PEAK WIRELINE SERVICES, INC.

RADIAL CEMENT BOND LOG

Company WIEPKING-FULLERTON ENERGY LLC
Well MAHALO #11
Field GREAT PLAINS
County LINCOLN
State COLORADO

Company	WIEPKING-FULLERTON ENERGY, LLC.
Well	MAHALO #11
Field	GREAT PLAINS
County	LINCOLN
State	COLORADO

Location
2080' FSL & 660' FWL
NW SW
SEC 29 TWP 10S RGE 55W

Other Services

Permanent Datum	GROUND LEVEL	Elevation	5217
Log Measured From	KELLY BUSHING 13' AGL		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 5230
D.F. 5229
G.L. 5217

Date	11-9--2012		
Run Number	ONE		
Depth Driller	7920		
Depth Logger	7679		
Bottom Logged Interval	7675		
Top Log Interval	6230		
Casing Size	5 1/2"		
Type Fluid	WATER		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top	6370		
Time Well Ready			
Time Logger on Bottom			
Equipment Number	TR-8		
Location	CHEYENNE WELLS, CO.		
Recorded By	HENDERSON		
Witnessed By	BUBBA HALDE	TOM FULLERTON	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12 1/4"	0	308				
TWO	7 7/8"	308	7920				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24#	0	308
Prot. String				
Production String	5 1/2"	17#	0	7910
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.

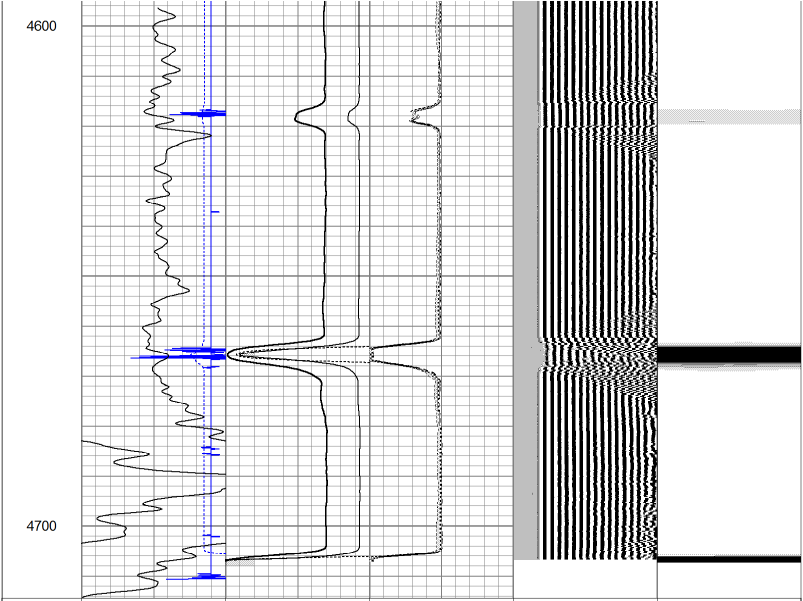
Comments

PEAK WIRELINE SERVICES, INC.

PORT COLLAR

Database File: mahalo.db
Dataset Pathname: 11/run1/pass3
Presentation Format: scbl02
Dataset Creation: Fri Nov 09 14:19:05 2012 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

800 TT (usec) 200	0 AMP (mV) 100	-2 AMPAVG 200	200 VDL 1200	1 Cement Map 8
-9 CCL 1	0 AMPx5 (mV) 20	-2 AMPMAX 200		
0 GR (GAPI) 150	1 Bond Index 0	-2 AMPMIN 200		
150 GR (GAPI) 300				



800 TT (usec) 200	0 AMP (mV) 100	-2 AMPAVG 200	200 VDL 1200	1 Cement Map 8
-9 CCL 1	0 AMPx5 (mV) 20	-2 AMPMAX 200		
0 GR (GAPI) 150	1 Bond Index 0	-2 AMPMIN 200		
150 GR (GAPI) 300				

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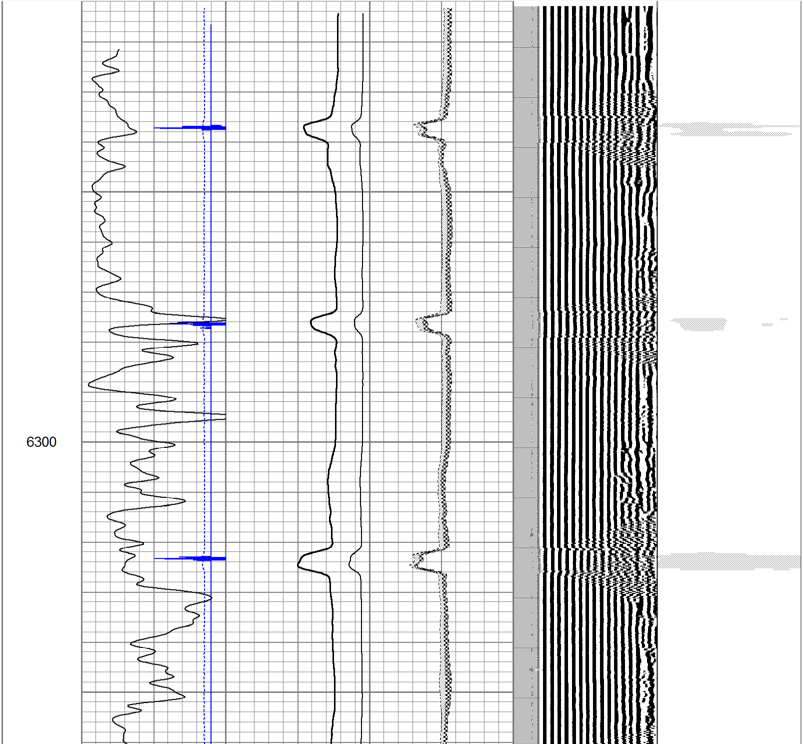
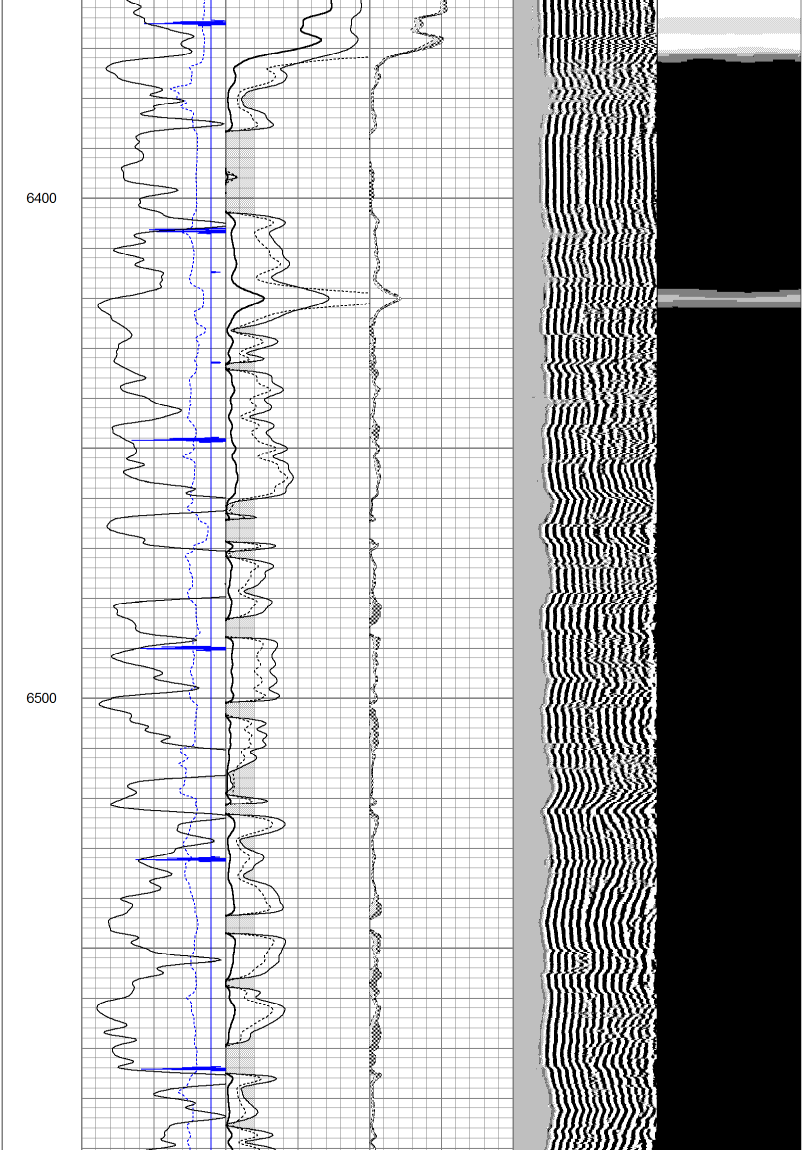
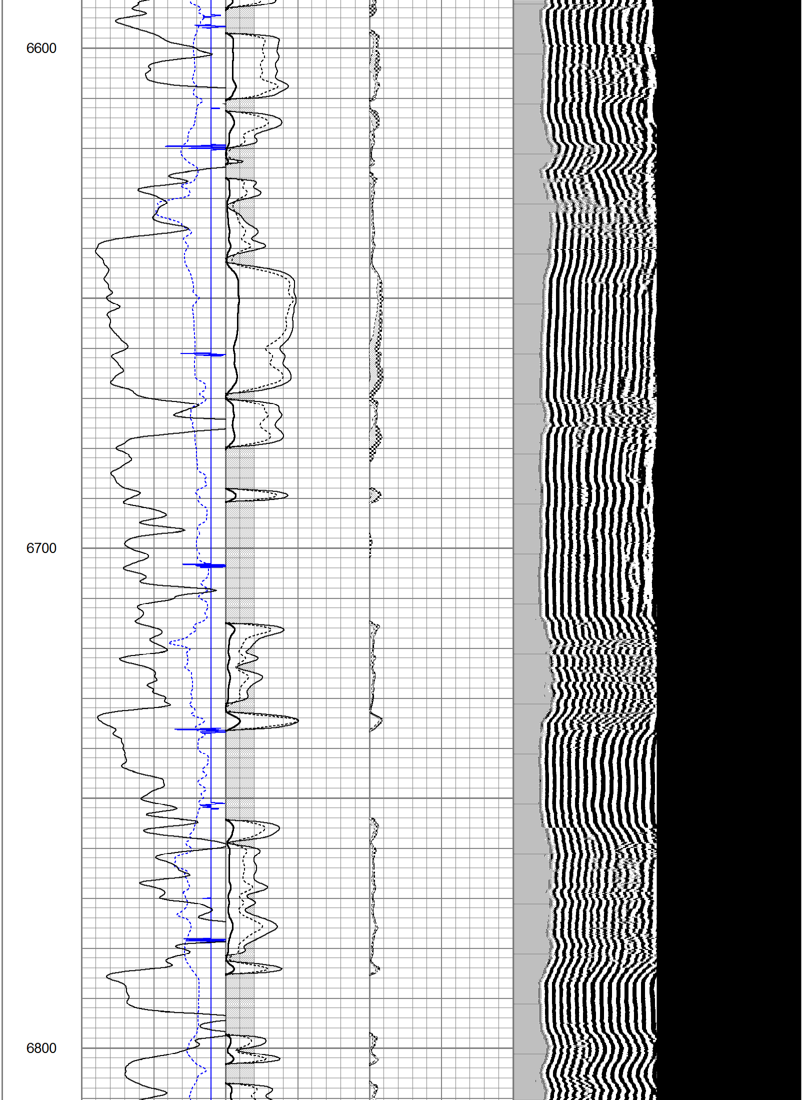
MAIN PASS

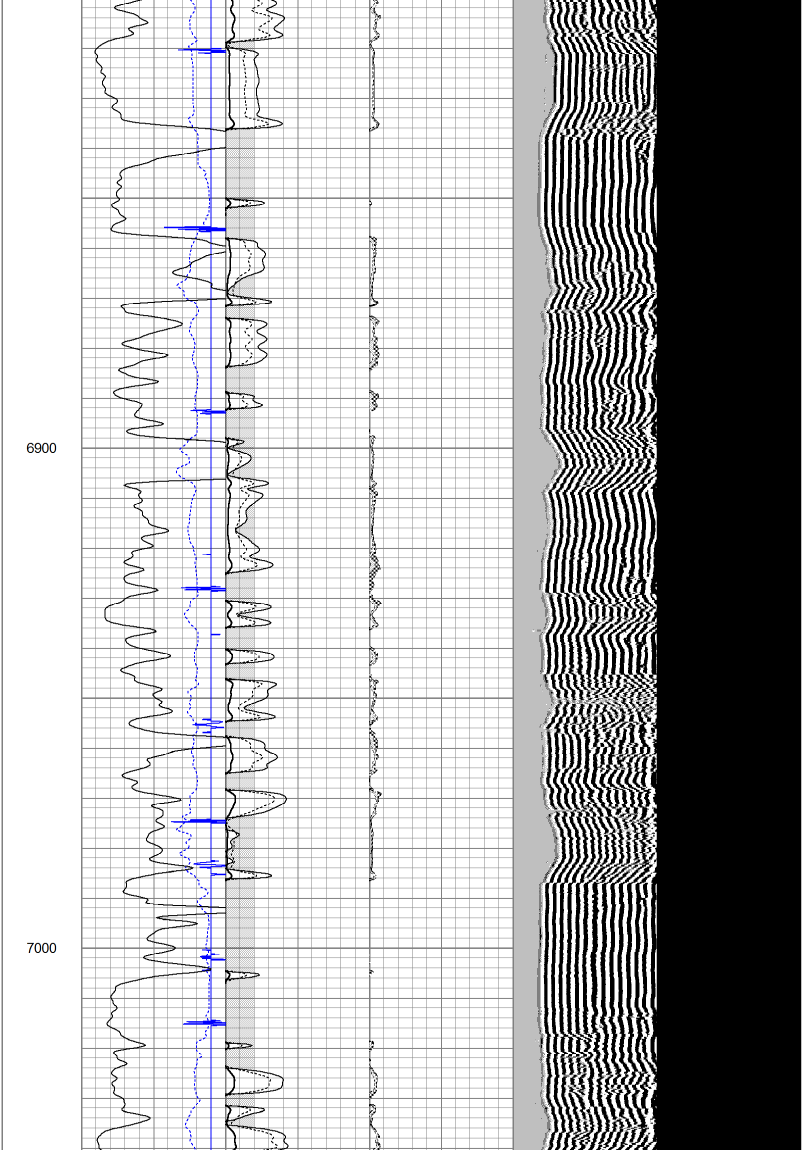
Database File:	mahalo.db
Dataset Pathname:	7/run1/pass2.3
Presentation Format:	scbl02
Dataset Creation:	Fri Nov 09 14:54:14 2012
Charted by:	Depth in Feet scaled 1:240

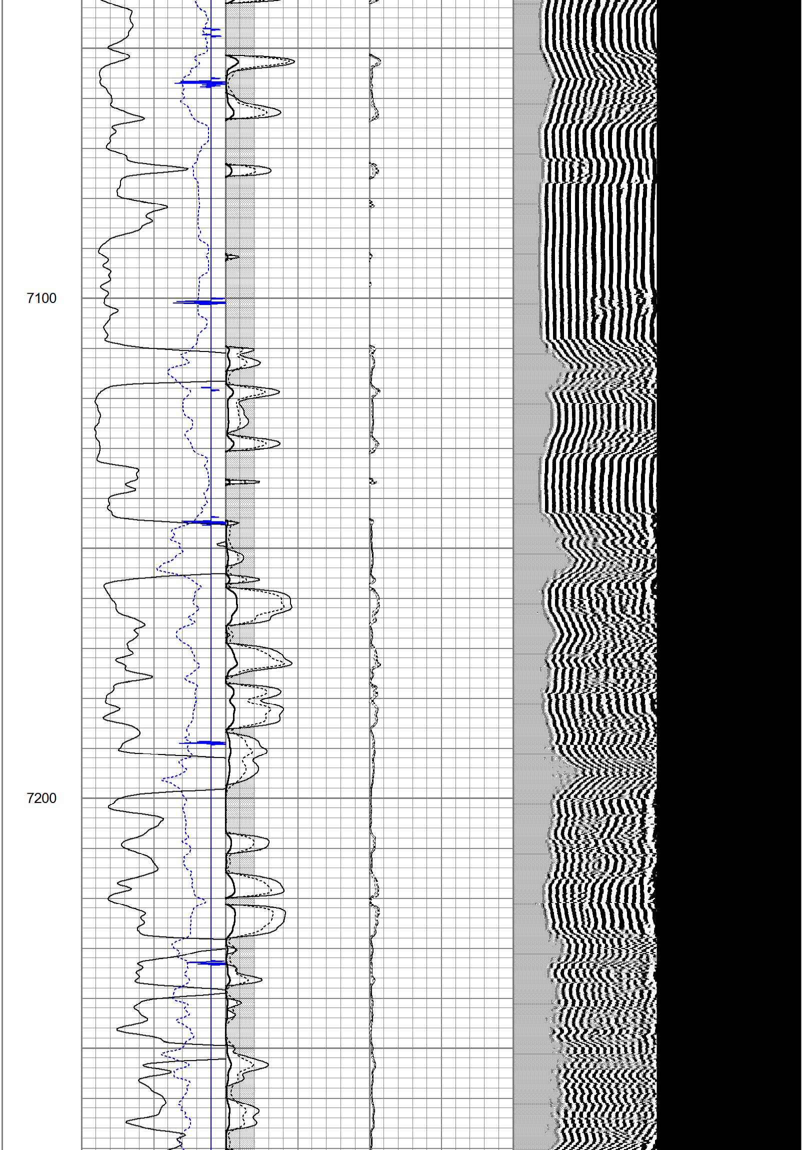
800 TT (usec) 200	0 AMP (mV) 100	-2 AMPAVG 200	200 VDL 1200	1 Cement Map 8
-9 CCL 1	0 AMPx5 (mV) 20	-2 AMPMAX 200		
0 GR (GAPI) 150	1 Bond Index 0	-2 AMPMIN 200		

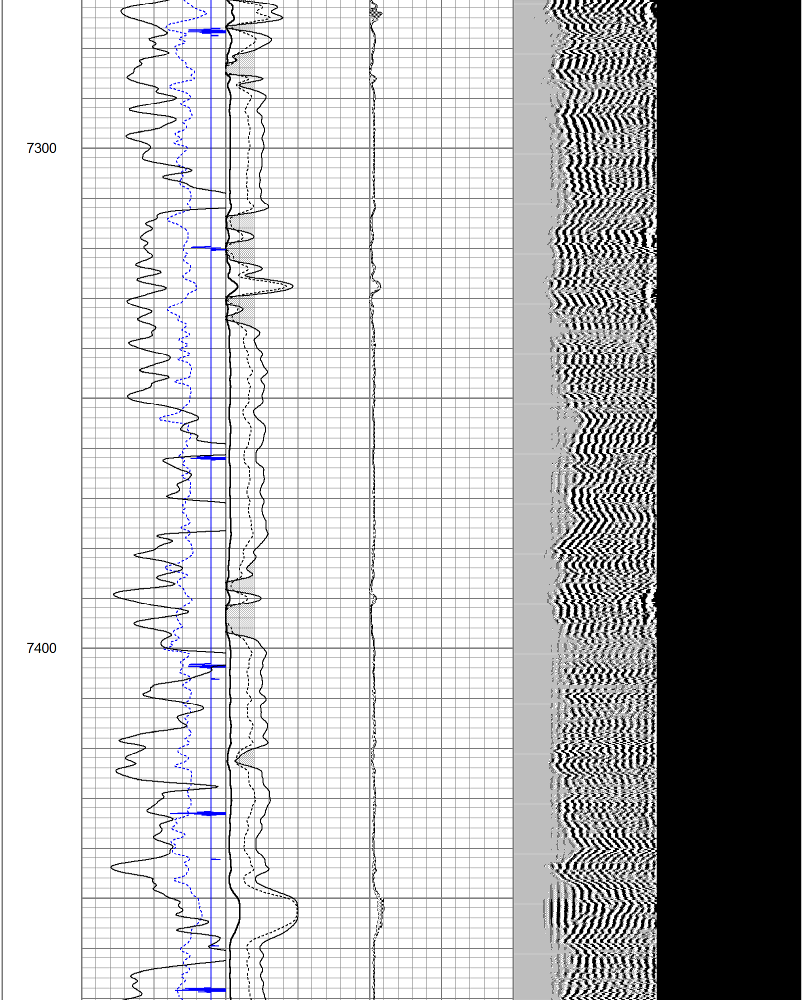


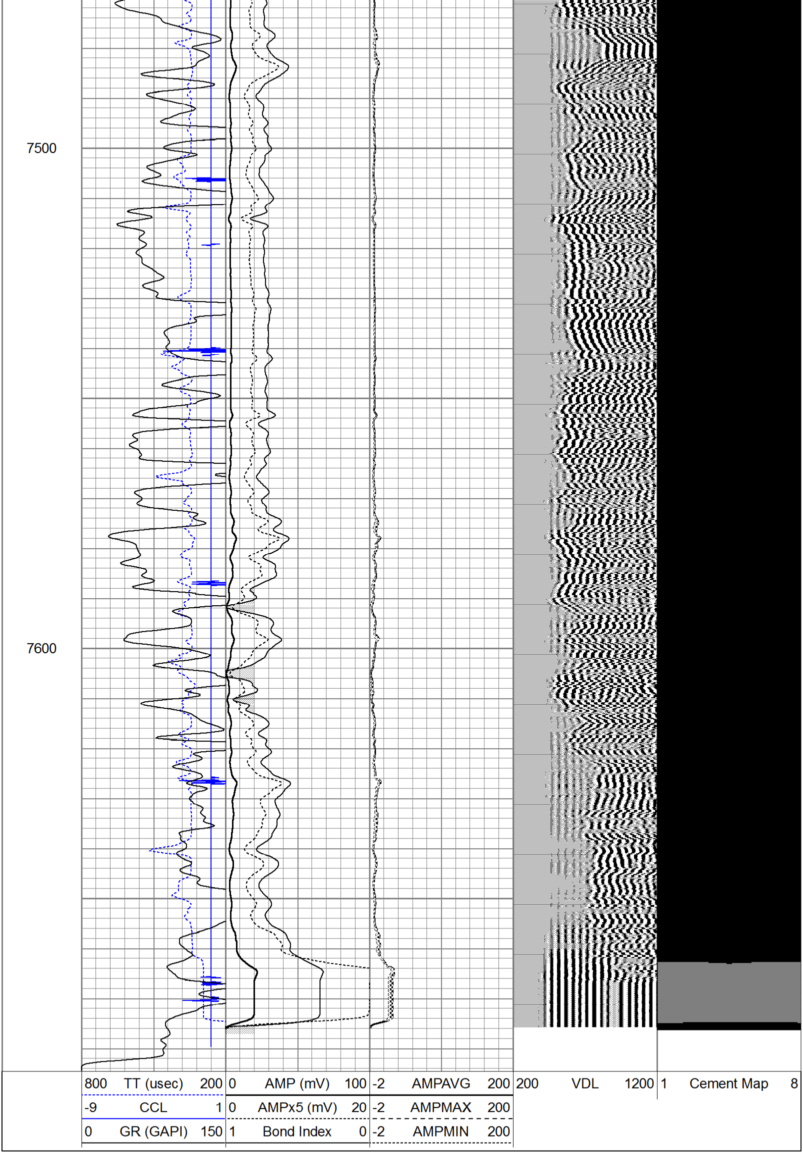












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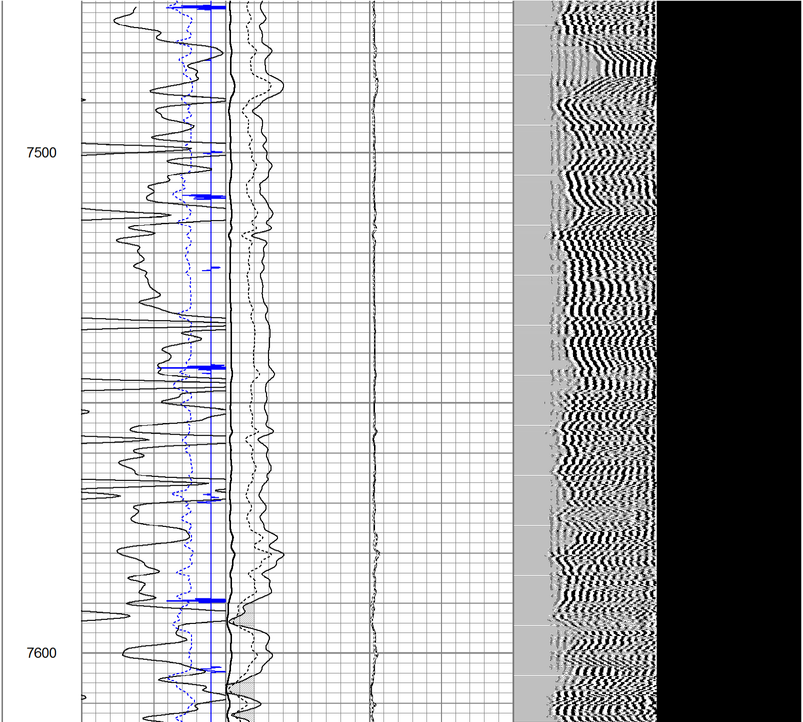
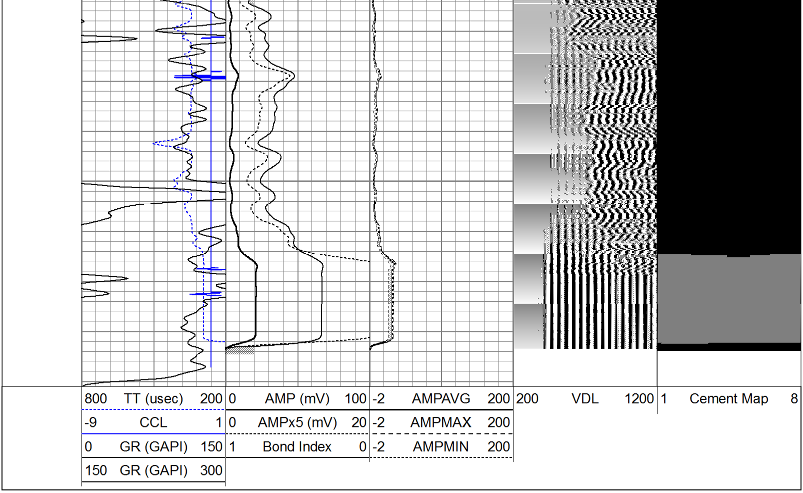
Database File:	mahalo.db
Dataset Pathname:	11/run1/pass1
Presentation Format:	scbl02
Dataset Creation:	Fri Nov 09 13:28:26 2012 by Log Std Casedhole 10071
Charted by:	Depth in Feet scaled 1:240

800 TT (usec) 200	0 AMP (mV) 100	-2 AMPAVG 200	200 VDL 1200	1 Cement Map 8
-9 CCL 1	0 AMPx5 (mV) 20	-2 AMPMAX 200		
0 GR (GAPI) 150	1 Bond Index 0	-2 AMPMIN 200		
150 GR (GAPI) 300				





Calibration Report

Database File: mahalo.db
Dataset Pathname: 11/run1/pass2.2
Dataset Creation: Fri Nov 09 14:42:39 2012 by Calc Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Fri Nov 09 13:29:36 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	85.8	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	4.5040904	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	4561.533	ft

Master Calibration, performed Fri Nov 09 13:13:27 2012:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.014	1.536	0.000	71.921	47.249	-0.655
CAL	1.897	1.862				
5'	0.011	1.349	0.000	71.921	53.745	-0.567
SUM						
S1	-0.013	1.623	0.000	100.000	61.125	0.795
S2	-0.053	1.600	0.000	100.000	60.496	3.206
S3	0.071	1.628	0.000	100.000	64.226	-4.560
S4	-0.063	1.684	0.000	100.000	57.241	3.606

S5	0.053	1.702	0.000	100.000	60.643	-3.214
S6	0.179	1.702	0.000	100.000	65.660	-11.753
S7	0.210	1.673	0.000	100.000	68.353	-14.354
S8	0.112	1.639	0.000	100.000	65.488	-7.335

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.897	1.862	1.000	0.000

Air Zero Calibration, performed Fri Nov 09 12:56:49 2012:

	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