C&J ENERGY SERVICES

RADIAL CEMENT BOND GAMMA RAY CCL LOG

Company NOBLE ENERGY
Well CHAMPLIN366 AMOCO B1
Field WATTENBERG
County WELD
State COLORADO

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Well CHAMPLIN366 AMOCO B1
Field WATTENBERG
County WELD State COLORADO
Location: API #: 05-123-09578
SE/NE
SEC 19 TWP 3 RGE 63
Other Services

Permanent Datum	GROUND LEVEL	Elevation
Log Measured From	KELLY BUSHING	K.B.
Drilling Measured From		D.F.
		G.L.

Date	DECEMBER 2, 2019
Run Number	ONE
Depth Driller	7450'
Depth Logger	7100'
Bottom Logged Interval	7097'
Top Log Interval	SURFACE
Casing Size	N/A
Type Fluid	WATER
Max. Recorded Temp.	N/A
Estimated Cement Top	N/A
Time Well Ready	N/A
Time Logger On Bottom	N/A
Unit Number	200099
Tool Size / ID Number	2 3/4 RADIAL PROBE
Location	FORT LUPTON, CO
Recorded By	ADAM GARDNER
Witnessed By	CODY JONES

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	4.5"	10.5LB		
Production String				
Liner				

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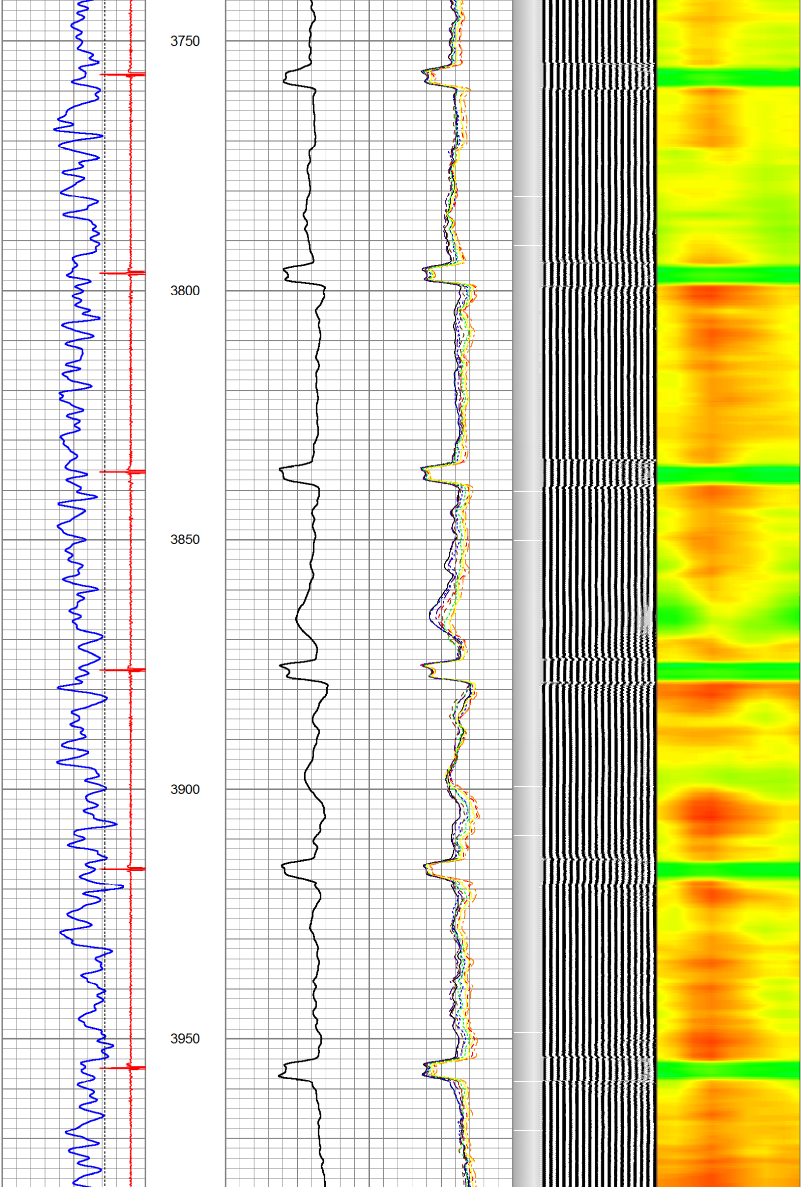
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

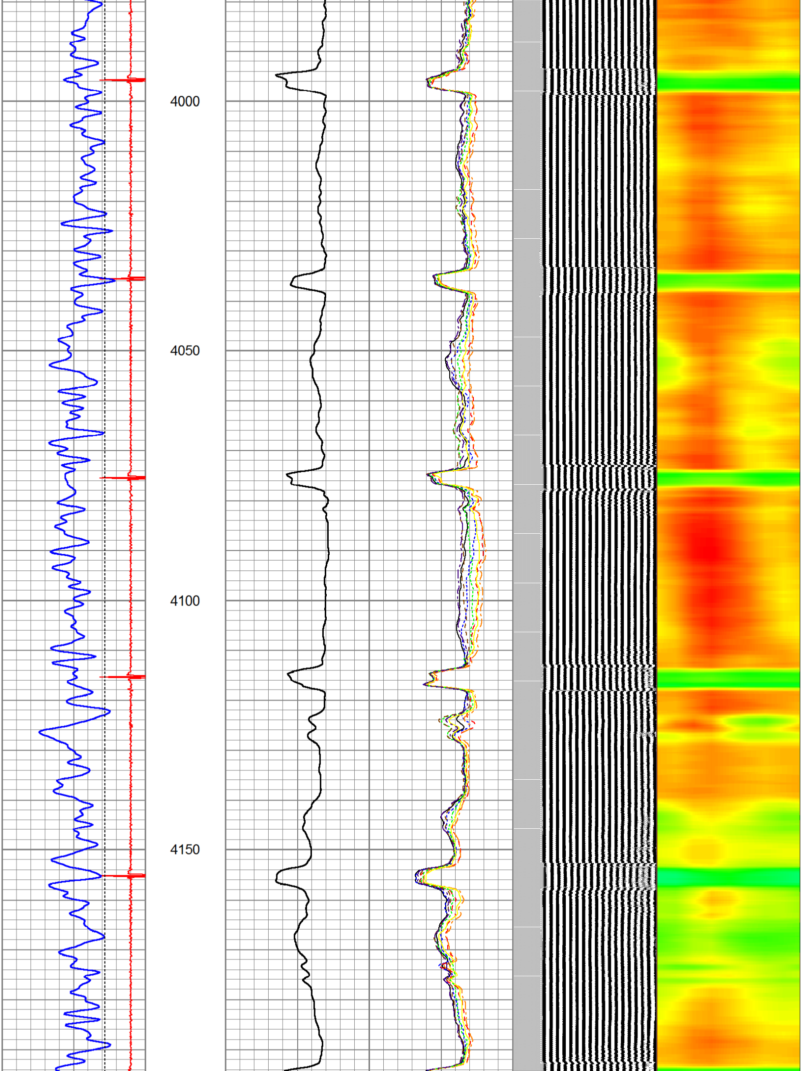
Comments

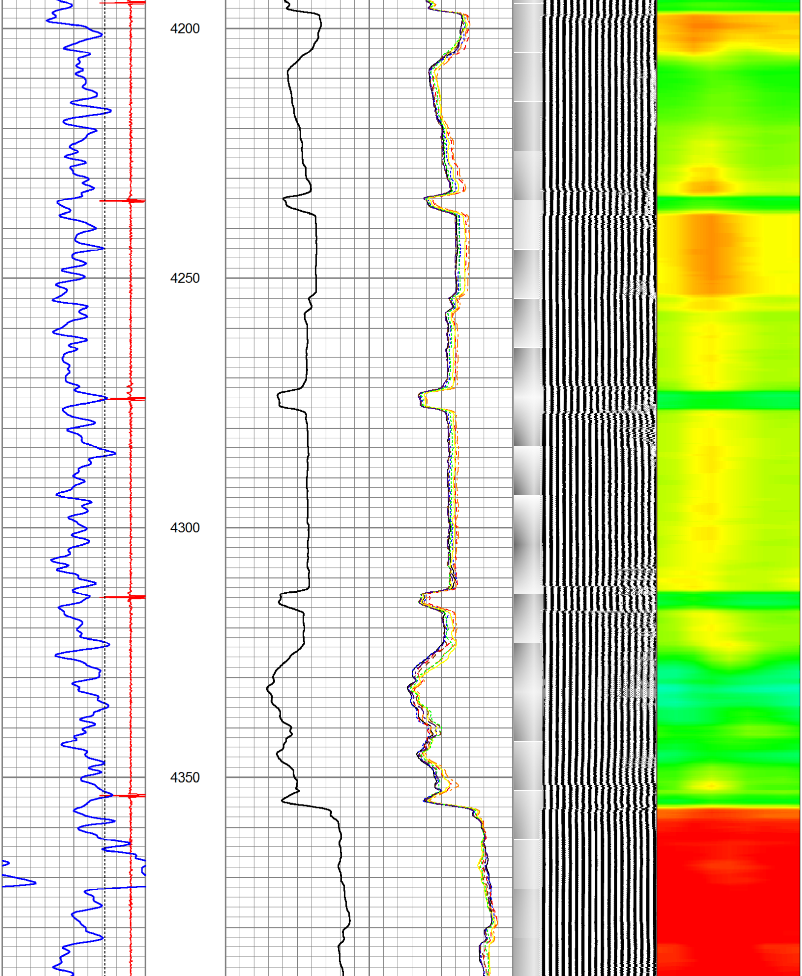
LOG NOT CORRELATED
THANK YOU FOR CHOOSING NEXTIER OILFIELD SOLUTIONS!!

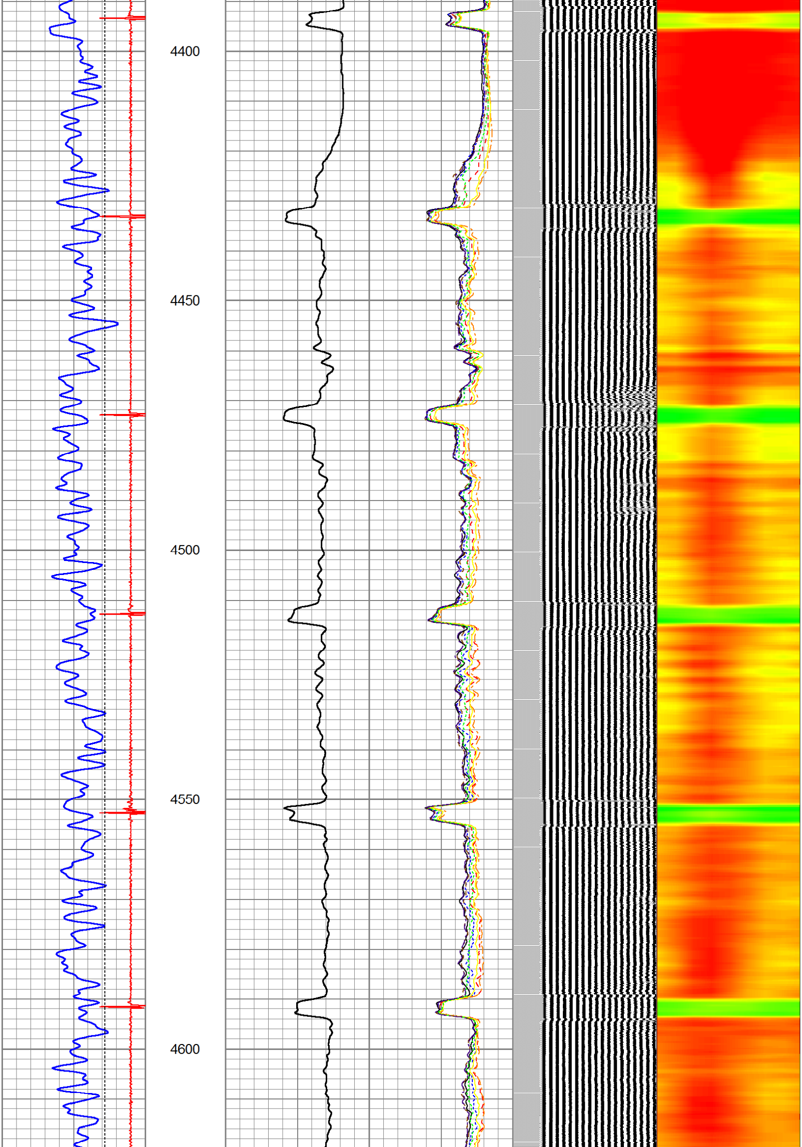
Database File:	champlin 366 amoco b 1 noble energy 12-2-19 ag.db
Dataset Pathname:	pass11
Presentation Format:	zwag
Dataset Creation:	Mon Dec 02 10:54:48 2019 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

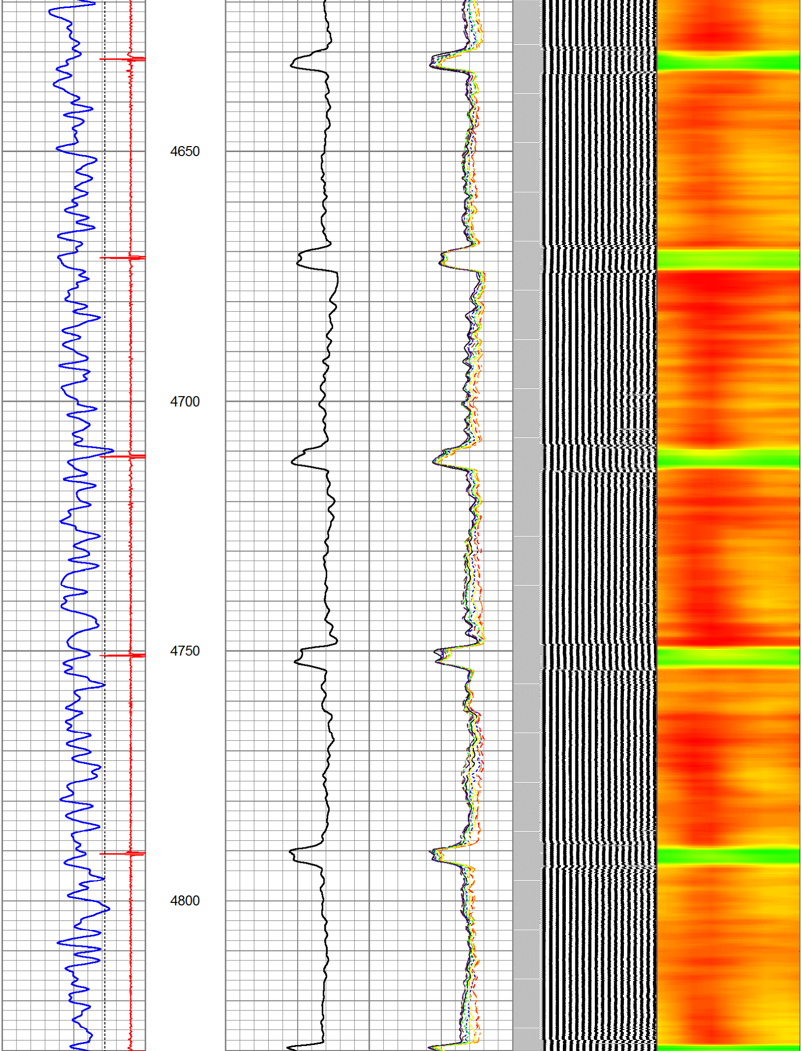
50 CCL -5.5 0 GR (GAPI) 150 340 TT3 (usec) 240	0 AMP (mV) 100 AMPLIFIED AMP3 0 (mV) 20	0 AMPS1 100 0 AMPS2 100 0 AMPS3 100 0 AMPS4 100 0 AMPS5 100 0 AMPS6 100 0 AMPS7 100 0 AMPS8 100	200 VDL 1200 1 RADIAL MAP 8 80 1

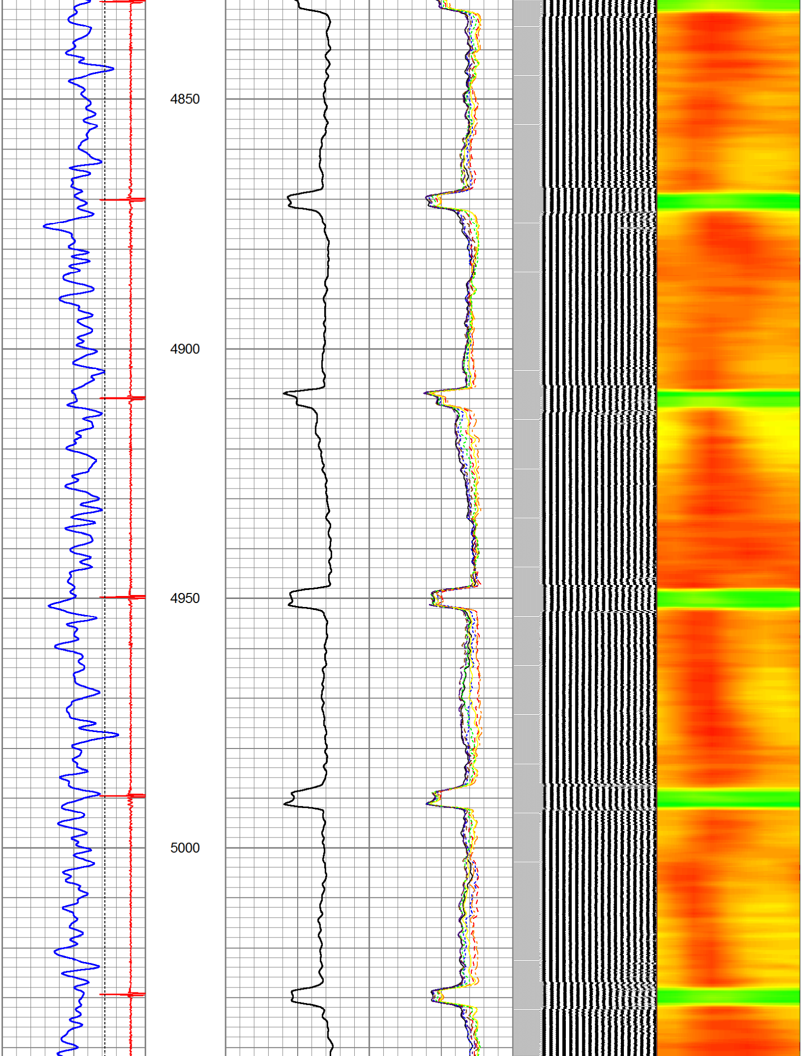


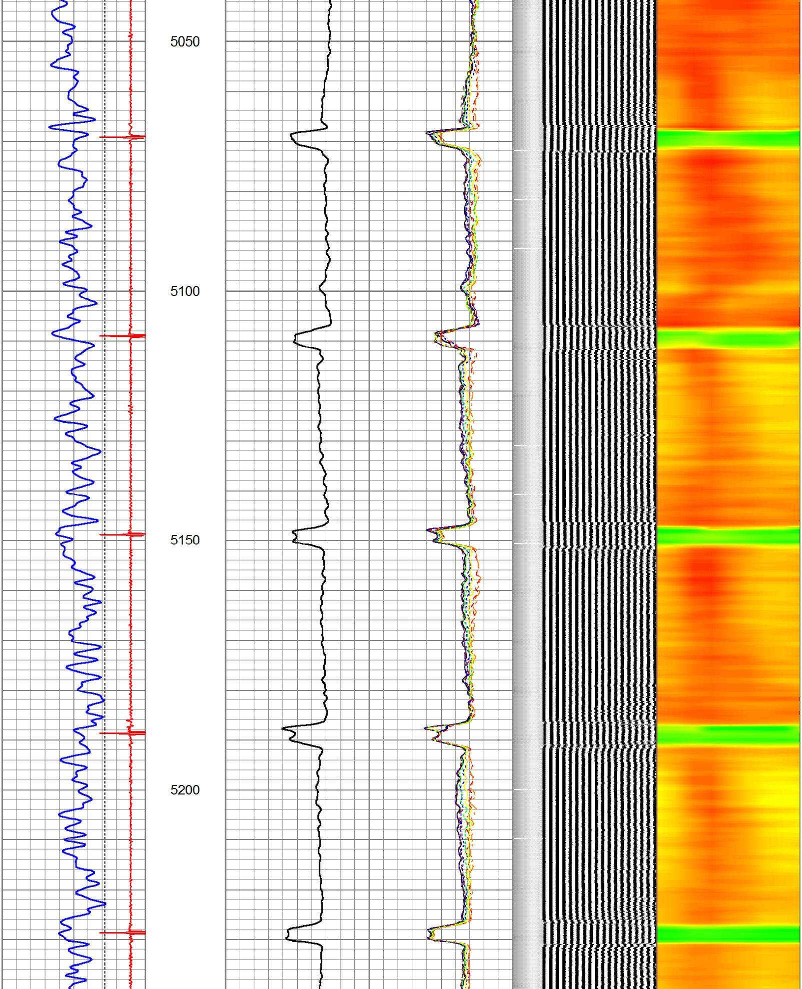


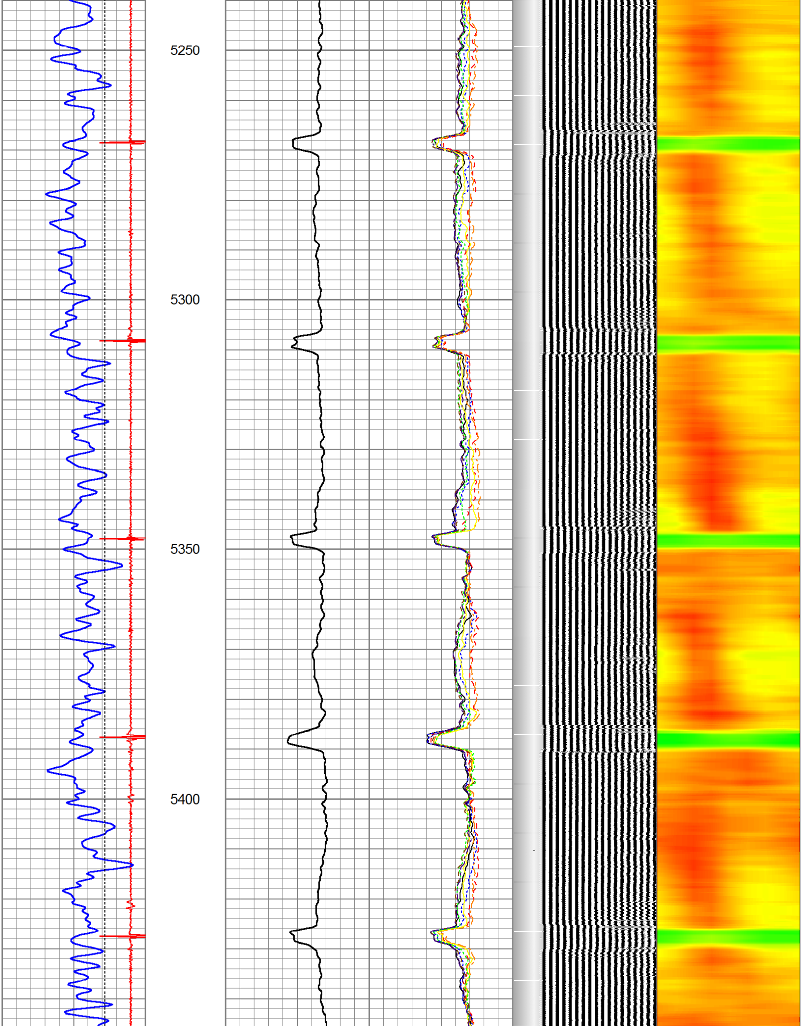


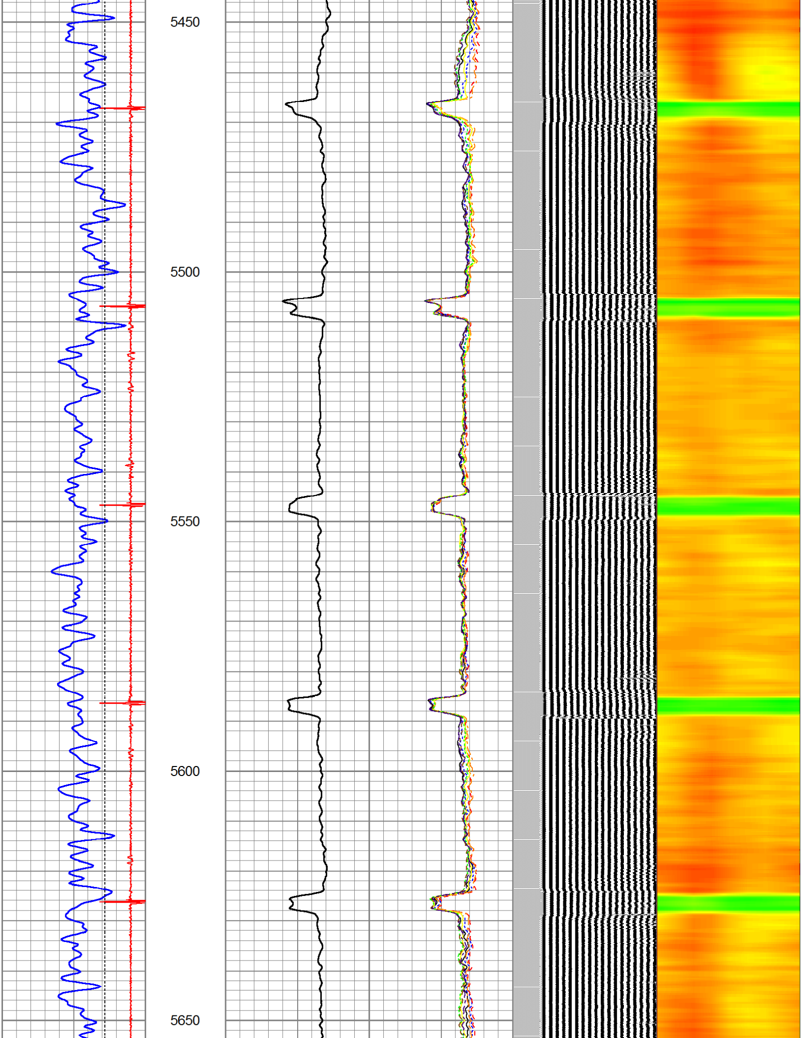


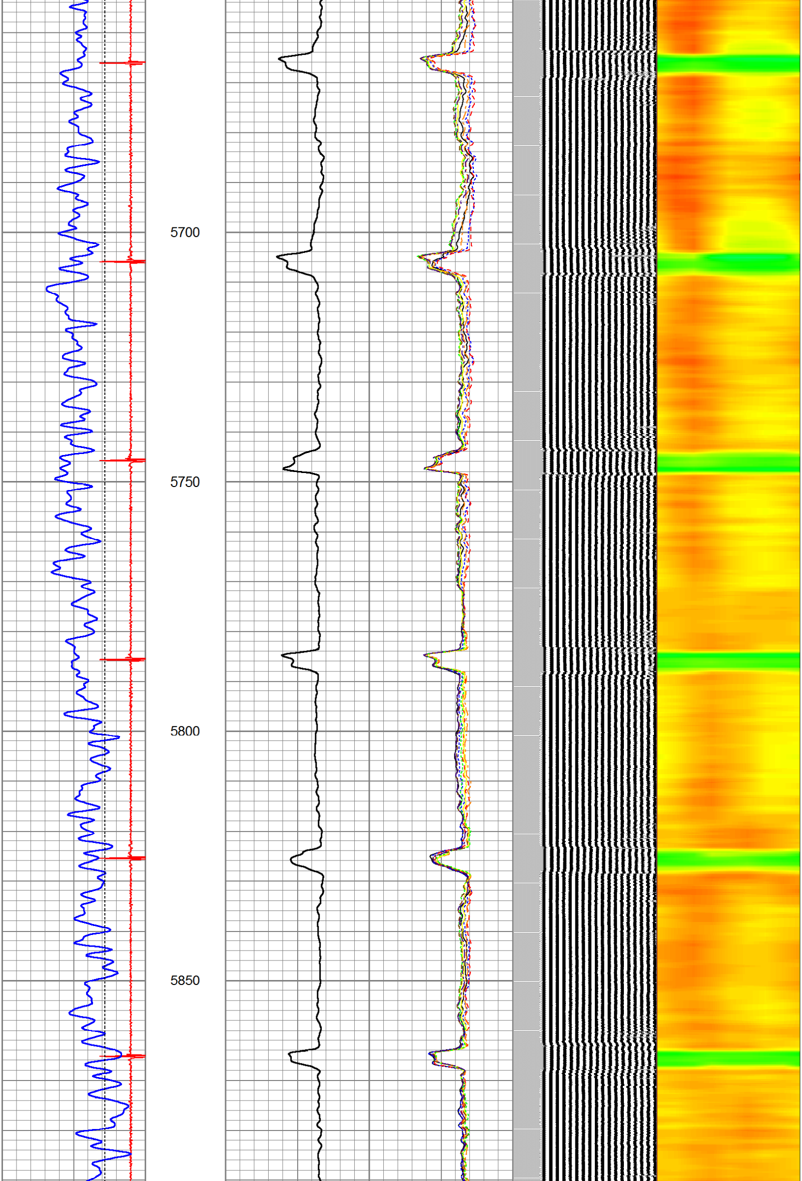


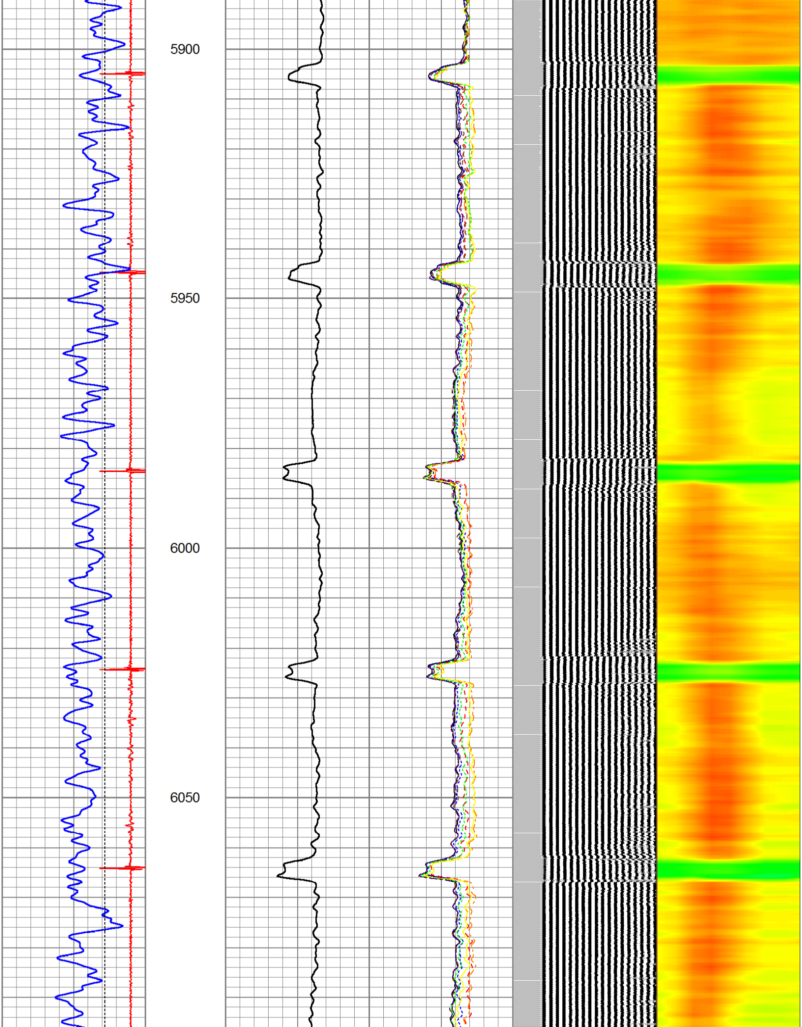


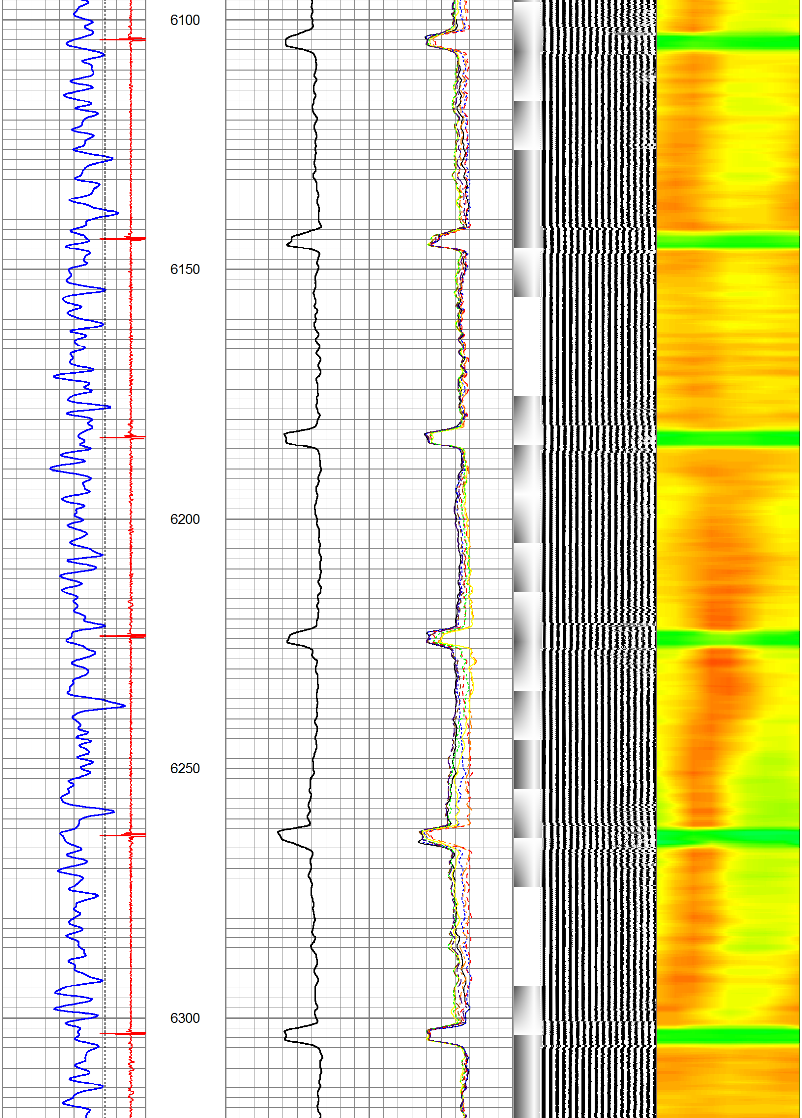


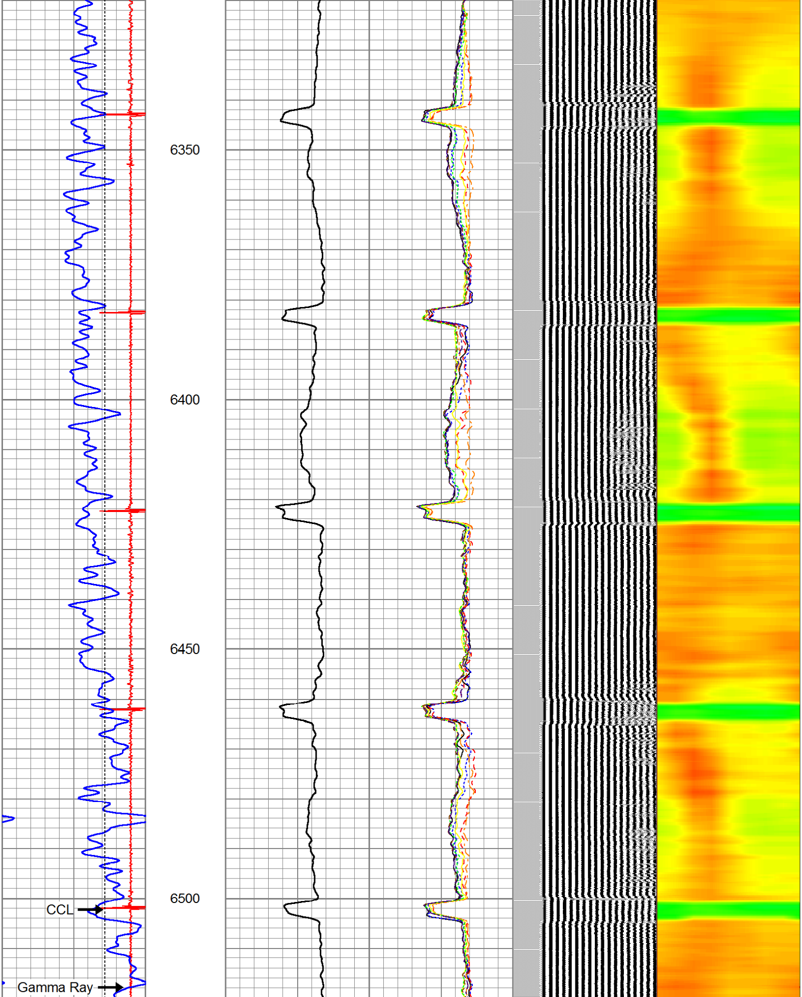


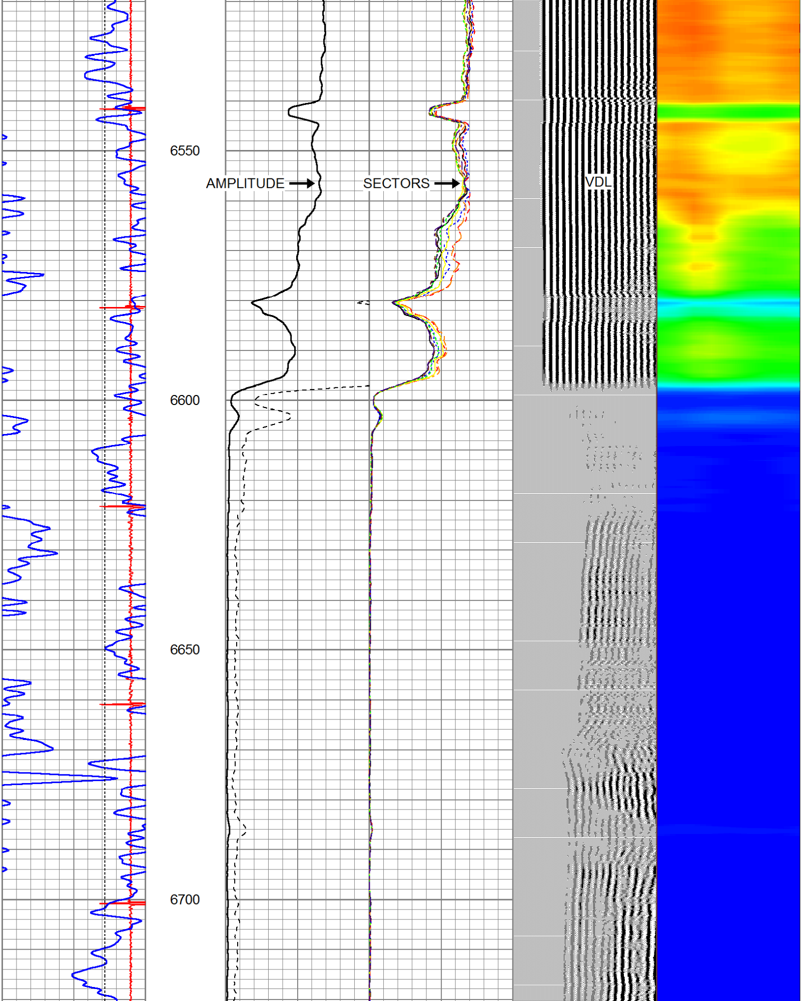


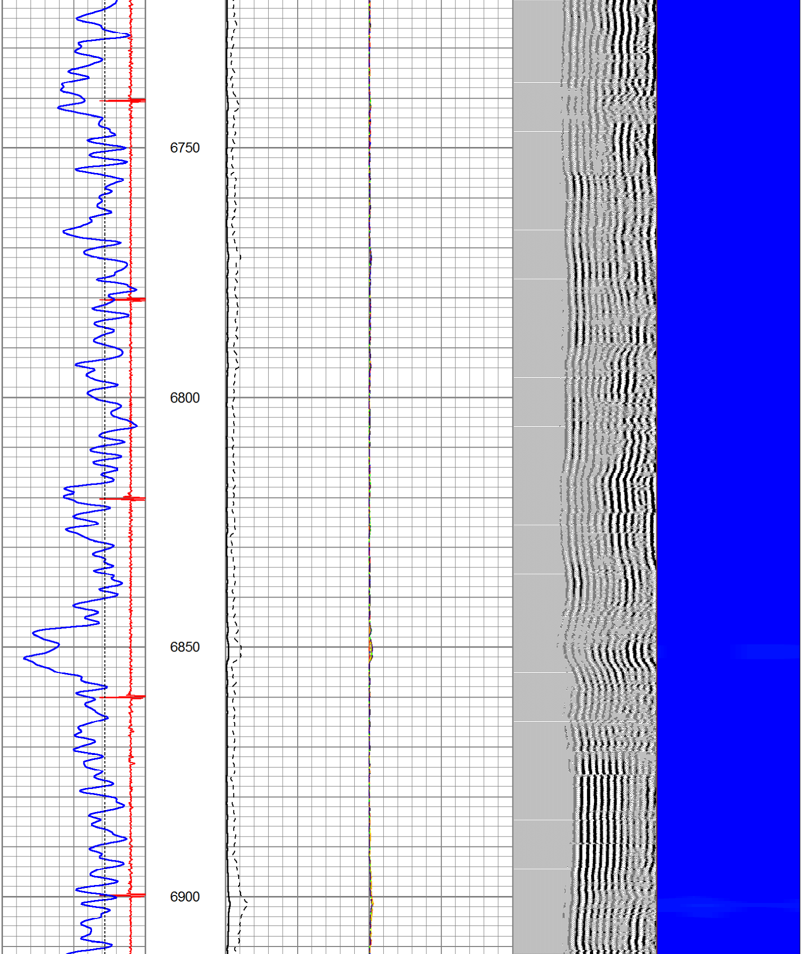


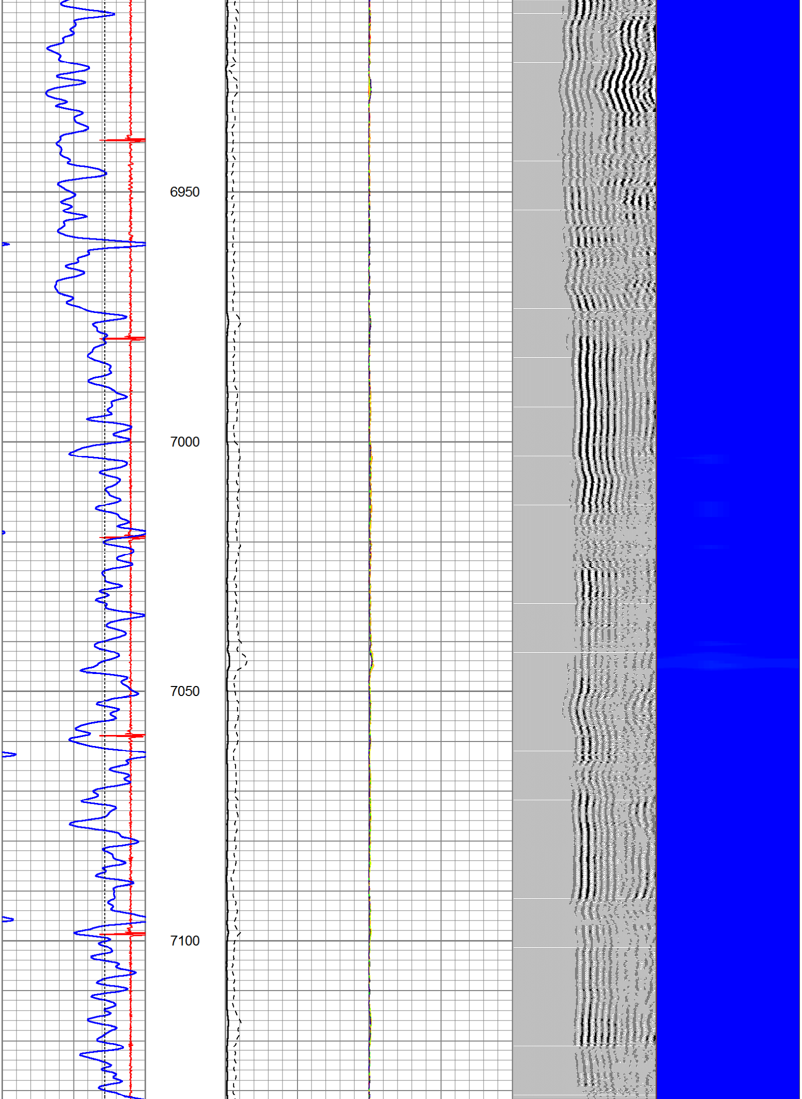


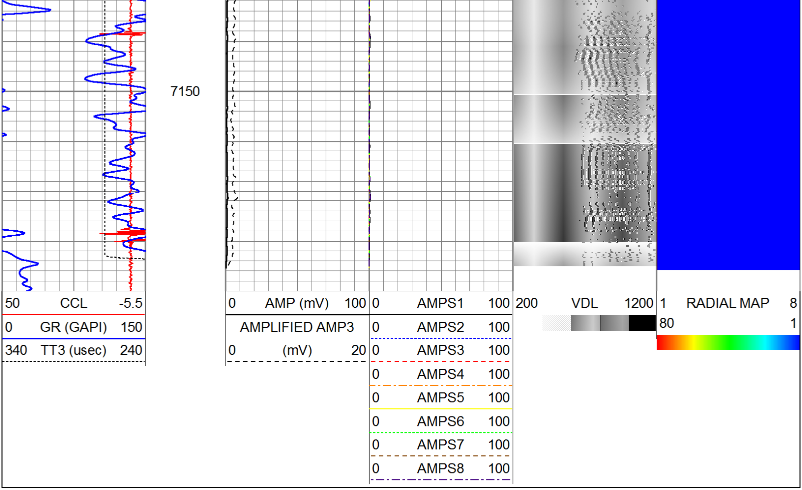












Calibration Report

Database File: champlin 366 amoco b 1 noble energy 12-2-19 ag.db
Dataset Pathname: pass11
Dataset Creation: Mon Dec 02 10:54:48 2019 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION

Fri Oct 26 07:37:47 2018

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6800			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: 4418.008 ft

Master Calibration, performed Mon Dec 02 10:40:29 2019:

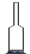
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	1.790	0.800	81.196	45.110	0.466
CAL	0.008	0.131				
5'	0.008	1.459	0.800	81.196	55.386	0.369
SUM						
S1	0.008	1.786	0.000	81.196	45.656	-0.353
S2	0.007	1.814	0.000	81.196	44.939	-0.332
S3	0.008	1.812	0.000	81.196	45.000	-0.349
S4	0.007	1.806	0.000	81.196	45.152	-0.338
S5	0.008	1.804	0.000	81.196	45.204	-0.339
S6	0.008	1.776	0.000	81.196	45.909	-0.348
S7	0.008	1.761	0.000	81.196	46.300	-0.351
S8	0.008	1.783	0.000	81.196	45.744	-0.348

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

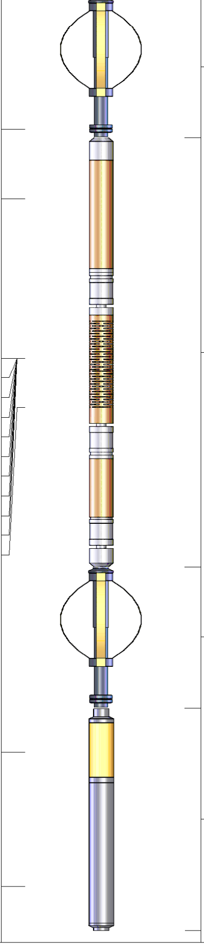
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	0.131	1.000	0.000

Air Zero Calibration, performed Mon Jul 01 12:28:08 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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00

HEADVOLT	16.33
IntTemp	14.92
WVF3FT	11.67
WVFCAL	11.67
WVFS1	11.67
WVFS2	11.67
WVFS3	11.67
WVFS4	11.67
WVFS5	11.67
WVFS6	11.67
WVFS7	11.67
WVFS8	11.67
WVF5FT	10.67
CCL	3.63
GR	0.90



Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
RBT-Probe (101020) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
GR-Probe275dig (110785) Probe Gamma CCL	4.54	2.75	57.00

Dataset: champlin 366 amoco b 1 noble energy 12-2-19 ag.db: field/well/run1/pass11
Total Length: 20.04 ft
Total Weight: 197.00 lb
O.D. 2.75 in