HALLIBURTON

CEMENT BOND LOG

5"=100'

Company MINERAL RESOURCES
Well JOZ A 5-7-32
Field WATTENBERG
County WELD State CO

Company	MINERAL RESOURCES
Well	JOZ A 5-7-32
Field	WATTENBERG
County	WELD
State	CO

API No.: 05-123-31746 Serv #: 7715372
Location: 666' FSL & 1847' FEL
SWSE

Other Services
NONE

Sec:32 Twp:6N Rge:65W

Permanent Datum	GROUND LEVEL	Elevation	4641
Log Measured From	KB , 15 Ft. above perm. datum		
Drilling Measured From	KB		

Elevation
K.B. 4656
D.F. 4655
G.L. 4641

Date @ Time Logged	22-OCT-2010	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.33
Depth - Driller	7208	Fluid Level	SURFACE
Depth - Logger	7145	Cement Top Est. Logged	616
Bottom - Logged Interval	7130	Equipment / Location	10971660 / BRIGHTON
Top - Log Interval	350	Recorded by	M. BRECKENFELD
Max. Recorded Temp.	247 F	Witnessed by	TOM COBB

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented				
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume				
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	7.875	SURFACE	TD	4.5	11.6	SURFACE	TD

<<< Fold Here >>>

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHCIH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

LOG CORRELATED TO PSI COMPENSATED NEUTRON LOG DATED 16-SEP-2010

SHORT JOINT LOCATED AT: 6666-6679

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

YOUR CREW TODAY: J. NORRIS, B. LAWLEY, T. DICAMILLO

HALLIBURTON

SUSSEX PASS

SCALE: 5"=100'

Database File:	mineral_resources_joz_a5-7-32.db
Dataset Pathname:	pass5
Presentation Format:	matt_cbl
Dataset Creation:	Fri Oct 22 09:26:04 2010 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

9 Collar Locator -1	TEMP	0 Amplified Amplitude (mV) 10	200 Variable Density 1200
0 Gamma Ray (GAPI) 200	(degF)	0 Amplitude (mV) 100	■ ▓ ▒ ░
	0 300		

HALLIBURTON

SUSSEX PASS

SCALE: 5"=100'

HALLIBURTON

MAIN PASS

SCALE: 5"=100'

Database File: mineral_resources_joz_a5-7-32.db
Dataset Pathname: pass4
Presentation Format: matt_cbl
Dataset Creation: Fri Oct 22 09:06:06 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1	TEMP	0 Amplified Amplitude (mV) 10	200 Variable Density 1200
0 Gamma Ray (GAPI) 200	(degF)	0 Amplitude (mV) 100	■ ▓ ▒ ░
	0 300		

9 Collar Locator -1	TEMP	0 Amplified Amplitude (mV) 10	200 Variable Density 1200
0 Gamma Ray (GAPI) 200	(degF)	0 Amplitude (mV) 100	■ ▓ ▒ ░
	0 300		

HALLIBURTON

MAIN PASS

SCALE: 5"=100'

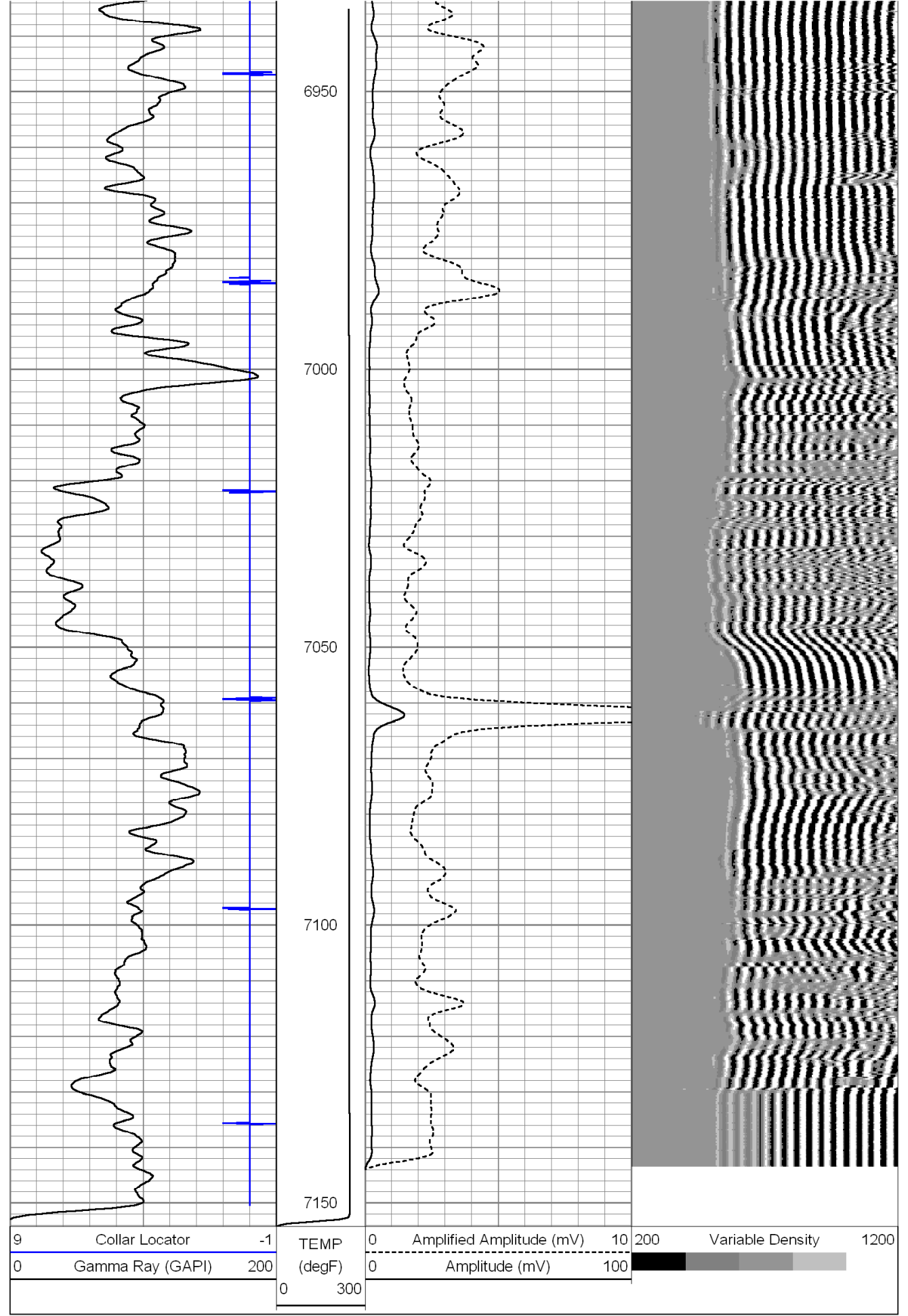
HALLIBURTON

REPEAT PASS

SCALE:5"=100'

Database File: mineral_resources_joz_a5-7-32.db
Dataset Pathname: pass3
Presentation Format: matt_cbl
Dataset Creation: Fri Oct 22 08:59:25 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1	TEMP	0 Amplified Amplitude (mV) 10	200 Variable Density 1200
0 Gamma Ray (GAPI) 200	(degF)	0 Amplitude (mV) 100	■ ▓ ▒ ░
	0 300		



9 Collar Locator -1	TEMP	0 Amplified Amplitude (mV) 10	200 Variable Density 1200
0 Gamma Ray (GAPI) 200	(degF)	0 Amplitude (mV) 100	■ ▓ ▒ ░
	0 300		

HALLIBURTON

REPEAT PASS

SCALE:5"=100'

Company MINERAL RESOURCES
Well JOZ A5-7-32
Field WATTENBERG
County WELD State CO

HALLIBURTON

CEMENT BOND
LOG
5"=100'