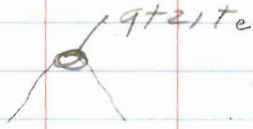
Aug 5

SLM 481 in Old Virginia Pit

devonian shale ~ big cleavage

(A) Zone N 45E 35 NW slicks plunging N 70W at 26° (B) N 55 E 45 NW ~ bedding plane cleav (C) N 25W 50 NE fracture

c)



qtzite caps hill and on highwall across way ? infold or landslide

SLM 482

N5E 55 SE OT bed in dk siliceous siltstone next to bridge in bottom

SLM 483

Apparent Karst on terrace above creek

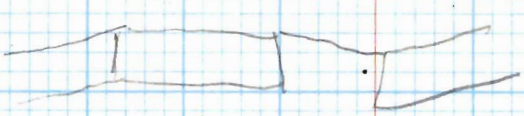
SLM 484 pebbly quartite bldr in yard - looks like old terrace deposits

SLM 485 N 35E 75 NW steep faults cuting Omb sh at corner

N 55 W 64 SW slickensided (calcite fibres) plunging S 30W @ 80° seps

Gentle Faults? N 10 W 30 SW

SLM 874 N80W 65 SW cleavage in fsa massive breccia bed (arkose) bed N20W 15SW cut by 9 series of faults



N 30 W 30 SW

SLM 875 ferruginous ss pos fc prospects

SLM 876 coarse porphyroblastic granitoid gneiss N 50W 12 SW to 20 SW on basement surface N25E 18SE LOMA.

SLM 877 N 60E 10 SE fg lt gray laminated phyllite (meta silts)

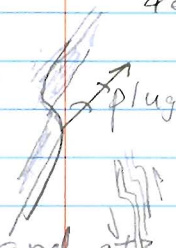
SLM 761 N70E 18 NW fg weathered vesiculated phyllite + basalt

Hills below in flood plain gnarly tuff textures as well

SLM 762 N70W 20SW Metabasalt breccia outcrops on embankment NBL

SMD 313 silverg mica phyllite gre
chtd? pbs N 60E 60SE
cleavage

SMD 681 N38E 84SE comp layering thin
layered slt / phyll dextral shear Fabric

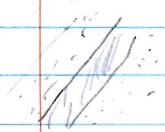


pluging N44E 6°NE

SMD 682 SS and qtz pbl cgl Flout
on gentle nose @ el 1320 b 3/4" clast

3/4 1

SMD 683 N40E 70 SE dk gry fine sand
stone beds, 1" thick with dk green
sh / phyllite beds 1/2 - 3/8" thick

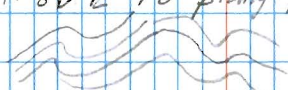


SMD 684 N70E 60NW med spaced bedding
cleavage N40W 30NE

possibly in vertical
structure?

plunging S1 x S2 = N30E
@ 6° NE

SMD 962 N60E 20SE white mica schist
(Mt Athos) saprolite in bank ~20'
bluff with td or Qc above

SMD 9713 Thk layered amph schist/
amphgn in stream N 60E 70NW
SMD 9812 Mica sch/Felsic gneiss with
qtz-feld partings - looks like
metavolcanic section ≅ 9712B N60E 70SE
Just below Flaggy blk+white = gry
salt and pepper bio gneiss comp
lavering E-W 40 NW
SMD 982 N20W 16 NE gentle dipping
thk layered biotite granitoid gneiss
Flat foliation
SMD 983 N80E 10 plung NE anticline in
OFF MAP

layered biogneiss in E W Flowing stream
SMD 983 N70E 70 N thn layered biogn
in stream bed
SMD 984 Button schist layer in dk. S+P
bio gneiss N15W 5° NE, act schist in st
SMD 985 Red clay soil large epidote blocks
6/7/00 SMD 361 N20E 60 NW cg sparking
silver musc schist beneath sandy
terrace
SMD 362 N60E 70SE OC of ms in
old road
SMD 311 Roach Cemetary ~ 300' by 50'
SMD 312 Phyllite OC N45E 70SE

white qtz partings N38 E 60 NW

SMD 865 N58 E60 NW el 1480 b gry fg sndy phyllite/qtz schst, break in slope above

SMD 866 el 1540 b 6' thick white qtz ledge, pebbles preserved N 30 E 80 NW

06/06/00 N20W to tower on SMITH MTN

SMD 971 cobbles of ∡ qtz, qtzite in red clay soil, heavy mineral wash below recent terrace excavation "leathery" mica schst chips

SMD 972 angular qtz gravel in stream

SMD 973 angular qtz on slopes some with graphite phyllite "skins"

SMD 974 N 60E 56 SE coarse qtz sand stone or qtzite OCS, rounded form bedding thick ~ 3'

SMD 975 N45E 70 SE compositional layering in dk qtz graphite schist, abundant gritty qtz schist float blocks and cobbles along roadside

SMD 976 Lot #6 new well at house (Log) under construction, coarse grphite mica schist, dk gray shiny cleavage

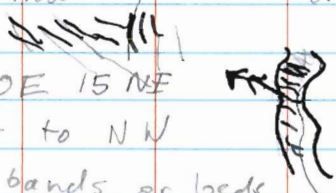
SMD 977 N56E 66 SE myl foliation in intersely cleaved qtzite sap in road. Magnetite pb schist float on ridge crest ~ Mt At

SMD 978 N60E 45SE Old blue mica schist, lineation N80E dextral

SMD 979 sticky red clay soil, vein of epidote qtzite, amp schist float brown soil in Field, green actsch blocks

SMD 9710 Soil color changes at saddle pale orange pink mica gn/schist soil Silvery mica schist chips, white vein qtz

SMD 9711 N55E 80 NW Flat layered-Flaggy Salt and pepper textured biotite gneiss looks like anticlinal nose or roll over plunging



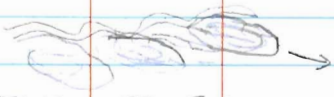
SMD 9712 N60E 15 NE mica gneiss about 50 feet to NW med-thin

SMD 9712A compositional bands or beds N 60E 50SE Rolls to 60 SE cleavage is gen. than bedding

SMD 9712B mica schist partings in gy mica gneiss SMD 9712C

schist in stream N70E 55 SE

button or C+S structure producing mica fish ~ 2" long plunging N80E 5°

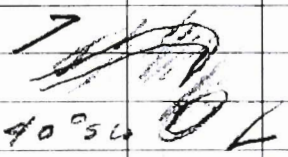


Foliation N 70E 72 SE

Shear bnds N45E 60

SMD 324 N35E 40 SE thin bedded mgw/phyllite
2' thk qtz vein

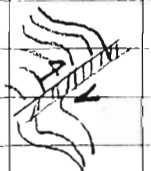
SMD 325 Folded qtz vein along fault line



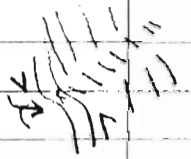
plunging hinge

S70W 40°SW

SMD 326 mgw/ms N30E 20SE thin bedded back
kink bnd EW 49 N



SMD 327 N30E 50SE Folin in massive phyllite kink
loc in middle of OC
hinge N45E 15NE



SMD311 large diabase
in stm phyllitic Oc, cleavage trends
N38E 60SE

SMD 312 NS 60 E silicified shear
zone, phyllite has tiny pbs less than
head of pin

SMD314 NNE 50' diabase dike makes break in slope
rounded quartz gravel in red silty soil on noso
old terrace level

SMD 315 very pb (old) mica schist at head

SMD 316 thin bedded SS - slts N45E 60NW
cross beds indicate NW facing at
1660B

March 22 SMD

SMD 751 el 1900 el kink bands N50E 50NW
layering N30E 70SE

SMD 752 pebble cgl float on gentle
sloping nose N30E 70SE schistosity
in qtz chl mica schist with
sandy lenses so down hill

SMD 753 N40W 40NE cg cht ctd sch
layering, more coase sand float on nose

SMD 783 N60E 60SE layering appears
rotated on slope possible drag
on normal fault scarp

SMD 784 depression or pond at foot of slope

SMD 785 2 large (10 x 40') qtz whale
backs trend N5-10W ~ vert, highly
fractured, spring enters branch below

March 27 2001

SMD 321 N40E 60SE Folded cleavage with lineation
2nd cleavage N38E 30SE Pencil lineation
S40E 68SE streaks on shallow dipping
cleavage S5E 10SE

SMD 322 big karst? spring 50 x 100' gravel
filled many turkeys in field above

N30E 70SE Foliationgy grn phyllite in stream

SMD 323 stream cuts old dam fol in
gray mica schist N40E 50SE Qtz Pod in
fold phyes S30E 48 dextral ?

6-5-00

SMD 941 el 850b N50E 55 NW
grn and rd weathed phyllite + sl tsn
tan chips, cross cren, cltd pks
qtz veins

SMD 942 el diabase bldrs in road bed
in saddle area

SMD 943 el 880 N34E 80 se schistosity
in chlorite mica schist sap - First
OC since diabase

SMD 861 N10E 60 NW on road
at el 840b below power line

SMD 862 N30 66SE lam phyllite, gray
to green, tight folds plunge S36W el 10°

beds
dip

N10E 80 NW

SMD 863 N40E 70 NW Bl ish gry
qtz mica schist / qtz ite, layered
med-fine sand el 1100b in fire
area

SMD 804 el 1290 ocs of dk gray
quartz semi schist (meta graywacke) laminated

PLT 994 highly lineated, crenulated
Schist sep N80E 38 SE est
52600
SMD 141 N55E 60SE medium bedded
tan-gray metagraywacke, - coarse
qtz mica gneiss
SMD 142 N35E 60SE green-gray
actinolite shist ocs in
road and at stream crossing
a large ledge (um?) N60E 50 sc'sch
bedding??, N70E 20SE
SMD 151 old cabin site chimney + Found
built of cg mica gneiss an um
logging to East

SMD 152 N60E 60E act schist beyond
old house with concrete well casing
150 from Field at drain
SMD153 diabase bldrs on slope
Unique dixe-ola bottle

SMD 154 Dense ultramafic rock,
act/ pyx + olivine relics on
point
SMD 155 N60E 70NW med-thk bded cg
Meta graywacke gneiss in stream cut
by veinqtz. Flood plain 300' wide

SMITH MTN DAM QUAD

SMD 331 N50E 70SE

comp layering in mafic schist SPL

SMD 332 iredell soil on top of knob GPS

37 07 .351

79 30 .042

SMD 924a on right bank
22' boulders in
base of ta
SMD 925a on left bank
large cliffs chl mica
schist N40E 70SE

Nov 26 1990 SMD 161

prepared spring and Foundation stones for Still, near int of 2 streams

SMD 162

Oc of dk gn-blk and wht layered, cg hbd plag gneiss (moneta detral Folds well displayed ~ 5-10 cm

N45 E 72 NW env surface

Ap N60E 65 SE

Hinge S50W 90° - good for Nature trail Stop

Area ~ 50' dia that may be SMD 162

Karst related in saddle, mica phyllite, qtzite cobbles, Large block of tremolite act schist - asbestoform Minerals on E slope

NOV 26 1990 SMD 191

DC GF dk gy sparkling mica schist, contorted crenulated possible Staur (spl) rich layers Strain-Slip cleavage N60E 50 SE is axial planar to crenulations plunging S40W at 19

NOV 27 Church on a Rock SMD 181

MOODY MEETING HOUSE FOUNDATION

IS ON OUTCROP OF MONETA HBD GNEISS WITH STRONG LAYERING N30E 75SE Typical Cockade Ha Weathering

SMD 961 - along Roanoke River 01/27/91 Monday
20' ledge N60E 60-69 SE Mt. clear sunny mild
Athos white II lam gneiss

SMD 9621 cleavage bands 01/28/91
Incandler

SMD 561 01/29/91
Outcrops of interlayered bgn + mica phyllite
typical upper Lynch - good place to
see Catlder contact

SMD562
Outcrop of Greenstone volcanics (act bio schist)
at boat ramp entrance road - good exposure for
field stop 1

SMD 141 AUG 28 '90

garnet mica schist in Foundation Garnet Group

fine biogneiss in well cuttings possibly

Abd bearing

SMD

NOV 27 SMD 182

OC in parking lot lawn of sheared meso cratic hbd gneiss, intense cataclastic foliation or inherited tuffaceous foliation

NOV 27 SMD 183

Pavement and Cockade hot OCS on point in Pic Nic area med grained hbl-epidote plagioclase gneiss, epidote pretty olive green

NOV 27 SMD 184

Outcrops of hbd gneiss show strong cross joints = spaced cleavage trending N30E 70SE possible cross bedded tuffaceous bedding

NOV 27 SMD 185

Large block in front of bath house cpx contains a lot of relic pyx, would be good section for display

NOV 27 SMD 186

Outcrop of typical lyg with 3" thk amp layers that weather in positive relief in cut ditch NW side Qtz Gravel on Hill above

Bldr of qtz epidote iron ore, dump-Fe prospect??, spring Fg act sch (Clys mb) SMD 187

SE dip reversal. small Folds give SE Facing

culvert on Tuttle island trail exposes SMD 421

SMD 421 NOV 28

oc of fine grained blk amp sch/gn then chl talc rock then fg blk hbd gneiss with pin stripe texture

SMD 422 NOV 28

spl of very hard altered mafic igneous rock (pyroxenite? olivine norite?) struct below layered fg amphibole gneiss (Metabasalt

SMD 171 First [illegible] NOV 28

coarse mica gneiss (slt [illegible] interlayered with amphibole gneiss N 80E 25SE gental fleavage also [illegible] gentle cleavage with MN stains

SMD 194 NOV 29

oc of med grained qtz bio mus gneiss (metagraywacke)

SMD 163 oc of chl act talc schist rusty dol or pyrite bugs spl

Variegated yelow-rd micaceous clay with qtz cobbles most of which are broken and angular mottled texture in part due to root penetration, unit probably developed on upper level gravel or lag deposit above fg mica gneiss (meta SS unit)

SMD 422 oc of fg layered bbd gneiss N52E 82 NW 1' x 3' in trail

SMD 188 Turtle Island 27 NOV

Very finely layered amphibole gneiss pavement OC

ripples? mafic pillows? lapilli ?

Type 3 int?

SMD 231 NOV 28

thin banded mica gneiss some dk orange weathering bands may have been carbonate rich.

SMD 541 NOV 30 1995

New Well in Bio - Mus Schist/gneiss

SMD 542

New Well in Bio - qtz schist/gneiss (Fg) with distictive green epidote crystals interspersed through biotite

SMD 771 Jan 22, 1991 War Rages in Middle East good Outcrop of "Mt Athos" White Mica Schist at Boat Dock "The Harbor".

SMD 791 Jan 22, 1991 - Spl of Qtz tourmaline rock from dike crossing SR 918 (Lakeside Rd)

SMD 963 large qtzite blocks on nose
N40E ? 10' ledge form ~ 50' long
goes up nose and stpo: Foliation
N55E, 80 SW (spaced cleavage, bed form
either vertical or gentle ~ 15° SE
SMD 964 strong ledge form ~ N45E ~ 15S
massive qtzite, white ledge could be
up to 10' thick el 780b Not correct
SMD 965 el 880 top correction 30-40'
predomanant blocks ~ 10-20 below on
slope, smaller bldrs below those
SMD 986 heavy sandy colluvium in stream
bank ~ 200' wide strong floodplain
most large qtzite near ~ 20' of
summit
SMD 987 el 840 b ~ 2' wide blocks of
white qtz ss + qtzite no strong ledge
SMD 988 el 980 b ang qtz cobbles
some qtzite gravel white sand tl top
No ledge
SMD 989 Red clay, md qtz cobble tl
on gentle slope
SMD 9810 N20E 10NW sap of mafic
schist w/ epi qtzite layers
SMD 9811 N60E 70SE green act schist
sap between 2 old barns

SMD 9812 bio gn sap blocks in ploughed field

SMD991 N60E ~ vert?. qtz or float qtzite in road.

SMD 992 Fork Mtn staurolite pseud. schist Float in road

SMD 993 N55E 50SE coarse chtd / staur pseudomorp schist crossing stream, white mica schist N45E 40SE comp layers NO Pbs ~100' feet up stream Fork Mtn / alligator Bct

SMD 994 N 30E 80NW ch musc sch in greenstone sap.

SMD 995 comp layer in metn basalt epidosite seq

SMD 996 6' white qtzite some epidote in matrix, interbed? in greenstone mgl schist N64E 55SE