

RV KIRKHAM
SULPHURETS

803541

1988 - Field Notes - Contents

BOOK I

Date	Sta. #	Spec #	Location	pgs.
Aug. 3/88	-	-	Catear Camp	21+
" 4/88	R8-1→3	8-25→30G	Catear (Gold Wedge) underground.	22-29
" 6/88	R8-4→5	8-31→34A	S. of Catear camp	30-35
" 7/88	R8-6-7	8-35→42	Catear stope	36-47

BOOK I

1988

GEOLOGICAL SURVEY
OF
CANADA
G.S.C. 146-S

1988
Book I

Date	Sta	Spec.	Location	Pages
			Superior Wash Exp	1
" 12		10-22 No	Copper Island	2-3 unrec
" 16		10-23	Port Coldwell Camp	4
" 17		" 4-10	Healy Stn side of	5-9 + 11
" 18		" 11-17	Goldenmead Mine - Healy Stn	10-14
" 19		" 18-24	Pine - Williams Mine	14-20
" 20			Celean Camp	21
" 21		10-25	Celean - Underwood	22
" 5	10-25	" 26-30	N. of " Camp	23-25
" 6	" 4-5	" 31-34	S. of " "	30-35 etc
" 7/8		" 35	Celean Slope	36
" 11	" 6-7	" 36-41	SW of Electron 401 ^{Galena} _{Station}	37-47

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11/16
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12/31

CANADA
Department Energy, Mines and Resources
Geological Survey of Canada

NOTE BOOK

No. 1
SEASON OF 19 88
PROVINCE Ontario, B.C.
DISTRICT Lake Superior, Sulphurets
NAME R.V. Kirkham
CHIEF OF PARTY R.V. Kirkham

Any person who finds this book will confer a favour
by mailing it, free of cost, to: —

THE DIRECTOR,
Geological Survey of Canada
Department of Energy, Mines and Resources
OTTAWA, CANADA

G.S.C. 146-S
R. 2527

Cateau Camp 21
Sulphurets Region, B.C.

Wed. August 3/88

Fog, rain

- arrived Cateau
Camp ~ noon
Uston Ross pilot
VIH BER Bell 206
- fog ^{grain} over Salmon Glacier
at camp

- assume declination
is 029° + elevation
camp (helicopter pad)
1530 m

- Erik Ostensoe - manager
Ken Konklin - geologist
- mill - jig + Wilfong tables
- Erik think could
develop 4 stopes for
~40,000 tonnes 0.5 g/t Au
"reasonably" assured
- project is currently out of funds

Ed

- asp in ~~set~~ sericitic ps
schist in walls of vein
little or no Au - asp
conc. in vein w/zt Au
- Au in qz vein structure

Thurs. 11

- a

- p
E

- a

- a

- b

Goll

Zinc

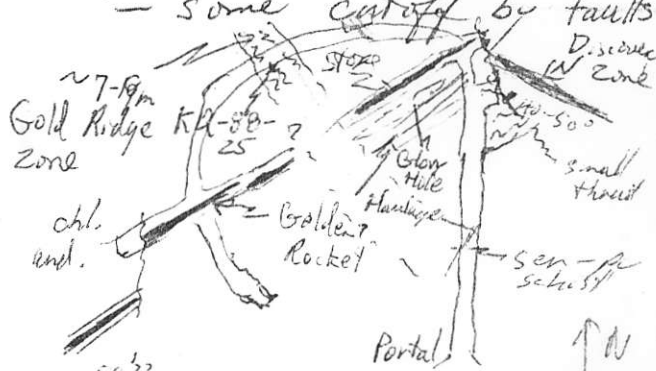
20

Catear (Gold 22
Wedge) Underground

Thurs. August 4/88

Fog, minor Sun
& showers

- am - plotting, map work
- pm - underground with Erik & Greg.
- decline - ~1500'
- green sl. foliated andesitic vol. cut
- by narrow faults & veins
- @ gouge, ser-pu schist zones & Au (Ag) (asp sp, gn, ^{py} rhy, silice, gn, stringer systems
- some cutoff by faults



Sketch of Decline

Gold Ridge contains ~
0.1 oz/t Au? or ~ 7-9m?

(erratic values but quite
wide & consistent structure
similar Golden Rocket
mineralogical

KU-88-25 - Gold Ridge zone in

- some thin ^{discrete} ~~discrete~~ ^{disseminated} ~~disseminated~~ ^{veins} ~~veins~~ in ^{py schist} ~~py schist~~

- py-ser, & qz stringer

zones are probably

@ least in part bounded
& truncated by faults probably
a mosaic of faults of
variable offsets in
area

- variable % of qz veinlets
in serc py schist

- much brecciation of qz
veinlets (need to wash
some surfaces to see
details & for photography)

- indication of much post

one deformation (brittle
& slip ^{ductile} along schistosity & E
fault (young - i.e. young) truncation d

North of Catear 23
Camp Area

Fri. Aug 5/88

local fog
all day (high)
& some sun

- assume elevation of
our bunkhouse is ~1535m
(i.e. ~5m above main camp
level)

- ORB-1 - assume 1535m (set)
- bunkhouse
- knob of rock NE
end of lake

N & E of bunkhouse
& across Brucejack
Lia. med. grn-glec
heterolithic volc. b.
* - same unit on
both sides Lia.

324

324

~120m
E of camp 324°/66° fair on dip
dir. of weak foliation
in alt. pl. ^{grn-glec} and ^{volc. b.} rock

① ~50m N end of in snow
between lineaments

FQ-88-26 same
grn-grey cruddy heterolithic
andesitic vol. br. ^{- some} dark clast
perhaps more mas. pl. + porph.

to E + SE

-si
-
only v. minor Fe stains
in area

- frags. ^{mainly} 1" to 10cm (w)
a few to 30-40cm

th

~ 153° / 16° NE noon
on strike & dip of
bedded ^{immature} arenite ~
40m NE of 26 across
lin to Bruce's Late
base of steep slope
up John Walker
overlies poorly sorted
immature boulder
cgl. (w) some pl. porph.
boulders

snov

~ 12m farther NE24
up slope ^{below} large grey
clite

lith
vol
clast
poph.

136° / 76° NE pair
strike & dip on
bedded vol. ls. tuffe
immediate ss? & sand
- some rusty peritro
units

s

D

in

KQ-88-27A just
above arenite & qgl.
cherty vol. pale red
grn-grey unit @
some lapilli frags
~ 2-3m thick
& overlain on in
fault contact @

oss

o

o

o

sted

sh

~ 3m rusty ser.
ps - "schist" 27B
1 ~ 5-70' poph.
- high cliff to N
is ^{mass.} narrow grey pl.
- went to E ~
60-70m & then N

up draw

- same pale & med,
green grey sl. ser.
mas. lap. tuff units & some
Br 27C narrow
~ 6-10 m wide ~ NS
rusty ^{pu-ser} uphill E of
draw (LC spec.
~ 30m from rock spec.)

- to NW near base of
draw pale ^{green} sericitic
lap. tuff 27D

- ~ $\frac{2}{3}$ way up draw
27E same as 27D
except some
bl. sed. clasts?
(possible derived from
underlying graphitic
unit ^{or} - much bl.
slate & lithographic ls
clasts in talus - from
draw in ridge)
- top of draw

5-10m thick 25

units maroon & maroon
grey lapilli tuff
vol. br. - some (w)
X-cutting zones (w) len.
matrix

27F - maroon-grey
pl xtl tuff (maroon
same lap. frags incl)
to 50 m E of OR8-2

- bedding is not
obvious but good
be ~ NS / 70°W???

OR8-2-17 15m

- top of knob
above cliff + W of snow
- mas. maroon
grey lap tuff + vol. br.

N. towards 28A

first len. maroon -
grey lap tuff
(w) some len. x-cut. b/c

then somewhat
fol. rel. mas. pl.
porph. (w) hem. streaks

KQ-88-28A ~ 120m N
of OK8-2 1716m
on steep slope N.
of snow

- variable sheared
& alt. pale gr.
serc. vol. by 28A
(w) sheared dark
clasts - minor
rusty cores

~ 60-70m W to
stream & rusty
rocks - branch of
Brucejack fault?

~ 5m W of stream
1710m rusty weath
py - serc. py grey
alt. vol. rks.

KQ-88-28B - ~ 5-6%
scattered med. sized
py cubes

- only v. minor $\frac{1}{2}$ 26
stringers - perhaps
more siliceous toward
Br. Lin.
py alt. zone \approx 40-50m
wide - doesn't
extend N up hill

- 1630m \approx 30-50m W
of Brucejack Lin.
KQ-88-28C - py ser.
alt. rk. (vol?) schist
- small isolated o/c
in rusty talus

- went W 40-50m to
snow & then S $\frac{100-150m}{down}$
rusty slope bed he
o/c - some gossan
blocks just before snow
& KQ-88-28D
- at NOL NE 3357
- low ^{surveys} o/c ^{marker} grey ser. ^{crystal}
(minor py 1-3% oxidized
alt. sl. schist vol.)

alt. pl. porph.?

- some rusty py
fractures & joints

- ~50 m W 165°/vert
very poor on bedding

small glaciated o/c
- small area of bedded
tuff? assoc. lap tuff

~20 m W near snow

^{156°} 246°/80° poor
foliation // to fair dip dir.
lin. ~50 could be on fol. near lin.
related to fault)

- ~30 m S to small L.

248°/70° fair on bed.

^{158°} fol. grunge w/ water,
alt. shale to med. grey
fol. sericitic - vol.

some br. or lap tuff.

^{view of}
at lake - KQ-88-28E 1555m

- most o/c are rusty
(w/ leached? py?)

- some ^{rusty} grid alt. along fault

- ~100 m? N? pt of fol.
rusty serc alt. vol. o/c

just above snow 27
28 F - at stream

~ 80-90m W along N
side of snow. to
one of Golden
Marmot Zones

~ 6m wide NS/stk

qz-serc-py schist
zone @ ~ 20-30%

qz stringers & veins
somewhat leached

but some py qz
sp tetrah. & cp KA-88-29

- also large EW qz
vein system
about 60 N uphill
& to NE

* - new zones found
by Rich Leep &
Bridget Bawler

- ~ 60-80m W contains
some py alt ser vol
w few qz veins

~ 70-80m down slope
just N of Snow
draw

possible
alt. arenite
???

29A ~ more uniform
but ~ same py
~ 2-4% sec. alt. v. alt.
~ 5m NW of Sunny Sta.
GMP-2

- ~ 20-30m v. above
their camp

- possible py bluff
alt. arenite past
sta. to linear draw
to S.

~ 50-60m??
- across draw alt
py, sec., clv. ^{pink top?} but
arenite ^{immediately} ~~dark~~ ^{dark} ~~base?~~

interbedded
siltstone
cleared

KQ-88-30A

- across hillside to S
above Rich's & Brian's
camp

clv. & py alt
buff arenite &
some siltst.

but too alt for to 28
see bedding
- ~100m S knob above
their camp less alt
py grey arenite 30%
+ then more alt 4 py arenite
& siltst to 08-3
126°/68° NE
poor on py alt
pale arenite + siltst.
30 C
~100m N of 0

0R8-3 - 1470 m
- sl pt of it
in snow just (20m)
N of lineament

136°/78° NE poor
on bedding ^{low} 5 SE0
contact pebbly arenite
& siltst.

- py alt sed to
lin. & long conc.

1498m W of snow patch

$148^{\circ}/64^{\circ}$ NE fair
or bedded ^{dark} grey
siltst. & clay stone

minor
sp

KQ-98-30D

~150m SE of ORG-3???

~70-90m E? uphill

30E

- across snow
into pale ^{seric.} arenite

30E - 1535m

bench typical
pale seric. alt
arenite. neg. 1/2

~30-40m E? uphill

15452

$153^{\circ}/68^{\circ}$ NE poor

on bedding
arenitized slate

$171^{\circ}/75^{\circ}$ E poor

on slaty cleavage

- slaty siltstone +
immature sericitic arenite
uphill - bedding generally
indistinct

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by
~ 70-80m^{???}
E^{??}

29

1560m - high part of
30F ridge^{dark grey ss} Chloritic siltstone

@ some py xtls - trench

nearby @ sheared graphitic arg.
~ 70-80m along top of ridge SE

1565m ~ 70-90m before

Storage tank ~ 20m
area top of ridge @ granule
+ pebble gritty med. grey c.g.

arenite KQ-88-30 @ typical

@ f.g. fol. grn siltstone @ py patches
nearby

bunkhouse
(camp) elev. 1548'

Summary

- 1) Pale arenites, grey + grn arenites
& siltstone are closer to
mill + Gold Ridge Zone
than I thought previously.
i.e. Sed. vs. contact is further
east
- 2) Possibly (?) pale arenite siltst.
grade up ?? & laterally ?? into and
crystal grungy silt unit ??
- 3) Some sedimentary rocks
immature boulder conglomerate + arenite

E of Cateau at base of
Mount John Walker
with pale sericitic, py
zone above to E or else
in fault(?) contact

Sa

- 4) in serc., fol., py alt. rky
contact between pale ^{vol.} _{mas.}
arenaceous sed. & vol. rks
is difficult to determine
- 5) immediately NE Cateau camp
same ^{unaltered} heterolithic andesite
breccia occurs on both
sides of Brucejack lineament
- 6) KQ-88-29 Quartz vein
system found by Rich
Leep & Brian Bower (2-3
days previously) is interesting
& seems to contain some
black vitreous tetrahedrite
(Freibergite?) as well as
py, sp, gn & cp - hopefully
showings in area will
contain good Au & Ag

S. of Cataract 30

Camp

Sat. Aug. 6/88

Sunny

- but late start
because of morning fog

- started @ @ R8-1
but assumed
1540m instead of
1535m elev.

- continued to E across
Br I. Lin

- ~30m past Lin
034°/79°NW road
on poor level. fol.

- some 'fol. in draw

- 11 Br I. Lin

- rocks are
massive grey seric. alk
pl. porph? (w possible,
subtle frags.

- no hetero. br.

- ~ 20E of then ~ 20-25m
wide v. sl. rusty
but more fol. (2 dir)
gm. pl. porph. (subtle br?)
and. (no visible py.)

- ~ 20-25m E top
of small knob 1552m
KQ-88-31A typical
med. gm-grey, sl fol.
sl. alt. (chl, ser) rel. mas
and. (possible subtle
br. @ relic 'pl. phenol)
- some subtle frags
near snow to l.

- to S down slope to
Ice Berg Lake - a
great variety of
gm. vol. br. & rel. mas.
units - chl. rel. matrix
breccia - some might
be ? bedded ~ NS/10-70°
& overturned??
- local chl. relic Lb
- some @ sl. rounded clasts
to 30-40cm

20.25
city
lin)
br?)
e. py.

KQ-88-31B ^{v1522m} 31
~10m E Brs. Lin near
lake - from typical
med. grn-grey metab and.
but one of more massive
units - minor dark
clast br. near lake

52m
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to
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- to W across Brs L.
some good o/c of
dark clast grey grn
and. br.

as
Wri
ight
0-70m

30m wide
sh. - chl. shear zone on hanging
+ serc. @ 10m in centre only
minor dark grn
125°/76° NE poor on

fol. on knob of W-S of
flat at str. junction
rocks are more fol.
near flat trending toward
Gold Ridge Zone + partial
o/c is sl. rust.

~10m NW 030°/60° fair

120° dip dir. on fol. (becom;
schistosity)
31C serc.-chl. (W) obvious pe oxidized

obst

- grades to S over w
30+ m to chl.
schistose dark clast
and. br.

- across snow filled
draw to S - same
sch. dark clast and. br.

002°/60°W poor
on foliation

31D - ^{met.} chl. ^{alt. fol.} dark clast (not
visible in pic) and. br.

OR8-4 - 1545 m

- NW end of
small pond on top
of hill S of Gold Pan
Lake

- sheared contact
grn and. dark
clast br. to N

4 sh. maroon-green
crudely bedded
(sl. pl. phytic) and.
breccia - 1 block
80cm mostly - 20m

- 111°/85°N poor or
possible bedding

in vol. - mainly br 32

- only local (1-2m) areas

⊙ rusty rocks in region

- but some ⊙ pale grs -

ser-py schist & g. veins

(at many dif. ft. orientations)

- some vol. br ⊙ rounded clasts

col. cgl appearance

- ~ 30m W of ⊙ complex

white weath. late ^{med.} grn.

KEO-08 diabase dyke @ mine pp

32 - good ophitic texture

- @ least 3m thick

- in o/c can see evidence

of at least 3 or 4

injections @ possible

liquid immiscibility textures

(A very diagnostic dyke)

- ~ 25m W same unit

116°/80°N fair on

same bedded vol. br

~ 20ms & fuffe

108°/85°N fair to good

on reasonably well-bedded

grn vol. br. 1-2 m
beds & some tuffs
- some heterolithic units
- possibly some bombs

- 225-30 m S up hill
092°/85°N poor

on maroon & grey & red
bedded tuffs & br.

- possibly some immature
pebble cgl units

- dyke is exposed in

- bedding somewhat
convoluted & faulted
uphill to S

- at 1560 m top of hill @ loc

128°/76°NE poor

on grn chl. siltst.

to scattered pebble
& grit cgl - similar

to 30F W of water tower
but still some dark
green chert chl. vol. br.

beds in area

R0-88-33A - typical
of dark grn chl. mts.

- some small trenches 33
~ 3-4 m W of lin.

- small EW pond @
prominent rusty pale q-ser
py schist @ qz veins on N. side

33B 1 m wide W end, trend SE
to ~ 3 m wide?

~ 30-40 m E of lin

106°/80°N poor on
bedding in qz chls.
tuffs & br.

Red River

Pit

~ 30-35 m SE to KQ-

Kras sl.

miss
located
1986

87-121 trenched
area - large zone
qz-ser py schist
cut by qz veins

~ 50 m S to flat & 50 m
W to extensive
trenched area (1986
Catear) - ~ 1545 m

KQ-88-33C

~ 3-4 m NS trench
cutting 15-20% contact

(some pyroclastic) qz string
in pale qz-ser py
(as of?) - minor (traces
tetrahedrite?)
- photos veins

- ~ 60m W ^{at 33W} 2m NS
trench pu-serc.
schist 33D

then ~ 25m S - 2-3m
NS trench 33E
cutting qz ser pu
schist cut by
qz stringers minor
tetrah. - general
trend towards 121A vein
~ 70-80m SW?

- ~ 70-80m NW trench
21-3 ~ 5%? pyroclastic
qz veins in qz-serc.
pu schist 33F
- can see by block &
lap frags in and br. det?
- on trend from 33E trench

336 Veins in py serc schist ~ 60m W

(~ 080°? vein structure

- ~ 20-30m?? N

KQ-88 of 121A vein (~ 055°)

but not on trend

next tetrah.

- can see vol. frags + dlt. white scattered moderate size K-spar phenos similar to Premier horizon

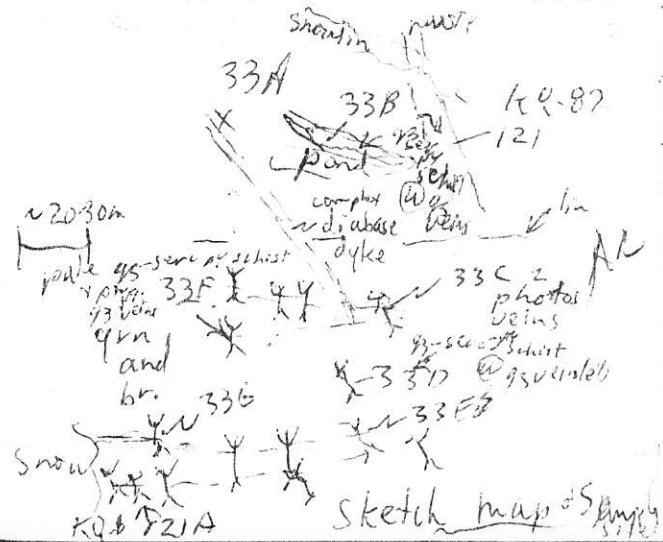
- took 2 more sample

121A vein (much

tetrah. + azurite + mal stains) - * was

miss located in 1986

st
-
3
3m
=
L
or
etc
each
make
r.
=
+ post
w



sketch map of Sample Site

- Multiple diabase dyke (~2-2.5m wide) trends to west of

33C

- ~ 70-80 m S on
large bold o/c.
grn & maroon - grey
sevc. clv. ~ EW?
trending faults &
minor vol. br.

KQ-08-34

1520 - at small lake

-25m ~ 5-6m wide

~ EW trend

intense 30-40%

py qb stringer

zone in pale py

ser. schist

difficult to sample

& amazingly no

trenches

no visible Ag min

- poor o/c in boggy

area to S & SE

fol. ^{grn} vol (tuff + brs) 35
in area

- ~ 70-80m SE

2 more isolated

rusty weathered gr₃ vein knobs

- but all sulphides

weathered out - only reason

veins stand in relief is
50% because of hard quartz

① R8-5 - 1510m

- top of bold

rusty - gr₃ veined

knob' ~ 20-30m wide

~ EW zone

mostly leached

~ 15-20%? gr₃ veins

in gr₃ sericite slab

KQ-88-34A

highly silicified v. r. b.

diff to sample especially

of veins

- sed. (gr₃ weath)

might be ~ 50% at

base of bluff

- area needs to be checked

- ~30m N up slope
good green and br (691?) S
∴ in vol. seq.
appears bedded
& cleaved E of
Br S. Lin.
& some good angular
deform abund.
dark clasts

- in most of min. is in
vol. - not sed. units ←

bunkhouse 1520 - 25th

Summary

- 1) Most of area is ^{sh. sl. alt} grn andesite
(or basalt) with numerous, diverse
grn. vol. br units
- 2) To S of Gold Pan Lake
1st dark clast and br, then
an extensive sequence of
well-bedded tuffs & breccia
- 3) Diabase dyke (2-3m wide) ^{sh. sl. alt}
& multiple injections everywhere
- 4) Extensive fractured area - well-developed
veins but not much besides py & hematite
- 5) To S of fractured area several ^{sh. sl. alt}

Catcar Stope 36

4/7) Sun. Aug. 7/68

Light rainy cold
windy

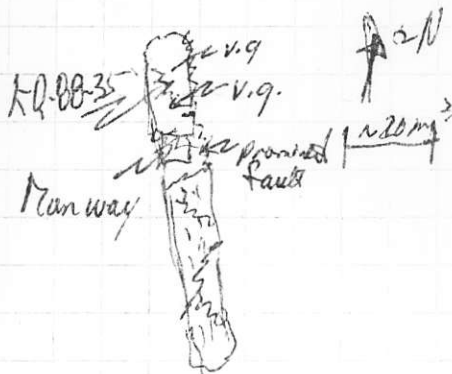
- pm went @ Erik, Don
Bruce, Bill & Greg
to stope ~ 20m
below surface under
bridge @ Glory Hole
- man way from surface

- didn't traverse because
of stormy weather
- vein is brecciated

- KQ-88-35

typical specimen of
"vein" (numerous qtz stringers
+ some carb. + barite)
from below manway
- north end of stope
- numerous clay-filled
gouge faults cut &
offset vein & prominent
steeply W-dipping NS faults

boundary zone on E side



Sketch of Stope

- py, small xtls arsenop.,
minor massive arseno.
minor ruby silver, tena (some
tena
asp. in
area)
electrum

- KQ-88-35 - no obvious
electrum but shows
other typical core
minerals

- late faults could
cut one zone
- some faults || zone

Electrum to West 37

Zone

Wed. Aug. 10/88

Sun & fog

- didn't traverse Mon. Aug 8/88 because of stormy, wet, foggy weather
- Tues. Aug. 9/88 rain & fog
- Bunk house 1540m (set)

ORB-6 - 1552m

- small knob on slope S. Sulph. Bl. ^{1556m} above margin just N of rusty gravel flat

- rel. mas. 7 m. from

f. 4.5 somewhat sheared & sericitic altered pale grey (gray) f.g. pl. - hb porphyry

KQ-88-364

- most hills to N & NE appear to be same
- some narrow zones

some
ferrous
sp. in
me

was
re

ld

white sil qz-serp py
schist

- ~60-70m N of 0

KQ-88-36B

~3-4m wide qz
calcite vein @ mina
py (tr cp?) @
heavy Fe + Mn staining
~070° / 70-75° S

- to E 20-30m area
bl. slate very silted
+ grey S.S
~then ~60-70m SSE
station

- over 5-7m?
good qz stringer 5-15%
zone in pale qz
ser-py schist
36C - @ possibly
some f.g. diss. asph.
E-W 75° or S fair
on qz veins
1470m

my
3
ina
1
u
a
1
SSE
5-15%
2
1
asp.

- wrote sample 38
number on o/c
(chips from 12-3m
apart - reasonably
representative of o/c)
- more rusty zone 4-5
60-70m
- to S + E mainly
same t. g. gm-grey
pl. - hb porph. @
scattered ~ EW
qz stringer qz - ser-p
schist zones from
10cm to 10m? wide
@ rel. unalt. mat.
between

- trend ~ E over track
@ show to S
variable alt + ser.
pl. - hb porph
@ broader zone
5-40m?? pr - ser
alt pl - hb 36% (1530m
on knob) without
290-310m
4% of 26L significant qz vein

~30m E ~ 165° / steep

lin (w/ Br J.)

① ~ 3-4m wide

o/p ⁴⁻⁶ ⁵ ss - ser - py schist

② ~ 15-20% ⁴ ⁵

some
pyrite
folded

stringer ~ 5% diss.

py of poss. minor
minute xtls asp??

KQ-88-36E

(typical)

- up EW snow-filled
draw faulted (sh)
unalt. py dark sedi

- also strong ⁴ ⁵
vein (15-20% ⁴ ⁵)

~~zone~~ trending

~ 0400

~~Not 4~~

(KQ-87-133)

(4-5m wide)

↑ to E
(36E) 075

~ 25m NW up lin

36F - similar

but ~ EW in alt zone

4-6m wide

- ~ 25-30m E

36G similar but
diff (~040^{0.7}?) un-alt
zone

- many qz un ofc
in qz-ser-py in
area but no signs
of sampling or
trenching

- dark graphitic shale
& siltst & pale qm
alt equivalent
to S + E in draw
to lake
- some S.S. toward 36j

- then went north
~ 4m V about flat
1537m 1st ofc
(vol. 8) alt. pl. h₀
north ~ 6m
wide pale qz-ser-py
schist @ some qz
veins ~ 5-10^{0.7}?

KQ-88-36H

(more of vein with
mat.) pos. some

65-70m??

v. f. diss. asp ???

1538m

~ 40-45m W of Br. line

~ 25-30m @ 0750

to sample site

KQ-87-133

(mislocated last lead)

~ 15-20m W of Br. line

- probably same

Zone

KQ-88-36I is

meant to come

from ~~87-133~~ localite

(- same sample site)

Newhawk Assay

RVT #88-1

chips over ~ 20cm

@ sample sit

HEAVY
TRUCK

~ to scale

small of standing

@ asp along edge

marked sample loc.

built cairn @ flag

- if trending 40
~ 075 / steep

Zone is ~ 4-5 m
wide but only
contains ~ 10-20%?

qz stringers -
some pyroclastically
folded & some @
asp along edge

- zone is (probably)
along contact bet.
dark sed. to S
& variably alt
pl.-hb porph to
N.

- similar 4-6 m wide
zone to W

~ 9-10 m W

365 typical

- broke ~ 3-4

places between - of all
seems to contain
some as (+ 7, + 7)

Electro
zone

J

of

15
9

led

70
6

512

24

2

me

me

me

me

~20m
E
of
36H

~ 30m further W

KQ-88-36L

(Newhawk Assay

RVT #88-2)

is from 3 spots (quartz)

1.0 & 1.5m separation

across Zone

(ie. ~ 3-3.5m width)

KQ-88-36L

~ 20-25m N

of 36 I (w/30°/step)

another py rusty

zone in alt

pl-hb porph

some 10-15% qtz

NW trend few

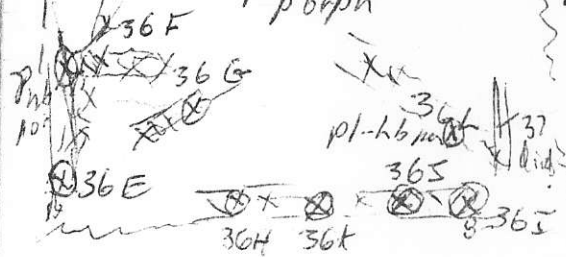
(3-4?) m wide ~ 20-

25m W of line.

AN

pl-hb
porph

41



sed

sed's

B.S. →
hor 9.

Sketch of Sampled
 of (py + clays) vein
 systems in gneiss
 schist at pl-hb.

~15-20m E in line

KQ-88-37 - ~1-1.5m

~1650/cent (1/2000)

fresh diabase dyke
 med grn. cutting
 alb. v. t.

- 2 more similar
 dia. dykes in
 & just E of line
- across line & up
 S flank Electro

Zone

- 1st EW of veins
in py-seric.

pl. hb porph
similar to W of
lin & then

more intensely alt
wh. seric. of py
(~5+0%) Schist

KQ-88-304

1575m ~ 200m?
east of lin &
lake ponds

~ 5+10m below
top of Electrum ^{vein}

- can see py
stock work in o/c
but few of veins

- to SE downhill
to 30m o/c in
snow South
of Electrum

alt. pale quartz ^{zone}

BY SET pl. hb porph

cut by scattered 42
schist & qz stringer

zones 38B

typical (inner asp?)

NW corner of

~100m SE of 35A

~15-20m SE to

top of o/c 40

DRB-7-1570m

- top of o/c

166° bearing to

isolate in ice

KQ-88-38C

typical pale grey

rel. ^{50%} _{max.} alt. ¹ _{pl-hb} purple

-headed N to top
of Electrolite

~100m

201°/61° fair

111° on fol. dir.
mostly highly
alt. pale ^{1/2} _{set} purple

Schist @ pu Stockwash
(~fract. every 10-
20m)

- a few patches
of less alt
recogn. ph-hb.
porph.

- ~20m N to top
of ridge at

Esso Trench 150
1600m

~150m 140°
to end of o/c
of zone

~5-10% qz veins
~|| ridge near top
of ridge

- mainly just fig. dark
py in vein & c.g.
py in wall rocks


- went along & across
zone & crossed

1500 down to N. Spine
Tr 111 BB 7-164

100%

sample

43

- mostly same
- w. sil. pale alt
- qs - serv. fr. alt
- @ qs veins
- some deformed
-  + ind.
- vein @ gash
- veins on one
- mostly just qs sp.
- some dark minerals
- Fr. 111?
- ~ 20-30% qs veins
- possible ?? more qs "
- to W'?
- N dipping fol.
- near trench 113
- (N. Spine?)
- next of c
- similar pale sil. fr.
- highly alt. rk @
- qs veins @
- very cherty rfs
- assoc. @ high
- py zone (~34-50%)

3
T

on N side

- some of qtz
has "semi" - chalcedonic
appearance of
difficult
of to
sample
high alt sed?

~ 200m NW or 100 E
BrS Lin 1535m
KQ-88-391A

- similar pale siliceous
py alt nk (w
~ 10%¹⁵? qz stringers
- local zones vol?
br & graphitic sed

Some vol. br. visible

- ~ 200m ENE across

snow 1555m

typical KQ-88-391B

- same pale py ser sil
alt. nk (w qz vein
(local, dark sp & qz
but not in spec.)

- ~ 15m N just
below snow - filled
draw 39C (marked on
similar mat. but

① ^{py}ndurt sp gn 44

in qs veins
- some white sil p₁ alt.
rk

~ 70-80m NE (030°),
across draw to
Esso trench T-102
Galena stockwork
Zone?

(new picket 27+20E
55+20S)

- ~20-30% qs veins
in area BB tag

② fr 107

then to knob ~70-80m

N of T-107

~ 30-50% deformed
pygmaic qz veins

some
sed units
bet. veins
(untrenched) - vly
well-developed large
deformed qz vein

stockwork in area.

+ should be studied
closely

- then headed N 100m NW

toward KQ-87-137
across draw
(w possible fault (w 30% slip)
- qz veins disappear,
& fresh blocks
relatively unalt.
pl. hb porph -
(post most veins
& alt.)

E of draw
025°/77°SE fault
~1520m on well bedded
on upper steep slope
+ X-bedded
arenites?
~15-20m E of pos. fault
~5% qz veins

near new pickets
28 + 00E 54+00
most o/c are leaded
KQ-8840A - rel. mas.
buff alt.
arenite

- from ~100m NE fault
light & dark alt. seq.
cut by ~10°/10° qz veins
005°/82°E fault zone

in creek & under 45

snow bl. arg

(w) numerous qz veins

- ~ 30m NE steep slope

above snow 1470m

sil. & brecciated

& qz veined bl. sed?

40B

v. chert nts

- not widespread
& doesn't appear

mineralized

base of large sil. to s

- scatter of pale

alt. sil. fractured

qz ph py alt sed?

- ~ 200m? NE 1450m

pale sil pu serc

alt. nts (w)

~ 1-3% qz veins

40C

+ 3-5% dia. pu

Newhawk camp 1379m

(met Mike Guinn V.B. grad geol -
Norm Tribe + Dave Handle in Stewart
Tom Drown - underground - ^(Murt?)
island?)

- lower Gossan Hill many EW

qz veins - could be
fault ~NS/70-80W ~20m from
W end that may bound qz vein

Zone - higher on Hill
(to N of 1st high knob) lesser

alt. & few EW qz veins -

serc. alt. pl-hb porph? for large
area but not rock as felsic as

Eye on it

150-200m ~EW above hill

- large area unmineralized

qz vein med. quartzites

pl-hb porph

(minor K-spar phen)

~4km E Br I. Lies

NW corner of

NS/steep Zone ~20-30m

1460m

KQ-88-4/A

with normal material

41B - local high 46
grade? (bl. ferr.)
in trench #2
irregular 5-20 cm wide
qs veins
10-30% qs lens 3

~30m W Limestone

055°/80° NW
poor fol. in
quartz buff granite
- 5mW
070°/30° N V.V.
poor on bedding
sandy cal. layers
(too cleaved)
KQ-88-42 - typical buff
arenite bed ³¹⁷ above pebbly bed

50mW
- ~ 017°/30° W poor
sand buff arenite
& pebbly arenite

qs va schist zone @ OKB-5 is
not as white

- some ^{sh. mass} ~~supp~~ arcnites @ pellets
beds to W + NW

0560m
~ 50m N 7121 - W of Pond

088°/66°N fairly to poor
(faulted)
on bedding
in gen. fields & b.

Bunkhouse 1540m

Summary

- 1) I think I found the K₁-⁰⁰
133 locality (farther S than initial)
~ 4-6m wide 075° zone @
contact of sed. & pl.-hb. porph.
Might be able to trace for 80m?
Similar zone @ 360 but on S side
of dark sed. (also zone on N side
of sed. near OR8-6 but
didn't sample).
- 2) From S of Electron zone
to well (100-200m?) N of Gacna
Stockwork, very intensely
alt. (pale sil, qz, ser, p) & k
@ 45 to 75% irregular
deformed anatexis

286
quartz veins - a 47
very impressive drill
that probably geochemical
sampled, trenched, &
mapped more carefully
& eventually more
drillholes. some

3) Diabases & pt-hb
porph. (2 minor k-spar X's)
are largely post mineral
(i.e. KQ-87-137 locality)
but some of the most
intensely altered areas
are also ^{pt-hb} pt-hb porph.
Therefore, perhaps
early & late phases
temporally related
to hydrothermal activity.

4) KQ-88-41 (44B) locality
is similar to good
grade Coteau benches
to NW @ possible, date
ten. & is small bench
on edge of a well field
25-30m wide. 30m high