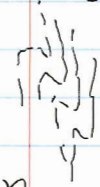
7/9/97

ING-192 N 75E 18 NW Coase muscovite-granitic gneiss Foliation strong musc qtz ribbons/stretched feld = mylonitic lite pnkish gry to white

Green helicopter survailance at this stop

ING 432 Old mill site OCS along ck bank light gry lineated granitoid gneiss S65 - S55W sub horizontal lineation, kink bands or tight sinestral folds outlined by muscovite



Foliation qtz bands w Kspar segregations. Fine-med grained biotite gneiss N 75E 45 NW Myl layering

ING 512 N65-70E 25 NW thn to medium layered fine med gr ylw gry to pink granitoid gneiss musc schist layers in float

ING 521 N55E 30 NW med cg gra gn sheared ledges

ING 521 N55E 45 NW fg stp pnk-gry grgn - no layering - massive

ING 522 N65E 35 NW, ltgy - pnk
fg grgn w/myl Fol.
ING 523 N75E 65 NW " "
qtz layers
ING 524 Fbanded bio gran gneiss lt gry
s+p, laminated or mylonitic foliation
ING 525 m-cg lt gy - ylw gry
bio Flaser gneiss. Qtz bands
mica rich clots. NOT OST
ING 526 Cg bio flaser gn
enclaves of m-fg s+p gn qtz bands
musc schist Float

ING 261 EW 30N Kmk folds plunging
N10E ~30 coarse muscovite fish scale
schist and gneiss ocs on road. weathers
sivergray to purple, massive,
very little banding

ING 371 Lt gy to greenish white
epidosite/ calc silicate qtzite
Flaggy bedded, brown weath bands
E-W 50N
ING 372 Gray-silvery gray mica sch/gn
ocs across track, Fish scale text
cren N30E 60

ING 611 N80W 40NE sap of cg bio gn
w/ms float abdt vein qtz & yellow
sandy soil
ING 612 N55-60W 35 NE granite
stringers in ylw-brn hbd or bio-hbd
gn sap at roads end
ING Pavemet exposures at stream intersec
granitoid gn N45 W 30 NW, diabase
(2 dikes or 1 dike with septum

ING 531 N80E 65 NW meso banding in dk gr / pnk banded bio gran gn fine grained paleozome, coarse pnk leucozomes massive weath wide spaced vert joints

ING 532 N75E 40 NW th bedded fg bio gran gn with feld leuc zones forms 75' long 50' high cascade in stream valley Good field stop

ING 533 N75E 25 NW dk gry and white bio gneiss with black bio pbs - dark and lite banded 2" - 1"

ING 534 EW 20 N Coarse porph gnic gran s,ll overlying black and white laminated gneiss

clear N40W 35NE

C-S Fabric

lin N70E 15NE

Between

ING 534 N75E 30NW musc-bio sch/gn

and

ING 535

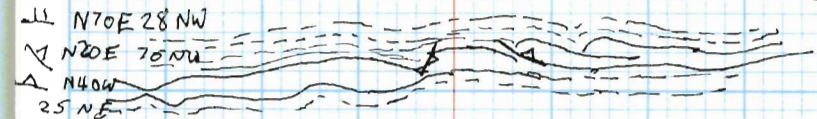
ING 535 Ledges of fine layered bio gr gneiss. Lt gray, s+p text green & black bio layers scat musc pbs, qtz fold - bluish black accessory mineral

ROCK SPL

ING541 N75E 35 NW lineation on cleavage (c+s) N70E 10 NE lt gray - yellow gray bio gran gn mylonitic - protomylonitic texture

ING542 N75E 40 NW med - fg s+p gr gn lt gray - pinkish gran gneiss dark bio rich seg layers coarse leucogranitoid stringers (PINK) Very flaggy fg well layered down stream lite + dark banded

ING 543 Fg dk gry bio gn/sch 2" - 6" leucozones is layering offset by small folds or faulted



GOOD FIELD STOP

ING 544 EW 38 N B+W BIO GN Leuco gn sap

ING 545 4" grn amp sch float w/ flaggy felsic gn in field

ING 546 N70E 35 NW ledge of fg bio gn in stm at small (4') waterfall. Exquisite Blackberry bush in Field

ING 641 red soil coarse amp Flt
Cocre

JULY 11, 1987 ING 642 1 acre bald
near intersection w/ Germy Creek
leucocratic layered gneiss y/w
to white weathering lt gry slt
and pepper text grgn - fine mg
prominant qtz bands - flat
pavement along stream N 60 W 34 NE
qtz - kspar - bio - musc - gt - sphene pnk brn
so/ cascade below to Germy ck Flood pl.

ING 643 N 60 W 40 NW hbd gn w/ mica
sch / granitoid layers - red brn
sap. Folds down foliation

ING 644 N 30 W 30 NW med cg lit gry
white weath grgn

ING 461 Soil Profile near INT SR 710 & 820
A 0-0.5' silt loam reddish yellow 5YR 7/6 blky
B ~~.5~~ -1.0 clay loam slty 10R 4/6
1.0 - 4.0 clay loam, sticky, micaceous
10R 4/8 (amp sap w qtz veins at refn

ING 121 cg musc gran gneiss, lineated
pink to lite gray
ING 122 N 80 E 30 SE 1m N 60 E 15
ING 123 S 40 W 5° lineated pnk N 40 W 18 SW
and gray granite gneiss (mixed in Spill Way Cut

ING 124 Fine Folcated dk gry blo gran gn
N55E 85S

ING 125 N75E 15 NW musc peg in gray bgn sap

ING 126 N55E 75 NW med - thin bed fg blo gn and hbd gn below dam, red mica clay sap abov

ING 127 N45E 45 SE cg sheared grgn

WED 2 AUG '67

ING491 cg tan grangn/peg sap highly foliated

ING492 CG gr Flt, coarse musc gn/sh sap N80W 35 NE, lineation N70E 10 NE

ING493 N60W 35 NE
COARSE + FINE porphyroclastic musc qtz-feldspar gneiss outcrops some shows strong layering which looks primary. Massive ocs with banding and lineation, below N40W 20NE Lineat. N80E kink 15 NE although the unit is coarse and lineated it does not have biotite like OSt. and is definately mixed with coarser peg layers and dikes and musc blisk pods in soil

ING 494 N80W 50 NE layered blo gn saprolite - cg massive

ING 495 N70W 30NE cg blo gn/gran gn with migmatic layering

LNG496 N00E 50 NW mafic banding in blo gneiss, tight to hinges N30E 30NE

Fsocimal Forms

anticline syncline pair Leucocratic

ING 571 N80°E 25 SE bio gn with sheared granite layers

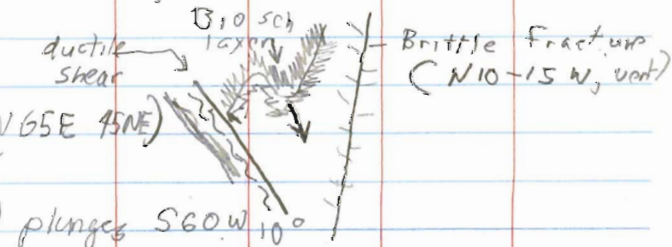
ING 572 N20W 25 NE dome-like pavement outcrops lineation plunges N80E-N80W coarse bio gneiss resembles Old Mill facies

ING 573 N70W 40 NE black bio hbd? gn in stream leucopods and stringers

ING 497 N60W 27 NE Foliation in cg musc. granitoid gneiss, pink and gray with accessory biotite

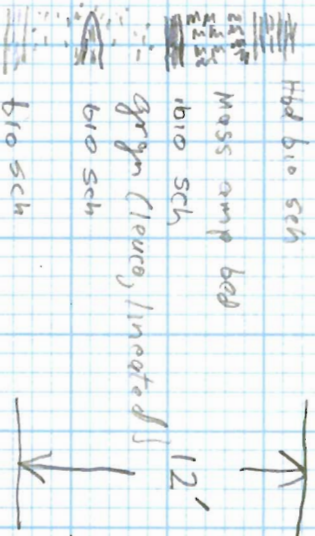
ING 498 N70W 25 NE comp layers (bio rich in grgn sap - tan - pink stp text

ING 499 long exposure of tan to brn bio gn/grgn sap along steep cut bank late foliation N55W 20NE Mylonitic cuts grgn fabric. Bio amp boudin layer outlines Fold



ING 811 N60W 20NE Foliated grgn - red cg w myl schist zone at stream intersection

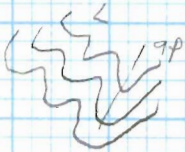
ING 731 N75E 60NE amp/bio gn sap (dk grn-blk) w granitic zones / MIGMATITIC LAYERS



ING 812 large blocks of hbd gn, in foundation and around tree in front of old house

gneiss is cg and layered 49 Ford coupe by barn

ING 813 N40W 32NE coarse bio gran gn w some comp banding and hbd gn layers



Very good fold exp.

ING 814 N50E 10 NW coarse bio gn ledges below

HNGE N75E 18 NE
AP N70W 45 NE

OCT 16 1997

ING 821 coarse bio gn sap nearly vertical (enveloping surface) compositional layering N80E 15 NE hinges EW 15 N ap m folds.

ING 831 N60-70W 40 NE dk bio? sap band in tan micaceous gn sap diabase bldrs in stream

ING 581 N85W 25 NE fg - cg pink/orange/gry white leuco gneiss with distinct undulose comp bands Felsic Flow banding in tuff or rhyolite Flow?

mica rich

ING 582 N85E 32 ~~NW~~ mica rich fine grained leucogneiss with coarse granite sills 1" Feld porphyroblast/ phenocrysts in sills layering pervades gneiss and occurs as bio schleren in sills

ING 583 N85W 55 NE Musc garnet schist w fish scale text ~ 20' thick below dam.

Cren N40E 15 ~ right lateral

No "streaking" lineation

Cren

qtz losenges

10/16/97

ING-821 contourted bio gn ledge cross stream N70E 65 SE (ds)

ING 832 N40W 25NE cg hb bio gn

ING 911 N60W 20NE bio gn with leuco granite stringers – very felsic soil

10/20/97

ING 671 N50W 40NE bio sch/gn oc schistosity in stream + coarse bio qtz lam

ING 672 new pond excavation in brown mica sap./sub soil no part struct at 2 ft

ING 673 N15W 20NE coarse garnet musc schist with kyanite blades garnets to 5mm possible St prisms

ING 661 hbd gn/amp Float on road

ING 662 fe + tourmaline + qtz + feld granofels Float at cross drain comming of appling / cecil clay loam on upland slope

ING 663 N60E 40NW brn bio gn sap w much grn in stringers along foliation

10/21/97

ING 921 OCS OF FEMG BRECCIA - FORMS LEDGE ALONG N-S RIDGE COASTAL PLAIN?

ING 922 QTZ + DODECAHEDRAL FE RICH MINERAL 2 SMPLS

ING 933 fg meta qtzite flt (white weathered meta

ING 944 White Al_2SiO_3 + qtz + musc schist / granofels OCs N50E 30 SE - rude foliation

ING 945 N25E 35 SE fg white / ltgry qtz feldspar gneiss or meta granitoid leucocratic - looks like felsic volcanic closely cleaved, apparent thin bedding zones

ING 996 N20W 15 NE flat cleaved felsic granitoid schist or slate

ING 681 N55W 12 NE comp banding (musc sch layers in leucocratic sch/gn unit

ING 682 N40E 34 SE, thin lam felsic meta tuff beds

ING 683 N30W 15 SW thin lam felsic metatuff beds in stream bank - gravel

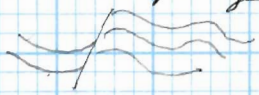
ING 684 N70W 45 NE thin amp bio gn zone in stream

ING 927 blocks of sillimanite qtz gr at old cabin

ING 928 Quarry old stone piers part of dam or bridge quarry 50 x 50 x 20' deep sheared pegmatite (mylonite gneiss, and qtz sillimanite gn. N 65W 25 NE mylonitic foliation

ING 929 N50E 25 NW, lin rakes S70W at 10 felsic gneiss. Below old millers house

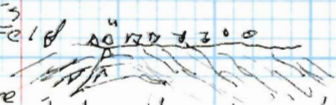
ING 881 culvert fill collapsing / illegal dump
ING 882 N60E 15NW folded felsite gr layers. faults or jointy N75E 72SE S75W 10 plunge of lineation (grover



ING 883 N60E 25SE bio gn sap w thin beds / sills of grgn / feld qtzite
ING 884 N60E 32 SE fg bio gr cgmica schist interlayers of qtz feld gn and coarse gran stringers - mylonitic fabric lineation (hinges S70W10

ING885 N55E 15 SE hbd gn
ING 645 N55E 70NW fine grained grgns lt gray-white fine bio foliation or gneissic layering. Large pavement exp
ING 891 Brn & white gneiss sap N30W 65SW feld dikes cutting bio gn/sch unit / v p blastic

ING 886 N55E 55SE thn layed bio gn/ms in stream
ING 887 qtz-sil-musc sch flt in ridge field
ING 892 N70E 25 SE coarse pb bio gn w/ hornblende gneiss layers → gradational contact to NW
ING 861 coarse pink granite pegmatite crossing creek, qtz core N80E 65SE not deformed
ING 862 N60E 40 NW grgn saprolite below old channel deposits faint bio bands, feld stringers N40E 65SE down to SE shear zone



ING 887 N80E 30SE mica schist sap crop next to pond — bluish gray

ING 971 N65E 25NW f-mg blo gn with intense migmatitic leucogranitoid banding & porphyroblasts

ING 972 N15W 35NE med banded pblastic blo gneiss w/ leuco granitoid gneiss bands, schistose saprolite below N55W 30NE looks like sharp upper contact

ING 974 N30E 30SE fine blo gran gneiss with leuco bands hbd layers upstream

ING 975 N60E 50SE layered fg gneiss in stream

ING 976 N30W20NE cg pblastic blo gn sap w/ 6" hbd gneiss layers

ING 941 N55W 45NE leucogranitoid layer in gray pb blo gn saprolite

ING 942 N70E 20NW qtz nibbons in pink/orange qtz feld gneiss

ING 733 hbd flt w/ ab dt felsic stringers = hbd blo gn

ING 841 N50W 30NE cg blo gn sap pos. hbd. on old logging road

3-97 N 38E 10SE Well layered qtz rich. 361 blo gran gneiss med-fg stp text. Large ocs in bluff above creek

ING 362
FLAGGY F-MG S+P GRGN PILES
on BLUFF
ING 321 n 20W 10 NE bio sch ptg in
gray bio gran gn open dextral
folds plunge N 45 E gn sap well layered
massive meta ss or volc
DEC 15, 1997 W/ BART FROM STATE
ING 161 bldrs c bio gn, f bio gn
gray stp text
ING 162 layered leuco bio gn
light gray - tan sap dark sap
bands outline apparent
isoclinal folds cut by layers
210 20 NE (LATE FOLIATION)
ING 163 pavement of black + wh
cg bio gn 130 or 310 g-9° NE on
pavement N50E 6°
ING 164 layered granitic / bio gn
N48E 55 SE dark bio / amp?
layers granite on sheets cuts
320 28 NE older layering
ING 165 lineated cg bio gn N55E 26 lin
ING 166 Med grained granoblastic
gray to pale pink leuco granofels
rude foliation N30E N25-30E 6 SE
ING 167 coarse bio/chl shear zones
in bio gn sap gentle dip
ING 168 N40E 10 lineate hbd gn
ING 169 N56E 20 SE F-Mg bio gn sinistosity
weathes to comp banding - No strong
second foliation
ING 1610 good Qc of med fg bio gn
ING 1611 fg hbd bio gn
Flaggy to mass, low dip in Stn

ING 194 Fg hbd/bio gn Flaggy
low lying OCS in Stu
ING 195 Fg pink weath Grgn —
thin sill then Ky musc granofels
ING 471 Cg bio kspar gran gn
N70E 20 NW
ING 472 N76E 25 NW Fg felsic gn
in layered sap breccia in stream
ING 472 N75E 40 NW coarse Feld pb
bio gran gneiss = Shelton
ING 474 N60E 60 NW bio gn/Felsic
gneiss sheared,
ING 475 N60E 60 NW dark mtx bio gn. w
feld pbs, Felsic layers
ING 476 bio-hbd gneiss with
recumbant, refolded mafic layers
N60E 62 NW lin N54E 10°

ING 477 dk hbd? bio gn w/leuco
bands

ING 478 N60E 32 NW Banded hbd bio
gn N48E 20 NE
NW SE

ING 381 WELLSPRING PROPERTY Fg layered bio gneiss ledge in grass

ING 382 N80E 28 NW coorse musc gran gneiss (shelton) ledges

ING 383 Pavement Ocs on either side of stream N 85E 15 NW

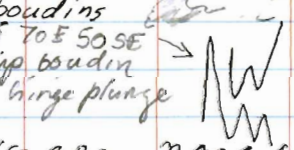
ING 391 2 stone bridges crossing Tanyard Branch and Carlton Crk Part of Original 1900s estate? (Shelton Cr)

ING 392 House no longer standing stock pile of dimension stone and timber Oc of Ost in Road E-W 80 N

ING 393 anoter stone bridge

ING 394 Kink Folded fg bio gn with pelitic? layers

ING 631 N80E 55 NW Highly contorted hbd bio gn / granitic gneiss layers Folds & boudins



ING 632 N70E 42 NW Flaggy ledges in stream below "Willis's Bridge".

St Francis statue

3/28/02
Ingram Quad. Site F
36° 42 27.49
79° 07 47.94
ING 634