



Occurrence Details

Occurrence Number: 105G 116
Occurrence Name: Charlie
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 8/6/2025 1:46:12 AM

General Information

Secondary Commodities: copper, lead, silver, zinc
Deposit Type(s): Unknown
Location(s): 61°28'41" N - -130°27'37" W
NTS Mapsheet(s): 105G08
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Charlie cl 1-12 (YB33736) by F. and T. Charlie and A. John Sr in Nov/90. In Jun/91 the group added Charlie cl 13-34 (YB33996). No assessment work was recorded on these claims and they were lapsed the following year.

Restaked within On cl 21-244 (YB62677) in Oct/95 by Cominco Ltd. Westmin Resources staked Toe cl 43-154 (YB63794) over top the same area but their application was withdrawn in Mar/96. Cominco flew a combined helicopter-borne EM/magnetic survey over their claims in March and April of 1996. Following completion of the survey, Cominco entered into a joint venture agreement with Westmin Resources Ltd and Atna Resources Ltd (Cominco 50%, Westmin 30%, Atna 20%) to explore On cl 21-101, 104-113, 116-129, 134-146, 162-173, and 197-198. In 1996 the joint venture carried out grid soil sampling, geological mapping and prospecting programs in the vicinity of the occurrence. In 1997 the group carried out an UTEM survey over the occurrence area (see Minfile Occurrence #105G 139 for other information concerning On claims).

Capsule Geology

The area is underlain by a layered sequence of Devonian to Pennsylvanian 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 Fire Lake mafic meta-volcanic unit, the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) in the Devonian Kudz Ze Kayah felsic meta-volcanic unit, and the Wolverine deposit (Minfile Occurrence #105G 072) within the Early Mississippian Wolverine Succession (Bond et al., 2002).

The occurrence is underlain by the Kudz Ze Kayah felsic metavolcanic unit. Younger Grass Lakes Succession rocks - Devonian to Mississippian quartzite, biotite-chlorite schist and carbonaceous phyllite, quartzite and minor quartzofeldspathic psammitic - occur to the north and east. A northwest-trending normal fault lies to the southeast of the occurrence, juxtaposing Kudz Ze Kayah metavolcanic rocks against younger Devonian-Mississippian carbonaceous phyllite (DMcp) to the west.

Cominco's helicopter borne EM/magnetic survey outlined a strong magnetic domain over the occurrence area. Grid-based soil sampling outlined a moderate-strength Pb-Zn soil anomaly in the same general vicinity. A follow-up UTEM ground survey reported only weak conductivity and no magnetic features in the area. These results led the joint venture group to concentrate their subsequent exploration efforts on the northeast side of the claim block (see Minfile Occurrence #105G 139).

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, Feb/97. Assessment Report #093550 by R.D. Holroyd.

COMINCO LTD, May/97 Assessment Report #093625 by D.A. Terry et al..

COMINCO LTD, Jun/98. Assessment Report #093821 by D.A. Terry and D. Hall.

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 Region, 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 Region, Indian and Northern Affairs Canada, p. 55-66.

MURPHY, D.C., COLPRON, M., GORDEY, S.P., ROOTS, C.F., ABBOTT, G., AND LIPOVSKY, P.S., 2001. Preliminary bedrock geological map of northern Finlayson Lake area (NTS 105 G) 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
12/31/1997	Ground Geophysics	UTEM ground survey.

12/31/1996	Geology	
12/31/1996	Geochemistry	
12/31/1996	Airborne Geophysics	Also magnetic survey.
12/31/1996	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096997	2016	2016 Geological, Geophysical, Diamond Drilling and Geotechnical Program Report on the Kudz Ze Kayah (KZK) Property	Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics, Orthophoto - Airphotography, Diamond - Drilling, Downhole Survey - Ground Geophysics, Petrographic - Lab Work/Physical Studies, Research/Summarize - Pre-existing Data, LIDAR - Remote Sensing, Environmental Assessment/Impact - Studies	53	16897.98
096898	2015	2015 Geological, Geophysical, Diamond Drilling and Environmental Report on the Kudz Ze Kayah Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Historical Drill Core - Geochemistry, Downhole Survey - Ground Geophysics, Gravity Survey - Ground Geophysics, Surveying - Other, Data Compilation - Pre-existing Data, Process/Interpret - Pre-existing Data, LIDAR - Remote Sensing	99	21279.70
093821	1997	1997 Assessment Report describing Geophysical, Geochemical, and Diamond Drill Programs on the Joint Venture Claims	Diamond - Drilling, Diamond - Drilling, Soil - Geochemistry, EM - Ground Geophysics, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other	2	616
093712	1996	1996 Assessment Report Kudz Ze Kayah Property Linecutting, Soil Geochemistry, Geological Mapping, Geophysical Surveying and Diamond Drilling	Diamond - Drilling, Regional Bedrock Mapping - Geology, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other, Prospecting - Other	1	99.20
093625	1996	1996 Assessment Report Describing Geological and Geochemical Surveys on the ON Joint Venture Claims (ON 21-101, 104-113, 116-129, 134-146, 162-173, and 197-198), Finlayson Lake Area, Yukon Territory	Rock - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock Mapping - Geology, Line Cutting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016590	Geochemical map - 105G/8 - Wolverine Lake		Property File Collection	Geochemical Map
ARMC016578	Geology map - 10G/8 - Wolverine Lake		Property File Collection	Geoscience Map (Geological - Bedrock)