

896654

JULY 1983 TRIP

HIGH MONT EAST PIT

W. McMillan

see NOTEBOOK P 83-14 & 83-39

Sample	Processing Instructions	STAIN
M1E	Cut, thin section	IE ✓
Waste?	'Fresh' skeena w. gtz-cpy-py-br? veins, pink halos	
M2E-1	2 cuts, thin section	2E-1 ✓
Good Grade	veined altered skeena gtz MoS ₂ Br? stockwork cpy	
M2E-2	cut, thin section	2E-2 ✓
Waste	Olive green altn (2) mafic → sericite, pink adj. to fr.	
M3E-1	cut, thin section	3E-1 ✓
waste	Moderate altn (1-2), mafic → chl, gtz-py fr (or fresh)	
M3E-2	FLUID INCLUSION SAMPLE	3E-2 NO
ore vein	gtz-cpy-MoS ₂ -gtz white, sugary	
M4E	cut, thin section	4E ✓
Low grade	Bn-cpy fr calcite fr altn (1-2) mafic → chl epid. fr.	
M5E	cut, thin section	5E ✓
Low grade	Bn-epid-chl? fr, och hem fr, epid-chl fr w pink halos	
M6E-1	cut, thin section, cut gtz-cpy.bn veins	6E-1 ✓
Low grade	cpy fr, cpy-bn-chl fr, bio fresh plaq 'fresh', hb fr-chl	
M6E-2	large sample - 2 cuts, thin section	6E-2 ✓
ore?	Rock rel. fresh but mineral fr 1-3 cm apart	
M6E-2	gtz cpy bn / pink halos, cpy fr, cpy-bn-chl fr, mafic 'fresh' veins	6E-2 ✓
M7E good ore	cut, thin section; green fs altn (2) disseminated + fr cpy some pyrite?	7E ✓
M8E ore?	thin section, slab; 'fresh', cpy in alt. hb, fr 1-2 cm cpy-bio (?) fr, bio fresh, hb → second. bio? gtz cpy MoS ₂	8E ✓
M9E-1 LR	cut, thin section; orange (red?) altn on fr, ap chl cpy fr, patch tourm. veins	9E ✓
M9E+1SE	cut, thin section,	9E+1S ✓
Waste	'Fresh', ep fr + altn out from fr, mafic → chl (2)	
M9E-2 vein	Quartz-MoS ₂ vein - FLUID INCLUSION STUDY	9E+2 X

HIGHMONT EAST PIT

Sample	Processing Instructions	STAIN
M10E-1 ore	Cut, thin section	10E-1 ✓
M10E vein	OK grn altn on fr, disseminated? cpy & bn with gtz + flaky ser.	10E-2 ✓
M10E-2 waste	Crackled quartz, mss - cpy vein FLUID INCLUSION multiphase	10E-2 ✓
M11E-1 waste	Cut, thin section; KaoL fr, chl - mag(?) fr altn (1-2) argillite, mafic → chl or locally to sericite one cpy - gtz fr w. ser. halo	11E-1 ✓
M11E-2 LH	Cut, thin section; chl - bn - cpy fr w. pink altn (not espal), mafic → chl (2)	11E-2 ✓
M12E [supposedly Hg]	Cut, thin section; KaoL fr, cpy in alt. mafic plaq altn pale emerald green sericite; Mss fr; disseminated mss and cpy in mafics	12E ✓
M13E [supposedly Hg]	Cut, thin section; late carbonate coats fr. altn argillite 1-2, bn + bn-chl fr, kaoL fr, mafic-chl (3sets)	13E ✓
M14E waste	Cut, thin section; plaq altn (1)	14E ✓
M15E ore	Cut, thin section; plaq clouded altn (2) pink + green gtz - cpy - chl? bio? fr with pink halos, mafic → chl/or	15E ✓
M16E (fr < 1cm apart) (at least 2 mmndd sets)	Cut, thin section; plaq altn (1) steel glassy in part kaoL fr, cpy - bn - bio? fr, cpy - ser fr, mafic → second. bio. flaky	16E ✓
M17E-1 waste?	Cut, thin section; plaq altn (1-2) clouded mafics → biotite, pink altn on fr, kaoL fr, bio fr	17E1 ✓
M18E-2 LH?	Cut, thin section; plaq altn pink (2), gtz - bn vein - very; some cpy pink altn with gtz Mss fr, pink zone with wavy gtz - ep - bn in core patches of secondary bio (chl?)	17E2 ✓
M18E ore	Cut, thin section; plaq altn weak (1-2) shaly kaoL fr, late carbonate fr, gtz/bn veins w. flaky ser. halos, mafic fr → chl (1-2) wavy bleach halo gtz fr cuts flaky ser., chl - bn fr,	18E ✓

HIGHMONT EAST PIT - West End.

- HE 1-1 cut, thin section; plaq altn weak (1), mafic 'fresh', kaol/carb fr,
(waste) local pink altn blebs (STAIN)
- HE 1-2 cut, thin section; bio fr, plaq clouded altn (1-2), hb partly → bio?
(LG) cpy - bn - qtz - actinolite? fr, (STAIN)
- HE 1-3 MoS₂ fr, pink + green fs altn (2) local (1) grainy green fr
(moszore) coatings + carbonate (cut, thin section) (STAIN)
- HE 1-4 Sheared MoS₂ fr, assoc pink fs altn (3)
(moszore) (cut, thin section) (XRAY, STAIN)
- HE 1-5 Qtz MoS₂ vein cut by? cpy fr [FLUID INCLUSION]
(ore) SECTION
- HE - 2-1 Plaq altn wk → pinkish (1-2); qtz cpy fr - two sets; kaol fr
(LG) (cut, thin section) second. bio? w. cpy in pods (STAIN)
- HE - 2-2 Rich qtz - cpy. MoS₂ vein with shears - one w.
(ore) coated by slickensided pyrite [FLUID INCLUSION STUDY]
- HE 2-3 Dark olive green fs altn (3), mafic → sericite (STAIN)
(waste) (cut, thin section)
- HE - 3-1 Qtz - cpy - bn vein with mod. plaq altn at border
(ore) tourmaline? in vugs [FLUID INCLUSION] (---)
- HE - 3-2 Qtz - cpy vein with vugs lined by qtz + filled by cpy,
border zone is) MoS₂) brg. [FLUID INCLUSION]

East
Highmont Pit (west end)

HE-3-3 Pink plagioclase (2), mafic \rightarrow chl (cinn cpy) (STAIN)
(LG?)

HE 3-4 Cpy - ser fr (hornblades adj \rightarrow biotite) (STAIN)
(ore) gtz - cpy - bn veins with pinkish actn halos, chalky kaol fr
(cut, thin section)

HE 4 Plagioclase ^{weak} ~~weak~~ ^{weak}, mafic partly \rightarrow chl, gtz - tour - cpy fr (STAIN)
(waste) (cut, thin section) gtz - chl fr

HE 5-1 Green plagioclase adj. to fr, bio \rightarrow chl, hb rel. fresh (STAIN)
(waste) gtz - chl fr,
(cut, thin section)

HE-5-2 Dark olive green actn, mafic \rightarrow ser, minor disseminated cpy (STAIN)
(waste) (cut, thin section)

HE-5-3 Plagioclase pink (1-2), pods of tourmaline \pm gtz \pm epidote (STAIN)
(waste) (cut, thin section)

HE-6-1 Rock gray, plagioclase (1-2), pink + green adj. to fr; of epid.-chl,
(waste) bio fresh, hb \rightarrow chl, some chl - cpy fr (STAIN)
(cut, thin section)

HE-6-2 Gray rock, plagioclase (1-2), bio fresh, hb \rightarrow bio ?,
(LG) chl - cpy - bn fr, gtz - cpy fr with actn halos
TWO SETS OF FRACTURES (STAIN)
(cuts, thin section)

HE 7 Dark ol. green fs actn (2), cpy on fractures, local pyrite
ore (STAIN)

HE 8 Dark green fs actn (1-2), mafic \rightarrow ser, cpy + cpy - bn fr
LG? gray carbonate on fractures, cpy - ser ? fr - two sets (STAIN)

Hightower East Pit (west end)

HE - 9 - 1 Sheared quartz - MoS₂ vein - [FLUID INCLUSION]
(MoS₂ vein)

HE 9 - 2 Dark olive green fs altn (3), gtz - cpy fr, some pyrite (STAIN)
(LG) (cut, thin section)

HE - 10 - 1
(vein) gtz - cpy - pyr vein, cut by ser-gtz - cpy fr.
[with MoS₂ zones] [FLUID INCLUSION]

HE - 10 - 2 Dark olive green fs altn (2-3), mafic → chl, cpy fr
(waste) (cut, thin section) (STAIN)

HE - 11 - 1 Gray rock, fs altn (1-2), bio 'fresh', hb → bio?
(LG) cut by flakey ser zones with cpy, zeol fr, carb. fr, (STAIN)
(cut, thin section)

HE - 11 - 2 Slightly less altered, gtz - ser - cpy fr ^{+ bn} ~ 1 cm spacing,
(ore) (cut, thin section) (one unlined set of fractures) (STAIN)

HE - 11 - 3 more altered (2-3), flakey ser zones wider, bornite - ~~rich~~
(HG) patches of bio or tourmaline, zeol fractures
cut, thin section (STAIN)

HE - 11 - 4 Gray, bio + hb → second. bio (+ cpy), cpy - bio fr
(ore) cut by aplite that is cut by unlined fr. (epidote on
border of aplite locally)
(cut, thin section) (STAIN)

HE - 11 - 5 Gray - green, fs altn (1-2) mafic → chl, local epid. altn
(waste) (cut, thin section) (STAIN)

Highmont East Pit (west end)

HE-11-6 Qtz - flakey ser - cpy fr ~ 1 cm apart, gray rock (fs 1-2)
(ore) magic \rightarrow bio? , kaol. fr. (STAIN)
(cut, thin section)

Highmont WEST Pit (near bottom, north side)

HW 1-1 weakly altered (1-2) Skeena ; fr - 1 set, < 1 cm apart
(ore) gtz - ser - cpy^{py?} (?) + chl - cpy fr , kaol fr (STAIN)
(cut, thin section) gtz - flakey ser cpy zone

HW - 1-2 Mo S₂ - cpy - pink calcite vein [FLUID INCLUSION]
(vein)

HW - 1-3 Qtz - ser / zones with cpy^{bn} / gtz in centre - CR intense
(ore) argillite alter.
(cut, thin section) (NO STAIN)