

92B/5E
92B-7,8,9,10

PROPERTY FILE

EAST SOOKE (48° 123' SW)

During the spring of 1951, about fifty mineral claims on the Sooke Peninsula were re-located by A. and H. Stretton and W.M. Cooke of Victoria B.C.; Frank & Cooke of Burnaby B.C.; and Wilfred A. Gray of Port Arthur^{Arthur} Ont. Between May 10 and Nov 22, exploration in the form of magnetic and electromagnetic surveying, geologic mapping, and diamond drilling of selected areas was carried on under the immediate direction of P. A. Chubb of Whitby Ont. Shear zones which cut the East Sooke gabbroic intrusive were delimited by the geophysical surveys and areas in the shear zones which appeared favorable for copper mineralization were drilled.

Descriptions of several of the mineralized zones appear in the B.C. Minister of Mines Annual Report for 1948 (pp162-170), and only ~~this~~ recent developments will be described here.

Merryth Zone

The Merryth zone, at the south end of Iron Mine Hill, was explored geophysically and by diamond drilling. Sulphide-bearing hornblende ~~of the mineralized zone~~ ^{south} of the Merryth zone is exposed on the shore of the peninsula in the form of a narrow, southward-trending promontory bounded on the east and west by chasms eroded by waves along shear zones. Five holes were drilled to intersect the zone beneath the sea south of the mineralized exposures on the promontory. No.1 hole, drilled westward, down at 55 degrees, intersected a sulphide-bearing zone an estimated 50 to 150 feet below sea level beneath the south end of the promontory. No.2 hole, drilled southwestward, down at about 45 degrees, cut a similar zone at about the same depth, 150 feet south of No.1. No.3 hole, drilled westward, down at 55

degrees, cut a sulphide zone at a depth of 150 to 200 feet below sea level, 300 feet south of No.1. Two other ~~holes~~ drill holes (No.11 and 12) cut altered shear zones about 600 and 800 feet south of No.1 hole. The altered shear zones in these two holes, however, contained very little sulphide. In No.1 hole, about 100 feet of sulphide-bearing core was obtained, in No.2 about 50 feet, and in No.3 about 100 feet. In the parts of these cores containing sulphides, pyrrhotite and altered gabbro are cut by ~~fair~~ fine veinlets of pyrite and chalcopyrite. Magnetite is locally abundant both disseminated throughout the gabbro and in veinlets associated with the sulphides. The grade of the copper mineralization appears to be about the same as that on the promontary.

Main Valley Zone

The prominent northward-trending valley east of Iron Mine Hill appears to be the surface expression of a drift-covered shear zone. It has been termed the Main Valley zone. Small amounts of sheared and altered gabbro are exposed at the north and south ends of the valley. Magnetometer and electromagnetic surveys of most of the valley were made, and on the ~~basis~~ evidence obtained from the ~~33~~ ³³, one hole was drilled near the south end of the valley about 700 feet from the sea. The hole intersected about 30 feet of altered gabbro, but showed no copper mineralization.

Hill Zone

Copper mineralization was ~~not~~ explored many years ago by a short adit and an open pit ^{on} and the northwest side of Iron Mine Hill ~~to~~ about 500 feet north and 200 feet east of the end of the East

~~Sooke public road. Electromagnetic, magnetome~~

Sooke public road. Electromagnetic, magnetometer, and geologic surveys, during the summer of 1951, disclosed that the mineralization lies in a northward-trending shear zone, known as the Hill zone, ^{which extends} ~~extending~~ about 1000 feet north from the workings to the sea and probably about 200 feet south of the workings. Three drill holes, No.1 40 feet north of the adit, No.2 450 feet north of the adit, and No.3 800 feet north of the adit, were drilled eastward into the hill, down at about 45 degrees. All three intersected sulphide-bearing, altered gabbro; No.1 from footages 27 to 129, No.2 from 138 to 158, and No.3 from 121 to 160. Most of the sulphide-bearing core appears to contain less chalcopyrite than core from the Merryth zone. Mineralization ^{of} ~~in~~ the altered gabbro is similar to that of the other zones, pyrrhotite being cut by fine veinlets of pyrite and chalcopyrite. In places fine flakes of native copper are present, and magnetite is locally abundant.

Cooke Zone

Old workings on the Willow Grouse and Blue Bird mineral claims, northwest of Mt McGuire, exposed copper mineralization in shear zones adjacent to a narrow, southwesterly-trending valley. The valley is thought to be the surface expression of a major shear zone, known as the Cooke zone. ^mMagnetometer, electromagnetic, and geological surveys were made of the valley, During the summer of 1951, from the shaft on the Willow Grouse claim 4500 feet southwest along the valley to within 350 feet of the Main Valley zone.

Two holes were drilled near the ~~main work-~~^{shaft}
~~ings~~ to test the main shear zone beneath the drift-
covered , valley bottom. No.1, about 100 feet south
of the old shaft, was drilled north 25 degrees
west , down at about 55 degrees to a footage of
195 feet. It intersected a little altered gabbro
and no sulphide-bearing zone. No.2 hole, about
170 feet south of the old shaft was drilled south
25 degrees east, down at about 45 degrees. ~~Through~~
Throughout its length of 100 feet the core was
relatively unaltered gabbro containing no sulphides.

James J Fyles.

92B/5E
92B-7,8,9,10

- 1 -

CLAIMS STAKED ON SOOKE PENINSULA

H. H. Nos. 16 to 22 (5396/5402 Jan.)

Metal Tags A35544/50

Locator - Margaret Huestis

Bill of Sale April 16, 1948 to Sanford S. Woodside.

G. J. Nos. 1 to 8 (5403/5410 Jan.)

Metal Tags	G. J. No. 1	A35941
	G. J. No. 2	A 35930
	G. J. No. 3	A 35933
	G. J. Nos. 4 to 8	A 35934/38

Locator - Bert Goodridge

G. J. Nos. 9 to 14 (5411/5416 Jan.) and Xmas Nos. 1 and 2 (5417/18 Jan.)

Metal Tags	G. J. Nos. 9 & 10	A 35939/40
	G. J. Nos. 11 to 14	A 35907/10
	Xmas Nos. 1 & 2	A 35911/12

Locator - E. B. Johnson

M. H. Nos. 1 to 8 (5350/5357 Dec.)

Metal Tags	M. H. No. 1	A 32333
	M. H. No. 2	A 32331
	M. H. Nos. 3 to 8	A 32356/61

Locator W. M. Cooke

F. M. Nos. 1 to 3, F. M. No. 5 Fr. and F. M. Nos. 6 to 8 (5358/64 Dec.)

Metal Tags	F. M. No. 1	A 32355
	F. M. No. 2	A 32354
	F. M. No. 3	A 32353
	F. M. No. 5 Fr.	A 32351
	F. M. No. 6	A 32329
	F. M. No. 7	A 32332
	F. M. No. 8	A 32334

Locator - Frank Merryth

H. H. No. 1 Fr. and H. H. Nos. 2 to 8 (5365/72 Dec.)

Metal Tags	H. H. No. 1 Fr.	A 32368
	H. H. No. 2	A 32367
	H. H. No. 3	A 32366
	H. H. No. 4	A 32365
	H. H. No. 5	A 32364
	H. H. Nos. 6 & 7	A 32362/63
	H. H. No. 8	A 32330

Locator - H. H. Huestis, 2566 Sussex Ave., New Westminster, B. C.

PROPERTY FILE

G. G. Nos. 1 to 8 (5373/80 Dec.)

Metal Tags	G. G. Nos. 1 & 2	A 32349/50
	G. G. Nos. 3 & 4	A 32347/48
	G. G. Nos. 5 & 6	A 32345/46
	G. G. Nos. 7 & 8	A 32343/44

Locator - George R. Griffith

Emdyk (5381 Dec.) and F. C. Nos. 2 to 8 (5382/88 Dec.)

Metal Tags	Emdyk	A 32376
	F. C. No. 2	A 32342
	F. C. No. 3	A 32340
	F. C. No. 4	A 32339
	F. C. Nos. 5 & 6	A 32337/38
	F. C. Nos. 7 & 8	A 32335/36

Locator - Frank Cooke

H. H. Nos. 9 to 13 and H. H. No. 14 Fr. (5389/94 Dec.)

Metal Tags	H. H. Nos. 9 to 12	A 32377/80
	H. H. No. 13	A 35551
	H. H. No. 14 Fr.	A 32381

Locator - Mrs. N. V. Cooke

B and V Fr. (5419 Feb.)

Metal Tag A 35386

Locator - Bertram T. Hill, 1209 Olderman Road, Victoria

F. M. No. 8 (5421 Feb.)

Metal Tag A 37572

Locator - Frank Merryth