April 19

BBg 982 N76W 60 SW
light gray microcrystalli
limestone interlayers
in thick bedded gray
x/line dolomite L Ob
N 37° 08.314 W 80° 23.60
Abundant chert along roadcut
mostly white replacement masses

BBg 953 thk bedded Fig. gray lam
dol. N40W 70SW Obc
N 37° 08.381 W80° 23.642
BBG 983 Thk bedded gray dol
outcrops in RR cut and
stream bed Brn Butcher Bloo
Weathering porous cherty zone
Obc N37 08.307, W 80° 23 575
Bbg 984 N76W 60 SW lt gry
sandy dol with thin silica and
rexline dol veins 75' wide
alluvial fill Photos of lam
N 37 08.261 W 80 23 548
6" algal chert stringer
algal thrombolite

N 37 08.157
W 80 23.443

Looks like to Oco

BBG 985 Light gray lam. dolomite interbedded w blue-gray cherty dolomite N 66 W 46 SW some thin blk shl layers

BBG 986 lt gray to pinkish tan (salmon) xline dol replace algal boundstone - thick bedded w/ algal matting, weathered in relief ~ 10' zone 2' beds at N 37 08 226 W 80° 23.529

BBG 9618 lt gray chert finely xline dol w/ algal matting (Obc) N 50E 46SE N 37° 08 364 W 80 22888

BBG 9619 N 40E 5 A SE 18" Fine dove gray micrite bed Obc N 37° 08.385' W 80° 22.916' (Photo)

BBG 9620 N 80E 70 SE 3' thick ledge of thin bedded laminated light and dark gray xline dolomite (Photo) N 37° 08.38 W 80° 22.930

NOV 28 2011

BBG-35 12 N 10 W 12 NE

2' gray dol ledge beside 401 Clairmont Dr, abd cross bedded orange-brn SS Float on slope above

BBG-327 corner of Fincastle and E Roanoke St - bluish gray algal dol / ls coarse cheat head lenticular bedding abundant fossil hash layers [ ] cephalopod

iryozoa gental karst on top

Siberian traps

Permo Triassic boundary

Great Global Warming

CH_4 - CO_2

U sequestration

redox state

in the oceans

due to global

not weather

- marine

WP 483
N 37 08.463
W 80 22 891
el 2140

Page 2

N58E 5 NE

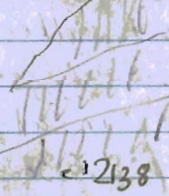
BBG 962 B brecciated dot, ledges along road look like lower
N 37 08 514
Ecl @ WP 484 el 1923 W 80 22 [illegible]

BBG 966 500 gpm spring emerges from hillside at WP 485 N 37 08 514 W 80 22.747 el 2043

BBG 967 Quarry like bench exposed MM breccia, green and yellow brown at WP 486 N 37° 08 619 W 80 22 807 el 2020 1

BBG 968 N 20W 70 SW slaty cleav. in gr[illegible] brown weathered slaty argillite at cut near WP 487 N 37° 08.675' W 80° 22.896' el 2482 bedds N 30W 30 SW

BBG 969



WP 488
N 37° 08.748'
W 80° 22.806
el 2138

thin bedded gray argillite interlaced w broken dot folds, plunge S 30W

BBG 9610 E-W 505 med bedded gray dolomite in Cut at WP 489 N37 08.784 W80 22.718'

BBG 9611 highly deformed zone in med bedded dolomite then blue gray ls. BBG 9612 WP 490 N37° 08 819" W80° 22.618' el 2040

BBG 9613 WP 491 N37° 08 786' el 2026 W80 22 544

N52E 20SE massive gray dol w/ butcher block text interbeds of gray ls

BBG 9614 massive to thk bedded gray dol with butcher block text N60E. 82SE along road below house Site @ WP 492 N37 08 749 W80 22 [illegible] el 1998

IRO 745 straticulate dolomite in stream bottom thin bedded laminated and siliceous yellow orange weath. Sandy soil above w/ SS cobbles in alluvial soil WP 493 N37 08 638 W80 22 367

Photo of chert bed at gray dol
N 37°09.391 W 80 22.935 dk gry ch
6' chert nodule
BBG 9621 E W 65 SE
massive gray grainstone
Photo of angular dol
pebble cgl in cut near
Beekmantown unconformity?
N37 08.374 W 80° 22.910
Bbg 96 22
Grainstone, gray massive
bedded along 460 cut
~70' thick est
N 37° 08.412 W 80.23.012
dolomite pebble cgl
BBG 9623 N 22E 48SE
gray dol N 37 08 465
Bbg 9624 W 80 23 096
Bbg 9624 m 20 W 70 SW
Beek sap + chert
WP 001 N37 08 412 e12153
W80 23 161 Slope
failure along 16" drain

Bbg 993 collecting site
on walnut Branch
N 37° 07.644 W 080 23.335

Bbg 987 cobble locatio
WP 002 N 37 07 633 W 80 23 36
el 2107

BBG 993 el 2142 N 37 07 941
rounded qtz ss W 80 22 961
cobbles (Eco) N 66 W 76 SW Eco
saprolite

BBG 988 at Buckos - large ∡ blocks
of ss

BBG 994 Starlite drive inn at
WP 004 N 37 07 837 W 80 22 901
2212

BBG 995 vacant lot at WP
Blue Ridge derived pebbles el 2135
N 37 07 598 W 80 22.912

BBG 996 Behind Auto zone lote
N 80 E 50 SE Brn weathered
straticulate bedded
dol w stromatolitic silty
banding Eco

Nov 1 2011 BBG-3912

N 30 E 20 SE massive
bedded pearl gray x line dol
el. 1990 ft (kingsport like)
N 37° 12.957 W 80° 23.023

BBG-3913 N 10 E 20
at lot site drive el 1650
Fine gray micritic ls thk
ledges, much chert in
regolith below
N 37° 12.847 W 80° 22.515

BBG-3610 el 18406 N4W 16NE
N 37° 13.643 W 80 22 572
gray dol 2' thk ledge
over lies dove gray
micrite at el 18406

BBG 3611 Massive gray x line
dol w/ fracture zone
beds N 20W 14 NE
Fractures N26W 60-70
N37° 13.722' W 80° 22 692'

IRO-1712 N 30E 15 SE
Pavement outcrop
fine gray x line dol
w/ mud cracts el 16006
N 37° B.158' W 80° 22 .317

BBG ~ 3612 N10E 26SE
thk bedded fine x/ln
gray do' el 1680
N 37 13.267 W80°22.445
BBG - 3613 el 1730 b
N 18 E 16 SE thk bedded
dol in stream N37 13.357 W80° 22
broad scarp on NE side
of stream very old,
not much debris below
75' above N20E 60NW
Step in stream N3713.380
beds or joint W80 22.560
BBG-3614 N5 15°SE ledges
in creek scarp to SW
possible spring interstices
vadose zone dissolution
(photo at el 1760
N 37°13.407 W 80° 22.642
BBG-3615 el 1800 b
N4W 12 NE bearing
on waterline in thk
bedded gray butcher block
dolo micrite - caves? on
NE slope N37 13.440
block debris in stream below N80 22.772
beds on SW side N20W 18 SE

2400

BBG 3616 el 18506
photos of 200' cliff
or bluff to SW
photo of Valley Fill
at Quarry N37 13.478'
stream clogging W 80° 27.932
w/ block below cliff
IRO-1 7 13 Fine micrite
dove gray (on)
at el 1620 were side
branch comes in to
main stream (N37°13.187'
IRO-1-7 14 W80° 22.348'
siliceous tan dolo micrite
N 40 E 8° SE thk
beds to stream
at el 1600 6
N37°13.142, W80 22.280
sparks w/ hammer
IRO-1-715 50m from NCR
at el 15806 N 12° 12 SE
thk bedded fine grained
gray dol + chert mass
in float on slopes.
N37 13.128 W80 22°.281

Nov 2

Photos of NE side
large stromatites
curved highwall
N37°13.470 W80 23.083
bedding steepens to N6E 14S
N6°W 8° NE BBG - 3617 (SE
NW
SW pit N 24E 70 SE
small fault in HW
at N 37° 13.380 W80° 23.120
Bedding N 4E 10SE
Fissure 6 - 2' for
25' long 6-8' deep
w/ dissolution as well
as pull apart structures
Bedding N 24W 10°NE
BBG 3618
Cross
Sect
Chert
nodules

photo of
floating
collonies
a N 37 13.302
W 80° 23.117

Plan
of Fissure
SD R. B.
N7W 16 NE

N54E
80NW

\ 9/26/11

BBG 625 N 20 W 15 NE.

chk on google lt gy fg Xline dol in sed pond L shaped

BBG 626 602 Cedar Hill Dr N 20 W 20 NE

ledges of lt gry dol in front yard.

BBG 627 at old BBG treatment

Plant ledges of gray fg Xl dol N 36 W 18 NE

Ledge below concrete tank N5 60 W clear?

BBG 386 9/29/11 Nellys Cave Park

light gray algal dol, thk bedded w/ wavy siliceous partings

N 37 12.617 W 23.525 (?) thrombolite.

N5 - 20 E dip

BBG 387 Photos of eroded algal mounds in lite gry xline dol. - massive bedded behind picknic shelter

37 12.583 80 23 512

Photo behind baseball diamond

N 37 12.560 W 80 23.505

sandy laminations = ribbon ex

BBG 627 N 31 12.475
W 86 23.397
Lite gry fg xline dol
in field ss float on
slope below N 18 W SE
Oct 3 - 2011
BBG 388 Vacant lot
For Sale - trailers gone
ltr ss + dol float on
Fence line = Ccc but not
top - ss throughout
upper ccc section?
BBG 389 Laminated light
and dk gry dol w
sil partings, rip up beds
prism cracked lamaflex
N 10 W 10 NE el 2160 b
BBG 394 lt + dk gy laminated
massive dol w/ sil silty
lam weathered in
roadcut 2140 b NO SS but
wh sil oolite OCS across road at
BBG 395 2108 spot of
thin bedded gry dol (Phos)
N 10 W 8° NE - chepultepec
upper Stonehenge interval ©

BBG 396 ~ 2100 T

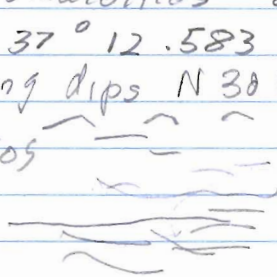
N N3712.310

BBG 397 ~ 2010 W80 22.80

N 14E 10SE massive gray dol w/ clotted text (Oc or Ost?)

10/19/11 BBG 3810 corner of London and new Kent Oc of corase gray flat pbl cyl (Oc-cco unit stromatolites on top of bm N 37° 12.583 W 80 23.732

bedding dips N 30 W 60 NE



BBG 3811 dolomitic ribbon rock 1-2" wavy beds with small algal bioherms N 50 W 20 dol fg grg w/ siliceous partings, tan weath

N 37 12.635 W 80 23.610

10/5/11 BBG 398 N37 12 820 W 80 22 689
N20W 60 NE
Massive bedded chert & gray dolomite

BBG 399
N50W 18° NE Massive gray recrystalline dol w/white chert layers up to 1' thick. Grades up into massive-thick bedded bluish gray limestone at N 37° 12.657 W 80° 22.56 el 1820 b.o. road
1 of 88

BBG 3910 massive gray micritic ls w thin silty partings - dissolution stylolites (Photo) past intersection of Woodhaven and Deercroft
Photos of ledge N10E18SE
N 37 12.627 W 80° 22.523
el 1830'

N 37 12.54
BBG 634 el 1810 W 80 22 427
Massive dol - fg above
very cherty interval
N 20 E N10 SE,
10/5/11 end home loc
N 37° 12.655 W80° 21.70

10/6/11 BBG 3911 massive gray
line dol, fg, thin silica
laminae weather in
pos relief, scours
x beds = tidal flat
environment w/ mud crack
prism structures =
N 37° 12.822 W 80° 22.980
Photos = Oc N 20W 16 NE
at el 2070
(5) BBG 635 cherty mod gr la
N 30E 15 SE, small algal
heads covered by silic.
ss or grainstone
(6) BBG 636
N 60E 20SE fg mass
micritic ls or dol
(7) BBG 637 lt-dk gy
mod xline dol - mass

beds w/ thin sil parting
butcher block weath
abudant chert regolith
above N 24E/18 SE.
Massive beds. 100' dia
20' deep sink hole
about 75' sout of road, to
Sample For. acid test
BBG 638 N 34-10W 14NE
thk bedded med gr
Xline dol minor chert
Float
BBG 639 ~ 50 above 20' wide
30' deep doline is a 2'
thk white chert ledge
N 20E 18 SE which is
cap rock for the ridge

BBG 6310 el 2150 Small
doliness ~ 20 dia - 2' deep
filled w. chert debris
TO-T= 11 BBG 355
N 24 W 12 NE Com
tan weath dol in
Estes Front yard
N 37° 13.633 W 80° 23.877

10/7/11 Estes Farm

BBG - 35G N 20 W 14 NE

an air strike on med bedded dol ledge in drain. at el 224

BBG 357 N 30 W - 20 NE

ledge of tan-brn weath thin bedded - shly dol in drain at 2200

N 37° 13.677 W 80° 23.605'

BBG 358 el 2120 N 37° 13.683 W 80° 23.552'

ledge of tan weath dol in stream

Fg, massive, N 60 W 16 NE

karst spring at el 2100 6

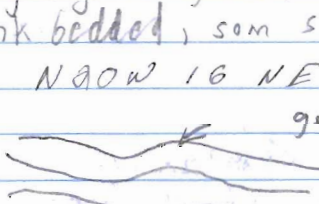
N 37 13.865 W 80° 23.537

BBG 359 el 2090 6 N 37 13.682

gry fg dol, med to W 80 23.49

thk bedded, som sil lam (silt)

N 30 W 16 NE OG



BBG 3510 el 2060 6 gray dol ls w thin yellow weath

silt sn layers, some sort of sulfide mineral has been oxidized leaving rusty spots, mica plates or qtz give sparkling lustre
N 37° 13.687 W 80 23.445
N 20 W 18 NE on shly pty ab
Fine sandy chert layers in regolith below (el SPL) of Drusy qtz x/s
BBG 360 el 2000 ± N37° 13.780 W80° 23.373 lt gry – tan weath thk chrt Fg thk - thin bedded dol
N 70 W 10 NE in stream
strongly jointed Frac system N 12 - 14 E 70 NW
BBG 361 el 1990 ± at Y intersect. of streams Fg lt gr dol Med thick beds, strong jointing evident, beds N 15 W 12 NE
N 37° 13.828 W 80° 23.275
Joints N 5 E 85 W N 80 E 80 N. Photos of big bldrs in ld below confluence

10-7-11

BBG 362 el 1830
VTE 10 SF, Fg gry dol thk bedded in stream
37°13.885 W 80°23.120
Very quiet woods / young Poplar Stand some old oaks have fallen
on slopes, 40' wide al deposit, many blders
BBG 363 el 1800 ft at confluence - landslide deposit to N, pavement of thk bedded gry dol
N30W NO NE -
coarse alluvial fill belo
6 sets N 37°13.907 W 80°23.05
photo of
steep imbricate sect in stream below =
fold? or Fault zone
BBG 364 el 1760 6 N20W 10 N
cascade below landslide headwall ~5' al above bedrock N 37°13.902 W 80 22.941

10-7-11 6 satellites N 37° 13.918'
BBG-365 el 1750 b W 80° 22.827'
yellow brn mottling dol above
bluish gray wacke ls
in stream bed, algal
struct in lam dol above
(Photo)
6 sat.
BBG 366 photos of burrowed
uppor Beekmantown Limestone
In stream el 1720 b N 37 13.942
N 10 W 10 NE W80 22.788
burrows are in muddy zones
Separating pure gs beds
some coarse
6" tufa cemented
blocks
BBG 367 el 1710 at confluence
still in thk bedded burrow
mottled Beekmantown Ls N 20W 10N
N 37° 13.957 W 80° 22.732'
Silty lam dol ls below
w 3" x 1/2"
Photo cht nodules
looks like O1
Flood plain blocked w/ ls blds
below confluence

BBG 368 el 1690 ± below confluence is med bedded fine - cg dolomite in stream N 30 W 20 NE N 37° 13.977' W 80° 22.648'

BG 369 el 1675± N5E 10SE 2' ledge of thk bedded gry dolomite in 200' wide braided debris flow Filled Valley

BBG cross Fence line in wide alluvial Filled Valley at el 1660 N 37 13.983 W 80 22.527 10/17/11 Blacksburg

BBG 291 in Field area at VT N 37° 13.325 W 80° 25.0 gray to yellowish rd (weathers) argillaceous dolomite highly Fractured, yellow and reddish shly chips in silty clay loam Joints N62W 66SW N12E 46NW Bedding CThin N30W 24NE Vline veins

10/17

BBG 292 photo of 3" qtzite cobble in situ on td above Football practise field at edge of wooded area N37°13.330 W80° 25.000

2' white silty top soil
3' cherty sdy soil
then orage clay loam w/ dol and slate chips

BBG 293 on road bank opposite ew runway at N 37 12.653 W 80 25.047 copples and pebbles in sandy soil = old td some lithic frags from Price? or Vmc6u are totally Rotten 3 Photos

BBG 372 RR and Runway no longer exist

BBG 534 black slate / anthracite OCS in new pond at N 37° 12.267' W 80 25.012'
Price formation Coal extremely cleaved N20W

conversion 37° 12.267.0 42 NE
DMS 80° 25.0 12

10/7/11 IRO 1415

just past bend/saddle
ine ledges of thk
beded dk gry Micrite
On (newmarket ls)
N 37 13.902 W 80°22.002'
el 1.5606

IRO 1416 20' section of
thk beded gr ls N8W 10S
at el 1540
N 37 13.820' W 80 22.005'

Oct 24 2011 Blacksburg
BBG 581 NS 80SE light
gray sheared dol ? fault
zone near rail switch
Huckleberry N 37° 10.237
BBG 582 W 80° 25.012
50 E 40 SE Mme red mudsn
w/slaty cleavage
N 37 10.393 W 80 25.872
gray mdsn and blks of
gry ss just N of drain
(50 - 75')
BG 583 N 80 E 20 Mass
bedded red mudsn ledge
N37° 10.522 W 80° 25.930

grooving lineation on beds
S80E 20 SE
BBG 584 Price SS and
Shale outcrops greenish
gray fine grained slt +
SS Slaty Cleaved Mdst
Red Stops at N37° 10.592',
Contact covered W80° 25.947'
BBG 551 Thn bedded grey
SS W Cross beds N 70E
20 SE N 37° 10.905
W 80° 25.963
BBG 552 Concrete plug on Ma
adit of Merrimac Mine
N 37° 11.173 W 80° 25.855

BBG 561 Thin bedded SS
OC behind restroom. N54E 24SE
at N37° 11.247 W 80° 25.763
BBG 562 Thk/Mass X bedded grey
N 30W 10 SS beds
N 37° 11.340 W 80 25.198'
BBG 641 N 20E 16 NW
N 37 11 397, W 80 24 755
BBG 642 N 84 W 12 NE
Thk bedded SS (Photo

Photograph N 37° 11.743, W 80° 24.850

BBG 642 - could

BBG 643 N 60 E 34 NW
N 37° 12 027' W 80° 24.972
thk bedded SS ledge
on cut

BBG 535 EW 24 N red
mdsn w/slaty cleavage
in ditch along bike
trail at N 37° 12.125'
W 80° 25.005'

Mmcl

BBG 294 EW 10 N
lt blue gray algal ls
w clotted texture low
ledge along Dairy Center Road
N 37° 12 528 W 80° 25.535
cl

July 21, 2011.
Cedar Run

BBG 662
N 80 E 40 SE butcher
block tex thk bedded
gray dol el 1640 b
(D.Phil

BBG 663 photo of
c/s struct in dol
el 1650 N 30 E 60 SE
Main Fract

BBG 664 el 1660
Straticulate dol
qtz on dol fracs
N 20 W 20 NE

BBG 6646
N 85 W 50 NE Frac
Photo el 1665

BBG-631 el 1680 b base
of Falls med, thin
bedded dol N 20 W 2 60 W

BBG-632 el 1720 b near
base of 3rd cascade
N 40 W 40 NE thk bded
gray/lime dolosn
Straticulate burrowed dolosn
on road above = 06

BBG 633 Top of Cascade #3
el 1770 gray fract
dolomite N80E 20NW
BBG 632 b N5W Fault
dips 80 SW, hinge
in stream (phot.)

IRONTO FIED WORK
21 Days Detail Map
7 Days Digital Comp

Bburg Mapping 18 x 1/2
12
Knox Group 15 days
Strat and
structure

VDF
Http://www.dof.Virginia.
gov/info/index/presentations
htm

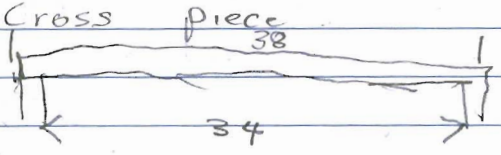
Matt Heller
put in Field Check
on Blacks -
Aaron → Get up
with Aaron

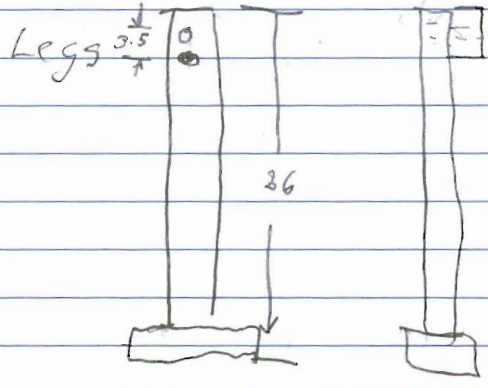
Grant Budget Both
Project - 20 K
1/4 IRO 7.65%
Field Check
18% indirects $ 1930 Ficu
on Salary post 1404 trav

For 31.94 hr -
626 hours -
check hourly rate

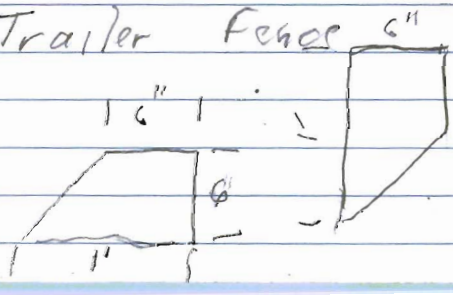
More towards Travel

Loader Props





Trailer Fenes



August 26, 20.
27, 2001 W80°27.

BBG 351 Saprolite of
light grn and dusky
red Elbrook fm argi
in cut for new sewe
N 76 W 25 SW aparent
bedding plane cleavage
with N80E 12NE sinstral ki
some breccia prese
in cut. no td visi
N 57E Bearing to end of NW
N 54W Bearing to Seismic Va
N 78W Bearing to small barn
on dairy center
S40E Bearing to SE runn
(Parking Strip
BBG 352 Outcrop or M
560E Brg to end R
N40 W Brg to Barn
Sedimentation Pond
(Full) oc on N si
of sulfate or [illegible] gray argillite and d
sltsm, high shrink
swell clay slt soc
thinly bedded, br
weathered N 74E 32
N 37 12.360 W 80 24.98

August 26 2011
N14E 32 NW laminated
grag dol near end of
runway
August 27 2011
BBG Loc BBG-533 at N 37°12.453
SE of Dairy Barn on Map W80°25.237
phyllite (dusky red and
grn fragments in orange
red clayey saprolite
[Ꞓel
August 30 2011
on crc at N 37 12 210
BBG 611 W 80 24 787
hiking trail crossing branch
drain hill covered w/
rite silty soil,
angular residual cobbles
of fg ss - brn weath
BBG 612 pink slaty arg sap
N80E 30 SE on both
80E 10 SE sides of
37°12.165' W 80°24.133'
BG 613 N 56 W 16 NE
gently undulose slaty argil

at N 37° 12.063' W 80° 24.7
N 37 12.053 W 80 24
BBG 614 gray fine-ing cht, SS
w/ some feld sand mica, c
chips in cut for interch
N 30E 24 SE color bandings
red ss layer in gray
N 37° 11.703' W 80° 24.172'
BG-621 thk bedded burrowed
gray doloslone ledge in
road bank N 37° 11.963
SSD N 80 W 20 NE W 80 24.117
BBG 622 thk bedded dol
w/ green shale interbed
N 60W 30SE
N 37 12.067 W 80° 24.0
Elbrook Clown
BBG 623 thk bedded dol
w/ breccia zones (Lower
N 37° 12.185 W 80° 23.979'
BBG 381 green phyllite and
argillite sap rock in cut
N 37 12 568 W 80 24 027
thn bedded dol N 84
good stop for " Rome

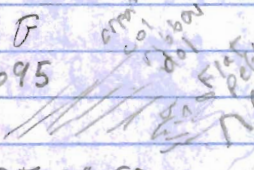
8/11 Old Virginian RW
BBG 691 mile 275 on DEW
N 30E 28 SE Massive beds
gray rexline dol cut 30'
high, Strong joint set
N60E 70 NW
BBG 692 N 14E 40 SE
Thk bedded gray cherty
dol w/ thin laminated
beds succeeded by bioclastic
(gastropod, trilobite) grain
stones, burrowed zones
BBG 693 N 10E 60 SE 10-20'
interval of ribbony bedded
gray micritic ls w algal
bioherms,
BBG 694
Ribbon rock (blue gry ls
with thin irregular brn
to tan dol beds in rare
preserved blocks, mostly
fine gry dol, crinkly silica
partings N20E 70SE
E 10
C 931 Fracture zone on

BBG 931 9/8/11

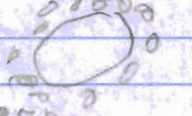
point = coopers Unit 9

N5E 70SE distinct fracture zone ~ || bedding some thin shaly interval; slaty

BBG 695



Good CCO



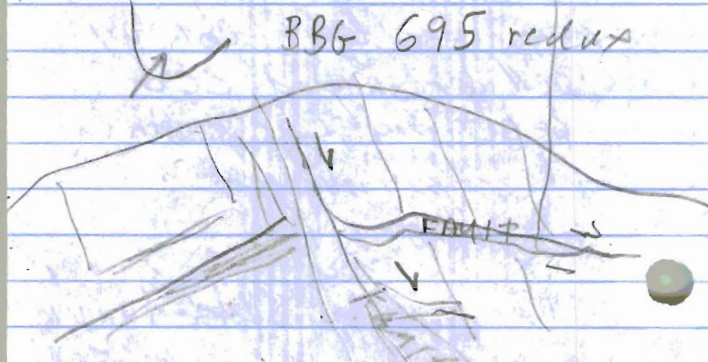
N20E 24 SE

BED

(copper ridge dol w/ well preserved CCO peritidal cycle in Cut

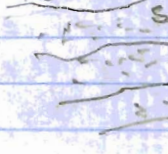
Many wedge block failures same as smart road Mostly laminated dolomite in massive beds at tops of cycles prominant white weathered siliciFied beds (cgl and grainstone portion of cycles)

show brown staining
cross bedded sections
BBG 681 N30E 46SE
Thick peritidal cycles
w 1' thick flat cobble
and pebble cgl zones
add 10 M ribbon layers
overlain by breccia
Caramdrite ?? Zone)



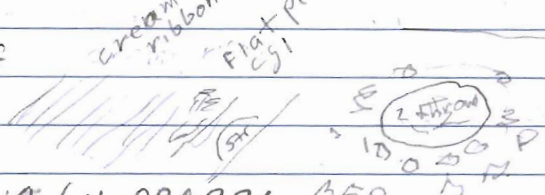
Big Detached Blocks

BBG 694 Redux

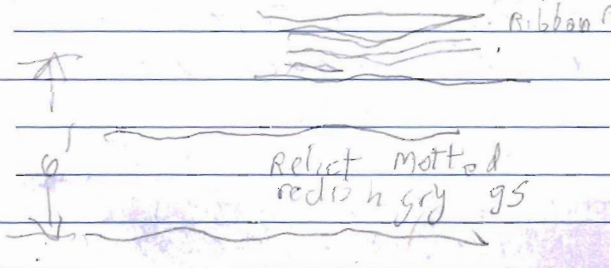


block of red brown med-cg Friable ss

NEW 681
9-7-11 Newport
Quad at gate Jeff for
NEW 1 N 37 18.118'
Cloyd W 80 24.143
Turnaround PT 6' cgl
ledge N 74 E 535E NEW 681
el 2820 b N 37° 18.367'
Photos W 80° 23.110

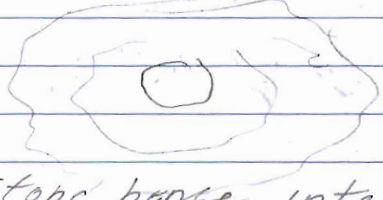


9/14/11 BBG 321 BED
beginning of Windy Ridge
lane N 37° 14.635
W 80 24.028'
laminated relish gray dol
on top
N 40 W 20 NE



9/15/11

BBG 322 old quarry site
now house site
N 37° 14 715 W 80 24,030'
N40 E 10 SE silicic
ribbon banded gray to
buff weath dol. /s
BBG 323 oc on hareling
cream - buff weath gray
sandy dol N 50 E 20 SE
N 37 14 560 W 80 23 713
BBG 324 oc in roadside
at Bug Shop N37 14 600
NS 10E W 80° 23.605
ribbony dol w/shyl
layers, stromatolites



stone hinge interval?
BBG 325 N 20E 10SE
ribbony dol w/qtz
sand floating in
dol sh BBG 326 gray dol
N 37 14 .780 W 80 23 535
N37 14 .921 80 23 390

With Phillip Prince!

9/13/11 BBG 982

W 40 E 50 SE cream colored laminated sandy dolomite at stream intersection

N 37 09 957

W 80 23 297

BBG 983 N 18 E 60 SE thin bedded - laminated cream colored silicic dol.

N 37 09 .946

W 80 23 .068

BBG 984

N 40 E 65 SE med thick bedded sandy gray dol w/ thin brown to orange weathering sandy beds Oolite w/ silicified mtg weathered in relief at base of GI falls

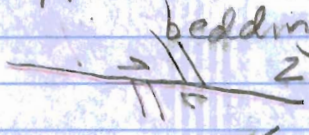
N 37 09 962 N80° 23. 102

BBG 985 N 24 E 60 SE coarse gray xline dol at N 37 09 .992 W 80 23 .093

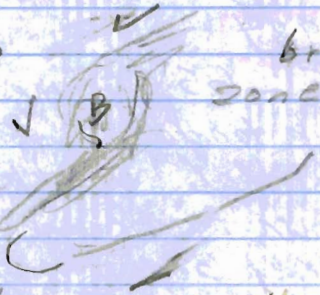
1 Sept 12, 2011

BBG682 Breccia and massive dolomite dipping SE

BBG683A Photo of Breccia lower Elbrook W strike (70°) SE dip, shallow epikarst fractures appear to offset bedding in extension zone



BBG683B



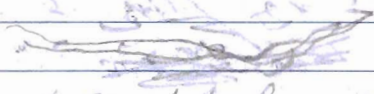
breccia zone w/ mass. dol boudin's in yellow sulfur zone

BBG683C Platy dol cut by NW dipping disc.

BBG683D Fold zone in yellow sulfur fault beds dip NW, refolds

9-15-11

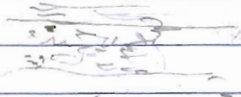
BBG N 25E 10SE Thin - medium bedded light to dk gray silic dol with chert nodules along bedding



oolitic & sand beds cutting down or chert beds draping chandrized tidal flat N 25E 10SE

BBG 335 Typ Beck Burrowed Is facies (dol) Mass laminated beds. N4W 12M

N 37° 14.868 W 80° 23.217'



BG 336 Brown Lam. Dol Bln gray alg'l is

Photo

N37 14 775 W 80 23192

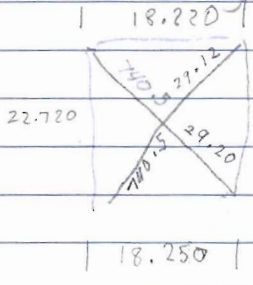
9/16/11 With Trish at Walnut Springs Farm

BBG 151 Terrace gravel, gray sandy top soil at Trish House Site

BBG 152 bldr of brecciated gry

BBG 393 w p
N 37 12 527
W 80 22 983
karst dep 10' deep
100' dia small cave
in chty dol N20W 10NE
ledge on rim

Blacksburg Quad 9/23/11

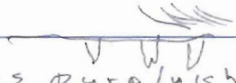


— BBG 624
on entrance rd
AEP ELLETT ST
— gray lam dol, ledge
ss flt N 3E 12 SE

· Blacksburg 9/26/11
BBG 384 gray to pale
brn xline dolosn with
silcified lam. pos
Flat pbbs N 37 12.567'
W 023°.608'
N 16W 30 NE
erodcl surface
BBG 623 lam dol, N522E
Tp cco cycle! ss Flt
in reg.

Fiddlers Green Subdivision 6.130/10
6/30/10 Lot 77 705

BBG 341 block of ribbon
inded dol w/ thin ss and
sh partings sh is dk gry
w/ brown burrow mottles
penetrating into gray
dol grainstone bed below
outcrop at back of lot BBG 34
gray dol w/ thin brn weath
ss beds, cross beds scour
channels and burrows



ss up to 2"
is purplish dol gs
dip 5° Eward WP 601 N37 13 6
W 80 24.2
N35 W 5 NE el 2200
Photo of
cephalopod mould

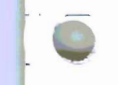
3BG 342 N35W5 WP 602 N37 B855 W80 24 282 el 2175
Corner Prospect and Artis
court another ledge of
gray thk bedded sandy dol
with thin sandy beds (weath
buff - tan, burrowed
into fine grainstone below
at least one rip up cyl
bed with 1" dia flat dol pe

BBG 34.3 WP 603 N37°13.897, W80°24.242
el 2168
3) Corner of Clay and Jeff sed pond exposes 4' ledge w gentle NE dip. Pebble agl w pebbles ~ rounded and flat up to 1" ø white popcorn chert replaces anhydrite darker gray limestone beds up to 1"

bs - gray dol ls burrowed zone above dolstone micrite w/ sandy burrows and sand layers
ODG3 N12W 15NE

BBG 34.4 in Sed pond Corner Jefferson and Clay nearly flat (2-5°) NE dipping gray (beige to tan weathering straticulate dolomite w/ complex disrupted algal mat structures — Thrombolites and Stromatites over 1 ft. reddish mty. pebble bed (3" thick)

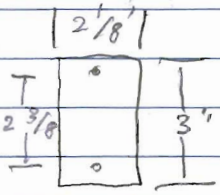
ladder like along strike



prism cracks or collapse zones above evaporite horizon
WP 104 N 37 13 935
W 80 24 203
dipping N 80 E 3° - 6°
gps (strike N 10 W)
WP 605 ledge of tan - purplish weathering dolomite w/ gray burrow sh or mudstone layers and dark gray grainstone beds (LS) GPS N 37° 13.750'
el 2291, W 80° 24.1
strike N 10 W dip 3 - 0 NE, by GPS lot 10A
WP 606 BBG 352 ditch (eroded) above Pond at WP N 37° 13.75
el 2276 W 80° 24.110
saprolite and chert layers dip steeply N, at 80°
WP 607 sink (Karst dep) at bw point along surveyed trail N 37 13 790 W 80 24 064

BBG 3 54 cut lease
WP 108 N 37 13 905
el 2162 W 80 24 106
ledge along ok below
dips 5 E moderate hinge
trends W
thin lam dol ledges
d.p gently east above
at WP N 37 13 876
W 80 23 81
Fiddlers Green Subdivision
7/1/10
photos 1-4 are arenaceous
erratic of Ecol dolomitic
ss w/ most dol leached
Photos 4-7 are of
dolomite w/ peritidal
features in Sed pond
BBG 344 Photos of burrowed
supr to peritidal
beds w/ lg anhydrite to
crystal masses replaced
by white gtz
WP 608 N 37° 13 716
W 80 24 272

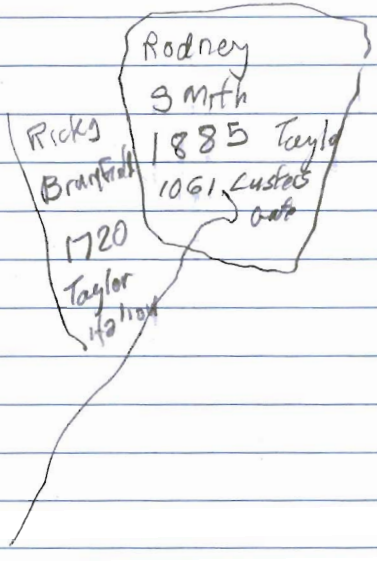
Trailer Tail light side lens



July 19, 2011 Rain w/ Phillip
BBG-371 airport Td
N 310 W dip NE 55°
orange N50°W mottled saprolit
beneath 6" (excavated)
wite to gray sandy terra
deposits w/ red brn my
quartzite pebbles & arg
qtz mylonite clasts
white silty mtx Phot
N

Mtn Lake

TAYLOR MTN ROAD



10/25/11 Tuesday Sunny
BBG 629 Massive bedded
gray dol w/ widely spaced
lamanation, strong cross
joints N 37° 12.358 W 80° 23.7
N40W 50SW ; N70E vert

BBG 6210 sandy gray to
tan dol in sidewalk
bank b N 48W 20 NE
(N60W 70 SW)
N37° 12.227 W80° 23.810
BBG 6211 dk gray algal
ls (Mg) interbedded w/ dol
N 40W 20 NE N37° 12.137 W 80° 23.78
el 2060 +
BBG-6212
N 50 W 50 NE ledge of
light - dk gry, thk
bedded closely jointed
dol N37° 12.048 W80° 23.717
BBG-6213 - cobbles of qtz
ss in white sandy mtx
el 2080
N37° 12.055' W 80° 23.692

BBG-6214 N30W 40 NE
thk bedded to laminated
crystalline lt gry weath
dolomite in road cut (Phto)
N 37° 12.025 W 80° 23.660
BBG-6215 apparent bedding dips reversd
in thick bedded gray dol N 10W 40SW
cleavage? Massive beds below
BBG 6216 distinct 1" lam
(Photo) N 50W 30 NE
N 37° 12.000 W 80 23.562
BBG-6217 N14E 30 SE Massive
light cream colored sandy dol
N 37° 11.960' W 80° 23.423'
BBG-6218 quarry highwall
in lt gray-cream colored (wea)
dol N 37 11.943 W 80° 23.343
N 50W 40 NE
BBG-6219 el 1930 6 N60E 30 SE
Photos of typ Eco ribbon
banded, dolomitized 1s seq.
N 37° 11.890' W 80° 23.300'
BBG-6311 good ribbon rx at el 1910 6
near apex of curve
N 37° 11.890', 80 23.267 thin white
sh/arg siltsh layer above which
are large blocks detached (Vravi

NOTES Dec 2 '11 Oliver Farm

BBG 337 edge of field 17006	N 26 W 18 NE thk bedded gray dol ledge above creek. Creek w/ valley fill above Subtle Karst depression near fenceline
BBG 338	Blue - dove gray micrite on ledge above ck al debris N 20 W 18 NE
BBG 339	Blue gray ls base, gray dol below in stream bottom N 20 W 18 NE el 17006
BBG 3310	N 12 W 12 NE broken (Closely cstrike jointed tk dol bed crossing el 1710-20 above road crossing
BBG 3311	Gentle beds gray dol NS 10-20 E 75' wide al belt on N side of stream
3312	300' cascade in thk butcher block Dol N 8 W 20 NE 30' al on SE side 18006
BBG 3313 gentle 18206	Broke Fall cut hond Cold hinge N 26 E 20 NW (NW 6 m N 60 W 14 NE hinge N 12 W 10 NW
BBG 3314	Scarp like detachment ledge, travertine covered in stream N 56 W 45 NE butcher block Obc

Day Runner

NOTES

BBG 3315 el 1850-80
Scarp like headwall
on SW side of valley.

Old spring? Tufa and
blocks in Creek Cascad on
beds N 10 W 20 NE

BBG 3316 photos of epikarst
collapse features
on creek side el
1400 b photo of tufa
beds N 40 E 10 SE

BBG 327 Massive frac dol w
Siliceous parting
N 50 W 20 NE
beds joint passages
N 50 W 75 NE

photo
in
cave

Upper Stonehinge?

BBG - 3317 cherty gry
Frac dol n 20 W 8 NE
el 2100 b Obe

BBG 3318 Massive gray
dol n 20 W 14 NE
just NE of 60 dia
20 deep doline (photo)

NOTES

1386 3319 N 14E 10 SE
41 ledge 6 gray
ls w/ sil partings
dol cl 180m

NOTES Dec 21 '11

BBG 3813 N40W 18 NE redish crystalline dol w/grn shale parting on ledge

22607 SS Float on soil slope Obe lower? similar to Quarry

GPS N 37° 13.267 W 80° 23.37

BBG 3814 N14 W 12 NE el 2130b N37° 13.250 W 80° 23.270 massive gray + orange weathered dolomite ledge exposed in dirt way

BBG 3914 Greenish parting in reddish gray massive dol at el 2130b Obe N 37° 13.250 W 80° 23.212

BBG 3915 active Karst Field ~4 sinks one active epikarst drainage visible el 2100b

Sink A

Sink B N37 13 330 W 80 23 007

Sink C N 37 13 342 W 80 23.072

Sink D N 37 13 347 W 80 23 062

N 6W 12 NE ledge to NE of 50' diam lunate sink with blocks filling cut.

BBG 3916 Sink A 30' dia 3' deep ledges - massive dol

el 2100b N18W 10 NE N 37° 13.337

[illegible] el 3 W 80 23.00

BBG 3610 E 20 80 N 37° 13.250 sink W 80° 22.903

Dol Ledges N4W 10 NE

Day Runner

NOTES

BBG-3621 N 37 13 353 W80 22.930
Thkt to Mass bedded dol (edges N4W 10NE

BBG-3622 N 37° 13.343 W 22.878
Fragment of axe head found just below powerline

just below about 15' scraper

BBG3918 bench or old road in overgrown clearing at el 1860 6 N 37° 13.290 W 80° 22.663 el 1780+ chert walls

BBG 3919 - over grown grassy field nearly flat, dol edges along edge of knoll + valley N 8 W 10NE N 37° 13.320 W 80 22.608

BBG 3920 N4W 8 NE dol edges next to old log house N37 13 333 W 80 22.563 1740 T 60' bar change

BBG 3921 large house site Lots of Yucca, old stone walls in field LS chimney N37 13.287 W80 22.578

Item # 033-3

NOTES 12/12/ Yellow Sulfur Sp

BBG683 gray to dk gry xline dolomite w/white veins blocky jointing N 70 E 55 S N 50 W 80 NE ocheous clay / tufa sap in stream

BBG 684 spring house next to office (hexagon blg

BBG 685 N 15 E 40 SE blk thin bedded dol ledge on gray do

BBG 686 60' dia depression next to upper cabin prob old spring! — big trees black ls flt

BBG 687 dol or ls quarry behind foundation of addional cabins tan weath lam dol. N 10E 40 SE

BBG 688 N 15 W 40 NE - thlk bedded dolomite beds along old road, rock wall just south of Bridge ledges in stream bed N 10 W 40 NE beneath old bridge

BBG 6810 Massive bedded dol ledges below old cabin in stream bank N 15 W 52 NE

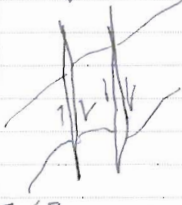
BBG 6811 N 10 W 50 NE butcher block black dol. crossing creek at barbeque area, some blue alga ls ? block

BBG 6812 N 10 W 40 NE more med to thin bedded elbrook

Day Runner

NOTES

BBG 6812 prominant Factures



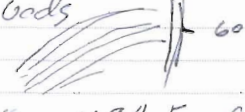
N 60 W 80 NE
in black shly
to slaty dol

BBG 6813 green phyllitic layer
in steam below big
ruin on stone piers
beneath old lake, ba

BBG 6814 concrete spring
house above old lake

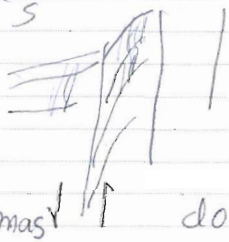
BBG 651 alternating light and
dark 1s t sh (buff)
weat. in stream could
be slice of Olh (Oe)

arched beds



N 18 W
60 NE

Cross fault N 84 E 60 SE
ductile deformation
zone cleavage N 70 E 74 NW



BBG 652 mas dol beds in
old roadside quarry 4'
ledge N 70 W 38 NE

NOTES

BBG 3922 barn site? large stone piless junk N 37° 13.262 W 80° 22.590
Sink hole above ledge chty dol ledge NS 16 E

arch plunges N 80 E 16 NE

BBG 3923 big ledge below pavement in stream N 4 E 15 SE N 37° 13.208' butcher block dol W 80° 22.615 nice woods, young timber running cedar clean stream, some tufa fray

BBG 3924 el 1770 b breach sink hole ledge N 4 W 12 NE cascades below N 37 13 197 W 80 22.537

Dec 27 2001 BBG-328 N 24 W 10 NE layered ribbony dol w/ lam zones and silica replacement of evaporite 0s or 0c

NOTES 1/05/12

IRO 4312 el 1890b - On Knob
at M East house
grn sh N48E 20SE on
circle drive
N 37 12.288 W 86° 20.657

IRO 4313 N 50E 16 SE rd mdnsn
begins 20' below house
station at el 1860b

IRO 4314 N40E 20 at el 1850b
light gray thk beddedss
interbedded w/grn -
gray shale el 1846 b

N 37 12.307 W 80° 20' 775

IRO 4315 el 1835 N 40E 26 SE
10' white ss ledge
bits on green shale
at top of Edinburg
tan sh and ss above ledge
N 37 12.310 W 80 20 803

IRO 4217 green olive sh w/
pencil cleavage el 1830
N40E 24 SE
N 37 12 307 W 80 20.818

IRO 4218 N40E 20SE Section
of gray arg ls
on road way el 1520
N 37 12.347
W 80 21.027 liberty hall ls

Item # 032-3

NOTES Jan 12/12

BBG 261 gray dol sap
N14E 42 SE
N 37 13 925 W 80 25 417
massive elbrook open
joints (epikarst N 20W
80 NE
BBG 373 dol ledge on RR
cut, lt gry - tan
massive (2' bed)
w/ joints
bed N20W 36 NE
joint N 70W 75 SW N40E 72N
N 37° 13 252 W 24 720
BBG 615 red and green arg
slaty leavage
N37 12 168 W 80 24 442
NS 20 W ? clear
BBG 617 red & green
sap - qtzite cobbles
on hill top
N 37° 12 147 W 80 24 560

Deerwoft On 1630
OL 1550

Day Runner

NOTES

Feb 24 1pm 2012

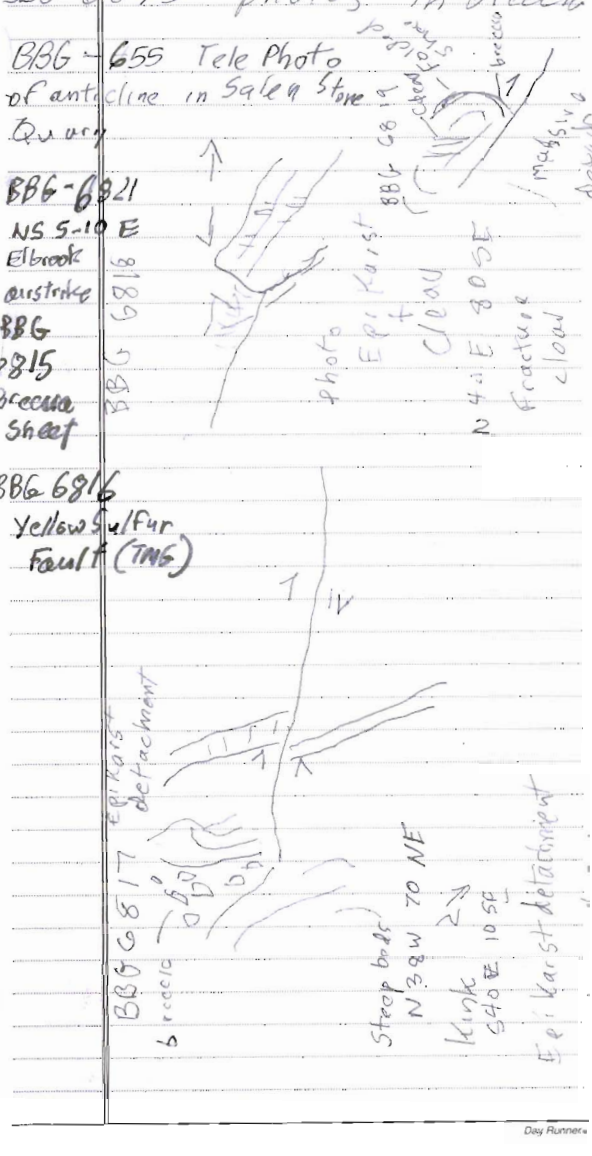
BBG-6815 photos in breccia

BBG-655 Tele Photo of anticline in Salem Stone Quarry

BBG-6821
NS 5-10 E
Elbrook
outstroke

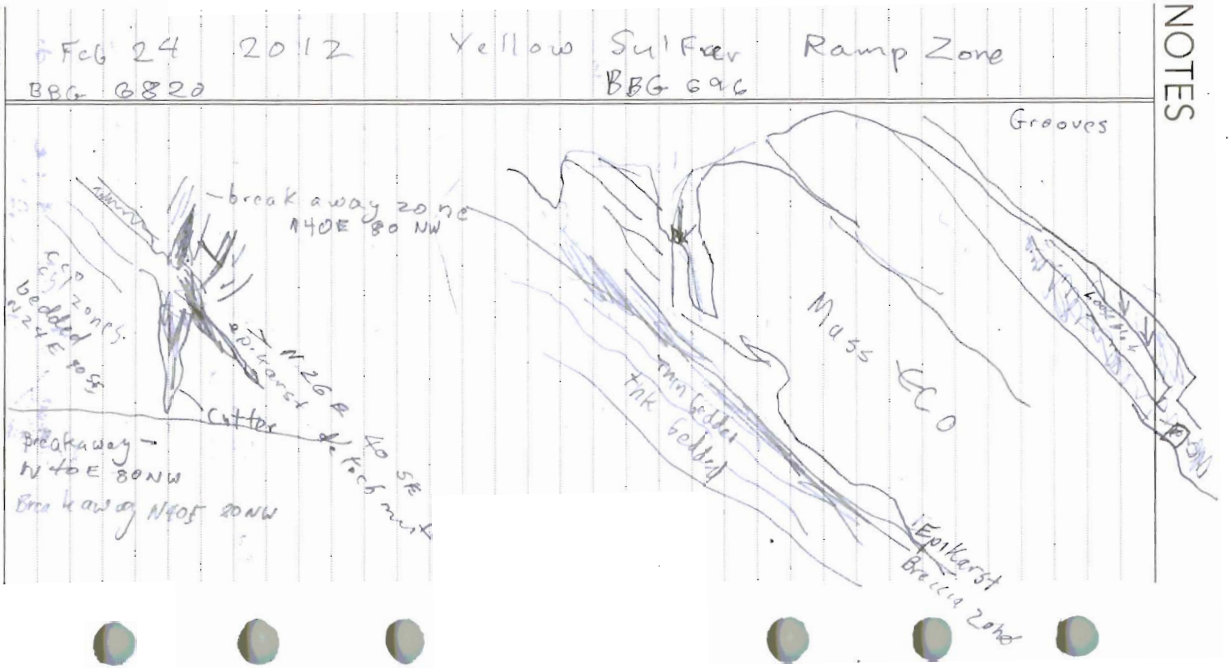
BBG 6815
Breccia
Sheet

BBG 6816
Yellow Sulfur
Fault (TNS)



Day Runner

NOTES



Feb 24 2012 Yellow Sulfur Ramp Zone
BBG 6820
BBG 696
Grooves
break away zone
N40E 80 NW
CCO
cgl zones
bedded
N24E 80SE
N26E 40 SE
epikarst
Cutter
Breakaway
N40E 80NW
Breakaway N40E 80NW
Mass CCO
thin bedded
thk bedded
Epikarst
Breccia Zone

NOTES Blacksburg 2-27-12

BBG-3918 lt gry lam - Sandy
dol, fg rex me,
cross bedded fragmental
rip up bed (ledge in
vacant lot N 20 E 18S
N 37° 12.627 W 80 23.16
pink weath w/ popcorn
chert. Large sink on SE
side of roadway

BBG-3919 cave entrance
in massive cherty gray
dol N 37. 12.502
W 80 23 (OT)

BBG.3920 N20W 26 SE
Cherty gry fine dol
forms knob mass cht
ledge N 20W 26 NE
N 37 12.543
W 80 22.857

BBG-6312 cl 2306 gray
thk - massive bedded
dolomite N S 20 E
N 37 12.433 W 80 22 807
massot - Beekmantown
"perl gray" to pinkish

BBG-6313 cl 1800 b
dol ledge in ck N10E
20 SE along logging road

BBG-6314 cl 1930b N50E 20SE
massive gray dol
ledge on scarp above slide
N 37° 12.358 W 80° 23710

Day Runner

NOTES

BBG- 6315 N 36 E 20 SE thk bdcd
N37° 12.407' gray x/line dolomite
W80° 23.872' regular bedded thn
cleavage siliceous layers
N73E photo of cleavage (
.75SE extension)

BBG-6316 cl 2060 b emergent
spring from beneath ledge
of thk bedded fine gray
dol with round bfs
to brn weathering chert
Os (Och) N 20 E 20 SE
water line in spring
at N 37 12.408 W 80 23.030

BBG-6317 cl 2080 Os
N 30 W 20 NE
thk bedded gr dol
w/ sand laminated
zones black chert
extensional joints
NS 70 W dil →]
N 37. 12.432 W 80 23.023'

BBG-6318 N 68 W 20 NE
photos of ledges
and tufa below old
Blacksburg Water supply
Photo of Spring at
N 37° 11' 880"
W 80 23' 150"

BBG 6319 thk bedded - med
bedded dk gray

NOTES Os (Och)

Fine grained limestone in road cut E-W 20 N
N 37 11.873 W 80 23.232
Ribbon banded dol above
Photos of Och - Os section along Cedar Run Road

2-28-2012
Synformal hinge N 74 E 4 NE

BBG911 N75E 65 NW
thk bedded grg dol w/ shly interbeds, blocks of orange brecciated dol near base of cut

BBG912 Purple grn + dusky red slaty chips in soil steep bank, al in stream no Oc ~ lower Elbrock
Not Rome

BBG641 below Holiday Inn site dk gray slaty arg. and anthracite float on bank N 50 E 35 SE cut off on ramp (Photo)
coal horse Good Stop

2' qtz ss overlies coal then gray sltsn gray slate (under clay below

NOTES Feb 29 2012 cloudy cool breeze

BBG 6221 N 60 W 24 NE
thk bedded gray dolomite
(Eco ?)

BBG 6222 N 80 W 18 NE gray
massive dol ledge

BBG 642 & 643 slaty grn
and red argillite chips
along sewer line below
hospital Mm
N 37 11.308 W 80 24.863

BBG 644 green and brn weath
siliceous argillite
Ledge in drive way
along sewer line
N 60 E 30 SE Mp or
Mm ?

BBG - 645 yellow brn and
[illegible] weathed siliceous
argillite + meta siltsn
N 50 E 40 SE

March 3 N 37° 10.797 W 24 943

BBG - 561 site of Price
well photo ss chps
N 37 11.248 el 24506
W 80 27 623

BBG 861 N 80 E 80 NW
burrowed bed ~4'
Ol spl. coarse
black wacke sn/grain
stone with shly ptg

Item # 033-3

NOTES 8/27/12 UT Research/IP

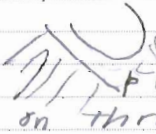
BBG 656 Tr along Sewer line to Jenelle Road. 1s blocks from smart road cut fill area up to 50' thi Photo — no native karst preserved all covered with fill deposi Some SS Float along road and sewer line confirms Eco on Pub. Map

BBG 657 on N side of new tract in IP across Parking lot fom Simon Ocs or float of Gray Sandstone in conococheague Sap

BBG 658 across from research park (Smart Road Control is a turn around gruden on a white SS cobble terrace deposit (Photo

BBG 9611 revisited on 4/11/12 photo of synf. hinge at N 37° 08.808 W 80 22.6 hinge plunges N 80E 50 axial surface N 10 W 40 SW

BBG 9623 N 70 W 50 NE fault



photos of polymictic brecc PP and synform on thrust that truncat early folds

BBG 9624 disharmonic folds plunge 55E

hinge N 52 W [N 37° 08.550 W 80 22.0

Day Runner

NOTES BBG 9 6 24 (4/11/12)

hinge plunges S 52 E @ 5°
a p N 40 W 25 NE
BBG 9625 photo of salt
permeating saprolite
of lower Elbrook
detachment zone
beneat N bound lane US 460
beds N70E 20 NW

BBG 9626 EW 80 N on SW side
breccia on NW side
of ROW at N 37 08.502
W 8023.303
4/17/12 N 37 09978 W 8022-806
BBG-937 N 40 60 SE thin
bedded shly arg
BBG-938 N 37 09.882 W 8022.765
travertine bank in stm
flood plain ~ 100 yds across
BBG-939 N 20 E 50 SE
masive bedded black micrite
and coarse xline dol beds above
slaty argillite above creek
at N 37 09.870 W 8022.727
Edinburg below Cleav N35E 40 SE
BBG-9310 brecciated dol
and bndol, and chert
on pipeline above
at N 37 04.882
W 80 22.713
el 1700T N40E 25 SE
Cleavage in slaty argillite

BBG-9311 el 1710 dk brn
weath thk. bdded dol ledges

Item # 033-3

NOTES

BBG - 9311 E-W 60 N at N 37° 09.732
el 17106 W 80° 22.69
Eel ?

BBG 9312 N 76 W 40 NE
Creme colored sandy
Turkey hen dolomite (Eco)
on nose - gradational
contact below some
ribbon rock ts/dol
ledges No clear cut
fault zone on slope
pretty continous OC
on upper slope may
be hanging wall
N 37 09.658 W 80 22.658
N 60 W 30 NE on
slope to SW

BBG 9313 in ravine
N 85 W 20 NE slaty tan
dol w/ complex cleavage
above tcl el 1710
N 37 09.627 W 80 22.717 p.

BBG 9314 thin bedded
tan-gray arg dol
N 50 E 62 NW in stream be
at el 16506 N 37° 09.615
Elbrook W 80° 22.810

BBG - 9315 Elbrook ls + do
N 40 W 20 SW Scarp
in drainage at el 18006
N 37° 09.600 W 80 22 933

BBG - 9316 N20W 70SW paper thin gr
Hogback chl phyll. slaty arg
rid 2 N 37 09 655 W 80 22.947 Ants

Day Runner

NOTES

Chris Austin 540 292 5311

Cabalas Arton
552-7118
Rodney Smith
(Lisa) 641-3617

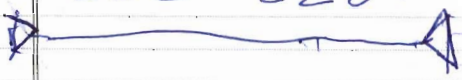
Norman Woods
(Matt Osborne
250-6088

Dear Carter

1157 East, Michael
Taylor Kelle Ann
Hollow

Contact 558-8130
Robert Bradbury

552-3281



BBG 9317 ridge top changes from grn argillite to poly mictic tectonic breccia
e/ 19206 (1860 T)
N 37° 09 630
W 80° 23 028
scarps below

BBG 9318 N74W 18NE brecciated dol on bench at N 37 09 700 W 80 23.145

Item # 033-3

4/18/12 Blacksburg VA 1920 b +40 1960

BBG 771 Highland View at circle brecciated gray dol in yard N10W 20NE planar aspect to breccia ledge (photos) shly chips transposed on internal clean

BBG 772 Black shale bench at el 1880 b +40 1920
BBG 773 dol ledges in road bed by picknic shelter el 1840 b +40 N 30E 40NW Fold hinge S60W 40 SW Tan platy dol ap ap N50 Evert big Spring house pond on geol map no longer there Photo Fault Contact Iferrea
BG-774 elbrook thin bedded-thk bedded gray-bl dol sheared and breciated dol N 20E Photo of fault contact w/ black shale sap light colored sap in cut must have been interp as (05) on SH 604 Fault Contact int.
BG-781 new lot on Indigo Road exposed lower Elbrook green phyllite + breccia dol N74W 60 NE layering

4/18/12 Blacksburg

This is typical lower Elbrook

BBG-782 dol at intersection

N70E 40 SE thick, gray lam

BBG-791 mass brec dol

N 35 E 40 SE

BBG 782A on 11 black slate

on ditch tan dol

breccia ledge just up

hill and across road

N38W 20SW slaty dew

Fault not exposed

need dashed line

For approx loc

BBG-783 site of Old Lithia Spring

N 70 E 20 → N 30 E 50 SE

BBG-871 thin bedded ls / calc

argillite, dk gray (Omb)

N 50 E 60 SE S 70 W 20 SW Shinge

BBG 872 N 80 E 30 SE

mass dol ledges on power

line

BBG 751 borrow in sh Fault not exposed

BBG-752 on elbrook phyllite NS 20E

show as pattern - no contact

BBG 731 N 24 W 24 NE plunge in 14 N

dk gray slaty do in new cut

behind water plant = "JB "Rome"

Google site for geometry

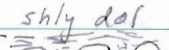
Tightly folded

= punkin valley / Conasauga

BBG 732 brecciated thinly bedded gry dol

N 80 W 10 NE shale chips to SE

No contact observed

4/19/12 BBG Field C
BBG-862 Michel Co. Warehous
N37°06.503 W80 25.217
Thick bedded gray laminate
dolomite White gash ve
tan shly dol lum above

sandy dol w/ripp
= upper Elbrook in place rsu
(photo) N40E 40 NW bedding
BG 863 N 5E 10 NW highly
bioeciated gray dol ls
N 37 08 442 W 8025.623
4/20/12 BBG-941 SS Flt Mass
dol ledge N60W 40 NE
fine siliceous lamination below
= cycle top grades down
to bluish gray ribbon banded ls w
algal bioherms
BG 942 N70W 30 NE light
tan dol w ribbon
banded Fabric preserved
siliceous partings and sandy
zones
BG-891 tan-brn dol ls
on ridge air strike N80E
dip est 30-40 NW Eco
BG 892 lam dol ls exposed
n bank on Beaver St N74W 30 N
photos of layering ted (upper
N 37° 07°.760 W 80° 25.840
BBG-882 N70E 40 NW lt gry

- med
lite w/ thin bedded
layers = Basal CCO
notes OF SS layers
N 37 07 777 W 80 25 900

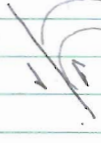
BBG-851 gray dol ledge
below Clubhouse (lam ls / dol
middle - upper elbrook ribbon rx
N10E 60SE OT (alga) stroms
N 37 08 480 W 80 26.240

BBG-841 - shaley chips in soil
bank along driveway
N 37 08 467 W 80 26 815

BBG-871 new cut in corn
N60E 80SE thin bedded
ochreous weathering platy
dolomite ledge at
N 37 08 292 W 80 26 733
photo of ledge and
rolling elbrook terrain

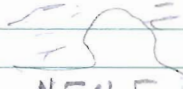
BBG 842 thk bedded gray dol ledge
in driveway cut N 37 08.507
N20E 40SE col W80 26.865

BBG 852 photos of Elbrook
dol and breccia
Lots of green breccia in
this cut cut begins
at CK
N 37 08.813
W 80° 26 673



4/20/12

BBG-843 N S 40 E light gray weath cherty dol/ls in cut below house at N 37 08 875 W 80 26 82
photo of Strom
oogle Earth N 37° 8.871 W 80° 26.842



BBG-844 N54 E 24 SE argillaceous ls in Omb exposed next to new bridge at N 37° 08.897 W 80 26.920

BBG-811 new chl dc sak Seneca springs N 37 09 585 W 80 26 84
dol, breccia sap rock exposed in embankment no measurable struc

4/21/12 ESN - PILOT Quad Field Method
N 37 09 245 W 80 14 435 ESN-71
Stop in Rome
Pilot PLT 1 N 80 E 70 SE AP PLT-3
Quat hinge E W 30 E PLT 38
N 37 05.752 W 80° 15.102 .115 10 6
Gohaush and Bloodroot PLT 38
Stop in Unicoi N 40 E 40 SE
N 37 5.239 W 80 15.907 PLT-6
N 46 W 20 SW Otaite ledge / Micaphyllite
N 37 05 072 W 80° 15 875 PLT-62
37° 04.978 W 80° 15.988 Unicoi
~~N 40~~ N Leucogranulite gn 25 SE

N 37° 04 .913
W 80° 15 .960 PLT 6 24
Falls oc thin banded
granitic (qtz - Feldspar)
gness N 50 E 52 SE
photo of joint system
controling stream
N 26 W 74 SW
N 20 E 28 SE uncoi ledge

N37° 04 987 W 80 15.942
April 24
BBG 181 N 37 12.977 W 80 28.62
tan and grn phyllite soil
E-W 70 S dol in yd

BBG 171 redux N 37 13.315
phyllite in W 80 29.693
Ꞓel N 40 E 30 SE
BBG 211 (SS area lit gry ls/dol
BBG 581 oc in new basement
cut cross bedded SS sap
N 58 W 15 SW
N 37 10.632 W 26.268
BBG 582 red sh on Bank
N 37 10.488 W 80 26 285
BBG 821 N 37 10 060 W 80 26 563
N 40 E 45 SE Ꞓel brec dol
BBG 811 Ꞓel ledge below Trailer
Park N 37 09 983 W 80 27 250
N 80 W 18 SW

1

April 27 2012 BBG 982
redux - coarse xline gray
dolomite interbedded w/
algal chert (strom + throm
on Crab Creek spur N-S RR
BBG - 987 cherty dol ledge (
below house site
BBG - 988 dol ledge crosses
road dipping steeply SE
typical butcher block dol text
coar cellular lite gray chert
poss. karst area between
7 & 8!
RNR 131 techn Sta N 37.124167
upper terrace level W 80.378611
No bedrock deep orange clay loam
w qtz (cht gravels)

BBG 913 shly gry dol +
freccia OCs N side of
cut dips 20 SE
strike
29/12 BBG-831 Target/Home Depot
2 OCin drainage on SW side
of Target, thk bedded gray
dolomite N60E 20 SE
NS 50E (Folded)
BG-831 2 OCs in drain
May 2 2012
BBG-892 top of Cem by Water
Tanks N 65E 40 SE sil Dolt
N 37 07 822 W 80 25 342

BBG-893 large block
lom upper Elbrook algal
ls in Ye
N 37 07 832 W 80 25 397

BBG-883 large Flow From
"intermitten Stream, just up
stream from large reservoir
old water supply in Upper
Beekmantown Limestone
and dolomite
N 37 08 122 W 26 443' NS 40 W
N 6 E 40 NW
BBG-872 spl N 37 07 753
W 80 26 742
N 60 E 25 SE bryozoan
packstone w/ large brach
or algal ocalites. OI?
BBG-873 N 30 E 30 NW
light gray weath gray ls
and dol w/ oolitic chert
layers
N 37° 07 650
W 80 26 787 — CCo
algal strom tex higly
deformed - Photo!

BBG 884
N 37 07 605 W 80 26 602
N 60 E 80 NW Obs
Obs

5 12/12 BBG-971 Lot for sal
Pepper St at Depot
N 37 07 965 W 88 24.700
light grey (creamy) colord
med gray finely xline
dolomite w/ thin silliceous
ribs (ribbon banded)
Massive algal beds
dolomitized rip up cgl beds
algal brokerms, cut
and fill structures N 80 W
20 SW - Good Eco OC
for field review
BBG-962 quarry in 1st dol
chert N 45E 50 SE photos
2 spls 1 1s 1 dol brec

BBG -
N 37 07 857 W 80 23 898
sandy dolomite float in
deep orange brown saprolite
Sil oolitic chert float
library N 37 07 938
W 80 22 .023
BBG-894 brecciated algal
gray microxline dol w/green
phyllite N 37 07 638
W 80 25 169
NR 221 dol gr. w/ 8"
Cross bedded SS layer N 30 E 45 SE
N 37 07 432 W 80 25 813

RNR-222 new lot at
Subdivision
N 37 07 342 W 80 26 030
deep mottled soils w
chert gravel sandy top
= d Td on Carb
RNR-223 corner lot on
Kensington and
N 37 07 267 W 80 26 105
N48E 72 SE dol, gry weath
chert or qtz vein pile
above some rnd cht
gravel (photo) corner Kensington
terrace
RNR 231 Water reservoir on
Nose at BBG Middle School
N 37 07 203 (W 80 25.65)
cherty soil = carb
RNR-232 oc in road bank
at N 37 07 .167 W 80 25.672
SS in weath sh+ls (Photo)
EW 20 S fossils in
SS ~ Ordovician Brachs
(Omb) or Boys (red ss)
BBG 796(B)
RNR-224 blk sh Photo + 1s?
Dezzie lane & Dianna OE
N 34 W 10 SW
N 37 07 168 W 80 26.017
BBG 225 deep orange sap (soil)
w/chert gravels one 1" ○ m 00
N37 07.291 W80 25.910

5/5/12 IRS 7-7-11 photo of
Td at new Shealor
Dealership under const
N37 08 19.2 W 80 22.037
N 37 08 628 W 80 29.975
5/

BBG 943

N 40 W 34 NE thk bed of chorty grg ls interbedded in mass lt gray weath dol

N5 RR at Bone Oil

N 37 08 502

W 80 24 407 ✓

Photos of cave ls ledges above

N 60 E 285 E

5/18/12 BBG 743 dolomite above spring N 5 10 W

N 37

BBG 744 N 70 E 45 NW thin bedded platy dol overlain by breccia dol, orange brn sdy w/ th dol and grn-orange weath shely chips in soil

bore on ridge

N 30 08 495 W 80 24.91

30 08 487 80 24 9

BG 745 gray massive layered algal ls, micritic w/ bioherm dl structure N 10 E Jones Photo

N 37 08 532 W 80 30 058 N 40 E 45'

BBG 746 thin bedded blue gry ls to
massive mottled algal dol in stream
~~N 40 W 46 NE~~ N 20 E 15 SE
bedds in stream bed broke
algal lam ls (lower Elbrook)
RDN 961 thn silt soil w/ tan
to green chlt phyllite chips
mapped as Cr by shultz
N 37 08 .645 W 80 30 002
photos of soil on steep nose
Ledges above creek below = slate ridge N40 W 24 NE broken blue ls w/ alg
BBG 747 below calf barn above
pond, lt colored silty soil
in road W breccate dol
blocks brecciated dol oo
on stream bank at
N 37 08 662 W 80 29 982
BBG 748 693 995
N 80 W 40 SW algal lam
blue gray L. Elbrook Ls
on ridge at N 37 08 513
W 80 29 955 W 80 29 980
N 37 08 527
BBG 749 gray dol brec
in strm bank N 37 08 562
W 80 29 781

BBG 7410 light gray to
white sandy topsoil
mottled orange-gry clay
subsoil
RDN 962 lt gray thin bedd
platy dol (lower fel)
N 30E 30 NW N 37°08 907
W 80° 30 298
RDN 963 lt gray, thin bedd
platy dolomite w thin grn
phyllite partings N 30E
10-15 NW at start of
farm Road N 37 08 905
W 80 30 225
RDN 964 Grn gry and
brn chl mtx dol breccia
breaks up to ∡ green-
brn gravel size clasts
on slope above
massive outcrop
photos at N 37 08 883
W 80 30 192
RDN 965 N 8 16 N
Massive dol breccia, grn dl
N 37 08 862 W 80 30 112
not come! lower fel

5/11/12 RDN 691
N52E 45SE Mccrady red and gray mdst w/ bedding

RDN-631 at tunnel Gate to RAAP
gently dipping dol ledges
Cross Fractures N30W 70 NE
bedding N50E 10 NW
Fold nullcon N 78 W 2 NW
N 37° 11.737
W 80° 30.553
el 1726 m

RDN-632 thin bedded brecciated dol in embankment, tufa below, Karst Valley to W N52E 20 NW
N37° 12.358 W80 30.0

RDN-633 el 1940 ft on spur behind house, orange weath argillite chips in soil on nose 75 m from CurPoint
rome sh on map
N37 12.327 W30.020

RDN - 634 Knob behind
house shows yellow orang
weath argillite chips
some red chips below
terrace bldrs cobbles + dol
in front yard el 19808
N 37 12 253 W 80° 30.0
RDN 635 ledge of sol.
bluish gray algal matte
bearing Micrite N 30 E 44 S
on slope. Elbrook ls is in
strat position above sh/a
RDN - 636 black xline dol float
RDN - 637 ledge of platy
to thin bedded butcher
block dol N 40 W 60 SW
el 19806 N 37° 12.133 W 80 30 11
158 W 80 30 17
Best loc 123 12
RDN - 638 Massive ledge
of brecciated dol N 50 W 20 S
N 3

5/11/12 BBG-6622
Now 20NE Massive ledg
of siliceous ribbon banded
facies dolomite light
medium gray weathers tan
typical tco dol
#1 1900 b N 37
N 37 11 232
W 80 22.958
Photos
5/13/12 BBG-151 redux
sample of terrase gravel
exposed in new house site
on top of hill - Joe Dove Farm
5/16/12 BBG-281 brecciated
gray and tan weathered thk
bedded algal dol N 20 E 40N
N 37 12 962 W 80 26.227'
No Qal above road
BBG-271 Heath Farm / Heath W
N 30 W 20 SW light tan-gr
Massive (thrombalitic) dol
between thin bedded-lam
ribbon dol (photos)
N 37°12.673', W 80°26.802'
BBG-272 lam-thin bedded

gray algal lam dol
exposed in drain
at N 37° 12 825 W 80
27.013'
N 20 W 12 SW
BBG 191 N 37 12.693 W 80 27 502
N 50E 65 SE red shly sap
thin slaty dol
BBG-192 Photos of Breccia
M/M + crackle, bedding
N 370 12 665 W 80 27.510
N 60 W 40 NE
BBG-431 N 4 W From Price Mtn Tower
old Farm house. N 80 W to barn
N 37 12.560 W 80 27.527
corner of 1/2 green w eatn
green shale ocs in graded
road by big fill.
N 84E 60 SE cleavage
N 60E 44 SE cleav in
green phyllite
5-17-12 BBG-
N 80 W 70 NE thk bedded
dol below bridge
BBG-262
N 34 W 08 SW burrowed
mottled gray and brn dol ls
by Duckpond

Turned 5/22/12 N 37 10 52.21 (.870)

✓RAN 551 W 80 22 28.33 (.472)

...ks BBG 192 B ✓ X MMb (de...

...S N 37° 12.719 W 80° 27.490

Aynew IRO 111A X OOLS Lime

...m N 37° 14.750 W 80° 21.887

...cksburg BBG 192A ✓ X Carbonat Breccia

...HS N 37° 12.728 W 80° 27.488

...BG BBG 192C ✓ X Rome Phyllite

...S N 37° 12.720 W 80° 27.477

I81 NBL IRO 6218 ✓ X MMB

Climbing Lane N 37° 11.962 W 80° 16.116

IRO 4711 Bays SS ✓

Lipsey Farm N 37° 10.598 W 80° 22.048

Hickory Hill North Farm IRO 1213 Bays SS ✓

N 37° 14.444 W 80° 20.889

IRO 5424 Fagg cgl (Ridge...

...ills ...idge N 37° 11.607' W 80 19.669'

V1 Research Center BBG 534 Anthracite

N 37° 12.381 W 80° 24.988

...81 BL ESN 1423 Omb.

N 37° 13.851 W 80° 14.365

F IRO 458 Bays (Walker Mtn SS)

N 37° 11.118' W 80° 21.351

SR 603 IRO 533 Millboro Fm

(SR Tunnel) N 37° 12.250 W 80° 18.01...

NOTES JAN 17 2012

BBG 3210 Orchards RecArea
Massive algal dol N30E
30SE ribbon banded ls
blocks in parts
Photos of Ribbon rx / algal
Stromatolites
large breccia blks (reef
talus? cemented
w/ 2nd carb dolomite

BBG 3211 Sed pond below park
Massive gray dol ledge
sticky orange clay, cherty
soily, some burrow mott
ls beds (photo)
N65E 10 NW Sink hole to E

BBG 3212 interlayered alga
blue gray ls (10c and
laminated to thick
bedded dolomite sed
pond 100 b 75 X 15' dee
N40W 8° NE bedding

BBG 3213 thk bedded gra
dol ledge N60W 8 NE

BBG 3214 Actively eroding
gully below Rpt cpx
N60W 10 NE shly beds
interlayered in yell oran
dol sap

BBG 3215 Photo of coase
dol blder breccia in
cut in Front of 1511
N10E 30SE

Day Runner

NOTES

BBG 1 S13 N 10 W 14 NE Massive gray dol ledge, cht FH

Jan 18 12 BBG 311 Thk red dol algal strom / hematite replacement, red and yellow sh + shly dol, Chert breccia float N 30 E 10 SE
N37 14 922 W 80 24 857

BBG 312 N37 14 925
N 05 W 6 SW W 80 24 895
more hem/ algal replacement

BBG 313 N 6 SE 10 SE
Massive light gray sandy dol ledge (B S S Co)
N 37 14.702
W 80 24.197

BBG 314 N 37 14.732 W 80 24.168'
sinkhole in woods
25' dia

BBG 315 N 30 E 8 SE thk-med bedded dol ledges on rim of 75' dia sink 15' deep
N 37° 14 780 W 80° 24.145'

BBG 3216 laminate dol ledge in Creek
N 34° 14.978' W 80 24.105
N 58 E 6 SE

Item # 033-3

NOTES

BBG 3217 Spring burged beneath
Georgia street N37 15.0 W80°24.298

BBG 316, Massive Dol Ledge
N56E 8SE
N 37°18.880 W80°24 4
BBG317 N50E 9SE gray fine
Xline dol
N37°14.790 W 80°24.515
Jan 19/2012
NPT 981 N 37 15.000
W 80 24.037
butcher block weath
massive bedded cherty
dol
N84E 6SE dip

BBG 3 115
N 37 14 953 W 80 23 992
trail fork wagon
trail crosses Indian
Run N 20E 6 SE
Frac across st bed
1/20/12 N36 E 80 NW
BBG 319 dol, thin bedded sandy
ledge along Giles
at Rec center
N 37°14.647 W 80 29.782
N80E 6SE
ribbon rock w/ ~~sandy~~ lam
BBG310 algal strom bed white
crome strat dol (photos)
N37°14.655 W 80°24.847
N60E 10SE

NOTES

BBG-311 N40E 10 SE light color dol ledges in field
N 37° 14.497 W 80° 24.
BBG-312 N37 14.435 572
W80 24.760
Sand stone pebble sized float no OC on this ridge sandy brn soium
BBG-313 Photo of SS & dol chips in soil behind Church mostly sub rounded SS — stream deposit?
N 37° 14.448 W 80° 24.918'
BBG-314 N80E 10 SE 3' 1am - straticulate dol ledge below SS Float
N 37° 14.480 W 80° 24.958
BBG-321 N&W 80 NE brecciated elbrook fine gry-tan dolomite fault or cleavage? N 6W 60 NE
N 37° 14.322 W 80 24.988
BBG-322
N30W 50 SW shly dol in Ck behind Service Sta
N 37° 14.340 W 80 25 40
BBG-323 med - thin bedded dk gy dol in creek N 30 W 7.5 SW
Photo, shly dol upstm
N 37° 14.462 W 80° 25 077
BBG-324 red brn cly sap w/ tan dol/sh chips bk-dk gry dol clasts
Cross Cal?
N 37° 14.723 W 80° 25.038'

Item # 033-3

NOTES Jan 24

BBG-665 N 30 W 15 NE 1am (sil)
thk bedded dol at el 1720 b
N 37 11 297 W 80 22 63
BBG-666 el 1820 b sink hole
and dol ledge
(GPS) N 37° 11.225'
W 80° 22.567'
Photo of Ledge
massive chert dolo
discont strainsers 5 LMS
Along bedding
EW dip 12° N
1st display st dolom led
formation hillside solution
depression below ledge pass
cave below at
2nd BBG 667 1800 in cleared
area res is chert dol Led
on trail st N 20 W dip 24 NE
Lat Long N 37° 11.170'
W 80° 22.593'
BBG668 water supply elevation
Sp box agn dol ledge,
elev 1810 N 37° 11.133'
W 80° 22.640'
BBG 669 1800 Th Bed dol ledg
nd crosses at
N 37° 11.120' W 80° 22.6
Ledge str N 32° E dip 16° SE
BBG670 sink hole 75' diam
15' deep conical
cherty dolo on surface
Elev 1770 deepest
N 37° 11.072' W 80° 22.512
out crop upper lima
str dip N 15 E 20 SE

NOTES

Photo 2nd of sink hole
BBG6611 1750 or 1760B elev
N 37° 11.008'
W 80 22.630'
Beck dol Th bed chert
stri N 20E dip 36 SE
Trail cross Ledges in
Scarp area
BBG6612 1830 ele
GPS N 37° 10.988'
W 80° 22.708'
open Fracture photo
Str N20E Dip 60NW
Bed seems N10E 24 SE
BBG 6613 1880 ele
little Bench below
highly Fract dol Led
steep Fr
N 56E dip SE at 70
possible cave intr
below on a bench
N 37 10.998 W 80 22.113
BBG 6614 el 1950
N 37 11.063 W 80° 22.722
light gry sandy dol
ledge top of sec
exposed below N10W 50NE
BBG — 6615 el 1800 6
N 37 11 238 W 80 22 592
N50W 10 NE cry gr dol
~ 30' above amphitheater
1/25/12
BBG— 6616 saddle SW of
trail switch back
massive dol ledges

Item # 033-3

NOTES BBG-6616 ctd.

N37° 10.973 W 80° 22.772'
N18E 30SE
BBG-6617 big long doline
100' wide 300' long
at deep spot N37° 10.962
el 1940 b W80° 22.837
dol ledge on SE wall
N26W 20NE
BBG-6618 2nd steep conical
doline at el 1950 b
N37° 10.990 W80 22.820
75' dia 15' deep
Photo of Fract at NE
end thk bedded to strat. dol
Bedding N 20W 20 NE
Dom fracture dir N14E 80NW
BBG-6619 Cave in deep dol.
w/ Comet? Photo
Bed N 5° 40E
Frac N40W (Cave) 85 NE
Frac N60° E 80 NW

Tan 30/12

BBG-6620 Med bedded gray
dol ledge el 1780 ±
N20W 20 NE
N37° 11.265 W 80 22 653
BBG-6621 el 2000 b N15E 20E
N37 11 090 W 80 22 737

BBG-6622 stone wall at
SW end of b.g Karst field
el 1990 N37 10.817 W80 22.000
b.g. turnaround looks like
proto subdivision road
embankment and fill area
N37 10.800 W 80 22.983

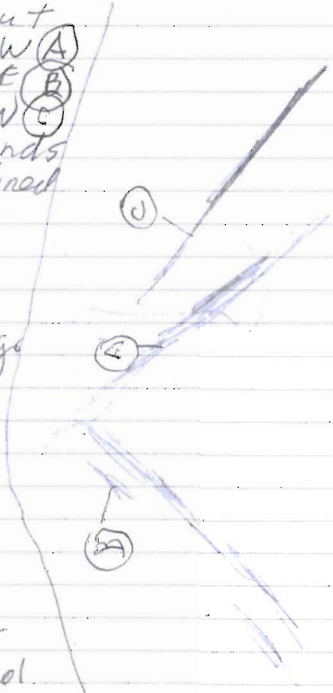
Day Runner

NOTES BBG - 698 200 yds NW of SR

Fg dol and SS Float (Pic)
possible algal structure
in SS
N 37° 10.705'
W 80° 22.962'
el 2060b

BBG - 699 100 yds NE of SR
SR on NW side of Ridge
at el 2140b N 12 E 38 SE
N 37° 10.820' W 80° 23.032

Fractures in cut
N 10 E 60 NW (A)
N 50 E 50 SE (B)
N 20 W 20 SW (C)
Main cut trends
N 72 E inclined
45 NW



BBG-6910
N 10 E 20 SE
med bed fine gr
lt gray dolosn
massive rubble
fill to N
N 37° 10.838'
W 80° 23.122'
2050b

BBG 6622
N 20 E 40 SE
Thk bedded dol
gry to v l gry
20' thk spoil pile
25' to N
N 37° 10.867 W 80° 23.062'
el 2100b

Top of Fill photo N 37 10.075'
W 80 23.020'

Item # 033-3 BBG 622A

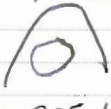
NOTES 1/30/12 Tuesday

BBG - 591
N37 18.367 W80 24.940
Photo of pink to light brown phyllite chips (tel)
No red shale —
behind shelter at Mont. Park and Swimming Pool

BBG - 671 just below motor pool shop on Trail blocks of Bluish Gray Algal limestone, and thin bedded arg. dol = Eel lower
Photo of stromatolite
N37° 10.370 W80° 24.92

BBG - 672 just below dog pound
N 24 E 60 SE med gray micrite and sandy dk gray dol layers
N37 10 385 W80 24 853
Eel (lower) Photo of ls and lam. gray dol below

BBG - 673 Photo of round dol pebble in blue gray alg. is on point



N26 E 48 SE

N 37 10.395 W80° 24.798

BBG - 674 large spring in Karst valley
N37 10.460 W80° 24.780
photo

BBG - 675 Thk bedded gray dol ledges 8c above trail
N50E 34 SE
N37 16 427 W80 24 767

Day Runner

NOTES

BBG - G76 yellow orange shaly weathered dol ledge in stream N 20E 50SE N 37° 10.383 W 80° 24.683

BBG - G77 gray thk bedded to lam dol N 30 W 60NE N 37° 10.392 W 80 24.623

BBG - G78 dk gray massive to thk bedded dol N30W 30SW N 37° 10 432 W 80° 24 540 100 m to track

BBG - G79 blue gray algal ls Float, small doline on hill side N 37 10 413 W 80 24 493

BBG - G710 yellow phyllite chips, Fragments of Fourous dol matrix and typical breccia fragments on knob at N 37 10 390 W 80 24 497

BBG - G711 pink - tan weath phyllite chips on knob N 37 10 322 W 80 24 568 Cl - lower

NOTES

BBG 653 hilltop Trask + Commerce
Oc, ss flt in soil
N37 11 535 W 80 23 360

B001

BBG 654 N 20 W 16 NE algal
Stromdol in sed pa
N37 11 483 W 80 23 280

BBG 6219 WP N37° 11.817'
dol oc across W80° 23.663'
street from
BT Conference N 20 W 16 NE
massive close jointed gry
dol w/ strom

BBG 6220 Massive dol
ledge by bus barn
N10 W 20 NE Typ Crm Ecr
N37° 11.610 W 80 23.72

BBG 349 Eakin & Kentwood
Stromatolite in boulder
ripped out of building sit
WP BBG 349 N 37 13 635
W 80 24 332

BBG 328 photo of old Quarry
thk bedded dol N45 E 8SE
N 37 14 552 W80 23 388

BBG 591 N 50 E 40 SE
red yellow and brn
saprolite of siliceou
argillite and meta
siltstone in new
road cut N8E fro
Corning Smokestack
N37° 10.545 W 80° 25.4

Day Runne

June 7 2012

NEW -- 1 cloyd cgl
oc at corner w FS 188
and 460 lt gry - gry
ss + sh beds rusty red lstone
cgl weathers bumpy, N 80E 20 SE
N 37 16 893 W 80 26.597
white qtz ss 9.8

NEW -- 2 ledge N 20E
40 SE ~ 6' coarse
qtz cgl cross road by
ccm N 37 16.798 W 80 26.72

NEW -- 3 Horse Nettle
Trail head at N 37 16 367
10.4 trip W 80° 27.285
-- 3a 100 yds S of trail
cloyd ledg N 20 W 20 NE
~ 2' ledge N 37 16.327 W 80 27.2

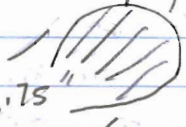
NEW -- 3b Old road blocked
w cgl blkrs N 37 16.333
W 80 27.292

NEW 4 N 37 16.243 W 80 27.53
road goes off to left

NEW 5 Blacksburg
com Facility
N 37 15.813 W 80 27.942

NEW--6 Trail Circles Sign
Horse Nettle goes to SW Road to S
N 37 15 803 W 80 28.020
Fire Trail Tower Site el 2840
SW N 20E 22 SE
NEW --- 7 N 30E 20 SE
thin bedded gry qtz ss
Ocs in road at el 28206
N 37 15 735 W 80 28.110
NEW --- 8 Int Horse Nettle
and Snake Root trail
N 37 15 575 W 80 28 315
el 28206 N 45E 30 SE
thin bedded lt gy tan ledge
qtz ss in trail
NEW --- 9 N 30E 20
1st cgl ledge crosses
gate way trail ~
5' thick el 27006
N 37 15 462 W 80 28 278

NEW --- 10 line crosses
road - bearing tree at
N 37 15.342 W 80 28.518
el 2750 6 Thin bedded
gray ss yellow clay soil
N 50E 45 SE

NEW --- 11 on crest
Float of gry ss w
large  coarse
ribbed .75" brachiopod
shells, mostly broken
N 37° 15.170 W 80 28.778
el 2740 6

NEW --- 12 on curve
crossing Property line
at N 37 15.045
W 80 29.137
gentle basin on nose
el 2750 6

NEW --- 13 N 50 E 40 S
thin bedded qtz oze
slt sn, Fine sand w/ yellow blaze
orange silty soil el 2700
N 37° 15.073 W 80 29.297

BBG 111 cl 2600
N 37° 14.970 W 29.233 Brn
Fine grained slsn & Fg ss
Float on logging road
N 65E 36 SE white
fine grained thin bedded
qtzite 2' max
al N 37 15.017 W 29.260
NEW --- 14 good chemung
foss. ll bed - punky orange
weath calcisiltsn w/ bi
large molds of brachiopods
CN 37° 15 052, 80° 99.415 W
B19 112 BBG-114 Toms Ck
at least 6' al exposed

June 7, 2012

BBG 111 el 2600b
N 37 14 970 W 80° 29.233
Good Chemung sl tSS
N 37 15.017 W 80 99.260
N 65E 36 5E white thn
bedded qtz arenite in
road bank
BBG 112 at hist Δ pt
no monument. Brown
weathered qtz ss Flt
on road, orange yellow
punky weath Fossil slts
beds el 2850 +
N 37° 14.990 W 80° 29.813
BBG 113 el 2780 b
N 37° 14.965 W 80° 29.68
thin bedded fine grained
tan pink to lt gry
ss and sltsn Ocs in road
N 44E 38 5E
BBG 114 el 2 590 b on
old fire trail. Gray mtx cg
basal cyl (Cloyd Ocs
as thk ledges in woods
pebbles of white qtz

JUN 8 '12 BBG 13' thk bedded
upper Elbrook dol N86 E
10 SW gentle open fold hinge
need photo

BBG 132 N44E 34 SE
2' SS in brn sh crosses
creek at el 1940 b
N 37°14.960 W 82°27.630 Mpl

BBG 133 el 2000 first switch back
N 37° 15.600 W 80°27.682'
small flat at stream junctn
gray clay
collapsed adit, pit ~ 2 seams
prospect or small mine (ruins
along ck el 2000 b
N 37 15 010 W 80° 27.670

NEW — — 15 el 2050 gry
SS N42E 28 SE
20' above coal pits
N 37° 15.040 W 80° 27.686'
NEW — — 16 el 2100 b N 37°15.07
gry slty soil crossing W 80° 27.76
old woods road on contour

6/8/12

NEW ___ 17 Thick brn weath
qtz ss ledge in trail N64E
16 SE at el 2180
N 37° 15 .073 W 80° 27.843
upper price w/ lite sand soil
NEW ___ 18 trail swings
W around nose on coarse
lithic qtz arenite ledges
no big pebbles of coarse
sand at el 2250-70
N 37° 15 .137 W 80° 27.94
ledge strikes N 60E 18° SE

NEW ___ 19 trail swings w
across coarse cgl ledge
w qtz pebbles up to 1"
sandy soil at el 2350
N 37° 15.293 W 80 28.103

NEW ___ 20 trail swings
NE to bipass 12-20'
ledge of white-lite
gry med-thk bedded
cgl qtz arenite el 2400
N 37° 15.355 W 80 28 1
a few beds thick enough
for mill stones
NEW ___ 9 redux el 2640
basal cloyd cgl ledge
N 37° 15.457 W 80° 28.275'
11 28 am June 08

6/9/12 BBG 114
Toms Ck 6' al on banks N 37 14.557 W 80 27 8
bridge on heritage Park Trail
BBG 115 N80E 50SE brecciated
lt gry xline dol w/ tan argillite & slaty layers, extensive white veins (calcite) cut old fabric N30E 80NW N 37° 14.502 W 80° 27.870
BBG 116 N70E 40SE dk gray thin bedded LS N 37
BBG 117 N30E 50SE thin bedded lt gray platy dol. N37° 14.470 W 80° 27.58
BBG 118 N 26 W 48 NE platy dol. ldg in creek at N37 14.560 W 80 27 603
BBG 212 in Park next to tennis court, no rome on traverse N37 14 287 W 80 27078
BBG 121 Red, brn and green shale or slate N 80 W 64 SW (mmc
BBG 122 gray sh/slt coal bloom on road cf 27506 N 37 14.505 W 80 20.600

BBG 127 concrete cistern (coal Fl or well head, water 2-3' below
cl 2200b N37° 14.587 W80 28.615
BBG 123 el 2220b
on ss ledge in road
N 37° 14.612 W 80°28.658
N82W 20SW

BBG 124 el 2250 another
Mica lithic ss crosses
road at {N 37 14 645}
N74 W 18SW {W 80 28.710}

BBG 125 cross yellow blaze
to ll road w/ ss Flt and
lite sandy soil in saddle
barometer corrected +z 239c

BBG 126 el 2420, white
to lte gry qtz pebble
cgl pebbles ~, 150 mm in float
N37° 14.805 W 80° 29.053'

BBG 1115 el 2580b head
of drainage to west, end
qtz ss Flt begin brn ss + sh
chips in soil = Dch (Dfs)

BBG 127 N82 W 26 SW
cg pebbly ss ledge crosses
trail at el 2480 - 2500
N37° 14.870 W80 29 065
cg blks to NE

BBG 128 along yellow blaze line 4 wheeler trail crosses top of cloyd (Flt, el 2440
N37° 14.813 W80° 29.053'

6/18/12 BBG-116 slate & waste coal dump on powerline at el 2150 N 37 14.277 W 80 29 09
BBG-117 N 80W 38 SW 2 coal blooms 10' apart thickness upper bloom 2' lower bloom mostly black sh
N 37 14.312 W 80 29.698 el 2460
BBG-118 el 2420 E-W 16'S top pebble ledge OC in road bed N 37°14.697 W 80°29.50
just above break in slope on old road white to grey f-my qtz ss w/tn larg (1") lithic fragments weathered out in moldic form, carbonate or clay clasts?
BBG-119 N 52W 14 SW med bedded gray to tan weathered lithic ss w/ hummocky, rippled bedding at el 246
N 37° 14.732 W 80 29 585

BBG 110 abundant blks
and bldrs of coarse
rusty to white qtz
pebble cgl at el 2550b
N 37 14.800 W 80°29.563
Cloud turned around in bn ss
at 2575 saddle at
N 37 14.857 W 80 29.563

BBG 114 redux el 2540
N 37 14 807 W 29 530
BBG 1111 brown rusty qtz
ss ledge, few pbls
crossed road el 2420
N 37 14 703 W 80 29 680
Cgl lenses, calc or clay
clasts
N 74 W 24 SW
BBG 1112 N 20 E 34 SE
read weathered fine ss
+ slt mica qtz el 2200
road turns left
N 37 14 335 W 80 29 670
BBG 1113 caved adit el 2130b
N 37 14.270 W 80 29.685

10/24/2012 reviewed Statem
2012 Eastern Seismological
Society of America
(www.geol.vt.edu/outreach/
VTSO/essa2012)
BBG-954 N80E 80SE
blue gray ls ledgy cg bur
Fragmental text

BBG-9810 newcut in
rot across From Wades
white Sil. oolite bed
~2' thick in sandy
dol residual soil N36W
16 SW Sp/ N37° 07.868'
Sample W80° 23.867