BFD-441 ns 55E MED GR GRANULTITE GNEIS
DK GRNISH GRAY, WEATERES V. LITE GRAY
BRITE ORANGE SOILS
BFD-411 N55E 65 SE PINK GRANITIC SAPROLITE
FINE-MEDIUM GRAINED
BFD 412 N60E 35 SE coarse mylonite
gneiss / protomylonite – bio augen gn
BFD 413 tan-pnk sap of sheared qtz
Feldspar rx, biotite along mylonitic foliation
BFD 171 N65E 65 SE FOLIATED BRN GNEISSIC SAP
Possibly sheared granulite
BFD 172 mylonite schist exposed in
driveway (sap, brn
BFD 173 Mylonite schist in road base (sap, brn

BFD 141 new well in dk gry mylonite gneiss (biotite, Feld + blue qtz grains. Fine grained pinkish gran and phyllonitic chips in road bank

BFD 142 NEW well in gray gran gn

BFD 482 N50E 40 SE massive ledges of coarse bio gneiss with bluegte peg stringers along biotite segregation layers

BFD 483 cg Feld [illegible] in stream

BFD 424 "

BFD 425 coarse blue quart in granular [illegible] Feld mtx

BFD 426 N 10-15 E 78 SE Coarse porphyroblastic gneiss with medium grained granular layers contact zone ?

7/17/95

BFD 147 sap of cg pb granitoid Feld pbs up to 3/4" across

BFD 148 gray pipe clay and qte in stream bed

Flow structure unit is felsic in composition as opposed to dk granulite at last OC
Good Fieldstop for photo
BFD 461 Fresh OC along fenced drive
N55E 83 SE comp layering wh/pnk Feld blk bio layered gneiss —
BFD 462 Very cg feld pgs [illegible]
N 55E 70 SE leucogranitoid gneiss
BFD 541/N60E 70 NW coarse bio sap rod clay soils
BFD 542 N10E 82SE med grain myg gran layer in bio gn
BFD 543 N35E 30 NW N35E 80 SE banded pnk/bk bio gneiss sap myl fol dip SE
BFD 473 N80E 40SE fg bio gran gneiss, massive bedd
BFD 481 N5E 30 SE myl fg in leucogran gneiss

saddle Jbd or Meta diabase (123)

BFD 124 2' dia bldrs of med grained diorite - granodiorite. Sacharoidal qtz vein float to top

BFD 112 med cg charnockite bldrs

BFD 113 mgl chips in track

BFD 114 coarse hypidiomorphic granuldr hyp granodiorite bldrs on track

BFD 125 a Few Flagstones of mylonite float on this node also qtz cobbles, some rounded

BFD 251 gray silty clay in basal? Flood plain deposits

BFD 252 red mottled clay with qtz and sheared bio granulite gneiss cobbles in

BFD 153 (4a) N50E 85 NW Foliated micaceous sap (phyllonite?)

BFD 1410 N40E 72SE soil profile in septic test pit behind house site
soil lt gray - Fine sand with angular qtz cobbles and pebbles 0 - 12"
soil orange - pink clay silt, cracked due to shrinkage 12 - 60"
saprolite dusky red - brown qtz segregation bnds, bio residual bands - mylonitic fabric

BFD 111 well bore cuttings - dk gray bio sch/gn/myl.

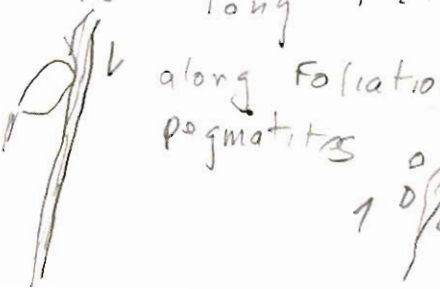
BFD 121 cg charnokite, massive ledge at drainage
greenish Kspar, gray greasy qtz, brn - grn pyrx/uralite
hypidiomorphic granular text.

BFD 122 cg hyp. gran. charn. to Aop, Fg mafic bands, g

BFD 161 N60E 45 SE my Fol in coarse bio augen gneiss (Lovingiston) saprolite in culvert cut.
BFD 131 N60E 45 SE boardy weathering blk + white bio augen gneiss

BFD 132 N40E 65° SE coarse porphyritic biotite granitoid with carlsbad twinned kspar phenocrysts up to 2" long protomylonitic Fabric bio schloren or tabular xenolith up to 18" long 1"-2" thick sinistral movement along Foliation purple qtz-bearing pegmatites

GOOD FIELD TRIP STOP



BFD 241 mylonitic or Granulitic? coarse blk and white banded gneissic saprolite. Blk bands are biotite / opaque mineral rich white is qtz ofeldspathic. Blue qtz rich pegmatite bands, OCS on old road in woods look like bio/granulites

BFD 242 N40E 75 - 80 steep mylonitic foliation in sheared gran gneiss with ilmenite (apatite) blue rutile qtz segregations with strong myl Fabric gray green rock w/ red brn specks

BFD 243 N65E 60 SE lt brnish gry to pinkish gray mylonite gneiss Fine lamination due to qtz ribbon bands wrapping pink feldspar fish bio + mafics in dark bands

BFD 191 dk gray-gnis hgry bio schist or phyllonite
N 45E Co SE

BFD191 N55E 45SE Bio GN cg Feld p-clasts ~ 3/8 - 1/2"

BFD192 Stone piles on top of mosely mtn are coarse granofels, leucogranofels is a coarse blue qtz microcline meta pegmatoid (layers) intermediate to melanocratic granofels is a coarse granular agregate of rounded gray and purple qtz clebs, subhedral kspar and clots of green to black altered pyroxene (uralite ?)

BFD 281 N70E 75 SE mg Foliation in Sheared granitic gneiss Sap, gravel terrace above in ditch.

BFD282 N65E 65 SE mgl lagering in bio granite gneiss, large Feldspar porphyroclasts

BFD 132 contd

EW 72 S
2nd set / spaced clav

BFD 133 occurs ylw dike or phyllonite sap
↳ EN 53 S.

BFD 134 N80E 55 SE jointing or spaced
clcav. in coarse hypidimorphic granular
granodiorite - charnockite?

BFD 162 N40-45E 55 SE leucocratic
banded bio gneiss / granulite saprolite w/
qtz stringers } myl fabric

BFD 163 N40E 73SE bio schist band in leucocratic
banded gneiss saprolite ~ 50' deep powdery
very erodable when dry

BFD 922 N75E 75 NW bio schist in deep red gneissic soil/saprolite

BFD 1411 large bldrs of coarse epidote amp granofels — altered granodiorite some schistose with considerable pyrite Mr McCabe says wells are hard water N55E 38° SE 6PL #

BFD 1412 N55E 22SE Blastomylonitic schist pb's are feld + pyx from granulite protolith

BFD 135 N35E 50SE FRACTURE [illegible] IN COARSE FERRODIORITE — [illegible] bldrs + Oc

BFD 523 N45E 85 NW coarse bio augen gneiss

BFD 524 N70E 75NW bio augen or cg bio gneiss with smoky qtz leucogranofels, qtz musc ky skimmer agregates - spl in lach bag

BFD 553 on 745 Fine - med graine bio gran gneiss (leuco) with bio dike or my [zones bio seg layering N60E 40 SE dike ~ 60 SE dip

dike

BFD 544 N 70E 72 SE

BFD 554 N 30E 80 SE contact of mafic dike with bio augen or Flaser gneiss unit in washout

BFD 555 N 50 E 70 NW bio Flaser gneiss at culvert

BFD 571 new well in light gray bio granite.

BFD 681 bio flaser gneiss lineation - Feld pbs S 60E 60°

BFD 921 N50E 40 SE augen gneiss, bio wraps augen plunges S10E at 60 culvert undermined and collapsing

BFO561 N 35 W 45 NE med grained massive biogranite gneiss ~ Bassett – bio grade granulite gneiss penetrative bio Foliation, granoblastic texture

BFD 551 N55E 60 SE 6'' qtz vein in pink-orange gran gneiss saprolite

BFD 552 N 20 E 75 SE N 30 E 75 SE 2 cleavages in massive med to coarse bio granite gneiss 100' OC – good quarry site, Field Stop

BFD 523 N 35 E 75 SE mylonitic bands in med-cg bio granite gneiss – massive, pavement OCS

N 10° W shear bands ~ vertical leucocratic layering

N 40 E – boudined

complex tectonic

BFD at Wynn Dixe N50E 65SE bio Foliation or crenulation in mod grained bio granite gneiss some layering? N 70E 75NW

BFD 291 ledge of med grained massive gray gran gneiss N55E 65 SE

BFD 531 saprolite exposed at retirement community coarse layered feuco granitoid (leuco granulite?) F1+

BFD 532 N5-10W 45SW coarse 6+W layered bio gran gneiss .biotite clumps surrounding feldspar - some relict igneous text? volc?

BFD 533 N45E 60SE myl Folia on feldspar pclast relics in sap bio myl layer dips steep NW 85

BFD 611 coarse bio gneiss with mylonitic dikes and mega boudin structures N70E 40 NW gneissic Folia N45E 60SE myl foliation

BFD 126 coarse ferodiorite / charn. bldrs in woods
red clay soil with ilm-mag sand wash in
road bed.

BFD 253 N 50E 32 SE coarse flaser gneiss
bio qtz Kspar plag, qtz is purple feld augen
strung out into continuous segregation bands
~ 3/8" thk

BFD 254 N50E 60 SE massive leucogranitoid gneiss
with lenses of blue quartz up to 2' long
and 3" thick penetrative mylonitic Foliation
later Fractures N60W across Fabric ~

BFD 255 N50E 35 SE strongly layered leuco
BFD 256 granitoid gneiss - blue qtz intergrown with white Feldspar
thin discontinuous mafic bands, Foliation defined by qtz-feld
pods - Lag?

BFD 257 Course bio Flaser gneiss N 60E 55 SE
Beneath Power line

BFD 341 N55E 45 SE Mg Foliation in blw bio augen/Flaser gneiss sap

* BFD 342 N60E 65 SE Foliated bio gran gneiss
E sap. highly eroded in steep road embankment

BFD 343 N70E 48 SE coarse bio gran gn/sheared granite

BFD 231 Very coarse augen gneiss/granulite mostly qtz + Feld little bio augen 1" long

BFD 232 bio augen gneiss zap in phone line cut N 10E 65 SE strong Seg banding. Coarse gr

BFD 233 med gr bio granulitic gneiss - "blue gran" in well cuttings

BFD 612 N65E 52° SE myl fol in dk bk/gry bgn gn sap

BFD 641 at Liberty lake pk N35E 25 Vert bio Fol. in bio rich zone gneiss

BFD 642 N45E 62 SE [illegible] vein in orange pink bio gn sap [illegible] ~~Right~~ left Field Fence

BFD 643 N45E 75SE OCS of sheared granite and bio gneiss in stream below small dry (swampy) pond

BFD 682 N 30W 45 NE bio sh/gn sap (Binocular)

BFD 651 N 35E 75 SE coarse leuco-mesocratic granite gneiss saprolite gry to pink sap tan mica soil very soft and erodable

BFD 683 medgrained blk/and white/salt/pepper bio gneiss in well cuttings

BFD 651 Poplar Park - Largest Tulip Tree in US (1972) 374" breadth 146' high 125' spread - good sap exposure of sheared bio augen gn in stream (leucogran blds)

BFD 221 granulitic bldrs (equigranular) round med grained dk grnsh gy grn feld + black pyx

BFD 211 N60E 64 SE rude granulitic sdg layering dark elongate clots of mafic minerals (mag ilm + pyx) in pink-white feldspar mtx

DCT 9 1995

BFD 621 N35E 65 SE Bio sch layer in red bio grn soil/sap, musc qtz FH

BFD 622 N10E vert 6" qtz vein red clay silt with black sand wash

623 N55E 65SE Another bio sch w/2' qtz vein 115

624 N55E 65SE dk bio grn sap feld augen

625 Fire Tower NATIONAL PK SERVICE order 8/1066 bio augen grn blk

BFD 133 ledge of med grained gray to light gray granulite with sheared zones and coarse leucozomes Potential Quarry site except for subdivision above
BFD 134 road cuts deep red clay subsoil with potato sized qtz cobbles - Td

BFD 722 spectacular pavement exposure of at Least 10000 ft² coarse strongly layered granulite gneiss "Flinthill"

BFD 761 N60E 55 SE coarse porphyroblastic gneiss with mylonitic Foliatio mylonitic Zones

BFD 163 N55E 50 SE med Fg grayish gray bio gneiss saprolite - looks like mylonitic granulite land owner 586 9189.

BFD 131 N45E 52 NW very closly laminated (cm scale) pink to brnish granite gneiss dark bands, pink feldspar, Blue Qtz granulite Very pretty

BFD 132 N70E 75 SE myl Foliation in sheared granulite Led.

BFD 283 N 70E 77 NW medgr comp banded
gran gr ... to purple ... ~30 erodable
powder sap, soil piping extreme lt grg to pink

BFP 613 N35E 65 SE layered gneiss (biotite), mmse
similar to float on Fire tower Road

BFD 625 N60E 30 SE spl of med Fine bio
granite gneiss - granulite acicular clear
mineral on joint face Zeolite?

BFD C

BFD 661 N55E vert bio/musc schist, 2 peg dikes with blk bio books, qtz vein in pink gran gn sap

BFD 662 N 15E 15 SE MN slicks strike B45W plunging SE down to SE, cutting coarse, mylonite gneiss sap in borrow pit 30 x 100 x 350' N45E 75NW my Fol, mafic boudins, peg boudins - large deformation zone

N65E 75 SE

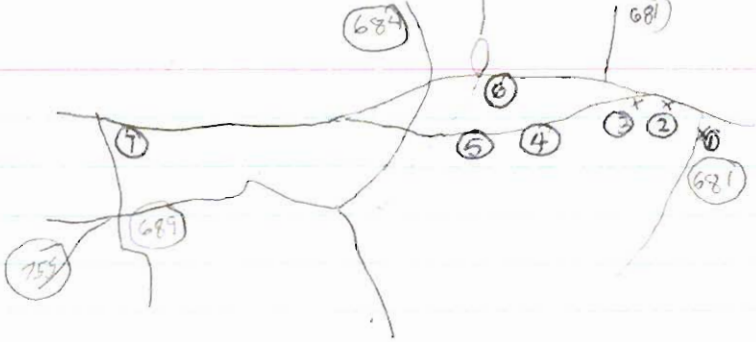
BFD 632 N 70E 65 SE coarse mylonite gneiss (bio sap, pink gran stringers.

BFD 633 N 75E 75SE my Foliation in coarse med grained s/t & pepper granitoid gneiss

BFD 392 N65E 55 SE S70E50 LIN Coarse bio augen (B&W gneiss with strong my tex.

BFD 292 Borrow pit in leucocrat gr with mafic sill contact exposed N50E 60SE my Foliation

6/26/95



BFD151

546
① deep red orange clay soil with white qtz gravels. Leuco granite gneiss / myl in road base at intersection 681/460

BFD152

② deep red orange clay sub soil / some smooth rounded cobbles of qtz / qtzite.

BFD153

③ N55E 64SE paper thin orange mica schist partings in gneissic saprolite

BFO 144

(4) N 60 W 25 NE comp-Seg in leuco granofels - blue gray qtz blebs Exsol. in white weathered feldspar - Hard rock in creek bottom Just above

BFO 145 Driveway

(5) N65E 15 SE Mylonitic Foliation in med/fg qtz fed mica sch/gneiss (Mylonite) outcrops in stream bed Mottled brown saprolite - looks like metavolcanics. But occassional less sheared blocks reveal a med-coarse

BFD 841 N60E 75 SE coase mylonite gneiss shows Flaser structures qtz bio gneiss comp

N70E 80°SE Coarse bio augen gneiss

BDF 851 N60E 70 SE Foliation in red brn gneissic sap. N80W 80NE bio minette? mafic dike cting gneiss

BFD 831 N75E 65 SE granitoid mylonite gneiss black bio tite bands deep red soils

BDF821 N50E 64SE amphibolite, dk grn-black in bio gneiss saprolite. Stream contains minable qtz bldrs in green clay mtx some granulite bldrs coarse hbl bio gneiss up stream then granulite

BFD 714 red brown silty clay soils on cleared lot, abnormal -10% concentration of heavy minerals in upper soil profile IRV 962
Coarse porphyroclastic mylonite gneiss with polyxline Feldspar qtz porph. up to 2" by 1/2" could be rift
Cacks m. ogl? or just porph mylonite

IRV 9

~~BFD 741~~ N55E 52 SE coarse porphyoblastic mylonite gneiss (610) OCS adjac to deer stone
BFD 723 N40E 75SE Banded and Foliated massive pyroxene diorite gneiss saprolite

BFD 763 N10E vertical mafic dike cuting b&w or pnk + bk med granitoid, blocky joints

porphyroblastic granofels layers with rounded porphyroclasts up to 3/4"
Fresh material is dark green with orange to pink feld porphyroblasts
Oriented Sp
N80E 45 SE Fracture cleavage
mylonitic layering N65E 45

BLACK SNAKE WITH BANDING

(9) N80E 45 SE streaking lineation in phyllonite porphyroblastic mylonite
S45E 30SE

(10) N50E 70 SE Coarse gray granite mylonite
Could be sheared chromatite

(10) (6/26/95 - 1)

N50E 55 SE

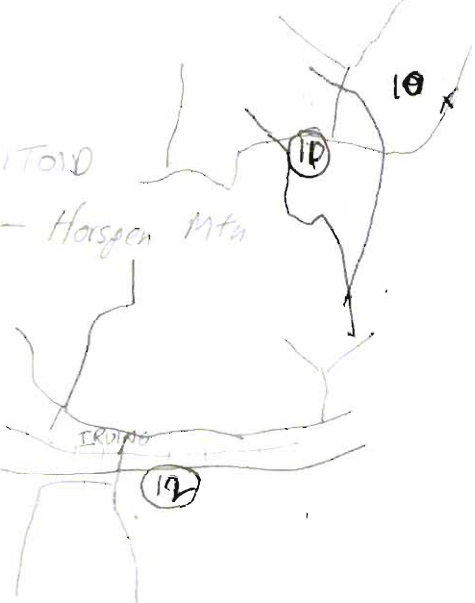
Coarse GRAY GRANITOID

BLDRS / Bio / Kspar - Horsepen Mtn

Suit.

(12) (6/26/95 - 12)

N65E 55 SE coarse bio granite, mylonitic foliation, fine mylonitic layers but definately a coarse, massive plutonic granitoid body ~ horspen mtn or ?DOP



BFD 822 N 50E 15 NE coarse bio schist saprolite
weathers brown chunks of hbd gn in stream
schist crenulated
BFD 823 N 70E 52 SE hbd layer in dark
hbd bio gneiss ("black rock")
BFD 824 N 70E 60 SE med bio sap (schist)
3' white qtz vein with mica growth on
contacts
BFD 825 N 60E 60 SE 6" amp bed in red
micaceous clay saprolite

382-2951

BFD 821 N 15-20E 75 SE Myl Foliation in massive
coarse grained blue qtz bearing bio/amp granulite
Some relict granulitic Fol. N 10W 80SW - elongate layers of mafic

BFD #22 coarse porphyroblastic granulite gneiss
Feldspar xls up to 2" x ½" strung out along
Foliation granular green pyx in seg layers N20W 45NE
Good Field stop Spl OF fresh rock blasted from
bridge site has drill holes
BFD #61 N20-25E 70 SE Mylonite (Fine grained greenschist
band cuttin coarse b+w saprolite that looks like
metachamokite or coarse granulite
BFD #62 sap of layered granulite beneath
road base course - green and white or pink banded
N20E 70SE

BFD #31 N70E 57 SE mgl bio gneiss in stream
beneath bridge bridge was overtopped during
Flood of 95
OC bg Fence has mg bands N55E 85 SE
and segregation layering as result of protocastic

BED 891 AUG 10 '90

Interbedded mica schist/gneiss saprolite and f-cg amphibolite beds strike NW Foliation NE

BED 892

Exposed in 4' deep ditch is deep red saprolite of terrace. About 2' down deposit has a mottled structure. Some mottles are composed of coarse feldspathic sand which has not disintegrated

BED 971 occ. of mod-fg gtz bio gneiss fine seg laminae 3' or bigger blebs or lenses granulite, many pebbles size of musket balls

BED 982 dike, med grained bio granitoid, garnets (rose red in margins, Country rx c bio gneiss

BED 983 layered gneiss with many [illegible] fragments [illegible] fails look like augen except have sep foliation

BED 894 layered [illegible] [illegible] [illegible] [illegible]

BED 985 Layered Gneiss (Moneta) Aug 10 1990

Mafic layers 2-3" thick show interfolial folds

Faults

N30E 50 SE layering

N80E 35NE hinges

BED 986 Diabase dike - sills in hollow

a - D.-703 -982-8204 - 103 961 2231-5670

Bedford City Geology

Answers To Gene R.
Figure - 11/17/95

BFD 2011 med gr grg gran gneiss
BFD 611 Cg bio gn w/ my dikes N 70 E 40 NW
Bio Sch N 45 60 SE

Unit in Bedford city med - Cg bio gn (Lage
± large Feld porphyro blasts

± Mylonitic Foliation

± relic pgroxe granulite Mineral assemblag

Prob Relict Volcanic Unit

Bed 951 August 1 1990

Strongly layered bio gn N55E 75 SE qtz tension Veins

BED 3-9-

Aug 9, 1990

N45E 80 SE sapcrop of coarse, layered gneiss at water meter

BED 392 white quartz cobbles in cly soil = to

BED 381 Terrace deposit along 221 at old Gray Ho

C trailways Warehouse

BED 392 N70E 70 SE coarse porphyritic granito

gneiss oc behind Rouco drug, b'drs surround

parking lot dk amp [illegible] in front

may be from a dike

BI 781 on cabin Ck by bridge N50E 75 SE mylonitic Foliation in green mylonitic granulite gneiss 51

BI 812 Med - cg granulite - New Cut on 301 spls
N40E 77 SE Comp layers

BI 813 N30E 75 SE coarse mylonite gneiss / bio granulite
mylonitic Foliation ll comp banding

BI 814 N40E 78 NW SGG - cg granulite Fabric lepto[illegible]