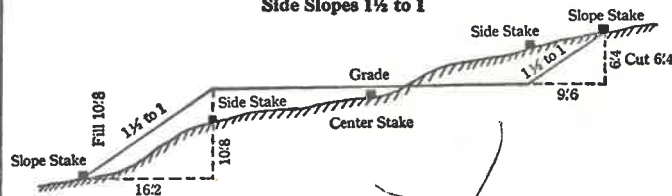


T. Scott
Field i few cores

 **DIETZGEN**
WAK Jackson

ENGINEERS'
FIELD BOOK
No. S400V

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
Roadway of any Width
Side Slopes 1½ to 1



In the figure above: Opposite 6 under "Cut or Fill" and under .4 read 9/6 the distance from the side stake to the slope stake at right. Opposite 10 under "Cut or Fill" and under .8 read 16/2, the distance from the side stake to the slope stake at the left.

Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

573 756 51 588

Kathleen Carthen

509-6544

Property of

Tom Scott

FWS

Address

Phone

850 539 6081

850 556 5690

This Field Book contains special paper which is impregnated with resin to make it substantially stronger as well as water resistant. Your field notes will come out sharp and clear even when the page is wet.

MADE IN U.S.A.

[illegible]

7/6/99 Keys

Sides

7-8

12-13

Pass Key

Park Key

3'

appeal
to

Love

the

Fall

9/16 - large sink slumps occurring just north of the sink that's taking H_2O .

Lake Jackson Sinkhole

1st Visit 9/16 around 12:30pm lake levels down. H_2O in sinks & channels (ponds) with alot of bottom exposed.

by 6:15 pm H_2O dropped approx 3' Nada Stauffer was with me.

Fishing frenzy in full swing by this time. H_2O teeming with fish. Numerous, large bass caught by hand. By approx 7:15 H_2O had dropped by 6' and sink was now starting to show. A small sink, to the south of the main sink, opened and began taking all the H_2O coming from the south channel (pond). People doing dangerous activities.

9/17 7:00AM H_2O in sink below the rim of the main pipe. Tons of people around. Stream channel from north of sink is eroding and has alot of slumping going on. Waterfalls migrating by eroding clay beds. Harley, Chris and I were examining the area. I used a soft scope

to go down in the sink to H₂O level (approx below top of hole - 10'-15' below lake bottom. By late afternoon H₂O level dropped in hole so that no standing water was seen. Slumping continued.

9/18 AM used string & can to try to measure depth to bottom of sink. Measure but seems to be about 20' below rim of hole. Can was drawn in to cavity and string had to be cut. Afternoon rain brought H₂O level to above the rim of the hole - almost to the level of 9/16 at noon. Slumping continued even more rapidly 2nd sink plugged up.

9/19 H₂O level dropped to just above rim. Counter clockwise swirling of H₂O w/ foam and a few shoes. Lots of slumping.

9/20 H₂O level lower but still standing H₂O in hole. Late afternoon rain raised H₂O level to above 9/16 & 9/18. Rain event happened in the northern part

of the lake and water flowed over the sill into central basin filling the sink.

9/21 H₂O levels very slowly dropping flogged area for DEP in PM.

9/22 H₂O levels still dropping. by PM there was a CCW swirl at rim of sink.

Visited all landings with DEP folks.

H₂O level down in sink by 2-3' by 2 PM.

9/23 at 8:00 AM no standing water visible. Water cascading into sink from both sides. Posting signs with other FGs & DEP people. Fogged in at 7:00 AM - Beautiful!!

Just after noon it was noticed that the sink was full. Inflow had increased by 30% (measured by Shawn McG.) on checking the lake bed I feel that the increased inflow is transitory due to

the wind which is blowing
from the NE (nice breeze)

The love bugs are extremely
bad today. In the food, covers,
vehicles, in hair ears etc.
Damn things!!

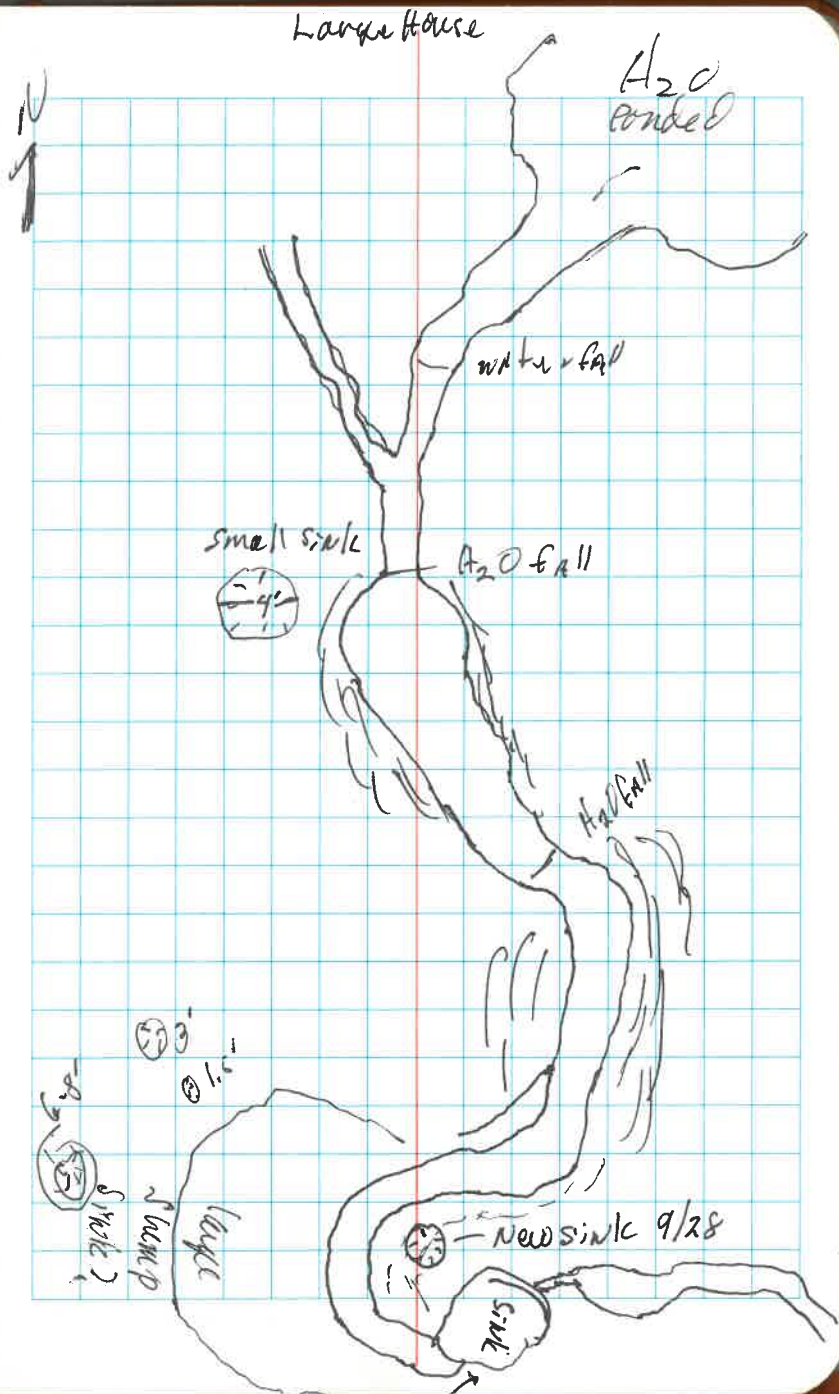
By 5:00 pm water in sink
had dropped to 4-5' below lip
of sink - wind died down.

Wind up to 14 mph early afternoon
5-6 pm 7 mph both from
NE.

9/24 flow 4.5 cfs (Tom Pratt)

9/24-26 H₂O continued dropping
Sink exposed

9/27 Rainy day - poured at FGs
& Wakulla sp but L. Tex got
only .61 in (channel 27)
at 5 pm H₂O cascading into
sink but no standing H₂O
in throat. Stream at approx
6 cfs (est)





9/28 3:30pm new sink forming
actually, the large sink that seemed
to be opening on 9/16 (but plugged)
is reopening about 10m from
active sink (to NW).

By 6:30 pm new sink had
dropped about 1 ft.

9/29 AM - New sink appears larger
H₂O level is below level of
stream.

NOON - new sink slightly larger
put stakes around it
4 - about 1' from water
2 - at outer most large
crack - 1 on side toward
old sink - 1 away

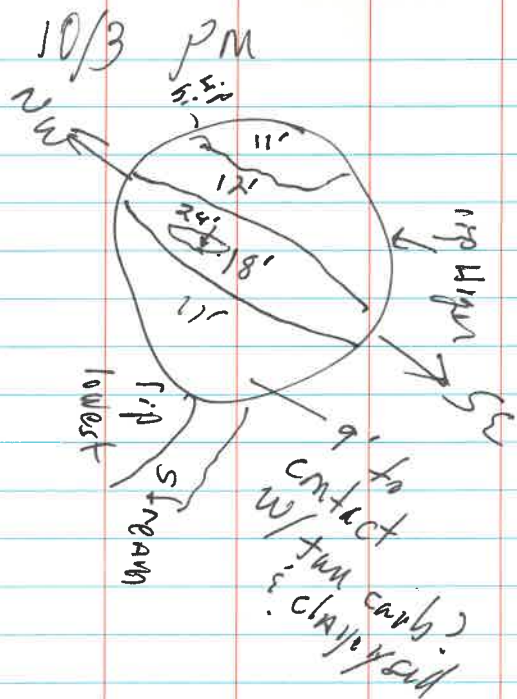
9/30 AM new sink slightly
larger. dug channels into
it. H₂O levels equalized

PM - very little change
measured depth of sink
approx 25' about 18' to a possible
ledge

Scott Worell
Diow 877 9315

10/1 little change. Spent day
doing plane table & alidade survey of
Jim Balsillie, Stew Kish, Hachey means,
Jackie Lloyd & Paulette Bond there short term

10/2 PM water flow dropped
significantly exposing the entire
throat of sink. No ledge present
~~but~~ but a NW-SE enlarged fracture
in what appears to be carbonate?!
will measure on 10/3



10/4 "ledge" at 18' is thin and only covers part of the opening the rest goes to 24'.

Flow very low.

10/5 mapping w/ Jim Balsillie & Harley means - Scruffy Basin

That idiot Sean McGlynn brought a cave diver out to the site.

10/6 Mapping w/ Jim & Harley

in PM Jim & Steve Kish shot a BM low from intersection of 27 & Fiddle mapped North Basin.

10/7 Today we are going into the sink. H₂O flow very low. will dam it off. Beautiful day cool at sunrise 60° only clouds to southeast

~ 11:30 am Tom & I begin to dam up the flow into the sink. We erected a plywood dam & several earth dams. It took ~ 30 min. for complete flow stoppage. We lowered by a rope a chain link ladder down to the lower part of the sink & then lowered an extension ladder to the upper ledge. Tom was the first down. The total depth of the sink is ~ 30' feet.

Harley sampling TD hole 31

1st - 25'

bottom tunnel N 22 W

N 22 W upper tunnel

2' - 21' N 35 W

3 - 19'

4 - 17 clayey cavity fill

5 - 16

6 - 13 approx top of ledge

7 - 9 clay/rock contact w/ overlying

8 - 9 rock " " "

Fossil? 9' sampled

9 - 7'

10 - 1'

cavities at base - one to NW goes about 25' to what appears to be a plug from the newest depression. Some cavities filled w/ varved looking clays and rubble of clay etc.

Interesting stalactites made of something organic - snottites!! Harley saw a green water snake but couldn't catch it since it went back in a passage.

Harley Means

Scott Worrall

Tony Courtneyman

Tom Pratt

Chris

Harry Neal

Sean McGlynn

Downhole

found a unshot .22 cartridge on rock in basal NW passage

10/8 Sampling Seds w/ Balsillie cleaned off several faces including large one on S or SE side. Interbedded fine sands and sandy blue green clays. Beautiful colors & bedding - see photos. the beds dipped in toward present sink. Interesting

10/11 Rain event after 1pm

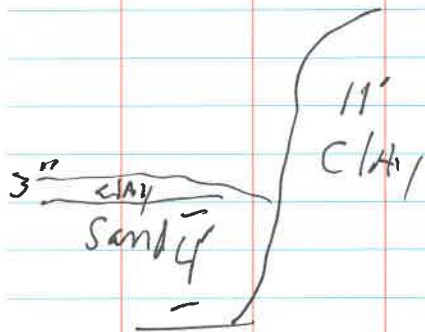
By 6pm heavy flow into sink will watch new sink for development

10/14 finished mapping

Sampling post Torrey A ceds

11 - sand above sink to SE

12 - clay " " to S



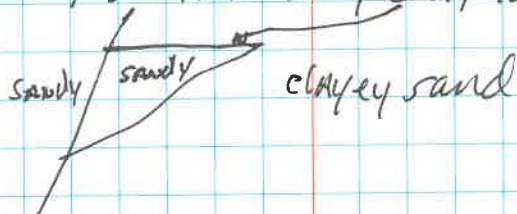
13 - Organic-rich sand
seems to be part of an old
sink fill

10/15/99 Sampling w/ Harley Means
in Northern Ravine and
Waiting for helicopter w/ Tom Herbert

14 - 9.5' below surf very sandy clay
fractures w/ Fe stain? limonite?
root traces

at about 7.5' down, sand increases

15 - 7.5' interesting clay laminar



16 - 5.0' becomes more clayey

17 - 3.0' more sandy

18 - 3.5' from top (Lake Bottom)
very tough, compact
clayey sand

new spot
10' to 11' at
above

19 - 2.0' greasy clay to 6" below
Lake bottom

20 - upper 6" sand

21-4.5' Sand above sink w/ blue green clay

22-2.75' top of sand

23-2.25' bottom of clay

24-1.5' top of clay

25 - clays to north of sink

26 - 1' below lip of Active sink

27 - top of sink

Helicopter ride over the lake owned by Steve Smith client of Tom Herbert.

Took about a 15 min ride. Got sand blasted when it landed next to sink. Tom Anthon went up also. Flew 1st over sink then to Meggins Arm then to NW part of lake then back to the sink area and landed.

Took a lot of pictures

10/21 "Big Wigs" show w/ helicopter overflight

11/2 Rain on 11/1 was approx 2.5" H₂O level rose in sink basin to approx 7' above sink rim. by noon on 11/2, no H₂O standing in sink

12/1 cool ☀ =

Buzz Conover, Harley, Kevin Pope, Sean McGlynn, Bailey's (2) all went down the hole

Cleaned out sink - 10+ wood posts, several metal fence posts, NO Trespassing sign, beer bottles

The bottom cavity to the NW has enlarged. The "plug" from Rick's sink has eroded away in the 11/2 rain event. Now the W to WNW side is approx 3' lower and has large

over 1 page →

11/17/99 w/ T. Missimer

Charlotte Co

" Co mine of
Southwest Aggregates
Tugger Aetna x myr

Land surf

6' sand

> 1' avg Ft. Thompson cap rock

Caloos sand, shell, rock

4-6' beds of very pure sand

H₂O level

~~FF~~ Tamiami sand, rock Below
H₂O level

Missimer recorded a detailed
Section

12/1 Lake Jackson Sink cont.
dolomite blocks exposed in the
ceiling. Smectites all dried up.
Other areas showing erosion of old
clay fills.

12/6 Brooks Sink w/ Fred Pirkle
Dan Spangler et al

12/7 Crestview area with Harley
Means, Rick Green, Roger Portell &
Jon Bryan
looking at exposures

12/8-9 as 12/7

12/10 Rick & Harley to Duncan Church
quarry and Cottondale Pit-White Crust. Co.
Great Crystals

PIL 22 fm J. PBS —

12/20/99 Lake Jackson

Harley, Buzz Conover, Japanese TV crew
Sean, Bruce Means, Pam McVety & daughter

Went down in hole for TV crew
to film in sink and cavity

Photoed & explored more
cavity to NW deeper at left of
end. To right, a cavity has opened
up more. All changes due to
water flow.

Most notable change was a
bare of sink below bottom most
ledge to NE, the small hole
Harley measured on 1st trip
has enlarged due to erosion of
sediment fill. Harley says he
went 20 ft down. Amazing

Numerous insects, flying &
crawling. One aquatic plant
trying to grow in NW passage
end.

1/6/00 cold/overcast

Sean McGlynn, Mike Hill, Kathryn Gaither
& kids, Democrat Rptr David Twilly, photog.
Reporter & cameraman from FIA News Channel

Down in sink w/ reporters & cameras
Explored deepest part of sink with
Sean. Got approx 15 ft deeper. saw
standing H₂O at deepest point.

Ken Campbell, Eric Harrington and
Jim Balsillie completed drilling
core next to sink. TD - 119'
Water Level at 46' 8" below LSD
Top of St. Marks is shallower than
expected. St. Marks collected at bottom of sink
W-18025

1/12/00 foggy early morning then clear
Harley Means, Sean,

Going down hole with D&P and
Co. Comm. Winchester,
mapping & measuring in hole

1/14/00 - cold, windy sunny
Sean, ~~Dan Litteral~~, Dan Litteral
DEP- Bob Balland, Bob Rackliff - Co. Comm
others. Change 40

Put Qty Halogen light in hole
after others left Dan and I
video taped & digi cam ptes in
sink.

Noted St. Marks/Torreya
contact.

Tunnel to East trends approx
90°

1/21/00 very cold & windy but sunny
into hole w/ Anna Marie Hartman &
Danny Bailey DEP, Vivcet Nunez (videographer)
Sean, Craig Berninger
more digi photos & video

1/22/00 Fred Pirkle, Dan Spanglen (UF)
Friends, Cold Sunny
(PBS) Georgia Davis, Ben Conover (NPR)
Chris T (PBS videographer), Steve? (PBS
producer)

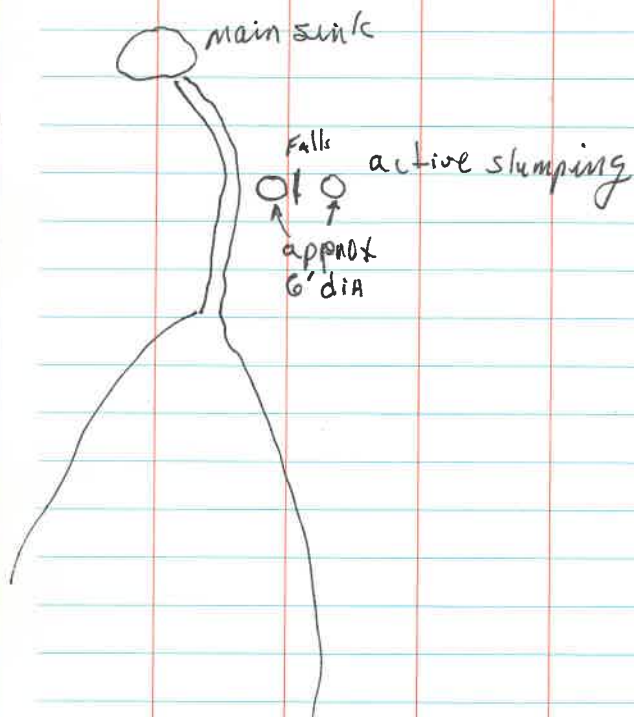
1/24/00 cold overcast rain stopped

Rain from 11 AM 1/23 w/ severe
T-storms before 7 AM 1/24
H₂O running into sink from S
very little from N
No changes in sink or others
in the area noted.

Cold!! sunny
1/27/00 Springs Task Force
Pres.
boat trip on Santa Fe Rv.
to look at springs & siphons.

1/30/00
Had enough rain that H₂O
is flowing into sink from both
NW & SE. Appears to be around
4 cfs.

2/14/00 Rain - severe T-storms
tornadoes - more than 1 inch rain
at lake some H₂O ran into hole
H₂O approx 1' deep in parking area
sink. Noted 2 sinks forming
approx 150' (50m) to SE



2/17/00 overcast

Aucilla Wildlife Mgt area
w/ Ken Campbell, Jim Balsillie, Tom
Henbert, Greg?

looking at ls cove - all Suwannee ls.

2/18/00 Lk Jackson Sink

beautiful weather - cool sunny

large group from DEP went down
in the hole.

Fla. News Channel came out but
did not go down to bottom.

Tom Stodd (DEP) explored and
made connection between cavity
under Torreya ledge and back of
East cavity.

N. W. cavity slightly larger due to
inflow.

Scott Worrell worked on map.

1/21/00 Brooks Sink w/ 1 Beautiful day
Georgia Davis, Buz Conover and
Chris.

NPR & PBS interviews
PBS videotaping for Fla Cross Roads
documentary.

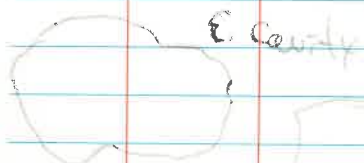
2/25/00 Lake Miccosukee sink
cool beautiful morning
mist on pool

Hawthorn Gp, Torrey Fm well
exposed (in F.A.) around sink
some of the Torrey is weathered
to orangish colors so it looks
similar to Miccosukee Fm
may be a little M. Fm over Tor.

3/21/00 into sink once more
☀ cool and warm sun

small stream flowing into sink
as a result of rain on Sunday
3/19

water flowing into East cavity



H₂O entering on
this side

In NW cavity, about a
foot of sand deposited then
eroded exposing layering.
This sand deposited by last
rain 3/19 then eroded as flow
changed. dark and light laminae

Got the muddiest ever!!
in hole w/ Sean & 4 cavers
who are doing a map

Found live crayfish, toads
Leopard frogs
appears that the rain event
on 3/19 had enough inflow
to flood the rooms in bottom of
the sink organic debris on walls
and some conduits are larger

in NW cav. - passage from the E
larger w/ sand covered floor
appears H₂O flowed in from
E toward the deeper hole
in the NW.

in E cavity - passage
from E going upwards
has H₂O coming down
through it

2/00 core hole at Porter Hole
showed FAS pot surf at
46.8'

4/12/00

Suwannee Riv

W at Hwy 6 W/ Harley, Ryan
Drew, Dale, Rick
Heading down stream

Visited sites between Hwy 6 &
Cone Bridge. Stopped at
many sites described in
1981 Got GPS locations
Means has GPS readings

4/21/00 Limesink Lake JAX

N. part of Lake isolated into
4-5 ponds Limesink taking H₂O
and H₂O level is lower than other ponds
Dropped about 2" between 2pm
and 7pm

4/24/00 Limesink H₂O level dropped
approx 2 ft between Fri 4/21 7pm
and 7am 4/24

4/26/00 about 2' below 4/21/00
level. Put tool in at 7am checked
at 6pm 2-3" drop in H₂O level

cool in AM
warm PM

4/27/00 H₂O dropped 7"

from 7 AM 4/26 to

7 AM 4/27

4/28/00 6" drop 7 AM 4/27 to 7 AM 4/28

4/29/00 7:30 PM H₂O dropped

10.5" since 7 AM 4/28

Total drop since 4/21 3' 10.5"

5/2 5' 7" from 4/21

5/3 10" drop from 5/2

5/4 7 AM 12-15" drop from 5/3
dropped below rock base

5/5 6 PM only a puddle left
approx 30' across

many dead fish on land and
in H₂O. fish gasping for O₂
mostly gar, bowfin, carp, pickered
few bass etc left

5/6 3 PM w/ Panhandle aol soc
Lime sink puddle is smaller

5/8 7 AM Lime sink puddle
approx 10' x 25'

5/9 puddle larger sink
appears to have plugged
20' x 40'

5/10 puddle about 10' x 10'
thick muddy H₂O w/ fish
gulping air

5/11 GPS N 30° 31' 65" } Lime Sink
W 84° 20' 29" }

sink still w/ larger puddle
many dead fish edges of water
full of maggots

sink on wedge of lime is
showing signs of collapse
concentric cracks w/ few inches
to 1/2 ft. drop. to 2' of drop at max

GPS - Parker Hole

N 30° 31' 48"

W 84° 19' 32"

5/12/00 Lunch at Snappers
with Buzz Conover (WPR)
& Georgia Davis (PBS)

checked out Lime Sink

5/17/00 Flew in Sheriff's
helicopter over LK 5ac
took 4 rolls of slides and
about 30 dige pics.

6/16/00 LAKE TAMONIA SINK
Basin almost drained
GPS of largest active sink
N 30° 38.636'
W 84° 11.726'

Large boulders of st marks
exposed.

Numerous small sinks
scattered around.

6/21/00 Suwannee Rv 
w/ Harley Means, Ken Campbell
Rick Green

Put in at Cone Bridge and
proceeded to US 41 Bridge - about
12 miles. Great outcrops in first
few miles then poor exposures

until around Big Shoals
Very little to no noticeable
flow. Very little water going
over Big Shoals and we had
to portage much of it.

Some portaging at Little Shoals
also.

Bad thunderstorms in mid
PM.

8/23/00 Porter Hole Sink
w/ Sean McGlynn, Kevin Pope
Bruce Richie & FCN crew

Dramatic changes in sink
from last trip down.

WW cavity - Boulder roof collapse
and about 1-2 ft of sed fill on
floor w/ sand & debris.

Base of open sink - filled in
w/ clay & sand / debris about
3-4 feet. Can no longer get
into E cavity.

Caught Banded H₂O Snake
& turtle in sink.

9/7/00 LK Jackson

Rained heavily Tues & Wed

9/5-6. Jewel Van Dyke

e-mailed saying water was rushing into the hole ^{partially} filling canal

by 9/7 inflow had reduced to moderate level w/

no standing H₂O in hole water ponded on roads

Lime Sink full.

Haul Rd impassable

9/22/00: LK Jackson

9/23/00 Helene
Tropical Storm ~~Helene~~ hit today 8" of rain at airport in 3 hours.

Potter Hole filled to 3' below top of Basin at 1:30pm

by 6:30pm (with Buzz Conover) filled to covering knuckle west to sink (East)

by 11am Saturday 9/23/00 flooding parking area to SW.

lots of runoff still coming in.

Lime Sink full out onto lake bottom large (4') waterfall cutting in to SW rim.

9/22/00 Innovation Park
Sinkhole in retention pond Shaw Bldg

± 25' deep at deepest pt 50+ feet wide

several smaller sinks St. Marks Pk very well solid ls to within 1' of bottom of pond. overlain by Terrace Pk clay & sands and reworked sinkhole fill

Lat 30 25 17

Long 84 19 16 W

TIS RIW SWSE 3

Elev. 90 Surface

Bottom 20-25'

9/29/00

Bugz, Tila
Sean



cool

Porter Hole Sink to measure
flow. water has dropped
about 18" since Sat 8/23

Tyler MacMillan used
electronic flow speed measuring
device

appears to have 2 fps
in flow

Dropped tube in 37-39
feet.

10/14/00

Porter Hole sink
open w/ H₂O cascading in
from NW & SE

10/17-20

Eglin AFB w/ Rick, Harley
and Dale Frimerson (Doc Vernon's
grandson)

STATEMAP work. Looking
at Citronelle fm & possibly
reworked "

Zones of shell mounds, casts
by Kadlinite, burrows etc.
Definite marine deposition

0 ~~10/27/00~~

cool AM warm PM

10/27/00 Appalachicola R. w/

Harley & Ryan means
visited and photographed
outcrop of Marianna ls
in contact w/ Chattahoochee Fm
and one w/ Chattahoochee Fm
to Torrey A Fm.

Dove below Chattahoochee
landing - got pottery, old bottles
point

10/31/00

Porter Hole Sink
Sean, Harley, Dale, Bugz, Georgia

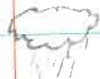
descended into sink to check
how it had changed following
TS Helene.

Passage to E open more than
any previous time (closed off
8/23/00). NW passage partially
filled near main sink then
open more than 8/23 and deeper
at the end than previously
seen. To SE/S the sediment plug

has washed out. Can shine
light approximately 30' in
HM caught 2 turtles in the hole.
Few dead grebes.

2/22/01 LK Jackson Porter Hole
w/ Sean & one visitor ^{Nancy}
^{McNish}

The fracture to SE is more
open than before. can crawl
20+ to SE into room then
thru a passage to the back
of the East cavity

2/26-3/2 Field w/ Harley 
visited Whites Pt Jackson Co.
hiked Ravines on Eglin collecting
Mss-Hiv shell-bearing sed

3/1 visited Florida Stovall Pt
to look at Type Florida. Then
to Covington Co Ala to look at
Olig. sed on S River creek

3/2 - Duncan Church Pt and
Marianna Pt off Hwy 73

3/1/01 well drilled next to
Porter Hole to check water
level FAS pot surf at 56.6'
nearly 10 feet below 2/00
level &

5/10/01 LK Jackson Porter Hole
58° 

w/ Harley, Sean, Buzz, Regina,
Dave Paul, Dale Frierson & SO, Rachel
(archeology student).

Since last visit 2/22/01, rains
filled sink to 16' above sink
rim. Drained completely by 4/28/01

Now NW cavity is nearly filled
w/ clay clasts eroded from channel.
SE cavity filled w/ clay clasts
& cavity ~~can~~ opened more than
ever before.

Coastal Operations Envt.
5/24/01 Coastal Systems Station
Panama City

Tom Herbert, Walt & Ron
approx 1000 people

9/21/01 Porter Hole Sink
Diving the Hole - Sean McAlpin
Will Evans, Fleet,
Buz Conover, Jim Balchellie, Tyler
MacMillian.

Dove the sink - 20+ ft of
H₂O
Honey colored H₂O. still
taking 8+ mill. gals H₂O/day
2 ft/sec flow speed.

800 overcast w/ scattered
9/25/01 Bigen Springs work sun pm
Wacissa Sp Gp. Harley & Ryan
Means, Rebecca Meegen

Sampled 2 spring vents
#2 near boat landing
Big Blue Sp
The third site was not
accessible.

plus Jim & John
9/26/01 partly cloudy 80°
same crew as 9/25/01
Gainer Sp Gp. on Econfina Rv.
Beautiful!! Sampled 3 vents
1C, 2, & 3

1C was the most beautiful
a boil in the woods.

75° clear cool sunny
9/27/01 same crew as 9/25/01
Jackson Blue
Sampled in County Park then
Ran Merritt Mill Pond -
spectacular!! clear H₂O
w/ native veg.

cold in AM cool
10/2 Jefferson Blue in Wacissa
w/ Janet Klem for
Rescue Divers SLAM course
great day - went to
40' in spring

cool AM
10/3 w/ HM, AM
St Marks Spring. put
Boat in at US 98 - motored
upstream ~ 6 mi
water not very clear
pretty good current

long horned cattle in river
eating valenaria grass

Head spring reached after
a slow trip through grass
& weeds.

1420 Temp 69°F
Depth drops sharply off from
to ledge at 2' to bottom at
62'

great day

HM - Harley Means

RM1 - Ryan Means

RM - Rebecca Meyer

JC - Jim Cichon

AB - Alan Baker

TS - Tom Scott

10/4/01 Ichneutudone ^{sp. 20} great
HM, RM, RM1, TS, JC AB

sampled 4 vents - Main Spring
Blue Hole, Mission, Cedar Hole
Main & Blue Hole are beautiful
Cedar Hole is jammed with trees etc.
Mission is pretty.
Got in the water at mid point
water temp 76°

10/8/01 COL 61981 ^{80°} then 
Santa Fe Springs
aka Columbia, Blue
w/ Dave Hornsby, RM1 RM
HM TS

Photos start a #3 roll
7:8 of Spring
Est 40-50 fts (D14)

  ^{80°}
Tree House Spring afternoon
photos 12-14

10/9/01

☀ cool
early AM windy warm

RM 1, RM, AM TS

River Rise - Santa Fe
photos last 4 or 5 on Roll 1

Devil's Ear photoed

#7 & 8 on Roll 2

or 6 & 7

8-11 July Spring
across from
Devil's Ear

10/10/01

☀ cool
AM PM

RM 1 RM HM TS

Holtan Creek Rice
Photos about 3-5 on Roll 3

Alapaha Rice

on Suwannee after sampling
overcast, saw several
beautiful springs
w/ RM 1 & RM

☀ in AM ☀ PM warm

10/11/01 HM, RM 1, RM, TS OH

Siphon Creek rise on Santa Fe Rv
no photos of rise

Lafayette Blue

Photos w/ land bridge

10/24/01 Volusia Blue

Foggy ☀

The most beautiful spring yet seen
RM, RM 1, HM, TS
met Rich Harris - Biologist

Alexander Spring - Ocala Natl Forest
w/ Will Elbaugh (USFS) ☀ ☀ warm
Dove after sampling
1st underwater shots w/ new
Nikonos V

☀ ☀ warm

10/25/01 RM, RM 1, HM TS Will Elbaugh
USFS

Silver Glen Sp
Beautiful but heavily used

Silver Sp. canceled due to Rain

2/18/02 Lecanto

Bob Brothall, Gabriel & Enos, Valerie
Francisco

getting a BFR for USF
Geo Park

3/10 Sarah Andrews

& Susan

to Play Linda then House
of Refuge lots of fun
with these folks

3/11 to Brookville Crystal
River, Barge Canal
Lecanto

3/12 to St. Augustine
& Blue Springs Volusia

4/11/02 Harley Means, Greg
Hitz (Lampel - Herbert)
T.S.

Langston mine N of
Carrabelle on 67
30° 01' 10" N
84° 36' 35" W

Gene (Dad)
Chris
Mike

30' section exposed
appears to be Intracoastal Fm

Encospe sp

Schizaster ??

popul. schizoid

Pecten Oysters karyosaurus
etc

Note: very little water
seeping into pit. very
little water control
needed.

5/20/02

Rucks Pit & Dickerson
Pit w/ Harley

Harley found ^{at Rucks} the best Merc
yet collected and gave it
to me.

at Dickerson found diverse
vent fauna, rexful murex
& Busycon. Took photos of
Nesting sandhill crane.

5/21 Springs Task Force Mtg
Homosassa Sp.

5/22/02 Peace Rv warm 

w/ Harley, Hank Knochemus, (ASH)
Tom Jackson (SWFWMD)
Charles Cook (DEP)

checked out sinks and
fractures in Day river
bed.

visited Kissenger Sp.

5/23/02 Dickerson Pit 

Larry Heimer mgr

56P-595-6163

Pete - mgr of pit

tusk pieces, horse teeth
photos of sandhill crane

12/20/02 Lake Jackson lowered
to the point where there was
approx 1 ft of H₂O over the
tip of the sink. Caught fish
w/ net - Bass, Brim, mudfish etc
on 12/21/02 upper 5 feet of
sink above H₂O

on 12/24/02 there was 3.05"
of rain at Lake Jackson and
sink basin filled completely

9/29/03 Lake Jackson
Dove Porter Hole Sink
approx 25' deep
dark, particulate-filled H₂O
Harley Means, Will Evans, Sean McElroy
divers w/ T. Scott
Jim Balsillie ran 24' SLT
measured ≈ 2.5 ft/sec flow
8.3 mil. gallons/day

3-7-06 / Venice Minerals &
mining - Leo - supervisor.

~ 15 -20 feet of sand & shell over
Arcadia. Arcadia overlies
Venice Clay which Leo says is
 ~ 20 feet thick here.

500 Gene Green Rd

Laurel Exit I-75.

27 09 10.5 82 22 37.6

2' Sand / soil
 5-6' Fort Thompson Shell
 15-16' sand w/ thin
 lenses of clay
 ? rubble
 ? Arcadia Fm Dol. (low)
 ? 20' of clay reported by
 mine survey. below Arcadia
 carb. Probably Venice Clay

to 6/12/06
 6/10/06 Lake Jackson 191
 Lake is below 78' - isolated
 in Porter Hole w/ stream coming
 in from the north. People
 fishing w/ nets.

The 1999 hole taking water
 but someone has tried to
 plug it and a pipe is still
 sticking out. Tom Kwader??

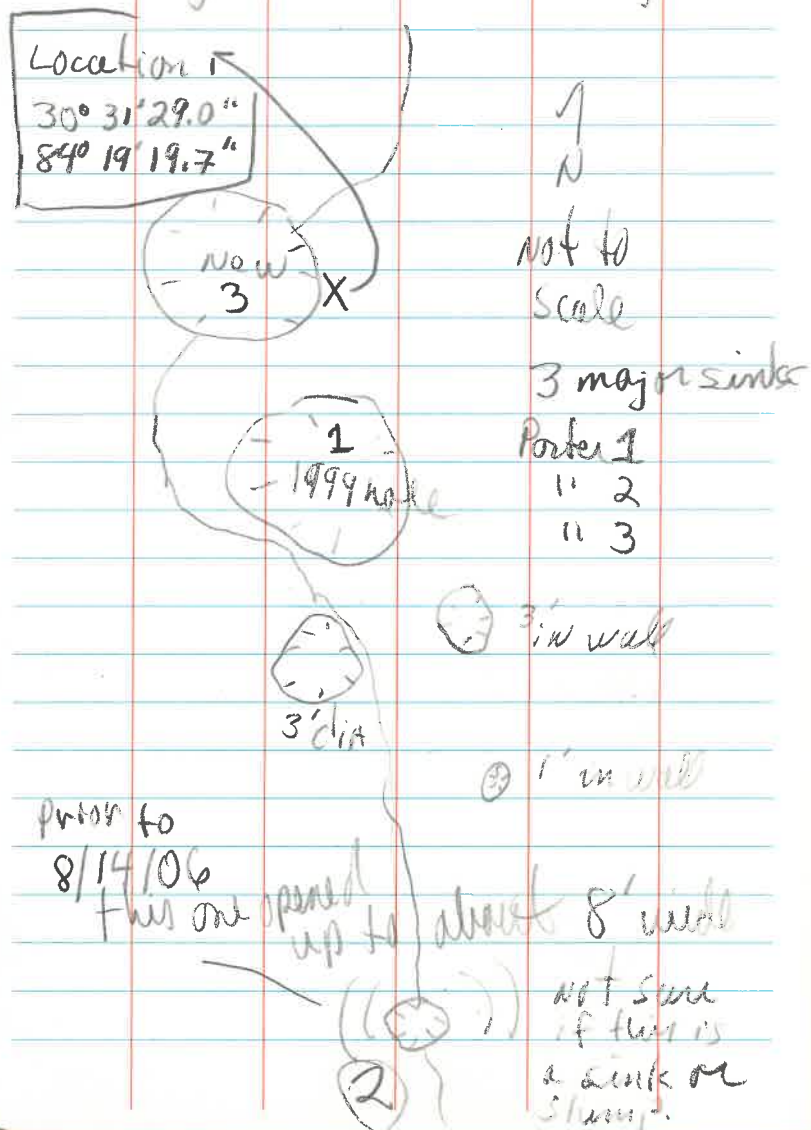
Hundreds of birds feeding
 on the exposed bottom.

6/12/06 Info from Tyler MacKinnon
 Sean McGlynn, Jess Vanduyke

Water levels lower. Sudden
 babbling from the old Porter sink
 and a new hole opened and took
 all the water. Throat visible -
 Torrey Fm is just below surface

6/23/06 Rick Green, Clint Kromer
 Dave Paul, Steve P.
 water low but can't see sink
 throat of large new hole
 a 3-4' diameter new sink

developed last night. Now
5 new holes and several
areas of slumping that
may be sinks starting



The new hole opened on 6/12/06

7/22/06



the new hole has taken all
the water in the basin.

I checked on 7/17/06 and
the basin was half full.
appeared the hole was not
taking H₂O.

by 7/22/06, all water was
going down the hole. The
hole was not the 6+ ft hole
of 6/12/06 but a small opening
below water. Only a part of
the 6/12/06 hole. Some construction
trash had been dumped in the
hole in an attempt to
plug. I removed as much
as possible. Took photos

7/25/06

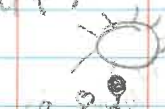
 just me
on way to P.M.
Ft Lauderdale

Found mammoth and mastodon
plus camel/peccary 77 ft

W w part of active pit

Found in assoc w/ Fresh H₂O
lense below thick upper
cemented sand unit.

8/10/06

 98 ft
me WWRG

checking out the Aucilla Rv
Found some interesting spots

Visited E.R. Johns Cabbage Grove
Quarry on Hwy 98 east of
the Aucilla Rv T45 R4E 13
with Wink Winkler (new director of
prospecting for John A).

Mining Suwannee ls - very
dolomitized, looks so much
like the Avery Park Fm
dolostones mined at Gulf Hammock

There is a limestone bed coming
from the bottom of the pit.

It is a greenstone ~~with~~ with
echinoids and large oysters
Donkey Dongs common but not
as big as those lower in the Ocala
So, what is this? Not lower
Ocala! maybe Burnpore

8/23/06 Denali Pit

w/ H. Means R. Green D. Paul
S. Kirschke

 Hell!!!

Interesting pit, Ocala at H₂O level
w/ a dolostone (Ste. whitelee Fm?)
at or on top. Burnpore ls above
Ocala. Suwannee ls occurs at the
to some where in the pit saw large
boulders of O₂.

Dolostone occurs at top of Ocala
and a second layer in the middle
of the Burnpore

~~Ocala~~

8/31/06 Lake Jackson

Both sinks - North of
Porter 1999 and South -
are still taking water
although the openings are
small and one (north) has
cement block in it.

An old, muck filled sink
NW of 1999 hole & has
dropped in approx. 8' deep
and $\approx$ 15' wide.

Late 2006 Basin Filled
Early 2007

Porter #1 (1999) plugged
Probably by someone throwing
in debris

Deep drought as of mid-May
- 12 inches from Aug.

☼ smoke!!

5/10/07 Porter 3 (North) opened
last night and swallowed
the remaining water in the basin
a blue tarp & cement blocks were
found in the hole. Appears
someone attempted to plug #3
also.

many cubic yds of organic
rich sediments & clayey sediments have
gone down the hole.

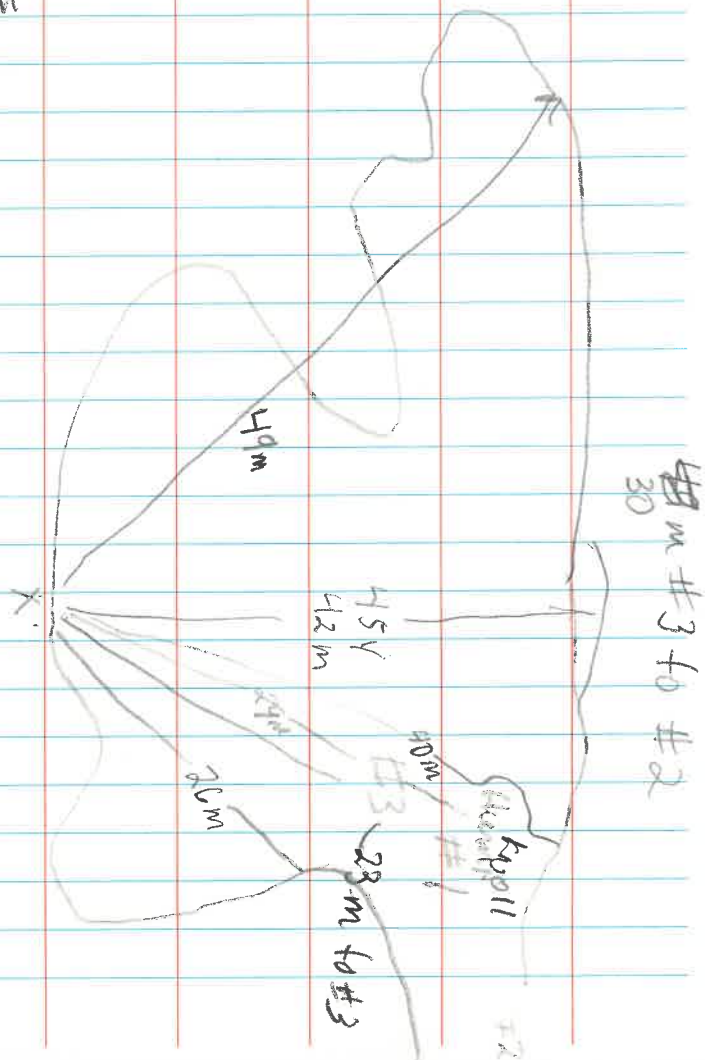
Did not measure the basin but
it must be 50' across
and 30+ feet deep.

210' wall of ls w/ some clay pockets
exposed above the hole.
boulders of ls in the hole.

The sink collapsed into the N. room
we observed in '99-2000
We saw the boulders in the ceiling
at that time.

5/25 w/ Flip Froelich
 6/1 w/ Jim Sparr and Dan Phelps
 doing GPR

45 yd
 42 m



100 m from ^{SW} end to ^{NE} end

128^{to 132} m from SE most sink
 to large H₂O filled sink
 WNW of main hole

Numerous pater sinks in
 walls

large sink w/ H₂O to WNW
 is roughly circular 23 m

60 m from Wedge to Kypoll

4/28/10 Indi + W Sp visit

Live on W-S line

approx 1000'

Live to spring 500'

Supplemental colony Aug 12

approx 1,000'

maybe a second region

approx 500'

N 30.44232° W 85.6946
4/7/11 Sites Pit Washington Co
W of 77 North of 20

Pit is dewatered approx 80'

65-67/20' Cit

6-10' JB

18-20' IC SC CS

28' rubbly hard IC ls in clay

Longlake NE 30.551388 N 85.73733 W
numerous sinks create basin
one, where H2O gies down
has cracks around it indicating
continuing growth.

Choctawhatchee outcrop
N 30.48712 W 85.86320
looks like Chipola Fm

CM Gate Core 6/7/11

- 0-2 Sand med yellow, f-f-m unconsol
2-4 Sand yell gry f-f-m poor clay
4-12 Sand clayey yell gry f, uf-m
var. sandy clay poor clay
12-34 Sand, lt gry brn, f, f-m unconsol
var to mf-m; uf, uf-f
34-42 Sand, clayey, silty, olive gry poor
uf, uf-f, much dk olive gry consol
42-44 Sand, clayey, c-m-uc, poor consol

Note: 34-44 reminds me of upper
JB at AB. just more
sand/less clay

NO smpl 44-46 - 3 bgs 46-48'

46-76 Sand, clayey, olive gry to olive
f, uf-f blk abund foss frags, well preserv?
uf-m Base? blk grains - f-m? for?
f-m Cemented frags, Clay varies from
clayey to slightly clayey
foss. content high, var large frags
to small and pos. Appears to
be more calc mix below 62
Pecten frags, echinoid spines
ostracods

Note: Foss. / fauna JB 46-76

JB - 46-76

pass 34-76 based on exp at AB

76-80 NO sample Handground?
ask John.

80-84 Ls, grain-pick, yell gray to pale
yell brown, well ind, Sorites
common sandy, foss. molds
moll, very textal, very
porous, may be chab. m.?

sharp
84-91.5 Ls, pack-wake, light olive gray
84-85. → poor ind, clayey - clay increases
grades to
clay, sandy
as
see note
at end
91.5-99+ Ls pack-wake yell gray to brn gray
mod ind, clayey, sandy (VF)
foss highly dissolved, minor
phos, clay decreases w/ depth,

poor
ind
zone
grade
99+ - 102.5 Ls, pack-wake, yell gray to brn gray
mod-well ind, sandy, phos? minor
foss. Sorites moll, highly dissolved

grades into very well ind
very moll foss ls. w/ rip up
clasts (at about 104) 5-105.5

sharp
102.5 - 107 Ls, highly well ind &
very textal, yell gray to ^{lt} gray
- brn gray, sandy, abundant moll
molds Sorites, bored
trilob. clasts, Schmoeck - Ryschlanpu
Sp. forams

sharp
107-113 Ls, lt olive gray to mod gray,
sand, phos variable clay ^{poor to} mod ind
forams, Sorites moll ^{traps}
sand varies to sand w/ calc
clay & clay phos?
some zones more clayey to
clayey sand w/ calc
1-1.5' hard sandy Ls + 112-113.0

sharp
113-122 clay olive blc - olive gray - lt olive
gray, ^{uf-c} variably sandy, silty, minor
foss. forams moll, but turb
noted pyrite Sorites phos?
foss very leached

122-124 no sample

122-124 No sample

124-126 Sand yellow-^{poor-mid}olig, f, v.f-f, variable clay, mica, foss frags, ^{poor-mid}variable calc mtrx, phos.

Grade

126-127

ls, yellow, mid-grade ^{mold}very sandy (v.f-f) foss frags ^{out}grade

127-152

Sand, lot olive gray-olig, f, v.f-f clay, ^{poor-mid}calc, poor ind to mod moll forms mica, foss frags (variable) varies to sandy clay

thin zone
of hard
SS, calc cont
to ss, sandy

thin zone up calc cont, clayey sand. sortes

varies to

SS, calc cont
to ss, sandy
15. 144.5
141.7

Clay, olive gray, sandy silt, phos, mica, foss frags moll forms, calc mtrx w/ zones of calc cont clayey sand. sortes

Harder zones at

133.5-134

140.-141.7

142.1-142.3

144.3-145.3

147 fgs 3"

147.3-147.8

151-152

Fairly sharp

152-156.5± ^{mod ind}Clay, olive gray, variable sandy, more sand toward 152. Foss mica Some zones w/ abundant foss frags. Others almost devoid of foss

Sharp erosional contact obvious

156.5-158

ls, yellow-^{1st}dark gray, well ind sand, foss mold, weathered frags very disintegrated, ^{1st}contact. Coral 157.5" clay filled voids

158-164

ls, ^{pinkish gray, bluish gray, yellowish gray}very red, well ind, very minor sand, abundant foss molds, corals noticeable moll forms

Recovery drops

164-195±

^{cream to}ls very pale orange to pinkish gray, light brown gray, well ind abundant foss molds: casts minor sand. Very, mild ^{1st}Amf of foss molds / corals varies

Very rubbly appearance due to
soft zones washing out.
some very well ind zones ex. 169.5
zones w/ abundant corals
few remnants of algal chunks
zones w/ abundant Bryozoans

Nature of contact uncertain

195+ - 202 Ls light brown, Hy gray brown
poor to well ind, poor recovery
in general finer grained
w/ few molds / casts. dolomite
in some zones. ~~prob~~ v. soft

202 - 211 appears to be very little recov

211 - 220 dolo pale yell brn,

very poor recov.

zones recov. are success dolo
well ind w/ molds & casts

sharp
contact

note 1: 84.75 - 86.15 clay, silty,
sandy calc. Pk gray grading
to yell brn

86.15 - 91.5 grades into clayey Ls poor
ind

Notes from FGS cores

W/410's War mouth

WS 0-50 U DSC

50-100 JB

100-130 BC

130-211 Chatta

211-250 Su Os

250-339 Mari Om

339- Oca Eo

Chatta - v. perm moldic corals
as in Ch gate

Os - Dolo, abund leps approx 220'
Dolom/interbd Ls to 250

Om - Ls, large leps maddy matrix
Long section of abund large leps
250-287 leps decrease w/ depth
finer (granular) to coarser (macrogran)

Eo called at beginning of Leps rich
more perm. zone below finer
carb zone

Eo more cherty w/ depth

W-18245 Falling Waters #2

AB - 0-41

CHH 41-72

Olig 72-100 TD

Florula / Bellerose
abund 1/2 gal frags
Osses

W-5592 Bruce

CH 0-45

AB 45-50

IC 50-64

BC 64-147

Os 147-206 TD

AB - shelly clay/calc semi
weathered 45-49

no weathered 49-50

IC - calc sand w/ gty sand ^{poor ind}
fragments abundant Ostrac / Brach

Dino sample 44-50

BC - ^{poor ind} grainy to good sand very

hard v. extal zones

clay bed $\approx$ 93-96

very hard v. extal sandy ls (dolo?)
at 196-100 sorts

106- Sand #m, abundant
mica ^{on clay} not calc matrix until
 $\approx$ 116 shell frags start $\approx$ 116-
117 more calc w/ depth

Dino 130-131

Back to v. sandy ls poor-mol
ind 1st boundary

Bio turb noticeable 140-142.5

Os - called Os but is identical
to Cliftona laticosta in 141-146
conals mod to hrv ls

Hazel, J. E., Mamm, M.D. &
Huff, W. J. 1980
Ostracod biostrat of the lower
Olig (Vicksburgian) of Miss: Ala

upgraded Bucatanus to Fm
but gave no reason

Variable clastic unit -
more calc. sand silt & clay.
Buc is Fm in Miss

Tew, B.H. 1992. Sequence Strat
Lithofacies & Paleogeography of
Olig. strata in SE Miss & SW
Ark. Geol. Survey of Ala B-146
73p.

Byram "mud" - gray, argillaceous, silty foss mud

Bucatanus Clay - gray argillaceous, silty foss mud
younger than Byram based
on mammals.

McNeil, FS 1944 Olig Strat of
SE US AAPG

Placed Bucatanus as a mbr
of Byram.

The Glendon Lmbr becomes
indistinguishable from Marianna
to the east.

becomes more calc to east
and becomes indistinguishable
from Glendon

Near the end of Byram time
a "blanket of fine to med
sand and clay was deposited
from the Miss Rv to Fla"
in S. Ala it becomes calc
& somewhat foss.

Many of mica flakes are
much larger than sand
grains. trace of pebbles?
126-136 clay, olive blk blk or mtr
all sand, mica, plant remains
carbonized, sandier/silty
zones fecal pellets in
clay at 132-134

136-140 no sample

140 start core

141-143 sand, lgt oliv gray oliv gray
uf, uf f, abund silty, clayey,
variable to sandy, clayey silt
abund mica occasional
plant frags - carbonized (add)
zones of wavy dk mtr (mud)
clay Bioturb. few mollusks
175' vf sand at 142.25
- 143.5

143-152 clay, oliv gray, green, silt
mod concal, alternating
thin sand (uf) (sandy silty)
mica Bioturb
Becomes firmer at 146
moll. Forams?
sandier toward base

Chatta?

to white

152-172 ls, yellow to lgt gray,
trace sand(?), well ind. mod
moll. frags, forams
many sections granular to pack
recovery not good assume
soft zones washed out
silty core - poor to mod ind -
165-172

172-175 no core - gravel

175-185 ls, yellow to pinkish gray,
poor-mod ind, forams, moll. frags
and moll. forams,
more concal than above 172
some v. soft almost unconsolidated
zones

185-187 Dolo, pale yel brn to lgt brn
saw? well ind, sucrose,

187-198 Dolo, pale yel brn, poor f,
mod ind, sucrose
mudic 193-97

198-200.5 ls, yellow, poor-mod
ind. few pebbles, gray
algae? domitic

200.5-210 Ls, yll grey (light grey),
mod ind, glauconitic,
foss, forams small

~~210-220 Ls & Dolo to TD~~

210-220 Ls, yll grey, lgt grey mod
ind, sandy, mica, foss
very fine grained.

check

220-232 very little recovery
Ls, lgt to med grey
appears to have been
"soft" Ls as 210-220
w/ few hard beds

contact sharp?

232-260 Ls, lgt grey to white,
poor to med ind,
extremely foss, forams open
moulded. Ls & Dolo some > 1" across
recov not good

260-271 no recov.

271-330 as above, ind varies
no does recov, variable foss
contact

contact grades into dolo

+ to dolo Ls

330-367 Dolo, pale yll brown to
lgt brown, Sargassum
abund. Foss, moldic -
appears to be Lops etc
as above

very rectal
abund algal rhodolites
~ 341-346, 351-356??
Footage on boxes - may be
misted up

grades

367-393 Ls interbedded w/ dolo
yll grey to brown, foss
w/ abundant Lops
more rectal zone more
moldic, few algal per near
base

grades

393-404 Ls, lgt grey to med grey, poor-med
ind, foss forams, algal
rhodolites, common 393-392
contact grades into dolo

404-433 Dolo, lgt brown grey to brown
poor to med ind, fossil
of forams, glauconitic
often lines foam moldic

grades?

Top of Oolite?

433+ - 435 Dol, med brn gray
well ind, very textal
very fine forams, moll, outside of
core coated w/ carb mud.

435 - 440.5 Dol, very lgt gray to
yellow gray, med ind
fine molds, casts, forams
moll. Trace glauc.

more finely xtaline in zone

440.5 - 447.5 Lr, lgt gray to wht, poor to
mod ind, abundant forams, punky
foss preserved in

447.5 - 452 Dol / Ls, lgt gray to wht
poor ind, foss forams, finely
rectal molds & casts

452 - 457 Dol w/ fossil zones,
lgt brn gray to yell gray, mod
ind foss forams, moll. casts
punky in Ls

457 - 461 Ls, lgt gray, poor ind
foss, var. dol & rectal

461 - 472.5 dolomite Ls to Lr, lgt gray to
white, poor to mod ind,
foss, forams,

472.5 - 482 Dol, yellow, better w/ depth
poor to mod ind; forams rectal

482 - 497 Dol, pale yell brn to lgt brn
gray, mod to well ind
abund. large foss molds
which appear to be Leps
& moll. grades into
Lep rock Ls.

497 - 500.5 Lr lgt yell gray, poor ind
abund Leps, punky,

TD 500.5

Potash Mfg 7/28/14 Phelps Dunbar

Steve ~~Baker~~ Rugg

Vince Tompkins

Carl "

Breaching app stack H₂O
to holding pond (new
gyp stack pit)

Lake Jackson 6/17/21

The hole taking H₂O at Porter Hole
is located in the area of the
room we explored at the end of
the WNW passage. The current
hole is too dangerous to enter.

Visited w/ Harley Means & Michael
Hill

Visited again 8/6/21 and
for the dye tracing 8/14/21

