

Occurrence Details

Occurrence Number: 105C 061 Occurrence Name: Mor Occurrence Type: Hard-rock Status: Showing Date printed: 5/31/2025 2:58:57 AM

General Information

Secondary Commodities: copper, gold, lead, silver, zinc Deposit Type(s): Volcanogenic Sulphide - type not determined Location(s): 60°4'54" N - -132°5'29" W NTS Mapsheet(s): 105C01 Location Comments: .5 Kilometres Hand Samples Available: No Last Reviewed:

Capsule

Work History

Fairfield Minerals Ltd carried out reconnaissance prospecting and rock, soil and silt sampling prior to staking Mor cl 1-4 (YB89971) in Sep/97. In 1998 the company carried out grid soil sampling, ground magnetic and VLF-EM geophysical programs and minor blast trenching before adding Mor cl 5-8 (YB91626) and Mor cl 9-12 (YB91820) in Sep/98. In Apr/99 Fairfield staked Mor 13-52 (YB92029) before optioning the claims to Brett Resources Inc later in the year.

Brett Resources concentrated their efforts on exploring the newly staked claims. The company prospected and carried out a wide spaced soil sampling program on the new claims before relinquishing its option in Dec/99.

In 2000, Fairfield Minerals carried out additional grid soil sampling and ground magnetic and VLF-EM geophysical surveys. The company also used a portable power auger to collect more detailed soil and rock samples in the vicinity of the Discovery s

Capsule Geology

The area is located in the southeastern portion of the Teslin (105C) topographic map sheet. Geologists employed by the Ancient Pacific Margin NATMAP project; a projected jointly funded by the Geological Survey of Canada, the British Columbia Geological Survey and the Yukon Geology Program, are presently re-mapping the area, including the rocks in the occurrence area. Exploration interest in the region has recently risen as most of the rocks appear similar in age (Devonian ¿ Mississippian) and lithology to those hosting volcanogenic massive sulphide mineralization in the Finlayson Lake district.

The occurrence is located within the Big Salmon Complex a sequence of Late Devonian to late Mississippian deformed and metamorphosed rocks considered to be part of the Yukon-Tanana Terrane. Recent work by Roots et al., (2000) suggests that the stratigraphic order of units in the Big Salmon Complex is as follows: 1) greenstone; 2) crinkled chert exhibiting red to pink hues from hematite and piedmont; 3) buff-weathering white carbonate; 4) mixed metavolcanic/metasedimentary rocks, including graphitic metaconglomerate and meta-tuff layers; and 5) immature clastic metasediments. Numerous Mid-Cretaceous age intrusions of varying size are known to occur in the area.

Fairfield Minerals¿ initial reconnaissance program in 1997 uncovered the Discovery showing, described as quartz rich muscovite-sericite and chlorite-biotite schist hosting strongly disseminated to semi-massive pyrite, chalcopyrite and other minor sulphides. Follow-up grid soil sampling outlined a 2 000 m long by 100-250 m wide Pb, Zn, Ag and Cu soil anomaly. The ground EM survey outlined 3 EM conductors, one of which was coincident with the main soil anomaly. Grab and chip samples collected from trenches blasted into the showing returned assays up to 10 520 ppm Cu, 5 081 ppm Pb, 5 515 ppm Zn, 82.2 ppm Ag and 8 910 ppb Au.

Soil sampling carried by Brett Resources outlined a Cu soil anomaly in the eastern part of the property, however the widely spaced lines used in the survey prevented the company from properly analyzing the anomaly. Detailed geological mapping of the Discovery showing outlined several felsic horizons within enclosing mafic volcanics. Mapping traced these horizons over a strike length of approximately 900 m.

The auger sampling program refined the existing geochemical and geophysical anomalies located along the Discovery showing and located significant blind mineralization at two widely separated locations situated within this trend. Auger sampling of these new showings, which may represent new and previously untested felsic horizons, returned assays up to 1 226 ppm Cu, 5 724 ppm Pb, 466 ppm Zn, 109.2 ppm Ag and 2 139 ppb Au.

Mortensen and Gabites (2002), carried out lead isotopic studies in the region, including the Mor occurrence. A pyrite sample collected from felsic schist at the Discovery showing fell somewhat below the shale curve and yielded a broadly Devonian-Mississippian model age, consistent with the inferred age of the host strata and thus providing strong support for a syngenic origin (i.e. stratiform) for this mineralization.

References

BRETT RESOURCES INC, 1999. Assessment Report #094033 by G.D. Bradshaw.

FAIRFIELD MINERALS LTD, 1999. Assessment Report #094006 by E.A. Balon and W.J. Jakubowski.

FAIRFIELD MINERALS LTD, 1999. Assessment Report #094205 by E.A. Balon and W.J. Jakubowski.

FAIRFIELD MINERALS LTD, May/2002. Web Site: www.fairfieldminerals.com.

MORTENSEN, J.K., AND GABITES, J.E., 2002. Lead isotopic constraints on the metallogeny of southern Wolf Lake, southeastern Teslin and northern Jennings River map areas, Yukon and British Columbia: Preliminary results. 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. 179-188.

NELSON, J.L., ET AL., 2000. Ancient Pacific Margin: A preliminary comparison of potential VMS-hosting successions of the Yukon-Tanana Terrane, from Finlayson Lake district to Northern British Columbia. 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. 79-86.

ROOTS, C.F., ET AL., 2000: Revision mapping of the Yukon-Tanana and equivalent terranes in northern British Columbia and southern Yukon Territory between 1310 and 1320W; Geological Survey of Canada, Current Research 2000-A4, 10p.

YUKON EXPLORATION AND GEOLOGY 1999, p. 22, 29; 2000, p. 11-12, 25; 2001, p. 10.

Work History

WORK ПЕСОГУ						
Date	Work Type	Comment				
12/31/2000	Geochemistry	Resampled showings.				
12/31/2000	Geochemistry	Mostly infill sampling using power auger.				
12/31/2000	Ground Geophysics	Also VLF-EM survey.				
12/31/1999	Geochemistry					
12/31/1999	Other					
12/31/1998	Geochemistry	Grid based.				
12/31/1998	Ground Geophysics	Also VLF-EM survey.				
12/31/1998	Trenching	Small blast trenching program.				
12/31/1997	Geochemistry	Also soil and silt sampling. Program was reconnaissance in nature.				
12/31/1997	Other	Program was reconnaissance in nature.				

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<u>095427</u>	2010	Assessment Report Describing Diamond Drilling at the Mor Property	Diamond - Drilling, Diamond - Drilling, Drill Core - Geochemistry, Drill Core - Geochemistry	4	887.66
<u>095217</u>	2009	Assessment Report Describing Gravity Surveys and Lithogeochemical Sampling at the Mor Property	Gravity - Airborne Geophysics, Rock - Geochemistry		
<u>095073</u>	2008	Assessment Report Describing Diamond Drilling at the Mor Property	Electromagnetic - Airborne Geophysics, Gravity - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Soil - Geochemistry	8	1703
<u>095018</u>	2007	Assessment Report Describing Diamond Drilling at the Mor Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Soil - Geochemistry	4	686
<u>094530</u>	2005	Geological Report for the Morley River Gold - VMS Project	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics		
<u>094205</u>	2000	2000 Mor Property Geochemical and Geophysical Assessment Report	Rock - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics		
<u>094033</u>	1999	Report on Geological and Geochemical Surveys on the Mor Property, Yukon Territory	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
<u>094006</u>	1998	Summary Report on the Mor Property, (Mor 1-12 Claims) Including Geophysical Assessment and Trenching Assessment	Rock - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Backhoe - Trenching		

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
MOR-10-01	Mor	2010	BTW	20	8
MOR-10-02	Mor	2010	BTW	34	8
<u>MOR-08-05</u>	Mor	2008	BTW	4	2
MOR-08-06	Mor	2008	BTW	2	2
MOR-08-07	Mor	2008	BTW	2	2
MOR-07-01	Mor	2007	BTW	20	2
<u>MOR-07-02</u>	Mor	2007	NTW	20	2
MOR-07-04	Mor	2007	NTW	14	2
MOR-08-12	Mor	2007	BTW	4	2
MOR-04-001	Mor	2004	NQ2	10	8
MOR-04-002	Mor	2004	NQ2	14	8