Mylonitic bio-augen gneiss

GCY 871 N70E 50 SE on mylonitic foliation, med coarse grained proto mylonite - bio-augen gn

GCY 872 Massive cg bio granodiorite, black and white - Foliation is non penetrative? Fracture cleavage

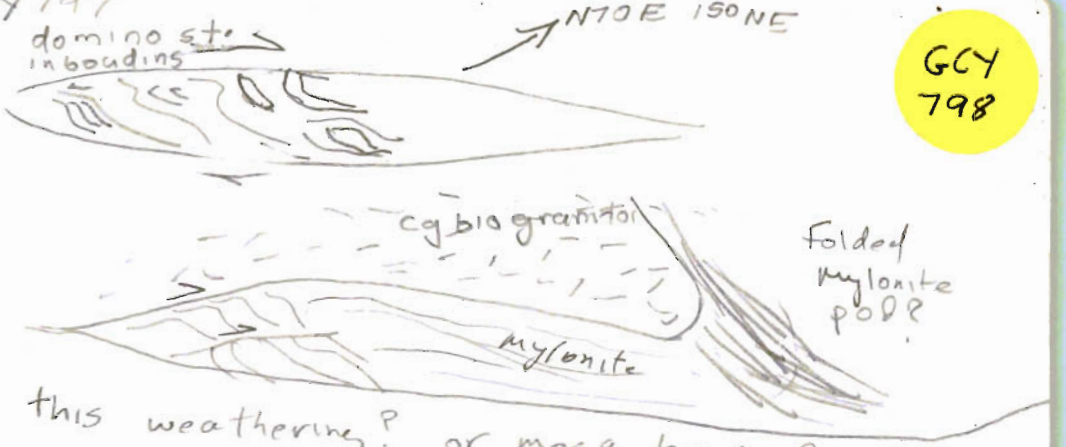
GCY 873 augen gneiss N75E 35SE strong mineral lineation down dip 325 E @30° 1st Feld phenocrysts on cleavage

GCY 874 very mylonitic greenish gray porphyroclastic schist saprolite

GCY 875 Xenolith or boudin of Fine grained amp. strung out along mylonitic foliation

GCY 876 qtz pods 1-3' long in phyllonite zone

GCY 797



is this weathering? or mega boudin?

Looking east in Murray Gap

dike

GCY 798 7' basalt dike in coarse blk and white bio granitoid. chilled margins, irregular contacts N30E? vert? M.I.C. NEFF ... SE

GCY 4411 Outcrops of medium granular salmon pink
Grayish Pink .5R8/2 to pale yellowish orange 10YR 8/6
very massive, blocky jointed granulite NO obvious
foliation

GCY 471 Outcrops of Dark Greenish Gray
to Greenish black augen gneiss w/ large (1")
white feldspar augen strung out and fractur
on foliation N50W 48SW, grnish mica, dk gy
greasy qtz and sparkling mg or ilm p. blasts
130 80

GCY 473 Outcrops of darke greenish gray
to dark greenish yellow w/ pink orthoclase feldspar
porphyroclasts medium to coarse (4pto 1" feld
pbs. Perusaive myl fol + brittle fract. N45W 60 SW
135 60

BEY 711 N55E 55SE coarse Mylonitic gneiss feldspar augen have pressure shadow wings indicate compression rock is dusky yelowish green to grayish olive green and has distinct biotite segregations or schistose layers that are contorted into intra Folial Folds which are compressional up to NW

BCY 712 N55E 45 green phyllonite in creek, augen gneiss across powerline to SW

BCY474 Just below 2nd cabin on SE side of ck dk grnis gry and pink granitic or granulitic gneiss lacks well developed gneissic banding of overlying bio gneiss, looks more plutonic with coarse pink feldspar segregations at 473

GCY 1-6-11 oc red and yellow Fome Mush [illegible]

GCY 1-6-12 yellow brown sil. br. Float at break in Slope

GCY 1-6-13 large bldrs yellow brown silicified breccia white qtzite bldrs across street Fine ss gravel sandy soil in bank at turnaround

GCY 1-6-15 sil breccia bldrs in drainage yellow claysh sap in cut

GCY 1-6-16 silicified breccia in saddle (back yard)

GCY 1-6-17 broken qtzite bldrs Shale chips on bank are Rome

GCY 18, 19 silceous breccia blocks and cobbles

GCY 1-6-20 silceous breccia qtzite Float

GCY 1-6-21 thin beddeds qtzite ocs in bank rough pitted mass ss bldrs in Front yard

GCY 1-6-19 bX6X4' bldr of gray dolomite in hairpin turn probably not moved Fur (shady

GCY 2412 LIMONITE SPL FROM PIT EL 1450 below Chestnut Ridge

GCY 2413 qtzite breccia bldrs Not ore, mining stoped to east

GCY 2414 Fe red soil, breccia Float on Chestnut Ridge Loop trail. El 1520 300 x 200 x 40' pit below Flushed same buck and doe as yesterday he snorts a lot

GCY 2415 on top of chest ridge Fe Breccia Float and soil to el then fractured and qtz Filled coarse ss bldrs (Unicoi to top NO OC NO Geomorph Form looks like erratics

GCY 2416 [illegible] Float on hill top

GCY 2417 Fine grained scolithus bearing qtzite Float - Geomorph indicates thin ledges, gently dipping resulting in bench

GCY 971 EW 52 S Foliated bio granite

972 WRAY FAMILY CEM

973 stone pile above spring med grained foliated bio granit gneiss, small purple qtz intergrown with Feldspar

GCY 974 - Stone pile on nose of ridge contains med grained granite gneiss (leuco) resembles Bassett

GCY except for purple qtz blebs possible pyx relics along strongly defined granulito layering

GCY 951 large granite outcrop in cove, flushed 8 deer

GCY 952 N45E 32SE Lin 580E 15 med grained Cren to medium gray biotite granite gneiss

GCY 953 coarse bio protomylonite - bio granofels typical " less sheared Lovingston.

GCY 944 E W 80 N cleavage in fine grain
mylonite on ridge crest
GCY 945 med coarse hbl/pyx granofels bldrs
down hill from Mylonite/protomylonite - all bio?
GCY 955 el 1280 10' dia bldrs in place
rude Fol N30E 70SE joints ~ 10' spacing
N20W 70 SW N70E 80 NW
GCY 893 Fine grained pyx? granulite Float on Cat Gant
GCY 864 coarse green metagabbro bldr
GCY 865 Coarse granite (pink, white) bldrs on hi
GCY 866 dark green chl/talc/amp granofels w/qtz eyes
and ocherous masses. Coarse metagabbro bldrs on slope

GCY 176 large maroon mdst ledge EW 86 S, highly cleaved

GCY 177

GCY 178 N80W 5 NE crossing synclinal axis red and olive shale then dip rolls to S again

GCY179 N75W 35 SW sup of laminated dolomite mudrock or lam dolomite - yellow ocher clay

JAN 18, 1995

GCY 121 red sltsn and sh OCS N35E 52 NW gray carbonate across rd

includes a few feet of sheared medium gray algal laminated limestone overlain by lite gray tp brn laminated, platy dolomite ~ 20' carb total

CY 111 small spring across from NSE 55 SE yellow wea ~ OC, 100' red sh/mdstn exposed in cut to SE

CY 112 N80E 75SE yellow, olive shale in cuts all stores not houses as shown on base map

CY 113 N80E 54 SE 2' thk dolomite, grn sh flt

CY 114 N45W 65 NE massive crinkly laminated dk gry fine dolomite

CY 115 abt 1 acre leaf landfill

1-18-95 N45E 35 SE olive shale in road bed

CY 122 burrowed grn sh in stream, red bed above

GCY 238

Slickensided joints N50E 78 SE [illegible]

10° SW highly [illegible] surf

Joints N80E 68 NW, N[illegible] 65 NW massive

ledge dips ~ 10 - 15° to south

GCY 2310 N45E 50 SE

granite or proto-mylonite gneiss

GCY 341 dia bldrs at roadside and along road in Cem, deep red soil.

GCY 256 thin ripple bedded qtzite ledge (mass)
N 35E 25 SE in road 5 - 10 ton blocks in
Woods above hollow - poss hazard
GCY 257 Fg qtz ss nearly in place, brecciated
ed and black clay sh resid?
GCY 258 N50W 20 SW? steep joints at N10W vert
N40W 85 NE, EW 75° N mass fg - mg
qtzite
GCY 261 75m x 10m leeps doline .30 x 10m
doline on NW side N45W 10 NE Ledge in doline
GCY 239 massive qtzite ldges N65E 25 SW? Fold nose?

GCY 892 mod metagab or diorite in ditch

GCY 904 N85W 75 NE coarse biotite granite — mylonite. (Lovingston) or protomylonite

GCY 832 el 1480 b on road round lovingston charnokite? bldr

GCY 833 N20E 65 SE blk bio gn in road at edge of row for powerline

GCY 834 2' dia round bldrs of rusty, pitted, coarse-green Charnokite with 3/4" Feldspar, hypidiomorphic granular text. Clots of mafics

GCY 835 el 1700 b (Probably 1600) large bldr field of coarse green hbl (pgx) granodiorite

GCY 836 el 1850 b large uralitic phenocrysts up 1"

CY 837 spl from outcrop just west of powerline
n road at el 1850 hbd (uralite) diorite (granodiorite)

CY 838 el 2080, just above break in slope
large Foliated ledges of black and white (bio)
protomylonite (mylonitic gneiss) N55-60E 60-70° } 2 meas
CY 839 el 2040 on ridge road 3' dia
rounded granodiorite blders light colored med Fg gran
just up hill, then sheared bio granitoids

CY 8310 el 1940 6' dia chorn blder road switchback

CY 8311 el 1760 oc cg weath granodiorite green
amp or pyx phenocrysts

CY 8312 on hill karsty, then blders of vein qtz
orange pink soils, some bio gn float. Chestnut logs some
young trees

CY 865 N25E 75SE EW 75SE Sap of myl bio gran

and along stream

GCY 867 pink gran saprolite along road east of powerline green chl/qtz veins, and white soapy feld or steatite veins in red sap west of power line

GCY 868 N80E 70SE bio gneiss ledge leucogran as at house to NW appears interlayered — bio gneiss possibly a roof pendant

GCY 869 spl from bldr E of powerline coarse hornblende diorite

GCY 894 red micaceous soil no bldrs, bgn sap?

GCY 895 red clay, milky qtz chips — gab resid?

GCY 852 el 1630 ft on spur, fine grained pink leuco granitoid, prob. hbd phenocrysts — lines up with OC on Oteys drive

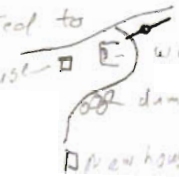
CY853 N45E 62SE LOVINGSTON PROTOMYLONITE
black and white biotite granitoid with broken Feld porphyroclasts up to 1" dia

CY881 massive ledge of light gy - pnk grgn
EW 75S joint or Foliation thin qtz veins en that direction as well

CY 854 N 35-45E 70SE green mylonite
~ 50 75' wide

March 8 1955

CY 971 abandoned chlorite/amp schist quarry, quarry flooded and under residential development - dark grn chl
with qtz pods, pos rel pyr N50E 52SE ~50' highwall
qtz may be related to same hydrothermal event as
chloritization



GCY 5517 el 1420 b below (50') break in slope
Ferruginous ss float
GCY 5518 el 14506 N45W 35 SW yellow phyl
saprolite coarse qtz ss on slope (1495)
above N70E 45 SE multiply cleaved
dk gry - tan weathered phyll to 2nd no

GCY 5510
overturned base of qtzite N70E 30SE
Contact between qtzite and phyllite,
ss 50g. Phyllite on slope appears to have been m
GCY 5511 20' x 10' - 15' deep mine pit in Ferrugino
Ferruginous bed ~ 10' above quartz ss bed
At top of fold on South side of
gorge cut off by fault in North side
N70E 20 SE
GCY 5512 another cut in phyllite, thin
ss layer N65E 15 SE
GCY 5513 N60E 15 E 23.' ore bed in French
uphill 8 x 50' ore stacked beside pit -
Never shipped 5513 ADIT IN Drainage 50' above

GCY 743 light gray salt and pepper granulite layer N40E 50S

GCY 744 N70W 24SW very pale orange coarse leucocratic granitoid, then screen of bio gneiss

GCY 745 v coarse black and white to pink Foliat granite N55E 40-45SE

GCY 746 coarse black and white granitic (bio) gneiss ~ intermediate between "Lovingston and leuco gran

GCY 747 Layered granulite, lite and darke banded hbd or pyx qtz feld -meta volc seq?

BMT 963 medium grained mafic granofels - actinolite/aralite biotite (brown carbonate) qtz? rock

CY475 photos of dark olive grn and white porphyroblasic granulite with 2-3" feldspars that are rounded by rotation rude compositional bands or oriented porphyroblasts N45 W 80SW, Qtz vein ↓↑ with sinstral kink trends NS dips 70-80E

CY 753 N45W 75 SW black and white banded
45 75
augen gneiss with feldspathic segregations

CY 724 N55W 75SW Fishscale schist crenulations
135 75
plunge 20°SE in direction of transport

Y 841 fresh b+w med-cg porph bio granitoid. "Lovingston"

Y741 coarse bio gneiss N50E 65 SE, b+w w feld augen

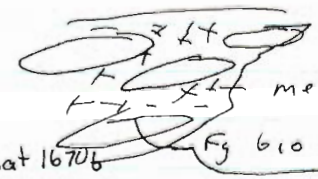
742 coarse pb bio grn or gn then med gr myl
neiss with S45E lineation (2 cleavage) 1/8" feld
porphyroclasts, not as much bio

GCY 691 Cg, grnish gray pyroxene granulite or charnok

GCY 671 Oc of saprolite exposes contact between Crowell Gap pluton and Flaser gneiss, pluton has very little Fabric gneiss highly sheared 1' dark selvage at contact

GCY 672 (9may) Whale back of Granite, cg bio var SPL GC 672A with pole grn epidote vein along shear zone N355 65S Large blds se of road with inclusions of Fine biotite gneiss

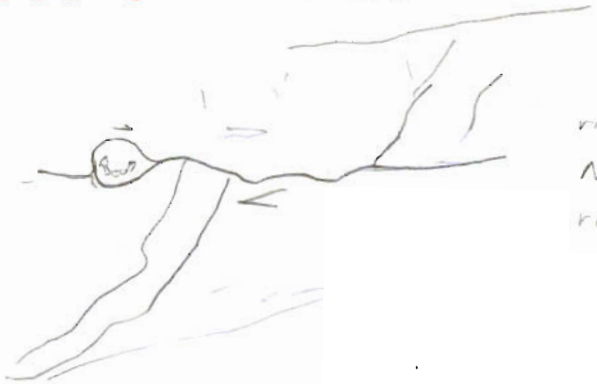
Spl Gcy 672 B



GCY 681 Basalt flt. at 1670b

GCY 682 Granite dike - aplitic on S E margin porphyritic in center -

C GCY 641 Granite with White Felsic veins



right lateral shear
N 90E 50 S.
regional foliation N50E

GCY 581 biotite granite augen gneiss
blue qtz biotite in down dip lineation
N 55E 57 SE Fol.
E 30E 50 SE

GCY 184 qtzite Float on hill above possibly infaut zone

GCY 161 red sh/ sap above storage units

GCY 175 red soil round qtzite cobbles

GCY 162 red sh or dol resiuum with Fe ore cobbles - old sink hole Fill on breached fold in shady?

Dec 15 1994

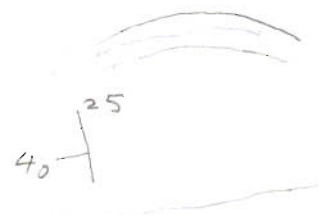
GCY 211 qtz chips in soil -

212 boulder of ferruginous siliceous breccia along trail 100' down hill From end of road el 1100 b - correction needed

213 massive lite gry Pinkish gray vitreous qtz arenite ledge - N 35E [illegible] - [illegible] hills N40E 80NW

NS 72°E

ome curved surfaces [illegible]



N 25E 40SE

Y
31 Massive red sltsh/sh N 60E 35E

Y 1-6-21 N65E 40 SE Thk - Mod
edded .5 - 1.5' gray, brn
tained [illegible] - [illegible] fractured in

GCY 277 Rockydale Contd

Moderate to
steep dip to NW

south east port of quarry is gently
southeast dipping. North west wall
contains steep kinked zones with
subhorizontal slickensides ~ surface N 70 W
5° SW photo of steep knk band
above thrus
behind NW wall
Very deep posible
or

David says
shady drops
rotation on thrust
Flower structure associated
with strike slip Faulting

MT 632 chilhowee shale and siltstone clear
N 50 W 80 SW N 30 W 72 SW qtz blks in hollow
to NE,

MT 633 at end of Pondarosa. Coarse pb
granulite in bank E-W 48°N S&D on along
pbs F

GCY 231' [illegible] bed

F.

GCY 2312 N60E 55NW oc of yellow ocher weather
shale in church parking lot cut large block?
of yellow orange weathered, white xline dolomite
[illegible] church [illegible] possible [illegible] of [illegible]
Bible Baptist Church, Granitic outcrops on hill behind
house on SE side of road

GCY 261 coarse porphyoblastic (porphyritic granite
saprolite yellow orange-white with rusty stks
GCY 262 Bldrs of coarse granitoid in wall, brn gran so
GCY 263 3' bldrs on slopes = rock roll hazard in
seismic epizode. Some 30' above street
264 Car size granite bldr with Feld pbs ~2" long allinged N55W 40 S

GCY 265 Fine granular (granulite?) saprolite in cut for steps from school to playgrounds

GCY Coarse porphyroblastic gran bldrs on nill side possibly layers of non porph below to NW

-CY 2510 coarse pebbly ss bldrs on steep slope - rockfall hazard

CY2511 el 1560, cg, pbly ledge. N45E 30NW?? beds on geomorph

CY 289 N 20W 20NE Pebbly ss Ledge or indidivual blocks on d.p slope

CY 2810 N 20W 25 on top of coarse ss ledge in road embankment

CY2811 el 1380b spring emerges from Qtzite blocks, at break in slope = Shady? prospect pit in gravel below

CY2314 deep red st[illegible] [illegible] [illegible] [illegible] [illegible]
MNO in [illegible]

CY 2815 2' blocks along slope look[illegible] [illegible] [illegible] [illegible]

CY2316 huge blocks ledge appear[illegible] [illegible] [illegible] top [illegible] SE slope

CY 217 6' dia sink. beneath qtzite ledge.

12 Jan 1998

GCY 5218 at head of chute filled with < bldrs and trees From last ice storm el 1740 N 25E 45 NW coarse white pebble ledge

GCY 5219 el 1880 massive 20' ledge pbly white qtzi. N 25-30 E 65°? NW prominant joint surface that bounds qtzite ledges - NO stratification visible just cross fracture fills or burrow streaks roughly ⊥ to joint face above

GCY52-20 el 1640 6 backhoe pits on gentle top Soil consists of about 2' yellow orange sandy stony silt then deep red sticky silty clay with rounded pebbles 3 holes out of 6 have an impermeable clay layer and are full of water to top of red clay

:Y 5221 el 1480 6 at edge of Flat spur pebbly qtz ss ledge

:Y 535 dirty, sheared pebbly qtz ss ledge N20E 65 SE geomorph? el 12906

:Y 536 N20E 68°SE 10' thick qtz ss ledge

:Y 537 N70W 60°NE Fracture cleavage delineated by qtz lenses and chlorite fish in granite — coorse protomylonitic prominant joint sets N55W 75 NE, N55E 80 NW, N45E 78 SE

Y538 OC in Front of brick house N10W 65 NE Fault surface slicks plunge 20 SE 300' up hill bldrs of med gr aplitic or micro granite dike rock with shiny mica ilmenite or graphite phenacrysts -

Y539 OC in bank below cemetary of med grgran gneon granulite probably same as 8 - possible felsic intrusive ath base of unicoi ?

GCY 5314 el 1030 in stream bed Cg ~~granitoid~~ spheroidal SS, c
N65E 35 SE

GCY5315 el at powerline N 40W 35 SW Cg mass lit
SS

GCY 613 house size bldrs of coarse porph gran wher
stream cuts down

614 N75E 80 SE med to coarse layered granulite in
stream layering is pink feldspar rich bands
Fract cleavage N45E 45SE

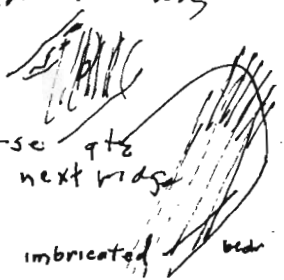
GCY 371 qtz pbl cgl, drt mtx N60E 30SW plung
-basal aniquoc - to SW on hill are bldrs (Oc?)
and deep residual soils of v coarse porphyroblast
granite gneiss

augen up to 3" grn mtx abdt
garnet + biotite

:Y 5310 oc of coarse porphyroblastic granite gneiss
in road bank
Jan 1995 GCY 562 ② N45E 65 SE cleavage ra
an - 6mm weathered grey sericite phyllite
GCY 5311 large pavement outcrop on nose N 75E - 15°-20°
5E intensely sheared pebble conglomerate beds
quartz schists"
CY 5312 N 70E 70 NW prom joint direction
ppears to bound oc clear N45E 45 SE
intensly sheared (protomylonitic) unicoi qtz
s GCY 5313 el 11306' 6' bldrs of coarse porph gran
gn
Y 612 el 1020 in holler 306' from Field N60W 50 NE SW
arse lithic ss, massive beds -

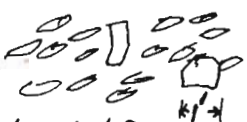
GCY 533 med - thn bded gray, purpulish dusk red and green slt sn and md sn with ~~gentle~~ moderate SE dip cle N 25W 62 cleavage dips ~~gentler~~ steeper than beds

burrow beds typical of lower unicoi



GCY 534 N 20E 60-80 SE massive coarse qtz lithic pbl ss on ridge, similar beds on next ridge

GCY 5216



borrow pit in imbricated gravel deposits

debris flow on dissected fan

GCY 5217 at el 1600 above highly dissected Fan - Some extremely steep topography (deep gullied ravines and 5' rounded qtz cte bldrs rolling in valleys - must reflect a very intense storm or storm season

GCY 291 oc tn bded ss, 5'+ a thk ss US 50 E cleavage
dips ~30 E indicating overturning

Jan 1995
GCY 292 coarse porph gran gneiss bldrs on
both sides of road
GCY 293 coarse porph gneissic granitoid bldrs
some foliated gran gneiss transported?
CY 531 Philpott Mobil Park
CY 532 N 10-20W 55 SE beds?? cleav ~35 SE
coarse lithic ss with blue gray and white qtz granules
greenish feldspar pebbles, massive "dumped in aspect)
granite bldrs to E along Raven Rock Rd. Possible
unconformable contact

1/26/94

GCC 1-8-A White qtzite on top, red-t black stained qtzite selicious breccia on slopes

1/27/94

BMT 362 beside Mai Tai Restaurant W 20F 25 SE massive red, yellow and greenish yellow sh and sltsn units of Rome

BMT 363 old sinkhole developed on rusty rome dol that outcrops near corner of 221 and 419

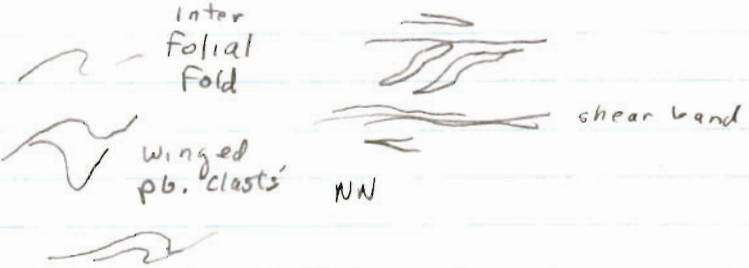
GCY 141 Watercress in stream, large blocks ~20' in yard 1060 Crawford Road

GCY 115 excellent cuts in Rome at Olympic Park Swim Club/K of C park bedding Urs Cleavage well exposed big carbonate block near entrance

CY 1 26 lt gray thin laminated dolomite. Property
owner above says iron ore in soil above and
that old golf course below was extensively mined

CY 1-6-23 1/25/94 According to David Willis CEO
Rockydale quarries shady dolomite encounted at
8' behind wall Mart when rock cribbing was
enstalled.
CY17-11 Red clay shale residuum beneath colluvium in
stream botton

GCY 849. sketches of porphyroclasts in plane of linedtion



GCY 8410 wm Otays house, coarse band w granite, not much foliation (8411) ~white pegmatite in road at culvert

GCY 8412 N45E 85NW Foliation in bio
gran gn med grained gran sill above

-CY 8413 N75E 52 SE compositional banding (gneiss)
n bio augen gneiss

-CY 8414 70' wide feld-qtz dike in dk bgn
saprolite contact N45W 30 NE cleavage NS 10-15°E
dike is white, aphinitic

CY851 mylonitic gneiss N60E 35 SE med gr gn

CY861 amphibolite and fine grained grgn float
looks like Bassett gneiss - no amp found
just acherous sap!

CY862 course equigranular pink bio/amp granite
odules of norite or charnokite up hill -
CY 891 - course pink - lt gn gran - millstone ?

GCY 876 el 1750 1' d [illegible] granofels bldrs

GCY 935 N 60E 40 SE green chlorite schist in mud bank w/ qtz veins - button or mica fish structure deep red soils

GCY 961 [illegible] deep red soil N 55E 20 NW spidolo quartzite Float in soil

GCY 962 [illegible] granitic protomylonite or mylonite gneiss gray [illegible] field [illegible] 50-50 [illegible]

Mylonite [illegible]

Joints N 30W 52 SW N 45W 28 NE

1-2' spaced cleavage - soils are brown as opposed to re sig. contact?

GCY 963 leucocr[illegible]

pbs are up to [illegible] long [illegible] thick biotite [illegible] [illegible] blue qtz veins

some coarse gran layers

CY 875 N50E 48 SE coarse bio gneiss \ gran

in septic / drain field cuts ~ 18" below surf.

CY 882 ~ 1700 b gran (pink, cg equigranular

boulders and gneiss

CY 883 coarse green pyroxene granofels,

Pyroxene (Uralite?) laths weathered

in relief produces rough porous granofels

CY 884 coarse bio protomylonite N 75 E 57 SE

CY 886 rhyolite or rhyodacit blds, gry fg coars

feld + qtz, some biotite

CY 887 N65 E 65E Massive but Foliated bio

granodiorite great quarry site!

GCY411 white qtz arenite ledge form, structure not discernable, brown weathered ss below

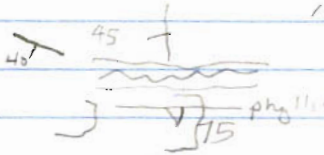
GCY412 brn qtz sandstone N60W 38SW overlaine by Fine grained, dense, cemented laminate white quartz arenite, some purple iron staining, brown bedding, red pebbles, Brown SS

GCY 414 brown SS [illegible]

GCY415 lt gy - brn qtz [illegible]

QCY457 lt gry paper thin cleavage phyllite N65E 55SE
looks like "Weverton" or candler

QCY458 slate phyllite quarries N45E 75 SE
cleavage at 90° to qtzite beds on NW side of
valley - possible fault zone? or tight fold. Phyllite
is medium gray with light
and dark streaks - volcanic?
or burrowed?



QCY459 oc in stream N70E 80 SE sheared cy
s, mylonitic foliation

CY4211 angular cobbles of impure quartzesandstone
no discernible ledge forms

GCY 442 June 21 1994

N70W 35 SW section of thk bded wh/gry SS 70 paces along SBL. EW 38s° at NEnd

GCY 443

N70W 45SW lt gy to wht cly or feld rich fine ss or sltsn in cut on SBL - (Med thn bded, impure ss facies)

GCY 444

N20W 50 SW OC of massive granulitic gneiss (leucocratic) - rude foliation. Phyllite at first cut west of bridge

423 June 21, 19[illegible]

te gray cly Ph!/sh ocs in NBL

Y 424

de area in lt grnish - gry - wh, fine ss - sltsh

ds may be detached, evidence of slump block

vement during Ice storms (Winter 93-44)

ds in root zone N80W 45 SW JNTS N10W 65 NE

85E 81 SE

4 425 Oc of Qtzite Mass/thn bded/Erwin? N60W 45SE

50' section, becoming thn bded to NE, w thn flgr

ipple bedded sltsns. Rock Fall Hazard Extreme

15 paces along road

Y 441 N85E 40SE Fg, gry, thk bded, ripply, spher.

oc DBL

GCT662 SE contact of Crowell Cap Platon mylonite

biogneiss – gray weathers to brown micaceous Qtp

N 65 E 85 SE

typical deep red shady soil up hill From this point forms a saddle

GCY 1710 yel and white weath sap yellow is shly White is vein-like gravels and red soil to south

Dec 25 '95

GCY 189 in valley just west of underpass - karst valley with internal drainage

GCY 1-8-90 coarse breccia, qtzite clsts green Shale chips in stream are rare

CY 154 storarge area qtzite blks on ridge
rome shale so SE shady? resid below
-6/95
-CY 1-9-22 old iron mine along Deerfield Lane (acc. G. W.
Photos of 3 pits upper pit faces hole 15
on H.H. Golf course which is built on
mine dump

CY 2-7-7 Rocky Dale Quarry Structure
½ hr in quarry with David Willis Owner
1-6/95 describes a N 45E trending thrst
that repetes 7/2 dol markers in Quarry
thrust has antithetic throw and dips

GCT 554 N60W 45-50 SW myl gn in
tream MN/Fe qtzite breccia blocks
n Flood plain

GCT 555 Limonitic qtzite breccia with
open vugs and qtz X/s nearly in place
mylonit ocs in drain 50' SW

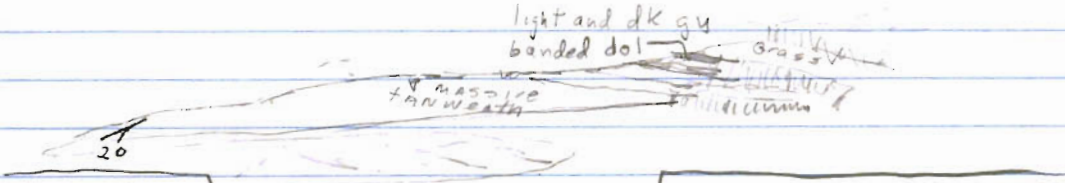
CT 543 Gray phyllite in soil pits and on private
oad qtz bldr at turn N70W 75 SW cleavage
n phyllite

CT 544 cg grnish gy granofels qtz + bio + fels
l muscovite pbs

11 - 30 - 94

GCY-461 on Buck Mtn N70E 80 NW coarse quartz aren
Weathered but hard bedding // Flattening of coarse
sand grains

GCY-273 sketch of Quarry from NE
end of Buck mtn. Bedding in Shady N45E 12



Crossbedded qtz arenite in trail just above saddl
N70E 50 NW on cross bed
N60E vert on main bedding

CY 438 apparently 2 ledges of qtz aren. crossing trail at N70E 70SE

CY 439 10' ledge crosses trail N80E 70SE prominant planer surface, not sure if it is bedding.

CY 462 massive qtz arenite bldrs as trail comes round corner a begins desent, qtz veins ∥ and at steep angle to bedding? N80E 82NW (guess)

CY 463 Trail crosses another line of boulders — No visible ledge form

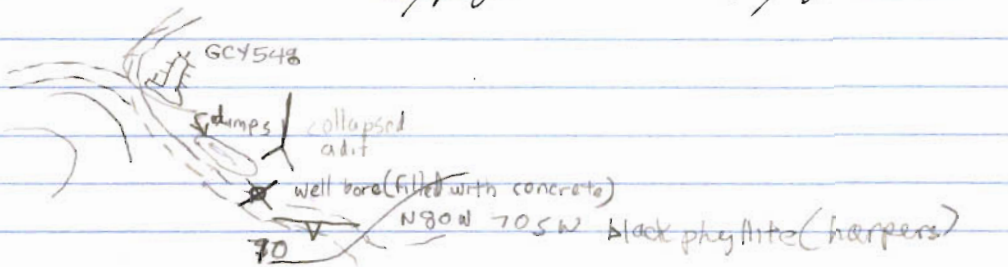
CY 545 Orange sandy residual soil with impurities

yers

GCY ~~546~~ gray phyllite or slate chips in orange-yellow sap or residual soil, minor qtz granules in top

GCY 547 N80E 70 NW Highly foliated sandy sap - impure micaceous ss in ditches at road intersection

GCY 548 N50W vert laminate gray siltstn — phyllite in deep ditch middle of road. Apparent prospect trenches in saddle Hematitic ss/phyllite on dumps / sp. GCY548



GCY 549 coarse, sheared white qtz arenite ledge
trends N 55W ~ 3-5' thick N50W 75 SW
thick
GCY5410 coarse pebbly ledge N70W 78SW goes
across spur cleavage surfaces N65W 60 SW
= OT Weverton/Unicoi ledge
GCY 5411 impure 2' thk unique ss N70W 64
GCY 464
N80W 68SW
outcrops above road
GCY465 N70W 60SW 15-20' qtzite
GCY466 N60W 25SW med bedded qtz arenite pos scolithus

GCY 922 municipal well cuttings are bio granitoid (blackand white, not green)

GCY 682 mylonite (schist) outcrops - brn to gray

GCY 8415 Coarse grnish gry pyroxene granodior bldrs highly sheared below

GCY 8416 lt grngry to b & w weathered granoblastic - coarse hypidiomorphic granular granodiorite,

GCY 8417 Medium grained greenish gray pyrx granulit Float in rock pile also coarser bio granofels

GCY 873 el 2150 med-cg granulite bldrs

GCY 874 NGOE 60SE Fg grn mylonite in road bank

March 7 1995 GCY 951

45E 80 SE Fine - medium grained bio granitic gneiss

CY 952 deep red soil overlies brown to

range granular, micaceous sap, massive

has schistose layers, pervasive mica foliation

CY 953 deep red soil qtz vein float

CY 911 equigranular bio/granofels weathered bldrs

unsheared Lovingsto

CY 921 N25E 65 NW joint / Fract clear

n mass. cg grnish gry bio granodiorite (charn

CY 912 coarse biogranodiorite, massive 2' jnt p

N45W 75 SW deep red soil

N35E 70 SE

Y913 N45E 70 SE coarse bio granitoid, protomylonitic

oliation — = Lovingston

Dec 7, 1994

GCY 4317 2' thick yellowish weathered SS in phyllite on road embankment small landslide on sholder N 5E 10 NW

GCY 4318, very similary SS broken outcrops N 30E 10SE, tan phyllite/sh very broken

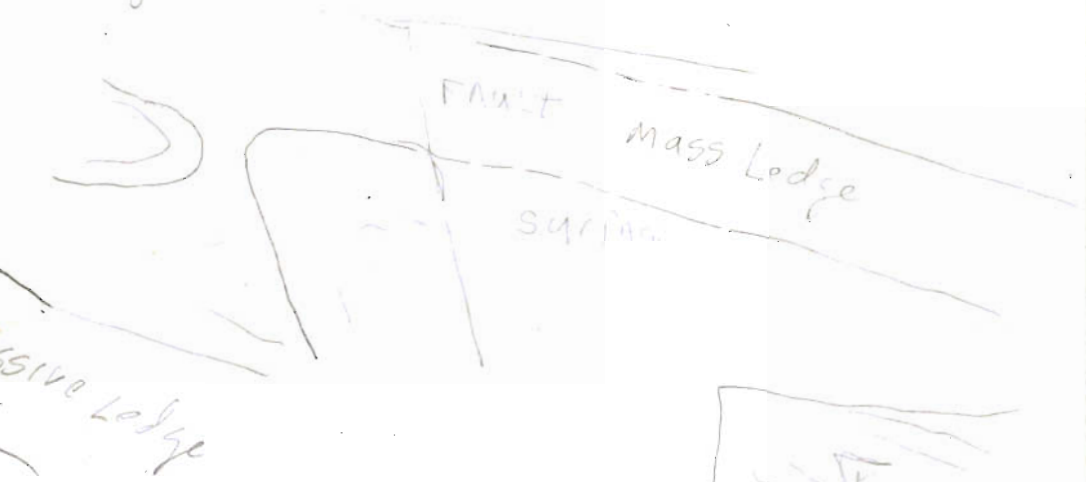
GCY 511 N70W 15 SW mass bedded reg jointed lite grnish gry to white pebbly/cg quartzite.

GCY 512 N50W 10 mass - thk bedded orange - yellow SS beds N 50 W 10 SW cross bedding? lake RSU

GCY 513 N75E 55 SE Foliation on phyllite in side ditch across from tennis court in Clearbrook park.

CY 559 Fold n [illegible] arms Fr

Facility 2 [illegible]



N75E 18 SE A P

S10W 15 SW hinge PHOTO 12/7/94

IRVING GRID

A B C D E F G H I

1
2
3
4
5
6
7
8
9
10
11
12

3-1-95

GCY4515 N55E 30SE S20E 20SE lineation on myl Fol.
lt olive dk olive grn qtz kspar plagioclase
muscovite biotite gneiss, (Possibly sheared
granulite rather than coarse lovingston granite
gneiss.

3-1--

GCY 136 N65E 10 SE red sh GCY 137 red sh N10W 25 SW

GCY 2221 just below abandoned reservoir oak tr
turned over in ice storm has yellow clay sh in roc
some mass granular clay - saprolite qtz cobbles
bldrs cover slopes

GCY 2222 ~75' el above XL spring outcrop of gray
to white fine xline dolomite N75E 18 SE pres sol clear

N75E 68 SE, Joints N20E vert E-W vert

GCY 2223 N50E 34 SE just above Spring

GCY 176 N30E 70 SE gry clay sh saprolite
in bank - Chilnowee

GCY 177 N70W 60 SW jointed SS saprolite in
Basement cut for new model condo

GCY 188 active slump w qtz bldrs at top sh sap at road.

GCY 123 dolomite N70E N80E 15° -10° SE
in S fream - small spring, highly poluted or
mineralized (green grass next to it is
piped into creek
GCY 124 ls/dol unit crops out on spur of hill
2 springs (one stone box) other bubbling up out of
stream bed. These are directly related to
location of lime/dol unit in rome
GCY 132 N20E 24 NW med bded sltsn in rome
GCY 133 N20W 20 SW orange-yellow weathered,
massive dolomitic beds with thn shly partings
GCY 134 massive olive and green cly sh on
slt sns in stream bottom GCY 135
massive-thk-bedded gnr cly-dolomite micrite somes. pink

GCY 419 N45W 30SW laminated dol resid horizontal alluvial contact 10' below in borrow pit, some MN clay seams

GCY 171 Large block in yd — 55 GCY 172 N20E 45 gray shale with thn qtzite layers larger qtzite bldrs on slopes — 173 maroon shale on slopes

GCY 174 deep red brn resiual soil developed on brecciated clay shale with qtzite pebbles and cobbles highly eroded fan remnants? or deformed chilhowee? Mn-fe stains in veins, Area now a dump for trees mulch etc

GCY 175 3 trenches in silicified breccia some minerals spl GCY 175

CY 416 N80W 70SW thin bedded upper antietam ss qtzite
5h GCY 417 N65E 65SE oc bnding joint - No strat
fract vitreous qtzite 15-20' thk
Y 4410 N25W 65 SW V Cg lt gry protomylonitic
155 65 SW
ranitoid, blue qtz, relict pegmatoid texture.
orspen mtn?
Y 153 behind pearl Optics and windys —
ep yellowish brown soil developed on pinicks
fdk gry buvro mtted rome dol.
Y 217 above intersection at Starkey hill top
overed with fractured qtzite No definable
trata on road below N 50W 25 SW on ridge
CY 418 at el 1320 ∡ qtz ss soil becomes refelay

Hairpen turn in road N 30E/10° NW about 1

Coal truck worth of ore stacked

GCY5514 collapsed adit or pit ore stacked
N55E 14 SE

GCY5513 on Flagstaff Mtn N10E 45? massive
coarse grained quartzose ss ledge

GCY5514 EL 1400 b coarse qtz ss ledge
N 55 35 SE, Fractured // beddings and b

GCY5515 el 1350 b small 8 x 15' x 2'
prospect, Fe ss Flt

GCY5516 el. 1320 b Fe qtz ss Float good ~ 35% Fe
Coarse qtz sand grains

an 9 1995

-CY 255 on "Garden City Hill" angular blders or
Fg lt gy to wh qtz arenite subtle ledge forms
N35E 40 NW 2' brecciated qtzite beds

GCY 487 N 2530E 78 SE green pb mgl schist
& bn derived from granulites dk brn soil
feldspathic bands
GCY 488 N35E 40 SE, similar green mg/gr. down dip lineati
S 35E
GCY 811 coarse, leucocratic granulite with cl
of greenish black pyroxen, possible garent
biotite and gray greasy quartz. No penetrative
cleavage but has a granulitic layering
GCY812 dk greenish gry altered mafic
granulite - fine grained, highly brecciated epidote
albite - serp or amp rock - sericitized or hydro
alt zone ?

GCY 813 N50W 60SW coarse leucogranulite
with mafic segregation layering sp qtz feld bio sphene
or (brown-honey colored mafic) bio in "eyes" along grenville f

GCY 761 in quarry above Murray Gap stone is mylonitic to protomylonitic bio granitoid bio + feld p-clasts + qtz (rare mostly stringers) N45E 63 SE one block in quarry apparent mica schist xenolith very sharp contact stained as if mineralized Quarry about 60 – 70' deep 100 feet wide 200' long

GCY 485 N75E 29 SE dk grnish gy mylonite chl/bio schist with fractured feldspar pbs along mylonitic foliation S10E 35SE Lineation.

GCY 486 N45E 36 SE down dip lineation some green mylonite gneiss ok's very fresh in cut

GCY 1912 light gry - y/w gray silty clay soil looks leached, qtz rich

GCY 4319 box works breccia blocks in drive way gray and white clay sh residuum seems highly sheared - possible slip zone N 20W 25 SW more foliated shale above appears to be gray unit in Uniquá

GCY 4213 N 20E 45 NW Fractured quartzite with limonite (goerthite) breccia Filling - attitude is major fracture trend, not necessarily bedding

GCY 4214 N 45E 15 SE Weathered sh/ss (Uniquá?) Not sure about bedding - mast looks chaotic could all be massive sinkhole fill!

Y 181 on Flintlock Circle SR 1943 ridge top covered with
arse grained, massive boulders of quartz sandstone
eathered rough and brown with un and Fe stains
Let down Neverton - Unicoi?
Y 182 orange soil w/ qtzite gravels
Y 183 angular quartzite debris on surface
ood oc of dusky red and yellow ocher clay
shale N 70E 26 SE in drainage behind telephone
building
Y151 oc behind exxon rome gray sh/shly dol - could
45E 10 SE Folded and sheared zone
152 N70E 12 SE Rome behind Slate Hill Baptist
hurch
Y184 Dolomite Breccia w/ box works possibly zn mineral

GCY 283 sap of coarse SS N 10° - 15E 10-30°E looks like more uniquoi

GCY 284 N5E 75 SE cg SS ledge - pebbly in part.

GCY 285 N40W 60 NE Massive bedded pebbly quartz arn el 1950 b

GCY 286 FV 70E 40 SE Massive qtz SS bed below overlook. Strike and dip on Foliated surface with grooving tos N80W 35 SW Slicks S 55 E photos

GCY287 N 20E 65 SE 2' SS in phyllite

GCY 288 N20W 50 SW Mass ~ 20' ledge

Dec 9 '94

GCY 274 on horse trail soil boundry at base of slope. To NW is dusky red clay soil w/chert nodules to southeast yellow orange sandy soil with coarse SS cobbles and gravels

Y 5212 contd

indicated by heavy mineral bands N 55 SE
at base of pebbly quartz arenite ledge
below

Da SSn

Y 5213 Fine grag clay sn hardly cleaved
then pebbly ss beds, some almost purple sh
CY 5214 N 10W 35 SW pebbly ledge avg qtz [illegible]

Y 282 el 1560 coarse qtz ss blocks & boulds
CY 283 el 1600 N 10 E 30 SE thn bfed ss sh
bove ss below
Y 284

to this point (2000 b) at this loc. is a 2' white qtz arenite (vitreous) ledge (surrounded by corse pebbly float with no skolithus in site

GCY 528 el 2090 b coarse quartz arenite ledge NSE 55 SE, vitreous, cleaveage

GCY 529 pebbly ledges of quartz arenite NS vertical ? [illegible] of flattened pebbles ll bedding?

GCY 5210 el 1650 mylonite gneiss saprolite on road must be fill from borrow pits near Red Hill church

GCY 5211 N5W 65SW Fg thn bded y wbrn ss sap

GCY 5212 Road switch back at el 1500 b thin bedded laminated fine ss/sltsn sap N 20E 15 SE small right handed folds indicate rsu then OT to SE

ec 8 1994

CY 521 Ledge of coarse qtz pebble ss/cgl crosses road
ray thick bedded ss N30E 47SE
CY522 NS 10E thinbedded gray to dk gry silts
small folds cleavage say Right side up
CY523 coarse ss. ledge dips 30 SW N10W Strik
CY524 el 1460 b strong ledge form N10E 55E
n gray pebbly ss, massive bedded
CY525 el 1500 N5W 30NE laminate gry-dk gry
onstripe) fine ss scour channels x beds
ndicate SW Facing ↑
CY526 el 1600 V coarse pebbly SS bed
CY527 el 2000 b V coarse pebbly Float on slope

GCY 4 5 13

N90E 70SE bedding? in cg lithic qtz

N80E 37 SE Cleavage = overturned!

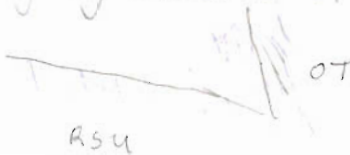
(13) arkosic sup N60E 70 SE

Sor

(14) sheared ss N 70E 55SE (drty ss)

(15) Highly cleaved drt ss N 60E 10 SE

RSU then USD



Dec 6, 1994

CY 481 gray-greenish gray mylonite ocs N80E
NW dip of Foliation rotates back to SE in
NW part of OC

CY 482 outcrop Just before RR bridge is siver gray
to reddish brown phyllite of chilhowee group

Y 4510 ocs of pebby chl musc schist/meta ss in
side drainage def. unique

Y 4511 Slope is pavement of coarse lithic qtz ss
N75W 45SW

Y483 Float and saprolite of sheared biogran

Cy484 Coarse Mylonitic granite N55E 40 SE
and OC in [illegible]

GCY 558 w/erin Spl of lineated migm...

foliation N75W 33S lineation S20E

Domino extension efect?

GCT 491 coarse layered granulite
some pyroxene, with deep red clays,
GCT 492 coarse augen gneiss with
augen up to 1" across, biotite mtx
GCT 481 equigranular med grained pyroxene
bearing granulite, hypidiomorphic granular texture
GCT 471 greenstone sill in mylonite gneiss
gs is ff ltgray-green, massive w blocky joint
N 75 W 35 SW, sharp contacts, w/ phyllonitic
zone on either side ~ 13 > 2.5' - 3' wide
CT 472 coarse lineated mylonite gneiss
phyllite or phyllonite

GCY 2210 EAST RIDGE - MILL MTN

Road level 1410 b residual soil Fig. qtz ss sh seq (upper Antetham) 150' N another ledge ~2' thk then orange red shady residuum another 125' ledge of white dol at el 1410 shows rsu Flexure

N45W 45 NE

N45W 60 SW OT

THIS BGCY 227

N70E 88 NW 20'

below road el 1390

Massive (burrowed?) dol

10 Dec (Pri

GCY 2211 N80E 7 NW qtzite ledge near top.

CY
2212 el 1480 N77E 12 SE strong ledge form
most obvious parting surface seems to be
bedding //

SCY 2213 el 1540 along water main (new)
excavation from here to sadle shows
fg impure ss/sh sequence at this point
massive qtzite ledge N 80W 10 NE

SCY 2214 el 1600 at location of (8) on
map ledge N 40W 20 NE

SCY 2215 el 1300 b 50 x 20 x 20 cut
exposes course fo cemented (very vo sude
SS - Harpers ? or breccia ?

10/24/90

Δ GCT 931 Sample #GCY 933

Mass, Porphyrytic Grenish Charnokite, 1+
Gy Feld (Orthoclase ?) up to 2" long - sp

10/26/90

GCT 932 Coarse charn merges into med fg
bio sap

GCT 933 coarse charnokite dike ? cutting
pyx granulite sap ? ?

GCT 934 [coarse] med grained granulite gneiss (Meso
Meta
saprolite with strong foliation

GCY 218 ACTIVE SLUMP in 30' embankment behind house on Cassell Ln. Material is all unconsol colluvium or residuum on sh/dol.

GCY 219 Red sh Bldr ~ 6 x 3 in yd on Rosilind

GCY 2110 Deep red clay - slt soil bench or terrace topo = shady? qtz bldrs from above

GCY 2111 very low grade siliceous iron ore block in sticky orange red clay soil

GCY 225 N50W 15 SW orange dolomitic mdsn - rome

GCY 226 Massive white dol. weathered dk gray on outside of outcrop - deep red clay soil, natural bench

227 N75E 65 NW white dol 1.5-2' tnt

228 N60E 25 SE 20' tk rsu qtzite (vitreous

229 N35E 17 NW Massive ~ 6' ledge of vitreous qtzite appears rsu

Weathered ss/sh sequence

CY 2418 spl of limonite From 50 x 75 x 15'
excavation above street. Qtzite breccia
Major joint bedding? N55E 65SE

CY 214 N20E 25 SE 2' qtzite ledge old talus slope
on bank above possible Rock slide hazard
CY 2419 N50E 80NW POSSIBLE OT CROSS BEDS
Ledge Form N80E 20 - 30 NW

Y 215 orange ocre [illegible] sinter/breccia
fault rock in embankment about street ~ 50 yds
Deep red soil and sil. breccia in bank at Cassellia. Basement

GCY 431

oc of thk bded mod cg qtz arenite

GCY 4312 at el 1620 near head of small hollow
Bedding? in massive vitreous qtz arenite ledge N50E18
cleavage dips 60 – 70

GCY 4313 at el Weathered coarse med qtz are
ledge some iron stained Float below

GCY 4314 at el 1640 b Massive blocks on gentle
slope

SCY 466

RIGHTSIDE UP SCOLITHUS / CLEAVAGE REFRACTION

SCY 4310 Mine dumps, trenches and collapsed adits, Coarse pebbly spec ore 1540 Top adit/pit 1460 adit tunnels collapsed

SCY 4210 outcrop
lite gray weathered phyllite N60E 70 SE N ore bed
SCY 4211 ledge of coarse gtz [illegible] Fracture cleavage N60E. 70SE
SCY 4311 outcrop, prospect pits of fe ss only 1-5% fe min [illegible] or [illegible]

GCY 981 deeply weathered gneissic saprolite, sweaty gray musc/bio with 2" felspar augen? qtz vein N 70 E 85 SE

GCY 982 N65E 52 SE coarse leucogranitic gneiss with 1' long phacoids of deep purple gray quartz, some graphic texture - this must be a very deformed pegmatite

GCY 983 N50E vert bio augen gch/gn - Feld pbs in schistose mtx

GCY 891 coarse charnokitic gr bldrs in deep orange

cy 899 Sheared med grained biotite granite or granitegn

CY 8910 bio sch/myl seams in augen or grgn

CY 888 new well next to Abshire cem is in grey bio granitegneiss.

CY 889 f-mg salt and pepper grgn bldrs

CY 692 coarse charnokite bldrs in deep orange soil

CY 693 soil color lightens to yellowish orange

pyx or amphibole. OC at 1720 N 60 E 30 SE
N 76 W 75 SW joints qtz rich zone
GCY 775 medium grained granite blders in ca²

GCY 781 mylonitic Foliation in gray bio augen gneiss saprolite N50E 30 SE massive grgn ocs along creek to SE
GCY 791 Spl of gray bio augen gn
GCY 792 50 vein quartz > highly sheared in phyllonite zone N 36 E 55 SE fract cleav in qtz N50E 37 SE in grnish gry phyllonite mica rich coarse granitoid on N end of OC

GCY 793 S25E 30 SE mineral (mica fish) along. on Seriate schist with brown 1mm pbs garn

7/1/95

CY771 el 1620 above Garst House oc of coarse bio gran gneiss N70W 65SW large rounded ledge most big bldrs in fau ane greenish "charnokite" from up above

CY772 el 1700 talus of coarse porphyritic "roses mill biotite granitoid

color index ~ 35 no large qtz

holds up spur

Y773 el 1860 massive outcrops of coarse biotite granodiorite N40E 10SE bio? Fol EW 48°S Fracture cleav

Y774 el 1800 oc med cg hypidiomorphic granular grnish gry – black and white bio granodiorite not a lot of qtz bio in clumps, looks like

GCY 158 A oc. of med gry micrite interbedded with yellow dolomite grn and rd shale ls 2-3' thk has a well developed solution channel open to surface in rubble on embankment N30E 65 SE on lam dol.

GCY 159 N 30 E 60 SE dark gry-bk x nc rom dolomite

Br

GCY 814 SBL ∧ N60W 73SW layering in leucogran
N75E 60SE. myl Foliation in gray mylon
- protomylonite gneiss on side of NBL
GCY 762 N70W 65SW myl fol in bio augen
gneiss pink feldspar augen surrounded by black
bio rich mylonitic mtx 1 clev - blk & White
some feld rich layers
GCY 763 Coarse pink granite sap and float -
Crowell Gap like material, massive hypidiomorphic
granular granite in SBL (sp' GCY 763) N60W.
N10W (steep) N50E ~ 60 NW joint sets.
GCY 842 SPL From center of cut is
coarse grained grenish - pinkish gray bio granite
GCY 843 coarse
GCY 844 coarse - pinkish orange, breaks up to small

GCY 846A coarse pegmatitic granitoid, blue qtz, Feld + green amp

846B similar only fresher, Unit is between Crowell Gap granite and Foliated Lovingston bio augen gneiss

GCY 847 V coarse bio augen gn/bio granitoid amoeboid blue qtz clots of mafic, index > 50% mafic (Lovingston) typical deep red clay soil

N-20-30E 20-30SE bio foliation, elongate porphyroclasts

GCY 848 coarse biotite granodiorite gneiss typ lovingston (mafic) with lt gry fine grained porphyry dike or sill (11 Foliation N 27E 25SE.

GCY 849 beautiful B and W augen gneiss fol N65E35SE lineation S 35E 16°SE

GCY 244 On Chestnut ridge trail, Blocks of white to light gray qtzite appear nearly in place along ridge N50W trend dip may be about 30° NE

GCY 245 at space 72 old pit in mineralized qtzite breccia, limonite-wad? pit trends N60W, 20' wide 20' deep x 150'

N50E 65 NW Some pebbly SS replaced by limonite. Some massive

GCY 426 Nov 30 94 N70E 50 SE qtzite bedding oc in trail, med gr heavily cleaved poor bedding definition poss cleavage

GCY 427 along Buck Mtn Nature trail ~ 25'
White, vitreous qtzite ledge - N55E 5.0 SE
massive bedded, Fractured w/ white qtz veins

GCY 428 at turn around on Buck Mtn Nature
trail massive qtzite on trail 200ft SW N55E
70 SE Foliation ~ // bedding? Sheared qtzite.
GCY 429 100' W of saddle on trail
N70E 75 SE Foliation (qtz grain flattening)
med to coarse quartz arenite
GCY 453 med bedded gry [illegible] ledge on trail
180E 65E [illegible] right side up

GCY 271 June 21, 1994

Highly Fractured qtzite blders in Sandy soil along horse trail

GCY 272 redish brn cly resid soil opposite "Gum Spring Overlook, el. 1445.

GCY 273 deep dusky rd cly soil, road shows subsidence in Fill area = shady dol Sink area.

GCY 241 ylw orang sandy soil, ss + phy Flat at Chestnut Ridge Trail Parking Lot Trail Loops around chilhowee qtzite ledges.

GCY 242 Qtzite and phyllite near x

GCY 243 phyllite/slate, pl pnk-olive grn N25E 25SE cleavage

CY251, High'g. fractured [illegible]

bedding? N40E 35SE

CY 221 East Ridge of Mill Mtn thn
[illegible] grn/gry slty meta sltst

CY 222 el 1550 B dusky rd clay soil – granite
or dol sap?? qtzite blocks on road cut to N.

CY223 deep red colluvial soil, qtzite bldrs, stabilized?
slide area possible sinkhole Fill in shoot

CY224 20' thick qtzite ledge possible
scolithus N55E 20 SE. Massive
well jointed, vitreous qtzite - Antietam?

CY231 1' thk ss layers N 75W 25 SW

Dec 9

GCY 289 at Lorner in boundary, There is a distinct break in slope below between gentle "hollow" karst topography and steeper mtn slope with a through going bench form

GCY 285 - limonite ore 1 bldr found in woods above cut on US2

GCY 191 40 X 40 pit in dusky red soil with chr gravel probably an old limonite pit 1470 b

GCY 192 parkway boundary follows a well established rock embankment either old road or railroad right of wa

GCY 193 in Hunting hills N65E 45 SE Yellow ocher clay shale - Rome

GCY 194 qtz ss blks & bldrs chips in soil

GCY 195 N 45E 62 SE cg quartz arenite, dirty ss oc in bam

CY 195 angular qtz arenite blocks on talus

CY 196 Ledges in Front Yard N 80E 58° SE

CY 197 Deep red orange cly soil in bank on E side of Killdeer Circle — rome or shady soil

CY 198 soil is sandy w/ ss gravels

CY 199 N60E 73 SE 2' ledge of cg impure qtz arenite

CY 4317 talus blocks up to 3' across under cut on slope definate slide scarp HAZARD

CY 4318 N55E 35 SE coarse qtz arenite ledges low water tower

CY 1910 yellow ocher shale chips in road cut Rome?

CY 1911 red-orange sandy soil / qtz ss cobbles

GCY 4516

(16) [illegible] filled with [illegible] bearing [illegible]
Coarse dirty ss ledge on rule to SW
N60W 50SW Massive - thk bdd vitreous quartz arenite
apparently on Fault contact cg drty ss
on hanging wall, vitreous QA on footwall

(17) N85E 50SE Scolithus bearing quartz arenite
bedding right side up

(18) N45W 40 SW scolithus bearing
qtz arenite, white, mass tex bedded
fine grained, vitreous cleaved

(19) ledge of coarse lithic ss/cgl w angular phyll vole
and granite frags. brittle deformation along joints
ductle, mylonitic Foliation N75E 80 Limonite breccia vei

CX 493 [illegible] of course [illegible]
neiss with 2" feldspar porphyroclasts
ittle River or Lovingston lithofacies

GCY 448 pink/red weathering sh/phy sect ~ 100 thk

N 90E 45SE scolithus qtz arenite Float

GCY 449 massive quartz arenite ledge N 60E 18SE seems to increase dip to SE

GCY 454 about 50' dia patch of qtz arenite on knob - must be nearly Flat as No distinct ledge / No! ledge seen from GCY

GCY 455 el 1170 distinct quartz arenite ledge on both sides of [illegible] V [illegible] steep SE dip

GCY 456 thin bedded [illegible] typical of Harpers'. N 65E 50SE [illegible]

GCY 4315 at el 1830 blocks of qtz arenite
in residual soil
CY 4316 N70E fracture cleavage 60 SE
bedding forms much lower
DEC 2 1994
CY 445 along pipeline 3' t ledge NS Vert, qtz arenite
not vitreous no scolithus = Unicoi?
GCY 446 along pipeline (below) 30' med bedded
qtz arenite section N60E 65SE looks like
upper Chilhowee / Antietam / Harpers
CY 447 N65E 43SE massive (fresh) bluish gry qtz arenite
med grained with truncated X beds indicating rsa
scour surface
pink/gray clay sh/phyllite
chips and [illegible]

2-28-95

GCY 738 along tracts behind College

N45E 25 SE reddish chert- or siliceous rock
blders in brown soil along tracks to NE

GCY 739 Qtzite cobbles in orange clg ~20' thk
dol LS blders in woods

GCY 583 oc of fine banded bio myl gnss qtz-bands
are finely mylonitic - looks like sheared
Lovingston / marshall (Stock Creek gn)

GCY 584 evidence of Sand & Gravel digging

GCY 571 N55E CO SE myl fol in med grained bio gneiss
Grey sap with green stone bands or dikes

731 N55W 35 SW bio gneiss - coarse biotite strong
bio foliation

GCY 594 coarse bio granite gneiss strong bio fol large blders

GCY 721 at Wright grn-gry grsy mvl schist and banded porphyroclastic protomylonite beneath trestle and under bridge - looks like a more mafic, heterogeneous protolith than coarse "Lovingston" granite gneiss to SE

GCY 722, dk grnish gry bio gn with Fractured Feld augen, bio is grnish blk, medium-dk melanocratic matrix

GCY 723 med gr pink/tan bio granite, leucocratic, scattered bio massive "sill like"

GCY 751 N65W 55 (115 55SW) med-Fine grained granitoid gneiss, banded, looks like monotx with less bio, Mylonitic zone, later folial folds possibly cross cutting Felsic dikes

GCY 752 coarse pink Foliated granite - N80E 55SE bio Foliation P crowell gap or Suckmtn or Grenville?

GCT 581 Mylschist, gn in stream

GCT 552 mylonitic gneiss, bio qtz Feld gneiss

N70W 35 SW, lineation S40E ~ many broken

Feld pclasts in 5.5 mm range

GCT 553 N70E 45 SE metased beds in stream

fine cult mica sch/phyl. and fine metagraywa

4" beds

GCT 541 green fg chlt mtl cgl - hyaloclast

bed? in unquoi??

diamitic lecture

GCT 542 phyllite chips on upper

slopes, then schist, and mylonite. At spring

is sap of myl gneiss with 1" or less layers

Locate Fault, Mineralized Zone

Call Roy Lochner 989-9210

GC 2216 200' SW OC of pure white dol
N 20 E 34 SE massive, micritic texture
qtz seems to form bench about 100' above
GCY 2217 large qtzite bldrs on slope
above houses — rock slide hazard exists
in case of seismic event
GCY 2218 el 1380 30' above old reservoir
N 50 E 25 SE 15-20 qtz arenite - ledge - vitreous
GCY 2219 el 1450 4 big >10' ledges or
2 repeted EW - N80E 40 SE
GCY 2220 N 13 W 30 SW 2 ledges = ~20' vitreous
qtzite
GCY 232 el 1160 ± 30 x 20" opening to 15' 20' dia Cist

233 Karst [illegible]
Waste - old [illegible]

234 rounded karst valley, next [illegible]
Very narrow

235 pebbly qtz [illegible] cobbles are [illegible]
From roanoke [illegible]

236 el 1200 green phyllite [illegible]
road

237 ledge 20 x 200 N 85E

CY 431 6/21/94

hite qtzite bed ~ 2' thick qtz layers (SBL)
/60W 70 SW, cleaved qtzite N80E 50SE
NBL), creme to yellow orange phyllite
hips

Y 432

monite - Goethite cemented quartzite breccia
BL OC 2X3

Y 433 N80E 65 NW Bedding? Fractured
ass/thk bded gray/w brn qtzite

Y 434 OC, SBL, Gry, Mass bded, Fine-med grained
tzite, spheroidal forms, brn weath
ssible bedding N75E 75 SE, Joint N10W 75 ~~NE~~ SW
s. jt ll bedding. GCY

GCY 435, SS - qtz, [illegible] to lt [illegible]
[illegible] lge in [illegible] SBL, weathers pt.

GCY 436 SS - qtzite as above, thk - med bded
Elongate, elipsoidal grains inc blue qtz, zircon?
cly - Feld. subtle lineation S10W 30 SW. Extensive
Filled fractures ⊥ bedding

GCY 421 SS, wh, Fg, mass, blocky jtd
N25E 45 SW in roots of ot pine NBL

GCY 422 SS, wh, Fg, thk med bded, weathers
to soft white sandy resid N60E45SE
100' strike section.

GCY 437 N45E 45 SE 2' whte qtzite in SBL

GCY799 N80E 45 coarse bio gran ind with fold
porphyroblasts in bio mtx then dark
greenish gray mafic rock – coarse bio/amp
fold – granoblastic text on right bank of
Magadee Creek upper contact exposed
about 75' SE of bridge contact is sharp
with coarse granitoid Livingston ~ 20'
thick then another mafic layer ~15'
Then coarse bio gran gn

GCY 651 N35E 40 SE coarse pink granite layer in fine med cr bio granofels, more granofels on road to north

GCY 652 Coarse leuco granitoid with whispy clots of

GCY 653 med leuco granitoid

GCY 654 Coarse pink granitoid (grn hbd) microwave

GCY 655 episodite vein N10E 55SE, cleavage or kinking in band N35E 55SE

GCY 622 med-cg bio hbd granite N80E 55 SE

GCY 623 Felsic gran pegy bldrs (1-2')

GCY 624 med-cg Foliated bio (hbd) gran bldrs

GCY 625 N80E 55 SE F-Mg gran gneiss, pink lay

GCY 656 at tennis court and picnic areas bldrs of fine bio granite gneiss

GCY 766 N 80E 30 SE

Saprolite in rr cut mylonitic Mica gneiss and mica schist

01/06/05 GCY 2317 Fe breccial -

GCY 2-3-18 WP 278 37 14 946

outcrops of Massive 1 79 55 45

Fine qtzite in road

GCY 2319

RNK 1 white qtzite blks -

50' below hill

GCY 23-19 flat on nose

has limonite qtz breccia

Float = Fault [illegible]

prospect road ?

WP 279 - 37 14 987

- 79 55 394

01-07-05

GCY 2320 WP 180 springs

near (100 yds from Rt 46

at el 1050 N 37 14 954

W 079 54 956

GCY 312 on nose ~ 30' above cf

granitoid (Ybc blrs. on OC

WP 281 el 1011 N 37 14 905

W 79 54 238

GCY 717 Blue qtz [illegible]
float along trail WP 273 37 09 74
79 59 29

GCY 718 WP 274 N42W 80 NE
N 37 09 865 W 79 59 305
coarse protomylonitic granofels
pink feld and thin bio parting
W
W

GCY 72.13 cl 1301 WP 275
N 37 09 .668' W 079 59 .05
coarse granulite gneiss 30' thk
above road

GCY 7214
Natural exposure on E side N7
[illegible]

GCI 7215 N 20E 40 SW cg gran
lg PGS 37 09 486
79 58 838

GCI 7216 WP 277 N80E 70 SE
N 37 09 424 Massive ledge of
W 79 58 801 coarse mylonit
Feld augen up to 30 cm
σ rota

GCI 7217 N 45 E 50 SE myl
W leuco band inch
DEC 23 '2004 Rainy Day
GCY 765 N 00 E 40 SE Saprolite
cut in thin layered to platy
mylonite gneiss
GCY 754 Large OC of thin lay
to flaggy Mica gneiss or mylon
N 74E 42 SE - Good Fresh OC

GCY 917 N80W 80SW coarse b
gneiss ledge in road bed
at beginning of hill climb to
cl 1234 N 37°09.128' W 79°54
GCY 918 med grained hypidiom
granular lite tan-pink
biotite granite float on spu
dike? or massive layer, mylonitic
layer below N80W 80SW
Dec 22 '04
GCY 726 N50W 70 NE comp layer
= elongate feld pb stretached
along foliation coarse bio gn
GCY 727 coarse biogn flt, strong
foliation, flaggy blocks, on slo
WP 263 N 37°09.045' W 79 58.655'
GCY 728 lt gy-pink coarse leuogran
gneiss w/ streaky granulitic
foliation, Nostly K spar up
5 mm dark clots of
alt pyx along folia. Rough
"hobnail" WP 264 37°09.380 79°5
cl 1304 Foliation N20E 75SE comp layer
GCY 729 N 8 W 80SW vcg leuc
granulite gneiss w/ large (30 mm) Fel

Lg bio gneiss - augen
on massive ledge and pavement
in stream at end of residential s
cll 1171 37 03 .172 79° 54 .126
GCY 914 lg bldrs of cg equigranu
to gneissic bio granofels / gneiss
along slopes
GCY 915 lg bldrs as above abund
f ti oxide (ilmenite in bed load of stm
cedars red clay soil shed from in
granulite terrain to NE el 1280 37 09 22
79 54 769
GCY 916 Lg bldrs of dense smooth
to pitted greenish gray hypidomorphic
granular meta charnokite, brown punky
and soil WP 254 el 1361 N 37 09 .240' W 79°
Beautiful stand of young Kaplans to
in bottom and lower slopes
GCY 8313 massive BLK or OC
of cg grn-gry meta charnokite
WP 260 el 850 ?? N 37 09 312 79 54
~250' accuracy
GCY 8610 colonial cabin site, hog pen
assorted pots and pans photos of Chim
mostly augen gneiss (Flat stones) sur
for laying dry!
N50E 80SE Bio mylonite gn / schist
sap in old road cut 100' N of

NOV 2 2004

GCY 716 WD 229 EW 70 S

N 37 08 709 sap of blo schs

79 57 924 w/amp strings

well cuttings. black+w blo sh / gps

abudt pyrite

coarse grained GCY 761 9/1/

Black and White

mylonite gneiss or protomylon

w/ feld p. clasts up to 30 mm

continuous qtz ribbons 3 mm

sp @ 37 08 347

79 58 237

cl 1542

Mylonite layering N50E 40 SE joints

N50E 75 S Dip vect 140 @ 75 (St

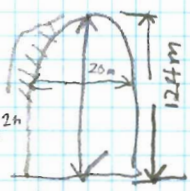
X joint 240 65 S

SEPT 13 2004 GCY 764

WP 072 N 37°08.565' W079 5

SLIDE IN MURRAY GAP PHOTOS

HEADWALL HURICANE FRANCIS



TOE

Escarpment N 46E 40

Headwall @ 1405'

37° 08 575' 79 58 3

Photos of slide

Photos of MN coated

Head wall slicks old fault

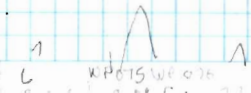
slicks plunge S 2° E @ 26° SE

joints in scarp N 42 E @ 6

N 76 E 8

compostional layers in my gx gap

N 46E 40 SE



GCY 397 X

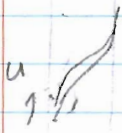
N 10 E 40 NW

N S 60° W most dominant

qtz Filled tension veins

N 20E 42SE

Plan



GCY 398 mylonite gneiss, myl layering N45E 60SE

GCY 2321 @ WP 282 N 37° 14.182
W 79° 54.979
photos of black
fractured Wayne Gore Carbonate
and spring upwelling — Wayne. G
carbs are highly frac
seem to dip gently SE
N 20E 50SE ?? sinuous and dip
of mass fractured beds

GCY 371 WP 282 37 13 325
79 53 745
Oc of Mylonitized Unicoi SS + Phy
N 20E 40 SE comp layers
mylonite Foliation w mica f
pebble cg SS grains elect
S20E 20SE Cleavage N 10 E 50
tops to N
assymetry
p-clasts

GCY 396 N 37 12 997
W 79 53 25 el 835 on
N 50E 40 SE Fg grn my gn or
granofels WP 283 qtz bio feld
possibly gt granulite relects

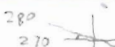
GCY 397 WP 284 37° 13.013 795
near vertical brittle fracture
cutting mylonitic Foliation
corresponds major of
S_2 = N 24 E 30 SE
Fract N 10E 80SE, to

WP 047 at switch back to ri
road Gp1 37 08.258 Felsic
79 57 581 gldrs
Fine salt and pepper mtx with
cars bad twinned orthoclase ph
red glassy phenocrysts or pbs (g
or Piedmontite ? SPL GCX795

WP 048 GCY 741 N 60W (120)
Mylonitic sch/gn zone in
mafic granitoid gneiss cs
dip and shallow dipping zone
15° at 210. Shallow zone to

WP 49a GCY 742 lineated gne
in high strain zone on
Magoty Ck 57° 08. 462
79° 59. 506 e
Digital image of lineation
foliation N 80E 55 SE
lineation S 35 E 50
qtz-fold par pencils in dk bio
matrix HH 145 @ 50

WP 50 GCY 761 Rockydale Quarr



Sept 1, 2004 Garden City Qu

GCY 7-9-1 WP 042 37 08 080
79 57 521

Outcrop of coarse porphyroblastic bi
augen gneiss (saprock) in road
Stong fracture system at 280
SE -75° microshears
cross joints 020 vertical
sense of shear from mylonite
Right lateral cleavage 250°
at 80 SE

GCY 7-9-2 WP 043

strong mylonitic schistosity at le
15' wide high strain zone
N37° 08.203'
W79° 57.613' el 1901 GPS

GCY 7-9-3 WP 044 10' cut on NW side
joints closely spaced in coarse
blackand white granitoid (gneiss)
Strike joints 294 70° SW
cross 010 70 SE

EL 1963 N37 08,244
W79 57,589

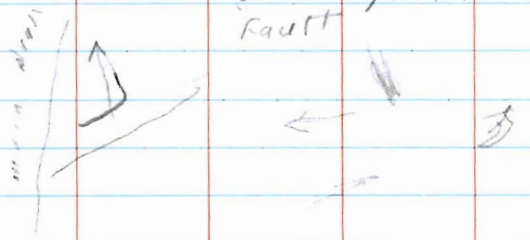
WP 045 pavement, strong mylonitic gn
270 74 N 37° 08.249 el 207
79° 57.683

WP 046 SITE ID 81420 Cell Tow
GCY 7-9-4 37 08.233 el 2116
79 57.707

Dec 22 04

GCY 713 White qtz-fl blks at head of incredible steep hollow along Fries fault N70E 49SE Fractures 11 bads ??
WP 271 N 37°00 964 W 79 59. 225'
GCY 714 N 14E 32SE chlorite or phyllite. Unicoi? 100' NW o

GCY 717 pnotes of sheared qtz cgl in Fries Fault, 20 at WP 272 37 10. 038 7 el 999 N15E 30 layers clear of syncline in fault



GCY 715 N74E 85NW phyllite chl mica, thin qtz or saprolite on pipeline

GCY 716 V cg sheared leucogranulite now protomylonite N48E 50SE layering = gneissic banding

in light mtx ext by discon stks
and clots of mafic minerals -
WP 265 el 1408 N 37 09.580
W 79 58.770

GCY 7210 WP 266 N 37 09.694 el 154
W 79 58.798
Topo el ~ 1460 ~ 100' laterally below break in
slope on ridge. Coarse garnet granulite
deep blue quartz

GCY 7211 N 70 W 80 NE large bldrs + b
possibly rotated in head of drain
shooting below on bearing S22W ri

GCY 7212 shooting stopped! Photos
of cg pyx granulite outcrop, spls
layering N 70W 70 NE
wp 267 el 1620 N 37° 09.799' W 79°.58
el topo 1620

GCY 485 massive layed cg granulite blk
on summit @ WP 268 N 37 10 037 W 79
el 1542 ~ topo 30' correction on Bao
Ledge near 62 SE

GCY 475 New house on nose of
ridge
GCY 486 Pale grn - tan weathered ch
phyllonite + mylonite gneiss
saprolite in roots of ot tree
WP 269 1293 el N 37° 10.123' W 79° 53.
GCY 487 N 20 E 30 SE phyllonite / mylon
Outcrops at head of hollow along old
@ WP 270 1424 el N 37° 10 095
phyllonite, mylonite with W 79 59 098
qtz veins produce knobby topography

GCX 983 Dup

Aug 6 '04 GCY Garden City.

GCY 975 N70E 54 SE 0.5 Im
large sheared leuco gran gneiss/
qtz + musc + bio + feld
GCY 976 N70-80E 80 SE
clean cutting bio foliation of
coarse bio augen (Lov
like gneiss - ledges follow
cleavage on hillside N 37 07
GCY 977 N56E vert W 79 54
coarse leuco granitoid gneiss
mylonitic fabric large feld
porphyroclasts in schistose (
matrix 37 07 930 New House
GCY 978 79 54 160 50 yds to
N20E vein 40' qtz vein Oat Crops
Woods 37 07 751 79 54 242
GCY 979 N60E 60SE massive bio gran
sap rock ledge in CK @ 37 07 706
79 54 217
old tobacco barn below new House
37 06 132 79 52 512
Aug 12 '04
GCY 981 pup. N60E 50 SE big
w/ mica schist bands in new roa
site
GCY 982 N60E 52 SE bio gn w
fol. small (5 mm) elong qtz
below old dump 37 07 553

GCY 396 WP 255° 37°.12.683
79° 52.770

Coarse augen gneiss sap
N 60 E 48 SE S 30 E 48 SE
lineation (stretched pclasts
and crenulated mica foli

GCY 95A N 22 E 70 SE ledge of
pinkish grey myl bio gr gn along bank of
int N 70 E 50 NE

GCY 955 N 50 60 SE Mds le
of CG Bio Augen GNEISS
white = βk fcld p clasts in

3" long strung out along
lineation
WP 256 el 883 N 37° 09.0
W 79° 53.88

Lineation Plunging N 80 E 40 NE
down to NE?

GCY 956 E 20 E 70 SE cg bio gr
with 1" thin leucogranitoid st
(sills)

GCY 957 N 60 E 70 SE my foli

GCY 684 coarse bio granofels bld
in stream 1204 37 10 109
WP 252 79 53 737
GCY 924 EW 80SE dark gry green mylon
with 25mm flattend feldspa
p-clasts (qtz ribbons) chlorite
12/21/64
GCY 637 N50E 35 SE con
zone lit par lit injectio
of crosnore leucogran in
biotite gneiss photos
WP 253 el 1412 37 12 328
79 52 965
GCY 638 N78E 60 SE 610 g
leucogranite ledges in hollow
of 116
GCY 639 N70E 50 SE coarse b
gneiss w strk cleavage, w
febric
GCY 394 WP 254 37 12 596 79 52
el 1472 ocs of cg bio granitoid
or protomylonite
GCY 6310 N 60E 30 SE
foliation in coarse bio my
CY bg
GCY 395 photo of Mill Mtn/DOWN
FROM WIND GAP ... leucogran

GCY 635

(5) N 76E 34° SE biotite gneiss layer
on road at 1587' N 37 12 2
79 53 0

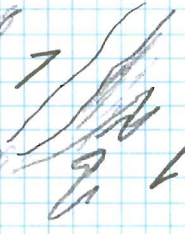
GCY 658 Crowell Gap WP 249
el 1878
N 37 10.881 100' SE OCS
W 079 53.877 N 46E 50 SE
elongate domes or whale b
of course granitoid
bio qtz kspar (plagioclase perthite
brown rimmed (o) ilmenite
GCY 938 massive blue qtz sca
coars bio granofels N 20W
OCS in stream @ WP 250
N 37 09 947 W 79 53 307
GCY 923 Massive to subtlg
Coarse bio granofels with
relict hypidiomorphic texture
WP 251 el 1341 N 37 09 962 bio F
N 52 W 70 NE W 79 53 442
Fracture cleav N 70E 60 SE
GCY 924 coarse grained hypidiomorphic
granular bio granofels
large bldrs + blocks Joints
N 50E 70 NW
N 20W 80 NE

GCY 6211 N45E 42SE v cg mylonit
gneiss in stream GPS WP 245
37° 12 .415
79 53 .572

GCY 6212 N40E 60SE Sup exposu
in road bank cg mylonitic bio gn
w leuco layers more like sheared lovingsor
spring in field to SW 1093 el 37°
79

GCY 631 N60E 34SE comp lay
in coarse grained bio gneiss, le
granite stringers (photos) Cliff
at head of hollow —
Layered gneiss may be granulit
relic GPS 37 12 114 1201 el
79 53 498 1550 b

leuco zones w/ bio selvag
Fold hinges up to NW
plunging hinge S54E 20
Mineral lineation wrap
S45E 40SE groves
stretching line



GCY 632 OC of coarse bio granitoi
(Stewartsville Pluton) N 70E 50SE
37 12 292 WP 247
79 53 117

GCY 633 el 1612 N 37 12 348
OC cg bio granitoid 79 53 .06
in gd

GCY 634 N40E 60SW fine-med
leucogran on point

1071 el

GCY 166 WP 236 N 37° 11.832

79 54 532

S 20 W 20°

GCY 177 Fine diabase or Jurassic b

bdrs in creek WP 237 37 11 782

79 54 451

GCY 178 N 70E 42 Grn mgl gn/sch

add

Diabase inck WP 238

Joints N5W 75SW close spaced

GCY 179 leuco granitoid or meta rhyolite shist Flo

white schistose mica Foliation

blocks along stream

WP 238 37 11.761 79 54 322

on south slope above qtz vein w/pro

N 20E 60 SE Foliated - cleaved

GCY 1710 OCS (bldrs) of vcg

pink biotite granitoid gneiss (St

Crowell Gap Pluton N 37 11.707

Foliation W 79 54.243

N 70E 30 SE?

GCY 642 N50E 40° SE photo of la

outcrop of Crowell Gap Granito

gneiss even grained hypidomorphic to

granoblastic elongate gneiss lec

qtz - K feldspar minor plag minor

M

GCY 627 coase leuco granito ledge on no.

N 70E 40SE Fol (ledge forms dip sl

WP 240

37 11 809 79 54 075

GCY 628

N50E 48 SE coarse b/w bio granito

1" feld elongate ll Foliatio

el 1439 1640 6

37 11 856 79 54.036

GCY 626 redux large blks of
Crowell Gap Granitoid
WP(at nose)
242
el 1758 37 11 965 79 53 637
GCY 629 N 76 E 45 SE large ledg
cg bio gn w/ feld augen along f

GCY 6718 N 40 E 50 SE dk gy on bto
bio gneiss with cg feld p clasts
WP 243 37 11 790 79 54 157

Dec 17 04 GCY 311 spls of g
rich metachernokite
(Pb granulite gn) from new
subdivision WP44 el 1428 N 37° 14.854
W 79 [illegible] 762
GCY 629 at intersection N 40 E 40 s
Mylonitic Foliation or cleavage
in bio granitoid gneiss saprol
coarse leucogranitic layers
N 40 E 20 SE IN stream strongly my lin
w/ augen x 30 MM Down Dip lineation
S 42 E 20 SE | 37 12 500
GCY 6210 Forks | 79 53 608
of stm coarse sheared leucogran lo
CNorspen Mtn gn N 45 E 23 SE
Main [illegible]

New cut at [illegible]

GPS WP 233 37 13.777 79[illegible]

Ocs of mineralized breccia along road. Area Filled with Rome Fm

GCY 1623

Breccia mostly siltsn from harpers Fm disrupted

Layering ? N 60 E 80 NW

Cleavage N40E 40 SE

Hinge lineation N 30E 5-[illegible]

DEC 16 04 GCY 165 WP 234

37 11 925 906el

79 54 575 Coarse Meta ss [illegible]

in stream N70E 33

Photo of boudinal bed

boudin, stretched pbls S 10 E 40

N40E 40SE streaked out Mylon[illegible]

phylite, chl qtz Fcld

clasts GPS 37 11 881 79 54 5[illegible]

el 978

GCY 166 N40E 62[illegible]E layered

mylonitic gn or meta ss [illegible]

2 Folds in comp (qtz) [illegible]

N

darks green and white mylon[illegible]

Dec 15 04 GARDEN CITY

SLATE HILL DEVELOPMEN

GCY 1510 white qtz ss Flt, ...
in road cut above dk mn ric...
clay soil w/ black mn qt...
breccia Flt - Contact ~ 1300 b ...

GCY 1511 spl of qtzite Fro...
nose of hill
house site 12 65 ... clay soil

Lumsde Associates PC
DM NO 04 6069
11 11 04

SLATE HILL

GCY 4319 New Subdivision ...
qtzite ledg on spur N60E
EL 1384 37 12 .136 79 57 .692
Hidden Ridge lot 12

GCY 4320 OC in lot HIDD...
grey meta siltsn cleavage N...
bedding N40E 30 SE
37 12 116 79 57 762 (WP2...

LOT 9 Hidden Ridge
Feruginous Qtzite Float on lot
interbeded w. gy sltsn SPL

GCY 517 Clearbrook Int. new grad...
exposed mn rich black soil (Shady...