PIONEER

Pioneer Energy Services

CEMENT BOND LOG
With VDL / CCL / GR

Company	Anadarko Petroleum Corporation
Well	WARDELL H 19-04
Field	Wattenberg
County	Weld
State	Colorado

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Location: API # : 05-123-15888

SEC 19 TWP 3N RGE 65

Other Services

None

Permanent Datum	Ground Level	Elevation	5029'
Log Measured From	Kelly Bushing		
Drilling Measured From	10'		

Elevation
K.B. 5039'
D.F.
G.L. 5029'

Date	08 July 2014		
Run Number	One		
Depth Driller	7585'		
Depth Logger	7075'		
Bottom Logged Interval	7075'		
Top Log Interval	Surface		
Open Hole Size	UNK		
Type Fluid	Water		
Density / Viscosity	~8.34 #/Gal		
Max. Recorded Temp.	NA		
Estimated Cement Top	SEE LOG		
Time Well Ready	15:00		
Time Logger on Bottom	15:30		
Equipment Number	P-96		
Location	Fort Morgan		
Recorded By	T. REESE		
Witnessed By	BRET MARI		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.62	24	10'	652'
Prot. String				
Production String				
Liner	2.87	6.5	10'	7585'

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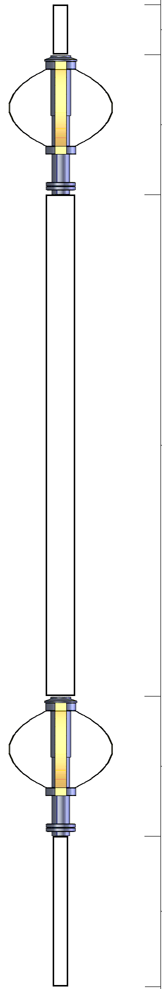
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.08		CCL-SDSCCL (SDSDEMO) CCL For Testing	1.00	1.69	10.00
			CSS_MID	2.79	3.00	36.00
WVF3FT	10.79		CBLTEKCO-TEKCO (SDSDEMO) DEMO TOOL - DEMINSIONS INVALID	10.00	3.25	25.00
WVF5FT	9.79					
WVFSYNC	5.79					
			CSS_MID	2.79	3.00	36.00
			GR-SDSGR (SDSDEMO) GR for Testing	3.00	1.69	20.00
GR	1.00					

Dataset:	wardell h 19-4.db: field/well/run1/pass1
Total Length:	19.58 ft
Total Weight:	127.00 lb
O.D.	3.25 in

Calibration Report

Database File:	wardell h 19-4.db
Dataset Pathname:	pass4
Dataset Creation:	Tue Jul 08 15:02:23 2014 by Log SCH 120430

Gamma Ray Calibration Report

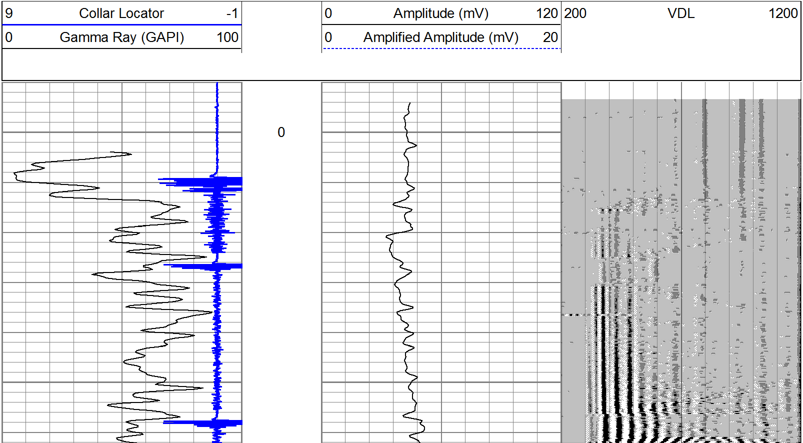
Serial Number:	SDSDEMO	
Tool Model:	SDSGR	
Performed:	Sun Jun 13 14:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

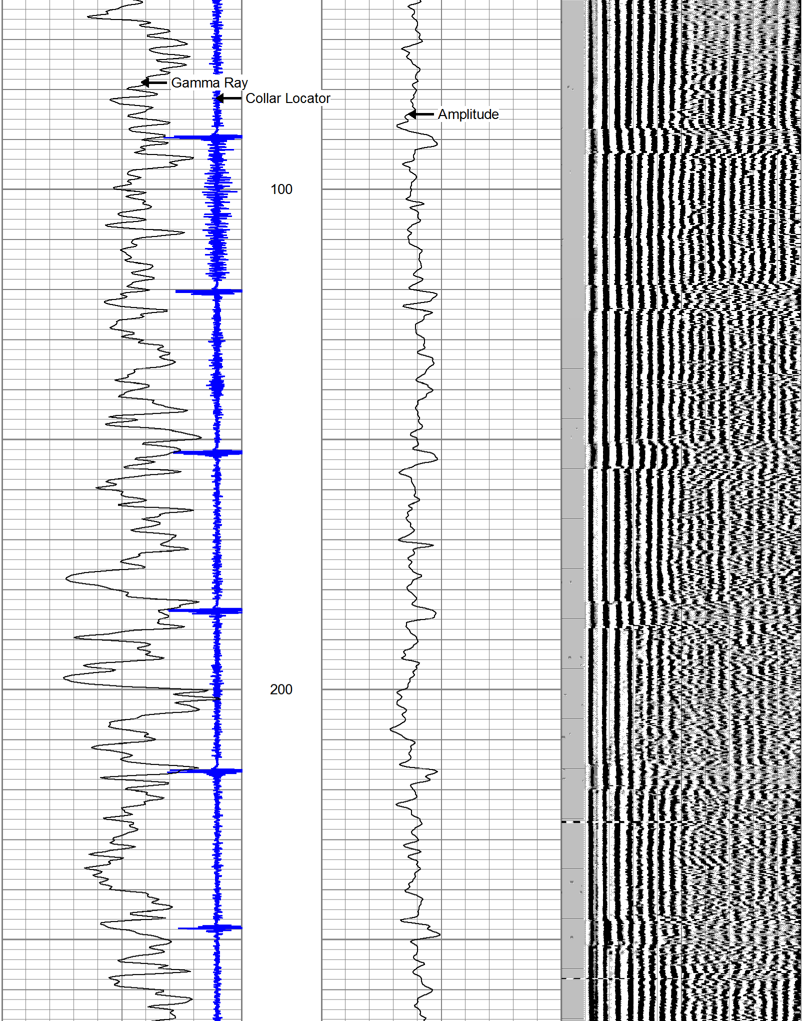
CBL Calibration Report

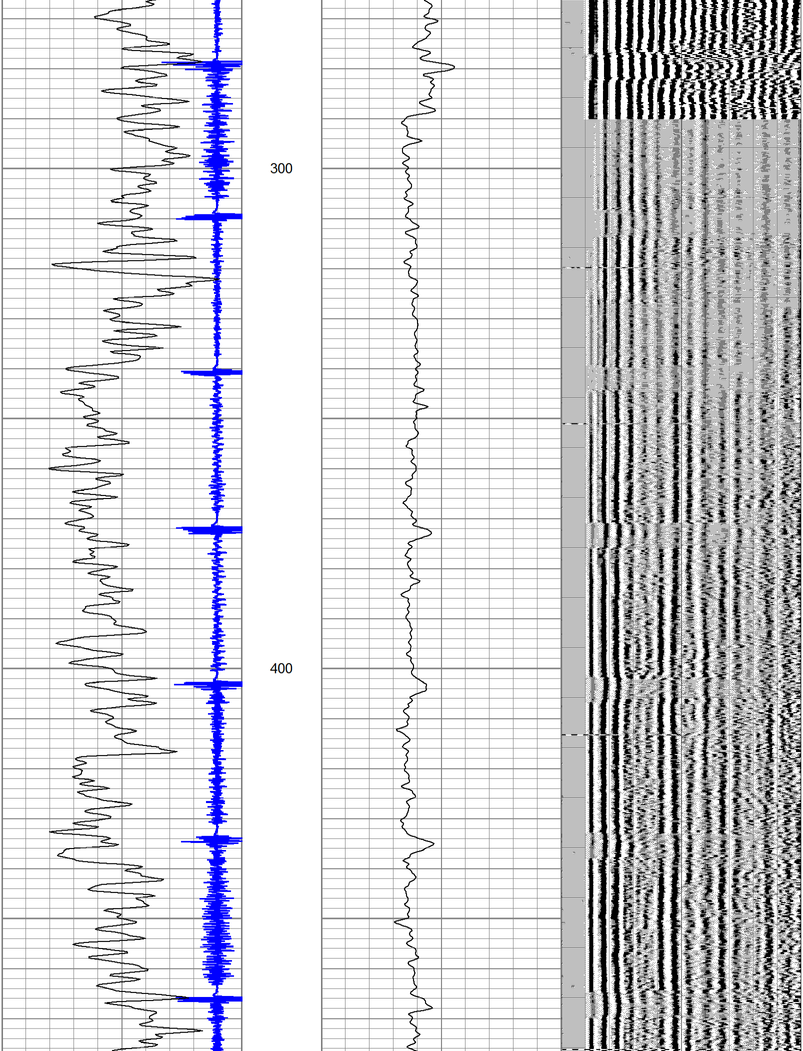
Serial Number:	SDSDEMO	
Tool Model:	TEKCO	
Performed:	Tue Jul 08 15:02:20 2014	
Depth:	4153.217	ft
Casing Diameter:	2.875	in

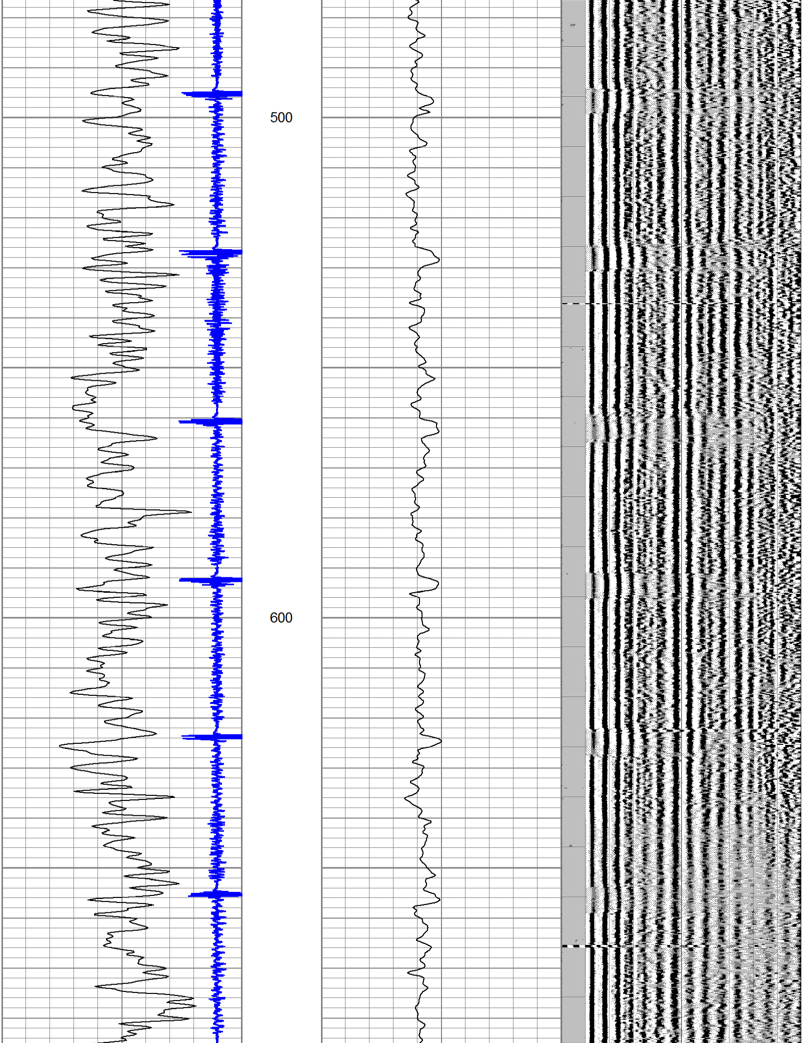
	3' Spacing	5' Spacing	
Signal Zero:	1.000	1.000	mV
Calibrated Amplitude:	106.451	106.451	mV
Reading at Signal Zero:	0.015	0.015	V
Reading in Free Pipe:	0.185	0.115	V
Gain:	617.612	1051.942	
Offset:	-8.047	-14.371	

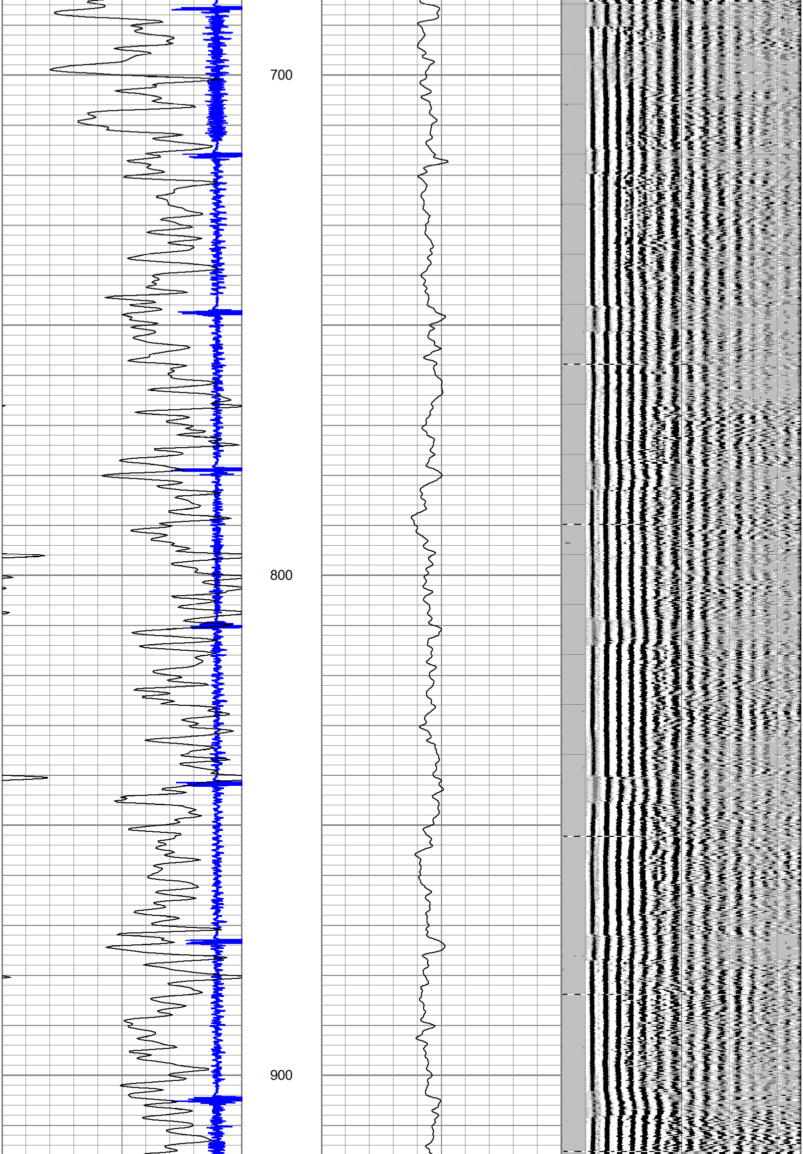
Database File:	wardell h 19-4.db
Dataset Pathname:	merge1.1
Presentation Format:	scbl_dr
Dataset Creation:	Tue Jul 08 16:50:38 2014 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240

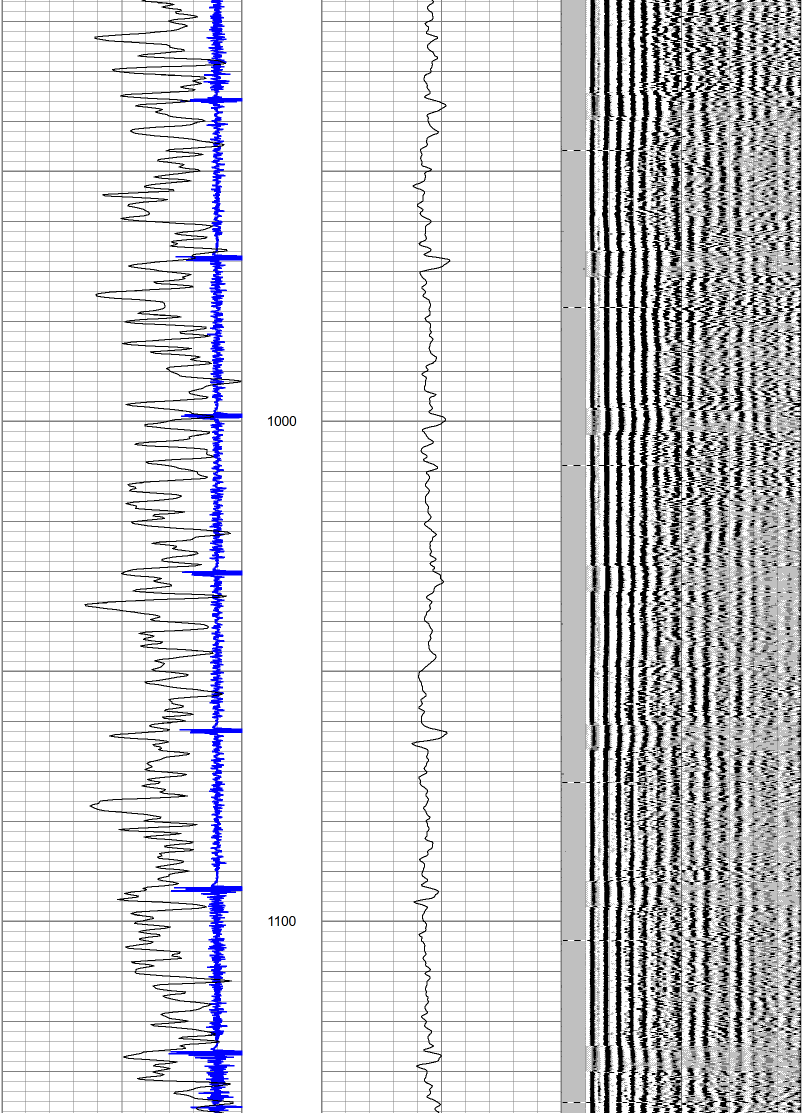


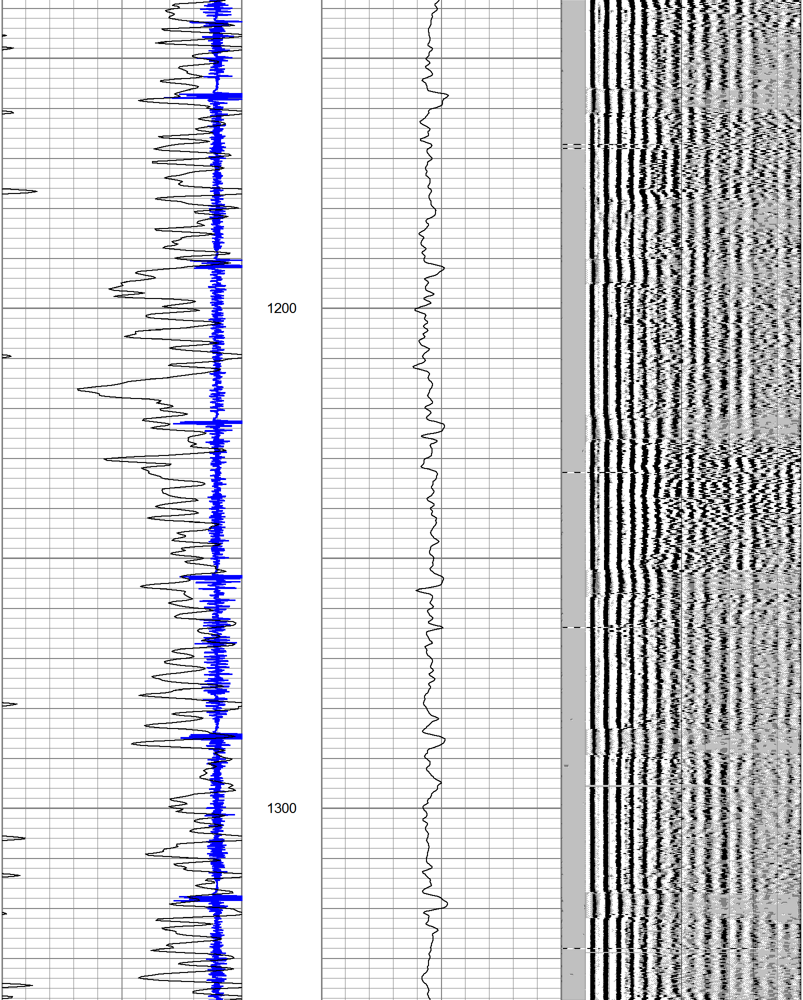


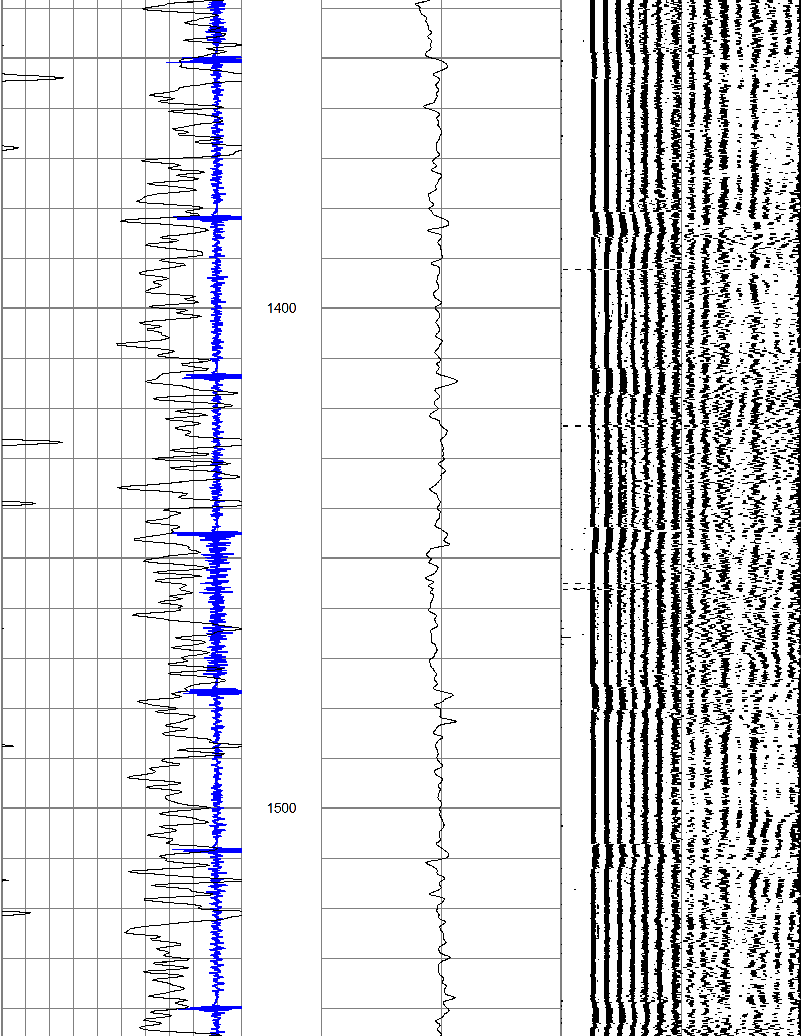


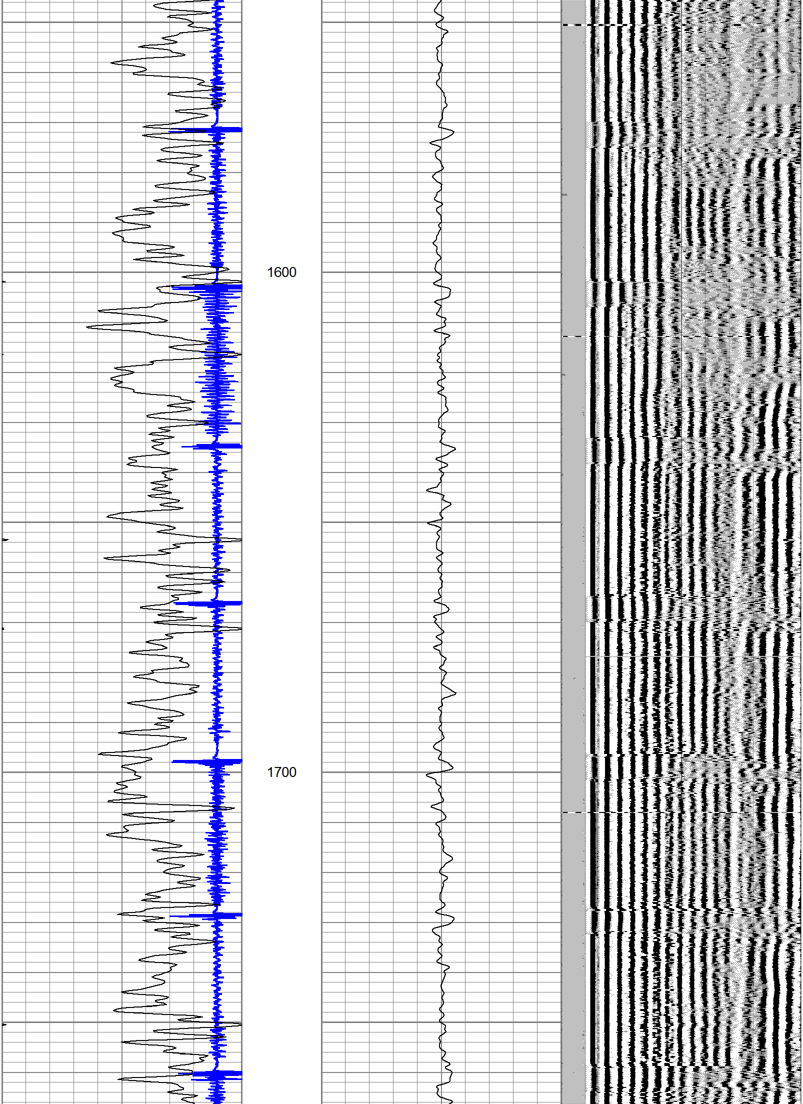


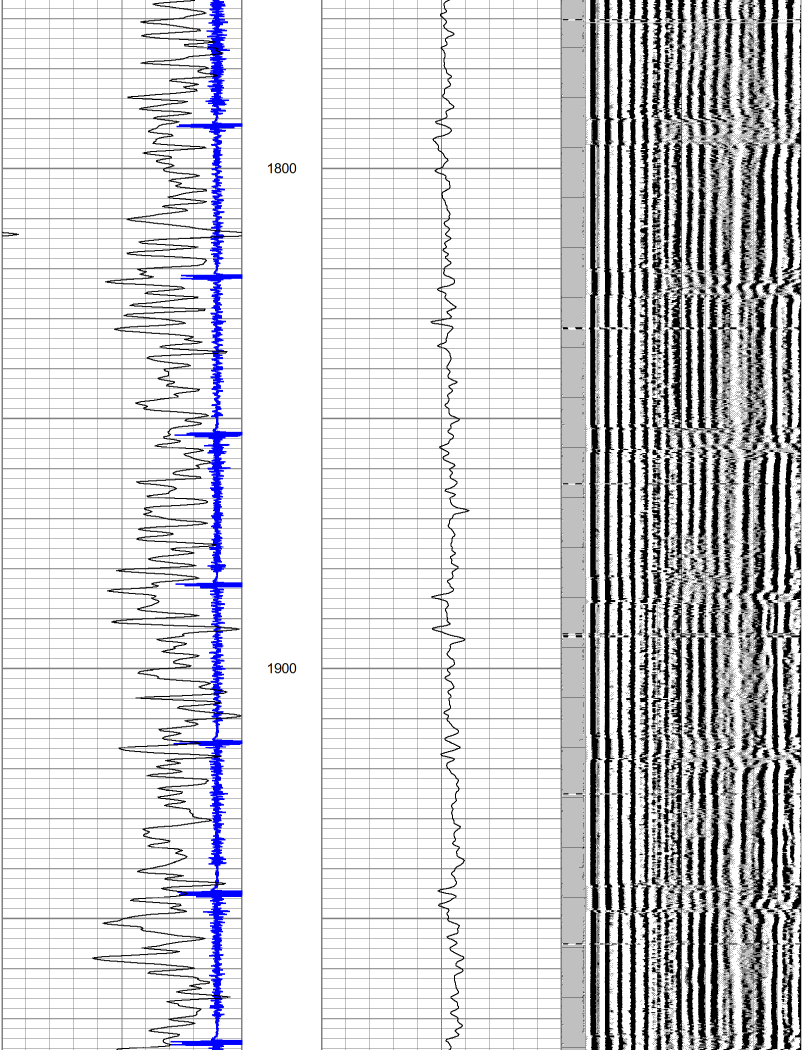


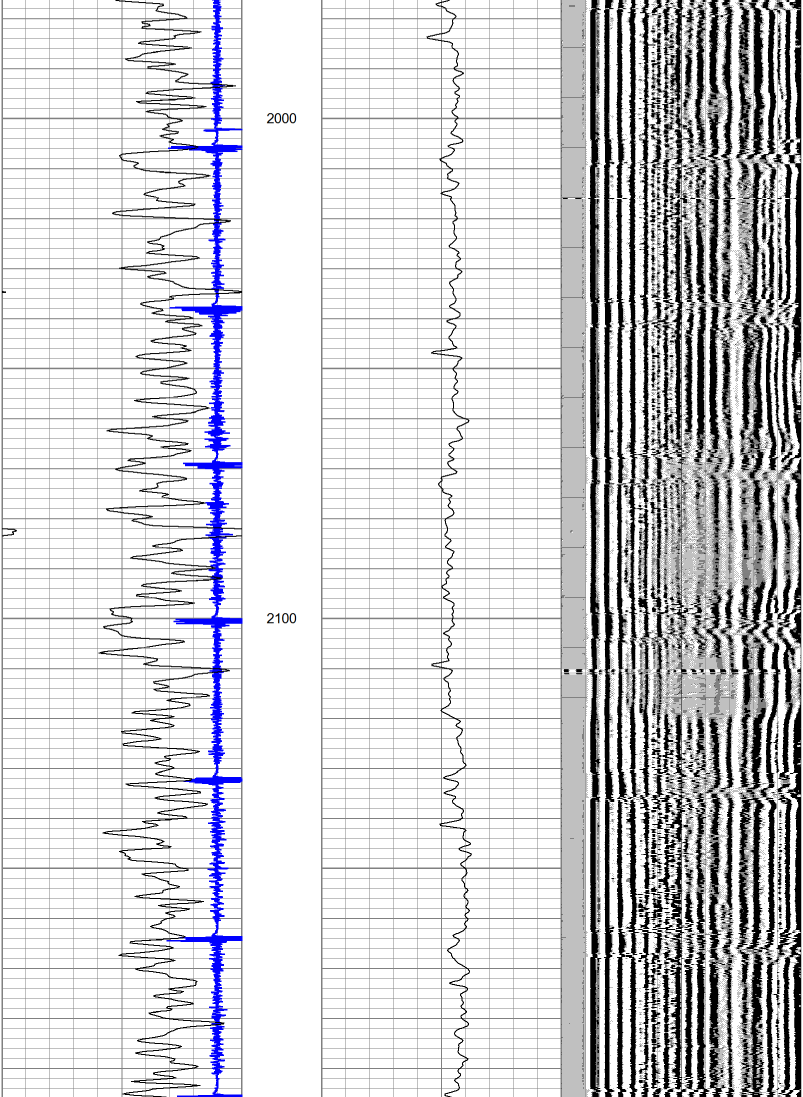


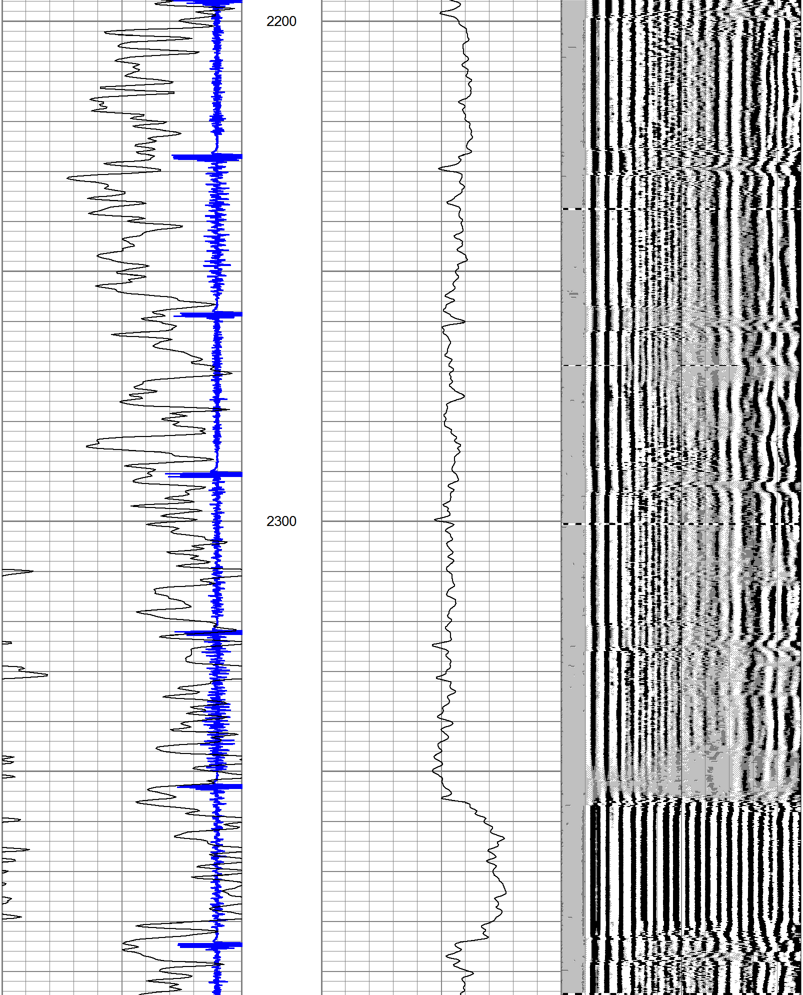


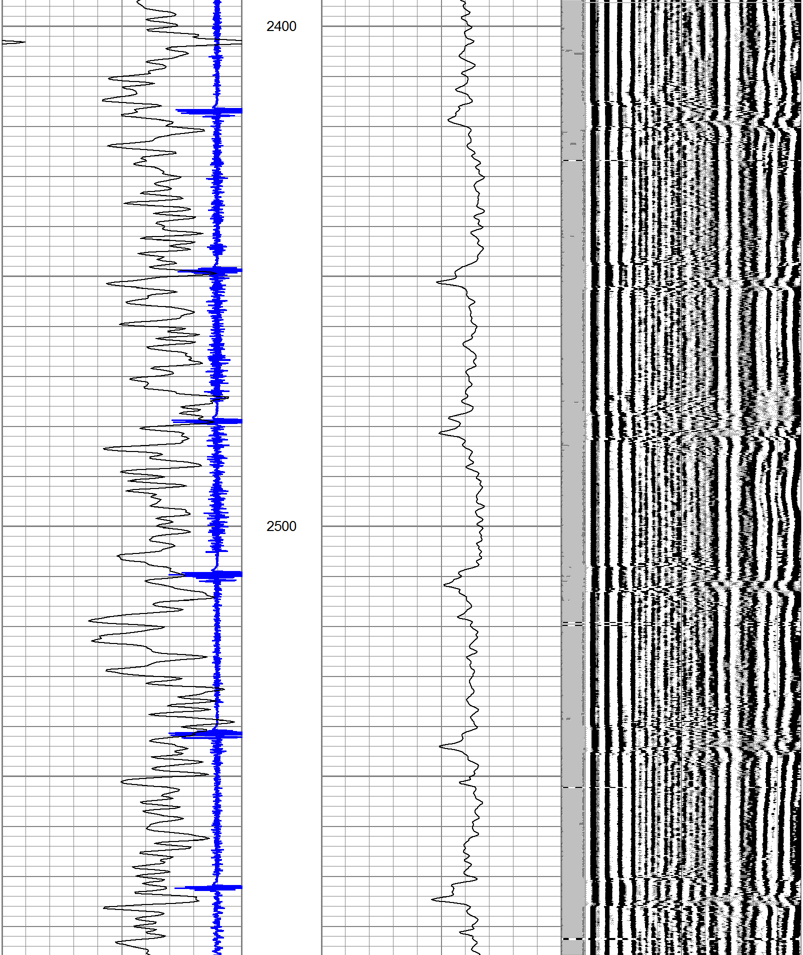


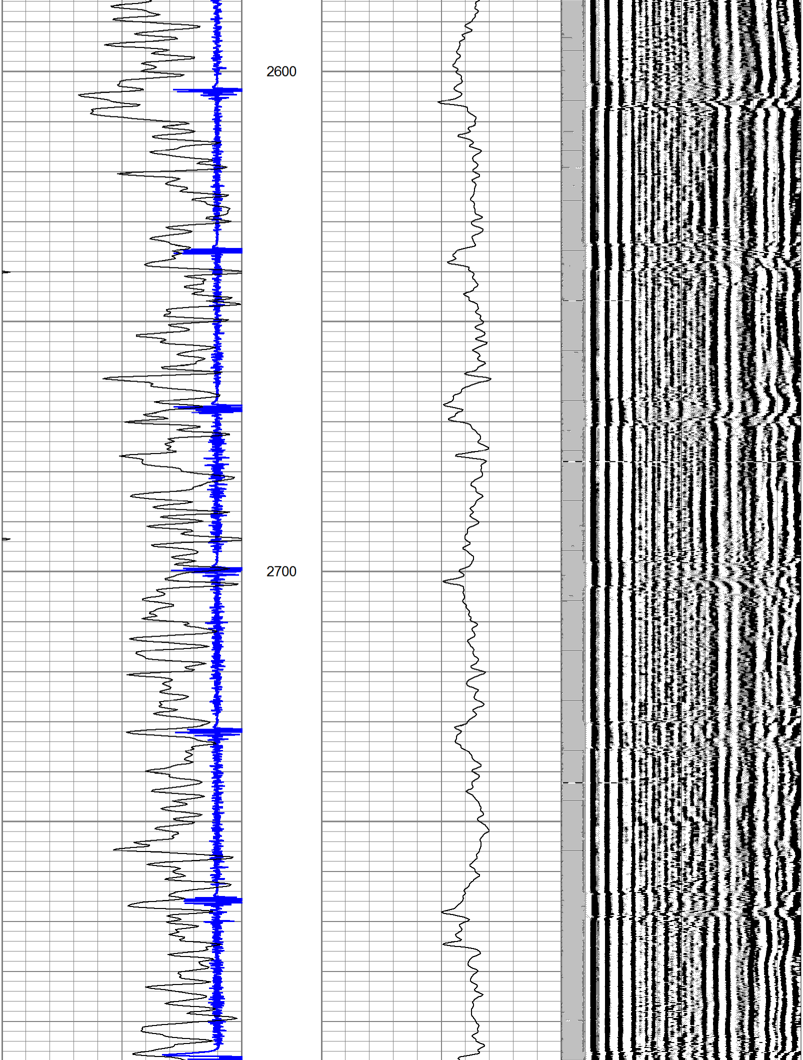


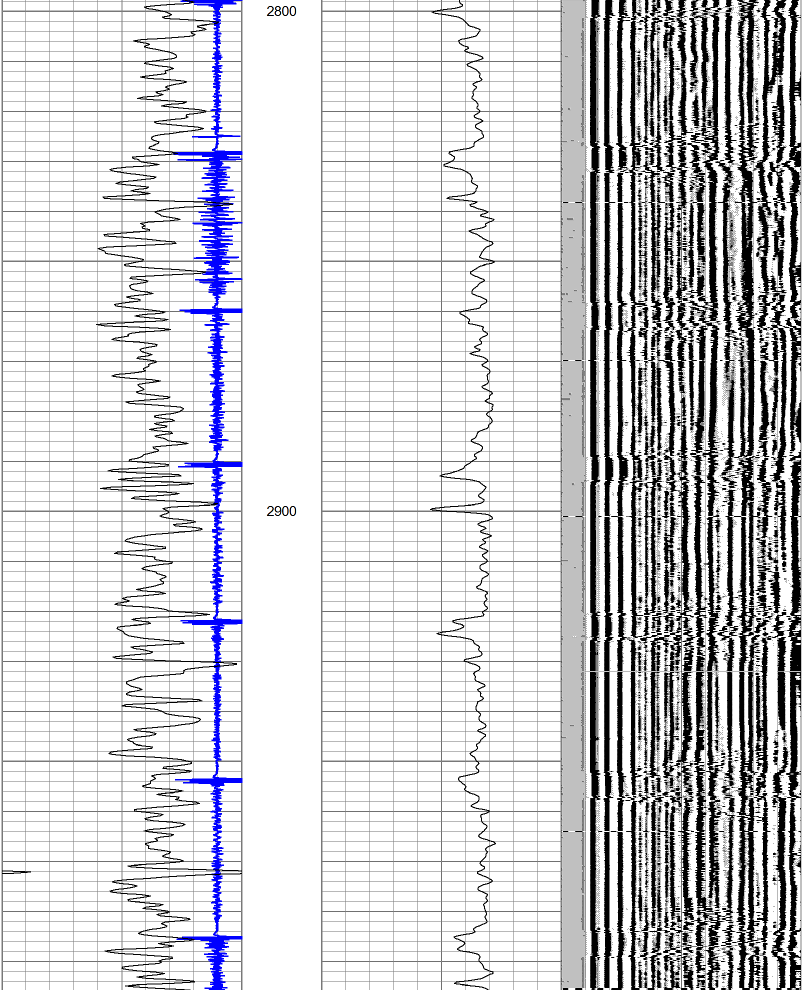


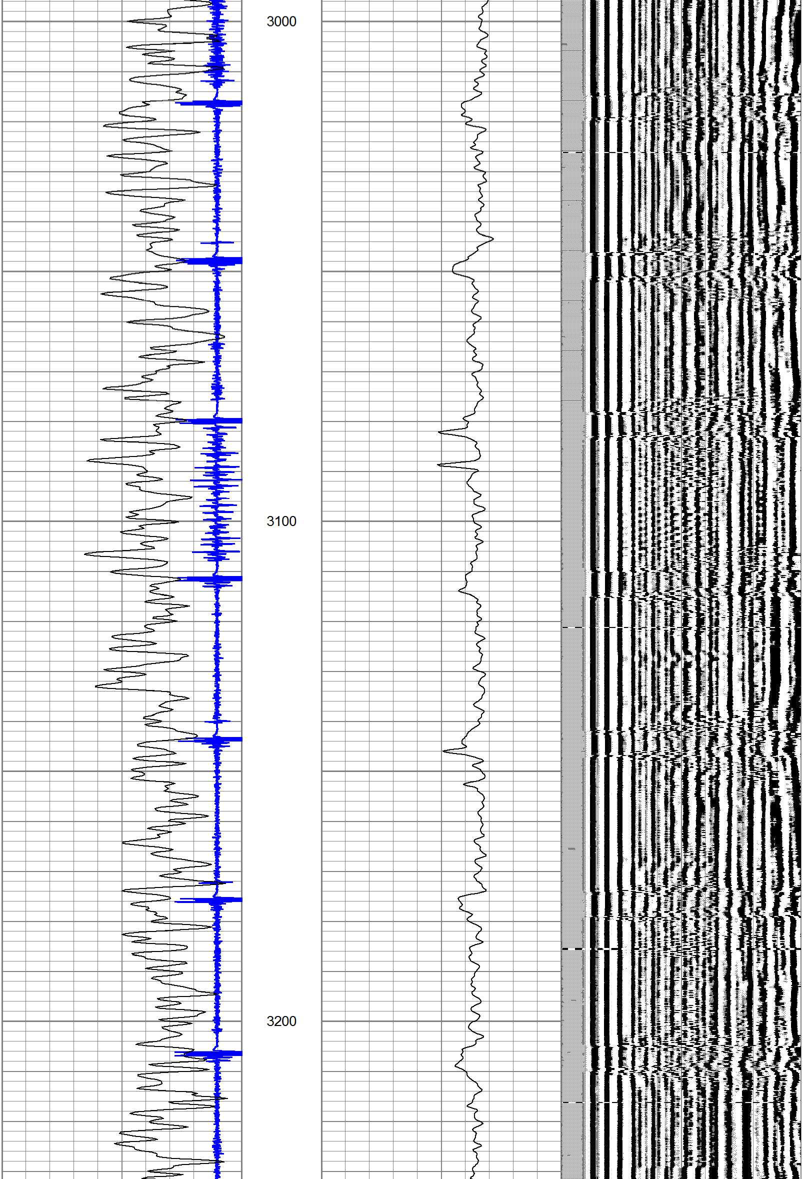


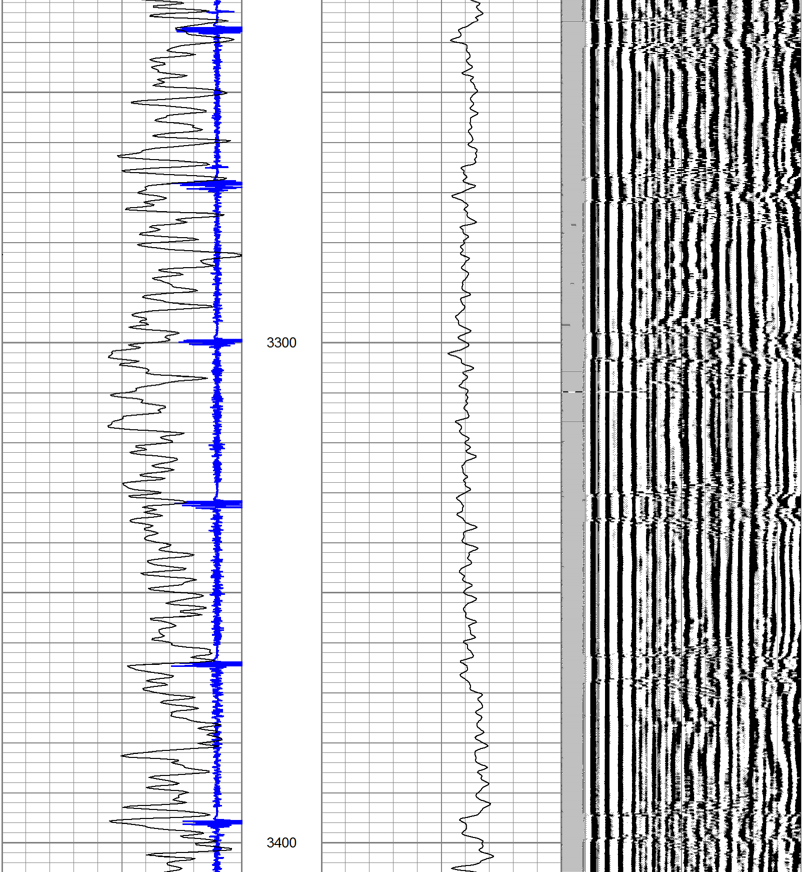


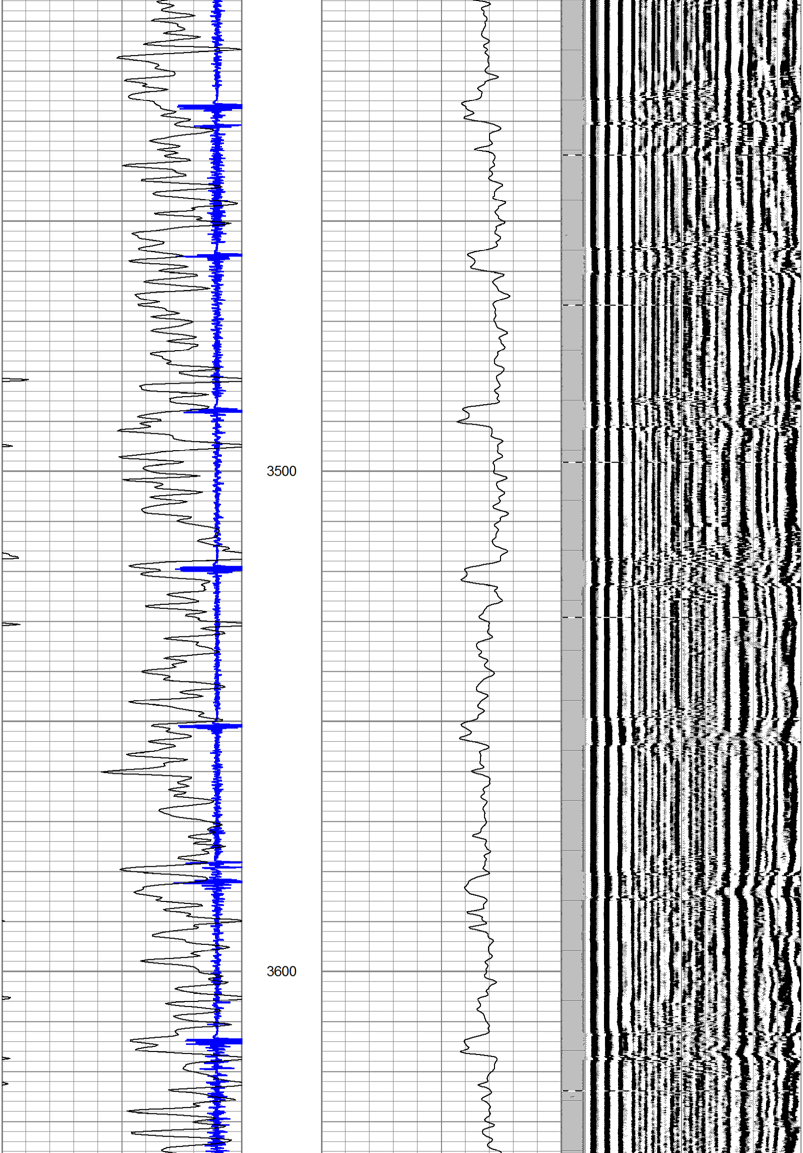


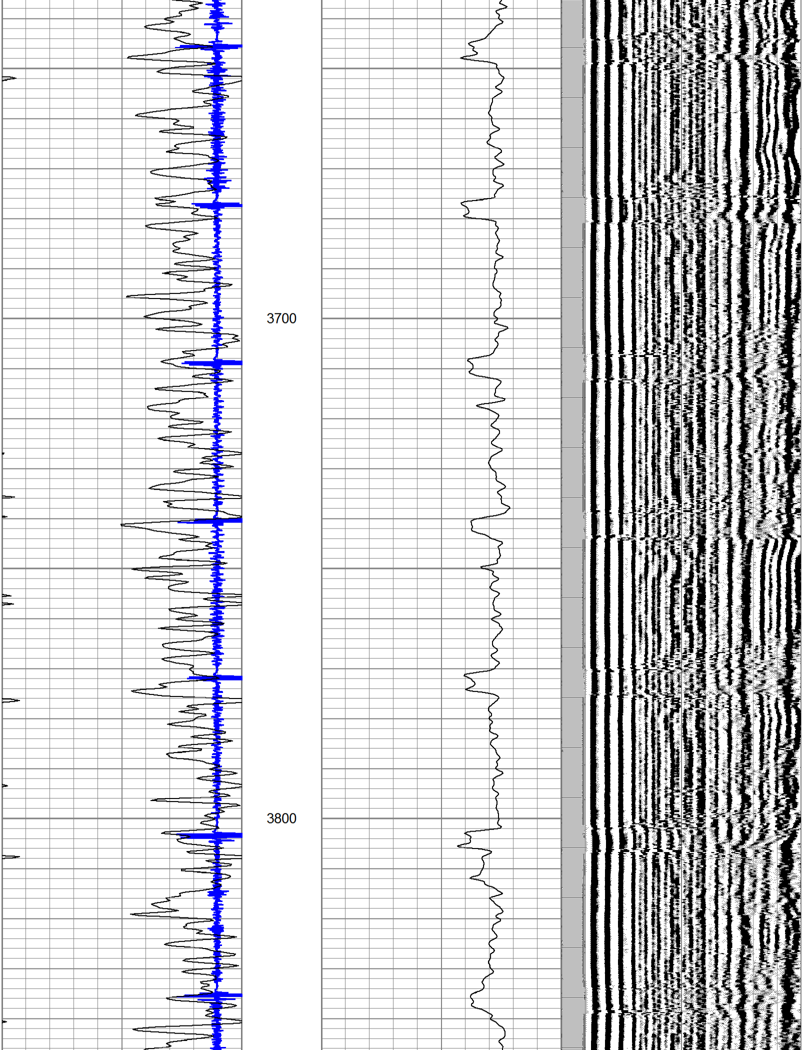


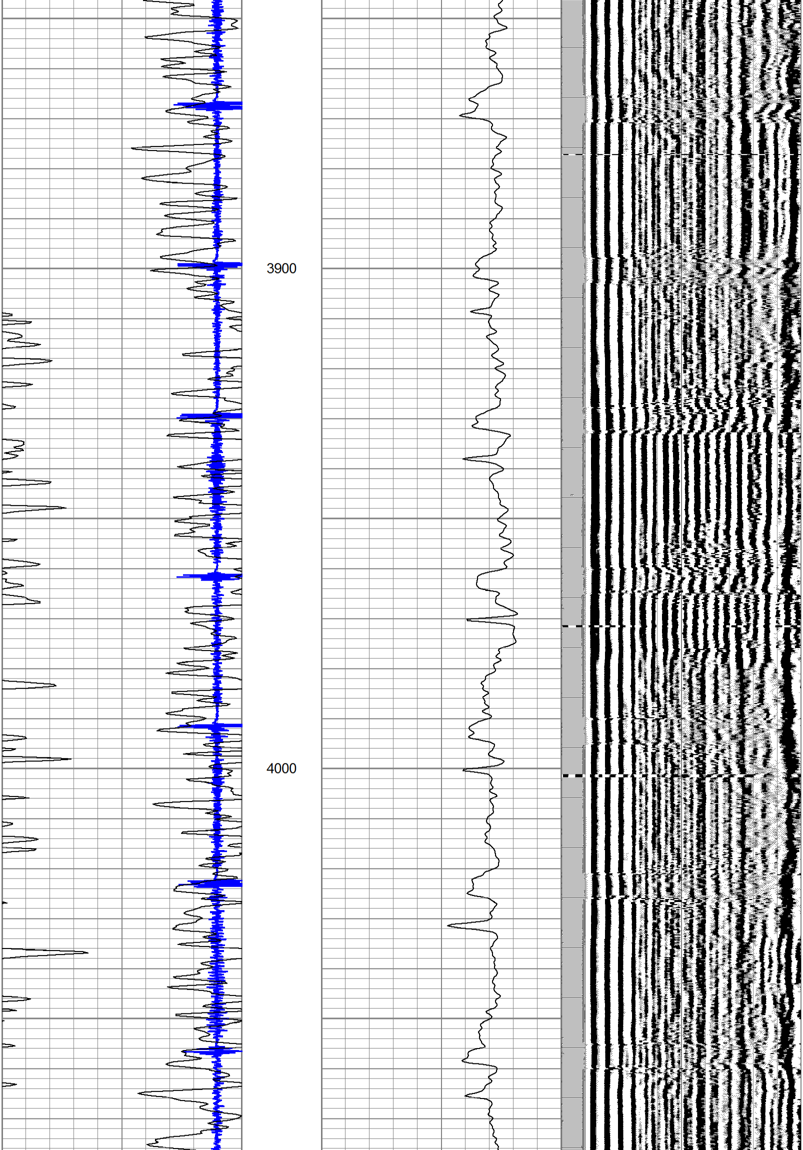


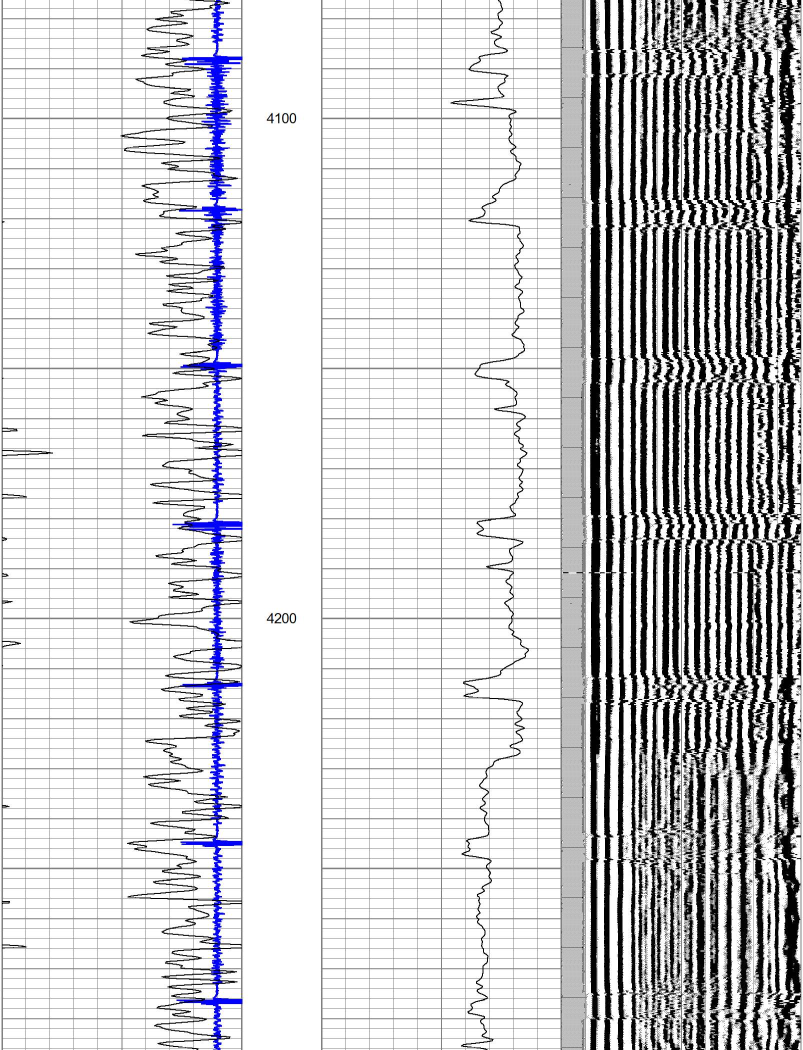


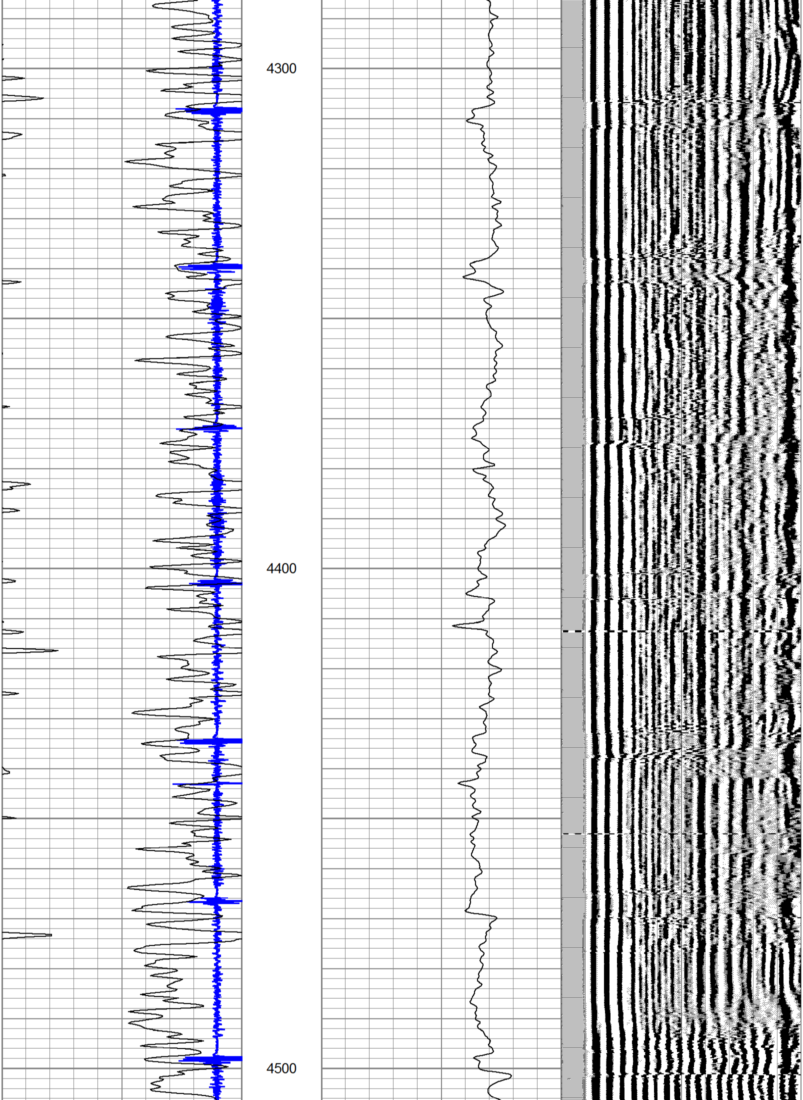


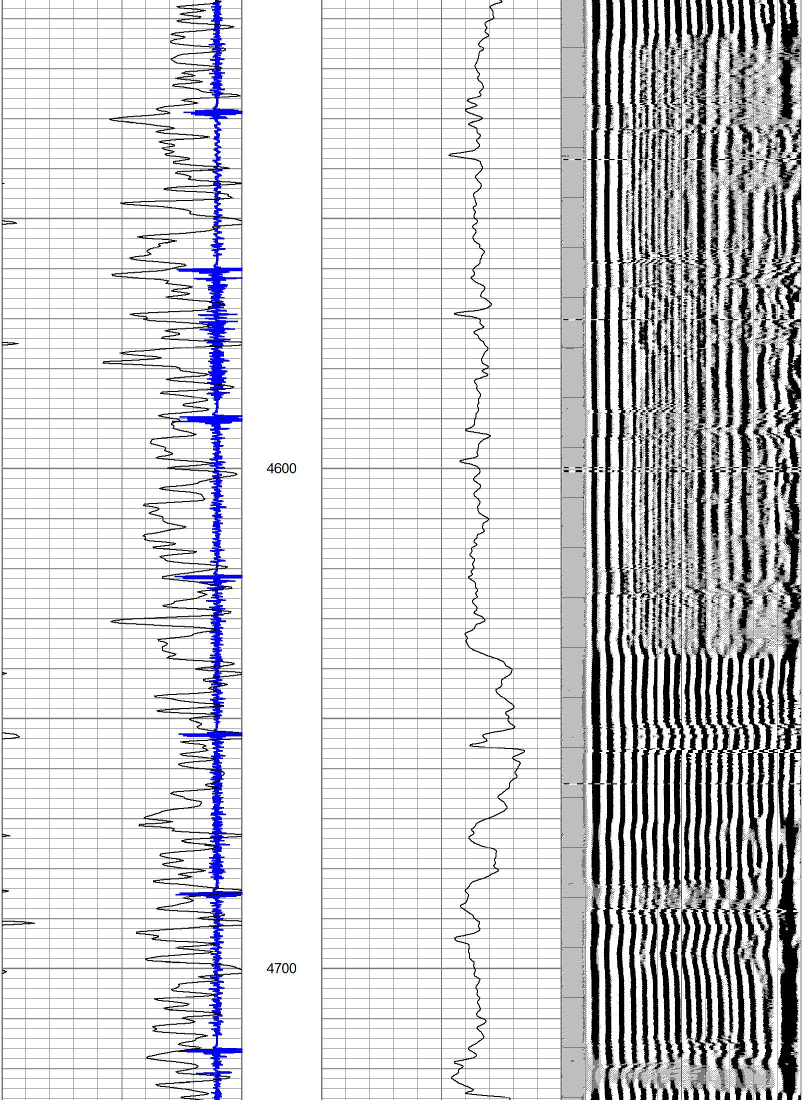


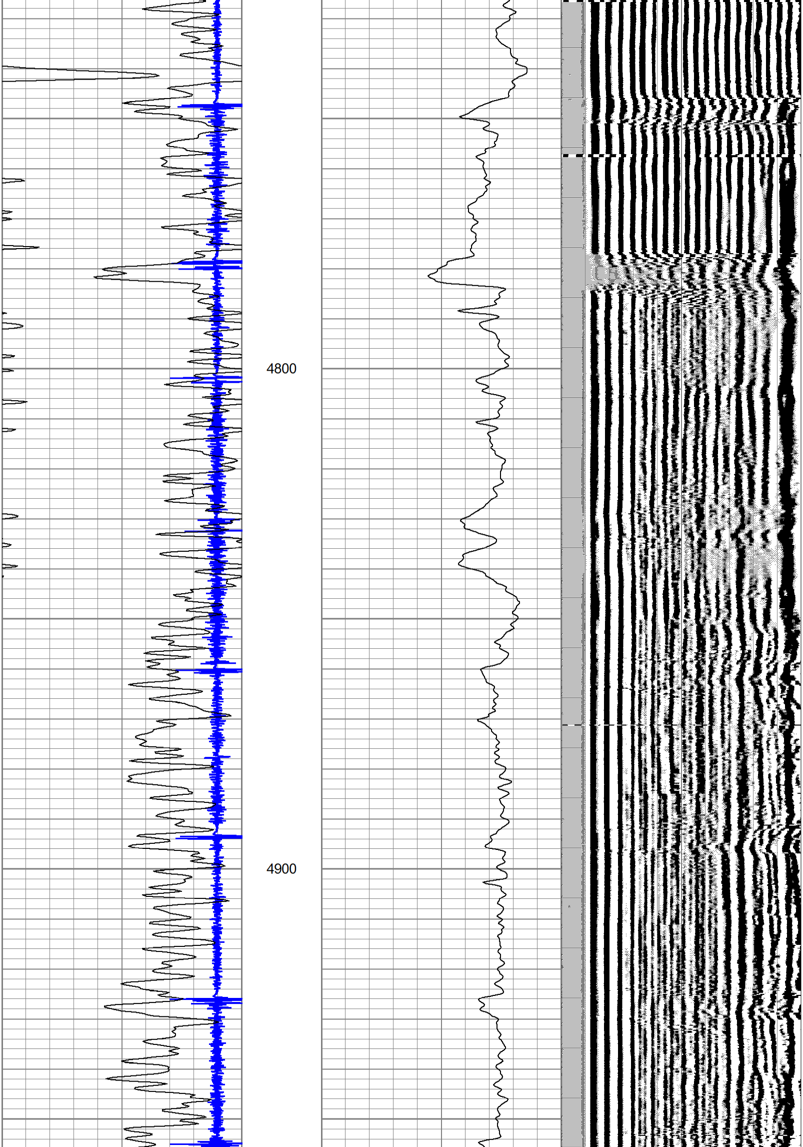


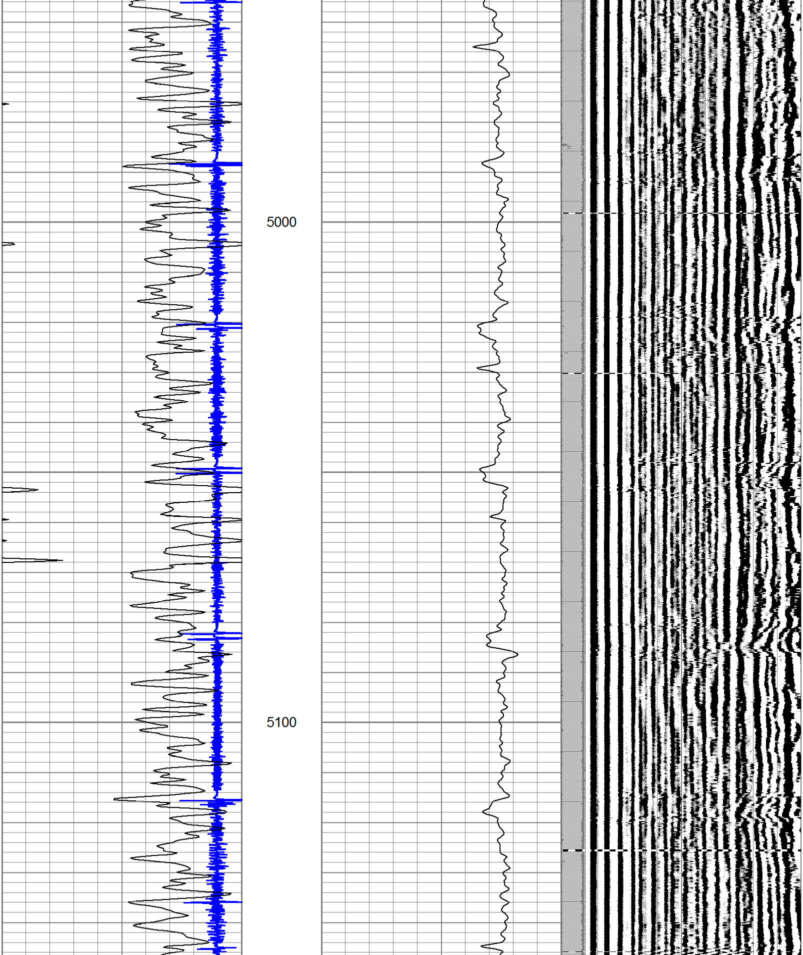


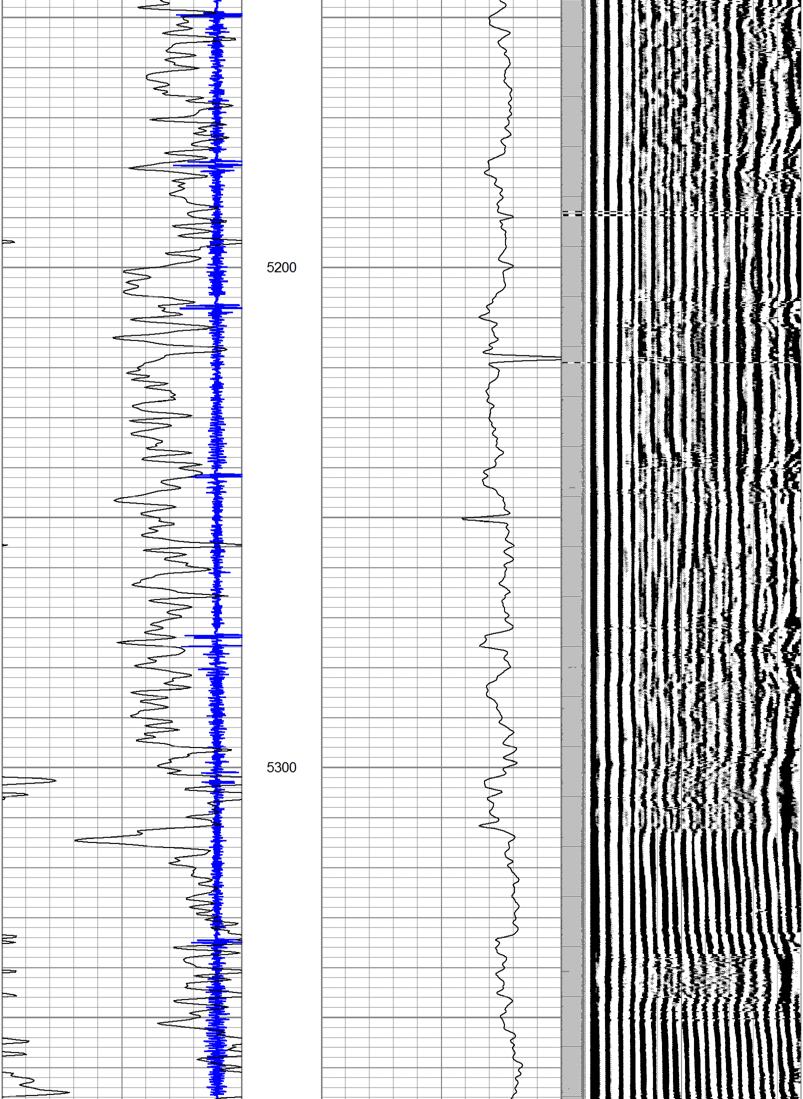


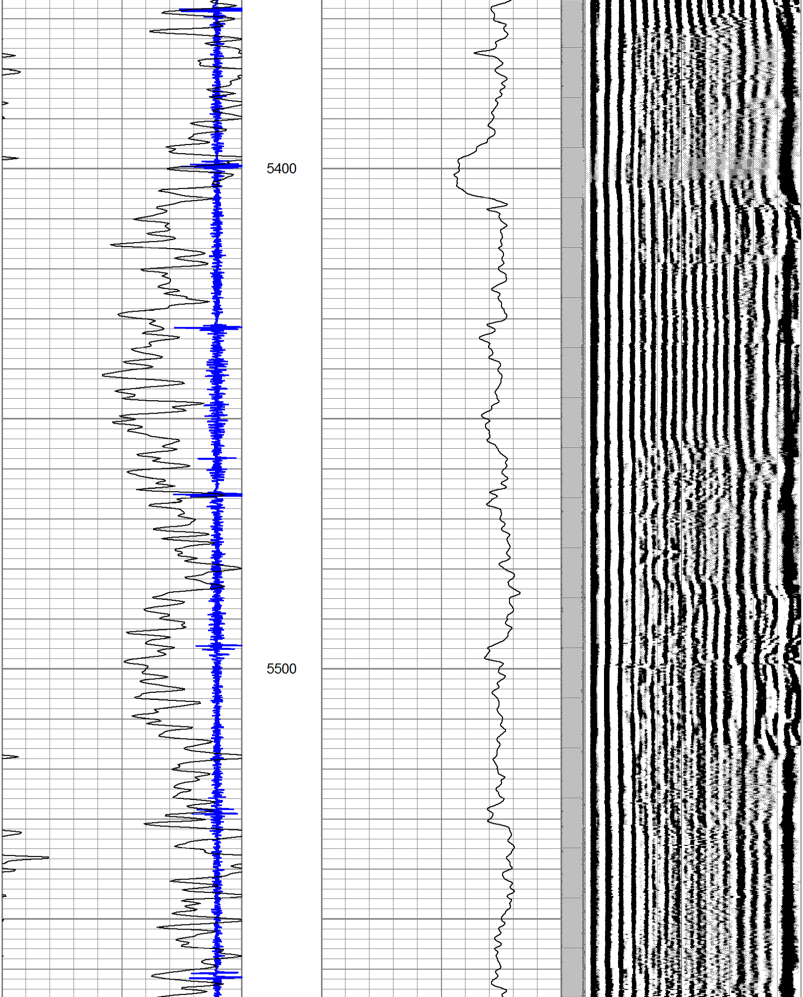


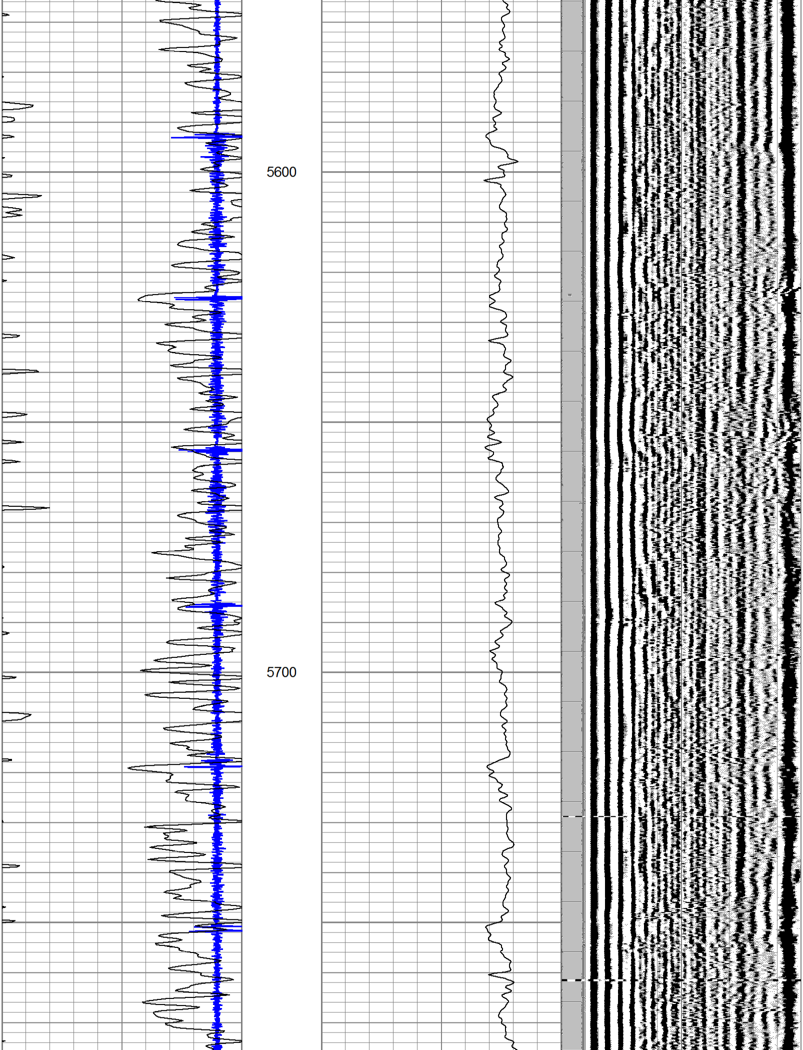


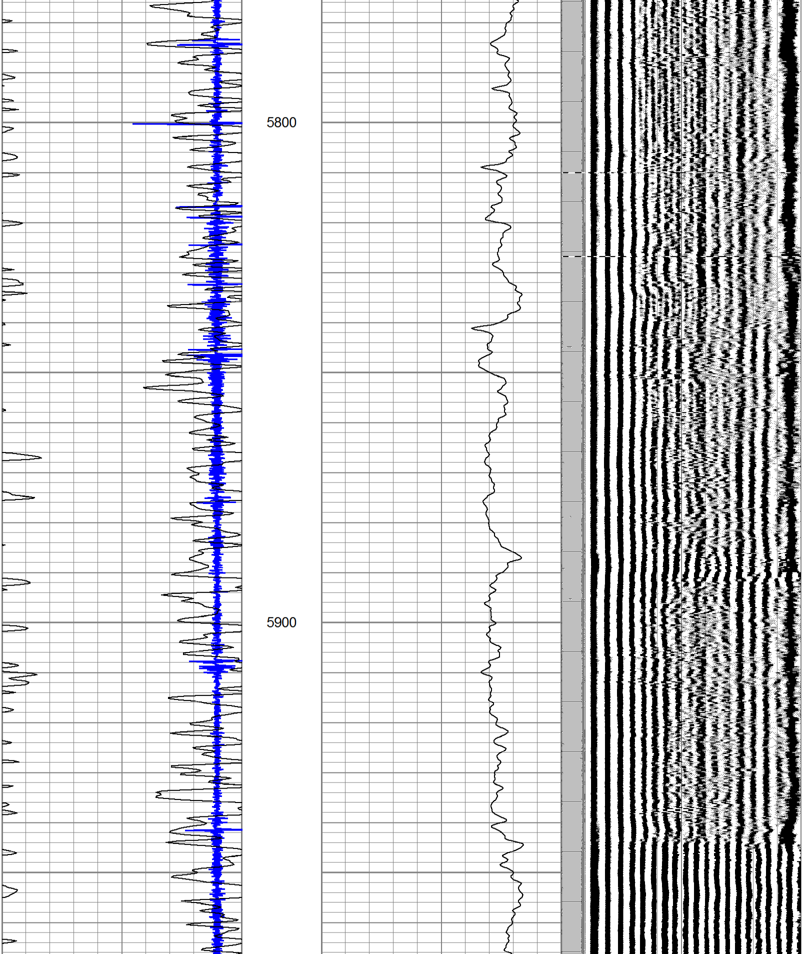


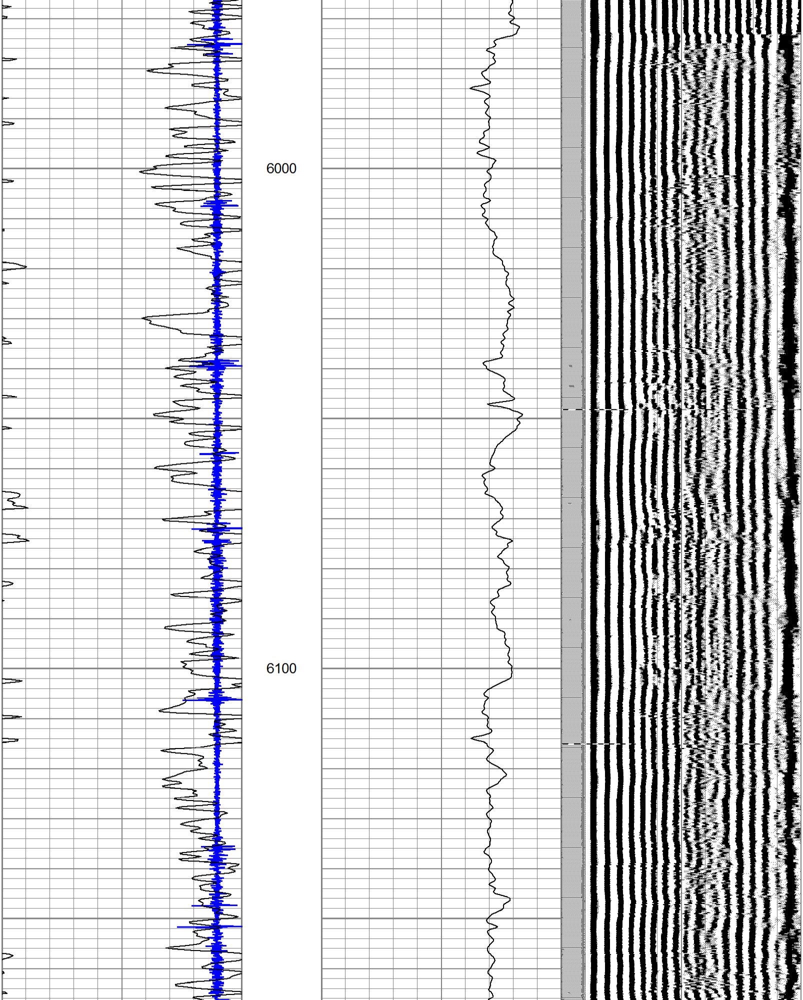


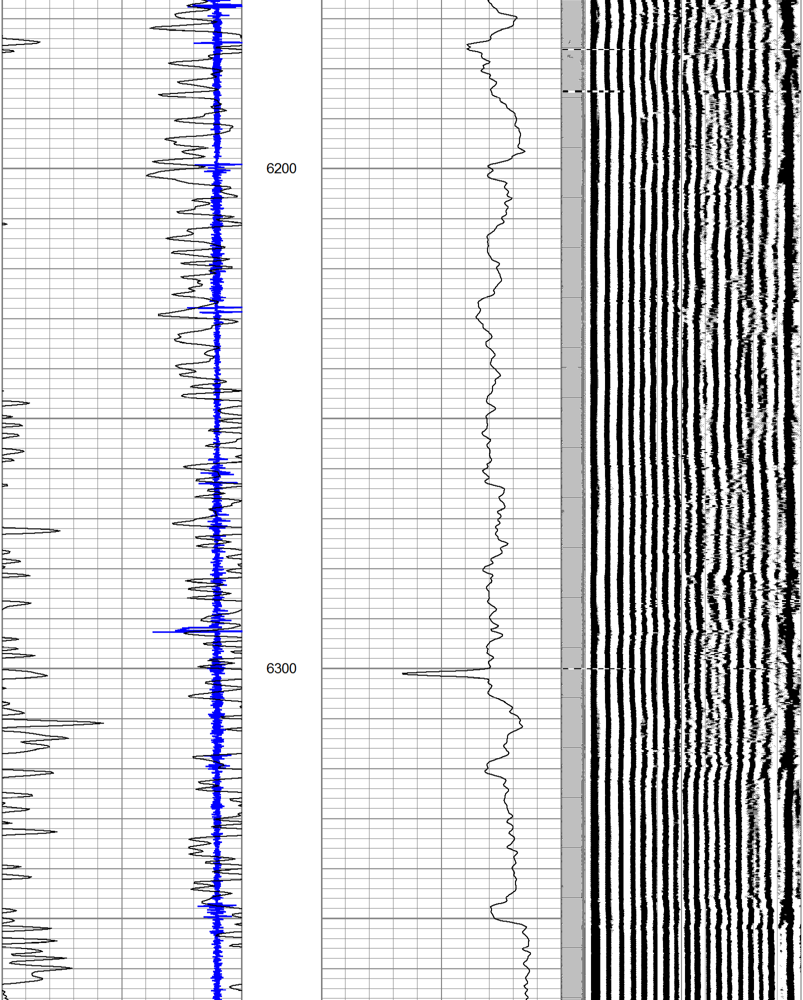


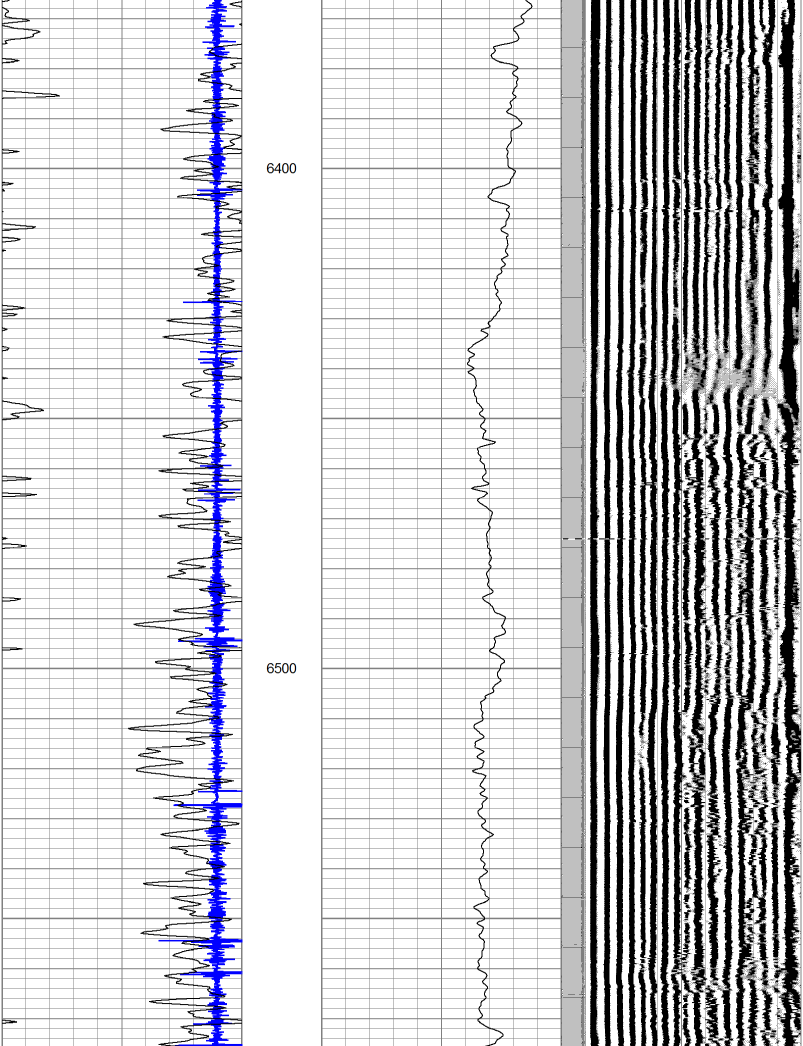


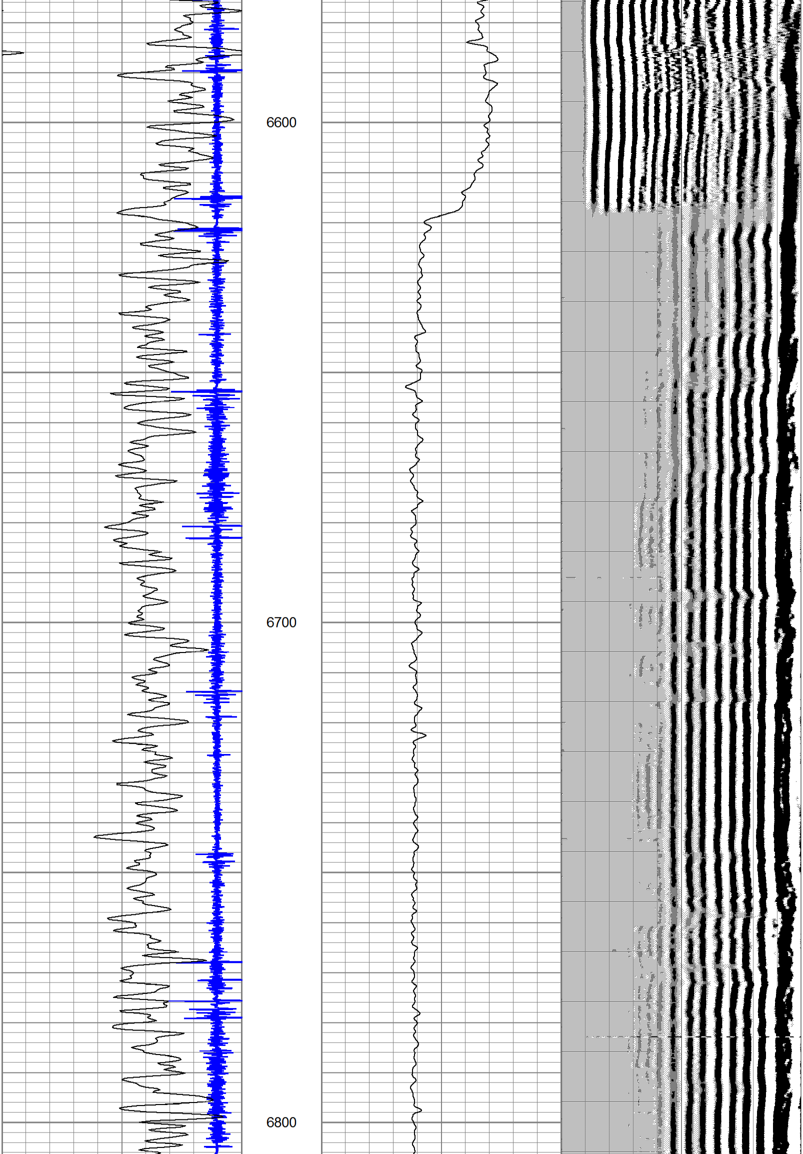


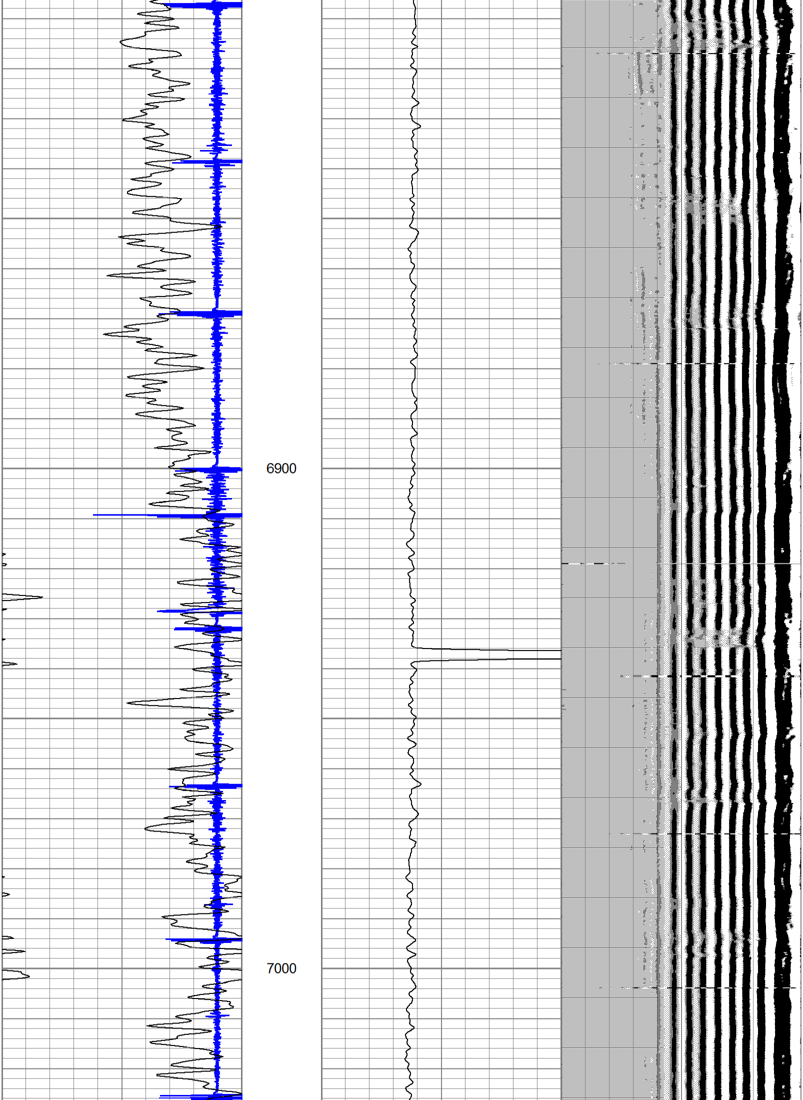


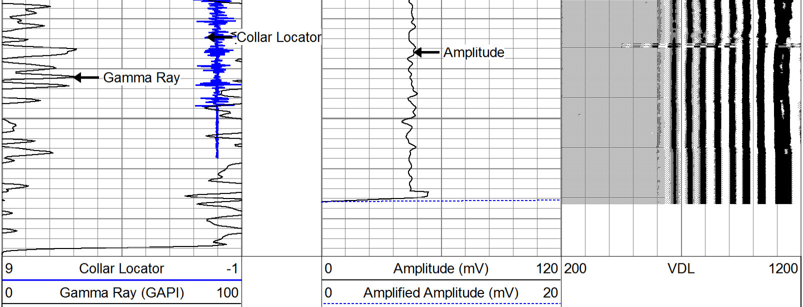












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