/		COPPER	TERRITORY	Briti	sh Columbia	N.T.S. AREA	104 J/4	REF. CU 2
	NAME OF PROPERT	Y GO (KAKETSA MTN.)			HISTORY OF EXPLO The property is			elevation on
	County Lot Sec OWNER OR OPERAT	RES 200. Lat. 58°12'50" tlin District Township or Parish Concession or Range Tp. R.	Long. 131°47'30" Cassiar		The property is Polar Creek on the s miles southwest of D CU 1). The showings wer Explorations Ltd. in year to The Colorado chemical soil survey Maryland Natural the property in 1971 physical surveys and was changed in 1971 Ltd. The property in 1 GO, G, CU, Car, Bone Canadian Exploration and Global and carrie	outheast side ease Lake. (S e discovered a 1970. An opt Corporation w Resources Cor and carried o trenching. T to Global Natu 1972 comprised , OH, Pat, HO, Ltd. optioned	of Kaketsa Mo see also: GO nd staked by ion was given ho carried ou poration Ltd. ut geochemics he company na ral Resources some 475 cla and Joy grou the property	ountain, 65 - 104 J/4, Skyline h that same it a geo- . optioned al and geo- ame (Maryland) s Corporation aims in the aps. Newconex y from Skyline
	the Kaketsa stock sedimentary rocks. by 2,500-foot zone margin of the stoc along northwester! the stock. Pyrite also found in many to the east and so The volcanic r tuffs and tuffaceo units without any dark green andesit prismatic phenocry l centimetre diame and amphibole. Tu 200 feet thick and grid as a persiste	opper occurrences are know with Upper Triassic volc The main area of inter of weakly pyritic rocks ek. Here copper minerali by trending fractures in and traces of disseminate of the dykes and irregue outheast of the main cont rocks are mainly porphyric bus siltstones. The flow discernible stratification fic to basaltic porphyric rests of amphibole and uran effaceous rocks occur in to outcrop in the northwest and north-northeast to no	anic and related est is within a 6 along the easter zation is localiz a large embayment ted chalcopyrite lar intrusive bod act. tic flows with le rocks form massi on. They are gre s with euhedral, litic hornblende trix of basic and a single unit abo t corner of the s	act of 5,000 m ded in are lies esser .ve ey to up to lesine out survey	diamond drilling in '	/ holes on GO	85-88, and 90	Ι.
	Associated minerals or product	s of value		1	Mineral Dev	velopment Sector, Depar	rtment of Energy, Mir	nes and Resources, Ottawa.

Mineral Development Sector, Department of Energy, Mines and Resources, Ottawa. 511932 *

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1970, p. 32; 1971, p. 48; 1972, pp. 547-549. +



Map 21-1962, Dease Lake, (Geol.), Sc. 1":4 miles.

#Geology of the Pyrrhotite Creek Grid Area; Sc. 1": 500 ft., Fig. 68 - accomp. Geology, Exploration, and Mining, 1972, British Columbia Dept. of Mines.

*Map 104 J/4 W, Kennicott Lake, (Topo.), Sc. 1:50,000.

REMARKS					
	-11	 	 	 	
Comp./Rev. By	DMacR				

BCI 104 J - 18,20,21,23,24

BCI - 104 J - 18, 23, 24, 29, 21

Card 2 British Columbia PROVINCE OR N.T.S. AREA 104 J/4 PRODUCT REF. CU 2 COPPER TERRITORY DESCRIPTION OF DEPOSIT (continued) GO (KAKETSA MTN.) NAME OF PROPERTY showings a series of subparallel or interconnected fracture and shear zones and thin bands of mylonite have localized DESCRIPTION OF DEPOSIT (continued) mineralization in a 200 by 300-foot area. Chalcopyrite is with 60 to 75-degree dips to the west. Fossils collected by the seen as fracture fillings and fine-grained replacements in Geological Survey of Canada (Map 21-1962) show the rocks to be the fractured volcanic rocks and margins of dykes within Karnian (early Upper Triassic) and thus correlative with the the zone. Chalcopyrite is frequently accompanied by Stuhini Group. patches, fracture fillings, and stringers of specular The Kaketsa stock is an elliptical intrusion some 2.5 by 3.5 hematite and magnetite. Along strike from the main zone to miles in diameter. It is only slightly younger than the volcanic the northwest and in a number of other localities, mineralipile it intrudes. The stock and related dykes in the area of zation is more vein-like in character with siliceous zones interest are mainly medium-grained hornblende diorite with a in the highly fractured rocks containing impregnations of foliated appearance caused by preferred orientation of hornblende fine-grained magnetite and patches or grains of chalcolaths. pyrite, pyrite, sphalerite, hematite, marmatitic magnetite, Minor intrusions related to the Kaketsa stock intrude siderite, and possibly marcasite. volcanic rocks to the east and southeast of the main stock. They form dykes and irregular masses separated by screens and small roof pendants of volcanic rocks. Two other groups of dykes were recognized: an early suite related to the volcanic rocks and a later suite of monzonite and syenite intrusions that may be late differentiates of the main diorite magma. The early dykes are diorite to diabase in composition and intrude randomly as thin bodies with no preferred trends. The younger dyke suite consists of diorite to quartz diorite and leucocratic grey and pink porphyritic dykes of monzonite and syenite. Syenite dykes along Polar Creek and to the east are a few feet to tens of feet wide but nearer the contact of the stock K-feldspar-bearing dykes are generally thin. Near the contact they range in composition from syenite to aplite and form vein-like structures of coarse K-feldspar with minor quartz and epidote. These aplite and K-feldspar-bearing dykelets, together with injections, veins, and fracture replacements may be regarded as a type of alteration. Most commonly the alteration is seen as thin, widely spaced K-feldspar-flooded fractures that also contain epidote and minor quartz, siderite. calcite, and sulphides. Otherwise alteration is generally weak and is indicated by a greenish colouration in the volcanic rocks caused by dispersed epidote, chlorite, actinolite, and magnetite that occurs mostly along fractures. Sulphide mineralization is widespread as fracture-controlled pyrite in volcanic rocks and disseminated pyrite in diorite dykes. Chalcopyrite occurs in trace amounts with pyrite but higher copper grades are localized in steep, predominately northwesterly striking fracture zones. In the area of the main

continued above ...