



Occurrence Details

Occurrence Number: 105G 026

Occurrence Name: Riviera

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 5:54:17 PM

General Information

Secondary Commodities: copper, zinc

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

Location(s): 61°28'51" N - -131°2'47" W

NTS Mapsheet(s): 105G06

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as A,B,C, etc cl (Y2943) in Apr/66, AH cl (Y7994) in Jun/66 and CU cl (Y17414) in Mar/67 by Riviera ML adjacent to the Leo group of Northlake ML. Riviera purchased the results of an airborne mag and EM survey flown over the property by Atlas EL prior to staking. Riviera cut two grids and conducted mag, Ronka, Turam and gravity surveys, mapping and soil sampling later in the year. In early 1967, one diamond drill hole (116 m) was drilled in an EM conductor near the Northlake boundary.

Capsule Geology

Geological mapping (Murphy et al., 2001) shows the region is dominantly underlain by a layered sequence of Devonian to Early Mississippian metavolcanic and metasedimentary rocks of 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.

The occurrence is underlain by Upper Devonian Fire Lake metavolcanic rocks (Murphy et al., 2001). Mississippian granitic metaplutonic rocks of the Grass Lakes Succession have intruded to the south, and Jurassic granitic intrusions occur to the east. The claims cover the end of an intense magnetic anomaly which extends north and a little east from Riviera Lake across an area with little outcrop. The magnetic pattern is interpreted as an ultramafic body. Six EM conductors were outlined in an area underlain by chlorite-quartz schist around the edge of the ultramafic body.

Mineralized float consisting of pyrrhotite, pyrite and minor chalcocopyrite was found at several places near the south end of the lake. Soil samples returned low values. The drill hole cut a 2.4 m zone of quartz-graphite schist with minor chalcocopyrite, surrounding a 10 cm band of massive pyrrhotite, which assayed 0.02% Cu and 0.05% Zn.

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.

HUNT, J.A., 2001. Volcanic-associated massive (VMS) mineralization in the Yukon-Tanana Terrane and coeval strata of the North American miogeocline, in the Yukon and adjacent areas. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Bulletin 12, 107 p.

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.

RIVIERA MINES LTD, Jun/66. Prospectus Report by P.H. Sevensma.

RIVIERA MINES LTD, Apr/67. Assessment Report #017941 by P.H. Sevensma & R.T. Heard.

Work History

Date	Work Type	Comment
12/31/1967	Drilling	One hole, 116.43 m.
12/31/1966	Geology	
12/31/1966	Geochemistry	
12/31/1966	Airborne Geophysics	Also magnetic survey. Survey flown prior to 1966. Ground magnetic and gravity.

12/31/1966	Other	
12/13/1966	Ground Geophysics	Also Ronka EM survey .

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
060586	1967	Northlake Mines Limited Summary Report and Recommendations September 30, 1967	Winter Road - Development, Surface, Diamond - Drilling, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Line Cutting - Other, Mechanical - Trenching	4	324.30
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
060253	1966	Northlake Mines Limited Gee, El and Hoo Groups, Summary Report and Recommendations	Silt - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
019115	1966	Northlake Mines Limited, Gee Group of Claims: Report on Airborne Geophysical Surveys	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
017941	1966	Geological, Geochemical, Geophysical and Physical Work Report on the A - M (1-8), The AH (1-8) & The AH (9F-15F) Claim Groups	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Line Cutting - Other, Prospecting - Other	1	116.60