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CEMENT BOND LOG

Company	Clear Creek Resource Partners
Well	Salt Ranch Fee 502-1034H
Field	-----
County	Weld
State	CO

Company Clear Creek Resource Partners
Well Salt Ranch Fee 502-1034H
Field -----
County Weld State CO

API # : 05-123-46501
Location: 357' FNL & 637' 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	7991'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max Recorded Temp.	237°F
Time Logger on Bottom	14:00
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	17877				

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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 # : RM0619PCBW464
Your Crew Today: B. Kennicker, B. Augirre
Log Correlated to: Float Sub at 7,319'

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	30
40 % Bond	30
60 % Bond	2375
80 % Bond	4790
100 % Bond	-----

Comments

Estimated Top of Cement
(40 % Bond Index) at 30 feet

Bond Index Calculate for:
1300 PSI Compresive Strength from Surface to 7400'
and for 3000 PSI from 7400' to 7991'

Float Sub located at 7,319'

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\clear creek salt ranch 1300psi cs\2019_06_20_clearcreek_salt_ranch_fee_
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	237	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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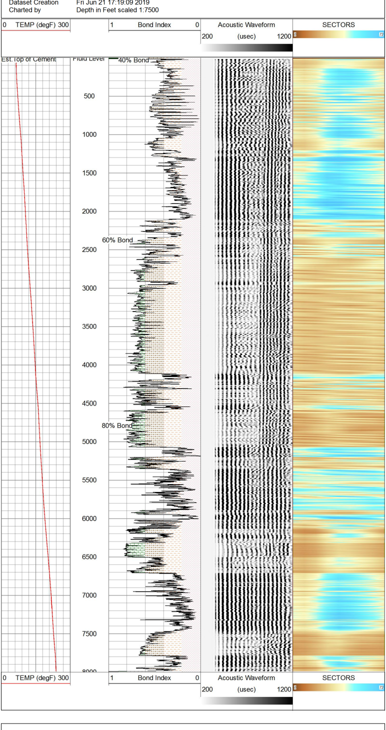
BOND INDEX

Calculated for 1300 PSI Compressive Strength Cement

Database File	clear creek salt ranch 1300psi cs\2019_06_20_clearcreek_salt_ranch_fee_502_1034h_1300psi_cbl\2019_
Dataset Pathname	BOND.2
Presentation Format	bndindx_msg-sec
Dataset Creation	Fri Jun 21 17:19:09 2019
Charted by	Depth in Feet scaled 1:7500



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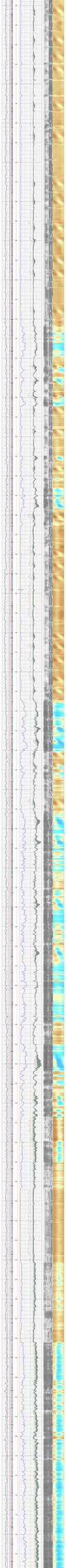
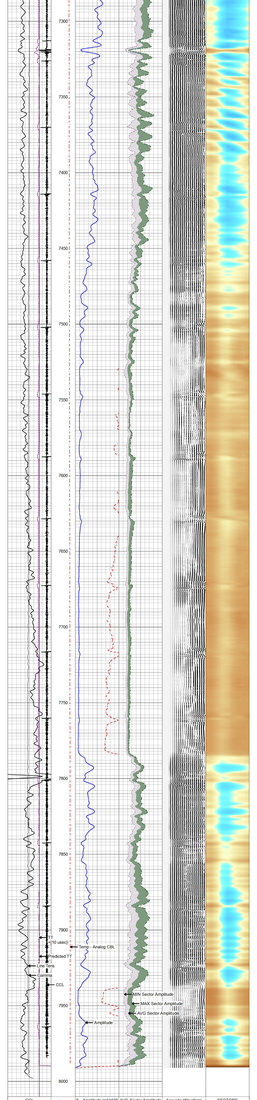
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File	clear creek salt ranch 1300psi cs\2019_06_20_clearcreek_salt_ranch_fee_502_1034h_1300psi_cbl\2019_
Dataset Pathname	MAINPASS
Presentation Format	rcbl_8s
Dataset Creation	Thu Jun 20 16:50:24 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



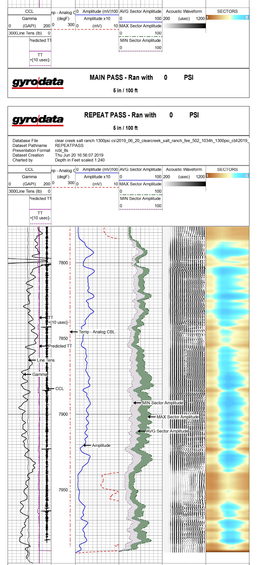


MAIN PASS - Ran with 0 PSI

6 in / 100 ft

REPEAT PASS - Ran with 0 PSI

6 in / 100 ft



REPEAT PASS - Ran with 0 PSI

6 in / 100 ft

Calibration Report

Database File D:\Warrior\Data\Clear Creek Salt Ranch 1300\jsa CD\2019_08_20_clearcreek_salt_ranch_fee_502_1034h_1300jsa_cbl.db

Database Filename MAINPASS

Database Created Thu Jun 20 16:50:24 2019

Gamma Ray Calibration Report

Serial Number:	18234G-02
Tool Model:	2 3/4" TeleCo
Performed:	Thu Apr 25 08:11:34 2019
Calibrator Value:	194.0 GAPI
Background Reading:	95.1 cps
Calibrator Reading:	391.4 cps
Sensitivity:	0.5963 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IT481-01
Tool Model:	2 3/4" RIB Analog
Calibration Casing Diameter:	5.500 in
Calibration Depth:	2290.200 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
T	0.001	0.907	0.000	71.521	79.338	-0.050
CAL	-0.004	0.624				
AVG	0.005	1.653	0.000	71.521	43.637	-0.202
DJ-M						
D1	0.011	1.159	0.000	72.000	62.147	-0.713
D2	0.016	1.160	0.000	72.000	62.094	-0.884
D3	0.039	1.380	0.000	72.000	53.754	-2.158
D4	0.044	1.135	0.000	72.000	66.029	-2.929
D5	0.047	0.947	0.000	72.000	77.551	-3.639
D6	0.047	0.948	0.000	72.000	77.457	-3.707
D7	0.037	0.886	0.000	72.000	84.623	-3.130
D8	0.025	0.918	0.000	72.000	77.397	-1.960

Internal Reference Calibration, performed Fri Aug 25 15:20:56 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.624	1.604	0.000

Air Zero Calibration, performed Fri Aug 25 15:25:56 2017:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
T	0.000	0.000	0.000
DJ-M	0.000	0.000	0.000
D1	0.000	0.000	0.000
D2	0.000	0.000	0.000
D3	0.000	0.000	0.000
D4	0.000	0.000	0.000
D5	0.000	0.000	0.000
D6	0.000	0.000	0.000
D7	0.000	0.000	0.000
D8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number:	IT481-01
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 TitanCoreType2	1.03	1.44	3.60
CCL	13.50		—CCL_Log-2 3/4" TeleCo (IS271-09)	1.83	2.75	33.00
TEMP	10.05		—Antelope-Overbody	1.25	2.75	
WVF3B	8.76		—RBTA-2 3/4" RIB Analog (IT481-01)	9.13	2.75	102.00
WVF3U	8.76					
WVF5B	8.76					
WVF5U	8.76					
WVF3A	8.76					
WVF5U	8.76					
WVF3U	8.76					
WVF5B	8.76					
WVF3FT	8.51					
WVF5FT	7.01					
WVF3TNC	3.68		—Antelope-Overbody	1.25	2.75	
WVF1SMT	3.68					
WVF1CAL	3.68		—GR_Log-2 3/4" TeleCo (XEM8-02)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
LOCTM	0.00					

Dataset: 2019_08_20_clearcreek_salt_ranch_fee_502_1034h_1300jsa_cbl.db field\wellhun1\MAIN\PASS
Total length: 15.67 ft
Total weight: 185.00 lb
O.D. 2.75 in

Company	Clear Creek Resource Partners		
Well	Salt Ranch Fee 502-1034H		
Field	---		
County	Weld		
State	CO	Country	U.S.A.