Occurrence Details

Occurrence Number: 105G 091
Occurrence Name: Box
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 12/18/2025 8:12:51 AM

General Information

Secondary Commodities: copper, lead
Aliases: Carlos, Tuf
Deposit Type(s): Volcanogenic Sulphide - type not determined
Location(s): 61°43'33" N - -130°47'31" W
NTS Mapsheet(s): 105G10
Location Comments: 1 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

The first record of claim staking in this area is by A. Carlos and G. Harris who staked Tuf cl (YA12172) 3 km west of the north end of Finlayson Lake in Dec/76. There is no record of any assessment work being filed with regard to these claims.
Expatriate Resources Ltd staked Box cl 1-20 (YB59163) 5 km to the south in Mar/95 and carried out grid geochemical soil sampling, geological mapping and prospecting, before staking Box cl 21-38 (YB60837) to the west and southwest in Aug/95. The company subsequently carried out a similar program of mapping and sampling on the newly staked claims in September of that year. Early in 1996, Expatriate carried out airborne geophysical EM and magnetometer surveying of the Box claims.
Other claims staked in this area at this time included a large block of non-sequential War claims (cl 1 = YB79853) staked 5 km to the northeast in Mar/96 by Condor International Resources Inc; a large block of non-sequential Ran claims (cl 3 = YB79959) staked east of the War claims later in the month by L. Barry; and Marathon cl 1-20 (YB85236) staked 3 km to the southwest in Jul/96 by J. Ruza.
Expatriate staked Box cl 39-40 (YB93657) on the northeast corner of its existing claim block in Jun/2002; carried out geological mapping, prospecting and geochemical rock sampling of the central portion of the claim group in Jul/2002; staked Box cl 41-120 (YB93657) to surround the existing claims in Sep/2002; and reinterprted the 1996 airborne geophysical survey. In 2003 the company carried out ground geophysical UTEM surveying, geological mapping and prospecting, also focused on the central portion of the claim group.
Expatriate changed its name to Yukon Zinc Corpoartaion in Dec/2004.

Capsule Geology

The most recent interpretation (Murphy, 2004) of earlier geological mapping of this area carried out by the Yukon Geological Survey (Murphy et al, 2001) suggests that the Box claims occur within the Big Campbell Thrust Sheet. Comprised of the structurally deepest rocks and those that host the majority of massive sulfide deposits in the Finlayson District, the thrust sheet is bound below by the Big Campbell thrust and above by the Money Creek thrust. Felsic metavolcanic rock, consisting of quartz +/- chlorite + muscovite schist and quartzofeldspathic grit and sandstones inferred to be of the Lower Mississippian Wolverine Lake group underlie the area.
The Box claims were staked to protect anomalous geochemical response identified from unpublished regional geochemical data collected by Archer Cathro on behalf of the Finlayson Joint Venture in 1973.
Expatriate¿s earliest sampling in the area revealed weakly to strongly anomalous clusters of copper and lead response along the banks of Campbell Creek which bisects the claims block. Elevated arsenic and antimony response was also detected further to the east in an area where a prominent gossan and leached kill zone is located. Geochemical response over most of the rest of the property is subdued, likely as the result of extensive glacial cover.
Interpretation of the airborne geophysical survey suggests that the property is underlain by resistive rock with only a few weak conductive zones possibly representing conductive material along structures/faults or weakly conductive formational bands. No massive sulfide type EM responses were measured during the 1996 survey. Ground follow up utilizing UTEM methods was later carried out in an unsuccessful attempt to identify anomalous geophysical response caused by massive sulfide type conductors at depths greater than the 70 m depth of penetration of the airborne EM survey.
A weak magnetic high was revealed in the vicinity of the area underlying the kill zone and subsequent prospecting of this area identified highly altered porphyritic felsic volcanic rocks that Expatriate correlates with rocks similar to those that host and underlie the Kudz Ze Kayah deposit located 27 km to the south (Minfile Occurrence #105G 117). Subsequent interpretation of this area of the Box claims by Expatriate, suggests that it may lie at the top of the exposed stratigraphy in the area and if this zone does represent distal alteration typically found underlying massive sulfide mineralization, than that mineralization has likely been eroded.

References

EXPATRIATE RESOURCES LTD, Jun/96. Assessment Report #093489 by W.A. Wengzynowski.

EXPATRIATE RESOURCES LTD, May/97 Assessment Report #093655 by R.W. Woolham.

EXPATRIATE RESOURCES LTD, May/2003. Assessment Report #094382 by J. Klein with addendum by J.K. Dunning.

EXPATRIATE RESOURCES LTD, Sep/2004. Assessment Report #094461 by J.K. Dunning.

MURPHY, D.C., COLPRON, M., GORDEY, S.P., ROOTS, C.F., ABBOTT, G., LIPOVSKY, P.S., 2001. Preliminary bedrock geological map of northern Finlayson Lake area (NTS 105 G), Yukon Territory (1:100 000 scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-33.

MURPHY, D.C., COLPRON, M., ROOTS, C.F., GORDEY, S.P., and ABBOTT, J.G., 2002. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon), Part 1: Bedrock Geology. In: Yukon Exploration and Geology 2001, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 189-207.

MURPHY, D.C., 2004. Devonian-Mississippian metavolcanic stratigraphy, massive sulphide potential and structural re-interpretation of Yukon Tanana Terrane sout of the Finlayson Lake sulphide district, southeastern Yukon (105G/1. 105H/3, 4, 5). In: Yukon Exploration and Geology 2003, D.S. Emond and L.L. Lewis (eds.), Yukon Geological Survey, p. 157-175.

YUKON EXPLORATION AND GEOLOGY 2002, p. 18; 2004, p. 30.

YUKON ZINC CORPORATION, News Release, 17 Dec/2004.

Work History

Date	Work Type	Comment
12/31/2003	Geology	
12/31/2003	Ground Geophysics	UTEM survey.
12/31/2003	Other	
12/31/2002	Geochemistry	
12/31/2002	Geology	
12/31/2002	Other	
12/31/1996	Airborne Geophysics	Airborne EM and magnetometer.
12/31/1995	Geology	
12/31/1995	Geochemistry	
12/31/1995	Other	
12/13/2002	Studies	Re-evaluated 1996 airborne geophysical data.

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016587	Geochemical map - 105G/10 - Finlayson Lake		Property File Collection	Geochemical Map
ARMC016581	Geology map - 105G/10 - Finlayson Lake		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC018662	Field map of Pelly Mountain area - 105G/10, 105G/15		Property File Collection	Geoscience Map (General)