



Occurrence Details

Occurrence Number: 115J 071

Occurrence Name: Buck

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 6/15/2025 9:13:16 AM

General Information

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

Aliases: Brewster

Deposit Type(s): Orogenic Au, Plutonic Related Au

Location(s): 62°45'30.25" N - -138°33'47.33" W

NTS Mapsheet(s): 115J15

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

*In Feb/2012 the occurrence was moved 890 m to the southeast and renamed the Buck in order to represent in-situ mineralization discovered by Ethos Capital Corp during the summer of 2011.

Staked as Folly cl 23-32 (Y43021), cl 45-54 (Y43043), cl 67-76 (Y43065) and cl 89-98 (Y43089) in Nov/69 and Rain cl 1-9 (Y53507) in Jun/70 by Brewster Lake Mines Ltd. The northern half of the claim block appears to have been staked overtop claims staked earlier by Marguerite Mines Ltd (Minfile Occurrence #115J 070). Brewster Lake carried out reconnaissance scale, grid soil sampling and prospecting programs in 1970.

Restaked as Indra cl 1-18 (YB46916) in Jun/94 by J.P. Ross, who did not carry out any work on the claims.

Prime Properties staked Hiho cl 1-3 (YC09898) and Hiho cl 4-24 (YC13901) 2 km to the east in Mar/99 and subsequently optioned the claims to Prospector International Resources Inc which carried out geochemical sampling later that year. In Sep/2001 the company changed its name to Prospector Consolidated Resources Inc.

S. Ryan staked Flush cl 1-6 (YC60340) 1.5 km to the northeast in Apr/2007 and collected a line of soil samples in Jul/2008.

Restaked within Betty cl 1-564 (YD96501) in Sep/2010 by S. Ryan. On November 30/2010, Ethos Capital Corp optioned a 100% interest in the the claims from Ryan. The company added Betty cl 565-730 (YC133355) to the north and west sides of the claim block in Dec/2010.

Ethos Capital carried out "first pass" ridge and spur soiling, reconnaissance scale prospecting and geological mapping programs during the early part of the 2011 field season. As assay results were received, crews followed up anomalous results with detailed, grid based soil sampling. In Jul/2011 the company flew an airborne magnetic and radiometric survey over the entire claim block. Geophysical and geochemical anomalies were trenching and sampled.

In Aug/2011 the company added Betty claims 731-860 (YE21301) to the east side of the claim block.

GEOLOGY

The area was reconnaissance mapped by D. Templeman-Kluit in 1974. Gordey and Makepeace (2003) released a geological compilation that covered this area. In 2006, M. Colpron of the Yukon Geological Survey released a Tectonic Assemblage map which included this portion of the Yukon-Tanana Terrane. Recently J. Ryan, C. Roots and others employed by the Geological Survey of Canada have been conducting geological mapping in the area as part of a joint project with the Yukon Geological Survey. Various maps and other products are tentatively scheduled to be publicly released in 2012.

The Betty property presently comprises 860 claims and is located east of Britannia Creek in west-central Yukon. The northern half of the property is underlain by metamorphic rocks which Gordey and Makepeace assigned to the Devonian to Mississippian Nasina assemblage. Recent work by J. Ryan suggests that these rocks likely belong to the slightly younger Permian aged Klondike Schist assemblage. The southern half of the property is intruded by mid-Cretaceous granodiorite assigned to the Dawson Range batholith.

Both the old and new occurrence sites are underlain by mid-Cretaceous granodiorite assigned to the Dawson Range batholith. The original occurrence site appears to represent the center of weak copper soil anomaly (~40 ppm), measuring approximately 90 by 40 m in size, located in the southeast corner of the claim block.

Prospector International identified an area of weakly anomalous arsenic (up to 143.4 ppm), antimony (to 10.36 ppm) and molybdenum (to 4.42 ppm) soil geochemistry in the northern portion of the Hiho claims, approximately 1.1 km northeast of the occurrence location, in an area underlain by schist and gneiss. Ryan collected a east-west trending line of soil samples through the middle of his claim block and the center of Prospector International's previously discovered arsenic anomaly. The line which extended off both ends of the claim block returned no geochemical anomalies.

In mid-Jul/2011 Ethos Capital announced that ridge and spur soil sampling carried out in the south-central portion of their claim block had outlined a 3 square km area of anomalous gold (up to 597 ppm) and arsenic (up to 920 ppm) called the "Buck" zone. A grab sample of sub-crop collected 10 m north of the 597 ppm gold soil sample and consisting of silicified, pyrite-arsenopyrite-bearing felsic intrusive cut by quartz veins returned 2.1 g/t gold and 1 113 ppm arsenic. The new occurrence site marks the approximate location of this sample. Four additional rock samples similar in composition to the first sample and collected systematically from hand excavated pits spaced 10 m apart within a 20 m by 10 m grid located adjacent to the original 597 ppm gold soil anomaly, returned anomalous arsenic values ranging from 324 ppm to 1 113 ppm, antimony from 4 to 46 ppm; mercury from 0.2 to 0.5 ppm and barium from 212 to 647 ppm.

Follow-up trenching carried out in the immediate area of the 2.1 g/t gold sample site outlined a 250 m square area containing abundant silicification, quartz veining, iron oxidation and locally relict arsenopyrite and pyrite. Prospecting carried out 600 m south of the Buck Zone uncovered an outcrop containing boulangerite (antimony-arsenic sulphide), stibnite (antimony sulphide) and arsenopyrite (arsenic sulphide). The outcrop is located within a north-south structure that magnetic data suggests extends from the Buck zone.

The 2011 exploration program also outlined the Mascot Creek anomaly, located approximately 4.25 km to the east (see Minfile Occurrence #115J 074).

REFERENCES

BREWSTER LAKE MINES LTD, Feb/71. Assessment Report #060615 by S. Radvak.

ETHOS CAPITAL CORP, News Release. 30 Nov/2010, 6 Jun/2011, 8 Jun/2011, 12 Jul/2011, 25 Jul/2011, 9 Aug/2011, 29 Aug/2011, 12 Sep/2011, 6 Oct/2011, 27 Oct/2011.

ETHOS CAPITAL CORP, Feb/2012, Web Site. www.ethoscapitalcorp.com.

MINERAL INDUSTRY REPORT 1969-70, p. 50-52.

NIPPON MINING OF CANADA LTD, Oct/70. Assessment Report #060242 by R.W. Phendler and M.F. Cowan.

PROSPECTOR INTERNATIONAL RESOURCES INCORPORATED, Jan/2000. Assessment Report #094062 by B.J. Jaworski and B. Meyer.

PROSPECTOR INTERNATIONAL RESOURCES INC., News Release, 07/Sep 2001.

RYAN, S., Oct/2008. Assessment Report #095043 by S. Ryan.

TEMPLEMAN-Kluit, D.J., 1974. Reconnaissance geology of Aishihik Lake, Snag and part of Stewart River map-areas, west-central Yukon; Geological Survey of Canada, Paper 73-41, 97 p. (including preliminary maps 16-1973 (115JK), 17-1973 (115H) and 18-1973 (115N)).

YUKON EXPLORATION AND GEOLOGY 1999, p. 16.

YUKON EXPLORATION AND GEOLOGY OVERVIEW 2011, p. 47-48, 62.

Work History

Date	Work Type	Comment
7/30/2011	Airborne Geophysics	Magnetic and radiometric surveys.
6/30/2011	Trenching	Trenched soil and geophysical anomalies.
6/30/2011	Geochemistry	Grab samples and chip samples.
6/30/2011	Geochemistry	Ridge and spur sampling followed by detailed sampling.
12/31/2008	Geochemistry	One line of sample collected across and extending outside claims.
12/31/1999	Geochemistry	On Hiho claims.
12/31/1970	Geochemistry	Reconnaissance scale on Folly and Rain claims.
12/31/1970	Other	Prospecting on Folly and Rain claims.
10/1/2021	Geochemistry	
10/1/2021	Geology	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096545	2012	Prospecting, Soil, Ground Magnetic Surveying, and Reverse Circulation Drilling on the Betty Project, White Gold District, Yukon Territory	Reverse Circulation - Drilling, Rock - Geochemistry, Soil - Geochemistry, Magnetics - Ground Geophysics, Prospecting - Other	61	273
096155	2011	Prospecting, Soil Geochemistry, Airborne Magnetic and Radiometric Surveying, and Airphoto-Orthophoto Surveying on Betty Project	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Orthophoto - Airphotography, Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other, Backhoe - Trenching		
096304	2011	Prospecting, Soil Geochemistry, Airborne Magnetic and Radiometric Surveying, on the Bridget Project	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Orthophoto - Airphotography, Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other		
017450	1966	Report on Geochemical Survey-Dip Creek Watershed	Silt - Geochemistry, Soil - Geochemistry		
019098	1965	Geophysical Report-Cat Claims-Casino Creek Area	Magnetic - Airborne Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
2003-9(D)	Yukon Digital Geology (version 2)		Yukon Geological Survey	Open File (Geological - Bedrock)
1995-2(G)	Geological Compilation with Interpretation from Geophysical Surveys of the Northern Dawson Range, Central Yukon (115 J/9 & 10; 115 I/12)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
2006-1	Tectonic assemblage map of Yukon-Tanana and related terranes in Yukon and northern British Columbia (1:1 000 000 scale)		Yukon Geological Survey	Open File (Geological - Bedrock)
ARMC016563	Geochemical map - 115J/15 - Britannia Creek		Property File Collection	Geochemical Map
ARMC016562	Geology map - 115J/15 - Britannia Creek		Property File Collection	Geoscience Map (Geological - Bedrock)

