CEMENT BOND LOG

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Company	Extraction Oil and Gas		
Well	Coyote Trails 34S-20-14C		
Field	Wattenberg		
County	Weld	State	Colorado
API #:	05-123-45984		
Location:	SW/SE 1145 FSL 2067 FEL		Other Services
SEC: 28	TWP: 1N	RGE: 68W	

Permanent Datum:	Ground Level	Elevation: 5272	Elevation: K.B. 5301, D.F. 5300, G.L. 5272
Log Measured From:	Kelly Bushing	29 ft. above Permanent Datum.	
Drilling Measured From:	Kelly Bushing		

Date	31 March 2018
Run Number	One
Depth Driller	----
Depth Logger	9216
Bottom Logged Interval	9216
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max. Recorded Temp.	245
Time Logger on Bottom	17:30
Equipment Number	GD112
Location	Casper
Recorded By	GS Yarbro
Witnessed By	Mr. Torres

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	29	....				
5 1/2	20	29	....				

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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 # :
Your Crew Today: Kennicker, Staker, Tad-y
Log Correlated to: Surface

Cement Data	
Date Cemented	----
Primary / Squeeze	Primary
Type / Weight	----
Main Pass Press.	1000
Repeat Pass Press.	Zero

Bond Index	
Index %	Est Top Depth
20 % Bond	1908
40 % Bond	5722
60 % Bond	7538
80 % Bond	7538
100 % Bond	----

Comments

Estimated Top of Cement (20% Bond Index) @ 1908'

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\20180331_extraction_coyote trails 34s 20 14c_cbl\20180331_extraction_c
Dataset field/well/run1/pass3.1/_vars_

Top - Bottom

BHTEMP_Src	BOREID (in)	BOTTEMP (degF)	CASEOD (in)	CASETHCK (in)	CASEWGHT (lb/ft)	MAXAMPL (mV)	MaxAPIID (in)
TEMP	8.5	100	5.5	0.361	20	71.9	4.923

MaxAPIWall (in)	MINAMPL (mV)	MinAPIID (in)	MINATTN (db/ft)	PPT (usec)
0.361	1.9	4.751	0	237

BOND INDEX

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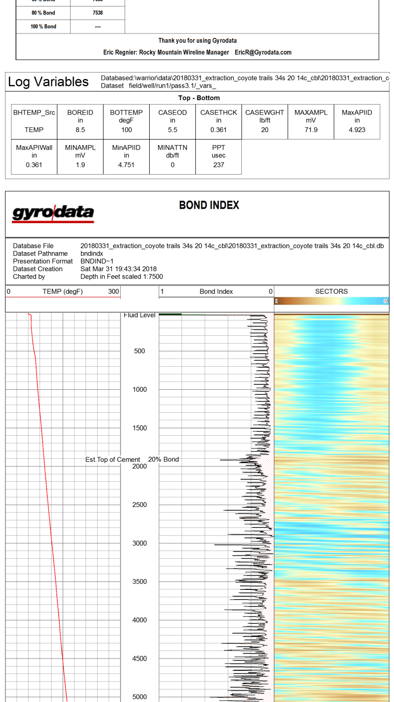
Database File	20180331_extraction_coyote trails 34s 20 14c_cbl\20180331_extraction_coyote trails 34s 20 14c_cbl.db
Dataset Pathname	bndindx
Presentation Format	BNDIND~1
Dataset Creation	Sat Mar 31 19:43:34 2018
Charted by	Depth in Feet scaled 1:7500



MAIN PASS - Ran with 1000 PSI

5 in / 100 ft

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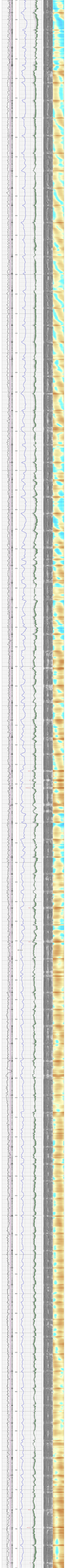
Database File	20180331_extraction_coyote trails 34s 20 14c_cbl\20180331_extraction_coyote trails 34s 20 14c_cbl.db
Dataset Pathname	pass3.1
Presentation Format	rcbl_8s
Dataset Creation	Sat Mar 31 19:39:07 2018
Charted by	Depth in Feet scaled 1:240



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

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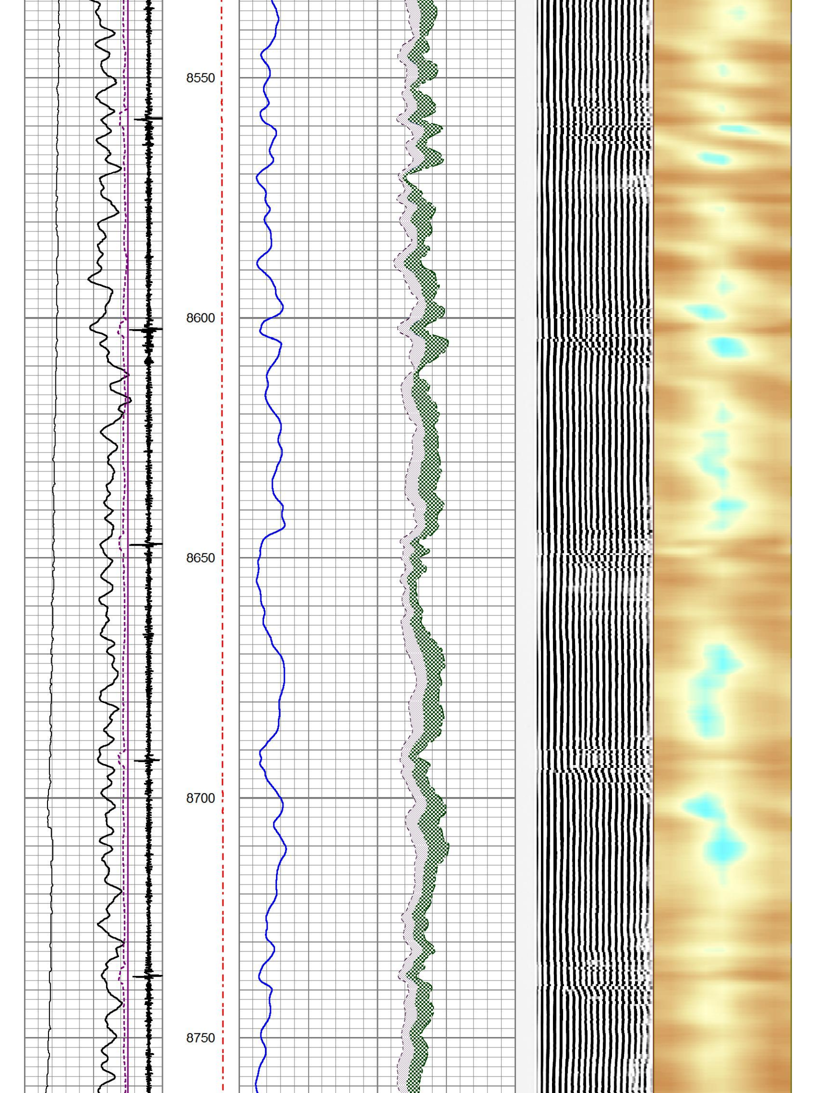
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	20180331_extraction_coyote trails 34s 20 14c_cbl\20180331_extraction_coyote trails 34s 20 14c_cbl.db
Dataset Pathname	pass2.1
Presentation Format	rcbl_8s
Dataset Creation	Sat Mar 31 19:43:10 2018
Charted by	Depth in Feet scaled 1:240

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



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

Calibration Report

Database File	d:\warrior\data\20180331_extraction_coyote trails 34s 20 14c_cbl\20180331_extraction_coyote trails 34s 20
Dataset Pathname	pass3.1
Dataset Creation	Sat Mar 31 19:39:07 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:	IT4B1-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	485.240	ft

Master Calibration, performed (Derived):

	Raw (v) Zero	Raw (v) Cal	Calibrated (mv) Zero	Calibrated (mv) Cal	Results Gain	Results Offset
3'	-0.001	1.788	0.000	71.921	40.188	0.060
CAL	-0.005	0.752				
5'	0.000	2.382	0.000	71.921	30.197	-0.007
SUM						
S1	0.014	2.102	0.000	71.921	34.446	-0.468
S2	0.014	2.152	0.000	71.921	33.641	-0.473
S3	0.023	2.114	0.000	71.921	34.393	-0.793
S4	0.023	1.979	0.000	71.921	36.784	-0.857
S5	0.024	2.005	0.000	71.921	36.294	-0.855
S6	0.024	1.938	0.000	71.921	37.582	-0.901
S7	0.021	2.111	0.000	71.921	34.424	-0.734
S8	0.018	2.189	0.000	71.921	33.116	-0.582

Internal Reference Calibration, performed Fri Aug 25 16:20:58 2017:

	Raw (v) Zero	Raw (v) Cal	Calibrated (v) Zero	Calibrated (v) Cal	Results Gain	Results Offset
CAL	0.000	0.000	-0.005	0.752	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 16:20:58 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 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)	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				
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 (ISHV2-03)	3.68	2.75	47.00
GR	1.04				
LOCTIM	0.00				
UTCTIM	0.00				

Dataset:	20180331_extraction_coyote trails 34s 20 14c_cbl.db: field/well/run1/pass3.1
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

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Company	Extraction Oil and Gas		
Well	Coyote Trails 34S-20-14C		
Field	Wattenberg		
County	Weld		
State	Colorado	**Country**	U.S.A.