gyrodata

Cement Bond Log

Company	Extraction Oil and Gas
Well	Darlene East 29N-20-11C
Field	----
County	Weld
State	Colorado

Company: Extraction Oil and Gas
Well: Darlene East 29N-20-11C
Field: ----
County: Weld State: Colorado

API #: 05-123-45416
Location: SW/SE 363 FSL 1942 FEL
SEC: 29 TWP: 12N RGE: 61W

Other Services

Elevation: K.B. 5272, D.F. 5271, G.L. 5247

Permanent Datum: Ground LEvel Elevation: 5247
Log Measured From: Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	17 October 2017
Run Number	One
Plug Back T.D. Driller	----
Plug Back T.D. Logger	----
Bottom Logged Interval	7460
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max. Recorded Temp.	224
Time Logger on Bottom	09:15
Equipment Number	GD114
Location	Casper
Recorded By	GS Yarbro
Witnessed By	Mr. Stephens

Casing Record Size	Weight	From	To	Tubing Record Size	Weight	From	To
9 5/8	36	0	1500				
5 1/2	20	0	17484				

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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 #: RM1017WLOW699
Your Crew Today: Graham, Adams
Log Correlated to: Surface

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

Bond Index	
Index %	Est Top Depth
20 % Bond	106
40 % Bond	724
60 % Bond	834
80 % Bond	1020
100 % Bond	1020

Comments

Estimated Top of Cement
(20% Bond Index) @106

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\2017-10-17_extraction_darlenee 29n-20-11c_cbl\2017-10-17_extraction_d
Dataset field/well/run1/pass4.3/_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	239

BOND INDEX

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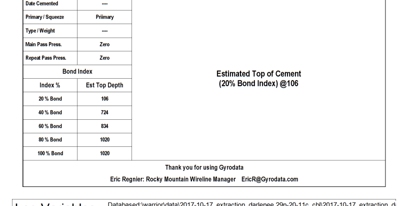
Database File 2017-10-17_extraction_darlenee 29n-20-11c_cbl\2017-10-17_extraction_darlenee 29n-20-11c_cbl.db
Dataset Pathname ./././bndindx
Presentation Format BONDIN~3
Dataset Creation Tue Oct 17 10:54:36 2017
Charted by Depth in Feet scaled 1:7500



MAIN PASS - Ran with 0 PSI

5 in / 100 ft

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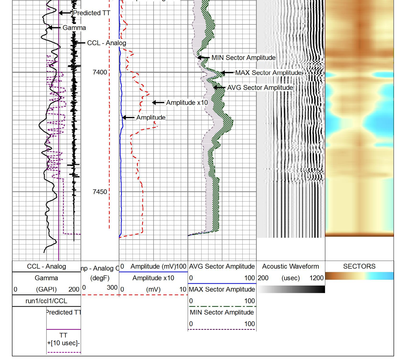
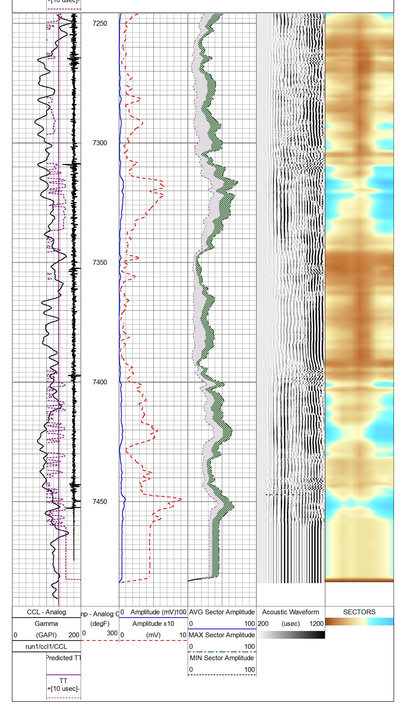
Database File 2017-10-17_extraction_darlenee 29n-20-11c_cbl\2017-10-17_extraction_darlenee 29n-20-11c_cbl.db
Dataset Pathname pass4.3
Presentation Format rcbl_8s
Dataset Creation Tue Oct 17 10:42:33 2017
Charted by Depth in Feet scaled 1:240



REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2017-10-17_extraction_darlenee 29n-20-11c_cbl/2017-10-17_extraction_darlenee 29n-20-11c_cbl.db
Dataset Pathname	pass3.1
Presentation Format	rcbl_8ti
Dataset Creation	Tue Oct 17 10:44:37 2017
Charted by	Depth in Feet scaled 1:240



Calibration Report

Database File	d:\warrior\data\2017-10-17_extraction_darlenee 29n-20-11c_cbl/2017-10-17_extraction_darlenee 29n-20-11c
Dataset Pathname	pass4.3
Dataset Creation	Tue Oct 17 10:42:33 2017

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:	116.000	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.913	0.000	71.921	78.860	-0.053
CAL	-0.008	0.755				
5'	-0.002	0.946	0.000	71.921	75.899	0.139
SUM						
S1	0.029	0.859	0.000	72.000	86.739	-2.539
S2	0.035	1.026	0.000	72.000	72.679	-2.572
S3	0.035	1.168	0.000	72.000	63.547	-2.227
S4	0.030	1.232	0.000	72.000	59.920	-1.807
S5	0.024	1.204	0.000	72.000	61.024	-1.445
S6	0.021	1.094	0.000	72.000	67.118	-1.412
S7	0.023	0.971	0.000	72.000	75.963	-1.762
S8	0.024	0.821	0.000	72.000	90.305	-2.127

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

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.008	0.755	1.000	0.000

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

	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:	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	18.96		CCL_Log-2 3/4" TekCo (IPSN7-03) 450 Deg. CCL	1.83	2.75	33.00
			TekCo-275_Tekco 2 3/4" Tekco Adjustable SPRING Centralizer	2.73	2.75	25.00
TEMP	12.78					
WVFS8	11.49					
WVFS7	11.49		RBTA-2 3/4" RIB Analog (IPPO2-01) Radial Incremented Bond Tool with Temp	9.13	2.75	102.00
WVFS6	11.49					
WVFS5	11.49					
WVFS4	11.49					
WVFS3	11.49					
WVFS2	11.49					
WVFS1	11.49					
WVF3FT	10.74					
WVF5FT	9.74					
WVFSYNC	6.41					
WVFTEMP	6.41					
WVFCAL	6.41					
			TekCo-275_Tekco 2 3/4" Tekco Adjustable SPRING Centralizer	2.73	2.75	25.00
			GR_Log-2 3/4" TekCo (ISHV2-03) 400 Deg. Gamma Ray	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	2017-10-17_extraction_darlenee 29n-20-11c_cbl.db: field/well/run1/pass4.3
Total length:	21.13 ft
Total weight:	235.60 lb
O.D.	2.75 in

Company	Extraction Oil and Gas		
Well	Darlene East 29N-20-11C		
Field	---		
County	Weld		
State	Colorado	Country	U.S.A.