Tay Mtn Reece 14 Aug

3066) Dk. gray brown B-M-A schist (3G or 1D)
PS2 137 16 NE

3067) 3G schist w/ CS bands
PS2 126 30 NE

3068) As 3066 w/ many dk gray to black andalusite ?? porphs.; PS2
S2 157 36 NE

3069) 10B: no megacrysts for "70 70 NW

3070) 10C w/ 3D screens: v. leuco 10C, unfoliated
S2 in 3D
S2 012 40 NW

3071) 10B: v.f.g. bio rock

3365 musc. bio gneiss
fol'n 088/28 N.
as 3363 only not rusty.

3366 10 A.
- equigranular. bio qtz monzonite or bio granodiorite
- med → fine grained.
~15% bio
~10% qtz.
minor clotted bio.

3367
reddish weathering
bio musc. gneiss.
fol'n = 020/22 W.

3368
fol'n 069/29 SE.
rusty red weathering.
bio-musc. gneiss/schist? in contact w/ equigranular bio qtz monzonite.
sample.

2937

080/10.5 PS_2

bio rich qtz-feld sch

2938

147/11 NE S_2

grey bio musc and schist/phyllite
and bio musc qtz feld schist

(2939) slightly foliated equigranular
biotite granodiorite(?)

2940

122/5SE PS_2
bio >> musc : [illegible] musc-bio
qtz-feldspathic schists.

2941

010/6W CS_2
grey qtz musc graph phyllite

280/6 L_3(?)

L_2 ~ 130 but cant get with
certainty

320 LX Pacific Rampart

3060) 3D : v. rusty ocp of pyritic 3D w/ some SO_4 devel. on weathered surface

PS2 60, 50 NW

Non-rusty phyll across ck. ~~to~~ W

3061) 3G schist ? : lam banded dk-gray brown, non-calc schist w/ prominent siliceous (metaquartzite), foli a & v. minor CS interbands

S_2 100, 25 NE

$L_2 = F_2$ 100 2 SE

$F_2 \equiv Z$ as obs.

Some bands slaur bearing. Unknown whether 3G or 1C7 ??? Unit intruded by v. f. xlline bio QM (?) dike w/ many "rounded" to "subangular partially resorbed xenoliths of 3G/1C

(3062) 10B : v.f. xlline bio QM, no megacrysts, no musc., sample only

RESEARCH SAMPLE LOG

PROJECT: Rb/Sr ANVIL BATHOLITH — ANVIL BATHOLITH/TAY MTN. PHASE

STATION: AR 1 — Biotite-muscovite quartz monzonite

DDH: _____ DEPTH: _____

LATITUDE: 62° 33.4' N LONGITUDE 134° 02.0' W

HAND SAMPLE: Fine-grained, poorly foliated, equigranular intrusive.
Staining shows K-feldspar/plagioclase ratio roughly 1/1
Plag. subhedral. K-feldspar anhedral, interstitial, irregular selvages around the subhedral plagioclase.

THIN SECTION: ✓ Stained reject block (for K-feldspar)

POLISHED SECTION:

POLISHED THIN SECTION:

ANALYSIS: ✓ XRF – total Rb and Sr

PROBE:

XRD:

ISOTOPE:

FOSSIL:

STAINED: ✓ for K-feldspar (slab)

OTHER:

COMMENTS:
Rb ppm 241.62
Sr ppm 214.55
Rb/Sr = 1.126

THIN SECTION LOG

good sample for Rb/Sr

PROJECT: _____

STATION: AR-1 DESCRIBED BY: LCP

DDH: _____ DEPTH: _____ DATE: Nov 5/1981

UNIT: ANVIL RANGE PLUTON

ROCK NAME: Biotite-muscovite quartz monzonite

HAND SAMPLE: Fine-grained, poorly foliated intrusive. Staining shows plag/K-spar ~ 1/1
Plag subhedral. K-spar anhedral – interstitial to larger grains. – irregular selvages around the subhedral plag. No visible feldspar phenocrysts

PURPOSE: Rb/Sr

Both K-spar and plag have relief < quartz

Biotite pleochroism
pale tan
brown

Plag ⊥ a $\alpha \angle 010$

An_{35}	3°-5°	biaxial +	center
	5°-6°		rim
An_{47}	18°-18°	biaxial –	center
An_{36}	8°-8°	biaxial –	
An_{37}	8°-9°	biaxial –	
An_{43}	19°-13°		

	EST.	POINT CT.
QUARTZ	35	
K-FELDSPAR (orthoclase)	20	
PLAGIOCLASE	25	
BIOTITE	10	
MUSCOVITE	10	
ZIRCON	Tr	
OPAQUES	Tr	

COMMENTS: Plag shows normal concentric zoning. Plag subhedral. Quartz and orthoclase anhedral.

Orthoclase has minor perthite texture – no twinning – forms large irregular grains – well developed locally in T.S.

Plag commonly twinned. Cores more calcic – commonly slightly more sericitized. Only minor sericitization.

Qtz commonly has no undulatory extinction. Minor vermicular intergrowths w/ plag.

Micas crudely define foliation. Biotite narrow flakes which look more shredded than muscovite. Muscovite coarser flakes – commonly wavy extinction.

Zircon & opaques as small grains associated w/ biotite. Good damage halo around zircon.

Grain size generally < 2mm

No major alteration present – only minor sericite development in plag.

TAY MOUNTAIN PHASE N.T.S. 105-L-08, 09 and 105-K-05

Station	Foliated	Porphyritic	Grain Size	Mafics
2939	Y	N	-	bio
3062	-	N	very fine	bio
3069	Y	N	-	-
3070	N	-	pegmatite	-
3071	-	-	very fine	bio
3366	-	N	medium	bio
3368	-	N	-	bio
AR01	Y	N	medium	bio, musc