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CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	Jamaso 4-65 5-6-10
Field	Wildcat
County	Arapahoe
State	CO

Company Extraction Oil and Gas
Well Jamaso 4-65 5-6-10
Field Wildcat
County Arapahoe **State** CO

API # : 05-005-07375
Location: 2449' FNL & 1211' FWL
Lat: 39.733281
Long: -104.674002

SEC: 4 TWP: 4S RGE: 65W

Other Services

Elevation
K.B. 5616'
D.F. -----
G.L. 5591'

Permanent Datum: Ground Level Elevation: 5591'
Log Measured From: Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	12 Aug 2019	
Run Number	One	
Plug Back T.D. Driller	-----	
Plug Back T.D. Logger	-----	
Bottom Logged Interval	8393'	
Top Log Interval	Surface	
Type Fluid	-----	
Density / Viscosity	-----	
Max. Recorded Temp.	242°F	
Time Logger on Bottom	10:00	
Equipment Number	GD 170	
Location	Casper, WY	
Recorded By	J. Baker	
Witnessed By	Colby	

Casing Record

Size	Weight	From	To
9 5/8"	36#	Surface	2500'
5 1/2"	20#	Surface	18,230'

Tubing Record

Size	Weight	From	To

<<< Fold Here >>>

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 # : RM0819PCBW562
Your Crew Today: B. Kennicker, T. Lev
Log Correlated to:

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	150'
40 % Bond	240'
60 % Bond	329'
80 % Bond	2647'
100 % Bond	2665'

Comments

Estimated Top of Cement
(20 % Bond Index) at 150 feet

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\2019_08_12_extraction_jamaso_4_65_5_6_10_cbl\2019_08_12_extractior
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	242	5.5	0.361	20	71.9	4.923

MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec	TDEPTH ft
2.1	4.751	0	236	0

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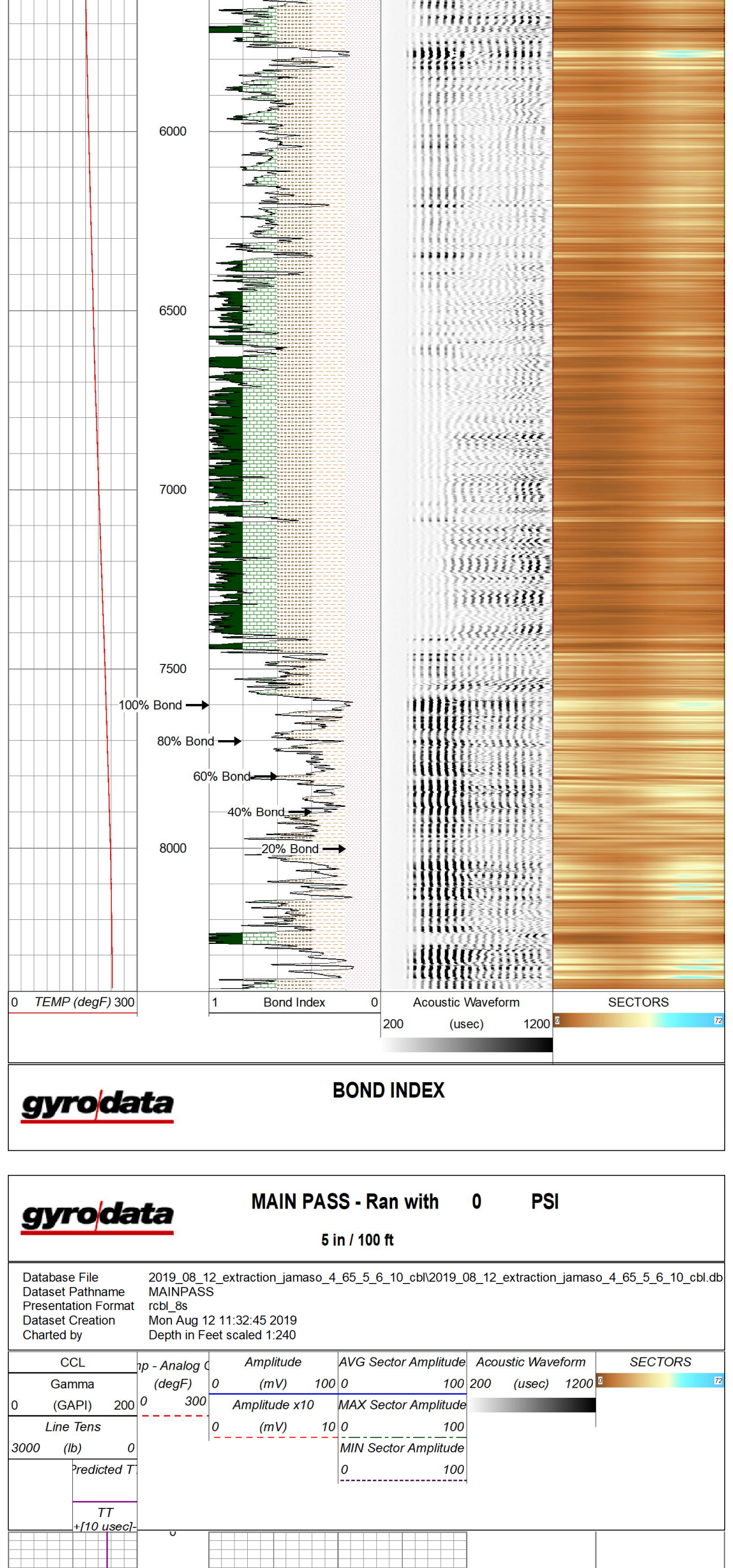
BOND INDEX

Database File 2019_08_12_extraction_jamaso_4_65_5_6_10_cbl\2019_08_12_extraction_jamaso_4_65_5_6_10_cbl.db
Dataset Pathname BOND
Presentation Format bndindx_msg-sec
Dataset Creation Mon Aug 12 11:37:08 2019
Charted by Depth in Feet scaled 1:3000



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BOND INDEX

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MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File 2019_08_12_extraction_jamaso_4_65_5_6_10_cbl\2019_08_12_extraction_jamaso_4_65_5_6_10_cbl.db
Dataset Pathname MAINPASS
Presentation Format rcbl_8s
Dataset Creation Mon Aug 12 11:32:45 2019
Charted by Depth in Feet scaled 1:240

2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL
3950
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850
4900
4950
5000
5050
5100
5150
5200
5250
5300
5350
5400
5450
5500
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5600
5650
5700
5750
5800
5850
5900
5950
6000
6050
6100
6150
6200
6250
6300
6350
6400
6450
6500
6550
6600
6650
6700
6750
6800
6850

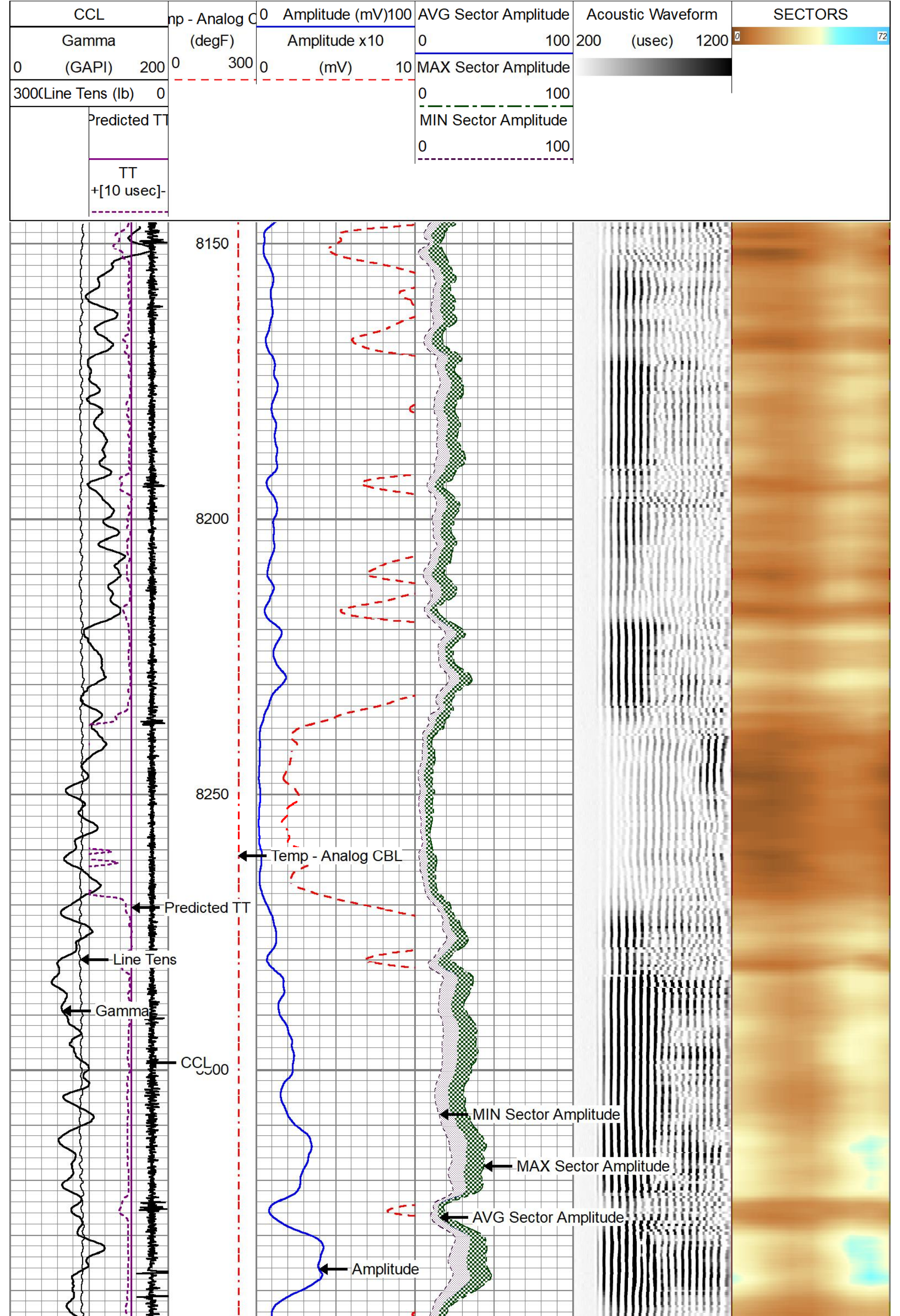
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2019_08_12_extraction_jamaso_4_65_5_6_10_cbl\2019_08_12_extraction_jamaso_4_65_5_6_10_cbl.db
Dataset Pathname	REPEATPASS
Presentation Format	rcbl_8s
Dataset Creation	Mon Aug 12 11:39:06 2019
Charted by	Depth in Feet scaled 1:240



REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	d:\warrior\data\2019_08_12_extraction_jamaso_4_65_5_6_10_cbl\2019_08_12_extraction_jamaso_4_65_5
Dataset Pathname	MAINPASS
Dataset Creation	Mon Aug 12 11:32:45 2019

Gamma Ray Calibration Report

Serial Number:	IXEM9-02	
Tool Model:	2 3/4" TekCo	
Performed:	Thu Apr 25 11:11:34 2019	
Calibrator Value:	194.0	GAPI
Background Reading:	66.1	cps
Calibrator Reading:	391.4	cps
Sensitivity:	0.5963	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IRB34-03	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	122.740	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.013	0.918	0.000	71.921	77.243	0.984
CAL	-0.004	0.746				
5'	0.002	0.859	0.000	71.921	83.893	-0.152
SUM						
S1	0.053	0.922	0.000	72.000	82.794	-4.370
S2	0.050	1.025	0.000	72.000	73.886	-3.701
S3	0.052	1.177	0.000	72.000	63.996	-3.352
S4	0.053	1.387	0.000	72.000	53.981	-2.850
S5	0.051	1.465	0.000	72.000	50.922	-2.592
S6	0.046	1.264	0.000	72.000	59.114	-2.699
S7	0.051	1.060	0.000	72.000	71.347	-3.635
S8	0.047	0.951	0.000	72.000	79.646	-3.764

Internal Reference Calibration, performed (Not Performed):

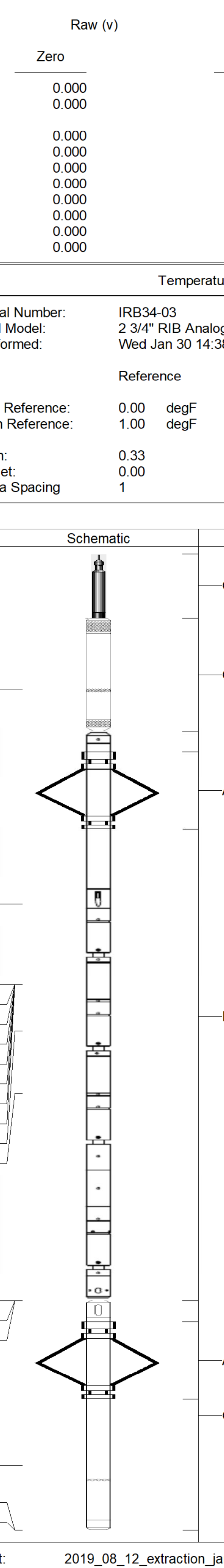
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.746	1.000	0.000

Air Zero Calibration, performed (Not Performed):

	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:	IRB34-03			
Tool Model:	2 3/4" RIB Analog			
Performed:	Wed Jan 30 14:38:18 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 (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 (IRB34-03)	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 (IXEM9-02)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	2019_08_12_extraction_jamaso_4_65_5_6_10_cbl.db: field/well/run1/MAINPASS
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

Company	Extraction Oil and Gas		
Well	Jamaso 4-65 5-6-10		
Field	Wildcat		
County	Arapahoe		
State	CO	**Country**	U.S.A.