J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	BONANZA CREEK ENERGY, INC
Well	ANTELOPE 24-20
Field	WATTENBERG
County	WELD
State	COLORADO

Company BONANZA CREEK ENERGY, INC
Well ANTELOPE 24-20
Field WATTENBERG
County WELD State COLORADO
Location: API #: 05-123-33709-00
660' FSL & 1980' FWL
SE/SW
SEC 20 TWP 5N RGE 62W

Other Services
PERF

Permanent Datum	GROUND LEVEL	Elevation 4663	Elevation
Log Measured From	KELLY BUSHING		K.B. 4673
Drilling Measured From	KELLY BUSHING		D.F. 4672 G.L. 4663

Date	11-OCT-2011
Run Number	ONE
Depth Driller	6737
Depth Logger	6680
Bottom Logged Interval	6679
Top Log Interval	3330
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	224 F
Estimated Cement Top	3530
Time Well Ready	ROA
Time Logger on Bottom	--
Equipment Number	2337 / 1
Location	BRIGHTON
Recorded By	GREG JACKSON
Witnessed By	MS. BARB MARTIN

Borehole Record

Run Number	Bit	From	To

Tubing Record

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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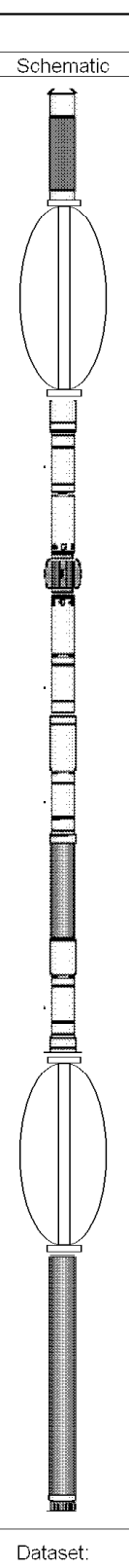
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 HRI/CDN DATED 23-SEP-2011

THANK YOU FOR CHOOSING J-W WIRELINE



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	20.25		CCL-169TEKCO (169) 1 11/16" Tekco Logging	1.67	1.69	20.00
			CENT-TekCo (1 11/16 Adj.) (001) 1 11/16" Tekco Cent	2.92	1.69	10.00
WVF3 WVF5	11.00 10.17		CBL-3-5tekco169 (1) 1 11/16 Tekco w/o Temp	9.75	1.69	70.00
			CENT-TekCo (1 11/16 Adj.) (002) 1 11/16" Tekco Cent	2.92	1.69	10.00
GR	1.00		GR-1.69TEKCO (576) 1 11/16 Tekco Logging GR	3.83	1.69	50.00

Dataset: antelope 24-20_cbl.db: field/well/run1/pass2
Total Length: 21.08 ft
Total Weight: 160.00 lb
O.D. 1.69 in

J-W WIRELINE COMPANY

MAIN PASS

ZERO PSI @ SURFACE

Database File: antelope 24-20_cbl.db
Dataset Pathname: pass3
Presentation Format: cblx
Dataset Creation: Tue Oct 11 08:21:27 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

J-W WIRELINE COMPANY

MAIN PASS - ZERO PSI @ SURFACE

LOG SPLIT FOR CORRELATION

Database File: antelope 24-20_cbl.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Tue Oct 11 07:53:47 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	180	0	3' Amplitude (mV)	100	200	Variable Density	1200
5	Collar Locator	-0.25	0	Amplified Amplitude (mV)	30			
300	TT3 (usec)	200						

Calibration Report

Database File: antelope 24-20_cbl.db
Dataset Pathname: pass2
Dataset Creation: Tue Oct 11 07:53:47 2011 by Log Std Casedhole 10121

Gamma Ray Calibration Report

Serial Number: 576
Tool Model: 1.69TEKCO
Performed: Sun Jun 13 13:33:21 1993

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number: 1
Tool Model: 3-5tekco169
Performed: Tue Oct 11 07:48:38 2011

Depth:	3459.64	ft
Casing Diameter:	4.5	in

	3' Spacing	5' Spacing	
Signal Zero:	3	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.3	0.03	V
Reading in Free Pipe:	2.40554	2.24468	V
Gain:	37.1383	36.6627	
Offset:	-8.14148	-1.09988	