Company NOBLE ENERGY INC.
Well MONFORT GILCREST K08-14
Field WATTENBERG
County WELD
State COLORADO

Casedhole Solutions

GAMMA RAY CCL SECTOR BOND VDL

Company NOBLE ENERGY INC.
Well MONFORT GILCREST K08-14
Field WATTENBERG
County WELD State COLORADO

Location: API #: 0512311124
SE/SW
SEC 8 TWP 4N RGE 66W

Other Services

Permanent Datum	GL	Elevation 4711	Elevation
Log Measured From	KB		K.B. 4713
Drilling Measured From	KB		D.F.
			G.L. 4711

Date	JANUARY 19, 2018
Run Number	ONE
Depth Driller	7410
Depth Logger	6000
Bottom Logged Interval	6000
Top Log Interval	SURFACE
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	TEC RIG
Time Logger on Bottom	14:30
Equipment Number	922338
Location	FORT LUPTON
Recorded By	GREG NOLAN
Witnessed By	CODY JONES

Borehole Record				Tubing Record		
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8	24#	12	415
Prot. String				
Production String	4-1/2	11.6#	12	7410
Liner				

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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.

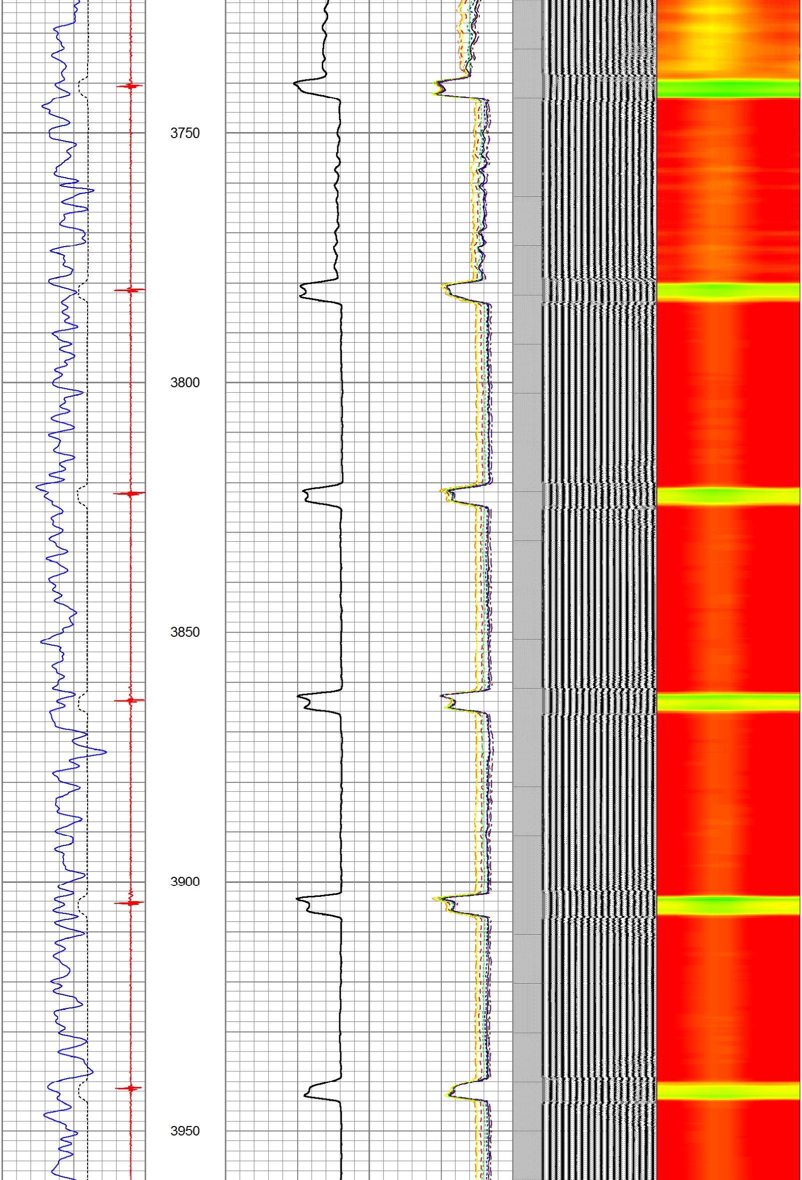
Comments

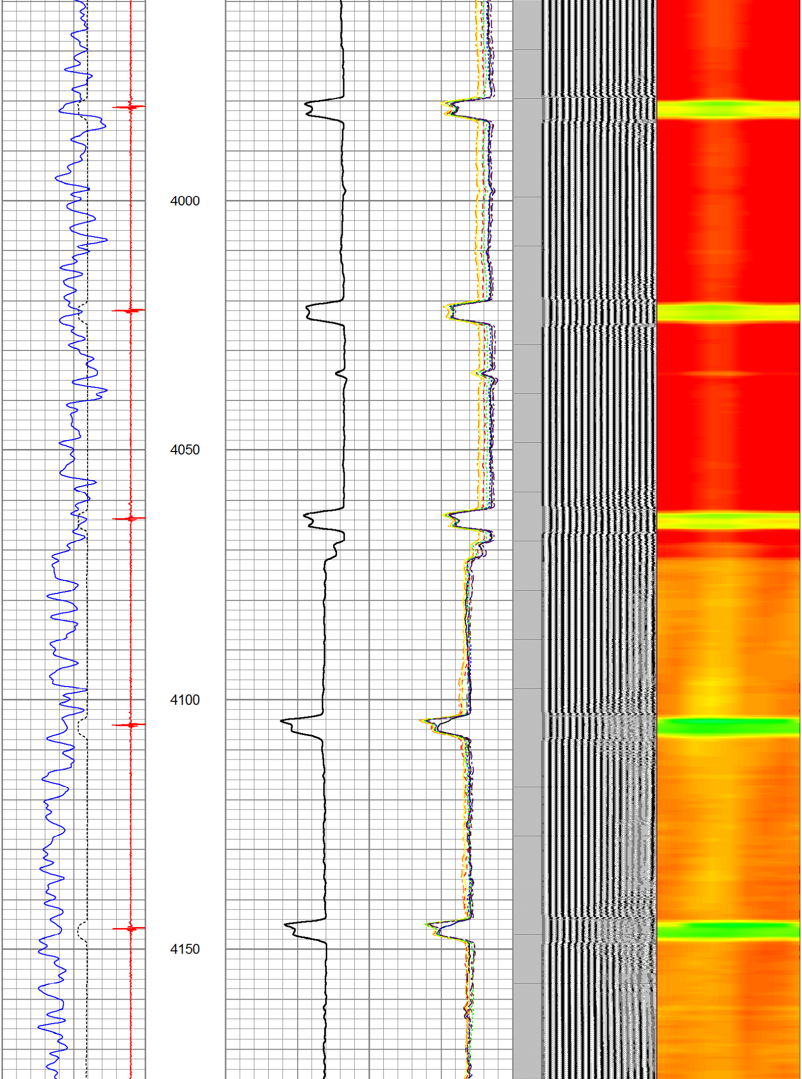
THANK YOU FOR CHOOSING CHS!!!!
LOG NOT CORRELATED

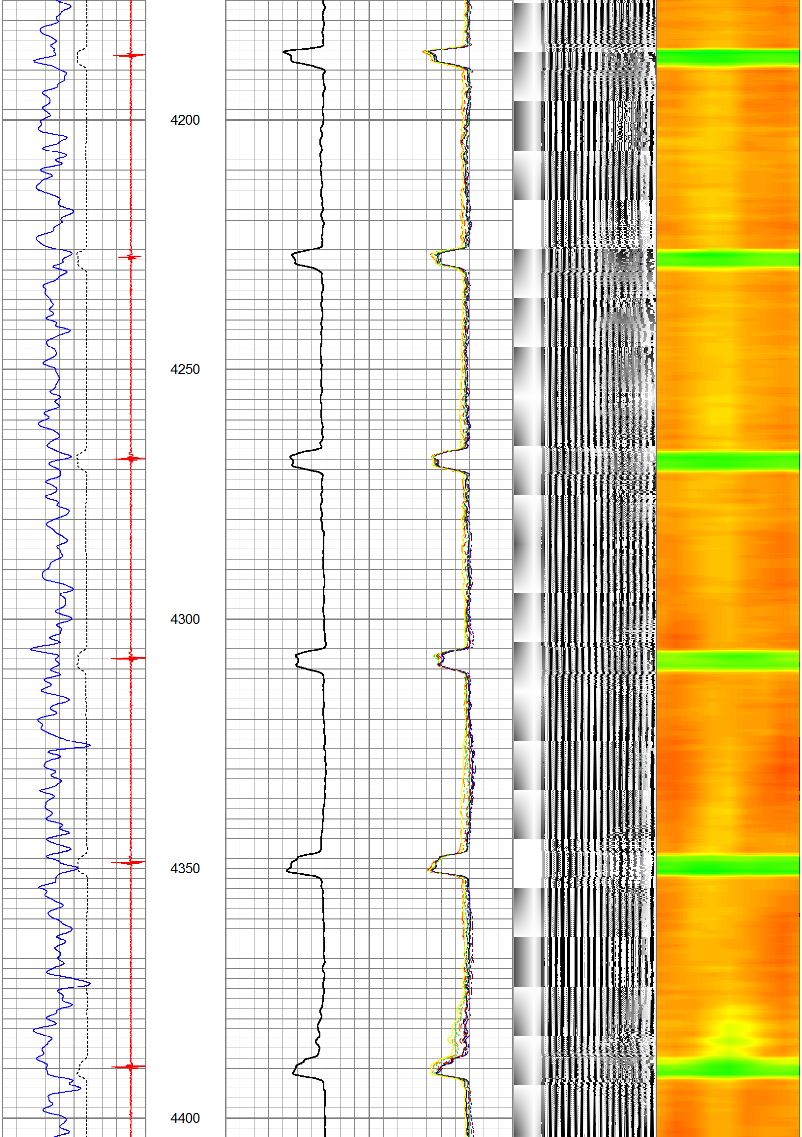
Database File: cbl noble monfort gilcrest k8-14.db
Dataset Pathname: pass3
Presentation Format: zwag
Dataset Creation: Fri Jan 19 15:08:23 2018 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

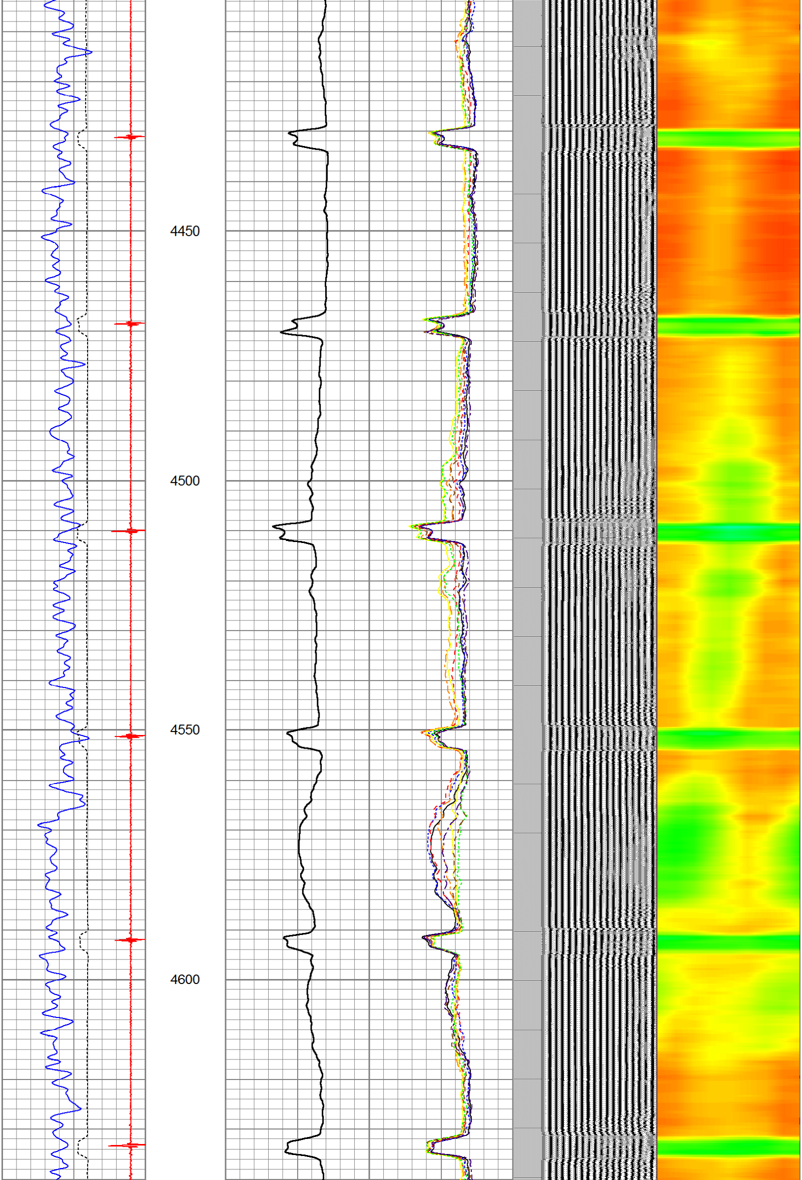
50 CCL -5.5	0 AMP (mV) 100	0 AMPS1 100
0 GR (GAPI) 150	AMPLIFIED AMP3	0 AMPS2 100
340 TT3 (usec) 240	0 (mV) 20	0 AMPS3 100
		0 AMPS4 100
		0 AMPS5 100
		0 AMPS6 100
		0 AMPS7 100
		0 AMPS8 100

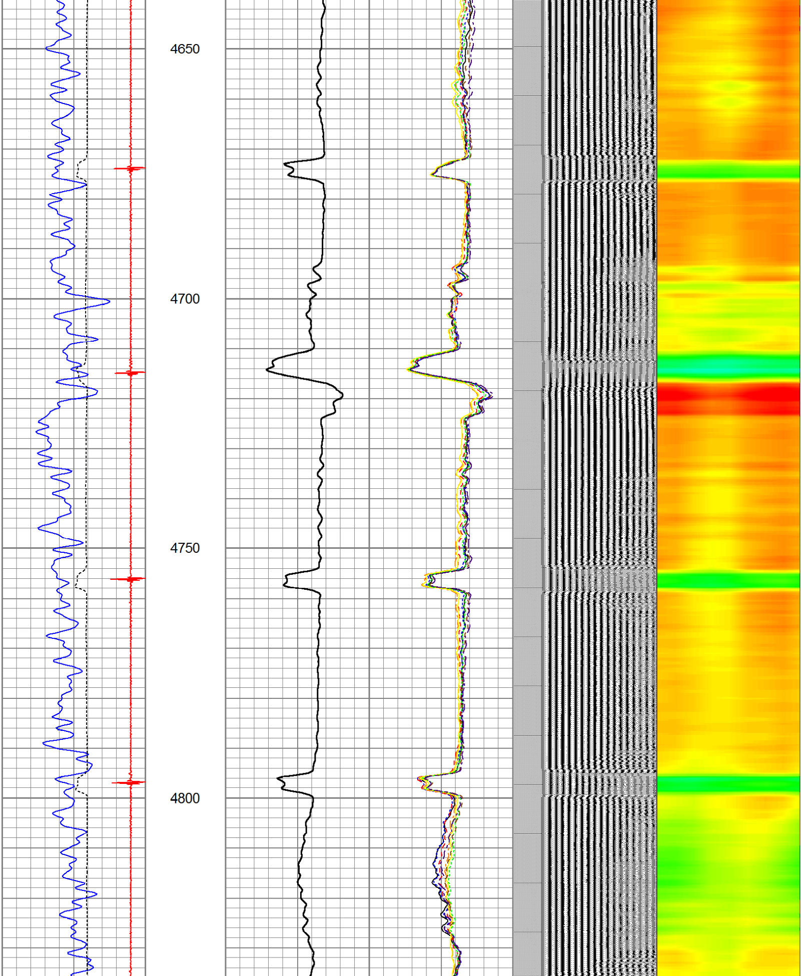
200 VDL 1200
1 RADIAL MAP 8
80 1

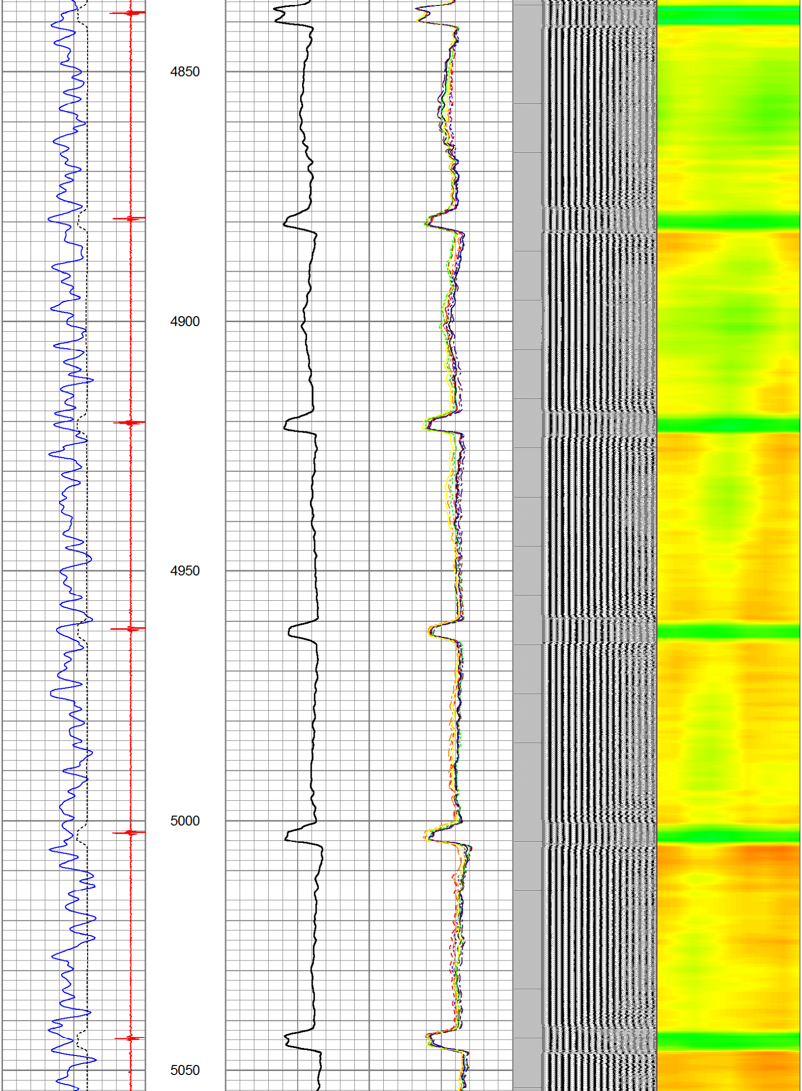


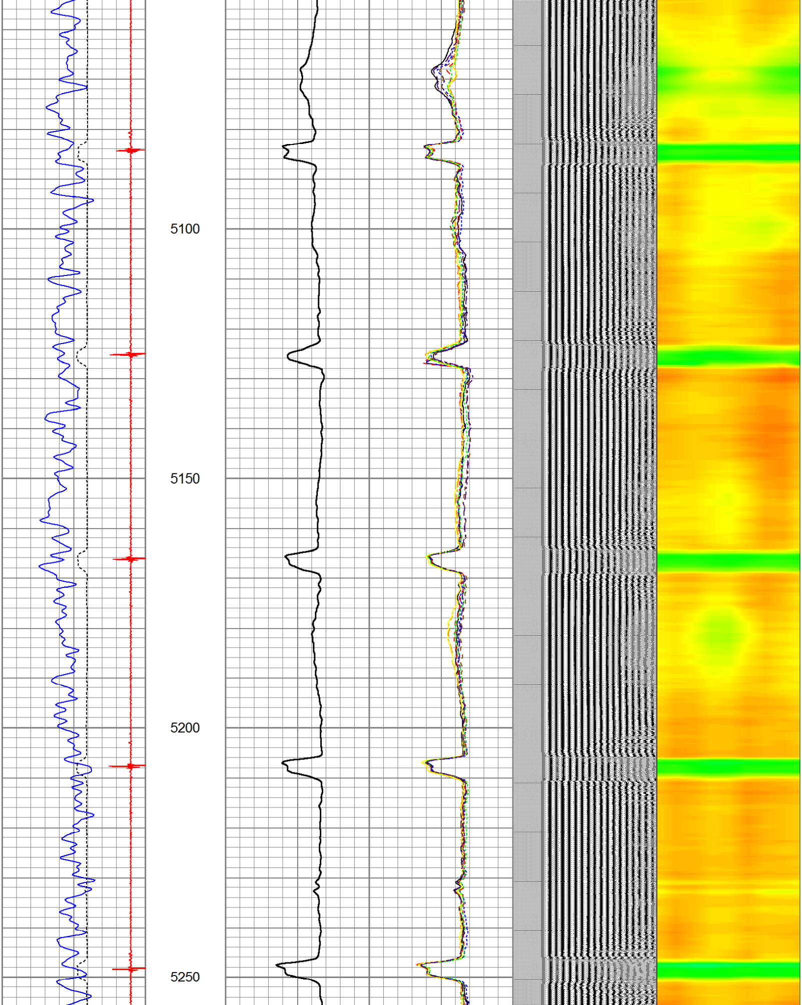


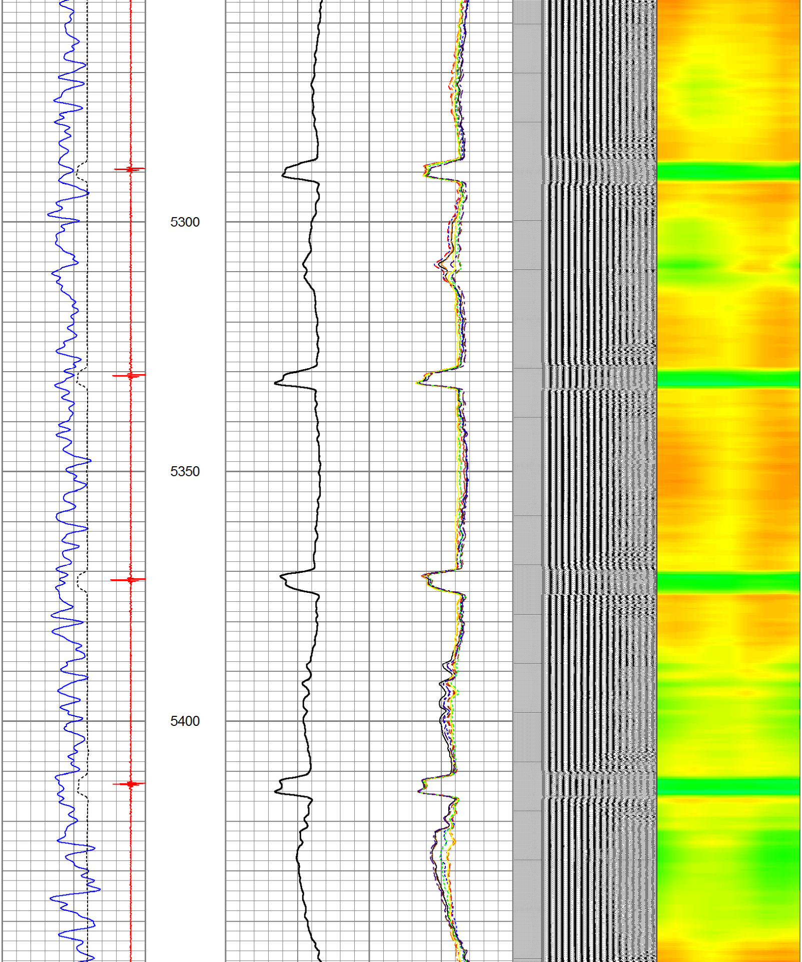


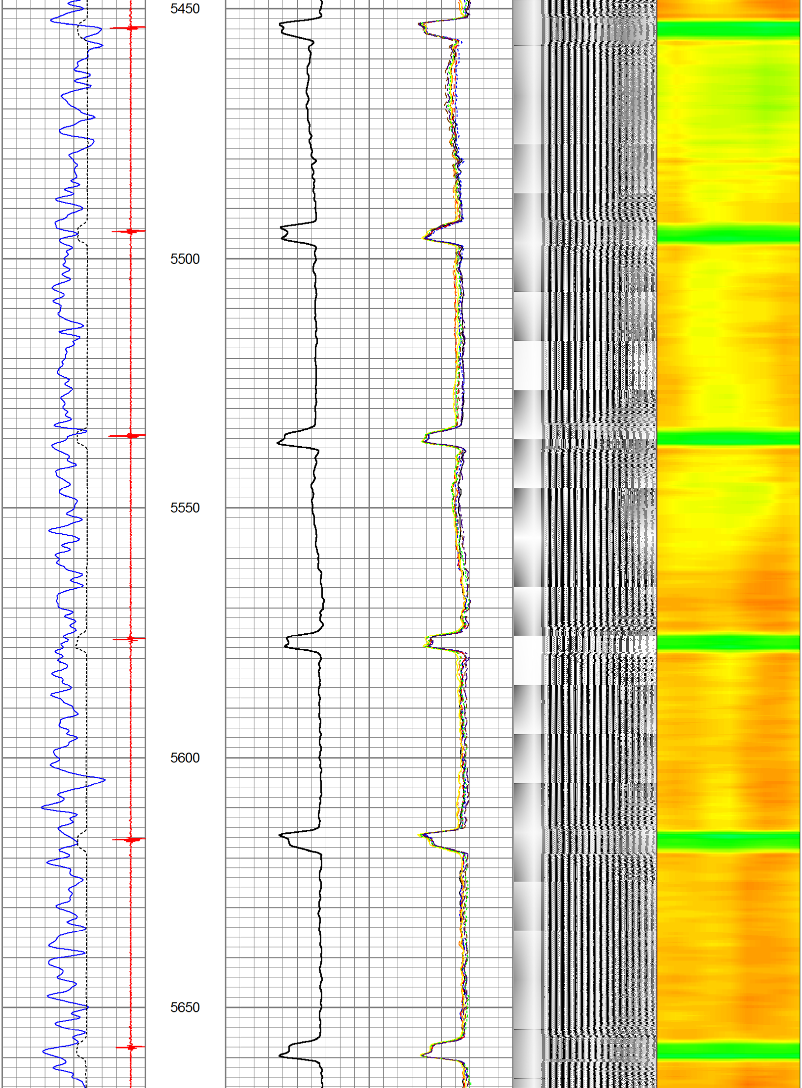


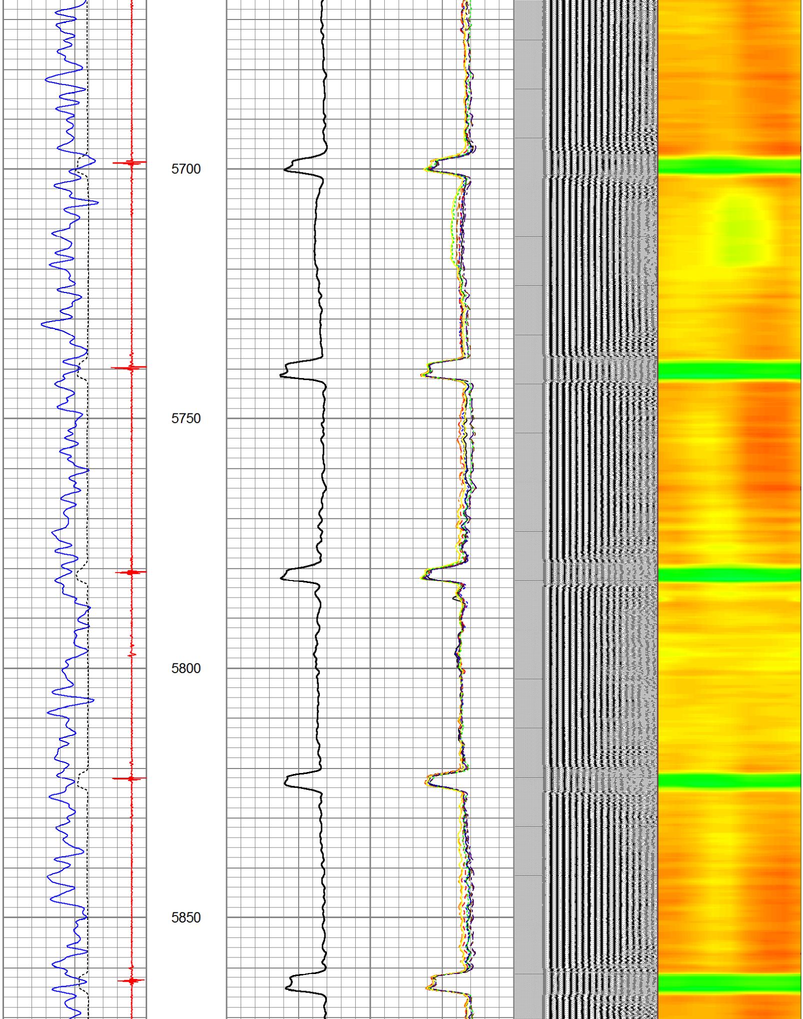


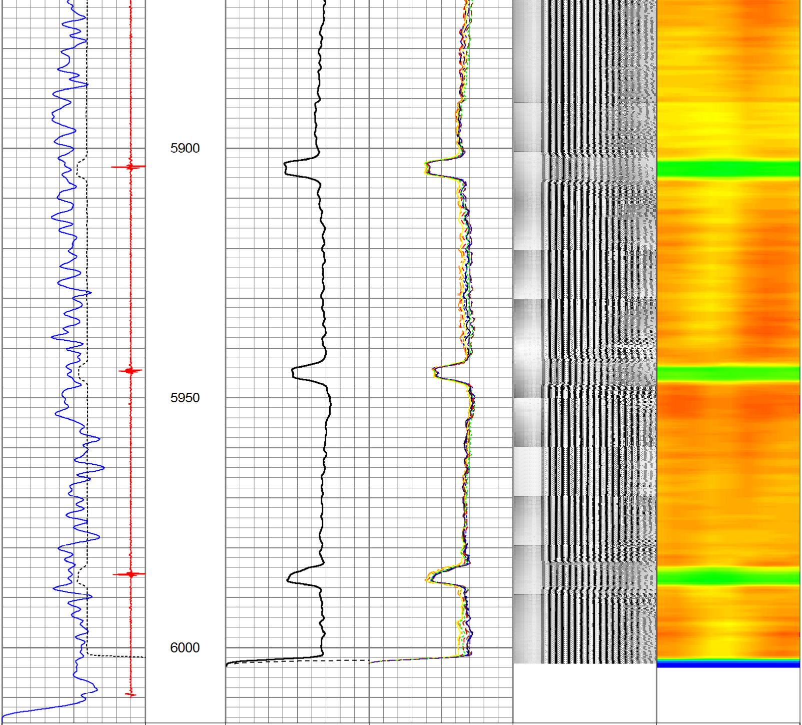












50 CCL -5.5	0 AMP (mV) 100	0 AMPS1 100	200 VDL 1200	1 RADIAL MAP 8
0 GR (GAPI) 150	AMPLIFIED AMP3	0 AMPS2 100		80 1
340 TT3 (usec) 240	0 (mV) 20	0 AMPS3 100		
		0 AMPS4 100		
		0 AMPS5 100		
		0 AMPS6 100		
		0 AMPS7 100		
		0 AMPS8 100		

Calibration Report

Database File: cbl noble monfort gilcrest k8-14.db
Dataset Pathname: pass3
Dataset Creation: Fri Jan 19 15:08:23 2018 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION

Thu Oct 26 10:51:22 2017

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.5500			GAPI/cps

PRIMARY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number:	101020	
Tool Model:	Probe	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	555.725	ft

Master Calibration, performed Fri Jan 19 14:51:40 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	1.001	1.500	81.196	80.233	0.923
CAL	0.007	0.172				
5'	0.007	0.907	1.500	81.196	88.588	0.874
SUM						
S1	0.007	0.953	0.000	81.196	85.848	-0.609
S2	0.007	0.979	0.000	81.196	83.594	-0.607
S3	0.007	1.054	0.000	81.196	77.572	-0.559
S4	0.007	1.108	0.000	81.196	73.773	-0.539
S5	0.007	1.092	0.000	81.196	74.850	-0.545
S6	0.007	1.007	0.000	81.196	81.183	-0.592
S7	0.007	0.947	0.000	81.196	86.385	-0.620
S8	0.007	0.931	0.000	81.196	87.851	-0.631

Internal Reference Calibration, performed Fri Jan 13 14:30:16 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.172	1.000	0.000

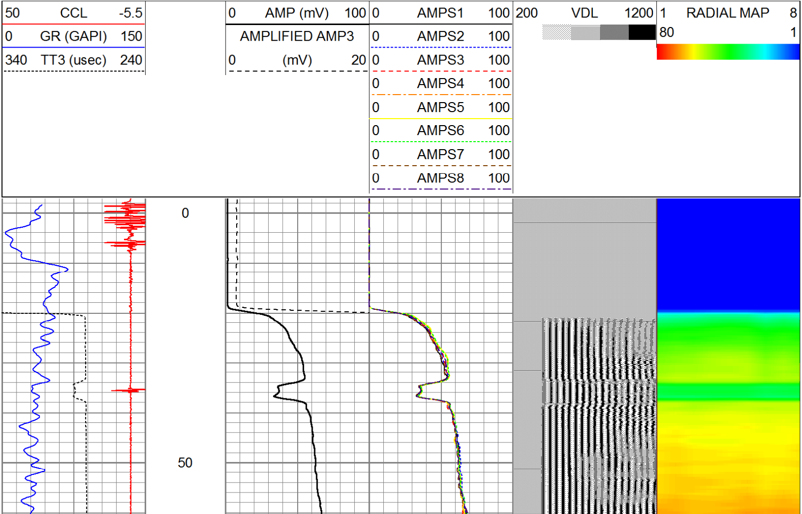
Air Zero Calibration, performed Fri Jan 19 14:39:55 2018:

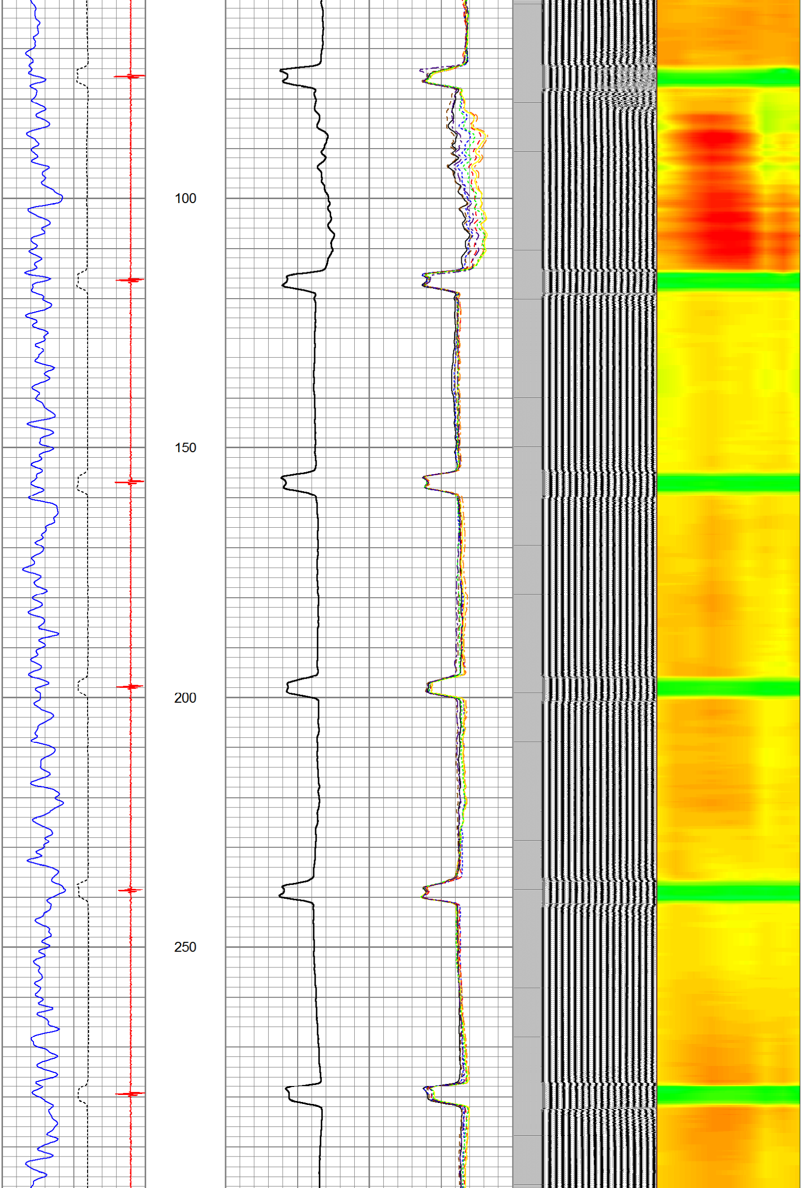
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

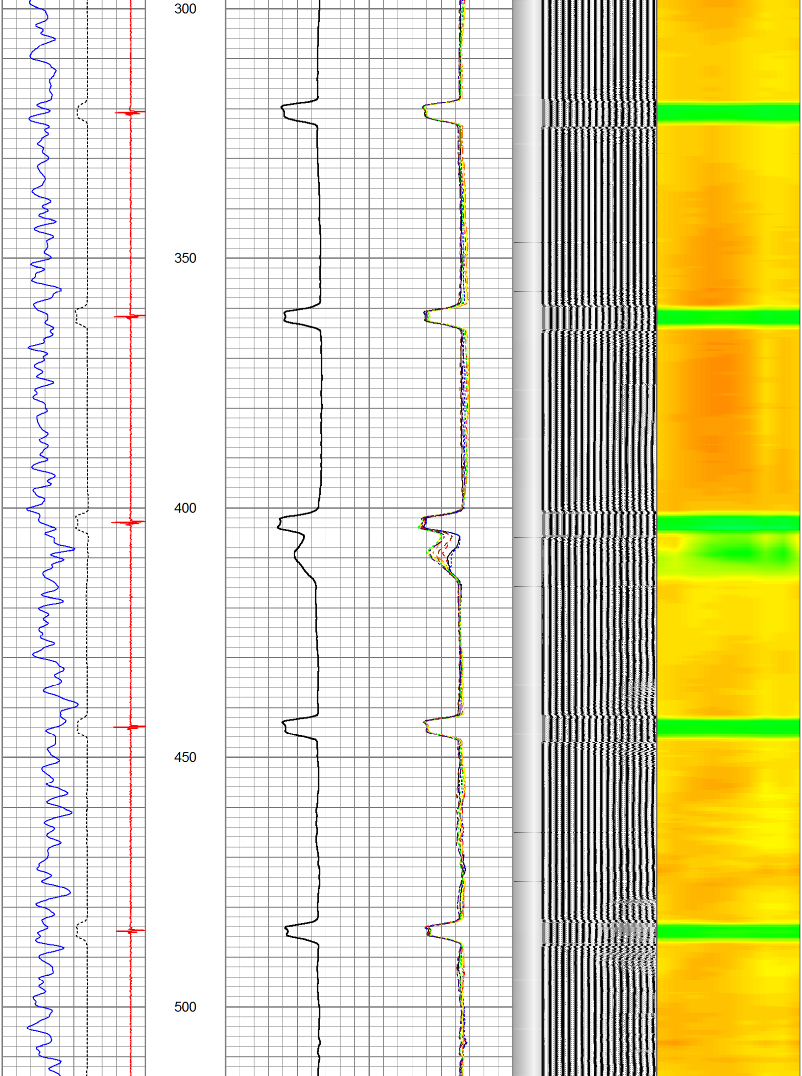
Casedhole Solutions

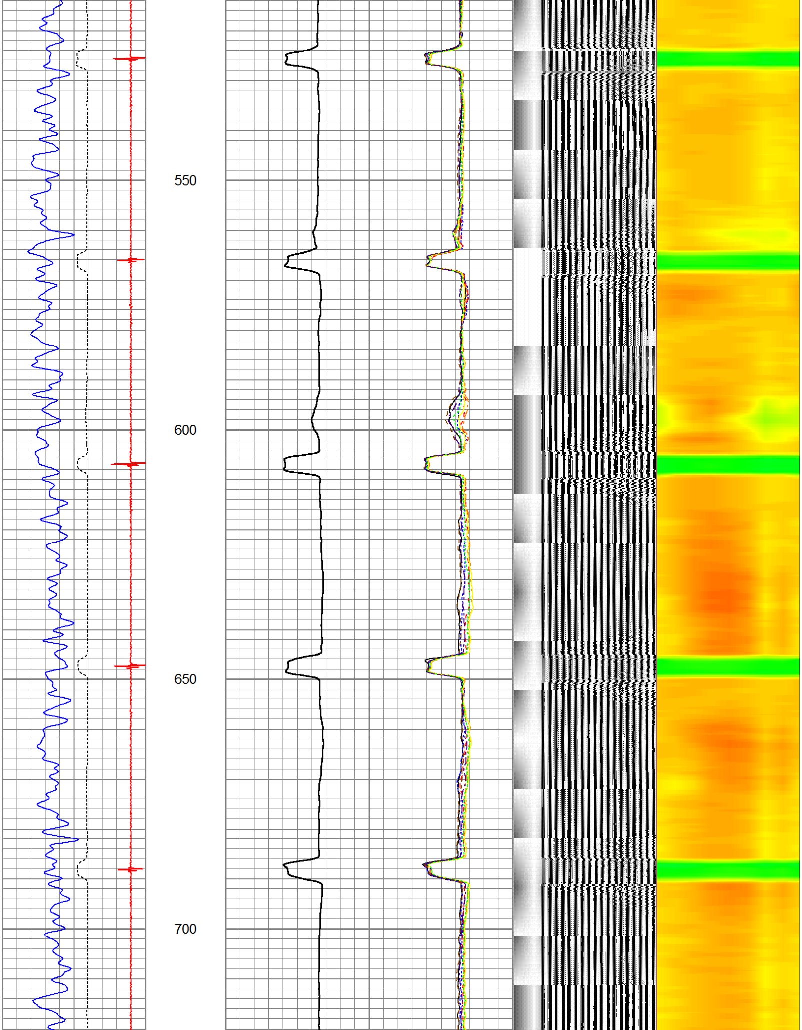
DUPLICATE LOG PASS

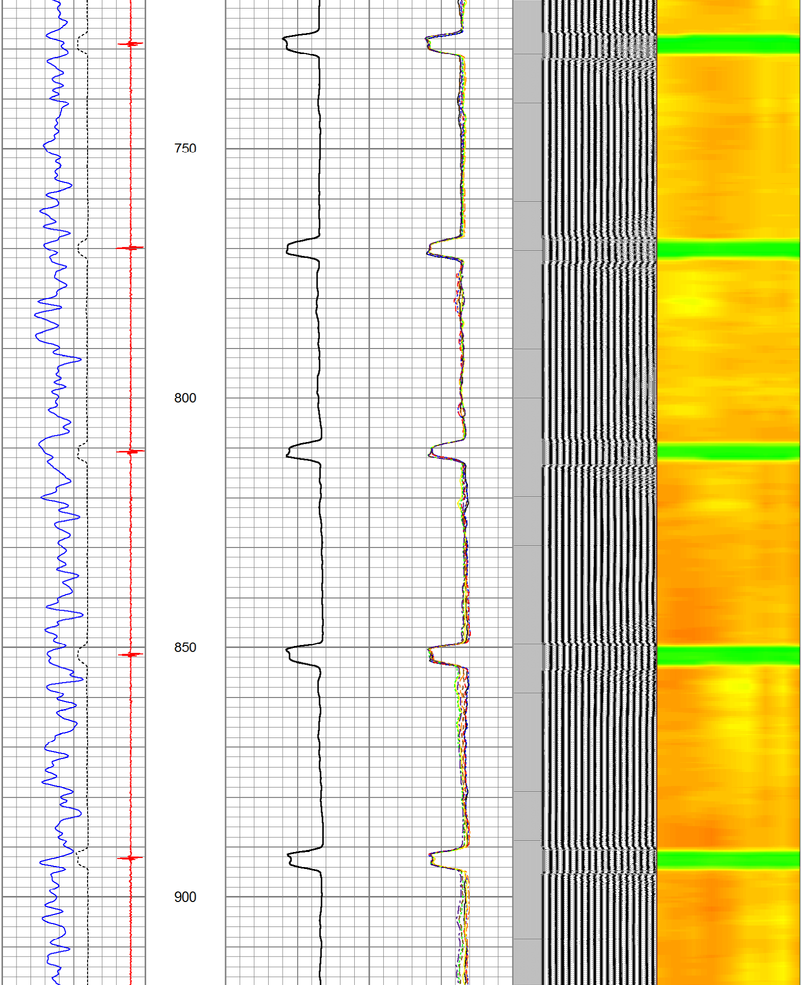
Database File:	cbl noble monfort gilcrest k8-14.db
Dataset Pathname:	pass6
Presentation Format:	zwag
Dataset Creation:	Fri Jan 19 16:28:17 2018 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

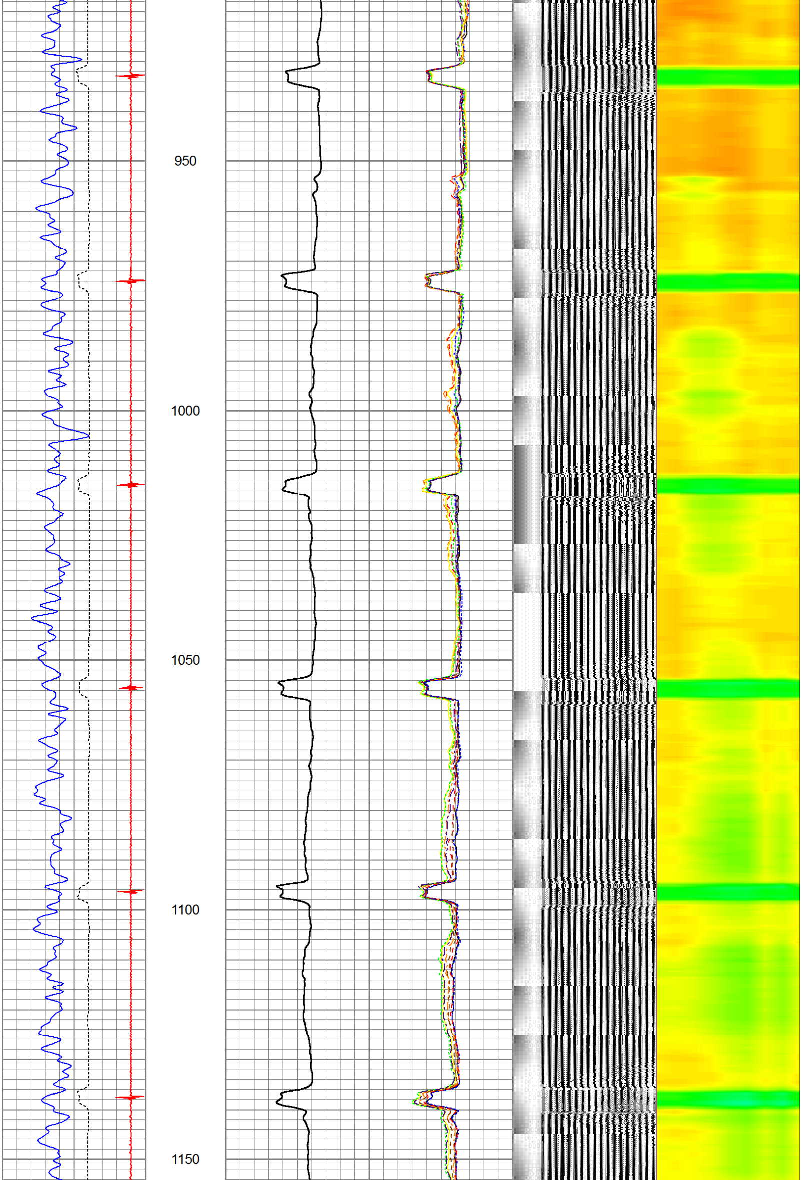


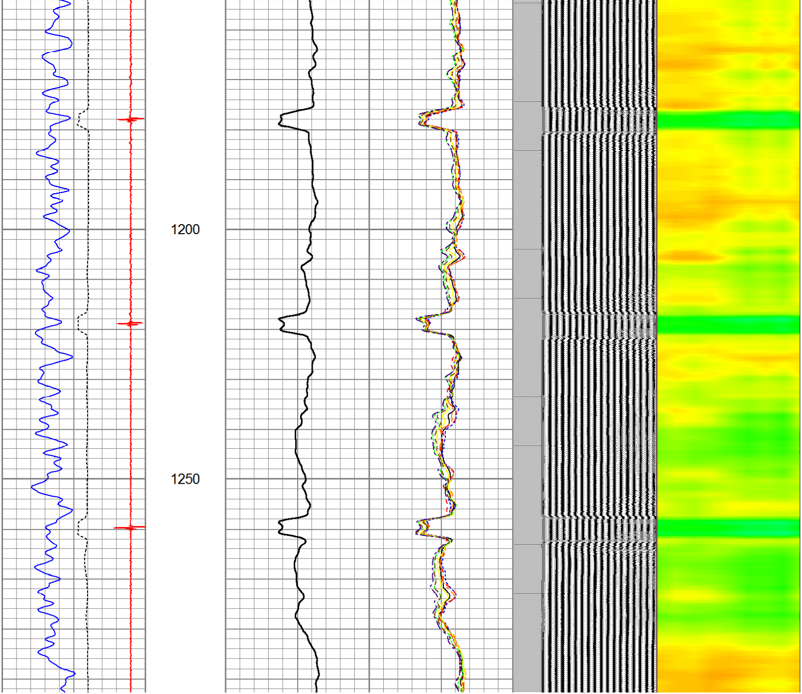


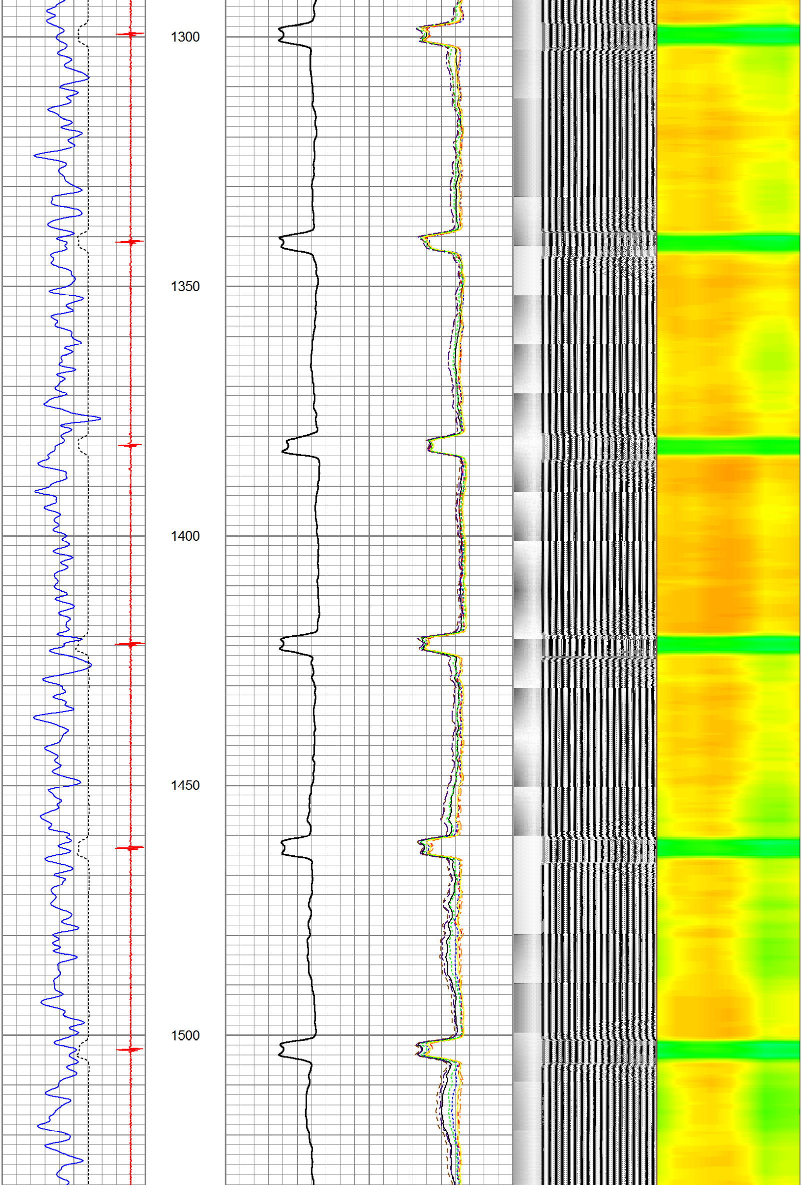








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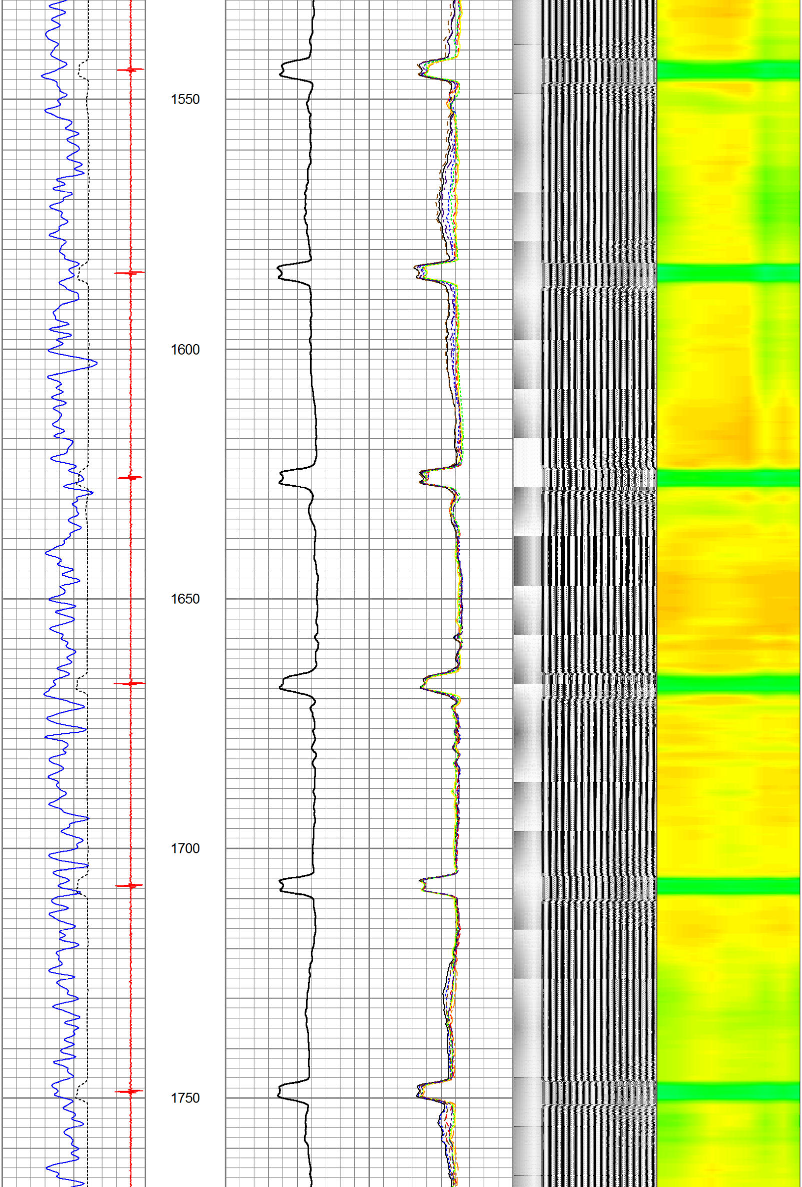
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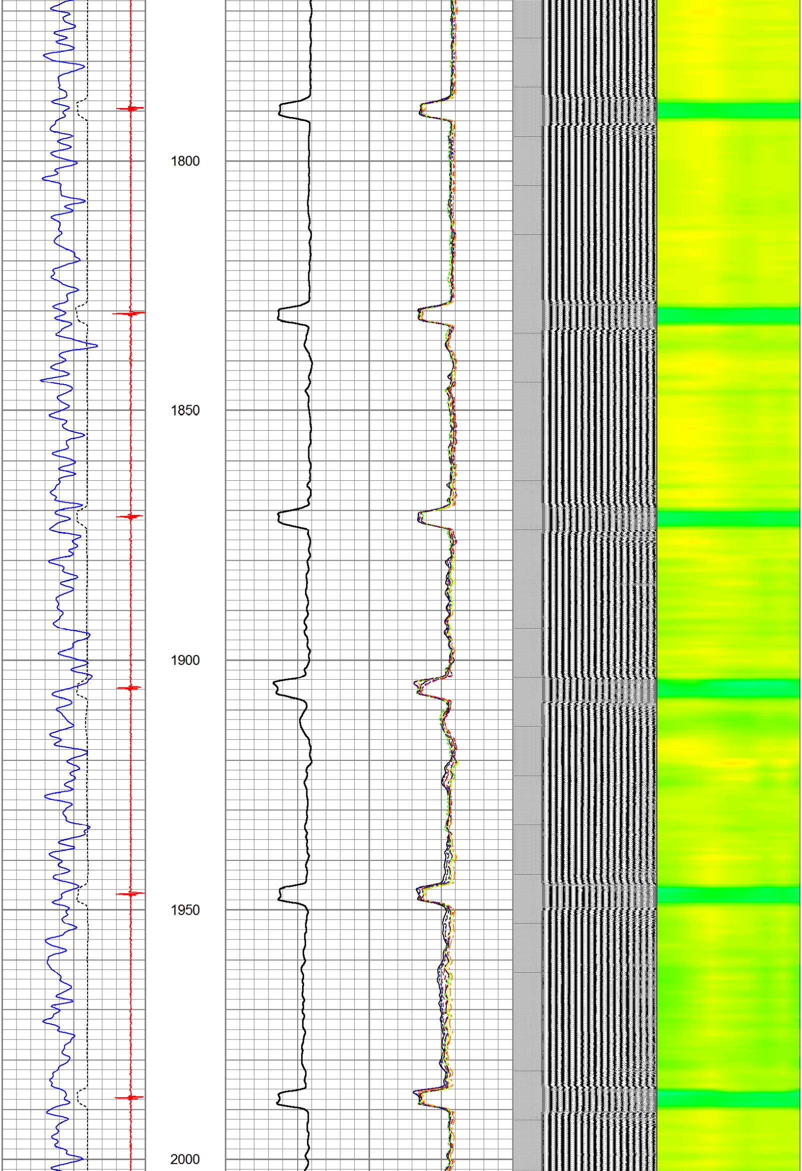
1750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1950
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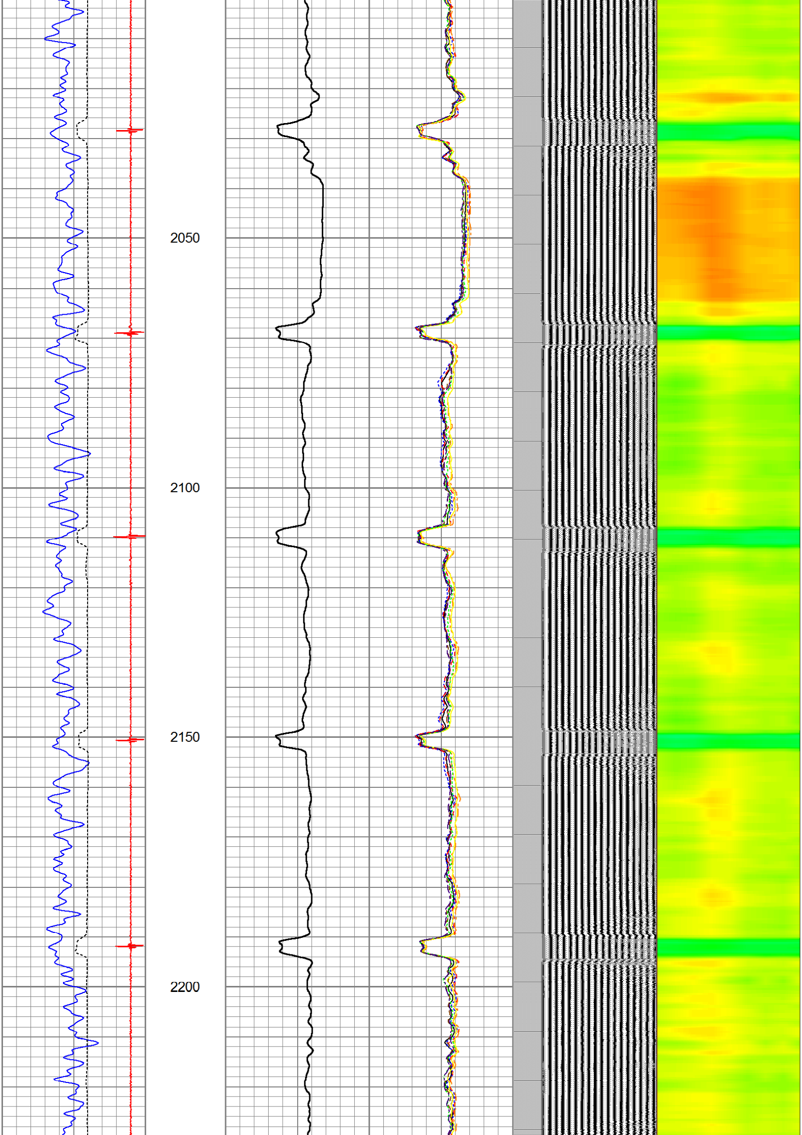
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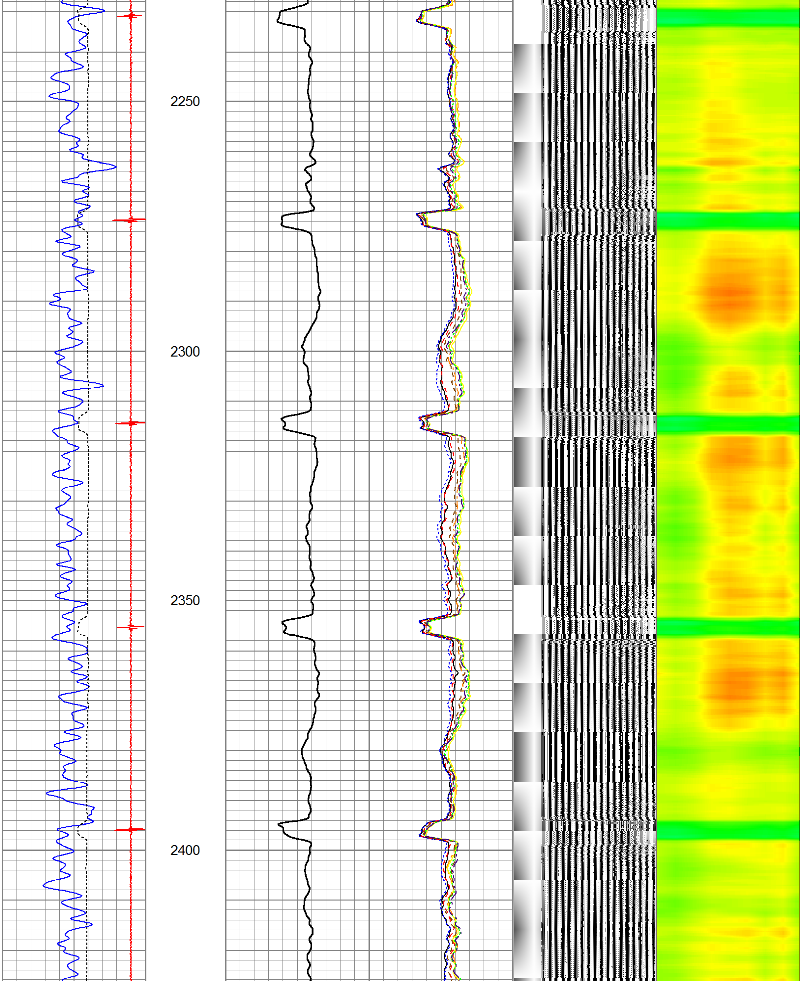
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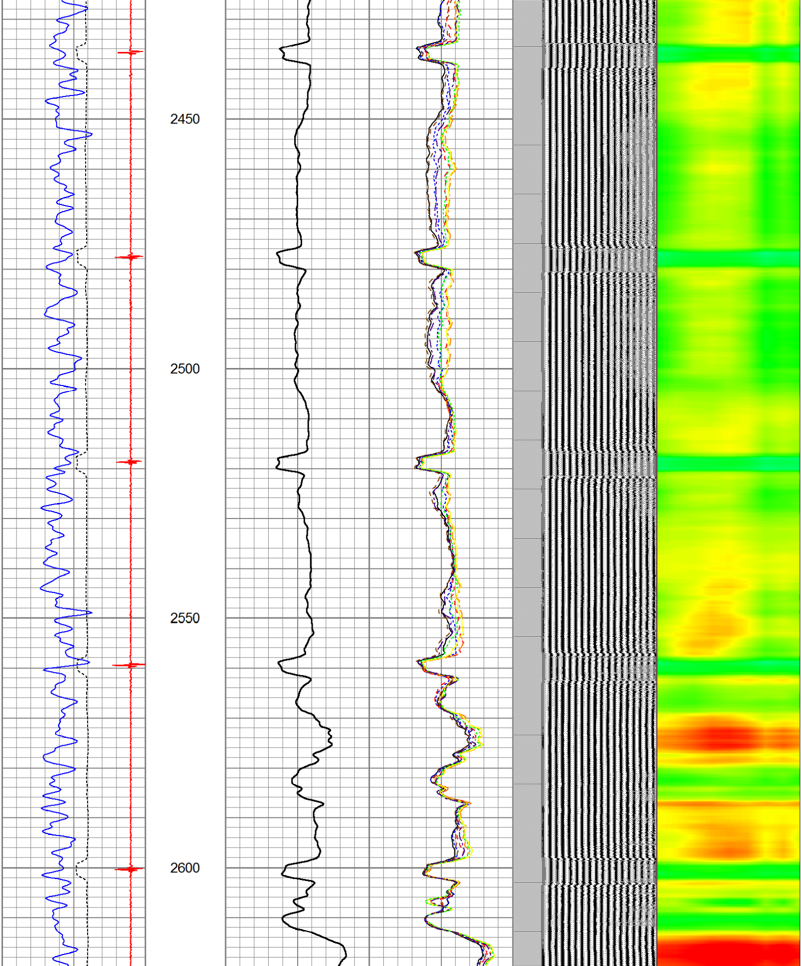
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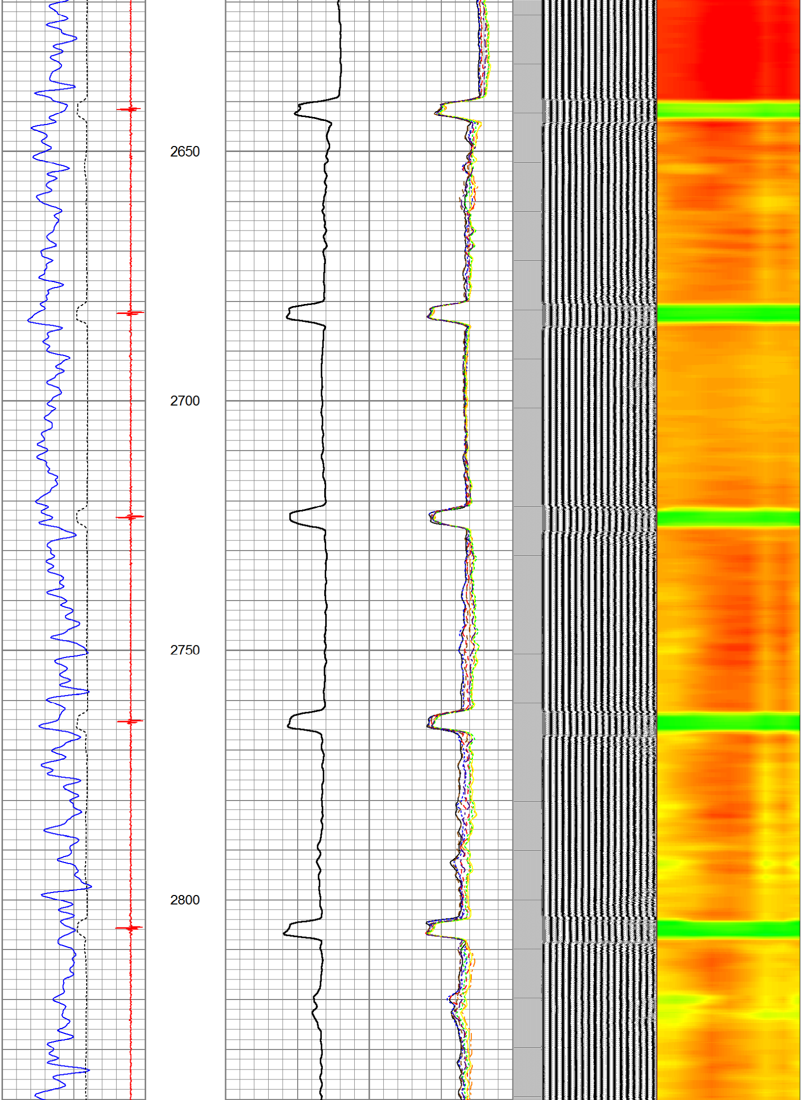
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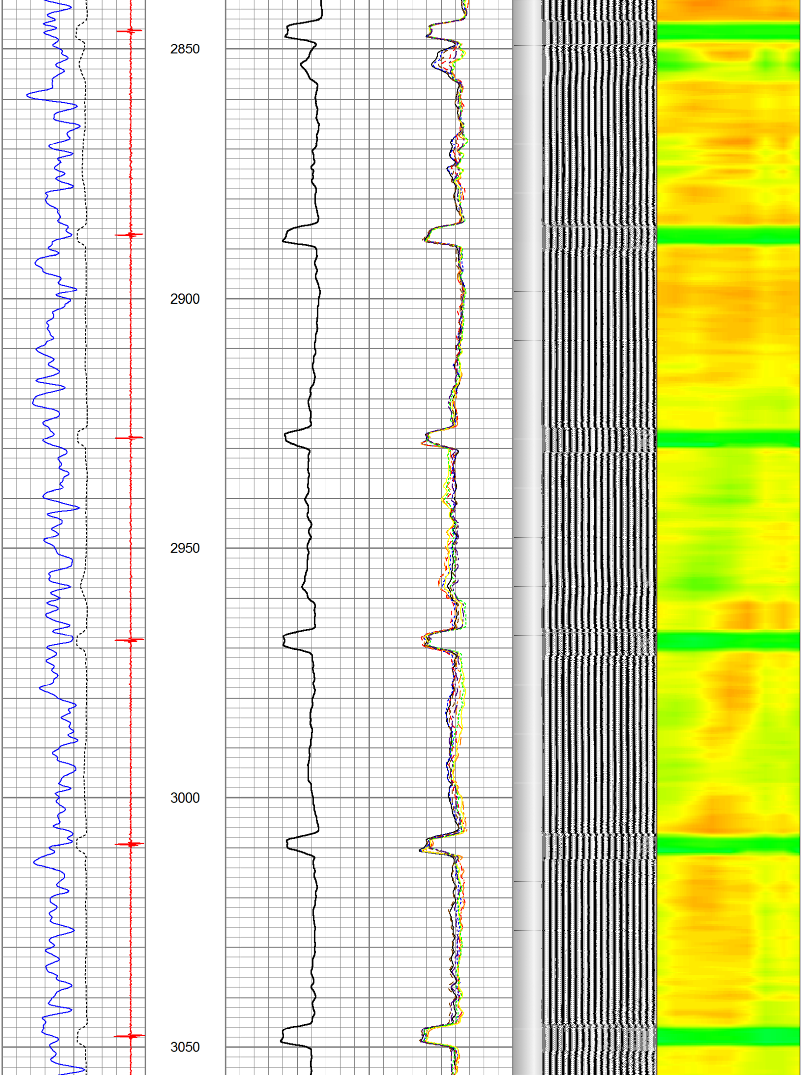
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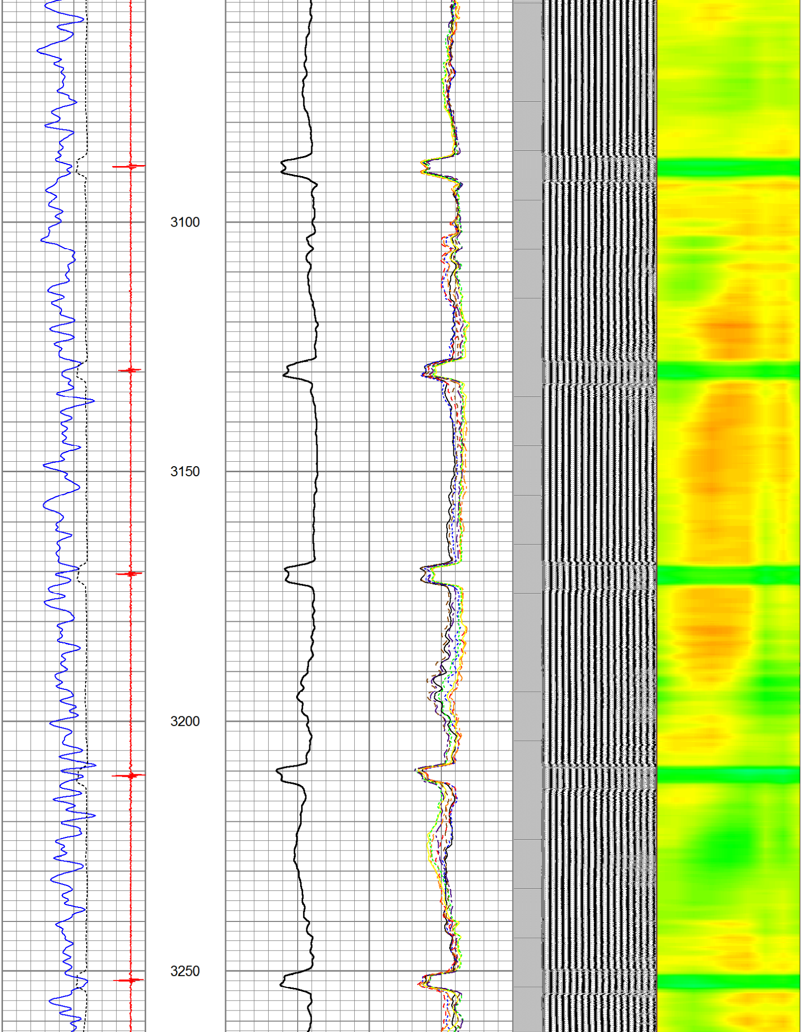
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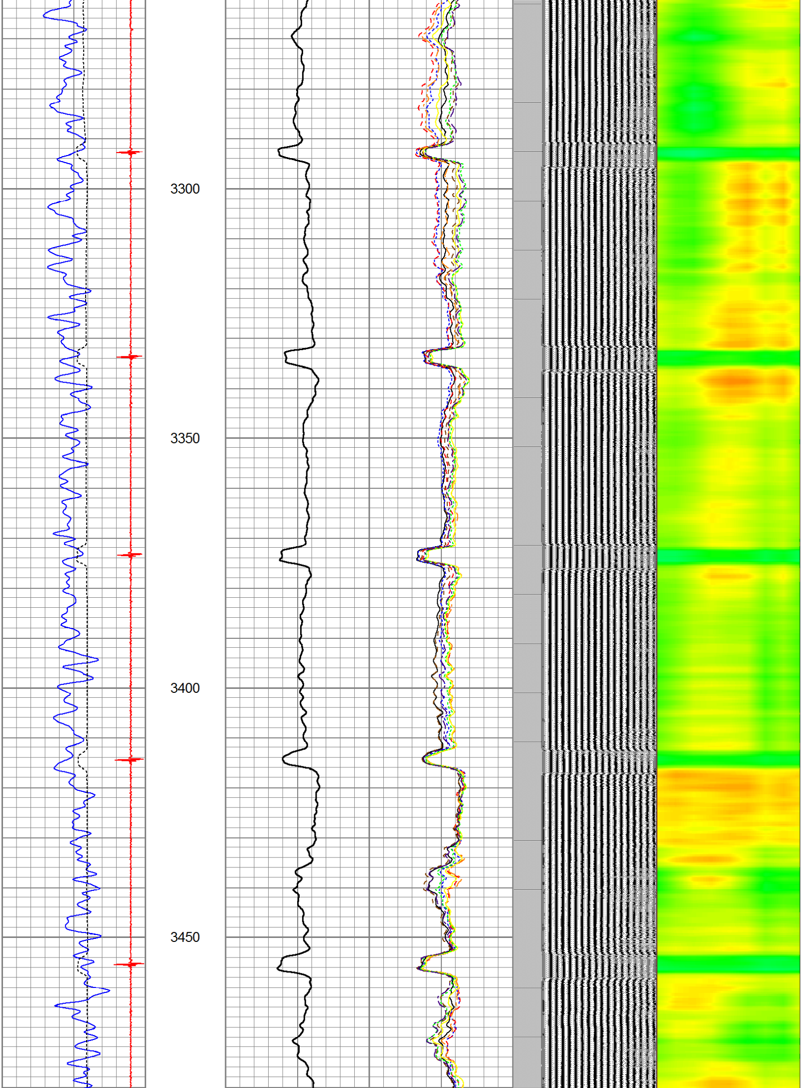
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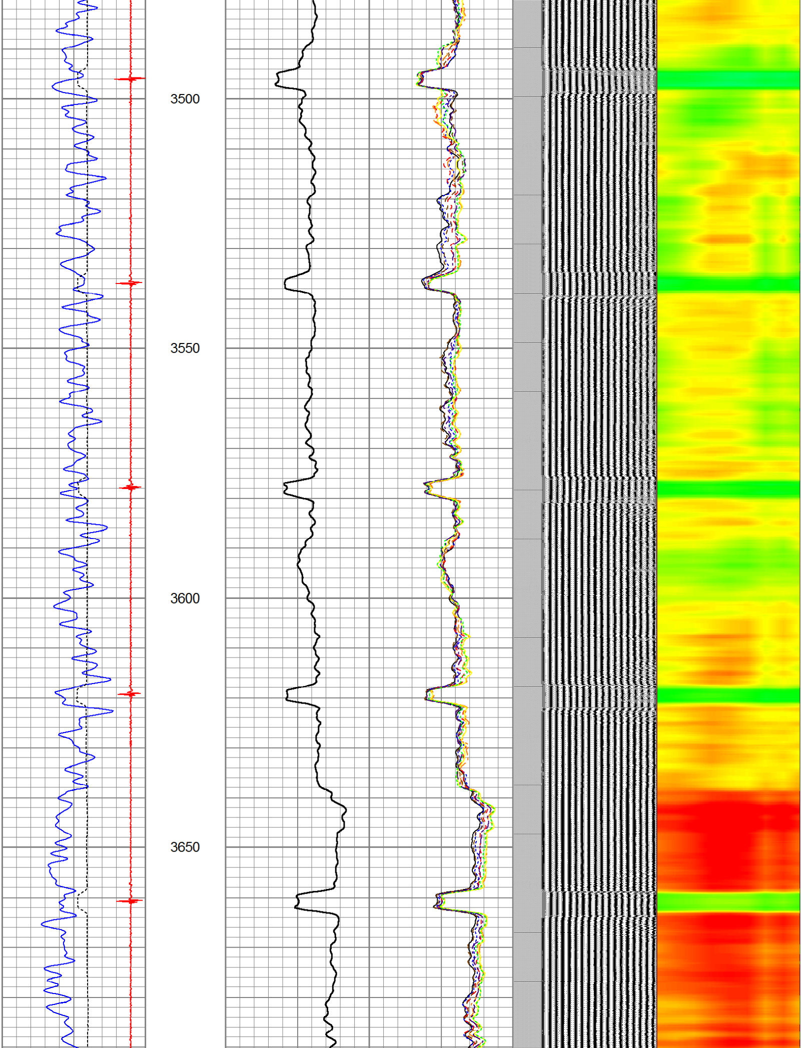
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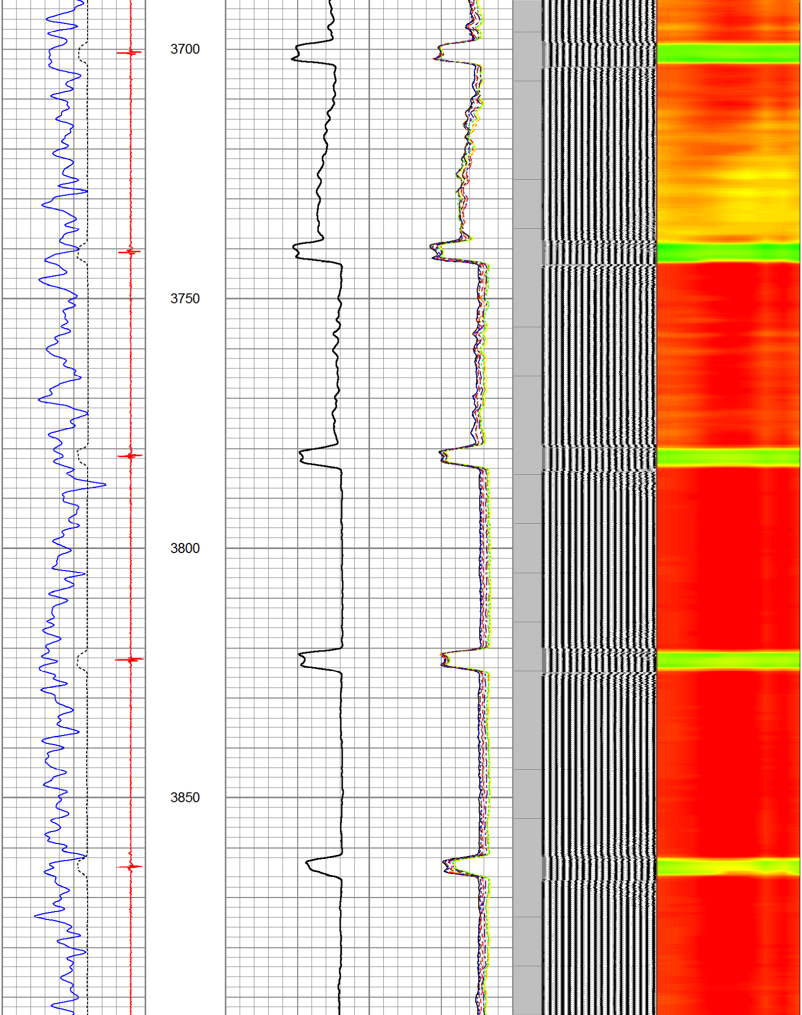
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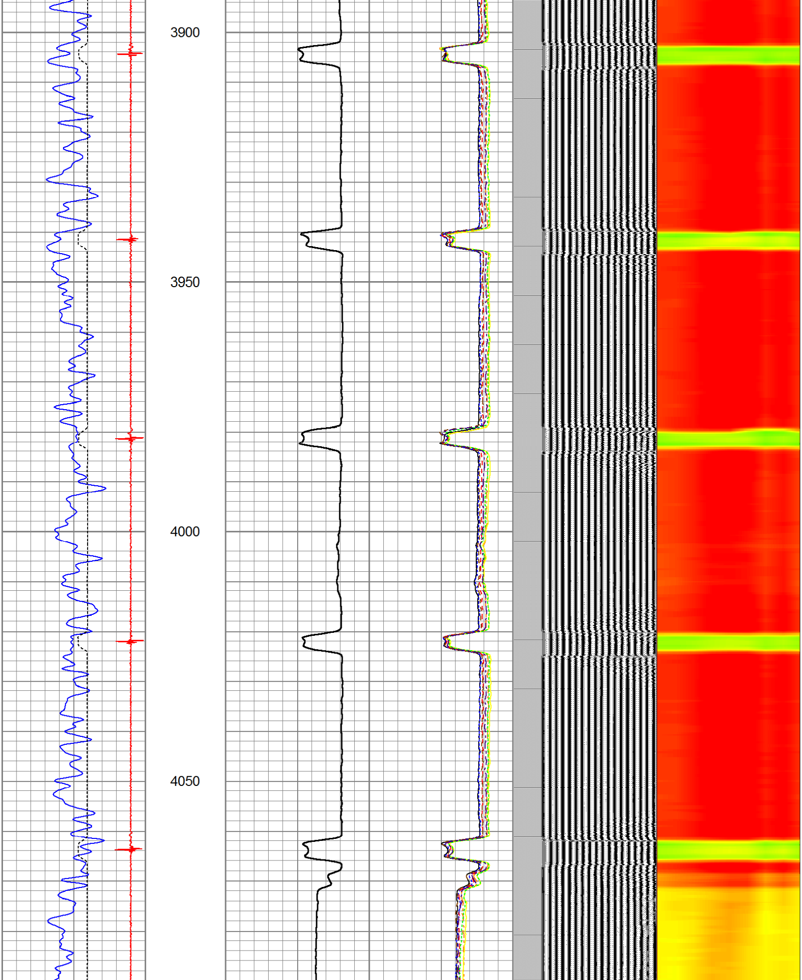
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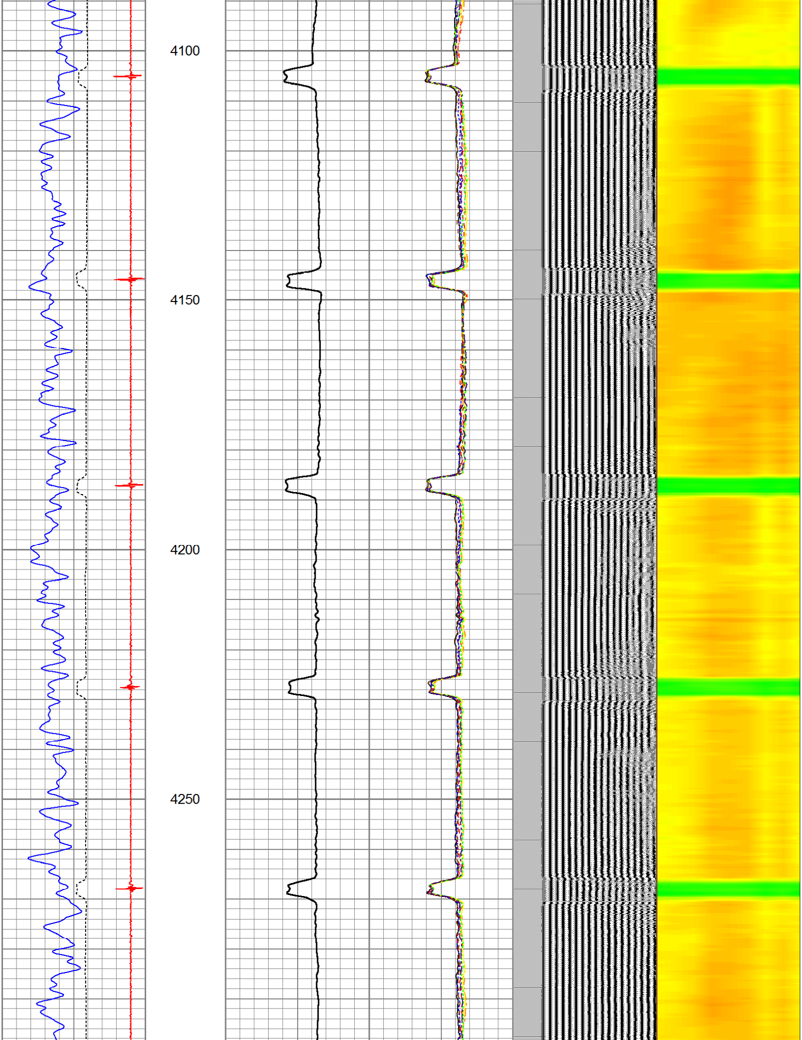
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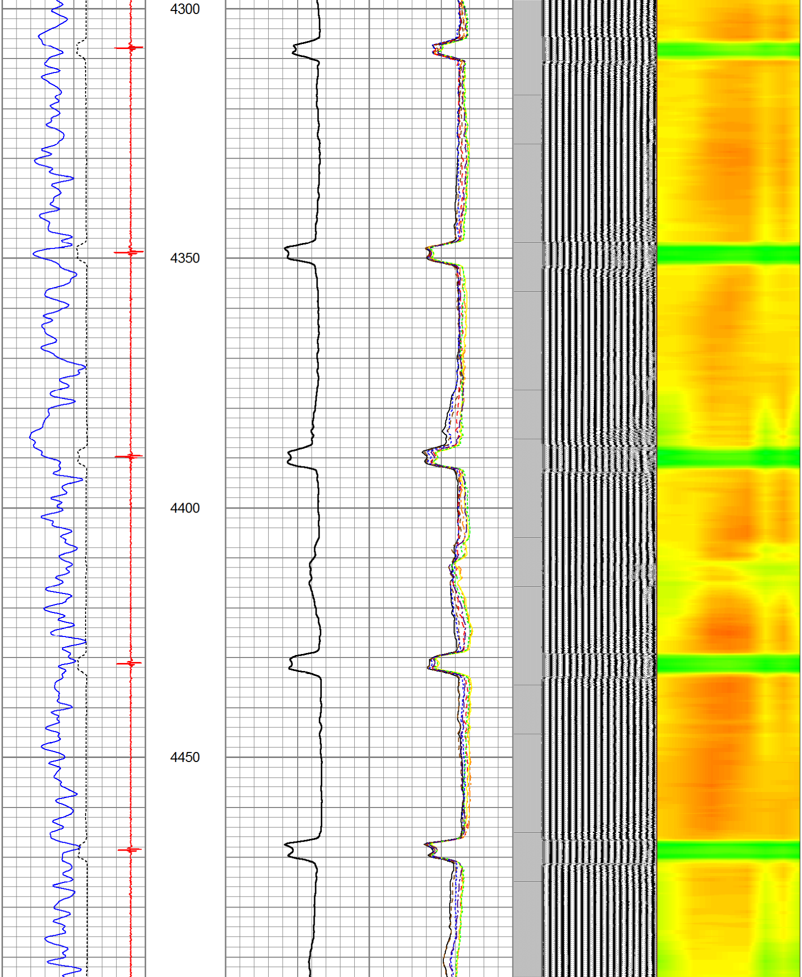
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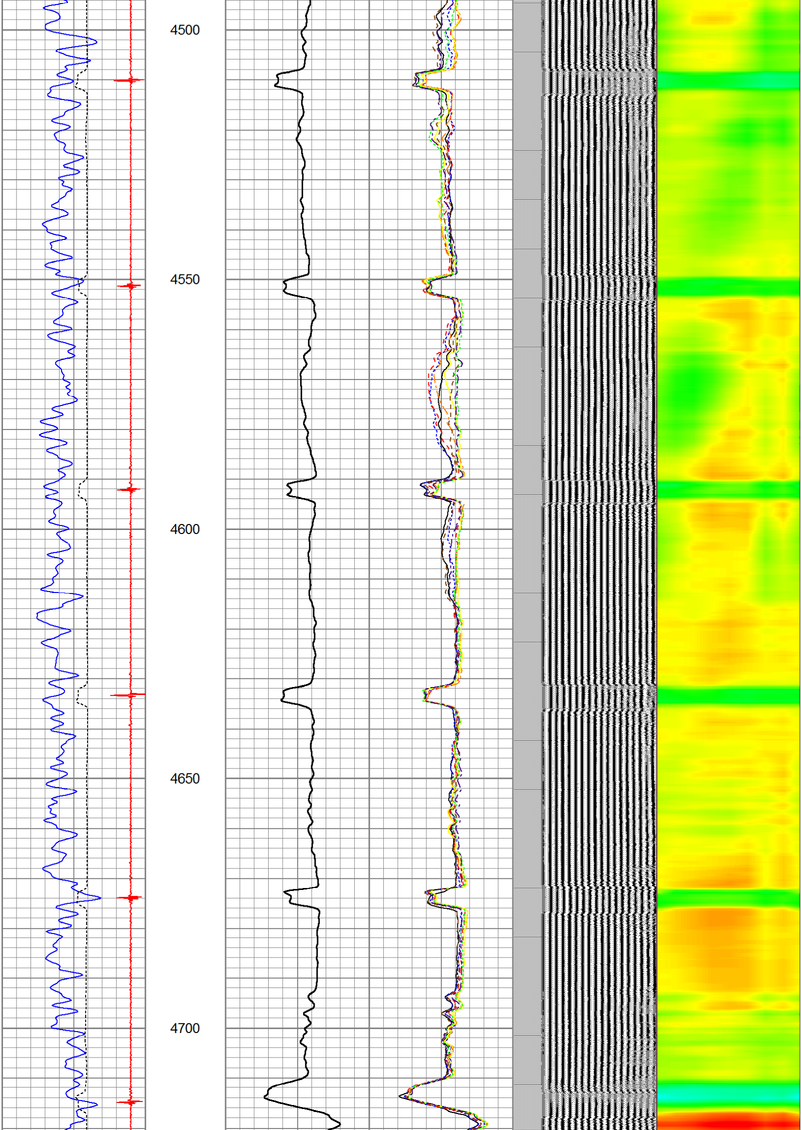
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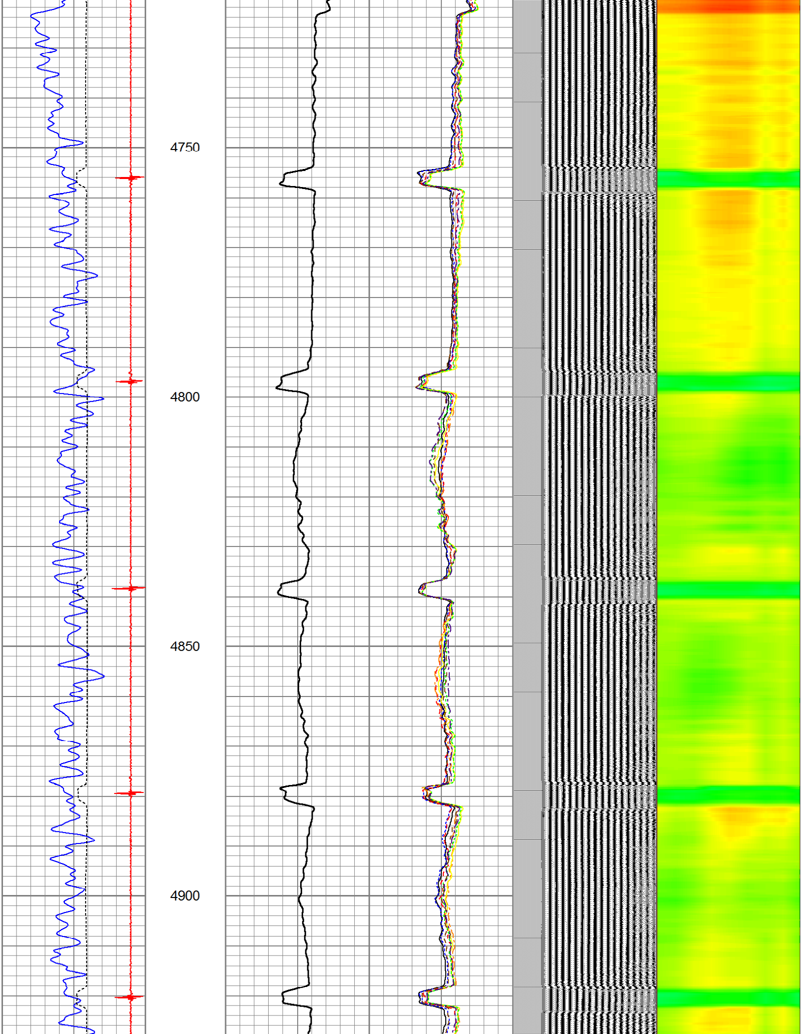
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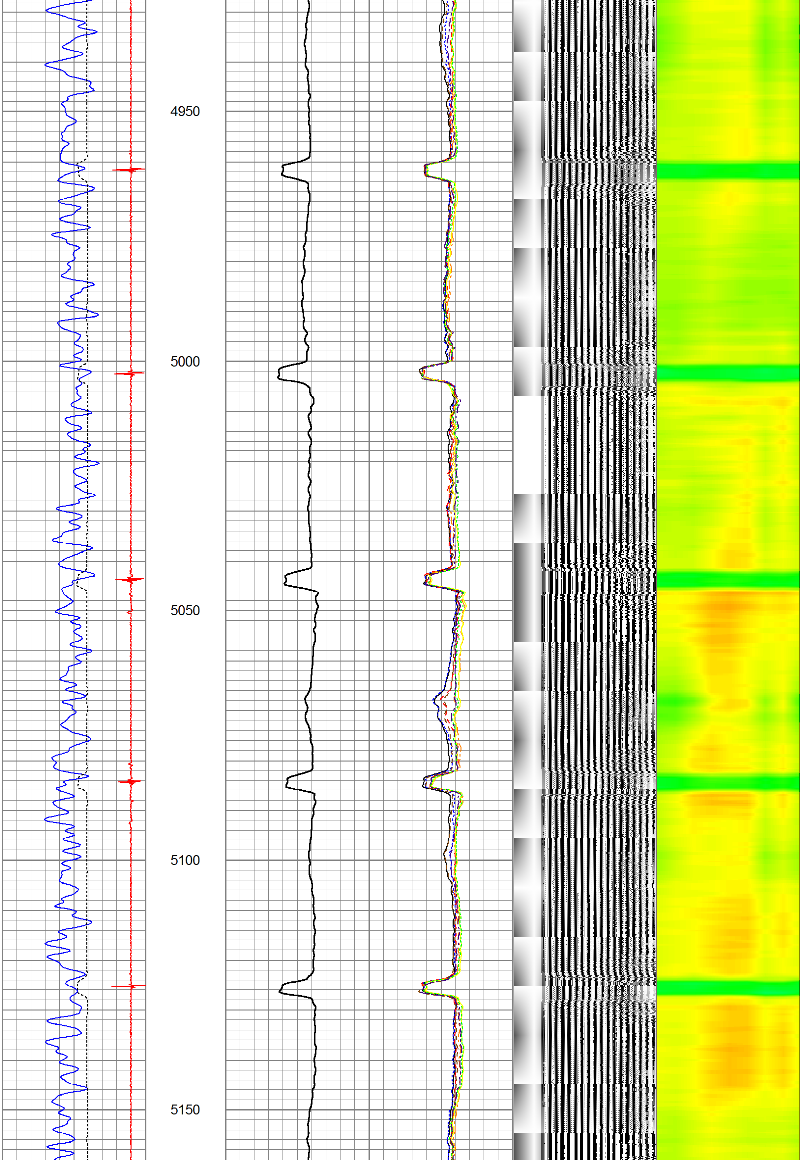
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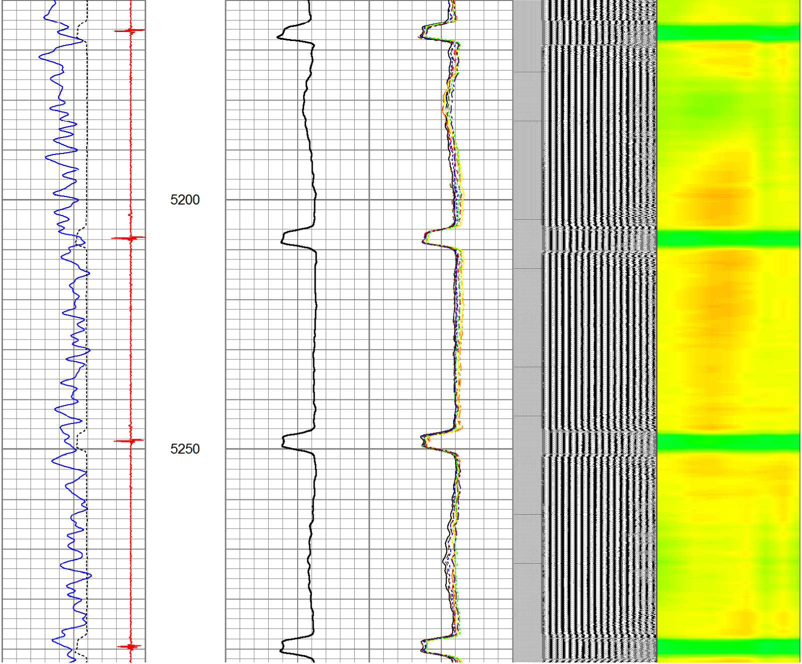
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Calibration Report

Database File: cbl noble monfort gilcrest k8-14.db
Dataset Pathname: pass6
Dataset Creation: Fri Jan 19 16:28:17 2018 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION Thu Oct 26 10:51:22 2017

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.5500			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 101020
Tool Model: Probe

Calibration Casing Diameter: 4.500 in
Calibration Depth: 556.075 ft

Master Calibration, performed Fri Jan 19 16:13:10 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	1.010	1.500	81.196	79.471	0.925
CAL	0.007	0.163				
5'	0.007	1.068	1.500	81.196	75.132	0.970
SUM						
S1	0.007	1.076	0.000	81.196	75.966	-0.540
S2	0.007	1.057	0.000	81.196	77.336	-0.560
S3	0.007	0.997	0.000	81.196	82.034	-0.588
S4	0.007	0.933	0.000	81.196	87.666	-0.635
S5	0.007	0.922	0.000	81.196	88.736	-0.641
S6	0.007	0.947	0.000	81.196	86.351	-0.619
S7	0.007	1.033	0.000	81.196	79.155	-0.570
S8	0.007	0.998	0.000	81.196	81.986	-0.590

Internal Reference Calibration, performed Fri Jan 13 14:30:16 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.163	1.000	0.000

Air Zero Calibration, performed Fri Jan 19 16:07:19 2018:

	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