NABORS
COMPLETION & PRODUCTION SERVICES CO.

Gamma Ray, Cement Bond, Variable Density, CCL

Company	Petroleum Developement Corporation
Well	Magnuson 23L-421
Field	Wattenberg
County	Weld
State	Colo
Country	USA

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API # : 05-123-35801

Location: 225' FSL & 780' FWL
SW / SW
SEC 23 TWP 7N RGE 66W

Other Services

Permanent Datum	Ground Level	Elevation 4899'	Elevation K.B. 4913' D.F. 4912' G.L. 4899'
Log Measured From	Kelley Bushing		
Drilling Measured From	Kelley Bushing		

Date	March 28, 2013
Run Number	1
Depth Driller	12,032'
Depth Logger	7600'
Bottom Logged Interval	7600'-3500'
Top Log Interval	3500'-0'
Open Hole Size	
Type Fluid	water
Density / Viscosity	
Max. Recorded Temp.	n/a
Estimated Cement Top	
Time Well Ready	
Time Logger on Bottom	
Equipment Number	3312 1 11/16 tit
Location	WCRs33+76,N1,E1/10into
Recorded By	Jake Meisner
Witnessed By	Kelly Lewis

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	7"			
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

<WEST> O O O X <EAST>

X = Magnuson 23L-421

Database File:	pdcm23l421.db
Dataset Pathname:	pass2
Presentation Format:	cbl_drs
Dataset Creation:	Thu Mar 28 12:20:49 2013 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

400 TRAVEL TIME (usec) 200
15 Collar Locator -2
0 Gamma Ray (GAPI) 200
0 AMP3 (mV) 100
0 Amplified Amp 3 (mV) 10
200 VDL 1200

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0 AMP3 (mV) 100
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Database File:	pdcm23l421.db
Dataset Pathname:	pass1
Presentation Format:	cbl_drs
Dataset Creation:	Thu Mar 28 11:42:22 2013 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

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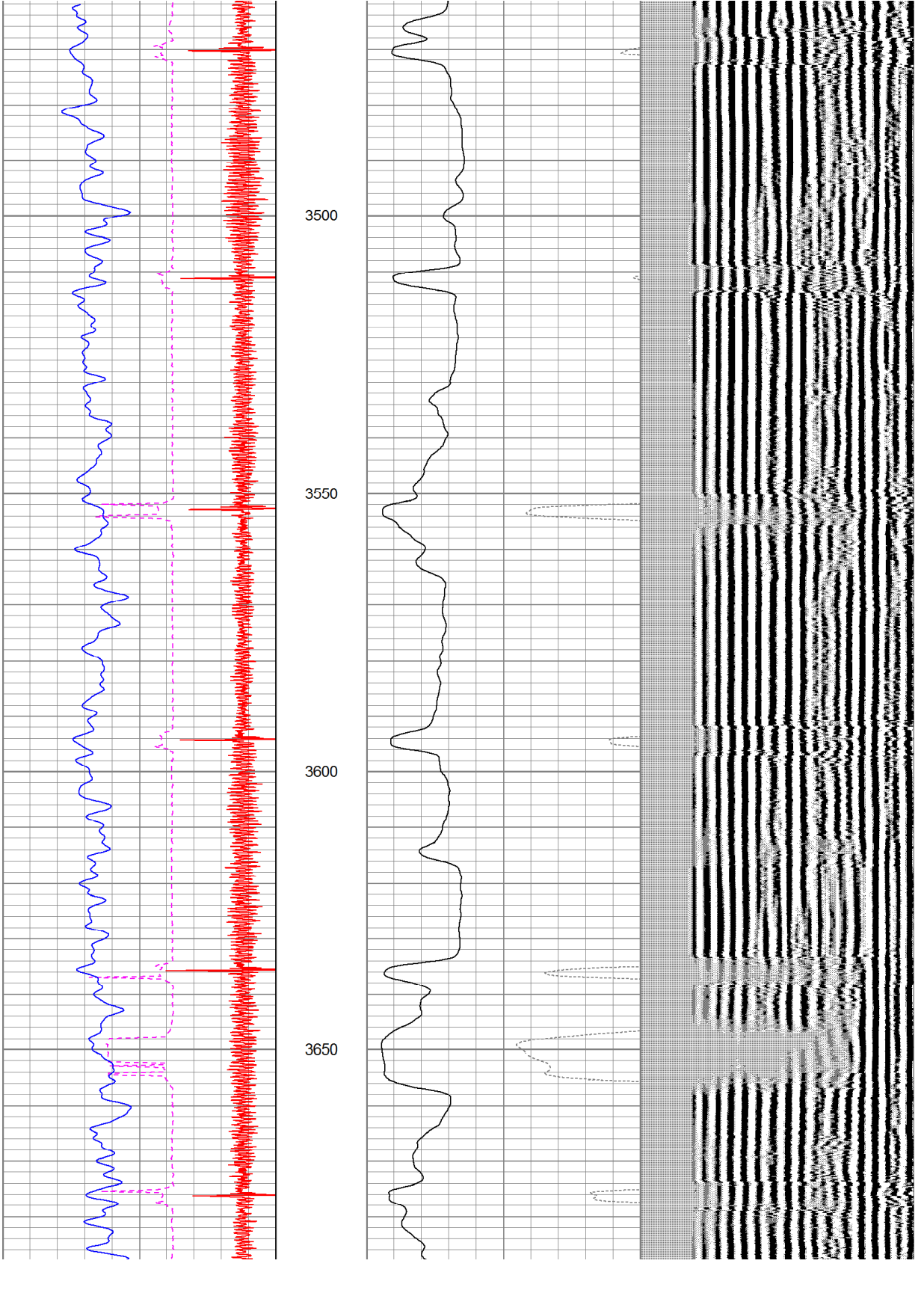

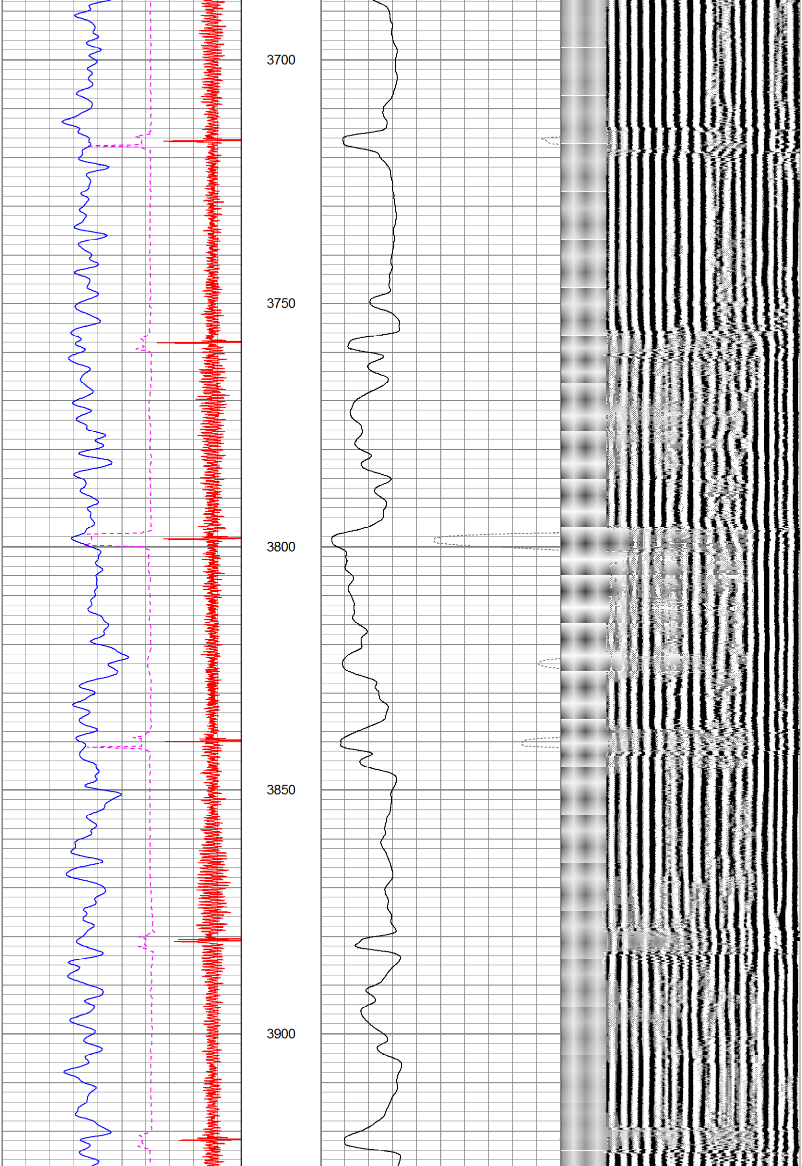
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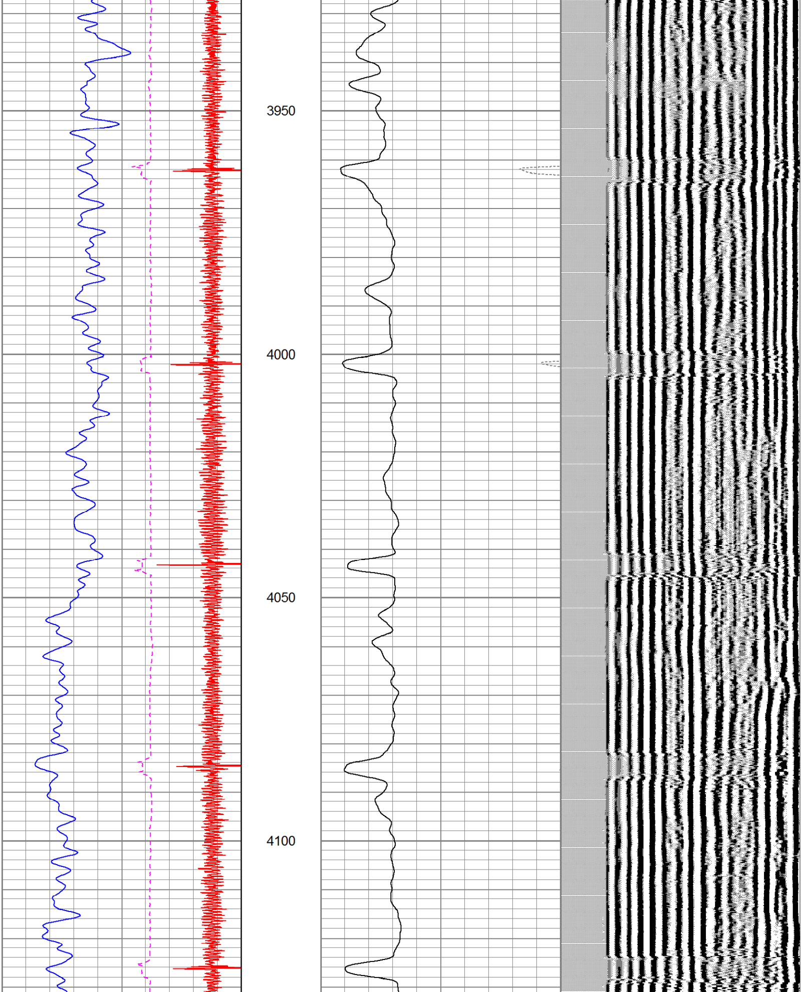
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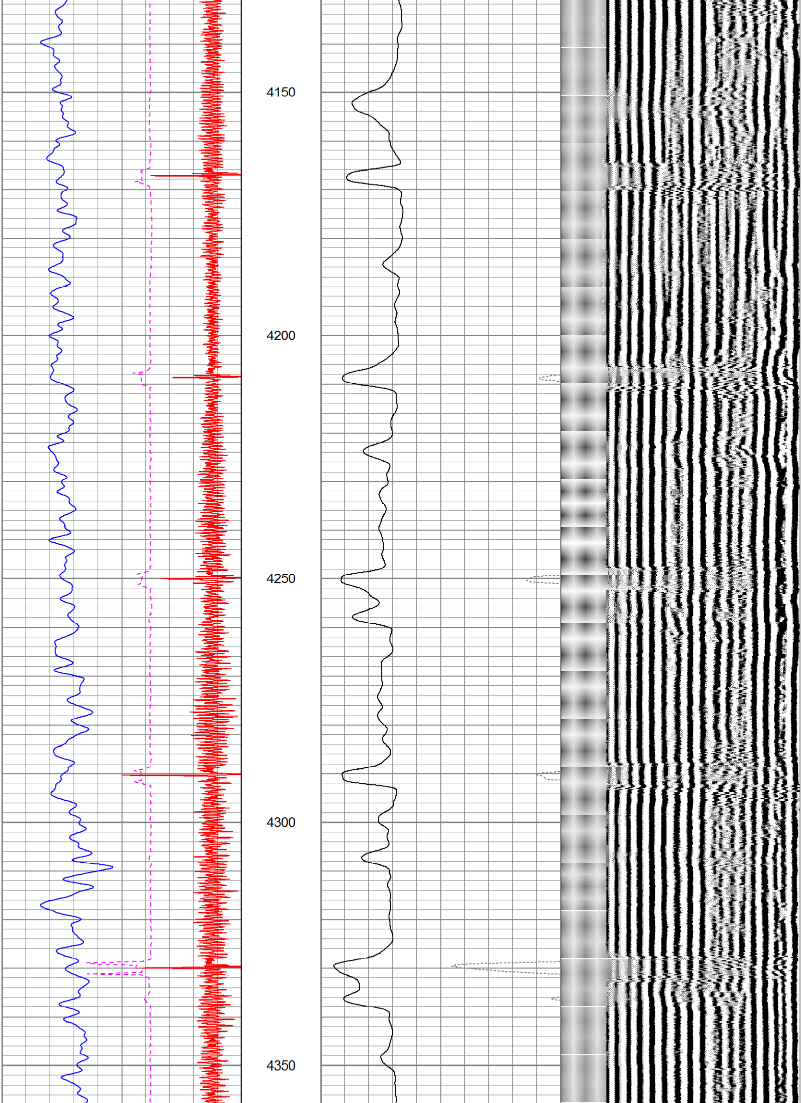
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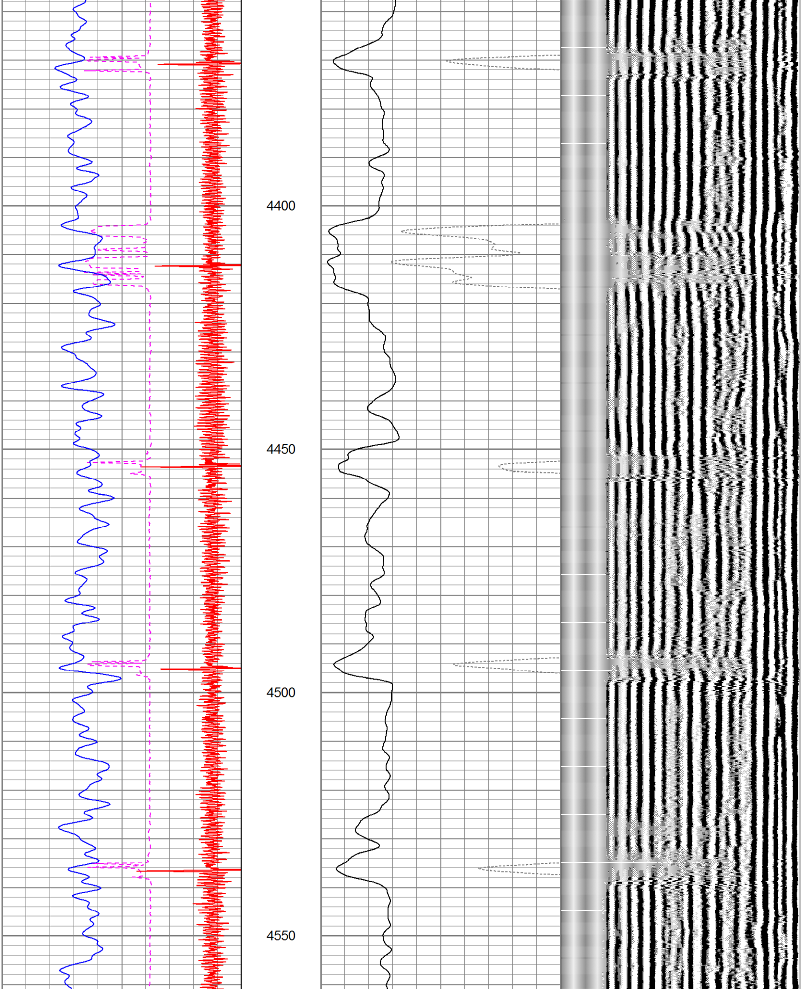
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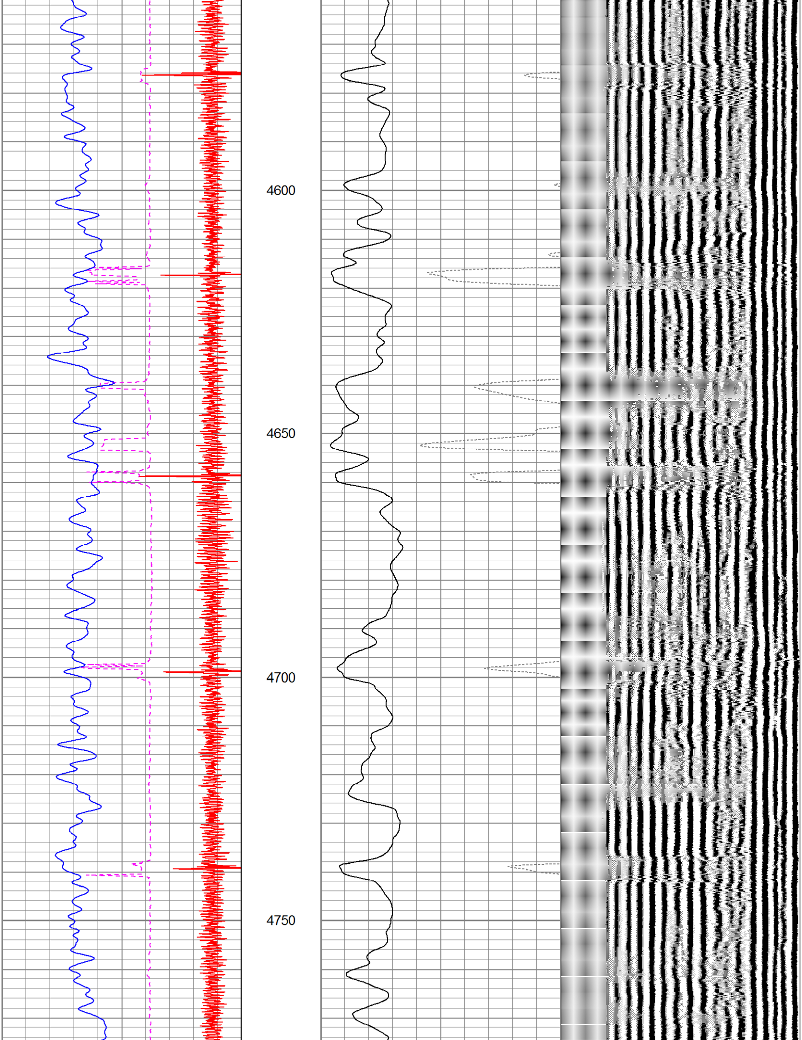
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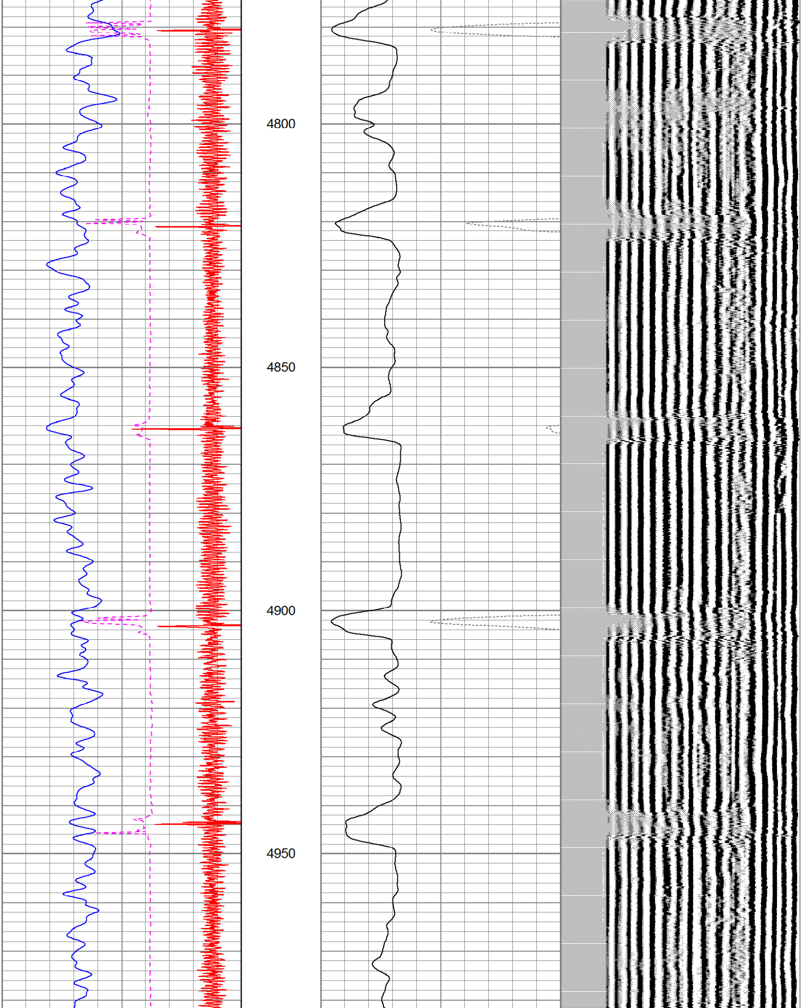
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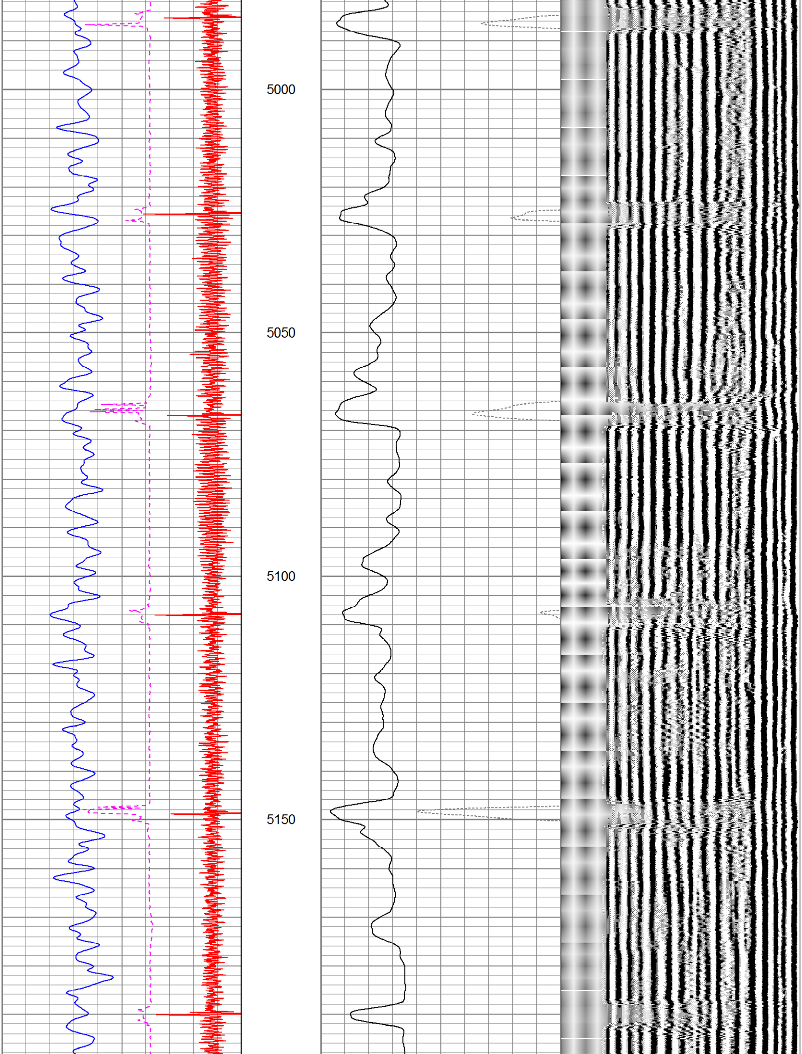
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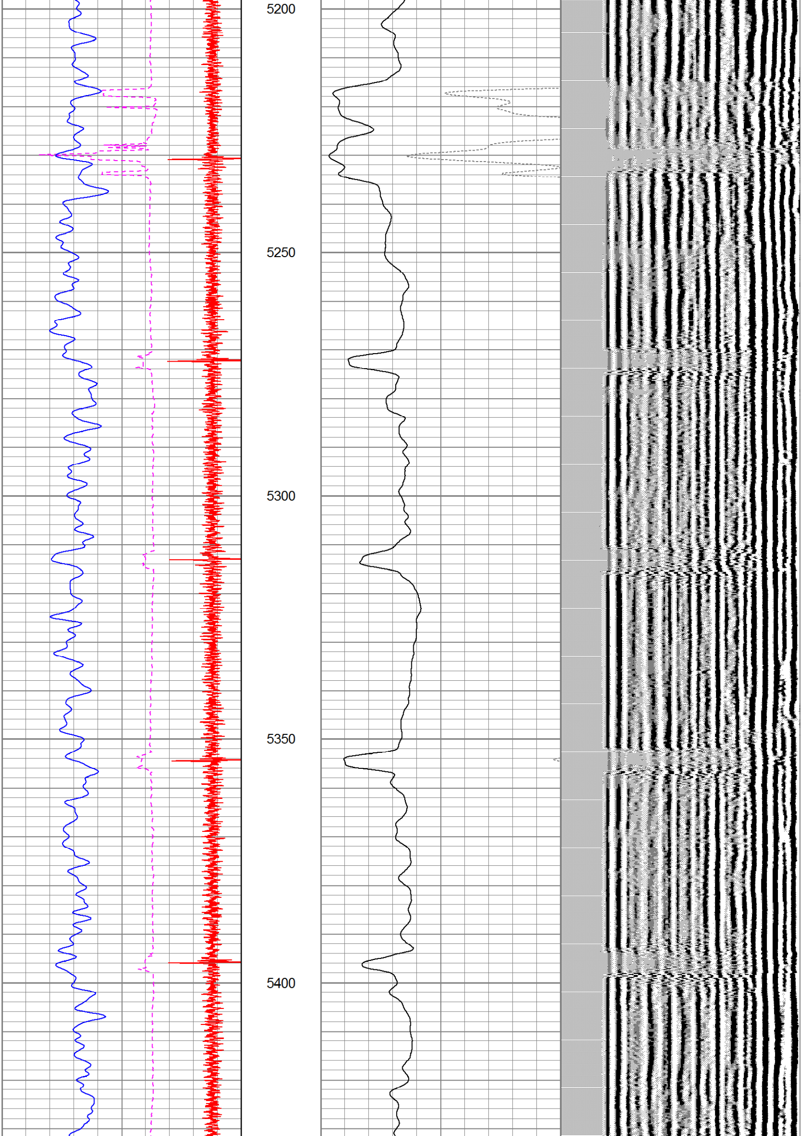
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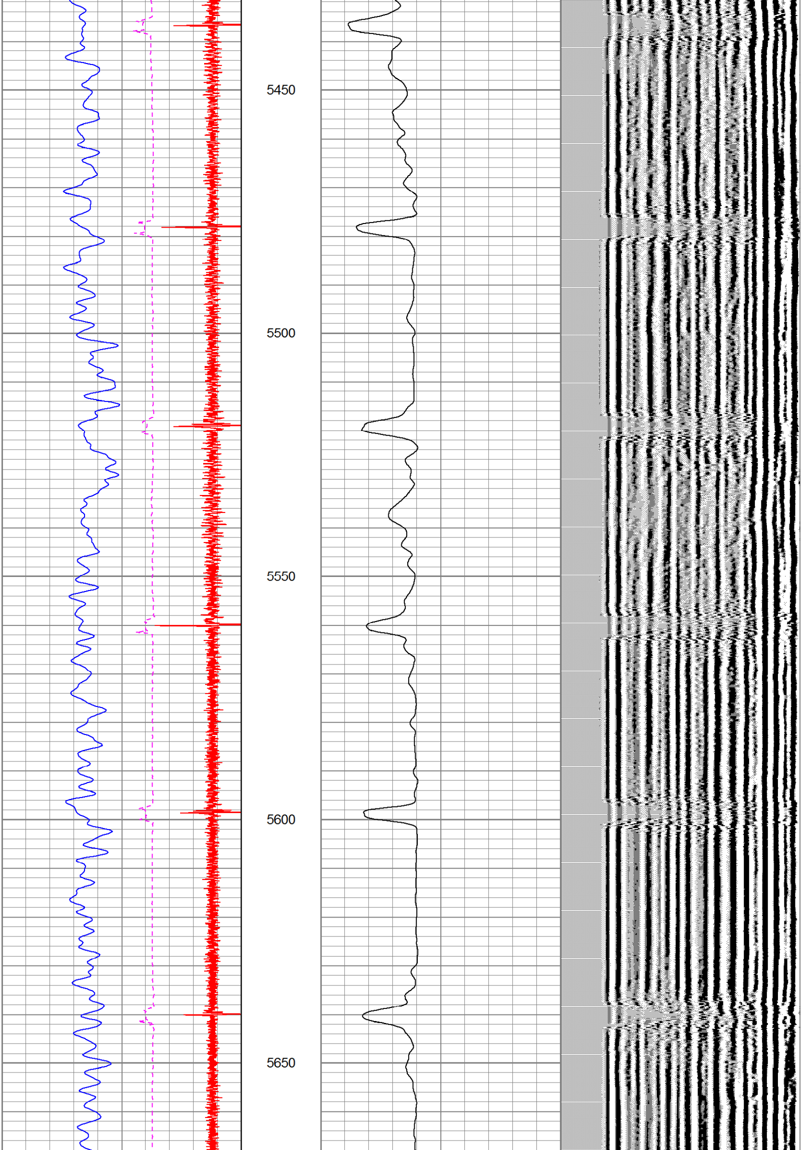
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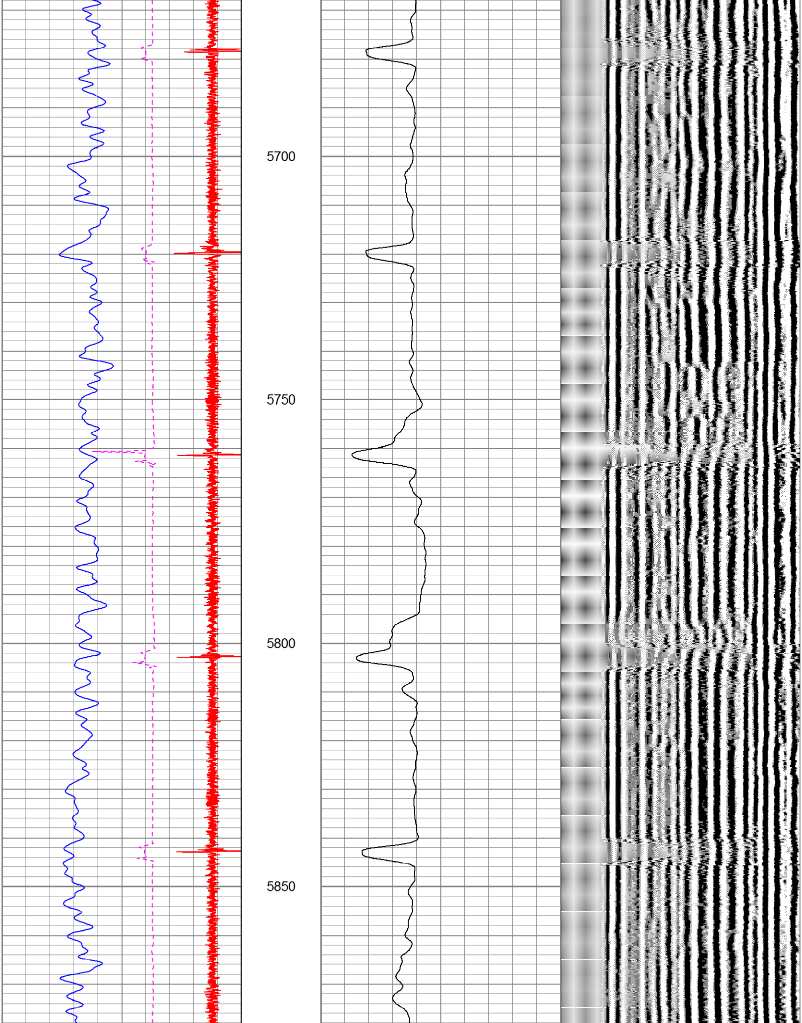
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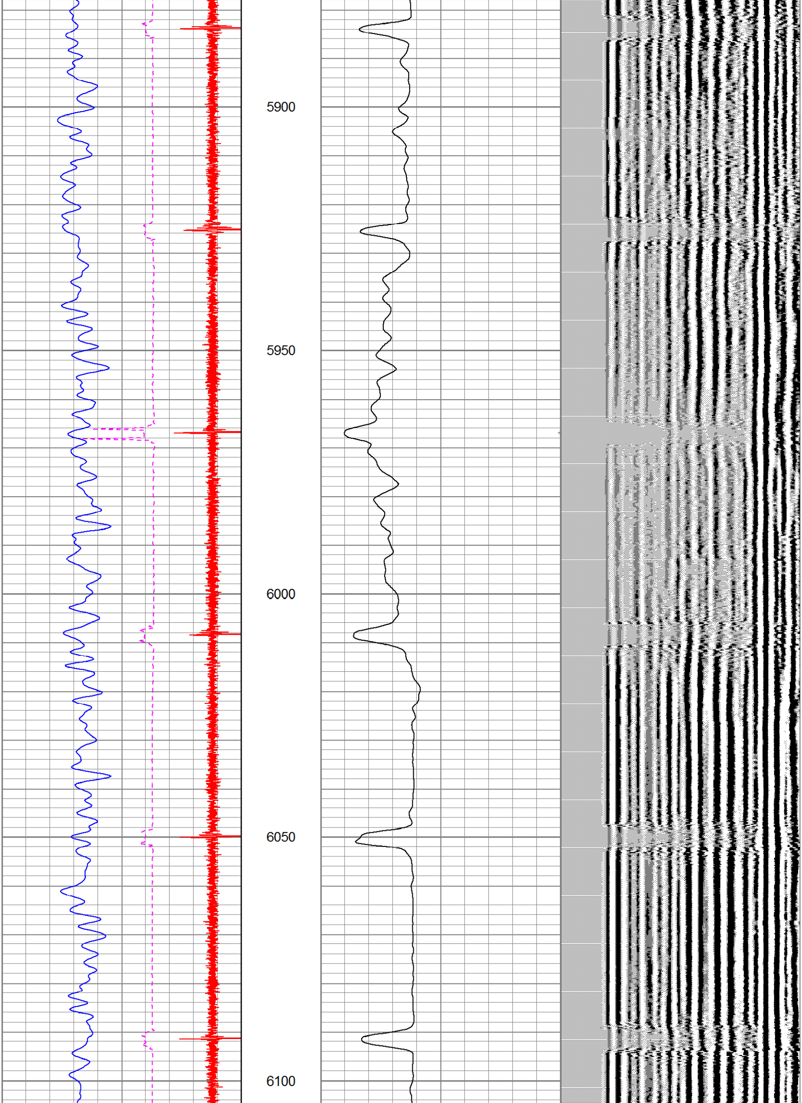
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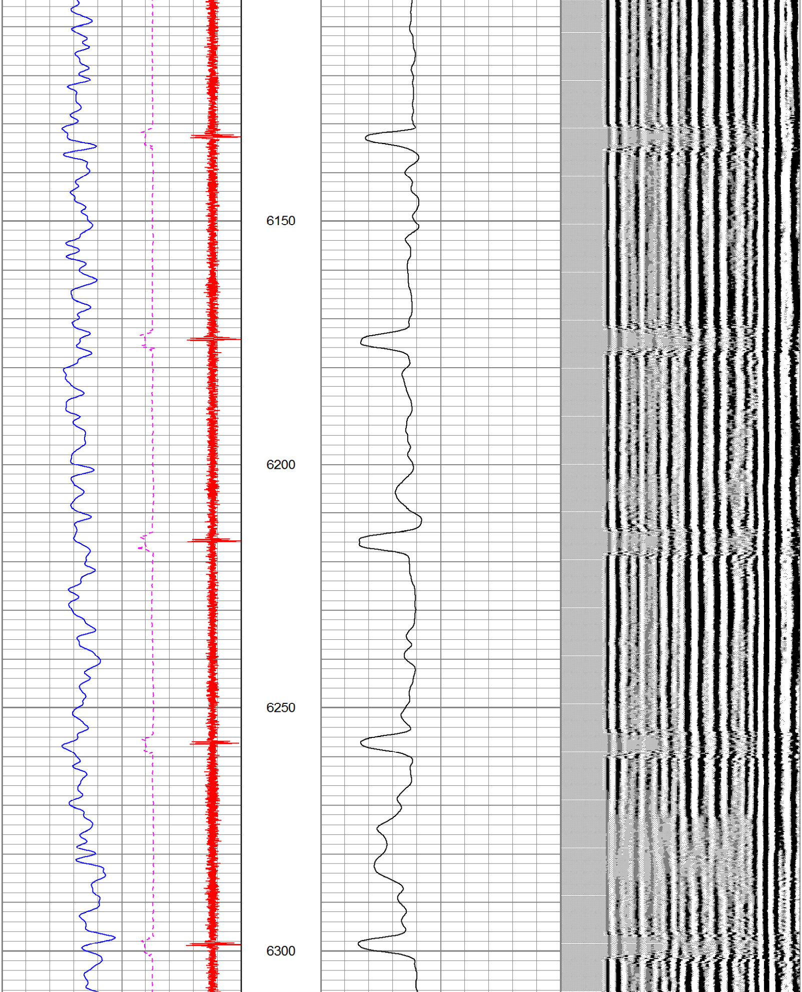
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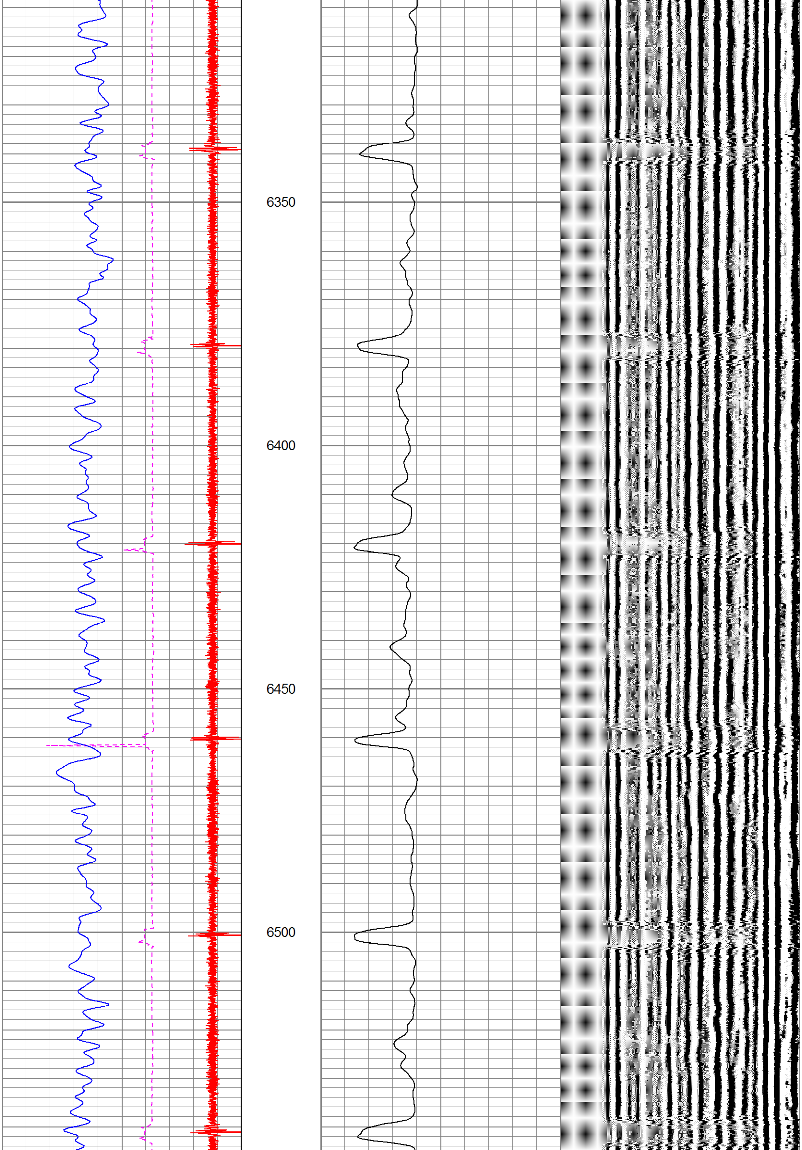
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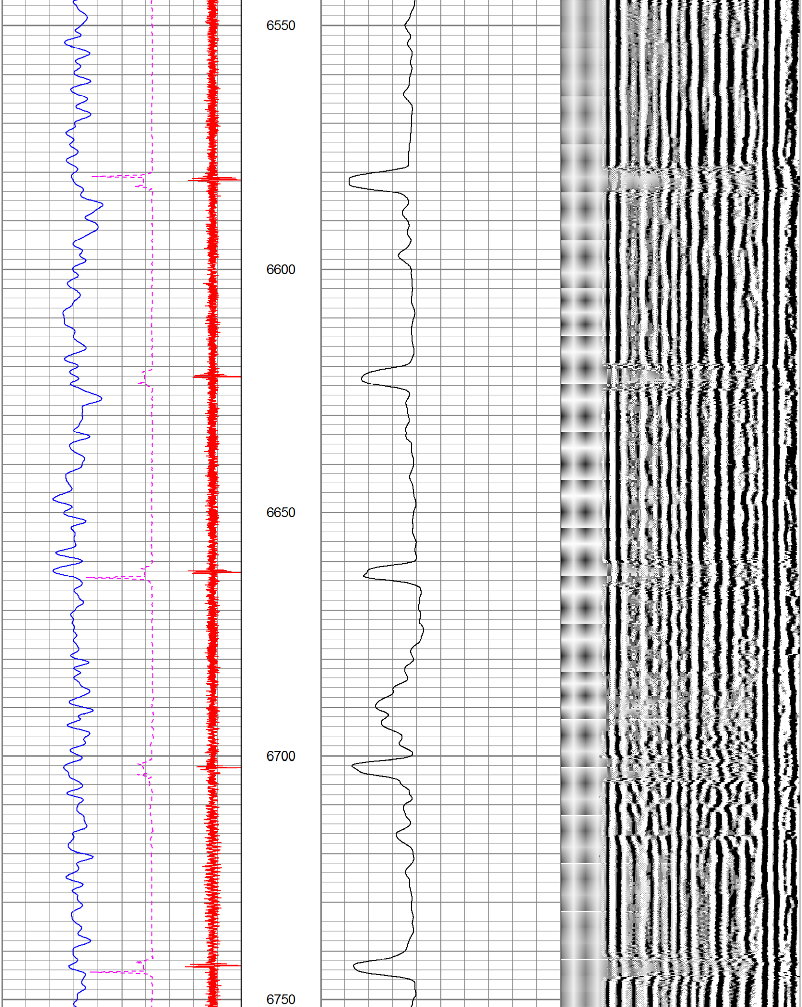
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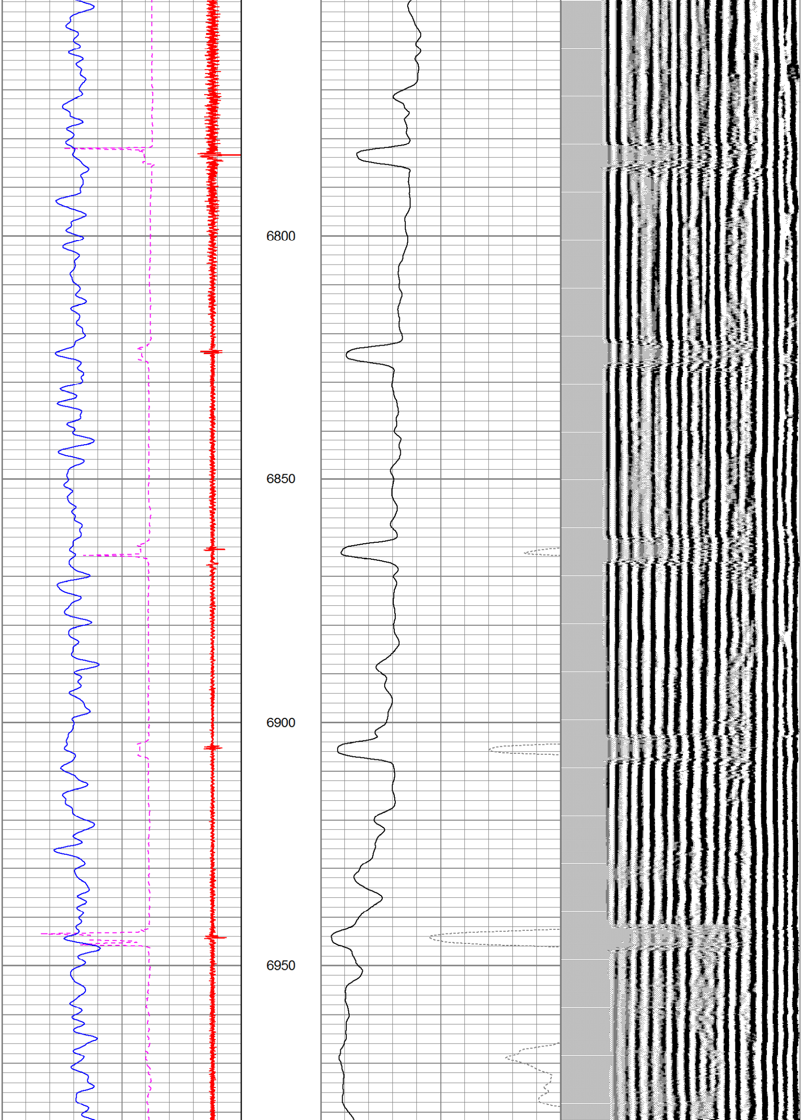
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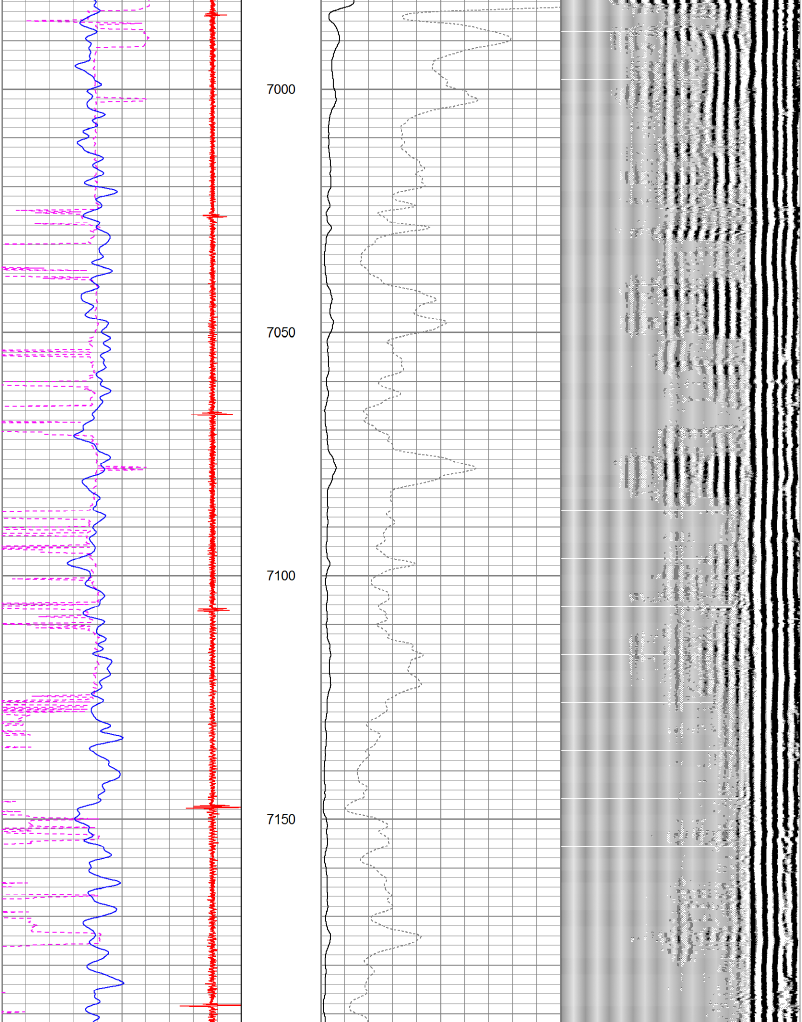
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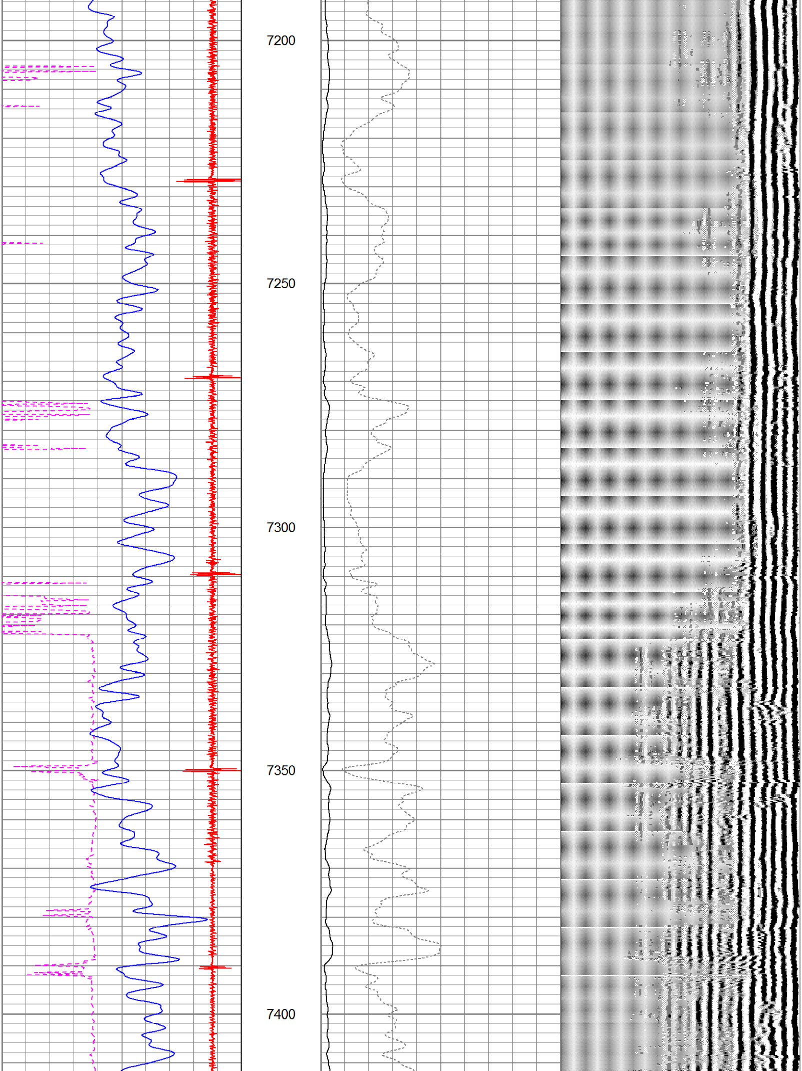
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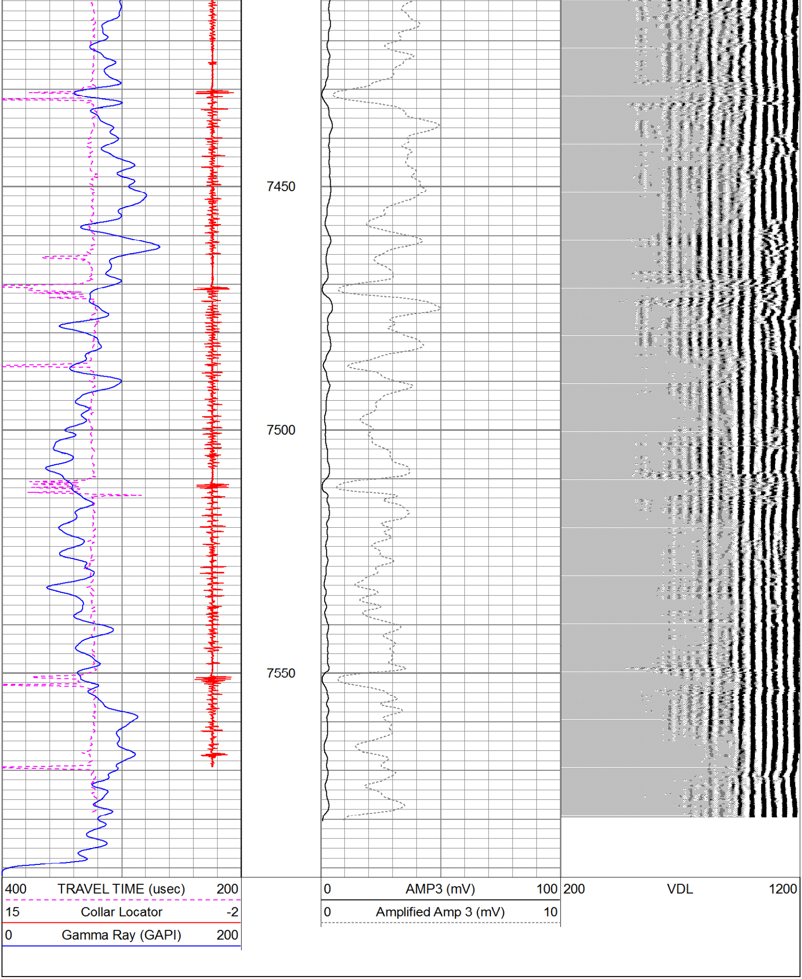
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