· Henry Singletery

Sept 2 contd RDW 953 contd

WP 0053 contd. — Spl of epidote qtz act rock

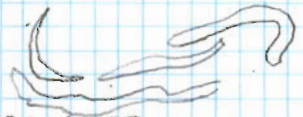
RDW 981 N65E 50 SE thick act schist amphibolite ledges abve very thinly interbedded mica and actinolite schist in stream WP 054 N 37 00 848 W 79 45.964

RDW982 N45E 30 SE thin layered act schist in prominent ledge (photos) 056 3700809 79 45 908 spring branch intersects main creek

RDW991 N60E 22 SE photo of metatuff with SE facing interfolial parasitic folds indicating SE facing in this area. WP 057 N 37 00 786
W 79° 45 .784

RDW 992 N60E 5° Folded pillows
Hinge of Typ 3 recumbent fold interference — photos at WP 058

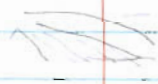
37° 00 781
79 45 735



RDW 993 Way Point 059 N 37 00 . 657° N54E 64SE layering
W 79°45.745
CALC sil qtzite, white qtzite, burrowed

WP060 RDW 994
N80E 40 SE layering in act sch on
Timber Ridge N 37° 00 462'
el 1084 W 79° 45.764'.
RDW 995 el 1047'
WP 61, 37° 00.488 79° 45.656
red brown soil w/act Schist chips
pebbles and cobbles
RDW 996 1' thick white thin bedded
"Pinstriped quartzite ledge photo

Sept 10 2004
RDW 981 N45E 68 NW
N40E 78 SE small anticline
in alligator back Czas
unit 1 Flood plain Active 9/8/04
RDW 982 WP 062 N30E 76 SE Cleavage
In Lyg Cache Mica Gneiss Sap
in Stream Bottom - apparent
layering @N 37° 00.624 W 079 45.954



Photo

All coarse mica sch gneiss and
peg Float in Stream = Ash

RDW 983 N 70 E 36 SE Comp layering
in graded bedded meta grit
(Photo) Qtz pods along bedding
[illegible] [illegible] right side up
Sinistral Fold Symmetry
Cleavage N50E 70SE WP 063
N 37 00.563 W 079° 45.991'
Fabric in cg metaarenite ↑20
steeper flow folds
S40W 20 SW PHOTO
RDW 984 N80W 20 SW coarse mica
gneiss pavement in stream bed
@ WP 064 N 37 00 529 W 079 46 045
RDW 985 N 70E 70 SE Fol in act sch
red sap rock embankment @ WP 06[illegible]
37° 00 577 79° 46.216
RDW 891 N 60E 60 SE layering / schistosity
in sap of amp schist - deep red clay
066 37 00531 79 47.673 Photos
Showing Sap Soil & Cobbles

BM

Nov 8 '05

RDW 816 coarse grained med lite gray to black and white muscovite biotite gneiss (old moneta) pebbles are qtz and feldspar in more siliceous body

N 37° 02 26E W 79° 49.375

N75E 50 SE - com layering widely spaced joints 320 80 SW

RDW817 Flaggy, schistose to massive muscovite biotite schist - gneiss pebbly metaarenite ledges in left fork striking E-W 50s widely spaced joint planes 340 60 NE — Mesozoic basalt black, fine grained vitreous or concoidal fracture — Gldrs in stream bottom

RDW 818 N 37° 02.023'W 79°49.398' el 1156 GPS 1g poles of white quartz (Angular blks) + coarse pebbly mica gneiss + WP 006 Massive gray coarse pebbly mica gneiss ledges in stream + 20ft W of stone piles

NOV 8 05' RDW 819 007
N 55E 62 SE ledges of light gray
coarse biotite muscovite pebbly gn
widely spaced joints 145 70N
N 37° 01.922 W 79° 49 342
RDW 8110 N 40W 30SE Massive
pebbly beds of qtz musc-bio gn
ninges or fold million S40W 30
WP008 N 37 02.051 W 79°49. 132'
RDW 8111 N 70W 30 SW lineation (stretched
pebbles S20W 25 coarse metagraywacke
Photo of gentle NW Dip
N 37° 02.098' W 79° 49 149
NOV 10'05
Walker Fm RDW 851 terrace
white qtz cobbles sndy wh
topsoil
RDW 844 Trench Silo by old barn
~ 5' deep terrace gravel ~ 1'
deep red clay subsoil 4' - brown
mica silt loam below = lyg
saprolite at WP 010 N 37 01 552
RDW 845 WP 011 W 79 49 198
N 37 01 666 W 79 49 245 - large angular
blocks of coarse pebbly qtz metaarenite
along steep slope = Zam N55E 70SE
thk bded Zam ledges in creek
~75' SW

311/06 amp float in woods @
RDW 889
RDW 8810 photo of thin layered
mica schist in stream N
with qtzite boudins, small
intrafolcal folds N50 E 80NW plunges
layering N20E vert crenulation 530WSSW
@WP 081 N 37 00.439' W 79° 48.632'
near fence corner
RDW 8811 ledge of mass MGW EW 30S
RDW 8812 N50E 75 SE just below dam
in stream (100yds) dark green amp
schist/gn at Wp 082 N 37° 00.457 W 79° 48.425'
RDW 8813 305° 15SW interbedded medium
thickness qtz rich metaarenite
and silvery gray mica schist WP 083
N 37 00 564 W 79 48.620
RDW 8814 N70E 20 SE resistant amp
gn ledge forms water fall @WP 084
N 37 00.619 W 79° 48.634' Photo
RDW 8815 N60E 64 SE dk green act sch
interlayered w/ light gry - white feld.
gneiss - metatuff? @ WP 085
N 37° 00.695' W 79° 48.617'
RDW 8816 photo of mica sch ledge
in creek N50E 70 SE foliation - chlt rich?
WP 086 N 37° 00.711' W 79° 48.612'

15.2
4.3
19.5
6.0

3/01/06 RDW 8817 photo of 62 My banded gn sple WP 087 N 37.00.742 W 79 48.615
RDW8818 N 70E 62 Banded mica gneiss in stream @ wp 088
N37 00 795 W 79 48 584
RDW 851 photo of Schistose sap crop in Embankment @ WP 089
N 37° 00.936' W 079°48.667'
Comp layers ~ 1/inch N 70E 68 SE
Cut by gentle faults
N10E 25 NW
drag looks Rt Lat

RDW 8819 Mn Gneiss
cemented w/ MnO - wad
photo layering foliation
Foliation N70E 65 SE WP 090
N 37° 00.716' W 79° 48.902'
RDW 8820 N70E 75 NW pebbly myr ledge, big marshy area, several seeps - pond down stm WP
RDW 8821 N 60E 64 SE silvery gray mica schist sap crop at dam
WP091 N 37° 00.577 W 79 48 797
mica Fish - graphite spots - photo of eroded spillway area in mica schist saprolite

3/01/06

ROW 876 340, 55 NW coarse hornblende gneissic layers Crossing main tributary to Pigg River N 37 00 509 W 79° 49. 977'

ROW 877 WP 095 N 37° 00 .494 W 79° 49.84"
lg blks and ledges along old Road - possible quarry site!
Amphibole schist ledges down stream N 25 E 60 NW Foliation

ROW 878 WP 096 N 37° 00.467' W 79° 49. 834'
Old mill dam site logs in Creek Stone abutments

ROW 879 N 50 E 75 SE ledges of thick bedded light to medium gray meta-arenite @ WP 096 N 37° 00.453 W 79° 49. 806

ROW 8710 N80E 25SE ledges in meander Fine - med grained light gray - silvery weathering pinstriped meta arenite gn N 37° 00. 469 W 79° 49. 747'

ROW 8711 N 60 E 55 SE thin bedded or banded meta - arenite gneiss poss. marble beds but highly resistant ledge WP 097 N 37° 00. 249'
W 79° 49. 651'

3/01/06

RDW 822 N55E 55SE banded qtz mica (carb) gneiss ledges, massive NGW in stream bed down stream

RDW 823 N65E 18 NW garnet amphibole gneiss ledges along ridge N 37° 00.377 W 79° 48.921 lineation S10W 7° SW

RDW 791 N60E 25 SE actinolite chlorite schist (greenstone)

RDW 873 Medium to fg epidote amphibolite - hbl or actt plag + epidote green and white granoblastic elongate text amphibole is bundles of grn needles

WP 092 37 01 732 79 50 007

fold - 40%
hbl - 40%
epidote 15%
magnesite 5% + other White or clear

RDW 874 N70E 40 SE foliation in greenstone coarser amp folders

RDW 875 N40E 67 NW med gr hbd gneiss w/ feld layers up to 3mm

WP 093 N37 00.584 W 79° 44.879

4/20/06

RDW 799 massive medium gr hornblende gabbro or amphibolite in stream

RDW 7910 layered hornblende gneiss N40E 74NW leucocratic banding

RDW 7911 much micasch/metass in bed load, blocks of mafic, some fine grained basalt (tr or Jr) N 37 00 6C6

RDW 7912 big lgs blks in W79 50.598 barn Found

6/29/01 N63E 40SE cg brn weath micaceous gneiss

RDW 661 or meta arcose

RDW 662 N55E 70SE camp layering facing SE mica schist gneiss [illegible]

small fold hinges

RDW 663 N[illegible]E 25SE massive mica gneiss ledge on E side of river, camp set up

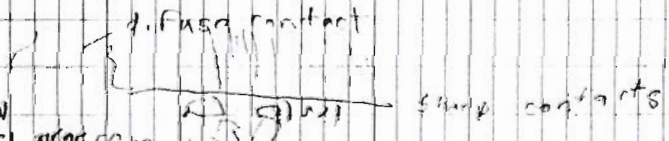
RDW 654 N[illegible] [illegible] in mylonite bio gneiss with highly [illegible] qtz rich [illegible]

EW 40 N

First ledges [illegible] river trending N45 [illegible]

RDW 653 very coarse leucocratic granite pegmatite [illegible] ? Makes 50' wide ledge [illegible]

RDW 652 Rapids on Blackwater ~ 2' drop across mica schist rock garden schist is coarse sparkling gray with cross cutting quartz rich pegmatites ~ E 60 70 SE



RDW 651 N50E 60SE mica gn [illegible]

1/05/06 Redwood
RDW 165 amphibolite Flt along
4 wheeler trail at WP 48 37° 01.551 79 50 629
1/10/06
RDW 441 above barn in woods
large qtz mica gneiss block
(Ashe meta Arenite, red soil

RDW 442 FW 45° S coarse
metarenit ledge (musc bio gn)
With 2mm orange pink qt
massive - tk led
RDW 443 V coarse amphibolite
ledge on hill side N 80 E 45
strong linear cedar trees in woods
RDW 444 4' dia coarse amphibolite
boulders on nose of ridge
above trail
RDW 445 qtz vein crossed along
trail ascending side drainage
toward Sandy Ridge Church
N 65 E 60 SE compositional layering
in saprolite exposed along
cut bank (photo) hornblende or
very mafic bio gneiss with
felsic interlayers

1/05/06

RDW 738

metarenite ledges in stream
at WP - many cedars in Flood
plain - calc or mafic source?
WP 45 37 01 828 7950 370

RDW 739 N 75 E 60 SE compositional
layers - stretched and flattened
gray & white quartz pebbles
along mylonitic foliation
WP 46 vein qtz in ck Photos
of ledges 37 01 .927 qtz w/mica
RDW 7310 79 50 .366 peg?
N 85 E 70 SE dk reddish yellow
mica sap w/ black mn stains
- mica schist?

RDW 7311 N 75 E 55 SE massive
bed - ledge in Blackwater
at WP 046 el 829 N 37 02 .163

RDW 7312 - sand pack W 79 50 .326
of small dogs - one litter
Ocs of mass - to thin bedded metarenite
ledges in stream N 85 E 50 SE photo
WP 047 N 37 02 139 W 79° 50 .496'
el 977

RDW 7313 N 80 E 10 SE cg pebbly, trace
metarenite much qtz Float - valley fill

N 37 02 096 W 79 50 678

May 3 '06

RDW 776 WP 180 N 37 00 171 W 79 52 194
Fine sericite saprolite ferruginous
Float looks like banded Fe sa
or gossan
RDW 777 N 75E 55 SE white grn
and brown pinstriped qtz wack,
muscovite schist chips: Graphitic qtzite
RDW 778 N 50 W 32 SW graphitic
schist / mgw w/ strong pin stripe
lineation intersection cleavage
and bedding
~~S~~ 55 E 35 SE hinc
RDW 779 coarse red brn orange amp
saprolite in SB lane WP 180
N 37 00.347 W 79 ° 52 .290

RDW 7810 ledge in bank
below fence line 300° 50 SW
med gr mica gn / meta graywacke
lineation 240° 40 S
RDW 7811 E W 30 S thin bedded
mica sch / my w

RDW 792 amp schist / gneiss
st 300 dip SW 35
rodding lineation S40W 36°
N 37 00 487
W 79 50 523

793
RDW 792 N 80W 60 SW thin bdded
to slaty pyrite rich quartzite
in stream below bridge N60E 30 NE sinistral fold hinges
N 3700 .491 W 79 50 196

RDW 794 Amphibole gneiss N 70 E 60 SE
RDW 795 Amphibole gneiss strong linear
fabric N 35 E 30 NE
RDW 796 N 70E 58 SE folded quartzite
interbed then graphite meta siltsn
RDW 797 290 34 SW cg hbd gn
w/ lecozomes
RDW 798 300 35 SW cg hbd gn
some leucoratic layers

April 20 '06 behind Wall Mart

RDW 741 fine silvery mica schist sap + soil in parking lot. Good rnd qtz terrace cobbles above parking lot @ 1'

RDW 742 coarse mica schist sap with 1' qtz vein N 45E 85 SE NE corner of Wall Mart Lot

RDW 781 sandy top soil & cobbles of qtz some rounded

RDW 782 mica gn/sch sap 285° 50 S

RDW 783 blks of med gr sap [illegible]

RDW 784 white qtz cobbles on td in woods ~ 15' above qual

RDW 785 N 80E 45 SE in stream ledges of silvery gray mica schist and gneiss

RDW 786 320° 20 SW coarse trem chl sch

RDW787 N 40 W (320) 60 SW laminated graphitic meta siltstone in creek bank below road crossing

RDW 788 N 80 36 S at pump station good exposure alligator back mica gneiss

RDW 789 N 80E 85 SE lin S 60W 40 SW - 30 SW coarse pebbl cyl - qtzite pbls pink feldspar

Nan 03 06

RDW 725

light gray to med N75E 45 SE comp
gr coarse pebbly qt 610
gn w/white qtz veins

RDW 726 N 70E 52 SE schistosity
in coarse metagraywacke gn, massive
bedded - strongly foliated @ WP 38
N 37 01 .981 W 79 51.480 Flat appressed similar folds S40W @ 20 ft

RDW 727 N70E 32 SE fine - mg
metagraywacke at head of flood plain
cedars in field downstream - Mafic Rx?

WP 038 N 37 02 .088
W 79 51 .471

WP 039 Big Spring in concrete enc.
below old house @ qtz vein
next to spring (58')
N 37 02 .134 W 79 51 474

11/30/05 WP 021 CCD 431

el 1085

N 37 00 937 SPL of Coase

W 079 52 497 sillimanite Sch

01/03/06 Clear, Warm ~ 50°

RDW 751 N 20W 80 NE 6' qtz vein

in creek along sewer line meta

gray wacke rt in stream bank

3' gray silt w/ gravel above vein

RDW 752 N 80E 45 SE, EW 25 S

Flaggy to thk bedded mica gn/mgw

old stone spring enclosure on

rt bank below old house at

WP 034 37 01 567 79 51 32

RDW 753 N 60E 60 SE thin layered

mica schist/gneiss gray to

sparkling gray coarse mica blast

WP 034 N 37 01 630 W 79 51 436

trail crosses ct old tobacco barn

now cabin

RDW 724 N 75E 35 SE Flaggy

to thk bedded mica gn (mgw) WP 035

in gorge - very pretty area

N 37° 37.760 W 79° 51.467

10/27/05 955 N 45 E 65 SE cg mica rich
metaarenitic gneiss - new houses
across drainage
RDW 571 37 03 934 79 45 990
11/1/05 N 60 E 70 thk bedded
metaarenite ledges in creek
37 02 677 79 49 240'
inPs N 10 W vert 20 SW
RDW 572 Massive bcds of cg
pebbly mica gneiss, qtz-mica
pegmatite float N 70 E 70 SE
photo @ WP 489 N 37 02 625
W 79 49 168
RDW 721 white qtz bldrs very
leached silty loam soil
on residuum WP 490 37 02 498
79 49 022
RDW 573 N 70 E 66 SE lagering
in cg pebbly metaarenitic
gneiss Fold plunging
SW at 20 SW Foto

RDW 711 N 70 E 65 SE
course graywacke gn
37 02 527
79 49 398

10/27/05

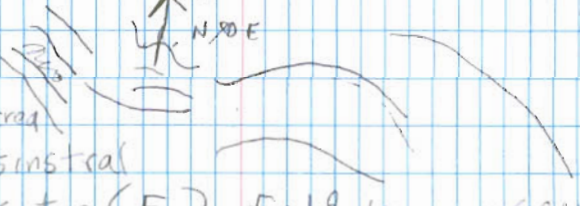
ROW 668 E-W 74° S thk bded btw mica gn / grey mica schist + stream bed at WP 483 N 37 04 218 W 79 45 599

ROW 669 massive to thk bded ledges of coarse meta arenite w/ 5 mm quartz pebbles - Photos SPL at WP 484 N 37° 04.160 W 79 45.626

ROW 6610 N 70 E 58 SE photo of mica schist ptg in massive bedded metaarenite ledge just below intersection of two streams at WP 484 N 37 04 117 W 79 45 671 - good FW stop just below 4 wheeler trail

ROW 6611 N 50 E 36 SE (upstream at WP 485 37° 04.040' 79° 45.753' thk bded - massive meta-arenite gneiss

ROW 6612



hinge area broad sinistral parasitic (F_2) Fold in massive to thk bedded meta-arenite WP 485 N 37° 03.884' W 79° 45.859'

RDW 255 excellent site
at intersection
of streams, edge of 1/2
acre clearing, clean water
in both streams

(6)

(7) RDW 257 dry stream, qtz Flt

June 4 2002 Burnt Chimney
4 intersections. Located
in field. Staked one
(VDH Robert Derbrick) which
is 1000' NE of dry hole
location staked is at
inflection on left bank
of stream. Stream becomes
wet ~200' below. Soil
tone and moisture was wet
at site indicating soil
is conducting moisture
stream (RDW 252)

June 4 2002

RDW 251 well in bio hbd gneiss
Location of Bowman Cremerg #1
RDW 252 Proposed alternate loc
RDW 261 N50E 25 SE cg
gt bio gneiss 6' whale
back OC at edge of
al
RDW 262 N80W 60SE
coarse black and orange mica
saprolite — much manganese
possible marble? Mylonite
gn or schist
RDW 263 good well site
above stream at intesectron
of N15E linear and
N80-85W linear just below
road on point above 36"
oak that has fallen
undercut by stream
RDW 253 block of coarse grey
meta sandstone in drain at
edge of field Coarse mica schist Flt
RDW 254 N 50 E 42° SE lineated
schist/gn ledges crem

Jan 18 '05

RDW 524 - Big ledges of thk bded
med gr metaarenite N 85 E 20 SE
WP N059 37 04, 608' N 79 48 643

RDW 525 N 70E 75 SE WP 060
N 37 04 552 W 79 48 597

RDW 526 WP 061 N 37 04 501
W 79 48 573

Coarse hbd amphibolite "metagabbro
granoblastic texture 10 mm hbd
in epidote qtz albite mtx
— bldrs up to 6'
large ledge on hillside
- qtz vein in grk

RDW 527 - 20' wide leges of
Coarse massive bedded metaarenite
grits N 60 E 45 SE

RDW 528 WP 062 N 37 04 388 W 79 48 557
Coarse amphibolite ledge 100 x 15'
on hill side blocks in
valley possible offset along
qtz vein above?

RDW 529 WP 063
N 70E 50 SE thk bedded ledges
of hard metarenite grits. Good
Quarry Face above

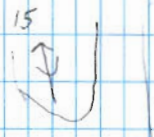
Jan 18 '06

ROW 285 at road large blocs of amphibolite in embankment, WP 055 N 37° 05.177' 79 49.285' N65E 75SE schistosity in which strike along road embankment to S —

ROW 286 N 65E 75 SE layering in coarse amphibolite saprolite + thin qtz veins logging operation down stream

WP 056 37 04 944 79 49 052

ROW 521 N35E 35 SE med-cg metagraywacke ledges crossing creek bed, much vein qtz in stream shallow plunging fold



ROW 522 N50E 55 SE brown mica gneiss (calc?) saprolite in stream — Arch Marble like color and texture

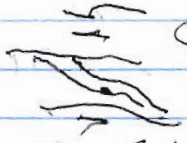
WP 057 N 37 04.763 W 79 48.761

ROW 523 N 20W 10 SW near flat ledges of thk-med bedded metagraywacke in stream WP 058 N 37 04.697 W 79 48.701

S

plunges 60 40°

strike



(6) N 68 E 40 SE

Coarse mica qtz fold gn

of Fence

Notes on Burnt Chimney
Well location - Contd.
Homestead Cremery
Existing well less than
5 gpm. currently trucking
water to site.
First new well drilled
about 40' off center
in drainage below Cremery
600' dry hole in Hbb -
bio-gneiss of Moreta
2nd new well ~ 300?
near by uphill about
200' NNE of first well
hit porous zone ~ 100'
but was full of gut and
"black stuff" may
be weathered mn rich
carbonate? in Sap
outcrop at RDW 262
Possible clean out job?

Loc RDW 263 at or near
stream intersection is very
wet [illegible] - major lineament in

ROW 961 New Well in qtz mica gneiss coarse mica flakes (pegmatite)
WP 022 37° 05.762
79° 48.139
ROW 961 N40E 60SE coarse Mica gneiss 37 03 326 WP 023
79 45559

Aug 26 '04
ROW 961 WP027 37°61.504 79°44.941
N56E 60 SE Cg Gray to silvery gray mica schist and gneiss OCs along road
ROW 962 WP 028 Thin bedded salt and pepper textured meta gray wacke in stream east of road crossing
37° 01419 79 44.946 2 photos
Good OC for MgW
N70E 30SE 50 transposed S40W 10SW 1in (5.X 50)
ROW 964 WP
N54E 36SE thin laminated to thin bedded "P.n striped mica gn/sh (mgw unit in Stream 2 photos

August 24 2004 Redwood Quad

RDW - 271 Waypoint 017 at entrance to old Liberty Cemetary 100' bank in mica gneiss / mica schist Saprolite
37 05 202 79 44 583 N65E 80SE
Mica schist band in gneiss

RDW 272 Way Point 018 37° 05.241' 79° 50.112'
dark red sap at end of Road Mst
Vein qtz Float. Rounded Qtz Cobbles
in Woods ~ Td ~ 1' thick

RDW 273 N65E 75 SE Mica schist band in Mica Gneiss Saprolite exposed in new Road embankment near corner of OLD LIBERTY LOT 4
WP 19 37 05 019 79 49 662

RDW 274 WP 20 37 05 005 265' water 25 gal
WATER 79 49 764
WELL SPL OF CG GRY SPARKLIN. BIO MUSCOVITE GNEISS MED-FINE GRAINED garnet act SCHIST

RDW 5pt Well Loc on Lot 25 200' 40 gal
37 04 877 79 49 977
Black and grey mica schist w/ gneiss inter beds

RDW 528 N20E 50 NW MS Sap in bank S46W 10

RWD 1-1-1 10/24/90

. Spectacular Mylonite gneiss exposure, large porphyroclasts S & mylonites

...ent chimney.
Continued.
Contact was located between Monola Gneiss and Lynchburg gneiss as indicated on map.
Lineament intersection at RDW266 is also a strong site at edge of a ½ acre clearing accessible from above as well as from farm track indicated on map

RDW 254 is in open field across from stumps that are recently cut along field line to NE
There are two drainages at intersection one from SW and one from SE
Ledges of hbd rich sap are just up hill from intersection - Soil moisture was higher at intersection

3/7/06 WP 101 RDW 287
N 37 05.228 W 79 48.321
N 85E 80 SW Mica schist parting
in mica saprolite on driveway
embankment
RDW 288 N 70E 44 SE on parking
gray bio muscovite schist in
road embankment @ wp
N 37 05.202 / 79 48.337
spl
RDW 2810 N 45E 42 SE Mica schist
layers in medium grained med-lt gry
2 mica gneiss saprolite
in Foundation cut for log house
at WP 103 N 37 05.774 W 79° 48.329
RDW 531 N 60E 75 SE Foliated
Meta graywacke gneiss
2 mica w/coarse biotite + gt
pblasts up to 5mm (bio) 3mm (gt)
Ashe or old moneta Plag gneiss
SPL @ WP 104 N 37° 04.920
W 79° 47.635'
RDW 532 knob overlies coarse amphibolite
ledge (Moneta like) w/hbd up to 15mm
ledges N 80E 40SE shear cleavage or
mylonitic foliation along SE edge

3/07/06
Matt Davis [1] 580 2855

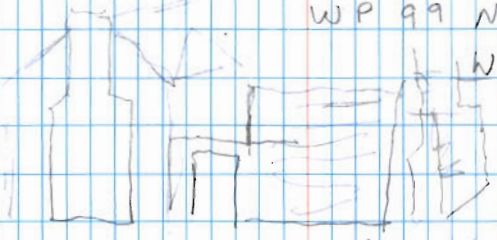
POWELL SOWERS — working behind new subdivisions SE of Burnt Chimney

RDW 287 new well behind new house at WP 098 N 37 05 518 W 79° 48.410

Cutting spl, Fg lt gray granitic gneiss [illegible] biotite schist layers

RDW 292 Dog Trot log Cabin now falling down, covered w clapboard sawn board door w/ cut nails

WP 99 N 37 05 598
W 79 48 225



No roof on smaller cabin
Ketchen Fireplace 3 x 6 big brick structure main house fire place bricks show dark gray burns or glass on faces (slag)

RDW 293 saprolite in stream bank orange pink and yellow orange banded clay N 45 E 40 SE comp layers
N 37 05 492
W 79 48 196

RDW 171 WP 130 N 78E 52 SE
N 37 05 415 lcg blo augen gneiss
W 79 51 760
Lineation N80E 15 NE elongate
K-feldspar porphyroclasts

RDW 172 WP 131
N 37 05 523 W 79 51 877
Pavement in stream, V. C.g. blo augen
gn N 60E 48° SE

RDW 173 lodges on hill side
N64E 70 SE lineation N84E 15 NE
WP 132 N 37 05 521
W 79 51 993

RDW 174 large OC in stream
below old Bridge - cg
augen gneiss @ WP 133
N 37° 05 . 487 W 79° 52 . 036
N 62 E 30°

RDW 175 N50 E 50 SE blo gneiss/mica
schist ptg lg pavement at WP 134
N 37 05 451 W 79 52 086
RDW 176 WP 135
Old Sink Com @ N 37 05 282
W 79° 52 . 173

3/8/06

Spillway to dam that is dry at WP 123 is in Ashe?

N 37° 04.390 W 79° 50.542

GOOD STOP 276° 15° NE possible bedding

cleavage 220 42° SW

RDW 191 N 55 E 50 SE massive gr med-cg metaarenite @ WP 124 N 37° 04.996 W 79 50.427

RDW 192 N 65 E 60 SE 6' massive coarse metaarenite beds in stream "Ashe" @ WP 125 N 37° 05.097'

RDW 193 pulley - Board W 79° 50.388

cem on hill WP 126

N 37 05 060 W 079 50 316 - 6 graves?

03/13/06 Found compass at RDW 192

RDW 194 coarse-grained muscovite biotite gneiss with medium-grained lithic pebbles up to 10 mm in diameter. Massive 6' ledges in stream N 37° 05.128

WP 128 W 79° 50.277

Foliation N 54 E 45 SE bedding

mish shallower ~ 10° ledges

Photo of bert joint @ 208°

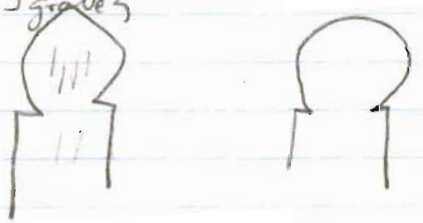
RDW 197 [illegible] WP 129

[illegible] 37 05 164 79 50 [illegible]

RDW 111 oc in old road right of way at Bridge relo site N 70E 50 SE Fine-med mica gneiss/schist

N50E 75 SE sparkling gray muscovite schist in gray to tan leucogranitoid gneiss saprolite - new unit or J soapstone

at least 5 graves

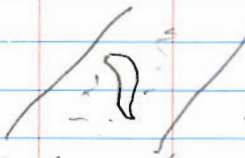


10/20/05

RDW 934 N

WP 461 37 02 46 79 45 696

Photos of clast in massive



amalgamated meta graywacke bed

fine laminitas above 3m cycles

WP 462 N 60 E 75 SE cg mica

gn/schist layering on point

WP 462 N 37 02 402 W 79 45 617

RDW 935 N 50E 72 SE layered hbd

gneiss/amphibolite WP 463 37 02 353

layering strikes thin-med beds 79 45 527

RDW 936 Fresh spl of hbd gn N 60 E

55 SE WP 464 N 37 02 353

Photos of Amp lens W 79 45 407

RDW 937 Photos of granitic gn

pavement - coarse meta arenite

beds - thin bedded to massive

with tight Fold hinges ant

S 55 W 9° SW

Forelimb N 45 E 76° NW

Backlimb N 60 E 80 SE N

WP 465 37 02 284 W 79 45 326

Prominant X Fract N 40 W 85 NE mineralized.

RDW 664 chl act schist ledge N60E65

RDW 665 N 60 E 60 SE thin bedded laminated meta arenite WP 456 N 37° 03.320' W 79° 44.906' cl 789

RDW 666 N 60 E 25 SE bedding in coarse meta arenite, burrows? weathering brn (carbonate?) along bedding (photo WP 458 37 03 446 79 45 431

Oct 20 2005 RDW931 Foul Ground ck at 834 ledges of dk greensh gray actinolite schist (greenstone) N55E 60 SE cleavage apparently cut by th-med bedding giving lineation? WP 459 el 892 N 37° 02.473 W 7945.863 on cleavage surface el 50' on sick then td ? to NE

RDW 932 N 60E 80 NW thin bedded chl act sch (greenstone in streambed at WP 459 N 37 02.456 W 79 45 816

RDW 933 N55E 76 SE, laminated to thk-bedded mica gneiss and coarse sparkling gray mica schist (Alligator Back? WP 460 N 37 02 431 W 79 45 763

ROW 9612 act sch sap, layer
in wh mica gn/sch sap
in road bank at WP 033
37 01 551 79 45 099
N 78° 60 SE

RDW 9613 Layered act sch mica sch sap
N40E 80 SE

N56E vertical photo of metatuff
beds @ WP 34 37° 01.515'
79° 45.004'

Strike 280 CN

Sept 2

RDW 951 Poplar Camp Ck @SR65S
b.w. sap qtz mica meta arenite
WP051 37 00 891 79 46 195
N 60E 62° SE apparent med bedded
Ashe?

RDW 952 N 60E 45 comp layered, b&w
qtz mica metaarenite. 100' flood
WP 052 N 37 00 .952
79 46 .048
20' mica schist sparkling silver
gray in creek
RDW 953 N45E 40SE actinolite schist
ledges in creek orange resid
WP053 N 37° 00 884 [illegible]
79 46 004

of ledges between RDW 963 and 964

RDW964 WP 029 37° 01.343'
7° 79° 45.049'

RDW 965 light colored salt & pepper SS
ledges @ WP - 030 37 01 337
79 45 179
N 56 E 60 SE MICACEOUS QTZ ITE

Folds plunging S 28 W 15 W
at fence line (Phot.
SYMMETRY INDICATE SE FACING
(RSU)

RDW 966
N 80 E 50 SE thin layered actinolite
schist / green and white gneiss
Photo of leucocratic layer with
5mm feld porphyroclasts - Relic x/ tuff?
GPS Waypoint 51 at hill side [illegible] of
stone from field above 37 01 274
79 45 138

RDW 967 N 50 E 30 SE thin bedded
gray mica sch / gn (graph?) below
green stone or actinolite schist

RDW 968 1-2' bldrs in Al / low td

RDW 969 N 44 E 46 SE flaggy mica gn / sch

RDW 9610 N 45 E 26 SE white mica
schist above creek

RDW 9611 Springs in steep hollows
resemble karst gt flt above spring

RDW 951 N 66 E 45 SE mica gn ledges

RDW 952 WP 032 37 01 356
79 45 998
Thick mica gneiss ledge, qtz & gneiss
(coarse mtd SS [illegible]

N 64 E 40 SE

5/5/06

Crossing Stream - LY (EZab)

RDW 3511 ledgy of b+w hbd gneiss forming point layering N50E 60SE

RDW 3512 N65E 70 SE ledgs of coarse bio - hbd gneiss along edge of field.

Well developed coposimional banding elongate feldspar porphyroclasts

RDW 3513 N55E 50 SE

med gr stp bio gn w/gt.

4/24/06

RDW 543 Coarse amphibolite bldrs on small knob, td and dl below WP 177 N 37°04.076 W 79°49.325

RDW 5510 WP 177 N 37 03.438 W 79 48 361
N55E 55NW great 37 03.440 79 48 361
exsposure of v coarse pebbly mica gneiss (Ashe-Moneta) with well preserved layering and lineation developed by stretched feldspathic clasts

RDW 558 N90E 65 NW med coarse thk bedded qtz wacke w/ lithic fragments very little schistosity - massive texture N75E 60SE mica schist layers above WP 178
N 37 03 666 W 79 49 002

RDW 6910 WP 179 N 37° 03.129 mica gneiss
W 79 45.749 thk bed
stp texture silvery schist ptgs

5/5/06 RDW 359 trace of old sunken road in woods red soil 4 qtz cedar trees

RDW 3510 N50E 45SE interbedded mica schist and gneiss ledges

1/10/06

ROW 4410 N70E 50SE thk to medium bedded metaarenite ledge

ROW 4411 Flat lying ledges - massive bedded in stream

ROW 4412 N70E 15° SE ledges of metaarenite in stm below little Cabin

ROW 4413 N75E 80-85 NW med bedded metaarenite - greenish gray to light gray sand in ck

ROW 4414 N70W 60 SW med - thk bedded light gray muscovite biotite gneiss or metaarenite in stm

ROW 4415 EW 40 S folded // bom S 40 W 25. Alligator Back? laminated mica gneiss and schist Cohotes good OC for field trip stop

ROW 4416 EW 15 S thick bedded metaarenite ledge on slope below new house.

ROW 4417 N 70 E 45 SE Flaggy layered mica gn or arenite Vein qtz blds in st. White qtz Irrahead in al

1/18/06 ctd RDW 445 ctd

thickened mafic layers out line duplication due to compression and tight folding / thrusting of layered gneiss up to NW

hinge and amp lineation S50W 23 SW ($S_1 \times F_2$)

RDW446 at loc of old house – coarse hbd gn bldrs in Foundation much veingtz as well large Cedars in hollow

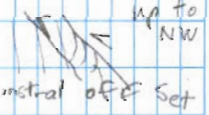
RDW447 Hornblende gneiss ledges in stream N 50 E 50 SE coarse boulders ~ 5' across on slopes to SW

RDW 448 N 70E 60 SE 20' long ledge of thk bedded metarenite forms pavement in stream, regular ∥ stratification coarse sand-pebble size clasts

RDW 449 N 70E 60 SE medium to thin bedded, schistose metarenite ledges in creek at spring branch below new house

1/10/06 RDW 4418 white qtz cobbles
Sandy terrace residuum on
ridge below new house
RDW 4419 gt amphibolite float in poplar
stand above house very mica rich
soil above in edge of terrace - field
1/18/06 RDW 271 in stream
below meat processing On Backner Fn
049 N 37 05 302 079 49 440
coarse hbd gn or amp in stream
red mica soil, cedars (a) Comp layering
in stream N 65 E 85 SE mafic gn / (b)
mica schist bedding cleavage
in schist N45E 65 SE

RDW 272 Metaarenite mica gn (stripper)
ledges in stream @ WP 050
37 05 279 79 49 387
N50E 60 SE Schistosity



RDW 273 amp sch/gn sap interlayer
~10' wide in mica sch/gn N50E 65
Comp layering N 37 05 240 cleav/S_2 N30E
51 W 79 49 323 60 SE

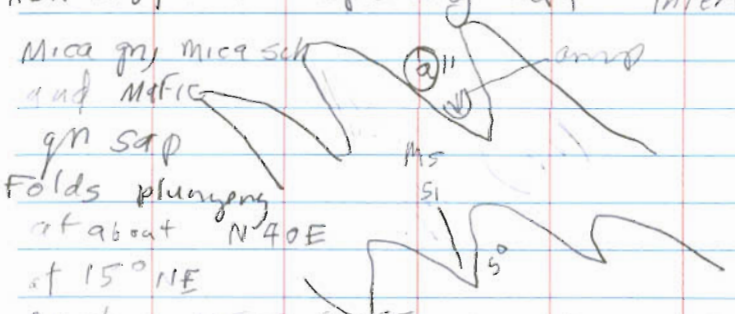
Jan 18'06

RDW 274 N 55 E 80 SE
coarse mica gneiss / meta
arenite ledge at WP52
N 37° 05.251 W 79° 49.18'
Joints N 55 W (305) 85 SW
amp Flt between ledges

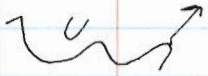
RDW 282 N 60 E 60 SE Massive bedded
ledge of medium gr musc-bio gn
2-mica gn or meta arenite blocky
Joints @ WP 053 [N 37 05 410
170 (N 10 W) 75 NE [W 79 49 028

RDW 283 N 70 E 70 SE Massive bedded
coarse micaceous metagrit (feldspathic)
N 40 E 40 SE cleavage - creats
micro lithons or lenses

RDW 284 at spillway cut interfolded
Mica gn, mica sch
and Mafic
gn sap
Folds plunging
at about N 40 E
at 15° NE
Ap cleav N 50 W 66 SE WP 054 N 37 05.535
W 79 48.950



N5E 20SE N 50 E 10 SW Fold hinges stand out on fol surface



RDW 3512 N 50 E 40 SE oc of Flaggy muscovite qtz schist (mount Athos ?) lithology in Alligator Back Metamorphic Suite. gentle folds N 60 E 10 SW Fold

qtz rich boudin

RDW 3513 N 45E 50 SE banded mica gn sap in spillway cut below dam

APRIL 24 '06
another thick amphibolite sill
then at 5516 a spur of brn mica
schist saprolite w sparkling
muscovite in soil WP 174
N 37 03 918 W 79 49 109
cut over slopes mgw ledges
on bank below river high water
stong sewerage smell
N 60E 40 SE photos of
schist gn/layering qtz + mica
pods 530 W 10° lineation
gentle fold hinges
RDW 5517 photo of folds in gently
dipping mica gn/sch ledge
plunging N60E 20 SW layering
N 55 E 20 SE
Cleavage N 50E 67 SE
WP 175
N 37 03 911 W 79 49 157
RDW 541 N80E 45 SE
N 37 03 917 strongly transposed
W 79 49 230 "pin striped bio musc gn
"Alligator back" gneiss schist
RDW542 lt gray med fig mica gn/sch
w pin stripe foliation N 80E 30 SE
general dip of ledge cleavage ~55

April 24 2004

RDW 5511 Thin bedded to massive pebbly meta graywacke ledges N 65 E 75 SE comp layering GPS along property line, quartzite layers are lighter gray pebbly layers are feldspathic

RDW 5512 WP 172 N 37 03.888 W 79 49 039
Massive ledge of banded mica gneiss with clots of leucocratic qtz and feldspar, coarser biotite porphyroblast
" Joshua Schist "

N 55 E 65 SE coarse amphibolite RDW 5513 bldrs in ravine between 552 and RDW 5514 RDW 5513 120 15 SW upstream
gent dipping ledges along bank muscovite biotite schist & gneiss

RDW 5514 N 70 E 74 SE ledges of thin to thk bedded mica gn metagraywacke

RDW 5515 N 70 E 50 SE ledges of thin to thk bedded ms/mica gn with incipient melt zone separated from 5514 by 50' cg amphibolite

WP 173 N 37 03 892 W 79 49 060 photo of schist below amp then [illegible]

3/31/06 RDW 151 N 50 E 29 SE
cg b+w augen gn/schist
N 37 05 900 W 79 51 035
RDW 152 massive leucogranyn ledge
320 25 NE lineation 006 E @ 22
WP 156 N 37 05 853 W 79 51 040
RDW 153 massive MS/meta-arenite
section exposed in meander bend
N 65 E 26 SE schistosity
in brown weathering meta cgl
sed Blocks up to 1' are
leucogranitoid @ WP 157 N 37 05 811 W 79 50 948 good OC
RDW 154 WP N 37 05 859
N 55E 29° SE W 79 50 918

RDW 155 N 55E 25 SE med
thk bedded metaarenite
in stream bank
RDW 156 N 60E 65SE schistosity
in med cg b+w augen gn
exposed on bank @ WP 159
N 37° 05 984 W 79 50 839

RDW 228 WP 148
N 37 07 087 W 79 47 547
Coarse blo sch/gn with
white lithic frags ? Or meta
porphyroclasts N70E 65SE
RDW 162 WP 149 Opposite Model RR
N 3706 312 79 50.630. Coarse porphyroclastic
mylonite gneiss large lithic clasts =
basement or basal breccia?
RDW 163 N 55E 25SE mylonitic
augen gneiss ledges in creek
at WP 150 N 37° 06.235 W 79° 50.414
RDW 164 N 37° 06 153' W 79° 50.241'
N60E 55SE photo of thin bedded
and amalgamated mgw-grit beds
in basal Lynchburg section
along Maggoddee Creek tributary.
RDW 165 N 75 25 SE 55 mgw
very flaggy bedded @ WP 152
N 37 06 082 W 79 50. 227
RDW 166 WP 153 N 37 06 025 W 79 50. 172'
thinbedded flaggy mgw in stream
N 65 E 40 SE
RDW 167 N 65E 70SE coarse mylonitic gn
WP 154 N3706.163 W 79 50. 52'

Oct 18 2005

RDW 661 N 45 E 40 SE coarse actinolite schist ledges, just below point ledge Form N 60 W 155 WP 446 el 785 N 37 03 376

RDW 662 on op WP 445. 173 point up stream N 20 E 63 SE coarse, pebbly? mica gneiss ashe or moneta gneiss l/o plunge 220, 25° WP 447 37 03 421 79 45 212

RDW 663 coarse tremolite-actinolite schist tremolite needles - 1 cm long WP 448 N 37 03. 290 W 79 45 283 ledges N 30 E 86

RDW 692 N 70 E 52 comp layered quartz feld gn / mgw 20' ledge WP 449 37 03 240 79 45 401

RDW 693 N 60 E 60 SE med to thk bedded qtz arenite - feldspathic arenite beds photos @ WP 450 N 37 03. 037 el 875 W 79 45. 409

RDW 694 N 64 E 80 SE Flaggy bedded meladiorite, bull qtz flt 37 02 992 road 79 45 401 Cross

RDW 695 N 60 E 75 SE main
layering, gentler layers 45°
cross bedded laminated arenite
Flood plain ~ 8' qual above
stn
RDW 696 Photos of Al WP 452
el 885, N 37 02 838 W 79 45 364
~6' section of Al qtz bldrs
graded into < bedded gry slty sand
slt clay above w stone line ~ 1' below
top - ∡ qt gravel
RDW 697 very light gray lam
qtz feld mica gn N 45 E
70 SE photo e WP 453
N 37 02.711 W 79 45.251
RDW 698 WP 454 N 37° 02.610
W 79° 45.130
amphibole gneiss b+w layered
N 55 E 80 SE layer
N 55 E 80 NW layer - tight syn
RDW 699 N 38 E 72 NW photo of
1" layered gneiss (me to arenite
pos marble to SE
WP 455 N 37° 02.718' W 79° 45.263'
50' us from RDW 697

10/25/05

RDW 834 2nd earthen dam along creek Metaarenite ledges N70E45SE above pond site on right bank at WP

Well developed joints @ 125° dippn 75NE prom lineation to sw on cleavage

WP 475 N 37 01 786 W 79 47 634

RDW 835 cut through point n 70 E 80SE thin amp or calc silicate layers in coarse mica sch/gn saprolite

RDW 911 N 70E 53 SE Flaggy to thick bedded quartzose metaarenite ledges crossing stream at WP 476 N 37 02 176 W 79 47, 209'

RDW 912 N45E 54 SE mica banding in coarse gneiss saprolite.

photos @ WP 477

N 37 02 . 158

W 79 46 . 895

folds or dextral plunges NE - SW 140 NE - N55E

RDW913 cgr mica gneiss - N70E 70SE at point

10 27 05

RDW 631 WP

Coarse actinolite schist (meta pyroxenite? or Greenstone bldrs on both sides of Road

RDW 632 WP 478 ± 937 N 37 04 439 W 79 45 615

Tremolite actinolite schist / massive MaFic rx bldrs on ridge thin rxy soil scrub Oaks

RDW 633 large outcrop of coarse amp chl rock prom joint N 37 04 09 W 79 45 620 WP 480

100°-50 NE 010 80 SE WP 479

RDW 634 N 60 E 50 SE

N 37 04 297 W 79° 45.574'

bldgs of foliate - massive tremolite actinolite rock along ridge

RDW 635 N 60 E 40 SE Foliation in MaFic layer that trends 110 through woods. Qtz bldr pile across stream (photo) intersection lineation

15's° at 20° SE

WP 481

N 37 04 247 W 079 45 583

RDW 636 other end of mafic layer at WP 482 N 37° 04 253 W 79° 45.456'

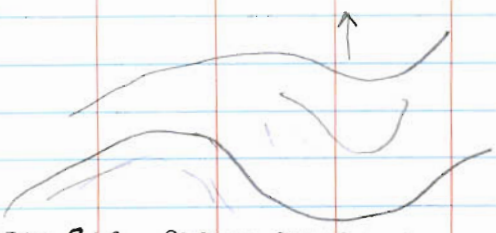
N 80 E 30 SE foliation, ridge ~ 10 - 15' th

Looks like upsection of Piedmont Mbr no blue qtz mostly lithic ss

RDW 3710 Laminated section shows appressed S similar fold N80E 10SW plunge Layer N25E 80 NW limb N42E 45SE SZ limb

RDW 3711 N40E 80 SE thin 1" layers in coarse sandy bio musc gneiss. Mainstream flood plain choked w/ coarse qtz cobbles at least 6' of gray silty clay (terrace bottom)

RDW 3712 S40W 10SW gentle hinge in mass/thk bedded metass



RDW 613 N20E 70NW massive bded meta graywacke ledges graded beds indicate NW facing

RDW 613 N40E 70SE qtz fold semi-closed or cg myon ledges in bottom (clear fold)

RDW 6/4 cobble terrace, red mica subsoil, white sandy surface & and round cobbles

RDW 374 red foliated mafic sap along farm road below terrace deposit

N54E 30SE app lineation N30E IS sap IS micaceous) Map as Mic

RDW 365 m-cg amphibolite blds on slope

RDW 366 Mica schist and mica amph. in Hedges, Robin well 721-2207 200 acres

RDW 367 Graphite schist cuttings Af 2nd well this well did not produce enough for the house and barn

RDW 3510 exposure of gray clay silt mtx alluvium w coarse qtz cobbles deep red above

RDW 3511 bio schist/gneiss w/ qtz stringers + folds

DIETZGEN NO. 385-3

RDW 332 N45E 60 SE schistocity in white to light gray qtz semisch or mgw/mica schist sequence "mount Athos facies. Abundant reworked qtz cobbles in stream

RDW 333 new well on knoll covered with red clay silt terrace, qtz cobbles cuttings include fine biotite gneiss (metagraywacke) and gtamphibolite

RDW334 N38E 70SE qtz schist/mgw ledge across track

RDW 335 el 890 b N35E 70SE cgamp ledge across track

RDW391 nbd gn + bio gneiss chips in pile at new well site

RDW621 N60E 60SE cg banded btw bio gneiss w/ bluish gray qtz bands possibly calc gneiss layers (calico rock) pebbles up to 1"

RDW 641 mass amp sap in road bed N45E 60 SE foliation

RDW 642 coarse amp Float ledge in river N 60E 25 SE schist.

RDW 643 ledge under h2o N 60E 50

RDW644 mica sch N 60E 60 SE garnet float

RDW 645 N 60E 60 SE Foliated metacgl ledges qtz pebbles ~ 1/2 x 1" stretched S26°W @ 50° SW

RDW 6 Kink banded mica gn / button schist N30E to SE

RDW 647 N60E 60SE Ledgs of coarse meta arkose gray - lt gray thk / mass bedded

RDW 648 N 60 E 80SE comp lagging in pebbly meta-arenite 1" pebbles strung out along foliation

RDW 649 N60E 45 SE massive pebbly meta qtz arenite / graywacke ledges

DIETZGEN NO. 385-3

Jan 18 '06 WP 64 RDW 5210

N 37 04 341 79 48.541 N 60 E 75 SE

sap of graphitic mica schist in road bank

RDW 5211 gentle sag, colors coarse amp

blds in front yard @ WP N 37 04 403

WP 063 37 04 722 W 79 49 343 W 79 49. 481

silvery mica rich soil in ditch MS unit?

RDW 513 N 35 E 75 SE

RDW 275 WP 064 N 37 05 057

mica sch saprolite W 79 49 561

in cut along 122 N 65 E 80 SE

mica foliation in eroded area

Feb 21 '06 RDW 668 new well

on east side of SR 834 at WP 066

el 1076 N 37 03 736

W 79 45 258

Muscovite bio gn, qtz stringers

mica schist layers silver gray

to dark gry, mica schist

Float from ditch.

RDW 921 N 35 E 70 NW Mica gn, gray

w/ feldspar clasts 37 01 932

79 46 352

RDW 922 N 40 E 70 SE foliated

mica gn/sch sap in steam bottom

amp schist float on slope to SE

3701 852 7946 477

2/21/06

RDW 951 coarse (large) qtz blocks and bldr forms natural hummuck in woods Flood plain ~ narrows ± 75 yds at vein Oc Bed load is cg qtz gravel along stream Coarse

RDW 952 ffggy to med. bedded qtz epidote act schist (greenstone) N60E 70 SE some kind of compositional layering in schist strong lineation N 70 E 20 NE about 150' ds From Fence and open Field SPL GPS el 1154 N 37 01 672 W 79 46 .334'

RDW 953 coarse mica gneiss saprolite brownish yellow leather like mica (musc rich 37 01 615 79 46 260

RDW 914 just below Farm pond in stream channel — N20E 55 NW coarse tremolite chlorite talc schist or soapstone ledge 37 01 846 WP 69 79 45 717

RDW 915 WP 70, 37 01 343 79 46 694 el 1180 Dugout Spring, (2 ppm) bench, Foundation stones and stove parts above = Cabin Site

3/7/06

bill is Steven Sink Semeter @ WP 105
37° 04.855 W 79° 47.536 Many
hand made stones of course from
schist Army white marble Com
1759 - 1835 PVT Den Militia Rev War
RDW 533 N80E 25 Foliation
at edge of course amphibolite
ledge traced across creek at
N 37° 04.779 W 79° 47.612
RDW534 large domestic watersupply
spring at WP 106 N 37° 04.755'
W 79 47.563
RDW 535 MgW ledges N 70 E 50 SE
at WP 107 N 37 04 704 W 79 47 577
RDW 536 N 37° 04 527 W 79 47 537
Massive amalgamated metagraywacke
in stream intersection Flat lying
Vert joints N 10 W
RDW 537 N 80 E 80 SE 6-8'
amalgamated graywacke beds
in stream gentle fracture
cleavage indicates OT
Fracture cleavage N 80 E 30 SE
WP 108 N 37° 04.486'
W 79° 47.521'

3-7-06 WP109 N37 04.368 W 79°47.554'

RDW 538 N85E 48 SE

interfolial anticline
isoclinal hinge N80E
20 NE qtz bands
in fold core orange
amphibole schist or
amphibole gneiss, saprolite in bank

3/8/06 WP 110 37°04.769' W 79 51 221

RDW421 N65E 25 SE interbedded
Mica schist and metagraywacke
sap in old roadcut (CZ mg

RDW 422 N65E 30 SE interbedded
mica schist (silvery gry and med
metagraywacke (mica gn) @ WP111
N 37 04.775 W 079°51.270 (CZmg?)

RDW 423 N55E 70SE Mica schist/gn
thin - Flaggy cleaved coarse muscovite
@ WP 112 N 37 04.751 W079 51.448

RDW 411 Big Spring in td mtl - looks 5 gpm
like Karst beneath C 37 04.643
Maple Glossums opening 79 51 738

RDW 412 Big Spring (20 gpm)
From channel cut in muscovite schist.
Silvery rg w/ bio pbs N60E 65SE
layering? in med - thinbedded metagranites

WP 113 N 37 04.57W W079°51.752'

or layered amphibolite forms
massive dedge along riverbank
RDW 563 N45E 40SE ther 10°
massive hbd gneis
+ | — |
fold core ?
RDW 6410 Blackwater Hills Subdivision
common area ~ good place to
recover boats
RDW 564 mica sap exposed beneath
terrace clay in road cut. Graphite Float
RD565 N 60E 80 SE jointed hbd
biotite gn bio Foliatio ~ 60° dip
to SE. C
RDW566 N70E 60 SE white mica
schist w/ bio pbs pos gt
in stream. Karst Feature
No NW in meander
RDW591 N60E 50 SE mica schist
Saprolite cut by vein qtz
Aug 2 2001. RDW 464 NW limb
N60E 60SW Mass bedded meta
cgl / cg ss or bio musc gn
fold core hinge plunges S45W 15
SE Limb EW 5-7°s

RDW 541
N 54E 60 SE Foliation
in Massive bedded gneiss
RDW542 E W 60 S 10' high
concrete dam, med bedded
metagraywacke gneiss OCS
coarse gabbro bldrs in stream
Joints N 45W, N 10W ~vert
diabase Float below dam
RDW543 N70E 60 SE pebbly
bio - muse gneiss, diabase
and vein qtz Float
Main Stream entrenched ~20' W
100' sandy terraces, 6'
levee on NE bank
RDW 544 Red clay subsoil
sand wash top, x + OO cobbles
"Higgins Lane" or Grahams Drive
RDW 492 N70E 70SE mica schist
Foliation in sap next to
qtz vein
RDW493 Overgrown road below
qtz vein OC (N30W vert)
amphibolite Flt
RDW 494 N68E 60 cg. muse [illegible]
ledges on slope

DIETZGEN NO. 385-3

RDW512 N 37° 01. 865' el 1064?
W 79 49. 848' ± 43'

diabase OCS in stream! N60E 80NW
Joints N10W 80 SW ~ 10' exposed

RDW513 Red clay soil & and Od. qtz
blders and cobbles on slope along
fence line
Way Point 9 N 37° 01.764'
10 W 79° 49.898'

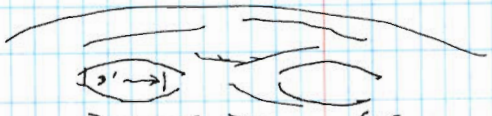
RDW 551 red clay saprolite N 76E 50SE
amphibolite some coarse, inter
layered with SS (Moncta) mica
gneiss

RDW 552 above ford N 70E 60SE Mas bed micagneiss
in river

RDW 553 th-thk bded qtz gneiss-qtzite
with fine fol amp schist interbeds
pos alligator back

RDW554 N50E 60 NW Layering
in Cg pebbly musc bio gn
flat pebbles a 2" most ~ 3/4
lithic - granitoid

ROW 555 N 45W 18° SW - coarse amphibolite, possible pillows ~ 2-3' long enclosing Foliation dips gently SW need photo, good Field stop



ROW 556 N 52E 66 SE amphib w/ comp layer coarse SS contact

ROW 557 cg meta ss ledges N 56E 20 NW layering

ROW 541 N 60E 50SE thin layered dk gray micaceous gneiss ledge

ROW 542 N 60E 20 SE amphibole schist ledges

~~ROW 543 N 70E 15 NW~~

DIETZGEN NO. 385-3

07-31-01

ROW 531 N60E 30SE schistosity in fine, gray qtz-mica (bio+musc) schist or meta graywacke in midstream.

ROW532 N50E 45SE comp lay in med gr gray qtz mica gn (meta graywacke with some coarse qtz & Feld grains scours look like lynchburg (upper) large cg amphibolite blocks

ROW533 N70E 15SE approx fol in massive amphibole schist ledge in stream. large qtz + amp cobbles and grey silt in channel look like old td mtl - "pipe clay"

533A N50E 60 big ledge of mgw/mica schist forms meander point

ROW 521 N40E 60SE comp banded mgw photo of flat cobble 3" by

ROW 522 coarse mafic ledges interlayer a 30' thick

RDW 523 coarse amphibolite w/hbd
up to 10mm across " metagabbro
RDW524 N 60E 44 SE
coarse grained massive ledges
of metgraywacke (5) Then laminated
pinstriped metagraywaske
S 20 W 15-20° swly right handed
Fold hinges, ap - cleavage
N 60E 45 SE
RDW526 N 60E 60SE mica schist/mgw
ledges along creek med fine
grained smooth ~ mass mgw, ledg
RDW527 N 40E 30NW fg greenish gray
chlorite? amphibole schist ledgers
in stream bottom
RDW528 Act chl greenschist blocks
in woods on ridge behind house
RDW 561 cuttings from new well
are med grained bio qtz feld
granofels ~ metagraywacke
w/fresh brown bio flakes,
dk gray overall
RDW 562 N80E 60SE black and
white banded hornblende gneiss

DIETZGEN NO. 385-3

RDW 771 NOV 7, 1990

Oc on 220 By Pass at Spirit of Rocky. Int
Interbedded graphitic schist (graphite bearing fg ss
and white qtz ss with fine rnded qtz sand
grains with qtz overgrowths = Everton?
Qtz sericite schist above (strat below?) is
heavily mineralized with pyrite - smells
like rotten eggs when you hit it

RDW 772 NOV 7

Ocs along stream dk gy & white Qtz-epi
act schist, transposed layering lineations
(F1? S15E 62)
F2? N80E 20 SW
Rocks get coarser grained upstream with 5mm pyx
relics, then more schistose

POW 872 NOV 7 90

end of syncline contains marble,

SE Limb contains tight NW facing crenulations

APFW dips ~ 30°

hinges plunging 200 55SW

POW 971 CHRISTIAN FELLOWSHIP CHURCH NOV 7 90

Thin - Med bedded actinolite to qtz schist - obvious sedimentary texture - mafic tuffs? or dolomitic seds? Whole church campus is a gross sediment point source because of unprotected grading

7-17-01

RDW461 cg hbd/amphibolite "meta gabb" blders on point beneath power line

RDW462 550W 10SW gentle Megascopic fold hinge in Lyg Mica gn/schist unit SE limb N55E 20SE

RDW463 S50E 15 dip on gentle foliation / comp layering in qtz Mica gn/schist sequence, cg hbd amp blders in side stream

RDW464 N80E 20SE Mica sch Fg qtz Mica gn/meta ss or graywacke Photo.

RDW511 N60E 20SE limb of anticline in mass/thk bded. mgw hinge S70W 10 ~

RDW512 N30E 35SE coarse meta grits in creek thk/thn bded semi schist beds sand grains up to 5mm

RDW271 N60W 20NE (NW limb of fold) Hinge N60E 10NE

SE Limb N40E 10SE

N40E 80°SW

RDW191 SH5W 1~5° sharp pointed
fold hinges very strong lineation
NW Limb of SE Limb steep
N40E70 N70E 20SE
RDW192 N40E 50SE semischist
ledges along stream bank
RDW193 N20E 25SE mass mgw ledges
RDW194 N30E 35SE mass cg mgw ledge
across stream
RDW 251 new well on lot 25, woods
edge Sub. lt bluish gray-brn
biotite pb bearing qtz
wacke
RDW461 N50W thk bedded micaceous
meta sandstone ledges 6-10' ? diabase
dike in cut ~N40W? 7/19/01
RDW471 N 60E 45 SE coarse
bio muscovite schist/gh
RDW472 coarse pebbly gneiss w
med grained laminated "pinstriped
beds N60E 45SE NW
N 80W 30° SW SE limb
hinge S40W at 20 assymetrical
pointed to rnd hinges

DIETZGEN NO. 385-3

RDW 465 n45E 14 SE thk bedded to massive cg mgw gneiss ledges

RDW 466 N70E 15 NW Mafic schist pavement ocs in stream

RDW 467 coarse meta gabbro (amp) bldrs stacked along slope above

RDW 468 N40E 30NW pinstriped muscovite bio gn/sch ledges lite gray fine medium sandstone

RDW 469 white qtzite, fine qtz arenite sand well preserved

RDW 4610 bldrs of sachaoidal texture meta sandstone, Fine qtz sand weathered in relief on surface

RDW 4611 Fine diabase or basalt bldrs in notch ledge on NE side of dike Fine ss btw (magnetite) qtz + musc + bio N52E 32SE pinstripe lam weathered out on fracture

RDW 4612 ang qtz on top red clay soil

RDW 4613 white sand top & qtz cobbles mostly broken

Aug 3 01

RDW 372 rnded qtz bldrs + cobbles at intersect of old road and 4 wheel track along SR 900

RDW 373 coarse amphibolite or metagabbro cobble (nter mixed with qtz alluvial cobbles

RDW 374 very red sulfide bearing mica schist float along trail possibly mafic schist or graphitic

RDW 375 deep red clay td, resid, mafic schist float (elongate clasts)

RDW 376 large bldrs + blocks of cg amph ("metagabbro") in place in streams to adjacent field

RDW 377 N60E 40-45° SE
Mica gneiss, mica schist
Foliation some pinstripe lam
mostly coarse, mass mgw

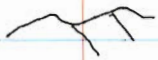
RDW 378 N 45E 60 SE thk (8"-2' bedded pebbly (¼"-1") meta sandstone beds

RDW 379 Mica rich zones ~ thin bedded ribby weathered mgw
massive base grades upwards?

DIETZGEN NO. 385 3

Mr Hodges owns Cutter
Bill Pickeral 2096 Altice Mill Road
483-5464

RDW473 N75E 40SE mass qtz mica gneiss
ledges in river
RDW474 N60E 80SE coarse mgw
gray - lt gry qtz rich
mass - thk bded poss x beds
RDW475 N80E 40-45SE cg meta-
grit beds form high ledge
RDW476 S40W 20 syncline
in thin layered metagraywacke Great Field stop! Get Permission
RDW477 N85E 50-52 SE



hinges plunging
S50W 15 SW cg bio musc qtz fold gn
or cgl
RDW711 N60E 40SE cg gray mica sch/gn
ledge some schist ~ mt atmos
RDW712 N55E 80SE schist sap.
deep red silty cly td above
RDW713 N60E 60SE ms ptings
in coarse mica gn/mgw sap
qtz vein float
RDW741 N52W 70 SW act chl tale sch
ocs in side yard - ledges

RDW 478 sap of cg pebbly mica gn
typical "Monata"
RDW 479 N 80E 55SE · red clay
td top ~ 12 - 14'' then red
mica gneiss sap
9-20-01
RDW 481 N60E 76 NW Fg blk trns
bio gn, ~ steep dip may be rotated
RDW 451' N60E 60 NW gray mica sf
ledge in river
RDW 452 N52E 38 foliation in
Mgw, possible * bedding
RDW453 N15E 64 NW garnet amphibolite
comp layering, semischist beds
next to have elongate schistose ledges
RDW454 N80E 60 SE Fg
metagraywacke,
RDW455 N80E ~90 40 S pinstriped
metagraywacke ~ weathers in relief
possible gran marble
RDW456 thin bedded micagneiss (alluv.)
~ 40 W 40 S
457 - interlayered mica schist
amphibolite and wed ~ marble
replacement

10/20/05 RDW 938 photos of

Mica gneiss / N 40E 20 SE plunging
fold hinge interlayered in amp
at stream intersection WP 466
N 37 02 373 79 45 246

RDW 939 thin bedded hbd gn/amp
N 70 E 40 SE ledge at
stream bank WP 467
N 37 02 446 79 45 103

RDW 9310 thin bedded hbd gn
N 60 E 45 SE comp banded
OCS in stream WP 468
N 37 02 .320 W 79° 45 .241'

RDW 9311 Bull qtz ~6' blocks
~OC @ WP 468 N 37 02 117 W 79 45 312
amp Flt alom stm

RDW 9312 N 65E 75 SE amp gn
+ vein qtz in side ditch
by garage at WP 465
37 02 142 79 45 762

RDW 9313 N 45E 80 SE laminae in
coarse mica schist sap (photo)

incipient slip cleavage
N 40E vertical sigmoidal

WP 459
N 37 02 334 W 79 45 372

HRD681 N55E 75 SE ledges of
light gray cg metaarenite
thin to thk beds - old dam
site @ N 37° 02.590' W 79° 46.009'

10 25 05 Beck Perdue - Davis land
① RDW 821 New well below am
- bio sch / gn cuttings
② RDW 822 gray pipeclay in swampy
bottom of Foul Ground
③ sup in bank N60E 75 SE
bio schist coarse metaarenite
blocks in creek bed
④ cg mica gn / metaarenite
N 80E 68 SE WP 37 02 022 79 48.208
RDW 831 N 80E 54 SE massive metarenite
4' thick ledge w/ cross beds?
WP 422 37 01 85 79 43.087'
RDW 832 N70E 57 SE S40W 80
coarse mica gneiss / meta grits
N 37 01 957 W 79 47 956
RDW 833 N65E 58 SE mass mica rich metaarenite
gneiss in washout on left bank
of old earthen dam @ WP 474 N 37 01 981
much white vein qtz in al W 79 47 82
above.

RDW 712 about 100' up hill from 711

2 folds in lgy schist N50E horizontal

rooted gravel above

RDW 441 SEPT 25, 1990

Talc? Tremolite Chlorite schist ocs on rr. Pbs of py? ard dolomite weathered out lineation streaks cleavage S 10 E 36

RDW 442 Fg plag actinolite sch. n SEPT 25, 1990
(Meta basalt) nearly vertical - pos SE limb of syncline involving 441 N60E 75 NW

RDW 711 Coarse porphyroclast granitoid gneiss outcrop beneath bridge trestle White qtz-feldspar pebbles up to ± 1" long.

RDW 413 Big Spring House from old farm @ WP 114 37° 04 509
79 51 787

RDW 414 Graphite schist in basement Cut N 65E 60SE.
@ WP 115 N 37 04 461
W 79 51 757

Talked with dozer operator building pond — yellow clay below looks mafic.

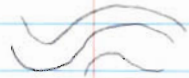
RDW 424 N55E 75 SE coarse mica schist saprolite in track cobbles and pebbles in red micaceous clay td above
WP 116 N 37 04 780 W 079 51 .466'

RDW 425 thin laminated light and ark mica schist/gneiss ledges in stream at WP 117
N 37° 04.761 W 079° 51.183
Good Field stop for Alligator Back N68E 26 SE

RDW 426 N55E 56 SE thin bedded mafic saprolite ch/biomica sch w/mica gn beds in lower Alligator back @ WP 118 N 37° 04.780
W 079 51 .060

Photo of Sap

3/8/06 RDW 427 N 35 E 15 NW
Thibedded mica gn/schist shows
rip reversal WP 119 37 04 775
79 50 952
N 50 E 35 SE SE LIMB
RDW 431 N 75E 45 SE thin bedded
mica shist/gneiss sequence in stream
at WP 120 N 37° 04.713
Many minnows in W 079° 50.779 stream
RDW 432 WP 121 N 37 04 .770
W 79 50 .645
diabase bldrs within ledges
of med gr meta-arrente jn
Photo of dike in Creek at WP 122
N 37 04.801 W079°50.620'
Spl RDW 432
Joints near vert 350 275
trend ~ N 7W

RDW 433 N65E 10 
gently plunging open fold
in massive stp meta arenite ledge
exposed on creek bottom
RDW 434 N 65 E 35 SE
massive med grained metagraywacke
in whale back exposure at old

Redwood Quad

12/13/05 RDW 341 vein qtz bldrs stacked in woods

RDW 342 ~ 2' thick vein qtz N78E 75 SE ledge in woods - cold very clear ~ 25°

RDW 343 - N60E 80 SE cy bio gneiss w/ bio lovering, louco mtx WP 022 el 1193 N37 06 315 ledge ~ 5' long W79 47 236

RDW 344 Hbd + Hbd bio gneiss Float in side drainage 1-2mm euhedral orange garnet + hbd + bio deep saprolite scattered junipers WP 23 el 1014 N 37°06.565 W 79°47.15' ~15' flood plain on each side of main stream

RDW 345 Metarhyolite layer - Felsic gn ~2' N75E 75 NW in stream bed red brown mafic - intermed saprolite on banks at WP 024 N 37°06.635' W 79°47.149'

RDW 346 Coarse-med bk + wn hbd bio gn, garnet N75E 55 SE comp layering blocky jointed

WP 025 N15W 80 NE

N 37 06 734 W 79 47 121

Dec 13/05

RDW 347 coarse qtz granite Float on slope below ledge forming ridge

RDW 348 N 70E 55 SE sheared gran gneiss with lenticular mylonitic text

WP 026 1021 el N 37 06 490 W 79 46.718

ROW 349 spring, emergent beneath pile of bull qtz bldrs, w tin top at WP 027 1051 ft N 37 06.396 W 79 46.717

RDW 745 @ wp 028 1159 N 37 01 045 W 79 52.09 Massive to thk bedded meta arenite N 30 W 55 SW below bridge on RR

RDW 746 N 80 E 65 SE thn Mica schist parting in metagray wacke. WP 029 N 37 01.237 W 79.52 029 Gentle Z Folds plunge S 55 W 20 ~ photo

11/1/05 Board Trails End Angus Fm 200 h

RDW 574 N80E 55 SE thk, thin bedded ledges of coarse meta arenitic gneiss. Spring on SW

RDW 575 diabase boldrs along stream from WP RDW576 to RDW 576

WP 492 at N37 02 900 W79 49 480 N 55E 4° SE thin bedded mica sch/gn sect.

RDW577 290 50 - 60 s thk - med bedded slaty - schistose cleavage in meta graywacke; Still diabase boldrs in stream - 20' al on SW side of branch deep red soil above

Thin beds of hbd, garnet bio gneiss hbd up to 5mm - 10 mm long orange gt ~ 5m dia

WP 493 N37° 02 983 W79° 49 .518

RDW 578 thn bdd - mica gn/sch in stream bed, edge of hd above at WP 494 N37 02 033 W79 49 547

RDW 579 WP 495 N 37 02 087 W 79 49 564

coarse amphibolite ledge ~ 6' x 10' N90E 50 S Terrace gravel (white qtz cobbles in field above

RDW 570

N 79 E 55 SE at WP 496 ledges on Black water River

N 37° 03.185' W 79° 49.542'

Photos coarse meta arenite with ribby qtz segregation layers mica schist bands

RDW 571 N 70E 60 SE laminated bio musc gn w/ isolated lenses

WP 497 N 37 03 232 W 79 49 410

11-8/05

RDW 823 37 01 930 79 48 625

c/ 1111 DAVIS #2 CEM

RDW 851 N 70E 25 SE coarse gray mica gneiss layers in stream large quartz float

WP 604 37 01 489 79 49 732

alt white qtz granol

RDW 853 terrace cobbles, rounded white qtz above house

RDW 814 Coarse mica gneiss N 75E 70 SE

RDW 815 coarse mica gneiss

N 75 E 54 SE Flaggy —

Med-thk bedded, pebbly meta arenite

N 37 02 .329'

W 79 49 427

7/20/01 49 758

RDW 458 N50E60SE Micas-prolite -gn/sch

RDW 459 N65E 60 SE cg qtz grit-mgw w/ mica schist interlayers

RNW 459 water well graphite in cuttings qtz grains in outcrops and blocks seems more quartz rich

RNW 4510 cg-mg mass amphibolite w/ rare garnet

RDW 491 N 70E 60 SE btw biogn comp layering crenulation S45W 30 Kink Garnet Strain Slip Cleavage

RDW 492 N 74 E 64 SE coarse mica gneiss, schistose foliation, feld or gt pblasts up to 7mm

RDW 493 N80E 45SE thick bedded moneta-Gneiss (bio musc) with pointed foldhinges S20E 62

RDW 731 7/25/01 Way Point 02

house 37° 02 .433' (732) N40E 40SE

79° 50 .391

RDW 733 N 37° 02.277' Way Point 03

W 79 50 .373'

Photos of pebbly cgl gneiss Foliation N 60E 50 SE defined by pebbles and mica pebbles mostly alt granitoid, leucocratic

and vein? coarse x'line qtz

RDW 734 waypoint 004 el 876
N 37° 01.994' W 79° 50.287'
N60E 40 SE coarse pebbly
mica gneiss typical of lower
Lynchburg Group.

RDW 735 N37° 01.965' el 825
W 79° 50.136'
pale orange pink mica saprolite
musc Foliation N60E 45SE
PHOTO TYP SAP

RDW 736 N 37° 02.019 white sandy
W 79 50.005 top soil
x qtz blders, cobbles, some and

RDW ~~737~~ 811 N 37° 02.018 waypoint
W 79 49.881
coarse pebbly gneiss well exposed
in streams photos of fold
hinge S78W 0 SW
N60E to 50 comp layering
(massive beds that are
transposed)

DIETZGEN NO. 385-3

27/Feb 06

RDW 873 N70E 75 SE massive brn mica rich gneissic saprolite at edge of broad cobble filled flood plain brown saprolite = meta graywacke

RDW 874 N70E 40 SE mm layers or pin striped gneissic graywacke ledges in stream @ WP 76

Photo of Layering in Alligator Back

N 37° 00.075'

W 79° 49.265'

RDW 881 EW 30S massive b+w meta graywacke disrupted qtz stringers some ~ folded folds plunging 240 @ 15° SW

Alligator Back

RDW 882 N80E 65 SE mass disrupted to tuk bed NW

RDW 882 at Road WP 77

N 37 00 204 W 79 49 008 diabase blders in woods.

RDW 883 mica schist/gneiss in stream bed N40E 40SE foliation

RDW 884 actinolite or hornblende schist in stream N80E 55NW

Schistosity at WP 078

RDW 884 B N55°E cy 55 NW amp gn in hollow

RDW 883 B N 37 00 342 W 79 48 858 above on bluff pebbly musc bio gn stringy out Feld pebbles + qtz

3/1/06

S35W 14SW

RNK 961 spl of coarse charnokitic gn
from sewerline along Rt 24 in Vinton
Photos

RDW 926 fine grained granofels or meta
graywacke, musc + biotite
RDW 927 N 60E 70 SE ledges of mica
gneiss, schist and metagraywacke, vein
quartz and greenstone float

RDW 927 coarse qtz pebbles in fine
metagraywake gneiss mtx N 70 E 20 SE
foliation and layering: lineation S 58 W 3
mullions and mineral stretching in
cyl layer ledges in Foal Ground Ck
@ WP 71 N 37° 02.387' W 79° 46.584'
RDW 928 N 70E 85 SE fine med gr
lite gy to white mica feldspar arenite
(Mt Athos type - pinstriped lamination

Feb 27/06 RDW 871 layering in bio musc
calcite gn (marble) N 60E 30 SE folds
S 25 W 40° SW refold angle see sketch
RDW 872 synclinal hinge sketched
on next page WP 75 Most 5
coarse muscovite schist with thin
qtz feldspathic layers that stand
out in relief due to weathering

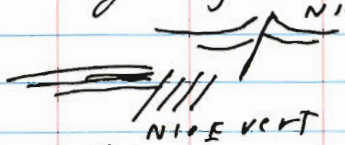
27 Feb 06

RDW 885 coarse micagn/sch mg w unit pinstriped w/ lineation S 50 W 8° Foliation on ledge 120 at 15° SW (N60W at 15 W

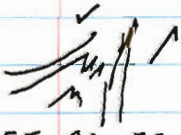
RDW 886 EW 305: thin beddded mica gn / metag ray wacke

RDW 886 cg amphibolite at least 20' wide along stream WP 079 N 37 00 542 79 48 531 N 45E 45 SE Photo of Amp Ledge Spl – 3/1/07

RDW 887 N 60E 65 NW Pinstriped metagrawacke-qtz arenite photos of layering at mm scale



strong NS cross fractures visible in photos above LL component of shear



RDW 888 N55E 80-75 NW f-mg mg w pinstriped mica gneiss ledge in creek just below dam @ WP 080 N 37 00.373 W 79° 48.603

2/24/06 State Farm quad
Spl Staur sch on 24
between Oak Grove and
Rust Gang – WP 12 el 983
2/27/06 N 37° 15.542 W 79° 09.555'

GPS weak loc WP 073 to 45' el 963
N 37 00 197
W 79 49 .546

Sketch of Folds
along Pigg River
at RDW 871

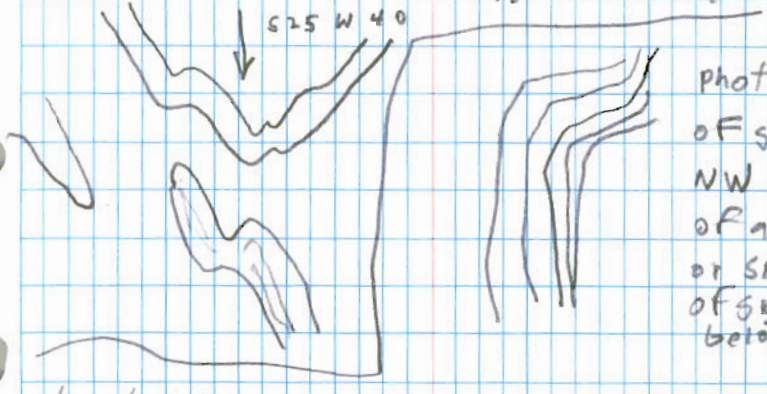


photo
of steep
NW Limb
of anticline
or SE limb
of syncl
below

2/27/06 RDW 872 photos of plunging
Snycline in marble layer WP 75

el 978
N 37 00 180
W 79 49 558
S 45 W 10 SW hinge
N 60 E 40 SE axial plane
N 6

11/10/05 WP 012 N 37° 01.745' W 79°49.279

RDW 8/1/13 N 65E 73 NW thk bedded Zam ledges, steep schistosity. Stream bank on NE side has coarse ∡ qtz in silty clay mtx = Td

RDW 8114 340 35 SW lineation dextral folds plunge S 35 W 20° SW

coarse rnded grit beds in Zam at WP 013 N 37 01 774

RDW 8115 WP W 79 49 322

014 - N 37° 01.814 W 079°49.233'

qtz and diabase bldrs in drainage cedars in field

RDW 852 cem at hill top by old Foundation No names visible last name ends in

A = Altice WP 015 N 37° 01.644

A = arrington W 79 48.959

RDW 742 actinolite schist dk grn ledges in creek behind school board at WP 016 N 37 00.929

el 1192 W 79 52.275

N 45E 55° SE

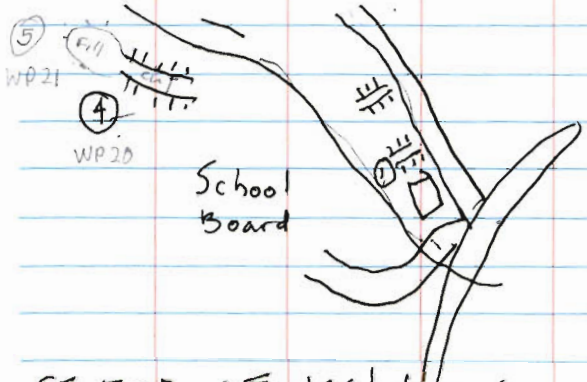
RDW. 743 N 37 00.897 W 79 52.253

Massive antigorite tremolite schist behind school board, some very coarse pseudomorphs of Pyx

plunging linear features S 80 W 16 SW ledges

N 40 W 15 SW Ledges on water line

11/10/05 contd
SW end of trench WP 017
N 37 00.197 W 79 52 249
NE end of trench WP 018
N 37 00.918 W 7952 221
Parking lot built on bldrs
From S. to - all filled over
WP 019 RDW 2nd Oc belt at
N 37 00 974 W 79 52 335
(Photo) lineation E-W/6°S
Foliation N 45 E 35 NW
RDW 744 WP 020
N 37 00.961 W 79 52 433



SE END OF 100' trench = WP 020
NW END 37 00 941 79 52 487 - Boones Mill

Dec 13 '05 WP 030

RDW 747 N 37° 01. 392' W 79° 52. 117'

saprolite of thin bedded mica gneiss mgw — to possible calc gn w mn staining along bedding and across joints compass not functioning EW ? red band = amp layer?

N 80 W dips 55 - 60 SW

RDW 748 WP 031

Mica rich metagraywacke seg schist band trends N 60E 52 SE

compass Fine el 1097

N 37° 01. 597' W 79° 52. 296'

Alligator Back ?

RDW 714 N 80E 69 SE white mica gn saprolite near old bridge

RDW 715 320 (n 40 W) 45 SW thick to massive layered mica gneiss saprolite in cut thin mica rich partings

WP 032 1211, N 37 02 015

W 79 52 250

RDW 716 N 80E 15 20 SW plunging F_2 fold hinge

photo

RDW 749 N 80E 84 SE med - thn bdd meta-granite in stream at N 37° 01. 363'

WP 033 W 79° 52. 100'.

warm, partly cloudy ~ 50°

Jan 5 '06 Redwood School Trav

RDW761 N60E 45SE thickbedded metarenite ledge in creek below old schoolhouse WP 040 N 37 01.262 W 79 50.686

RDW 762 N60E 65 SE steep schistose foliation in mica gn/schist sequence - Al 50' wide meander beltabove stream intersection at WP 041 el 978 37 01 407 79 50.716

RDW 763 N 80E 50SE coarse mica sch/gn sap with thin (2-4") qtzite layers in stream 6' thk 75' wide qual - brown mica loam, lots of qtz cobbles in bed load WP 42 N 037° 01.499' W 79 50.624

RDW 764 N70E 52 SE med-fg musc-biotite gneiss (brn bio) orange qts ~2mm WP 43 relics of A-model Ford above 37° 01.573 79 50 606

RDW737 N 76E 33 SE, btw musc bio gneiss ledge in stream bed transposed layering, intesection lin S60W 10 across pinstripe WP 44 37° 01 704 79 50 442

RDW 738 N 75E 65 SE cg pebbly

T-10-01

RDW 131 N 34E 50 SE Foliation in basement saprolite cut pale orange pink - orange mica gneiss. sap. Qtzite cobble layer ~ 28" below surface of deep red clay loam soil

RDW 132 N 30E 50 SE coarse mica gneiss sap with compositional layers brn and ~ orange banding on 1' scale

RDW 211 N50E 55SE b+w bio augen - flaser gneiss w/ strung out augen ~ 1.5 to 2" oval shapes or ellipsoids

lineation N 60 E 20 NE

1/4 red garnet p-blasts

RDW 311 N 30 E 70 SE mica gn / hbl gn layers in stream

RDW 311 new well in fg gt bio muso gn.

RDW 351 N 20 E 70 SE Layered mica gn sap

Syncline, N60E 20 NE pointed hinge in mica gn sap

RDW 352 N43E 52SE Massive grey metagrawacke/ qtz-mica gneiss

RDW 353 N 40E 45SE mafic camp layers in cg mica gn sap

RDW 354 N50E to SE banded btw mica gn w/thin qtz layers

RDW 355 red clay terrace in gully w/ qtz cobbles below deer stand along trail

RDW 356 lumpy text act/hbd schist with veins or lenses of calc gneiss and tremolite crystal bundles purplish gt, pyrite, chalcopyrite

RDW 357 N60E 45SE, ledges of gt amphibolite interlayered in mica gneiss sap

RDW 358 N20E 30SE cg gt amp ledge sticks out on hillside

RDW 321 N50E 80SE thick bedded qtz mica gn or meta arkose

RDW 322 coarse grained layered granite hbd tbio? N30E 60SE Fold nose or boudin @ 20W @ 30°SW Leuco Granitic float, sills in ledges upstream

RDW 323 sap in road bed, cg btw bio granitoid layered gneiss or meta-arkose N60E 70SE

RDW ~~324~~ 324 N50E 25-40 SE Foliation in flattened gritty bio musc qtz ksp gn/meta arkose or semi schist

DIETZGEN NO. 385

RDW 231 9/12/93

pebbly gneiss, fg bio rich, leucogneiss pebbles strung out on folia

RDW 181 great exposure of Bldr 9/17 90
gneiss at Piedmont.
many bldrs of leucogranulite

RDW 161 good fresh exp
or strongly layered
elongate-pointed qtzofeldspathic porphyroclasts along folia

RDW 161 cont'd

HAPPY 18th
Birthday Rob

RDW 271 mica schist and biotite gneiss saprolite along road cuts soil contains many rounded polycrystalline pebbles the size of rifle ball that resemble granulite units in Blue Ridge to west.

RDW 281 Spillway [illegible]

[illegible]

some chl [illegible]

form [illegible] Cross [illegible] mica [illegible] amp? mica [illegible]

RDW 177 Red soil mafic sap

RDW 417 WP 136 N 37° 04 .954'
W 79° 52 .067'

coarse gritty metacrenite w/ mylonitic lamination platy
clearge N 65 E 70 SE

RDW 178 N 75 E 70 SE mica schist
oc at fence line
37 05 .153 79 51.918'

RDW 179 N 65 E 62 SE med gr med
thin bedded metacrenite at 2nd
Pence Spring above -
WP 137 N 37 05 252 W 79° 51.919'

RDW 1710 boulder cgl N 65 E 74 SE
mylonitic foliation WP 138
N 37 05 361
W 51 861

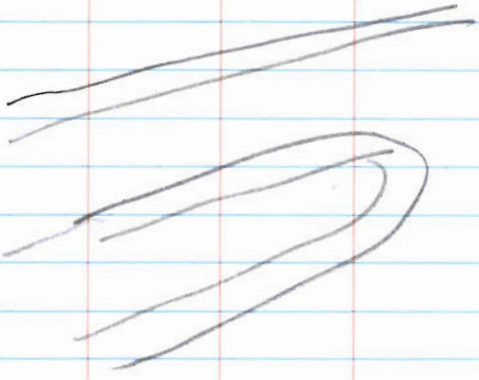
RDW 1711 N 65 E 60 SE mica schist
/gray above cgl base at WP 139
N 37° 05 384 W 79 51 773
3/15/06 Happy Birthday MJ

WP 141 RDW 231 on flood plain
Wills Ck 3' brown silt and
then 3' dark gray silty clay
photo at 37° 07.516 79 47.516

RDW 232 N 55 E 60 SE Mylonitic layer WP 141
N 37 07 435 W 79 47 477 lineation N 80 E 28 NE

N 37 07.507
3 115 106 WP 142 W 79 47.345
RDW 311 N 50E 59 SE coarse
augen gneiss mylonitic
Foliation schistose layer
w 1" fel pb strung out tank
RDW 312 WP 143 N 37 07 327 W 79 47.255
large cobbles in stream slopes heavily
pullied w/qtz mica gn sap amp Flt

RDW 233 N 55E 45 SE Cy bio augen
gneiss ledges in stream @WP
Massive whale back no schist
WP 144 N 37 07 360 W 79 47 680
RDW 234 WP 145 N 37 07,362 W 79°47,846'
N 50E 40 SE photo of coarse
bio augen gn ledge at
edge of Flood plain
RDW 235 WP 146 N 37°07.203'
W 79°48.103'
N 65E 50 SE ledges of Cy augen
gneiss in road embankments
RDW 236 WP 147 Big Spring
N 37 06 966 W 79 48 009
N 65E 58° pebbly gneiss and schist
tarke in woods above.



3/31/06

RDW 157 N 55 E 30 SE silvery gray mica sch/gn in stream at base of stratified schist seat

RDW 158 WP 160 N 37° 05.797' W 79° 51.085'

Ledges of med to cg pebbly metarenite (Photo) N 55 E 20 SE

RDW 182 N 65 E 60 SE ll laminated metagraywacke/mica schist (silvery to dk gray, top of fining upwards cycle

RDW 741 behind applebys next to peebles at WP 161 37 00 772 79 51 964 photo thk bedded h two mgw gneiss + silvery mica schist saprolite

RDW 742 Mafic Float on spur ridge behind Peebles Store

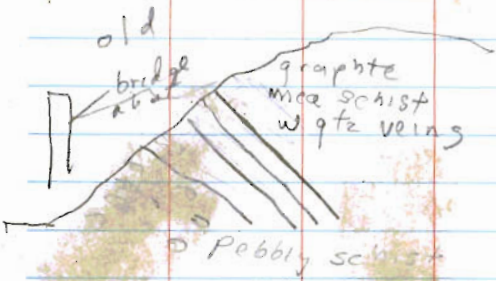
RDW 743 large block of pebbly bio misc gn by pond at N 37 00 731 W 79 51 857

RDW 744 N 70 W 75 NE ledge of mgw WP 162 N 37 00 717 W 079 51 834

RDW 745 photos of 30' wide layer of cht talc rx @ WP 163 37 00 673 79 51 902 bearing 130

Bambrook. Mill

graphite schist in less than 50' of section



Pieces of old Mill + qtz vein

pebbly schist @ 37 06 . 225
79 52 486

N62

Aug 10 2004 Redwood Qud h-t

RDW141 37 06.171 79 52.321

Below 635 bridge over Maggadee RDW141

OC gray - brn weathed med - fine mica gneiss or MgW SP 141

N46E 42 SE Sj foliation N60W vert joint

N25W 70 NE joint

RDW142 37° 06'.151' 79 52 282 mass to bk layered ledges of mica gneiss. N60E 45 SE Sj

RDW143 N60E 43 SE sheated bio gneiss w feld flatened augen 1" black and white biotite felsic basal cgl or basement? Massive ledges, brown soil

37 06.026 79 52.241 qtz vein float

RDW144 N42E 52SE bio myl gn cap in stream

bnk 37 05 976 79 52 159 N60E 50 digital image of stretching lineation

RDW145 N50E 50SE Massive bio augen / fluser gneiss in stream @ 37°05.925' 79° 52.097

RDW 146 37°05.871' 79 51.971' N50E 52SE Massive ledge on bank and in CK low td or 91 ~ 15' above CK

RDW 171 N48E 58 SE coarse fluser gneiss

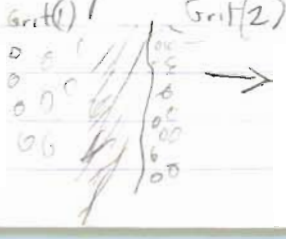
@ large ledge along stream 37° 05.686 79 51.750

lineation caused by elongate feld p-clasts N74E 50 Digital images of struct p clasts up to 3" long pencils

RDW 147 Photos of qtz vein in mica schist close up of pebbles in schist or diamictite grades upwards into

RDW 931 Foul ground Ck Nov 13 '90

base of mafic section is um(TTS)
layered qtz/act schist (mb above) then
gtz plag chl musc blo gn/sch excellent
"pin stripe" comp layering typical of
Rankin et al "Alligator back)

RDW 661 Nov 14 '90

Black Water River - Lyg pebbly gneiss
graded beds & cross beds indicate NW
RSU Facing Log Jam beneath bridge
Canoe launch possible