



Occurrence Details

Occurrence Number: 115J 027

Occurrence Name: Bomber

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: lead, silver, zinc

Secondary Commodities: bismuth, copper, gold

Aliases: Airport, Casino Property, Helicopter

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

Location(s): 62°43'13" N - -138°49'14" W

NTS Mapsheet(s): 115J10

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Probably first staked as Helicopter cl (4352) in Oct/43, by J. Meloy although silver-lead mineralization has been known to occur in the area since the late 1920's. Bomber cl 1-8 (56979) and Airport cl 1-8 (56983) were added in Aug/47 by J. Meloy and A. Brown and were optioned in 1948 to Noranda Mines Ltd, which explored by hand trenching, and in 1963 to a joint venture between Rio Tinto Canadian Exploration Ltd and Yukon Consolidated Gold Corporation Ltd, which bulldozer trenched.

The claims were sold in Aug/64 to L.I. Proctor, who added Cat cl 1-70 (92201) in Jul/65 and formed a new company, Casino Silver Mines Ltd (formerly Beta Mining Corporation Ltd), to develop the property. Casino conducted bulldozer trenching in 1965 and shipped 44 tonnes of cobbled ore to Trail, B.C. Between late 1965 and Oct/67, the Bomber vein was explored by a 366 m adit, additional trenching, geochem, mag and EM surveys and 1 440.8 m of diamond drilling. The company added Joe cl 1-88 (98380) in Jul/66. Control of Casino Silver Mines was acquired by the Brynelsen Group in late 1967 and transferred to Brameda Resources Ltd in 1969 and to Teck Corporation in 1979. Six key claims were leased from 1976 to 1978 by Silgold Mines Ltd, and subsequently by PJJ Mining Ltd. Recent production of hand-cobbled ore (Bomber vein) consists of 35.3 tonnes in 1978, 89.6 tonnes in 1979 and 202.9 tonnes in 1980, which necessitated 49 m of drifting, 55 m of raise and extensive surface trenching.

Casino Silver Mines carried out a \$400 000 diamond drill program in 1992 to evaluate the adjoining Casino porphyry copper-gold deposit (Minfile Occurrence #115J 028). Fringe claims staked by Archer, Cathro & Associates (1981) Ltd between Aug and Sep/92 include (to the east) Dip 1-81 cl (YB36981). In Dec/92 Pacific Sentinel Gold Corp acquired Casino Silver Mines Ltd as a wholly owned subsidiary, thus obtaining a 100% interest in the property subject only to a 5 % net profits interest to Archer Cathro. In Jan/94 Archer, Cathro added K cl 1-20 (YB46645) to west boundary of Dip claims. In Mar/94 the Dip, Cat, and K claims were transferred to Pacific Sentinel Gold Corp.

In Nov/97 Pacific Sentinel merged with Consolidated North Coast Industries to form Great Basin Gold Ltd. In May/2000 Great Basin optioned 55 claims (Casino "B" claims) located to the northwest and adjoining the Ana claims to Wildrose Resources Ltd. As part of the agreement Wildrose agreed to assume responsibility for filing assessment work on 83 additional claims (Casino "A" claims) a number of which cover this occurrence.

In Jul/2002 Great Basin optioned the Casino deposit to CRS Copper Resources Corporation, a private British Columbia company focused on acquisition, exploration and development of advanced stage copper properties. The agreement included the Casino "A" claim group. First Trimark Ventures Inc subsequently acquired CRS in May/2003 before changing its name to Lumina Copper Corporation. A plan of arrangement to restructure Lumina Copper Corporation into four separate companies was completed and announced in May/2005. Lumina Resources Corporation, which began trading on the Toronto Stock Exchange in May 2005, assumed operational control of the Casino Project.

In Sep/2006 Western Copper Corporation acquired Lumina Resources Ltd and its option agreement covering the Casino property. Western Copper initiated a pre-feasibility study of the property in Jul/2007. In Aug/2007 Western Copper purchased Great Basin Gold's interests in the Casino property for \$1 000 000.00 cash thus consolidating 100% control of the property with Western Copper. This agreement did not cover the Casino "B" claims which remained part of the adjoining Canadian Creek property (Minfile Occurrences #115J 101, 036 & 035). During 2007 Western Copper ran carried out soil sampling and VLF, total magnetic field and limited horizontal loop electromagnetic geophysical surveys over the Bomber and Helicopter veins to identify additional exploration targets and possible extensions of the vein shears.

Western Copper completed a pre-feasibility study, refurbished the camp facilities, drilled 3 diamond drill holes (1 163 m) and continued collecting baseline environmental studies in 2008. The majority of this work was carried out on the adjoining Casino deposit.

In 2009, Western Copper completed a Quantec Titan 24 deep-penetration geophysical survey over the Casino deposit in order to identify zones of potential mineralization outside the area of currently defined mineralization. The geophysics program was followed-up with 39 diamond drill holes (10 850 m), which included infill holes designed to upgrade the resource and holes targeting anomalies outlined by the Quantec Titan geophysical survey.

During the last thirty years, the majority of exploration work on the Casino property has been focused in and around the adjoining porphyry deposit. Assessment requirements for this occurrence has generally been fulfilled through the grouping of claims covering this occurrence with those claims covering the Casino deposit i.e. work carried out on the Casino deposit has been used to keep the claims covering this occurrence in good standing.

Capsule Geology

The occurrence is located approximately 2 km south of the Casino deposit (Minfile Occurrence 115J 028), one of the largest, highest grade porphyry deposits in Canada. The region is located within the Dawson Range, a west-central portion of the Yukon-Tanana terrane. The Yukon-Tanana terrane is comprised dominantly of metamorphic rocks inferred to be Devonian to Mississippian in age that has been intruded by numerous Mesozoic granitic bodies and plutons hosting copper, molybdenum and gold mineralization.

This occurrence consists of two main showings; the Bomber (occurrence "A") and the Helicopter (occurrence "B"). The majority of work has been carried out on the Bomber showing. Earlier versions of Yukon Minfile and Gordey's 1999 and 2003 Yukon geological compilation maps showed both occurrences located at the contact between the mid-Cretaceous Dawson Range batholith and a younger Late Cretaceous intrusion. Review of early assessment records and a site visit in the mid-1990's by Steve Johnson who was employed by the Yukon Geoscience Office confirms that both occurrences are located well within the mid- Cretaceous Dawson Range batholith.

Mineralization at the Bomber showing occurs in a series of four subparallel, northwest-trending shears that dip steeply southwest and cut weakly altered Dawson Range batholith granodiorite. It consists of galena with sphalerite, pyrite, and minor chalcopyrite in a quartz-barite gangue. Silver-lead ratios vary from 137 g/t silver:1% lead to 17 g/t silver:1% lead and are highest at surface. Quartz, sphalerite and pyrite increase with depth.

Chip sampling in the adit, some 46 m below surface, showed five ore shoots 9 to 18 m long, comprising an aggregate length of 78 m of the 137 m vein in the drift. These ore shoots averaged 702.8 g/t silver, 12.2% lead, and 4.4% zinc across an average width of 0.7 m. The best shoot averaged 1741.7 g/t silver, 30.4% lead and 7.7% zinc across 0.5 m for a 14 m length. A total of 123.2 tonnes were hand cobbled from a stope on this ore-shoot, with an average grade of 1 745.0 g/t silver and 27.8% lead. The balance of the shipments were cobbled from development ore and from surface trenches.

Average grade of the 371.7 tonnes shipped to the smelter between 1965 and 1980 was 3 689.0 g/t silver, 17.1 g/t gold, 48.3% lead, and about 5.0% zinc, 1.5% copper and 0.02% bismuth.

The Helicopter showing is located approximately 1 150m south west of the Bomber showing. It consists of 2 subparallel, northwest trending silver-lead veins that have been exposed by bulldozer trenching. Mineralization is narrow with widths ranging from 7.6 cm to 1 m and consists of massive galena in quartz as well as some disseminated sulphides in altered, deep-weathered granodiorite.

Casino Silver Mines reported assays ranging from 75.9 to 1 322 g/t silver and 5.6 to 79.8 % lead.

The majority of work carried out on the Casino property has been focused on the actual Casino deposit located to the north. Soil sampling and geophysics was carried out in 2007 and further work is planned to follow up the results of these surveys.

References

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CASINO SILVER MINES LTD, 1965. Assessment Report *#019098 by S.S. Szetu.

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GORDEY, S.P. AND MAKEPEACE, A.J. 2003: Yukon Digital Geology, version 2.0, S.P. Gordey and A.J. Makepeace (comp); Geological Survey of Canada, Open file 1749 and Yukon Geological Survey, Open file 2003-9 (D).

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LUMINA RESOURCES CORPORATION, News Release, 18 May/2005.

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WESTERN COPPER CORPORATION, News Release. 18 Sep/2006, 18 Jul/2007,10 Aug/2007, 24 June 2008; 8 Sep/2009, 18 Nov 2009.

WESTERN COPPER CORPORATION, Dec/2009. Web Site: www.westerncoppercorp.com.

WESTERN MINER, Dec/48, p. 153.

Work History

Date	Work Type	Comment
12/31/2007	Geochemistry	Grid based.
12/31/2007	Ground Geophysics	Total Magnetic Field, also EM survey .
12/31/1980	Lab Work/Physical Studies	Shipped 202.9 tonnes.
12/31/1980	Development, Underground	Dug 104 m.
12/31/1980	Trenching	

12/31/1979	Lab Work/Physical Studies	Shipped 89.6 tonnes.
12/31/1978	Lab Work/Physical Studies	Shipped 35.3 tonnes.
12/31/1966	Drilling	Eighteen holes, 1,440.8 m.
12/31/1966	Ground Geophysics	Also EM survey .
12/31/1965	Lab Work/Physical Studies	Shipped 44 tonnes.
12/31/1965	Geochemistry	
12/31/1965	Trenching	
12/31/1965	Development, Underground	Approximate length 366 m.
12/31/1963	Trenching	
12/31/1948	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095057	2008	Summary Report of the 2008 Aster Image Program on the Canadian Creek Property	Infrared - Remote Sensing		
095199	2008	2008 Assessment Report for the Casino Property	Air Strip - Development, Surface, All Weather Road - Development, Surface, Environmental Clean-up - Development, Surface, Reclamation - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry, Column Leach Test - Lab Work/Physical Studies	3	1163
095050	2007	2007 Assessment Report for the Casino Property	Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
093190	1993	1993 Summary Report-Casino Property	All Weather Road - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Heavy Mineral Concentrate - Lab Work/Physical Studies, Biophysical Mapping - Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Rock Mechanics - Studies, Mechanical - Trenching	127	50316
019767	1970	Geophysical Report on Airborne Magnetic and Airborne Radiometric Surveys	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
019100	1968	Geology and Geochemical Survey-Casino-Canadian Creek Property	Silt - Geochemistry, Soil - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology, Property Evaluation - Other, Prospecting - Other		
060740	1968	Geology and Geochemical Survey-Casino-Canadian Creek Property	Soil - Geochemistry, Bedrock Mapping - Geology		
017450	1966	Report on Geochemical Survey-Dip Creek Watershed	Silt - Geochemistry, Soil - Geochemistry		
019099	1966	Report on the Geophysical Survey on the Cental Part of the Property-Casino Creek Area	EM - Ground Geophysics		
019098	1965	Geophysical Report-Cat Claims-Casino Creek Area	Magnetic - Airborne Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC006913	Topographic map - Casino		Property File Collection	Geoscience Map (General)
ARMC006914	Correspondence Re: Casino copper-gold porphyry deposit		Property File Collection	Miscellaneous Company Documents
ARMC006915	News releases - Results from first four drill holes - Casino		Property File Collection	News Release
ARMC006916	Location Map - Big Creek porphyry copper belt - Big Creek Resources Ltd. and various figures and reports		Property File Collection	Report
ARMC006917	Drill hole records - Casino project		Property File Collection	Drill Logs
ARMC006918	Plan map of diamond drilling and provisional geology - Casino Creek area		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC006919	Annual report 1968 - Casino silver		Property File Collection	Report
ARMC004726	Graphs - Comparison of Casino Silver's geochemical profiles		Property File Collection	Miscellaneous Company Documents
ARMC004712	Correspondence Re: Bill Sirola's review of Trans Columbia data		Property File Collection	Miscellaneous Company Documents
ARMC004713	Certificate of Analysis - A8617971-001-A - Casino		Property File Collection	Miscellaneous Company Documents
ARMC004714	Certificate of Analysis - A8617970-001-A - Casino		Property File Collection	Miscellaneous Company Documents
ARMC004715	Certificate of Analysis - A8617972-001-A - Casino		Property File Collection	Miscellaneous Company Documents
ARMC004716	Certificate of Analysis - A8614402-001-A - Casino		Property File Collection	Miscellaneous Company Documents
ARMC004717	Certificate of Analysis - A8819595 - Casino		Property File Collection	Miscellaneous Company Documents

ARMC004718	Certificate of Analysis - A8614746-001-A - Casino	Property File Collection	Miscellaneous Company Documents
ARMC004719	Certificate of Analysis - A8614724-001-A - Casino	Property File Collection	Miscellaneous Company Documents
ARMC004720	Certificate of Analysis - A8614745-001-A - Casino	Property File Collection	Miscellaneous Company Documents
ARMC004721	Certificate of Analysis - A8614725-001-A - Casino	Property File Collection	Miscellaneous Company Documents
ARMC004722	Correspondence Re: Trans Columbia Property, Casino area	Property File Collection	Miscellaneous Company Documents
ARMC004723	Correspondence Re: An assessment of Trans Columbia Exploration's property in the Casino area	Property File Collection	Miscellaneous Company Documents
ARMC004724	Geochemical map of molybdenum - ppm - Casino	Property File Collection	Geochemical Map
ARMC004725	Geochemical map of copper - ppm -	Property File Collection	Geochemical Map
ARMC004728	Property map II of the Dawson Range	Property File Collection	Geoscience Map (General)
ARMC004729	Aeromagnetic Map - Casino area, Y.T.	Property File Collection	Geophysical Map
ARMC004733	Correspondence Re: Optioning the Trans Columbia claims	Property File Collection	Miscellaneous Company Documents
ARMC004730	Correspondence Re: Trans-Columbia Explorations properties, Casino area	Property File Collection	Miscellaneous Company Documents
ARMC004731	Correspondence Re: Trans Columbia Explorations Ltd., Casino area	Property File Collection	Miscellaneous Company Documents
ARMC004732	Notes on Trans Columbia	Property File Collection	Miscellaneous Company Documents
ARMC008733	Fourth annual report - Year ending December 31st, 1969 -	Property File Collection	Report
ARMC012481	Vertical section I - Trench "C" - Casino - Fig. 3	Property File Collection	Geoscience Map (General)
ARMC012482	Vertical section II - Casino - Fig. 4	Property File Collection	Geoscience Map (General)
ARMC012483	Vertical section III - Casino - Fig. 5	Property File Collection	Geoscience Map (General)
ARMC012484	Plan map of diamond drilling and provisional geology - Casino	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012401	Preliminary air photo study of Dip Creek area	Property File Collection	Geoscience Map (General)
ARMC012402	Report on Dip Creek area, May 29 to June 27, 1963	Property File Collection	Report
ARMC012486	Maps, special release report and report to the shareholders on the Casino and Canadian Creek property, Y.T.	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012489	Some remarks concerning the geology of the "Canadian Basin"	Property File Collection	Miscellaneous Company Documents
ARMC012479	Sample location map - Casino geochemical orientation survey - Fig. 1	Property File Collection	Geoscience Map (General)
ARMC016557	Geology map - 115J/10 - Colorado Creek	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012480	Comparison of anomaly contrasts for total and cold-extractable Cu on stream sediments - Casino - Fig. 2	Property File Collection	Miscellaneous Company Documents
ARMC012488	Dispersion of some minor elements in the vicinity of Casino orebody	Property File Collection	Report
ARMC012478	Location plan - Casino area claims - 1969	Property File Collection	Geoscience Map (General)
ARMC016558	Geochemical values total extraction map - 115J/10 - Colorado Creek	Property File Collection	Geochemical Map
ARMC012487	Geology and rotary drilling at the Casino deposit	Property File Collection	Report
ARMC012485	Department of mines map - Klotassin River with hand drawn geology markings - Casino	Property File Collection	Geoscience Map (General)
ARMC007550	Map - Casino Creek silver-lead district	Property File Collection	Geoscience Map (General)