

INDIANA DEPARTMENT OF
NATURAL RESOURCES
GEOLOGICAL SURVEY

611 NORTH WALNUT GROVE
BLOOMINGTON, IN 47405

Notes copied from Sleeping Bear
Dunes ~~field~~ notebook

Sat 20 Aug 11

Location $\rightarrow$ North of Port Huron in Fort Gratiot off
of Parker Road across road from
5269 Parker Road

Purpose $\rightarrow$ collect data on N.p features near outlet

People $\rightarrow$ Todd Thompson + John Johnston

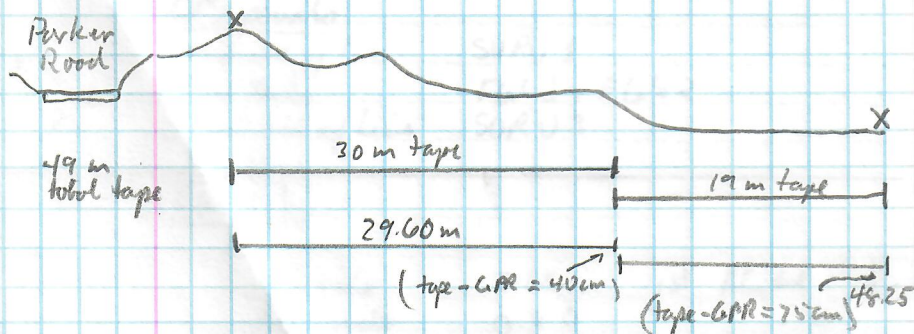
Weather $\rightarrow$ partly cloudy, humid, up to mid 80's
w/ Thunder storms around 4pm

GPR Lines

[1]

Project 0 (originally intended)

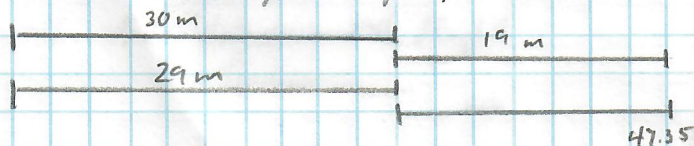
Line 0 [9m depth / 0.10 m/ns, 8 stacks]



[2]

Project 0

Line 1 [7m depth / 0.10 m/ns, 44 stacks]



skip 241 of 948 scans

3

Project Ø

Line 2 [7m depth, 0.10 m/ms, 32 stacks]



no warnings

Orientation of line is N68E

GPS points

West end of line

SURV 1

Cave site

FAS 1 + FAS 2

East end of Line

SURV 3

site

FAS 1

Inside

2.12

1st flight

Outside

0.80

1.32

No bottom loss or slide down

1.05 slide down in 2nd flight

site

FGS2

Inside 1.40 1st

Outside 1.10
0.30

No bottom loss or slide down
0.12 bottom loss in 2nd flight

OSK samples

FGS 3

- 4.5 ft below LSD

FGS 1

- 3.0 ft below LSD

FGS 2

- 2.5 ft below LSD

Surveying to benchmark by Lake
Set permanent jumps on fire hydrant
in the NW corner of Parker + Carrigan Rd

See level notes

Sun 21 Aug 11

Location Fort Gratiot strand plain
Purpose Surveying to benchmark near the lake
People John Johnston + Todd Thompson
Weather overcast with some drizzle

See level notes