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CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	CS-Sunrise C1-5-5
Field	Wattenberg
County	Weld
State	Colorado

Company Extraction Oil and Gas
Well CS-Sunrise C1-5-5
Field Wattenberg
County Weld **State** Colorado

API #: 05-123-46045
Location: SW/SE
250 FSL
1686 FEL

Other Services

SEC: 32 TWP: 6N RGE: 65W

Elevation
K.B. 4666
D.F. 4665
G.L. 4641

Permanent Datum:	Ground Level	Elevation: 4641
Log Measured From:	Kelly Bushing	, 25 ft. above Permanent Datum.
Drilling Measured From:	Kelly Bushing	
Date	26 March 2018	
Run Number	One	
Plug Back T.D. Driller	----	
Plug Back T.D. Logger	----	
Bottom Logged Interval	7206	
Top Log Interval	Surface	
Type Fluid	Water	
Density / Viscosity	----	
Max. Recorded Temp.	251	
Time Logger on Bottom	1700	
Equipment Number	GD112	
Location	Casper	
Recorded By	GS Yarbro	
Witnessed By	Hackford/Stephens	

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	25	----				
5 1/2	20	25	----				

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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 # : RM0318PCBW366
Your Crew Today: Kennicker, Staker, Tad-y
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	791
40 % Bond	1450
60 % Bond	1450
80 % Bond	2692
100 % Bond	2692

Comments

Estimated Top of Cement (20% Bond Index) @ 791'

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\20180326_extraction_wssunrise c1-5-5_cbl\20180326_extraction_wssunris
Dataset field/well/run1/pass6.1/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEID in	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV
TEMP	8.5	100	4.778	5.5	0.361	20	71.9

MaxAPIID in	MaxAPIWall in	MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec
4.923	0.361	1.9	4.751	0	237

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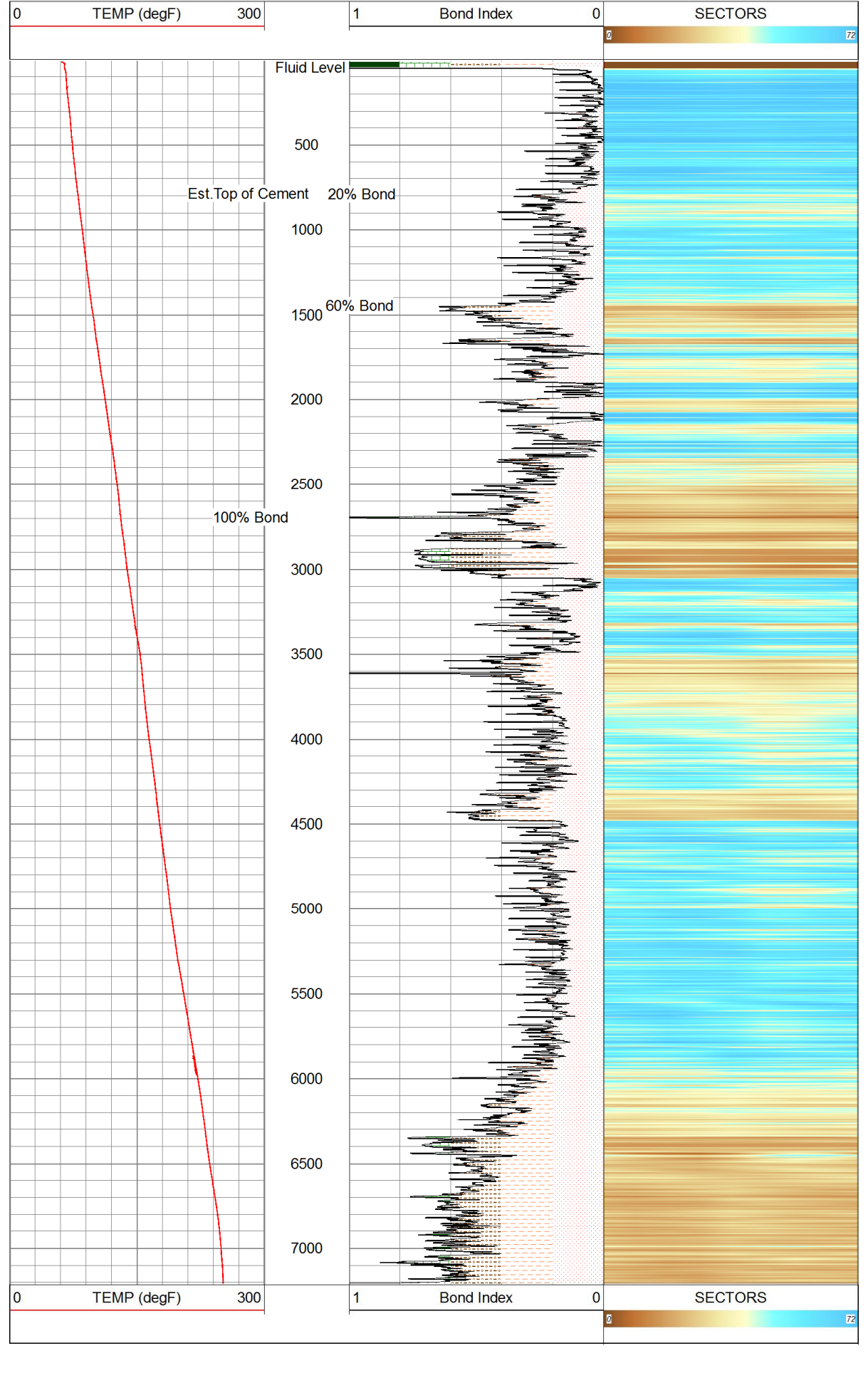
BOND INDEX

Database File 20180326_extraction_wssunrise c1-5-5_cbl\20180326_extraction_wssunrise c1-5-5_cbl.db
Dataset Pathname bndindx
Presentation Format BNDIND~1
Dataset Creation Mon Mar 26 18:08:30 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 20180326_extraction_wssunrise c1-5-5_cbl\20180326_extraction_wssunrise c1-5-5_cbl.db
Dataset Pathname pass6.1
Presentation Format rcbl_8s
Dataset Creation Mon Mar 26 18:05:48 2018
Charted by Depth in Feet scaled 1:240

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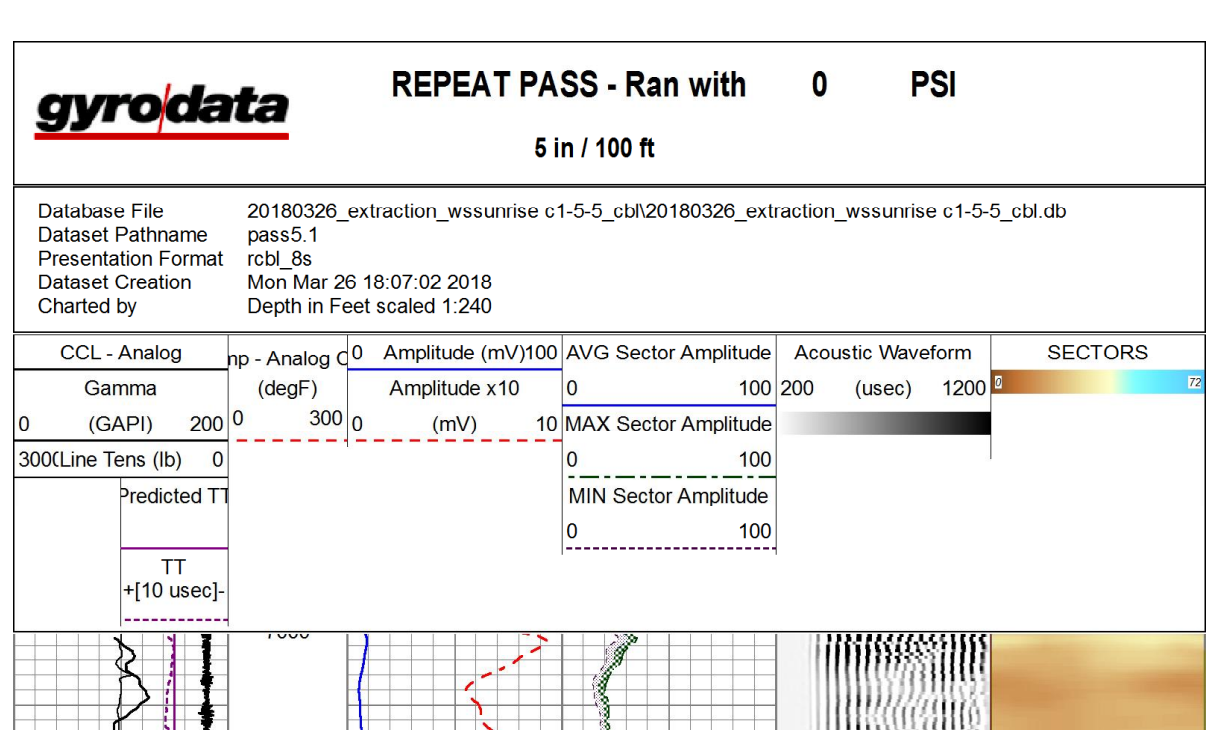
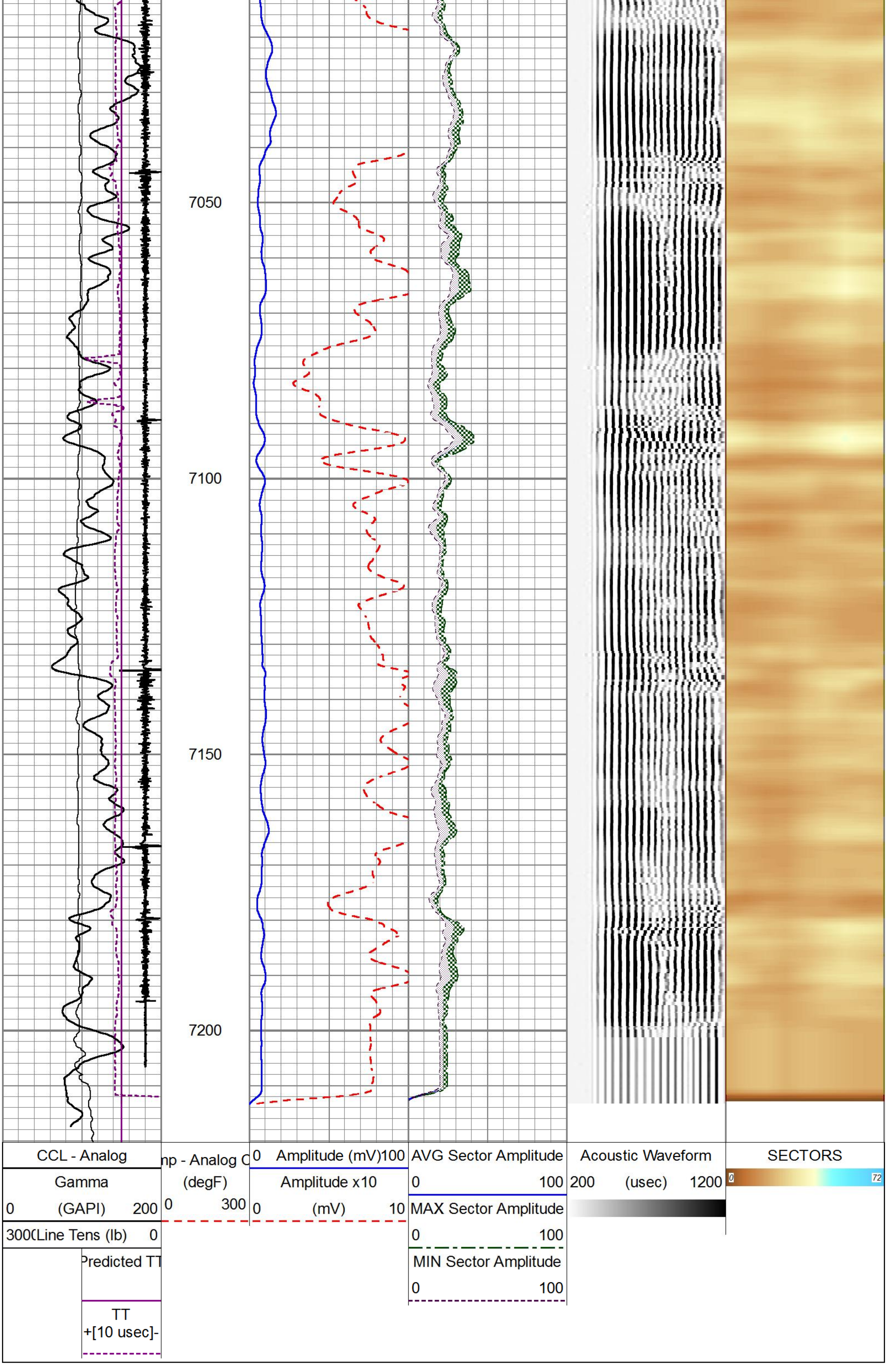
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	20180326_extraction_wssunrise c1-5-5_cbl\20180326_extraction_wssunrise c1-5-5_cbl.db
Dataset Pathname	pass5.1
Presentation Format	rcbl_8s
Dataset Creation	Mon Mar 26 18:07:02 2018
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	d:\warrior\data\20180326_extraction_wssunrise c1-5-5_cbl\20180326_extraction_wssunrise c1-5-5_cbl.db
Dataset Pathname	pass6.1
Dataset Creation	Mon Mar 26 18:05:48 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:	5.500	in
Calibration Depth:	0.000	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	1.450	0.000	71.921	49.586	0.036
CAL	0.000	0.290				
5'	0.002	1.916	0.000	71.921	37.574	-0.060
SUM						
S1	0.015	1.131	0.000	72.000	64.525	-0.997
S2	0.028	1.226	0.000	72.000	60.107	-1.663
S3	0.034	1.509	0.000	72.000	48.834	-1.668
S4	0.039	1.881	0.000	72.000	39.083	-1.513
S5	0.043	2.035	0.000	72.000	36.142	-1.548
S6	0.029	1.647	0.000	72.000	44.490	-1.278
S7	0.018	1.389	0.000	72.000	52.497	-0.944
S8	0.012	1.178	0.000	72.000	61.766	-0.759

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	0.290	0.000	0.290	1.000	0.000

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

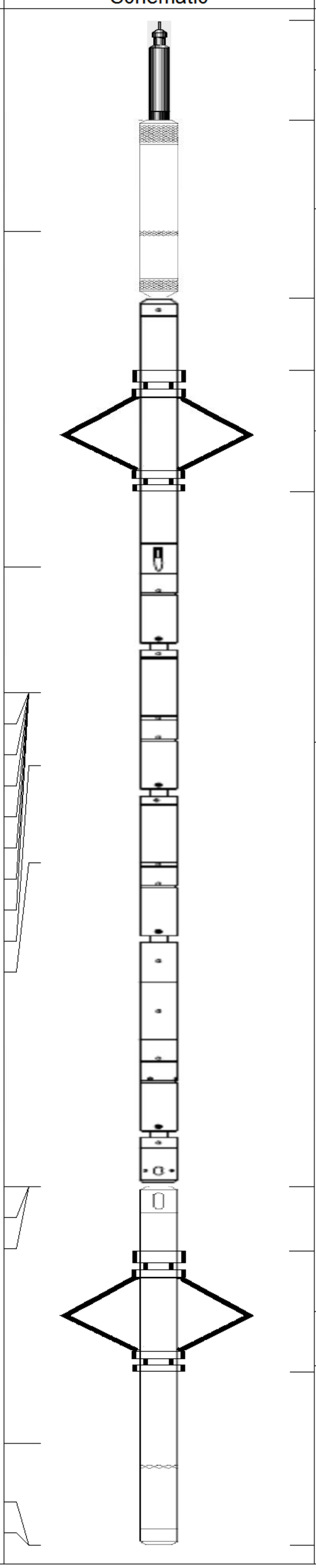
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

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

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)	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:	20180326_extraction_wssunrise c1-5-5_cbl.db: field/well/run1/pass6.1
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	CS-Sunrise C1-5-5
Field	Wattenberg
County	Weld
State	Colorado
Country	U.S.A.