Cutters Wireline Service, Inc.
A Cased Hole Wireline Company

Radial Cement Bond Gamma Ray CCL Log

Company	Synergy Resources Corporation
Well	Vista D-2N-A
Field	Wattenberg
County	Weld
State	Colorado

Company Synergy Resources Corporation
Well Vista D-2N-A
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-41061
2143' FSL & 254' FWL
NWSW
SEC 2 TWP 4-N RGE 68W

Other Services
NONE

Permanent Datum Ground level Elevation 5000'
Log Measured From KB 20' APD
Drilling Measured From KB

Elevation
K.B. 5020'
D.F. 5019'
G.L. 5000'

Date	03-29-2016
Run Number	One
Depth Driller	11570'
Depth Logger	7100'
Bottom Logged Interval	7098'
Top Log Interval	Surface
Open Hole Size	7 7/8"
Type Fluid	Water
Density / Viscosity	-
Max. Recorded Temp.	230 F
Estimated Cement Top	250'
Time Well Ready	On arrival
Time Logger on Bottom	See Log
Equipment Number	WL-062
Location	Windsor colorado
Recorded By	B. Norris
Witnessed By	Chris Rodriguez

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	5 1/2"	17#	Surface	11570'
Liner			Marker Joint	5330'- to 5351'

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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.

Comments

********* Thank You For Using Cutters Wireline *********
Primary log on well

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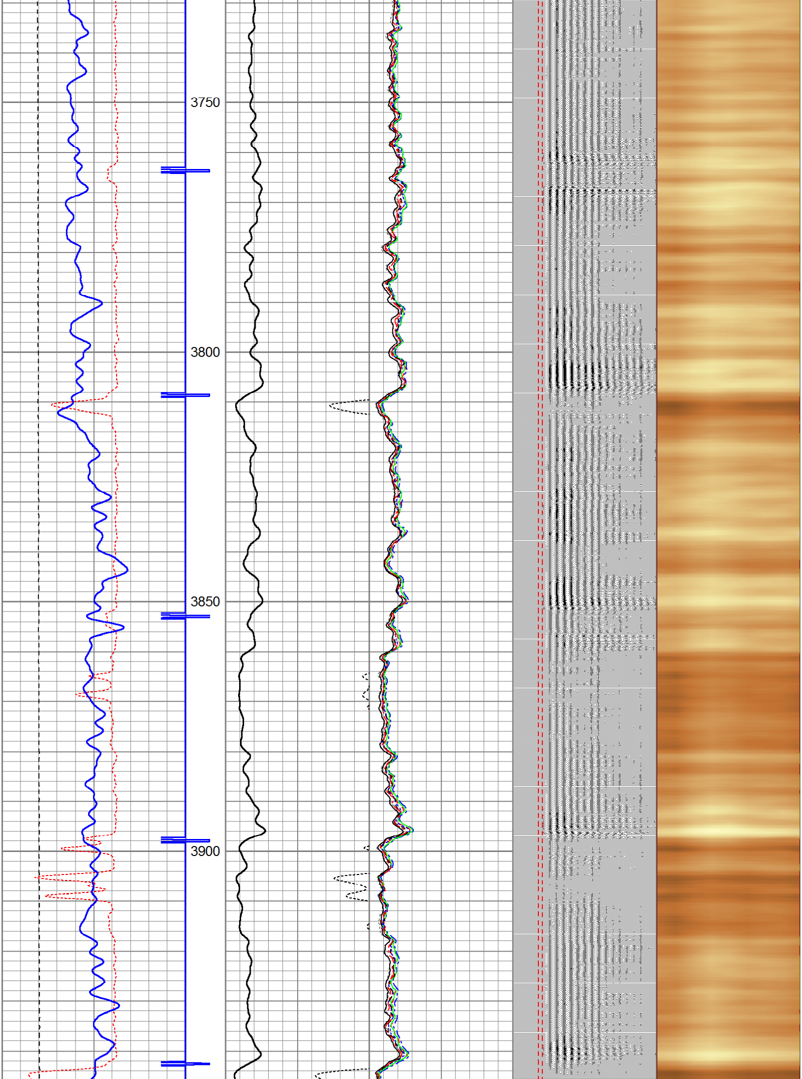
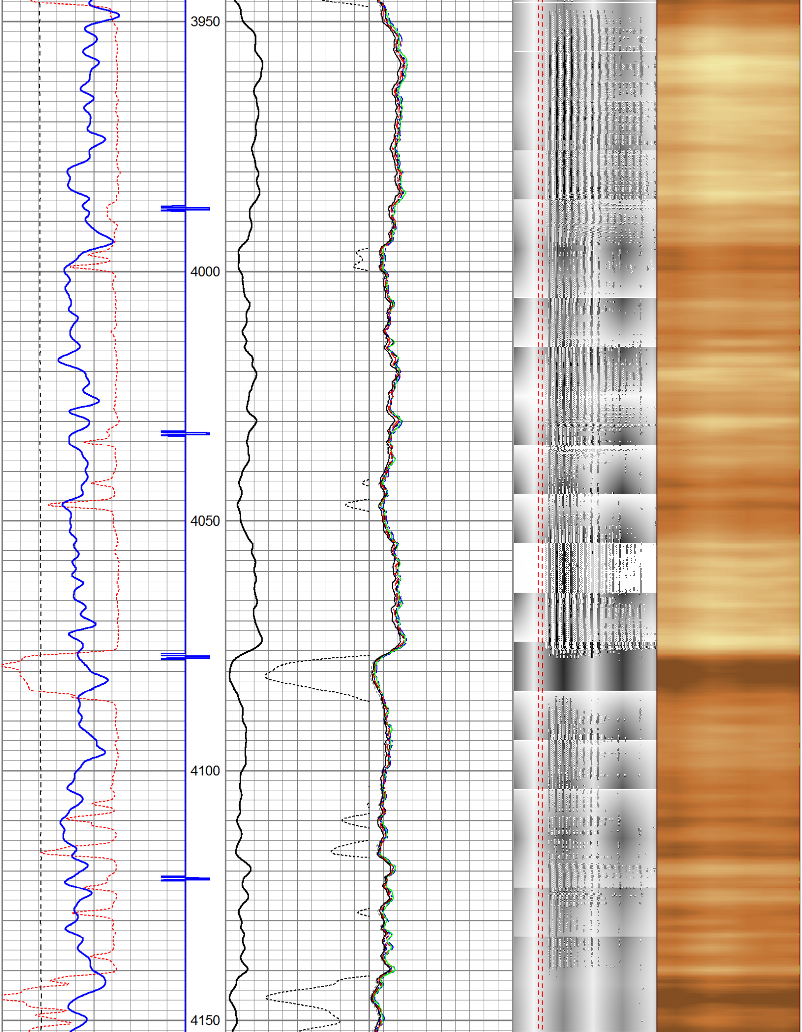
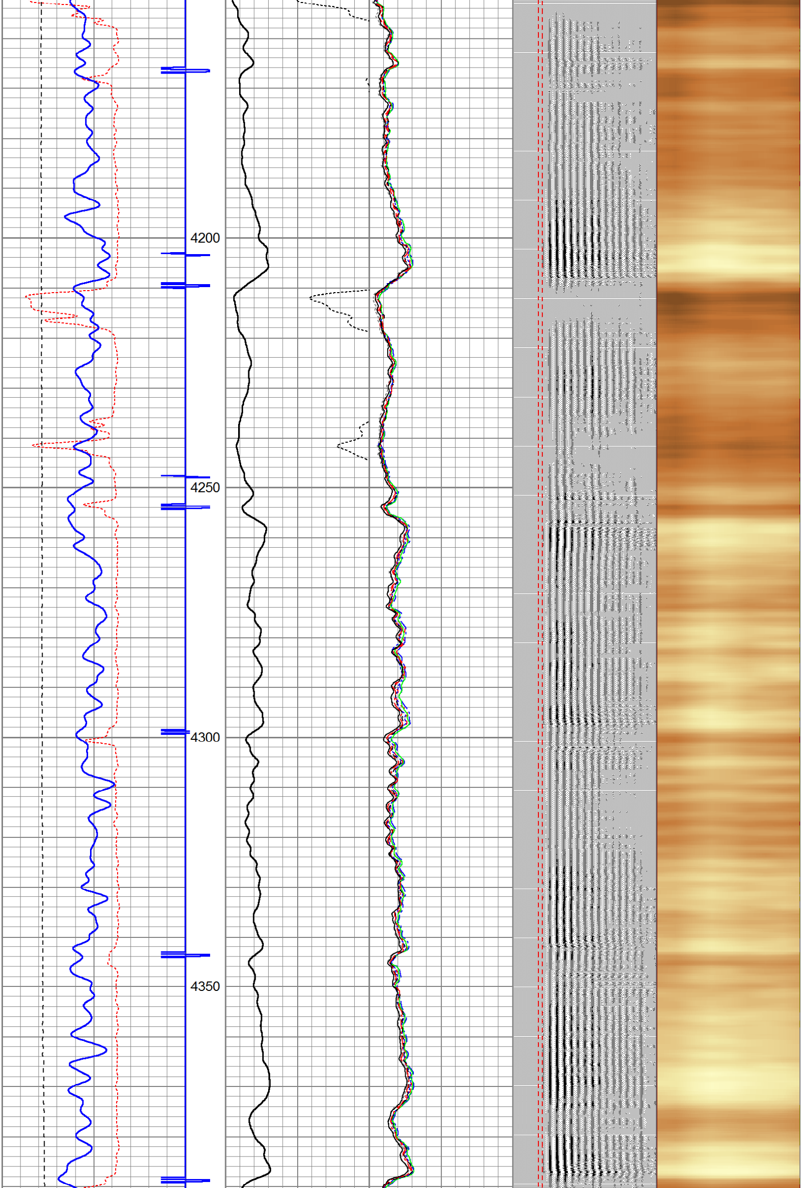
Main Pass 5" = 100' (2800 psi)

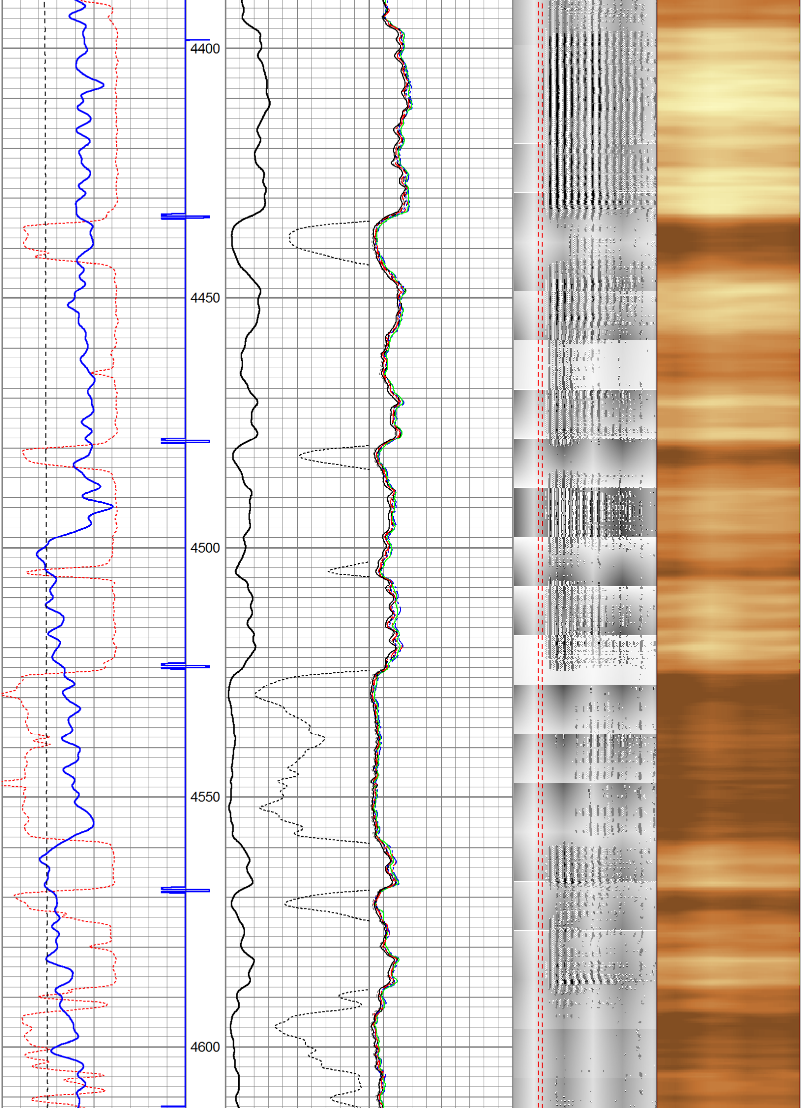
Database File: c:\warrior\data\synergy_vista_d_2n_a_rbl\synergy_vista_d_2n_a_rbl.db
Dataset Pathname: pass13.1
Presentation Format: rbl55
Dataset Creation: Tue Mar 29 18:46:51 2016 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

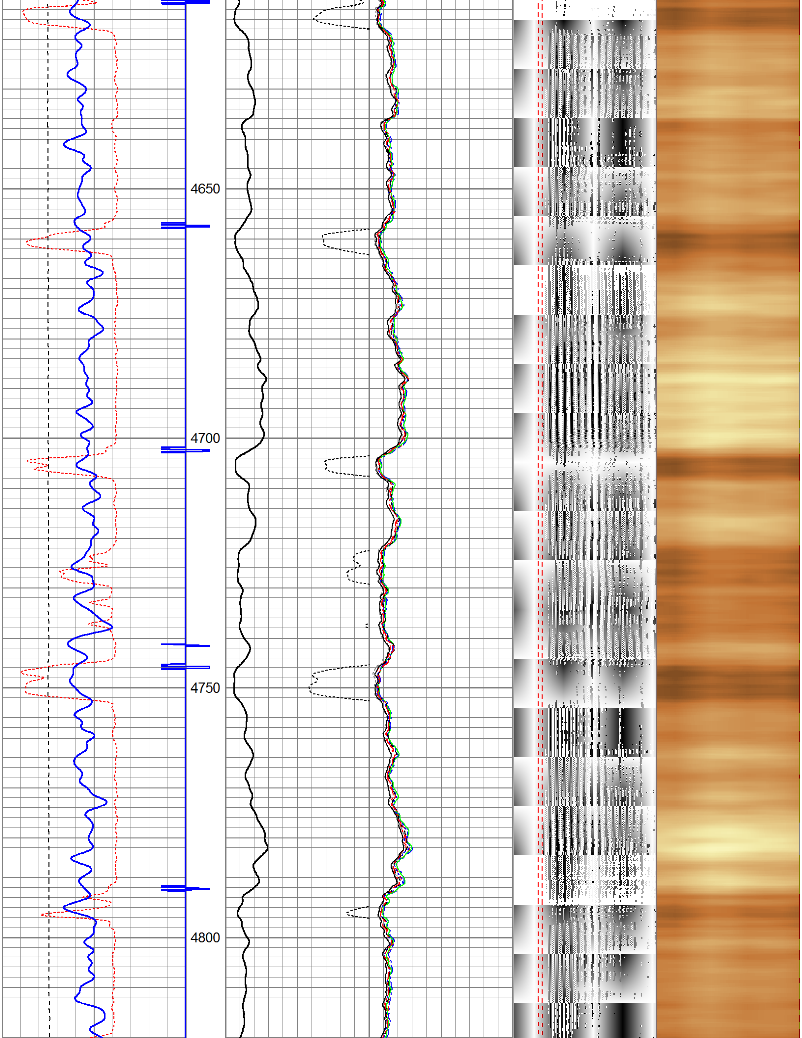
343 TT (usec) 243 0 GR (GAPI) 200 0 LTEN (lb) 4000	CCL	0 Amplitude (mV) 100 Amplified Amplitude 0 (mV) 10	-5 AMPS2 150 -5 AMPS3 150 -5 AMPS4 150 -5 AMPS5 150 -5 AMPS6 150 -5 AMPS7 150 -5 AMPS8 150 -5 AMPS1 150	200 VDL 1200 Free Pipe Gate	Cement Map 1 80

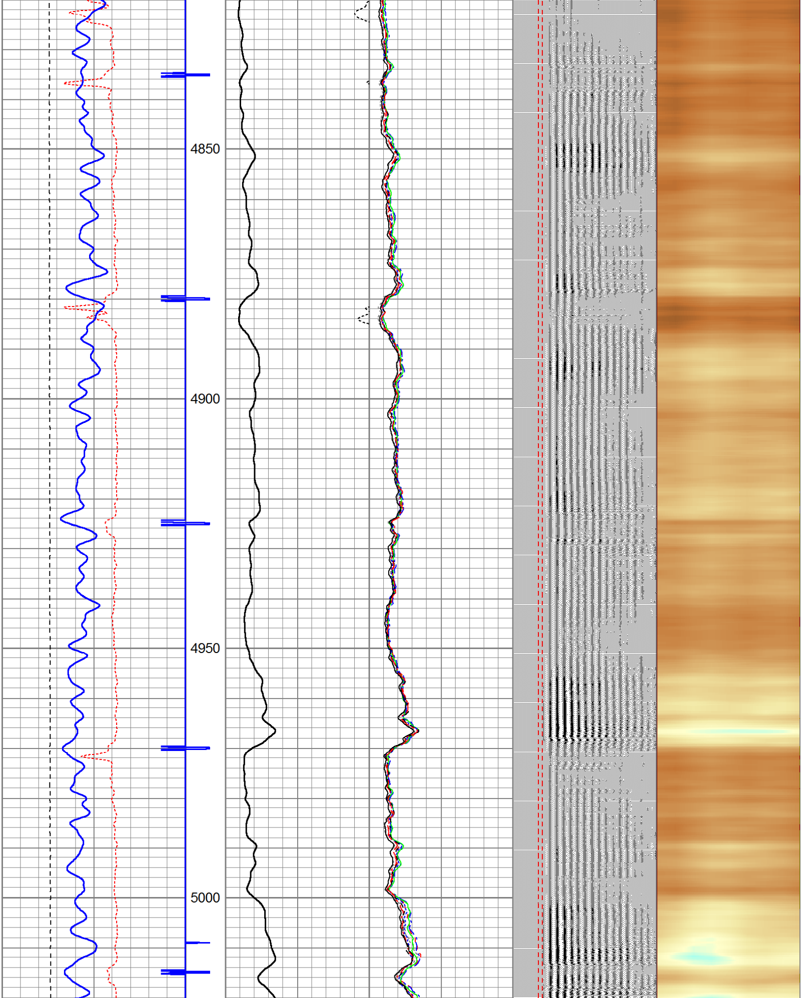


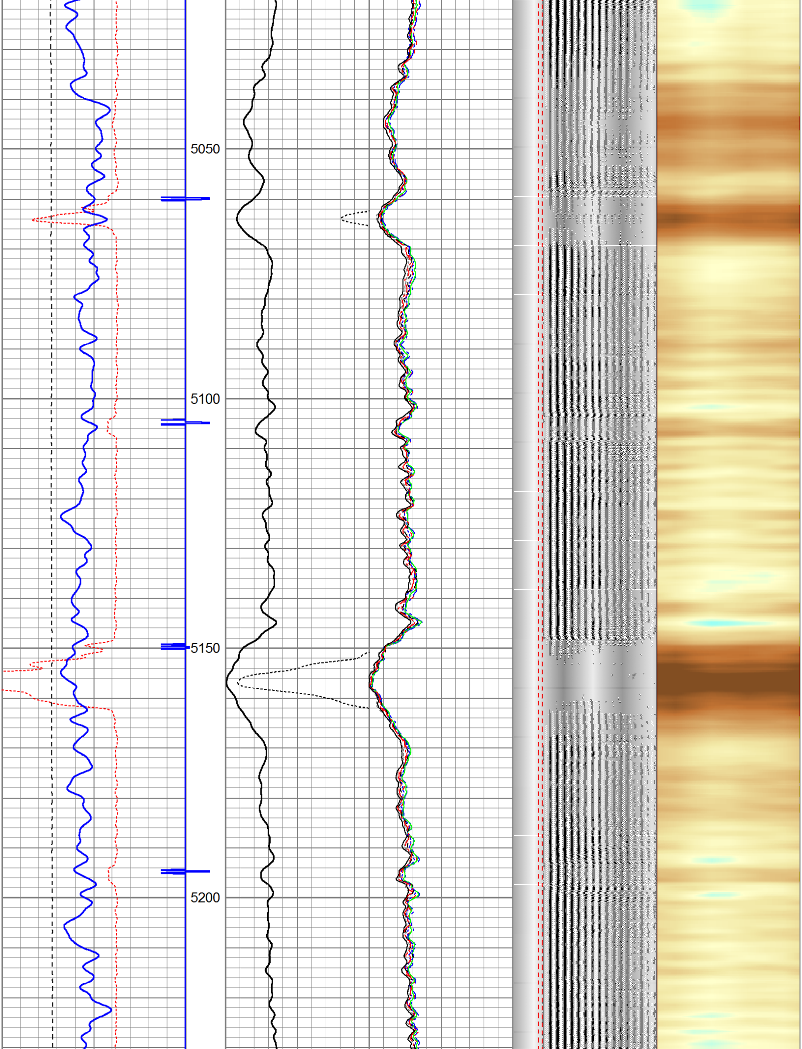


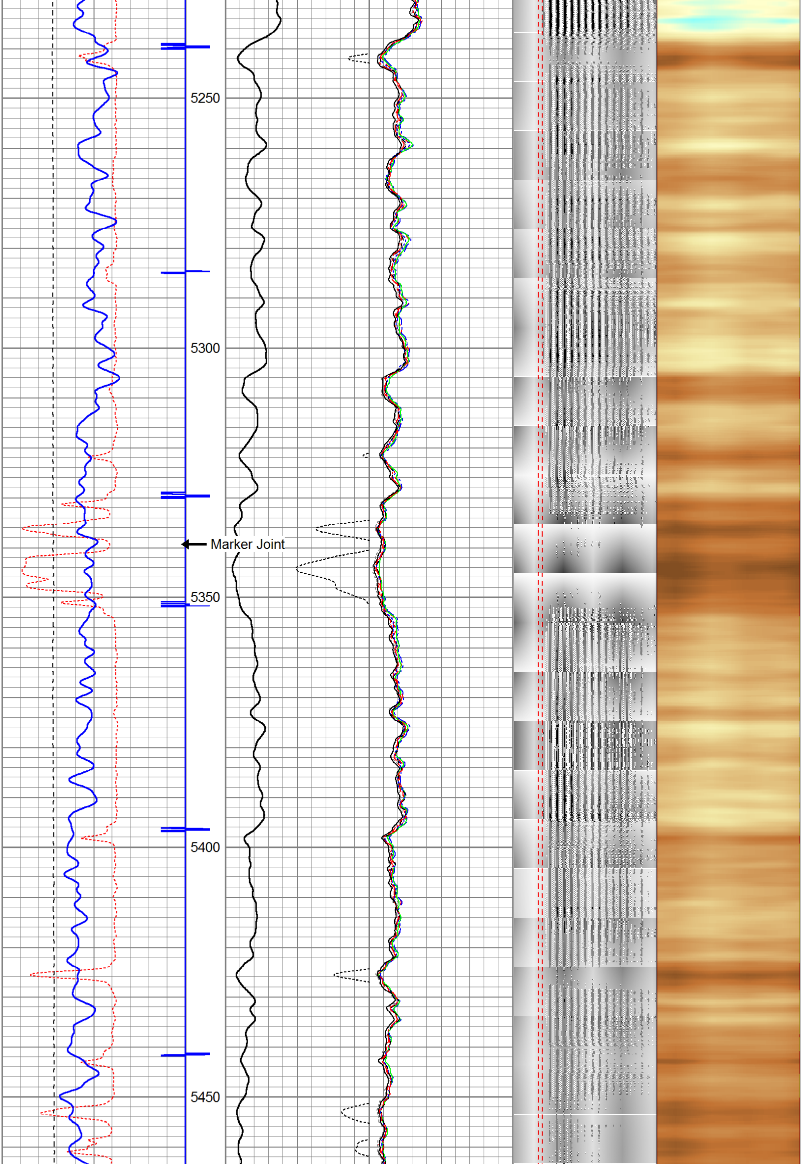


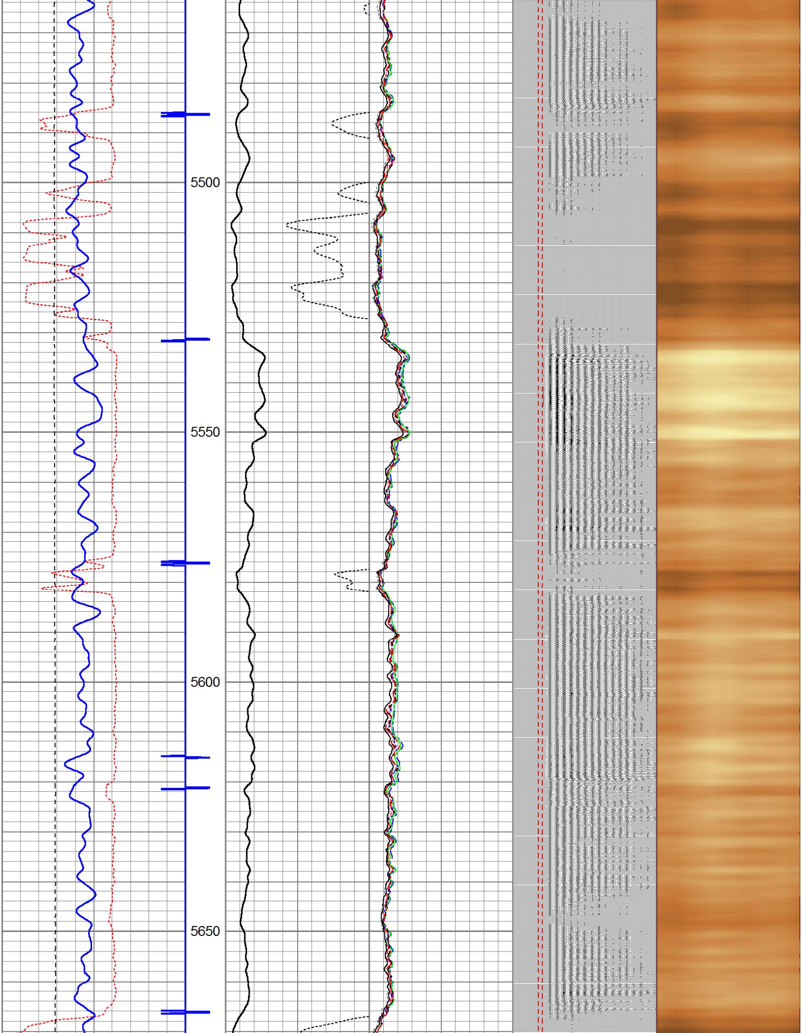


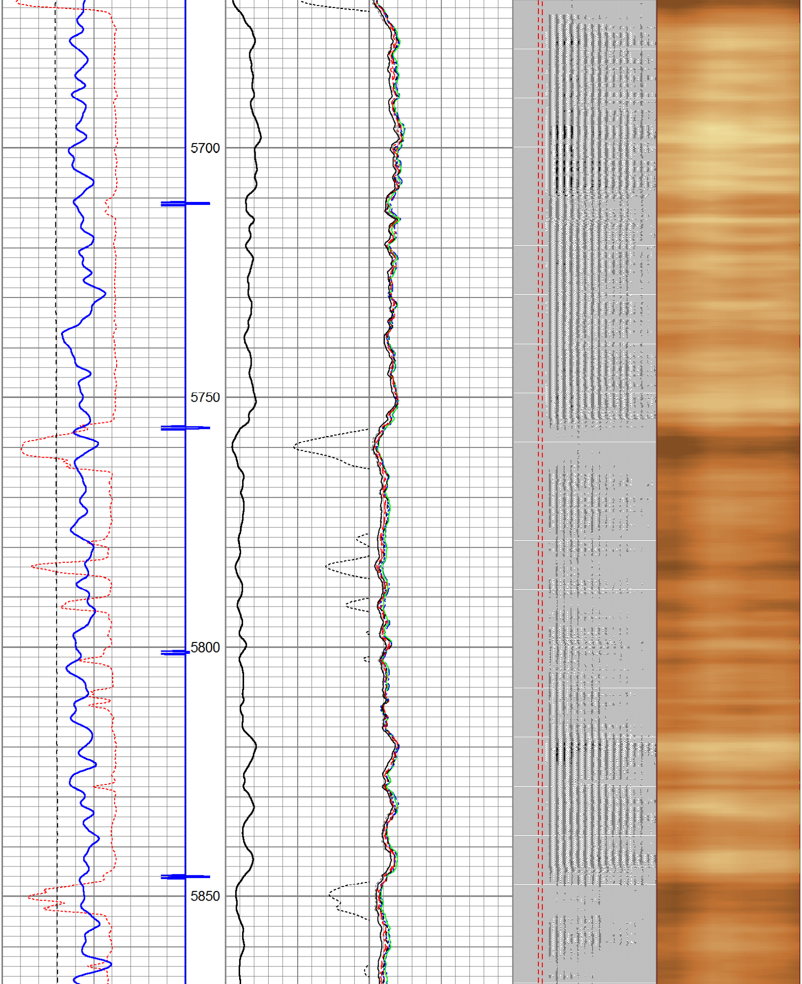


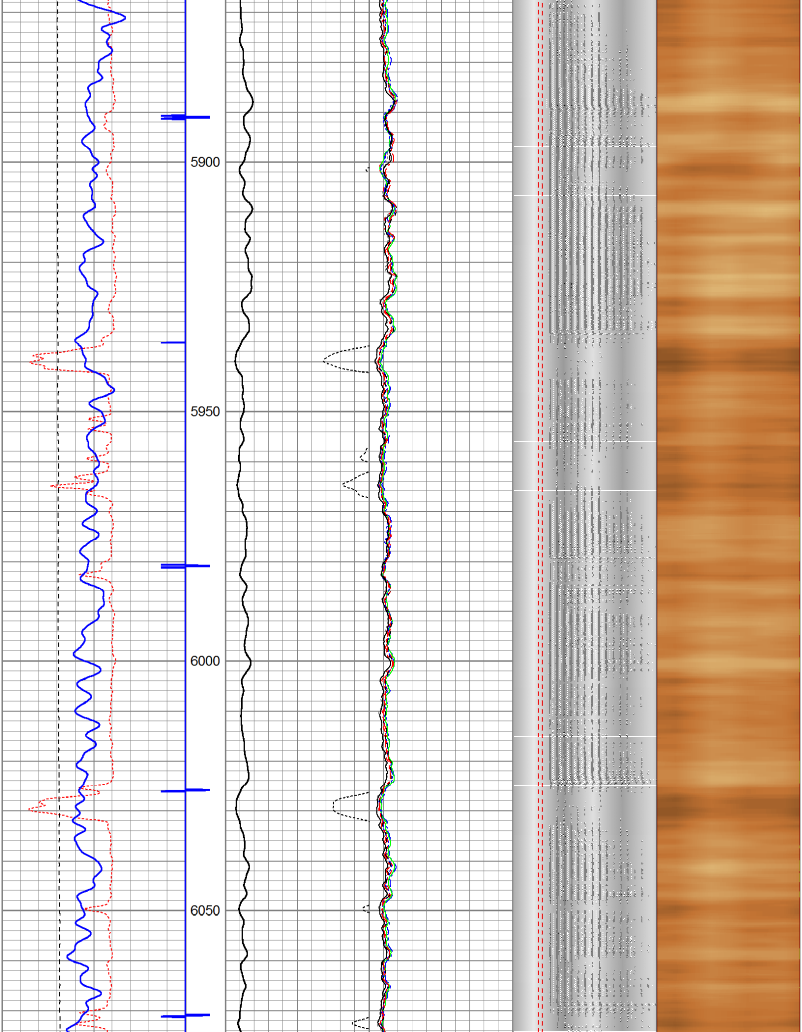


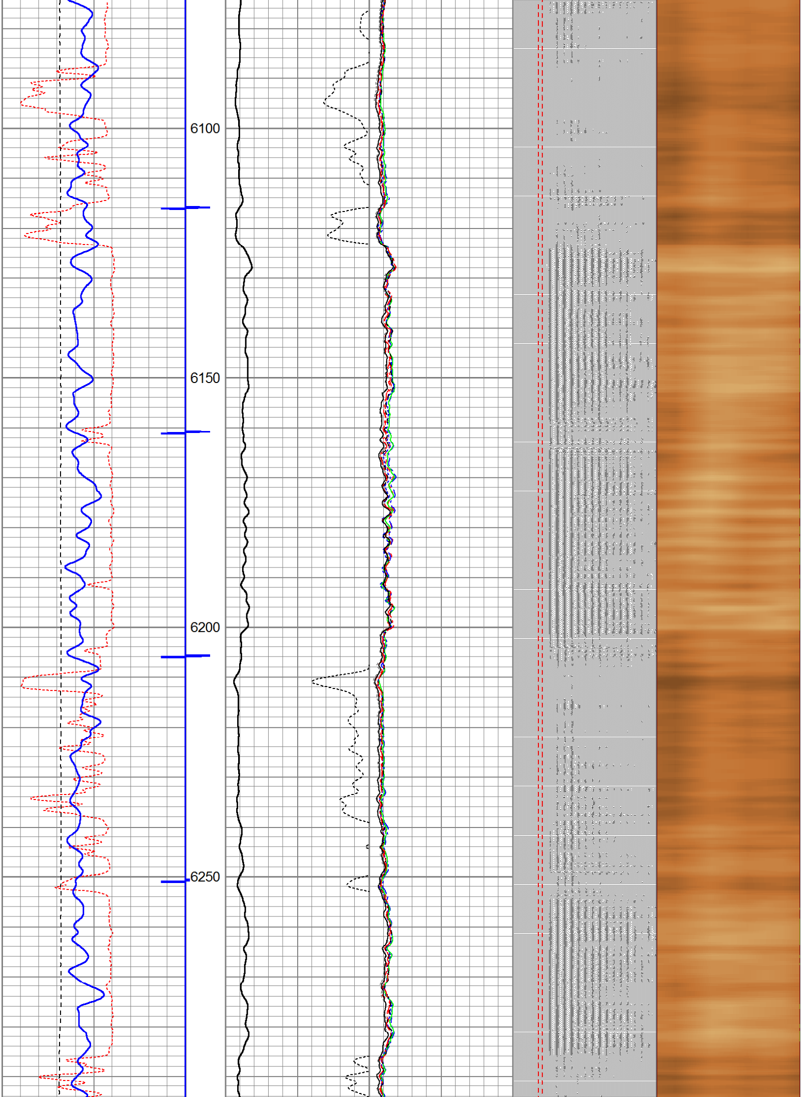


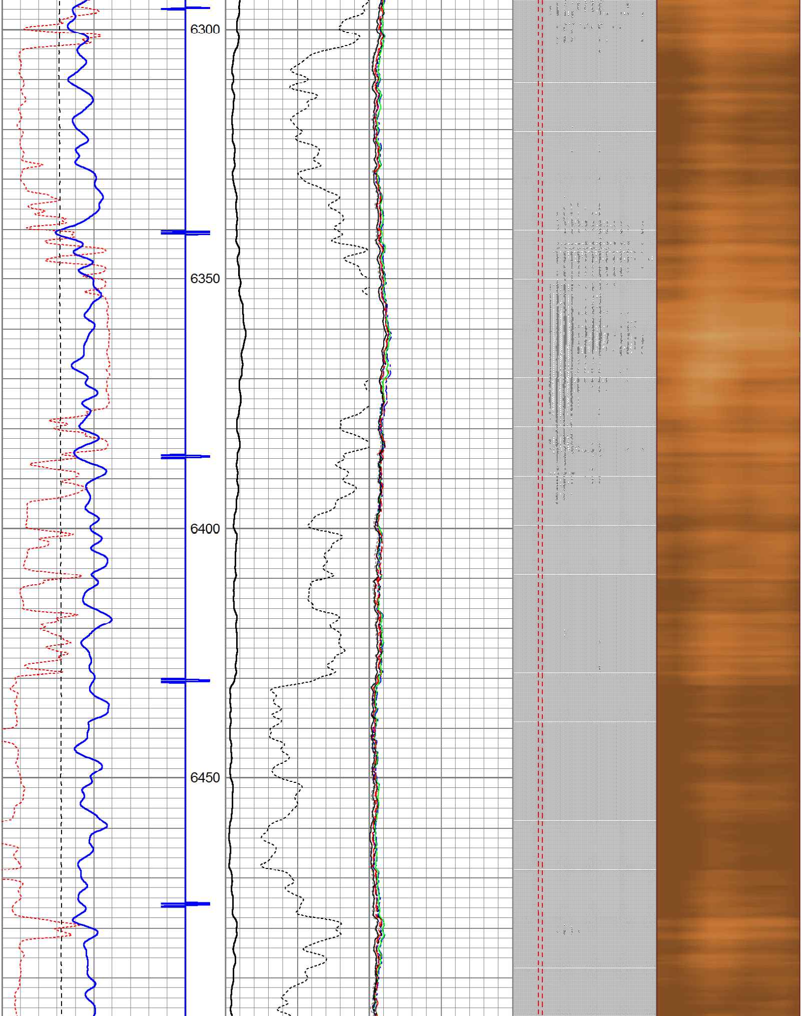


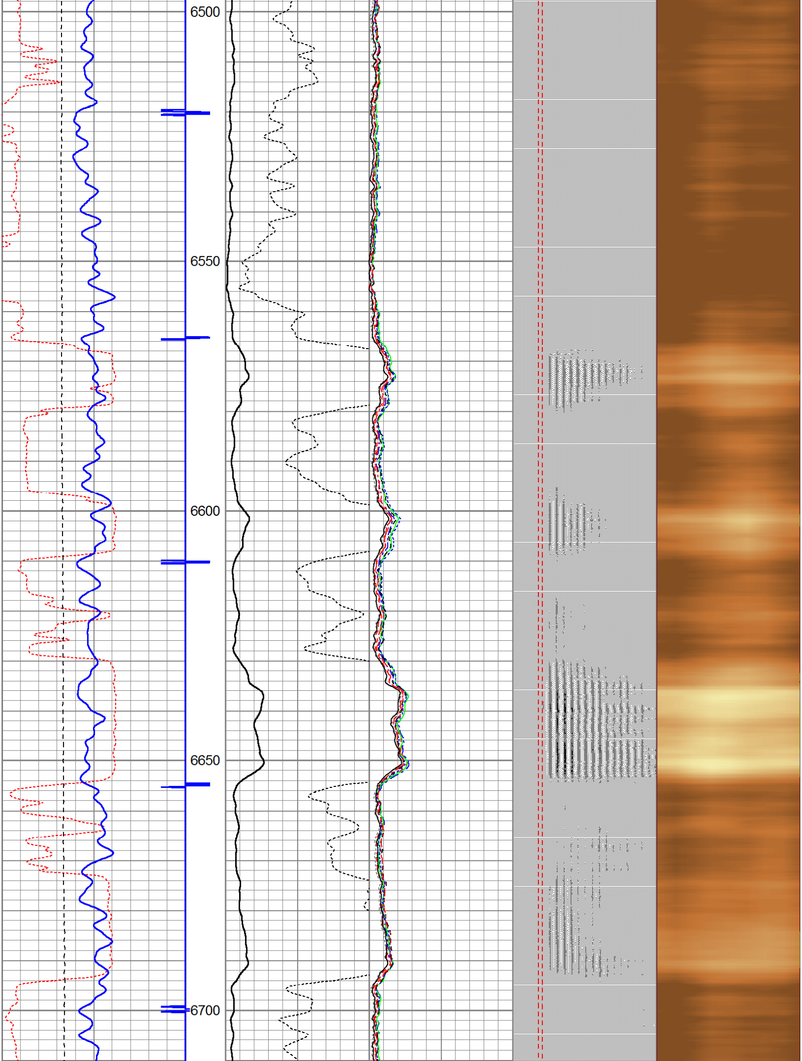


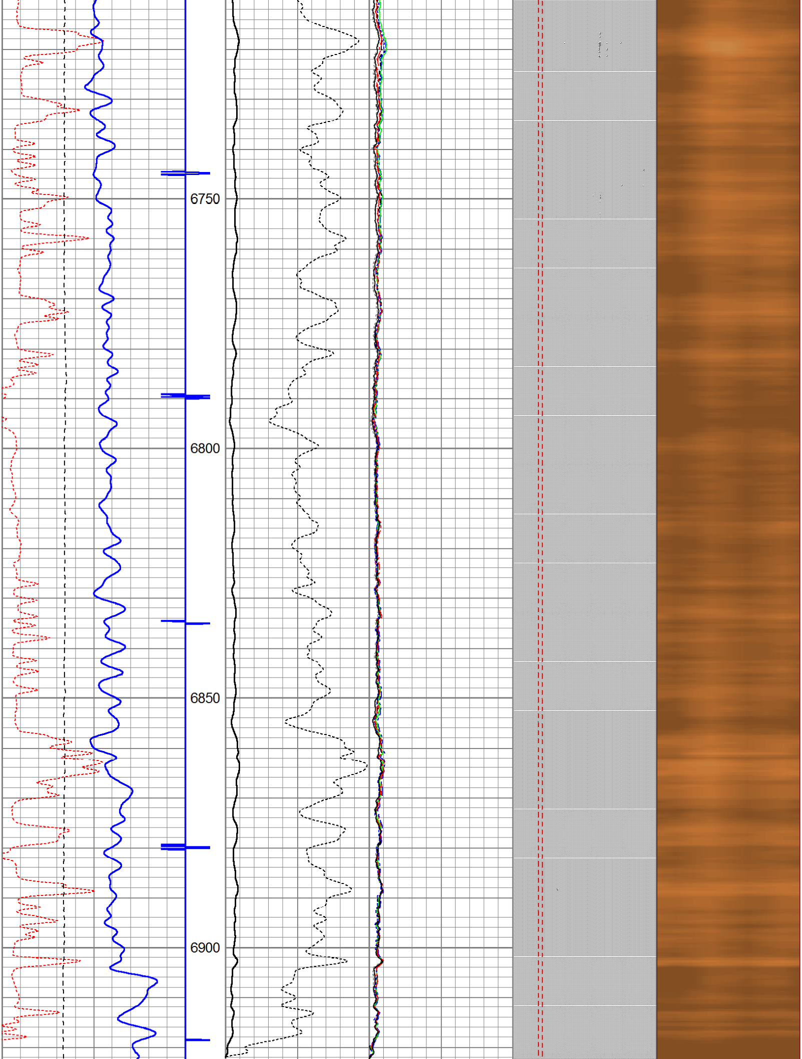


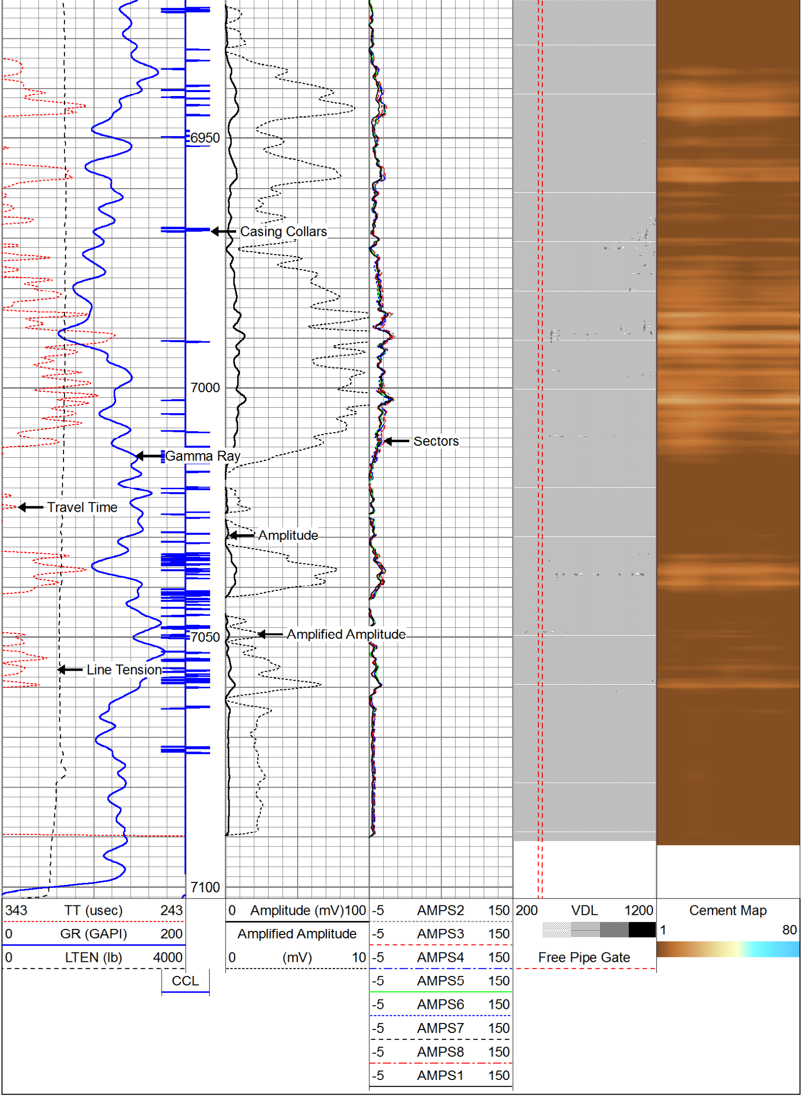












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Repeat Pass 5" = 100' (0 psi)

Database File: c:\warrior\data\synergy_vista_d_2n_a_rbl\synergy_vista_d_2n_a_rbl.db
Dataset Pathname: pass11
Presentation Format: rbl55
Dataset Creation: Tue Mar 29 13:10:35 2016 by Log SCH 110630
Charted by: Depth in Feet scaled 1:240

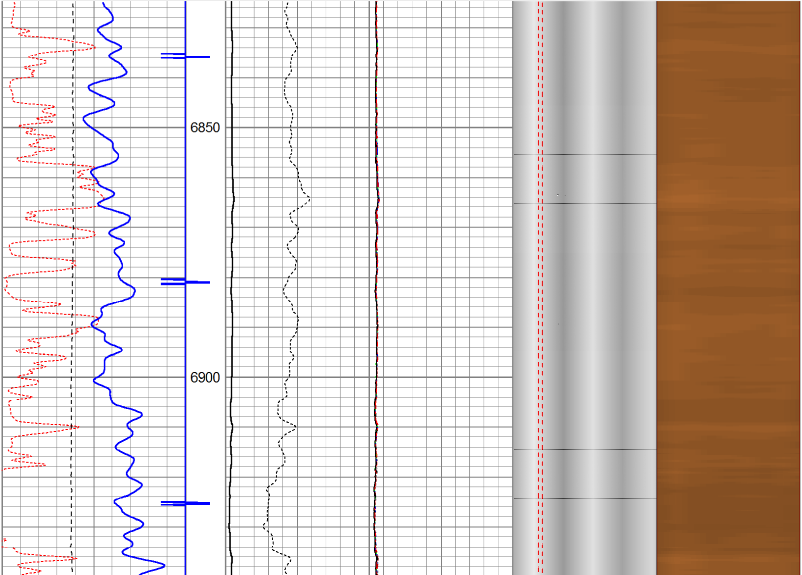
343 TT (usec) 243
0 GR (GAPI) 200
0 LTEN (lb) 4000
CCL

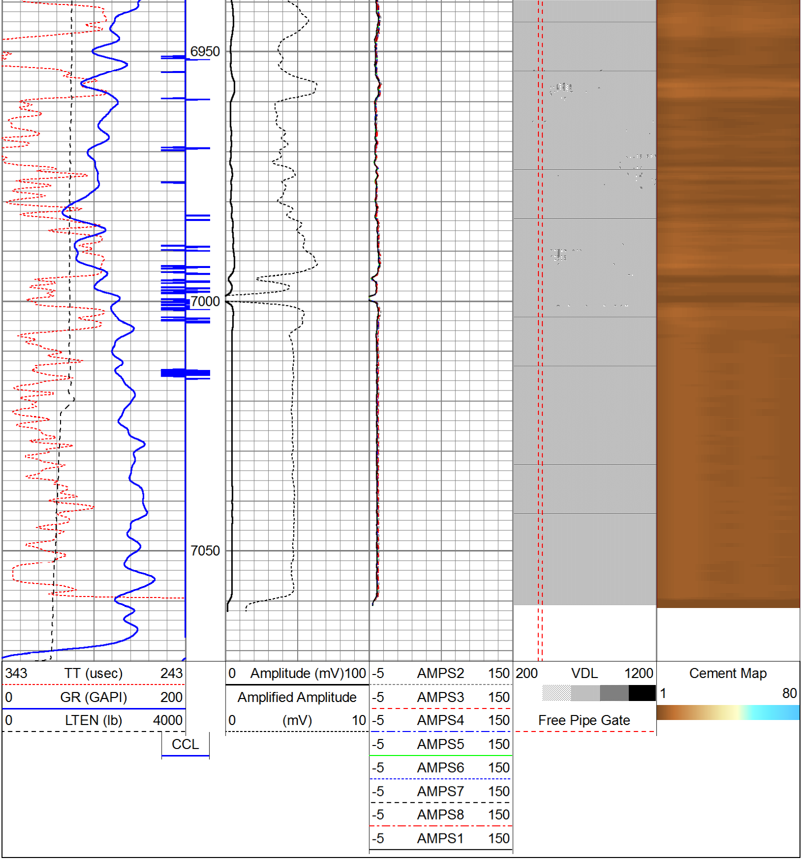
0 Amplitude (mV) 100
Amplified Amplitude
0 (mV) 10

-5 AMPS2 150
-5 AMPS3 150
-5 AMPS4 150
-5 AMPS5 150
-5 AMPS6 150
-5 AMPS7 150
-5 AMPS8 150
-5 AMPS1 150

200 VDL 1200
Free Pipe Gate

Cement Map
1 80





Log Variables

Database:C:\Warrior\Data\synergy_vista_d_2n_a_rbl\synergy_vista_d_2n_a_rbl.db
Dataset: field/well/run1/pass11.1

Top - Bottom

PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft
0	17	71.921	1	0.8	5.5	0	0

BOTTEMP degF	BOREID in
100	7.875

Calibration Report

Database File:	C:\Warrior\Data\synergy_vista_d_2n_a_rbl\synergy_vista_d_2n_a_rbl.db
Dataset Pathname:	pass13
Dataset Creation:	Tue Mar 29 13:17:55 2016 by Log SCH 110630

Temperature Calibration Report

Serial Number:	060110	
Tool Model:	1.375TEMP	
Performed:	Sun Jun 03 16:49:35 2012	
	Reference	Reading
Low Reference:	1.00 degF	10.00 cps
High Reference:	100.00 degF	1000.00cps
Gain:	0.10	
Offset:	0.00	
Delta Spacing	1	

Gamma Ray Calibration Report

Serial Number:	060109	
Tool Model:	Probe	
Performed:	Tue Mar 29 08:57:34 2016	
Calibrator Value:	185.2	GAPI
Background Reading:	4.8	cps
Calibrator Reading:	200.0	cps
Sensitivity:	0.8500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	060113_45	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	6264.608	ft

Master Calibration, performed Tue Mar 29 08:56:41 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	0.816	2.000	71.921	86.389	1.444
CAL	0.007	0.843				
5'	0.007	0.718	2.000	71.921	98.323	1.352

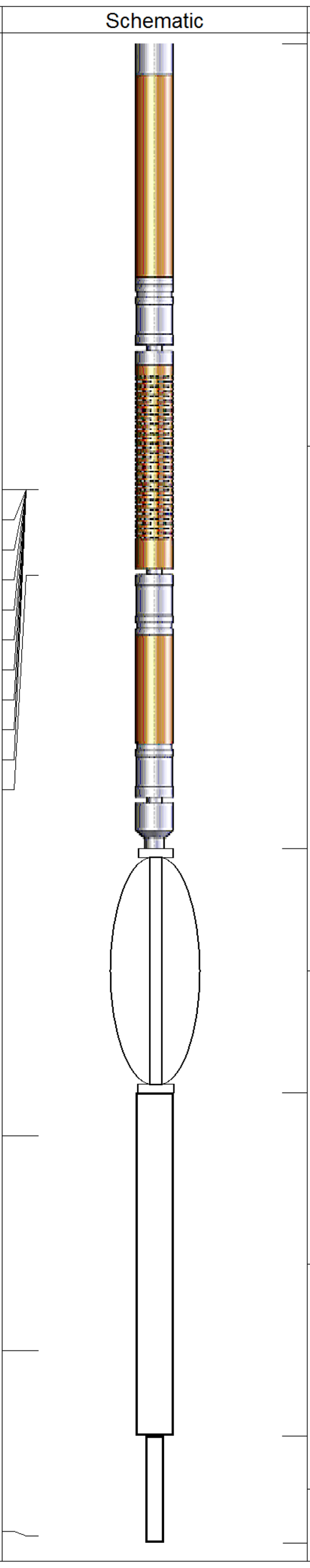
SUM						
S1	0.006	0.769	0.000	100.000	130.980	-0.785
S2	0.006	0.752	0.000	100.000	134.102	-0.856
S3	0.006	0.739	0.000	100.000	136.454	-0.840
S4	0.006	0.775	0.000	100.000	130.036	-0.806
S5	0.006	0.842	0.000	100.000	119.579	-0.736
S6	0.006	0.858	0.000	100.000	117.453	-0.736
S7	0.006	0.855	0.000	100.000	117.857	-0.748
S8	0.006	0.848	0.000	100.000	118.871	-0.772

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.843	1.000	0.000

Air Zero Calibration, performed Tue Mar 29 08:51:45 2016:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			RBT-Probe (060113_45) Probe 2.75" Radii Bond Tool	9.39	2.75	90.00
WVF3FT	12.30					
WVFCAL	12.30					
WVFS1	12.30					
WVFS2	12.30					
WVFS3	12.30					
WVFS4	12.30					
WVFS5	12.30					
WVFS6	12.30					
WVFS7	12.30					
WVFS8	12.30					
WVF5FT	11.30					
			Probe	2.86	2.75	40.00
CCL	4.75					
			GR-Probe (060109) Probe 2.75" 4 Channel Pulse	4.00	2.75	30.00
GR	2.25					
			TEMP-1.375TEMP (060110) Temperature Tool	1.25	1.38	30.00
TEMP	0.08					

Dataset:	synergy_vista_d_2n_a_rbl.db: field/well/run1/pass13
Total Length:	17.50 ft
Total Weight:	190.00 lb
O.D.	2.75 in

Company	Synergy Resources Corporation		
Well	Vista D-2N-A		
Field	Wattenberg		
County	Weld	State	Colorado

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Radial Cement Bond
Gamma Ray CCL
Log