

Mike Casselman Tulsequah Chief

89/12/8

Camp at 5400[±] level

1951-57 production

1987 - New program -

Past Prodn

1 good silver Pb Zn Cu

G + AB lenses found

Geol Res → 3600 level

5.8 MT 08 Cu 2.9 Ag 1.6 Cu 1.3 Pb 7 Zn

VMS Rhy - assoc

Bis Bull Tulseq. Chief Erikson country?

C/R Paleozoic?

Chief Fault - cuts σ p w extension of SW

Bull + Chief separated by faulting? or

one felsic centre

Strike NE - 80 - 85° NW

FW and Munitz Horizon - rhy - dacite

Dac - rhy pyroclastics upper and pyroclastics

Diouite sill/dyke complex

Young Sloko? dykes

VOLL M/S - TULSEQUAH

• FW altn pipe

Rx W of Chuy Fault are different

• ore rel to growth flts - later reactivated

5400 level - 3000' loop

rx strike E dip N

ore series

Lap top with interlayered tuff/ch/mudstone
m/s in muddy-tuff layers

• mineral horizon in graben?

A + B deposits - graben

E + G outside

G lens -

Extension of discovery lense

Two sulph sheets AB, EG
N dip / W dip

And - amygdules - chl away from ore
alt pipe (senate) quartz (seriate) phlogopite (cordierite) chl
alter and (and)

Correspondence/Notes

Tulsequah Chief Cominos / Redfern
60 40
now changing Redfern to have 100%
65 km NE Juneau

~ 400' asl

Area around deposit 1:1000 scale mapping

Post Prodr 1.029 MT 3.69 @g 0.11 Au
1.59 Cu 1.54 Pb 7 Zn

Inferred new reserves
8 MT

• TC

• Big Reef

N plunging anticline?
pre-Permian?

• Erickson Ashby

Deposit cut on W by Chief Fault

One m lap tuff + cherty tuff - ~~false~~

Diouite = andesite feeders?

Felsic HW

Synvolc growth faults

Central graben

more than 1 strat. level - A, E etc
A + B merge → AB

lenses + bedding are steeply dipping

Correspondence/Notes

RD Ord bro alt

Hw Pac/Rhy CapThuff (seriate)

Banded ~~Seriate~~
Sulphides

Sulphides banded to fragmental
deformed

Kuusko style VMS - analogue Western

Tulsequah cont'd

LT explosive

alt'n → ser LT
py

cherty tuffs; py bands

up to 3 horizons

strong ser alt'n

alt'n halo - wk seriate, local Qtz veins,
up to 5% pyrite

10 - 80% py

sphal gal cpy

bar 9Yp tetrahedrite

ore - locally fragmental

- syn-ore slumps?

Typical Volc - rhy-related MFS

analogue HW