gyrodata

CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	VT-Glenmere C1-16-18
Field	Wattenberg
County	Weld
State	CO

Company: Extraction Oil and Gas
Well: VT-Glenmere C1-16-18
Field: Wattenberg
County: Weld State: CO

API #: 05-123-44424
Location: 1877' FNL & 697' FWL
Lat: 40.401340
Long: -104.656370

SEC: 15 TWP: 5N RGE: 65W

Other Services

Elevation: K.B. 4676', D.F. -----, G.L. 4647'

Permanent Datum: Ground Level Elevation: 4647'
Log Measured From: KB , 29 ft. above Permanent Datum.
Drilling Measured From: KB

Date	13 Aug 2018
Run Number	One
Plug Back T.D. Driller	-----
Plug Back T.D. Logger	-----
Bottom Logged Interval	8344'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max. Recorded Temp.	248°F
Time Logger on Bottom	08:15
Equipment Number	GD 164
Location	Casper, WY
Recorded By	J. Baker
Witnessed By	L. Siegel

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	1500'				
5 1/2"	20#	Surface	20,878'				

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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 # : RM0818PCBW799
Your Crew Today: B. Kennicker, M. Vasquez, D. Hamilton
Log Correlated to: Surface

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	100'
40 % Bond	100'
60 % Bond	195'
80 % Bond	939'
100 % Bond	3982'

Comments

Estimated cement top at 100' (20% Bond)

Marker Joint located at 7,891'

Thank you for using Gyrodata

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

Log Variables

Database c:\programdata\warrior\data\extraction\2018_08_13_extraction_vt_glenmere_c1_16_18_c
Dataset field/well/run1/pass4/_vars_

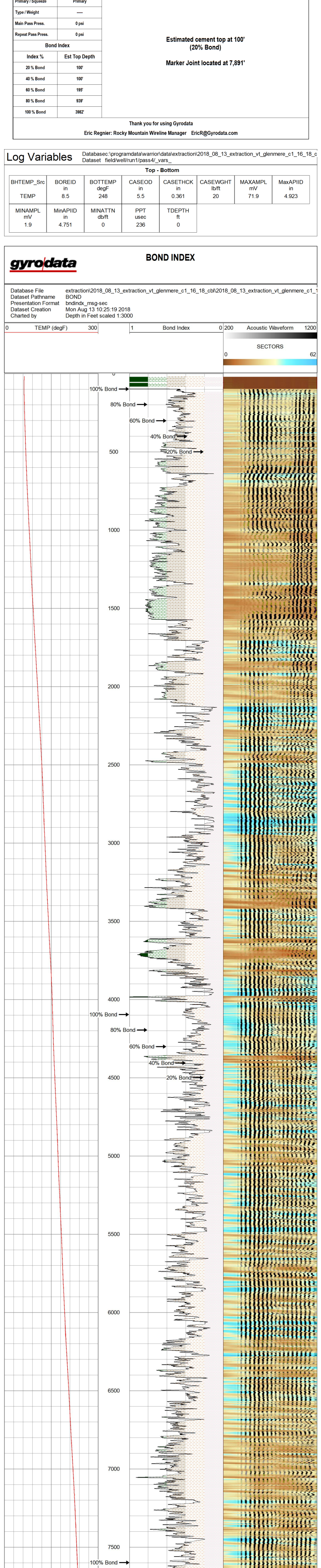
Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	248	5.5	0.361	20	71.9	4.923

MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec	TDEPTH ft
1.9	4.751	0	236	0

BOND INDEX

Database File	extraction\2018_08_13_extraction_vt_glenmere_c1_16_18_cbl\2018_08_13_extraction_vt_glenmere_c1_1
Dataset Pathname	BOND
Presentation Format	bndindx_msg-sec
Dataset Creation	Mon Aug 13 10:25:19 2018
Charted by	Depth in Feet scaled 1:3000

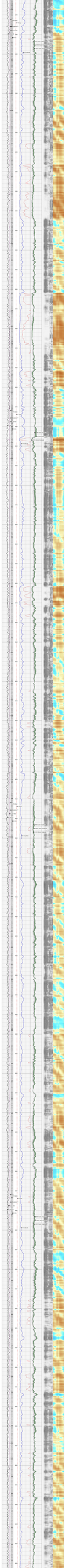


BOND INDEX

MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File	extraction\2018_08_13_extraction_vt_glenmere_c1_16_18_cbl\2018_08_13_extraction_vt_glenmere_c1_1
Dataset Pathname	pass4
Presentation Format	rcbl_8s
Dataset Creation	Mon Aug 13 08:18:27 2018
Charted by	Depth in Feet scaled 1:240



CCL	Temp	0 Amplitude (mV) 100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 1200	0 62
0 (GAPI) 200	0 300	0 (mV) 10	MAX Sector Amplitude		
300(Line Tens (lb) 0			0 100		
Predicted TT			MIN Sector Amplitude		
TT +[10 usec]-			0 100		

MAIN PASS - Ran with 0 PSI

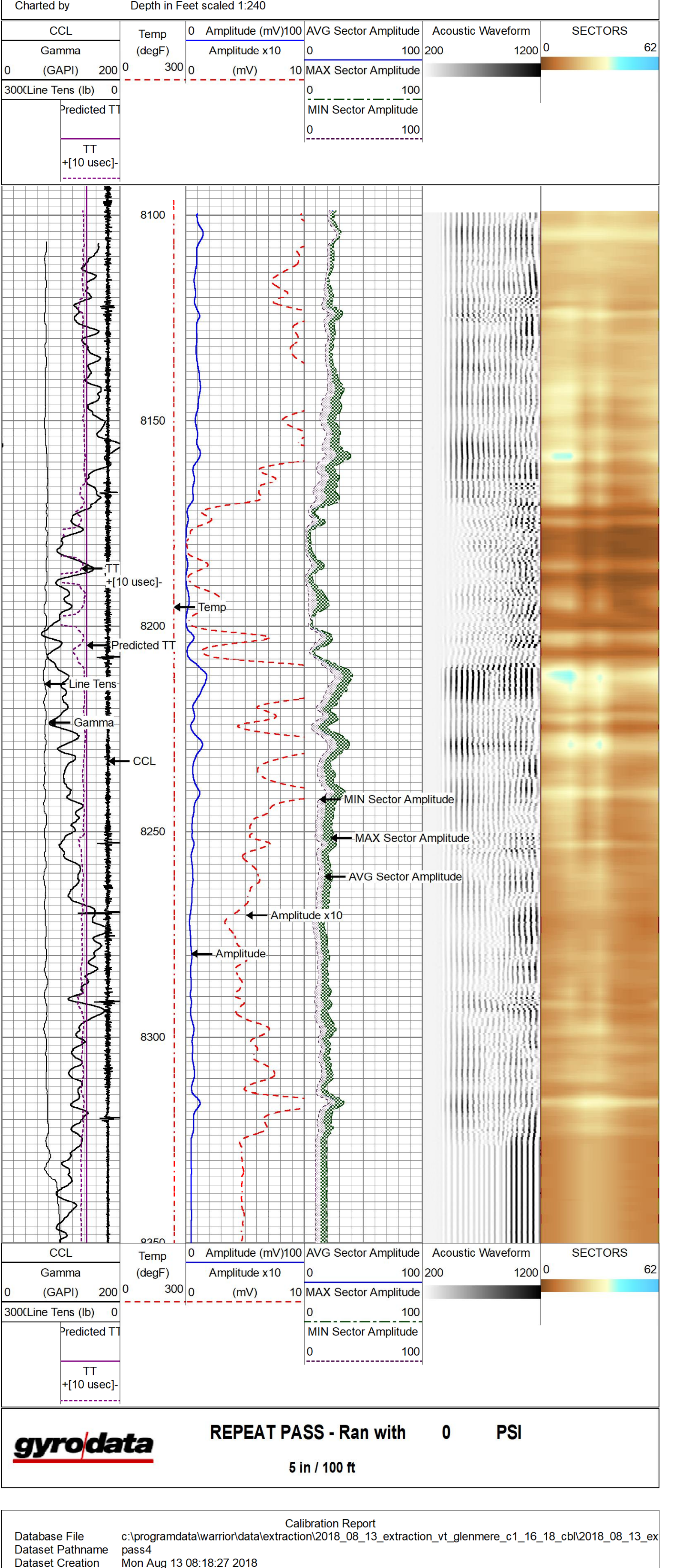
5 in / 100 ft

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File extraction\2018_08_13_extraction_vt_glenmere_c1_16_18_cbl\2018_08_13_extraction_vt_glenmere_c1_1
Dataset Pathname pass3
Presentation Format rcbl_8s
Dataset Creation Mon Aug 13 08:13:19 2018
Charted by Depth in Feet scaled 1:240

CCL	Temp	0 Amplitude (mV) 100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 1200	0 62
0 (GAPI) 200	0 300	0 (mV) 10	MAX Sector Amplitude		
300(Line Tens (lb) 0			0 100		
Predicted TT			MIN Sector Amplitude		
TT +[10 usec]-			0 100		



CCL	Temp	0 Amplitude (mV) 100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 1200	0 62
0 (GAPI) 200	0 300	0 (mV) 10	MAX Sector Amplitude		
300(Line Tens (lb) 0			0 100		
Predicted TT			MIN Sector Amplitude		
TT +[10 usec]-			0 100		

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File c:\programdata\warrior\data\extraction\2018_08_13_extraction_vt_glenmere_c1_16_18_cbl\2018_08_13_ex
Dataset Pathname pass4
Dataset Creation Mon Aug 13 08:18:27 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: IPPO2-01
Tool Model: 2 3/4" RIB Analog

Calibration Casing Diameter: 5.500 in
Calibration Depth: 344.560 ft

Master Calibration, performed Sun Aug 12 11:27:33 2018:

	Raw (v) Zero	Raw (v) Cal	Calibrated (mv) Zero	Calibrated (mv) Cal	Results Gain	Results Offset
3'	0.008	0.908	0.000	71.921	79.912	-0.602
CAL	-0.000	0.503				
5'	0.010	1.188	0.000	71.921	61.037	-0.594
SUM						
S1	0.017	0.905	0.000	72.000	81.059	-1.357
S2	0.015	0.925	0.000	72.000	79.154	-1.187
S3	0.015	0.967	0.000	72.000	75.580	-1.104
S4	0.017	0.992	0.000	72.000	73.893	-1.279
S5	0.015	1.005	0.000	72.000	72.755	-1.102
S6	0.017	0.944	0.000	72.000	77.701	-1.346
S7	0.018	0.873	0.000	72.000	84.266	-1.525
S8	0.018	0.844	0.000	72.000	87.115	-1.550

Internal Reference Calibration, performed Fri Aug 25 16:15:12 2017:

	Raw (v) Zero	Raw (v) Cal	Calibrated (v) Zero	Calibrated (v) Cal	Results Gain	Results Offset
CAL	0.000	0.000	-0.000	0.503	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 16:15:12 2017:

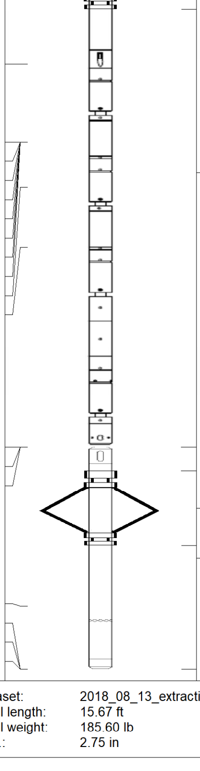
	Raw (v) Zero	Calibrated (v) Zero	Results Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number: IPPO2-01
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)	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 (IPSN7-03)	1.83	2.75	33.00
			Antelope-Overbody	1.25	2.75	
TEMP	10.05					
WVFS8	8.76					
WVFS7	8.76		RBTA-2 3/4" RIB Analog (IPPO2-01)	9.13	2.75	102.00
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					
			Antelope-Overbody	1.25	2.75	
			GR_Log-2 3/4" TekCo (ISHV2-03)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					
PMON	0.00					

Dataset: 2018_08_13_extraction_vt_glenmere_c1_16_18_cbl.db: field/well/run1/pass4
Total length: 15.67 ft
Total weight: 185.60 lb
O.D.: 2.75 in

Company	Extraction Oil and Gas	
Well	VT-Glenmere C1-16-18	
Field	Wattenberg	
County	Weld	
State	CO	**Country** U.S.A.