

Lab 49980N 49465E SBOC 1X14GAGNEFFC GS HFX PYD)CPF)MGF)KFE+QZ=PL)
TRCH

REMARKS: Located in trench, angular boulder
Rock Name: Hornfelzed Mafic Tuff? - Intrusive/Sed? Contact

Lab: 170pp An 26896u maybe felsic tuff
or unit 3
orange pf phenos, some
biotite

- highly silicious with free quartz in microfractures and veins
- secondary carbonate 2-3%
- spots and patches of epidote 2-3%
- K-spar alteration as envelopes 5%
- magnetite 2-3%, mainly fracture controlled
- chalcopyrite as clots and disseminations 1%
- pyrite 2%, subhedral disseminations and fracture controlled

Sequence of events Qtz/Car - Mag - Cpy

Lab 49985N 49480E TRCH3X2 7GATF FC GS HFX PYD)MGF) EPO+CLPPL)
SBOC

REMARKS: Located in trench, outcropping on side, possible subcrop
ROCK NAME: Mafic Tuff

Lab: 40 Au, 18816u intense spalth, chl, mg
? original rock?
- may be under ⑥

- fine grained with limited hairline bleaching
- medium pervasive green to light greenish grey
- minor epidote/ chlorite alteration, no carbonate
- disseminated and fracture controlled magnetite 2-3%
- no visible chalcopyrite or malachite stain

49946 50812 SBOC1X1 3ANEF MX GS DRX PYD)PYF) MGQ<
FLT

REMARKS: Located just east of Road showing in logging cut.

Rock Name: Fine grained Diorite? cut: fragment tuff w/ some intrusive fragments in internal spalth
fine py network silicified.

- plagioclase phenocrysts (.1 cm) in dark grey to black matrix
- pyrite 2-3% as disseminations and in fractures
- slightly magnetic
- no visible chalcopyrite or malachite stain

Lab 49945 49350 TRCH2X3 3A KFTFMX GS PHX PYF< PLK

REMARKS: Old trench with outcrop in centre
Rock Name: Mafic Tuff or Mud-Siltstone

40 ppb, 548 Cu
Fine grained tuff, massive w bleaching
along fractures w py, some xcut
no noticeable frag. may be unit 6

- fine grained, moderately bleached
- rusty with manganese stain
- float rocks in trench are similar in composition but are more oxidized with minor malachite stain
- pyrite .5 - 1% disseminated and fracture controlled.
- trace to minor magnetite along fractures
- two preferred fracture orientations of 060 degrees dip 65N and 125 degrees dip 55 SW

Lab 50000 50695 SBOC1X1 7NATFGNSK GS HFX PYD)PYF<CPV<QZV2MG)MC<
KFF=

REMARKS: Sample located on north side of road, very angular sub-outcrop, may
ge transported but not too far
Rock Name: Mafic Tuff

- fine grained
- highly silicified
- quartz stockwork with associated K-spar and magnetite
- chalcopyrite related to stockwork
- minor to trace calcite in fractures
- rock appears to have been near to contact. Quartz looks sweaty and blastos, unlike vein quartz

Lab. 49945 49350 TRCH2X3 3A KFTFMX GS PHX PYF< PLK

REMARKS: Old trench with outcrop in centre
Rock Name: Mafic Tuff or Mud-Siltstone

40 ppb, 548 Cu
Fine grained tuff, massive w bleaching along fractures w py, some extent to noticeable frag. may be unit 8

- fine grained, moderately bleached
- rusty with manganese stain
- float rocks in trench are similar in composition but are more oxidized with minor malachite stain
- pyrite .5 - 1% disseminated and fracture controlled.
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49930 50855 SBOC1X1 7AOPP MK GS MZX PYD< CBF3CY2PL<

REMARKS: Rock located in log landing just east of Road Showing, numerous angular boulders suggesting source is near - under 5 metres?
Rock Name: Highly Altered Monzonite?

Cut: qz-plag pp - int. - hf? w sericitic mica flakes hard

- clay alteration of plagioclase phenocrysts in carbonate altered matrix
- massive, no stockwork or veins of quartz
- non magnetic
- pyrite < 1%
- no chalcopyrite or malachite stain

49470 48535 SBOC 1X93ANKC MX SS CGX QZP1

REMARKS: Rock located along Kluskus logging road near camp
Rock Name: Silicified Conglomerate

- pebbles - cobbles of quartz (sandstone) 60-80%
- " argillite (mudstone) 10-20%
- " volcanics ? 10-20%
- subangular to subrounded
- average .75- 1.0 cm
- largest 4 cm
- non mineralized or carbonated
- silicified, located next to intrusive
- non magnetic

49300 50700 SBOC1X1 6A GN MX SS HFX PYD)PYF< KFO+

REMARKS: Considered as specimen for type of rock possible on grid
Rock Name: Hornfelzed - Silicified Volcanic with Intrusive Fragments

- pyritic float at top of small ridge
- subangular to subrounded

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Lab 49985 49680 TRCH1X1 0GAGN FC GS HFX PYB+MGB+ QZ#1CL1
SBOC CB2

REMARKS: Located in trench-pit nearest to logging road

Rock Name: Alteration Breccia ?

- iron carbonate 20-30 %
 - pyrite 5-10 %
 - magnetite 10-15 %
 - quartz 10-20 %
 - altered sed/vol 30-40 %
 - Intrusive float is also altered similar to that of the volcanics
 - rock may have been sheared first then introduction of mag, py etc.
- add desc: possible vein? qz-cb 'eye' w clots & stringer
speche, cuprite, py, cp
massive area of py+cp, mg, qz some ch, cb
no original rock remaining, may be highly chloritized*

Lab 49985 49645 TRCH1X1 7GAAP BX GS IN7QZ3PYD)PYV) QZF2
SBOC

REMARKS: Intrusion Breccia x.

- monzonite fragments floating in silicious matrix
 - aphanitic dyke also penetrating through rock of monzonitic composition
 - sub - euhedral pyrite, coarsegrained surrounds fragments
 - fine grained anhedral to euhedral pyrite with silicious alteration
 - non calcareous
 - non magnetic
 - no visible chalcopryrite or malachite stain
- cut desc: silicified, rounded fragments of altered intrusive and other rock types in fine grained hard matrix. Py strat front controlled mainly in matrix
dyke? present, varying degrees of silicification*

Lab 49980 4946162 TRCH1X1 40APP MX GS MZX PYD<DPF<MR<)QZF1 MI)

Lab 155Au, 4017Au

PL)

REMARKS: Sample located in trench but moved by Cat. *Unit 3, mg in mat, some qz*
 Rock Name: Plagioclase Monzonite Porphyry *op dis & veins w py*
Some bi phenos.
 - 15% phenocrysts/85% matrix, all phenocrysts all plagioclase (non crowded)
 - phenocrysts are smaller than average sample type, near contact or is a dyke
 - minor silicification, little to no quartz microfractures
 - malachite stain .5-1%
 - manganese stain 2-3%
 - minor magnetite along hairline fractures

Lab 49987 49480 TRCH1X1 4ANKF FC GS HFX PYF<CPF< QZF<CY+ML<
 SBOC *Lab 80pphr 3892 Au* CBF+ PL+

REMARKS: Sample located in trench but moved by Cat
 Rock Name: Mafic Tuff *multiple qz veins, minor magnetite, possible tuff*
 - non magnetic
 - fine grained
 - moderate bleaching with minor quartz veining along fractures, clay alteration
 - pyrolusite and malachite stain on weathered surfaces
 - pyrite +_ chalcopyrite <1% along fractures

49930 50825 SBOC1X1 8ADPP MX GS MZX PYD< CBP3CY3PL<

REMARKS: Rock sample located just east of Road Showing in log landing
 Rock Name: highly altered Monzonite *cut plag-qz-bi in fg matrix, minor dis sulphides*
 - similar to 50855E/49930N rock sample except both alteration features are stronger

Lab 50000 49625 TRCH1X1 60AEMPPFC GS MZX PYD)CPF<PYF<FK<)MG)ML)
 SBOC PL)

REMARKS: Located in trench but moved by Cat
 Rock Name: Plagioclase Biotite Monzonite Porphyry - semi crowded
 - 50-60 % plagioclase phenocrysts in fine grained k-spar matrix
 - 85-95 % of phenos are subhedral plagioclase/ 5-10 % are euhedral biotite
 - no high fracture density or qtz veining *cut: plag-bi in fg matrix, mg in matrix, qz-mg w/py-op centre fracture fill*
 - slightly magnetic and carbonated
 - plagioclase clay altering
 - minor pyrite and chalcopyrite along fractures *- looks like altered RS112?*
 malachite stain on weathered surfaces *- more pf phenos, more pp looking than RS112*

49560 49970 OTCR5x8 5G FW MX06075NOSS ANX PYF< CLF< PL<
 16085WE *cut: green, fine grained tuff? small wtc plag blocks, massive, qz veins & py throughout*

REMARKS: Located just north of large swamp
 Rock Name: Andesite Flow
 - medium green, fine grained, massive, poorly fractured
 - no fracture filling, minor qtz-pyrite < 0.5 %

Lab 49461 49980 TRCH1X1 50WEMPPMX GS MZX PYD< CYP3KF?ML<
 SBOC *75 Au, 1612 Au, cut dex: cb alk in orange fg matrix, milky white qz or plag* CBP2 PL)

REMARKS: Angular float - pushed by Cat
 Rock Name: Clay Altered Intrusive *some sil rich fragments w py, py also fracture controlled kf in matrix*
 - feldspars totally altered to clay

- manganese and malachite stain <1 %

✓ 49420 48520 SBOC10X3WNAPPEMMX SS MZX PYD<

REMARKS: Sample located on road just before entering Kluskus Camp

Rock Name: Plagioclase - Biotite Monzonite - semi crowded

- 50-60 % phenos - 90%^{15%}plag/10%bio *Cut: plag - bi monz? kf content? - similar to rock w qz-mg-cp vein*
- matrix is fine grained with 20% K-spar (primary?)
- plag to 1 cm, slightly clay altered
- slightly magnetic
- pyrite < 1%, disseminated
- no qtz veining or carbonate alteration

✓ 50000 47980E FLT 1X1 5ANGN MX GS HFX PYD)PYF< BID=KF+

REMARKS: Located next to small pond

Rock Name: Pyritic Hornfels

Cut: intense bi altn fractures & dis @ contact w yellow altered schistose pp? bi altered = pptuff?

- subangular float, source probable just up-slope near contact to Quartz - Monzonite

✓ 49020 51370 SBOC3X56AGAPGNMX SS HFX PYD<PYF<CLP=

Rock Name: Hornfelzed Tuff?

cut fg pp (pf) tuff w fracture alteration of bi? hi dis ppt content, chalcite along some fractures

Lab 49990 50665 FLT 1X1 5AWPP FC GS MZX PYD)CPK<MGK<KFP3CY=MC< PYK< MGK<QZK+ PL<

REMARKS: Sample collected on south side of road, angular float

Rock Name: Plagioclase-Biotite, Quartz Porphyry

- 40 % K-spar in matrix (some is secondary?)
- phenos 40 % of total composition
 - 85% plag semi crowded
 - 5-10% bio
 - 0-5% quartz
- matrix is fine grained
- 1-2% quartz microfractures/veins
- pyrite 1-2% diss/frac/coating
- chalcopyrite .1-.5% fracture, associated with magnetite and quartz
- malachite, coatings .1-.3%
- magnetite 1%, coatings and fracture surfaces

Lab 49990 49650 TRCH1X1 3ANKF FC GS HFX PYD<MGF)CPF<CLP=QZ+ML 45 Au, 24836 SBOC lab pp tuff? vfg blackish matrix

Rock Name: Mafic Tuff

xcutting qz-mg-cp-py stockwork loss bi in matrix

- fine grained, dark grey to black
- quartz-magnetite-chalcopyrite stockwork
- malachite stain on weathered surfaces
- bleaching along fractures
- chalcopyrite <1% in fractures
- pyrite 1-2% very fine grained, disseminated/fracture
- epidote as patches and in microfractures, calcite 5% along fractures
- moderately to highly silicified
- * small felsic phenos/fragments associated with magnetite
- sub-hornfels?

KME06 50360 48670 SBOC1X1 GS HFXQV)PYD)PYF) KFP?

REMARKS: Suboutcrop along slope? Very angular.

Rock Name: Highly altered Tuff? Latite?

- Massive sulphide and silicified composite adjacent to limestone
- Poor exposure, rusted, no fresh surfaces
- Contact sharp with limestone @ 173/85N
- Limestone weathers black clay

C3502 50760 48380 TRCH 5026NBD C\17385N/ GS LSX MN
 REMARKS: ADJACENT TO ABOVE SAMPLE
 Rock Name: Limestone

- Well bedded limestone, some grit.

C3503 50770 48380 TRCH BD168 CM 50LS? PYV) MN
 REMARKS: Composite sample
 Rock Name: Silicified Rock?

- Silicified rock with prominent mineralized structure @ 090.
- Bedding vertical? @168?
- Py subhedral in cubes; rock very hard, weathered

C3504 50778 48377 TRCH BD10890 GS100MSX PY
 REMARKS:
 Rock Name: Contact Silicification

- Silicified massive sulphide contact with limestone.

50595 49230 SBOC 30 TOEFFP GS MZX PYD.
 REMARKS: TOP OF HILL IN UPROOTED TREE, FLANKS MAG HIGH.
 Rock Name: Fine grained clay altered Monzonite

- Almost granular, phenocrysts rounded
- Sericite and clay in matrix
- K-spar throughout matrix.
- Poor sample

*Unit 4 Sealtn of biotite
 non mag
 py dr. throughout <5%
 black weather products
 5cm
 not silicified*

50820 48415 OTCR 506TAPPMX GS MZX PYD+(MGD)
 REMARKS: Uprooted tree next to drill hole
 Rock Name: Porphyritic Quartz Monzonite

- 15% plagioclase, 5-10% biotite, kf, py, qz
- vesicular weathering surface

*1cm weathered surface
 cut desc silicified? grey w/ phenocrysts
 vague outlines, minor bi(5%) books, py clots/
 desc ~ 5-7%*

50440 49065 SBOC/FLOT GS MZX PYD=QZQ=CPD?
 REMARKS:
 Rock Name: Intrusive?

- Heavily silicified, abundant k-spar
- Qz veins and patches throughout, some vugginess
- Not a fresh sample

51540 47970 FLOT EFVV GS HFX PYV+
 REMARKS: Abundant subcrop from reconnaissance line
 Rock Name: Fine Grained Hornfels/ Tuff?

- Abundant k-spar phenocrysts, fine grained
- Py microveins with bleached, k-spar poor envelopes.
- No mg or cb.

*cut fg matrix w phenocrysts, highly silicified
 prob similar to 48450, 50500N*

Intrusive
 RS112 400M EFVV GS HFX QZV2PYV) KFF)CLP
 REMARKS: Near contact with intrusive

Rock Name: Hornfels Tuff *fg green tuff similar to and. by road. v. boring, minor xcutting qz & fractures*
 - Qz veined in areas, heavily chloritized

- Similar to KME-4 , plagioclase phenocrysts, sub angular
- Fine k-spar matrix, qz phenocrysts, biotite.
- Minor rusty qz vein with associated py and k-spar.
- Fine disseminated pyrite

KME07 50125 48745 SBOC EF GS DIX PYD)MGD+
 REMARKS: Forms small cliff on edge of swamp
 Rock Name: Plagioclase Hornblend Diorite *cut: possible gabbro/diorite
 Plag-hbl-bi
 Some chloritization*

- Light grey, salt and pepper look, fresh
- HBLD/BI, 20%; PLAGIOCLASE, 30% Phenocrysts
- Some mafic concentrations as veins, py and mg disseminated throughout.

KME01 50200 48500 FLOT FO GS HFX PYD+MGV)PYV)CLP=KFF
 KFF

REMARKS: Taken from old drill road
 Rock Name: Fragmental porphyritic Tuff

- Obvious intrusive and hornfels? fragments in k-spar phenocryst rich matrix.
- Py and CP? disseminated throughout, py as microveins.
- Matrix chloritic, some bleaching around qz - mg - py veins.
- slight platy foliation
- k-spar pervasive, in fractures, and crystals around qz - mg - py veins
- no cb

KME04 51020 48395 OTCR 3A PPEF GS HFX KFF)
 REMARKS: Taken above L484E, 100 M above trench.
 Rock Name: Porphyritic Tuff? Hornfels *Lab - add chlorite along fractures unit 2?
 no fragments, no mag*

- Dark grey matrix with euhedral plagioclase broken phenocrysts
- Phenocrysts 10%, no visible sulphides.
- K-spar along brittle fracture planes.

KME03 50900 48450 SBOC EFMX GS HFX PYD. KFF?
 REMARKS: From up rooted tree
 Rock Name: Fine Grained Tuff/Sediment? Hornfels

- Rounded cherty cloudy qz fragments
- Close to intrusive dyke.

KME02 50880 48475 SBOC PP GS QMX PYD.MGD)
 REMARKS: Taken from up roote tree.
 Rock Name: Quartz Monzonite

- Rock same as 48415E, 50820N?
- Vesicular type weathering, bi/hbld up to 15%
- Probable north - south trending dyke.
- Modal qz and k-spar, clay altered pyritic zones have little k-spar.
- May be causing limestone massive sulphide alteration.

KME05 50650 48685 SBOC BD GS TFX PYD.
 REMARKS: Along ridge in swamp, may be in till.
 Rock Name: Tuffaceous Flow?

- Obvious qz and k-spar fragments and elongate shards?
- May be andesitic flow, some alignment of grains
- Non magnetic, k-spar as phenocrysts or granoblasts?

CS501 50760 N 48380 TRCH 502YU GS 30MX8SI2PYV=CP?? MNQ= LI
 P

Lab 51010 48045 OTCR EMGNSH 14890 GS HFX PYD= KFQ1CL
REMARKS: In uprooted tree
Rock Name: Gneissic hornfels? Tuff?

- Surface is irregular, gneissic, strike 148/subvert
- Chloritic alteration pervasive with SI and patchy K-spar almost granoblastic.
- Py anhedral, silvery, may have sericite.

RS112 400M OTCR PPEM GS QMX MGD+
REMARKS: Outcrop on reconnaissance line
Rock Name: Biotite Plagioclase Quartz? Monzonite *cut: looks fresh but pyrox*

- Fresh, some linear alignment of crystals
 - K-spar in ground mass, phenocrysts euhedral.
 - Similar to quartz monzonite on L484E? *some py, mg.*
- qz are euhedral but shattered inside
no fabric
fg matrix*

50000 49870 OTCR 103GAAM JT06485N GS ANX EP
REMARKS: Outcrop close to road *Lab: Unit 6 some qz-mg-ep veins*
Rock Name: (Amygdaloidal) Andesite Flow *ep in veins & in throughout*

- Andesite-dacite matrix composition
- Joint pattern @ 064/85n and unknown
- weathered surface has positive white spots in green recessive matrix. Qz amygdules.
- Epidote and cb are in and around fragments and amygdules
- Fragments include argillite, qz, and qz - k-spar intrusive.
- No primary k-spar.

50000 49960 OTCR
REMARKS: Same rock as above
Rock Name: Andesite Flow

- Epidote and carbonate alteration
- Lacks amygdules
- No sample taken.

50000 50630 OTCR 30 A PP F0020 GS PPX HSD)PYD)
REMARKS: Boulder? on topo high, flanks of mag high, some cut logs
Rock Name: Intrusive, rusted

- Rotting sample, very rusty
- Feldspar phenocrysts, some micas.
- Black sulphide- specular hematite?

Lab
1106a 50460 48477 FLOT EMVV GS HFX PYD= CLP=SI?L
I SED=KFQ

REMARKS: Just off of road
Rock Name: Altered Hornfelsed Tuff

- Chloritic, sericitic, rusty qz patches and bands
- Patches and veins irregular, no trend
- Sulphides throughout, cannot tell if cp present.

1106B 50460 48459 FLOT EMGB GS HFX PYD=PYF? KF? L
I *cut: mica (bi) plag fragments, intense kf altm. Similar to 1106a.*
REMARKS: Along road
Rock Name: Altered Hornfelsed Tuff (Fragmental) *50260, 48490*

- Weathered surface indicates round elongate fragments and some intrusive fragments
- Sulphides throughout, some on fracture surfaces.
- High k-f content in matrix

- intrusive fragment is gd? little k-spar, some bi.

1106C 50460 48459 FLOT 7GABXSK GS PYD=PYF? KFP5QVV
REMARKS: Float along road
Rock Name: Silicified Tuff
cut: pervasive k-spar alteration? obliterated everything very hard fragment? of purplish bi-py - similar to 50120^N, 48690^E py 5% fracture controlled

- Silicified, abundant k-spar in matrix with crosscutting qv.
- Sulphides anhedral, small, fracture controlled, patchy
- Cloudy qz veins with cloudy boundaries with matrix.

1106D 50500 48450 SBOC 3G EM VV GS HFX PYD= CLQ=SIQL
REMARKS: Along road, may be float
Rock Name: Altered Tuff, Hornfelsed
*cut: silicified, had polylitic tuff KFO2
diss py, some kf? assoc w mg-qz veins
yellow stain.*

- Highly chlorotic, pervasive and in veins
- White qz envelopes, patchy, granular texture.
- Rusty, silicified, disseminated py, minor mg with veins.
- K-spar primary or secondary?
- Py fracture controlled as well.

1106F 50650 48475 OTCR? EFMX GS HFX KFF.
REMARKS: Along Road, Float
Rock Name: Fine grained Hornfels/Sediment?

- Dark grey, fine grained rock, sediment?
- Matrix purplish with vague green chloritic patches
- Minor k-spar on fracture surfaces
- Similar to RS112 @ 400M.

1106E 50120 48690 OTCR? SHMX GS HFX PYD= KFO)QZV
REMARKS: Close to diorite in swamp
Rock Name: Schistose Hornfels/ Tuff?
*cut: possible same rock w intro of bi-py along fractures
1. fg rock with intro of bi/py some poss int. frag. etc*

- Contact between schistose and silica rich rock.
- May be proximal genetically to diorite?
- Both rocks have disseminated py, possibly cp?
- K-spar not so abundant as other rocks in area but present as phenocrysts? or granoblasts?.

50260 48490 FLOT EMVV GS HFX PYD? KFP5QZVC
LV
REMARKS: Along drill road
Rock Name: Altered Hornfelsed Tuff
*cut pervasive kf of plg tuff?
Some fragments, py diss in matrix*

- Chlorite - quartz in larger veins, abundant smaller quartz stockwork.
- K-spar throughout rock, may be primary.
- No mg or cb.
- Similar to 1106A @ 48477E, 50460N