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AMBITIOUS DRILLING PROGRAM ON MATOUSH

Montreal, December 1st, 2009 - Strateco Resources Inc. ("Strateco") is pleased to provide an update on its 2009 drilling program and its 2010 and 2011 drilling objectives for the Matoush project, located 275 km north of Chibougamau in Quebec's Otish Mountains.

Context

The Matoush uranium structure has been traced by geophysics for a distance of 13.8 km, from Section 148+00S (the border with Cameco's property) to Section 10+00S, towards north.

The Matoush structure crosses three properties:

Property	Section	Interest
Eclat	148+00S to 64+50S	100%
Matoush	64+50S to 18+50S	100%
Eclat Nord	18+50S to 0+00S	100%

Mineral resources (see press release dated September 17, 2009) have only been defined on a small portion of the Matoush project, between sections 37+35S and 24+00S, representing a distance of approximately 1.35 km. Since 2006, Strateco has devoted a large proportion of its exploration efforts and financial resources to this section of the Matoush project.

Since September 2009 and for the next two years, 2010 and 2011, Strateco plans to concentrate the bulk of its exploration efforts to the Matoush structure, and more precisely to the ACF-4, which starts at a vertical depth of about 400 metres and extends to a vertical depth of about 850 metres. It was in the ACF-4 that Strateco discovered the MT-22 and MT-34 zones in 2008. The ACF-3, which hosts the AM-15 zone and lies between a vertical depth of 200 and 250 metres, is not expected to be tested by the upcoming drilling program. Even though, the ACF-3 still holds potential to find lenses similar to the AM-15, which holds indicated resources of 4.03 million pounds U₃O₈.

Exploration Drilling Program

The 125,000-metre drilling program, including the 5,000 metres drilled since September 2009, is aimed at establishing whether the Matoush structure has the potential to contain over 60 million pounds of U_3O_8 . The program budget is in the order of \$16 million.

The drill results obtained to date clearly show that the entire length of the Matoush structure (13.8 km) could be mineralized.

Holes are initially drilled on a systematic 200-metre spacing. 17 holes have been completed since systematic exploration began, and about 40 more holes are required to cover the entire structure at a vertical depth of about 420 metres. All the holes drilled during the 2009 drilling campaign on this spacing have intersected the typical alteration envelope seen in the AM-15, MT-22 and MT-34 mineralized zones. Uranium mineralization with various grades and lengths was intersected by the 17 drill holes with the exception of three which gave anomalous readings.

Drill hole results and the longitudinal sections can be seen on Strateco's website (www.stratecoinc.com).

Beginning in late January 2010, three drills will be working full time to systematically explore the best targets identified during this first phase. While only a small part of the first phase has been completed this far, new targets have already been defined. The main targets are on the Eclat property (Drill holes EC-09-05, 06 and 08) and the Matoush property (Drill holes MT-09-35, 36 and 38).

These results are similar and in some cases better, like drill hole MT-09-36 which has intersected 0.26% eU_3O_8 on 4.7 metres, to those located near the high grade drill results of the MT-22 and MT-34 zones.

The next two years will be exciting and revealing from the point of view of surface exploration.

In terms of underground exploration work, Strateco filed its environmental impact study and licence application on November 6, 2009 (see press release dated November 11, 2009).

This news release has been approved by Jean-Pierre Lachance, Geol., Executive Vice President of Strateco Resources Inc., who is the qualified person as defined in National Instrument 43-101.

This news release contains forward-looking statements subject to certain risks and uncertainties. There can be no assurance that these statements will prove to be correct, and actual results and future events could differ materially from those implied by such statements. These risks and uncertainties are discussed in the annual report filed with the securities commissions of Alberta, British Columbia, Ontario and Quebec and in the 10-K annual report filed with the US Securities and Exchange Commission.

CAUTIONARY NOTE TO U.S. INVESTORS -The United States Securities and Exchange Commission permits U.S. mining companies, in their filings with the SEC, to disclose only those mineral deposits that a company can economically and legally extract or produce. We use certain terms on this press release, such as "measured," "indicated," and "inferred" "resources," which the SEC guidelines strictly prohibit U.S. registered companies from including in their filings with the SEC. U.S. Investors are urged to consider closely the disclosure in our Form 10-K which may be secured from us, or from the SEC's website at <http://sec.gov/edgar.shtml>.

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For more information, contact:

STRATECO RESOURCES INC.

Guy Hébert
President and Chief Executive Officer
ghebert@bbhgm.com

Jean-Pierre Lachance
Executive Vice President
jplachance@bbhgm.com

Audrey Vézina Angus
Investor Relations
avezina@bbhgm.com
Tel: 450.641.0775
1.866.774.7722
Fax: 450.641.1601

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