



ADDRESS
PO Box 35
North Perth
WA 6906 Australia

PHONE
+61 (8) 9295 0388
FAX
+61 (8) 9295 3480

EMAIL
info@frontierresources.com.au
WEBSITE
www.frontierresources.com.au

ABN 96 095 684 389
ASX : FNT

ASX Limited
Company Announcements Office
Announcement

11th January 2011

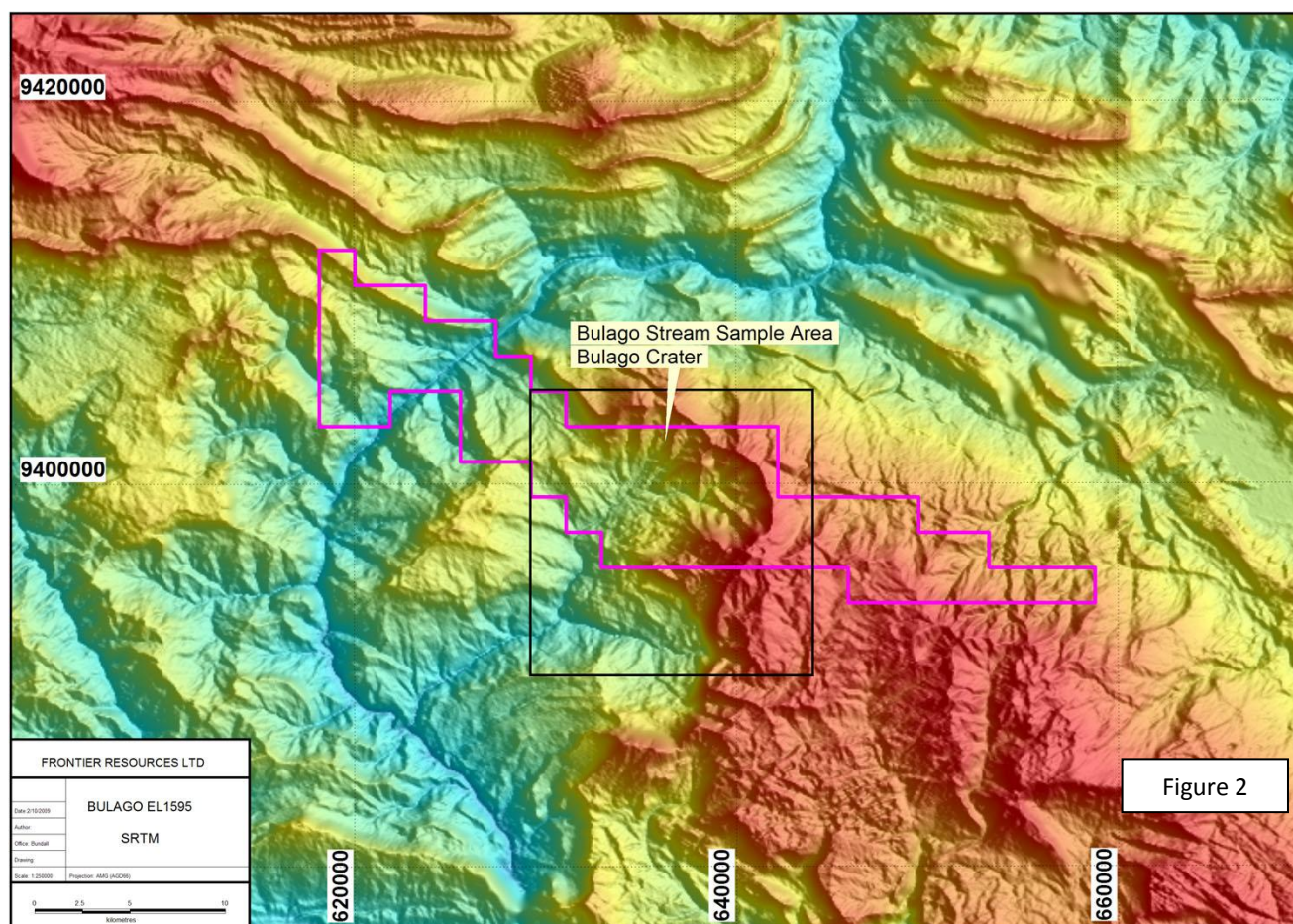
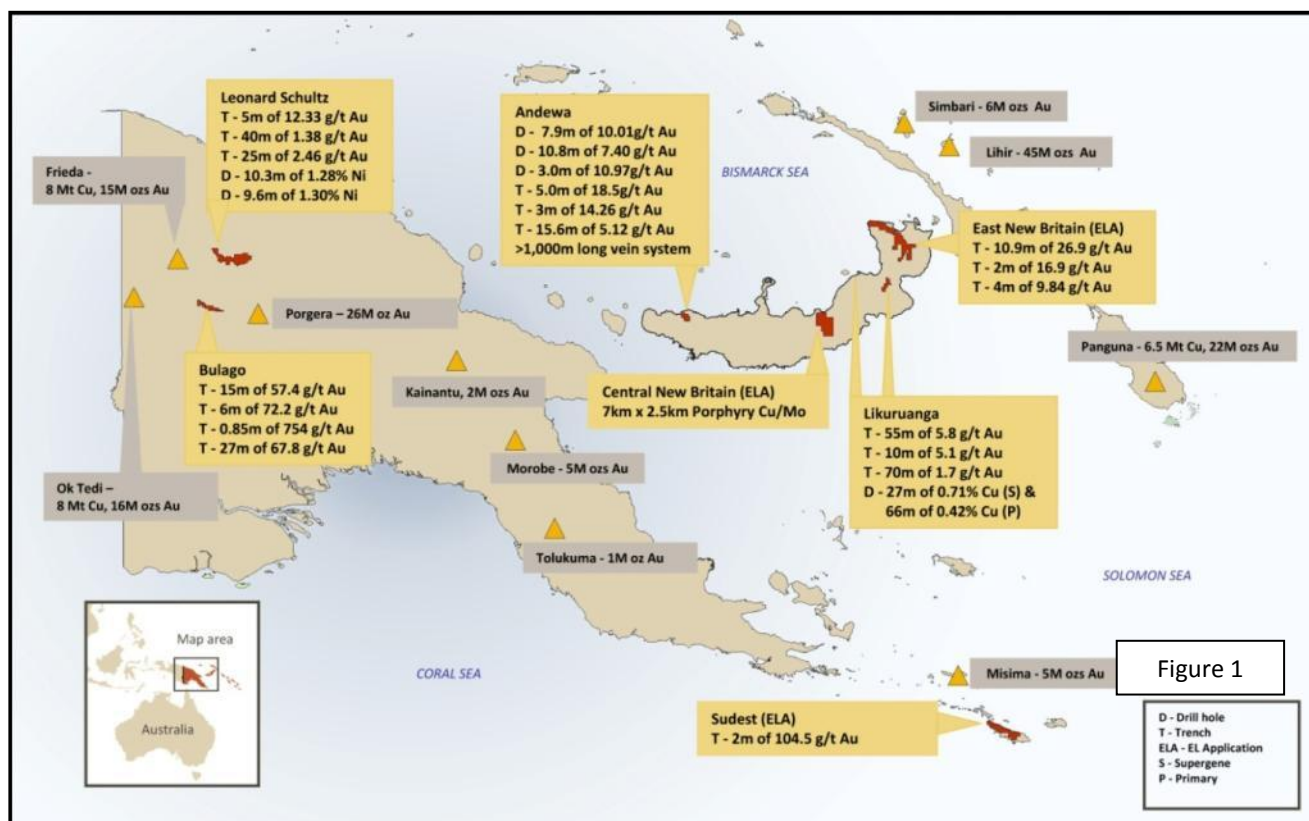
Major Aeromagnetic - Radiometric Geophysical Survey Completed by Ok Tedi Mining Ltd at the Bulago Joint Venture

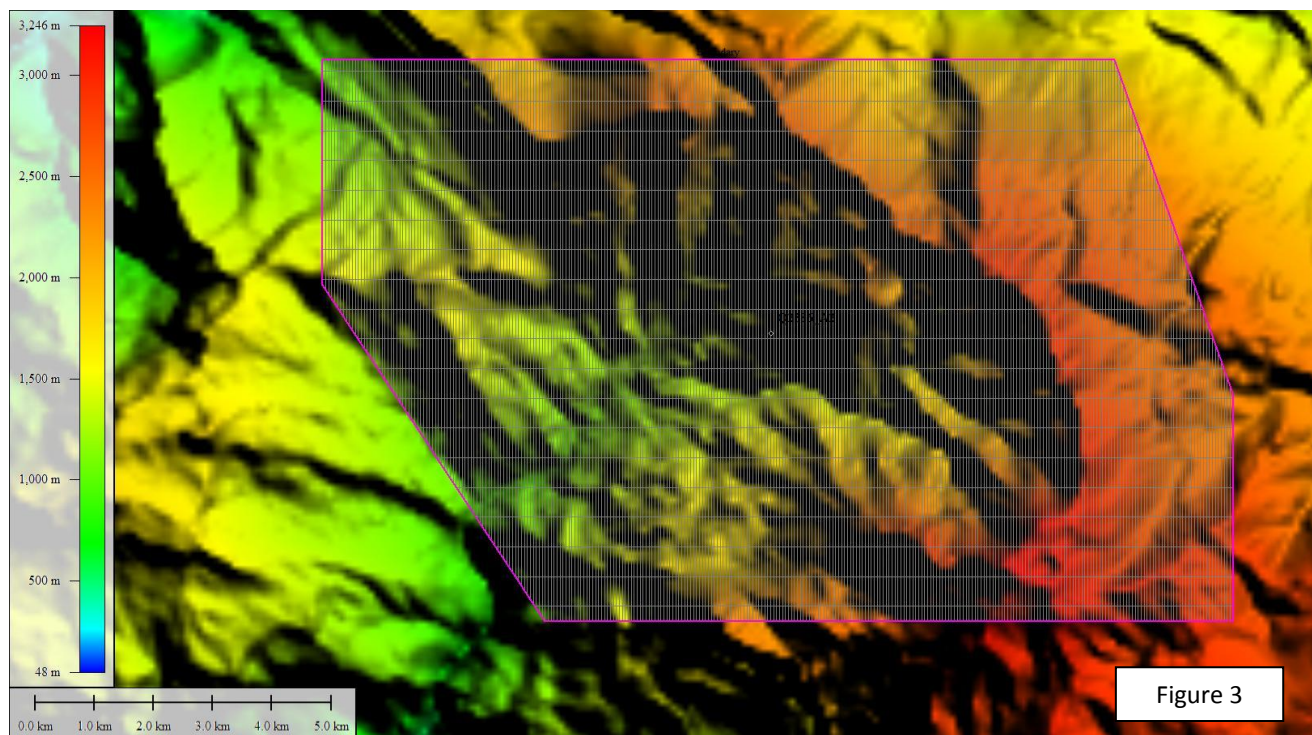
- A large and very detailed aeromagnetic and radiometric geophysical survey has been completed by OTML Ltd at the Bulago Joint Venture (EL 1595), located near the Strickland River, in Southern Highlands Province in the NW of Papua New Guinea (figures 1 and 2).
- Interpretation of the survey data will be undertaken by specialist geophysical consultants in conjunction with OTML and should become available in 2 to 3 months.
- The geophysical data will then be integrated with the existing geological and geochemical information to discriminate and rank targets for follow up exploration, potentially including drilling.
- The geophysical survey covers the Exploration License (EL 1595) at a 50m sensor height on 50m traverse spacing, with 500m spaced tie lines, for approximately 2,848 line kilometres total (figure 3).
- In addition to the digital aeromagnetic and radiometric data, images will be produced of Total Magnetic Intensity -TMI (and derivative enhanced TMI), radiometrics and the digital elevation model for evaluation.
- Trench channel sample assay results have previously included 27m of 66.8 g/t gold, 7.5m of 67.0 g/t gold, 18m of 40.3 g/t gold and 1.5m of 5.59 g/t gold+ 2,555 g/t silver+ 2.17% copper+ 3.16% zinc.
- In May 2010 Frontier and OTML established a Joint Venture that relates to 3 ELs and 2 EL Applications in PNG.
 - OTML have the option to earn 58% of EL 1595 by spending US\$12 million within 6 years.
 - Frontier is carried from completion of earn-in to the completion of a Bankable Feasibility Study, with pro-rata (carried) repayments from 50% of its future metal sales.
 - Under certain circumstances, OTML can purchase up to 80.1% equity in the project.
- For additional information relating to Frontier Resources please visit our website at www.frontierresources.com.au or feel free contact me.

FRONTIER RESOURCES LTD

P.A. McNeil, M.Sc.
MANAGING DIRECTOR

The information in this report that relates to Exploration Results is based on information compiled by, or compiled under the supervision of Peter A. McNeil - Member of the Aust. Inst. of Geoscientists. Peter McNeil is the Managing Director of Frontier Resources, who consults to the Company. Peter McNeil has sufficient experience which is relevant to the type of mineralisation and type of deposit under consideration to qualify as Competent Person as defined in the 2004 Edition of the Australasian Code of Reporting Exploration Results. Peter McNeil consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.





Survey plan and boundary coordinates