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CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	Jesser 3E-10-13N
Field	Wattenberg
County	Weld
State	Colorado

Company Extraction Oil and Gas
Well Jesser 3E-10-13N
Field Wattenberg
County Weld State Colorado

API # : 05 123 45670
Location: NW/SW
2314 FSL
596 FWL
SEC: 3 TWP: 4N RGE: 68W

Other Services

Elevation
K.B. 5139
D.F. 5138
G.L. 5110

Permanent Datum: Ground Level Elevation: 5110
Log Measured From: Kelly Bushing , 29 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	16 January 2018
Run Number	ONE
Plug Back T.D. Driller	----
Plug Back T.D. Logger	----
Bottom Logged Interval	7295
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max Recorded Temp.	222
Time Logger on Bottom	14:15
Equipment Number	GD 114
Location	Casper
Recorded By	GS Yarbro
Witnessed By	Mr. Siegel Mr. Holgate

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	29	1500				
5 1/2	20	29	11788				

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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 # : RM0118PCBW165
Your Crew Today: KEnnicker, Adams
Log Correlated to: Surface

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

Bond Index

Index %	Est Top Depth
20 % Bond	102
40 % Bond	102
60 % Bond	127
80 % Bond	1111
100 % Bond	1427

Comments

Estimated Top of Cement
(40% Bond Index) @ 102'

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\20180116_extraction_jesser 3e-10-13n_cbl\20180116_extraction_jesser 3e
Dataset field/well/run1/pass3.2/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	100	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	0.8	239			

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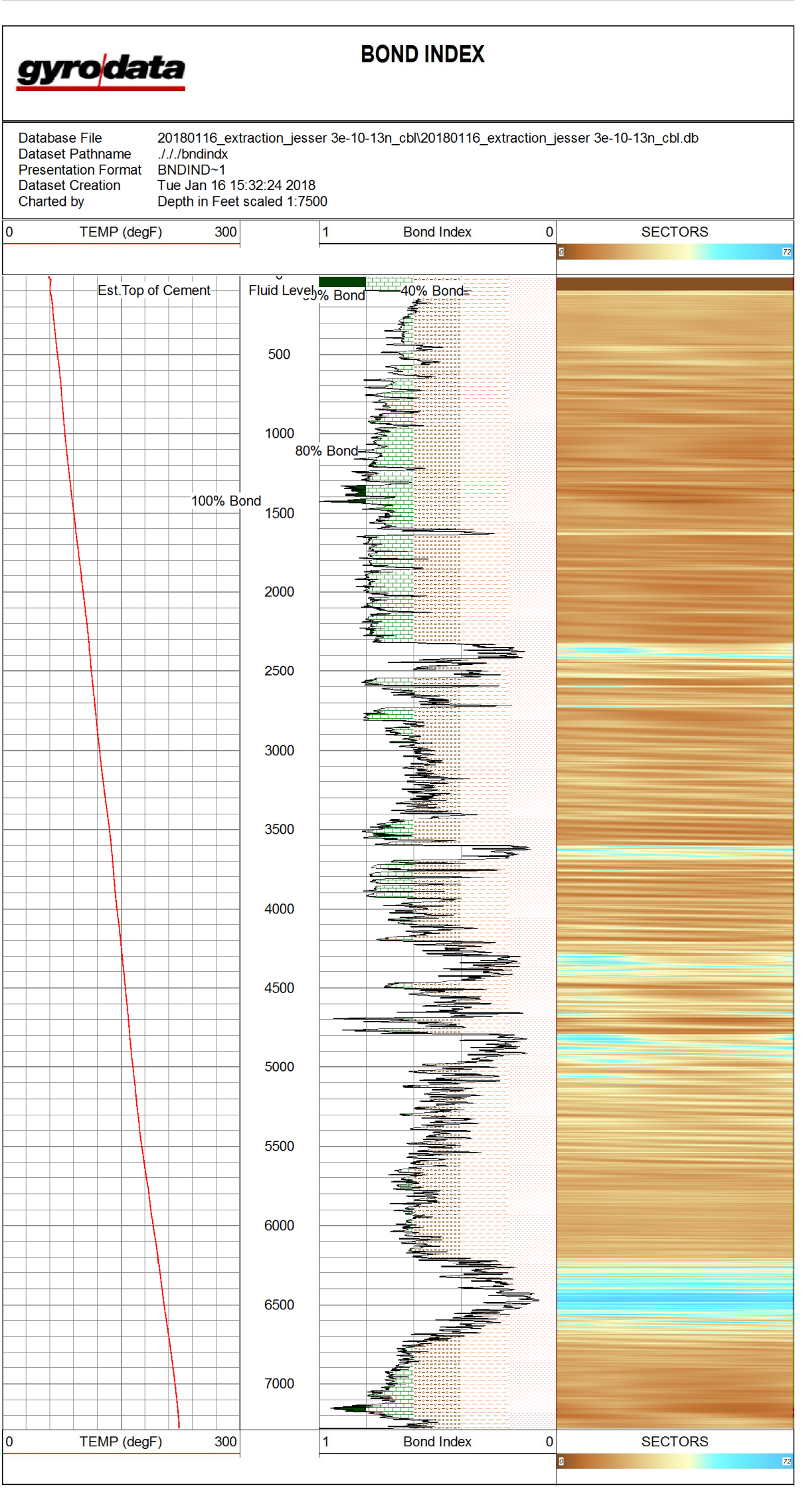
BOND INDEX

Database File 20180116_extraction_jesser 3e-10-13n_cbl\20180116_extraction_jesser 3e-10-13n_cbl.db
Dataset Pathname ./././bndindx
Presentation Format BNDIND~1
Dataset Creation Tue Jan 16 15:32:24 2018
Charted by Depth in Feet scaled 1:7500



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MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File 20180116_extraction_jesser 3e-10-13n_cbl\20180116_extraction_jesser 3e-10-13n_cbl.db
Dataset Pathname pass3.2
Presentation Format rcbl_8s
Dataset Creation Tue Jan 16 15:30:37 2018
Charted by Depth in Feet scaled 1:240

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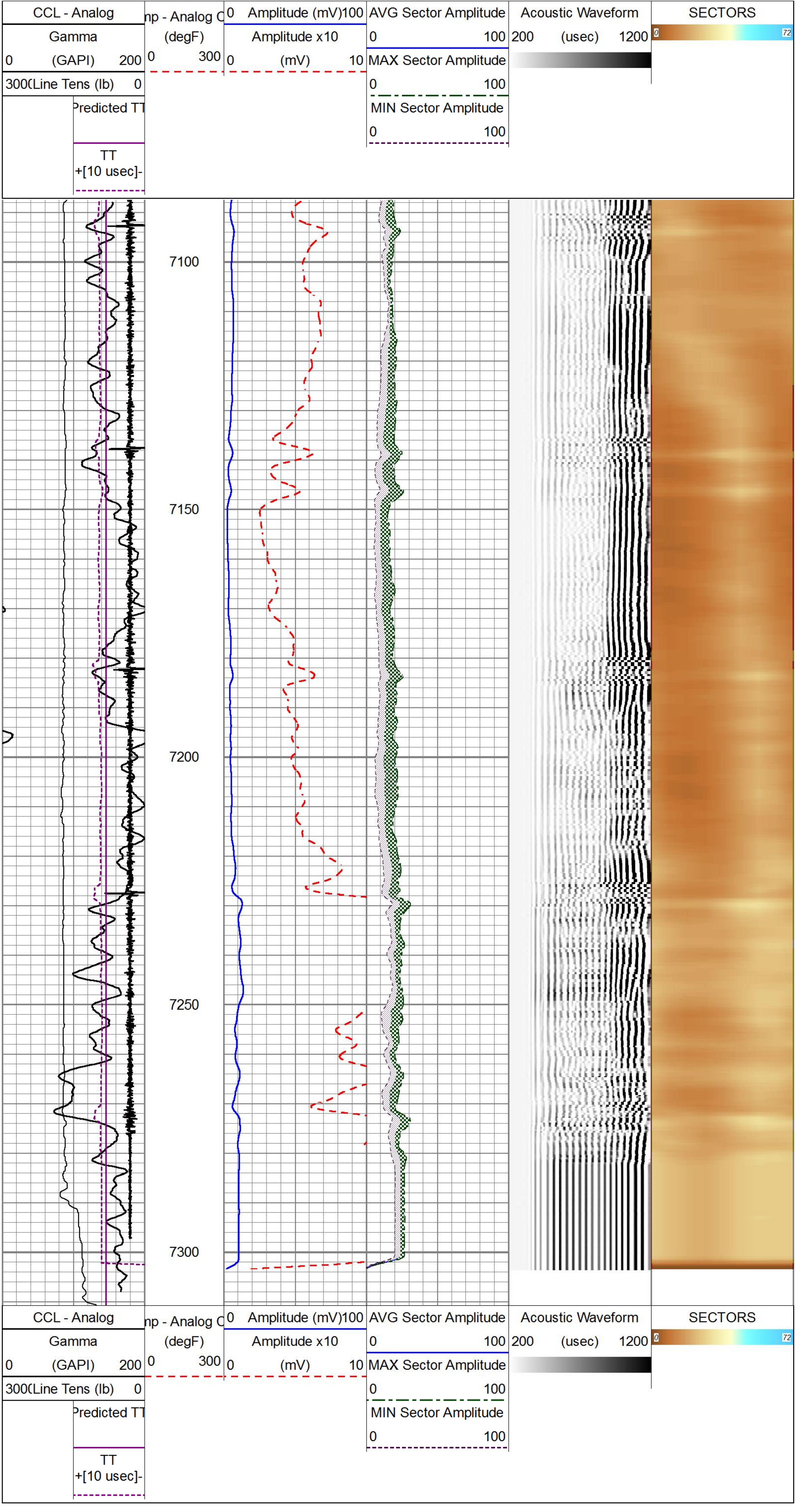
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	20180116_extraction_jesser 3e-10-13n_cbl\20180116_extraction_jesser 3e-10-13n_cbl.db
Dataset Pathname	pass2.1
Presentation Format	rcbl_8s

Dataset Creation Tue Jan 16 15:31:59 2018
Charted by Depth in Feet scaled 1:240



Calibration Report

Database File	d:\warrior\data\20180116_extraction_jesser 3e-10-13n_cbl\20180116_extraction_jesser 3e-10-13n_cbl.db
Dataset Pathname	pass3.2
Dataset Creation	Tue Jan 16 15:30:37 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:	IPPO2-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	0.000	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.442	0.000	72.000	49.946	-0.022
CAL	0.000	0.750				
5'	-0.008	1.787	0.000	72.000	40.110	0.305
SUM						
S1	0.016	1.715	0.000	72.000	42.366	-0.675
S2	0.014	1.707	0.000	72.000	42.523	-0.590
S3	0.012	1.768	0.000	72.000	41.004	-0.488
S4	0.011	1.692	0.000	72.000	42.833	-0.463
S5	0.012	1.628	0.000	72.000	44.546	-0.529
S6	0.013	1.592	0.000	72.000	45.609	-0.612
S7	0.015	1.661	0.000	72.000	43.751	-0.663
S8	0.016	1.699	0.000	72.000	42.777	-0.688

Internal Reference Calibration, performed Fri Aug 25 16:15:12 2017:

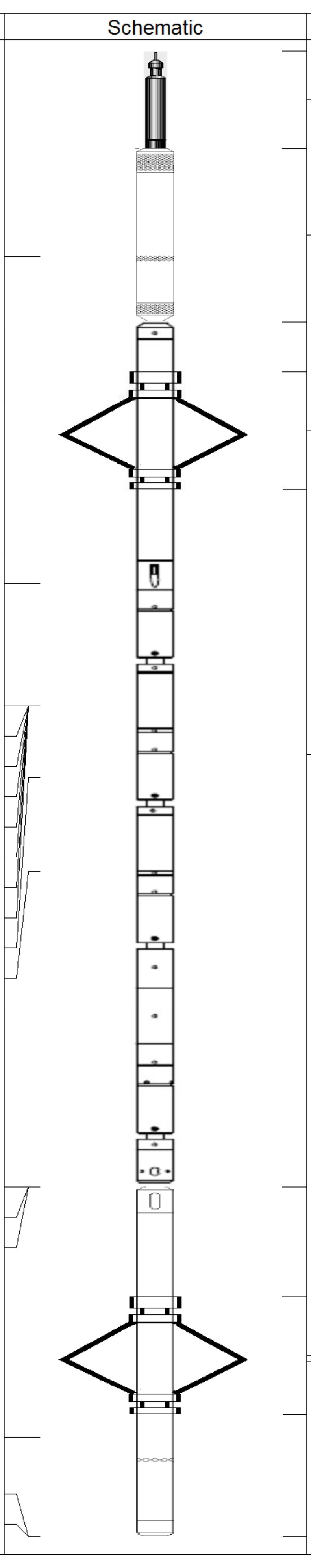
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.750	0.000	0.750	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 16:15:12 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:	IPPO2-01			
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)	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 (IS2T1-09)	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 (IPPO2-01)	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:	20180116_extraction_jesser 3e-10-13n_cbl.db: field/well/run1/pass3.2
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

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Company	**Extraction Oil and Gas**
Well	**Jesser 3E-10-13N**
Field	**Wattenberg**
County	**Weld**
State	**Colorado**
Country	**U.S.A.**