

Occurrence Details

Occurrence Number: 115J 101 Occurrence Name: Canadian Creek Occurrence Type: Hard-rock Status: Prospect Date printed: 8/1/2025 11:58:32 PM

General Information

Secondary Commodities: copper, gold, molybdenum Aliases: Ana, Aztec, Casino B Claims Deposit Type(s): Porphyry Cu-Mo-Au Location(s): 62°44'13" N - -138°54'29" W NTS Mapsheet(s): 115J10 Location Comments: 1 Kilometres Hand Samples Available: No Last Reviewed:

Capsule

Work History

Staked as Aztec cl 1-151 (Y37004) in 1969 by Trans Columbia Explorations Ltd, which conducted airborne mag and spectrometer surveys and grid soil geochemical surveys in 1970.

Restaked as Ana cl 1-56 (YA86735) in May/1985 by Nordac Mining Corporation. Shortly there after the company formed a joint venture with Permian Resources Ltd and carried out a small grid based geochemical survey later in the year. The joint venture agreement was allowed to lapse and in Jun/1986 Nordac carried out further grid based soil sampling.

Eastfield Resources Ltd optioned the Ana claims in Mar/1993 subject to a 5% net profits interest in favor of Pacific Sentinel Gold Corp (which acquired Nordac's interest through the purchase of the neighboring Casino property Minfile Occurrence #1153 028). Breckenridge Resources Ltd purchased a 20% interest in the Ana claims from Eastfield in Apr/93, with an option to acquire an additional 50% on completion of a 4 year exploration program. Eastfield Resources conducted a program of geological mapping, geochemical sampling and geophysical surveying (ground magnetometer and induced polarization surveys) and drilled six diamond drill holes totaling 800 m on the Ana claims in 1993.

Archer, Cathro & Associates (1981) Ltd. Staked the J cl 1-40 (YB46605) on the northern boundary of the Koffee and Anna claims in Jan/1994.

In Jun/1996 Eastfield consolidated the Ana and adjoining Koffee, Ice, Aztec and Maya claim blocks into the Canadian Creek property. Following consolidation Eastfield entered into an option agreement with Alexis Resources Ltd whereby Alexis was granted the right to earn an undivided 51% interest in the property by incurring \$1,500,000 in expenditures, paying \$250,000 in option payments and issuing 200,000 shares before Jun/2000. In 1996 Alexis completed geophysical and geochemical surveys and extensive excavator trenching on the Koffee and Ana claims. In May/1997 Eastfield reorganized into two companies one of which is named Wildrose Resources Ltd. The Ana, Koffee, Maya, Aztec and Ice claims were transferred to Wildrose. In 1997 Wildrose and joint venture Partner Alexis Resources conducted a program of road-building, drill-pad construction and prospecting on the Canadian Creek property. Breckenridge's working interest in the Ana claims.

In 1999 Wildrose reclaimed numerous road cuts, collected various rock and soil samples and retrieved and assayed various samples left behind in 1997 on the Ana claims. In May/2000 Wildrose optioned 55 claims (Casino "B" claims) located to the east which adjoin the Ana claims from Great Basin Gold Ltd (Pacific Sentinel Gold's new name). Wildrose also undertook responsibility to file assessment work on the remaining claims which cover the actual Casino deposit (Minfile Occurrence #115J 028). In 2000 Wildrose drilled 2 diamond drill holes (300.23 m) approximately 1.5 km east and southeast of the occurrence location. Although Wildrose returned to the Canadian Creek property in 2001 only cursory exploration work was carried out in the vicinity of this occurrence.

In Dec/2002 Wildrose optioned a 60% participating interest in its Canadian Creek property, including the Casino "B" claims, to Canley Developments Inc. In Jul/2003 Canley Developments changed its name to Sargold Resources Corporation and in Sep/2003 the company carried out a detailed soil sampling program over the central portion of the Casino "B" claims. In Feb/2004, Sargold terminated its option and returned the claims to Wildrose.

In Feb/2005 Wildrose optioned a 60% interest in the Canadian Creek property to Veraz Petroleum Ltd for cash, shares and certain work commitments. In the summer of 2006 the company extended the Casino B grid, carried out limited soil sampling and surveyed the location of all known drill holes and other notable features. In Oct/2006 Wildrose re-organized such that, Wildrose retained ownership of the Spanish Mountain gold project in British Columbia and transferred all their other exploration properties including Canadian Creek to a new company, Cariboo Rose Resources Ltd. Veraz Petroleum retained their option.

In Jul/2007 Veraz Petroleum funded a 5 hole (879 m) diamond drill program on the eastern end of the Casino B claims. In Feb/2008 Veraz Petroleum terminated its option and returned the property to Cariboo Rose. In 2008 Cariboo Rose carried out a remote sensing "Aster image" program of the entire property.

In Jun/2009 Cariboo Resources optioned a 60% interest in the Canadian Creek property to Alder Resources Ltd for cash, shares and certain work commitments. Alder Resources immediately staked Kana cl 1-35 (YC99879) and fractional claims 36-45 (YC99914) on the northern boundary of the Ana and Koffee claim blocks. The claims were registered to Eastfield Resources Ltd the underlying owner of the Canadian Creek property. During the summer of 2009 Alder enlarged the existing soil grid to cover the entire property and carried out infill soil sampling. In the fall of 2009 Alder drilled 10 diamond drill holes (1 425 m) on the property

Capsule Geology

The region around the occurrence largely escaped Pleistocene glaciation. The result is that there is less than 1% outcrop by area over much of the region and weathered rocks commonly extend to depths of greater than 75 m. Johnston (1995) used data acquired from an airborne multiparameter geophysical survey conducted in 1993 and 1994 to improve the existing geological knowledge of the region.

Johnston's work indicates that the area is underlain by Yukon Tanana Terrane rocks, consisting of Devonian to Mississippian metavolcanic and metaigneous rocks belonging to the Wolverine Creek Metamorphic Suite. The metamorphic rocks form a synform which is cored by intermediate rocks of the mid-Cretaceous Dawson Range batholith. The batholith consists of mafic, intermediate and felsic phases. The mafic and intermediate phases are sheet or sill-like bodies that are concordant with foliation in the `pendant' and in adjacent metamorphic wall rocks. The felsic phase forms discordant plugs that intrude the more mafic phases of the batholith and its wall rocks.

The Dawson Range batholith is in turn intruded by the Casino Plutonic Suite which is represented by fine- to medium-grained leucocratic granite, quartz monzonite and alaskite with associated aplite phases. The Casino Plutonic Suite is composed of stocks up to 18 km in diameter and is only exposed in the Colorado Creek (NTS 115 J/9) and Selwyn River (NTS 115 J/10) map areas. The Casino Plutonic Suite was originally thought to be Late Cretaceous (70 Ma) but work by Selby et al., (1999) indicates that although the Casino Plutonic Suite intrudes the Dawson Range Batholith, it's age is indistinguishable (104.2 +/- 0.5 Ma, U-Pb zircon). Late Cretaceous igneous activity produced a northwest-trending belt of small stocks, one of which, the Patton porphyry intrudes the Casino Plutonic Suite rocks, producing the copper-gold-molybdenum mineralization present at the neighboring Casino deposit (Minfile Occurrence #115) 028).

At the occurrence site a tournalinized heterolithic breccia pipe belonging to the Casino Plutonic Suite has been intruded along the contact between Devonian-Mississippian gneiss and Mid-Cretaceous Dawson Range Batholith. Trans Columbia located a copper-molybdenum anomaly west of the breccia, while Nordac's soil sampling showed that the area around the breccia carries anomalous values of up to 395 ppb gold.

The 1993 exploration program outlined a large multi-element soil geochemical anomaly which is coincident with a magnetic high and a chargeability anomaly. Four of the six 1993 diamond drill holes collared on the Ana claims intersected intervals of intrusive breccia up to 44 metres in thickness associated with anomalous concentrations of copper and gold. A petrographic study of samples from this drilling suggests that alteration style is increasing in intensity and potassium content towards the east. Hole 93-06, the most eastward of the 1993 holes, intersected Patton Porphyry through its entire length. The combination of intrusive breccia in proximity to Patton Porphyry is analogous to the geological setting at the adjoining Casino deposit (Minfile Occurrence #1153 028). Wildrose theorized that the mineralizing system present on the adjoining Casino property extends onto the Canadian Creek property, although large areas of the leached cap may have been eroded away. The J claims were staked to protect any potential mineralization uncovered on the Ana and adjoining Koffee claims and to provide an area for storage and infrastructure if the Casino deposit entered into production.

The 1996 through 1998 work programs were carried out to follow up geophysical targets and delineate future drill targets. The bulk of the work was carried out on the Koffee and Ana claim blocks.

Trenching returned open ended values up to 0.9 g/t gold over 13 m.

Both 2000 drill holes appear to have intersected mid-Cretaceous Dawson Range Batholith over their entire lengths. Hole -03 intersected granodiorite while hole-10 intersected quartz diorite. The 2003 soil sampling program was conducted to expand Wildrose's soil grid east onto the Casino "B" claims (located midway between this occurrence and Minfile Occurrence #115J 028) and to follow-up both gold dominant intrusion related and porphyry copper-gold-molybdenum mineralization encountered in previously drilled drill holes. The survey outlined a robust 900 by 600 m coppergold-molybdenum soil anomaly that suggests that, while this area was formerly thought to be predominantly prospective for intrusive associated gold, it is more likely prospective for copper-goldmolybdenum mineralization similar to that found on the adjacent Casino Deposit (Minfile Occurrence #115J 028).

The 2007 diamond drilling was centered over the eastern end of the Casino "B" claims and tested a magnetic high and a copper-gold-molybdenum soil anomaly. Hole 4 returned 0.31 g/t gold (516 ppm copper and 15 ppm molybdenum) over 139.9 m including 2.96 g/t gold over 6.0 m. Holes 1, 2, 3 and 5 returned significant intersection lengths but the gold grade was approximately half (~ 0.15 g/t gold) of that returned in hole 4. The 2008 Aster Satellite survey highlighted various areas containing iron oxide and alunite alteration on the property.

The 2009 soil sampling program outlined a series gold and arsenic gold anomalies across the entire 4.0 km width of the grid. The anomalies are defined by 20 ppb gold contours and individual anomalies are up to 1.5 km in length. At a 50 ppb gold threshold the largest anomalies 1.2 km long and 300 m wide. The anomalies show strong linear trends from east-west to northeasterly. An induced polarization (IP) geophysical survey was also completed over the grid and outlined several anomalies that show the same general trend as the soil anomalies. The 2009 diamond drilling tested some of the IP and soil geochemical anomalies. The drilling appears to have been carried out on the eastern end of the Ana claims and all of the drill holes returned anomalous gold intercepts. Notable intersections include hole 6 which intersected 0.33 g/t gold over 15 m and hole 10 which intersected 0.68 g/t gold over 7.5 m including 1.10 g/t gold over 3 m.

References

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YUKON EXPLORATION 1987, p. 278-279.

Work History

Date	Work Type	Comment
12/31/2009	Drilling	Ten holes, 1,425 m. No assessment report received yet.

12/31/2009	Geochemistry	Grid based.
12/31/2008	Pre-existing Data	Aster Image program over entire property.
12/31/2007	Drilling	Five holes, 879 m. No assessment report received yet.
12/31/2003	Geochemistry	Sampling covered Casino B grid located halfway between this occurrence and Minfile Occurrence #115J 028.
12/31/2001	Other	Claims surrounding occurrence received cursory examination.
12/31/2000	Drilling	Two holes, 300.23 m. Collared 1.5 km east and southeast of occurrence.
12/31/1999	Geochemistry	
12/31/1999	Geochemistry	
12/31/1999	Development, Underground	Reclaimed road cuts.
12/31/1997	Geochemistry	Also rock sampling.
12/31/1997	Development, Surface	
12/31/1996	Geochemistry	
12/31/1996	Ground Geophysics	
12/31/1996	Trenching	
12/31/1993	Drilling	Six holes, 800 m.
12/31/1993	Geology	
12/31/1993	Geochemistry	
12/31/1993	Ground Geophysics	Also magnetic survey.
12/31/1986	Geochemistry	
12/31/1985	Geochemistry	
12/31/1970	Geochemistry	
12/31/1970	Airborne Geophysics	Also spectrometer survey.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<u>097121</u>	2017	Summary Report of the 2017 Exploration Programme on the Canadian Creek Property	Reverse Circulation - Drilling, Soil - Geochemistry, Magnetics - Ground Geophysics	24	2151.27
<u>095864</u>	2011	Soil Geochemistry, Trenching and Geophysical Surveys on the Canadian Creek Property	Soil - Geochemistry, Soil - Geochemistry, IP - Ground Geophysics, IP - Ground Geophysics, Magnetics - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other, Line Cutting - Other, Backhoe - Trenching, Backhoe - Trenching		
<u>095057</u>	2008	Summary Report of the 2008 Aster Image Program on the Canadian Creek Property	Infrared - Remote Sensing		
<u>094206</u>	1999	Report on Rock and Soil Sampling and Road Reclamation on the Canadian Creek Property (Ana, Koffee, Aztec, Maya and Ice Claims)	Environmental Clean-up - Development, Surface, Reclamation - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Petrographic - Lab Work/Physical Studies		
<u>093532</u>	1996	Report on Trenching, Road Rehabilitation and Road Construction on the Canadian Creek Property	All Weather Road - Development, Surface, Rock - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Magnetics - Ground Geophysics, Petrographic - Lab Work/Physical Studies, Line Cutting - Other, Backhoe - Trenching		
<u>093163</u>	1993	Diamond Drilling Report on the ANA Claims	All Weather Road - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Magnetics - Ground Geophysics	6	800
<u>091703</u>	1986	Report on the Geochemical Survey-Ana Property-Casino, Yukon	Soil - Geochemistry		
<u>019767</u>	1970	Geophysical Report on Airborne Magnetic and Airborne Radiometric Surveys	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
<u>061125</u>	1970	Summary Report-Casino Project-Yukon Territory-Brameda Resources Ltd.	Winter Road - Development, Surface, Diamond - Drilling, Rotary - Drilling, Drill Core - Geochemistry, Drill Cuttings - Geochemistry, Soil - Geochemistry, Petrographic - Lab Work/Physical Studies, Data Compilation - Pre-existing Data, Research/Summarize - Pre-existing Data, Pre-feasibility - Studies, Resource Estimate - Studies	44	13030.20
<u>019100</u>	1968	Geology and Geochemical Survey-Casino-Canadian Creek Property	Silt - Geochemistry, Soil - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology, Property Evaluation - Other, Prospecting - Other		
017450	1966	Report on Geochemical Survey-Dip Creek Watershed	Silt - Geochemistry, Soil - Geochemistry		

Related References

Number	Tile	Description	Defener - Tr	Designment Torres
	Title	Page(s)	Reference Type	Document Type
	Topographic map - Casino		Property File Collection	
	Correspondence Re: Casino copper-gold porphyry deposit		Property File Collection	
	News releases - Results from first four drill holes - Casino		Property File Collection	
	Location Map - Big Creek porphyry copper belt - Big Creek Resources Ltd. and various figures and reports		Property File Collection	
	Drill hole records - Casino project		Property File Collection	
	Plan map of diamond drilling and provisional geology - Casino Creek area		Property File Collection	
	Annual report 1968 - Casino silver		Property File Collection	
	Graphs - Comparison of Casino Silver's geochemical profiles		Property File Collection	. ,
	Certificate of Analysis - A8617972-001-A - Casino		Property File Collection	. ,
	Correspondence Re: Bill Sirola's review of Trans Columbia data		Property File Collection	
	Certificate of Analysis - A8617971-001-A - Casino		Property File Collection	
	Certificate of Analysis - A8617970-001-A - Casino		Property File Collection	Miscellaneous Company Documents
	Certificate of Analysis - A8614402-001-A - Casino		Property File Collection	
	Certificate of Analysis - A8819595 - Casino		Property File Collection	
	Certificate of Analysis - A8614746-001-A - Casino		Property File Collection	. ,
			Property File Collection	
	Certificate of Analysis - A8614745-001-A - Casino		Property File Collection	
	Certificate of Analysis - A8614725-001-A - Casino		Property File Collection	
	Correspondence Re: Trans Columbia Property, Casino area		Property File Collection	. ,
	Correspondence Re: An assessment of Trans Columbia Exploration's property in the Casino area		Property File Collection	. ,
			Property File Collection	
	Geochemical map of copper - ppm -		Property File Collection	
	Property map II of the Dawson Range		Property File Collection	
	Aeromagnetic Map - Casino area, Y.T. Correspondence Re: Trans-Columbia Explorations properties, Casino area		Property File Collection Property File Collection	
	Plan map of diamond drilling and provisional geology - Casino		Property File Collection	
	Preliminary air photo study of Dip Creek area		Property File Collection	
	Report on Dip Creek area, May 29 to June 27, 1963		Property File Collection	
	Maps, special release report and report to the shareholders on the Casino and Canadian Creek property, Y.T.		Property File Collection	
	Some remarks concerning the geology of the "Canadian Basin"			Miscellaneous Company Documents
	Comparison of anomaly contrasts for total and cold-extractable Cu on stream sediments - Casino - Fig. 2		Property File Collection	
	Location plan - Casino area claims - 1969			Geoscience Map (General)
	Location plan of Aztec No. 1 to 151, Squaw No. 1 to 12, Tlingits No. 1 to 12 mineral claims - Job # 373-69			Geoscience Map (General)
	Department of mines map - Klotassin River with hand drawn geology markings - Casino			Geoscience Map (General)
	Geology and rotary drilling at the Casino deposit		Property File Collection	
	Correspondence Re: Trans Columbia Explorations Ltd., Casino area		Property File Collection	Miscellaneous Company Documents
	Notes on Trans Columbia		Property File Collection	
	Correspondence Re: Optioning the Trans Columbia claims		Property File Collection	
	Fourth annual report - Year ending December 31st, 1969 -		Property File Collection	
ARMC007550	Map - Casino Creek silver-lead district		Property File Collection	Geoscience Map (General)
ARMC012481	Vertical section I - Trench "C" - Casino - Fig. 3		Property File Collection	Geoscience Map (General)
	Vertical section II - Casino - Fig. 4		Property File Collection	Geoscience Map (General)
	Vertical section III - Casino - FIg. 5		Property File Collection	Geoscience Map (General)
	Sample location map - Casino geochemical orientation survey - Fig. 1		Property File Collection	
ARMC012488	Dispersion of some minor elements in the vicinity of Casino orebody		Property File Collection	Report