



## Occurrence Details

**Occurrence Number:** 105G 068  
**Occurrence Name:** Ash  
**Occurrence Type:** Hard-rock  
**Status:** Prospect  
**Date printed:** 8/6/2025 12:42:46 AM

## General Information

**Secondary Commodities:** copper, lead, zinc  
**Deposit Type(s):** Unknown  
**Location(s):** 61°13'17" N - 130°34'59" W  
**NTS Mapsheet(s):** 105G02  
**Location Comments:** .5 Kilometres  
**Hand Samples Available:** No  
**Last Reviewed:**

### Capsule

#### Work History

Staked by Atlas Explorations Ltd as Ash cl 1-36 (Y7337) in Apr/66 over a geophysical anomaly found by an airborne survey earlier in the year. Explored by ground mag & EM surveys, soil sampling and mapping later in the year. In Mar/74, L. Tyerman staked this anomaly as T & B cl (Y74555). In July/94 Cominco Ltd covered the anomaly with the Rife cl 1-52 (YB50189) in response to anomalies resulting from a regional airborne survey conducted earlier in the year. Limited geological, geochemical and geophysical surveys were completed following the staking. In Jul/96 Cominco added Rife cl 53-92 (YB84663) to the west, conducted one day of prospecting and completed 1 diamond drill hole (130.7 m). In May/97 Cominco carried out 1.3 km of HLEM/MAG and gravity surveys on the ice at the north end of Fire Lake.

#### Capsule Geology

The Finlayson Lake district is underlain by the Yukon-Tanana Terrane: a Late Proterozoic to Paleozoic metamorphosed volcano-sedimentary assemblage. It is regionally bounded to the southwest by the Tintina Fault. This terrane hosts several known volcanogenic massive sulphide (VMS) deposits and occurrences, including Kudz Ze Kayah (Minfile Occurrence #105G 117), Wolverine (Minfile Occurrence #105G 072) and Ice (Minfile Occurrence #105G 118). The anomaly occurs in an area of extensive overburden. Mapping by Murphy and Piercey (1999) suggests that the area surrounding the anomaly is underlain by unit Dq, a quartzose metaclastic unit consisting of biotite-muscovite-feldspar schist, micaceous quartzite and psammite, quartz-biotite-muscovite metapelitic schist and marble. Unit Dq is overlain by unit DMF, Fire Lake mafic metavolcanic unit, described as a thick package of massive calcareous chloritic schists and lesser carbonaceous phyllite and quartzite, serpentinized ultramafics and fine to coarse grained gabbro. Unit DMF is overlain by unit MKcp, a carbonaceous muscovite-quartz schist or phyllite and quartz-muscovite (augen) schist which is part of the Kudz Ze Kayah felsic metavolcanic unit (Murphy and Piercey, 1999 map). Devonian to Mississippian ultramafic intrusives probably intrude the northern half of the claim block. Cretaceous age, weakly foliated biotite muscovite granite may also intrude the sequence. Mapping of ridges and exposed hill slopes by Cominco geologists revealed a sequence of mixed carbonaceous phyllite, metasedimentary schist, and an interval of mixed felsic and mafic metavolcanic rocks. These units appear to correlate with Murphy and Piercey's unit Dq and Fire Lake mafic metavolcanic units DMF, DMFr and DMFcp. Cominco established a small grid in the southern portion of the property over which they conducted soil sampling and HLEM, magnetic and gravity geophysical surveys. Several moderate to strong Cu values (277 ppm max) from soils coincide with moderate to strong Ni-Fe-Mo-Cr+/-Pb-Ag values. The ground geophysical survey resulted in the identification of a moderately strong conductive zone with a coincident magnetic anomaly and a 0.3 mgal gravity response. The purpose of the 1996 drill hole was to test a broad, moderately conductive feature with a coincident magnetic anomaly. The hole intersected a sequence of variably pyritic/pyrrhotitic, carbonaceous, dark grey to black silty mudstone with fine quartz sand layers interbedded with light grey quartzite. Total sulphide content is reported to be locally up to 10%, but the best assay returned 836 ppm Zn over 0.1 m. The 1997 ground geophysical survey was designed to cover a broad aeromagnetic feature located under the lake. Results of the survey were discouraging with minimal conductivity and no anomalous values in magnetics or gravity.

#### References

ATLAS EXPLORATION LTD, Jun/67. Assessment Report #018896 by J.S. Brock and.

ATLAS EXPLORATION LTD, Jun/67. Assessment Report #018897 by T.L. Sadlier Brown.

ATLAS EXPLORATION LTD, Jun/67. Assessment Report #018899 by J.S. Brock and J.N. Boateng.

COMINCO LTD, Jan/95. Assessment Report #093325 by P.A. MacRobbie.

COMINCO LIMITED, Apr/98. Assessment Report #093715 by D.A. Senft.

COMINCO LIMITED, May/98. Assessment Report #093797 by D.C. Hall.

MURPHY, D.C., 1998. Stratigraphic framework for syngenetic mineral occurrences, Yukon Tanana Terrane south of Finlayson Lake: A Progress Report. In: Yukon Exploration and Geology 1997, Exploration and Geological Services Division, Indian and Northern Affairs Canada, p.51-58.

MURPHY, D.C. and PIERCEY, S.J., 1999. Geological map of parts of Finlayson Lake (105G/7, 8 and parts of 1, 2, and 9) and Frances Lake (parts of 105H/5 and 12) map areas, southeastern Yukon (1:100 000-scale). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-4.

MURPHY, D.C. AND PIERCEY, S.J., 2000. Syn-mineralization faults and their re-activation, Finlayson Lake massive sulphide district, Yukon-Tanana Terrane, southeastern Yukon. In: Yukon Exploration and Geology 1999, D.S. Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 55-66.

SEBERT, S. and HUNT, J.A., 1999. A note on preliminary lithogeochemistry of the Fire Lake area. In: Yukon Exploration and Geology 1998, Exploration and Geological Services Division, Indian and Northern Affairs Canada, p.139-142.

| Work History |                     |  |
|--------------|---------------------|--|
| Date         | Work Type           | Comment  |
| 12/31/1997   | Ground Geophysics   | Also HLEM and gravity surveys. Carried out over ice at north end of Fire Lake. |
| 12/31/1996   | Drilling            | One hole, 130.7 m  |
| 12/31/1996   | Other               | One day program.   |
| 12/31/1966   | Geology             |  |
| 12/31/1966   | Geochemistry        |  |
| 12/31/1966   | Ground Geophysics   | Also EM survey.  |
| 12/13/1994   | Geology             |  |
| 12/13/1994   | Geochemistry        |  |
| 12/13/1994   | Ground Geophysics   | Also HLEM and gravity surveys.   |
| 12/13/1994   | Airborne Geophysics | Also magnetic survey.  |
| 12/13/1966   | Airborne Geophysics | Also magnetic survey.  |

| Assessment Reports that overlap occurrence |      |   |  |               |                |
|--|------|---|--|---------------|----------------|
| Report Number                              | Year | Title   | Worktypes  | Holes Drilled | Meters Drilled |
| <a href="#">096515</a>                     | 2013 | 2013 Satellite Mapping on the Fyre Lake Property  | Orthophoto - Airphotography  |               |                |
| <a href="#">093797</a>                     | 1997 | 1997 Assessment Report Rife Property Geophysics Watson Lake M.D., Yukon   | EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics  |               |                |
| <a href="#">093392</a>                     | 1995 | Geophysical Surveys on the Chit, Dot, Jig, Ling, Rife and Zoo Claims of the Pelly Mountain Properties   | EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics  |               |                |
| <a href="#">093325</a>                     | 1994 | 1994 Assessment Report Rife and Tor Properties Linecutting, Ground Geophysics (HLEM, Mag and Gravity), Soil Geochemistry and Geological Mapping | Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other |               |                |
| <a href="#">018899</a>                     | 1967 | Geochemical Soil Sampling Surveys, Ash Mineral Claim Group  | Soil - Geochemistry  |               |                |
| <a href="#">018896</a>                     | 1967 | Magnetic and Electromagnetic Geophysical Surveys Ash Mineral Claim Group  | EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other  |               |                |
| <a href="#">018897</a>                     | 1966 | A Geological Report on the Ash Claims From 1 - 36 Inclusive, Fire Lake Area, Yukon  | Detailed Bedrock Mapping - Geology   |               |                |

| Related References         |  |         |                          |                                 |  |
|----------------------------|--|---------|--------------------------|---------------------------------|--|
| Number                     | Title  | Page(s) | Reference Type           | Document Type                   |  |
| <a href="#">ARMC016592</a> | Geochemical map - 105G/2 - Upper Black River   |         | Property File Collection | Geochemical Map                 |  |
| <a href="#">ARMC013941</a> | Report on the Ant mineral claim group - Fyre Lake area - June 28 to July 29, 1967                            |         | Property File Collection | Report                          |  |
| <a href="#">ARMC013918</a> | Report on the Ash mineral claim group May 20 to June 30, 1966 - Fyre Lake area - Watson Lake mining division |         | Property File Collection | Report                          |  |
| <a href="#">ARMC014028</a> | Aero Mag-EM survey - Staking location - Fyre Lake area   |         | Property File Collection | Geophysical Map                 |  |
| <a href="#">ARMC013873</a> | Airborne EM-mag & photogeology - Fyre Lake, Central group - Drawing no. 9                                    |         | Property File Collection | Geophysical Map                 |  |
| <a href="#">ARMC013871</a> | Airborne EM-mag & photogeology - Fyre Lake, East group   |         | Property File Collection | Geophysical Map                 |  |
| <a href="#">ARMC013872</a> | Airborne EM-mag & photogeology - Fyre Lake, West group   |         | Property File Collection | Geophysical Map                 |  |
| <a href="#">ARMC013862</a> | Staking map - Fyre Lake area   |         | Property File Collection | Geoscience Map (General)        |  |
| <a href="#">ARMC013912</a> | Notes on frequency distributions - Ash group   |         | Property File Collection | Miscellaneous Company Documents |  |
| <a href="#">ARMC013936</a> | Geochemical map with overlay - Upper Black River   |         | Property File Collection | Geochemical Map                 |  |
| <a href="#">ARMC013901</a> | Magnetometer survey - Fire Lake E zone   |         | Property File Collection | Geophysical Map                 |  |
| <a href="#">ARMC013938</a> | Key map - Fyre Lake area - Grid location - Ant mineral claims  |         | Property File Collection | Geoscience Map (General)        |  |
| <a href="#">ARMC01763</a>  |  |         |                          |                                 |  |

|                            |   |  |                          |                                       |
|----------------------------|---|--|--------------------------|---------------------------------------|
| <a href="#">ARMC013965</a> | Geochemical map of Upper Black River - Cu, Pb, Zn, Mn, Mo.W - Copper and lead numbers circled |  | Property File Collection | Geochemical Map                       |
| <a href="#">ARMC013911</a> | Frequency calculation notes - Grass Lakes - Ash group   |  | Property File Collection | Miscellaneous Company Documents       |
| <a href="#">ARMC013903</a> | Fyre Lake E.M. survey - High and low frequency profile - Ant and Ash claim groups             |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013905</a> | Fyre Lake geochem survey - Ash claim group  |  | Property File Collection | Geochemical Map                       |
| <a href="#">ARMC013904</a> | Geophysical field survey - Ash claim group - Fyre Lake area                                   |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013934</a> | Fyre Lake OEX staking claim map   |  | Property File Collection | Geoscience Map (General)              |
| <a href="#">ARMC013935</a> | Fyre Lake OEX staking claim map   |  | Property File Collection | Geoscience Map (General)              |
| <a href="#">ARMC013910</a> | Geochemical soil survey data - Fyre Lake - Ash group  |  | Property File Collection | Miscellaneous Company Documents       |
| <a href="#">ARMC013937</a> | Geochemical stream sediment survey data - Ant group   |  | Property File Collection | Assays                                |
| <a href="#">ARMC013940</a> | Ant - Traverse - Geochem  |  | Property File Collection | Geochemical Map                       |
| <a href="#">ARMC020489</a> | Field notebook - Electromagnetic survey - Ash group claims                                    |  | Property File Collection | Miscellaneous Company Documents       |
| <a href="#">ARMC016574</a> | Geochemistry map - 105G/2 - Upper Black River   |  | Property File Collection | Geochemical Map                       |
| <a href="#">ARMC016573</a> | Geology map - 105G/2 - Upper Black River  |  | Property File Collection | Geoscience Map (Geological - Bedrock) |
| <a href="#">ARMC013939</a> | Geochemistry map - Reconnaissance geochemical traverse - Ant claims                           |  | Property File Collection | Geochemical Map                       |
| <a href="#">ARMC013907</a> | Ash group geochem - Contour map - Copper  |  | Property File Collection | Geochemical Map                       |
| <a href="#">ARMC013908</a> | Ash group geochem - Contour map - Zinc  |  | Property File Collection | Geochemical Map                       |
| <a href="#">ARMC013909</a> | Ash group mag map   |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC020544</a> | Field notebook - Atlas Ex. 1966 - Ash, Ant, Tau, Calco, Dub 1-2, Tak groups                   |  | Property File Collection | Miscellaneous Company Documents       |
| <a href="#">ARMC020560</a> | Field notebook - Ash claim group - Fyre Lake  |  | Property File Collection | Miscellaneous Company Documents       |
| <a href="#">ARMC013906</a> | Airborne EM-mag and photogeology - Fyre Lake, Central group - with notations                  |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013900</a> | Airborne EM-mag and photogeology - Fyre Lake, East group - Drawing no. 10                     |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013876</a> | Airborne geophysical survey - Aeromagnetic map - Sheet 1 of 4 - Fyre Lake area                |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013874</a> | Airborne geophysical survey - Aeromagnetic map - Sheet 2 of 4 - Fyre Lake area                |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013875</a> | Airborne geophysical survey - Aeromagnetic map - Sheet 3 of 4 - Fyre Lake area                |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013870</a> | Airborne geophysical survey - Aeromagnetic map - Sheet 4 of 4 - Fyre Lake area                |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013877</a> | Airborne geophysical survey - Electromagnetic map - Sheet 1 of 4 - Fyre Lake area             |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013878</a> | Airborne geophysical survey - Electromagnetic map - Sheet 2 of 4 - Fyre Lake area             |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013879</a> | Airborne geophysical survey - Electromagnetic map - Sheet 3 of 4 - Fyre Lake area             |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013869</a> | Airborne geophysical survey - Electromagnetic map - Sheet 4 of 4 - Fyre Lake area             |  | Property File Collection | Geophysical Map                       |
| <a href="#">ARMC013913</a> | Cu statistics - Fyre Lake - Ash mineral claims  |  | Property File Collection | Miscellaneous Company Documents       |
| <a href="#">ARMC013915</a> | Field maps of Fyre Lake showing geology and structure   |  | Property File Collection | Geoscience Map (Geological - Bedrock) |
| <a href="#">ARMC013931</a> | Cassiar development map - Fire Lake drilling to Sept. 12, 1961                                |  | Property File Collection | Geoscience Map (General)              |
| <a href="#">ARMC013930</a> | Development map - Cassiar asbestos - Fyre Lake - E zone - 66-12                               |  | Property File Collection | Geoscience Map (General)              |
| <a href="#">ARMC013916</a> | Claim map with notes - Ash group  |  | Property File Collection | Geoscience Map (General)              |

