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CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	Coyote Trails 34S-20-15N
Field	Wattenberg
County	Weld
State	Colorado

Company: Extraction Oil and Gas
Well: Coyote Trails 34S-20-15N
Field: Wattenberg
County: Weld State: Colorado

API #: 05-123-45987
Location: SW/SE 1145 FSL 2049 FEL

Other Services

SEC: 28 TWP: 1N RGE: 68W

Elevation: K.B. 5302, D.F. 5301, G.L. 5273

Permanent Datum: Ground Level Elevation: 5273
Log Measured From: Kelly Bushing , 29 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	31 March 2018
Run Number	One
Plug Back T.D. Driller	----
Plug Back T.D. Logger	----
Bottom Logged Interval	9569
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max. Recorded Temp.	238
Time Logger on Bottom	14:30
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	1532
40 % Bond	2080
60 % Bond	2335
80 % Bond	7447
100 % Bond	

Comments

Estimated Top of Cement (20% Bond Index) @ 1532'

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 15n_cbl\20180331_extraction_c
Dataset field/well/run1/pass8.1/_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

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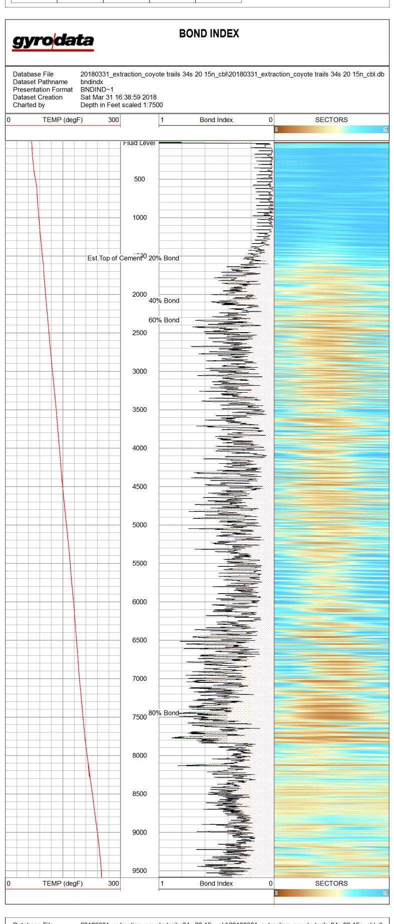
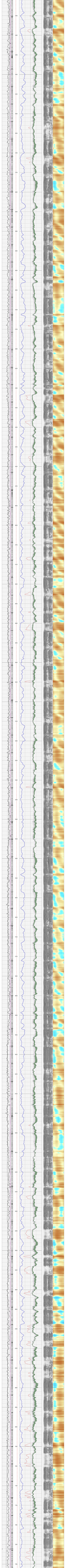
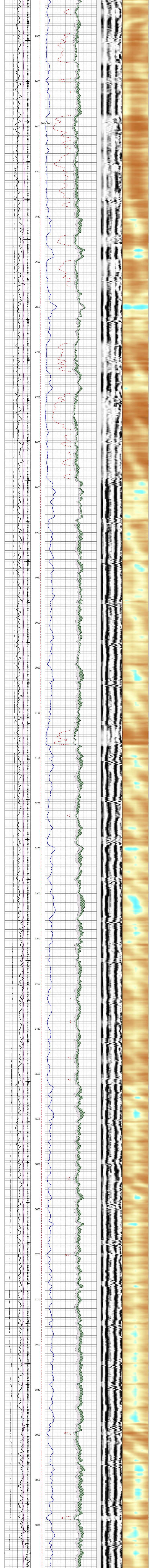
BOND INDEX

Database File	20180331_extraction_coyote trails 34s 20 15n_cbl\20180331_extraction_coyote trails 34s 20 15n_cbl.db
Dataset Pathname	bndindx
Presentation Format	BNDIND~1
Dataset Creation	Sat Mar 31 16:38:59 2018
Charted by	Depth in Feet scaled 1:7500



Database File	20180331_extraction_coyote trails 34s 20 15n_cbl\20180331_extraction_coyote trails 34s 20 15n_cbl.db
Dataset Pathname	pass8.1
Presentation Format	rcbl_8s
Dataset Creation	Sat Mar 31 16:34:01 2018
Charted by	Depth in Feet scaled 1:240





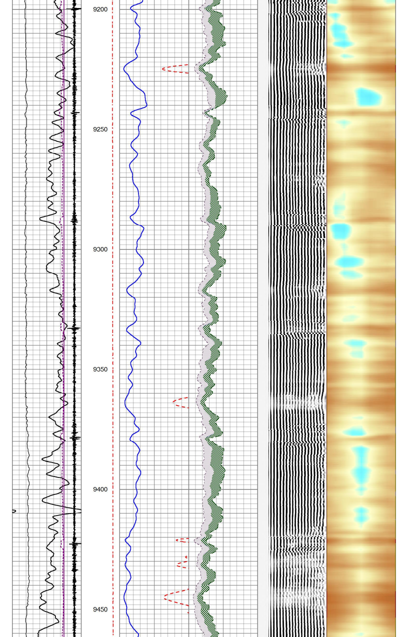
CCL - Analog | Temp - Analog CBL (degF) 0–300 | Amplitude (mV) 0–100 | AVG Sector Amplitude 0–100 | Acoustic Waveform 200 (usec) 1200 | SECTORS
Gamma 0 (GAPI) 200 | Amplitude x10 0 (mV) 10 | MAX Sector Amplitude 0–100
300 (Line Tens (lb) 0 | MIN Sector Amplitude 0–100
Predicted TT
TT +[10 usec]-

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	20180331_extraction_coyote trails 34s 20 15n_cbl\20180331_extraction_coyote trails 34s 20 15n_cbl.db
Dataset Pathname	pass7.1
Presentation Format	rcbl_8s
Dataset Creation	Sat Mar 31 16:38:33 2018
Charted by	Depth in Feet scaled 1:240

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



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

Calibration Report

Database File	d:\warrior\data\20180331_extraction_coyote trails 34s 20 15n_cbl\20180331_extraction_coyote trails 34s 20
Dataset Pathname	pass8.1
Dataset Creation	Sat Mar 31 16:34:01 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'	-0.002	1.533	0.000	71.921	46.865	0.076
CAL	-0.005	0.752				
5'	-0.000	2.250	0.000	71.921	31.963	0.010
SUM						
S1	0.009	1.973	0.000	71.921	36.614	-0.323
S2	0.010	1.721	0.000	71.921	42.037	-0.440
S3	0.014	1.840	0.000	71.921	39.380	-0.545
S4	0.017	1.925	0.000	71.921	37.689	-0.639
S5	0.023	1.784	0.000	71.921	40.849	-0.938
S6	0.019	1.631	0.000	71.921	44.633	-0.855
S7	0.015	1.716	0.000	71.921	42.270	-0.634
S8	0.012	1.856	0.000	71.921	39.000	-0.481

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:

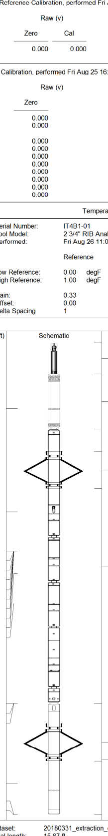
	Raw (v) Zero	Calibrated (v) Zero	Results Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

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	RBTA-2 3/4" RIB Analog (IT4B1-01)	9.13	2.75	102.00
WVFS7	8.76				
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				

Dataset:	20180331_extraction_coyote trails 34s 20 15n_cbl.db: field/well/run1/pass8.1
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-20-15N
Field	Wattenberg
County	Weld
State	Colorado
Country	U.S.A.