



Occurrence Details

Occurrence Number: 105D 027
Occurrence Name: Becker-Cochran
Occurrence Type: Hard-rock
Status: Deposit
Date printed: 4/29/2025 12:56:38 AM

General Information

Primary Commodities: antimony
Secondary Commodities: copper, gold, lead, nickel, silver, zinc
Aliases: Yukon Antimony
Deposit Type(s): Vein & Disseminations Stibnite
Location(s): 60°11'5" N - -135°12'54" W
NTS Mapsheet(s): 105D03
Location Comments: .5 Kilometres
Hand Samples Available: Yes
Last Reviewed:

Capsule

Work History

Originally staked sometime prior to 1907 as Paymaster, Jumbo, Queen of Sheba, etc cl, for which no claim records or history have been preserved. Restaked about 1915 by T. Becker and H. Cochran, who explored with limited hand trenching and drove a 30.5 m adit.

Restaked as Caroline, etc cl (19289) in 1940 by J. Cox and W. McAlister, who carried out hand trenching until 1948; restaked Caroline claim as Mac cl (57581) in Jul/49; and drove a 27.4 m adit in 1951. Restaked as Lum cl 2-8, Al cl 1-8, Ed cl 1-8 and Star cl 1-8 (82036) in Oct/62 by A. Gatey et al.

Restaked as Lum cl 1-8 (90251) in Jun/64 by Yukon Antimony Corporation Ltd, which carried out extensive trenching, geological mapping and bulk sampling in 1964; drove 3 adits totaling 431.2 m and drilled 566.9 m (about half underground) during 1965 and 1966; optioned the property to National Lead Company Ltd from June to Sep/70; and reorganized as International Mariner Resources Ltd in Feb/71.

Restaked as Pop cl 1-14 (Y75415) in May/73 and May/74 by E. Bergvinson and optioned briefly by Belmoral Mines Ltd in 1974, which carried out geological mapping and geochemical sampling before dropping the option. Con-Am Resources Ltd subsequently acquired the option and carried out geological mapping and EM surveying in 1976. In 1977 Con Am staked Bang cl 1-8 (YA8768) and Whiz cl 1-14 (YA19120), carried out road building, completed underground rehabilitation and sampling and drilled 7 holes (695.6 m).

In 1982, the claims were transferred to Berglynn Resources Ltd which carried out prospecting and sampling the following year. Berglynn surrounded the occurrence with Pop cl 15-104 (YA81468) in Mar/84 and carried out geological mapping and geochemical soil sampling and staked Pop cl 101 fr-116 fr (YA93378) to the north during 1984 and 1985. Walhalla Exploration Ltd staked Tech cl 1-18 (YA82362) contiguously to the northeast in Jun/84 and carried out EM geophysical surveying and staked Tech cl 19-21 (YA86013) in Oct/84. The Tech claims were transferred to Berglynn Resources in 1986, which carried out road construction, trenching, mapping and adit rehabilitation on their adjoining Pop claims.

Skukum Ventures Inc and Berglynn formed a joint venture to consolidate their holdings in the area and carried out geophysical surveying and drilled three holes (818.1 m) in 1987. Skukum Ventures was renamed Skukum Gold Inc in Mar/88 and Berglynn changed its name to Arkona Resources Inc in Mar/92. In 1994 Arkona formed a new joint venture with No. 276 Taurus Ventures Ltd, a private B.C. company, allowing it to increase its interest in the property and contiguous claims.

In 1995 the property was optioned to Omni Resources Inc and in Sep/96 Omni drilled one hole (887.6 m). Omni and Arkona carried out detailed geological mapping, contour soil sampling and prospecting in 1998. By 1999 Omni had earned a 60% interest in the property and purchased Taurus Ventures 10% interest, subsequent to Arkona transferring 100% ownership of the property to Omni on July 23/99.

In Nov/2000 Omni amalgamated with Trumpeter Yukon Gold Inc to form Tagish Lake Gold Corporation.

Capsule Geology

Mineralization occurs in lenses of quartz and barite within a 300 m long , 2.1 m wide shear zone in granite and mid-Cretaceous rusty weathering, blue-grey andesite porphyry flows and breccias (Hart, 1990) that is adjacent to a rhyolite dyke of the early Eocene Mount Skukum Volcanic Complex along most of its length. The shear zone is poorly exposed at surface and has weathered to a grey gangue containing red and yellow streaks and boulders of massive sulphide. The zone has been explored on surface for a length of about 30 m, where it strikes 050° and dips 75° southwest. Mineralization consists of stibnite with lesser amounts of pyrite and sphalerite and traces of realgar, orpiment, galena and tetrahedrite in a gangue of quartz and minor barite.

The showing has been explored with three adits. No. 1 was driven northwest on the vein for 158 m, at an elevation of 1,603 m and was locally well mineralized in the centre. No. 2 was collared 82.3 m to the southeast at the same elevation and was driven 41 m on a poorly mineralized vein. No. 3 was 46 m lower in elevation and consisted of 137 m of cross-cut and 94 m of poorly mineralized vein.

Grades announced by Yukon Antimony included 4.8% Sb, 0.6% Pb and 30.9 g/t Ag over an average width of 1.5 m for a length of 107 m in No. 1 adit. Probable reserves of 20 866 tonnes grading 3.6% Sb across an average width of 1.95 m were calculated in 1966. A 331 kg selected bulk sample from a surface pit tested in 1984 by the Mineral Processing Division, Department of Mines and Technical Surveys, assayed 11.21% Sb, 0.27% Zn, 0.024% Pb, 0.004% Cu, 0.12% Ni, 0.81% Fe, 5.64% S, 0.34 g/t Au, 1.02 g/t Ag and 73.7% insolubles. Single stage flotation produced a concentrate grading 60.7% Sb with a recovery of 92.8%.

In 1974, Belmoral estimated probable and possible reserves at 127,007 tonnes grading 4% Sb. The 1985 and later work was directed toward gold the gold potential of the occurrence. A few widely scattered soil values up to 1,500 ppb Au were obtained but assays from rocks and drill core were generally low.

Work History

Date	Work Type	Comment
12/31/1998	Geology	
12/31/1998	Geochemistry	Contour sampling.
12/31/1998	Other	
12/31/1996	Drilling	One hole, 887.6 m.
12/31/1987	Drilling	Three holes, 818.1 m.
12/31/1987	Ground Geophysics	Also VLF survey.
12/31/1986	Geology	
12/31/1986	Development, Surface	
12/31/1986	Trenching	
12/31/1985	Geology	
12/31/1983	Other	
12/31/1977	Geochemistry	Collected samples while rehabilitating underground workings.
12/31/1977	Drilling	Seven holes, 584 m.
12/31/1977	Development, Surface	
12/31/1977	Development, Underground	
12/31/1976	Geology	
12/31/1976	Ground Geophysics	
12/31/1974	Geology	
12/31/1974	Geochemistry	Also rock sampling.
12/31/1966	Drilling	Unknown number of holes 566.9 m, some collared from underground. Completed 1965-66.
12/31/1964	Geology	
12/31/1964	Development, Underground	Dug 3 adits totaling 431.2 m.
12/31/1964	Trenching	
12/31/1951	Development, Underground	Dug a 27 m adit.
12/31/1940	Trenching	
12/31/1915	Trenching	
12/31/1915	Development, Underground	Dug a 30.5 m adit.
12/13/1986	Development, Underground	
12/13/1984	Geochemistry	Further sampling.
12/13/1984	Ground Geophysics	
12/13/1984	Geology	
12/13/1983	Geochemistry	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095183	2009	Skukum Project Exploration Report for 2009 Geochemical and Geophysical Work Done on the Following Mineral Claims Char,Chief,Ci,Glee,Kuku,Lb,Mil,Mom,Omni,Pop,Raca,Sten	Rock - Geochemistry, IP - Ground Geophysics, Resistivity - Ground Geophysics		
094337	2002	Geological Structure and Alteration Study of the Pop,Mom,Chief,Glee,Tech,Berg,Sten,Mil Claims	Detailed Bedrock Mapping - Geology, Petrographic - Lab Work/Physical Studies, Process/Interpret - Pre-existing Data		
094028	1998	Geological and Geochemical Report on the Goddell/Carbon Hill Property (Mom,Pop,Berg,Sten,Tech,Mil and MB Claims)	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other, Mechanical - Trenching		
093631	1996	Diamond Drilling Assessment Report on the Pop 10 and 34 Mineral Claims	Diamond - Drilling, Rock - Geochemistry	3	1397.81
093401	1999	Report on the Geology, Geophysics, Trenching and Diamond Drilling	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics	16	4150

062701	1900	of the Pop Claims	Detailed Bedrock Mapping - Geology, LHM - Ground Geophysics, Mechanical - Trenching	10	7133
062286	1987	Summary Report on the Wheaton Gold Property	Research/Summarize - Pre-existing Data		
091931	1986	Geology and Geochemistry Adit Rehabilitation and Sampling, Backhoe Trenching and Sampling	Rehabilitation - Development, Underground, Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Backhoe - Trenching		
091820	1985	Soil Geochemical Survey on the Pop 15-70 and Tech 1-40 Mineral Claims	Orthophoto - Airphotography, Soil - Geochemistry		
091473	1983	Geochemical Report on the Pop Claim Group	Rock - Geochemistry		
061492	1976	Report on the Pop 1-14 Mineral Claims	Property Evaluation - Other, Data Compilation - Pre-existing Data		
061735	1975	Watson Coal Prospects, Report 1	Property Evaluation - Other, Data Compilation - Pre-existing Data		
061183	1974	Report on the Pop 1-14 Mineral Claims	Property Evaluation - Other, Research/Summarize - Pre-existing Data		
061143	1974	Addendum Report Becker-Cochrane Antimony Deposit	Data Compilation - Pre-existing Data, Process/Interpret - Pre-existing Data		
018875	1964	[Engineering Evaluation Report on the Lum Claims]	Rock - Geochemistry, Bulk Sample - Lab Work/Physical Studies, Hand - Trenching		
092071	1964	Carbon Hill Antimony Deposits,Wheaton District of Yukon Antimony Corporation Ltd (N.P.L)	Property Evaluation - Other		
092050	1940	[Preliminary Account of the Present-Work of the Wheaton River Antimony Deposits]	Tunnelling - Development, Underground, Hand - Trenching		

Related References					
Number	Title	Page(s)	Reference Type	Document Type	
ARMC016239	Geological map - No.1 & No. 2 adits - Becker-Cochran deposit		Property File Collection	Geoscience Map (Geological - Bedrock)	
ARMC016242	Geological map - No.1 adits and No. 1 pit - Becker-Cochran deposit		Property File Collection	Geoscience Map (Geological - Bedrock)	
ARMC016240	Geological map - No.3 adits - Becker-Cochran deposit		Property File Collection	Geoscience Map (Geological - Bedrock)	
ARMC016241	Geological map - Upper trenches - Becker-Cochran deposit		Property File Collection	Geoscience Map (Geological - Bedrock)	
ARMC014204	Sketch of Mac. No. 1 antimony showing (Becker-Cochrane) - Carbon Hill (E. side)		Property File Collection	Geoscience Map (General)	
ARMC016243	DDH plan map - Becker-Cochran deposit		Property File Collection	Geoscience Map (General)	
ARMC016244	DDH plan map - Becker-Cochran deposit		Property File Collection	Geoscience Map (General)	
ARMC016425	DDH plan map - Becker-Cochran deposit		Property File Collection	Geoscience Map (General)	
ARMC005307	Petrology and mineralogy report of the Yukon Sb, stibnite deposit		Property File Collection	Report	
ARMC005296	Notes Re: P.A. Cox's antimony		Property File Collection	Miscellaneous Company Documents	
ARMC005297	Notes Re: Becker Cochrane - Pop mineral claims		Property File Collection	Miscellaneous Company Documents	
ARMC005298	Correspondence Re: Grizzly-Dorothy-Frankie Mcs - Old Becker/Cochrane stibnite property		Property File Collection	Miscellaneous Company Documents	
ARMC005299	Property Information Form - Covering the location of Becker Cochrane-Porter claim groups		Property File Collection	News Release	
ARMC005300	Memorandum Re: Cox Antimony prospect - Becker Creek		Property File Collection	Miscellaneous Company Documents	
ARMC005301	Claim map showing Becker Creek, Antimony Creek, and Carbon Hill		Property File Collection	Geoscience Map (General)	
ARMC005302	Plan map No. 2 - Cox Sb Property - Old Becker-Cochrane Group		Property File Collection	Geoscience Map (General)	
ARMC005303	Correspondence Re: Antimony showing in the Wheaton district		Property File Collection	Miscellaneous Company Documents	
ARMC005304	Preliminary report on the Cox antimony property, Becker Creek		Property File Collection	Report	
1990-4(G)	Geology of Whitehorse, Alligator Lake, Fenwick Creek Carcross and Part of Robinson Map Areas (105D/11, 6, 3, 2 & 7)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)	

Resource/Reserve									
Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off

1974	BECKER-COCHRAN - TOTAL RESERVES (UNDERGROUND)	Historical Estimate	antimony	4 %	127,007		No	No	Unknown
This figure was reported as probable and possible ore reserve. Original report was published as private company report. Does not meet National Instrument 43-101 standards.; Assessment Report #091820 by R.A. Doherty, p. 4. Also Canadian Mines Handbook 1976-77, p. 84, and Mineral Industry Report 1974, p. 147-148.									
1966	BECKER-COCHRAN - TOTAL RESERVES (UNDERGROUND)	Historical Estimate	antimony	3.09 %	58,968		No	No	Unknown
These figures are only estimates and do not meet National Instrument 43-101 standards. Provided for historical value only.; Canadian Mines Handbook 1967-68, p. 341. Not Defined Mineral Reserve = Probable Reserve, Not Defined Mineral Reserve = Possible Reserve									
1966	BECKER-COCHRAN - TOTAL RESERVES (UNDERGROUND)	Historical Estimate	antimony	3.59 %	20,865		No	No	Unknown
These figures are only estimates and do not meet National Instrument 43-101 standards. Provided for historical value only.; Canadian Mines Handbook 1967-68, p. 341. Not Defined Mineral Reserve = Probable Reserve, Not Defined Mineral Resource = Possible Reserve									
1965	BECKER-COCHRAN - TOTAL RESERVES (UNDERGROUND)	Historical Estimate	antimony	5 %	317,518		No	No	Unknown
This appears to be a ballpark estimate based on rough measurements obtained from surface and underground development. Assay value is only estimate based on exploration and bulk sample tests.; Assessment Report #092077 by R.G. Hawley, p. 15.									