



Occurrence Details

Occurrence Number: 1050 051
Occurrence Name: Cache Creek
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 8/6/2025 1:45:57 AM

General Information

Secondary Commodities: antimony, arsenic, copper, gold, mercury

Aliases: Harlan, Dall

Deposit Type(s): Plutonic Related Au, Vein Au-Quartz

Location(s): 63°12'43.84" N - -131°37'57.25" W

NTS Mapsheet(s): 105004

Location Comments: Mid point between drill holes HAR11-05, 06. GSC reported quartz-bornite veining at UTM's 367650 W, 7011945 N.

Hand Samples Available: No

Last Reviewed: Mar 20, 2014

Capsule

Work History

*In March/2014 the occurrence location was moved 2.25 km to the northwest to a position located midway between diamond drill holes HAR11-05 and 06.

In 1984 during a regional mapping program, the Geological Survey of Canada (GSC), discovered quartz-bornite veining in chert pebble conglomerate approximately 3.5 km southeast of the current occurrence location.

Staked within Cam cl 1-8 (YB81297) by G. MacIntosh in Aug/97.

Viceroy Exploration (Canada) Inc surrounded the Cam Claims with Harlan cl 1-108 (YB97936) in early Sep/97 and carried out prospecting, geological mapping and geochemical (rock and silt) sampling later in the month. In Oct/97 Viceroy added Harlan cl 109-331 (YB98408) around the existing Cam and Harlan claims. These new claims covered the GSC occurrence. The Cam claims were transferred to Viceroy in May/98 and later that year the company carried out detailed geological mapping and geochemical (rock, silt and soil) sampling.

Viceroy staked Stratus cl 1-20 (YC01166) 10 km to the southeast in Jun/98 and carried out geochemical sampling, prospecting and geological mapping in Jul/98.

Viceroy staked Floyd cl 1-12 and Pink cl 1-10 (YC01332) 18 km southeast in Jul/98.

In Mar/99, NovaGold Resources Inc acquired 100% of Viceroy's interest in these and 19 other grassroots properties in the Yukon in exchange for 3.4 million common shares. Later in 1999, NovaGold carried out a geological mapping and geochemical sampling programs on the Harlan/Cam and Pink claims groups.

In 2000 Teck Exploration Ltd and Homestake Canada Inc prospected and sampled the Harlan property during separate property visits.

In May/2003, NovaGold and Viceroy agreed to jointly form a new exploration company named Spectrum Gold Inc which would hold all of NovaGold's Yukon exploration properties, including the Harlan, and Viceroy's remaining mineral assets in Yukon and British Columbia.

In Feb/2005 Alexco Resource Corporation acquired all of the issued shares of 650399 BC Ltd, a holding company of NovaGold Canada (subsidiary company of NovaGold Resources) which held a 100% interest in Spectrum Gold. The sale covered all of NovaGold's mineral properties located in British Columbia and Yukon including the Harlan property.

In 2006 Alexco Resource Corp carried out a limited ground magnetic geophysical survey, geological mapping, rock sampling, and a limited soil sampling program on the Harlan property. At the end of 2006 the Harlan property consisted of the original 8 Cam claims and 67 remaining Harlan claims.

In Oct/2010 Golden Predator Corp surrounded the Harlan property with 530 Gef claims (claim #1 = YD73391- numbers not sequential). On January 24, 2011 Golden Predator announced that it had signed an option agreement with Alexco to acquire up to a 75% interest in the 75 remaining claims known as the Harlan property in return for incurring certain exploration expenditures. In Mar/2011 the company added Gef cl 531- 667 (claim 531 = YD135001).

During the summer of 2011 Golden Predator carried out geological mapping in the Vortex zone, the results of which were used to locate a 6 hole (2 029 m) diamond drill program. In 2012 the company flew an airborne magnetic and radiometric survey over the Vortex and West Porphyry area and collected grid based soil samples over the West Porphyry area.

On February 22, 2013 Golden Predator Corp changed its name to Americas Bullion Royalty Corp.

Capsule Geology

The stratigraphy underlying the Harlan/Cam claims is dominated by a thick, east-southeast imbricated assemblage of Middle to Upper Devonian Earn Group chert pebble conglomerate, sandstone and greywacke with lesser Ordovician to Silurian Road River Group shale and graphitic argillite. Cretaceous aged Tombstone Suite quartz-feldspar porphyritic sills and dikes were later emplaced along transpressional and normal faults across the central area of the claim group.

The original GSC occurrence (approximate location = UTM's 367650 W, 7011945 N), consists of quartz veins containing bornite and hematite which cut Earn Group conglomerate. The occurrence location is displayed on map 1050 04, in Geological Survey of Canada's Open File 1118 however it was subsequently left off updated editions of the map. C. Schultz re-located and identified the occurrence on his compilation map which accompanies assessment report # 093882. No work appears to have been undertaken at the location.

Prior to staking the original Harlan claims, Viceroy Exploration (Canada) Inc conducted a regional geochemical program focused on identifying new potential bulk tonnage intrusive related and sediment hosted gold systems. The area surrounding the Harlan property was first identified as a target based on coincident gold-arsenic-mercury-antimony anomalies from a regional scale geochemical silt sampling program and favourable stratigraphic and structural settings.

Exploration carried out to date has identified two zones of mineralization: the Vortex zone and the West Porphyry zone. The Vortex Zone consists of a northwest trending gold-bismuth-arsenic-antimony anomaly measuring 1 600 m by 700 m that averages over 500 ppb gold in soils covering a zone consisting of fine disseminated pyrite and arsenopyrite within a silicified

hydrothermal breccia. Grab samples taken within the zone have returned values up to 6.5 g/t gold. The Vortex Zone contains a 500 by 300 m core that is intensely brecciated and clay altered that averaged >1 g/t gold with peak values up to 10.4 g/t gold in soils.

The West Porphyry Zone located 4 km west of the Vortex Zone, and measuring 1 500 m by 500 m, consists of a series of east-southeast trending, steeply-southwest dipping altered quartz monzonite dykes, within which gold mineralization increases progressively towards the west. Rock chip sampling returned values up to 0.86 g/t gold over 20.8 m. Anomalous gold values to 1.26 g/t gold were returned from dykes across 2.5 square kilometers.

The property is underlain by rocks of the Selwyn Basin that consist mainly of chert-pebble conglomerates of the Devonian to Mississippian Earn Group. East-west striking thrust faults cross-cut the property placing Earn Group rocks in contact with argillites of the Road River Group. Quartz-monzonite dykes tentatively assigned to the Cretaceous Tombstone Suite are also present on the property. Mineralization at the Vortex zone consists of chaledonic quartz veining, quartz-sulphide veining and hydrothermal brecciation and silicification within the chert-pebble conglomerates over a distance of more than a kilometre before being obscured under talus cover. At least three generations of quartz and quartz-sulphide veining have been identified within the zone. The West Porphyry zone is associated with a swarm of altered quartz-monzonite dykes intruding graphitic schists of the Road River Group.

Viceroy Exploration/NovaGold Resources work programs advanced the property to the “drill ready” stage. The property visits conducted by Teck Exploration Ltd and Homestake Canada Inc in 2000 were likely undertaken as due diligence prior to either company possibly optioning the property, neither of which ultimately did. Rock and soil sampling carried out by Alexco in 2006 confirmed earlier results. The geophysical survey was completed over the Vortex zone. It highlighted a strong magnetic high that is theorized to be related to the fault contact between the Road River Group and Earn Group rocks. The intrusive sills and the variably silicified and clay altered Earn Group sediments form a moderately magnetic mass, with the high grade samples occurring along a shear structure at the edge of a break from moderate to low susceptibility. The intrusive sills could not be distinguished from sediments in the magnetic data.

Upon acquiring the Harlan property, Golden Predator renamed it the Cache Creek property. The 2011 exploration program was limited to the Vortex zone and was geared to testing outcropping hydrothermal alteration developed mainly in Earn Group siliclastic rocks intruded by altered quartz monzonite dykes. Geological mapping was used to define favourable areas.

All six of the drill holes encountered extensive intervals of hydrothermal mineralization with four of the holes (HAR11-02, 04, 05 and 06) returning significant mineralization. The best results were returned from holes 5 and 6. Drill hole 5 returned 57.0 m of 0.53 g/t gold from a depth of 3.1 m and 39.9 m of 0.49 g/t gold from a second zone starting at a depth of 315.2 m. Drill hole 6 returned 77.4 m of 0.51 g/t gold from a depth of 3.6 m, including 35.63 m of 0.77 g/t gold from a depth of 3.6 m. A second intersection in the same hole returned 16.66 m of 2.10 g/t gold from a depth of 117.3 including 4.51 m of 6.85 g/t gold. To date, mineralization is not constrained and remains open along strike and depth.

*The occurrence location marks the approximate mid-point between drill holes 5 and 6.

Golden Predator has not publicly released any results from its 2012 exploration program.

The Stratus claims (located approximately 10 km to the southeast), are underlain by fractured to locally brecciated Earn Group chert pebble conglomerate that contains abundant quartz and barite veining. Cretaceous aged north-south trending quartz monzonite dykes occur across the property and are weakly anomalous in gold (up to 50 ppb) and mercury (up to 3 630 ppb). Soil samples collected from the western part of the claim group averaged 14 ppb gold, 3.8 ppm silver, 48 ppm arsenic and 5 ppm antimony over 600 m.

The Pink claims (located approximately 18 km to the southeast), were staked to cover pervasive hematitic staining, quartz and silica stockworks and fracture controlled argillic alteration within Earn Group chert pebble conglomerate. Sampling returned only weakly anomalous gold (to 30 ppb) and arsenic (to 228 ppm) values from the southwestern and northeastern areas of the claims.

Work History

Date	Work Type	Comment
12/31/2000	Geochemistry	Also collected soil samples. Carried out during property visits.
12/31/2000	Other	Carried out during property visits.
12/31/1999	Geochemistry	
12/31/1999	Geology	
12/31/1998	Geochemistry	
12/31/1998	Geology	
12/31/1997	Geochemistry	Also soil and silt sampling.
12/31/1997	Geology	
12/31/1997	Other	
12/31/1984	Geology	Completed by Geological Survey of Canada.
12/13/2012	Airborne Geophysics	Also Radiometrics. Flowm between Vortex and West Porphyry zones.
12/13/2011	Drilling	Six holes (2,029 m). Drilling tested Vortex zone.
12/13/2011	Geology	Carried out to confirm earlier results and to located drill holes.
12/13/2006	Geochemistry	Also limited soil sampling. Carried out to confirm earlier results.
12/13/2006	Ground Geophysics	Carried out on Vortex zone.
12/13/2006	Geology	Carried out to confirm earlier results.
12/13/1998	Geochemistry	Also soil and silt sampling.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
006440	2012	2012 Soil Geochemical and Airborne Geophysical Survey Report on	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic -		

093971	1998	1998 Geological and Geochemical Assessment Report on the Harlan Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
093827	1997	1997 Geological Assessment Report on Emerald Lake Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
093882	1997	1997 Geological, Geochemical Assessment Report on the Cam 1-8 and Harlan 1-108 Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
019809	1968	Hess Area Project Proposed Property Follow-Up 1968 Field Season	Research/Summarize - Pre-existing Data		
019033	1968	Atlas Explorations Limited Project Report 1968 Hess River Area	Silt - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology		
018947	1967	Hess River Project Report	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
019032	1967	Hess River Project Report	Data Compilation - Pre-existing Data		

Related References

Number	Title	Page(s)	Reference Type	Document Type
YEG1999_24	The Harlan property: A new sediment-hosted gold discovery in the Selwyn Basin, Yukon	267-270.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
YEG1998_OV	Yukon Mining & Exploration Overview 1998	9, 27.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG1999_OV	Yukon Mining & Exploration Overview 1999	11-12, 29.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG2000_OV	Yukon Mining & Exploration Overview 2000	11-12, 29.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG2006_OV	Yukon Mining, Development and Exploration Overview 2006	11.	Yukon Geological Survey	Annual Report
YEG2011_OV	Yukon Exploration and Geology Overview 2011	34, 64, 72.	Yukon Geological Survey	Annual Report
ARMC01_6463	Geology map - Hess project - Figure No.12 - 1050/4		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC01_8175	Field map of Cache Creek 1050/4 with geochemical notations		Property File Collection	Geochemical Map
ARMC01_8176	Field map of Cache Creek 1050/4 with geochemical notations		Property File Collection	Geochemical Map
ARMC01_6464	Geochemical samples map overlay - 1050/4		Property File Collection	Geochemical Map