Occurrence Details

Occurrence Number: 115O 116
Occurrence Name: Pyroxene
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 6/15/2025 10:39:41 AM

General Information

Secondary Commodities: chromium, copper, gold, nickel, palladium, platinum
Deposit Type(s): Ultramafic Mafic Podiform Chromite
Location(s): 63°1'16" N - -138°20'59" W
NTS Mapsheet(s): 115O01
Location Comments: 1 Kilometres. Occurrence lies within area withdrawn from staking as part of Selkirk First Nation Land Claims Agreement.
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as PY cl 1-64 (YA55186) in Apr/81 by M. Barker.

Restaked as BTT cl 1-32 (YA87943) in May/86 by Doron Explorations Inc. In Jan/87 R. McPhee surrounded the claim block with Irish cl 1-150 (YA88503), Rest cl 1-104 (YA89204) and Kips cl 1-112 (YA88812). Both properties were optioned by M.J. Brady who explored with geophysical and geochemical surveys in 1987. The Rest claims were transferred to Brady in Apr/89. R. McPhee performed a VLF-EM survey and soil sampling on the Irish claims in Jul/90.

Restaked as Stock cl 1-32 (YB53597) in Apr/95 by Bostock Holdings Ltd. The company staked the adjoining Bos cl 1-32 (YB53565) at the same time. In Jul/96 Bostock Holdings collected two lines of soil samples (28 samples) and 10 chip samples on the northwest side of the Stock claims.

In Jul/1997 this occurrence and the surrounding area was withdrawn from staking as part of the Selkirk First Nation's Final Land Claims Agreement. The Bos and Stock claims lapsed in Nov/1997.

GEOLOGY

The occurrence area is located on the north side of the Stewart River and encompasses the area surrounding Pyroxene Mountain in west central Yukon. J. Ryan and S. Gordey of the Geological Survey of Canada remapped the Stewart River map sheet area (NTS 115N&O) in the early 2000's (including the north side of the Yukon River) and released a geology map in 2004 and a geological compilation in 2005. The compilation map differed slightly from the earlier map due to revisions related to newly disclosed age dating results.

Based on the geological mapping completed by Ryan and Gordey the occurrence is underlain by Late Triassic Pyroxene Mountain medium to coarse-grained, massive equigranular pyroxenite. An Early Jurassic granodiorite and quartz monzonite stock intrudes the ultramafic rocks along their north and northwest borders

The original claims were staked on reports published by the Geological Survey of Canada describing platinum occurring in nearby placers.

The 1987 soil geochemical surveys outlined two 1 000 to1 200 m long anomalies. The first anomaly was centred approximately 2.25 km northwest of the occurrence location (around Irish claim #49) while the second anomaly was centred approximately 2.0 km to the southwest (around Irish claim #15). The anomalies appear to coincide with the margins of the stock and contain up to 280 ppb platinum, 150 ppb palladium and 110 ppb gold. A specimen of friable ultramafic rock collected from within the northern anomaly assayed 15.2 g/t gold and 280 platinum.

R. McPhee's 1990 geochemical and VLF-EM surveys covered the northerly of the two (1987) soil anomalies. Except for one palladium assay, soil sampling failed to confirm earlier results. A VLF-EM conductor coincided with a zone of high iron values in overlying soil (2.37-4.06% iron).

Bostock Holdings focused their rock and soil sampling program over the northern anomaly where in 1987, the 15.2 g/t gold rock sample was collected. Rock samples returned values up to 39 ppb gold, 55 ppb platinum and 40 ppb palladium. . A soil sample collected from the site of the 1987 rock sample returned 2 ppb gold.

REFERENCES

BOSTOCK, H.S., 1937. Geological Survey of Canada, Memoir 218.

BOSTOCK HOLDINGS LTD, Dec/96. Assessment Report #093529 by M.A. Stammers.

BRADY, M.J., Jan/88. Assessment Report #092088 by D.H. Waugh.

DORON EXPLORATIONS INC., Dec/87. Prospectus Report #062285 by J.E. Wallis.

GORDEY, S.P. AND RYAN, J.J. 2005. Geology, Stewart River Area (115N, 115 O and part of 115J), Yukon Territory; Geological Survey of Canada, Open File 4970, scale 1:250 000.

RYAN, J.J. AND GORDEY, S.P., 2002: Bedrock geology of Yukon-Tanana terrane in southern Stewart River map area, Yukon Territory; Geological Survey of Canada, Current Research 2002-A1, 11 p.

Ryan, J.J. ET AL., 2003: Update on bedrock geological mapping of the Yukon-Tanana terrane, southern Stewart River map area, Yukon Territory; Geological Survey of Canada, Current Research 2003-A9, 7 p.

Ryan, J.J. AND GORDEY, S.P., 2004; Geology Stewart River Area (Parts of 115N/1,2,7,8 and 115O/2- 12), Yukon Territory; Geological Survey of Canada, Open File 4641, scale 1:100 000.

WEACO RESOURCES LTD, May/91. Assessment Report #093007 by B.G. Richards.

YUKON EXPLORATION 1987, p. 286, 294.

YUKON EXPLORATION AND GEOLOGY, 1981, p. 224.

Work History

Date	Work Type	Comment
12/31/1996	Geochemistry	
12/31/1996	Geochemistry	
12/31/1990	Geochemistry	
12/31/1990	Ground Geophysics	Also VLF survey.
12/31/1987	Geochemistry	
12/31/1987	Ground Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
092088	1987	A Preliminary Geochemical Geophysical Report on the IRISH REST KIPS BTT Claims	Rock - Geochemistry, Soil - Geochemistry, Magnetics - Ground Geophysics, Petrographic - Lab Work/Physical Studies, Line Cutting - Other, Landsat - Remote Sensing		
062285	1986	Preliminary Field Examination Report on the Pyroxene Mtn. Claims	Cursory Property Visit - Other		

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)
ARMC016527	Coloured geology map - 115O/1 - Pyroxene Mountain		Property File Collection	Geoscience Map (Geological - Bedrock)