

10337

June R.P. Ross

DOCUMENT NO. 838^{2 of 2}
Invertebrate Paleontology
Yale Peabody Museum

Field Notes Book 2

Central States Ordovician-Silurian

May 26, 1995, to June 14, 1995

Mieklejohn Peak, Nevada - 6/14/1995

[ref. to several 1998 coll. in last 15 pages]

1995. Central States Field Trip.

May/June 1995

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Please return to:

May 26 - June 14, June R P Ross
1995. Dept. of Biology.

Book 2
of 2 books

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5/26/95. left Beechmont/Withamsville
- took I 275 to US 27 ^{having} crossed into
Kentucky.

(Highland Hts. ^{Ky.} \$1.25 lunch)

Followed road - log of Meyer + Tobin (1981)
Stop 1.

Ky 9 route 2 1/2 miles S of Alexandria
at intersection with US 27

Picked up Ky

Near Meldahl hook + ham, Ky side

(45) Rd + old X on south side of Ky 8 at
junction with Ky 1109. Old X at intersection
63 ft Point Pleasant - no top or
bottom contact in this X

1 B+W photo of old X face. Greater
thickness of shale intervals in lower
1/3 of X face. But 450 yds west on highway
there is a new X face that shows
considerably greater thickness
than stated by Meyer + Tobin (1981)



5/26/95

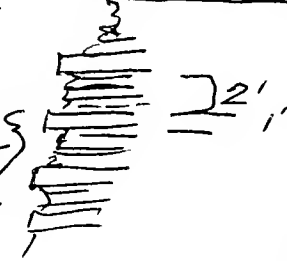
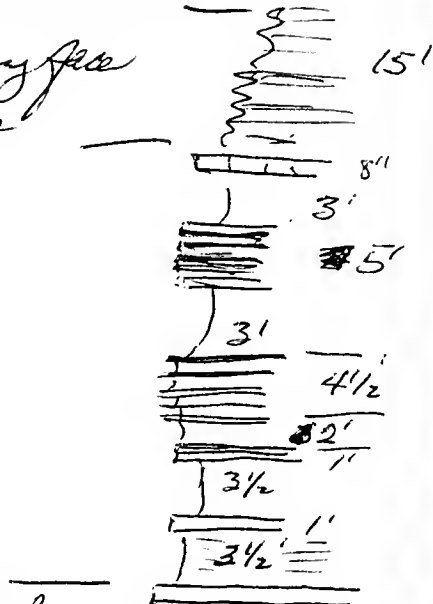
2 B/W photos of newer quarry face
v. thin ls. + much shale

Meyer et al. stop 1

cont'd from prev. page

Rope

Pt Pleasant



65+

ls. ledge 3" to 8" to 12" thick
separated by silty/shale 1" thick
with thin 1" lime band

Some of the thicker ls are
calcareous and X bedded with

2-3" ripple marked base

some silty beds are burrowed
and disrupted

B/W photos

5/26/95 (HP) Meyer et al. Stop 2 - Ky. Hwy 8
(1981)

Slumped outcrop of lower ~~8~~ Kope Fm.

Slabs of browned calc. siltstone and some
calcareous ls. with small brachi; some
bed of small columnal (encrinites) - columnal
sandy siltst. with laminate bedding, Xbedding.
Some bluegray siltstone/shale associate with faint
calcareous. ^{are very common} Burrows are common in all lithos.

Shale is gray Coll. 5/26/95/HA float in
lower few ft. of Kope Fm.

Took Ky 1109 south to Ky 9 (AA) road
Extensive cuts from intersection Ky 9 &
Ky 1109 east-southeast to Maysville

"Thick" subbly bed at or near base
of what we are taking to be
Fairview Fm in Mayville on US 8
coming down ^{long hill} from Hilltop shopping center
to ~~Low~~ Mayville.

Information Center at Mayville closed at
4pm - it was 4:30am

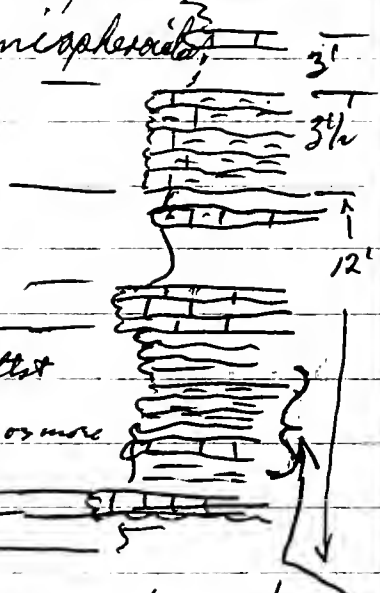


5/26/95 Bluegrass Center 1998 adjacent to
 Returned to top of hill & water tower

(47) Hilltop shopping center on US 68
 rock cut in back of parking area of
 shopping center. Coll. 5/26/95 B - float
 - at least 2 lithologies

orthocerid, calymenid brachs. isolated
 large "Hebertella" - 1 1/2"; Platystrophia

bivalve, gastropod, hemispheroidal
 siltstone, calcareous, laminated
 2"-6" beds, prominent ledge



Calcareous, fossil, 2"-5" beds.

Calcareous and siltst and sandy fine siltst
 in 2" to 3" beds, shale makes up 50% or more
 of this interval

Calcareous 5"
 silt + thin calcareous

parking lot

Collection 5/26/95/B

See J H Peck, 1966, USGS Bull 1244 B, p. B-4 + B-5

The locality is in the Bull Run unit or higher??

(Is this comparable to Carr Hill
 section below Whitewater / Saluda
 units?)



5/26/95. S. from Maysville on "plateau"
Ky 1448 intersect w. Ky 11 - excellent
exposure to N. of intersection -
on top of plateau

On top of plateau ^{waves} modular (late)
w. a little shale & more shale
comes in as you go down the
strat. section. Massive bed at
top of wavy-bedded

Excellent sections on Ky 11, S. of
intersection of Ky 1448 & Ky 11; also
N. on Ky 11.

See AA = Ky 9 W. of intersection
with Ky 11. Ky 9 road sections

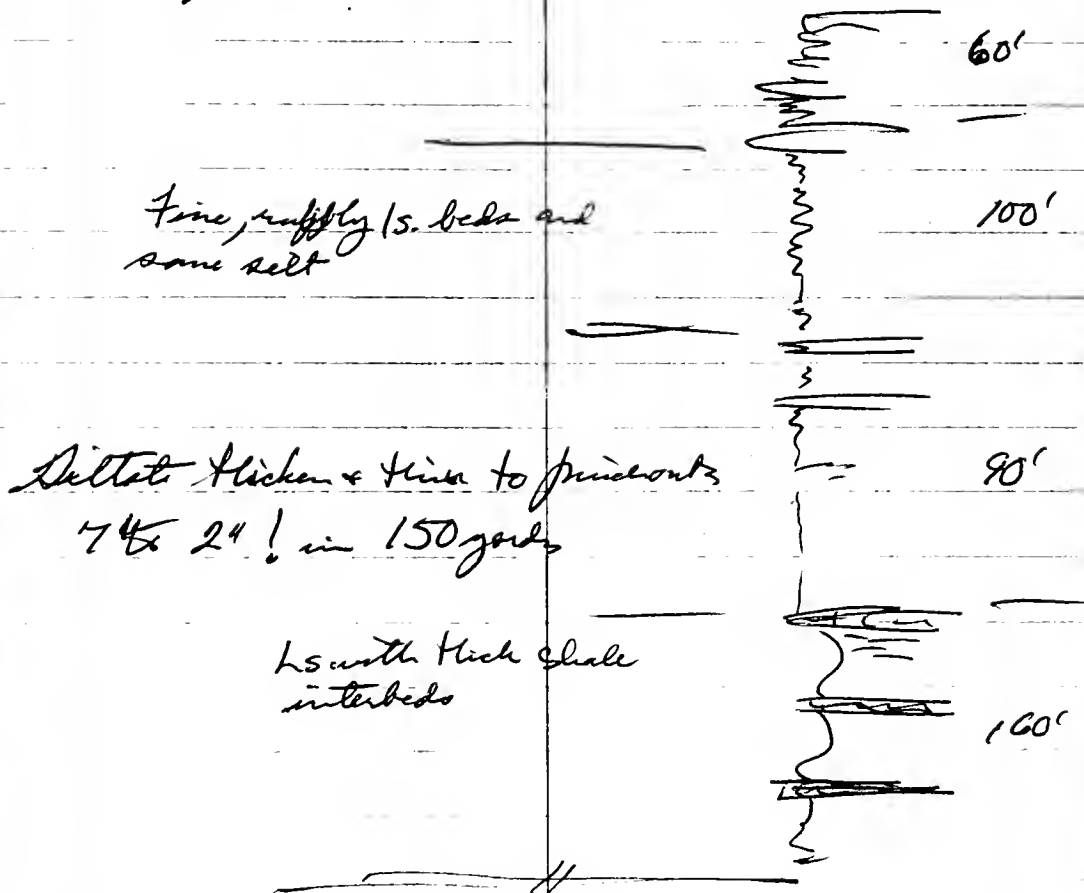
West of Bracken Co. line on
Ky 11 extensive road sections.
? (TP. 6/98)



3/26/95. - Kentucky has a series of excell. outcrops
from Mayville to Covington.

Section seems to 'shale' up from Mayville
to southeast edge of Covington.

Rope seems to expand (shale) upwards into
overlying lower part of Bellvue.
Most of the shale beds Hicken & Hine



Drove to Flemingsburg to try to locate a Holland exposure
there, but we were unable to locate it; seems
to be all grass covered. Perhaps Holland's description of
locality is not correct?



5/27/95 (148) (Exit 79 on I 275 - 1998 data)
Reidlin (Mason) Road - road
cut starts at intersection of Mason Rd +
Ky St. Hwy 16. See p. 50, Fig. 20, Tobin + Pryor
in Meyer et al 1981. road log, Softball field
& B+W Photos. Kope Fm below + ^{Taylor Mill, Ky} overlying
Fairview Fm. 1st photo of contact between
2 fms; other photo shows mainly
Fairview Fm + some Kope Fm below.

Kope has "2m" cycles of ^{fine} siltstone / calcareous mudstone
Lower 10' of Fairview includes some v. nodular ^{in siltstone}
(Parking area W of road is ^{cut} into a softball playing field
Fairview ^{ls} have ripples 1"-2" high and 2' between crests

Collection 5/27/95 A - Bryozoa from lower part of
Fairview ^{ls} 30' above base of junction.

2 Photos B+W. 1 above (just) level of
parking area + another $\frac{1}{2}$ way
up hill (middle of Fairview Fm)

1998 - 1 photo of top of ^{thinly} bedded
rocks (4x) 1 photo contact ^{rocks} between ^{ls}
overlying ^{thinly} bedded ^{ls} rocks
1 photo further down cut - pack ~~stone~~

4-811

(54)

- 1998 — thicker calcarenites are p/9 with almost in place brachs & bryos, — ripple bedded,
- 1 photo — below prev. photo
- 1 photo — " " " "
- 1 photo — west nr. parking area
- 1 photo — toward west incl. lower half of sect
- 1 photo — opp. softball entrance (St. Elizabeth Sports Medicine Center)

~~1 photo — ...~~

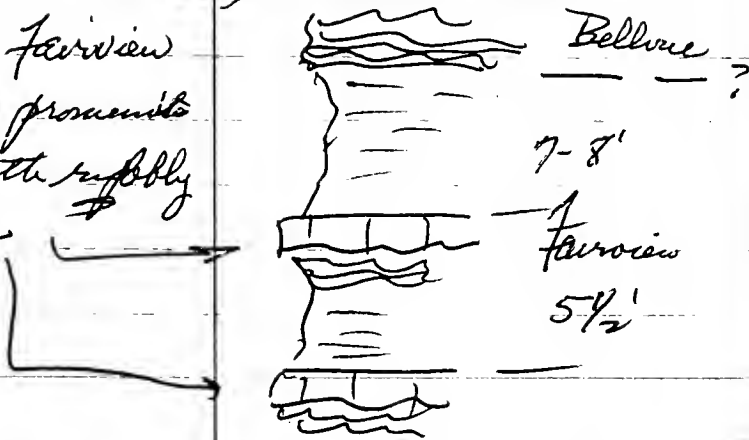
~~1 photo — ...~~

~~1 photo — ...~~

~~1 photo — ...~~

5/27/95 2 B/W photos ^{at} top of Reiklin (Mason) hill.
 Bellvue - thin, ripple beds with a 1" to 1 1/2"
 shale (Miamitown Sh.) at about 12'

Ls. in top of Fairview
 has sharp prominent
 contacts with ~~ripply~~
 beds below



See p. 35 & others.

most are

See also Reference in *Algeo, Tr. and* ^{2 1/2 to 3 1/2 gals}

Dattilo, B. 1992, GSA Bu. *Mt. Field trip. Oct. 25, 1992*

We went down into Covington looking
 for Information Center (maps!) - no I.C. -
 we were referred to Welcome Center
 out near Florence so took I-75 & stopped
 at Florence Mall to wh. we had been
 referred. No luck. Referred to Rest Area
 about 3 miles S. of Florence Mall. Finally
 we located an Information Center
 & maps. ~~See Contd~~ on I-75 to I-74 then
 I-74 to I-265 to I-65 to Elizabethtown.

Torrential blinding rain & hail at exit
 to Elizabethtown. Motel β just to right of exit



5/28/95. Elizabethtown.

Packed rocks

5/29/95. Elizabethtown.

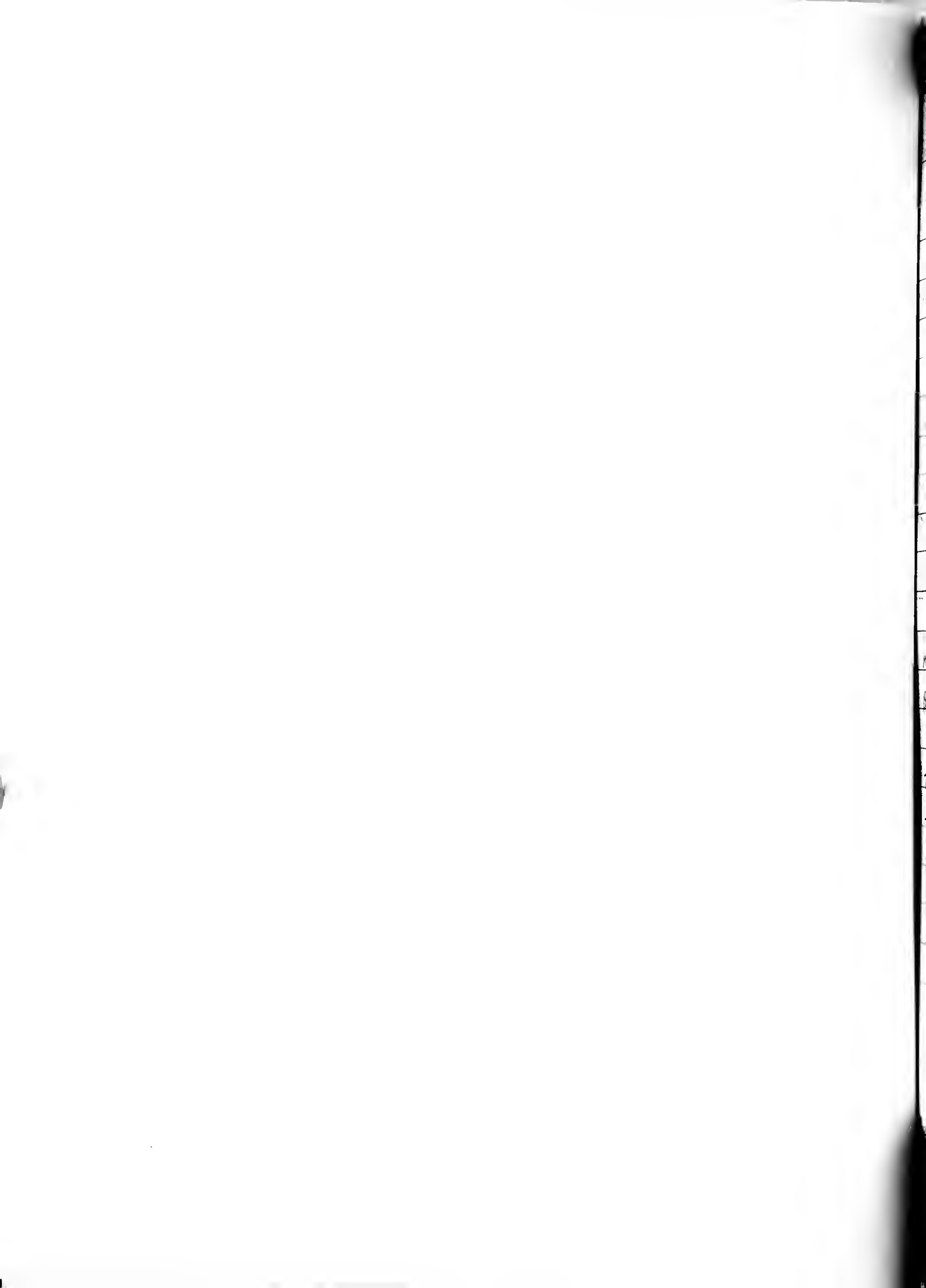
Packed rocks; reviewed field
locality data; plotted loc. data;
established schedule for coming days
Free Will Baptist Church at Heartland
worked at the picnic table in the
shade.

5/30/95 left Elizabethtown after shipping
2 cartons of ~~7x~~ via ~~MRP~~ UPS.
Travelled Non. I 65 to Louisville &
Jeffersonville. Checked in at motel.
Ate lunch Circuit City, Clarksville

I 65 north to Seymour^{IN}, turn E. on US 50 to
North Vernon & then to Versailles. Went N to
Osgood. ~~Ind~~ on US 421 looked for ocs^{to E} on
Ind. 350 - they are all grassed over. Cont'd on
Fox (1962) Strat. sect. 13 - Versailles just S of town
Cones - \$1.37^{IN} Ind. 350 to Moores Hill; we did
Versailles Non Indiana 421, then at ^{photo}
Osgood turn E on Indiana 350 - no
road cut exposures. All of them are
grass-covered slopes

William T. Fox
Borrow W. T. Fox's Ph. D. dissertation
from Northwestern University 1961

Hill E of Versailles ^{on US 50} down to entrance
to state park entrance, shows some
exposure. A better exposure is on
other side of creek valley, 0.1 ^E from Versailles
city limits _{miles}



not find any unexposed sections
around Mt. Forest Hill.

We backtracked on Ind 350
to Milan & went S on Ind 101 5 miles
to US 50. Went E on US 50
Dillsboro where ^{we} did not find
much exposed.

We backtracked on US 50 to
Versailles.



5/30/95 (cont'd)

Took Indiana 129 South from Versailles to just beyond Cross Plains where we picked up Ind 62. We went SW on Ind 62 ca 4 miles where it was joined by Ind 250

2 miles W of ~~Canaan~~ Canaan drove $\frac{1}{2}$ mile to top of hill - some exposures. We then backtracked on Ind 62 to Canaan - there were some exposures here & there 2 miles W of Canaan. From Canaan cont'd on Ind 62 for ca $4\frac{1}{2}$ miles toward China. We then turned W on Ind 250 for ca 1 mile where we picked up US 421. Then just N. of Madison we took Ind 62 bypass around Madison to Clarksville?



5/30/95

5/31/95. left Jeffersonville on I65 to Sellersburg; then took Indiana 403 to Charlestown where we took Indiana 3 north to meet Indiana 362, then Indiana 62 to ~~the~~ west of Madison. Discovered at Clifty Falls St. Park entrance that there was a charge of \$2^{/car} for Indiana residents & \$5/car for out-of-state cars. Contd on Indiana 62, Picnic bench at Clifty



Holland (1993) Madison No. 3; roadcut
 5/31/95 on east side of US 421, 3 miles SW of
 intersection with Indiana 56 in Madison, IN.
 shaly bed

(49) (Note: There were ↑
 2 collections labelled 5/31/95/D.
 We've labelled them D₁ + D₂

5/31/95/D₁

Massive weathering siltst
 v. silty upper 2'

Wavy bedded siltstom
 + ls. with large molds with organic impressions
 a few thin sh. siltstom
 Siltstom
 Fossils?

Tetradium bed

ls. + siltstom

Siltstom, dolomite, 2"-4" wavy bedded

ls. sh., very discontinuous 2" to 3"

ls. brachs, (Tetradium?), dark 4"-6"

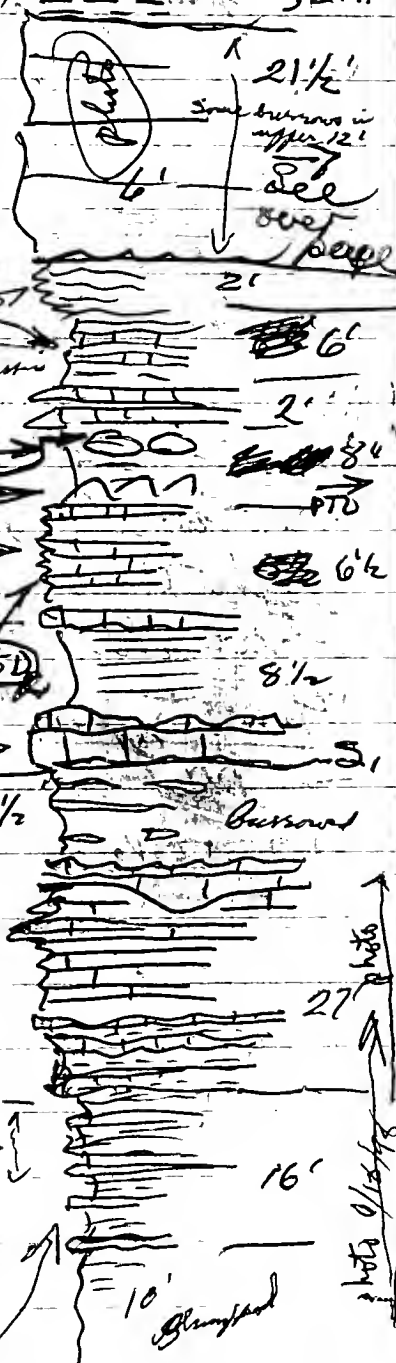
Transitional interval between siltstom
 above and ls. + siltstom below
 ls. v. discont. in upper 3'

ls., v. irregularly bedded, 2" to 6", iron
 stain common, with about equal
 amounts of silt, shale,

Very shaly top 6'

Siltstom, greenish gray, brachs, corals, bryoz
 some burrows, with 20% calc. concretions
 2"-4" ls. beds which thicken & thin
 in 10m. along outcrop

5/31/95 A



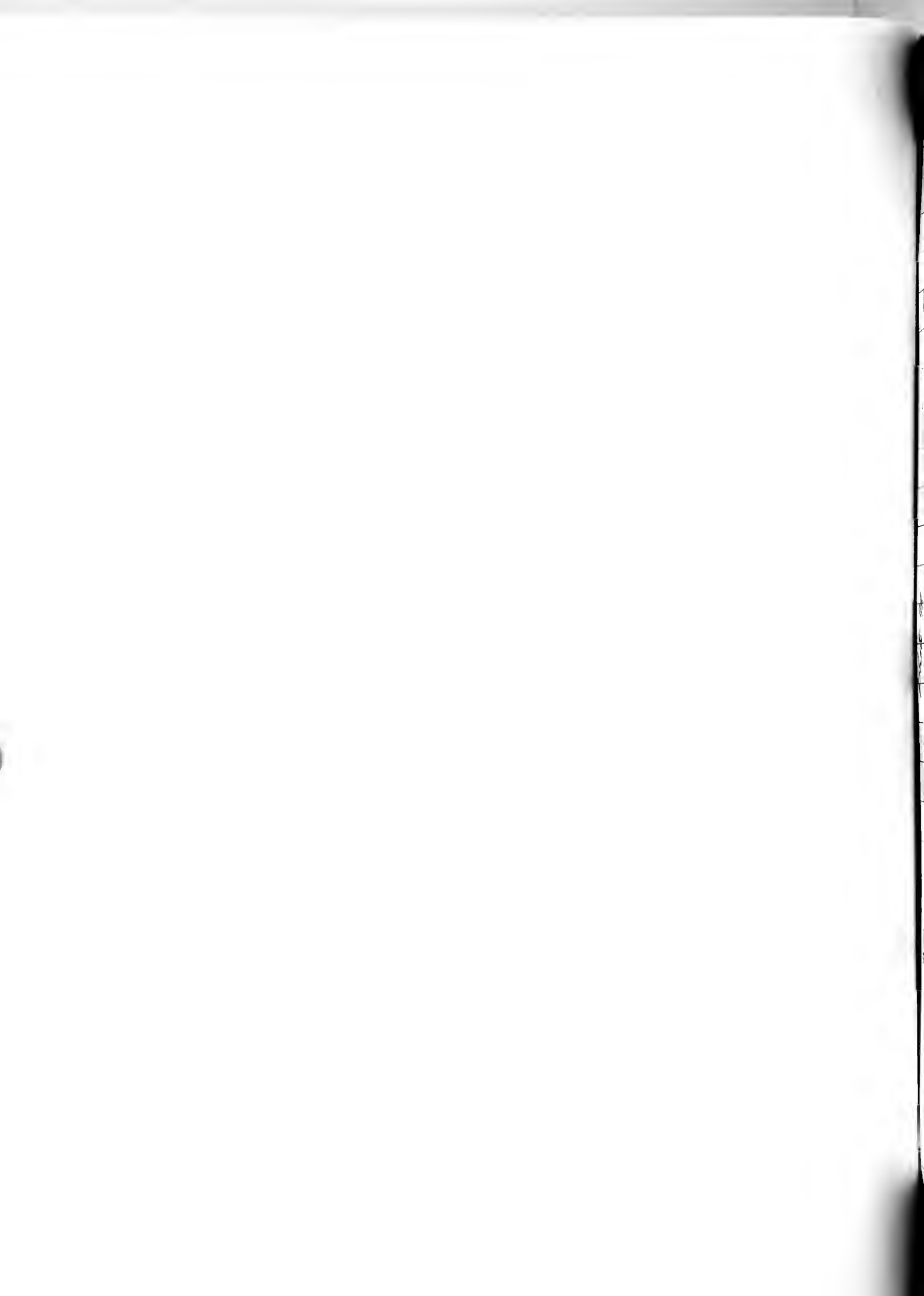
lower part of hill
 nr rd junction to China +
 Rilleboro



PTO "A" 2 beds with coral heads "Palaofavosites" lower one is
jumbled up (reworked?) (photo)

(94)

Discovered that ^{different} 2 collections were
labelled 5/31/95/10. So we've labelled
the collections 5/31/95/10, & 5/31/95/102
but it is only our "guess" that
the smaller collection came from
higher in the section - thinking
that this collection has the
"Homotrypa" horizons.
But we need to check these
samples.



5/31/95

Madison No. 3 (cont'd)

Sharp contact

Dol. massive
moldic

~~Shale~~ Breunell

MFS? shale breaks

photo 98
cont.
note

Shale, gray silty brownish

S?

photo 98

more silty upper part

Dolost 2"-3" ledge + silty
interbeds

Dolost. 6" to 18" - conglomerated channels

Dolost with cohemerals, N. silty

Highland shale, dk brown to blk,

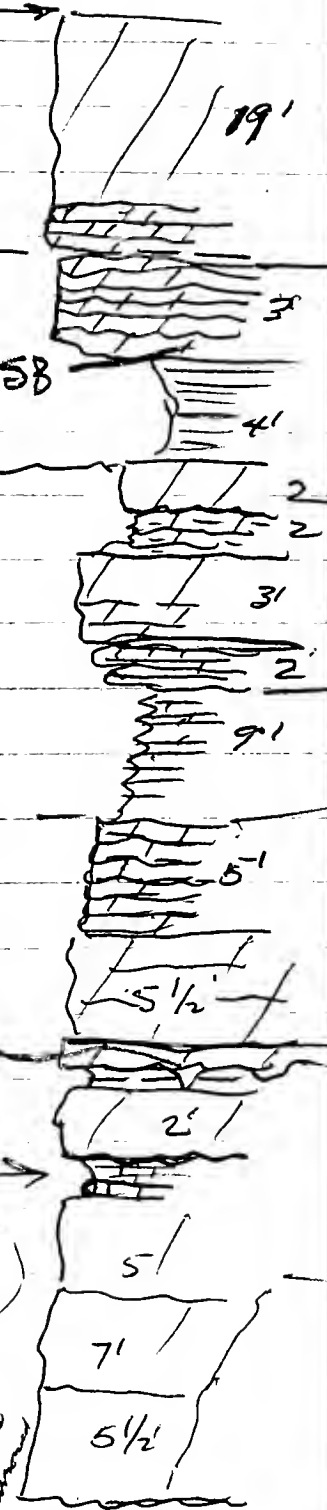
Crushed, red pyritic lgye

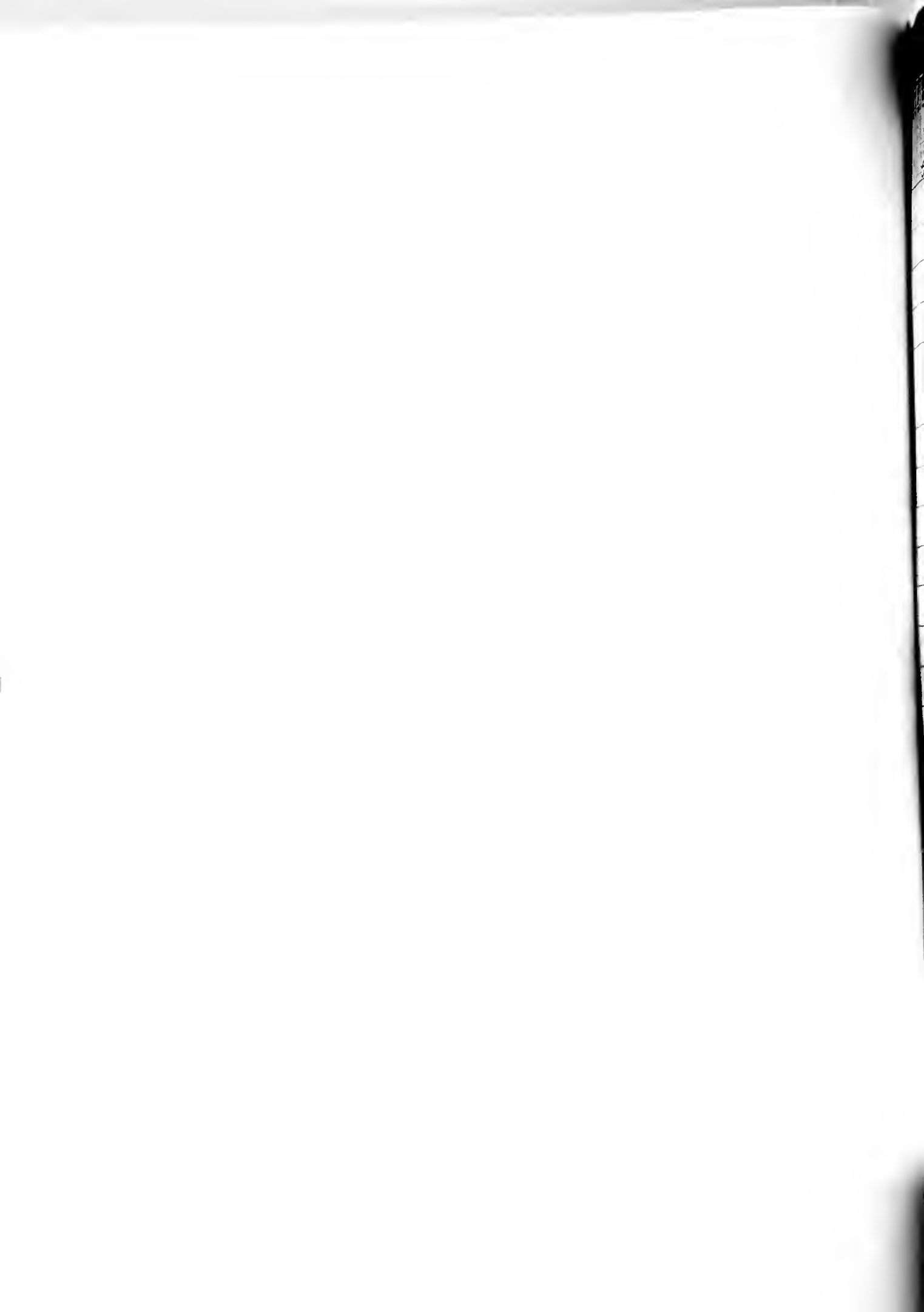
Dol. silty, massive

5/31/95/C
tin CR pocket
4/18/98/G

water fall

↑ some
layers are
laminar

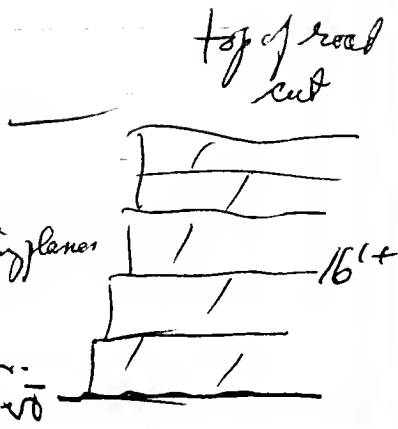




5/31/95 Madison no. 3 (cont'd) p. ~~3~~ 3

Photo 98
top cut
looking down
(faint on rock)

burrowed, some fossil concentrate bedding planes
in 1' to 3' beds no large
dolostone slightly pinkish yellow
↑ 20





5/31/95 Bedford Section, Holland (1993)
 Roadcut on US 42, 2.5 miles east of intersection
 with US 421 in Bedford, Ky.

(50)

(See 1998 field note for 6/17/98)

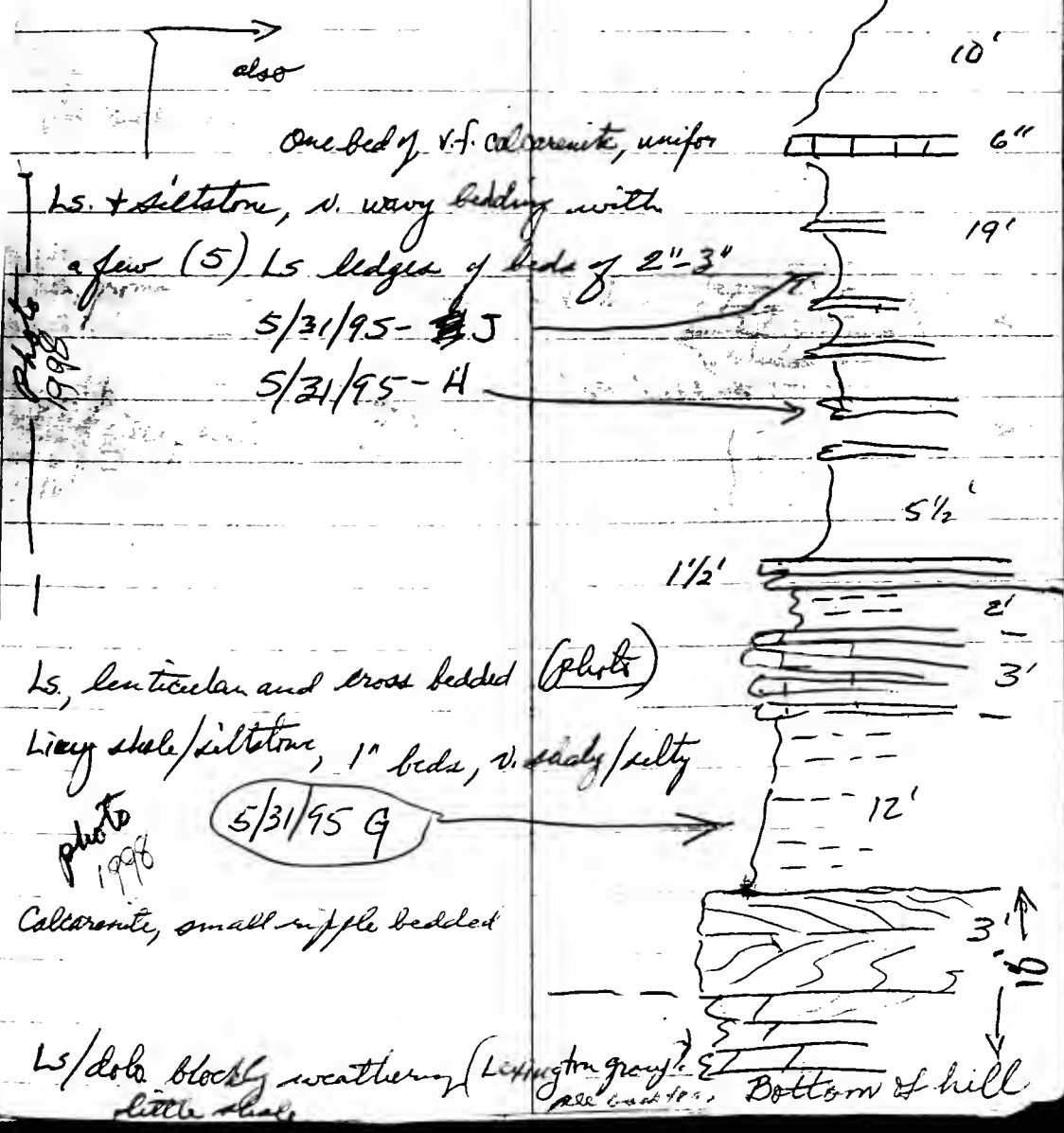


photo
1998

photo
1998

Ls, lenticular and cross bedded (photo)

Limey shale/siltstone, 1" beds, v. shaly/silty

5/31/95 G

Calcarenite, small ripple bedded

LS/dolo blocky weathering (Lexington gray?) little shale
 Bottom of hill
 all contact



30

28/12/78

X-bedded calcarenite

photo

18' some see page



10'

ripple bedded fossil calcarenites & siltstones

photo

15'



Name diagram 28/12/78



5/21/95

Bedford Ky

22

Section on
page 3 on
top of this
section

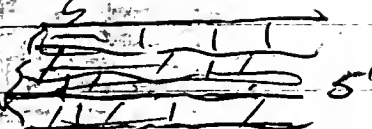
Covered

bedrock

Poorly exposed ledges of ls. + siltst

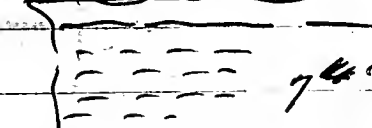
30' +

ls. prominent ledge in 2nd road ^{cut} from bottom



5'

ls. + silty + blue gray siltstone



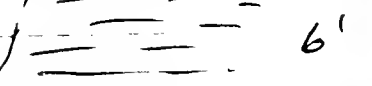
7 1/2'

1998 photo
last frame

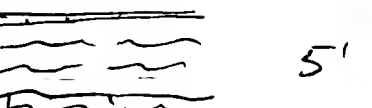
Siltst, nodular ls., with a
few ls. ledges. blue gray



1'



6'



5'



10' +



Covered below
P.1 section down below



5/31/95

Bedford p 3
Toward Top of hill Third road cut

This section lacks the thick siltstones of the Schuda and the "upper" Whitewater. Two unconformities near top part of truncate underlying unit toward the east in third outcrop. - Section is thin also because it has Lexington at base.

8' seen

dolost, lower 2' ripple marked with some silty interbeds, upper X bedded calcarenites

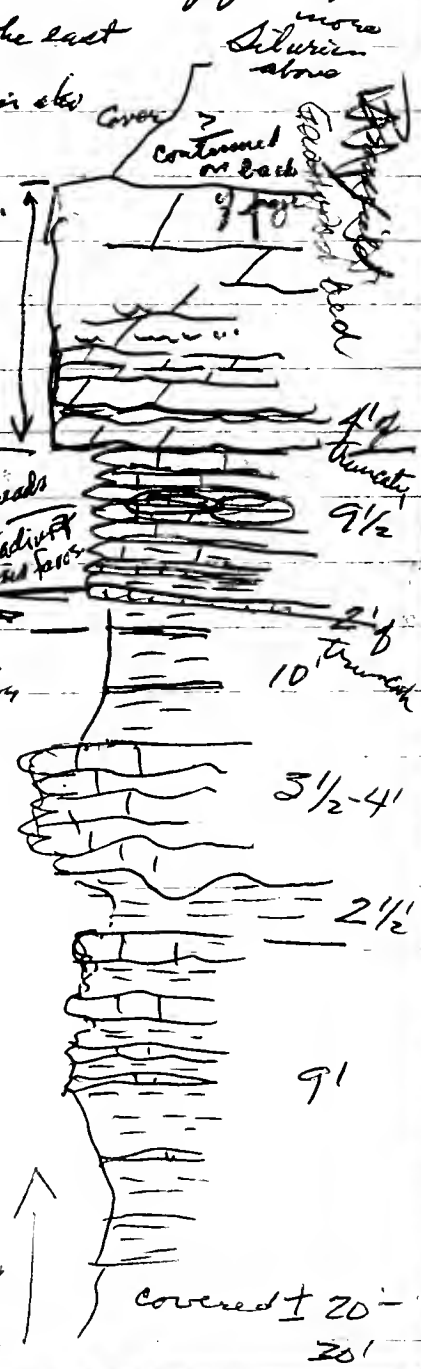
dolo limestone + blk shale with many small 1/4" - 1/2" nodules

7 sharp contact & transgressive beds 1 1/2 to 2'

Siltstone, some 1" ls nodular beds

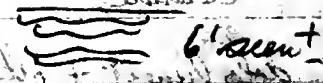
Siltst + ls, iron stains

2 photos + sketches
roadcut + clean up





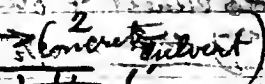
deeply weathered dolomite at top Sil



6' sect

of old cut.

(C-25)

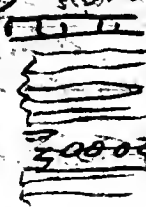


2 (concrete structure)

fine grained calcarenite & siltstone

siltstone & weathered dolomite, slabs with rip up clasts (2" - 3") ledge of calcarenite & siltstone

55



Stems heads 15'

12'

gray siltstone



5'

fossil calcarenite & siltstone

Coll 6/17/98-A



5'

20'

30'

30'

30'

3'



5/31/95. Bedford road cut (contd).

At least 6 B+W photos taken here. They were all taken in shade (3:30pm onwards).



5/31/95 Rd from Milton to bridge on ^{Ohio R.}

Road cut exposures on US 421 on
Ky side. Road (long grade)
Rd cut shows features in general
similar to Bedford rd cut exposures
but laminated siltstone of
Sabuda were present.

Madison

Rd exposures on Indiana 56
west of Clifty Falls State Park
entrance. long sequence
shows more of Kope Fm than
we saw on US 421 at NE side of
Madison town. This Clifty section only
goes into lower part of Brassfield
Fm whereas US 421 (NE side of town)
has a far more extensive succession
of Brassfield Fm

See Guidebook

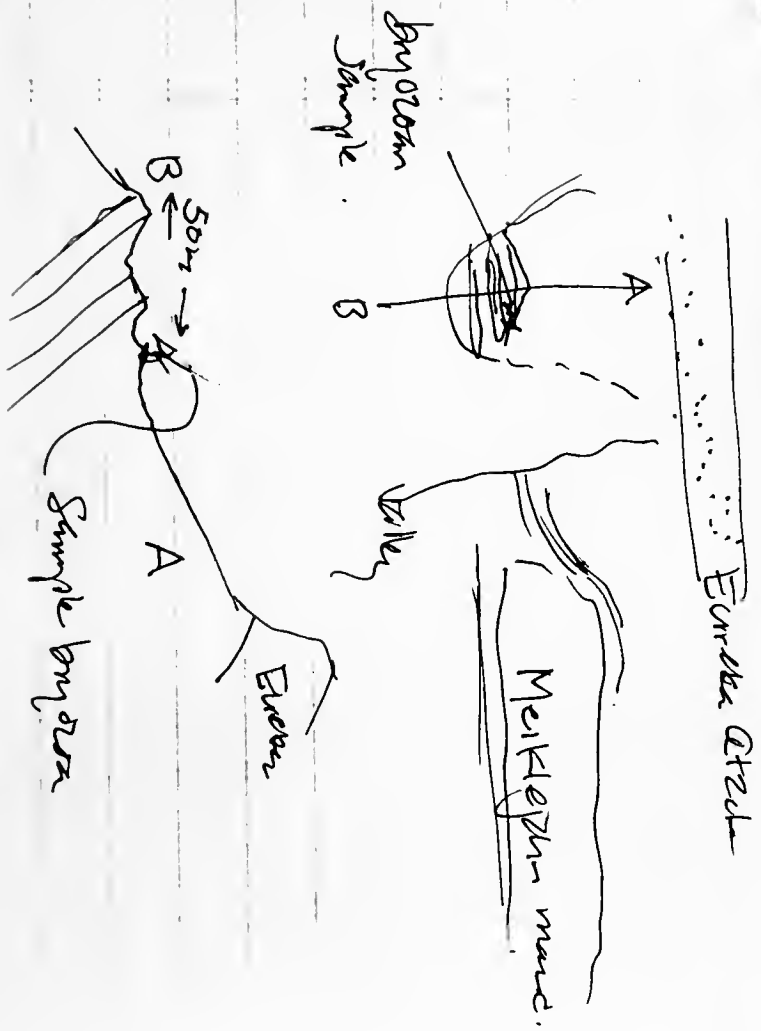
6/14/95.

Coll. 6/14/95/A. Bryozoan coll. made by Russell Shapiro, U.C. Santa Barbara. Float. Southeast side of Meiklejohn Peak, Base Mountain Quadrangle, Nevada. Antelope Valley Formation. Float probably from mound (or just below mound). The mound is within the range of zone L.

See Ross, B., *et al.* 1995. Mid-Symposium Field Trip: Las Vegas to Meiklejohn Peak near Beatty, Nevada, p. 51-62. *In*: Cooper, John (edit), Ordovician of the Great Basin: Fieldtrip Guidebook & volume for the Seventh Internat. Symposium on the Ordovician System. 151p.

(6 pieces of rock)

Coll. 6/14/95/B. Float collected by Paul Cooper. See diagram of locality over the page.



Paul Cooper, Laurentian Univ.
 Subbuss, Ont. Canada
 6/14/95/B - float

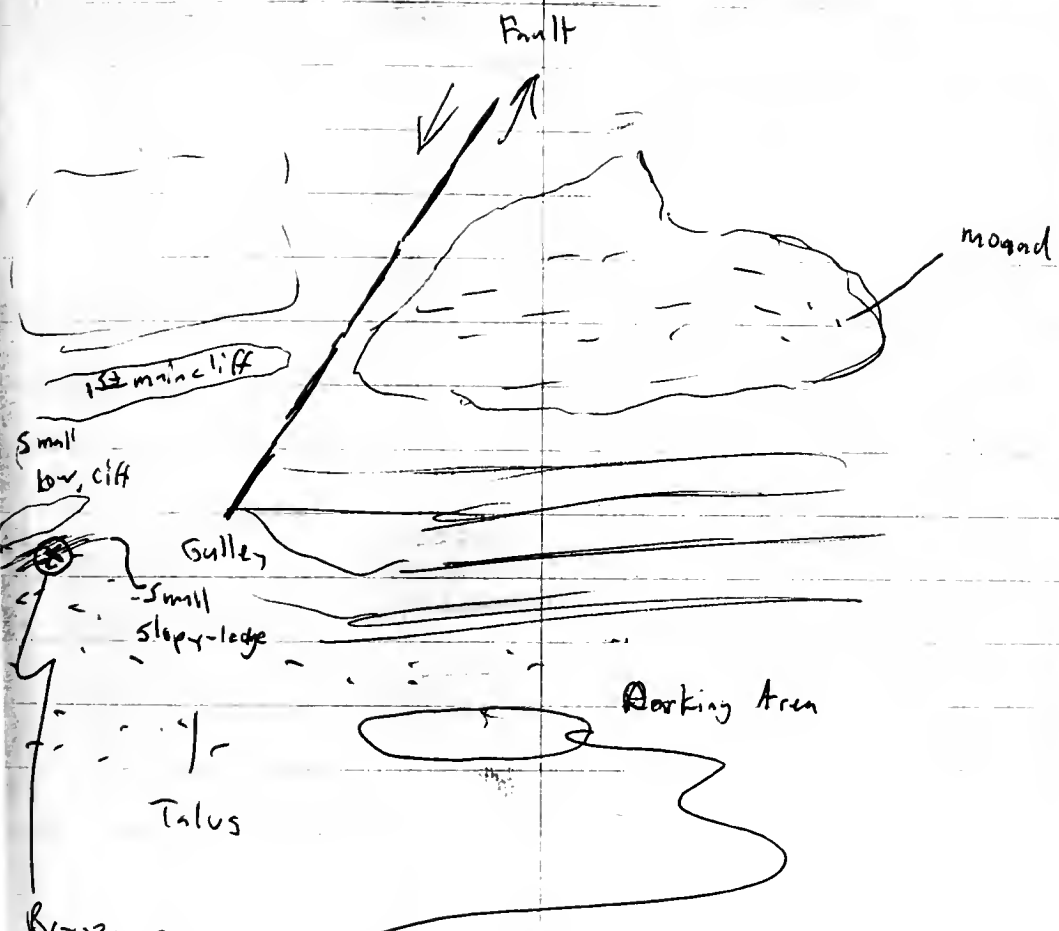


part Grindstone
Possibly Oct 7 or 8, 1911

Dr. Melkel John Park Collection

House mts of Antelope Valley

View from Tower



Biota zones
 as w/ many
 trilobites (sandy tan shale)
 Gryph. is a like? brachiopods
 But below just Palisotia? snails
 and corals.

FLOAT
 Reub Ross says this is
 float from the mound

Russell Shapiro, UC - Santa Barbara



David Daithe { finishing his
Ph. D. Dissertation
- work on handgrounds.
Robert Sloan commented

Origin of Mammals
Reptiles.

