

INDIANA DEPARTMENT OF
NATURAL RESOURCES
GEOLOGICAL SURVEY

611 NORTH WALNUT GROVE
BLOOMINGTON, IN 47405

18-040 70

Thurs 13 Dec 12

Location → throughout Owensburg & Williams
Purpose → GPSing core sites + returning core
Weather → sunny to mid 40's
People → Brian + Todd

core → SDH 471 Armstrong R2012121311A
4314722.86 Popcorn Church road in abd quarry
531218.74 se ne sw 4 6N 2W
663.16 Owensburg @ Lawrence Cnty

core → SDH 472 Fancher R2012121311B
4316310.32 9755 S. Weaver Rd inside gate to South
529287.01 nw se sw 32 7N 2W
842.9 Owensburg @ Monroe Cnty

core → SDH 470 Lowder Cem R2012121312A
4312614.3 ~~9771 Cobb Lane~~ Popcorn Springville Rd
536825.7 se sw sw 9 6N 2W
875.1 Owensburg @ Lawrence Cnty

Core: SDH 469 Padgett R2012121312B
4310779.0 5248 S. Saylor Spr Rd
525053.0 se ne nw 23 6N 3W
739.3 Owensburg Greene Cnty

Core SDH 467 Brock R2012121313A
4299878.5 William-Silverville Rd @ entrance 2371
528845.2 sw se se 19 5N 2W
675.6 Williams @ Lawrence Cnty

Core: SDH 466 Baker R2012121313B
4294081.9 10244 Bear Hill Road
523141.6 SW SE NW 10 4N 3W
523.0 Williams Q Martin Cnty

Core: SDH 464 Ind. Creek R2012121314A
4295405.1 Quarry pit floor
527018.0 SE NW SE 1 4N 3W
491.9 Williams Q Martin Cnty

Core: SDH 465 Ind. Creek R2012121314B
4295711.3 Quarry barn up the h. 71
527010.4 NE NW SE 1 4N 3W
569.7 Williams Q Martin Cnty

Core SDH 462 R2012121315A
4296603.6 11795 Williams Rd in pit @ bottom of hill
525098.8 SE NE SW 23 4N 3W
517.8 Williams Q Martin Cnty

Core SDH 463 R2012121315B
4296762.7 17942 Williams Rd
525488.4 NW NE SE 23 4N 3W
617.0 Williams Q Martin Cnty

Wed 13 Feb 2013

Location NE corner of Campbellshury
Purpose GPSing outcrops
People Brian Keith + Todd Thompson
Weather overcast + cold /w 30's

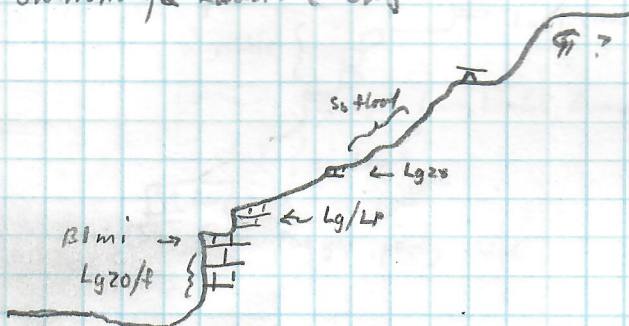
distance 10A

Site TAT 2012-001

R2012021310B

4314363.4 above old quarry on former Pike Rd $\frac{1}{4}$ E of
531824.7 of popcorn creek + SDH 471
787.8 se nw se 4 GN 2W
Owenshury + Lawrence Cng

Bethel 27.5
Paoletti 16.5
StoGen 11



next page for next outcrops

Site TAT 2012-002

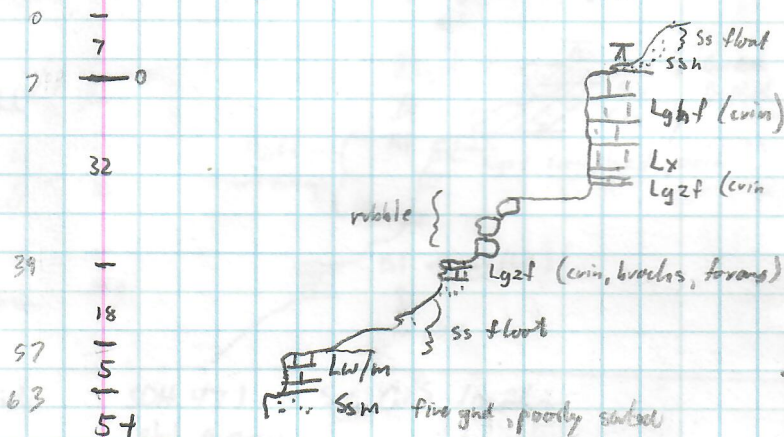
R2012021311A

abd quarry SW of intersection of Linthicum and

43164 3.9 Popcorn Rd

53244 2.6 NE NW SW 34 T10 2W

799.3 Owensburg @ Monroe County



Site TAT 2012-003

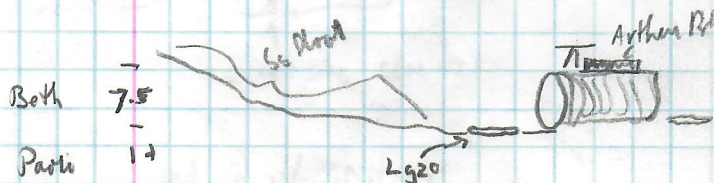
R2012021313A

43144 86.6 1/3 mi west of Popcorn on Arthur Rd on bridge over

52909 3.5 NW SW SW 5 T10 2W

657.4 Owensburg @ Lawrence Cnty

E



site

TAT 2012-004

R2012 021313B

4314278.1
529558.6
736.2

abd quarry east of Popcorn on Popcorn Rd, north
of white house
SE SE SW 5 6N 2W
Owensburg Lawrence County

Bethel

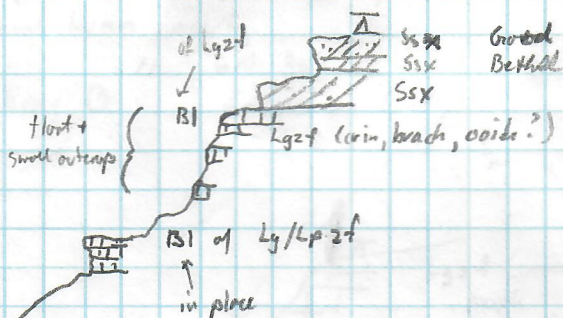
26

Pauli

36

Ste Ben

20+



site

SDH 471 - see GPS location
abd quarry

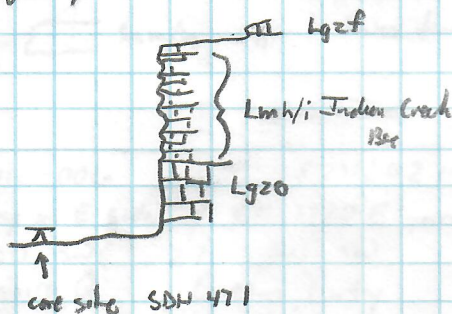
ste
Gen.

1

9

4

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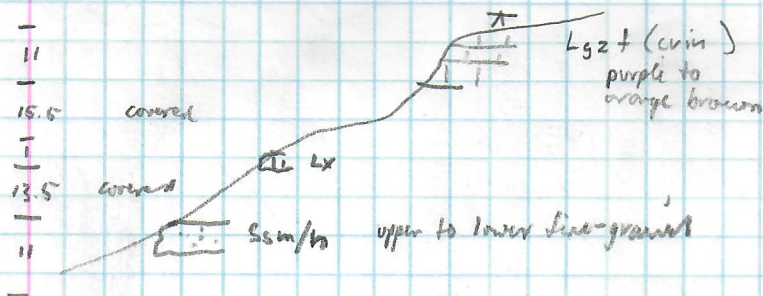


put in w/ SDH 471

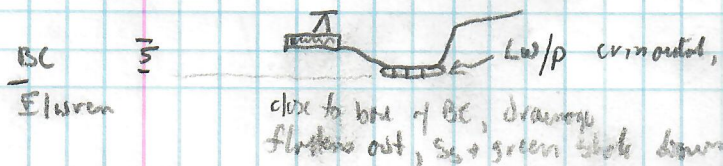
Valentine Day Thu 14 Feb 13

Location NW Owensburg Q
 Purpose GPSing outcrops
 People Brian Keith + Todd Thompson

Site 2012-005 R2012021410A
 4313894.0 N side of CR 325 S $\frac{1}{4}$ mi West of CR 1250E
 529618.7 @ Samuel Lynn property
 804.9 SE NW NW 11 6N 3W
 Owensburg Q Greene Cnty



Site 2012-006 R2012021413A
 4308060.3 Driveway on E side of CR 1120 E, near Owensburg
 529733.4 ne SW SW 27 6N 3W
 671.5 Owensburg Q Greene Cnty



sr6

TAT 2012-007

R2012 02141313

4307038.1

Drainage on W side of cemetery road
SE NE SW 3S 6N 3W

524807.6

Owensbury Q

Greene Cnty

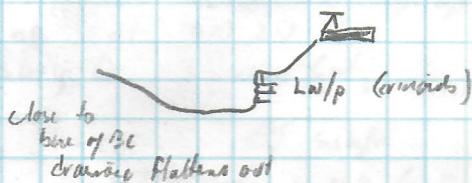
633.8

BC

Elihu

11

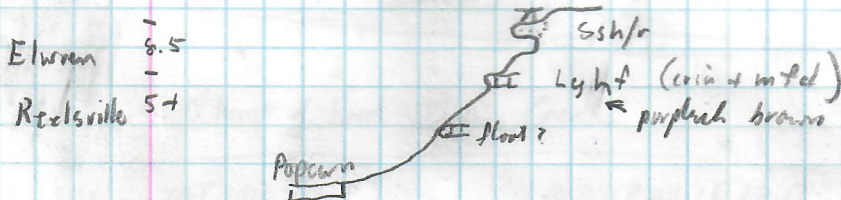
2



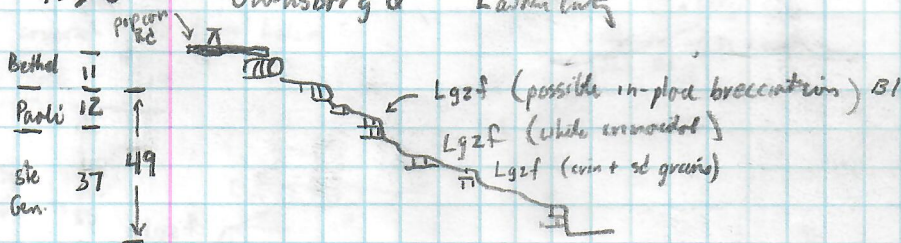
Fri 15 Feb 13

Location Central Owensburg Q
 Purpose GPSing outcrops
 People Brian Keith + Todd Thompson
 Weather Partly sunny 20°S, some snow

site TAT 2012-008 R2012 021510A
 4310807.9 Benton Popcorn Rd 1 mile NW of Springville
 531773.6 SW NE NE 21 6N 2W
 805.8 Owensburg Q Lawrence Co



site TAT 2012-009 R2012 021511A
 4310910.9 On Popcorn Rd, 10th mi NW of last outcrop
 531653.8 NE NW NE 21 6N 2W
 733.5 Owensburg Q Lawrence Co



site

TAT 2012-010

R2012021512N

4312760.2

E side of CR L6n 10W across from
Poplar Creek

5291261.0

ne nw nw 8 6N 2W

629.7

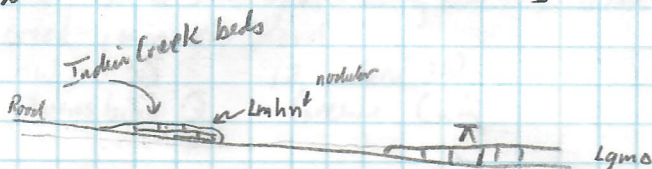
Owensburg Q Lawrence Co Ky

N

S

Ste
Gen

$\frac{4}{3}$



Outcrop of basal Indian Creek

site

TAT 2012-011

R2012021512B

4311547.6

E side of CR L6n 10W, $\frac{1}{4}$ n of Hwy 54

528285.2

sw nw se 18 6N 2W

671.1

Owensburg Q Lawrence Co Ky

TH

25

covered

40

} west basin

Pool

14

Ste
Gen

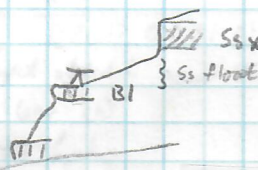
35

Lgts

Dx

Lmht
Ind
cr

B1



s. to

TAT 2012-010

R 2012 02 15 12 N

4312760.2

E side of CR L6n 10W across from
Popcorn Creek

529126.0

ne nw nw 8 6N 2W

629.7

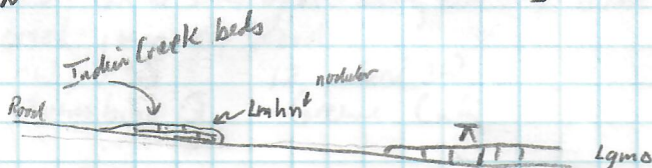
Owensburg Q Lawrence Co Ky

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Site
Gen

$\frac{4}{3}$



Outcrop of basal Indian Creek

s. to

TAT 2012-011

R 2012 02 15 12 B

4311547.6

E side of CR L6n 10W, $\frac{1}{4}$ n of Hwy 54

528285.2

SW NW SE 18 6N 2W

671.1

Owensburg Q Lawrence Co Ky

HI

covered

25

40

0

14

} west basin

Paoli

Site
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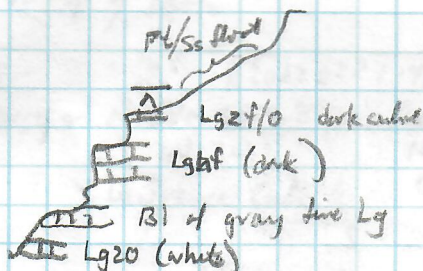
</

Thur 21 Feb 13

Location Central Owensburg Q along 57
 Purpose C/S emg outcrops
 People Todd Thompson □ + Brian Keith
 Weather partly sunny in 20° w/ breeze

Site ~~TAT~~ 2012-012 R2012022/10A
 SR54 on W side of Rd along hill side where
 IN creek joins Hs Road

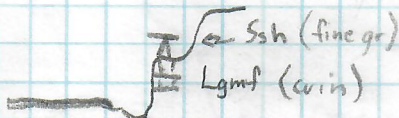
4313438.4 NW NW SW 12 GN SW
 525942.7 Owensburg Q Greene Cnty
 646.6



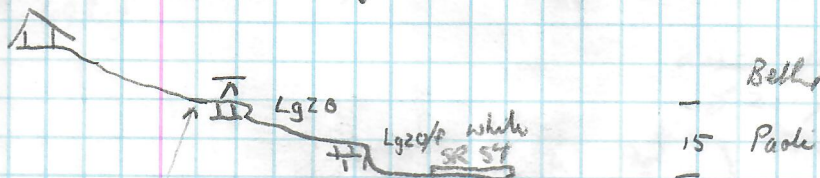
Pool 26
 Ste (an) 2.5

Site ~~TAT~~ 2012-013 R2012022/11A
 F side of SR54 on straight stretch near Ind creek
 4312161.4 SW SE NE 13 GN SW
 527145.6 Owensburg Q Greene Cnty
 655.4

Bethel
 Pool 5

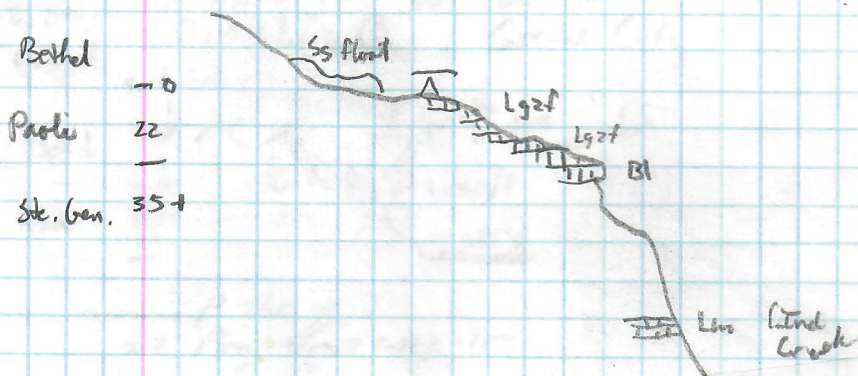


site TAT 2012-014 R2012022112A
 7316296.1 N side of SR 54, ~ 1 mi E of IN creek
 529447.8 SW SE NW 20 6N 2W
 697.2 Owensburg Lawrence



drainage sp
 hill indicates that this is top of Paoli

site TAT 2012-015 R2012022114A
 4307156.1 Abd Malott quarry on N side SR 58, 1 mi W of
 528623.4 ne sw ne 31 6N 2W Hart,
 654.3 Owensburg Lawrence Only Quarry
 N S



516

TAT 2012-016

R2012022114B

4307473.2

N side of SR58 @ abd quarry beside creek

SE NW NE

36

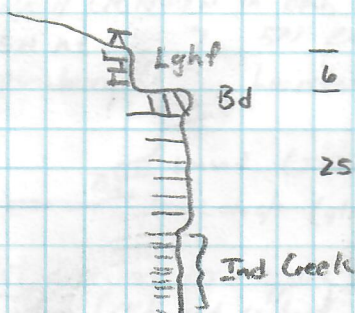
6N 3W

526930.2

Owensburg @

Greene Cnty

608.5



assume P Thk
of 22' from
TAT 2012-15

516

TAT 2012-017

R2012022115A

4307812.9

N side of SR58 west of abd Roger quarry

NE NW NW

36

6N 3W

525862.8

Owensburg @

Greene Cnty

606.8

sink hole



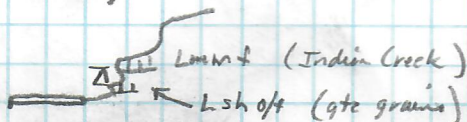
assume P Thk of
22' from TAT 2012-15

1
Fri. 7 March 2013

Location SE corner of Owensburg
Purpose GPS outcrops
People Brian Keith + Todd Thompson
Weather overcast, snowy, mid 30's

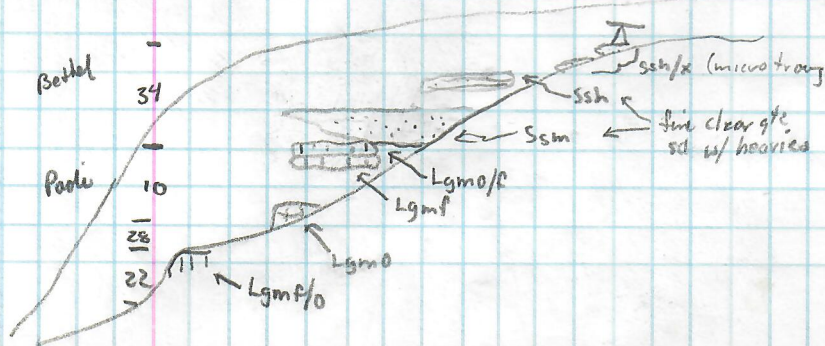
Site TAT 2012-018 R2012030111A
4303846.3 E side of CR1000W in back above rd
528516.0 se sw ne 7 5N 2W
568.2 Owensburg Q Lawrence Co

Ind. Creek 2
lower
ste. ben



NOT a contact for mapping but a lower
Indian Creek bed contact

Site : TAT 2012-019 R2012030111B
4304450.0 W side of CR1000W S of Boone Hollow Ln
528615.2 se nw ne 7 5N 2W
717.2 Owensburg Lawrence Co



Site

TAS 2012-020

R2012030113A

E side of Fayetteville-Owensboro Rd part way
up hill + ~100 yds down from intersection

4303949.4

SC SW NE

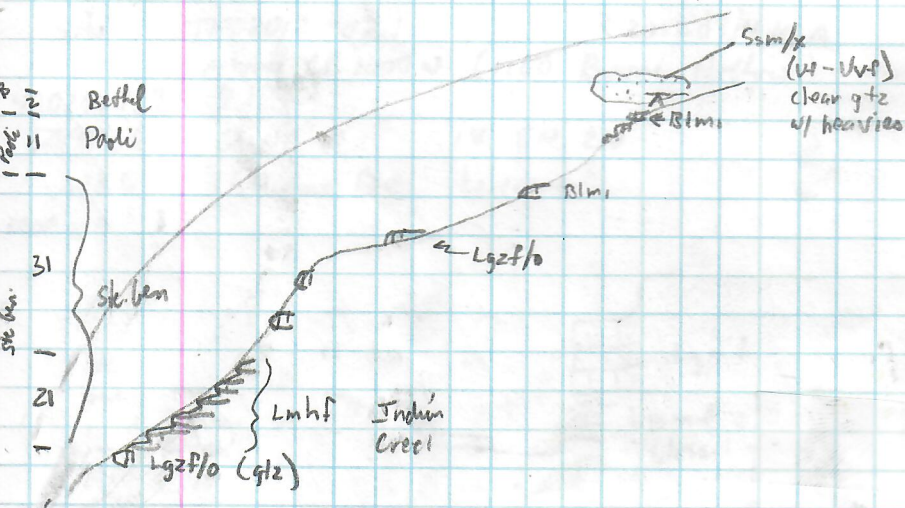
QSN 2W

531662.6

Owensboro

Lancaster Cng

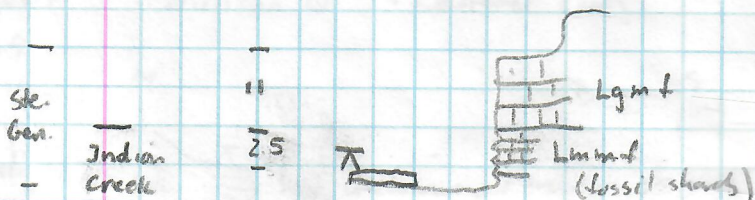
670.2



Thur 14 Mar 13

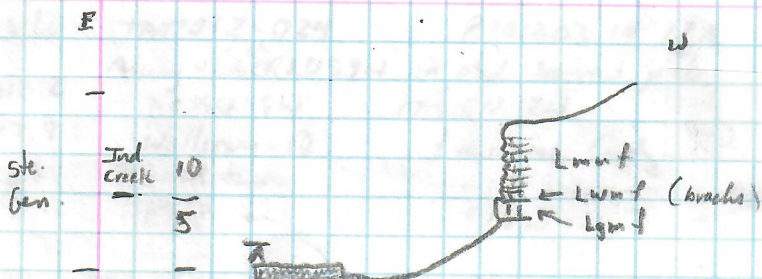
Location NE Williams @
 Purpose GPSing outcrops.
 People Todd Thompson + Brian Keith
 Weather partly sunny upper 20's to mid 30's

site TAT 2012-021 R 2012031410A
 Along CR 1000 W (1100 Boone Hollow Rd)
 4302687.0 SE NE NE 18 5N 2W
 528204.6 Williams @ Lawrence
 523.6
 PROF 2.9

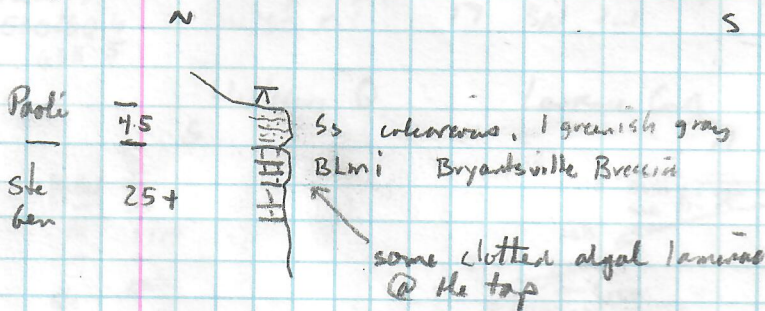


site TAT 2012-022 R 2012031410B
 $\frac{1}{4}$ mi S connection of creek + Ind Creek
 along large outcrop of Ind. Creek Bk
 4302080.4 NW NE SE 18 5N 2W
 528816.4 William @ Lawrence
 526.9
 4.1

over for drawing



Silo T4 2012-023 R202031411A
 Along SR 158, S of Bledsoe Quarry where
 we collected a core (SDH 461)
 4300941.5 NW SW NE 20 SW 2W
 536018.3 Williams @ Lawrence City
 581.4
 2.9



Smith map
 has 13' Pooli

site

TN2012-024

R20120314 12A

4302013.2

Along ^W side of CRLOS9W in old borrow pit

NE SW SW

17 SN 2W

530017.9

Williams Q.

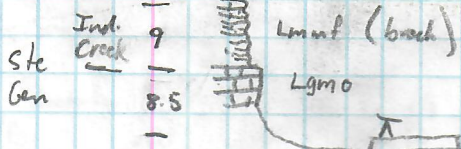
Lawrence Cnly

522.8

2.1

E

W



site

TN2012-025

R20120314 12B

4302238.0

N side of Highway Road in drainage ditch

530260.6

SW SE NE

17 SN 2W

638.5

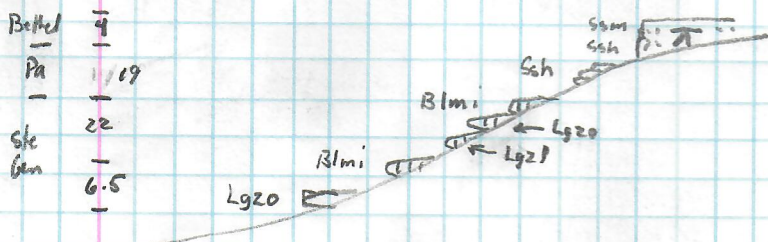
Williams Q.

Lawrence Cnly

6.0

S

N



site T4 2012-026

R 2012 03 14 13A

SCRLOS9

nw se se

20 5N 2W

Williams G

Lawrence Cnty

SE

nw

4300316.0

530.358.2

600.9

8.3

Sample

15

Ssx/m (Lf-Uvf)

Reactive

17

Lg20/f

Reelsville S

50

Ssm (Lf-Uvf)

Boiled

P

10

Lgmt (crin + corall grain)
Lgmo (bright white)

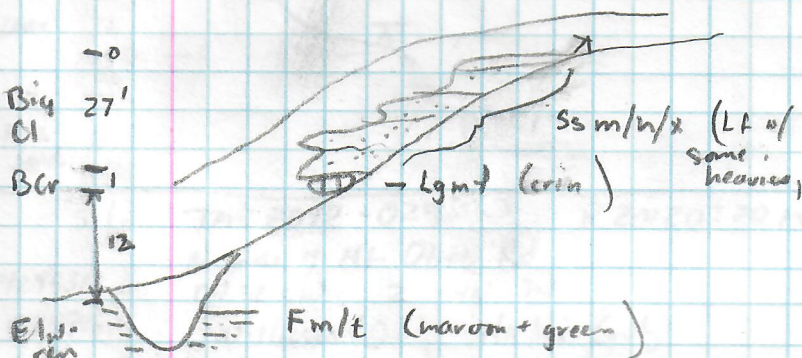
(use P + thick y
22' from set 467)

Wed 20 March 13

Location William Williams Q
Purpose G/Sen outcrops
People Todd Thompson + Brian Keiff
Weather Partly sunny low 30's

Site TR2012-027 R2012032010 A
On CR-107 on NW side of Rd
SW SE NW 24 5N 3W
William Q Marker Only

4300618.8
526492.8
703.6



Site

TAF 2012-028

R2012032013A

W side of CR 115 ad west of Indian

Creek @ prominent bluff

SW SE NW 15 4N 3W

Williams @, Martin Cnty

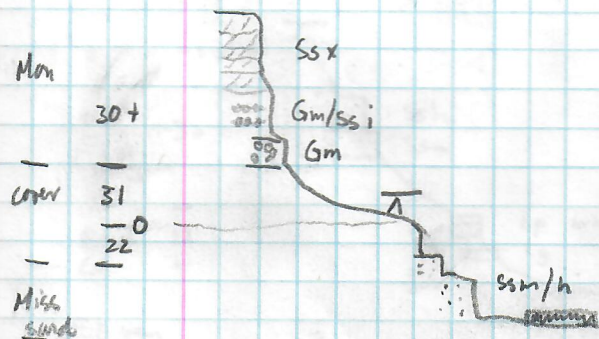
4292617.4

523159.9

556.0

W

E



Site

TAF 2012-029

R2012032014A

N side of Mt. Olive Rd

NW SE SW 2 4N 3W

Williams @, Martin Cnty

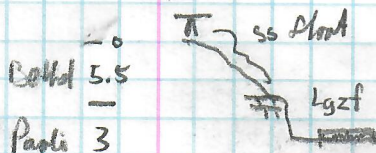
4295310.2

524946.4

505.5

N

S



51.6

TAT 2012-030

R 2012 03 20 15A

S side of CR 92 @ sharp S bend in
the road

4298701.5

52697.6

718.2

SU NW se 25 SW 3W

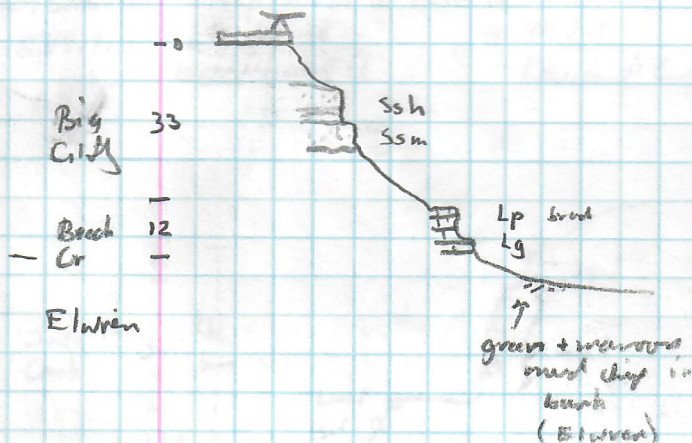
Williams

①

Martin City

N

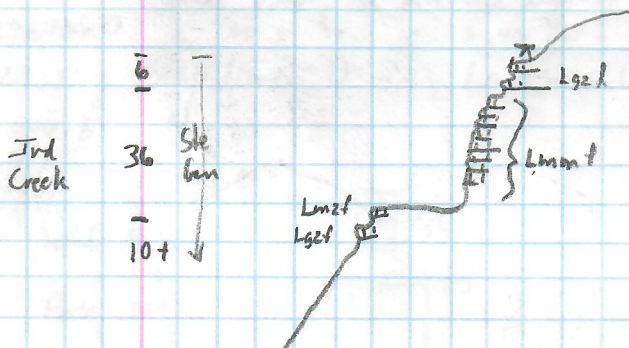
S



Thurs 21 March

Location Eastern + Central Williams Q
 Purpose GPSing outcrops
 People Todd Thompson + Brian Keith
 Weather low 30's + mostly sunny

Site TMT 2012-031 R20120321 12A
 Along SR450 and east of Williams along
 steep bluff @ bend in rd
 4295926.2 SW 46 NE 4 4N 2W
 539979.1 Williams Q Lawrence Co
 614.5



Site

TAT 2012-032

R 2012 032113A

4295552.3

S end of Dillman Rd on E side in bank
SW NW SW 5 4N 2W

529150.0

Williams G

Lawrence Cong

600.3

N

S

Bedded

3

Ssm

T

B1

Partly

4

Use P thick of 31' from
SOH 460

Site

TAT 2012-033

R 2012 032113B

4295036.0

Abd quarry in RR line west of Williams
se se se 6 4N 2W

529011.0

Williams G

Lawrence Cong

606.3

N

S

Bedded

9

Ssh

10

Lg

Partly

10+

Use P thick of 31'
from SOH 460

Fri 22 March 13

Location SW Williams Quad
 Purpose GPSing outcrops
 People Todd Thompson + Brian Keith
 Weather sunny 30°s to mid 40°s

Site ~~TMT~~ 2012034

R20120322 10A

4295037.6

On SR450 under bridge and along RR

527917.2

trucks @ intersection w/ Mt Olive Rd

SW SE SW 6 NW 2W

617.9

William O.

Lawrence Cng

S

N

B 9

Ssm
 Lgzf/o

Pa 37

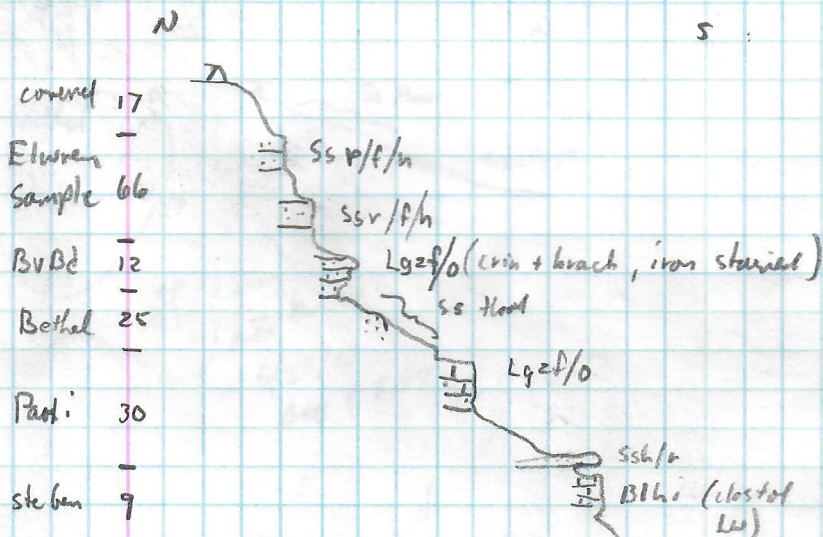
Ssh/r
 Fs (light gray to tan)
 Blhi

Ste 2

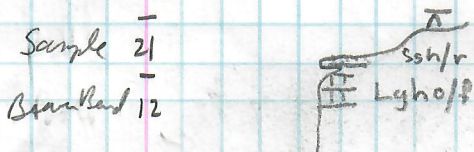
Gen.



site TMS 2012-035 R 20120322 11A
 4294699.7 S of Mt Olive Church along hwy
 ne nw nw 7 4N 2W
 527740.3 Williams O Lawrence Cng
 697.7



site TMS 2012-036 R 20120322 12A
 4292412.7 I rd off of SR 450, where White R joins the
 road
 525412.4 ne nw se 14 4N 3W
 594.0 William O Maher Cng
 E W



Site

TAT 2012-037

R2012 0322 13A

Low Gap road just S of abd Pacific RR

4294198.7

SW SE NE

11

4N

3W

525491.6

Williams Q

Martin Cms

569.8

S

N

Bethel

0

6

Park

2

T

Ss Flood

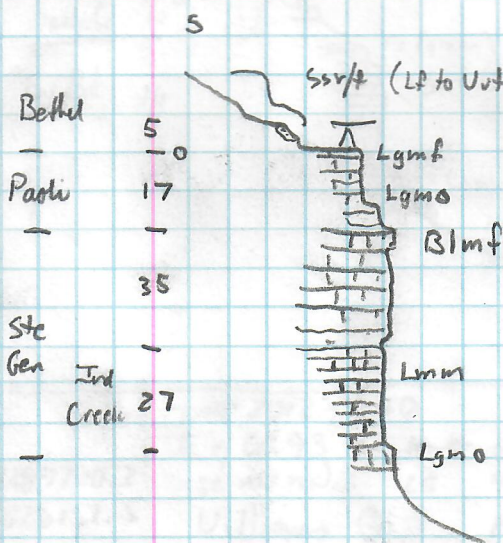
Lg 20/f

not use
in data base
6/26/13
BOL & TAT

Thurs 28 March 13

Locations SE Williams Quad
 Purpose GPSing outcrops
 People Todd Thompson, Brian Keith, Matt Gray
 Weather Sunny mid 30's to upper 40's

Site JAT2012-038 R2012032810A
 4294180.1 S of covered Williams Bridge
 529013.1 30 SE NE 7 4N 2W
 601.1 W. Williams @ Lawrence Cnty



Provel thinned
 than in area overall
 and no Bethel outcrop
 only flat
 Do not use in
 database

side

TAT 2012-039

R20120328 1/1

S of Williams farm along whole

4289267.7

ne ne sw

26 4N 3W

524920.4

Williams @

, Martin Cnty

567.0

E

W

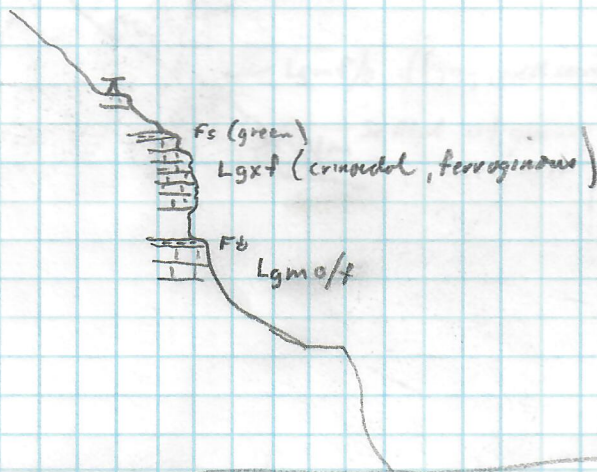
Sample

10

Bu Bc

16

5



side

TAT 2012-040

R20120328 13A

E of CR93 on knoll @ top of hill

4289780.3

se nw nw

25

4N 2W

526151.5

Williams @

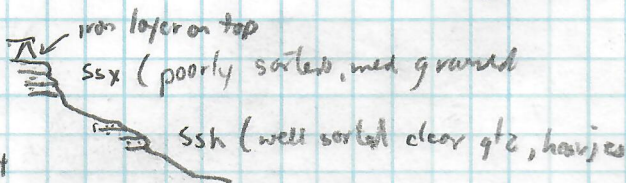
Martin Cnty

763.7

10

Rm 16

MWB 5+



Site

TW 2012-041

R20120328, 4A

Huron-Williams Rd on E side N of spring

4289937.6

nw ne ne 30 4th 2w

528841.5

Williams Q

Lawrence Cof

529.7

E

W

Bethel

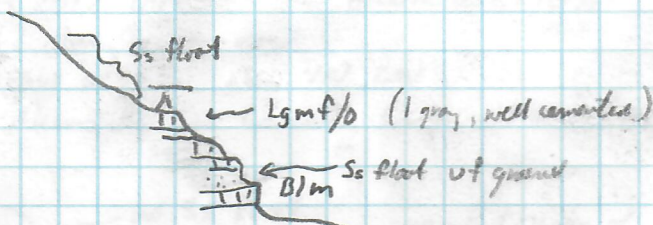
-0

Pooli

32

Steben

2



Fri 29 March 13

Location SE Williams Over
Purpose APSing outcrop
People Todd Thompson, Brian Keith, Walt Gray
Weather hazy upper 30° to mid 50°c

Srto

JAT 2012-0412

R2012 0329 10 A

4291798.0

Abd along river road

se sw se

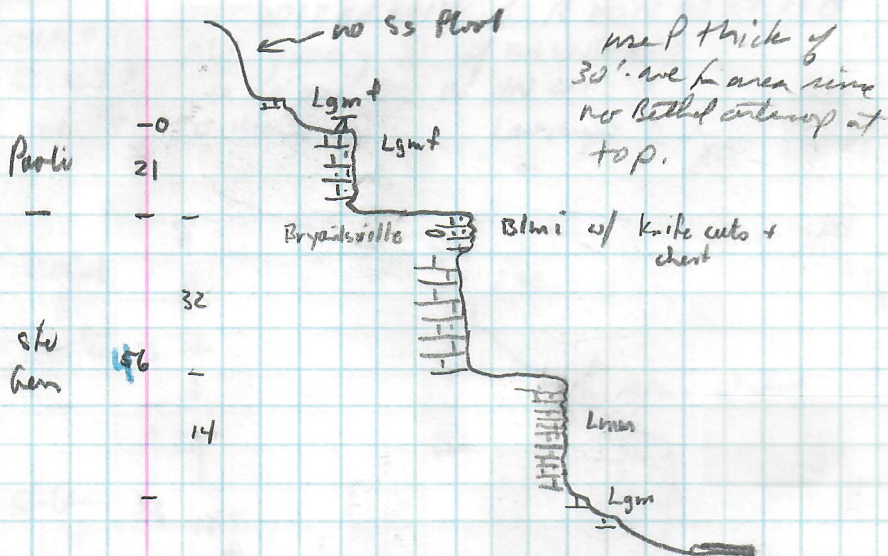
18 4W 2W

528497.3

Williams Q

Lawrence Cng

535.5



Site

TAT 2012-043

R 2012 03 29 13A

4291252.5

Abd quarry on E side of CR 900 W

530788.0

ne sw nw 21 4N 2W

596.0

Williams Q

Lawrence Cng

Bethel

7.0
4.5

Parli

7.5

← Ss flint

← Lght (white, crinoids + msh)

use p thickness of 27 from SOH 156

4292970.1

TAT 2012-044

R 2012 03 29 13B

531467.2

Abd quarry N of Port Williams Rd

625.5

se ne nw 16 4N 2W

Williams Q

Lawrence Cng

Bethel

9

Parli

23 32

St. Gen.

33 47.5

14.5

← Ssh

Blk w/ chert

Lawrence

Thurs 20 June '13

Location → McConnell's Creek SP
Purpose → Coring
People → Brian, Todd, Paul Cottle, David
Weather → Sunny some clouds, 70°s to low 80°s

Site In Service area by wood pile
See GPS on watch
39.17033, 86.53618

0-17 Red clay-rich soil

17-32.5 finey downward sequence from

1/2 - 1/8 sd going to Ust to Lut

32.5-39.5 sdy gray clay

39.5-41 clayey fm sd w/ granules

41-41.35 sdy gray clay w/ pebbles of gtz
+ quartz, ss + siltstone

Site East of horse barn
SDH 4150 GPS Sam watch

39.25003 86.63376

0-21 reddish brown soil

21-26.9 dk gray sand clay w/ quartzite + metamorphic
rock fragments, fine gravel downward,
till

26.9 bedrock

Wed 4 Dec 2013

Purpose GPSing core sites
People Brian Keith + Todd Thompson
Location Monroe + Owen Counties
Weather Cool, damp, 50's + foggy

site : SDH 479

R 2012 1204 12A

4316606.92 SE SW NW 34 7N 2W
532479.47 Monroe County, Oolite Q
855.6

site SDH 481

R 2012 1204 13A

4348903.1 NW NW SW 22 10N 3W
522377.4 Gosport Q Owen Co
579.79

site SDH 480

R 2012 1204 14A

4348753.84 NE NW SW 23 10N 3W
524212.31 Gosport Q Owen Co
749.1