C&J ENERGY SERVICES

GAMMA RAY - C.C.L.
SECTOR CEMENT BOND-V.D.L.

Company	ANADARKO PRODUCTION CO.
Well	HUNZKER #9-28A
Field	WATTENBERG
County	WELD
State	COLORADO

Company ANADARKO PRODUCTION CO.

Well HUNZKER #9-28A

Field WATTENBERG

County WELD **State** COLORADO

Location: API # :

NE/SE

SEC 28 TWP 2N RGE 67W

Other Services

Permanent Datum	G.L.	Elevation	5030
Log Measured From	K.B.		
Drilling Measured From	K.B.		

Elevation
K.B. 5046
D.F.
G.L. 5030

Date	DEC-18-2019		
Run Number	ONE		
Depth Driller	8277		
Depth Logger	1600		
Bottom Logged Interval	1600		
Top Log Interval	-0-		
Casing Size			
Type Fluid	4 1/2		
Max. Recorded Temp.			
Estimated Cement Top			
Time Well Ready			
Time Logger On Bottom			
Unit Number	200128		
Tool Size / ID Number	2.75 PROBE		
Location	FT.LUPTON		
Recorded By	R.GARDNER		
Witnessed By	BRANDON TRACY		

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	4 1/2			
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

Calibration Report

Database File:	hunzker 9-28a.db
Dataset Pathname:	pass3
Dataset Creation:	Wed Dec 18 09:23:12 2019 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION

Thu Oct 17 07:40:29 2019

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.1000			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:	101024	
Tool Model:	Probe	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	551.492	ft

Master Calibration, performed Wed Dec 18 09:16:49 2019:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.923	0.800	81.196	41.823	0.786
CAL	0.000	0.005				
5'	0.000	2.032	0.800	81.196	39.577	0.789
SUM						
S1	0.001	2.044	0.000	81.196	39.725	-0.022
S2	0.000	1.909	0.000	81.196	42.533	-0.011
S3	0.001	1.919	0.000	81.196	42.318	-0.026
S4	0.000	1.947	0.000	81.196	41.700	-0.009
S5	0.000	1.996	0.000	81.196	40.682	-0.006
S6	0.001	2.000	0.000	81.196	40.612	-0.021
S7	0.000	1.966	0.000	81.196	41.311	-0.010
S8	0.001	1.942	0.000	81.196	41.819	-0.022

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	0.000	0.005	1.000	0.000

Air Zero Calibration, performed Fri Aug 02 12:48:57 2019:

	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

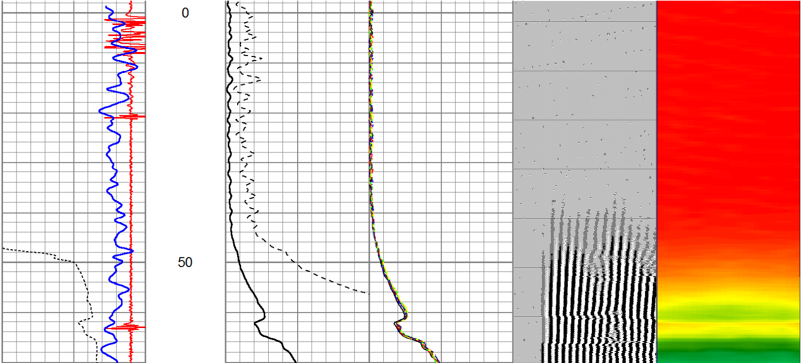
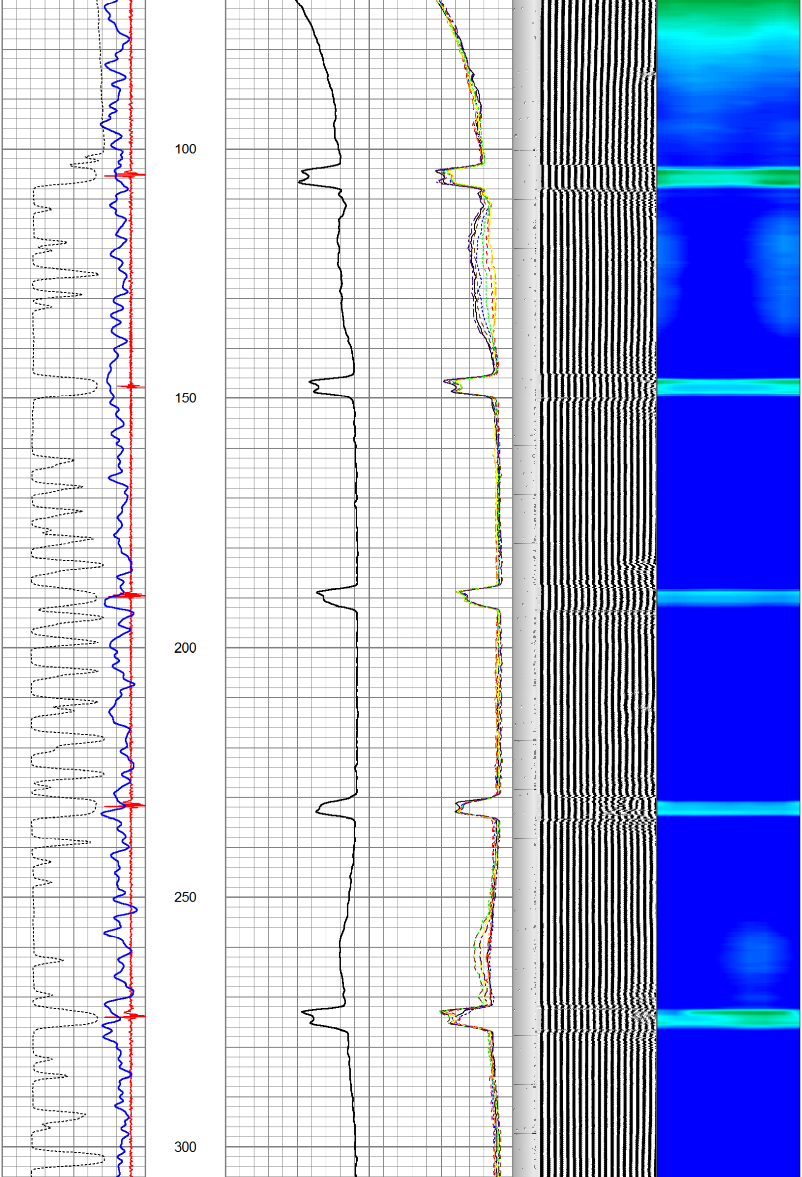
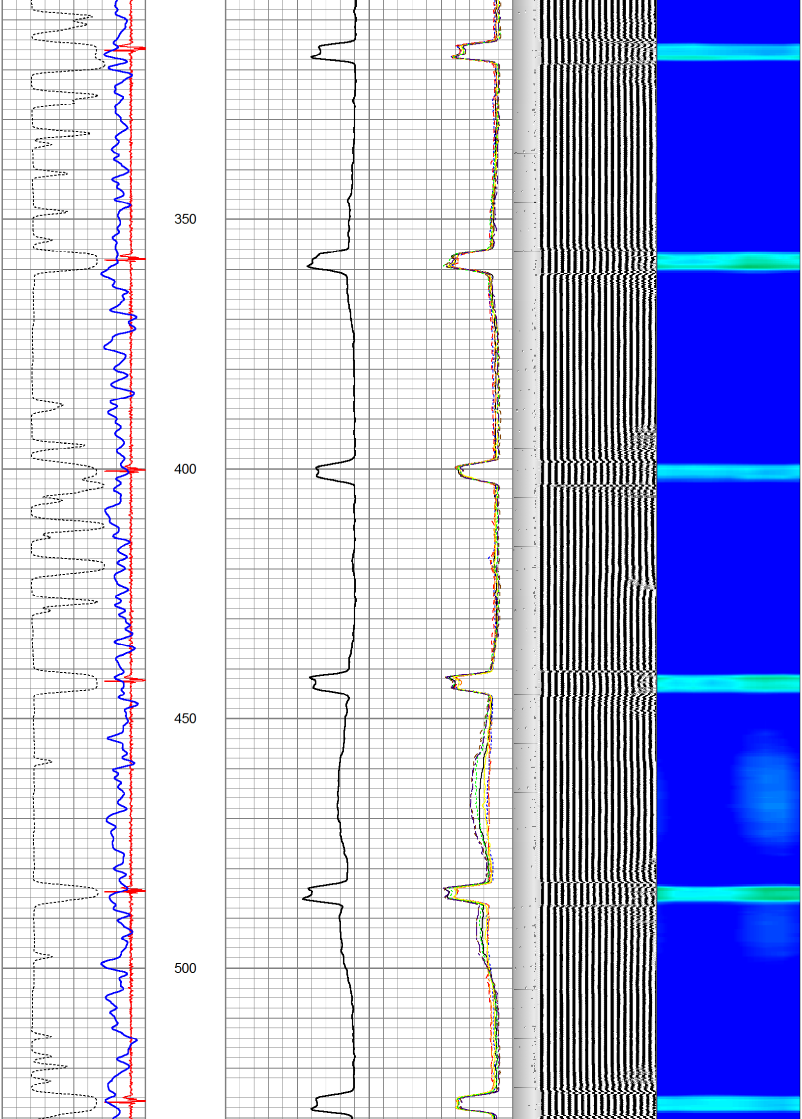
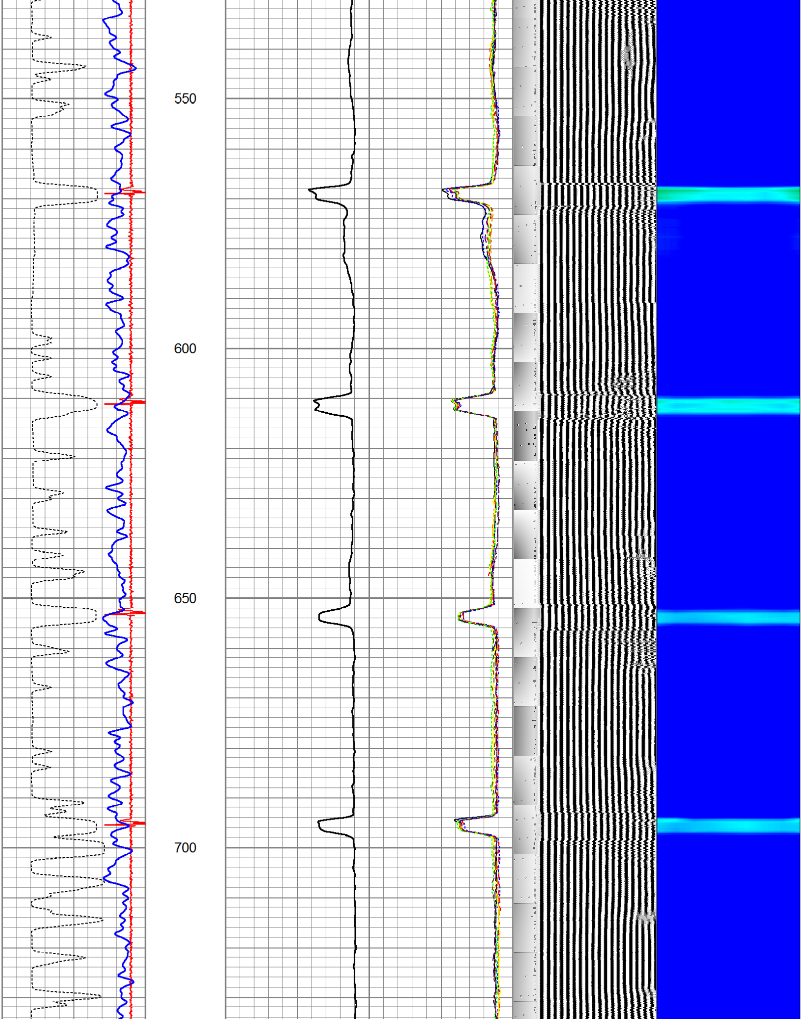
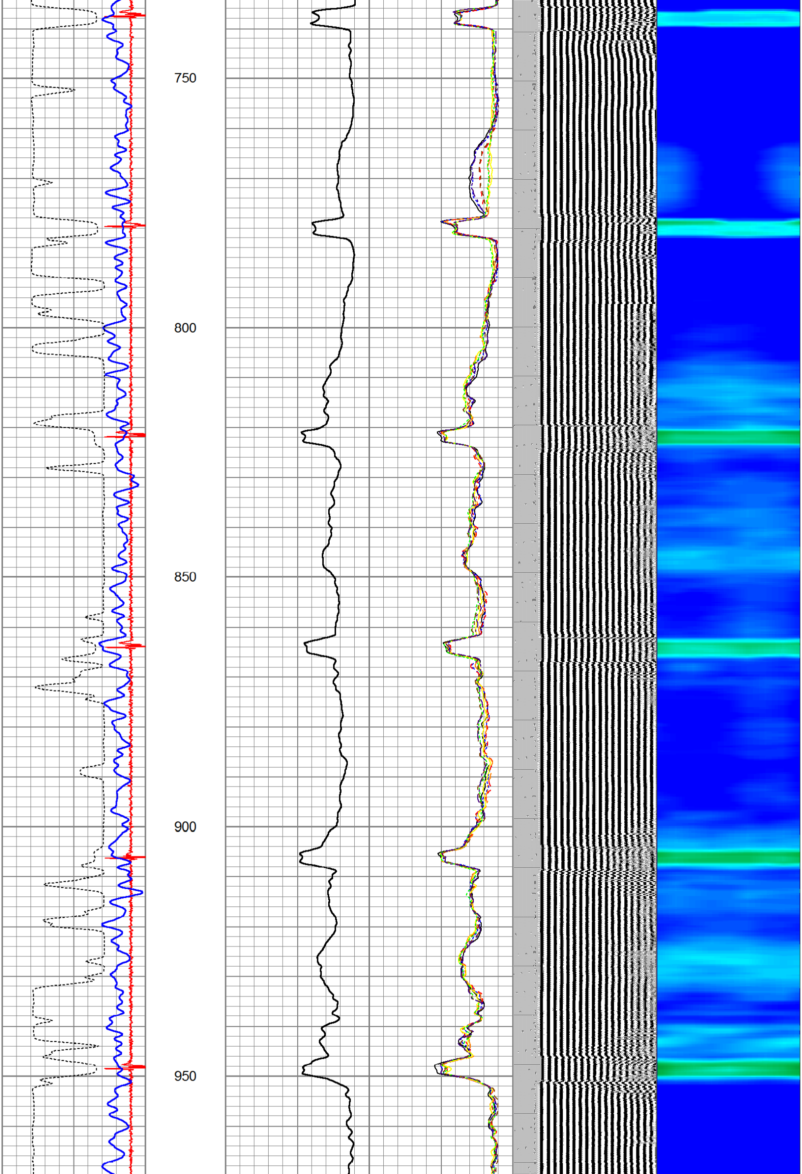
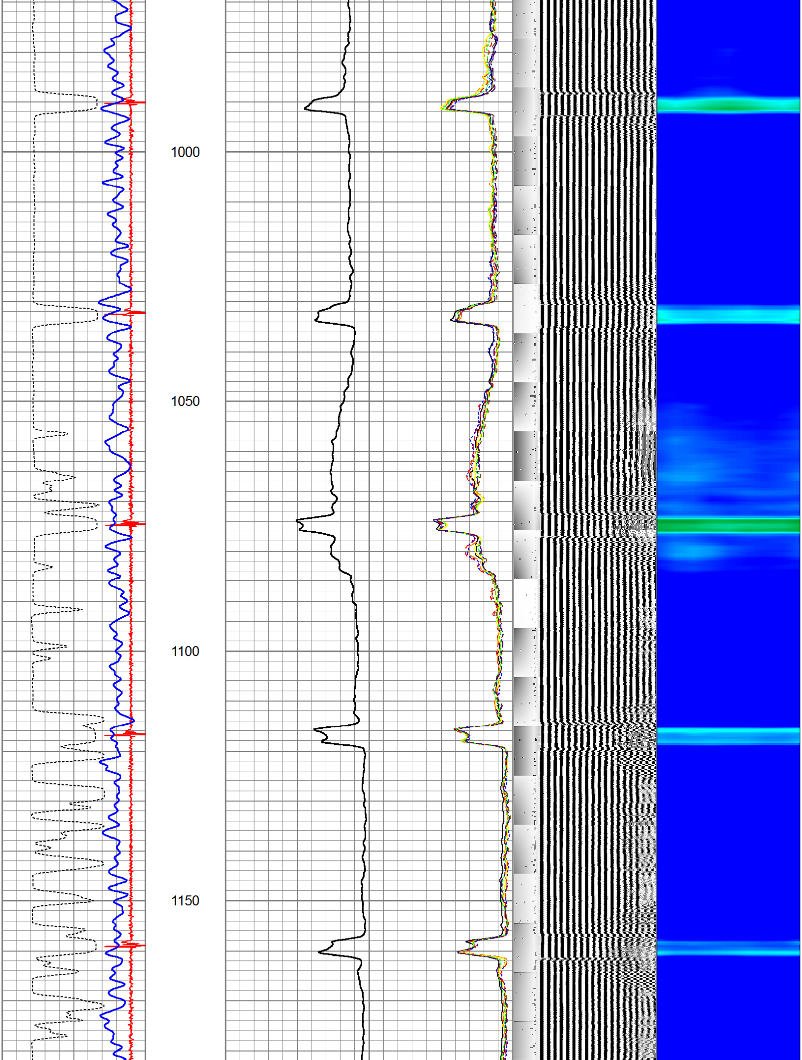
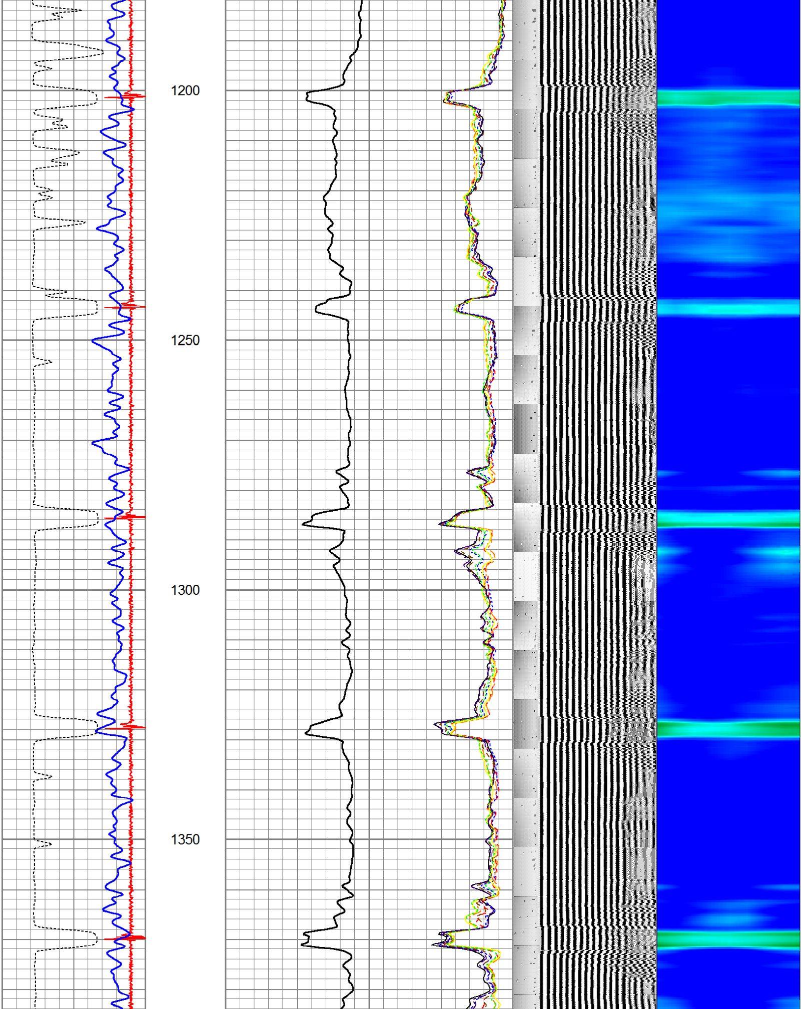
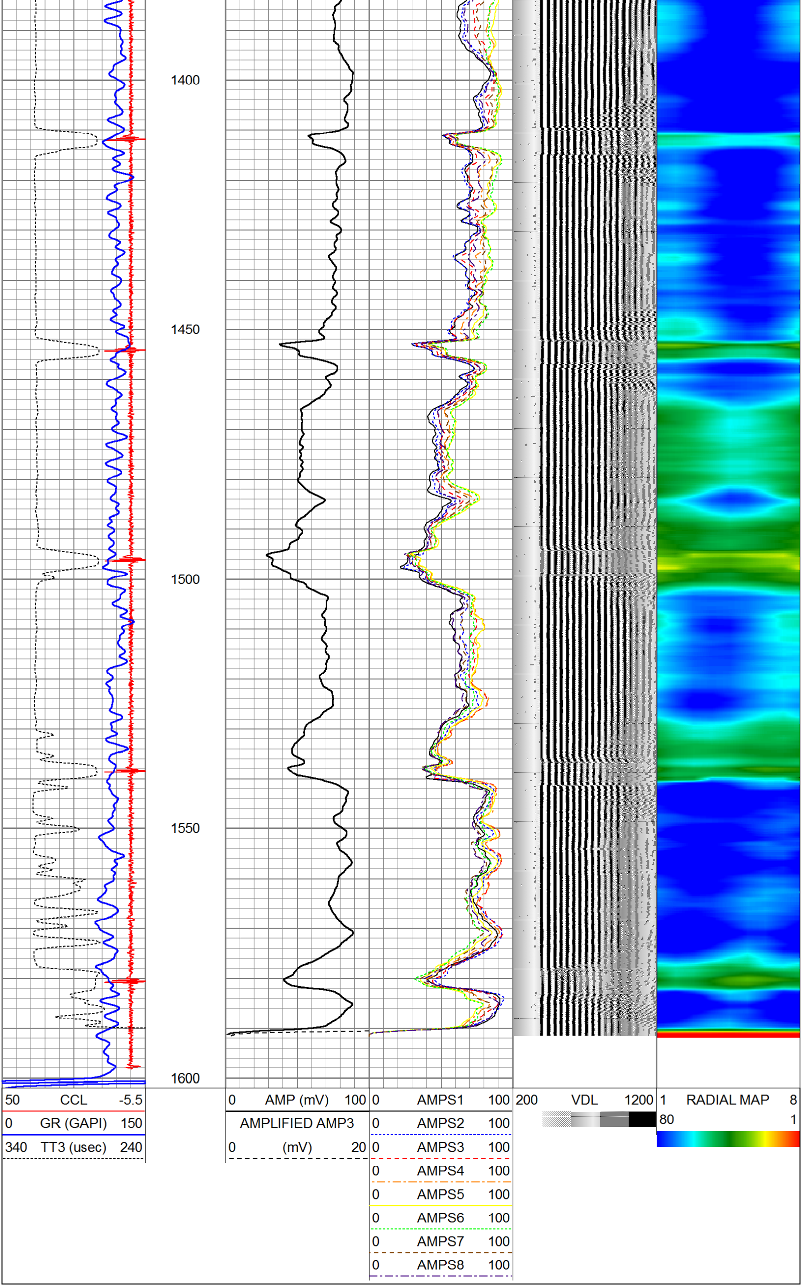
Database File:	hunzker 9-28a.db
Dataset Pathname:	pass3
Presentation Format:	zwag
Dataset Creation:	Wed Dec 18 09:23:12 2019 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

50 CCL -5.5
0 GR (GAPI) 150
340 TT3 (usec) 240

0 AMP (mV) 100
AMPLIFIED AMP3
0 (mV) 20

0 AMPS1 100
0 AMPS2 100
0 AMPS3 100
0 AMPS4 100
0 AMPS5 100
0 AMPS6 100
0 AMPS7 100
0 AMPS8 100

200 VDL 1200

1 RADIAL MAP 8
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