CEMENT BOND LOG

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Company	Extraction Oil and Gas Inc.
Well	GP Cody Fed 20E-15-4
Field	Wattenberg
County	Weld
State	Colorado

Company Extraction Oil and Gas Inc.
Well GP Cody Fed 20E-15-4
Field Wattenberg
County Weld **State** Colorado

API #: 05 123 50283
Location: NE/NE
706 FNL
1305 FEL

SEC: 20 TWP: 05N RGE: 65W

Other Services

Elevation
K.B. 4702
D.F. ----
G.L. 4673

Permanent Datum:	Ground Level	Elevation: 4673
Log Measured From:	Kelly Bushing	, 29 ft. above Permanent Datum.
Drilling Measured From:	Ground Level	
Date	26 February 2020	
Run Number	One	
Plug Back T.D. Driller	----	
Plug Back T.D. Logger	----	
Bottom Logged Interval	7220	
Top Log Interval	Surface	
Type Fluid	Water	
Density / Viscosity	----	
Max. Recorded Temp.	246	
Time Logger on Bottom	17:30	
Equipment Number	GD140	
Location	Casper	
Recorded By	GS Yarbro	
Witnessed By	Danny	Manuel Parras

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	29	----				
5 1/2	20	29	----				

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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 # : RM0220PCBW173
Your Crew Today: J. Haycock, E Rignier
Log Correlated to: Surface

Cement Data	
Date Cemented	----
Primary / Squeeze	Primary
Type / Weight	----
Main Pass Press.	Zero
Repeat Pass Press.	Zero

Comments

Estimated Top of Cement
(20 % Bond Index) at 2500 feet

Bond Index	
Index %	Est Top Depth
20 % Bond	2500
40 % Bond	3000
60 % Bond	3560
80 % Bond	3560
100 % Bond	3610

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\20200226_extraction_gp cody 20e-15-4_cbl\20200226_extraction_gp cody 20e-15-4_cbl\20200226_extraction_gp cody
Dataset field/well/run1/pass3/_vars_

Top - Bottom

BHTEMP_Src	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in	MINAMPL mV	MinAPIID in
TEMP	5.5	0.304	17	71.9	5.023	1.1	4.865
MINATTN db/ft	**PPT usec**	**Z_NA_1**	**Z_NA_2**	**Z_NA_3**			
0	242	0	0	0			

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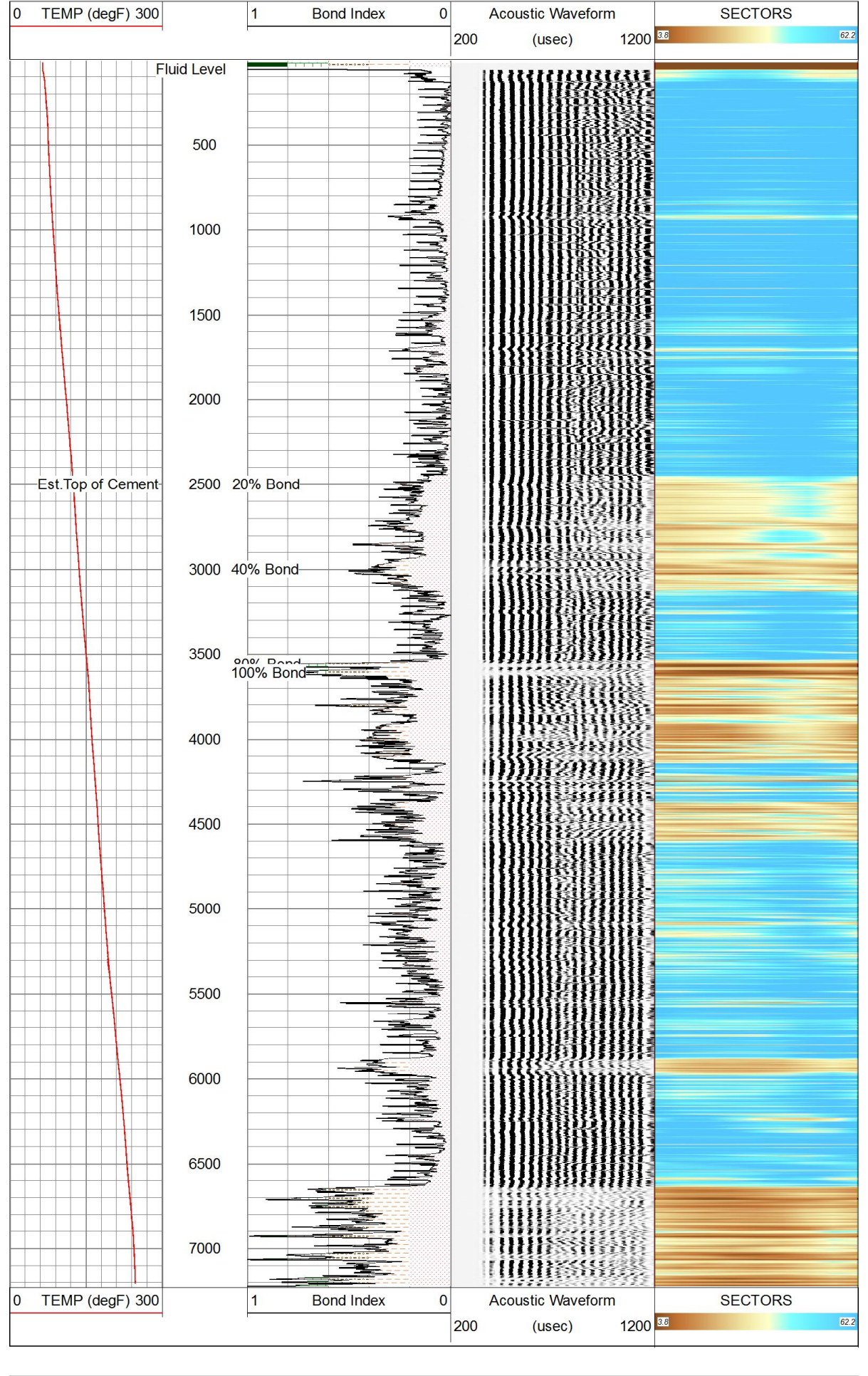
BOND INDEX

Calculated for 3000 PSI Compressive Strength Cement

Database File	20200226_extraction_gp cody 20e-15-4_cbl\20200226_extraction_gp cody 20e-15-4_cbl.db
Dataset Pathname	./././bndindx
Presentation Format	BNDIND~1
Dataset Creation	Wed Feb 26 20:35:55 2020
Charted by	Depth in Feet scaled 1:7500



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MAIN PASS - Ran with Zero PSI

5 in / 100 ft

Database File	20200226_extraction_gp cody 20e-15-4_cbl\20200226_extraction_gp cody 20e-15-4_cbl.db
Dataset Pathname	pass3
Presentation Format	rcbl_8s
Dataset Creation	Wed Feb 26 15:36:26 2020
Charted by	Depth in Feet scaled 1:240

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REPEAT PASS - Ran with Zero PSI

5 in / 100 ft

Database File	20200226_extraction_gp cody 20e-15-4_cbl\20200226_extraction_gp cody 20e-15-4_cbl.db
Dataset Pathname	pass2
Presentation Format	rcbl_8s
Dataset Creation	Wed Feb 26 15:32:05 2020
Charted by	Depth in Feet scaled 1:240

CCL
Gamma
0 (GAPI) 200
300(Line Tens (lb) 0
Predicted TT
TT
+[10 usec]-

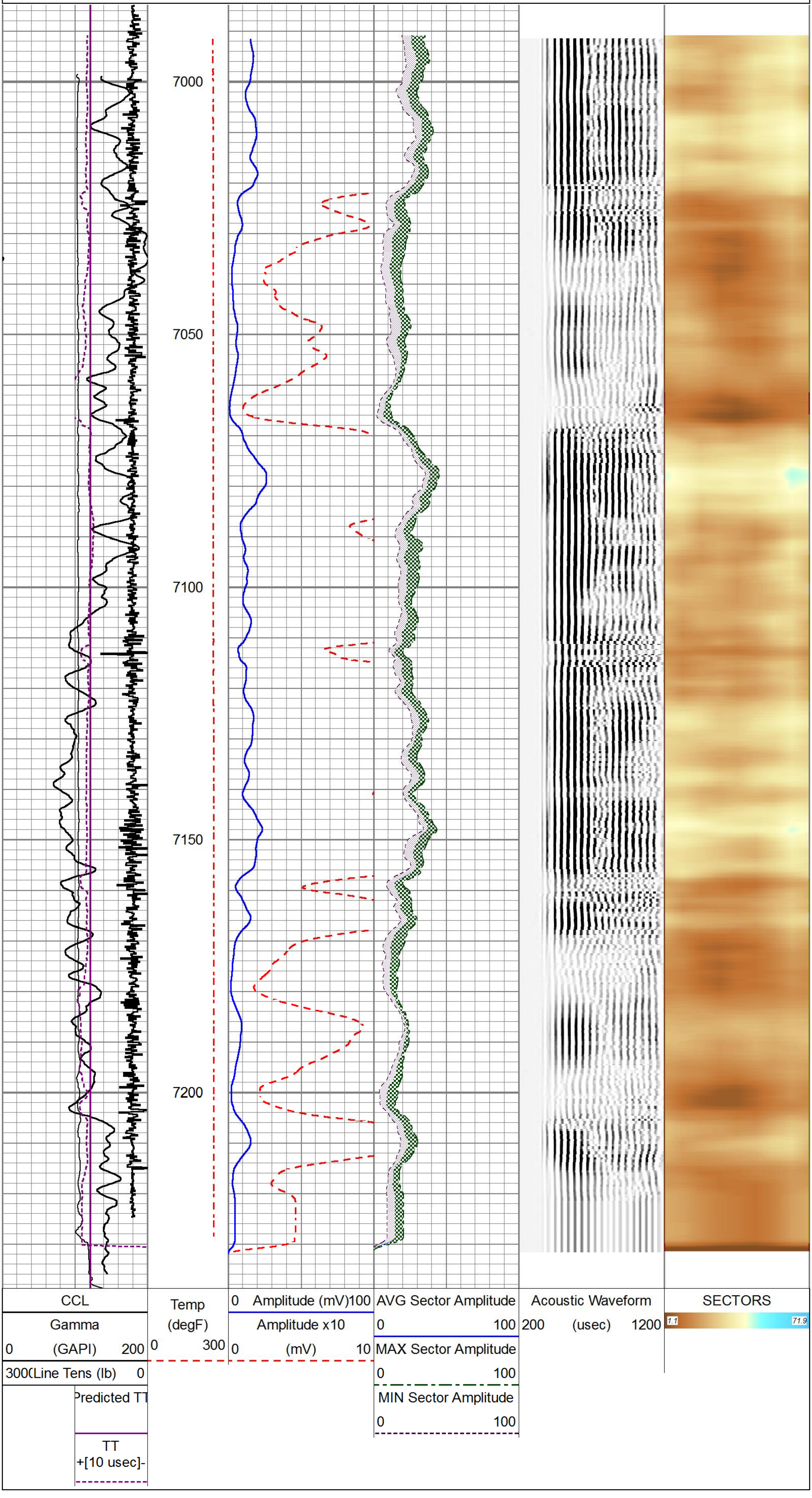
Temp
(degF)
0 300

0 Amplitude (mV) 100
Amplitude x10
0 (mV) 10

AVG Sector Amplitude
0 100
MAX Sector Amplitude
0 100
MIN Sector Amplitude
0 100

Acoustic Waveform
200 (usec) 1200

SECTORS
1.1 71.9



Calibration Report

Database File	d:\warrior\data\20200226_extraction_gp cody 20e-15-4_cbl\20200226_extraction_gp cody 20e-15-4_cbl.db
Dataset Pathname	pass3
Dataset Creation	Wed Feb 26 15:36:26 2020

Gamma Ray Calibration Report

Serial Number:	ISHV2-03	
Tool Model:	2 3/4" TekCo	
Performed:	Fri Sep 13 16:47:28 2019	
Calibrator Value:	194.0	GAPI
Background Reading:	58.0	cps
Calibrator Reading:	329.7	cps
Sensitivity:	0.7141	GAPI/cps

Segmented Cement Bond Log Calibration Report

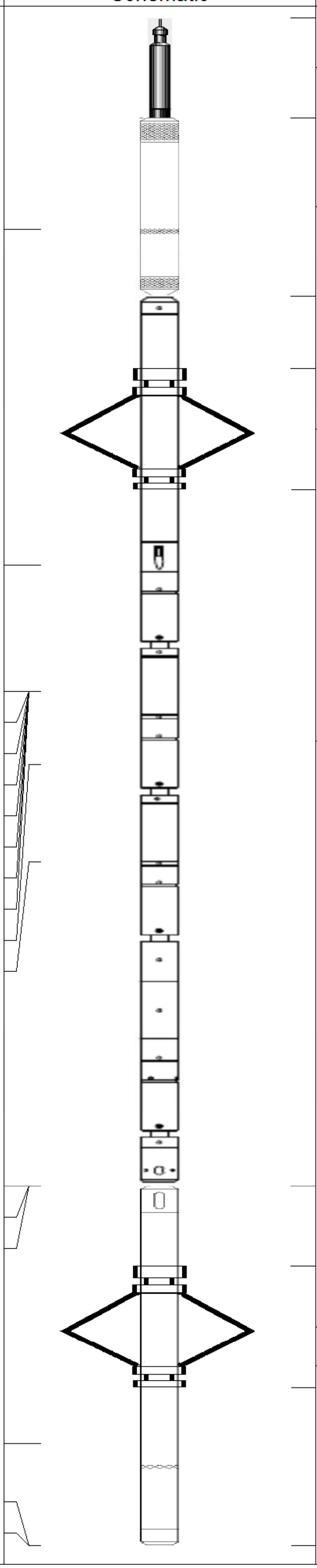
Serial Number:	ISF06-04
Tool Model:	2 3/4" RIB Analog

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.009	1.512	0.000	72.000	47.929	-0.446
CAL	-0.004	0.749				
5'	-0.001	1.996	0.000	72.000	36.048	0.031
SUM						
S1	0.033	1.728	0.000	72.000	42.470	-1.398
S2	0.029	1.522	0.000	72.000	48.225	-1.388
S3	0.032	1.457	0.000	72.000	50.542	-1.625
S4	0.042	1.474	0.000	72.000	50.301	-2.119
S5	0.050	1.536	0.000	72.000	48.441	-2.414
S6	0.050	1.680	0.000	72.000	44.171	-2.216
S7	0.045	1.909	0.000	72.000	38.635	-1.737
S8	0.037	1.864	0.000	72.000	39.410	-1.461

Temperature Calibration Report

Serial Number:	ISF06-04			
Tool Model:	2 3/4" RIB Analog			
Performed:	Tue Jan 08 14:48:09 2019			
	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)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CableHead-TitanConeType2	1.03	1.44	3.60
CCL	13.50		CCL_Log-2 3/4" TekCo (IPSN7-002)	1.83	2.75	33.00
			Antelope-Overbody	1.25	2.75	
TEMP	10.05					
WVFS8	8.76					
WVFS7	8.76					
WVFS6	8.76		RBTA-2 3/4" RIB Analog (ISF06-04)	9.13	2.75	102.00
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					
			Antelope-Overbody	1.25	2.75	
			GR_Log-2 3/4" TekCo (ISHV2-03)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	20200226_extraction_gp cody 20e-15-4_cbl.db: field/well/run1/pass3
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

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Company	Extraction Oil and Gas Inc.
Well	GP Cody Fed 20E-15-4
Field	Wattenberg
County	Weld
State	Colorado
Country	U.S.A.