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EXPLORATION LIMITED

TSX-V: HAT

NEWS[2008](#)[2007](#)[2006](#)[2005](#) [PRINTER FRIENDLY PAGE](#) [EMAIL THIS PAGE](#)**News Releases****May 23, 2007****Airborne Gravity Starts Over Russell South Uranium Property, Athabasca Basin**

Vancouver, B.C., Canada, May 23, 2007 -- Hathor Exploration Limited (HAT: TSX-V) is pleased to announce that it has initiated an airborne Three-Dimensional Full Tensor Gravity Gradiometry ("3D-FTG") geophysical survey over its 25,928 hectare (64,069 acre) Russell South property.

The Russell South uranium project is comprised of eight claims that are either 90 or 100 percent owned by Hathor's subsidiary Roughrider Uranium Corp. The property is centred about 17 km to the northeast of the Deilmann open pit of the formerly-producing Key Lake uranium mine (historic production of ~ 184 million lbs U3O8). The Key Lake mill facilities, owned by Cameco Corporation and AREVA Resources Canada Inc., are now used to produce 18.7 million pounds U3O8 annually from their McArthur River mine ores. The road and the power transmission line servicing the McArthur River Mine transects portions of Hathor's Russell South property.

The Russell South property covers both the Western Wollaston geological domain (the geology that hosts the McArthur River mine) and also the Western Wollaston-Eastern Wollaston transition zone geology that is an important ore-forming parameter in uranium metallogenesis at the Maverick zone on the adjoining Moore Lake property of Denison Mines Corp. and JNR Resources Inc.

The approximately 2,000 line-kilometre (at 300 metre line spacing) 3D-FTG survey is being performed by Bell Geospace Inc. of Houston, Texas and employs one of the most sophisticated geophysical systems ever developed to measure changes (gradients) in the earth's gravity field. These gravity gradients are caused by subsurface density differences in local rock types which can be related to regional- and prospect-level geological features such as structures (fault zones), lithological contacts, alteration zones and variations in Athabasca Group sandstone thickness. For a more complete description of the Bell Geospace 3D-FTG survey system, please see the Hathor news release dated May 1, 2007.

This gravity survey is being completed together with two other 3D-FTG surveys over Hathor's adjoining Russell Lake JV project and the McArthur River mine property of Cameco and AREVA. Once completed, approximately 4,880 line km of shared data from these 3 surveys will provide Hathor with a comprehensive understanding of the gravity profile of a large portion of the southeast Athabasca Basin. Imaging and modeling of 3D-FTG density features, in combination with geological data from historic drilling, on-going seismic survey coverage and other geophysical inputs, will help Hathor to: 1) better understand the geology of the southeastern Athabasca region; 2) refine the overall geological model of the Russell South property; and 3) better define diamond drill targets at Russell South.

Hathor continues to aggressively advance its portfolio of eight exploration projects in the eastern Athabasca area of mining-friendly Saskatchewan; the world's premiere region for uranium production accounting for approximately 28 per cent of the world's annual mine supply of U3O8. For more information on Hathor and its uranium projects please visit our web site at <http://www.hathor.ca> or contact Stephen Stanley at 604-684-6707.

Hathor Exploration Limited*"Stephen G. Stanley"*

Stephen G. Stanley, Director

The TSX Venture Exchange has not reviewed and does not accept responsibility for the adequacy or accuracy of the content of this news release.

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