CEMENT BOND LOG

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Company	Clear Creek Resource Partners
Well	Salt Ranch Fee 506-1035H
Field	-----
County	Weld
State	CO

Company: Clear Creek Resource Partners
Well: Salt Ranch Fee 506-1035H
Field: -----
County: Weld State: CO

API #: 05-123-46500
Location: 357 FNL & 607' 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
Depth Driller	-----
Plug Back T.D. Driller	-----
Plug Back T.D. Logger	-----
Bottom Logged Interval	8,244'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max. Recorded Temp.	239°F
Time Logger on Bottom	16:00
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	2219'				
5 1/2"	20#	22	18050				

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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 #: RM0619PCBW465
Your Crew Today: B. Kennicker, B. Augirre
Log Correlated to: Float Sub at 7,334'

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	260
40 % Bond	260
60 % Bond	2240
80 % Bond	3460
100 % Bond	-----

Comments

Estimated Top of Cement (40 % Bond Index) at 260 feet

Bond Index Calculate for:
1300 PSI Compresive Strength from Surface to 7400'
and for 3000 PSI from 7400' to 8244'

Float Sub located at 7,334'

Thank you for using Gyrodata

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

Log Variables

DatabaseD:\Warrior\Data\2019_06_20_clearcreek_salt_ranch_fee_506_1035h_1300psi_cbl\2019_(
Dataset field/well/run1/BOND.2/_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

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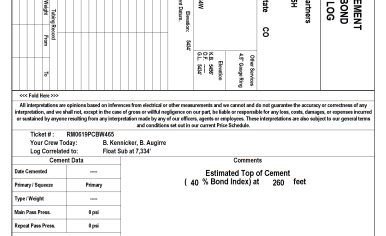
BOND INDEX

Calculated for 1300 PSI Compressive Strength Cement

Database File	2019_06_20_clearcreek_salt_ranch_fee_506_1035h_1300psi_cbl\2019_06_20_clearcreek_salt_ranch_fee
Dataset Pathname	BOND.2
Presentation Format	bndindx_msg-sec
Dataset Creation	Fri Jun 21 16:52:43 2019
Charted by	Depth in Feet scaled 1:7500



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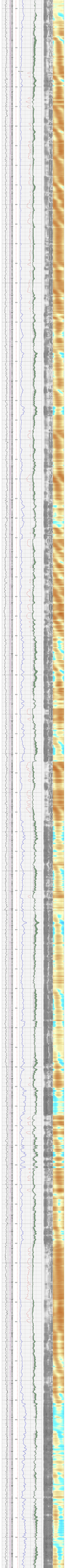
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2019_06_20_clearcreek_salt_ranch_fee_506_1035h_1300psi_cbl\2019_06_20_clearcreek_salt_ranch_fee
Dataset Pathname	MAINPASS
Presentation Format	rcbl_8s
Dataset Creation	Thu Jun 20 18:25:32 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	0 100	0 100	200 (usec) 1200	0 72
3000 Line Tens (lb) 0		Amplitude x10 0 (mV) 10	MAX Sector Amplitude 0 100		
Predicted TT			MIN Sector Amplitude 0 100		
TT +[10 usec]-					

gyrodata — **MAIN PASS - Ran with 0 PSI**

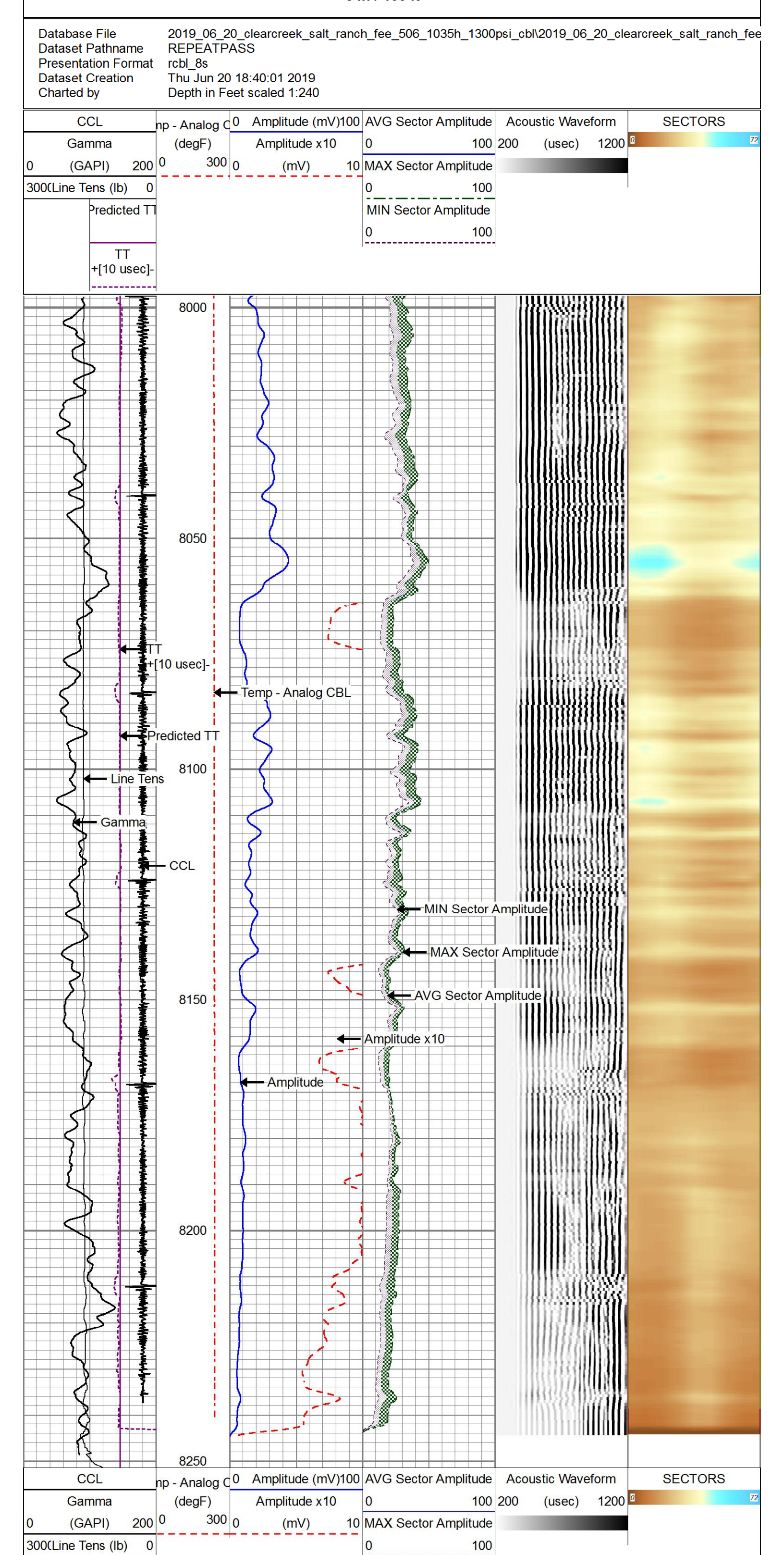
5 in / 100 ft

gyrodata — **REPEAT PASS - Ran with 0 PSI**

5 in / 100 ft

Database File	2019_06_20_clearcreek_salt_ranch_fee_506_1035h_1300psi_cbl\2019_06_20_clearcreek_salt_ranch_fee
Dataset Pathname	REPEATPASS
Presentation Format	rcbl_8s
Dataset Creation	Thu Jun 20 18:40:01 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	0 100	0 100	200 (usec) 1200	0 72
3000 Line Tens (lb) 0		Amplitude x10 0 (mV) 10	MAX Sector Amplitude 0 100		
Predicted TT			MIN Sector Amplitude 0 100		
TT +[10 usec]-					



CCL	Temp - Analog CBL	Amplitude (mV)	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma 0 (GAPI) 200	(degF) 0 300	0 100	0 100	200 (usec) 1200	0 72
3000 Line Tens (lb) 0		Amplitude x10 0 (mV) 10	MAX Sector Amplitude 0 100		
Predicted TT			MIN Sector Amplitude 0 100		
TT +[10 usec]-					

gyrodata — **REPEAT PASS - Ran with 0 PSI**

5 in / 100 ft

Calibration Report

Database File	D:\Warrior\Data\2019_06_20_clearcreek_salt_ranch_fee_506_1035h_1300psi_cbl\2019_06_20_clearcreek_
Dataset Pathname	MAINPASS
Dataset Creation	Thu Jun 20 18:25:32 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)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	0.906	0.000	71.921	79.322	0.073
CAL	-0.004	0.624				
5'	0.004	1.498	0.000	71.921	48.152	-0.195
SUM						
S1	0.014	1.076	0.000	72.000	67.799	-0.972
S2	0.021	1.268	0.000	72.000	57.767	-1.237
S3	0.035	1.476	0.000	72.000	49.981	-1.748
S4	0.039	1.492	0.000	72.000	49.581	-1.953
S5	0.043	1.353	0.000	72.000	54.951	-2.350
S6	0.041	1.114	0.000	72.000	67.084	-2.745
S7	0.034	1.085	0.000	72.000	68.558	-2.356
S8	0.020	1.026	0.000	72.000	71.598	-1.433

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

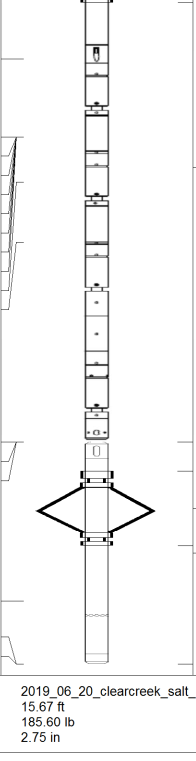
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.624	1.000	0.000

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

	Raw (v)	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 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		RBTA-2 3/4" RIB Analog (IT4B1-01)	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 (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_506_1035h_1300psi_cbl.db: field/well/run1/MAINPASS
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

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Company	Clear Creek Resource Partners
Well	Salt Ranch Fee 506-1035H
Field	-----
County	Weld
State	CO
Country	U.S.A.