

INDIANA DEPARTMENT OF
NATURAL RESOURCES
GEOLOGICAL SURVEY

611 NORTH WALNUT GROVE
BLOOMINGTON, IN 47405

6066-100

Mon 14 Jan 08

Location → Northern Lawrence County

Purpose → GPSing core sites

People → Todd & Brian

Weather → overcast, cold, snow flurries

Site: SDH 409 Moco R2007011400A

4313536.8 SW SE NW Sec 8 6N 1W
538957.1 ~ elev 720 → $\begin{array}{r} 699.4 \\ 22.8 \\ \hline 722.2 \end{array}$ ← note on last page of log
699.4

Site: SDH 408 Guthrie R2007011410A

4314270.0 NE NW NW S6 6N 1W $\begin{array}{r} 689.6 \\ 22.8 \\ \hline 712.4 \end{array}$
540472.7 ~ ?
689.6

Site: SDH 410 Siobilt R2007011410B

4313057.4 SW SW S11 6N 2W $\begin{array}{r} 696.3 \\ 22.8 \\ \hline 719.1 \end{array}$
534943.2 ~ ?
696.3

Site: SDH 416 Chuch R2007011411A

4311209.9 SW SW SE S15 6N 2W
533188.8 ~ 809 ft below a little from BM @ 809
782.2
809.0

Site: SDH 415 Maul Hill R2007011412A

4304627.0 NE NW NE S11 SW 2W → $\begin{array}{r} 792.4 \\ 22.8 \\ \hline 815.2 \end{array}$
534937.7 ~ 815 ft
792.4

Site: SDH 414 Andrew F-Feldern R2007011412B

4304372.5 SW NW NW S7 5N 1W
537222.4 ~ 765 ft
729.9
22.8
752.7

Site : SDN 413 R2007011413A
 4307927.3 SW SW SW S26 GN 1W 656.1
 543705.9 ~ 680 ft $\frac{22.8}{678.9}$
 656.1

Site : SDN 412 R2007011413B
 4307917.4 NENW NW S30 GN 1E 734.6
 547172.9 ~ 762 ft $\frac{22.8}{757.4}$
 734.6

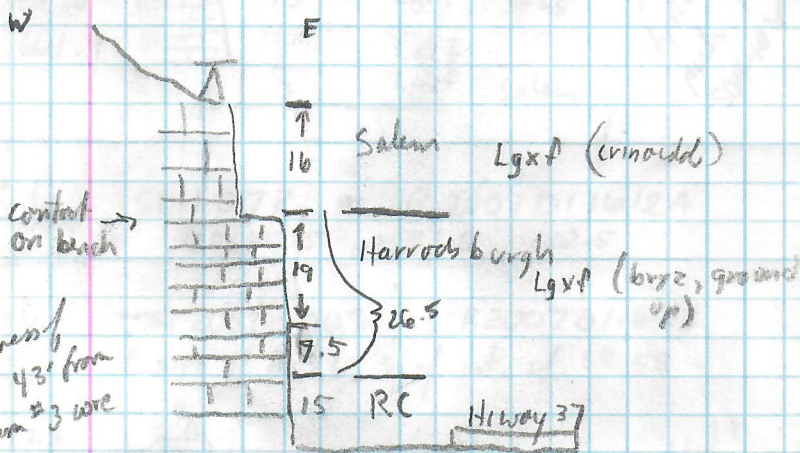
Site : SDN 411 R2007011414A
 4309480.5 NW NE SW S29 GN 1E
 548938.6 ~ 755 ft
 711.6
 $\frac{22.8}{734.4}$

Note : 22.8 added because antenna was 10 ft
 but GPS thought it was 10m in data
 file

Wed 16 Jan 08

Location Northern oolitic quad
 Purpose GPS on core site
 People Todd + Brian
 Vehicle Sunny + cool 30°S

Site TAT 2007-001 R 2007 01161PA
 Highway 37 outcrop, 2nd south of Harrodsburg
 exit on west side of highway
 NE SE SE S32 7N 1W
 Oolitic ~605 Marine



Thickness of
 RC is 43' from
 program #3 wire

4316573.0
 540034.4
 608.6

Not Recheck exposure for
 msec. 3/09

Site

TAT 2007-002

R 2007 011611A

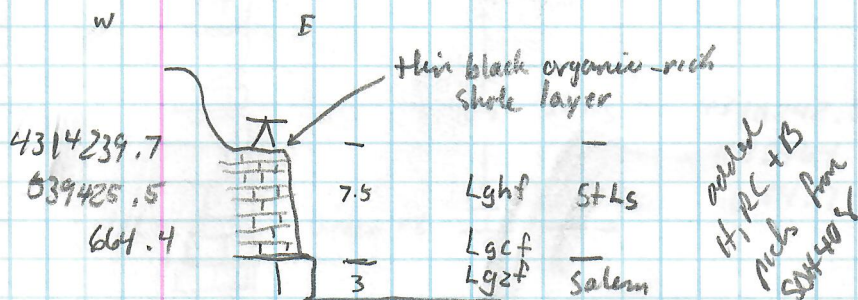
West side of Hwy 37 north of
cross road to Guthrie (Judah-Logan Rd)

NENE NW S 8 60 1 W

Oolitic Quad

~ 680

Law City



Site

SDH 372

R 2007 011612A

4305317.5 53843.6 602.5

Site

TAT 2007-003

R 2007 011612B

E side of HW 37, S of int. w/ SR 58



NENE SW S 32 60 1 W

oolitic quad

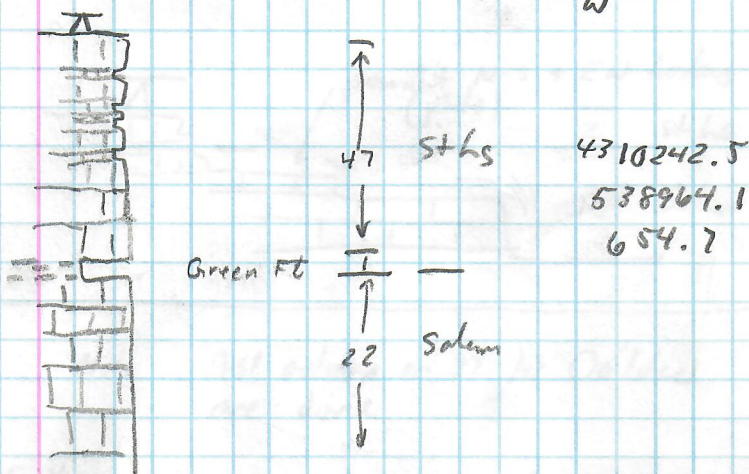
~ 600

Law City

Site TAT 2007-004 R2007011612C
 Gulletts Creek Section on E side
 SE SW NW S20 GN 1W
 Oolitic Quad ~ 670 Law City

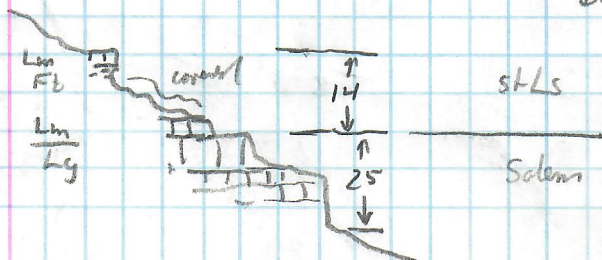
E

W

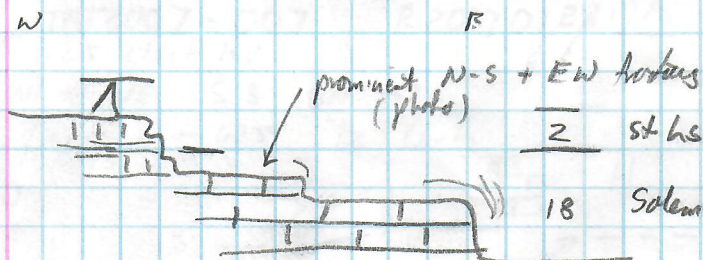


Site TAT 2007-005 R2007011614A
 S side of Washboard Rd E of Hwy 37
 NE NW SE S18 GN 1W Law City
 Oolitic ~ 625-630 43111669.8
 538091.9
 628.3

S



Site TAT 2007 - 006 R2007 011615A
Waterfall^{NW} of Bennett Lane @ head in Ln
SW NE SW S31 71N 1W
Oolitic ~ 620 Manual County



Note: All outcrops on 37 to Oolitic
are done

4316385.4

537383.1

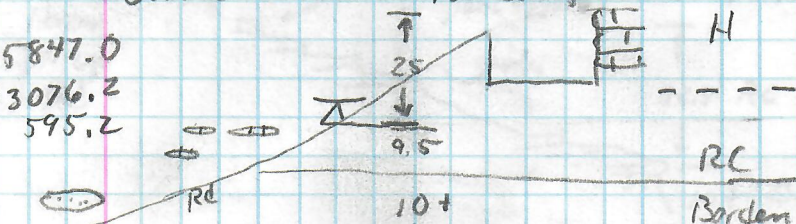
614.5

Monday 28 Jan 08

Location → Northern Lawrence
 Purpose → GPSing outcrops
 People → Todd + Brian
 Weather → sunny to overcast 40's

Site: ~~TAT~~2007-007 R2007012810A
 125 West Rd
 NNW NE NE S3 6N 1W
 Outcrop ~625 Low Cont.

4315847.0
 543076.2
 595.2



Couldnt get into quarry. Looks like Hardsburg from a distance

S.C. ~~TAT~~2007-008 R2007012811A

SESE SW S35 7N 1W

4316234.0 Monroe City Bartlettville ~700
 544092.8 S

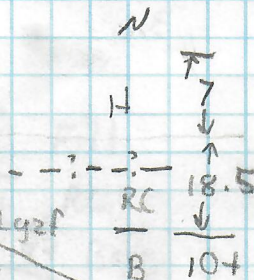
677.2

Lgzf

Abd Harr
 Quarry

To

crinoid w/ glauc



Site

TAT 2007-009

R 2007 0128 12A

510 Hardin Ridge Rd in drainage

beside rd

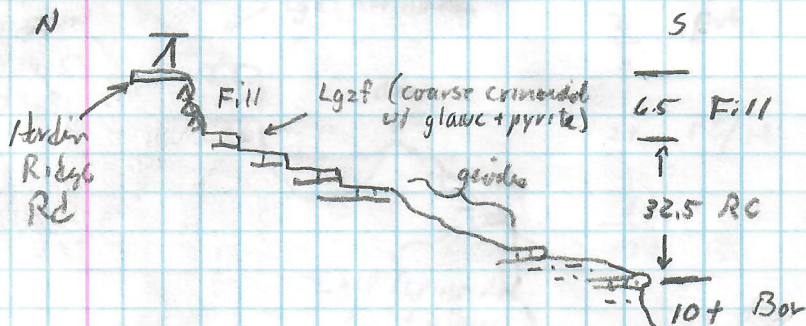
SE SE NE SZ GN IW

Lawr. Cty Bertlesville Gd ~ 685

4315386.3

544881.8

672.9



Site

TAT 2007-010

R 2007 0128 12B

4725 Hardin Ridge Rd.

SW NE SE S36 7N IW

Lawr. Cty Bertlesville

4316721.3

546433.5

733.0

W

E



Site

TAF 2007-011 R2007012813A

Add quarry east of Coryville

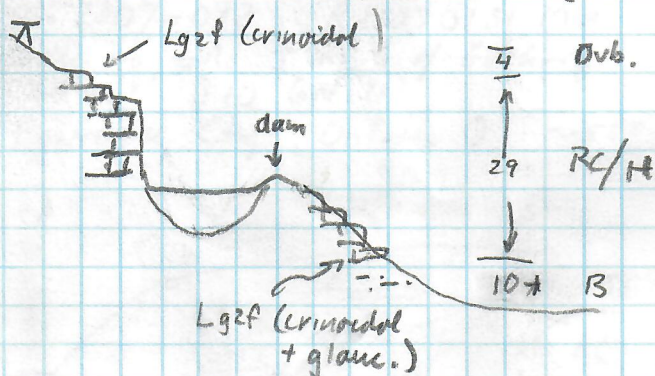
SW SE NW S12 60° 1 W

Lawrence, Bartlettville Quad. ~650

W

E

431 3765.4
545534.5
673.8



Thur 31 Jan 08

Location → N Lawrence, Ct

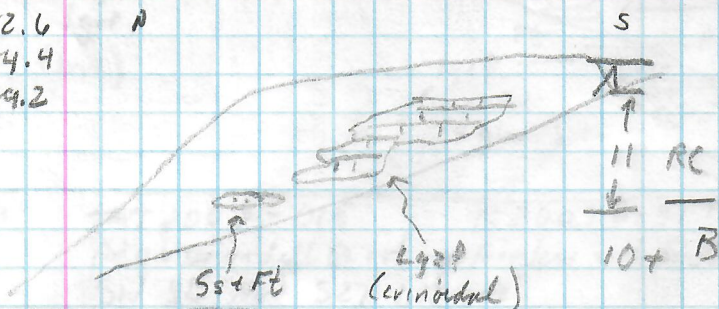
Purpose → GPS in outcrops

People → Todd + Brian

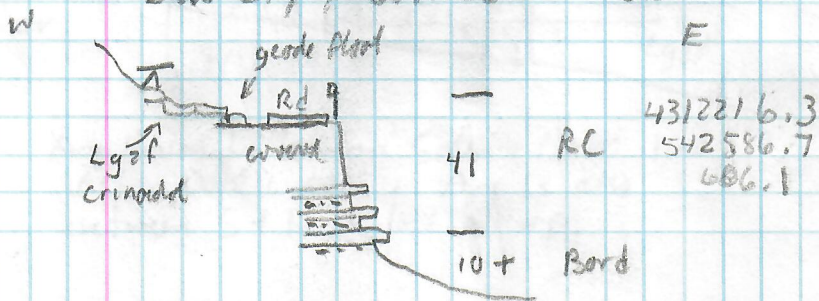
Weather → overcast + cold low 30s

Site TAT 2007-012 R20070131 10A
 Northern Hayes Rd $\frac{1}{2}$ mi S of Guthrie
 SE SE NW S10 GN IW
 Lawrence City, Oolitic @ ~550?

4313452.6
 542454.4
 589.2

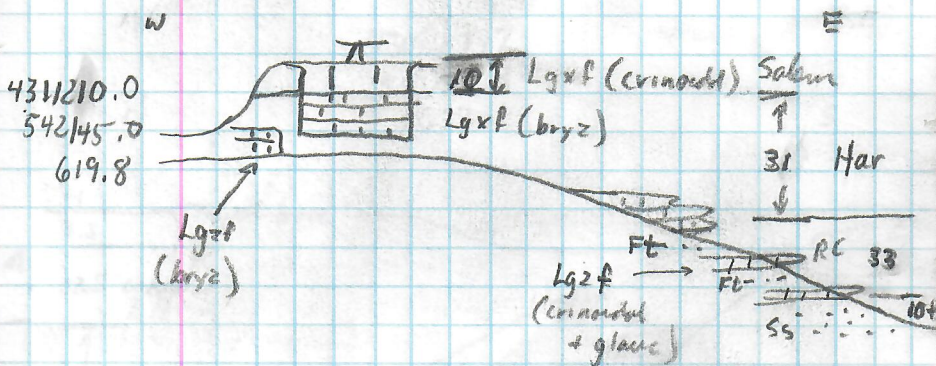


Site TAT 2007-013 R20070131 11A
 Hayes Rd + Francis Ave
 NE SE NW S15 GN IW
 Law City, Oolitic ~600?

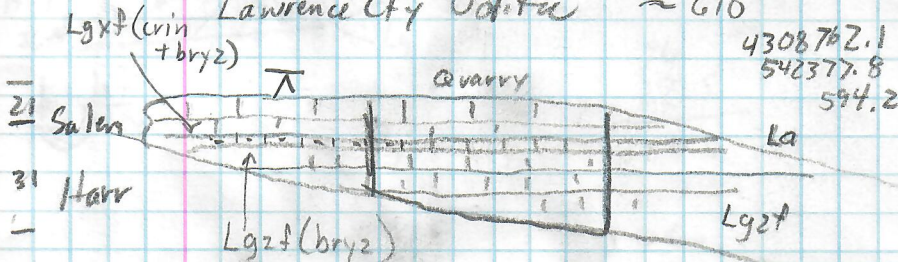


4312216.3
 542586.7
 686.1

Site : TAT 2007-014 R2007013111B
 Judah-hogan Rd $\frac{1}{4}$ mi W of Salt Creek
 SE SW SW S15 GN 1W
 Law Cty Oolitic ~ 630'



Site TAT 2007-015 R2007013112A
 At quarry on hill @ int. of Pecklers + McFadden
 SW SE NW S27 GN 1W
 Lawrence Cty Oolitic ~ 610



Argillaceous Ls between Salem + Harr like
 Victor Oolitic core. Arg Ls also
 between S + H @ last outcrop.

Site = TAT 2007 - 016 R2007013113A
 1/4 mi north of Redmore on Old 37 into Bullets Creek
 SW NE NW S28 60N 1W
 Low City Oolitic ~700

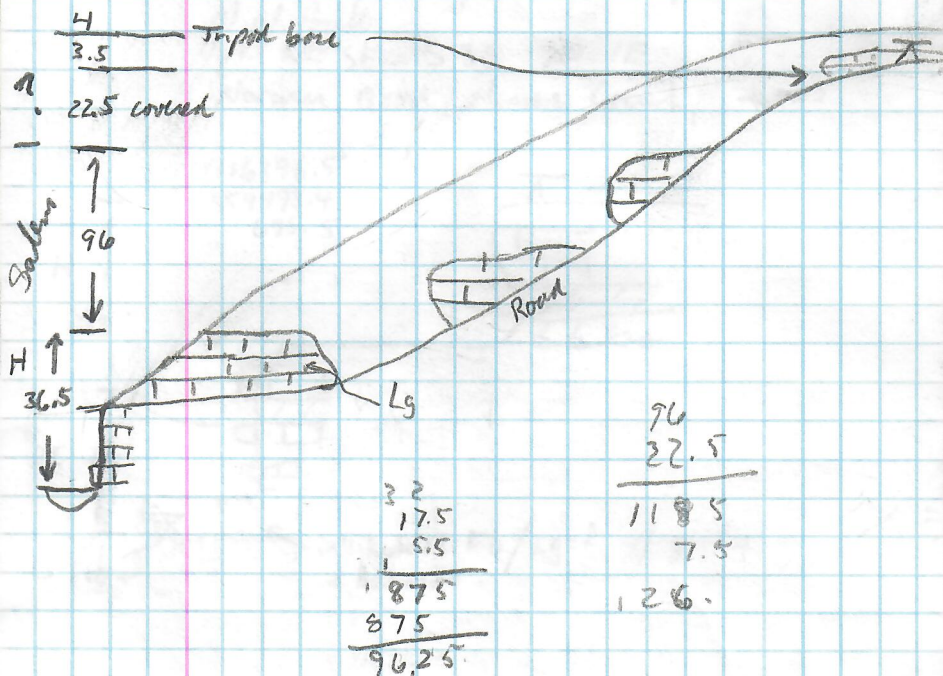
4309123.7

540755.8

677.1

N

S



Munday 18 Feb 07

Location → Highway 446 on W edge of Norman +
Eastern edge of Bartlettville Quad

Purpose → Giffing outcrops

People → Brian + Todd

Weather → variable 30°S Sunny to whiteout

Site : ~~TAT~~ 2007-017

R2007021810 A

Harrodsburg + Rump Creek outcrop on 446

N of Forks

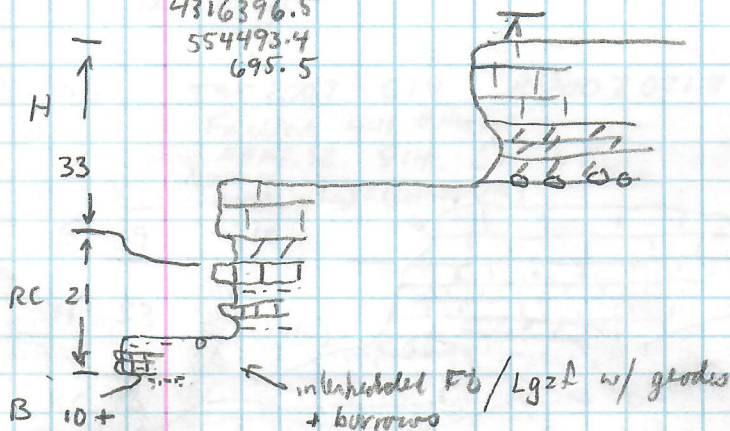
SE NE SE S35 7N IE

Norman Quad Monroe County, ~700

4316396.5

554493.4

695.5



Site

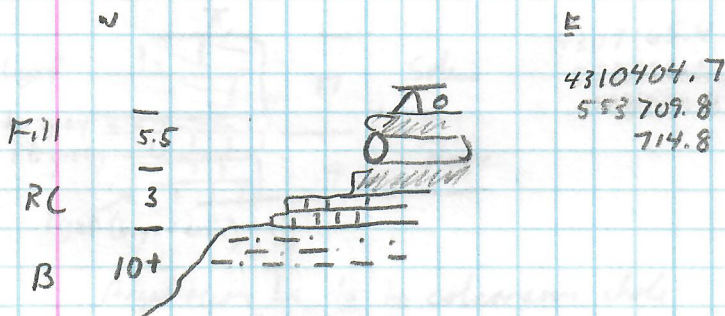
TAT 2007 - 018

R2007021811A

Paved road of private drive N of 550 N Rd.

SW SE NW S 23 6N 1E

Bartlettville Quad Lawrence County ~720



Site

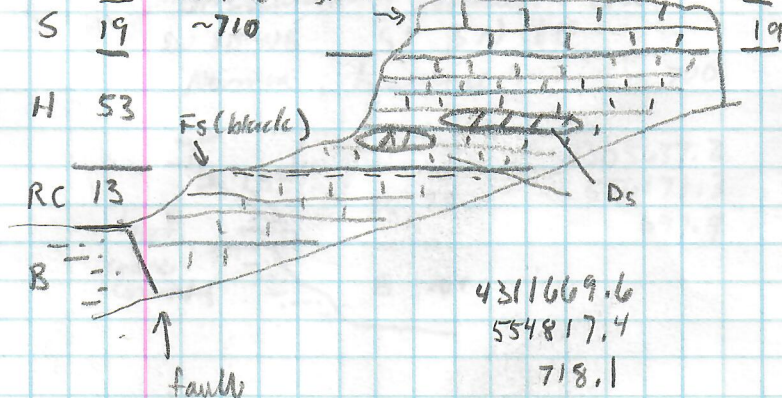
TAT 2007 - 019

R2007021812A

Faulted 444 outcrop

NENE SE 514. 6N 1E

Norman LgXP (concreted)



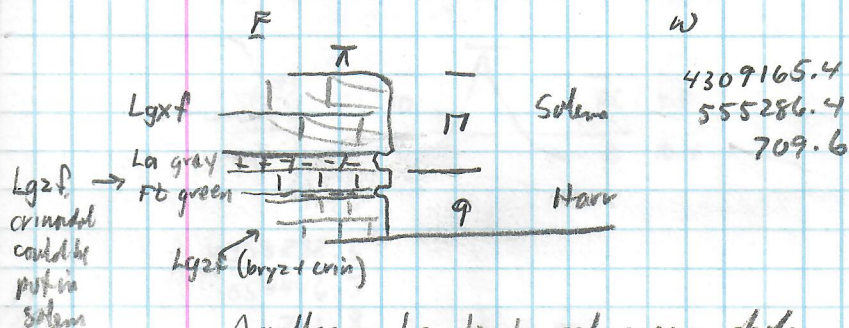
Site

TAT 2007-020

R2008021813A

Outcrop S of intersection of 446 & 58
SW NE NW S25 6W 1E

Norman Q, Lawrence City ~ 720



Argillaceous Ls to ls calcareous shale
put in base of Salem. See SDH 411 &
SDH 412 for equivalent units

Site

TAT 2007-021

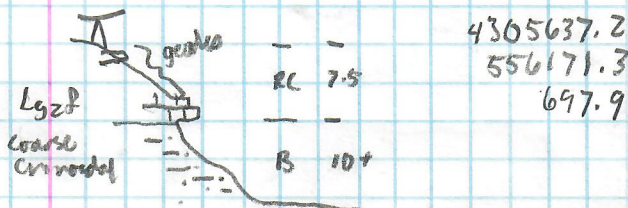
R2008021813B

On Locust N of Leatherwood Creek

SW SE NE S1 5N 1E

Norman, Lawrence

~ 700



Site

TAF 2007-022

R2008021814A

dirt road S out of Heltonville

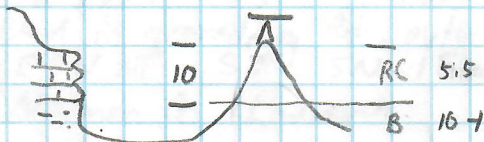
NW SE SE

S26 GN 1 E

Norman

Lawrence

~ 705-710



4308232.5

554446.7

721.8

Tues 19 Feb 08

Location → NE Lawrence County

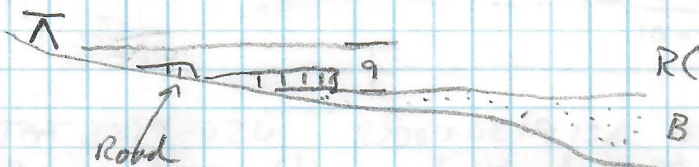
Purpose → GPSing outcrops

People → Sam

Weather → cold³ + clear

Site: TAT 2007-023 R200701910A
Bend in groundhog Rd, outcrop in field
SE SW NE S2 5N 1E
Norman Q Laurent ~ 710

4305513.9
554352.8
706.6



Site TAT 2007-024 R2007021911A
Intersection in Hwy 50 + stove Rd.
SW SE SW S11 5N 1E
Bartlettville Lawrence Cty ~ 640-50



Site

TAT 2007 - 025

R2007 02 19 12A

Drainage crossing Erie Church Rd

SE SW NW S11 SW 1E

Bartlettville

Lawrence Cty

~665

N

4303922.2

553545.5

669.2

4 Fill

23 RC

10+ B

Site

TAT 2007 - 026

R2007 02 19 13A

Drainage crossing Shawswick Rd - 1 mi S

SW SW SE S4 SW 1E

Bartlettville

Lawrence

~615

W

E

4304836.9

550894.7

612.5

RC

12

B

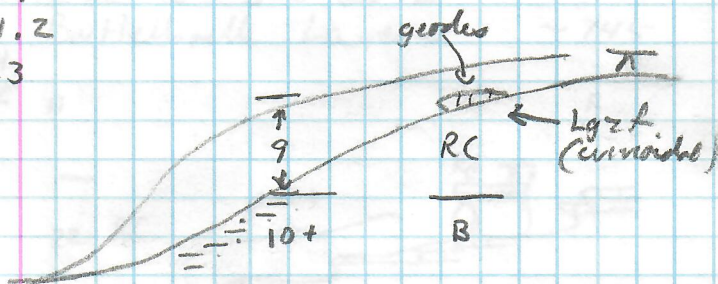
10+

Site TAT 2007-027 R2007 0219 13B
 SR 58 into Heltonville @ bend going into
 drainage
 SE NE NW S3 5N 1W
 Bartlettville Lawrence Cty ~ 700

N

S

4306101.1
 552451.2
 695.3



Site TAT 2007-028 R2007 0219 14A
 drainage crossing 350 E Rd
 SW NW SE S33 6N 1E
 Bartlettville Law. Cty ~ 665

W

E



Location → NE Lawrence in center to n side of
Bartlettville

People → Todd + Brian

Purpose → GPS in outcrop

Weather → overcast + cool

Site TAT 2007-029

R2007022510A

2799 Ramsey Ridge Rd

SE SW NW S22 GN IE

Bartlettville Lawrence

~745

4310324.4

551882.2

742.8

W

E

22 RC

geodes

Rd

B

10+

ssh

Lgzt (crinoidol + dirty)

State

TAT 2007-030

R2007022510B

1845 Ramsey Ridge Rd

NNW NE NW S21 GN IE

Bartlettville Lawrence

~740

RC 44

geodes

Rd

B

10+

ssh

Lgzt

4311129.2

550514.3

740.9

Site

TAT 2007-031

R 2007 0225 11A

3645 Bartlettville Rd

SE SE NE S16 GN IE

Bartlettville Lawrence ~ 625

4310328.9

548345.1

622.0

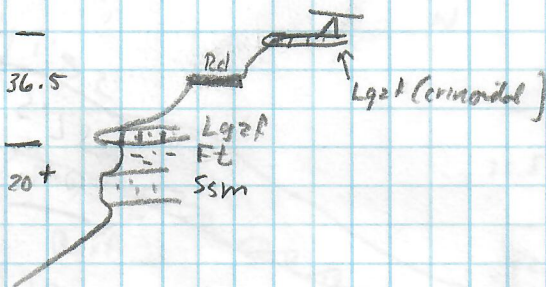
RC

36.5

RC thickness
from SDH 411

B

20+



Site

TAT 2007-032

R 2007 0225 12A

Dropping into drainage on Ozzie Farm Rd

SE NE NW S25 GN IW

Bartlettville Lawrence

E

W

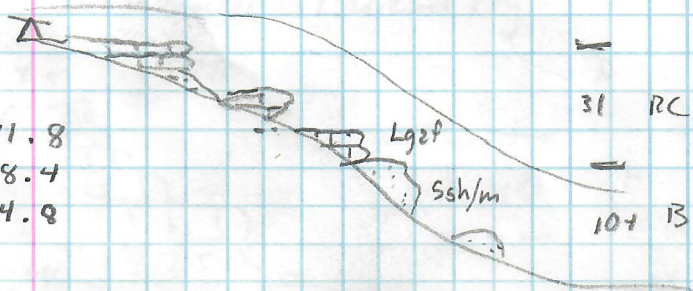
4309191.8

545918.4

624.8

31 RC

10+ B



Site : TAT 2007-033

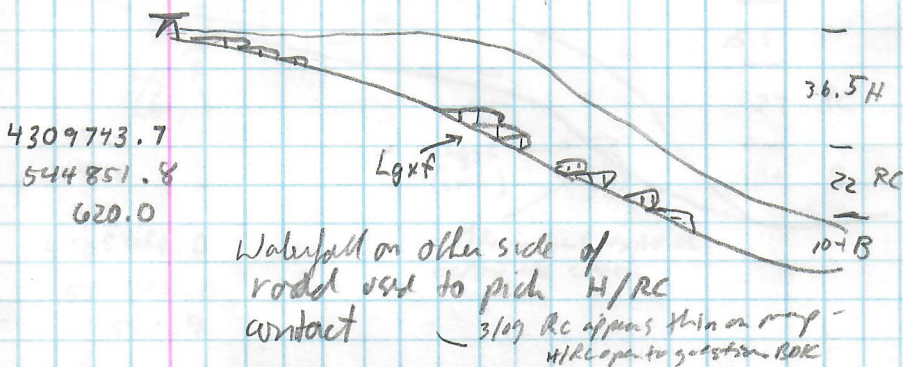
R2006022513A

Donica Chapel Rd connecting w/ Judah
Logan Rd

SW SE SE S23 GN 1W
Bartlettville Lawrence

E

W



Site : TAT 2007-034

R20060225 13B

Crossing drainage on Judah Logan Rd

SE SW NE S24 GN 1W

Bartlettville Lawrence City

4308812.2

544667.7 S

636.6

AO

N

Profile from
wet drainage
beside the road



site

TAT2007-035

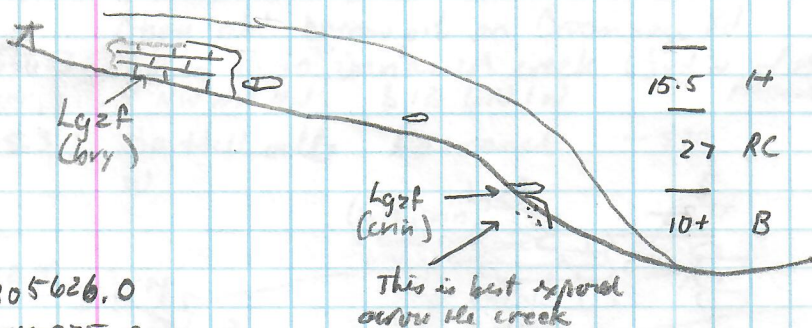
R2007022514A

50 East Rd on S side of Pleasant Run

SW SW NE SE 5N/1W

Bartholomew Lawrence

~600



4305626.0

545975.6

592.9

Wed 27 Feb 08

Purpose → GPSing outcrops

People → Brian + Todd

Location → SW corner of Bartlettville Quad

Weather → cold, partly sunny

Site : JAT 2007-036

R2007022711A

Above abd borrow pit on Brownsage Rd

going into unnamed creek (1/3rd W of Mt. Pleasant)

NW NW NW S 12 6N 1W

Bartlettville Lawrence ~ 590
W

4304656.3

545315.1

585.3

H 42.5

RC 16

B 10+ w/ Ssh

(bryz, crin
+ small scale
troughs)

Lgxf

F

Quarry

Lgxf

Ssh

Site

JAT 2007-037

R2007022712A

N side of Peerless S of Pleasant Run Creek

SW NE NW S 2 S N 1W

Bartlettville RC Lawrence Uty ~ 585
S N

4306097.5

544000.1

569.0

Soil 5

RC 23

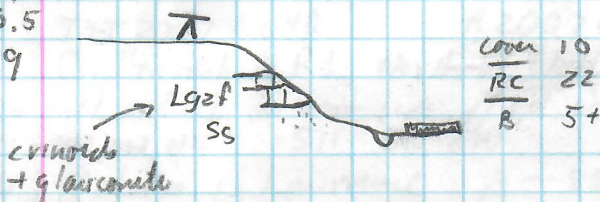
B 10+

Lgxf

Ssm

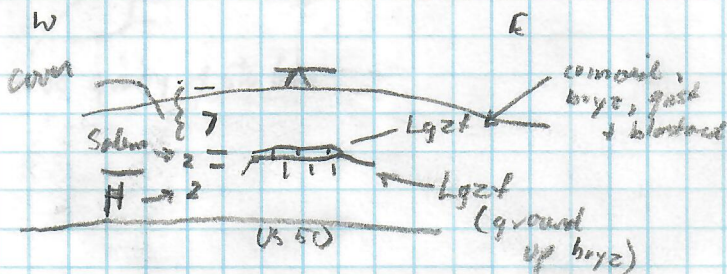
Site TAT 2007-038 R2007022713A
 cut bank above leatherwood creek
 SW SW NE S18 SN IE
 Bedford East Lawrence County ~570-580

4302405.4
 547583.5
 561.9



Site TAT 2007-039 R2007022713B
 on US 50 across from Leatherwood Creek
 Estates entrance
 SE SE SE S8 SN IE
 Bartlesville Lawrence ~660

4303146.0
 550008.5
 667.8



Thurs 28 Feb 08

Location → NW Oolitic Quad
Purpose → GPSing outcrops
People → Todd + Brian
Weather → clear, sunny + cool

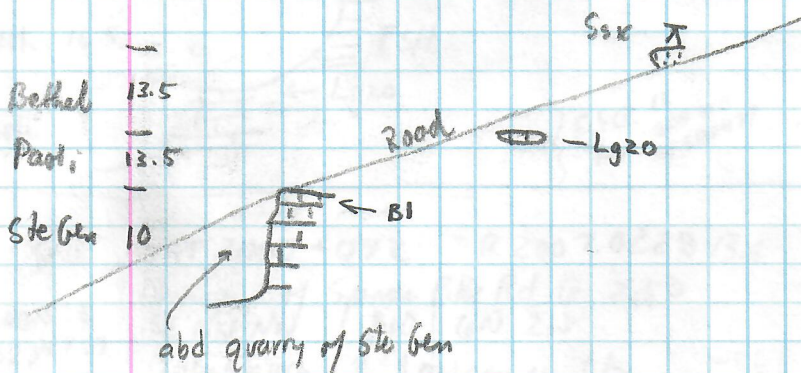
Site TAT 2007 - 040 R2007022810A

On Harrodsburg Rd, North of Wells Rd

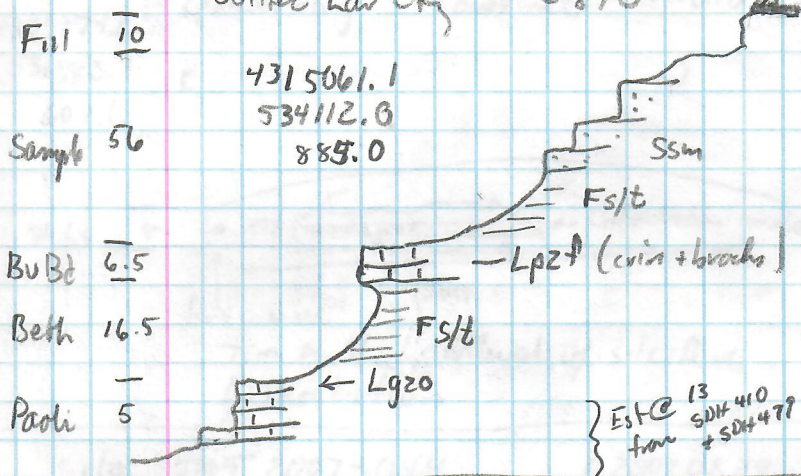
4314254.4 w/ outcrop on west side of rd in culvert

534619.9 NW NW NE S11 6N 2W

819.6 Oolitic, Lawrence ~ 830



Site TAT 2007-041 R2007022811A
 S end of Cannel Run Rd in drainage to East
 NW NE SW S2 6N 2W
 Oolitic Low City ~890



Site TAT 2007-042 R2007022813A
 Drainage E of Spinner Pike Rd @ 2850
 SE NW NW S10 6N 2W
 Owensburg Lawrence City ~860
 N S



Site : JAT 2007-043

R 2007022813B

E of intersection of IN 58 + IN 54

SW NE NE S28 6N 2W

Owensburg Lawrence ~610

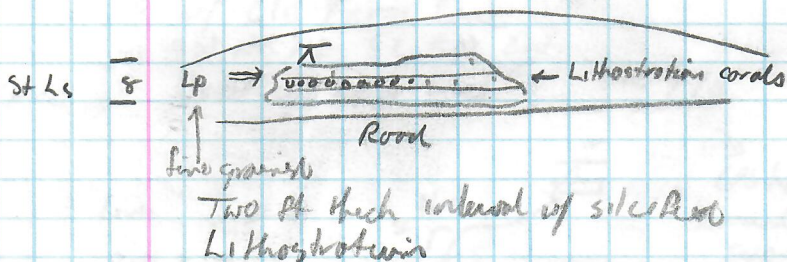
4309174.0

531983.1

607.6

E

W



Site JAT 2007-044

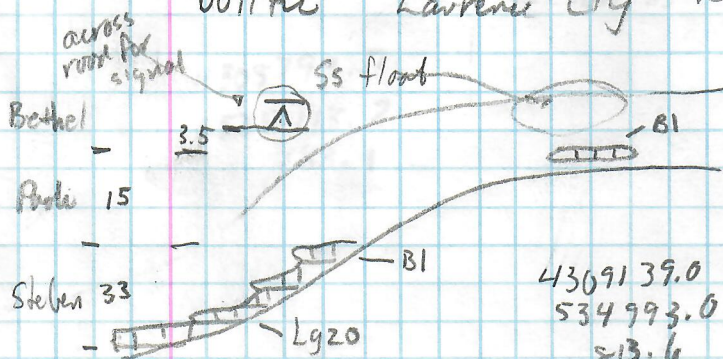
R 20070228 14A

Red Hill + West on IN 58

SW NE NE S26 6N 2W

Oolitic Lawrence City ~820-830

"I don't know"



4309139.0

534993.0

813.6

Leap Day Friday 29 Feb 08

Location → SW corner of Oolite Blvd

Purpose → GPSing outcrops

People → Todd + Brian

Weather → partly sunny to sunny

Site TAT 2007 - 045 R2007022912A

Sink hole of Pierce Ln @ intersection

w/ Old Farm Lane

SW NE NE S2 S1 2W

Oolite Lawrence

~ 775

Cover —
13.5

Beller —
7

Paoli —
12



GPS hole
around
820-825

{ Paoli thickness of 10'
extrapolated from
SDH-115

4305799.7

535118.2

783.1

Location → SE corner of Oolitic Quad
 Purpose → GPSing outcrops
 People → Todd + Brian
 Weather → sunny + 40s to 50s after 3 days of rain

Site TAT 2007-046 R 2007 0320 09A
 NW of intersection of 37 + 58 w/ large
 road cut

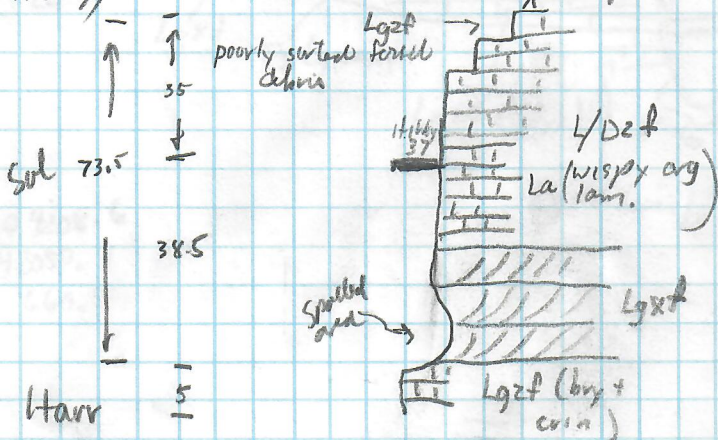
NW NE NE S16 5N 1W

Oolitic
(barely)

Lawrence

SW 1/4 ~ 630

chert float



38.5
 35.0
 73.5

4302945.7
 541668.8
 621.7

Site:

TAT 2007-047

R2002032011A

Colticut rd @ Wiley Youth Park

NE SE NE

S 10 5N 1W

Colticut

Lawrence

~ 670

denon ground

Lgzt

(poorly sorted forest floor)

S 95 ft

H 38.5

La

Lgxt

Fs (green)

Lgzt (brn)

gnd

Lgzt (brn)

4304208.6

543050.7

660.5

Site

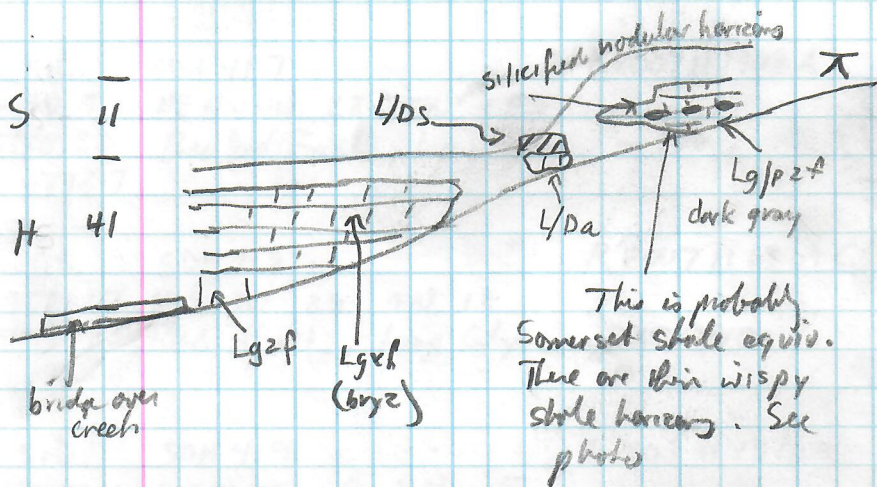
~~TAF~~ 2007-048

R20070320 12A

Road to East Oolitic into Salt creek

SE SW NE 34 SW 1W

Oolitic Lawrence Co ~ 570 swag



This is probably
Somerset shale equiv.
There are thin wispy
shale horizons. See
photos

4305466.6

541457.8

569.9