

# TROY

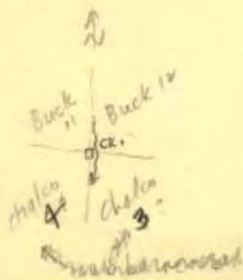
92INW  
29/9/70  
Sunny  
W.J.M. 010

# CHALCO 92I/116



Major fault density  $\frac{7}{6}$  in 850'  
 $\therefore$  1 in 125'

x almost all the test adits are at the H.W's of the faults



009479

HIGHLAND VALLEY: STATION CARD

Traverse No.  General Location

Station No.  292

TROY SILVER

Exact Location: Lat.  Long.

Samples

Rock Type: Main

Use block 16

Secondary

for breccias

Minor

Foliation: Development..Strike..Dip..Dirn.

Mineralogy: Quartz  Texture

Plagioclase

K feldspar

Mafic  Texture

Matrix

Mafic minerals

Bi - Hb ratio

Alteration Minerals  Intensity

Vein Minerals  Intensity  Width

Dykes: Strike..Dip..Dirn., Density, Width

Photographs: Colour  BW

Joints: Strike..Dip..Dirn..Density..Character

Striae: Strike..Dip..Dirn..Movement Sense

Faults: Strike..Dip..Dirn..Movement Sense

General Comments and Sketches

Following  
cat trail  
down  
Trends  
070  
then 085  
" 115  
" 170  
" 060



TROY SILVER  
STN ①

EAST SIDE

- Joints subparallel to ck ✓ 001/73/1 - 3/2  
 " flat - parallel to thrust ✓ 150/14/1 - 4/2  
 (poor rdg - dip variable to 3°)  
 " parallel to main faulting ✓ 087/75/2 - 2/2

(these tend to occur as closely spaced joints (< 1") in zones fm 1 to 4' apart)

The east side of the ck at

A area 1 is characterized by close-spaced joints - offset on the thrust is uncertain.

WEST SIDE

Thrust fault - zone 5' wide w/ trs to cobble-sized fragments  
 ✓ ~ 140/15/2

some are  
 Joints - kin-filled w/ epidote and chlorite  
 & have bleached halos - 093/83/2 | 2/4 ✓

Foln 175/86/1 poorly devel.  
 in fg hybrid C.R.

# TROY SILVER

50' downstream from area 1 Epidote vein with qtz + magnetite in the core  
upto 12" wide. Pinches to zero + swells along strike.

(Sample 1 - 292A)

Slickensides 207/43 Face 066/40/2

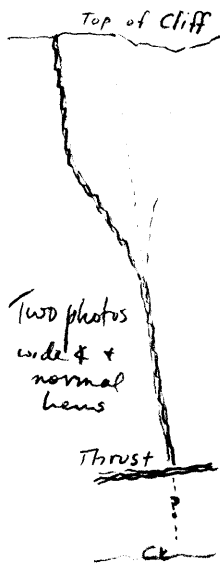
- preserved on mag. chl. coated face.

Qtz-Ep veins 023/83/1 1/6" wide

## Area 2

Joints 003/72/2 - 2/2 ✓

087/82/2 - 3/4' chlorite - mag.



Some qtz-felds. veins (pink fs)  
✓ 170/52/1 width 1/4" density 2'  
locally, elsewhere 4' +.

Digging on fault 090/76/2 gouge  
12" shattered zone 4' wide

Lines up with a fault across the  
ck - this one may post-date or have  
been rejuvenated after the thrust

The dump has fragments <sup>consisting</sup> of masses  
of actin. xls, some qtz-ep veins  
+ rarely, malachite

# TROY SILVER - AREA 3

West Wall

Shear 111/81/2 ✓

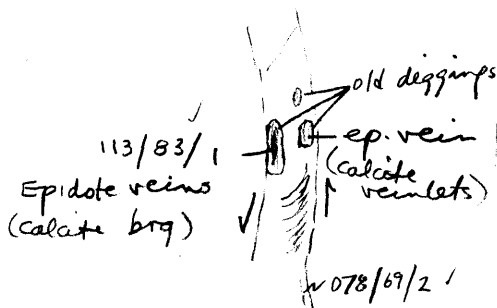
✓ 103/74/2

caved - probably old diggings

ck

Joints 018/16/1 - 4/2 ✓

East Wall



No Cu mineral  
seen

(1-292B two samples)

Joints 164/86/1 - 4/2 ✓

## Area 4

West Wall

Shear 105/83/2 ✓ 12" of gouge

Reverse fault?

Gouge healed by 9/2 veins

some Cu sulphate (?)

Chlor. seen at edges of gouge

Joints 077/77/2 - 3/4 chlorite ✓

East Wall

Best joint set 067/74/2 ✓

subhoriz. joints poorly devel.

# TROY SILVER

Long Adit Area 5

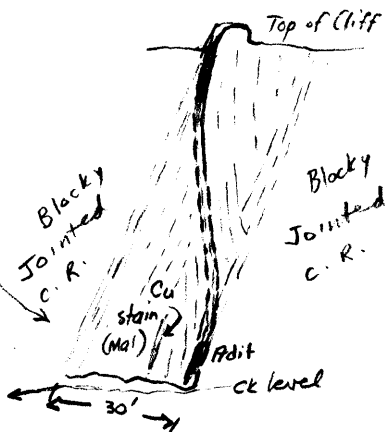
(Three photos)

Joints 029/78/2 - 3/2

√ 045/10/1 - 4/2 (poor - variable dip)

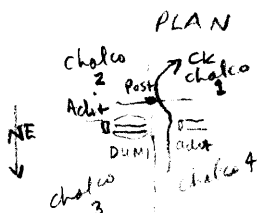
+ pyrite  
Cpy occurs as pods + specs in qtz-

ep. veins filling an easterly trending fault zone. The broken zone assoc. w. the fault is ~ 30' wide - the core only contains gauge, chl. altn + veining - max. width 4 feet.



1-292C analyzed (Cpy, py) qtz-ep. veined hybrid g.d.

Clf wall - Viewed westward



# TROY SILVER

## area 6

1095/83/2 shear zone w 10 to 15"  
of gouge interlaced with qtz - ep. veins  
Shear have pods of cpy in them

Joints 024/84/2 - 3/2 ✓  
094/81/2 - 3/4 / chlorite

(Photo of Three)

————— Further along —————

Fault - Gully expression  
has trace 090°

## area 7

————— crossed creek & heading —  
back up the hill  
(area 7)

Joints 130/07/1 - 2/2 ✓  
165/90/0 - 4/2 ✓  
not as well devel. as 116/73/2 - 4/2 ✓  
joints in the Valley

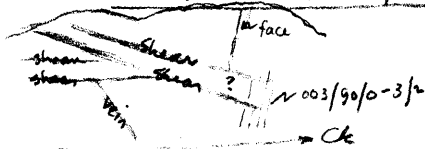
a little higher

Joints 093/74/2 - 3/4 chlorite

slickensides 98° SW (Plunge 96°

toward 258°  
stereonet)

views of east wall of CK



# TROY SILVER

## Area B

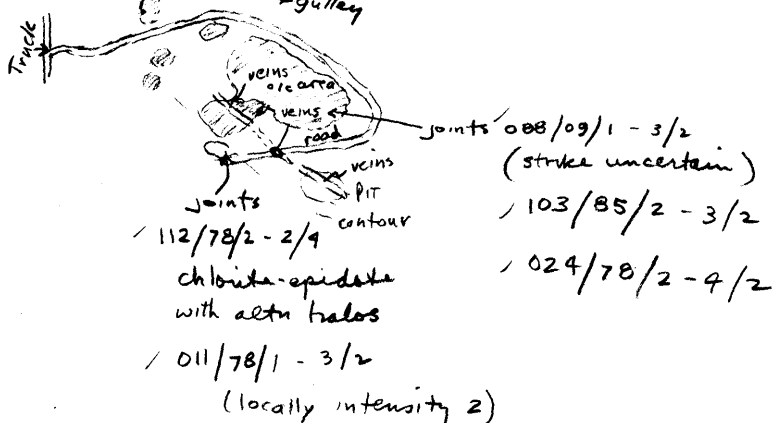
Old Digging near end of cat road

Shear 108/86/2 has <sup>epidote magnetite</sup> 9/2k-mal-

RIDGE WITH →  
-12

veins and mal. stain.  
→ gully

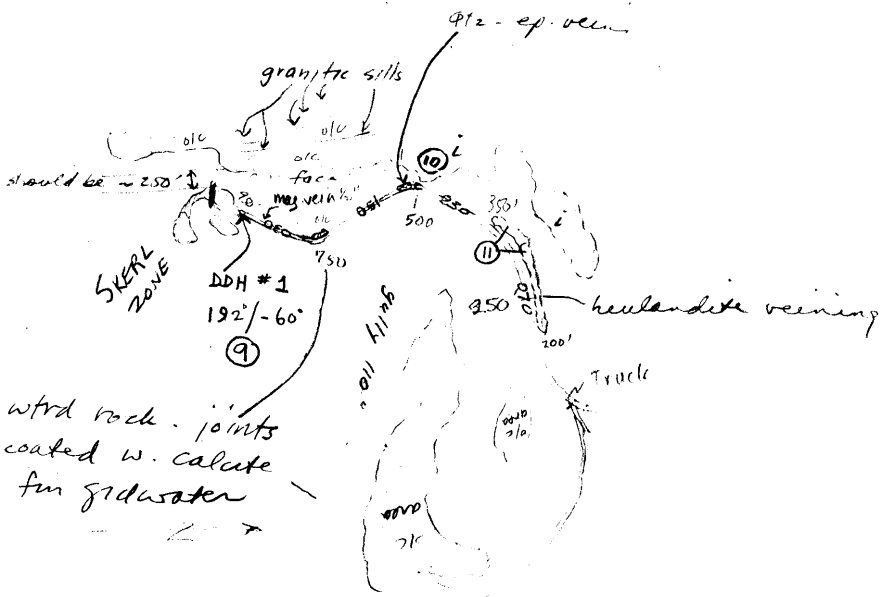
Track





# TROY SILVER

OCT 1/70  
Sunny,  
warm  
W. J. M.



# TROY SILVER

1/10/70  
Sunny  
WTM

Area 9

DDH # 1

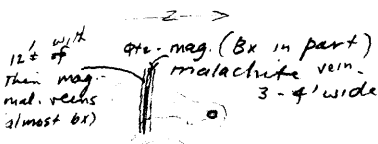
Joints  $\downarrow$  094/84/2 - 3/4

Filled by Calcite veins  
with chloritized rem.

Three photos  
looking west  $\downarrow$

Some have no veins.  
Some have Qtz - epidote veins  
 $\downarrow$  001/90/0 - 3/2 { Qtz cores  
some places  
ep. cores  
others

$\downarrow$  101/18/1 - 3/2



- no compass bry possible  
guess estimated near 100°/85/2

Down the Hill Qtz-mag veins

cut across the ridge at a high angle.

Three Samples 1-280

11

area 10

Joints  $\downarrow$  120/67/1 - 2 to 3/4 { Qtz-ep. on  
some - other  
not infilled

Dip ranges thru 90 to 85 southeast

$\downarrow$  021/69/2 - 2/2 slope to  
density 3

$\downarrow$  012/75/1 - 2/2 " "

$\downarrow$  015/86  $\rightarrow$  90/2 to 0  
 $\pm$  calcite

- quartz-epidote veins

- The veins are "poddy" - ranging  
fm 1/8 to 3/4" across over very  
short distances.

TRAY SILVER

photo of woodpecker

area 11

Qtz-ep vein ↓ 100/39/1 slickensides in the  
vein mat'l 092/36  
057/34 (best) ↓

shear zone ↓ 105/77/2 12" of cobble  
sized frogs  
cut off by vein 100/39/1  
photographed

Joints ↓ 049/73/1 3/4 Qtz in some  
chlor. " "  
↑  
(to 2)

Heulandite in small horsetail gashes  
& veins ↓ 098/72/2 1/4 - 1/2" wide  
↓ 053/72/1 1/8"

slickensides ↓ 205/11  
↓ 223/32

all from one  
area 5' across

Ep vein 060/33/2 → slickensides  
082/23' in epidote  
135/44' " "  
093/36 ↓ " chlorite  
081/44' " " - epidote

sample 1-280A

## TROY SILVER

21.15 TRUCK

21.35 area 12 200' ahead of a <sup>1/2</sup> stake with no  
number on it

area 12

Zone of close jointing (inchi-scale)

forms a zone 40' wide with assoc.

ep-quartz-<sup>magnetite</sup> + zeolite (heulandite)

veining. The dip on the zone is  
uncertain but may be steeply toward  
the north

mag. ep. veins ↓ 096/79/1 width  
< 1" to 12"

Joints ↓ 130/74/2 4/2

↓ 120/58/1 3/4 chlorite

1 164/08/2 3/4 Heulandite

↓ strike 055/13 in chlorite

sample 1-280B

21.45 605 10E pole on road - 605 was  
probably at 21.38

21.5 upper/lower roads for

21.65 97c (area 13)

Mileage 21.65

TROY SILVER

area 13

Joints ↓ 155/65/1 - 3/2

↓ 097/82/2 - 3/2

↓ Horizontal - 4/2

local qtz-ep. pockets - no rdgs  
possible

22.05 Small qtz just before the core  
boxes (150' "north" of 30s)

TROY SILVER

DDH #3 Collected in etc - 45° into the Hill

C.R. is dark gray bi-rich hybrid  
qtz 15%, bi 25% partly chl, 60% plag-ser. actin

0 to 100+ Fractures often are rusty. The rock

however is fresh. Some fractures are

parallel to the core

43 + 44 1" qtz-ep veins @ 60° to core

130 Ep qtz filling joints are @ 60° to core

131 chlorite-coated joints || to core

137 A few inches of pea gravel

170 Slips in chlor. coated joints || to core

177-178 Shear zone? - not intensely bxt'd  
are common

179 Ep. cores mantled by pink Kspas veins

with Kspas altu halos. Pyrite veins ext-

end fm the alt. zone into the CR +

cpy is dissem. in the altered zone

vein + altu 1" wide 30 → 50° to core.

160-200 Black sooty-looking chl altu || + at low  
to mod. & to core common

209-214 Gravel-sized, scuzzed fault gouge  
- some slickensides.

218, 223, 224 Inch-scale pro gravel zones

230-250 Occasional thin slickensided

slips @ 30° to core

248-249 Banded ep-chl. veins at 80° to core

crossed by subparal. cpy + cpy-pyrite veins.

Cpy also as blisbs in this zone Est. 4% fault

- 260 chl. coated  
on slip-face has cpy + crystals of pyrite.  
width  $\frac{1}{16}$ " slip  $40^\circ$  to core.
- 264  
~~264~~  $\frac{1}{8}$ " cpy - qtz - chl (after bi) vein with  $\frac{3}{8}$ " epidotized  
halos. @  $450$  to core
- 266-292 "Smells" every foot or so - a cpy <sup>-mag-</sup> Achl.  
(overall  
.1-.2% Cu  
estm.) cpy - py - ep, py - ep etc.  
some second. bi intergrown with prismatic (fibrous) epidote @ 285  
massive cpy - mag, qtz - cpy - py (ep. halos) } mostly  
40-50°  
to core  
qtz - kspars - cpy (pods) @  $50^\circ$  to core
- 286-290 Rel. more copper brg veins than elsewhere
- 291-292 Shear zone (peg grain)
- 308-309 " " " " " "
- Paraly hem occurs on slip-faces @ 324'
- 312 - 4" qtz - ep - cpy - bi - magnetite zone @  
 $70^\circ$  to core
- 318 -  $50 + 70^\circ$  to core cpy - chl - ep.  $\frac{1}{16}$ " veins  
with pink alt. halos
- 325  $\frac{1}{8}$ "  $40^\circ$  to core
- 327 5" zone  $70^\circ$  to core - laminated  
qtz, - pyrite - mag. - offshoot pods  
of cpy are near the lamin zone.
- 328, 339 Qtz - ep - cpy bleb
- 345 Qtz - cpy - chl.  $70^\circ$  to core
- 347 Qtz - ep - mag - cpy at  $40^\circ$  to core, cpy  
at  $70^\circ$  to core

- 358-364 Qtz - Ksp<sup>x veins</sup> + Ksp<sup>x veins</sup> altn  
every foot or so. Max. width 5"  
typically 1-2" 50-60° to core.  
Some of the pink altn is prob.  
plag. Some qtz - Ksp<sup>x veins</sup> veins carry  
cpy.
- 357 chl - mag - cpy, 1"  
358 Ep - cpy - py - Qtz, 1"
- 364-367 Ep - Qtz ± cpy veins common
- 367-373 Qtz - mag - chl - cpy every foot or so
- 382, 387 Qtz - ep - cpy 40° to core
- 392 8" mag zone 70° to core
- 400 cpy<sup>veins in</sup> & mag - chl<sup>veins in</sup> - altn. cpy 30° to core
- 405 Calcite core in ep. vein. 60° to core
- 407 Pink (plag) altn zone w/ ep - cpy veins
- Epidote veinlets decrease in  
abundance fm 419 → end of hole
- 435 Vein with cpy - pyrrhotite (?)
- 440 1/16" magnetite<sup>chl.</sup> vein cut by ep - pyrr -  
cpy veins. Parallel to core
- 446 mag - ep - cpy 40° to core



NOTE the angle of int. of the veins with core ( $60^\circ \pm$ ) is appropriate if they (the veins strike  $105^\circ$  + dip steep NE is as seen in the 9c DDH 3 (Cont'd)

953'  $70^\circ$  to core Kspar - ep. - cpy - py

455'  $60^\circ$  " " " " " "

462 - 480 a couple of thin mag. stringers

485 3" ep - chl - py - cpy  $50^\circ$  to core

488, 496, Pink altn around chl - ep veins cpy every 2-3' occurs as fq dissemin in the altn zone to EOH Most  $50-60^\circ$  to core. The pink at 531 is graphic granite

480 - EOH Epidote veins  $< 1"$  every 3'

533 EOH

Recovery  $90^\circ$  +

||  
-60°<sup>NE</sup> to core, B/L DDH 2

0 to 468 in Vancouver same setup

468 - Inch wide ep. veins every 5' on average w space as DDH 3

487 open space falling epidote assoc. with magnetite

501 EOH

no magnetite seen in the hole

TROY SILVER

DDH 4  
vertical

o/B 194'

194-353 Ep. veining sparse

Heulandite veinlets - sub-  
vertical fairly common.

Rock rel. unif but sl.  
coarser & lighter colored  
here & there.

1' aplite vein at 292'

Homogeneous Heulandite after 370'

almost no epidote thereafter

212 Ep. vein @ 30' to core.

417 Shear zone 1' pea gravel

504 EOH

Recovery 90%+

NO Cu MINLN SEEN

11

DDH5

Lost in o/B

DDH 6

-45° @ 330°

075 62'

62 - 105 Heulandite fairly common ~~as~~ veins  
@ ~30° to the core.

77 Malachite

62 - 103 Epidote veins (inch scale) every  
few feet at 50°+ to core

138 1' zone probably a fault - not intense

139 Ep vein 30° to core - contacts vague be-

143 6" pea gravel - fault cause of epidotization

143.1 Ep. veins w pink halos @ 70° to  
to 144 core

144 to EOH Epidote veins thin, sparse  
but present

150 area zeolite present again sporadic-  
ally  
to 470 u. 30° to core rarely parallel to  
area or in two sets as drawn



186 } Qtz - ep - cpy @ 40° to core 1/8" wide  
199 }  
216 }  
253 }

214 - 215 pink altm around chl. at 40° to core

226 8" of epidote

DDH 6  
cont'd

Occasional pink altn assoc. with  
Kspar veinlets w. chl. rims have  
dissem cpy blebs in them

i one at 293' has Kspar @ 20°  
to core

285 Cpy<sup>rod</sup> in Qtz-ep. vein. Qtz 30° to  
core

429 1/4" cpy vein at 40° to core

549 552 555 Ep. Vein<sup>6</sup> 70° to core

570 EOH

Recovery 90%+

# TROY

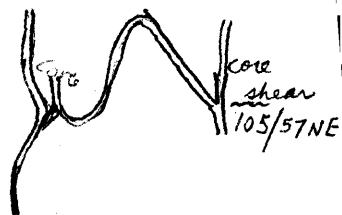
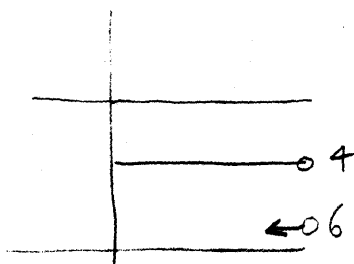
Drill Hole 2 along B/L NE  $-60^\circ$

" " 3 into the Hill  $-45^\circ$   
(~~330~~)  
330

4 vertical

5 lost

6 200' over  $-45^\circ$   
into the Hill

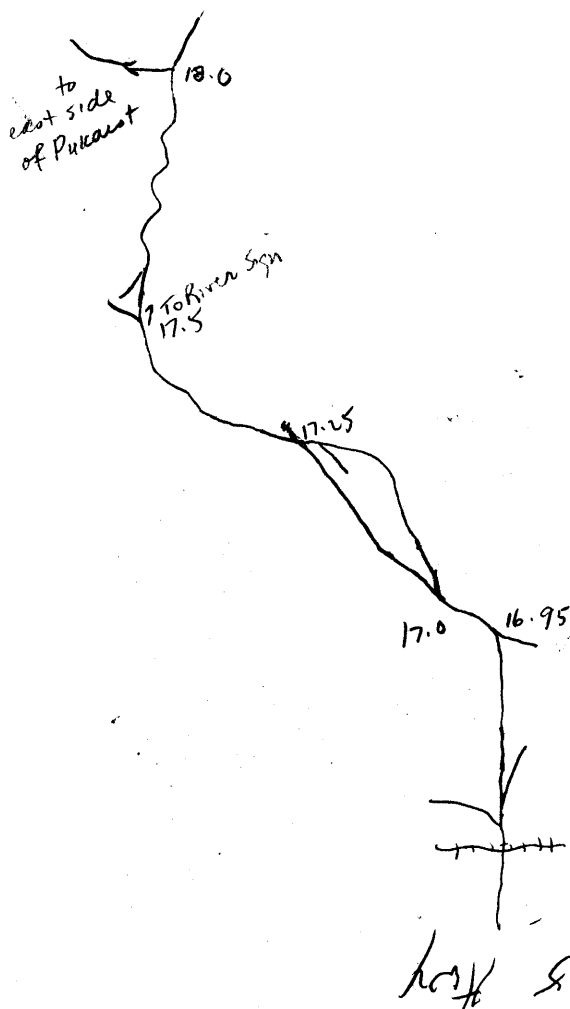
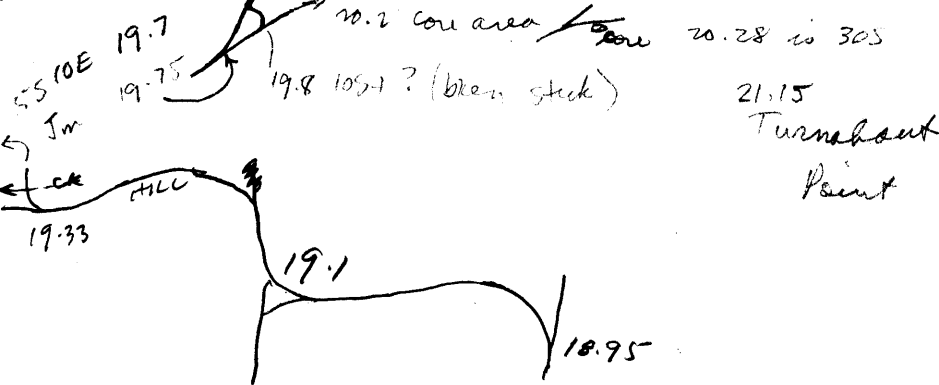


Gen li

watch for ep + Kspar

veins

Dummond suggests a typical thing is Kspar reacting with ep + reducing Fe to ferrous state. Thus if Cu is about it should be present as a phase. True or false?



21.15  
 16.50  
 -----  
 4.65  
 miles

HIGHLAND VALLEY: STATION CARD

Traverse No.  General Location

Station No.

Exact Location: Lat.  Long.

Samples

Rock Type: Main  Use block 16

Secondary  for breccias

Minor

Foliation: Development..Strike..Dip..Dirn.

Mineralogy: Quartz  Texture

Plagioclase

K feldspar

Mafic  Texture

Matrix

Mafic minerals

Bi - Hb ratio

21.15 Turnabout

Alteration Minerals  Intensity

Vein Minerals  Intensity  Width

21.35 %

Dykes: Strike..Dip..Dirn., Density, Width

Photographs: Colour  BW

Joints: Strike..Dip..Dirn..Density..Character

Striae: Strike..Dip..Dirn..Movement Sense

Faults: Strike..Dip..Dirn..Movement Sense

General Comments and Sketches