

TR5. 60-62

## DENISON COPPER PROSPECTS— WESTERN PORT DAVEY

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### LOCATION

The copper outcrops are located along the sea coast in Davey and De Witt quadrangles, one and one quarter miles north of Trumpeter Islands and approximately two and a half miles west of Kelly's Basin. There are two outcrops in the south and one outcrop to the north.

### ACCESS

These deposits can be reached from Bond Bay as there is no approach from the sea. The outcrops are a few feet above sea level.

### GENERAL GEOLOGY

Three distinct formations occur in this locality. The oldest is the coarse schists which are mostly re-crystallized to mica and mica garnet schists by contact metamorphism. Where mineralisation has occurred sericite schists predominate.

Overlying the coarse schists are schistose phyllites, phyllitic schists, sandstones, quartzitic sandstones and quartzites. These rocks are barren. Basic dyke and sill intrusions have been observed in this formation. They seem to be restricted to the schistose portions and are elongated in the strike direction of the schistosity.

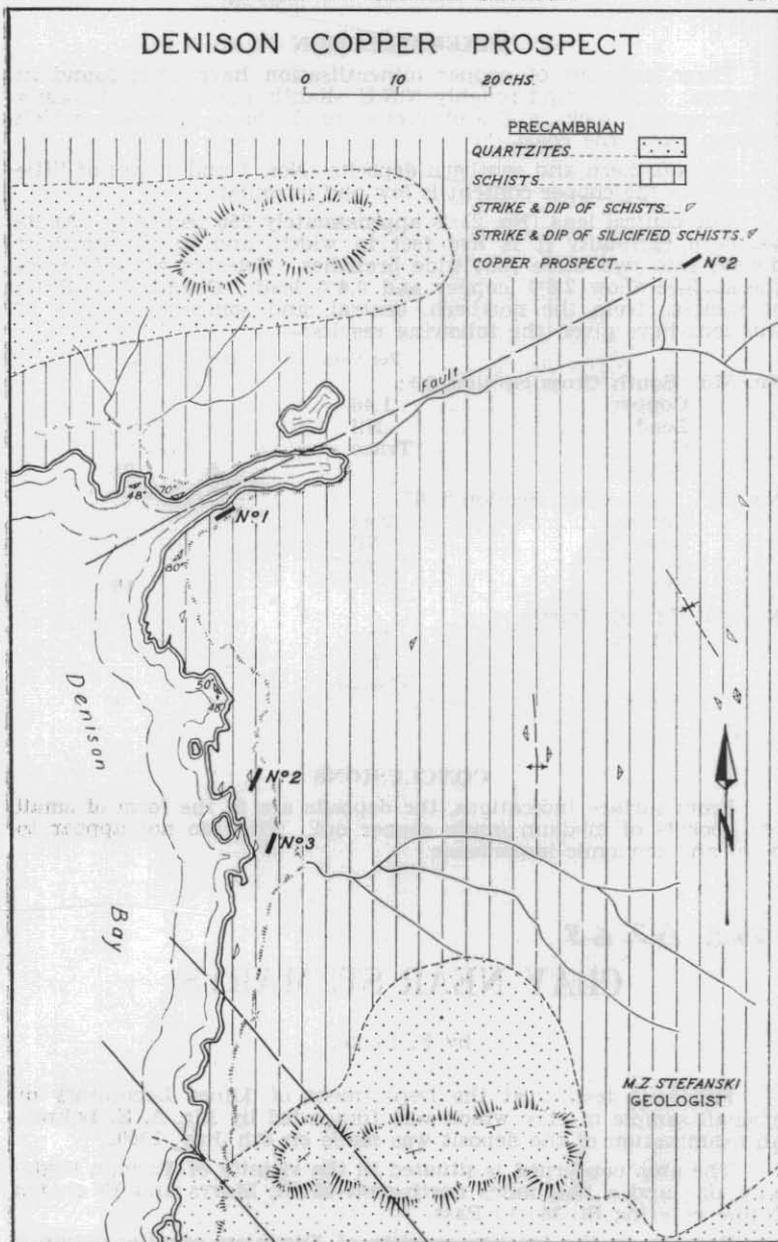


FIGURE 10.

5 cm

**MINERALISATION**

Three outcrops of copper mineralisation have been found in the area. These trend roughly N.N.E. slightly across the schistosity of the country rocks, and are all close to the basic intrusions which outcrop along the coast.

The northern and southern deposits (Nos. 1 and 3) are of little interest as the copper content is low and irregular.

The central lens (No. 2) is approximately 250 feet long. At its southern extremity it is five feet in width, and to the north it divides into two three foot wide branches. Selected samples from the surface show 2.6% copper and 0.4% lead. Chemical analyses of samples from the northern, central, and southern sections of this lens have given the following results:—

	Per Cent	Dwts.	Grs.
No. 570 (South Cross Section 3'):			
Copper .....	1.46	.....	.....
Lead .....	Nil	.....	.....
Gold .....	Trace	.....	.....
Silver .....	.....	5	21
No. 571 (North Cross Section 2' 6"):			
Copper .....	2.42	.....	.....
Lead .....	Nil	.....	.....
Gold .....	Trace	.....	.....
Silver .....	.....	8	15
No. 572 (Middle Part):			
Copper .....	1.12	.....	.....
Lead .....	Nil	.....	.....
Gold .....	Trace	.....	.....
Silver .....	.....	4	4

**CONCLUSIONS**

From surface indications, the deposits are in the form of small ore pockets of medium grade copper ore. They do not appear to be of any economic importance.