C&J ENERGY SERVICES

GAMMA RAY C.C.L. CEMENT BOND V.D.L.

Company	PDC Energy
Well	Wilmoth E 5A-312
Field	Wattenberg
County	Weld
State	CO

Company PDC Energy

Well Wilmoth E 5A-312

Field Wattenberg

County Weld State CO

Location: API #: 05-123-45484

1009' FNL &1100' FWL

NW / NW

SEC 5 TWP 4N RGE 64W

Other Services

Permanent Datum GL Elevation 4738'

Log Measured From KB

Drilling Measured From KB

Elevation

K.B.

D.F.

G.L. 4738'

Date	December 11, 2018
Run Number	1
Depth Driller	6900'
Depth Logger	16,477'
Bottom Logged Interval	6900'-0'
Top Log Interval	
Casing Size	
Casing Fluid	
Type Fluid	WATER
Max. Recorded Temp.	232°
Estimated Cement Top	
Time Well Ready	
Time Logger On Bottom	
Unit Number	923856
Tool Size / ID Number	2-3/4" Probe
Location	wcr51+52.s2/10.einto
Recorded By	Meisner
Witnessed By	Gardella

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	5.5"			
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

Wilmoth E/W 12 Well Pad

<NORTH> O X O O O O O O O O O O <SOUTH>

X = Wilmoth W 5A-312

Database File: pdcwe5a312.db
Dataset Pathname: pass3
Presentation Format: sector2
Dataset Creation: Tue Dec 11 08:10:16 2018 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 110 400 TT3FT (usec) 200 -50 CCL 5	5 CCL 5.5	0 AMPMAX 100 0 AMPAVG 100 0 AMPMIN 100 0 AMP3FT (mV) 100

200 WVF5FT 1200	1 Sector Map 8

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200 WVF5FT 1200	1 Sector Map 8

Database File: pdcwe5a312.db
Dataset Pathname: pass2
Presentation Format: sector2
Dataset Creation: Tue Dec 11 07:31:40 2018 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

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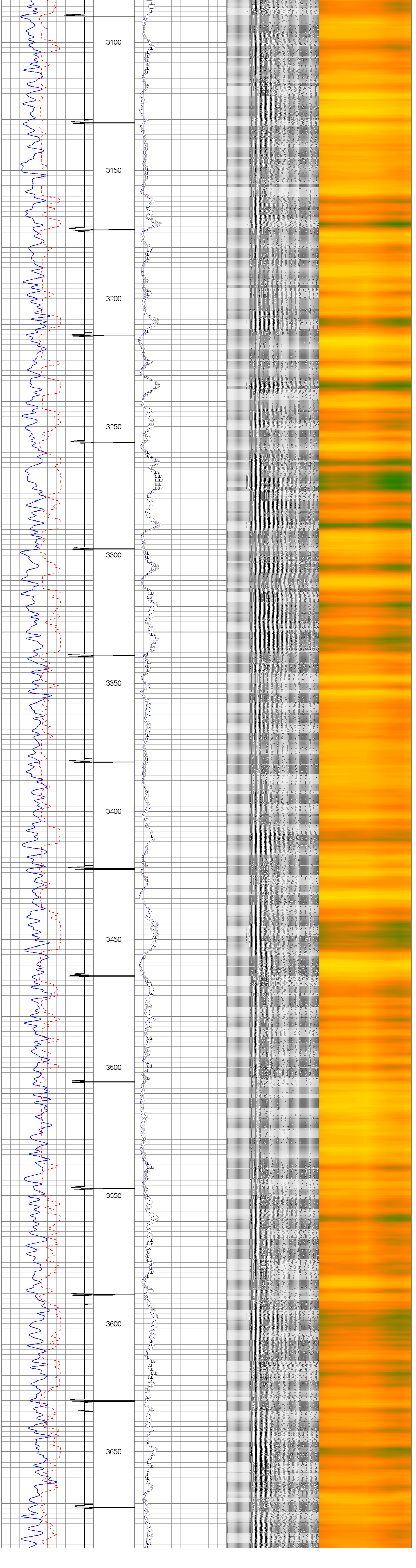
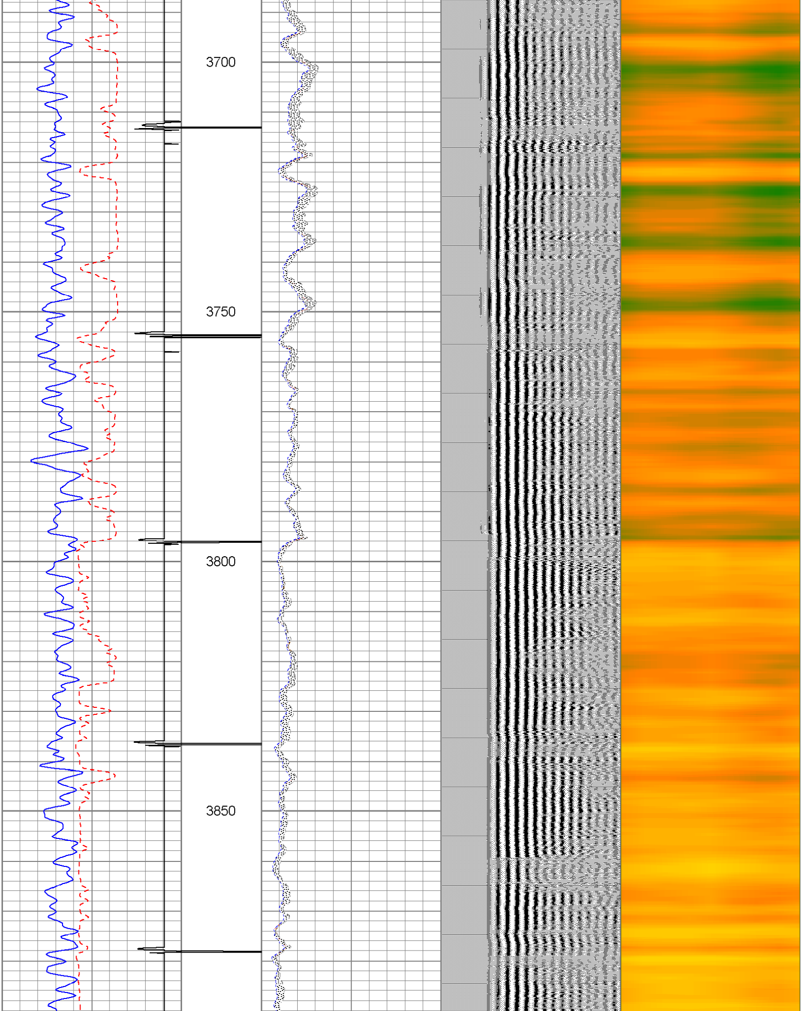
200 WVF5FT 1200	1 Sector Map 8

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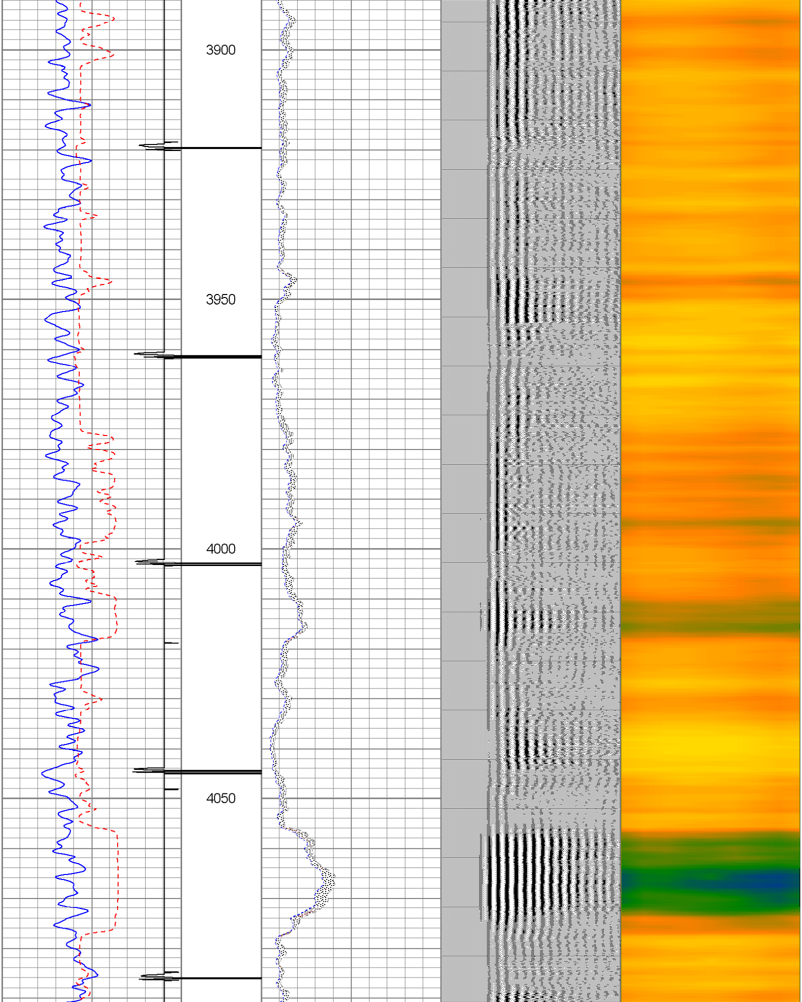
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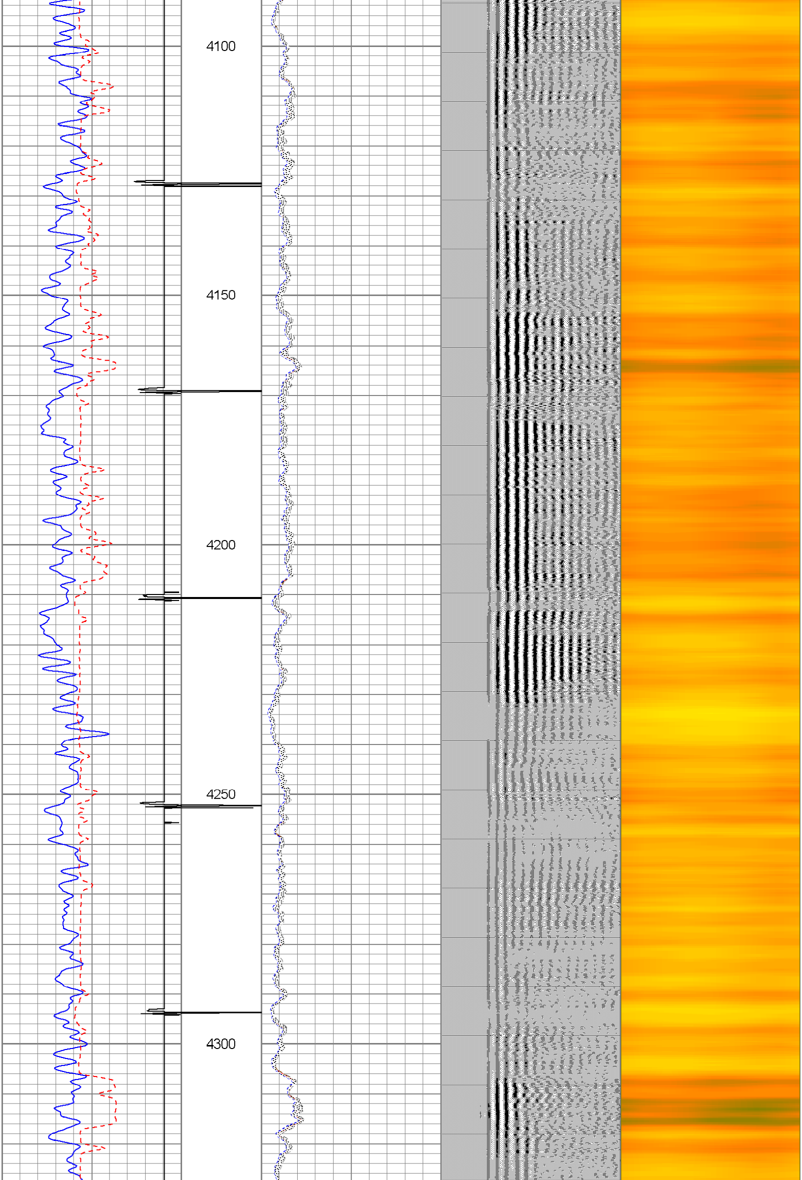
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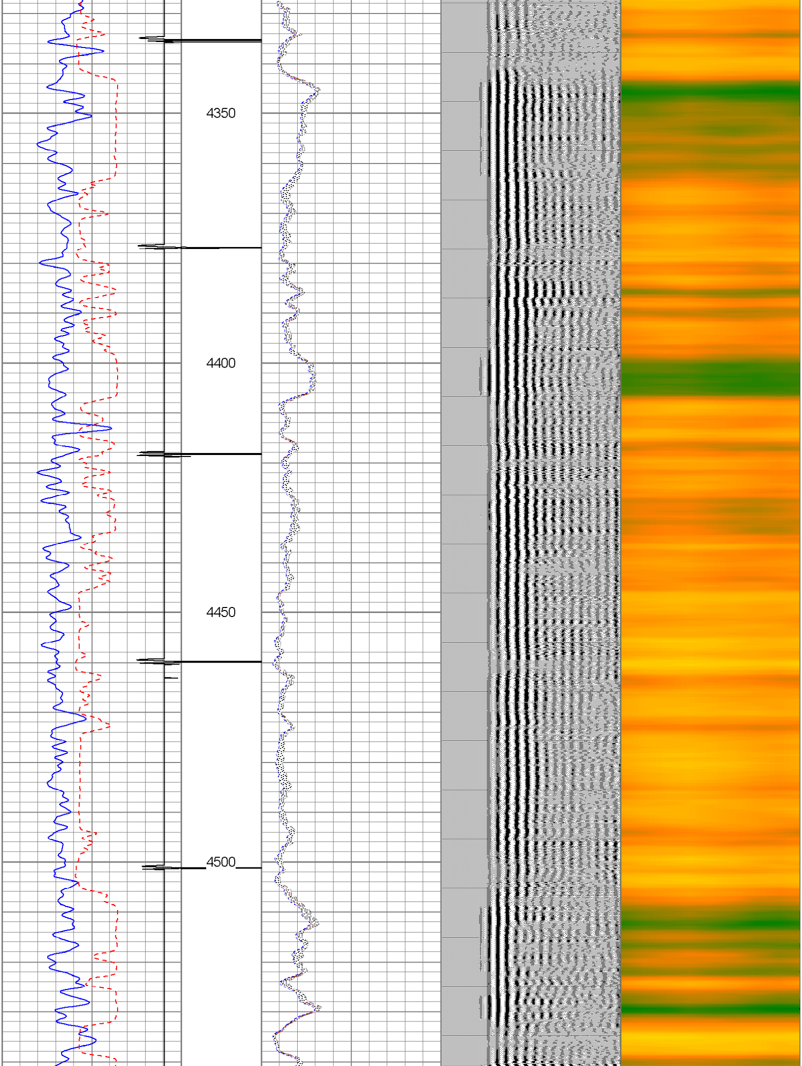
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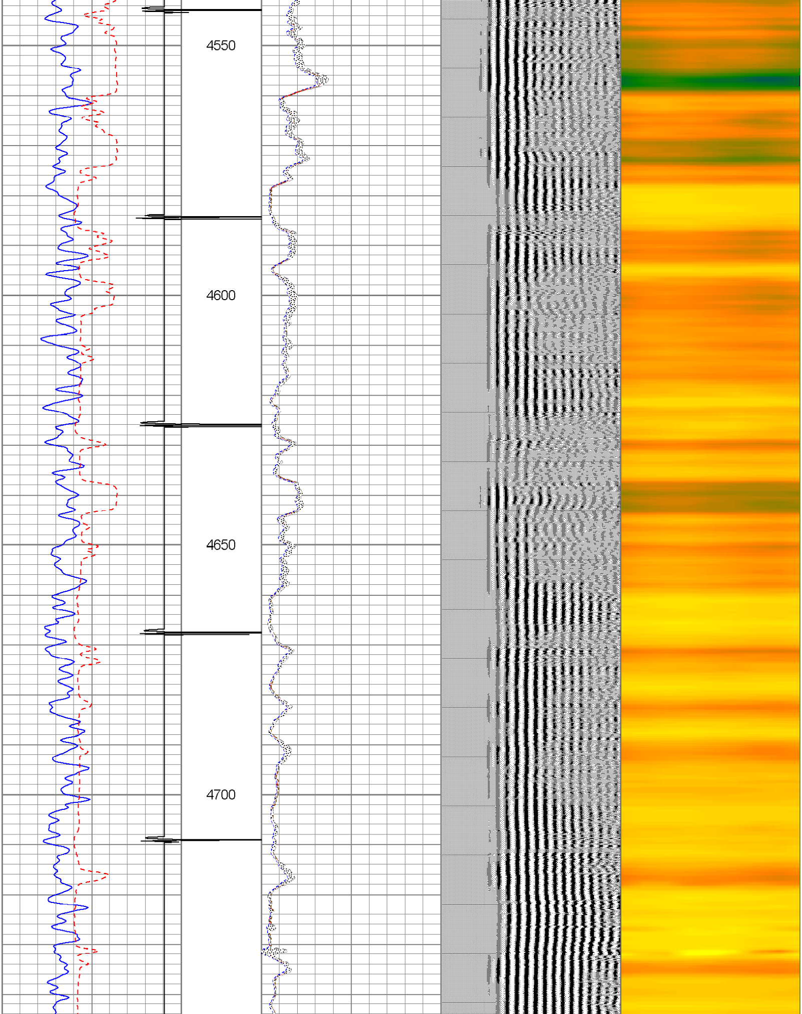
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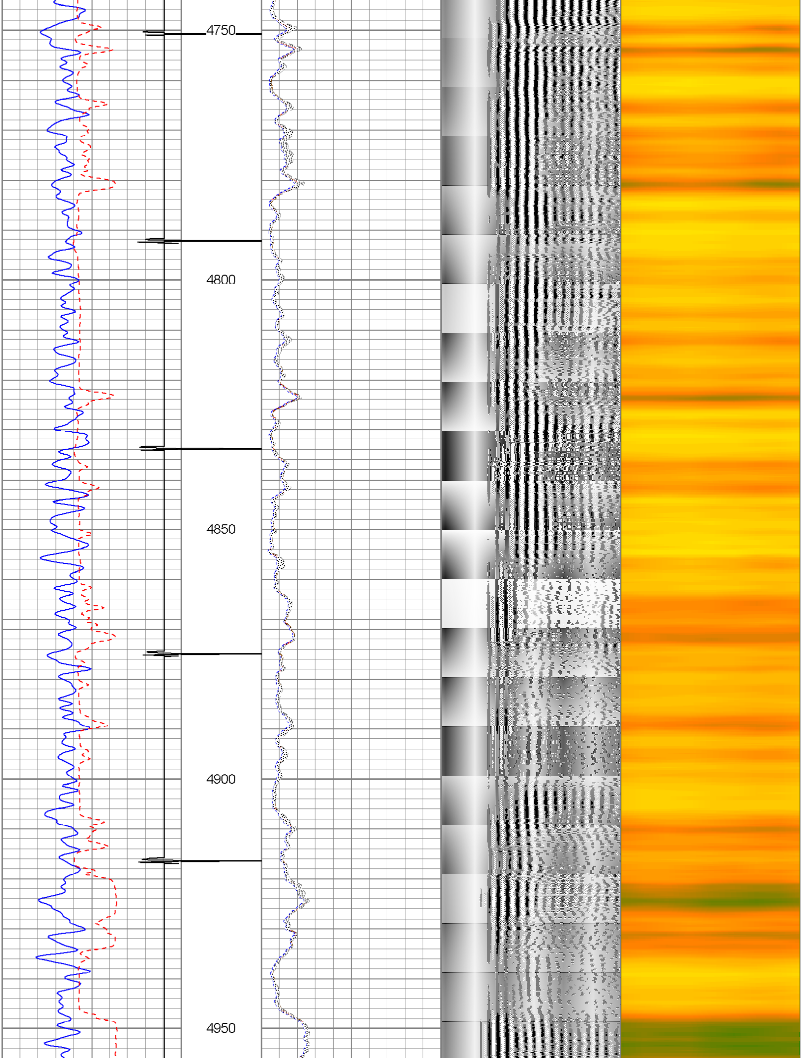
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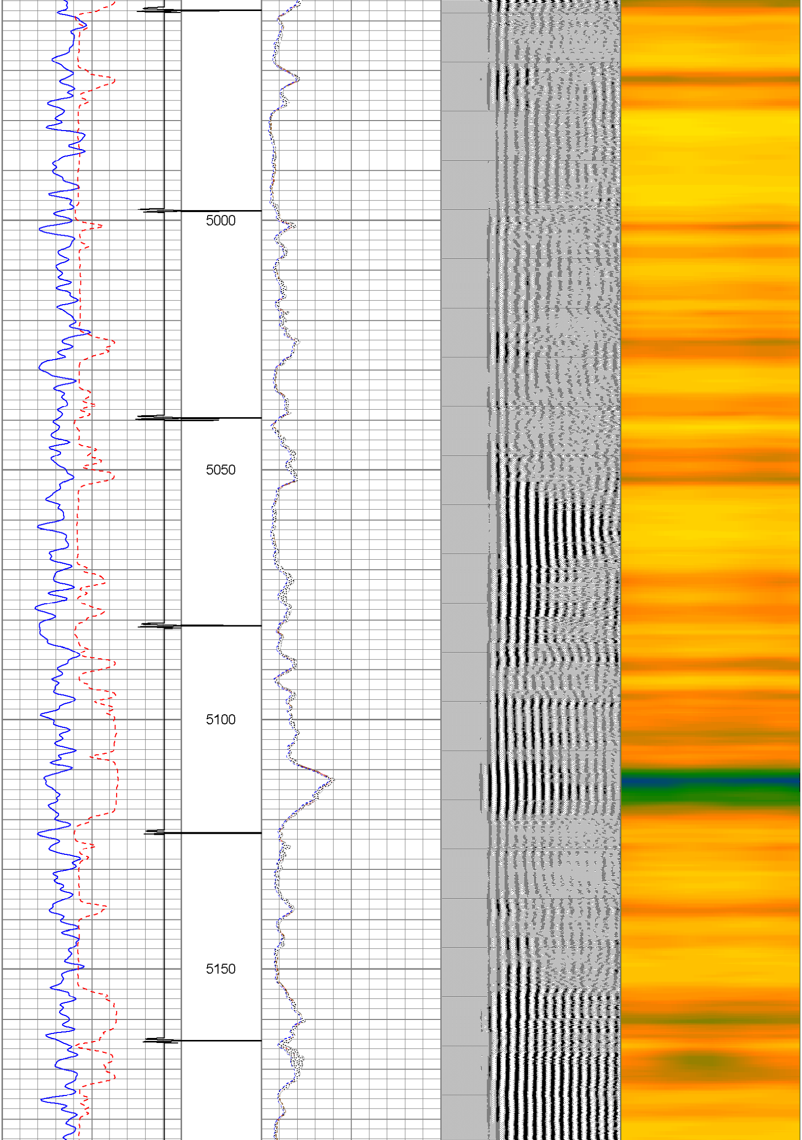
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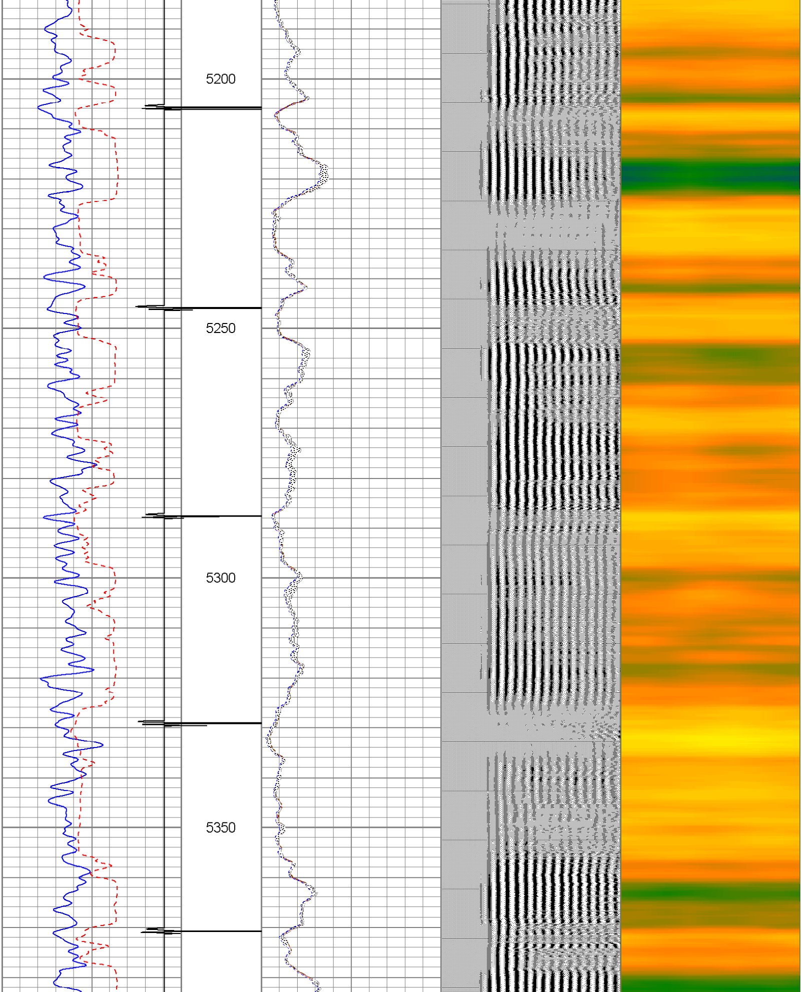
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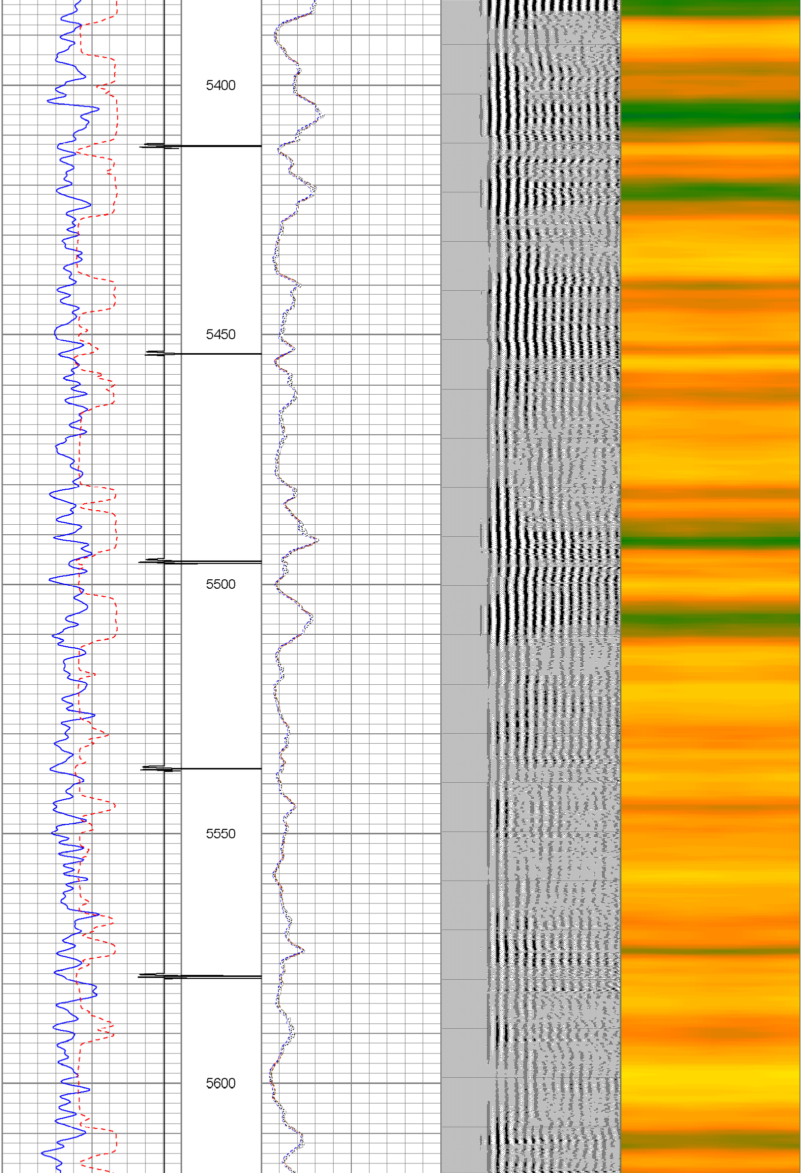
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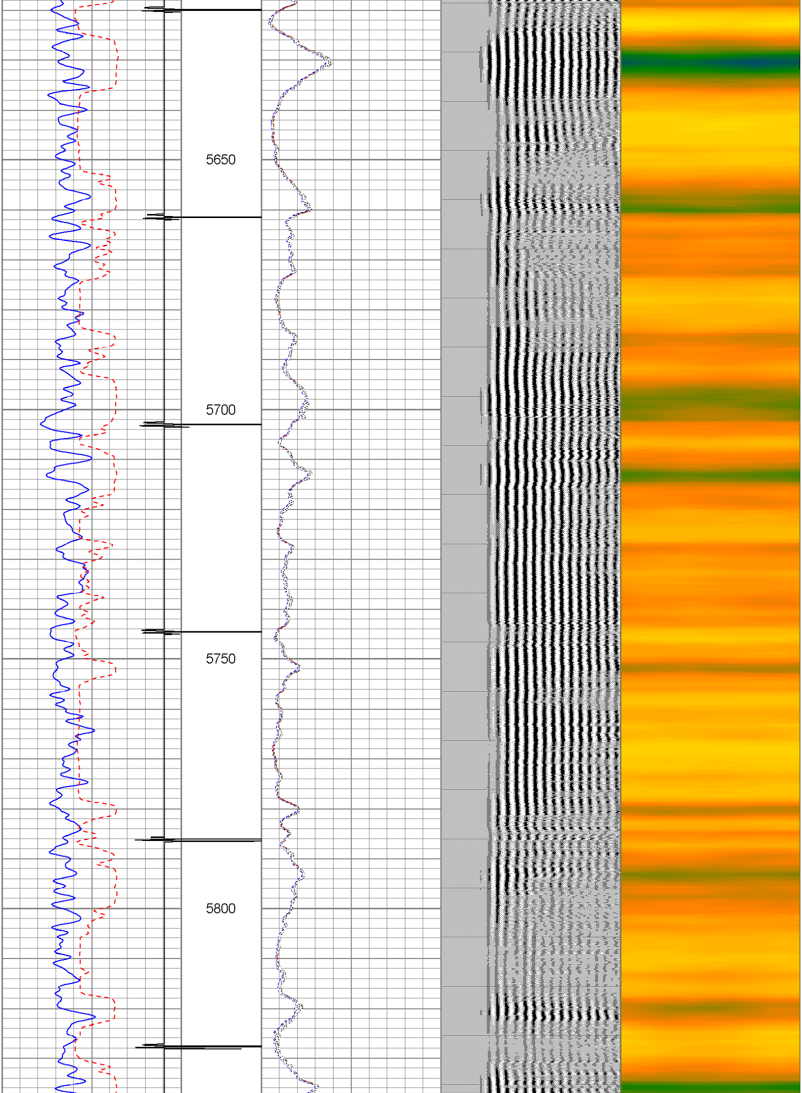
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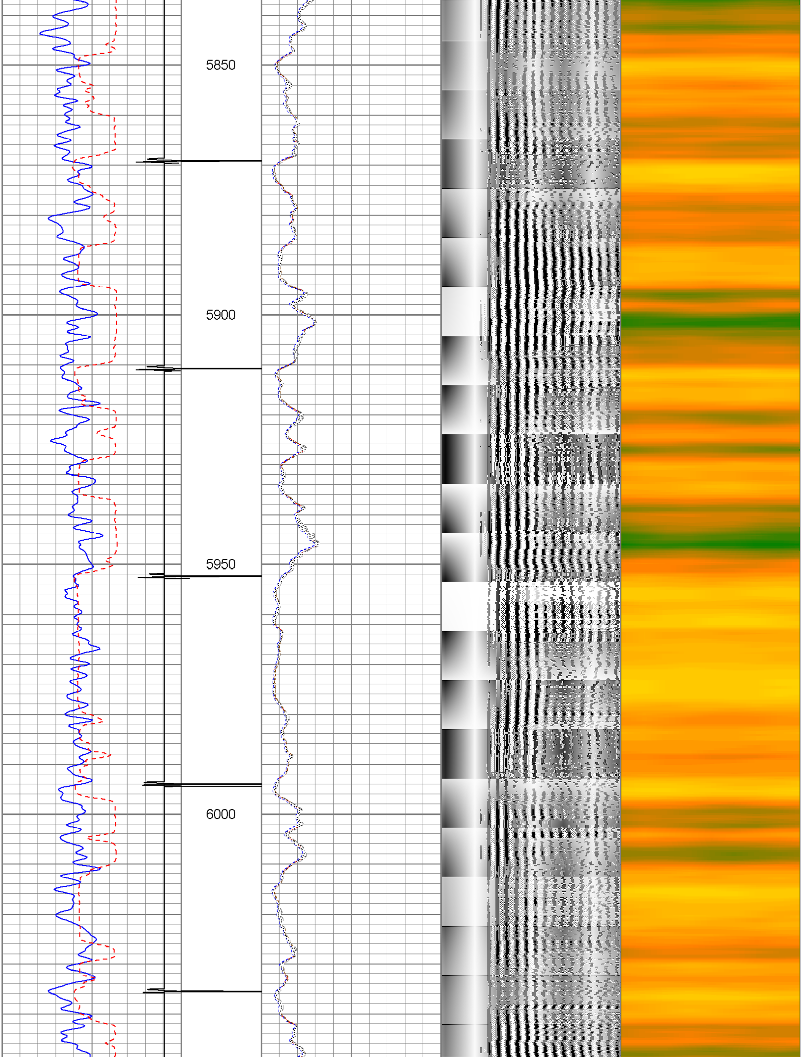
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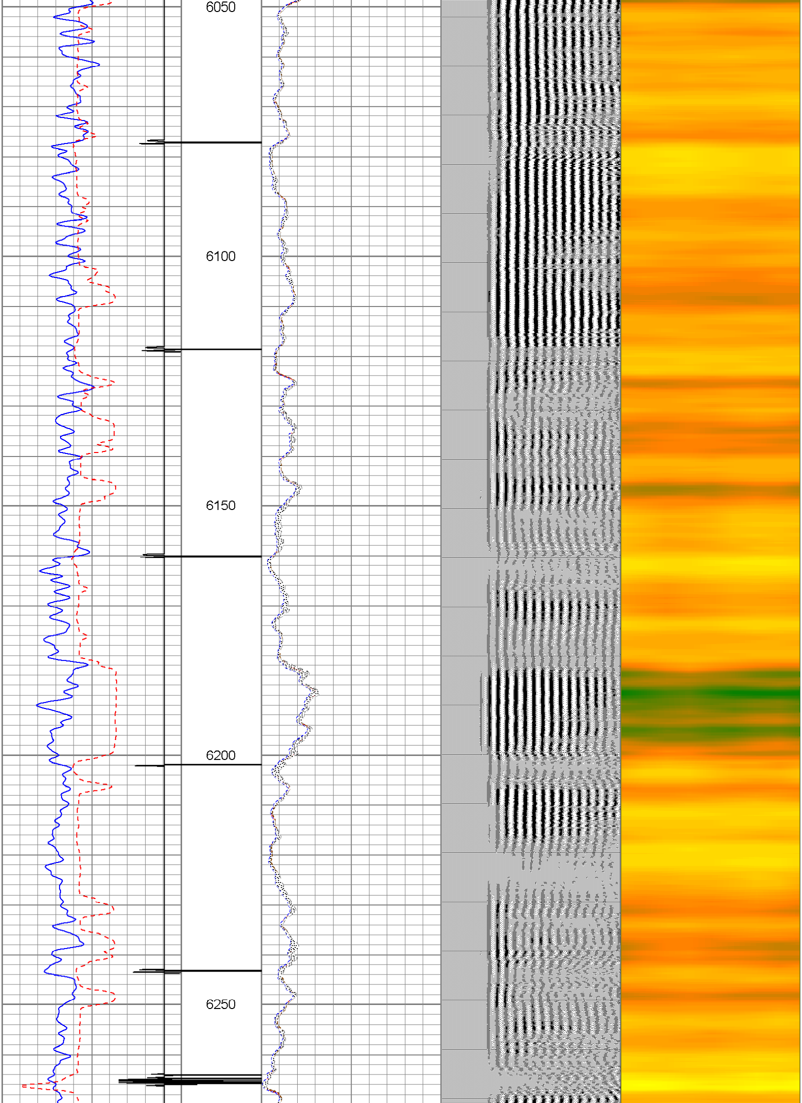
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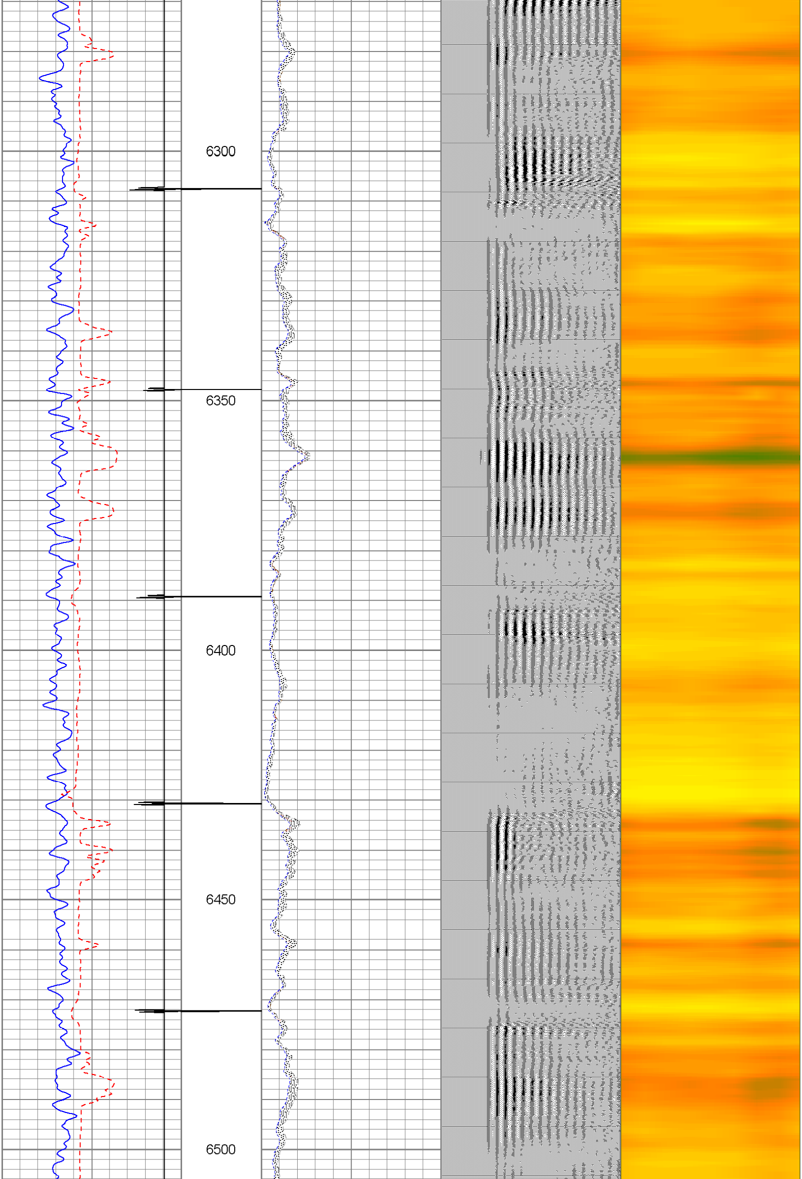
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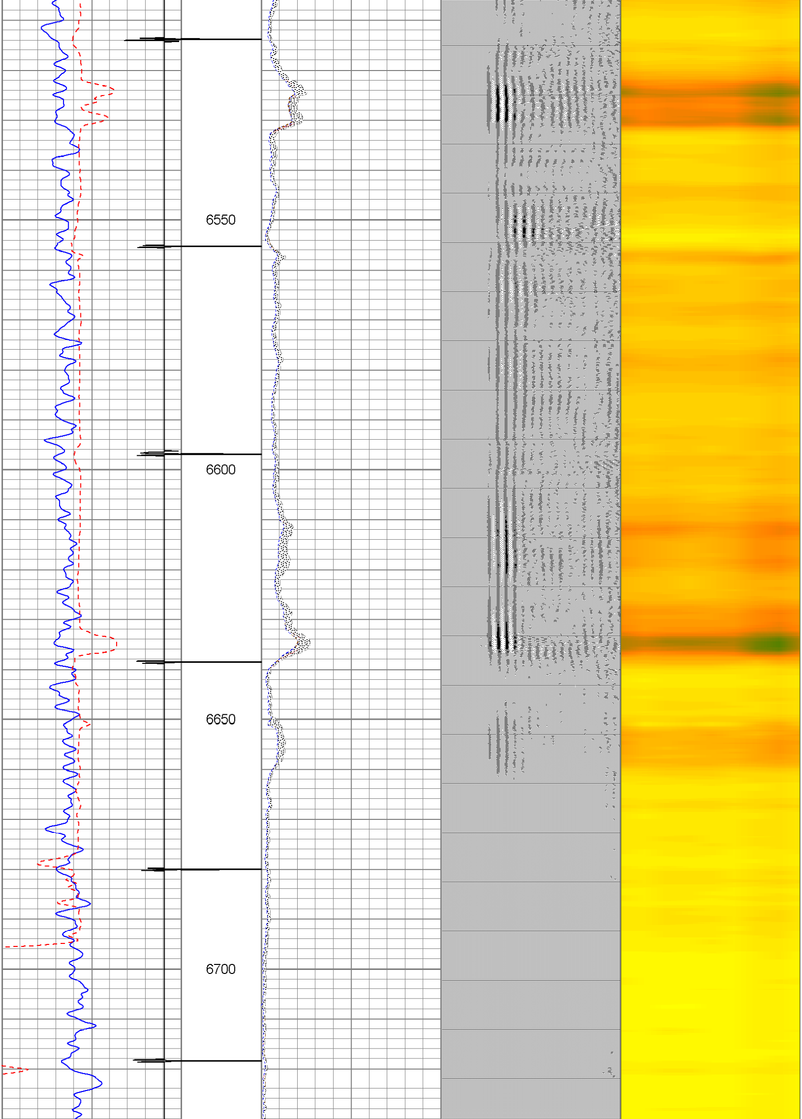
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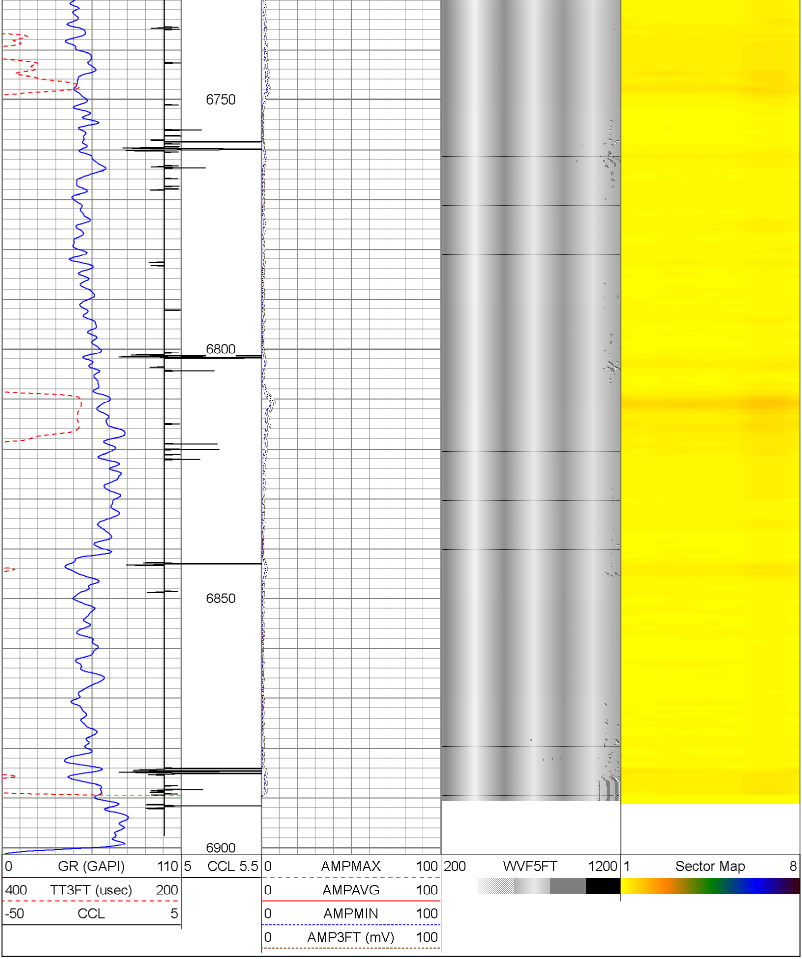
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400 TT3FT (usec) 200
-50 CCL 5
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0 AMPMAX 100
0 AMPAVG 100
0 AMPMIN 100
0 AMP3FT (mV) 100
200 WVF5FT 1200
1 Sector Map 8