RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMARAY / CCL

Company	WILLIAMS PRODUCTION RMT		
Well	GM 34- 32		
Field	GRAND VALLEY		
County	GARFIELD	State	COLORADO

Location: API # : 05-045-17892
SHL: 2621' FNL & 1132' FEL
BHL: 0987' FSL & 1913' FEL
SEC 32 TWP 6S RGE 96W

Other Services

Permanent Datum	G.L.	Elevation	5946'
Log Measured From	K.B.	Ft Above PD	24'
Drilling Measured From	K.B.		

Elevation
K.B. 5972'
D.F. 5971'
G.L. 5948'

Date	12-07-2010
Run Number	ONE
Depth Driller	7196'
Present Depth Driller	6468'
Depth Logger	6468'
Bottom Logged Interval	6467'
Top Log Interval	5000'
Fluid Level	250'
Type Fluid	WATER
Max. Recorded Temp.	N/A
Estimated Cement Top	SEE LOG
Equipment Number	205
Location	GRAND JCT.
Recorded By	HARRIS
Witnessed By	MR. SNOW

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	13.5"	SURFACE	1039'	9.625"	36#	SURFACE	1039'
TWO	7.875"	SURFACE	7196'	4.5"	11.6#	SURFACE	7196'

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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

NOTE: THIS LOG WAS DEPTH CORRELATED TO THE BAKER HUGHES CBL DATED 09-09-10
MAIN PASS = 5" 100'

Calibration Report

Database File: 120710_williams_gm_34_32.db
Dataset Pathname: MAIN/PASS3
Dataset Creation: Tue Dec 07 13:04:22 2010

Gamma Ray Calibration Report

Serial Number:	TEKO234_359	
Tool Model:	TEKCO234	
Performed:	Thu Dec 17 10:09:12 2009	
Calibrator Value:	1.0	
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.1000	/cps

CBL Calibration Report

Serial Number:	TEKCO_8044		
Tool Model:	TEKCO		
Performed:	Tue Dec 07 13:02:40 2010		
Depth:	298.292	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	-0.028	V
Reading in Free Pipe:	1.976	2.302	V
Gain:	40.581	34.424	
Offset:	0.999	1.965	

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MAIN PASS

Database File: 120710_williams_gm_34_32.db
Dataset Pathname: MAIN/PASS3
Presentation Format: rmws_dsc
Dataset Creation: Tue Dec 07 13:04:22 2010
Charted by: Depth in Feet scaled 1:240

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MAIN PASS

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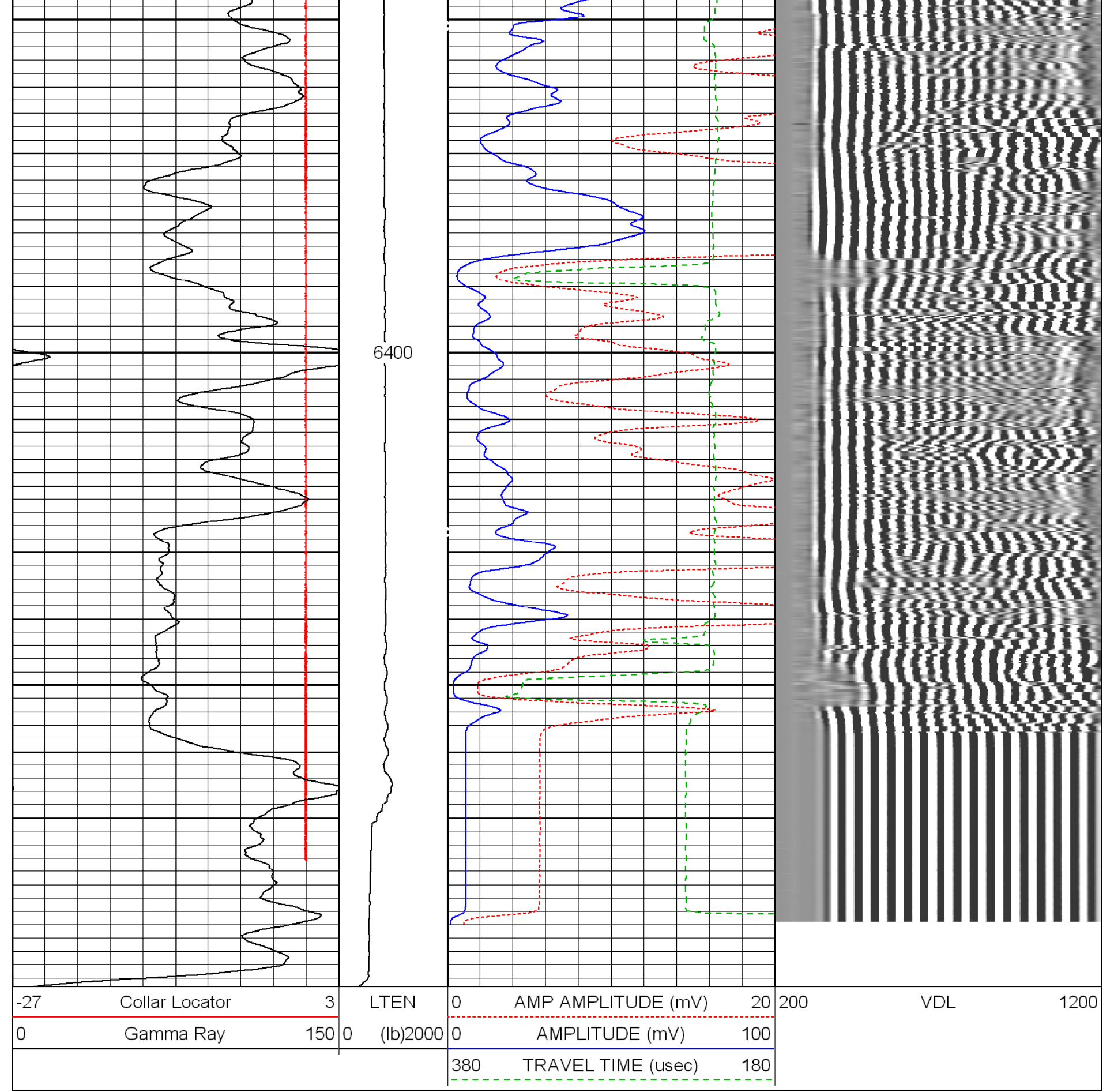
REPEAT PASS

Database File: 120710_williams_gm_34_32.db
Dataset Pathname: pass2
Presentation Format: rmws_dsc
Dataset Creation: Tue Dec 07 12:03:02 2010 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240



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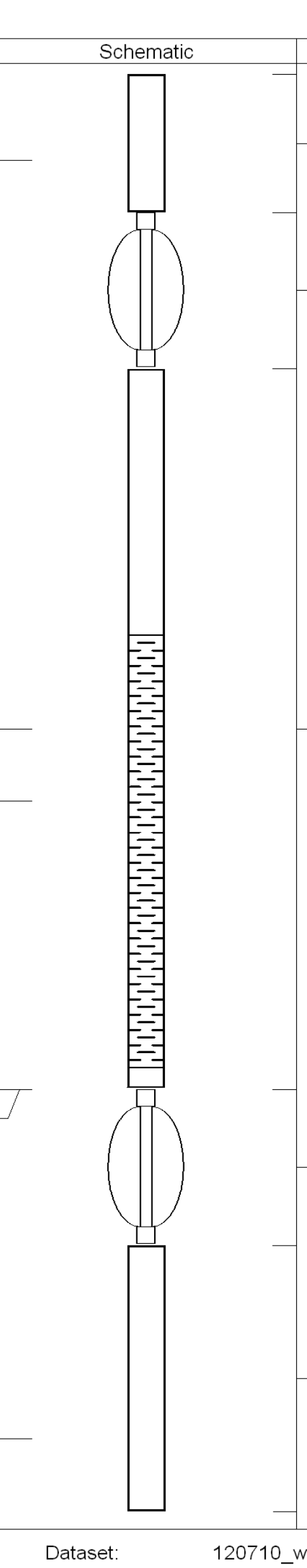
REPEAT PASS



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 Titan 1 11/16" Centralizer	2.17	1.69	5.00
WVF3FT	10.85		CBLTEKCO-TEKCO (TEKCO_8044) DEMO TOOL - DEMINSIONS INVALID	10.00	3.25	50.00
WVF5FT	9.85					
WVFCAL	5.85					
WVFSYNC	5.85		TITAN169 Titan 1 11/16" Centralizer	2.17	1.69	5.00
			GR-TEKCO234 (TEKO234_359) Tekco 2 3/4" Gamma Ray	3.69	2.75	20.00
GR	1.00					

Dataset: 120710_williams_gm_34_32.db: field/well/MAIN/PASS3
Total Length: 19.94 ft
Total Weight: 90.00 lb
O.D. 3.25 in

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