

12 Maps - GSC

George Addie

Peter Reid

- George Addie - Oct. 28/86

GOLDFINCH

- Lardcan Gr. - PE age

Au in gtz in argill. - phyllites

1000 ft. strike

365 ft. depth

Mariposite?

width - 5 ft. plus
up to 10 ft.

up to 50% py
av. 3% py.

Intense folding - graphite correl. Au

- fault - shear vein - tension veins

Source - hydrothermal?

no igneous rx. (buried?!)

best values

- no brecciation

d. - Muddy Lk.

FAME '87

GOLDFINCH / INDEPENDENCE
(CAMBORNE 'CAMP')July 30/87
Sunny 25°C

ACCESS: ~ 1 hr. drive north from Nakusp - paved to near
jct. of Trout Lk. rd. + logging road (gravel) to Beaton + Camborne

Personnel: Bill Fuhr (Granges - ex-Sulphurets (Essa)), Pat DeBeaux (Granges)

NTS: 82k / 13E

MT - 82k / NW / 076 Goldfinch CG L 5654
82k / NW / 073 Independence CG L 12480

Location: ~ 50 miles SE of Revelstake, on west side
of Incomappleux River; elev. of Goldfinch
gold zone ~ 3200 ft. to 3600 ft.
- NE side of Menhenick Ck.

1986 work: 61 ddh = 20, 231 ft.

HISTORY: First Au. claim staked on EVA claim in 1899

1901 - Goldfinch worked

1903 - 10-stamp mills erected - Eva + Oyster Criterion

1904 - Forest fires threaten 'camp'. - Goldfinch surface
equip. - partially destroyed + Eva also.

1906 - Eva (~ 1000 tons/month) + Goldfinch recommenced
- Burnière staked

1900 to 1909 - town of Camborne - up to 500 people
→ lack of engineering + mining knowledge = losses + closures

1982: Took ~ 300 tons of ore from u/g on lower level (1940m) which
yielded ~ 100 ounces of gold.

1980's - claims assembled as a 'package' by
Windflower Mining Ltd. (Gerry Ryznar)

1986 - optioned to Granges

REGIONAL GEOLOGY: - Metaseds. + volcs. of the
Lardeau Gp. (Paleozoic age) → lower Cambrian to Middle Devonian or older
- regional NW trending fault structure + SE
along NE side of Trout Lk. - ~~more or less~~

→ numerous prospects along trend including: Silver Cup, Spider,
+ True Fissure.

[OVER]

PROPERTY GEOLOGY

- Lowett andesitic volcanics overlain by Broadview phyllites.
- major structural break (or shear) NW to SE - more or less following the contact between the metased. Broadview Fmn. & the predominantly volcanic Lowett Fmn. (incl. lapilli tufts.)

SILURIAN THICKNESS (min.) BROAD VIEW FMN. $\equiv$ Horsethief Creek Gp. i.e. allochthonous emplacement

> 50 m

Phyllitic member: lt. to mt. grey, laminated phyllites (forms topographic lows)

~ 75 m

Graphitic Argillite: laminated with interbeds of limey argillite and dolomite

> 150 m

Limey Argillite: lt. grey, laminated - mixture of argillite $\pm$ dolomite $\pm$ graphite

35 m (to 70° dip)

Phyllitic & Graphitic Argillite: schistose with interbeds of limey argillite

60 m

Rusty Dolomite: contains green mica (mariposite); pinches & swells.

CONFIRMABLE CONTACT

LOWETT Fmn. - mafic^(andesitic) tuffs with minor lapilli tuff.

No Intrusives!

- STRUCTURE: - Major NW trending fault (shear) > 6 km in length.
- Intense, tight, complicated, deformed rocks
 - major recumbent folding to the east (5° to 70°); esp. in Main Zone.
 - 2 prominent directions of str. veining - near vertical & sub-horizontal (tensional). - see sketch
- plunges to SE

GOLDFINCH / INDEPENDENCE (cont'd) (2)

MINERALIZATION: ^{Fissure} Quartz veining varying from ^{very} narrow
qtz. veinlets of a few cm up to veins to 6 m
in width — assoc. with regional fault ± flexure.

Mineralogy: Native gold (yellow), pyrite, minor PbS, ~~+~~
cpy, ZnS, trace tetrahedrite, siderite/pinkerite
- v.g. assoc. with graphitic 'streaks'
- Qtz. veinlets almost a stkwk locally - but
generally strike N25° to N45°W.

MAIN ZONE (Dorothy vein): - structure traced by
diamond drilling over strike length of 1300 ft.
with widths between 6 and 30 ft. Zone tested
to a vertical depth of 300 ft.

350 m (1147 ft.) x 120 m (394') deep ^{plus 125 m north}
^{+ 100 m south}
- Indicated ore: 200,000 tons @ 0.302 Au/ton
- Pyrite is very coarse, grained (looks recrystallized)
+ gold is assoc. with it
- vein(s) strike NW + dip steeply to SW.
- carbonatized (± mariposite) + sericitized-replacement
- Glory Hole with good Au values on surface
- Dist'n of Au values in qtz. veins = erratic
- Lower adit @ 1940 m (~30 m under Glory Hole) + upper
adit @ 1960 m on the Goldfinch vein. (ie. lower
adit on different vein). - Glory Hole fault dips at
65° to NE - 2 types of qtz veins - parallel to
fault (@ 65°E) + near flat-lying ('best' values)
- rare banding of pyrite
- Au - assoc. with coarse py. + also cise v.g.
- distinctive, rusty-weathering carbonate (dolomite)
with 'spotted' + fracture filling green mica (mariposite)
→ alt'd → see pp. 118 - 124 GSM Mem. 161. for
chemical analyses.

EAST ZONE: Drilled for 150 m (492 ft.) - DDH 42
returned 32.2 g Au over 7.77 m (25 ft.)
↓ - good dissem. v.g. ^{in qtz} (not assoc. with cise py).
12 to 30 metres with minor PbS + ZnS + cpy
east of Main Zone i.e. high grade - low tonnage

WEST ZONE: Drilled for 60m (197 ft.) in sulphide-rich (py) zone
 - 3 ddh in 1986
 - cise. pyrite (à la Main Zone) in fault zone in graphitic argillite.

PLUS - Glory Hole - Gold Finch vein to east.

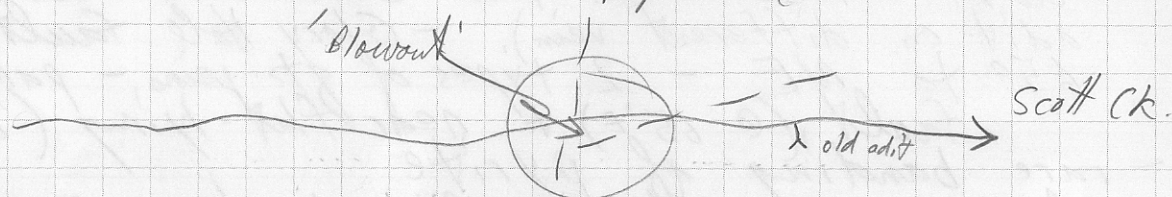
PLUS OPTION ON LUCKY STRIKE ground (from A. Matovich + George?)
 incl. Triune, Eva, Oyster, Criterion, Lucky Jack, Meridian

PLUS recent (1987) option from Eric Denny on BURNIÈRE Gp
 which lies along strike to NW.

GSM Mem. 161-P. 40 "near headwaters of Scott Ck. - gtz. vein up to 5 ft. wide assoc. with carbonatized rk + mariposite
 - V.G. + minor PbS, ~~the~~ cpy, + tetrahedrite
 - Au assoc. with green mica
 - Faulting has offset min. vein by 15 ft. or more.
 - Vein traced 400 ft. + 2 short adits"

PLUS SCOTT CREEK - new (1987), confidential discovery.

- loc. ~ 750 m north of the Main Zone & ~100 m to the east (see sketch)
- similar stratigraphic setting
- series of gtz. veins ± carbonate in Scott Ck.
- intersection of veins = "blowout" of gtz.
- Au (à la Engineer mine 'hubs'?)
- Au assoc. with cise. py. (à la Main Zone)



GEO CHEMISTRY: - Soils for Au work well

- Soil grid on lines 500 m apart + 50 m stations

GEO PHYSICS - ULF-EM + Mag only

- May try IP this yr.

DRILLING: to end 1986: DDH 69

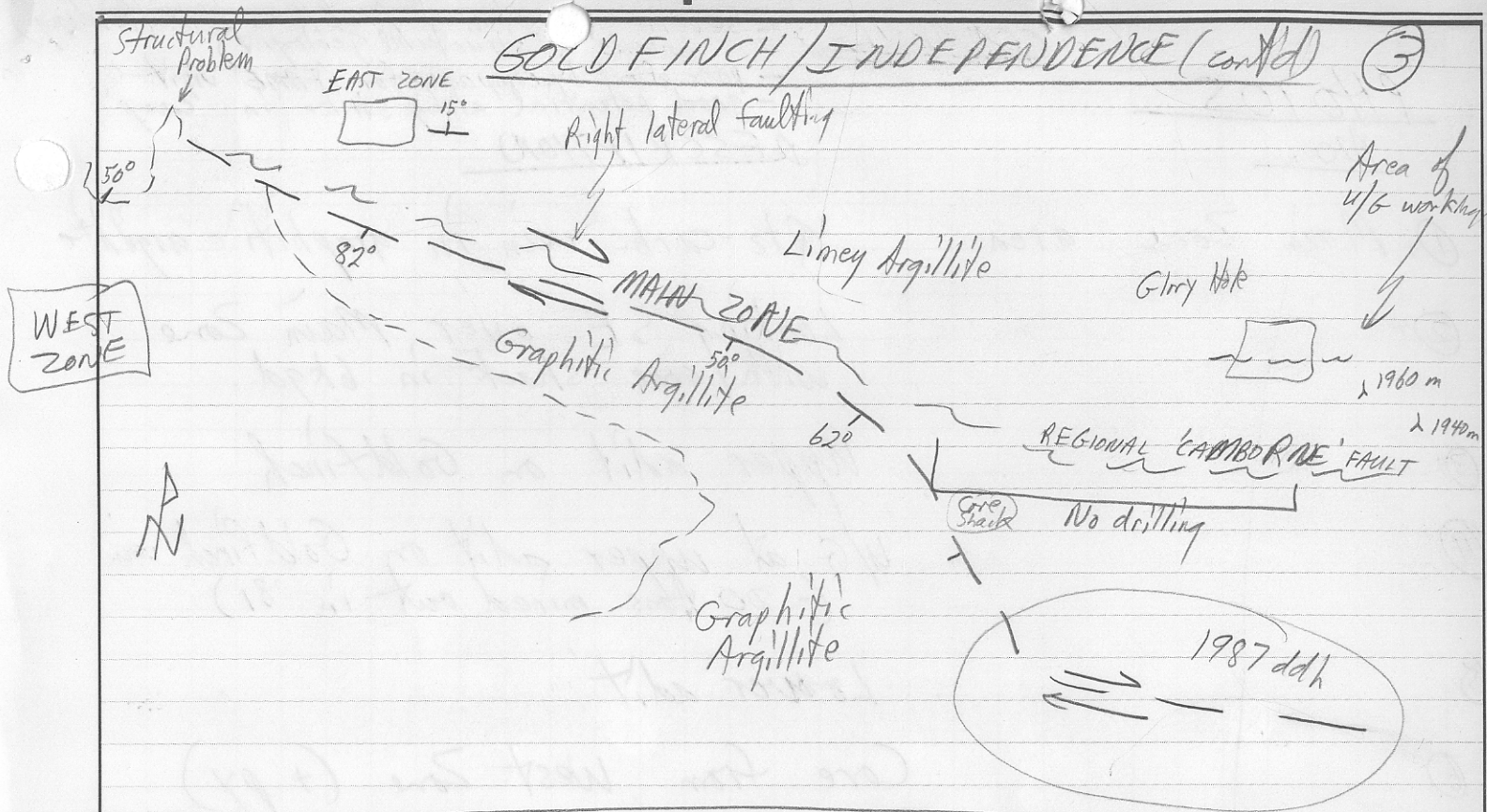
Time of visit - on DDH 84

Confidential DDH 72 (in Main Zone) = 85g Au over 5.55m

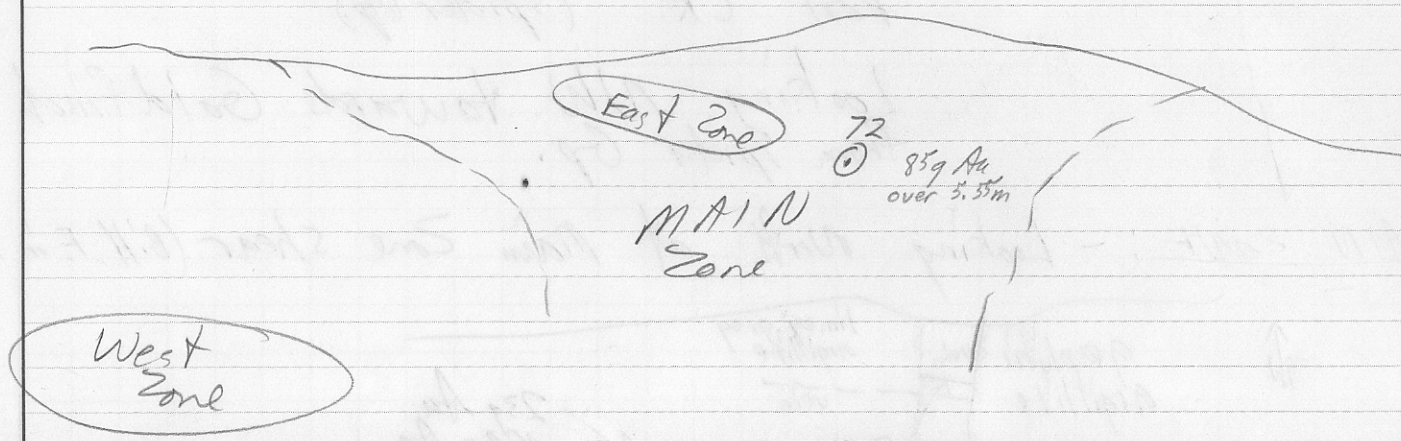
- 2 drills on prop. + 3rd.
 one just arriving
 (eq. < 100 ft. dia)

GOLD FINCH/INDEPENDENCE (cont'd)

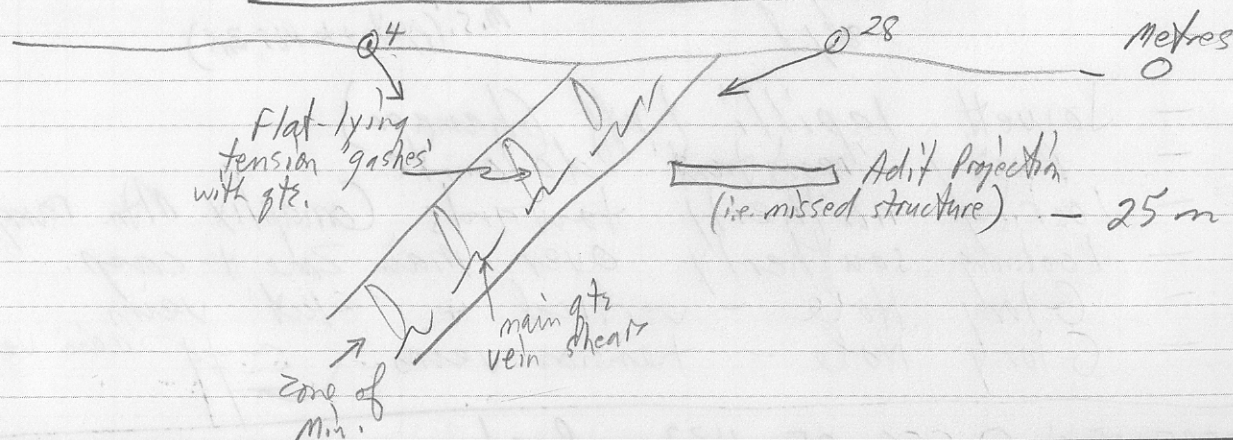
③



LONGITUDINAL SECTION



SECTION LOOKING SOUTH



COMMENTS:

- Severe structural problems here (folding) (needs a structural geologist)
- poor effort by company for 'FAME' visit
- good potential along strike in 'camp'

DESCRIPTIONPHOTOSNo.

① Main Zone area

Qtz-carb. vein in graphitic argillite

②+

Looking SE over Main Zone with core shack in bkgd.

③+

Upper adit on Goldfinch

④

U/G at upper adit on Goldfinch vein (~300 tons mined out in '81)

⑤

Lower adit

⑥

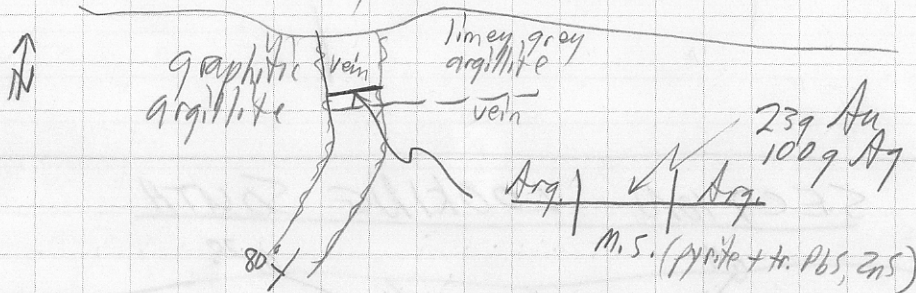
Core from West Zone (+ py)

⑦

Looking SE from Goldfinch towards Pool Ck. (Spider Gp.)

⑧

Looking NW towards Goldfinch from Spider Gp.

① MAIN ZONE: - Looking north at Main Zone shear (Bill F. in foreground)

- Jawett lapilli tuff (hammer)
- Rusty 'resistant' dolomite
- Looking northerly towards Comaplix Mtn. range + East Zone
- Looking southerly over main zone + camp.
- Glory Hole - vertical + 'flat' veins
- Glory Hole - tension veins

REFERENCES: ① GSC OF 432 - Read

② GSC OF 464 - Read

③ GSC Mem. 161 - Gunning.

GOLDFINCH

Feb. 7/88

- Pat Devaux
- old EVA ch.

Goldfinch mine - early 1900's
1976 - small ddh program

Dorothy vein - 34 tons mined (1979)
Broadview argill + phyllites + dolomite

Fault (Shear) - near contact of sed. (Broad) + volc. (Dorothy)

1985 - VLF-Earth mag + ddh
dip changes from steep to 60° W
Vein dips steep to east
Fault dips to west

Min. - py-rich gtz vein cutting schistosity +
- rel. to black argill + / fuchsite dolomite

- shearing at or near contact

- plunge - horiz to slightly N

- sed. dip 70° E, plunge 30° S

- Fault on west side of zone - dips steeply W

EAST ZONE - v.g. + py, Pb, Zn, tetra + fr. ch

- loc. 12 to ^{150m strike} 30 m east of Dorothy vein (Main Z)

→ 2 lenses in calc. argill + 1 in graph. argill

8/15
400 m strike length on Dorothy Vein

150,000 tonnes 8.91 Au in Main Zone
over 300 m length

1.5 m mining width

cut-off 3 g/t Au (.24 opt)

+ 20,000 tonnes poss'd ~~Feed~~ @ 16.83 g/t (.49 opt)

- 425 m decline in progress

- 10,000 tons bulk sample planned

→ Dorothy North Vein has added potential