

26/08/28

Black Dome Deposit

The office is at the mine

Epithermal / Gocena rocks

Veins NE strike / steep

vein 1 Dip 50-60° NW

" 2 Dip 60-65° NW

other veins ill-explored, steep eastward

Gold + Silver in Gocena rocks but there is a post - ore basalt & cap on Black Dome mtn

Basalt column

~300m upper andesite [dike → and] includes the 'dactic dome'

75m → Rhyolite (flows, tuffs); local and flows pinches to the north

Lower Andesite

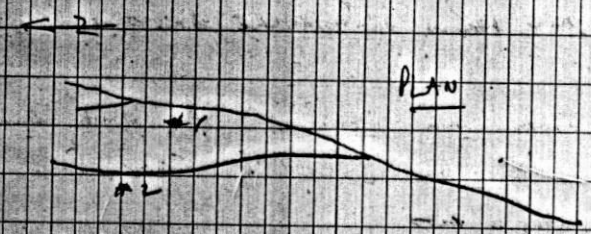
Andesite package ~1500m total thickness (check →)

Flat-lying ~20° on line dips

NE ft - dip slip ~25m (10-35m) possible strike slip (not sure)

X ft - displaced S block down ~35m.

Close to centre but not identified



And dykes cut & altered by ore

x1 + x2 veins

Andesite also occurs as dykes - tricky to distinguish

Ore system

top ~2100m - bottom ~1850m

Ore mostly dies out ~1930m

actn its veins narrower

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Long. section, #1 vein

(ORE) Qtz vein stockwork, shoots, pods
along fault

1/2 - 3 m wide shoots

12 - 60 m (avg 25 m) strike length

75 - 80 (avg 90) m down dip

no preferred plunge seen

Duffs @ 1920 + 1960 m elevations
(no ore grade to date)

ORE gold, ^{silver} ~~silver~~, electrum, pyrite
- silver selenium sulphide
- silver selenide.

(univ. of alba student - microprobe)

Accessory: cpy cct galena (minor sphal)

NO zoning recognized yet

Reported tetrahedrite / etc

Ag₂Se (Se, S)
nam
Ag₂Se¹³
ag

Pyrite in veins + wall rocks
Cpy in veins, 'random'

Altn silicification most important

1-3 m
Qtz spherules / spherules
get more abundant
propylitic
weak deqs.
on wall rock
- may be absent
50-90% Qtz bx, vesicles
clay altn / bleaching of wall rock
fragments
cherty silicification

clay - illite, montmorillonite, kaolinite

Qtz vein stockwork - narrow to 2 m

Rhyolites have botryoidal Qtz spherules, often
with hollow cores - follow bedding -
spherules - textures very
(pisolites?)

Berlin P. - identified by student
[Eclisier] - in CR.

NO sulphates recognized

Qtz veins - fairly large cavities, lots of
wry to a few depths
- often filled with rock clasts or mud
- NO rhythmic banding

Gold

cg x15 - no sand

sugary gtz - base mineralization

Gold + silver in siliceous breccia also

~~1/2~~ x15
~~1/2~~
~~1/2~~

sugary gtz + pale & black mineral
(Ag-sulfides?)

Homog 275°C low salinity (almost null)
-315°C 0.7-2.0 wt % NaCl
low CO₂ system
oxygen isotopes - meteoric water
50‰ O-18 - 1.78

dore bars ~50-75% silver

Heads running ~0.7 oz
Au/Ag ratio 1/~4 variable

Daily Tonnage 130-150 tons/day

Recoveries low 90's Au
" 80's Ag

Mill - mainly gravity - no cyanide needed

STOP-1

#1 vein. Trench strike 040°

ore from ^{low} vein - orange

STOP 2 #1 vein

Graben measured at due to fill

values ~ 88 gm/ton 20 m long
~5 m wide

General ground gtz remaining + siliceous

ore anom in As 86

Pb Zn Cu

CR - pyroclastic rhyolite

ore zone - chlor clay alter / siliceous

gtz stockpile, limonite alter

FR - rhy

HW upper andesite

- hard -

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Underground Tunnels

South portal 1960 level

Vein hosted by rhyolite here

Portal - porphyritic rhyolite

3 Sublevel stopes shoot
averages > 60 gm/tonne
over 124' strike length

sheared by ore shoot. Site Bxt 6

Ch had not seen

Cg grt xls had gold in
'wires' in xl terminations

Along drift

RW has gtz, bx & veins

From flow banded rhy to

lap tuff w. altered clasts

pellicles decreases quickly
away from the vein

Lap Tuff is base of
rhyolite unit