

Polar: Fr: 890-8766.

004888

036,622 @ 0.93
1.995/1
waste before

tract	deposit name	dep type	geometry	structure	geophysics	metals-mineralogy	production	reserves
	from south to north							4900 t @ 0.92
	Cowley pk	silicate skam	U-shaped pendant	300m long, closed at depth	IP anom, weak mag	brown gnt, diops, act, trem-woil, diss cp, bn, mo, minor mt +serp		770,000 t @ 1.02% Cu, (ass rep: 1Mt @ 0.9% Cu, 0.06% MoS2), 213 000 t @ 2.46% Cu, 0.14% MoS2 (from minfile), Watson: 884 000 t o.p.
	U.S. south zone		large embayment of seds in diorite	steeps. to N.	IP			
	Sue					bn, cp, mo in gnt-act skam		
	Brown cub	mt-serp skam	lmsn finger, fault related	small area	Strong mag anom 100X45m, =subcrop of ore (IP interf w graph lmsn)	diss bo-cc-cp, nat cu-cupr in shears in serp; diops, act, talc, serp, chl, gmt	200,000 t @ 1.3% Cu, 0.24g/t Au, 12.3 g/t Ag, 0.008 Mo, (167 000 @ 1.65% Cu)	2 ddh: sporadic low grade below pit 20 000 t (typo?) @ 1.25% Cu (172 000t @ 0.82% Cu) Indic by 1 ddh, zone dips 30 deg NE, 156 000 t @ 0.82% Cu
	Black Cub South open-pit prod	mt-serp skam	lmsn finger, flat	150m N of BCS pit, no o/c	weak mag	native cu-cupr in shears		
	Black cub north	mass mt-serp skam				bn, mt, (cp) in serp-phlog		57 000 t (63 000) @ 1.18% Cu
	Grizzly cub					bn-serp-act-phlog		
	Kodiak cub							
	Railway	mt-act skam	lmsn finger	tip of finger, ore shallow dipping lens, irregular, cut by thick dyke // miner	Mag, low order IP	Partly oxidized cu sulph, val?		625 000t @ 1.01% Cu (3Mt including waste) 689 000 @ 1% Cu
	Gem	mt-serp skam	flat	West of gem	Low IP, no mag (since no mt)	bn, cp, cc, cv (native Au); malach, chrys, py	159 000 t @ 0.95% Cu	Remaining: 202,652 t @ 1.06% Cu (conserv) • Hureau 85: 300 000t @ 1.06% Cu, 0.02 Au, 0.2 Ag
	Kaewenaw	endoskam	Irreg pipe, structure unknown		no mag anomaly, Hilker '88: good mag; Em anom 130' E of showing	diss bn+cp, minor mt, hem		
	Open-pit mined	skam	10' wide, vert at lmsn/granodior		no mag or EM response	minor cp, bn		
	Copper Cliff				mag high and low, pulse EM	discontinuous minor bn, cp, mt		
	25' addit in 1900				broad, low intensity IP charg, anom	erratic, massive mt, bn, cp, val in mt-serp-phlog and garnet-diops-epid skam		
	McIntyre							
	Pass Lake		small lmsne o/c near granite					
	North star	serp-act and high grade silicate skn in dolomite	pendant E of main contact, size unclear, poss 1700' strike length best miner at base: 1400-1800' deep showings at SE end of embayment of seds	FW zone: Limestone/quartzite contact, 3-400' from intr. flat to shallow dip, irregular intrusive contact structure of pendant unclear	Strong mag + IP	cp (no bn), asp, py, po, mt, aug, gnt, cc, hem in serp-gmt-trem-act skam, Ga, Pt, Pd	127 t	Low grade Cu, poss large ton 400 m below surf indicated: 800 000t @ 1.5% Cu in FW zone (sec. 32+36) ore grade. 1.65% Cu, 0.58g/t Au (representative assay)
	Valerie	serp-act skam	narrow	3-5m X 60m, vert				
	Old u.g. workings	dolomite host						
	West of Valerie							
	Little Chief	mt-serp skam	pendant	Ore at qtzite/lmsn (barren skn) contact, conform	Mag, EM-16, IP anomalies	Skn qtzite: apple green diops, py, loc cp. Skn: bn, cc, cv, cp, val, cupr, mo, nat. cu, py. Tr Au, ag, mo, Ga, Pt, Pd. Ag in solid sol w Cu sulph	u.g.: 7.25 Mt @ 1.5% Cu, 0.75g/t Au, 9.16g/t Ag o.p.: 1,126 500 t @ 1.28% Cu	undiluted underground res.: 2.3Mt @ 2.52% Cu 1978: ore at 2000 level, conservative undiluted reserve grade: 0.04opt Au 1/2 Mt @ 2% Cu proposed ddh for open pit.
	Open-pit and u.g. prod	dolomite host	Largest ore body, dip 70 NE	Bound and modif by fault				
	Underground reserves							
	Middle chief, prod		Offset portion of LC, shallower, dips to E		Mag	bn, cp, mt, val, py, po in serp-phlog-trem-gnt skam		
	fault offset of Little Chief	dolomite host	grades and depth of skam decreases towards N			Ga, Pt, Pd		
	Big chief		Shallower than LC	Straddles Valerie anticline	mag	bn, cp, mt, val, cc in serp-phlog-gnt skn. Ga-Pt-Pd		
	Polar	fault						
	Suburban					cp, py, chrysocolla		
	Arctic chief, prod	Mass mt-diops skn	good grade: small zone W side of pendant	W pit: skn at lmsn/dior; E pit: steep w-dip	mag	cp, mt, bn, val, (mo) in serp-phlog-gnt skam	298,993 t. Most recent: 201 800 t @ 1.44% Cu, 1.03g/t Au, 17g/t Ag	Drilling ind. significant additional ore unlikely? 1500
	early u.g., 2 open pits	dolomitic host	irregular mass, small deposits, pendant 2X size of L.C.	In lmsn, cut by N dipping dyke		bn, cp, mt, val, cc, telr., py, cupr, Ga, Pt, Pd ore ls in diops-cc and mt exoskam		
	Verona				mag anom 250X 100'	bn mt, (cp, mo, Ga)		
	(Grafter to Pueblo)							
	Grafter							
	Shaft-high grade prod	low Fe? dolomitic host	complex dior contact, N-trending, steep W-dipping along GW		N-trending IP coincides w miner. no significant magnetic signature	cp, mt, py, cupr (bn, mo) in garnet-trem-serp skam	12 200 t @ 6% Cu	av. assays: 0.5-3.1% Cu and .026-.06 Au / 3.7-19
	Best chance	massive mt-serp skam	Unresolved structure, W dip? complex dior contact					
	High grade prod near surface	dolomitic host			strong mag, N anom dips to W	cp, bn, mt (val, cc) in trem-act (serp-phlog) skam		Early NIM drilling: 270,000 t of low grade (1%) open pit table
	Retribution	dolomitic host			IP charg, high northwards to Spring Ck	Ga, Pt, Pd		Watson: 447 000t @ 0.71% Cu
	Empress of India (u.g.)	limestone host, low Fe?				bn, cp, hem in gnt-act skam		
	Spring Creek	limestone host				cp, scheel (bn hem, mo, py) in wol-gnt skam		
	Pueblo		Steep (E) dip, lenses on contact, N plunge, 300-500' X 100'	In crushed limestone, clay gouge	No mag, weak IP	mass specularite, abundant oxides (mal, chrys, cupr+az), only diss bn cp as sulph	produced 200,000 t @ 4.5% Cu	drill indic? (1935) additional ore NW of old workings 2 lenses above 300' lev
	Largest mined -WW1, open pit and underground					Ga, Pt, Pd in wo-trem-gnt skam		
	Gulch							
	Reservoir Lake	sheeted Vq in hbl dior				bn, mo		
	Scheelite	Vqz-carb-scheel in intr				cp, mo, scheelite, malach in Vqz-carb		
	Copper King					cp (bn, mt, mo, sch) in garnet-act-trem-wo	5300 tons, 1.47% Cu, 0.17 g/t Au, 15g/t Ag, 0.21% Mo (repres. assay)	
	underground prod.					bn, mo, (cp), sch in garnet-trem	907 tons, 3.58% Cu, 0.34 g/t Au, 51g/t Ag (repres. assay)	
	Carlisle							
	underground prod.							
	anaconda		pendant 1200X 500', E plunge			bn (cp-hem-mt) in wo-gmt-trem skm		
	Rabbit's foot	silicate skn	100' X 30' skam			bn pods +stringers, cp		
	War Eagle	Banded silicate skam	Disc. Lenses. Largest skam: 3000' X 300'	Limestone in FW of ore		wo-ep-(mo)-gmt-augite-scheel		
	North and south pit prod					banded gmt-diops-wo, trem, act, no Fe ox nor serp.	o.p.: 900,000 t @ 1.25% Cu, 0.22g/t Au, 8.57g/t Ag and 0.005% MoS2. F.M. Smith: 0.038% MoS2 (early u.g. 900t @ 5.7% Cu).	unblasted miner in bottom of north pit
	underground					mo-cp-bn (mt)		
	N of WE					relatively high Rhenium in mo		
	tailings	gold and magnetite						10Mt tailings @ 0.2% Cu, 20% mt, and at least 1500 kg Au 1995: 0.02% Co. auger assays from 0.17 to 0.34g/t Au
	MISC:		airborne mag 141F 3 km ESE of Cowley corresponds to lmsn/clastics transition but far from intrusive contact					
			airborne EM 2 km SE of North Star conductor on flank of weak mag h/gh. Dior 300m S of conductor					
			airborne EM 148D to SW of Rabbit's F possible limestone/sillstone contact					

Andra
large of may be
L.S.S.
shut down June 70 low Cu
under debris

