



Occurrence Details

Occurrence Number: 105M 066

Occurrence Name: Kalzas

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 5/31/2025 8:15:09 AM

General Information

Secondary Commodities: beryllium, lead, molybdenum, silver, tin, tungsten

Aliases: Flo

Deposit Type(s): Vein W

Location(s): 63°15'58" N - -134°42'7" W

NTS Mapsheet(s): 105M07

Location Comments: .5 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Pat, Blackie and David cl (YA38160) in Aug/78 by J. Randolph, who staked Wolf cl 1-4 (YA42732) contiguously to the west in Aug/80.

Late in 1980 Randolph optioned the claims to Union Carbide Canada Ltd, which staked Wolf cl 5-48 (YA62802) to surround the existing claims in Jun/81; carried out geochemical rock and soil sampling and bulk sampling from talus cones later that year; geological mapping, trenching, geochemical rock sampling and road work in 1982; staked Fram cl 1-60 (YA76897) in Mar/83 and carried out detailed geological mapping and drilled 2 holes (667.8 m) on the David claim later that year; and bulldozer trenching in 1984. Union Carbide staked Ite cl 1-31 (YA77560) to the north in Jun/84, subsequent to dropping the option later in the year.

Randolph carried out trenching on the Blackie claims in 1989, restaked the Wolf cl 5-10 (YB03686) in Jul/90 and carried out additional trenching in 1991 and 1993. By the late 1990s all but eight of the claims had lapsed, before they were subsequently surrounded by Class A settlement lands selected by the Selkirk First Nation.

In Jul/2001, Copper Ridge Explorations Inc optioned the claims and immediately carried out resampling of historic drill core and trenches. Copper Ridge carried out detailed geochemical rock chip sampling and geological mapping of historic trenches in 2002 and diamond drilling to test below high-grade trenches in 2005. Five holes totalling 397.4 m were drilled in 2005.

Capsule Geology

Wolframite occurs with minor scheelite, molybdenite, cassiterite, galena and beryl in a broad, sheeted vein and stockwork complex, approximately 1 000 by 500 m in size, that cuts gritty, hornfelsed Yusezyu Formation quartzite and phyllite of the Upper Proterozoic Hyland Group. Individual veins reach 60 cm in width and higher grade zones, occurring over 1 to 6 m, in competent quartzite and siliceous conglomerate have been identified.

Molybdenite, arsenopyrite, pyrrhotite and argentiferous galena occur in quartz veins peripheral to the tungsten-tin zone. Mineralogical study showed that the wolframite variety ferberite is partly replaced by ferritungstite. Veins and mineralization associated with this occurrence are undeformed and therefore post-date the effects of regional metamorphism during the Jurassic to Early Cretaceous period.

Alteration is locally intense and zoned, with four roughly concentric phases that are generally concordant with stratigraphy. The core phase or zone is characterized by K-feldspar and minor sulfides in sheeted veins and biotite in the wall rock; followed by a wolframite zone which overlaps the core and surrounding quartz-tourmaline zone; the quartz-tourmaline zone which is distinguished by the presence of tourmaline and absence of wolframite; and an outermost zone or halo of quartz-sericite-pyrite, characterized by pervasive sericitization and disseminated pyrite.

Surface sampling by Union Carbide returned average grades of 0.2 to 0.3% WO₃, typically over widths of 50 to 75 m, while Copper Ridge's sampling demonstrated a significant increase over Union Carbide's results with average grades of 0.3 to 0.5% WO₃, over widths up to 70 m. Sampling of higher grade zones in 2002 returned values to 1.22% to 2.55% WO₃ over widths of a few meters. Drilling in 1973 confirmed the continuity of the mineralization to a depth of 300 m.

Intrusive rock is not exposed in the area, but the concentric alteration aureole, the increased intensity of alteration with depth, the prominent aeromagnetic low coincident with the occurrence and the presence of boron to form tourmaline are all suggestive of an underlying granitic body. A whole-rock K-Ar age date of 90.7 +/- 1.4 Ma from a pervasively biotitized sample (Hunt and Roddick, 1987) is consistent with the age of the Tombstone Plutonic Suite, intrusions of which have previously mapped throughout this belt of rocks.

References

CARLSON, G.C., 2002. Geology, mineralization and sampling results of from the Kalzas tungsten property, central Yukon. 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. 269-278.

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ROOTS, C.F., 1997b. Geology of the Mayo Map Area, Yukon Territory (105M). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 7, 82 p.

UNION CARBIDE CANADA LTD, Oct/81. Assessment Report #090878 by C.N. Forster.

UNION CARBIDE CORPORATION, Mar/84. Assessment Report #091529 by C.N. Forster.

YUKON EXPLORATION 1984, p. 123.

YUKON EXPLORATION AND GEOLOGY 1981, p. 168; 1982, p. 157; 1983, p. 208; 2001, p. 14.

Work History

Date	Work Type	Comment
12/31/2005	Drilling	Number of holes drilled: 5 Amount of work done: 397.4 METRES
12/31/2002	Geochemistry	
12/31/2002	Geology	
12/31/2001	Geochemistry	
12/31/1993	Trenching	
12/31/1991	Trenching	
12/31/1989	Trenching	
12/31/1984	Trenching	
12/31/1983	Drilling	Number of holes drilled: 2 Amount of work done: 667.8 METRES
12/31/1983	Geology	
12/31/1982	Development, Surface	
12/31/1981	Geology	
12/31/1981	Trenching	
12/31/1981	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095595	2005	2005 Diamond Drilling Report on the Kalzas Tungsten Property	Diamond - Drilling, Drill Core - Geochemistry	5	397.44
094408	2002	Kalzas Project-Report on 2002 Field Program	Rock - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock Mapping - Geology, Mechanical - Trenching		
091529	1983	[1983 Diamond Drilling Program on the David Claim]	Diamond - Drilling, Drill Core - Geochemistry	2	412.39
090878	1981	Assessment Report on the Geology and Geochemistry of the Wolf, David, Blackie and Pat claims-Kalzas Twins Mountain	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Bulk Sample - Lab Work/Physical Studies, Line Cutting - Other, Prospecting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016450	Geochemistry map overlay of 105M/7		Property File Collection	Geochemical Map