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AIRCRAFT Type: Aerospatiale AS350B-2 (Blocks 2,4) Registration: C-FXFU Registration: C-GEOZ

ELECTROMAGNETIC SURVEYS 15 m below aircraft (Blocks 2,4) 13 m below aircraft (Block 3)

Shaded colour image of the second vertical derivative of the residual magnetic field

Peak dipole moment: 450 000 Am² (Block 1) 486 300 Am² (Block 4) 7600 µsec (Block 3) 26' 18 333 µsec (Block 3)

Bird location: 42 m below aircraft (Block 1) Cormick Lake
creek Conboy Lake Saturday Lake

NAVIGATION SYSTEM Radar altimeter: Terra 3000/TRI-40 Guidance system: Geotech Magnetometer: Geometrics caesium-vapour Magnetometer sample interval: 1 reading per second

Survey date: February 4, 2007 to February 17, 2007 (Block 1) January 24, 2008 to February 12, 2008 (Block 2) March 29, 2006 to April 28, 2006 (Block 3) October 6, 2007 to January 21, 2008 (Block 4)

Traverse line direction: North-South (Blocks 1,2,3) E4°S (Block 4)

Overburden thickness: 3 m Window size: 10 x 10 cells (400 m x 400 m)

Central scale factor: 0.9996

Data purchased from: Chalice Diamond Corp. (Blocks 1,2,4)

Location Map 1 cm equals 10 km

This map was compiled from multiple proprietary airborne data using the Geotech VTEM helicopter-borne magnetic and electromagnetic system. The aircraft were also equipped with illumination declination = 45°

The shaded relief parameters are:

Illumination inclination: 45°
Illumination declination: 45°
Magnetic declination on July 1, 2007, for the centre of the map

The cylinder model parameters are as follows:

Cylinder diameter: 200 m Cylinder length: infinite Overburden thickness: 3 m Window size: 10 x 10 cells (400 m x 400 m)

Possible kimberlite targets have been identified from the residual magnetic intensity data, based on the identification of roughly irregular geometry may not.


