ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL

Company	WPX ENERGY
Well	FEDERAL GM 702-4-HN1
Field	GRAND VALLEY
County	GARFIELD
State	COLORADO

Location: API # : 05-045-22051000
SHL: 1401' FNL & 2354' FEL (SECTION 4)
BHL: 1974' FNL & 1702' FEL (SECTION 9)
SEC 9 TWP 7S RGE 96W

Other Services

Permanent Datum	G.L.	Elevation 5532'	Elevation K.B. 5557' D.F. G.L. 5532'
Log Measured From	K.B.	Ft Above PD 25'	
Drilling Measured From	K.B.		

Date	06 - 25 - 2014	
Run Number	ONE	
Depth Driller	10682'	
Present Depth Driller	N/A	
Depth Logger	2320'	
Bottom Logged Interval	2319'	
Top Log Interval	166'	
Fluid Level	188'	
Type Fluid	WATER	
Max. Recorded Temp.	N/A	
Estimated Cement Top	SEE LOG	
Equipment Number	219	
Location	GRAND JCT.	
Recorded By	FERNANDEZ	INGRAM
Witnessed By	MR. KOHL	

Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	24.000"	SURFACE	120'	7.625"	29.7#	SURFACE	10682'
TWO	17.500"	SURFACE	2436'	5.500"	23.0#	7618'	7618'
THREE	9.875"	SURFACE	10358"	4.500"	15.1#		T.D.
FOUR							

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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 RMWS CEMENT BOND LOG
DATED: 11-18-2013

MAIN PASS: 5" = 100'

CSG PSI: STATIC

Calibration Report

Database File: 06252014_wpx_gm_702-4-hm1.db
Dataset Pathname: main/pass1
Dataset Creation: Wed Jun 25 08:32:19 2014 by Log SCH 120430

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_8009		
Tool Model:	TEKCO		
Performed:	Wed Jun 25 08:09:32 2014		
Depth:	335.988	ft	
Casing Diameter:	5.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.000	1.000	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	-0.000	-0.010	V
Reading in Free Pipe:	0.539	0.803	V
Gain:	131.453	87.293	
Offset:	1.013	1.840	

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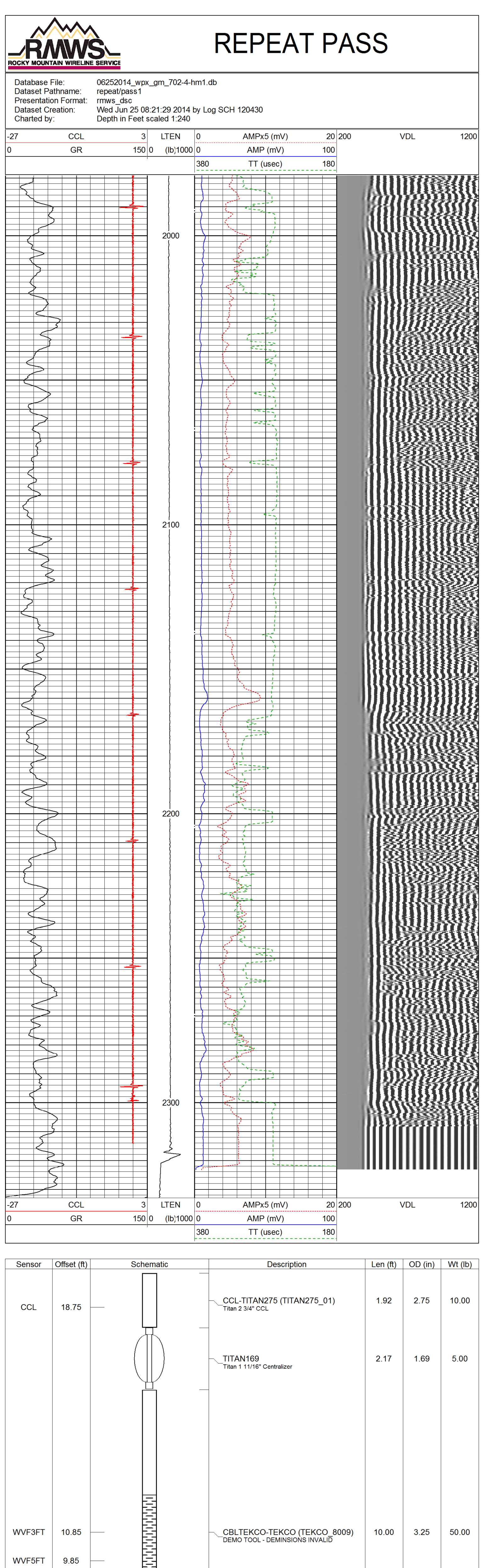
MAIN PASS

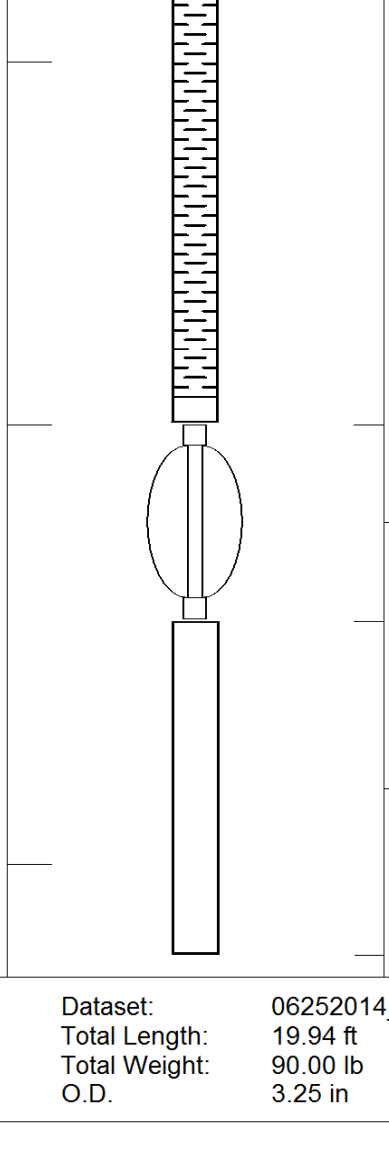
Database File: 06252014_wpx_gm_702-4-hm1.db
Dataset Pathname: main/pass1
Presentation Format: rmws_dsc
Dataset Creation: Wed Jun 25 08:32:19 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

ROCKY MOUNTAIN WIRELINE SERVICE

REPEAT PASS

Database File: 06252014_wpx_gm_702-4-hm1.db
Dataset Pathname: repeat/pass1
Presentation Format: rmws_dsc
Dataset Creation: Wed Jun 25 08:21:29 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	18.75		CCL-TITAN275 (TITAN275_01) 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_8009) DEMO TOOL - DEMINSIONS INVALID	10.00	3.25	50.00
WVF5FT	9.85					
WVFSYNC	5.85		TITAN169 Titan 1 11/16" Centralizer	2.17	1.69	5.00
GR	1.00		GR-TEKCO234 (TEKCO234_352) Tekco 2 3/4" Gamma Ray	3.69	2.75	20.00

Dataset: 06252014_wpx_gm_702-4-hm1.db: field/well/main/pass1
Total Length: 19.94 ft
Total Weight: 90.00 lb
O.D. 3.25 in

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