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CEMENT BOND LOG

Company	Extraction Oil and Gas, Inc.
Well	Coyote Trails 33W-15-2N
Field	Wattenberg
County	Weld
State	Colorado

Company: Extraction Oil and Gas, Inc.
Well: Coyote Trails 33W-15-2N
Field: Wattenberg
County: Weld State: Colorado

API #: 05 123 48251
Location: SW/SW 1200 FSL 2391 FEL

Other Services

SEC: 28 TWP: 1N RGE: 68W

Elevation: K.B. 5301, D.F. 5300, G.L. 5276

Permanent Datum:	Ground Level Elevation: 5276
Log Measured From:	Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From:	Kelly Bushing
Date	28 April 2019
Run Number	One
Plug Back T.D. Driller	----
Plug Back T.D. Logger	----
Bottom Logged Interval	8630
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max. Recorded Temp.	245
Time Logger on Bottom	10:10
Equipment Number	GD164
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	25	----				
5 1/2	----	25	----				

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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 # : RM0419PCAW345
Your Crew Today: Cheesman, Enloe
Log Correlated to: Srface

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

Bond Index	
Index %	Est Top Depth
20 % Bond	150
40 % Bond	150
60 % Bond	200
80 % Bond	2065
100 % Bond	2200

Comments

Estimated Top of Cement
(40% Bond Index) @ 150

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\20190428_extraction_coyote trails 33w-15-2n_cbl\20190428_extraction_co
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

MINAMPL (mV)	MinAPIID (in)	MINATTN (db/ft)	PPT (usec)	TDEPTH (ft)
2.1	4.751	0	238	0

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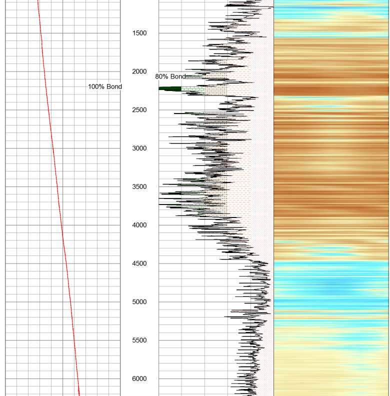
BOND INDEX

Calculated for 3000 PSI Compressive Strength Cement

Database File	20190428_extraction_coyote trails 33w-15-2n_cbl\20190428_extraction_coyote trails 33w-15-2n_cbl.db
Dataset Pathname	./../bndindx
Presentation Format	BNDIND~1
Dataset Creation	Sun Apr 28 13:10:57 2019
Charted by	Depth in Feet scaled 1:7500



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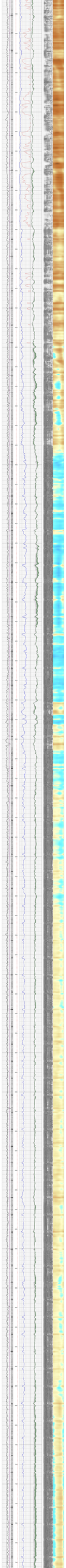
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File	20190428_extraction_coyote trails 33w-15-2n_cbl\20190428_extraction_coyote trails 33w-15-2n_cbl.db
Dataset Pathname	pass3.1
Presentation Format	rcbl_8s
Dataset Creation	Sun Apr 28 12:59:59 2019
Charted by	Depth in Feet scaled 1:240



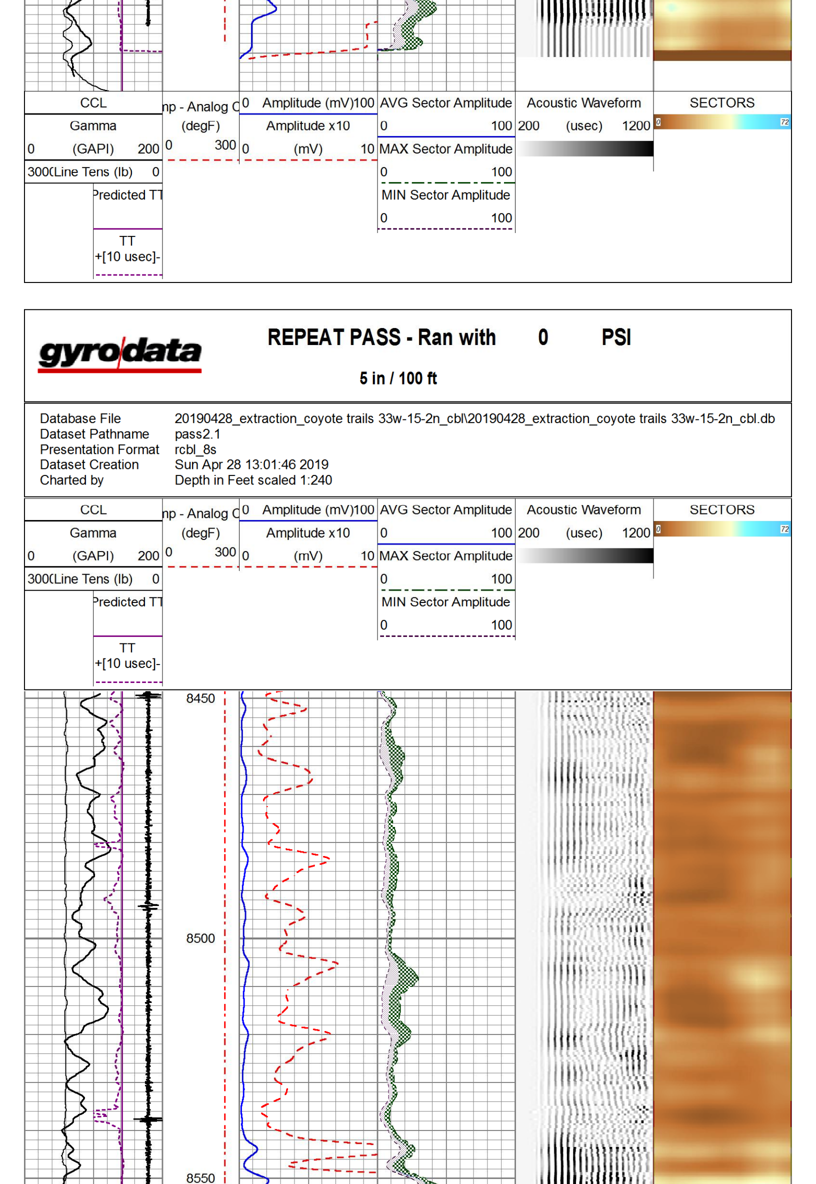
CCL	Temp - Analog CBL	0 Amplitude (mV) 100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	
0 (GAPI) 200	0 300	0 (mV) 10	MAX Sector Amplitude		
300 (Line Tens (lb) 0			0 100		
Predicted TT			MIN Sector Amplitude		
TT +[10 usec]			0 100		

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

5 in / 100 ft

Database File 20190428_extraction_coyote trails 33w-15-2n_cbl\20190428_extraction_coyote trails 33w-15-2n_cbl.db
Dataset Pathname pass2.1
Presentation Format rcbl_8s
Dataset Creation Sun Apr 28 13:01:46 2019
Charted by Depth in Feet scaled 1:240

CCL	Temp - Analog CBL	0 Amplitude (mV) 100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	
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 - Analog CBL	0 Amplitude (mV) 100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	
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		

Calibration Report

Database File d:\warrior\data\20190428_extraction_coyote trails 33w-15-2n_cbl\20190428_extraction_coyote trails 33w-15
Dataset Pathname pass3.1
Dataset Creation Sun Apr 28 12:59:59 2019

Gamma Ray Calibration Report

Serial Number: ISHV2-03
Tool Model: 2 3/4" TekCo
Performed: Thu Apr 25 10:34:21 2019

Calibrator Value: 194.0 GAPI

Background Reading: 61.7 cps
Calibrator Reading: 373.2 cps

Sensitivity: 0.6226 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: ISF06-04
Tool Model: 2 3/4" RIB Analog

Calibration Casing Diameter: 5.500 in
Calibration Depth: 112.540 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.010	1.514	0.000	72.000	47.251	0.469
CAL	-0.004	0.749				
5'	-0.005	1.734	0.000	72.000	41.385	0.225
SUM						
S1	0.022	1.656	0.000	72.000	44.043	-0.955
S2	0.031	1.636	0.000	72.000	44.868	-1.401
S3	0.044	1.798	0.000	72.000	41.062	-1.812
S4	0.056	1.980	0.000	72.000	37.419	-2.106
S5	0.052	2.053	0.000	72.000	35.978	-1.860
S6	0.034	2.013	0.000	72.000	36.374	-1.227
S7	0.016	1.949	0.000	72.000	37.247	-0.603
S8	0.013	1.725	0.000	72.000	42.050	-0.535

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.749	1.000	0.000

Air Zero Calibration, performed (Not Performed):

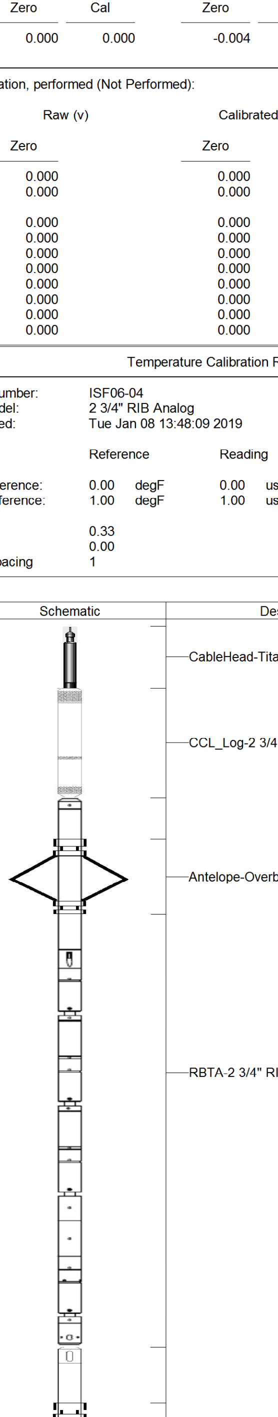
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number: ISF06-04
Tool Model: 2 3/4" RIB Analog
Performed: Tue Jan 08 13:48:09 2019

	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		RBTA-2 3/4" RIB Analog (ISF06-04)	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: 20190428_extraction_coyote trails 33w-15-2n_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, Inc.
Well	Coyote Trails 33W-15-2N
Field	Wattenberg
County	Weld
State	Colorado
Country	U.S.A.