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 # : 05-045-220510000

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'
Log Measured From	K.B.	Ft Above PD	25'
Drilling Measured From	K.B.		

Elevation
K.B. 5557'
D.F.
G.L. 5532'

Date	06 - 20 - 2014		
Run Number	ONE		
Depth Driller	10682'		
Present Depth Driller	N/A		
Depth Logger	4811'		
Bottom Logged Interval	4810'		
Top Log Interval	2800'		
Fluid Level	370'		
Type Fluid	WATER		
Max. Recorded Temp.	N/A		
Estimated Cement Top	SEE LOG		
Equipment Number	219		
Location	GRAND JCT.		
Recorded By	FERNANDEZ		
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#	SURFACE	7618'
THREE	9.875"	SURFACE	10358"	4.500"	15.1#	7618'	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 BAKER HUGHES CEMENT BOND LOG
DATED: 8-10-2013

MAIN PASS: 5" = 100'

CSG PSI: STATIC

Calibration Report

Database File:	06202014_wpx_gm702_4_hn1.db
Dataset Pathname:	main/pass1.2
Dataset Creation:	Fri Jun 20 11:18:43 2014 by Calc 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

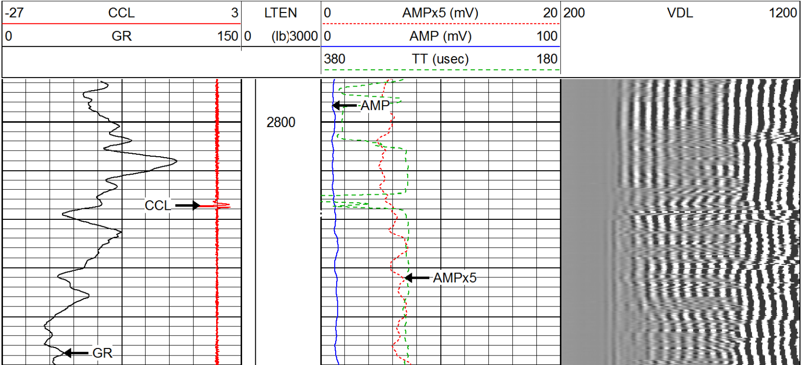
CBL Calibration Report

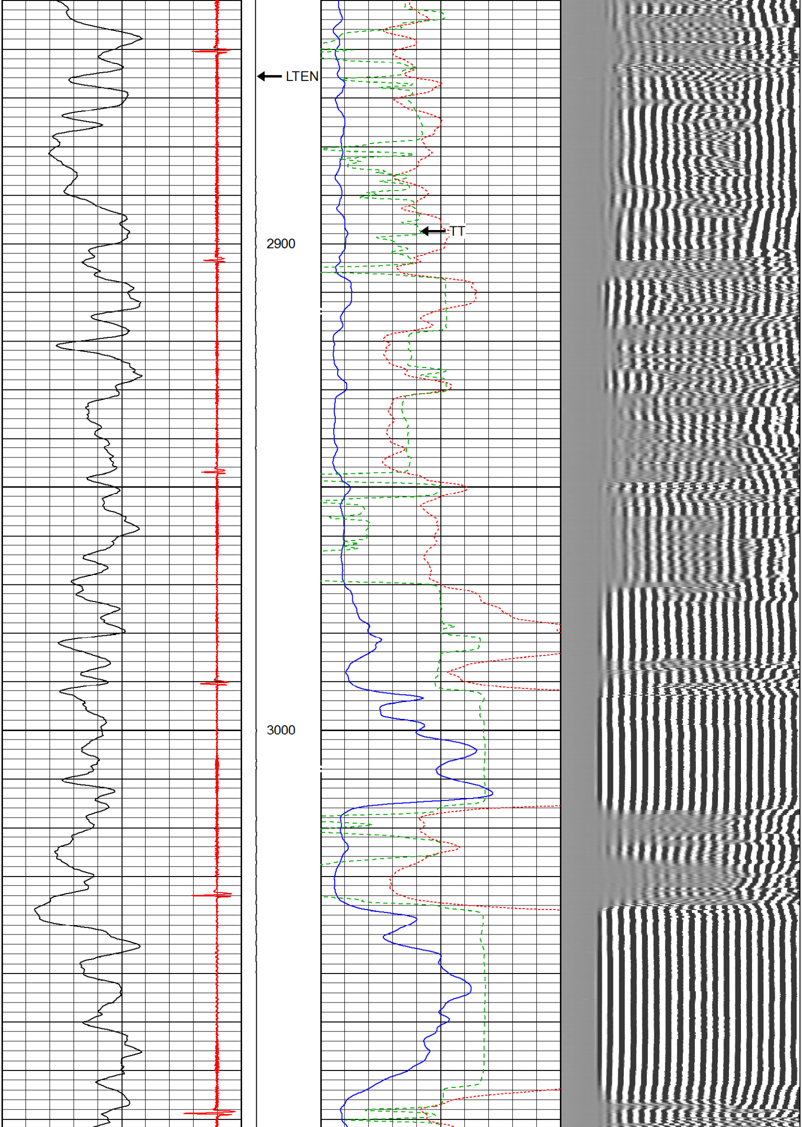
Serial Number:	TEKCO_8009		
Tool Model:	TEKCO		
Performed:	Fri Jun 20 11:17:55 2014		
Depth:	690.938	ft	
Casing Diameter:	5.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.000	1.000	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.000	0.000	V
Reading in Free Pipe:	0.451	0.609	V
Gain:	157.284	116.529	
Offset:	1.000	1.000	

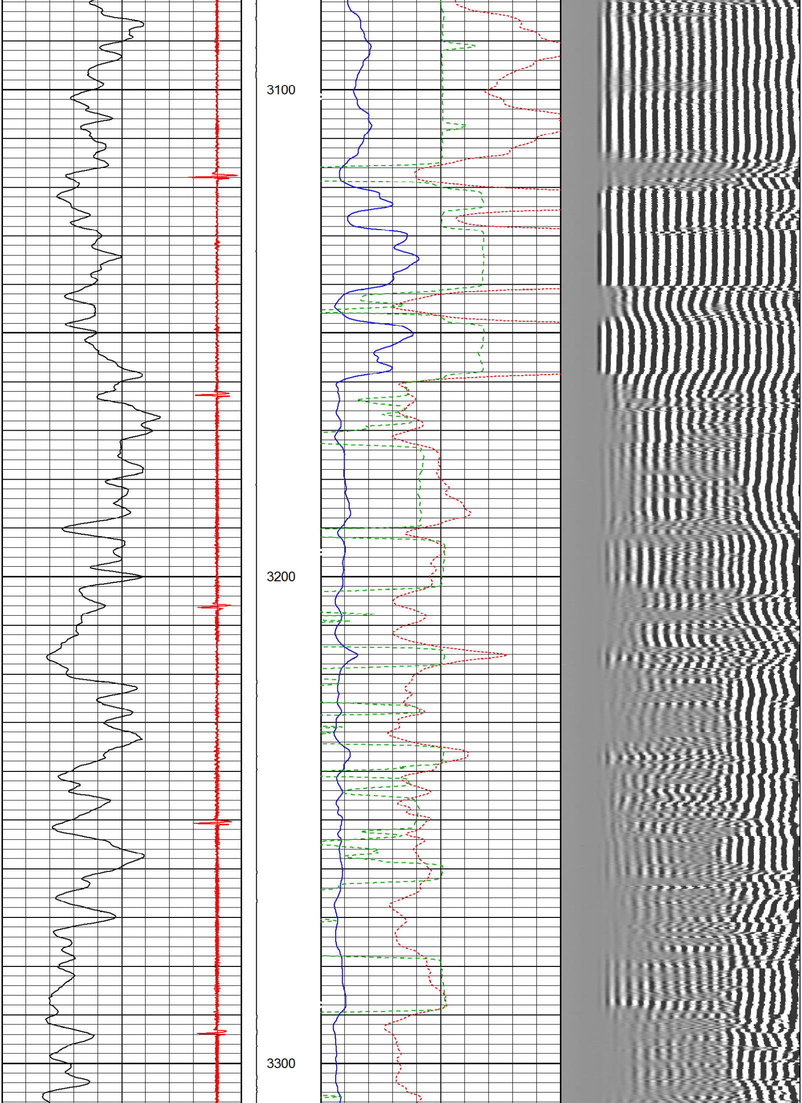
ROCKY MOUNTAIN WIRELINE SERVICE

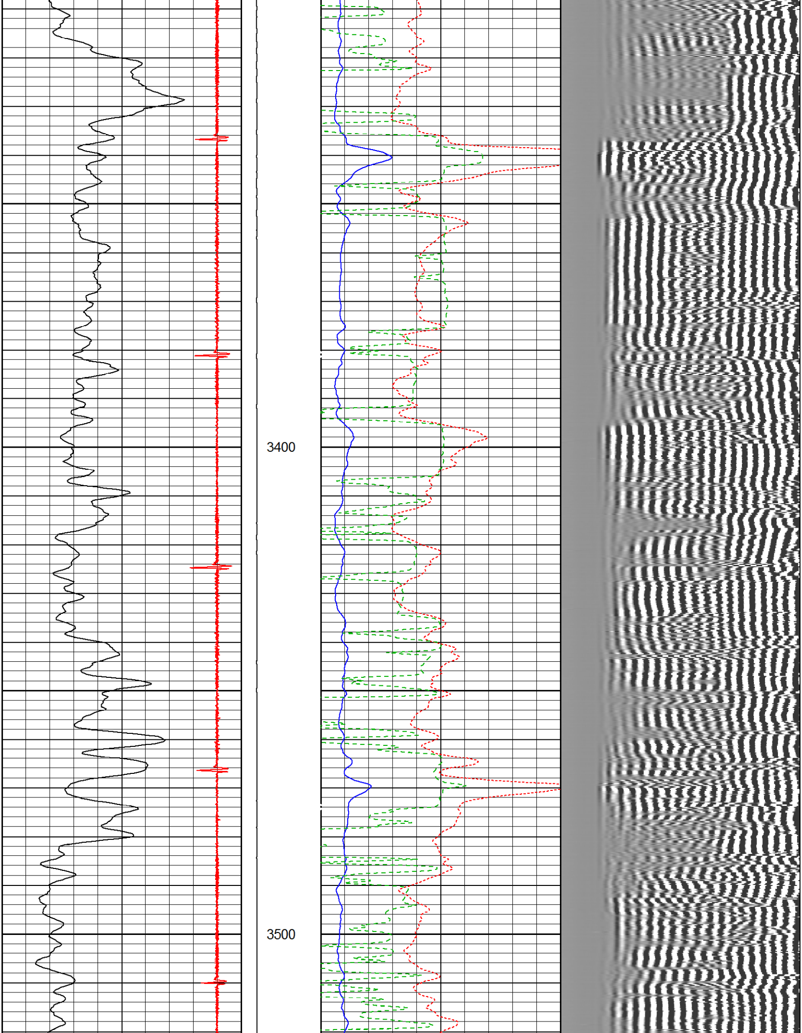
MAIN PASS

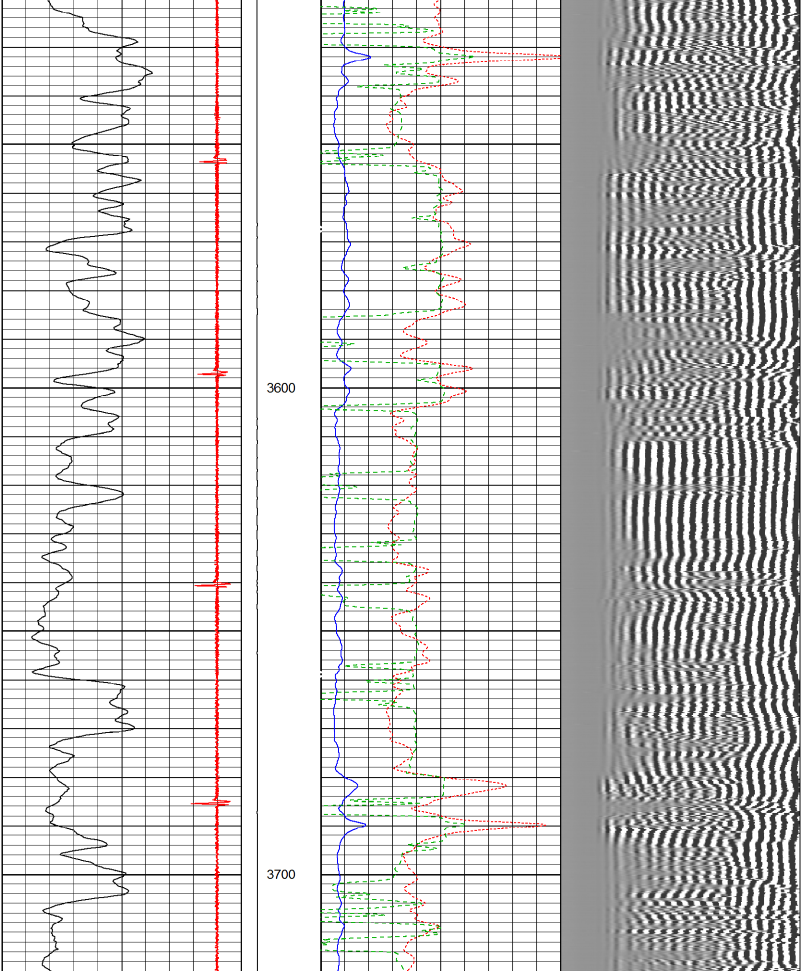
Database File:	06202014_wpx_gm702_4_hn1.db
Dataset Pathname:	main/pass1.2
Presentation Format:	rmws_dsc
Dataset Creation:	Fri Jun 20 11:18:43 2014 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240

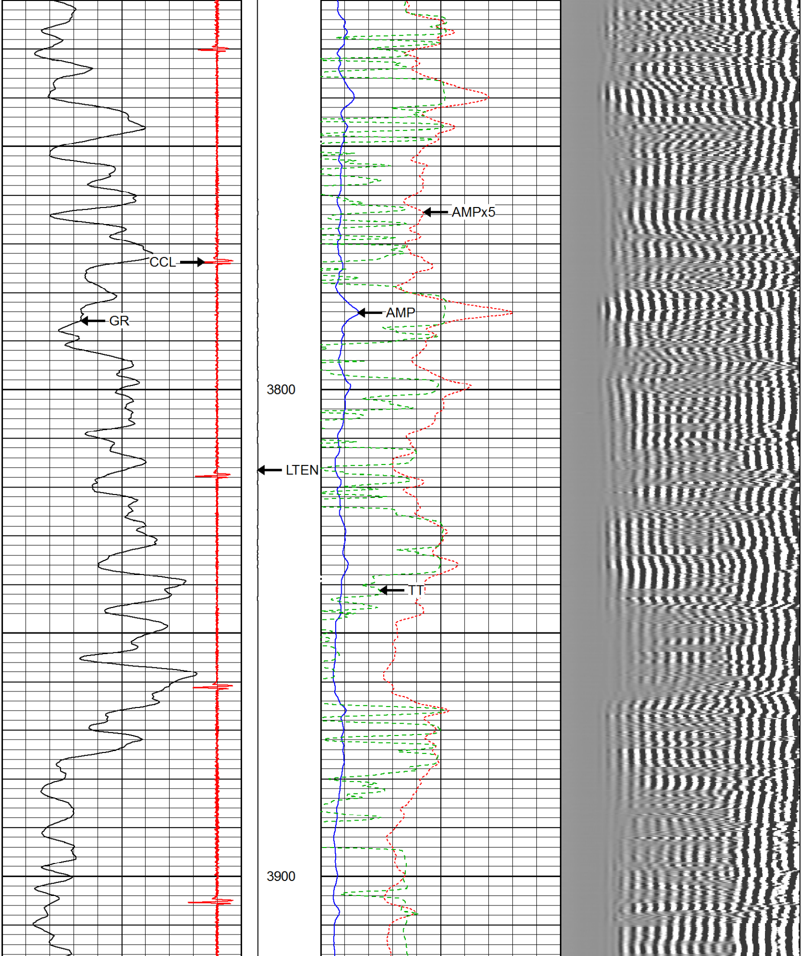


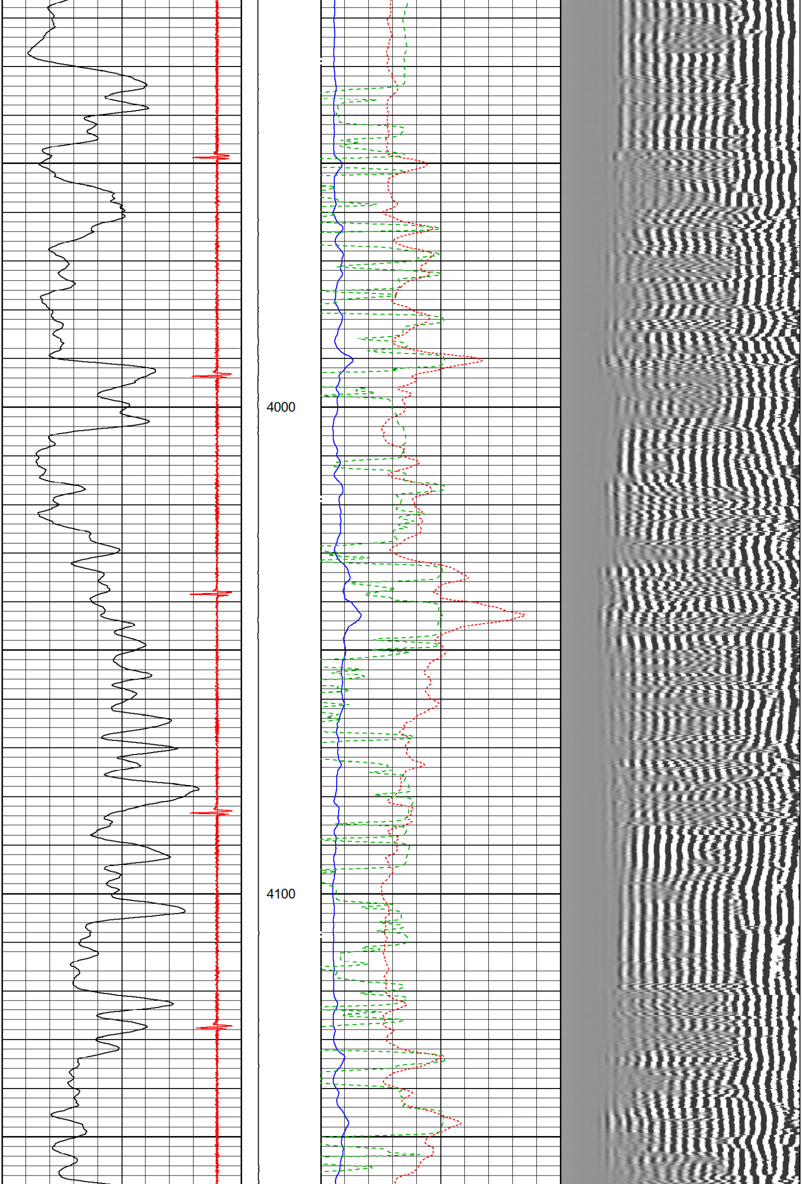


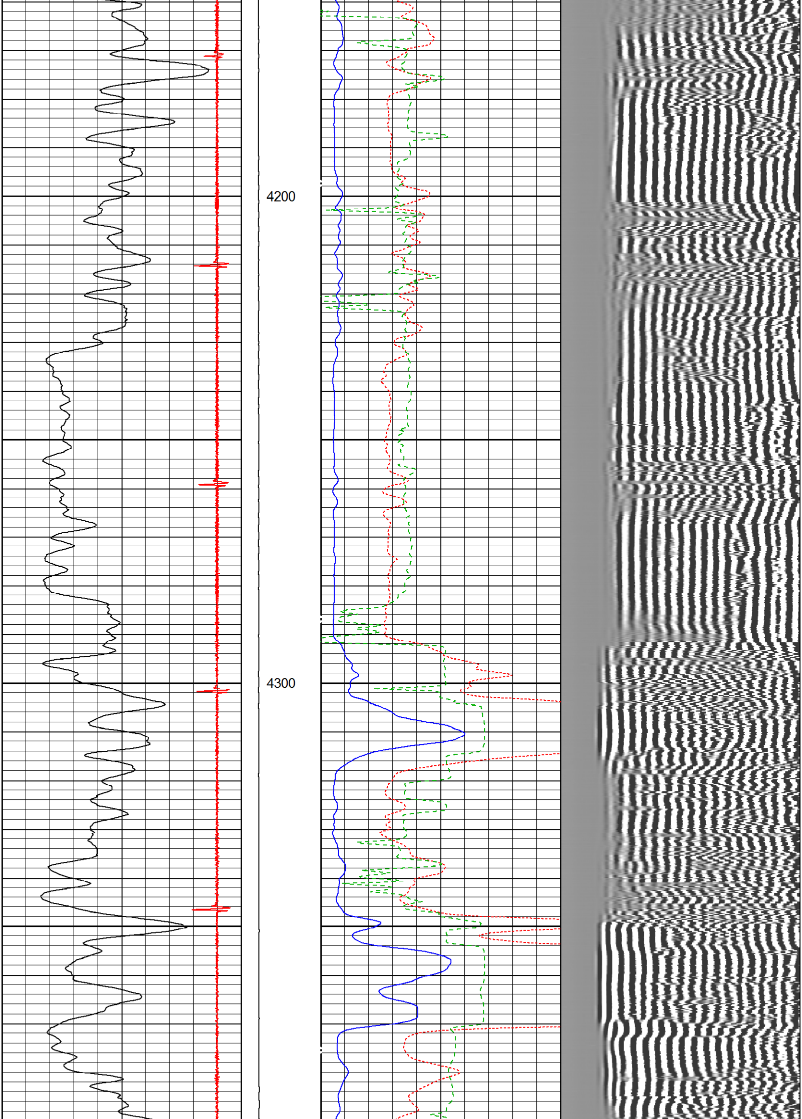


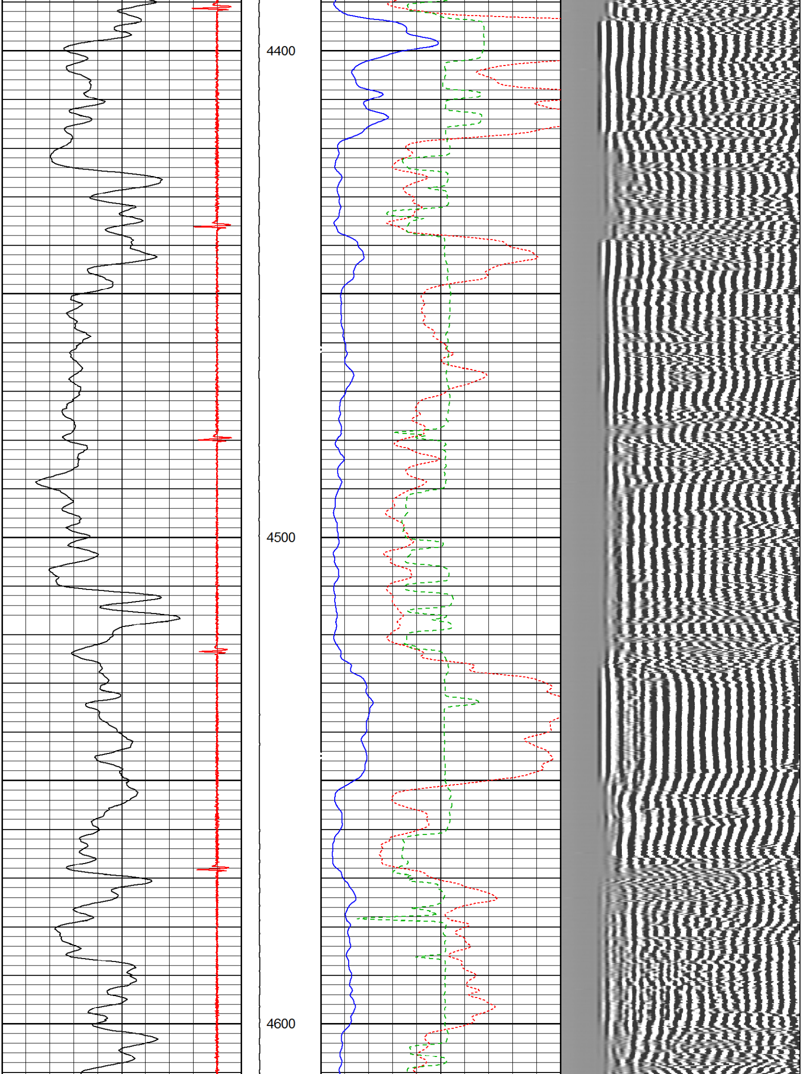


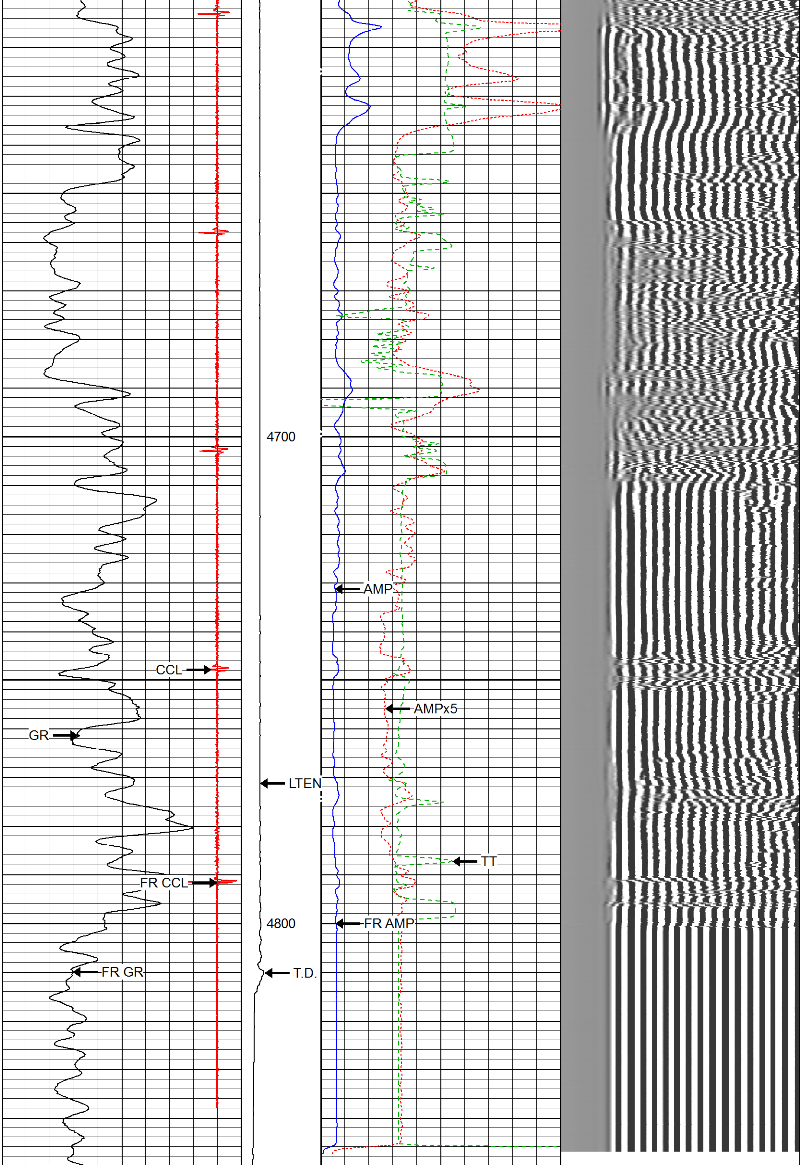


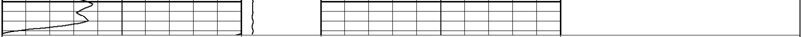












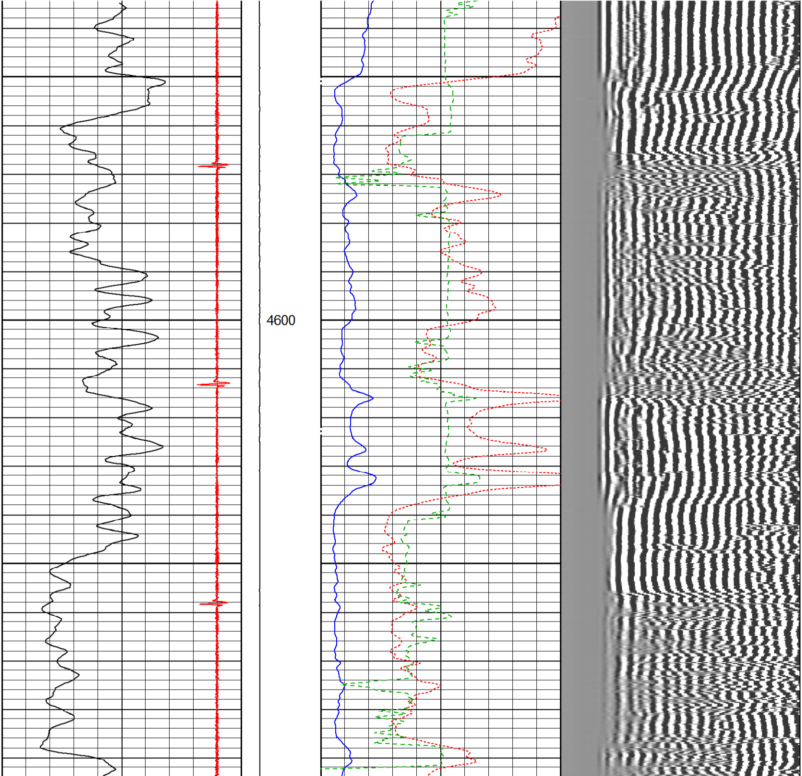
-27 CCL 3	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	

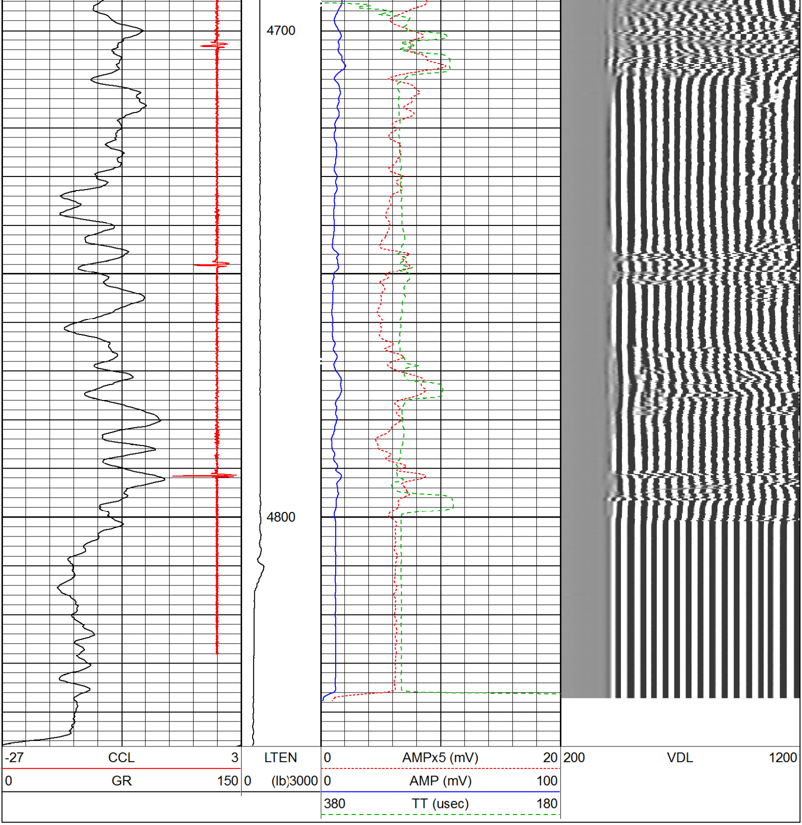
ROCKY MOUNTAIN WIRELINE SERVICE

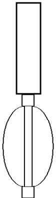
REPEAT PASS

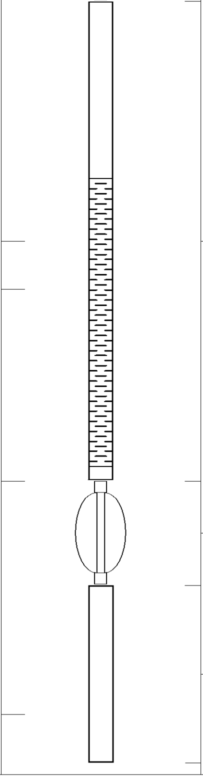
Database File:	06202014_wpx_gm702_4_hn1.db
Dataset Pathname:	repeat/pass1.1
Presentation Format:	rmws_dsc
Dataset Creation:	Fri Jun 20 11:20:33 2014 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240

-27 CCL 3	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	





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-TEKCO234 (TEKCO234_352) Tekco 2 3/4" Gamma Ray	3.69	2.75	20.00
GR	1.00				

Dataset:	06202014_wpx_gm702_4_hn1.db: field/well/main/pass1.2
Total Length:	19.94 ft
Total Weight:	90.00 lb
O.D.	3.25 in

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

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