MODS report of uranium occurrences on the mineral licence 032195M.

**WHITE BEAR URANIUM #3**

**DESCRIPTION OF DEPOSIT**

    The showing consists of several large (< 10 to 20 kg) tabular radioactive boulders interpreted to the sub-outcrop of biotite rich metatuff, assigned to the Ordovician Bay du Nord Group.

**METAL/MINERAL CONTENT**

Sample   Uppm    %U3O8     Pounds per tonne U3O8  Desc.  
              (calculated)    (calculated)  
54336A  4745.8   0.56           12.31             boulder  
54338   3968.9   0.47           10.30             boulder  
54334   2158.3   0.25            5.60             outcrop  
54335   1333.2   0.16            3.46             boulder  
54339   1249.3   0.15            3.24             boulder  
54337   726.5    0.09            1.88             boulder  
Rock chip aggregates comprising 2-3 kg each (July 2005 results, Commander Resources company website)  
  
Sample  U3O8  Pounds per tonne U3O8   Grab sample  
       (assay)   (calculated)          description  
54334   0.512      11.26              angular boulder  
54336   0.754      16.59              angular boulder  
54345   0.564      12.41              angular boulder  
(August 2005 results, Commander Resources company website)

**GEOCHEMICAL EXPRESSION**

    Uranium assays of grab samples from radioactive zones in the area of White Bear showing (O'Brien and Tomlin, 1985).  
Sample No.              Rock Type            U (g/t)  
1940601                 nonwelded tuff        3,990      
1940603                 nonwelded tuff        4,290      
1940604                 nonwelded tuff        4,240      
1940605                 nonwelded tuff        4,330      
1940606                 nonwelded tuff        4,240

**DOUCETTE PROSPECT**

**METAL/MINERAL CONTENT**

    Sixteen composite rock chip samples returned values ranging from 0.13% to 1.32% U308.  Six of the samples contained in excess of 0.67% U308 (Commander Resources Ltd. press release, Nov. 1, 2005).  
  
Significant uranium values in drill core at Doucette are shown below  
  
DDH#         From     To    Length   %U308    lb/ton U308  
WBR-07-09    15.0   15.4    0.40m    0.10        2.0  
WBR-07-10   191.6  192.0    0.40m    0.11        2.2  
WBR-07-13    16.5   16.8    0.30m    0.04        0.8  
  
(Commander Resources press release, June 4, 2007).

**STRUCTURE OF DEPOSIT**

|  |
| --- |
| **Shape:**   Undefined |
| **Shape Modifier:**   Folded |
| **Length (m):**   1500 |
| **Width (m):**   150 |

**GEOPHYSICAL EXPRESSION**

    A close spaced grid of magnetic surveying on the White Bear area covered both boulder fields at the Doucette and #3 uranium prospects, which are separated by about 500 metres. The northern and southern portions of the grid show a low level, flat response, while a central 300 metre wide belt shows a very active magnetic response. The active magnetic response covers a portion of the Doucette Prospect and extends for 300 metres further up ice. Magnetic signature in this area is consistent with the measured response of the uranium bearing rocks of the Doucette Showing and may represent the source rock of this uranium mineralization (Commander Resources press release, Mar. 27, 2006).

Many of the higher-grade boulders were strongly magnetic and showed strong deformation and folding characteristics.  A detailed ground magnetmeter survey was completed to identify areas of cross-structures and folds, which may represent thickened and enriched uranium drill targets (Commander Resources press release, June 4, 2007).

**GEOCHEMICAL EXPRESSION**

    Anomalous soil values, ranging from 3 to 14 times background (background is 1 ppm uranium), are found from the main boulder discovery area over at least 300 metre strike length. The uranium grades shown at Doucette and size potential of a sandstone hosted deposit make this an attractive source target area (Commander Resources press release, Mar. 27, 2006).

**He2 Showing**

**METAL/MINERAL CONTENT**

    Assay results included maximum values of 2.79% and 1.64% U308 recorded from boulders and six other significant rock chip samples from boulders assayed from 0.15% to 0.28% U308, while five samples had anomalous values from 429 ppm to 762 ppm (Commander Resources press release, July 18, 2006).  
  
  
Significant uranium values in drill core at He2 are as follows:  
  
DDH#        From   To      Length   %U308  lb/ton U308  
WBR-07-01   64.0   64.35   0.35m    0.024     0.5  
WBR-07-16   22.6   22.8    0.20m    0.10      2.0  
  
(Commander Resources press release, June 4, 2007).

**GEOPHYSICAL EXPRESSION**

    Two boulders gave readings of 18,500 and 20,000 counts per second (cps) which are the highest recorded to date on the Hermitage Project area (Commander Resources press release, June 8, 2006).  
  
    A radon gas anomaly extends for more than one kilometre northeast along-strike from the current drilling (Commander Resources press release, June 4, 2007).

**GEOCHEMICAL EXPRESSION**

    Tools found effective in targeting near-surface uranium mineralization include radon gas (alpha cup), ground spectrometer, soil and ground magnetic surveys, all of which have shown positive correlation to the uranium zones (Commander Resources press release, June 4, 2007).

Table

Description automatically generated

*\*Retrieved from Pilgrim (2007) report for Commander Resources Ltd.*

Map

Description automatically generated

**Location of Drillholes**