C&J ENERGY SERVICES

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

Company	PDC Energy
Well	Red Cloud 1N
Field	Wattenberg
County	Weld
State	CO

Company PDC Energy

Well Red Cloud 1N

Field Wattenberg

County Weld State CO

Location: API #: 05-123-49450

1530' FNL & 644' FEL
SE / NE

SEC 1 TWP 4N RGE 64W

Other Services

Permanent Datum
Log Measured From
Drilling Measured From

Elevation

Elevation
K.B.
D.F.
G.L.

Date	August 29, 2019
Run Number	1
Depth Driller	16,793'
Depth Logger	6700'
Bottom Logged Interval	6700'-0'
Top Log Interval	
Casing Size	
Type Fluid	Water
Max. Recorded Temp.	232°
Estimated Cement Top	
Time Well Ready	
Time Logger On Bottom	
Unit Number	
Tool Size / ID Number	Probe 2-3/4" Radii
Location	WCR61+50,s2/10,w
Recorded By	Meisner
Witnessed By	B. Myers

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

Red Cloud 11 Well Pad

<WEST> O O O O O O O O O X O <EAST>

X = Red Cloud 1N

Database File: pdcr1n.db
Dataset Pathname: pass3
Presentation Format: sector2
Dataset Creation: Thu Aug 29 07:47:06 2019 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 160 400 TT3FT (usec) 200 -50 CCL 5	8 CCL 8.5	0 AMPMAX 100 0 AMPAVG 100 0 AMPMIN 100 0 AMP3FT (mV) 100	200 WVF5FT 1200 1 Sector Map 8

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Database File: pdcr1n.db
Dataset Pathname: pass2
Presentation Format: sector2
Dataset Creation: Thu Aug 29 07:02:39 2019 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

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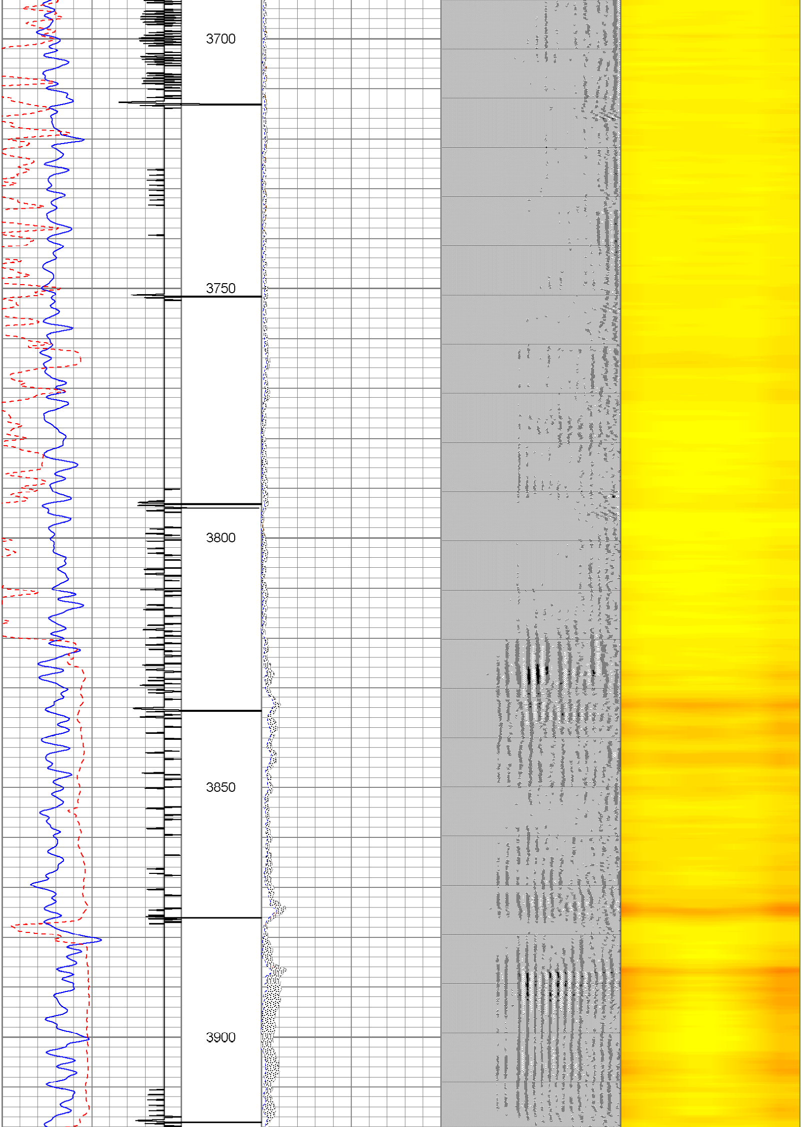
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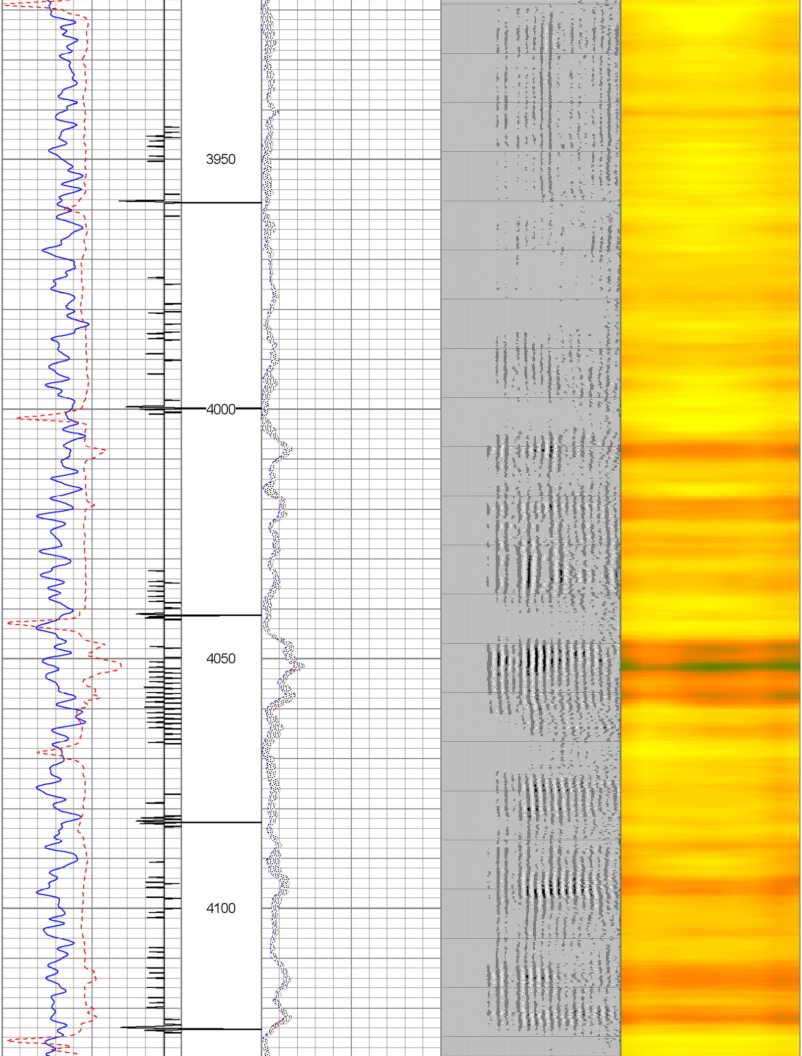
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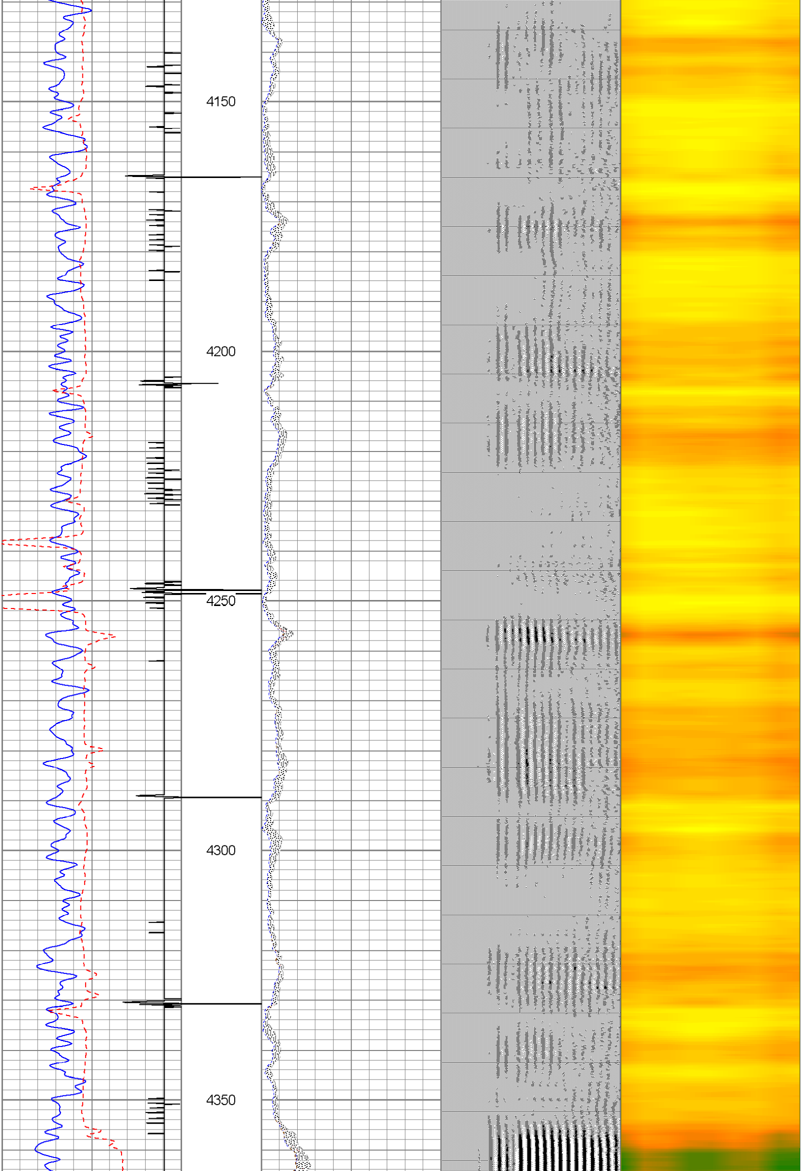
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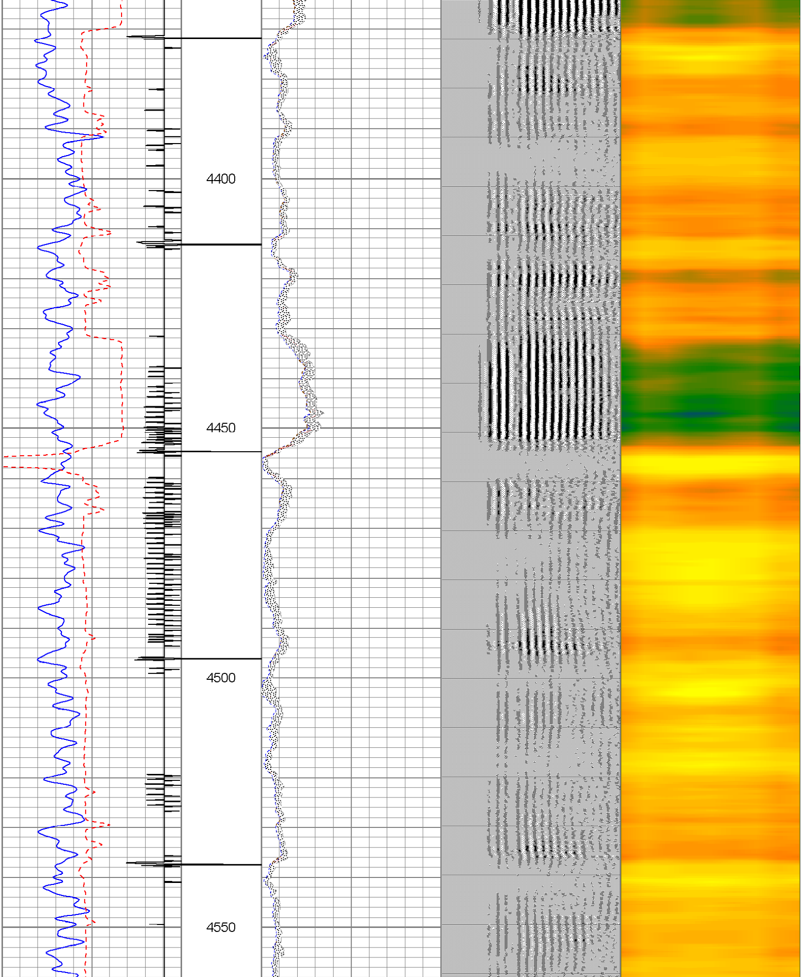
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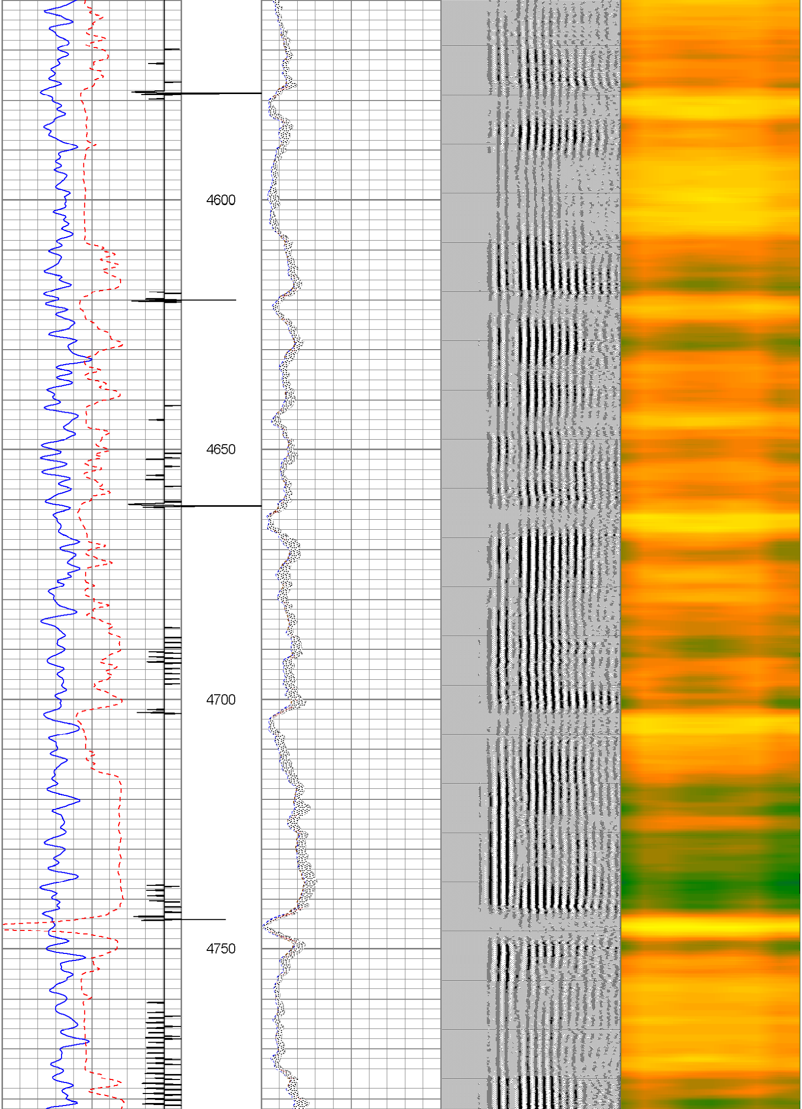
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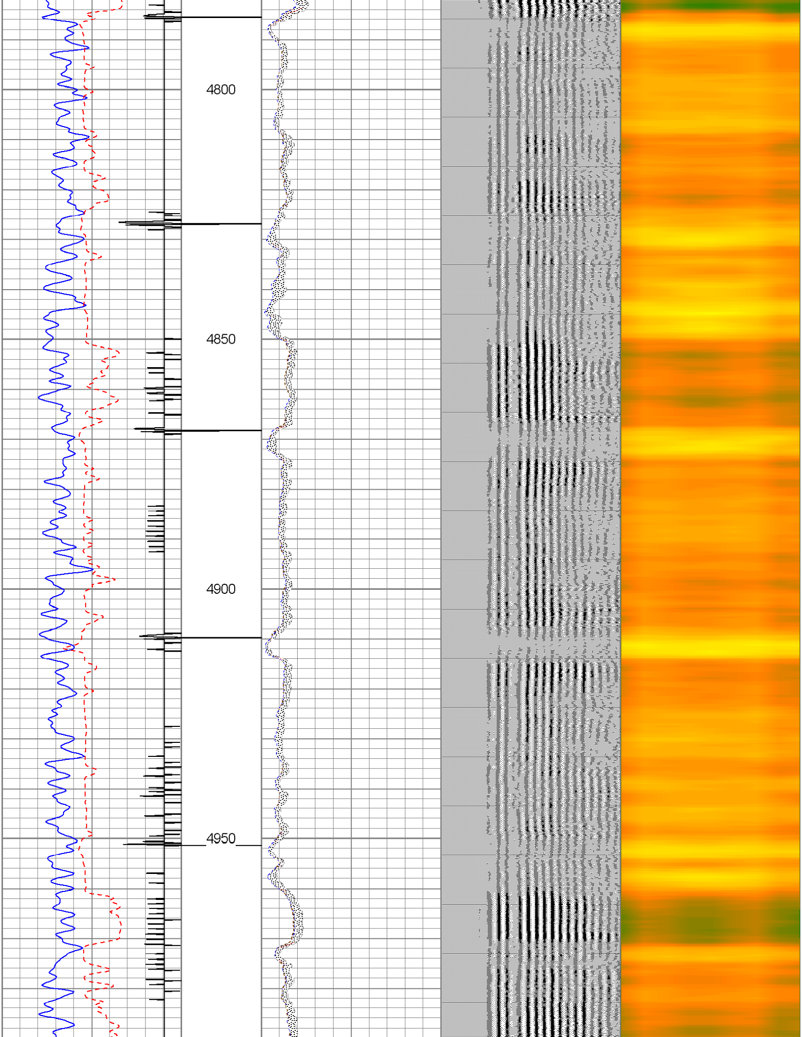
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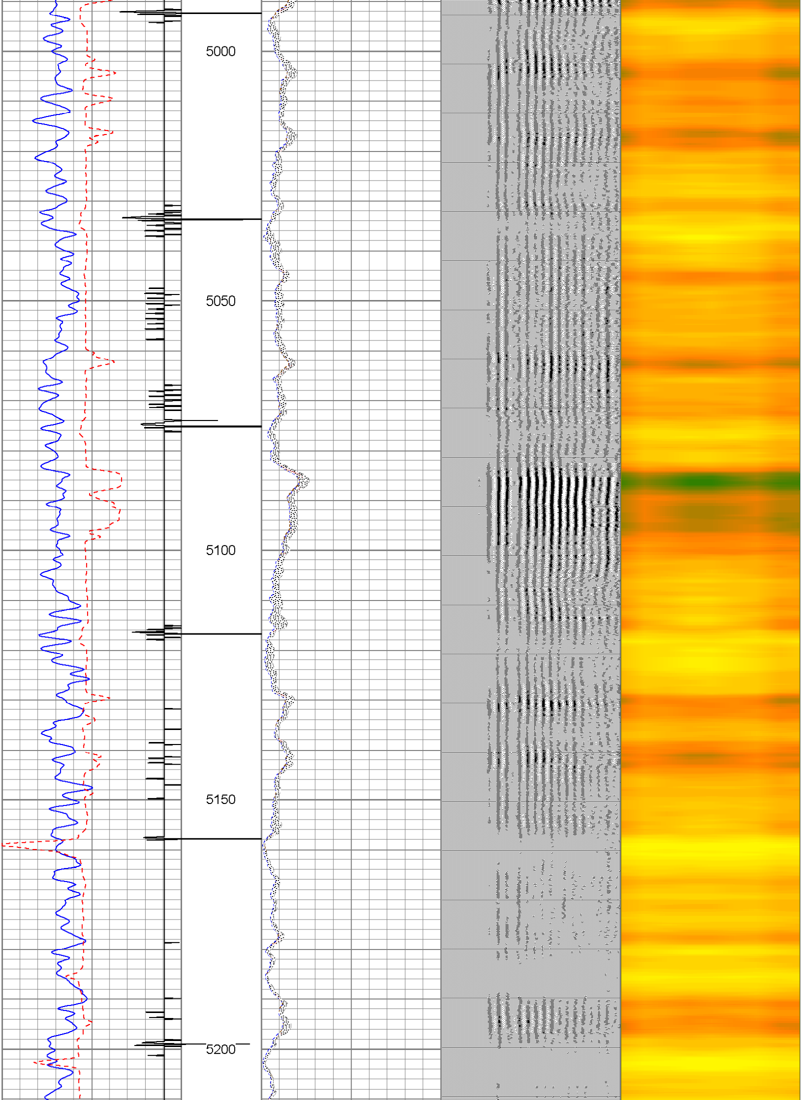
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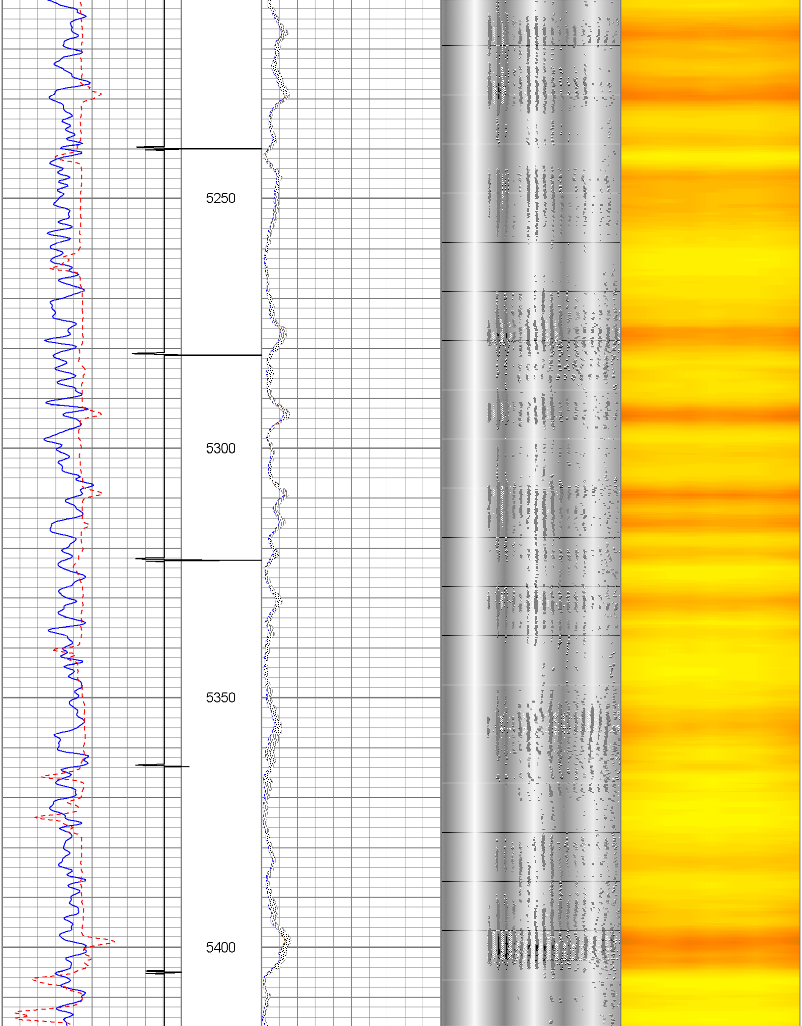
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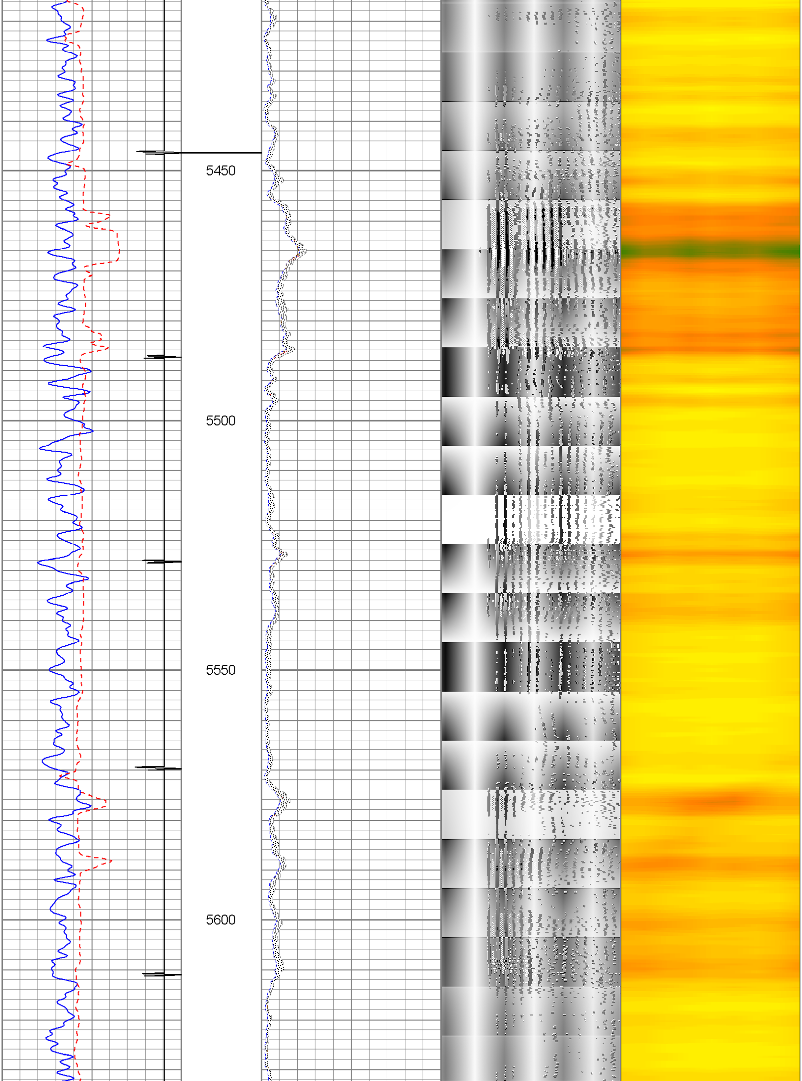
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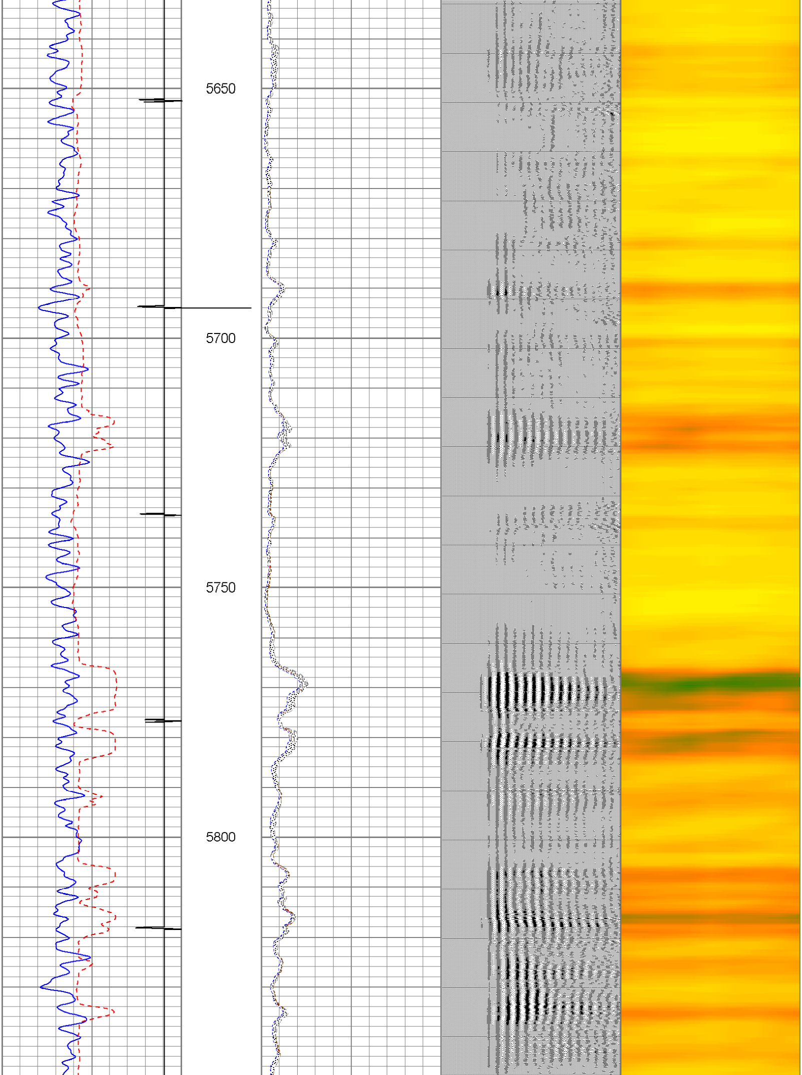
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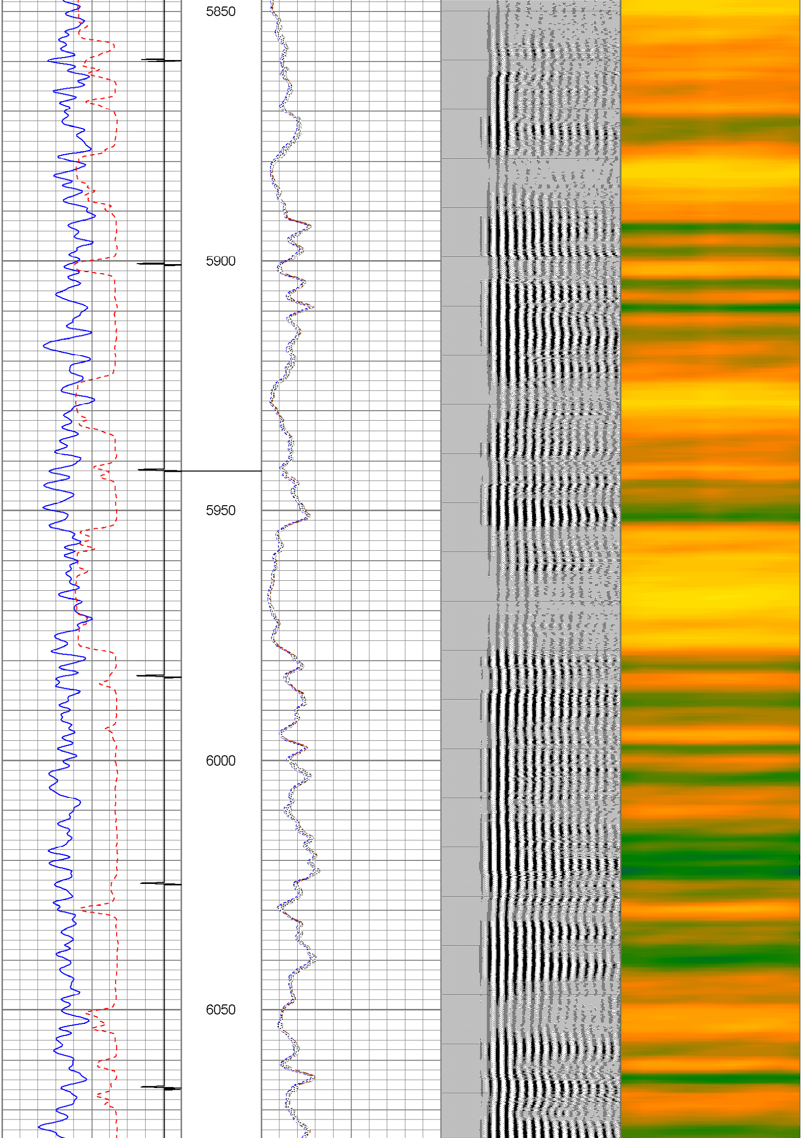
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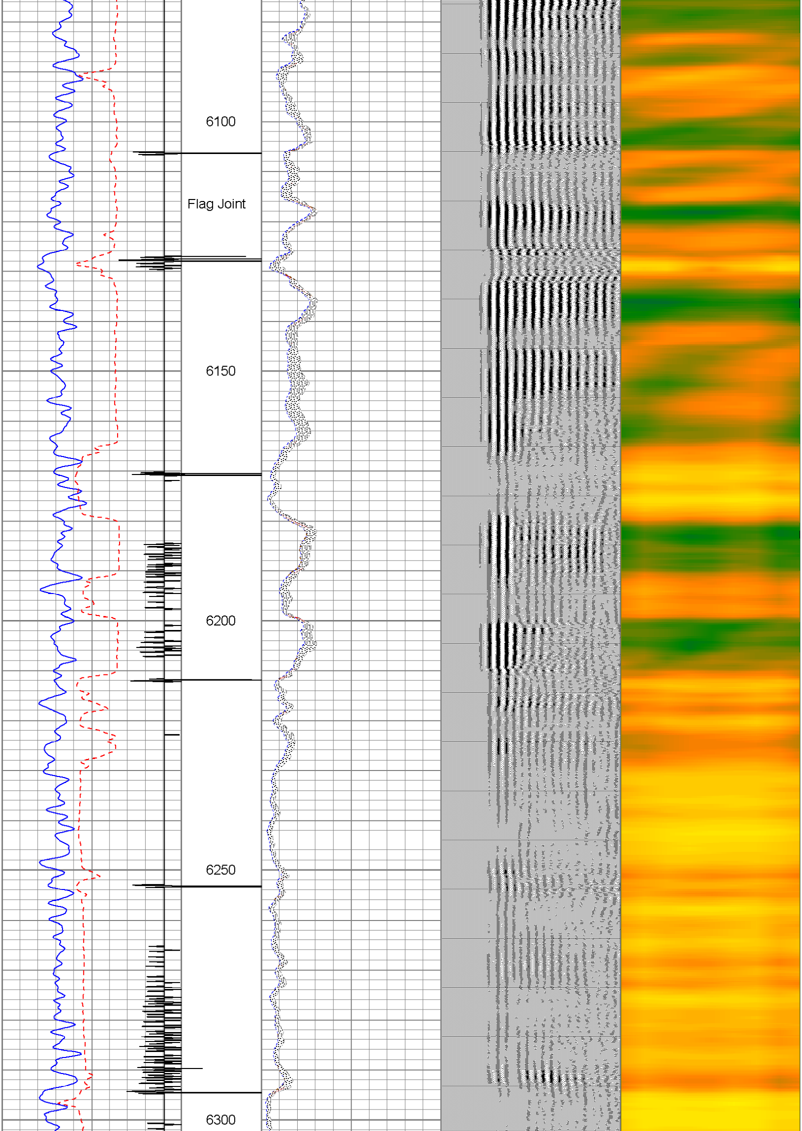
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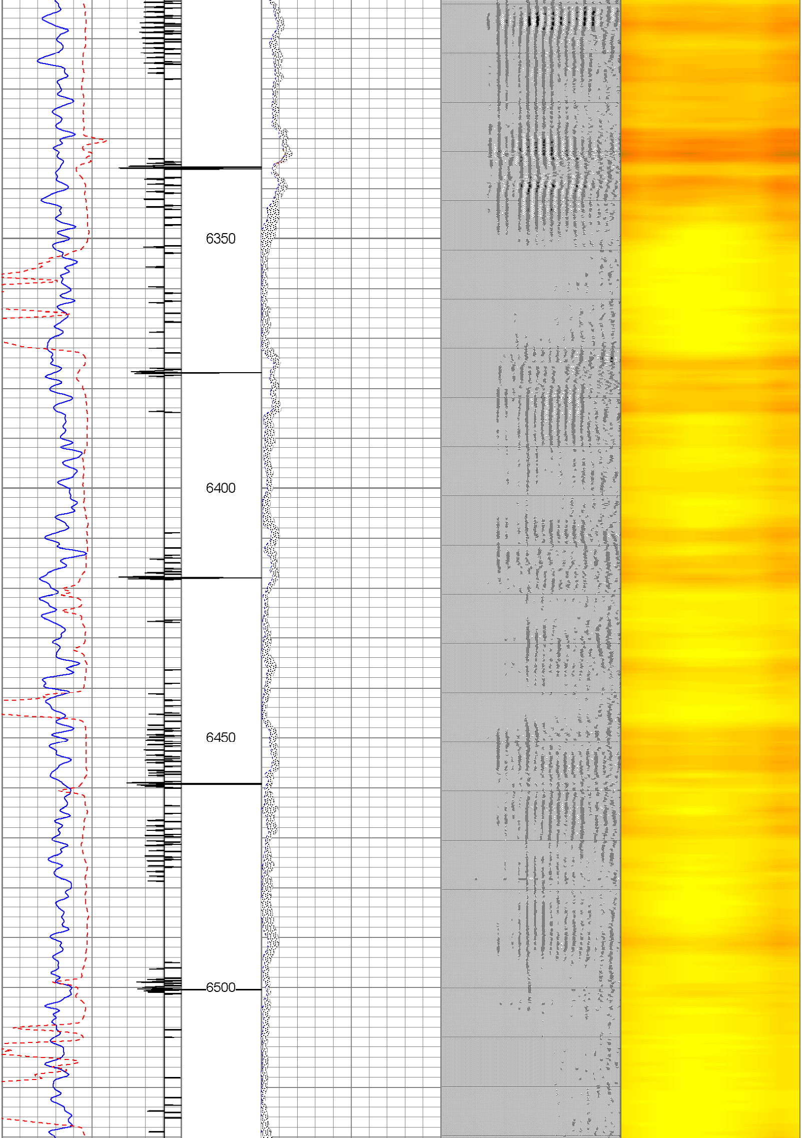
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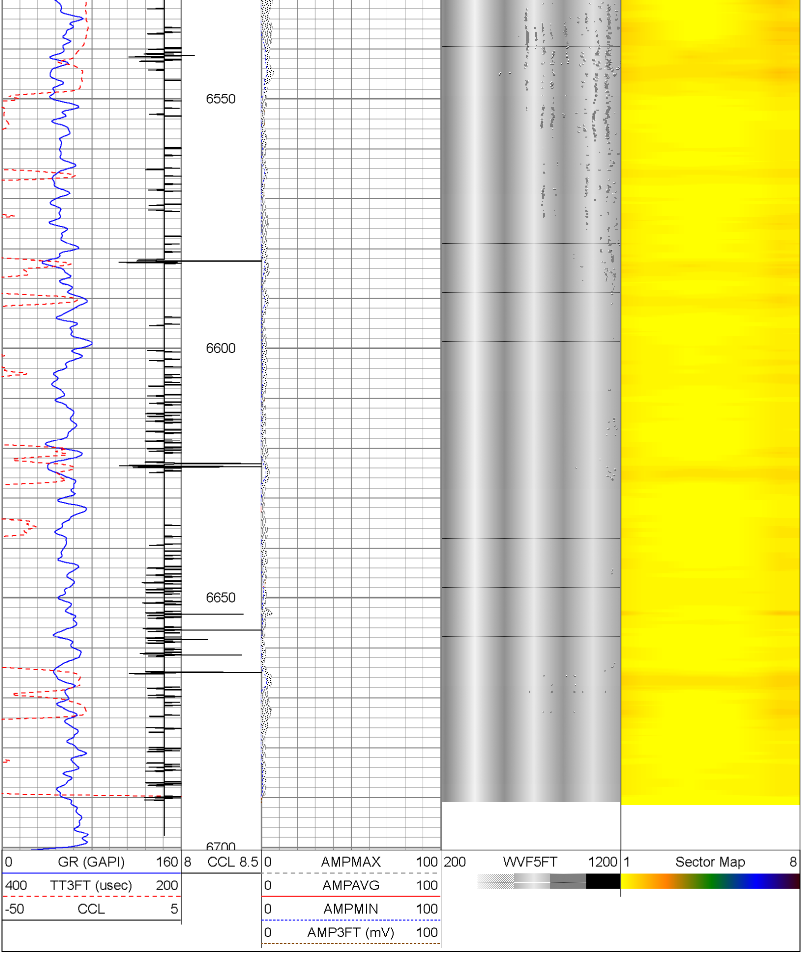
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1 Sector Map 8