



Occurrence Details

Occurrence Number: 105B 021

Occurrence Name: Silver Hart-TM Zone

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: lead, silver, zinc

Aliases: Bastille, Cmc, Hart, Mid, TM, Silver Hart

Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au

Location(s): 60°19'45" N - -130°44'41" W

NTS Mapsheet(s): 105B07

Location Comments: Location from map in 2020 NI43-101 technical report

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

First staked as Bastille cl (57459) in Aug/48 by Great Northern Exploration Company Ltd, headed by Dr. F.W. Galbraith of the University of Arizona. Restaked as Mid cl 1-29 (Y64349) in Sep/71 by Wolf Lake Joint Venture (Rayrock Mines Ltd, Ashland Oil Inc and Caltor Syndicate), which carried out grid soil sampling and detailed geological mapping in 1972.

Restaked as CMC cl 1-24 (YA56628) in Sep/80 by A.W. Hyde, who trenched later in the year. The CMC cl 25-136 (YA66067) were staked in Jul/81 to surround the occurrence. The claims were optioned to BRX Mining & Petroleum Corp in 1982, which carried out geological mapping, geochemical sampling and drilled 2 holes (197 m) later that year. McDame Project (BRX Mining & Petroleum Ltd, Eldorado Minerals & Petroleum Corp and Highmark Resources Ltd) tied on BRX cl 1-20 (YA68275) to the west in May/82 and carried out geological mapping and geochemical sampling later in the year.

After the first option expired, Hyde performed more trenching in 1983 with T. McCrory & B. Preston before optioning the property to United Greenwood Exploration Ltd & Consolidated Montclerg Mines Ltd late in 1983.

When the option lapsed, the owners trenched again and optioned the property for a third time in Nov/84 to a joint venture between Silver Hart Mines Ltd and Shakwak Exploration Company Ltd. The joint venture added about 500 SH, Sab & Bea cl (YA72267) between Oct/84 and Feb/85 and explored with trenching, 50 drill holes (3,658 m), a 673 m adit and 2 raises, and built a 40 km access road in 1985-86.

Early in 1986, Shakwak sold its interest to Ark La Tex Industries Ltd. Silver Hart drilled 4 holes (609.6 m) in 1987 on the main showing and carried out extensive bulldozer trenching of the occurrence and the surrounding claims. Following a feasibility study in 1988, a \$10 million deal was signed with with Morgan-Gundy to put the property into production however a drop in silver prices lead to the project's eventual cancellation. Trenching and environmental reclamation was carried out in July and Aug/92.

The CMC claims were later returned to W. Hyde, B. Preston and T. McCrory (60%, 20% and 20%, respectively) who performed environmental reclamation, road construction and bedrock stripping from June to Aug/93. Hyde carried out magnetometer and EM geophysical surveying in 1999. In Jan/2000, 100% interest in the CMC claims was transferred to Hyde. Hyde continued environmental reclamation work, road construction and bedrock stripping in 2000.

In Feb/2005, Bellevue Capital Corporation acquired a 100% interest in the CMC silver property. A technical report prepared in accordance with National Instrument 43-101 was completed at that time. Bellevue was subsequently reorganized and renamed CMC Metals Ltd.

From 2006 to 2010, CMC completed prospecting, geological mapping, trenching, road work, metallurgical testing and drilled 6 068 m in 95 holes. In 2010 the company complete an updated resource estimate.

The site was relatively dormant from 2011 to 2016.

From 2017 to 2022, the company drilled 8 391 m in 71 holes.

Capsule Geology

The original showing consists of galena in leached gossans which cut Cambrian or older biotite-quartz schist, limy hornfels and calcareous horizons near the margin of the mid Cretaceous Cassiar Batholith. Pyritic zones in the schist contain minor chalcopyrite. Minor scheelite, molybdenite, galena and sphalerite are also present in narrow skarn zones near the intrusive contact. Gossan specimens collected at surface in 1971 gave assays up to 270 g/t Ag, 18.5% Pb and 10.1% Zn.

A silver-rich vein was found about 1.6 km to the west in 1982-84. It strikes 045°, dips steeply southeast and is best developed at the batholith contact, which it offsets about 150 m in a left-handed direction. The vein consists of a wide shear zone containing lenses of galena, tetrahedrite and sphalerite. Three mineralized zones about 1.8 m wide named the TM, FM & SM, have been traced for an aggregate length of 1160 m.

Float with similar mineralogy is reported from two areas to the east that also lie near the batholith contact. A new zone (Meteorite Zone) was discovered in 1986 north and east of the FM Zone. It appears to consist of 3 parallel veins. Chip samples taken along a 21 m strike length averaged 1,187.8 g/t Ag across 1.5 m.

Trenching in 1987 identified numerous other mineralized areas. At the end of 1987, Silver Hart reported reserves of 97,370 tonnes grading 1025.1 g/t Ag.

The 1999 geophysical program outlined 5 anomalous areas that contain one or more conductors and/or magnetic anomalies. Three of the areas displayed evidence of previous trenching and/or surface mineralization and two are new untested targets. Hyde trenched some of the targets the following year but the majority of trenching was reclamation based. Hyde did not file any assays or rock descriptions and only claimed assessment costs for physical work, i.e. volume of material moved.

A resource estimate, incorporating the 2005-2009 drilling, was released in a report dated January 14, 2010 by Dahrouge Consultants. The resource is quoted at two cut-off grades, which were determined at a silver price of \$8.60/oz.

At a cut-off grade of 600g/t AgEq, the combined resource for the TM, KL and M zones is calculated at 69 500 tonnes grading 555.66g/t Ag, 1.89% Pb and 9.12% Zn for 1.24M oz (38.5 Mg) Ag. At a cut-off grade of 900g/t AgEq, the combined resource for the TM and M zones total 27 300 tonnes grading 901.04g/t Ag, 3.21% Pb and 12.79% Zn for approximately 0.9 Moz (28 Mg) Ag.

Work History

Date	Work Type	Comment
12/31/1999	Ground Geophysics	Also EM survey .
12/31/1993	Development, Surface	
12/31/1993	Development, Surface	
12/31/1992	Trenching	
12/31/1987	Drilling	Four holes, 609.6 m.
12/31/1987	Trenching	

12/31/1986	Trenching	
12/31/1985	Development, Underground	
12/31/1985	Development, Surface	
12/31/1985	Trenching	
12/31/1983	Trenching	
12/31/1982	Drilling	Two holes, 197 m.
12/31/1982	Geology	
12/31/1982	Geochemistry	
12/31/1980	Trenching	
12/31/1972	Geology	
12/31/1972	Geochemistry	
12/13/2005	Studies	Report written by Bellevue Capital Corporation.
12/13/1992	Development, Surface	
12/13/1986	Drilling	Fifty holes, 3,658 m.
12/1/2022	Drilling	22 holes, 4,400 m
12/1/2021	Drilling	19 holes, 2,100 m
12/1/2019	Drilling	16 holes, 1,048 m
12/1/2017	Drilling	14 holes, 843 m
12/1/2011	Drilling	95 holes, 6,068 m
12/1/2010	Drilling	21 holes, 820 m
12/1/2009	Drilling	28 holes, 1,929 m
12/1/2008	Drilling	16 holes, 1,094 m
12/1/2007	Drilling	1,500 m
12/1/2006	Drilling	10 holes, 725 m
1/14/2010	Studies	Dahrouge Geological Consulting Ltd, Jan 2010.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096832	2015	Assessment Report Describing Ground Surveying, Orthophoto Creation and Contour Generation	Orthophoto - Airphotography, Surveying - Other		
093727	1993	Evaluation Report Physical Representation Report CMC/GL Quartz Claims	All Weather Road - Development, Surface, Environmental Clean-up - Development, Surface, Reclamation - Development, Surface		
091992	1987	Hart Silver Property, Yukon Territory, Evaluation Survey	Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other, Mechanical - Trenching		
091990	1987	Interpretation of Color Aerial Photography for the Hart Silver Property	Orthophoto - Airphotography		
092034	1983	Report on the CMC Claims	Property Evaluation - Other		
062137	1982	Qualifying Report on the CMC Claims	Property Evaluation - Other		
091084	1982	Qualifying Report on the CMC Claims	Rock - Geochemistry, Soil - Geochemistry		
060883	1972	Nite and Mid Claims Report Geology, Geochemistry, Trenching and Diamond Drilling	Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry	8	458

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC007614	Examination notes - CMC claims		Property File Collection	Miscellaneous Company Documents
ARMC007615	Property exams - CMC claims		Property File Collection	Report
ARMC007616	Additional sampling - CMC claims		Property File Collection	Miscellaneous Company Documents
ARMC007617	Map - S2 and FM trench area geology - CMC claims - Edgar Lake area		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC007609	Certificate of assay - A8413612-001-A - CMC claims		Property File Collection	Assays
ARMC007610	Certificate of assay - A8414422-001-A - CMC claims		Property File Collection	Assays

ARMC007613	Notes - Examination - Jack property		Property File Collection	Miscellaneous Company Documents
ARMC007611	Certificate of assay - A8412840-001-A - CMC claims		Property File Collection	Assays
ARMC007612	Notes - Examination - CMC claims		Property File Collection	Miscellaneous Company Documents

Resource/Reserve									
Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
2010	TM (Open Pit)	Inferred	silver	620.36 g/t	40,700		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	TM (Open Pit & Underground)	Inferred	lead	1.29 %	40,700		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	TM (Open Pit & Underground)	Inferred	zinc	10.7 %	40,700		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	KL (Open Pit & Underground)	Inferred	silver	368.52 g/t	16,200		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	KL (Open Pit & Underground)	Inferred	lead	1.03 %	16,200		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	KL (Open Pit & Underground)	Inferred	zinc	7.82 %	16,200		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	M (Open Pit & Underground)	Inferred	silver	588.11 g/t	12,600		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	M (Open Pit & Underground)	Inferred	lead	4.91 %	12,600		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	TM (Open Pit & Underground)	Inferred	zinc	15.75 %	19,400		No	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	M (Open Pit & Underground)	Inferred	silver	777.77 g/t	8,000		No	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	M (Open Pit & Underground)	Inferred	lead	6.06 %	8,000		No	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	M (Open Pit & Underground)	Inferred	zinc	5.58 %	8,000		No	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	M (Open Pit & Underground)	Inferred	zinc	5.69 %	12,600		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	Combined TM+KL+M @ 600g/t AgEq COG (Open Pit & Underground)	Inferred	silver	555.66 g/t	69,500	38568311	Yes	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	Combined TM+KL+M @ 600g/t AgEq COG (Open Pit & Underground)	Inferred	lead	1.89 %	69,500		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	Combined TM+KL+M @ 600g/t AgEq COG (Open Pit & Underground)	Inferred	zinc	9.12 %	69,500		No	Yes	600g/t AgEq* \$160/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	TM (Open Pit & Underground)	Inferred	silver	951.67 %	19,400		No	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	TM (Open Pit & Underground)	Inferred	lead	2.04 %	19,400		No	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	Combined TM+M @ 900g/t AgEq/t COG (Open Pit & Underground)	Inferred	silver	901.04 g/t	27,300	27993129	Yes	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	Combined TM+M @ 900g/t AgEq/t COG (Open Pit & Underground)	Inferred	lead	3.21 %	27,300		No	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2010	Combined TM+M @ 900g/t AgEq/t COG (Open Pit & Underground)	Inferred	zinc	12.79 %	27,300		No	Yes	900g/t AgEq* \$240/t
Dahrouge Geological Consulting, Jan 2010. Resource reported at two cut-off grades (COG), based on Ag= \$8.60/oz.									
2005	HART (UNDERGROUND)	Inferred	silver	1824 g/t	59,893		No	Yes	Unknown
Based on historical estimates completed by Marshall Smith in 1988.; Technical report on CMC Silver Property by W.S Read and J. A. McCrea. Authors questioned validity of some of Smith's assumptions. Declared calculations historical. Do not meet National Instrument 43-101 standards.									
2005	HART (OPEN PIT)	Inferred	silver	2088 g/t	45,634		No	Yes	Unknown

Based on historical estimates completed by Marshall Smith in 1988.; Technical report on CMC Silver Property by W.S Read and J. A. McCrea. Authors questioned validity of some of Smith's assumptions. Declared calculations historical. Do not meet National Instrument 43-101 standards.

1988	HART (OPEN PIT)	Historical Estimate	silver	1025.1 g/t	97,370		No	No	Unknown
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Reserve figures appear to have been obtained from feasibility study written in late 1987 but never released to government.; 1987 Yukon Mining And Exploration Overview. See also Silver Hart Overview Report December 1987.