

# STATE MAP



*Rite in the Rain*

ALL-WEATHER

Geological

FIELD BOOK

No. 540 F

2004-2005

INCH CM

"Rite in the Rain"  
ALL-WEATHER WRITING PAPER



ALL-WEATHER  
**GEOLOGICAL FIELD BOOK**

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Project STATEMAP 2004-2005

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Location MEADOWS KNOB Date 1-24-05

Project / Client STATEMAP 2004-2005

FT. DOUGLAS SPRING CREEK

(576) CONTACT: TPbm / TPbu 35 39 51.0  
CONTACT SLIGHTLY LOWER  $\pm 15'$  93 10 29.4  
DIPPING ACROSS DRAINAGE

(577) CONTACT: TPbl / TPbm  $\pm 20'$  35 39 45.7  
COVERED CONTACT, GOOD SS 93 10 28.2

(578) BASE OF GOOD SS UNIT  
TPhp? GOOD FE BANDING  $\pm 21'$  35 39 38.6  
93 10 33.3

(579) GOOD SS UNIT IN CREEK  
DIPPING: N20°E, 20°ESE 35 39 31.5  
JOINTS: N20°E, E/W  $\pm 24'$  93 10 20.8  
STRIKE OF FAULT?: N65°E

(580) Phe DIPPING IN CREEK 35 39 19.3  
FLATTENS OUT DOWN CREEK  $\pm 20'$  93 10 28.9  
N65°W, 11°S

(581) Phe DIPPING IN CREEK 35 39 34.4  
N25°E, 9°ESE  $\pm 20'$  93 10 19.8  
JOINTS: 50°W, 20°E

Location MEADOWS KNOB Date 1-24-05

Project / Client STATEMAP 2004-2005

FT. DOUGLAS

Scale

(582) ROCKS IN CREEK 35 39 44.1  
ARE FLAT-LYING. Phe?  $\pm 24'$  93 10 15.5

(583) TOP OF SS UNIT 35 39 40.3  
DOESNT LOOK LIKE  $\pm 24'$  93 10 31.0  
TYPICAL TPhp, Phe SS?

(584) TOP OF SMALL SS 35 40 2.7  
BLUFF, NO GOOD BLUFF  $\pm 21'$  93 08 16.4  
BUT SEE IT IN RD BED

(585) GOOD BLUFF BELOW 35 39 55.3  
US. TPhp OR TPbl SS?  $\pm 19'$  93 08 18.0

(586) 1st SS ABOVE TPbm? 35 39 50.5  
OR SS IN TPbl. X-BEDDED  $\pm 18'$  93 08 20.5  
PACKAGES, CONTINUOUS BASE

(577) TPbm ABOVE US  $\pm 23'$  35 39 31.4  
APPROX. 30', GOOD BLUFF 93 08 35.2  
BELOW  $\approx$  40' SHALE BETWEEN

UMPHERS MTN AREA 1-25-05

(588) CONTACT: TPbm / TPbu 35 39 32.0  
AT OR NEAR, COVERED ABOVE  $\pm 15'$  93 08 20.9

(589) CONTACT: TPbm / TPbu 35 39 7.4  
COVERED SLOPE, GOOD  $\pm 21'$  93 08 22.4  
BLUFF BELOW US

Location UMPHERS MTN. AREA Date 1-25-05Project / Client STATEMAP 2004-2005

(590) CONTACT:  $P_{bc}/P_{bm}$   $\pm 25'$  35 39 3.3  
 LARGE FLOAT BLOCKS AND  
 BOXWORK, ANOTHER SS BELOW  
 93 08 19.5

(591) COUPLE OF GOOD SS  
 BLUFFS BELOW, WHICH  $\pm 24'$  35 38 56.8  
 IS  $P_{hp}$ ? 93 07 56.1

(592) POSSIBLE  $P_{hc}/P_{hp}$   
 CONTACT COVERED SLOPE  $\pm 22'$  35 38 55.7  
 93 07 52.4

(593) CONTACT:  $P_{hc}/P_{hp}$ ?  
 COVERED TO CREEK, JUST  $\pm 24'$  35 39 29.3  
 ABOVE RD 93 07 53.0

(594) RECENT LANDSLIDE  
 SS @ CREEK LEVEL  $\pm 24'$  35 40 18.7  
 93 08 6.7  
 SHALE  $\Rightarrow$  SILTSTONE - GOOD  
 SS ABOVE CREEK LEVEL

(595) GOOD BLUFF ABOVE  
 US. APPROX. 40' ABOVE  
 THE RD.  $\pm 26'$  35 37 17.6  
 93 07 38.4

Location N OF FREEMAN KNOB Date 1-25-05Project / Client STATEMAP 2004-2005

Scale

(596) BASE OF  $P_{bm}$ . LOOKS  
 LIKE ITS DIPPING DOWN.  $\pm 13'$  35 39 49.5  
 DEFORMATION BANDS 93 09 41.7

## S OF FREEMAN KNOB

(597) CONTACT:  $P_{bm}/P_{bu}$   
 SS LEDGES BELOW, ONE  $\pm 21'$  35 38 44.5  
 GOOD LEDGE JUST ABOVE 93 09 23.6

(598) BASE OF SS ABOVE  
 $P_{bm}$ , LOOKS SHALEY BELOW  $\pm 23'$  35 38 51.6  
 SS IS THIN-MED BEDDED 93 09 7.9

(599) TOP OF 1ST SS UNIT  
 ABOVE  $P_{bm}$ . NOT TOO  $\pm 19'$  35 38 17.0  
 THICK 93 08 37.9

## INDIAN CREEK RD

1-26-05

(600) ON TOP OF SS UNIT  
 POSSIBLE  $P_{hd}$ . SHALE  $\pm 22'$  35 38 46.3  
 ABOVE US 93 07 53.9

(601) BASE OF  $P_{bm}$ , GOOD  
 SS BELOW TOO. BOTH  $\pm 17'$  35 38 27.5  
 SEEM CONTINUOUS 93 08 14.3

(602) CONTACT:  $P_{bm}/P_{bu}$   
 VERY NICE DAY, COVERED  $\pm 18'$  35 38 10.4  
 SLOPE ON RD SOUTH 93 08 10.2  
 OF UMPHERS KNOB



Location INDIAN CREEK RD Date 1-26-05Project / Client STATEMAP 2004-2005

\* (603) BUZZARDS ROOST.  
CONTACT: Pbm/Pbu. VERY  $\pm 20'$  35 38 2.3  
93 08 0.7  
SCENIC, NATURAL BRIDGE,  
CONCORDIAL FRACTURING

(604) NATURAL BRIDGE @  $\pm 25'$  35 38 6.0  
BUZZARDS ROOST, Pbl/Pbm 93 08 0.8  
JOINTS:  $55^\circ E, 65^\circ W$

(605) CONTACT: Pbm/Pbu  $\pm 20'$  35 38 8.4  
COVERED ON OLD RD 93 08 2.6

(606) CONTACT: Pbl/Pbm  
COVERED CONTACT, MAY BE  $\pm 23'$  35 38 5.2  
93 07 47.8  
SLIGHTLY LOWER

(607) SS IN DRAINAGE, TOP  
OF Php? COVERED SLOPE  $\pm 25'$  35 38 7.9  
93 07 34.4

(608) SEVERAL LEDGES OF SS  
ON HILLSIDE. VERY STEEP  $\pm 23'$  35 38 12.7  
93 07 19.6

Location INDIAN CREEK RD Date 1-26-05Project / Client STATEMAP 2004-2005

Scale

(609) GOOD SS UNIT. Pbm/Pbu? 35 37 52.5  
COVERED SLOPE  $\pm 15'$  93 10 13.4

(610) TOP OF Pbm? MAYBE  
A LITTLE LOWER  $\pm 18'$  35 38 26.2  
93 10 21.2

GUNTER TRAIL 1-27-05

(611) BASE OF Pbm?  $\pm 35'$  35 40 21.9  
COVERED SLOPE ON TRAIL 93 07 36.7

(612) GOOD SS UNIT IN DRAINAGE  
Pfp OR Pfc SS?  $\pm 20'$  35 40 17.1  
93 07 40.0

(613) GOOD SS ALONG RD  
CONTACT Pfc/Pfp? SHALE  $\pm 18'$  35 40 7.0  
BELOW CALcareous SS 93 07 49.0

(614) CONTACT: Pfp/Pbl?  $\pm 19'$  35 40 11.0  
COVERED SLOPE ON TRAIL 93 07 47.5

(615) CONTACT: Pbm/Pbu?  
GOOD SS LEDGES BELOW  $\pm 14'$  35 40 26.1  
JUST BELOW Pbm? 93 08 5.7

(616) CONTACT: Pbm/Pbu?  
TOP OF GOOD SS BLUFF  $\pm 24'$  35 40 28.8  
GREAT VIEW 93 08 11.1

Location RICHLAND CREEK Date 1-31-05  
 Project / Client STATEMAP 2004-2005

(617) POSSIBLE PbM. SS LEDGE 35 44 14.5  
 ABOVE US ON SM RIDGE ±21' 93 04 25.8

COX RD

(618) CONTACT: PbM/PbU 35 44 50.2  
 SS ALONG RD ±15' 93 02 36.9

(619) TOP OF PbM BELOW 35 41 26.7  
 US APPROX 20-30' ±13' 93 07 56.6

OFF GUNTER TRAIL RD 2-1-05

(620) TOP OF PbM APPROX. 35 41 5.1  
 20' ABOVE US IN DRAINAGE 93 07 26.9  
 JOINTS: 75°E, 10°E ±18'

(621) PbM MOVED HIGHER 35 41 10.4  
 DONT SEE FAULT - PROB ±25' 93 07 32.3  
 MONOCLINE @ TOP

(622) CONTACT: PbL/PbM 35 41 20.8  
 COVERED IN DRAINAGE 93 07 48.3  
 ±23'

Location OFF GUNTER TRAIL Date 2-7-05  
 Project / Client STATEMAP 2004-2005

Scale

(623) CONTACT: PbL/PbM 35 41 20.8  
 STILL GOING UP ±13' 93 07 40.3  
 N60°E, 70SE

(624) IN DRAINAGE CONTACT 35 41 26.2  
 JUST BELOW US -15' ±23' 93 07 44.6

(625) 1ST SS ABOVE PbM 35 41 31.1  
 IN DRAINAGE ±21' 93 07 41.5

(626) TOP OF PbM. GOOD 35 41 4.8  
 BLUFF, SAME ELEV. ON ±24' 93 06 51.8  
 OPPOSITE SIDE

(627) PbM TOP JUST 35 40 40.0  
 ABOVE US, OR IS THIS ±22' 93 07 4.0  
 THE BASE?

(628) CONTACT: PbP/PbL? 35 40 29.0  
 GOOD BLUFF HERE ±16' 93 06 57.7

HEADWATERS INDIAN CREEK

(629) CONTACT: PbM/PbU 35 42 39.9  
 LOOKS LIKE IT MAY BE ±16' 93 06 25.1  
 DIPPING ACROSS DRAINAGE

(630) TOP OF PbM 35 42 32.4  
 COVERED ABOVE ±26' 93 06 36.9  
 PRETTY STEEP SLOPE

Location BIG PINEY Date 2-7-05Project / Client STATEMAP 2004-2005FT. DOUGLAS QUAD

(631) Phc IN DRAINAGE IS  
FLAT-LYING. PPh ABOVE.  
DEFORMATION BANDS?

		35 40 22.2
±24'		93 14 27.0

LEFT HAND PRONG 2-8-05

(632) CONTACT: Pbm / Pbu  
GOOD SS IN DRAINAGE  
COVERED SLOPE

		35 42 30.7
±20'		93 03 56.3

(633) FIRST SS UNIT ABOVE  
THE Pbm IN DRAINAGE

		35 42 33.3
±25'		93 03 44.4

(634) CONTACT: Pbm / Pbu  
GOOD BLUFF. CANT SEE  
IT ACROSS DRAINAGE

		35 42 23.3
±23'		93 03 5.0

(635) Pbm IN DRAINAGE  
UPPER CONTACT APPEARS  
SLIGHTLY HIGHER

		35 42 48.5
±21'		93 02 56.0

(636) CONTACT: Pbm / Pbu?  
SOME SHALE BELOW IN  
DRAINAGE. SOUTH DIP?

		35 43 51.1
±16'		93 02 30.3

Location COX RD SOUTH Date 2-8-05Project / Client STATEMAP 2004-2005

Scale

(637) FIRST SS ABOVE Pbm?  
NOT VERY THICK. DIPPING SE?

	±15'	35 43 55.4
		93 02 27.6

(638) CONTACT: Pbm / Pbu  
APPEARS TO HAVE A SLIGHT  
SE DIP IN DRAINAGE

		35 43 51.3
±18'		93 02 23.9

(639) SS UNIT ABOVE Pbm  
STARTS TO DIP HERE. S/SE  
JOINT: N85°E

		35 44 0.0
±14'		93 02 33.2

(640) CONTACT: Pbm / Pbu  
TOP OF KINGS BLUFF @  
PEDESTAL ROCKS

		35 43 27.9
±24'		93 01 30.3

(641) CONTACT: Pbi / Pbm  
BASE OF KINGS BLUFF  
JOINTS: 30°E, 30°W, 85°E  
70°E, N/S

		35 43 27.0
±20'		93 01 33.2

(642) CONTACT: Pbm / Pbu  
APPEARS TO DIP DOWN  
TOWARDS KINGS BLUFF

		35 43 15.2
±15'		93 01 26.7

(643) CONTACT: Pbm / Pbu  
SMALL SS UNIT JUST ABOVE  
FAULT NEAR HERE?

		35 43 16.2
±26'		93 01 12.1

(644) CONTACT: Pbm / Pbu?  
MIGHT BE 1st SS ABOVE

		35 43 41.4
±20'		93 00 56.0

Location PEDESTAL ROCKS Date 2-8-05Project / Client STATEMAP 2004-2005

(645) CONTACT: Pbm/Pbu ±16' 35 42 47.8  
 CONTACT LOOKS LOWER ACROSS  
 THE VALLEY (EAST) 93 01 4.0

(646) CONTACT: Pbm/Pbu 35 42 36.0  
 GOOD BLUFF, GREAT VIEW ±17' 93 01 16.1  
 JOINTS: 40°E, 20°E, 40°W, 65°E

(647) DEFORMATION BANDS SEEN 35 43 19.6  
 ON ROCKS NEAR TRAIL ±24' 93 00 57.5

SULPHUR CREEK HEADWATERS 2-9-05

(648) CONTACT: Pbm/Pbu 35 41 34.8  
 GOOD X-BEDDED SS IN ±25' 93 05 31.6  
 DRAINAGE

(649) CONTACT: Pbm/Pbu ±25' 35 41 14.4  
 COVERED SLOPE, CLOUDY/COOL 93 04 57.3

MORRIS RIDGE RD

(650) CONTACT: Pbm/Pbu 35 42 8.1  
 COVERED SLOPE, SS LEDGES 93 00 41.7  
 BELOW 3 ABOVE ±25'

Location SULPHUR CREEK Date 2-9-05Project / Client STATEMAP 2004-2005

Scale

(651) CONTACT: Pbm/Pbu 35 42 42.3  
 PEDESTAL RX ACROSS, NOT ±21' 93 00 43.4  
 A U. GOOD CONTACT

BUCK BRANCH HEADWATERS 2-10-05

(652) SS UNIT IN DRAINAGE 35 43 51.1  
 FLAT-LYING, Pbm? ±16' 93 06 10.5

(653) CONTACT: Pbm/Pbu 35 44 23.5  
 GOOD BLUFF OFF ONT ±20' 93 06 28.5

(654) GOOD SS UNIT IN CREEK 35 44 27.8  
 Php OR PPhc SS? SLIGHT ±25' 93 06 54.3  
 NORTH DIP?

(655) BASE OF PPh? GOOD 35 44 29.6  
 SS BLUFF ±40' THICK. ±25' 93 07 16.9  
 SLIGHTLY CALCAREOUS

(656) SS UNIT ALONG OLD RD 35 44 28.7  
 LOOKS LIKE PPh BUT ±27' 93 07 36.2  
 NOT CALCAREOUS

(657) SS DIPPING ALONG RD 35 44 24.2  
 DOES NOT LOOK LIKE TYPICAL 93 06 55.3  
 PPh. N65°E, 80°W ±27'  
 FLATTENS OUT JUST TO  
 THE SOUTH FAULT ZONE THRU HERE?

Location BUCK BRANCH HEADWATERS Date 2-10-05Project / Client STATEMAP 2004-2005

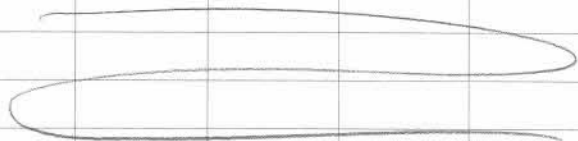
(658) ROCKS DIPPING OPPOSITE 35 44 22.6  
 DIRECTION: INTER-BEDDED  $\pm 21'$  93 06 54.5  
 SS/SHALE. N85°E, 7°SSE  
 FAULT PLANE: N65°W OR N100°E

(659) CONTACT: PPhp/Pbl  $\pm 19'$  35 44 11.5  
 SS ALONG RD FLAT-LYING 93 06 50.8  
 TYPICAL PPhp

(660) CONTACT: Pbl/Pbm 35 44 13.0  
 GOOD SS ALONG RD w/  $\pm 18'$  93 06 50.0  
 SHALE BELOW

(661) BASE OF SS UNIT 35 44 11.5  
 6' JUST ABOVE RD, Pbm  $\pm 21'$  93 06 41.8  
 OR 12' ABOVE

(662) CONTACT: Pbm/Pbu 35 43 57.8  
 GOOD SS IN DRAINAGE  $\pm 12'$  93 06 35.7

Location LEFT HAND PRONGDate 2-14-05Project / Client STATEMAP 2004-2005

Scale

(663) CONTACT: Pbm/Pbu 35 42 35.5  
 SS IN DRAINAGE, V.  $\pm 17'$  93 04 9.4  
 NICE TODAY

(664) SS IN DRAINAGE. SMALL 35 42 16.0  
 LEDGES ABOVE US Pbm  $\pm 15'$  93 04 11.6  
 FAULT NEAR HERE?

SILVER POINT TRAIL 2-15-05

(669) CONTACT: Pbm/Pbu 35 38 47.6  
 GOOD SS, COVERED SLOPE  $\pm 26'$  93 06 19.0

(670) BASE OF Pbm JUST 35 38 44.6  
 ABOVE TRAIL. GOOD BLUFF.  $\pm 23'$  93 06 27.0

(671) TOP OF SS UNIT ON TRAIL 35 38 45.5  
 PPhp? COVERED SLOPE  $\pm 17'$  93 06 49.0

(672) BASE OF SS UNIT 35 38 44.7  
 INTER-BEDDED Pbl?  $\pm 22'$  93 06 51.2



Location SILVER POINT TRAIL Date 2-15-05Project / Client STATEMAP 2004-2005

(673) LOOKS LIKE TOP OF  
Pph. GOOD BLUFF BELOW ±25' 35 38 45.1  
93 06 56.4

(674) CONTACT: TPbc/TPhp?  
GOOD SHALE/SS CONTACT ±23' 35 38 44.9  
93 06 58.1  
BUT NOT U. FOSSILIFEROUS

(675) CONTACT: TPbm/TPbu 35 38 54.6  
COVERED CONTACT BELOW. ±17' 93 06 3.5  
JUST SAW AN OWL!

## SULPHUR CREEK

(676) TOP OF GOOD SS BLUFF 35 40 43.4  
TPbm/TPbu? COVERED SLOPE ±17' 93 04 32.5

(677) BASE OF 1ST SS UNIT 35 40 42.3  
ABOVE TPbm. APPROX 10' THICK ±25' 93 04 53.8

(678) BASE OF SECOND SS 35 40 47.3  
UNIT ABOVE TPbm ±21' 93 05 0.8

Location FREEMAN SPRING CEM. RD Date 2-15-05Project / Client STATEMAP 2004-2005

Scale

(679) CONTACT: TPbm/TPbu 35 39 58.5  
SS ACROSS DRAINAGE ±20' 93 02 3.7  
@ SAME ELEVATION

(680) CONTACT: TPbm/TPbu? 35 39 50.8  
COVERED SLOPE. SMALL ±17' 93 02 0.3  
SS UNIT ABOVE

(681) JUST ABOVE 1ST SS 35 39 46.1  
UNIT. ABOVE TPbm? ±21' 93 02 28.2

(682) BASE OF 2<sup>ND</sup> SS 35 39 44.1  
UNIT ABOVE TPbm. ±23' 93 03 9.5

(683) TOP OF 3<sup>RD</sup> SS 35 39 45.1  
UNIT ON ROAD ±16' 93 03 24.6

STILL HOLLOW TRAIL 2-16-05  
TPbc/TPhp

(684) CONTACT: TPbm/TPbu 35 38 50.9  
COVERED CONTACT. TPbc ±25' 93 05 27.6  
LOOKS LIKE TPbc

(685) CONTACT: TPbm/TPbu 35 38 49.1  
COVERED ON TRAIL ±19' 93 05 28.8  
TPhp/TPbc

(686) BASE OF 1ST SS UNIT 35 38 42.5  
ABOVE TPbm. MAYBE ±25' 93 05 28.8  
SLIGHTLY HIGHER



Location STILL HOLLOW TRAIL Date 2-16-05Project / Client STATEMAP 2004-2005

(687) TOP OF 1 <sup>ST</sup> SS UNIT COVERED ON TRAIL	±25'	35 38 40.9 93 05 24.0
(688) TOP OF 2 <sup>ND</sup> SS UNIT ABOVE IPbm. COVERED	±19'	35 38 39.6 93 05 8.4
(689) BASE OF 3 <sup>RD</sup> SS UNIT ABOVE IPbm. TOOK (2) SAMPLES	±25'	35 38 38.0 93 04 55.6
(690) CONTACT: P <sub>hc</sub> /P <sub>hp</sub> GOOD BLUFF(S) ABOVE US. FOSSILIFEROUS	±19'	35 37 44.4 93 06 59.1
(691) CONTACT: P <sub>hp</sub> /P <sub>bl</sub> GOOD INTER-BEDDED SS/SHALE ABOVE	±14'	35 37 48.5 93 06 58.5
(692) CONTACT: P <sub>bl</sub> /IPbm SS BLUFF ABOVE NOT VERY THICK	±17'	35 37 52.9 93 06 51.4
(693) CONTACT: IPbm/IPbu COVERED CONTACT	±17'	35 37 54.4 93 06 47.5

Location STILL HOLLOW TRAIL Date 2-16-05Project / Client STATEMAP 2004-2005

Scale

(694) TOP OF 1 <sup>ST</sup> SS UNIT ABOVE IPbm ON TRAIL	±22'	35 38 41.4 93 06 33.2
(695) CONTACT: IPbm/IPbu GOOD BLUFF BELOW, SAME ELEV. ACROSS DRAINAGE	±15'	35 38 34.2 93 05 43.0
(696) BASE OF 1 <sup>ST</sup> SS ABOVE IPbm. ON TRAIL	±18'	35 38 25.7 93 05 40.7
(697) TOP OF 2 <sup>ND</sup> SS UNIT ABOVE THE IPbm	±18'	35 38 1.5 93 05 44.7
OFF SULPHUR RD 2-17-05		
(698) CONTACT: IPbm/IPbu GOOD BLUFF BELOW	±18'	35 40 52.6 93 03 55.0
(699) BASE OF 1 <sup>ST</sup> SS UNIT ABOVE IPbm. X-BEDDED	±22'	35 41 7.4 93 03 54.1
(700) TOP OF SS UNIT ABOVE THE IPbm, ANOTHER ABOVE	±19'	35 41 30.1 93 03 58.1
(701) CONTACT: IPbm/IPbu GOOD BLUFF IN DRAINAGE	±19'	35 41 4.3 93 03 6.0
(702) CONTACT: IPbm/IPbu COVERED CONTACT. ROCKS V. FRACTURED	±27'	35 40 53.8 93 02 8.8

Location OFF SULPHUR RD Date 2-17-05

Project / Client STATEMAP 2004-2005

(703) SS UNIT ON HILLSIDE 35 40 48.0  
 VERY COVERED. PbM OR ±25' 93 02 55.8  
 1<sup>ST</sup> ABOVE?

(704) SS IN DRAINAGE PASS. 35 40 41.5  
 SS ABOVE PbM, FLAT-LYING ±22' 93 02 43.8  
 JOINTS: 10°W, 25°W, 60°W, 60°E

(705) SS IN DRAINAGE 35 40 32.6  
 DIPPING? 1<sup>ST</sup> SS ABOVE ±18' 93 02 26.8  
 PbM? N80°E, 8°N

(706) TOP OF SS UNIT. PbM? 35 40 26.7  
 LOOKS DIPPING BELOW FAULT? ±17' 93 02 16.3

(707) SS UNIT ABOVE THE PbM 35 40 34.5  
 BROKEN BUT CONTINUOUS ±25' 93 02 13.1

(708) TOP 2<sup>ND</sup> SS UNIT 35 40 46.5  
 ABOVE PbM ON SULPHUR RD ±10' 93 02 18.1

(709) CONTACT: PbM/PbU 35 40 26.4  
 ON RD. GOOD BLUFF 93 01 23.9  
 ACROSS DRAINAGE

Location SULPHUR RD Date 2-17-05

Project / Client STATEMAP 2004-2005

Scale

(710) GOOD SS BELOW RD 35 40 8.6  
 PbC/PbP CONTACT? ±16' 93 01 19.2

(711) PbC/PbP? SS ABOVE 35 40 7.5  
 \$ SHALE ABOVE THAT ±27' 93 01 17.7

BOYO CEM. RD 2/27/05

(712) POSSIBLE TOP OF PbM 35 40 48.4  
 GOOD SS IN DRAINAGE ±23' 93 01 22.2  
 CEPIDON DENDRON FOSSIL

(713) CONTACT: PbM/PbU 35 40 44.4  
 SMALL FAULT OR MONO- ±17' 93 01 26.8  
 CLINE? UPPER DIPPING  
 N5°W 10-15°E DIP

(714) 1<sup>ST</sup> SS ABOVE PbM? 35 40 38.3  
 DIPPING TOWARD US? ±20' 93 01 21.8  
 LOOSE GOOD LEDGE AFTER  
 DRAINAGE

(715) CONTACT: PbM/PbU 35 40 36.6  
 GOOD BLUFF BELOW ±20' ±22' 93 01 18.1

(716) GOOD 25' THICK SS 35 40 36.8  
 X-BEDDED - LOTS OF IRON ±16' 93 01 14.7  
 GOOD BLUFF ABOVE US  
 TOO?

Location BOYO CEM. RD Date 2/22/05  
 Project / Client STATEMAP 2004-2005

(717) THIN BEDDED SS IN RD  
 FLAT AREA ON TOP, 2<sup>ND</sup> SS 120' 35 41 10.7  
 93 01 33.0  
 NOT V. THICK

(718) TOP OF IPbm?  
 COVERED SLOPE. SS IN 123' 35 4 33.4  
 CREEK BELOW 93 1 43.4

N FORK ILLINOIS 2/22/05  
 BOYO TRAIL

(719) GOOD SS UNIT BELOW 117' 35 41 47.1  
 IN DRAINAGE. IPbm OR ATOKAN? 93 02 29.1

(720) TOP OF GOOD SS UNIT 35 41 10.8  
 LOOKS LIKE IPbm. FLAT-LYING 113' 93 01 3.9  
 JUST SAW A BABY OWL

(721) TOP OF SAME SS UNIT 35 41 4.8  
 1<sup>ST</sup> SS UNIT ABOVE IPbm? 113' 93 00 55.6  
 SS ACROSS DRAINAGE

Location HWY 7 NORTH Date 2/23/05  
 Project / Client STATEMAP 2004-2005

Scale

(722) DIPPING SS ALONG 121' 35 41 7.3  
 RD. N75°E, 6°SSE 93 05 59.4

(723) SS UNIT ABOVE IPbm 35 38 36.8  
 W/ SLIGHT DIP 120' 93 04 8.5  
 E/W, 5°S

(724) SAME SS UNIT 35 38 25.3  
 DIPPING? E/W, 5°N 125' 93 04 10.7

VICTOR ROAD

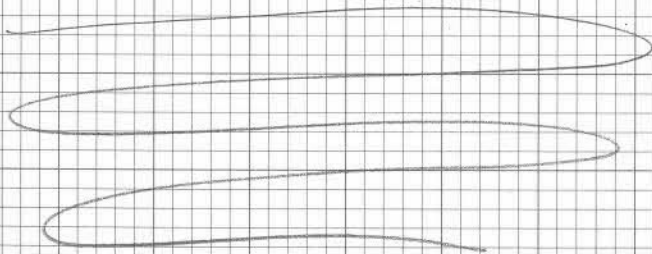
(725) 1<sup>ST</sup> SS UNIT GOING 119' 35 39 15.4  
 DOWN ROAD. SLIGHT DIP? 93 01 15.8

(726) BASE OF ANOTHER SS 35 38 42.9  
 UNIT ALONG RD. SHALE 114' 93 00 27.3  
 BELOW CORNER

TREADWELL HOLLOW ROAD

(727) CONTACT: IPbm/IPbu 121' 35 39 24.2  
 COVERED SLOPE. RX V. BROKEN 93 06 7.4

(728) TOP OF A SS UNIT 35 40 5.0  
 ON OLD FS ROAD 119' 92 58 31.2



Location FREEMAN SPRINGS RD Date 2/24/05Project / Client STATEMAP 2004-2005TURNAIKE POWDER MAG

(729) TOP OF SS UNIT CONTACT: Pbm/Pbu?	±21'	35 40 44.4 93 03 36.1
(730) TOP OF SS UNIT JUST ABOVE THE CREEK. NOT A GOOD CONTACT, Pbm?	±22'	35 40 21.4 93 03 24.2
(731) TOP OF SS UNIT HERE ↓ ACROSS DRAINAGE. POSSIBLE SS BELOW Pbm?	±19'	35 40 34.1 93 03 7.1
(732) ANOTHER SS UNIT JUST ABOVE RD. NOT V. THICK	±19'	35 40 28.5 93 03 57.0
(733) 2 <sup>ND</sup> SS UNIT ABOVE THE Pbm. COVERED SLOPE	±18'	35 40 26.6 93 04 7.7
(734) SS BELOW IN DRAINAGE BASE OF Pbm? COVERED SLOPE ABOVE	±26'	35 40 16.0 93 02 57.0
(735) CONTACT: Pbm/Pbu COVERED SLOPE. CONTACT SLIGHTLY HIGHER?	±15'	35 40 13.7 93 02 52.8

Location FREEMAN SPRINGS RD Date 2/24/05Project / Client STATEMAP 2004-2005

Scale

(736) STEEP SLOPE BELOW US. TOP OF Pbm? COVERED	±20'	35 40 0.0 93 02 15.1
(737) SS IN DRAINAGE. PARTLY INTERBEDDED, FLAT-LYING	±25'	35 39 57.2 93 02 25.3
(738) SMALL SS LEDGE BELOW SS JUST OFF RD. UNDER 1400'	±18'	35 39 45.2 93 02 28.5
(739) CONTACT: Pbm/Pbu SLIGHTLY HIGHER. ROCK ON EAST SIDE, LS ON WEST. FAULT HERE?	±23'	35 39 45.5 93 01 8.6
(740) SS ALONG OLD RD EITHER 1 <sup>ST</sup> ABOVE Pbm OR TOP OF Pbm.	±22'	35 39 41.9 93 01 12.1
(741) SS UNIT NOT VERY THICK. BARELY VISIBLE TOP OF 1 <sup>ST</sup> SS	±20'	35 39 35.2 93 01 5.3
(742) TOP OF A SS UNIT Pbm/Pbu? COVERED SLOPE	±20'	35 38 37.2 93 01 17.8
(743) CONTACT: Pbm/Pbu CONTACT SLIGHTLY HIGHER LOTS OF SS FLOAT	±14'	35 38 33.8 93 01 26.4

Location FREEMAN SPRINGS RD Date 2/24/05Project / Client STATEMAP 2004-2005

(744) TOP OF SS UNIT ALONG RD. Pbm/IPbu?	±15'	35 38 57.1 93 01 24.8
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(745) ANOTHER THIN SS JUST ABOVE RD. 1ST ABOVE Pbm?	±18'	35 39 3.5 93 01 20.7
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BOYD CEM. RD 2/25/05

(746) CONTACT: Pbm/IPbu? COVERED SLOPE. GOOD SS	±25'	35 41 51.7 93 01 0.7
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(747) GOOD SS ABOVE & BELOW. Pbm/IPbu OR POSSIBLE Phc. LOWER THAN PEDESTALS	±25'	35 42 9.0 93 01 9.1
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(748) TOP OF Pbm? MATCHES TOP OF PREVIOUS BLUFF. NOT V. THICK	±25'	35 42 1.9 93 01 6.1
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(749) CONTACT: Pbi/Pbm? COVERED ON RD. FAULT SOUTH OF HERE	±19'	35 43 14.1 92 59 13.7
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Location BOYO ROAD Date 2/25/05Project / Client STATEMAP 2004-2005

Scale

(750) SMALL SS LEDGE DIPPING ON HWY 16. N45°E, 5°SE	±15'	35 42 58.5 92 58 32.6
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(751) SS/SHALE DIPPING ALONG SIDE HWY. E/W, 4°N JOINTS: N/S, N50°E	±20'	35 42 18.5 92 58 53.3
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DYAL ROAD 2/28/05

(752) BASE OF SS UNIT ON RD ABOVE Pbm. SUNNY	±27'	35 40 58.6 92 59 7.1
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(753) CONTACT: Pbm/IPbu GOOD SS IN DRAINAGE COVERED ON ROAD	±27'	35 40 2.8 93 00 33.8
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(754) CONTACT: Pbm/IPbu COVERED ON ROAD	±22'	35 39 59.1 93 00 50.8
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(755) CONTACT: Pbm/IPbu? COVERED & HARD TO TELL LOSING Pbm	±24'	35 40 4.8 93 00 58.0
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(756) SS BLOCKS ON HILL Pbm OR 1ST ABOVE? V. WINDY & COLD	±28'	35 40 9.9 93 00 57.0
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Location DYAL ROAD Date 2/28/05Project / Client STATEMAP 2004-2005

(757) BROKEN SS IN DRAINAGE	35 40 21.8
Pbm/Pbu? SAME ELEV. ACROSS DRAINAGE	+20' 93 00 59.6

(758) GOOD SS ON HILLSIDE	35 40 33.2
Pbm/Pbu MIGHT BE A LITTLE LOWER	+20' 93 00 43.1

(759) CONTACT: Pbm/Pbu	35 40 28.2
CONTACT SLIGHTLY LOWER SS BLOCKS HERE	+15' 93 00 54.2

(760) SS DIPPING IN DRAINAGE	35 40 35.5
INTER-BEDED SS/SHALE N85°W, 10°N	+20' 92 59 18.8
JOINTS: 60°W, 45°W, 50°E, 70°E	

(761) SS JUST ABOVE CREEK	35 40 19.3
APPEARS TO HAVE SLIGHT DIP N55°W, 2°N	+20' 92 59 32.8

Location PAYNE HOLLOW Date 3/1/05Project / Client STATEMAP 2004-2005

Scale

(762) GOOD SS ABOVE IN DRAINAGE. SNOWY TODAY	35 38 24.5
	+25' 93 01 58.3

(763) CONTACT: Pbm/Pbu?	35 38 44.2
COVERED SLOPE, GOOD SS BELOW	+21' 93 02 51.3

(764) FIRST SS UNIT ABOVE Pbm ON OLD RD. COVERED	35 38 37.8
	+21' 93 02 51.3

(765) TOP OF ANOTHER SS UNIT. PBM OR ATOKAN	35 38 35.8
	+20' 93 02 9.1

(766) CONTACT: Pbm/Pbu GOOD BLUFF BELOW	35 38 17.8
	+24' 93 00 37.3

(767) CONTACT: Pbm/Pbu GOOD BLUFF BELOW. CONTACT MAYBE LOWER	35 38 01.4
	+15' 93 01 35.3

(768) TOP OF 1ST SS UNIT ABOVE Pbm. COVERED ON ROAD	35 38 61
	+15' 93 01 52.5

(769) SMALL SS PACKAGE ON RD ABOVE Pbm	35 38 19.6
	+20' 93 02 10.1

(770) SS UNIT JUST ABOVE THE RD. FAIRLY THICK	35 38 19.7
	+24' 93 02 52.4



Location PAYNE HOLLOW Date 3/1/05  
 Project / Client STATEMAP 2004-2005

(771) SS UNIT ON THE ROAD 35 38 0.2  
 DIRTIER THAN THOSE BELOW 93 83 55.1  
 TOOK A SAMPLE ±19'

HIDEOUT HOLLOW 3/7/05

(772) GOOD SS IN DRAINAGE 35 44 28.1  
 & ABOVE. CALCAREOUS ±17' 92 59 33.4

(773) INTER-BEDDED SS/SHALE 35 44 44.1  
 IN CREEK & ABOVE. Pb<sub>w</sub>? ±16' 92 59 36.4  
 JOINTS: N/S

(774) SANDY SHALE DIPPING 35 44 37.0  
 IN CREEK. N80°E, 2°N ±19' 92 59 35.5  
 JOINTS: 65°E, 25°W

(775) TOP OF SS UNIT IN 35 44 21.8  
 CREEK. APPROX 10' THICK ±25' 92 59 24.5

(776) GOES STRAIGHT FROM 35 45 0.3  
 SS TO SHALE ALONG RD ±19' 93 03 32.8

Location NORWIN HOLLOW Date 3/8/05  
 Project / Client STATEMAP 2004-2005

Scale

(777) CONTACT: Pb<sub>m</sub>/Pb<sub>w</sub> 35 37 58.4  
 SS IN DRAINAGE BELOW ±25' 93 02 48.9  
 SS LEDGES ABOVE

(778) CONTACT: Pb<sub>m</sub>/Pb<sub>w</sub> 35 37 55.1  
 SS IN DRAINAGE BELOW ±18' 93 02 35.5

(779) TOP OF 1<sup>ST</sup> SS UNIT 35 37 50.1  
 ABOVE Pb<sub>m</sub>. FAIRLY ±21' 93 02 47.8  
 THICK IN PLACES

(780) BASE OF 2<sup>ND</sup> SS 35 37 49.8  
 UNIT ABOVE Pb<sub>m</sub>. NOT ±24' 93 03 10.9  
 AS THICK AS 1<sup>ST</sup>

(781) 3<sup>RD</sup> SS UNIT ABOVE 35 37 46.3  
 Pb<sub>m</sub>. THINNER THAN OTHERS ±18' 93 03 15.4

(782) CONTACT: Pb<sub>m</sub>/Pb<sub>w</sub> 35 37 39.8  
 COVERED SLOPE GOOD BLUFF ±19' 93 01 1.3  
 ACROSS DRAINAGE

(783) CONTACT: Pb<sub>m</sub>/Pb<sub>w</sub> 35 37 28.0  
 COVERED ON OLD RD. GOOD ±20' 93 00 55.6  
 SS IN DRAINAGE

(784) INTER-BEDDED SS/SHALE 35 37 18.5  
 IN & ABOVE CREEK ±20' 93 00 21.4  
 LOOK FLAT-LYING

Location NORWIN HOLLOW Date 3/8/05Project / Client STATEMAP 2004-2005

(785) CONTACT: P <sub>hp</sub> / P <sub>bl</sub> ?		35 37 25.2
GOOD SS BELOW IN ROAD	±21'	93 00 41.8

(786) CONTACT: P <sub>bl</sub> / P <sub>bm</sub> ?		35 37 27.2
GOOD BLUFF ABOVE, NOT FAR ABOVE P <sub>hp</sub>	±21'	93 00 47.5

(787) SMALL SS UNIT ABOVE THE P <sub>bm</sub> ON THE RD	±21'	35 37 30.6 93 01 13.7
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(788) 2 <sup>nd</sup> SS UNIT ABOVE P <sub>bm</sub> , NOT V. THICK. COVERED ON ROAD	±22'	35 37 24.9 93 01 22.4
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(789) GOOD SS/SHALE BLUFF CALCAREOUS, P <sub>hp</sub> or P <sub>hc</sub> ?	±28'	35 38. 61 93 00 33.3
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(790) GOOD SS/SHALE BLUFF SHOULD BE P <sub>hc</sub>	±15'	35 38 17.9 92 59 56.2
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(791) GOOD BLUFF LOOKS LIKE P <sub>bl</sub> / P <sub>bm</sub>		35 38 20.2
P <sub>hp</sub> . MAYBE P <sub>ws</sub> ?	±22'	92 59 37.1

(792) GOOD SS BLUFF MAYBE P <sub>ws</sub> ?	±25'	35 38 24.8 92 59 13.7
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Location NEAR FALLING WATER Date 3/9/05Project / Client STATEMAP 2004-2005

Scale

(793) MASSIVE SS IN CREEK		35 43 31.8
P <sub>bm</sub> OR 2 <sup>ST</sup> ABOVE		92 57 25.9

(794) THIN BEDDED SS DIPPIN ALONG RD. SS @ FALLING WATER PWS? W/SS ON 12 <sup>th</sup> ZONE	±24'	35 43 41.6 92 57 4.8
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(795) CONTACT: P <sub>bl</sub> / P <sub>bm</sub> ? MAYBE P <sub>ws</sub> ? LOOKS TO HAVE A SW DIP	±17'	35 42 54.6 92 57 14.8
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(796) CONTACT: P <sub>bm</sub> / P <sub>bl</sub> ? SS BELOW & ACROSS DRAINAGE. CLIFF	±24'	35 44 27.6 92 54 36.9
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## NORTH FORK RD

(797) POSSIBLE BASE OF P <sub>bm</sub> , COVERED CONTACT	±28'	35 36 17.8 93 00 10.8
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(798) CONTACT: P <sub>bm</sub> / P <sub>bl</sub> APPEARS LOWER IN EAST DRAINAGE	±22'	35 36 24.5 93 00 5.6
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(799) VERY SMALL SS UNIT ON RD. 1 <sup>ST</sup> ABOVE P <sub>bm</sub>	±16'	35 36 40.5 92 59 54.0
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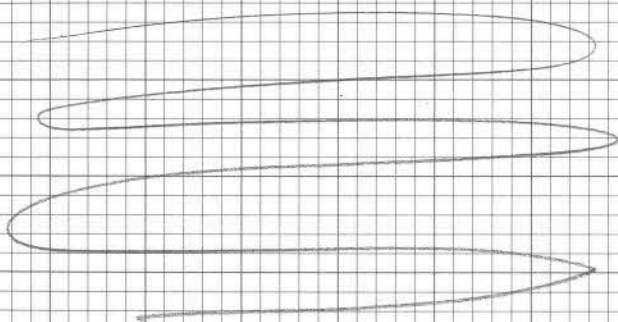
Location NEAR FALLING WATER Date 3/9/05Project / Client STATEMAP 2004-2005

(800) SS UNIT ON RD ABOVE THE Pbm. 3RD UNIT?	±21'	38 38 21.7 92 58 7.5
(801) BASE OF SMALL SS UNIT ON VICTOR ROAD	±18'	35 38 56.8 92 58 32.4
(802) CONTACT: Pbm/Pbn GOOD SS ON RD B BELOW	±19'	35 39 37.0 92 59 4.3
(803) CONTACT: Pbl/Pbm CONTACT COVERED, MAYBE SLIGHTLY HIGHER	±25'	35 38 47.4 92 59 50.8
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TRIB. TO CEDAR CREEK		3/10/05
(804) SS UNIT IN THE CREEK TOP OF THE PPh		35 41 28.2 93 00 2.4
(805) BASE OF SS UNIT ON RD. DOESNT LOOK LIKE TYPICAL PPh	±19'	35 41 35.4 93 00 19.3

Location BEAR CREEK Date 3/10/05Project / Client STATEMAP 2004-2005

Scale

(806) TOP OF FAIRLY THICK SS UNIT. LOOKS LIKE Pbm ±16' JOINTS: 35°W, N/S, E/W		35 42 11.6 93 00 21.5
(807) SS UNIT ON RD ABOVE CEDAR CREEK 1ST ABOVE Pbm?	±22'	35 41 50.8 93 00 11.2
(808) SS ABOVE & BELOW IN DRAINAGE X-BEDDED LOOKS LIKE Pbm	±22'	35 41 42.4 92 59 24.4
(809) GOOD SS DIPPING IN DRAINAGE. Pbm? N25°E, 5°ESE	±19'	35 42 26.4 92 59 36.4
(810) SS UNIT DIPPING SAME WAY APPEARS TO END HERE	±19'	35 42 28.0 92 59 41.1
(811) SS UNIT ON OLD RD 1ST ABOVE Pbm?	±23'	35 42 14.7 92 59 24.7



Location KNOB HOLLOW RD. Date 3/14/05Project / Client STATEMAP 2004-2005

(812) SS UNIT ON OLD RD ABOVE IPbm, NOT V. THICK	±17'	35 39 37 92 56 53.1
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(813) SMALL SS UNIT ABOVE IPbm. COVERED SLOPE	±19'	35 38 56.8 92 56 46.6
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(814) SLIGHTLY ABOVE 1200' IPbm SHOULD BE NEAR SANDY & COVERED BELOW	±15'	35 38 51.5 92 56 46.2
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(815) SS IN AND ABOVE CREEK THINNER BEDDED THAN TYPICAL IPbm. LAYER LOOKS LIKE RED IPbm TRILOBITES, CRINIDS, CORAL	±17'	35 38 46.4 92 56 34.5
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JOINTS:  
60°E, N/S, 35°W

(816) TOP OF GOOD SS IN CREEK LOOKS LIKE IPbm	±16'	35 38 54.0 92 56 24.8
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(817) GOOD SS IN CREEK GOOD BLUFF LOOKS LIKE IPbm	±17'	35 39 3.9 92 56 13.0
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Location KNOB HOLLOW RD Date 3/14/05Project / Client STATEMAP 2004-2005

Scale

(818) NE SS SEEN IN CREEK. LOTS OF FLINT	±14'	35 39 27.0 92 56 8.1
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(819) TOP OF SS UNIT (IPbm)? ON OLD RD, COVERED SLOPE	±20'	35 39 7.1 92 56 9.6
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(820) BASE OF 1ST SS ABOVE IPbm COVERED	±20'	35 39 10.4 93 56 14.0
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(821) SS UNIT ON RD ABOVE IPbm, GOOD OUTCROP	±21'	35 39 6.0 93 56 52.6
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(822) TOP OF 3RD SS UNIT. COVERED SLOPE	±14'	35 39 11.9 93 56 38.4
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EAST  
 Location NORTH OF BEN HUR Date 3/16/05  
 Project / Client STATEMAP 2004-2005

(835) DEAD END OFF FS 35 45 0.2  
 RD. NO Pbm SEEN ±20' 92 56 36.3

(836) GOOD BLUFF BELOW 35 44 52.2  
 DOESNT LOOK LIKE Pbm ±20' 92 56 23.1  
 CONTACT LOWER?

(837) INTER-BEDDED SS/SHALE 35 44 20.7  
 DOESNT LOOK LIKE Pbm ±18' 92 58 0.6

(838) POSSIBLE FAULT THRU 35 42 50.2  
 CR NEAR HERE, DEFORMATION ±22' 92 56 43.1  
 BANDS SEEN

(839) FAULT THRU HERE? 35 42 48.6  
 SS DIPPING IN CREEK ±17' 92 56 39.0

(840) SMALL FAULT THRU 35 42 51.8  
 DRAINAGE. NOT A LOT ±17' 92 56 33.8  
 OF DISPLACEMENT

N45°W STRIKE OF FAULT

N75°E, 20°S

JOINTS: 15°E, 65°E

Location NORTH OF BEN HUR Date 3/16/05  
 Project / Client STATEMAP 2004-2005

Scale

(841) FAULT COULD BE 35 42 50.7  
 GOING THRU HERE. RY ±16' 92 56 21.7  
 DIPPING ON BOTH SIDES

N65°W, 17°SW

N35°E, 15°SE

JOINT: 50°E

(842) SS APPEARS ALMOST 35 42 51.5  
 VERTICAL HERE. FAULT ±17' 92 56 38.8  
 TRENDING E/W

N85°W, 39°S JOINT: N/S

(843) SMALL LANDSLIDE 35 42 15.1  
 IN CREEK. INTER- ±22' 92 56 50.7  
 BEDDED SS/SHALE. SNOWING

(844) INTER-BEDDED SS/  
 SHALE IN CREEK FLAT ±19' 35 42 6.3  
 92 56 40.1

(845) SS LOOKS LIKE APEX 35 42 32.7  
 OF A SYNCLINE. ENS ±24' 92 57 9.0  
 ABRUPTLY ON BOTH ENDS





Location NORTH OF BEN AVE Date 3/16/05Project / Client STATEMAP 2004-2005

(846) SS IN CREEK BED W/ RIPPLE BEDS DIPPING?	±16'	35 42 33.6	92 57 291
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(847) SS/SHALE IN DRAINAGE DIPPING, COVERED SLOPE	±20'	35 42 50.8	92 57 48.8
N35W, 7°WSW			

(848) SS/SHALE ALONG CREEK FLAT LYING	±24'	35 42 48.5	92 57 54.0
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(849) GOOD SS IN DRAINAGE SHALE NEAR RD	±22'	35 42 48.2	92 57 34.1
N55W, 10°WSW			

JOINTS: 20°W, 50°E, 35°E

(850) GOOD SHALE BANK IN DRAINAGE	±17'	35 42 44.8	92 57 27.0
N20°E, 24°SW			

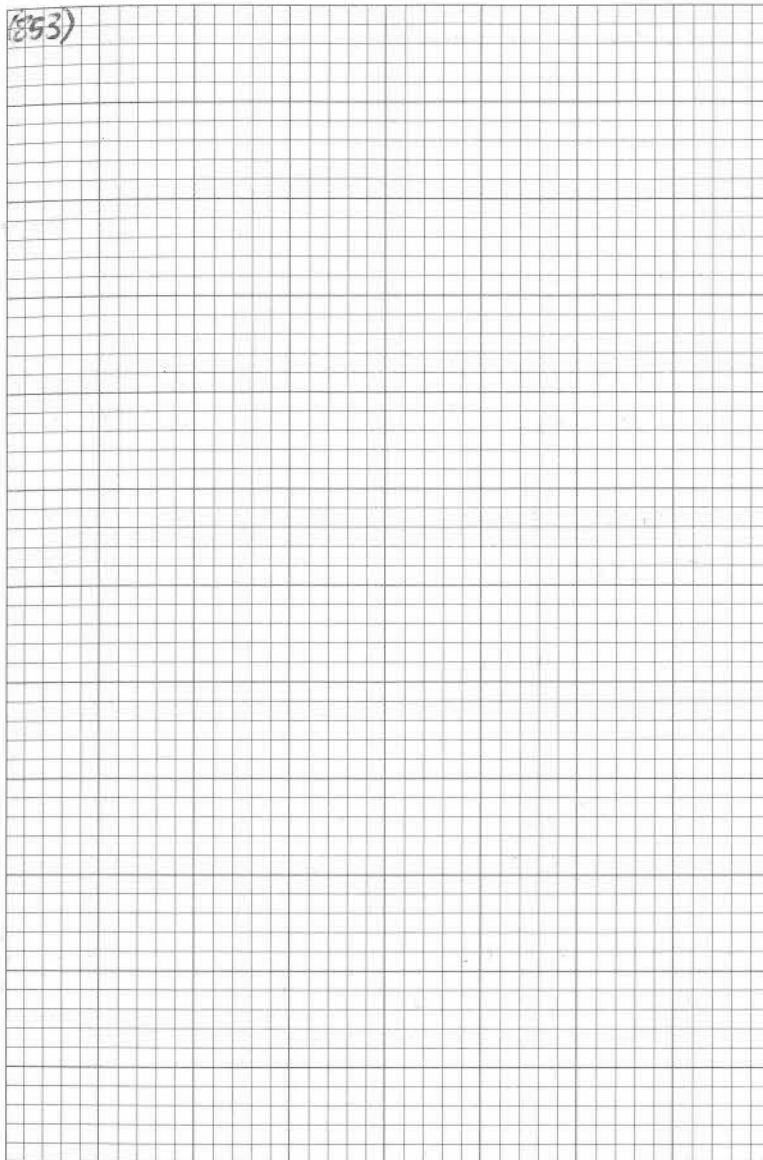
(851) TOP OF A SANDY SHALE STEEP SLOPE IPHC OR IPBL?	±21'	35 44 31.5	92 55 52.2
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(852) POSSIBLE FAULT ON RD SHALE ON NORTH, SS ON SOUTH	±22'	35 43 49.6	92 56 19.6
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Location \_\_\_\_\_ Date \_\_\_\_\_

Project / Client \_\_\_\_\_

Scale \_\_\_\_\_





Location SMYRNA ROAD Date 3/21/05Project / Client STATEMAP 2004-2005

(859) BASE OF A SS UNIT ALONG THE RD, COVERED SLOPE, TOOK SAMPLE	±19'	35 38 49.4 92 55 43.8
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(860) TOP OF SS UNIT COVERED ON ROAD	±19'	35 38 49.7 92 55 50.8
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(861) BASE OF ANOTHER SMALL SS UNIT ON RD	±24'	35 38 38.8 92 55 47.5
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(862) TOP OF A SMALL SS UNIT BELOW ROAD	±22'	35 38 19.7 92 56 7.2
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(863) TOP OF A SMALL SS UNIT ON RD. - IPbm?	±19'	35 38 44.4 92 55 29.4
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(864) BASE OF IPbm? SS APPEARS FAIRLY THICK	±17'	35 38 59.5 92 55 25.3
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(865) BASE OF GOOD SS ABOVE RD IPhp OR IPbm?	±18'	35 39 20.8 92 55 49.7
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Location SMYRNA ROAD Date 3/21/05Project / Client STATEMAP 2004-2005

Scale

(866) BASE OF THIN BEDDED SS UNIT ABOVE THE ROAD	±17'	35 39 15.3 92 55 46.1
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(867) BASE OF ANOTHER SMALL SS UNIT ON RD N100E, 14°W	±18'	35 39 12.4 92 54 35.3
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(868) SS ALONG RD APPEARS DIPPING, LANDSLIDE? N45°E, 18°SE	±17'	35 39 12.4 92 54 26.9
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(869) BASE OF A SS UNIT ON RD. VERY BROKEN UP	±17'	35 39 19.3 92 54 24.4
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OFF TRAIL RD ON RD 3/22/05

(870) SS ABOVE AND BELOW IN DRAINAGE. LOOKS KINDA SHALEY AND CALCAREOUS	±29'	35 40 52.2 92 54 50.4
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(871) GOOD SS LAYER ON SIDE OF HILL. GOOD BONWORK IN FLOAT	±25'	35 41 03.2 92 54 51.4
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Location MIDDLE FORK ILLINOIS Date 3/22/05

Project/Client STATEMAP 2004-2005

NEAR DAVE MILLSAPS HOLLOW

(872) GOOD SS/SHALE BLUFF  
NEAR RIVER, SLIGHTLY  
CALCAREOUS, GOOD TRACE 123'  
FOSSILS, TOOK PICTURES. (Pbp)?

35 40 54.6
92 54 37.4

(873) JOINTED FLAGGY  
SS IN DRAINAGE ±27'  
JOINT: N550E (560)

35 41 21.8
92 54 57.3

~~(874) CONTACT: Pbc/Pbm  
MAKE VT. SILE SANDY~~

(874) BASE OF SMALL SS  
UNIT ON OLD ROAD ±19'

35 41 14.2
92 54 53.5

(875) BASE OF SS ON RD.  
COVERED SLOPE AND HARD ±21'  
TO TELL BUT MAYBE Pbm

35 41 7.2
92 54 56.6

(876) CONTACT: Pbm/Pbu'  
COVERED ON ROAD ±21'

35 41 03.2
92 53 1.1

Location ERWIN ROAD Date 3/22/05

Project/Client STATEMAP 2004-2005

Scale

(877) 1ST SS UNIT  
ABOVE Pbm THIN ±20'  
UNIT AND COVERED

35 40 58.4
92 55 6.4

(878) 2ND SS UNIT ABOVE  
Pbm? EITHER SLUMPING ±21'  
OR HAS A SLIGHT DIP

35 40 55.6
92 55 8.1

(879) GOOD SS/SHALE BANK  
BELOW ROAD, GREAT VIEW ±20'  
OF THE RIVER, TOOK PIX

35 40 43.6
92 55 5.3

REEVES RD

(880) CONTACT: Pbc/Pbm  
CONTACT COVERED ON RD ±15'  
MIGHT BE SLIGHTLY LOWER

35 41 46.4
92 54 27.6

(881) CONTACT: Pbm/Pbu  
COVERED SLOPE ON ROAD ±24'

35 41 54.5
92 54 22.7

(882) TOP OF A SS UNIT  
Pbm MAYBE LOWER ±24'  
RAINING NOW

35 42 28.6
92 53 49.8

(883) SS UNIT ON ROAD  
ABOVE Pbm. SLIGHT DIP? ±24'

35 42 30.3
92 54 6.0

Location REEVES ROAD Date 3/22/05

Project / Client STATEMAP 2004-2005

(784) SMALL SS UNIT ON  
ROAD. SLIGHT DIP 117' 35 42 53.3  
92 54 10.0  
N70°W, 5°N RIPPLE BEDS, THIN BEDDED

(785) THIN BEDDED SHALEY  
SS UNIT ABOVE RD. ±20' 85 43 15.4  
92 54 3.0  
NOT VERY THICK

(786) GOOD SS UNIT ON  
HWY 16. GOOD SHALE ±21' 35 39 41.9  
92 57 54.9  
BELOW. TOOK SAMPLES

(787) SHALE ON SIDE OF  
RD HAS A SLIGHT DIP ±15' 35 40 36.6  
92 58 27.7  
N80°W, 40°E HWY 16

DAVE MILLSAPS HOLLOW 3/23/05

(788) BASE OF SS UNIT  
COVERED ON OLD ROAD ±24' 35 40 36.7  
92 54 9.2

Location DAVE MILLSAPS HOLLOW Date 3/23/05

Project / Client STATEMAP 2004-2005

Scale

(789) TOP OF SAME SS  
UNIT, ALMOST TO 124' 85 40 32.3  
THIN TO EVEN MAP 92 54 7.7

(790) ANOTHER SMALL  
SS UNIT. COVERED ±26' 35 40 33.7  
92 54 5.4

(791) SMALL SS UNIT BELOW  
US. PART OF THE PBL? ±21' 35 40 40.8  
DOESNT LOOK V. THICK 92 54 9.1

(792) CONTACT: PBL / PBLm?  
FAIRLY THICK, THICK ±14' 35 40 46.1  
BEDDED SS. COVERED SLOPE 92 54 7.6

(793) CONTACT: PBL / PBLm?  
COVERED SLOPE ON RD ±19' 35 40 38.5  
NOT ALOT OF SS SHOWING 92 54 2.7

(794) GOOD BLUFF ABOVE US  
ON OTHER SIDE OF CREEK ±26' 35 41 40.2  
THIN-BEDDED THIN BEDDED? 92 54 10.2

(795) GOOD SS UNIT ON OLD  
RD. MATCHES UP W/ SS ±18' 35 41 31.7  
ACROSS BRAWARE 92 54 7.4

Location BROGDEN HOLLOW Date 3/23/05Project / Client STATEMAP 2004-2005

(896) ANOTHER THIN SS UNIT ON OLD ROAD, INTER-BEDDED	±19'	35 41 27.4 92 54 2.3
(897) SMALL SS LEDEGE ABOVE OLD ROAD	±21'	35 41 10.1 92 54 17.4
(898) TOP OF THIN BEDDED SS IN DRAINAGE GOOD WATERFALL	±21'	35 41 57.4 92 54 4.0
(899) SS FLOAT ABOVE THE RD. LANDSLIDE?	±21'	35 40 45.6 92 53 55.3
(900) SMALL SS LEDEGE ABOVE THE ROAD	±21'	35 40 48.1 92 53 30.3
(901) SMALL SS UNIT ON THE RD COVERED SLOPE	±17'	35 40 43.3 92 52 48.8
(902) SMALL SS UNIT ON OLD SMYRNA CEM. RD	±16'	35 41 25.7 92 53 12.2

Location NEELY HOLLOW Date 3/23/05Project / Client STATEMAP 2004-2005

Scale

(903) TOP OF SS UNIT IN DRAINAGE, COVERED SLOPE. LOOKS LIKE IT MAY DIP WEST	±17'	35 42 20.4 92 52 50.6
(904) SS PACKAGE BELOW RD. COVERED SLOPE	±20'	35 42 2.7 92 52 49.2
(905) TOP OF GOOD SS UNIT IN DRAINAGE. SLIGHT DIP?	±17'	35 41 56.0 92 52 40.1
MORRIS RDG RD 3/24/05		
(906) CONTACT: PBM / PBM? GOOD SS BELOW. APPEARS LOWER THAN @ PEDESTALS	±10'	35 42 56.4 93 00 44.0
(907) SS IN DRAINAGE ANOTHER SMALL LEDEGE JUST ABOVE US TOO HARD TO TELL WHAT IS THE ACTUAL TOP	±24'	35 43 11.7 93 00 47.1
(908) TOP OF SS UNIT ON MORRIS RIDGE ROAD TOP OF PBM? COVERED	±22'	35 43 11.3 93 00 30.5

Location MILL HOLLOW Date 3/24/05Project / Client STATEMAP 2004-2005

(909) THIN BEDDED SS APPEARS TO BE DIPPING IN THE CREEK N85°E, 13°N	±12'	35 42 41.9 92 53 16.6 (1027)
(910) SS UNIT IN DRAINAGE LOOKS LIKE GOOD BLACK SHALE ABOVE	±12'	35 42 46.5 92 53 15.3 (1051)
(911) THIN SS UNIT IN DRAINAGE V. JOINTED JOINTS: 45°E, 10°E, 60°E	±25'	35 42 58.1 92 53 21.5 (1105)
(912) SHALE BANK ABOVE THE CREEK MAKES A PRETTY STEEP SLOPE	±21'	35 43 18.7 92 53 31.3 (1130)
(913) SS UNIT JUST ABOVE TRAIL APPEARS TO HAVE SLIGHT N OR NE DIP	±24'	35 42 35.0 92 53 32.1 (1203)

Location PACK HOLLOW Date 3/28/05Project / Client STATEMAP 2004-2005

Scale

(914) SS UNIT BELOW US ON HILLSIDE, NOT A GOOD BLUFF OR CONTACT PWS OR P6m? PWS? (1258)	±16'	35 39 58.5 92 53 58.5 (1258)
<del>(915) SHALE SS UNIT BELOW US NOT V. THICK AND V. BROKEN, COVERED</del>	<del>±16'</del>	<del>35 39 58.7 92 53 50.5 (1314)</del>
(915) SS LEDGES ABOVE AND BELOW US, APPEARS MORE THIN BEDDED THAN REG. FROM. SUNNY AND WARM TODAY (1333)	±23'	35 39 49.2 92 53 26.7 (1333)
(916) SS IN AND ABOVE DRAINAGE APPEARS FAIRLY THICK	±21'	35 40 14.2 92 53 25.2 (1402)
(917) GOOD BLUFF ACROSS THE DRAINAGE @ APPROX. THIS SAME ELEVATION COVERED, STEEP SLOPE HERE (PWS/P6m?) (1423)	±19'	35 40 31.5 92 53 23.8 (1423)
(918) TOP OF A FAULT THICK SS UNIT IN DRAINAGE COVERED CONTACT (1500)	±19'	35 40 17.0 92 53 48.0 (1500)
(919) CONTACT: PWS / P6m? BROKEN UP, THICK BEDDED SS IN DRAINAGE (1518)	±15'	35 40 10.1 92 53 56.6 (1518)



Location MIDDLE FORK ILLINOIS Date 3/28/05Project / Client STATEMAP 2004-2005

(920) GOOD SS BLUFF @  
THE CREEK. LOOKS LIKE  
Pbc. GOOD SWIMMING  
HOLE. SILAS FELL IN

35 39 47.5

92 54 47.8

±15'

SETH ROAD

3/29/05

(921) FAIRLY THICK, MASSIVE  
SS UNIT IN DRAINAGE.  
POSSIBLE Pbm

35 37 40.7

92 55 21.8

±30'

(1024)

(922) CONTACT: Pbm / Pbu?  
COVERED SLOPE

35 37 45.4

92 55 18.8

±18'

(923) TOP OF SS UNIT IN  
DRAINAGE APPEARS MORE  
THIN BEDDED THAN REG. Pbm

35 37 50.5

92 55 12.3

±18'

(1042)

(924) THIN SS UNIT ABOVE  
TRAIL NOT V. THICK. THICK  
BEDDED THROUGH

35 37 30.3

92 55 9.3

±24'

(1101)

Location SETH ROAD Date 3/29/05Project / Client STATEMAP 2004-2005SMYRNA

Scale

(925) GOOD SS UNIT BELOW  
US IN DRAINAGE. MORE  
THIN BEDDED THAN Pbm?

\* 35 37 28.6

±21' 92 55 8.8

MIDDLE FORK ILLINOIS

(926) GOOD BLUFF ACROSS  
CREEK. LOOKS LIKE PWS.  
UP TO 40' IN PLACES

\* 35 36 48.5

±33' 92 55 27.4

(1149)

(927) GOOD EXPOSED  
SS JUST ABOVE THE  
CREEK. FORMS A  
GOOD BLUFF, BASE OF PWS?  
ALSO HAS FLAGGY WEATHERING & FOSSILS EVERYWHERE

# 35 37 3.3

±20' 92 55 31.8

(1201)

(928) SS ABOVE US ON  
HILLSIDE. POSSIBLE  
BASE OF Pbm? (COVERED)

\* 35 37 1.3

±20' 92 55 30.5

(1302)

(929) SS ABOVE & BELOW US  
APPEARS MORE THIN  
BEDDED. GOOD VIEW  
OF THE CREEK

+ 35 37 5.0

±21' 92 55 25.3

(716)

(950)

(930) TOP OF SS UNIT?  
THIN BEDDED SS w/  
GOOD VIEW

\* 35 37 8.3

±22' 92 55 19.1

(1151)

(1322)



Location SETH ROAD Date 3/29/05Project / Client STATEMAP 2004-2005

(931) GOOD SS IN DRAINAGE  
POSSIBLE TOP OF Pbm ±14' \* 35 37 15.6  
92 55 11.3

(932) TOP OF A THIN  
BEDDED SS UNIT GOOD ±22' \* 35 37 12.4  
BLUFF IN PLACES ±22' 92 55 0.2  
25'-30' THICK. ATOKAN?

(933) SMALL SS UNIT ABOVE  
THE ROAD. COVERED SLOPE ±25' 35 37 37.3  
APPEARS THIN-BEDDED 92 54 52.4

(934) CONTACT: Pbm/Pbu?  
SS UNIT COVERED AND ±21' 35 38 56.6  
BROKEN BELOW US 92 54 30.6  
(1452)

(935) CONTACT: Pbm/Pbu?  
LARGE BOULDERS & LOTS ±20' 35 39 1.0  
OF FLOAT COVERED SLOPE (16) 92 54 43.4  
CONTACT SLIGHTLY HIGHER? (151)

(936) BASE OF THW SS UNIT  
THW-MED. BEDDED. BLOCKY ±18' 35 38 42.8  
ATOKAN? FRESH: RED WX: GREY 92 54 30.6  
(1536)

Location MEYER BRANCH Date 3/30/05Project / Client STATEMAP 2004-2005SMYRNA VERY NICE TODAY Scale

(937) SHALE DIPPING IN  
DRAINAGE. LOOKS LIKE 35 37 47.1  
A FAULT SOUTH OF 92 53 4.4  
HERE? ±25' (1020)  
N36°E, 10°ESE  
JOINTS: N60°W, N5°W, 10°E, 80°E (100°E)  
(80°W)

(938) GOOD SHALE (ATOKAN)  
IN DRAINAGE. FAULT DOESN'T 35 37 54.2  
APPEAR 2 BE THRU HERE ±24' 92 53 05.2

(939) CALCAREOUS SS DIPPING  
HEAVILY IN CREEK. SAME ±24' 35 37 46.0  
UNIT APPEARS HIGHER ON 92 53 10.5  
THE EAST SIDE. FORMS (1047)  
A GOOD BLUFF. N60°W, 19°SW  
SS APPEARS TO TURN INTO THE  
SHALE UP THE CREEK

(940) FAULT MIGHT BE PASSING  
RIGHT THRU HERE 35 37 45.7  
±24' 92 53 10.5  
TREND: N42°W DEFORMATION BANDS  
JOINTS: N20°W, 50°E SLIGHTLY FOSSILIFEROUS

(941) POSSIBLE BASE OF  
Pbm ON THIS SIDE. CAN'T 35 37 46.0  
REALLY TELL ON OTHER ±25' 92 53 9.4  
(1147)

(942) TOP OF SS UNIT (Pbm)  
GOOD BLUFF BELOW ±21' 35 37 44.3  
92 53 7.9

Location MEYERS BRANCH Date 3/30/05Project / Client STATEMAP 2004-2005SMYRNA

(943) V. SMALL SS UNIT MAINLY COVERED. 1ST ABOVE Pbm?	±19'	35 37 38.1 92 52 58.6
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BROOKDEN HOLLOW

(944) GOOD SS UNIT BELOW ON BOTH SIDES OF THE HOLLOW. Pbm/Pbu?	±23'	35 41 13.7 92 53 23.2 (1319)
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(945) LOOKS LIKE THE TOP OF THE Pbm BUT MIGHT BE A UNIT JUST ABOVE	±21'	35 41 7.4 (1318) 92 53 5.3 (1350)
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(946) SS BELOW OLD RD V. BROKEN UP. CONTACT COVERED. ABOVE Pbm?	±20'	35 38 5.2 92 53 49.2 (1450)
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(947) CONTACT: Pbm/Pbu? GOOD BLUFF ACROSS HOLLOW COVERED HERE MORE, LOWER?	±22'	35 37 49.4 92 53 24.3 (1520)
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Location BAILEY COLE CREEK Date 3/31/05Project / Client STATEMAP 2004-2005

Scale

(948) TOP OF A GOOD SS UNIT. Pbm/Pbu? APPEARS THINNER BEDDED THAN TYPICAL Pbm. MIGHT HAVE A SLIGHT WEST DIP	±20'	35 44 24.5 92 55 7.9 (907)
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(949) DEFORMATION BANDS SEEN IN FLOAT SS ON TOP OF KNOB	±19'	35 44 22.1 92 55 7.4
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(950) TOP OF A THIN SS UNIT. BLUFF BELOW LOOKS TO SIMILAR & THIN BEDDED TO BE Pbm. Pbu MAYBE?	±24'	35 44 16.7 92 55 5.7 (1928)
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(951) TOP OF A THIN BEDDED SS UNIT. J. BROKEN UP	±13' (11)	35 43 52.0 92 55 9.3 (1519) (154)
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REEVES BRANCH

(952) GOOD SS BLUFF BELOW IN DRAINAGE (Pbm)? FLOAT ABOVE THIN GRAINED	±18'	35 42 39.4 92 54 54.0 (1026)
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(953) BASE OF GOOD SS IN DRAINAGE (Pbm)? JUST SAW A RATTLE SNAKE	±19'	35 42 51.2 92 54 39.0 (1048)
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(954) BASE OF SS UNIT. SLIGHT DIP IN DRAINAGE DEFORMATION BANDS (Pbm)? N60°W, 150°SW	±22'	35 42 45.1 92 54 43.2 (1105)
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Location REEVES BRANCH

Date 3/31/05

Project / Client STATEMAP

(955) V. SMALL SS UNIT  
ON RD, MED BEDDED  
15' ABOVE Pbm? ±22'

35	42	49.4
92	54	53.8

PEDESTAL RXS TRAIL

4/4/05

(956) DEFORMATION BANDS  
IN Pbm ON TRAIL ±20'

35	42	58.0
93	01	7.6

V. NICE TODAY

(957) CONTACT: Pbm/Pbm  
COVERED SLOPE, GOOD  
BLUFF BELOW ±30'

35	42	41.9
93	01	27.3

(1450)

(958) CONTACT: Pbm/Pbm  
COVERED SLOPE HERE, NO  
APPARENT FAULTS ±30'

35	42	35.6
93	01	45.1

(1450)

(959) CONTACT: Pbm/Pbm  
APPEARS TO BE DIPPING  
DOWN TOWARDS KINGS ±14'

35	43	6.2
73	01	32.9

(1500)

BLUFF. HEARD BACK WHERE WE CAME  
FROM. GOOD BLUFF HERE

Location

PEDESTAL RXS

Date 4/4/05

Project / Client

STATEMAP 2004-2005

Scale

(960) CONTACT: Pbm/Pbm  
APPEARS HIKED ACROSS ±18'

35	43	27.8
93	01	27.9

DRAINAGE MONOCLINE  
NEAR?

KNOB HOLLOW

4/5/05

(961) GOOD THIN BEDDED  
SS ABOVE AND BELOW  
LOOKS LIKE Pbm? ±22'

35	40	26.5
92	56	33.0

(1450)

(962) SS UNIT JUST ABOVE  
US. MIGHT BE BASE HERE  
LANGLINE AREA ±25'

35	40	28.7
92	56	20.1

(963) BASE OF THIN BEDDED  
SS UNIT. NOT V. THICK ±23'

35	40	28.2
92	56	11.2

(964) TOP OF A SS UNIT.  
COVERED CONTACT. LOOKS  
LIKE MORE SHALE BELOW ±18'

35	40	21.6
92	56	12.4

(1450)

(965) POSSIBLE BASE OF  
Pbm IN DRAINAGE. MAYBE ±20'

35	37	28.7
92	56	5.7

JOINT: NS-W Pbm/Pbm? (1450)

Location KNOB HOLLOW Date 4/5/05Project / Client STATEMAP 2004-2005VERY OVERCAST TODAY & NOT AS WARM

(966) MASSIVE BLOCKS OF SS ABOVE OLD ROAD	±20'	35 39 34.0 92 56 7.7
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LOTS OF FLOAT, COARSE  
GRAINED, QUARTZ PEBBLES

(967) TOP OF SS UNIT NOT V. THICK. SHALE ABOVE	±25'	35 39 38.5 92 56 8.8
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(1046)

(968) ANOTHER SMALL, THIN BEDDED SS UNIT. NOT V. THICK. BROKEN UP	±20'	35 39 48.6 92 56 7.9
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NEAR FALLING WATER

(969) NOT ENOUGH ROCK IN PLACE TO SEE A FAULT	±19'	35 41 54.0 92 57 22.5
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LOTS OF SS AND SHALE

(1310)

BOYA CEM. ROAD

(970) SS DIPPING IN DRAINAGE N70°E, 7°SSE	±16'	35 42 37.6 92 57 42.9
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(1424)

Location BOYA CEMETERY RD Date 4/5/05Project / Client STATEMAP 2004-2005Scale 1:300

(971) SS SEEMS TO FLATTEN OUT HERE, GOOD DIP SOUTH	±25'	35 43 4.8 92 57 48.2
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JOINTS: N/S; 60°E OF HERE

(1424)

(972) THIN BEDDED SS FLAT LYING HERE. IPDM?	±23'	35 43 6.4 92 59 50.4
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(1440)

(973) SS APPEARS TO BE DIPPING. MIGHT BE * BEDDING? IPDM?	±20'	35 42 44.0 92 59 58.4
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(1500)

N25°E, 6°SE

(974) SS APPEARS TO HAVE A SLIGHT DIP. NO DEFORM.	±20'	35 42 47.7 93 00 4.4
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BANES SEEN

THIN BEDDED

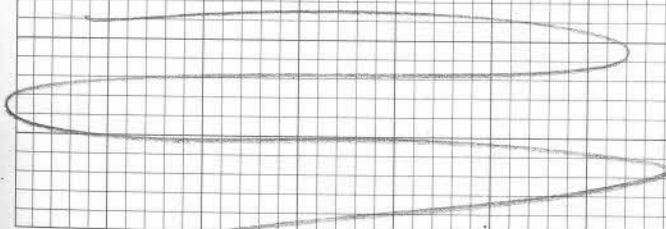
N10°E, 5°E

JOINT: N/S

(975) MASSIVE SS IN DRAINAGE A LITTLE THINNER BEDDED	±20'	35 42 50.0 93 00 7.5
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JUST ABOVE IPDM?

(1517)



Location RASPBERRY CREEK Date 4/6/05

Project / Client STATE MAP 2004-2005

CLOUDY &amp; RAINY

(976) GOOD SHALE IN THE CREEK. SOME SS FLOAT BUT NO GOOD PbM CONTACT	±24'	35 38 50.2 92 57 5.2 (9.4)
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(977) LOOKS LIKE THE TOP OF A SMALL SS UNIT. LOOKS THIN BEDDED, STARTING TO RAIN LIGHTLY	±15'	35 38 44.9 92 57 17.4
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## SMYRNA CHURCH HILLSLOW

(978) TOP OF A THIN BEDDED SS UNIT, STOPPED DRAWING, PbM?	±24'	35 39 22.2 92 54 12.9 (1313)
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(979) STEEP HILL w/ SOME SS FLOAT ABOVE, CANT SEE CONTACT BELOW HEARTBURN ABOUT TO KILL ME!!	±20'	35 39 30.1 92 54 19.1
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(980) CONTACT: PbM/PbM? GOOD SS UNIT COVERED ABOVE. CONTACT MAYBE SLIGHTLY HIGHER, LOTS OF Fe	±15'	35 39 3.9 92 54 43.8 (1405)
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Location SMYRNA ROAD Date 4/6/05

Project / Client STATE MAP 2004-2005

Scale

(981) SHALE/SS DIPPING ALONG THE ROAD W/ NOPE, 10° NW	±20'	35 39 16.9 92 54 25.5
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