

Rea?

824194

1984

SUMMER

FIELD NOTES

Soil Profile  
TRENCH 97

- SP. 1. Clay rich, weathered bedrock chert
2. Not as clay rich as 1. Some silt, red/green
3. Dry silt/sand. Upper B red, mic. ferricrete
4. Sandy "B" immediately below organics (deep red)
5. Clay rich (green/red) Upper B.
6. Greenish clay rich till.
7. Red-green sand/silt just above 'c' (Basal B)
8. Poorly cons. ferricrete - red - Upper B.
9. Organic layer immediately adjacent to ~~SP. 4~~  
SP. 4.

28/5/84

HEAVY MIN. - STREAM SED  
ORIENTATION

HM-0-1

Homestake Ck. 30m below  
mine road culvert (Road to  
upper adits)

- very fast flowing
- sed from edge of active stream  
both sides

= 25-30 sieves needed to obtain  
sample

- large proportion of coarse gravel  
hard to get good fines

HM-0-2

- Homestake Ck. 40m above  
sluice

- slower than above but still  
moderately fast

- sand/gravel bar in mid creek  
moderate gravel component

- 10 quivers for sample

HM-0-3

- Horse Lake Crk. As 2 but  
on creek bank in quiet spot  
sheltered by boulders

- ample sed 2 1/2 - 3 swives  
only needed.

- mainly fine sed, a little coarse  
gravel and organic matter

HM-0-~~3~~4

- JOHNSTON CRK, ~ 75 m  
downstream from  
falls from a  
small lake water

- sediment fine  
sand to pebbles,  
some organics

- 5 1/2 x swives



HM-0-5

- small creek crossing RE access road  
40m short of the final landing
- Sample taken mainly on flat spot  
before culvert (uphill). 2 parts  
taken 20m below culvert.
- 10 swives
- two creeks join here
- concerned that some material may  
be overburden rather than sediment  
Tried to avoid this by not digging  
too deep
- mainly sand & gravel. Some clay.  
Moderate amounts of organic material
- Creeks drain both wall rocks

Trenches - RCR zone

L96+75

0+50 - 0+80 W

L97+00

0+40 - 0+75 W

L97+25

0+40 - 0+70 W

HM-0-6

- small creek crossing road ~ 100 m EAST of showing

- material mostly well sorted coarse sand but some finer material = abundant organics

- again, could be overburden

- 9 sieves

HM-0-7

- Homestake Creek where it crosses RG access road.
- below culvert
- 2 1/2 sieves
- good sand with some gravel on bars in mid creek.

~~bes 765 765.~~  
Au p/b

1	900
2	235
3	590
4	25
5	50
6	380
7	45

## Scotex CLAIMS

- several beaches along a  
disrupted iron form

← main trend

② tunnel above track shows  
mineralized conglome & chert chert.

③ above that - best values  
→ 4900 ppb      2200 ppb / 3.3m

Jim Simpson

④ cross & uphill to good exposure  
of Fe form, crossing mainly mafic  
volc on the way. Appears to be  
out on a body with less fracturing  
and only local qtz-carb zones  
prob following jointing (across body)  
sample 64455 (MTH) (no assay yet)  
No grab.

⑤ wallrock to above is qtz-carb  
py altered basalt - Sampled

⑥ Traversed to L 105

Numerous occ. of iron formation  
often juicy looking. Best stuff -  
structural disruption.

- Lots of Fe calc - basalt
- along 105 there are exposures  
of a gilly felsic  $\rightarrow$  pyroclastic

May be Fe form' is at contact  
between these (Sampled felsic)

PLACER SAMPLING

June 6<sup>th</sup>

Trench 97+25m

#1. 0m Taken from base of trench  
Sample is yellow-orange, clay rich  
No boulders - ~~is a~~ residual  
Contains fresh sulphide crystals  
and fragments

#2 -1m from brown ferricret  
rich horizon at base of B horz.  
(-40cm from top)

#3 +8.5m. Ave of 80cm of  
which 40cm is fill with a basal  
clay 40cm is residual & weathered  
rock. (Taken from just below sed contact)

#4 -10m 45cm of sandy  
fill only here Organic layer  
removed bedrock weathered but  
won't break up. Several boulders  
→ 25cm. (15%)

Trench 97+00

#5 @ 11m

Base of soil - ~~weathered~~Heavy clay with complete range to 20cm  
boulders

#6 @ 11m

Upper B horizon Red-orange

dry clay - sand size with a few pebbles  
to 10cm. Glacial

#7 @ 1m

Mid bank 11m above weathered Fk

grey-reddy gray with weathered bedrock  
fragments. Equal prop. of clay-silt -  
sand & pebbles. A few bldgs - 30cm

#8 @ 21m 11cm above base of

trench. 1.0m above weathered Fk

pyros. Glacial - mainly green-grey clay  
and silt, some weathered bedrock frags,  
10% boulders - 35cm#9 Tr 97+25 90cm above #1, 40cm below #2  
similar to #1.

June 23<sup>rd</sup> - Fortune / Alloy

@ 167° to barn +135m <sup>(vut)</sup> from road - 1m  
beneath scintic - chloritoid schist

Plunge 42° / 330.

Old on way up hill appears calc  
At plunge beneath gneiss beds show  
strong folding - Stone overlain by  
dt, argillaceous fragmental (sed)

- best chloritoid development is in  
less altered - gray, ruddy looking <sup>Bcs 790-</sup> specimens  
<sup>Bcs 789</sup> Stripes + ss + sil overprint it. The dt  
fragmental occurs with chloritoid too.

- two AM samples taken high up in  
bottle ridge zone.

Bcs 777 1. Chip over 1m

Bcs 778 2. Grab of porous, gneiss material

Further E but still not as far as X roads  
Df bedded chert / coals 100 / 30N Plunge 40 / 30N

Adits are E of X roads. To be examined  
another day.



REA-AUSTIN GARD

Jun 4<sup>th</sup>

BL0 | 97N

① Quit fissile, mafic, ch<sup>l</sup>c + ta seriat  
with brown carb spots locally rare  
massive. Minor qtz-carb veining. Main  
foliation varies from 110-120 (SSE-6SE)  
2<sup>nd</sup> foliation locally seen but not measured  
Dipth wavy about a NW plunging axis  
(again not measured)

Dark green fresh surface with tan ss.  
Weathering variably slates grey to carb brown

June 8<sup>th</sup>

TRENCH 9600N

① West from Port in trench is entirely slaty argillites with minor wacke. Shear at  $143/71^{\circ}E$  is rusty, sericitic, incompetent and imparts a local parallel foliation. Main foliation seems to be  $105-130$ , trending to  $105$  away from shear.

Towards -5, qtz-carb veining picks up accompanied by sericit-carb alteration. Main shear starts at -10. Again  $\sim 140^{\circ}/47^{\circ}E$ . Original foliation again becomes ~~with~~ masked.

Main shear goes to -27 $\frac{1}{2}$  where mod foliated mafic intrusion as flow are present. Shear is altered throughout with irregular qtz-carb veins with minor pyrite and a greenish, coppery stain along fractures (Massart?)

More Massart diorite / flow also contains numerous erratic qtz-carb veins with minor py (cut sample). These do not have sericit but the rock is pervasively carb'd.

Jun 8

① (cont)

~~The last~~

From  $\sim 22$  m to  $\sim 27\frac{1}{2}$  m the shear zone is within diorite/basalt. Below that it is within seds.

Veins are generally in the plane of foliation which locally wraps around them.

Chip samples to be taken for obvious gold potential.

This seismite shear is definitely not the San pyroclastics. The matrix is equivalent to the coarser diorite in drillings though appears more sheared.

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June 10<sup>th</sup>

TRENCH 96+75

- ① First exposed E of central pond is a brecciate with blocks up to 35 cm dia of barite (dark v. sulphides) and smaller frags of seismite wallrock. When this gives way to rock it is a highly seismite? thymolite? - has a few Qtz eyes and looks more siliceous than drill core wallrock.

except possibly for stringy areas.

However this has little or no min.

Foliation is  $129/56E$ .

- clay gouge cuts through at  
(5cm)

$121/75E$

- string joint set at  $211/85N$

Sampled for WR - Rhys?

In places the rock contains shelled  
fragments of calcareous material with mod.  
diss'd py (-cpy). This is particularly  
true towards the E part of the  
exposure (btm of bed?)

This is either hangingwall or  
a structural repeat since both /S  
are present further E.

Base of Johnson pyos is quite erratic  
where exposed in 97400 to 100'

97100 Trach

Again main sulphid barite zone is covered by these ferricret as we reach the HW pyros. Fragment type allows HW/barite location to be approximated\* Bas/Sul is more difficult since sulphid frags are not well preserved and blocks of barite have migrated down slope. In Massin barite can be encountered by digging.

Footwall is intensely sericitic with kaolinite veins and paddy grey chl-sulphid areas. Overburden above it is deep red to orange. In contrast old over barite/sul is only slightly red. However I suspect that this is mainly till as opp to residual soil.

HW/Sed contact is marked by a graphite-grey clayey gouge as ind. on map. Also present is some broken up qtz veins w. minor graphite.

\* Where ferricret overlies HW it seems most frags are pyritic ruddy stuff.

June 187

Main Shearing Area

99+75 trench.

Well exposed Fw sequence of siltitic tuff with local chert, graphitic chert and graphitic tuff looks quite felsic due to silicification accompanying pyritic stockwork mineralization.

Two foliations are apparent. The more southerly one (130-140°) is dominant away from S<sup>1</sup> but the shallower one (~120°) becomes increasingly strong towards S<sup>1</sup>. Close to the contact there is quite a lot of cordierite suggesting shearing days the top (struc) of them. Some clay gouge is seen.

Moving eastward and up to 550-600 (180m) into a gully with intense chloritoid in phyllitic rocks.

F080WA

July 12<sup>th</sup>

L99N - East from BLO.

To 3475 E walked - all cut - little or no dlc. Turned uphill (SE / gids) at 3475 to examine large dlc between 97 - 96.

① Massiv, extremely siliceous ~~light~~ chert. Appears to have rubbly sections but unable to see actual frags. Highly qtz indurified. Hard to break SFR a chunk with no qtz. Cliff is on w/w side of dlc. One boulder reveals fine ~~thin~~ larvae.

Watch to est. a principal vein direction. They go all ways REA BX!

② From ~~top~~<sup>chert</sup> took trail past 97/5W and up and around hill.

- Excellent exposure of mafic magnetals, similar to 27k - Adams mainline.

Strike 130/40 E - strong carb reaction

- give way upwards to more massive looking Fe carb rich (+ magnetite?) mafic which also has strong carb reaction

- give way again (all this over 12m) to gilly looking R carb<sup>rich</sup> material.

- the shear ~~is~~ gone with sinistral movement

now occ. by 1.4m of mineralized  
 after-csb vein. Mic is Ag-Cp-Sp (gr<sup>2</sup>)  
 ~ 2-3%.

Chip sample of above.

BGS 774

0.33% Cu, 0.06% Zn, 27 g/t Ag  
 < 0.05 g/t Au

Beyond this shear back to  
 mafic frag<sup>l</sup>. What thing may  
 be an alteration selvage around  
 the vein with texture lost although  
 the massive mafic/gitty boundary is  
 very sharp.



June 13<sup>th</sup>

N along line 100/99

- large alc of Pea Bx at L+75N  
on L100.

100+10

4+65

bedding 105 | 37° NE

- Locally poss to make out ~~the~~ <sup>weathered</sup>  
fin bedding / brecciation. Also some  
surfaces within bedding quite well

- characterized microscopically by sparse  
SiO<sub>2</sub> with occ. milky x'tals of leucocran  
(the remains of the ash component)

- if this is to be as well exposed  
elsewhere - need trace element work  
done on drill core for orientation.

- graphitic section located 15m downhill  
from 4+50 picket in cliff nr base.

100 → S

Seds exposed at the south end  
of line 100 along the road and beyond  
100 | 25 are bedded muds and silts with  
beds generally < 20cm down to a few

mm Numerous pass way up indicators

exist - consensus being tops SW.

Bedding / fol<sup>n</sup> are quite distinct in

dip but similar - azimuth (see map)

June 17<sup>th</sup>

Main showing area

① On main road N from clay gouge.

Alternating cherty / sericitic beds of Red Br pass into intensely altered Fw. Hard to put a precise contact on because siliceous stockwork mineralization also gives a cherty appearance. A distinct orange / pale yellow color change 10m from gouge may or may not be significant (the contact →)

- Because of nature of cut good strikes are not possible.

- weak stockwork rim characterized by grayish qtz-py sericite in strongly sericitic (+ silicified) rock

- chlorite alt. quite prevalent from 20m to 33m from gouge. Appears to grade into good black chert / breccia so may not be chlorite.

- good bedding direction in chert 150/53E  
Schistose R<sup>h</sup> at 118/73E. Also are parallel bedding.

②. Close to collar of R63 - good FW  
intensely fol'd rusty incompetent ser. qtz (some veins)  
killed to gently warped with a shallow

E plunge

③ ~~WELL~~ NEXT SHELF UP

At R6.6 collar well fol'd yet quite compact  
Mafic is well exposed. It is locally sheared  
and sericitic but is normally grey to reddish grey.  
Lapilli size frags can be seen. It is not always  
obviously mafic, locally being bleached, but generally  
does not appear nearly as altered as nearby rocks.  
Contact with those beneath structurally is very  
sharp, marked by a deep red, limonitic  
zone 30cm wide and a distinct increase  
in sericitic.

cut plat of above shows high cal.  
lap. size frags - note of those show textures  
which is sericitic qtz, cut by thin  
veins

④ Trench 100

Johnson pyrox at quite an angle to  
the FW rocks. Zones of carbonate chlorite  
with 50-70% carb rhombs, occur in unclear  
patterns.

June 30<sup>th</sup> Rea Road out

75 m NE of Pa Creek.

interbedded grey-brown argillite / siltstone. Mud  
flattens dip than up road to NE. 120/33°N. V had  
to get bedding strike/dip.

Small Road down from 150m SW of Pa Crk (@K760)

Fairly coarse grit 141/47 E. Gray granular, some  
blue qtz xstals. No frags. Similar to grit w/ of  
L100. (BCS 791 + cut sample) with black specks of  
biotite? throughout. Remarkably similar to nearby  
"Mygale" except for the biotite and a generally  
greyer color, grittier texture. But probably  
derived from it.

"Mygale" in these first exposures is reddish  
grey with ~1% qtz eyes (locally more) and  
4-5% Fe carb (loc. rare). It is cut by  
bleached zones of sericitic alteration.  
It is probably ashy but may be  
somewhat reworked.

BCS 792 is of regular reddish green, fairly  
fossiliferous. See cut slabs for det.  
textures.

260/35 N

bedding

133/51 E

fol<sup>n</sup>

Above measurements taken in side on SW side of Mygale. Interbeds of dark argillite and a siltier material. Good grading indicates tops N.

100 M

from

Km 19 post

(~~S~~)

On other side of gully. Coarse andesite - dacite pyroclastic with good quartz eyes. Green hornbl, altered looking  
Fragments 10cm + in places

120/44 E or fol<sup>n</sup>.

Slab Descriptions to accompany June 30<sup>th</sup> notes  
and Map (1:10000)

Rhyolite from the obviously fragmental area is composed of sub-ang to sub-round lithic frags (qtz-fic with occ qtz eyes) in a crystal mush of the same composition. Frags are  $< 2\text{cm}$  in slab. Frag edges are not always sharp suggesting hot flow. A single, possible juvenile clast exists. It is finer grained, slightly darker in colour and pyritic. It is  $2\text{cm}$  long and arrow shaped, distorted by draping over a lithic. Saph is dominant matrix supported.

Conclusion: -

lithic rich pyroclastic flow

July 2<sup>nd</sup>.

- Upper Road above RF (K7).

- ① Silt - silt lapilli till with  $< 2.5\text{cm}$   
light grey to brown speckled lapilli and numerous  
white lithic fragments as feldspar xtal frags.  
Rare quartz. See photo  
BES 794.
- ② Silt now strongly bedded, wavy-striated  
siltstone with some py. Distinct foliation  
change combined several times. Qtz eyes  
usually distinct to variable number
- ③ AP siltstone (massive) separated from  
qtz- pebble cong. by distinct gully which  
runs up the hill. Foliation is not altered  
but has same cubic py ( $< 1\%$ )  
Latter lies eastward and is strongly  
foliated near the gully.  
Foliation 116/48E (F<sub>1</sub>) 100/80N (F<sub>2</sub>)  
Gneiss developed with plunge  
of 40° @ 090.
- ④ Grit. Becoming intensely bedded toward prob.  
fault approx 100/48N. Beyond short gap



w o/c numerous in opening is mod bot'd  
at 145/512.

- ⑤ Abrupt change to basalt/and 130/55E  
Massive - w/ky fragmental, Dark  
Unfractured, Appears interdigitated with  
Thyolite. Distinctly fragmental locally. Hard to  
tell whether it's a green Thyolite with  
qtz-eyes or a pale basalt/andesite with  
amygdules.

50m in (650m S from corner) coarse  
fragmental andesite, as seen at way but on  
Kanad cliffs is well exposed at roadid  
Fragments are elongate but rounded up  
to 20cm long and usually coarser  
grained than matrix with distinct  
feldspar xhls or xhd fragments.

- ⑥ Still interdigitated Thyolite/andesite.  
60m up hill is excellent o/c of  
green Thyolite with qtz-eyes and numerous  
lapilli size frags.

July 14<sup>th</sup>

Old Grid, uphill from U00

(1) Pad of RG-9. Bleached pgs (strongly)  
fair massin (silicified?) not ratched like  
below. Sections of kbb/tan cells with  
green mica. Not obviously cherty, no  
graphitic areas. Fol<sup>n</sup> 133/50E

Tr 99+75.

Blasting and digging to ~18' failed to yield any fresh sulphides or S<sup>2-</sup> gossa. Two sulphid rich clay zones do occur. One is in the RBx/JP fault, the other ~1.5-2m into the FW. The main fault abruptly terminates foliation (bedding?) in JP, dragging it slightly, suggesting JP up w.r.t to RBx. (See photos)

Chip sampling required;

## Trench Samples - Chy

97+50

1. 0.35m pyritic muddy gouge imm. adj to Muddy t. fr dip surface 135/55E
2. 1.0m strat. above 1. pyritic, grey, ch'ic? some qtz veiny. Pitty weathered.

The next low section is Pericard again  
Full of sinter, qtz, just as in HW  
up the hill!

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July 24<sup>th</sup>

Move Trench sample

96+00 sampled in 2m sections (along ground) from 30m → end of o/c at base of slope.

96+50. 5 x 2m samples from first o/c at W end of trench (28m)

3 eastern-most samples are ess. 2m True.

2 western ones are in highly carbonated zone

July 9<sup>th</sup>

Austin-Apex-Kanad  $\Sigma$  area

- ① North trending road hits grid ~ 1+200 on L83. Two olc on way up the road are mafic fragments of the Austin-type. They have lapilli to small block size frags, may be light green with dark vesicles and are quite strongly carbonated (Fe + Ca). Qtz-calc veins are not uncommon.

BCS 2826 character sample

- ② West trending road stops just before creek which separates gite and gte-ctte seq. pebble conglomerate from low <sup>good leucocr. mag.</sup> kof which is ceded by diorite (a la lower mafic). On south flank of kof at a landing more normal lower mafic along with far east-seq (some green) alt'd San Pysos and bleached seq(-sil) alt'd pyritic material. Relationship again suggests that San Pysos may just be altered Lower Mafic.

BCS 2828 of pyritic stochwork

9/7-4 wet slab. Pyritic poss trsp.

3) Progressing E the road starts around the knoll with exposures of massive dark, relatively unaltered mafic lap. t and highly calc-ses alt'd mafic lap. t. On the E side of the diorite a broad zone of spotted alteration can be seen with grey-brown spots up to 2cm across showing up as dark against a lighter matrix (see photo). The road then  $\curvearrowright$ s through a broad gully. Within gully, altered mafics and intensely foliated graphitic argillite are present. On other side of gully a fairly competent light coloured rock with 'feldspar' (with spots), Fe-carb and weak but pervasive calc-carb occurs. Johnson pyrox ? 19

White spots are Qtzose - disrupted veinlets  
 - contains a few Qtz-eyes in Qtz fpc matrix  
 - occurs as veinlets and also numerous brown rhombs of Fe-carb disseminated throughout

#### SPOTTED ALT.

- caused by circulation exposing calc-carb laminae  
 - matrix quite Qtzose w. white quartz? vesicle filling?  
 - no fogs

July 9<sup>th</sup> Secondary Road from 16.85 km. Loc.

0.15 low, 20x10m o/c on west side of UT bend.  
Massive tholeiite. Fine gr. Slightly gully  
look. Fe carb spots.

0.3 Cross Horsetake Ck.

0.3-0.875 Flat & bouldery

0.875. Cross a small swamp.

1.7 km low o/c (2) 5x10m UT S of road.  
Strongly foliated mafic, possibly fragmented.  
Numerous carb-qtz veins 140/80E fol<sup>n</sup>  
BCS 2832

2.3 road ans @ 135° on RHS of pronounced  
gully of same azimuth. Cliffs of o/c  
on far side of Creek.

2.5 3x6 o/c on RHS of road.  
Intensely carbonated -qtz-carb veined  
mafic BCS 2833 of fine gr. qtz-carb  
vein (2-3% only) 0.65m width  
160/59E

2.75 km two small of c 30m apart on landing  
strongly fol'd, carb. qtz veined mafic

2.95 another of the same on RHS of road  
2x5m

3.05 20x4 of c RHS of road  
More massive mafic but still quite  
heavy qtz-carb. 140/60F

3.15m Small pond 50m L of road

3.75km Road doubles back to L

3.9 km Joins with road coming in at station  
right from right  
(start from here again)



July 18<sup>th</sup>

20km W to corner of cliffs

(1) 2<sup>nd</sup>-clt pebble cong. 105/46° N Pol<sup>n</sup>  
< 2cm pebbles - clean in terms of frags  
but matrix quite ser<sup>c</sup> Slightly rusty  
weathering. Sarah

(2) Proceeding W. along a 120° ridge ~~course~~  
got to 6m pebble cong is underlain by  
argillite with well developed dol. rhombs  
Foliation is still 105/50° but a second  
Pol<sup>n</sup> @ -120° is app.

(3) Proceeded due W. Kroll on right is  
andesitic - no obs frags - zones of intense  
Fe-cath (dol. rhombs) (076°/47°) (slumped pos)  
BES taken here  
(102°/47° more reliable)

Becomes obviously fragmental downhill  
a little ways. Fairly coarse (ave ~10cm), angular  
andesitic

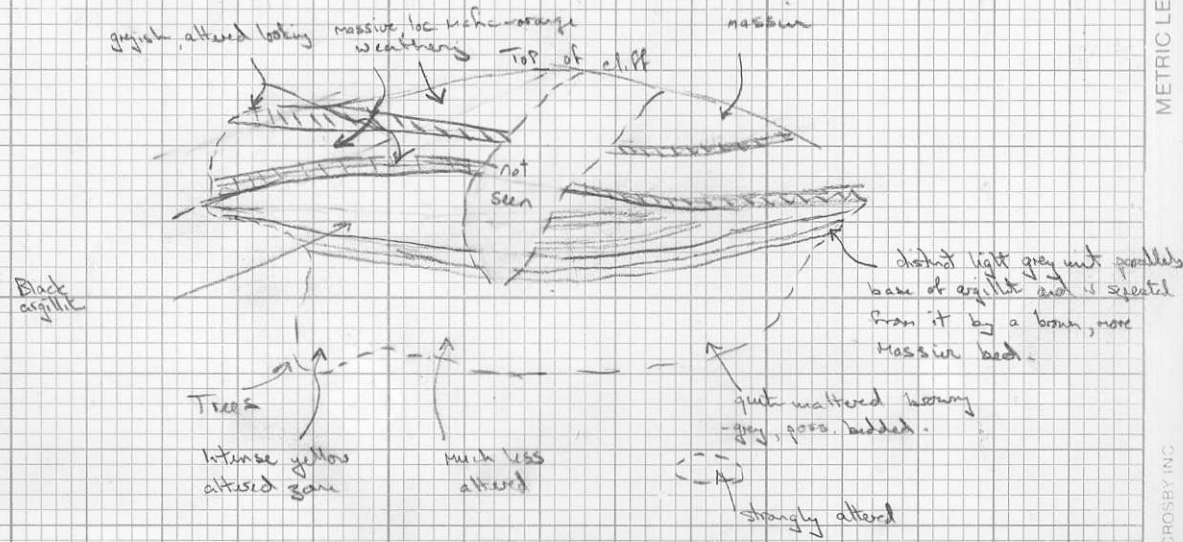
(4) At edge of cliff massive-red Pol<sup>d</sup>  
angular fragmental is locally highly  
magnetic (10%+ mt) and contains strong Fe cath  
rhombs. Unlikely to be andesitic in comp?

- 5) Following drift w the andesitic flow is closely interbedded with rare felsic phases - prob rhyolitic tuffs (or flows). These contain coarse py cubes and Fe-carb as well as msize fsp. Care must be taken not to assume these to be gits because they weather the same. Boddy 11<sup>s</sup> below. Felsic phase becomes predominant wwards BES

Mod ec. local qtz-chl veins

- 6) On point. Still and-dac. Strong Fe carb. ~~and~~ Well foliated jointed spotted rock due to carb.

KC-3. Area of Sediment near (A)



July 22 - Bay Clair cliffs  
access from km 10<sup>1/2</sup> RG road. (San)

① W side of pronounced gully  
Highly fissile, light coloured intermediate looking  
rock. Local strong Fe carb. Poss box (John  
type) locally. 152°/54N fol<sup>n</sup>. Schistosity  
feldspathic but not siliceous enough for  
felsic.

② Still same as ①. Distinct JP Bx.  
141/48N - Same as Corico's Siltstone bx?

③ Still JP and schist. Still strong Fe carb. Numerous  
fragments (Tuff Bx)

④ Siltstone/wacke. Subtle grain size variation.  
Doesn't get grit-coarse. Can't get fol<sup>n</sup>/beddy  
relations in situ but must be quite folded.  
Spalled pieces locally show high angle  
Numerous coarse diagenetic of cubes


⑤ Up through sequence. (Gritty base?)

1165m FeC rd J.P. Q.C. varied 148/37N

1175 JB Bx Elongate on ves. aug. shallow SE plung

1180 Highly fissile JP bx 133/43N. Arg matrix

gone to contact.

- ⑥ Intabedded arg = siltstone, clearly folded.  
 Foliation  $115/37^{\circ}N$  bed  $150/40^{\circ}N$   
 2 type minor folds. Can't get attached but axes appear to be  $11^{\circ}$  to foliation plunge NW?
- ⑦ Extremely massive, blocky ~~unjointed~~ mafic  
 Dark green - orange tuffaceous. Fg. Blackness  
 due to  $120/28^{\circ}N$  foliation and  $060/88^{\circ}W$  jointing  
 Becomes more foliated toward base. Carbonaceous  
 contact with well bedded/laminated siltstone  
 argillite (right way up?). Contact @  $135/20^{\circ}$
- ⑧ At this pt one can look over the  
 gully at the graphitic argillite lens rapped  
 from opp. side of valley. It dips  $30^{\circ}$   
 into cliff. In above it there are  
 tabulars of arg. massive basalt and  
 a siltstone - altered look rock. Dips  
 on the beds are locally  $\approx 40^{\circ}$
- ⑨ Excellent exposures of small scale structures  
 - graded beds indicate overall right  
 way up and on the upright limb of  
 a  $22^{\circ}NW(310^{\circ})$  plunging syncline. Thus  
 major fold axis is still to the north. July

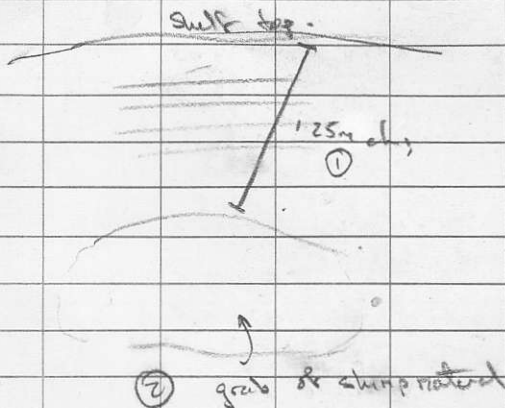
by the number of  $\pm$   $h^*$  bedding exposures  
this is prob. close to the axis  $h^*$

⑩ Returned to take sample of rock from  
just below landing. Discovered that  
the upper part of that small cliff is  
more felsic - aplitic like with  $qtz$ - $fp$   
fec (BCS)  $\downarrow$   
BCS is of more massive nature  
(either <sup>dyke</sup> and-dac or banded siltstone)

Road back to sam is entirely  
within Austin-Apex basalt. There are  
local zones of intense carbonat ( $-qtz$ )  
It is moderately strongly bleached and  
quite chloritic

July 29. Stop ①.

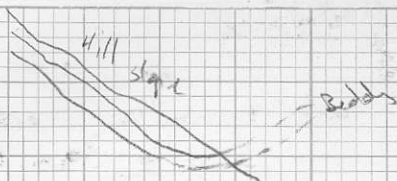
Murray Claws



Proceeding down 1<sup>st</sup> Creek strata subll<sup>n</sup>  
 hill slope. All gneiss - schist now but  
 seems a sequence of wackes, quartzite  
 (qtz - bio qtz) intruded by or interbedded  
 with mafic - felsic sills and/or flows  
 Felsic on about central sill / ~~flow~~  
 aplitic.

Mu<sup>n</sup> occurs in strat. form badly  
 up to 1m or so thick. Bi<sup>st</sup> (ch)  
 - sulphid schists. Occ minor  
 qtz vein. loc. int.

- Further down creek there seems a  
 distinct Felsic sill / minor<sup>n</sup> correlation  
 - dip reverses ~~to~~ 20' SW



Mr. seems to increase downhill. It is  
 a minor mineral in most rocks, incl. a quartzose  
 sugary rock which may be seen as  
 original Fe-bearing?



Aug

Egg station

o/c in behind sheet is coarse  
andesitic agglom. Clasts  $\rightarrow$  50cm. Clast  
supported 144/360 foliated. Two distinct  
colours to frags but same origin. Some  
have Qtz "eyes" (anaggs) a feldspar is  
not uncommon.

8<sup>th</sup> Aug. Kamod Cliff via Spz station road

- ① on top of cliff W of a small bluff which separates location from Honestah Cr

Feldspathic homogeneous Johnson Pyro is interbedded with arg-siltstone. Where bedded, obvious inter-<sup>bed</sup>deformation. The feldspathic material has no JP breccia textures here and may be equivalent to the 'feldspathic phyllite' of Preto siltstone of Corvico?

Strong carb in JP evident only where strongly sheared.

On the cliff below this (evident from bluff to E), very strong etc. Veining can be seen. ~120/140 dip 75° SW. Very clear - no alteration in wallrock. Stourens :

On the bluff itself Polvato has seen to 060/35 NW (into Part?). A sharp contact ~~with~~ a felsic dyke is seen (with JP). At ~120/42° S, Syle's pyritic

- ② Starting at Creek section from lowest safe point, Go from silty looking JP into good stony argillite 080/24° N. At least 20m thick here. Arg. contains pyrite cubes and some Fe-carb. Upwards it becomes interbedded with



## Chu Chua Core.

Sulphide very massive locally weakly banded

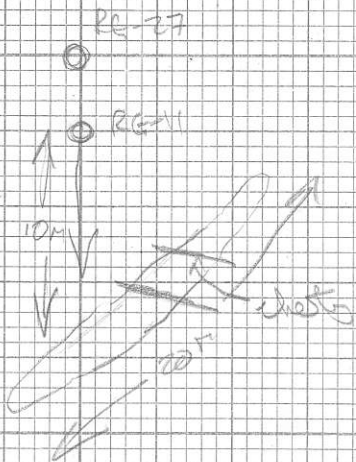
In places mixed w/ mt. Other places mt  
is very massive.

- basealt clearly pillowed locally, quite  
pale in colour

- Soapstone alteration present adjacent  
to massive magnetite. Also contains mt.

- chert locally. Massive white, pyritic

Also brecciated and can grade to  
cherty argillite. Some massive sulphide



Aug 16<sup>th</sup>

L92784, 1480N.

#743072 #2 (trial) post  
Bar #1

loc Clint Kells  
ag for Barry Speton

Nov 2 1966

Also 743073 #2 post  
Bar #2

and 743075 #1 post  
Bar #4

#2 post 1500' W  
chain 1500' to right

RG-11 collar (see sketch on 14 Page)

Intensely foliated ss, tuff and chert. Dip  
reversed. 175/75 W. Extremely variable  
but always vertical to W dipping

o/c at ~~collar~~ <sup>Joint</sup> of RR-13 road - RR-15 (RR)

Make plastic mirror etc. Same heavy guy

o/c in road cut 100+50 14000

good make lap etc. Mod leass (H)  
 quit mass. 140/45 ft.

Sampled BCS.

Mod developments of ferrocut present

RR-13 collar.

intensity altered - 'San Pios'.

collar of 13 should be in this  
BCS

road to RR-14 RA 11653 loc<sup>n</sup>

Mat lap t. - mass. A<sub>2</sub> per

100+50 14600.

Good Percolat developed above the  
collas of R6-14 Making lots of  
rusty water. Likewise at R6-15 but no  
etc. Overburden 12' +

L103 → South  
sandy, boulders w/ boulder  
ridges  
small creek at HUDS has cut 25' into  
oh

2+70's (5m above lin)  
grit 128 / 70° NE

lin drops ~~into bank~~ <sup>off</sup> at 2+85 level  
out at ~ 35. Grit is exposed in  
NE bank.

New drain lin at 2+90's  
change to parkland.

On 35m. Even bigger drop ~~off~~  
into pan Creek. Overburden in such  
area is 60' + deep.

Walked up hill on W side of creek.  
Top 15m below road has etc of ~~thrust~~.



Walking W along road from H<sub>1</sub> 3/201  
 down past light shows many vari-  
 eties among these is a tendency to  
 become greener, more decalcified? Also  
 apparent is ~~an increase~~ a progression  
 to horizontal and crystal half <sup>of</sup> varieties

When road heads up hill toward  
 the top benches these frags are  
 quite coarse. On inside of the last  
 RH bend on this road coarse angular  
 greenish AP frags can be seen in a  
 lighter coloured matrix. Fall 134/70E

First heading on way up road  
 reveals a qtz-calc veined so-called <sup>old</sup>  
 shear zone very similar to that in  
 Trench 96. bearing 125°

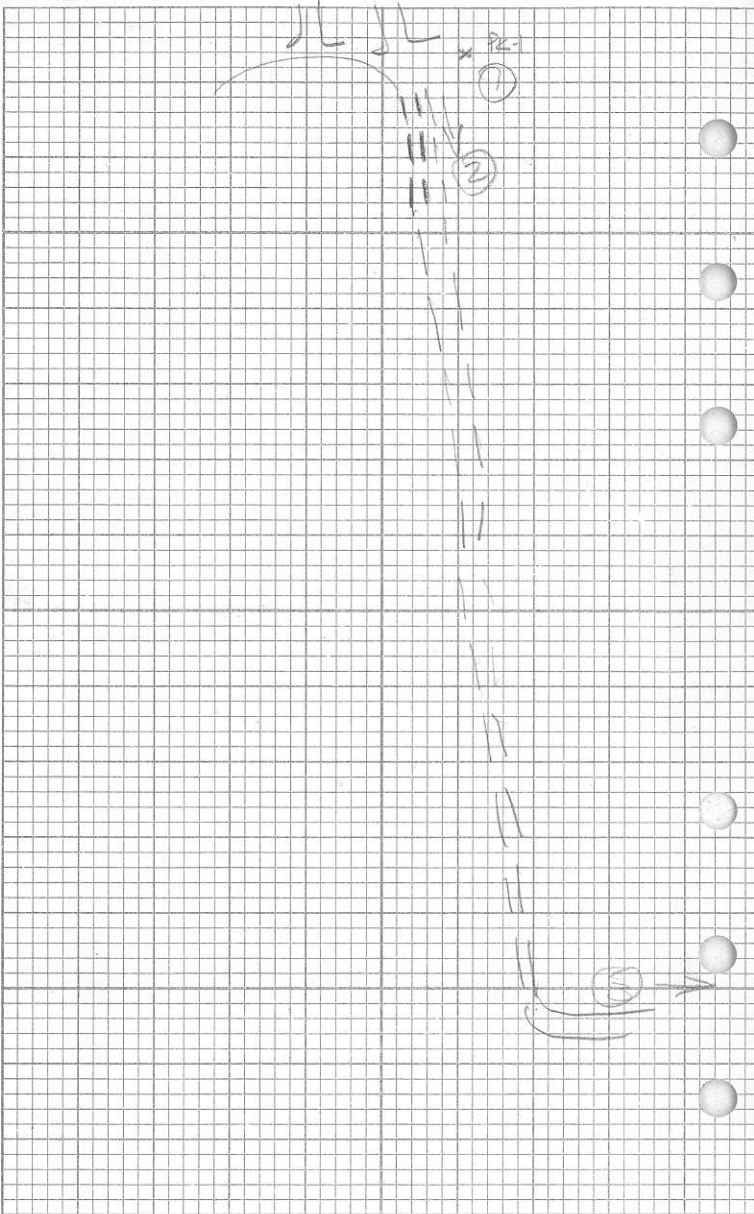
Crossing gully, 75m W of top landing,  
a sequence of seds grading from  
silt & argillites to grit can be seen  
Still in grit at E end of landing, judging  
by the sub-crop.

Aug 26<sup>th</sup> Dixon L. Good.

L27190, 4+75W.

rubble no distinct o/c. Blocks of dirty material with deep red weathering rind. Also weakly bleached + Fe-carb rich matrix  
void and some quartz wacke  
traces of Pz only

Partals



Aug 28<sup>th</sup> Kanad Road - Horseshoe

① Slightly above and to right of main portal  
E of creek.

Relatively massive (still quite fissile) sericite  
linings (after he-calc?) speckled. Occ. Qtz eyes  
Prob. Mylonitic tuff this much more sericitic  
than this section.

Sample PK-1

This side of creek must be down town  
wrt other side. Main part of alteration is  
beneath this mylonite

② above gives way to extremely foliated  
sericite rock with cherty bands, local intense  
linings and beds of the rounded chert pebble  
br with intense sericite. This continues  
at least to the first corner down. This  
is almost certainly Pn Bx equivalent

③ 1<sup>st</sup> bench till next corner.

Mylonitic tuffs & lapilli tuffs, local chert  
zones. Qtz eyes local pseudomorphs  
of GP might indicate QFP.

Occ. gradation to chert at chert  
pebble zone. Even trends towards the  
same greenish colour seen up the hill

PK2 taken +300m from corner.

PK3 at next corner

7008

- litho

1/2

whole rock

④ Second beach going west.

Still in intensely altered RT or just

intensity of alteration increases back  
in towards gully. Pk<sub>2</sub> taken at  
next corner - virtually massive sericit  
with gritty grt. Miss P<sub>2</sub>.

strong chloritic zone in same material  
(ch + ser) about midway between  
corners.

3<sup>rd</sup> back - short one Same.

4<sup>th</sup> - last one - Same  
still intense sericit at bottom

Karad Sullid

7<sup>s</sup>, 300F

OK #3

245<sup>s</sup>

(30m E)

(Jin's traverse)



Sept 27<sup>th</sup>

check lithos on grid

RA 25 98+98, H22m. OK

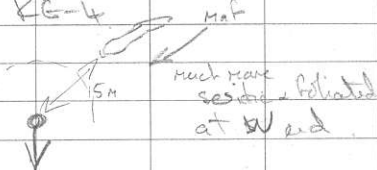
Small o/c of lower calc. lap. t.

- chert nod

-  $\swarrow \nearrow$  133 | 13 E

o/c also extends 10m NW from H20, 99, along a road cut, lenticles very well exposed showing potential bedding  $\parallel$  to bed.

More o/c on this beach just below the pad for RG-4



RA 28 - Boulders

RA-29 - o/c of size cong/wacke

but actually at 98+75 (25m from 99) and H20s.

RA 30 98+90 (H60s) H75!

small o/c of coarse wacke.

RA 31 98 0438W

Poss o/c JP?

RA 32 1100, 0460s

Boulder (chert)

LAZ

10040

HOS

AK

course

work