NOV 2 2009 Setup for elliston Fieldreview

ESN 37 21 72

80 10 27

744 Rocky Road

To

STOP 1 at Bottom Ck WP 098

N37° 07.733 W80° 10.725

el 2419 Coarse Charnokit

Augen Mylonite gneiss

Geochan Myl Foliat

Just Past 100 75 Bottom Creek Rd

Walk back to other drive

to View beginning of Falls

STOP (3) WP 099 N 37 08 730

el 2550 W 80 08 774

V Coarse Porphyritic

Bottom Creek Charnokitic

Gn.

STop (2) transect Lower Unicoi

on Fauvell Creek Road

to Hampton Fm at WP 101

N 37° 08 824 W 80 10.302

el 2682

STOP 4 Blalock Gneiss @ WP 101
N 37 10.388 W 80 08.003
el 2696
Med gr granoblastic
hbd/pyroxene epidote Kspar
granofels

STOP 5 Base Unicoi
WP 102 N 37 11 389
el 2912 W 80 08 475

STOP 6 Metavolcanics in Unicoi
WP 103 N 37 11.655 W 80° 08' 654
E 3183

STOP 7 Upper Unicoi Jelly
Bean cgl at WP 104 N 37° 11.781'
W 80° 09.784
el 3833

Redo WP 105 N 37 11.215 W 80 09 781
3806

Turn around at laurel Creek
Road at WP 106 37 10 564 W 80 11 098
el 3284 Road to SW Blocked
by equipment

11/2/09 Pyroclastic

Stop 8 - WP 107

N 37° 13.110 W 80° 08.002

el 1798 el 1865 -70 b

Photos of cashed spls

Note bench

Stop 9 Rome below BRF

el 1390 B WP 108

N 37 13 711 W 80 07 993

el 1435

Stop T~~0~~ Shady along

stop 11 Roanoke ~~Valley~~ Flt

Stop T~~2~~ Salem Flt on NEW

Elbrook / Martinsburg

WP 109 Creedsville Trenton

N 37 14.168 W 80 13.732

Salm Flt in Salem Quarry

WP 110 N 37 15 068 1353

GNL W 80 11 342

Stop T 2

Stop T 3

Stop T 4. Pulaski/Salem d Rds
Thrust Sheet Broken Formation
Zone along SR 603 WP 115
N 37° 14' 182 W 80 13 009

Stop T 5

Stop T6
Sil-Dev Qtzite Silver
SCM Flt Zone at MP 130 WP
N 37 14.683
W80 12.609

Stop T7 Borrow Pit in Milboro Sh Wimmers'
David Wimmer 540 382 5787

Stop T8 Sparrow Pit in Brallier at D. W. Howards
WP 113 N37 45 71 Fault
el 1603 W80 14 127 SHSN Sh

Stop T9 Lodge of Four Knobs
Peese Mtn Road
WP 114 N37 15 096 W80 14 740
el 2214 Glenvar Quad
Fine SS/arg, beds
N3

Super 8 East	540 382 7421
Holiday Inn Express	540 381 5302
Hampton Inn	540 381 5874
Quality Inn	540 382 2055
Fairfield Inn	540 381 9596
Econolodge	540 382 6161

NOTES 3/30/09 WP 287

ESN 7514 Sink hole 15' round 10' deep
2137 along road at N 37 08934
2130 b Red and Yell. W 80 13.404
argillite Sap in road above

ESN 7515 Photos of burrow pr ytsto calta
clast blanket Repocket = Eer
outline of Jasper lens based
on Float along road

ESN 7516 20 E-W 20N grn argillite Sap
WP 288 in road cut, silicified
N 37 09.18 breccia / orange Jasper blds
W 80.13.284 in soil above el 2101 (2120)

el 2280 ESN 7516 Rd, y/w, grax sh + arg w/
(22906) WP 289 tan burrow structures,
N37°09.146' slaty cleav. Bedding N35E 72 NW
W 80° 13.368'

ESN 7517 N35E 70NW Rd and grn + y/w
WP 290 weathered argillite w cleavage
2223 N37°09 245' W 80° 13.373'
(23806)

ESN 7328 el 2273 above PL Laminated
argillite N55E 55 SE
N37 09 402 W 80 8 .313

ESN 7330 WP292 N37°09 453 W 80° 13.276'
el 1990 buriowed Calamitic ls massive
20506 N35E 38 SE bedding

March 31 clear, warm
ESN 749 on powerline at 1550' Argillite
Photos layer in dolomite W inclined
of Power axial plane Folds plunging
Line 310 at 10 SW dol is silicified
w/ vuggy zones dol above N30
50 SE

Day Runner

NOTES

ESN 773 el 2000 b yellow weathered argillite in front yard of new house
WP 293 N 30 E 84 NW BPC 1931 el
N 37 07 87.1 W 80 14.164

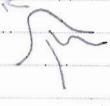
ESN 780 10 oc of red grn ylw argillite
WP 295 W/ slaty cleavage and BPC
el 2100 beds N 35 E 72 NW 2140 b
N 37° 08.184 W 80° 14.015

ESN 781 N 45 E 75 NW, blk and white mottled dol oc to SE on knob
Knob has ^ dimple as ant
WP 296 2117 N 37° 08.222 W 80 14.029

ESN 782 dol thn grn + rd arg on knob
el 2143 N 35 E 40 NW cleavage (BPC)
21006 in argillite at WP 297
N 37° 08.123 W 80° 14.135

ESN 774 ledges of red arg.
WP 298 N 20 W 80 SW 21106 (2103)
N 37° 08.046 W 80° 14.316

ESN 775 ledge w fold hinge
WP-99 ap N 45 E 55 SE hinge
2079 N 35-40 E 15
Rabbit photos N 37 08.142
Ear W 80° 14.348'



ESN 776 Photo of UT chair in
WP 300 dearstand OC above, rd arg
1994 clear N 10 E 75 NE barometer
(2050) N 37° 08.219 W 80° 14.418

ESN 777 coarse silicified breccia
WP 301 float, blk chert in saddle
N 37 08 335 W 80 14.550' el 1844 (1840b)
Orange clay 560

Item # 013-200

NOTES 3/31/09 Clouding up at 2:15 pm

ESN744 10 N 35 E 58 NW BPC? green
WP302 slaty argillite ledge on
2028 ridge crest at N37°08.440
(2040ft) W80° 14.638'

ESN745 11 N45E 80NW y/w, grn and
303 WP rd arg. w/ brn el 2030/2040
N 37°08.564 W 80°14.612'

ESN746 12 cherty dol, weath orange
WP304 w/ dk chrt N 35 E 65 SE
bedding N37° 08 646 W80°14.625'

ESN747 13 dol, massive gray, blocky
WP305 jointed beds N45E 24 SE
1830 N 37° 08 758 W 80° 14.680'

ESN748 14 Transition to lam argillite to SW
WP306 N30E 60SE beds in creek, drab
N37°08.741 gray arg weathered orange thin
W80°14.567 beds on creek bottom el 1540ft
el 1953

ESN749 15 N 40 E 20 SE bedded ls in
WP307 creek grg above w slaty
clean N 34° 31.448 W 81° 24.698

ESN750 Ledge of argillite N40E
WP308 75 NW on spur at el 1700ft
1690 ϕol ledge to SE N37 08 320
W80 14 353

ESN751 Road switches back at 1840
WP309 red arg clean 330 70 NE
E 1802 N 37° 08.221' W 80° 14.191
(1840ft)

ESN752 16 Digital Photo air strike
on argillite ledges on knob
along power line

Clay Runner®

NOTES 4/10/09 Sunny Warm

BMT 666C blk green coarse grained chatnokitic granitoid

WP 316 N37° 11. 398 W80 00 242

211290 ESN 667 B coarse porp g+z gart pyx gbn

BMT 666D lt gy to white leucogranitoid med-cg Inter layered with green charnokitic granite Layering N30W 20 NE

ESN 1324 N 75 E 65SE Braiding? Of occurs > SW at 205W (N20E)

ESN 1325 Karst on NW pink ch.ps = Om6/6 N60E 55SE thin calcarenite in Om6, Bags like pink shale on Td. (Q) top white gtzite block on Td.

ESN 1326 N65E 65SE thin Gadded tan mica rich fg ss legals 6 ms road bank Om6 or P6? olive shale =

ESN 1327 bench on steep slope w/ cave appears to be thast slice N GEE 15SE

ESN 1328 Mtl bed 55 sh N65E 75S

ESN 1329 290 15 NE

Item # 013-200

NOTES 4/13/09 Cool Showers

ESN 1419A Db — gry-dkgry brn weathg sh + sltst n 285 45 NE
Photo 1419A WP 311
N37°14 029' W80 14 414

ESN1411A photo of cross fault in Brallier Nexit to 5131 I-81 on RNK River
N20W 655W
Cuts all Brallier.

ESN1217 massive gry dol beds in rail cut. N50E 23 SE

ESN1214A revisited sh/sltsn OCS along river dk gray to olive argillite highly slickenfaced scratches hammer head. Must be Db

ESN1326 highly Frac gray dol. N80E 30 SE ledge trend.
Cross Ffactures
N40E 58 SE
extension veins / mudcracks / shears.
N10W 85 NE slaty arg above N85E 30 SE
then dk gry shale

ESN1326 Massive orange stained dol ledge w/ breccia
N40E 23 dissolution layers pod } N50E 15 SE layers
cross fault **N5 75 E**
NS 73 SE Slickensided joints

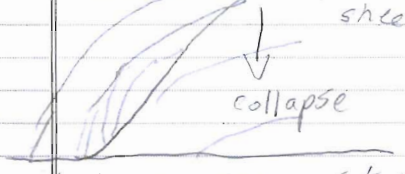
Day Runner

NOTES 7/1 Gash veins on NS groove Fractures

ESN1626 WP 312 N 37 14. 190
el 1270 W80 13 022

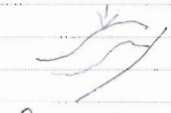
FSN1620 Shaty bed in
WP313 N27 14.159 W 80 12.995 N50E 23SE

ESN1621 Photos of collapse zone in imbricate thrust fault sheet on 603



beds on ramp strike N 55E 60SE
ramp strikes N35E 30SE
some green gray // the on ramps

ESN1622 Photo of green shly dol beds w/ fract gray dol above
WP314 el 1252 N 37 14 046 W 80 12.880
Folds in dol on s/s detachment bedc Ramp N65E 50SE hinge N 15E 3 NE



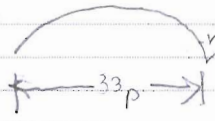
ESN1623 Polished surface N10W82
NE photos one set of groves
175 30 SE
el 1030

Top view of surface

WP315 N37 16.941 W 80 12.839

NOTES

ESN1424 Photo of open anticline N70E 04 NE delin by shly beds in cal



4/17/09 BMT 6316 OC of mylonitic cg gran gneiss at

WP316 1352 BMT 6317 N 37° 11 420 W 80° 55 476' Rock pile = cg granulite/charn just beyond drain

BMT 6318 fg granulite bldr in stream, diabase or basalt pebbles in bnk and in concrete mix for old bridge N30E 60NW

BMT 6319 coarse augen mylonite gneiss ledge at WP 317 N37 10. 052 W 80 00 497

BMT 6320 mafic sap along pipeline drainage w/ seep

WP 319 1128 BMT 6321 Parkway N37 11 793 W80 00 479 ledge of cg fgf gran on SB diabase ? Float at drain

ON NBL

Day Runner®

NOTES

I BMT 586 Redux - coarse
WP320 augen mylonite at WP
1726 Metz Run overlook
N37.0528 W80 06.698'
el listed 1875
ESN 472 Redux
WP321 N 37° 10.554 W 80° 06.659
2555 2560b

ESN 4T

1 | 12 | 09 DATE

monday DAY

GLV897 DIARY AND WORK RECORD

Beds at beginning gy dol mdst / high veinal
N 70E 35 NW WP 3[illegible] N 37 15 045 W80°10 458
Fold at WD 692 EW plng 10E bed N 70E 50 NW

ESN 232 N75E 40 NW thin bedd
[illegible]
WP 393 N 37 14. 926 W 80° 10 518

ESN 233

ESN 233 N80E 65 SE
highly fract dol dk gry
WP 394 N 37° 14. 819 W 80 °10 577

ESN 234 N80E 45 SE ledges
of dk gry fract dolomite
stream bed WP 395 N 37.14.819 W 80.10.577
joints N25E 60 NW N75E 75 SW

ESN 236 shly/massive dol above
WD 396 bridge N
N 37 14 741 W 80 10 517

ESN 236 shly dol
strat bedding E W 70 S
bedding N80E 47° SE
WP 397 N37 14 691 W 080° 10 535

ESN 237 WP 398 N37
massive gray
dolomite N80E 30 SE

ESN 238 WP 399
N 70 W 50 SW

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE

DAY 1/12/04 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 ESN 251 WP 401 N 37°14.088
W 80°11.252
0800 Shly dol soil on ridge
9 lodge ledge N70W 80 SW
0900 between houses
10
1000 ESN 252
11 Red brn argillite w/ slaty
1100 cleavage N70E 50 SE
12 WP 402 N 37 14.148 W 80 10.993
1200
1 ESN 221 red argillite at WP 403
1300 N 37 14 253 W 80 11 025
2 N75E 74 SE
1400
3 ESN 222 on WBL. Also
1500
4
1600
5 N50E 55 SE
1700
6 ESN 253 Red brn argillite chips
1800 in embankment at entrance
7 to Campbell Hills Subdivision
1900 WP 405 N 37 14 165 W 80 11 080
8 Prickly Pear Cactus on Slope
2000
ESN 223 lt gray Fract dol

TO BE DONE TODAY (ACTION LIST)

ledge s N75W 32 SW
WP 406 N37°14.535 W 80°11.507'

ESN 224 Shly dol / yellow weath shale
N70E 80 SE cleavage, mottled
ls lodge above WP 407
N 37° 14' 574 W 80° 11.685
el 1436 1420 at water
meter

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1-12/09 DATE End miles 36 DAY

DIARY AND WORK RECORD

ESN 211
EW 48 SE fossiliferous gray dolomicrite w/ yellow-gray strip
Fireplug at WP 408 el 1286
N 37 14.506 W 80 11.791
WP 408 next lot el 1279
N 37 14.507 W 80 11.779
Med - thin bedded fine gray dolomite w/ calcite veins N60E 64 NW

ESN 225 el 1600 el 1669 (1575 B)
WP 410 N 37 14 735 W 80° 10.478
N80E 38 NW thin bedded gray dolomite and yellow weath shalgely dolomite chips in red brn soil

ESN 226 el 1666 ft (1660 gps)
dol blocks shly chips in red soils
County of Roanoke Well house on side road WP 411
N 37 14.808 W 80 11.697

ESN 227 County Well house at WP 412 N 37 14 722 W 80 11.378
elevation 1330 ft

ESN 254 old pond or lagoon below Campbell hills, now Sewer pump station
WP 1169 N 37 14 092

ESN 241 W 80 11 525 Rome shale Chips N 37 14.155 W 80 11.365
blds of ech WP 415

ESN 242 [illegible] w/ dol blocks on wall WP 414 [illegible]

ESN 243 thin bedded dol ledges above road

1/13/09 DAY — Bible Workshop DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 228 Orang y/w weath sl and thin bedded gray dolomite ledges N 80E 45 SE WP 416
9 0900 N 37°14.326 W80°11.060
10 1000 ESN229 at end of road 285° 70 SW laminated dk gry dol
11 1100 WP 417 N 37°14.486 W80°11.113 many shears, white calcite
12 1200 el 1237
1 1300 ESN2210 WP 418 el 1291 N37°14.384 W80°10.960. EW 45 S
2 1400 gray fine grained med gray dolomite ledges bcbw / yellow weathered
3 1500 shaly beds above to SW end of cut
4
1600 ESN239 WP419 el 1278 N 37 14 682
5 1700 W80 10.245 EWb / ER
laminated tan-greenish gray platy
6 1800 dolomite, photo of strange breccia ball 280 42 SW
7 1900
8 2000 Photo of bass akwards detachment folds

TO BE DONE TODAY (ACTION LIST)

ESN 2310 > EWb
Massive lt gry weathered sandy dolomite overlain by thin to thick bedded dk dol. WP 420 N 37 14.736 W 80°10.160 N70E 40SE photo boulder terrace in east end of cut (photo)
ESN 2311. WP 421 N 37°14.793' el 1245 (1263 ft W 80°10.205 up to 3 folds in T1

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1-13-09 DATE Bible Workshop

DIARY AND WORK RECORD

Kathy Mother in law.
Joany Brother.

Samuel prophet of the God –

do this about answering the Lord?

Peterson: Language in revelation personal address is how God speaks.

Brueggemann: The form of the narrative is a dream trophy "newness". There is a possibility for newness.

Calling – Kathy funeral

1/14/

colored pencils
plastic pouch
pencil sharpener

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800	
9 0900	
10 1000	
11 1100	
12 1200	
1 1300	
2 1400	
3 1500	
4 1600	
5 1700	
6 1800	
7 1900	
8 2000	

TO BE DONE TODAY (ACTION LIST)

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11/3/09 DATE DAY

ESN 2313 DIARY AND WORK RECORD

tree roots show yellow and orange brown weathered shly dol or argillite at ~2' below surface which is covered w/ alluvial cobbles and blders rotated back seems near horizontal Foliation. WP 422 @ 1127 N 37 14.851 W80°10.228'

ESN 244 brown and black shale or slaty argillite ledges in River bed 280 55 SW WP 423 N 37° 14.042' W80° 11.927'

ESN 245 ledges of dk bluish gray slaty argillite with mica glint on cleavage surface weathered brn and greenish gray 280 57 SW makes prominant riffle at WP 424 N37°14.006 W80° 11.835 Photo

ESN 246 massive bedded to med bedded med gray rexline dolomite N85E 75 SE in river @ WP 424 N 37 14.189 W80 12.414

ESN 247 massive gray dol ledge in river at WP 425 N37 14 188 W80 12.355 N70E 45SE

ESN 248 massive to fine bedding gray dol ledge in river at WP 426 N 37° 14.192 W80° 12.

ESN 249
N70E 35 SE yellow orange argillite sapro
w/slaty cleavage WP 427
N 37°13.980 W 80° 12.393
@ 1256

1/14

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 2410
highly fract mottled dk gry & blk
9 0900 Cherty dol N60E 65 SE
orange-yellow slaty argillite
10 1000 above is continuous w/ brk. Pit
WP 427 37°13.706 W80°12.518
11 1100 bedding plane cleavage in sap
290 17 SW
12 1200 E-W 30 orange ylw sndy dol
at end of cut
1
1300 ESN 161 WP 428 N37°13.615 W80°12'464
2 1400 Photo of detachment folds
above crenulated
3 1500 bed N70E 6' thk dol
45 SE
4 1600 clean N50E 14 NE orange brown argill
dolomites
5 1700 30' cliff
ESN162 WP 429 N 37°13.729'
6 1800 N 80°12.527'
Breccia
rd tan arg
Yellow brn dol
Mass dol
7 1900
8 2000 succession of mass to thk bedded gy
dol o/l. by folded rd + gr argillite
s.l. by yel. orang. weath punky

TO BE DONE TODAY (ACTION LIST)

dol Photos of Folds
dd befs at base N50E 25SE
N50E 15NE
flat assymetric breccia
probably MM thrust contact. Photo
of breccia ~6' thick to above
elbrook dolomite bdk
ESN 163 interval of ltgry-grn ch'
ser. phyllite (Elbrook Poty dol) in
river bottom photo of breccia
cutting weath/slivery dol WP 430
N 37 13.790 W 80 12.57 N70E

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1/14/09 DATE DAY

DIARY AND WORK RECORD

boudinage N75E & NE (photo)
Photo of crenulation Fold in grn phyllitic F block
N80E 6°NE
AP E-W 68 SE

ESN 164 shly (phyl) dol in stream bed across from treatment plant
N75E 60SE WP

ESN 165 current scoured bed rock ledges along W bank a 1-2' water behind truck park
N 70E 66 SE air strike
WP 431 N 37° 13.932 W 80

ESN 131 Massive chrty ls or dol
N80E 20 SE in cut on RR
at WP 432 GPS Batterys dead
N37 14 368 W 80 13 189

ESN 132 Black argillite and siltsn old riverbank and in channel below VDOT
dam N 70E 62 SE cleavage
offset by several faults
N 30E 40SE
WP 433 N 37° 14 .436 W 80° 13.060

ESN 133 Massive bedded dk gry dol in 50' cliff on old river channel below VDOT Dam
N45E 50 SE bed WP 434
N 37 14 .370 W 80 12 247
shly dol in cut above 5 bdins
Mg a boudinage 2 photos
Boulding trending N75E plunging
11 SW cleavage N05E 85 SE
extended beds N80E 22SE
ESN 134 lady N65E 38 SE
ocs of MM breccia at top of cliff
by bill board WP 435 N37 14 .384 W 80 12 791 el 1263

1/14/09 DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN135 ledge of shaly dol and breccia w/carbonate as well as chert clasts N 60E 20SE local

9 0900 ESN 136 N 37° 14 493 W 80° 12.711'

10 1000 N 30E 60SE dk shly ls breccia marhead of hollow

11 1100 ESN 137 N 60E 20 NW dk gray limestone thick bedded

12 1200 (Ort ?) wp 437 N 37 14 517

1 1300 ej 1328 W 80 12.769

2 1400 ESN 138 Massive breccia / dol outcrop on nose below bk ls

3 1500 and sh on interstate RW Flow Foliation in breccia N 70E 16 SE

4 1600 1/15/09 Elliston Quad

5 1700 ESN 1510 private crossing

6 1800 N 60E 60SE N 37 14 165 W 80 13 781 Massive dol, gray e/1255

7 1900 ESN 121 lower td is ~ 75' wide. 30' rock face then upper

8 2000 wp 439 N 37 14 297 W 80 13.75 dk gry to black sandstone and siltstone medium - thick bedded N 70E 47 SE blocky jointed N 20W vert NE dip

TO BE DONE TODAY (ACTION LIST)

ESN122 20' cliff med thin bedded black to dk gr argillite and ls? strong cleavage wp#440 N 37 14 276 W 80 13 650 flood plain ends at this cliff on N side, at end of cliff to contact to blk beds N 70E 55SE clean EW 355

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1/15/09 DATE DAY

DIARY AND WORK RECORD

spaced N70E 70SE
S shaped cleavage planes
weathered
back thrust

ESN123 arc strike across river in cat channel below island 280 16 SW dip [illegible] WP441 N 37°14.2[illegible] W 80 13 42[illegible]

ESN152 low ledges of dk gray argillite w/ strong slaty cleavage and pencil cleavage thinly laminated fine grained ss ledges w/ cleavage N 30E 42 SE WP

spring above house in ruins next to dirt rd WP 442 el 1234 N37°14 [illegible] W80 13.[illegible]

dianne@bfs mill.com

ESN166 el 1268 WP 443 N 37 13 .724
oc of thin bedded W 80 12 .774
argillite weathers orange brn

ESN167 el 1309 WP 444 N 37 13 746
yellow weathg arg. W 80 12 976
duplonite ledge in stream bed
gully N75E 25 SE thin bedded

ESN168 WP 445 N 37° 13.763
W 80° 13.143' el 1426 14006
lim sst ledge 1.5 N70E 78SE
beddings | heavy orange clay soil residual

ESN169 WP 446 N37° 13.587 W80° 12.954
orange yellow clay sh. chips in
brown residual soil el 1458

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE

14606

DAY 4/15/09 DATE

ESN1610 APPOINTMENTS & SCHEDULED EVENTS

Med - thick bedded fg (micritic) gray dolomite ledges in drainage at el 1450 ft

0800

possible mudcracks on bed tops N60E 65 SE asy @ WP 447

0900

el 1454 N37° 13.807 W 80° 13.200

1000

ESN1611 N75E 55 SW plunging

1100

gnticlial hinge in dol, gry frac thk bded NW Limb N55E 20 NW SE Limb N75E 45 SE

1200

WP 1544 448 14156

1300

N 3713 839 breccia layers

1400

W 8013.222 in between upright ledges

1500

ESN1612 @ cedar Mills Turning sta ledge dol gry N85E 65 SE

1600

WP 449 N37 13.795 80° 13.150

1700

el 1680 Noted at least one coarse chithowee cobble on flat topped ridge

1800

1900

ESN 1613 ledge near tear blue N70E 45 SE fract clay

2000

WP 450 N37 14 048 W 80 13.325 dark gray xline dolomite N60E 50 SE second ledge

TO BE DONE TODAY (ACTION LIST)

ESN 16

WP 451 N37° 13.971 W 80° 13.962'

el 1820 ft 306 ft Gray frac dol bedding w med tan layers w crinoidal white veins

ESN 1625 Spring house w/ timber frame / cut nail roof - dry wp 452 37 13 779 W 80 12.784

built w dk tan dol blocks

name glsn

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Tues 20 Jan '09

DATE DAY

DIARY AND WORK RECORD

ESN 1615
Yellow weathered laminated argillite bedding cleavage 290 23 NE
WP 453 N 37 13.375 W 80° 13.054
Thin bedded platy dolomite on bnk by gate.

ESN 1616 dol, dk gy to black med to thk bedded, fractured beds N 75 E 75 NW on slope qtzite bldrs on Flatabove at WP 454 N 37 13 409 W 80 13.098 el 1390

ESN 1617 qtzite boulders above orange clay soil w shly chips along ridgeline to WP 455 N37 13.559 W80 13.250 el 1439

ESN 1618 ledges of thk bedded to massive gray dolomite N 70 E 55 SE in drainage at WP 456
some breccia Float as well
N37 13.633 80 13 239 el 1623

ESN 151 N65 40 SE WP 457
N 37° 13.651 W 80° 13.379 el 1450

ESN 152 E-W 40 S dk gray dolomite ledge, F-g dolo micrite argillaceous Fine popcorn cht
WP 458 N 37 13.909 W 80° 13.430' el 934

ESN 153 Karst Features - el 1375
slope SINK at WP 459
N 37° 13.304 W 80° 13.496'
3 sinks in row, middle one 20' deep 100' dia

DAY 1/20/09 CT DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 154 low ledge of gray dol
rich bedding N70E 40SE
WP 460 N 37 13.051 W 80° 13.798
9 0900 el 1408 sink hole down dip
10 1000 ESN 155 Limonite prospect trench 15 pt
dk br reticulate texture el 1609
11 1100 WP 461 N 37 13 343 W 80 13.678
12 1200 ESN 1610 yellow weath
argillaceous chips on el 1415
1 1300 ledge top at WP 462
N 37 13.147 W 80 13 131
2 1400 1/21/08
ESN 161
3 1500 WP 463 el 1284
N 37° 13.605' W 80° 14.731'
4 1600 Fl brook - med lt gy tan
weathered dol med - thin
5 1700 bedded, shly soil
EW 155
6 1800 ESN 162 N 37° 13 596 W 80 14 720
7 1900 WP 464 Hydrothermal breccia zone
w/ 1403 dolomite w/ mineralized
8 2000 mtx Flow Foliation
N 60W 30SW
ESN 163 nr el 1400 tops near

TO BE DONE TODAY (ACTION LIST)

horizontal dol ledge over
100' of green and red shale
along old track on strike down
ESN 164 N70E 45 SE Foliated
talc rusty dol interbed in shaly
argillite top @ WP 465
el 1421 N 37 13 447
W 80 14 736
photo of shly argillite & blg

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1/21/09 DATE DAY

DIARY AND WORK RECORD

ESN145 Ledge of thin slaty dol
In maroon and grn slaty arg
alg unit - N 75E 15 SE bdg
Cross joints ~ spaced clean
N 20E 60 NW WP 466 N 37° 13.454 W 80° 14.7
el 1525 WP 466

ESN146 WP467 Grn and Rd brn slaty
argillite on Knob N55E 48SE
el 1707 N 37° 13.422 W 80° 14.650
N55E 48SE bedding plane clean

ESN147 WP468 Massive on the ends
of Frac + cleaved gray
dol N30E 35SE clean? on ledge
a lot of hydrothermal chert
on Flat N40°E 12 bedding
N 37° 13.413 W 80 14 574 el 1819
Green and black slate

ESN148 WP469 on State Land
top at WP el 1912 N20E 75SE clean
N 37° 18.406' W 80° 19.486'

ESN149 WP470 on State land Entry
N 37° 13.436 W 80° 14.392 el 1977
1:00 topo, shale Float dk gn
Crwb Karst terrain below
N contact w/ Cel N45E 50SE

ESN1410 145E 50SE clean to
dk gy slaty dol on rim N 30E 85SE
OE Sink photo WP471
N 37 13 450 W 80 14 345 Karst

ESN1411 spur ridge supported
by vuggy dolomite LS (light
blue gray w chert and
shaly interbeds N20E 45SE

1/21/09 Cold (20s)
DAY

DATE 1/21/09

ESN 411 APPOINTMENTS & SCHEDULED EVENTS

8 0800 breccia otd photos of ledge / Big Spring Mills and RR business WP 472 N 37 13 [illegible] W 80 14.055'

9 0900 Thick bedded siltstone blk dol above N45E 35SE

10 1000 ESN156

11 1100 Fairfield (Eal) dol w/ fine fold hinge SE limb N65E 50SE

12 1200 NW limb N60E 80NW

1 1300 hinge asymmetry rotated back to SE measured plunge E-W at 6° E

2 1400

3 1500 ESG157 Massive dol forms 2nd pinacle N70E 55SE platy argillite or argillaceous dol laminals above and below

4 1600

5 1700 Bioclastic ages on white barrens low pinacles WP 473

6 1800 N37°13.466' W80°13.639' el1171

7 1900 ESN158 WP 474 N37 13 472 W 80° 13.947 el1661 70E 28SE cherty dol

8 2000 breccia OC along trail Photos in

TO BE DONE TODAY (ACTION LIST)

ESN159 on trail thru med bedded gray fine dol ledge N40W 36SW at WP 475 el1173 N 37° 13.532' W 80° 14.045' with back on trail at sinkhole 100' dia breach ①

ESN 1412 cave entrance filled with debris below massive dol ledge N25E 62SE WP 476 el 1660 N37° 13.595' W 80° 14.162

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1/21/09 DATE DAY

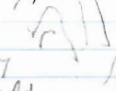
DIARY AND WORK RECORD

ESN 1413 Ledge of pink recline dolomite - N20E 30SE m a ss
Mark Fe like Ledges WP477
N 37°13.652' W 80° 14.232'
el 1640 6

ESN 1414 thin bedded platy dol ledge next to drainage
N65E 45 SE

ESN 1415 Fract massive grey dol N20E vertical at WP 478
N 37 13 692 W 80 14.487
el 1353 N 10 E 25 NW 150' to SW
Photo of Pulaski slide area
1/22/09 Elliston Quad
at Interchange on I81 Parking area
ESN 1416 WP 479 El 1352
N 37°13.692' W 80° 14.46'
Parking area is on recontoured land of Fill From I 81 cuts
Photos of Hanging wall on Pulaski Thrust to SE.

ESN181 Lam-ribbon banded dol over massive dol N55E 48 WP 480
EL 1227 N 37 13.259 W 80 13.661
Town well on corner by river

ESN182 Laminated - mass dol with hydrothermal breccia masses Anticline beneath bridge plunges N50E 20 NE
Photo of Fold and block of breccia


WP 481 N37 13 248
ESN183 W 80 13 577
N 05 E 46 SE bedding
anticline/syncline hinge N 05 E 10° NE

1/22/08

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 184 WP 482 el 1396
N 37 13 181 W80 13 518
9 0900 Yellow weathered slaty argillite
in root bal of 24" pine
10 1000 tree overturned on roadside
ENE - ERC
11 1100 ESN 185 thin terrace deposit above
N57E 50SE cleavage in yellow
12 1200 weathered argillite on cliff above
Roanoke River at WP 483
1 1300 N 37° 13.209 W 80° 13.489
2 1400 ESN 186 Folds in argillaceous
tot and slaty argillite
3 1500 plunging S 70 W at 14
4 1600 Folds are
early detachment
5 1700 whose axial planes
dip N50E 65 NW
WP 484
6 1800 N 37 13.212 W 80° 13.375
dip between 6 and bridge is
7 1900 shallower in steep cliff
dolomite beds N55E 30SE
8 2000 ESN 171 air strike from across
river N 20E 80SE dolomite

TO BE DONE TODAY (ACTION LIST)

ledges descending hillside possible
hinge above

ESN

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1/22/09 DATE — Clear, Cold — Thur DAY

ESN 187 DIARY AND WORK RECORD WP 485

N 30 E 48 SE ledge on bluff along
creek N 37 13.121 W 80° 14.074
Thick bedded platy dol
w. dextral Folds on
Sims property. Mill Run by Long
family

ESN 411 on ridge in Field
sink hole in gently dipping
dolomite at WP 486 N37 12.355
W 80° 14.827 el 1858 1840
N70 W 9 SW ledge in driveway

ESN 412 just below gas line
along dirt extension of Echo Hills
light gray - tan weat. laminate
overlying massive algal dol
N 30 E 30 SE WP 487 El 1912
N 37° 12.468 W 80° 14.887 many
shale chips on pipeline

ESN 413 1680 el 1736 Ledge N80W 20 SW
WP 488 N 37° 12.503 W 80° 14.657
dk gray fractured dol. in red
shaly soil

ESN 416 N30 E 65 SE ledge N20E 30SE
Gray fractured dol. N 37 12.509
ledge at WP 490 el 1060 el 1540 W 80 14.649
ESN 417 N20E 29 SE Gray Frac
dol ledge on dip slope
WP 489 el 1710 (1500 6)
N 37° 12.450 W 80° 14.453'

ESN 172 Gas strike on quarry face
or slide scar up hill from 2
double wides in pasture photo
of Fan next to high school

Birth
DAY Friday 23 Jan 2009 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 173 in hollow above Log House Plant Stuck 2.5 hrs
9 0900 in hole - built Corderoy road by jacking all 4 wh
10 1000 WP 491 el 1439 N 37° 12.940 red brown soil W 80 14.775
11 1100 steep topo dol ledges 1560 b spring at bifurcation 1580 b
12 1200 ESN 174 WP 492 el 1631
1 1300 N 37 12.951 W 80° 14.884 red and green argillite and
2 1400 thin dolomitic ss N 5 52W
3 1500 ESN 175 1750 Knob el 1703 gps red and grn slaty arg
4 1600 chips dol ledge holds up ridge N 20E 30SE WP 493
5 1700 N 37° 12.958 W 80° 14.912 bearing N 15E up 1-2° to new house
6 1800 IRO 391 el 1817 WP 494 Roma beddings
7 1900 arg silt w slaty cleavage N45W 35 NE N 37° 12.921' W 80° 15.016
8 2000 Pencil Lineation N 50 E 40 NE

TO BE DONE TODAY (ACTION LIST)

ESN 176 1830 Knob dol w/ small sink in saddle red grn arg N 35 E 25 SE WP 495 el 1895 N 37° 13.093' W 80° 14.818'

ESN 177 100' dia 20' deep sinkhole with cave beneath dusk. fol [illegible] Mass - lam N 35 E 20 SE WP 495 N 37° 13.054 W 80° 14.706 el 1641 17 10 b

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23 Jan 09 DATE DAY

DIARY AND WORK RECORD

ESN 178 Gray thk-med bedded
buteher block weathering
Cherty elbrook dol N 60E 56SE
at WP 496 N 37° 13.005 el 1892
W 80° 14.569 17206

ESN 179 Sink hole 5' deep
75' dia at WP 497
N 37° 12.980 W 80° 14.347
el 1743 17606

ESN 1710 Yellow orange weath
gray dol N 75E 92° NW
0 on S. slope at WP 498 el 1771
N 37° 12.945 W 80° 14.331

ESN 1711 WP 499 N80E 4E
el 1702 Platy thn bed dol
overlying mass blue gry
algl mottled dol 15'
N 37° 12.911 W 80° 14.547
16006

ESN 1712 WP 500 N20E 30SE
chert pebble breccia ~ 20'
thick overlies thk bedded
gray dol in ravine 15506
WP 0011 N 37 12 952 W 80 14 65
el 1621

29 January 2009
ESN 1713 on drive up to
FCC licensed towers
WP 002 N 37 13 132 W 80° 14.364 el 1557
dusky red slaty cleaved argl ls
bedding 50 11 SE N75E 75 SE
transposed 91 Face
ESN 1714 N 20E 4 NW
WP 03 N 37 13.181 W 80 14.374 1806 el

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE

DAY Jan 29 09 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 1.715 between Towers
WP 004 phyllitic sheen fg
green to gray siliceous slaty
9 0900 dry lite N 60E 10SE
bedding plane Cleavage
10 1000 Spaced clear 280 63° NE of 280
WP 024 @ 37 13 233 W 80 14 834
11 1100 ESN 1.716 Maroon - dusky rd
12 1200 slaty argillite outcropping
Pedlar Rock at WP 025
1 1300 bedding planes N35E 25SE joints
cleavage N35E 65SE slicks 10W
2 1400 N 20W 5° SW 123 80 5W 1551
N 37 13 234 W 80° 14.509' 1780ft
3 1500 ESN 1717 30' dol section
4 1600 dk gy-blk Frac w/ white
calcite veins N 50E 23 SE @ 1620
5 1700 WP 007 N 37 13 022 W 80 14 968
6 1800 ESN 1418 Thin bedded
dol N 40E 43SE
7 1900 Gray lgt SE Pedlar Rd dike
@ 1695 WP 008
8 2000 N 37° 13.713 W 80° 14.950'
ESN 212 WP 009 N 37°14.211' W80°13.020
@ 1200

TO BE DONE TODAY (ACTION LIST)

old cemetary at end of field along
cross fence line.

ESN 213 WP 010 N 37° 14.266 W80° 13.099'
Thin - Med bedded gray dol N55E
45NW (uphill) at Power line 1270ft

ESN 214 Cherty gray dol strike N 75E 40NW
on knob at 1149ft wp 011
N 37° 14 416 W 80° 12.133'

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DATE DAY

DIARY AND WORK RECORD

Making Layers For Polygons

copy into new layer
select all

Select hold option drag
into new la

go to pathFinder
pathFinder
divide

ESN215 (Jan 29 '09) N80E 70SE
heavily weathered ledge w/dol
and yellow argillite layers
near property boundary WP012
N 37 14 4991 W 80 12.195 1437
5006

ESN216 Sinkhole w/breccia ledge
on SE side 100' dia 30' deep
filled at bottom ledge N50E 45SE
possible for initial cell
WP013 N 37 14 544 W 80 12 154 el 1529
1490 6
ESN 217 karst - sink 63' by 12' deep
below house shale soil 5' deep
WP014 N 37 14.615 W 80 12.206

ESN218 E-W 60N thin bedded
dol after blue ls ledge, much
breccia float on powerline
WP15 N37 14 987 W 80 12 345

ESN219 N70E 50SE Massive ledges
of brecciated cherty dol. Layering
may be tectonic el 1520 ± WP 016
N 37 14 469 W 80 12 276
Ledge N60E 18°SE - bedd

ESN220 elongate ledge of white
quartz arenite beds N 60E 35SE
lens trends cross ridge N S
possible karst on W side WP017 N 37°14.811 el 1534
W 80° 12.310 1500 6

DAY 1/29/09 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 211 Ridge underlain by brn – tan weathered clay shale w/ possible ls in drainage (karst)
9 0900 WP 018 N37° 14.813 W80° 12.380 el 1567 Possible Omb – ORD
10 1000 COUNTY LINE WRONG!
11 1100 FSN 212 second pod of qtz SS on ridge above I 81 then brown shale then sever blocks
12 1200 of coarse calcarenite or rexilite is with strong pet coder
1 1300 WP 19 el 1429 N37° 14.296 W80 12.095 Possible trend E-W 585
2 1400 ESN 213 Max meadows type breccia float near property line corner
3 1500 WP 020 N37 14 873 W80 W.789 el 1599 (1560)
4 1600 ESN 2114 hollow prospected for limonite (spl) 3-6 pits in woods
5 1700 WP 021 N37 14.811 W80° 12.002 el 1502 deep red clay soil w/ limonite nodules – hydrothermal zone clay filling
6 1800
7 1900 ESN 215 breccia exposed at head of prospect trench N65E 29°
8 2000 WP 022 N37° 14.752 W80° 12.079 1614

ESN 216 Coarse SS blocks (Ech)

ESN 217

TO BE DONE TODAY (ACTION LIST)

power line Dol ledge N60E 60SE Photo of silted pond area above of clam ESN 211
WP 023 136 N37 14.516 W80 12.189

ESN 2118 N70E 83 yellow clay shale soil in bank beneath chilhowee Tcl at WP 024 N37°14.258 W80°11.893

ESN 219 Dolsh intraclasts in borrow pit on road N70E 45SE
N37° 14.25 W80° 11.87 el 1253

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Jan 30 2008 DATE DAY

DIARY AND WORK RECORD

ESN 227 redo – N50E 32 SE
tan weath dol breccia ledge
on power line WP 026
N 37 14.945 W 80° 11.024 el 1355

ESN 2211 Photo of drain that
has eroded and collapsed
at WP 027 N 37 14.387 W80° 11.201

ESN 2212 Thick bedded to med
bedded gray and dark gray
dol N to E 12 SE bedding
@ NO SIGNAL – 75 yds W From WP027

ESN 2213 N60W 13NE thk
jointed dol ledge on creek
bank WP 028 N 37°14.958' W 80° 11.428'

ESN 2214 Ledge of gray mealy
tetured nodular bedding limest,
N60W 65SW at WP
Cut fence deer blind drop
Feeder – Dr. Steven Durado
WP 029 N 37° 14.954 W80 11.526'

ESN 2120 Followed Turkeys ~ 20
up hill to old subdivision
road ledge of dol in road
N60E 65SE @ WP 030
N 37 14 870 W 80 11 797 el 1578

ESN 2121 Saddle or valley of
Palaski Fault yellow brn weath gray
shale on roadbed below

ESN 2122 15 ledge OCS on
NBL – sink above WP 031
N 37 14 968 W 80 11 866'

DAY 1/30/09 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 FSN 21 23 dol ls ledges on high anc SBL 130,9 WP

9 0900 N ~280 255W

10 1000 GVR 881 Photo of highwall at old Salem Stone Co. Quarry

11 1100 showing Folded contact

12 1200 N60E 33 SE Contact between

1 1300 shly dol and gray slaty

2 1400 argillite GVR871 borrow pit in shl

3 1500 dol and slaty gra) argillite N65E 40 NW

4 1600 apparent

5 1700 Photo WP 032 N37°15.215 W80°11.743

6 1800 GVR 771 dol ledges along ravine a

7 1900 below Road N 55 E/20 SE strik alluvial fan on nose above

8 2000 road. Fracture dol on road at WP 034 N 37 15.081 W 80 12.000 GVR 330 80 NE w/ breccia layer Bank above (w or Pond) is shale sap

TO BE DONE TODAY (ACTION LIST) fault

along drain below pond

GVR Elbrook thin-med bed dol N80E 10 NE Syn hinge of NW EW 65 SE beds at road

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2/09/09 DATE

Clear warm DAY

DIARY AND WORK RECORD

ESN 1513 Olivish thin bedded argillic (ort?) N70E 55SE rd cut at rr grade level E of I81 NBL Milboro/Bryllier contact may be exposed on N side of river (photos of thick siltsn layers above slaty black argillite beds Milboro N30E 20SE axis/strike across river at WP 035 (ESI514 N 37° 14.123 W 80° 14.100' ESN 1515 photos of cut for river relocation bedding in thin to thick bedded argillite and sltsn N60E 25SW WP 036 N 37 14 131 W 80 14.193 el 1235

ESN 1516 N40W 18NE Thk bedded slt/ss/arg seq (06) on River Bluff WP 037 N 37° 14.[illegible]' W 80° 14.33[illegible]'

ESN 111 gray argillite and thick slt & fine ss N80E 5SE in deep cut at 1300ft WP 038 N 37° 14.239, W 80° 14.289' ESN 112 Borrow Pit N 37 14 246 80 14 214

N30E 22SW olive gn slt sn 60W SH

ESN 112 Borrow Pit 1345el N60W 22SW

ESN 124 by Mr Radfords House Photos of Faults and Fracs in at WP 040 N37° 14.569 W 80° 14.155 50 320 20NE el 1593 (16006)

Normal fault N15E 80E N20E 68NW

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE

DAY 21 09/09 DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 113 Bedding plane clearage
8 N10W 18NE WP 041 el 1718
0800 lt gry - tan argillite soprolit
9 w/ orange + blk stains above
0900 old power line cut
10
1000 ESN 114 Bedding plane cleav
11 in road bed on curve above
1100 Power line N45E 10SE lt olive
12 brn grey micaceous argillite
1200 w/ blk and red stains Massive
1 to laminated at WP 042
1300 N 37° 14.947' 80° 14.317' el 1885 (18206)
2
1400 GLV 771 el 2100 b WP 043 el 2001
3 N 37 15.067 W 80° 14.995
1500 olive brn arenite sap N 15W 12NE
4 2100' wide landslide deposit
1600 in turn below
5
1700 GLV 772 el 1915 WP 044 N 37° 15.038 W 80° 14.661
6 e 2200 b olive gn - brn micaceous argillite
1800 N 15W 10NE
7
1900 GLV 773 el 2183 WP 045 N 37° 15.071' W 80° 14.713'
8 N10W 15 NE Medium bedded
2000 lt brn qtz ss very fine
grained at driveway to lot above
WP 045 TO BE DONE TODAY (ACTION LIST) el
GLV 774 N S 10 E thk bed
rusty brn weath ss beds
on road at el 2330 6
el 2184 at WP 046 N 37° 15.099' W 80 14.719'
Photo

GLV 775 ss fg lt olive grn, weathers
white flaky lava tower at
WP 047 el 2010 N 37 15 019 W 80° 14 933
Beach storm bed beneath ss!
Photo of tower

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2/09/09 DATE DAY

DIARY AND WORK RECORD

ESN115 6 below line N60E
10 SE on ledge of rusty brn ss
or mica rich SW f. in upper Brallier
WP 048 N 37 14.987 W 80 14.838

ESN116 ~50' above flat ridge
N50E 15 SE thick bed of
rust brn weath fg SS
WP 049 N 37°14.957' W 80° 14.864

ESN117 argillite } yellow brn
weathered chips on nose at WP 050
el 1178 N 37° 14.865 W 80 14 892

ESN118 argillite, yellow brn
weathered chips in mdy
pine trees down in saddle.
WP 051 el 1685 N 37 14.256 W 80 14.757

ESN119 argillite y/w brn weath
chips on tower feet along
abandoned power line at el. 1523
WP 052 N 37°14.605' W 80°14.645

ESN110 gray argillite w/vert
slaty cleav N80E 10 in
trail (dus up) WP 053
N 37° 14.352 W 80° 14.621 el 1517

ESN111 gray argillite w/slaty
cleavage // bedding?
N70E 45 SE in stream at
WP 054 N 37° 14.327, W 80° 14.612
el 1167

ESN112 gray argillite w slaty cleav
beds in bottom of stream
N80W 45 SW at WP 055
N 37° 14.248 W 80° 14.554
Bower Farm ~10' higher = Id N20W bdng
joints

DAY 2/10/09 DATE clear warm cloudy

APPOINTMENTS & SCHEDULED EVENTS

GLV 781 Peak of FT Lewis
8 SW of Smith Gap
0800 Float of brn weathed
9 mica gtze ss w/ abdt Crinoid
0900 and brachiopod debris.
10 WP 056 e1 2765 T 2751
1000 N 37° 15.367 W 80° 13.865
11
1100 GLV 782 ledge of lt brn wea
12 ss N45E 10SE at WP 057 on rd
1200 road Joints @ 305 75 NE
1 080 80 NW
1300
2 GLV 761 WP 058 e12799 (2860 b)
1400 N37 15 876 W 80 13.048
3 thin bedded Sandstone/weath
1500 argillite very lt tan to olive gray
4 N48E 33 SE
1600
5 GLV 762 ledge of wht Cgl
1700 N45E 10 esft thin bedd ss
6 below ~100 yds SW N80E 15SE
1800 16.0 From home WP 059
7 N. 37 15.525 W 80 12.938
1900
8 GLV 773 red brn weath
2000 arg. lite. over brn ss.
N30E E SE Photo of Fossil

TO BE DONE TODAY (ACTION LIST)

ledges at WP 060 E12412
N 37° 15.128 W 80° 14.303

ESN 2124 borrow pit in
Shale, overlain by massive
quartz arenite along interstate
el 1810 WP 061
N 37 14.995 Cleavage N70E
W 80 12.232 40 SE
Nearly 100' of Ort exposed
in slice ~ 1' silts N beds, orange ss
sp of F ss - carb layers? Dm?

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2/10/09
DATE DAY

DIARY AND WORK RECORD

ESN 2125 tan shale to green gry
w/ bcds N 60 E 30-40 NW
roll over in creek (photo) @
WP 062 cl 1589
N 37 14 960 W 80 12 . 319
looks like trenton Reedsville

ESN 2126 green gray - tan shale
With thin beds N 60 E 20 NW
dipping beneath SS above

ESN 2127 at low water bridge
dark gray argillite w/
4" pakages of slts m 2"
cross bedded qtz SS photo
Could be Huntersville Chert or
Brallier N 60 E - 89 NW RSU
WP 063 N 37 14 . 920 W 80 12 . 490

ESN 2128 75 yds ds is a edge
of dk gry sheared argillite w/ Fe
ls boudins ? Ort ? N 60 E 75 NW
clean ? WP 064 N37°14.876 W80°12.412
cl 1438

ESN 2129 WP 065 N 37°14.847 W 80°12.501
50 yds ds is a slate/sltsn
pavement N 70 E 65 SE 0.6 meta graywacke

ESN 1310 N 75 E 80 SE brn
weathered gray argillite w
slaty cleavage transposed thin
sltst or fine ss beds N 75 E 80 SE
overturned limb from fold
symmetry below

N 60 E 65 NW on road at creek crossing
ESN 1311 WP 065 cl 1535
N 37° 14 . 932 W 80 12 837 dl646 6
sandstone ledge on point, Fine gr
greenish gray graywacke w/ barrows

PORTABLE UNDATED TWO PAGE PER DAY REFERENCE

TUES DAY 2/10/09 DATE Partly Cloudy Warm ~60

APPOINTMENTS & SCHEDULED EVENTS

GLV791

8 0800 Thin beds of Fine SS ac on road N46E 15 SE el 1690

9 0900 N37 15.082 W 80 12.948

10 1000 GLV792 shale bench on top Fossiliferous SS float on

11 1100 slope below. Triagular brach molds and long thin

12 1200 WP 067, N 37° 15.152' W 80 12.981' el 1829

1 1300

2 1400 Fossil impressions

3 1500 GLV793 Pea sized pebble cgl float on road WP068 1736

4 1600 N 37 15 135 W 80 12 886 GLV794 Fossiferous Punky SS on knob

5 1700 WP 069 el 1677 N37°15.067 W80° 12.659'

6 1800 ESN 1312 pea gravel Cgl zite or Vein qtz derived float on nose WP 070

7 1900 N 37° 14.928 W 80° 12.597 el 1588

8 2000 ESN 1313 embankment exposure Db thin bedded argillite w/ 6" siltsn beds N45E 2d NW

TO BE DONE TODAY (ACTION LIST)

WP 071 el 1538 N37°14.925, W 80° 12.506

2/11/09 Partly Cloudy, warm ~60s

ESN 1314 embankment exposure on access road highly deformed argillite w/ slaty cleavage, (OT) thin s/t and fine ss beds N 60E 47° SE transposed beds, spaced cleavage N 70 E slaty cleavage EW 20 S WP 072 el 1475 N 37° 14.776' W 80° 12.718

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2/12/09

ESN 1212 el 1840 b WP 089
N 37° 14.935W 80° 13.505 cobble
bleached white ss float on
break in slope el 2099?
N 37° 14.935 W 80° 13.505

ESN 1213 el 1969 WP 090 N 37°14.897' W 80° 13.360'
thin bedded bleached white ss
In arg. lite sap N30W 5-10NE
at Fork in road. N45E 6NW ledge
on road 10' below

ESN 1318 WP 091 EL1860 N37°14.98 W80°13.325
ss ledge bearing across hollow
to NE N70E 12SE air strike
1700b

ESN B22 soil changes near old power
line ROW from fine ss, white back
slsh to yellow and orange weathered
argillite chips WP 092 el 1723
N 37° 14.881 W 80° 13.011

ESN 1323 silty soil w/white el 1677
weathered quartz siltstone
blocks in soil 06? WP 093 N 37°14
W 80°

2/12/09

ESN 1324 beds of white to tan weathered fg qtz SS standing on end N68E 75E on cliff above W immage house WP 094 el 1500 N37°14.784 W80°13.109

ESN 1214 N75E 10-15 SE Yellow weath argillite sap same as exposed all the way back to 1213.

ESN 1215 N70E 7 SE argillite sap w thin silicic silt layers along powerline access road at WP 095 el 1564 N37°14.803 W80°13.461

ESN 1216 WP

grn grey weath argillite w thin sltstn N8SE 25NW at drain WP 096 El. 1428 N37 14 481 W8013633

2/13/09 DATE Fri DAY

DIARY AND WORK RECORD

ESN 1420 dark grn gry - olive argillite w/ slaty clevarage 030 35 NE'

ESN 1421 dk grn/olive argillite w/ slaty clevr folded Fdl hinge planes N60W 22 NW
N37° 13.872 W 80° 14.336
Photo wp 097 el 1130 deleted.

ESN 1422 sols of slaty clevr black argillite from 181 099 el 1312
N 37° 13.836 W 80° 14.398

ESN 1423 WP 098 N37° 13.788', contact Dm/fel WP 0° 14.452 breccia slaty clevr N20E 33SE gpl

ESN 1424 WP
black argillite w slaty clevr cross cutting spaced clevr and moderately NE dipping joints S1 N 86E 30SE
S2 E W S 45°
Joints N 10E 65SE
WP 100 N37° 13.829 W 80° 14.446
el 1225 (Db) 2-4" Siltsn beds

ESN 1425 WP 101 el 1237
N 37 13 795 W 80 14 502
dk grey/black argillite N80E 30 SE slaty clevarage in stream

ESN 1426 crenulated black argillite (Dm?) at WP 102
N 37° 13.732 W 80° 14.609 el 1311
S1 N70E 31 SE S2 N60E 19SE (Photo)

2/13/08

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 1427, highly contorted, polished and carbonized ferritic argillite w intersecting c/s

9 0900 fabric E W 37 SE main fol buttons 330F 32°SE. WP103

10 1000 N37 13 669 W 80 14 741

11 1100 ESN 1428, gray fractured argillaceous Ms w/ many

12 1200 fossil fragments on slope

1 1300 within 300 yds of scarp ~ 50' below al brook in stack (Ort) WP104 el 1312

2 1400 N 37 13 645 W 80 14 626 oc ~ 100' sw 330 35 sw

3 1500 Picture

4 1600 ESN 1429 olive grit argillite w/ contorted limestone el 848

5 1700 clasts at WP 105 N 37 13 625 W80 14 955

6 1800 310 25 NE contorted bedding sky clear 060 60SE

7 1900 ESN 1430 Ridge line is yellow

8 2000 weath argillite chips oc in road bnk NS 20E laminated silicic siltstone at WP

TO BE DONE TODAY (ACTION LIST)

N37°13.818 W80 14.682 el 1547

ESN 1431

N80E 70SE gray argillite, el 1272 WP106 N37°13 941 W80 14.454

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Clear, Cool

2/17/09 DATE Tuesday DAY

DIARY AND WORK RECORD

ESN 2314 **N 60W 70 SW** Massive and yellow weathered argillite w/slaty cleavage, moderate bedding & Conoco bearing [illegible] WP 107 N 37° 14.337 W 80° 10.374' el 2[illegible]

ESN 2315 **N 30 W 40 NE** Massive bedded gray dolomite ledge coarsely crystalline sparce white carbonate veins WP 108 el [illegible] W 222 W[illegible]

ESN 261 **N 20 W 50 SW** 2' mottled dk gray dol bed, interbedded with [illegible] yellow argillite

ESN 262 **EW : 65 N** dk gray argillite w/ bpc WP 109 N 37° 14.044' W [illegible] Note Rock Fall over Gldrs

ESN 263 **N 60 W 60 NE** dk gray argillite WP 110 N [illegible] 3.993 W 80 10.798

ESN 264 Mussar Cem. WP 111 N 37 14 028 W 80 10 633 Next to Pump station

ESN 265 **N 80 E 65 SE** thin bedded argillite and slate red grn. yellow some dol. WP 112 el 1269 N 37° 13.937 W 80° 10.632

ESN 266 N 80 E 8 NW red + grn arg some dol. WP 113 el 1468 N 37° 13.906 W 80° 10.664' consider in fold of Cel

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 267 aft dam el
8 laminated rd & grn argillite
0800 280 64 NW WP 114 el 1435 N37° 13.871
9 W 85° 10.548
0900
10 ESN 268 above left abutment
1000 10' thin bedded gray dol
11 280 64 NE WP 115 N 37 13.861
1100 W 85 10 572 el 1463
12
1200 ESN 269 100' from dam N 80 E 40 SE
1 brown weathd laminate argillite
1300 at WP 116 N 37 13.914 W 85° 10.638
2 el 1437
1400
3 ESN 2610 orange weathd argillite
1500 N 275° 40 NE at WP 117
4 N 37 13.743 W 85 10.633 el 1420
1600
5 ESN 26 gray thin lam massive
1700 bedded dolomite 280 76 NE el 1437
6 WP N 37 13 662 W 80 10 635
1800
7 ESN 2612 grn and rd argillite
1900 EW 60 N
8 WP 118 N 37 13 581 W 80 10 588
2000
ESN 2613 rd and yellow argillite

TO BE DONE TODAY (ACTION LIST)

w/ bedding plane clear. N 58 E
355 E @ WP 119 N 37 13.551
W 85 10 726 el 1407

ESN 2614 75-100' carb section
280 50 NW sighted across res.
from WP 120 N 37 13 447 W 80° 10.709

ESN 2910 280 67 NW Yell. and rd
argillite w/ bPC at WP 121 N 37 13.206
carb lineation to SE el 1413 W 80 10.674

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ESN 2910 DATE DAY

DIARY AND WORK RECORD

anticlinal hinge 300 at 15 SE CST
hinge symmetry verging SW

measured 285 10 SE

ESN 2911 EW vert, red and yellow arg w/ bpc, dol in valley below WP 122
N 37 13 156 W 80 10 760 el 1424

ESN 2912 sketched from across res, beneath power line
WP 126

axis trend 290
plunge 12 SE
N37° 13.254 W 80° 10.448
Measured folds
300 10 NE axis
NW Limb E
SE Limb N88E

ESN 2913 yellow lam argillite w maroon
295° 75° NE bpc 270. 32 /T
WP 123 el 1339 N 37 13 060 el 1339
W 80 10 548

ESN 2914 dol ocs at spring branch above canoe livery
295 45 SW red argillite
dol along trail to NE WP 124
N 37 13 076 W 80 10 254 el 1426

ESN 2915 290 64 NE contact between dol and arg, lit

ESN 2916 Sily gray dol interbedded w blk
N50E 17 SE WP 125
N 37° 13.193 W 080° 10.431'
Blk s/+ looks like EEI near boundary

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

as well as bore holes at Lane Stadium Check w/ R²

0800
0900 ESN 2615 Gy layered dol ~50' thick
1000 -underlain by maroon argillite layering 300 @ NE
1100 WP Redan
1200 ESN 2616 big layered dol ~
1300 100' thk 290 73 NE
1400 FSN 2617 monitoring well? Core below argillite on bench
1500 300 55 NE
1600 ESN 2618 anticlinal hinge fireds 300 12 SE in green and orange
1700 calc arg. clear cuts bedding 290 50 NE WP 127
1800 N 37°13.590' W 80°10.417' el 1483
1900 ESN 2619 Dol 290 38 NE
2000 ESN 2620 Dol arg 290 59 SW
roads plunging NW ↘ 20
ESN 2621 highly fissured clef in cast

TO BE DONE TODAY (ACTION LIST)

dark cherty clay ls in drain above trail

2/19/09 Elliston ~ Lafayette area along US 460 ~ Roanoke River

ESN 2410 on knob SW of Old Va Brick Pike Red and Grn argillite in tite V shaped synclinal nose

WP 128 N 37° 13.381 W 80° 12.464 el 1242

NW limb N55E 24SE SW limb 290 35 SW

NON plunging lineation N55E ~ small scale

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2/19/09 DATE Elliston - Lafayette area DAY

DIARY AND WORK RECORD

ESN 2411 in enlarged clay (sh) pit N85E 80SE alternating yellow orange and dusky red argillite saprolite mined for brick clay at WP 129 N37°13.531 W80°12.372 el 1430 mining has stripped a red clay terrace weathered and pitted qtz vein float up to .5 m (1.5'

ESN 2412 upper quarry ~ 25' high wall in argillite N60E 62°NW, layering above in arg dolomite beds N60E 76NW at WP 130 N37°13.447 W80°12.272 el 1395 (within 25' h.)

ESN 2313 sulfide / limonite ? pit along road at el 1627 (WP 131 N37°13.363 W80°12.233 chert breccia, vuggy silica pervaded colored stains pink carbonate (spl) chert debris on trail up to saddle — must be infolded carb.

ESN 2314 crenulated laminar argillite dk gry - maroon cren N35E 28 NE bedding env. surface 310 25 NE WP 132 N37°13.364 W80°12.110 el 1651

ESG 271 ??? 70W 10N then 290 70 NE cold wind at WP 133 N37°13.299 el 1719 1670 Eopo W80°12.085

ESG 272 N80E 65SE yellow-orange weath argillite WBPC N37°13.173 WP el 1689 W80°12.050

Tues 19 Feb 2009 Cold windy clearing
DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 273 N55E 32 SE 1am yellow
8 0800 brn weathd argillite w/bpc at pipeline break in slope
9 0900 ocs on embankment of access road N82 N37E .122 W 20 11.792
10 1000
11 1100 ESN 274 paper thin bpc grn argillite w limonite on and buxious N50E 30 NW ledge WP 135
12 1200 N37°13.055, W 20° 12.200 El 1611
1 1300 ESN 275 Paper thin dusk rd arg w/bpc N 80W 75 NE
2 1400 ledge above house site
3 1500 ESN 276 310 50 NE bpc in red arg ledge w/small
4 1600 springs
5 1700 ESN 277 chevron Folded argillite ledge N 80E 30NW
6 1800 ESN 2515 dk rd brn to gry
7 1900 lam argillite bedding transp N 85E 75 SE @ WP
8 2000 ESN 2516 cren yellow rd argin arg N 80E 3 NE SINSAL

TO BE DONE TODAY (ACTION LIST)

ESN 2917 moss covered ledge of dusky red argillite in embankment N50E 65 NW

ESN 281 at Little Hope Ch N35E 65E yellow brn and red brn argillite ledges in embankmat of SR 603

ESN 282 N5 28E ledge of red argillite in drive

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DATE DAY

DIARY AND WORK RECORD

ESN 283 near Pipeline N63W 60NE
bank rome argillite w bpc

ESN 284 N50E 60NW
gray and red argillite in
cut behind cow shed

ESN 255 gray 1.1 in road
bank in curve lg. blocks
on point prob Karst along strike
to SW

ESN 1432 borrow Pit on Bowers
farm along SR 603 thin bedded
dark gry argillite w regularly
interlayed siltstone beds
D6 N70W, 15 NE
Feb 23, 2008
ESN 2714 alluvial Fan Fills
old Sinkhole ~ 150' dia
across reservoir road at
WP no satellites

ESN 2[illegible] 2 ft ledges of
red argillite w/ bpc 290 75NE
200' Sink hole to N in Field

ESN 2417 N85E 75°NW
interbeds of Rd grn and
yellow argillite w/ bpc @1624
WP 136 N37° 13.287 W80° 10.273'

ESN 2[illegible]18 N60W 55 NE
red maroon arg w/ bpc in bank

ESN 2[illegible]19 N60W 75NE
red maroon argillite ledge
sinkhole at WP, 137
just off pipeline at
N37 13.364' W80° 10.419' @ 1615

PORTABLE UNDATED TWO PAGE PER DAY REFERENCE

Mon
DAY

Feb 23 '09
DATE

Very cold windy, cloudy

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 2622 monitoring well
9 0900 along argillite ridge
red grn + blw chips from
depth el 1611 N 37° 8.384
W 80° 10. 172
10 1000 ESN 2623 ocs of yellow weath
11 1100 argillite w slaty cleavage
in bank along perimeter
12 1200 road N50W 60 SW. On other
slope 310 +/ NE
1 1300 ESN 3715
E-W 45 N thk bedded
2 1400 dusky red argillite
yellow and orange weathered
3 1500 rock in roadcut. Af
4 1600 covers whole ridge. Large
N 37 10 218 W 80 09.764 el 1495
5 1700 ESN 3716 8 9 10 end 13 anticline
6 1800 N80E 55SE (16), in rock
N 70 N 10 (17) arg.
7 1900 N 70W 65 (18) Photo of deer
N 37 10 434 Walks to house
8 2000 W80 09 821 On ridge

TO BE DONE TODAY (ACTION LIST)

ESN 3911 Strike 290 60 NE
massive rd + gr argillite and
thk bedded blk dol
in stream bed at wl 40
N 37 19 075 W 80 09 981 el 1262

ESN 2316
WP 141 N 37 19 277 W80 10.047
S1251 EW 70 S
ESN 2317 N 60E 25 SE dextral
Open plunge 285 10° SE N 37 19 150
W 80 10 002

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clear cold

DATE 2 | 24 | 09 DAY

DIARY AND WORK RECORD

ESN 31 11 WP 143 N37 14 534 W 80 09 306
E-W 45 N red and yellow brn
thin bedded argillite w laminite
structure and bpc el 1227
Qtzite cobbles in stream
w/ considerable spring flow

BN31 12 WP 144 N 37 14 501
karst dot W 80 09 431

ESN 34 13 "Raccoon Ridge E-W 90
red argillite in drive laminated
w/ bpc @ WP 145 el 1330
N 37 14.066' W 80 09.209

ESN 31 14 red lam argillite
in road
290 GSNE

ESN 3220 thin layered dolomite
orange weathered at WP 145'
N 37 14 581 W 80 09 516

ESN 3221 080 70 NE thk
bedded maroon argillite
and yellow orange weath
dolomitic argillite on RR
WP 146 el 1143 N37 14803 W80 08.410

ESN 322 N80E 5 SE thk
bedded red argillite on track
s at WP 147 el 1263
N 37 14 891 W 80 08 407

G-LN 982 rd argillite in
road bank N80E 85SE

ESN 3115 10' gray carbonate lodge
in River N 85E 42 SE
WP 148 el 1277 N 37 14 698
W 80 09 265

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DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 285 WP 149 el 1480

8 0800 300 42 NE Contact Srg dol Yell. weath arg. Illite

9 0900 N37 12 .813 W80 11.467

10 1000 ESN 286 E-W 65 N lam arg. Illite on road at WP

11 1100 150 el 1317 N37 12 953 W80 11 338

12 1200 ESN 287 arg 290 35 NE

1 1300 ESN 288 290 30 NE arg

2 1400 ESN 289 N 75E 55 NW

3 1500 **ESN 413** pavement in RR river

4 1600 below old bridge N85E 15 SE Gray dolomite, reline w/

5 1700 White veining WP 151 el 1282 N37 12 019 W 80 14386

6 1800 River Stinks! Chevron Fold hinge plunges SW 55 W 44 10

7 1900 ESN 421 VISHNIKS Farm — No one home

8 2000 N35E 30 SE maroon and orange WP 152 el 1377 N 37 12 242 W 80 13656

TO BE DONE TODAY (ACTION LIST)

ESN WP 153 El 1331 N 37 12 523 W 80° 14 112 headwaters (dry of big Spring

ESN-188 Headwaters of current Spring WP 154 N 37° 12.673 W 80 14.060

ESN 189 OCS of gray dol. at base of Bluff above Spring N 37 12 739 W80 14 020 N40E 20 SE OK!

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DATE DAY

DIARY AND WORK RECORD

ESN 1810 ledges of dusky red argillite W bPC N50E 40SE just below pipeline, bldrs below. WP 155 N 37° 12.719 W 80° 13.343 el 1353

ESN 1911 crenulated maroon laminated argillite W | BPC In N70E-S NE WP

ESN 1911 in Bubtist Com - bldrs and red clay soil

ESN 1912 WP 156 N 37 13.039 el 1477 yellow weath chp W80 13 553 of Rome argillite in clay soil on sw side of knob, beds exposed on 4W healer trail N45E 75SE

Feb 25 '09 ESN 511 at end of road maintanence grn gry argillite ledge strikes 310° 20NE d.p WP 157 el 1573 N 37° 12.328 W 80° 11.974

ESN 512 N65E 50 SE cleavage in paper thin red argilite sap exposure or creek bank below bldrs WP 158 el 1531 N37 12 174 W80 11 911

ESN 513 N45E 50SE cleavage in grn argillite sap rock exposed on road. Al bldrs above and below WP 159 el 1815 N 37° 11.898' W 80° 11.868

ESN 514 red soil w bdt metabasalt (GS) fit in soil also limonite breccia chips / w ochraous green stone or phyllite WP 160 el 2154 N37 11.722 W 80 11 .645 Photo above or at Blue Ridge / Poor Mtn

Wed 2125/09 ELLISTON

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 526 el 2000 b WP

8 0800 N50E 10SE schistosity on
9 0900 massive, fractured meta basalt
10 1000 broken qtzite ledge above
N50E 34SE @ WP

11 1100 ESN 527 20006 2006GPS WP Kal
N 37°11.887', W 80°11.571
12 1200 Maroon argillite w/ gray
1 1300 lor interbeds N50E 40SE dip
continuous ledge for 100'

2 1400 ESN528 el 2050 b 2148 GPS
N 37°11.937', W 80°11.544'
3 1500 Karst area on slope chert
w/ boxworks, carbonate float
4 1600 ESN529 el 2009 21206
5 1700 N 37° 12 075 W 80 11.509
red and green argillite chips
6 1800 oakhob

7 1900 ESN 5210 S70E to Power Twr
8 2000 on spur. Logging road
exposes yellow org chips
and soprolite WPJ 164
el 2050 N 37° 12.129 W80 11.357'

Buck snorting

TO BE DONE TODAY (ACTION LIST) above

ESN 5211 Knob covered w/ unicoi
blds in old fan deposit at
WP 165 N 37 12 267 el 1951
W 80 11 276

ESN 5212 N70W 28SW dusky lam
rd argillite ledge on SE nose
of saddle at WP 166 N 37°12.314'
el 2014 W 80 11.438'

ESW 5213 W80W 58NE red argillite

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2/25/09

DATE DAY

DIARY AND WORK RECORD

ESN 515 N60E 15 NW grn siliceous argillite ledge on 4 wheeler tr

ESN 515 N60E 40NW grn argillite along trail

ESN 278 N70W 50 NE fractured dolomite ledge in saddle at WP167 el 1679 N37° 12.572 W 80° 11.952 N70E 40 NW on other side of saddle

ESN 277 N 70 W 57 NE red lam argillite w/ paper thin bedding plane cleavage

Feb 26 2009 **ESN 517** **N60E 30 NE** crenulation axis and cave that follows it ~150' back in ground

ESN431 dk grey argillite w/ bac intra N60E 45 SE Lime ledges on hill N60E 30 NW — synclinal fold

ESN 432 Dk grey and lite grey sac dol N60E 65 SE WP 168 N 37 12.451 80° 12.519'

ESN 433 Mass-Lam dol beds N 55E 75 NW

ESN 434 orange [illegible] in stream N 55 E 65 SE N 37 12 418 W 80 12 854

ESN 545 GPS 2008 fine qtz ss N 37 11 171 W 80° 12.166

N 10 W 65 NE, N60E 40 SE

ESN 546

First Rome WP171 E 20 N 37 11 352 W 80 12 285

DAY 226 09 DATE

ESN461 **APPOINTMENTS & SCHEDULED EVENTS**

N37 11 .565 N10W 20.5W

8 WE0 12.756 WP 173 el 1681

0800

9 Brown - yell weath lam dol arg

0900 on stream bank road in stream

10 bed

1000

11 ESN165 N30E 35SE Sh/ls

1100 in cliffs el 1654

12 N37 11.608

1200 W80 12.489

1

1300 ESN 432 WP 174, Farris gate

2 at N37 11 163 W80 13 006

1400 el 1753, Yellow orange argillite

3 chips in bank N30E 55SE

1500 red argillite across creek

4

1600 ESN 433 WP 175 lt grn

5 arg w/6pc thin ls

1700 N33E 25SE

6 N37 11 485 W80 12 958

1800

7 ESN 434 WP 176 el 1567

1900 N37 11 672 W80 12 887

8 N55E 30SE green and

2000 red argillite

TO BE DONE TODAY (ACTION LIST)

ESN 436 WP 37 11.740, W80 12.909

Pilgts of cave in N30 dol

ledge N60E 30SE Strong joint

N30E 75 NW

el 1654 N40W 80 SW

ESN 437 N60E 40SE dk gry

thk bedded dolomite

el 1431 N37 11 831 W80 12.929

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DATE DAY

DIARY AND WORK RECORD

ESN 438
320 80 NE lam. thin bedded argillite over lies dk gry dolomite in anticlinal core 270° 10 N thin beds
WP 180 el 1584 N 37 11.877 W 80 12.928

ESN 439 Ledges of grey dol and maroon argillite on ridge N 70 E 20 SE
From WP 181 N 37 11 976 W 8012 .931
el 1460

ESN 4310 directly to East org ledges in bluff on E. side of creek dip gently to E

ESN4311 red + gn arg
555 N 24 SW hinges

ESN 192 N 50 E 90 SE
red and orang argillite
Saprolite behind house
el 1440 N 37 12 668
W 80 13 016

ESN 193 N 50 E 17 SE behind
garage - sap of thin-med
bedded argillite WP

ESN 77 / WP 182 - elliston. Sch Yd
N 37 10.783 W 80 14,513
el 1291 photo fo SW of massive
dolomite beds in Salem Church
sheet

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE

2/26/09

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN772 N35E 40SE

8 0800 layores of breccia,
9 0900 brecciated dolomite and
gray-yellow weathered argillite
10 1000 in Bluff above S. Fork
of Roanoke River
11 1100 WP 183 N 37 10 526 W 80 14.344'
el 1343 Photo of beds
N20E 28SE
12 1200
ESN 773 N 25E 54 SE yellow
1 1300 weathered argillite w BPC
at WP 184 el 1392
2 1400 N 37° 10.369', W 80° 14.614'
Rome or Elbrook?
3 1500 2/27/09
ESN 491 red and grn arg
4 1600 ledge above powerline N55E 26SE
WP 185 N37 10 123 W80 14.350
5 1700
ESN 492 290 43 SW
6 1800 ledge maroon/grn arg +
some dol below spring.
7 1900 ESN 481 N55E 70SE red
8 2000 tem argillite in road
cut
ESN 482 red argillite w BPC

TO BE DONE TODAY (ACTION LIST)

in road bank N55 70SE

ESN 713 Massive bedded
dk gr mottled lt gray in
ledge along road cut
N15E 38

ESN N65E 76 bedding N40E 49SE
drag overturned ledge
in road cut below powerline
red arg silt BPC and slaty

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2/27/09 DATE DAY

DIARY AND WORK RECORD

ESN 484 Lam dol argillite and green arg w/ BPC N20W 5NE deep clay sap in cove across road where new pond is developed

ESN 485 red mdst in crvg N40E 20SE

ESN 486 N80E 10SE Phot 600 dark Run Road lam to tk bedded argillite and impure dol above slaty cleaved rd + y/w weath arg; ill fx below

ESN 487 new drive exposed red mudrock/arg on steep slope N40E 35 SE outcrops in stream

ESN 488 Cliff on bluff N40E 25 NW From road Argillite

ESN 489 big exposure at end of ridge 1155E 55SE Interbedded slaty and massive bedded argillite

ESN 4810 N30E 15 SE panky weath dol and breccia w argillitic layers te?

Lam arg N60E 25 SE beyond

N 37 () 435 W 60 14 SE

2/27/09

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 474 WP 186 of 350 N 37° 10, 04
N 15 E 78 SE W 80° 14.59
red argillite w/ BPC
9 0900 green drain to SW looks
to be all conte
10 1000
11 1100 ESN 475 WP @ 1519 N 37 09 541
W 80 14 509
old m. wheel and trailing
12 1200 laminated argillite N 5 65 SE
BPC
1 1300 N 20 E 82 SE
inter red argillite = OT
2 1400 slum may be built
w/ travertine
3 1500
4 1600 ESN 771 N 23 E 28 SE 6k dol
w/ qtz WP 187 bridgefacells
5 1700 rusted w/ missing sects
of I beams web reinforced
6 1800 recently w/ bolts
WP 187 N 37 09 751 W 80° 14 525
7 1900 ESN 772 N 60 E 27 SE Ar
8 2000 strike on Argillite ledges
at Ridge 20 ft

3/4/08 TO BE DONE TODAY (ACTION LIST)

ESN 773 LS, blk - dk gy mottled
massive rock and on slope
N 50 E 20 SE bedding
774 ESN more rock ledges on both
sides of valley 150' above 81 side
air strike N 45 E 15 SE
ESN 775 old church ledges of
red and gray argillite N 50 E
13 SE w/ slaty cleavage N 60 W
67 SE

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DATE DAY

DIARY AND WORK RECORD

END of Rd 121A BONEPATH BLANKEN Rd, spring at mail box
ESN 776 beneath power line
NGOW 20GW Maroon and gray argillite

ESN 777 beneath powerline
Maroon argillite N30E 55 SE
thin bedded grades up into
massive gray dolomite, highly
fractured with pink weathering
calcite veins

ESN 778 gray and maroon argillite
thin bedded to laminated
N75E 70SE No Satellite

IRO 692 N 70 E 20 SE shear
and brecciated Elbrook Dol on
driveway

IRO 931, WP 188 N 37°09.936
W 80 15.005
el 1600 shaly argillite chips
in shoulder of Fillhouse Road
turnaround N 80E, 50 E
another shly oc in driveway
below - N 20E vert w/ near
horizontal cleavage

IRO 932 N80E 65 SE yellow
weathered argillite in bank
along SR 637

IRO 933 N20E 50 NW gray
slaty dolomite ledge behind
house at WP 189 N 37°09.969
W 80 15.23

IRO 934 N30E 5 SW cronulation
in lt gr slaty dol bedding N70W I
WP vert Fracture cleavage N25W

DAY 3/4/09 DATE

APPOINTMENTS & SCHEDULED EVENTS

IRO 921 N cow 20 NW yellow
8 0800 11S 99 759 W80 15, 798'
9 0900 ESN 4812 airstrike From
10 digital photo 1000
11 3/5/09 ESN 715 Digital Air
1100 Strike on Rome beds in Saddle
12 N20E 25SE 1200
1 IRO 631 Photos of J. fork
1300 and River Ridge Air Strike
2 N50E 40SE
1400 elevation 346 GPS
3 IRO 632 S 35W 105 N
1500 WP 191 N37 09 160 W80 15 55.
4 of fold in
1600
5 rome
1700 Anticlinal axis photo N GordosF
6
1800 ESN 771 Calhoon Hollow
7 Rome LS + dol ledges
1900 crossing road at trailer
8 N40E 48NW 160ft
2000

ESN 772 beyond double

TO BE DONE TODAY (ACTION LIST)

wide at WP 190 elev 738
N20E 60 2' bk-gry dol
in red bed seq
N 37 07,981 W 80 14896.

IRO 991 dk gry Xline dol
N60E 48 NW

IRO 992 320 30NE dol

IRO 993 red beds beds N50E 20SE
cleavage lins N30E 75 SE

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DATE DAY

DIARY AND WORK RECORD

IR 0994
N40E 64 SE lamination in massive red argillite w/ slaty cleavage N60E 35NW

IR 0995 gray thk bedded fract dolomite w/ wht & yellow stains = hydrothermal alt N15 W 52 NE

IR 996 at end cl1662
N 37 08.238 W 80° 15.522
N50E 42 NW silt, 6N 10' bed ~ 2' thk above house

IR 997 N20E 65 NW turn in by old house exposed red arg: W BPC

IR 998 N20E 65 NW bedding plane in yellow argillite along road embankment
cl 1536 37 08 013 W 80 15.732
across from house

IR 999 lam and thick bedded arg - silic dolomite ledge outcrops on shoulder
N30E 75 SE

FSN 788 oc of massive argillite on steep slope WP 1684
N37 07 783 W 80 14.014 cl 1685
N 60E 35 SE

SNN 789 yellow arg and silic dol in bank N20E 85SE

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE

3/5/09
DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 IRO 333 N40E 60SE (SEW
ledges of cleaved and
9 0900 dolomite in fold core
N35E 40 NW (NW LIMB)
10 1000 Hinge plunges S 50 W at 15 SW
ap N40E 10 NW
11 1100 rabbit ear
WP 194 el 1506
12 1200 N 37 10. 143 W 80 25. 879
For NW Limb N30E 35 NW
1 1300 3/6/09 ESN 434 highly
2 1400 deformed Elbrook Dol
N35E 30SE shly zone
3 1500 w/ folds 150'
4 1600 ESN 435 N50E 60SE
roll over
5 1700
6 1800 crew E-W, 7E
7 1900 ESN 441 N45E 51 S
Sy
8 2000 cross joints 320 55 SW
fault ?

TO BE DONE TODAY (ACTION LIST)

ESN 442 N30N 25 SW
massive dol beds

ESN 443 NS 50 E bedding (Photo)
massive gry pods of
sil breccia w/ gossan

ESN 444 photo of cross Fault ?
w 5m fold hinge

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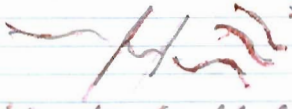
8/16/09 DATE DAY

DIARY AND WORK RECORD

ESN 444 Cross struct
340 30SW
N20W 30SW

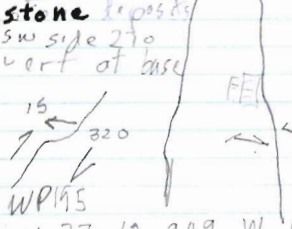


thick bedded gray dol
strikes NS dips 40 E
Ford hinges 30 to NE

ESN 445 N80 40SE massive
bedded gry & white dol.
w/cross faults at loc of
old tunnel
240 22 NE
290

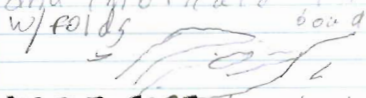
3/17/09 ESN 446 N 46E 38SE
N75E 12 NW syncline in
thin bedded elbrook dol
plunge ~ 230 at ~10

ESN 445 redux Keystone
Talked w/NS guys Fault zone
N side moved
W then drip 290 80 NE
stone
SW side 270
vert at base



N 37° 10 949, W 80 14.735

ESN 447 photos of ls scar
and imbricate thrust zone
w/folds boudins back
thrust
dip



N25E 80SE Thrust plane

St Patrick

DAY 3/17/09 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 716 N 30E 75 SE, Rd Mdsn and argillite flags then gray 13 w/ much travertine in Stradam bc SW

9 0900

10 1000 ESN 756 at old house site WP 196 el 1905 el 1700s

11 1100 N 37 08 .933 W 80 13 .810 1700s' b Calhowee Gtzite in Fan

12 1200 ESN 757

1 1300 N30E 60 SE SE link of anticline at WP 197

2 1400 el 1778 N37 08 956 W80 13 827

3 1500 ESN 758 Hinge on property line / old Fence N 20 E 12 SW

4 1600 WP 198 el 1809 N 37 08 .993 W 80 13 .830

5 1700 NW LIMB N20E 60 NW at 1650 ft

6 1800 ESN 759 WP 199 el 1726 N 37 09 106 W80 13.767

7 1900 SINKHOLE IN SADDLE ARGILLITE DC ON CREST

8 2000 N 30E 75 SE

TO BE DONE TODAY (ACTION LIST)

ESN 722 College of Ylw orange weathered argillite many shaly chips in road bed at WP 265 el 2078 1940 Topo correction on AP N 37 09 235 W80 12 935

ESN 723 dk gy dol blocks in hollow and logging road

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NOTES

ESN124	Road curves across green and red argillite N BPC N45E 55SE
	WP 201 N 37 09.279 W80 13.667
	el 2050 (2050B)
ESN725	Black chert, redchy in saddle dol / is in zone
ESN726	N45E 79 SE argillite tsiliceous argillite lt grn, wht. ZIPDT
el 2049	to lt gray weath Fine
N37 09.360	
W80 13.737	ss or siltstn WP 20 WP 202
	Turkeys gobbling
ESN727	Flushed gang of turkeys and 3 deer on power line
	black chert Float in
el 2095	woods on SE side of line
WP 203	N35E 60SE ledges of
N37 09 39	red and grn arg on
W80 13 925	NW side of Power line
ESN728	Yiw-grn arg N45E GSNW
	Just above Power line
ESN729	Very massive to layered
WP 204	dk gry crystalline dol
el 1887	w/ pink splotches (Spal.P)
N37 09 238	N40E 70SE at WP
W80°14.123	boneat crossings Powerlines
ESN717	el 1799 N. 37 09.215 W80 14 165
WP205	argillite ledges N30E 57 SE
	bench below
ESN726	N30E, 55 NW. Crenulated red argillite ledge

NOTES 3/17/09

ESN 7511	Rd + Grn argillite w BPC in
17506	road bank N28E 78NW
WP 206	N 37 08 942 W 80 13.936
	some Chilhowee cobbles on road
	N 22E 20 NW coarse
	recline dol below
ESN 718	Arg, ill, te ledges on steep sbpc
	just before rd crosses to
	SW side of stream N 30E, 60SE
ESN 719	Photo of adit in dolomite
WP 207	With timber still standing
N 37 09.264	NO OC because of travertine
W 80 14.433	cover dol in creek
	much travertine in creek
ESN 710	Layering N 45E 60SE. In lam
	argillite 100' down stream
	from adit
3/18/09	
ESN 711	Road to N from main road at
15506	WP 208 el 1640 N 37 09 296 W 80 14.366
	Massive dol overlain by thn
	bedded argillite N30E 65SE
ESN 712	mineralized silicified breccia
WP 209	(sad?) yellow and white
N 37°09.284	vug filling Trenched from
W 80°14.385	road to creek below
el 1547	Photos + Spl weathered mtl
	above resembles gossan
	N35E 70SE Nodular mineralized
	breccia overlys sheared bdrock
	gray + tan ls

NOTES 3/18/09

ESN 713 Two pits above road
WP 210 one across strike ~ 25
N 37°09.326 10 x 10 that crosses zinc
W 80°14.441 blende and one
el 1617 about 10 x 10 x 15
(15906) along vein
Photos Topo expression
is steep ravine with ore vein
dol on N 30 65 SE Mass dol
numerous fract zinc along
bedding and cross veins

Lower N 5W 20°SW, 320° 60 SW joints
WP 211 320° 24 NE. Lower pit exposed
N 37°09.304 weathered mineralized zone
W 80° 14.448 bright sphalerite may be
el 1757 beneath leaves
(16206) Correct.
ESN 714 small pit in vuggy rexline
WP 212 dol w qtz crystal lined
N 37°09.351 vugs rusty limonitic
W 80° 14.430 stains Pit 10 x 6 x 6
el 1709 w 20' dump on slope
el 1736 25' below crest red arg
on NW side of ravine (spur
N 30 E 80 SE

ESN 715 Vertical shaft 10 x 10 x 50?
WP 213 photo in massive fract lt
N 37°09.409 gry xline dolomite
W 80° 14.387 el 1914 ( )
beds N 30E 45 SE joints 330 80 SW
060 60 SE

ESN 716 OCs of lt blu gray intensely
WP 214 el 1932 burrowed and ribbon bandod
N 37°09.409 lime mudsn N 35E 65SE as 713
W 80° 14.354

Day Runner

NOTES 3/18/09

ESN 717 — Dark brown to burnt orange arg
WP 215 — or dol arg. Hi tetsh fit on top
el 1658 — at WP 215 N 37°09.419' W 80°14.296'
2030 Topo — 2040 ±

ESN 7118 — Large bench and adit at el
WP 216 — 1600 in massive fractured
el 1601 — lt gray x line dolomite 1580±
N 37 09.244 — Bedding N30E 78°SE Fracs
W 80 14.459 — N60E 67 NW N70E 20SE

ESN 7119 — small pit in dol 6x6 x/0
WP 217 — about 100' above adit
el 1607 (1660) — N3709.211 W 80 14.457
N 7120

ESN 7120 — small pit ~ 50' above 719
WP No Sat — el 1700± crystal aggregates of sphal (yel) up to 10MM in vugs disseminated sulfide smells when rock is broken Galena? sparkles

7121

ESN 7121 — Small Pit on powerline ROW
WP 218 — exposes vuggy (small sand?)
N 37°09.165 — qtz laden dolomite
W 80°14.601 — el 1840± E1 1838 GPS

ESN 722 — Ledge of red argillite N30E
WP 219 — 60 BPC N 37°09.136 W 80°14.514
el 1834

ESN 723 — Rd argillite ledges on
WP 220 — spur N30E 78 NW N37°09.245
W 80°14.480 el 1828 (1700±)

3/19/09 — ESN 7124 N 30 E 58 SE
BPC in Ylw orange weath. arg
at el 1450± bench w/ chert below

WP 221 N 3709.736 W 80°19 425

NOTES 3/19/09

ESN712 5 el 15 66 WP 222 N 37°09.735 W80°14.375 rd. arg. w/ BPC N 35E 53 SE, corne.

ESN7126 WP223 at el 1620 thin bedded and cross lam. gate, ltflaser bedded white to pink weathering arkosic

bench el 1759 N 55 beds N 37 09 724 W 80 14.310 Sulfide rich dk gry wacke sh rich fine lol above on bench decpred soil

ESN7127 at el 17006 N35E 70SE ledge WP224 OF red argillite w/ BPC 1931 N37°09.749 W 80°14.310

ESN7128 at el 1790 top of another carbonate WP225 interval N 37 09 751 W80°14.222, 1791 N45E 20 SE on beds of med gray wackesn.

ESN721 N48E 78 SE laminated el 19206 supratidal dd argillite lips WP226 beneath massive arg w BPC el 1937 N37° 09.794 W 80 14.111

ESN7212 rd argillite w/BPC N40E 75NW WP 227 at el 2100b el 2089 N37 09 900 W80 14 021

ESN4813 rd arg. w BPC grn andyl w sh WP228 N45E 65NW el 2066, N37 10.050 W80 13.925

ESN4814 N42E 47 NW red arg w/ BPC WP229 at crest 2080 ± at 30" oak el 2173 snag corner N 37°10.178', W80° 13.872'

ESN7213 N5 25 E orange arg sap in 1945 el cut at el 1960 below saddle WP230 N37°09.909' W 80°13.809'

Day Runners

NOTES

ESN7214	In saddle 325 14 NE red and
2237	grn arg w/BPC at WP 231
1960B	N 37 09 836 W 80 13.768
ESN7215	Rd + Yly arg sap w/ BPC + oc ls
WP208	N50E 36 SE 2030B
2047	N 37 09 723, W 80 13 836
ESN 7216	Pit in sltly cly dol, karst
WP 232	dep to SE N47E 60 SE
N 37 09	662 W80 13.335 el 2196
ESN 7217	N50E 62 SE Top of dol. sct
wp 234	w/ bk chrt N 37 09 493 W 80 13.944
el 2025	
ESN 7218	N20E 55 SE Arg slsn Fine SC
WP 235	ltgrn ylw rd and white weathered
el 2000	2088 N 37° 09 .324 W 80° 14. 063
ESN 7219	Silicified algal chert w/ vugs
	in saddle
ESN 7129	Red arg, lite w/BPC N25E 75NW
WP 236	in 2ND saddle el 2020B
N37 09	428 W 80 14.218
ESN 7130	Crossed burrow mot. slaty
WP	ls/dol then orange supratidal
	dol/arg N 40E 62 SE el 1900B
ESN 7131	N65E 35 SE gray arg w BPC
	dips beneath ram car & und
ESN 7132	lam arg grn gry N35E 15 SE
	el 1660B

Clear cool

NOTES 3/23/09

ESN 451 Madison Fm WP 237
el 1357 N 37° 11.112 W 80 14.031
Brn sndy loam w w/rnded
qtz cobbles in Td

ESN 452 WP 238 el 1446
N 37 11 131 W 80 13 774
Photo of qtzite bldrs
in pits on slope

ESN 453 WP
dusky rd argillite W/BPC
335 (N25W) 40 NW
WP 239 N5 40 W el 1440
N37 11.211 W80 13.771

ESN 454 WP 240 el 1690
N 37° 11.258 W 80° 13.690'
Rd argillite in subsoil
N10W 58NE just above (10')
fenceline on spur ridge

ESN 455 WP241 N 37° 11.364 W80 13.661
Rd argillite N10W 65SW BPC on knob
el 1698 1762 T

ESN 456 WP 242 sinkhole 15' deep
150' dia at WP 242 N 37° 11.561'
16986 W 80° 13.556 el 1787

ESN 457 WP 243 N37 11 631 W80°13.609
el 17956 /1746ft BPC/Rd Arg
N40E 64 SE

ESN 458 N10E 72SE y/w qtz
WP 244 arg w BPC

el 1838(1740) N 37° 11.448' W 80° 13.523

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NOTES 3/23/09 Clear Cool

ESN 459 N10E 75SE thin cleaved (slate) rdw grn arg slite SE of fj gray dol float in saddle at WP 245
el 1633 N 37 11 335 W 80° 13 374

ESN 460 Bed of orang ylw arg. N. WP 244 across saddle clevn N 40E 60SE Bedding NS 10E WP 246
el 1748 N37 11.345 W80° 13.326

ESN 466 Brown Silty arg N 20E 70SE clvn WP 247 el 1994( ) N 37° 11.378 W 80° 13.[illegible]

ESN 467 el 2020 ft
red argillite chips w/ flaty clvn
N 248 m fine 1005 N 37° 11.400 W 80° 13.395'

ESN 468 N 25E 15SE clevn bdng
el 1873 transposed in red [illegible] argillite
WP 249 N 37° 11.308 W 80 10' 169 [illegible] 1960 ft

ESN 469 Many cleavage chips grn and rd
19606 argillite on ridge top
19 27 Laminated arg ledge N 25E 30
WP 250 N 37° 11.157 W 80° 13.181'

ESN 460 Laminated grn-gray micaceous
WP 251 argillite N/BPC on old road
el 1791 N 18E 30SE, N 37° 10.888 W 80° 13.124'
18806
ESN 462 WP 252 N 37° 10.774 W 80° 13.113
2102' N 35E 55SE Massive to thk
2000T bedded gray dolomite
2040B ledge

Item # 013-200

NOTES 3/23/09

ESN494 Lam Rd arg. W/BPC N1+lam
el 1456 N10E 15 SE, N 37 10 797
N9606 PHOTO OF RR Tunnel W 80 13.249

ESN 484 NS 30 E lam dk Sr grd
WP 258 argillite ledge N37° 10 747 W80 13 389
1858, 1920b

ESN 485 NS 35E laminated rd arg.
oc. on steep slope 100' above saddle
WP255 N 37 10 791 W 80 13 453 el 1775

ESN451 Qtzite boulders w/ Skolithus
WP256 in saddle, ind on slope
el 1596 N 37° 10, 804', W 80° 13.599'

ESN495 2 Red grn and y/w weathered
WP257 argillite chips in soil on nose
1621 above saddle. N 37° 10.876 W 80° 13253

ESN145 13 N 10E 58 SE Cleavage in
y/w weath silty argillite
1523 (1620) on nose at N 37 10 997 W 80° 13 841

ESN 45 14 330 38 Massive
WP 258 lam brn weathered grn
1377 dolomite ledge above pond
14806 N 37° 11.030 W 80° 13.829

March 24 Cool, Sunny

ESN495 lam grn argillite w/ BPC N50E 60
WP259 N 37° 10.169' W 80° 13.114' el 1590 154

ESN496 Chilhowee blks and cobbles in rd
WP260 el 1644 N 37. 10. 207' W 80° 12.942'

Day Runners

NOTES 3/24/09

ESN497 Grn-Gray arg dol w/ am
WP261 and BPC N35E 37NW
el 1791 N 37° 10.291 W 80° 12.559

ESN498 brgt orange weath argillite
WP262 or arg ddlo sep w/ lamina
el 2191 a mica folia N35E 15SE
N 37 10 259 W 80 12.484

ESN5733 Ledge of White to
WP263 med grg Fine gr qtzite
el 2498 N10W 15 NE Joints
N 37 10 226 280 85 SW
W 80 12 415 NS 60 W 2900 ft
trench below oc - no ore

ESN5734 Large prospect w/ 20' Highwall 50 trench
WP264 N 37 10.137 W 80 12.45' el 2346 2370
Samp qtzite - thin bedded N45E 65E

ESN5735 Prospect pit 6-8' HW 30'
P2265 trench small pieces of
ESN5735 limonite at N 37 10.075'
2330 W 80 12.975'
N30E Medium bedded lt gry-yl w
60 SE stained quartzite bxds

ESN8114 e2300 B White qtzite ledge
WP266 N 37 10 003 W 80 12 446 el 2256
N10E 17 SE at least 50' above
Fault zone and Rome fm
R-8791 Chem Spl
ESN8115 el 21006 Pit in limonite
WP267 residual ore below Qtzite
el 1979 green shale mix pit 20' long
dum 40' dia N 37° 09.999 W 80 12.467

Item # 013-200
Photos

3124/09

NOTES

ESN 7319 E 2100 B (2307) N 37° 09.708' W 80° 11.578'
WP 269 large bank and dump - little ore mosty argillite chips

ESN 7321 Big pit ~ 75' long 50' dia dump
WP at 21006 atzite oc above
pit 2240 N45E CO SE

ESN 732 Bull dozed road on spur
WP 269 N 37 09 849 W 80 12 727
el 2240 2200 B Chips of red + grn argillite

ESN 7323 Ledges of yellow + grn and red argillite N35E
WP 270 305E 1930
E1890 N 37 09 877 W 80 12 848

ESN 7324 ledges of dol + grn-gry arg N 35 E 60SE

ESN 422 PHOTO OF Graded River
WP 271 el 1330 N 37 11.869 W 80 13.918
deposits at new school site Qt cobbles + blows in orange silty clay soil

WP 272 ESN 423 Sinkhole at
1333 N 37 12 013 W 80 13.318

ESN 424 at spillway to small pond
WP 273 grn weathered laty argillite
1363 sap N 35E 42 SE
el 1363 N 37° 11.933' W 80° 13.591'

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NOTES

el 1436

ESN 425 Bank exposed Rd gangrn Rdy
NP 274 argillite N40E 40SE (N37 11.951 W80 13.525)

ESN 426
el 1685 Cut at uppr pond exposes
(1420T) red and gray argillite beds
w/ Slaty BPC N80E 25SE
N 37 11 848 W 80 13 395

ESN 427 N 20E 18 NW ledge on
logging road at el 1430 6
Rd gray argillite w/ BPC

WP 275 Heavily cleaved dk gry argillite
ledge N 37 11 775 W 80° 13 243
N 45E 50SE ~ 50' above Spring
bores and round Karst feature

11/5/09 ESN 1-1-13 sltsn + sh
EL 1414 inter beds on sltz
1570 6 N 22 W 20 NE
WP 116 N 37 14 708 W 80 14 245

WP 117 ESN 1-1-14 N 37 14 812 W 80 14 400
el 1714 N 28°E 18 SE
el 1620 6

WP 118 ESN 1-1-15 N 36W 10 NE
1793 gray to v lt gry weather
sltsn + sh w tracks
or grasses on bedding
N 37° 14.890 W 80° 14.469

WP 119 ESN 1-1-16 N 28 W 12 NE
el 1918 gray - tan weathg sltsn / argillite
thin - med bedd
N 37° 14 948 W 80 14 542
Photos of Paris Mtn
and log truck on road to E

Pocahontas Section Mattoaka WV

NOTES July 9 2009

1' coal w/gray clay interbed in red and tan sh/ and silt sh

WP343 el 2207G N 37° 28.854
2200 b W 81° 18.679

SET BAROmeter at 2200

WP344 2252G N 37 28.822
2230 b W 81. 18. 559
gray sltsh w/ spaced jointing
/// over sig
by 50' sh/ dk gy
boardy weathered then
2'55

WP345 2144 N 37° 28.769'
2200 b W 81° 18.545 2'
light gray qtz ss separated
by 4' shale,

WP347 3' black shale, 4' above
Marker SS below
2169G 2270G

WP348 2320B 4' s/s fine ss 22
w short base, coaly part. 14
above then spheroidal
20' shale — GPS el 2270 G
N 37° 28.673 W 81 18.400

WP349 el 2350 b — top of sh/s interval
begin boardy weathering silt
ant 20' thick — type first
by sam N 37° 28.633' GPS el 2282 G
W 81° 18.383'

2" coal w 1' seat earth at

Day Runner page

NOTES

WP 350 N 37° 28.562' W 81° 18.272
2380b 1' coal above 5' [illegible]
2390GPS seatearth then 6" gray cly sh the 3" black sh/coal
WP 351 el 2420 B 15' above bg Sand ~ 18-27' cgl
2385GPS 2' clay beneath top of SS dips 2° NW 040 strk N 37° 28.590 W 81° 18.088'
WP 352 N 37 28 572 W 81 18.033
2852G N 70 E 9° NW coal E-W 9N
24506 Meas. 26' overlain by mass med gr SS w/ spheroidal wearth.
splays out
24806
WP 353 e 2453 N 37° 28.619 W 81° 17.795
25206 top of SS 57-60" coal seam overlain by white shale
25706 21" coal in bleached silty clay lateral below NGP SS ~ 30'
26006 laminated mudSN partly overlain by thick bedded SS.
26106 SS top EW at 10 N
26306 base of tan weathered sh and thk SS tongues w/ disc. coal zone at 7° Tmass arose bedded SS
26606 base of med-cg Tmass arose bedded SS
27206 Top of big SS black sh chips silt sh
2790b 10' interval w 2 3' ss beds
"boundary weathering"

Item # 013-808

NOTES

overlain by 30' sh/slt sn seat Wide
valley fted w boardy weath zones
el 2866 b top of Sh thk bedded
MCL ss, cross beds & strong castlekdal
spaced 20 - 40 between
joints. some shaly or flaggy zones
along strike
2880 b 2' gray under clay 3½' coal at
top of sh/y slt seq
Strong rip up contact at
coal. In base of Massive to
cross bedded ss convolute
bedded zone 5' above coal
WP353 el 2910, 30' above conv. Zone
el 2821 G very massive SS 0' highwall
thin bedded zone above
N 37° 28.648 W 81° 16.868
2960 b a medium - thick - bedded
zone above massive ss
WP 354 2965 b 8' shale break w/ 3
sand ledges pyritic
2859 G N 37° 28 663 W 81° 16.770
3060 b top of hummocky
3065 18" coal w 2-3' Underclay
WP355 seq N 37° 28.595
3100 b 2987 G W 81° 16 723
WP356 N 37 28 532 W 81 16 723
3038 G base of massive sand.
black sh chips on bank
File Automate Photomerge

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NOTES

NOTES

11/10/07	ESN 341
ESN341	N 70W 55NE (296)
WP286	red and yellow sh sap on pipe line, large qtzite and Cgl bldrs on slope (Photo) WP 286 N 37 13' 35.1" el 1460 13406 W80° 09' 46.8"
ESN342	N35W 35 SW green
WP287	shale saprol, fe along pipeline WP 287 el 1514 (1480) N37° 13' 37.6" W 80° 09' 36.9" Cobbles + bldrs mantle slopes
ESN343	Sinkhole just S of pipeline
WP288	at WP 288 N37° 13' 38.8" el 1564 W80° 09' 26.8 14706
ESN344	ledge ~ 30' cliff above
WP289	stream (dry) at WP lt grnish gray argille and tow rank slate N 70W 74 S.W el 1610 b 1706 N37° 13' 34.8 W80° 09' 19.0"
ESN345	N 37 13' 34.7" W 80° 09' 14.3"
WP290	el 1752 el 1700b ledge of med bedded dk gry - black impure, wavy bedded dolomite N50E 10SE
ESN346	el 1800 topo green shale - phyllite
WP291	+ red argillite stripe
GB1800	on flatted hill top 2 tables adjacent to road 15 del above N37° 13' 33.1" W 80° 09' 10.7" el 1820

Day Runner

N 54 E 15 SE wavy

NOTES 11/12/07

ESN351 WP292	Fractured dolomite brec w/thin lab luc gray micrite float. N58W 32 SW N 37° 13' 32.4" el 1873 N 80° 09' 06.3"
ESN354 B	Photos of ledges @1900b N60W 30SW blueish gray dol ls + yellow brn dolomite w/ sandy laminations microcross beds
ESN352 WP293	Fractured gray laminated dolomite w/ breccia pod (photo) lamination N20E 80NW el 1977 (1980b) N 37° 13' 33.1" W80° 09' 01.1"
ESN353 WP294	lge oc of dol breccia at el 2024 (2040b) gray and yellow stained w/ white 2ndary veins Photo.
ESN354 WP295	Limonite breccia ore bank Ocs (Photo) at el 2140b N37°13'32.5" W80°08'58.2" SPL OF ore ESN 134 Ore bank appears to be limonite & yellow ochen with carbonate dissolved away v 10' thick buff dozed below
ESN355 WP296	@ 2320b el 2187 GPS N 37° 13' 30.7" W 80° 08' 55.0" 15 foot ledge of light gry, med-coarse qtzite or metagwke

Item # 033-3

NOTES 11/12/07

ESN335	Thick-bedded, closely jointed (2-3') creating < block field ~ 75 by 300' below.
ESN336	Thk bedded gray qtzite
WP297	ledge N45E 20 SE 15-20' thk 2334 el (2370?) N 37° 13' 30.3" W 80° 08' 53.0"
WP298	N 37° 10' 18.7" W 80° 08' 41.0
ESN382	Coarse pebbly quartzite light gray to white thk bedded ledges 60' thick section on slope. strike 300, dip 30 SW
1826	2870 Flat iron shaped OC 20' high by 75' long 300 (N60W) 15 SW massive bedded qtz ss
ESN383	EW, 25 SE broken ledge
WP	pink weathering med-cg qtz ss off set on joints OT? Joints N 30E 65 NW
ESN384	el 2685 N 37° 13' 08.4" W 80° 08' 59.6
WP299	20' thick gravelly ledge N20E 12° SE
ESN385	el 2600± N
WP300	lower 20' ledge crosses spur ridge N35E 38 SE white-lt gy med to coarse pebbly grit N 37° 13' 07.6" W80° 08' 57.5"
ESN386	3' ledge med-cg qtz
WP301	Wacke. N 37 13 12.1 W 80 08 09 03.4
2276	N 70 W 25 SW N40E 3056

2280?

11/14/07 @ 2224 WP 206 N 37° 13' 11.3 W80° 09' 04.5"

Day Runner

NOTES 11-12-07

ESN327	Rubbly ledge in logging road
el 2000 ft	at WP 302 el 1958
302	N37° 13' 16.6" W80° 09' 11.2"
ESN328	Photo of Terrace gravel
WP 303	17 deep clay cut el 1758 ft
2099	N 37 13 [illegible]
	W 80 09 8.0
11/14/07	
ESN329	el 1976
WP 305	N 37 13' 18.3"
	W 80° 09 15.8"
	oc of qtz vein
	N80E 30SE bedding
	parting in saprolite
ESN330	3 ledges of greenish gry
WP 306	dolomitic mudstone
el 1977	290 (N80W) 64 NE
	N 37° 13' 38.6" W80° 08' 33.4"
ESN331	ledges of red and yellowish
WP 307	brown mdsn w/ gry
	and yelowish dolomit
	N80W 80 NE photos
ES	N 37° 14' 35.1" W80° 08' 36.7"
	ledges below RR bridge
	Rep jointing N30E ESNW
ESN332	Ledge of massive-thick
WP 308	bedded dk gy-blk
1190	xline dolomite N60E 30NW
	N 37° 14' 31.2" W 80° 08' 36'
ESN326	Folded N80E 30 NE
WP 309	sh/slate + mdsn
1245	N 37° 14' 29.3" W 80° 08' 36.0"
ESN327	Ot contact dol, bk mds.
WP	lt gra + gy arg. N80E 78SE

Item # 033-3

ESN 327 Karst

NOTES 11-14-07 cont'd

WP309	Dol Massive cliFF w/cave
WP310	el 1480 N 37° 14' 26.6
	W 80° 08' 36.5 photo
	of cave is /dol
	beds dip NW
	N60E 30 NW
ESN308	Cliffed out by Massive-
WP311	thinbedded mudsn/dol
128	w red sh N80E 30 SE
	at bend - first island
	Shelter Cave along river
	N 37° 14' 24.8" W 80° 08' 36.1"
ESN329	Thin bedded red mudsn
WP312	grn sh + dol ~30-50 cliff
WP313	EW strike dips 65 N
	N 37° 14' 20.2" W 80° 08' 37.7"
ESN3210	Massive Dol Pinicle 50' high
	150' long 20' wide sticks
	out into valley Sound
	by bedding N 80 E 20° E
	and joints EW 80 N
ESN3211	Large blocks in river
WP314	15 X 15 joint spaced
ENN 3210	N 37° 14' 24.9 el 1619
	W 80° 08' 41.4 Caves
	on bedding planes
	A B
	above
ESN3211	Massive dk gry xline Dol nodular
WP315	285 vert N 37° 14' 22.5"
	W 80° 08' 41.9"
ES3212	Red argillite in stream 290 64 NW
WP316	N37° 14' 09.3" W 80° 08' 40.8" el 1141 about 100' above trail

Day Runner

NOTES 11/14/07

ESN323	Yellow Sh sap N60E 24SE on road bank
WP317	el 1432 N37°14'13.3" W80°08'49.8
ESN357	Grn Sh/phy sap on road/pipeline row
WP318	N 37°14'07.6 W80°08'47.0 el 1580
ESN358	Red and grn arg. + slate
WP319	N 70 W 60NE
1420	N 37 14 09.1 W 80 08 49.3
ISOO6	
ESN359	Grn + Rd arg + slaty sap
WP320	N 70 W 55 NE crenulated
	N 37 14 01.7 W 80 08 53.5
ESN360	Clearing and Yucca = house
WP321	site road curves to NE
	dolomite bed N 80 W 60 SW
	N 37° 13'55' 0" W 80° 08'55.5
ESN361	banded Rd in stm bed
WP324 rpt	N 70 W 65 SW 50' alluvial plain
	37 13 52.1 80 08 56.7 el 1592
ESN362	Yellow + grn slate/argillite
	N 40 W 65 NE
WP322	37 13 53.2 W 80° 09'05.1"
	1587 on pipeline at powerline
ESN363	Met hunter in stand
	sh/ph N 55 W 62 SW
WP 323	N 37 13 47.4 80 09 10.4
ESN324	N 78 W 75 SW yellow weath
WP325	phyllite targ sap in cut
	N 37 14 24.1
	W 80 08 59.1

Item # 033-3

NOTES 11/16/07 last day of BP

ESN63	12 el 2960 topo Fine gray laminated ash/tsn w/ fine sand layers, slaty cleavage chlorite mtx
ESN 6318	el 3000 6 N70E 60SE dk gm gray phyllite saprolite in road bank
ESN6319	Road switch back at 3120 6 much chl sch/slate flt, a few spheroidal basalt bldrs in regolith. Power line on spur above block SS-qtzite debris foliation from ledges on slope above switchback, below Powerline
ESN6315	el 2850 6 more basalt bldrs in slaty regolith along drag road
ESN6316	el 2600 topo N70E 66 SE Thick, medium grained meta ss ledges in pine woods
ESN6317	El 2550 6 ledge on hill spur above ck N50E 40 NW med gr meta lithic ss. Ang. talus blks fill valley below
ESN6318	E2550 6 saddle with continuous coarse augen gneiss (Ybc) Float above stream
ESN6319	Coarse leucocratic saprolite brecciated boulders along rd
ESN6320	Coarse augen gn (Bottom Crk) N60E 35SE spaced cleav across granulitic foliation

N 70E 15 NW

Day Runner

NOTES 11/16/07

ESN6321	el 2880 b coarse augen gn Flt proto mylonic some b/ack bdsalt blds on road (dike?) or sill
ESN6322	el 2960 100' above breakin slope Fine gravel N soil blders of coarse lithic cgl
ESN6323	at el 3120 below powerline spaced clear or joint? pavement 310 25 NE Mod gr meta graywacke semi schist - S
ESN665	coarse gtz ss or grit w/ 1" quartzite pebbles N60E 50 NW - Foliated Saprolite large ledges above on powerline
ESN6324	N50E 30 NW massive ledge lt gray cg gritty gtz el 33006
ESN6325	el 3350 abdt flt gray lam meta siltsn semischist
~~ESN6326~~	~~N15E 60SE gray arg, silt~~ OC
ESN6327	On powerline at el 32306
ESN6328	Basalt ledge on Powerline
R-8788	el 3215 b N20E 40 SE spl

Item # 033-3

RIP John Marr

NOTES 112907 RICHMOND REV

LS GASTON

Stop 1 Progradational gravel Fine Gravel estuarine environment

TTU Tertiary Gravel / Upper Chas. GP

el 121

N 37°34'53.3"

W 77 23 26.7"

Peagravel bp

Clay Silt ss

w/ burrows

Flaser

upper Ch

Yorktown

lower Eastover Big Burrows

Oakwood

STOP 2 CEM

Eastover 066ks

covered by Bacons

Castle - clast size

Joints in Eastover

NS and NE SW

Photos WP 326

el 126 N 37 32 13.4

77 23 40.7

N60E 75 SW

stp 3 Chimbarazo Slide

Viewing TG 1 - 1

From Bacon Castle

stp 4 Hadds Mill. Paleocene

Eastover Lower Tertiary

Aquia 20-30 glauconitic fine med sand, cobbly at base

No Scolites

Day Runners

NOTES

Top is Burrowed above
is Eastover Cly sand
–

Stop 6 Shirley Td along James
into an Cretaceous
Confined
sheet like Fluvial
Sands w/ cross beds
High Terrain off ridges

Stop 7 May incorrect Base of
Section Green Sand
lower tertiar –
Tbc – Windsor Td
prob Qtg 4 alluvial
fans – none terrace
like Eastover /
Aqua

STOP 7 Bryant Park
Petersburg – Fall line
Old Richmond Granite
Quarries – Paving Stone
Dikes Joints
Upland Brook – Chickahominee
Creek WP 327
at 240 N 37 35 51.0
477 28 05 T
Med grained gray
foliated biotite gran

NOTES 11/30/07

Stp 1	Eastover Ph 2-3 Concrete
el 267	N 37 36 27 7 W 77 21 49.7
WP 329	pebble line - sandy joints
STP 2	Bides Mill - Yorktown Standon Manor - WP 330
	N 37 37 17.6"
	W 77° 14' 56 8 el 104
	mid section, small pebbles lacks heavy clay not a fencing topsoil sy
	Iron stained coarse sand with some nodules
Stp 3	Gaines Mill Battle Field
	WP 301 el 232
Turker Hill	N 37 34 26.6 W 77 17 26.5
Stop 4	Turkey Hollow Borehall Eastover Scarp Gdoler way
	WP 302
	Yorktown / Eastover
	QTG 4 Windsor Id
	N 37° 33 49 0
	W 77 16 12.2
	Groundwater / Foundation
	Septic Problems

Day Runner®

NOTES

STOP 5 Yorktown/Eastover lower gravels
sed structures
Fluvial TCS of
Scour Channels
near Carters Mill
4 – 7% heavy minerals
WP 333 of 82 120 ft
N 37 33 34.2
W 77 15 06.7

Heavy mineral trend

STOP 6 Lower Ches
Bacons Castle Pit
WP 334 of 82
N 37° 32' 12.8"
W 77° 15' 53.2"
exposed Yorktown/Eastover
1506
Bourne Pit by pond s, t, f
4' Bacons Castle
6' Yorktown
10' Eastover

Bacons Castle Plio

Mio

STOP 7 Spillway of Dam 0150
N37 31, 718
W77 22 220

NOTES Arnold Valley Field

1) Parkers Gap Leucogneiss
WP336 37 32 152
79 31 288

1a biotite Fels

2) WP 337
N 37 82 333
W 79 33 233
augen gneiss Cgrn
mtl = Peaks Pluton
photo of med grained
granulite gneiss

3) WP 338 1645
N 37 32 288
W 79 34 267
coarser layered granitoid
higher mafic content
than finely layered
granulite ?Iggy

4 Stop 4 Chilhowee
Unconf. / Hampton
N 37 33 360
W 79 34 183
lower volcanic pile
overlain by metagraywacke
meta siltstone

Day Runner®

NOTES

Stop 5 WP 340	Childowee Unico phyllite cooling cleavage N 37 32.661 W 79 36.182
Stop 6	Cuv — in creek
Stop 7	Small horse N 37 31.685 79 37.501 geen
Stop 11	Harpers / upper Unicoi
stop 8	Middle Ptzite Snodon N 37 21 296 W 79 37 486

Item # 033-3

NOTES

Buchanan / Arnold Valley

1) Saltings Mtn Erwin/Shady

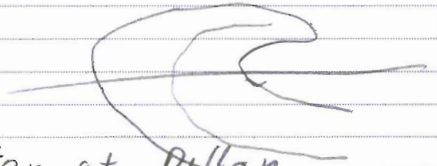
2) Overview Arnold Valley

3) Clearwood Furnace Shady breccia below Blue Ridge Fault

4) Burrowed Is in Waynesboro best burrowed Is seen

5) Well developed Folded axial plane cleavage in Elbrook on Road

6) Quarry in Oln or Oth



7) stop at Dillon

a/t discussion of Fault crossing river From Quarry

Harpers phyllite ap 38

37 32 379

79 37 833

Day Runner

NOTES

Item.# 033-1

Bent Mtn Frost 1541 Laurel Creek

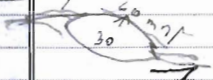
NOTES

FROST FARM 1541 LAUREL CREEK ROAD (SR631)

12/12/07 ESN 941 N 70E 70 SE
Coarse biotite gran gneiss w/ mylonitic foliation, massive weathered OC along road pink granitic stringers very coarse feldspars

12/12/07 ESN 942 N55E 42SE
LWP Schistosity in very sheared mylonitic gneiss protomylonite
Cross cutting slip cleavage N85E 65 SE Crenulation lineation N 75E 25NE w/ some stretched porphyroclasts

WP @ 44 ESN 943. Coarse Granitic
e 1055 N 37 08 · 430 gneiss
W 80 09, 750
light gray, leucocratic Feldspar porphyro clasts



Foliation N50E 55 SE
Spaced cleav N40E 80SE
lineation 15S 55 SE

WP345 DRY SPRING W/ concrete
N 37 08.36 enclosure (PHOTO) CCC
W 80 09.787 Obvious channel in bedrock
ESN 971 coarse granitoid
WP 346 gneiss wide spaced joints
37 08.267 leuco veins N40E 80NW

80° 09.960 MAFIC dike N 70 W 75 SW chl zn

Day-Runner

540 - 929 41 32

NOTES 12/12/07 Ellston

WP	ESN 971 coarse gray
346	augen gneiss (Bottom Ck)
N 37 08 27	N40E 55 SE Mylonitic ESN 972
W 80 09 741	foliation
WP347	ESN 973 N10E 70 SE
N 37 08 206	Mylonitic foliation
W80 09 632	coarse YBC augen gneiss
	Ledge in creek
WP348	ESN 973 N35E 50SE
12/13	Rounded ledges and
37 08 181	blds VCg YBC augen gneiss
80 09 826	(Charnockitic Gneiss)
	of type bottom Ck

Item # 033-3

11/7/08

WP 262 ESN 392 reduce
top Volc el 1605 @ N 37 13 18.6
W 80 08 03.3

WP 262 ESN-396 ESN el 18706 1862 tops
coarse fragmental, vesicular
gray grn pyroclastic along Rd
N 37° 13' 07.0" W 080° 07' 59.5"

WP263 el 18506 thin lam meta
slfsn a Fine gray SS N90E 70SE
N 37° 13' 08.7" W 80° 08' 00.3" 1964

WP 264 el 17006 massive slaty cleav
isiculated flow top weathered
reddish grn cleav N 75E 30SE
el 1703 GPS N 37° 13' 18.8"
W 80° 07' 59.9"

WP 265 el 1560 lege in Stream
dk grn - gray SS
N 37° 13' 19.6" W 80° 07' 55.4"
e 1809

WP 266 el 1665 b
Vesicular Flow to Float
massive green ledge N80E
35 SE N 37° 13' 17.1"
W 80° 07' 55.1"
el 1916 GPS
WP 267 el 1940 b
N 37° 13' 01.8" W 80° 08' 00.08
1/18/07
ESN 364 rdy Anticline in Rome
N80E 16 SE
WP 268 N 37 13 47.1
W80 07 57.1
ESN 365
WP 269 el 15006 ESN 365
N-37 13 40.0 W 80 07 54.9 1588
Coarse pebbly ss debris - blders
up to 3' along chute, some fe mg dre
ESN 366 el 1730 b colluvial
cover on levees along chute
consists of cg egl, pbl ss
Some dark sh fragments in
chute below. Chute still 75'
wide v 15-20' deep, a major
slide event w/ 24" Chestnut Oak
in middle WP 270 el 1833
N 37° 13' 40.6" W 80° 07' 48.1"

11/8/07

ESN 367 el 1900 b 1907 cps
N 37° 13' 36.5" W 80° 07' 46.2"
2' ledge of light gray medium-coarse Met quartzite of impure (wacke) composition
w gray to milky quartz (75%) pink-yellowish feldspar ~15% dk gray slate fragments ~5%
granite frag ~5%
sand up to 5mm (lithics)
bedding N 30 E 20 NW
jointing N 80 E 65 SE
spacing ~ 1-3' N 40 W 320 87 NE
Spheroidal wea Above (10') N50W 50NE
ESN 368 el 2100 b WP 271
WP 871 el 2057 N 37° 13' 37.7" W 80° 07' 42.7"
ledges of spheroidal weathered coarse lithic metaarenite ~4 lft
N50W 20 SW
ESN 369 el 2400b WP 272
el 2165 N 37° 13' 40.0" W 80° 07' 32.6"
boldrs of impure brn weath ss with angular quartz, dark gray lithic fragments, clayey mtx w/ foliation very impure wacke stone parent. Angular to sm gravel lags

BMT 1410
11-8-07 WP 273 el 2576 2500ft
N 37° 13' 38.4" W 80° 07' 19.8"
cut bank on road - thinbedded-
laminated qtz rich silt and
fine sandstone saprolite. N70E 1
BMT 1411 WP 274 N 37° 13' 32.0" W 80° 07' 18.1"
Ledge forms pavemen N 65E 22NW
Med to Fg light gray to tan med
ss ~ 5' thk el 2660ft 2520ft
BMT 1412 WP 275 el 2785, 2940ft
Pavemat Oc eg metass cgl
w 20mm rounded pebbles (dol or volc?)
& white qtz clasts in coarse
lithic ss mtx
N 37° 13' 26.5" W 80° 07' 04.1"
Steep Foliation EW 62S
possible dip slope
on pavement.
BMT 1413 WP 276 el 2916 3030ft
N 37° 13' 24.1" W 80° 06' 58.7" qtz
ss ledge along road ~ 4' thk
apparent dip N30E 16NW
BMT 1414 wp 277 el 3129 el 3160ft (Nearly Flat)
N 37° 13' 20.9" W 80° 06' 55.0" 120' corr ~ 100
apoint where power line crosses ridge
ss lt gy-white med-Fine med N30E
bedded. Feld ~ 30 qtz 50 mtx 20 5NW

11-8-07

BMT 1715 el 2990b ledge crosses road, ss lt gry med fg impure qtzite } WP 278 S120 N 37° 13' 11.9" W 80° 06' 50.9"

BMT 1716 el 2910b WP 279 (S139) N 37° 13' 06.7" W 80° 06' 55.4" ledge crossing road ~ 4' thk cgl w/ meta qtz ss

BMT 1717 coarse ss ledge forms pinacles along rdg - X beds N 50W 42 SW bed N 30E 15 NW ?? ≈

WP 280 el 2838 N 37° 12' 56.2" W 80° 07' 04.0"

BMT 1718 el 2260 b road crossing big ledge large bear scat ledge ~ 10' gentle dip NW pos cross bedding, black tam qtzite No signal

BMT 1719 el 2810b 2864 abs WP 281 N 37° 12' 46.3" W 80° 07' 24.0" qtz ledge w/slicks on bedding bedding N 45 E 25 NW slicks plunge S10 at 25 movement up to SE

11/8/07

ESN 669 redux el 2780 6 WP 282
N 37° 12' 29.9" W 80° 07' 42.8"
el 2900 -

N 45E 22 NW rippled or gently folded qtz ss bed top med - fine w/ pink to orange weath ortho Feldspar, opaque. qtz cement, breaks across qtz grains, large opaques (1-3mm) rotted out in Vugs

ESN 634 redux N50E dist foliation in chlorite? weath brn phyllite bmpy text looks pyroclastic el 2860 6 phyllite Float
GPS 2887 N 37° 12' 18.0" W 80° 08' 01.8"
WP 282 - Possible Fault?
pyroclastic unit in rock 6/6 has 3/8" phenocrysts

ESN 636 redux el 2930 WP 283
2803 N 37° 12' 19.2" W 80° 08' 05.0"
pyroclastic layering or Flow bndr
EW 10° S base of lower Flow

ESN 637 el 2730 6 green chl phyllite
N 10E 30 SE WP 284 (2706) N 37° 12' 25.8" W 80° 07' 52.7"

11/8/07

ESN 3916 redux e/ 2380 ft

WP285 N37 12'50 W86 07' 40.8" 2360 GPS

Photo of folds below basalt syn

23 SDO

NOTES 12/14/07

WP 349	ESN 944 WP 349 N 37 08 6 78 W 80 09 857
	Large angular blocks of lower unicoi cgl ss / qtzite on knob by cabin el 2061 el 2648 6
WP 350	ESN 945
	Foliated sap in bottom of backhoe pit ~ 3' soil then 2 - 3 granular gray + white sap foliat. N60E 45 SE
	el 2604 N 37° 08.640 W 80° 09.865
	Sap contains pink grain stringers
	ESN 946 el 2580 6 ocs of slaty cleaved, siliceous chl phyllite above badly cleaved OT qtzite ledge on hillside N40E 75 SE
	Foliation on OT ledge clear in phyllite N40E 85 SE
WP 351	N 37 08 .677
	W 80 09 .947
	ESN 947 Thk bedded qtzite ledge, lite gy - white f-mg; ~ 20' wide bed. N 45 E 60 SE X bedd. N 70 E vert
WP 352	N 37° 08 .684 W 80° 09.917
	el 2559 el 2590 6
	about 50 paces combined SS & OCS 125' along road before ridge crest

NOTES

12/14/07

WP 353 sister in grotto / white qtz ↔ w/ qtz tension veins photo ESN el 2685 2600 N50 45 NW
N 37 08.709 W80 10.006

WP 354 ESN861 (ot)
N70E 60SE gry - redish brn weathered - cg lithic meta arenite w ot cross beds (photo
N 37°08.735'
W 80° 10.043'
el 2611 2600

Succeeded by dark gray phyllite in turn tight folds rsu sense hinge plunges S60W 2 to 5 NW

WP 355 ESN 862 at turn gray fg lithic m-ss N45E 60NW thk bedded spheroidal weath
05 N37 08.752
W80 10.070
crest of hl on road 2610

WP 356 ESN863 N37 08.748 W80 10.206
N45E 30SE poss. Foldhinge
steep NW dippi N60E 40NW
impure qtz ss el 2743
el 2620

Item # 033-3

NOTES 12/14/08

WP358 ESN 864 N 37° 08 787' W 80° 10 344'

ESN864 N50E vert foliation/bedding in thinbedded meta sc/phyl Section, prior to true slaty phyllite below 2690 6

WP 359 ESN 805 N37° 08.907 W 80° 10.208' ESN805 medium gr med - Fine bedded SS N51E 45SE el 2719 el 27406

WP360 ESN966 Fold hinge (photo) in thk bedded meta grywacke/graphite chl phyllite sequence plunge 24S to N 37° 09.049' W 80° 10.240 el 2749

WP 361 ESN 831 el 2790 6 Fold hinge 1' cgl layer in lithic ss Section N 70E 25 and N 45E 42 NW hinge plunges 540W 10SW

ESN 832 WP 362 el 2860 6 el 2970 N37° 09.234 W 80° 10.394' WP362 Assymetry to SE

hinge plunges 5 to W at 20 N45E 70 NW

ESN 833 WP363 N 37° 09.216 W 80° 10 N40E 75' white banded quartz vein bed, slides on bottom of hinge around corner NW limb N35E 65NW

Day Runner

NOTES 12-14-08 ctd

ESN 833	qtzite is repeated on NW limb N35E 65NW
ESN 834	Upper cgl ledge of Unicoi across road 100' E of
WP364	BM 2761 el 2810.6 (50') off N 37°09.209 W 80°10.710' beds N40E 38SE
ESN 835	N55E 66SE coarse pebble ledges in stream
el2765	at WP 365 N 37°09.208 W 80 10.724
ESN 836	Ledge of white qtzite in
WP366	road N65E 28SE N 37°09.334 W 80°10.834' el 2772 Ledge above road N55E 10SW
ESN 837	Spring near contact between
WP367	upper and lower Unicoi units N45E 10 bedding in brown weath metawacke N 37° 09.912 W 80°10.848 cleavage - spaced N35E 70SE
	Spring is 2" iron pipe from concrete filled Fissure. In to 24" galv. culvert set on End
N40E vert down to SE at 140°	just beyon spring are N90E vert Frac in pebbly gtzarenite ledge - N slickensided (photo) down to SE @ 140
	contact just before bridge

Item # 033-3

NOTES 12/14/07

ESN621	Ledge of qtz pbl ss crossing
WP368	road el 2932 2980b
	N 37°09.822' W 80°10.821'
	Joint face 11 road N20E
	15 SE bed top N70E 18SE
	max dip on top ledge
ESN838	WP 369 N37°09.966' W80°10.817'
	FINE white sap of fine ss
	N20E 45 NW cleavage is
	el 2926 3020 B
ESN691	N65E 32 SE coarse qtzite
	ledge along road just
	above junction. WP 370
	N 37° 10.037' W 80° 10.530'
	el 3058 N55° 38° SE at top
ESN681	Ledge of coarse cgl ss
	in road bank
WP371	Photo @ N 37° 10.044 el 3185
N70E	18SE bed W 80° 10.885
ESN682	WP372 el 3220 b 3197 GB
	N 37° 10.376 ledge of
	W80° 11.055 jolly beam
	cgl across road N45E 15SE
	bedding plane parting in
	OC
12/20/07	Ice on Mtn
ESN 561	el 3850 b 3795 GB
WP 373	N37° 11.211 W80° 09.791
Large	(6') blk sdy coarse qtz
	sandstone or meta qtzite
	Ledge at 3800' b FSN 562
	N 55 E 22 SE
10'	light gry - white cg qtzite

Day Runner

NOTES

12/20/07
ESN 562 contd el 3763'
WP 374 N37° 11.251 W80 09.838

WP375
ESN 641 N 37° 10.820' el 3853
W 80° 09.770' 3940ft
coarse grit or ss sup.
N55E 25 SE bedding?
near steel railroad

WP376
ESN 642 coarse grit/w rnd pebbles
N55E 25 SE white qtz dike
cleavage? N55E 65SE
el 4003 N 37° 10.718' W 80° 09.914'

WP377
ESN 591 - N37 10.608 W 80° 10.063
3918
3940ft
great view of Buffalo mtn to SW

ESN 591
clean w/slicks N52E 52SE
10' ledge across road
slicken sides plunge 16° to SE
hw up
dark gry phyllite
below w/stp cleavage
photo of slicks
photo of phyllite
N15E 62SE
This must be Harpers
so uniformly dark

WP378
el 3712
ESN 592
N 37° 10.487' W 80° 10.207'
OCS of coarse ss ledge
large blocks to
West side of trail
orange clay soil on
trail - Fe?
good view of Hanging Rock area of Lewistown Mtns
270
245
orange sh/sap in road below

Item # 033-3

NOTES 12/20/07

WP 379	ESN 593 Block field on
el	gentle knob as predicted.
3768	qtzite residuum along ridge
3670b	N37°10.499'W 80° 10.367
WP380	ESN 594 - qtzite ledge N 20E 47SE
el 3742	N 37° 10.262'W 80°10.368'
	photo. Thin bedded meta
	slts n/phyllite oc in road 75'
ESN 595	to S. N 10 E 80SE
WP 382	el 3583 N37° 10.262' W 80° 10. 745
WP383	ESN 596 cg pebbly qtzite
	white to brnish gray ledge
	E-W (270) 22 S across road
	N 37° 10.200' W 80° 10.348'
ESN597	cg pebbly ledge N 30 E 75SE
WP384	on hill point @ N 37°10.092,
	el 3563 3580 b W 80°10.316'
ESN	Qtzite ledge crosses
899	powerline N45E 35 sethk
WP385	wht/brn,sh gy pebbly ledge
el 3500	N 37° 10.001' W 80° 10.346'
ESN 598	N 35E 75 SE but thin bedded
	Harpers metaslt sn W N 20E Vert
	cleavage ⊥ and bedding relations
	indicating tops to SE
	N 30 E 30 NE cren lin
ESN 599	Ledge of cg qtz ss
	w/pbls in road
	N
ESN 600	NS 65 E thin bedded
WP386	Harpers meta silt sap
el 3310	pink/yellow photo
3320b	N37° 10.067' W 80° 10.077'

View to S all Harpers on S lobe

Day Runner

NOTES 12/20/07

ESN 5 cl contact w/ Chur Cld
WP 387 N 37° 10.602' W 80° 10.062'
el 3774 3960 ft dip slope
strike 320 20° SW

ESN 642 N45E 75SE clear
WP 388 10 gray/tan phyllite
el 3762 N 37° 11.218' W 80° 9.650'
bedding dips NW on cleavage eqv N40E 70NW

1/09/08 Clear windy warm
ESN 643 low lying coarse reddish brn weathered SS OC in road N20E 2 NW
el 3800 ft

ESN 644 N20E 10NW
WP 389 thin bedded gray-grnish gry meta silt- / argillite stg
N 37° 11.678
W 80° 09.607 el 3708 (3700)

ESN 645
WP 390 DK gy-grnish gry meta grywke
N 37° 11.67' sltst sp1
W 80° 09.67' N 35E 70SE Slaty Clvg
N55E 17 NW Bedding
photos of new road
No erosion controls
el 3650 ft

ESN 646 Coarse gtzite block field in
WP 391 drainage ~ 300' wide at
N 37° 11.285 el 3550 ft 3500 ft photos
W 80° 09.515

ESN 647 N40E 60 NW ~ 20' thick SS
WP 392 med gray - med - cg
light grey weathering

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NOTES 1/08/09

	Day timer Refill
FSN648	Calender el 3437 34006
WP392	N 37 11.347 W 80 09.344
FSN648	Photo of blackfield at el
WP393	33306 N 37 11 345 W 80 09 316
FSN649	outcrop of gray laminated mssn
WP394	N35E 56 SE el 3315
N 37°11.353' W 80°09.285'	
FSN658	Ocof ltgraish grg meta s/sn/
WP395	phyllite N 50E 34 SE cleav
N 37°11.376'	N 50E 65 SE el 32006
W 80°09.159'	road switches back to
	log landing.
FSN659	N 40E 80SE slaty cleavage
WP 396	in ltgrn -grnish sy chl
N 37°11.368	phllite in creek bed
W 80°08.871	el 3040 6
FSN651	N50E 80SE dk gy - grnisgy fine
WP 397	slaty cleaved argillite lodge
N 37°11.374'	el 31406 (lower Unigoic
W 80°08.855'	pyrite, much chlt in
	mtx, qtz veins
FSN651	bldrs, round, dk grn
WP398	granular meta basal w/
N 37°11.329	Yellow grn epidote angulr (0-3mm)
W 80°08.772	el 31906
FSN 6512	Meta qtzite, pbly lt gry - grnish
WP 399	gry coase grained N 55E 80NW
N 37°11.296	strong cleavage N50E 70SE
W 80°08.692	el 3250 b 3296 GPS
FSN651	Flt of cg arkosic meta arenite
WP400	very angular, White matx
	Stong topo expression

Day Runner

NOTES

ESN 6514	N 50 E 55 NW ledge of qtzite
WP 401	above gray metaargillite
N 37 11.350'	
W 80°08.650'	el 3227
ESN 6515	Red clay soil profile
WP 402	begins at turn of
N 37 11.163'	road - bottom of Eu bldg
W 80°08.532'	el 3068 Eu bldrs in soil
	all the way down to valley
ESN 6516	Massive ledge of breccia or
WP 403	meta conglomerate lt
N 37°11.152'	gray coarse feldspathic
W 80°08.67'	meta arenite lots
	many pebbles
	N 30 E 85 NW el 3135
ESN 6517	N 35 E 70-80 NW thin
WP 404	bedded, lt-gra, meta
N 37°11.272'	s/tsn + argillite in road back
W 80°08.756'	just before gap
el 3227	
ESN 6518	by dear Tower el 3352
WP 405	metaargillite, fg qtzite
N 37 11.120'	flt the whole way
W 80 08.756	from last stop
ESN 6419	Ridge seems held up by
WP 406	fine wh-te qtzite or s/l.
N 37°10.980'	s/t sn. weathers lt gry to
W 80°08.26'	white thinly layered chips
	in soil el 3418
ESN 6411	WP 407 el 3534 Eu scl bldrs along
N 37 10.934'	trail at break in slope
W 80°08.256'	

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NOTES 1/09/08

ESN 673	N 30 W 30 SW coarse
WP 408	SS, med-thk bedded
N 37°10.814	ledge along ridge.
W 80°09.270	coarse gritty pebbly cgl
el 3512	
ESN 674	Prominent Topo ledge form
WP 409	~5-6' high along ridge
N 37 10.677	el 3679 6 → 3810
W 80 09.43	
ESN 675	Prominent to ledgeform ~10'
WP 410	high N 40 E
N 37°10.687	el 3791
W 80°09.477	
ESN 676	Hampton gry argillite + spheroidal
WP 411	weat SS N 20 E 70 NW
N 37°10.729	oc in road bed a Gove gtz ite
W 80°09.529	at el 3787
	Then Pavement N 65 E 20 SE
	coarse pbly meta cgl
ESN 677	
WP 412	Thin lam silic SS+ Hamp
N 37 10 749	fine SS N 30 E 20 NW
W 80 09 592	el 3770 in road
1/9/08	clear breazy
ESN 677	Oc + Photo Med gr thk bed
WP 413	lite gy-tan SS beds N 55 E 6
N 37°10 651	Cross Beds ~ Vert base of
W 80°09.386	upper 4 micac
3656	36506
ESN 678	OC of lt gry-tan weath
WP 414	thin bedded, fg siliceous SS
N 37°10.60	+ fine SS. Photo bedding
W 80°09.37	el 3610 b N 30 E 55 NW
el 3600 b	fg spheroidal SS Ocs N 30 E 45 NW
	66 SW

Jt 310

Day Runner®

NOTES 1/11/08

	ESN679	Coarse gry qtz pbly ss Float
		on road in saddle area
	ESN6710	Some orange ocher clay
	WP	soil w/ shly chips in
	10	road at el 3560 ft
	ESN6711	Qc in embankment lt grey-grn
	WP 415	laminated chl phyllite
N	37°10.492	metagraywacke N 30E 68 NW
W	80°09.200	lamination cleavage Seattle See
	ESN6712	Blocks of very lt colored
		coarse gr pebbly white
		qtzite Float ~ 75'
	ESN682	along trail on backside
	WP 416	ock not then argillaceous
N	37°10.491	Chippy bleached
W	80°9.129	tan soil on road beyond
		N 40E 75 NW - pavement Sed
		lite laminated Fg ss + slf
	ESN683	Coarse lt gy - white lithic
	WP 417	ss Flt along road
N	37°10.419	to break in slope at
W	80°09.096	el 3663 el 3430 ft
	ESN684	Lt grey grn phyllite to
	WP 418	bak cleavage N45E
N	37°10.348	50SE el 3380 ft
W	80°9.107	bedding N 80E 75 in
		laminated lt gry grn
	el 3350 ft	chl pagllte - meta sltst
	ESN685	el 3280 ft Fine sugary qtzite
	WP 419	white with white veins
N	37°10.240	N 30E 60 NW possible build
W	80°09.058	Strongly shear zones
	ESN686	Qc 8" qtz ss bed in shly sltst
	WP 420	N 30E 35 SE el 3140 ft

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NOTES

WP 420	ESN686 Photo of Airport esc. N37 10.280 W80 08.926 el 3157
ESN687 el 3910	continuous matle of coarse sandstone Flt f breccia
WP	along this nose last massive SS-Cgl oc at powerline. Foliation N10W 35 NE in phyllitic sap above tower in roadway
ESN688	Coarse pbly bed
WP421	N45E 65SE or
N 37°10.283'	wit strong lineated
W 80°08.812'	fabric pbls plung S20W at 55°
ESN689	el 3100 6 orange plastic clay soil, ocherous meta basalt 6g/ls 2-3" dia just above 6gl ledge on powerline road
1/16/08	ESN6713 el
WP422	ledge of qtz ss - topo Form
N 37°10.585'	el 3720 and float
W 80°09.453'	on road bed.
WP423	ESN 6714 ledge on edge
el 3638	of elec N5E 20 NW
N 37°10.454'	massive qtz pebble
W 80°09.492'	conglomerate + course
WP424	lithic ss 3660 6. Powerline cut
3713	ESN 6715 ledge of qtzite/lithic
N 37°10.112'	m.ss N10E 24 NW ripple?
80°09.521'	300 at 19

Day Runner®

NOTES 1/6/08

	ESN 911	el 3645 ~ 3610 b
	WP425	broken cg gry qtz ss
N	37.10.034	ledge w/ white qtz veins
W	80°09.584	N20E 35 SE - spaced cleavage?
	ESN912	el 3259 pressure dropping 3700b
	WP426	broken ledge just above
N	37°09.937'	break in slope N20E 20NW
W	80°09.58'	estimated on flats
		NO continuous beds
		Knob is chl phyllite +
		some graphitic beds
	ESN 913	bg stable on ridge
	WP427	highly cleaved ledge
N	37°09.811	cleavage N45E 55 SE
W	80°09.944	el 3490 photo of what
	ESN 914	must be bedding N15E 40NW
	WP428	laurel Hell N40E 65 NW
N	37°09.826	thick bed of qtz wacke
W	80°09.258	el 3459 23 20 b cored at
		last stop
	ESN915	el 3284 (31806) Topo bench
	WP429	covered w/ cg ss blks
N	37 08 740	+ rnd blders up to 2'
W	80 09.160	
	ESN 92	N50W cleav N40E 50SO
	WP430	Coarse qtz pbl ledge SPI
N	37 09 679	- 5' thick or more
W	80 09 132	highly cleaved el 3249
		31406.
	ESN916	el 3411 33506 at edge
	WP431	of laurel - small x blks
N	37 09.844	N oc
W	80 09.204	

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NOTES 1/28/08 Clear, Very Cold

ESN982	N40E 45 SE lt gry fg ss w/ silsn chips
	Joints N40E 45 NW
ESN983	N80E 34 SE bumpy phyllonite or phyllite, lite green gray in road cut WP
WP 433	N 37° 08' 08" W 80° 08' 08.87'
ESN984	Pebbly grey m/ss, thk bds N 70E 75 SE
WP	434 N 37 08.015 W 80 08.960
ESN985	Moss Fol augen gn
WP 435	N 37 07.981 W 80 08.899'
	coarse protomylonitic bottom ck chk gn
	Foliation N 80E 38 SE
	joints N75E 51 NW N5 65W
	lin (fold) S 30W 30SW
ESN951	large Qz of Vcg granitoid
WP436	w/ 1-2" pclasts joints
N 37 08 [illegible]	N 60W 60SW, E W 35N
W 80 09 [illegible]	Alligned x/s N 35W 45SW
el 2531	Bottom QD Creek type bc.
ESN952	N70E 60 spaced cleavage
WP437	in Vcg granitoid (Ybc)
N 37 08 047	on point at Power line
W 80 09 967	el 2577
ESN953	granular tan (light brown
WP 438	saprolite, pink and green
N 37° 08 808	Pilot Gneiss chips then
W 80° 08.201	foliated sericite phyll
el 2699	thl phyllite or
2650 b	Phyllonite

Day Runner

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NOTES

ESN 9448	Foliated meta tuff, weath
	light gy to lite grn
	w/ rusty vesicular struct
	N 55 E 60 SE cleavage
ESN 949	Coarse chl semi schist/myl
	w pclasts of pink gran
ESN	250' highwall, foundations
9410	behind poultry house
	outcrops of coarse gry
	protomylonitic granitoid
	w 3/4 - 1" fold p. clasts
WP 434	joints N S 82 NE
N 37°09.985	N 60 W 78 NE green +
W 80°09.161	myl fol N 45 E 65 SE pink
ESN	+ 6' leucosome = Airpoint
9411	Brown clay loam - granular
WP 441	soil in saddle exposed
N 37°09.057	on old orchard benchs w/
W 80°09.191	orange Fold chips
ESN	dk grn chl bio sch w gran
9412	Fragments - sheared breccia
WP 442	N 70 E 65 SE Foliato
SPL	N 37°09.855 W 80°09.240
WE1	2792
ESN	
9413	
WP 443	
N 37°09.098	el 2891 cg myl augen gn
W 80°09.241	N 70 E 65 NW ledge 6' thick
ESN 911	Coarse white qtzite w vein
WP 444	N 70 E vert spaced cleavage EW 65S
N 37°09.117	el 2920
W 80°09.335	

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NOTES

ESN918	el 3017 3050 b 6' qtzite ledge
WP445	White to light gray
N 37 09.194	coarse qtz sand
W 80 09.396	Bedding N40E 12 NW
	Joints N10E 85 SE
ESN944	2937 el N20W 10 SW.
WP 446	Lithic ss gry + Lt
N 37.09.125	coarse sand and
W 80 09.259	x lithic fragments
el 2920 b	salt and pepper mtx
ESN947	15 WP447 el 2860 - 2830 b
N 37°09.060'	pile of 8" rounded cobbles
W 80°09.209'	Coarse ss derived From EW
	at old terrace level!
ESN954	Photos of perfect quartz
WP448	site in coase pink and
N 37°09.035	green augen gneiss
W 80°09.093	el 2783 2750 b
	mafic dike in creek and
	on SW wall of canyon
	Joints N20E 62NE EW 7+5's
	Foliation N50E 45SE lineation 125 10 SE
ESN955	N37°09.149' W 80°08.897' el 2766
WP 449	Blks + Bldrs of Coarse EW
ESN922	on ridge and blocks of Eutx
WP450	Breccia + cg gritty lithic ss
N 37 09 212	el 2789, 2950 b
W 80 08 939	
ESN923	Ledge of coarse lithic
WP451	ss or gray wacke
N 37°09.226	el 2885 or 2950 b NSS EASE
80°09.014	

Day Runner

NOTES 1/28/08

ESN956	Ledge of impure lithic lgst
WP452	w/ phyllitic mtx N70E 60SE
N 37°09.109'	
W 80°08.936	el 2999
ESN957	ledge of grit el 2615 ~28806
WP453	37°08.993' W 80°08.872
ESN958	By abandoned poultry operation
WP454	well site large blocks of
N 3708.982	mylonitic granite gneiss
W 8008.746	el 2679. 26806 Foi N70E65SE
ESN959	Vcy Pbc (Photos)
WP455	Joints NS 70E EW 70N
N 37 08 724	N70E 50SE Foliation
W 80 08 782	(oriented pclasts
ESN924	N60W 64SW Joint edges of
WP456	lt gry-grn unicol
N 3709834	meta stands tall on
W 8008602	Knob along trend of ridge
	bedding N75E 25 NW
ESN925	Big Spring beside house.
WP457	in qtzite blder field
N 37 09 796	
W 80 08 696	
ESN926	el 2849 Rim Rock OCS
WP458	on side of ridge qtzite
N 3709 662	ledge w/ gypsymoth eggs
W 8008 654	N30E 45SE N50W 80NE
ESN927	Unakite / granitoid spaced clevn
WP459	N30E 65 SE joints N70W 70 NE
	N55E 60 NW mn filed vugs

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cl 1813 N 37° 09.529 W 80° 08.569'

1 30 08

NOTES

ESN 928	N 80E 50S Foliated rx
WP 460	in stream bottom
N 37 09 4 09	lg cgl and grit blocks
W 80 08 9 0L	above
	Reg 6" spaced joints N5W 52SW
ESN 929	Ledge of Qtz pebble cgl
WP 461	w/ clasts of metamorphic rx + basalt N55E 65 SE
N 37°09.612'	Clearance N30E 39SE
W 80°08.991'	
el 2860	06906 N45E 55 SE mass spheroidal beats my bed
ESN 930	Unicoi meta cgl w schistose to gtzitic mtx L gtz and lithic fragments 60 70 dip SE 30' cliff behind barn
ESN 9210	2/04/08 Ellijay Quad Clear warm am - grn chl phyll (Um v) on road above house
ESN 9216	Coarse arkosic Mss on Flats ~ el 2860 much lam slt sn fit
ESN 6812	coarse gritty gtzite
WP 462	blder on knob
N 37°10.065'	el 2869 ft
W 80°08.673'	
ESN 6813	Qtzite + phyllite Float alng
WP 463	ridge at turn OC grag grn graph meta sltsn @ 30 27
N 37°10.152'	N60E 40 NW banded ss + slt
W 80°08.838'	w/ thin gritty ss layers

Day Runner

NOTES 2-4-08

ESN 6814	Blocks of white
WP 464	qtzite on roadside
N 37°10.160'	6" ledge N45E 60 NW @31806
W 80°08.961'	el 3149 3160 6
ESN 6815	Ochor colored argillite
WP 465	or chl phy saprolite
N 37°10.295'	some m. tuff br basalt
80°08.970'	with limonite filled
el 3300	amygdules fine grained
	feld spocks in yellow
	orage matx
	¢ UV sap
ESN 6816	Steep ledge ~3' thick cg
WP 466	qtz ss N35E 70 NW
N 37°10.358'	on N. slope in laurel Hell
W 80°08.779'	el 3004 3800 6
ESN 6817	Coarse meta ss ledge thick
WP 467	bedded white qtz granule
N 37°10.477'	gritty qtzite el 2840
W 80°08.756'	N10E 55 SE ledges in
	creek are dipping steeper
	to vertical. Ledge forms
	rounded ridge + valley on
	cross spur above
ESN 6818	Pilot gneiss OCs on hillside
WP 468	NS 78 NW N10E 34 NW
N 37°10.524'	260 70 NE
W 80°09.613'	2918
ESN 6819	Ledge of pink grgn (Pilot gr)
WP 469	jointing rectilinear ⊖
	240 85 SE 10 87° NW
	050 24 NW qtz bandings

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NOTES 2/4/08

ESN6820	Boxed spring along
WP46N	prop. Fault line at
N 37° 10	.358 W 30 08.519 3745 ft
ESN6821	Possible Dimension Stone
WP470	site N40W 78NE joint
N 37 10.332'	N60W 24 SW shear
W 80 08.382'	N75E 70SE joint
el 2761	
ESN6822	Pink granitoid gn
WP471	N10W 80SW close spaced
N 37 10 274	N40W 85 SW shear zone
W 80 08144	open fractures
el 2750	N80 45NW qtz mp bone
	EW 80N Joints
ESN6823	Highly sheared and foliated
WP6	green and pink granitoid gn
	proto mylonitic Float blocks in woods
ESN6824	Highly sheared and foliated
WP472	chlorite semischist w/
N 37 10 102	lithic Fragments limonite
W 80° 07 867	replacements of Vesicle
el 2849.	Fills - meta basalt or
	mafic - intermediate tuff
	Breccia N70E 83NW
ESN931	Andesite? gray chl schist
WP473	w/ hbd phenocrysts then qtz rich
felsite,	angular cgl above w/ qtz
	rich clasts then spheroidal
el 3018	weathering SS - N45E 88 NW
	N 37 10 057 W 80 08 056
ESN932	Pilot gneiss w/ leucosome / qtz stringers
	N30E 35SE comp layering
el 2993	photo @ WP 474

N 37 09 886 W 80 07 813

Day Runner

NOTES 2/4/08

ESN 934	N70E 35° NW
	mafic schist / tuff
2/05/08	ESN 935 WP476
N 37°09.274	el 2996 2660T
W 80°08.145	N40E 30SE spaced
	cleavage in sheared
	pink and grn granitoid
	gneiss
ESN 936	N40 E 20 SE
WP 477	Fracture cleavage in
N 37°09.154	sheared pink granitoid
W 80 08 326	saprolite el 2650
ESN 951	N 60 E 38 SE cleavage
WP 476	in coarse lithic
N 37 09 177	ss / w schistose (mylonitic)
W 80 08 489	el 2636 6 2762 GPS
ESN 952	Sheared augen gneiss gry
	w/ lt pnk / white Feld
	p-clasts to 30mm N45E 65
el 2590 6	
ESN 953	Photo of old pump
ESN 954	
WP 479	N10E 80 SE N35 W 80 SW
N 37 09 34	lineation 19 SOS
W 80 08 469	coarse pink and gray
	(sericitic?) granitoid gn.
	w/ bk hbd p-clasts
WP 480	ESN 955 N45E 47 SE Foliation
N 37 09 359	very angular qtz rich, coarse
W 80 08 467	feldspathic breccia,
	weathers redish to pink
	qtz clasts up to 1/2"

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NOTES 2/5/08

WP481 ESN 9516
N 37°09.440 blocks of coarse grit
W 80 08.478 and breccia
el 2922

WP482 ESN 9517 massive, coarse
N 37 09.427 black/white granulite
W 080 08.488 qtz, Feldspar black
el 2711 minerals - possibly chloritized
amphiboles blaky weathered
some rounded (resorbed?) grains

WP483 ESN 9518 el 2705
N 37°09.409 15-20' thick cgl ledge
W 80 08.533 1/2 inch feld clasts
N70E 30 SE - possibly
shallower dip as rim rock

WP484 ESN 9519 N80E 20°SE
ledge form crossing
peninsula

WP484 ESN 9520 OCs of coarse
N green and pink gran
37 09 25 augen gneiss by
W stream, large spring
80 08 506 house on cgl/gran Contact
2606 from Foliation N45E 12SE
(Tops of ledges)
Joint N5 80 E

WP485 ESN 9521 coarse cu ss/cgl ledge
N50E 20 SE Master bed?
N70E 55 SE x bed?

Day Runner

NOTES 2/5/08

	ESN485	OC of coarse molass w/qtz pbls
N	37 09 330	lithic Frag N 30W 20NE bed
N	10 08 761	cleavage N 30 E 70 SE
	el 2248	
	ESN936	N 70E 38SE compositional
	WP486	layering (gneissic
	2709	foliation in green and
N	37°09.567	pink gneiss OCs
	80°08.346	behind barn
	ESN937	Ledge of banded coarse-g.
	WP1	sandstone N 70E 39 SE layer
	487	
N	37 09.535	
W	80 08.341	el 2800
	ESN938	blder of coarse grn + pnk
	WP488	gran at el 29403
N	37 09 438	
W	80 08 206	
	ESN939	ledge N 70E 54 NW cg/uniform
	WP489	ss w/qtz layers
N	37 09 495	el 28&1 29480
W	80 08 268	hilltop bowl shaped
		w/ multi ledge
		forms on NE
		↓ N

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NOTES 2/6/08

BMT	746. Coarse grain gn w/ peg stringers
	N5 65SE Fracture Cleavage or
	Mylonitic foliation
ESN 96	Entrance to Stone Ridge
WP 490	at Bent Mtn Shaft
N 37 08.868	el 2654
W 80 07.602	Photo of Entrance and
	Dam which has trees
	growing on it
BMT	747 Sap exposure of sheared
WP 491	augen gneiss Y bg in
N 3708 972	culdesac at WP
W 80 07355	N 70E 75 NW qtz bands in
	Sap el 2743 MN filled joints
	N5W 30SW
BMT 748	Coarse augen gn Ocs
WP 492	N60W 85 SW N60 80 SW
N 37 08 926	N40E 33 SE
W 80 07 287	el 2716
ESN 96	B el 2706 Culdesac at
WP 493	end of Cobble trail
N 37 08 642	lot 26
W 80 07 702	
BSN 964	Mylonitic foliation in cg
WP 494	augen gneiss ledge
N 37 08 706	trends N70E 65 SE
W 80 07 779	el 2866
ESN 965	Mylonitic foliation in cg
WP 495	Y bg N60E 65 SE WP 495
4 608	MI 4 OR. 625 W 80 07.793

Day Runner

NOTES 2/5/08

ESN964	Imbedded fg SS + Sltst,
WP 496	phyllite Gap in road
N 3708582	basin 17 G5E 75 SE
W 80°07'772	Ful
ESN967	Greenish gry phyllite w/ clasts
WP001	typical Cocadle hat stks
	N 75 E 75 SE at edge
	of Floodplain
N 37 08 513	
W 080 07 715	
ESN968	Graphite slate/phyllite
WP002	w grits interbeds
N 37 08.478	el 2680
W 8007.593	
ESN969	Intesely sheared gno augen
WP	gneiss Blue gray w/ bio
	hy/text N 80 E cast
2/5/08	lin 5 30 E at 1 5 SE
ESN970	White to light gray
WP 003	leucogranitoid gneiss
N 3708733	With White pegmatitic
W 80 07.962	Stringers above bridge
el 2628	N 70E 52SE N30W 78 SW
	Comp layering Joint Set
	N40E 55NW Joint set
ESN971	Sheared Qtz Pebble
	Ithic clast Cgl
	N55E 60 NW
F	

Item # 033-3

NOTES 21/08/08

El	Foster 929 4132
ESN995	Gr Oc of Unica Phyllitic mtx
WP04	meta ss N60E 60SE Foliat
N 37 08 138	el 2725, laminated grey
W 80 09 065	phyllitic meta sltst towards base.
ESN997	Highly strained Proto mylonite
WP005	in shear zone at top
Contact	of basement
N 37 08 157	N60E 55SE foliation
W 8004 182	extensional mylonite zone?
	plunging 10° at 10 Sticks
	plunging N30 at 85 NE
	C cleavage E-W 80 S
ESN996	coarse lithic metadacrite
WP	OCS N 60E 55 SE
N 37 07 890	massive rhyolite body
W 80 09 202	reg joint N20E 60NW
el 2702	N70W 290 57SW
ESN997	N85W 85SW cg mgl
WP007	augen gn / proto mylonite
N 37 07 693	rude compositional
W 8009 596	layering
	Fracture cleavage N50E 65SE
ESN998	Large blks or pavement N30W 70SW
WP008	OCS OF coarse granite gn
N 37 07 772	(Ybc) My comp layering
W 80 09 367	N55E 65SE 2692
WP009	Outcrop (pavement in field
ESN999	Mylonitic gryn N85E 5a SE
El 2612	N37 07 8[illegible] W 80 09 8[illegible]0

Day Runner

NOTES 2/08/08

ESN 9710	leucogran gneiss, qtz
WP10	feldspar ting specs of pyx or hbl in granular/sheared mtx
	N55E 65SE foliation?
ESN 971	coarse augen gneiss —
N 37 07.352	mylonitic foliation
W 80 09.442	N 70E 75 SE
	qtz Kspar + bio + augite/ opx
e2857	B
ESN 97	12 Big ledge bio myl
WP11	augen gneiss 1" feld
	pe N45E 50SE
ESN 9713	ledge of coarse
WP 11	protomylonitic granitoid
N 37 07.836	bio/opx/qtz/Kspar
W 80 09.858	
el 2910	N50E 36SE myl Fol.
ESN 895	on spur ridge many
P12	piles of leucogran (pg)
N 37 07.840	where old orchard was
W 80 09.941	El 3044
ESN 896	ledges of coarse
WP 13	mylonitic granitoid
N 37 07.809	gneiss/eq a granular
W 80 10.061	el 2997 granoblastic elongate
	text YBC or Ypg?
ESN 897	Coarse-med pyx bearing
WP 14	granulite gneiss. N
N 37 07.714	N60E 45SE ledge-joints
W 80 10.03	N80E 75 myl Fol
el 3057	N20E 75 NW

Item # 033-3

NOTES 2/08/08

ESN899	coarse mylonitic gneiss
WP15	greenish gray mylonite (YPy)
N 37 07 647	derived on Yb, ? top paremeat
W 80 10 095	N80E 80SE very schistose
el 3163	foliations but abundt grn
	epid. tote laye pyrite
	or pyrrotite phenocryst
	o. pb
ESN898	crossed some sort of
	contact back into coarse
WP16	leucogranitoid gneiss
N 37 07 602	
W 80 10 054	el
ESN897	4 N80E 72 NW Mylonitic
	foliation in coarse
	protomylonitic granitoid
	gneiss ledges on crest
	2/12/08 cold cloudy
ESN 896	N60E 55 SE highly
	foliated coarse mylonitic
	gneiss derived from Ybc
	granitoid
ESN895	N, N75E 25 NW
WP 17	Foliation, in qtz
N	chlorite phyllite
37 08 027	saprolite along old
W 80 10 814	mill race or trail
el 2291	
ESN 894	2 Highly sheared graphitic qtz
WP18	chl musc (sericite) phyllite
N 37 08 069	Occ above old stone dam
W 80 10 814	on little laurel creek
2446	c=S S E N75E 78 SE
	or c= N55E 75 NW

Dcls

Day Runner

NOTES 8/12/08

ESN 849 13 el 2583 GPS coarse
WP 19 white qtzite blocks + bldrs
N 3708.115 on top of ridge e of WW
W 10.813 1-60E 85 NW block
in place? on top
cut by qtz veins ||
Fractures N 20E vert
crossing olde extension Fracs
N 60 W 90 SW

ESN 850 Coarse white qtzite
WP 20 ledge, rnd ed qtz sand
N 37 08 2[illegible] and pebbles
W 10 806 2650 b N 45 E 40 NW
2665 Con trend N 35E 45SE
2 med - fine bdd ledges
About form ridge line
cross veined as below

ESN 851 ledges of ogotpebbl
WD 024 cgl N 30E 67 SE
N 37 08 51[illegible] top recession strg
W 10 8[illegible] 2 beds el 2740 b GPS

ESN 852 Coarse lithic cgl w/ qtz pebbles
WP 22 ledge N 45E 65 SE
N 3708 38[illegible] strong cleav N35E 35SE
W 10 10 88[illegible] Gentle slope topo exp.
el 2890 2850 b

ESN 853 Top ledge form at 2937
WP 023 qtzite blks on 2950 b
N 37 09 49[illegible]' gar Fau
W 10 10 34[illegible]'
ESN 854 On nose cg pbl ledge N NE
EL 3055 30 nw thin qtz - bearing
cataclasite zone N 45E 20 SE

Item # 033-3
WP 024 N 37 08 515 W 80° 10.879'

NOTES 2/12/08

ESN [illegible]	Coarse qtz rite lodge at
WP 025	el 3096
N 37 08 [illegible] 16	
W 80 10 [illegible] 03	N 10 E 10 NW qtz layer
	may be bed
ESN 868	N80E 25SE big
9961	Flat iron ridge
3089	WP 26 N 37 08 685
	W 80 10 704
ESN 869	Pink weath arcosic
WP 027	SS W 1/4 grains
N 37 08 52[illegible]	feld + qtz massive
W 80 10 3[illegible]	to thick bedded
el 2840	N 45E 70 SE
ESN 8610	Photo of green chlorite ser.
WP 028	mtx laminated fine SS
26 B5	Float in saddle between
	ridges N 37 08 431 W 80 10 165
ESN 8611	Legs of medium bedded
WP 029	gray to greenish gray
N 37 08 48[illegible]	coarse lithic ss
W 80 10 [illegible]	N 45E 65 NW
ESN 8612	Coarse schistose text
WP 030	cgl w/ large lithic
N 37 09. 322	& qtz clasts N35E 75NW
W 80 10. 899	N 35E 75 NW long schistose
el 2635	
ESN 8613	N 55E 55SE myl foliation
WP 31	in coarse myl quite gn
N 3708 12[illegible]	derived fom Y6c
W 80 11 43[illegible]	
2439	

Day Runner

Clear, very cold wind

NOTES 2/14/08 Total 6.92 Miles

	ESN 882 Bottom Creek Nature Pr
N	3108001 Just beyond Scott Finney
	8011137 Bridge over little Laurel
	2552 Oc light tan Silicous
	WP 32 sh N65E 75
	lt grey grn inside
	ESN 883 Oc at NE end of
	WP 33 drumlin shaped knob
N	3707991 N75E 40SE crenu
W	8011220 Foliation in Silicous
	2602 qtz ser chl phyllite
	38° with qtz sand layers
	ESN 884 Cocade flat Oc (Photo)
	WP 34 of Mylonitic Augen
	54 gneiss Oc. YBC
N	3707861 61 2608 2660
W	8011228 N30E 70SE lineation 210 70 SW
	ESN 885 A series of stone
	WP 35 EW terrace mark remains
N	3707943 of cultivation (orchard)
W	8011330 In this slope. Stones
	2712 are angular qtz pebble
	cgl w/ white qtz 65 mtx
	(metamorphic fabric
	is schistose) grn phyllite
	chips on benches
	ESN 886 Couse qtz 65 ledge with
	WP 36 white qtz pebbles
N	3707957 N45E 65 SE strong
W	8011383 physiographic expression
	+/- 69 2844 2780 ft

Item # 033-3

NOTES 2/14/08

ESN 887	On ribbon marked trail
WP 37	large blocks OF qtzite
N 37 08 044	With angular qtz pebbles
W 80 11 389	up to 1" across 28306
el 2950	Big ledge on top N 85E 15 NW
	Joints N 60 W 65 SW
	Photos S 25E 75 NE
ESN 888	Ledge (6') dk greenish grey
WP 39	fine, well rounded qtz
N 37 08 207	sandstone N 30E 10 NW
W 80 11 594	Crossing trail Sh + SS
el 2889	Float in saddle below 28006
ESN 889	Photos of fine grained
WP 39	vitreous qtzite & ledges
N 37 08 241	Cross ridge ~ 6' thick
W 80 11 537	N 35 E 10 NW 28406 2906
ESN 890	Ledge of vitreous qtzite
WP 40	crosses trail at 29806
N 37 08 298	N 45 E 22 NW
W 80 11 604	2987 el GPS Good View B/H
ESN 891	el 3042 On trail crossing
WP 41	10' qtzite ledge
N 37 08 367	
W 80 11 781	
ESN 892	Scolithus bearing vitreous qtzite
WP 42	ledge N 75E 35 NW, 25'th
N 37° 08.604'	syncline on top
W 80° 12.102'	ledge N 30E 45 SE photo
3326	looking NW
ESN 893	Shale and thin SS Fit
WP 43	N 37 08.710 W 80° 11.977
	el 3460

Day Runner

NOTES 2/14/08

ESN 844	Fractured and brecsiated qtzite
WP 44	Ledge N50E 23 NW along old
N 37 06 707	gridded trail el 3450b
W 80 11 649	el 3555
ESN 854	Synclinal axis in
WP 45	qtzite S 45 W at 25
N 37 06 709	el 3550
W 80 11 689	skolithus between 9 & 10
ESN 859	10 ledge of med grained
N 37 09 040	gritty granule qtzes
W 80 11 521	N 55 E 60 SE at bend
	in ridge el 3588 3640b
ESN 85	11 Skolithus in abundance
	along trail
ESN 85	12 Ledge forms on
WP 47	both sides of trail
N 37 08 772	el 3724
W 80 11 680	3520b
ESN 875	Ledge of vitreous qtzite
WP 48	N 20 E 5 NW on trail at bend
N 37 08 611	el 3563 - Good antethem
W 80 11 799	
ESN 884	N 20 E 55° NW
WP 49	brown weathered Hampton
N 37 08.651	phyllite or meta argillite
W 80 12.042	along old trail
	2/15/08
ESN 893	Grn argillite w/brn lams, vfgr bdg
N 37 10 481	N 50 15 NW cleavage vert
W 80 11 135	el 3491 3480b

Item # 033-3

2/15/08 – 4.7mile

NOTES 2/15/08 cool wndy clear

ESN 584	Dc of ~20' qtz ss in Bedding
WP51	N 30 E 23 NW Bedding
N 37 10	395 W 80 11 173 el 3549 3420
ESN585	N 35 E 45 SE 15' ledge
WP52	grey qtzite crossed road
N 37° 10.314	el 3489 34006
W 80 11.219	
ESN586	Hampton qtzite crosses
WP 53	road below and Ocs on
N 37° 10.183	Ridge above road here N30E 25NW
W 80° 11.316'	el 3603
ESN587	Photo of 30' qtzite
WP54	where it crosses road
N 37° 10.075	at WP54 N 10 E 46 NW
W 80° 11.322'	el 3570 Fg weath orange
ESN827	N 20E 48 NW 12' ledge orange
WP 55	Weath Fg Vitreous qtzite crosses
N 37 09.926	el 3604 36006
W 80 11.399	
ESN 823	Medium bedded coarse
WP56	qtzite w/ 4" beds Photo
N 37 09 864	cut by Scolithus tubes
W 80 11 501	N 60E 30 SE el 3647
ESN824	Photo of buff to tan weath Gray Shale
WP57	Sh/Sltst w/ mica flakes
N 37 09 821	bioturbation Cleavage N15E 45 SE
W 80 11 505	to plane of bedding
3706	below pedes line

Day-Runner

NOTES

	ESN825 N45E 38°NW Masside Cg qtzite
	WP58 highly fractured brecciated
N	37 09 751 as ESN844
W	8011.498 el 3783
	ESN826 Massive qtzite ledge N 20W 30NE
	WP59 bedding el 3720.6
N	37 09.639 W 80° 11.524 el 3717
	ESN827 Massive qtzite ledge N45E
	WP60 23 NW at edge of Clearing
N	3709505 W 80° 11.509' el 3598 3600
	ESN828 Massive qtz. to ledge N 60W 18NE
	WP61 el 3550 N 70W 25NE
N	37 09 330 W 80 11.537 el 3453
	ESN829 Ledge on hill crest seems to have toroidal topo expression creating a bowl bed at SE quadrant N 45E 30 NW strong Fracture clevarage ~ close spaced jointing N50E 60 SE
	WP62 150' S dip reversal across
N	37 09.044 ravine N 70E 18 SE
W	80° 11.524 el 3663
	ESN830 Highly burrowed gray grn
	WP63 metarg. lite in new road
N	3709.494 bed disrupted bed N55E 38N
W	80° 11.699' el 3549
	2/18/98 Don Copen FMN
	ESN 57 Cemetary on Skidd Knob mtn
	stuart ~ Civil War vet

Item # 033-3

NOTES 2/15/09 F

ESN820	Ledge of white Fg qtzite
WP64	N45E 18SE along
N 37°09.681	old trail. at WP
W 90°11.559	el 3617 37406
ESN821	Photos From Powerline
WP65	Hummocky Cross bedg
N 37°09.812	in Qtzite el 3739
W 90°11.595	N40 37 SE
Feb 18	ESN Qud Cool, breezy
2 DSN	OPEN FARM Land owner
Cell 537	8255 5miles on old G31
ESN571	Stewart Cemetary
ESN572	Breccia w/ Mn Fe cement
WP66	el 2124 oc along
N 37 b. 799	road side (photo)
W 90 12.268	N40E 40SE Fract cleavage
	in Qtzite above
ESN573	N 20W 30 NE mass
WP67	Fg w/gr to 0m weak
N 37 10.814	qtzite Ledge of ?
W 90 12.200	cross bedg 4"-12"
ESN574	Ledges above powerline N80W
WP68	40NE massive Fine grained
N 37 10.804	Vitreous qtzite with
W 90 12.169	Skolithis streaks tiny
at leg 8	purple mottles Rippled
50' wide	bed bottoms. Dark gray
	to brn shale and Fine SS
	interval above

Day-Runner

NOTES 2/18/07

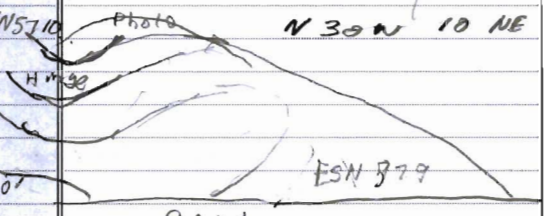
	ESN 54	Long section of gry argillite
	WP 69	and fine siltst. N 65E 25NE
N	37 10 593	Photo of exposure below
W	80 12 094	powerline el 2330 ft
	ESN 542	Rusty weathering ss fg 330 5° NE
	ESN 57	75' FW of dk grn phyllite
	WP 070	(cgslt) w rounded
N	37° 10.380	black carbonaceous
W	80° 12.09	inclusions and siderite
el	2434	nodules - looks like
	volcanic	a limbed brown weathered
		intrusive 315 32 NE
		hinge EW 22W
		Phot.
	ESN 576	Closely folded gray argillite
	WP 71	with thin white qtzite
N	37 10.443	N 65E 29NE hinge
	80 11.997	axial plane ←
		N 70E 30NW 2507
	ESN 577	N 70 W 30 NE 10' white
	WP 72	qtz ss occ in turn
N	37 10 583	med - thin bedded qtzite above
W	80 11 998	looks RSU
	ESN 578	20' thick grn ledge across
	WP 073	road at el 2640
N	37 10 651	NS 45E
W	80 11. 962	
	ESN 579	Massive, coarse, pbl ss/qtzite
	WP 74	white to gray weath brn
N	37° 10.723	N 80 W 36NE el 2622
W	80° 11.926	Photo of inverted cross bed
		photo of scour

Item # 033-3

NOTES 2/18/07

ESN579 coal S15W 5° asymmetric
smaller coal
AP N15W
65NE

ESN5710 Photo N30W 10NE



WP 75 e/2791 6' qtzite at road
N 37 10760 level N10W 45 NE vcg
W 80 11900 white/gray qtzite fine

ESN 543 N10W 34NE massive
WP 76 cg qtzite ledge
N 37 10 832 beds mels thin bedded on part
W 80 11 92 e/2743

ESN 571 Ledges of tan weathered
WP 77 med-cg qtzite thin-
N 37 10 819 med bedded N55E
W 80 11 80 e/2787 0°55E

ESN 5772 N20E 55SE MASS to thick
WP 078 White cg qtzite ledges
N 37° 10.7 24 e/2827
W 80 11.7 83
ESN 5713 N70E 10SE thick bedded qtz ss
WP 79 N 37° 10.658' W 80° 11.669' el 2784

Day Runner

NOTES 2/18/08

	ESN588	Occs of coarse qtz pebble
	WP80	cgl ss beds in turn
N	37°10'704	N35-40E 40SE
	80 11,584	el 2911
	ESN589	Long shale interval
	WP81	below (above cgl)
N	37 10656	then impuress oc at
W	80 11480	point N30E 60
el	3047	Small thrust N65E 25°S
	WP82	ESN 5810 highly leached
N	37°10.529	grayish tan qtz & slsn N
W	80°11.335	el 3161 Beds N50E 20SE
	Photo	clean N20E 45SE pencil
	ESN5811	Crenulation folds in
	WP83	thin bedded argilite
N	3711,537	Plunge 5 at 150°
W	80 11.294	AP N10E 80SE of 3157
	ESN5812	Thin bedded dk gr argillite
	WP84	and qtzite N30E 85NW
N	37°10.542	In road cut
N	80 11,106	el 3287
	2/19/08	TRAVERSE of 2-69
	ESN562	Coarse gr white massive
	WP85	qtzite on road side bank
N	37 11156	N75E 30NW
W	8010205	el 3394
	WP86	ESN 5813 Cg massive white
N	37 10.580	qtzite ledge (Eun) N85E 25NW
W	80 11 01	El 3398

Item # 033-3

NOTES

WP87	ESN 563 Coarse white pbl
37 10.991	qtzite ledge along road
W 80 10 7.9	N55E 25 SE el 3474
	ESN 564 Qtzite ledg N60E 20 NW
WP88	ESN 565 oc thin bedded
N37°11.330	fg qtz ss on trail
W80°10.512	N55E 37 SE 3594 Ft
WP89	ESN566
N 37 11.	N35E 35 NW 20' ledge
W 80 10.	of qtz ss in Hampton
	crossing road
WP89	ESN567 N75E 25 SE
N 37 11 643	thin wear thin bedded
W 80 10 588	silt + argillite
el	3403
N WP90	ESN 568 N45E 15 SE 10'
N 37 11 713	white qtzite ledge across
W 80 10 794	ridge 3220
WP91	ESN 521 N80E 20 SE Airstrike
N 37 11 900	across valley above Spring Hollow
W 80 10 851	Reservoir
	Ledge s on ridge dip SE
	below crest Jing up hollow
N60E	Outcrops in road of corse qtz
30SE	qtzite pebble cgl at base
	of in El 3238 SNow
Cgl	Photo of ledge on trail
	pavement N50E 18 NW
WP92	ESN522 Cgl ledge on top
37 11 904	N45E 45SE graded
80 N 804	3109

Day Runner®

NOTES 2/19/08

	ESN 723 at powerline
	Tn bedded qtzite at arg ill tf
WP 93 N 35 E 30 SE N 37 beneath	
2/20/08 Atkins Farm	massive qtzite
	Richard Vicker
	McVitty House
	Salem Air Photos
WP 93	ESN 731 Silicified breccia
N 37 09 371	Float w/ yellow mineralized
W 8012 864	box works, + limonite
el 2608	2000' b
WP 94	ESN 732 Trail turns to NW
N 37 09	at break in slope el 2
W 8012	shale chips on slope 2100b
WP 94	ESN 733 @ of thick
N 37 09 34	el 2245 bedded white lg
W 8012 609	metaqtzite ~ 2' thick
	N 25 W 22 NE
WP 95	ESN 734 Trail switches
N 37 09 095	back el 2293
W 8012 637	Road visible across hollow
WP 96	ESN 735 30' White-gry fg
N 37 34.	Vitreous qtzite ledge
W 80 12 12	N 32 E 65 SE el 487
	ESN 811 saddle-in sh
WP 097	ESN 812 saddle in sh
N 37 09 159	N 35 E 70 SE. below
W 80 12.295	Powerline Photo across
	hollow 3 qtzite ledges el 3104

Item # 033-3

March 5 DATE 2008 Wed DAY

ELLISTON DIARY AND WORK RECORD COLD BREEZY

ESN 568 6' qtzite ledge in top Hampton N 20 E 26 NW medium gray to white coarse sorted well rounded qtz sand WP 163 3547 e 27 11 463 w 80° 10.441'

ESN 536 on nose of ridge in sh/ss Flt no OC bearing N 75 E on White upper Unicoil ledge air strike N 80 E 70 SE (07) WP 164 e 13200 N 37° 11. 702 W 80° 10.364' Photo spring on upper ledge N 63 E N 50 E 60 NW AIR ESTIMATE

ESN 537 on First Knob Photos of Gypsy moth Egg cases and Pupae stage shed skins Hampton Shale + ss Flt grns ~ weather brown slaty cleavage WP 165 N 37 91 gle W 80° 10.310d 2231

ESN 538 on second knob 6' qtzite ledge rusty white, lt gry med-coarse well rounded + sorted est strike on topo N 76 E dip ~22 NW from bench ~~Dip 16~~ Battery low

ESN 539
Second Ledge N 45 E 20 NW ort forms large Rock Shelter cliff 20' high along entire trail white coarse grained massive bulbl qtzite WP 166 el 3131 N 37° 11.935 W 80° 10.244' at 100' wide valley across ridge 2nd ledge.

ESN 5310 Third ledge N 40 E 22 NW on knob - more gypsy moth cases WP 167 N 37 12 087 W 80° 10.232 el 3141

Wed
DAY 3-5-08 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 5310 Contd bearing N 65E to syncline on Power Line Ridge photos. N551

9 0900 ESN 531 Dip Reversal on Next Knob

10 1000 N 55E 40 SE 61 rusty wea. [g] ledge. Trail more worn. lots of bear dung. Photos

11 1100 WP 168 N 37° 12.099 W 80° 10.244 el 3152

12 1200 ESN 532 Drk grn-gry musc chl gtz argillite w/ strong slaty cleavage

1 1300 N 55E 60 SE at WP

2 1400 pos bed N 80E 65 NW old dyar road goes down to valley

3 1500 WP 169 el 3131 N 37° 11.718' W 80° 10.348 ESN 569 Massive gray feld ss ledge

4 1600 N 50E 5E NW at WP 170

5 1700 N 37° 11.263 W 80° 10.576' el 3296

3-6-08

6 1800 ESN 5610 Knob is underlain by thin bedded rg ss + slts + arg slts with slaty cleavage. Beds N35E 44 NW

7 1900 WP 171 N 37° 11.304 W 80 10.522 el 3587

8 2000 ESN 5611 Road turns N on nose dk gry thin bedded, highly burrowed arg slts w/ slaty cleavage & beds N35E 66 NW

TO BE DONE TODAY (ACTION LIST)

WP 171, N 37° 11.267 W 80° 10.642 el 3529

gfz ite ledge ~ 30' below in turn making small flat on road - fg x bedded to laminar

ESN 5612 thin bedded ss forms pavement N 25E, 20SE WP 173 N 37 11.302 W 80° 10.781 el 3341

ESN 551 Eh dk gry-grey cg gtz ss micaceous N 25 E 16 NW. Beach w/ 10' cliff beside road WP 174 el 3149

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3/6/08 DATE

Thur DAY

clear, cool

DIARY AND WORK RECORD

ESN 551 Contd photo of ss in road joints N10E 85 SE 260 680 75 NW qtz veins 290 64 NE, 050 66 NW N 37 11 348 W 80° 10.896

ESN 552 Pavement Dk gry argillite w/slaty cleavage N35E 70 SE bedding not preserved ~ transposed WP 175 N37° 11.343 W80° 10.083 el 3049

ESN 553 Pavement + Flt cgl E [illegible] meta qtzite ledge, white to light gray w cal/hem yellow orange w/ gravel soil N35E 30SE WP 176 N37° 11.417 W80° 11.100 el 3072 on knob WP 176

ESN 554 Pavement 2nd major ec ledge gray to white coarse x bedded ss with thin gravel beds N30E 20 SE x beds N 30E 42 NW WP 177 N 37° 11.420 W80° 11.193

ESN 555 Pavement 2nd Major ledge N 25E 15 SE at WP 178 2968 N 37 11.423 W 80° 11.212

ESN 556 Top of First rusty weath pebbly qtzite N 30E 25SE pavement in saddle at WP 179 el 2969 N 37° 11.425 W 80° 11.241

ESN 557 base of cgl ledge on knob 11 60E 17 SE pebbles at WP 180 N37° 11.429 W80° 11.290 el 2996

ESN 558 Conglomerate ledge N25E 25NW on knob pavement at WP 181 N 37° 11.481 W80° 11.417 elevation 2940 photo on slope below N30E 15 NW

Thur DAY March 6 DATE 2008 ESN

APPOINTMENTS & SCHEDULED EVENTS

ESN559 thk cgl bed one 1283

8 0800 steep slope below knob and above Powerline - photos

9 0900 White Qtzite at base N30E 15NW WP182 N37 11484 W80° 11.476

10 1000 ESN5510 pavement of White

11 1100 quartzite below junk (photo) cars at powerline. Bedding

12 1200 N45E 22 NW scolithus in bedding, undulose rippled sur

1 1300 WP183 N37 11.494 W80° 11.537 el 1288

2 1400 ESN5511 White to pink vitreous qtzite with = sharp

3 1500 cross beds N40E 15SE WP184 N37° 11.521' W80° 11.594' el 2755

4 1600 ESN5512 N40E 30SE there

5 1700 are 5 cross bedded qtzite ledges WP between 11 & 12

6 1800 wp185 N37° 11.564 W80° 11.627 el 2630

7 1900 ESN545 N30E 28SE 20' coarse

8 2000 qtzite ledge on knob separated from 5512 above by dk gray other weathering slaty argillite

WP186 N37° 11.581 W80° 11.68 el 2503

TO BE DONE TODAY (ACTION LIST)

ESN525 Photo of Talus area w/ possible Anticlinal nose

ESN526 Talus area w/ ledge sp

ESN548 20' ledge massive bedded white to pink qtzite WP187 N37° 11.608 W80° 11.718 N45E 25SE el 2458

Photo of graded beds

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March 6 '08 DATE DAY

DIARY AND WORK RECORD

ESN 542 WP 188 N 37 11.612' W80°11.728
el 2506 another exposs ledge
less pure 5-6' thick N45E 30° SE

ESN 548 ~ 50' amygdaloidal
meta basalt ocs 100' above
Fault - extremely steep
N20E 30 SE Photos

ESN 549 Just below (25') 2064' el
inferred fault trace based
on topographic expression
ground covered w/ss & basalt
WP 189 N 37° 11 .432 W80 11.813

ESN 5410 ss Ledge on steep
phyllite / slaty argillite
slope N30W 35 SW 2006
wp 190 N 37 11 323 W 80 11 894 2132

ESN 5411 amygdaloidal basalt
and lithic tuff breccia cut
Blocks and cobbles qtz WP
191 N 37° 11.269 W 80° 11.872 2067 ft
2080 ledge 20' above N20W 64SE clear
N55W 20 SW possible flow banding

ESN 5412 Just below PL. WP 192
ledge of coarse qtzite N35E 20SE
CW N 37° 11.214 W80° 11.805' 2330 el

ESN 5413 Just above Powerline
exposure of tan weathered siliceous
argillite + fine sss Photo of
Unicoi Ledges across ridge
N 35E 20 SE Clear here N20W
50NE Probably wrong pl interference
WP 192 N 37 11 213 W 80 11 739'
el 2393 N 50E 16 NW To p ledge

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 5514 WP 193 N 37°11.189' W 80°11.685'
8 el 2481 middle of upper unicoi
0800 ledge N 30 E 25 SE
9
0900 ESN 5513 Cgl ledge 50' thick WP 194
10 N 37°11.162' W 80°11.606 el 2591
1000 Ledge N 40 E 15 SE
11
1100 ESN 5514 Top Cgl section el 2650 ft
12 WP 195 N 37°11.134 W 80°11.560
1200 E 2695 N 35 E 15 SE Cgl ledge
1
1300 ESN 5515 pebbly ss in tompton
2 at 2700 ft
1400
3 ESN 5516 pebbly Cgl ledge base at
1500 N 20 E 35 SE WP 196 N 37°11.092' W 80°11.422'
4 el 2803 2720 ft
1600
5 ESN 5517 Top Cgl ledge at WP 197
1700 N 37°11.075' W 80°11.431' el 2906
6
1800 ESN 5518 thin bd fg ss N 15 E 20 SE
7 WP 198 N 37°11.039 W 80°11.382'
1900 el 3009 2920 ft
8
2000 ESN 5519 N 20 E 45 SE transposed
thin beds // cleavage W 37°11.067'
3095 el TO BE DONE TODAY (ACTION LIST) W 80°11.245'
th
ESN 5520 Pavement thin bedded
Cgl N 20 E 14 NW on flat WP 200
N 37°11.038 W 80°11.170 el 3135

ESN 5521 pavement thin bedded
Ch N 25 E 20 SE WP 201
N 37°11.020 W 80°11.071 el 3130
ESN 522 N 60 E 35 NW ripple
in lower ch at WP 201
N 37°10.995 W 80°10.947 el 3320

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March 6 DATE DAY

DIARY AND WORK RECORD

ESN 5523 W 203 E 3388
N 3T 10 943 W 80 10 877
Ledges N 50E 34 Nw pavement
N Bteep pen
Cnes

ESN 5

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800
9 0900
10 1000
11 1100
12 1200
1 1300
2 1400
3 1500
4 1600
5 1700
6 1800
7 1900
8 2000

TO BE DONE TODAY (ACTION LIST)

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DATE DAY

DIARY AND WORK RECORD

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DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800
9 0900
10 1000
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3 1500
4 1600
5 1700
6 1800
7 1900
8 2000

TO BE DONE TODAY (ACTION LIST)

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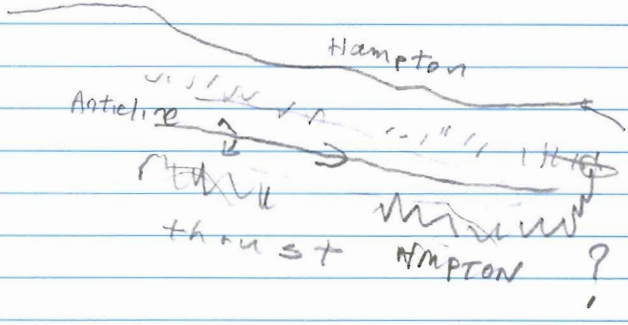
4/17/08 5kft
View SW from



DATE DAY

DIARY AND WORK RECORD

APRIL 17 '08 ESN 57-15 Limonite qtz
Breccia Flt along Powerline
access Road
ESN 5-7-16 Red Rome argillite
residuum on road at powerline
WP208 el 2193 N 37° 10.151 W80° 12.480'
NAD E 39 SE 2150 topo slaty cleavage
WP 209 ~ 10' above sh contact
White qtzite Flt at el 2235
N 37 10 .444 W 80 12 .44 2200 b
WP210 Breccia, cemented w/ Fe ore
el 2382 N37 10 437 W80° 12.401'
el 2360 b outcrop of Qtzite
20' above Photo of Fe ore
close spaced cleavage above breccia
N20E 60 SE
ESN5-7-17 290 28° NE Med
bedded, lite gry-white
qtzite (Erwin) at
WP 211 N 37° 10.427 W 80° 12.292 2249 2330 b
20' breccia zone then DSH qtzite
beds
ESN 57-18 WP 212 el 2585 2700 b
N37° 10.37' W 80° 12.311
Med-thk bedded x bedded
white fg-mg qtzite
N10E 25 SE & CROSS Beds N30W 35 NE

ESN 5-7-19 WP 213 N 37° 10.359
N 10E 27 SE W80° 12.304'
med bedded white-light orang-
pnk well rounded qtz arenite. mod fr
strongly burrowed by linear
Skolithus.
ESN 5-7-20 WP 214 N10E 27 SE
Med-thbded white-pnk
sdstn as bded qtz ss
N 37° 10.251' W 80° 12.232' 2828
Fine
ESN 57-21 Fine qtzite Flt @ 24506

DAY 4/17/08 DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 5722 - grn shale + phyll Float in saddle WP 2,14
8 0800 el 2874 N 37° 10.172 W 80 12 180
9 0900 5/6/08 ESN 37 14 WP 282
10 1000 N 25 W 10 NE light grn to white + grn / weathered
11 1100 meta s/tsn w/ clear qtz veinlets
12 1200 bedding N 37 8 .741 W80 09 .308 el 1860
1 1300 N40E 14 SE 2 20 17506 below on Road
2 1400 ESN 3715 WP 283 el 1896 N 37 12 663 W 80 09 824
3 1500 course fan deposits w/ sandy soil, mtn boulders up to 2' + stump pump
4 1600
5 1700 ESN 611 WP 284 el 1980 N 37° 12 392 W 80 09 868
6 1800 much fan debris, sh + mdsn Flt along trail, ledge at
7 1900 el 1980 on side trail tuck N65E 23SE Mdsn
8 2000 + grn fine ss + s/tsn laminations Eqll (611) ESN 612 in Stream below WP 285

TO BE DONE TODAY (ACTION LIST)

N 37 12.368 W 80 09 891
grn grn thn-med bedded
el 2027 18406 N 85 E 30
laminated to massive green
grn meta s/s and meta
s/tsn w/ qtz chl
mascovite + clo in mtx
Photo of boudinage or
isoclinal hinge streams
choked with 10 - 15 blocks
of cgl and ss

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5/6/08 DATE DAY

DIARY AND WORK RECORD

ESN 613 - WP 286 el 1983
1940 b 20' cliff ~ 75' beyond
end of logging Road
N37 12 . 335 W80 09 849
coarse qtz arenite ledge ~20'
N85E 30SE

ESN 3716 el 2000 b 2076 cp
WP 287 N37 12.645 W80° 09.610
many chips in orange clay soil
along logging road some orange
mottled white and gray some
very porous scoreaceous saprolite
fragments

ESN 3717 wp 288 el 2158 2046
N 37°12.610' W 80°09.624
abundant white & lt gray
chips of fine Sst
blockhead soil ~6 ave Vols

ESN 373 redux WP 289
N75E 40 SE Metavolcanic
beds — basalt saprolite
some fresh Float (Spl)
el 1848 N37 12.713
W80 09.726

5/9/07 ESN
N70E 75 SE mylonitic fol
in Sheared Vol WP 295
N 37° 07.722 W 80° 11.150
el 1934 2620 m

CHK N70E 75 NW Mylonitic
Gneiss
WP 295 2438
N 37 07 400 W 80 11.210 2180 6
CHK el 2468
WP 292 37° 07 050 W 80° 10.975 2006

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800	
9 0900	
10 1000	
11 1100	
12 1200	
1 1300	
2 1400	
3 1500	
4 1600	
5 1700	
6 1800	
7 1900	
8 2000	

TO BE DONE TODAY (ACTION LIST)

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DATE DAY

DIARY AND WORK RECORD

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DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 5-7-23 Occ of massive pebbly ledges of Unicoi Fm N45E 30SE usually on strike with ledges across hallow to NE

8 0800
9 0900
10 WP 215 N 37°10,138 W 30°11.973
1000
11 ESN 5-7-24 V cg cgl Float on slopes and knob 3200 b
1100
12 WP 216 el 3146
1200 N 37° 10.097 W 80° 11.933
1
1300 ESN 5-7-25 Cgl Float on knob
2 ledge Fg ss N 35E ~15-30° dip into saddle
1400 WP 217 N 37 10 056 W 90 11,902'
3 1500 No oc in saddle el 3200 3280 b
4
1600 ESN 5-7-26 el 2895 WP 218
5 N 37 10 150 W 80 11.790 (2960b)
1700 Cgl block s on slope
6 below shale
1800
7 ESN 5-7-27 el 2890b 100' down
1900 stream from side drain shale
8 on slopes, ledges cross
2000 Cg SC N 10E 20SE 2 ledges

TO BE DONE TODAY (ACTION LIST)

ESN 5-7-28 N 70 E 50 NW
ledge ss el 2650 b
WP 219 2550
N 37 10 232 W 80 11 854

ESN 5-7-29 N 45E 40SE beds
birch + sch el 2823 2550
N 37 10 317 W 80.11.877

ESN 5-7-30 N40E 20°SE Mass Fg wh
ripple / solitons looks like Erwin

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DATE DAY

DIARY AND WORK RECORD

WP 227 er 2451 & same
N 37 10 379 W 80 11 899

ESN5-7-31 N 30 W 35 NE
broken ss + qtzite
ledges - Fold hinge or Fault?

ESN 5-7-32 Historical Spring
piped to house below
WP 222 N 37° 10.509 2636
W 80° 12.168 22306

4/29/00
ESN 3711 WP223 @ 1838 Qc
N 37° 12.812 W 80° 09.696
ESN 3712 N 80 W 20 SW
cleavage in Rome Mdstn in
deep cut ~ 20' of Colluvium
w/ white qtz lite overlies
rome residual soil

ESN 3713 Mdsn chips in
Blankenship Cem

ESN 29[illegible] Mdsn chips on knob

ESN296 20' dia ~ 4' deep
pit in breccia at BRE
breccia limonite cemented
saprolitized ss fragments
Photos at 1980 & WP 226
N 37° 12.634 W 80° 10 079
Epidotized meta Basalt flt, blue
stake = property line at
saddle
ESN 297 N50E bearing to
Circle turnaround across hollow
chips and slabs of chl
phyllite schist and green ss
on slope 100' above
saddle

4/29/08

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 298 at el 21506 bearing N52E to Circle WP 227 N 37° 12.556 W 80° 10.093
9 0900 el 2105 - QC of thin yellow orange siltsn, or fine sand
10 1000 NS to N30W dipping 20 SE above 100' of meta
11 1100 volcanics including massive meta basalt 30-50' thk
12 1200 then another vol. layer above with flow th
1 1300 lithic tuff breccia and xyholitic float forms small
2 1400 shoulder or knob on ridge
3 1500 ESN 299 N70E 18SE yellow orange to lt gray weath fine
4 1600 mg lithic tuff / volcaniclastic
5 1700 meta ss w some rnded qtz many angular fragments at el 22206
6 1800 above small break in slope (colored WP 229 N 37° 12.529 W 80° 10.110 el 21895
7 1900 ESN 5313 el 2363 23206
8 2000 WP229 N 37 12 493 W 80 10.089 N70E 20° SE ledge of coarse pebbly qtz sand at top of section Shly

TO BE DONE TODAY (ACTION LIST)

ESN 5314 about 50' above 1st ss ledge is 20' massive white qtzite ledge N70E 35SE WP230 N 37 12.452 W 80° 10.094 el 2427 24006 photo of Sgn across the valley.

ESN 5315 WP 24006, 540E bearing on N37° 12.396' W 80° 10.109' el 2552

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4/29/08

DATE DAY

ESN 5315 DIARY AND WORK RECORD

30' ledge of white qtzite, w/ large talus slope below Apparent dip 10 SW strike N30W at WP

ESN 5316 2' ledge of qtzite N35E 30 SE on ridge at WP 232 el 2671, N 37° 12.379 W 80° 12.1

ESN 5517 WP 233 N 37° 12.313' W 80° 10.185' N45E 40SE broken ledge prob up ridge el 2791, 2706, 4' ledge interbedded with tan to light gray siliceous mudstone and siltstone with strong slaty cleavage

ESN 5518 N75W 18°SW ledge crossing ridge SS, qtz tan, gray thick bedded massive 26' WP234 el 2852 N37 12.257 W 80 10.188

ESN 5519 N35E 22SE base of massive ledge ~ 30' which is marker for upper uniconi - note some pebbles in ledges below WP 235, el 2752 N 37° 12.184' W 80° 10.311' Photos of ledge and syncline to NE el 2900 6

4/30/08 ATKINS GATE WP 236 el 1518 N 3709.605 W80 3.246

ESN 736 el 17906 WP 237 1608 GPS N 37° 09.530 W 80° 12.974 Huge spring ~ 1500 gpm out of Rome GPS el 1845

ESN 737 el 19506 WP 238 N 37° 09.587 Thin bedded ls/ss N35E 80SE 6' max W 80° 12.767

DAY 4/30/08 DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 737 ctd sub horizontal
8 0800 Filled ext fracs N8E & NW
Photo
9
0900 ESN 738 el 2140 b el 2314 GPS
10 1000 N 37° 09.601 W 80° 12.776 ~ 30' above break in slope tan
11 1100 shale chips in soil — maroon and green chips on
12 1200 trail in saddle below
1 1300 qtzite PIT Foliation in saprolite N40E 75 SE thin bedded mudstone lt gry splotched ylw + rd + grn
2
1400 ESN 739 el 2220 b WP 240
3 1500 N40E 75 SE ~ 6' Ch ss layer N 37° 09.668 W 80° 12.711 el 2311
4 1600 N40E 50 SE nearer saddle cleavage N 20E 70SE ~ 60 T beds
5
1700 ESN 7310 Outcrop of Fg sandy
6 1800 phyllite or slaty mudstone
7 1900 N 35 E 30 NW bedding
N 40 E 75 SE cleavage
photo of bed WP 241 el 2419
8 2000 N37° 09.649 W80° 12.589 24206
F

TO BE DONE TODAY (ACTION LIST)

ESN 7311 N 30 80 NW 6 qtzite in
Ch at WP 242 el 2583' 25206
N 37° 09.617 W 80° 12.541'

ESN 814 OCS of Fg sl ty
mudst with strong slaty
cleavage laminae N10E 25 NW
bedding N 35 E 65 SE
WP 243 N 37° 09.637 W 80 12.373' el
2982 29806 Photos

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4/30/08 DATE Wed DAY

DIARY AND WORK RECORD

ESN 815 el 3090 30506
WP 244 N37 09.674 W80 12.373
Pavement, o upper Unicoi Grit
and cobble beds Photos
N 35 E 38 SE wh/lt gy
thk bedded/massive well
rounded pebbly grit,
actual contact (Photos) N 45E 30SE

ESN 816 Photos of Ce block
to NE bedding in cliff
N20W 38-40 NE talus below
Bearing to knob N 20E bearing to Oc
N10E

ESN 817 N15E bearing to knob
(Ec) Photos of Eu/Ch contact
strike N 35E 30SE WP 245
el 3050 N 37°09.724 W 80°12.261 30806

ESN 818 contact @ WP 246 el 3132
N 37°09.311' W 80°.12.142' N30E 38 bed

ESN 819 E-W 20S coarse grit
at top of unicoi WP 247 el 3199
N 37°09.840' W 80°12.052'

ESN 810 N65E 40 at top of 100'
cliff held up by 30' ledge of
upper Unicoi WP 248 el 3221
N 37 09 873 W 80 12 010 el 32506

ESN 811 well preserved landslide
scarp on ridge at WP 249
el 3291 shale float 31006
N 37°09.705' W 80 12.191'

ESN 812 WP 250 37°09'707 80°12'408 el 30006
N60W 20SW massive beds of cg
gritty ss + cg/ el 2940 gps

Wed 4/30/08

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 ESN 8L13. NS 60 W congl. ledge, no OC below WP251
0800 N 37 09 726 W 80 12.447 2400b
9
0900 ESN 7312 el 0556, 2600b WP 252
10 N37°09.798' W 80°12.555'
1000 6-8' fine qtzite ledge crossing
11 spur N 70W 23 SW.
1100
12 ESN 7313 el 2493 2480 b
1200 N45E 15SE fine white qtzite
1 6" or less burrows pos. scol.
1300 WP 253 N37 09 731 W 80 12 644
2 ESN 7314 el 2901 2400b WP 254
1400 N37, 09 722 W 80 12 612
3 50't of white qtzite — scolithus
1500 Ce? N10E 10 SE
4
1600 ESN 7315 contact sh/qtzite
5 thought to be Fault N50E 30SE
1700 qtz ledge ~ 50' thick
6 WP 255 el 2497, 2300b
1800 N 37 00.691 W 80°12.661'
7
1900 ESN 7316 Jasper Float on 4 wheel
8 trail sh Flt above - Erwin Pinches
2000
ESN 7317 N45E 10 NE Kink axis
in red beds
WP 256 1983 (1920b) Just above big spring
N 37 09 490 W 80 12 953

TO BE DONE TODAY (ACTION LIST)

5/1/08

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5/1/08 DATE

Thursday DAY

DIARY AND WORK RECORD

Chk 135 ac of qtzite behind tracler ~30' tk ledge n60W 40 SW WP 257 el 1841 - 15806ft N 37 06 752 W 8012 596

Chk 136 above small bench w/ stolithus float at WP 258 el 1857 N 37 06.915 W 80°12.559 19006

Chk 137 75' wide bench w/Stolithus Float at WP 259 el 2022 N 37 06.979 W 80°12.587 20106

CHK 138 Top of 3' stolithus bearing ledge in place at el 2140 N 30 W 27 SW @ WP 260 el 2098 N 37 07 018 W 80 12.601'

CHK 139 continuous block Field on ridge at WP 261 el 2267, 23406 N37 07.117 W 80° 12.602. In place blocks strike w dip slope N 30E 35SE, Stolithus ledge

CHK 140 N 30E 35SE base 2407 of Stolithus ledge at WP 262 photos of contractors house N 37 07.193 W 80°12.616' 25006

CHK 141 Ledge turns across ridge N20E 45 SE WP 263 N37° 07.395 W80° 12.597 el 28096

ESN 773 el 29006 WP 264 upper Erwin ledge N 35E 40SE 2869 N 37 07.515 W 80 12.481 Stolithus in place

Thur
DAY

5/1/08
DATE

APPOINTMENTS & SCHEDULED EVENTS

ESN 774 Photo of Massive
8 20' ledge N 20E 40 SE at
0800 notch in ridgeline WP 265
9 el 2873 (29 406)
0900 N 37 07 637 W 80 12 436'
10
1000 ESN 775 Saddle underlain
11 by tan to gray siliceous
1100 mudstone (Upper Hampton)
12 KNOB above 40 SE 150
1200 mudstone N 55 E 45 SE clew
1 of transposed layers
1300
2 ESN 776 Sheared BT basal Erwin
1400 N 20 W 50 SW N 15W 70SW
3 Folded ? WP 266 el 2862
1500 N 37 07.880 W 80°12.303'
4 24506 N 60 E 40 SW - A SE slop
1600
5 ESN 777 Scoritus Ledge
1700 N 10 E 57 SE RSU?
6 WP 267 N 37°07.950 W 80°12.281
1800 el 2847
7
1900 ESN 778 basal erwin N 30E 35SE
8 ledge and shale contact
2000 WP 268 N 3707.720 W 80°12.346'
el 2830

TO BE DONE TODAY (ACTION LIST)

ESN 779 Apparent ledge form
at WP 269 el 2930 N 37 07.596
White grey to Float N 80 12.348
N 30 W 40 SW ledge on other
side of form

ESN 7710 N 30 E 60 SE Shale plunge
S 20 E 45 SE Of site ledge
WP 270 N 37 07 685 W 80 12 265 el 2141

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5/1/08

DATE DAY

DIARY AND WORK RECORD

LHK 211 el 2300'
N 37 07 409
W 80 17 302
mudstone pavement
no real soil just rock chips
on bench

138.9
157.2

DAY 5.7 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800
9 0900
10 1000
11 1100
12 1200
1 1300
2 1400
3 1500
4 1600
5 1700
6 1800
7 1900
8 2000

TO BE DONE TODAY (ACTION LIST)

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May 5 DATE 2008 Mon DAY

DIARY AND WORK RECORD

Bolar Draft (Mill Creek Valley)
el 1755
Sp of Black Mill boro
mudstone with strong slaty
cleavage along State Road 600
mile 5 of High 39
WP 272 N 38° 04.150 W 79 54.705
Strike N 25 E 70 SE dip
(Cleavage) no bedding

Box 1217 1.2 miles S of 3°

Back Creek 1, Back Creek
Millboro shale OCS in Creek
Bedding strike N 55 E dip 80° NW
on Thin un cleave Black lime mud stones
El 1663 WP 273 W 79° 52, 188
Joints N 45 W 86 NE N 38° 07.478
spaced 6-10' apart

133.6 leaving

photo Dam at 139.8

mile 145.4 olive Drab

turn at 147.1 on 603
west Park to bridge on 600 at 147.8

152.1 tan brown weathered shale
157.2 shale dk. gy.
N 44 E vert
wp 274 1927 N 38 23.05
Back Creek 2 W 79 41.389

250 600 162.9
Millboro crosses 250 1/4 mi SE of
intersection
dark grey shale too
weathered to sample

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE.

DAY May 5 DATE 08

APPOINTMENTS & SCHEDULED EVENTS

8 0800 185.9 milage
on 250E passed McDowell about 4 mile
9 0900 #1 Head waters
WP 275 ele 2722
10 1000 N 38 19.531 W 79 26.526
11 1100 220.8 Agusta Sp wet lands
12 1200 225.4 on 60
ESTALINE VALLEY EV1
1 1300 WP 276 2508 N 38 05.727
W 79 19.047
2 1400 Very stiff black fissile
Mudstone w slaty cleavage
3 1500 N 80 E 35SE
Abundant Pyritized Graptolites
4 1600 milage 234.4 Little River Rd
EV2
5 1700 WP 277 1478
N 38 03.039
6 1800 W 79 23.804
7 1900 end milage 369.6
8 2000

TO BE DONE TODAY (ACTION LIST)

May 6 2008 - EII Fronto Cl
SPL IR0181C1 7615
Black Mudstone w/ pen.
cleavage from new lot
excavation on Arrington
Bedding (Isoclinally Folded?)
N80E 23SE at WP 278
N37 13.208 W80 21.164
Stream Chosley Mileage 2 mi

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May 6 2008 DATE DAY

DIARY AND WORK RECORD

SPL IRO -191,903
WP 280 e
fd NS 10 E
N 37 13.242 W 80° 20.829
150
16
900
50
2400

162.9	162.9	
133.6	157.2	
29.3	5.7	

May 7 Shipped 6 miles
6 miles
12 mile

DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800
9 0900
10 1000
11 1100
12 1200
1 1300
2 1400
3 1500
4 1600
5 1700
6 1800
7 1900
8 2000

TO BE DONE TODAY (ACTION LIST)

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1/09/09 DATE DAY

DIARY AND WORK RECORD

ESN 3216 318, 38 NE thin bedded shly dol beds 1/6" w/ dk gray argillite beds w/ slaty clevage

ESN MM breccia / w/ red sh horse blocks, over lies massive gray dol w/ aburdant synthetic and antithetic fractures, spring on hillside before WP

WP 374 el 726
N 37 14 667 W 80 09 027

ESN 3217 wp 375 el 1231
N 37 14 832 W 80° 08 994
saddle is karst valley terminated by river, filled w/ alluvial ss tan white sand & cobbles white sand top pale orange pink subsoils. Along RR shly soils to pk on fault contact

ESN 3218 el 1392 WP 376
some chips of shly dol in top soil w/ alluvial / antietam - erwin cobbles in peek a boo terrace
N 37 14 966 W 80 09 153
GLV 971 Family Cem plot in red arg chip soil
ESN WP 377 el 1339 (1282)
N 37 15 050 W 80 09 263
GLV [illegible] at point of ridge red arg / slaty clevage 100 55 N

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE

DAY 11/9/9 DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800

9 0900

10 ESN 311 WP 1000

11 dk brn weath black dolomite 1100
beds form ridge above
12 river ~ 6' bed E-W 225 1200
red and grn argillite
1 chips above ∠ slaty 1300
Cleavage cuts dol
2 N 55E Vert. 1400

3 ESN 312 E W 24 S greenish gry 1500
argillite, thin bedded (∈ wb)
4 spring house at edge of Qal 1600
WP 378 N 37 14.998 W 80 09 535

5 1700 ESN 313 N65E 32 SE massive
6 grn dol in stream at 1800
WP
7 cg a/ fan sed above 1900
WP 379 N 37 14 847 W 80 09 512
8 a/ 12 18

2000 ESN 314 Ledges of interlayered argillite and dol. N 65E 34 SE

TO BE DONE TODAY (ACTION LIST)

(CWP) WP 380
deep turn hole in river
N 37° 14.831 W 80 09.622

ESN315 WP 381 N 37° 14.834' W 80° 09.185
N80E 42 SE
dk grn black xline dol ledges
argillite above (∈ wb)

ESN 316 mass dol N 65E 40 SE
below argillite in cut up 387

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DATE DAY

DIARY AND WORK RECORD

ESN 316 N 37 14 361
W 80 09 869

ESN231 N20E 30SE est strike of dol layers in thin bedded ledge in middle of Roanoke River below Prison Site / Transter WP 383 N 37° 14 985 W 80°09.645 e 1944 (1100 6) Elbrook Contact

GLV891 N80E 70' to SS at stream level thin bedded to massive dolomite along SE margin of big pinnicled area visible From 460 layer in Flattening above to about 35° in Footwall == complex Struct of Max Meadows

ESN317 ledge of slaty cleaved argillite form prominent topo nose fol N70E 80SE at WP384 N 37° 14.950 W 80°09 966° greenish gry and reborn pyll

ESN318 Chilhowie Blk Terrace Outcrop at WP 385 @ 1197 N 37 14 908 W 80 09.905 plenty skeletons & lobes

ESN 319 WP 386 N 37 14.817 W 80 09 531 Gry 135 42 NE thin lam argillite w/ fol cover along RiverNP Rd below ~15' above river bluff beron just landed @ 240 p

PORTABLE UNDATED TWO PAGE-PER-DAY REFERENCE

Friday 1/09/09

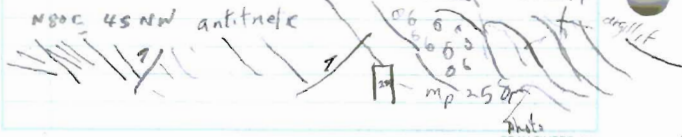
DAY DATE

APPOINTMENTS & SCHEDULED EVENTS

8 0800 ESN 3 110 wp 387 N 37 14. 899 W 80 09. 114
laminated yellow orge dolomite
9 0900 and gray green argillite in
30 high cut strikes 300 42 NE
10 1000 or N60W 42 NW. about 100' E
thicke bedded Cherty Ls
11 1100 with pink marble balls
12 1200 ESN
up to 6"
1 1300 across forms gently dipping
ledges (300, 10 NE) inset
2 1400 with at least 2 cave openings
3 1500 Karst in window (horse)
4 1600 or collapse structure?
5 1700 tan weathered 150E 405E
6 1800 slaty clay
7 1900 at end of cut
8 2000 ESN 319 crenulated tan argillite
and gray shaly dolomite
300 10 SE

TO BE DONE TODAY (ACTION LIST)

Explore zone WP 388
at 1262
N 37 19 366 W 80 09 076



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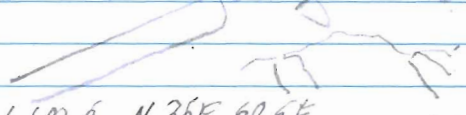
March 1 2008

ESN 842 redux WP 155

ESN 324W N 37 08.585 W80°12.139

N30E 65SE massive ledg. 10' thick on W side of ridge is b'main Erwin ridge former. beds along E side are thinner bedded w/ more scolithus as syncline plunges 5W of limbs peel off ridge to E



SE LIM 6 N35E 60SE

March 3 2008 Cove Hollow el 1820

ESN291 silicified Fault breccia blocks ~ 1-2' dia along woods road at WP 156

N37° 12.550 W 80° 10.511' el 1964

ESN532 red sh Flt w/ olcerous mtg tape expression is semi circular bench at WP157

N37 12 455 W80 10 482 c 1994 1990

WP158 N 37 12 424 W 80.10.412

ESN533 gray to tan silicous sh/ph

N20E 45NW OC in stump hole WP158, 2150'

ESN 534 N30E 10 NW
1' Fine grained qtz arenite
ledge at WP 159
N 37 12 458 W 80 10.293
el 2140 b 2812 GP

ESN 535 This fan is
largely pebbly
qtzite from near
ledge above
WP 160 el 2078 2080 b
N 37 12 529 W 80 10 168

ESN 292 yellow och calc shale
Cer float on Ridge spur WP 161
N37 12 544 W 80 10 300
el 2124 2040 b

ESN 293 Argillite, slaty, gray-grn
clear N80E to E W & 20 SE
in roadembankment
adjacent to Dearstad at
WP 162 1679 1800 b
N37 12 630 W 80 10.456

ESN 294 shale/slate, red
org in matrix
Foliation 5 70 E to Cleavage
85 N W

March 1 '08 Elliston
cold breezy
ESN 8811 pebbly qutzite
ledge outcrop in cut on old
road N55E 40NW many
fractures qtz veins (tension) 0
N60E 60 NW bed?
N10E 55E Cross N20W fert iron
N8E 45 SE (clear)
ESN 8812 Another big pbl
ledge N30E 35 NW
pbls sheared and flattened
long axes trend
N5W 5 lineation stretched pbl
ESN 8813 Trail crosses side
drainage begins ascent in slaty
argillite chips & oil (-En ?)
ESN 8814 2 qtzite ledge, no bedding
ESN 8515 Cleavage in paper
thin slaty argillite (massive ledge)
N45E 55 SE Finally Got GPS WP 148
N 37° 08 .240' W 80° 11.84' 2812
ESN 8515 Fine grained white,
lithe qtzite float N45E 15 NW
blocks in scree slope have scolite
ESN 8816 Redux - alt check WP 149
N 37 08 293 W 80° 11.659

March 1 '08 Elliston e/20006
ESN 847 Massive pink to
white nitreous qtzite
repeates to SW 330 38°SE
de WP 150 e/3292
N 37 08 500 W 80° 12.1½

ESN 848 thin bedded schi
bearing ledge N10E 65 NW
at WP 151 N 3708 460 W 80°12.205'
e/ 3284 3264+

ESN 849 N15E 65 SE thk
bedded scalitbus ledge forms
hog back ridge WP e/ 32006
WP 152 N 37 08.338 W 80° 12.228
3245 GPS

ESN 871 2nd ledge
crossing ridge line N50E
36 SE OTO WP 153 e/3083 3149
N 37° 08.212 W 80 12308

ESN 872 photos of thin
skoltus burrowed beds
WP 154 N 3708 243 W 8012.253
e/ 3126 3160+
N50E 40SE

ESN7915 Fractured Qtzite outcrop, Scolitnus float on hillside. Main ledge strikes N60E dip 22SE Fe cemented fractures here are continuous with silified breccia towards Fault line WP 138
N 37° 08.247 W80° 13.206' E 2598

ESN7916 Massive Fractured Qtzite N30W 60 NE ledge on Ridge at WP 139 E12623
N 37° 08.283 W 80° 13.117'

ESN7610 gray shale bank N25E 30SE cleavage WP 140
N 37 08 43 W 80 13 205 2356

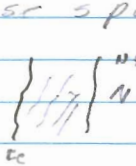
ESN 7611 gray shale thin ss orange weathering N 45E 60 SE in Road cut at WP 141 el 23306 2389 GP
N37 08.402 W80° 12.864 scolithus float on rd
END OF ROAD AT PROPERTY LINE
ESN7612 at stream WP 142 el 2212 2175
N37° 08.549 W80° 12.755' sh OC in stream Thin bedded ss & sh N35E 65SE

el 2591

ESN 7917 4' thk bedded white vitreous qtz ite ledge. holds up ridge N45E 50SE WP 143 N 37° 08.227 W 80° 12.986' 6 mm dia sc olithus in FH EL 2200 ± 21 18

ESN 7918 Massive ledge is highly fractured in breccia zone N10W 21° SE WP 142 N 37° 08.110' W 80° 12.314

close spaced fracs N40W vert



ESN 785 less 100' down hill is a prospect trench 6 X 15' & 5' deep in breccia residuum WP 145 el 2333 N 37° 08 098' W 80 13.342' 2141

ESN 786 Red and Grn slaty argillite chips in tree row 2080 2018 in saddle WP 146 N 37 08.057 W 80° 13.43

ESN 787 cleav in slaty arg N50E 70-75 NW WP 147 N 37° 08.003 W 80° 13 473'

2-27-09 Ellistan Cold, VA

ESN 781

N 82 E 22 NW bedding in steeply cleaved gr slaty argillite WP 135 N 37 08.162 El 1950ft W 80° 13.840

ESN 782 el 2064

thk to thin crinkly lam gray dolomite in Rome N 28 E 28° NW at WP 136 N 37°08.109 W 80° 13.721

ESN 783 el 2200

3' Rd Argillite bed on Fold crest at WP 137 N 37°08.166' W 80° 13.701' plunge N 30 E 10° SW

W limb N 10 E 20 NW

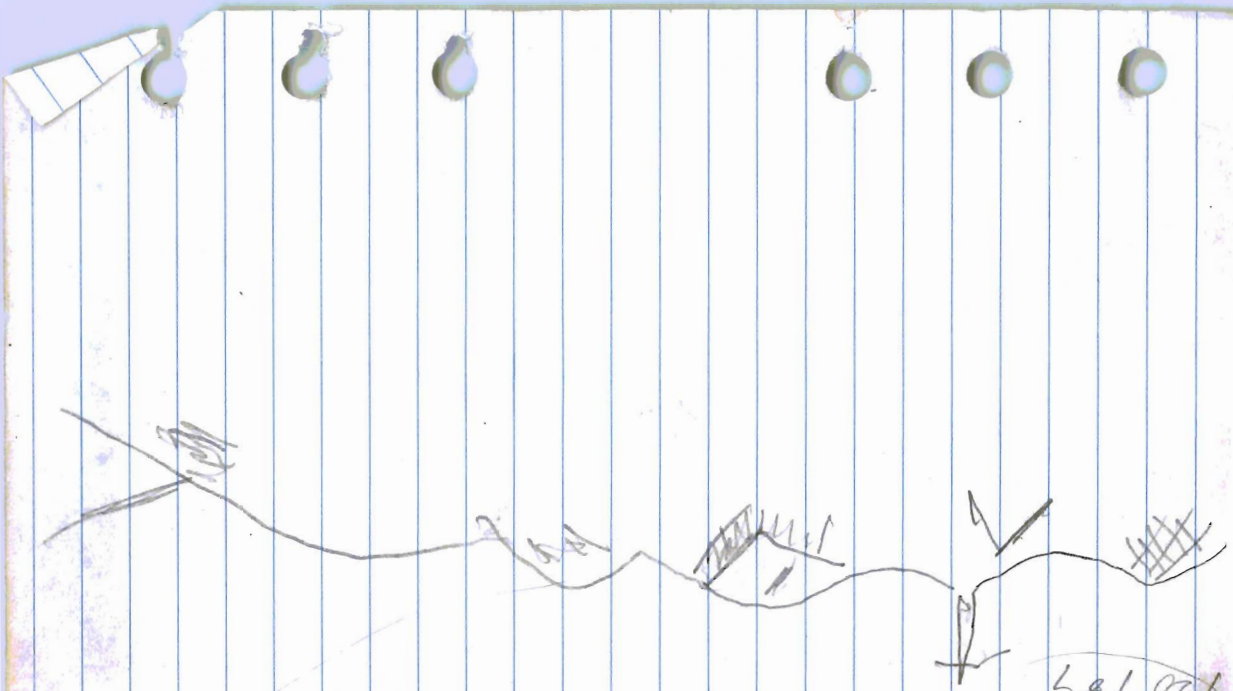
E limb N 18 E 8 SE

ESN 784 el 2104

saddle marks boundary between ground of Rome and Erwin

Erwin qtzite begins Talkow w/ upper N 37° 8.171 W 80° 6.407' loadermen

12/20/21



Elliston Quad

2/20/08 3.1 miles E

ESN 714 Air strike from Powerline ridge to S. N 15 W 38 NE at least 50' ledge w/ broad talus slope below, another ledge is poorly exposed near rim or ridge crest

ESN 733 N 50 E 65 SE dk gry humpton shale along powerline at WP 99 N 37° 09.668' 3176 W 80° 12.293

ESN 736 E W 15 S brecc bed above Fault line photos ~ 20' above stream 2100 ft el 3285 N 37 09 . 287 raining now W 80 12 . 831

ESN 737 Rome N 55 E 55 SE lato WP 100 N 37 09 541 el 1771 WP 101 W 80 12 201

2/21/08 Boone Hollow 7mi log

ESN 741 WP 101 N 37° 08 689 el 1852 W 80 14 362

Rome Red Slate N 55 E 60 SE

WP 102 ESN 742 N 37 08 . 519 W 80° 14, 274

EL 1864 N 50 E 65 SE black dol 75' wide on hill

2/21/08

ESN 751 dk gy micrite on ridge N25E 60 NW @ WP 103 N 37 08.603 W 80° 13.941' el 2015

ESN 752 dk dusky rd / grn / gry slate N 20E 63SE Blk dolon shoulder WP 104 N 3708.637 W80 13.899 2121 (e/sl)

ESN 753 Rd + ylw + grn slate N 25E 2318 64 2292 70 SE WP 105 N 37° 08.645 W 80° 13.621 Tag on line AP CO multiple Grains

ESN 754 Rd + Grn + Ylw slate in logging landing N 60E 64 NW at WP 106 N 37° 08.726 W 80° 13.424 el 2162

ESN 755 large block of white-light gry qtzite breccia thru scree slope w/ abundant white scolitus bearing quartzite blocks + bldrs

ESN 761 E 2290b oc of impure ss f, sltsn + phyllite (greenish weathered drab gray, chippy N30W 30NE WP 107 N 37° 08.822 W 80 13.304 el 2211

ESN 762 2400b lt gry sil. sltsn N 10W 70 NE WP 108 clean N50E 38SE N 37 08. 929 W80 13 21

ESN 763 el 2560 b no Oc
on sh1 knob some small
4 qtzite bldrs 2588
N 37 08.853 W 80° 13.206

ESN 764 el 2620 b Ledge of med bedd
med - Fg white skolithus bearing
qtzite skolithus
indicates RSU bedd
N50W 80 NE WP 111 N 37 08.852 W80 13.204

ESN 765 el 2900b WP 112 Sh1 Knob
N 37° 08.776 W 80° 13.007' el 2851

ESN 766 el 2899 top spot elelevation
20' Skolithus bearing qtzite caps
knob at WP 113 N 37° 08.765'
el gp 2892 W 80° 12.947'

ESN 767 Vertical skolithus bearing
qtzite ledge N 10 W ver
el 2590 b WP 114 N 37° 08.664'
3026 W 80° 12.078'

ESN 768 N 80 E 50 SE qtzite
ledge WP 115 el 3000 2840
N 37° 08.652' W 80° 12.144'
ES 769 Sh exp in road at curtain back
WP 116 N 37 08686 W 8013 230 2389 N 40W 46 NE

Spring WP 117 el 1784
N 37 08.391 W 80 18.943
breccia in yard above
FEB 25, 2008 CHECK - ELLISTON
CHK 13 black + dk gy arg
+ Metaslst N70E 38SE
at WP
ESN 791 WP 118 N37 07.553'
N80W 30 SW pool W80° 12.898'
in ch at el 1843
ESN 792 WP 119 N37° 07.692 W80° 12.855
el 1950
Dark gray massive bedded arg
w/ dark qtzite layers N60E 60SE
ESN 793 6' white qtzite crossing
creek large scree slopes above
N49+50E 43 SE ledge some
skolithus float 6m r/o OC el 2058
WP 120 N 37°07.801 W 80° 12.829'
ESN 794 10' qtzite ledge on
SE side of valley N30E 45NW'
big scree slope to NW WP 121
N 37° 07.842' W 80° 12.790' El 1884

ESN 795 slope is OC at WP 122 el 1996
N 37 07.871 W 80° 12.797'
scolithus bearing qtzite ledge
N35E 33 SE

Wolters / Deposit -
Rick Law / Himalaya 1987

Pinteral Flow as Extrusion
melamorphic
zone of inverted metamorp.
= SRA
25/50 °C /km

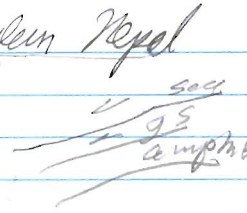
3-400 °C /km spl by spl

Channel Flow model
driven by difference in
overburden - isostatic
load gradient

incremental normal thin (↑)
incremental shear ////
squeezing - pure shear

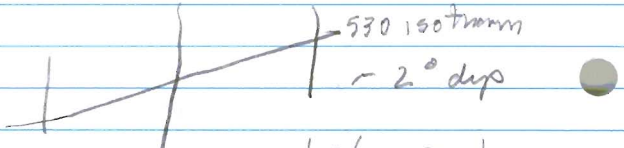
need a free surface
for pure shear to take
effect -
need 100s of km of sh

problem Nepal



1) Telescoping Isotherms

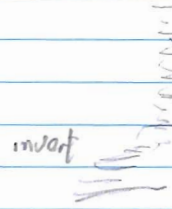
Qtz preferred orientation - developed parallel on axis of deformation
opening angle w/ increasing temp
increases w/ depth
convert t → t
500° to 650° C



Telescoping isotherms

Strait Vert shortening requires
250 to 1 strain ratio = ultra
mylonite
Actual Strain ratio: 2-1

Particle Paths



Thermobarometry peak pressure

90 - 100 Km 10° dip 200 atm

Ridged grains

10 to 30% stretching must go to surface

Focal of vorticity (depth portion

Cones at interior of flow
50%-60% pure shear
35% es

40%

base 55-60% pure shear

Feb 25/08

ESN 796 el 2311 WP 123
N 37° 07 897 W 80° 12.838
Qtzite dip slope OT? scoliths
Float beds N60E 38SE

ESN 797 WP 124 el 2299
N 37° 07.903' W 80° 12.912'
shale chips above dipslope

ESN 798 Pink to gray white Vit.
qtzite N 40 E 35 SE WP 125
N 37° 07.967' W 80° 12.983' 2433
[illegible]

ESN 799 Pink to gray white vit Qtzite
N45E 42 SE 6' ledge WP 126
N 37° 07.966' W 80° 13.020' el 2600

ESN 7910 White-pink vitreous
qtzite ledge N60E WP 12
N 37° 07.944' W 80° 13.081' 246

ESN 7911 silified cataclasite Float
limonite/wad exploration
pits along ridge at WP 128
Rude layering N30 E55 NW
el 2371 N 37° 07.807 w 80 13.185'

ESN 7912 more iron pits in residual soil of Sil. cataclasite WP 129
E2327 N 37 07 .739 W 80 13 13

ESN 7913 discontinuous block field of silicified cataclasite and breccia blocks along ridge and E. slope from (11). Rude layering or Foliation NS 35 W
Ocherous yellow, orange, and red chalcedony or jasper cement w/ gtzite breccia and limonite, goethite and wad matrix in middle of body WP 130
N 37 07 562 W 80° 13.165 el 2253'

ESN 781 N45E 24 SE? Ledge of coarse xline dk gy weathered light gray to white dol w/ hematite? Typical deep red shady dol soil zone

ESN 782 el 2050 b NS 15 E
Pos bedding in sacheroidal dol, wh
WP 131 N 37° 07.709' W 80° 13.329' el 1935

2/25/08

ESN 783 Rome Red slaty argillite oc WP 133 el 1987
N37 07621 W80°13.372
c/a & vage NS vert dol below ledge n 20E 75 SE

ESN 7914 WP 133 el 2165
N37° 07 573 W80° 16.313
Massive to lam gry to white x/l dol ledge 3' thick N60W 15 SW

CHK 133 limonite pit on saddle at WP 134 el 2150
N37°07.474'
W80°13.191' Rude layer N35E 45

CHK 134 View to SE shows reclined or recumbant fold hinge outlined by qtzite ledges on steep slopes above creek

10/11/12 Additions to

Numbers to convert ACT AD 09-2365

37 09 244	80 14.454
3707.734	80 13.133
3709.999	80 12.462
37.15407	80.24098
37.12898	80.21888
37.16665	80.20782

Elliston 2/11/09

ESN 1315 black shale saprolite in road at turn, chips back to crest of NW ridge. SW ridge held up by white qnatzite ledge 20' thick WP 073 (sh)
el 1510 N 37° 14.697 W 80° 12.713'

ESN1316 WP 074 20' thk qtzite ledge dip slope N55 ES el 1581 N 37° 14.677 W 80° 12.66[illegible] bedding at NE end of OC N70E 33 SE is not os

ESN1317 photo of massive limestone ledge in sawmill ck hollow

ESN1318 Photo of qtzite ledge where it crosses powerline el 1384 WP074 N 37° 14.647, W80° 12.767 overturned bedding cleavage N85E 30SE

el 1431
ESN1319 borrow pit in Mill Gap on PL cleavage in Dm N55E 42SE back there N35E 22 NW WP 75 N 37° 14.688' W 80° 12.925' pts N10W 85SW highly crenulated

Elliston 2-11-09

ESN 1319 gray sh (Ort) or sl chips beneath qtzite on this nose WP 77 N 37° 14.592 W 80 12.840' el 1351

ESN 1320 N 60E 65 SE dk gry argillite and slt sn interbedded typical Db from gully to river air strike on bluff N 80 E 10 WP 078 el 1355 N 37° 14.464 W 80 12.

Bridge on old river bed not passible due to high water

ESN 1321 WP 079 N37 14.630 W80 12.844 . small Karst area below Sc hill probably in top of Ort Filled with bldrs of Sc some ogl. O

2130 Millboro

ESN 2130 paper thin black shale clean N5 10W at head of drain - Om ? WP 080 el 1460 N 37 14 915 W 80 12 329 Photo of concrete drain w/ dessolation crusts

ESN 2131 NS 15 E el 152
thick cgl qtzite beds
on top of Knob at WP
Photo of outlyer or synclinal
shield WP 081 N 37° 14.966, W 80° 12.304
2112/09 Wimmer Farm ESN 125
N55E 10NW Massive bedded
silt stone/argillite sequence
n stream, Stream deposits
a bove. WP082 el 1256 N37 14536
W80° 13.466'

ESN 126 WP 083 N 37 14 690 W 80 13 573
massive bedded dk gray siltsn
argillite sequency some v. Fg
ss ledges el 1327

ESN 127 WP 084 el 1476 N37 14467
W 80 13.449 Flat lying D6 siltsn
argillite sequence in trough
joint set N30E vertical N20W co Sw

ESN 128 WP 084 N 37 14 498' W 80° 13.532
N70W 10SW el 1491 lite olive gray
argillite, thin clay stone bds
minor Fossil ss beds 1" tk on bench of

2/12/09

ESN 129 el 17606 thk bedded ltgl-lvr grn ss w thin (mm) blk qtz rich layers = base of Foreknobs Fm WP 085 N 37 14 895 W 80 13.616 el 1722 Next ledge (photo) to SW has 1" foss. layer, some qtz pebble cgl Float above

ESN 1210 thk bedded fg lt grn is gray graywacke N 50 W 12 SW at el 21306 2083 GPS WP 036 N 37 14.999 W 80° 13.673

GLV 784 yellow orange arg chips on flat, SS + Cgl (rare) Float - very Fossiferous here. WP 087 N 37 15 157, W 80 13.77 el 12315 2360 ft

ESN 1211 el 1999 gps 20006 WP 088 N 37° 14.978', W 80 13.596' yellow weathered argillite + SLSTN Chips in trail, just below Coarse cgl float on steep slope

NOTES

March 30 clear cool breezy

ESN7825 18206 Ls N55E 80SE in stream bed covered w/ gtzite blders

ESN7826 el(1960b) WP 276 N 37°09.321' W 80°12.979' .1903 Large block of FeO stained silicified breccia in Stream Cross

ESN7827 WP277 N 37.09.2[illegible] W 80 12.88[illegible] 2051 el Deep red clay silt soil In hollow, road crosses drainage at el 2000b Old Ford Tractor and Chevy dump bear tracks (Photo) more silc breccia Float, Fine ss/s/t gravel in residuum

ESN7828 Karst like hollow no diag gtzite debris el 21206 Knob and saddle 30 above

ESN7613 WP 273 N37 09.091' W 80°12.927' el 22214 / 22206 angular blk of cg grnish gry meta gtzite breaks cleanly across Sand grains forming knife like edges ledge near old road Brown and gray siliceous sh on road at el 22306 ~30' above WP at el 22257 N 37°09 078 W 80°12.915'

ESN7614 24006 WP 273 el 23258 N 37 08 909 W 80 12.804 dark gray clay sh w/ slaty clean and tan weathered Burrow mottles. Bds N 30 E 18SE clean 270 75 S

ESN7615 WP 280 25206 (24806) N 37 08 792 W 80 12.879 Antigac Bulldozer park at Switch Ln entrance/erosion ledges ~ 50' above Form talus slope to road

Day Runner

NOTES 30'09 3/30/09

ESN 76 16 Trailer site at el 2480b
Great view of Christiansburg
Blacksburg / Effett Valley
WP 281 el 2648 N37°09.010' W 80°12.826'

ESN 76 17 Erwin ridge el 2635, 2660b
WP 282 N45E 23SE Massive gray
N 37 08 973 gtz arenite beds w/
W 80 12 768 thin x beds or laminata

ESN 76 18. N 3709.078 W 80° 13.153' el 2145
WP 283 red residuall clay w some
21206 shf sap, many cobbles
of residual dol breccia
(very low grade ochreous
breccia)

ESN 76 19 Deep residual clay soil w cobble
WP 284 size chunks of silicified
p limonite mineralized breccia
r Possible dump ~ 15' 6' high
o 30' long. N 37°09.060'
s el 2143 W 80° 13.126'
p Probably shady dol resid.
? Just past half track dump

ESN 75 12 Red and grn arg ledge
trends across the road at N50E 85SE
(BPC) WP 285 N 37° 09.237 W 80 13.371
el 2096 (20506)

ESN 75 13 Prospect pit 50' by 6'
WP 286 by 4' deep on hill side el 2104
N3708.999 above road. Blocks of (21306)
W 80° 13.331 Silicified hematite mineralized
Item # 013-200 Jasper

Elliston (ESN) 5/14/98 / L

ESN 361 rome? xtlw grn-gray phyllite
N-70E 20-25 SE est
Bldr cgl W 2' clasts poly metic in old debris flow
ESN 362 N60W 26-32 ESN 363
N82W 80NE N85E 70NW
Black fg xline dolomite thin red mudstone
ESN 364 N38W 15NE on dol // sh ms contact in waynesboro sh ms from bridge to sta 363 N25W 15NE
ESN 391 dk grnish gry aphanitic metabasalt N52E 20SE aparent layering closely jointed unical? CIMP
ESW 392 dk gry ves. meta basalt ves + amygdules up to 9mm contact w/ fine grained. ss at el 1610 baro.
ESN 393 el 17406 2' x bedded lithic arenite N 50W 48SW.?
ESN 394 N56W 24 SW cg, thk bdd lithic arenite at turn 18006
ESN 395 fg spheroidal green ss on oc on road
ESN 396 highly cleaved grn shale (breccia) then massive metabasalt flow - med-fg stoic; N60E 35 SE
ESN 397 N70E 19 SE el 2000 TUFF layer

ESN 398 Large spl of Volc breccia above
2nd Flow From ESN 396 Flows ~50 thick
2nd top @ el

ESN 399 N55E 20 NW dipping channel
beneath a flow? buff clay sh - fill

ESN 3910 N35E 17 SE fig
gray grn phyllite saprolite
top of basalt has tuffaceous
fine sandy beds at 2060 on road
ESN 3911 el 2080 spheroidal weathered
meta basalt Flow laminated tuff
at 2100.

~~ESN 3912~~

ESN 3912 sh/y interval at turn

ESN 3913 2180 another basalt flow

ESN 3914 N30E 35-40 SE ss/sh contact
ss fg blk+wh weathered 2250 sh/bedding tops SE

ESN 3915 el 2280
top of flow

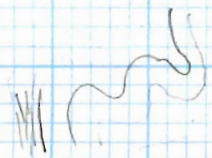
ESN 3916 el 2250 ~20' Flow

ESN 3917 el 2290 at curve phyllitic ocs
N76E 30SE

ESN 3918 Vesiculated Flow el 2340 N45E
00SE cleavage in ss

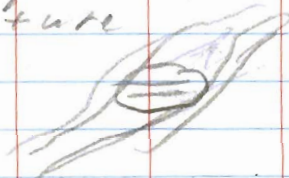
ESN 3919 at corner, Tan sh + blk ss

ESN 3920 N80E 18 plunge of chevron
similar folds Ap N48E 50SE



ES 3921 N50E 72 NW Fault w/qtz
fibers indicating ⊙ to NW
N76W 80 NW

ESN 39 22 cg gray SS cl 2450 N40E 30
ESN 3923 N50W 20 NE cl 2550 dk gry
black weathered carb. silt sh
and sh beds
ESN 3924 N48E 28 NW Fg lam SS + sh
dk - lt grn
ESN 631 ledge of Fg blk M basalt
ESN 632 coarse ss w/ feldspar qtz
musc. - metaarkose
ESN 633 N 28W 16 NE fg lam gray
slate, siliceous Strong cleavage
ESN 634 N 70E 70SE VFg gy volc slate
epidote amygdules 1-2 mm across along
foliation
8/26/98 3
ESN 371 qtz mica phyllite or
breccia N 70E 60SE quartz
clasts in micaceous foliated
mtx qtz clasts have imbricated
structure



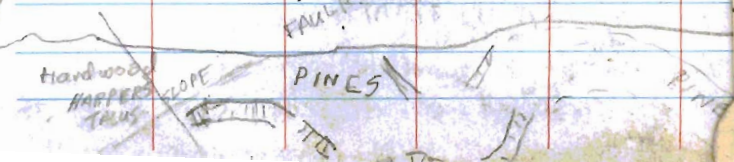
9/28/98 ESN 371 ew vert red + grn
sh + mrock by camp bldg
ESN 372 in stream channel (dry)
Many cg grit and pebbl cgl bldrs

grn fg ard white considerable basalt. In alluvial fan deposit
ESN 373 at el 1800 b switch back on logging road exposed thin bedded grn and reborn weathered fine ss and sltsn. N60E 15 SE SAW 2 DEER
ESN 374 el 1900 soil along road is orange red, fe nodules on slope clay on crests, basalt cobbles in soil ~ looks residual
ESN 375 el 1960 on knob, red fg metamorphic (basalt) chips on saddle then thin ss chips
ESN 376 el 2050 Flat spot abundant meta volcanic float chips and stones up to cobble size, some scoria
ESN 377 el 2100 N45E 38 SE TOP OF VOLCANIC OUTCROPS ON DRAG ROAD lt. BRN - gry SHL + SS ABOVE
ESN 378 el 2160 Top of vesiculated flow across hollow
ESN 379 el 2120 N80E 27 SE, lt gry laminated slst and shale
ESN 625 el 3740 N45E 65 SE OT X beds scour, graded coarse grn - gray ss bed 5(2
ESN 626 el N60E 75 SE thk bd gry fg SS x beds indicate concave asymptotic down
ESN 627 N45E 25 SE RSH ledge qtzite above at 3600 b strdip on dirty qtzite in upper unit below ledge
ESN 628 Photos of ledge looking [illegible]

ESN 629 green-gray fg ss (lower Unicoi) N45E 65
at el 31406 at 82006 N40E 75SE fgl
ESN 630 el 3000 ± 15' [illegible] cgl
Harpers? N35E 10 NW slick surfaces
qtz fiber plunge 12 NW N50E

is this a bed top

ESN 631 N30E 30 NW pebbly qtzite ledge
ESN 381 White qtzite OCS top at 28806
N60E 50 NW, fine - med ss, vitr
prob = Snoden or antetone -
ESN 371 E another vitreous ledge possible sed
ESN
ESN 372 E ledges opposing on knob seem over
1
ESN 373 E pebbly ss float at end of
seems to be down into the unicoi again
ESN 374 E N80E 35 SE White Vitreous qtzite
ledge cross road at 27006
2680 ft on power line N65E 17 SE
ESN 375 E cross bedded White to gray peb
ledge at 26006, punky fine, brown
to olive gry weath volcanoclastic ss
below at el 25006 N30E 40 SE Pl



ESN 6212 N35E 25 NW FAN 1ft brn
laminated ss or s 1fsh
6213 N35E 32SE cg x bedded ss
ESN 6214 Orange meta vol sap - fg
spherodal ; phyllite in part
gentle dip to S
ESN 6215 N30E 25 SE dk gy - black
laminated slate. Slaty clean N30E 70
ESN 651, N25E 45 NW fg gray ss tphyllite
cleavage steep to SE
ESN 652 N36E 52 NW thn bedded ss
parting in mass gray ss stream
bed
ESN 653 N65E 52 NW x bed gray ss
very thk bedded
ESN
ESN
ESN 661 coarse granitoid sap w epidosite
and fine amphibolite (meta diabase
dikes or layers
ESN 662 poor foliation in hbd granofels
ESN 663 N55E 28 NW layering in leuco
granulite saprolite ~ grading up into
lot gneiss or airpoint granite
ESN 664 tan leucogranofels sap, grn amph, pink
K-spar = altered granulite N20W 30 SW pos.
foliation

ESN 654 N55E 50 NW basal breccia, angular and rounded pebbles and cobbles of granitoid

ESN 655 N55E 54 NW layered grn and pink layered granofels & leuco granulite gneiss

ESN 656 10/20/92 - clear, brook, cold wind, Mk minnows, leaves, rustling above. Pink & green cg leucogranitoid oc - large rounded gr + qtzite cobbles in stream

ESN 657 N60W 75 NE thick bedded pyx granulite gneiss ocs at bridge

ESN 681 (A) is cg amphibolite? dike.

ESN 681 (B) is mg amphibolite

ESN 681 C is pink and green granite massive, unlayered NS joints N60W 85NE joints N35E to NW joints

ESN 691 N45W 60's SW ledge of gray equigranular granitoid, med grained

ESN 692 N70W Vertical shear cleavage in med gray med-cg leucogranitoid in stream bank

pink and grn bld granitoid subtle banding N80E 10 NW ledge to E of above.

ESN 634 rounded hillock held up by gray green vesicular chl mass phyllite / gs highly cleaved N60E 65 SE

ESN 635 rounded basalt blds on upper end of escarpment at el 28[illegible]

L 10/29/58

ESN 636 N30E 19 NW med-cg grnish-gray qtz wacke massive - thk beds, spheroidal weathering Buck secn in saddle, Snort, to below What is that noisy bird? cook cook - cluck-cluck) Loamy Fg ss + basalt below, rip up, coffee grounds (black carbonaceous mtl)

lisagang stains

ESN 637
N60E 60 NW wh/lt gy weath qtz wacke mass bedded poor bedding el 2550 b
el 2540 - 30 N55E 55 NW

ESN 638 N55E 30 NW joints ll bedding? dirty weathering wacke w/ 6' spheroids Weathering blders in OC el 25 10 b

ESN 639 Cabbin on ~~basalt contact~~
N40W to dtzite ridge el at cabin 2800b
cabin built from basalt and ss

ESN 3930 el 2830 ss OC N30E 15 NW
qtz Fibers on beds N55W 14 top moved

ESN 3931 NW el 2860 b (15' correct)
cg im pure ss blder on knob

ESN 3932 at 2nd trailer site new well at
el 2760 b cut ss + basalt (

ESN 6310 Spl of vesicular basalt from regolith on ridge road

9/10/99

ESN 992 N55E 60SE cg sheared leucogranite of Bottom Ck Suite

ESN 993 N50E 73SE bedding of clea. N40E 28SE slip cleavage, spaced

ESN 994 N45E 40SE bedding in Cg ss meta cgl cleavage N55E60 = RSU

EC

Dan 831-6710

8-10-00 DANV

E-W 28° North