RADIAL BOND
GAMMA RAY
COLLAR LOG

Company BISON OIL & GAS II LLC
Well GROTHEER 5-61 11A-2-3
Field WATTENBERG
County WELD
State COLORADO

Company BISON OIL & GAS II LLC
Well GROTHEER 5-61 11A-2-3
Field WATTENBERG
County WELD State COLORADO
Location: API # : 05-123-51228
SW/SW
SEC 11 TWP 5N RGE 61W
Other Services

Permanent Datum	GL	Elevation 4709	Elevation
Log Measured From	KB		K.B. 4733
Drilling Measured From	KB		D.F. G.L. 4709

Date	SEPTEMBER 3, 2022
Run Number	ONE
Depth Driller	16,339
Depth Logger	6392
Bottom Logged Interval	6392
Top Log Interval	SURFACE
Open Hole Size	8-1/2
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	217°F
Estimated Cement Top	SURFACE
Time Well Ready	ROA
Time Logger on Bottom	14:15
Equipment Number	802
Location	KERSEY, CO
Recorded By	GREG NOLAN
Witnessed By	KRIS PETERSON

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8	36#	SURFACE	1850
Prot. String				
Production String	5-1/2	20#	SURFACE	16,339
Liner				

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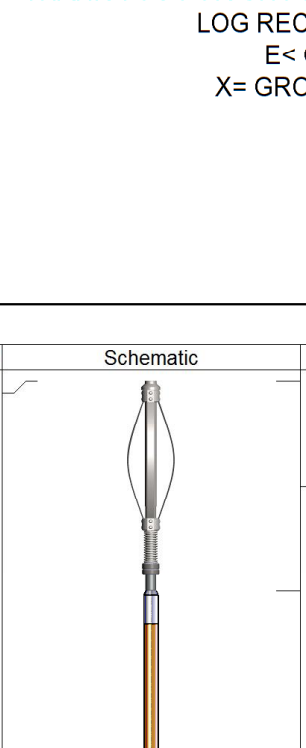
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

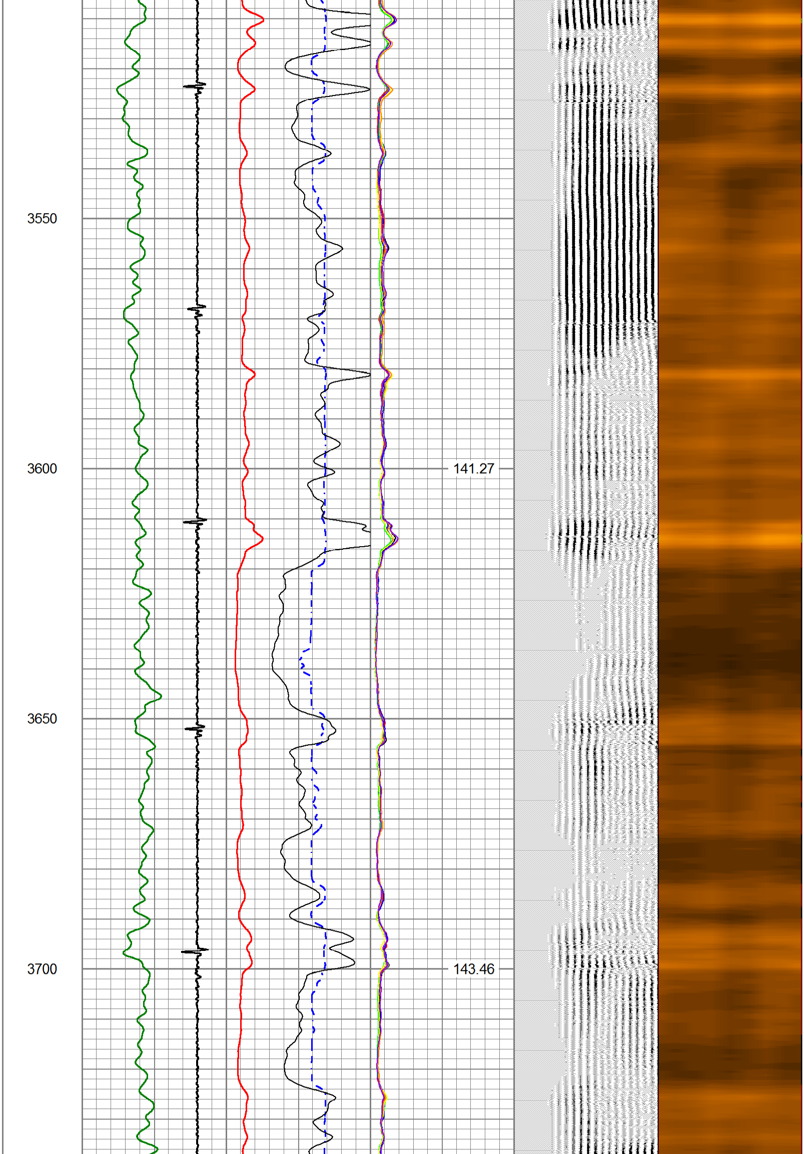
Comments

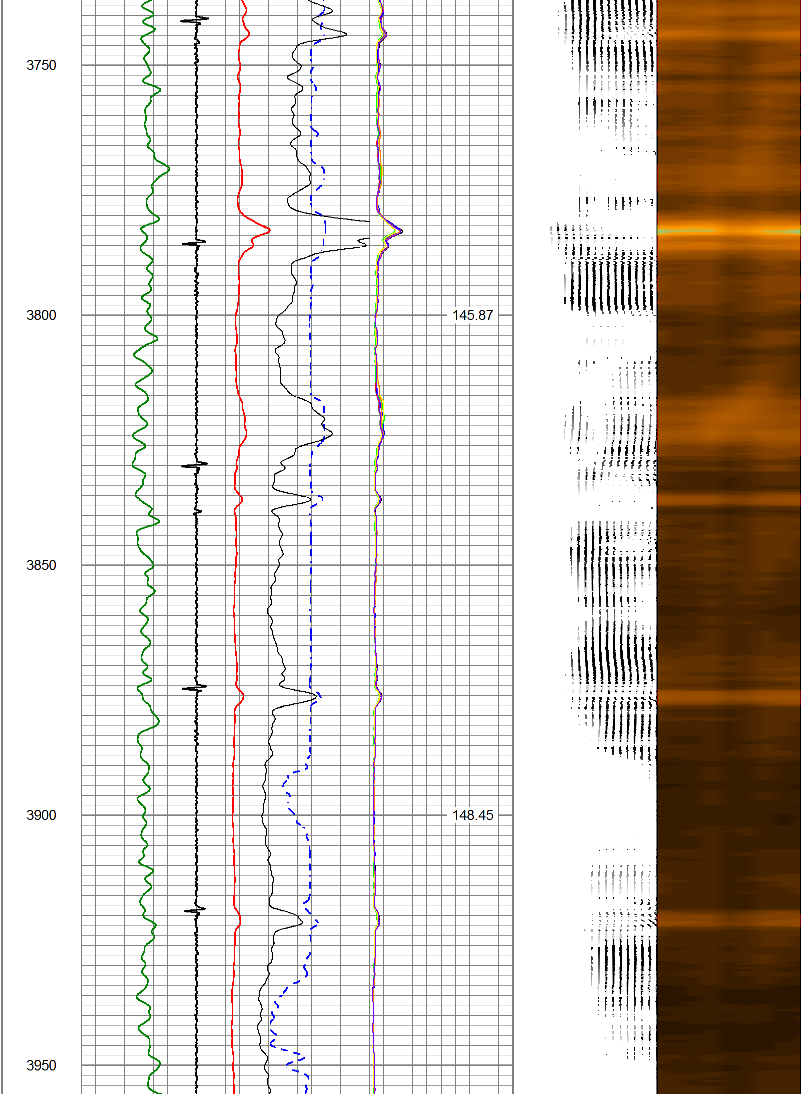
THANK YOU FOR CHOOSING SUREFIRE WIRELINE WEST!!!
LOG RECORDED USING 24' KB
E< O O O O X O >W
X= GROTHEER 5-61 11A-2-3

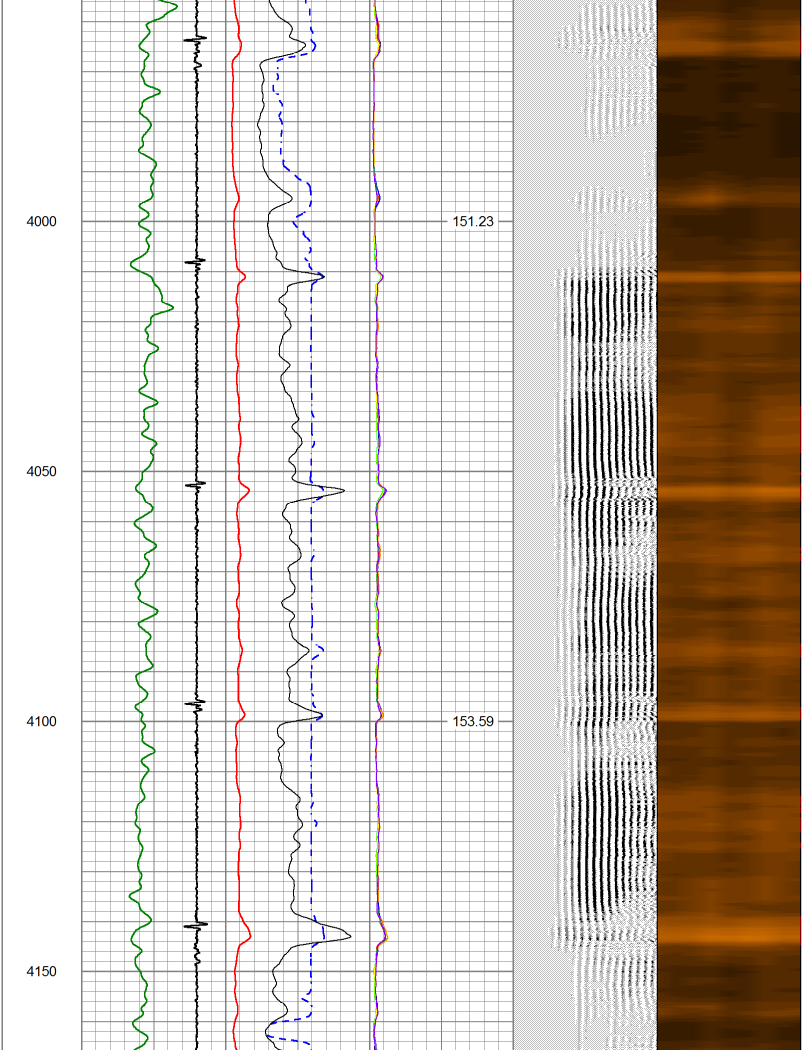
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
ErrCt	19.69					
			CENT-BC275-0000 Probe 2.75" Bowspring Centralizer	2.83	2.75	24.00
WVFSYNC WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVFCAL WVF3FT WVF5FT	12.27 12.27 12.27 12.27 12.27 12.27 12.27 12.27 12.27 12.27 12.27 11.19		RBT-Probe (FW1905-055) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			CENT-BC275-0000 Probe 2.75" Bowspring Centralizer	2.83	2.75	24.00
GCT_HV	5.10					
CCL$2 CCL$1 GCT_Temp	4.14 4.14 3.59					
GR	2.72		GC-GCT275-0000 (FW1905-098) Probe Gamma Ray - CCL w/ Temp	4.77	2.75	55.00
			Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

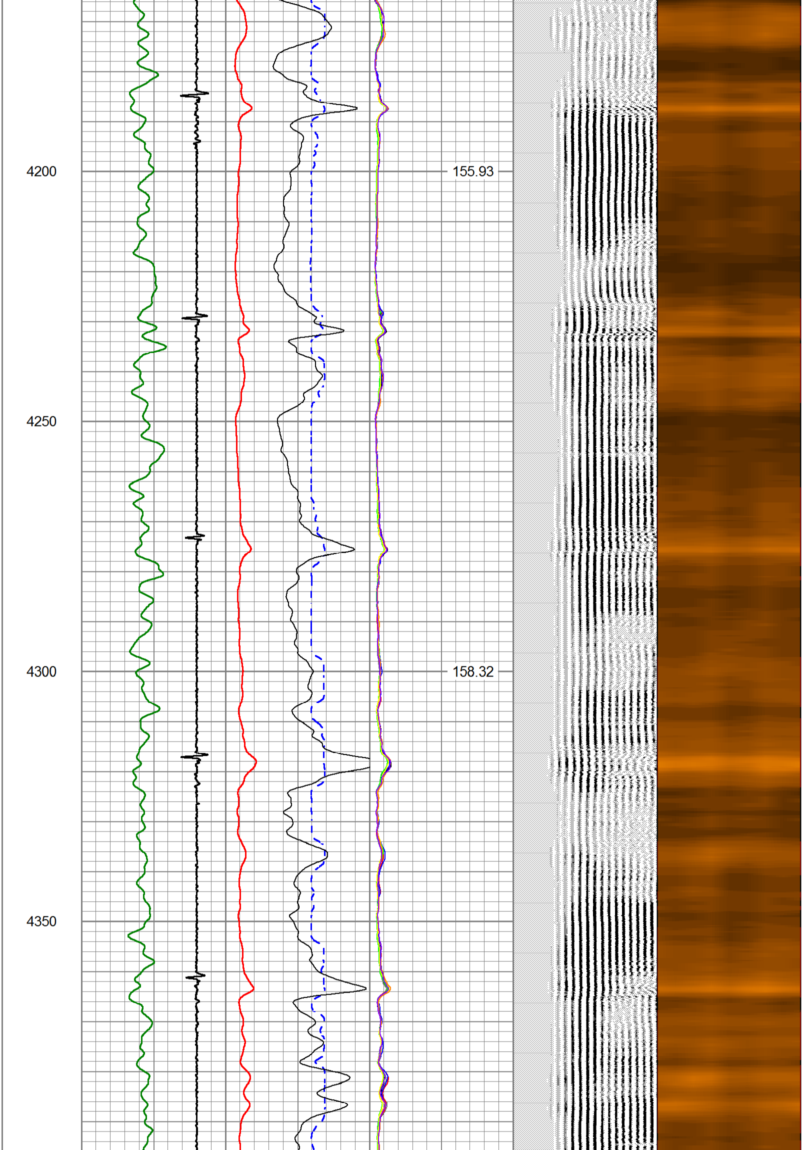
Dataset:	cbl civitas grotheer 5-61 11a-2-3.db: field/well/run1/pass3
Total length:	19.69 ft
Total weight:	194.00 lb
O.D.:	2.75 in

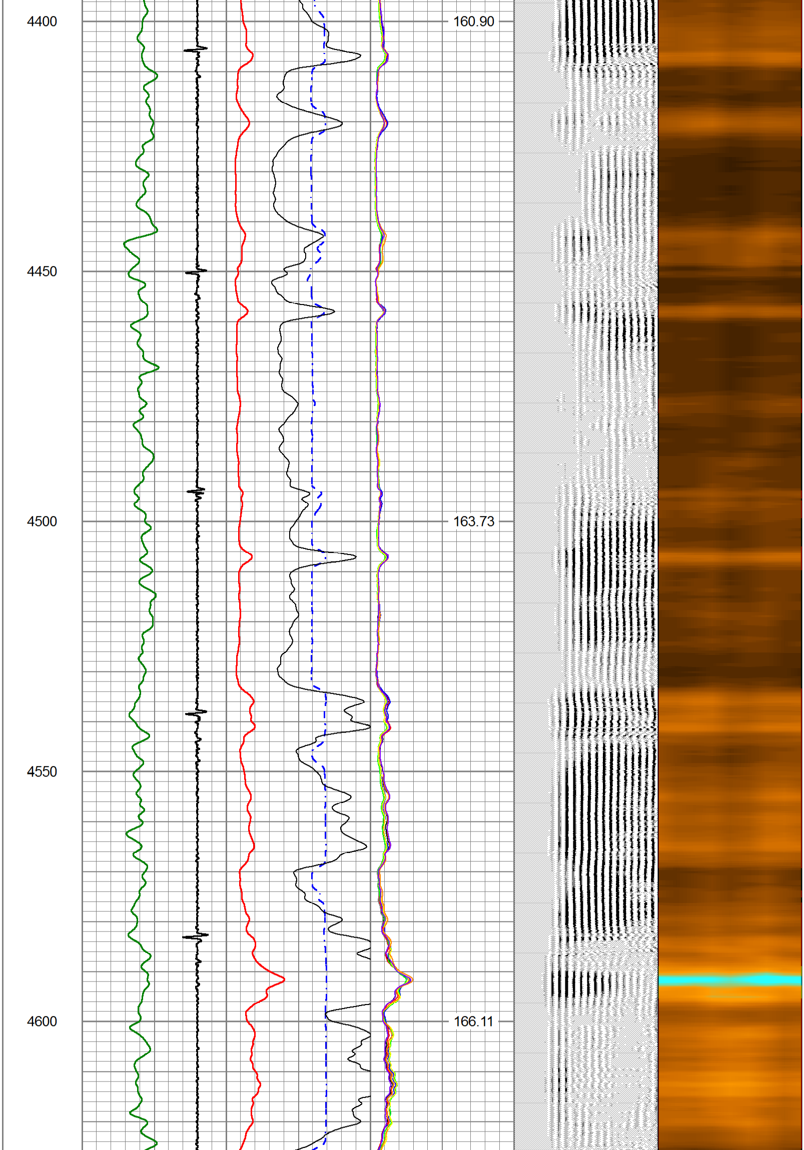
Database File	cbl civitas grotheer 5-61 11a-2-3.db
Dataset Pathname	pass3
Presentation Format	civitas
Dataset Creation	Sat Sep 03 14:10:55 2022
Charted by	Depth in Feet scaled 1:240

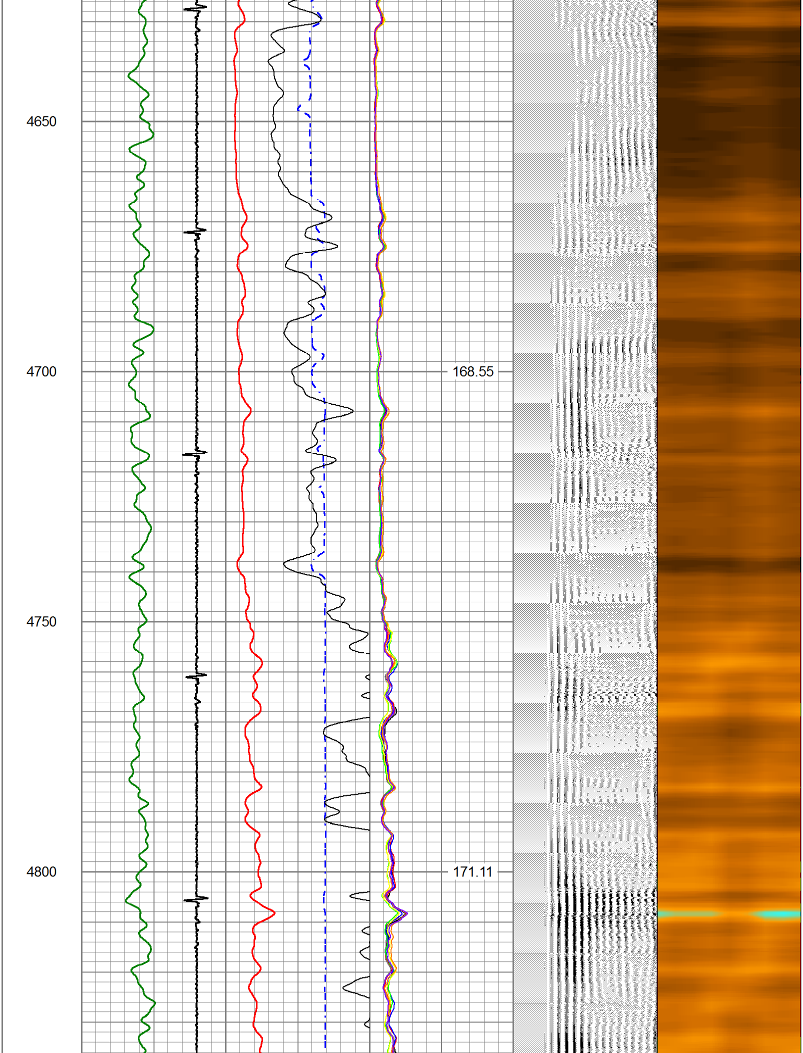


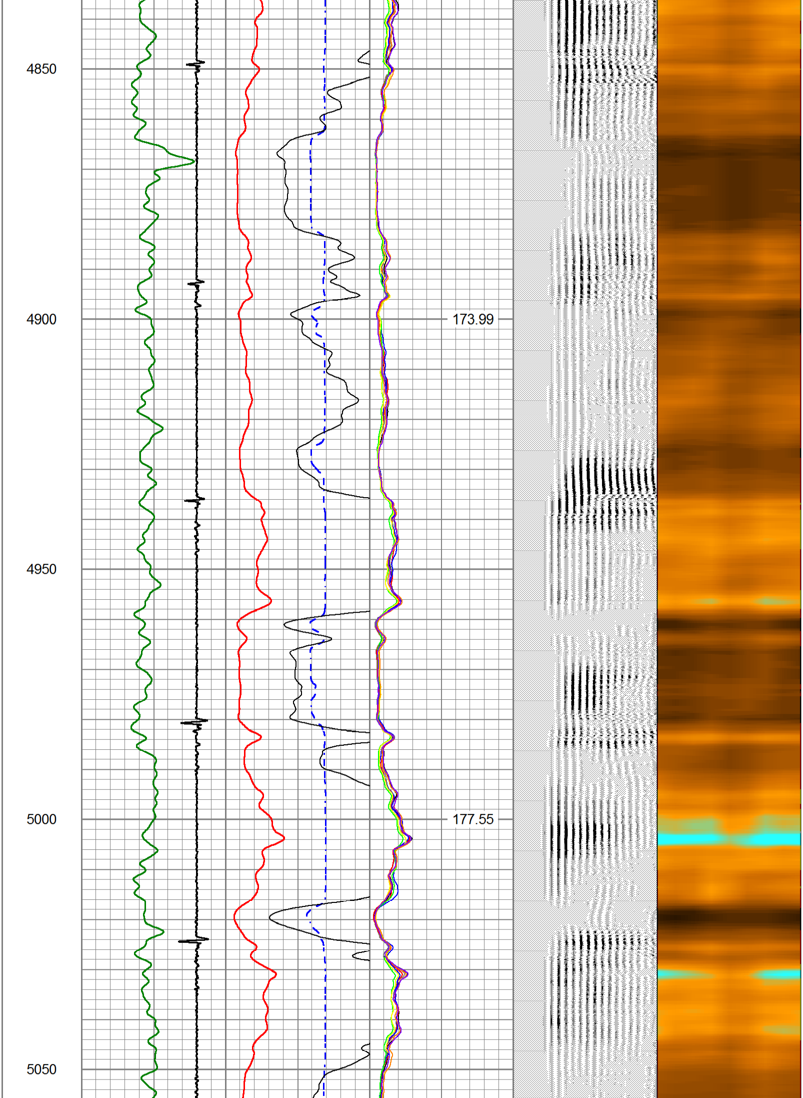


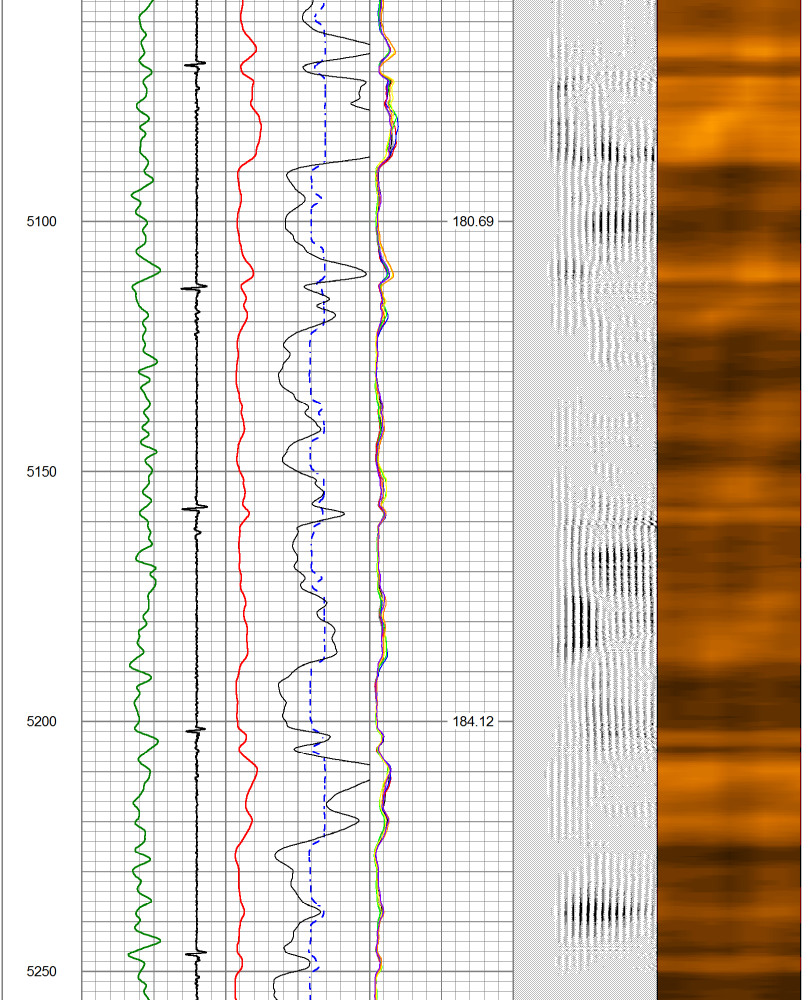


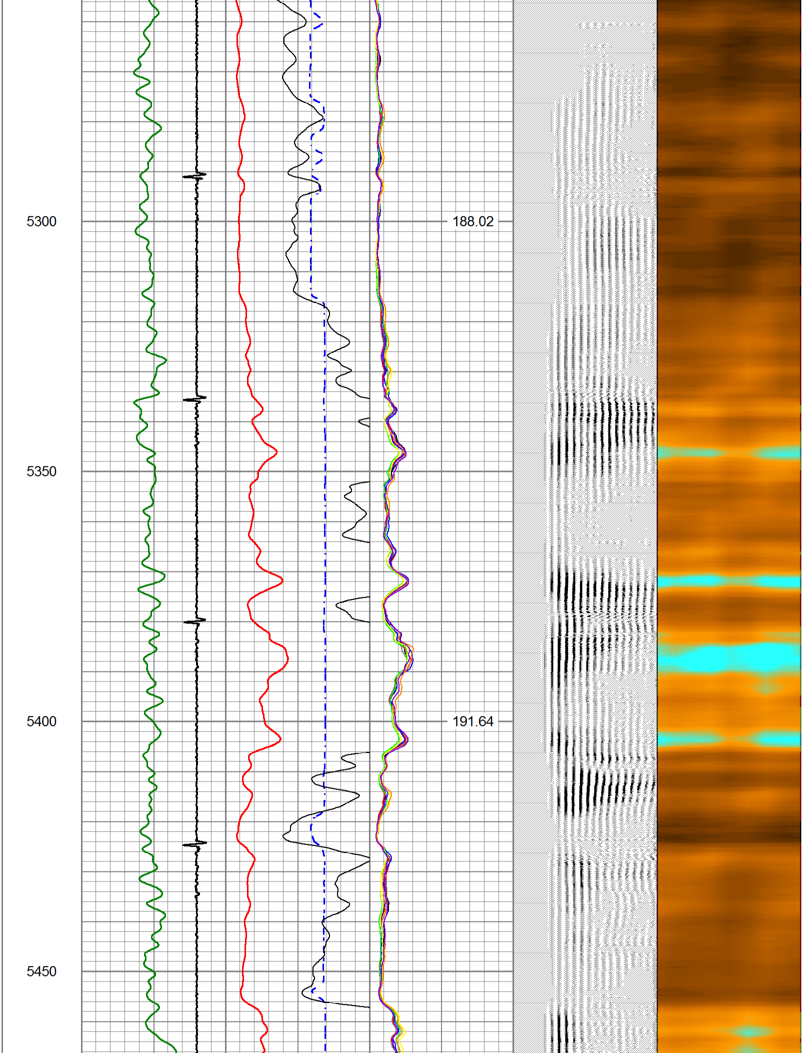


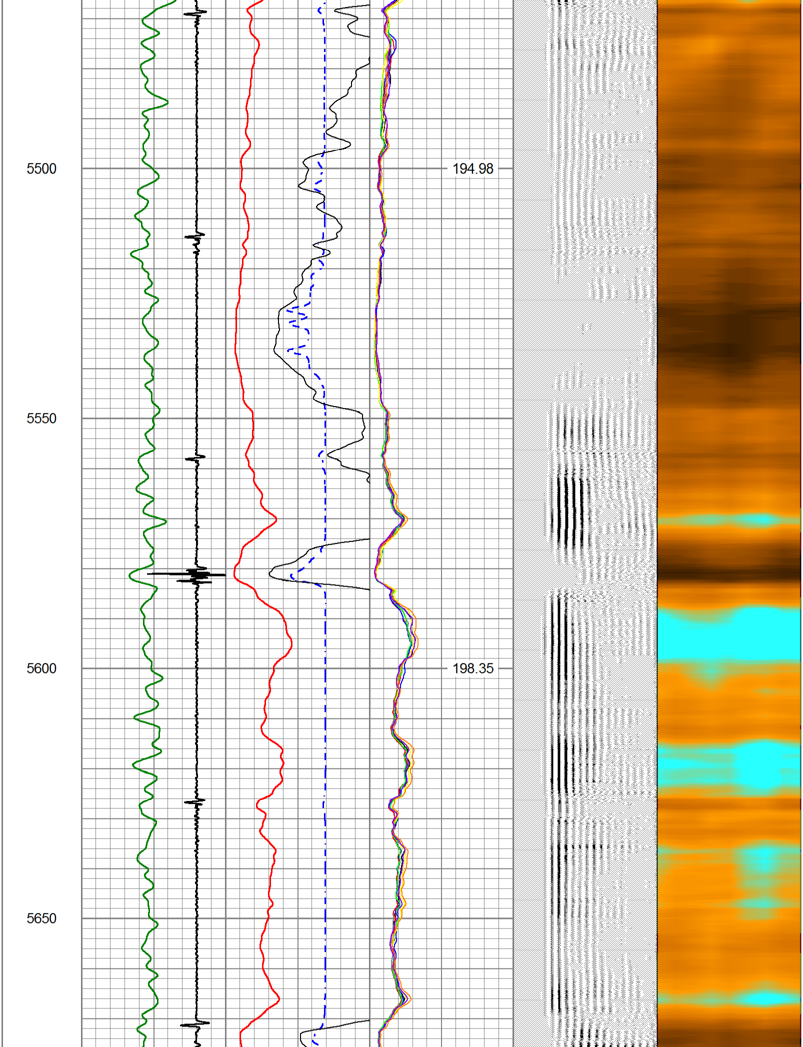


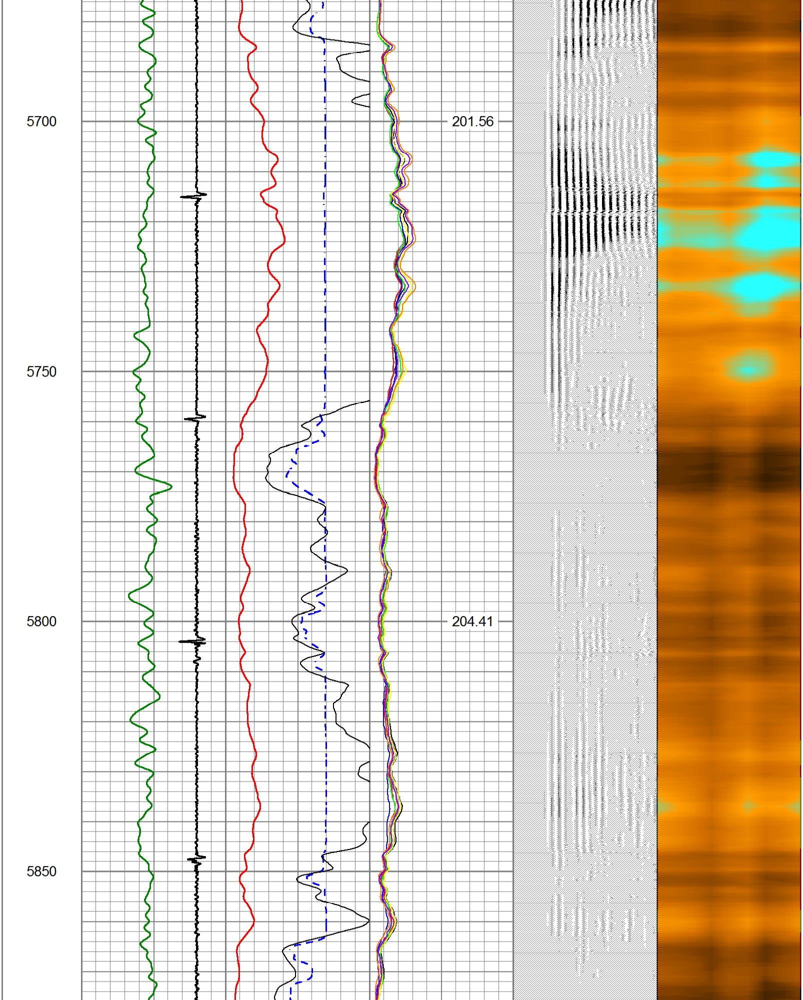


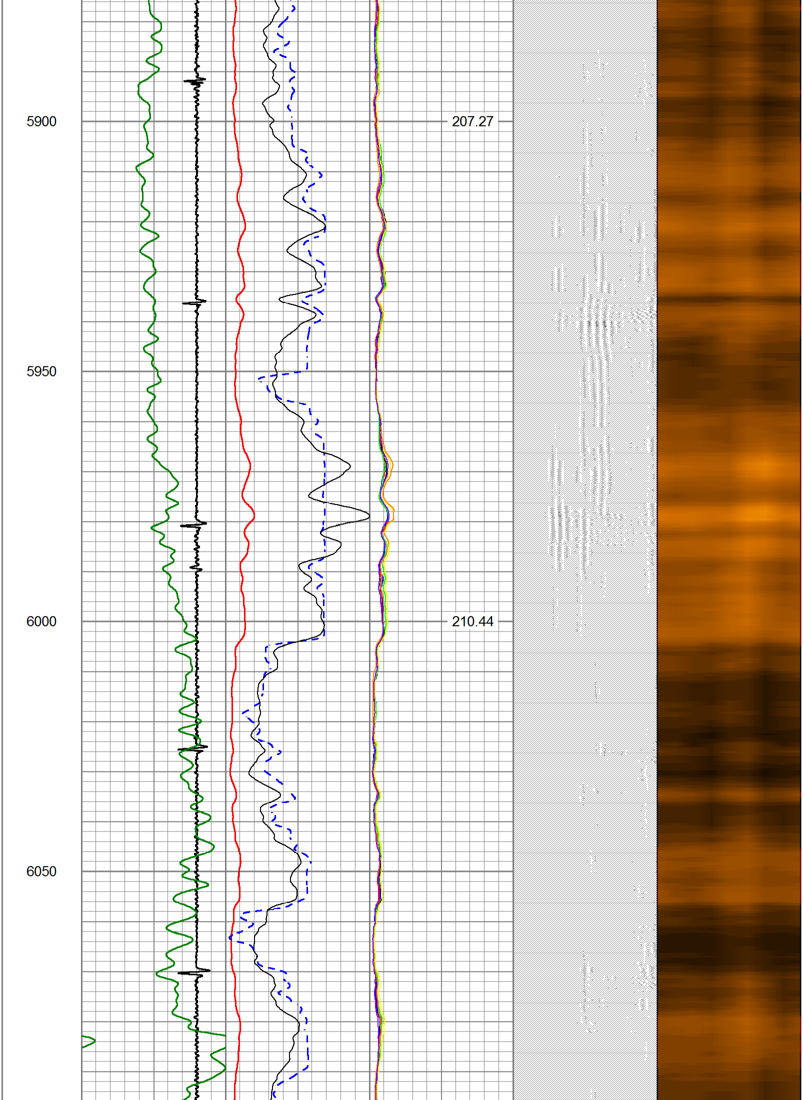


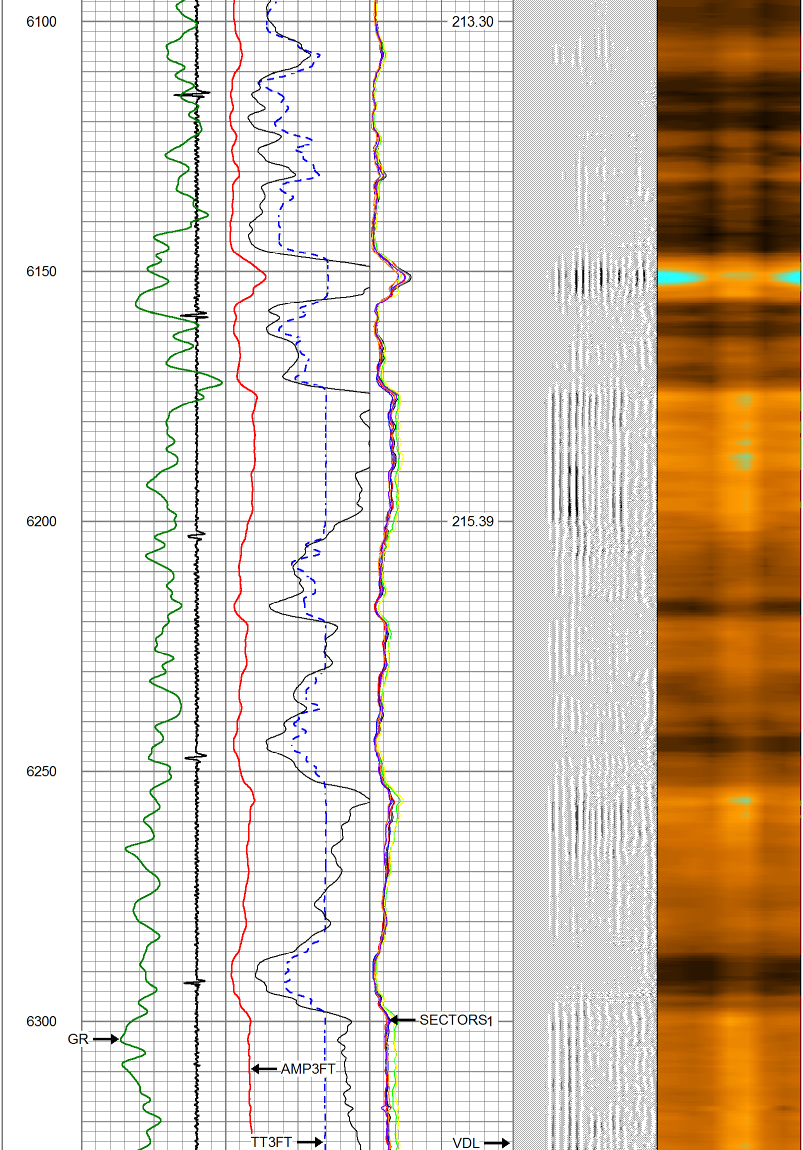


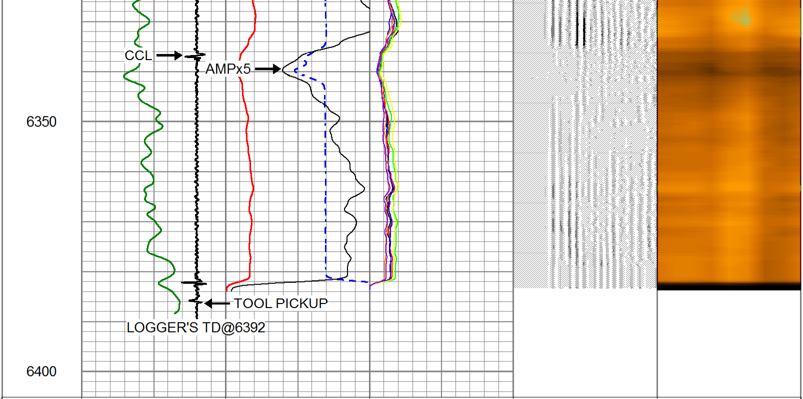












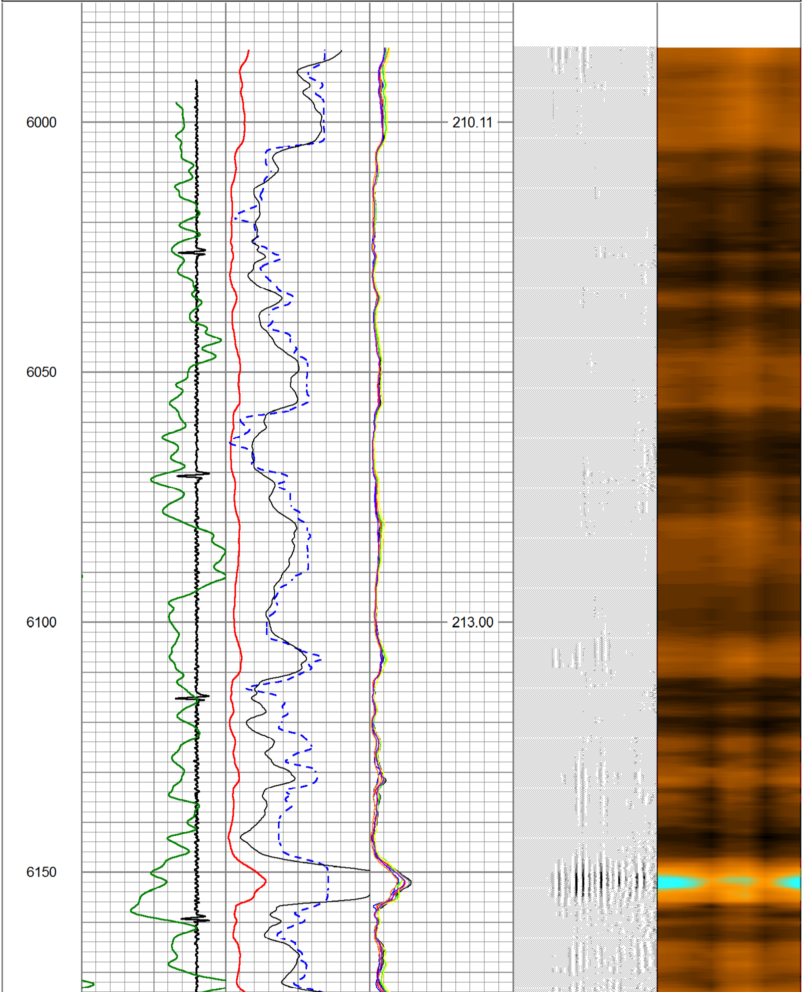
10 CCL$1 -2.5	0 AMP (mV) 100	0 AMPS1 150	200 VDL (usec) 1200	1 RADIAL MAP 8
0 GR (GAPI) 150	650 TT (usec) 150	0 AMPS2 150		
	0 AMPx5 (mV) 20	0 AMPS3 150		
		0 AMPS4 150		
		0 AMPS5 150		
		0 AMPS6 150		
		0 AMPS7 150		
		0 AMPS8 150		
		GCT_Temp (degF)		

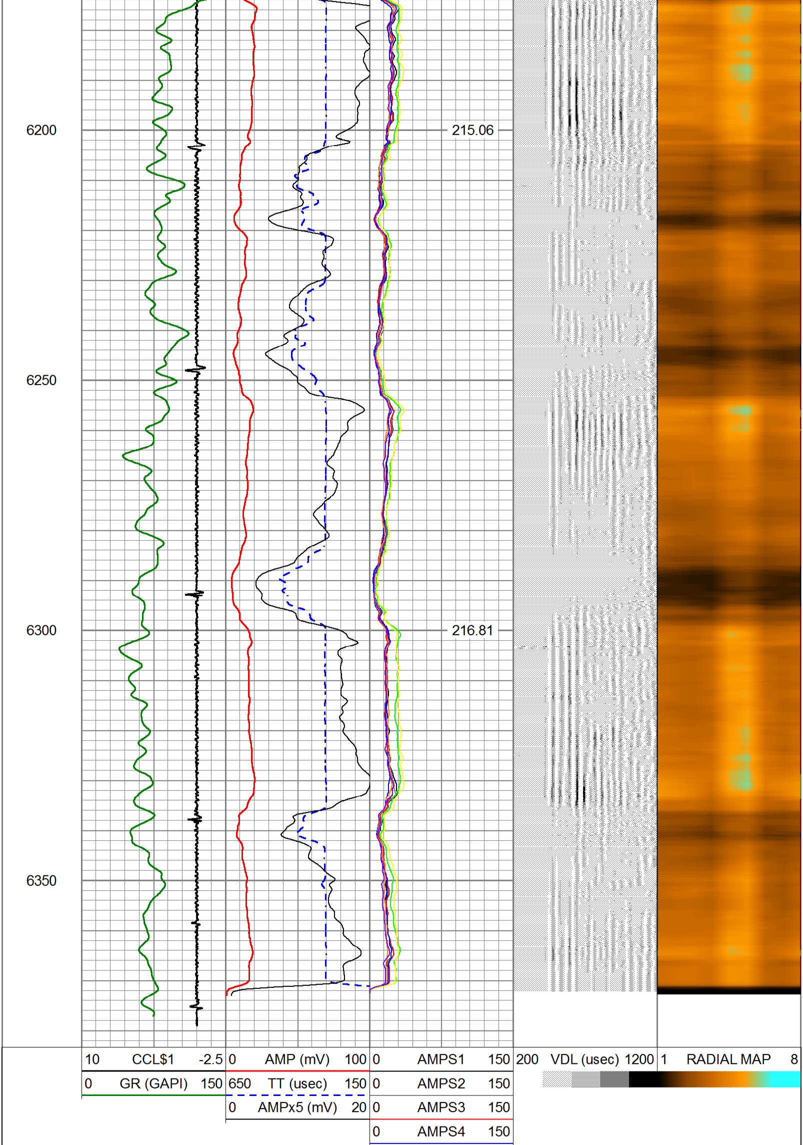
SureFire WIRELINE WEST LLC

REPEAT SECTION

Database File	cbl civitas grotheer 5-61 11a-2-3.db
Dataset Pathname	pass2
Presentation Format	civitas
Dataset Creation	Sat Sep 03 14:05:07 2022
Charted by	Depth in Feet scaled 1:240

10 CCL$1 -2.5	0 AMP (mV) 100	0 AMPS1 150	200 VDL (usec) 1200	1 RADIAL MAP 8
0 GR (GAPI) 150	650 TT (usec) 150	0 AMPS2 150		
	0 AMPx5 (mV) 20	0 AMPS3 150		
		0 AMPS4 150		
		0 AMPS5 150		
		0 AMPS6 150		
		0 AMPS7 150		
		0 AMPS8 150		
		GCT_Temp (degF)		





0	AMPS5	150
0	AMPS6	150
0	AMPS7	150
0	AMPS8	150
	GCT_Temp (degF)	

Calibration Report

Database File	cbl civitas grotheer 5-61 11a-2-3.db
Dataset Pathname	pass3
Dataset Creation	Sat Sep 03 14:10:55 2022

Gamma Ray Calibration Report

Serial Number:	FW1905-098	
Tool Model:	GCT275-0000	
Performed:	Sat Sep 03 08:19:32 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1905-055	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	241.142	ft

Master Calibration, performed Sat Sep 03 07:47:48 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.940	0.800	71.921	36.655	0.794
CAL	-0.000	1.801				
5'	0.000	2.160	0.800	71.921	32.922	0.794
SUM						
S1	0.001	1.918	0.000	71.921	37.507	-0.027
S2	0.001	1.908	0.000	71.921	37.703	-0.022
S3	0.000	1.946	0.000	71.921	36.964	-0.010
S4	0.001	1.931	0.000	71.921	37.262	-0.026
S5	0.001	2.082	0.000	71.921	34.546	-0.020
S6	0.000	2.015	0.000	71.921	35.690	-0.013
S7	0.001	1.937	0.000	71.921	37.138	-0.025
S8	0.001	1.937	0.000	71.921	37.149	-0.019

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.000	1.801	1.000	0.000

Air Zero Calibration, performed Wed Aug 03 09:57:42 2022:

	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