gyrodata

CEMENT BOND LOG

Company	Extraction Oil & Gas
Well	Hergert South 35W-15-5N
Field	Wattenberg
County	Weld
State	CO

Company Extraction Oil & Gas
Well Hergert South 35W-15-5N
Field Wattenberg
County Weld **State** CO

API # : 05-123-45901
Location: 2272' FSL & 647' FEL
LAT: 40.529589
LONG: -104.853400
SEC: 35 TWP: 7N RGE: 67W

Other Services
N/A

Elevation
K.B. 4908'
D.F. -----
G.L. 4883'

Permanent Datum: Ground Level Elevation: 4883'
Log Measured From: Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	7MAY2018
Run Number	ONE
Plug Back T.D. Driller	-----
Plug Back T.D. Logger	-----
Bottom Logged Interval	7427'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max. Recorded Temp.	233° F
Time Logger on Bottom	15:00
Equipment Number	GD112/GD166
Location	Casper, WY.
Recorded By	J. Baker
Witnessed By	Hans

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	-----				
5.5"	20#	Surface	-----				

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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.

Ticket # : RM0518PCBW514
Your Crew Today: B.Kennicker, M.Vazquez, M. Velequez
Log Correlated to: Surface

Cement Data	
Date Cemented	-----
Primary / Squeeze	Primary
Type / Weight	-----
Main Pass Press.	0 PSI
Repeat Pass Press.	0 PSI
Bond Index	
Index %	Est Top Depth
20 % Bond	268'
40 % Bond	474'
60 % Bond	477'
80 % Bond	2014'
100 % Bond	4867'

Comments

Estimated Cement Top at 268'
(20% Bond)

Marker Joint Located at 6,486

Thank you for using Gyrodata

Eric Regnier: Rocky Mountain Wireline Manager EricR@Gyrodata.com

Log Variables

Databased:\2018_05_07_extraction_hergert_south_35w_15_5n_cbl\2018_05_07_extraction_hergert
Dataset field/well/run1/MAINPASS/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	233	5.5	0.361	20	71.9	4.923

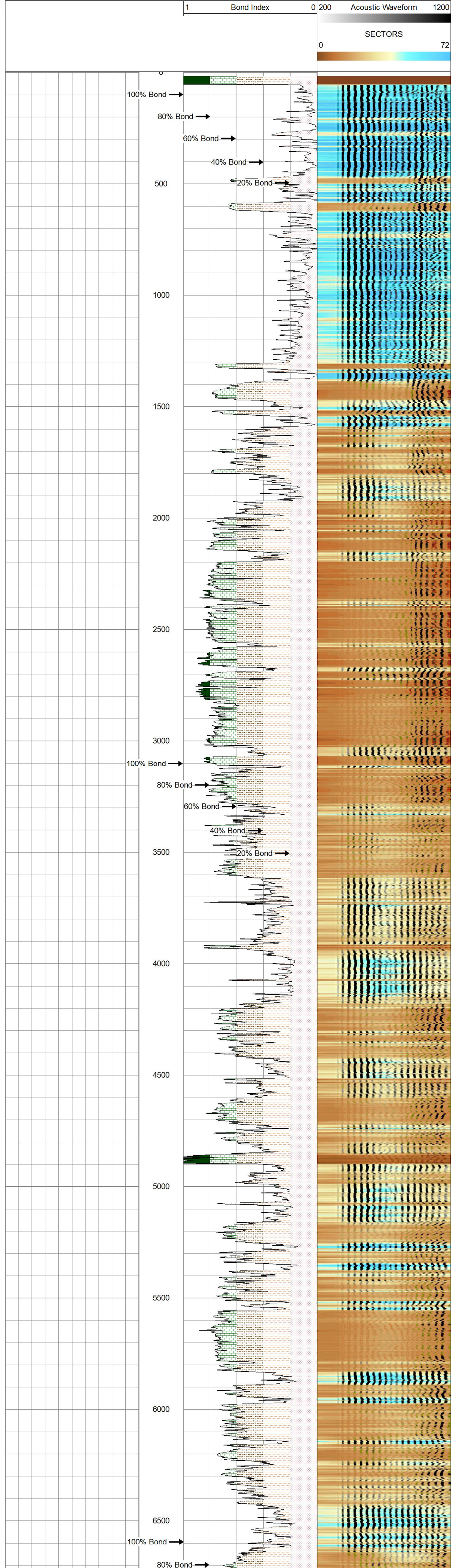
MaxAPIWall in	MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec
0.361	1.9	4.751	0	237

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MaxAPIID : Total Depth
MaxAPIWall : Perforation Flag
MINAMPL : Minimum Amplitude
MinAPIID : Surface Temperature
MINATTN : Minimum Attenuation
PPT : Predicted Pipe Time

BOND INDEX

Database File d:\2018_05_07_extraction_hergert_south_35w_15_5n_cbl\2018_05_07_extraction_hergert_south_35w_15
Dataset Pathname BOND
Presentation Format bndindx_msg-sec
Dataset Creation Mon May 07 19:02:17 2018
Charted by Depth in Feet scaled 1:3000



BOND INDEX

MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File d:\2018_05_07_extraction_hergert_south_35w_15_5n_cbl\2018_05_07_extraction_hergert_south_35w_15
Dataset Pathname MAINPASS
Presentation Format rcbl_8s
Dataset Creation Mon May 07 18:54:23 2018
Charted by Depth in Feet scaled 1:240

TT (10 usec)
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
Marker Joint

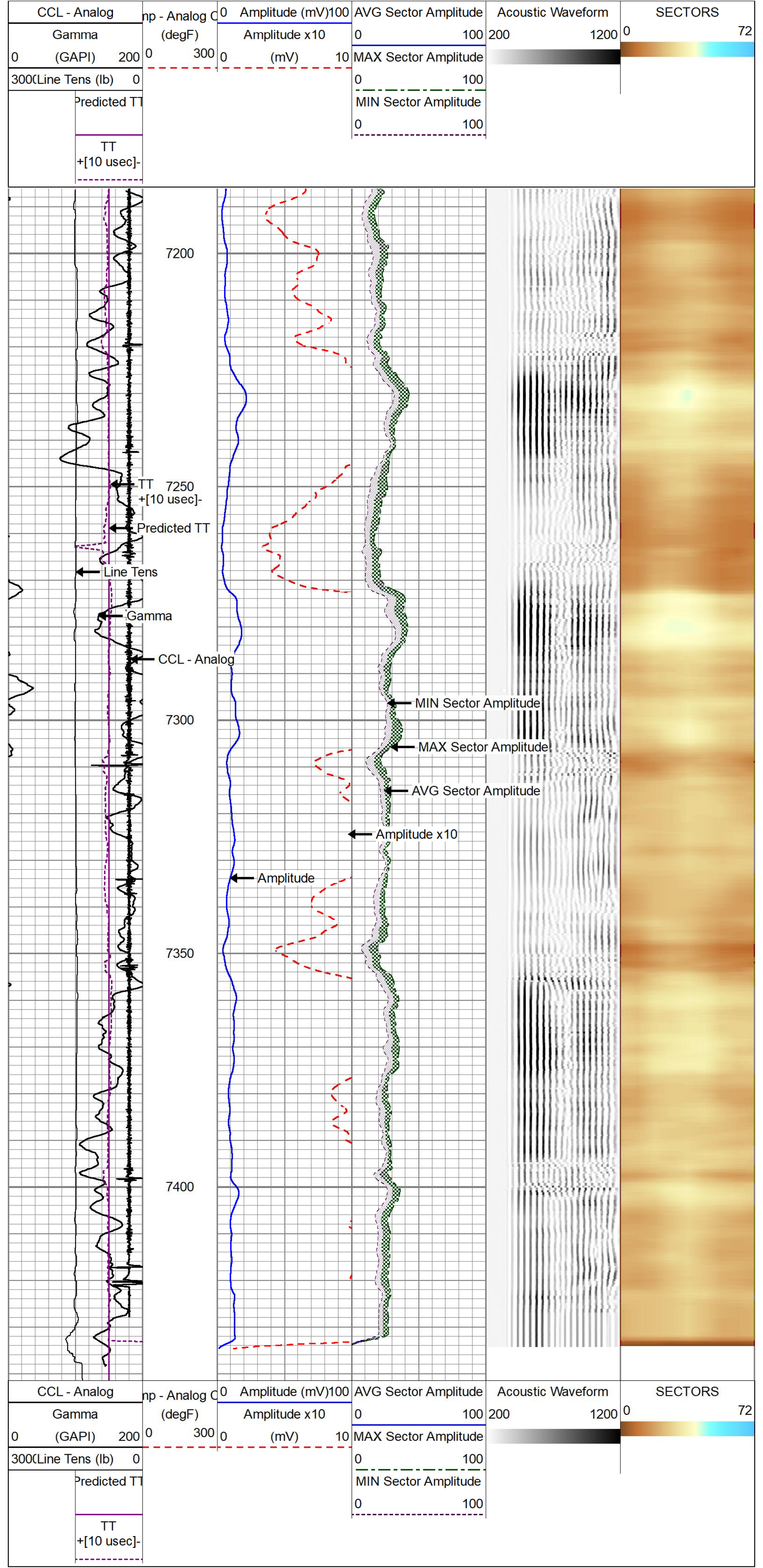
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	d:\2018_05_07_extraction_hergert_south_35w_15_5n_cbl\2018_05_07_extraction_hergert_south_35w_15
Dataset Pathname	REPEATPASS
Presentation Format	rcbl_8s
Dataset Creation	Mon May 07 19:03:28 2018
Charted by	Depth in Feet scaled 1:240



REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	d:\2018_05_07_extraction_hergert_south_35w_15_5n_cbl\2018_05_07_extraction_hergert_south_35w_15_
Dataset Pathname	MAINPASS
Dataset Creation	Mon May 07 18:54:23 2018

Gamma Ray Calibration Report

Serial Number:	ISHV2-03	
Tool Model:	2 3/4" TekCo	
Performed:	Tue Dec 13 00:23:06 2016	
Calibrator Value:	194.0	GAPI
Background Reading:	58.9	cps
Calibrator Reading:	300.8	cps
Sensitivity:	0.8020	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IT4B1-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1709.307	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	0.455	0.000	71.900	156.277	0.815
CAL	-0.005	0.510				
5'	-0.003	0.411	0.000	71.900	173.735	0.521
SUM						
S1	0.005	0.412	0.000	71.900	176.687	-0.836
S2	0.005	0.436	0.000	71.900	166.858	-0.891
S3	0.007	0.474	0.000	71.900	153.853	-1.045
S4	0.012	0.504	0.000	71.900	146.086	-1.737
S5	0.012	0.509	0.000	71.900	144.556	-1.750
S6	0.008	0.431	0.000	71.900	169.948	-1.390
S7	0.007	0.452	0.000	71.900	161.831	-1.201
S8	0.006	0.417	0.000	71.900	174.773	-0.994

Internal Reference Calibration, performed Fri Aug 25 16:20:58 2017:

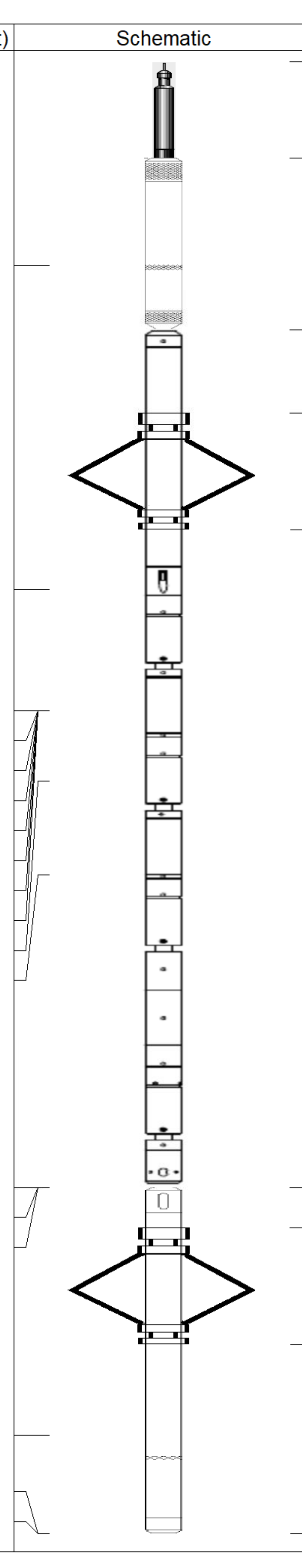
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.005	0.510	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 16:20:58 2017:

	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

Temperature Calibration Report

Serial Number:	IT4B1-01			
Tool Model:	2 3/4" RIB Analog			
Performed:	Fri Aug 26 11:07:15 2016			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	usec
High Reference:	1.00	degF	1.00	usec
Gain:	0.33			
Offset:	0.00			
Delta Spacing	1			



Sensor	Offset (ft)
CCL	13.50
TEMP	10.05
WVFS8	8.76
WVFS7	8.76
WVFS6	8.76
WVFS5	8.76
WVFS4	8.76
WVFS3	8.76
WVFS2	8.76
WVFS1	8.76
WVF3FT	8.01
WVF5FT	7.01
WVFSYNC	3.68
WVFTEMP	3.68
WVFCAL	3.68
GR	1.04
LOCTIM	0.00
UTCTIM	0.00

Description	Length (ft)	O.D. (in)	Weight (lb
CableHead-TitanConeType2	1.03	1.44	3.60
CCL_Log-2 3/4" TekCo (IPSN7-03)	1.83	2.75	33.00
Antelope-Overbody	1.25	2.75	
RBTA-2 3/4" RIB Analog (IT4B1-01)	9.13	2.75	102.00
Antelope-Overbody	1.25	2.75	
GR_Log-2 3/4" TekCo (ISHV2-03)	3.68	2.75	47.00

Dataset:	2018_05_07_extraction_hergert_south_35w_15_5n_cbl.db: field/well/run1/MAINPASS
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

Company	Extraction Oil & Gas
Well	Hergert South 35W-15-5N
Field	Wattenberg
County	Weld
State	CO
Country	U.S.A.