C&J ENERGY SERVICES

RADIAL CEMENT BOND
GAMMA RAY CCL
LOG

Company	NOBLE ENERGY
Well	CHAMPLIN 366 AMOCO B1
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY

Well CHAMPLIN 366 AMOCO B1

Field WATTENBERG

County WELD **State** COLORADO

Location: API # : 05-123-09578

SE/NE

SEC 19 TWP 3 RGE 63

Other Services

Elevation

K.B.
D.F.
G.L.

Permanent Datum GROUND LEVEL Elevation
Log Measured From KELLY BUSHING
Drilling Measured From

Date	DECEMBER 3, 2019		
Run Number	ONE		
Depth Driller	7450'		
Depth Logger	1500'		
Bottom Logged Interval	1497'		
Top Log Interval	SURFACE		
Casing Size	4.5"		
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				
Production String	4.5"	10.5lb		
Liner				

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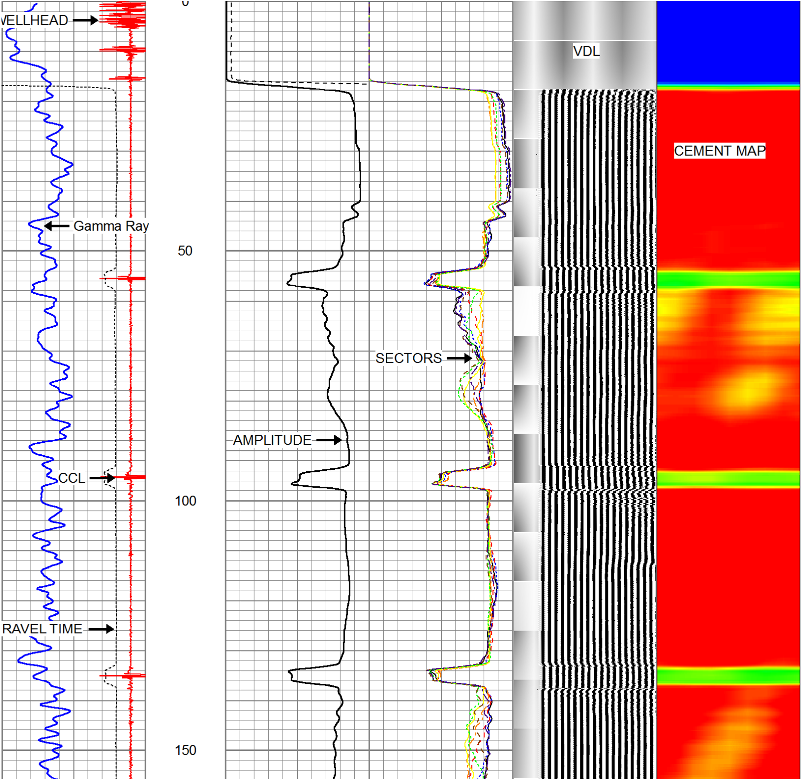
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

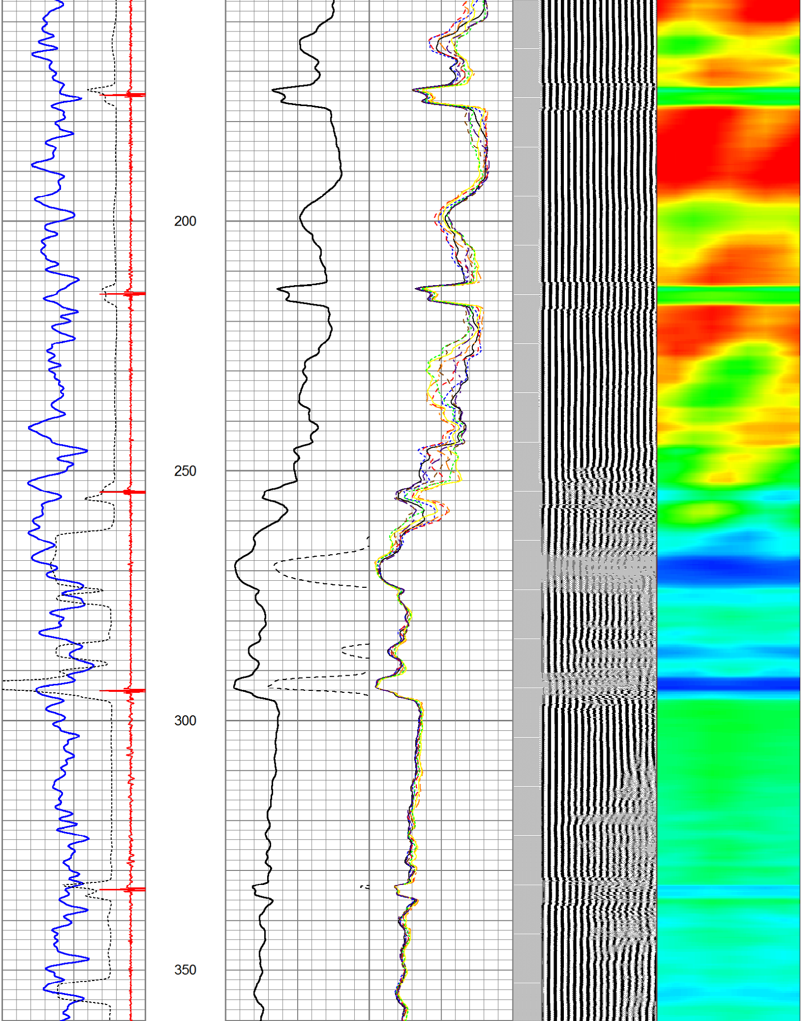
Comments

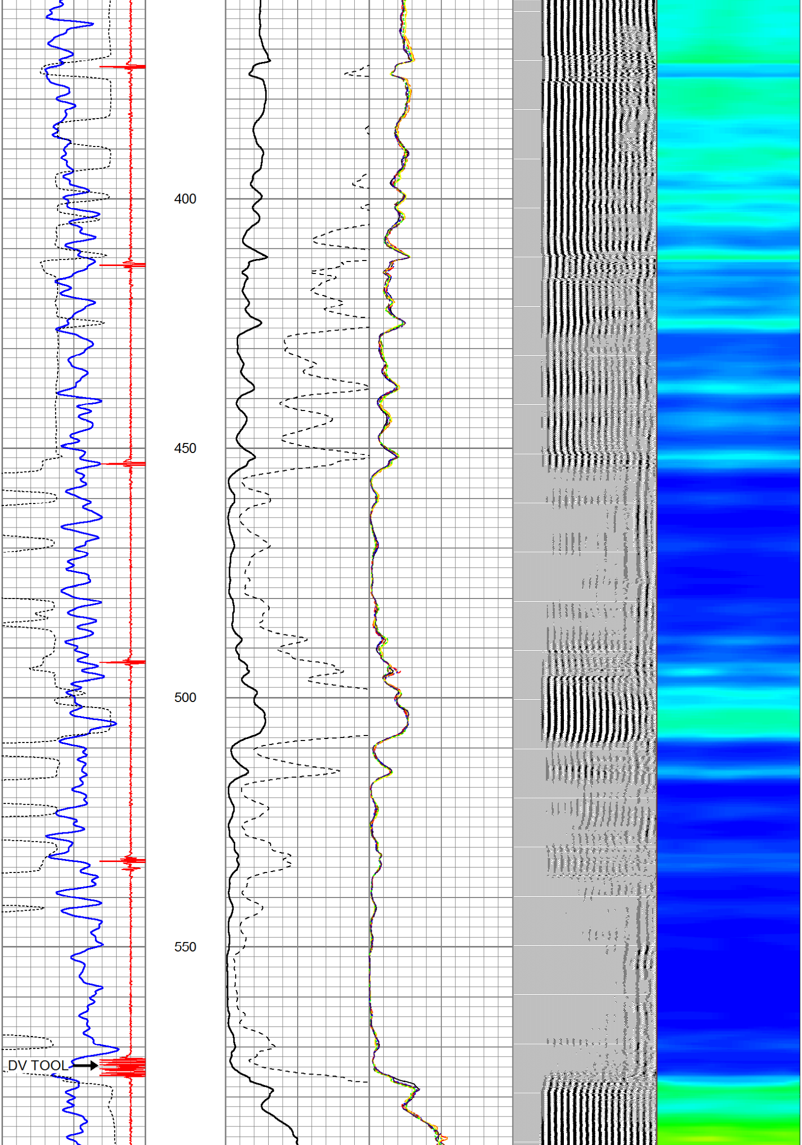
LOG NOT CORRELATED
THANK YOU FOR CHOOSING NEXTIER OILFIELD SOLUTIONS!!

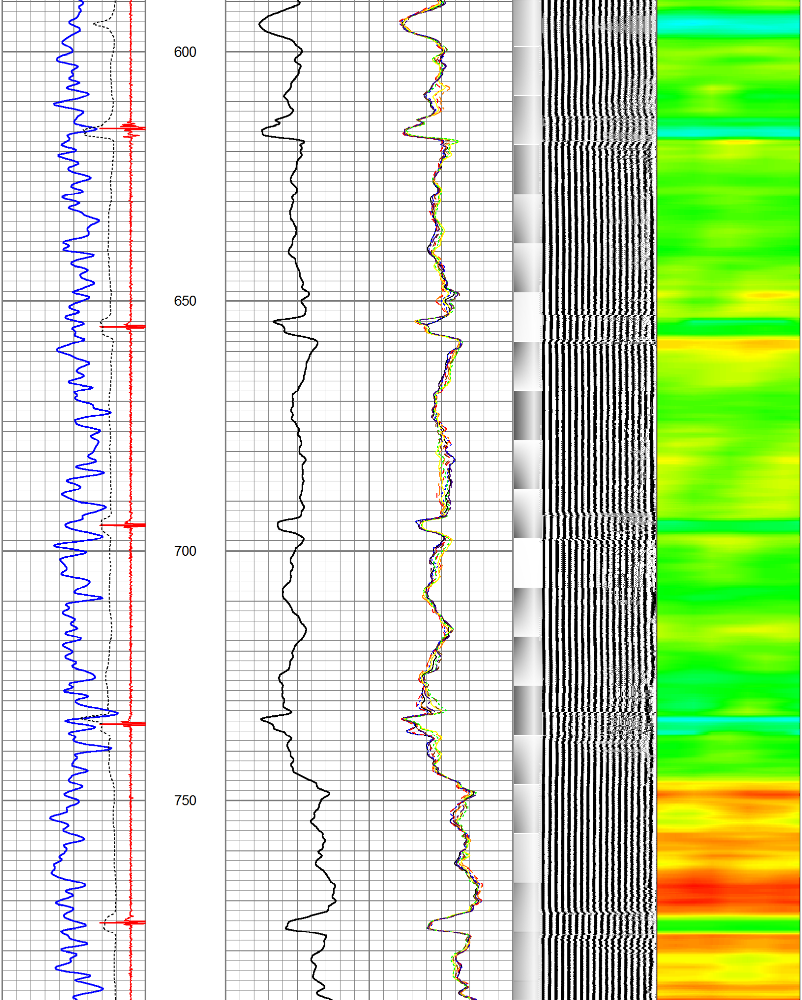
Database File: champlin 366 amoco b 1 noble energy 12-2-19 ag.db
Dataset Pathname: pass17
Presentation Format: zwag
Dataset Creation: Tue Dec 03 08:12:34 2019 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

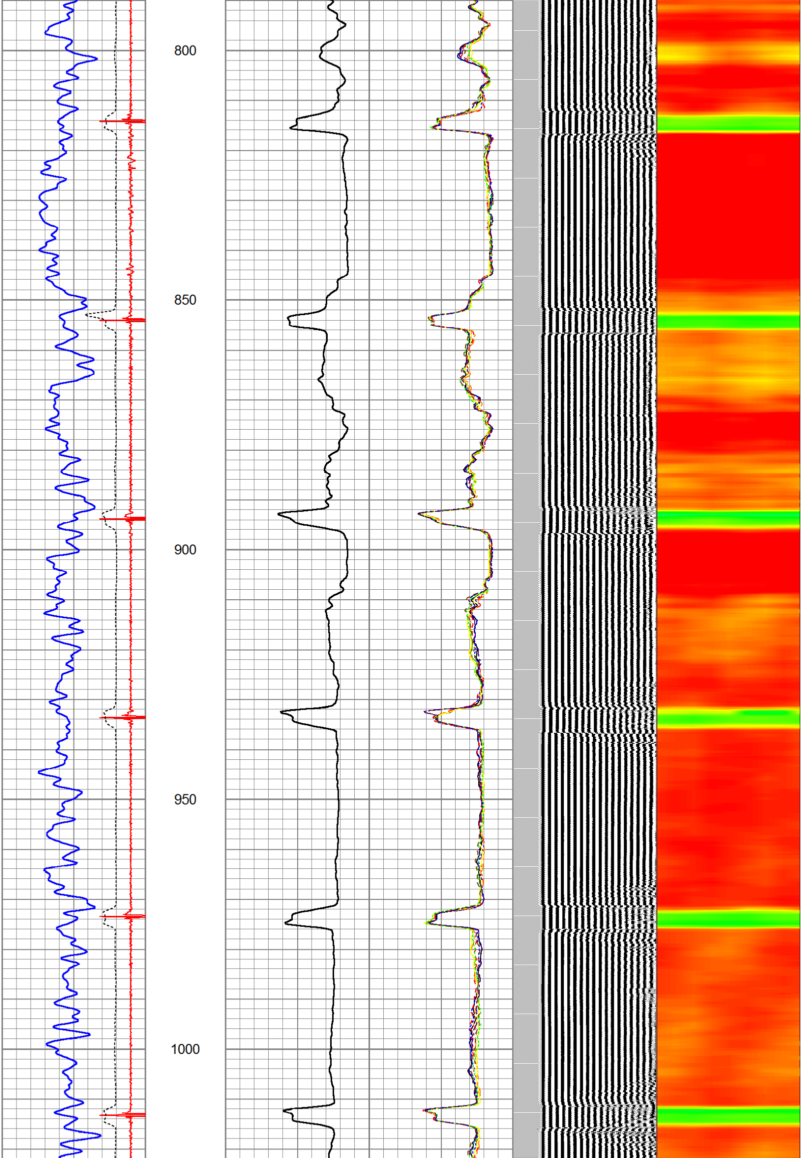
Track 1	Track 2	Track 3	Track 4	Track 5
50 CCL -5.5	0 AMP (mV) 100	0 AMPS1 100	200 VDL 1200	1 RADIAL MAP 8
0 GR (GAPI) 150	AMPLIFIED AMP3	0 AMPS2 100		80 1
340 TT3 (usec) 242	0 (mV) 20	0 AMPS3 100		
		0 AMPS4 100		
		0 AMPS5 100		
		0 AMPS6 100		
		0 AMPS7 100		
		0 AMPS8 100		

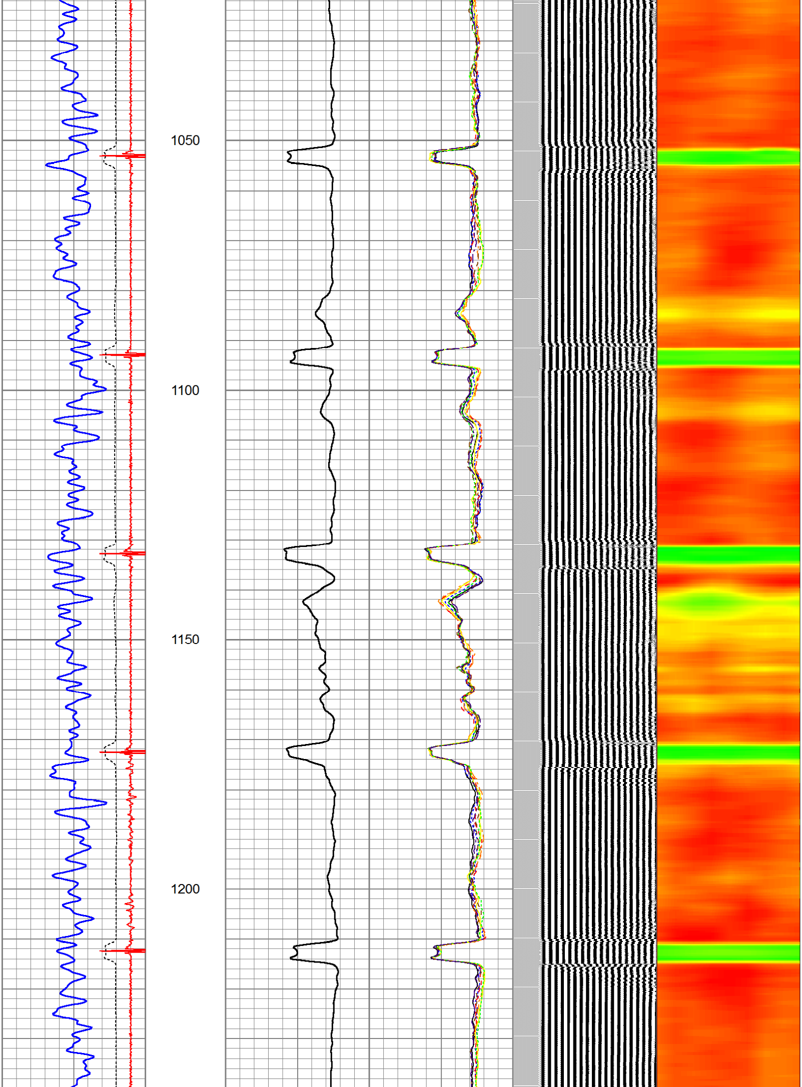


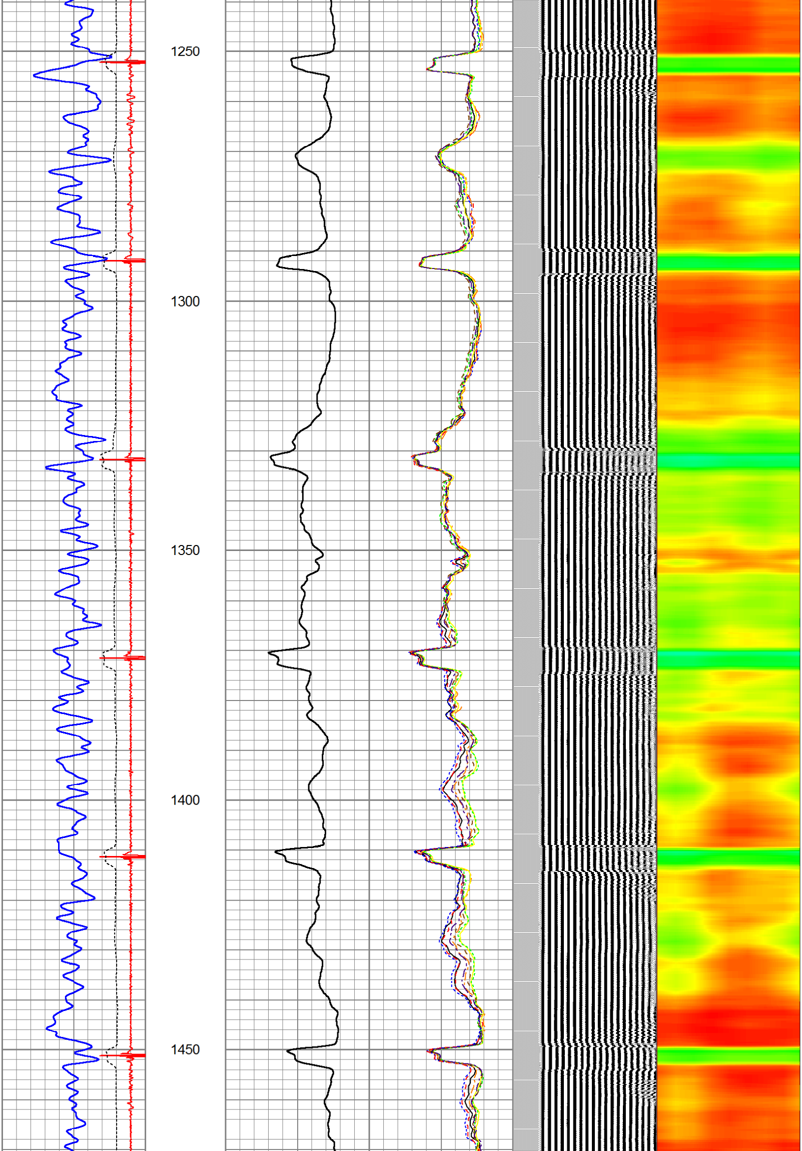


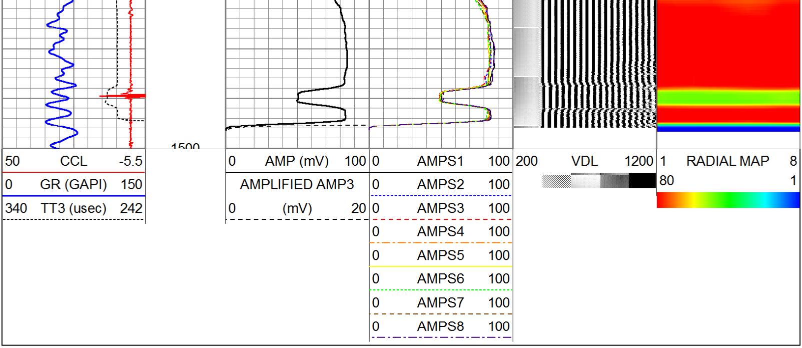












Calibration Report

Database File: champlin 366 amoco b 1 noble energy 12-2-19 ag.db
Dataset Pathname: pass17
Dataset Creation: Tue Dec 03 08:12:34 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

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

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:	853.475	ft

Master Calibration, performed Tue Dec 03 08:08:28 2019:

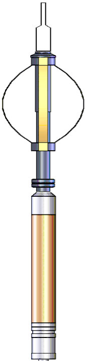
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.867	0.800	81.196	43.252	0.458
CAL	0.008	0.710				
5'	0.007	1.784	0.800	81.196	45.247	0.461
SUM						
S1	0.007	1.768	0.000	81.196	46.128	-0.342
S2	0.008	1.823	0.000	81.196	44.721	-0.341
S3	0.008	1.953	0.000	81.196	41.733	-0.317
S4	0.008	2.043	0.000	81.196	39.884	-0.302
S5	0.008	2.032	0.000	81.196	40.118	-0.309
S6	0.008	1.903	0.000	81.196	42.844	-0.322
S7	0.008	1.793	0.000	81.196	45.494	-0.356
S8	0.007	1.749	0.000	81.196	46.613	-0.341

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

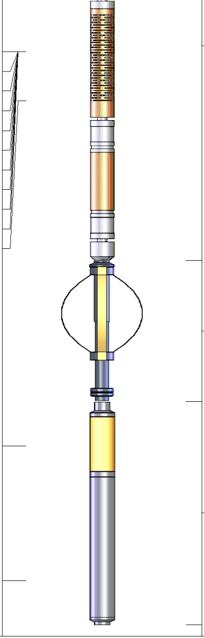
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	0.710	1.000	0.000

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
			Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
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



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/pass17
Total Length:	20.04 ft
Total Weight:	197.00 lb
O.D.	2.75 in