WJM 1971 Field Notes Aug 15

896418

geotec

#2

WJM
1971

FIELD
NOTES

H.V. 7 SERIES

SHEBA
ALVIN
JERICHO
EMPIRE

335-8360

FIELD
BOOK

6 5 4 3 2 1

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END OF SEASON

Traverse 33 Aug 18/71

Barnes Lk Area WJM DMVC

Truck @ roads end – 1500' sta 7-118 @ ± 290°

New Brg 045

400' Hybrid ?c – small in boulder → sand moraine

800' Claim post Hub 11, 12 } Final post

13, 14 } in. post fp brg 330°

No o/c to 3100'

3100' New brg 160 1400' Meadow No ?c

.3 miles fm truck

7-119 New area 1 north of last traverse – motor bike

.5 miles – o/c of 1

.6 " – " " 1 Aplite veins and 7-119A a biotite pyrox. lamprophyre dyke. 008/90/0 ; 2' wide

New Brg 090 200' o/c ends (1)

400' o/c begins (1) → 1000'

sta 7-120 @ 900'

Int. o/c to 1200

1300 base of upslope — Jur. pebble cgl
boulder ?

1500 Kv sub o/c

1900 New Brg 000 for 300'

Then 040 for 200' agglomeratic
basaltic andesite. ~~agg~~ / 7-120A

pebble → cobble-sized frags, often
w. rounded corners 50%; matrix
sand-size. Frags wtr in relief

---

o/c just below 7-122 of grag
/ vesicular and.
just above thick trees
brg ≈ 320° in small open patch

— o/c black massive basaltic and.
Brg 180 to salt lk
another open patch in the trees

7-122A Hybrid Qtz-ep vein 155/85/2
/ 1" wide

very qtz-rich, interstit aplitic
zones — looks like SPATSUM

In Barnes Ck 8-122

a gridley vs of hybrid - like

That to the north

ie aspects of 1 and

metam. 10

cut by 20' Brown - black

dacitic and. dyke

≃ 020/90/0

Sunny - Cloudy, windy

WJM
DMVC

Traverse 34

North of Gumpolk

1300' Ridge o/c - trends 025

7-124 Dyke? 300' long - Guichon?

traverse line X's its N end

1500' Rel fg Guichon 7-124A

aplite 155/66/1 - stringers 1/4" wide in a joint set

Density 3 8" apart

some parts of the o/c are like 7-124

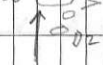
1600' Dyke? fg Bethlehem type 7-124B

2000 Edge of swamp

fgBI-rich Hybrid ~~out~~ by with cracks infilled by guichon 7-124C

color photo taken

2350 o/c of D2 Hb mg + flecks of fg mafic throughout the rock



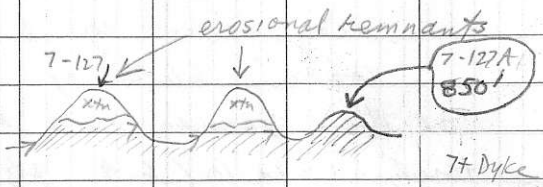
2900 Bluff with ~~hyb~~ xtn containing
bi-rich mafic xenos
Qtz ep, calcite (coarse xls) veins

D7 leucocratic dykes
and peg. fs-musc pods
Xenos 25% of the rock
7-125A

The next o/c @ 2975 has mafic-rich
meta 10 w cg hb clots which
contain blebs of cpy
at this point o/c's may be en-
tirely meta 10 (both qtz-rich +
metavolc types) overall xenos 50%

3400 knob mixture of 3, xtn + xenos,
Xenos down to 10%
ridge crest

4000' 7-126
Gump lake dyke strike 115 / north at
Going downhill now ≈ 25°
4200' 7-126A a fairly dark-looking 3
and bi-rich hybrid
ie 1 and 3 mixed
also some aplite
4500 ℄ of ck


erosional remnants
7-127
7-127A
850'
xTm
xTm
77 Dyke

4700 o/c of 3 to left of line

$\boxed{7-126B}$

Foln 140/29/1

5000 Ck

5100 Traverse line

cg bi-plate guichon - actually it is xtn and guichon because of the bi plates

$\boxed{7-126C}$ Local aplite (D7)

5300 Ck valley

5350 Large Mound-like o/c of 7

at the edge it is very pink & sl. finer grained (contact phase) ← either dyke or float →

O/C → xtn pocks - rel leuco & rel melano mixed Foln 100/20/1 mediocre

066/55/2 Good

7-127

5450 Height of land - Pacer reset New Brg 070

7-127 through valley - in the valley

O/C is 7 + D7

500' The next knob is xtn veined & seamed by 7 and D7

7 locally dominates

7 +D7 xtn +7 +D7 xtn some 7 + D7

850' 7-127A Gump Lake + D7 (aplite) + fg 4-type dyke
(minor xtn)

New Brg 300 - 200' - Foln 160/75/2
(pacer reset)

1200' Cliff o/c Trends 010°
Gump Lk (7) + pink peg (D7) +
rare bl. fg Nicola Xenos

1500' Ht of land
7 + D7 Foln swirly but well
+ Dyke + developed
Qtz - chl veins

New Brg 290°

500' 2 small o/c's? of 7 + Dyke

875' Ck Bed (dry)
1050 7 + Dyke

1500 7-129
+ qtz - hb clots
new Brg 190 300' decided to
follow cut line @ 210° (50N EBL)
600' along line
7-129A
o/c - lots of dyke to start then
some xtn or hybrid then 3
- some metased inclusions +
D7 peg + aplite

New bearing 270° for 7-129A
claim posts

others for Killarney
- NYE 16 in post (FP NE) Jan '71
- NYE 17 FP
- BONNIE 4 FP (Dec 1959)
- BONNIE 5 I.P (FP NE)

1900' Large hybrid boulder

2000' New Brg 240

3150 New Brg 190

3400 Back to 240

3950 Power Line Road

71-1

Intermittant throughout:

calcite veining

epidote " ± qtz ± hematite

zeolite "

Kspar "

qtz "

cpy was seen only once - in a quartz vein

320 Intermittent zeolite vein subpar to core
→ 370

K altn + thin veins snuck in @ about 300'

400 - 420 Gougy

539 Thin stringers of D1 (qtz + plag phenos in aphanitic matrix)
also aplite @ 550'

610 → 630 Chl veins common

650 Sand-size gouge 1' wide

753 - EOA

Shelba 71-2 7B 16'

71-2 First impression - kspar veins + altn, qtz-ep veining, calcite veins, zeolite (locally as bladed xls on the crack face)

Chlorite altn common, level 2

248 → ≃ 285' D1 dyke ~~with~~ is chilled (but sl. porphyritic with) aphanitic gndmass in contact ~~against~~ with Skeena @ 30° to core.

Fs has cream-colored altn ~~along~~ adjac. to the dyke

Hematite ± ep. veins are common on either side of the dyke

71-2

290 → 360 Dk green fs altn common
also ep + hem veins

360-425 Pink kspar altn occurs locally

Hem - qtz veins very common
In the altered zones, the % of
quartz increases

425-500 Some aplite (430' ~ 2' wide - 20% core)
around the rock has a fresh-
look about it)

zeolite, qtz-ep, chlorite
veins NO HEMATITE

500-570 similar to preceding but with
local zones up to 5' wide of
Dk green altn

Bn occurs in altered mafic
clots - some are appar. assoc
with ep veining

some aplite

-also in chl veins

Local zeolite + one fracture
filled with specularite were
seen

Sheba
71-2

570-640 zeolite common
bn in clots w chl + some epidote
some pink altn around qtz-ep
chlorite veins
Pink altn + dk grn altn are fairly prominent

640-666 all has dk green alteration of fs + more quartz has been introduced.

666 to 706 Core gone to Vancur.

SHEBA 71-3

71-3 9B 10'

10-80 Skeena rel. fresh
some zeolite, some chl veining

80-140 more altered - generally the dk green type
some aplite

MoS_2 gouge @ 94.6 - inches wide
local chalky argillic altn
another bit 97

Sheba 71-3

-220 Locally intense ksp → 20%
Some green altn
ser + calcite veins
Local 1'-scale argillic altn zones

-302 Fairly general dk grn altn
MoS_2 in small amt @ 233
Several 2-3' pebbly zones fm 250 to 300
Calcite veining
B_1 → sericite + carbonate - pore

-372 fresh-looking (secondary)
similar - apparently there is some ep replacing plag as well as chlorite
Pebbly zones 345-370 1-2' wide

-440 - - - 394-399 Intense chalky-white argillic altn cut by qtz, calcite + hematite (red, ochreous) veins. High % to core.
- - - otherwise similar to preceding
- - - 436 → pale pink + pale green alteration - (level 2)

Sheba 71-3

Bi
-512 ∧ Plagioclase ppy
453 - 458

460 Qtz Plag ppy
contains ↖ cpy as a thin coat on a joint

overall mod→intense green and chalky argillic altn.

- 580 cpy occurs as clots in the center of very dk green chlorite veins
Qtz - MoS2 - calcite (x's) veins (513.6)
Some open space filling quartz veins
Qtz - Kspar veins
527 MoS2 as clots usually in qtz blebs in zone of intense arg. altn
Qtz - cpy - MoS2 vein - one seen @ 515'
Hematite veins (ochreous)

Mineln fairly good overall wrt MoS2 anyway Est. combined 0.1% Cu=

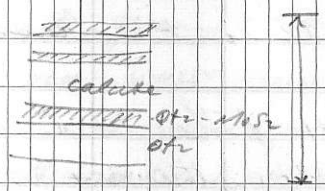
- 649 Mafics → ser. + chl.
mainly dk green altn, some argillic
quartz - MoS2 ± cpy veins 635 - 647

SReba 71-3

-721 Similar altn with qtz-eye aplite from 655 → 720
Pink kspar altn is fairly intense
ocherous hem. veins
a bit of MoS_2 altn occurs

-788 Creamy-colored alteration
Fairly abund hem. veining
Qtz-MoS_2 veining

-855 Cream altn fails off at ~800
replaced by altn with enrichment of interstit kspar and
Hematite veins common
Qtz-MoS_2 + calcite veins



calcite veins old on joints

-908 EOH Epidote-qtz-wall MoS_2 flakes ± hem.
Qtz-MoS_2
Kspar altn moderate - overall
Hematite veins
zeolite veins

Sheba 71-4

0 - 13' casing

13 - 88 Skeena - rel. fresh
argillic altn along fractures
Bt - Qtz - Plag ppy dykes with aplitic pink
groundmasses 66 → 72

- 159 green ser. along slips
cpy as blebs in qtz pods
at 91'
110 → 117 aplite + Dl (qtz plag ppy
with aphanitic matrix) + CR
overall rel fresh.

- 230 almost fresh skeena

- 305 Half the rock has dk green
altn, the rest is rel. fresh
bn in qtz veins (also a black
mineral)
bn as blebs on the surface of a
rel. sericitized fracture

291 - 300 aplite - at 299 the aplite has pods of bn
303 - 312 "
320 - 321 "

- 377 qtz - bn - cpy veins ; MoS_2 - chl (?) stringers
~~otherwise~~ sim to preceeding but
less minlzn

- 449 Mainly dk green but local chalky
white argillic altn
some hem veining
cpy - black mineral

- 520 Qtz - MoS_2 - cpy + barren qtz veins
Local pink meandering stringers
- aplitic
alteration green + argillic as before

- 592 Mainly slight greenish altn -
NOT MUCH MINLZN - some MoS_2

- 668 Similar but with zeolite veins to 650
then some pink altn and begin-
ning at 654 (rel. chilled contact,
then qtz plag ppy (D1) which is
a ringer for the Valley Cu ppy

cpy as a smear on a sericitized
fracture

DYKE TO EOH

- 740 - Bn occurs as coatings on
→ 754 sl. sericitized fractures
- calcite + zeolite veins

Sheba 71-5

0/B ~~[illegible]~~ 29' Skeena - rel fresh

137 Qtz - bn veins
some green altn
some zeolite veins

140 - 214 Hem. veining
chloritic altn along fractures
cpy fracture minlzn
(like Lornex gets)

- 285 Similar - some ~~chlorite~~
argillic altn

- 350 Some pink now
Lots of hematite

- 425 Quite fresh - looking - some
K introduced?

- 497 calcite + zeolite veins; + Qtz-ep ± MoS2 veins
Thin ~~aplite~~ Dl stringers (aphanitic matrix)
some sericite altn zones along fracts.

- 567 aplitic stringers common 20° to core
Fresh to green altn
Sandy gouge 501-502
Some hematite veins

- 650 Similar but almost no aplite

- 702 Veins - hem.
Qtz-ep
sericite
zeolite
rel fresh, some grn altn.

71-5 Has very little Cu or Mo mnlzn

Sheba 71-6

0-18	21'
21-92	Skeena - rel fresh Veins Qtz - MoS_2 (not common) " - ep zeolite
-161	similar
-232	similar but zeolite fairly prominent
-303	similar to 92-161
-376	" " " " " 8" @ (30° to core) aplite at 360
-448	415' MoS_2 + epidote veins zeolite veins locally important aplite at 446

EOH

Sheba 71-7

0/B 20

16.6-65 Skeena, some thin aplite stringers

-137 Veins zeolite, sericite calcite, chlorite
rel. fresh skeena
some aplite

-208 Similar

-281 "

-353 "

-430 "

-502 Qtz - MoS_2 breccia w MoS_2 cement (479)

Qtz - MoS_2 - Kspar 435
fairly pervasive but "gentle" green alt'n

-572 similar but little ~~molyb~~ molybdenite
perhaps some extra K added

-642 similar - MoS_2 in open bx's
sericite coats slip faces

Sheba 71-7

— 713 — similar but less altered
same local chalky argillic altn
zones

— 775 (EOH) Fairly pervasive pink
altn at EOH (level 2)

SHEBA 71-8

7B 7'

7-55 Skeena - rel fresh
Qtz - MoS_2 bx
Minlzd fracts coated by
chl - ~~#~~ cpy
cpy in blebs assoc w. mafics

-150 Pyrite coating on sericitized
fracture
Local pink altn overall
fresh
zeolite veins

Sheba 71-8

-223 150 - 160 peg + aplite

contains cpy ± bn

blebs

overall fresh Skaana

-271 very slight pink + green altn

-366 Qtz-cpy-bn-MoS_2 (?) veins

argillic altn level 2 → 3

fairly common

Qtz - K-spar veins

-443 - a few flecks of specks

- cpy + pyrite coat slightly serrated faces

Gouge 417 - 443

Hematite veins, flecks of specks

overall rel. fresh

-515 Then Qtz-cp stringers

cpy coating a fracture

Rel. fresh, sl. grn altn

Sheba 71-8

-585 Lots of ochreous hem. slips
530 onward fairly pervasive pink altn (level 1)

-657 Fairly fresh but local chalky argillic altn (level 2)
Hem. coats slips
One slip face was coated with MoS_2

-728 local pink + argillic altn
pervasive coated slips

-758 Some pyrite
local chalky altn, local pink
Qtz - MoS_2 veins
MoS_2 - cpy - qtz stringer (subparallel to core)

EOH

Aug 22/71
Sunny, cloudy
WJM, DMVC

18

Traverse 35a

SHEBA 71-9

0/B13'; Rusty wtd zone Fe + Cu oxides
Cu carbonates to 47'

46-119 Skeena
Rel fresh, local green altn near
end
sericite along slips
one vein seen - qtz-bn with kspar
halo ½" wide

-190 More than half has green altn
Bi "fresh" or → chlorite

-264 Qtz - hem (ocherous) - calcite - anhydrite?? veins
MoS_2 along slip @ 30° to core
Qtz - MoS_2 - bn - minor cpy vein
70° to core
≈ ⅓ of core is altered to green

264-284 ½ green altn; 276 MoS_2 in shear
slips w. sericite altn are coated by
chl - hem - MoS_2 (specs)
284-330 → (Missing)

330-399 Qtz - cal. - MoS_2 - minor cpy
1/5 has pink altn
argillic altn locally
minlzd fractures have qtz - cpy -
MoS_2 + pyrite
Qtz - bn with attendant sericite
altn 30° to core

-470 Fairly common pink altn
Hematite veining common
sericite along slips
Pink altn is assoc with chl - ep
veins which contain cpy + py (the
veins are actually zones of local
altn along fractures)
Qtz - ser - cpy - MoS_2 veins with
assoc pink altn
MoS_2 + some hematite coats ser. altd slips + ~~contains~~
is in turn coated by calcite

Local thin aplite stringers

-541 1/5 Both pervasive + vein cntld pink altn
calcite veins uncommon zeolite
as coatings on fractures
Hematite - filled fractures
Qtz - MoS_2 veins - locally bxtd to gravel size

-612 Qtz - MoS_2

Rel fresh, local pink

Minor thin aplite 70° to core

Common calcite veins

'some xline

Qtz - ep - chlorite

-684 sericite slips w. MoS_2

cpy with some ep in a ksper-alt'd fracture

altn like preceding

aplite 40° to core

Qtz - hematite veins

-702 EOH sericite slips

local argillic (chalky) altn

Qtz - MoS_2 veins

Overall the hole has v lg x MoS_2 much better than Cu.

No where near ore

TRUE

so much for my eye!

Cu .15 over 120'; MoS_2 .015 over same zone

SHEBA 71-10

9B 81

8-54 Rel fresh Skeena with small argillic altd zones. Fracts with chl + MoS$_2$ + Fe oxide in blotches on them - argillic altn. occurs along these slips.

-126 Rust + Cu carbonates + locally chrysocolla occur to depths of

126 -250 Broken grd accompanied by intense chalky arg altn to core

slips 60° either way

some at low & to core

148-191 (Missing)

some aplite

250 → 310 then intermittent foot - size gouge zones to 310

local aplite

Fe oxide + cu carbonates occur

310 -355 (Missing)

Sheba 71-10

355-407 370-380 Mainly aplite

Quite fresh Skeena, local small areas of green altn

Qtz – cpy w. local K-altn assoc.

Qtz – cpy – MoS_2 in aplite (low & high core)

cpy replacing mafics

"Fresh" biotite is abundant (SECONDARY!)

-478 cpy-Bn-qtz w pink altn

cpy-MoS_2 in slips

overall fresh-looking

Qtz-MoS_2 Veins (one was 1/8" wide-spectacular)

cpy-chl along fractures

-549 Local malachite + Fe oxide

Qtz-epidote

cpy-chl + cpy-bn-qtz along fractures

local goodish zones

528-535 Pink Plag. porphyry (Qtz-poor)

Pink altn fairly common

71-10

-621 Rel fresh overall, local pink local wk green altn

sparsely minlzd Qtz veins with cpy pods
Qtz-ep-cpy
Fe oxide to 570'

621
-700 (EOH) simil up to 670 Then gougy + mod. green alteration
Fe oxide + mal in gougy zone
Gougy to EOH (fault @ bottom & to core?)

Sheba 71-11

°B 40'

40 - 90 Rel fresh Skeena
local argillic altn along
occasional chlorite cracks zones

similar to preceeding
— 162 ep + cal coating slips
local 1' gougy zones < pow → 30° to core
zeolite veins fairly common

— 233 similar to preceeding
local Fe oxide + malachite stains.

-304 - Rel fresh to 277, mod yellow (Fe oxide?) and green
altn. to 294 then fresh again

- Bi - ksper - qtz zones with cpy
pods + assoc. K - altn
actually, may be "pegmatite"

-377 Veins - calcite, zeolite
one 2' dk grn altn zone
rel fresh Skeena

-451

378 - 390 dk green delta zone
with chl. slips
Qtz - ep veins (uncommon)
local pink delta
rel fresh skarn

451 → 532 GONE

532 - 581 local pink delta
zeolite, calcite veins
thin gouge zones

581 - 607 (MISSING)

607 - 617 similar to 532 - 581

SHEBA 71-12

0 - 33'

33 - 82 Rel fresh Skarn
Local Fe staining

-154 Rel fresh some pink
chl-ep on slips
some gouge zones

-223 Rusty 176 - 180
Dk grn altn 185 - 188
chl-ep veins with assoc pink
altn

-299 250 - 270 Some gouge
some zeolite veining
almost fresh

-372 ~310 some hematite coating
slips
cpy in a rust halo on a fracture
pink altn along some cracks
some zeolite veins

-443 a small amt of dk grn altn
otherwise rel. fresh

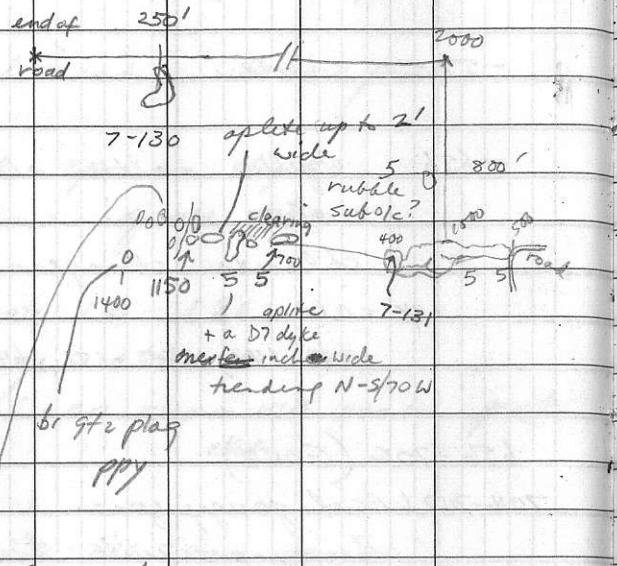
-515 Local pink altn } not
" green " } prominent

-585 Similar

-656 argillic altn along fractures
zeolite veins
chlorite stringers with assoc
K-altn
639-641, 645-646, 649-651 (Gouge)

656-704 (GONE)
704-748 Local gougy zones w arg. altn
otherwise quite fresh

748 (EOH)



aplite → bi gtz plag ppy → Bsda

some looks like Skeena

Traverse 36 aug 22/71

North ~~South~~ of Sheba - road takes off near old core shed on Highmont road

end of rd - Brg 090

2100' New Brg 180°

800 5 rubble o/c ?

1000 large area of o/c - Skeena cut by qtz - ep veins
stringers of pink bi qtz plag ppy
a few inches wide
006/37/2

chlorite on fractures

1150 "aplite" trends ~~030~~ 015°
up to 10' wide
contains cpy in rusty pods
7-131A + A-1

hb bi qtz plag ppy w. aplite matrix

IS THIS A BSDA DYKE?
7-131A 2 + 3

to 1400 where o/c ends 1500' clearing
pace 3130 TRUCK

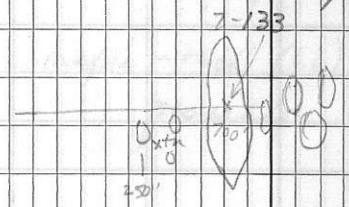
Traverse ~~33~~ 37 23/aug/71

East from Jericho Camp Sunny WJM DMVC 25

Brg 065°

250' o/c of mafic guichon with mafic chataway zones ie xtn thin peg. D7 stringers

Foln 150/70/2 Good



pace 800' Foln 020/90/0

Locally $b_1 > hb$

" $hb > b_1$

some areas which look like dyke rock are fg 3

1000' local ht of land

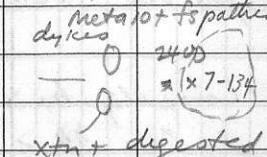
xtn + fg 3? dyke? $\boxed{7\text{-}133A}$

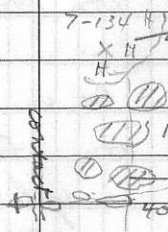
Bk in o/c to 1200

1200 xtn foln 016/90/0

+ aplite + Meta10 xenos +

areas of guichon





meta 10 + fspathic
dykes
2400
x 7-134

xtn + digested
xenos + white
qtz o feldo stringers

7-134 H
x H
H
mainly 1
meta 10 mainly
contact
MS
350
MS
xtn
400
150

Xtn + hybrid with well
digested + rexlld metased
inclusions

1350 Local ht of land
xtn, local "dykes" of 3
unable to get trend - seems
roughly E-W
mafic 3 + mafic 2 (less common)
types

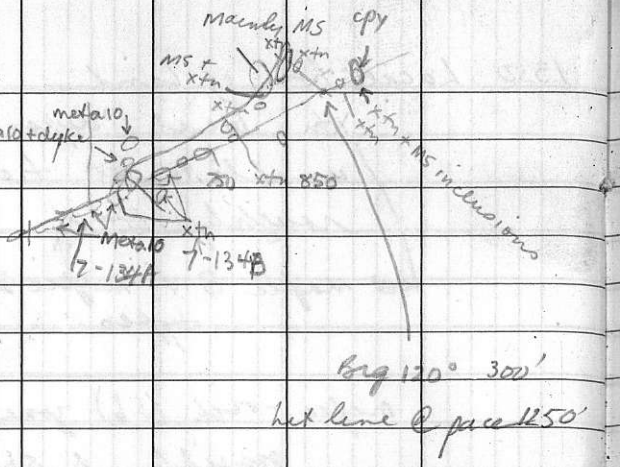
mafic-rich (hb) zone 155/20/1
possibly a shear
$\boxed{7-133B}$

1700', 1800' small ?c's

2400 Large ?c stn $\boxed{7-134}$
Pokes up out of the talus
like a finger almost -
fault bounded ???
Mainly hybrid! qtzo-felds matl
fills cracks, some pegmatoid
some meta10 xenos
New Brg 180
100 - Most of the rock is metased
with granitic matl in cracks. Some 1
010/62/1 relic bedding

225 Metased + dyke

350 metaseds with granitic matl
to 400 in cracks
150' along contour to contacts


Macuby MS cpy
xtn
MS + xtn
xtn
xtn

New Brg 050

550' Qtz - ep - tour - cpy - actin-
7-134B olite in vuggy veins
xtn
175/90/0 up to 4"
wide, poddy

— Lunch —

750' o/c is xtn to 750 where o/c ends

950, 1050 o/c's
on line
1250' 3 + fg 3 form networks in the
xtn rock

150's of line
o/c 100' N-S

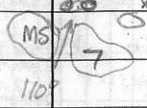
pace 1350 cpy in pockets w. rusty halos
along chloritized joint faces
7-134C

1750 Edge of Swamp

7-135 Gump Lk xtn + dyke + D7

150' Ht of Land — same
New Brg 020°
similar mat'l to 400 then o/c ends
to 600
o/c to right of line - Gump Lk
+ fg 4 dyke

qtzo-
cut by feldspathic
hybrid
xtn
stringers
& qtz & dykes



Brg 020 – 650'

Foln 110/12/1 fairly good

Gump like gives way to
meta IO to the north
← see sketch of rock type distn

Brg 350° @ 700'

150' Rock is mainly fg 4 dyke
Rock face 053/78/2 – parallel
to a fault
overlooking deeply incised valley

400' Gully Bottom

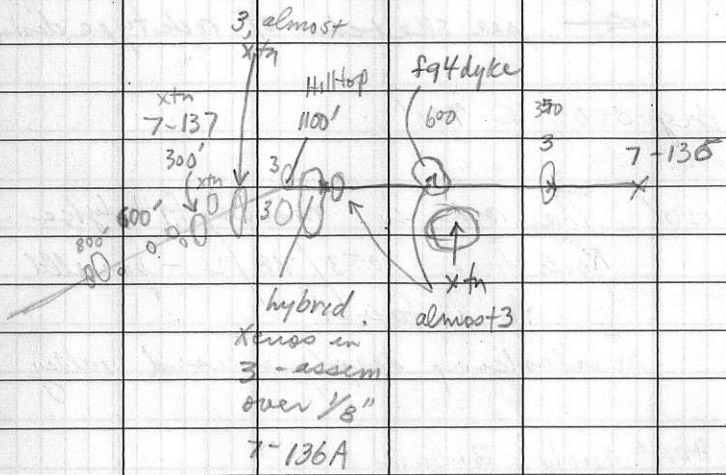
o/c along gully dyke + metased.
+ xtn 7-135A

7-135A New Brg 330° new pace begun

150' xtn

500 Brg 230 xtn

600 " " 150' xtn


3, almost
xtn
Hilltop
1100'
fg4dyke
600
350
3
7-136
xtn
7-137
300'
xtn
3
3
600'
800'
xtn
almost 3
hybrid
Xenos in
3 - assem
over 1/8"
7-136A

800' 75'@030 Tc of rock
7-136 which is very nearly 3
-15% interstat Kspar

New Brg 270

350' Foln 123/90/0
Guichon

400' New Brg 240°

300' Stn 7-137

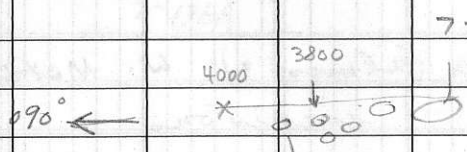
600 Xtn (almost 3) W. Metamorf. inclusions

800 Guichon + xtn mixed
foln 175/?

Brg 155 To Tc in burn
" 185 " " " "

800-2050 NO Tc

2050 New Brg 225



020/70/1 (Relic Bedding)
3500'

#38

Aug 24/71
Sunny 30

Traverse from Jericho Camp Area

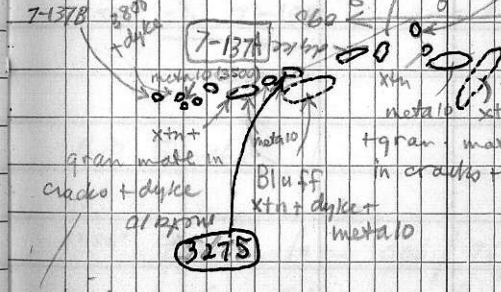
WJM
DMVC

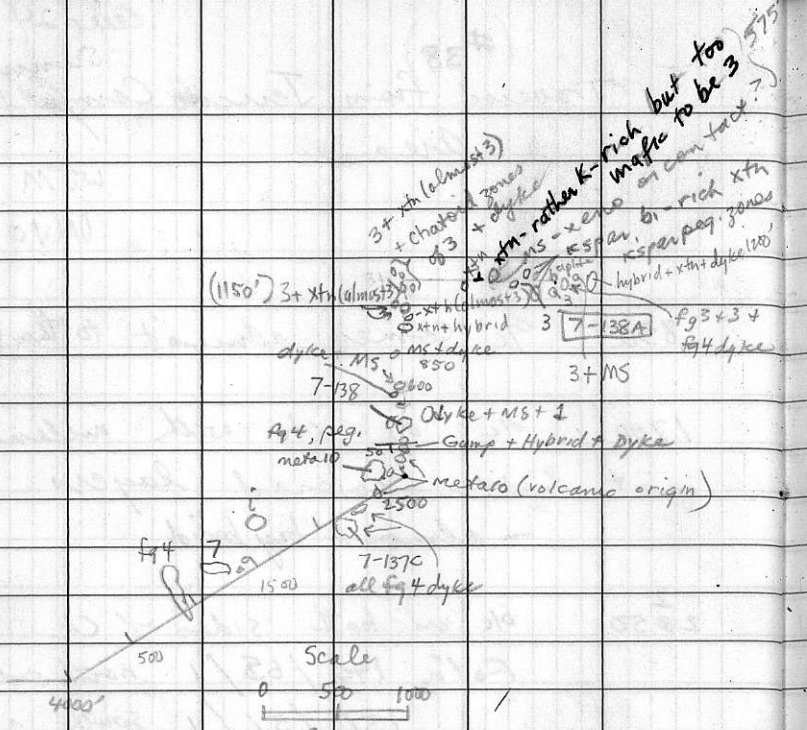
850' 9/c comes almost to the ck

1700' 9/c of xtn with melano. + lighter-colored layers — almost hybrid

2250 2 9/c on both sides of ck
Foln 140/65/1 north side
151/51/1 south "
Bl-rich xtn with metalo xenos

2500 xtn and hybrid





3+ xtn (almost 3)
+ chatoid zones
of 3 + dyke
xtn - rather K-rich but too mafic to be 3
MS - xeno or contact?
kspar, bi-rich xtn
kspar peg. zones
hybrid + xtn + dyke 1200'
(1150') 3+ xtn (almost 3)
xtn (almost 3)
xtn + hybrid
3
7-138A
fg3 + 3 + fg4 dyke
3+ MS
dyke
MS
MS + dyke
850
7-138
600
dyke + MS + 1
fg4, peg.
Gump + Hybrid + Dyke
meta10
meta10 (volcanic origin)
2500
fg4
7
1500
7-137C
all fg4 dyke
500
4000'
Scale
0
500
1000
feet

4000 New brg 045

800 o/c Trends 340
almost entirely fg 4 dyke rock

875 end of swamp

1100 7+ D7+ xtn o/c Trends 090

1350 Small o/c of 7+ D7+ MS inclusions
1450 " " " "

2200 - 2400 o/c's of fg 4
2500 Metavolc o/c

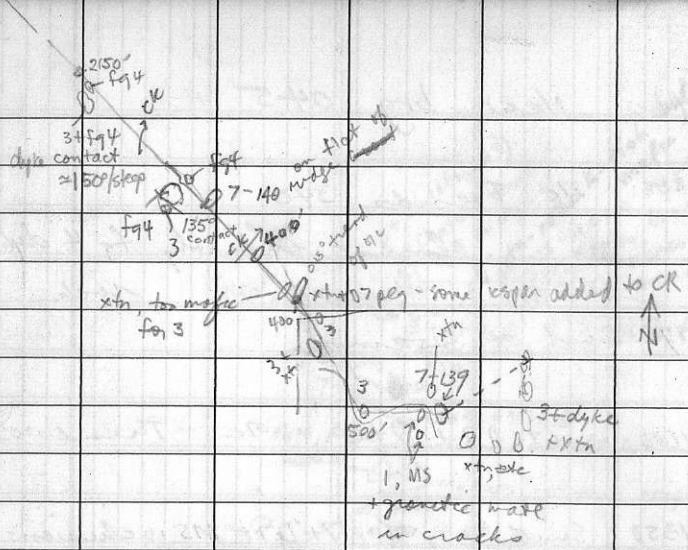
2700 New Brg 000

2100 Metavolc
150 7+ 1+ Dyke Foln 090/50/2
200 Dyke + metavolc; some malachite, Feoxide stain
350' stn 7-138 Local, trivial, ht of land

1150 Gneiss

1250' cpy Felsen as blebs on face 006/76/1 - some assoc
K-altn Rock is 3 or almost 3

1250' New Brg 090


2150'
fg4
ck
3+fg4
dyke contact
≈150°/steep
fg4
7-140
on flat of wedge
fg4
135°
contact
3
ck
400'
015° trend of ck
xtn, too mafic
for 3
xtn+07 peg - some kspar added to CR
400
3
3+xtn
xtn
7-139
3
500'
3+dyke
+xtn
1, MS
xtn, etc
+granitic mate
in cracks
N

1200' Ht of land
Hybrid + xtn + dyke

New Brg 225 ~~650~~ 700' Stn 7-139.

New brg 270 to 500' o/c of 3

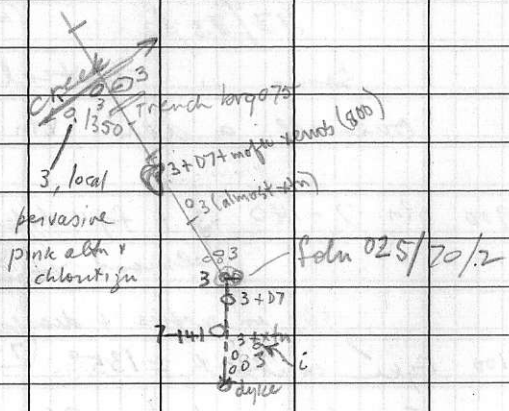
New Brg 335° to 450'
New Brg ~~310~~ 305°
cpy ~~[illegible]~~ replacing biotite + hb
Foln 165/40/2

400' Shear + altn zones up to 2" wide
113/83/2 (most ½" wide)
Some w central qtz veins
overall a dark xtn

900 Stn 7-140 3 + fg + dyke (?)
almost xtn

cpy in mafics + disseminated in the rock
1100 Dyke contact ≈ 135° $\boxed{7\text{-}139B}$
Guichon cut by qtz-ep-tour (?) veins
- some have pink altn zones
000/67/1

2150 Bonnie #21 Fr (FP)
New brg 000 for 700'

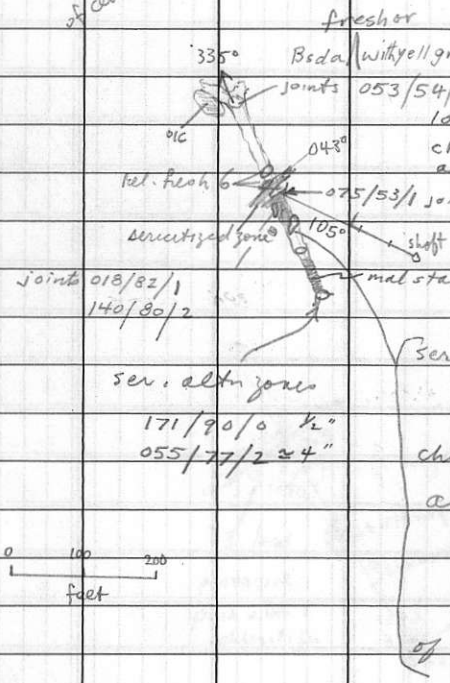

creek
3
3
1350
Trench brg 075
3+D7+mofu xenos (800)
3, local
pervasive
pink altn +
chloritization
3 (almost xtn)
3
3
3+D7
7-141
3+xtn
3
i
dyke
foln 025/70/2

Brg 000 400' Stn 7-141

New Brg 330 @ 700'

1350 Trench.


Blowup of centre of trench


fresh or
335°
Bsda with yell grn ser altn of fs + chl. bi
joints 053/54/2 sl. ser altn on them
locally have ep. coatings
chl. coats on ser.-iron oxide
altn zones along them
016
043°
kel. fresh 6
075/53/1 joint in altn zone + border of zone
sericitized zone
105°
shaft
sericitized zone w.
joints 018/82/1
140/80/2
mal stain; thin qtz stringers containing cpy
ser. altn zones
171/90/0 ½"
055/77/2 ≈ 4"
ser - chl altn zone 2"
wide 010/90/0
chl crack w. sericite
altn halo
051/80/2 1½" wide
123/67/2 - pods
of altn occur along it
0
100
200
feet

Sept 10/71
Cloudy, cool
WJM

Empire Showing
(7-143)

Traverse 3f

~~St~~ Sericitized zone w. alternating
fs-rich + ser-rich 1/4" layers
023/48/1 2'+ wide

The ore is mainly bornite as veins and ~~bt~~ disseminated blebs in dk green sericitized zones. Locally, pervasive pink (K?) altn accompanies the sericite



altn082/90/0
dump
233/50
edge of entrance
decline
altered zone
decline
shaft
058/72/2 sericite zone

In the dump, specimens have quartz veins with carbonate as late-stage infillings and bornite. Bornite occurs as late-stage fillings & occupies cracks in the vein.

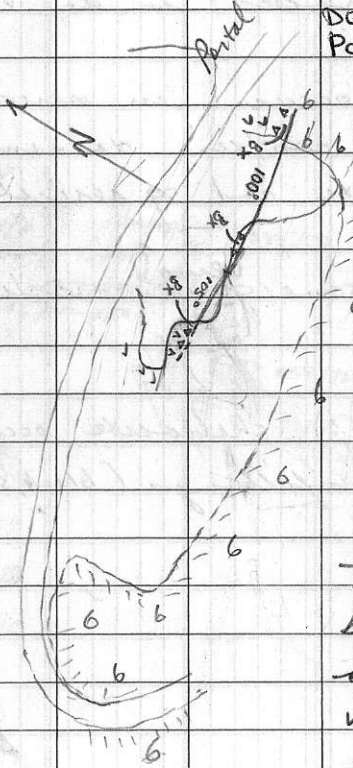
The veins occur in sericitized zones which contain disseminated blebs of bornite and eg sericite

The borders of some grains? veins? are lined with mos$_2$ (?)

Some primary (?) chalcocite occurs as late-stage infillings (black, sectile)

10/9/71

Decline has gone down through the dyke & has hit minable (probably) ore between the dyke & the fault


Portal
DECLINE
PORTAL (ALWIN)
N
6
6
6

Light Showers
10/9/71

Alwin (7-144A)

Traverse 40

area being prepared for the crusher

Qtz - black gouge vein 088/78/2
1½" wide in 6

Strias 335/76 on face 105/90/0
intense clay altn along this one!

Qtz - och. Lem vein 027/51/2
2"

a few ft away is a subparallel
clay gouge shear zone

Clay - gouge zone 178/85/1

Striated face 100/88/1
strias plunge 74° NW
in och. Lem + sulphides

Clay gouge (10" wide) 045/68/2

Black gouge 2" wide 100/80/2

Photos

color

1. Aster

2.
3. } Yarrow

4 } Breccia + plug / Granite
5 } contact – Alwin

B/w

1
2 } volc Bsda Bx + ~~contact~~ – alwin
3
4

dyke 15' 000/83/1

Joints in dyke 120/86/1
048/40/2

CR 073/26/2 prom.
015/90/0 4'
133/83/1 10'

a few hundred ft past 2 mile - reservoir turnoff
2½ " pipeline crossing

3½ " rd goes to rt +
%c74 on road