PIONEER
Pioneer Energy Services

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Company	EnCana Oil & Gas (USA) Inc.
Well	Billings 2B-18H
Field	Wattenberg
County	Weld
State	Colorado
Country	USA

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Well Billings 2B-18H
Field Wattenberg
County Weld
State Colorado Country USA

Location: API #: 05-123-36528-0000
1246' FNL & 230' FWL
NWNW
SEC 18 TWP 3N RGE 68W

Other Services
None

Permanent Datum	GL	Elevation 5197	Elevation K.B. 5229 D.F. 5228 G.L. 5197
Log Measured From	KB		
Drilling Measured From	KB		

Date	February 7, 2014
Run Number	1
Depth Driller	14390'
Depth Logger	7585'
Bottom Logged Interval	7585'
Top Log Interval	0'
Open Hole Size	8-3/4"
Type Fluid	Drilling Mud
Density / Viscosity	10.7 / 48
Max. Recorded Temp.	NA
Estimated Cement Top	700'
Time Well Ready	0145
Time Logger on Bottom	0255
Equipment Number	49
Location	Brighton, CO
Recorded By	Clint Christensen
Witnessed By	Robert Escojeda

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	7"	26 lbs	0	7622'
Liner				

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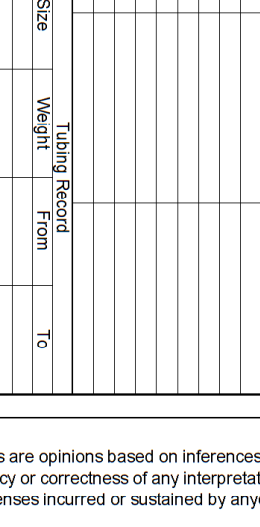
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

Thank You for using Pioneer Energy Services
Patterson Drilling Rig 326

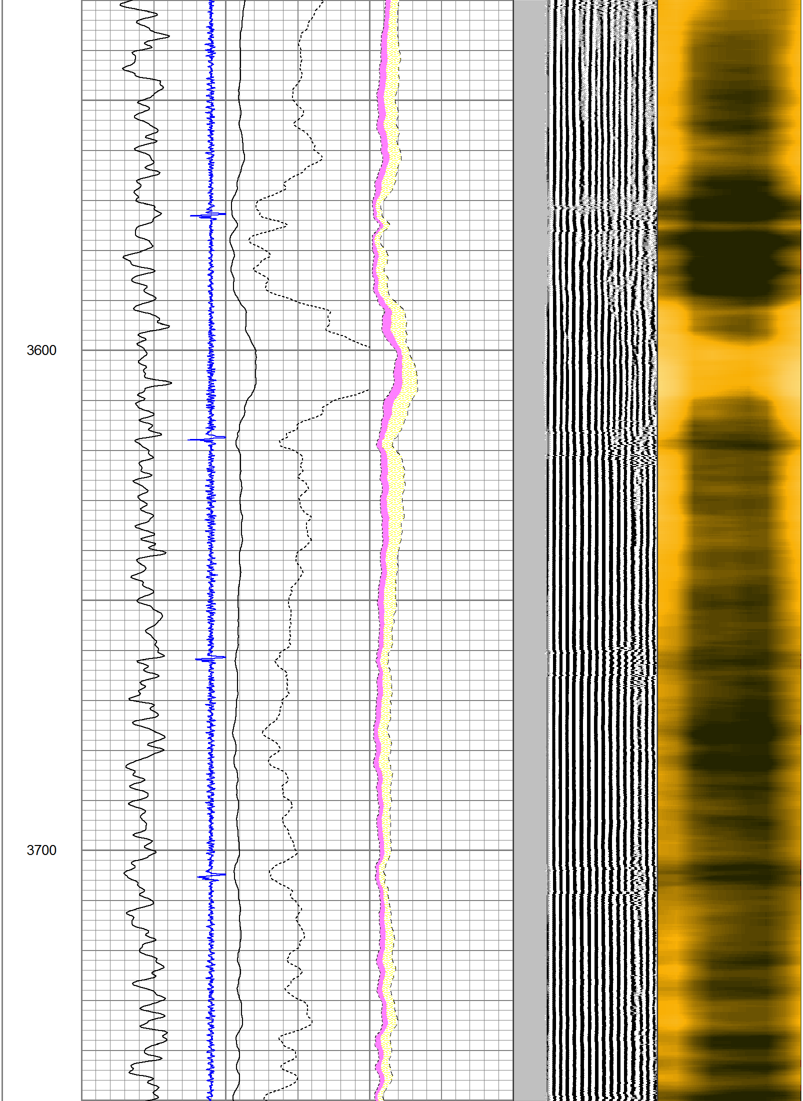
Measuring Wheel Frozen at Depth we Paused at for Rig Down!!



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT #2 -A (1)	2.83	2.75	20.00
HEADVOLT	16.08				
IntTemp	14.66				
WVF3FT	11.41	RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.41				
WVFS1	11.41				
WVFS2	11.41				
WVFS3	11.41				
WVFS4	11.41				
WVFS5	11.41				
WVFS6	11.41				
WVFS7	11.41				
WVFS8	11.41				
WVF5FT	10.41				
		CENT-A (1)	2.83	2.75	20.00
CCL	3.92				
GR	1.13	GR-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00

Dataset: 13456.db: field/well/run1/pass4
Total Length: 18.91 ft
Total Weight: 230.00 lb
O.D. 2.75 in

Database File: 13456.db
Dataset Pathname: pass4.1
Presentation Format: scbl02
Dataset Creation: Fri Feb 07 04:58:06 2014 by Calc 0
Charted by: Depth in Feet scaled 1:240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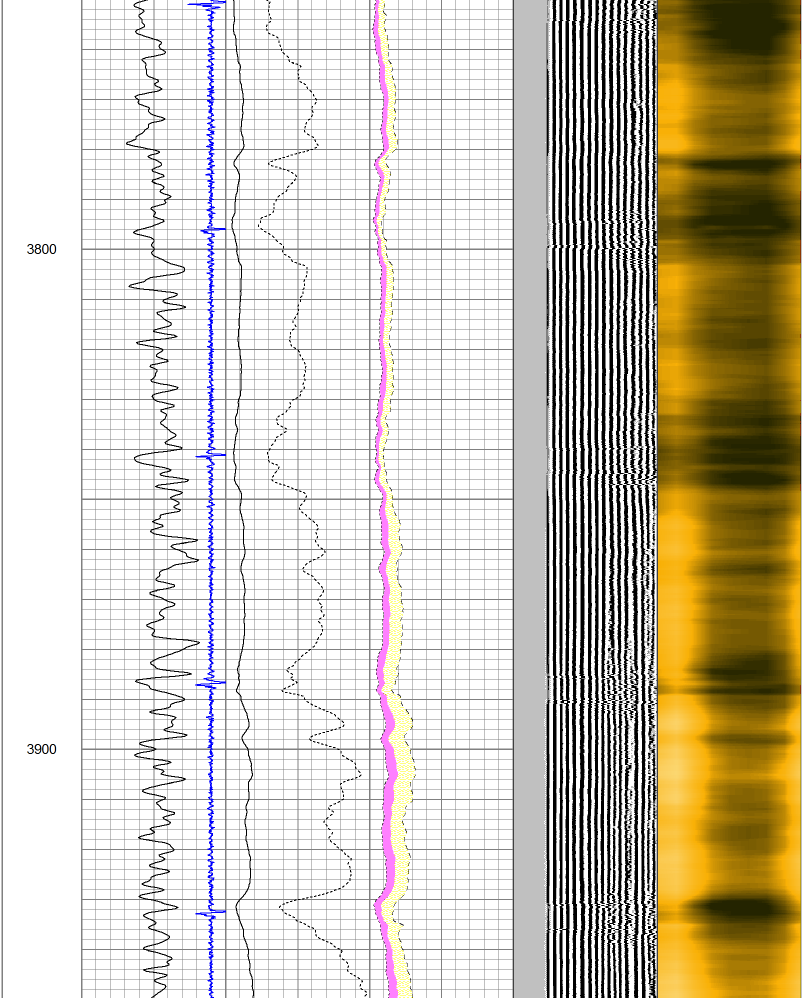
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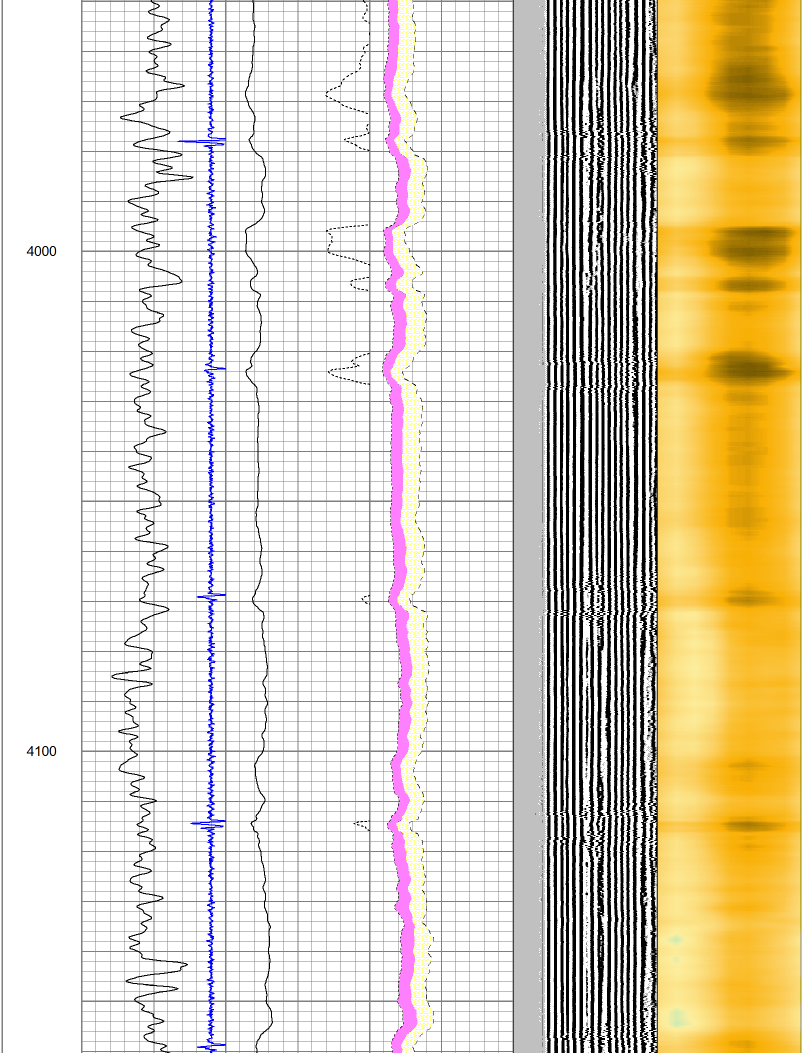
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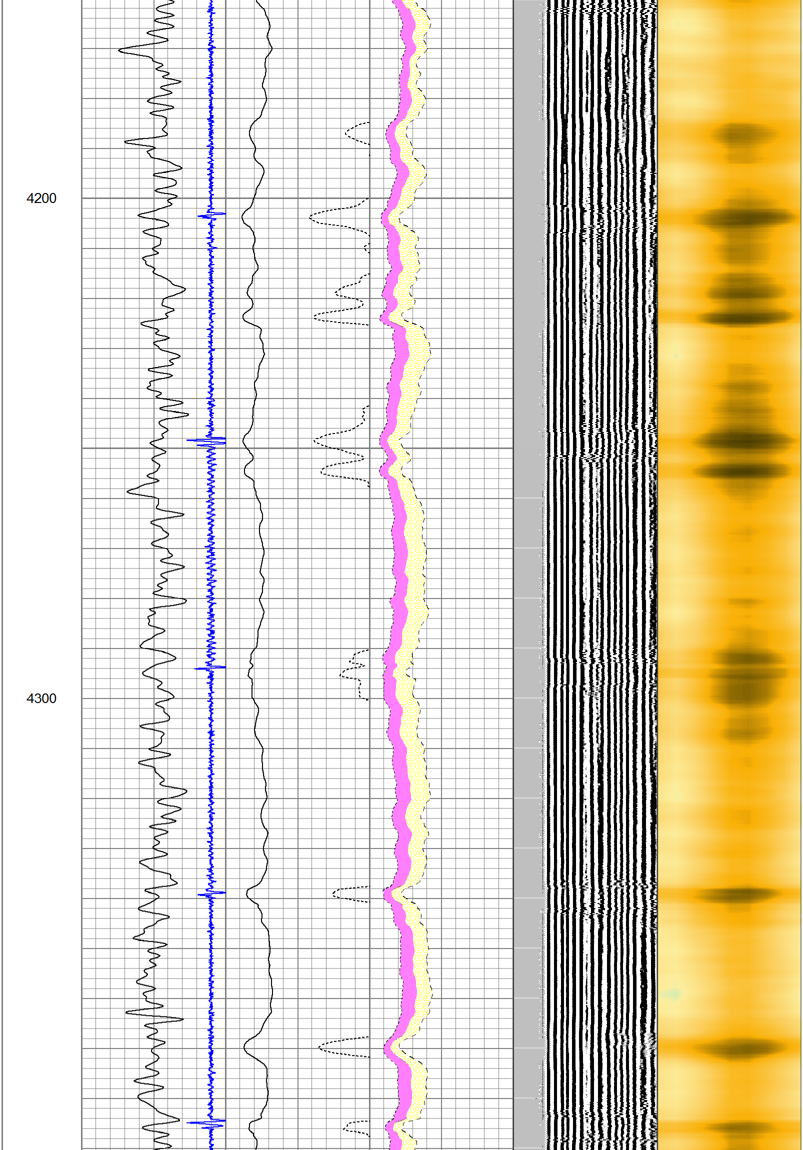
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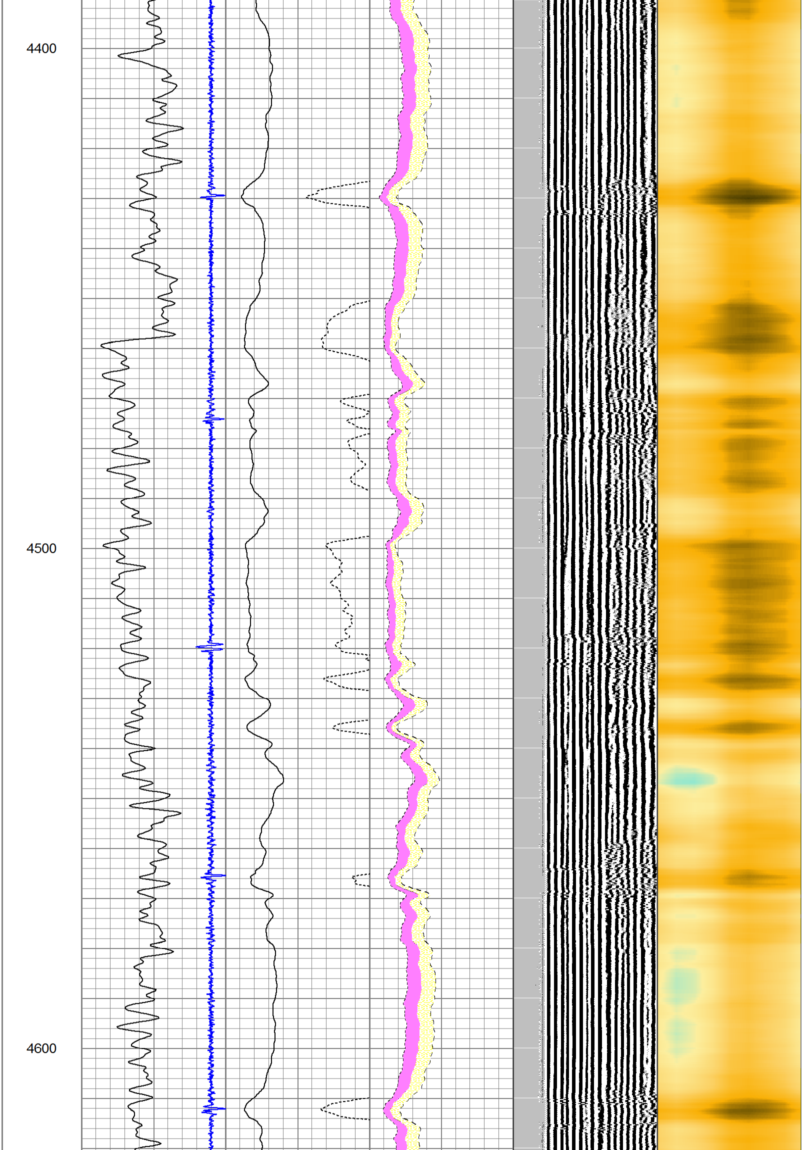
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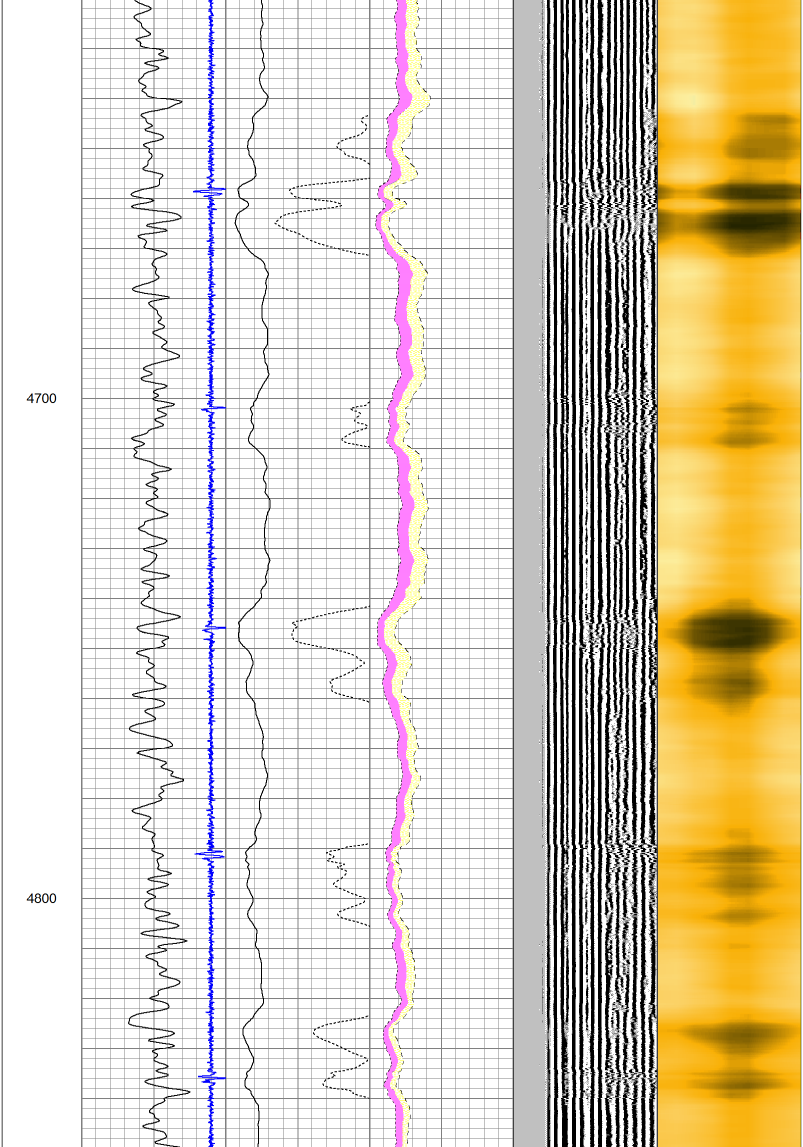

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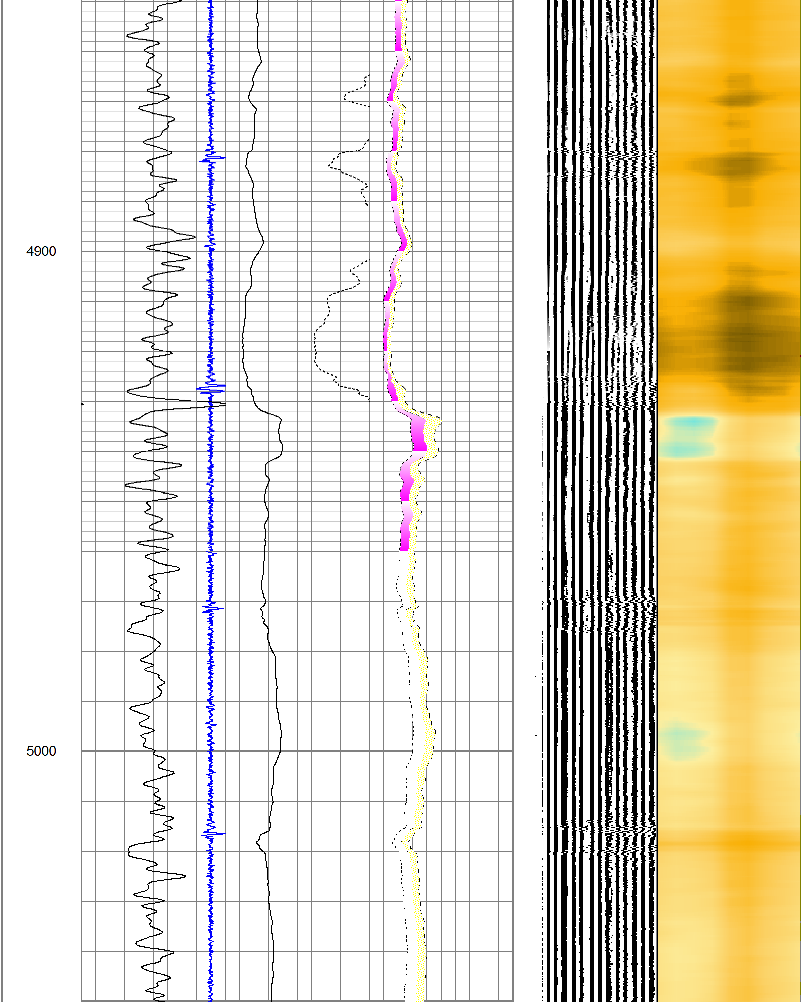
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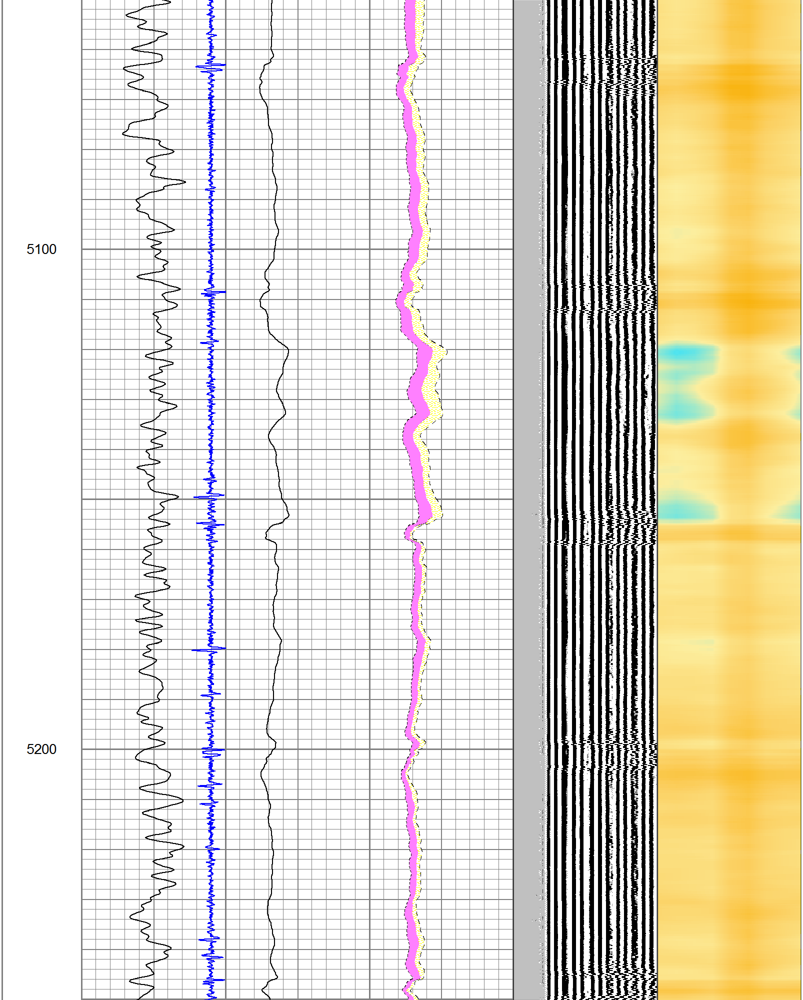

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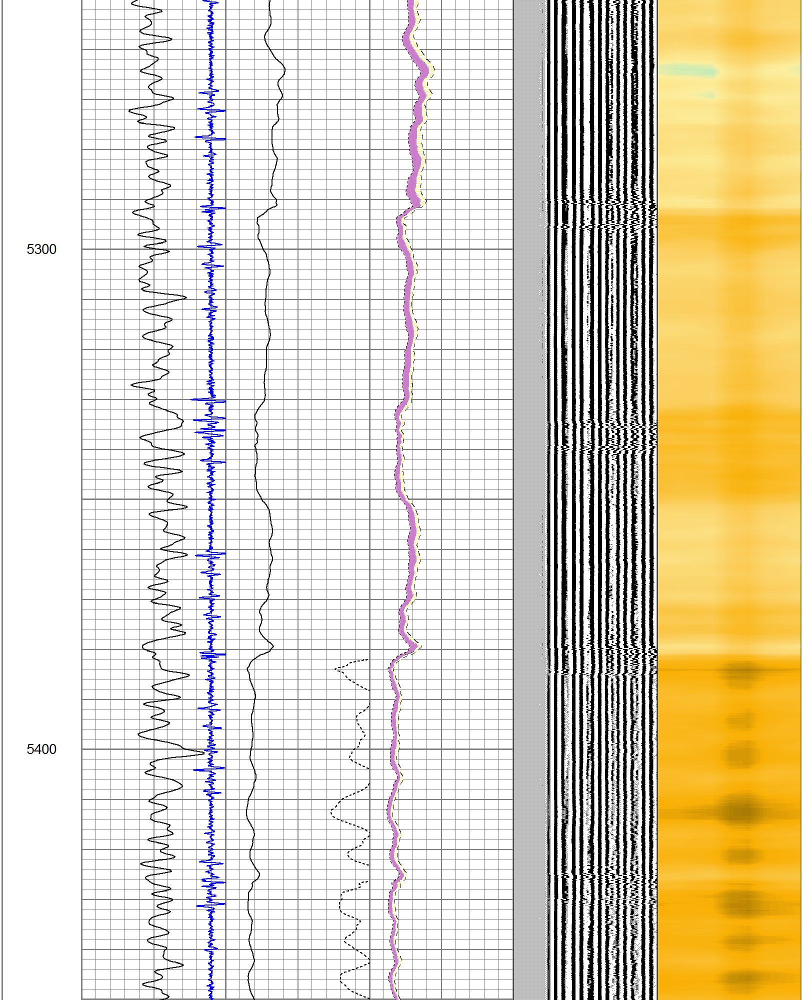
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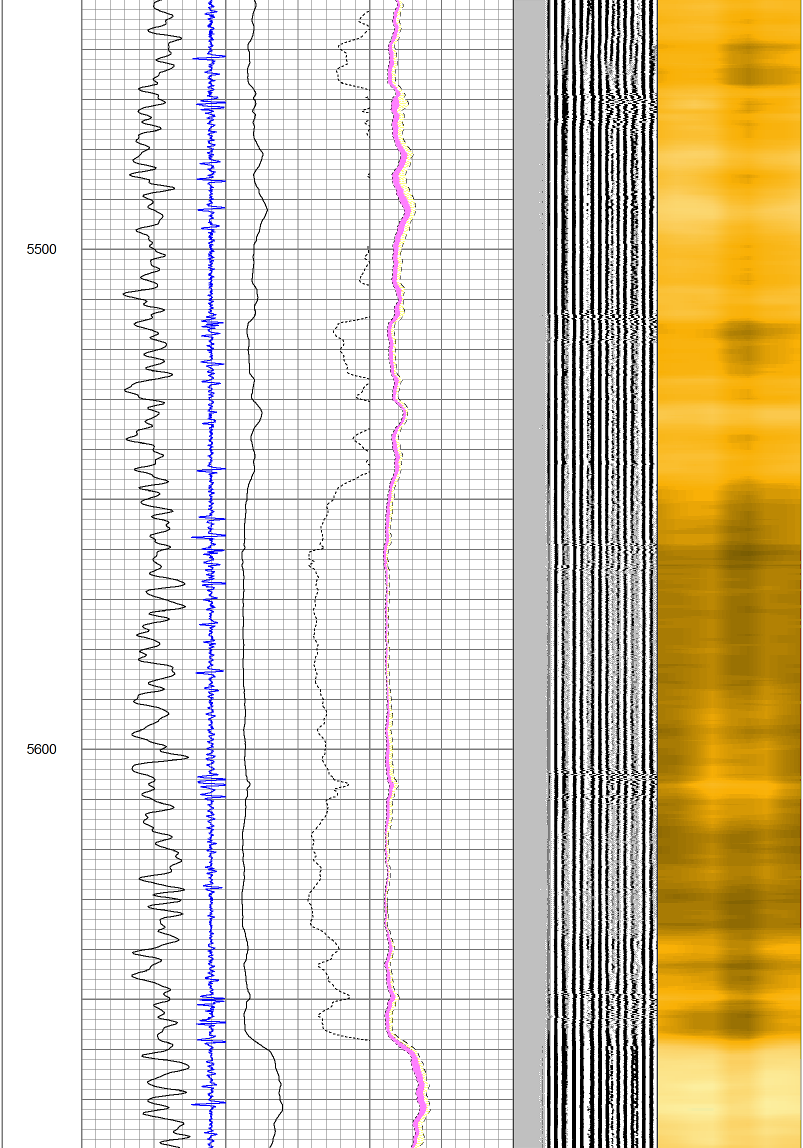
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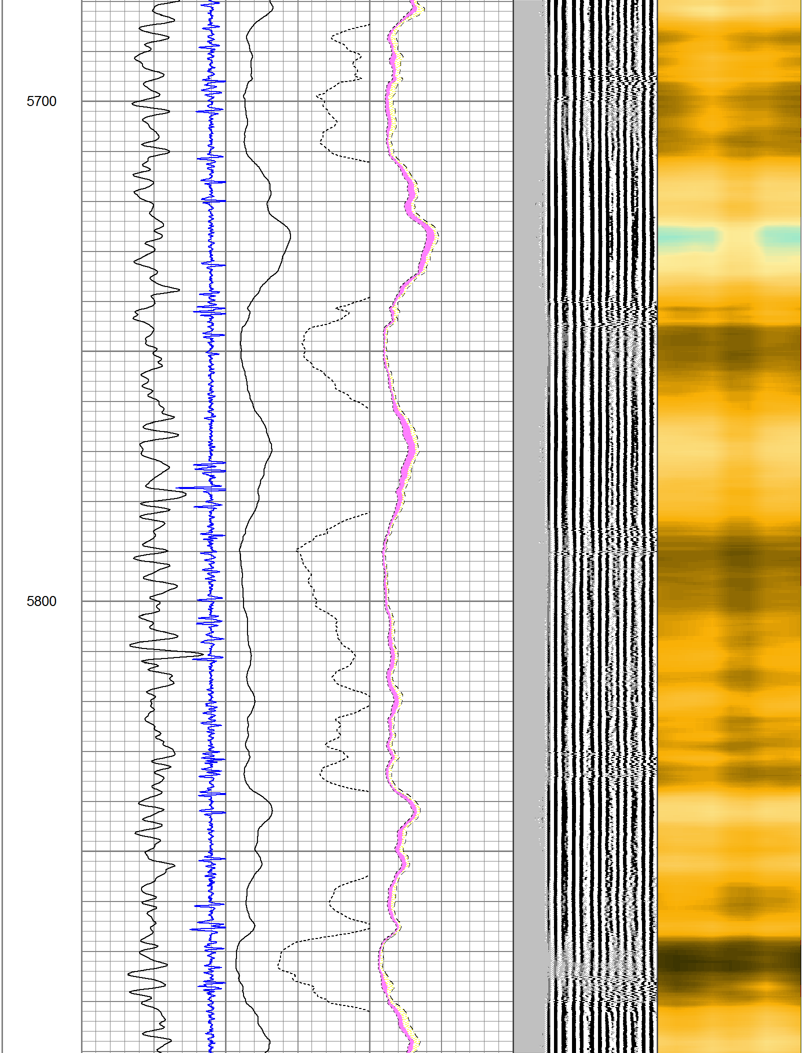
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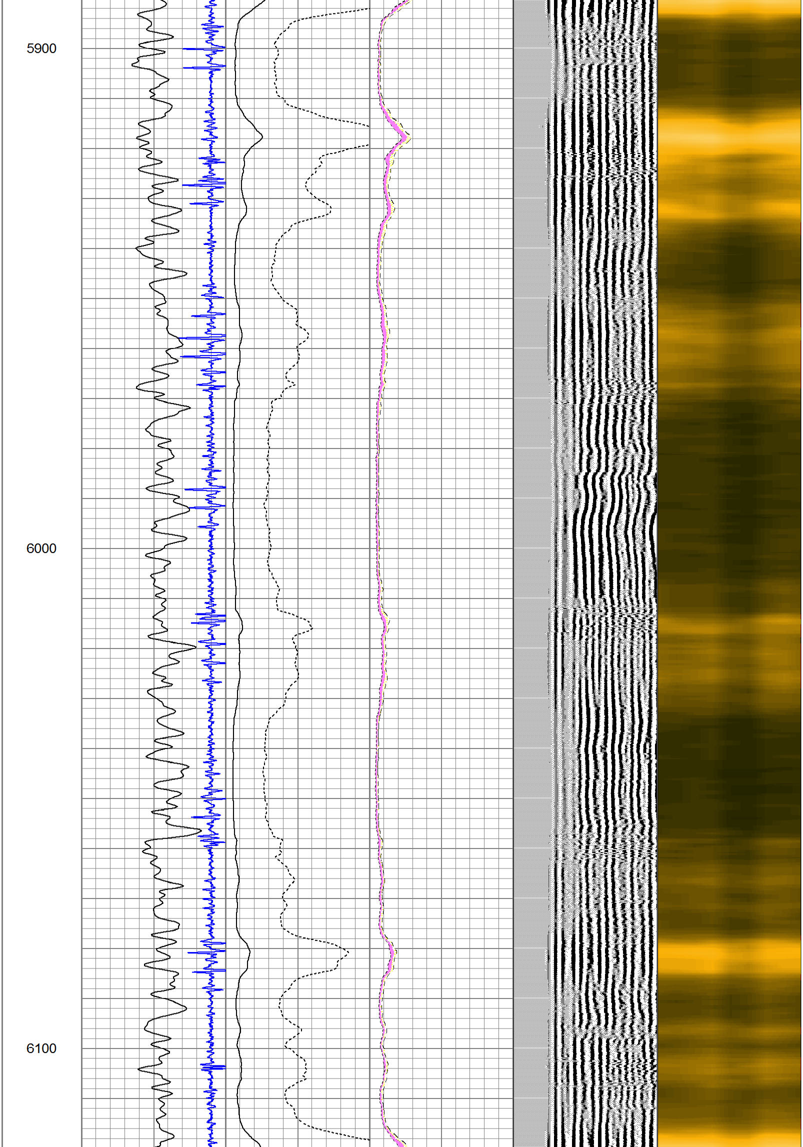
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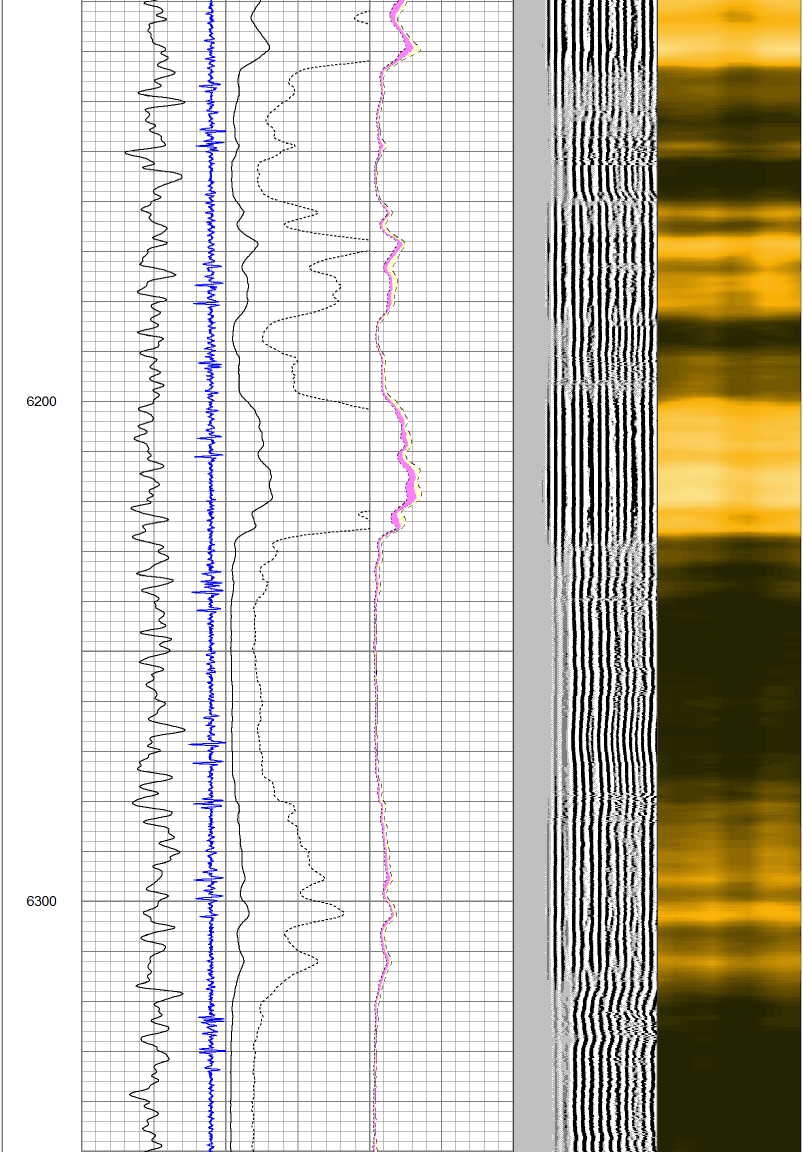
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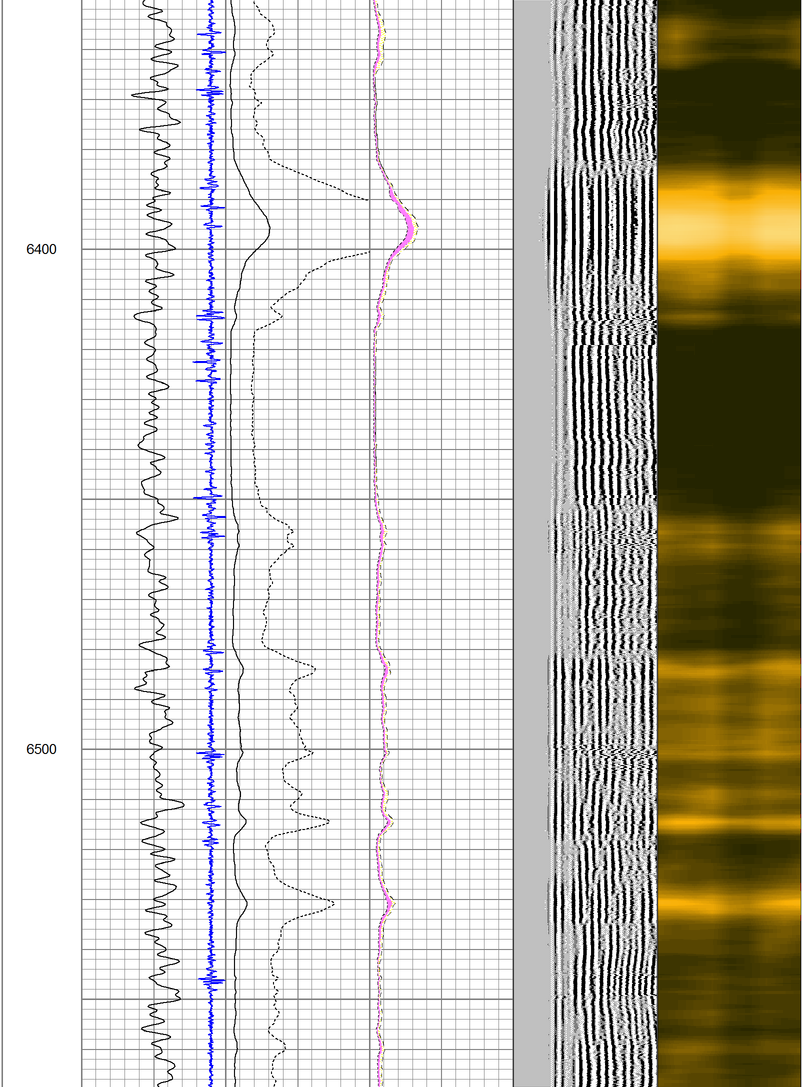
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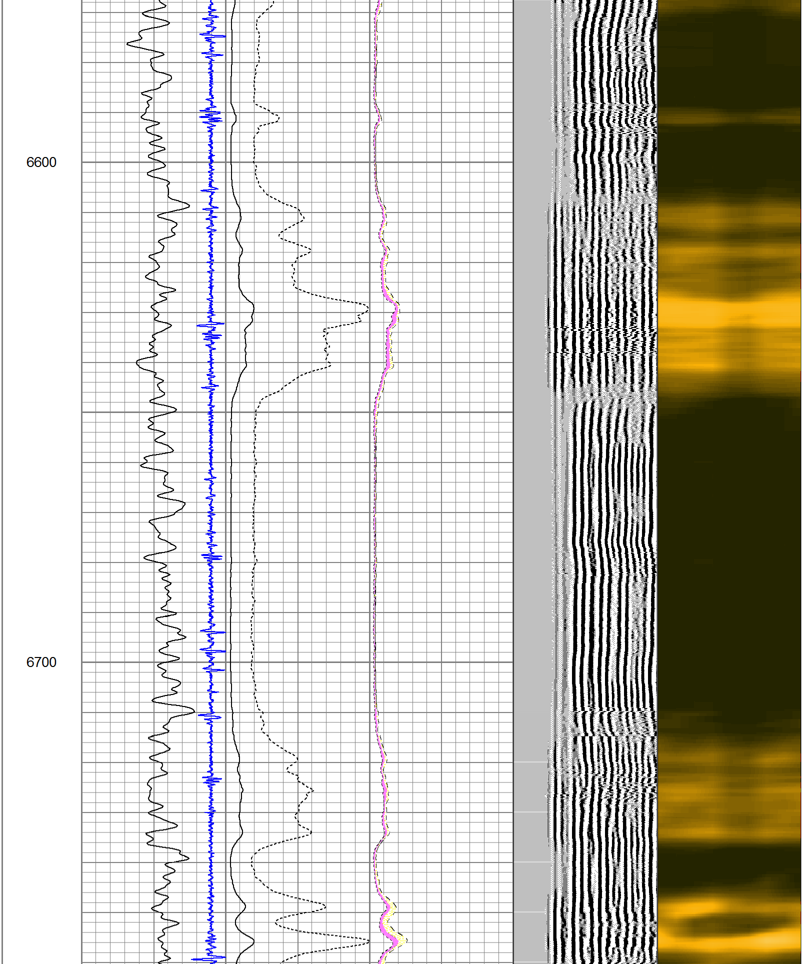
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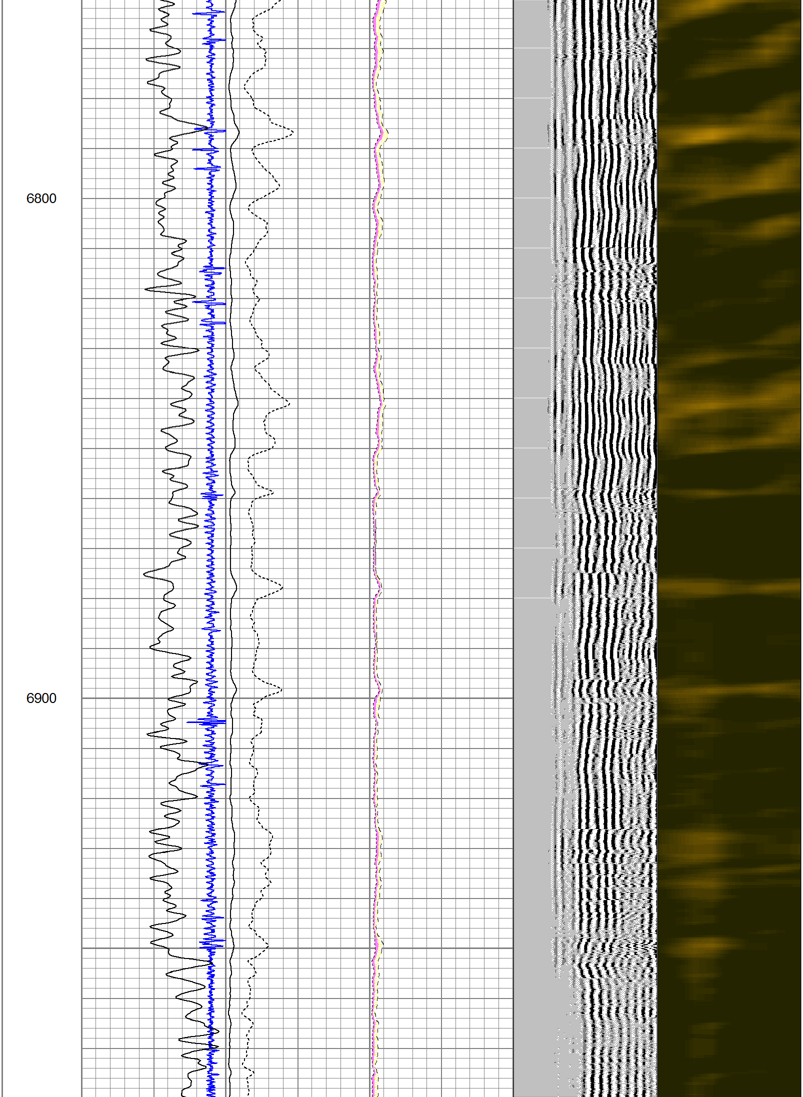
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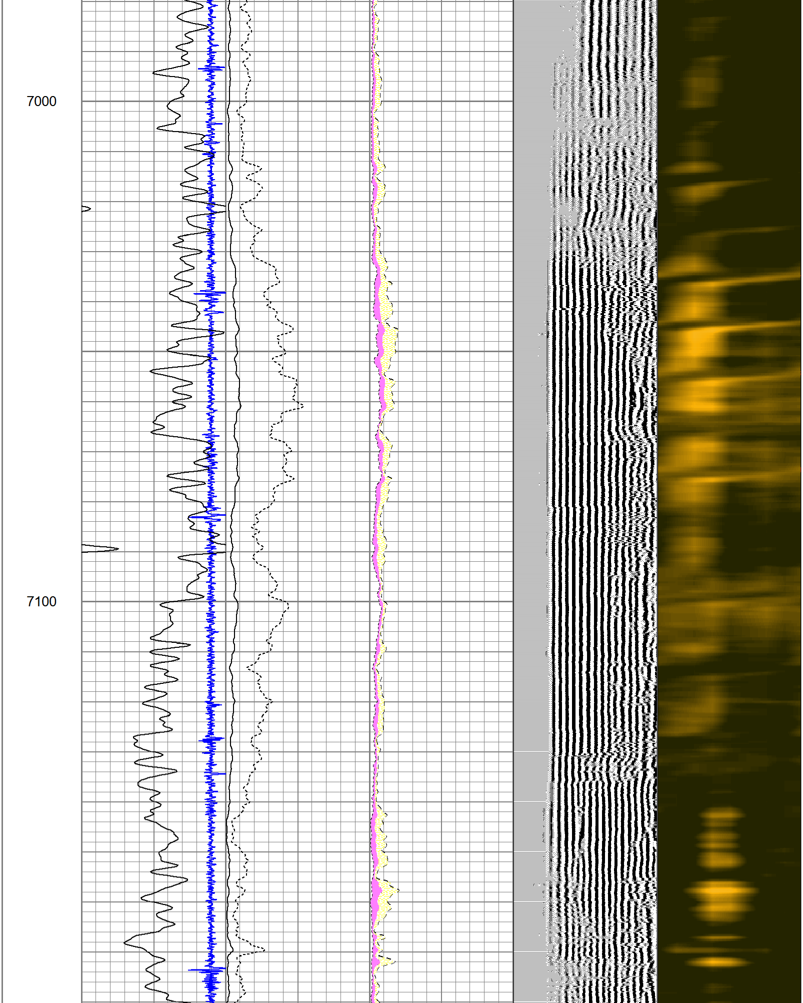
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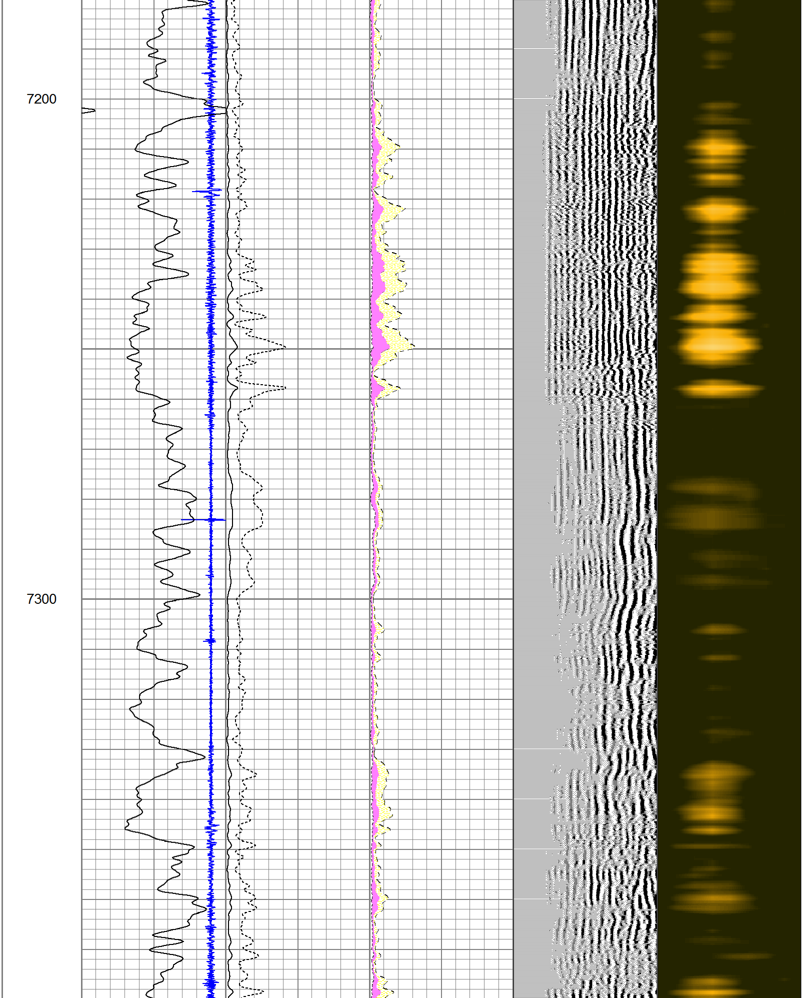
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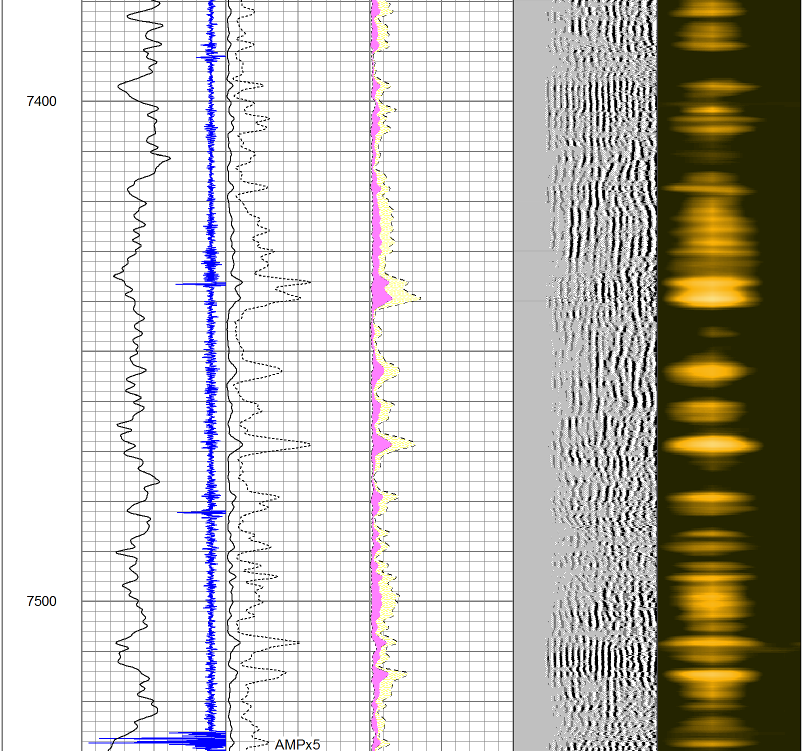
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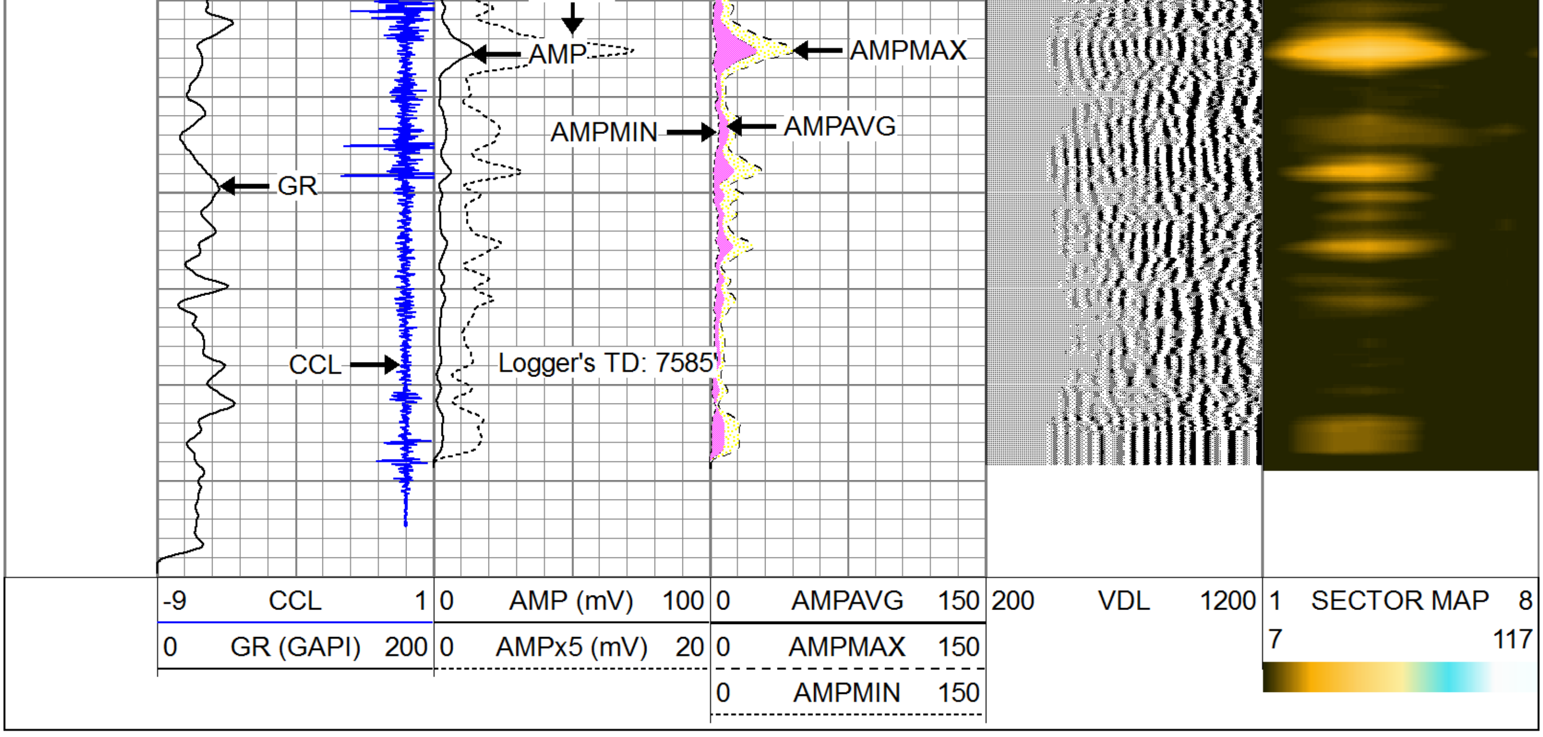

Calibration Report

Database File: 13456.db
Dataset Pathname: pass4
Dataset Creation: Fri Feb 07 02:54:31 2014 by Log 0

Gamma Ray Calibration Report

Serial Number:	111205	
Tool Model:	probe 2.75	
Performed:	Wed Feb 05 11:09:02 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:	Base	
Tool Model:	Probe	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	300.590	ft

Master Calibration, performed Fri Feb 07 02:29:22 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.924	0.000	62.200	68.231	-0.835
CAL	0.012	1.008				
5'	0.012	0.970	0.000	62.200	64.944	-0.787
SUM						
S1	0.012	1.028	0.000	100.000	98.495	-1.222
S2	0.012	0.941	0.000	100.000	107.611	-1.291
S3	0.012	0.845	0.000	100.000	120.108	-1.459
S4	0.012	0.807	0.000	100.000	125.754	-1.532
S5	0.012	0.822	0.000	100.000	123.442	-1.498
S6	0.012	0.879	0.000	100.000	115.346	-1.404
S7	0.012	0.989	0.000	100.000	102.418	-1.241
S8	0.012	1.030	0.000	100.000	98.230	-1.191

Internal Reference Calibration, performed Wed Feb 05 12:39:32 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	1.008	1.000	0.000

Air Zero Calibration, performed Wed Feb 05 12:23:21 2014:

	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