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Cement Bond Log

Company	Extraction Oil and Gas
Well	CS Sherwood 1-1-13
Field	Wattenberg
County	Weld
State	Colorado

Company Extraction Oil and Gas
Well CS Sherwood 1-1-13
Field Wattenberg
County Weld **State** Colorado

API # : 05-123-42911
Location: SE/SW
340 FSL
1968 FEL

Other Services

SEC: 36 TWP: 6N RGE: 66W

Elevation
K.B. 4680
D.F. 4679
G.L. 4665

Permanent Datum: Ground Level Elevation: 4665
Log Measured From: Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	22 Sept 2017
Run Number	One
Plug Back T.D. Driller	----
Plug Back T.D. Logger	-----
Bottom Logged Interval	7150
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max. Recorded Temp.	241
Time Logger on Bottom	12:00 Noon
Equipment Number	GD114
Location	Casper
Recorded By	GS Yarbro
Witnessed By	Mr. Siegel

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	0	1500				
5 1/2	20	0	18535				

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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 # : RM0917WLOW637
Your Crew Today: Baker, Graham
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	178
40 % Bond	178
60 % Bond	2386
80 % Bond	6748
100 % Bond	6778

Comments

Estimated Top of Cement
(40% Bond Index) @ 178

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\2017-09-22_extraction_cssherwood 1-1-13_cbl\2017-09-22_extraction_css
Dataset field/well/run1/pass4.3/_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	239

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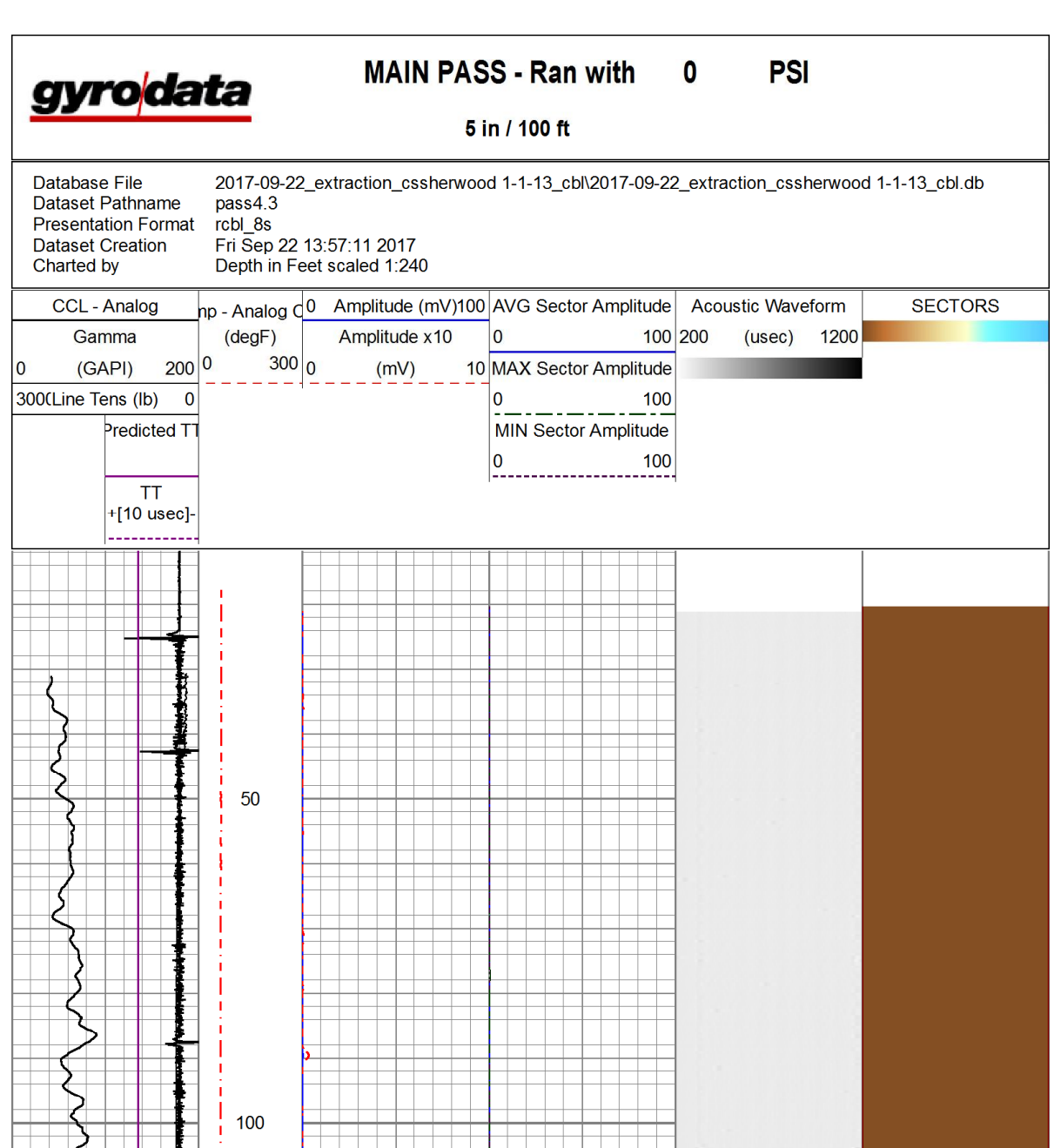
BOND INDEX

Database File 2017-09-22_extraction_cssherwood 1-1-13_cbl\2017-09-22_extraction_cssherwood 1-1-13_cbl.db
Dataset Pathname ./././bndindx
Presentation Format BONDIN~2
Dataset Creation Fri Sep 22 14:01:03 2017
Charted by Depth in Feet scaled 1:7500



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MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File 2017-09-22_extraction_cssherwood 1-1-13_cbl\2017-09-22_extraction_cssherwood 1-1-13_cbl.db
Dataset Pathname pass4.3
Presentation Format rcbl_8s
Dataset Creation Fri Sep 22 13:57:11 2017
Charted by Depth in Feet scaled 1:240

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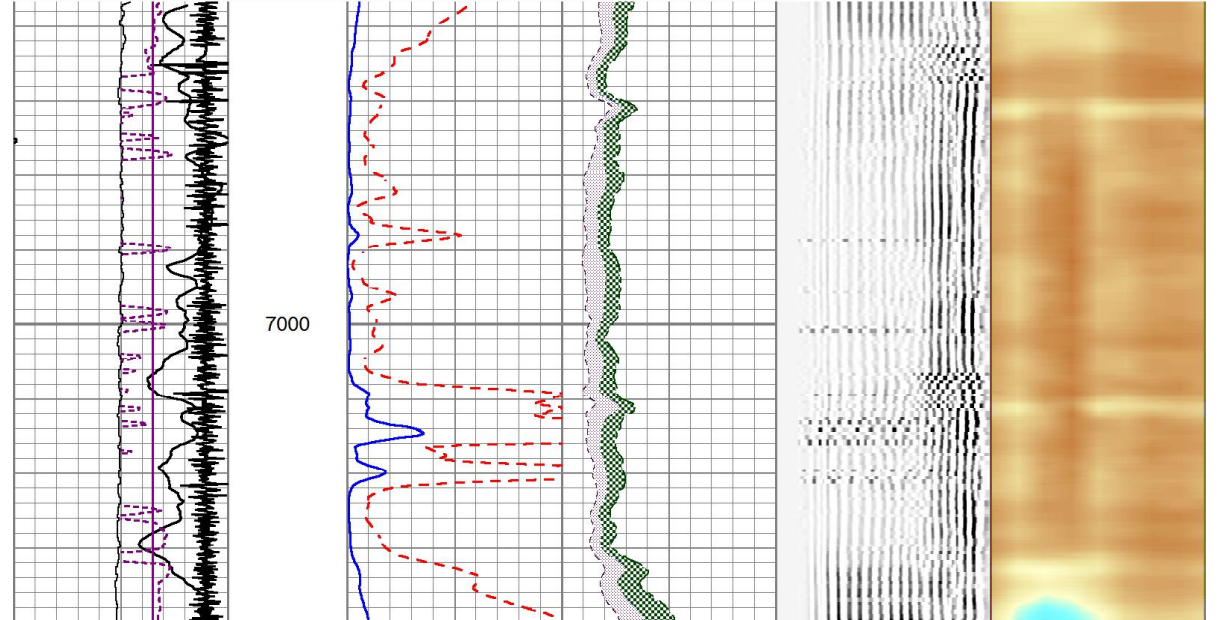
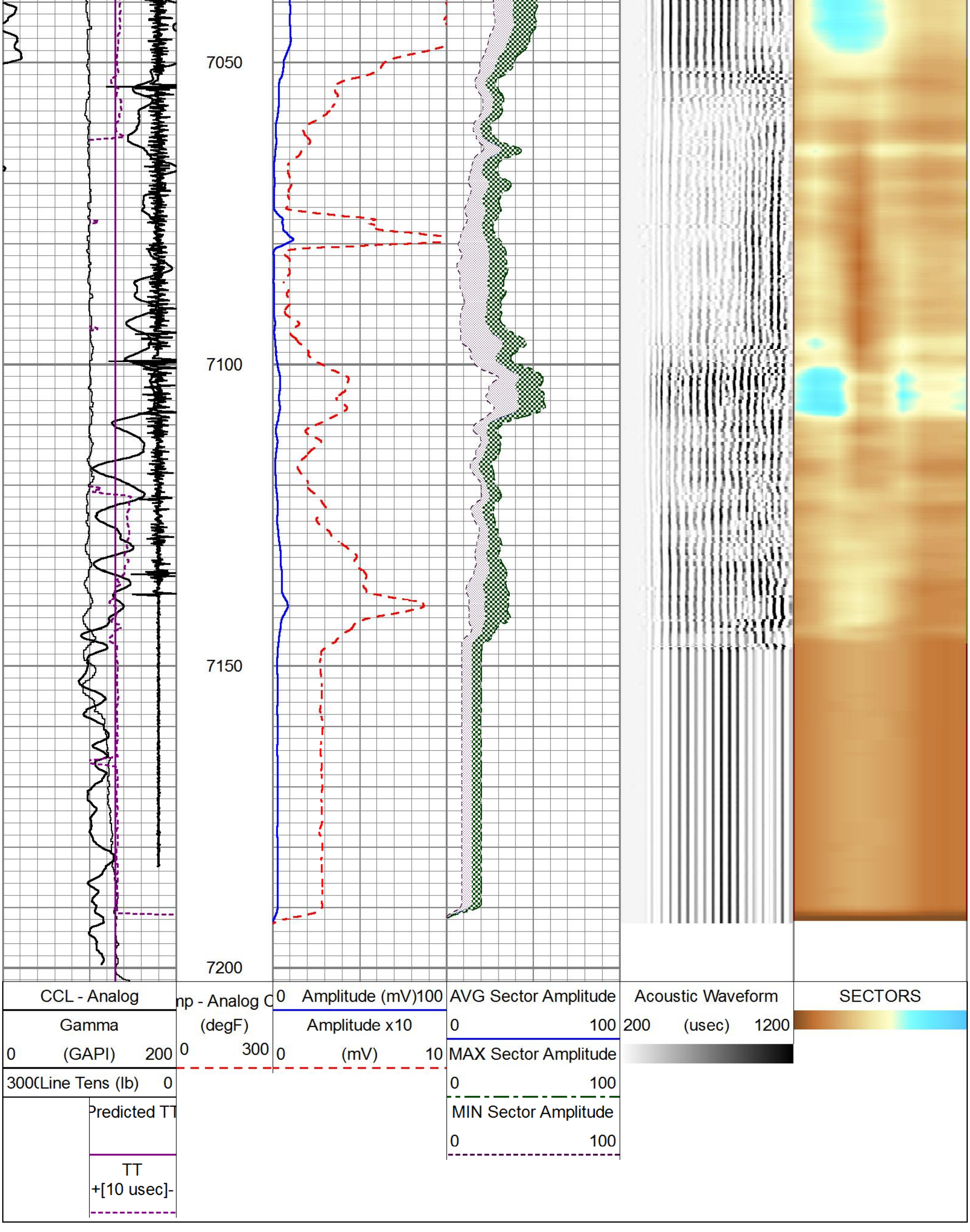
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2017-09-22_extraction_cssherwood 1-1-13_cbl\2017-09-22_extraction_cssherwood 1-1-13_cbl.db
Dataset Pathname	pass3.1
Presentation Format	rcbl_8s
Dataset Creation	Fri Sep 22 13:59:59 2017
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	d:\warrior\data\2017-09-22_extraction_cssherwood 1-1-13_cbl\2017-09-22_extraction_cssherwood 1-1-13_c
Dataset Pathname	pass4.3
Dataset Creation	Fri Sep 22 13:57:11 2017

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'	0.002	1.281	0.000	72.000	56.304	-0.129
CAL	0.000	0.750				
5'	-0.003	1.898	0.000	72.000	37.876	0.122
SUM						
S1	0.019	1.175	0.000	50.000	43.244	-0.813
S2	0.027	1.017	0.000	50.000	50.524	-1.388
S3	0.036	0.986	0.000	50.000	52.587	-1.867
S4	0.033	0.923	0.000	50.000	56.193	-1.864
S5	0.031	1.002	0.000	50.000	51.494	-1.602
S6	0.022	1.140	0.000	50.000	44.725	-1.005
S7	0.017	1.330	0.000	50.000	38.070	-0.636
S8	0.020	1.295	0.000	50.000	39.214	-0.800

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:

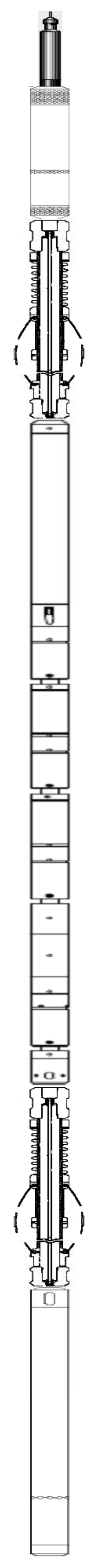
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

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)
CCL	18.96
TEMP	12.78
WVFS8	11.49
WVFS7	11.49
WVFS6	11.49
WVFS5	11.49
WVFS4	11.49
WVFS3	11.49
WVFS2	11.49
WVFS1	11.49
WVF3FT	10.74
WVF5FT	9.74
WVFSYNC	6.41
WVFTEMP	6.41
WVFCAL	6.41
GR	1.04
LOCTIM	0.00
UTCTIM	0.00

Schematic



Description	Length (ft)	O.D. (in)	Weight (lb
CableHead-TitanConeType2	1.03	1.44	3.60
CCL_Log-2 3/4" TekCo (IPSN7-03) 450 Deg. CCL	1.83	2.75	33.00
TekCo-275_Tekco 2 3/4" Tekco Adjustable SPRING Centralizer	2.73	2.75	25.00
RBTA-2 3/4" RIB Analog (IPPO2-01) Radial Incremented Bond Tool with Temp	9.13	2.75	102.00
TekCo-275_Tekco 2 3/4" Tekco Adjustable SPRING Centralizer	2.73	2.75	25.00
GR_Log-2 3/4" TekCo (ISHV2-03) 400 Deg. Gamma Ray	3.68	2.75	47.00

Dataset:	2017-09-22_extraction_cssherwood 1-1-13_cbl.db: field/well/run1/pass4.3
Total length:	21.13 ft
Total weight:	235.60 lb
O.D.:	2.75 in

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Company	**Extraction Oil and Gas**		
Well	**CS Sherwood 1-1-13**		
Field	**Wattenberg**		
County	**Weld**		
State	**Colorado**	**Country**	**U.S.A.**