gyrodata

CEMENT BOND LOG

Company	Clear Creek Resource Partners
Well	Salt Ranch Fee 201-1015H
Field	-----
County	Weld
State	CO

Company Clear Creek Resource Partners
Well Salt Ranch Fee 201-1015H
Field -----
County Weld State CO

API #: 05-123-46644
Location: 358 FNL & 578' FEL
SEC: 10 TWP: 11N RGE: 64W

Other Services: 4.5" Gauge Ring

Elevation: K.B. 5456', D.F. -----, G.L. 5434'

Permanent Datum: Ground Level — Elevation: 5434'
Log Measured From: Kelly Bushing, 22 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	20 Jun 2019
Run Number	One
Plug Back T.D. Driller	-----
Plug Back T.D. Logger	-----
Bottom Logged Interval	8124'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max. Recorded Temp.	236°F
Time Logger on Bottom	17:00
Equipment Number	GD 114
Location	Casper, WY
Recorded By	J. Baker
Witnessed By	Jae

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	22	2208				
5 1/2"	20#	22	18379				

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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 #: RM0619PCBW466
Your Crew Today: B. Kennicker, B. Augirre
Log Correlated to: Float Sub at 7,089'

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	530
40 % Bond	2250
60 % Bond	3050
80 % Bond	7770
100 % Bond	-----

Comments

Bond Index Calculate for:
1300 PSI Compresive Strength from Surface to 7400'
and for 3000 PSI from 7400' to 8124'

Float Sub located at 7,089'

Thank you for using Gyrodata

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

Log Variables

DatabaseD:\Logging File Backup\Well Database 2016-2020\Clear Creek\2019\2019_06_20_clearcr
Dataset field/well/run1/BOND.1/_vars_

Top - 7400.00 ft

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	239	5.5	0.361	20	71.9	4.923

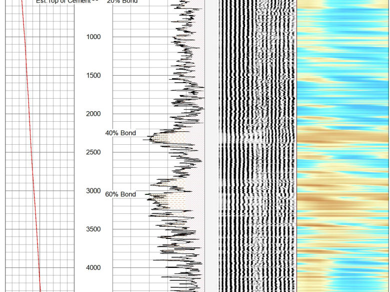
MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec	TDEPTH ft
5	4.751	0	237	0

7400.00 ft - Bottom

MINAMPL mV
2.1

Database File	d:\logging file backup\well database 2016-2020\clear creek\2019\2019_06_20_clearcreek_salt_ranch_fee_
Dataset Pathname	BOND.1
Presentation Format	bndindx_msg-sec
Dataset Creation	Fri Jun 21 17:42:01 2019
Charted by	Depth in Feet scaled 1:7500

0 TEMP (degF) 300 | 1 Bond Index 0 | Acoustic Waveform 200 (usec) 1200 | SECTORS



0 TEMP (degF) 300 | 1 Bond Index 0 | Acoustic Waveform 200 (usec) 1200 | SECTORS

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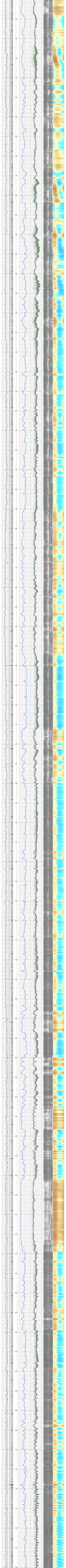
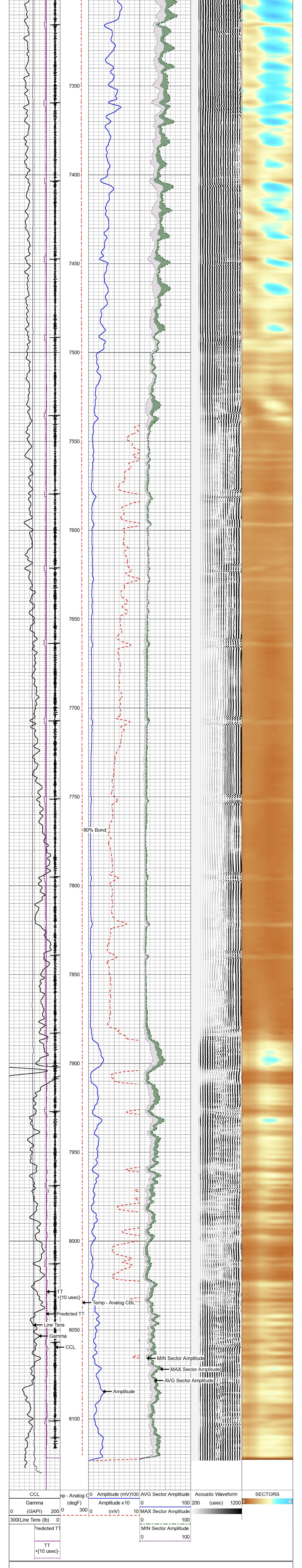
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File	d:\logging file backup\well database 2016-2020\clear creek\2019\2019_06_20_clearcreek_salt_ranch_fee_
Dataset Pathname	MAINPASS
Presentation Format	rcbl_8s
Dataset Creation	Thu Jun 20 19:47:51 2019
Charted by	Depth in Feet scaled 1:240

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





CCL	Temp - Analog CBL	Amplitude (mV)	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma 0 (GAPI) 200	(degF) 0 300	0 Amplitude (mV) 100	0 100	200 (usec) 1200	
300 Line Tens (lb) 0		Amplitude x10 0 (mV) 10	MAX Sector Amplitude 0 100		
Predicted TT			MIN Sector Amplitude 0 100		
TT +[10 usec]-					

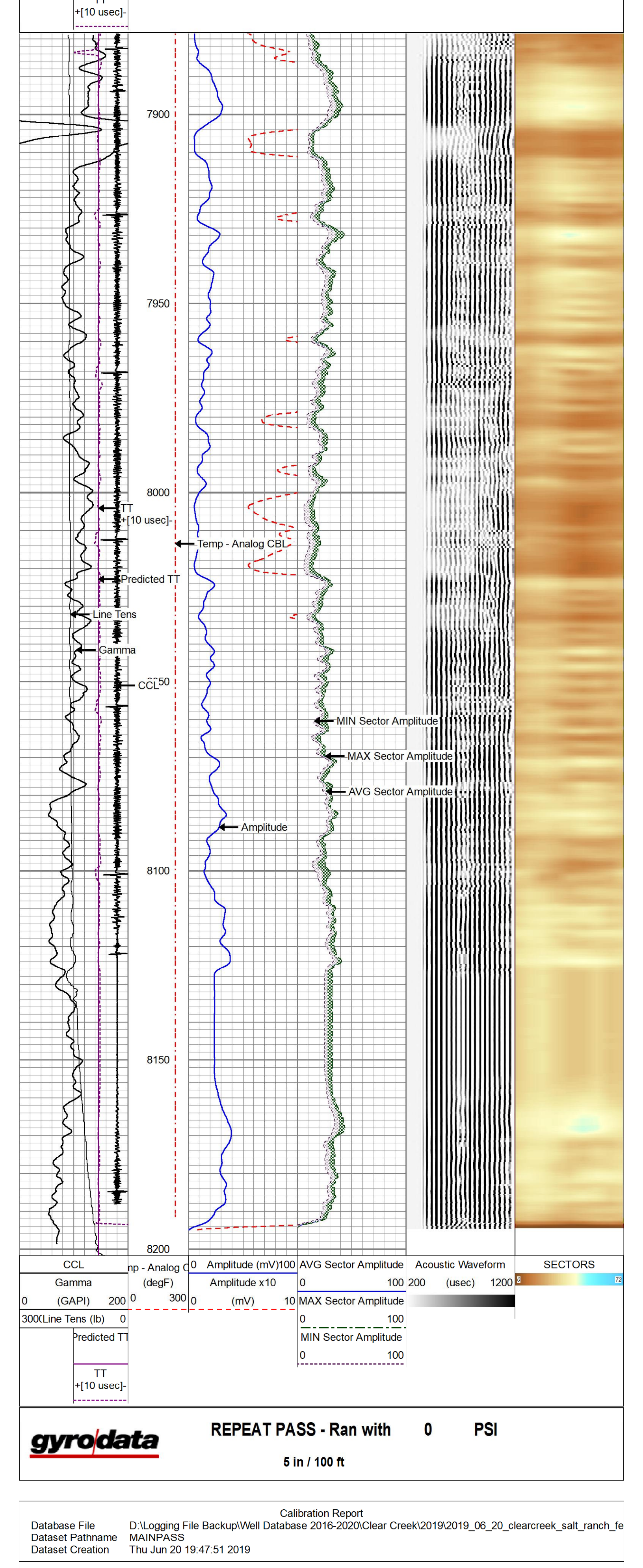
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	d:\logging file backup\well database 2016-2020\clear creek\2019\2019_06_20_clearcreek_salt_ranch_fee_
Dataset Pathname	REPEATPASS
Presentation Format	rcbl_8s
Dataset Creation	Thu Jun 20 19:53:48 2019
Charted by	Depth in Feet scaled 1:240



CCL	Temp - Analog CBL	Amplitude (mV)	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma 0 (GAPI) 200	(degF) 0 300	0 Amplitude (mV) 100	0 100	200 (usec) 1200	
300 Line Tens (lb) 0		Amplitude x10 0 (mV) 10	MAX Sector Amplitude 0 100		
Predicted TT			MIN Sector Amplitude 0 100		
TT +[10 usec]-					

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	D:\Logging File Backup\Well Database 2016-2020\Clear Creek\2019\2019_06_20_clearcreek_salt_ranch_fe
Dataset Pathname	MAINPASS
Dataset Creation	Thu Jun 20 19:47:51 2019

Gamma Ray Calibration Report

Serial Number:	IXEM9-02	
Tool Model:	2 3/4" TekCo	
Performed:	Thu Apr 25 09:11:34 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:	IT4B1-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	2260.280	ft

Master Calibration, performed (Derived):

	Raw (v) Zero	Raw (v) Cal	Calibrated (mv) Zero	Calibrated (mv) Cal	Results Gain	Results Offset
3'	-0.001	0.922	0.000	71.921	77.943	0.055
CAL	-0.004	0.624				
5'	0.002	1.479	0.000	71.921	48.696	-0.110
SUM						
S1	0.014	1.221	0.000	72.000	59.695	-0.864
S2	0.025	1.565	0.000	72.000	46.758	-1.167
S3	0.040	1.714	0.000	72.000	43.005	-1.704
S4	0.042	1.430	0.000	72.000	51.851	-2.170
S5	0.051	1.166	0.000	72.000	64.584	-3.324
S6	0.045	0.934	0.000	72.000	80.968	-3.654
S7	0.035	0.958	0.000	72.000	78.069	-2.769
S8	0.021	1.017	0.000	72.000	72.281	-1.542

Internal Reference Calibration, performed Fri Aug 25 15:20:58 2017:

	Raw (v) Zero	Raw (v) Cal	Calibrated (v) Zero	Calibrated (v) Cal	Results Gain	Results Offset
CAL	0.000	0.000	-0.004	0.624	1.000	0.000

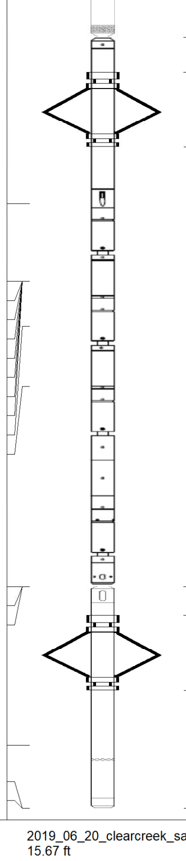
Air Zero Calibration, performed Fri Aug 25 15:20:58 2017:

	Raw (v) Zero	Calibrated (v) Zero	Results 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 10:07:15 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)	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					
WVFS5	8.76		RBTA-2 3/4" RIB Analog (IT4B1-01)	9.13	2.75	102.00
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_06_20_clearcreek_salt_ranch_fee_201_1015h_1300psi_cbl.db: field/well/run1/MAINPASS
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

Company	Clear Creek Resource Partners		
Well	Salt Ranch Fee 102-1015H		
Field	-----		
County	Weld		
State	CO	Country	U.S.A.