



Occurrence Details

Occurrence Number: 105D 009

Occurrence Name: Big Thing

Occurrence Type: Hard-rock

Status: Deposit

Date printed: 7/21/2025 1:13:01 PM

General Information

Primary Commodities: gold, silver

Aliases: Arctic, Caribou, Sugarloaf Hill

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

Location(s): 60°4'34" N - 134°42'1" W

NTS Mapsheet(s): 105D02

Location Comments: .1 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Caribou, Pride of Yukon, etc cl (2997) in Jul/05 by J.H. Conrad and transferred to Conrad Cons ML. The claims were surveyed and taken to lease in 1910 by British Yukon Gold ML. Development completed by Conrad consisted of a 137.2 m incline shaft and 230.1 m of drifting on 4 levels, plus a 707.1 m crosscutting adit with several raises, about 67 m below the bottom of the shaft. 2290 tonnes of ore were mined in 1910-12 by Conrad Cons, a small amount of underground development was done under option by Alaska Corp in 1915-16, and Inca Mg CL did some surface trenching in 1936-37.

The property then lay idle until Jun/62 when the Peerless cl (77828) were staked on three sides of the original two claims. These were transferred in Mar/66 to Lion Nickel ML, which extended the lower adit 229 m in 1967 and drilled 33 holes (1617.3 m) underground in 1968 before transferring the claims to Indian Mountain Met ML in Oct/71. National Malarctic Gold ML tied on the Jack cl (Y775) to the northwest in Mar/66. Arctic Mg & EL optioned the three original leased claims in Jul/65 from J. Phelps and J. Scott, who had acquired them in 1942, added the adjoining Eagle, etc cl (92327), and rehabilitated the old mine and started a new adit, 6 m below the lowest original level, later in the year. The name was changed to Arctic Gold & Silver ML in early 1968.

After extensive underground development in 1966 and 1967, construction of a 272 tonne mill commenced in Jun/67 on ore reserves of 231 262 tonnes grading 23.32 g/t Au and 675.42 g/t Ag. The mill operated between May-Dec/68 and Mar-Oct/69 and treated 50 751 tonnes, some of which was development muck, before closing due to unsatisfactory recoveries. Arctic did some underground rehabilitation in 1975 and 1976 and stockpiled a small tonnage of ore. In 1976 the company announced plans to mine 19.6 tonnes of ore per day from Block A and process it at the Mt Nansen mill (Minfile Occurrence #115 066), located south of Carmacks, Yukon. The plan was never implemented.

The original leases were transferred in 1978 to Peso Silver Mines Ltd, which changed its name to Rex Silver Mines Ltd in 1979. In the fall of 1982 Rex Silver Mines contracted Dolmage Campbell & Associates Ltd to carry out a compilation study on the property which included an updated reserve calculation.

Recent fringe staking includes Silver cl (Y78158) in Mar/74 by D. Waugh; Sherrill cl (Y98645) in Jun/75 by R. McConnell; B.K. cl (YA24078) in Aug/79 by D. Gleeson, AC and AU cl (YA48675) to the north in Apr/80 by D. Branigan, and Ski-Doo cl (YA81129) to the NE in Dec/83 by Tally-Ho EL.

The leased claims were surrounded by Barb cl (YA86607) in May/85 by Boreal Eng Service Ltd, for Feather Gold Resources Ltd, who performed hand trenching in 1986, conducted VLF and magnetometer surveys in 1989, soil sampled and trenched in 1989 and added further Barb cl (YB27807) and trenched in 1990.

Andria Res Inc tied on Tag cl (YA94438) to the NE in May/86, while L. Brault tied on Tap cl (YB27127) to the southeast in Feb/90.

Capsule Geology

Gold and silver occur in three east-striking veins which dip 20-45° N and cut granodiorite of the Coast Plutonic Complex. Original mining and most of the Arctic & Lion Nickel work was done on the No. 2 or Big Thing Vein. Two other veins, No. 1 and Adit, were found in the 1965 Arctic adit in the footwall of No. 2. No. 1 was extensively drifted by Arctic and proved to be lower in grade. These veins are not true fissure fillings but consist, rather, of a discontinuous silicified zone on one or both walls of a tension fracture which sometimes horsetails and weakens. They were followed underground for over 800 m. An envelope of bleaching and pyritization extends up to 9.1 m either side of the vein. Mineralization consists of pyrite, arsenopyrite, sphalerite, galena and minor chalcopryrite. Weakly disseminated molybdenite is sometimes present in the alteration envelope.

The ore mined in 1910-12 had an average grade of about 35.3 g/t Au and 949.7 g/t Ag, while the 1968-69 production yielded 445 725 g of gold and 13 268 747 g of silver from ore reportedly grading 8.9 g/t Au and 308.6 g/t Ag. In 1976, Arctic reported that Block A held an estimated ore reserve of 2 268 tonnes grading 25.72 g/t Au and 1 337.12 g/t Ag.

As of Mar/83 the property contained proven and probable ore reserves of 74 526 tonnes grading 13.38 g/t Au and 329.14 g/t Ag (Rex Silver Mines, Annual Report 1983).

The Barb claims cover the old Peerless adit which intersected extensions of the No. 1 and No. 2 Veins. Sampling indicated that the dumps contain approximately 1,820 tonnes of mineralized quartz vein material. VLF surveys identified several major vein faults striking northeast across the claims.

Work at the Tag cl located moderately anomalous gold values up to 220 ppb which coincide with an east-trending moderate to weak VLF conductor.

References

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ARCTIC GOLD AND SILVER MINES LTD, Apr/76. Assessment report #061722 by E. Livgard.

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LION NICKEL MINES LTD, 1968. Assessment Report *#091113 by J. McMullin.

MINERAL INDUSTRY REPORTS, 1969-70, p.117-118; 1975, p.97-98

REX SILVER MINES LTD, ANNUAL REPORT 1983.

VANCOUVER STOCK EXCHANGE, 1990. Open File.

YUKON EXPLORATION 1987, p. 102-103; 1989, p. 33.

Work History

Date	Work Type	Comment
12/31/1976	Development, Underground	
12/31/1976	Other	
12/31/1975	Development, Underground	
12/31/1975	Other	
12/31/1969	Other	
12/31/1968	Development, Surface	Built 300 Ton per day mill.
12/31/1967	Other	
12/31/1966	Other	
12/31/1965	Development, Underground	
12/31/1965	Other	Drove new adit.
12/31/1937	Trenching	
12/31/1936	Trenching	
12/31/1916	Other	
12/31/1915	Other	
12/31/1912	Other	Amount of work done: 1074 METRES Work consisted of 137 m shafting, 230 m drifting, 707 m cross-cut raises. Carried out between 1911 and 1912.
12/31/1911	Other	
12/31/1910	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093215	1993	A Report on the Montana Mountain Property	Rock - Geochemistry, Prospecting - Other		

093216	1993	A Report on a Diamond Drilling Project on the Barb and TB Claims	Diamond - Drilling, Drill Core - Geochemistry	10	783.64
092986	1990	Report on the 1990 Work Program, Barb and Rat Claim Groups	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Line Cutting - Other, Backhoe - Trenching, Mechanical - Trenching		
092707	1988	Geophysical Report on the Barb 1-34 and Rat Claims	EM - Ground Geophysics, Magnetics - Ground Geophysics		
092614	1988	Report on the Montana Mountain Property, Whitehorse Mining District	Rock - Geochemistry, Soil - Geochemistry, Heavy Mineral Concentrate - Lab Work/Physical Studies, Mechanical - Trenching		
091932	1986	Evaluation Report on the Barb 1-34 Mineral Claims	Cursory Property Visit - Other, Property Evaluation - Other, Process/Interpret - Pre-existing Data		
061722	1975	Re-Evaluation of Ore Reserves at the Carcross Mine owned by Arctic Gold and Silver Mines Ltd.	Rehabilitation - Development, Underground, Bedrock Mapping - Geology, Cursory Property Visit - Other, Process/Interpret - Pre-existing Data		
062229	1968	An Evaluation of the ARCTIC MINING and EXPLORATION Ltd. Project	Data Compilation - Pre-existing Data, Process/Interpret - Pre-existing Data		
091113	1968	[Diamond Drill Logs for the Peerless Property]	Drifting/Raising - Development, Underground, Diamond - Drilling, Drill Core - Geochemistry	33	1597.15
018935	1967	Summary Report, Exploration Work on Carcross, Y.T. Property	Diamond - Drilling, Drill Core - Geochemistry	138	4904.84
019788	1967	Summary Report, Exploration Work on Carcross, Y.T Property	Drifting/Raising - Development, Underground, Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching	127	5806.44
018628	1967	Summary Report, Exploration Work on Carcross, Y.T Property	Drifting/Raising - Development, Underground, Diamond - Drilling, Soil - Geochemistry	127	5806.44
018629	1966	Assessment Report, Geological Report on the Peerless Claims	All Weather Road - Development, Surface, Rehabilitation - Development, Underground, Rock - Geochemistry		
018924	1966	Summary Report Montana Mountain Resources	Property Evaluation - Other		

Related References					
Number	Title			Page(s)	Document Type
ARMC013508	Plan map - Big Thing mine				Property File Collection Geoscience Map (General)
ARMC013504	Map showing ore reserves - Big Thing				Property File Collection Geoscience Map (General)
ARMC013507	Map showing topography & location of Big Thing - Broken Hill group of mineral claims				Property File Collection Geoscience Map (General)
ARMC013513	Summary report - Arctic Gold & Silver Mines Ltd., Carcross, Y.T. - Examination 4-7 October, 1968				Property File Collection Report
ARMC013506	Mine map - Big Thing mine - after R.F. Hill				Property File Collection Geoscience Map (General)
ARMC013509	Section and plan map - Big Thing mine				Property File Collection Geoscience Map (General)
ARMC013510	Section and plan map - Big Thing mine				Property File Collection Geoscience Map (General)
ARMC013505	Assay plan map no. 3 - Big Thing mine				Property File Collection Geoscience Map (General)

Resource/Reserve									
Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
1983	BIG THING - TOTAL RESERVES (UNDERGROUND)	Historical Estimate	silver	329.14 g/t	74,526		No	No	Unknown
Figures based on compilation report written by Dolmage Campbell & Associates Ltd. Figures represent Proven and Probable Reserves. Also 181,439 tonnes of possible ore (no grade reported).; Figure from Rex Silver Mines Ltd 1983 Annual Report. Also Canadian Mines Handbook 1983-84, p. 295. Figures not National instrument 43-101 compliant. Reported for historical purposes only.									
1983	BIG THING - TOTAL RESERVES (UNDERGROUND)	Historical Estimate	gold	13.38 g/t	74,526		No	No	Unknown
Figures based on compilation report written by Dolmage Campbell & Associates Ltd. Figures represent Proven and Probable Reserves. Also 181,439 tonnes of possible ore (no grade reported).; Figure from Rex Silver Mines Ltd 1983 Annual Report. Also Canadian Mines Handbook 1983-84, p. 295. Figures not National instrument 43-101 compliant. Reported for historical purposes only.									
1976	BIG THING - BLOCK A (UNDERGROUND)	Historical Estimate	silver	1337.12 g/t	2,268		No	No	Unknown
Estimated ore reserve in Block A. Company planed to mine 19.6 tonnes of ore per day from Block A and process it at Mt. Nansen mill located south of Carmack, Yukon. Plan never implemented.;; Canadian Mines Handbook 1976-77, p. 30.									
1976	BIG THING - BLOCK A (UNDERGROUND)	Historical Estimate	gold	25.72 g/t	2,268		No	No	Unknown
Estimated ore reserve in Block A. Company planed to mine 19.6 tonnes of ore per day from Block A and process it at Mt. Nansen mill located south of Carmack, Yukon. Plan never implemented.;; Canadian Mines Handbook 1976-77, p. 30.									
1967	BIG THING - TOTAL RESERVES (UNDERGROUND)	Historical Estimate	silver	675.42 g/t	231,262		No	No	Unknown
Combination of Proven, Probable and Inferred Reserves. Figure wasn't broken out into individual categories. Based on underground drilling and exploration drifting.;; Geological Survey of Canada, Paper 68-68. Figure came from Arctic Gold and Silver Mines Ltd, 1967 Annual Report. See also Mineral industry Report 1969-1970 p. 118.									
1967	BIG THING - TOTAL RESERVES (UNDERGROUND)	Historical Estimate	gold	23.32 g/t	231,262		No	No	Unknown
Combination of Proven, Probable and Inferred Reserves. Figure wasn't broken out into individual categories. Based on underground drilling and exploration drifting.;; Geological Survey of Canada, Paper 68-68. Figure came from Arctic Gold and Silver Mines Ltd, 1967 Annual Report. See also Mineral industry Report 1969-1970 p. 118.									

Drill core at YGS core library					
Number	Property	Year Drilled	Core Size	Photos	Data

109-1	Big Thing	1968	AQ	0	1
109-10	Big Thing	1968	AQ	0	1
109-13	Big Thing	1968	AQ	0	1
109-15	Big Thing	1968	AQ	0	1
109-17	Big Thing	1968	AQ	0	1
109-18	Big Thing	1968	AQ	0	1
109-19	Big Thing	1968	AQ	0	1
109-2	Big Thing	1968	AQ	0	1
109-23	Big Thing	1968	AQ	0	1
109-26	Big Thing	1968	AQ	0	1
109-7	Big Thing	1968	AQ	0	1
113	Big Thing	1967	BQ	0	2
114	Big Thing	1967	BQ	0	2
121	Big Thing	1967	BQ	0	2
135	Big Thing	1967	BQ	0	2
29-15	Big Thing	1967	AQ	0	0
29-16	Big Thing	1967	AQ	0	0
GS-1	Big Thing	1967	AQ	0	0
S-3	Big Thing	1967	AQ	0	2
U-175	Big Thing	1967	BQ	0	2
U-176	Big Thing	1967	BQ	0	2