Company	NIGHTHAWK PRODUCTION LLC
Well	BLACKCOMB 5-14
Field	ARIKAREE CREEK
County	LINCOLN
State	COLORADO

J-W WIRELINE COMPANY

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Company	NIGHTHAWK PRODUCTION LLC		
Well	BLACKCOMB 5-14		
Field	ARIKAREE CREEK		
County	LINCOLN	State	COLORADO
Location:	API #: 05-073-06601-0000 SHL:1996' FNL & 1097' FWL SWNW LAT: 39.530340/LONG: 39.530340 SEC 14 TWP 6S RGE 54W		Other Services
Permanent Datum	GL	Elevation 5182	Elevation K.B. 5197 D.F. 5196 G.L. 5182
Log Measured From	KB		
Drilling Measured From	KB		

Date	17-SEPTEMBER-2014
Run Number	ONE
Depth Driller	8365
Depth Logger	8257
Bottom Logged Interval	8254
Top Log Interval	SURFACE
Open Hole Size	7.875
Type Fluid	WATER
Density / Viscosity	9.5 LBM
Max. Recorded Temp.	244
Estimated Cement Top	242
Time Well Ready	---
Time Logger on Bottom	---
Equipment Number	2829
Location	STERLING,CO
Recorded By	BRIAN HECHT
Witnessed By	STEVE WYSOCKI

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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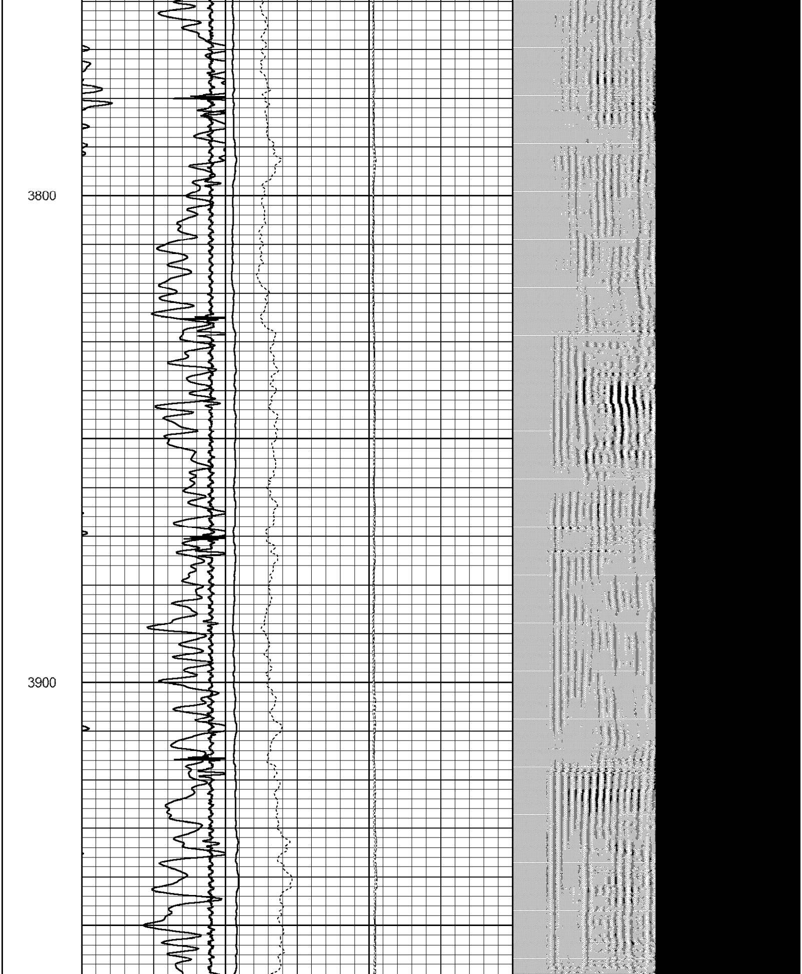
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

Database File:	blackcomb 5-14.db
Dataset Pathname:	pass4
Presentation Format:	scbl02
Dataset Creation:	Wed Sep 17 09:59:06 2014 by Log Std Casedhole 10121
Charted by:	Depth in Feet scaled 1:240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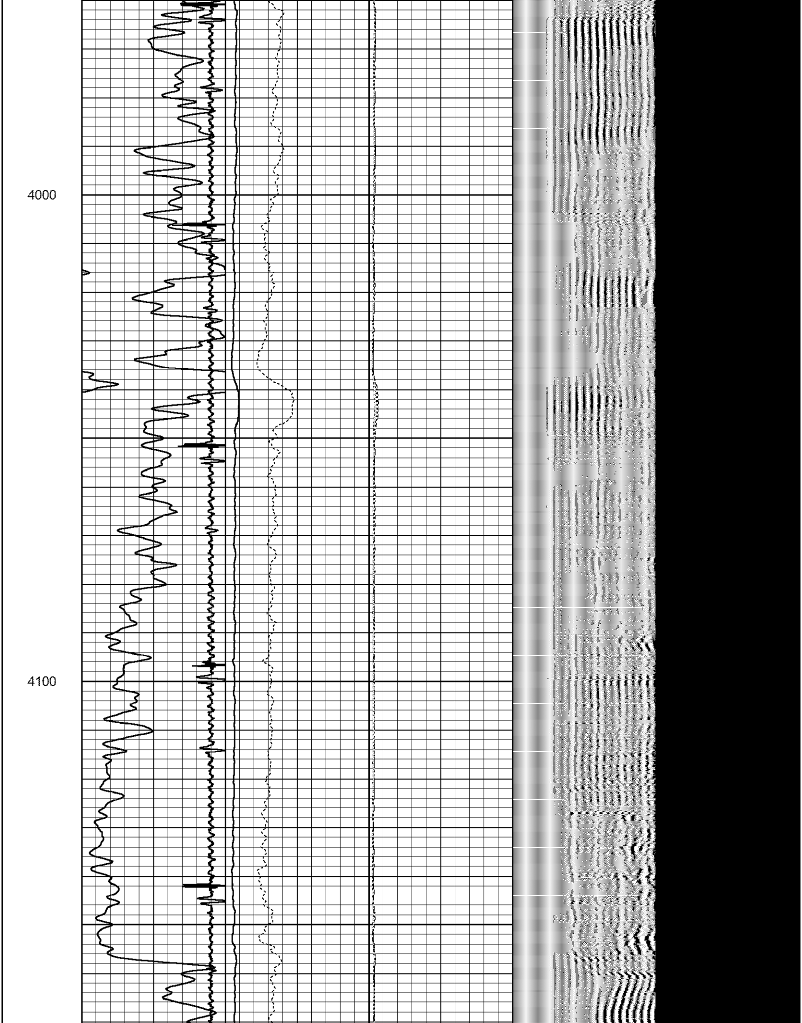
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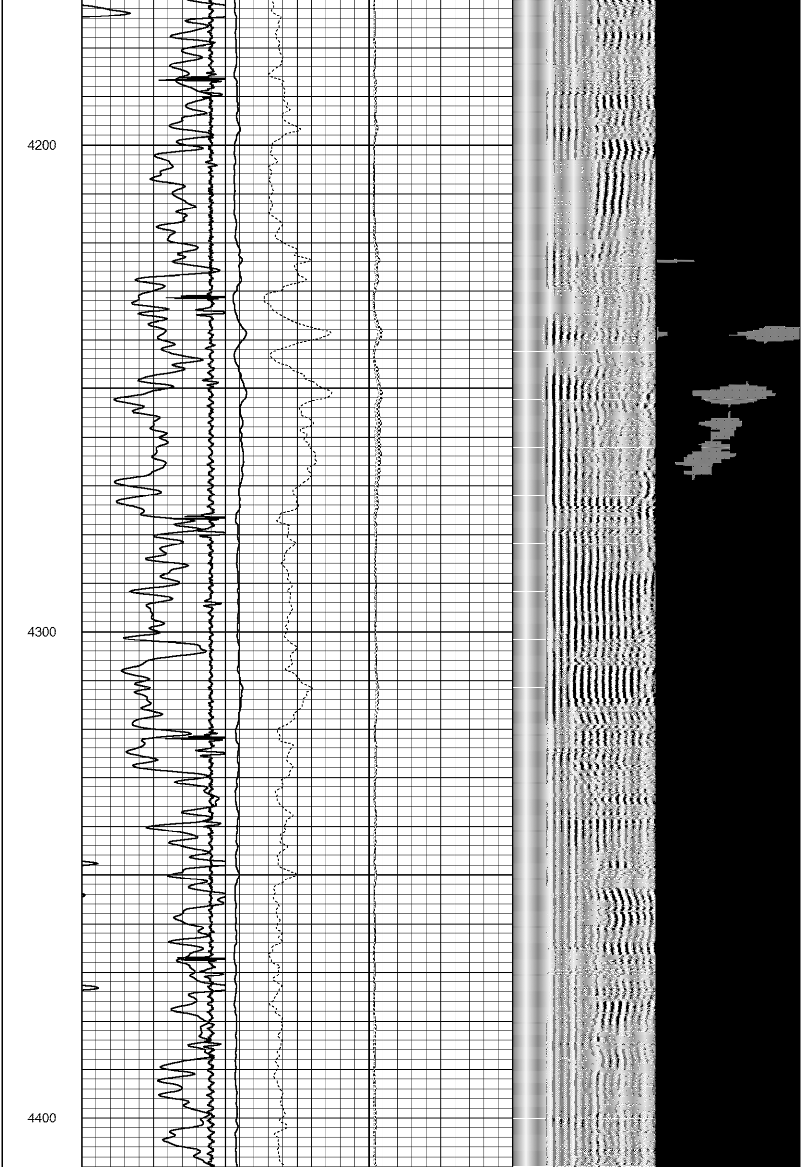
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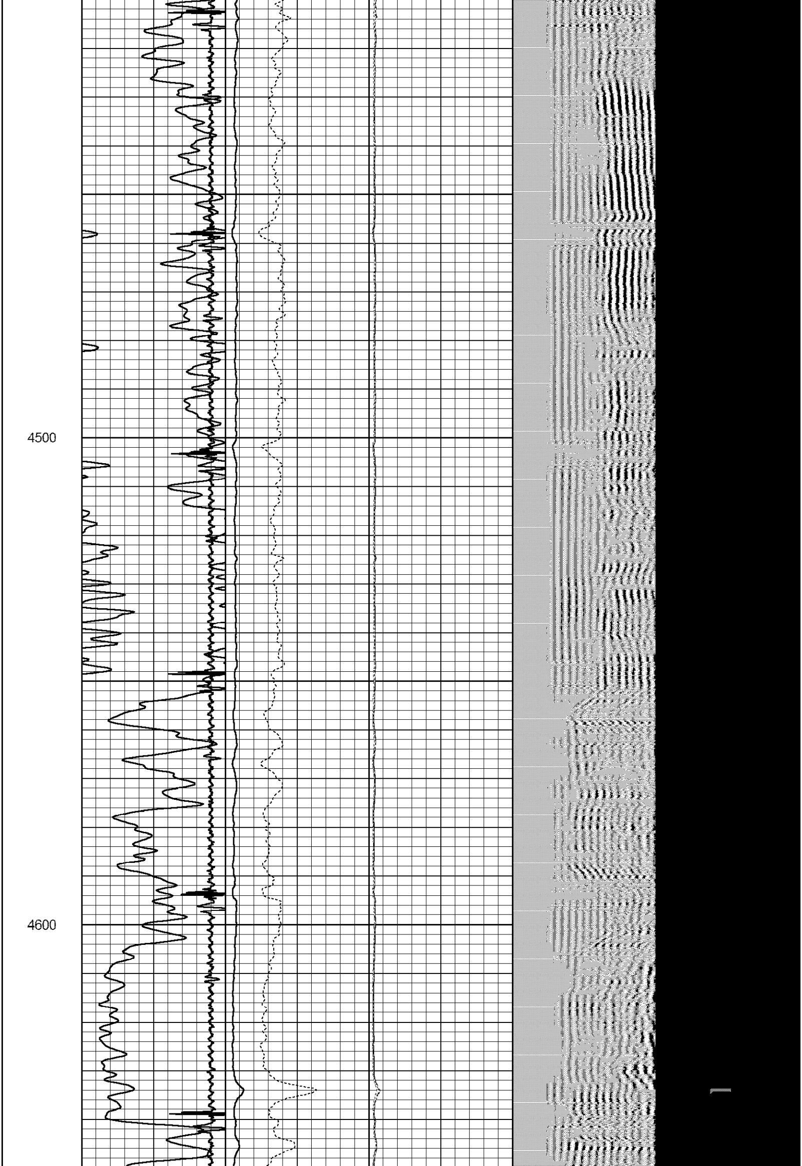
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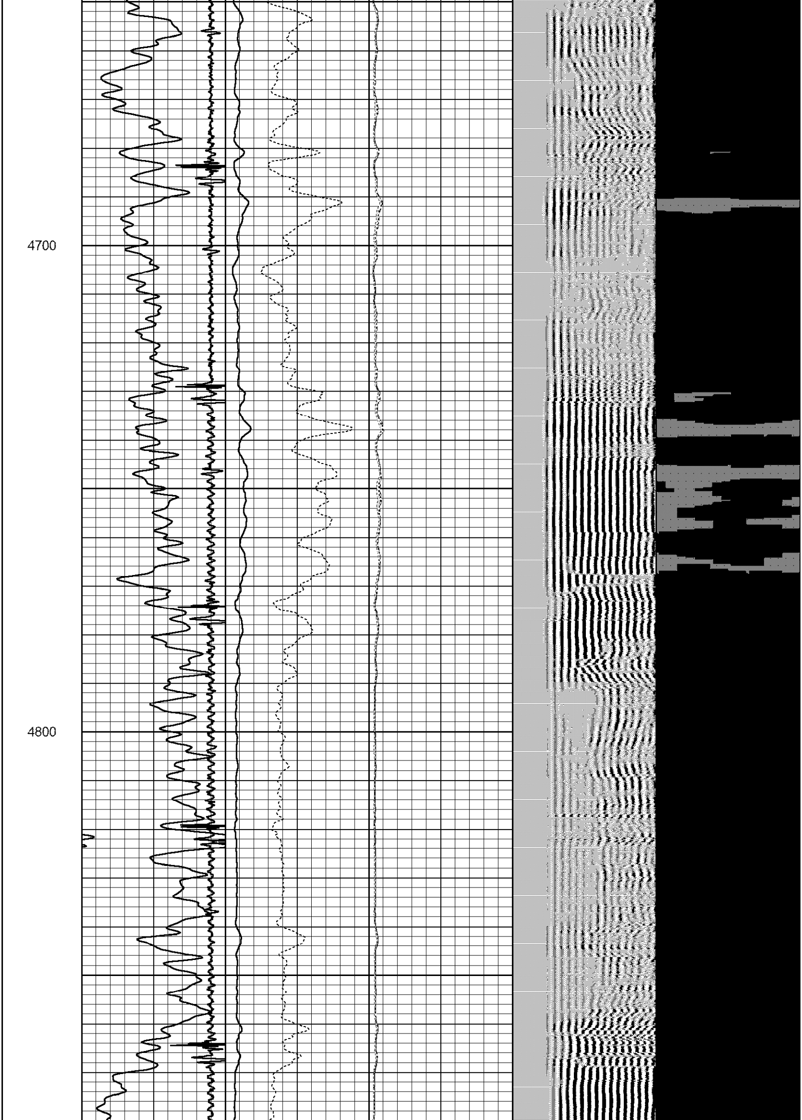
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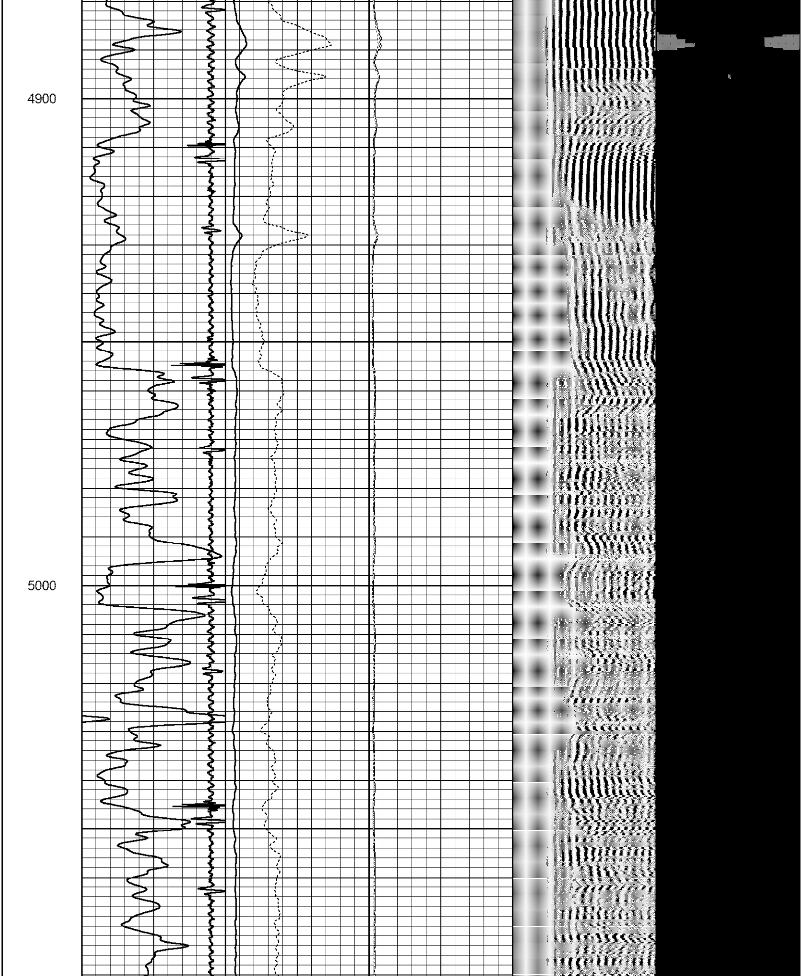
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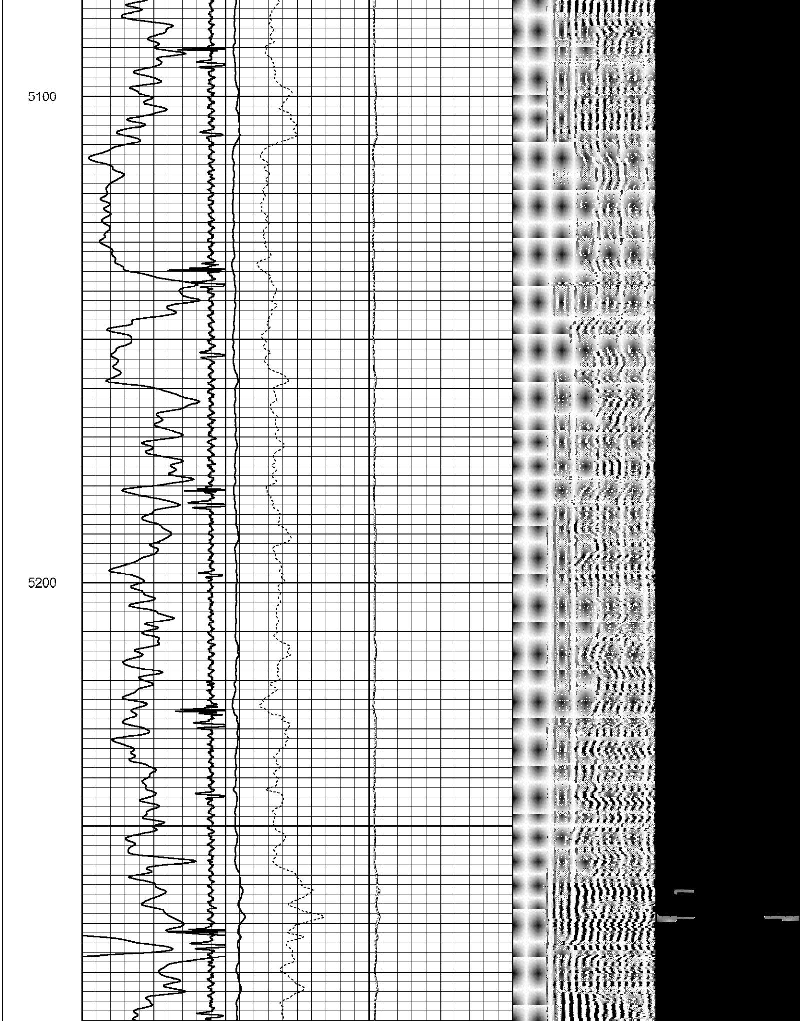
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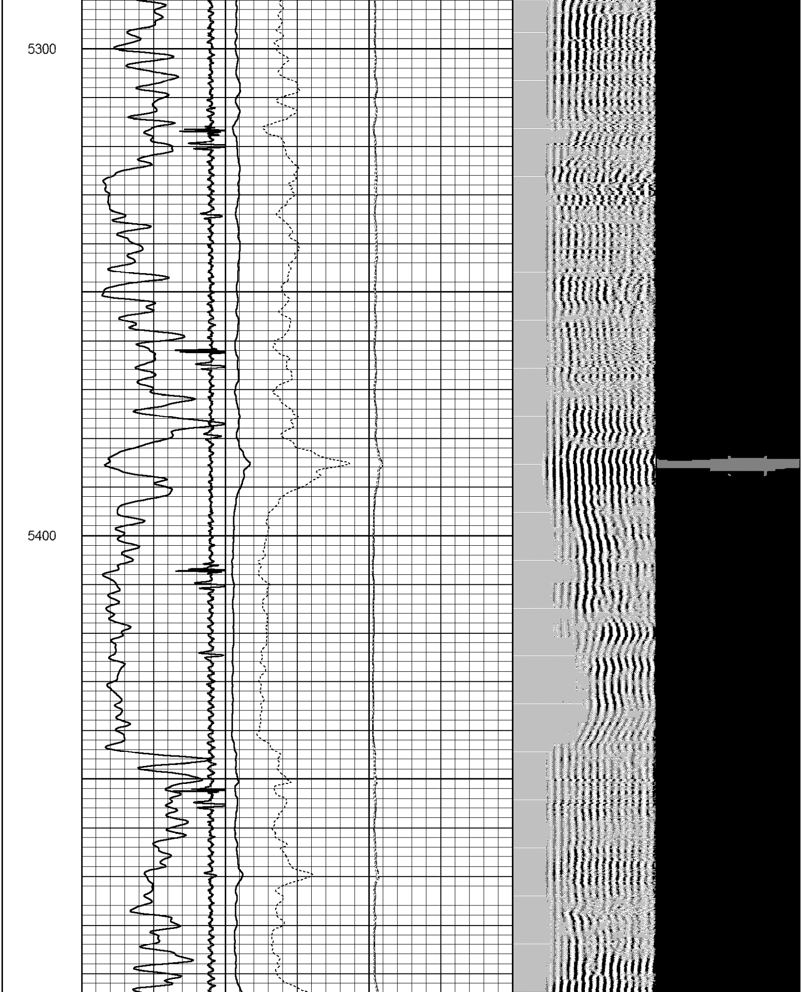
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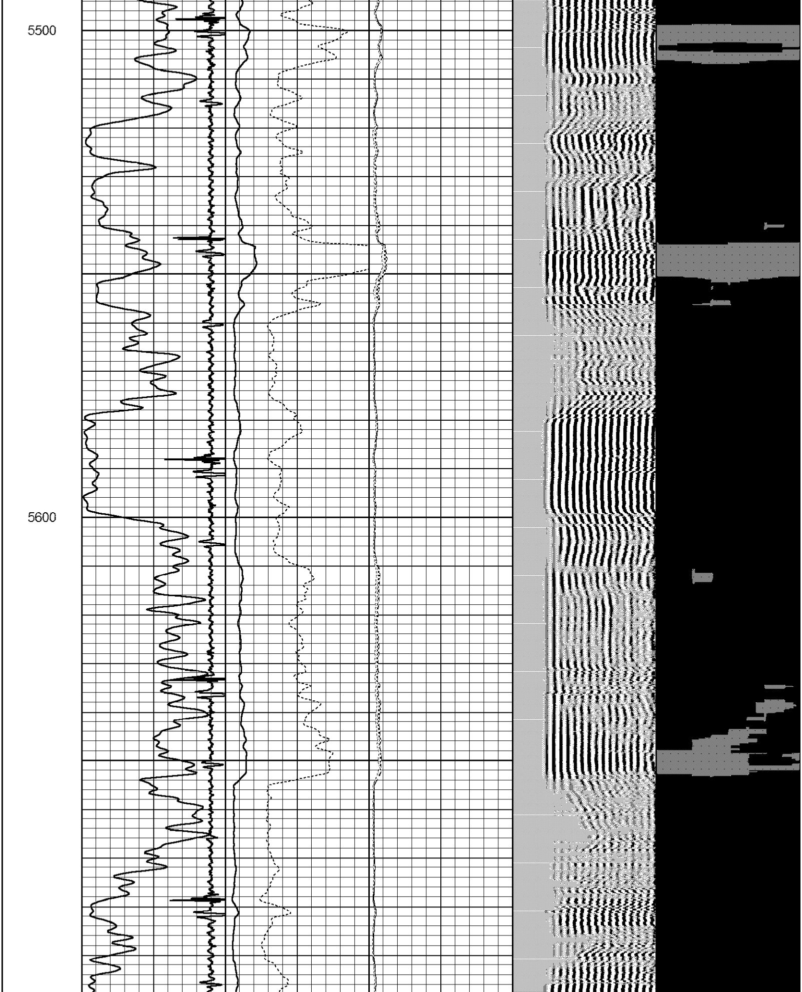
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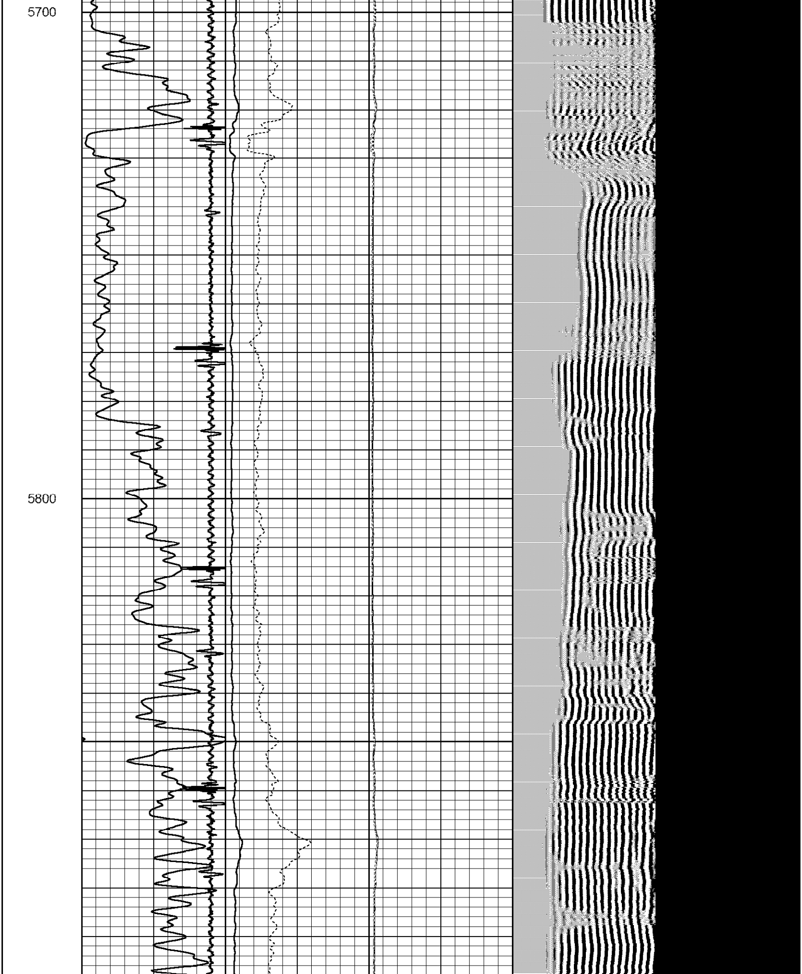
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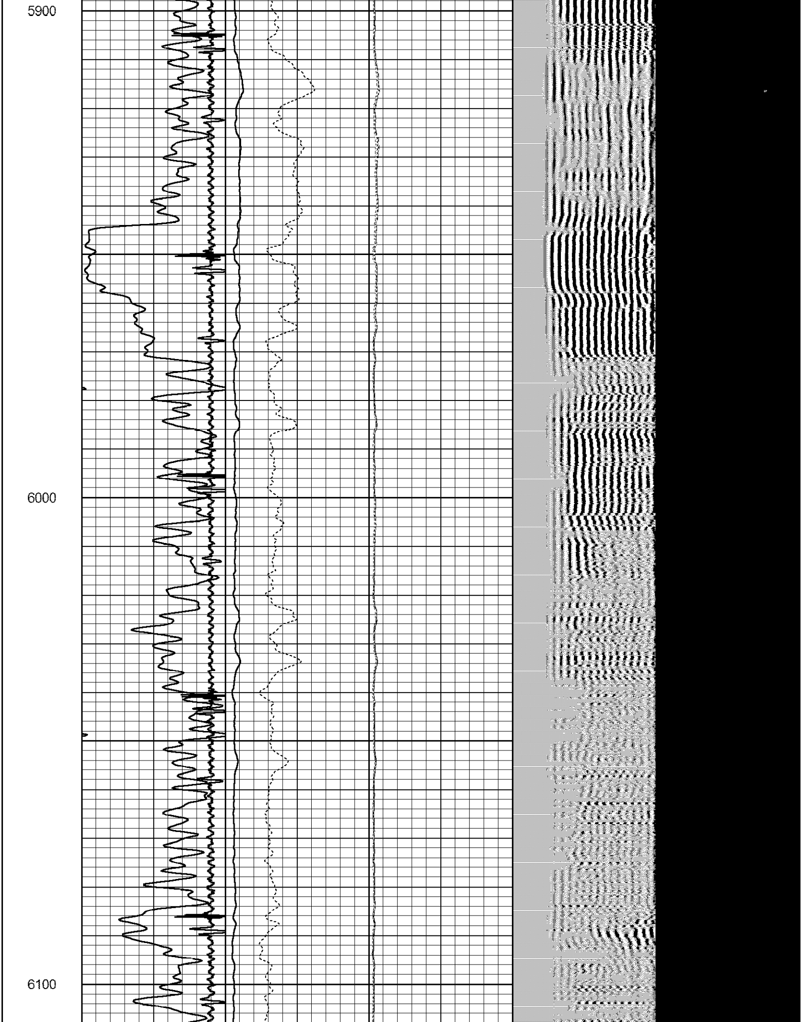
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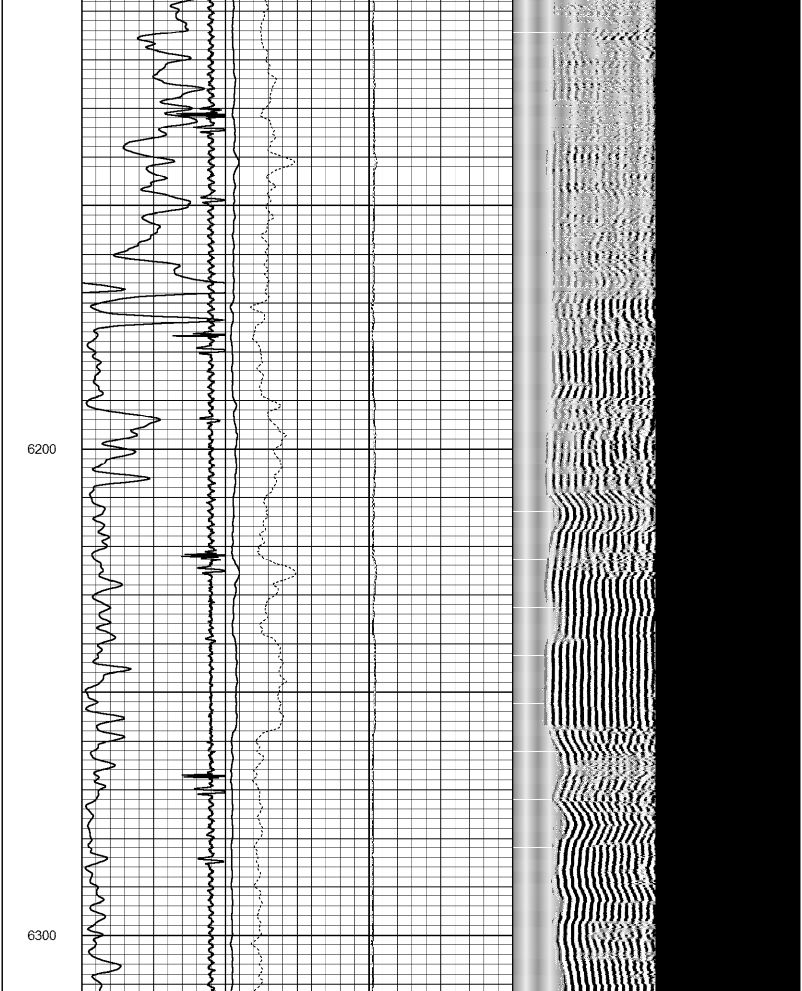
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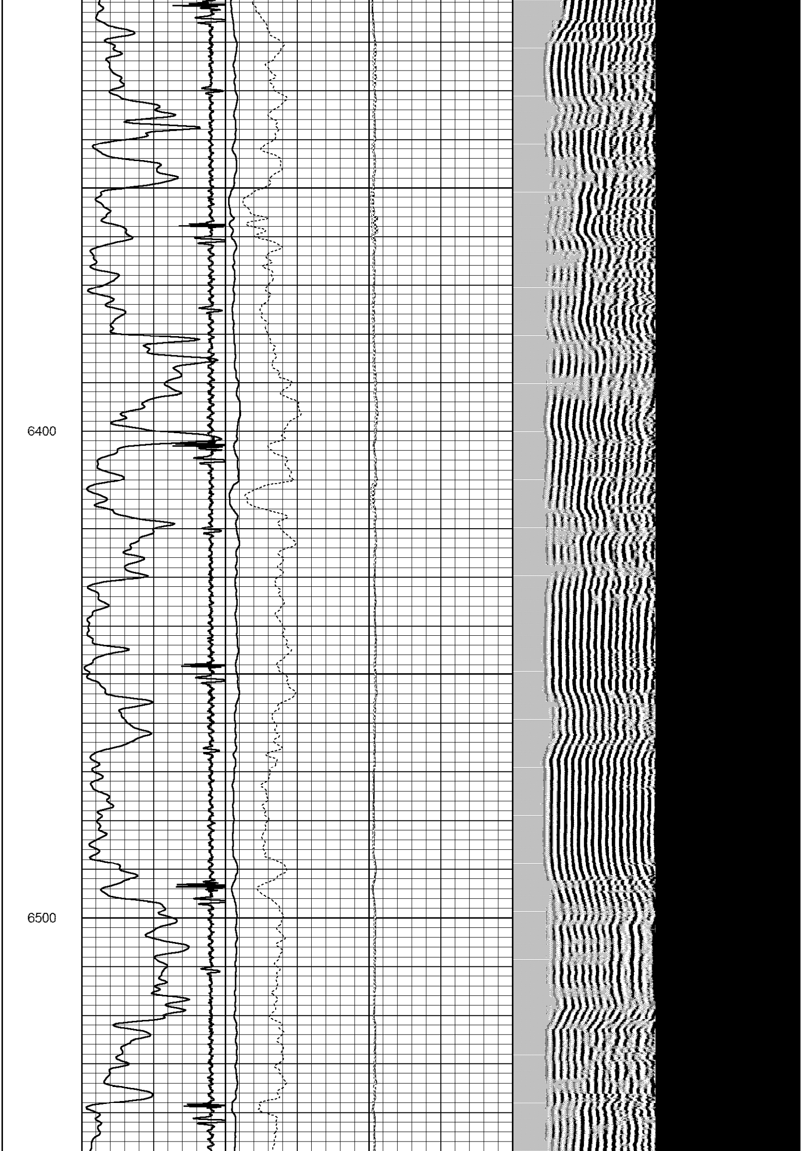
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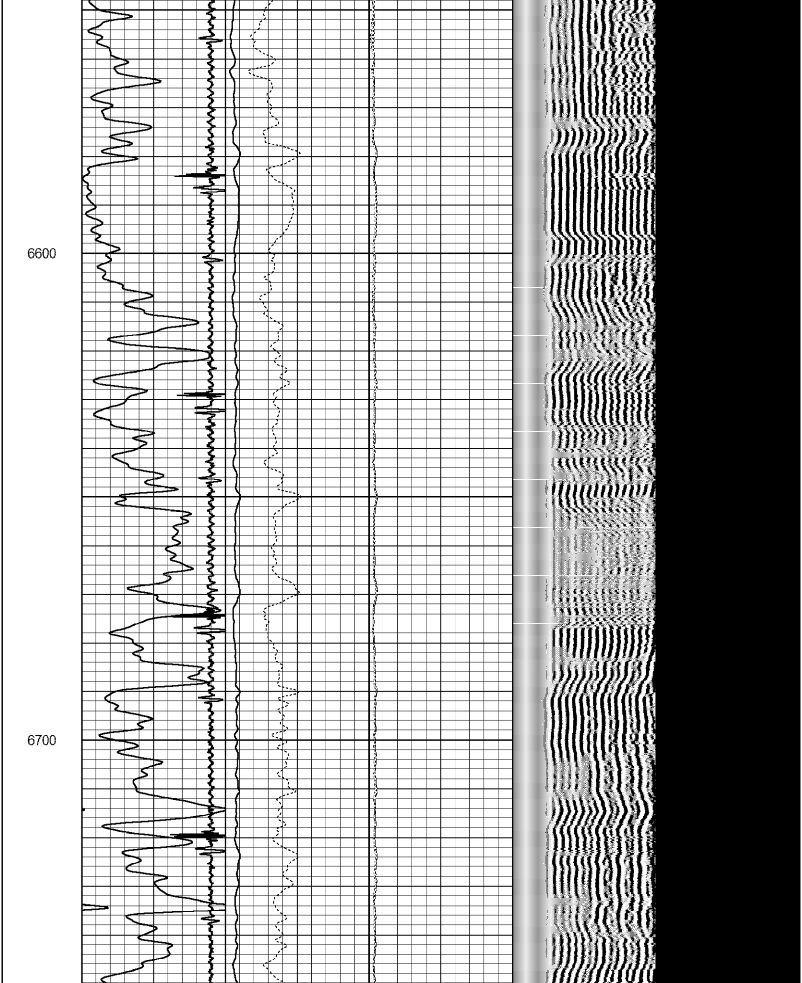
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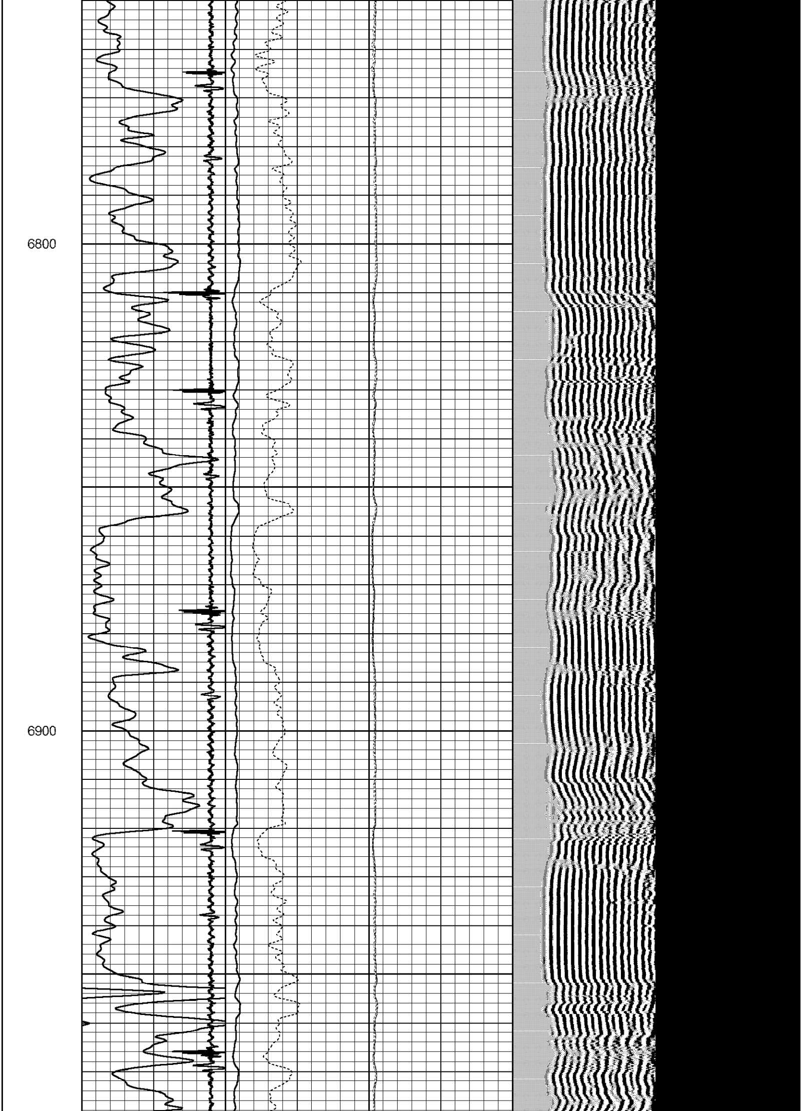
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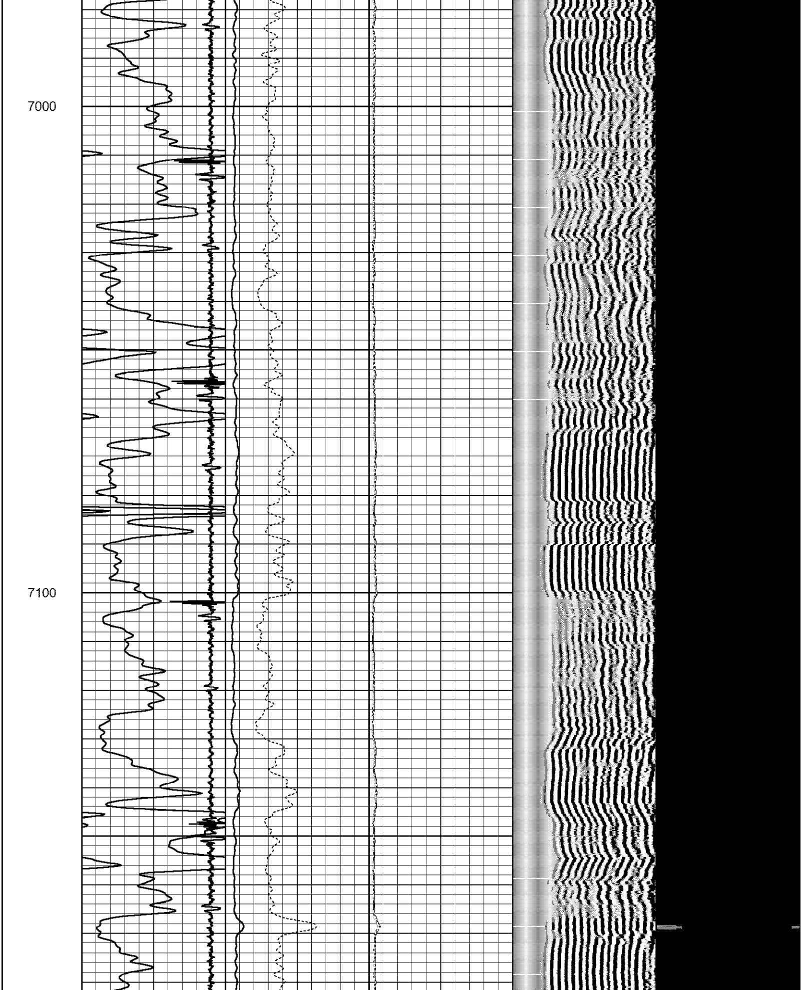
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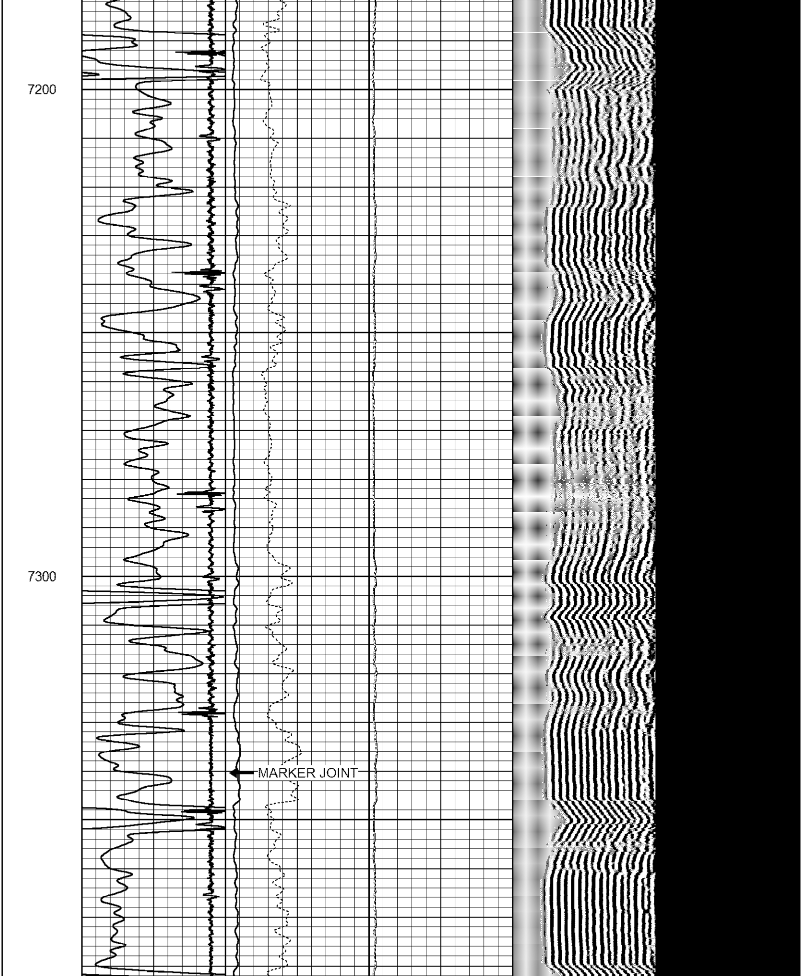
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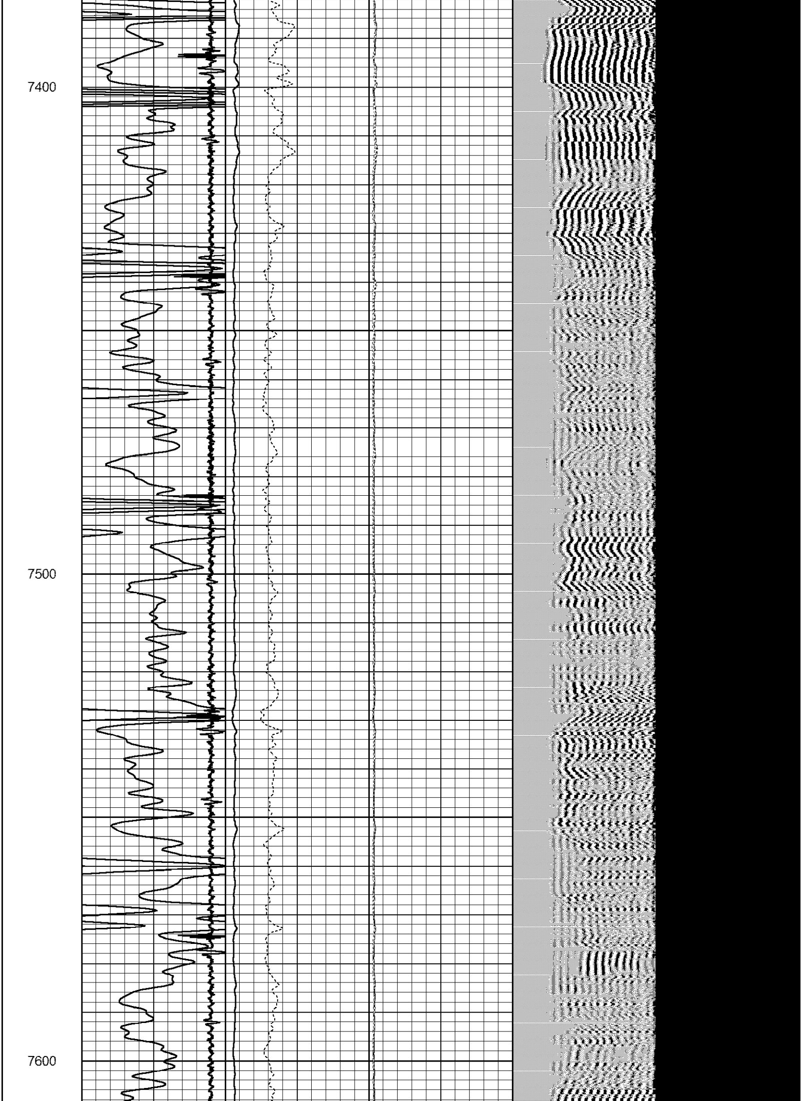
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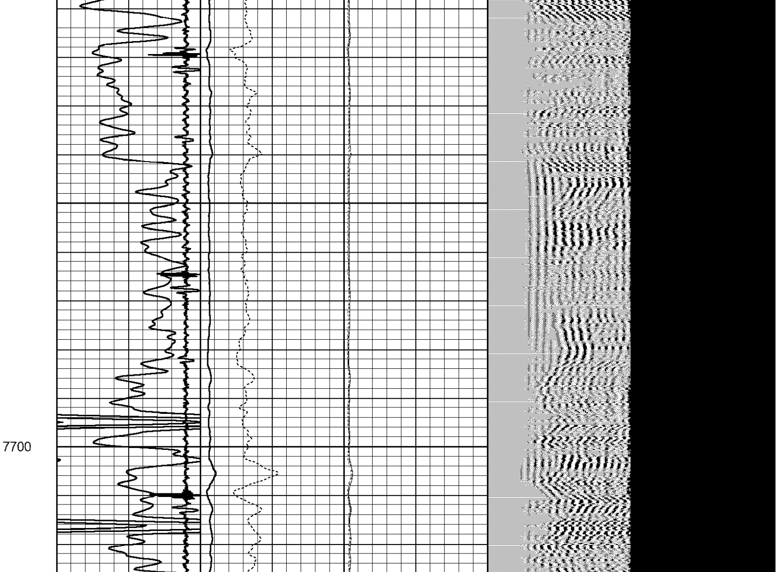
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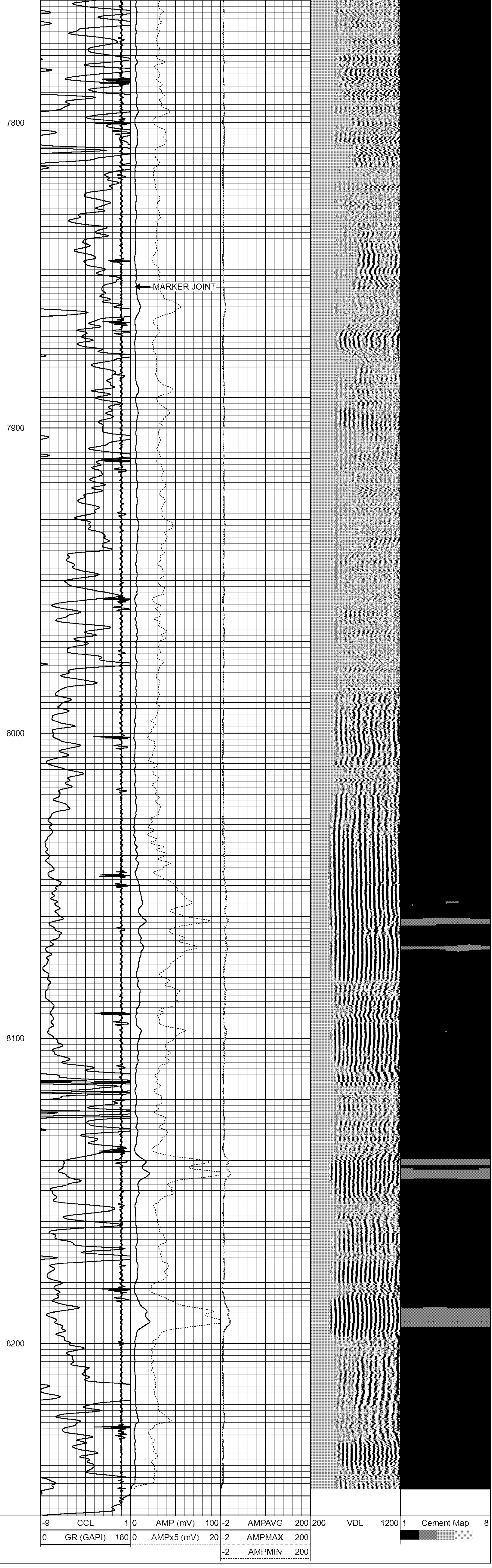
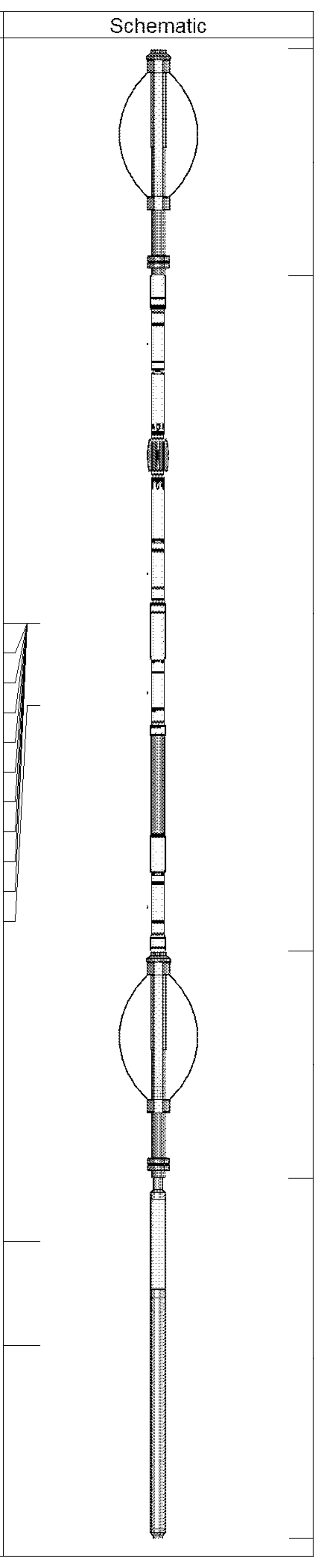


Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT-Probe (Probe1) PROBE 2.75 CENT	3.00	2.75	25.00
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 11.00		RBT-Probe (4.5040904) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			CENT-Probe (Probe2) PROBE 2.75 CENT	3.00	2.75	25.00
CCL GR	3.92 2.54		GR-Probe275dig (pr051112) Probe Digital Gamma CCL	4.75	2.75	57.00

Dataset: blackcomb 5-14.db: field/well/run1/pass4
Total Length: 19.67 ft
Total Weight: 197.00 lb
O.D. 2.75 in