

# Peninsula Minerals<sub>of</sub>

21 January 2008

Companies Announcement Office  
*Via Electronic Lodgement*

## URANIUM EXPLORATION UPDATE – WYOMING AND SOUTH AFRICA

### PERMITTING PROCESS COMMENCES IN WYOMING

Peninsula Minerals Limited ("**Company**") is pleased to announce that the environmental permitting process for the planned drill program has commenced at the Lance (previously named Sundance) uranium project, located in the north-east Powder River Basin in Wyoming, USA (**Lance Project**).

It is envisaged that the drill program will commence in May 2008 with completion expected in July 2008. The main objectives of the program are to firstly confirm the historic uranium mineralisation at the Lance Project area and secondly to conduct sufficient drilling to extend these historic resources to produce a JORC compliant resource estimate, at this stage planned for September 2008.

The Lance Project area hosts significant deposits of uranium mineralisation covering an extensive area (35 kilometres by 8 kilometres). The original Nubeth Joint Venture, (a joint venture between Nuclear Dynamics Inc and Bethlehem Steel Corporation) (**Nubeth JV**), discovered several substantial zones of uranium mineralisation, including the Oshoto deposits, associated with an extensive system of roll fronts. In addition the Nubeth JV drilled more than 5,000 exploration and development holes over an eight year program, totaling in excess of 912,000 metres in the Sundance district. The Company has recently intensified its program of claim "staking" and negotiation with landowners and mineral rights holders to secure further strategic portions of the original Nubeth JV project area.

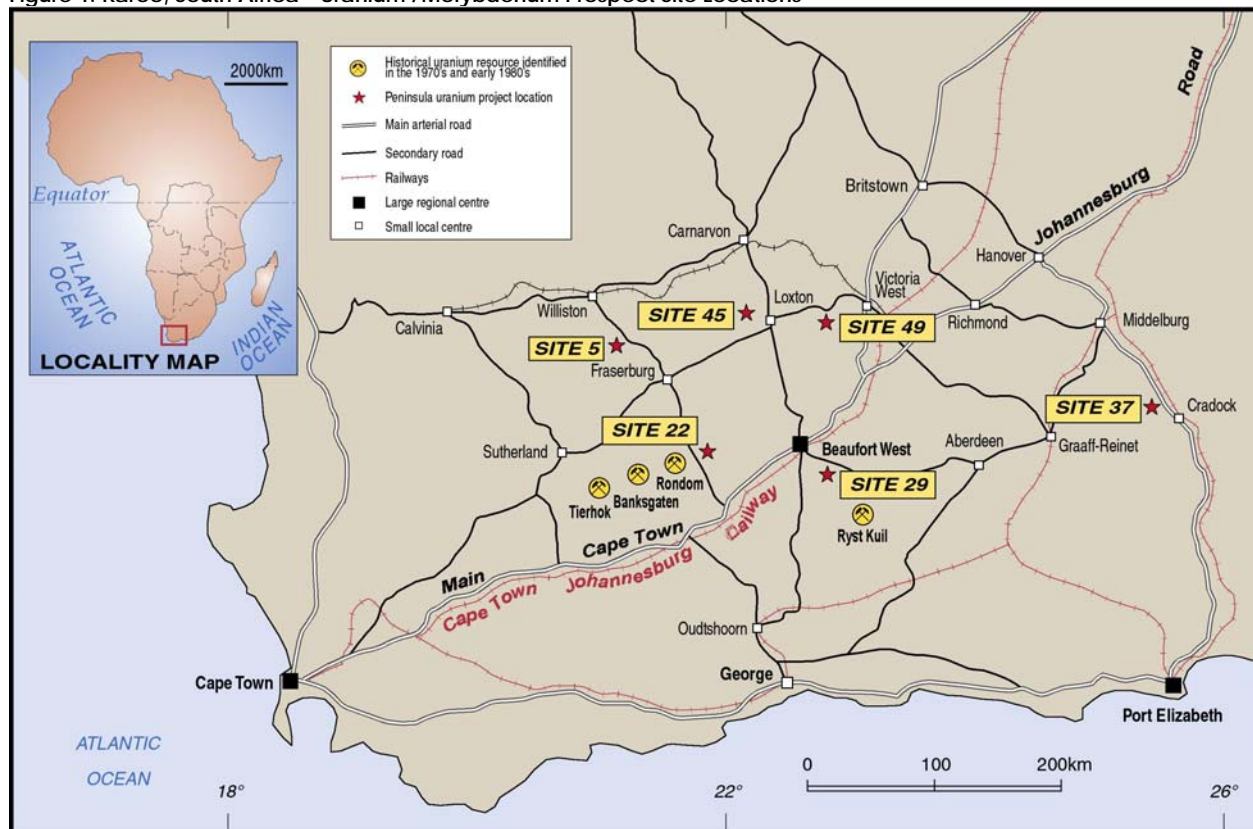
### AIRBORNE MAGNETIC AND RADIOMETRIC SURVEY COMMENCES IN SOUTH AFRICA

In addition to the above, the Company has commissioned Fugro Airborne Surveys (Pty) Ltd to carry out a helicopter borne magnetic and radiometric survey (**Airborne Survey**) over the Company's uranium/molybdenum properties - comprising Sites 5, 22, 29, 45, 49 and 37 in the Karoo region of South Africa (refer Figure 1).

The Airborne Survey commenced on January 20, 2008 and will cover an approximate 1,985km<sup>2</sup> area, at a minimum line spacing of 100 metres. (A historic government airborne survey of the Karoo region was previously conducted at a line spacing of one kilometre).

The commissioning of the Airborne Survey will enable the Company to accelerate its exploration program to compensate for delays experienced in the granting of the Prospecting Rights. It is envisaged that the Airborne Survey will be completed within 6-8 weeks of commencement with results received by the Company 4-5 weeks following completion. Data from the Airborne Survey will be interpreted and anomalies will be ground checked, mapped geologically and prioritised for drill testing.

Figure 1: Karoo, South Africa - Uranium /Molybdenum Prospect Site Locations



Previous exploration for uranium was conducted over the Karoo region through the late 1960's and into the early 1980's. Many sandstone-hosted uranium deposits and prospects were identified but little analysis was carried out for the associated molybdenum, due to prevailing low prices for that metal. Private exploration in the region ceased in the early 1980's after the worldwide fall in the demand for uranium, but the South African Government Geological Survey completed a broad spaced airborne radiometric survey and then conducted surface sampling of radioactive anomalies located by the airborne survey. The government identified significant uranium and molybdenum mineralisation at each of the six Prospecting Rights through surface rock samples but there has been no follow-up work conducted on these projects since the Geological Survey work was undertaken.

In addition, Sites 22, 29 and 45 each host historic uranium resources. It is planned to conduct drilling at these project areas in the third quarter to verify the mineralisation and bring the resources to JORC status.

## **BOARD COMPOSITION CHANGE**

The Company also wishes to advise that Ms Jade Styants has resigned as Finance Director of effective today. The Board wishes to thank Ms Styants for her efforts and contribution to the Company.

Yours Sincerely



**John (Gus) Slmpson**  
**Executive Chairman**

For further information, please contact our office on (08)9420 9333 during normal business hours.

## **Competent Person**

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Andrew Ford, who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Ford is a full-time employee of the Company. Mr Ford has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Ford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.