PEAK WIRELINE SERVICES, INC.

RADIAL CEMENT BOND LOG

Company WIEPKING-FULLERTON
Well MA-STATE #16
Field GREATY PLAINS
County LINCOLN
State COLORADO

Company	WIEPKING-FULLERTON ENERGY, LLC.
Well	MA-STATE #16
Field	GREAT PLAINS
County	LINCOLN
State	COLORADO

Location
660' FNL & 2080' FWL
NE NW
SEC 24 TWP 10S RGE 56W

Other Services

Permanent Datum GROUND LEVEL Elevation 5278
Log Measured From KELLY BUSHING 13' AGL
Drilling Measured From KELLY BUSHING

Elevation
K.B. 5291
D.F. 5290
G.L. 5278

Date	10-1-2014		
Run Number	TWO		
Depth Driller	8013		
Depth Logger	7953		
Bottom Logged Interval	7949		
Top Log Interval	2840		
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	318				
TWO	7 7/8"	318	8013				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24#	0	318
Prot. String				
Production String	5 1/2"	17#	0	7996
Liner				

<<< Fold Here >>>

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.

MAIN PASS

Database File: ma16.db
Dataset Pathname: pass2
Presentation Format: scbl02
Dataset Creation: Wed Oct 01 13:14:31 2014 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

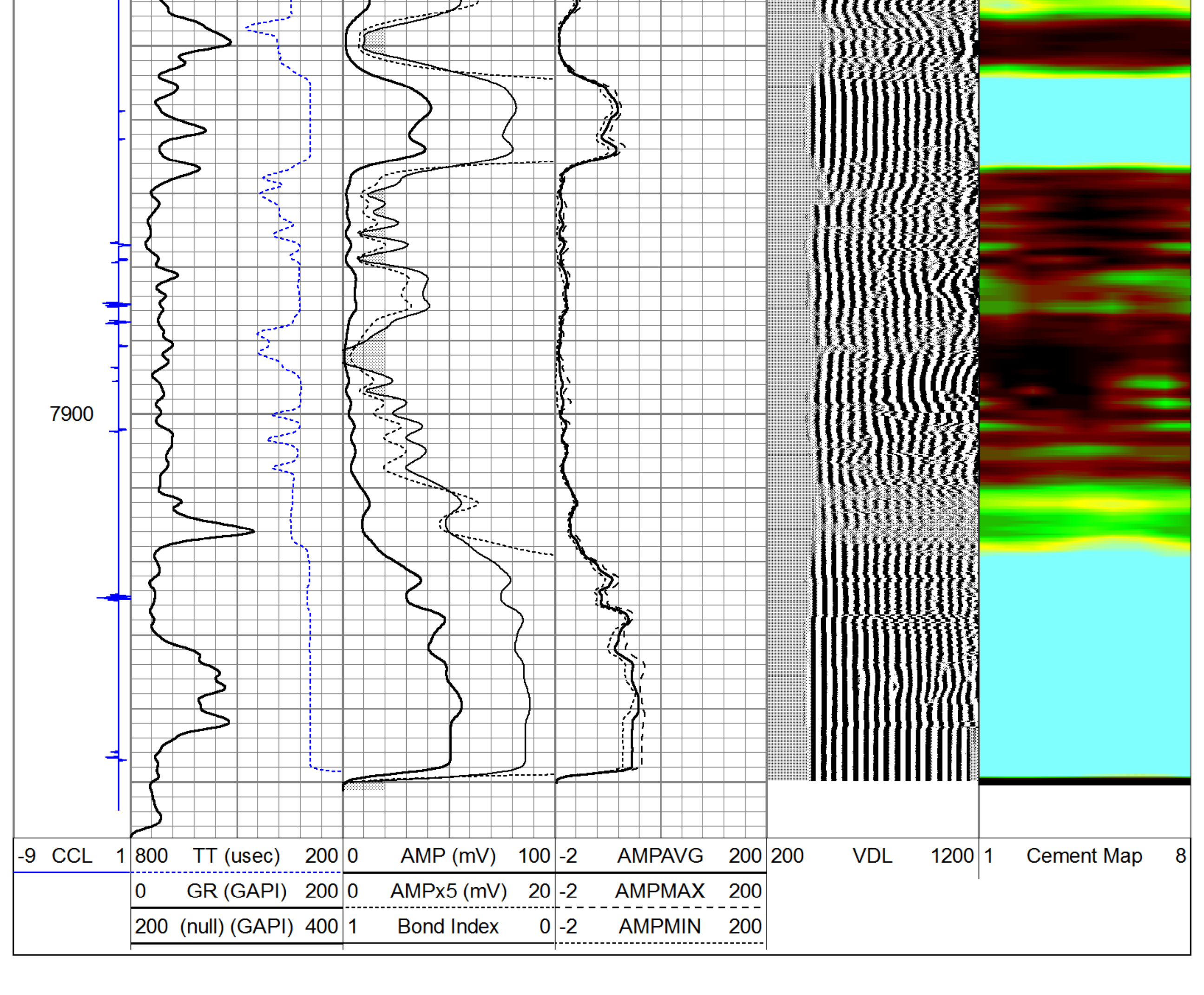
-9 CCL 1	800 TT (usec) 200	0 AMP (mV) 100	-2 AMPAVG 200	200 VDL 1200	1 Cement Map 8
	0 GR (GAPI) 200	0 AMPx5 (mV) 20	-2 AMPMAX 200		
	200 (null) (GAPI) 400	1 Bond Index 0	-2 AMPMIN 200		

PEAK WIRELINE SERVICES, INC.

REPEAT SECTION

Database File: ma16.db
Dataset Pathname: pass1
Presentation Format: scbl02
Dataset Creation: Wed Oct 01 13:09:31 2014 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

-9 CCL 1	800 TT (usec) 200	0 AMP (mV) 100	-2 AMPAVG 200	200 VDL 1200	1 Cement Map 8
	0 GR (GAPI) 200	0 AMPx5 (mV) 20	-2 AMPMAX 200		
	200 (null) (GAPI) 400	1 Bond Index 0	-2 AMPMIN 200		



-9 CCL 1	800 TT (usec) 200	0 AMP (mV) 100	-2 AMPAVG 200	200 VDL 1200	1 Cement Map 8
	0 GR (GAPI) 200	0 AMPx5 (mV) 20	-2 AMPMAX 200		
	200 (null) (GAPI) 400	1 Bond Index 0	-2 AMPMIN 200		

Calibration Report

Database File: ma16.db
Dataset Pathname: pass2
Dataset Creation: Wed Oct 01 13:14:31 2014 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number:	061120GR	
Tool Model:	PROBE	
Performed:	Tue Jul 08 12:29:35 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	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:	75.258	ft

Master Calibration, performed Wed Oct 01 12:46:49 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.014	1.913	0.250	71.921	37.758	-0.297
CAL	2.184	2.152				
5'	0.015	1.841	0.250	71.921	39.260	-0.342
SUM						
S1	0.013	1.888	0.250	100.000	53.193	-0.435
S2	0.014	1.870	0.250	100.000	53.747	-0.523
S3	0.015	1.891	0.250	100.000	53.183	-0.574
S4	0.016	1.906	0.250	100.000	52.762	-0.573
S5	0.015	1.918	0.250	100.000	52.418	-0.543
S6	0.015	1.923	0.250	100.000	52.304	-0.554
S7	0.016	1.903	0.250	100.000	52.858	-0.571
S8	0.016	1.887	0.250	100.000	53.302	-0.602

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	2.184	2.152	1.000	0.000

Air Zero Calibration, performed Wed Oct 01 12:46:27 2014:

	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