Occurrence Details

Occurrence Number: 105G 142
Occurrence Name: Blake
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 6/15/2025 10:24:43 AM

General Information

Secondary Commodities: copper, lead, zinc
Deposit Type(s): Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn
Location(s): 61°21'34" N - -130°51'15" W
NTS Mapsheet(s): 105G07
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as the 1st Base cl 1-44 (YB51866) by B. MacDonald in Aug/94 who mapped and soil sampled in 1995. In Feb/96 the claim block was included in a regional airborne geophysical survey flown over the area by Aerodat Inc. In May/96 MacDonald optioned the claims to Arcturus Resources Ltd which carried out detailed soil sampling, geological mapping and ground geophysical programs later in the year. The results of this program led the company to focus their efforts in the vicinity of this occurrence. In Aug/97 the company carried out a detailed max-min geophysical program the results of which led the company to drill 3 diamond drill holes (357 m).
In Dec/99 the company consolidated its capital and changed its name to Arcturus Ventures Inc.

Capsule Geology

The region surrounding the occurrence was recently re-mapped by Murphy and Piercey (1999) of the Yukon Geology Program. They report that the area is underlain by a layered sequence of Devonian to Early Mississippian metavolcanic and metasedimentary rocks belonging to the Yukon-Tanana Terrane (YTT). The YTT is a volcanic-plutonic, pericratonic arc assemblage that was strongly deformed and metamorphosed by late Triassic time. Volcanic hosted massive sulphide deposits exist at different stratigraphic positions within the YTT including the Fyre Lake deposit (Minfile Occurrence #105G 034) in Devonian to early Mississippian Fire Lake mafic meta-volcanic unit (DMF), the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) in the Mississippian Kudz Ze Kayah felsic meta-volcanic unit (MK), and the Wolverine deposit (Minfile Occurrence
#105G 072) within the Carboniferous Wolverine Lake Succession.
The occurrence is underlain by biotite-muscovite-feldspar-quartz schist, micaceous quartzite (unit Dq) and marble (unit Dqc). Biotite-plagioclase-actinolite-chlorite schist (unit Dm) and feldspar-muscovite-quartz schist of probable volcanic protolith (unit Df) occur locally. East and south of the occurrence the sequence is intruded by granitic to monzonitic metaplutonic rocks (unit MGg) belonging to the Mississippian age Grass Lakes Plutonic Suite. Geological characteristics and stratigraphic relations suggests that the metaplutonic rocks are sills that flowed from dykes lying along the trend of thickness changes in the surrounding metavolcanic and metasedimentary rocks. In the occurrence area the metaplutonic rocks occur in the lower part of unit Dq, below the calcareous member Dqc.
MacDonald¿s soil sampling program outlined several anomalous areas of zinc and lead geochemistry in the southeast portion of the claim block. The airborne geophysical survey outlined several EM conductors and separate magnetic highs in the same general area.
In 1996 Arcturus Resources carried out a detailed soil sampling program over the entire 1st Base claim block. The results outlined 4 moderate strength Cu-Zn-Pb anomalies (labelled A-D) in the southeast portion of the claim block. A detailed max-min geophysical survey completed the following year identified 2 electromagnetic conductors coincidental with 2 of the geochemical anomalies identified in 1996.
The diamond drill program tested a strong max-min EM conductor (occurrence) and the stratigraphy at the base of a cirque wall. None of the holes intersected economic mineralization. All three holes intersected variable mafic schists with bands of marble, quartzite +/- graphitic schist +/- felsic schist. Minor disseminated pyrrhotite was intersected in each hole. Correlation with Murphy¿s work suggests the holes cored units Dm and Df.

References

AERODAT INC, May/97. Assessment Report #093655 by R.W. Woolham.

ARCTURUS RESOURCES LTD, May97. Assessment Report #093647 by G.S. Davidson.

ARCTURUS RESOURCES LTD, Jul/98. Assessment Report #093844 by G.S. Davidson.

ARCTURUS RESOURCES LTD, News Release, 27 Jun/96; 14 Dec/2000.

GEORGE CROSS NEWSLETTER, 17 Sep/97; 26 Sep/97; 8 Oct/97.

MACDONALD, B., Aug/95. Assessment Report #093433 by G. MacDonald.

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.

YUKON EXPLORATION & GEOLOGY 1995, p. 12; 1996, p. 17, 30; 1997, p. 17, 36, 38.

Work History

Date	Work Type	Comment
12/31/1997	Drilling	Three holes, 357 m. Drill holes tested EM conductors.
12/31/1997	Ground Geophysics	Maxmin survey.
12/31/1996	Geology	
12/31/1996	Geochemistry	Soil sampled entire claim block.
12/31/1996	Airborne Geophysics	Also magnetic and VLF surveys.
12/31/1995	Geology	
12/31/1995	Geochemistry	
12/13/1996	Ground Geophysics	Also HLEM survey.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095354	2010	Assessment Report on the 2010 Geological and Geochemical Program On 1st Base Claims	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
093844	1997	Assessment Report on the 1st Base Claims	Diamond - Drilling, EM - Ground Geophysics	3	357
093647	1996	Assessment Report on the 1st Base Claims	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Line Cutting - Other		
093587	1996	Assessment Report Describing Geological Mapping, Soil Sampling, Geophysical Surveying and Diamond Drilling at the Slap Shot Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other, Prospecting - Other, Hand - Trenching	3	396
093655	1996	Report on a Combined Helicopter-Borne Electromagnetic and Magnetic Survey, Goal Net, Hat Trick, League, Offside, Power Play, Shutout and Slapshot Properties	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
093433	1995	Geological and Geochemical Assessment Report on the 1st Base 1-44 Mineral Claims	Soil - Geochemistry, Cursory Property Visit - Other		
093412	1995	Assessment Report Describing Prospecting and Geochemical Surveys on the Shot 1-36 Claims	Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
060250	1966	Geological, Geochemical, Geophysical & Physical Work Report on the Hoo, EL, Gee Leo, P.S., P.G., C.W. and Z Claim Groups	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Backhoe - Trenching	4	486.46
019114	1966	Report on the Hoo, EL, Gee Leo, P.S., P.G., C.W. and Z Group of Mineral Claim Groups	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Backhoe - Trenching	4	486.46