J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	BONANZA CREEK OPERATING CO. LLC
Well	CROISSANT 24-3
Field	WATTENBERG
County	WELD
State	COLORADO

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Well CROISSANT 24-3
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-31475-00
509' FNL & 1983' FWL
SE/SW
SEC 3 TWP 4N RGE 63W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4573
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4583
D.F. 4582
G.L. 4573

Date	15-JUN-2010
Run Number	ONE
Depth Driller	6666
Depth Logger	6642
Bottom Logged Interval	6641 / 4245
Top Log Interval	5630 / 2585
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	220 F
Estimated Cement Top	5770 / 2732
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2337/CR29/25-266
Location	BRIGHTON
Recorded By	GREG JACKSON
Witnessed By	MR. KURT DODGE

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4 1/2	11.6	SURFACE	TOTAL DEPTH
Liner				

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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.

Comments

LOG CORRELATED TO CDN/DIL DATED 10-JUN-2010

THANK YOU FOR CHOOSING J-W WIRELINE!

J-W WIRELINE COMPANY

MAIN PASS

UPPER SECTION

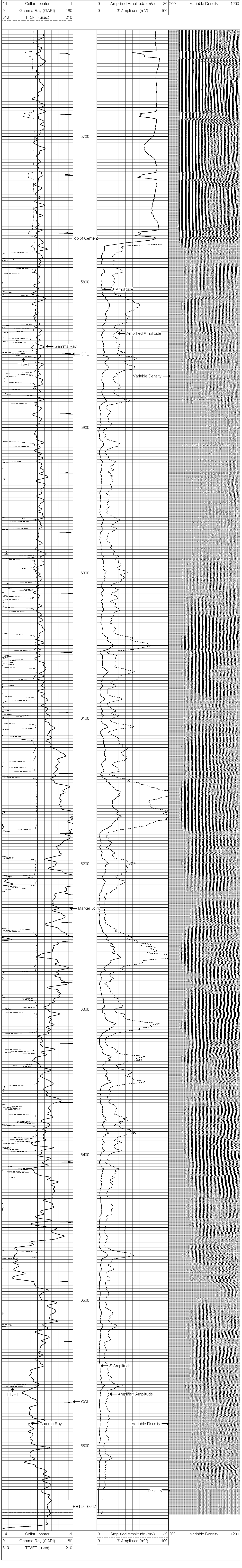
Database File: croissant 24-3_cbl.db
Dataset Pathname: pass4
Presentation Format: scbl_dr
Dataset Creation: Tue Jun 15 13:08:43 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

J-W WIRELINE COMPANY

MAIN PASS

LOWER SECTION

Database File: croissant 24-3_cbl.db
Dataset Pathname: pass2
Presentation Format: scbl_dr
Dataset Creation: Tue Jun 15 12:39:53 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: croissant 24-3_cbl.db
Dataset Pathname: pass4
Dataset Creation: Tue Jun 15 13:08:43 2010 by Log Std Casedhole 08121

Gamma Ray Calibration Report

Serial Number:	101SGR	
Tool Model:	TEKCO	
Performed:	Sun Jun 13 14:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	TEKTMP001	
Tool Model:	TEK2DELTEMP	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	4262.817	ft

Master Calibration, performed Tue Jun 15 13:08:40 2010:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.030	2.233	3.000	81.196	35.489	1.935
CAL	0.030	0.295				
5'	0.030	2.480	3.000	81.196	31.912	2.043
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Fri Aug 31 11:59:29 2007:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.030	0.295	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 18:00:00 1969:

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

Temperature Calibration Report

Serial Number: TEKTMP001
Tool Model: TEK2DELTEMP
Performed: Mon Jan 11 09:09:20 2010

	Reference		Reading	
Low Reference:	0.00	degF	0.00	usec
High Reference:	1.00	degF	1.00	usec

Gain: 0.33
Offset: -37.00
Delta Spacing 2