



Occurrence Details

Occurrence Number: 105G 068

Occurrence Name: Ash

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 12/16/2025 3:28:03 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
096515	2013	2013 Satellite Mapping on the Fyre Lake Property	Orthophoto - Airphotography		
093797	1997	1997 Assessment Report Rife Property Geophysics Watson Lake M.D., Yukon	EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics		
093392	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		
093325	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		
018899	1967	Geochemical Soil Sampling Surveys, Ash Mineral Claim Group	Soil - Geochemistry		
018896	1967	Magnetic and Electromagnetic Geophysical Surveys Ash Mineral Claim Group	EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
018897	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	
ARMC016592	Geochemical map - 105G/2 - Upper Black River		Property File Collection	Geochemical Map	
ARMC013941	Report on the Ant mineral claim group - Fyre Lake area - June 28 to July 29, 1967		Property File Collection	Report	
ARMC013918	Report on the Ash mineral claim group May 20 to June 30, 1966 - Fyre Lake area - Watson Lake mining division		Property File Collection	Report	
ARMC014028	Aero Mag-EM survey - Staking location - Fyre Lake area		Property File Collection	Geophysical Map	
ARMC013873	Airborne EM-mag & photogeology - Fyre Lake, Central group - Drawing no. 9		Property File Collection	Geophysical Map	
ARMC013871	Airborne EM-mag & photogeology - Fyre Lake, East group		Property File Collection	Geophysical Map	
ARMC013872	Airborne EM-mag & photogeology - Fyre Lake, West group		Property File Collection	Geophysical Map	
ARMC013862	Staking map - Fyre Lake area		Property File Collection	Geoscience Map (General)	
ARMC013912	Notes on frequency distributions - Ash group		Property File Collection	Miscellaneous Company Documents	
ARMC013936	Geochemical map with overlay - Upper Black River		Property File Collection	Geochemical Map	
ARMC013901	Magnetometer survey - Fire Lake E zone		Property File Collection	Geophysical Map	
ARMC013938	Key map - Fyre Lake area - Grid location - Ant mineral claims		Property File Collection	Geoscience Map (General)	
ARMC01763					

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

