Pioneer Energy Services

Radial Cement Bond Log
Gamma Ray, CCL

Company Kerr-McGee Oil and Gas
Well Morning 39-10
Field Wattenberg
County Weld
State Colorado

Company	Kerr-McGee Oil and Gas		
Well	Morning 39-10		
Field	Wattenberg		
County	Weld	State	Colorado

Location:	API # : 0512324730 SE NE SEC 10 TWP 3N RGE 66	Other Services
Permanent Datum Log Measured From Drilling Measured From	Elevation	Elevation K.B. D.F. G.L.

Date	8/15/2014		
Run Number	one		
Depth Driller	n/a		
Depth Logger	5150'		
Bottom Logged Interval	2020'		
Top Log Interval	surface		
Open Hole Size	n/a		
Type Fluid	water		
Density / Viscosity	n/a		
Max. Recorded Temp.	n/a		
Estimated Cement Top	see log		
Time Well Ready	14:30		
Time Logger on Bottom	15:20		
Equipment Number	41		
Location	Ft. Morgan		
Recorded By	Cory Burns		
Witnessed By	Matt Agee		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625	24#	surface	626'
Prot. String				
Production String	4.5	11.6#	surface	7617'
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

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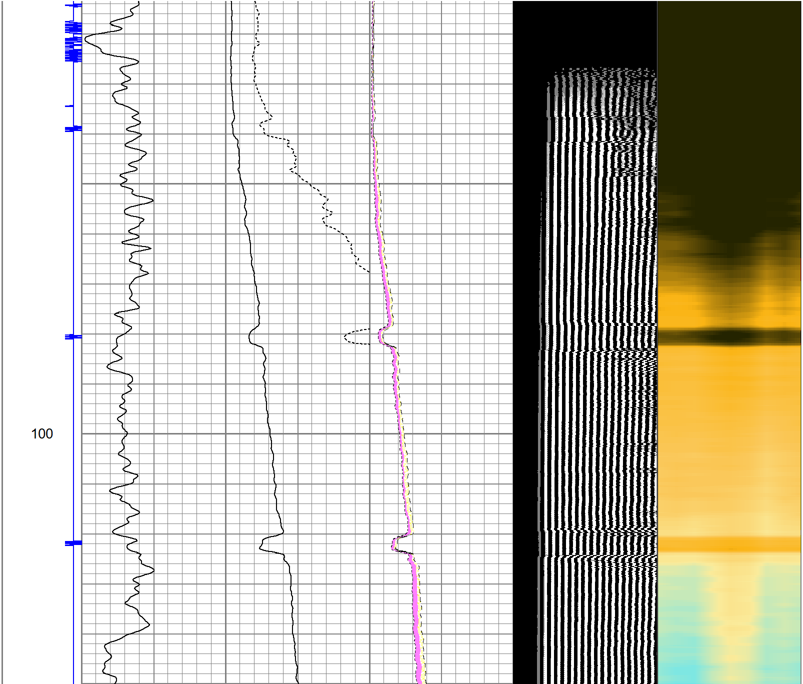
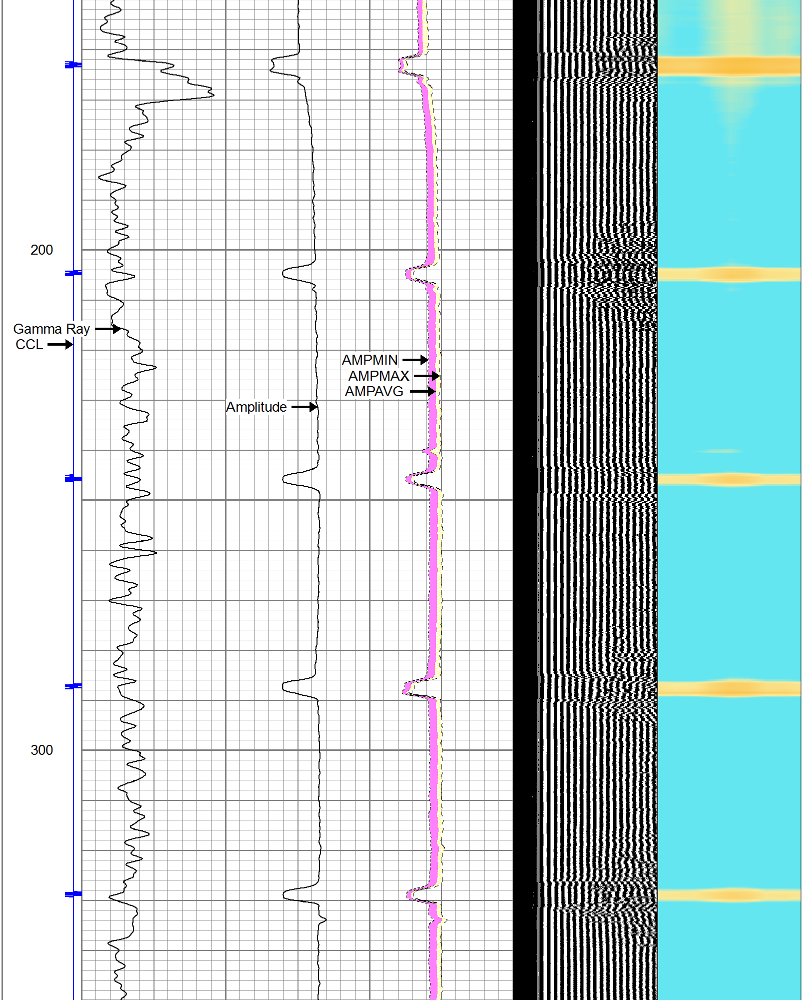
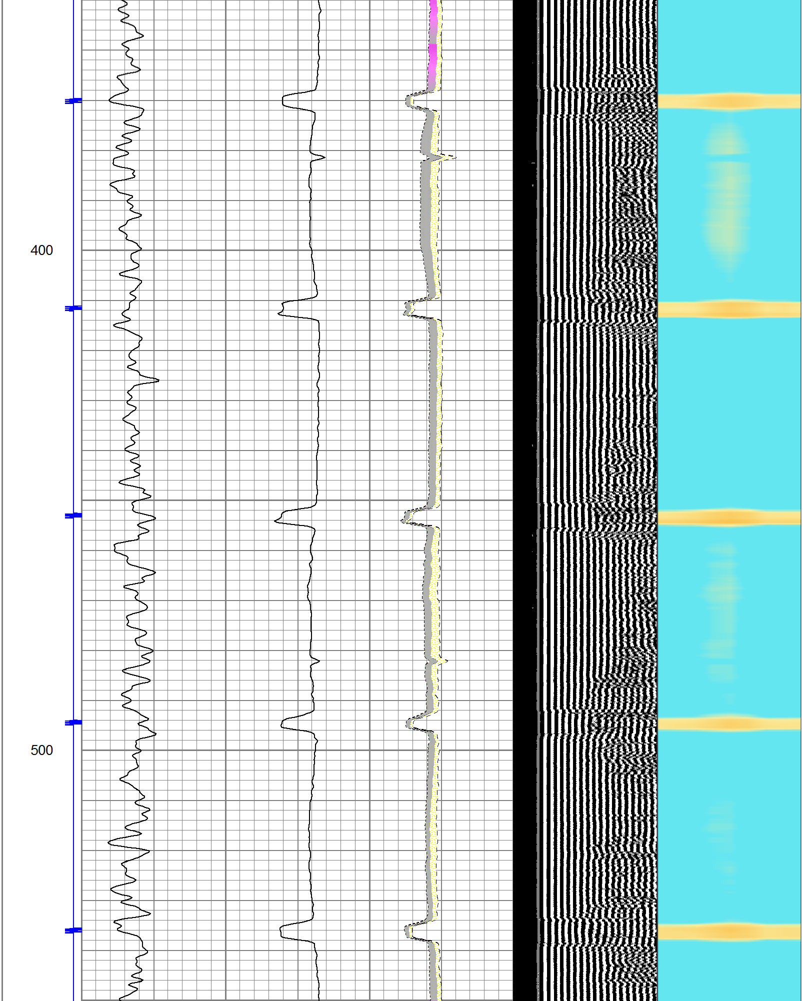
Log Corrilated to Bran-Dex cbl Dated April-6-2007

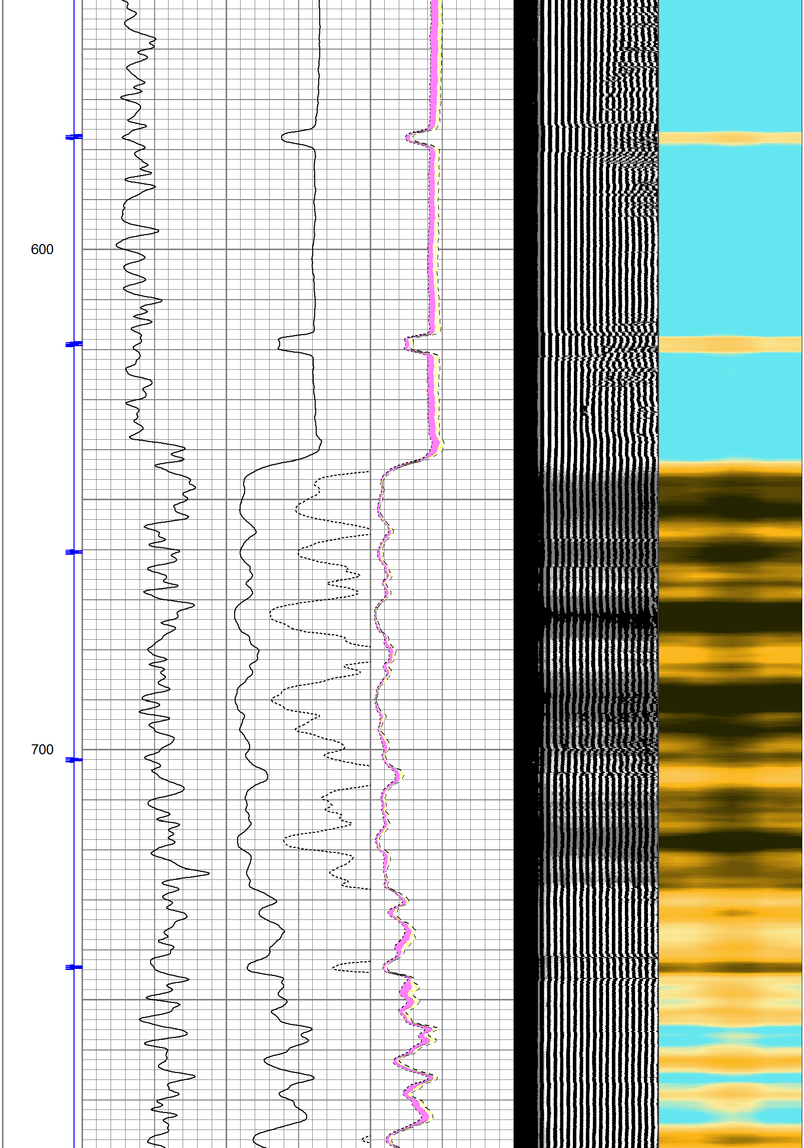
Database File:	morning 39-10.db
Dataset Pathname:	pass6.1
Presentation Format:	scbl02
Dataset Creation:	Fri Aug 15 16:17:53 2014 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240

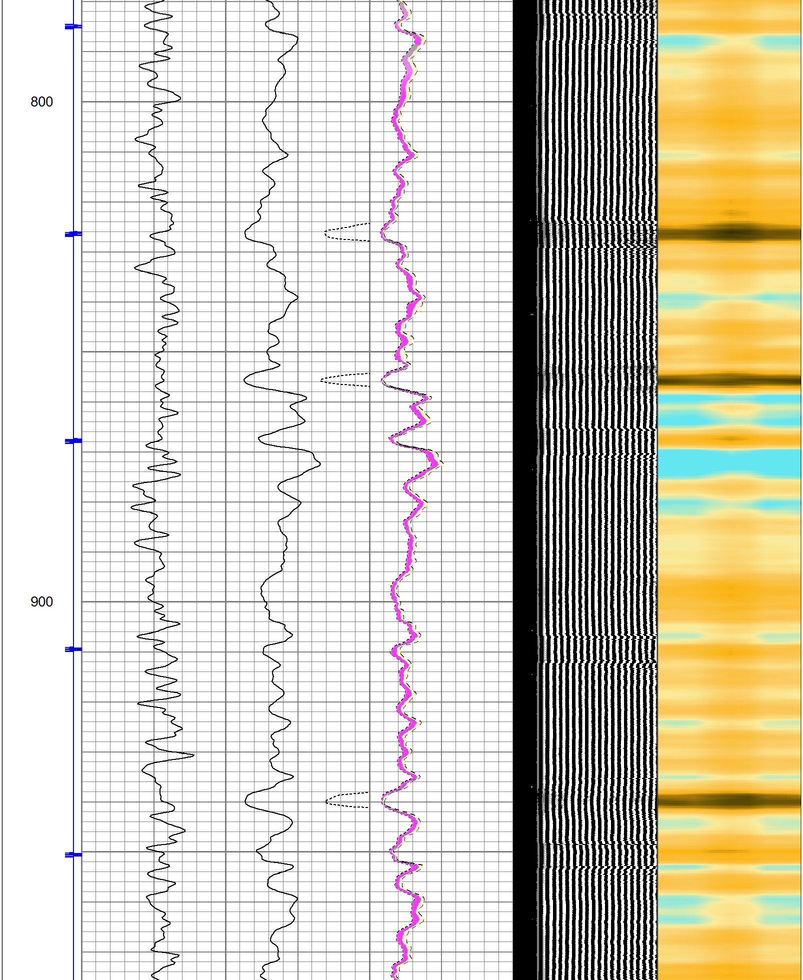
9 CCL -1	Gamma Ray 0 (GAPI) 200	0 Amplitude (mV)100 0 AMPx5 (mV) 20	0 AMPAVG 150 0 AMPMAX 150 0 AMPMIN 150	200 VDL 1200	1 SECTOR MAP 8 10 60

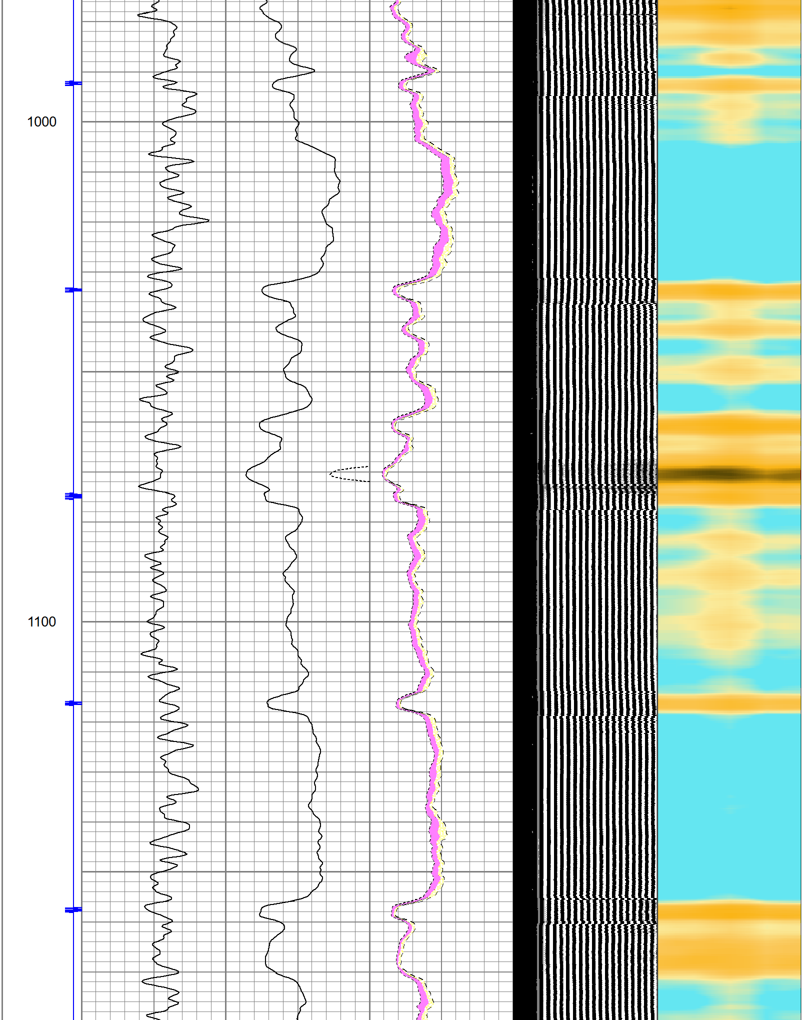


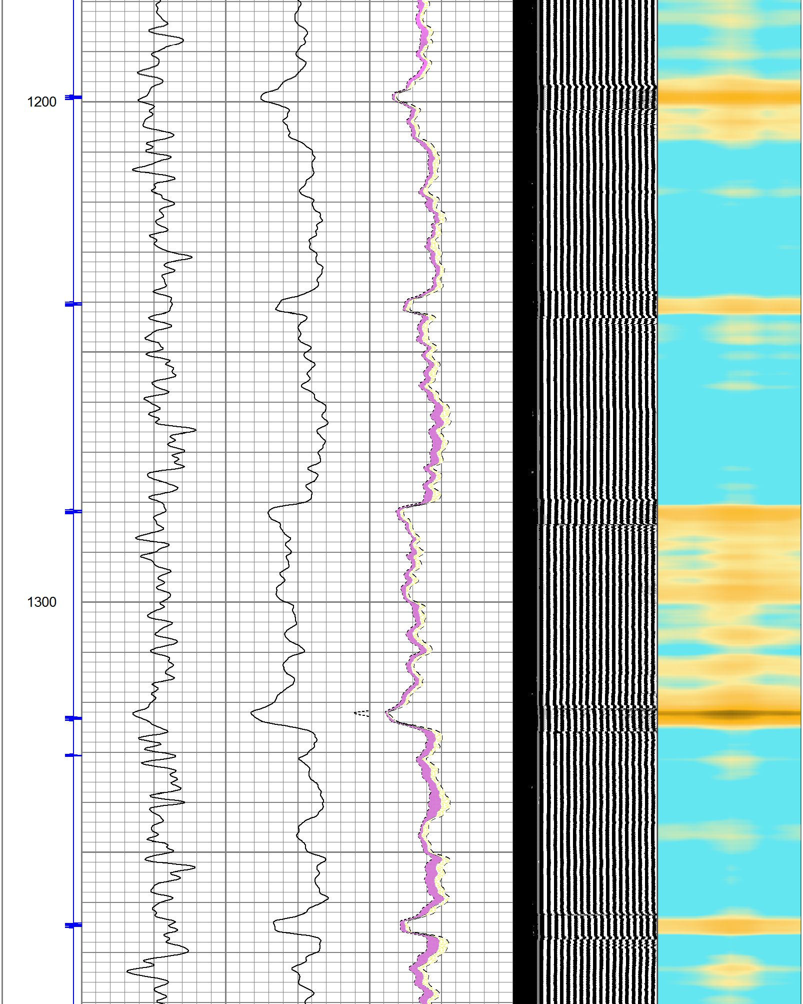


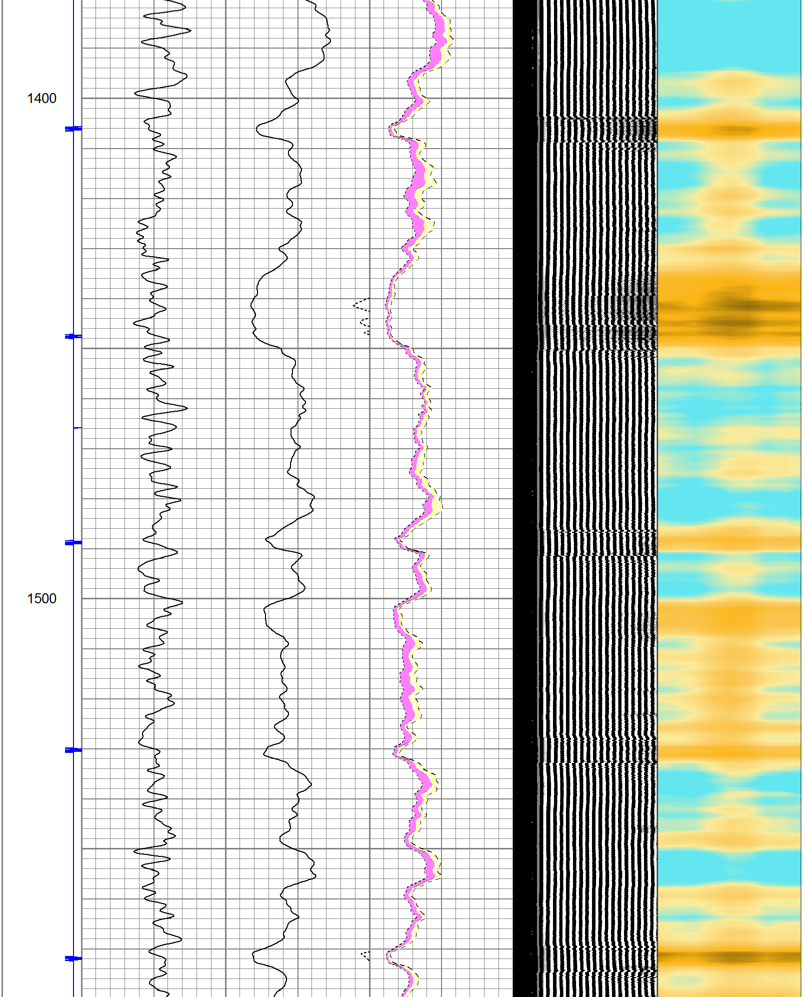


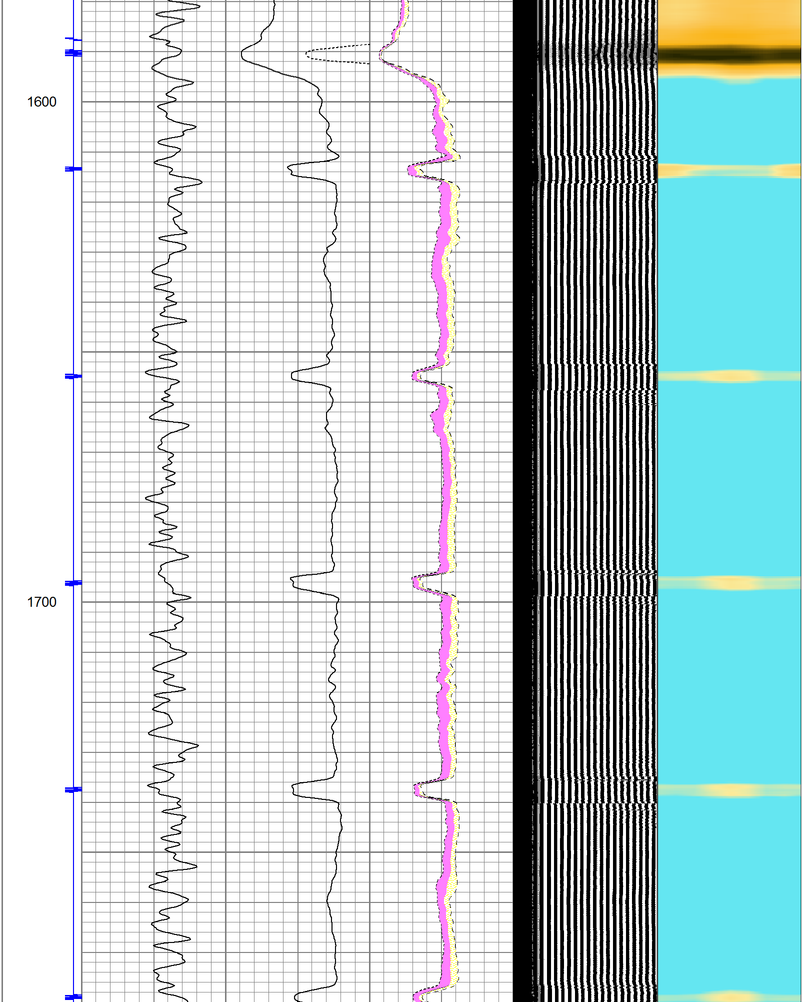


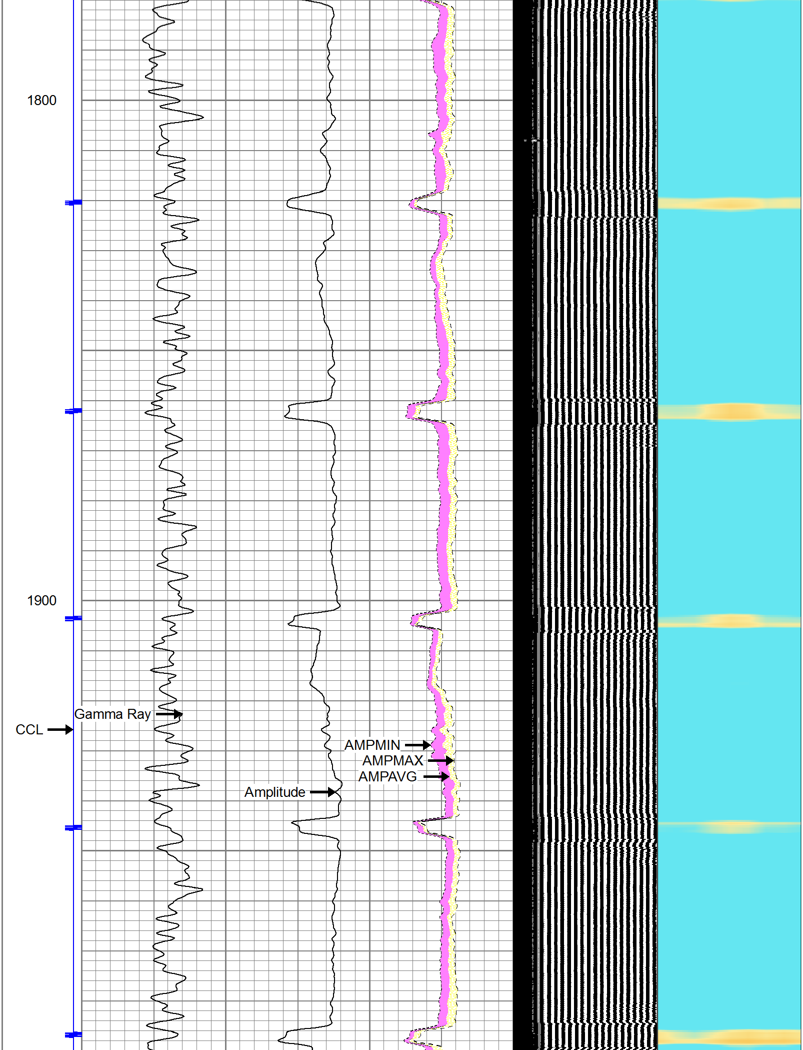


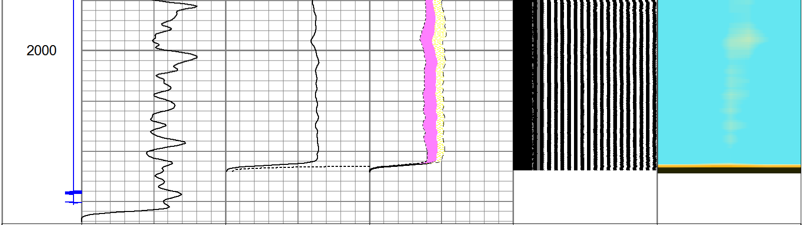












9 CCL -1	Gamma Ray	0 Amplitude (mV)100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
	0 (GAPI) 200	0 AMPx5 (mV) 20	0 AMPMAX 150		10 60
			0 AMPMIN 150		

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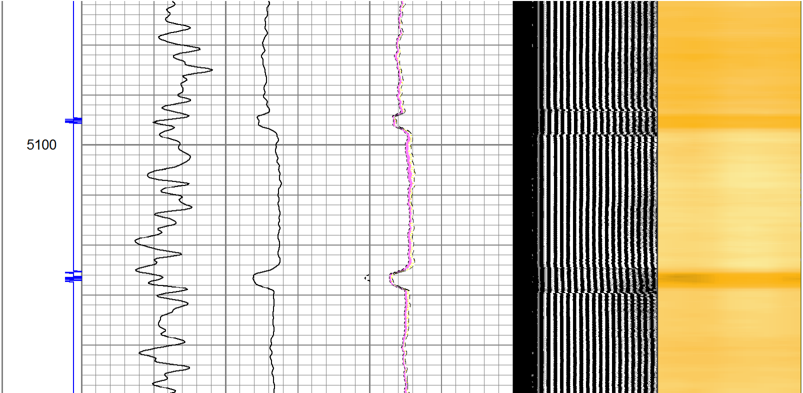
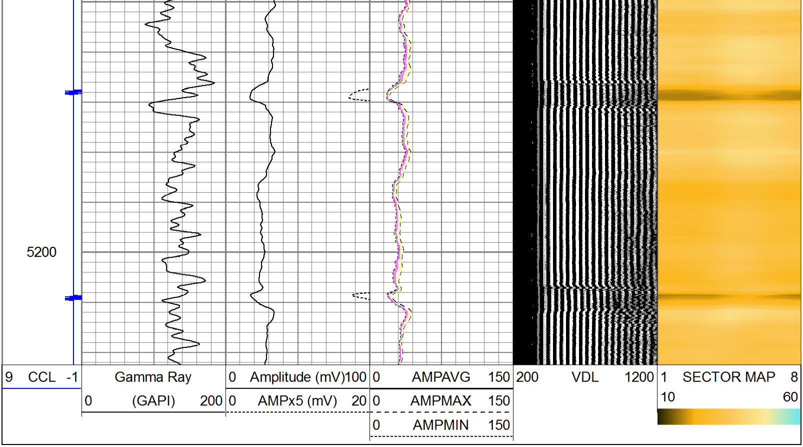
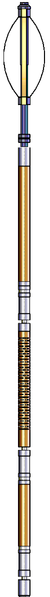
Corrilation Strip

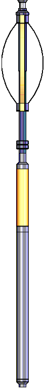
Database File:	morning 39-10.db
Dataset Pathname:	pass5
Presentation Format:	scbl02
Dataset Creation:	Fri Aug 15 15:43:43 2014 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

9 CCL -1	Gamma Ray	0 Amplitude (mV)100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
	0 (GAPI) 200	0 AMPx5 (mV) 20	0 AMPMAX 150		10 60
			0 AMPMIN 150		





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 10.63		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00

			PTS275	2.83	2.75	
CCL	3.63		GR_CCL-Probe (111211) Probe Gamma CCL	4.54	2.75	100.00
GR	2.30					

Dataset: morning 39-10.db: field/well/run1/pass6
Total Length: 19.13 ft
Total Weight: 190.00 lb
O.D. 2.75 in

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Company	Kerr-McGee Oil and Gas
Well	Morning 39-10
Field	Wattenberg
County	Weld
State	Colorado