

INDIANA DEPARTMENT OF
NATURAL RESOURCES
GEOLOGICAL SURVEY

611 NORTH WALNUT GROVE
BLOOMINGTON, IN 47405

4001-0235

Mon 1 Aug 2005

Location $\rightarrow$ Moore

Purpose $\rightarrow$ GPS in core sets

People $\rightarrow$ Todd + Brian

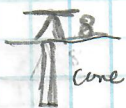
Weather $\rightarrow$ hot + clear sky, upper 80's

Site

SDH 391

R2005080109A

Note:
antenna
height handled
by GPS

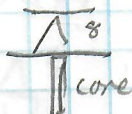


4336616.565
542306.589
929.963

Site

SDH 386

R2005080110A

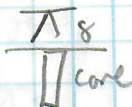


4333199.463
524974.911
859.795

Site

SDH 387

R200508011A

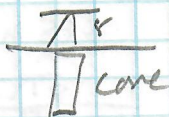


4333753.855
526980.460
843.955

Site

SDH 389

R200508011B



4331891.744
535652.746
944.915

s.6 SDH 390

R2005080112A

$\frac{\pi g}{\text{core}}$

4336223.888
535428.761
939.642

s.6 SDH 393

R2005080112B

$\frac{\pi g}{\text{core}}$

4340074.571
530914.425
960.391

s.6 SDH 394

R2005080112C

$\frac{\pi g}{\text{core}}$

poor config @ 7.46
corner fine
4343275.308
527696.702
843.171

s.6 SDH 395

R2005080113A

$\frac{\pi g}{\text{core}}$

4347925.829
526543.620
804.221

s.6 SDH 392

R2005080113B

$\frac{\pi g}{\text{core}}$

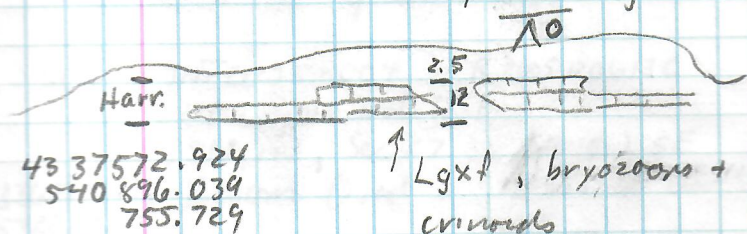
4344988.388
535139.521
829.237

Tues 6 December 05

Location → Bloom 45/46 bypass
 Purpose → GPS + measuring site
 People → Todd + Brian
 Weather → cold, sunny, some snow flurries

Site: TAT 2005-001 R2005120612A
 Don Carr outcrop
 9N, 1W, Sec 28 SW, SW, NE
 Bloom Quad ~760 ft

W Using new GPS, antenna height E
 set in GPS to 8 ft, corrected by GPS to tripod base



Site TAT 2005-002 R2005120613A
 State Police Post
 Sec. 28 T9N, R1W NENE SE
 Bloom Quad elev ~ 800 ft

4337530.026
 541 384.421
 797.996



Across road is
 a bryozoan outcrop
 of Harr. Placed control
 @ base of this one.

Lgxl
 crinoid of
 gnd + bry

Site TAT 2005-003 R 2005120613B

Across from ID Foundation

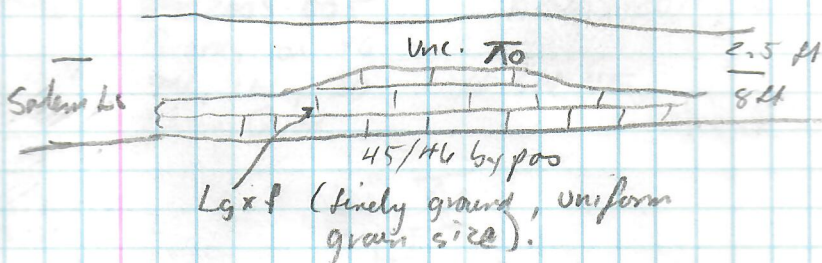
9N, 1W, 27, NE SE SW

Bloom. Quad. ~ 870 to 865

4337124.079

542284.808

862.020



Site TAT 2005-004 R 2005120613C

45/46 by pass water tank

9N, 1W, Sec 27

SE SW SE

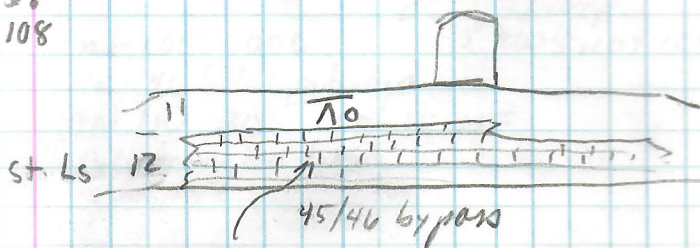
4336719.354

542627.58

884.108

Bloom Quad

~ 885⁻⁸⁹⁰ elev.



In

542

Thur 7 Dec 05

Location → 46 to Ellettsville
Purpose → GMS outcrops
People → Todd + Brian
Weather → sunny, cold

Site

2005-005

R2005120712A

Quarry on 46

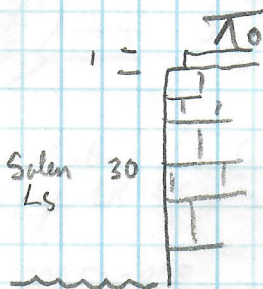
9N, 1W, 30, SE SW NE

Bloom Quad

4337706.8

537751.0

762.7



across road
from last
outcrop.

Site

2005-006

12 2005120712B

New 46 Solen outcrop

9N 1W 30 SE SE NE

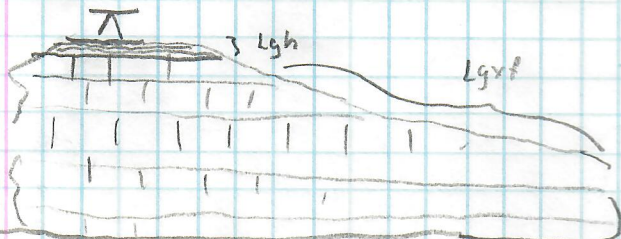
Bloomington Quad

4337618.2

537646.0

786.3

St. Louis = 3



46 ↗

Site

TAT 2005-007

R2005/207 13A

Small drainage east of 46

9N, 1W 19

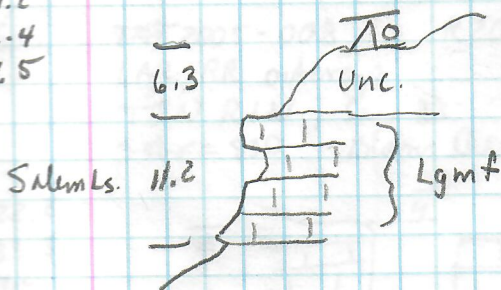
NW SW SE

Bloom. Good.

4338724.2

536912.4

759.5



Some Solen in drainage on other side of SR 46.

Site

TAT 2005-008

Thur 5 Jan 06

Location → IU Campus
 Purpose → GPS in outcrops
 People → Todd + Brian
 Weather → overcast, 30°S

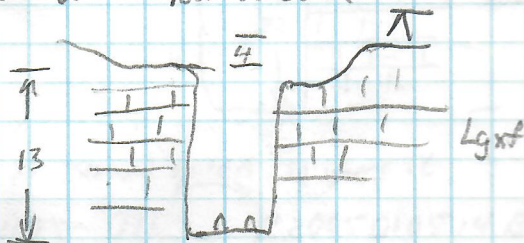
Site TAT 2005-008 R 2005 01059A
 LAR RR outcrops
 T9N R1W, Sec 33 swd to lig NW SE NE
 ~ elev = 830 Bloom Quad

4336222.2

541233.3

841.2

Salem
Ls



Site TAT 2005-009 R 2005 010510A

Fer lone + RR outcrops
 T9N R1W, Sec 33 NE SE NE
 ~ elev = 820 Bloom Quad

4336215.8

541542.8

819.2

Lower Salem Ls



(crinoids,
 planispiral
 gastropods,
 rugose + fenestrate
 bryozoa, some
 planispiral
 gastropods have
 borings)

Site

TAT 2005-010

R 2005 0105 10B

Jordan Ave / Lawler RR overpass

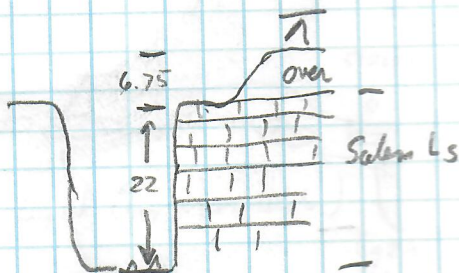
T9N, R1W, Sec 34 SE SW NW

Blount Quad, ~ elev = 850

4336112.0

541890.7

863.0



screwed up 14A, so ignore it

Site

TAT 2005-011

R 2005 0105 14 B

Woodlawn Ave + Jordan River

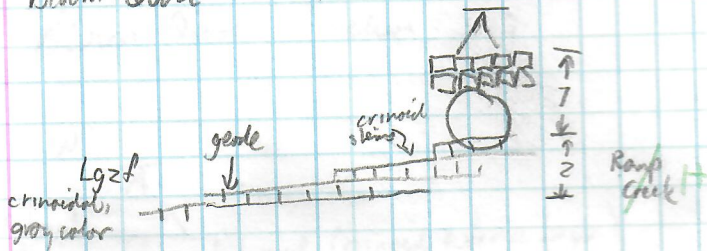
T9N 1W Sec 33 SW NE SE

Blount Quad elev = 755

4335570.4

541156.4

757.9



site

TAT 2005-012

R 2005010514C

W. Idermuth HYPER building

T9N R1W Sec 33

SW NE SE

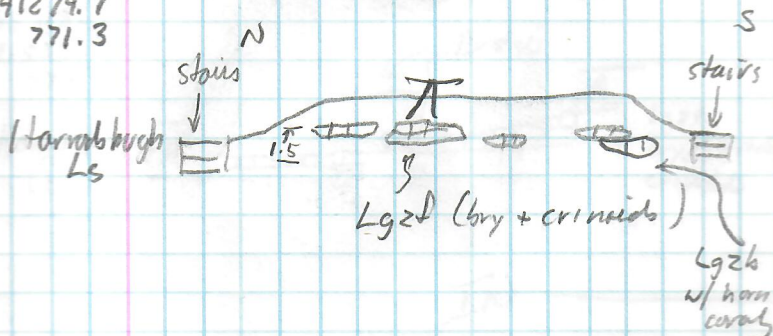
Bloom Quad

~ elev = 780

4335068.8

541274.7

771.3



poor sat. config because of library

site

TAT 2005-013

R 2005010514D

On Jordan Ave across from library

T9N J1W Sec 34 NE NW SW

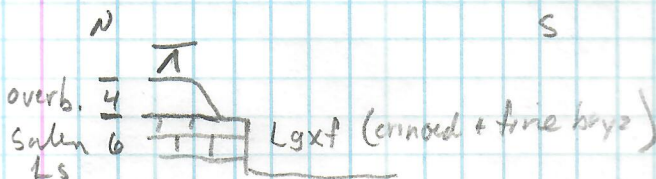
Bloom Quad

elev = 810

4335822.4

541857.4

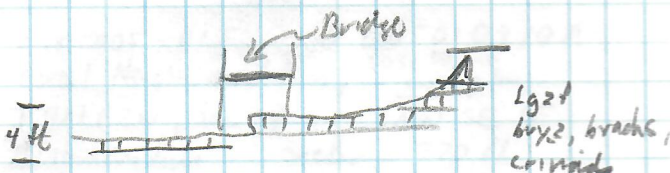
813.1



JAT 2005-014 R2005010515A
Bridge to Bryan House on creek
T9N R1W Sec 33, NE SE SE
Bloomington Quad elev = 775

4335313.3
541534.7
770.1

Harr/RC
Ls



IN —————

Mon 9 Jan 06

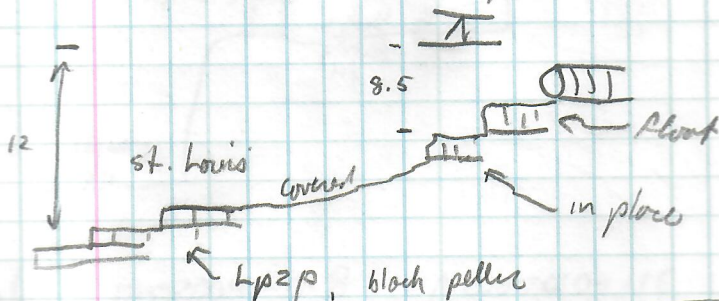
Location → W on 46
 Purpose → GPSing outcrops
 People → Tom + Brian
 Weather → overcast, lower vis

Site

TAT 2005-015 R 2005010910A
 Forest Heights addition, ^{5031 De Ann} small to big
 T9N R2W, Sec 14 NW SE SE
 Bloomington ~ elev = 770 ft

4340157.0
 534943.7
 774.4

In tributary to Jacks Dept Creek



Site

TAT 2005-016 R 2005010911A
 4691 Brookbank in trib to J. Dep. Cr
 T9N R2W, Sec 14 SW SW NE
 Bloom Quail ~ elev = 750

small # of
 points because
 low in drainage
 + low satellites
 [90 pts]



4340925.835
 534455.1 731.0

site

TAT 2005-017

R 2005 0109 11B

Behind abandoned antique store

T9N, 2W, Sec 14 NE NW NW

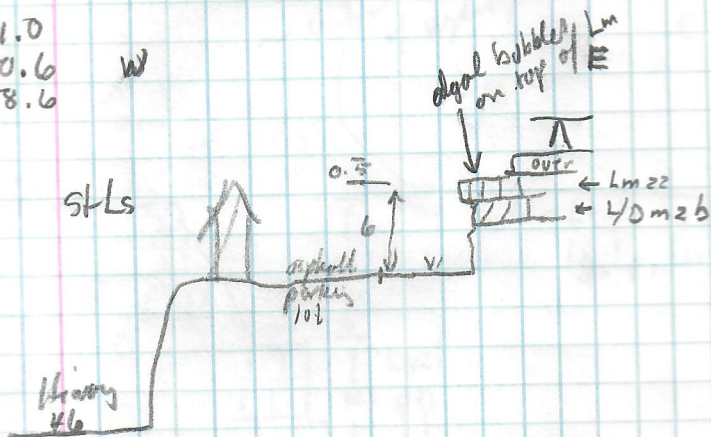
Bloom Quad elev = 760

4341631.0

533850.6

758.6

W



site

TAT 2005-018

R 2005 0109 11C

4583 Hart Street Rd, S of Ellettsville

T9N R2W Sec 15 NW NE NE

Bloom Quad elev = 730

4341639.7

533239.4

732.7

St. Louis



ignore 12A



site

TAT 2005-019

R 2005 01 09 13A

Bybee Mill quarry

T9N, 2W, Sec 3

SE NE SW

Bloom Q ~ elev = 700

~ control in floor of upper pit

E

St. Louis

Salem Ls

10.25 weathered Lg, Lp, Lw

Lg2f

12.5 90

4343801.3

532477.1

700.0

site

TAT 2005-020

R 2005 01 09 14A

Maple Grove near intersection w/ Rhinestone

T9W R2W Sec 2

NW NW SW

Bloom Q

S

N

dirt

1.25

overburden

11.25

Salem Ls

4343996.0

533635.2

715.9

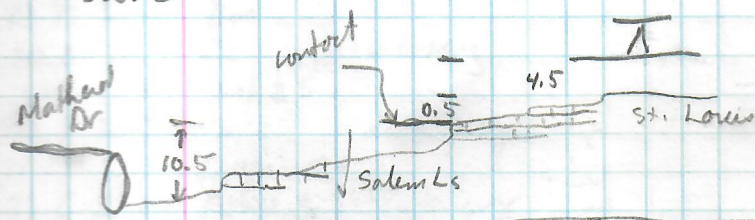
Wed 11 Jun 06

Location → Elizetown + west
Purpose → GPS ing outcrops + core sites
People → Todd + Brian
Weather → drizzling, cold in low 30's or more

site TAT 2005-021 R2005011110A

Creek along Vine Street
T9N 2W Sec 10 SE NW NW
Whitehall Quad ~ elev = ~ 705

4343033.1
532255.6
688.2



site TAT 2005-022 R2005011111A

Big Creek Quarry, core B1.
T9N 2W, Sec 17 NE NE SW
Gaspard Quad

4350061.3
529395.7
717.6

Antenna was 9.5 ft, corrected in
GPS

See next page for description of
Big Creek office in poor lighting

0-11.4	Zzzz	Not recovered
11.4-13.0	Dmh2z	light gray
13.0-14.6	Fth2g	calcareous
14.6-17.1	Lmh2z	
17.1-17.55	Fb m	calcareous
17.55-18.0	Lm	
18.0-18.9	Fb	calcareous
18.9-21.2	Dmmg	
21.2-21.3	Fth2i	calcareous
21.3-26.0	Dmh2i	
26.0-29.8	Lm	dark gray
29.8-30.2	Dm	
30.2-30.9	Zz	missing
30.9-32.2	Dmh2s	
32.2-32.25	Fb	dark gray
32.25-33.2	Dmmms	
33.2-33.35	Fth2s	dark gray
33.35-33.55	Dmhmg	
33.55-33.7	Fth2s	dark gray
33.7-34.5	Dmmmg	
34.5-36.55	Fth2i	dark gray
36.55-43.1	Dmh2s	
43.1-50.4	Lmh2z	
50.4-52.0	Lah2i	
52.0-56.2	Lgmfs	Solun Ls
56.2-57.1	Lphfs	
57.1-119.3	Lgm/x f	
119.3-120.5	Dmh2s	calcrete filled vugs
120.5-133.15	Lghfs	organic Da @ base
133.15-133.9	Dphfg	

much less ground than above

133.9-137.25 Lgh f!
137.25 140.55 Dp/w/f!
140.55 144.8 Lph f g
144.8 146.0 Dsm 22

End of am @ 146.0

site

JAT 2005-023

R2605011114

Abt RR on Woodyard Rd

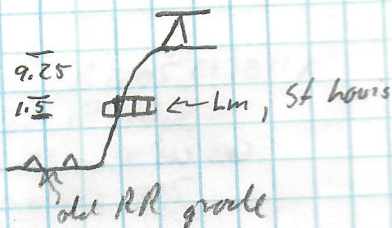
T9N R2W Sec 23 SE SW SE

Blond Quail ~ elev = 790

4338769.2

534663.8

788.6



Thurs 12 Jan 06

Location → E of Spencer
Purpose → GSPS outcrops
People → Todd + Brian
Weather → Sunny + warm

Site

TWP 2005-024 R 2005 01 12 11 A

McLormech Creek SP 1st bridge

T10N R3W Sec 23 SE 34 NW

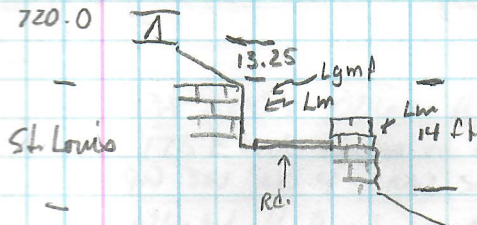
Gospport

elev = 725

4349080.0

524326.0

720.0



50+ ft more
no Salem
outcrop or St
Gen Contact

Site

2005-025

R 2005 01/12/2A

McCormick Creek Abandoned Quarry

T10N R3W Sec 22

NENE NW

W

4349543.064
523095.360
588.133

9.6

St. Louis

Salem

23.5

Site

TAT 2005-026

R 2005 01/12/3A

175E rd across rd + drainage up hill
9W 3W Sec 4 NW SW SE E

W

Whitchell Blvd ~ elev = 655

4343689.6

521836.1

655,034

38.75

ste.
Gen.

Lmm

Lmm (crystalline)

Lm

Lgx/r o (w/ qtz grains)

stream level

spring

fell Tracy

spar mtn

side

TAT 2005-027

R 2005011214A

Ss in ditch

7N SW Sec 16

NE SE NE

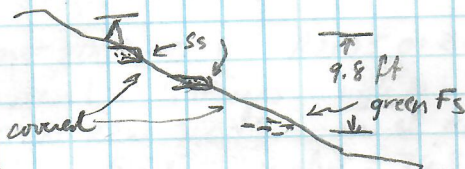
Whitetail Creek

~ elev = 800

N

S

Elwren



4341220.2

522251.3

792.5

based on
elev + green Fs

Tuesday 20 Jan 05

Location $\rightarrow$ N. Maple Grove + Lost Man Lane

Purpose $\rightarrow$ GPS survey outcrops

People $\rightarrow$ Todd + Brian

Weather $\rightarrow$ partly sunny, breezy in 50°s

site TAT 2005-028 R2005 01209B

Lauren Ln drainage $\xrightarrow{\text{little to big}}$

T9N R2W Sec 13 NW SE NE

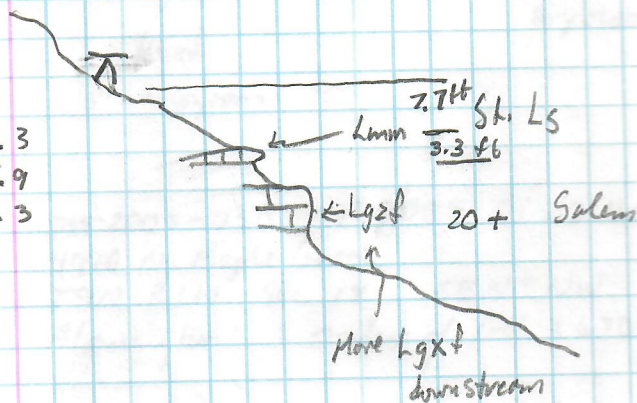
Bloom Gorge $\sim$ elev = 765 ft

Tough GPS because of trees overhead warning

4340941.3

536485.9

780.3



side

TAT 2005-029

R 2005 012010A

N Market Dr bridge

T9N R1W Sec 18

NE NW NW

Bloomington

~ elev = 710 on bridge

E

W

4341417.1

537053.0

711.4

Salem

Harr.

Bridge

Lgzt

Lgzt

bryozoans

crinoids
w/ a few
bryozoans

side

TAT 2005-030

R 2005 012011A

4910 N. Maple Grove

T9N R1W Sec 18

SE NE NW

Bloomington

~ elev of toll = 670

4341431.8

537433.0

672.4

NW

SE



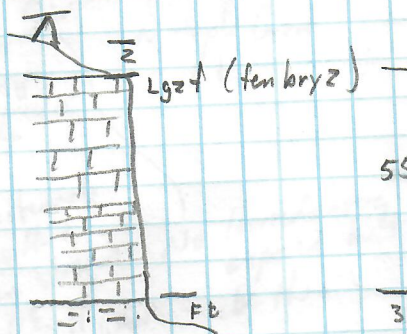
Mon 23 Jan 06

Location N Maple Grove
Purpose APSens outcrops
People Todd + Brian
Weather Sunny, (clear + 40s)

Site T2005-031 R2005012311A
Drainage N of W Maple Grove Rd
T 9 N R 2 W Sec 1 SE SE NW
Bloom Oval water = 690 to 705

F

4344152.4
535860.5
691.7



55 14

3+

Site

TAT2005-032

R2005012312A

Along N Maple Grove, $\frac{1}{4}$ mi N of Lost Man Ln.

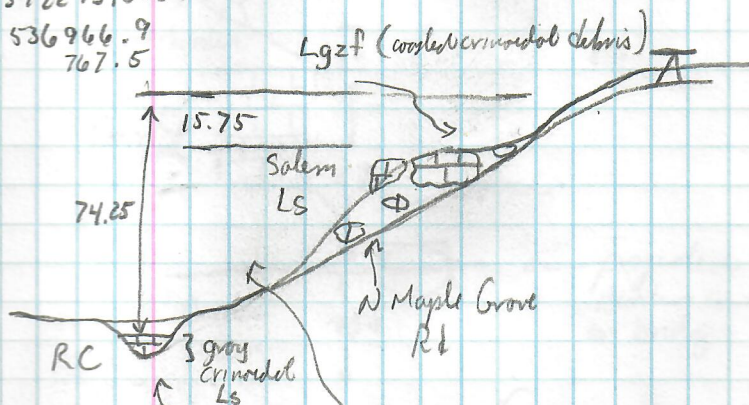
T9N, R1W Sec 7 NW NW SW

Bloom Wood elev = 760-780

4342243.070

536966.9

767.5



add. channel
30 ft +
in stream
NE of
Maple Grove
Rd.

No Harrodsburg
exposed but must
be there

5.25

x 3

15.75

52.50

68.25

+ 7

75.25

- 1

74.25

side

TAT 2005 - 033

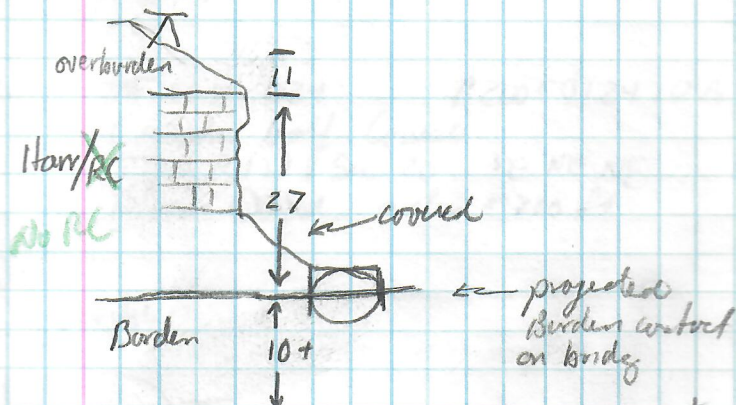
R2005 0123 13A

Acuff Rd Outerloop

T 9W R 1W Sec 20 NW NW NW

Bloom

~ elev 690-700



4339955.0

538346.8

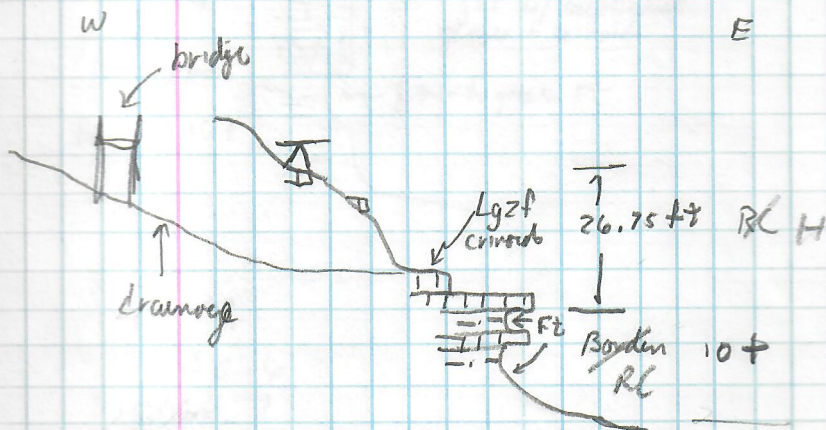
688.4

absent 1 RC mat
clean due to cone
BDK 3/09

Tue 24 Jan 06

Location → Cascades golf course area
Purpose → Alluvial outcrops
People → Todd + Brian
Weather → sunny, clear + cool in 40's

site TAF 2005-034 R2005012410A
Cascades Golf Course
TGN R1W Sec 20 SE NE NE
Bloom Overlook elev = 700 ft



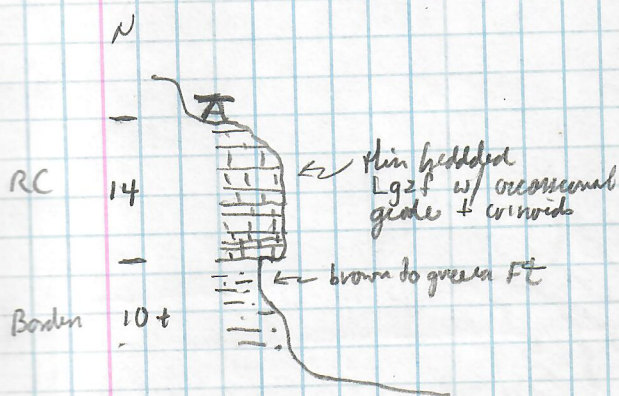
4339612.1
539686.0
697.2

Site

TAT 2005 - 035
Concord E waterfall
T9N R1E Sec 29
Blown Quad.

R 2005 0124 11A

NENE NE



4338338.6

539868.7

687.6

See Monroe I Notebooks for
other outcrops

Tues 24 Jan 06

Location → West of Bloom in Coscoades area

Purpose → GPSing outcrops

People → Todd + Brian

Weather → sunny + cool

Site: TAT 2005-036

R 2005 01 24 13A

Reel Quarry

T9N R1W Sec 29

NE NE NW

Bloom Brook

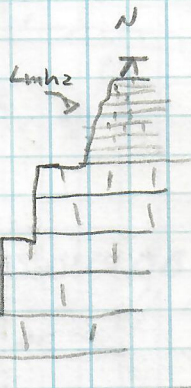
4338182.7

539105.5

816.2

st L. 16.75

Salem 50+



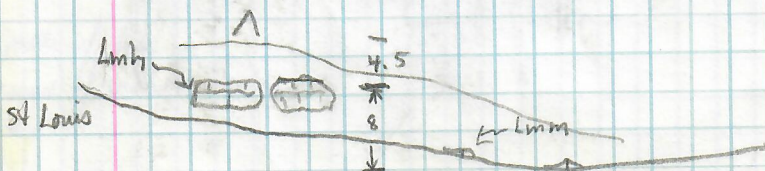
Site TAT 2005-037

R 2005 01 24 13B

Arlington Rd (west 17th Street) @ corner

T9N R1W Sec 29 SE SE SW

2/ Monroe St



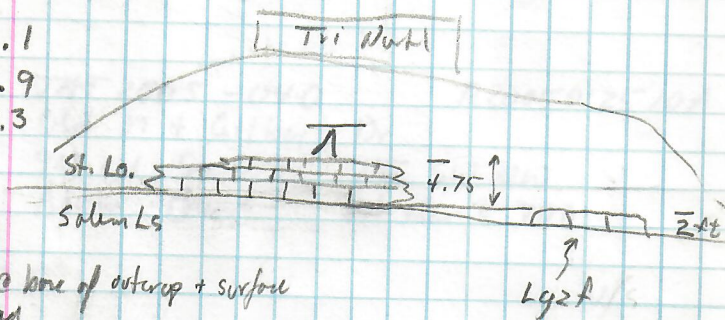
4336825.2

539038.8

806.4

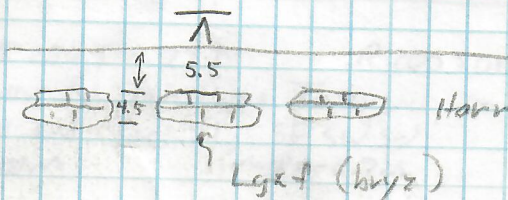
Site TAT 2005 - 038 R2005012414A
 Tr. North + 17th St
 T9N 1W Sec 32 NE NW NE
 Bloom Quad. ~ elev = 800

4336731.1
 539364.9
 789.3



Site TAT 2005 - 039 R2005012417B
 Old 37 N of bypass where it comes off College
 T9N R1W Sec 28 SW NE SW

4337289.0
 540128.9
 730.5



Trouble w/ look
 because of wind + nearby
 trees

Wed 25 Jan 06

Location - Old 37 N W of Bloom

Purpose: GPS on outcrops

People: Tom + Brian

Weather: Partly sunny + cold 30°s

Site

TAT 2005-040

R2005012510A

Old 37 + Gilbert Dr

9W 1W Sec 28 NE SW NW

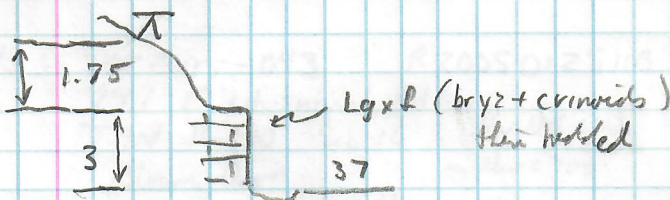
Bloom. Quad est elev = 700.

4337915.1

546304.7 E

720.8

N



Site

TAT 2005-041

R2005012510B

Across Rd from Davis Insurance on Old 37

4338552.2

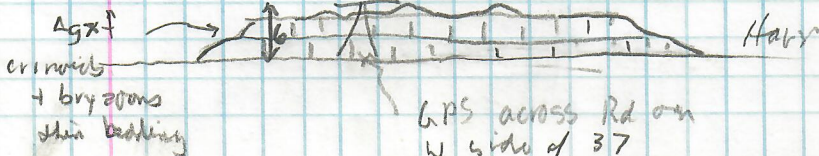
9W 1W Sec 21 SE SW SW

540236.5

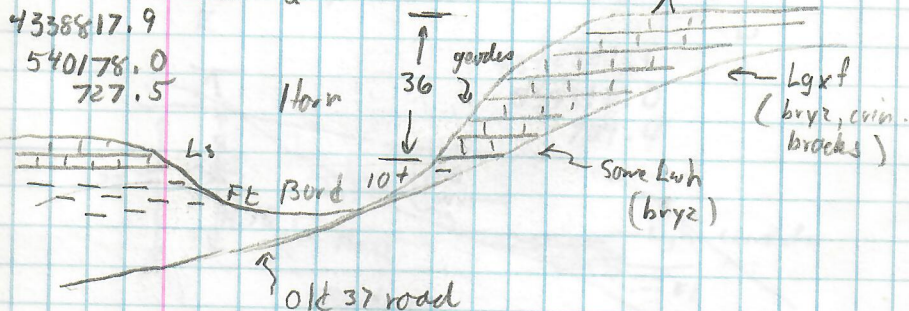
Bloom

elev = 720

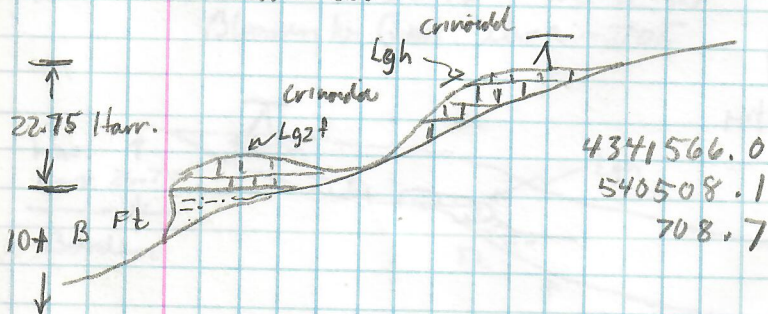
730.1



site : TAT 2005-042 R 2005012511A
 Old 37 hill outcrop (North College)
 T9N R1W 21 SE NW SW
 Bloom Q. ~ elev = 740



Site : TAT 2005-043 R 2005012511B
 797 E Whisnand Rd.
 T9N R1W Sec 16 NN NE NW
 Bloom Q. ~ elev = 700



side

TAT 2005-044

R 2005012512A

5744 N. Business 37

T9N R1W Sec 8

NENE SE

Bloomington Q.

~ elev = 700

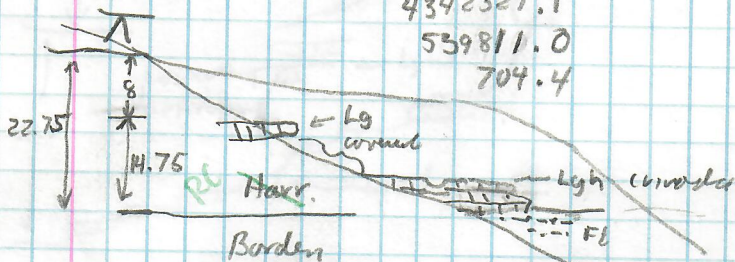
E

W

4342321.1

539811.0

704.4



Site :

TAT 2005-045

R 2005012513A

Road into Martin Hills near creek

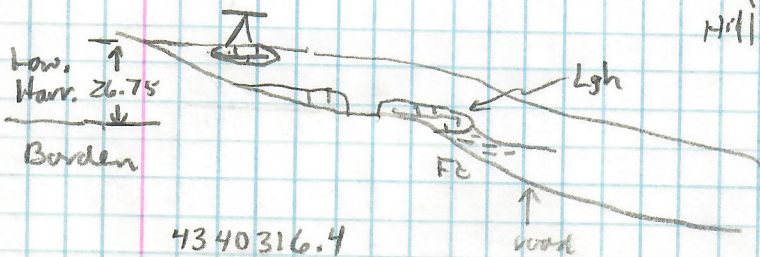
T9N R1W Sec 16

NE SE SW

Bloomington Quad

elev = ~705

26.75



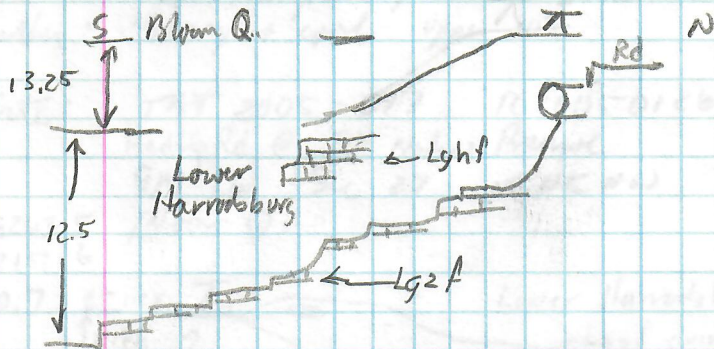
Hill View Dr.

4340316.4

5404911.0

696.8

site JAT 2005-046 R 2005012513B
Bethel Lane drainage, E of Marlin school
T9N R1W Sec 15 NW NE SW ~ 775



4340761.4

542098.9

767.6

Thur. 26 Jan 06

Location : NE of Bloomington

Purpose : GPSing outcrops

People : Todd Thompson + Brian Keith

Weather : sunny + cool upper 30's

Site : TAT 2005-047 R 2005-0126 11A

Hedley Rd @ IV Nature Preserve

9N 1W Sec 27 NE NE NW

Bloom ①

4338263.5

542151.6

770.7

↑ 11.25

↓ 11.75

RD

Lower Harrodsburg

Lgzt crinoidal

ft

Met Hersh Clay w/ students. He took photo

Site

TAT 2005-048

R 2005-0126 12A

4720 N. Old 37

T9W R1W Sec 15

SW NE NW

Bloom ②

S

tripod off of Old 37

drain pipe

15.25

Lgzt

↑ 6

Lower Harro RC

10+

SS

FL

Borden

4341236.1

541539.1

734.4

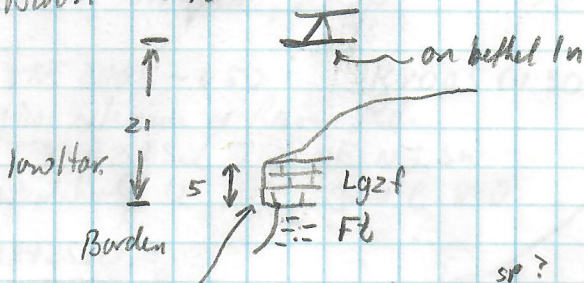
Site

TAT 2005 - 049 R2005012613A

1301 Bethel Lane in drainage

T9N R1W Sec 15 SE NE SE

Bloom ~790



large brachs (rafanogrind)
Brachs in place + in float. Good
location for slabs of brachiopods

4340385.8

543102.6

790.6

Location NC part of Whitehall Quad
Purpose GPS in buteraps
People Todd + Brian
Weather Overcast + cold, damp

$$\begin{array}{r} 800 \\ 34 \\ \hline 776 \end{array}$$

West extension of Reeves Rd.

T9NR2W Sec 7 NE NE SW

Whitehall Q

ques @ 810

26



↑

33.75



4342530.9

527873.9

789.2

Rowd

A close-up of a handwritten capital letter 'A' on blue-lined paper. The letter is formed with dark ink, showing a horizontal top bar and two diagonal strokes meeting at a point. The paper has light blue horizontal lines and a vertical red margin line on the left.

一

Last

$\rightarrow \lg 20$

← $L_{g20/q}$ (Spark Mountain)

TAT 2005-051

R 20055130108

SS on Baker's School Rd

T9N R3W Sec 12 NW NE NW

Whitehall Quad

$$\sim \text{elev} = 850$$

434 3180.1

526137.5

852.1

Better to sample

56.25 ft

sszd

apple

55x

1

B/z (Bryantville)



8.25'

P. 1.

rd surface

from nearby
SDH 3914 this is
all Paoli making
20 ft of the unit

7 Lg20
11.5 St. Ger

Lg20

Lgzo

site

TAT 2005-052 R 2005013013A

6605 Rd near N-S county rd.

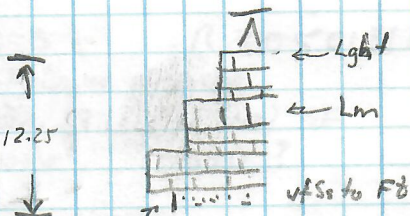
19N R3W Sec 22 SW SE SW

Whitehall Quad elev = 630

Lost corner
@ 144 pts

Ste. Gen.

12.25



Lower Ste Gen above Spar
Mountain. See Revere Rd core @ 120 ft

4338591.0

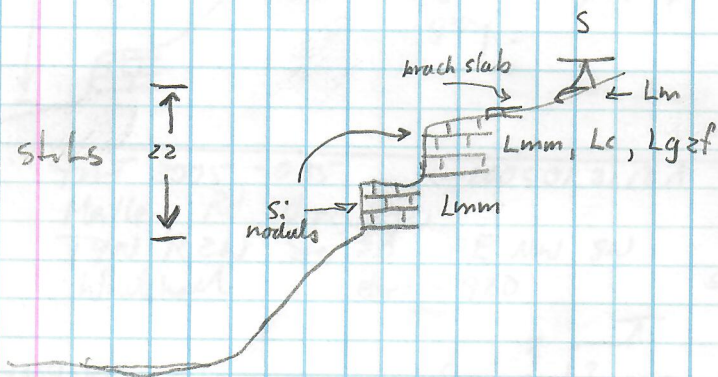
523105.1

618.0

Location NE Whitehall Quad
 Purpose same
 People same
 Weather same

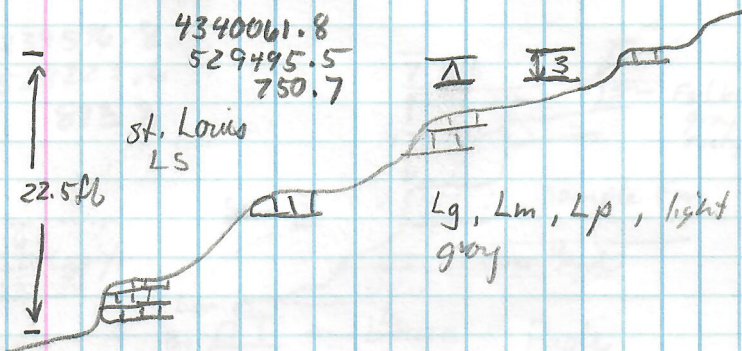
Tues 31 Jan 06

Site TAT 2005 - 053 R 2005013111A
 Rateliff Rd St. Louis outcrop
 T9N R2W Sec 18 SE NW SE
 Whitehall Quad ~ 690 ?



4340666.0
 528079.7
 707.8

site TAT 2005 - 054 R 20050131 12A
 4010 Starns Rd.
 T9N R2W Sec 20 NW NW NE
 Whitehall Over ~ elev 750



site TAT 2005 - 055 R 20050131 13A
 Mallory Rd drainage
 T9N R2W Sec 20 NE NW SW
 Whitehall elev ~ 920



site

TAT 2005 - OSG

R 2005 0131 13B

Mallery Rd 2

T9N R 2W Sec 19

NW SE NE

Whithorn

~ 890-900 AB

4339596.8

528223.6

893.8

unroad

$\frac{6}{5}$

Lg 20/4

road

$\frac{13}{5}$

Paoli 32.5



Ssm

$\frac{2}{1}$

$\frac{7}{1}$ till

47

ssr

sample Fm

Fs (blue gray to rusty tan)

Beaver Bend

Bethel

ls breccia

Paoli

24

8.25

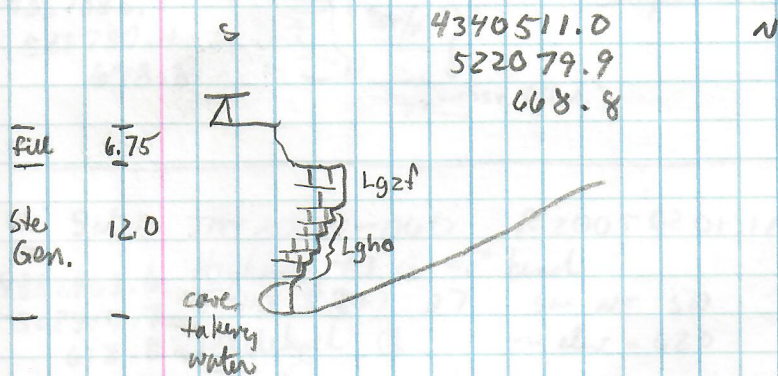
9

47.25

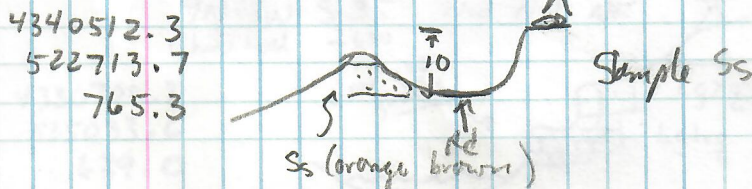
Wed 2 Feb 06

Location : Western Whitehall Creek
 Purpose : GPSing outcrops
 People : Todd + Brian
 Weather : overcast damp + cool

Site TAT 2005-057 R2005020109A
 855 Shenod Rd
 T9N R3W Sec 16 NW SE SE



Site TAT 2005-058 R20050206110A
 RR3 Box 6476
 T9N R3W Sec 15 NE SW SW
 Whitehall ~ 770

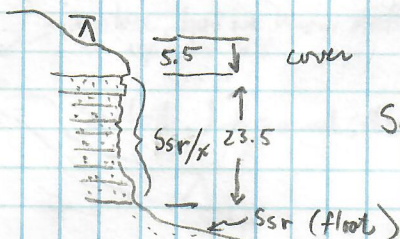


Site TAT 2005-059 R200502011013
 135 E
 T9N R2W Sec 28 SW NW SE

S

N

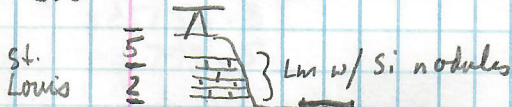
4337385.9
 521750.4
 678.8



Sample Fm.

Site TAT 2005-060 R2005020111A

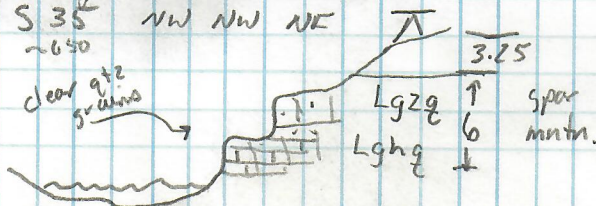
4337461.6 Highway 43 @ 90° bend
 522914.7 T9N R3W 27 SW NE SW
 612.8 Whitehall @ ~ elev = 620



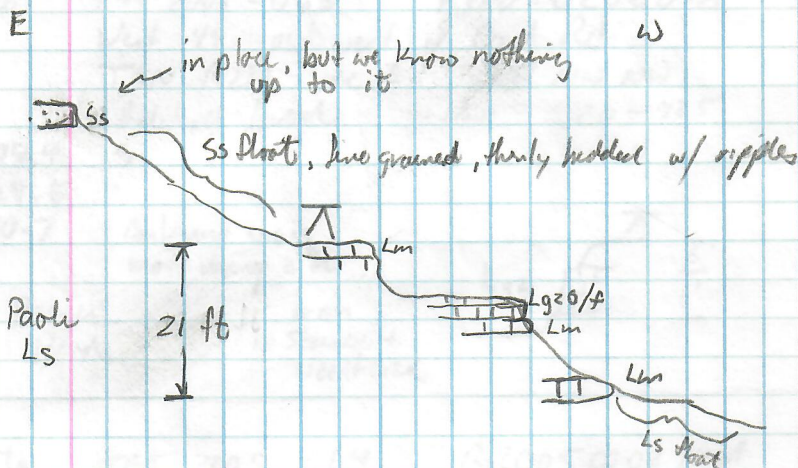
Site TAT 2005-061 R2005020112A

highway 43 on gentle bend
 9N 3W S 35 NW NW NE
 Whitehall ~650

4336700.9
 525033.6
 639.0



site TAT 2005 - 062 R2005020113A
 Rd by Little Flock Church in drainage
 9W 3W S 26 NW NN SE
 wheelhall very app elev ~ 750



4337582.0
 525136.8
 753.5

Thurs 2 Feb 06

Location West 48 + Vernal Ake
Purpose Sand
People Brian Keith + Todd Thompson
Weather overcast, drizzle, 40's
to rain

Site TAT 2005-063 R2005020209A

West 48 just west of Ord Rd

T8N R2W Sec 3 NE NW NW

Whitehall Blvd ~ elev = 920-925

4334978.4

S

N

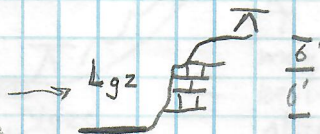
532429.5

910.7

Antenna wrong
move elev. up 2 ft

Beaver?
Bird

iron
stained +
weathered



Site

TAT 2005-064

R2005020210A

7141 W 48

T8N R2W Sec 4 NW NE NE

Whitehall Q ~ elev = 905

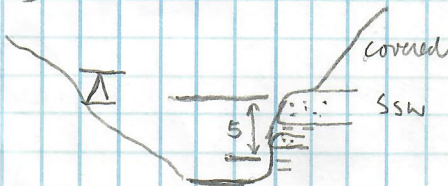
4335004.9

S

N

531706.0

900.9



covered

SSW

Sample

Tues 7 Feb 06

Location → N of 48/43 on west side of Bloom

Purpose → GPSing outcrops

People → Brian Keith & Todd Thompson

Weather → clear, sunny + cool (mid 30°s)

site

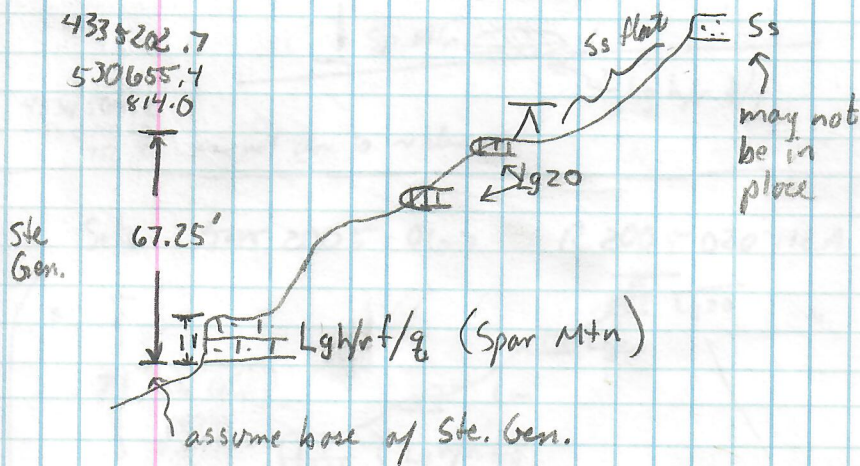
TAT 2005 - 065

R2005020711A

A & F concrete mtn, Altap Mtn.

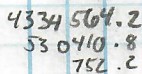
T9N R2W Sec 33 SE SW SW

Whitehall - elev = 820



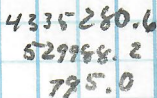
R2005020711B

NE SE NE

$$\sim \text{elev} = 720$$


→ not close to $\sim$ elev

R 2005-020712A



St Louis LS

NE NW NE

"no idea up the hill"
BOK

side

TAT 2005-068 R2005020713A

West Vernal Pike

T9 N R2 W S32

SE SE NE

Whitehall Brook

~ elev = 716

N

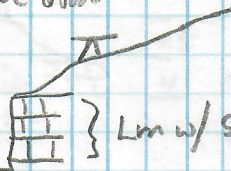
cover

4.25

S

St. Louis

5.5



Lm w/ Si nodules

433616.7

530273.691

704.3

Site

TAT 2005-069 R2005020713B

8205 Vernal Pike

T9 N R2 W Sec 33

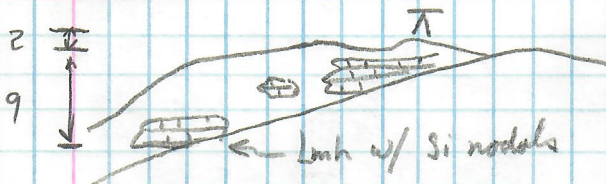
SW NE NW

Whitehall Brook

~ elev = 725 ft AMSL

E

W



4336546.1

530817.5

719.4

site : TAT 2005 - 070
1431 N. Ord Rd

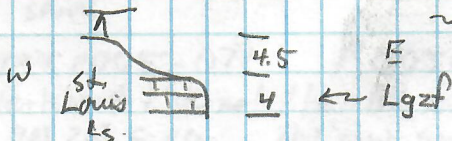
R 2005 02071A

T 9N 2W Sec 37

NW NE NE

Whitehall Q

~ elev = 730



4336586.3

531826.0

733.2

Wed 8 Feb 06

Site : Vernal Pike / Hart straight area

Purpose : A.P. outcrop

Profile : same

Weather : same

Site TAT 2005-071 R2005020810A
Hartstrout + Vernal Pike RR outcrop
9N 2W S 26 NW NW SW

4337444.7

533794.3

836.7

N

S

gray Lm

vt Lg

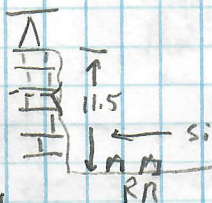
w/ v. small

amount of

black Si nodules

One La zone

about half way



St. Louis Ls.

Si nodules

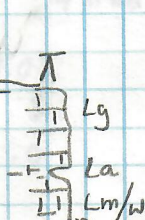
RR

Site TAT 2005-072 R2005020811A

West of Hartstrout on new RR

T 9N 2W Sec 27 SW NE SE (check)

terrace road



Si nodules

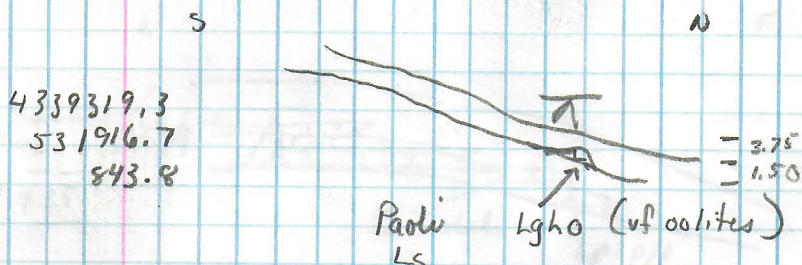
St. Louis Ls.

4337411.1

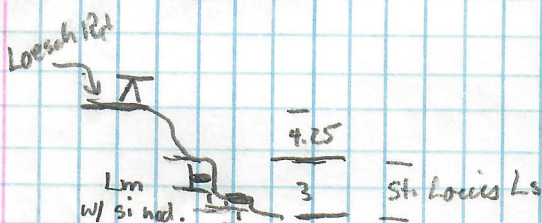
533204.7

823.1

Site : TAT 2005-073 R2005020811B
 3359 Thomas Rd
 9N 2W S21 SE SE NE
 Whitehead 0 ~ elev = 845



Site : TAT 2005-074 R2005020812A
 4554 Loesch Rd
 T9N R2W Sec 26 SE NE SE



4337359.0
 535189.3
 821.0

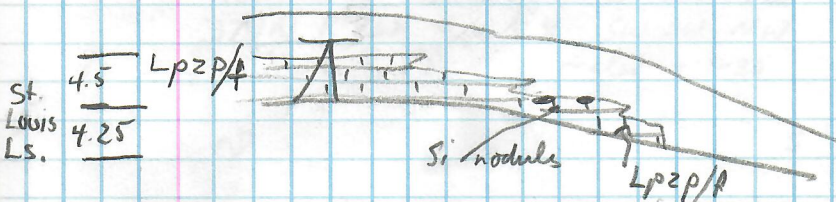
"I guess it will be SE NE SE"
 BDK

Site

TAT 2005-075 R 2005020813A
Woodyard Rd near vernal pike Y
T9N R1W Sec 30 SW SW SE
Bloom Brook elev = 800

W

E



4336836.2

537576.1

800.6

"Some dumbass who shall remain
nameless left the rod in the creek @ the
last outcrop" TAT

Mon 13 Feb 06

Location → Howard Rd. + westward to S of 43
Purpose → same
People → same
Weather → clear, sunny + cold 30°s

Site VAT 2005-076 R 2005021311A
Abandoned Quarry on Howard Rd
T9N R2W Sec 28 SW SW NW
Whitehall Q. elev = 830

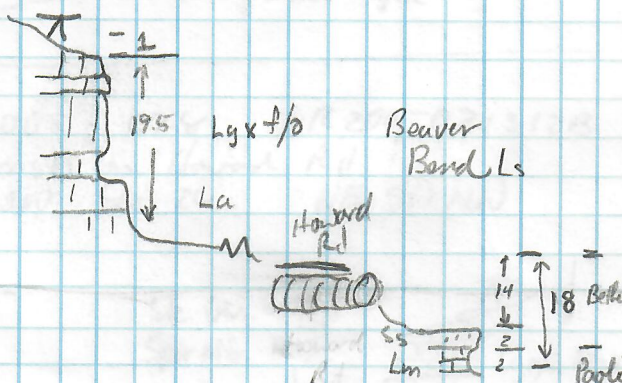
ND

S

4337768.1

536379.1

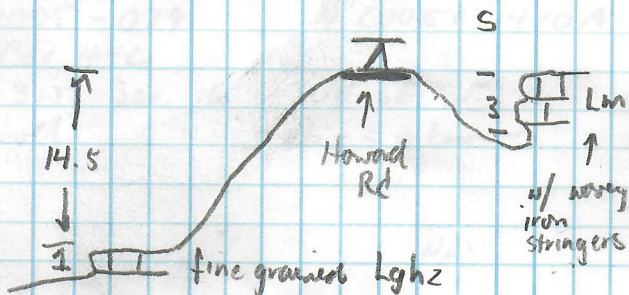
818.8



site TAT 2005-077 R2005 021312A
 Drainage on Howard Rd
 T9N R2W Sec 29 SE SE NW
 Whitehall Over ~ elev = 750

4337847.4 N
 529464.4 —
 747.1 —

St.
 Louis
 Ls
 —

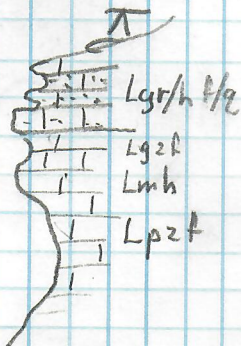


site TAT 2005-078 R2005 021312B
 8890 Parrish on Howard Rd
 T9N 3W Sec 20 NE SW NW

4337899.7
 529049.5
 745.1

St. Gen. ↑
 Spar Mtn 12.3

St. Louis 22 ↓



Tues 14 Feb 06

Location SW corner of Whitehall Oval
Purpose same
People same
Weather clear sunny + cool into 70°s

Site: TAT 2005-079

R 2005021410A

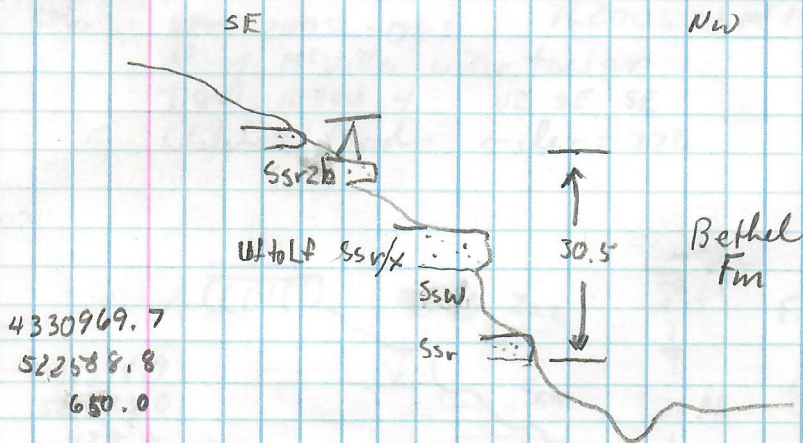
RR3 Box 442

T8N 3W Sec 16

NE SE SE

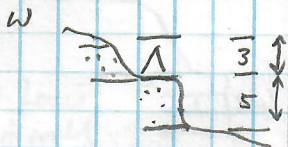
Whitehall

reclw = unknown



site TAT 2005-080 R2005021411A
 900n S of McVile by 3/8 mi
 T8N 3W S9 NE SE NE
 Whitehall Quad ~ elev = 746

4333280.4
 522581.3
 752.7



Sample
 Fm.

site TAT 2005-081 R2005021411B
 N of McVile water tower
 T8N R3W 4 NE SE SE
 Whitehall Quad ~ elev = 770

4334074.9
 522573.0
 778.8

A

Z22

Ssm

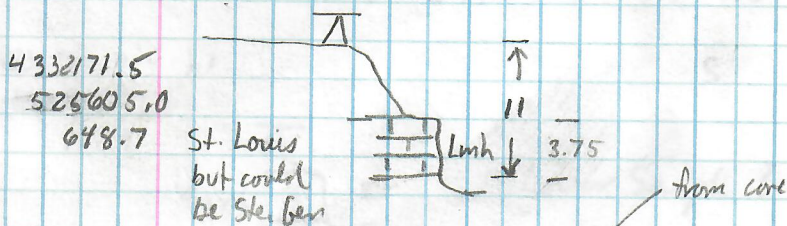
14.25

21 PL

Fill

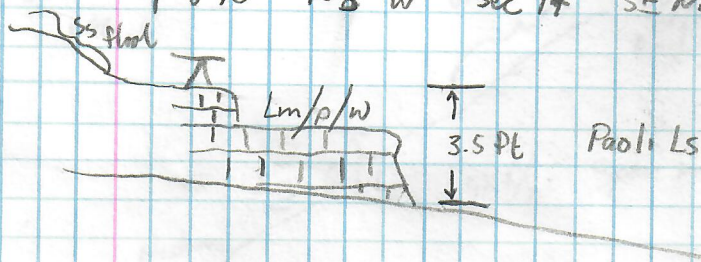
Sample
 Ss

Site : TAT 2005-082 R 2005 0214 12A
 Liberty church rd @ Hendricksville
 T8N 3W Sec 11 SW SE SE



Cove around corner to NW has Lm w/ Si
 nodules + bed. Too thin for St. Louis so
 must be fine unit in Ste. Gen

Site TAT 2005-083 R 2005 0214 13A
 On 43 S of Hendricksville going upslope
 T8N R3W Sec 14 SE NE NW



Ss shal occurs everywhere above this Ls
 that wraps around the hill. Can probably
 use the top of Ls as Paoli/Bethel
 contact.

4331761.5
 524902.4
 680.8

side TAT 2005 - 084 R 2005 02141313
 On 43 S of Hendricksville @ S end of
 Whitehall Quadrangle
 T8N R3W S14 N1W SW SW

4331380.9
 524544.7
 717.9

N

S

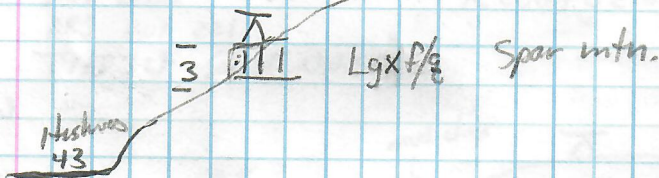


Lower Sample ?

side TAT 2005 - 085 R 2005 0214A
 On 43 S of junction w/ 48 by ~ $\frac{1}{2}$ mi.
 T9N R3W Sec 36 SE SE SE

4335422.6
 527247.4
 686.6

other Ls flood up
 slope some
 is Lg20



Lgxf/2 Spar mtn.

Wed 15 Feb 06

Location SW part of Whitehall Oval

Purpose same

People same

Weather mid to upper 40s, hazy

Site: TAT 2005 - 086

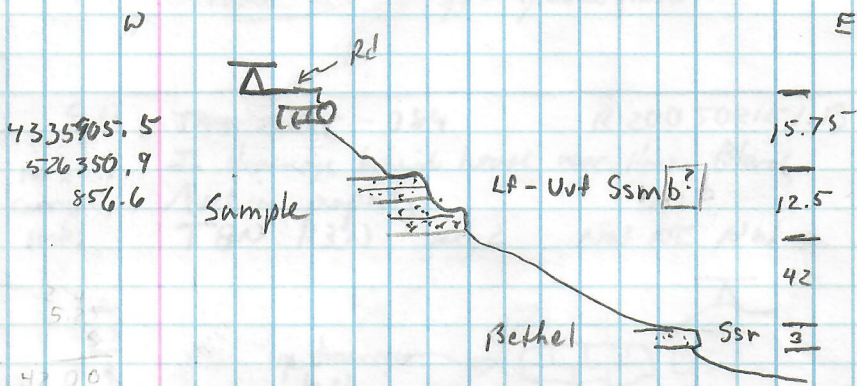
R2005021510A

3896 State Ferry Rd

T9N R3W S36 NE NE SW

Whitehall

elev = 850



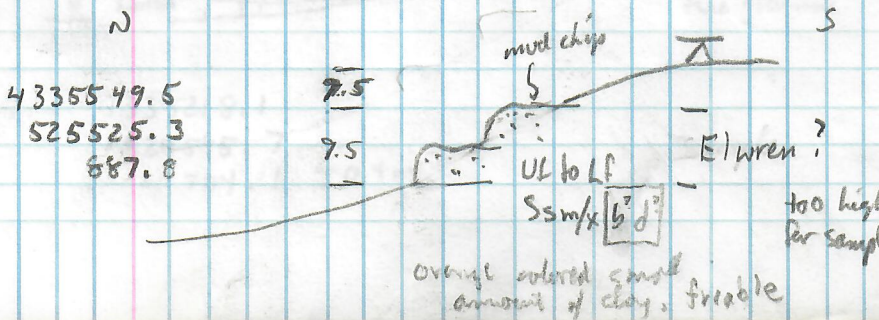
Site

TAT 2005 - 087

R2005021510B

RR1 Box 221

T9N 3W Sec 35 NW SE SE

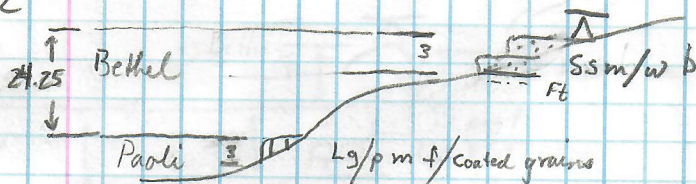


Site TAT 2005 - 088 R 2005021511A
 2912 RR 1
 T9N 3W Sec 35 NW SW SF

4335621.0
 524857.9
 743.2

S

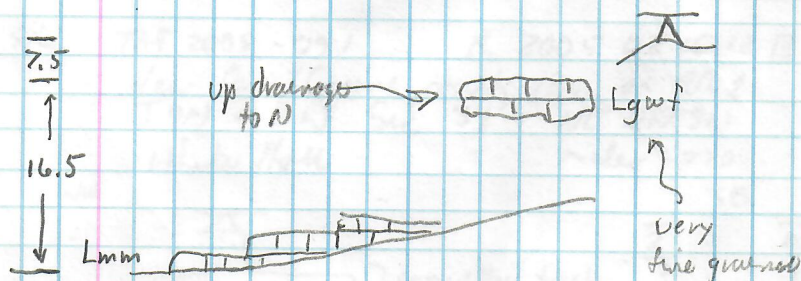
N



Site TAT 2005 - 089 R 2005021511B
 In drainage behind house near Kenny Blare
 Auction property
 T8N R3W Sec 2 NW NE NW

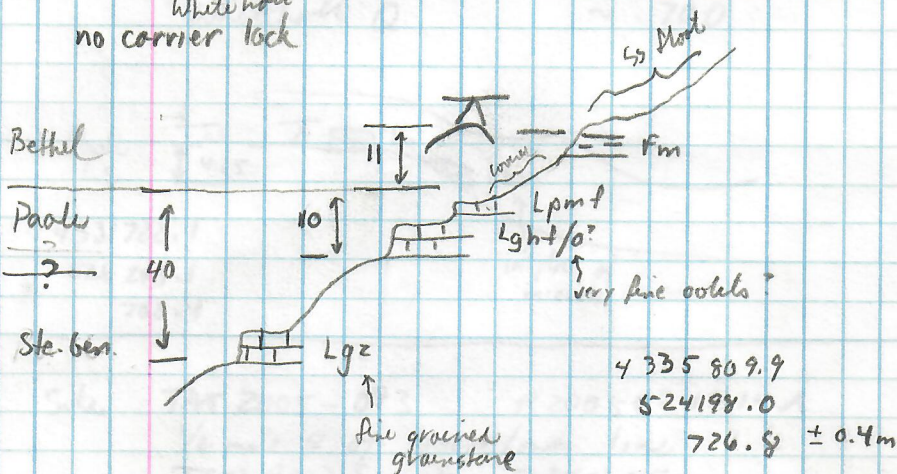
no
 carrier
 rock

ste
 Gen.

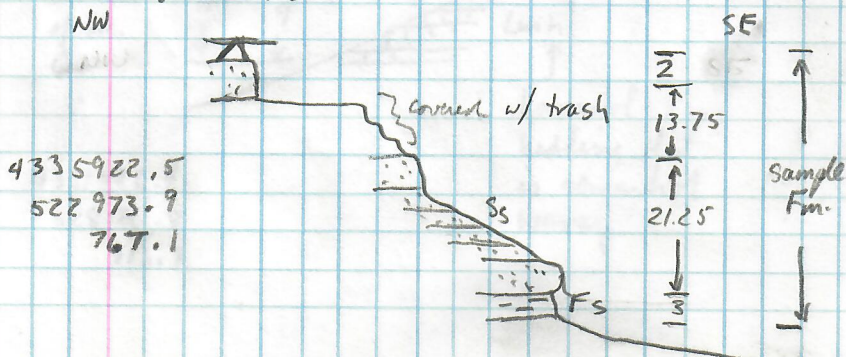


4335218.1
 524595.7
 704.1 ± 0.4 m

site TAF 2005-090 R 2005 021512A
 I don't have a map on RR 1
 T9 N R3 W Sec 34 NE NE SE
 White Hall
 no carrier lock



Site TAF 2005-091 R 2005 021512B
 Near Owen/Greene county line on RR 1
 T9N R3W Sec 34 NE NW SW
 White Hall
 meter = 770



Site

TAT 2005-092

R2005021513A

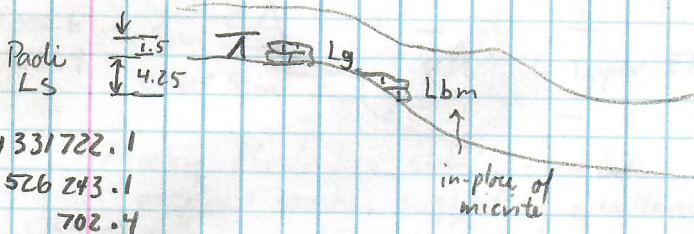
@ crest on rd on 780N

T8N R3W Sec 13

NW SE NW

Whitehall Q

~ 700



Site

TAT 2005-093

R2005021514A

1/2 mile @ of green/owen line

T8N R2W Sec 18

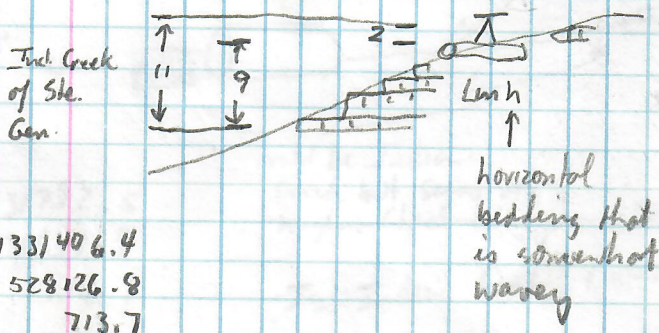
SW SW NE

Whitehall Quad

elev = 715

W

E



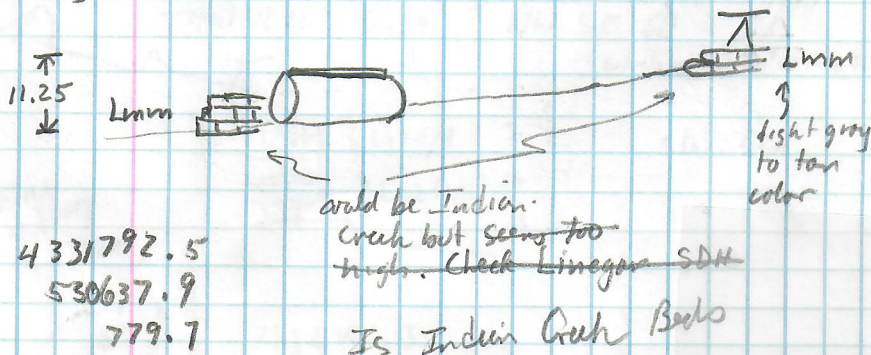
Site TAT 2005-094 R 20050215148
 top of hill
 T8N R2W Sec 17 NW SE NW
 white hall ~ elev = 865

4331518.4
 529351.6
 873.4



Nearby flood has straight-crested
 ripple + coarser suggesting weathered
 out mud chips.

Site TAT 2005-095 R 2005021514C
 Corner of Bubby Roy Ln
 T8N R2W Sec 16 SE NW NW
 S



4331792.5
 530637.9
 779.7

Note TAT 2005-098 is to N and is
 Bethel. Probably channel cutting into
 Ste. Gen. Some @ 099

Fri 17 Feb 2006

Location SE Whelshall + SW Blom Quoad
 Purple sand
 Purple sand
 Weather cold + sunny upper 20° to lower 30's

5000: TAT 2005-096 R 200502171013
Drainage on West Gifford Rd
T8N 2W Sec 11 NENW NW
Bloomington Quad elev = 906

4333640 .5

533912.4

902.6

N

5

Ste. Gen.

Lgzf

9.25

11

Sub TAT 2005-097 R2005-021710C

Funkhouser sinkhole quarry

T&N R 2W Sec 9

NW SE SE

wholehold $\sim$ elev = 850

ste. Gen.

4332406.3

531740.0

868, 5

site

TAT 2005 - 098 R2005021711A
3257 Garrison Chapel Rd
T8N R2W Sec 16 NE NW NW
Whitehall Quad ~ elev 795

五

4331871.4

530856.0

819.1

Bethel

$$\begin{array}{r} 4 \\ 2 \end{array}$$

W

Some ss Art above

- SSM 6?

Garrison Chapel Rd

site

TAF 2005-099

R2005021712A

Drainage to west n of spicer rd

T8N 'R2W Sec 9

SE SW NW

White hall

$$\sim \text{elev} =$$

四

SSW/x

Ssh

Lgzo/f

L92f

L920

37.5

40

Bethel

ste Gen.?

looks like
Lm, but w
w/ Lg

4 333012.6

530818.7

877.8

Site

TAT 2005 - 0100

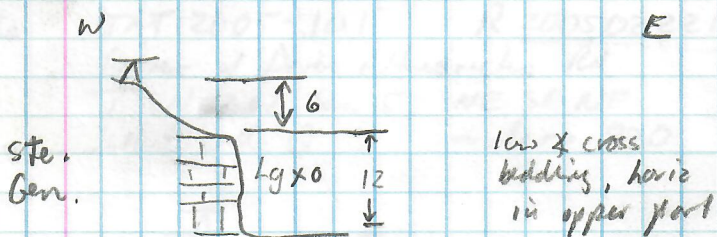
R 2005021713A

Handley excavating on gifford rd

T 8 N R 2 W Sec 9 NE NE NW

Whitehall Quad

~ elev.



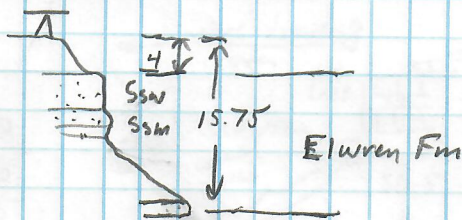
4333527.9
531467.0
842.8

Wed 22 Feb 2006

Location SE part of Whitehall Wood
Purpose same
People same
Weather overcast, upper 30's

Site TAT 2005-101 R 2005022210A
Corner of Davis + Hendricks Rd
1 SW 2 W Sec 5 NE SE NE
White hall Q ~ elev = 890

4334489.4
529949.5
884.0



See next page

side

TAT 2005-102

R 2005022212A

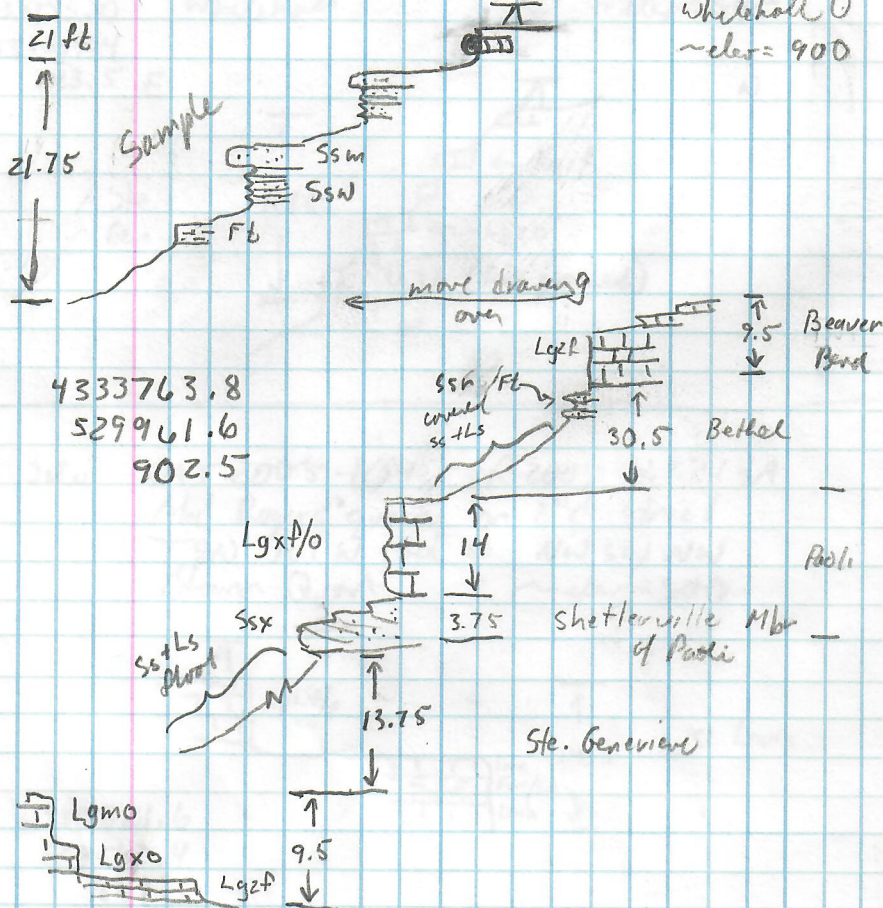
Deep drainage @ road curve on Riv Rd

T 8N R 2W Sec 5

SE SW SE

Whitchell 0

~ elev = 900



Site

TAT 2005-103

R200502221213

Above core @ end of cave wood rd

T8N R2W Sec 4

NE SW SE

Whitehall

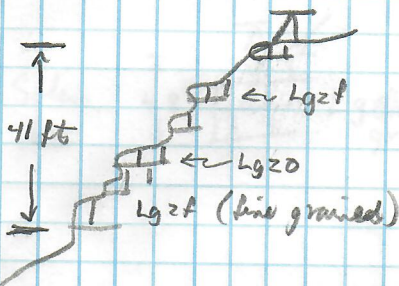
~elev = 845

4333943.0

531534.4

823.5 E

Ste
Gen.



Site

TAT 2005-104

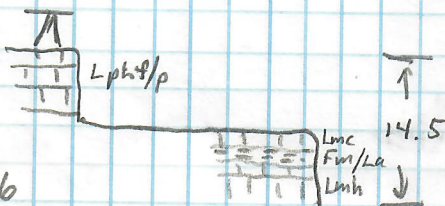
R2005022214A

Abd Rogers quarry on 2nd street

T8N R1W Sec 5 NW SW NW

Bloomer Quarry

~elev = 800



St. Louis

4334821.6

538582.4

807.5

Site

TAT 2005-105

R200502214B

N Patterson St.

T&N R1W Sec 5 SW NE NW

Bloom Quad

~ elev. 790

E

W

Salem
ls.

↑
4.8
↓



Lg x/h! (coated
grains + forams.)

4334816.6

538911.4

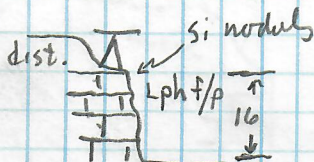
785.8

Then 23 Feb 06

Location SW corner of Bloom Quad
 Purpose same
 People same
 Weather clear + cool 30 to 40 s

Site TAT 2005-106 R2005022310A
 new super walmart
 T8N R2W Sec 12 SW SW SE

4332464.2 S
 536206.7
 860.8

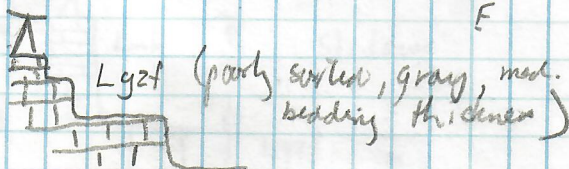


St. Louis Ls

Site TAT 2005-107 R2005022310B
 Stone Rd @ end e of abd quarries
 T8N 1W Sec 7 SE NE NW
 Bloom Quad - elev = 770

4333452.7
 537530.6 W
 762.6

Lower
 St. Louis 14
 Ls



F

Side

TAT 2005-108

R 20050223 11A

Abd Quarry behind Medical park S of Tapp Rd.

T 8 N R 1 W Sec 18 SW NE NW

Blown O

~ elev = 750

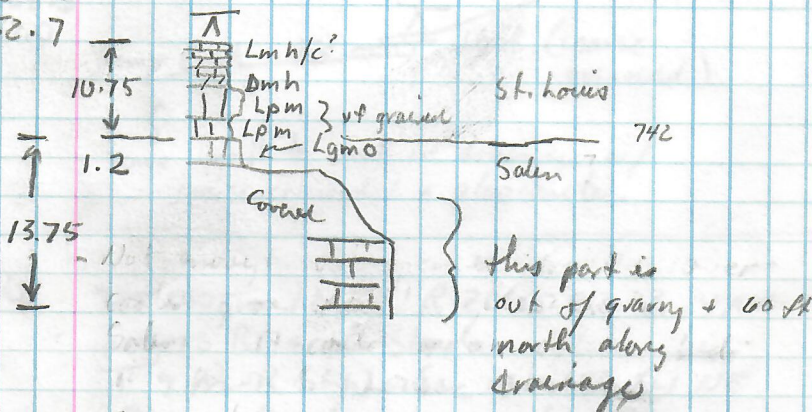
S

N

4331612.9

537335.3

752.7



Site

TAT 2005-109

R 20050223 12A

Side of Maple Hill, Quarry

T 8 N R 1 W Sec 18 NE SE SW

Blown O

~ elev 780

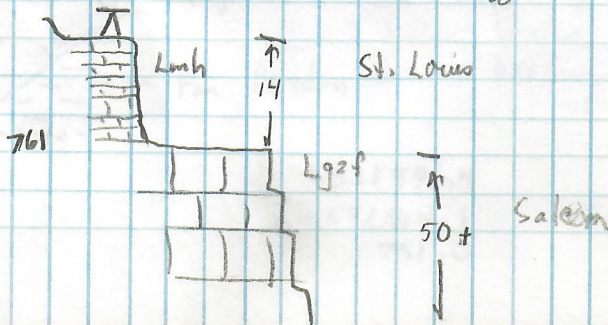
E

W

4330866.7

537746.3

775.4



side

TAT 2005 - 110

R2005 G22313A

Corner of Winslow + Henderson in drainage

T 8 N R 1 W Sec 16 NW NW NE

Bloomington Q

~ elev

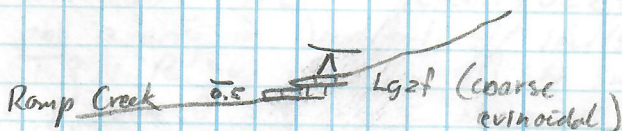
W

E

4331968.2

540928.3

707.0



side

TAT 2005 - 111

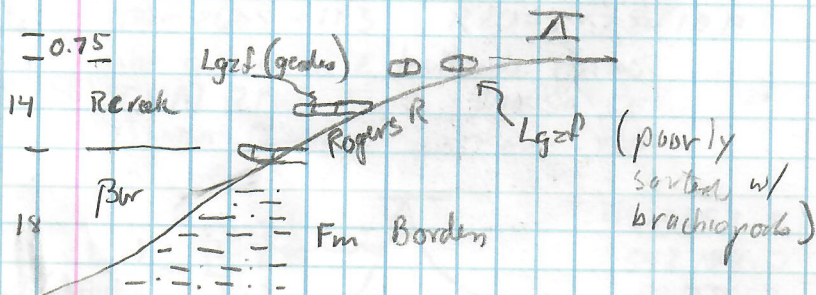
R2005 022314A

Rogers Rd + the Stands

T 9 N R 1 W Sec 10 SE SW NE

Bloom Overl.

~ elev 750



4331996.4

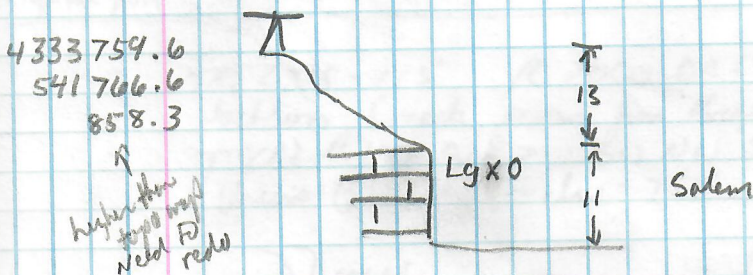
542814.1

751.0

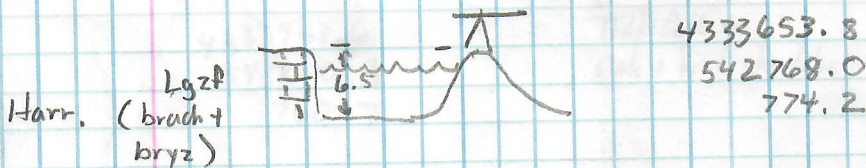
Fri 24 Mar 05

Location SE Bloom Quad
 Purpose same
 Property same
 Weather clear + cold 30° to 40°s

Site TAT 2005-112 R2005022410A
 abd quarry in Deer Park off Hillside
 T8N R1W Sec 3 SW SW SW
 Bloom Q — elev = 845



Site TAT 2005-113 R2005022410B
 abd quarry on e. hillside drive
 T8N R1W Sec 3 SE SW SE
 Bloom Q — elev = 760



side

TAT 2005-114

R 2005022411A

Drainage in Latimer woods

T8N R1W Sec 2

SW SE NW

4334531.5

Unionville Q

543750.0

E

W

781.4

RCreek I

grades

A

Lgzt

(crinoidal
w/ brachys)

Brian left
going over fence
+ left face plant.

Should be close to contact

TAT 2005-115

R 2005 022415A

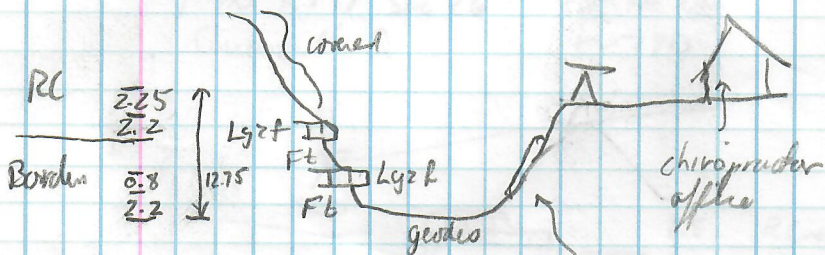
Jackson Creek across from Thayer

T8N R1W Sec 2

SW NW SW

Union Q

~ elev = 755

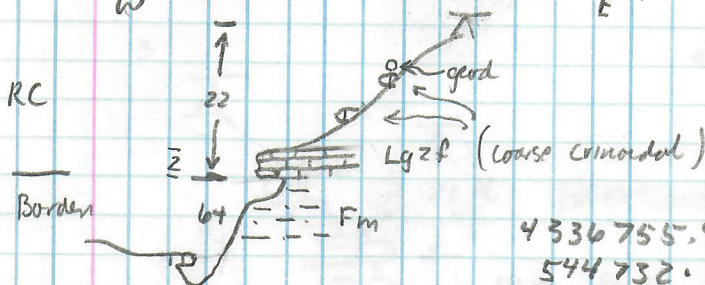


4333961.6

543350.3

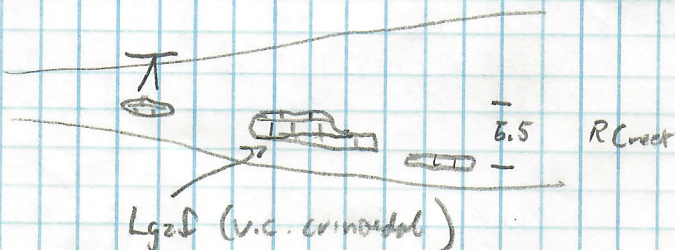
760.7

Site TAT 2005-116 R20050224 12B
 Russell Rd drainage near U. School
 T9N R1W Sec 26 SE SESE
 Unionville
 W E



4336755.9
 544732.9
 820.3

Site TAT 2005-117 R20050224 13A
 3855 Commodore Trail
 T9N R1W Sec 26 SE SE NE
 Unionville Q
 ~790



4337753.1
 544650.6
 797.5

Site

VAT 2005-118

R2005022414A

Shooting range drainage

T9N R1W Sec 26

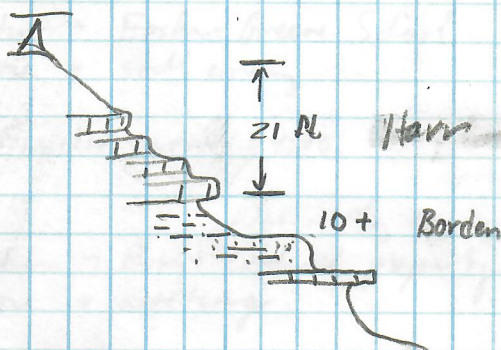
SWSE SW

Unionville Quad

~ elev = 800

S

N



4336790.6

543625.1

785.1