Company BONANZA CREEK ENERGY INC.
Well ANTELOPE 44-31
Field WATTENBERG
County WELD
State COLORADO

J-W WIRELINE COMPANY

# CEMENT BOND
# GAMMA RAY
# COLLAR CORRELATION LOG

Company BONANZA CREEK ENERGY INC.
Well ANTELOPE 44-31
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-32890-00
SHL: 1362' FSL & 1364' FEL SE/SE
BHL: 631' FSL & 674' FEL SE/SE
SEC 31 TWP 5N RGE 62W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4558
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4568
D.F. 4567
G.L. 4558

| | |
|---|---|
| Date | 26-JUL-2011 |
| Run Number | ONE |
| Depth Driller | 6750 |
| Depth Logger | 6708 |
| Bottom Logged Interval | 6707 |
| Top Log Interval | 2550 |
| Open Hole Size | 7 7/8 |
| Type Fluid | WATER |
| Density / Viscosity | — |
| Max. Recorded Temp. | 224 F |
| Estimated Cement Top | 2715 |
| 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 | | | | 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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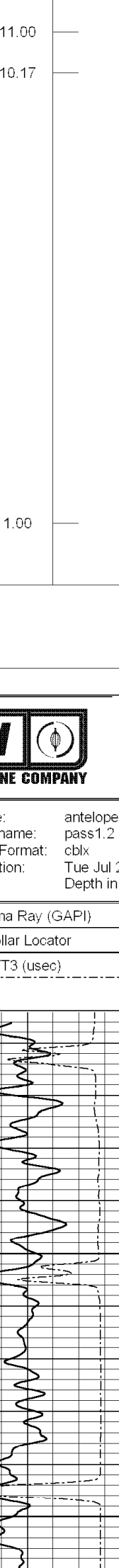
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 HRI/CDN DATED 16-JUL-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)<br>1 11/16" Tekco Logging | 1.67 | 1.69 | 20.00 |
| | | | CENT-TekCo (1 11/16 Adj.) (001)<br>1 11/16" Tekco Cent | 2.92 | 1.69 | 10.00 |
| WVF3 | 11.00 | | CBL-3-5tekco169 (1)<br>1 11/16 Tekco w/o Temp | 9.75 | 1.69 | 70.00 |
| WVF5 | 10.17 | | | | | |
| | | | CENT-TekCo (1 11/16 Adj.) (002)<br>1 11/16" Tekco Cent | 2.92 | 1.69 | 10.00 |
| GR | 1.00 | | GR-1.69TEKCO (576)<br>1 11/16 Tekco Logging GR | 3.83 | 1.69 | 50.00 |

Dataset: antelope 44-31_cbl.db: field/well/run1/pass1
Total Length: 21.08 ft
Total Weight: 160.00 lb
O.D. 1.69 in

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## MAIN PASS

Database File: antelope 44-31_cbl.db
Dataset Pathname: pass1.2
Presentation Format: cblx
Dataset Creation: Tue Jul 26 11:52:14 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

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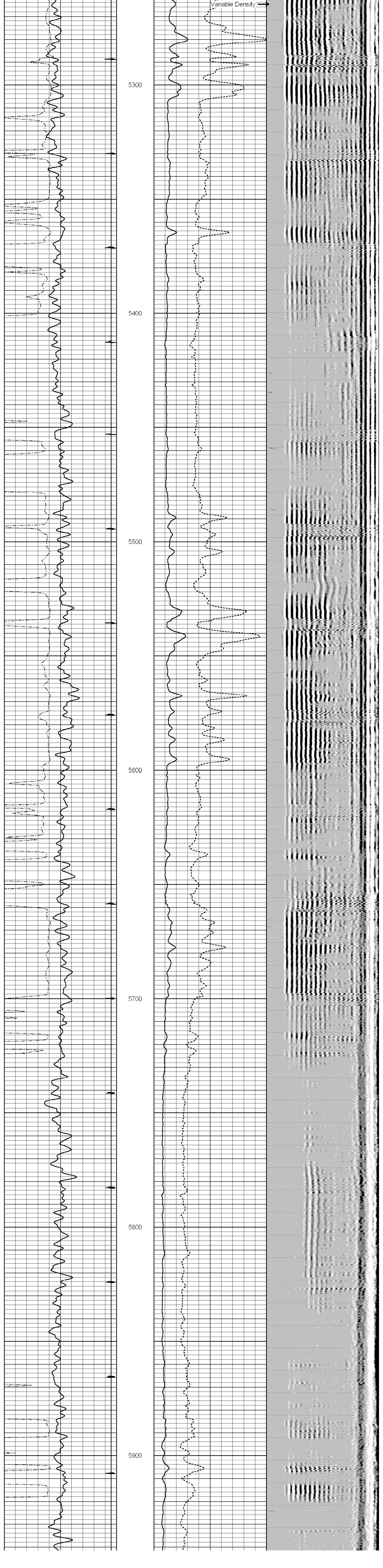
## MAIN PASS

LOG SPLIT FOR CORRELATION

Database File: antelope 44-31_cbl.db
Dataset Pathname: pass1.1
Presentation Format: cblx
Dataset Creation: Tue Jul 26 11:50:33 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240



## Calibration Report

| | |
|---|---|
| Database File: | antelope 44-31_cbl.db |
| Dataset Pathname: | pass1 |
| Dataset Creation: | Tue Jul 26 10:15:44 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 Jul 26 10:00:05 2011 | | |
| Depth: | 2614.97 | 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: | 0.06 | 0.05 | V |
| Reading in Free Pipe: | 1.73809 | 2.03669 | V |
| Gain: | 46.5984 | 40.87 | |
| Offset: | 0.204097 | -2.0435 | |