**CORNISH** WIRELINE SERVICES, INC. CHANUTE, KANSAS

# GAMMA RAY NEUTRON CEMENT BOND COMPLETION LOG

Company SOUTHWINDS ENERGY, LLC.
Well MELANDER #35
Field WAYSIDE-HAVANA
County MONTGOMERY
State KANSAS

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Location: API # : 15-125-32244-00-00
2210' FNL & 360' FEL
NW SE SE NE
SEC 2 TWP 34S RGE 14E

Other Services

| | | |
|---|---|---|
| Permanent Datum | GL | Elevation 890' EST |
| Log Measured From | GL | |
| Drilling Measured From | GL | |

Elevation
K.B.
D.F.
G.L. 890' EST

| | | | |
|---|---|---|---|
| Date | 9-18-12 | | |
| Run Number | 1 NW | | |
| Depth Driller | | | |
| Depth Logger | 705.3' | | |
| Top Log Interval | 0 | | |
| Bottom Logged Interval | 705.3' | | |
| Fluid Level | FULL | | |
| Type Fluid | WATER | | |
| Production Casing | 2 7/8" @ TD | @ | @ |
| Max. Recorded Temp. | | | |
| Estimated Cement Top | | | |
| Calculated Cement Top | | | |
| Amount & Type Cement | | | |
| Amount & Type Admix | | | |
| Drilling Contractor | | | |
| Equipment Number | 109 | | |
| Location | | | |
| Recorded By | SANBORN, G. | | |
| Witnessed By | DAVIS, A. | | |

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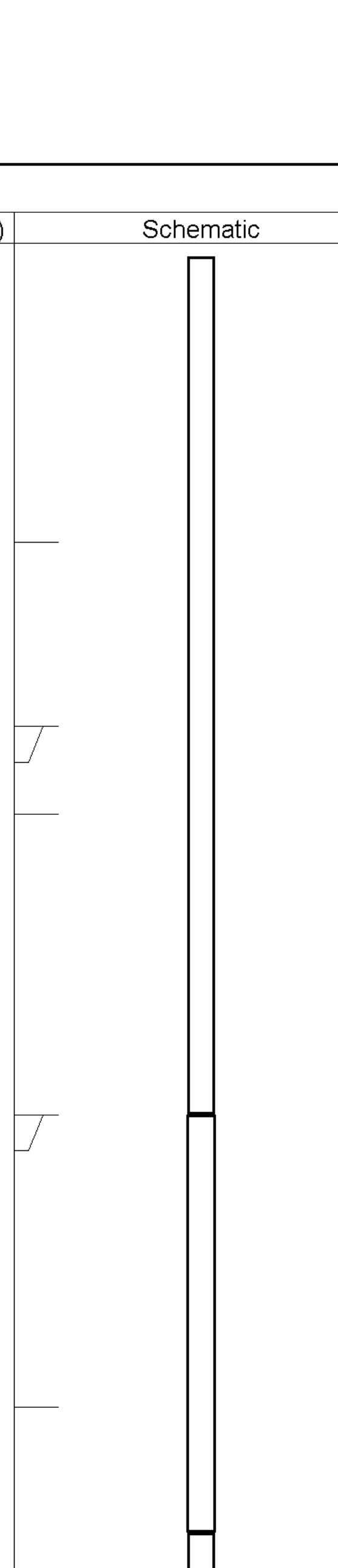
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

THANK YOU



| Sensor | Offset (ft) | Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|---|---|
| TEMP | 17.12 | | | | |
| WVF3FT<br>WVFCAL | 15.03<br>15.03 | CBLTEKCO-168 1x2 w Temp (Del) (010)<br>Tekco 400 Deg F 1 11/16" Dual Receiver with Temp | 9.75 | 1.69 | 50.00 |
| WVF5FT | 14.03 | | | | |
| WVFTEMP<br>WVFSYNC | 10.62<br>10.62 | | | | |
| GR | 7.29 | GR-TITAN_169 (TIT169_001)<br>Titan 1 11/16" Gamma Ray | 4.75 | 1.69 | 20.00 |
| CCL | 4.73 | CCL-TITAN (TITN)<br>TITAN 1 11/16 CCL | 1.53 | 1.69 | 8.00 |
| NEU | 0.63 | NEU-TITAN (TIT801)<br>TITAN 1 11/16" Neutron | 4.33 | 1.69 | 25.00 |

Dataset: melander #35.db: field/well/run1/pass1
Total Length: 20.37 ft
Total Weight: 103.00 lb
O.D. 1.69 in

Database File: h:\melander #35.db
Dataset Pathname: pass1
Presentation Format: scbl_dr
Dataset Creation: Tue Sep 18 11:44:02 2012 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

Database File: h:\melander #35.db
Dataset Pathname: pass1
Presentation Format: gr-n-ccl
Dataset Creation: Tue Sep 18 11:44:02 2012 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

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| | |
|---|---|
| Company | SOUTHWINDS ENERGY, LLC. |
| Well | MELANDER #35 |
| Field | WAYSIDE-HAVANA |
| County | MONTGOMERY SEC. 2 TWP. 34S RGE. 14E |
| State | KANSAS Date 9-18-12 |