



Occurrence Details

Occurrence Number: 105G 035

Occurrence Name: Top

Occurrence Type: Hard-rock

Status: Showing

Date printed: 8/6/2025 12:46:06 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 Kudzu 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, Kudzu 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 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

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

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)