



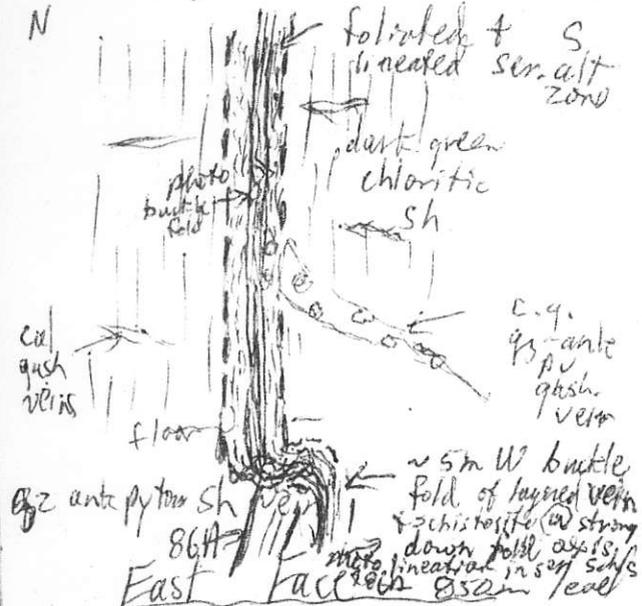
803582  
RV Kirkham

Book 2-1992

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225	2004-11	Chugan	2004-11	
226	2004-12	Chugan	2004-12	
227	2005-1	Chugan	2005-1	
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intrusion with prominent  
pale sericitic alteration  
zones along the shear  
vein (photo east face)



McKenzie shear vein

Summary

- 1) McKenzie shear zone  
qz-carb vein system is  
subimposed on & distinct  
from sulphide-rich shear zone  
(should be dated)
- 2) Main shear sulphide ore is  
deformed

Newhawk-Catear 14  
Area, Sulphurets, B.C.

Sun August 9/92 Sun & cloud  
Peter Lewis  
Simon Tait

- @ Dave Visagie,  
Steve Roach & Chuck Kowal  
- photos high ridges S of  
Knipple Icefield (for sample  
- see map)  
- went from New  
Spitt zone, past  
Catear trench to NW  
past high-grade, past  
zone W of pond,  
~100-150m N of  
pond ~30-50cm  
- wide qz stringers  
@ galena KD-92-91A  
(found by Dave Visagie)

rusty zone ~2-5m wide  
~ trending NS @ ~ EW  
qzsh qz veins @ mod. gn  
- then went N in quartz  
arenaceous cyl @ irregular  
qz granules & dark arg. clasts  
& then E to Catear camp  
& then south to Ed's "Discovery"

electron-bearing pits -  
~10-20% qz stringers in  
qz - set up schist  
- more rusty <sup>concentrated</sup> for much  
of way S to Spiff (W/Sch)

Spiff - ~20-30m @ ~15  
- 20% qz stringers - near  
top of d/c ~1 to 3m  
of 1 to 1.5 oz Au/t  
- photos heavy concentration  
(~10 x 30cm x #15cm) of  
electron KQ-92-92  
- some arsenopyrite  
- because of good results  
several saw cuts are  
being made throughout  
the d/c (Steve will  
collect samples for  
lithochemistry & mineralogy  
from the area)

- followed stockwork  
zones on trench  
most of way back  
to Brechejack Camp

past Grace vein 15  
system - much  
0.02 to 0.03<sup>oz</sup> Au/t @  
local 0.1 - 0.2 oz Au/t

KQ-92-93A - vein  
material near sawed  
area on PM-1 Zone  
~50m <sup>±</sup> KQ-92-93B  
from Marie Zone  
(minor ruby silver?)

- checked d/c's near  
T-11 trench along  
extension of Shore Zone

- ~70-90m N? on  
strike Carrino Real  
Zone @ some 0.4 oz Au/t

- @ Steve & Chuck  
walked through Brechejack  
& West Zones

E end of Bielecki  
many sheared &  
NS dz carb veins  
Some ~~of~~ (10) excellent  
ruby-silver (W side of  
KR-92-94A NS sheared vein zone)  
& a 5-6m E in same  
NS vein zone E of Creek,  
veinlets well mineralized  
(W galena & sphalerite  
(KR-92-94B))

### Summary

- 1) Some excellent min.  
in "new" zones (previously  
mapped by R/K & W <sup>anomalies</sup> samples  
(e.g. Spitt))
- 2) Some quite reasonable  
continuity to Stockwork  
(stringer - branching vein  
systems) & good anomalies  
(0.05 - 0.06 Au/t background)
- 3) E end of Bielecki <sup>could be seen</sup> NS vein system
- 4) Once again detailed mapping &  
sampling is paying off.

<sup>North</sup>  
East of Brucejack 16  
Creek - Newhawk  
Camp - Sulphurets  
Glacier

Monday, Aug. 10/92 Sunny

- rock knob in  
meadow - mainly  
cleaved granitic  
slate & quartzite  
- ch. ( $\pm$  bit of  
W fill here too)  
(W possibly one  
2m wide - NS  
pl-hb porphyry)

- Ed's Lead vein  
- near stopping  
has exposed in  
2m wide - E-W  
trending -  $\sim$  80% dz  
95 carb impul stringers

in grey arenite &  
graphitic slate

- then went W across  
Brucejack Lin.

slate cleaved  
interbedded <sup>vec</sup> green  
arenite & black silt

n 100-150m W of lineament

$\sqrt{227^{\circ}/80^{\circ}}$  (NW) fair  
on cleavage

(slate & silt)

$235^{\circ}/110^{\circ}$  (NW) poor  
on bedding

- significant flattening  
of dark arg. clasts  
in arenite

n 75m W

$\sqrt{275^{\circ}/21^{\circ}}$  (N) fair  
on bedded arenite  
w spaced clv.

$219^{\circ}/85^{\circ}$  fair on slatted  
Some slip into grey slate

med. granule pebbles 17  
debris from quartz w  
soft & hard frags

n 100m W

$\sqrt{225^{\circ}/52^{\circ}}$  fair  
on bedding

$220^{\circ}/87^{\circ}$  (NW) poor on clv.

n 100m W  
x  
SE  
Dip  
Dip

Section

n 70m W 1RQ-92-95A

typical pale grey  
med. f. to m-g. arenite  
fr. py? - 10-15m thick

n 50m W shows x-bed  
& pebble patches

- beds appear to be  
upright

KQ-92-95B

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- typical relatively massive f.g. buff-weathering pale grey lime arenite  
S.S.A

W small str. & shaly patch ~ 100m SSE

~ 280m W 335°/86°

fair on bed below

203°/83° (W) poor

on clv

interbedded black + grey turbiditic arenite & arenaceous bl. mudst. siltst. & limy beds - some pe & lim conc. - probably Stuhini Group although rel. steep beds, ~ same clv. of inclination as arenites to E

- ~50m W limy concretions, f.g.  
- limy slaty beds (latter fossils???)

- ~50m W 218°/31° (W) good on beright bedding (arenite on grey slate (W scar) & pebble lag)

- some x-bedded pebbly ("floatstone" conc.) arenite & arenaceous cgl units

~ 300m + W base of hill to N

pebble patch (W scar)

W side of hill

SF

W

~70m NLL (a snow test)  
(~100m E unusual size of  
main structure)  
323°/82° (N) fair  
on bedding

clv bl. amphibolites & mudst  
116°/84° (S) fair  
on slaty to spaced  
clv (note clv. near  
diff. from earlier  
to E. north  
- buff carb. at base  
if red ch. rocks downst  
poly micritic base  
some slaty & intense  
seas. clast of they  
hemim. (1-2m?)  
pale green calc. in pl.  
with ch. test (sample)  
(w. impressive pe downst)  
~60m N downst

262°/79° (N) poor  
on clv. in.  
buff-weather drab  
green-grey polymictic  
br.

KQ-92-96A 19  
pe alt sh. chert nod  
in som ll of last  
year's sample canyon  
(w) snow <sup>sample taken</sup> folded 92° (E)

some pyroclastic str. like  
- foliate downst  
buff-weather carb. alt  
& pe (over ~120m)  
first 4 less alt buff  
sheared of fol.  
~100m W down steep str.

145°/84° (SW) good  
on interbedded  
drab qtz-grey  
chloritic tuff's on  
silted. of 50cm 1m  
thick br. beds w  
dark chloritic  
frags

KQ-92-96B - typical  
of 50cm-thick br. bed  
w/ minor diss. pe cal alt tuffite  
158°/82° fair on bedd  
green-grey tuffs & lesser dark arg?

~ 30m W

345° / 38° (E. ✓)

fairly or bedded  
immature <sup>drab</sup> gn-grg

f.g. ss, siltst. on top

- some strangle

sheared lime beds

(more sed. mature)

~ 30m W

fair on good rhythmic  
bedding in pale +

med. grey distal turbidites  
& dark grey cl. mudst

- some thin lithographic

ls beds - poss. some

- soft sed slumps - <sup>brill</sup> (last)

~ 15-20m of mas. drab

gn-grg dense dyke

(or v. f.g. sed.?) to top  
of bare

OR2-1 - ~ 150m v. a boreic

NIE of lin - ice jacket

top of bare dr

thick dense drab sills

4 dykes in dark

turbidites  
- photos of turbidites

- ~ 30m S near top  
of bare area

KQ-92-96C

arenaceous pale to med

green immature granitic

qtz (minor) @ ~ 15%

23? & feldsp (large x)

granules - interbedded

@ dark siltst. it is

definitely sedimentar.

even though some

large feld x's are

relatively angular

Salong slope

- went ~ 100m then

turned W down slope

immature granitic - arenite

& drab gn-grg polv lithic

breccia units = rel.

mas. - trending towards

falls on Brucejack Cn.

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Forming  
top of  
dike  
dike  
cutting  
sed  
formation

\* this resistant vol. breccia unit could be reason for icefalls on Sulph. Bl.

- one 4-5m thick mas. drab gun-grey matrix breccia (w scattered white 0.5 to 2cm feld. xtls (similar to W side of glacier near Ice Sculpture Zone)

\* might be a useful marker

- units become more sed & better beds to be granule arenite & dark grey siltst. - mudst. beds - gradational contact similar to E side of toe of Hanging Glacier

- abundant white feld xtls in arenaceous units (1 to 3m)

- possibly tops west

030°/82° (SE)

2nd-3rd  
poor  
tops

fair on bedding

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~ 30m W

030°/79° (SE) fair on bedding

- see gradually darkens

~ 20m W

020°/77° SE

good on well-bedded dark rhythmic sed

KQ-92-96D

(10m S of str. ~ 50-70m above ice)

~ 5m thick drab dark clast vol. br. W

028°/78°

good on well-bedded sed

br & sed. interlayers

- 4m thick feldsp.

arenite unit in

well-bedded dark sed.

- some 2-4m folds (soft or hard rock?)

- phone WNW of NW trending turbidite

cut by dry ice

- 50cm - wide N-trending  
am. mag. mafic dikes  
- bedded arg. clasts  
(10-20cm) in some  
& vol. br. units

- ~ 30m W <sup>SW</sup> arenite  
units @ argillite  
rip-ups  
grading tops E (photo)  
photo convolute  
bedding

KQ-92-96E paleograde  
of black mudst  
~ 15m above  
ice & snow  
70-80m S of str.  
tops E

320° / 65° (RF)  
fair on contorted  
bedding

- volcanics sit on sed @ tops E

KQ-92-96EE 22  
base of 70cm  
thick grading  
grey f.g. arenite  
unit @ dark  
mudst. rip-ups

- some rolled into  
balls - photo  
- pen point in  
many photos face E

- to W along ice  
photo contact as small  
zoned ~ EW mafic dyke  
& NNE-trending  
rhythmic distal turbidite

- to W rhythmic distal  
turbidites & black graphitic  
mudstone are highly  
disrupted by several  
dikes (several photos)  
west of Sulphurets

Porphyry approximately  
200m N of west-ventrals

well-bedded hornfelsic  
sedimentary rocks  
- mainly a N-S, E-side-up fault  
N of Sulph. Gl.

Summary

1) uncertain about Tact  
formation & relationship  
with turbidites to it  
- generally "more steep  
dipping but some interlaying  
pale to dark grey f.g.  
mas. arenites" similar  
to rocks to E

2) drab polytrophic (basaltic  
- some <sup>mineral</sup> phenes) breccia  
unit is resistant & forms  
canyons in creek & bold  
c/l's to SW (falls area  
Brucejack Cr) - interlayers  
drab green-grey f.g. s.s. & silt  
(tuffaceous?) & to W gradate

(ii) thick grey feldspathic gneiss  
& dark rhythmic seds.  
gradational contact (ii)  
Top E

Similar  
rocks  
SE corner  
of Hart  
Pit

3) many soft sed. disruption featy  
(similar to SW side of Gl. (icefalls)) near S

Southwest Arm 23  
of Sulphurets  
Glacier

Tues Aug 11/92 Rain  
w Gwindolen Ditson

QR 2 - 130m V  
above top of med.  
above xels  
- 200m E of  
Kerr alt. zone

KQ-92-97A  
- med. grn. grey  
drab rd br  
pl. thb pheric  
clasts 5 to 30cm or  
more foliated f...  
Kerr Zone

20/c's  
in  
pl (hb) porph.

~ 90m W of CR2-2

290°/84° (NE)

poor on ch.  
in green-grey  
vol. st. (w)

flattened frags

for ~ 60-70m  
units of polytine  
br. some clasts  
to 30cm

some rounded  
& some arg. clasts

KQ-92-97B

~ 100m W of 97A)  
& 250m E of alt zone

~ 55m W ~ 5-8m into  
rusty zone - mel. mas.  
rusty d/c's med. grn-grey  
pl-hb rocks. @ ~ 1-270

diss. py (po) 24  
& tr cp  
KQ-92-97C

- some br frags

~ 20-25m W

KQ-92-97D

same py po (cp.)  
pl-hb porph

~ 20m W  
- one 10cm br-stained

~ 70-80m W?

KQ-92-97E

same pl-hb porph  
~ 1% fract. & diss. just  
before large  
bank d/c & stacks

~ 70-80m W  
same py po tr cp  
pl-hb porph

KQ-92-97F

then dropped ~ 50m  
V south to top  
of moraine

one ~ 1.5m-wide  
SW trending  
post-mineral pl-hb  
porph-dyke

~ 30-40m W between  
large base of c's  
KQ-92-97E  
pale grey siliceous  
alt. py (~4-5%) pl-hb,  
porph. - highly  
% py & more alt.

same py rocks W  
gradually becoming more  
chloritic  
~ 90-100m W on top  
of moraine  
158/74° poor  
on poor foliation  
KQ-92-97H

- above moraine  
- ~ 100m W across show  
~ 15m wide rusty schist  
dike  
S, 146°/78° fair on

schistosity 25

(W) crenulations  
pale py (2-3%) ss - some schist

KQ-92-97I

296°/11° good  
plunge of  
crenulation foliation  
axis

203°/10° fair on S2



10-20cm spaced clv

~ 70-80m W  
top of moraine helix glitts  
149°/5° 4500  
KQ-92-97J on strong foliation  
in chloritic schist  
plunge 235°/80° very strong stretching in  
" 330°/15° crenulation

Take to sta.

QR2-3 - top of marble  
- fol. us  
- went S across  
glaciers

QR2-4 - bold cliffs  
- ~100m E of  
icefall  
sheared, was  
green matrix  
volcanic (could  
get to top of  
get sample

~90m E across snow  
shoot ~40m W of snow  
shoot (by line)

143/80 (SW)  
Poor on fol  
limy sheared  
meta. vol.

KR-92-981K  
sh. chl. meta. vol. br.

  
↑ possible  
C&S fabric  
(w 2 or 3  
fol. at ms)

@ ~3-4% diss. pt 26  
2 to 3 fol. planes  
~150m E across large snow slope  
KR-92-98B - relatively mas  
plagiocl. hb porphy  
~200m E pt of slope

286/720  
pale hornfelsic  
sect.

@ minor pyrite  
KR-92-98C - horn. sect  
KR-92-98D - ~2m wide  
~NS steep pale alt  
pt (2-3% diss. & veins)  
pl-hb porphyry dyke

### Summary

- 1) Wide area of alt. pt (po) (cp)  
pl-hb porphyry in lower  
part of Kerr alt. zone  
- probably an intrusion
- 2) Western contact zone  
of Kerr system is  
highly sheared relatively  
steep structure



fault dipping  $\approx 40^\circ$  N (some steeper foliation),  
down-hill bold glacial  
of c/w peritic - sericitic  
schist (w  $\approx 1/2 - 1\%$  buckles)  
folded quartz veinlets  
& fol of glacier might  
have retreated about  
300 - 400m since 1951  
?? (check photographs)

- relatively massive  
and? or f.g. intr. etc?  
@  $\approx 5 - 7\%$  pc &  $10 - 20\%$   
P3 (pp) veinlets @ sericitic - <sup>strong</sup> <sub>shaded</sub>

KQ-92-100A  
 $\approx 150m$  W of ice  
at str. chl. pc  
and cut by  $1/2$  pc  
vein stockwork  $\approx 15\%$   
(photo)

KQ-92-100B  
 $\approx 70 - 80m$  NW  
of base of Mitchell  
Zone bold of c  
at base of

(a base of ice  
 $\approx 20\%$  of veinlets 28

(w pc in stockwork  
in chl. pc (photo)  
alt. and?  
probably outer part  
of Mitchell Zone  
cut

tr. g. sericitic known splits  
granite

pc ser. alt. color  
Mitchell Zone

Montgomery Lee Zone

- grn chl. alt. intr. fool?  
(w cp ( $\approx 0.3 - 0.4\%$  chl)  
 $\approx 100m$  W to JRB br. zone  
S91-398

$\approx 25m$  ENE  
KQ-92-101A

intrusive beccia  
(w good cp in matrix  
pyroph. frags (photo note vein)

about 20% 30m area  
D breccia

Mitchell of Sulphure<sup>29</sup>  
Zones Drill Core

walked down to Sulph.  
Gold Zone crossed  
Sulphurets & Raquin  
faults

Thurs Aug 13/92

Sunny

- KQ-92-102 - qz cp  
mo (trbb) vein material  
some 30-50cm wide well mineralized  
vein blocks in area) - top of  
Thresher stream canyon  
near sample site <sup>KQ</sup> 100m  
(for Re analyses)

- went ~200m SW & looked at  
pale py sil. highly alt. chert

### Summary

- 1) trachytoid sy - mar. low, gr  
area is mainly a breccia
- 2) fault N of Mitch. Co. dips <sup>115°</sup>
- 3) JRB (sch. Bellung) breccia at  
least locally contains excellent cp
- 4) pale sil. block at end of stream, high alt.

Mitchell Zone  
- 3 holes drilled in  
1991

S91-386, 387, 395 (Alde  
396)

S91-386 - 153.7m deep

<sup>130° bearing</sup>  
<sup>2-45°</sup> - very uniform from  
top to bottom

pale to med. green-green  
pyritic (~4-7%) sev.-chl.  
schist cut by ~30-60%  
qz veinlets (mostly qz) <sup>no -40° dip</sup>  
<sup>in 50% of veinlets see - to be</sup>  
late "white" qz @ scattered cp  
Specimens

5.2m, 11.5, 20.7, 28.5m, 33,  
42, 47.5, 54, 62, 69, 74.9,  
80.6m, 90.4, 96.5, 106m, 113,  
121.5, 125.5, 144.5m (typical  
of minor late "white" qz @ scattered)

minor ep), 151.2m  
- specimens are typical  
of very uniform  
drill core (w perhaps  
not much of minor late  
sl. dr. "white" qz @ minor ep  
but also ep @ py in  
earliest?) "grey" quartz.

- very intense uniform  
qz (py (ep) vein stockwork  
in green-grey py  
sericite schist host  
rock - can't tell  
original rock type  
& few few sections  
without qz veinlets

- some buckle-folded &  
dismembered qz veinlets.  
probably a deformed  
porphyry type stockwork  
(w Au (± Cu) going @ stockwork  
& py - py in schist is  
probably related to veins -  
core is similar to HQ-92-100B

Hole # 591-395 <sup>- 400' level</sup>  
190.5m <sup>30</sup>  
to 235' is medium  
green & more chloritic  
than entire hole  
# 591-386 - i,  
I suspect would  
have been lower  
grade but lower  
part of hole to 625'  
(190.5m) is paler  
more sericitic &  
has similar vein  
density to # 591-386  
(similar grade?)  
(114.2 - 116m late barren  
green and. dyke)  
28.7 - 44.5m more  
ser. section higher grade.

#### Specimens

11960m (typical of chl. section)  
8654 185.5m (typical of ser. " )

# Sulphurets Gold Zone

Scanned holes # SG-92-22

SG-92-22 233.5m deep

- mainly med. over highly altered rocks @ h 1 to 70% py diss. & as vein @ local breccia areas
- minor relic <sup>small</sup> pl. phenes locally
- some <sup>minor</sup> tourmaline near towards
- low to negl. qz veins & cp contents
- possibly <sup>tr</sup> f.g. hydroth. biotite
- probably highly felspathic rock @ low Ca content
- \*very few veins in SGZ compared to Mitchell Zone

quick scan 31  
# SG-92-15 - send similar to #22 but just stained dem. extensive potassic alteration (f.g. k-spar) med. (grn) qz, pure f.g. @ night. cp & fcc. qz veinlets

- obvious relic f.g. pl-(h.b.) porph texture
- probably f.g. intrusive porphyry?

quick scan # SG-92-03

- similar f.g. interg alt. pl-(h.b.) porph in lower part of hole @ less distinct relic textures up here also reasonable cp (py) zone (± term? ± m.c.??) in 1/2 way down hole possibly some small dark hydroth. biotite clots