



**RADIAL BOND GAMMA RAY-CCL
TEMP**

Company ANTERO RESOURCES
Well AMANDA 2H
Field WEST UNION
Country DODDRIDGE
State WV. **Country USA.**

Location: **API # : 47017064320000** **Other Services**

SEC	TWP	RGE	Elevation
			K.B. 1014'
Permanent Datum	GL		D.F. 1013'
Log Measured From	K.B.25'		GL. 989'
Drilling Measured From	K.B.25'		

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

Date	10-6-14
Run Number	ONE
Depth Driller	
Depth Logger	6500'
Bottom Logged Interval	6499'
Top Log Interval	SURFACE
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	146
Estimated Cement Top	432'
Time Well Ready	9:15
Time Logger on Bottom	9:45
Equipment Number	5982
Location	CLARKSBURG WV.
Recorded By	E.BUTCHER
Witnessed By	R.COOK

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record		Size	Wd/Ft	Top		Bottom	
Surface String							
Prod String							
Production String		5.5"	20LBS.	SURFACE		12,505.17	
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.25'

Calibration Report

Database File: amanda 2h.db
Dataset Pathname: pass3
Dataset Creation: Mon Oct 06 21:45:57 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 Mon Oct 06 21:21:03 2014:

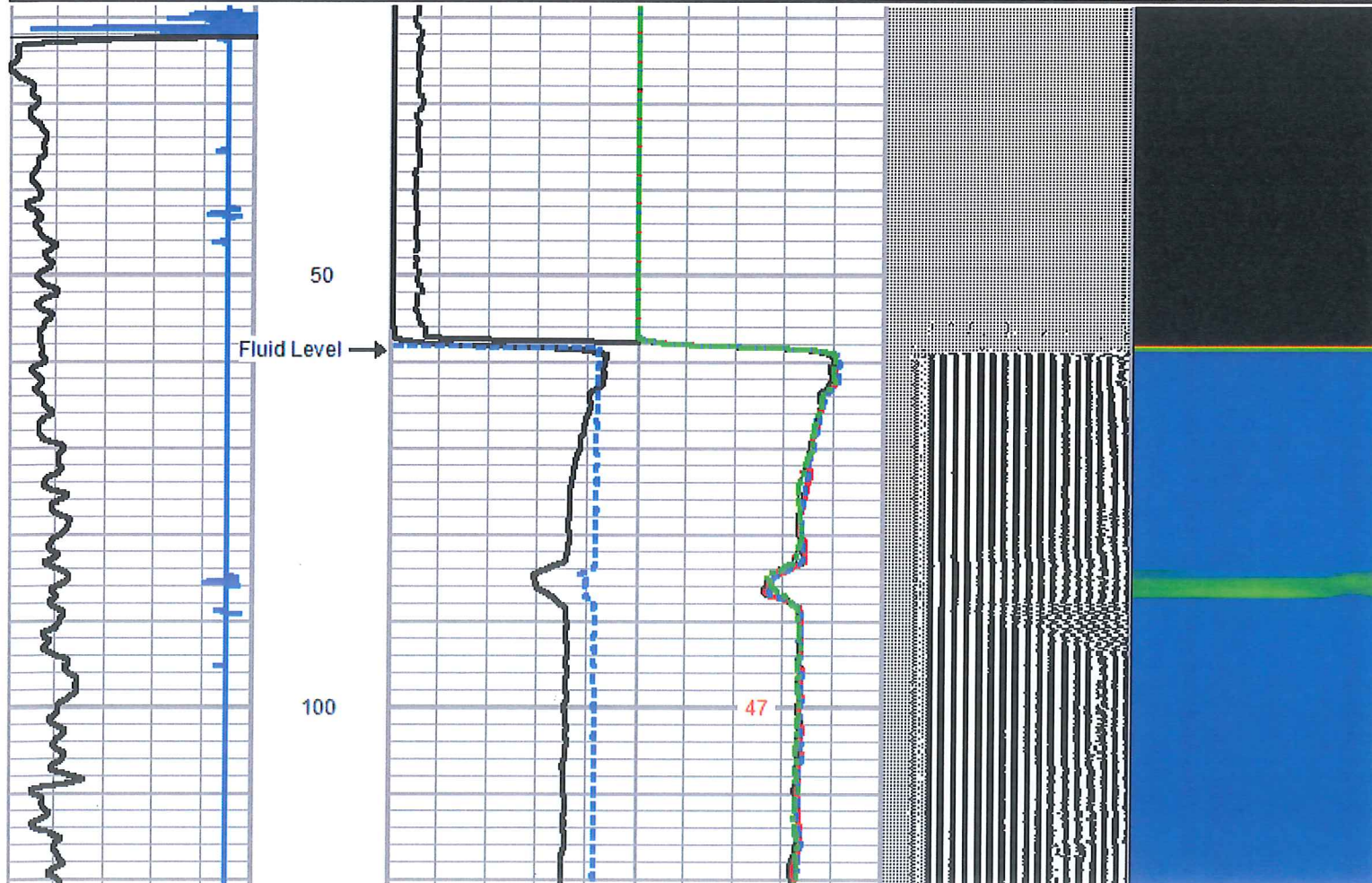
	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.011		0.000		-0.000	
5'	0.014		0.000		-0.004	
SUM						
S1	0.006		0.000		-0.002	
S2	0.012		0.000		-0.002	
S3	0.013		0.000		-0.004	
S4	0.015		0.000		-0.005	
S5	0.015		0.000		-0.006	
S6	0.013		0.000		-0.003	
S7	0.012		0.000		-0.002	
S8	0.012		0.000		-0.000	

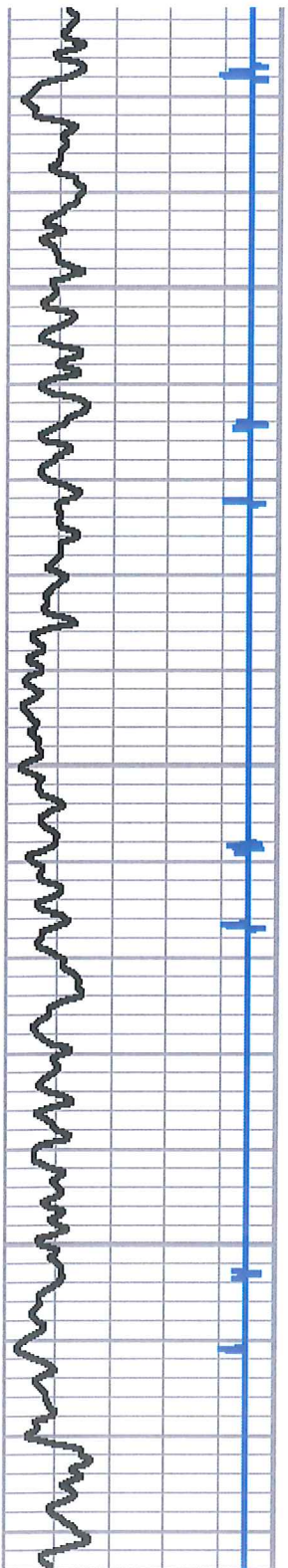


MAIN LOG

Database File: amanda 2h.db
 Dataset Pathname: pass4
 Presentation Format: scbl02
 Dataset Creation: Mon Oct 06 21:51:09 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)							

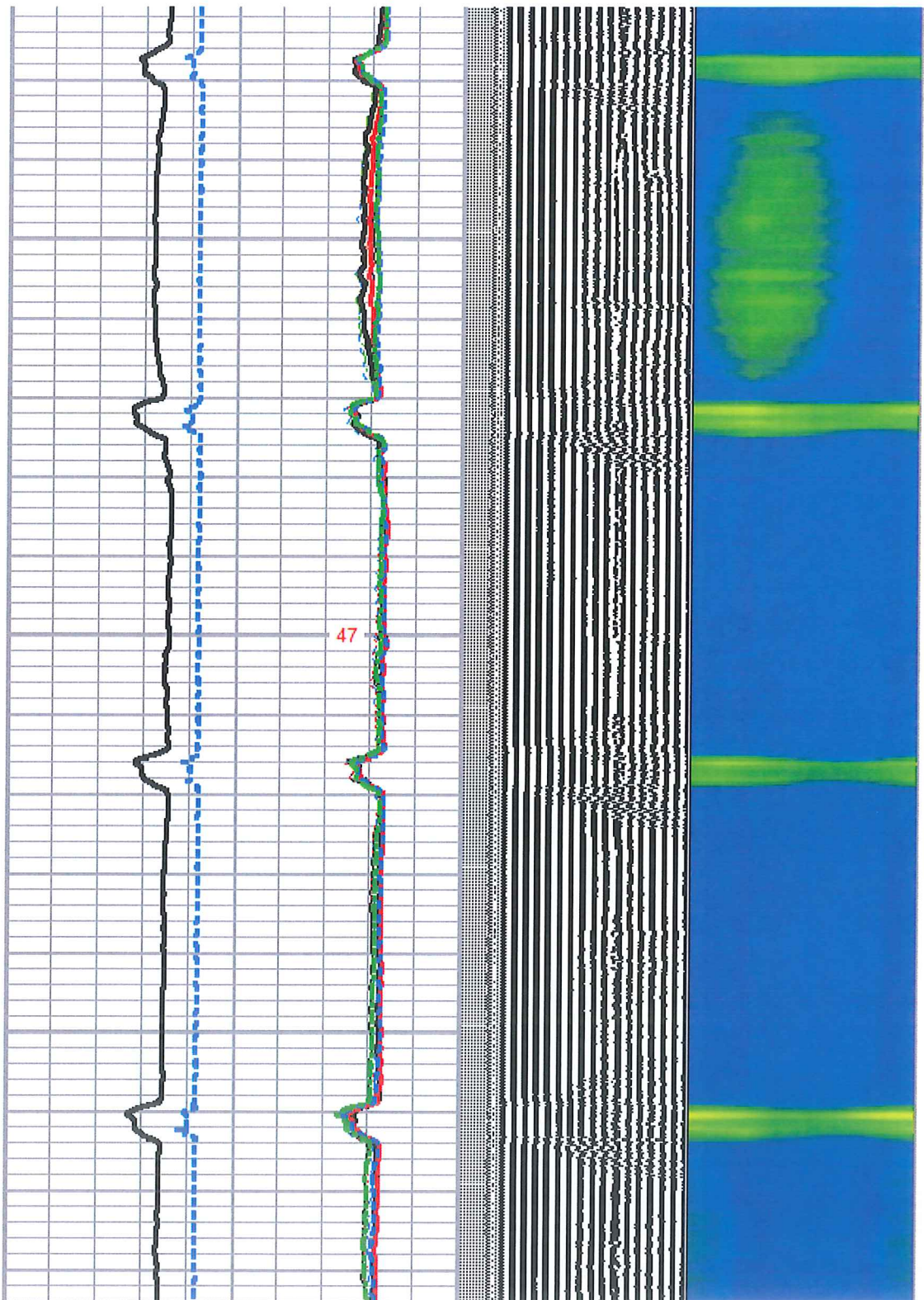


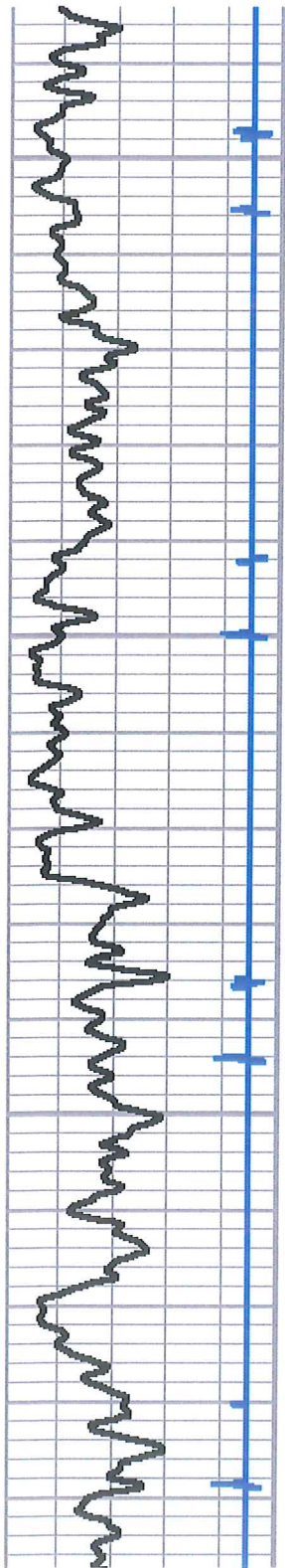


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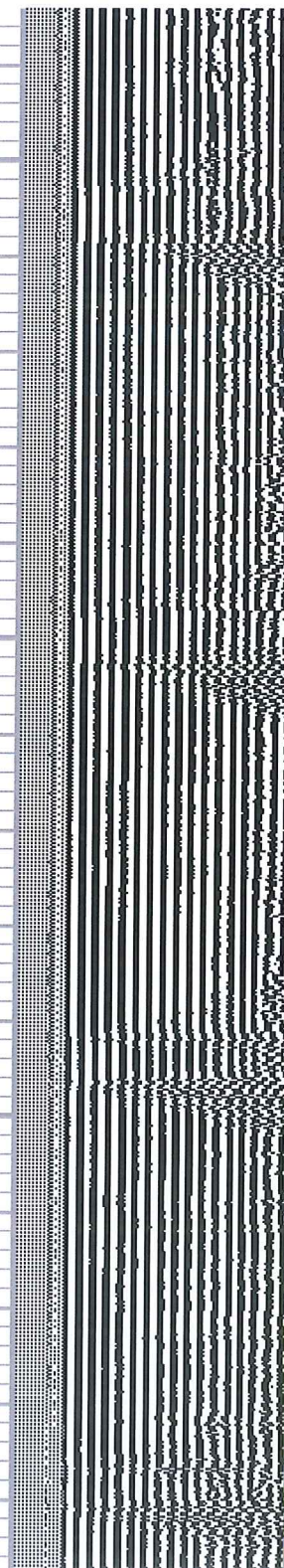
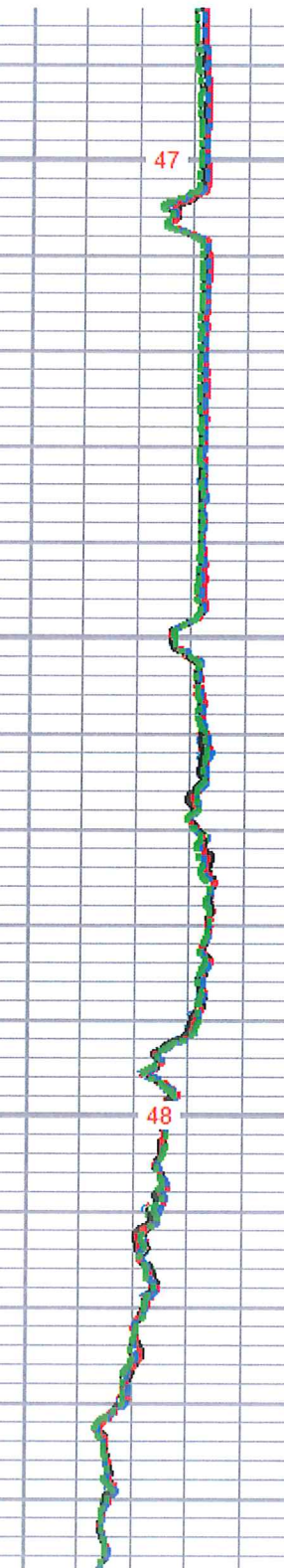
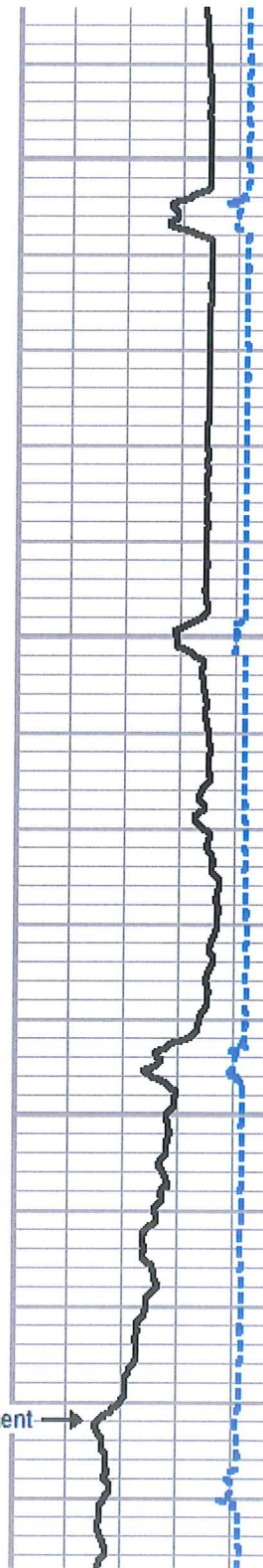
200

250



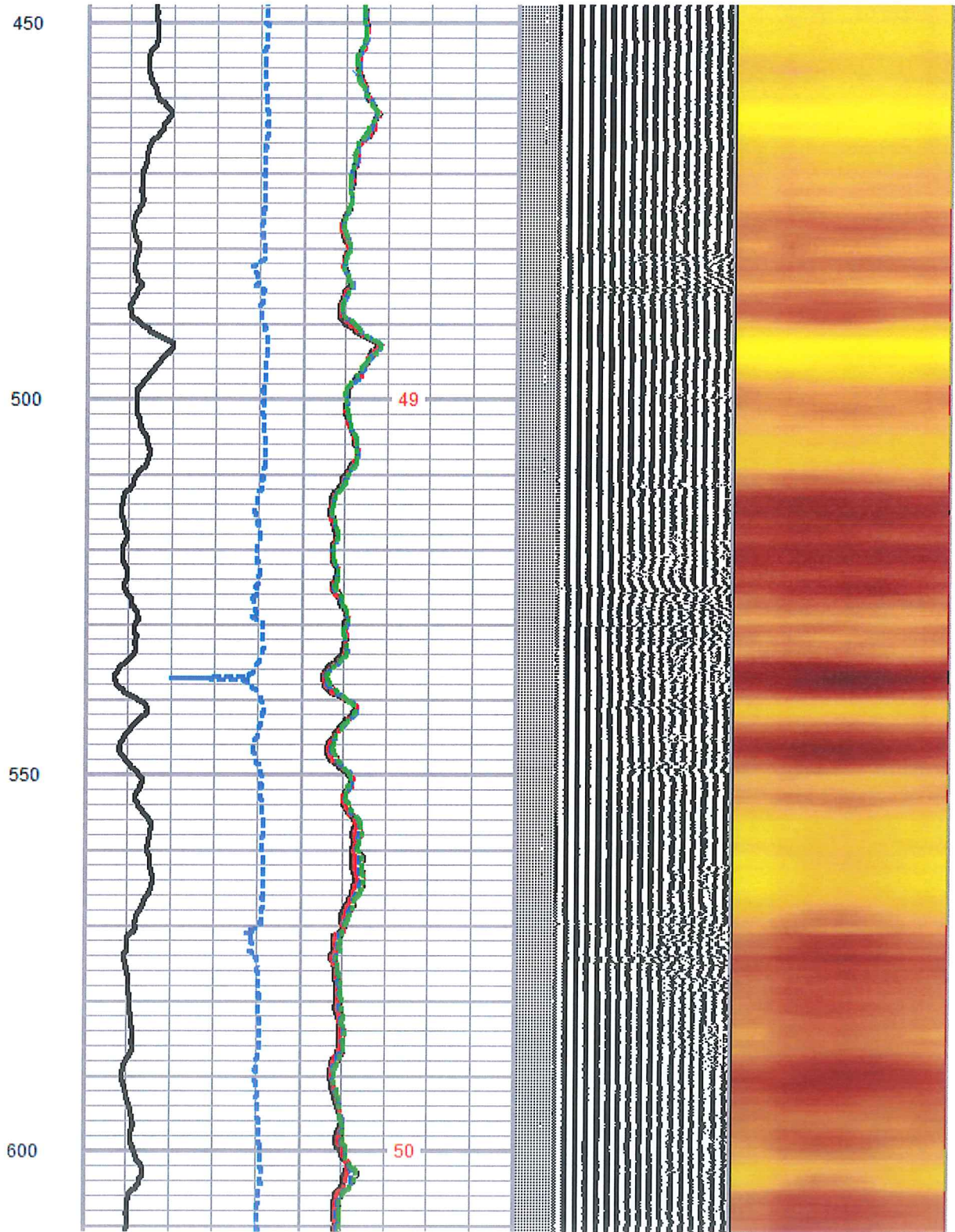
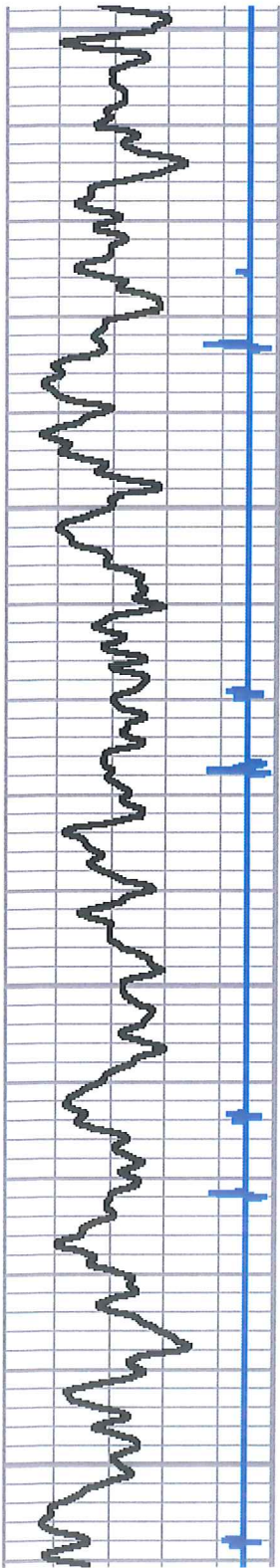


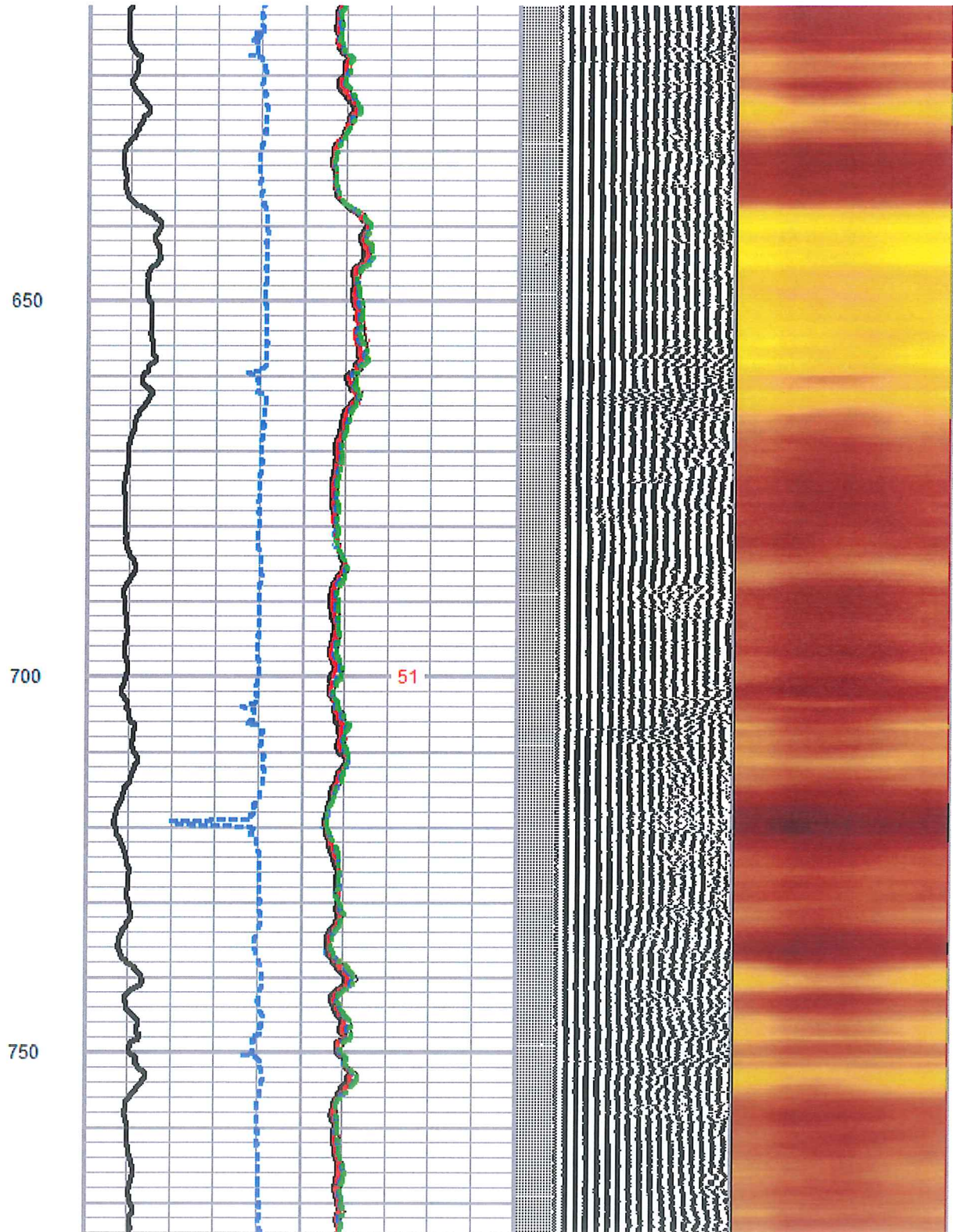
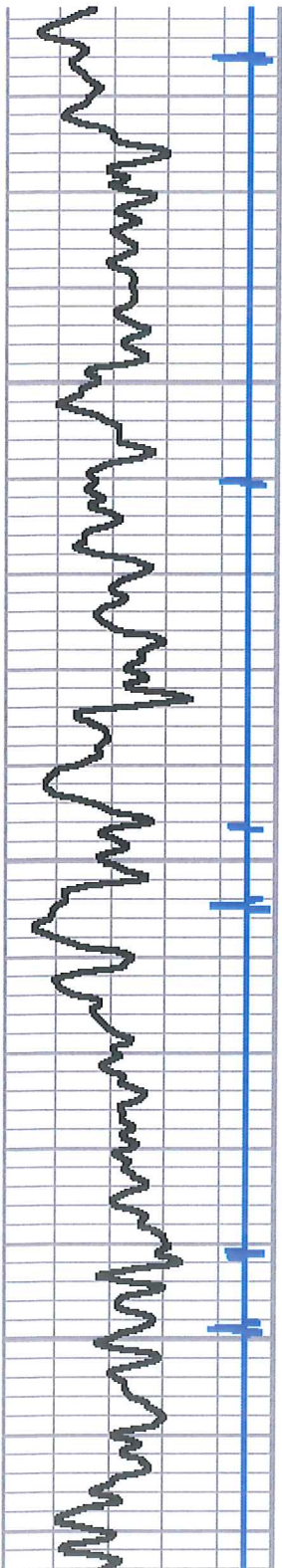
300
350
400
Top of Cement →

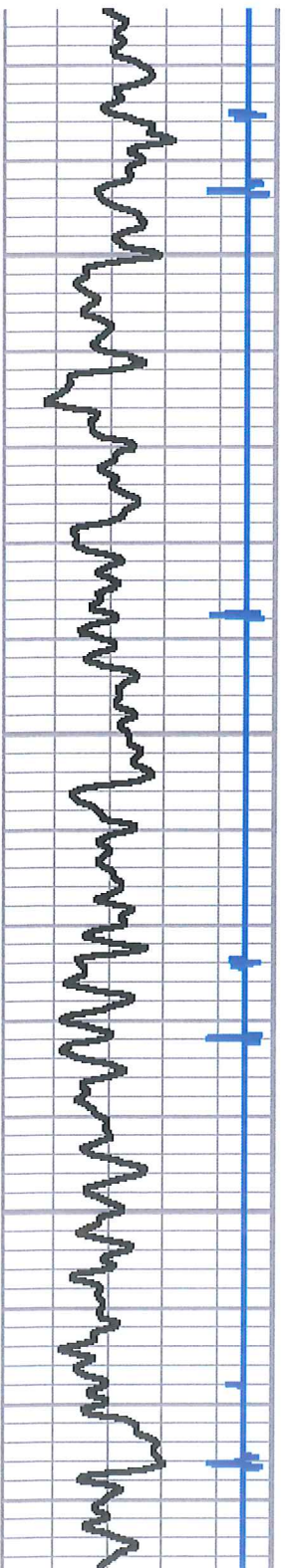


47

48



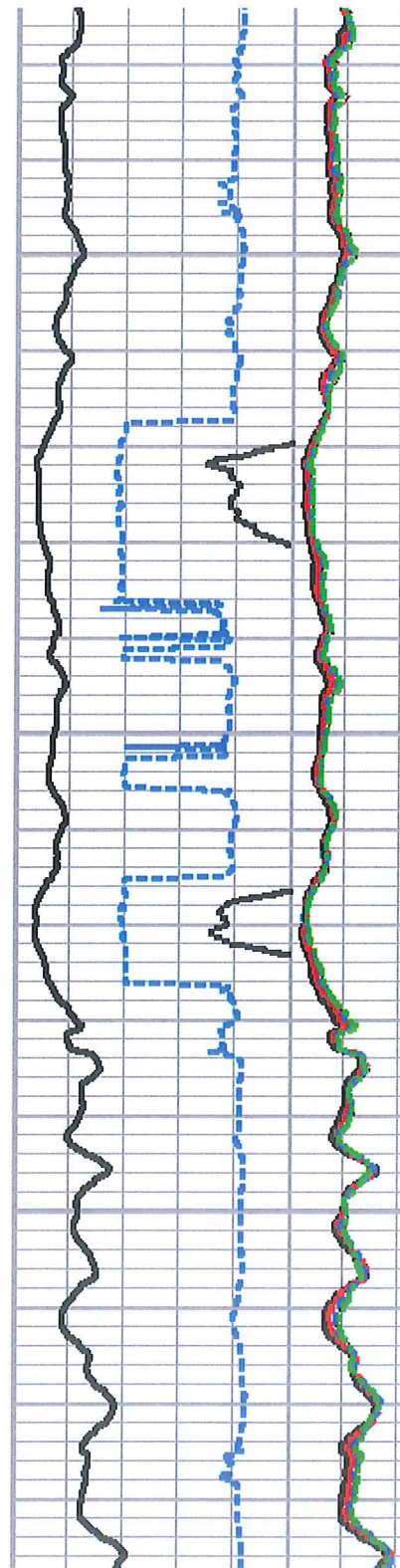




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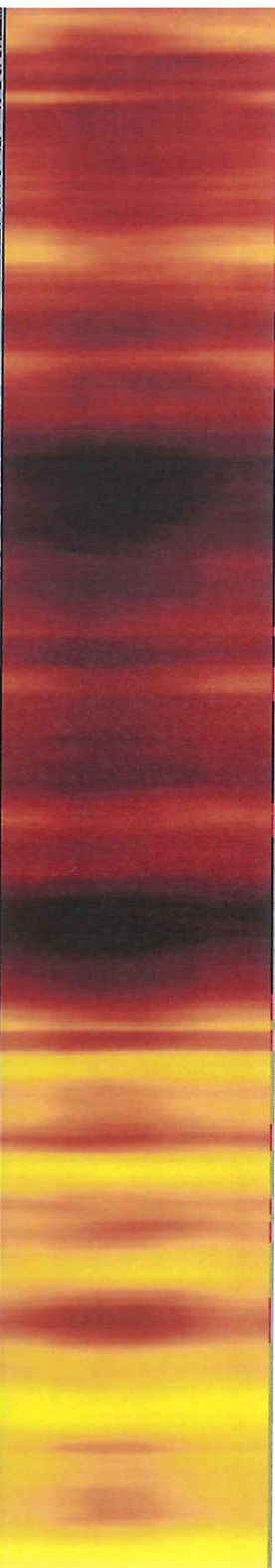
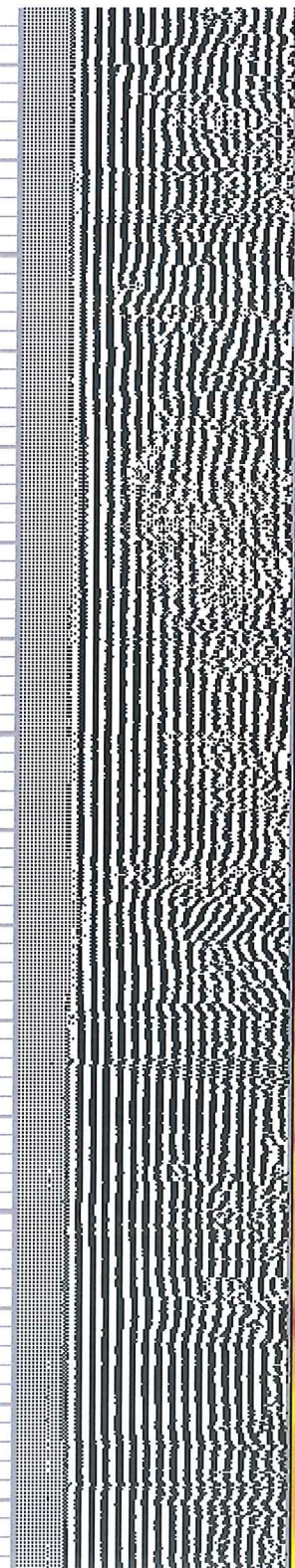
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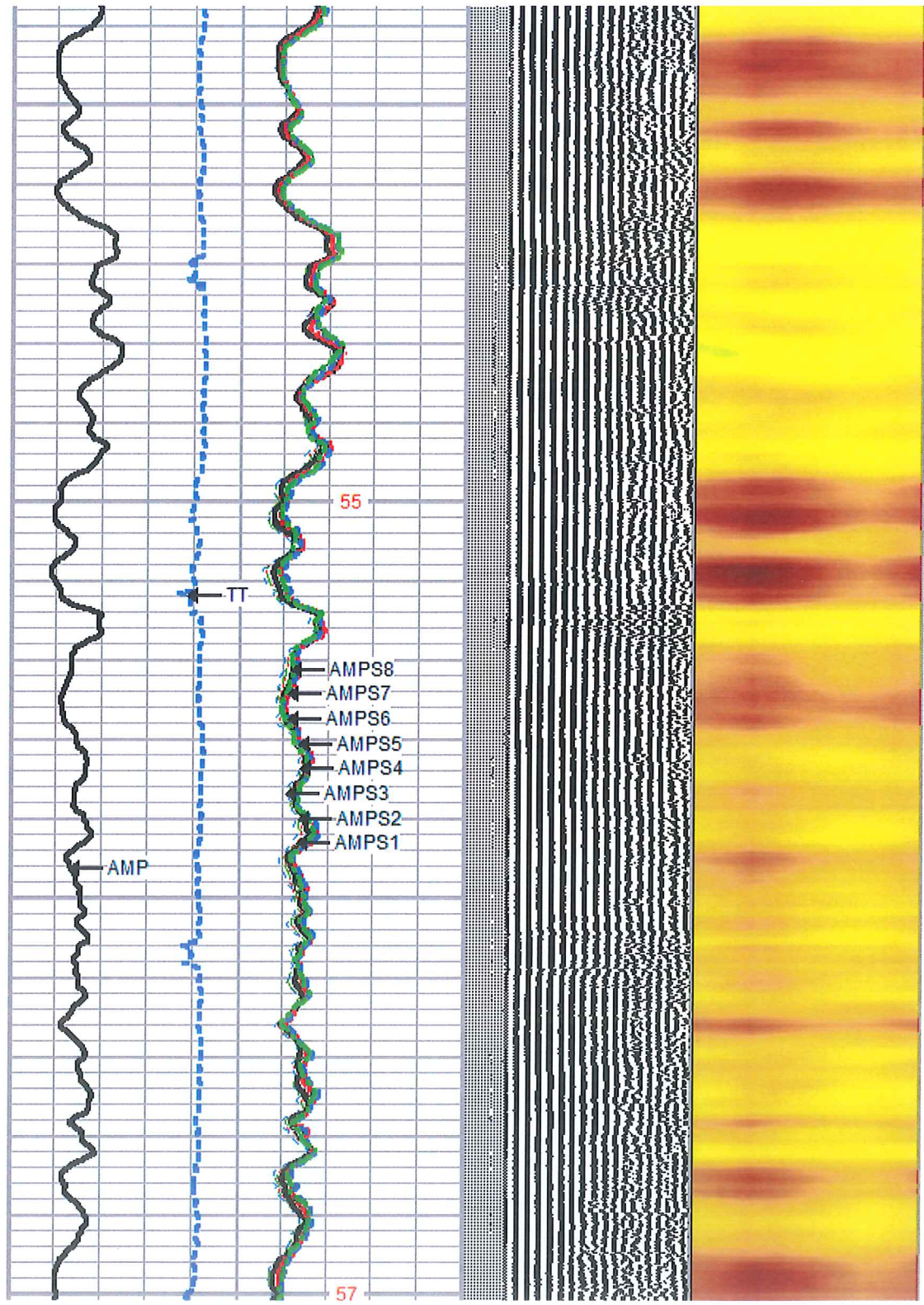
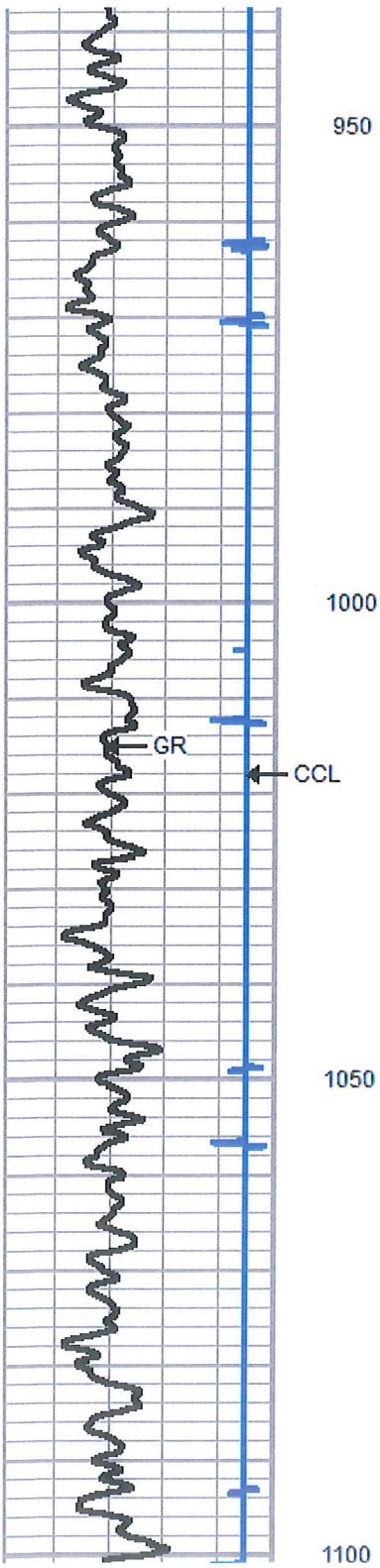
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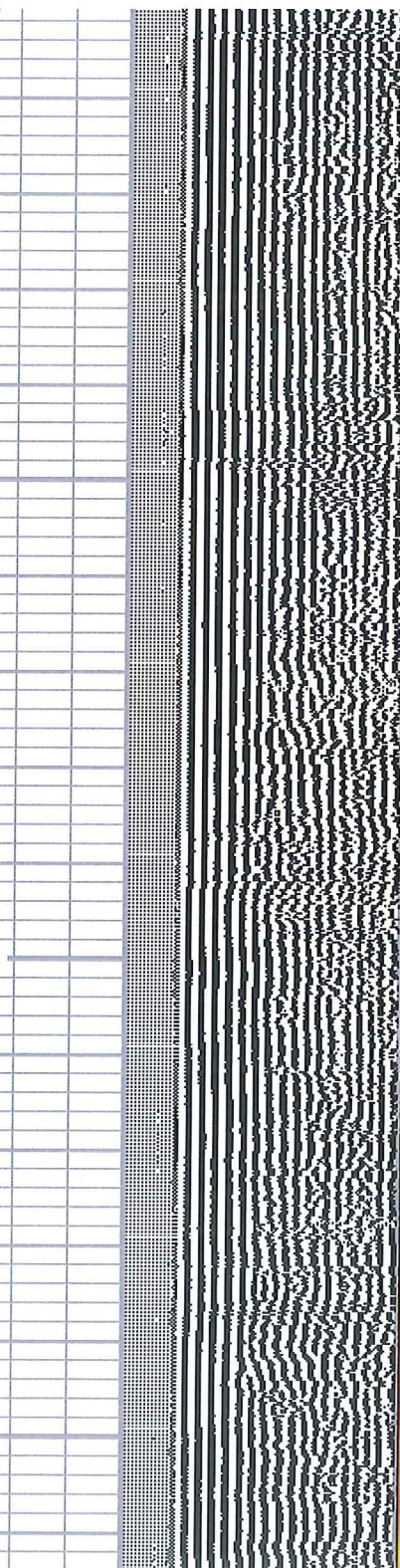
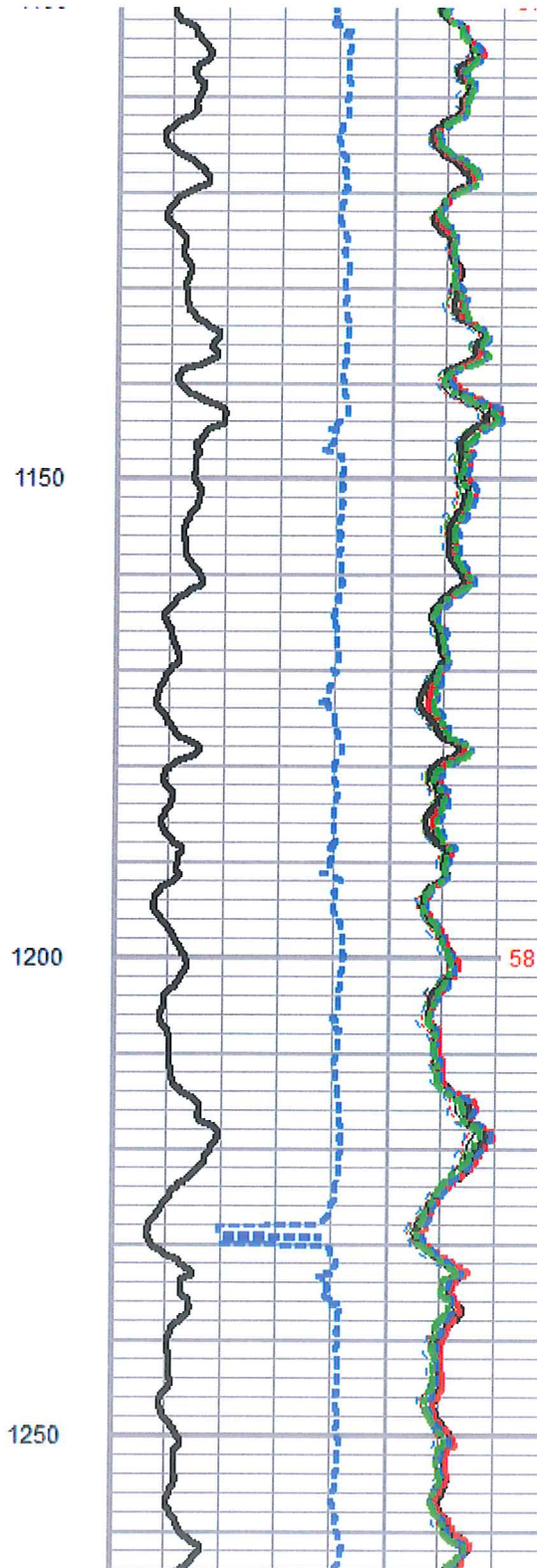
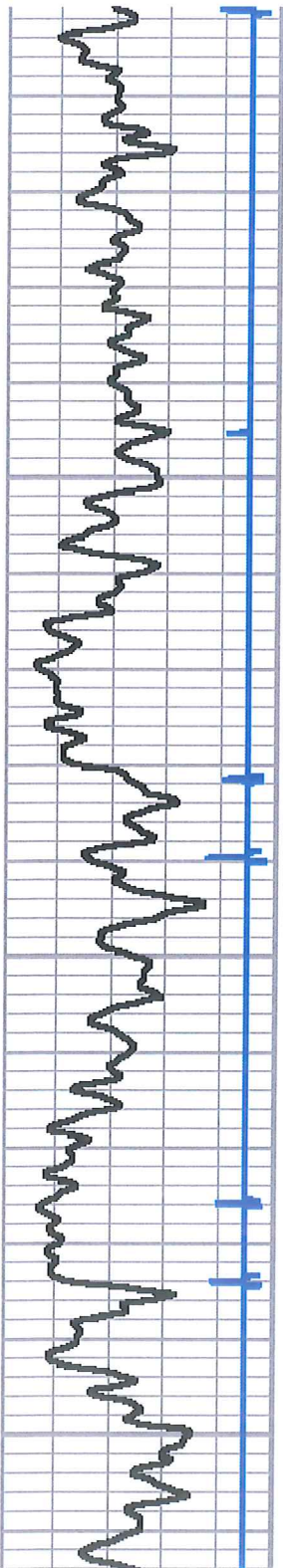


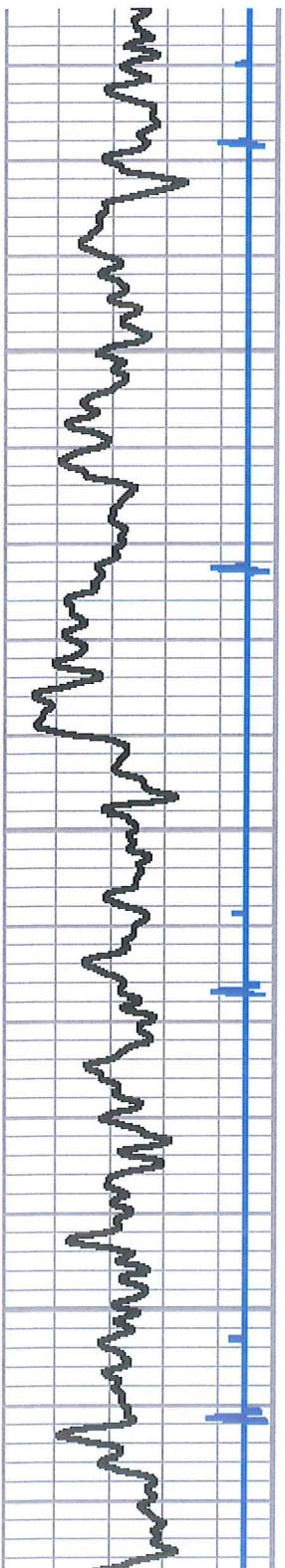
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54





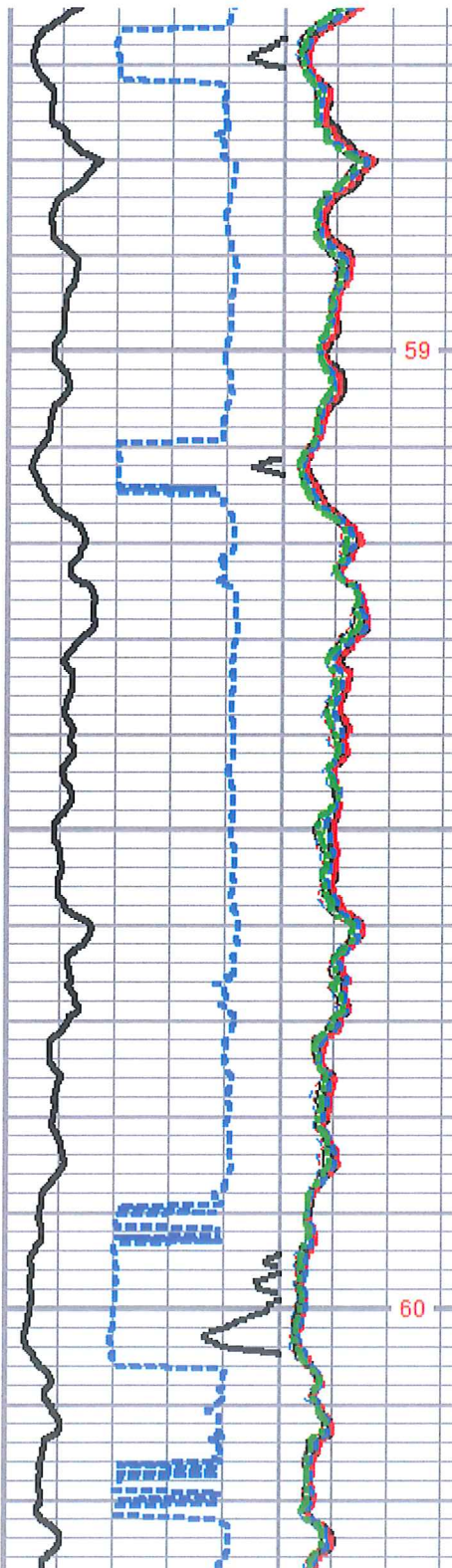




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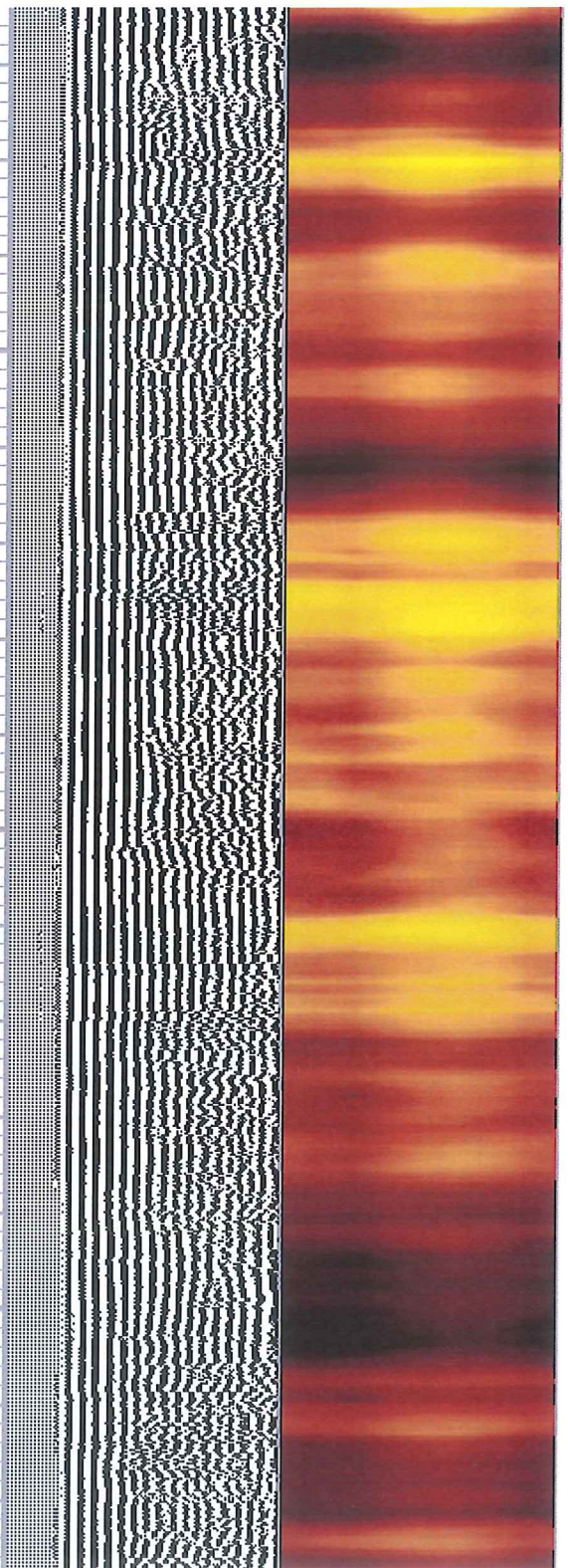
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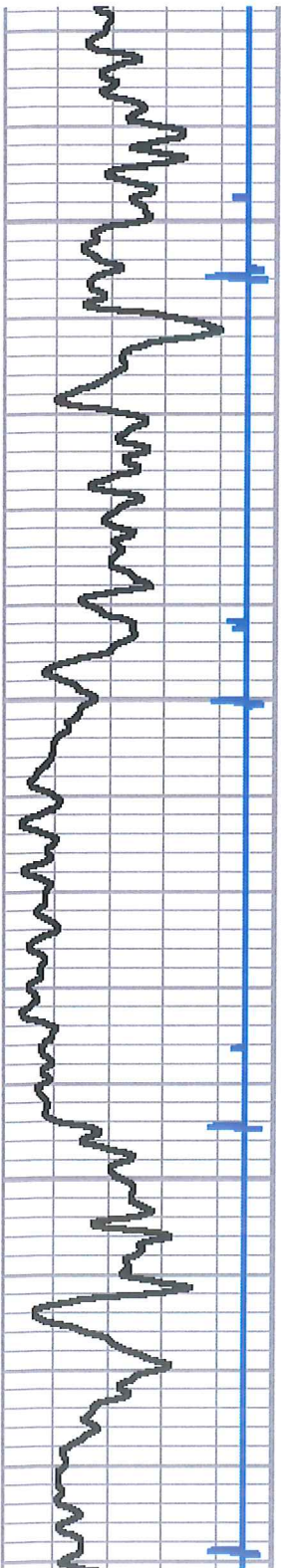
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59

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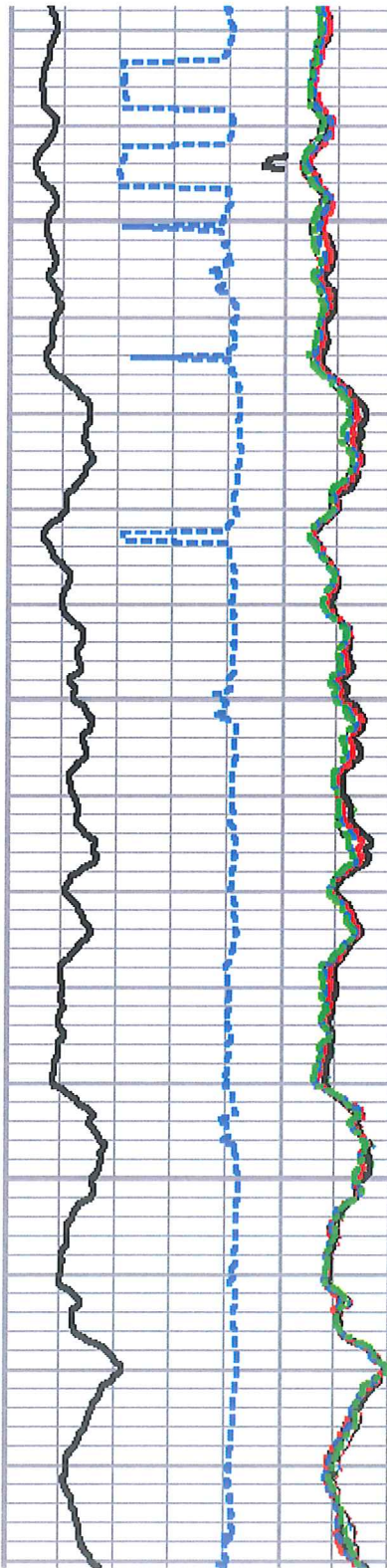




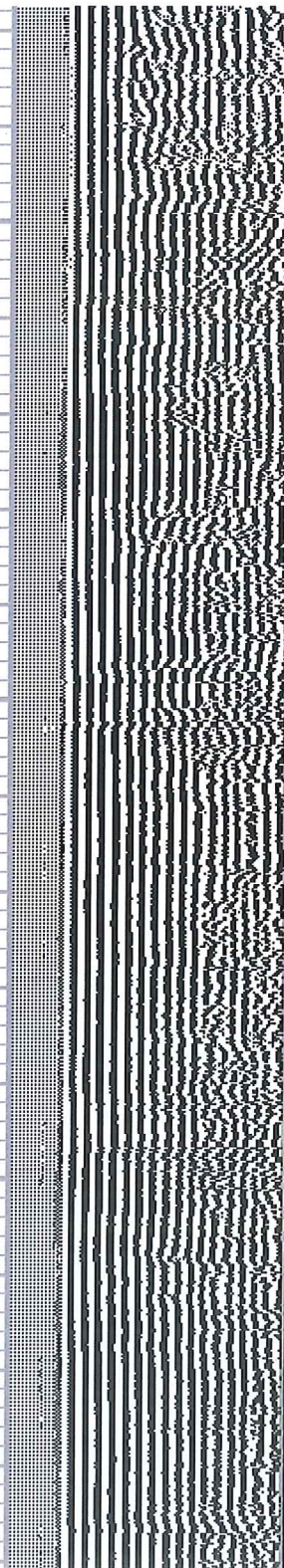
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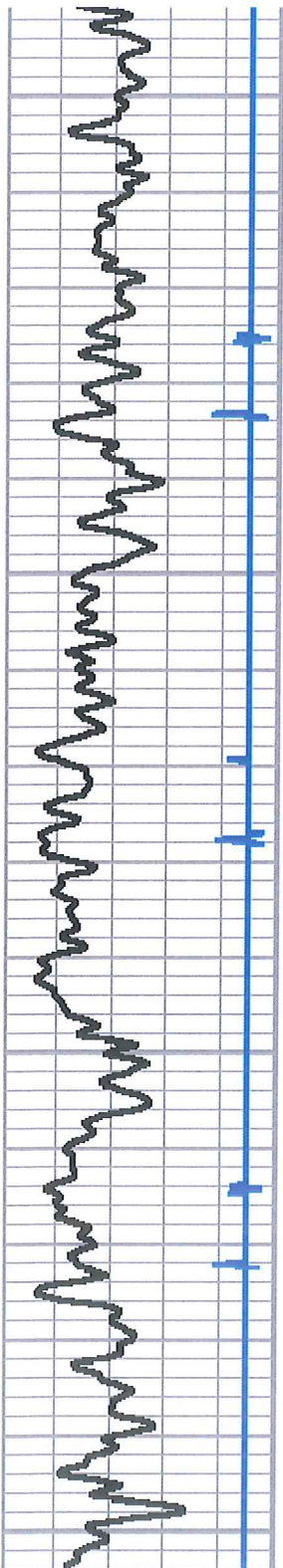
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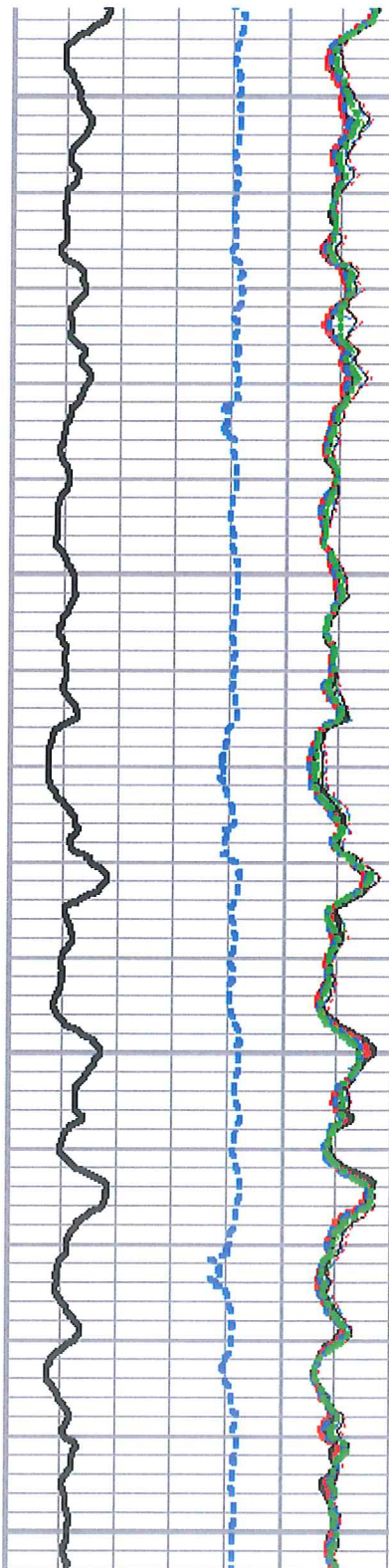


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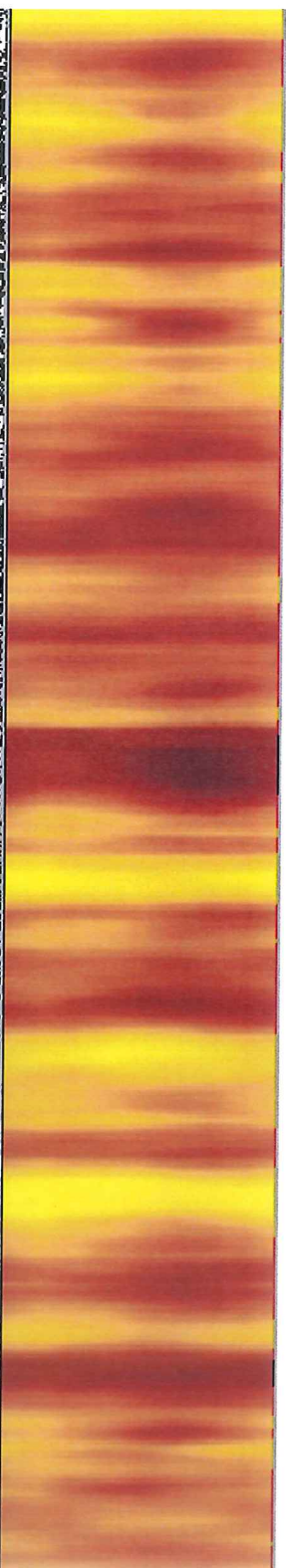
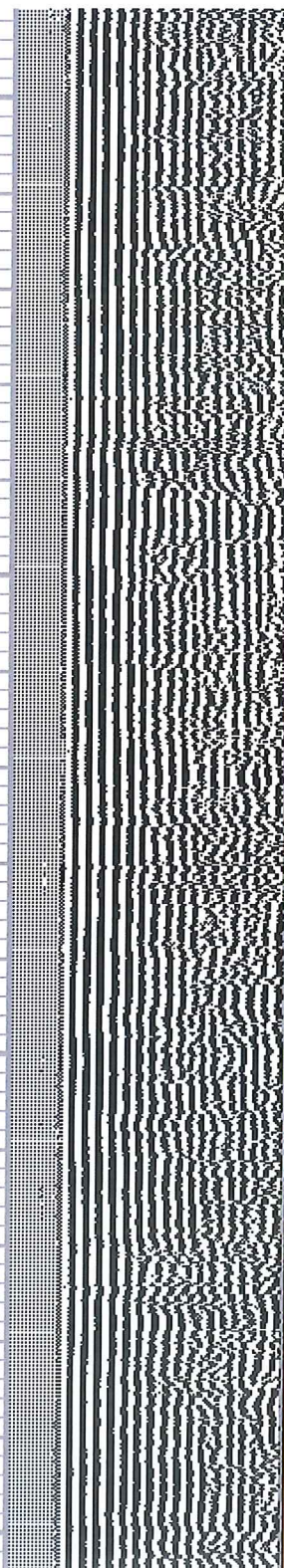


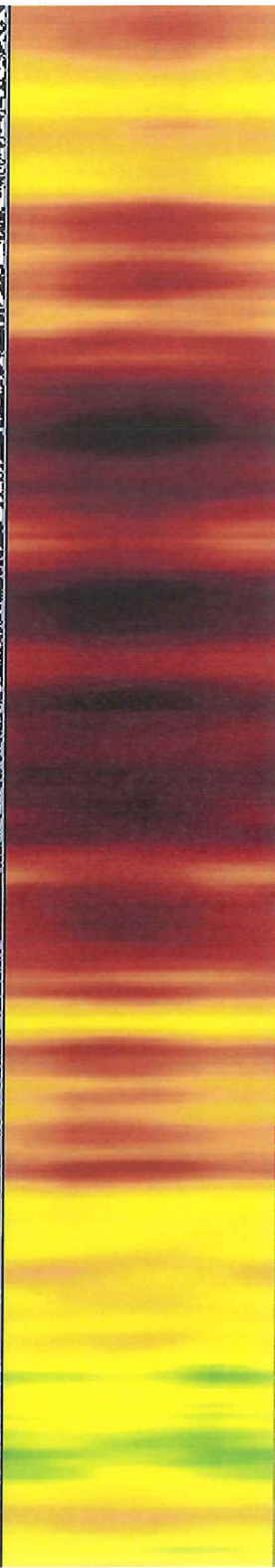
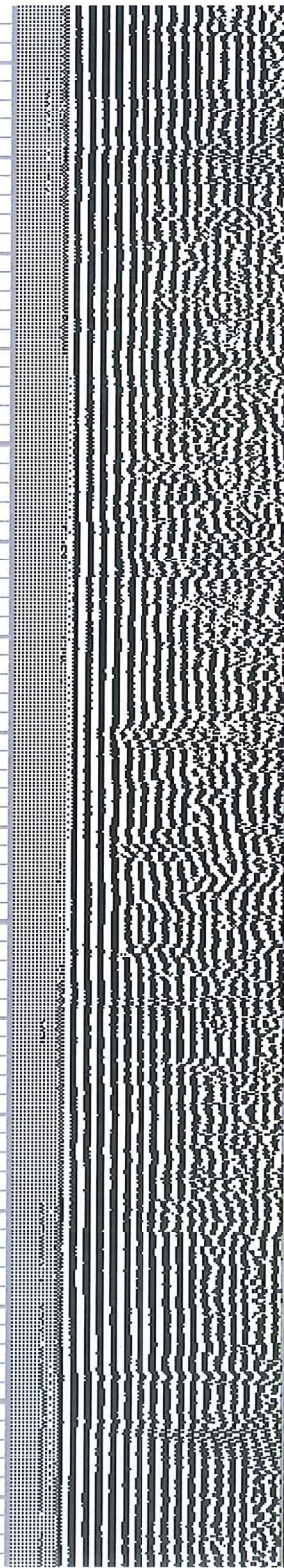
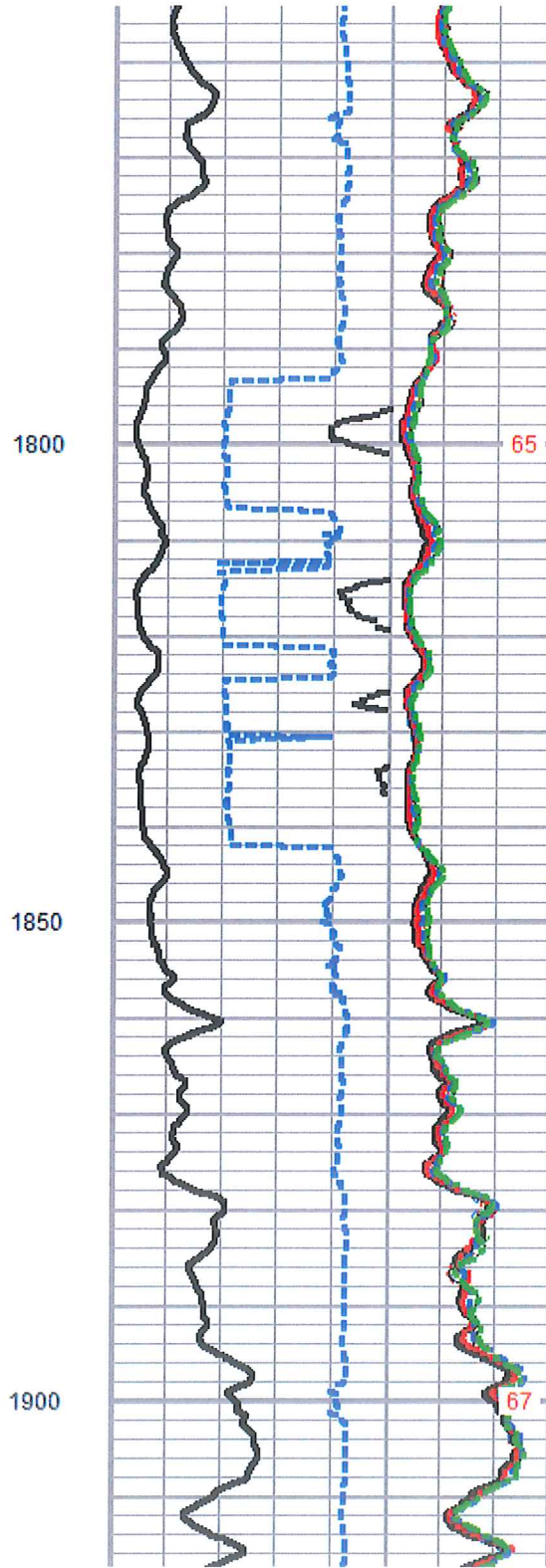
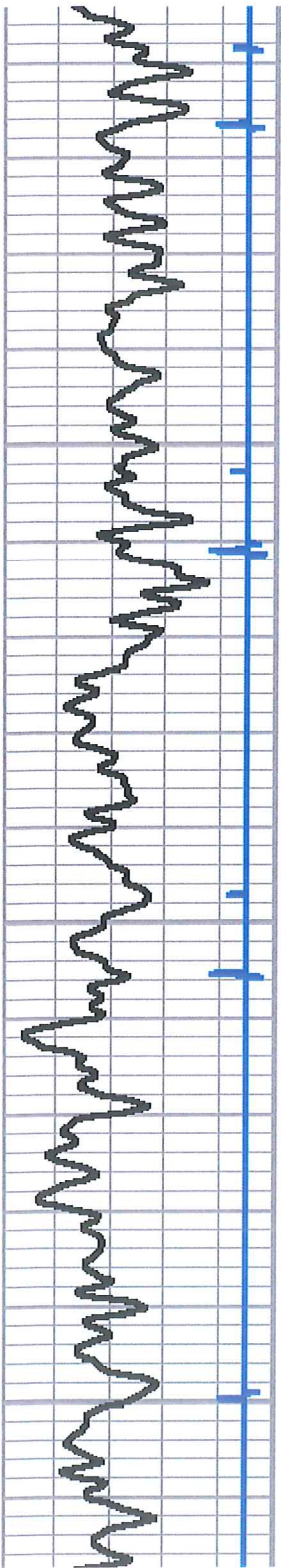


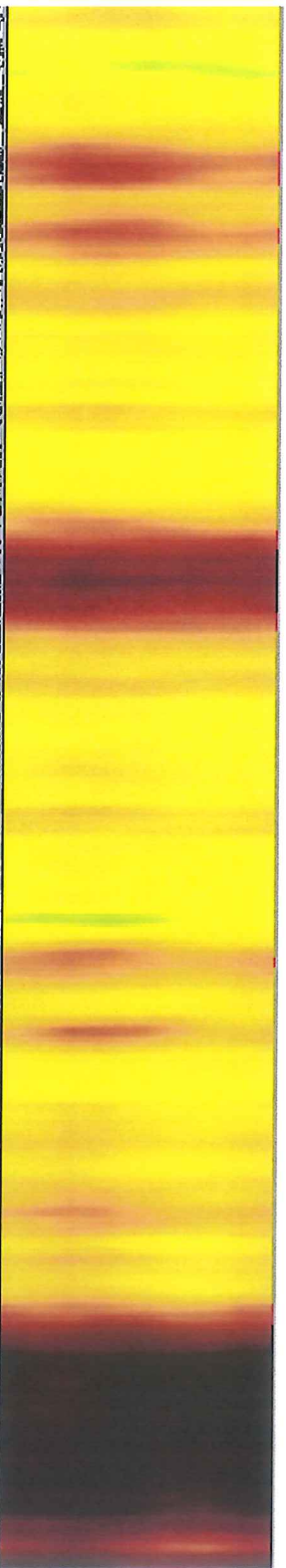
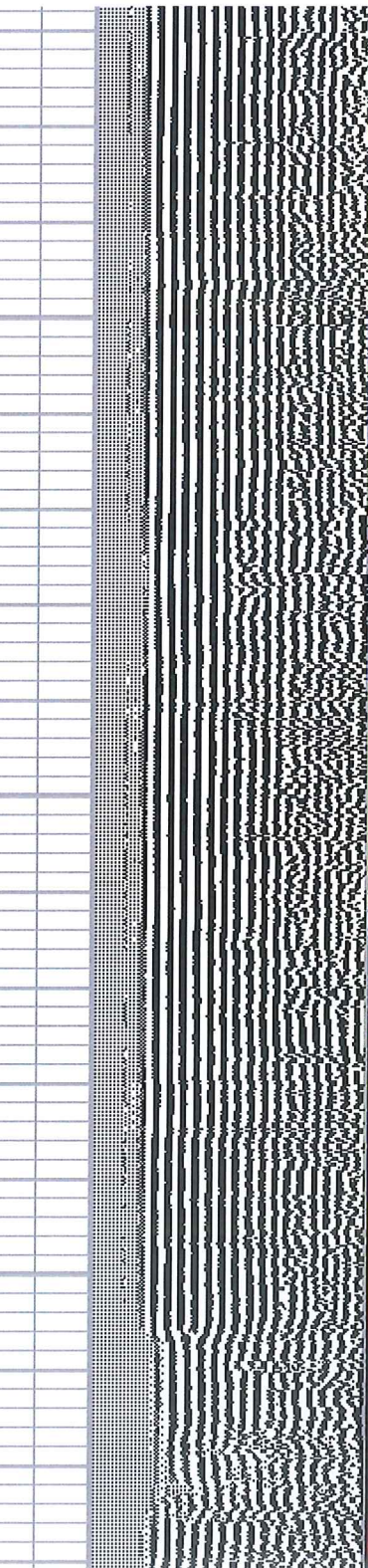
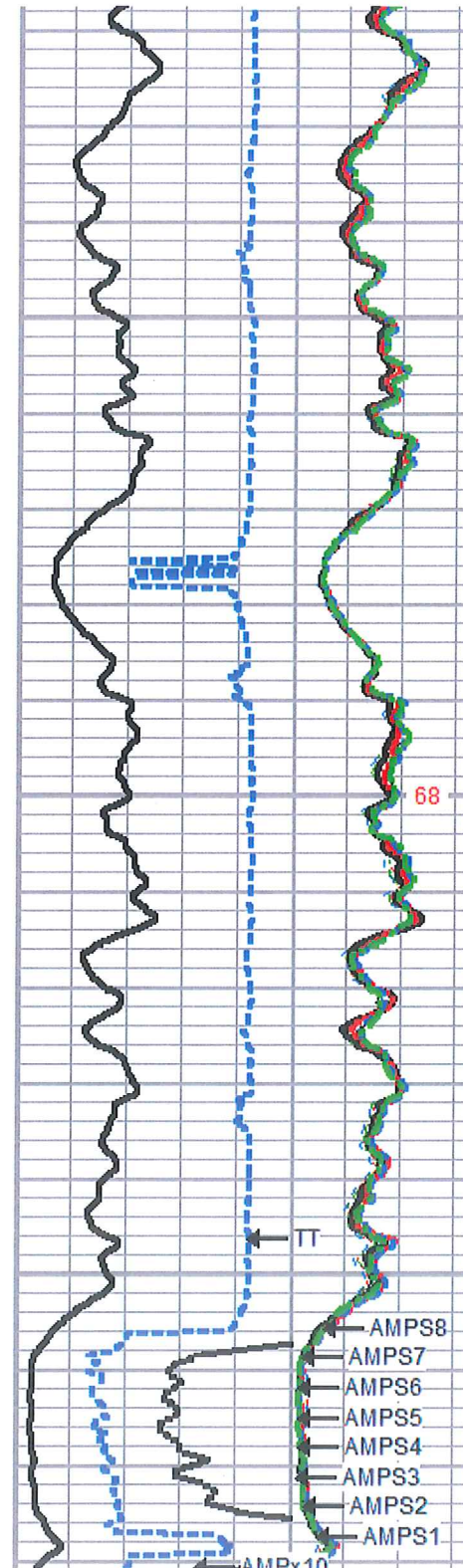
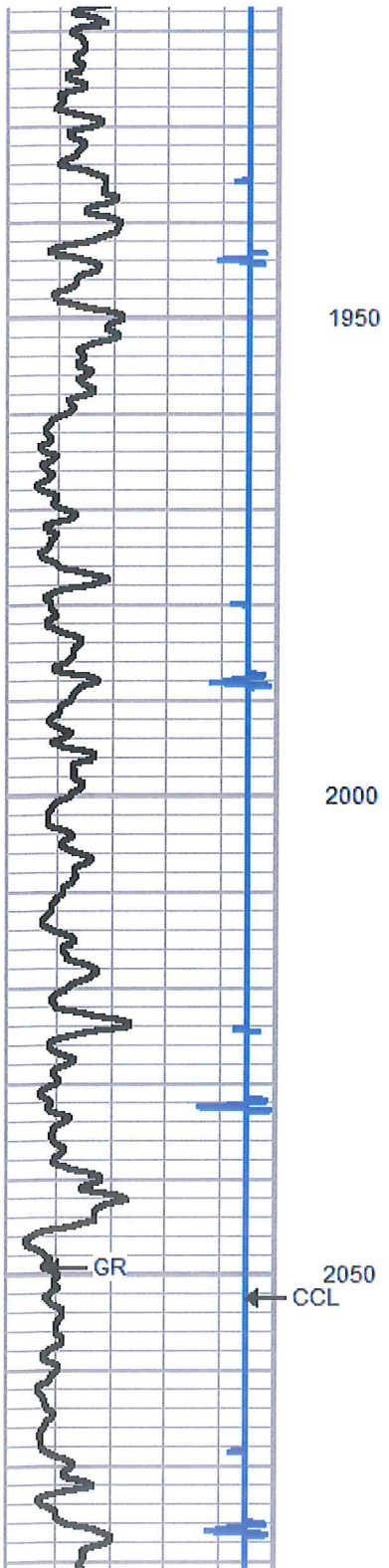
1600
1650
1700
1750

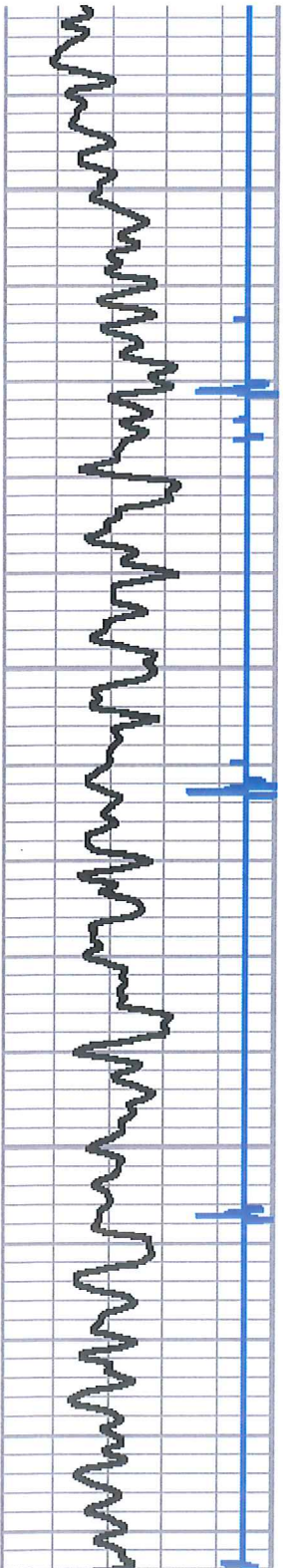


63
64





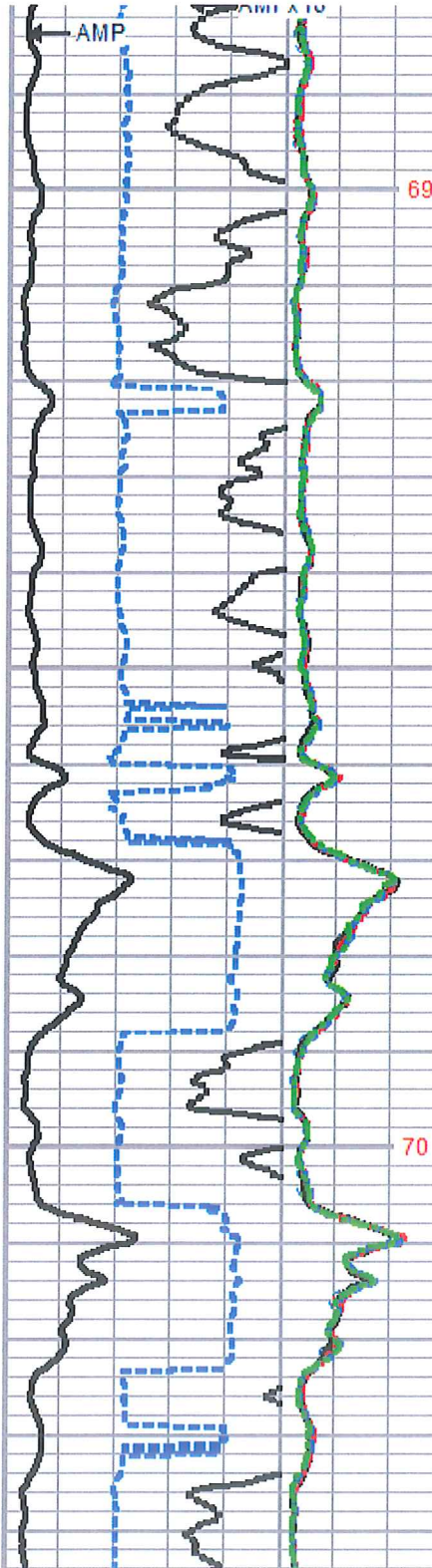




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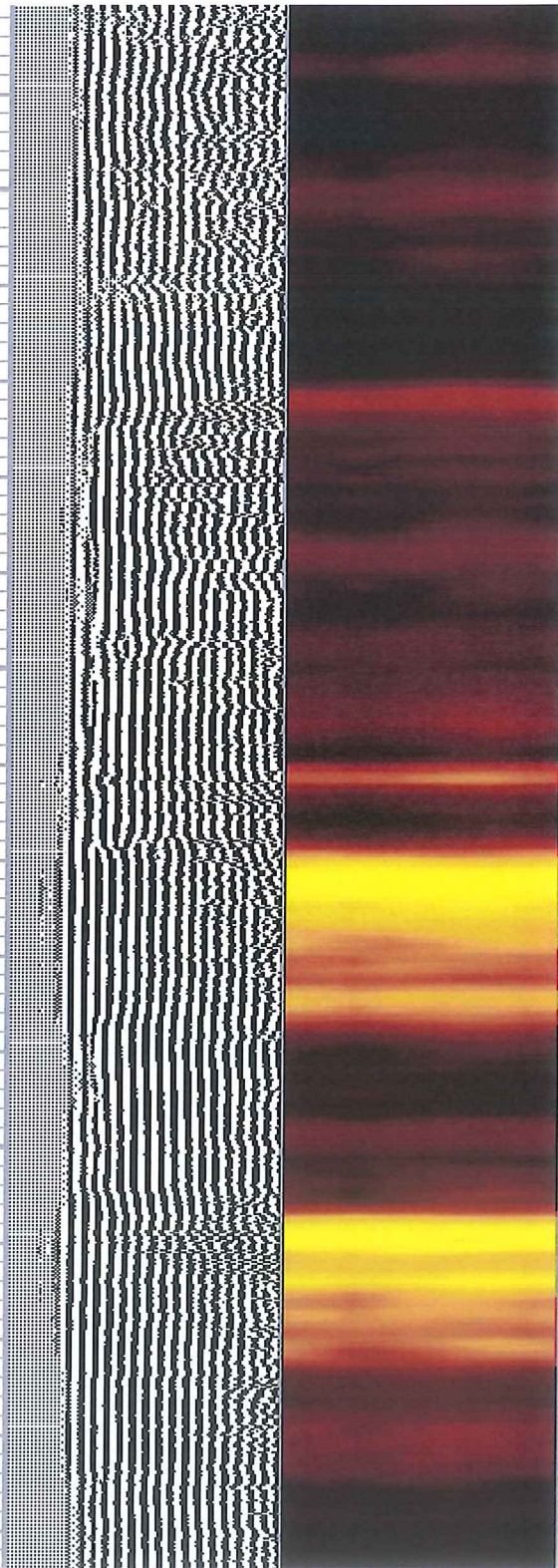
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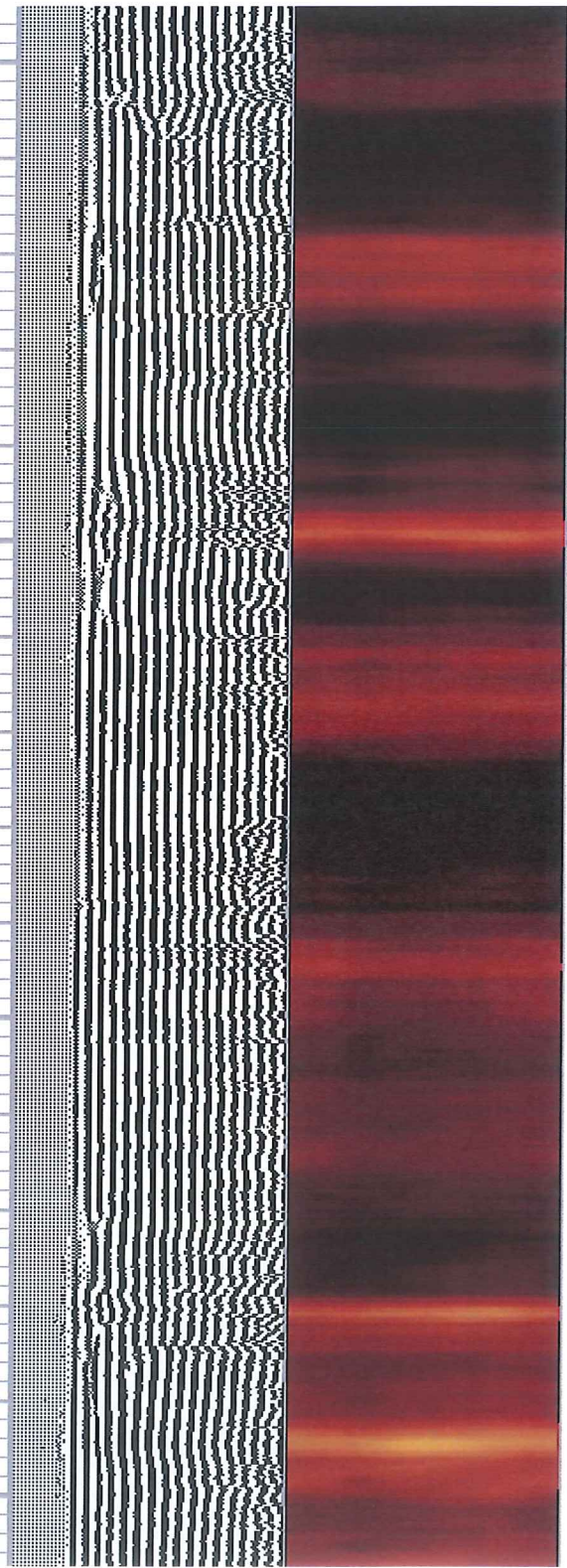
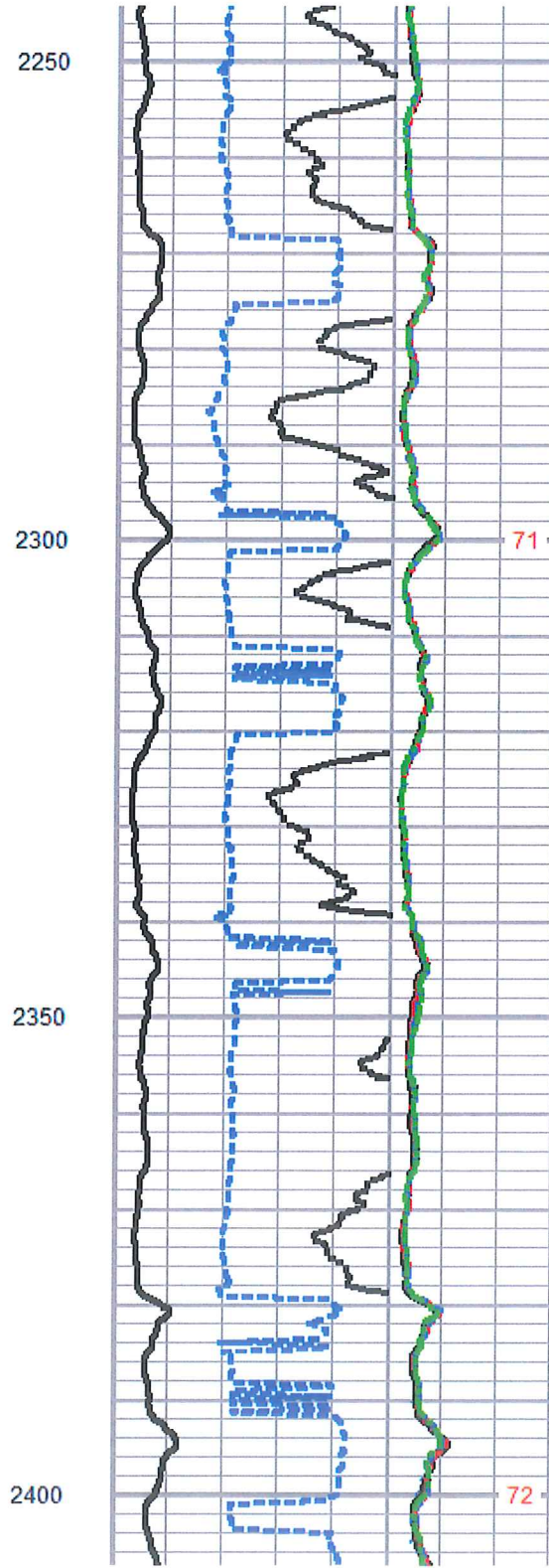
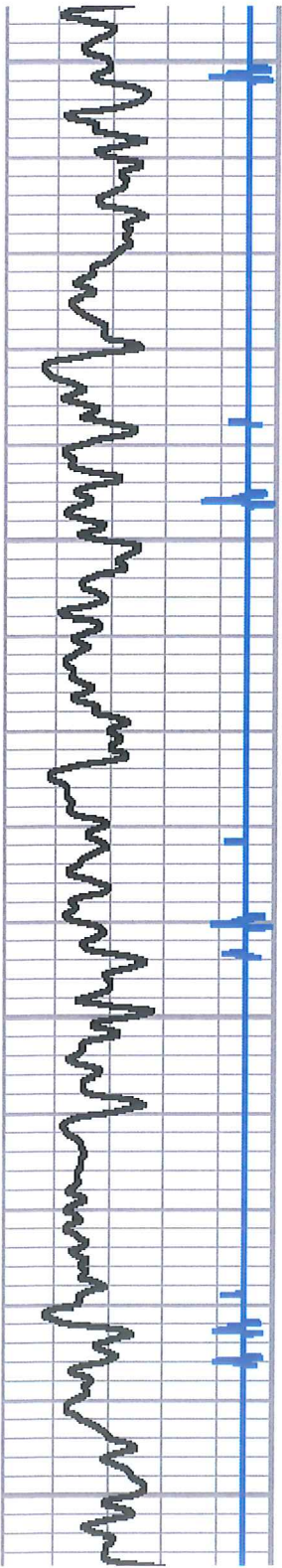
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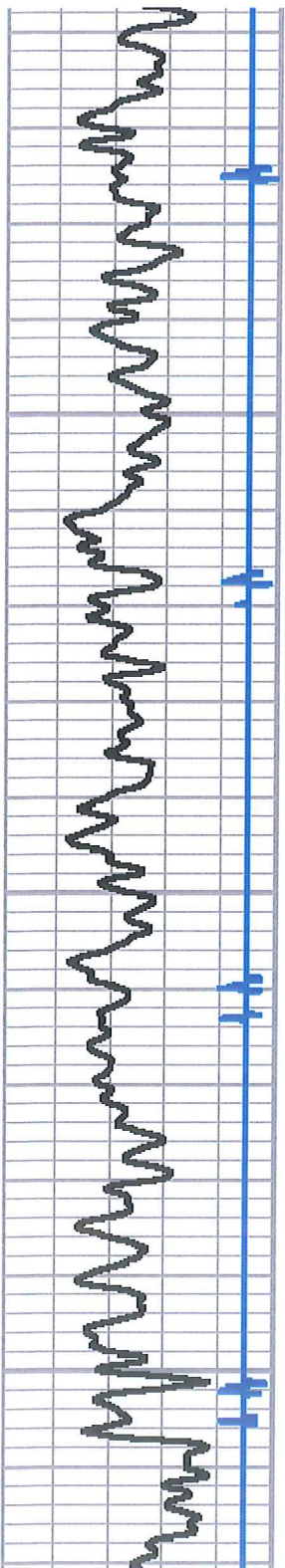


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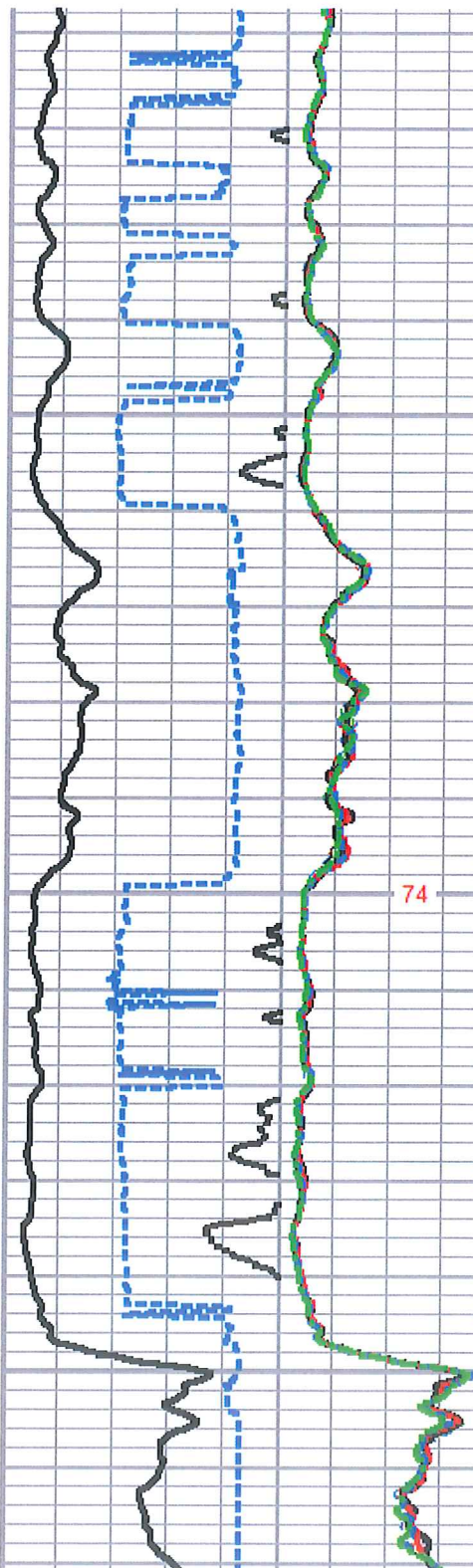




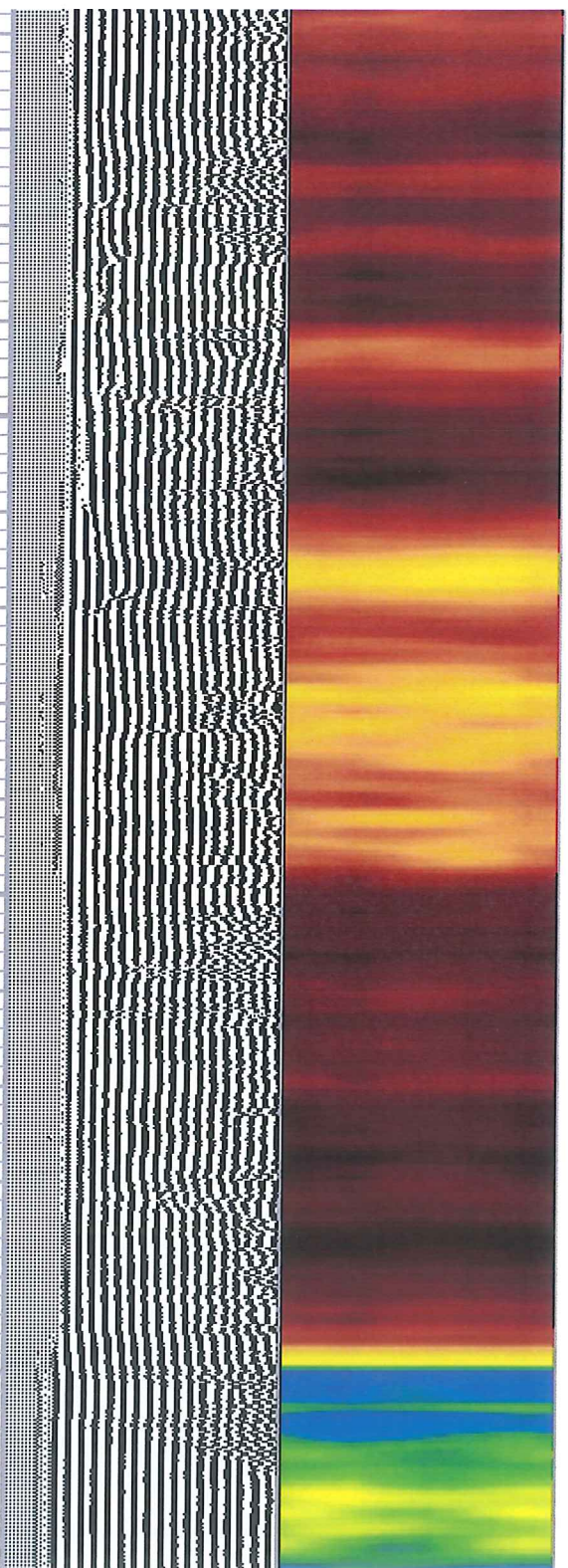
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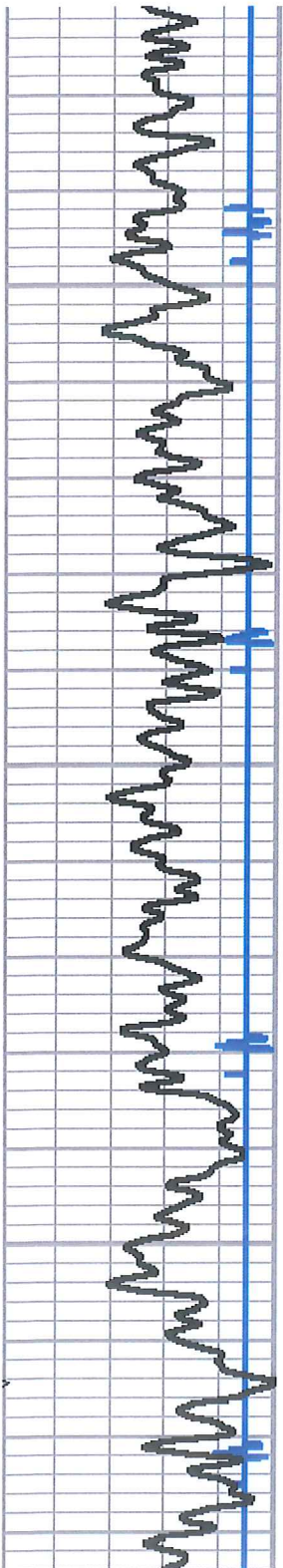
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2550



74

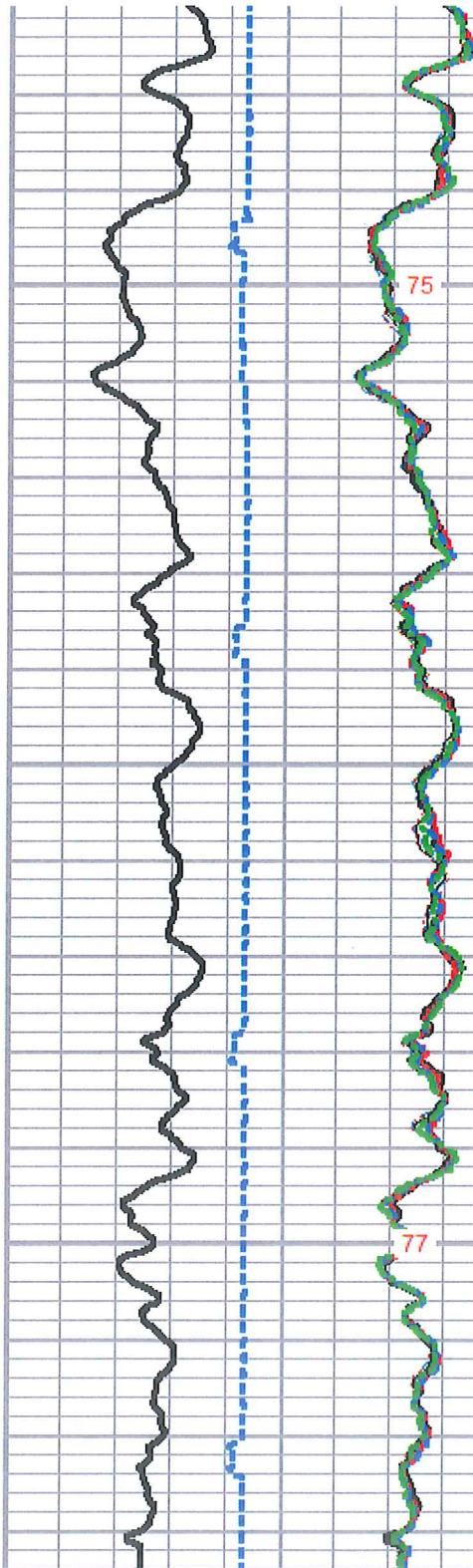




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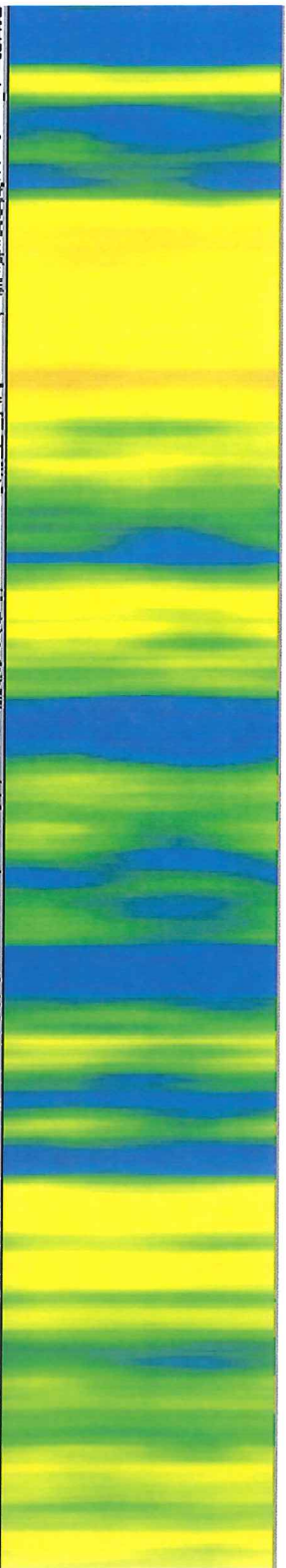
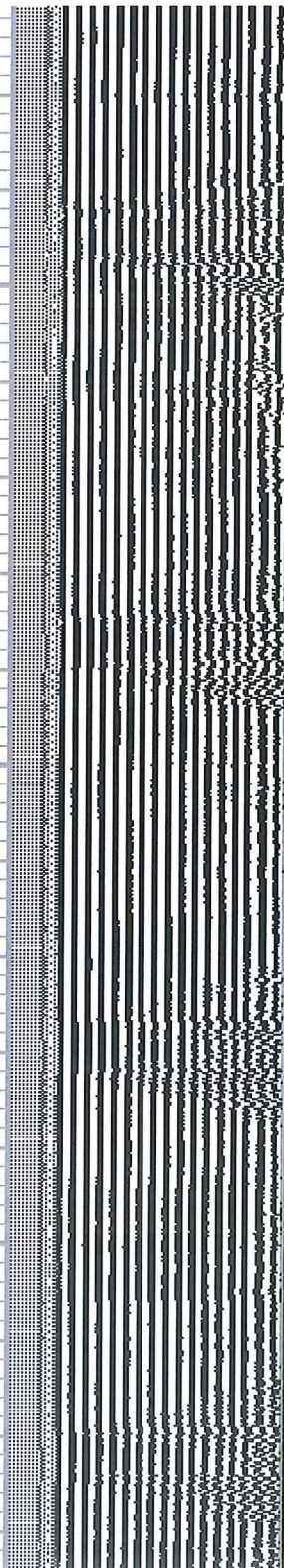
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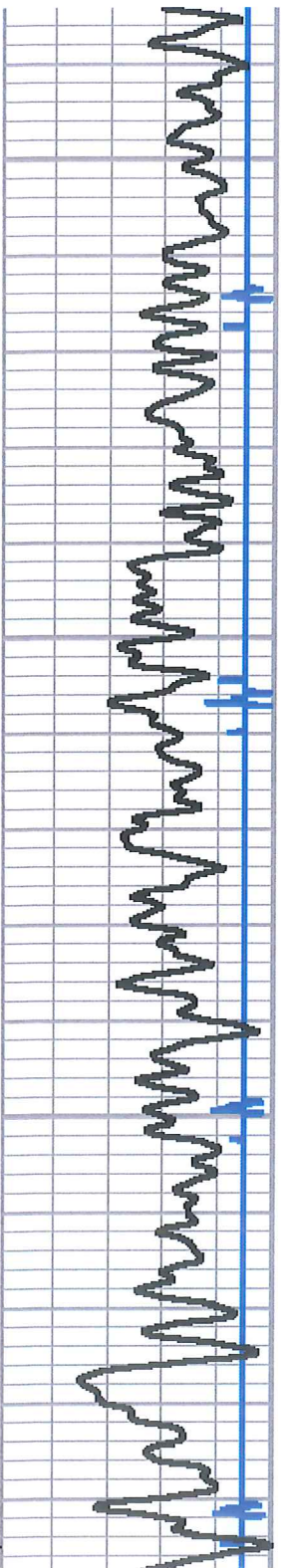
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77

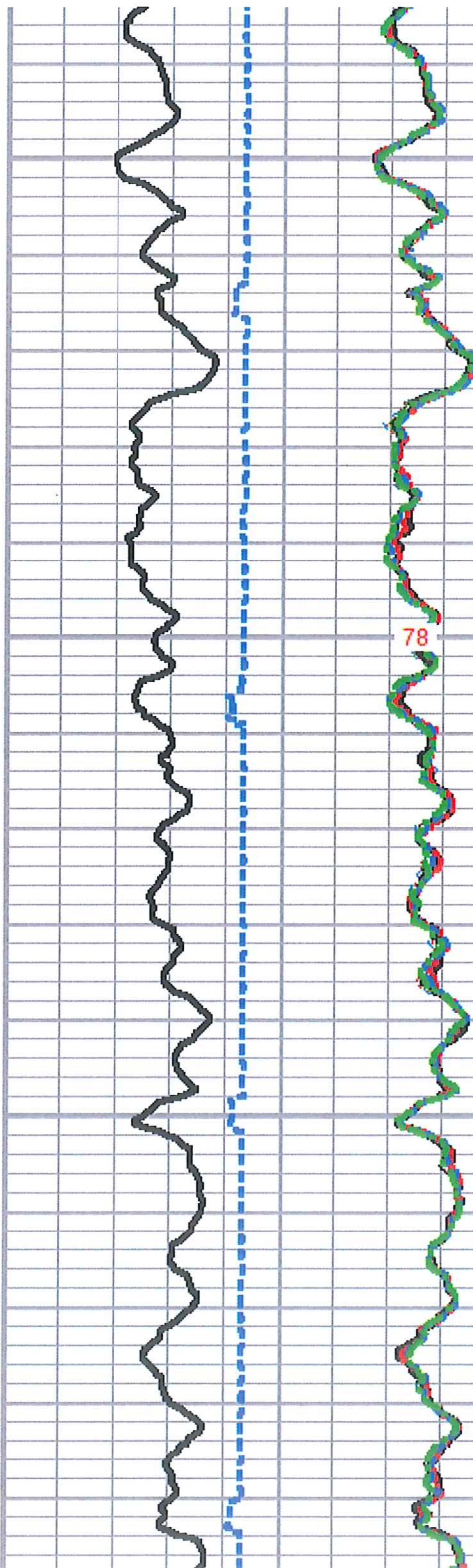




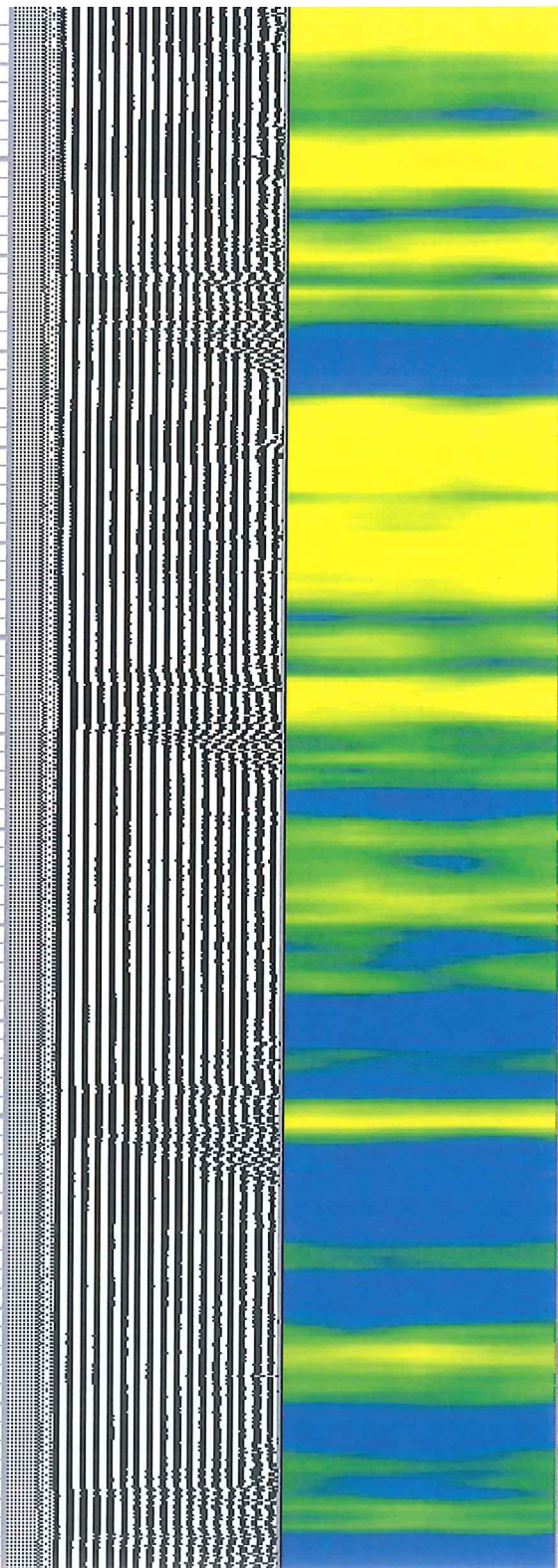
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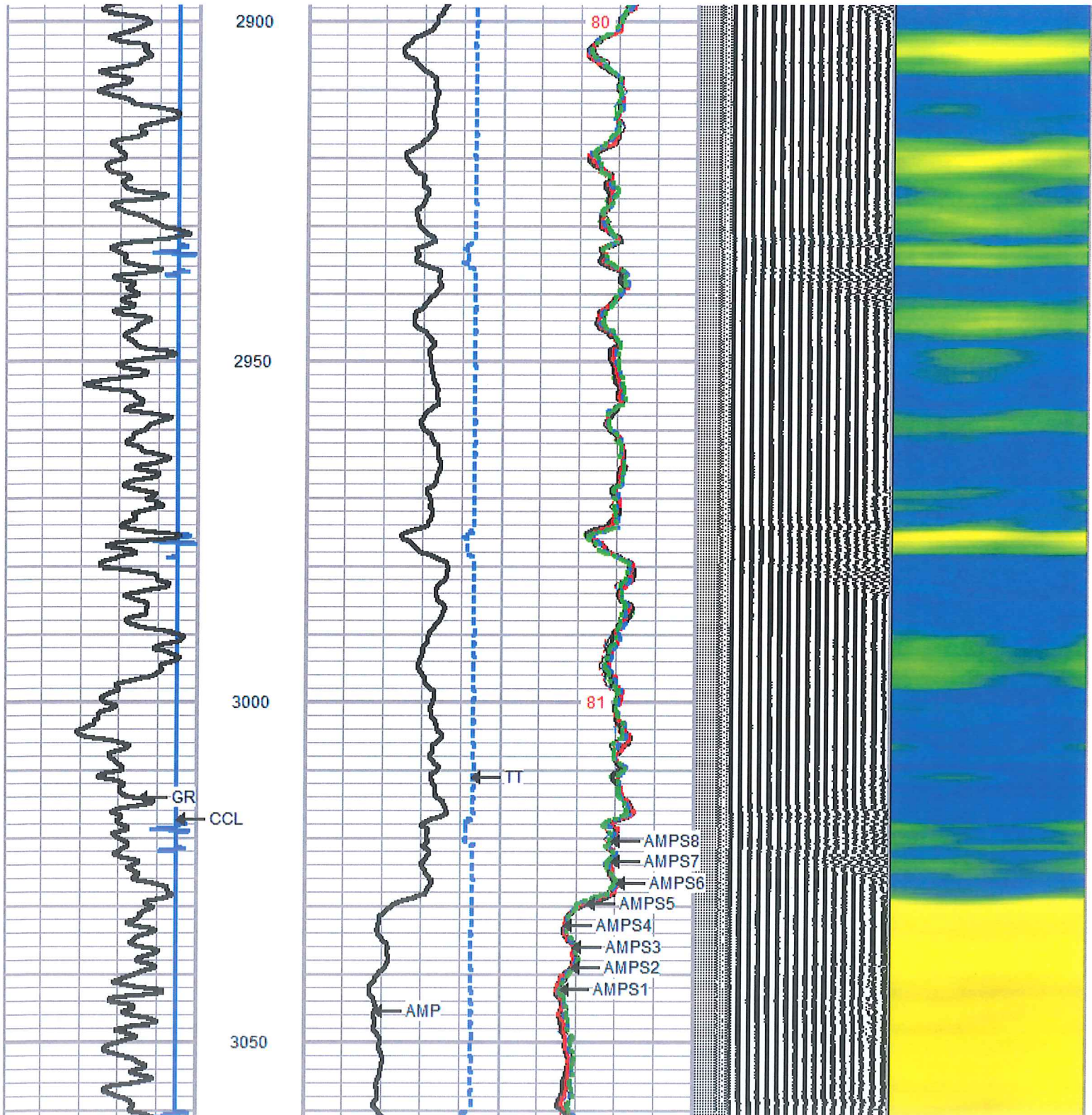
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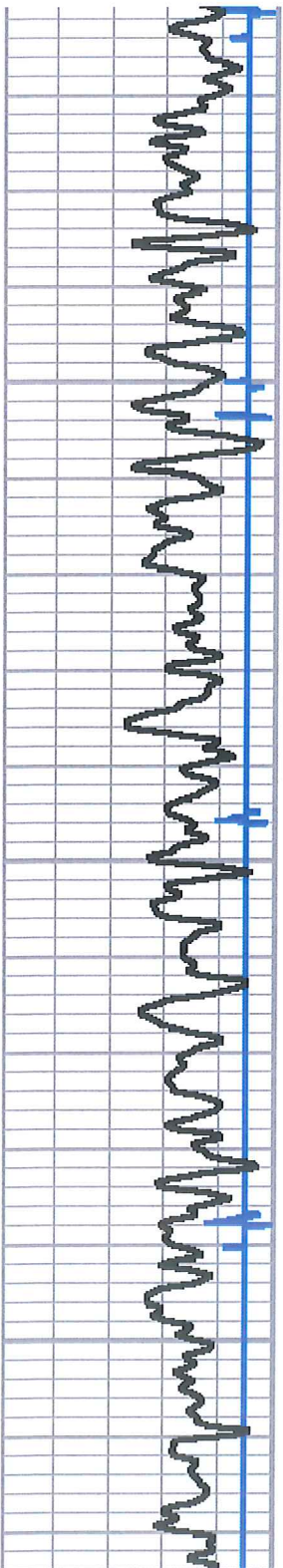
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78



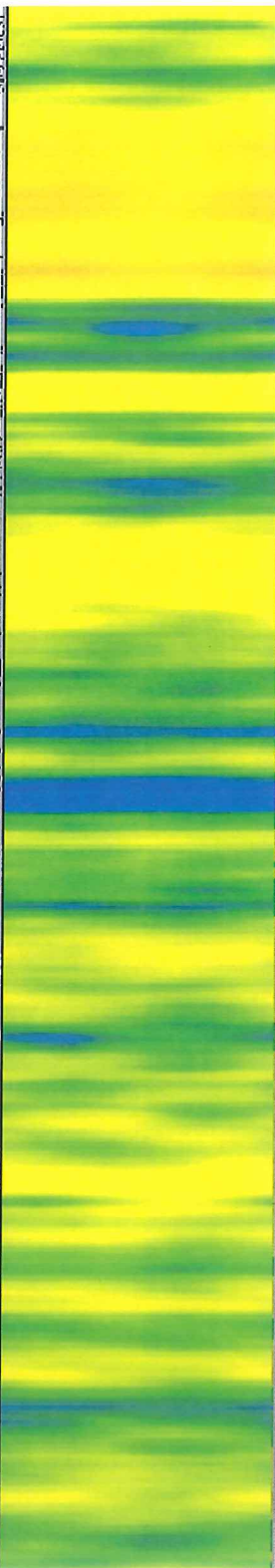
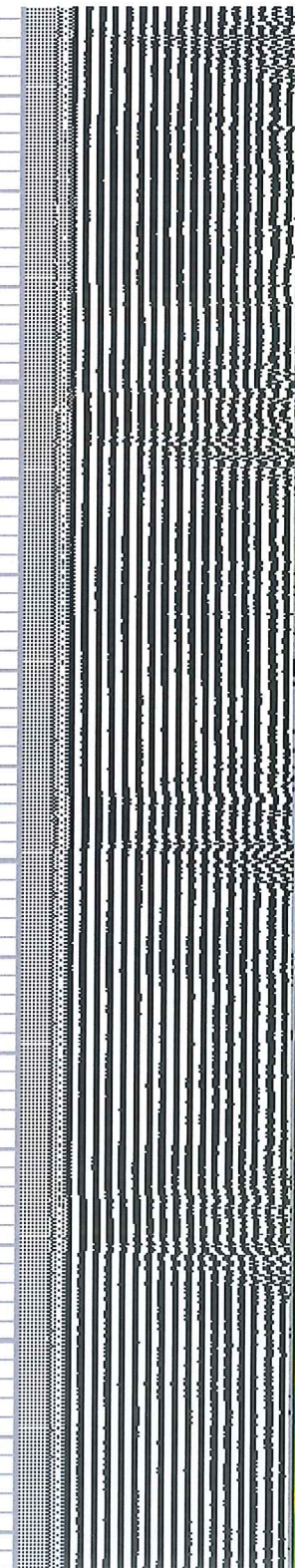
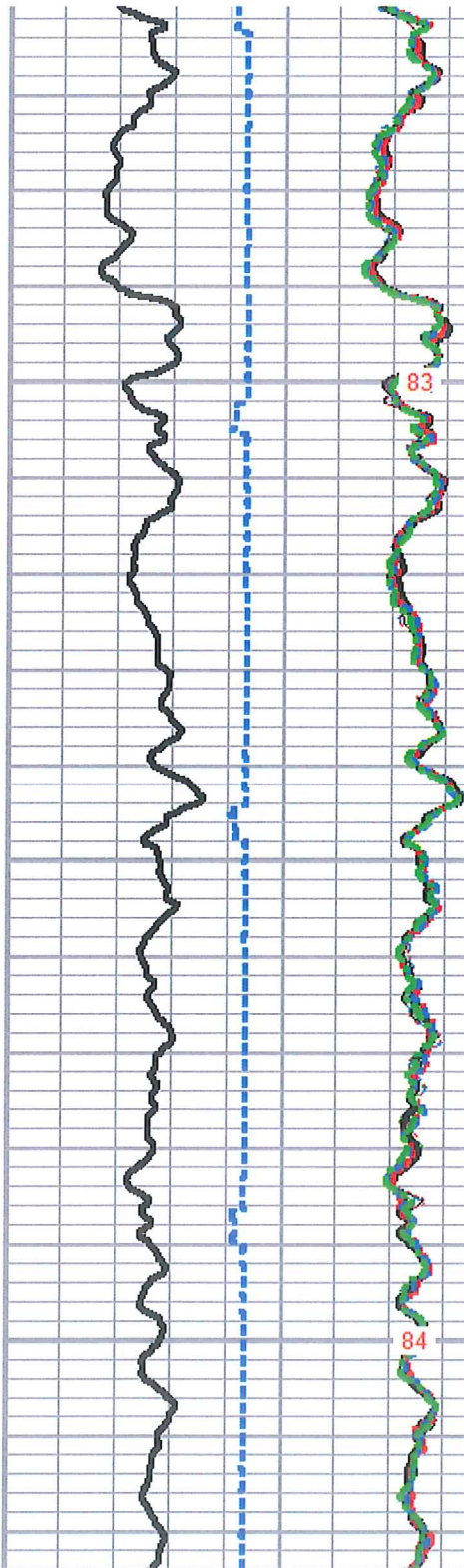


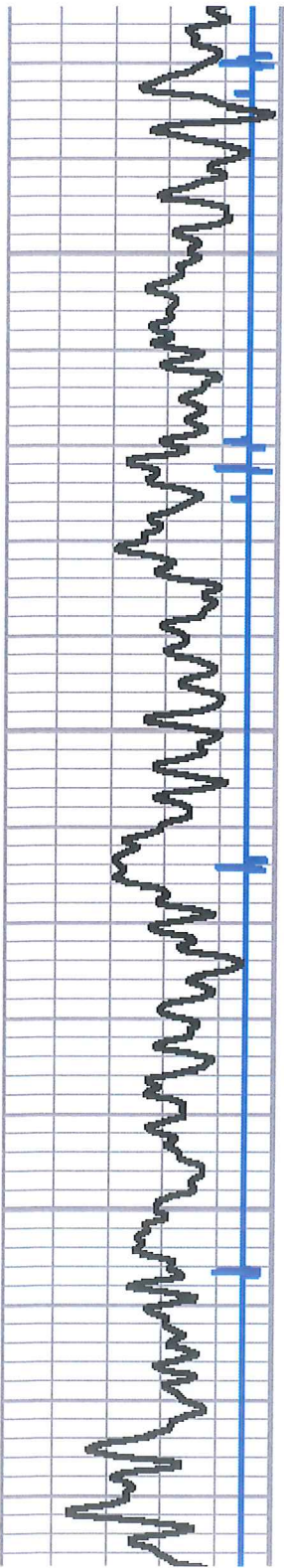


3100

3150

3200

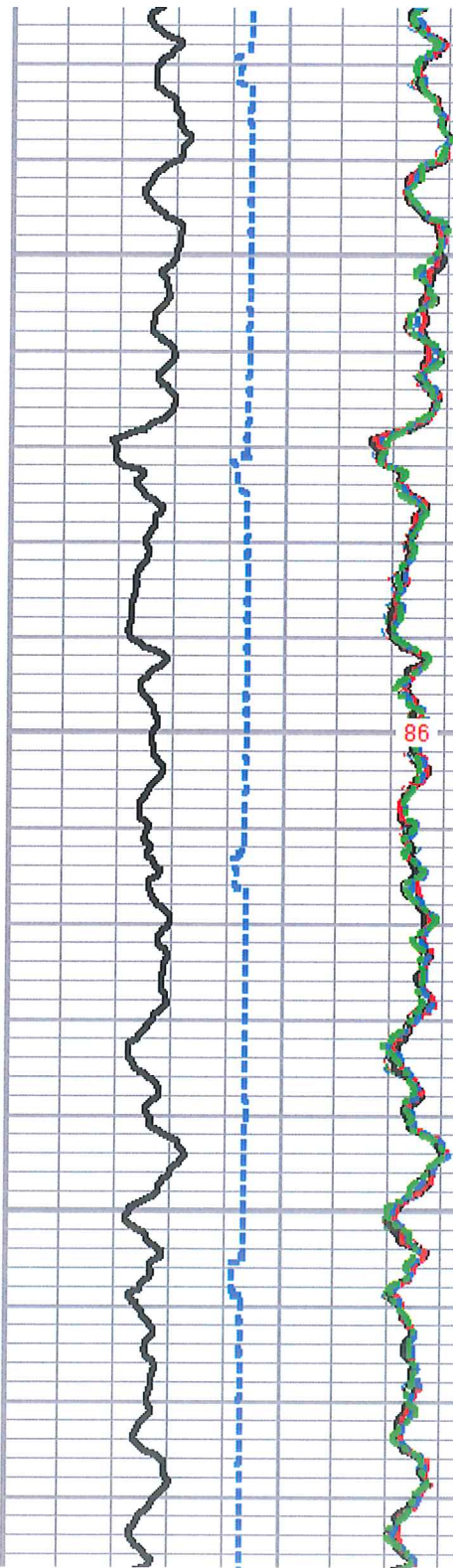




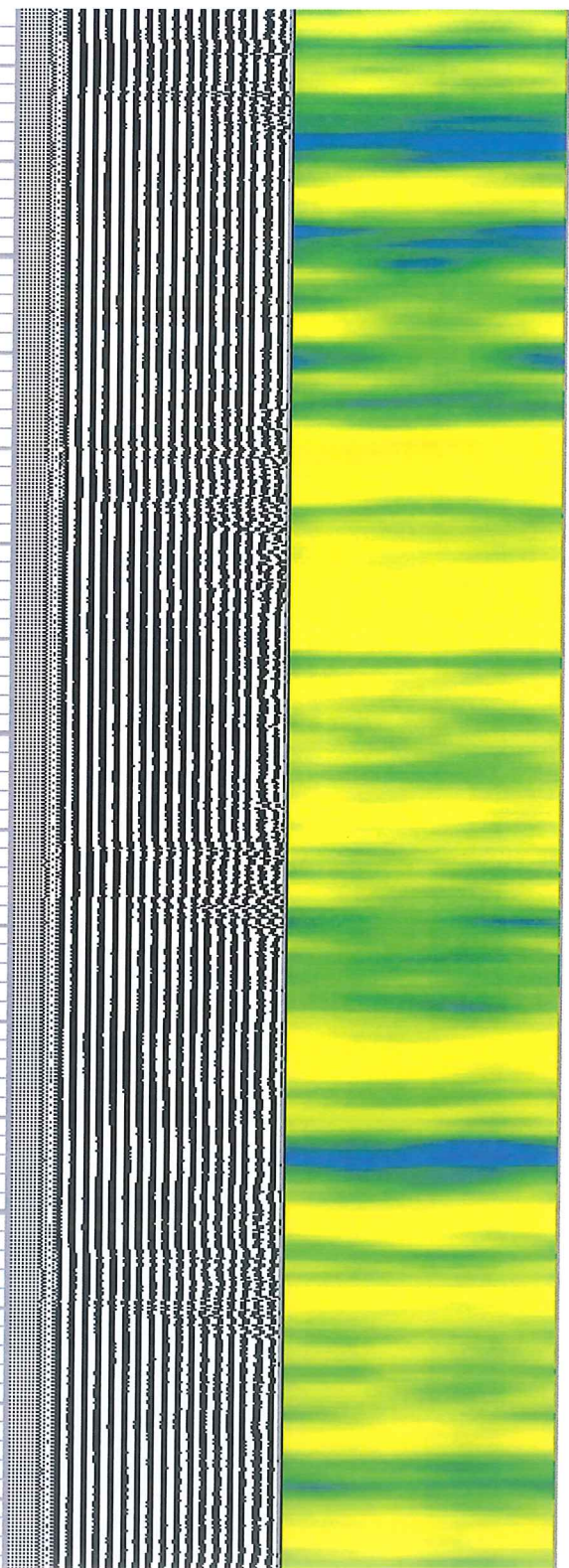
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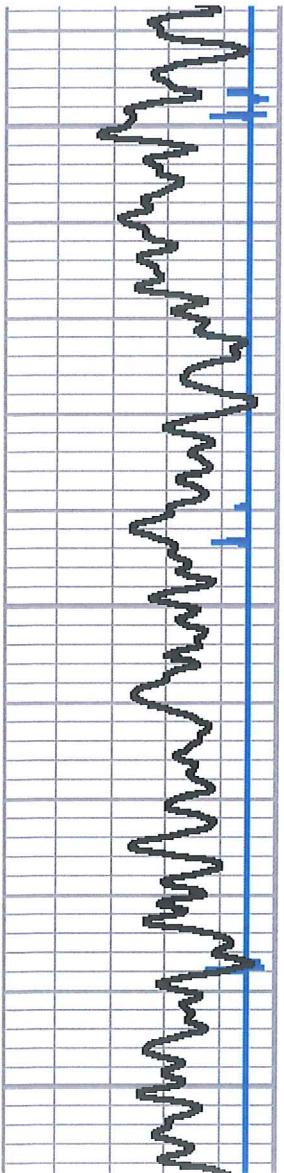
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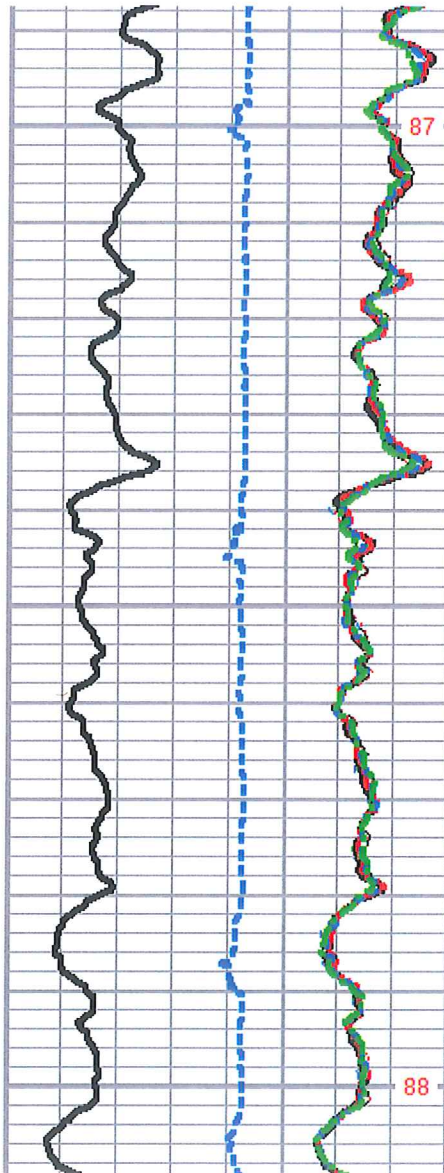




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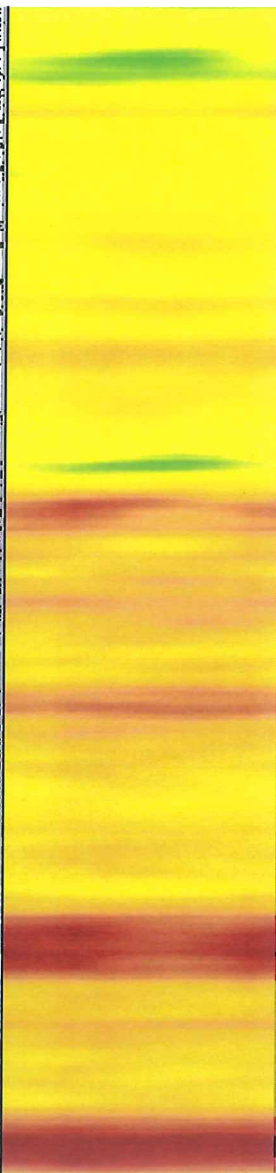
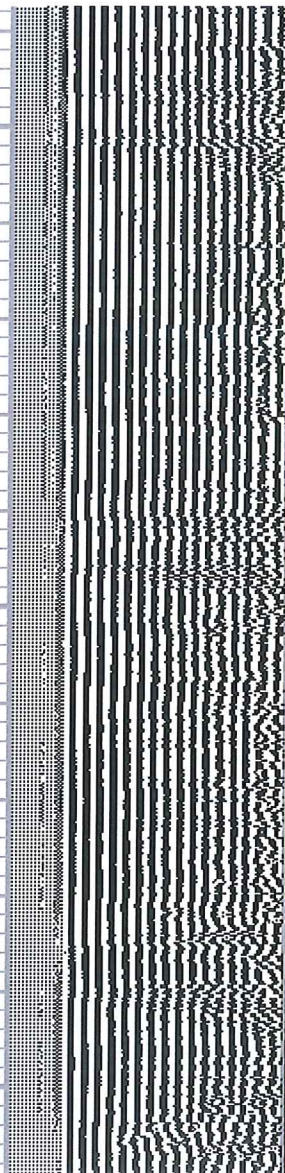
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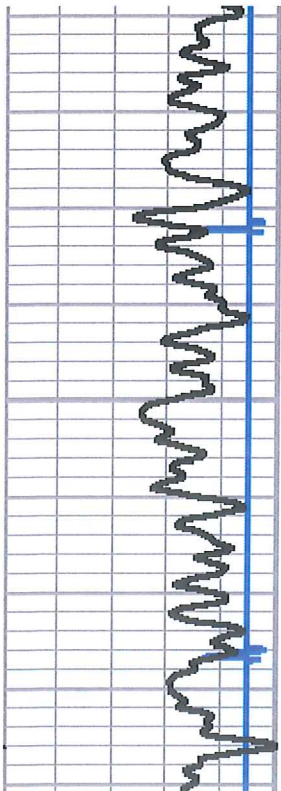
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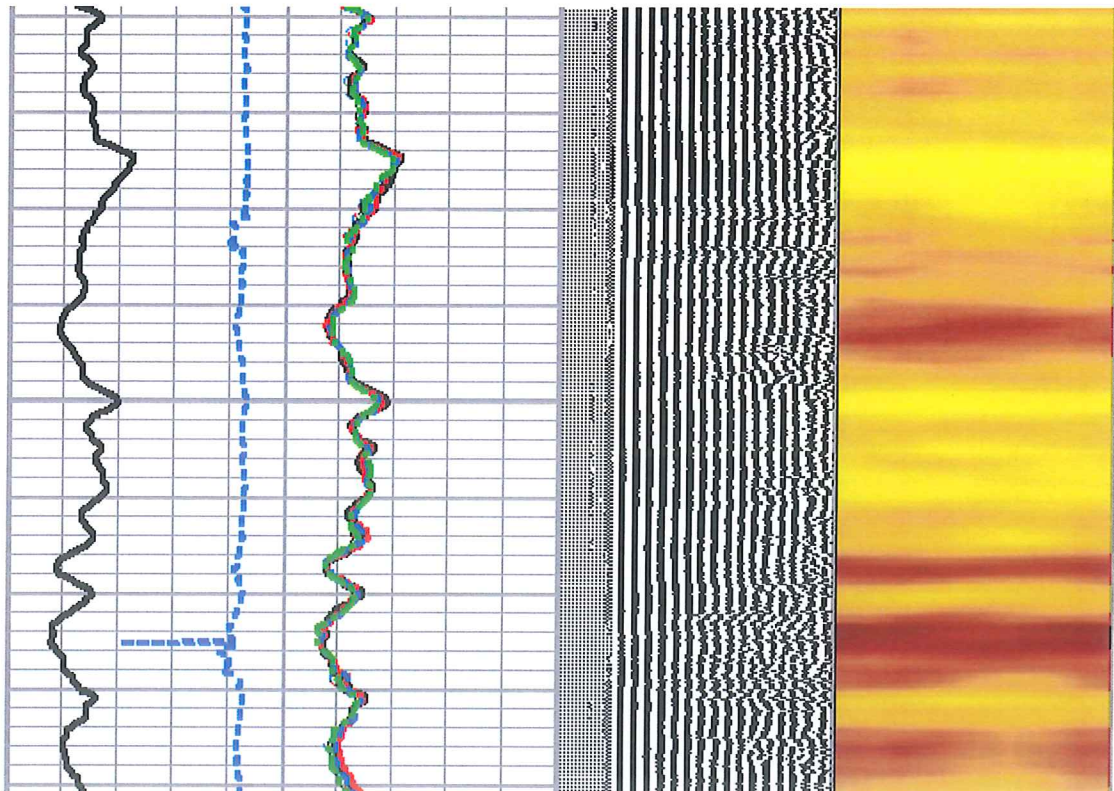
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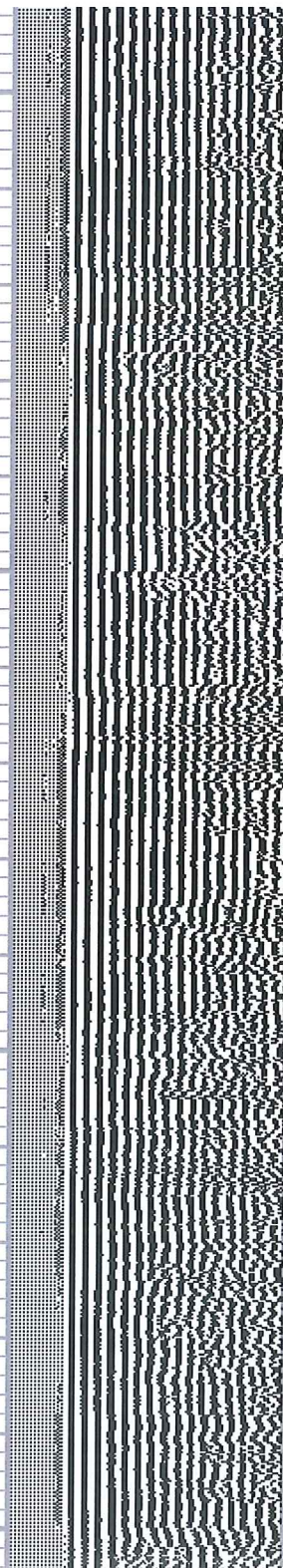
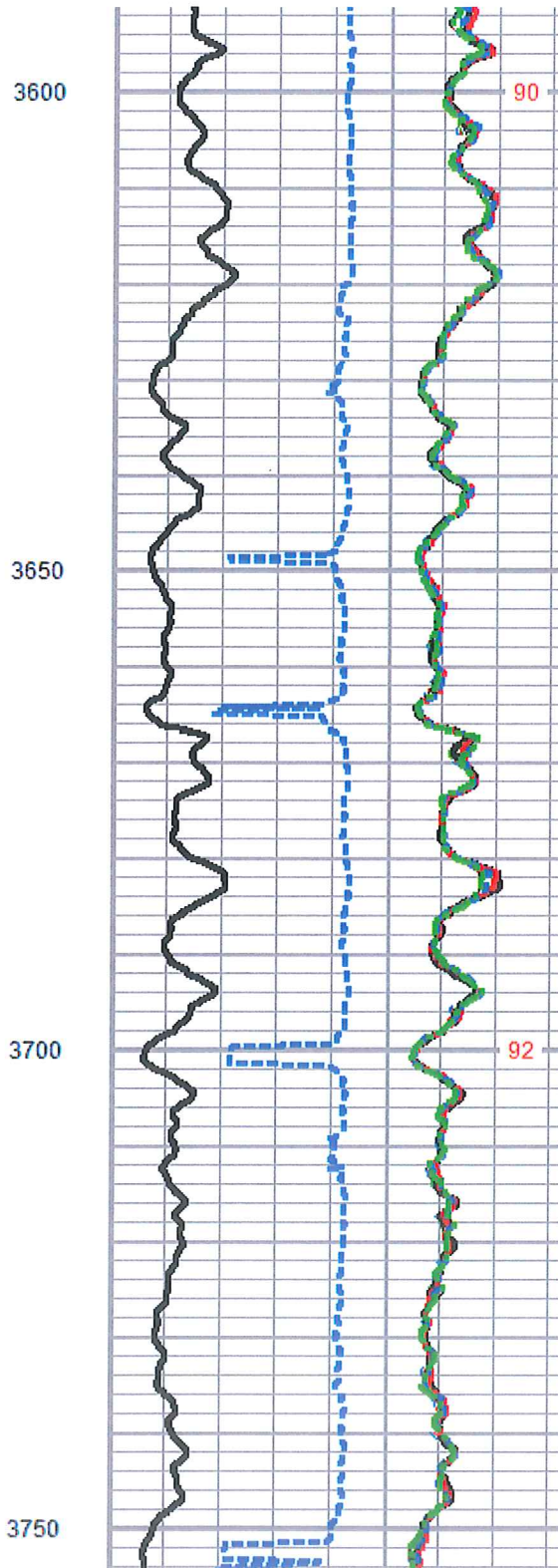
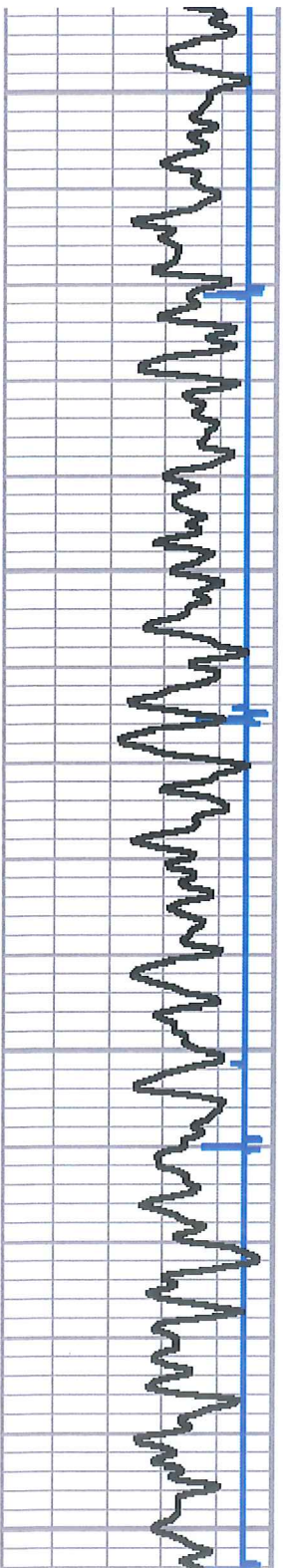
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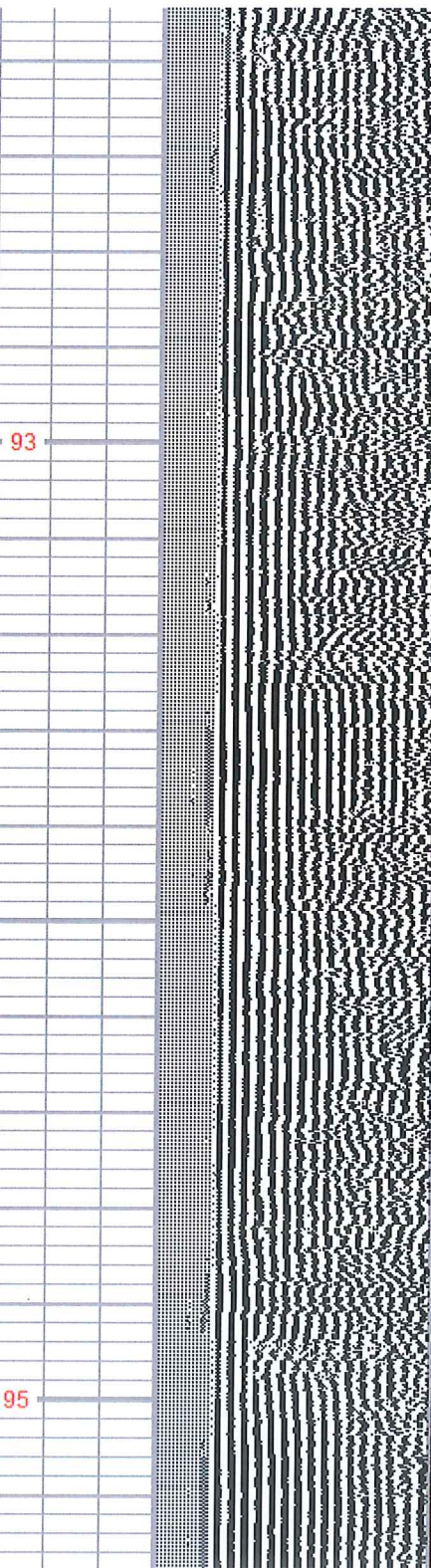
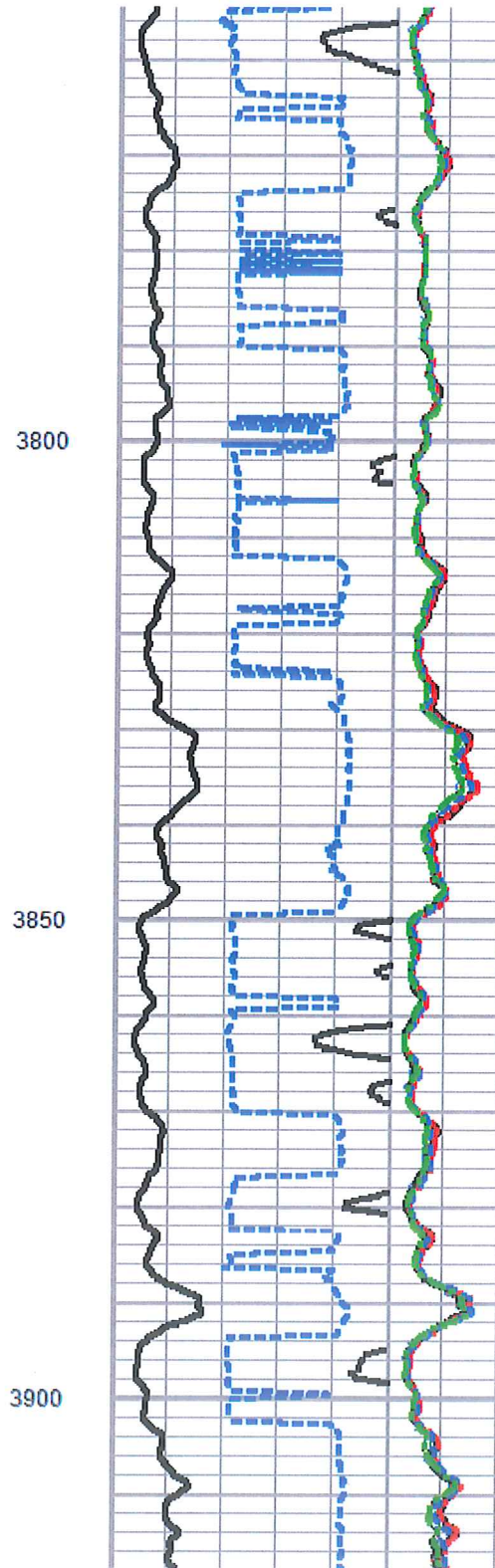
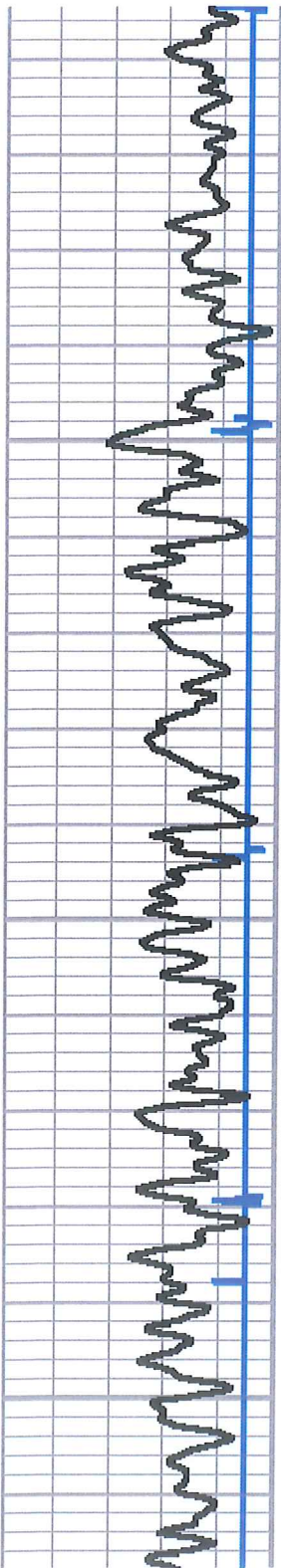


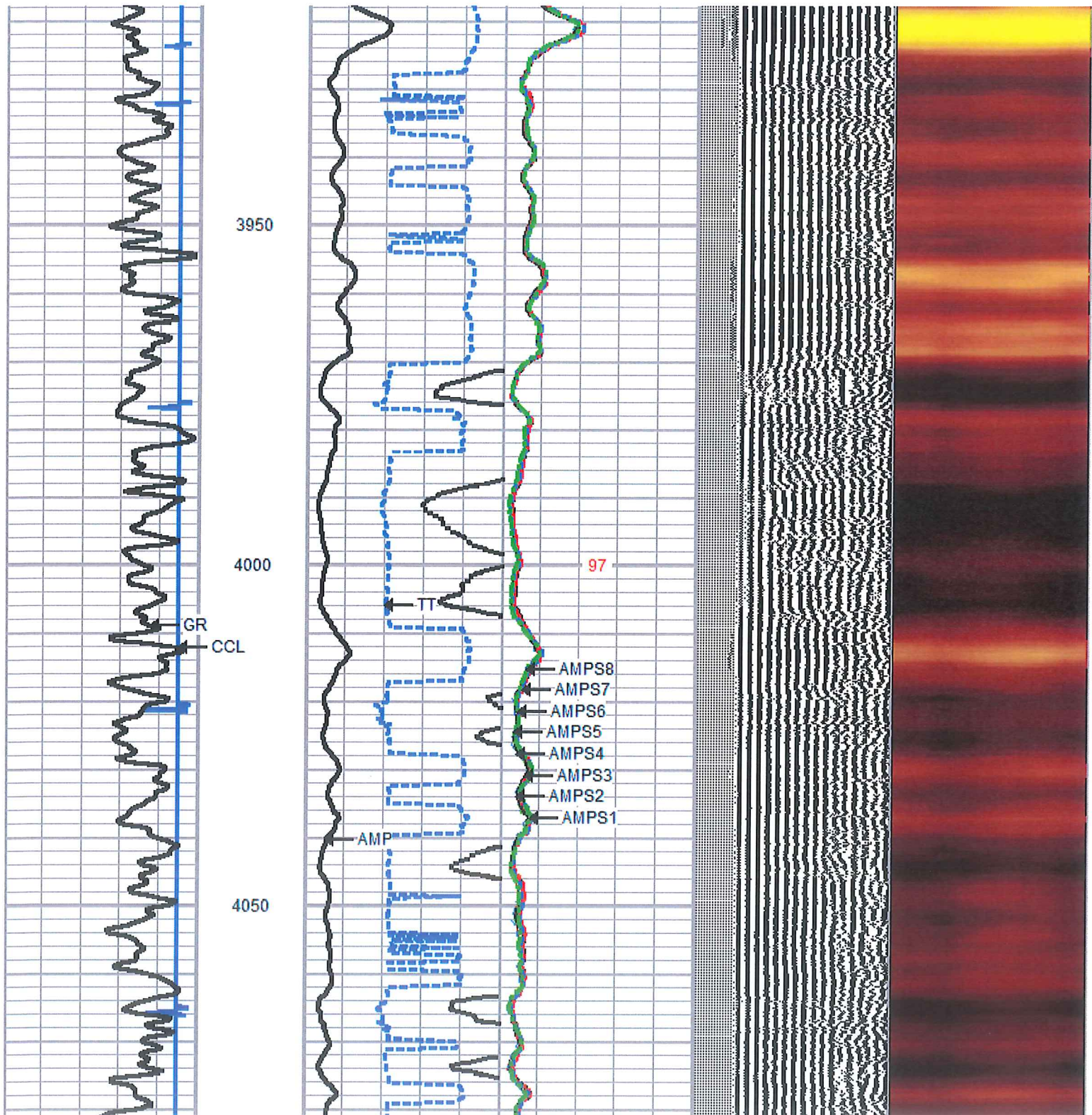


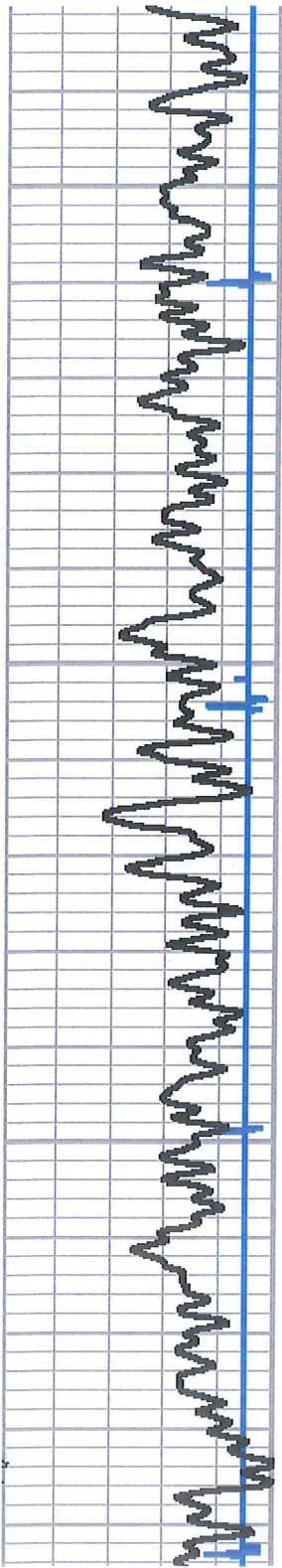
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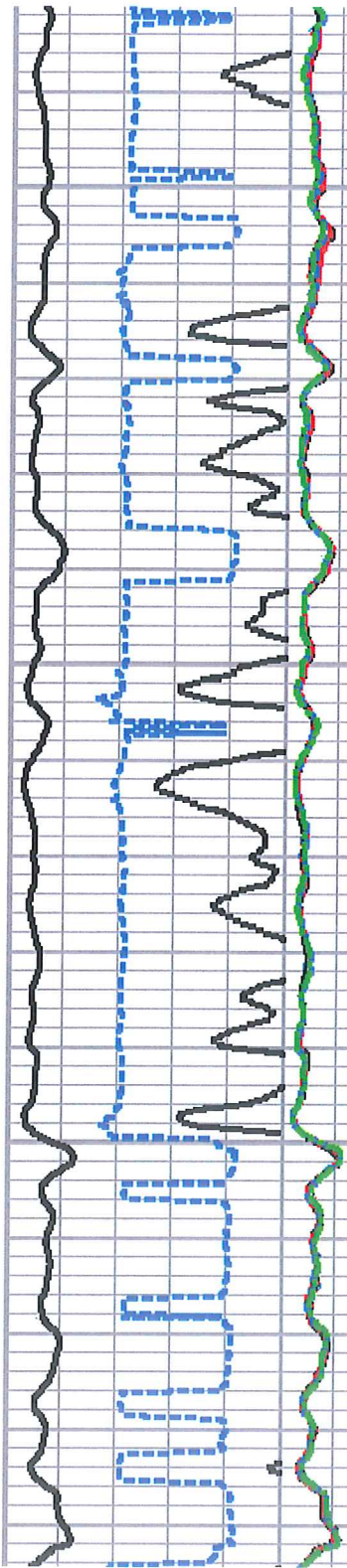




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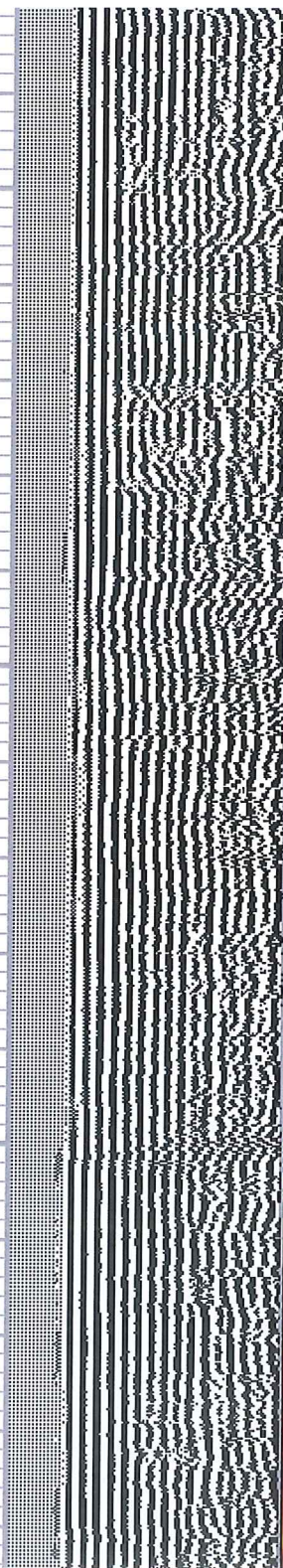
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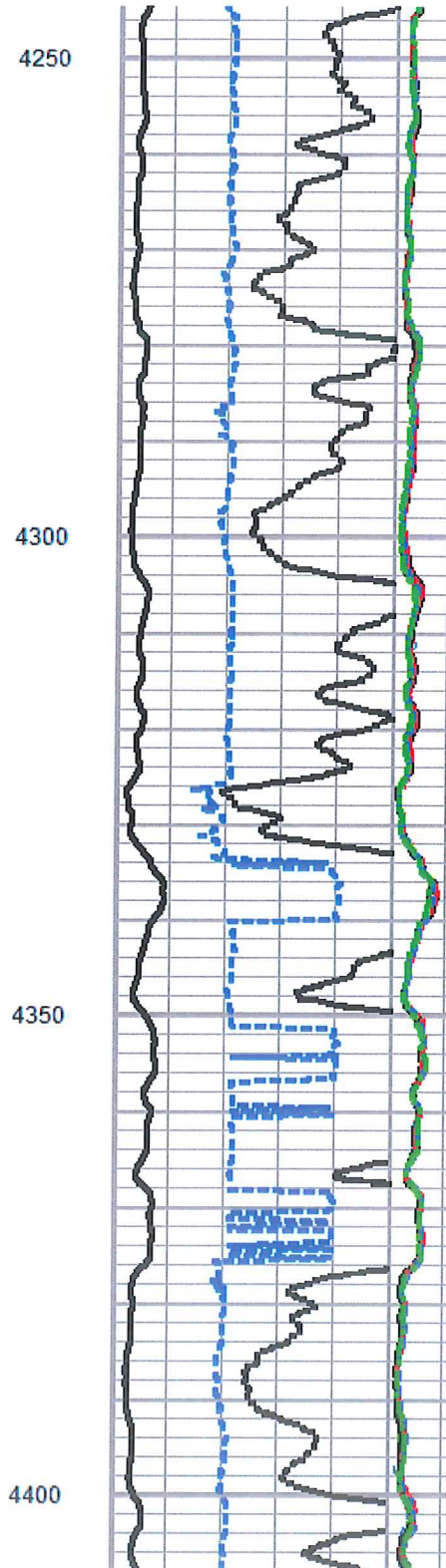
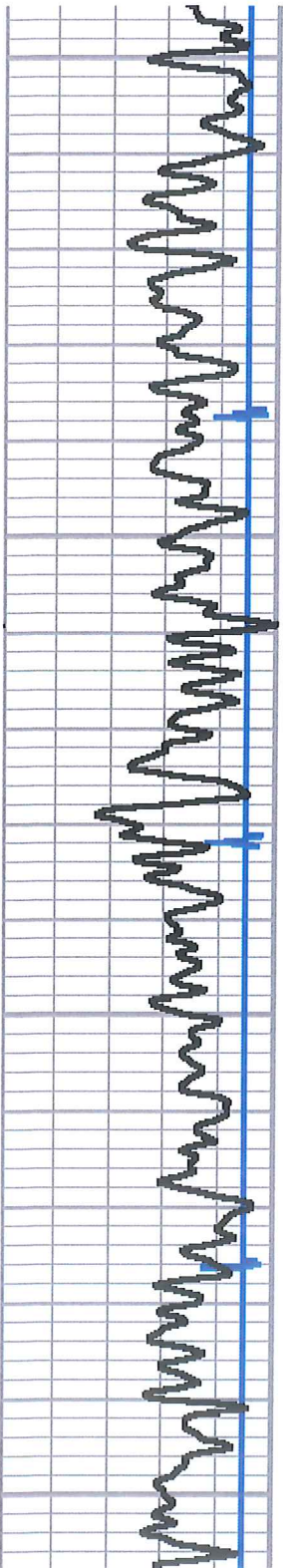
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98

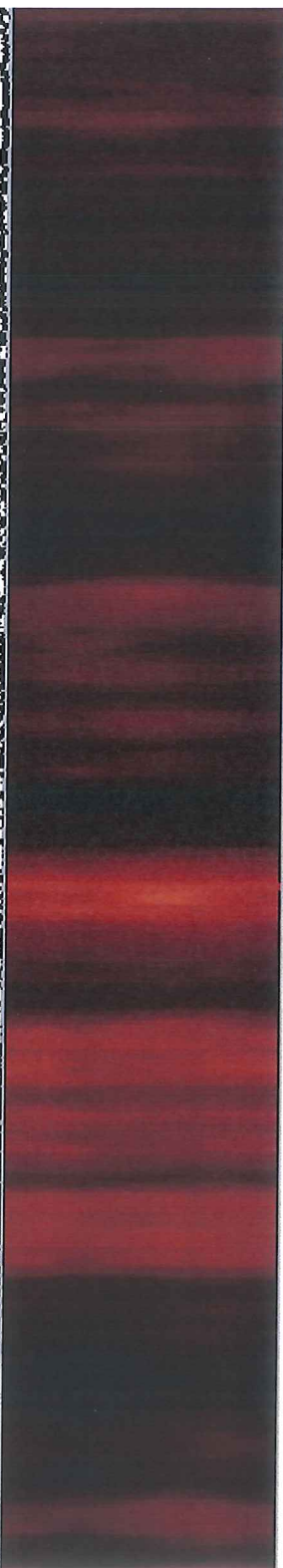
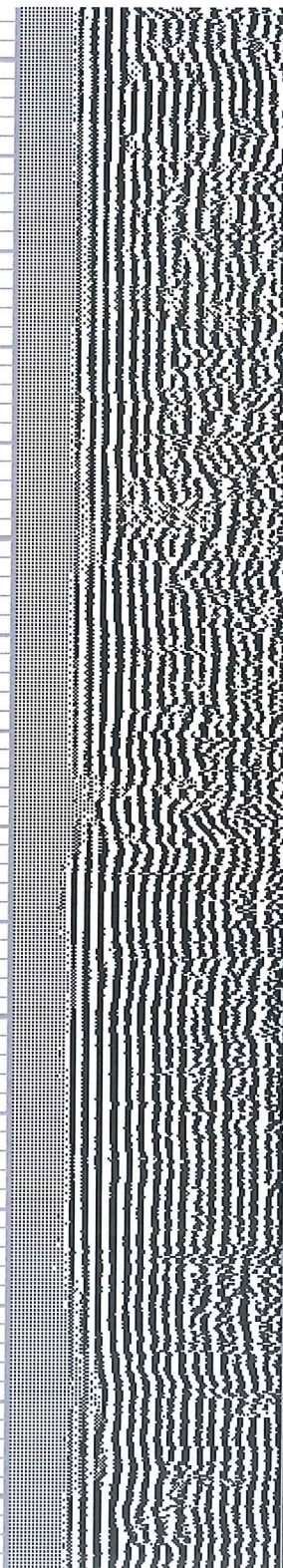
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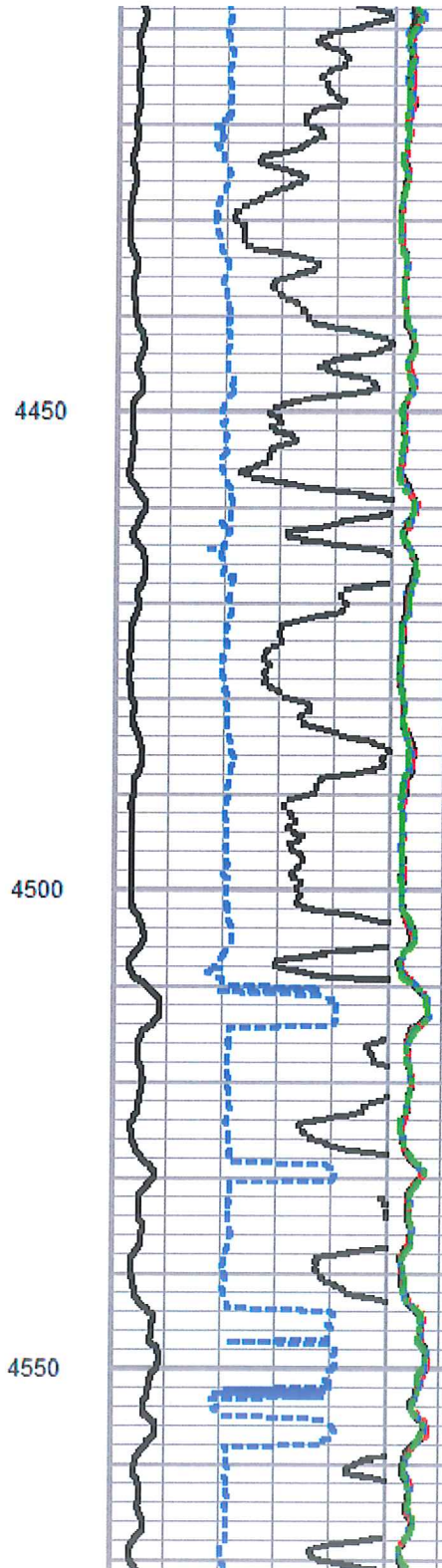
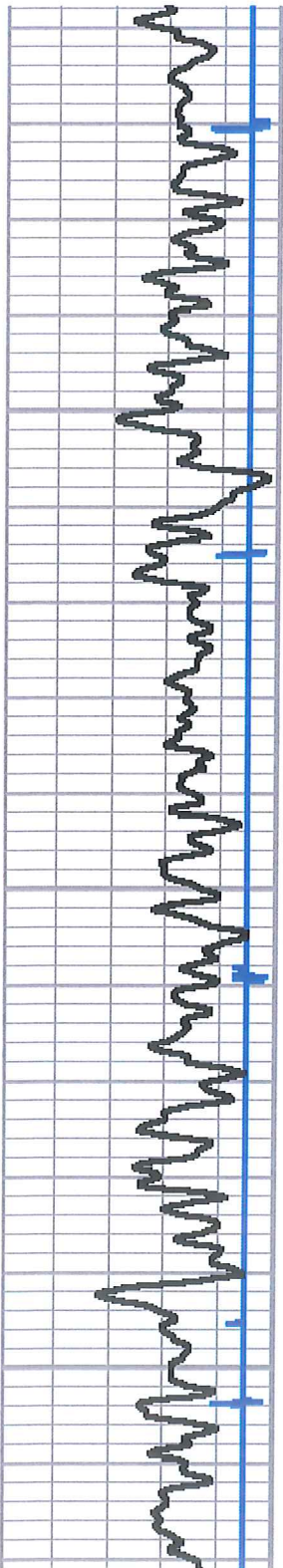




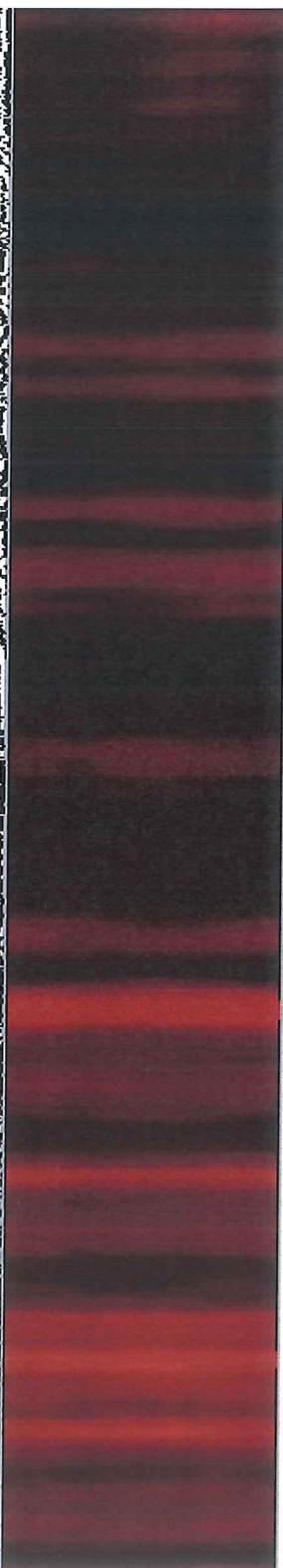
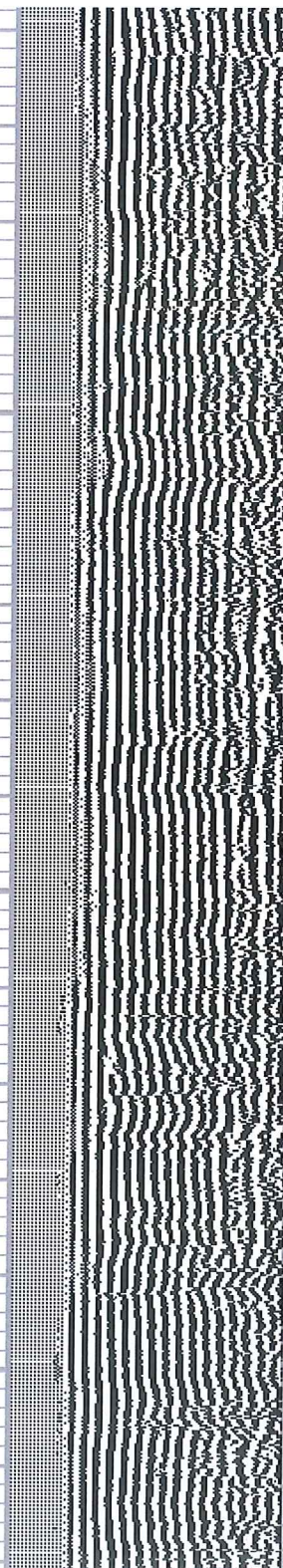
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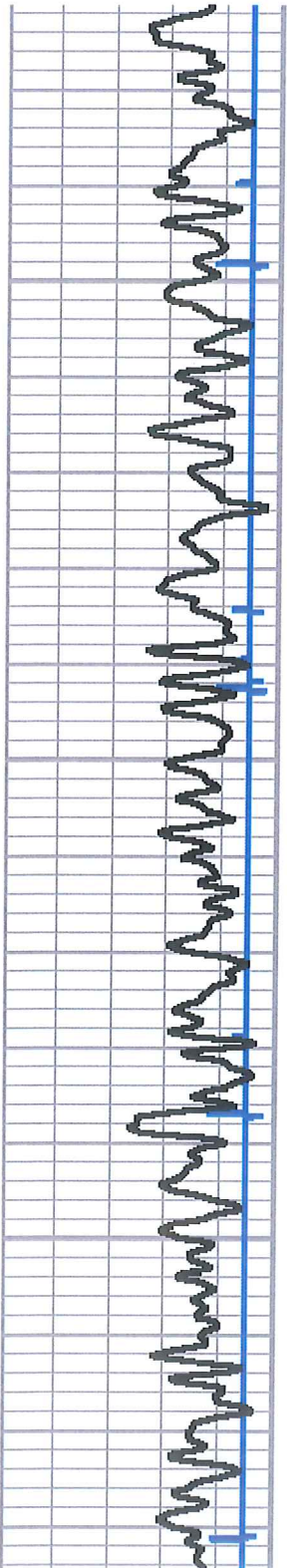
104





106

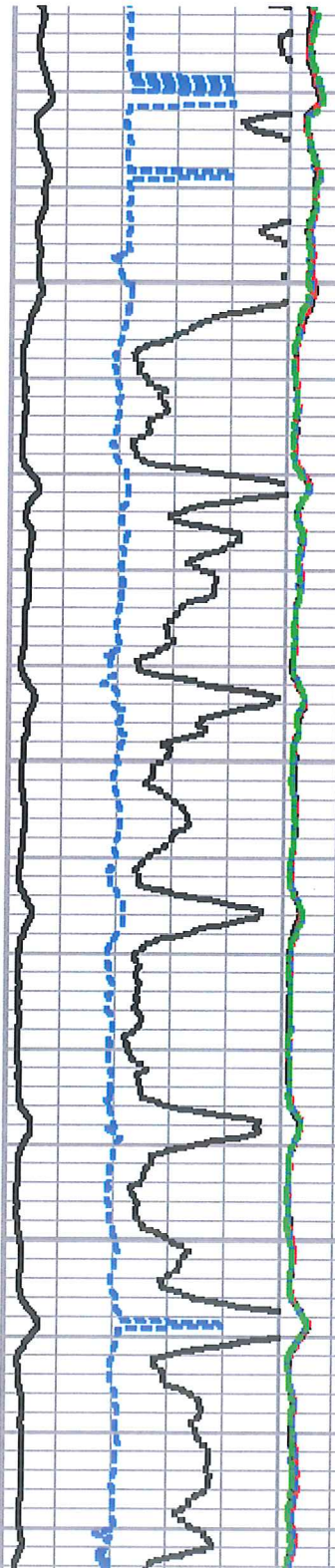




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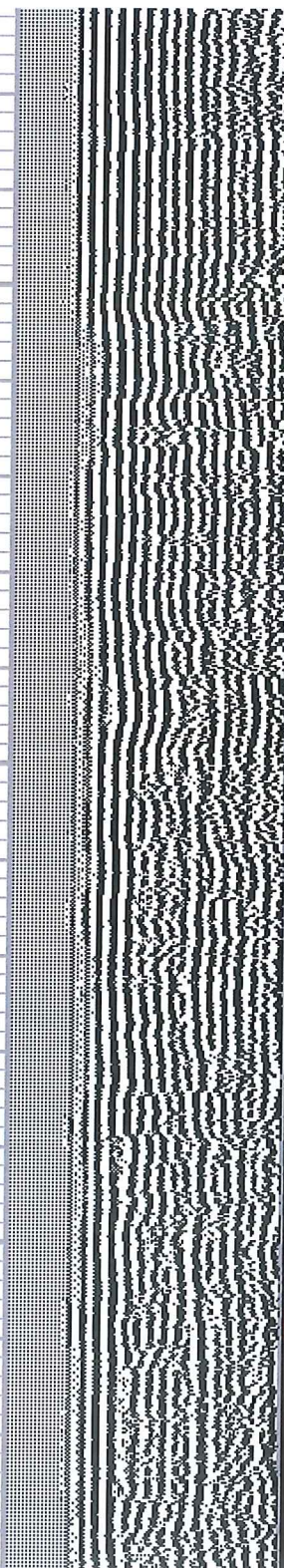
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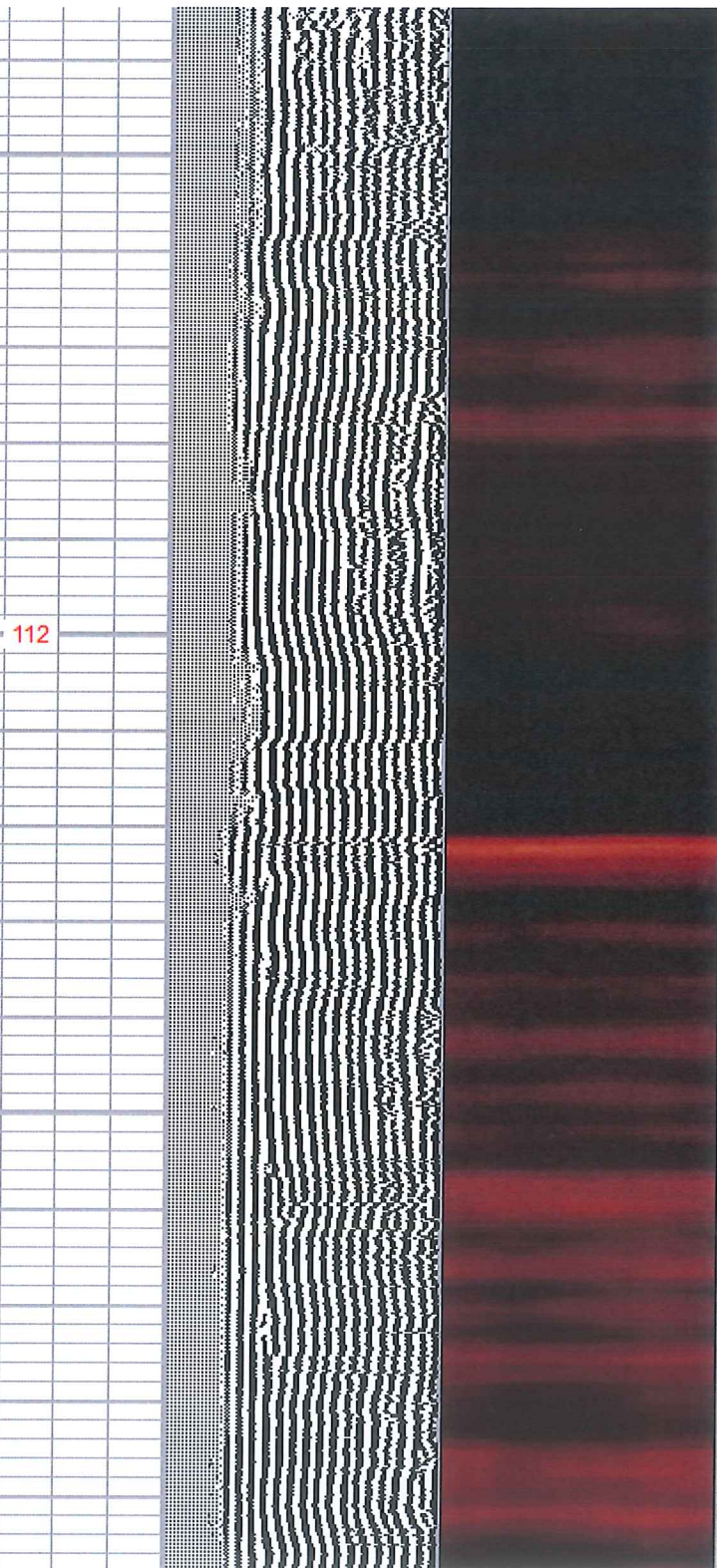
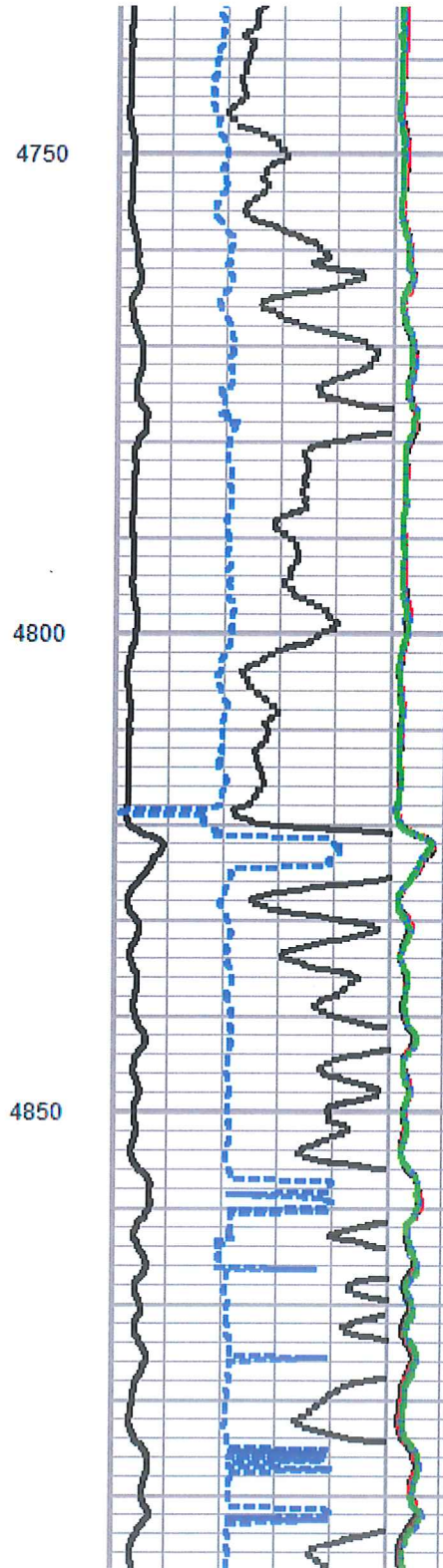
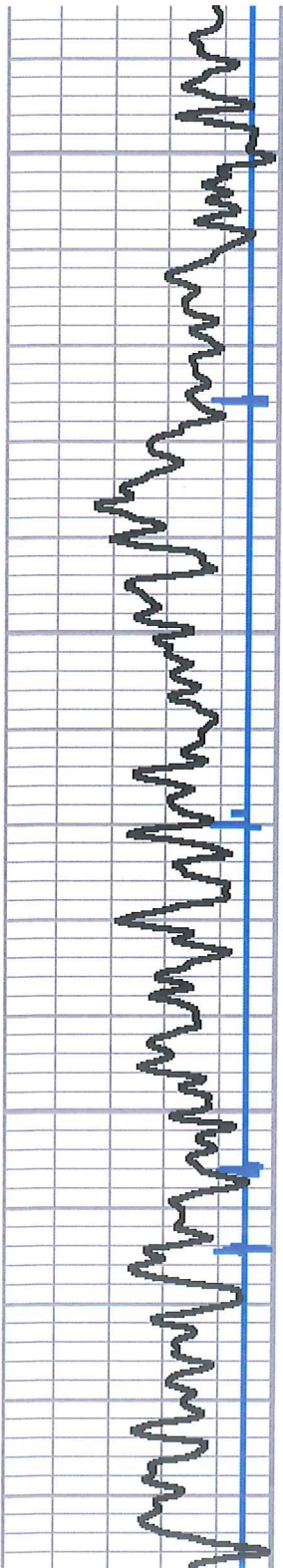
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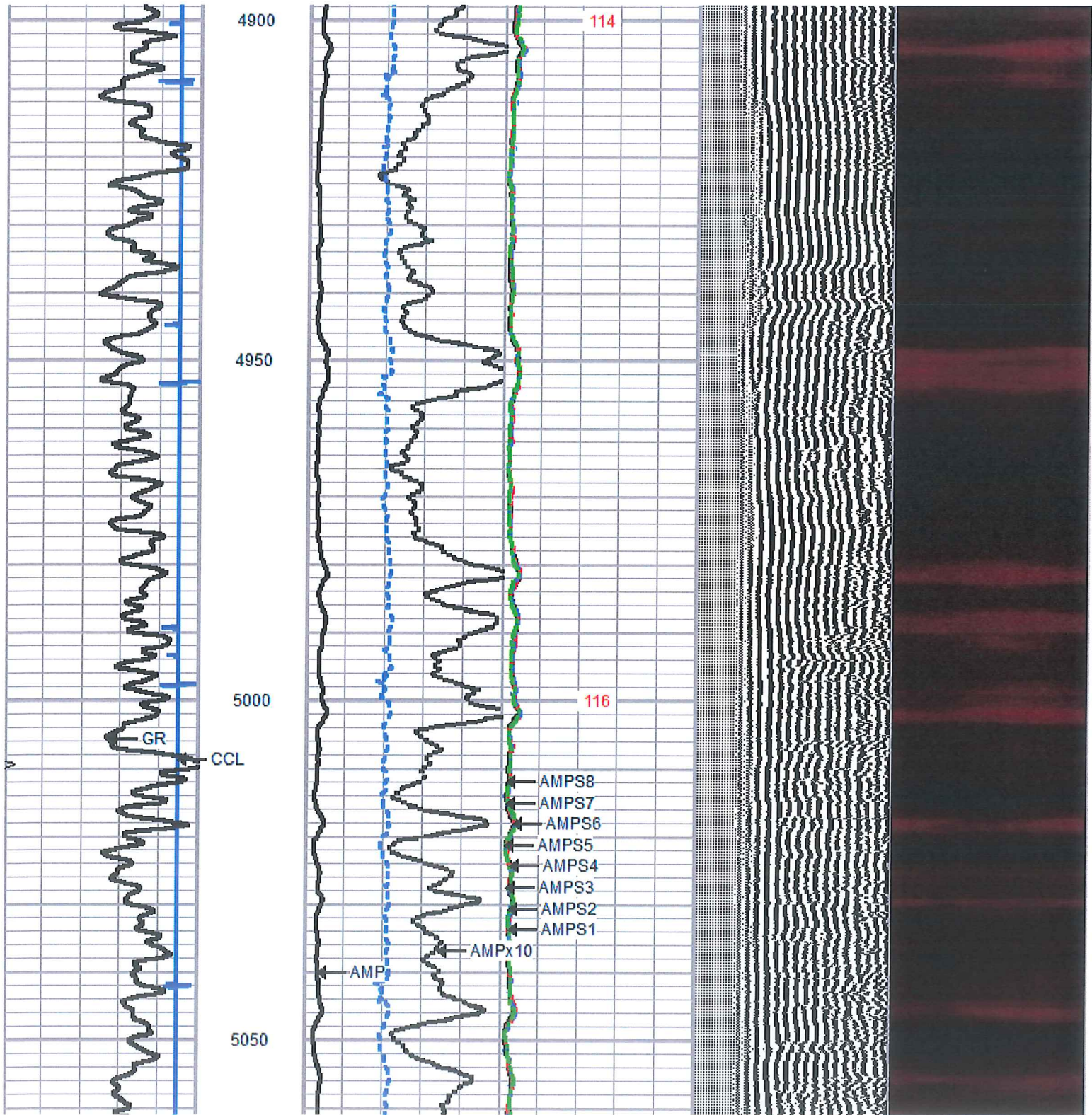


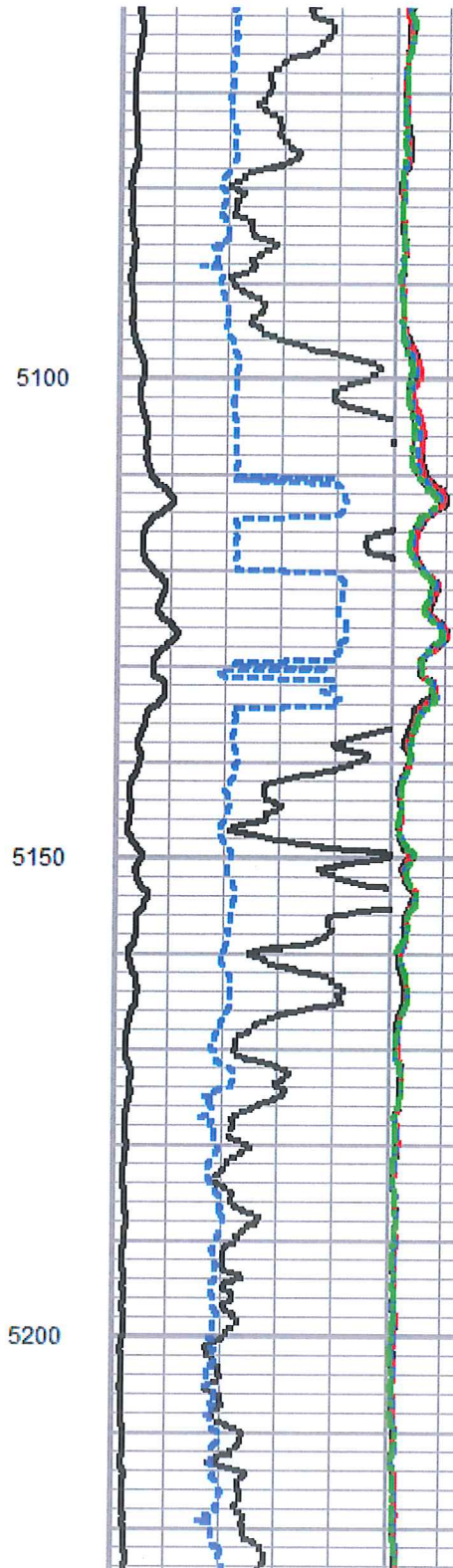
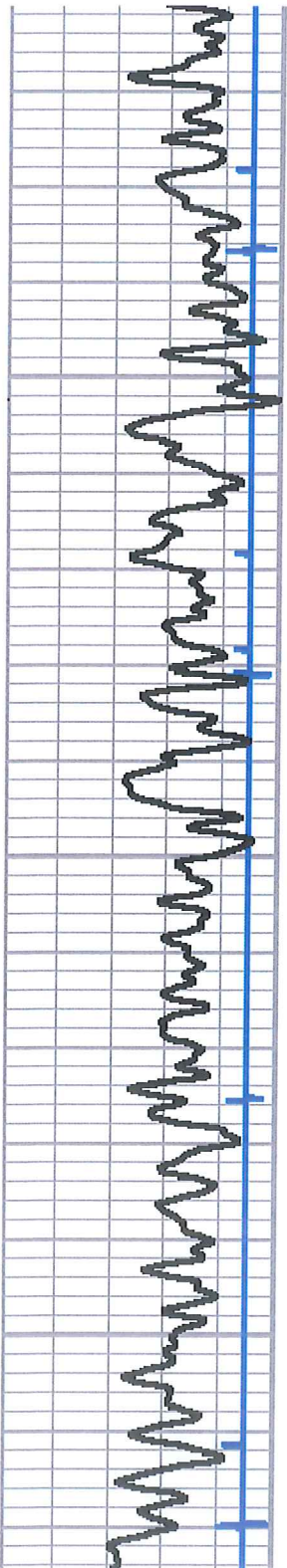
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110



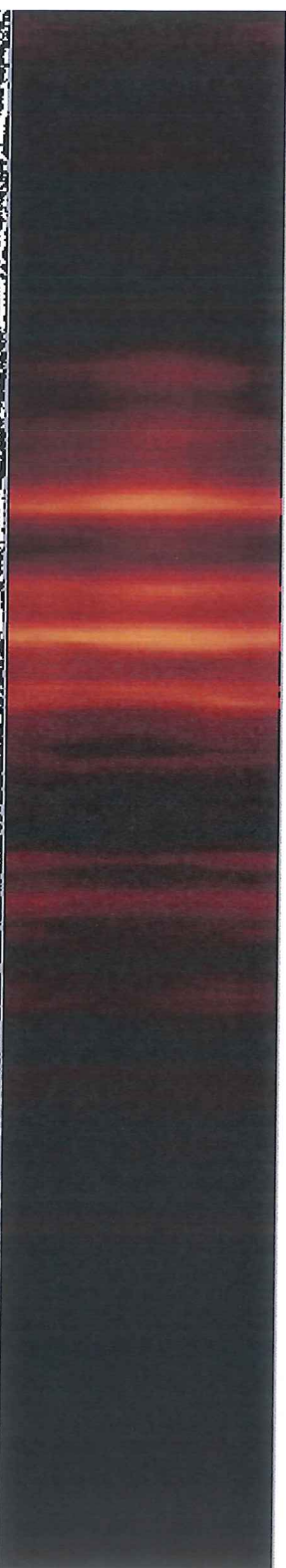
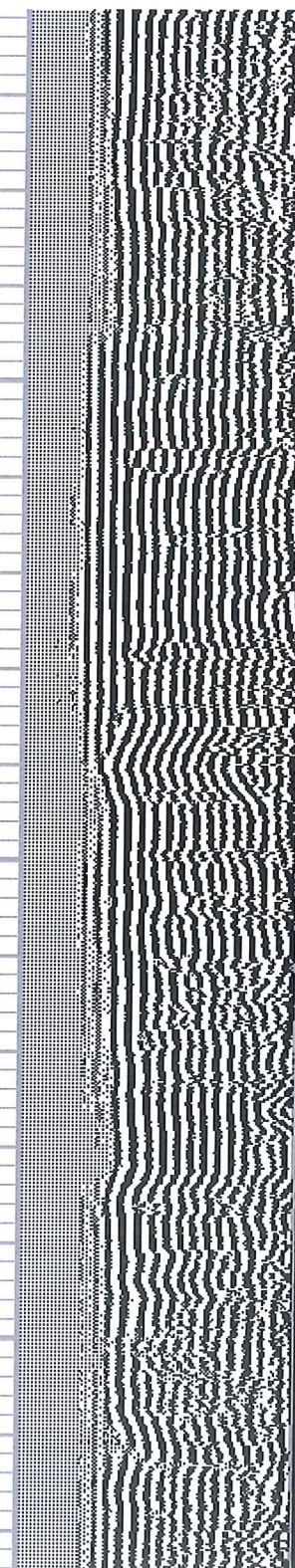


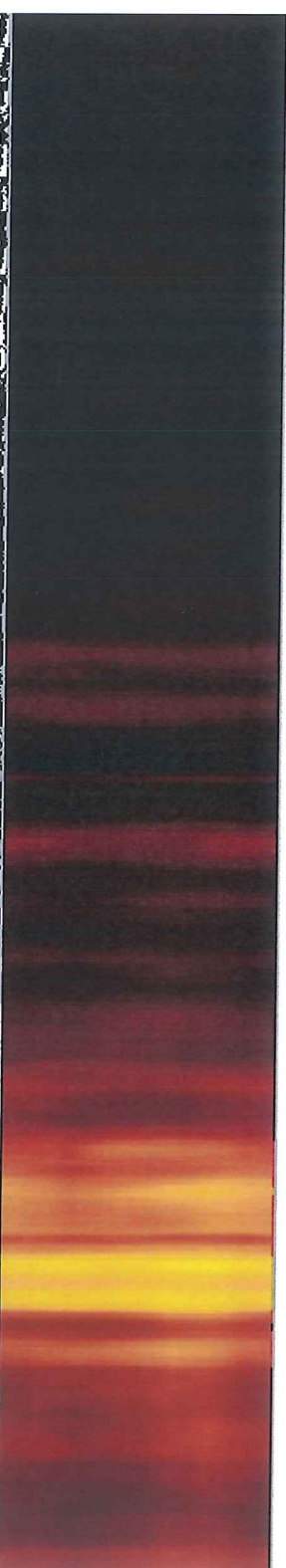
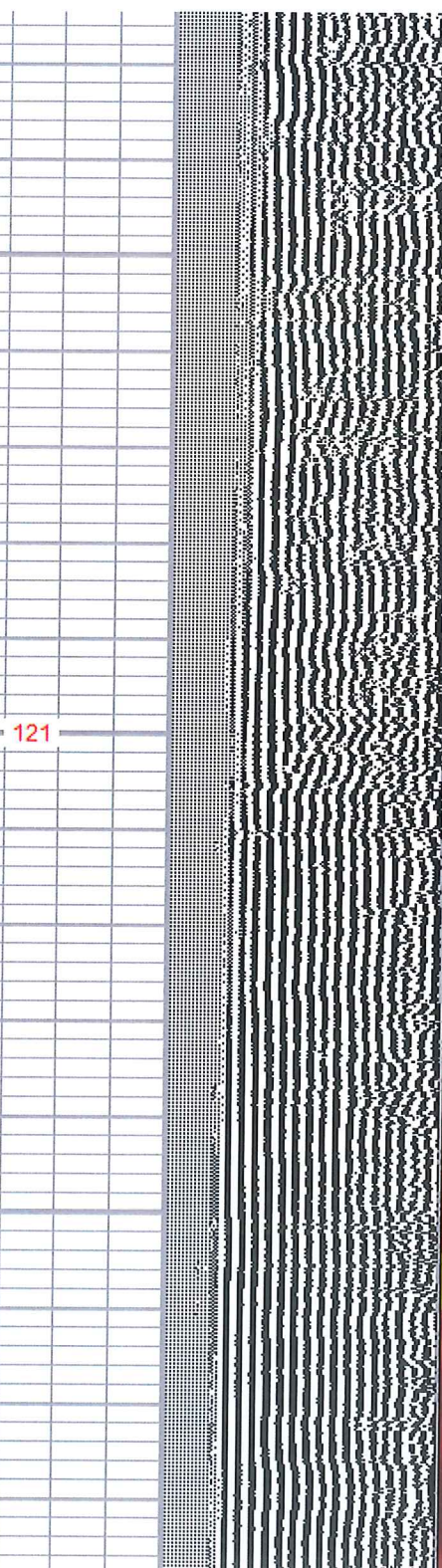
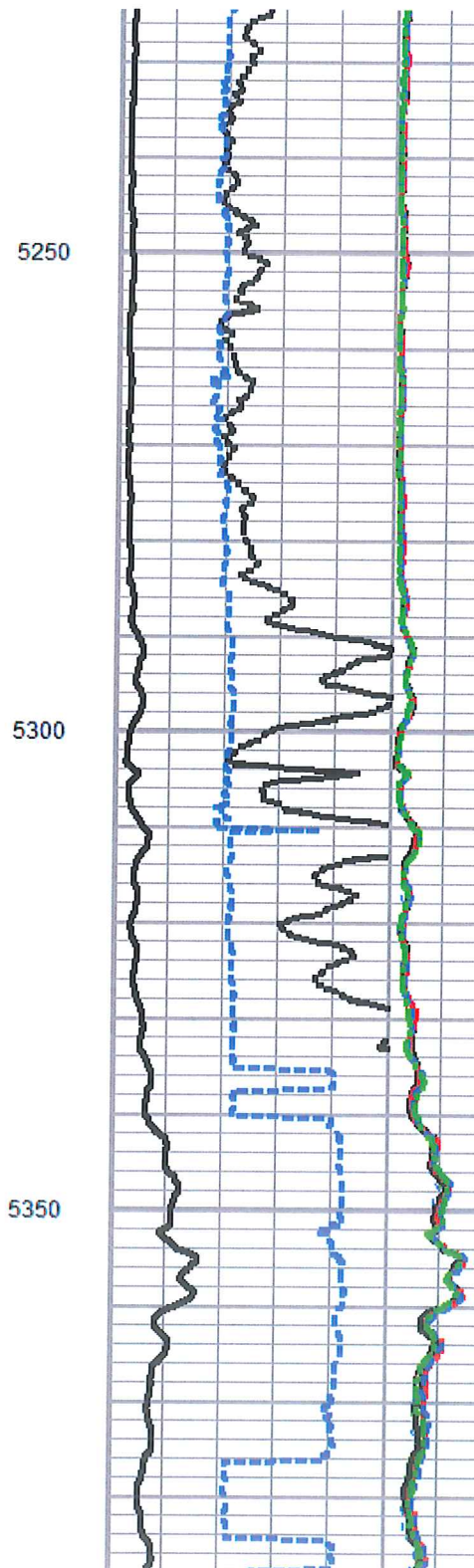
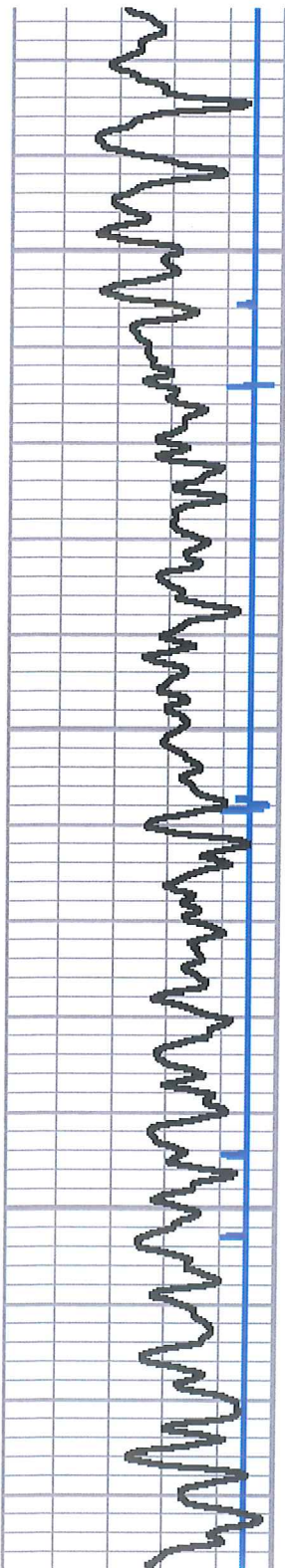


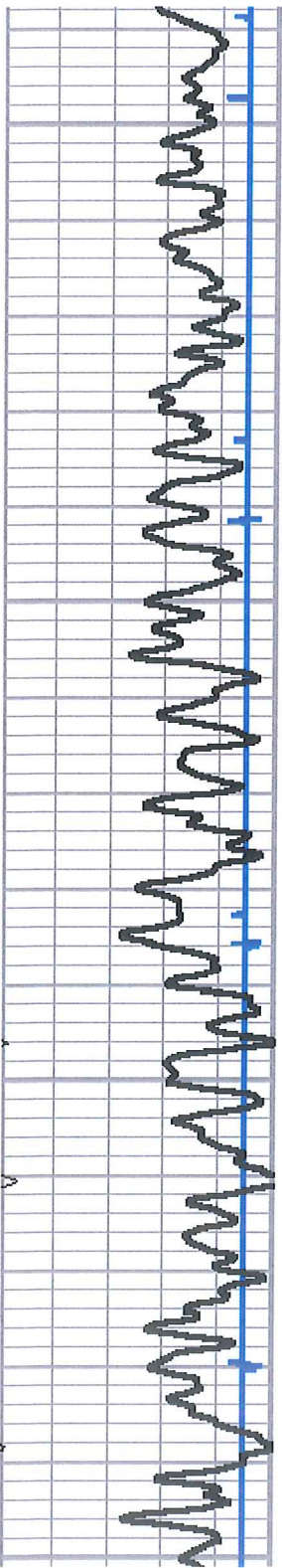


117

120





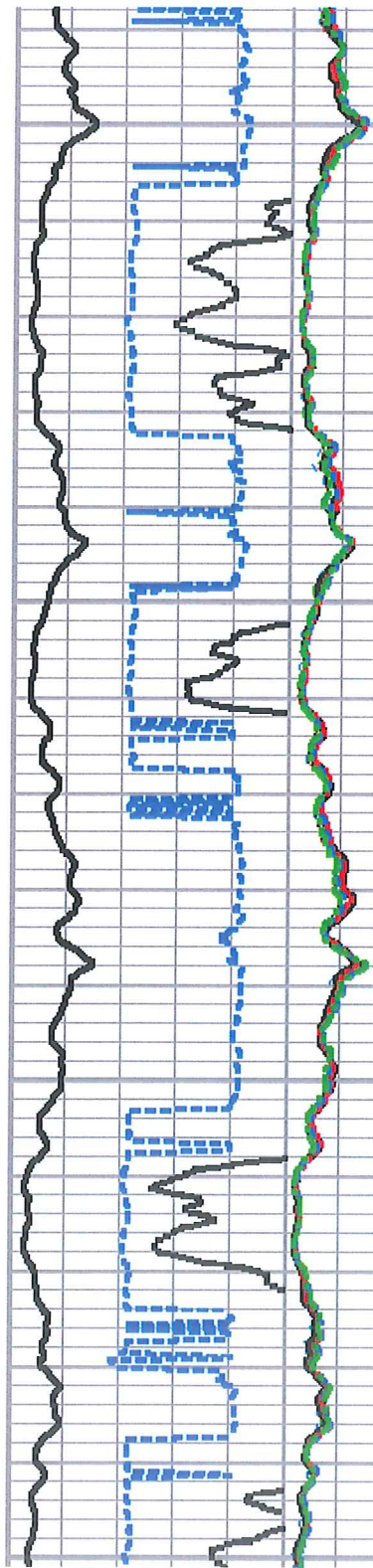


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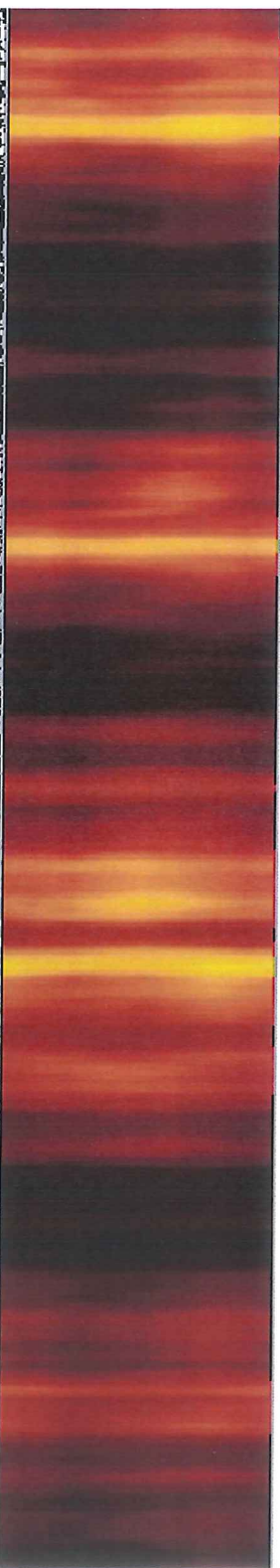
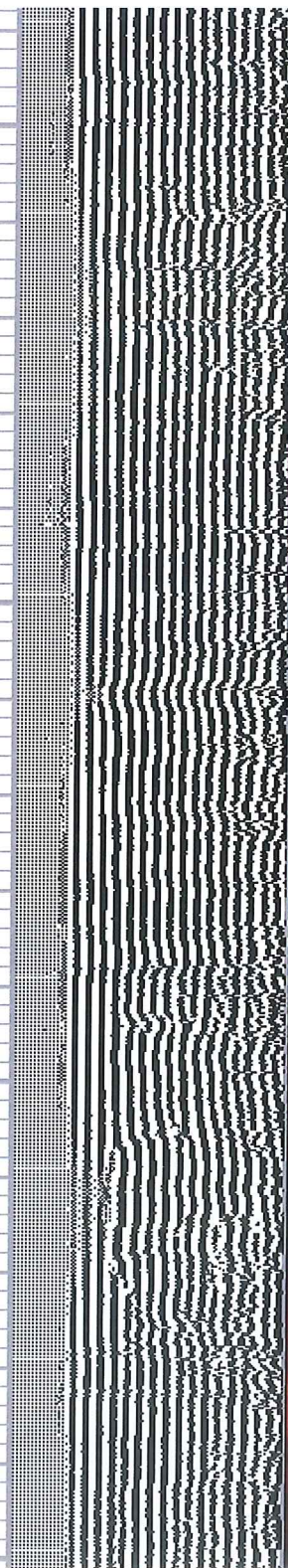
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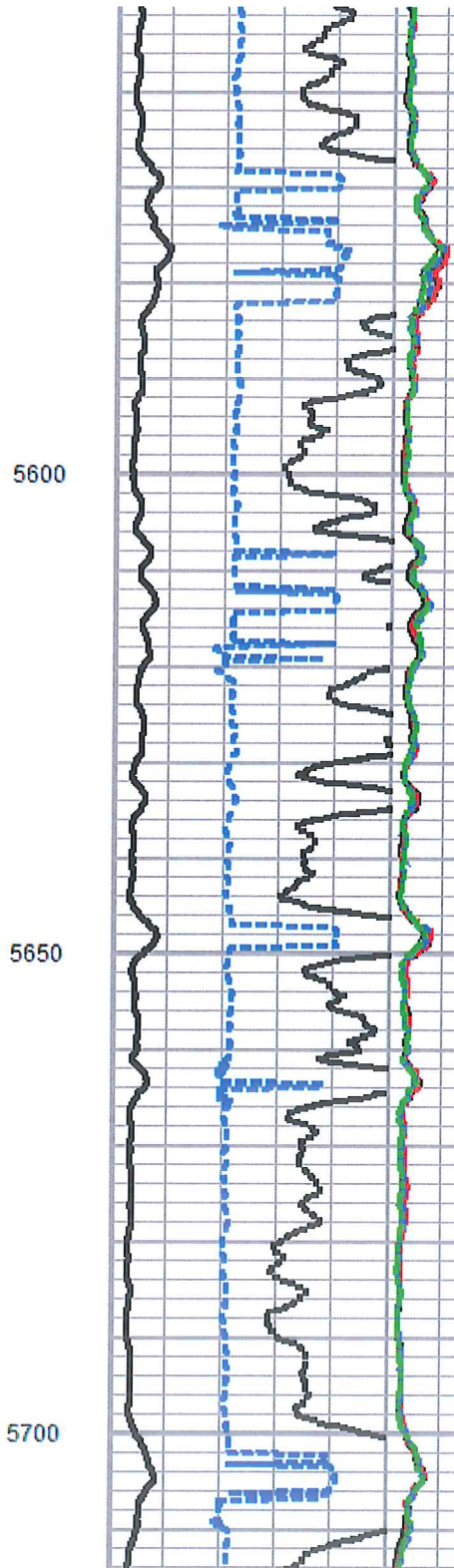
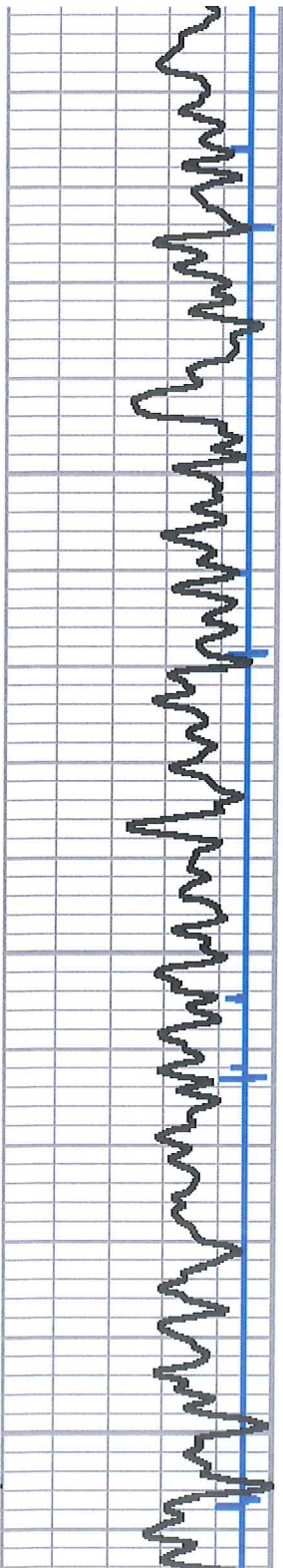
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123

125





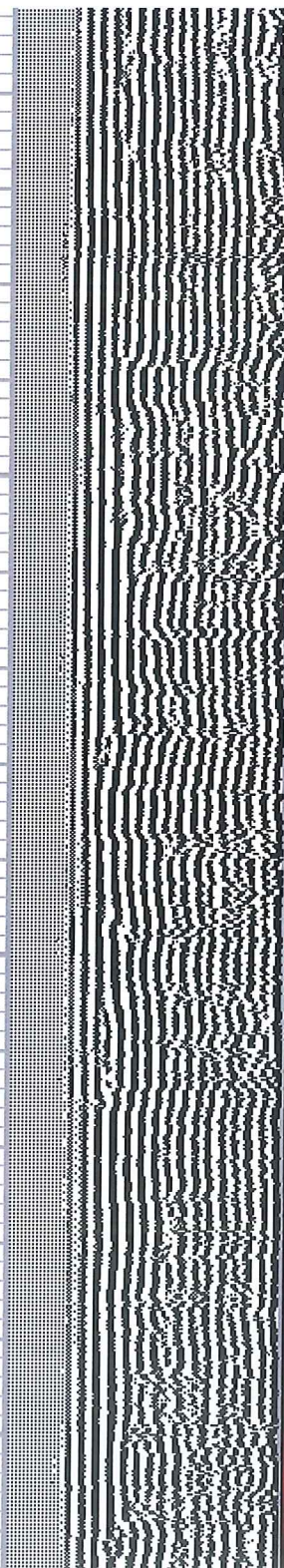
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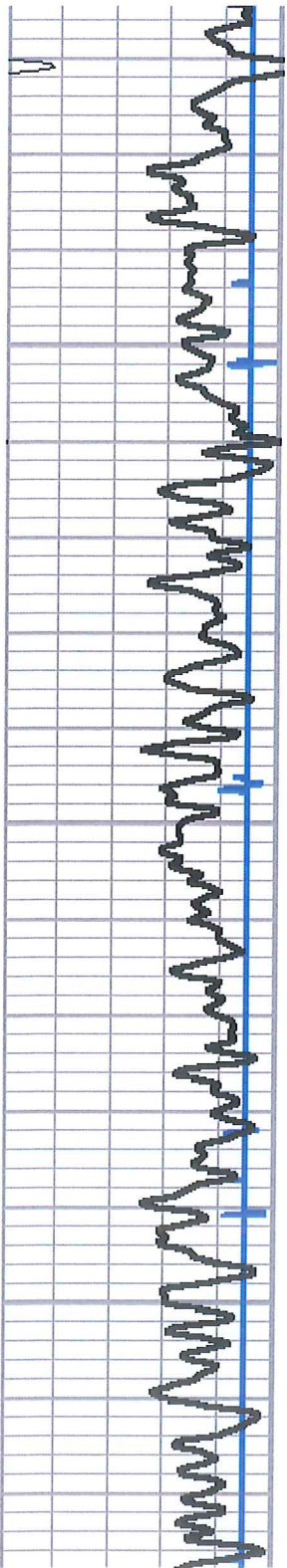
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5700

127

129

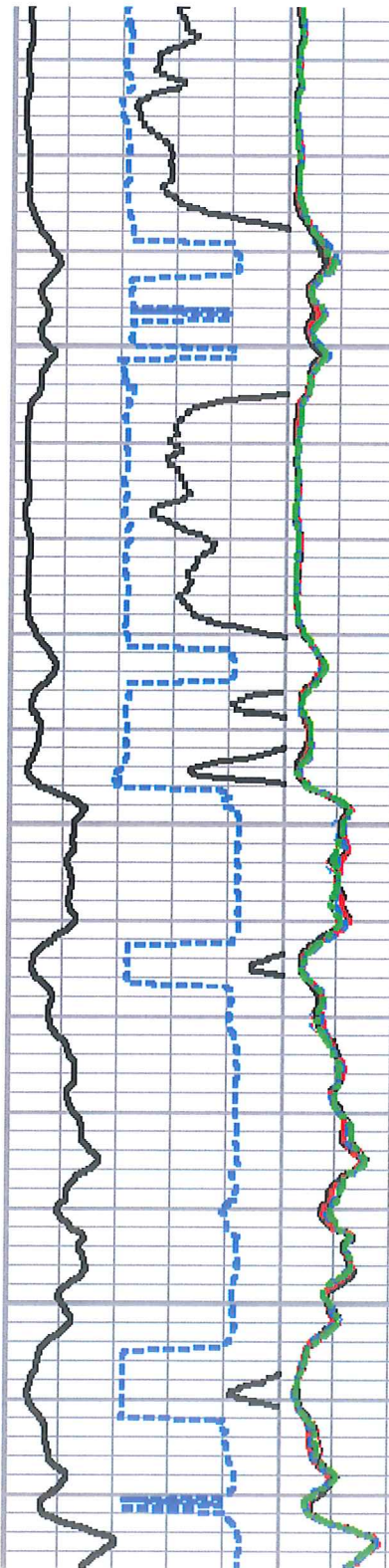




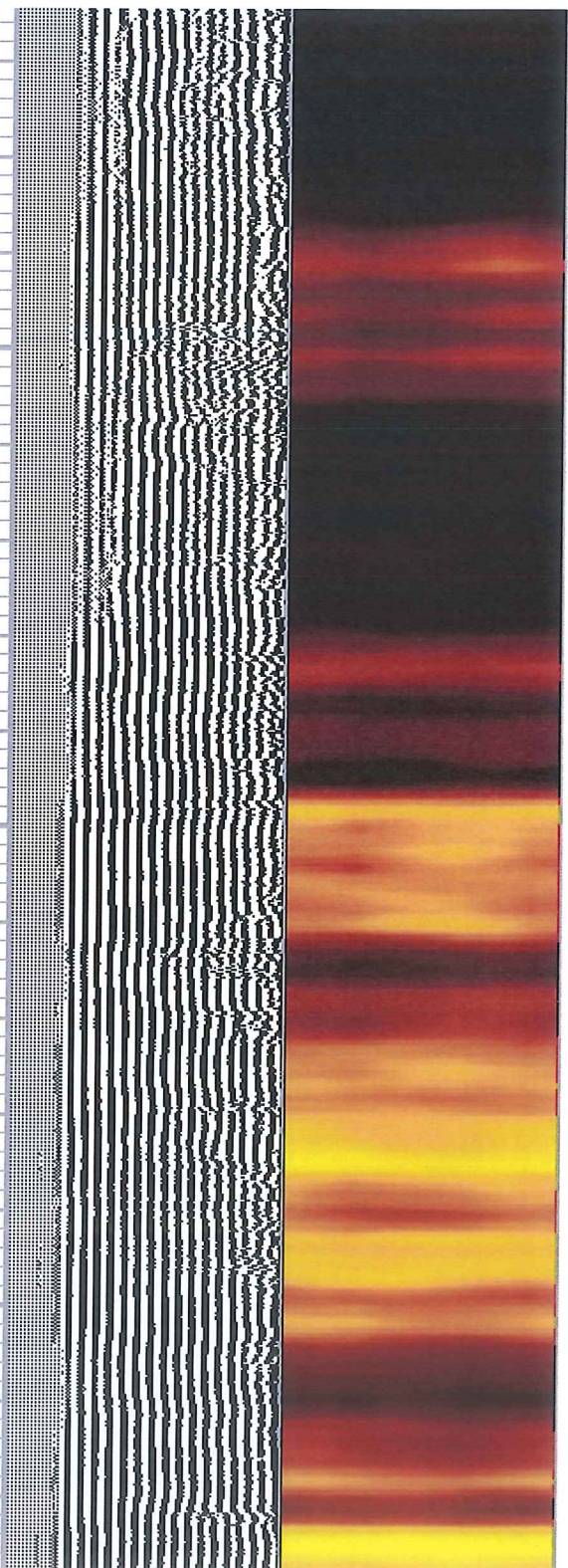
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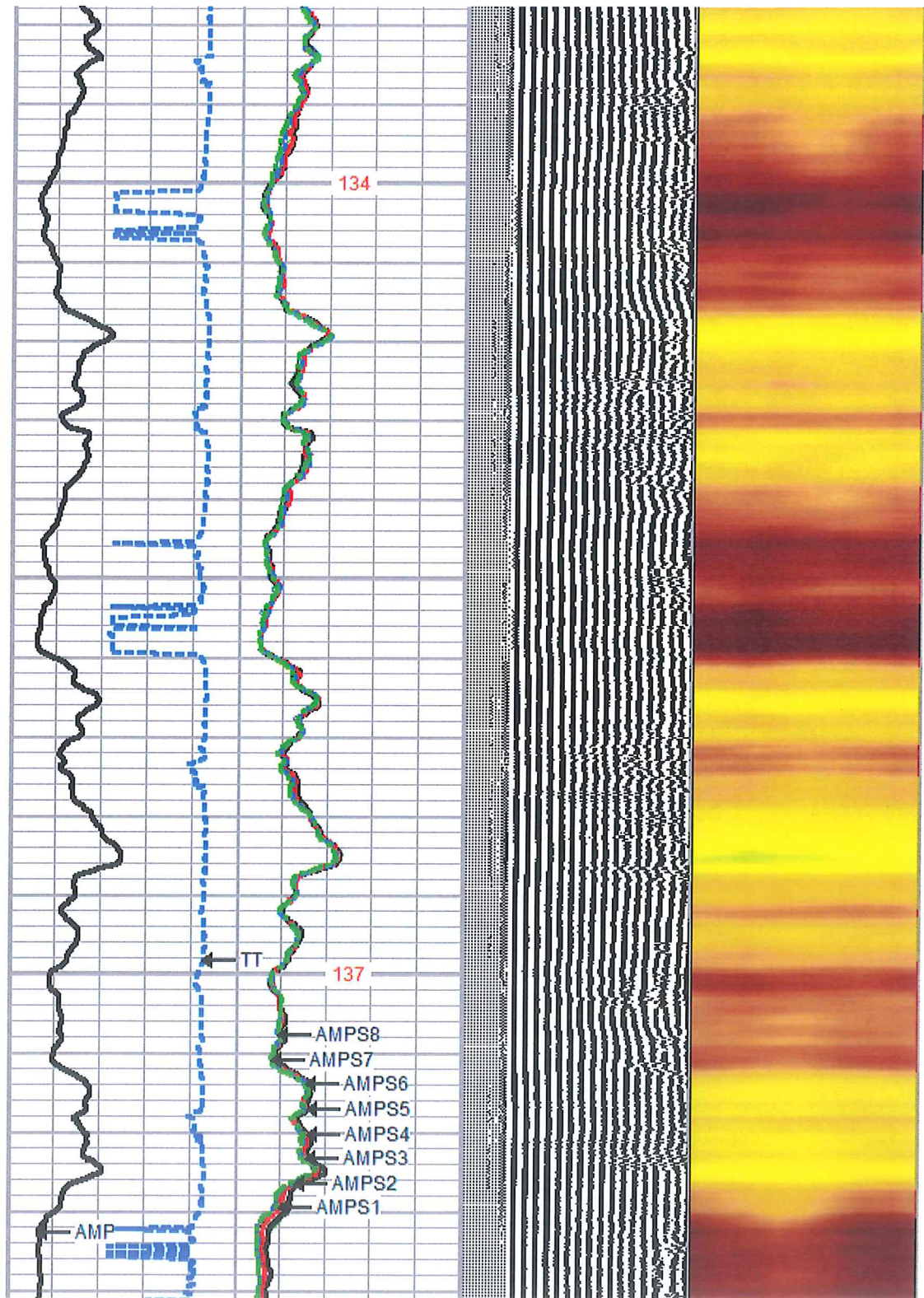
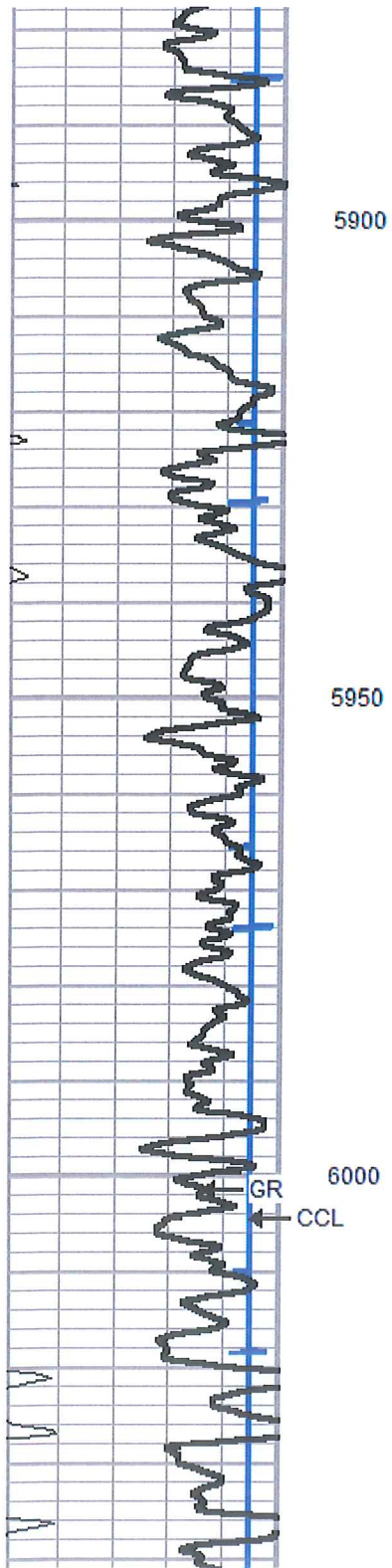
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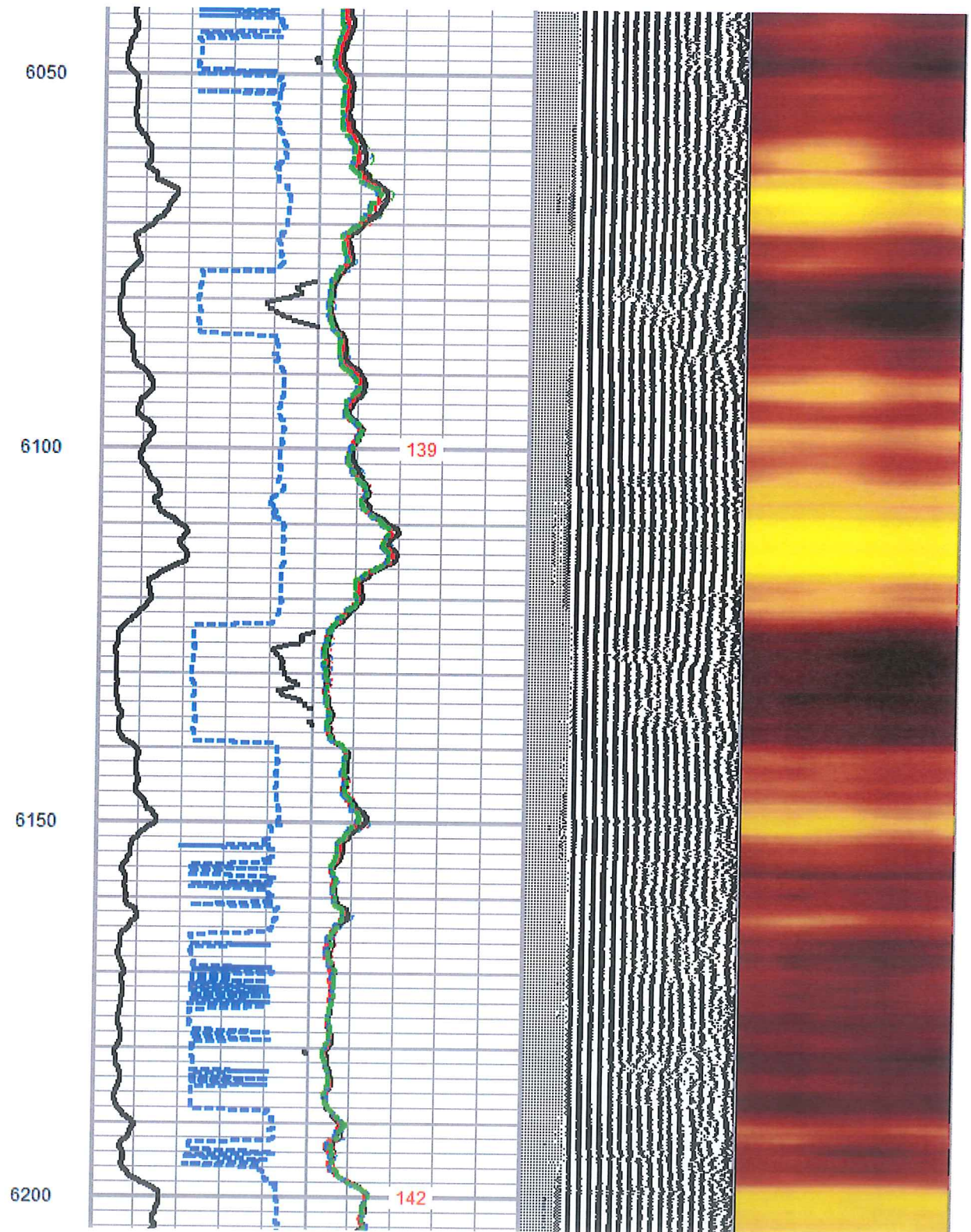
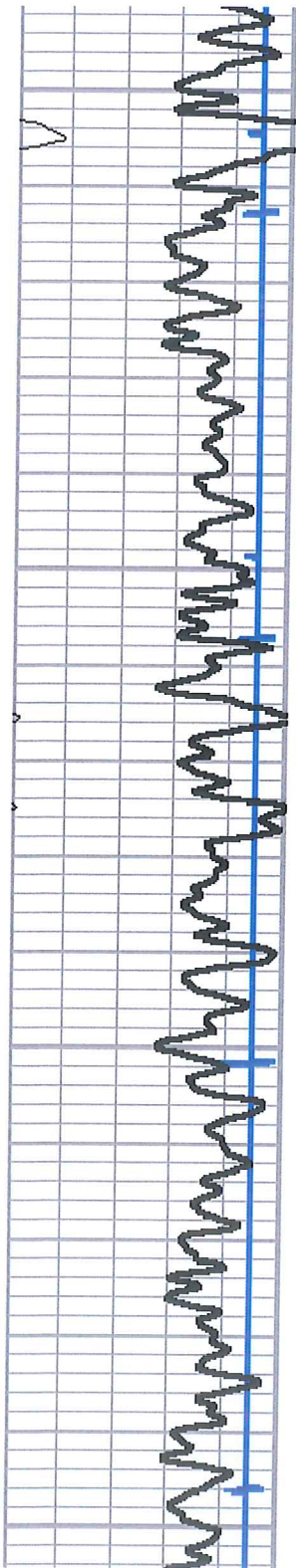
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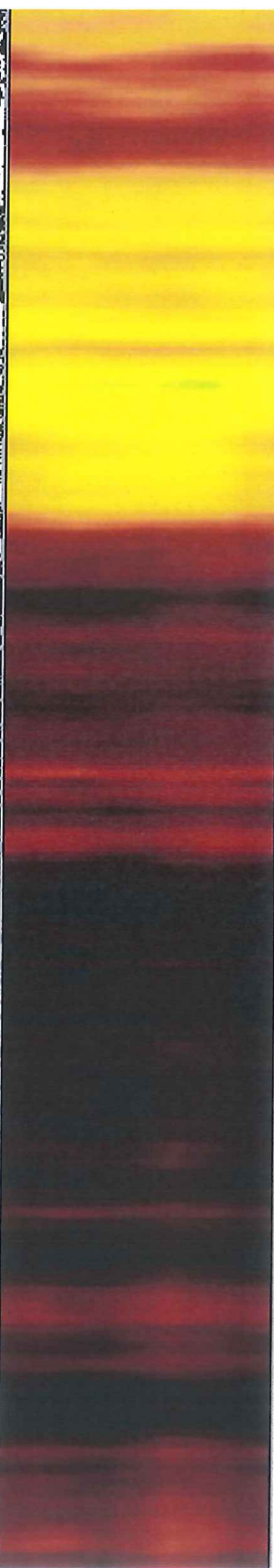
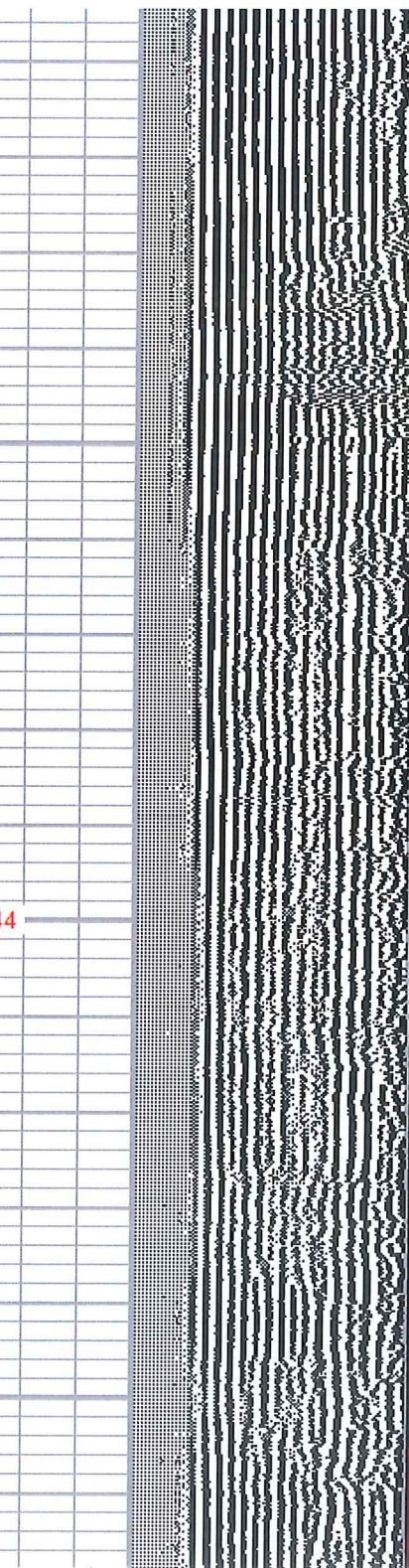
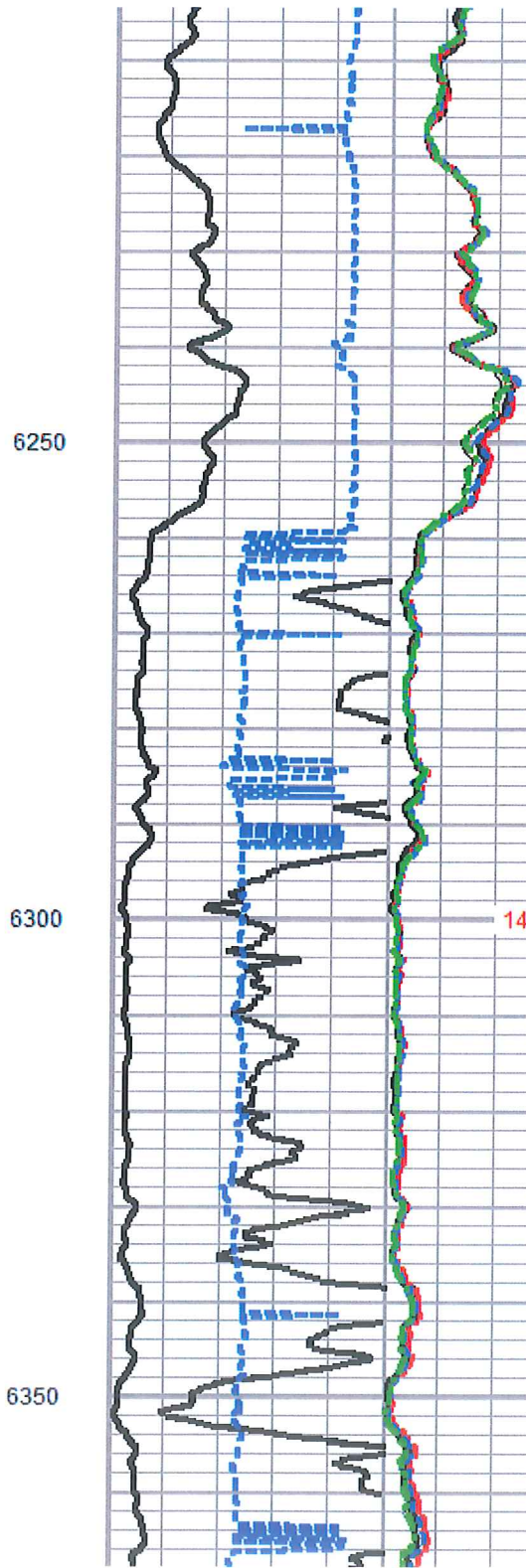
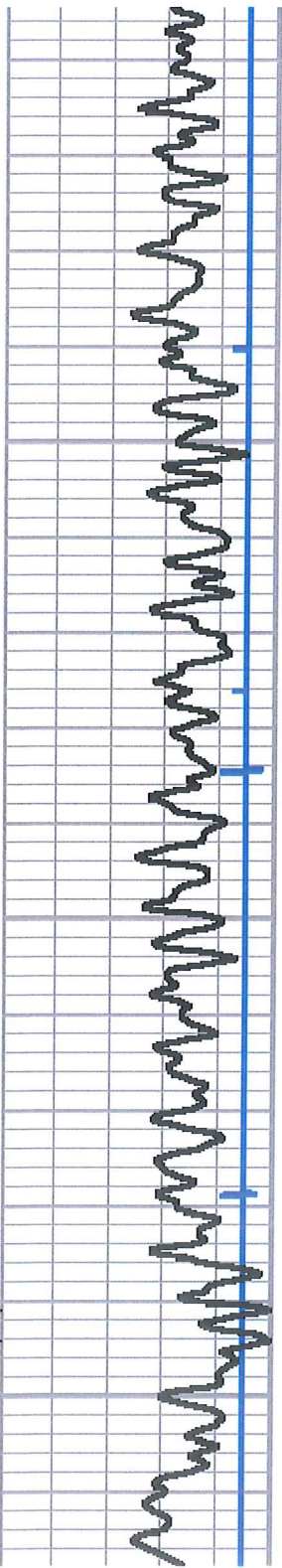


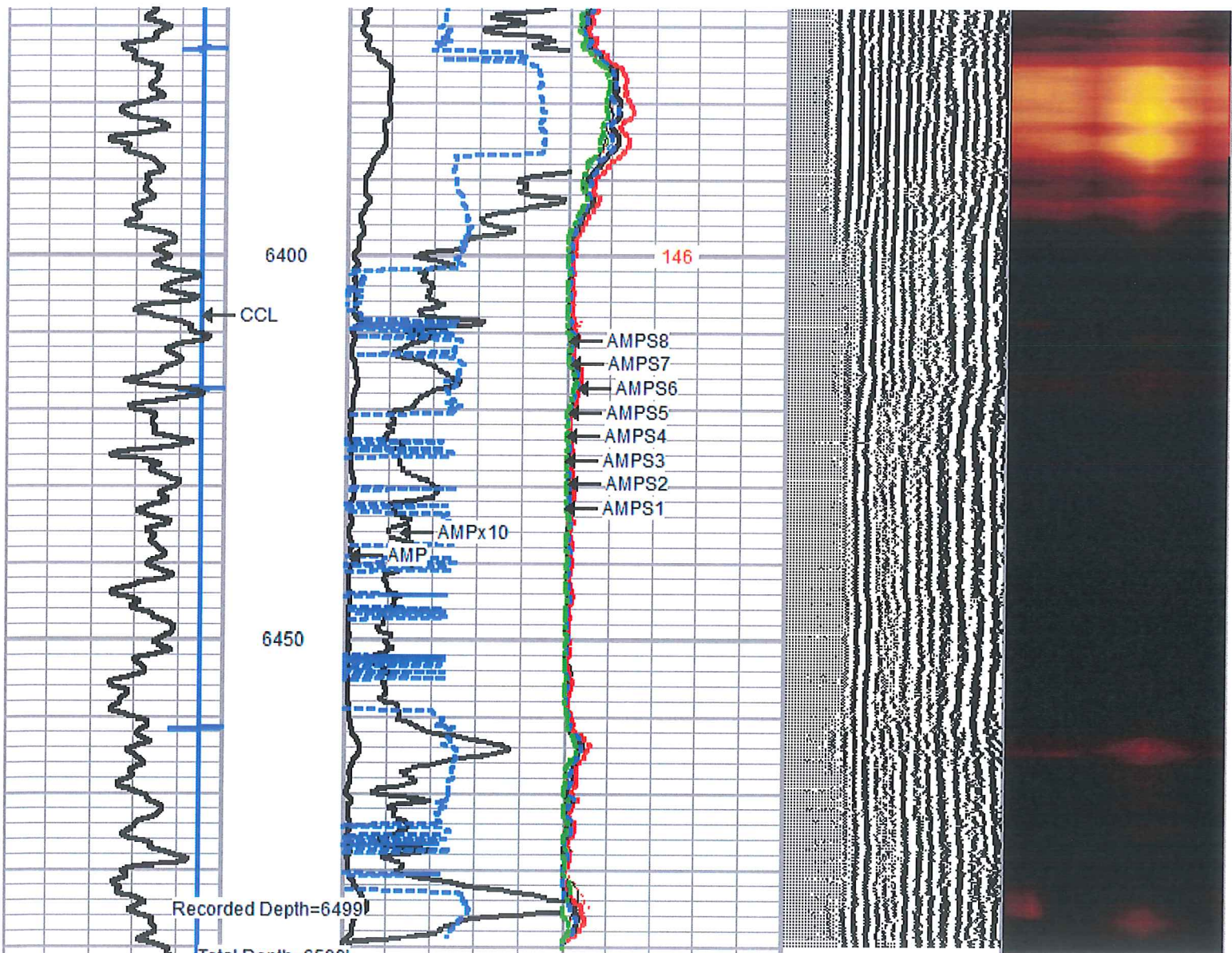
132











-9	CCL	1
0	GR (GAPI)	200
200	GR (GAPI)	400

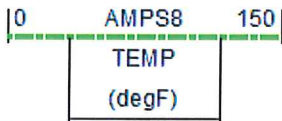
0	AMP (mV)	100
0	AMPx10 (mV)	10
350	TT (usec)	250

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

200	VDL	1200
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1	Cement Map	8
3		95





REPEAT SECTION

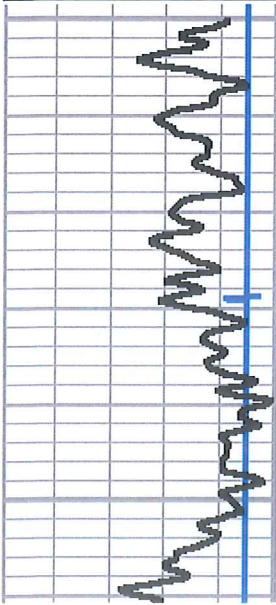
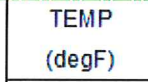
Database File: amanda 2h.db
 Dataset Pathname: pass3
 Presentation Format: scbl02
 Dataset Creation: Mon Oct 06 21:45:57 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

-9	CCL	1
0	GR (GAPI)	200
200	GR (GAPI)	400

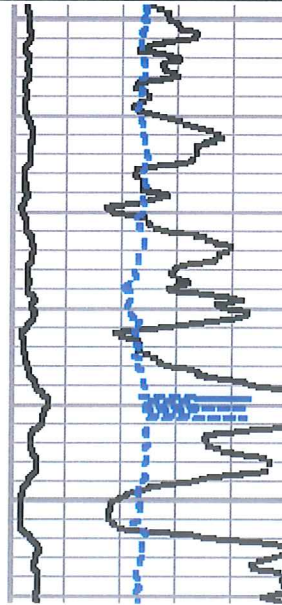
0	AMP (mV)	100
0	AMPx10 (mV)	10
350	TT (usec)	250

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

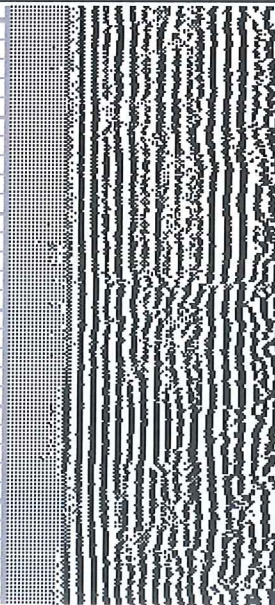
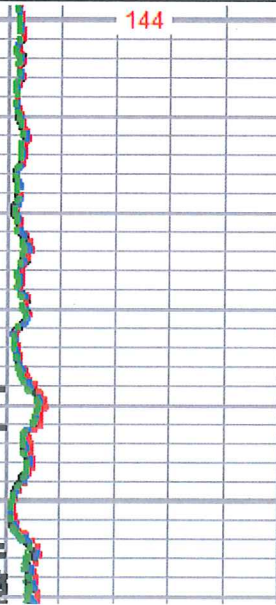


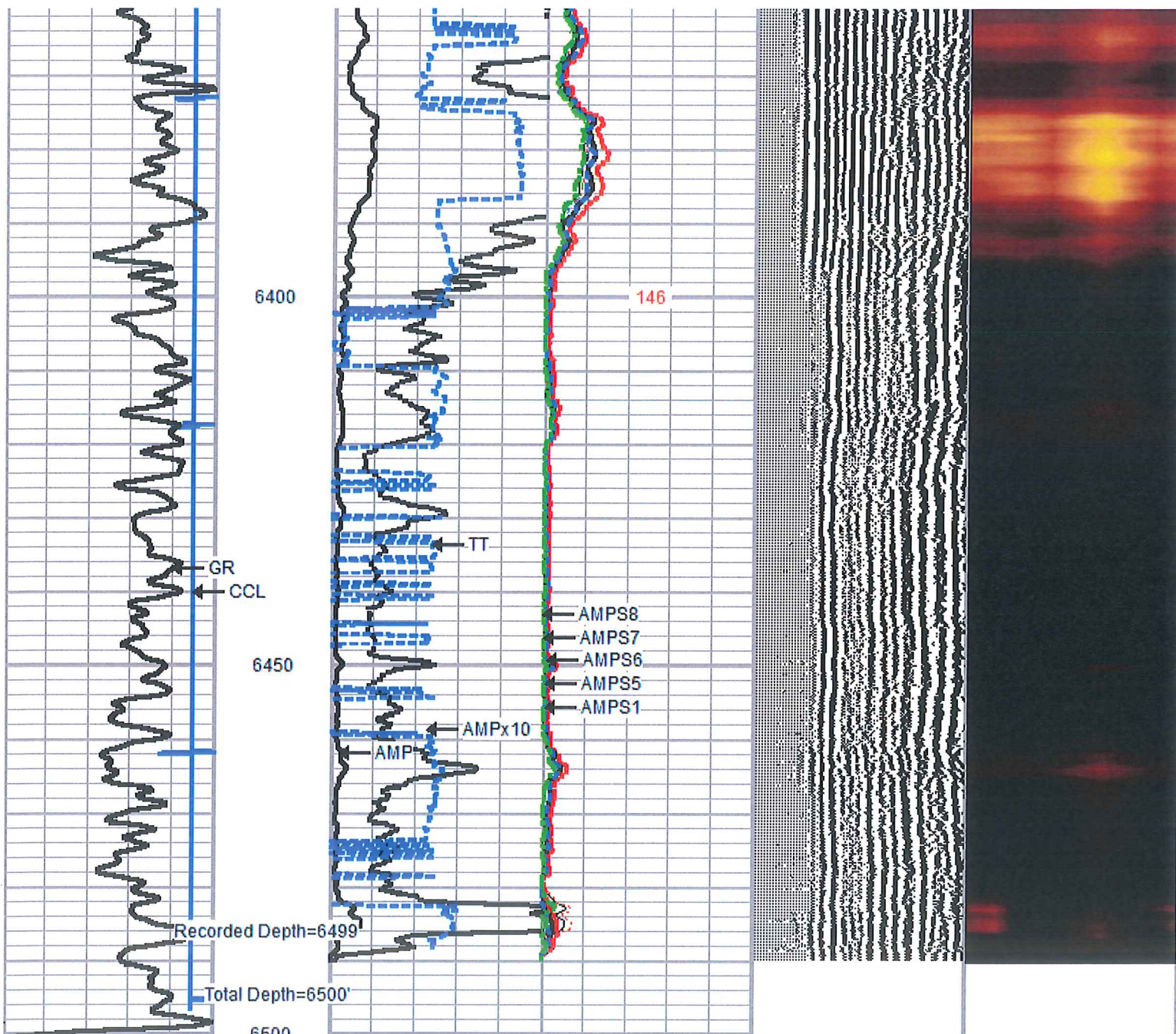
6300



144

6350





Recorded Depth=6499'
 Total Depth=6500'

-9	CCL	1
0	GR (GAPI)	200
200	GR (GAPI)	400

0	AMP (mV)	100	0	AMPS1	150
0	AMPx10 (mV)	10	0	AMPS2	150
350	TT (usec)	250	0	AMPS3	150
			0	AMPS4	150
			0	AMPS5	150
			0	AMPS6	150

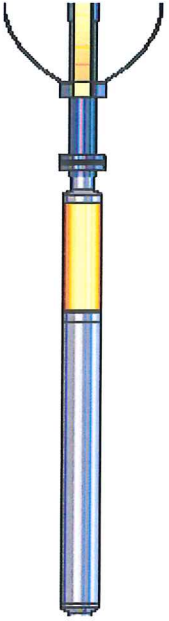
200 VDL 1200

1	Cement Map	8
3		95



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		RBT-Probe275T (FW1404-41_5.5INCH) Probe 2.75" Radial with Integral Temperature Sub	9.39	2.75	100.00
WVFS3FT	11.68					
WVFS1	11.68					
WVFS2	11.68					
WVFS3	11.68					
WVFS4	11.68					
WVFS5	11.68					
WVFS6	11.68					
WVFS7	11.68					
WVFS8	11.68					
WVFS5FT	10.68					
WVFCAL	7.42					

			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: amanda 2h.db: field/well/run1/pass4 Total Length: 19.70 ft Total Weight: 178.00 lb O.D.: 2.75 in						