

Dick

July 21, 1981

leaves -  
film -

① What will we geochem for 100 silts  
- 350 rocks + bunte  
Cu Pb Zn Ag  
Arsenic - tungsten? lamp samples? rhy silts

② Will transfer claims - also claimed another 20 units  
to north - 4N 5W.

③ Work on <sup>Aug 12, 1980</sup> property previously - <sup>mistake not few</sup> <sup>gossan - on other</sup>  
three. <sup>1959, 1960</sup> <sup>side</sup> <sup>fund assessment</sup>  
barbed tent frames along Todd Cr. <sup>report</sup>

- 5 trenches along - southern bands by Ice dikes
- some diamond drill core
- in trenches - along contact of iron stained limestone + pyritic, quartz veined sulf - carbonaceous
- further west more very pyritic - sulf - very carbonaceous - gray like limestone - no iron stain
- then 3 trenches - 100 ft apart - 100 ft long
- chalcopyrite + pyrite - pred. pyrite thin gr veins -
- zone ~ 30 ft wide perhaps wider
- to east - very coarse angular sulf agglomerate - large blocks
- further east brown weathering thin gr. buff - large breccia zones in sulf - with gFe - calcite + bunte vein with wavy gFe stain locally and some galena - didn't seem to touch these veins -

325

- also a large vein along Todd Cr. - few  
also bit of galena - Carbonate alteration adj. here

④ - some massive pyrite along these veins - some blocks - 1ft x 1ft massive py

④ No kurukko are - believe to be vein type mineralization  
no evidence to support kurukko type

In most cases ~~from~~ barite in several forms

a) large pods - irregular in shape to 2 100ft x 20ft

b) veins from 3in to 5ft thickness  
one zone  $\approx$  20ft x 20ft.

- veins generally die pinch out quickly -  
most are less than 30ft to 50ft  
long but several perhaps 100 - 200ft

c) small pods within volcanic - replacement  
type of chlorophane - on fresh surface - can  
see barite interstitial with volcanic  
- up to 3in across - quite commonly seen

d) mineralogy of barite veins varies considerably

i) for south by old workings - barite - qtz - calcite -  
galena - pyrite  
considerable py sometimes

ii) over main gossan - predominantly barite with  
occasionally pyrite + galena.

iii) lower main gossan over camp - some calcite, occasionally  
a fair amount of galena, some pyrite,  
occasional chalcocite, some sphalerite, silver, mineral  
arsenic pyrite?

iii) Main vein - jasper breccia - massive barite  
above - little galena shiver -  
vein seems to continue to top of wedge  
- core of red jasper or red jasper breccia  
with barite on either side - on one outcrop

- at least 30 ft thick of barite - some galena -
- on top of ridge large amounts of galena - one pod 2ft x 2ft full of red.
- on edge of outcrop and ridge - much under cover or snow - but seems continuous.
- found to north or hanging wall by fault
- sheared grey tuff + coarse red <sup>fault</sup> conglomerate to north on other side of fault
- Several fault continues over ridge and into next valley - bounding ~~part~~ gossan the gossan. - Shearings in unaltered rocks to west + north
- to south of this fault some iron staining + alteration but all areas of much smaller extent than main gossan
- on hanging wall foot wall - 100-200 ft zone of silicified rock - mostly white. but sometimes red - qtz veins - py veinlet - gypsum?
- on lower part - there is red silicified rock above breccia then - 50ft zone of red jasper. then purple vein then white silicified rock.
- abundant red sparkle - little other red sparkle in other galena.



iv) in next creek - Calc - Calcite - Jasper - barite

v) then pred. qtz veins

vi) Last creek - little Jasper - barite - Calcite veins -  
Gadener

Perhaps creek zones

barite barite-calcite - Jasper barite  
exception of main main vein

Mineralogy - pyrite common galena - sporadic -  
chalc, Sphalerite - <sup>small</sup> arsenopyrite  
tetrahedrite

\* Calcite - ruby <sup>cup stain</sup> silver - thin streaks in calcite

(5) Geology dip  $45^{\circ}$  E - gentle slopes towards South  
very massive little bedding  
strike - N-S.

a) red fanglomerate - up high - large boulders to cobbles  
no py - full - red to purple matrix

B) over lain by finer red buff - small clasts to 1/2"  
- to red buff with few clasts

EDWARD GROUP - Stewart Area.

a)

Mt. Walker Tuff.

Weybridge limestone marker - Ryegate member  
~~~~~ unconformity

Middle Jurassic. Volcanic conglomerates ss, siltstones  
red & green.

~~~~~ unconformity

Lower Jurassic - Volcanic conglomerates - sandstones, siltstones +  
breccias - mainly some red - mainly green

b)

American Creek - #1 Hazelton.

red to green conglomerates and sandstones  
agastal + lithic tuffs

- show dip of  $45^{\circ}$  E

- show agate diorite stock - in south part  
of American Cr - could describe basic  
dykes in area

c) Stewart Prospects American Creek

American Cr - Anticline - major structure - along  
American Cr

- East of Bear River Pass - deformed by faults

- describe structure as N-S horizontal fold axes

d) Mineralization -

- gtz - breccia vens - and transitional vein replacement systems

- irregular lenses + shoots

- pyrite - galena and sphalerite - gold + silver associated

alteration - silicification  
carbonatization  
pyritization

- some pyrite pyritization, hornblende, K feldspar

Ruby silver - bonanza shoots !! Prospect + Porter Idaho

Alfaretta - up to 95% gtz

Big Casino 67 - gtz - bunte - jasper - calcite stringers  
- minor py, sphalerite, scant galena + chalc

- mixed red + green volcanic congl.

Independent 69 - Hazelton vol. congl. + breccias

- irregular gtz - bunte - jasper breccias

- erratic py, chalc, sph., minor arsenic, py + po

- to W. congl.

Red dirt 68 - Copper 2 gold gtz

e) grey dwtc. above conglomerate - most of gossan!

- fine gr. tuft - occasionally waxy - some  
pyrite - near gossan - away no py-

could see crystal tuft? some small rectangular  
clasts? - in det. stuff.  
- may be phylactite?

d) white volcanic - rhyolite - qtz grains?  
- some py- grey w. kaolinite - but jarosite  
in voss.

c) grey volcanic high py- qtz-sericite structure -  
small quartz soft spots sericite

f) Sulfidated volcanic - white + red

g) Jasper

h) basic hornblende dykes - 1 ft - to 2 ft thick  
- N W strike steep dip - no alteration  
along side "

i) Amphibole dykes

Note.

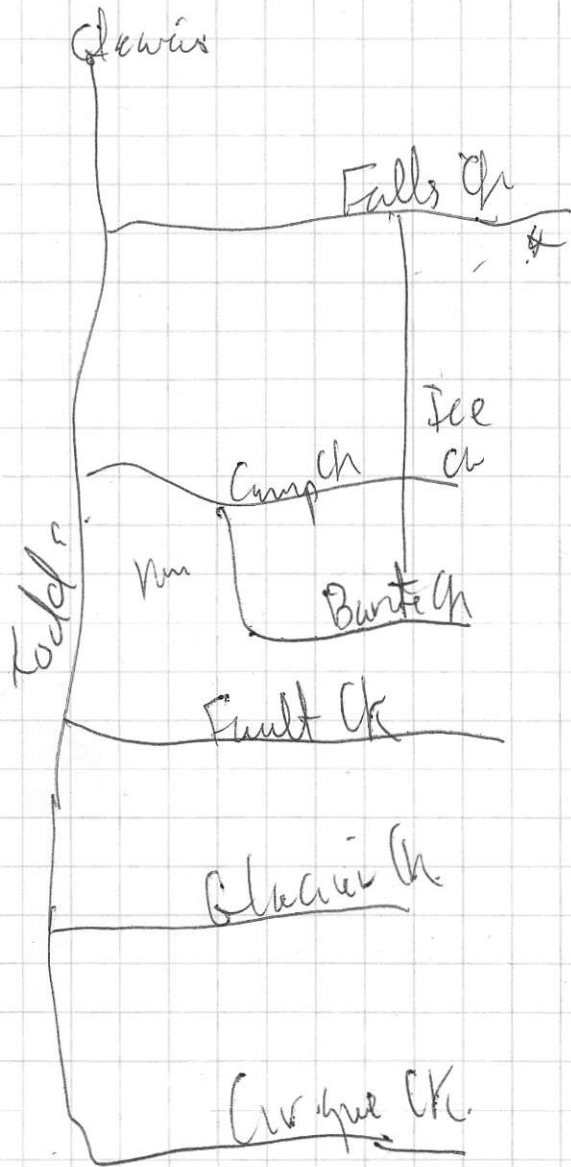


- ⑥ Structure - Intense faulting so faulted would  
 take much time to plot all.
- at least two periods of faulting - probably
  - one set steeply dipping - main set strike NW  
 dip  $\hat{\sim}$   $60^\circ$  W. but others also E-W  
 $\hat{\sim}$  vertical.
  - later set - very flat. strike  $\hat{\sim}$  E-W dip  
 $\hat{\sim}$   $25^\circ$  N  
 - late stage gtr. associated. gtr  
 faults faults
  - faults cut dykes.
  - movement during and after veins - mainly  
 veins brecciated and moved about
  - most cases displacement does not seem  
 large except main fault.
  - faults, apparent alteration - along horizon  
 - faults - alteration zones - delimited to west  
 a less than fault  
 - many faults near fault - so many fault

- ⑦ Alteration - gtr - sericite - main gossan
- carbonate - much of red fault reacts  
 to acid.
  - epidote - in float + in northward  
 end of property ad; to gtr and  
 veins



S



N

Albin - Russian - brann pyrenees  
- orange - light

AS. - high trace element in cheese  
cheats

① Phone Canal ✓

② Phone Conway

Kii

③ Phone Deakin

④ Phone Chester ✓

Dave Neave

⑤ Phone Bank

⑥ Phone North Shore

⑦ ~~⑦~~ Phone Surrey ✓

Chemex -

6-81-150 Cu  
A-81 151-  
152  
15

|          | Cu  | Pb   | Zn   | Ag (background) | A-81-130 |
|----------|-----|------|------|-----------------|----------|
| Chem 151 | 75  | 79   | 50   | 30              |          |
| 154      | 119 | 220  | 68   | 3.2             |          |
| 155      | 36  | 35   | 1100 | 3.9             |          |
| 156      | 12  | 75   | 330  | 2.8             |          |
| 157      | 10  | 36   | 70   | .9              |          |
| 158      | 24  | 55   | 48   | 1.3             |          |
| 159      | 330 | 36   | 180  | 3.0             |          |
| 160      | 120 | 30   | 168  | 6.6             |          |
| 161      | 12  | 60   | 28   | 1.3             |          |
| 162      | 31  | 115  | 220  | 12.5            |          |
| 163      | 55  | 35   | 410  | 9.0             |          |
| 164      | 16  | 55   | 75   | 2.1             |          |
| 165      | 107 | 80   | 270  | 4.7             |          |
| 166      | 50  | 10   | 170  | 7.0             |          |
| 167      | 120 | 1500 | 420  | 9.0             |          |

|     |     |      |      |     |
|-----|-----|------|------|-----|
| 155 | 52  | 90   | 380  | 1.5 |
|     | 75  | 175  | 420  | 3.0 |
|     | 38  | 65   | 260  | 1.0 |
|     | 53  | 185  | 610  | 3.5 |
|     | 115 | 430  | 1350 | 7.5 |
|     | 375 | 1000 | 2900 | 6.2 |



① Practic Survey - next week?

② Tuck - Smithers - Hoskins - Ford - Peter