

Albermarle area: DEBBIE

88/04/18

Cloudy

Ed Lyons

Richard Walker

Norm Tribe

007027

Assemblage

Greenstones / cherts

gold in cherts & in veins

Reworked volcaniclastics -

some pyrox phyrlic

some not

Veins

Sills ? Flows ? within the cherts

Pyx. + Fs phyrlic

Fault - Mineral Ck

cataclastite & fct bx

Munbyn possibly Tertiary

Veins seem to follow old
Fractures

veins

qtz and minor arsenic

py + GOLD

but other veins, same alt

NO GOLD

CATACLASITE AREA

rel uniform gold values
in narrow zones

Veins come into the ^{fit} zone

Section 10035 N

Fit has FW "Harloffs" py
- unit above McLaughlin Ridge

Munbyn in Myra / McLaughlin
Ridge

Geochem

an / as anomalies

An generally > 100 ppb in
Soils

Rocks anyq has flows

pyrox phytic and flows LINDA
zone

Heterolithic lapillistone / clasts
($\leq 60\%$ silic) could

Bedded buff + chert be alt

Volcaniclastics has but
pyrox phytic alt before

land
down in
Sicken

Local
rhy
Volcaniclastics

• altn - clay with veins

• Flt zone - local selec
vfg zones - rhyolite? - old
(or young? not sure

• gold in flt + in adj
Veins

Fault - offsets folded

old ft - lots of remobilization

- Qtz vein frags / calc alt /
Qtz veining / shearing

Mineral events -

not sure if an in cherts
is original or added

Qtz vein stockwork under
900 zone

- Pb isotopes youngish

Regina zone looks old

post metam-
ie post-
Jurassic

• cherts & rhy. are lensy -
appear & disappear.

- all known rhy buildups
are adj to Mineral Ck

fault. BUT Sicker is

isoclinally folded.

ALSS fault offsets steep

reverse faults ie post-

Campaigna - Test?

• FS IT A SICKER AGE FLT OR CMTD STRATIG?

NEVILLE CROSSBY IN
TRACOVERT

SICKER
STRATIG?

Mineral de fct offset by
Beaufort fct?

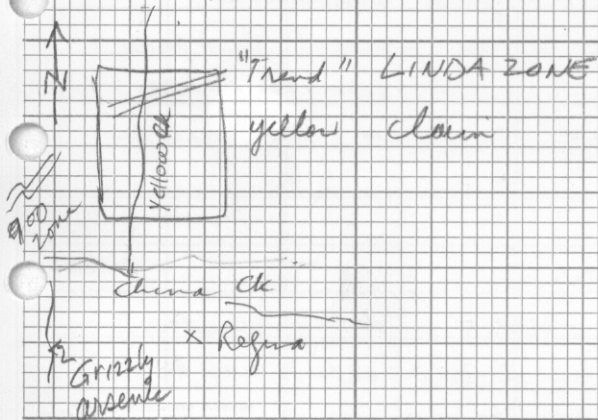
Beaufort mostly net
movement.

* Crest near the property is
not affected

Nick Beaufort - cuts + is over-
lapped by Beaufort fct depending
where you are.

• Confusion factor

• Siderite age intercalification
- usually with rhyolite + assoc
with sericite alt.



One dyke cuts the Mineral
 ck fault & has a bio(?)
 Hfls halo.

Are the pyro dykes ~~cut~~ are younger
 than the N-S shears?

900 Zone

West of the Mineral ck fault

N-S struct / steep? carbon
 in basalt

Ridged chert / E-W / mod steep

fits with altu

zone @ intersection of the
 three structures

- Gold brg stockwork lies below
 the cherts - a pipe?

- chert ore grade above the
 pipe.

* also some gtz stockwork lies
above the chert (local patchy Au)

NOTE

1.4 M ounces of Au ~ 17W deposit
IS SYNGENETIC - so why
not syngen. Au in the
Cherts?

REGINA AREA

Chert Au brg → much higher

— Chert locally carries magnetite
or Fe silicate - locally it is
sulphidized

2 not always with signif. Au

• Min/ld zones - max sulph. 5%.

+ most is ^{at} ~~so~~ the edges of the veins.

900 Stoddante

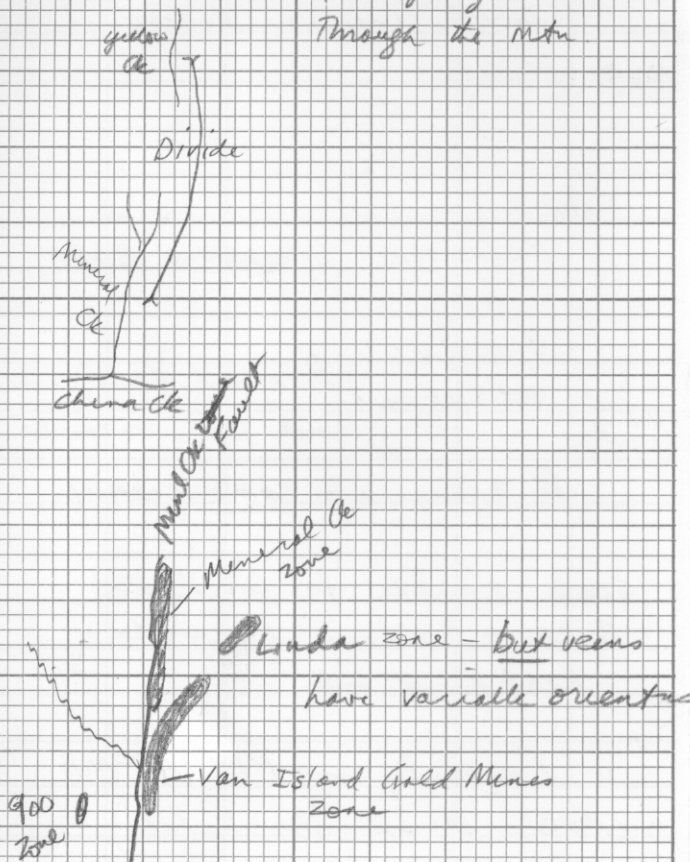
1.02 Ag locally with ~ 10 oz Au

— local Galena.

Generally Au >> Ag + Cu + Zn
are low (even sl. depleted?)

Underground Plan

~ 8 months of drifting needed
Through the mtn



The property is in the watershed

Chera Ck - placer mined
in the 1850's

- creek hydraulicked
completely

SICKER

Paleozoic Greenstone Belt

Bottle Lk

bath
myra?
(370Ma)

Mt Sicker) Proximal Environment
with felsic volcanics

R alberti - same setting

Scale similar to Archean
Belts, ie Timmins - Noranda -
Kirkland Lk

ie Property is in MYRA FMN
(ASB's McLaughlin Ridge)

Rhyolite - thick flows
interlayered with pillowed basalt
that resemble Karmutsen

→ actin or ch

Pyrox phytic volcanoclastic -
 some would call it Nitrat -
 he says it is Myra -
 amyg / matrix-rich

- Property covers 18 km of the favorable belt
- major folds occur
- Colors variably green to purple
- Myra MAINLY basalt to basaltic andesite
- Basaltic bx → flow tops can be recognized
- graded basaltic turbidites
- bedded cherty tuffs
- Schistosity - flat (b) linn // to stretch direction

Jurassic
 Tectonism

- gray grn chert
- chert up - up clast beds

Aphyric pillow basalt
epidolite / dk green
thin selvages
Low viscosity
Rims variolitic

* chert incl. Jasper in
between pillows in SICKLES

• pillow bx → broken pillow
bx

• amyg concentrations are best
guide to tops.

- Epidote altn predates
deform

- Rhyolite - flow banded at
(Qtz Keratophyre)

Contact with basaltic pillow bx

- also pillow bx above
up to several metres thick

Summit
On Cameron / Maen - folded
quartz vein
axis // to b lineation

First hole drilled - 1700' -
Scheist - ser / py / carbonate
deformed m/sulphide zone?

then m/s layer - banded
sphalerite - rich "bed" -
5 then zones like this occur
in chl schist CR

m/s cut by Qtz veins

• Anomaly under creek -

(grd) + aer EM responses

• 3 anomalous areas in the
property

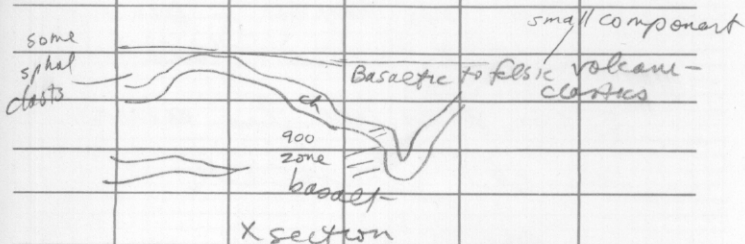
IP, Pulse E-M

THISTLE - m/s + vein phases
Cu + Au assoc with
anom Co + mafic rocks

DM 50 44' of 1 ounce Au
another hole 47' of 4 ounces

Drilled 900 zone with small
hand-movable drill - drilled
generally 500' locally 700'.

• use thinwall bits - but get
400' / bit.



chert locally is Jasper

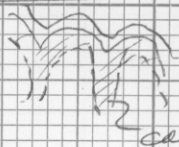
" " sulphidized & Au bry

" Low local magnetite - ^{rich} ~~sed~~
layers.

Qtz Fr & veined by Qtz

Qtz - rare galena grains - v. g.

an also - carbonate

qtz zoneSchematic
Section

carbactn

Lenda - apparent dip on
section shows shallow
dipping vein zones
but not bedding //

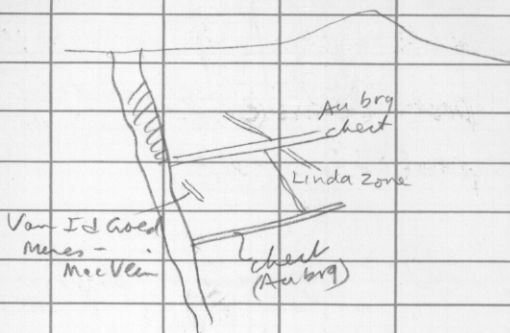
Mineral Creek Zone

Cataclaste - gtz frogs,
cut by gtz veins

• locally the gtz veins can be
banded.

Mineral Creek ~ 150' wide

Gauge zone mainly at Fw
several m thick



Pb. Isotopes

Regina x Rogers Ck

old

900 zone

young

46 Pleg Pry dyke

- has brown indurated halo (biotite?) in the cataclastic zone

* locally you see some fuchsite alteration.

• Adit will be ~ 6000' long

Carbonate altm - age - mostly
post-Jurassic BUT some is
probably older.

- LUNCH -

STOP 1 Green fs ppy - lineated
to poorly fol on the E in contact
(sheared) with chert (gasperoid
patches) then lap. toff $\rightarrow$
Chert < 1 m. + magnetic
- looks bedded
another thin chert (Iron Form)
then volcaniclastics with some
felsic clasts.

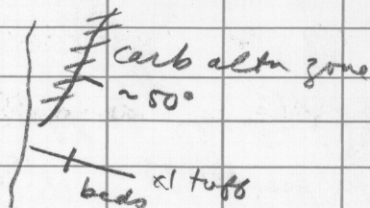
strong line low $\neq$ N
subvert fol.

STOP 2 900 zone

Rusty carbonate altm zone
on pillowed P4076 basalt

stop 2

Then fs pyry xl tuff
layer $\sim \frac{1}{2}$ m thick



stop 3

Drove to the end of the road -
just west of Mineral Creek

Pyrox phyrlic agglomerate
lap. tuff.

STRAT. PACKAGE

ppg flow box

Mixed tuff package

aphyric basalt

Walked up to the old Vancouver Id
Gold Mines adits - Above adit -

gouge patches (clay) to 2m in
core - bxt'd rock - locally

called cataclasite

gtz + rock clasts - most ~~are~~

~ 1cm or less above the adit.

- gray pyritic silic rock

- carb alter zone ~ 150'
wide

photo Creek

Back & walked to the 900 zone

- magnetite bry chert -
- ³⁵ ~~45~~ 02 Au over .7 m
 - very rich in magnetite
with py lenses & fractures
- far per spots
- sample (WJM-88-1)

above is a trench of grey
silicified rock

strong N-S carb alt zone
steep E dip

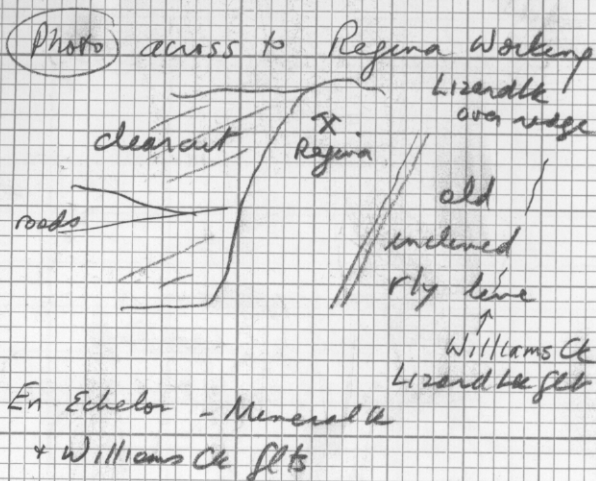
✓ strong low & S plunging
line

Next trench

chert to tight conc
folds in chert

(P1670) folded chert

Rest of trench - dk
silic. argillite?



Next lower Trench

FW to check aphyrite bas
with smeared out chl
amygdules

come into chert again eastward

Below Haduell hole DMSB

900 zone silic carb veined
dk gray py arsenic

(Photo) qtz stockwork

To Rogers Ck showing

stop Rogers Ck schist zone

chl ser carb alt

minor gypsum

CR probably Lap Tuff

+ basalt (stump out amyggs
of chl)

Further down road - get

chl ser schist with
gtz - sphal lenses

Further still is frag-
mental pyrox phyruc
basalt (gray green)

Lap Tuff

Consistent in drilling

Aug Bas



Chl Schist



ser schist