



## Occurrence Details

**Occurrence Number:** 105D 020

**Occurrence Name:** Charleston

**Occurrence Type:** Hard-rock

**Status:** Prospect

**Date printed:** 4/29/2025 7:09:34 AM

## General Information

**Secondary Commodities:** gold, lead, silver

**Aliases:** Mascot

**Deposit Type(s):** Vein Au-Quartz

**Location(s):** 60°10'14" N - -135°30'8" W

**NTS Mapsheet(s):** 105D04

**Location Comments:** .5 Kilometres

**Hand Samples Available:** Yes

**Last Reviewed:**

### Capsule

#### Work History

Originally staked as Mascot cl (18053) and Charleston cl (18089) prior to Jul/07 by C. Weik and associates, who explored with adits and trenching. The claims were optioned from 1921-22 by Slate Creek Mining, which drove a 61 m adit; in 1927 by Mascot Mining Company; and from 1967-68 by Adanac Mining and Exploration Ltd. The claims were surveyed by E. Johnson and M. Watson as Lease 688 in 1954. A group of 12 claims (Selkirk, Cornwall, Cape York, etc) were staked approximately 3.2 km to the west prior to Jul/07 but no claim records have been preserved. The Bud cl 1-8 (91527) were tied on to the south in Dec/64 by Yukon Antimony Corporation Ltd. The Nat Joint Venture (Armco Mineral Exploration Ltd and Chevron Canada Ltd) tied on the Nomen Dubium cl 1-24 (YA50928) 1.6 km to the northwest in Jul/80 and carried out geochemical sampling in 1980 and geochemical sampling and prospecting in 1981.

The Nomen Dubium claims were restaked as Earl cl 1-32 (YA77893) in Jul/83 by Agip Canada Ltd and optioned to Kerr Addison Mines Ltd in 1984. Kerr Addison carried out prospecting, geological mapping and geochemical sampling the following year in 1985.

Shakwak Exploration Company Ltd optioned the Charleston crown grant and staked Ho cl 1-8 (YA82047) to the south in Jun/84. Shakwak carried out preliminary prospecting and geochemical sampling and staked Ho cl 9-20 (YA82985) in Aug/ 84; carried out trenching, geological mapping and additional geochemical sampling in Nov/84; and entered a joint venture with Island Mining and Exploration Company Ltd in 1986, which carried out geological mapping, prospecting, machine trenching, geochemical rock and soil sampling and road building.

Geovista Gold Corporation tied on JJ cl 1-10 (YA82813) and Ash cl 1-10 (YA94075) to the south of the Ho claims in Aug/84 and Dec/85, respectively and carried out geological mapping, prospecting, geochemical rock and soil sampling in 1986 and 1987. In 1986, Kerr Addison carried out geological mapping, soil sampling and hand trenching on the Earl claims before dropping the option in spring/87. Shakwak and Island added Island cl 1-13 (YA94330) and carried out geological mapping, geochemical sampling and drilled 3 holes (403.6 m) in 1987 on Ho cl 2, one km southeast of the actual occurrence location.

Pacific Trans-Ocean Resources Ltd optioned the Earl group and carried out geological mapping, geochemical rock and soil sampling, VLF-EM and magnetometer surveying and trenching in 1987 and minor prospecting, blast trenching and geochemical sampling in 1988. Pacific Trans-Ocean transferred a 50% interest in the Earl claims to Agip in Mar/89 and blast trenching was carried out later that year by Northern Mineral Ltd.

Total Erickson Resources Ltd optioned the Ho claims and the Charleston crown grant in 1988 and carried out detailed geological mapping and trenching. During this period Total Erickson aquired and merged with Getty Resources Ltd and subsequently changed its name to Total Energold Corporation. Total Energold rehabilitated and mapped the Charleston adits in 1989 before dropping the option and returning the claims to Shakwak in Jan/90.

Omni Resources Ltd staked Mindy cl 1-4 (YC08027) 2 km to the southwest in Aug/97 and restaked the Twist zone as Duke cl 1-2 (YC08199) in Sep/97 before reportedly carrying out limited geochemical rock sampling later that year.

Trumpeter Yukon Gold Inc acquired a 50% interest in Omni Resources Ltd in Sep/1997. In 2000 when the Charleston crown grant lapsed Trumpeter restaked the adits and surrounding area as Char cl 1-43 (YC18781) in Jul/2000. In Nov/2000 Omni amalgamated with Trumpeter Yukon Gold Inc to form Tagish Lake Gold Corporation, which carried out prospecting, geochemical rock sampling and staked Char cl 44-52 (YC19347) contiguously to the south in Aug/2001.

#### Capsule Geology

The Charleston vein is a banded quartz-sulphide vein containing gold and silver which cuts the Mt. McNeil Pluton, a mid-Cretaceous granodiorite of the Whitehorse Plutonic Suite, on the southwest flank of Mt Skukum. Mineralization consists of pyrite, fine grained galena and occasional malachite. The vein varies from 0.15 to 6 m wide, averaging about 0.5 m, and is well exposed in two 1920's adits. It strikes northwest, dips east at 35° to 45° and has been traced over a length of 700 m. Surface and underground exposures of the vein are offset by a number of northeast-trending normal faults, and a sericite alteration envelope extends 1.5 m into the host granodiorite. Grab samples up to 433.7 g/t Au and 5 108.4 g/t Ag have been reported. A composite grab sample across 1.8 m of the Charleston vein assayed 3.77 g/t Au and 51.4 g/t Ag. Samples taken from 13 trenches along 610 m of strike length averaged 11.7 g/t Au and 288.0 g/t Ag across 0.6 m.

Two Shakwak trenches on a strike extension 100 m south intersected 14.4 g/t Au, 672 g/t Ag and 2.9% Pb across 1.9 m, and 17.8 g/t Au, 123.4 g/t Ag and 1.8% Pb across 0.6 m.

In 1986, Island and Shakwak traced the Charleston structure 700 m north onto the Earl claims, where the host rock consists of Upper Proterozoic and Paleozoic carbonaceous quartz-mica schists and minor marble of the Nasina Assemblage. Earlier in 1985, Kerr Addison had traced quartz vein float from this structure north for a strike length of 2 km and identified the Twist Zone, 1.2 km north of the occurrence location. Trenching on the Twist Zone by Northern Minerals Ltd in 1989 exposed concordant quartz veins in graphitic phyllite which contained fine grained pyrite, arsenopyrite, galena, tetrahedrite and minor malachite, azurite and chalcopyrite. Chip samples from veins on the Earl property include 11.7 g/t Au and 1 053.2 g/t Ag across 2 m and 2 558 ppb Au, 193.9 ppm Ag over 0.5 m.

Prospecting on the Ash claims, 2.3 km southwest of the Charleston adits, located a series of narrow quartz veins containing galena and pyrite that are 5 to 10 m long on the northeast side of the property, and a 5 m wide rusty quartz vein containing pods of galena, pyrite, minor chalcopyrite and traces of molybdenite along the southeast side of the property.

Total Energold trenching a 453 ppm soil anomaly 600 m west of the adits and exposed a narrow quartz vein with traces of galena, pyrite, tetrahedrite and arsenopyrite (the Star showing). Chip samples at 1 m intervals returned up to 960 ppb Au and 123.9 ppm Ag, and a narrow galena vein was reported to contain 92 779 ppb Au and 686.0 ppm Ag.

Prospecting and analysis of sampling carried in 2001 by Tagish Lake in the vicinity of the Charleston adits and other historical showings and zones in the area reconfirmed gold values reported by previous operators.

#### References

ASHLEY, C., Sep/86. Assessment Report #091848 by R.A. Doherty.

CANADIAN MINES HANDBOOK 1989-90, p. 445-446.

DICKSON, H.G., Dominion Land Surveyor, Jul/07. Claim compilation map of part of Conrad Mining District. Yukon Archives.

GEOLOGICAL SURVEY OF CANADA Summary Report 1922, p. 5.

GEOLOGICAL SURVEY OF CANADA Memoir 150; Memoir 312, p. 126-127.

GEOVISTA GOLD CORPORATION, Nov/87. Assessment Report #091970 by R. Hulstein.

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).

HART, C.J.R. and RADLOFF, J.K., 1990. Geology of Whitehorse, Alligator Lake, Fenwick Creek, Carcross and part of Robinson Map Areas (105D/11, 6, 3 and 7). Indian and Northern Affairs Canada, Yukon Region, Open File 1990-4.

ISLAND MINING AND EXPLORATION COMPANY LTD, Jan/87. Assessment Report #091897 by T. Garagan.

KERR ADDISON MINES LTD, May/86. Assessment Report #091824 by J. Pautler.

LANG, J., RHYS, D. and NAAS, C., 2003. Structure and alteration related to gold-silver veins at the Skukum Creek depoist, southern Yukon. In: Yukon Exploration and Geoly 2002, D.S. Emond and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 267-280.

NAT JOINT VENTURE, Feb/81. Assessment Report #090740 by E.P. Onasick and A.R. Archer.

NAT JOINT VENTURE, Feb/82. Assessment Report #090975 by A.R. Archer.

NORTHERN MINERALS LTD, Nov/89. Assessment Report #092767 by R. Hulstein.

OMNI RESOURCES INC and TRUMPETER YUKON GOLD INC, Nov/2000. Joint News Release.

PACIFIC TRANS-OCEAN RESOURCES LTD, Jan/88. Assessment Report #092084 by T. Garagan.

PACIFIC TRANS-OCEAN RESOURCES LTD, Dec/88. Assessment Report #092595 by L. Walton and T. Garagan.

SHAKWAK EXPLORATION COMPANY LTD, Jun/85. Assessment Report #091648 by G.C. MacDonald.

TAGISH LAKE GOLD CORPORATION, Feb/2002. Assessment Report #094261 by C.O. Naas.

WHITEHORSE MINING RECORDER, 1930. Annual Report.

YUKON EXPLORATION 1985-86, p. 155-156, 190, 199-200; 1987, p. 125-126, 133; 1988, p. 45.

YUKON EXPLORATION AND GEOLOGY 1981, p. 114; 2001, p. 18.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 165.

Work History

Date	Work Type	Comment
7/1/2020	Geochemistry	
12/31/2001	Geochemistry	
12/31/2001	Other	
12/31/1997	Geochemistry	On Twist zone.
12/31/1989	Geology	
12/31/1989	Development, Underground	
12/31/1988	Geology	
12/31/1988	Trenching	
12/31/1987	Drilling	Number of holes drilled: 3 Amount of work done: 403.6 METRES
12/31/1986	Geology	
12/31/1986	Trenching	
12/31/1986	Other	
12/31/1986	Other	
12/31/1985	Geochemistry	
12/31/1985	Geology	
12/31/1985	Other	
12/31/1984	Geology	
12/31/1984	Trenching	
12/31/1984	Other	
12/31/1984	Other	
12/31/1981	Other	

12/31/1981	Other	
12/31/1980	Other	On Nomen Dubium claims.
12/31/1954	Other	
12/31/1922	Other	Amount of work done: 61 METRES Completed between 1921 and 1922.
12/31/1921	Other	
12/31/1907	Trenching	
12/31/1907	Other	

### Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">094261</a>	2001	Prospecting and Rock Sampling on the Char 1-43 Claims	Rock - Geochemistry, Silt - Geochemistry, Prospecting - Other		
<a href="#">092084</a>	1987	Trenching and Exploration Report Earl 1-32 Claims	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Line Cutting - Other, Mechanical - Trenching		
<a href="#">091897</a>	1986	Geological Mapping and Geochemical Sampling Ho 1-20 Claims, Island 1-12,13FR and Cat Trenches on the Ho-2 Claims	All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Line Cutting - Other, Prospecting - Other, Mechanical - Trenching		
<a href="#">091824</a>	1985	Geological and Geochemical Report on the Earl Claims	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
<a href="#">090975</a>	1981	Geochemical and Geological Report Nomen Dubiu, 1-24 Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Prospecting - Other		
<a href="#">090738</a>	1980	Geological and Geochemical Report, Nat Joint Venture Norm 11-8 Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
<a href="#">090740</a>	1980	Geochemical and Geological Report Nat Joint Venture Nomen Dubiu, 1-24 Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		

### Related References

Number	Title	Page(s)	Reference Type	Document Type
<a href="#">ARMC005190</a>	Compilation map - Showing geology, claims and showings - Glenlivet, Later, Said, The, Earl Claims - Mt. Skukum area		Property File Collection	Geoscience Map (General)
<a href="#">ARMC009772</a>	Long section map - Lake zone		Property File Collection	Geoscience Map (General)
<a href="#">ARMC009775</a>	Orthophoto map - Mount Skukum		Property File Collection	Geoscience Map (General)
<a href="#">ARMC008862</a>	Summary for Toronto conference - Botwat, Said The, Later, Glenlivet and Earl claims		Property File Collection	News Release

### Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
<a href="#">DDH-87-S1</a>	Charleston	1987	NQ	16	1
<a href="#">DDH-87-S2</a>	Charleston	1987	NQ	23	1
<a href="#">DDH-87-S3</a>	Charleston	1987	NQ	14	1