

STATEMAP 2006-2007

Book # 2-348-881



Rite in the Rain[®]
ALL-WEATHER
Geological
FIELD BOOK
No. 540 F

Location BEAR CREEK Date 11-21-06Project / Client WATTS HOLLOW

#348

MP / MPCONTACT COVERED

DARK GRAY MICRITIC LMS.

w/ BLACK FISSILE SHALE

~2-3' Exposed in creek bed - interbedded

- Strong petroferrous odor

JOINTS: N60°E

N60°W 35 49 27.2 ±22'

N-S 92 45 33.3

N30°E

~10' Above pt:

MP: Lms., Gray to dark
 Gray, bioclastic, oolitic,
 oncolitic, massive to thin Bedded

#349

MP

35 49 24.2

DATA PT.

92 45 24.8 ±33'

LMS. w/ Int. shale,

shale: Gray, fissile, clay

~10' thick + Calcareous

Lms.: micritic w/ Abdn.

fossils, Brachs, Bryozoaans

(Archamedies), corals, thin

to med. Bedded

Possible Bioherms? Above



30-40'

6-8'

N.T.S.

Location _____ Date 11-21-06

Project / Client _____

Scale _____

#350

Phc / MP?CONTACT COVERED

Point @ top last Lms. observed

35 49 22.3

92 45 22.8

±17'

LMS.: GRAY, Bioclastic,

fossiliferous (shale below)

∴ may be LMS. in Phc ^{33-38'}

This CONTACT may be

High?

Lms. ~5' thick

Med to thick Bedded

shale Above Lms. calc.

Also V.T.B. calc. ss. Above

Gray fresh + V.F.G.

1/2
 5A 45
 in

seen
 MP 10'
 5'

MP may be increasing in
 shale content in upper
 portion?

OVERALL Good contact w/ MP/Phc

#351

Phc / MPCONTACT COVERED

LMS.: GRAY, Bioclastic,

oolitic, fossiliferous overlain

35 49 24.3

92 45 21.9

±15'

by: shale: Gray, fissile,
 some small BOXWORK frags.

Following same contour

as #350

Location _____

Date 11-21-06

Project / Client _____

#352

Phc / Mp

CONTACT COVERED

Mp: Top last Lms: Lt. to dk.

Gray fresh, fine-coarse-

JOINTS: N10°W
N75°E

grained micritic to bioclastic,

Abn. crinoid & Bryozoan frags.

Phc: shale: Gray, tan, blk, fissle

35 49 31.0 ±22'
92 45 19.7

#353

Mp / Mf ?

CONTACT COVERED

BAR Lms., massive bedded

Dark gray, fine-grained,

fossiliferous Lms.

35 49 8.9

92 45 40.0 ±26'

Forms 250' Bluff

Difficult to differentiate
from Mf - possibly too high-

#354

Mp / Mf ?

CONTACT COVERED

JOINTS:

45E

55E

N-S

85W

35 49 15.2

92 45 46.1

±28'

LAST Int. shale, Gray
fine-grained, thin bedded
Lms above-

S&D: N70°E; 4°SE

Location _____

Date 11-22-06

Project / Client West flank Housley Mtn.

Scale _____

#355

Mf

35 49 53.0 ±23'

92 45 49.7 ±23'

Data Pt.

Black fissle clay shale w/
Int. Dark Gray micritic

Lms.

Lms.

~70-80' Exposed

Good outcrop - Saptanum

Also notice concretions in

shale - disk shaped -

JOINTS: N'S

N85°W

N72°W

N11°W

S&D: N65°E; 4°SE

#356

Mf

35 49 51.9

92 45 48.8

±22'

Data Pt.

Possible fault

Fault plane: N65°E; N53°SE

Normal fault

N: S&D: N65°E; 9°SE.

LARGE Drop Stone

Thin bedded Lms. / Mod. bedded Lms.

Downthrown to S.

~20' Displacement

S&D: N60°E; 14°SE

35 49 51.9 ±22'

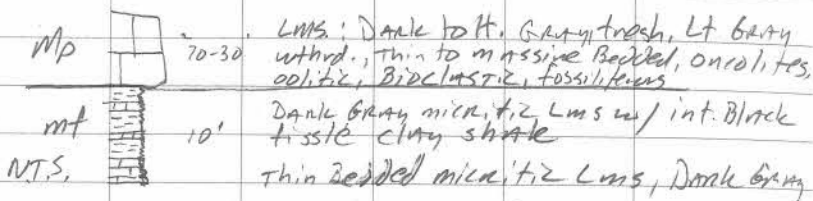
92 45 48.8

Location _____

Date 11-22-06

Project / Client _____

#357

Mp / MtCONTACT SHARP
EXCELLENT OUTCROPSKETCH TOP
355

35	49	51.7	±22'
92	45	47.0	

#358

Mp / PncTOP Mp Lms. COVERED ABOVE
NO OUTCROP OBSERVED EXCEPT FOR
TOP Lms.

SOME V. SMALL BOWENITE FLINT
 & SMALL ~1mm SHALE PARTICLES
 IN DRAINAGE ABOVE OTHERWISE
 SS. RUBBLE ABOVE -

35	49	52.7	±20'
92	45	48.3	

Location _____

Date 11-22-06

Project / Client _____

Scale _____

#359

Pnc / Pnp or Pnw

- CONTACT COVERED -

SS: TAN-DRAUSE, fine to med. grained,
 Non calc., massive bedded,
 Round-blocky whrd. profile.

(Pnw?)

Forms ~20' Bluff

Deer stand below on Boulder

- DANNY BOHANNON -

Tan siltst. in Rubble just below
SS.

35	50	5.9	±21'
92	45	25.8	

#360

Pnp - Pnw / Pnl

Possible CONTACT

pt. Above massive SS. AS
 desc. in #359.

35	50	3.9	±17'
92	45	22.9	

#361

Pnc / Pnp - Pnw?

CONTACT SHARP

f. ss.

ss.

sh. 2'

N.T.S.

Conglomerate present @ Base ±26'

Although discont., conglomerate
 is henticular, channel fill,
 Not continuous.

Leisegang & wood frags. present
 in SS. & Cong (wood)

Location _____ Date _____

Project / Client _____

#362

Phc / Pph or Pw?

CONTACT SHARP
massive ss. / silty sh.35 49 56.0
92 45 25.9 ±23'

#363

Phc

DATA pt.

shale: Gray, dark gray, frosh, ^{lt.} gray
some tan withd, fissile, clay,
Abdn. Boxwork structures.35 49 52.6
92 45 36.1 ±13'

12-11-06

RAIN 245-50°F
FOGGY

#443

Mp or MP?

DATA pt.

S.W. 106°W; 40°SW

Lms.: ^{lt.} Dark Gray, fine-grained,
Thin Bedded, well jointed,

Abdn. fossils in Bed below

Archamedios, corals, crinoids -

35 48 14.9
92 47 34.2
±21'

Location _____ Date _____

Project / Client _____

Scale _____

Just Above 100' upstream appears to be change
in sand - Abdn. calcite veins oriented:N75°E; N50°W w/ Gray Bioclastic Lms.
Abdn. Archamedios - crinoids, brachiopods, corals also
Along Creek? VARNING SAND

N75°W; 50°SW

±3' weathered shale above - Gray / tan
some mudstone? Beds int. with sh. -

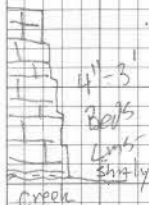
#444

Mp / MP?

35 48 12.9

92 47 27.0 ±20

CONTACT COVERED?

Thin to med Bedded Bioclastic
Lms., Gray to Lt. Gray

- CONTACT probably @ creek level.?

#445

Mp / Phc?

JOINTS

N55°E

N-S

35 48 41.0

92 47 12.5

±22'

CONTACT SHARP

Lms / shale

Lms.: Lt. Gray - tan, fine-grained,
Possibly fossils, crinoids -shale: Gray to Blk fissile, some boxwork
and calc. concretions - NO SILT



MF / MP

* Contact skimp to gradational

Int. Thin Bedded Lms & shale
overlain by thin bedded

Bedded Bioclastic Lms

N. 7.5.

Good exp. of contact

Int shale / lms w/ 2 1/2'

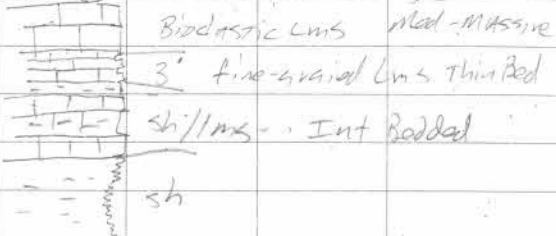
Thin Bedded fine-grained
Lms overlain by med.

Bedded Bioclastic Lms

35 48 33.7

92 47 9.1

± 17'



Bioclastic Lms med-massive

3' fine-grained Lms thin bed

sh / lms - Int Bedded

sh

#447

FAULT S.D. N70°W, 6° SW

MP / MF

35 48 30.7

92 47 105 ± 18'

Downdrop to South

Fault plane orientation: N65°E

covered offset undet. exp ~ 20' Basal
on # 446

S. Rick Hortons Property

Scale

#448

MBU / MF

Contact Covered

35 51 36.7

92 45 26.8

± 16'

SS: Limy, Gray, w/ med Lt Gray

fresh fine-grained massive

to fine bedded, forams

prominent Bluff adj to

Rena creek to this local

covered above this pt.

~ 1' thick Lms. @ top Gray

xln, fossiliferous, v. lg. small

tan-red Brown ss grains?

#449

MF / MP

Contact Covered

* Paint Base of outcrop

Thin Bedded Lms. Covered below MF?

Thin Bedded Lms: Gray, fine-grained, block

chert, some can chert-like

35 51 44.3

92 45 31.1

± 20'

fracture - chert appears

cont.

- massive beds above. Also fine-gr.

35 51 44.6

92 45 31.8

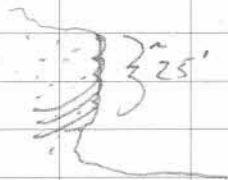
± 31'

Location _____ Date _____

Project / Client _____

#450 MP ~ 20' Above last pt
Data pt
Lms: Lt. gray, fossiliferous, oolitic,
45.6
35 51 39.5 ± 19'
92 46 2.8
45 40.0
oolites 1mm diameter -

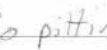
#450 Phc? 35 51 39.5 ± 18'
92 45 40.0



coral



N.T.S.

Sandstone. Massive bedded, Tan. Buff
fresh, some mottling,
Trash x-beds - , channel
sand, calc - non calc,
fine-grained, strobilite
surfaces. Rounded to
Blocky, cellhd. Profile,
pt taken on bench
below - Some honey comb
weathering  pitting -
x-bed flow direction to South
North

#451 MP / Phc 35 51 38.1
Contact Coral 92 46 36.4 ± 22'

Lms: Lt. Gray to Gray, fine-grained,
oolitic, fossiliferous crinoids,

Location _____ Date _____

Project / Client _____

Scale _____

#452 MP / Phc
Contact covered - following
out same contact from #451
Archeimedoncs present @ this pt.

35 51 38.9
92 46 40.9 ± 19'

#453 MP / Phc

W40°W, 4°NE

Top MP Contact covered
1st dip noted along contact
today -

35 51 42.8
92 47 3.6 ± 17'

#454

MP / Phc

35 51 43.2
92 47 11.3 ± 25

Contact covered

Top outcrop - AS previous #451
W-S; 3°E This is probably more
representative N.S.

#455

MP / Phc

35 51 54.1
92 47 10.8 ± 26

Contact covered

Following same contact
on West side like same
mtn.

Location _____ Date _____

Project / Client _____

#456

Mp/Pbc

Contact covered
cont. from #455-35 51 59.7 ±18'
92 42 4.2

#457

Pbc

DATA PT.

35 52 13.4 ±23
92 46 9.6SS: MASSIVE Bedded SS, Tan-Buff-orange
Fresh, fine-Med-grained, strobilitic,
Blocky wth. prof. ls. ~10' exp.

#458

Mp/Pbc

Contact covered

Top Lms: Lt Gray, oolitic,
fine-grained, - Med. Bedded -
slty. slm., crinoids,

- No Lms from above -

35 52 11.9 ±23'
92 45 59.4

#459

Mp/Pbc

Contact covered

S.A.P.

35 52 4.8 ±18'
92 45 55.0

Location _____ Date _____

Project / Client _____

Scale _____

#460

Mp/MP

Contact sharp

Int. sh. & fine gr. Lms
transition by thin to Med Bedded
Lms.35 52 3.5
92 45 47.1 ±25'

12-13-06

*NOTE: Beta thickness from 50cm
quad RE: Plan

#461

Rbm/Pbl-TW

Contact covered

Sandstone: MASSIVE to thin Bedded, X-Bedded
Trough X-Beds, Buff-tan fresh,
well cemented, si cemented?
Appears fine-grained wth. be
masked by cement - Oz (milky)
pebbles present. ~20-30' exp.35 52 14.1 ±11'
92 51 57.3

#462

Rbm/Pby

Contact covered

Top SS beds in #461

No outcrop above -

35 52 14.4
92 51 58.9
±20'

Location _____ Date _____

Project / Client _____

#463

Pbm/Pbl-Pw

CONTACT covered
Base thin to
massive reddish ss

X-Rodded - 20' Exp.

35 52 8.4
92 51 28.6 ±24'

#464

Pbm/Pbl-Pw

CONTACT covered

35 52 59.8 Massive Reddish ss.
92 51 28.7 as desc'd. # 462

±22' following contact

#465

Pbm/Pbl

CONTACT covered

Top massive reddish ss.

35 51 56.2
92 51 29.3 ±22'

#466

Pbm/Pbl

CONTACT covered

inlet outcrop of Pbm

Med-Grained

35 52 1.6 ±26'
92 51 33.7

Location _____ Date _____

Project / Client _____

Scale _____

#467

Pbm/Pbl-Pw

CONTACT covered

Base massive reddish ss.

35 52 3.0 ±24'
92 51 36.8

#468

Pbc/Pw - CONTACT Sharp -

SH st. : TAN-Gray w/ fine blk,

35 50 46.7 ss: Drab to brown to gray, fresh, brown-
92 51 24.8 "red brown with rd., brown seems
"rotten" grain more competent,
±33' fine to med.-grained, gray ss is
calcareous, some stratific +
sh. qz pebbles, massive reddish - black
with profile - road cut -

#469

Pw/Pbl

Top of either massive basal with spines
or top Pw/Pbl

Top of ss. described in #468 -

35 50 44.2 ±23'
92 51 27.7

Location _____ Date _____

Project / Client _____

#470 ~~#15~~ Pbu/Pbm
 Contact Covered
 Top massive ss.
 35 50 26.8 ± 20'
 92 51 24.1

#471 Pbl/Pbm
 Contact Covered
 Base massive ss: Buff-Tan, well
 cemented, med-grained; quartz pebbles,
 x-Bedded 35 50 31.7
 92 51 25.1 ± 28'

#472 Pbu/Pbm
 CONTACT Covered
 Top massive
 Bedded ss. unable to det.
 Base, 35 50 21.8 ± 21'
 92 51 11.8

#473 Pbu/Pbm
 CONTACT covered
 TOPMOST Bed of massive Bedded ss:
 Excellent cross beds & trough x-Beds
 35 50 7.2
 92 51 50.3 ± 21'

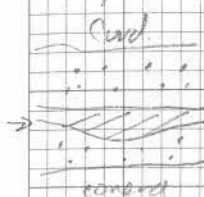
Location _____ Date _____

Project / Client _____

Scale _____

#474 Pbm/Pbl-Pw
 CONTACT Covered
 Base massive Bedded ss
 225' Thick
 35 50 8.3 ± 23'
 92 51 54.8 ± 23'

#475 Pbm/Pbl-Pw
 CONTACT Covered
 Looking West
 Base massive ss.
 225' Thick, x-Bedded some trough
 x-Beds, Prod. Black w/hud.
 N. of b. lenticular channels
 within massive Bedded ss.
 35 49 54.7 ± 24'
 92 51 21.0



#476 Pbm/Pbm
 CONTACT Covered
 Top massive ss as desc. in #475
 35 49 56.1 ± 24'
 92 51 20.8

#477 Pbm/Pbm
 CONTACT Covered
 Top massive ss as desc. in #476
 35 49 17.1 ± 28'
 92 51 52

Location _____ Date _____

Project / Client _____

#478 Pbm/P4p-Pw-Pb1

CONTACT covered

35 49 17.9 Have seen Beach below
 92 51 3.1 outcrop may be contact
 ± 22' @ Beach, ~20' Below-

#479 Pbm/Pb1-Pw

CONTACT covered

230' Exposed massive
 channel sands, x-bedded

#480 Pbm/Pb1 →

35 49 18.8 35 49 18.8 ± 26'
 92 50 54.8 92 50 55.9
 ± 18' 12-14-06

#481 MF/MP

CONTACT covered

Top fine-grained Lms: MF

Bioclastic Above - MP

MF: Lms: Dark Gray - fine grained

petio odor -

CONTACT may be ~20' Below
 -40'

35 51 10.7 ± 18'
 92 48 29.6

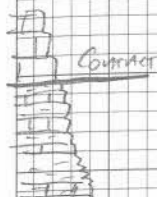
Location _____ Date _____

Project / Client _____

Scale _____

#482 MF/MP

CONTACT in drainage - gradational?



Thin bedded micrite to fine-grained Lms.
 Dark Gray grading into more xln
 thin bedded Lms, w/ thickening
 of Lms. ↑ Beds to medium bedded.

This pt @ separation from

35 51 9.5

92 48 36.0

± 22'

fine gr. / xln + thin to
 Bioclastic
 Med bedded - some int shale
 Below ~2" Beds - ACTUAL
 CONTACT may be ~20' Below?

#483 Phe

CONTACT

Covd.

SS: fine-grained, tan brown, thin bedded
 to massive bedded, oolitic plane
 beds, blocky with profile
 Ind. channel sand in the?

Covd.

~20' Thick

35 51 4.4

92 48 43.9

± 35'

#484 Phe/MP

CONTACT covered

Cont. from

#482 Below

- Top possibly higher? Highest

Covd. 30+

Covd. 34'

Covd. 4'

OUTCROP -
 Lms: GRAY, xln - Bioclastic, Archaeolites,
 massive bedded - ~3-4' thick.

NTS

Location _____ Date _____

Project / Client _____

#1485 Pbc / Mp
 CONTACT covered
 Top mp At same Horiz.
 as last pt.
 35 51 5.3 ±17'
 92 48 38.5

#1486 Pbc / Pw - Pbp
 CONTACT covered
 Base massive ss.
 Does not exhibit prairie grass
 weathering profile Blocky - rounded
 here -
 35 50 22.0
 92 48 0.5 + small springs here +
 ± 25' ss: tan-brown fresh, fine-med
 grained ss, friable, calcareous
 massive bedded
 250' thick? covered -

#1487 Pbl - Pw -
 DATA pt.
 ss: thin bedded, brown/redish
 rhined, med-grained, some
 fossiliferous Beds, pt @ Base
 thin to med bedded ss,

Location _____ Date _____

Project / Client _____

Scale _____

Cont: Abundant Leisegang Banding -
 " ripple bedded ss. thin bedded
 in flow
 " Bottom matrix + trace fossils,
 Also some soft red leaf? Rhythmic
 35 50 4.6
 92 48 11.4 ±26'

Also Abundant Asymmetric Ripples
 in thin bedded ss. flow -

Week 12-18-06 Christmas Break Fall 1-2-06

Priorities with Spring Quad:

~~Bear Creek Valley: MP / Mp mp / Pbc
 East of Bear
 Creek Hawley Mtn.
 SAME WEST
 Bear creek
 just N Bohannon
 Community
 possibly use drainage
 to access Doms
 pt *~~
 Seven Harris
 also visit
 per M. for
 Access
 Cat Creek Valley: MP / Pbc CONTACT
 ON monocline -

Location _____ Date _____

Project / Client _____

~~Witts Springs Mtn. : Tops + Bg Homes
 Pbm / Pbl / Pby
 Storchanen Area
 + Adj. Rds w/
 Access to contact
 Also @ Ref. sect.
 By mouse~~

~~Welcome Home Area/Imo : Pbm/Pbl/
 Pbu
 Contacts
 on Rds.~~

~~Faulting : Pbp/Pw/Phc S.
 Chingapin Cement.~~

~~mt/MP JUST W/
 Bohannon~~

~~Witts Springs : SW/ Middle fork
 Il. Bryan~~

~~Harry (27) @ Sulphur Sp. Hollow
 And all along~~

Location _____ Date 1-2-06

Project / Client _____

Scale _____

~~Type Section Witts Springs
 Norm V.~~

1-2-06

~~Grand Hollow - East End welcome Home~~

~~#488 CONTACT Pbm/Pbl-Pw~~

~~Covered -~~

~~35 45 45.5 Sandstone: Orange Tan Fresh, Cr
 92 45 42.9 Tan w/ hvd. med. - coarse-gr. m.
 ± 23' Milky & 2 pebbles. * Bedded
 massive bedded, 20' thick~~

~~#489 S.A.P. Pbm/Pbl-Pw
 following contact
 As desc. in #488~~

~~35 45 46.6 Lenticular Beds here / channel Bds -
 92 45 36.6 Massive bedded @ base thin bedded @ top -
 ± 29' 230' thick~~

~~#490 S.A.P. Pbm/Pbl-Pw
 massive bedded ss. Good through & Bds,
 Some Honey Comb pitting near top -~~

~~30' { 000
 000 mass 230' thick -
 // massive
 // bed. Some Liesegang Fe staining -~~

~~35 45 48.3 weathers white in ruffe / flower -
 92 45 47.1 Some plant fossils fragments
 ± 21'~~

Location _____ Date _____

Project / Client _____

#491 PW Damp.
Lithology Contact Sharp

[Thin Bedded ss/stk/sh. = 1/2 Int.]

slt/shale: Blk, fissile, shaly calc.

Thin ss: Gray Green, fine-grained, Abdn. trace fossils. some to nodules (small)
calc. possibly from overlying ss?
small water hole next to Rd.

ss.
ss/stk
sh
ss.

[Sandstone: Red Brown Green, rotten, fine-grained ss. Int. thin bedded Gray, more cemented - ripple bedded thin to -massive, lenticular pitting.]

Another massive ss. below
35 45 46.0 ±26'
92 45 21.4

#492 Abn / Pbl - IPW? 35 45 45.5
Contact sharp 92 45 46.6
shale overlain by ss. ±16'
sh: Tan, Blk, fissile, wthrd.
ss: Lt. Gray - fresh, coarse Grn, massive to thin bedded ss. milky or pebbles.

Location _____ Date _____

Project / Client _____

Scale _____

#493 Abn / Pbl - IPW
Contact - sharp - 35 45 44.5
92 45 47.9
±24'
±35' thick

#494 Abn?
Shale thin bedded ss covered
35 45 47.3
92 45 49.2
±17' Looks like Abn thin @ this level?

#495 Abn / IPW
Contact covered
Top massive bedded ss ~ 25'
Thick.
35 45 29.0 ±22'
92 45 19.5

#496 Abn / Pbl - IPW ??
Contact covered & questionable -
massive chert nodules, thin sandstone,
massive chert nodules.
lenticular bedded some sh. partings
±30' thick or pebbles trace sh.
Abn. trace fossil frags. in thin
bedded ss - Abn / IPW -

Thin
massive
thin
massive
can
N.S.S.

Location _____ Date _____

Project / Client _____

Alta. soft sed. def. 35 45 14.8
92 45 34.5

#497

~~Pbm / Pbn~~

Common top outcrop #496

35 45 13.5
92 45 35.6 ±18'

#498

~~Pbm / Pbl - Pw~~ ??

CONTACT Covered
Taken in Rd.

35 47 0.1
92 45 51.9
±16'

SS: Red Brown, med-grained ss,
Thin Bedded, Asymmetric & symmetrical,
Directional & oscillatory - ??
Ripple Beds -

#499

~~Pbm / Pbl - Pw~~

CONTACT Covered
Base of outcrop

massive Bedded - lent. Bedded.
Trough Cross Bedded - X- Bedded laminae.

SS: Tan Fresh, Lt. Grey withed., med. coarse-
grained, milky az. pebbles.

±20' Thick: 35 46 49.3 ±20'
92 45 41.9

Location _____ Date 1-3-07

Project / Client _____

Scale _____

#500

~~Pbm / Pbn~~

Pbm DATA pt -

~~CONTACT Covered~~

Top ss as descr in #499 -

35 46 45.3
92 45 48.4 ±20'

#501

~~Pbm / Pbn~~~~CONTACT Covered~~

in Rd. Top as descr. in #500

35 46 38.0
92 45 48.5 ±14'

1-3-07

Horsley mtn, Hanson Prop.

#502

~~Pf / mp~~ ?

possible contact

Covered -

35 51 4.0
92 45 20.4
±17'

Shale & fine-gr. Lms. Bedded

Base of thin Bedded Lt Gray

fine-grained fossiliferous, (Beds)

Thin Bedded - strophic -
to med. Bedded

Location _____ Date _____

Project / Client _____

#503 MP DATA pt
 Base of; Lms: massive to med.
 Bedded, Bioclastic
 35 50 58.7 ± 26' Gray-Lt Gray,
 92 45 20.5 oolitic -
 (perhaps this is Wp/MP???)
 - probably too high -

#504 MP/Pbc
 CONTACT covered
 35 50 50.5 uppermost Lms: Bioclastic, oolitic,
 92 45 32.5 Lt. Gray, very minute
 exp. -
 ± 10' - 55' floor above -
 - just north of pt Q/S -

#505 MP/Pbc
 CONTACT covered 35 50 46.0 ± 22
 same as pt #504 92 45 36.0 ± 22

#506 MP/Pbc
 CONTACT covered 35 50 40.1
 same as pt #505 92 45 40.2 ± 22

Location _____ Date _____

Project / Client _____

Scale

#507 MP/Pbc
 CONTACT floor # 506 -
 35 50 29.3
 92 45 41.4 ± 22'

#508 MP DATA pt
 35 50 26.8 Lms: Lt Gray Bioclastic, oolitic,
 92 45 45.3 Medn. calcareous - 4" long &
 ± 24' Anchored as -
 Appears med-massive bedded

#509 MP/MT looking down into Bar canyon
 CONTACT N-E; 4° E-SF
 Lms Bioclastic oolitic 35 50 27.7
 92 45 48.0
 ± 26'
 20' suspended shale -
 pt.
 MP ↑ → fine Bioclastic med-massive bedded
 Blue to tan (orange) pt #509
 MP ↓ 20' Transition zone thin Lms fine grained
 w/ thin sh.
 10-15' Int. micritic Lms = 1" thick
 Dark Gray to blk. w/ int sh ± 2' ↑
 Thick
 shale - Black fissile -
 covered ~
 Take bag sample here for desc. pt.

#510 MP/MT
 CONTACT covered 35 50 37.4
 low. 92 45 47.9 ± 23

#511 Mp/Mf
 35 50 37.8 ±26
 92 45 47.3
 High - Atop 20' Transition zone -

#512 ~~Mp/Mf~~? Mf Data pt.
 Highest shale working up section.
 35 48 58.9
 92 46 30.1 Lms: Gray, fine-grained to micritic,
 ±26 fossiliferous, micritic Below
 sh.
 Below int. micritic Lms/sh - Mf

#513 Mp/Mf
 Contact sharp - gradational
 Last of sh. overlain by
 med bedded Lms - Mp
 pt taken in same drainage -
 Thin bedded going away to
 massive bedded Biachostic Lt
 Gray Lms. (Mp) ~20'
 Difference from shale to Biachostic
 Lms -
 35 48 58.4
 92 46 28.2
 ±26'

#514 Phe/Mp Same small drain
 as #513 -
 Contact covered
 Top most Lms in outcrop
 Above only sh/ss float - Mf
 35 48 56.3
 92 46 25.0 Lms: Gray, fine-grained, silty fossiliferous,
 I 39' Med - Thick bedded.
 - Suspect sh beds below ??? -

#515 Phe/Mp
 Contact covered
 Same Contact as #514 -
 35 48 53.1 ±20'
 92 46 27.3

#516 Mp
 Data pt
 Oncolitic Lms, suspect near
 Base Mp? - Good oncolites here -
 Near Hwy 27 -
 35 48 55.0
 92 46 36.0
 ±17'

#517 Ols
 - Barely be-wooded Area
 surrounded by fields look
 like
 (2) Aerial photo
 35 48 58.4
 92 46 36.9 ±17'

Location _____ Date _____

Project / Client _____

✓ #518 IPhc / IPw
 Contact covered sharp
 ss: Massive Reddish, Blocky, congl. lenticular
 @ Base, Tan-Buff, fine-grained, well
 35 48 23.0 cemented, shale pebbles, Non-calc here.
 92 46 8.7
 ± 24 sh: fissile, Green fresh, Gray w/ Tan bed
 weathered surfaces, silty -
 230' thick Bluff face ~ 20-25' ss
 - Bag Sample - Above
 Total = 4045'
 - Thick -

✓ #519 IPhc / IPw
 Fault ~10' Displacement to south
 minor def. banding on Boulders here.
 35 48 17.3 Cannot determine fault orientation
 92 46 8.4
 ± 18' Best estimate E-W.

✓ #520 (IPw) on massive ss - Has Abdn. Leisegang
 banding & Rotten - Laminated
 mottled, fine-grained; orange-tan
 fresh.
 35 48 18.7
 92 46 6.1 ± 14'

#521 IPhc / IPw
 Contact sharp cont. from #519 -
 some plant fossils noted.

Location _____ Date 1-4-07

Project / Client _____

Scale _____

Also Fault @ this locn 35 48 10.5
 Down dip to South 92 46 2.7
 ± 25'

FAULT: orientation: N85°E
 Inclination: 62°SE
 ~20' Displacement?

✓ #522 FAULT (IPw)
 Down dip to South
 Sh. landslides -
 FAULT: OR. extension: N 85° W
 Inclination: 64° SW
 35 48 9.3
 92 46 3.2 ± 18'

1-4-07

May 27

Rain Creek

Valley

Rain

Cool ~40°F

#523

mbv / mf

contact covered
 - highest ss observed -

Viewed looking S. ss: Tan-Brown Fresh, moss covered here,
 fine-grained, thin to thick.

ss	20' min	Bedded	35 51 28.4
lms	10'	- Bag sample -	92 45 3.0
sh	5'		± 17'
sh			
crad			

N.T.S.
 lms: Gray, fossiliferous, fine-grained,
 Retrol. fossils, Hindsville?

✓ #524

Mf / Mbv

Contact covered

35 50 56.8

92 45 48.0

±15'

At least ss described in place
 Attempting to follow out contact
 Above #523, Mbv Below to
 Bear creek - pt also at
 edge of Q15? - East of Rd.
 to south -

Rk ss. as described in #523.

✓ #525

Mf

35 50 33.4

92 45 56.9 ±22'

Dmpt.

sh: Black, fissile, @ Rd to Bear Creek
 Below rd sand except @ grade
 possibly flows

✓ #526

Mbv / Mf?

- Moderate Rain

Contact covered

ss: Tan-Brown, fine-grained, thin to
 med bedded -

35 50 50.3

92 45 52.3

±26'

Also Q15? Above to East
 Slipping over Mf -
 Ends @ driveway to Home
 Consult. Acrim -

✓ #527

Mbv Dmpt

Lms: Gray, fine-grained fossiliferous

Bedding undulating in some pt

35 50 76.3

92 45 58.0

±14'

Ore shale possible contact

However suspected Mf -

Also @ edge of Q15??

✓ #528

Q15 Active Landslide

±30' wide @ base

35 50 10.4

92 46 0.0

±15'

Very deep parking lot w/ asphalt

Revs. at Mf Quarry - Mf -

★ #49-48 -

Likely not contact

probably - Contact between

Massive Bedded pitkin,

Mf sh. - 90' thick



★ Disregard as contact

✓ #529

Mf

35 48 16.4

92 46 59.1 ±21'

Dmpt

lowest Mf in Rd Hwy 27

(4)

(3)

(2)

(1)

cont

(1) Lms: Gray, Biohermal, Med Bedded,

to massive Bedded

Section looks same here as

Quarry.

(2) Above; sh: w/ int nodules friable

Medium lms @ top

(3) Above: Gray fine-gr. lms, fossiliferous, Thin-Med

Location _____ Date _____

Project / Client _____

✓ #530 MP - Dura pt
 small DEP: N50W 30E 35 48 12.7
 " " " 92 46 53.4
 ±20

(4) LMS: Gray massive bedded, fine-grained, fossiliferous, some thin shales interbedded - Bands -

✓ #531 Phe / PW - PPh
 Contact sharp

MP? thin ss
 - small fault

ss $\frac{10}{10}$ ss
 FAULT orientation?
 N100E 55°E

210' displacement : N/A enough to map

35 47 33.9 ±31'
 92 45 46.4 - PW / PPh 30' Here -
 ±31'

ss: massive bedded overlain by massive bedded horz. p. bed ss,

old Rain @

Location _____ Date _____

Project / Client _____

Scale _____

✓ #532 PW / PPh / PPh
 PPh thin bedded
 H Bedded between massive beds - 1/2 in. pt
 30' PW - Phe massive ss.

Phe thin bedded ss - Gray, fine, dark gray, w/bed, calcareous, fine-grained, mid-grain, w/Int shale - thin to thin - channel
 Big sample Bedded

Wid: N/A with phyle thin bedded
 Cut Bank - thin bedded, channel
 Bedded - blocky, thin bedded, phyle, lenticular
 thin to massive channels

35 47 31.3 ±31'
 92 45 42.0 ±31'

✓ #533 FAULT

FAULT N20°W 35 47 37.2
 offset undet. 98 45 37.8
 ±52'

Location _____ Date 1-8-07

Project / Client _____

✓ #534 Mp / Phc
 Contact covered
 Top Gray Lms., oxidiz
 fossiliferous, massive
 35 51 35.3
 92 48 36.2 ±B
 Bedded - mostly covered -

✓ #535 Mp Data pt.
 Head of trench, ~ Mp.
 35 51 46.8
 92 48 34.2 ±26
 Near power line - uncertain
 if possible Great or paleo
 feature, maybe man made?
 obtain GPS points to show trend -

~~#536 Mf / Mp
 Contact covered
 Top Int sh / + micritiz
 Lms -~~

#537 Mf / Mp
 Contact shrap. Gradational
 Thin Bedded Dark Gray fine grained fine. Mt
 Int sh.

Location _____ Date _____

Project / Client _____

Scale _____

Dark Bay LT Gray Fossiliferous Lms Mp
 5-side trench -
 35 51 43.8
 92 48 31.5 ±20'

#538 Phc / Mp
 - massive sandstone - ~ 20' above
 Contact
 7.6° SW: N80°E; 60SE SS
 - Contact covered -

35 51 20.8 Highest Lms. Flats Mp ~ 20'
 92 48 48.5 Below overlying Phc
 ±28' SS. -

#538 Phc Data pt
 massive bedded, channel bedded
 SS in Phc - Base
 35 51 30.2
 92 48 50.8
 SW: N40°W; 33W

#539 Phc Data pt
 Base Top massive SS -
 Appears to be dipping to SW?

7.6° SW: N80°E; 40S
 35 51 15.0
 92 48 48.8 ±21'

Location _____ Date _____

Project / Client _____

#540 Pbm / Pw

Contact covered

Base massive bedded ss -

* milky or pebbles *

ss: Tan-Radish Tan^{fine}, fine-mat grn.

Note: - thin bedded ss below -

Also Pbm more friable here

35 50 40.0 seems to lack cement

92 48 57.3 poss. of de to loc. @ top

± 18' mtr - ? & waterlog -

#541 Pbm / Pw

Contact covered

35 50 34.1 same as #540 follow out

92 48 42.9 contact -

± 19'

#542 Pbm / Pw

Contact covered

Same as #542

Also prominent beds 240'
Below may be natural base?

Location _____ Date 1-9-07

Project / Client _____

Scale _____

only ~20' exposed here -

Also X-Bedding -

35 50 23.0

92 48 53.1 ± 17'

#543

Pbm / Pw

covered

S.A.P

following contact

on H. 11800 -

only ~10' exposed here -

35 50 25.8 ± 26'

92 49 0.0

- 5135 stop
(pm)

1-9-07

Pbc?

#544

Unknown ss orange & gray

fresh, fine-grained, massive

bedded, lenticular channel

35 51 37.1

92 49 48.9

bedded: ~10' exposed -

± 20'

#545

Mp / Pbc

Contact covered

Top Mp float -

Below Mp in place.

Location _____ Date _____

Project / Client _____

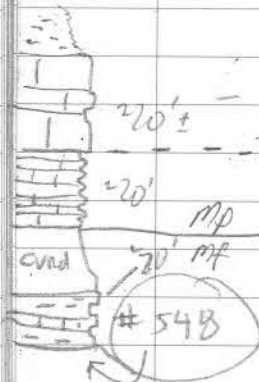
35 51 40.6
92 49 50.4Lms: Lt Gray, Bicolored,
Thick to massive Bedded -
±23' in place: fine-grained + fossiliferous
Also oolitic -

#546

MP
Draught35 51 43.4
92 49 50.5 ±20'10' + shale - Dark gray to
Blk fissile, calcareous,
silty, silty. - Thick
Bedded lms just below

#547

MP/MF

* Define pt GPS 40 50'
Below #546Base transition zone
Actual contact ~20' Below
Contact covered -? Like bluff thin Bedded
lms. probably massive
Bedded lms MP 35 51 43.5
S.D. N100E; 48E 92 49 50.8
MF ±20' Below #517

Draught

lms: Dark Gray v.f.b. to micritic,
thick Bedded. Int Blk fissile shale -

Location _____ Date _____

Project / Client _____

Scale _____

JOINTS: N100E

N450W

N45 ~~0~~ EAST

NO GPS ~20'

Below #547

#549

MP/MF

Contact covered

35 51 23.7
92 50 9.8
±23'Like massive Bedded
Lms: actual maybe?

20' Below #? 35 51 23.7

#550

MP/MF

Contact covered

35 51 17.0
92 50 9.2
±21'

same lms #549

Note: Blk chert present sporadically

#551

MP

Draught

S.D. N50E; 50E

1/2" thick -

35 51 17.6 ±20'
92 50 5.8

✓ #552 Phe/MP
 Contact covered
 Highest MP Plant +

35 51 16.4 In Drainage -
 92 50 2.9 ±18' Thin - massive Bedded
 Below -

✓ #553 Phe
 Data pt

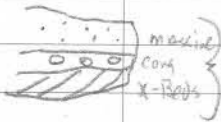
SS: Tan-Gray, Massive, fine-grained, only ⁴ 25' Exposed,
 Int to be Base Phe SS.

- Bag Sample - 35 51 17.8
 92 49 57.8
 ±27'

✓ #554 Phe/PPW

Contact covered

SS: Red-Brown Fresh, Polton, fine-grained,
 massive Bedded, X-Bedded.



X-Beds Are Calcareous - Int to Mat gray
 Also - "6" conglomerate shale
 pebble cong. mostly sand

35 51 11.1 Also some rounded Qz pebbles
 92 49 48.0 ±23' THIS PT MAY BE TOO HIGH AS

✓ #555 Phe/PPW?

Contact covered

35 51 21.4 ±26' SS: Thin Bedded here
 92 49 44.5 Cont on contact
 from #554

✓ #556 Phe/PPW

Contact covered

35 51 25.3 Cont from #555
 92 49 31.9 LARGE CONCRETE CYLIND
 ±31' Below -

Drawn contacts line
 Based on minimum exp. -

- 2 1/2' thick here -

✓ #557 Phe/PPW

Contact covered

Base SS: coarse tan, med-
 grained, X-Bedded, massive,
 overall blocky, only 10-15'
 exposed. @ Base
 spring used for base
 Below -

35 49 59.6 ±30'
 92 49 1.1

#559 Abm/Plw

Concrete Covered

35 49 6.1

92 49 32.7

Base massive to channel bedded
 X-bedded ss. only ~10' exposed,
 GZ pebbles present - med coarse-grained.

#559 Abm/Plw

Concrete Covered

MR Danbury from
Denmark

35 49 10.1

92 49 44.1 ±18'

Top massive ss: ~40-50' thick
 excellent exposure
 still appears
 channel bedded
 + X bedded
 overall massive -



NTS
 "V. eval looking N"

Note: could not find way to
 Base due to Bluff -
 Need rappelling gear.

#560

Abm/Plw

Concrete covered

Highest ss - massive below
 only ~20' exposed here
 Suspect ~40-50' - Below concrete
 Abm/Plw

Sketch looking to SW @ Type section
 with's Spring -

35 48 11.5

92 49 44.7 ±18'

looked

@ this next day

#561 Abm/Plw

Concrete covered

35 47 21.9

92 49 6.3

~20' Below pt. is concrete as described
 Bluffs + small (1/2) fault
 ±18' Abm thick to massive bedded
 Below -

- Thin to thick above -

ss: Tan fresh, med-grained, X-bedded,
 to gray, milky GZ pebbles present

Hand Samples

* Abundant rubble to SW
 outside drainage *

#562

Abm/Plw

Concrete covered

35 47 47.6

92 49 39.8

ss: Reddish Brown med coarse grain;
 X-bedded - could not reach
 bottom, perhaps ~40SD?

±20'

Location _____ Date 1-10-07
 Project / Client _____

1-10-07
 #563 Pbm / IPbm
 35 47 51.4
 92 49 49.3
 ±141

Contract Covered
 Thick to -
 Top of massive ss
 ss: As desc. in #

#564 Pbm / IPbm
 Contract Covered
 well X-bedded
 35 47 52.1
 92 49 47.5
 ±22

It may be slightly high -
 Cause - siltst. or sh. just below 20'
 Rugged terrain w/ high relief -
 ss: X-bedded, 0.5 pebbles, med coarse-
 grained, Tan-Reddish white fresh -
 well cemented.

- VERY RUGGED WORKING DOWN SECTION -

#565 Pbm - Unknown SS Top (#1)
 Above ~ 30-40' of
 ss./siltst/siltstone & Gray to Lt. Gray,
 (Below Pbm) Tan, forms ~ 20-30'
 Bluff here -



ss: Gray, v.f.g., v.t. Bl to thin bedded
 Int siltst. & sh. w vit.
 Pt. #565

Location _____ Date _____
 Project / Client _____

Scale _____

Strat: N-S
 35 47 54.8
 92 49 50.7 ±37

#566 Cont from #565
 Base of sand-massive from
 #565 -
 ss: Gray, fine-grained, calcareous
 thin to v. thin bedded, some
 shale partings fossiliferous
 rounded grains - Blocky



Note: Look as if massive may
 actually be thin bedded &
 just mixed to appear
 massive due to calcareous
 cement binding??

#567 Base unknown SS (#2) 35 47 55.5
 92 49 55.5
 ±23
 ss: Blocky, fine-grained, calcareous,
 fresh Dark Brown - massive

siltst: Gray, Tan, Reddish tan,
 many - fine-grained, shale
 is Dark Gray, silt. is Red Brown
 to brown, & ss is Brown Red
 Brown -

#568 Base ss. Pbm / IPbm
 ss: Lt. Gray, fine-grained, calcareous
 few shale pebbles, Blocky with pebbles
 35 47 54.6 ±20'
 92 49 57.3 - siltst below Gray Contract sheet

1-10-07

#569

iPhc / iPhw

Contract sharp

698 S.A.P. #W



Massive SS S.A.P. deep Good outcrop -
underlain by: silt. sh. Gray siltst,

Gray shale, silty
shale - fissile
Bolshevik noted.

Massive SS: 60-70' thick, Blocky,
previous point on lower
relief ∴ may not have
seen true thickness -
overall ~60-70' thick!

35 47 56.5 ±17'
92 49 56.6

#570

iPhc / iPhw

Contract sharp

35 47 50.5
92 50 18.7
±32'

met Mr Hendrix & Rowles state
Indy here -

Base of massive SS as desc'd in
#569 west side drainage -

#571

iPhc / iPhw

Contract sharp

Base massive SS met Rita
@ in #570 half scenic
Bag Sample onto Rowles

Phc SS: Calcareous, coarse ^{med} - gravel, fine to coarse
Silicified present x. reddish blocky,
massive - brown to buff Gray fresh -
- Conglomeratic at base -
Bag Sample container

1215' exposure -

35 47 48.3

92 50 25.4

±22'

#572

iPhc / iPhw

Contract covered - minimal exp 310'

S.A.P.

35 47 45.9

92 50 32.3 ±22'

#573

iPhc / iPhw - contract covered

35 47 42.5

92 50 33.1

±22'

#574

Unknown SS

~10±3' thick Could not reach
outcrop, point taken just

Above -

Bench above Top & Bottom
covered -

TOP

Richard: Lowest massive ~25'

Below - ~50-60' thick

10' thick @

35 47 41.5 ±23'
92 50 26.3

iPhc / iPhw

Contract

#575

Pbm / Pw

35 47 36.3

Contact covered

92 50 25.9 ±33'

- Base massive ss -

ss: Tan fresh, white w/lsy coarse-unwaved
Qz pebbles, Leisegang, x-bedded

#576

Pbm / Pby

Contact covered

Highest Pbm floor

35 47 35.7 ±27'

92 50 26.6

#577

Pbm / Pby

Contact covered thin bedded, x-bedded.

35 47 19.5 ±29'

92 50 13.9

#578

Pbm / Pby

Contact covered

Top Pbm Bluff

Worn orange

Highest in place

observed -

35 47 10.7 ±17'

92 50 7.5

#579

Pbm / Pby

35 47 15.4

Contact from #575

92 50 3.0

±16'

#580

Pbm / Pby

Contact covered 35 47 23.2

2 40-50" thick 92 50 1.0

- Thin - Thick bedded - ±17'

#581

Pby

35 45 46.6

Dark pt.

92 51 51.9 ±20'

ss: tan-white, orange tan fresh
- Thin bedded, fine gravel, ripple
bedded - thin Ent. sh.

#582

Pbm / Pby

Contact covered

Thick to massive ss, x-bedded

Med-coarse gr. Qz pebbles

thick obs. in flow west of

thry - does not cross

thry -

35 47 6.8 ±16'

92 51 45.0

1-11-07

Cold, cloudy, windy -

①

#583

MP/MP

Contact covered

Base massive bedded
Lms.

35 49 30.9

92 46 44.4

±20

Lms: Lt Gray, P. clastic,
Highly fossiliferous
Crinoids, Bryozoa, Trilobites,
col. corals - ooliticAlso see abundant
oolitic Lms float
from above -

#584

MP/MP

S.A.P

35 49 32.7

92 46 44.5

Sh; Thin bedded - med bedded Lms
Int w/ blk sh below ±24

#585

MP/MP

35 49 29.5

92 46 43.2 ±24

S.A.P - Follow Contact

#586

MP/Phc

35 49 29.3

92 46 50.8 ±21

Top Lms Lms. AS desc
in # 583 - shale above -
Contact covered

#587

Phc

Contact - Sandstone Base?

Base massive channel

Bedded ss ~20' thick

35 49 29.8

92 46 53.9

±23'

SS: Tan, fine grained, non
calc.

#588

Phc/Phw

Contact covered

SS: TAN, fine med grain, massive -

35 49 34.4

92 47 16.2

±20'

Med - Bedded - minor laminae,
arenaceous blocky -→ possibly micaceous +
← Hand sample here -

← 50-60' thick

Also: Area Gray to blk ss
micaceous

Hand sample

#589

Phc/Phw

Contact covered #588

Location _____ Date _____

Project / Client _____

Note: Baycos Rd. dwest
 Write maybe it. to
 Pw 35 49 37.3
 92 47 15.9

#590

Mp / Pbc
 Contact Contact
 Topmost Lms in Bone field

35 49 50.7

92 46 56.2

Lms: Gray-Tan, fine gr.,
 fossiliferous, - Abdn
 Olivines -

±2.9

Notice ss + shale above
 see 2nd week notes

#591

Mp / mf
 Contact slump 35 50 3.2
 92 46 51.4

±2.5'

Ent ss / Lms
 mat to thin Bedded Lms

one-lm by massive Bedded Lms

Good look @ contact from

South side drainage -

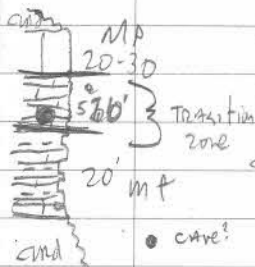
see sketch: Also few small

crave openings -

Also few scumers

Also: Bed are undulating slightly

Spring issues from crave *



N.T.S

"Viewed looking N"

Location _____ Date _____

Project / Client _____

1-18-07 - Next week -

Scale

To. No: Wills Spring QUAD -
 SW corner. IPbm / Pw ???

IPb

Middle Fork

Illinois Basin

Hard to exist

1-23-07

S. Fork Ill. Basin

Tills Quad

#607

IPbm / IPw - Pw ?

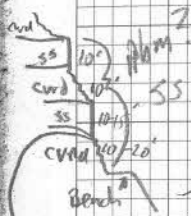
35 43 41.2

Contact Contact

92 52 7.1

Base of 1045' ss

±2.0'



SS: Tan fresh, bedded gravel, * Bedded
 well cemented, load structures,
 Part of Ill. - massive Bedded

- looks thin here - N.S.
 * 220-30' Below another sand -

#608

IPbm / IPb - IPw 35 43 38.6
 92 52 8.9

Contact Contact

±2.1'

Base sand vs. dachs in #607

massive ss underlain by v.T. Bedded

to T. Bedded

ss, ripple Bedded, minor Silt. st.
 fine-grained, micaceous *

Location _____ Date _____

Project / Client _____

Also minor plant frags (univ) fossils
+ Trace fossils - in lower ss below

concretions -

- Perhaps IPW - Sand ???

#609

Underneath ss IPW?

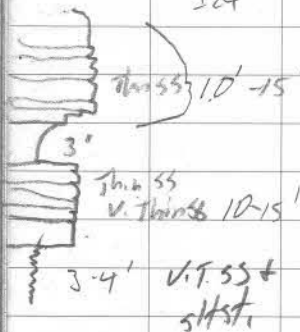
Base 20' ss -

35 43 36.8

92 52 5.8

±24

Thin to massive bedded
fine-grained



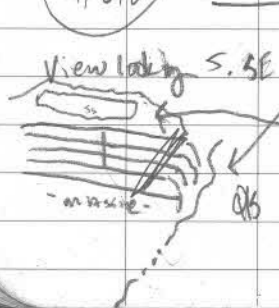
Base ss: Gray Tan, fine-green,

silt ss: v. thin bedded ss, gray,
siltst. Gray with

Tan Brown - ripple bedded

#610

IPW? || Q15 to N Data pt.



ss: Thin to med. bedded
overall planar bedded
possibly small fault
here - massive ~ 20'
Above? covered

Location _____ Date _____

Project / Client _____

Scale _____

440 NKS
Fault: N 80° W; 51° S offset: undet.
S.D.: N 65° E; 7-8° W-NW

ss: Tan Gray to Buff, fine-grained,
micaceous?
Hand sample - 35 43 32.6 ±26'
92 52 1.2

Assume Normal fault ND to S-

Note: Thin to v. thin ss to creek below -

#611

S.D.: IPW? Data pt.

Med - Thin bedded ss - Tan, v.f. - greenish,
some med. - greenish -

S.D.: N 70° E; 9-10° W-NW

S.D.S: N 45

N 75° E

35 43 37.1 ±15'

92 51 50.9

Just to N: 2' conglomerate @
Base to creek

#612

Under ss Data pt. = (5)

looking for IPW? Perhaps not?

Thin to thick bedded
Tan to reddish tan fresh,
fine-grained, some shaly part of,
some orange/red matrix

Location _____ Date _____

Project / Client _____

minor milky or pebble-
up to fine-med-grn
Hand-
5 ft sample — 35 43 37.1
92 51 14.7
X-bedded, ~20' Exp. ±21'

#61's

S.A.P.

(Plan?)

can see ss unit across
drainage to N- (about
same Elev. —

35 43 58.1 @ Base massive ss, Bands ~
92 51 12.4 20-30' Below-
+25' ss thickness ~ 8-10' -
minor X-Beds

#614

Plan? Damp

ss: v. thin to thin bedded, Gray,
fine-med-grained, calcareous silty.

S.D.: N30° E; 5-7° SE

Also some very minor v. + clay shale
int. bedded-

35 44 27.7 ±22'
92 51 23.8

Location _____ Date _____

Project / Client _____

Scale _____

#615

Plan / Plan?

Contact covered

35 44 45.5 Base massive ss outcrop
92 51 9.8 Seep trail on ~~BEWCA~~ Below-
±16' 20-30' Below-

~30' (40') ss: Tan-Orange-TAN, med-grained,
massive bedded, micaceous
x-bedded.

Note: This may be # 62 sand?? Although when
Calc-

- Thin bedded ss above

#616

Plan?

35 44 49.9 ±22'
92 51 51.8

~ Base: ss: thin bedded, to thick

bedded, TAN-ORANGE-TAN, micaceous,
well cemented, fine grained

Leaning banding
~30' Exp used here-

Just Below Building stone thickness
excavation

#615

Note: Appears to be some sh. in the
thin bedded interval-

+ or pebbles in thin ss-

~10-20' - Dark Gray Ash, with blue Gray to
Tan Brown, Clay Rich shale

#617

Unknown SS/sh (Pom/PPw??)

Lithology correct - covered -
cont. from #46 -
walking out contact* Thick - thin bedded ss overlain
by shale

35	44	58.5	SS: Tan - reddish tan, fine - med grains,
92	50	57.5	milky or pebbles -
±36' - 40-50' thick -			

#618

Cont from #617
S.A.P.* massive overlain sh massive bedded
Blocky -

35	44	53.2	
92	50	55.6	±25'

#619

Pom/PPw?

= Late Dusk
thin to
at baseDark massive bedded ss -
to seep
~15' thick

35	44	15.6	
92	51	37.3	±22'

1e/A @ 0800 scale

#620

Lithology correct

OAB has
1st
pt.

* shale / ss

Pom?

230' thin bedded ss
underlain by ss/shale
* 23' med bedded ss -

Top ss: Gray - thin bedded ss, fine to
med grain, micaceous,
trace fossils, some into
shale - sh. CLAST Pom?

shale: fine Gray to blue Gray
clay shale, some tan brown
on surface, surface
Pom?

Base sand: Gray pebbles? sternal grains,
mostly med - coarse G2
pebbles - absent -

35 41 55.8

92 52 81.0 ±24'

? Pom

Hand sample BAS ss.

Note: Just upstream top ss: massive bedded
~10' thick overlain by thin ss -

ss: Brown - red brown, fine - grain, micaceous
fatten -

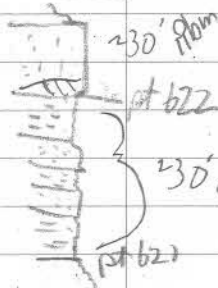
Location _____ Date _____

Project / Client _____

#621 Lithology Contact SS/sh

Thin Bedded SS as desc.
in #620 overlain byshale: concretions, slightly silty,
Dark Gray, fissile, with
Dull Brown35 41 45.7
92 51 53.3 ±24'concretions: Non Calc K/case
Hm. dens.~30' Thick - w/ thin Bedded ss above -
w/ some int sh -working up section: thin Bedded
ss gives way to thick Bedded
ss ~30' above massive ss
next pt @ massive ss -

#622

Pfm/Plw ?? 35 41 47.3
on Pp? 92 51 42.7
Contact sharp ±24'Massive Bedded ss / shale:
ss: Gray to Black-Tan, Fine Grained
X-Bedded, Abdn. Fe concretions,
w/ Fe Banding, Honeycomb
minor, Blocky, Leisegang
withering,

Location _____ Date _____

Project / Client _____

Scale _____

Note: massive ss in Pp or Pfm
uncertain - X-Banding @ base only

#623

Cont from #622 -
S.A.P. contact covered35 41 44.2 ±21'
92 51 39.9

#624

Cont from 622/623

Contact covered -

35 41 41.5 ±26'
92 51 44.0

#625

Pfm/Plw ? - sharp

Contact sharp

SS: Thick Bedded, some Thin-Thick,
Gray-Base Brown, well cemented,
Med-grn. 02 pebbles -

35 42 16.3

92 52 32.8

±24'

some Green glauconite / siderite?
m. 2. ??, shale pebble rip up -

S.H.S: Gray to Blk fresh, some tan.

#626

* Samara

Pfm/Plw ? As desc. #625

Contact covered

Base thick Bedded ss.
channel bedded; X-Bedded
Trough X-Bedded

Location _____ Date _____

Project / Client _____

230-40' thick - 35 42 21.6
92 52 43.9 ±23'

#627 # 622 cont -
may be High -

35 41 40.3 ±16'
92 52 19.4

#628

Unknown ss - Illegal
Assume Pg ^{Dumping} Here -
contract covered

ss: Red Brown - Tan, Fine-grained,
some laminations, thin bedded,
to med bedded ~ 6" thick.

35 41 32.6
92 51 51.5 ±21'

#629

Pom / Pw #1
contract covered

Base of ss as desc in 622
X-Bedding Here - thin bedded
210-15' Exp -

35 41 40.4
92 52 00.6 ±17'

Location _____ Date _____

Project / Client _____

Scale _____

#630

Pg sand? #2

ss: thin to thick bedded
~ 10-15' exposed

35 41 39.4 Tan, Red Brown, fine to v. fine gr
92 52 1.5
±15'

#631

Pom / Pw TRACTOR
Contract covered Guy w/
Keystone
Beak

Top massive bedded ss

35 43 46.9 ss: Tan Brown - Reddish-Buff,
92 48 44.9 med. coarse-grained, well
cemented - 2 pebbles
±19' 230' thick rounded with pebbles

Good X-Bedding

- Have sample -

#632

Pom / Pw - contract covered -
Base of #631

35 43 45.1
92 48 45.0 ±20'

Location _____ Date _____

Project / Client _____

#633 Pbm / Pbu

Cont from #632

Note Contact ~ 10-20' Higher

pne ~ 20-30" lower

35	43	53.1	±20'
92	48	45.8	

#634 Pbm / Pbu

Cont from #633

CONTACT covered

~ 10-20' higher

Top massive ss: az pebbles,
 coarse-grained, massive to fine
 Bedded

Hand sample az pebbles

Note: ~50' thick to base -
 Mill hole water flow

35	43	12.2	±15'
92	48	43.9	

Location _____ Date _____

Project / Client _____

Scale _____

#635 Pbm / Pbu

CONTACT covered

Top sand is rd ditch

Note: Typically only sees Bluff
 This point good reference
 for lecture top -

SS: Brown fine, az pebbles

5:45 pm - leave for marsh ~ 20-30
 miles

35 43 38.8

92 48 17.5

±13'

#636 Pbm / Pbu

CONTACT covered

Highest in rd here

S.A.P.

35 43 27.6

92 48 28.4 ±10'

#637 Pbm / Pbu

CONTACT covered

S.A.P.

35 43 15.1

92 48 28.6 ±14'

← 0600 leave field

Location _____ Date 1-25-37

Project / Client _____

#638 SS: GRAY, Tan Daria pt. (Hbl)
 v.f. g., v. + h. in fo out? thin Bedded - Int. siltstone -
S&D: N10°E; 50° WNW

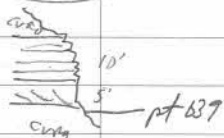


Joints: E-W 35 40 46.0
N75°E 92 49 48.8

- weathered buff orange +23'

#639

SS: Thin Bedded @ top 10'
Thick Bedded at Base 5'



Top SS: fine-med-gran,
 Gray to Brown, qz pebbles
 shale partings / Rip up
Thin Bedded - Rippled -
Bottom: Brown - Tan, med-
 coarse Grn, Thick
 Bedded, + Bedded

Note: minor mica in top SS.

35 40 47.0 +26
 92 49 37.9

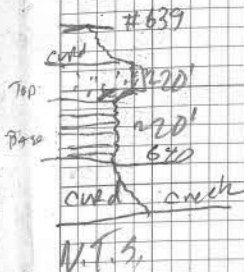
S&D: N80°W; 40°N

Location _____ Date _____

Project / Client _____

Scale _____

#640 SS: Base massive SS top
Just Below #639



Top: SS massive Bedded, Med.
 diam fossils @ Base - Large
 some ripple beds @ Base

Base SS: thin to thick Bedded, Gray,
 Beige, fine to med grain, thin

Also mottled Int shak @ Break 2"
 Finely, some small pitting
 Honeycombing -

Dark shak where shak pebbles
 Rip-up Have eroded out

⊙ ⊙ 2-inch diameter

- Hand sample Base -

A 35 40 44.0
 92 49 41.5 ±10'

#641

Fault

Fault: N85°E; 49°S

See possible cyclical Fault planes

Here - At creek -

North side drainage as desc. in

#640

South: shale-

massive on South just east @ creek
 level -

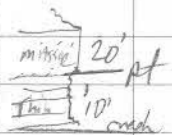
Location _____ Date _____

Project / Client _____

Perhaps not main fault plane
 35 40 42.7 horizontal gives good idea of
 92 49 43.2 orientation - - maybe
 $\pm 20'$ Accommodation fault -

Note: ss @ this point resembles ss @ last
 point overlain by massive ss -
 est = 60' Displacement?

642 Base massive ss - for fault
 Displacement south side -
 drawing



View looking upstream



Viewed looking N80°W

Sand on this side is blocky
 very blocky & massive reminds
 me of IPW Base?

35	40	44.0	$\pm 30'$
92	49	39.3	

Location _____ Date _____

Project / Client _____

Ref
 #133

Lithology correct ss/sh ^{Scale} 1:100
 ss: massive pt layer 3m

Thin ss is below
 ss as described in 642
 massive ss underlain
 by shale siltst.

Except this small fault

ss: thin to massive - gray fine-grained
 calcareous ss - 10' thick

siltst -

This is where ^{thin} ~~thin~~

#643

Top ss unknown use low off
 possible fault displacement -

Blocky ss	35	40	43.9
	92	49	29.3
			$\pm 15'$

#644

Possible fault plane
 next to creek -

	35	40	45.4
	92	49	26.8
			$\pm 24'$

#645

Top ss unknown possible
 fault displacement -

	35	40	47.2
	92	49	27.3
			$\pm 17'$

Location _____ Date _____

Project / Client _____

(646) Possible Fault plane?

Fault: N80°E, 54°S 35 40 44.7
92 49 33.3
±31'

(#647) Top massive ss described in 642 overlain by thin bedded

ss ~ 30-40' thick
pt @ base thin bedded
ss massive @
creek level - up to pt
some thin shale interbeds
in thin bedded ss
- shale in creek just below

35 40 44.6
92 49 35.8 ±21'

(648) Top massive ss - S of fault

35 40 41.7
92 49 49.9 ±50'

Location _____ Date 2-6-07

Project / Client _____

- Cal f Creek -

Scale

(#668) mb/mbv 35 52 27.8
probable fault 92 50 5.3
±35'



Viewed looking West

mb / Lms. coarse gr. Lt Gray-white
Abn. Crinoids on upper
surface

sh: Tan fissle sh withd.
ss: Tan fine-gr. fine-gr. red.
Thick Bedded
to massive

Note: cannot det offset above orientation

(669) mb/mbv

Contract covered

- Top mb -

ss: N85°E, 7°N

35 52 26.8 ±48'
92 50 6.5

670

mb / mbv + Qat / mbv

35 52 23.3

92 49 50.0

±

CONTACT covered

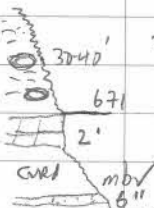
~10' Below - covered?

SS: Thick Bedded, massive
outcrop - Tan-V.F.S.

671

mbv / mf

CONTACT covered



30-40' ~30-40' + sh exposed in drainage

* Large Septarian Concretions
up to 3' in diameter -at @ top lms - hindsville? ^{pk gray}

lms: fine Grained, Gray, fossiliferous

Joints: N10°E

N58°E

N60°W

N35°W

35 52 19.1

92 49 46.5

±28

672

Pnc / Pw

CONTACT covered

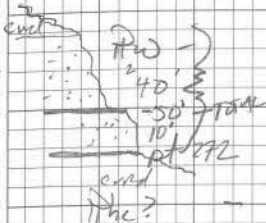
- BASE of massive SS -

SS: Dark Tan, Gray, Med-coarse

Leisegang, Fe banding.

Non to calcareous -

friable -



2-40' - exposed here -

- 50'

- overall massive bedded

bedding may be masked

By calcite leaching? -

673

Pnc / Pw

35 50 26.4

92 51 9.3

±22

CONTACT covered

* Small fracture / calcite

Spring here

SS: Brown, ^{some ochraceous brown} fine-med-grn.

Calcareous, massive bedded,

minor horz pitting -

35 50 20.7

92 51 13.3

massive ss. Below ~10' ±

- probable base Pw -

±23

- Pw ~ 50' TO EAST -

- Blocky to Round wth. profle -

S&D: N85°W; 40°S

674

Base PW/Phe

CONTRACT COVERED

Bottom SAND - on Bench

~10' Thick Above pt 674

35 50 22.4

MASSIVE ss cont on Bench.

92 51 11.7

Lump this ss in with

±22'

may be Phe - 10-15'

difference -

Total thickness ~40-50'

675

PW/Phe? - possibly too high -
perhaps

CONTRACT COVERED - ss in PW.

Base MASSIVE SS

35 49 49.8

~15' thick

92 50 42.4

+43'

SS: ORANGE BROWN, fine-grained,

soft sed. def.

2-7-DB

676

Phe? DATA pt

SS: TAN Fresh, with white buff, fine-grained, thin Bedded, ripple Bedded

S&D: N60°W; 12°SW

Some v. thin Bedded ~10' Exposed -
up R. hble above to top -Note: pt @ Nat. Forest Surv. property
CORNER
CORRECTION SECTION CORNER

T12W; R17W, S6/S7

Ridge to S tracks OUTCROP -

Also Black Shale Below us obs. in
tree overhangs -At creek Shi Blk - DK Gray, Lt
Gray ~~below~~ than

with, fissile -

35 42 32.6

92 50 46.0

±43'

off Hwy 16 - top of ridge

a siltstone: Dark Gray

some Red Brown

staining

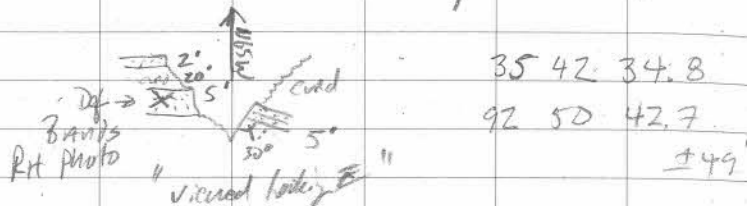
677

PW * possible Phe *

SS: Brown-Gray, calcareous, MASSIVE
Bedded, med-grained, white grains

S&D: N55°W; 30° SSW

Fault orientation is same
 as creek orientation
 Fault: ~~N75SE~~ N65°W; ~~N75SE~~
 ss: 20-30 Above possible displacement

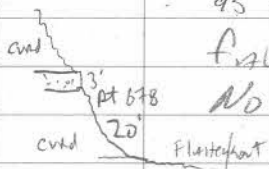


- Fault inclination undet. & undet -

678

NW?

Expected continuation of it
 # 677, Base massive ss ~3' thick
 as described in 677, possible, Non Calc.
 Fault orientation ???



No evidence however -
 except minor def.
 Bands - in place
 Below -

35 42 31.4 +10'
 92 50 34.6 -10'

679

SS: N35E; 5°NW?

Unknown ss pt.?

Base: ss: thin bedded, brown to
 olive tan. Fresh. Fine Med grain.
 continues on opposite side

Drainage -

- Hand samples 35 42 22.2
 92 50 35.1
 ±29'

680

NW

Data pt.

Lt.

~20'

thick

out

ss

20'

looking

West

ss: massive bedded, Gray, Fresh, Brown
 with ^{some} micaceous calcareous
 minor honeycombs, Fe grains, pebbles
 Leisegang Banding top -
 Abundant Isocides -
 Ice Cap -
 w/ profile rounded to concave

35 42 1.0 ±29'

92 49 59.6

681

NW? NW?

ss/siltstone: Lt Gray with, to dk gray,
 ss: Gray, fine-grained, well
 cemented, ripple bedded, blocky
 ss: N80°W; 7.5 Thin bedded 2"

Some tops of ss appear Bisturbidated?
 Directional pipes -
 some micr., Fe oxide
 staining holes ~ 1/4" in
 diameter - with
 Pyrite?

Joints: N-S 35 42 14.9 ±32
 N70°W 92 49 54.6

682

SS: Orange fresh, Plom? DATA pt.
 Mod-coarse-gran, massive
 Bedded, Abundant def.
 BANDS, Richard photos-
 friable, Hand sample - Leisegang
 ~20' thick - ^{AKB} _{ant.}

Note: no contact diseased.

Contact covered?

if Plom? ~10' Below maybe 20'

At Break in slope

Near creek -

minor word fragments -

STAT. 35 42 26.9 ±34'
 92 49 57.5

683 SS: S.A.P. Worn side creek
 perhaps Fault to S?
 Abn def Bands only
 35 42 24.7 ~ 10' Boulders here -
 92 49 58.4 ±22 Not in place? J

684 SS: N40°W; 12° NE

SS: Tan fresh, well cemented,
 fine-gran, thin bedded, *

35 42 27.4 ±24 ripple bedded, micaceous -
 92 49 55.3 Abn or Plom? or RW

Joints: +DE
 6°W
 40°W

685

Plom?

Contact covered

Bare massive bedded SS

As desc. in 682

SS: Orange-fresh, med-coarse,

Abn def Bands -

~20' thick

Top & Bottom covered -

Also friable

35 42 31.9
 92 49 57.8 ±22

Location _____ Date _____

Project / Client _____

(686) S.A.P. Cont on Contact -

35 42 29.3 ±21'

92 49 58.3

(687) SS As desc'd in 684 in

creek 35 42 42.3

STD: 92 50 21.2 ±15'

(688) SS: S.A.P. -

35 42 47.9 ±17'

92 50 29.1

(689) UNKNOWN SANDSTONE
SS: Gray Tan, fine grained,
massive bedded ~ 15-20"
Thick - PA? Pbm?

35 42 22.6

92 49 29.5 ±18'

(690) Pbm or Pbl?

SS: Thin bedded, ripple bedded,
Gray, fine-gran, shale partings

STD: N65°E; 5° NNW

35 41 49.1 ±191

92 49 39.8

Location _____ Date 2-8-07 87

Project / Client _____

Scale _____

- Davidson - OASIS - Behind house on
Snowden Prop. -(691) Abn'l Pbu? 35 45 28.7
92 49 17.8 ±17'

CONTACT CORREL

SS: TAN-BROWN, med-coarse-gran,
micaceous, Fe-poor matrix,
shale partings -

(692) Pbm / PA - Pbl

CONTACT CORREL

SE Flow

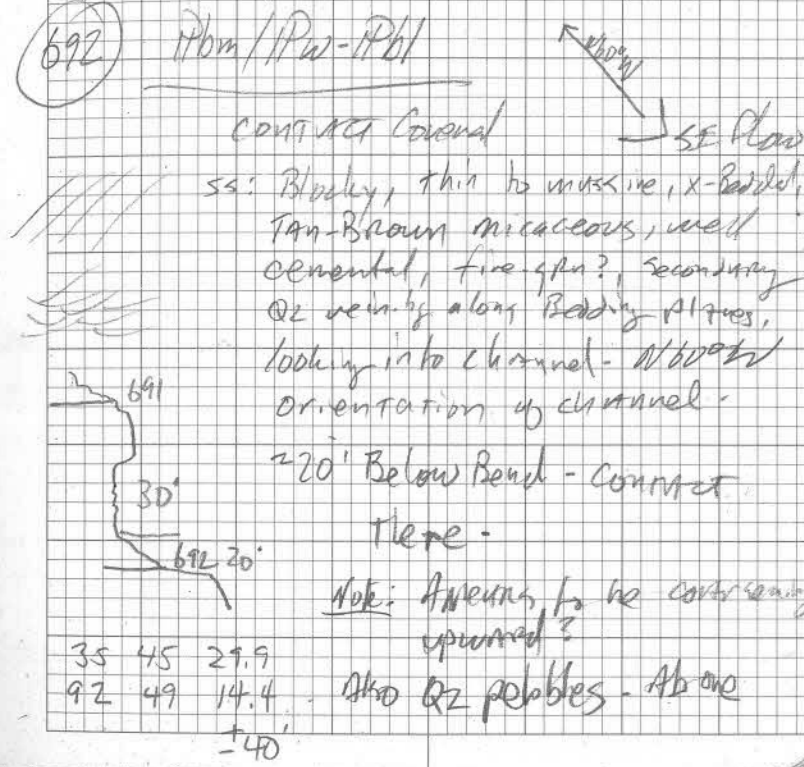
SS: Blocky, thin to massive, x-bedded,
Tan-Brown micaceous, well
cemented, fine-gran?, secondary
Qz veins along bedding planes,
looking into channel - N to S
orientation of channel.~20' Below Bend - Contact
Here.Note: Appears to be cross-section
upward?

35 45 29.9

92 49 14.4

±40'

Also Qz pebbles - Above



Location _____ Date _____

Project / Client _____

693

Pbm / Pby

CONTACT covered

35 45 55.5 - TOPMOST SS outcrop
 92 49 11.1 21' @ edge of field -

±21 SS: Tan-Brown, orange, med. coarse Grs.

694

Pbm / Pby

CONTACT covered

35 45 38.8 TOPMOST SS -
 92 49 49.3 ±28' edge of field -

- Mat. below -

Abdn Qz pebbles, ↑ Fe staining

SS: Tan-Orange, coarse-Grn.,

Qz pebbles, thin-thick bedded

695

Pbm / Pby

CONTACT covered

S.A.P

minimal outcrop

35 45 34.5 ±14'
 92 49 58.3

Location _____ Date _____

Project / Client _____

Scale _____

696

Pbm / Pbl / Pw

CONTACT covered

Pbm SS as desc'd in 694
underlain by shale -

SS: whts white, Qz pebbles -

sh: GRAY, clay w some silt.,
fissile wentles tan -

35 45 34.5 ±16'

92 50 3.7

Z-20-07

733

Pbm / Pby

35 43 25.1
 92 50 44.1 ±21'

TOP - CONTACT covered

shale

SS: white, Gray, Reddish Brown fresh

Tan white ~~W/~~ Fe grains (mudst.).

Gray fine-coarse, Qz pebbles,

Some sh pebbles - v. well cemented

20' thick -

thin-thick - massive bedded.

Sdy Sed. def.

shale Below: Tan, silty, fissile,

Location _____ Date _____

Project / Client _____

Phm Appears thicker on
opposite N side drainage.

- Top @ edge of field -

734 S.A.P. Top

35	43	28.1
92	50	40.2

S&D: N70°E; 6°E

35	43	29.2 +70
92	50	40.7

Soft Sed def.

735 Phm / Pw
CONTACT COVERED

S&D: E-W; 7°S

35	43	24.9
92	50	39.0

JOINTS: N-S
Incl: 45°
17'

736 Phm / Pw? CONTACT?

SS: Tan, orange, Red Brown, Med-gen.,
well cemented, massive Bedded,
25' thick -
Thin if Phm

Location _____ Date _____

Project / Client _____

Scale _____

- MINOR def Bands -

35	43	10.5
92	51	33.9 +16'

737 Phm / Pw CONTACT COVERED

BASE SS: @ base in 736 -
- QZ pebbles - on top -
thin-thick to massive bedded -
soft sed def. Break pillars
20' thick

N45° JOINTS -

35	43	12.9
92	51	31.6 +16'

JOINTS: N-S; N75°E

- Bands 10' Below -

Fault?? Joint orientation ~~N60°E~~; 55° N

X-Bedded

JOINTS X look like def Bed

Note: - Same sand appears to be
on N side drainage slightly
thicker -

ALSO 60-80' Below on N side
massive Pw sand

S&D: N80°E; 6°S

Location _____ Date _____

Project / Client _____

738

Pbm / Pbn

covered

Thin bedded ss below -

SS: Tan Gray, med-grn, rough
 X-bedded, thin to massive

35 43 18.0 Bedded, see gr pebbles in floor

92 51 20.6 220' thick M

±20' base outcrop - not 5' below
 contact

SID: NS; S70E

- loose outcrop here -

739

Pbm / Pbn

contact covered

Top Pbm floor

35 43 22.6 ±18'

92 51 22.6

End day summary: Arrive AGE 0830

In from field 1830

MAP work 2030

TOTAL HRS: 12 hrs 2245

Location _____ Date _____

Project / Client _____

Scale _____

2-21-07

Dixie Ranch

+ Canyon -

Rambo Bluffs

740

Pbm / Pbn

contact covered -

Top massive ss Bluffs

210-20' thick - 35 40 57.6

Lenses - 92 47 26.9

±17'

741

Pbm / Pbn

Contact covered

Good Bluff Below 35 40 55.3

92 47 26.9

260' thick - ±19'

No evidence of faulting

742

Pbm / Pbn

Cont. from 741

25' thick here

Talus Below: prob. much
thicker -

35 40 42.8 ±18

92 47 19.1

Location _____ Date _____

Project / Client _____

(743) Pbm/PPbm

Contract covered

Abundant pebbles

- 60-80' Bluff here -

S&D: NS80°W, 20 NE

Joints: NS°W

35 40 35.9

N85°W

92 47 19.2

±27'

(744)

Pbm/PPbm

Contract covered

Top Bluff cont -

Good X-Beds here

~30' thick

Joints: NS0°E

N-S

35 40 31.7 ±9'

92 46 59.2

Location _____ Date _____

Project / Client _____

Scale

(745)

Pbm/PPbm

Contract covered

Top Flats

~10'

thin to thick bedded -

Mat as well cemented here

shale pebbles -

35 40 33.5

92 46 43.2

±22

(746)

Pbm/PPbm

Contract covered

Apr. top - Local Bluff outcrop

Talus rubble - 5 to 10' exposed thickness

S&D: 0550°E; 4°NW

- Qz pebbles -

- Fine - coarse gr. -

~20' Below is Bench possible

Contract for Pbm/PPbm

35 40 46.9

92 46 43.2 ±16

Location _____ Date _____

Project / Client _____

747 Phm/Phn
 cont. from 746
 ~20' Thick 35 40 59.9
 92 46 53.1

748 Phm/Phn
 contact covered
 top Bluff 35 41 1.9
 92 46 50.7

749 Phm/Phn
 contact covered
 thin to med bedded - thick @ top
 ss, ~20-30' thick
 trough - X-bedded Blocky
 trails below
 pt on talus - 35
 92
 top on bench below?

Note: We @ true Base: 35
 92
 35 41 2.4
 92 46 48.3 ±23'

Location _____ Date _____

Project / Client _____

Scale _____

750 Phm/Phn
 contact covered
 Base of talus slope
 on Bench -
 - Top ~40' Above - 35 41 2.9
 92 46 46.0
 thickness ~40' - ±10'

751 Phm/Phn - 35 41 20.7
 92 46 42.8 ±27'

752 Phm/Phn
 contact covered
 thin to massive bedded
 Liesegang
 Blocky - 35 41 22.8
 92 46 44.2
 az pebbles ±26'
 lenticular channels
 wood fossils along bedding
 planes
 micaceous -

752

753 Phn - Ph?
 contact
 ss thin bedded - ~~thick~~ med bedded
 Liesegang abundant

Location _____ Date _____

Project / Client _____

SS: Orange Fresh, fine-grained
Abundant lenticular
Banding, Fe BANDING -
max Bedding thickness "

(754) Pbm/Phy 35 41 17.5
92 46 58.8 ± 26

contact covered

40-60' Bluff 35 40 38.0
massive bedded 92 47 45.0

(755) Unknown SS Pbm? Pa?

4' Red, fine-med, calcareous Pd
Minimal - Rubble Above

35 41 9.8
92 47 50.6 ± 20'

(756) Unknown SS Pbm? Pa? Pbm?

SS: Tan, Brown, Coarse-grn, Qz pebbles
Abundant, some orange & red
yellow, x-bedded, honeycomb,
massive bedded, ~20' thick, pitted,
Soft sed. def. Near top
Fe Banding and joint planes

Location _____ Date _____

Project / Client _____

Scale _____

- perhaps in channel -
doesn't seem to be persistent
Based on limited exposures -
- pd. taken @ BASE -

Abundant Fe Bands

Also small bluff section fracture
50' High

Joints: N55E



Following Joints

Qz pebbles predominate in
zones horizontal but also

- throughout -

35 41 9.4 ± 16'
92 48 7.2

(757) Pbm/Phy

contact covered 35 40 51.9

topmost ss 92 48 29.1

- undet. thickness - 15'

(758) Pbm/Phy

35 40 51.1 contact sharp
92 48 29.5 - slight ss -

± 31'

50m Hrs

0800 (6:30)

10:5 hrs

Location _____ Date _____

Project / Client _____

(758) Abn - ? RW? 2-26-07

DATA at
minimal outcrop

35 41 55.0

92 51 30.4 ±24'

SS: Lt. Gray - Dh Gray fine-gran,

thin-med-bedded, ripple bedded,
shale partings, micaceous
25' exposed ~30' thick
from top of slope break
to bench below -

(760)

Abn ? - RW?

35 41 49.9

92 51 12.9 ±31

Dip-slope

20' outcrop ~ 30' thick to be
covered -

SS: Thin bedded ss w/ shale
interbedded - v. thin to med
bedded ss - trace fossil S,
ripple bedded - Lt Gray
fine-gran.

S&D: N10°E, 4°E

Location _____ Date _____

Project / Client _____

Scale _____

(761) ~~Abn/RW?~~ RW? RW?
CONTRACT covered 35 41 53.9
25' Exposed 92 51 19.7
massive bedded SS ±19

(762) ~~Abn?~~ RW?
opposite side of drainage
is Gray fine-gran SS -
Does not appear to be

35 41 55.6

92 51 17.7

Abn - look like Abn -

±20' ? Fault in between? NO

S&D: ?? N15°E, 5-9°E

SS: Gray fine-gran - shale parting
± pebbles -

Abn: Liesegang & Fe banding

at @ Base shale below

All contacts covered -

20-30' shale below Gray

fine clay shale - silty
silty shale

replaced 11 Gary to tan-

763

Cont from 762

Pw? Pw??

Base sand as desc'd in

762

35 42 7.5 ± 48' ?
92 51 14.1

764

Unknown SS

Pw?

SS: Fire-grn, Brown v. thick
to thin Bedded, x-Bedded.

35 42 13.5
92 51 16.7 ± 16'

765

Unknown SS

Pw?

10-15' SS exposed

SS: Brown, fire-red grn, shale pebbles

35 42 20.7

92 51 13.5

± 25'

Solutioned out concretions, thin to
thick Bedded - x-Bedded - some
rotten & friable -

Lies on top

766

Pw?

Dip at

SS: Very thin to thin Bedded,
Fire-grn, Fire-grn,
with Brown-grn

SD: N 70° W, 5° SW

<u>Slopes:</u> N 30 E	35 42 28.6
N 80 E	92 51 24.9
N 5 E	
N 80 W	± 18'

Some Brown Fe stained? planes -

25' thick in stream

767

Pw

35 42 42.3 ± 54'
92 51 34.7

SS: Gray, fire-concrete, limy, fossiliferous
Amounts of calcite

In creek Red, Qz pebbles,
shale pebbles, thin Bedded in creek

- Hand sample -

220-30' Above Creek - Concrete

SS: Tan Fresh, micaceous shale
pebbles, minor concretions

Hand Sample x-Beds 10' thick @ Base

Location _____ Date _____

Project / Client _____

768Unknown SS Pbm?
Pbm?SS: massive reddish,
20-30', fine-grained, orange.

35 42 16.8

92 51 49.0 ±16'

shale partings -
PARTINGS -
= Like what we saw up drainage

TOTAL outcrop ~5'

(Shields Knob N70°E from
Benchmark can see rock)

0800-1600 hrs = 8 hrs TOTAL

2-23-07 Arrive @ 0815

Expense Rpt. + Photos on
PLAN -~~Lick fork - remainder for fault
Pbm?~~Hay 27 near GRAVE Pbm

Location _____ Date _____

Project / Client _____

Scale _____

Brogden Hollow -Pbm Along Hwy 27 S of S.
Wills Spring -Bear Creek headwaters
for fault -South side Archtop CreekPbmATONA ???

2-26-07

769Pbm?35 42 54 (NA)
92 51 6.0 (NA)

med? <1" thick

SS: v. thin to massive reddish
brownish green, fine-grained, micaceous,
shale partings, some med. green.

Through X-Beds - solution out

cavities - sample ~10' Exposed

Location _____ Date _____

Project / Client _____

S&D: N-S; 4°E

(770) Base massive SS - ? Pw?

- ~20' thick -

Shale above -

Shale slt. below

SS: Brown-tny, med-grn, Lodinging,
massive bedded.

Possible fault along drainage -

see ~45-55° systematic

- Jointing here - N67°W -

SS doesn't seem to cont. to
N. side drainage but may

be covered -

Richmond

Just
down
stream

S&D: N-S; 9°E

†

35 42 49.5 ± 15'

92 51 17.4

Location _____ Date _____

Project / Client _____

Scale _____

(771) SS: Pw?

- some massive?

SS: thin to thick bedded, def

Bands on float, Brown fresh,

35 42 48.6

92 51 24.2

± 13' fine-grn. shale markings -

S&D: N65°W; 14°SSW

X

- N60°W - possible monocline axis? -

(772) SS: Rubble pile -

Deformation bands -

35 42 43.2

92 50 46.5

± 19'

2-27-07

(773) Pw?

35 43 19.3

92 52 4.8

± 8'

SS: Brown-tny, fine-med grn,
Calcareous, Thin bedded

Ripple bedded - X-bedded

~10-20' thick -

Location _____ Date _____

Project / Client _____

S&D: N10°W; 40°E

16113 N60°E
N80°E

~~35 43 16.5
92 52 5.5 ±14'~~

Here are @ 450X

~50' S of pt 773 is massive
Bedded ss, Abundant lenticles

Perhaps Fault zone?

774

IPW?

35 43 16.5
92 52 5.5 ±14'

Sandstone underlain by
Siltstone w/ ss lenses

C&D

4'

ss: Tan fn-grn, thin bedded, ripple
Bedded, Load cast - Bottom muddling

2'

siltst: Olive-gray fresh, Tan + Red-Brown
weathered, ss lenses -

C&D 30'

5'

S&D: N80°W; 12-14N

230' Below another ss - Thin bedded
w/ some S&D, ripple bedded.

Location _____ Date _____

Project / Client _____

Scale

775

- IPW - 35 43 7.9 ±18
92 52 11.6 ±18

SS: Thin bedded @ top 20'

Brown Tan - Buff fresh fine-grn.

Thin bedded, ripple bedded

Irregular bedded - micaceous

20'

10'

20'

20'

SS: Massive bedded, well cemented,

Brown Tan - fine-grn.

Vertical worm tubes,

minor def bands -

weathered w/ shale pebbles

24' 50'

Total thickness

in bluff face - bedding bands

from massive - thin - calcareous

Systematic Jointing:

S&D: N45°E; 12°NW

N55W

N60W

N30E

N40E

in crack bed

Note: possible

Fault between

creek & pt

775

S&D: N10°W; 70°E
on bluff

N20W

Systematic

joints

776

Deformation Bands

on boulders - Abundant

35 43 8.3 ±16

92 52 3.8 ±16

(777)

~~Pbm?~~ - Pbm? ✓
 SS: Massive Bedded ~4'
 Thick, fine-med-coarse-
 grn, Angular or grains/pebbles

35 43 6.4 ± 8

92 51 49.7

SSD: E-W; 15N GRAS -
 X-Bedded
 - possible Base Pbm -

(778)

~~Pbm?~~ - ~~Pbm?~~ ✓
 35 43 9.3
 92 51 44.7
 ± 17

Brown - Lt Brown - Tan, med-grn,
 (Pbm?) massive Bedded, Abundant
 def. Bands -

Looks just like hand sample
 on table w/ def Bands -

possible fault: E-W; 49°S ??

(779)

N side - fine-grn SS - lacks
 def Bands & hrs

35 43 10.5

92 51 46.0

± 28

- fine-grn Banding -
 (Pw?)

Sorting lower ~ 20' thick

North River ~ 10' thick

(780)

- SS - ~~Pbm?~~ - (Pw?) -

SS: Thick to thin Bedded - some massive
 X-Bedded, possible fault

cutting in dips S-W of River

& S North of fault

N south of fault -

SS: Grny, fine-grn, shale pebbles,
 minor & or pebbles

- ~30' Thick -

solutioned cavities

calcareous

Limy Sandstone ✓ - Pw -

N



35 42 51.9

92 51 59.3

Conceptual sketch -

± 9

781

Pw? Pbn?

ss: massive bedded, minor

Def. Bands, 15-20' thick,

Brown-Orange, med-grn,

pt @ Base - white Grains -

(with micras?)

35 42 43.3

92 51 58.8 ± 15'

782

*Pw? ✓ Pbn?

ss: Tan-Orange, fine-grn, shale
pebbles, micaceous, massive

Bedded, 40-50' thick -

pt @ Base - shale Below

infra def bands -

sh.

Calcareous - Ling SS -

- Shale Below - withs. Gray ~ 40'

Pnc? - Thick Below - fiste

Silky

35 42 34.4

92 52 0.1 ± 7'

783

Pbn/Pw? Contra Corund

massive ss on both sides of

Liche Arch - Buff-Tan Grn,

well cemented - 40-50' thick

- pt @ Base - 35 42 55.1 ± 21'

92 52 11.0

784

unknown ss Pw? Pbn?

massive bedded, X-bedded,

35 42 58.4 herringbone X-beds, Ball & pillow

92 52 13.8 soft sed. Def - 10' thick -

± 25 med fine-grn, Orange-Brown,

white Grains (with micra?)

785

unknown ss Looks like Pw? Pbn?

ss: Red Brown, Rotten, fine Grn,

35 42 25.6 ± 23' thick to massive bedded,

92 52 8.2 some Fe Banding - Also

thin beds - ripple beds -

786

unknown ss Pw? Pbn?

ss: Buff, fine Grn, Leisegang

35 42 19.8 ± 13' shale pebbles, 10-20' thick

92 52 5.7 mainly Rubble - thick to massive

some X-bedding

Location _____ Date _____

Project / Client _____

787 Pbm Top?

- massive ss, ~30' thick -
previous at # 622-623 -

S.D.: N30E; 60° NE? NW? 35 41 47.3
92 51 42.4
±15

788 Pa?

SS: purple-red to Lt Gray,
Leisegang Banding,
fine-gr, massive bedded
~5' thick 35 41 6.8
92 52 3.7 ±17

789 Pa?

SS: thin to massive bedded,
Tan-orange, fine-gr, some O₂
pebbles, some fossiliferous - in
X-Beds - calcareous in places -
35 41 5.6
92 51 5.2 ±26
Blocky weathering - out ~5'
massive - thin to thick above
~20' above -
- Total ~25' thick -
30-40'

Location _____ Date _____

Project / Client _____

790

2-28-27

- (pts) - Scale

Pbm / Pbm

35 42 11.8
92 47 16.4 ±21

contact covered

SS: Porous-buff, well cemented, O₂ pebbles
med-gr, X-bedded, massive bedded
~2' exposure - in cattle pasture

S.D.: N70°W; 40°E

791Pbm / Pbm or Flow?

35 42 5.8
92 47 21.4 ±12

contact covered

SS: Red-brown to tan, fine-med gr, med-bedded - some Leisegang

- Hand samples -

possible fault: loose ss here -
no def. bands?

~5' exposure -

shale below in drainage



Reverse fault?

dipping E

(792) SS? Pbn? 35 42 2.5 ±27'
92 47 23.1
SS: Buff-Red, med-grn, clay pebbles, sh partings
thin bedded - ~5' thick -
shale below in drainage

(793) SS: ? Pbn?
SS: Buff, Lt. Gray, orange-red, v.
fine-gr, v. thin to thin bedded -
ripple bedded
90' thick
35 42 6.6
92 47 26.9 shale above & below
±20' mainly covered -

S&D: N35W; 6°N

(794) Pw?
SS: GRAY, Limy, fossiliferous, fine-gr
massive bedded - ~20' thick +
concave - withing
35 42 17.0
92 47 38.6^{±10}

(795) SS unknown Pw?
35 42 20.2 SS: Lt. Brown Tan, fine-gr, massive
92 47 40.9 ±21 bedded overlain by thin bedded

(796) Pw? Pbn?
SS: Tan-Brown, fine-gr, micaceous,
massive bedded, 25-30' thick
Top & bottom covered - thin
bedded SS above -
35 42 31.0
92 47 57.0 concave without profile
±27' 11k Pw -
Possible without fossils?
Fault - do ss on W side drainage
@ elev -

~ Fault: N80°W; 63°N Accommodation?

(797) Deformation Bands -

SS: massive, tan-brown,
micaceous, @ this pt
35 42 31.6 ±13 look as if same pk on
92 48 3.4 NIS of drainage -

fault orientation?: E-W; 55°W Accommodation?

(798) Pbn/Pw
SS: massive bedded, Brown-Buff,
Lt. coarse-gr, clz pebbles

Top may be on Bench above 20'?
 Top is thick ~ 20' + X-bedded

~~187~~

True fault plane? N80°W; 61°S

- Noema Fault -

35 42 33.1
 92 48 0.5 ±15'

(799)

Pom/PW

35 42 32.8
 common Canal 92 47 52.9 ±18'

Base 798 -

(800)

Fault. Thin Bedded - Thick Bedded
 ss, Add to massive bedded
 ss. - looks as if reverse
 fault. Faulting at -
 should connect w/pt 798
 797

S. FAULT: S.D.: E-W; 9°S

~~MAINT~~ ~~Pom~~
 Massive PW? 35 42 31.4
 silt. PW massive? 92 47 41.4 ±30

7/1 side
 " looking west by drainage "

- Dipping to S -

To 8' silt sh underlies massive
 SS -

(801)

Probable fault strand Pom/PW?

Base massive ss

ss: Lt brown tan, med-grn, well cemented,
 thin - massive bedded, 20-30' thick
 X-bedded. Blocky. Fin Base? X-bedded
 Hard sample - Soft red clay

Joint, or fault plane -

E-W; 71° South 35 42 32.5 ±24'
 92 47 33.8

(802)

Top 801 N side? Fault appears
 to die out here?

35 42 33.4 ±18'
 92 47 32.5

(803) IPbm / IPbm
 35 42 40.7
 92 47 33.1 $\pm 23'$
 CONTACT CONCRETE
 MASSIVE SS CONT FROM 802

(804) IPbm / IPbm
 CONTACT CONCRETE
 CONT 803 220' THICK

35 42 49.8 $\pm 13'$
 92 47 29.1

(805) IPbm
 Lt.
 shale: Gray with Tan Gray, fissles,
 some small calc. thinning
 Box work frags. 2/5'
 on rd cut -

35 42 55.2 $\pm 16'$
 92 47 16.8

(806) IPbm? or IPG?
 ss: Red, Barre Red, Finkbe, def Bands,
 lichening, pillow sands, fine Grn,
 massive bedded
 ~10' Thick on Hwy

35 42 47.7
 92 47 13.6 $\pm 8.6'$

(807) IPbm / IPbm
 35 43 37.9
 92 47 16.0 $\pm 30'$
 CONTACT CONCRETE
 Top massive ss 220' Thick
 Redish
 ss: Buff Lt Brown, med grain,
 massive bedded limited outcrop -
 or pebbles

(808) IPbm / IPbm
 CONTACT CONCRETE

35 43 42.8
 92 47 37
 TOP MASSIVE ss 10' thick
 Redish
 ss: Buff Lt Brown, med grain
 massive, or pebbles
 $\pm 11'$

(809) IPbm / IPbm
 35 43 59.8 $\pm 17'$
 92 46 59.6
 CONTACT CONCRETE
 S.A.P.

(810) IPbm / IPbm
 35 44 28.3
 92 46 59.8 $\pm 13'$
 CONTACT CONCRETE
 S.A.P.

(811) IPbm / IPbm
 CONTACT CONCRETE - med grain - coarse
 Grn

Location _____ Date _____

Project / Client _____

25' Exposed, Spring base ~ 20'
 35 44 48.3 Below w/Bench probably
 92 47 3.3 Pbn / Pw contact

(812) Pbn
 ss: massive Bedded, micaceous 245'
 Hand sample -

35 42 6.6
 92 46 12.2 ± 28'

3-1-07

Pbn-

(813) ss: Buff, fine-gran, thin Bedded, ~~med Bedded~~
 ripple Bedded, trace fossils Abnt.,
 Bedding Planes V. thin - Medium
 35 41 18.2
 92 51 9.3 ± 13' ~ 6-inch total Bed thickness
 ~ 20' Exposed thickness

(814) Pbn-
 35 41 24.0 ± 20'
 92 51 26.4
 ss: Tan-Dream - Red, med. coarse, Or pebbles
 massive Bedded, Abundant Resegony
 ~ 10' Thick

Location _____ Date _____

Project / Client _____

Scale _____

(815) Pbn
 ss: Tan buff, mica slate partings,
 fine-gran, Thin-Thick Bedded,
 irregularly bedded well cemented

SFD: N80°W; 4°N

Note: possibly slump Block
 - or fault RL to S is fairly flat.

To South of Crest?!

35 41 15.8
 92 51 14.2 ± 18' ~~SFD: N80°E; 10°E~~
 SFD: N30°E; 10°SE
 N-S; 20°E

(816) Pbn / Pbn Pbn ss above Pbn -

Contact Concord

ss: Tan-orange buff, med gran, massive
 Bedded ~ 3' exposed here

Note: To north across Arday
 Appears to be lower
 Higher possible fault.
 N side Arday

35 40 30.7
 92 48 35.2 ± 40'

Location _____ Date _____

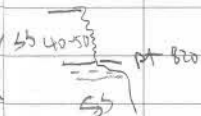
Project / Client _____

(817) Pbm/Pby 35 40 30.8
92 48 26.9
CONTACT COVERED ±18'
- Top massive ss - thin bedded @ top -

(818) Pbm/Pw 35 40 35.6
92 48 32.3
CONTACT COVERED ±23'
Base massive ss on bench
Below - from 817 gr pebbles in
floor
30-40' thick

(819) Pby 35 40 45.3 ±28'
92 48 58.1
Top 10' massive ss. Abundant
liesegang
ss: Tan-orange, med Grn, 10' thick
massive bedded

(820) ~~Pby~~ ~~or Pw?~~ Pbm/Pbn
Thin bedded ss - 240-50' thick AT BASE
thin to thick to massive
Grey shale in bed
35 40 43.3 ±12'
92 49 21.0



Location _____ Date _____

Project / Client _____

Scale _____

(821) Pbm/Pby 35 40 57.0 ±27'
92 52 1.3

Top massive ss - 40-80' thick to bench
NW do not see this ss. But do
see it to due N side mill-creek

3-8-07 Pbm/Pb
~~Pbm?~~ Base? Bench below ~30-40'
(822) ss: Thin-med bedded, X-bedded - trough
X-beds, Brown, well cemented,
35 40 2.0 ±32' med-grn - bedding up to ~14"
92 46 14.2
Red Fe grains, minor honeycombs ~20'
SS: VMOE; SOSE - Hand sample - thick

(824) Pw?
Bench below: ss: massive bedded,
fine-gran, liesegang, orange-brown
35 40 3.2 ±17' ±30' thick pt @ base
92 46 17.1

(830) Pw: ss: orange, fine-med Grn,
massive bedded, faintly
decalcified? Rotten
35 40 12.8 ±28' DATA pt. 230' thick
92 45 29.8
pt @ Base
CONTACTS COVERED
Int. ss in with Pw -
- Thin bedded ss above -
26 inches thick

Trace fossils

Location _____ Date _____

Project / Client _____

(831) Pw? silty shale, siltstone,
Thin Bedded ss -
Bag Sample

15-16
Pw 831

35 40 6.2
92 45 36.0

massive ss above.
This is Ad cut otherwise
would have never seen
outcrop & what is

Between massive
ss of Pw

S&D: N45°E; 5°SE

(832) Pbm/Pw Base contact covered

35 39 58.7 ±18
92 45 43.9

S.A.P. #828-

20' Thick Bench Below ~ 30-
40' Below-

(833) Pbm/Pb_{top}

35 40 2.3
92 45 6.7 ±15'

Contact covered

S.A.P. 828-832

(834) Pbm/Pw Contact covered

35 39 46.4 SS: Buff - tan brown, fine - med Grn,
92 45 24.4 ±25' minor sh pebbles, massive Buff
Red Ditch-

Location _____ Date _____

Project / Client _____

Scale _____

(835) Pbm/Pw

Contact covered

Pbm: ss: Buff - orange Buff, med-coarse
35 39 30.0 ±22 GRN, Qz pebbles, Rd Ditch
92 45 44.2 Massive Bedded - micaceous
Qz pebbles near top

(836) Pbm/Pw

Contact covered

35 39 33.5

92 45 51.3

Top Pbm; 95 desc. in 835 ±17

(837) Pbm? - Rk Quarry - For A.H.

Possible { Pbm
Top?

ss: Thin Bedded, some med-thick
Buff - white, med-coarse
some shale pebbles - micaceous
well cemented
35 39 35.0
92 46 3.1
±13' Mable Pbm at thin Beds
@ top? may show true
thickness -

Pbm?

(838) ss: unknown -

35 38 59.7
92 46 17.1 ±24
Hand sample S&D: N60°E; 11°SE
ss: Thin Bedded, Brown - tan, GRN
fine-grn, sh. pebbles -

Location _____ Date _____

Project / Client _____

839

Pbm?? / Pbn?

ss: Buff white, fine-med grn,
massive bedded ~ 5' thickNote: * Can see dipping downstream
micaceous

Hand sample

- Soft sed def -

35 39 1.9
92 46 33.0

S.D.: N80°E; 24°S

± 7'

Maybe
massive
above
Pbm in Pbn?

840

Pbm? / Pbn?

cont from #839

35 39 6.4
92 46 46.4
± 1.9

841

Pbm? / Pbn

common covered

~ 10' thick ~ 20-30' below

35 39 7.6 ± 2'
92 46 58.5

S.D.: N80°W; 20°N

ss: x-bedded,

Flattens out here - monochlor
339-334

Location _____ Date _____

Project / Client _____

Scale _____

Also thickens up to ~ 30' @ #841
looks like plunging syncline - ???

before today after

842

S.D. Pbm / Pbn

N40°W / 16°NE N40°E; 16°N

S.A.P. -

Deformation Bands oriented
E-W

Joints; N80°; N10E

- at @ end of outcrop -

Fault??

35 39 3.7 ± 2.4
92 46 53.2

843

Pw?

ss: 10-15' thick Below pts 839-842

orange tan, fine-grn, Def.

Bands E-W; massive bedded

intergrading with

appears higher on opp side

Drainage -

35 38 59.1 ± 1.1
92 46 52.0

3-14-07 DKS 39 yrs old today

(844) Pbm? Pap - Pbm -

ss: fine - fine-med grn, brown tan,
liesegang, Iron Banding, white grains.
Thin-med-thick Bedded - to massive Bedded

~40' thick

S&D: N50W; 5°E

pt @ top ss

35 38 43.1 Below Along rd, S
92 45 33.0 ±23' shale w/ some thin
ss -

(845) Pbm?

ss: Thin Bedded, Y-Bedded, Rippled Bedded,

fine-med grn, white buff, clay
35 38 24.6
92 45 28.7 pebbles ~20' thick Fe grains.
± 16' some Lt. Gray Fresh - micaceous

(846) Richmond - S.A. 844 35 38 37.6 ± 16'
92 45 26.5

(847) Pbm/Pou

ss: buff-tan, med grn, Qz pebbles,
micaceous, massive bedded @ top,
minimum outcrop, ~3' thick -
prob covered - Below? ~40-50'?

35 39 16.0 ± 11
92 46 36.4

Scale _____

(848) Pbm/Pou 35 39 9.1 ± 15'
92 47 41.3

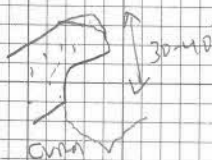
covered covered

ss: Buff - Reddish, med grn, Qz pebbles -
massive Bedded

S&D: EW; 50°N

(849) Pbm/Pou 35 39 9.8
covered covered 92 46 59.0(850) Pbm/Pou
covered covered - min outcrop -40' Rubble - Qz pebbles, Buff, Lt med-
course grn35 38 52.1
92 47 21.9 ± 17'(850b) Pou? Data pt
ss: Tan-orange-Brown, med grn, micaceous
Thin-Thick Bedded, Y Bedded
Def Bands -35 38 53.4 ± 19'
92 47 5.7(851) Pou? RW? - Top -
massive ss Abundant def Bands
fine-med-grn, orange-brown fresh,
micaceous, minor plant fossils,
~30-40' thick bluff

S&D: N40°W; 10°NE Large up to



35 38 59.0
92 47 1.3
± 14'

covered w/ last
weeks def Bands

852

Pbn?

Disrupt. ss: Thin Bedded, Tan-Burgundy,
fine-grn, shale pebbles

35 38 55.5
92 47 1.0 ±17'

S&D: N75W; 9° NNE

853

?? Pbn

1-1-foot

SS: Thin to med bedded, ripple bedded,
shale partings, med-course, fine-med

35 38 42.1
92 46 55.0
±48'

S&D: N65E^{15°} SE

North side

opposite side of drainage seems to
be all shale = fault: ???

→ Lt. Green/orang

854

Unknown? Abl? or Pbn-

SS: Gray, v.f.g., shale partings,
v. thin-thin bedded, trace fossils -

30-40' thick - 35 38 26.0
92 47 34.2 ±60'

S&D:

Pbn?

855

SS: Gray, shale partings, fine-v. fine-grn,
thin bedded

35 38 14.0
92 47 24.5 ±2'

S&D: EW; 5° W

856

Pbn? - Pa?

SS: orange-brown, massive, ~20' exp.,
lenses of Fe bands, solution cut

35 38 6.9 ±8'
92 47 9.6 ±8'

Possibly med-grn - minimum outcrop
Note to me thickness from bench to top ~20'

857

Pbn? Pbn/Pbn? covered

SS: ~30-40' thick, fine-med grn,

Thick-massive, buff-brown, tan,

Blocky -

35 37 31.3
92 46 51.9 ±17'

858

Pbn/Pbn covered

SS: ~30' thick, thin-massive bedded, med-
grn, buff-red - lacks or pebbles,
correction, or pebbles present -

3-15-07

35 37 26.9
92 46 27.8 ±22'

859

Pbn (Pbn)? covered

Top of SS: buff-brown, med-course grn,
massive red, total thick ~3-4'
X-bedded - or pebbles in flow
min outcrop

35 38 40.7
92 48 41.9 ±19'

860

Pbn? Disrupt? Pbn/Pbn?

lt brown-buff-red, med-grn-course,
massive bedded. Extra side
2.5 ft beds

S&D: N60W; 20° W

?? Fault: N20W -
Along creek?

35 38 36.8 ±9'
92 48 39.5 -

opposite side drainage
West side change in dip
Loose massive beds west side
West S&D: N80W; 60° W

(861) Pw Base Concret -
 ss: Brown, fine-grn, concave
 w/ thrd profile, massive bedded
 ~ 30' + (N-Dip)
 - at @ Base - some def bands in
 35 38 32.0 ± 22' flint -
 92 48 40.0

(862) Pbm/Pbu concreat covered
 ss: Brown, med-coarse grn, massive
 35 38 29.2 ± 17' or pebbles, 10-15' thick
 92 48 48.1

(863) Pbm? or Pbu?
 ss: Brown, coarse-grn, or pebbles
 - 10' Exposed here - in 250-40
 linear foot outcrop -
 35 38 24.1 ± 15' x-bedded - l. resurg. Abundant
 92 48 53.0 Fe - Note: prob. Pby ✓
 at @ top
 s+d: NBSun, 11.5
 - Sample -

(864) Pbm/Pby concreat
 ss: Brown - buff, med-coarse grn, or
 35 37 49.4 ± 27 pebbles, massive, 240' + thick
 92 48 59.4 Both sides Creek
 s+d: N75°E, 30NW

(865) Pbm/Pbl-Pw 35 37 38.9
 concreat covered 92 49 55.9 ± 21
 concreat ~ 40' Above pt
 ss: Brown-Tan-Red. med-coarse grn
 thin to massive bedded -
 thickness undetermined
 mostly concreat use tip as #864

(866) Pw? Data pt
 ss: thin to med bedded, fine-grn,
 Tan-orange-Tan, Fe bands
 ~ 75' thick Def bands in flint
 s+d: N80°E, 160NW
 35 38 31.1
 note: looking for Abm - 92 50 23.3
 ± 63'

(867) Pw? Data pt
 ss: Brown-orange, fine-grn,
 Abm Fe, massive bedded ~ 5' thick.
 at @ top ss - Pbm flint above +
 Below - 35 38 75.0
 92 50 34.6 ± 18'

(868) Pw Data pt
 ss: Brown massive bedded, calcareous
 shale pebbles, fine-grn,
 Fe bands - 30-40' thick -
 35 38 58.2 ± 16'
 92 50 29.6

(869) Pbm/Plw covered
 ss: Brown Bluff Red-, med-grn,
 35 38 42.3 Qz pebbles, thick bedded
 92 50 49.9 ±17' primarily Boulders here

(869b) P₅?
 ss: Thin bedded, fine-med grn, Tan-orange,
 35 38 57.4 ~ 4-5' thick - regular bedded
 92 51 47.3 ±20'

(870) P₅?
 S.A.P. # 870 ~ 15-20' thick here
 Thin bedded - some with surfaces
 appear more thick bedded

35 38 36.0 ±20'
 871 92 51 55.8

(872) 3-16-07

Pbm/Plby covered
 36.2 ss: massive bedded, Bluff-Tan-Orange
 35 39 26.7 ±26' med-grn, ~ 50-100' thick -
 92 50 41.3 ±9 Good Bluff - some Qz pebbles -
 49 59.2 - Actum ~ 20' above pt - see
 thick to massive above Bluff

(873) Pbm/Plw covered
 26.2 Base est. north - Large Talus
 35 39 18.7 slope low small boulders -
 92 50 8.0 Shale Below - Gray Fizzle
 ±8
 - pt. silt low - at low

(874) Pbm/Plby covered -
 18.7
 35 39 4.2 ±20 cont. from 872 -
 92 49 15.5 still see ss ~ 20' above on
 50 8.0 Kuds -
 874

(875) Pbm/Plby covered
 ss: Brown, Tan Fresh, others Lt
 35 39 4.2 Tan white - med-grn
 92 49 15.5 massive bedded ~ 20' thick
 100' S 70° N 85° E; 40° N
 * still see ss ~ 20' above *

(876) Pbm/Plby covered 35 38 47.8
 875 92 49 42.6
 Top 20' above pt -
 S.A.P. ±26'

876 ss: med-grn; 10° SW

(877) Pbm/Plby covered FAULT.
 33.7
 35 38 23.0 ss: Bluff - med coarse, Bluff Bands, 10' off center
 92 49 37.0 ±15' Qz pebbles, 20-30' thick - soft sed def. m.c. pt, sh. pebbles