

K&E

LEVEL BOOK

82-0010

↑ 68' Glacial Till,
* Sand, gravel.
50 New Albany
* SW (Dev),
50 North Vernon
* LS Dev
(Dev) 104' Jeffersonville
3 1/2' ↑ Geneva Dolo,

Mingissinewa
SW. Member
of Wabash Fm
(Sil)

Mining in the
N. Vernon reached
by a shaft with a
4:1 grade,

Martin Marietta
Aggregates Underground
Mine

Stapor / Barrier Isl. &

Sea-level Curves,

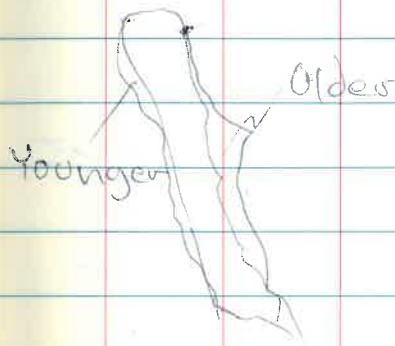
① (Gaspiolla ^{900 ft to} - Sanabe)

② Fluctuation of sea-level
 ± 1 m about present
day

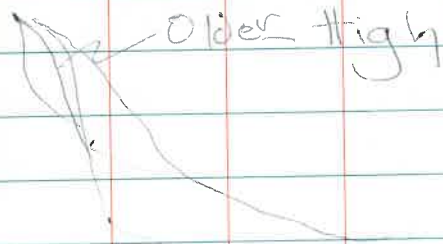
③ Each sample on large
single mollusk shell

~~old~~
intermed. } Gaspiolla
younger

Lacerta



Large age range =
Extensive reworking
simplified



(Sea level ^{young} response to visco-elastic behavior of crust)

(Clark, Farrell, Deltier, 1948)

Sea level fluctuation
response at 500 yrs
cyclically.)

Questions (P)

Storm Deposits

vs. "long term progradational
deposits"

Robbin, Daniel M.
Keys & Reef Tract
data vs. Sea Level
Curves,

Soil stone Crust -
Form on bedrock
beneath soil.

1) New relative curve
slow-fast-slow

Wanless, H. R.

Mangrove Reefs (N.
end of Key Biscayne)
From Black Mangrove

Mar. 22, 2000

Site visit to S2, T/S's,
R22E,

Visit to ~~the~~^{A.} sink in a
retention pond. Lime-
stone exposed in
walls. G. Phelps noted
the existence of these
features to Phil Howell
and reported that
collapse occurred
very soon after 1st
significant rainfall
on to newly dug
retention pond.

Bottom of the retention
pond was flat, the
area was ~ 2 meters

below the surface
(2 m deep).

The property in
question was covered
with thick sand
which had been
repeatedly surrowed
and graded. The
sand was gray &
contained variable
amounts of organic
matter. Limestone
float was observed.
Limestone was
not observed near
the surface in
place. In the
subsurface has a

pinnacle configuration
then bulldozing
and grading could
have sheared off
pinnacles and
produced float.
Alternatively,
the float could be
landscaping
material from
a previous land
use, the "Six
Guns" attraction.
We next visited
a small pond B
with cypress trees.
There was peat
in the bottom of

it and hand augering
showed sand to lie
directly beneath
the peat.

The city engineer
augered on the
banks of the
pond and found
sand, becoming
mixed with clay,
with increasing
depth. The clay
may cause the
pond to ~~remain~~ be
perched and
remain wet. No
L.S. was found ^{pond} with
We followed

dirt road which paralleled the RR tracks. In the NE corner of the property we found (P. Howell C. spotted) a sink hole, ~20 ft across and ~15 to 17 ft deep. The sides were steep and appeared to be sand. Rock was not observed in the walls of the sink. A thin layer of leaves lay in the bottom. Both

the steepness of the walls & the minor amount of vegetation in the bottom suggested that collapse occurred fairly recently (Possibly within the year, it didn't look like more than a single season's amount of leaf fall).

The pond which we observed may have been

"constructed" by
the previous land
users, possibly
utilizing a small
pre existing
wet feature.

List for Future Field

trips:

G.P.S.

Hammer

Hat

Sun Screen

Field Note book

Pencils

Camera

Topographic Maps

Air Photos from Terra

Server

Atlas.

Geologic County Map

