

c Whitehorse District, Yukon. (1926)

Cockfield, W.E. and Ball A.H.

014197

GSC Mem. 150 1926

Cairnes, D.D. 1908. Canada and U.S. Mining Districts. G.S.C.  
 McConnell, R.G. U.S. Copper Belt. G.S.C. 1909.  
 Cairnes, D.D. G.S.C. Mem. 31 (1912) G.S.C. Summ Rept, 1915  
 Dawson G.M. Rept ~~on~~ Expl. of Yukon Dist. pp. 36-49. N.W.T. G.S.C. 1887  
 Rept on Atlin Mining Dist. G.S.C. Ann Rept vol XII pt 3 (1899)  
 (J.C. Swillim.)

Era	Period	Am	lithologic character
Quaternary		Superficial	Gravel sand boulder clay silt mud maraine, volcanic ash, soil
Tertiary		Acid Volcs	Rhy, or porph; related tuffs; assoc tuffs & breccias.
		Newer volcs	Andesite, Bs, related dikes, Assoc tuffs, breccial.
Mesozoic	U In or later	C.R. Intineses	Granitic Ex Car → dia, assoc porph. phases
	L, & M. In	older volcs	And Bs diabase, related tuffs, assoc tuffs, breccial.
		Tantalus cgl Lalberge series	cgl, with ss sh seams of coal
Pal.	Tn &/or Carbonif(?)	Ls	Ls, more or less dolomitic
	Dew (?)	tantalup. Gold series (?)	slates, cherty qtz, etc. pxite, pe
P. e. ?	MT Stevens Cp		Sericitic & chl schist, marked base to semi basic volcs, gneissoid qtz, Hb gneiss, Ls.

Red Ridge basic Ex with chrysoth. →  $\frac{3}{16}$ "

Structure NW

- (a) C.R.B. to W many penants, septa, incl.  
outlying ~~to~~ to east.
- (b) Lalberge series to east.

Econ. Geol.

All main ore types described here.

Inhibited: (a) High cost of trans - supports W.D. & P. (any) - aids by lower value.  
(b) Permafrost, overburden.

- (a) Au-Ag qtz veins: (minor barite) Aspy, Cp, Pb, py, tet, silic
- (b) Sb-Ag (argenteite, pyarg, jamesonite, cc, Yutond)
- (c) Ag-Pb (Au, Ag, Tellurides, etc)
- (d) Contact Meta

(a) Au-Ag (a) Widely distributed - chiefly in CR - intrusions

Wash-Toronto M. & M. Dail & Fleming Cp

(b) Sb-Ag (Carbon) (E base of Carbon Hill & part of Cheffean Hill)

only 2 localities (in one place)

- (a) Fleming Property
- (b) Goddell
- (c) Becker - Cochran

- (b) Wheaton dist
- Mt Stevens
- Buffalo Kings Cp
- Midnight Cp
- Wheaton Mtn.
- Tally hot gulch
- Mt Anderson, Whetstone, & Sheep Mtn Cps.
- Gold Hill & Veinety
- Mt Reid
- Mascot Cp

(c) Ag-Pb (many with Au)

also sep.

1. Union Mines
2. Nevada Mines

In CR intrusions of Cheffean Hill

in large Ex. (Ma. repl)

(c) Contact Met Contact of CR. mts. with ls. W. of Copper Belt.

(15-mile wide belt // lower R)

ls & Gr & in Gr - barite, Cp, little Fe silic, unmar cc

andradite, Argite, Wo, act., ep, colcite, mt, hematite, Aspy, Sb, Cu, sp Mo

Best chance, Arctic chief, little chief belt.

- (a) Mt, hem gangue.
- (b) Silicate gangue - common.

late In → h. crust

Low temp hydrothermal  
All o.d. close to Cr. Ex