RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL

Company	WILLIAMS PRODUCTION CO.		
Well	GM 311-6		
Field	GRAND VALLEY		
County	GARFIELD	State	COLORADO
Location:	API # : 05045163500000		Other Services
	SHL: 1317' FNL & 1240' FWL BHL: 519' FNL & 499' FWL		PERF.
	SEC 06 TWP 07S RGE 96W		
Permanent Datum	G.L.	Elevation 6398'	Elevation
Log Measured From	K.B.	Ft Above PD 24'	K.B. 6424'
Drilling Measured From	K.B.		D.F. 6424' G.L. 6398'

Date	02-25-2009	
Run Number	ONE	
Depth Driller	7250'	
Present Depth Driller	7250'	
Depth Logger	6716'	
Bottom Logged Interval	6716'	
Top Log Interval	6000'	
Fluid Level	300'	
Type Fluid	WATER	
Max. Recorded Temp.	N/A	
Estimated Cement Top	SEE LOG	
Equipment Number	218	
Location	GRAND JCT	
Recorded By	H SPENCER	
Witnessed By	MR. SKALLA	

	Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	13.5"	SURFACE	768'	9.625"	32.3#	SURFACE	768'
TWO	7.875"	768'	7250'	4.5"	11.6#	SURFACE	7233'

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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.

WARRIOR 7.0 SOFTWARE - Comments

THIS LOG WAS DEPTH CORRELATED WITH THE HLS CBL DATED ON 16-JAN-2009

Calibration Report

Database File: 022509_gm_311_6.db
Dataset Pathname: cbl/pass12
Dataset Creation: Wed Feb 25 13:54:01 2009 by Log Std Casedhole 07122

Gamma Ray Calibration Report

Serial Number:	TEKCO234_352	
Tool Model:	TEKCO234	
Performed:	Tue Jul 29 08:24:09 2008	
Calibrator Value:	1.0	
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.3000	/cps

CBL Calibration Report

Serial Number:	TEKCO_8043		
Tool Model:	TEKCO		
Performed:	Fri Feb 20 11:43:53 2009		
Depth:	2296.433	ft	
Casing Diameter:	4.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.000	1.000	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	-0.000	0.000	V
Reading in Free Pipe:	1.074	2.045	V
Gain:	74.665	39.227	
Offset:	1.002	0.984	

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MAIN PASS 5" = 100'

Database File: 022509_gm_311_6.db
Dataset Pathname: cbl/pass12
Presentation Format: scbl_169
Dataset Creation: Wed Feb 25 13:54:01 2009 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

-27 CCL 3	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR 200	0 (lb)2000	0 AMP (mV) 100	
		380 TT (usec) 180	

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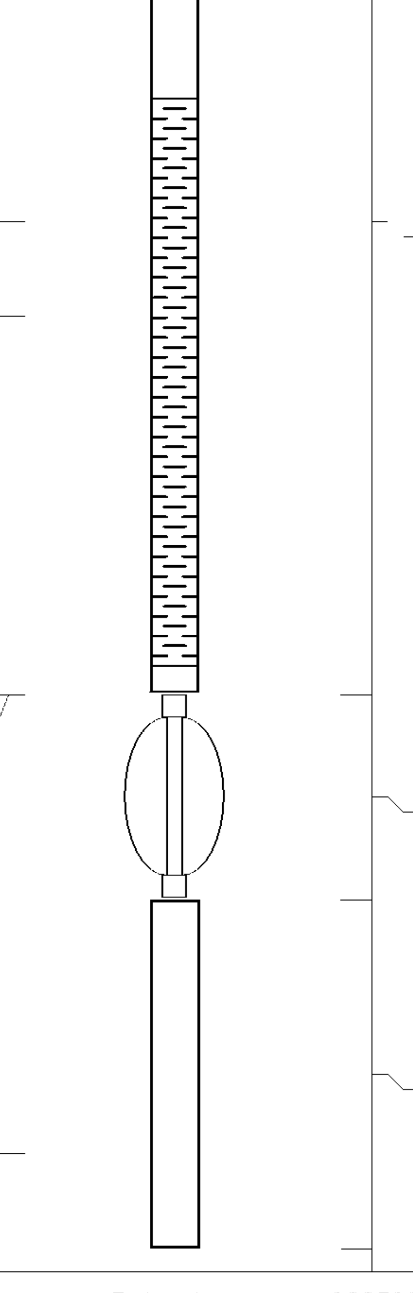
MAIN PASS 5" = 100'

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	18.75		CCL-TITAN275 (TITAN275_102) Titan 2 3/4" CCL	1.92	2.75	10.00
			TITAN169 tool test	2.17	1.69	5.00
WVF3FT	10.85		CBLTEKCO-TEKCO (TEKCO_8043) DEMO TOOL - DEMINSIONS INVALID	10.00	3.25	50.00
WVF5FT	9.85					
WVFCAL WVFSYNC	5.85 5.85					
			TITAN169 tool test	2.17	1.69	5.00
			GR-TEKCO234 (TEKCO234_352) Tekco 2 3/4" Gamma Ray	3.69	2.75	20.00
GR	1.00					

Dataset: 022509_gm_311_6.db: field/well/cbl/pass12
Total Length: 19.94 ft
Total Weight: 90.00 lb
O.D. 3.25 in