



Occurrence Details

Occurrence Number: 105G 035
Occurrence Name: Top
Occurrence Type: Hard-rock
Status: Showing
Date printed: 12/16/2025 7:49:12 AM

General Information

Secondary Commodities: cobalt, copper, gold, lead, silver, zinc
Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au
Location(s): 61°12'18" N - -130°29'28" W
NTS Mapsheet(s): 105G01
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Top cl 1-170 (75213) in Sep/60 by Cassiar Asbestos Corp which carried out an extensive regional program. Restaked as Dub cl 1-167 (89964) in Jan/66 by Atlas Explorations Ltd. In 1980 Welcome North Mines Ltd optioned the Dub claims from Atlas. In 1990 Placer Dome Exploration Ltd optioned the remaining Dub claims from Welcome North Mines. As part of the option agreement Placer Dome restaked the occurrence within a large block of 192 Fire claims (YB33748). In Nov/95 Columbia Gold Mines Ltd optioned the Fire claims from Welcome Opportunities Ltd (a successor company to Welcome North Mining Ltd and Atlas Exploration Ltd). The claims were included in a larger claim package which included the Fyre occurrence (Minfile Occurrence #105G 034) to the north and the Dub occurrence (Minfile Occurrence 105G 036) to the south. Between late June and early Oct/96, Columbia carried out an extensive exploration program on their claim block. Work carried out on and around the Top occurrence, included geological mapping, prospecting, ground geophysics and soil sampling. In 1997 the company carried out diamond drilling and a GPS grid survey southwest of the occurrence. In May/99, Columbia Gold Mines Limited consolidated its capital on a 3 old for 1 new basis and changed its name to Pacific Ridge Exploration Limited.

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 Top occurrence is underlain 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 MK, Kudz Ze Kayah felsic metavolcanic unit, an undifferentiated feldspar-muscovite-quartz schist, feldspar and less commonly quartz augen schist. The lower contact between units DMF and MK is marked by unit MKcp, a carbonaceous muscovite-quartz schist or phyllite and quartz-muscovite (augen) schist (Murphy and Piercey, 1999 map). Mississippian aged variably strained granite (unit MSgs) occurs as a thrust panel north of the occurrence. The original Top occurrence consists of veins developed within mafic volcanic rocks (unit DMF) near strained Mississippian granitic rocks (unit MSgs). Historical records report that minor galena occurs in a rusty quartz vein that cuts a small gossan developed in mafic schist. An assay of 2.9% Pb, 30.9 g/t Ag and 0.4% Zn was obtained by Cassiar Asbestos on a selected sample. Atlas and later companies reported numerous occurrences of massive sulphide float in the same general area. Historically, the bulk of exploration work in the region was aimed at exploring the adjoining Fyre occurrence (Minfile Occurrence 105G 034) located 2 km to the north. Most companies explored the area around the Top occurrence in hopes of discovering similar VMS mineralization. Various soil sampling and geophysical surveys outlined coincident anomalies in the area but no substantial amount of mineralization have yet been found. In 1997, Columbia Gold drilled two diamond drill holes (303 m) 2 km to the southwest. Both holes were drilled to test coincident geochemical and geophysical anomalies and intersected alternating bands of phyllite and biotite-chlorite-quartz-carbonate schists. Only trace amounts of disseminated pyrite and pyrrhotite were noted. Six additional, widely spaced holes were drilled in the area but no details have been released.

References

- ATLAS EXPLORATIONS LTD, Feb/67. Assessment Report #061176 by J. S. Brock.
- ATLAS EXPLORATIONS LTD, Feb/67. Assessment Report #061177 by J. S. Brock.
- ATLAS EXPLORATIONS LTD, Feb/67. Assessment Report #061181 by T. L. Sadlier-Brown.
- BLANCHFLOWER, D., DEIGHTON, J., AND FOREMAN, I., The Fyre Lake Deposit: A new VMS discovery. 1997. Columbia Gold Mines Ltd, Handout given at Cordilleran Round-up.
- COLUMBIA GOLD MINES LTD, May/98. Assessment Report #093569 by J. D. Blanchflower and I. J. Foreman.
- COLUMBIA GOLD MINES LTD, May/98. Assessment Report #093778 by J. Deighton and I. J. Foreman.
- GEOLOGICAL SURVEY OF CANADA, Paper 61-23, p.42.
- GEOLOGICAL SURVEY OF CANADA, Paper 62-27, p. 39-40.
- HUNT, J.A. and MURPHY, D.C., 1998. A note on preliminary bedrock mapping in the Fire Lake area. In: Yukon Geology and Exploration 1997: Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p 59-68.
- MURPHY, D.C., AND PIERCEY, S.J., 1999. Geological evolution of parts of Finlayson Lake (105G/7, 8 and and 9) and Frances Lake (parts of 105H/5 and 12) map areas, southeastern Yukon (1:100,000 scale). Exploration and Geological Services Division, 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.

PLACER DOME INC, Dec/91. Assessment Report #092991 by R.W. Stroshein

YUKON EXPLORATION AND GEOLOGY 1979-80, p.91-95; 1981, p. 135; 1996, p. 16-17, 30, 32; 1997, p. 36, 38.

YUKON EXPLORATION 1991, p. 6, 10.

Work History

| Date | Work Type | Comment |
|------------|---------------------|--|
| 12/31/1997 | Drilling | Two holes, 302 m. Six additional holes drilled but no information was filed. |
| 12/31/1997 | Other | GPS grid survey. |
| 12/31/1996 | Drilling | Number of holes drilled: 71 Amount of work done: 9532 METRES |
| 12/31/1996 | Geology | |
| 12/31/1996 | Geochemistry | |
| 12/31/1996 | Ground Geophysics | Also HLEM survey. |
| 12/31/1990 | Geology | |
| 12/31/1990 | Geochemistry | |
| 12/31/1990 | Ground Geophysics | Maxmin survey. |
| 12/31/1966 | Geology | |
| 12/31/1966 | Ground Geophysics | Also magnetic survey. |
| 12/31/1966 | Other | |
| 12/31/1960 | Geology | |
| 12/31/1960 | Geochemistry | Also silt sampling. |
| 12/31/1960 | Other | |
| 12/13/1990 | Airborne Geophysics | Also resistivity, VLF-EM and magnetic surveys. |
| 12/13/1966 | Airborne Geophysics | Also magnetic survey. |

Assessment Reports that overlap occurrence

| Report Number | Year | Title | Worktypes | Holes Drilled | Meters Drilled |
|------------------------|------|--|--|---------------|----------------|
| 096896 | 2014 | 2014 Helicopter-Borne VTEM Geophysical Survey | Electromagnetic - Airborne Geophysics | | |
| 096515 | 2013 | 2013 Satellite Mapping on the Fyre Lake Property | Orthophoto - Airphotography | | |
| 093569 | 1996 | Linecutting, Prospecting, Geochemical and Geophysical Report on the Fyre Lake Property | Rock - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other, Prospecting - Other | | |
| 092991 | 1991 | Geological, Geochemical and Geophysical Report on the Kona Property | Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics | | |
| 090245 | 1977 | 1977 Geological Assessment Report Fyre Lake Property | Bedrock Mapping - Geology, Prospecting - Other | | |
| 061177 | 1966 | Magnetic and Electromagnetic Geophysical Surveys Dub and Zot Mineral Claim Groups | Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, EM - Ground Geophysics, Magnetics - Ground Geophysics | | |

Related References

| Number | Title | Page(s) | Reference Type | Document Type |
|----------------------------|--|---------|--------------------------|-----------------|
| ARMC013902 | Preliminary compilation, electromagnetic, magnetic, geochemical surveys - Showing proposed D.D.H. locations - Fyre Lake project - Dub M.C. group | | Property File Collection | Geophysical Map |
| ARMC016592 | Geochemical map - 105G/2 - Upper Black River | | Property File Collection | Geochemical Map |
| ARMC014028 | Aero Mag-EM survey - Staking location - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC014015 | Airborne EM - Mag. & photo geology with field notations- Fyre Lake, West group | | Property File Collection | Geophysical Map |
| ARMC013873 | Airborne EM-mag & photogeology - Fyre Lake, Central group - Drawing no. 9 | | Property File Collection | Geophysical Map |
| ARMC013 | Airborne EM-map & photogeology - Fyre Lake, East group | | Property File | Geophysical Map |

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|--|---|--|-----------------------------|------------------------------------|
| 871 | Airborne EM-mag & photogeology - Fyre Lake, East group | | Collection | Geophysical Map |
| ARMC013 872 | Airborne EM-mag & photogeology - Fyre Lake, West group | | Property File Collection | Geophysical Map |
| ARMC013 867 | Notes on Fyre Lake previous work by G.S.C. | | Property File Collection | Miscellaneous Company Documents |
| ARMC014 004 | Map showing PB samples creek SE of Fyre Lake - Dub claim group | | Property File Collection | Geoscience Map (General) |
| ARMC013 862 | Staking map - Fyre Lake area | | Property File Collection | Geoscience Map (General) |
| ARMC013 936 | Geochemical map with overlay - Upper Black River | | Property File Collection | Geochemical Map |
| ARMC014 000 | Map of Dub claim group and geochemical stream sediment survey data | | Property File Collection | Geochemical Map |
| ARMC013 901 | Magnetometer survey - Fire Lake E zone | | Property File Collection | Geophysical Map |
| ARMC013 866 | Pelly Mountains area - Fyre Lake | | Property File Collection | Report |
| ARMC013 820 | Resume of geology and mineralization in the area of the "E" zone, Fyre Lake, Y.T. | | Property File Collection | Report |
| ARMC013 987 | Fyre Lake geochem survey - Dub 1 group - Contour map - Copper | | Property File Collection | Geochemical Map |
| ARMC013 986 | Fyre Lake geochem survey - Dub 1 group - Contour map - Zinc | | Property File Collection | Geochemical Map |
| ARMC013 934 | Fyre Lake OEX staking claim map | | Property File Collection | Geoscience Map (General) |
| ARMC013 935 | Fyre Lake OEX staking claim map | | Property File Collection | Geoscience Map (General) |
| ARMC013 982 | Compilation map - Dub group | | Property File Collection | Geoscience Map (General) |
| ARMC013 898 | Drill log sample descriptions - Dub claims | | Property File Collection | Miscellaneous Company Documents |
| ARMC013 999 | Analytical work sheet - Geochemical - Cu, Pb, Zn - T samples - Fyre Lake | | Property File Collection | Miscellaneous Company Documents |
| ARMC013 994 | Analytical work sheet - Geochemical - Fyre Lake | | Property File Collection | Miscellaneous Company Documents |
| ARMC013 996 | Analytical work sheet - Geochemical - R-32-66 - Fyre Lake | | Property File Collection | Miscellaneous Company Documents |
| ARMC013 997 | Analytical work sheet - Geochemical - R-49-66 - Fyre Lake | | Property File Collection | Miscellaneous Company Documents |
| ARMC013 998 | Analytical work sheet - Geochemical - R-64 - Fyre Lake | | Property File Collection | Miscellaneous Company Documents |
| ARMC013 995 | Geochemical stream sediment survey data - Fyre Lake | | Property File Collection | Miscellaneous Company Documents |
| ARMC013 984 | Mag. survey - Fyre Lake "E" zone | | Property File Collection | Geophysical Map |
| ARMC013 906 | Airborne EM-mag and photogeology - Fyre Lake, Central group - with notations | | Property File Collection | Geophysical Map |
| ARMC013 900 | Airborne EM-mag and photogeology - Fyre Lake, East group - Drawing no. 10 | | Property File Collection | Geophysical Map |
| ARMC014 025 | Airborne geophysical survey - Aeromagnetic map - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC013 876 | Airborne geophysical survey - Aeromagnetic map - Sheet 1 of 4 - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC013 874 | Airborne geophysical survey - Aeromagnetic map - Sheet 2 of 4 - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC013 875 | Airborne geophysical survey - Aeromagnetic map - Sheet 3 of 4 - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC013 870 | Airborne geophysical survey - Aeromagnetic map - Sheet 4 of 4 - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC014 024 | Airborne geophysical survey - Electromagnetic map - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC013 877 | Airborne geophysical survey - Electromagnetic map - Sheet 1 of 4 - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC013 878 | Airborne geophysical survey - Electromagnetic map - Sheet 2 of 4 - Fyre Lake area | | Property File Collection | Geophysical Map |
| ARMC013 879 | Airborne geophysical survey - Electromagnetic map - Sheet 3 of 4 - Fyre Lake area | | Property File Collection | Geophysical Map |

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|---------------------------------|---|-----------------------------|--|
| ARMC013 869 | Airborne geophysical survey - Electromagnetic map - Sheet 4 of 4 - Fyre Lake area | Property File Collection | Geophysical Map |
| ARMC013 861 | Airborne geophysical survey - Fyre Lake area | Property File Collection | Geophysical Map |
| ARMC013 915 | Field maps of Fyre Lake showing geology and structure | Property File Collection | Geoscience Map (Geological - Bedrock) |
| ARMC013 983 | Cassiar asbestos E.M. survey - Sheridan-Kelk magniphase of "E" zone | Property File Collection | Geophysical Map |
| ARMC013 931 | Cassiar development map - Fire Lake drilling to Sept. 12, 1961 | Property File Collection | Geoscience Map (General) |
| ARMC013 930 | Development map - Cassiar asbestos - Fyre Lake - E zone - 66-12 | Property File Collection | Geoscience Map (General) |
| ARMC013 985 | Claim map - Fyre Lake area - Cassiar asbestos | Property File Collection | Geoscience Map (General) |