

Occurrence Details

Occurrence Number: 105G 127 Occurrence Name: Cobb Occurrence Type: Hard-rock

Status: Showing

Date printed: 10/3/2025 5:55:45 PM

General Information

Secondary Commodities: barium, copper, lead, silver, zinc

Deposit Type(s): Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn

Location(s): 61°23'31" N - -130°40'20" W

NTS Mapsheet(s): 105G07 Location Comments: .5 Kilometres Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Cobb cl 1-88 (YB60092) in Jun/95 by Cominco Ltd to cover stream sediment anomalies detected during a regional geochemical program carried out the previous year. Later in the summer, the company contracted Aerodat Inc to fly a helicopter-borne electromagnetic and magnetic geophysical survey over the claim block. In 1996 Cominco Ltd carried out a short mapping and soil sampling program.

Capsule Geology

Geological mapping (Murphy et al. 2001) shows the area is dominantly 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 the Devonian to lower Mississippian(?) Fire Lake mafic metavolcanic unit, the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) in the Mississippian Kudz Ze Kayah felsic metavolcanic unit, and the Wolverine deposit (Minfile Occurrence #105G 072) within the Lower Mississippian Wolverine Succession.

The occurrence is underlain by biotite-muscovite-feldspar-quartz schist, and micaceous quartzite and marble (unit Dq). These units are overlain by unit DF, (Fire Lake mafic metavolcanic unit) composed of massive to subtly layered biotite-plagioclase-actinolite-chlorite schist and lesser carbonaceous phyllite, quartzite and grey marble. Unit DF is in turn overlain by unit DK, (Kudz Ze Kayah felsic metavolcanic unit), composed of undifferentiated feldspar-muscovite-quartz schist, feldspar and less commonly quartz augen schist. The sequence is intruded by granitic to monzonitic metaplutonic rocks (unit MGg) of the Mississippian 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 northeast corner of the Cobb claims a small ultramafic body (unit Dum) intrudes unit DF.

Cominco reported that the claim block is mainly underlain by thick felsic crystal meta-tuffs interlayered with felsic meta-flows with lesser interbedded meta-mudstone and meta-siltstone (Bannister). Lithologies are generally strongly foliated and shallow-dipping. Stratigraphically, Cominco suggests that the Cobb claims occur just stratigraphically below or contemporaneous with the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117).

The 1995 airborne geophysical survey delineated two areas with coincident magnetic and EM anomalies (Holroyd, 1996) on the south side of the claim block.

Geological mapping and prospecting located mineralization in some of the flat lying interlayered metasedimentary units, bound by felsic metavolcanics. The best results were returned from the central portion of the claim block, where sphalerite, galena and pyrite occur as fine to blotchy disseminated patches parallel to foliation and as fracture filling. Thin laminae of galena and chalcopyrite were also found within the felsic crystal tuffs. Some of the quartz-biotite schists found on the claim block also display fine-grained chalcopyrite and pyrite +/- magnetite. Grid soil sampling over the central area of the claim block returned coincident Pb (>75, up to 1003 ppm), Zn (>400, up to 5638 ppm) and moderate Cu (>50, up to 375 ppm) soil anomalies over a distance of 500 m. Additional anomalous values were reported from neighbouring grid lines and included values up to 12 409 ppm Ba and 3.9 ppm Ag. Weak to moderately anomalous Cu-Pb-Zn values were returned over the airborne anomalies.

References

BOND, J.D., MURPHY, D.C., COLPRON, M., GORDEY, S.P., PLOUFFE, A., ROOTS, C.F., LIPOVSKY, P.S., STRONGHILL, G., AND ABBOTT, J.G., 2002. Digital compilation of bedrock geology and till geochemistry, northern Finlayson Lake map area, Southeastern Yukon (105G), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File Report, 2002-7(D) and Geological Survey of Canada Open File 4243.

COMINCO LTD, Apr/98. Assessment Report #093713 by V.L. Bannister.

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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.

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Yukon Territory (1:100 000 scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-33.

MURPHY, D.C., COLPRON, M., ROOTS, C.F., GORDEY, S.P. AND ABBOTT, J.G., 2002. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon), Part 1: Bedrock geology. In: Yukon Exploration and Geology 2001, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 189-207.

Work History					
Date	Work Type	Comment			
12/31/1996	Geology				
12/31/1996	Geochemistry				
12/31/1995	Geochemistry				
12/31/1995	Airborne Geophysics	Also magnetic survey.			
12/13/1994	Geochemistry	Regional program.			

Assessment Reports that overlap occurrence							
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled		
093848	1997	1997 Assessment Report Tag Property (KZK Project) and Cobb Property Diamond Drilling and Minor Geological Mapping and Soil/Rock Geochemistry	Diamond - Drilling, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other	17	3566		
093713	1996	1996 Assessment Report Cobb Property Geological Mapping/Prospecting and Geochemistry	Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other				
093429	1995	Combined Helicopter-Borne Magnetic and Electromagnetic Survey of the Cobb Claims, Pelly Mountain Project, Yukon Territory	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics				