ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY/CCL

Company	WILLIAMS PRODUCTION RMT COMPANY		
Well	RWF 423 - 28		
Field	RULISON		
County	GARFIELD	State	
Location:	API # : 05045171910000 SURFACE: 427' FSL 663' FWL BOTTOM HOLE: 1332' FSL 1985' FWL SEC 28 TWP 6S RGE 94W	Other Services	
Permanent Datum	G.L.	Elevation	5535'
Log Measured From	K.B.	Ft Above PD	17'
Drilling Measured From	K.B.	Elevation	K.B. 5552' D.F. 5551' G.L. 5535'

Date	11 - 30 - 2009	
Run Number	ONE	
Depth Driller	8175'	
Present Depth Driller	8175'	
Depth Logger	6000'	
Bottom Logged Interval	5999'	
Top Log Interval	5000'	
Fluid Level	700'	
Type Fluid	WATER	
Max. Recorded Temp.	185 Deg F	
Estimated Cement Top		
Equipment Number	208	
Location	GRAND JCT.	
Recorded By	RAFF	INGRAM
Witnessed By	MR. CADY	

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.75	SURFACE	8175'	4.5	11.6 #	SURFACE	8175'

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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

CORRELATED TO BAKER HUGHES RBL 5-21-2009.
NOTE: 5"=100'

Calibration Report

Database File: 113009_williams_rwf-423-28.db
Dataset Pathname: pass8.1
Dataset Creation: Tue Dec 01 16:45:18 2009

Gamma Ray Calibration Report

Serial Number:	TEKCO234_315	
Tool Model:	TEKCO234	
Performed:	Thu Apr 24 14:57:35 2008	
Calibrator Value:	1.0	
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9000	/cps

CBL Calibration Report

Serial Number:	TEKCO_8044		
Tool Model:	TEKCO		
Performed:	Tue Dec 01 16:14:20 2009		
Depth:	1745.471	ft	
Casing Diameter:	4.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.000	0.000	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	-0.150	0.000	V
Reading in Free Pipe:	0.659	1.282	V
Gain:	100.359	63.335	
Offset:	2.091	-0.014	

ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS

Database File: 113009_williams_rwf-423-28.db
Dataset Pathname: pass8.1
Presentation Format: rmws_dsc
Dataset Creation: Tue Dec 01 16:45:18 2009
Charted by: Depth in Feet scaled 1:240

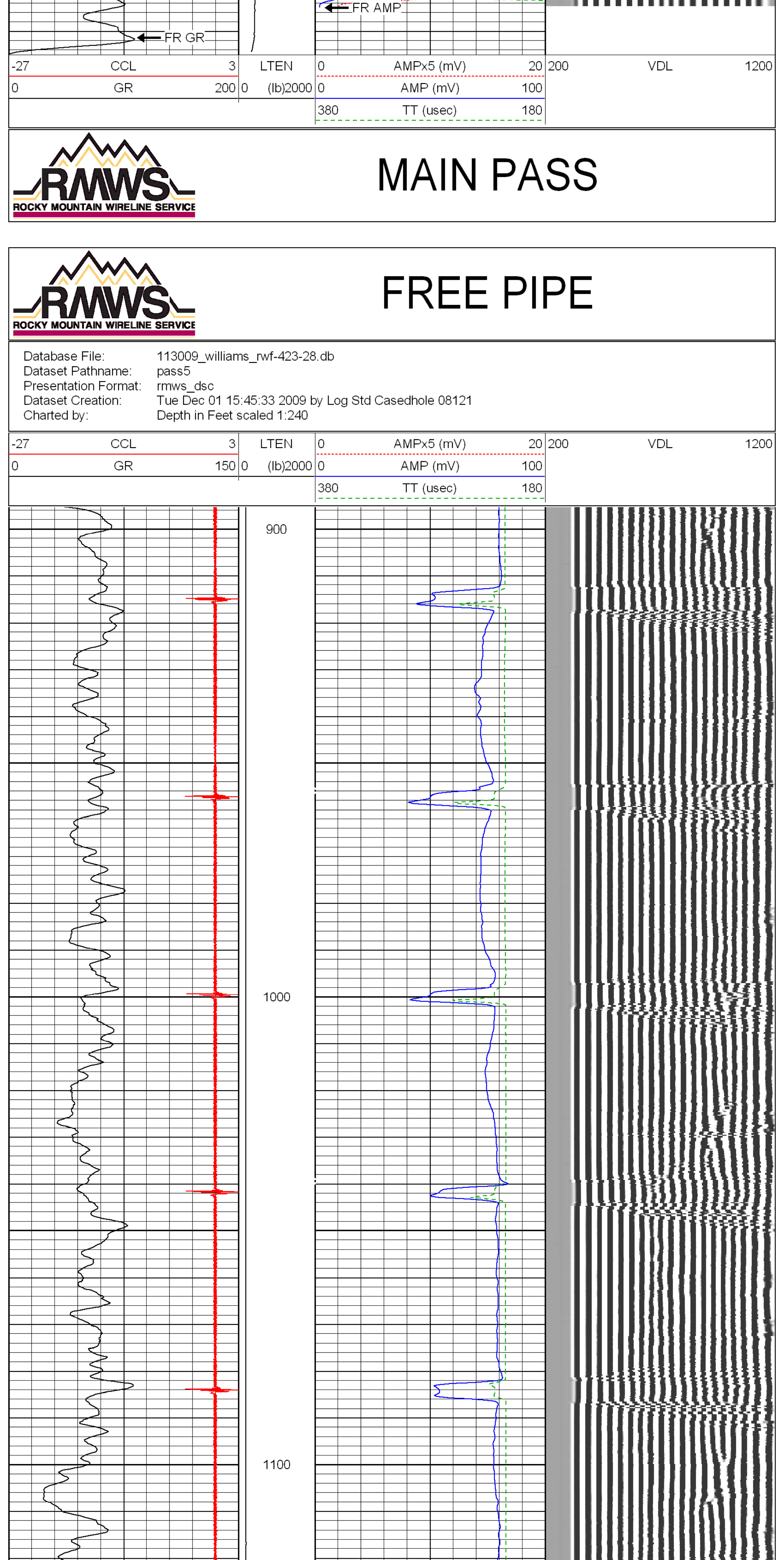
ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS

ROCKY MOUNTAIN WIRELINE SERVICE

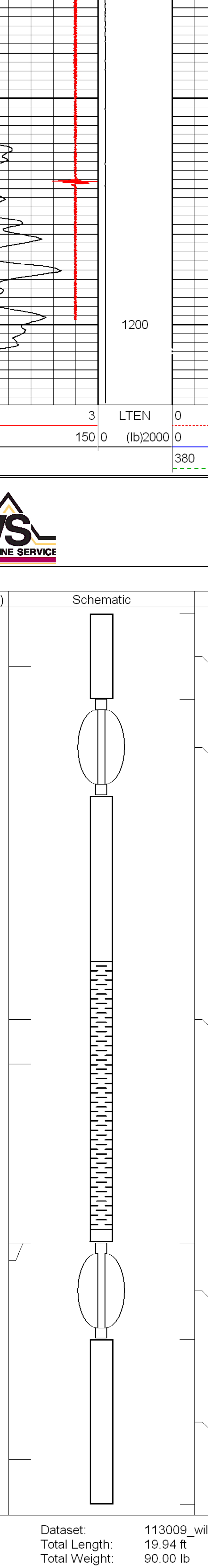
FREE PIPE

Database File: 113009_williams_rwf-423-28.db
Dataset Pathname: pass5
Presentation Format: rmws_dsc
Dataset Creation: Tue Dec 01 15:45:33 2009 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



ROCKY MOUNTAIN WIRELINE SERVICE

FREE PIPE

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 WVFSYNC	5.85 5.85					
			TITAN169 Titan 1 11/16" Centralizer	2.17	1.69	5.00
			GR-TEKCO234 (TEKCO234_315) Tekco 2 3/4" Gamma Ray	3.69	2.75	20.00
GR	1.00					

Dataset: 113009_williams_rwf-423-28.db: field/well/run1/pass8.1
Total Length: 19.94 ft
Total Weight: 90.00 lb
O.D. 3.25 in