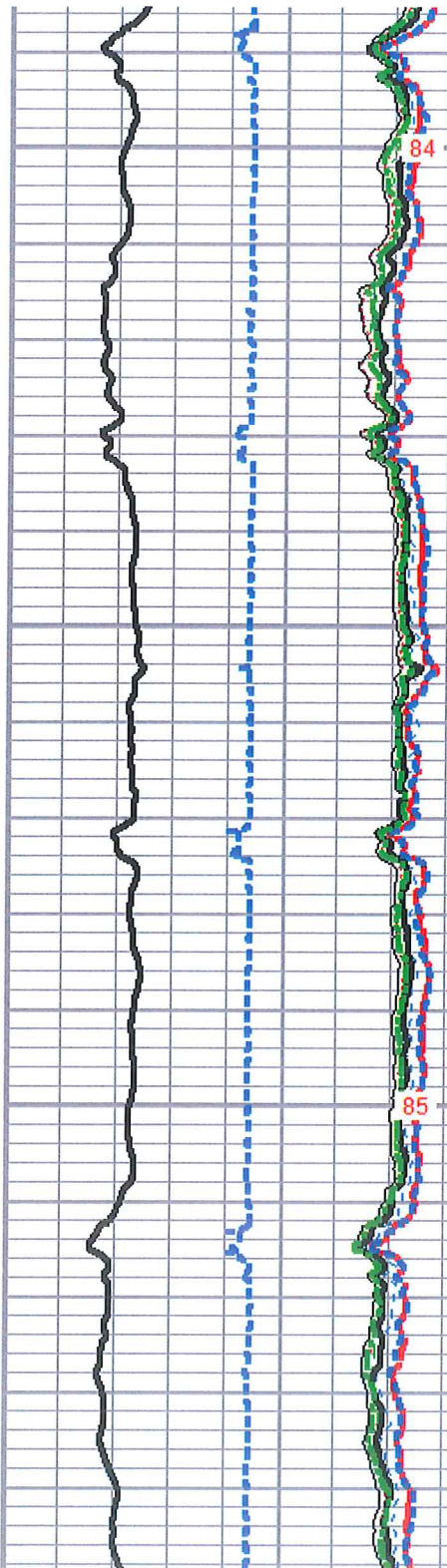




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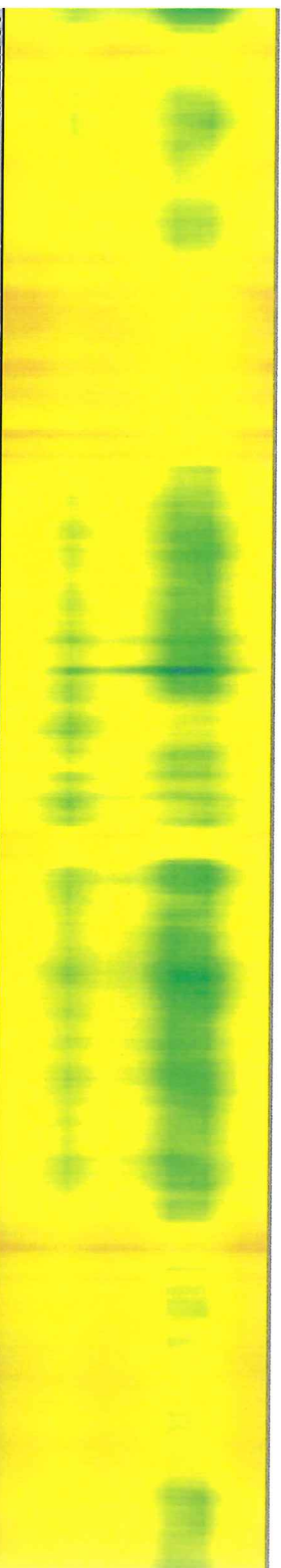
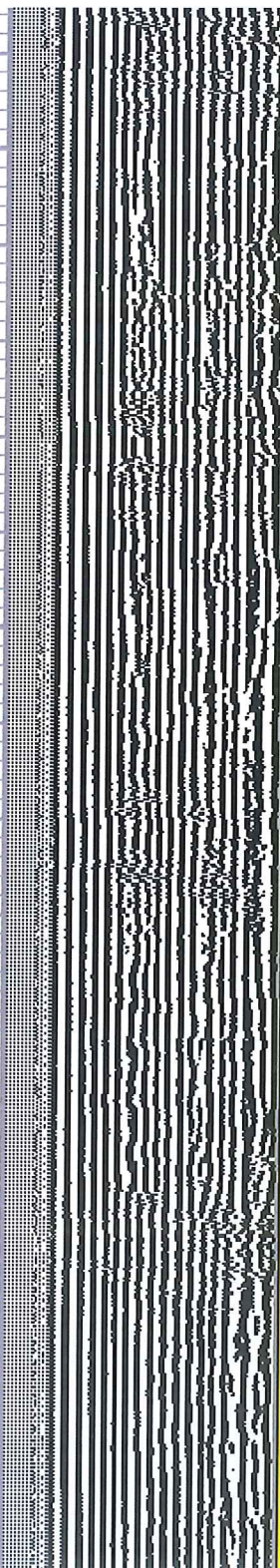
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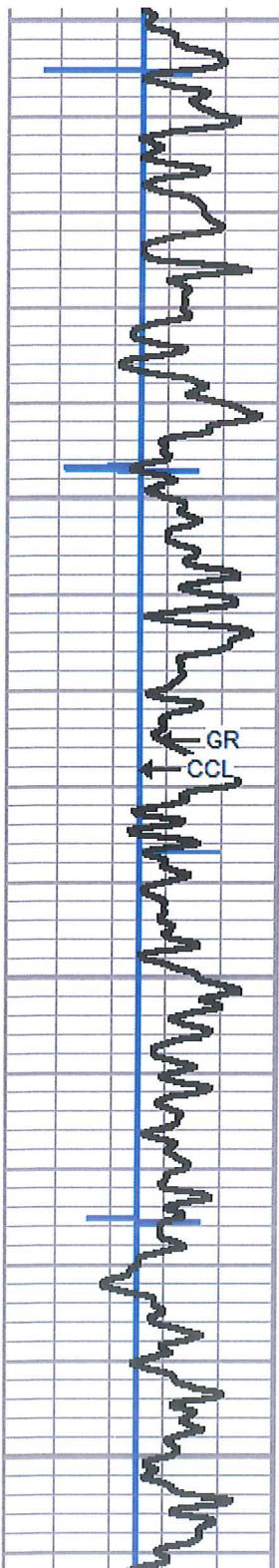
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84

85



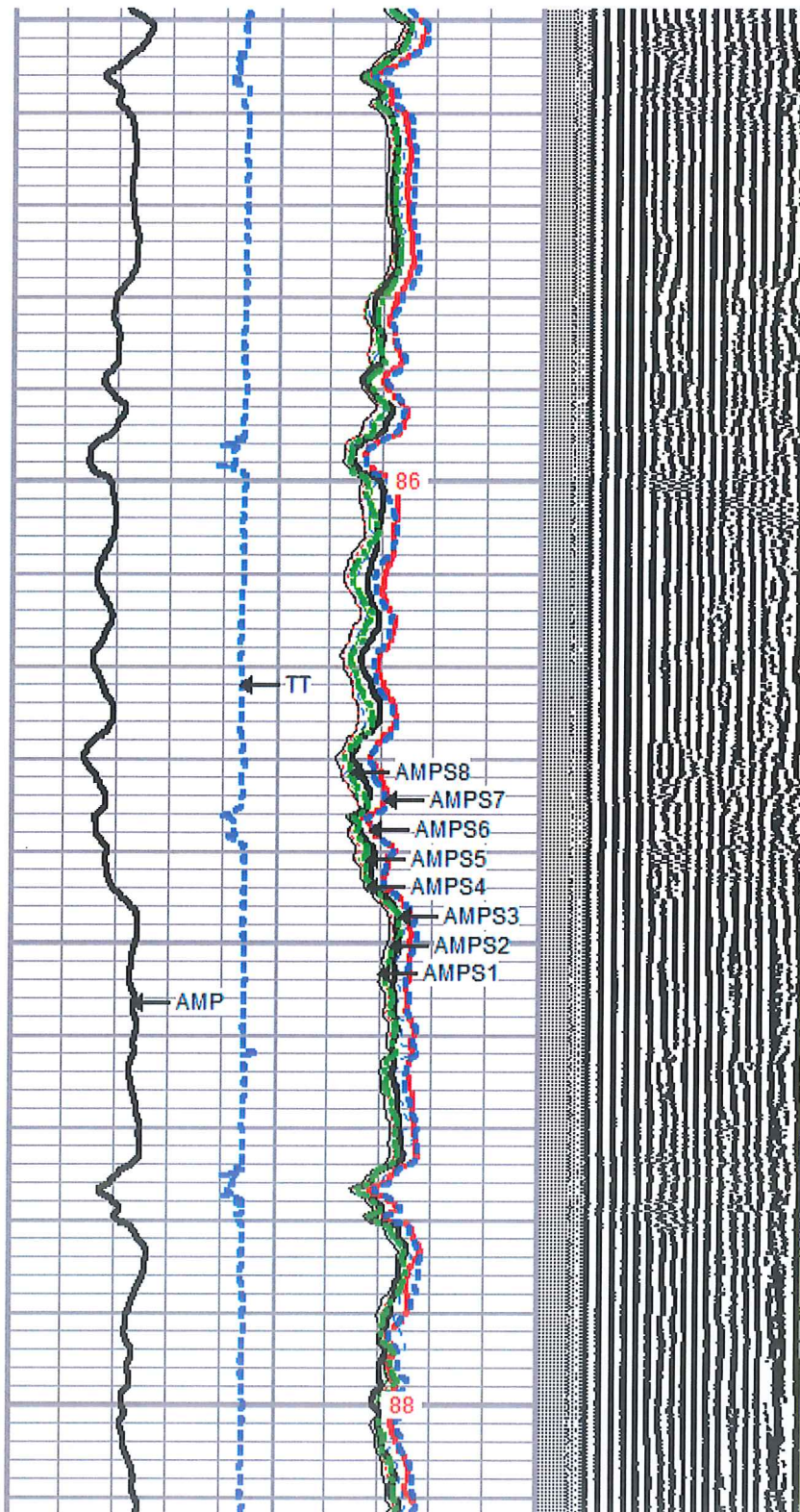


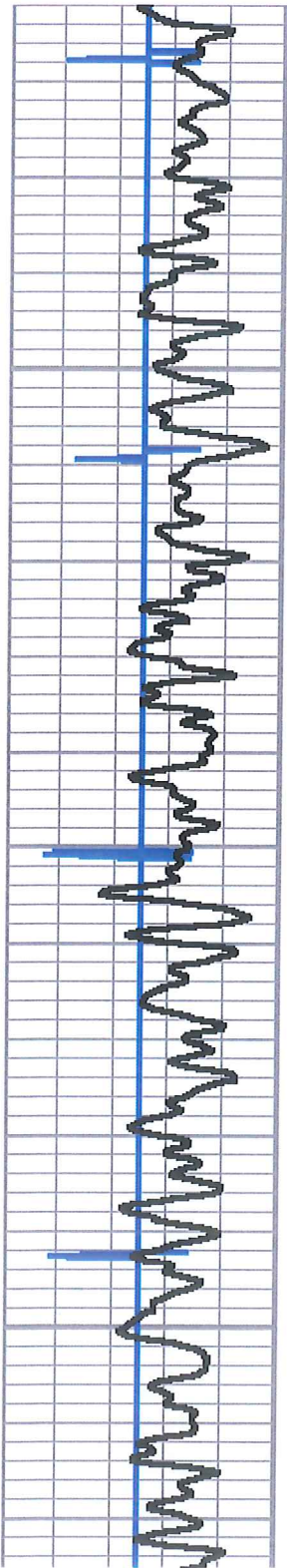
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4000

4050

4100

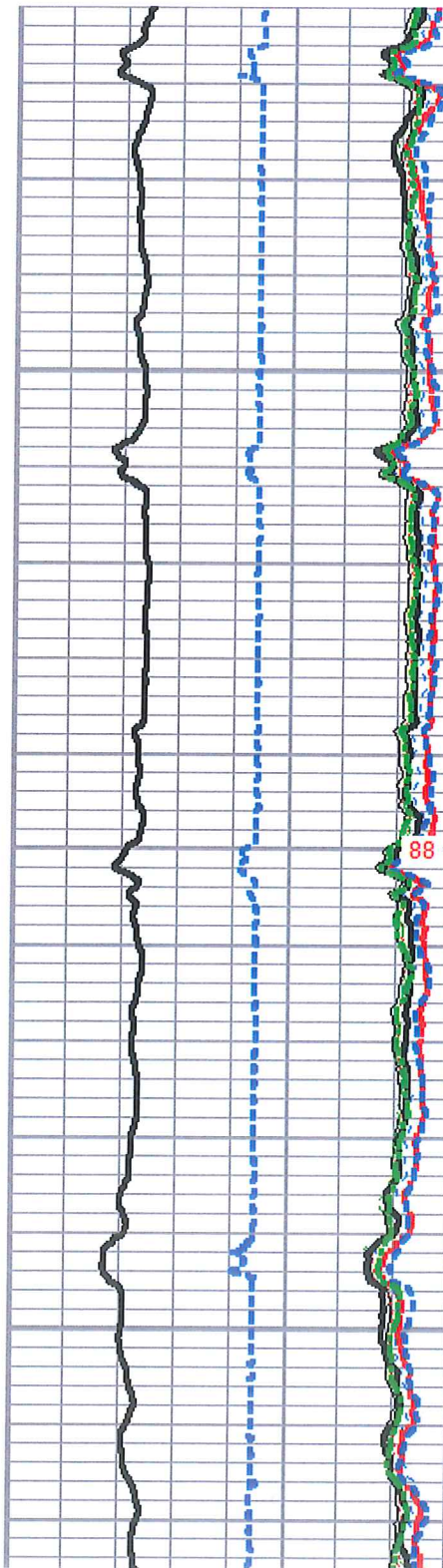




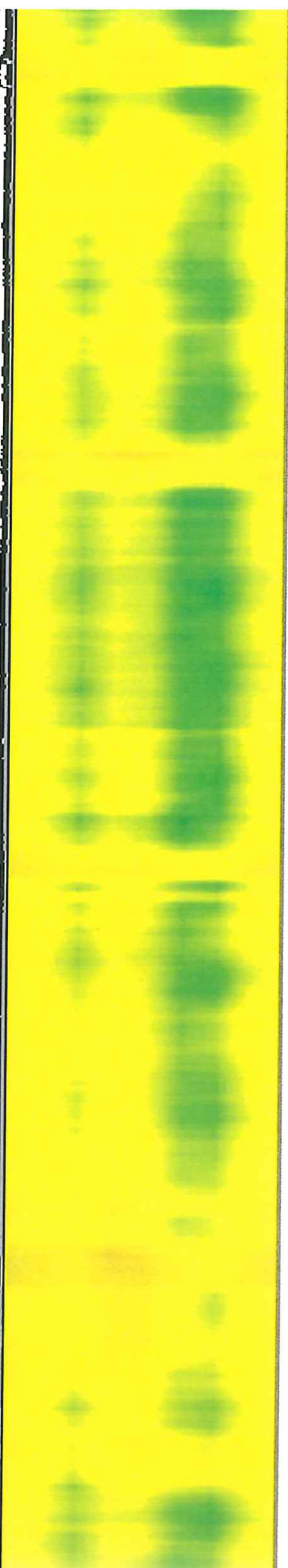
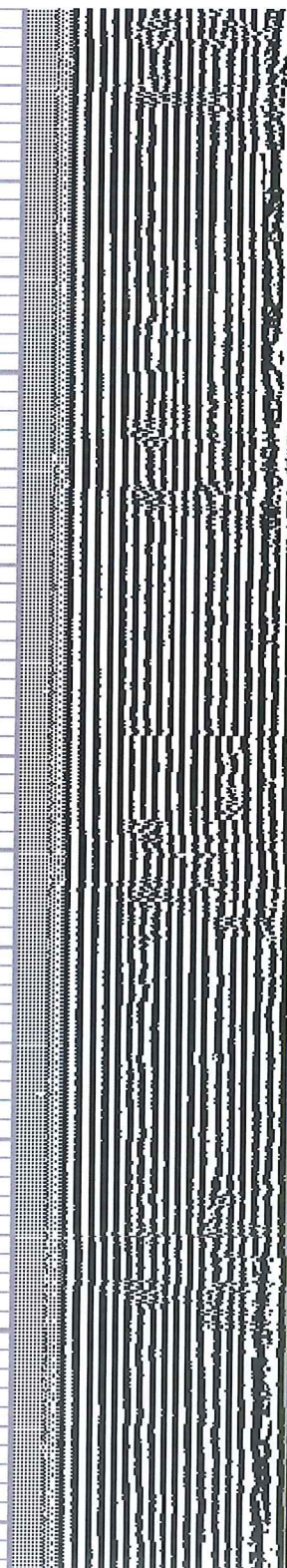
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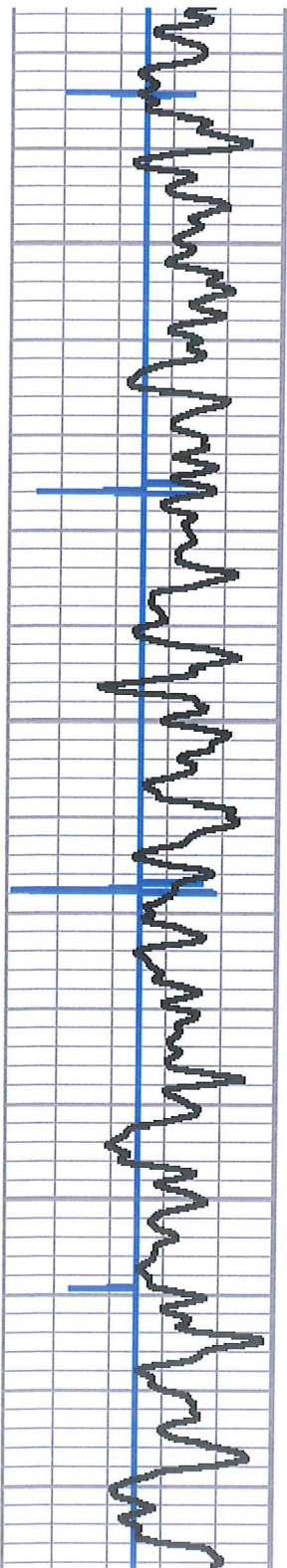
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4250



88

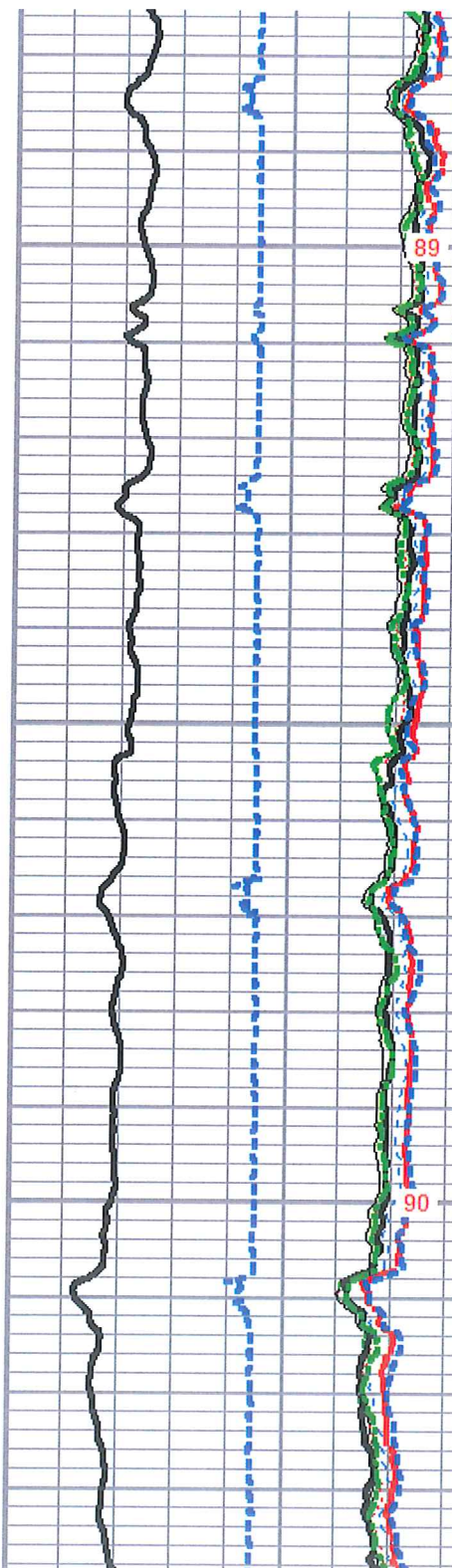




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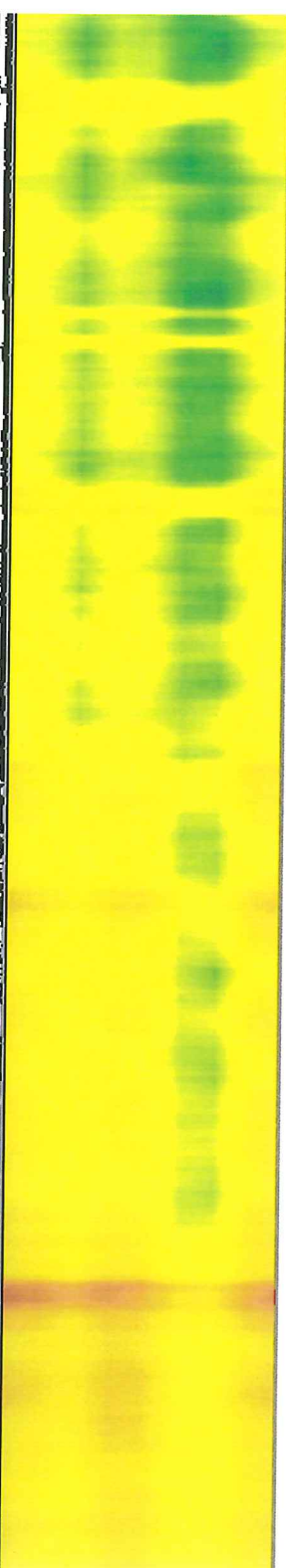
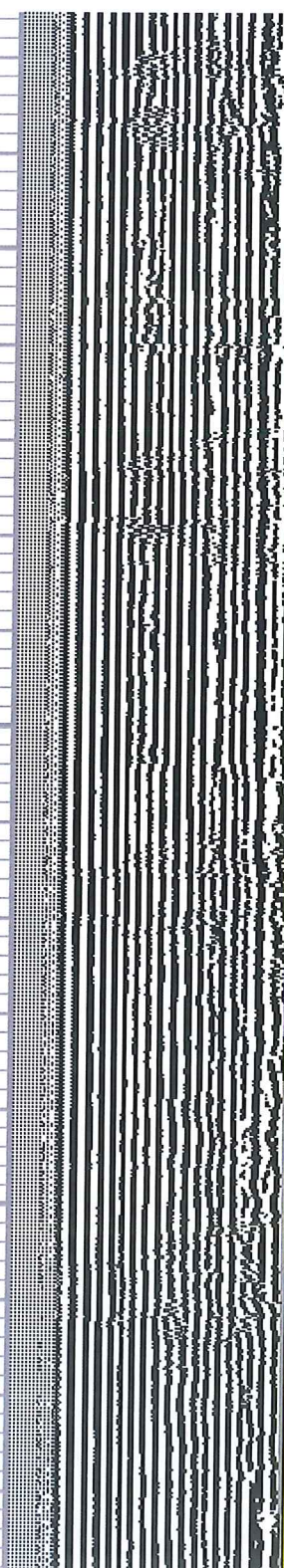
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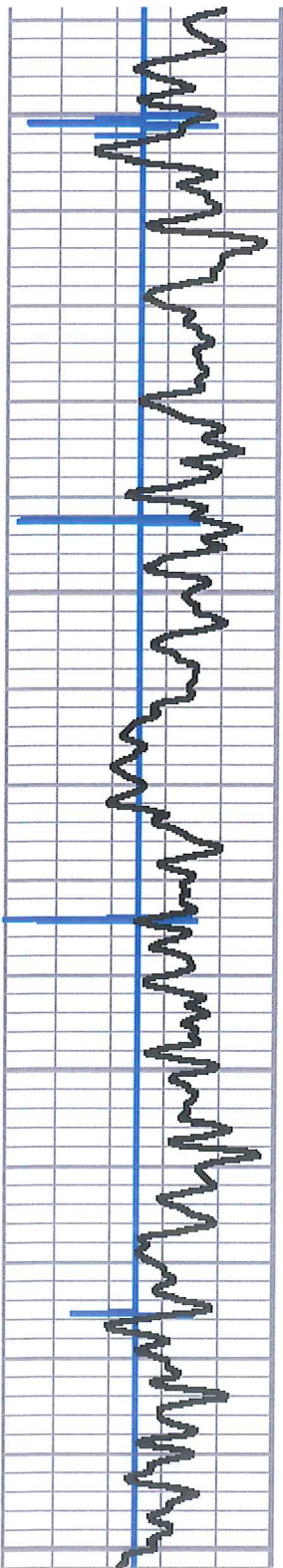
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89

90



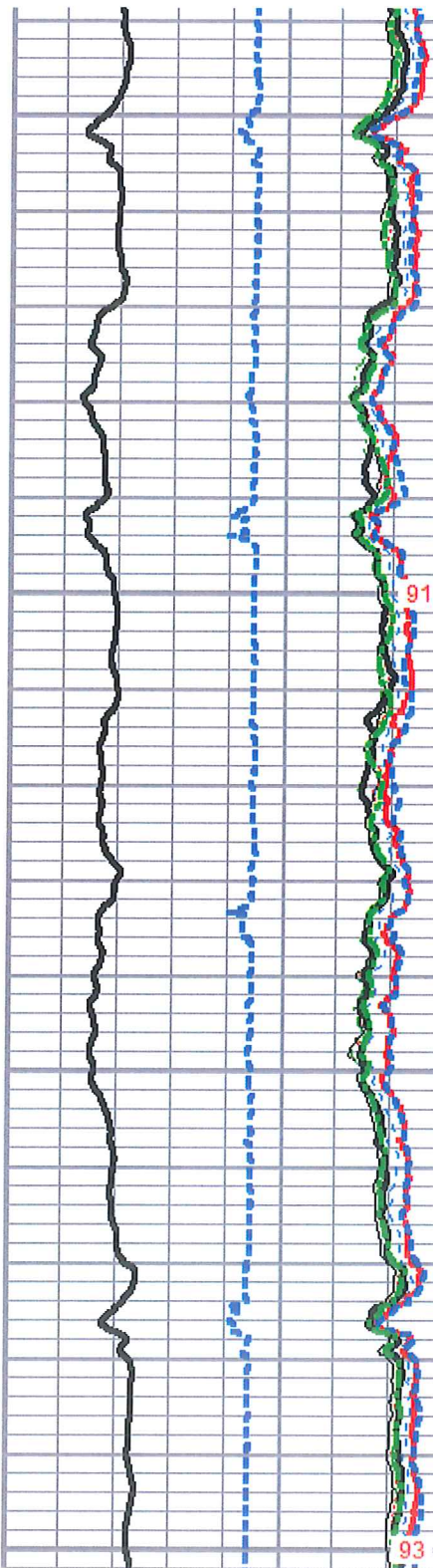


4450

4500

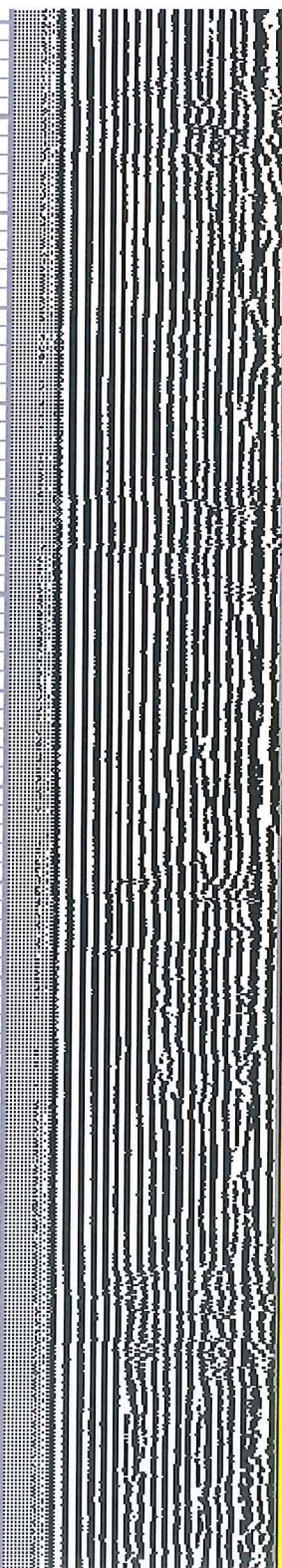
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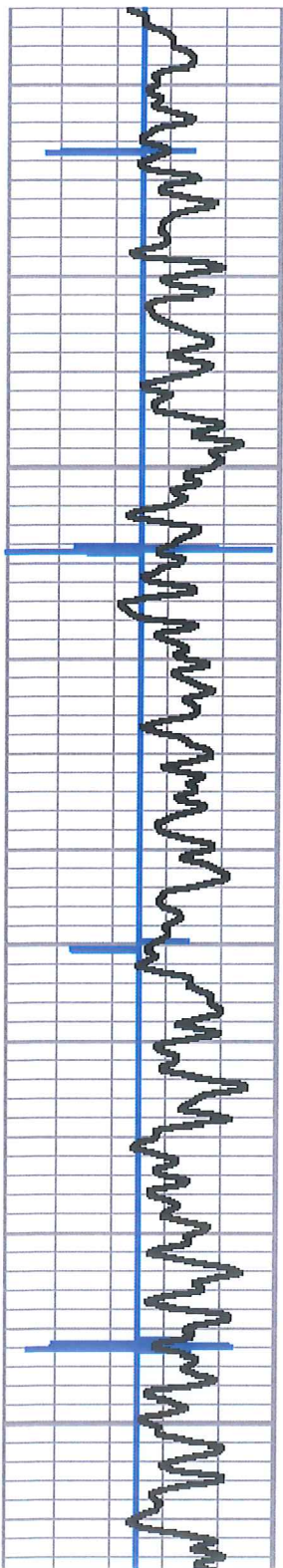


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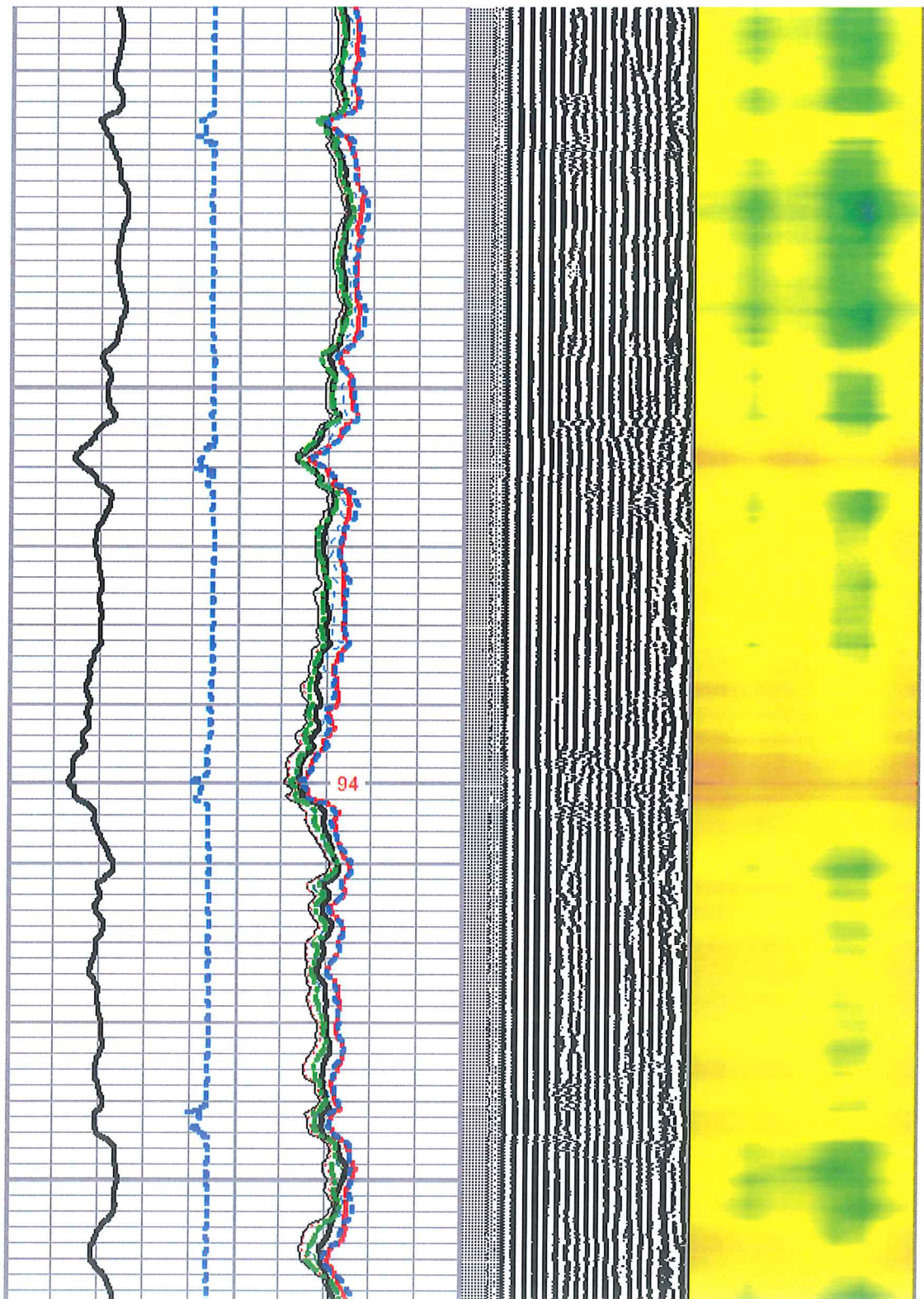


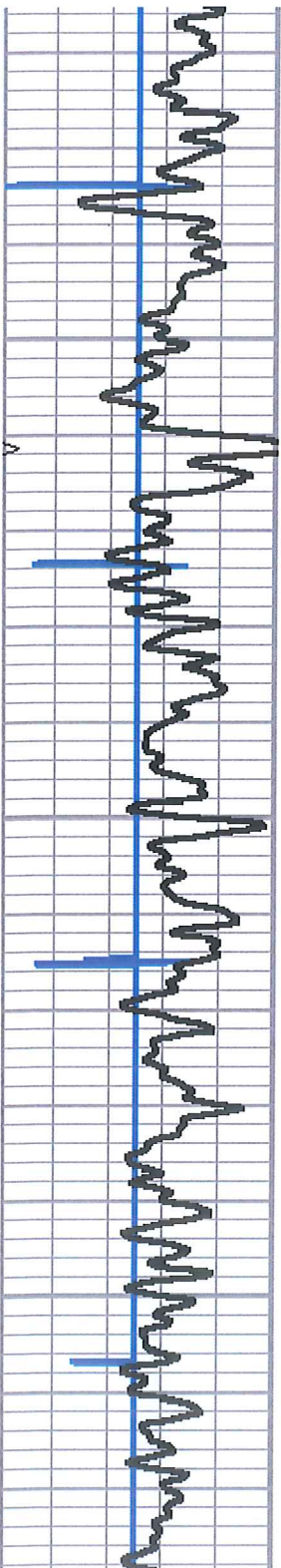


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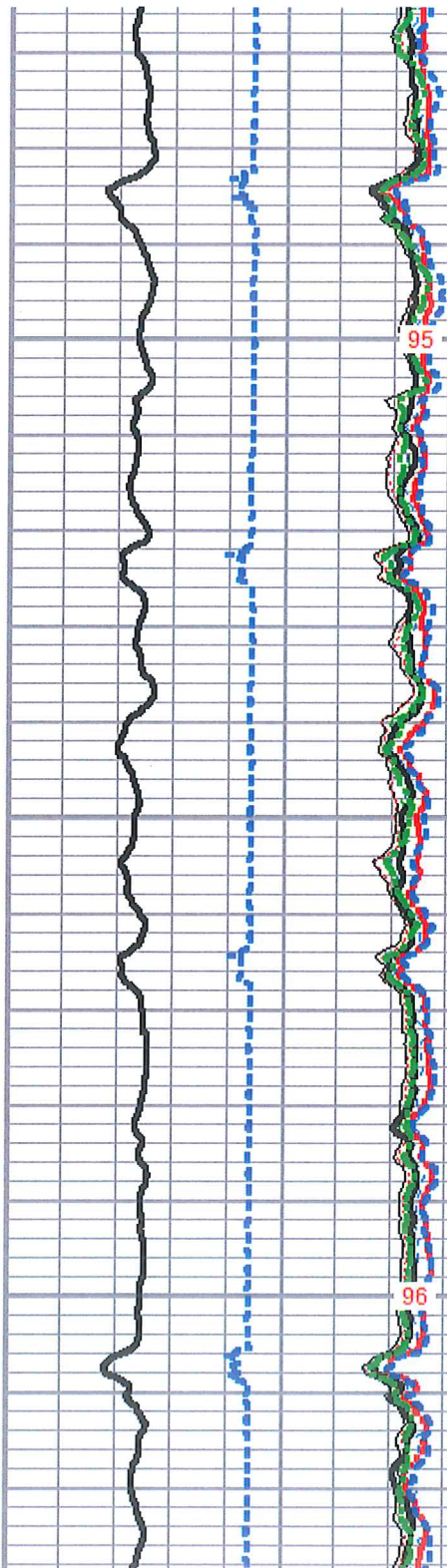




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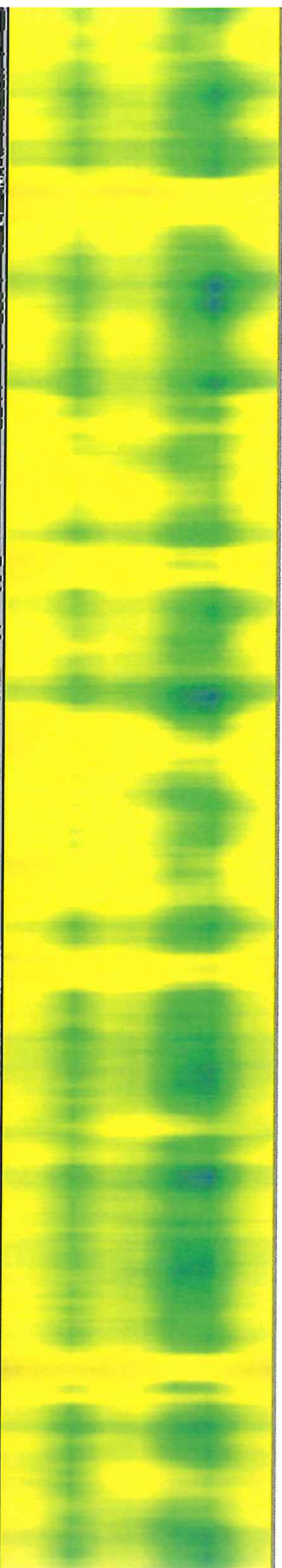
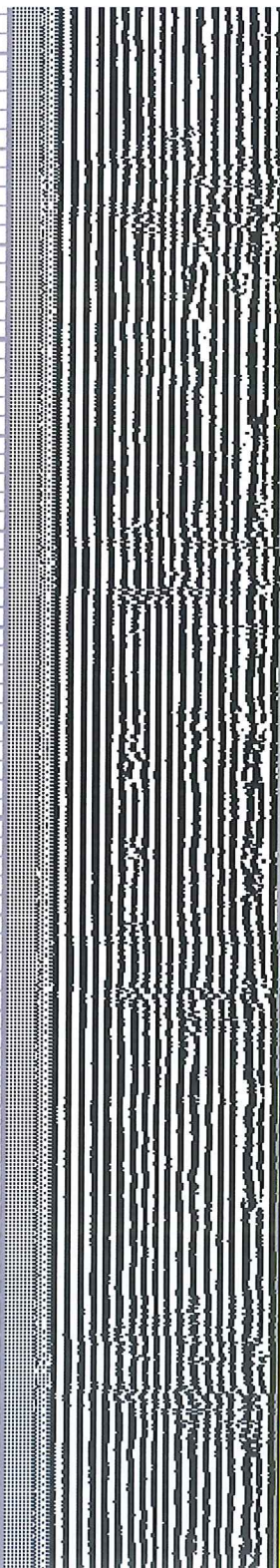
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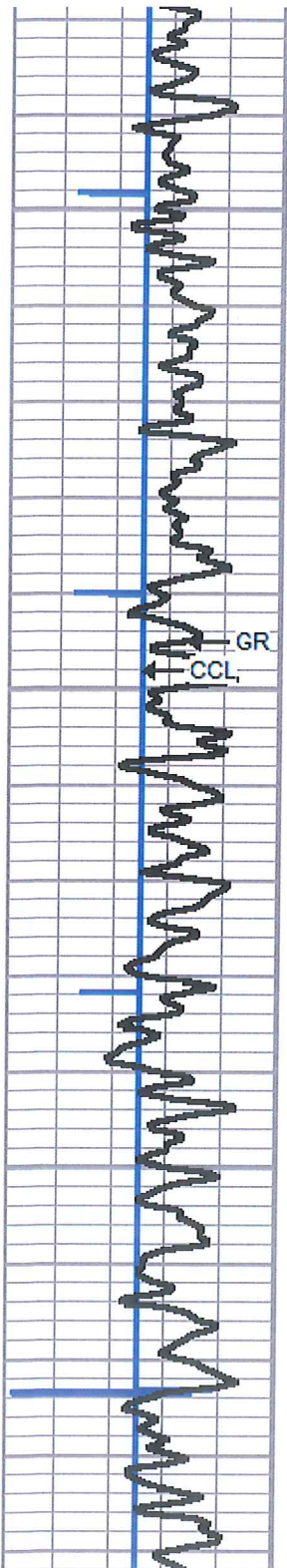
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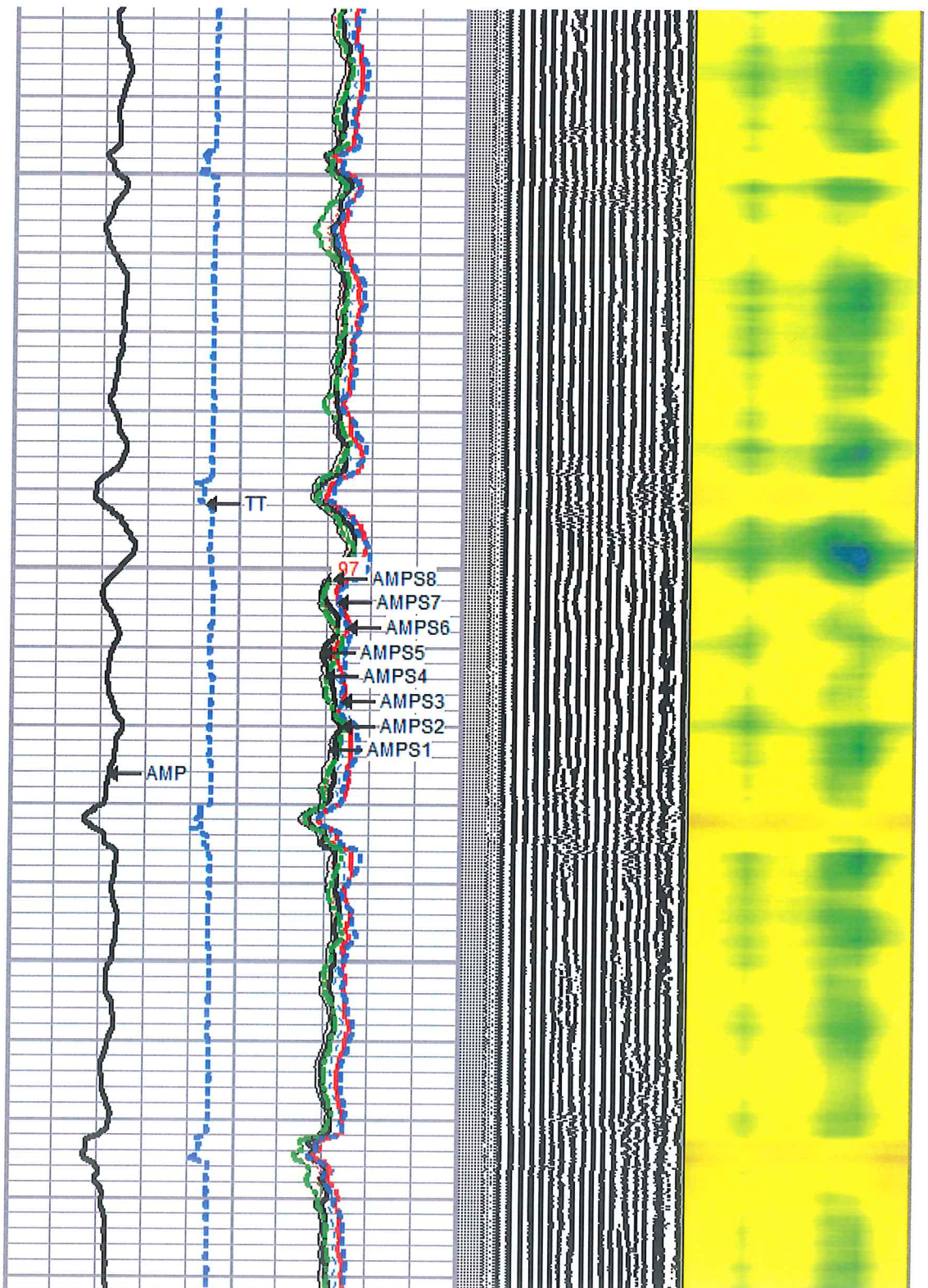


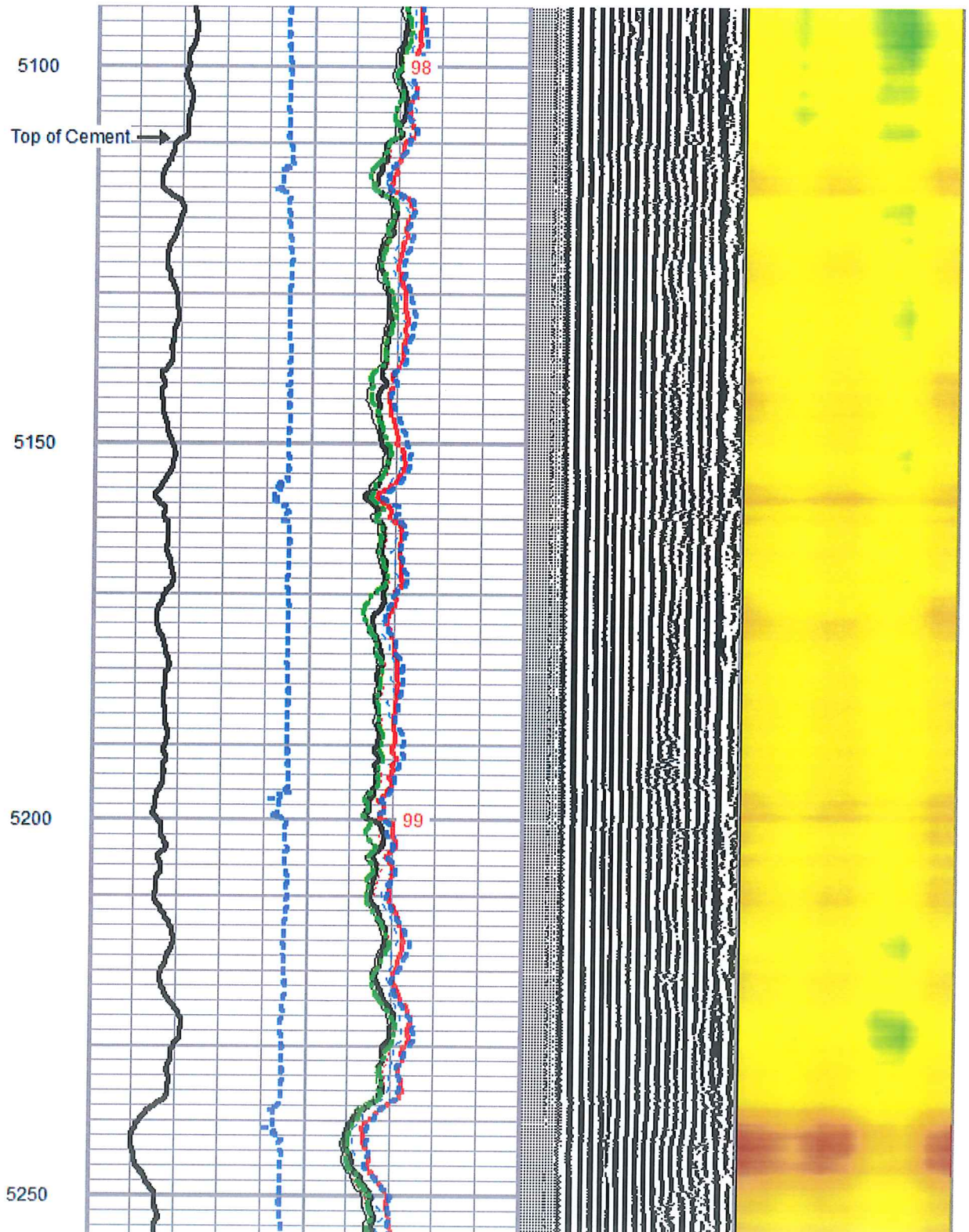
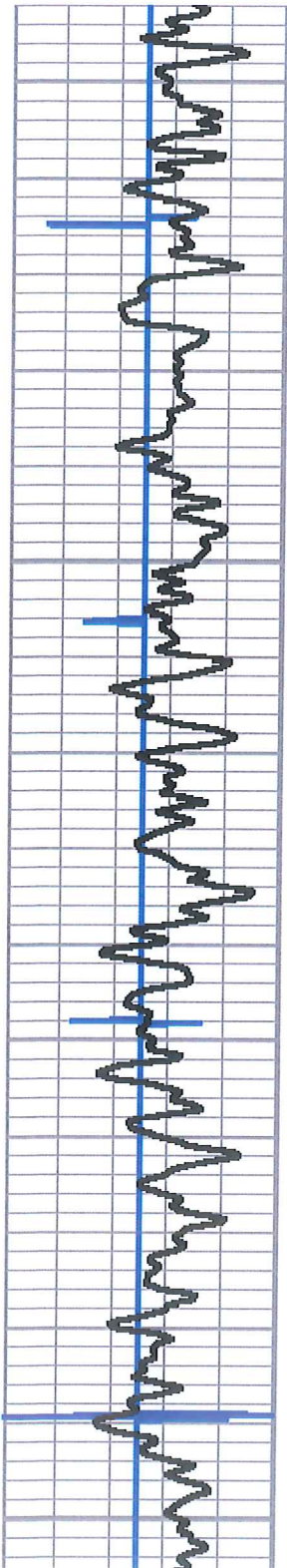


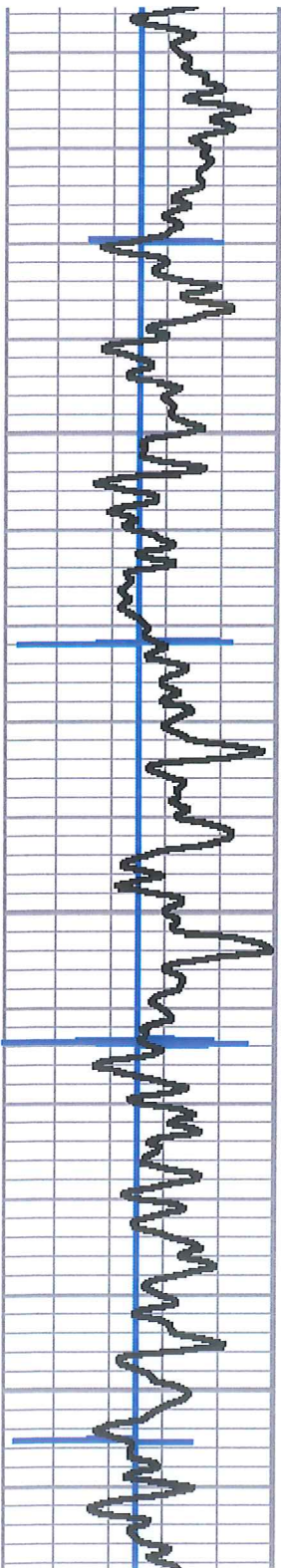
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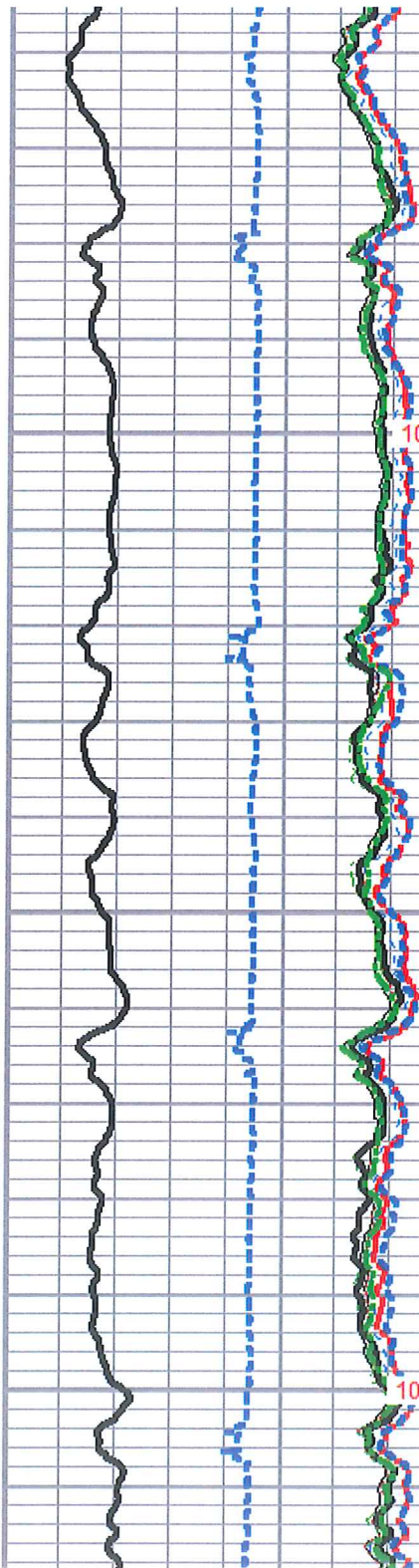




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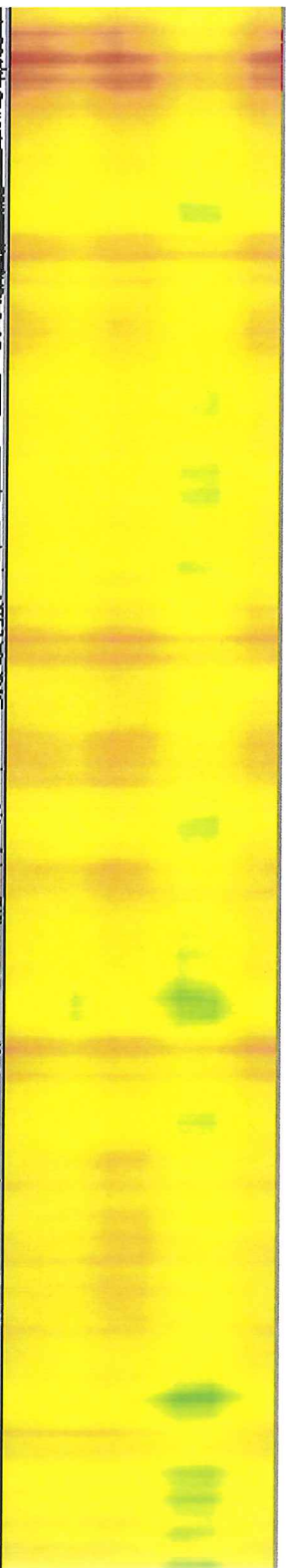
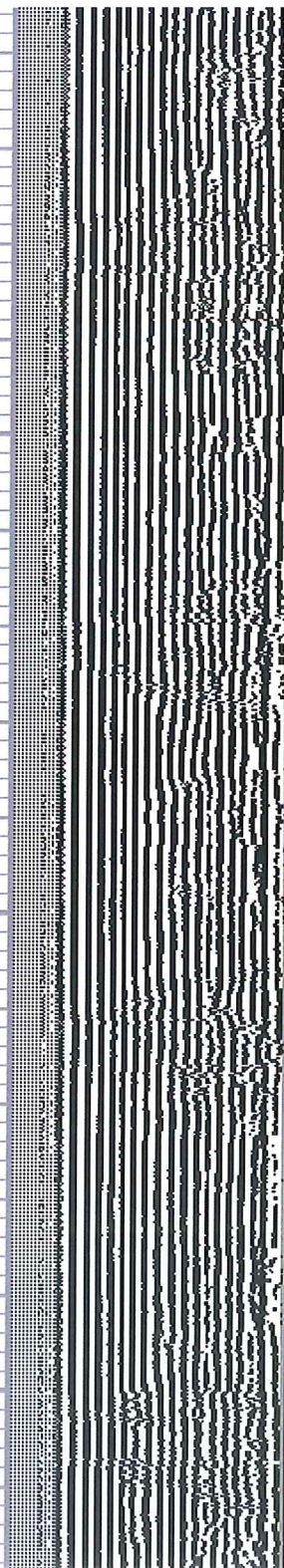
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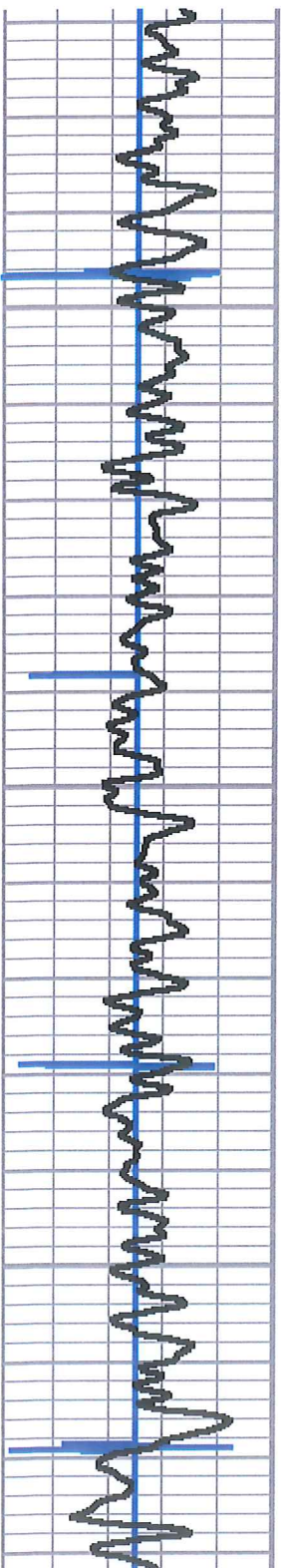
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101

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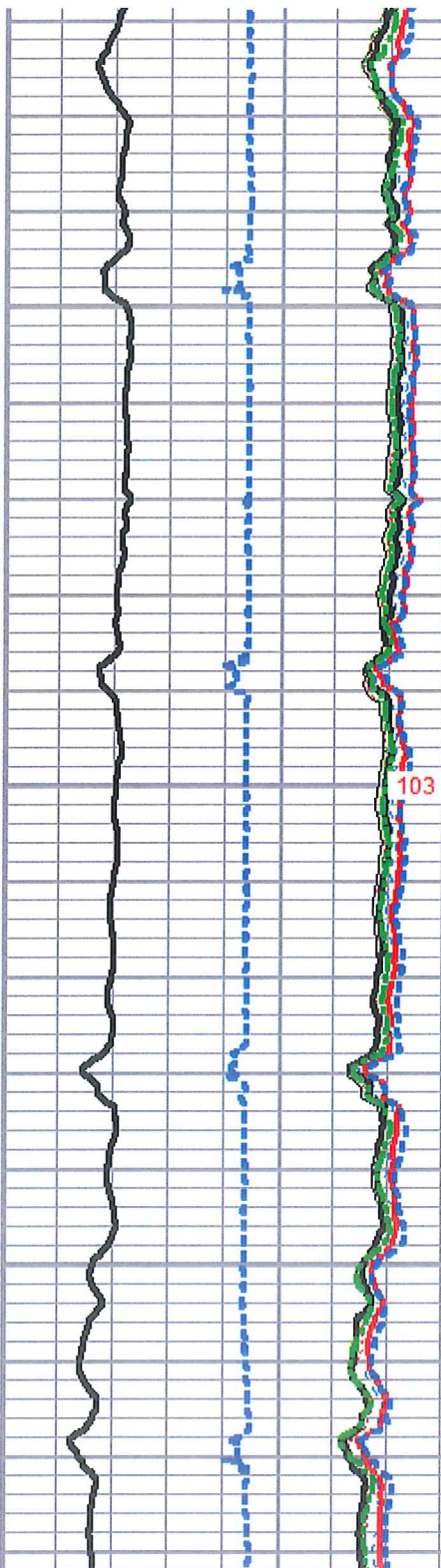




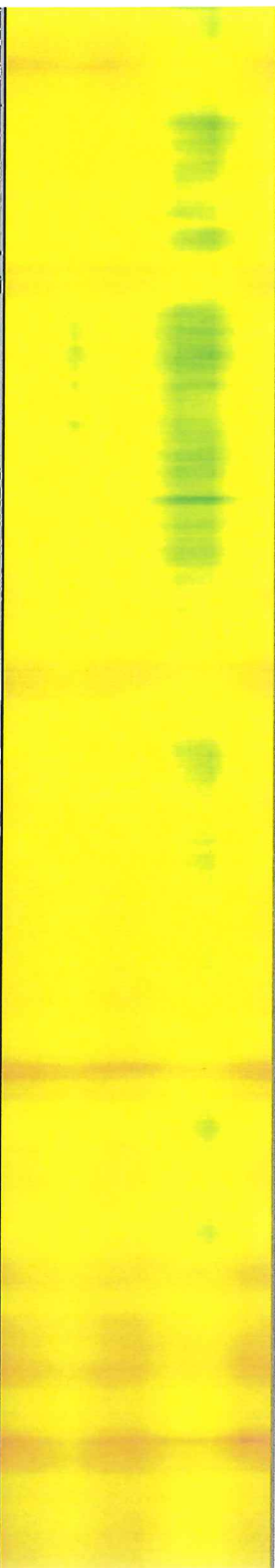
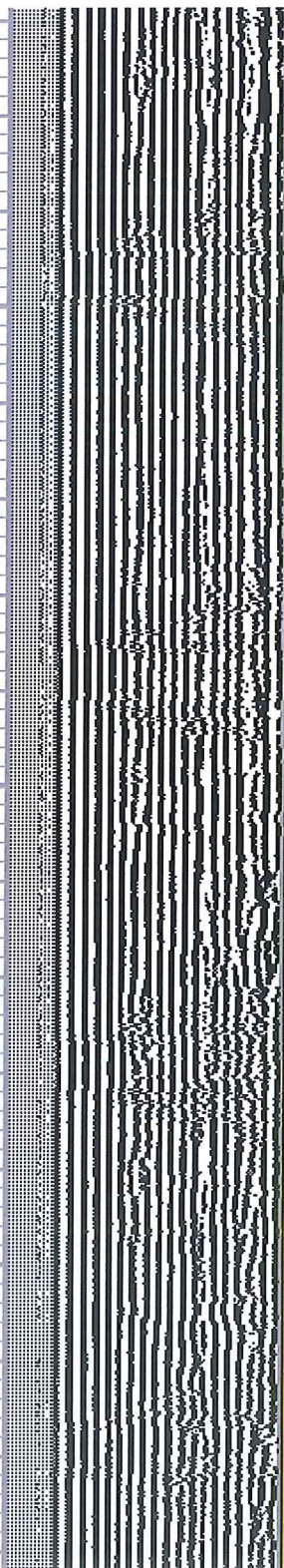
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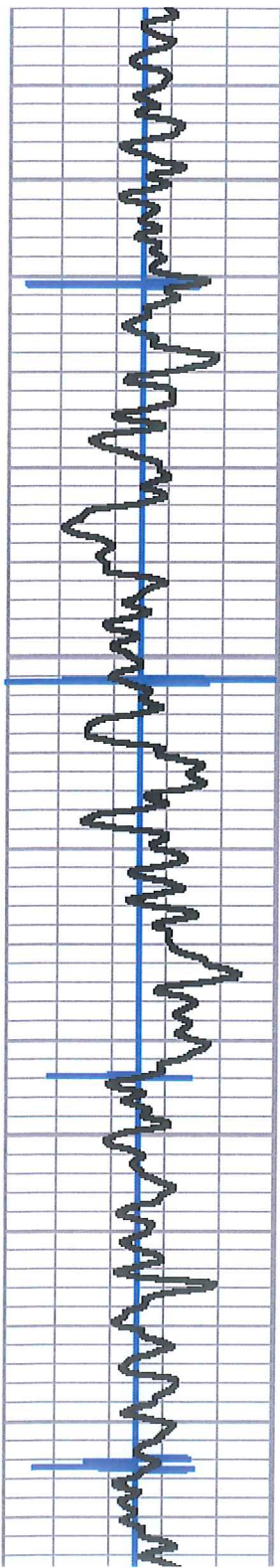
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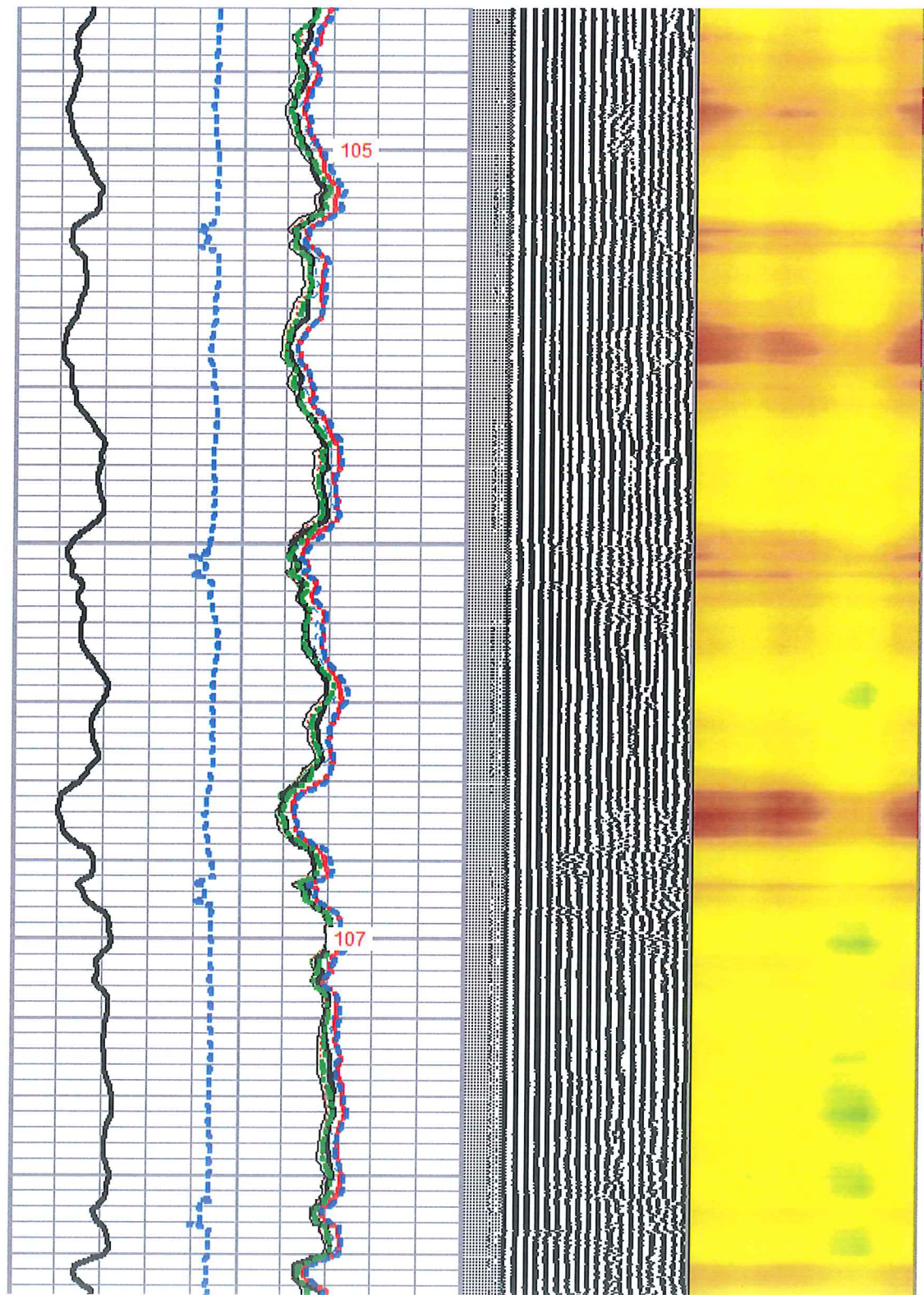


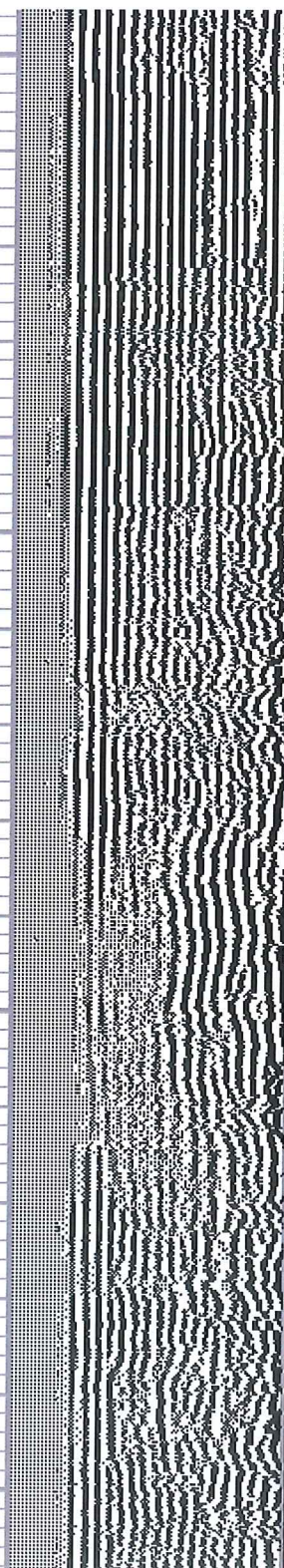
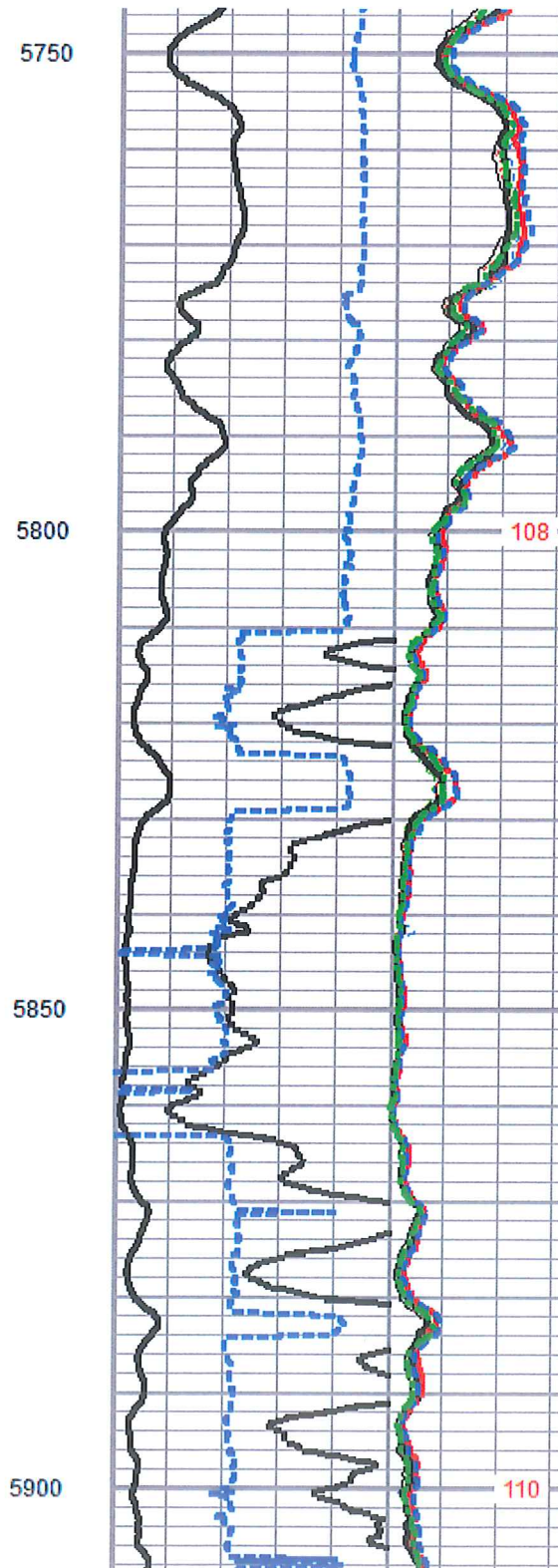
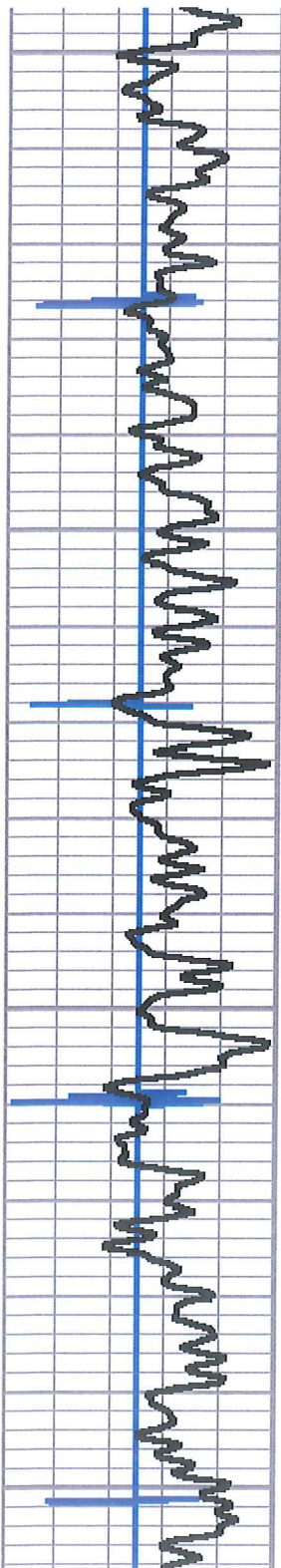


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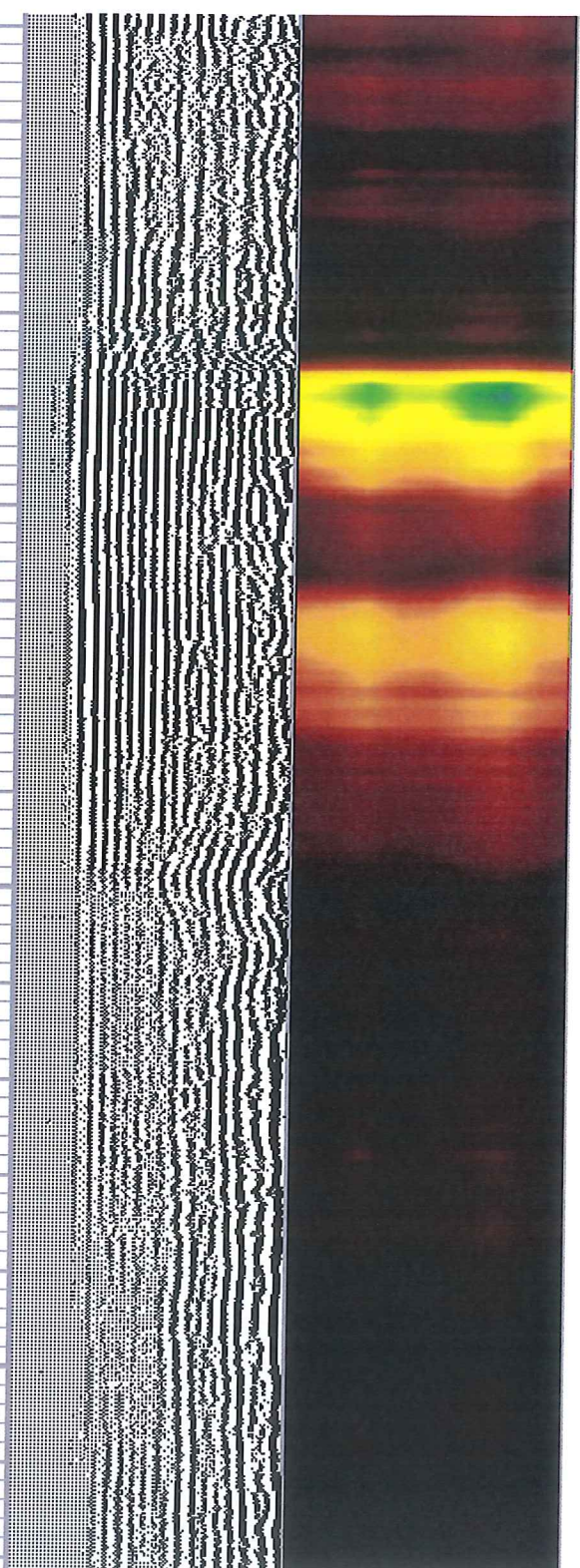
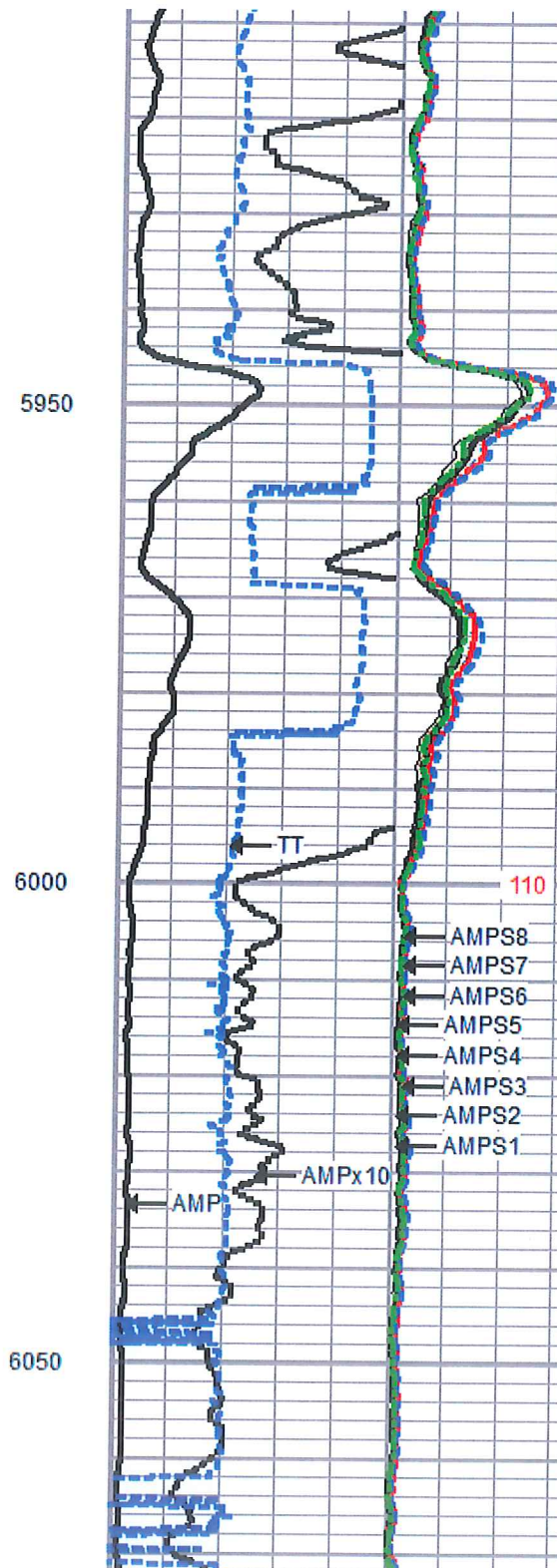
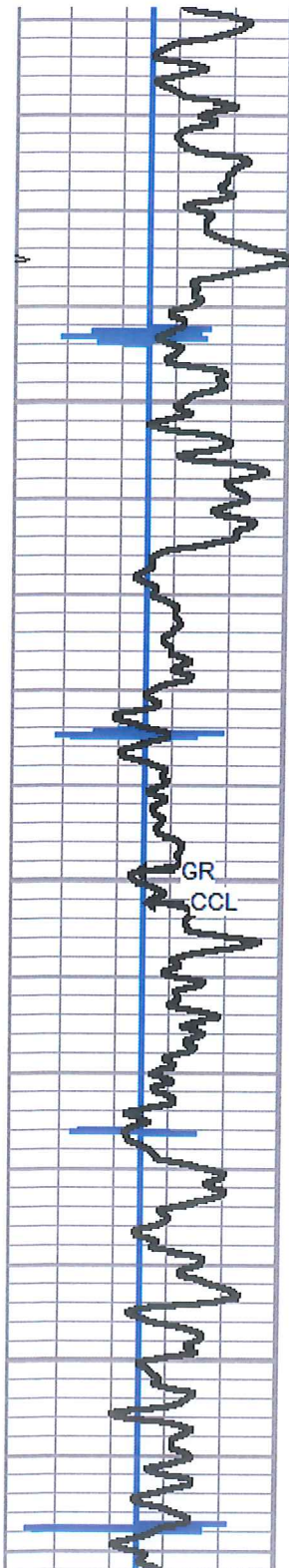
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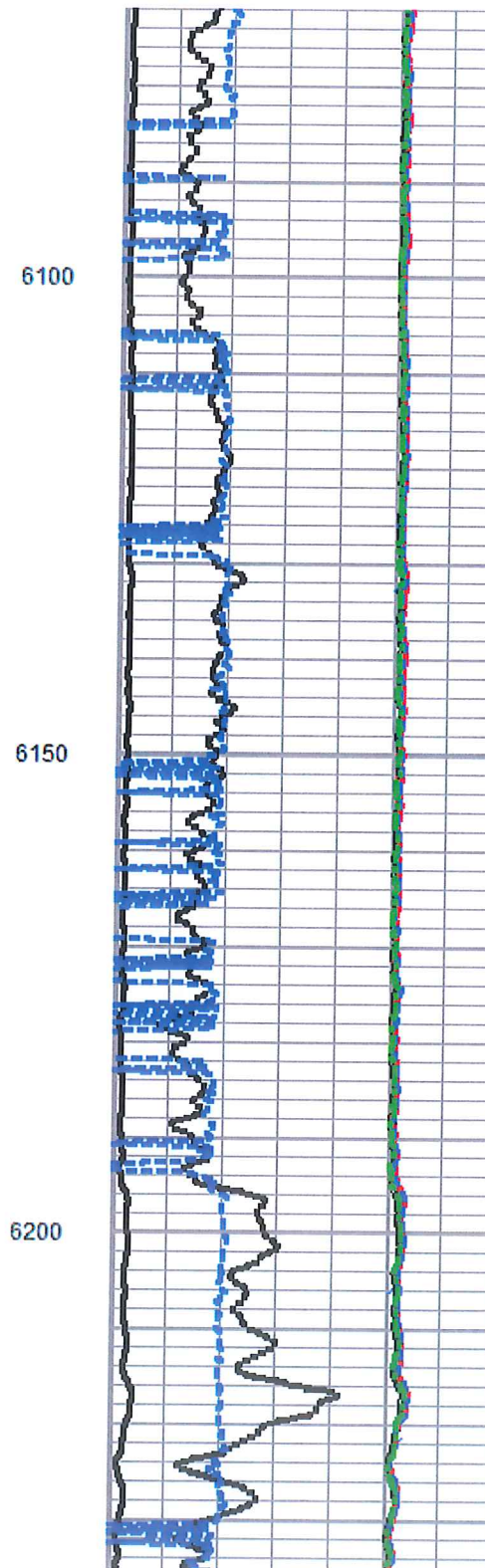
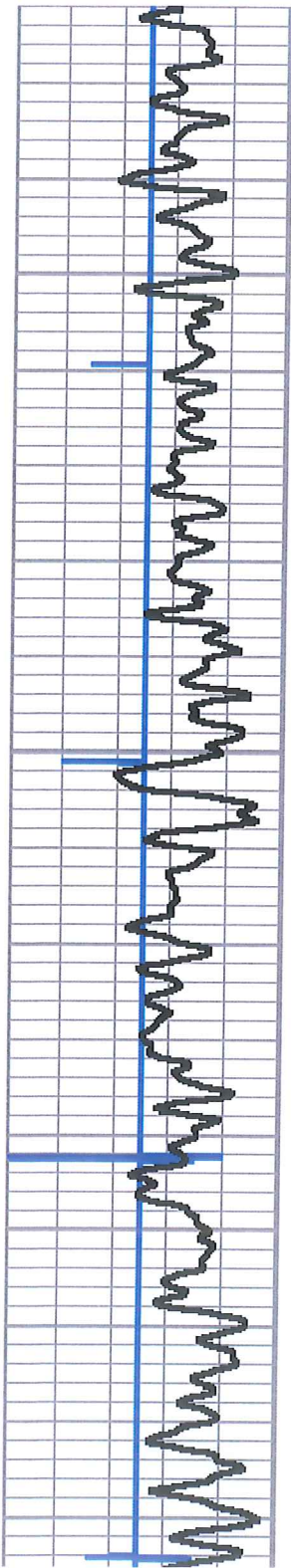
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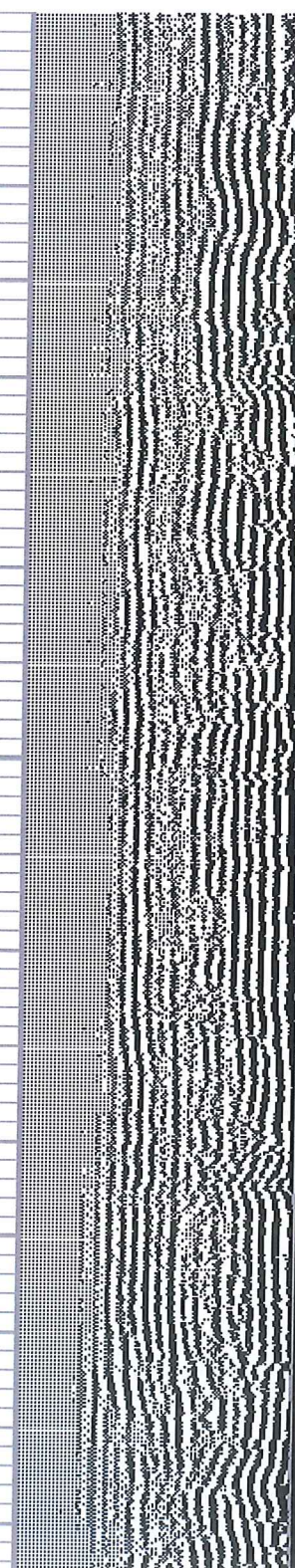


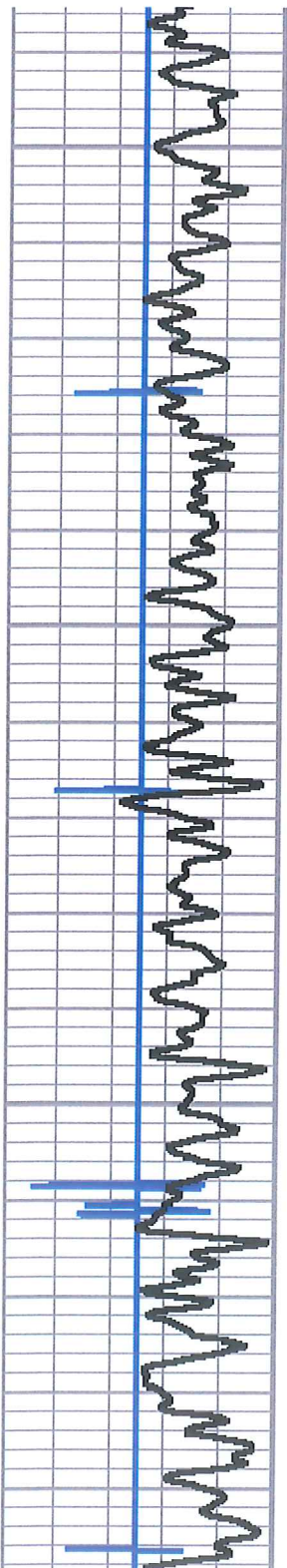




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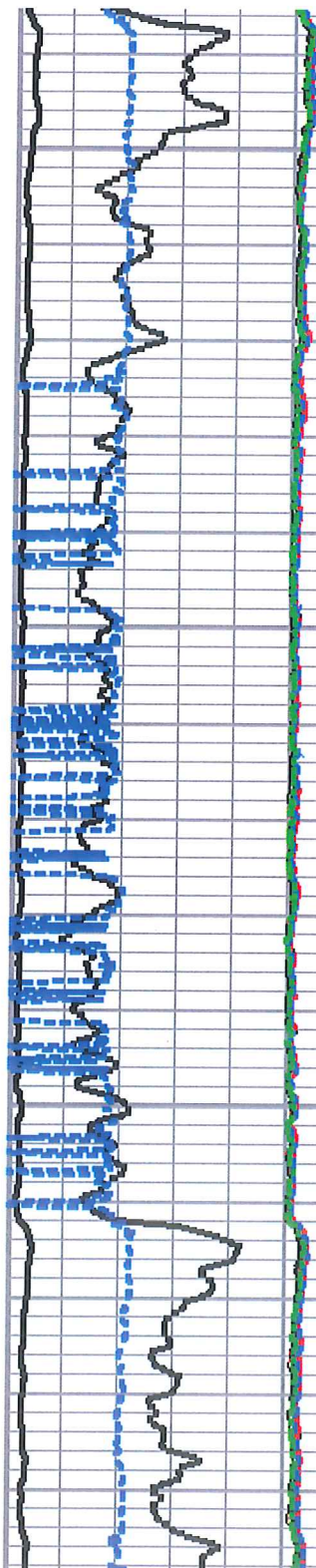




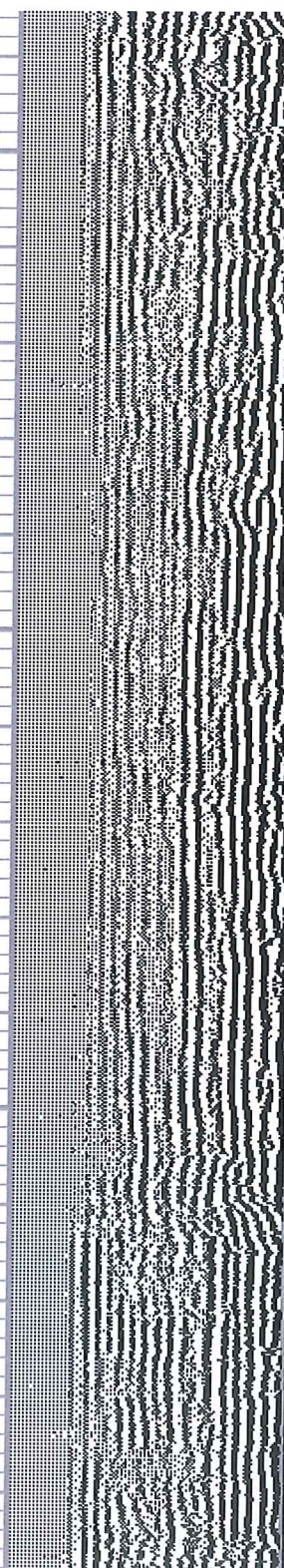
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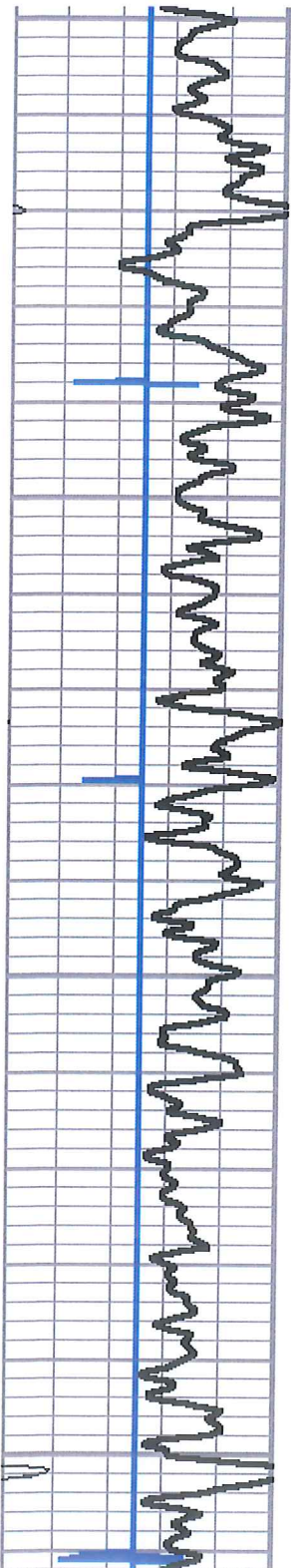
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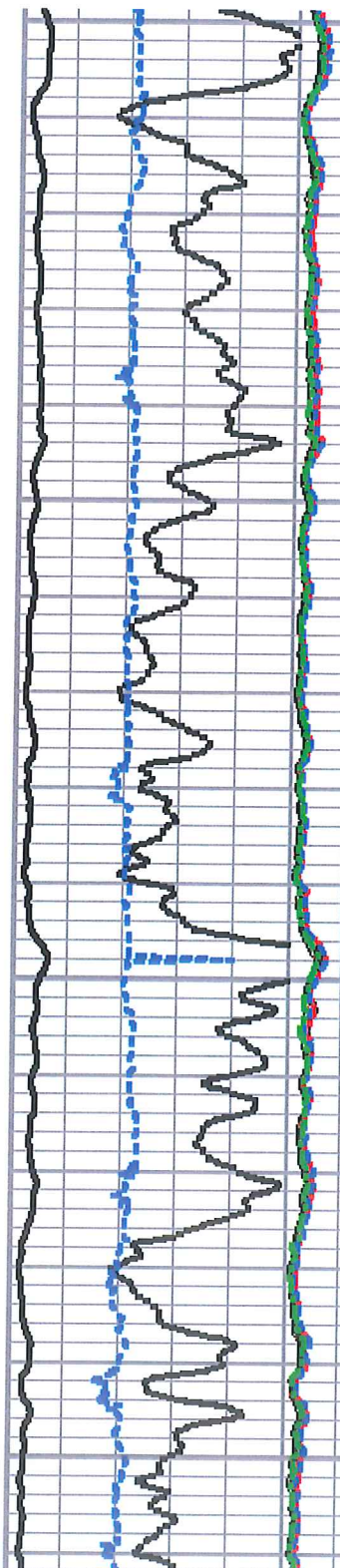


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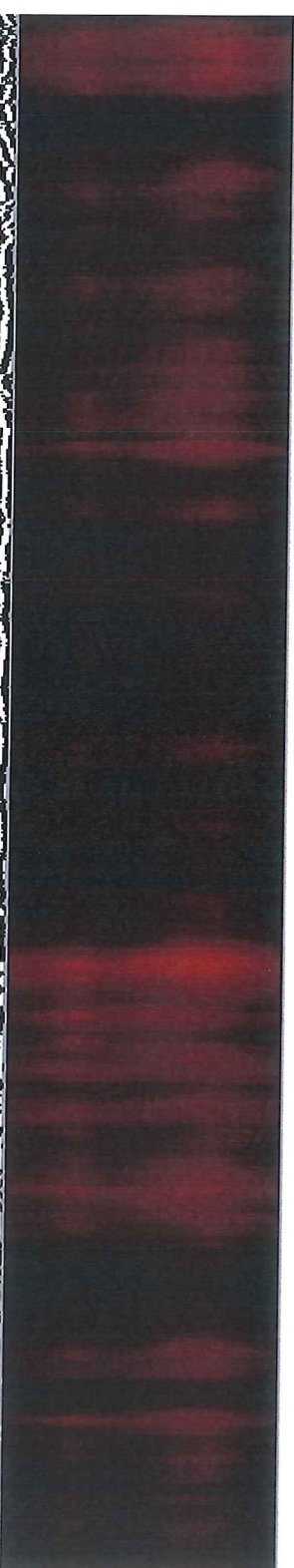
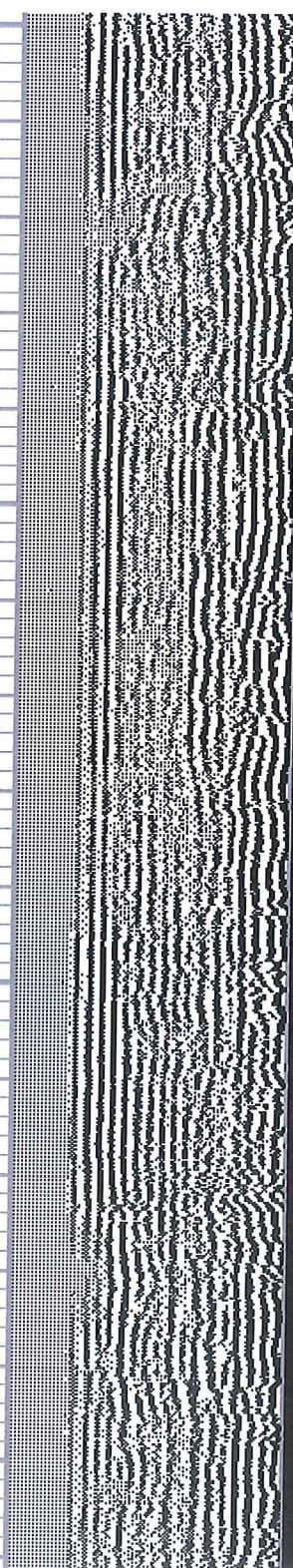


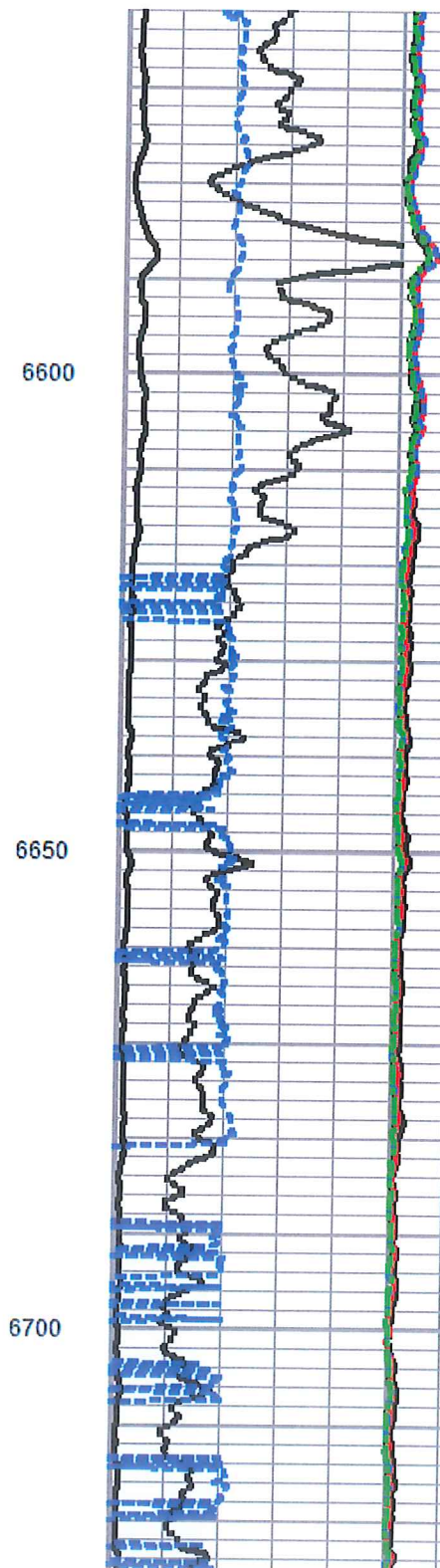
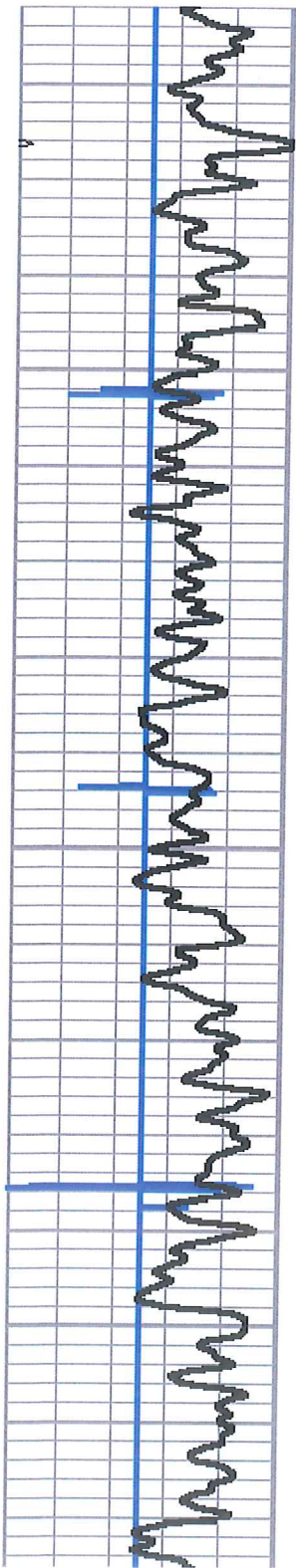


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6450  
6500  
6550



116  
118





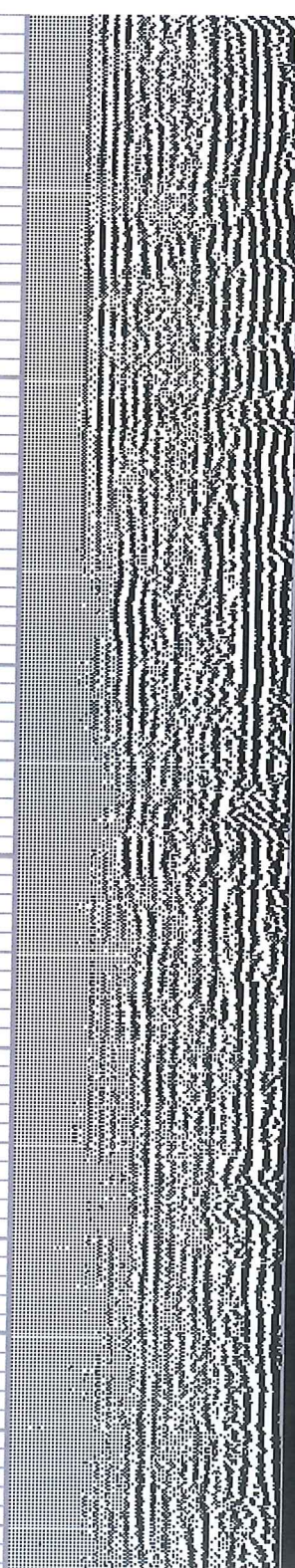
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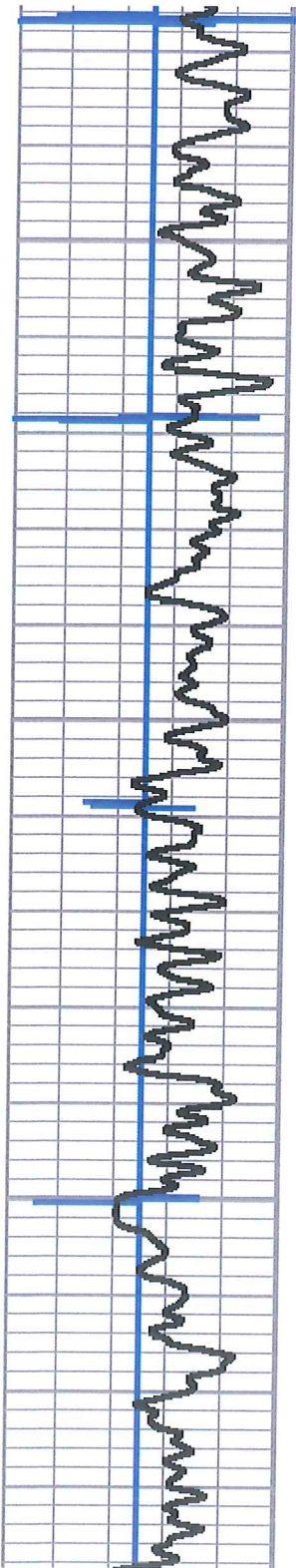
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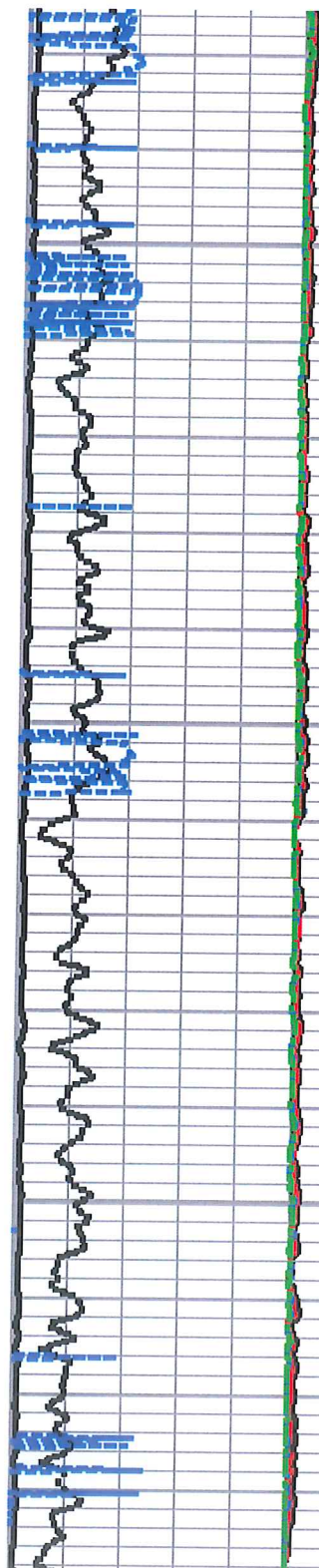




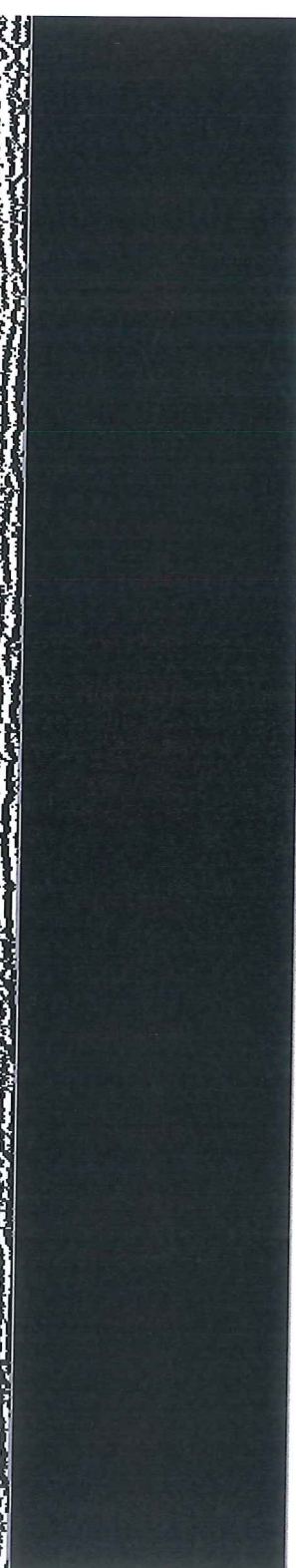
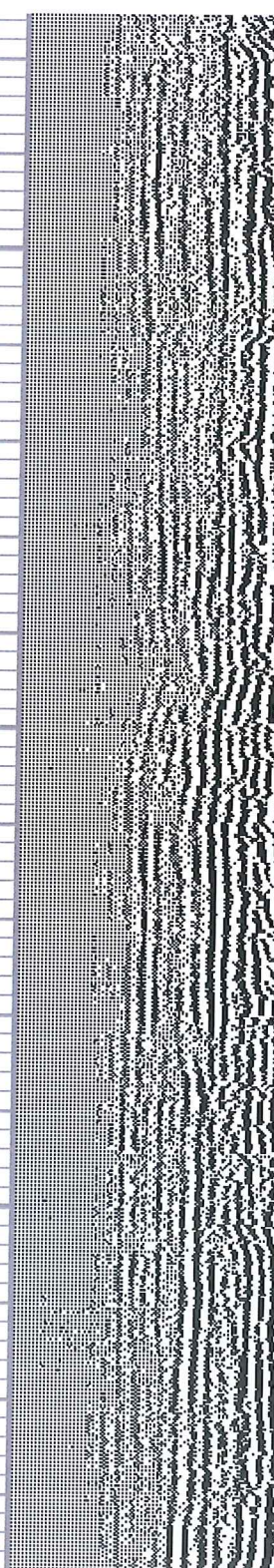
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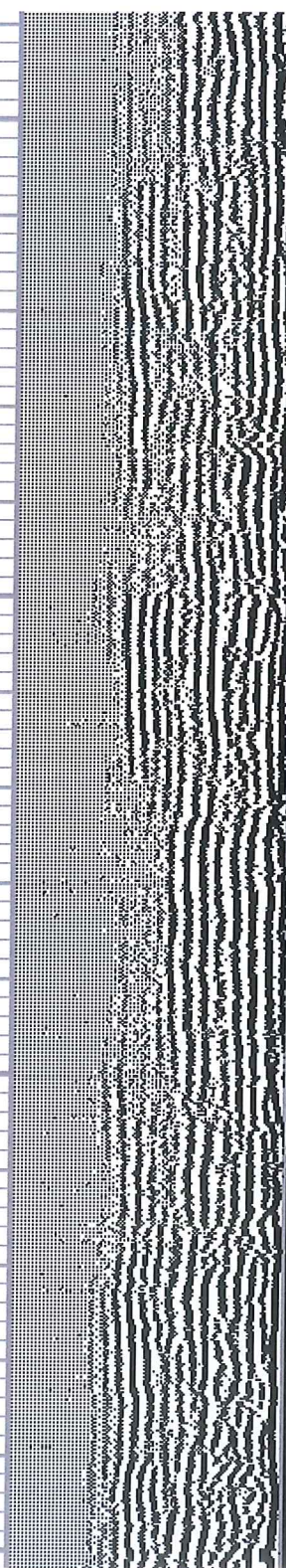
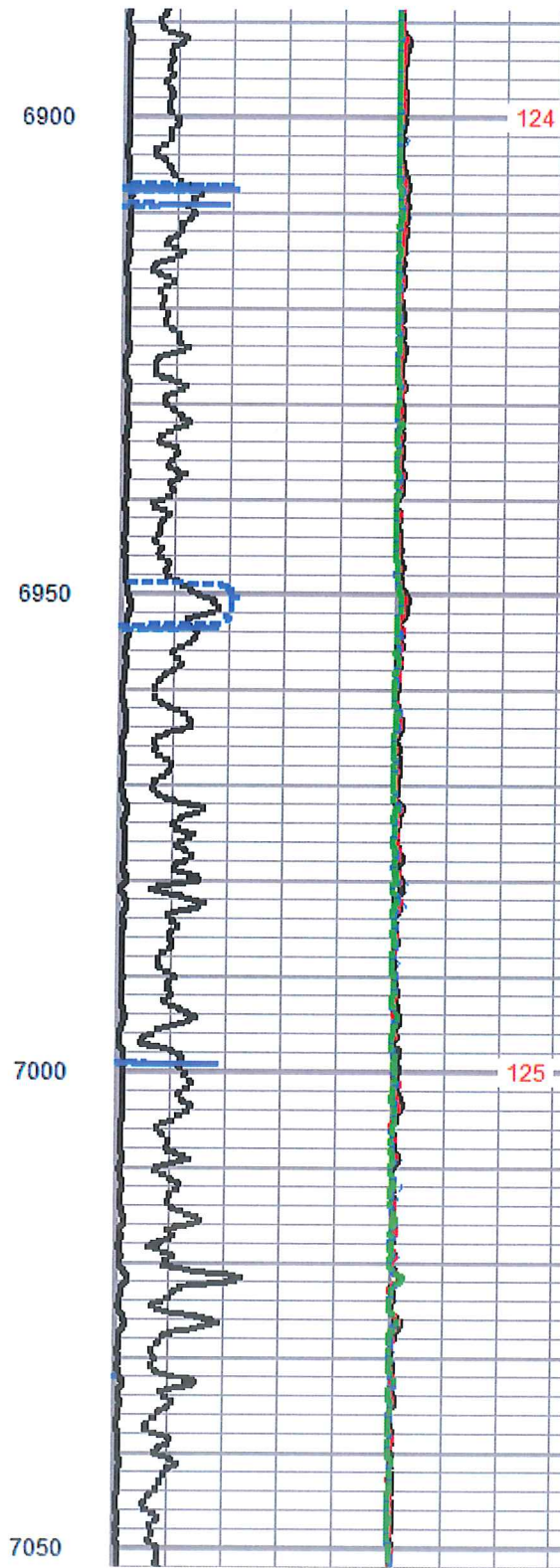
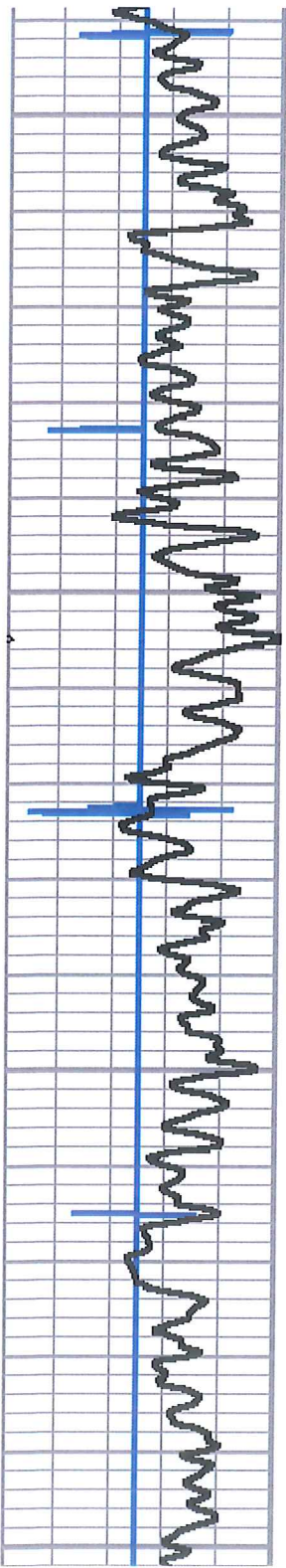
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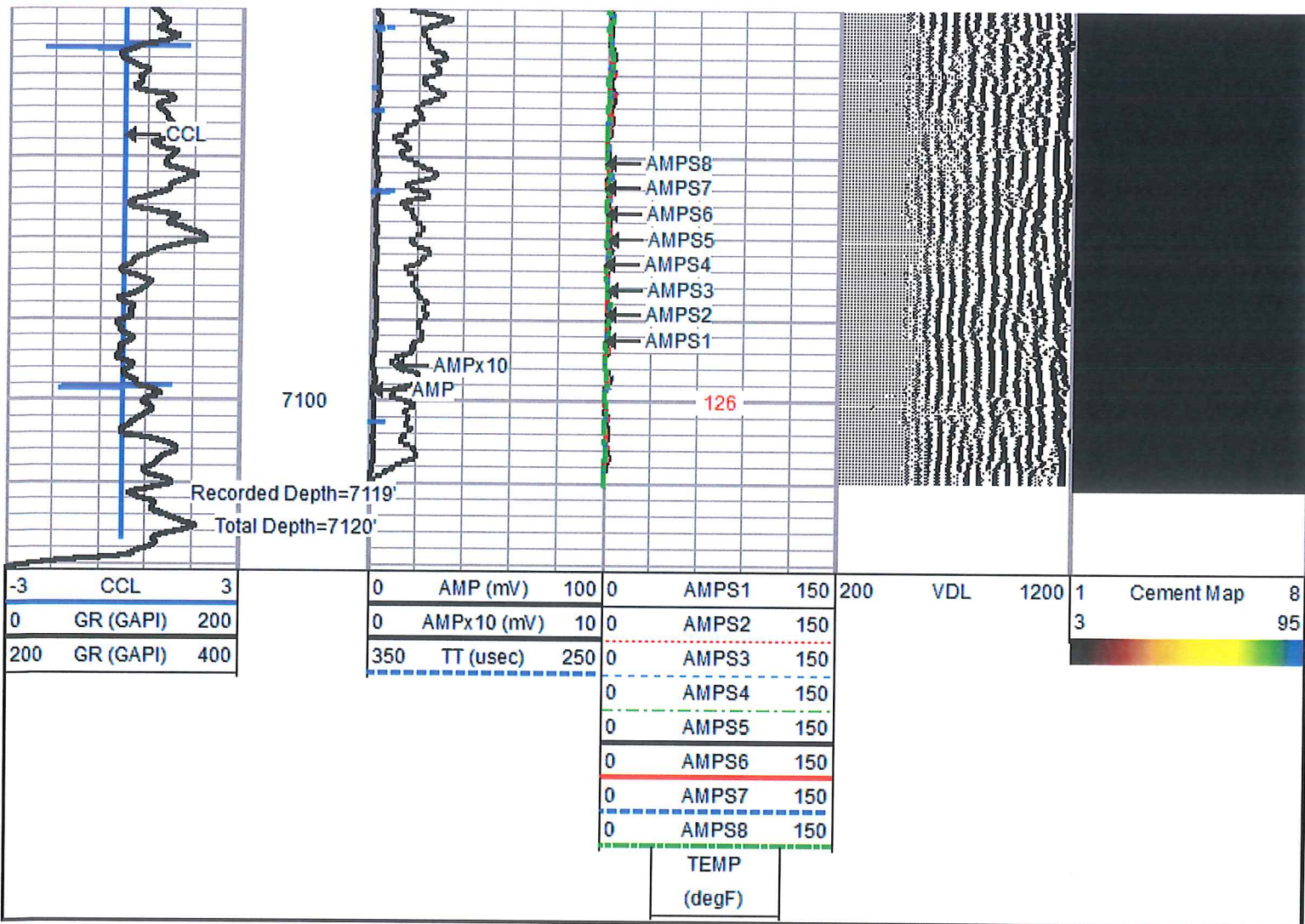
6850




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# REPEAT SECTION

Database File: deano 2h.db  
 Dataset Pathname: pass8  
 Presentation Format: scbl02  
 Dataset Creation: Sat Oct 25 08:44:15 2014 by Log 7.0 B1  
 Charted by: Depth in Feet scaled 1:240

-3	CCL	3	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

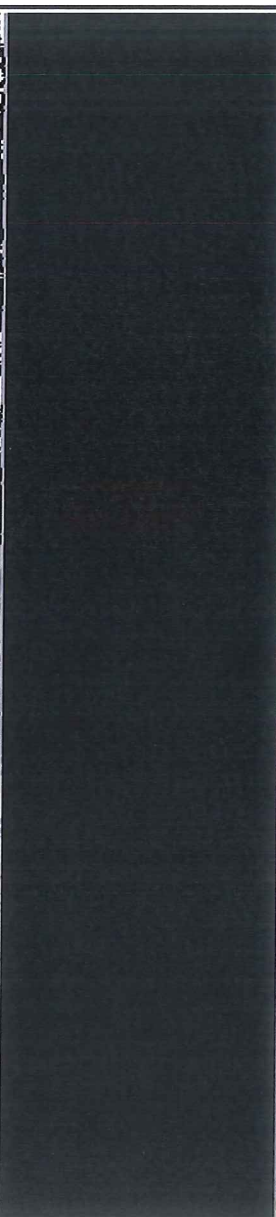
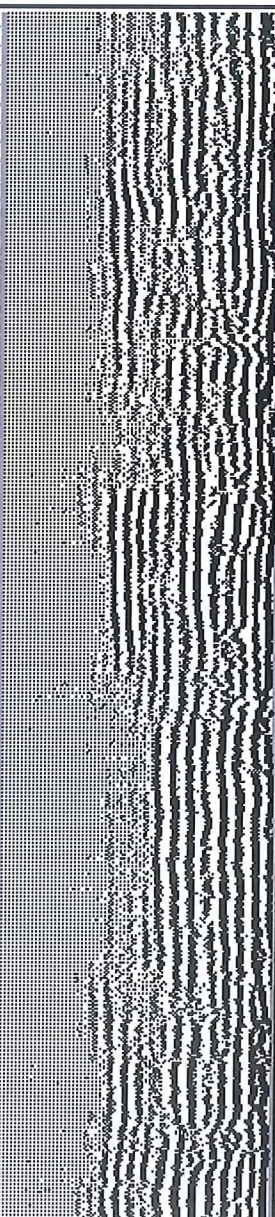
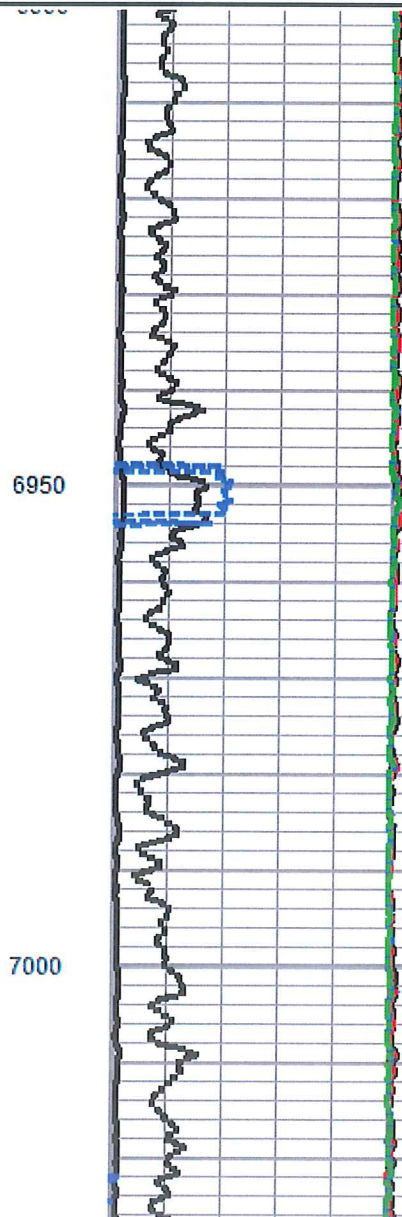
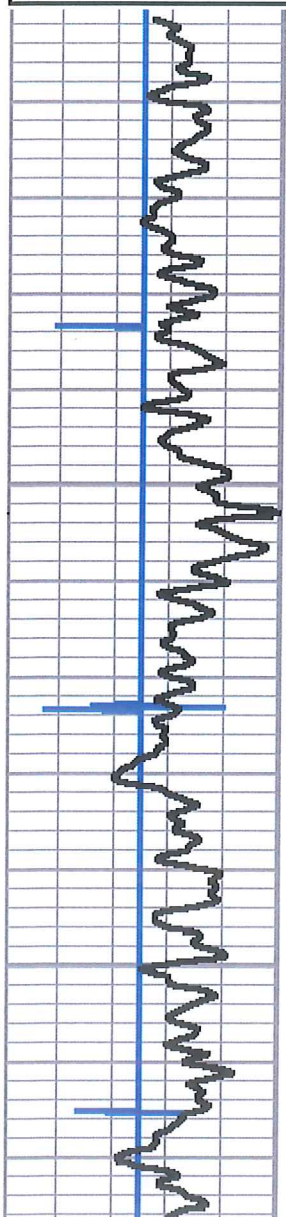


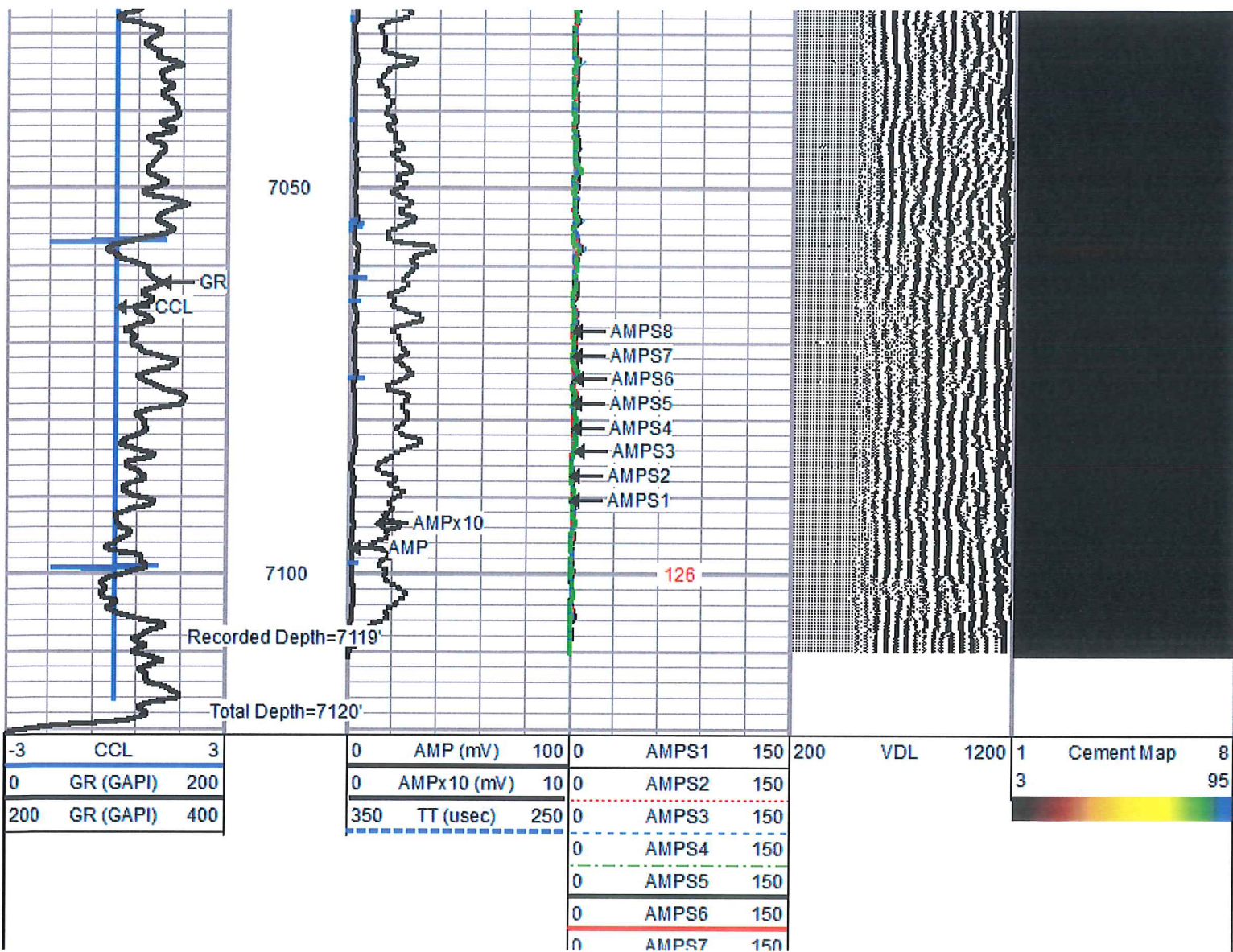
GR (GAPI)	200	400
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TT (usec)	350	250
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AMPS3	150
AMPS4	150
AMPS5	150
AMPS6	150
AMPS7	150
AMPS8	150

TEMP  
(degF)





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		RBT-Probe275T (FW1404-143_5.5INCH) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	100.00	
WVFS1	11.68						
WVFS2	11.68						
WVFS3	11.68						

