



Occurrence Details

Occurrence Number: 105G 006

Occurrence Name: Tintina

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: lead, silver, zinc

Secondary Commodities: bismuth, cadmium, copper, gold

Aliases: Eagle

Deposit Type(s): Manto Polymetallic Ag-Pb-Zn

Location(s): 61°8'30" N - -131°9'2" W

NTS Mapsheet(s): 105G03

Location Comments: Location from AR091989 and satellite imagery

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked in Jul/61 as Eagle cl (76323) by Conwest and central Patricia Gold ML, which formed a new company, Tintina Silver ML, to develop the property. Tintina built a 33.5 km winter road from Mile 780 on the Alaska Highway the following winter and completed 557.8 m of drifting, 190.5 m surface drilling (6 holes) and 975.4 m underground drilling (22 holes) in 1962. Fringe claims were held at the time by Frobisher L (Arco cl- 76879) and by a syndicate composed of N.S. Edgar, D.R. Murphy, Magdalena Corp L, Canberra OCL, A. MacGregor, Veezay Helicopters L, and Cordilleran Pet of Can L (Jess and Norm cl - 77206).

After control was sold to a private group in 1967, Tintina explored with geochem surveys in 1968; mapping, hand trenching and 97 holes (3,626.8 m) in 1974; and mapping, geochem and EM surveys in 1975, and added more Eagle cl in Sep/74 and Sep/75. Fringe claims include New cl (Y74260) in Sep/73 to the north by New Senator Rouyn ML which did a little drilling in 1974 and 1981 and Jim cl (Y74575) in Mar/74 to the east by Envoy Res L, which conducted mapping and geochem sampling. Tintina added 100 Cec, etc cl (Y94498) to the south in May/76 and drilled 11 holes (1,230.2 m), in addition to mapping and sampling on the New claims.

The company changed its name to Tintina Mining Ltd and conducted a trenching and sampling program in 1980. Metallgesellschaft performed mapping in 1983 under a brief option. In 1984, Tintina conducted mapping and hand trenching. The property was optioned briefly by Cancord Res in 1986. In 1987, Tintina Mining drilled 15 holes (1,712 m).

Capsule Geology

The property is situated within a hornfels halo up to 3.2 km wide developed in Cambrian limestone and phyllite around a Jurassic-Cretaceous stock. Unmineralized garnet-diopside-epidote skarn occurs locally at the contact. The host rocks consist of three limestone horizons separated by argillite. This sequence displays locally complex structure near the showings, including a northwest trending anticline, minor drag folds and abundant small scale thrust and cross faults. Conwest recognized 22 vein showings in an area of 121.4 ha.

In 1974-75, most of the individual vein zones were reinterpreted as portions of larger, structurally controlled, stratabound deposits within the carbonate horizons. Four modes of mineralization are present. The most important consists of a 90 m long zone of massive to disseminated sphalerite, galena and tetrahedrite in the middle limestone unit (called the Upper Limestone). Mineralization is best developed at the crests of small anticlinal folds close to the overlying argillite (Conwest Showings 1, 2, 3, 4 and 10). Similar showings which contain relatively more sphalerite and are generally smaller, occur in the lower limestone horizon (Conwest Showings 5, 6, and 7). A third type consists of pods of massive galena with minor sphalerite in calcite-quartz veins associated with thrust faults at the base of the uppermost argillaceous limestone (Conwest Showings 8 and 9). The fourth type consists of chalcopyrite in veins, usually within the argillaceous limestone.

The 1962 sampling indicated an average grade of 1440 g/t Ag, 17% Pb and 9% Zn across a width of 1.5 m. The 1976 drilling, situated between Zones 10 and 15 and in the saddle west of Zone A, did not cut anything of commercial significance. Indicated and inferred reserves were reported as 90,719 tonnes grading 685.7 g/t Ag 6.0% Pb and 10.0% Zn in 1979. The 1980 trenching gave grades of 1,419 g/t Ag, 22.1% Pb and 12.5% Zn across widths 0.3 to 2.1 m over a 150 m length of vein 8.

A new antimony-rich lead-bismuth sulphosalt was identified here in 1967 and given the name Tintinaite. The bismuth end-member is kobeinite.

The 1987 drilling returned generally low assays, except for holes 787-05 in the main zone near the adit which assayed 1.1 g/t Au, 48 g/t Ag, 0.1% Pb, and 2.9% Zn over 2.6 m; and T87-14, 700 m to the northwest, which averaged 923 g/t Ag, 11% Pb and 14% Zn over 3 m.

Work History

Date	Work Type	Comment
12/31/1987	Drilling	Fifteen holes, 1,712 m.
12/31/1984	Geology	
12/31/1984	Trenching	
12/31/1983	Geology	
12/31/1976	Drilling	Eleven holes, 1,230.17 m.
12/31/1976	Geology	
12/31/1976	Other	
12/31/1975	Geology	
12/31/1975	Geochemistry	
12/31/1975	Ground Geophysics	
12/31/1974	Drilling	Ninety-seven holes, 3,626.82 m.
12/31/1974	Geology	

12/31/1974	Trenching	
12/31/1968	Geochemistry	
12/31/1962	Drilling	Six holes, 190.5 m.
12/31/1962	Development, Underground	Dug 557.78 m.
12/31/1962	Development, Surface	Winter road construction.
12/13/1962	Drilling	Twenty-two holes, 975.4 m. Underground drilling.
11/1/1975	Drilling	29 holes, 3,626.00 m
11/1/1975	Ground Geophysics	
11/1/1975	Trenching	
11/1/1975	Geochemistry	
11/1/1973	Pre-existing Data	
11/1/1973	Pre-existing Data	
11/1/1962	Geology	
11/1/1961	Geochemistry	
11/1/1961	Drilling	18 holes, 86.6 m
11/1/1961	Geology	
11/1/1961	Other	
11/1/1961	Trenching	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
061472	1975	1975 Exploration Programme Eagle Claim Group	Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Data Compilation - Pre-existing Data, Hand - Trenching	29	3626
061471	1975	1975 Exploration Programme: Geological/Geophysical and Geochemical Report on the Eagle Claim Group	Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics		
061170	1973	Report on the Eagle Claims Tintina Silver Mines Ltd. Yukon Territory	Data Compilation - Pre-existing Data, Research/Summarize - Pre-existing Data		
017491	1962	Geological Report on the Reconnaissance Survey of the Ings River Area	Regional Bedrock Mapping - Geology		
018900	1961	Tintina Silver Mines Limited Report of Work on Eagle Claims, Yukon Territory	Diamond - Drilling, Rock - Geochemistry, Bedrock Mapping - Geology, Line Cutting - Other, Mechanical - Trenching	18	86.60

Related References				
Number	Title	Page(s)	Reference Type	Document Type
ARMC001851	Geological map of the Tintina fault zone area		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC001852	Geologic cross section of the Yukon-Tanana terrane		Property File Collection	Geoscience Map (General)
ARMC007629	Summary report - Silver property		Property File Collection	Report
ARMC007630	Annual report 1983 - Tintina Mines		Property File Collection	Report
ARMC007631	Silver property notes - Tintina Mines		Property File Collection	Miscellaneous Company Documents
ARMC007632	Correspondence Re: Tintina Silver Mines Ltd.		Property File Collection	Miscellaneous Company Documents
ARMC007633	Press release - Shareholder letter - Tintina Mines		Property File Collection	News Release
ARMC007634	Annual Report 1973 - Tintina Mines		Property File Collection	Report
ARMC007635	Prospectus report - New issue May 21, 1974 - Tintina Mines		Property File Collection	News Release
ARMC013952	Report of underground work carried on Feb. 1st to July 30th, 1962 - Tintina Silver Mines Limited - Yukon Territory		Property File Collection	Report
ARMC01395			Property File	

ARMC013951	Report of work - Eagle claims - Tintina Silver Mines - Yukon Territory		Property File Collection	Report
ARMC013954	Report on Tintina Silver Mines Limited, Eagle claims in the Yukon Territory		Property File Collection	Report
ARMC013955	Summary report on Eagle 1-92 and 115-130 claims, Yukon Territory for Tintina Silver Mines Ltd.		Property File Collection	Report
ARMC013957	Memorandum re: Tintina Silver Mines Ltd. Property		Property File Collection	Miscellaneous Company Documents
ARMC013956	1968 exploration program - Eagle property & area, Yukon - For Tintina Silver Mines Ltd.		Property File Collection	Report
ARMC013953	Geological report on Tintina Silver Mines Limited		Property File Collection	Report
ARMC013958	Correspondence re: Tintina Silver Mines Ltd.		Property File Collection	Miscellaneous Company Documents

Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
1980	TINTINA - TOTAL RESERVS (UNDERGROUND)	Historical Estimate	lead	6 %	90,719		No	No	Unknown
Company reported this figure as indicated reserves. Based on surface and undrerground exploration.; Figures came from Canadian Mines Handbook 1980-81 p. 269. Repeated in 1999-200 handbook. Figure is not National Instrument 43-101 compliant.									
1980	TINTINA - TOTAL RESERVS (UNDERGROUND)	Historical Estimate	silver	685.7 g/t	90,719		No	No	Unknown
Company reported this figure as indicated reserves. Based on surface and undrerground exploration.; Figures came from Canadian Mines Handbook 1980-81 p. 269. Repeated in 1999-200 handbook. Figure is not National Instrument 43-101 compliant.									
1980	TINTINA - TOTAL RESERVS (UNDERGROUND)	Historical Estimate	zinc	10 %	90,719		No	No	Unknown
Company reported this figure as indicated reserves. Based on surface and undrerground exploration.; Figures came from Canadian Mines Handbook 1980-81 p. 269. Repeated in 1999-200 handbook. Figure is not National Instrument 43-101 compliant.									

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
T76-1	Tintina	1976	BQ	0	2
T76-10	Tintina	1976	BQ	0	1
T76-11	Tintina	1976	BQ	0	1
T76-2	Tintina	1976	BQ	0	2
T76-3	Tintina	1976	BQ	0	1
T76-4	Tintina	1976	BQ	0	1
T76-5	Tintina	1976	BQ	0	2
T76-6	Tintina	1976	BQ	0	1
T76-7	Tintina	1976	BQ	0	2
T76-8	Tintina	1976	BQ	0	1
T76-9	Tintina	1976	BQ	0	2