Company	NOBLE ENERGY INC.
Well	CANNON H 35-22
Field	WATTENBERG
County	WELD
State	COLORADO

Casedhole Solutions

GAMMA RAY CCL SECTOR BOND

Company	NOBLE ENERGY INC.		
Well	CANNON H 35-22		
Field	WATTENBERG		
County	WELD	State	COLORADO

Location: API #: 0512331866

2492' FSL & 1320' FEL
NW/SE

SEC 35 TWP 3N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4839
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4852
D.F. 4851
G.L. 4839

Date	JANUARY 9, 2018
Run Number	ONE
Depth Driller	7766
Depth Logger	2445
Bottom Logged Interval	2445
Top Log Interval	SURFACE
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	
Time Well Ready	RANGER RIG
Time Logger on Bottom	8:00
Equipment Number	922338
Location	FORT LUPTON
Recorded By	GREG NOLAN
Witnessed By	CARL SWIFT

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8	24#	SURFACE	772
Prot. String				
Production String	4-1/2	11.6#	SURFACE	7801
Liner				

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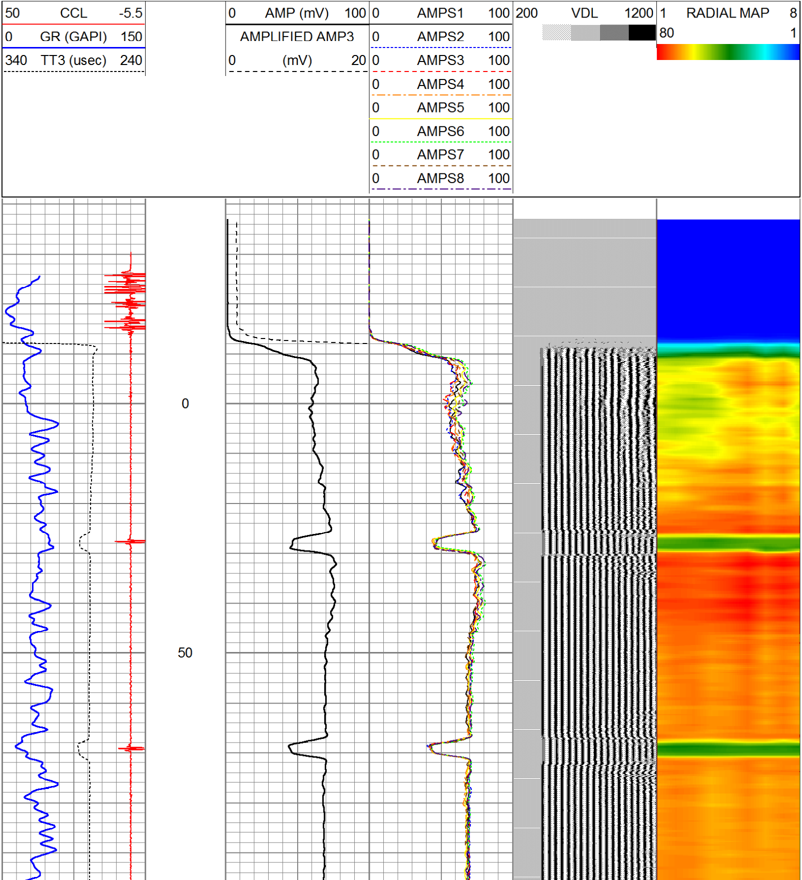
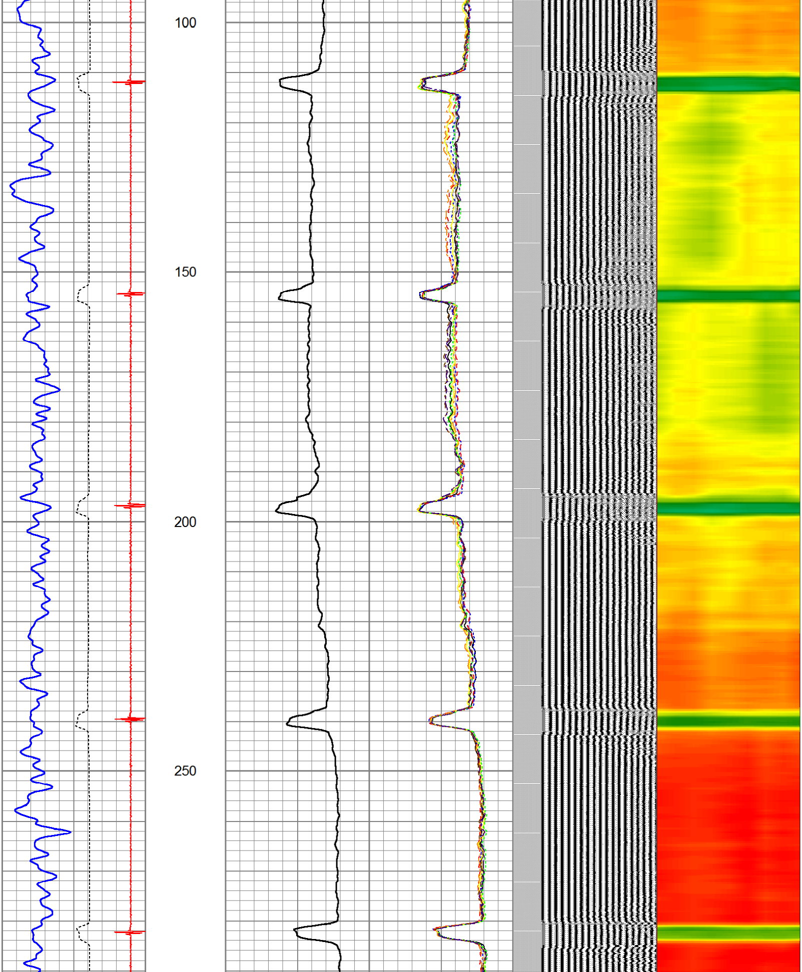
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

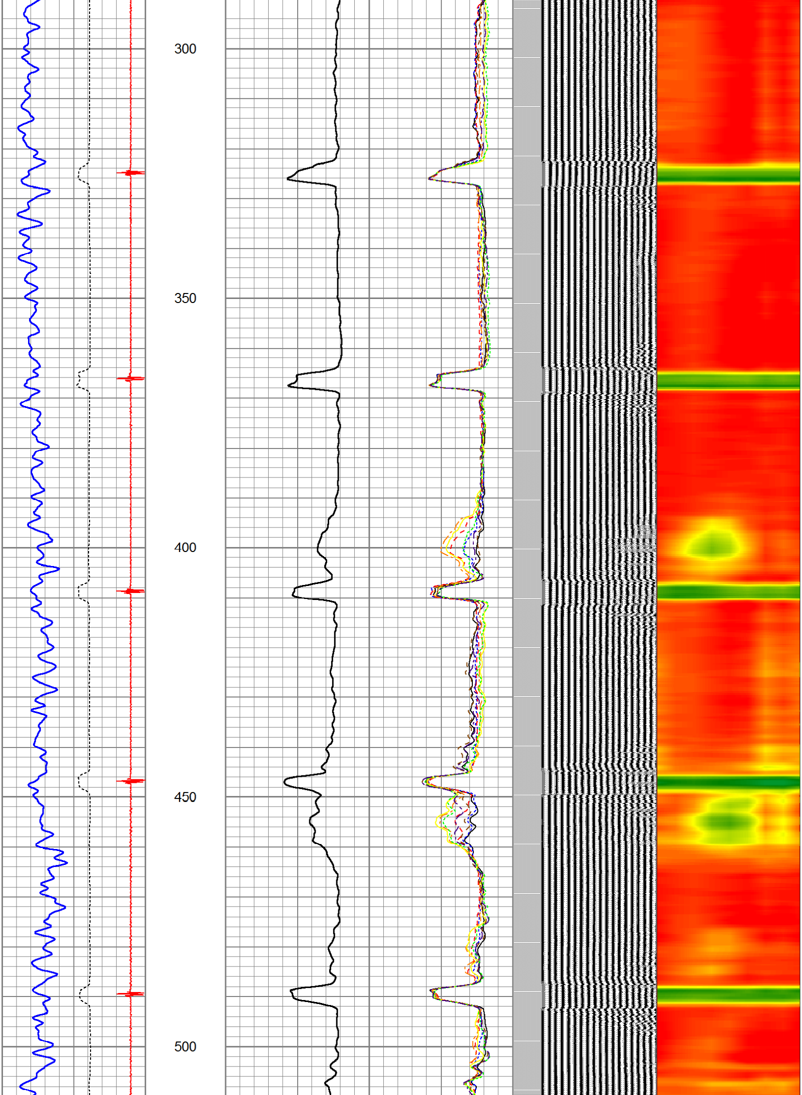
Comments

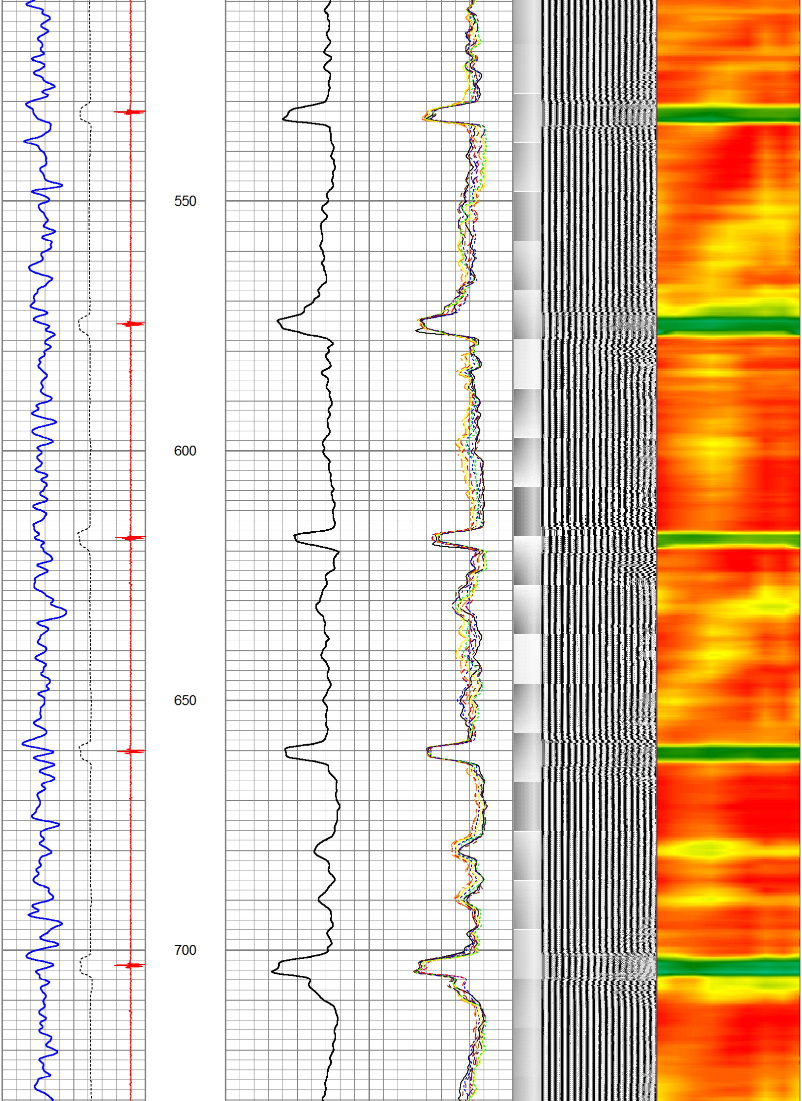
THANK YOU FOR CHOOSING CHS!!!!!
LOG CORRELATED TO SUPERIOR WELL SERVICES GAMMA RAY CCL
CEMENT BOND VDL LOG DATED 08.16.2011

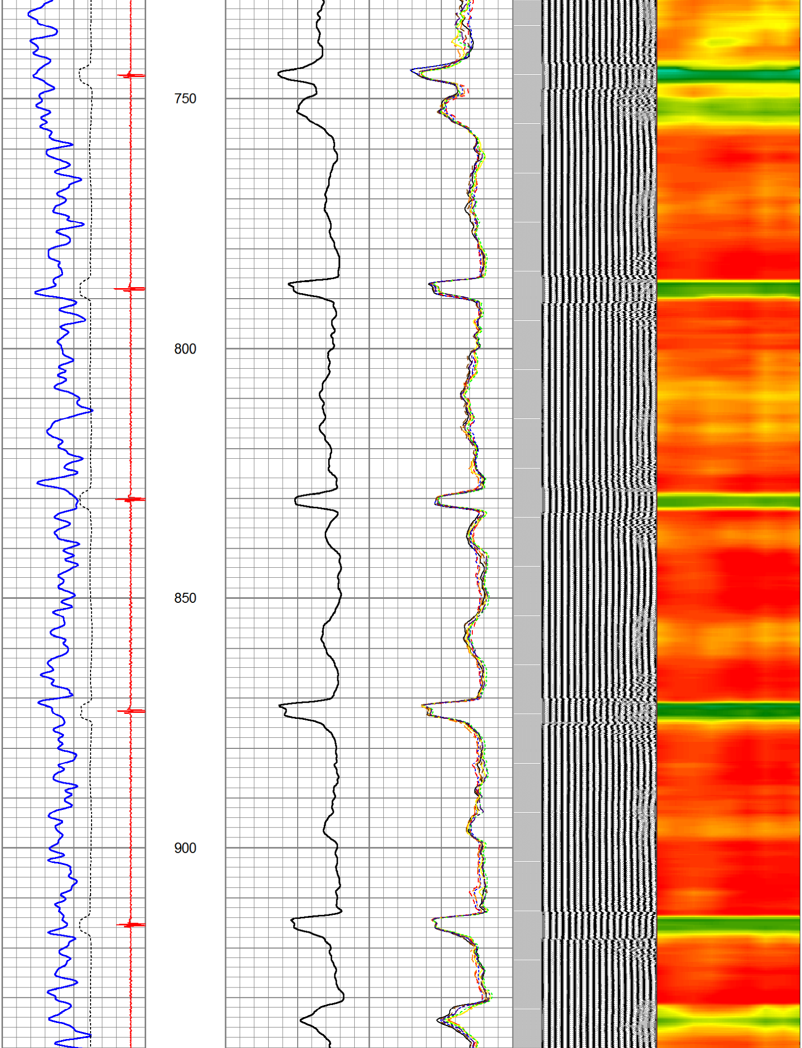
Database File: cbl noble cannon h35-22.db
Dataset Pathname: pass3
Presentation Format: zwag
Dataset Creation: Tue Jan 09 08:12:04 2018 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

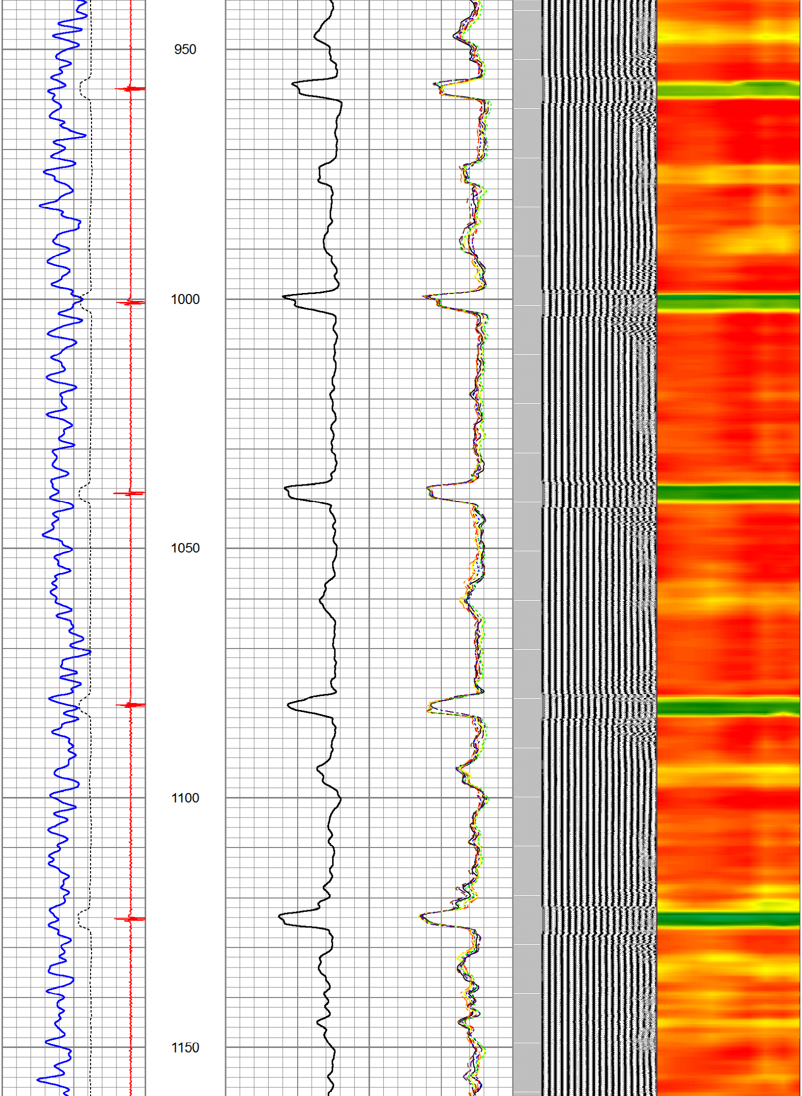


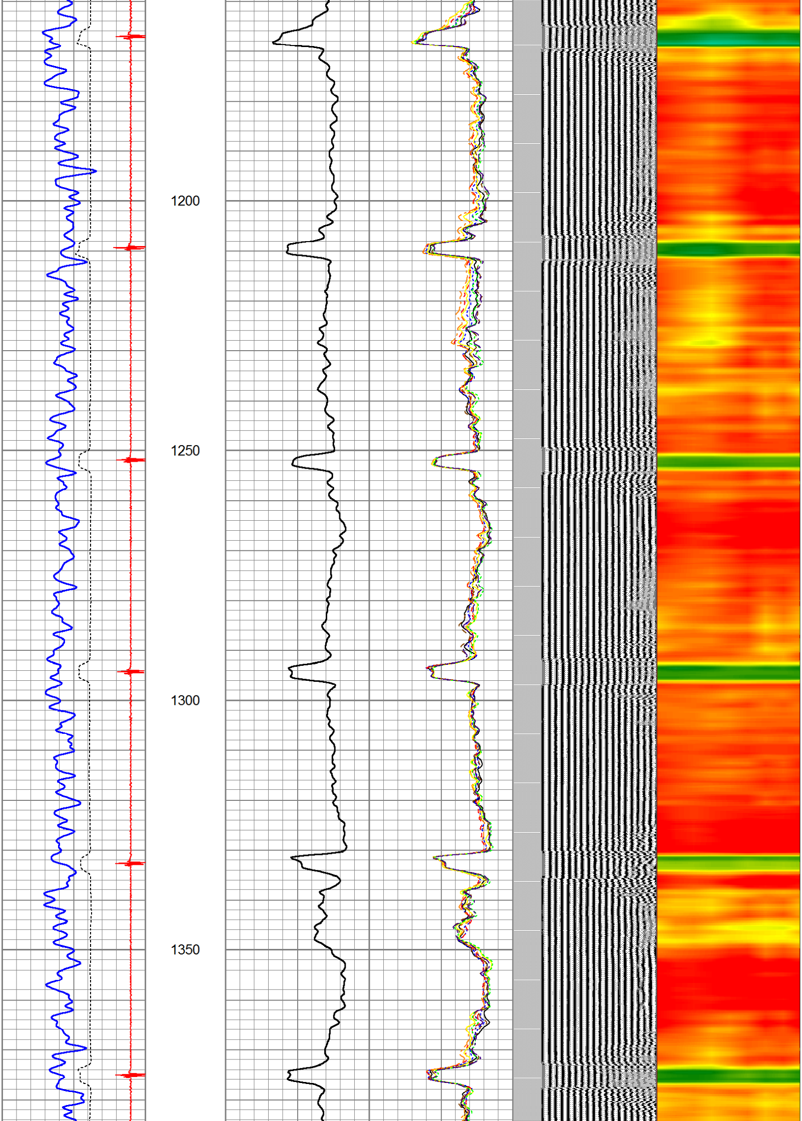


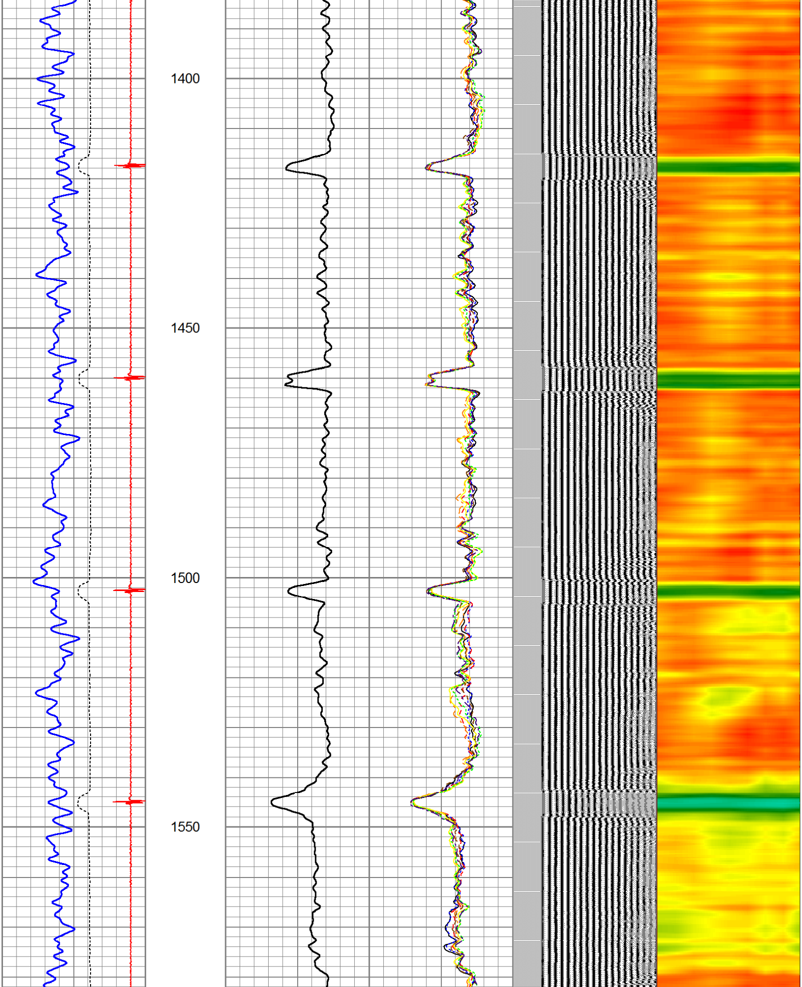


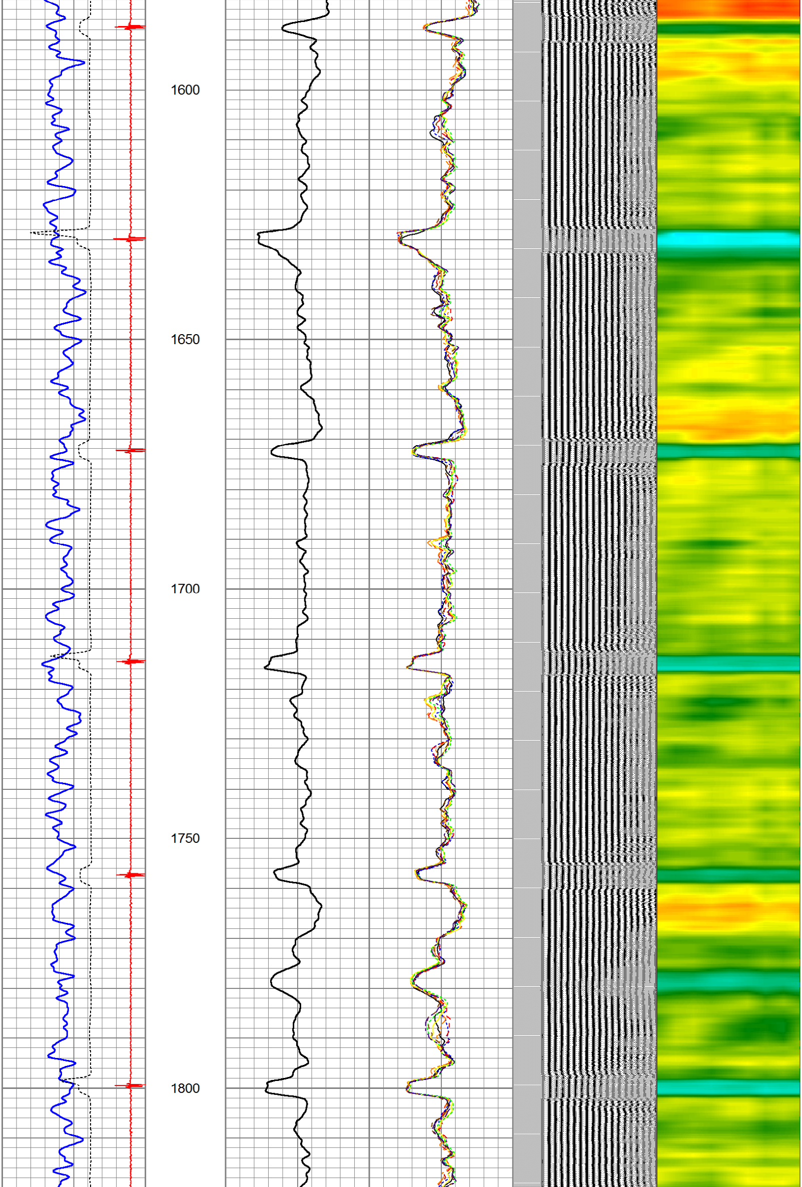


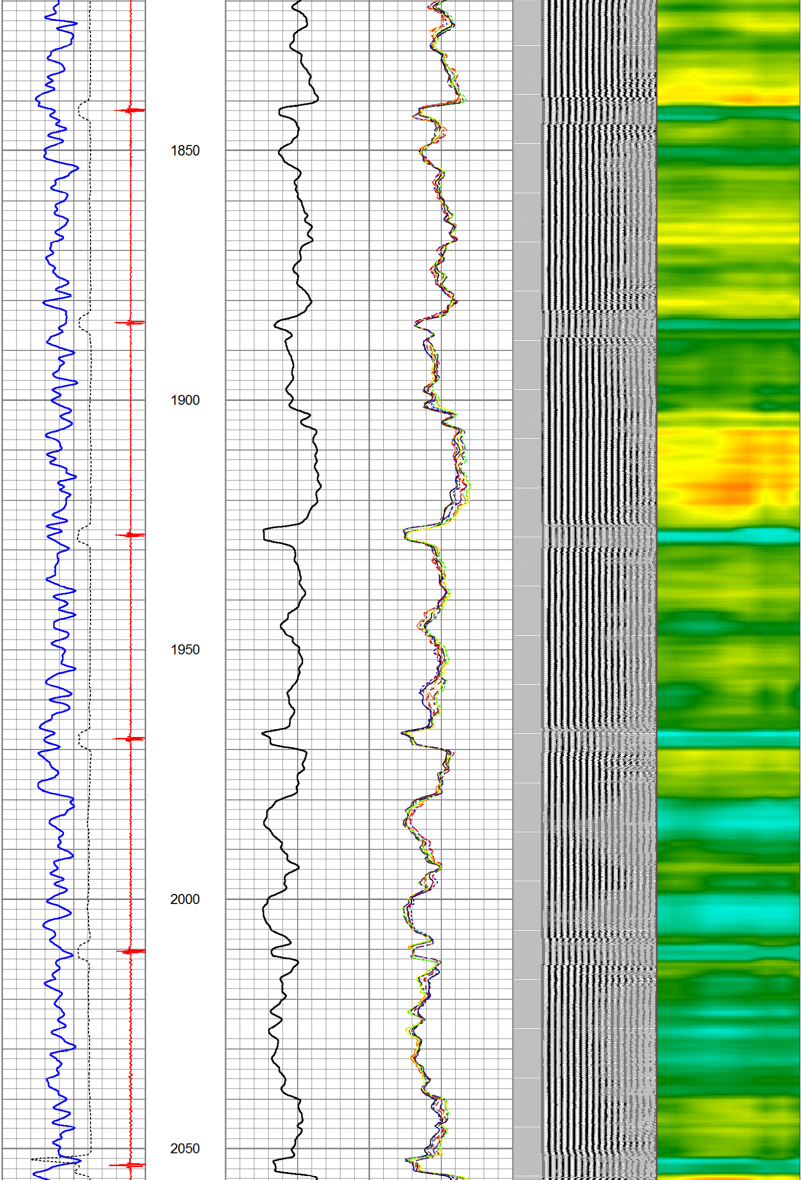


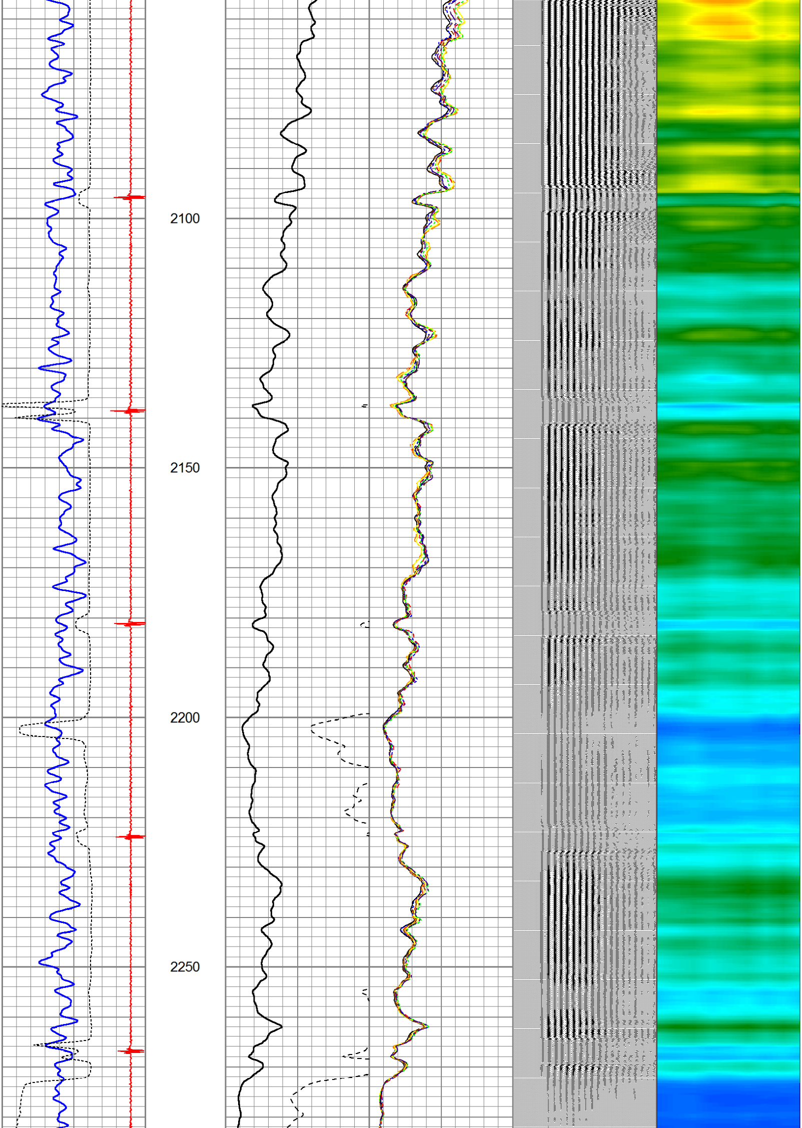


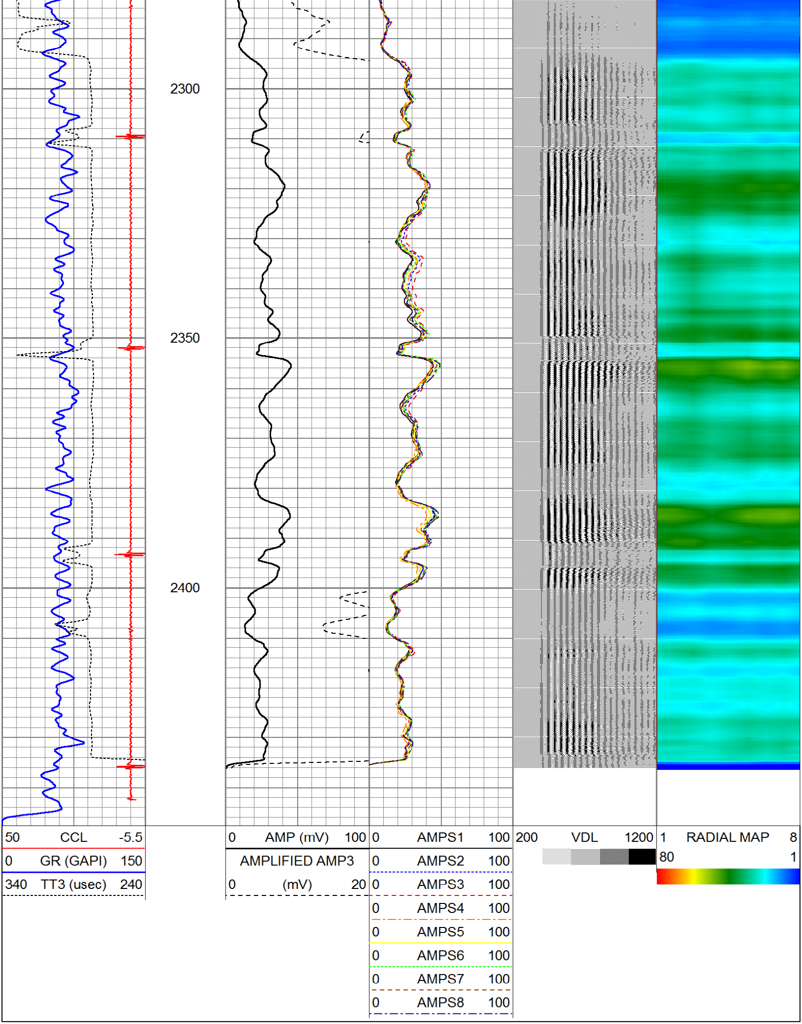












Calibration Report

Database File:	cbl noble cannon h35-22.db
Dataset Pathname:	pass3
Dataset Creation:	Tue Jan 09 08:12:04 2018 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION

Thu Oct 26 10:51:22 2017

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.5500			GAPI/cps

PRIMARY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number:	101020	
Tool Model:	Probe	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	791.175	ft

Master Calibration, performed Tue Jan 09 08:04:46 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	1.001	1.500	81.196	80.187	0.913
CAL	0.007	0.154				
5'	0.007	0.944	1.500	81.196	85.069	0.894
SUM						
S1	0.007	1.016	0.000	81.196	80.524	-0.590
S2	0.007	1.060	0.000	81.196	77.156	-0.573
S3	0.007	1.049	0.000	81.196	77.947	-0.574
S4	0.007	1.001	0.000	81.196	81.702	-0.600
S5	0.007	0.948	0.000	81.196	86.306	-0.623
S6	0.007	0.945	0.000	81.196	86.614	-0.636
S7	0.007	0.983	0.000	81.196	83.231	-0.609
S8	0.007	0.977	0.000	81.196	83.707	-0.620

Internal Reference Calibration, performed Fri Jan 13 14:30:16 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	0.154	1.000	0.000

Air Zero Calibration, performed Tue Jan 09 07:52:33 2018:

	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