RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL

Company	**WPX ENERGY, LLC**
Well	**FEDERAL GM 743 - 4**
Field	**GRAND VALLEY**
County	**GARFIELD**
State	**COLORADO**

Location: API # : 05 - 045 - 20912 - 0000

SHL: 1710' FSL & 0789' FEL
BHL: 1432' FSL & 0477' FEL

SEC 4 TWP 7S RGE 96W

Other Services

				Elevation
Permanent Datum	G.L.	Elevation	6065'	K.B. 6091'
Log Measured From	K.B.	Ft Above PD	26'	D.F. 6090'
Drilling Measured From	K.B.			G.L. 6065'

Date	06 - 16 - 2015		
Run Number	ONE		
Depth Driller	11391'		
Present Depth Driller	6315'		
Depth Logger	6315'		
Bottom Logged Interval	6314'		
Top Log Interval	4300'		
Fluid Level	600'		
Type Fluid	WATER		
Max. Recorded Temp.	NA		
Estimated Cement Top	6114'		
Equipment Number	219		
Location	GRAND JCT.		
Recorded By	INGRAM	FERNANDEZ	T. JOHNSON
Witnessed By	MR. WELSH		

	Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				9.625"		SURFACE	2230'
				5.5"	20#	SURFACE	11391'

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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: LOG WAS DEPTH CORRELATED USING BAKER HUGHES RADIAL ANALYSIS BOND LOG DATED 10-18-2011

MAIN PASS 5" = 100'
CSG PSI = STATIC

Calibration Report

Database File:	061615_wpx_federal_gm_743_4.db
Dataset Pathname:	main/pass1.1
Dataset Creation:	Tue Jun 16 08:54:10 2015 by Calc SCH 120430

Gamma Ray Calibration Report

Serial Number:	10007620	
Tool Model:	020	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1122	
Tool Model:	004	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	5343.533	ft

Master Calibration, performed Tue Jun 16 08:53:35 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.000	1.143	1.000	71.921	62.070	1.000
5FT	-0.007	1.211	1.000	71.921	58.236	1.407
S1	0.000	1.177	0.000	100.000	84.970	-0.000
S2	0.000	1.159	0.000	100.000	86.292	-0.000
S3	0.000	1.213	0.000	100.000	82.455	-0.001
S4	0.000	1.189	0.000	100.000	84.071	-0.001
S5	0.000	1.251	0.000	100.000	79.938	-0.001
S6	0.000	1.240	0.000	100.000	80.668	-0.001
S7	0.000	1.247	0.000	100.000	80.208	-0.000
S8	0.000	1.200	0.000	100.000	83.316	-0.000

Calibration Report

Serial Number:	1122
Tool Model:	004
Performed:	

	Reference (degF)	Reading ()
Low:	0.000	0.000
High:	1.000	1.000
	Gain = 1.000	Offset= 0.000

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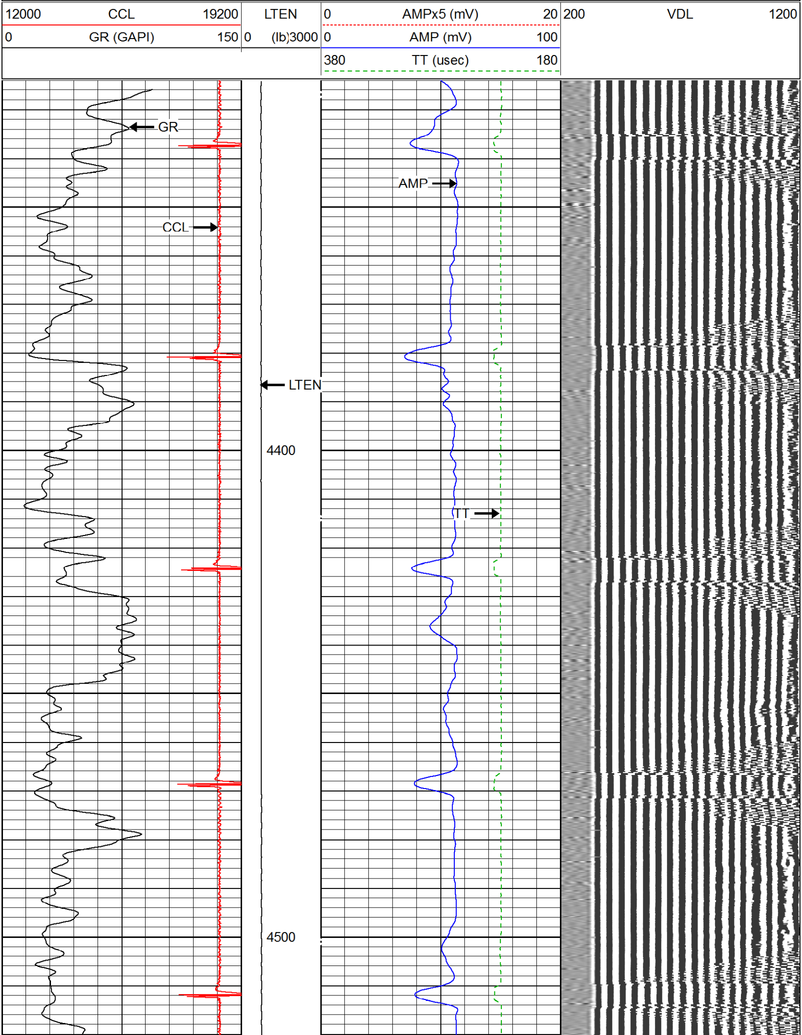
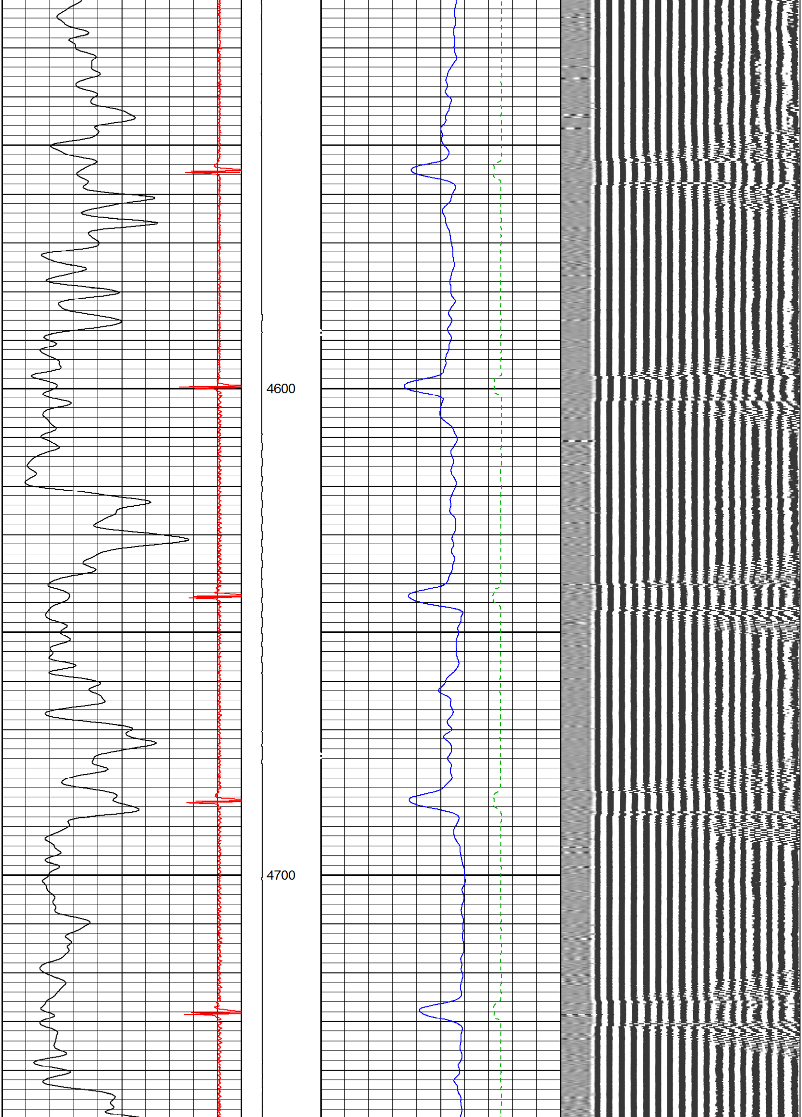
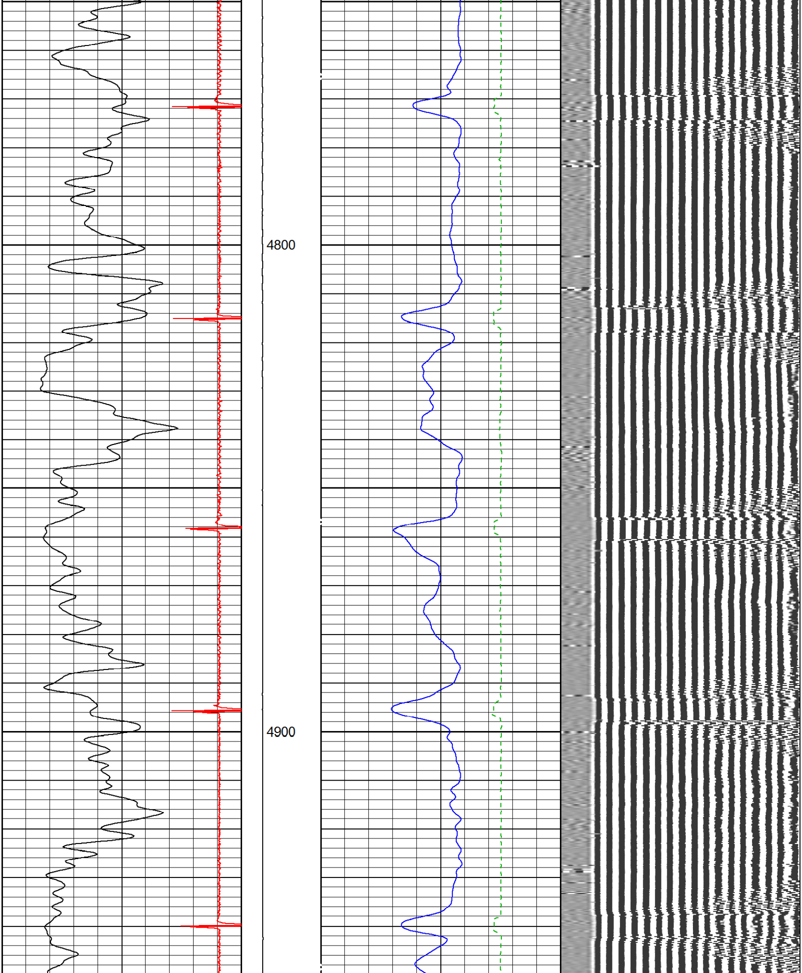
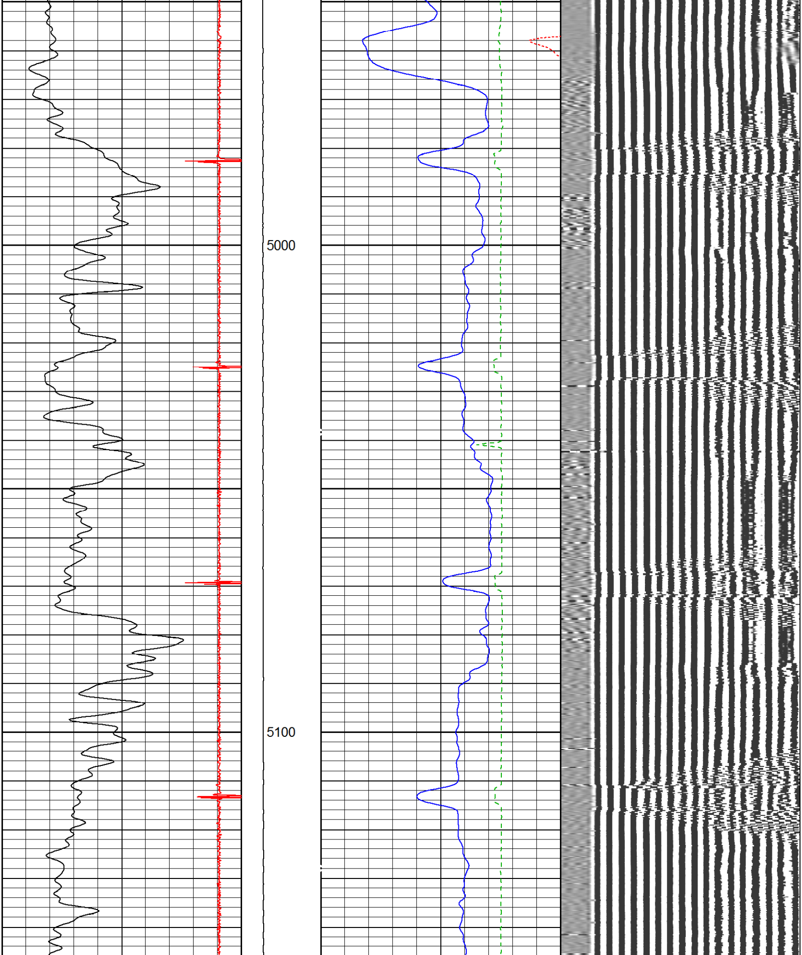
MAIN PASS

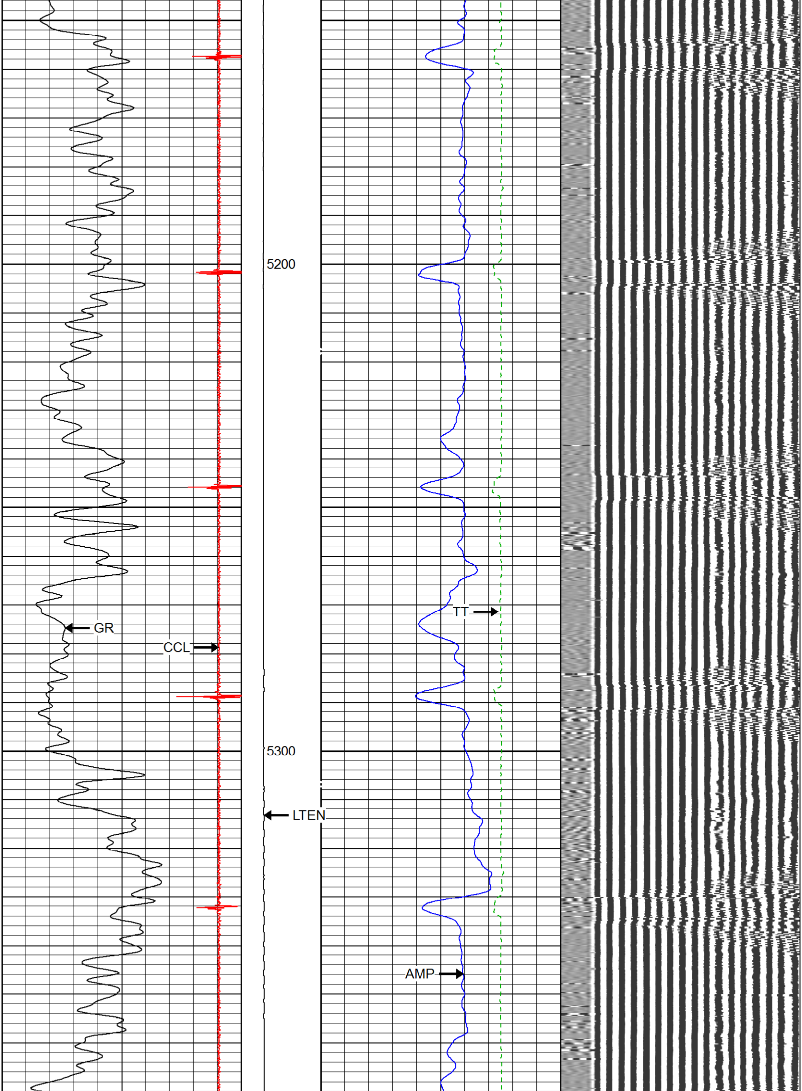
Database File:	061615_wpx_federal_gm_743_4.db
Dataset Pathname:	main/pass1.1
Presentation Format:	rmws_dsc
Dataset Creation:	Tue Jun 16 08:54:10 2015 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240

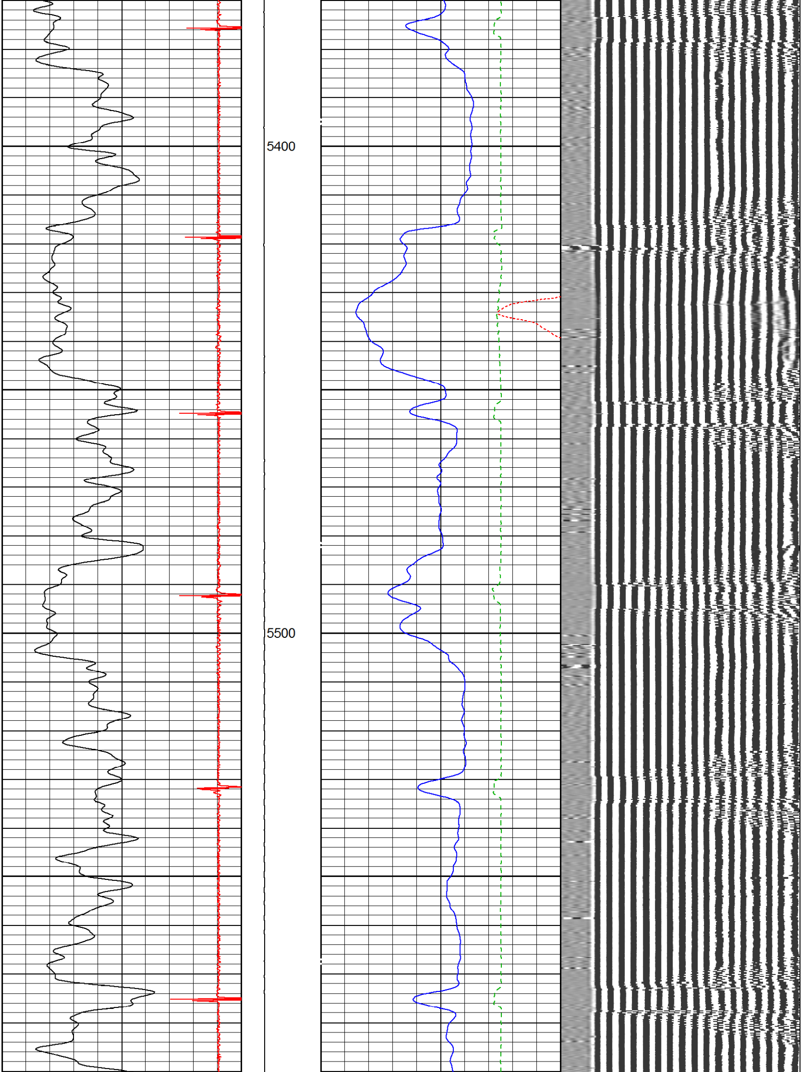


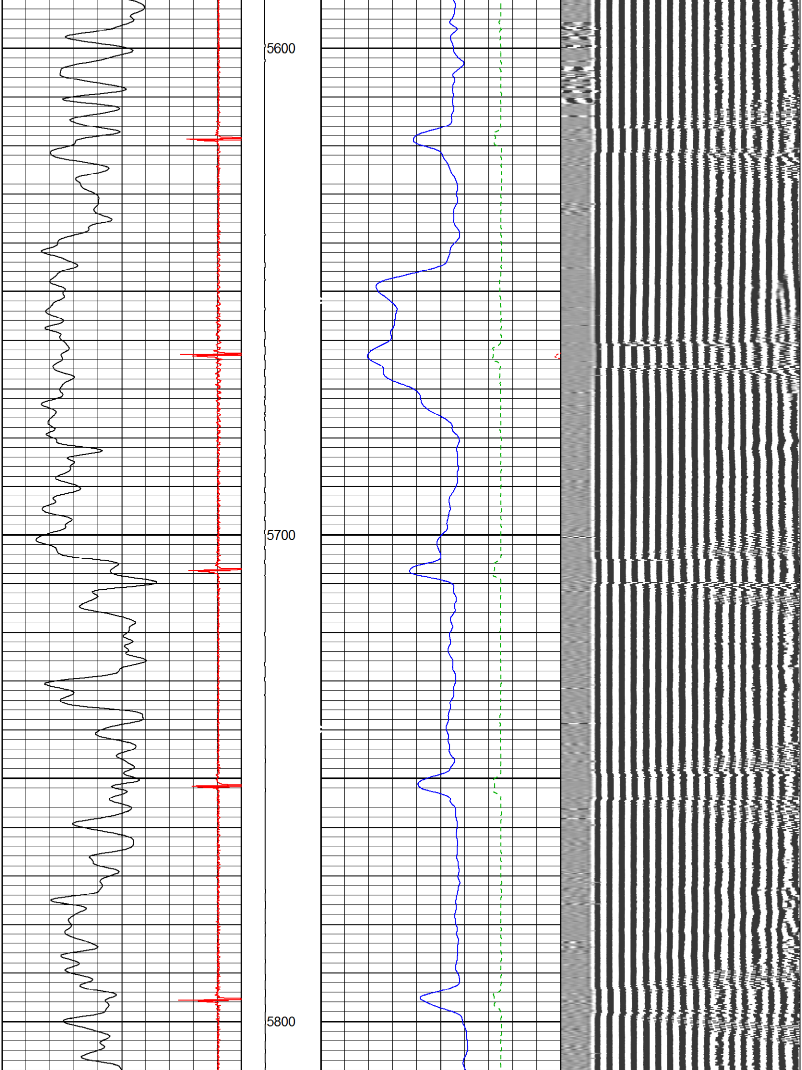


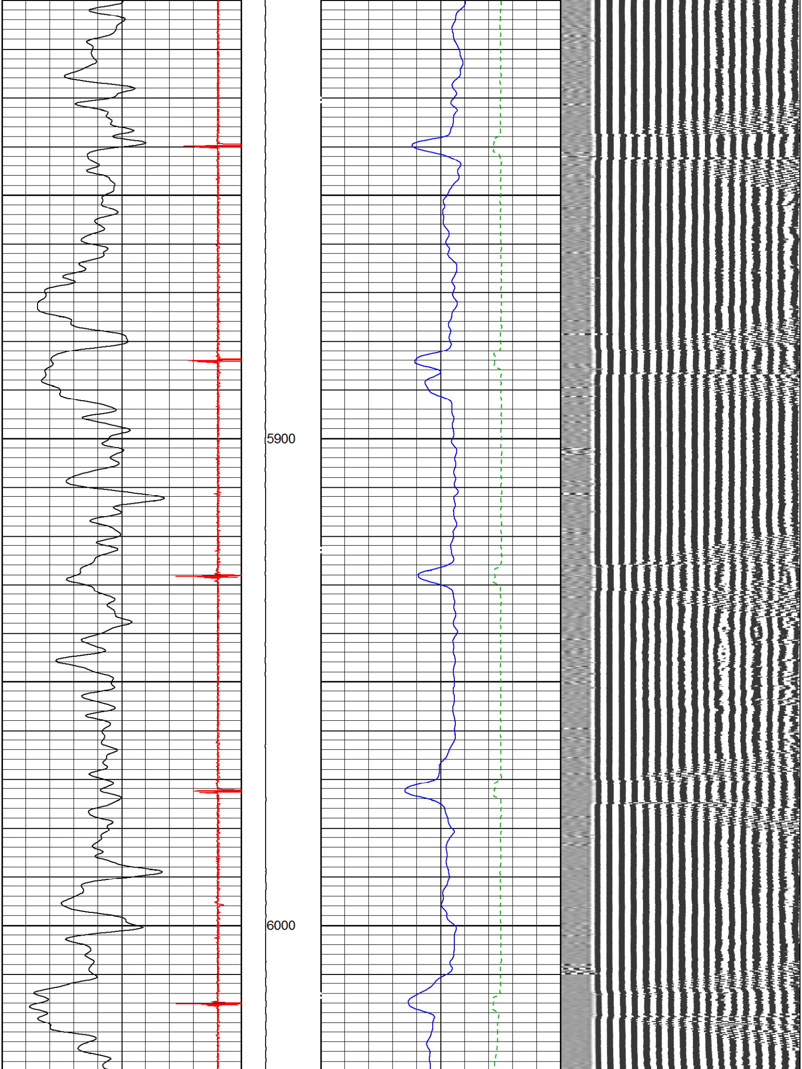


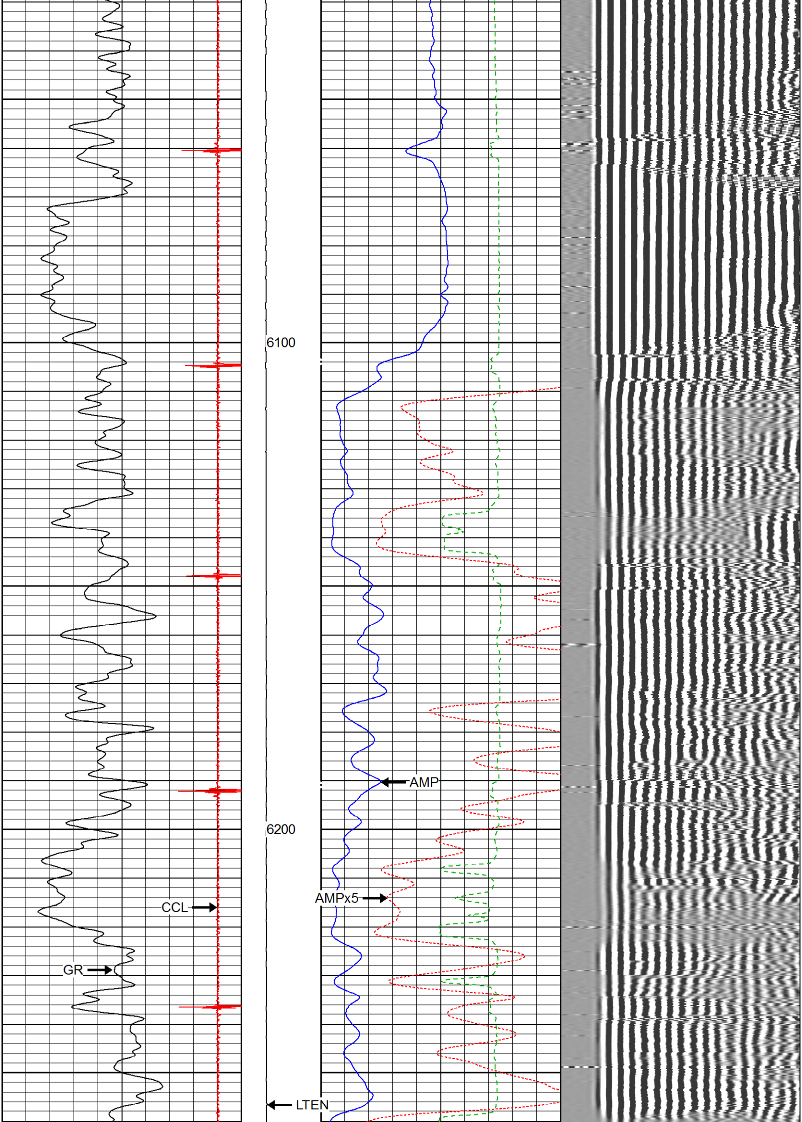


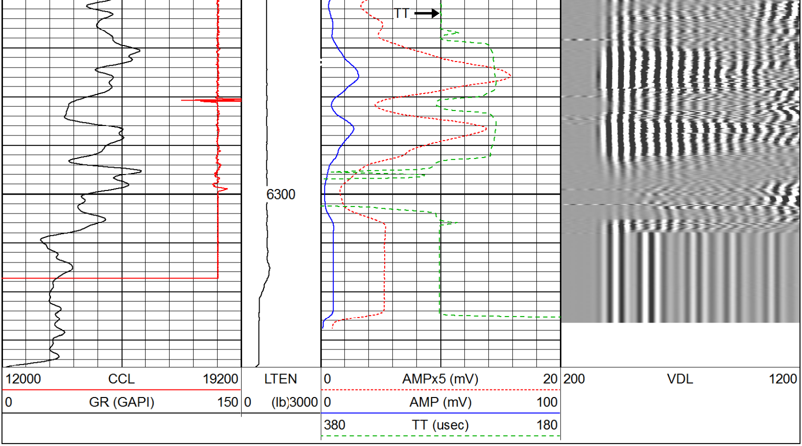












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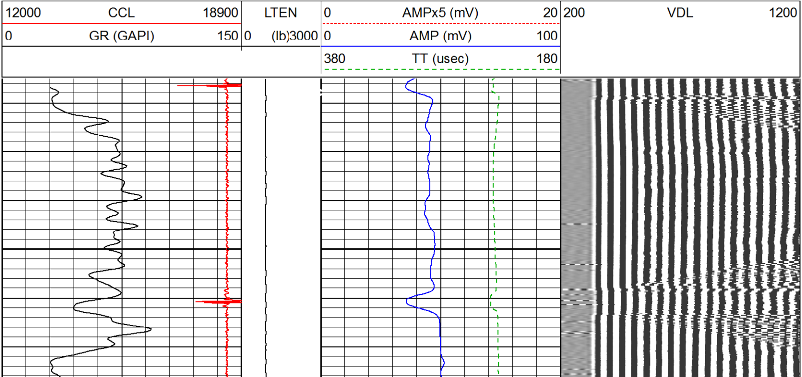
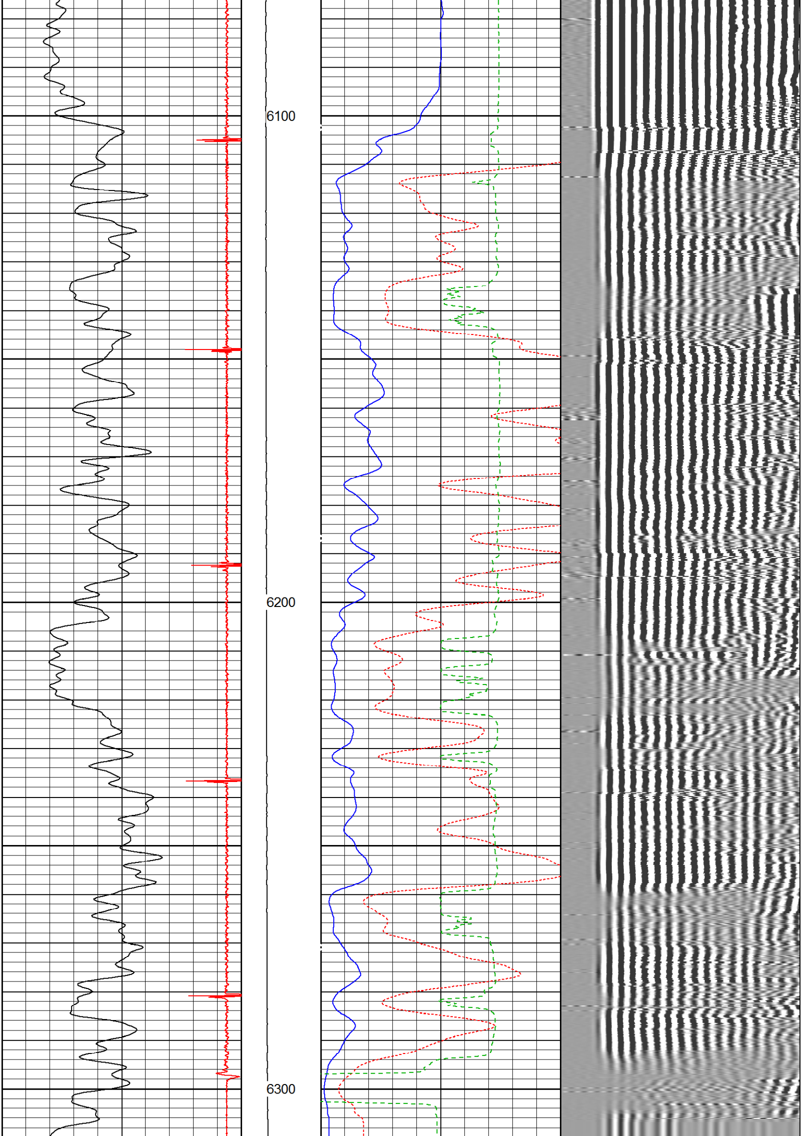
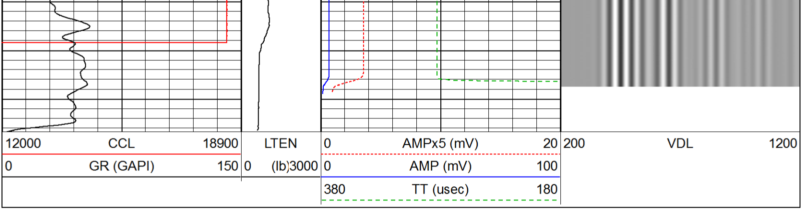
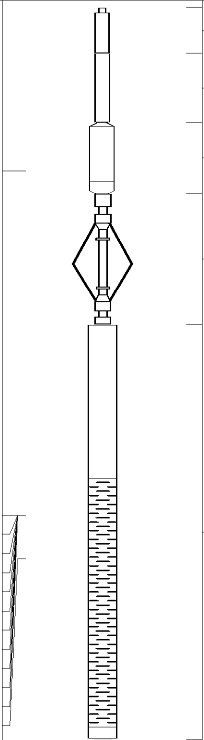
REPEAT PASS

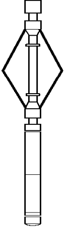
Database File:	061615_wpx_federal_gm_743_4.db
Dataset Pathname:	repeat/pass1.1
Presentation Format:	rmws_dsc
Dataset Creation:	Tue Jun 16 08:55:48 2015 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240







Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (216414) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
CCL	18.13		CCL-028 (1036) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			PRC-022 (215770) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	10.28 10.28 10.28 10.28 10.28 10.28 10.28 10.28 10.28 10.28 10.28 9.28		RBT-004 (1122) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00



		PRC-022 (215771) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
GR	0.72	PGR-020 (10007620) Production Gamma Ray	1.93	1.69	9.50
TSTAMP	0.00				
ITEMPX	0.00	BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20
HVOLTX	0.00				

Dataset:	061615_wpx_federal_gm_743_4.db: field/well/main/pass1.1
Total Length:	21.85 ft
Total Weight:	238.00 lb
O.D.	3.13 in

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