HALLIBURTON

CEMENT BOND LOG

SCALE: 5"=100'

Company	HRM RESOURCES LLC		
Well	STROH 12-22		
Field	WATTENBERG		
County	WELD	State	COLORADO

Company HRM RESOURCES LLC
Well STROH 12-22
Field WATTENBERG
County WELD
State COLORADO
API No.: 05-123-27109-00 Serv #
Location: 1919' FNL & 716' FWL SW NW
Other Services
Sec: 22 Twp: 4N Rge: 67W

Permanent Datum	GL	Elevation	4882
Log Measured From	KB 12 Ft. above perm. datum	Elevation	K.B. 4894 D.F. 4893 G.L. 4882
Drilling Measured From	KB		
Date @ Time Logged	NOVEMBER 4, 2010	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.33
Depth - Driller	7478	Fluid Level	SURFACE
Depth - Logger	7402	Cement Top Est. Logged	2670
Bottom - Logged Interval	7390	Equipment / Location	10971660 / BRIGHTON
Top - Log Interval	2440	Recorded by	J. HEATH
Max. Recorded Temp.	243	Witnessed by	

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	7478	4.5	11.6	SURFACE	7478

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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 OPEN HOLE LOG DATED OCTOBER 1, 2010
CREW TODAY: R. CRAWFORD C. STROKER
THANK YOU FOR CHOOSING HALLIBURRTON

HALLIBURTON

MAIN PASS

SCALE: 5"=100'

Database File:	c:\warrior\data\hrm_stroh 12-22 cbl\hrm_stroh 12-22_cbl.db
Dataset Pathname:	MAIN
Presentation Format:	matt_cbl
Dataset Creation:	Fri Nov 05 09:27:24 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) 0 300	0 Amplitude (mV) 100	

HALLIBURTON

MAIN PASS

SCALE: 5"=100'

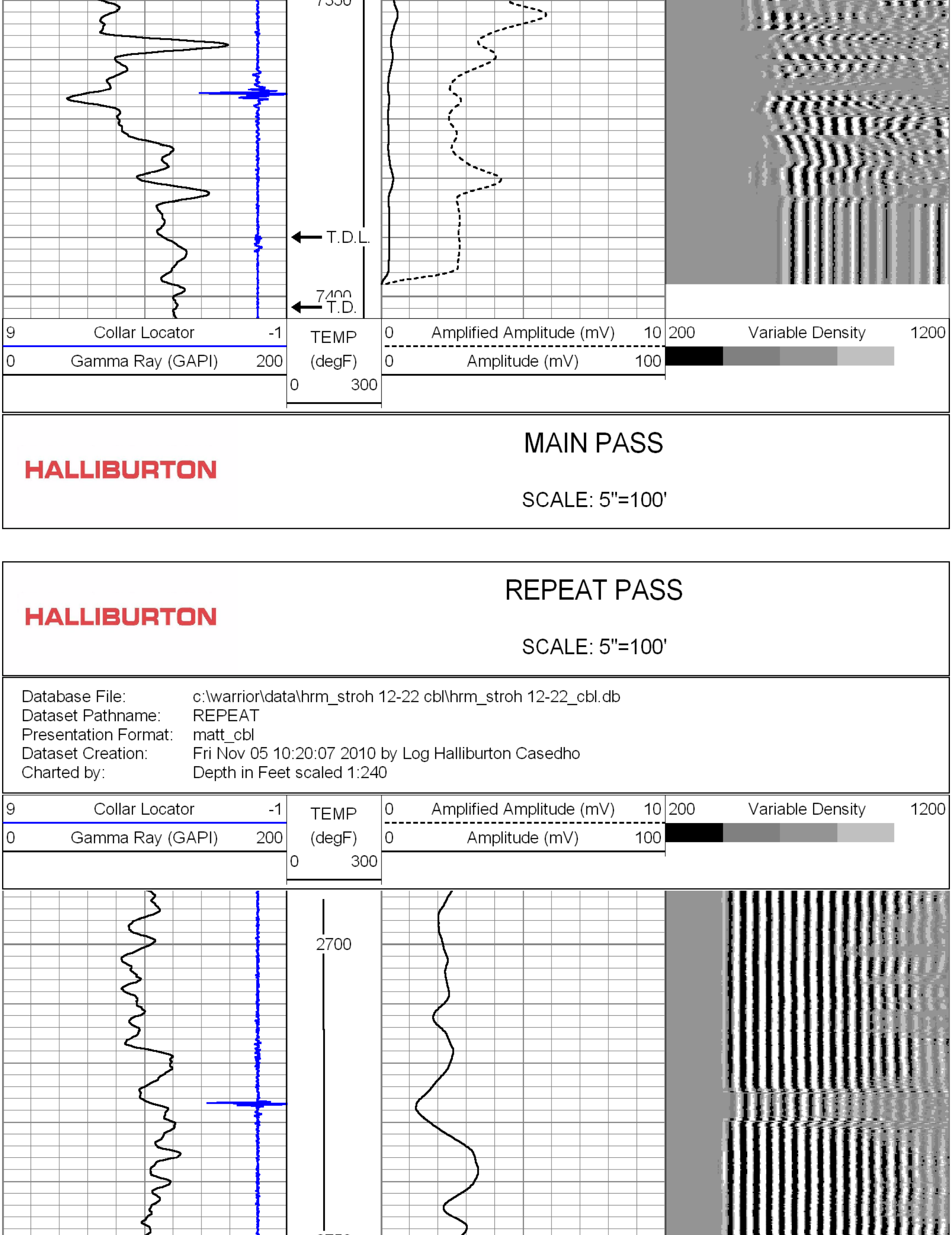
HALLIBURTON

REPEAT PASS

SCALE: 5"=100'

Database File:	c:\warrior\data\hrm_stroh 12-22 cbl\hrm_stroh 12-22_cbl.db
Dataset Pathname:	REPEAT
Presentation Format:	matt_cbl
Dataset Creation:	Fri Nov 05 10:20:07 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) 0 300	0 Amplitude (mV) 100	



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

HALLIBURTON

REPEAT PASS

SCALE: 5"=100'

Company	HRM RESOURCES LLC
Well	STROH 12-22
Field	WATTENBERG
County	WELD
State	COLORADO

HALLIBURTON

CEMENT
BOND LOG
SCALE: 5"=100'