

STATEMAP



"Rite in the Rain"

ALL-WEATHER

Geological

FIELD BOOK

No. 540 F

2003-2004

2004-2005

Location Big Creek Headwaters Date 3/08/04
 Project/Client StateMap 2003-2004

(502) ss above the Mbss
 90°W, N5°E 35 47 42 (45)
 Joints: N/S 93 06 15.7 ±28' (23')
 (15.9)

(503) Fault thru Mbss
 trend: N15°W? 35 47 11.3 (16.9)
 Upper Bloyd South? 93 06 17.1 ±27'
 (22')

(504) Lower Bloyd / Mbss slightly
 higher on west 35 47 12.1
 side of drainage 93 06 12.9 ±20'
 N20°E, 4°NW Joints: N/S

(505) Cave Hill / PPh contact
 Good contact 35 47 14.6
 in creek 93 06 07.5 ±22'
 N10°W, 10°SW

(506) Contact? PPh / Phg dipping
 N60°W, 4°W 35 47 22.1 ±23'
 N70°W, 16°N 93 05 52.7

Location Upper Big Creek Date 3/08/04
 Project/Client StateMap 2003-2004

(507) Lower Bloyd / Mbss
 Contact slightly 35 47 35.0
 higher 93 05 17.7 ±17'

(508) PPhc / PPhg 35 47 34.0
 covered slope 93 05 44.6 ±22'
 N15°E, 11°W

Big
 Upper Devils Fork 3/09/04
 Moore Quad

(509) ss in drainage, WITTS SPRINGS?
 Joints: N60°W, N40°E 35 49 02.0
 N5E N80°W, N45E 92 57 41.0 ±26'
 N30E N55E

(510) WITTS SPRINGS? in drainage
 Dipping: N10°W, N60°W 35 49 09.4 ±24.
 92 57 28.1

(511) Top of the WITTS SPRINGS
 Spectacular view 35 48 25.8
 over looking Richland
 Creek & Stump Mtn. 92 57 33.3
 Could be the pre-thrust
 place yet ±20

4

Location Ricland Creek Date 3/09/04Project/Client State map 2003-2004

(512) Phc/Witts Springs
 Covered slope 35 48 24.1
 lots of breakdown 92 57 45.0 ±28'

(513) Phc/Witts Springs
 Covered slope 35 48 23.3
 seems continuous 92 57 34.1 ±22'

(514) Long Devils Fork, Devils Waterfall
 Pitkin: 8°W, N35°W 35 48 19.5 (22)
 took several pictures Joints: N50°E, (51.9)
 Twin Falls

(515) Contact: Phc/Witts Springs
 Covered slope 35 48 24.6
 good bluff 92 57 56.6 ±26
 (56.2)

(516) Good ss bluff, non calcareous (38.7)
 End of Big 35 48 39.0 ±18' (16')
 Middle Ridge 92 58 00.2 (00.3)

(517) Base of ss bluff Mbss?
 looks like 35 49 56.8 ±25
 pedestals 92 58 15.0
 contact maybe slightly higher

Location S of Hill Cemetery Date 3/09/04⁵Project/Client State map 2003-2004

Scale

(518) X-bedded, silica cemented
 ss. Appears to 35 50 10.4
 be below Mbss? 92 58 26.4 ±8'

Big Middle Ridge 3/10/04

(519) Mbss / Upper Bluff
 Great bluff overlooking 35 48 59.8
 Long Devils Fork 92 58 23.9
 Pedestals being formed. ±24'
 Joints: N45W, N45E

(520) Lower Bluff / Mbss
 covered slope 35 48 58.8 (57.3)
 sunny day 92 58 21.2 ±24 (22)
 but windy (21.4)

(521) ss package Phc / Lower Bluff
 could be far enough 35 48 48.5
 south to not be 92 58 10.8 ±16'
 the Witts Springs

(522) Mbss / Upper Bluff
 covered slope 35 49 19.7 ±17
 below old house 92 59 01.0
 place

Location Big Middle Ridge Date 3/10/04
 Project/Client Statemap 2003-2004

(523) Mbss / Upper Bloyd
 Covered slope 35 49 47.8
 92 59 05.8 ±21
 (06.0)

North of Ketcherside Mtn

(524) Mbss / Upper Bloyd
 Covered slope 35 49 12.9
 93 00 26.7 ±21'

(525) Lower Bloyd / Mbss
 Covered slope 35 49 05.2 ±25'
 Burning 6,167 93 00 23.2 (23.0)
 acres just north of here

(526) Base of ss package
 Shale below 35 48 28.4
 PHP / Wills? 93 00 10.4 ±20'



Location Dickey Jct Mtn Date 3/11/04
 Project/Client Statemap 2003-2004

(527) Mbss / Upper Bloyd
 Covered slope 35 50 30.8
~~very~~ windy delay 92 57 59.7 ±26

(528) Mbss / Upper Bloyd maybe higher
 covered slope 35 50 10.4
 good bluff 92 57 53.9 ±25'

(529) Mbss / Upper Bloyd? ss package
 covered slope 35 49 37.2
 92 57 45.4 ±20'

(530) Mbss / Upper Bloyd
 covered slope 35 49 42.4
 bluff very weathered 92 57 24.1 ±20'

(531) Mbss / Upper Bloyd
 covered slope 35 49 48.4
 92 57 43.1 ±18'

Hill Cemetery

(532) PHP / Wills?
 N55E, 70SE 35 50 19.0 ±13
 fault just south 92 58 19.9 ±13

Location Hill Cem Date 3/11/04Project/Client Statemap 2003-2004

(533) Fault cutting thru the
 Pph or Wills 35 50 18.5
 Appears to be 92 58 20.1 $\pm 25'$
 striking SE

Mtn North of 3/15/04
 Stump Mtn
 (Near Searcy/Newton line)

(534) Pph or Wills Springs
 Covered slope 35 48 35.9 $\pm 18'$
 92 57 23.5

(535) Top of Mbss ?
 Covered slope 35 48 42.3 (42.6)
 very broken up 92 57 05.8 $\pm 21'$
 (17')

(536) Base of Mbss ?
 Covered slope 35 48 47.6
 92 57 10.9 $\pm 19'$

(537) Top of Mbss
 covered slope 35 49 07.7 $\pm 20'$
 Fault? 92 57 01.7

Location Richland Creek Date 3/16/04Project/Client Statemap 2003-2004

North side of Twin Falls Trail Scale

(538) Contact: Pitkin/Cave Hill
 Covered slope w/ 35 48 14.7
 lots of rubble 92 56 46.2 $\pm 22'$

(539) Contact: Cave Hill/Wills?
 good contact 35 48 29.2
 fault: N35E 92 57 04.1 $\pm 20'$
 small spring in ss joint

(540) Pph/Wills?
 covered slope 35 48 27.5
 thin bedded 92 57 19.3 $\pm 22'$
 below massive

(541) Pitkin/Cave Hill
 covered slope 35 48 24.1
 maybe slightly 92 57 17.3 $\pm 19'$
 higher

South of Stack Rock

(542) Contact: Cave Hill/Wills
 good bluff contact 35 52 13.8
 fault near here? 92 54 40.1 $\pm 18'$

Location South of Stack Rock Date 3/16/04

Project/Client Statemap 2003-2004

(543) Cave Hill/Withs Springs
 good bluff 35 52 11.9
 Contact 92 54 29.0 ±21'

(544) Contact: Cave Hill/Withs Springs
 Covered slope 35 52 10.4
 N15°W, 7°E/SE 92 54 53.9 ±17'
 Joints: N10°E, N10°W, N/S
 N5°E, 11°E

(545) Cave Hill/Withs
 Covered on Rd 35 52 06.9
 appears heavily 92 54 57.6 ±17'
 dipping in some places
 N25°W, 5° ~~W~~ W/SW

NE of Long Branch 3/17/04
 near Richland

(546) Cave Hill/Withs?
 Med-mass. bedded 35 47 27.9 ±20'
 ss, minor X-bedding. 92 55 31.6
 nice spring day, already feels hot
Lots of SUNSHINE

Location Long Branch Date 3/17/04¹¹

Project/Client Statemap 2003-2004

Scale

(547) Cave Hill/Withs?
 good bluff w/ 35 49 26.3 ±19'
 Fe 3 Mn staining 92 55 42.7

(548) Cave Hill/Withs? 35°E/NSOE, N85W
 very jointed and N10W/50E, N25W
 broken. Took some 35 49 48.3 ±27'
 goods pics of a 92 56 08.0 ±27'
 pedestal then stuck a barb in my thumb
 N30E; 4°W/NW

* (549) Mass/Upper Boyd slightly
 lower. Very nice 35 50 25.0
 Cabin dedicated 92 56 42.0 ±26'
 IN MEMORY OF (cabin)
 Carl McCutcheon, there has been
 alot of time and care put
 into this place. Alternate
 ? Landing Zone: 35 50 51 35 50 25
 92 56 33 92 56 39

Drury Hollow

(550) Cave Hill/Withs?
 good bluff 35 50 6.6 ±26'
 heavily weathered 92 55 10.7

Location Drury Hollow Rd Date 3/17/04

Project/Client Statemap 2003-2004

(551) Mbss / Lower Bloyd
 Covered slope 35 50 42.7 ± 28'
 92 56 10.0

Turnpike Hollow

(552) Cane Hill / Withs Spring ?
 Contact is approx where the
 OH T crosses the rd for the
 4th time. After the split
 in the Rd.

Mt South of Blaylock Mtn 3/18/04

(553) Lower Bloyd / Mbss
 Covered slope 35 51 06.0 (6.2)
 Fault? No deformation 92 58 04.4 ± 20'
 Bands seen (4.5)
 N35W, N80W, N/S

(554) Slightly below top of Withs
 looks like bluff 35 48 45.5 ± 22'
 is breaking away 92 55 50.1

Below Big Point

Very warm today Found puppy

Location Healey Branch Date 3/22/04

Project/Client Statemap 2003-2004

Scale

(555) Mbss, Contact w/ Upper 15
 slightly higher 35 48 17.1
 No fault seen 93 06 26.9 ± 17'
 N50W, 50 ESE

Xbeds in the drainage dipping
 N58W, 19°SSW

(556) Mbss / Upper Bloyd, no fault
 seen, covered 35 48 27.3 (27.2) ± 15'
 slope 93 07 01.3 (01.2)

Hudson Mtn Falls Shelter

(557) Lower Bloyd / Mbss
 good contact 35 51 05.2 ± 40'
 shelter is approx 93 07 27.8 (27.8)
 75' deep / 100' wide

(558) Mbss / Upper Bloyd
 Covered slope 35 51 07.4 ± 27'
 93 07 27.6

Location Sugar Tree Knob Date 3/23/04
 Project/Client StateMap 2003-2004

(559) 1st sandstone above the
 Mbss. Weathered, 35 48 85.9
 covered slope 92 58 38.5 ±15'

FS Road off of Sutton Knob

(560) Looking far Mbss
 covered slope 35 48 22.7 (22.9)
 some ss 92 59 14.0 ±18' (17.0)
 (13.9)

(561) Sandstone in creek, tributary
 to Devils Fork 35 48 30.3 ±19'
 With Springs? 92 59 24.4

(562) Mbss on old FS road
 covered slope 35 47 37.9 (58.0)
 92 59 31.6 ±25'
 (31.5)

Hideout Hollow

(563) Mbss / Upper - Bloyd
 covered contact
 good bluff w/ 35 45 20.4
 small Water Fall 92 59 44.4 ±18'

Location OHT Richland Creek Date 3/24/04
 Project/Client StateMap 2003-2004

(564) Pitkin / Cane Hill
 covered slope 35 50 55.5 ±27'
 nice, warm day 92 54 08.7
 today. Jerry & Walter have joined us

Near Drury Hollow OHT

(565) Pitkin / Cane Hill
 covered slope 35 49 51.6 (62.0)
 good contact 92 54 56.5 ±25' (20')
 (57.0)

(566) Pitkin / Cane Hill
 covered slope 35 49 23.1 (22)
 on OHT 92 55 07.8 ±35'
 50 76 46 E (07)
 39 64 103 N

(567) Pitkin / Cane Hill
 covered slope 35 48 27
 good bluff 92 55 19

Location Falling Water Creek Date 3/25/04Project/Client Statemap 2003-2004OHT

(568) Cane Hill / WITs Springs
 good bluff 35 45 07.5
 ON OHT 92 56 28.1 ± 27'

(569) Lower Boyd / Mbss
 covered slope 35 45 11.5
 on OHT 92 56 28.7 ± 22'

(570) Cane Hill in creek
 Joints: 35 45 29.0 15'
 N10E, N20E, N48E 92 56 18.2 ± 20'

(571) Contact: Cane Hill / WITs
 covered slope off 35 45 25.6
 of old FS road 92 56 20.7 ± 20'

(572) Contact: Cane Hill / WITs
 covered slope above 35 45 54.3 (54.5)
 Waterwall (78') Very 92 55 31.4 ± 28 (32)
 tough climb (31.5)

Location Falling Water Creek Date 3/25/04¹⁷Project/Client Statemap 2003-2004Rd to WITs Springs # 1219

Scale

(573) Contact: Cane Hill / WITs
 bluff on rd 35 45 18.7
 going up hill 92 56 05.4 ± 20'

—————
 Jack Jones Hollow 3/29/04
 Moore Quad

(574) Contact: Cane Hill / WITs?
 Good bluff 35 46 04.2
 Looks like 92 58 17.9 ± 22'
 rain is coming

Rose Hollow

(575) Contact: Cane Hill / WITs?
 Good bluff 35 46 37.8
 ± 40' 92 58 36.2 ± 19'
 (35.5)

(576) WITs? on both sides of the
 drainage. Appears 35 46 54.0 ± 22'
 to be mod. dipping. 92 58 32.0
 fault pass thru
 near here

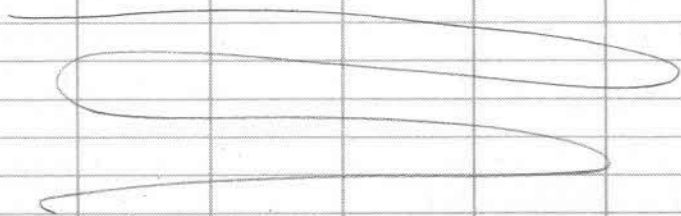
Location Richland Creek Date 3/29/04
 Project/Client Statemap 2003-2004

(577) Withs Spring ? dipping in
 Hollow. 35 46 55.2
 N75°W, 10°NE 92 58 34.8 ±20'

(578) Bluff coming from the North
 ends. P_{hc} or 35 46 56.3
 P_{hp}? Also appears 92 58 37.3 ±20'
 to be dipping N55E, 7°E/SE

(579) Contact: Base of ss. maybe
 Withs or P_{hc}. 35 46 23.1
 covered slope 92 58 48.0 ±23'
 Jack Jones Hollow

(580) Base of ss. Withs or P_{hc}?
 Good bluff slightly 35 45 53.8 (531)
 higher than point 92 58 14.7 ±35
 (140)



Location Richland Creek Date 3/30/04
 Project/Client Statemap 2003-2004
Stump Mtn Scale

(581) Contact: Lower Bloyd / Mbss
 Contact maybe slightly 35 45 24.7
 lower. Good bluff 92 56 34.5 ±30'
 Joints: N/S, N40°E, N60°E

(582) Contact: Mbss / Upper Bloyd
 May be slightly 35 45 49.8
 higher. Covered 92 56 41.6 ±18'
 slope Cool, windy day

(583) Contact: Mbss / Upper Bloyd
 covered slope 35 47 1.0
 nice camping 92 57 19.4 ±22'
 area someone has set up

Rose Hollow

(584) Mbss / Upper Bloyd
 may be higher 35 46 43.2
 covered slope 92 57 28.0 ±19'
 appears to be dipping 3 ends here

Stump Mtn

(585) Contact: Mbss / Upper Bloyd
 covered slope 35 47 06.3 ±18'
 CONTINUOUS around 92 57 27.5

Location Richland Area Date 3/31/04

Project/Client Statemap 2003-2004
off of NE1205

(586) Cane Hill drainage w/ Falls
50°W, 35°E 35 45 47.1
N15, 65°W 92 56 14.8 ±25'
Possible contact @ top of bluff

(587) Landslide zone, Phc to the
South, fault appears 35 45 56.3
to go thru here 92 56 10.8 ±20
or near here

(588) Phc dipping up from creek
N15°W, 39°W/NW 35 46 13.1
Fault probably 92 56 10.4 ±19'
right thru here

(589) Possible Contact: Phc/Wi#5
N15°W, 43°W 35 46 14.6 ±19'
92 56 12.3 ±19'
Changes from shaley to sandy, some tree fossils

(590) Fault zone 35 46 13.8 ±19'
92 56 14.6 ±19'

Location Middle Richland Date 3/31/04

Project/Client Statemap 2003-2004
South of camping area Scale

(591) Base of Wi#5 or Mb35
covered slope 35 46 14.6
Good bluff 92 56 16.6 ±28'

(592) Contact: Phc/Wi#5
Contact may be 35 46 26.0
slightly higher 92 56 21.2 ±22

(593) Pitting in creek dipping
N50°E, 7°S/SE 35 46 27.2
Joint: N45°E 92 56 03.5 ±23'

East of Bobtail Creek

(594) Lower Bloyd/Mb35 (10.5)
Contact covered 35 46 10.6 ±19'
& very broken up 92 54 35.2 (35) (16)

(595) Top of a ss unit
Wi#5/Mb35? 35 47 32.9
Nice view of the 92 55 19.7 ±16'
Creek & camping area

Location Bobtail Creek Date 3/31/04
 Project/Client Statemap 2003-2004

(596) WITTS SPRING? IN drainage
 Contact may be 35 46 55.5
 higher, covered 92 54 21.1 ±19'
 slope Good FS rd

(597) Contact: Phc / WITTS
 Covered slope ON 35 47 02.5
 old FS Rd 92 54 13.9 ±22'

Richland Creek 4/1/04

(598) Possible contact Phc / WITTS
 N45E, 50SE may be lower
 good bluff 35 48 03.1 (18')
 92 54 43.8 ±25'

(599) Looking for PITKIN in the
 creek. Not even 35 48 14.2 (21')
 any float seen 92 53 59.8 ±30'

(600) Contact: Lower Boyd M bss
 ON FS rd 35 47 19.1 ±17'
 92 54 21.8

Location Lower Richland Date 4/05/04²³
 Project/Client Statemap 2003-2004

Wasson Cemetery Rd Scale

(601) Colitic, Petro/liferous ls
 above shale unit. 35 52 25.4
 Appears to end 92 53 35.7 ±15'
 here.

(602) Inter-bedded shale & ls, ls
 appears fossiliferous 35 52 03.2
 but also a little 92 53 28.4 ±23'
 sandy. Good trace
 fossils, Hindsville/Batesville?
 Joints: 150W, 750E

(603) Contact: Fayetteville / Pitkin
 Covered slope, contact 35 52 02.2
 may be slightly 92 53 06.0 ±19'
 higher.

Wasson Cm Rd 04/06/04

(604) Contact: Phc / WITTS
 covered slope 35 50 51.9
 small bluff 92 53 04.1 ±24'

(605) ss unit near the Pitkin
 basal Phc? 35 50 57.5 ±20'
 92 53 06.7

Location Lower Richland Crk Date 04/06/04

Project/Client Statemap 2003-2004

(606) Contact: Fayetteville / Pitkin
 covered slope 35 51 12.6 ± 19' (15')
 92 53 02.0

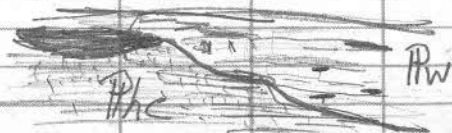
(607) Fayetteville in the creek
 may be shale in the Pitkin 35 48 47.7 ± 23'
 92 55 16.6

(608) Pitkin above the creek
 covered slope 35 48 42.9 ± 16'
 possibly the top 92 55 14.5

(609) Contact: Pitkin / Phc
 contact slightly higher, covered slope 35 49 40.1 ± 19'
 92 54 40.1

(610) Contact: Phc / Wills
 thick ss unit 35 49 05.9 ± 17'
 med 3 thick beds 92 54 36.4
 contact on Rd

Wills Spring cuts down into the
 Phc ≈ 15'



Location Richland Creek Date 4/06/04

Project/Client Statemap 2003-2004

(611) Contact: Phc / Wills
 covered on Rd 35 49 14.7 ± 20'
 contact has risen quiet a bit 92 54 28.0

(612) Contact: Wills Spring / Mbs
 covered on Rd 35 49 08.4 ± 21'
 92 54 13.1

(613) Contact: Wills / Mbs
 just had to winch the Jeep out at top try to bypass a gate
 35 49 25.9 ± 21'
 92 53 27.0

Richland Creek 4/07/04

(614) Wills Springs along old FS rd out of County Rd 270 35 49 43.5 ± 19'
 92 53 04.8 ± 23'

(615) Contact: Pitkin / Cave Hill
 covered slope on Rd Pitkin higher here than yesterday 35 50 14.4 ± 20'
 92 53 57.2

Location Lower Richland Creek Date 4/07/04
 Project/Client Statemap 2003-2004

(616) Pitkin bluff above creek
 above hunting cabin 35 49 55.8
 92 54 12.3 $\pm 28'$

(617) Fayetteville/Pitkin contact
 just slightly higher covered slope 35 49 41.5
 inter bedded ss units 92 54 31.7 $\pm 27'$

Drainage to Little Bobtail Crk 4/08/04

(618) Contact. Withs / Mbss
 good contact in drainage behind church 35 47 20.1
 92 51 59.5 $\pm 20'$

(619) Contact. Cave Hill / Withs
 good bluff covered slope 35 47 17.2 $\pm 20'$
 92 52 35.6

Long Pool Piney Crk 4/12/04

(620) Contact. Lower Boyd / Mbss
 good bluff water fall 35 32 57.0
 93 09 08.0 $\pm 25'$

Location Piney Creek Date 4/12/04
 Project/Client Statemap 2003-2004

North of Long Pool

Scale

(621) Approx 6' ss layer above
 the Mbss. 35 32 53.7 $\pm 18'$
 Cross bedded. 93 09 13.1 $\pm 20'$

(622) ss unit in drainage
 possibly the Atoka covered slope 35 33 00.0 $\pm 18'$
 93 08 50.0 (4978)

(623) Lower ss unit. This could
 be Atoka or maybe Mbss. Covered slope 35 32 53.1
 93 08 54.5 $\pm 22'$

Upper Cave Creek 4/13/04

(624) Contact: Cave Hill / Phg
 covered slope cooler than normal day 35 50 35.9 $\pm 19'$
 93 02 26.0

(625) Contact: ? Phg / Lower Boyd
 ss unit 10-15' thick covered slope 35 50 26.4 $\pm 20'$
 93 02 46.3

Location Upper Cave Creek Date 4/13/04
 Project/Client Statemap 2003-2004

(626) Phg along old FS rd appears
 to be dipping 35 50 26.9
 along the drainage 93 02 41.1 $\pm 22'$
 Joints: 50°E, 80°W
 N60E, 9°SE Silica Cemented

(627) Phg continues along the rd
 until here where 35 50 21.4
 it heads up the 93 02 35.2 $\pm 21'$
 drainage. Dipping down to here.

(628) Phg along rd dips down into
 the Fault. Deformation 35 50 19.4
 bands seen, Covered 93 02 30.1 $\pm 19'$
 Slope. Joints: 100W, 30°W
 Actual Fault plane just north

(629) Contact: Phg / Lower Blayd?
 Covered slope on 35 50 13.9
 Old FS Rd 93 02 14.4 $\pm 30'$

(630) 2nd ss unit above the Mbs
 Covered slope 35 49 22.5
 on rd 93 02 11.6 $\pm 21'$

Location Boss Hollow Date 4/13/04
 Project/Client Statemap 2003-2004

Near wind a... Scale
 (631) Good ss bluff just up
 from Boss Hollow, 35 46 10.3
 X-bedded, 30-40' 93 06 36.4 $\pm 22'$
 looks like Mbs? Med grain
 some Fe & Silica cementation
 Joints: 60E, 100W, 20°W, 75°W
 Also some overturned X-beds

Davis knob 4/14/04

(632) Contact: Phc / Phg
 Covered slope 35 47 20.4 $\pm 25'$
 thought the fault 93 14 35.9
 went thru near here

(633) Contact: Mbs / Upper Blayd
 Good contact, possible 35 47 02.6
 fault near here 93 14 40.1 $\pm 22'$

(634) Possible top of Mbs
 Covered slope 35 47 12.8
 fault near? 93 14 34.4 $\pm 16'$

(635) Contact: Mbss / Upper Bloyd
 Covered slope, appears
 lower here than $35\ 47\ 21.9$
 across the valley $93\ 14\ 31.3$ $\pm 16'$

Boss Hollow 6-01-04

(636) Mbss / Upper Bloyd
 good waterfall $35\ 45\ 9.7$ $\pm 17'$
 U. Warm today $93\ 07\ 17.9$

(637) Top of Mbss? Sandstone
 Package in ditch,
 Rd to Boss Hollow $35\ 46\ 3.5$ $\pm 23'$
 from Hwy. $93\ 07\ 7.5$

Boss
 near Cave Creek

(638) Fayetteville / Pitkin (215)
 slightly higher $35\ 52\ 21.3$ $\pm 16'$
 above Rd $93\ 00\ 05.5$

(639) Boone dipping in creek
 N30E, 9° WNW $35\ 52\ 19.4$
 nice tree $92\ 59\ 1.7$ $\pm 24'$
 impression found

HINDSVILLE
 (640) Contact: Batesville / Fayetteville
 CONTACT SLIGHTLY $35\ 51\ 31.5$ $\pm 19'$
 LOWER IN CREEK $92\ 58\ 47.5$

(641) FAYETTEVILLE DIPPING IN CREEK
 N80W, 23°S $35\ 51\ 26.1$ $\pm 20'$
 DIPPING APPEARS TO $92\ 58\ 44.9$
 BE ONLY LOCAL

(642) FAYETTEVILLE / PITKIN?
 $35\ 51\ 21.3$ $\pm 18'$
 $92\ 58\ 47.8$

(643) HINDSVILLE / FAYETTEVILLE
 $35\ 51\ 34.8$ $\pm 22'$
 $92\ 58\ 47.7$

(644) START OF THE BOONE
 FAULT NORTH OF HERE? $35\ 52\ 30.6$ $\pm 20'$
 OR RIGHT THRU HERE $92\ 59\ 17.2$

Location Boss Hollow Date 6-3-04

Project/Client Statemap 2003-2004

(645) SS UNIT IN CREEK. MOSS?
 APPEARS TAIN BEDDED (14.3)
 AND SHALEY 35 46 14.6 ± 18'
 93 05 57.1 (57.3)

END OF STATEMAP
 2003-2004

Location Big Piney FT. DOUGLAS Date 7-21-04³³

Project/Client STATEMAP 2004-2005

Scale

(1) PITKIN DIPPING IN CREEK
 FAULT POSSIBLE 35 39 28.5
 NORTH OF POINT 93 13 21.4 ± 24'
 N80°E, 14°SE

HURRICANE CREEK 722-04

(2) APPEARS TO BE PHO DIPPING
 IN THE CREEK 35 44 23.3 ± 15'
 JOINTS: N15°W 93 10 0.5
 N45E, 8°SE

(3) FAULT PASSING NEAR OR THRU
 HERE JOINTS 35 43 39 ± 28'
 CANE HILL? 70E, 70W 93 10 36.6
 60E
 DIR 22°NW @ N65E PHO?

(4) LAST OUTCROP PLACE
 CANE HILL? PHO? 35 43 37 ± 18'
 93 10 39.7
 N40E, 12°W/NW

SMALL LEDGE 10-12' THICK
 ALLUVIUM ABOVE IT

Location HURRICANE CREEK Date 7-22-04

Project/Client STATEMAP 2004-2005

(5) FAULT RUNNING RIGHT HERE?

Phc/Phg	±21	35	43	44.9
	93	10	34.9	

FAULT RUNNING: N20W

SOUTHSIDE Phg 7: 20°W @ N/S

NORTHSIDE Phc 7: 10°N @ N75°W

JOINTS: N20E, N73E, 20°W, 50°W

(6) FAULT CUTTING THRU Phg FAULT
AND Phc or Phg NO GPS N75EPhg ENDS HERE AND SHALE ON Phc: 10°S @ N80°W (A)
THE UPPER SIDE Phg: 3°N @ N80°E(7) Phc/Phg CONTACT JUST BELOW
THE 1200' CONTOUR NO GPS
IN DRAINAGE JUST UP FROM THE DRAINAGE
COMING IN FROM THE LEFTBEAR CREEK
FT. DOUGLAS

7-26-04

(8) Phc DIPPING IN CREEK

9°N @ E/W	±20'	35	40	30.7
NICE, UNSEASONABLY	93	13	19.1	

COOL DAY

JOINTS: 85°W, 60°E, 5°W, N/S

Location BEAR CREEK Date 7-26-04

Project/Client STATEMAP 2004-2005

Scale

(9) PITKIN? APPEARS TO BE DIPPING
IN CREEK LANDSLIDE 35 40 44.2
AREA, PITKIN ON NORTH SIDE, SHALE ON THE
SOUTH 93 12 43.7
10°N @ E/W ±18°
60°W, N/S, E/W(10) CONTACT: Mp/Phc COVERED SCENE IN
CREEK. NICE Mp OUTCROP ±17' 35 48 19.2
NO DIPPING SEEN. 93 13 34.3SUGAR CREEK
FT. DOUGLAS

7-27-04

(11) Phg? DIPPING IN CREEK
ENDS NEAR 123 BRIDGE ±10' 35 40 41.0
10°W @ N70W 93 13 53.8
SW
JOINTS: N/S, E/W(12) POSSIBLE Phc/Phg CONTACT OR
FAULT RUNNING THRU HERE. 5°W @ N150E 35 40 52.5
93 13 40.2

POSSIBLE ANTICLINE

Phg SEEMS TO START DIPPING
THE OTHER DIRECTION ±21'

(13) APPROX. 7' OF SHALE SEEN IN CREEK BELOW $TPhg$. 35 40 55.8
 $TPhg$ POSSIBLY JUST UNGULATING? SLIGHT 93 13 27.5
 DIP: 70W @ N/S ±20'
 JOINTS: 45E, 65W, 85W

(14) CONTACT: $TPhc/TPhg$ - SHOULD BE THE LAST PLACE WE SEE THE $TPhc$ IN THE DRAINAGE ±22' 35 41 4.3
 93 13 21.5
 DISTORTION BANDS SEEN IN FLOAT IN CREEK

(15) MORE SHALE SEEN IN THE CREEK SHALE APPEARS TO BE DIPPING BUT FLAT SS? 35 41 6.0
 UNDERNEATH, FAULT 93 13 16.6
 JUST SOUTH OF US7 ±20'
 BLUFF ABOVE US 50WSW @ N55W
 JOINTS: 100W, 65W, E/W

(16) FAULT APPEARS TO BE RUNNING RIGHT THRU HERE. $TPhg$ 35 41 12.0
 DIPPING AND $TPhc$ as 93 13 11.2
 WELL. 150NNW @ 50°E ±20'
 FAULT TRENDING: N80°E

(17) $TPhg$ HEAVILY DIPPING IN CREEK LOTS OF DEFORMATION 35 41 15.2
 BANDS 25°NNW @ N40°E 93 13 7.7
 ±20'

(18) FAULT PASSING THRU CREEK HERE $TPhg$ APPEARS TO BE DIPPING OPPOSITE ON NORTH SIDE ±30' 35 41 18.6
 93 13 2.4
 25°ESE @ N40°E ON SOUTH SIDE. VERTICAL FAULTS SEEN - $TPhc$ JUST UP THE CREEK DIPPING 18°N @ N65°E

(19) $TPhc$? IN CREEK DIPPING OPPOSITE 90W @ E/W 35 41 19.5
 SS PACKAGE ±25'
 OR ~~100W @ N60°E~~ SHALE 93 12 57.2
 80W @ N10°W

(20) GOOD $TPhc$ DIPPING ALONG CREEK GOOD BLUFF ±20' 35 41 24.3
 50W @ N/S 93 12 48.2
 JOINTS: N/S, E/W

Location SUGAR CREEK Date 7-27-04

Project/Client STATEMAP 2004-2005

(21) FAULT CUTTING THRU HERE? 90
 FROM P_{hc} TO P_{hg} ±23 35 41 29.6
 P_{hg} APPEARS TO BE 93 12 44.7
 DIPPING TWO
 DIFFERENT WAYS.

SS IN CREEK DIPPING: 15°WNW @ N20°E
 SS BLUFF (P_{hg}) DIPPING: 5°N @ N80°W

SECONDARY FAULT PASSING THRU CREEK?
 MAIN FAULT WNW?

(22) FAULT OR SOMETHING COMING THRU
 HERE. P_{hc} IN CREEK 35 41 33.8
 w/ P_{hg} ON SIDES? ±24 93 12 42.8
 MAYBE P_{b1}?
 18°W @ N10°E

(23) MINI FAULT CUTTING THRU P_{hg}? (35)
 NICE CALCITE VENE ±23' 35 41 35.0
 SLIGHT OFFSET, MINI 93 12 40.3
 FAULTS ALL IN THIS AREA
 SOME W/ ONLY A FOOT
 OR LESS OF OFFSET 12°NW @ N60°E

(24) P_{hc} / P_{hg} CONTACT DIPPING
 15°N @ N75°W ±21' 35 41 42.1
 93 12 36.4

Location SUGAR CREEK Date 7-27-04

Project/Client STATEMAP 2004-2005

Scale

(25) MUST HAVE BEEN IN THE P_{b1}
 FOR THE LAST WHILE. 35 41 45.3
 ENTER BEDDED SHALES 93 12 36.9
 AND SS NOW JUST SAW
 A LS LAYER. SS UP ABOVE ±231
 THIS POINT. NO SS?
 HOW @ N70°E

(26) ROCKS DIPPING IN CREEK. SS
 5°WSW @ N55°W ±21' 35 41 50.6
 POSSIBLE FAULT 93 12 36.4
 SHALE ABOVE THE SS
 STARTS JUST NE OF POINT

HURRICANE CREEK 7-28-04
 FT. DOUGLAS
 V. NICE CAMPING AREA

(27) THIN BEDDED, X-BEDDED SS IN 18.1
 CREEK. LOOKS LIKE ±21' 35 42 27.7
 P_{hc} BUT NOT 93 13 36.4
 OF SAND, DIPPING? P_{hg}? 36.1

(28) P_{hg}? DIPPING BLUFF ALONG
 CREEK. THIN AND
 X-BEDDED ±19' 35 42 57.0
 N55°W; 5°SW 93 13 27.6

Location HURRICANE CREEK Date 7-28-04

Project/Client STATEMAP 2004-2005

(29) CONTACT: TP61/M655
 NATURAL BRIDGE RIGHT 35 43 08.3
 ABOVE US. LOTS OF DEFORMATION BANDS $\pm 20'$ 93 13 27.3
 SEEN. FAULT BELOW US IN CREEK OR SOUTH OF US?

(30) THIN BEDDED SS IN CREEK
 TP6c or TP6g? NEAR GREASY CREEK. $\pm 18'$ 35 43 23.6
 93 12 13.0

(31) LAST POINT SEEN OF M655
 APPEARS TO BE DIPPING BUT MAY JUST BE SLIPAGE. FIRST DRAINAGE SOUTH OF NATURAL BRIDGE ON OHT $\pm 23'$
 35 43 1.5
 93 13 36.3

BUCK BRANCH 8-02-04
 TRIB. TO HURRICANE

(32) TP6g ALONG CREEK, GOOD BLUFF V. WARM TODAY. $\pm 21'$ 35 44 36.3
 93 07 59.5

(33) TP6g IN AND ALONG CREEK. V. THICK IN SOME PLACES APPROX. 60'-80' WEST OF HERE $\pm 23'$
 35 44 34.2
 93 07 36.1

Location BOSS HOLLOW Date 8-2-04 41

Project/Client STATEMAP 2004-2005

SANOGAP QUAD

Scale

(34) CONTACT?: TP6g / BRENTWOOD?
 FOSSILIFEROUS SS ABOVE A 4'ES1 124' 35 44 42.5
 93 07 06.6
 SHALE

(35) STILL SS IN THE CREEK. V. MASSIVE IF ALL THE TP6g. NO FAULT HAS BEEN SEEN. DUE TO SOUTHERN REG. DIP? $\pm 20'$
 35 45 7.9
 93 07 6.8

ROCK CREEK 8-03-04
 FT. DOUGLAS (WEST OF)

(36) CONTACT: MP / TP6c?
 COVERED IN CREEK TODAY IS SUPPOSED TO BE THE HOTTEST DAY OF THE YEAR $\pm 28'$
 35 44 37.2
 93 16 12.1

(37) THIS IS THE CONTACT: MP / TP6c
 GOOD SHALE UNIT ABOVE MP $\pm 18'$ 35 44 42.3
 93 15 59.2

(38) ROCK DIPPING ALONG ROAD ON BIG PINEY, ROSETTA QUAD 20°SW @ N50°W $\pm 18'$
 35 43 57.7
 93 16 20.7
 FAULT JUST SOUTH OF HERE?

Location PINEY CREEK RD Date 8-03-04Project/Client STATEMAP 2004-2005

(39) CONTACT: Phc / Phg
 GOOD BLUFF ALONG SIDE RD. $\pm 20'$
 35 43 18.4
 93 15 24.7

(40) CANE HILL ALONG SIDE RD
 FAULT NORTH OF
 HERE? Phg JUST ABOVE $\pm 20'$
 35 42 34.0
 93 15 5.8

(41) CONTACT: Phc / Phg
 ALONG SIDE RD. GOOD
 BLUFF, GOOD CONTACT $\pm 21'$
 35 42 22.4
 93 15 13.7

(42) SS / SHALE PACKAGE DIPPING
 ALONG HWY 123
 NEAR DILLON $\pm 23'$
 35 42 34.0
 93 10 28.4

BRANCH OF HURRICANE 8-04-04
 FT. DOUGLAS

(43) CONTACT: Phg / Phl
 APPROX: 30' HIGHER
Phg SEEMS VERY THICK THRU HERE $\pm 24'$
 $\pm 20'$
 35 44 54.3
 93 10 38.4

Location BRANCH OF HURRICANE Date 8-04-04Project/Client STATEMAP 2004-2005

(44) CONTACT: Phc / Phg
 GOOD CONTACT IN DRAINAGE $\pm 19'$
 35 44 53.2
 93 10 27.0

(45) DRAINAGE NEAR CEM.
Phc? IN CREEK APPEARS
 DIPPING. CONTACT WITH
Phg 50' UP DRAINAGE
 FROM HERE $12^\circ E @ N25^\circ W$
 $\pm 28'$
 NOT Phg JUST SS UNIT

(46) Phc? DIPPING IN DRAINAGE
 FAULT POSSIBLY
 COMING UP THE CENTER
 OF THE DRAINAGE.
 $12^\circ NW @ N45^\circ E$
 $\pm 25'$
 JOINTS: $N40^\circ W, 80^\circ E$ FOSSILIFEROUS
 IS LAYER

(47) Phg? STEEPLY DIPPING IN THE
 DRAINAGE.
 $33^\circ NW @ N60^\circ E$
 35 44 9.2
 93 09 52.9 $\pm 23'$

(48) Phg FLATTENS OUT, FAULT APPEARS
 TO BE RUNNING JUST WEST OF HERE. ACTUALLY
 ALMOST RIGHT HERE RUNNING ALMOST
 E/W
 JOINTS: $95^\circ E, N/S$
 $81^\circ W @ N20^\circ E (1/1)$

(49) PPhg DIPPING IN DRAINAGE
 6°W @ N20°E 35 44 6.2
 93 09 45.5 ±23'

(50) APPEARS TO BE LOWER BLOYD (TP61)
 IN DRAINAGE. CONTACT 35 44 3.3 (98)
 W/ PPhg JUST WEST. 93 09 32.2 ±26'

HURRICANE CREEK 8-9-04

(51) TPhc DIPPING 12°N @ N85°E
 PIECES OF PITKIN 35 43 4.0
 SEEN IN THE CREEK 93 11 25.0 ±40'

JOINTS: N55°E, 75°W

(52) TPhc DIPPING 33°N @ N40°E (11.7)
 PITKIN NOT SEEN 35 43 1.4 ±40'
 IN THIS DRAINAGE 93 11 24.5

(53) PPhc DIPPING 31°W @ N20°E
 DEFORMATION BANDS 35 42 50.0 ±31'
 SEEN IN SS 93 11 20.0

JOINTS = 30°W

(54) POSSIBLE SLIDE JUST UP
 THE HILL FROM THE LAST POINT
 32°SE @ N25°E 35 42 56.5
 TRUE DIP? 93 11 19.7 ±28'

(55) PPhc CHANGED DIP DIRECTION
 AGAIN. 19°W @ N30°E 35 42 51.4
 JOINTS: N/S, 35°E, 10°W 93 11 15.9
 ±22'

(56) IS IN CREEK DIPPING, TPhc?
 11°NW @ N70°E 35 43 8.1 ±24'
 JOINTS: 10°E, 10°W 93 11 18.1
 80°E

(57) PITKIN DIPPING IN THE CREEK
 11°W @ N5°E SEEMS FAIRLY
 CONTINUOUS TO THE
 JOINTS: N35°E, 55°E, 15°W CREEK
 70°W

35 43 7.6 ±24'
 93 11 15.1

46

Location HURRICANE CREEK Date 8-09-04

Project/Client STATEMAP 2004-2005

(58) FAULT CUTTING THRU HERE?
 LOOKS LIKE WHERE 35 43 9.6
 THE NP STARTS 93 11 9.4 ±23'

HURRICANE CREEK

8-10-04

(59) PITKIN ON THE HILLSIDE ON
 THE OHT 35 43 16.4 ±20'
 SEEN FURTHER 93 10 55.2
 BACK TOO

(60) CONTACT: NP / Phc 35 43 2.1
 COULD BE SLIGHTLY ±20 93 10 46.7
 LOWER IN DRAINAGE

(61) GOOD Phc BLUFF IN DRAINAGE
 30-40' HIGH 35 42 48.7
 CAN'T GET AROUND 93 10 28.2 ±26'

(62) CONTACT: Phc / Php? 45.2 ±22'
 COVERED CONTACT 35 42 45.7 ±25'
 IN DRAINAGE 93 10 24.5

Location HURRICANE CREEK Date 8-10-04⁴⁷

Project/Client STATEMAP 2004-2005

Scale

(63) CONTACT: Php / Ph1
 COVERED CONTACT 35 42 40.4
 IN DRAINAGE 93 10 16.6 ±28'

(64) STILL IN THE LOWER BLOCK
 GETTING TOO DARK
 TO GO ON. MOSS NO GPS
 SHOULD BE FAIRLY CLOSE

BIG PINCH

8-12-04

(65) Phc? DIPPING IN DRAINAGE
 RAINED ALL DAY ±20' 35 40 16.6
 YESTERDAY 93 14 13.9
 130N @ N70E

(66) ROCKS ON THE NORTH SIDE OF THE
 DRAINAGE (Php?) APPEAR
 TO BE FLAT OR ALMOST 35 40 16.8
 FLAT. FAULT RUNNING 93 14 15.0
 UP THE DRAINAGE! ±19'

(67) Php APPEARS TO BE DIPPING
 210N @ N65W 35 40 13.9
 93 14 18.3 ±22'

Location RIG PINEY Date 8-12-04Project/Client STATEMAP 2004-2005

(68) LAST POINT MADE TO IN THE
DRAINAGE. TPh 35 40 9.1
APPEARS JUST RIGHT 93 14 83.1 ±33'
ABOVE ≈ 20'

(69) NEAR THE TOP OF THE TPh
JUST ON THE NORTH 35 40 8.3
SIDE? HAVEN'T REALLY 93 14 25.2
SEEN IT ON THE SOUTH ±27'
JUST BLOCKS.

HURRICANE DRAINAGE 8-23-04

(70) CANE HILL DIPPING
N40°E, 29° WNW
MAYBE TPh TO NO GPS
THE NORTH

(71) GOOD PITKIN OUTCROP
FAULT TO THE N, MAYBE 35 43 38.1
@ CONTACT W/ TPh 93 10 20.4
ABOVE ±24'
JOINTS: N15°W, N80°E

(72) JUST ABOVE LAST POINT ±23'
CONTACT: PITKIN / Phc
SHALES IN CREEK 35 43 36.5
93 10 19.6

Location HURRICANE CREEK Date 8-23-04Project/Client STATEMAP 2004-2005

Scale

(73) MADE IT UP TO HERE
TPh JUST ABOVE 35 43 30.0
HERE? TO HARD 93 10 14.4
TO GO FARTHER ±21'

MIRKWOOD DRAINAGE

(74) CANE HILL SHALE DIPPING
N40°W, 40°E 35 42 58.2
93 11 36.5 ±23'

(75) CONTACT: TPhc / TPh
GOOD CONTACT 35 42 56.2
NICE EGL (PEBBLE) 93 11 36.7 ±24'

(76) CANE HILL SS
JOINTS: 35°W 85°E 35 43 2.5
10°W 80°W 93 11 36.8
60°E ±28

SPRING CREEK 8-24-04

(77) LOOKS LIKE TPhc SHALE
SMALL BLUFF ABOVE 35 38 31.2
CONTACT ABOVE? 93 10 54.9 ±24'

Location SPRING CREEK Date 8-24-04Project/Client STATEMAP 2004-2005

(78) THIN → MED BEDDED SS
ALL THE WAY UP 35 38 22.3
THE CREEK 93 11 0.1

(79) THIN BEDDED SS DIPPING ON E
SIDE OF CREEK - ON W SIDE
N 45°W SHALE W/SANDY
14°ENE ZONE @ BASE
35 38 34.2 ±24' N 40°W
93 10 51.2 9°ENE
JOINT - N 80°W

(80) RIPPLE BEDS, THIN → MED BEDDED
SS IN CREEK DIPPING 35 37 39.7
SLIGHTLY TO NE ±25' 93 10 41.2

MAUPIN ROAD

(81) SS DIPPING ALONG ROAD
N 80°E 35 37 1.4 ±20'
13°ENE 93 9 39.9

NOT ON FT. DOUGLAS
ON N OF TREAT QUAD

Location FALLING WATER CREEK Date 8-25-04⁵¹Project/Client STATEMAP 2004-2005

WALKING DOWNSTREAM FROM FALLS Scale

(82) CONTACT: WITTS SPRINGS / MBSS?
BLACK SHALE AGAINST 35 43 23.9
1' BEDDED SS ±23' 92 56 56.3
GOOD CONTACT

(83) POSSIBLE FAULT PASSING THRU
HERE, HARD TO SEE 35 43 35.9
WITH SO MUCH 30' 92 56 32.2
COVERAGE, BLUFF
ON EAST SIDE LOOKS HIGHER HERE?

(84) CONTACT: WITTS SPRINGS / MBSS
GOOD CONTACT, APPEARS 35 43 39.4
LOWER HERE ±28' 92 56 32.9

(85) GOOD SS ON WEST SIDE OF THE
CREEK, INTER-BEDDED 35 43 41.3
LAYER OF SHALE APPROX 15'
THICK IN THE MIDDLE 92 56 33.4 ±20'
FAULT APPEARS TO BE
RUNNING THRU HERE GOING NNE

(86) BELOW RD INTERBEDDED SHALE
SS ABOVE ON RD 35 43 47.8
SIDE 92 56 22.7 ±20'

Location FALLING WATER CREEK Date 8-25-04Project/Client STATEMAP 2004-2005

(87) CANE HILL DIPPING IN CREEK

N40°W,	35 44 218
2-3°E	92 56 115 ±22'

(88) VERY NICE PPhc? WATERFALL

REMINDS ME OF
TWIN FALLS ON ±30' 35 43 43.5
RICHLAND CREEK 92 55 44.7
HAVENT SEEN ANYTHING THAT LOOKS
LIKE A GOOD FAULT YET, SLIGHT DIP

(89) PPhc APPEARS TO BE DIPPING, HARD
TO TELL @ THIS

OUTCROP,	±29' 35 44 0.3
N50°E, 9°NW	92 55 56.7

NORTH FORK ILLINOIS
SANDGAP

8-26-04

(90) PPhc? DIPPING SLIGHTLY IN CREEK

N85E, GOOD OUTCROP	35 38 59.5
4-5°N	±19' 93 00 10.5

JOINTS: 50°E, 5°W

(91) PPhc? APPEARS FLAT HERE

@ THE SWIMMING
HOLE NICE BLUE/
GREEN WATER ±23' 35 39 6.9
93 00 21.2

Location N FORK ILLINOIS BAYOU Date 8-26-04Project/Client STATEMAP 2004-2005SANDGAP

Scale

(92) PPhc APPEARS LEVEL IN JAROUND
THE CREEK GOOD 35 39 44.6
OUTCROP NICE ±25' 93 00 35.8
RIPPLE MARKS

JOINTS: N/S, N80W, N30W,
MAYBE A SLIGHT DIP

(93) GOOD SS BLUFF ON W SIDE OF
CREEK, COULD BE

THE PPhc	±23' 35 39 45.4 45.5
	93 00 49.6 49.1

DRAINAGE OFF OF
HURRICANE CREEK8-30-04
FT. DOUGLAS

(94) CONTACT: PPhc / PPhc? GOOD SS

BLUFF - MED TO	35 42 31.7 ±29'
THICK BEDDED	93 14 16.8

(95) LANDSLIDE ON ^{NORTH} SIDE OF THE DRAINAGE
TOP OF PPhc SHOULD 35 42 41.8
BE RIGHT IN HERE 93 14 16.3 ±22'

(96) APPEARS TO BE SOME LS IN
THE CREEK, LOOKS LIKE

WERE BACK IN THE	35 42 51.0
PPhc. FAULT MUST	93 14 16.8
BE IN HERE SOMEWHERE.	±22'

DONT KNOW WHERE LS

COULD BE COMING FROM

Location N. FORK ILLINOIS BAYOU Date 9-7-04

Project/Client STATEMAP 2004-2005

SAND GAP QUAD

(97) SHALE IN CREEK LOOKS LIKE
 TP_{HC}, GOOD SS BLUFF 36.6
 ALONG CREEK ±25' 35 40 38.8
 JOINTS: 10°W, 25°W ±22' 93 00 49.3
 55°E 51.0

(98) GOOD SS BLUFF RIGHT ABOVE
 SHALE IN THE CREEK.
 WINDY TODAY BUT A 35 40 32.0 ±27'
 GOOD TEMP. 93 01 41.1

(99) CONTACT: TP_{HC} / TP_{Hg}?
 GOOD SS BLUFF 35 40 54.5
 BESIDE CREEK @ ±21' 93.00 47.2
 4-WHEELER X-ING

(100) LOOKS LIKE TP_{Hg} IN THE CREEK
 MAYBE DIPPING.
 FINE GRAINED ±21' 35 41 6.0
 93 00 35.3



Location MIDDLE FORK ILLINOIS Date 9-8-04

Project/Client STATEMAP 2004-2005

SMYRNA QUAD

Scale

(101) TP_{HC} IN CREEK APPEARS TO
 BE SLIGHTLY DIPPING ±24' 35 41 22.0
 COULD BE X-BEDDING 92 54 26.6
 ROPE SWING HERE

(102) CANE HILL? IN CREEK, APPEARED
 DIPPING JUST SOUTH 35 41 38.1
 OF HERE, VERY NICE ±27' 92 53 56.5
 DAY TODAY, ROCK IS FOSSILEFEROUS

(103) POSSIBLE CONTACT: TP_{HC} / TP_{HS}?
 GOOD SS BLUFF ABOVE 35 42 0.6
 SHALE IN THE CREEK ±23' 92 53 50.1

(104) SS LOOKS A LITTLE DIFFERENT
 HERE. X-BEDDED @ THE 35 42 16.0
 BOTTOM & NOT AS ±28' 92 53 49.1
 THICK BEDDED. GOOD
 SWIMMING HOLE HERE W/ A SLIDE
 SOMEONE DRUG IN

(105) CALCAREOUS SS IN THE CREEK
 EVEN A LITTLE MICRO 35 42 17.3
 KARST ARE WE BACK ±20' 92 53 36.8
 IN THE TP_{HC} OR OLD 17'
 WE NEVER LEAVE IT?
 JOINTS: 50°E, 50°W, 75°W PNW

W W W FOUND AN IMPRESSION
 W W W OF A TREE LIKE
 W W THIS TO BIG TO TAKE

SMYRNA QUAD

(106) SANDY SHALE IN CREEK W/ GOOD SHALE 4-6-7' THICK 120' 35 42 26.9 ON THE BANK GOOD 92 53 22.2 RIPPLE BEDS APPEARS TO BE SLIGHTLY DIPPING TO THE NORTH

(107) SS DIPPING IN CREEK. LAST SHALE PACKAGE WAS DIP: N80E, 21°N THIN. OLD YELLOW 35 42 32.8 CAR OVERTURNED 92 53 19.8 IN THE CREEK, SEVERAL PEOPLE HAVE CARVED THEIR NAMES INTO IT.

(108) STILL LOOKS LIKE PHC DIPPING IN THE CREEK, FAULT SHOULD BE NEAR HERE 35 42 36.2 N200E, 90N 115' 92 53 12.6
11:30AM
JOINTS: 25°E, 75°E, 85°E, 55°W

(109) LAST OF THE OUTCROP SEEN. NOT DIPPING AS MUCH 35 42 36.3 36.3 HERE LOOKS LIKE 92 53 10.2 ±22' E/W, 90N

(110) ROCK APPEARS TO BE DIPPING TO THE ~~WEST~~ PHC? 500ft 122' 35 41 39.3 N25°E 45° SE 92 54 6.6
FAULT JUST BELOW HERE?

SMYRNA

Scale

(111) PHC DIPPING IN CREEK N70°W, 61°NW? 35 41 17.6 ±23' 92 54 36.8

HURRICANE CREEK 9-9-04

(112) PHC? IN CREEK BELOW MURKWOOD DIPPING. I JUST KILLED 35 43 10.8 A GOOD SIZE COTTON- 93 11 34.0 ±25' MOUTH ON THE OTHER SIDE OF THE CREEK N80E, 70S

(113) PHC DIPPING OPPOSITE DIRECTION JUST UP DRAINAGE 35 43 12.9 14.3V ON THE NORTH 93 11 38.2 ±18' SIDE OF THE CREEK. 38.6V N70°E, 31°NW (EAST/WEST FAULT?)

(114) PHC? JOINTED & VERY SANDY THRU HERE. COULD BE 35 44 2.7 ±22' THE PHC BUT DOESN'T 93 11 38.5 REALLY LOOK LIKE IT JOINTS: 10°W, 15°E, 80°E

THIS COULD BE THE SAME SAND WE SAW SOUTH OF HERE SO THERE MIGHT BE A FAULT SOUTH OF HERE

Location GREASY CREEK Date 9-9-04

Project/Client STATEMAP 2004-2005

~~SANDGAP~~ FT. DOUGLAS

(115) $TPhc$ DIPPING STEEPLY ALONG
SIDE CREEK, FAULT 35 44 12.7 $\pm 21'$
OR JUST A SLIDE? 93 11 41.1
N55°E, 30°SE
(N75°E?)

(116) $TPhc$ DIPPING BESIDE CREEK
RECENT LANDSLIDE 35 44 15.4
IN THIS AREA 93 11 41.8 $\pm 19'$
N45°W, 8°SW

LIMONITE CONCRETIONS

(117) CONTACT: $TPhc / TPhg$ FOSSILEIFEROUS
SS w/ PEBBLE 35 44 24.9
CNGL @ THE BASE 93 12 16.3 $\pm 23'$
GOOD CONTACT

(118) CONTACT: $TPhc / TPhg$ MIGHT BE
SLIGHTLY HIGHER BUT 35 43 27.0 $\pm 24'$
WERE PRETTY CLOSE 93 11 44.5
ON OHT

(119) SS BLUFF JUST ABOVE OHT
COULD BE Pbm , WE 35 43 19.3
JUST WENT OVER SOME 93 11 31.4 $\pm 27'$
SS A LITTLE WAYS BACK
THOUGH

Location HURRICANE CREEK Date 9-9-04

Project/Client STATEMAP 2004-2005

~~SANDGAP~~ FT. DOUGLAS

Scale

(120) ROCK ON NORTH SIDE OF THE
CREEK APPEARS 35 44 55.0 $\pm 22'$
TO BE DIPPING TO 93 09 21.0
THE NW. MAYBE A
FAULT RIGHT THRU HERE
LOOKS LIKE $TPhc / TPhg$ CONTACT
BUT MIGHT JUST BE A SS IN
THE $TPhc$. DON'T KNOW FOR SURE
IF ITS IN PLACE OR JUST SLID
DOWN. N75°E, 7-10°NW

JOINTS: 15°E

(121) $TPhg$ DIPPING IN DRAINAGE
SAW SOME DEFORM. 35 44 55.7 $\pm 24'$
BANDS. 93 09 17.5
N15°W, 10°E

BAILEY COLE CREEK 9-10-04
SMYRNA

(122) $TPhc$ IN DRAINAGE APPEARS TO
BE SLIGHTLY DIPPING 35 44 24.0
KIND OF CHILLY THIS MORNING. 93 55 32.0
N10°E, 5°NW $\pm 24'$

(ROCK IS SLIGHTLY CALCAREOUS)

SILTY SHALE - SILTSTONE

(123) SHALEY ROCK / SOME SANDSTONE
DIPPING. 35 44 30.3 $\pm 27'$
N70°E, 8°S 93 55 22.1
JOINTS: N50°E

Location BAILEY COLE CREEK Date 9-10-04

Project/Client STATEMAP 2004-2005

SMYRNA

(124) $TPhc?$ DIPPING IN DRAINAGE
 N75°E, 11°S TW 35 44 29.1
 92 55 7.6 ±26'

JOINTS: N10°E
 N60°W? N60°E, EW, N/S

(125) NICE WATERFALL IN THE $TPhc?$ BLOCKING
 THE WAY. THE ROCKS 35 44 31.0
 HAVE LEVELLED OUT 92 54 55.3 ±24'
 SO MAYBE THE FAULT IS BEHIND US, V. NEAT AREA
 WE MIGHT BE IN THE TPWS

(126) APPEARS TO BE A FAULT CUTTING
 RIGHT THRU HERE. 35 44 22.8 ±23.6
 ROCK ON WEST SIDE 92 55 56.8 ±20'
 DIPPING, N70°E, 26°SE 56.1
 FAULT TRENDS: N80°E

NORTH FORK ILLINOIS 9-13-04
 SANDGAP

(127) APPEARS TO BE $TPhc$ IN
 THE CREEK 35 37 35.9 ±25'
 93 00 33.7

(128) GOOD SS BLUFF. ALMOST LOOKS
 LIKE $TPhc$. FINE 35 38 1.4 ±27'
 GRAIN/MASSIVE BEDDING 93 00 38.5
 X-BEDED

Location TRIB TO N FORK ILLINOIS Date 9-13-04 61

Project/Client STATEMAP 2004-2005

BROCK CEM

Scale

(129) SS IN CREEK & GOOD BLUFF
 ALONG SIDE OF THE 35 38 28.3 ±26'
 CREEK. PROBABLY THE 93006.5
 SHINE AS THE LAST POINT

(130) CONTACT? $TPhc$ / $TPho$
 SS ABOVE SHALE 35 38 53.2 ±20'
 ON THE SIDE OF 93 00 6.6
 THE ROAD

(131) SS DIPPING ALONG ROAD
 N10°E, 7°E 35 38 48.8 ±21'
 92 59 53.3

MIDDLE FORK ILLINOIS 9-14-04
 SMYRNA

(132) SS IN CREEK APPEARS TO BE
 DIPPING AND MAYBE 35 38 59.1 ±25'
 ENDS HERE 92 55 10.2 ±25'

JOINTS: N55E, 15°W

(133) X-BEDED SS BESIDE CREEK NICE
 LITTLE SWIMMING 35 38 35.0 ±14'
 HOGE. NOT CALCAREOUS 92 55 15.1

Location MIDDLE FORK ILLINOIS Date 9-14-04

Project/Client STATEMAP 2004-2005

SMYRNA

(134) SS LOOKS LIKE THE OTHERS
SEEN BUT IT IS 35 38 9.1
FOSSILEFEROUS HERE 92 55 19.3 ±23'
APPEARS SLIGHTLY
DIPPING TO THE SOUTH, X-BEDDED

(135) LAST POINT MADE IT NICE
HUNTING CABIN JUST 35 37 49.5
TO THE NORTH ON 92 55 35.3 ±17'
SOME NICE LAND

(136) ROCK IN THE CREEK @ THE
CABIN, LOOKS LIKE 35 38 2.6
SS FROM BEFORE 92 55 20.0 ±17'
Phe?

(137) X-BEDDED, SILTY / SHALEY SS
JOINTS: 5°W 35 39 17.6
45°E 92 55 12.8 ±17'
Phe?

(138) LOOKS LIKE THE Phe DIPPING
ALONG THE RD TO 35 39 50.4 ±17'
THE SMYRNA CHURCH 92 54 26.0 ±17'
SHALE BELOW W/
FAIRLY GOOD SS BODY ABOVE

N70°E, 40°NNW

Location MIDDLE FORK ILLINOIS Date 9-14-04 63

Project/Client STATEMAP 2004-2005

NEAR SMYRNA CHURCH

Scale

(139) GOOD SHALE BLUFF APPEARS
TO BE Phe 35 39 50.0 ±20'
DIPMENT LOOKS LIKE 92 54 35.1
ITS DIPPING CALCAREOUS

(140) ROCK IN CREEK DIPPING
SLIGHTLY, LOOKS LIKE 35 40 13.4 ±16'
Phe. FOSSILEFEROUS 92 54 27.2
COAL LAYER NEAR
THE CREEK. N80E, 40°

{ WE'VE SEEN 2 COPPERHEADS }
{ JUST RIGHT HERE 3 2 BLACK }
{ SNAKES EARLIER }
JOINTS: N5°W

(141) ROCK IN CREEK IS DIPPING
POSSIBLY Phe 35 39 7.0 ±22'
N15°W, 40°W 92 55 24.3
*RASPBERRY CREEK

(142) ROCK IN CREEK BELOW
CABIN APPEAR 35 42 53.2 ±17'
FLAT. Phe? 92 52 58.3
CABIN BUILT ON THE 50.6 ±14'
LITTLE BLUFF. NOT A BAD PLACE

Location MIDDLE FORK ILLINOIS Date 9-14-04

Project/Client STATEMAP 2004-2005

SOUTH OF BLUE HOLE LODGE

(143) ROCKS APPEAR FLAT IN
CREEK. LOOKS LIKE TPhc
35 42 44.7 ± 28'
92 53 01.7

SULPHUR CREEK
SAND GAP

9-15-04

(144) SS BESIDE CREEK LOOKS LIKE
THE TPhg. MAYBE JUST A ZONE IN
THE TPhc. CLOUDY & COOLER TODAY
35 40 8.2 ± 23'
93 01 37.0 JOINTS: S5W, S0E

(145) GOOD SHALE ALONG THE BANK
NOW, MAYBE A FAULT NEAR HERE,
JUST EAST?

N25W, 40E

(146) GOOD SHALE IN CREEK w/ INTER-
BEDDED SS PACKAGES MAYBE A SLIGHT DIP TO
THE EAST. TPhc?
35 40 3.2 ± 21'
93 01 58.7

(147) GOOD SS IN CREEK LOOKS LIKE
THE TPhg.

JOINTS: N25W ± 17'
N/S, N85E 93 02 6.3
SLIGHTLY CALCAREOUS

Location SULLY CREEK Date 9-15-04

Project/Client STATEMAP 2004-2005

SAND GAP QUAD

Scale

(148) GOOD SS BLUFF 30-40' ABOVE
THIS POINT. THIS MUST BE THE TPhg
35 40 3.2 ± 23'
93 02 14.0 GOOD CONTACT

(149) CONTACT: TPhc/TPhg?
CONTACT IS 1' ABOVE CREEK. GOOD
SS IS 20' THICK THEN MORE SHALE
35 40 19.2 ± 27'
93 02 22.5 JOINTS: N15W

(150) TPhg APPEARS TO JUST START
RIGHT HERE BUT NO OBVIOUS SIGNS
OF A FAULT. GOOD BLUFF
35 39 51.8 ± 35'
93 01 36.9 JOINTS: N15W

(151) BACK INTO SHALE BUT HAVEN'T
SEEN ANYTHING THAT JUST REALLY
LOOKS LIKE A FAULT. ROCKS MAY BE
DIPPING SOME NORTH TOP OF TPhg
JUST DOWN FROM THIS POINT (EAST)
35 39 48.9 ± 28'
93 01 57.1

(152) SHALEY/SS FORMING WATERFALL
IN DRAINAGE, NO FRACTURING SEEN
35 39 45.4 ± 23'
93 01 32.5

Location SULPHUR CREEK Date 9-15-04
 Project/Client STATEMAP 2004-2005

(153) CONTACT: TPhc / TPhg
 CONTACT SLIGHTLY HIGHER, MAYBE 10'
 35 39 51.8 ± 20'
 93 01 25.1

DRAINAGE NEAR NORTH FORK ILLINOIS BAYOU 9-16-04

(154) CONTACT: TPhc / TPhg
 COVERED SLOPE IN DRAINAGE
 35 40 23.0 ± 24'
 93 01 7.4

(155) TOA OF THE TPhg IS HERE OR SLIGHTLY BELOW US. COVERED IN DRAINAGE
 35 40 23.7 ± 21'
 93 01 0.0

(156) ROCKS DIPPING SLIGHTLY @ THE "Y" OF TWO DRAINAGES
 N 70° E, 5° S
 JOINTS: N 85° W, N 20° W
 35 40 22.6 ± 23'
 93 00 50.2

(157) CONTACT: TPhc / TPhg ? GOOD CONTACT W/ SHALE ON SS. NEAR DRAINAGE
 35 40 31.7 ± 23'
 93 01 19.0

Location NORTH ILLINOIS BAYOU Date 9-16-04
 Project/Client STATEMAP 2004-2005

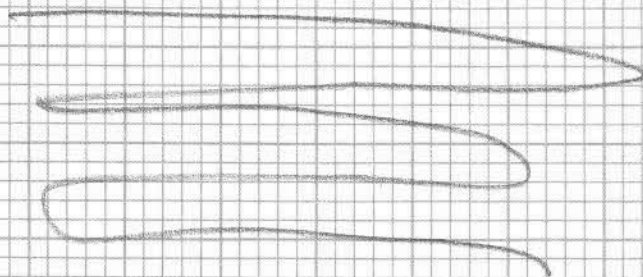
Scale

(158) CONTACT WITH TPhg AND LOWER BAYOU COVERED SLOPE
 35 40 33.4 ± 23'
 93 01 29.8

(159) ROCKS DIPPING GOOD TO THE SOUTH HERE. X-BEDDED SS APPEARS LOWER ON THE SOUTH SIDE THAN ON THE NORTH
 35 40 35.1 ± 22'
 93 01 29.5
 N 50° W, 15° SW

(160) APPEARS TO BE THE CONTACT WITH TPol / TPlm X-BEDDED SS FORMS A LITTLE GULLY
 35 40 49.0 ± 22'
 93 01 44.5
 44.2

(161) GOOD CANE HILL IN THE CREEK JOINED!
 N 15°, N 85° W
 35 40 28.6 ± 22'
 93 01 47.2
 18.4



Location NORTH FORK ILLINOIS Date 9-20-04

Project/Client STATEMAP 2004-2005

SANDGAP

(162) PRAIRIE GROVE @ THE START
OF THE DRAINAGE ~~35 41~~
NEAR THE CREEK ~~93 01~~ NO
CONTACT MAY BE ~~93 01~~ GPS
SLIGHTLY LOWER

(163) WE MUST HAVE PASSED A FAULT
R/C IT LOOKS LIKE 35 41 25.1
WERE @ THE TOP OF THE THP AGAIN 93 01 29.6 ±23'

(164) LOOKS LIKE A FAULT MAY BE
RUNNING RIGHT THRU 35 41 27.0
HERE. BACK INTO 93 01 32.3 ±23'
THP? N20°W, 16°E

JOINTS: N10°W

(165) LOOKS LIKE WE MIGHT BE IN
THE LOWER BLOYD 35 41 41.5 ±21'
APPEARS TO BE DIPPING 93 01 45.8
TO THE ENE?

(166) TOP OF A SHALE UNIT. INTER BEDDED
SS ABOVE. MAY BE 35 41 29.0
THE LOWER BLOYD 93 01 34.8 ±21'

Location NORTH FORK ILLINOIS Date 9-20-04⁶⁹

Project/Client STATEMAP 2004-2005

SANDGAP

Scale

(167) ROCK DIAPHRAGM IN DRAINAGE
LOOKS LIKE THE 35 41 19.1 ±18'
POL. 93 01 23.0
E/W, 17°N

(168) APPEARS TO BE THE TOP OF
THE THP, COVERED ~~35 41 21~~
SLOPE IN DRAINAGE 93 01 10.1 ±28'
GOOD SHALE ABOVE 35 41 1.4 ±27'
93 01 0.5

(169) BOTTOM OF THE THP @
THE ROAD @ 35 40 55.4 ±14'
CREEK & DRAINAGE 93 00 46.9
SAME AS (162)

PAYNE HOLLOW 9-21-04
SANDGAP

(170) APPEARS TO BE THP IN TAIL
CREEK. A LITTLE 35 38 26.5 ±
ONLY THIS MORNING 93 00 22.9 - 23'

(171) CONTACT: PBL / PBLm
X-BEDDED SS, V 35 38 52.2 ±23'
LAYERED THROUGH 93 00 55.0
LOOKS DIFFERENT

(172) GOOD SHALE / SS CONTACT 43.8
 TOP OF THE P_{hp} 35 38 43.5 $\pm 19'$
 MAYBE 93 00 41.3

(173) POSSIBLE CONTACT: P_{hc} / P_{hp}
 SHALE BELOW LOOKS 35 38 37.7
 LIKE ITS DIPPING 93 00 36.1 $\pm 20'$
 SLIGHTLY

(174) P_{hc}? DIPPING IN THE CREEK
 N10°E, 50W 35 38 28.9
 MAYBE P_{hl} 93 00 38.9 $\pm 21'$
 CONTACT BELOW?

(175) THIS MIGHT BE THE REAL
 P_{hc} / P_{hg} CONTACT 35 38 32.0 $\pm 19'$
 BLUFF AT 30-40' 93 00 42.8
 THICK
 JOINTS: 80°W, 25°E

(176) CONTACT: P_{hp} / P_{bl}
 FIRST GOOD SHALE
 ABOVE THE SS 35 38 30.1 $\pm 21'$
 93 01 09.8

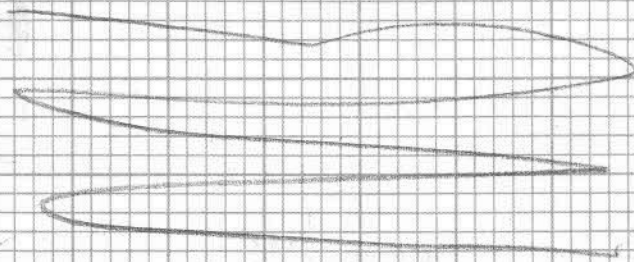
(177) LOOKS LIKE A SMALL FAULT
 CUTTING THRU THE SS 38 44.3
 SS HERE. IT ALMOST 93 01 25.7
 LOOKS LIKE THE $\pm 19'$
 P_{hp} AGAIN? FAULT

IS TRENDED NOSE, W/LITTLE
 DISPLACEMENT

I JUST KILLED ANOTHER
 COTTOUMOUTH A LITTLE WAY'S
 BACK IN THE CREEK
 N55°W, 15°N ON N SIDE

(178) CONTACT: P_{bl} / P_{blm}
 GOOD SS BLUFF 35 38 28.9
 APPROX 30-40' 93 01 26.0 $\pm 24'$

(179) CONTACT: P_{blm} / P_{blu}
 CONTACT MAY BE 35 38 31.3 $\pm 22'$
 SLIGHTLY HIGHER 93 01 36.6



Location NORTH FORK ILLINOIS Date 9-21-04Project/Client STATEMAP 2004-2005SANDBAR

(180) PRAIRIE GROVE IN THE DRAINAGE
 COULD BE THE LOWER CONTACT
 35 41 1.3 ± 17'
 93 00 27.8

(181) CONTACT: TPh / TPd
 GOOD SHALE, ROCKS
 HAVE LOOKED LIKE THEY
 HAVE BEEN DIPPING UP
 THE DRAINAGE
 35 41 0.4 ± 20'
 93 00 9.2

PACK HOLLOW
 SMYRNA

9-22-04

TPWS

(182) LOOKS LIKE PRAIRIE GROVE
 DIPPING IN THE DRAINAGE
 35 40 0.8 ± 22'
 92 54 18.6
 N56°E, 9°NW
 18.7

(183) POSSIBLE Phc DIPPING IN DRAINAGE
 N10°W, 11°SW
 35 40 0.7 ± 13'
 92 54 14.8
 (I THINK N56°E, 11°NW)
 JOINT: 15°W

(184) NICE SHALE W/ SS ABOVE MAKING A
 GOOD LEGGE AND A SMALL WATER FALL
 35 39 32.3 ± 19'
 92 53 17.0
 JUST SAW A COPPER HEAD
 WITH HALF HIS HEAD MISSING & STILL
 ALIVE. (VERY SCENIC AREA)

Location PACK HOLLOWDate 9-22-04⁷³Project/Client STATEMAP 2004-2005SMYRNA

Scale

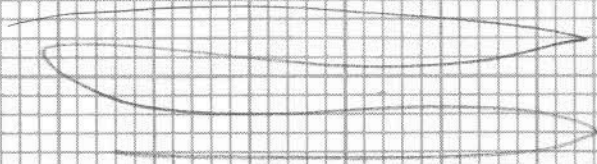
(185) CONTACT: TPhc / TPWS
 CONTACT DIPPING
 35 39 52.6 ± 28'
 92 54 10.0
 N5°E, 10°W
 JOINT: N/S, N70°E

(186) SMYRNA CHURCH HOLLOW
 ROCKS NOT DIPPING @ THIS POINT
 ANYMORE, BEFORE THIS THEY WERE
 DIPPING TO THE NW.
 TPWS MAKES A GREAT
 WATERSHED IN THE DRAINAGE,
 DID STARTS ABOUT HERE AND
 CONTINUES TO THE ROAD
 35 39 37.2 ± 24'
 92 54 16.3

(187) TPWS APPEARS FLAT HERE W/
 MAYBE A SLIGHT DIP TOWARDS
 THE WEST
 35 39 32.8 ± 24'
 92 54 13.8
 JOINTS: 75°E, 5°W
 E/W

TOO STEEP TO GET PAST

(188) ROCK DIPPING IN DRAINAGE
 35 39 41.1 ± 25'
 92 54 19.5
 N55°E, 7°NW
 N55°E, 6°NNW



Location DAVE MILLSAP HOLLOW Date 9-23-04

Project/Client STATEMAP 2004-2005

SMYRNA

(189) SHALE IN DRAINAGE DIPPING
SLIGHTLY. PWS? 35 40 31.7 ±23'
N35°W, 60°SE? (SW) 92 53 52.2
JOINTS: N70°E, 5°W

(190) LOOKS LIKE WERE STILL IN
THE PWS. STILL 35 40 37.0
DIPPING TO THE SW 92 53 23.3 ±22'
SLIGHTLY

(191) SANDY SHALE DIPPING IN DRAINAGE
N75°W, 20°SW 35 40 36.0 ±30'
JOINTS: 100°W, 60°E 92 53 35.6

(192) CONTACT: PPhc / PWS.
GOOD SS WITH 35 40 26.7 ±20'
SHALE BELOW 92 54 5.5
NOT DIPPING

(193) PPhc SLIGHTLY DIPPING IN
DRAINAGE. LOOKS JUST 35 40 25.8 ±16'
LOCALLY THOUGH 92 54 12.9
N15°W, 10°SW

Location NEAR BOYD CEMETARY Date 9-27-04⁷⁵

Project/Client STATEMAP 2004-2005

SMYRNA SANDGAP

Scale

(194) ROCKS DIPPING IN THE DRAIN.
LOOKS LIKE ITS 35 42 32.8 ±20'
THE PPhc 93 00 0.0
N60°E, 23°SE

(195) BIG BLUFF BLOCKING THE WAY
LOOKS LIKE PWS 35 42 51.8
30' SS w/MORE 93 00 48.8 ±27'
SHALE CLOSE TO THE
TOP, PROB. THE IPBL

(196) POSSIBLE CONTACT BIT THE
PPhc & IPBL 35 42 45.0 45.3
GOOD SS THEN SHALE 93 00 51.7 ±24'

(197) STILL LOOKS LIKE PPhc DIPPING
IN THE DRAINAGE 35 42 31.6 31.8
N75°W, 13°S 93 01 1.0 ±22'
DEFORMATION BANDS SEEN 1.4

BROGDEN HOLLOW 9-28-04
SMYRNA

(198) INTER BEDDED SS AND SHALE
LOOKS LIKE THE PWS 35 41 24.0
SLIGHTLY CALCAREOUS 92 53 41.0 ±20'
APPROX. 20' BLUFF

JOINTS: 55°E, 25°W

Location BROODEN HOLLOW Date 9-28-04Project/Client STATEMAP 2004-2005

(199) TPWS? DIPPING IN DRAINAGE
 N20°W, 5°WSW 35 41 14.1
 ROCKS DIPPING 92 53 11.7 ±35'
 DOWN DRAINAGE
 V. HARD TIME GETTING POINT

REEVES BRANCH

(200) GOOD SS IN DRAINAGE, MAY BE
 THE BOTTOM OF 35 41 42.0
 THE TPWS. 92 54 47.2 ±23'
 JOINTS 45°E, 35°W

(201) POSSIBLE FAULT RUNNING THRU 41.4
 HERE AND ANOTHER 35 42 ~~40.9~~
 JUST UP THE DRAINAGE 92 54 36.2 ±25'
 SHALE V. BOWED 36.2 ±18'
 IN BETWEEN THE TWO

(202) MAYBE THE OTHER FAULT GOING
 THRU? SHALE HEAVILY 35 42 42.5
 DIPPING OPPOSITE 92 54 35.5 ±20
 DIRECTIONS,
 N10°E, 27°E REEVES BRANCH
 N10°W, 17°SW

(203) SMALL FAULT ZONE PASSING THRU
 HERE. DONT KNOW HOW 35 42 47.0 ±20
 EXTENSIVE. ROCK DIPPING 92 54 36.2
 N75°E, 32°40' NW *N15°W

Location REEVES BRANCH Date 9-28-04⁷⁷Project/Client STATEMAP 2004-2005

Scale

(204) POSSIBLE BIG FAULT THRU
 HERE RUBBLE AND 35 42 45.3
 DEFORMATION BANDS 92 54 34.2 ±25'
 SEEN

(205) FAULT CUTTING THRU HERE
 ROCK DIPPING 35 42 39.3
 N70°W, 23°NE 92 54 36.0 ±19'
 FAULT TRENDING N70°W @ 16°NE
 SHALE JUST NORTH ONLY DIPPING 6°NE

BEAR CREEK 9-29-09
 SANGRE FT. DOUGLAS

(206) SS DIPPING IN CREEK. SEVERAL
 LANDSLIDES IN THIS 35 40 44.7 ±18'
 AREA. FAULT NEAR 93 12 44.9
 HERE.
 JOINTS: 35°E, 65°W, 5°E, 65°E
 E/W, 100°E

(207) A MOUND OF DIRT IN THE CREEK
 BED. CANT TELL HOW 35 46 00.0 ±20'
 EXTENSIVE IT IS 93 12 00.2

(208) POSSIBLE Phc/Php CONTACT MAYBE
 ALL Phc. ROCKS HEAVILY 35 41 14.8 ±28'
 DIPPING. Phc NE SIDE 93 11 47.3
 N65°W, 39°SW
 FAULT NEAR HERE

35E, 65W, 3E

Location BEAR CREEK Date 9-29-04

Project/Client STATEMAP 2004-2005

SANDGAP FT. DOUGLAS

(209) CANE HILL DIPPING OPPOSITE
FROM LAST POINT NO GPS POINT
JUST NE APPEAR FLAT SEE MAP
N25°E, 25°SE

(210) GREAT TPhc GULLY. FAR AS WE
COULD MAKE IT. 35 41 21.1
VERY SCENIC W/A 93 11 16.1 ±22'
(NICE POOL & WATERFALL.
TOOK PICTURES

(211) DRAINAGE OFF OF BEAR CREEK
STILL IN THE TPhc 35 40 24.9 ±30'
CANT GO ANY FARTHER 93 11 53.0

NORTH FORK ILLINOIS 9-30-04
SANDGAP

(212) LOOKS LIKE THE TPhc DIPPING IN
THE CREEK. FAULT 35 41 51.7
NEAR HERE 93 00 37.7 ±24'
N25°E, 8°S
JOINTS: 5°W, 85°E, 65°E

(213) ROCKS EITHER DIPPING OR X-BEDDED
IN CREEK. LOOKS LIKE 35 42 12.3 ±29'
TPhc, BUT CANT SEE A 93 01 14.5
FAULT
N10°W, 4°E

Location NORTH FORK ILLINOIS Date 9-30-04 79

Project/Client STATEMAP 2004-2005

SANDGAP

Scale

(214) TPhc DIPPING 35 42 11.4 ±30'
N80°E, 14°N 93 01 19.5

JOINTS: N/S

(215) GOOD SHALE/SS CONTACT APPEARS
DIPPING TO THE EAST 35 42 9.9 ±10.8
N15°W, 4.6°E 93 01 26.2 ±29'
25.7

(216) SHALE DIPPING
N85°E, 14°S 35 42 12.4 ±30'
JOINTS: N/S 93 01 32.4

10-5-04

Location LEFT HAND PRONG Date 10-5-04

Project/Client STATEMAP 2004-2005

SANDGAP SOUTH OF PEDESTAL ROCKS

(220) SOMETHING CUTTING THRU TPHC
ALMOST LOOKS LIKE 35 42 21.1
AN ANTI-CLINE 93 02 8.5 ±20'
N30°W, 16°WSW

JOINTS: N25°W, 70°E, 35°E, 60°E

N40°W, 45°E

FAULT TRENDING
ABOUT N30°W

(221) LOOKS LIKE A FAULT MAY PASS THRU
SS STARTS ABOVE 35 42 15.1
THE TPHC HERE 93 01 44.6 ±20'
TPHC SLIGHT DIP

(222) SS PACKAGE DIPPING IN THE
DRAINAGE. FAULT NEAR 35 42 12.7 ±22'
HERE 93 01 39.2
N75°E, 17°S

(223) SHALES DIPPING IN DRAINAGE
N35°W, 22°S 35 42 13.2 ±18'
93 01 38.3



Location STILL HOLLOW Date 10-6-04

Project/Client STATEMAP 2004-2005

SANDGAP

Scale

(224) TPHC DIPPING IN CREEK
FAULT NEAR HERE 35 38 32.9
N35°E, 40°SE 93 06 52.4 ±28'

JOINTS: 25°E, 15°E, 10°E, E/W

(225) TPHC REALLY DIPPING (FAULT)
N45°E, 29°SE 35 38 33.3 ±28'
(N30°E) 93 06 47.5

JOINTS: N/S

ROCKS FLATTEN
JUST AROUND BEND

(226) SS STARTS IN CREEK (TPHC)?
WAS OP HIGHER 35 38 33.5 ±27'
STILL TPHC 93 06 24.2

(227) SMALL FAULT THRU HERE?
LOOKS LIKE TPHC ON 35 38 32.7 ±24'
THE EAST SIDE UP 93 06 19.8
AGAINST TPHC TO
THE WEST
N45°E, 10°SE
FAULT: N45°-50°E
JUST AROUND TO
DRAINAGE BACK 2/3

(228) CONTACT BIT TPHC & TPAP
JUST RIGHT ABOVE 35 38
IN THE DRAINAGE 93 06
CANT GET PAST
LITTLE BLUFF NO GPS

Location STILL HOLLOW Date 10-6-04

Project/Client STATEMAP 2004-2005

SANDBAR

(229) TPhc ss? APPEARS TO BE IN PLACE ON NORTH SIDE OF CREEK BUT NOT ON THE SOUTH
35 38 38.0 38.4
93 06 12.7 ±19'
12.3

(230) TPhp FORMING DRAINAGE
35 39 1.4 ±24'
93 05 0.8
POINT (44)

(231) CONTACT: TPhc / TPhp
TPhp APPEARS TO BE DIPPING UP DRAINAGE TOWARDS THE NE
35 38 55.9 ±28'
93 05 21.0

(232) LOOKS LIKE TPhc IN INDIAN CREEK APPEARS FLAT BUT FAULTED JOINTED
35 38 1.5 ±27'
93 07 6.0
JOINTS: N/S, N55°E, 25°E

(233) GOOD TPhc IN CREEK. SS ± 30'-40" ABOVE CREEK PROB. STILL TPhc
35 39 20.7 ±25'
93 07 45.2

(234) TPhc IN CREEK
35 40 3.0
93 07 51.9 ±18'
FT DOUGLAS

Location INDIAN CREEK Date 10-6-04

Project/Client STATEMAP 2004-2005

Scale

(235) TPhc IN CREEK GOOD RIPPLE BEDS IN SS
35 40 2.9
FT DOUGLAS QUAD 93 08 1.7 ±23'

GUNTER HOLLOW 10-7-04
SANDBAR

(236) TPhc APPEARS TO BE DIPPING MAY BE X-BEDDING
35 38 47.3
N65°W, 7°N
93 07 0.3 ±19'
JOINTS: 15°E, 85°E

(237) ANOTHER SS LAYER IN THE CREEK BED. STILL LOOKS LIKE TPhc MIGHT BE TPhp
35 40 17.8 ±28'
93 06 45.7

(238) ANOTHER SHALE INTERVAL, WE'LL HAVE TO COME IN FROM THE TOP
35 40 26.8 ±25'
93 06 47.8

(239) POSSIBLE CONTACT: TPhc / TPhp
35 39 59.0 ±23'
93 06 48.3

(240) START OF A THICK SS (TPhp)? IF IT IS THERE MUST BE A FAULT
35 38 57.6 ±20'
93 06 54.6

Location DRAINAGE OFF BOYO RD Date 10-18-04

Project/Client STATEMAP 2004-2005

SMYRNA

(241) SS BLOFF, CARBONOUS. LOOKS
LIKE THE PHA 35 43 12.2
FLAT-LYING 92 59 29.7 ±27'

(242) BIG CHUNK OF SS IN DRAINAGE
W/ DEFORMATION 35 43 30.3
BANDS. V. WARM TODAY 92 59 12.8 ±19'

(243) FAULT RUNNING SOMEWHERE THRU
HERE? SHALE BELOW, NOW
BACK TO SS 35 43 34.6
92 59 1.0 ±19'

(244) SHALE DIPPING IN THE CREEK RIGHT
NEAR THE ROAD 35 43 00.2 ±22'
N40°E, 10°SE 92 59 32.0 15'

(245) SANDY / SHALE DIPPING IN CREEK
N80°E, 9°SE 35 42 54.0 ±22'
92 59 35.1
JOINTS: N5°W, E/W, 50°E

(246) PHC? STARTING TO LEVEL OUT
STILL A SLIGHT DIP 35 42 52.2 ±21'
N10°W, 13°E 92 59 44.7
JOINTS: E/W, N/S

Location DRAINAGE OFF PINEY Date 10-19-04

Project/Client STATEMAP 2004-2005

FT DOUGLAS

Scale

(247) CONTACT: PHC / PHA
COVERED SCORE 35 39 38.1
OVERCAST TODAY AND 93 13 53.4 ±29'
NOT AS WARM YET

(248) SS UNIT DIPPING HEAVILY IN DRAINAGE
COULD BE SLIDE 35 39 36.6
DOWN, BUT ALMOST 93 14 12.7 ±27'
TOO MASSIVE.
E/W, 44°S

(249) CONTACT: PHC / PHA 35 39 34.0
GOOD CONTACT, SMALL 93 14 27.9
WATERFALL JUST UP ±20'
DRAINAGE

(250) PHC IN DRAINAGE 35 38 10.3
MAINLY FLAT ±24' 93 13 42.5
LYING

(251) SHALE / SS CONTACT DIPPING IN CREEK
FAULT NEAR HERE 35 38 14.8 ±24'
PHC / PHA? 93 14 4.5
N50°E, 10°SE

(252) CONTACT: PHC / PHA 35 38 11.5
APPEARS LEVEL ON 93 14 9.5
BOTH SIDES ±21'

Location DRAINAGE OFF PINEY CREEK Date 10-19-04

Project/Client STATEMAP 2004-2005

(253) CONTACT: TP_h/P_bl
 CONTACT DOESN'T
 SEEM V. THICK ±21' 35 38 11.6
 93 14 17.8
 13.4

(254) CONTACT: TP_hc/TP_hp
 DRAINAGE OFF OF
 COLTON CEMETARY RD ±17' 35 42 2.2
 93 08 40.4

NEAR INDIAN CREEK 10-20-04
 FT. DOUGLAS FS RD 1836

(255) TP_hc DIPPING IN CREEK
 N25°E, 40SE 35 40 29.8
 93 08 51.3 ±31'

(256) GOOD BLACK SHALE ALONG CREEK
 SOUTHERN DIP? 35 40 28.8 ±19'
 93 09 18.8
 17.4

(257) SANDY UNIT START 35 40 29.1
 IN CREEK HERE. CANT ±23'
 SEE ANY DIPPING 93 09 19.8
 JOINTS: 65°E, 100°E, 5°W, 30°W

Location FS RD 1836 DRAINAGE Date 10-20-04

Project/Client STATEMAP 2004-2005

FT DOUGLAS

Scale

(258) GOOD BLACK SHALE 35 40 43.9
 BACK IN THE CREEK 93 09 26.1
 COOL AND CLOUDY
 TODAY ±22'

(259) CONTACT: TP_hp/TP_bl 35 40 56.5
 GOOD SS UNIT ENDS 93 09 29.8 ±23'
 W/ APPROX 2' SHALE
 THEN MORE ABOVE
 LOOKS LIKE BEAR HAVE BEEN HERE

(260) CONTACT: TP_hc/TP_hp 35 40 48.8
 COVERED CONTACT 93 09 28.7
 IN CREEK ±20'

(261) CONTACT: TP_hc/TP_hp 36 40 30.5
 COVERED SLOPE CONTACT 93 09 35.7
 SLIGHTLY HIGHER ±23'

(262) GOOD SS UNIT IN CREEK SOUTH
 OF LEES MILL RD 35 39 50.7
 POSSIBLE TP_hp? ±20' 93 08 48.8

(263) TOP OF TP_hp? 16' 35 39 46.0
 BACK TO GOOD ±21'
 BLACK SHALE 93 08 54.8 55.0

FT DOUGLAS

(264) CONTACT: Phc/Php
COVERED CONTACT
IN CREEK ±24' 35 41 0.4
93 07 59.0

(265) CONTACT: Phc/Php
COVERED SLOPE, CONTACT
MAYBE SLIGHTLY LOWER. ±23' 35 38 44.0
93 08 3.7
NICE COOL MORNING

(266) Phc DIPPING IN DRAINAGE
FAULT NEAR HERE?
±26' 35 38 52.3
93 08 0.5

INDIAN CREEK
DRAINAGE NEAR COLEMAN RD 10-25-04
FT DOUGLAS

(267) CONTACT: Phc/Php 35 41 57.0 ±28'
COVERED SLOPE 93 07 36.5
V. HUMID

(268) SS IN CREEK VERY JOINTED
STILL Phc? 35 42 21.7 ±27'
5°W, 50°E, 75°W 93 07 46.4
E/W

FAULT JUST SOUTH
OF HERE?
E/W, 6°S

(269) CONTACT: Phc/Php
GOOD BLUE
ABOVE CREEK ±28' 35 42 35.6
93 07 31.5

(270) Php IN DRAINAGE SANDGAP
NO SIGN OF A
FAULT THRU HERE 35 42 44.3 ±16'
93 07 28.9

(271) SMALL FAULT PASSING THRU CREEK
IN THE Phc, DEEP ±24' 35 42 38.8
FAULT UNDER SURFACE? 93 07 28.1
N75°E, 21°NW° FAULT TREND: E/W
JOINTS: 75°E

(272) GOOD Php ON BOTH SIDES OF DRAINAGE
APPEARS THICKER
THAN NORMAL ±26' 35 42 35.8
93 07 13.0

(273) CONTACT: Phc/Php
DIPPING EAST? ±27' 35 42 34.1
93 07 25.5

RIGHT HAND PRONG 10-26-04
SANDGAP

(274) Phc DIPPING IN CREEK
CLOUDY, MISTY DAY ±23' 35 42 45.2
93 02 12.0
N35°E, 10°NW
JOINTS: 45°E, 10°W

Location DRAINAGE UP TO PEDESTAL Date 10-26-04

Project/Client STATEMAP 2004-2005

SANDGAP

(275) CONTACT: TPhc/TPbl
COVERED CONTACT $\pm 21'$ 35 43 5.2
IN CREEK 93 02 7.0

(276) RIGHT HAND PRONG
GOOD SS BLUFF IN
CREEK ABOVE TPhc? $\pm 22'$ 35 43 2.2
93 02 28.8

(277) CONTACT: TPhc/TPbl
BACK TO SHALET
ZONE, COVERED SLOPE $\pm 20'$ 35 43 13.2
93 02 40.4

(278) STILL IN A LOT OF SAND. TPbl SAND?
OR HAVE WE CROSSED
A FAULT SOMEWHERE? $\pm 25'$ 35 43 24.4
LOOKS LIKE TPhc STILL 93 02 40.4

(279) CONTACT: TPhc/TPhp
COVERED CONTACT $\pm 18'$ 35 42 48.1
IN CREEK 93 02 12.6

(280) LEFT HAND PRONG
FAULT PASSING THRU
CREEK $\pm 26'$ 35 42 20.3
93 02 15.2

N50°E, 14°W

Location LEFT FORK PRONG Date 10-26-04

Project/Client STATEMAP 2004-2005

SANDGAP

Scale

(281) CONTACT: TPhc/TPhp? 35 42 15.4
MAYBE SLIGHTLY HIGHER 93 02 35.0
ROCKS APPEAR TO BE
UNGLACIATED SLIGHTLY $\pm 20'$

(282) ACTUAL CONTACT: TPhc/TPhp?
ROCKS FLAT IN
CREEK NO FAULT $\pm 20'$ 35 42 14.9
93 02 48.0

(283) GOOD TPhc BLUFF ON SOUTH
SIDE OF THE CREEK
CAN'T SEE A FAULT $\pm 24'$ 35° 42' 12.8"
93° 03' 18.4"

(284) INDIAN CREEK RD
CONTACT: TPhc/TPhp $\pm 29'$ 35 42 19.1
 $\pm 20'$ HIGHER 93 01 52.1

(285) TPhc @ ROAD LEVEL
DIPPING TOWARD
THE MAIN RD (SE) $\pm 21'$ 35 41 59.8
93 00 43.1

(286) SS UNIT IN THE ATOKA? HWY 16
THICK BEDDED ONLY $\pm 13'$ 35 43 58.4
ABOUT 10' THICK 93 01 33.1

(287) HWY 16 FLAGGY SS UNIT APPEARS
TO BE DIPPING. ATOKA? $\pm 13'$ 35 44 19.2
N50E°, 6°SE 93 02 35.1

JOINTS: 55°E, E/W

Location HWY 16 Date 10-26-04

Project/Client STATEMAP 2004-2005

SANDGAP

(288) SS UNIT ALONG RD
PART OF ATOKA? ±17' 35 43 53.5
N60°W, 5°NE 93 03 9.6

SULPHUR CREEK
SANDGAP 10-27-04

(289) CONTACT: Phc/Php 5.0
MIGHT BE A SS IN 35 41 4.7
THE Phc ANOTHER ±22' 93 03 15.2
UNIT UP THE HILL

(290) CONTACT: Phc/Php? 5.0
SOMEWHERE IN HERE ±24' 35 41 10.3
STARTED RAINING ABOUT 93 03 28.9
15 MIN AGO

(291) Phc HAS VERY SLIGHT 47.6
DIP IN CREEK ±23' 35 40 48.1
N75°E, 2°S 93 03 42.9

JOINTS: 70°E, 5°W

GET 207-219 p.79
297-297



Location MtW South of Buck Branch Date 10-8-04

Project/Client STATEMAP 2004-2005

Scale

(298) CONTACT: Pbl/Pbu 35 44 13.0
COVERED SLOPE ±17' 93 07 42.2
NORTH OF COLEMAN KNOB

(299) CONTACT: Pbl/Pbm 35 44 23.8
COVERED SLOPE ±18' 93 07 40.7
ON THE ONT

(300) CONTACT: Pbl/Pbm
GOOD CONTACT 35 43 57.5
ABOVE ONT ±22' 93 08 24.1

(301) THIS MAY BE THE 35 43 52.5
ACTUAL CONTACT Pbl/Pbm ±20' 93 08 24.2

(302) Pblm STILL IN THE DRAINAGE
DRAINING TO THE 35 43 39.3
SOUTH ±15' 93 08 26.4

(303) TOP OF THE MIDDLE BLOYS
NO FAULT SEEN ON 35 44 6.0
EITHER SIDE ±14' 93 08 0.6

(304) TOP OF MBS 35 43 52.8
COVERED SLOPE ±20' 93 08 3.2

(292)

S

E

(2)

N

7

1

(2)

S

4

1

(2)

1

FT. DOUGLAS

Scale

(305) ON OHT CAN 35 44 54.1
 SLE THE BLUFF ±18' 93 09 3.8
 SLIGHTLY ABOVE

(306) BLUFF RIGHT ABOVE 35 44 36.9
 VS. COVERED SLOPE ±20' 93 09 13.4
 W/ SLIDING. TRhp? 14.1

(307) GOOD SS BLUFF SEEN 35 44 30.0
 IN DRAINAGE CONTACT ±20' 93 09 21.6
 WITH THE TRhp/TRhp?

(308) ROCKS DIPPING IN DRAINAGE 35 44 29.7
 FAULT COULD BE ±27' 93 09 26.2
 THRU HERE, OR MAYBE
 JUST A SLIDE

(309) TRhp POSSIBLY DIPPING 35 44 29.0
 TOWARD THE SW HERE ±28' 93 09 31.2
 LOTS OF LANDSLIDING

(310) GOOD TRhp BLUFF JUST 35 44 26.3
 ABOVE THE OHT. ±20' 93 09 35.9
 SMALL BLUFF IN CREEK

96

Location HURRICANE CREEK Date 11-9-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

(311) LOOKS LIKE THE TPhp
STILL. MAYBE A SLIGHT
DIP TO THE SW ±21' 35 44 25.7
93 09 45.4

(312) SS LEDGES OR ABOVE
VS SOME TURKEYS REALLY
GETTING AFTER IT BELOW
US TOWARD THE RIVER ±20' 35 44 13.2
93 09 35.5

(313) TPhp APPEARS TO HAVE
A SLIGHT DIP ABOVE
THE SEXTON CEMETARY ±23' 35 43 48.3
93 10 15.3
N70°E, 6°NNW

(314) TPhc APPEARS DIPPING.
TPhp JUST ABOVE ON
TRAIL ±23' 35 44 10.7
93 10 13.3
N35°E, 11°SE

(315) SMALL FAULT RUNNING
THRO THE CREEK HERE.
MAYBE TPhp ON THE SOUTH
SIDE. GOOD SHALE ON NORTH
PROB. TPhc SLIGHT DIP
N15°W, 6°E? SW ±20' 35 44 27.6
93 09 36.6

97

Location NEAR ROCK CREEK Date 11-10-04

Project/Client STATEMAP 2004-2005

Scale

(316) TOP OF THE TPhp OR
CLOSE TO IT GOOD CONTACT
IN THE DRAINAGE
(ROSETTA) ±25' 35 44 31.0
93 15 3.4

(317) CONTACT: TPhc/TPhm 35 44 8.0
COVERED SLOPE, GOOD ±20' 93 14 40.0
SS BLUFF. NO DIPPING

(318) APPEARS TO BE THE
TOP OF THE TPhp. MIGHT
BE A LITTLE HIGHER.
COOL & CLOUDY TODAY ±18' 35 44 56.2
93 14 52.5

(319) CONTACT: TPhc/TPhm 35 44 55.9
COVERED SLOPE ON OLD
RD ±21' 93 14 37.6
37.1

(320) TOP OF THE MIDDLE BLOSO 35 44 53.5
SS COVERED ON OLD RD ±20' 93 14 32.5
COULD BE A LITTLE LOWER

(321) SS UNIT ALONG THE
SIDE OF THE RD. COULD
BE IN THE ATOKA ±24' 35 44 28.3
93 14 21.3

(322) DRAINAGE INTO BIG PINEY
TOP OF THE TPhp SOMEWHERE
IN HERE TOO COVERED
TO SEE IT ±17' 35 43 20.0
93 15 17.7
(ROSETTA)

Location DRAINAGE NEAR BIG PINEY Date 11-10-04

Project/Client STATEMAP 2004-2005

(323) CONTACT BETWEEN 35 43 28.3
THE Pbl / TPbm. GOOD 93 14 49.7
CONTACT W/ 30-40' BLUFF $\pm 25'$

(324) BOTTOM OF PPh. DIPPING 35 43 2.6
THRU HERE. DEFORMATION 93 19 3.0
BANDS SEEN. FAULT MAY
BE RIGHT HERE $\pm 21'$ (SOUTH SIDE)
N25°E, 17°WNW? NE (ROSETTA)

(325) BASE OF PPh ON THE 35 43 3.9
NORTH SIDE, MIGHT JUST BE 93 19 5.7
A NORTH DIPPING MONOCLINE $\pm 19'$ (ROSETTA)
(STILL DIPPING NORTH)

(326) CONTACT NEAR PINEY 35 42 0.3
AND HURRICANE CREEK 93 14 43.2
WITH PPh / PPh ON KNBS $\pm 25'$

(327) PPh IN DRAINAGE BESIDE 35 41 13.8
THE RD 131. PPh APPROX. 93 14 17.2
40' ABOVE, DIPPING SOUTH? $\pm 18'$

(328) SMALL FAULT CUTTING THRU 35 40 38.3
PPh AND PPh ALONG RD 123 $\pm 18'$ 93 14 3.1
@ PINEY CREEK.

TRENDING: N25°35'W

N10°E, 20°SE

MASSIVE IS DIPPING
ENE (PPh)

Location NEAR BIG PINEY

Date 11-15-04 99

Project/Client STATEMAP 2004-2005

FT DOUGLAS

Scale

(329) CONTACT: PPh / PPh 35 40 40.8
COVERED SLOPE IN $\pm 28'$ 93 14 45.5
DRAINAGE.

(330) TOP OF THE PPh? 35 40 40.0
COVERED SLOPE ON THE 93 14 40.0
4. WHEELER TRAIL. MAYBE $\pm 16'$ 39.7
SLIGHTLY HIGHER.

(331) CONTACT: TPbm / Pbu 35 40 32.9
COVERED SLOPE, LOOKS LIKE 93 14 59.3
SOME DIPPING ROCK JUST $\pm 17'$
NE OF HERE

(332) DEFORMATION BANDS SEEN 35 39 57.5
ON THE ROCK IN THE 93 14 37.5
DRAINAGE. TOP OF TPbm? $\pm 17'$
SEEN SEVERAL DOES TODAY

(333) FAULT PASSING THRU HERE 35 40 2.2
BASE OF TPbm ON SOUTH 93 14 35.0
SIDE, TOP OF TPbm ON $\pm 25'$
THE NORTH SIDE 35.8

(334) TOP OF THE TPbm APPROX. 35 40 10.3
20-30' BELOW US $\pm 20'$ 93 14 30.6

Location OHT HURRICANE CRK Date 11-17-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

(356) POSSIBLE Pbm? ABOVE THE 35 42 59.4
OHT DIPPING. LOOKS LIKE 93 11 26.0
Pbp JUST BELOW THOUGH ±26'

E/W, 18°N

(357) PITKIN SEEN BESIDE 35 43 6.0
THE TRAIL. FAULT TO 93 11 9.4
THE WEST? ±17'

(358) GOOD PITKIN OUTCROP 35 43 7.8
ALONG THE OHT FAULT 1M' 93 11 5.3
MAY BE CUTTING NW
NORTH OF HERE

(359) SS OUTCROP (Pbp)? 35 43 19.4
APPEARS TO BE SLIGHTLY 93 10 43.8
DIPPING ±24'
N75°W, 5°NNE 44.3

(360) START OF A LANDSLIDE 35 43 23.8
AREA. GOOD BLUFF BELOW US 93 10 41.7
Pbc OR Pbp? ±15'

Location OHT Date 11-17-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(361) CONTACT: Pbc/Pbp 35 43 28.7
COVERED SLOPE, LOTS 93 10 33.3
OF POAT HERE ±28'

(362) DIPPING SS (Pbp?) ON 35 43 41.0
THE HURRICANE. PROB. 93 10 35.7
THE Pbc SS. ±20'
N5°W, 25°W JOINTS: N13, E/W

(363) DIPPING SHALE ALONG 35 43 39.1
THE CREEK. FAULT HERE? ±20' 93 10 36.3
N25°W, 18°E

OTHER SIDE N50°E, 17°NW
FAULT: N5°W?

(364) SMALL FAULT IN THE 35 43 34.3
Pbc. U. LITTLE OFFSET 93 10 45.2
SEEN CURVING THRU ±20'
HERE. NORTH: N80°W, 23°N (NEE?)
FAULT: N25°W SOUTH: N10°E, 6°W

(365) FAULT RUNNING THRU 35 43 7.7
HERE ENDING THE MA ±17' 93 10 16.3
GOING INTO THE Pbc?
FAULT: N25°W?

Location OHT N OF DILLON Date 11-17-04

Project/Client STATEMAP 2004-2005

(366) CONTACT: P_{hp}/P_{bl} 35 43 1.8
COVERED SLOPE ON ±25' 93 11 42.7
OLD RD.

(367) CONTACT: P_{bl}/P_{bm} 35 42 59.5
P_{bm} LOOKS LIKE IT'S
DIPPING SLIGHTLY ±23' 93 11 47.8

(368) CONTACT: P_{bm}/P_{bu} 35 42 57.5
COVERED CONTACT ON ±25' 93 11 51.7
OLD RD.

BIG PINEY CREEK 11-30-04
FT DOUGLAS

(369) ON TOP OF THE P_{hp} 35 41 6.7
ON OLD RD. FAULT THRU 93 14 32.4
HERE? COLD TODAY & WET ±19'

(370) BASE OF THE P_{bm} JUST 35 41 8.8
BELOW US. CAN SEE IT 93 14 50.9
SLIGHTLY HIGHER ON THE ±24'
OTHER SIDE

(371) BOTTOM OF P_{bm} APPROX 35 41 3.8
20' LOWER, NO FAULT 93 14 56.0
SEEN THRU HERE ±27'

Location NEAR BIG PINEY Date 11-30-04¹⁰⁷

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(372) CONTACT: P_{hp}/P_{bl}
V. THICK P_{hp} THRU 35 40 58.2
HERE. 2-30' THICK ±22' 93 14 56.1
OR MORE.

(373) CONTACT: P_{hc}/P_{hp}
COVERED SLOPE ±25' 35 40 58.5
93 14 54.7

(374) CONTACT: P_{hc}/P_{hp} BIG WATERFALL
35 39 3.7 ±25' 3600 CONTACT
93 13 43.8

NEAR PARKER RIDGE RD 12-1-04
FT DOUGLAS

(375) SS UNIT HERE NOW CALCAREOUS,
V. FRACTURED FAIRLY 35 42 17.7
THICK. 20-30' VERY 93 14 37.3
COLD THIS MORNING. ±24'

(376) TOP OF THE P_{bm} 35 42 14.2
COVERED SLOPE ±20' 93 14 37.8

(377) CONTACT: P_{bl}/P_{bm} 35 42 15.4
GOOD CONTACT POINT 93 14 34.7
EXCELLENT VIEW OF
THE HURRICANE FROM ±24'
HERE

Location WEST OF HURRICANE CRK Date 12-1-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS QUAD

(378) CLOSE TO THE BOTTOM
OF THE TPBM COVERED
SLOPE, V. STEEP ±17' 35 42 29.6
93 14 23.9

(379) GOOD SS UNIT ABOVE
US, AND ABOVE THE PBM?
APPROX. 25-30' THICK ±18' 35 42 45.5
93 14 24.1
COUNTING THIN BEDED LOWER PART

(380) STARTING TO LOOSE
BOTH THE PBM AND
THE UPPER SS UNIT, NO ±15' 35 42 55.0
93 14 21.6
SIGN OF A FAULT YET

(381) BASE OF THE PBM
FAULT MUST HAVE BEEN
RIGHT NEAR THE LAST POINT ±16' 35 42 56.0
93 14 22.2

(382) TOP OF THE PBM
COVERED SLOPE, LOOKS
HIGHER JUST W OF HERE ±25' 35 42 57.1
93 14 44.5

(383) BOTTOM OF TPBM
WALKED JUST SOUTH ±28' 35 42 53.4
93 14 42.3
AND COULDN'T SEE A
FAULT. MAYBE NEAR HERE?

{ DEFORMATION BANDS BY THE NATURAL BRIDGE }
{ N70°W, 60°E }

Location WEST OF HURRICANE Date 12-1-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS QUAD

Scale

(384) GOOD SS UNIT ABOVE
THE TPBM, ATOKA? ±24' 35 43 8.9
93 13 46.0
39.5

(385) SS UNIT ABOVE THE
RD OFF OF PARKER RIDGE ±27' 35 43 39.9
93 14 24.3
RECENT LANDSLIDE HERE

(386) LOOKS LIKE THE SAME
SS UNIT AS THE LAST ±28' 35 43 54.8
93 14 46.2
POINT NOT V. THICK. RECENT

(387) FIRST SS ABOVE THE
TPBM ON THE PARKER
RIDGE RD NEAR ROSETTA ±23' 35 43 51.3
93 15 42.2

(OFF QUAD)

NEAR GREASY CREEK 12-2-04
FT DOUGLAS

(388) GOOD SS UNIT AT THE
TOP OF THE HILL FROM ±26' 35 44 0.0
93 11 51.2
MIGHT BE THE UPPER HALF?

(389) CONTACT: PBM / PBU
COVERED SLOPE, GOOD ±25' 35 43 50.2
93 11 54.6
BLUFF JUST TO THE SOUTH
ACTUAL MAIN PART OF THE BLUFF
IS ABOUT 20-30' LOWER

Location N OF HURRICANNE CREEK Date 12-2-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

42.1

(390) SHOULD BE CLOSE TO
THE BASE OF Pbm. ROCKS ±15' 35 43 42.1
93 12 27.8
ARE VERY BROKEN UP HERE

(391) CONTACT: Pbl/Pbm?
COVERED SLOPE, HARD TO ±19' 35 43 48.2
93 12 43.0
TELL IF THIS IS ACTUAL Pbm

(392) CONTACT: Pbl/Pbm
ACTUAL CONTACT BELOW 35 43 55.0
93 12 57.8
VS. APPROX. 30-40' NICE ±17'
SUNNY DAY, PROB. 50°F

(393) CONTACT: Pbl/Pbm
LOOKS LIKE ITS DIPPING ±25' 35 43 47.0
93 13 3.2
TOWARDS THE SW

(394) BASE OF THE Pbm
OR CLOSE TO IT. STARTING
TO LOOSE IT SOME ±22' 35 43 34.6
93 13 12.8
(12:40 pm)

(395) CONTACT: Pbm/Pbu
COVERED SLOPE NICE 35 43 32.0
VIEW FROM HERE, BUT ±17' 93 13 19.2
HECK OF A CLIMB

Location RIDGE EAST OF PARKER RDG RD Date 12-2-04 111

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(396) TOP OF FIRST SS ±18' 35 44 1.8
ABOVE THE Pbm. (ATOKAN)? 93 13 17.6
STARTING TO GET WARM TODAY

(397) TOP OF THE SECOND
SS ABOVE THE Pbm 35 44 9.8
NOT VERY THICK, JUST ±21' 93 13 22.5
A FEW FEET

BIG PINEY CREEK

12-3-04

FT. DOUGLAS

(398) TOP OF THE PPh
START TO LOSE IT TO ±22' 35 41 48.9
THE NORTH FAULT MAYBE 93 14 14.4
NORTH OF HERE.

(399) TOP OF THE PPh 35 41 57.1
FAULT SHOULD BE NEAR ±25 93 14 4.8
THIS AREA.

(400) TOP OF THE PPh ±22 35 41 59.0
NEAR THE DRAINAGE 93 13 56.2

(401) SS UNIT ABOVE JS IN
THE DRAINAGE. NO DEFORMATION, 35 41 55.2
BANDS SEEN YET. ±25' 93 13 53.6

(402) TOP OF SS UNIT 35 41 59.7
LOOKS LIKE ITS STILL ±21' 93 13 50.2
THE PPh

112

Location HURRICANE CREEK Date 12-3-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

(403) TOP OF THE Pbm?	35 42 10.7
GREAT VIEW OF THE CREEK	93 13 43.7
§ MOUNTAINS, BLUFF CONTINUOUS	±24'

(404) BOTTOM OF THE Pbm	35 42 11.6
OR CLOSE TO IT DOESNT	±22' 93 13 46.7
APPEAR V. THICK HERE	

(405) POSSIBLE TOP OF THE PPh	35 42 13.0
GOOD SS BLUFF BELOW US	93 13 57.0
ALMOST AT CREEK LEVEL	±16'

(406) CONTACT: Pbl/Pbm	35 42 2.5
COVERED SLOPE, CONTACT	±28' 93 13 59.5
MAYBE SLIGHTLY HIGHER	
DIPPING SLIGHTLY SOUTH TOO	
N50°E, 6°SE ✓ ON	

(407) POSSIBLE TOP OF PPh	35 42 5.1
COVERED SLOPE	±14' 93 14 20.4

(408) SS UNIT IN DRAINAGE	35 41 37.5
SEEMS CONT. PPh? FAULT	±22' 93 14 25.5
MAYBE BEHIND US (NORTH)	

NEAR BERTHA

113

Location RIDGE N OF HWY 123 Date 12-6-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(409) FIRST SS UNIT WE	35 42 56.4
CAME TO GOING DOWN	±15' 93 09 47.1
V. FOGGY & COOL TODAY	

(410) CONTACT: Pbm/PPh	35 42 39.5
COVERED SLOPE	±25' 93 10 0.8

(411) SS ALONG HWY 123 ABOVE	
THE Pbm. LOOKS LIKE	±25' 35 42 25.2
SOME MINOR DEFORMATION	93 09 34.5
BANDS IN IT, DIPPING?	

1) N80°E, 45°N? HEAVILY WEATHERED
2) N50°W, 10°E?

(412) TOP OF PREVIOUS	35 42 25.2
SS UNIT, COVERED IN	±18' 93 09 29.8
DITCH ALONG THE RD	

RIDGE EAST OF GREASY CRK
FT. DOUGLAS 12-7-04

(413) CONTACT: Pbm/PPh	35 44 19.3
COVERED SLOPE, SMALL	±20' 93 11 19.7
BLUFF IN DRAINAGE	20.0
WARMER TODAY (945am)	

(414) CONTACT: Pbm/PPh	(16') 35 43 36.4
LOOKS @ ABOUT THE SAME	±20' 93 11 27.7
ELEVATION AS ACROSS	
THE DRAINAGE COVERED SLOPE	(1021 AM)

114

Location RIDGE EAST OF GREASY CRK Date 12-7-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

27.8

(415) CONTACT: Pbm/Pbu 15' 35 43 23.8
 THOUGHT THERE MIGHT BE $\pm 2'$ 93 11 25.8
 A FAULT, BUT MAYBE JUST DIP (1037 AM) 25.7
 (SAW A NICE 8 POINT EARLY THIS MORN)

(416) CONTACT: Pbm/Pbu 35 43 34.6
 FAIRLY GOOD BLOFF BELOW $\pm 20'$ 93 11 06.8
 US. COVERED SLOPE. (1106 AM)

(417) CONTACT: Pbm/Pbu $\pm 21'$ 35 43 55.8
 COVERED SLOPE IN DRAINAGE 93 10 56.4
 JUST SAW A NICE DOE (1123 AM)

(418) CONTACT: Pbm/Pbu $\pm 21'$ 35 44 2.6
 LOOKS LIKE A FAULT MAY 93 10 54.2
 BE JUST NORTH OF HERE (1140 AM)

(419) CONTACT: Pbm/Pbu $\pm 18'$ 35 44 13.8
 COVERED SLOPE, BROKEN 93 11 2.4
 DOWN. FAULT SOUTH OF HERE? (1200 PM)

(420) CONTACT: Pbm/Pbu 35 44 18.2
 COVERED, WEATHERED $\pm 18'$ 93 10 43.0
 SLOPE. (100 PM)

Location DILLON OHT

Date 12-8-04¹¹⁵

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(421) FIRST SS ABOVE 35 42 50.0
 Pbm? OUTCROP ABOVE $\pm 21'$ 93 11 53.5
 THE OHT

(422) CONTACT: Pbm/Pbu 35 42 41.8
 COVERED SLOPE, CONTACT $\pm 18'$ 93 11 40.6
 MAY BE SLIGHTLY LOWER

(423) POSSIBLE BASE OF Pbm 35 42 46.4
 LOTS OF BREAKDOWN 93 11 35.7
 FAULT NEAR HERE? $\pm 23'$

(424) TOP OF Pbp? 35 42 45.3
 LOTS OF BREAKDOWN $\pm 16'$ 93 11 15.2
 FAULT NEAR HERE? (950 AM)

(425) CLOSE TO BOTTOM OF Pbm 35 42 44.1
 MAIN BLUFF 20-30' HIGHER $\pm 23'$ 93 11 08.6
 ROCKS SLIGHTLY DIPPING
 N85°E, 22°S FAULT PLANE: N60°E, 27°N

(426) BASE OF Pbp 35 43 12.3
 COVERED SLOPE, LOTS OF $\pm 30'$ 93 12 1.8
 LANDSLIDING IN THE AREA (1123 AM)

(427) CONTACT: Pbm/Pbu 35 43 7.1
 SEEMS A LITTLE LOWER $\pm 15'$ 93 13 2.8
 HERE THEN JUST EAST (106 AM)

(428) CONTACT: Pbm/Pbu 35 43 1.2
 FAULT MAY BE SOUTH OF 93 13 12.4
 HERE. GREAT VIEW OF
 THE BLUFFS FROM HERE $\pm 24'$

116

Location HURRICANE CREEK OHT Date 12-8-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

(429) CLOSE TO THE TOP OF (216 PM) 35 42 43.1
THE P_{hp} ON THE OHT ±27' 93 13 31.9

(430) CONTACT: P_{bl}/P_{bm} 35 42 42.6
COVERED SLOPE ON THE ±26' 93 13 16.9
OHT. BLUFF NOT V. THICK (227 AM)

(431) CLOSE TO BASE OF 35 42 50.2
P_{bm}. MIGHT BE SLIGHTLY ±25' 93 13 15.6
LOWER, APPEARS CONTINUOUS
JOINTS: N/S, E/W

(432) CONTACT: P_{bm}/P_{bu} 35 42 48.8
COVERED SLOPE ON OHT ±25' 93 13 15.5

(433) SS UNIT ABOVE THE 35 43 2.7
P_{bm}. ON THE OHT. ±25' 93 13 2.5
POSSIBLY ATOKAN (255 AM)

BIG PINEY CREEK 12-9-04
FT. DOUGLAS

(434) CONTACT: P_{bu}/P_{bm} 35 37 59.2
COVERED SLOPE ON OLD ±17' 93 13 57.6
4-WHEELER TRAIL (925 AM)

Location BIG PINEY CREEK

Date 12-9-04 117

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(435) CONTACT: P_{bm}/P_{bu} 35 38 0.0
COVERED SLOPE ON ±22' 93 14 6.4
OLD RD

(436) TOP OF THE P_{hp} ±15' 35 37 59.5
OR CLOSE TO IT. THE
FOG IS STARTING TO LIFT. (1000 AM) 93 13 38.2

(437) BOTTOM OF THE
P_{hp}. COVERED SLOPE ±22' 35 38 2.8
ON OLD RD. 93 13 35.0

(438) CONTACT: P_{hc}/P_{hp} 35 38 40.3
CONTACT ON THE OTHER ±23' 93 13 25.1
SIDE OF CREEK, NO FAULT (1040 AM)

BIG PINEY 12-13-04
FT DOUGLAS

(439) CONTACT: P_{bl}/P_{bu} 35 40 54.7
COVERED SLOPE GOOD ±26' 93 14 2.9
BLUFF, SS IN SHALE BELOW

(440) PROBABLY A FAULT
PASSING THRU NEAR HERE ±26' 35 40 53.5
P_{bm} IS OFFSET. FAULT
NOT SEEN 93 13 54.4

(441) CONTACT: P_{hp}/P_{bu} 35 48 44.5
SLIGHTLY LOWER, FAULT ±14' 93 13 22.0
CLOSE TO HERE?

(442) CONTACT: Pbl/Phm? 35 40 46.4
COVERED SLOPE ALONG HWY. SMALL BLUFF
±12' 93 13 26.0

(443) CONTACT: Pbu/Phm? 35 40 56.5
SS BELOW US ON NORTH SIDE OF THE RD.
±20' 93 13 0.0

(444) CONTACT: Phm/Pbu 35 41 7.1
GOOD BLUFF, APPROX 40' THICK. SUNNY TODAY
BUT GETTING COOLER
±25' 93 12 58.7

(445) CONTACT: Phm/Pbu 35 41 9.3
COVERED SLOPE, ROCKS FRACTURED ALOT HERE
ALSO APPEAR TO BE DIPPING SOME
±21' 93 12 50.9

(446) CONTACT: Phm/Pbu 35 41 13.7
COVERED SLOPE, SS ON NORTH SIDE LOOKS LOWER
±26' 93 12 44.4

(447) SS UNIT OFF OF HWY TOP OF Phm? OR SS UNIT IN THE Pbl 35 41 2.7
±24' 93 12 32.8

(448) CONTACT: Phm/Pbu 35 41 6.1
NO FAULT SEEN. COVERED SLOPE. MONOCLINE OR ANTI CLINE?
±21' 93 12 18.6

(449) SS UNIT ON HWY 123, ABOVE Phm. V. BROKEN & FRACTURED
±18' 35 41 53.7
93 11 33.1

(450) BOTTOM OF SS UNIT ABOVE Phm ON HWY COVERED SLOPE
±14' 35 42 32.1
93 10 21.2

(451) SHALE ON SIDE OF THE RD DIPPING. ATOKA? N36°W, 6°ESE (WSW)
±16' 35 42 25.0
93 10 1.0

ROCK
PILOT MOUNTAIN
FT. DOUGLAS

12-14-04

(452) TOP OF A SS UNIT EITHER Php OR Phm V. COLD TODAY, HIGH OF ABOUT 35°F
±20' 35 38 24.4
19 93 13 42.8
SAW A BUCK

(453) CONTACT: Php/Pbl? JUST SS AFTER SS LAYER MAY BE DIPPING NORTH
±15' 35 38 8.7
93 13 36.0

(454) BASE OF Phm? CONTACT COVERED ON OLD 4-WHEELER TRAIL
±13' 35 38 28.0
93 13 48.1

(455) TOP OF Phm GOOD BLUFF BELOW FOOD PLOT, PINE VIEW OF THE BIG PINEY (1050AM)
±13' 35 38 42.7
93 13 56.5

Location PILOT ROCK MOUNTAIN Date 12-14-04

Project/Client STATEMAP 2004-2005

(456) CONTACT: TPbm/TPbu	35 38 56.0
COVERED CONTACT, BLUFF ±21'	93 14 5.4
FRACTURED (1120 AM)	

(457) CONTACT: TPbm/TPbu	35 39 15.5
COVERED SLOPE, FAULT ±14'	93 13 57.2
SHOULD BE NEAR HERE	

(458) TOP OF TPbm. SHOULD	35 39 21.8
HAVE ALREADY PASSED ±17'	93 14 14.4
THE FAULT (1256 AM)	

(459) TOP OF SS UNIT	35 38 42.4
ABOVE THE TPbm ON OLD	93 14 20.1
U-WHEELER RD ±25'	

(460) TOP OF TPbm, SEVERAL	35 39 48.5
SS LAYERS, NOT A VERY	93 13 51.2
CONTINUOUS BLUFF ±22'	(1215 PM)

McMINN MOUNTAIN 12-15-04
FT. DOUGLAS

(461) SS UNIT ON TOP	35 41 40.2
OF HILL, COVERED SLOPE	93 10 19.0
TPbm OR ATOKAN? ±20'	(855 AM)

Location HEAD OF BEAR CREEK Date 12-15-04

Project/Client STATEMAP 2004-2005

FT DOUGLAS

Scale

(462) CONTACT: TPbm/TPbu	35 41 45.5
GOOD BLUFF ON BOTH	93 10 27.0
SIDES OF DRAINAGE ±22'	

(463) CONTACT: TPbL/TPbm	35 41 36.8
COVERED SLOPE ON	93 10 39.0
OLD FOREST RD ±18'	(920 AM)

(464) TOP OF TPbP?	35 41 36.3
MAY BE A LITTLE LOWER	93 16 48.4
IN CREEK, COVERED SLOPE ±24'	

(465) CONTACT: TPbL/TPbm	35 41 13.0
COVERED SLOPE ON OLD	93 10 54.5
FOREST RD, THIN BLUFF ±24'	(1000 AM)

(466) CONTACT: TPbm/TPbu	35 41 15.8
COVERED SLOPE ON	93 10 52.4
FLAT BENCH ±16'	

(467) SS UNIT ABOVE	35 41 14.0
THE TPbm ±21'	93 10 37.0

(468) CONTACT: TPbm/TPbu	35 40 13.8
COVERED SLOPE, GOOD	93 11 52.1
BLUFF ACROSS DRAINAGE ±17'	(1137 AM)

(469) CONTACT: TPbm/TPbu	35 40 20.6
COVERED SLOPE, GOOD	93 12 6.8
BLUFF ACROSS ±22'	(1100 AM)

Location BEAR CREEK DRAINAGE, Date 12-15-04

Project/Client STATEMAP 2004-2005

FT. DOUGLAS QUAD

(470) TOP OF SS UNIT $\pm 17'$ 35 40 22.0
 SHOULD STILL BE Pbm 93 12 31.2
 LOOKS LIKE THERE MIGHT
 BE A FAULT ACROSS THE DRAINAGE (1225 PM)

(471) CONTACT: Pbm/Pbv 35 40 30.8
 NO FAULT SEEN BUT 93 12 38.9
 APPEARS TO DIP TOWARDS $\pm 15'$
 BIG PINEY (1240 PM)

(472) TOP OF SS UNIT $\pm 25'$ 35 40 5.8
 ABOVE THE Pbm. STARTING 93 12 11.5
 TO WARM UP. (110 AM)

(473) SS UNIT ALONG MEADOWS 35 37 36.4
 KNOB RD. LANDSCAPE BELOW 93 13 22.7
 VS AND LOTS OF SS UNITS $\pm 25'$
 SOME LOOKED TO BE DIPPING (1200 PM)

(474) CONTACT: Pbm/Pbv 35 37 46.5
 GOOD BLUFF JUST OFF RD 93 13 10.2
 OVER LOOKING BIG PINEY $\pm 22'$

(475) SS UNIT ABOVE THE 35 37 47.2
 Pbm. ALONG THE RD $\pm 15'$ 93 13 00.1
 N25°W, 4°ENE

(476) TOP OF THE SAME 35 37 51.2
 SS UNIT. ATOKAN? $\pm 24'$ 93 12 55.2

Location MEADOWS KNOB RD Date 12-15-04¹²³

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(477) SECOND SS UNIT 35 38 0.9
 ABOVE Pbm ALONG RD 93 12 38.6
 N30°W, 4°NE $\pm 14'$

(478) SAME SS UNIT $\pm 15'$ 35 38 12.3
 DIPPING OPPOSITE WAY 93 12 29.6
 E/W, 7°S
 NEAR BM 1596 DIPPING 11°S
 JOINT: N80°W

(479) SAME? SS UNIT APPEARS 35 38 17.9
 TO BE DIPPING OPPOSITE WAY 93 12 27.5
 N50°W, 7°E $\pm 16'$
 JOINTS: N5°W, N70°E

(480) SS ALONG RD DIPPING 35 38 27.9
 N30°W, 5°NE $\pm 20'$ 93 12 21.9

WARDIN RD 35 12-16-04
 FT. DOUGLAS

(481) CONTACT: Pbm/Pbv 35 44 18.8
 COVERED SLOPE, LOOKS 93 09 13.0
 LIKE A LANDSLIDE AREA $\pm 21'$

(482) CONTACT: Pbm/Pbv 35 44 14.3
 COVERED SLOPE $\pm 22'$ 93 09 26.6

(483) CONTACT: Pbm/Pbv 35 43 59.3
 GOOD BLUFF w/ GREAT VIEW 93 09 24.1
 LOOKS LIKE A FAULT JUST
 ACROSS THE DRAINAGE $\pm 17'$ (1008 AM)

Location NORDIN RD, HURRICANE CRK Date 12-16-04Project/Client STATEMAP 2004-2005FT. DOUGLAS

(484) CONTACT: Pbm/Pbw 35 43 52.4
 SEEMS TO STAY @ THE ±20' 93 09 29.2
 SAME LEVEL ALL AROUND (1027 AM)

(485) DIPPING SS/SHALE 35 37 12.3
 N70°E, 22°S ±22' 93 10 59.1

FS RD OFF HWY 123 1-10-05
 FT. DOUGLAS (SUGAR CREEK)

(486) Pbm APPEARS TO 35 41 56.2
 BE DIPPING WEST. LOTS 93 11 57.0
 OF BREAKDOWN HERE ±25'

(487) Pbm? IN CREEK EITHER 35 42 9.6
 DIPPING OR LARGE X-BEDS 93 12 5.6
 TO THE NORTH ±24'
 N30°W, 22°W
 JOINTS: N60°E, N/S

(488) NEAR TOP OF Pbm? 35 42 2.1
 N25°E, 8°NW ±17' 93 12 8.8
 JOINT: N/S

Hwy 123
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Location SUGAR CREEK Date 1-10-05
 Project/Client STATEMAP 2004-2005

Scale

(489) SS BLUFF, Pbm? 35 41 37.1
 1.5' THICK HERE ±22' 93 12 28.3
 E/W, 5°N

(490) TOP OF BIG RUBBLE 35 41 30.6
 FIELD BELOW (SS) ±25' 93 12 30.0

(491) EAST OF Pbm GOOD ±22' 35 41 41.0
 SS BLUFF, SOME BREAKDOWN 93 12 43.3
 12.7

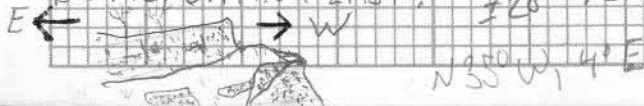
(492) TOP OF Pbm 35 41 49.5
 CANT SEE ON OLD ±21' 93 12 5.3
 FOREST RD

OFF BERTHA RD 1-11-05
 NEAR BK PINE

(493) CONTACT: Pbm/Pbw 35 39 37.8
 CLOUDY DAY, RAINING ±23' 93 12 24.0
 ON US NOW

(494) GOOD SS UNIT IN 35 39 37.0
 DRAINAGE MAYBE THE ±20' 93 12 85.8
 Pbm DIPPING SLIGHTLY

(495) GOOD THICK SS BLUFF 35 39 35.2
 LOOKS LIKE (2) SEPARATE
 BLUFFS, DIPPING EAST? ±20' 93 12 57.0



(496) PITKIN IN DRAINAGE
RUNNING INTO BIG PINEY. $\pm 21'$
PITKIN GETS SANDIER
TOWARDS THE TOP. CONTACT $\pm 20'$ HIGHER

35	39	50.0
93	13	3.1

(497) SHALES AND THIN
SS ALONG CREEK. LOOKS
DIPPING BUT COULD BE
A SLICE $\pm 20'$

35	39	34.2
93	13	9.3

(498) TPhc DIPPING ALONG
SIDE THE CREEK. GOOD
PLACE FOR DEER
N 45° W, 15° WSW $\pm 17'$

35	39	27.8
93	13	10.5

(499) POSSIBLE TOP OF
THE PPh. COULD BE A
SS IN THE TPhc $\pm 25'$

35	39	16.7
93	12	44.4

(500) TOP OF PPh? OR (PPh?)
APPEARS TO BE DIPPING $\pm 26'$
SOUTH 3 EAST A LITTLE

35	39	28.9
93	13	1.2

(501) TOP OF SS UNIT. DIPPING
AND HEAVILY FRACTURED $\pm 21'$
N 35° E, 5° ESE

35	39	24.1
93	13	5.8

(502) GOOD X-BADDED
SS IN DRAINAGE $\pm 24'$
MAY BE PPh? (PPh?)

35	39	31.5
93	12	45.7

(503) PPh DIPPING ALONG
OLD FOREST RD. VERY $\pm 20'$
HUMID TODAY.
E/W, 6° SSE

35	39	41.9
93	12	23.0

(504) CONTACT: PPh/PPh
COVERED CONTACT $\pm 19'$

35	39	43.2
93	12	16.9

(505) TOP OF PPh?
COVERED SLOPE AND
CAN'T SEE BLUFF $\pm 17'$
GETS V. STEEP THOUGH

35	39	1.8
93	13	10.4

(506) GOOD PPh BLUFF
VERY GOOD FIELD $\pm 23'$
HERE W/ LOTS OF DEER TRACKS

35	38	56.1
93	13	0.3

(507) BASE OF 1ST SS $\pm 22'$
UNIT ABOVE THE PPh

35	38	33.3
93	12	54.0

(508) TOP OF 2ND SS
UNIT ABOVE THE PPh $\pm 24'$

35	38	29.0
93	12	37.0

(509) BASE OF Pbm? 35 37 7.8
COVERED SLOPE ON OLD 93 11 46.0
FS RD, SS FLAT ±20'

(510) TOP OF PPh? 35 37 58.6
SEEMS KWO OF HIGH ±15' 93 11 41.6
IN THE DRAINAGE

(511) FAIRLY MASSIVE SS 35 37 39.9
UNIT LOOKS LIKE Pbm 93 11 28.0
BUT PROB. PPh. CLOSE ±21'
TO THE RIVER

(512) TOP OF SAME SS (PPh) 35 37 42.2
UNIT. VERY BROKEN UP ±20' 93 11 7.2
± NO LONGER A GOOD BLUFF. ±17'

(513) SS ABOVE AND BELOW 35 37 30.0
US. VERY BROKEN UP & HARD 93 10 53.0
TO TELL WHAT FORMATION ±20'
MAYBE A FAULT PASSING JUST SOUTH
GOOD LIESENGANG BANDWG

(514) GOOD SS BLUFF. ±20' 35 38 11.0
LOOKS ±20' THICK IN 93 11 23.2
PLACES. Pbm or PPh?

(515) SS UNIT IN DRAINAGE 35 37 32.2
NORTH OF CREEK DIPPING 93 13 2.2
N55°W, 35°NE ±25'
THIN BEDDED, HEAVILY WEATHERED

(516) SS IN DRAINAGE AREAS 35 37 38.1
FLAT-LYING. ROCKS JUST ±24' 93 12 47.7
SW ON TRAIL WERE DIPPING.

(517) THIN BEDDED SHALE 35 37 37.1
SS UNIT IN DRAINAGE. ±24' 93 12 36.2
MASSIVE SS ±20' ABOVE

(518) SS UNIT DIPPING 35 37 31.4
ON HILLSIDE. ±24' 93 12 56.1
E/W, 37°N

(519) SS UNIT ON MEADOWS 38.3
KNOB RD LOOKS TO BE ±25' 35 38 38.3
DIPPING, NOT JUST SLIDE 93 13 24.3
N70°W, 12°NE

MEADOWS MTW RD 1-13-05
FT DOUGLAS

(520) Pbm just below 35 39 16.9
US IN DRAINAGE V, ±28' 93 11 28.3
COLD TODAY

(521) TOP OF PPh? ±16' 35 38 52.9
COVERED SLOPE, VERY
BROKEN UP. NOT CALCAREOUS 93 10 53.9

(522) TOP OF Pbm? ±24' 35 39 7.9
COVERED SLOPE, BROKEN
UP, NOT A LARGE OUTCROP 93 11 40.8

(523) THIN BEDDED SS ±24' 35 39 17.4
ABOVE Pbm DIPPING SLIGHTLY
N70°W, 3°SSW 93 11 46.6

RD OFF MEADOWS KNOB 1-18-05
FT. DOUGLAS (SPRING CREEK)

(524) LOOKS LIKE TOP OF
Pbm. SUNNY BUT VERY
COOL TODAY. ±19' 35 39 38.8
93 11 41.8

(525) CONTACT: Pbm/Pbu? 35 39 7.2
GOOD SS BLUFF. MIGHT ±23' 93 10 54.8
BE THE PPh (550)

(526) DEFORMATION BANDS
SEEN IN SS. LOTS OF ±23' 35 39 40.1
FLOAT, LANDSLIDE AREA ±(20') 93 11 21.0

(527) SS UNIT NOT
VERY THICK. LOOKS ±18' 35 39 25.2
LIKE MORE BELOW 93 11 15.8

(528) FAIRLY THICK SS
UNIT ALONG OLD FS ±22' 35 39 40.0
ROAD. APPEARS FLAT 93 11 27.4

SOUTH OF MICHMIN KNOB
FT. DOUGLAS 1-19-05

(529) CONTACT: Pbm/Pbu? 35 41 38.0
GOOD BLUFF IN DRAINAGE ±24' 93 09 24.6
NICE DAY TODAY. NOT CONTACT, JUST GOOD SS

(530) CONTACT: Pbm/Pbu
GOOD BLUFF IN DRAINAGE 35 41 18.7
MAYBE A SLIGHT DIP UP 93 09 28.4
THE DRAINAGE? VERY ±21'
FRACTURED AND WEATHERED HERE

(531) SS UNIT ABOVE THE
Pbm APPROX. 40' HIGHER 35 41 22.7
IN DRAINAGE ±20' 93 09 21.6

(532) CONTACT: Pbm/Pbu?
CONTACT MAYBE SLIGHTLY
HIGHER (20'). COVERED SLOPE ±18' 35 41 11.6
93 09 17.5

FT. DOUBLAS

- (533) CONTACT: Pbm/Pbu 35 40 59.8
GOOD BLUFF ON OTHER ±17' 93 09 16.2
SIDE OF THE DRAINAGE.
COVERED SLOPE HERE ON OLD FS RD
- (534) FIRST SS UNIT ABOVE
THE Pbm. APPROX 20-30'
ABOVE FS ROAD ±19' 35 40 55.3
93 09 1.1
- (535) CONTACT: Php/Pbl? 35 40 39.0
VERY BLOCKY & BROKEN UP. ±13' 93 08 35.3
DIPPING EAST MAYBE?
- (536) A LOWER SS LEDGE.
STILL IN THE Php? VERY ±14' 35 40 33.8
FRACTURED. NO DEFORMATION 93 08 35.7
BANDS SEEN
- (537) SS ALONG RD HAS ±24' 35 40 34.8
SOME MINOR DEFORMATION 93 08 25.0
BANDS. NOT A GOOD BLUFF
- (538) Pbm IN THE ROAD 35 40 47.0
AND ON THE HILLSIDE. 93 08 44.5
COVERED SLOPE, NOT A
VERY GOOD OUTCROP ±22'
MICA / MOSCOVITE SEEN

- (539) Pbm JUST BELOW
SS IN DRAINAGE. COVERED ±16' 35 40 57.8
SLOPE 93 08 43.9
- (540) CONTACT: Pbm/Pbu 35 42 25.3
GOOD BLUFF BELOW, ±20' 93 08 33.4
FRACTURED. Pbm HIGHER
UP THE RD?
- (541) GREAT SS BLUFF (Pbm)?
JOINTED, VERY LARGE PIECES
HAVE FALLEN OFF. HEAT ±27' 35 42 0.8
PLACE JOINTS: N75°W 93 07 57.9
- (542) SS UNIT IN DRAINAGE ±22' 35 41 19.7
LOOKS LIKE THE Pbm 93 08 34.1
LOWER HERE THAN BEFORE
- (543) POSSIBLE Pbm ON HILLSIDE
SS LEDGE NOT VERY GOOD ±14' 35 41 16.9
THOUGH. MAYBE TOP OF? 93 08 36.4
- (544) Pbm? APPROX 30-40'
ABOVE THE RD. GOOD BLUFF ±17' 35 39 37.7
93 07 54.9
- (545) GOOD SS BLUFF APPROX ±19' 35 38 43.7
50' FEET ABOVE THE RD 93 07 24.3
- (546) CONTACT: Pbc/Pbd ±20' 35 41 54.9
COVERED SLOPE ON RD 93 08 8.8
- (547) CONTACT: Pmp/Pbl? ±24' 35 41 54.2
COVERED ON RD 93 08 17.8

Location INDIAN CRK RD Date 1-19-05

Project/Client STATEMAP 2004-2005

(548) CONTACT: Pbl/Pbm 35 42 18.5
COVERED SLOPE ON ~~±22'~~ 93 08 24.1
THE ROAD

LEES MILL RD 1-20-05

(549) DEFORMATION BANDS 35 40 6.8
SEEN IN THE SS IN THE ~~±21'~~ 93 09 14.6
ROAD

(550) SS DIPPING IN THE RD ~~±16'~~ 35 40 2.9
N50W, 12°E ~~±18'~~ 93 09 4.0
JOINTS = 3°W, 80°E

(551) GOOD SS UNIT DIPPING ~~±18'~~ 35 39 58.9
ON HILLSIDE. SAME FORMATION? 93 09 5.2
N10°E, 23°E (LOTS OF Fe & ~~OR~~ PEBBLES)

(552) GOOD SS UNIT IN DRAINAGE 35 39 52.4
LOOKS KINDA LIKE Pbm, FRAC. ~~±20'~~ 93 09 8.9
& MAYBE SLIGHTLY EAST DIPPING

(553) TOP OF SS UNIT (Pbm) ~~±19'~~ 35 40 0.9
LOOKS FLAY-LYING, VERY 93 08 47.3
NICE DAY

(554) SS BELOW VS IN DRAINAGE 35 40 3.1
START TO LOSE IT HERE ~~±23'~~ 93 08 51.1
(~~±20'~~ BELOW)

Location NEAR LEES MILL RD Date 1-20-05

Project/Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(555) SS HERE HAS A GOOD ~~±25'~~ 35 40 4.7
DIP. LOOKS LIKE SS JUST BELOW. 93 09 6.8
N10°W, 30°E (BOTTOM OF SS HERE)

(556) SS UNIT STARTING TO ~~±24'~~ 35 40 9.9
FLATTEN OUT. LOTS OF FLAT. 93 09 10.5

(557) TOP OF SS UNIT (SAME)? ~~±26'~~ 35 40 18.7
LOOKS LIKE WE MIGHT LOSE 93 08 49.5
IT. GETTING WARM TODAY

(558) BASE OF THE SS ON ~~±24'~~ 35 40 22.7
OLD FS RD 93 08 51.9

(559) BASE OF SAME SS ~~±24'~~ 35 40 22.3
UNIT. SLIGHT EAST DIP 93 08 59.3

(560) SAME SS STILL GOING ~~±26'~~ 35 40 17.1
UP. LOOKS LIKE Pbm 93 09 08.5

(561) DEFORMATION BANDS ~~±18'~~ 35 40 17.0
SEEN IN THE SS. STILL ~~±25'~~ 93 09 16.8 16.4
DIPPING EAST.

(562) BASE OF THE SS UNIT ~~±25'~~ 35 40 14.4
LOOKS LIKE ITS LEVELING 93 09 36.8
OUT HERE

(563) TOP OF Pbm ON ~~±23'~~ 35 39 57.7
FLAT RD. COVERED SLOPE 93 09 50.5

(564) DEFORMATION BANDS IN ~~±17'~~ 35 39 55.3
SS ON SIDE OF RD 93 09 45.8

(565) GOOD SS UNIT. PROB. ~~±21'~~ 35 39 41.5
Pbm. COVERED SLOPE 93 09 17.0
TEMP. JUST RIGHT TODAY

(1337 pm)

Location OFF MAUPIN FLAT RD Date 1-20-05

Project/Client STATEMAP 2004-2005

(566) GOOD SS IN DRAINAGE LOOKS LIKE PbM / PBL ?	±19'	35 40 51.7 93 10 4.4
(567) ON TOP OF PbM? GOOD LEDGE BELOW US & SMALL BLUFF ~20'-30' ABOVE (1455)	±21'	35 40 50.4 93 09 45.0
(568) LOSE 1ST SS ABOVE PbM? NO FAULT SEEN SO FAR	±22' ±16'	35 40 47.5 93 09 49.5
(569) TOP OF PbM? LOOKS LIKE ITS DIPPING UP DRAINAGE	±17'	35 40 46.2 93 09 56.8
(570) NEAR TOP OF PbM? MIGHT BE SS UNIT ABOVE. DIPPING (4580)	±16'	35 40 53.6 93 10 0.9

WEST OF FREEMAN KNOB

1-21-05

(571) SMALL SS LAYER IN DRAINAGE NOT V. THICK. ABOVE PbM? <u>BELOW</u>	±20'	35 39 21.1 93 10 13.5
(572) SS UNIT IN DRAINAGE DOESNT APPEAR V. THICK PROB. BELOW PbM	±18'	35 39 19.9 93 09 54.2
(573) SS UNIT IN DRAWAGE OFF OF TREAT RD	±24'	35 37 47.9 93 09 47.8

Location TREAT RD

Date 1-21-05 137

Project/Client STATEMAP 2004-2005

(574) SS UNIT ON SIDE OF RD. X-BEDDED, VERY FRACTURED	±21'	35 37 19.3 93 09 35.2 34.7
(575) SS DIPPING IN DITCH N35°W, 18°SW	±22'	35 37 5.6 93 09 36.9