PEAK WIRELINE SERVICES, INC.

RADIAL CEMENT BOND LOG

Company	WIEPKING-FULLERTON ENERGY, LLC.
Well	MA-STATE #6
Field	GREAT PALINS
County	LINCOLN
State	COLORADO

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Well	MA-STATE #6
Field	GREAT PLAINS
County	LINCOLN
State	COLORADO
Location	1980' FNL & 600' FWL SW NW SEC 24 TWP 10S RGE 56W
Other Services	

Permanent Datum	GROUND LEVEL	Elevation 5302	Elevation
Log Measured From	KELLY BUSHING 13' AGL		K.B. 5315
Drilling Measured From	KELLY BUSHING		D.F. 5314 G.L. 5302

Date	5-1-2014	
Run Number	ONE	
Depth Driller	8060	
Depth Logger	8020	
Bottom Logged Interval	8016	4876
Top Log Interval	5280	2850
Casing Size	5 1/2"	
Type Fluid	WATER	
Density / Viscosity		
Max. Recorded Temp.		
Estimated Cement Top		
Time Well Ready		
Time Logger on Bottom		
Equipment Number	TR-8	
Location	CHEYENNE WELLS, CO.	
Recorded By	HENDERSON	
Witnessed By	BUBBA HALDE	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12 1/4"	0	313				
TWO	7 7/8"	309	8060				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24#	0	313
Prot. String				
Production String	5 1/2"	17#	0	8050
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:	mastate6.db
Dataset Pathname:	pass3
Presentation Format:	scbl02
Dataset Creation:	Thu May 01 09:02:29 2014 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)	200	1	Bond Index	0	-2	AMPMIN	200						
200	(null) (GAPI)	400												

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)	200	1	Bond Index	0	-2	AMPMIN	200						
200	(null) (GAPI)	400												

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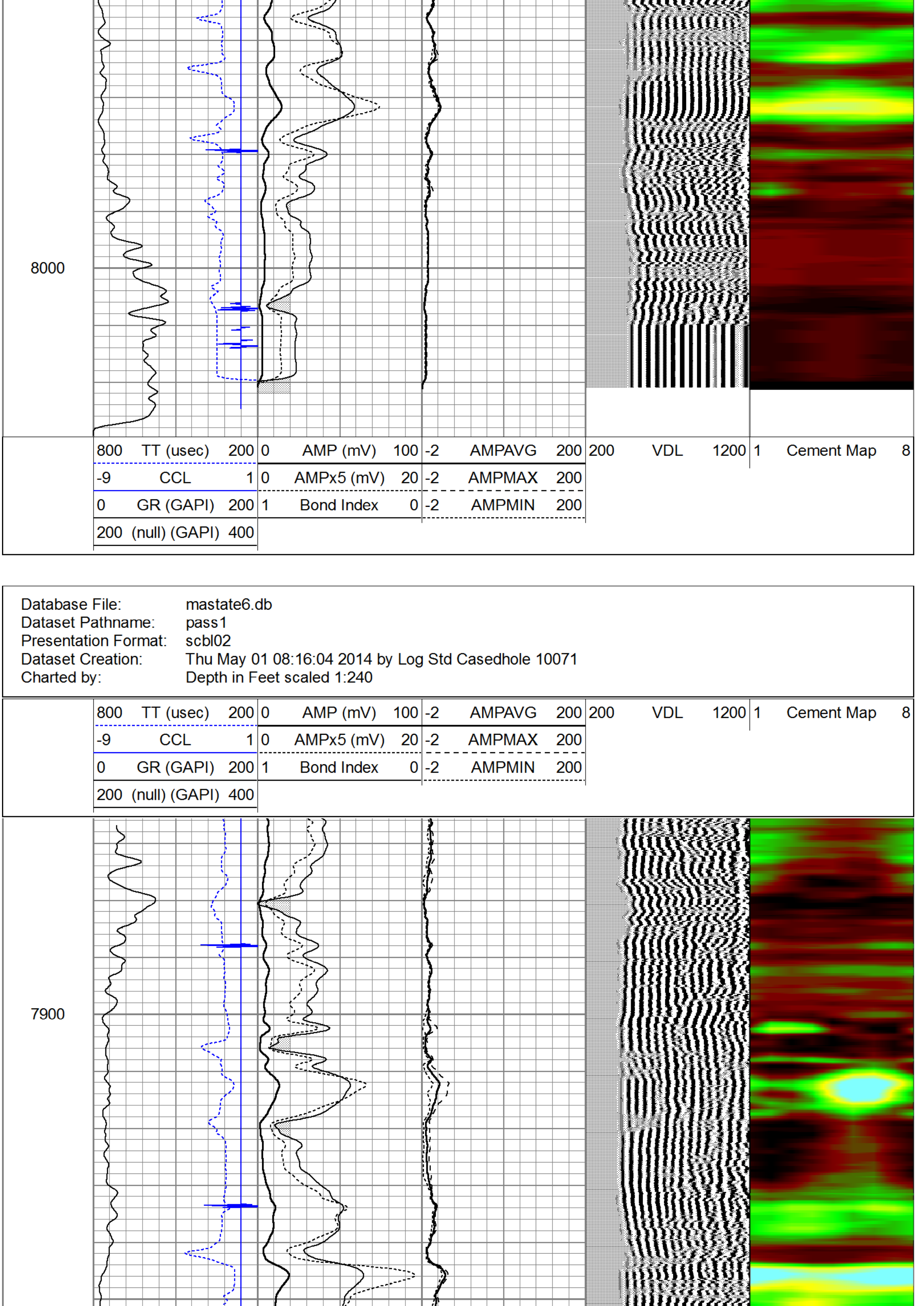
MAIN PASS

Database File:	mastate6.db
Dataset Pathname:	pass2.1
Presentation Format:	scbl02
Dataset Creation:	Thu May 01 09:28:38 2014
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)	200	1	Bond Index	0	-2	AMPMIN	200						
200	(null) (GAPI)	400												

Database File: mastate6.db
Dataset Pathname: pass1
Presentation Format: scbl02
Dataset Creation: Thu May 01 08:16:04 2014 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: mastate6.db
Dataset Pathname: pass1
Dataset Creation: Thu May 01 08:16:04 2014 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Thu Apr 10 09:57:30 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	4.5040904	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	105.000	ft

Master Calibration, performed Thu Apr 24 17:53:05 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.016	1.284	0.250	71.921	56.495	-0.644
CAL	1.684	1.488				
5'	0.014	1.220	0.250	71.921	59.462	-0.609
SUM						
S1	0.013	1.293	0.250	100.000	77.894	-0.724
S2	0.014	1.290	0.250	100.000	78.210	-0.853
S3	0.015	1.272	0.250	100.000	79.331	-0.935
S4	0.015	1.266	0.250	100.000	79.734	-0.946
S5	0.015	1.260	0.250	100.000	80.119	-0.924
S6	0.015	1.265	0.250	100.000	79.801	-0.950
S7	0.015	1.264	0.250	100.000	79.851	-0.948
S8	0.015	1.276	0.250	100.000	79.120	-0.941

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	1.684	1.488	1.000	0.000

Air Zero Calibration, performed Thu May 01 07:59:47 2014:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.015	0.000	0.001
5'	0.014	0.000	0.001
SUM			
S1	0.012	0.000	0.000
S2	0.014	0.000	0.000
S3	0.016	0.000	-0.001
S4	0.016	0.000	-0.001
S5	0.015	0.000	-0.001
S6	0.017	0.000	-0.002
S7	0.016	0.000	-0.001
S8	0.015	0.000	-0.000