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MINFILE / pc
MASTER REPORT

GEOLOGICAL SURVEY BRANCH - MINERAL RESOURCES DIVISION
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

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REPORT: RGEN0100

888726

Tsacha

MINFILE NUMBER: 093F 055

NATIONAL MINERAL INVENTORY:

NAME(S): TSACHA, TOMMY

STATUS: Prospect
NTM MAP: 093F03E
LATITUDE: 53 01 28
LONGITUDE: 125 01 53
ELEVATION: 1150 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Largest vein (Fieldwork, 1993).

MINING DIVISION: Omineca
UTM ZONE: 10
NORTHING: 5876700
EASTING: 363750

COMMODITIES: Gold Silver Copper

MINERALS

SIGNIFICANT: Pyrite Chalcopyrite Tetrahedrite
ASSOCIATED: Quartz Calcite Barite
ALTERATION: Silica Hematite Malachite Clay Sericite
Carbonate
ALTERATION TYPE: Silicific'n Oxidation Argillic Sericitic
MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein Stockwork
CLASSIFICATION: Epithermal
DIMENSION: 650 x 150 x 8 Metres STRIKE/DIP: TREND/PLUNGE:

HOST ROCK

DOMINANT HOST ROCK: Volcanic

STRATIGRAPHIC AGE

Middle Jurassic: Hazelton Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Rhyolite Flow
Rhyolite
Rhyolite Tuff
Ash Flow Tuff

HOST ROCK COMMENTS: Informal Naglico Formation.

GEOLOGICAL SETTING

TECTONIC BELT: Inermontane PHYSIOGRAPHIC AREA: Nechako Plateau
TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE

CATEGORY: Assay/analysis YEAR: 1993
SAMPLE TYPE: Grab
COMMODITY GRADE
Silver 34.8000 Grams per tonne
Gold 3.3000 Grams per tonne

COMMENTS: Sample from largest vein.
REFERENCE: Open File 1994-2.

(at least 8)

CAPSULE GEOLOGY

The Tsacha occurrence consists of several quartz vein and stockwork veinlet occurrences found in the vicinity of Tommy Lakes, about 125 kilometres southwest of Vanderhoof. The veins occur in welded rhyolitic flows and lesser ash-flow tuff (unit M7M1) of the Middle Jurassic Hazelton group (informal Naglico formation).

The occurrences were discovered during regional mapping by crews from the B.C. Geological Survey Branch in 1993. The Tsacha 16-unit claim block was staked by Teck Corporation in 1994 to cover these showings. Teck conducted soil geochemistry, prospecting, trenching and rock chip sampling in 1994. Work confirmed 4 veins and a vein-stockwork zone.

The main vein (Tommy) trends north, dips vertical to steeply west and has been traced for 600 metres and remains open along strike. The vein is typically less than 1.5 metres wide. The quartz is white, finely crystalline to massive, rarely banded along vein margins with drusy crystals growing inward toward the centre of some anastomosing veinlets. Sparry calcite sometimes occupies a void at the centre of the banded veins. Pyrite is present in trace amounts. Alteration consists of silicification, hematization with clay and sericite occurring distally. In 1993, a grab sample from the main (largest) vein assayed 34.8 grams per tonne silver and 3.3 grams per tonne gold (Open File 1994-2). Values greater than 1 gram per tonne gold have been obtained along the entire exposure of the vein (Cordillera Roundup Abstracts Feb. 7-10, 1995).

Stockwork veinlets are exposed on a knoll due south of the

650

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CAPSULE GEOLOGY

easternmost of the Tommy Lakes. Prominent fractures and brecciated vein material trend northeast. Another system of stockwork veinlets crop out on a knoll near the centre of a recent forest burn, northeast of Tommy Lakes. These quartz veins are similar to others south of Tommy Lakes, however, they also contain crystalline barite.

In 1994, Teck conducted geological mapping (1700 hectares); rock (207 samples), silt (11 samples) and soil (413 samples) geochemistry; and trenching (17 trenches).

In 1995, Teck completed 5200 metres of drilling in 35 holes and some trenching. The Tommy vein has been traced along strike for 650 metres, over widths ranging up to 8 metres, and down dip to approximately 150 metres (Information Circular 1996-1, page 22).

BIBLIOGRAPHY

- EMPR ASS RPT *23881, 24369
- EMPR FIELDWORK 1993, pp. 9-24, *25-26, 27-44, 45-55; 1994, pp. 167-170, 177-191, 193-197
- EMPR INF CIRC 1995-9, p. 22; 1996-1, p. 22
- EMPR OF 1994-2; 1994-9; 1994-10; 1994-18; 1994-19
- EMPR EXPL 1992-69-106
- GSC P 90-1P, pp. 115-120
- GSC MEM 324
- Cordillera Roundup Abstracts Feb. 7-10, 1995, p. 42

DATE CODED: 940510
DATE REVISED: 950313

960729

CODED BY: IW
REVISED BY: RAL

TGS

FIELD CHECK: Y
FIELD CHECK: Y

Needs update from: a) Explore B.C. 1995;
b) Interior Plateau Project Summary
(in press) by Lane + Schroeter;

[Note: The adjacent Tam (93F068) and Taken (93F056) claim groups (west and northwest respectively) host ^{mineralized} quartz veins of the same character as the Tsacha veins i.e. all related to the same system (approx. 2 km wide)].