

Hickman 1917
Forrest City 1917
~~Keokuk~~ 1917
Mason City 1917
Clear Lake
Decorah 1917

Waukon 1917
Des Moines to Waukon 1919
Belle Plaine & Clinton 1919
Unionville 1919
McGregor 1920
Muscodaville
Decorah

Clarion 1919
Protivin 1919
Mason City 1919
Frontier 1919
St. Charles 1919

Account - St. Louis & south

Aug. 31 - RR. to St. Louis	# 7.22
(of this # 2.38 to Keokuk)	
Sleeper (+ porter	2.26
(1.50 to Keokuk)	\$ 9.47
Sep. 1 - At St. Louis -	
Admission, glasses, paper	1.30
Sep. 2 - RR. to Hickman	5.99
Sleeper + porter (take in g)	2.25
Parcels	.40
Sep. 3 - Hotel Union City - breakfast	.75
Sept 4-5 - Hotel Red Cross	50
Sep. 5 - Hotel Coakley	6.25
RR. to Gibbs	.57
At Gibbs, express on basket	.62
Sep. 6 - Hotel at Gibbs - room + breakfast	1.00
RR. to Ripley	1.67
Sep. 7 - Ripley, Western Hotel, dinner	
room + breakfast	2.25
auto bus	25
Covington, basket, lunch	.70
McFadden + Speltz taxi	6.00
Hotel Linda, supper	1.00
RR. to Memphis	1.19
RR. to Forest City	1.51
Sep. 8 - Forest City - Marion Hotel, breakfast	2.38
room	.63
Express - basket	3.93
RR. to Poplar Bluff	
Sep. 9 - Breakfast, Poplar Bluff	.75
RR. to Cape Girardeau	1.58
Dinner, restaurant	.30
RR. to St. Louis	2.64
RR. to Keokuk	4.24
Sleeper + Porter	1.50
Breakfast - Keokuk	.30
Supper	.40
RR. to Iowa City	2.40
	<u>67.99</u>

St. Louis & the South - 1917

Aug. 31, 1917 - Friday

Left at 6:30 P.M. for Glumac

Took sleeper for St. Louis (arr at Glumac at 7:40 P.M., 15 min. late)

Mr. Cijka met me + we went to his home, 3463 Grand Ave.

Spent the day at Cijka's (Mary, Mrs. Mich. Sinko, + her husband and baby George live upstairs)

In evening had good sized meeting at C.C.'s hall.

Rev. Dostal, editor of News, Col. Selph, postmaster of St. Louis spoke. I followed, and then came the Croatian editor.

Dostal used the expression (Magyar) "To remember" (nem' zovik)

Novak - nis' potuckoi byl nemoreu, - otrava arve na ruce, - doud' znal. Je v'ak shibuy.

(Dostal, mladik - byl nemoreu, odponit' jemu by u d'ne' sigdant)

Sep. 2, 1917 - Sunday

In forenoon attended to tickets,
had glasses repaired, etc.

In afternoon Mr. F. Vuch
took us out for an auto ride.
We went to the Jefferson
Barracks, where troops are
being shipped and sent out.

Attended the funeral of a
sergeant. It was a Woodmen
of the World ceremony, with
the release of a dove, etc. Also
military, with salute of 3
volleys by squad.

Then went out west of city
to the old M. S. Grant farm.
The log-house is divided into
two parts, and the one side is
occupied by an old crabbled
bachelor veteran. Grant's
room is supposed to be in old
time condition, + various reminders
of Grant.

Drove back, took upper left
via the Mobile + Ohio for Union

City + Hickman.

The country N. + west of St.
Louis is rolling, and where
cuts appear it seems to be
covered with loess.

It was evidently forested, and
groves of considerable extent
are still preserved. The
groves of the Barracks show
one, and the Grant farm
another.

This seems to be a great
country for raising sweet
potatoes. Corn is also
abundant, and vegetable
gardens of considerable extent
are also frequent.

The National Cemetery at
the Jefferson Barracks has over
9,000 graves, - 2619^(?) marked
unknown, - or rather by
number only.

Sep. 3, 1917 - Monday.

Reached Union City at
3³⁰ am, & had to wait until
6⁵³. Took the Nashville,
Chattanooga & St. Louis RR.
for Hickman 13 miles away.

Platted bluffs.

Examined cut 1 on S. Wabash str.
This is ~~about~~ ^{more than} $\frac{1}{2}$ way down the hill, on
the slope S. of little creek.

The upper about 7 or 8 ft. is
light yellow. Below that about 5 ft.
of redder stuff, - also loam, but quite reddish.

In both there are gray vertical
streaks, which appear as if following
roots.

Few small nodules & a few shells
are scattered through both.

Took shells and sample (a) from just
below top of redder layer.

Sample (b) is from lighter layer
about $1\frac{1}{2}$ ft. above red layer.

E. side

yellow.

Reddish

Street

Upon the light yellow
stratum, probably 18 ft. exposed.
It is light yellow, with blue streaks
& occasional iron clodding.
Breaks vertically.

In a gutter at base of
(a) & (b) there is some gray
stuff, & below that loose rocky
material.

Wellington str. is on N. slope,
part way up.

Buchanan str. is on top of
ridge, with deep hollow &
went along bluff to E. part
where the bluff gradually &
irregularly drops down to the plain.

Returned to LaClude Hotel
for dinner.

Met two teachers, - one is
to teach Botany at Fulton, Ky., &
has had practically none.

There are no more bluffs
northward and eastward here
at Hickman, & as far as
one can see.

In the afternoon went
along foot of bluff east.

The loess is away up, following

mostly vertical walls (18-25 ft.)
above a sort of bench (see old
notes).

Shells are plentiful, but
it is rather hard to get at
them on account of the great
growth of *Ambrosia trifida*, etc.

The cut just inside of crescent
showed a good many. A part of
this was very hard when dry.

West of turn in Magnolia str. (west
of Troy) there is a good sized (8 in. diam.)
pipe which evidently sometimes
carries water. A darby said it
comes from stand pipe.

Many small shells, evidently (loess)
were washed out below its mouth,
evidently carried out by it.

(see list)

Took sample of hard loess (fossilifer)
just inside of crescent, with a few shells.

Farther on, near pipe, a softer yellow
loess showed a few fossils (see fossils &
sample).

Also collected living shells
on woods slopes in the crevices.
Polygyra tridactyla were grouped in
pockets under leaves.

Polygyra thyroides were creeping
about in moist bed of streamlet
from pipe.

The crevice on the west & south
sides shows fossiliferous loess
on top, - above talus.

Eastward the bluff drops down &
breaks up more or less, curving toward
south & running out gradually to
bottomland.

It was a very hot, close, sultry
day, but at about 5 P.M. a
wind storm came up & great
clouds of dust were raised from
both bars & also from bar farther
north.

This high point is a narrow
place parallel to the street
(Magnolia) & runs toward water
reservoir, ending (or sagging) a
little. It drops south fast.
Moneta str. is much lower.

Went to Catlett street, at
west end it drops down - there
are steps. I went down &
found exposure of loess.

about 20 ft below top =
exposure of soft yellow loess
It seemed to contain *Pomastoma*
lapidaria only (or chiefly?)
There are also a few lime
nodules, - (see spec.)
This is a small exposure near
top of steps leading down hill
on Catlett street. Most of the
bluff is here covered with
vegetation. Went in at 7 P.M.

In the evening I was called upon at
the hotel by the Chief of Police and
a prominent citizen, the manager of
a big factory, and questioned closely
concerning my purpose in visiting
Hickman. My platting of the bluff
(for the purpose of locating the loess
exposures) excited suspicion.

The following points were urged:
Such a plot of high points might
benefit the enemy.
This was a strange time for such
work, - when the country is
engaged in war.
Why was Hickman particularly
selected?

I discussed these points with
the gentlemen, & invited them
to my room, where I showed
them my old Hickman notes,
my correspondence, my letterheads,
& my Masonic credentials.

The chief was very gentlemanly,
but firm and business-like.
They went away satisfied.

I then joined the circle of
teachers at the hotel and we
discussed the war situation until
after 10 o'clock.

Tues., Sep. 4, 1917

Went west and north.
Platted bluffs below
Cattlett street.

Worked cut (a), at entrance to road

East - This road runs up the
hill, & is cut into hill. ^(cut to cut d) In
lower part the exposure is probably
18 ft. high, & grows less upward.

The upper part is fine light
yellow loess with no nodules &
some gray tube-streaks. It
shows lamination, & there are
few fossils in it.

The part marked 18 ft. ^(is cut c) shows
no nodules, but there are gray
patches (iron) with rusty
root-streaks, - almost to the top.
Most of it is light yellow.

A few shells are scattered on
face of vertical wall.

Cut b - This is part of general section

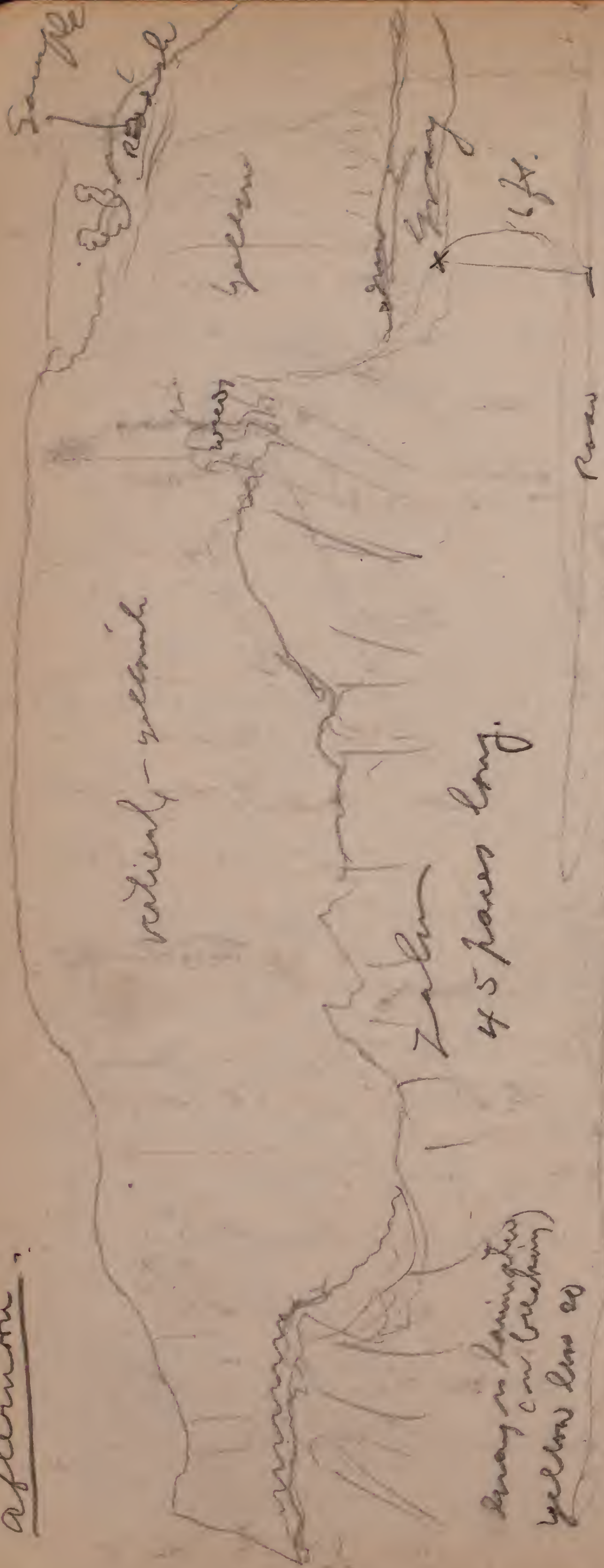
At base, in gutter, on yellow
loess, I found shells marked

(b) - The cut proper is overgrown &

slumped & was not examined.
Went in at noon & returned for address of Institute.

I call the higher exposure, lower down, C, & the lower part
along the road (d). It is one continuous exposure.

afternoon.

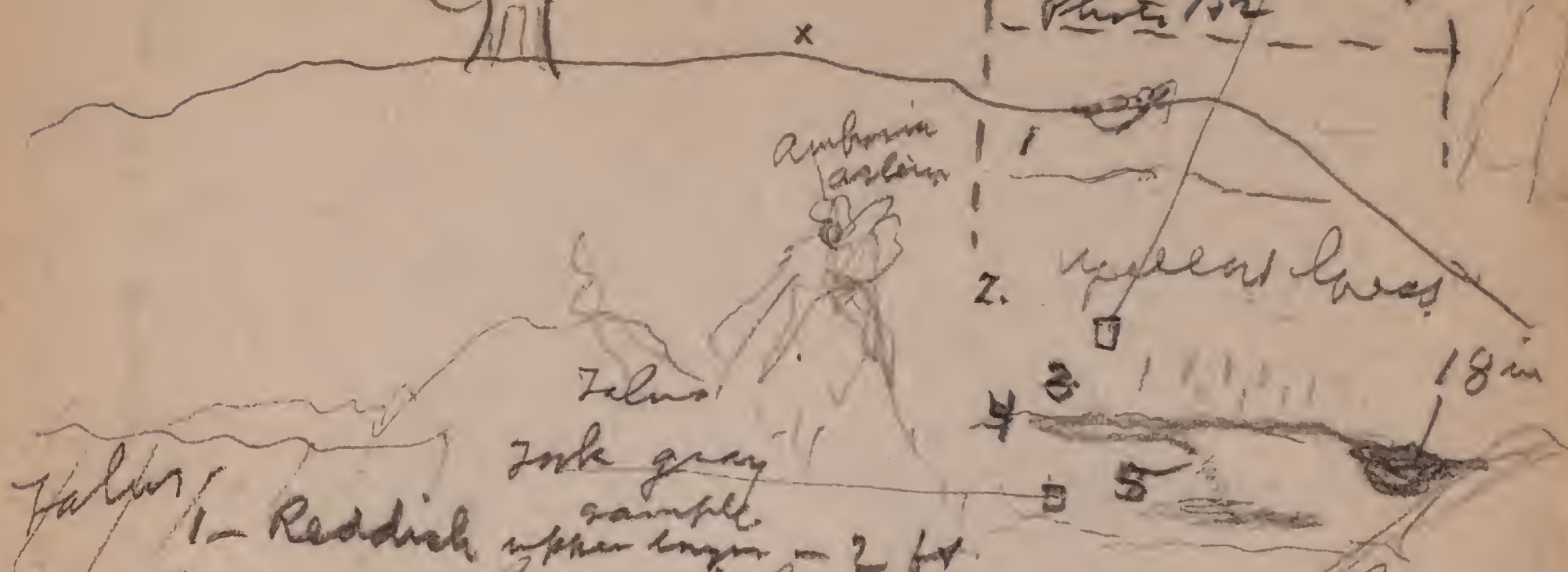


the yellow loam is soft, quite fossiliferous, especially in lower part, & with numerous irregular nodules with shells (often). Its lower part, especially, is streaked with gray roop marks. The gray loam is more putty like, with some iron tubes & streaks, & some fossils, - mostly soft & crushed.

Photo. 11 + 12.

Cut (a) - west end -

Took sample



- 9 ft {
- 1- Reddish upper layer - 2 ft.
 - 2- yellow loam with some nodules, shells scattered all through, + some white streaks.
 - 3- In lower part more white (soft) streaks.
 - 4- Iron bands, somewhat irregular, 2-4 in wide, - partly divided, with gray loam between. It is hard, 18 in thick.
 - 5- gray, putty like loam, becoming hard red stuff below - about 2 ft. exposed. Not hard red below.

Both loams fossiliferous
Part marked X is about 3+ ft higher than part where figures are.

The gray loam is distinctly laminated on breaking, the yellow less so.

I took a sample of the red, harder lobule layer 1 ft from top.

Photo 102
Part of cut (a)

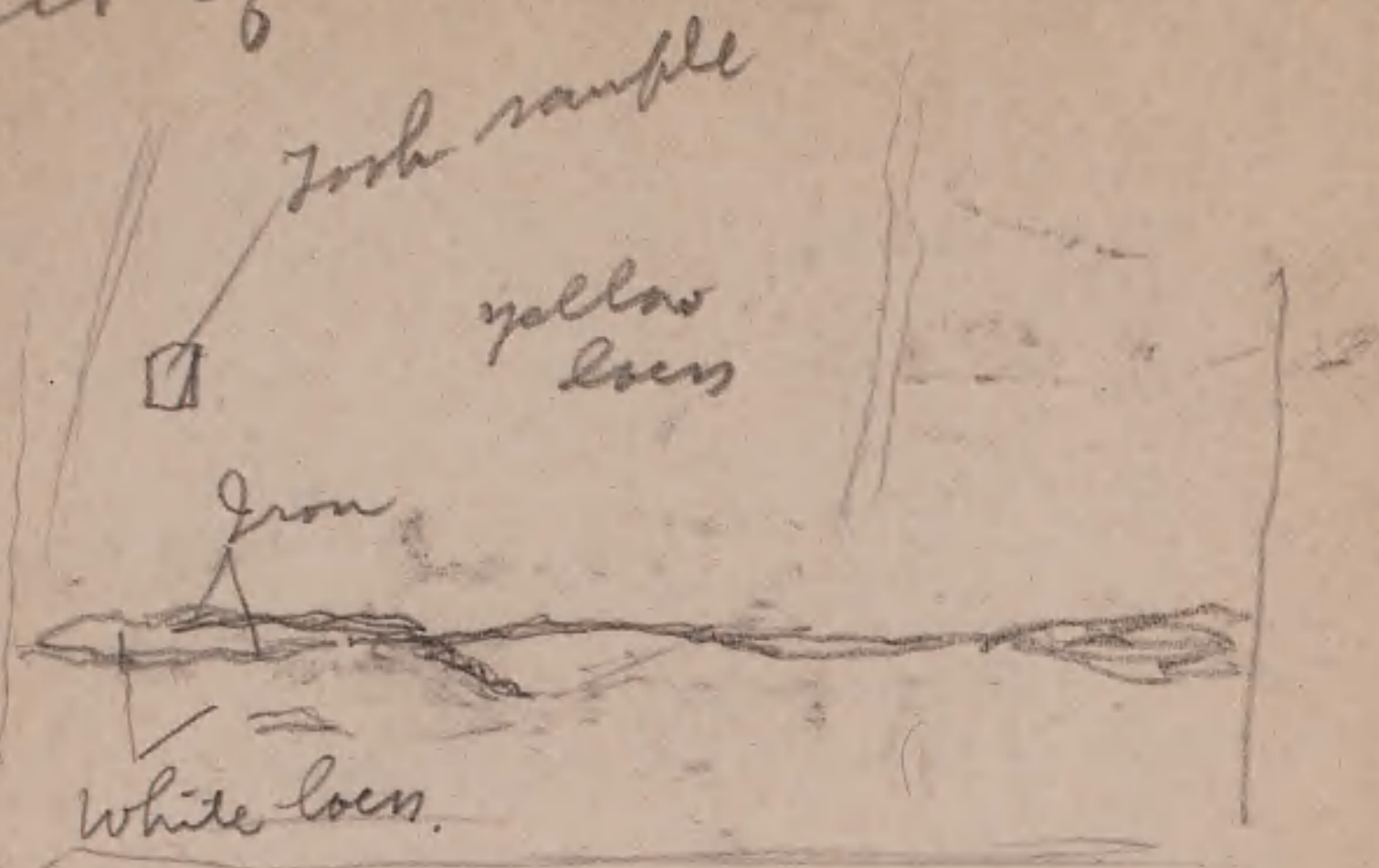
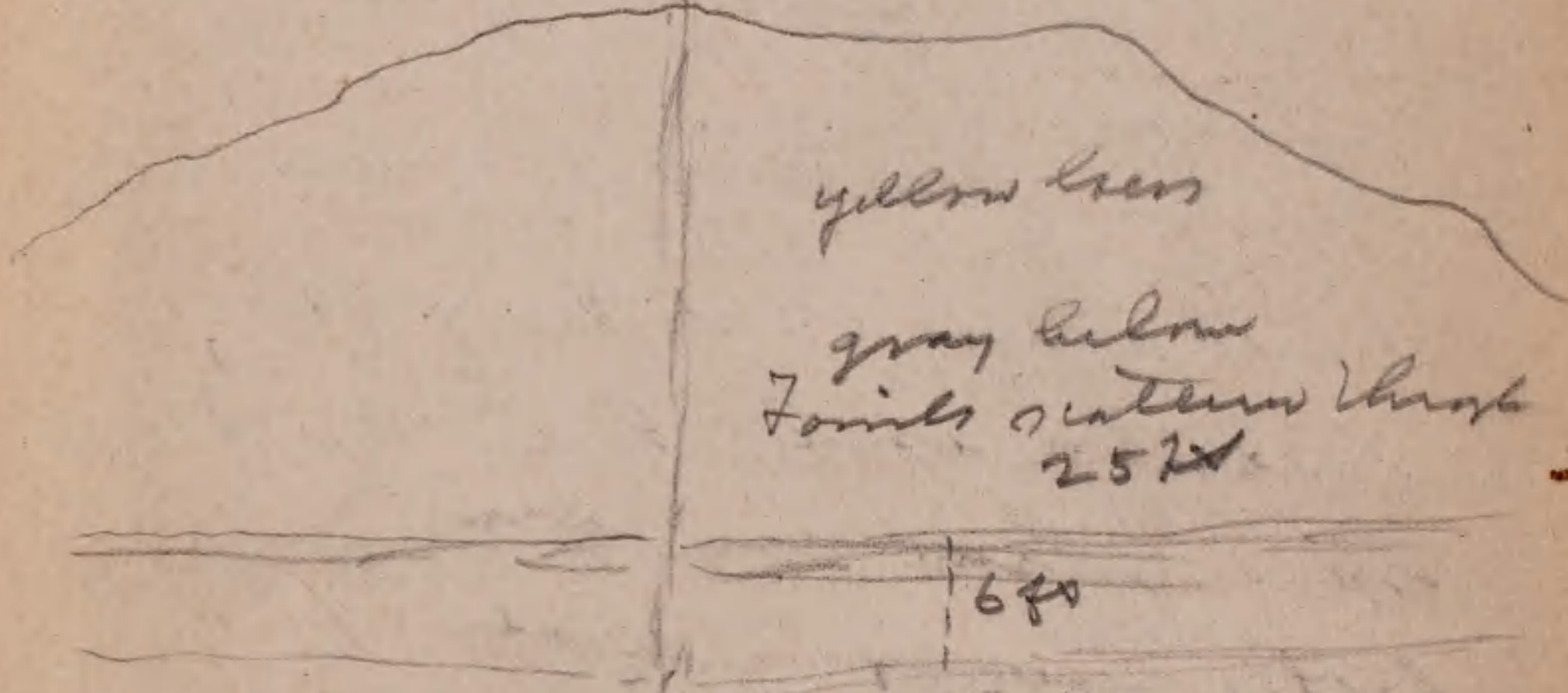
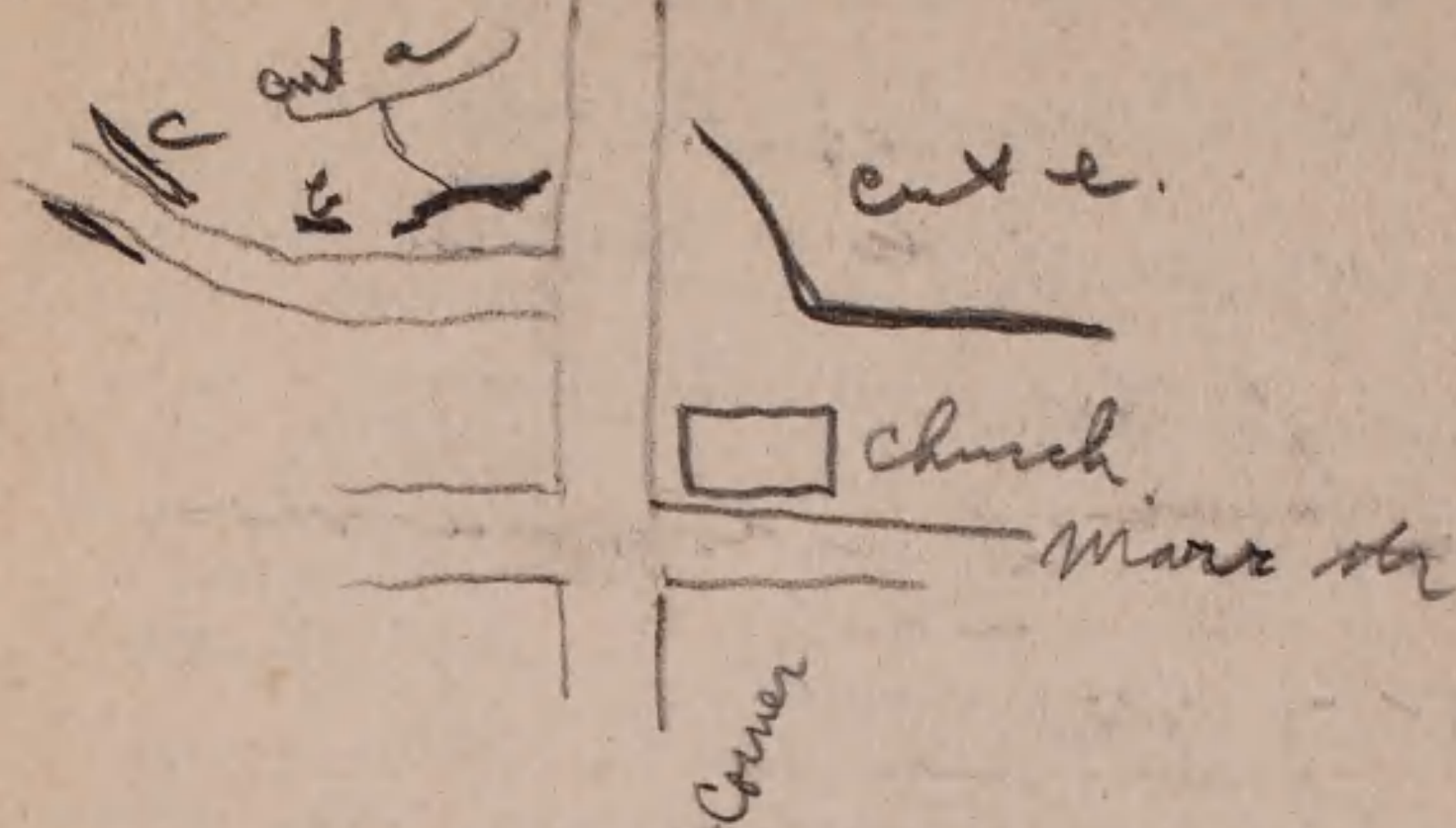


Photo 33 - all of cut a.

I went well up the hill
around bend in road &
took a sample of the soft
yellow loess, no nodules
shells or tubes, which
is the common form up here.
Took it about 5 ft. from top
of bank. It shows lamination
more or less, but more where there
was a slump. This is from
the part marked (d)

S
↑
N

Went to cut a new
church on Mass str.



The lower layer is hard, dark,
(see sample), horizontal, with horizontal
lines of weathering, especially at upper
limit.

Took sample of gray, 4 ft. above
base (top of hard layer)
also sample of dark stuff
below.
Also box of shells from lower
part (opposite of form, on N. face, within 6
ft. of base)

throughout this loess in a, b,
(c), there are gray streaks and
pockets, - especially in lower part

after collecting fossils on N.
side of cut e, within the
lower 6 ft. of the loess, I
walked south along the road
for some distance. It follows
a valley & there are no good
exposures.

I also went to top of ridge on
Vine street, where 3 or 4 ft. of
lobular, reddish loess is at
top, & yellow loess below, - but
little exposed.

Returned to hotel. I chatted
with Mr. Cheek (Supt?) of
Fulton, Ky. & we then went
to the Red Cross benefit at
The Elks' Hall.

I stood for a while &
returned to drug store and
hotel. At the drug store I

saw the Chief of Police and
he had evidently telegraphed
to the University for my identification
for he told me that he knew more
about me than he did yesterday,
that I was with the University 27
yrs., weighed about 200, and was
59 yrs. old. (This last may have been
a catch, but I told him my age
was 56). ^{walker, Manager of the Box Factory,}
^{has been pushing the thing.}

I went to the hotel and
wrote notes and letters.

At 1:30 I went to the County
Teachers' Institute, held today
in the Methodist Church on the
hill and talked for 1:20 on
the war situation and on
patriotism. I had an
appreciative and patient
audience. I discussed:

Our duty to be in war.

Defense of democracy.

The nature of the German an

Other government.
Pacificists & pro-Germans scored,
the teacher's duty to inculcate
patriotism.

The demands the country
can make.

The significance of the flag.

Remarks like this were made
to me afterwards:

"I wish that every citizen of
Kentucky could have heard
that."

"Every young man in Kentucky
should have heard that."

Similar expressions & expressions
of approval were numerous.

I was frequently applauded, & at the
close the applause was prolonged.

As this will not be ~~seen~~ by anyone

I can also add that Mr. West
at the hotel told me that one
of the older teachers told him
it was the best speech she had
ever heard.

Wednesday, Sep. 5, 1917.

Went S. W. again

Photographed cut e
Photos 21 & 22

Looking S. of W.

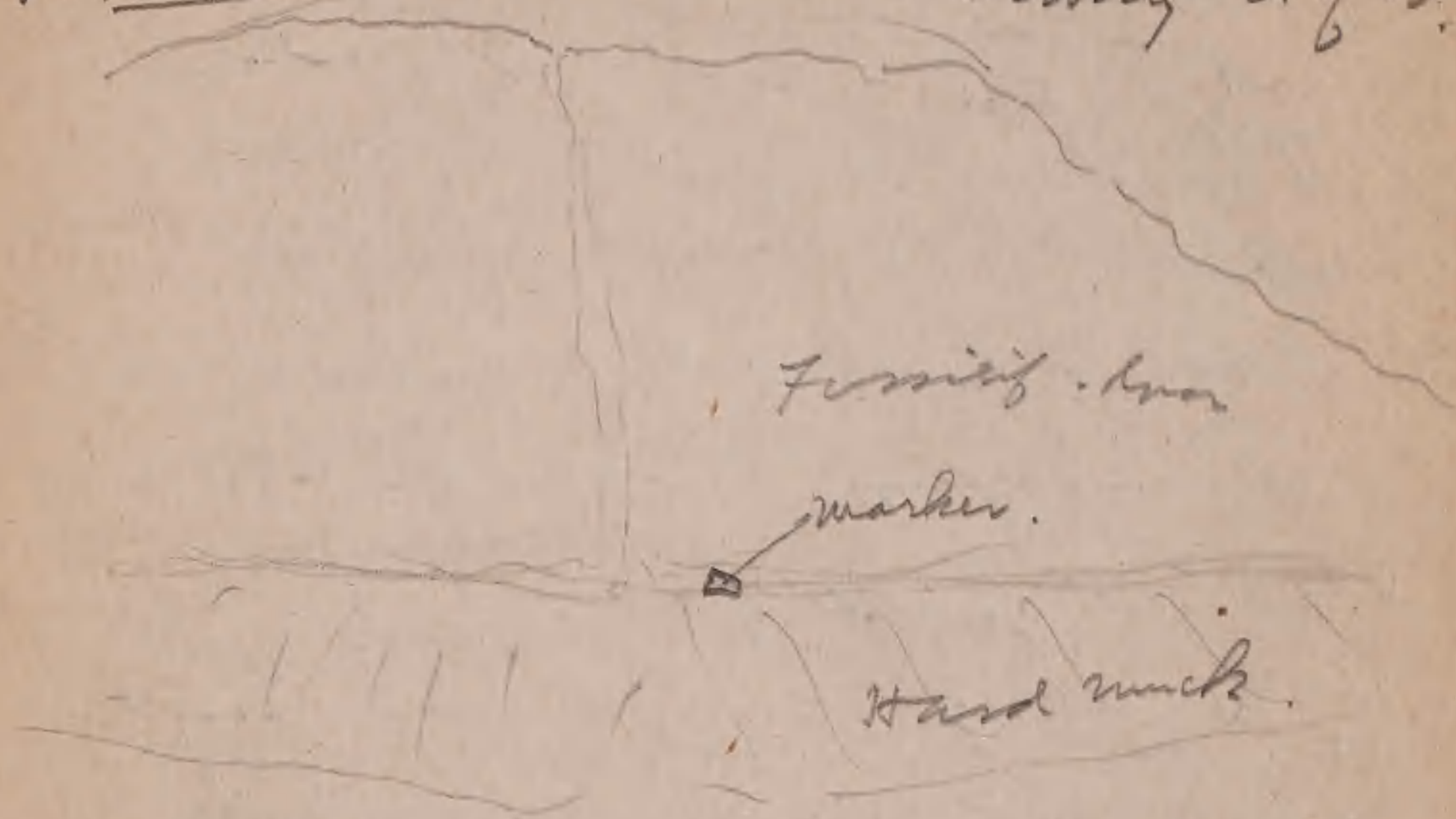


Photo 34 - Similar, but looking
almost west.

Went S. W. beyond old brickyard, &
collected shells & fungi S. of RR &
creek bed (dry)

Also found Succinea creeping along
on grass-ward flat.

collected shells under leaves, etc.
and fungi on sticks.

Returned to brickyard.
An old excavation around end
of ridge, - chiefly on S. side makes
a nearly vertical bank, -
about 8-10 ft. exposed on S. side.

There are very few small, slender
nodules, & the loess is light
yellow, soft, & wide gray streaks
and mottlings in upper part,
& in best part of exposure for
1 1/2 ft., - with vertical nodules.
There is a layer of iron (irregular
& not sharp) about 1 ft. wide.

Below that is the light
yellow loess (soft) with fine
mottlings & lines of gray all through.

The shells (bones) were collected
in the upper part. Little of
the lower part was exposed, but
there are shells in it.

This exposure is much like a
& is in nature of loess.

Took sample from gray loess
& one from yellow 7 ft.
above talus.

The yellow part of thin loess (& cuts a,
& are same) seems to me more like
gray loess with light rusty streaks &
dots & mottlings. When it weathers
it forms a film of uniform light
yellow stuff.

Nodules are very few & only one lower
one was found.

Shells are scattered all through, - usually
in bundles or indefinite groups, -
a few shells in each.

Also took sample of rusty
layer between the lower gray &
upper yellow part.

This cut is at end of ridge, where
it has run down.

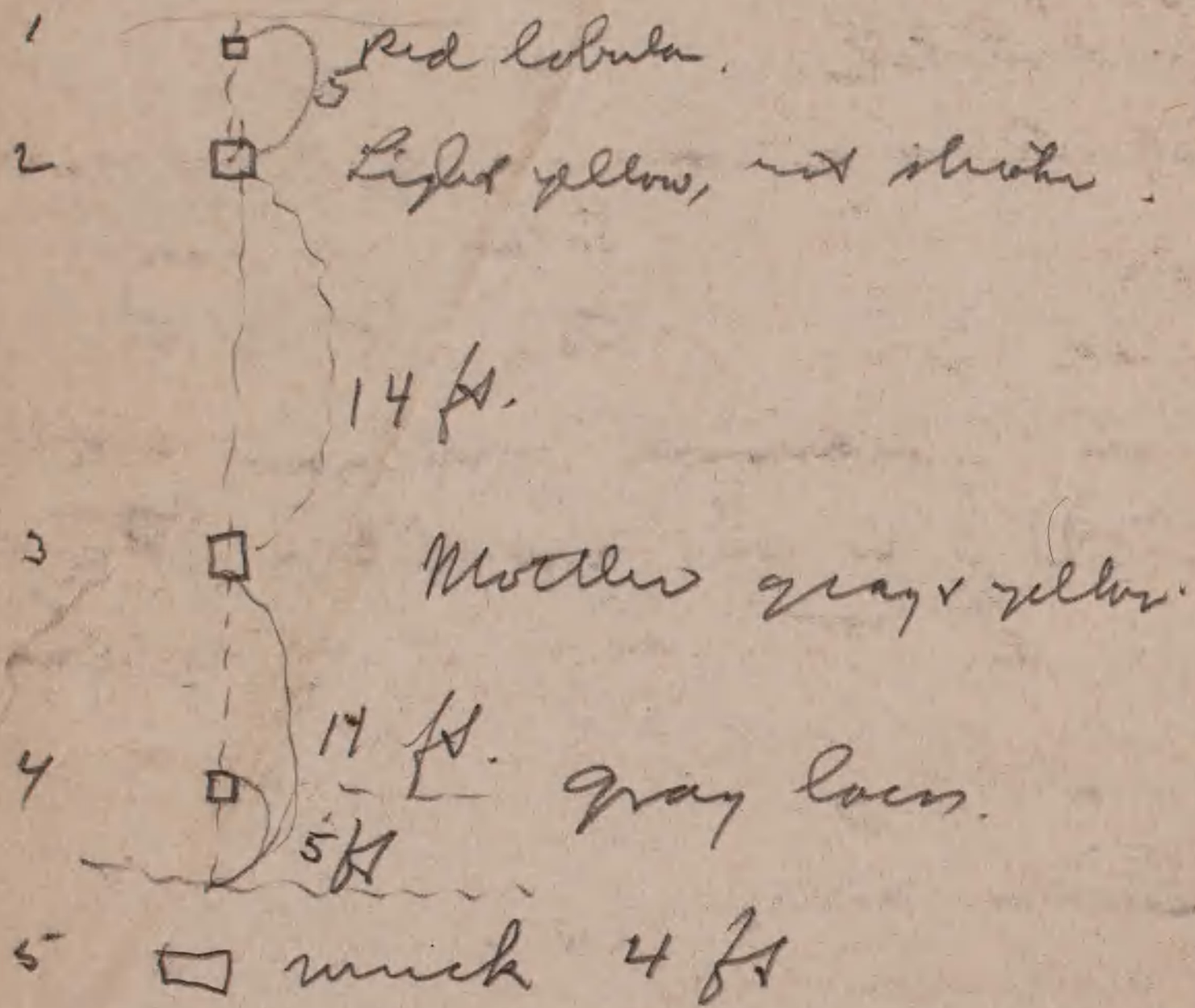
Photo 15 - shows sec. of looking
almost East. (my samples were taken
between 2 central
vertical shadows)

Photo 16 - same, looking N.E.

On E. side of ridge, in part of
exposure of facing E., the
faded red layer shows in part.
It is hard when dry.

Took sample 1 ft. below top.

Went back to cut 2.
 E. side is about 35 ft. high
 of which all but 3 or 4 ft. is
 loess, resting on dark rock.



The stuff at 5 is very mucky & dark
 4- is also tough & gray, with
 some iron tubes & a few
 shells.

- 3- Most nearly typical loess
 of this exposure.
 Fossils all through.
- 2- Is more uniform, no mottling,
 shells extend to top
- 1- Red lobula layer -
 with many roots.

In afternoon went east.
 at foot of bluff on Carroll str.,
 just beyond Wabash (East)
 there is a high vertical bank, -
 about 25 ft. - the base of which
 is 70 ft. above Clinton str. - 1 block
 East of hotel.

It shows a very hard red (reddish)
 layer - about 3 ft., - with some
 gravel in it. Above it the loess is
 hard, yellowish, without nodules
 & with few shells scattered through it
 Carroll str., just E. of Wabash,
 at foot of hill, is 45 ft. above
 Clinton str.

Took within shells no samples
 (see small red layer sample)
 with little of the gravel
 from lower part)

A little to north I went to
 a bench which is 80 ft. above
 Clinton str., & evidently base
 of my old cuts of former
 visit.

What is evidently my old cut
 2, facing west, is just P. of
 turn in bluff.

It may be that cut 9. is my old
2 - where I marked 2 on map
there is an old stump showing
roots, probably the one I photographed.

Old cut 1 is fairly overgrown.
Fine light yellow loess shows.

Take sample.

Collect few large shells.

Old cut 3 is about 2 rods E.
of cut 1 - just beyond a gully
that cuts in.

Old cut 4 - is similar to 3
It has about 35 paces long.
It is probably 100 yds
W. of turn to Crescent.

Old cut 5 is about 50 yds
nearer Crescent & runs
along irregularly almost
to it.

Old cut 6 is evidently the
first cut in Crescent, just
around turn.

Old cuts 7 & 8 are in Crescent
all this bluff is now
densely overgrown on top
& it is hard to get at the
banks, - even to see them.

Photo 3 - Looking NW. at bar
along Mississippi.

Dead trees (tornado) to left
Photo 4 - Looking almost N. at
bars in Mississippi
both from point at turn
into Crescent.

Cut 6 is well inside the
Crescent. It is nearly 30
paces long, & shows loess
(one sample of Monday)
exposed about 15 ft.
General conglomerate in path
below it.

The pipe at mouth of which
I got many small shells is
located just beyond (East) of
turn in Magnolia. It
collected living *Polyspa thyroida*? (*resolida*?
in same place - where damp.

Took photo of Mississippi
& bars from seat at
turn at E. end of Magnolia
street. Photo 15

Readings cor. of Magnolia &
alleyway.

160

Chill back in 5 ft. high.
Intersection of Carroll & Wabash
streets = 78.

Photo 16 - River & bars
from Carroll str. near
Ohio - dead trees (cyclone)

The bluffs come down
very abruptly to Carroll
str. most of the way & then
more gradually downward
to Clinton (or nearby)

I went to hotel, packed, and
left for Gibbs at 9¹⁰ P.M. via
Nashville, Chattanooga & St. Louis R.R.

J. O. West is the owner & manager
of the La Clede Hotel.
Hickman, Ky.

Mr. Cowgill is the old druggist.

Urban B. Hughes
Winchester, Ky.

J. C. Cheek,
Fulton, Ky.

The red-nosed man with little
black moustache, who hung about
the drugstore, was Walker, I
think.

(Get names of Green(?) & other
men, from Cheek)

The place where the dead
trees, killed by tornado, are,
& where there is a big sandbar,
is an island.

Spent the night at the rickety
little hotel (at least the bed & furniture
were rickety!), after shipping
my basket of samples, etc.

Thurs., Sep. 6, 1917

Left Gibbs at 6⁰⁵ am. for Ripley.

all the region to & beyond Dyerburg is a gently rolling plain. Look like good farming country.

At Fowlkes there is a long cut, running both sides of the station, - from 6-10 ft deep, which seems to be loess, with a gravelly layer below - probably 6-8 ft. of loess, - yellow.

All the streams are very muddy here, - a deep yellow. Roads are very dusty, with a light yellow loess color. Small cut before entering Curve also one - 5-7 ft deep at station yellow. A little rougher here with yellow gravel.

Several cuts south of Curve in the rougher country, show much gravel, under thin veneer of loess.

Reached Ripley at 8³⁰

Went out to the Big Cut on Ill. Central RR.

This is a deep cut, taking southward.

At the S. end there is a distinct gravel bed.

At 3 tel. pole lengths (east of) where I took sample, the cut is about 11 ft deep.

The lower half has some coarse gravel. Then about 3 ft. of red joint clay with scattered gravel. Then the red sand of which I took sample.

There seems to be no loess right here.



The west side is higher & shows a very deep red gravel bed, & at the top a lighter material probably loess.

The gravel layer is mostly cemented sand with round iron. Took a sample of the loess-like stuff from W. side, opposite the sample on S. side.

This stuff is light yellow, with gray root tubes or streaks, & is probably loess, but very hard (or loess).

There are no fossils & no nodules in this part.

Some of the light yellow stuff just above red gravel bed is fine sand.

Towards the bridge the red sand and gravel are horizontally distributed, up to 7 or 8 ft above track (on W. side, - E. side is slumped & overgrown.)

At overhead bridge the cut is at least 65 ft deep

much slumped & overgrown at 5th pole from bridge & (on E. side) the cut begins to pitch down.

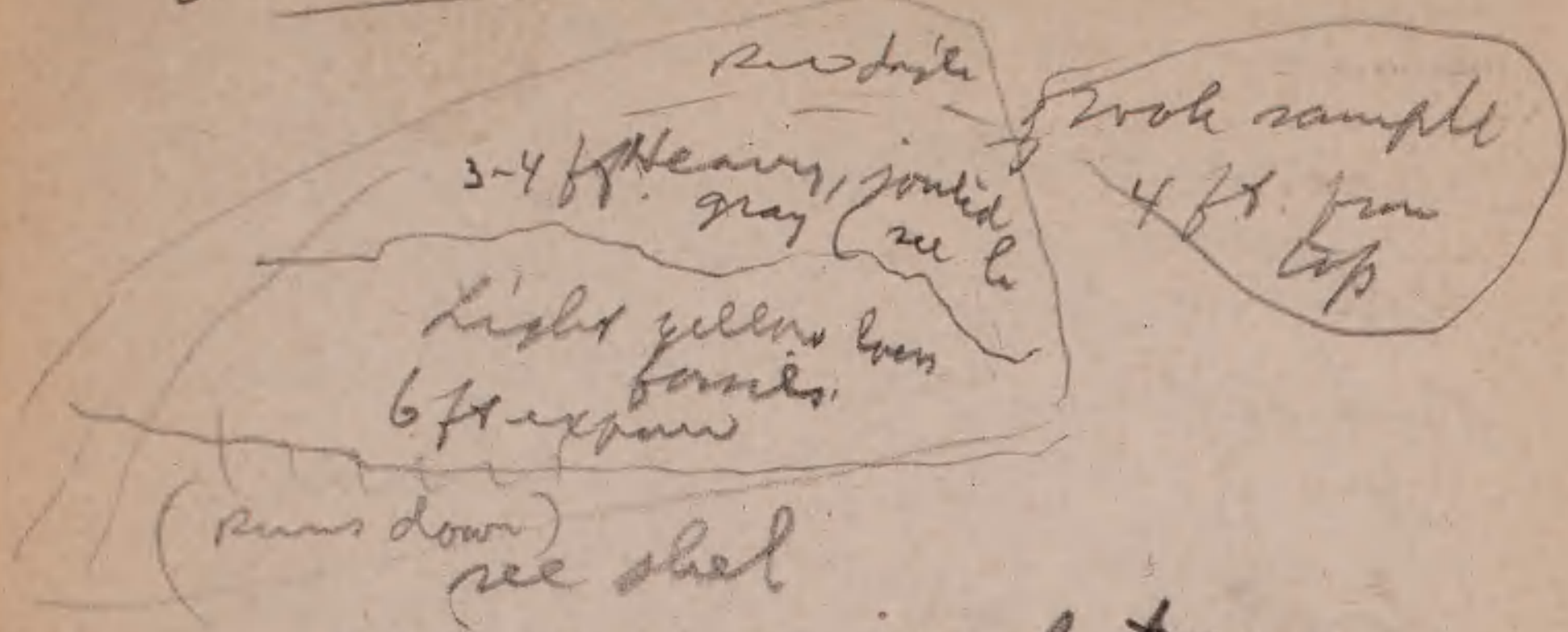
This big cut begins a short distance S. of the depot.

Several small cuts, running 6 to 8 ft, & thereabouts, north of the depot, along streets, etc., show the same red, jointed stuff of which I took sample in big cut. I also followed road N. W. for about a mile & found same red stuff.

At overhead bridge I took sample near top (on E. side) and it is the same reddish stuff.

When exposed to the air it turns yellow & becomes very loess-like. We drove (2:45 pm) towards Ashport to Ashport Bluff. This is N. of west of Ripley, & half-way to Ashport (= 8 miles)

Ashport Bluff (8 miles out)



The stuff in cuts between Ripley & this bluff is the red, lobular stuff as at Ripley. Ripley is on a high plateau. Out a few miles the level drops to another plateau & this extends to Ashport bluff. The surface is somewhat irregular, but a general level is maintained (broken) on these plateaus. As we approach Ashport bluff occasional grayish belts (a foot or two deep) appear on top. The above loess is a little below the top of bluff, along road winding down. There is gray lobular stuff above it. (Normal?) See shells & samples

Drove towards Fulton. Mostly red stuff everywhere until 2 miles from Fulton. Thompson hill is the long hill about 2 mi. from Fulton.

Here there is a long hill & the lower $\frac{1}{2}$ or more than $\frac{1}{3}$ is the red, lobular stuff.

Above this is a bed of light yellow loess with gray root marks (lower down it is quite gray)

about 8 or 10 ft exposure (10 ft. with gutter on NW side).

A good many shells are scattered through this, & a few (very few) nodules were found.

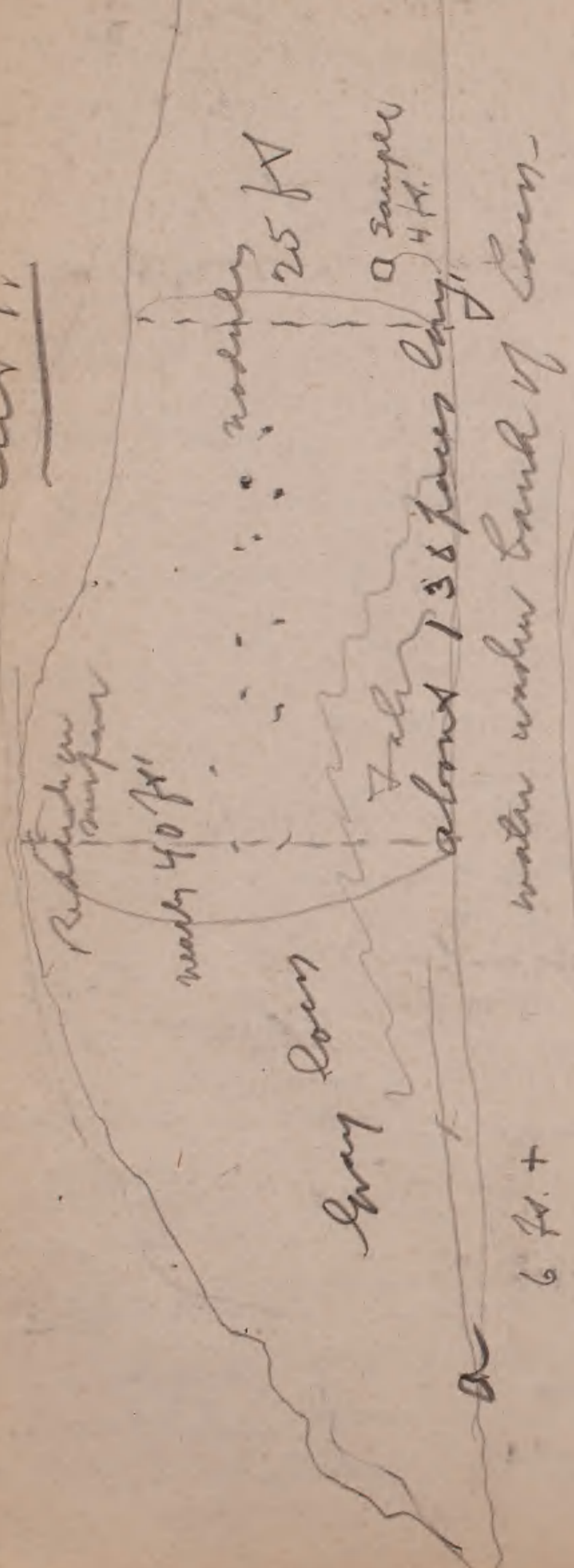
The loess runs up another third or more, & then, above it (or part of it) there appears the red lobular layer like at Hickman.

also collected a corn of *Quercus rubra* on the hill. Leaves were too high.

Drove to Fulton

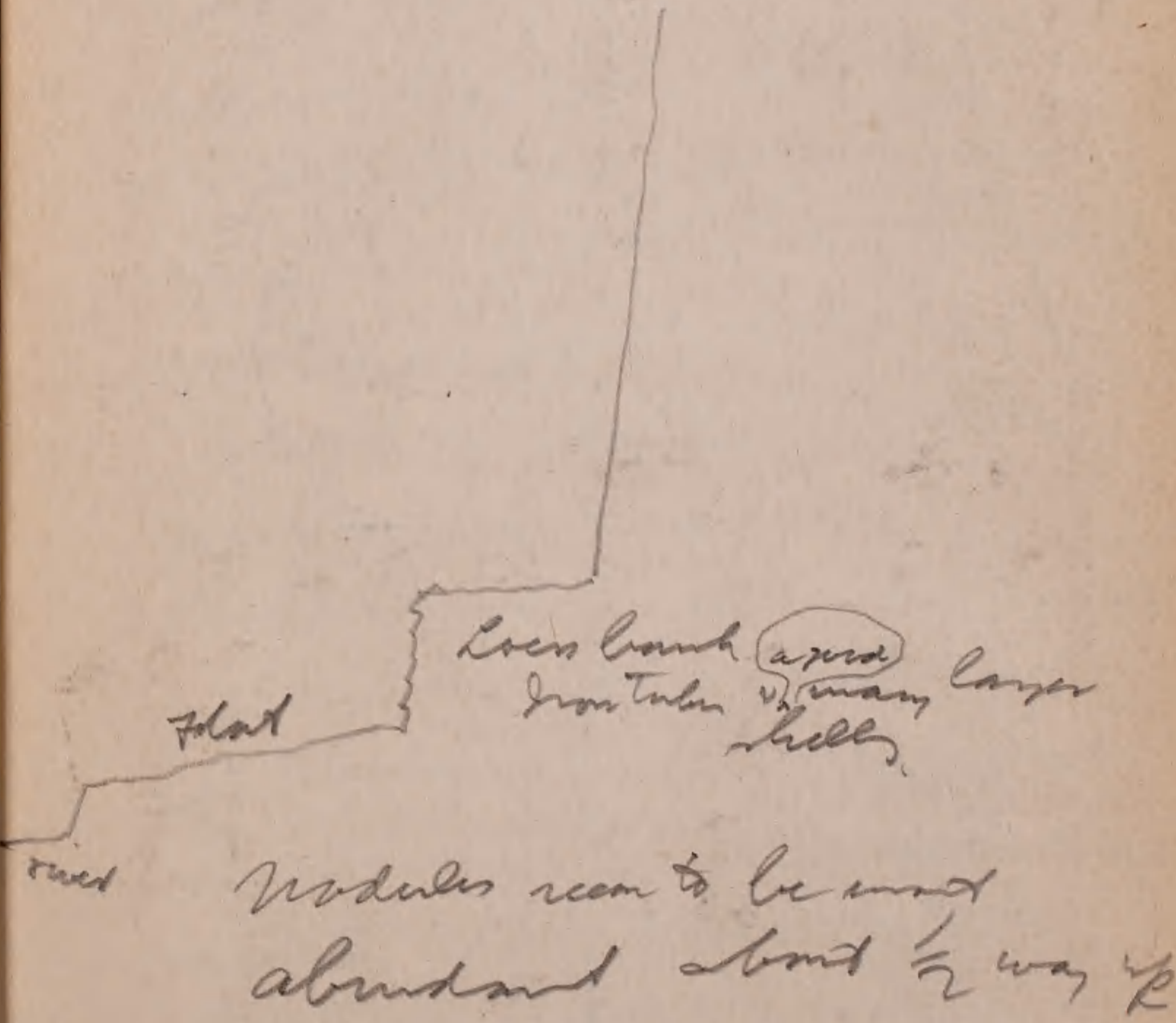
The Fulton bluffs are fine.
Just above store is bluff 1.

Cut 1.



Lead to river, - with
 step near water,
 now low water high water
 evidently marking a

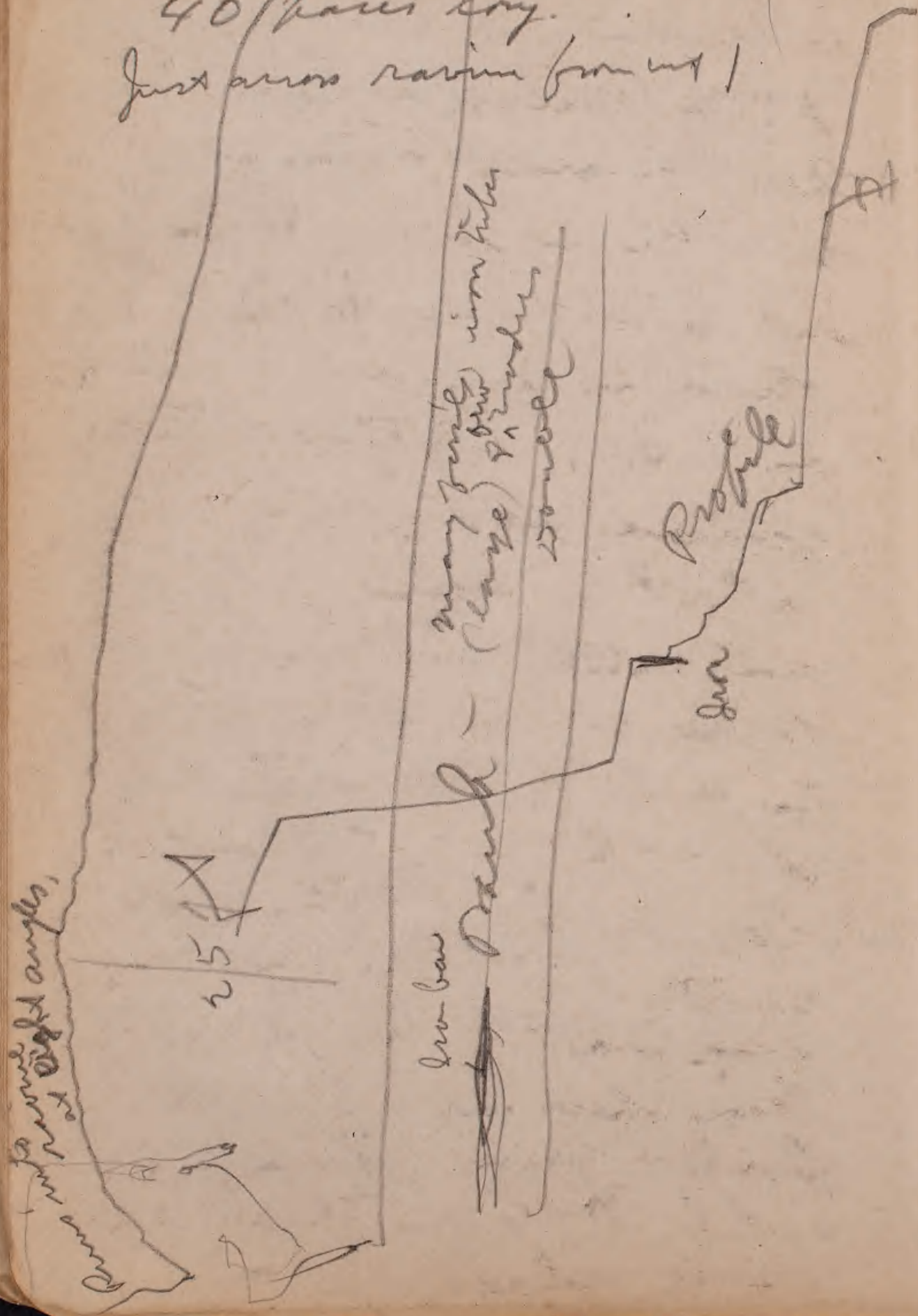
The loess in the first
 bank below cliff is gray with
 many iron tubes & blocks.
 The fossils in this lot were
 taken mostly by digging, from
 first six feet above bank.



Nodules seem to be most
 abundant about 1/2 way up

Bluff 2 is E. along
river & is similar, but
its best part is only about
40 paces long.

Just across ravine from cut 1



In the vertical gray loess
above bank or bench the
shells are mostly smaller &
scattered (see box)
In the bank or bench
there is gray loess with
many large iron tubes,
especially in cut 2.
Nodules are abundant
in cut 1 scattered through
vertical part (especially
about middle). These
are mostly rounded.
Nodules are also abundant
in cut 1 & few at E. end
of cut 2 in upper part of
bank or bench. These are
mostly more irregular.
Large iron tubes are found in bench.
Large shells are abundant in
bank or bench, especially in
cut 2. Were these thrown out
on old shore?

It is evident that high water reaches base of vertical bluff & work could not be done here in high water times.

I collected shells from bank & vertical bluff (separate lots) in cut 1, & from bank in cut 2.

The upper part of vertical bluff looks reddish, but where fresh exposures (small scalings) appear, it is gray.

Took sample of gray loess from 4 ft. above base of vertical bluff in cut 1. Also sample & root-tube (iron) gray loess of bank, a bench in cut 2.

I saw no pupae. Had 2 punctures & the light sign's work. We got in about 9 P.M.

There are less prominent bluffs below Fulton, & also some above cut 2, but the river bends to East here and I could not make out.

This was well worth while. A steamer came down the river, just touched for mail & sailed on.

I spent night at the Western Hotel.

It rained in streaks between Fulton & Ripley. At Ripley, but little, & dust was very deep at & near Fulton.

Friday, Sep. 7, 1917

Arose at 6³⁰. Packer
left on the belated fast train
at 7⁵⁰, reaching Covington about
8³⁰. Trip & bus were left at
station by taxidriver & covered later.
Arranged for drive to Randolph
& to Richardson's Landing
miles below.

It is sultry & warm, with some
clouds, but I hope that it will
be safe.

We started out at 10 am &
drove to Randolph. The bluffs
here are mostly slumped &
overgrown & I found no loess
collected ferns & other plants
in woods, & also a few
shells.

Drove to Richardson's Landing,
5 miles below.
There are great high bluffs
above Richardson, - I should say for
a mile or more. Upper part loess,
next gravel, then stratified
shaly stuff. I could not reach
the main body of loess, but

took a sample from near side on
medium high part (south).

On looking down the wall of loess, covered
me a few shells (?) ferns, etc. in low woods.

Steep pitch, 1 mi. this side of
Richardson, shows 1/2 way down
a gray loamy, putty stuff &
over it yellow loess (?) 8 ft
color.
Further up hill bulk is red
mottled, - 12-15 ft.
Over it, on top, boldan
red - 3-4 ft.

See ranges of loess

There were no fossils & no
nodules.

Collected oaks (black oak
group) on upland a mile or
more beyond this steep pitch, -
hence not far from Randolph.
All of these oaks have rather
smooth bark.

I took specimen of the
branches (leaves) & acorns.

They are numbered to correspond.
There were all clear loess.

along road 10 mi. W. of
Corington is a cut, ^{best part in} 80
paces long & running up to
12 ft. deep.

It is soft yellow loess, with
very few nodules & scattered
shells.

See sample

" nodules.

" shells.

Occasional blue marks
appear in some of it, especially
lower down on slope.

See sample of each.

Fossils are scattered all
along & through it.

The loess extends down hill
beyond the top (at end of 80 paces)
& a few shells are scattered
in it.

Drove in, had supper &
took 6³⁰ (6⁴⁵) pm train
for Memphis after tedious
wait, left at 11⁴⁰ pm for
Forest City

W. G. Barnes
Marble, Ark.

Is interested in plants
met him on train, will
live in new Arkansas
on train to Memphis.

Sat, Sep. 8 1917

Reached Forest City at
2 AM, & put up at
the depot hotel
arose at 8, & after
arranging my materials,
looking up time tables
etc., I went on Cronk's
ridge & worked from 10 am
until 3 PM.

On top of ridge is the
same lobular, coarse, hard
red layer that I found
in Tenn. There is also a
reddish layer below
which is more loess-like

also some grayish, like
hard gray stuff near
Randolph. In fact all
this top of Crowley's ridge
is strikingly like the inland
stuff at Ripley & Covington.

The top of Crowley's ridge
is not fertile, - crops look
poor.

This reddish stuff when
pulverized looks like yellow
loam, - in roads, etc.

I walked on top of ridge
about 3 mi., along road
which curves S. E. & then
N. E. towards Madison.

Collected plants, etc.

On curve S. of Forest City
as you ascend the ridge the
hard, red, coarse, lobular
stuff in on top on hill.

Below is a more consolidated
reddish layer.

Took samples

Part way down the slope
a hard (when dry) gray loam-
like stuff appears.

At the foot of the hill
there is a layer of gravel,
3 or 4 ft. deep, - red, -
& over it is the reddish
somewhat loam like stuff.
See sample.

On the older part of the
bank there is a redder
subsoil (film) on the
surface. Beneath it
the stuff is yellower.

This part of Crowley's
ridge seems to be clearly
related to the stuff at
Ripley & Covington.

I picked open cotton bolls,
some plants had green fruits
& ripe fruits & flowers.

Packed, shipped a basket
wrote letter to Cyba, had
supper and took the

7¹⁴ PM. Train for Poplar
Bluff, there to change for
Cape Girardeau.

Reached Poplar Bluff about 3³⁰
after change & waits at
Wynn & Noble (an awful
way to go). & waited about
station until after 6 AM.
Then went to Frisco depot,

2 blocks away, Sunday, Sep. 9, 1919
Left at 7 AM.

RR. runs along bottom land.

Saw pond with *Najas*
advena with leaves, &
short petioles, rising out
of shallow water.

along RR. saw:
Andropogon scoparium
Cuculia tuberosa
Solidago nemoralis
Cassia chamaecrista
Oenothera biennis
Trifolium pratense

Ambrosia artemisiifolia
(many pools with *Najas*,
Najas, etc.) *Lobelia cardinalis*)
Quantities of fine leaved *Halenia*
cut masses, log house,
at the little station Green Cox
we first came in sight of the
low wooded bluffs, - some
distance to the left. all along
we have been passing ~~the~~ bottom-
land, - mostly forested.

We approached close to the low
bluffs at the next little station.
Soon we left the bluffs
again & traveled through bottom
woods & clearings.

We passed several small saw mills.
The plants are mostly low-ground.

Hibiscus militaris
Coreopsis (ridens?) fine red
Eupatorium - white
Vernonia fasciculata
Zizia aurea
Polygonum -
Lobelia cardinalis
Cyperus
Cyperus

Alisma plantago

For some distance we ran next to a higher bench or terrace. This was approaching Wash & at that point

A lot of girdling of trees near Wash. We backed from Wash from Rock View on there are rocky bluffs nearby.

We backed to Chaffee, then forward again to Rock View, & Wash.

At Wash is a big quarry. Here we run close to bluffs - limestone. Reached Cape Girardeau at 11 am

At Cape Girardeau there is a rather abrupt bluff above depot (1 block to north) It is not the very highest bluff along here, but is well up, nearly on level with general upland.

The material is calcareous heavy jointed reddish, like stuff in Tim & on Crowley's ridge. Occasional gray strata in it. (see sample)

I saw no loess.

When pulverized, as on road, it is loess-yellow.

The bluffs here probably run 60 to 80 ft.

I collected a tall grass & a white Eupatorium, both on the bluffs, but both common on the low lands through which we passed.

Also a *Vernonia* on the slope.

We left Cape Girardeau (as called from a rather low point projecting a short distance into river!) at 3³⁰ pm. - 35 min. later.

In places there are rocky bluffs close to RR. At St. Genevieve no bluffs worth mentioning are in sight, - just a little swell, or elevation, on which town stands

There are practically no negroes in the Territory this side of

Poplar Bluff.

Members of them come from Mississippi into Arkansas. St. Francis county has 5 negroes to 1 white.

The women are better workers than the men. The latter "run after women all night", & are no

good wet day. To rain a
farmer with whom I rode
near Forest City.

Land values have been going
up. Land of flats, some of it
now \$90 per A. Much of it
still for \$35. - This near
Forest City.

Above St. Genevieve are low
rocky cliffs & slopes.

At next station hills became
higher.

I noticed no large bars
in this part.

Now came to some bars -
mostly mud.

Train was late. Reached
St. Louis at 8⁴⁶ PM.

Mr. Cyka, Mr. Svoboda and
Mr. — (with auto) were waiting
for me. Went to Cyka's for
supper.

Monday, Sep. 10, 1917

Went to bed in sleeper just
after midnight. Awakened at Quincy,
& we reached Keokuk at 7⁴⁵ AM.
I walked down the track towards
the Des Moines.

Collected shells on the wooded
rocky slopes, & also under sticks
on flat.

Under stones I found *Poly. affinis*,
(several) 1 *Pch. fruticosa*, *Papa*
armifera, *Papa fallax*, *Patera* ^{abundant}
Others under sticks.

I collected a good many plants,
both along RR, & in the wooded
slopes, & in an opening above
the big clay-bank on the Des
Moines.

This clay-bank shows rock below,
then gravel, & then a mottled
mixed mostly gray stuff (see
sample) like some of that
near Pottsville, etc.

There is no true loess here.

and this stuff seems to
belong to that southern
series which I followed in
Ky., Tenn., Ark., & S. Missouri,

I picked up a goodly
number of parasitic fungi,
& a few other things.

This has been a pretty good
day. Returned at 6 P.M.,
had supper at station

Left at 7⁴⁵ P.M. (late - 8:20)

Waited at West Liberty
until 4³⁰ A.M. & reached Iowa
City at about 5 A.M.

Trip to Mason City, 1917

Sep. 21 - RR to Cedar Rapids \$.50.
Sep. 22 - RR to Mason City 2.83
Pullman 1.50
23 - Boat, C.A. Condit
Cross Lake 1.00
- RR to Cedar Rapids 2.83
Pullman 1.50
- RR to Iowa City .50
Breakfast - en route .48
\$ 10.61

To Mason City, Sep. 21, 1917

Left Iowa City at 11:30 AM. Reached Cedar Rapids at 12:50 AM -

Sep. 22, 1917

Left Cedar Rapids at 1:15 AM. Awakened before we reached Packerburg. Everything looks decidedly fall-like. There had been a killing frost.

The day bright, but somewhat hazy. Interesting contrasts are noticeable.

Corn is broken, dry, brown, excepting at very base, but right alongside of it is a fresh green *Cirsium*,

or *Helianthus graminifolius*.

Noticed within $\frac{3}{4}$ mi. of Mason City,

The following in flower:

Gentiana puberula *Oenothera biennis*

Solidago nemoralis

" *v. angustata*

" *canadensis*

" *rigida* (rather old)

Aster novae-angliae

" *laevis*

Helianthus graminifolius

Cirsium discolor?

Aster laevis

Following are through:

Silphium laciniatum
Liatris pycnostachya
Solidago lanceolata
Andropogon furcatus
Elymus canadensis
Prenanthes aspera
Panicum virgatum
Andropogon scoparius

The whole aspect of flora is that
of late fall. Can & native
flora both show it.

Reached Mason City at

8¹⁵ & drove to Jock's.

Joe had Mr. Stephanson take
me out to the prairie east of RR.
along N. side of Slough.

Mr. S. is an old friend of
R. M. Anderson (at Forest City)

The slough here seems to be
crowded chiefly with a big
Bidens.

East prairie, along road & slough.

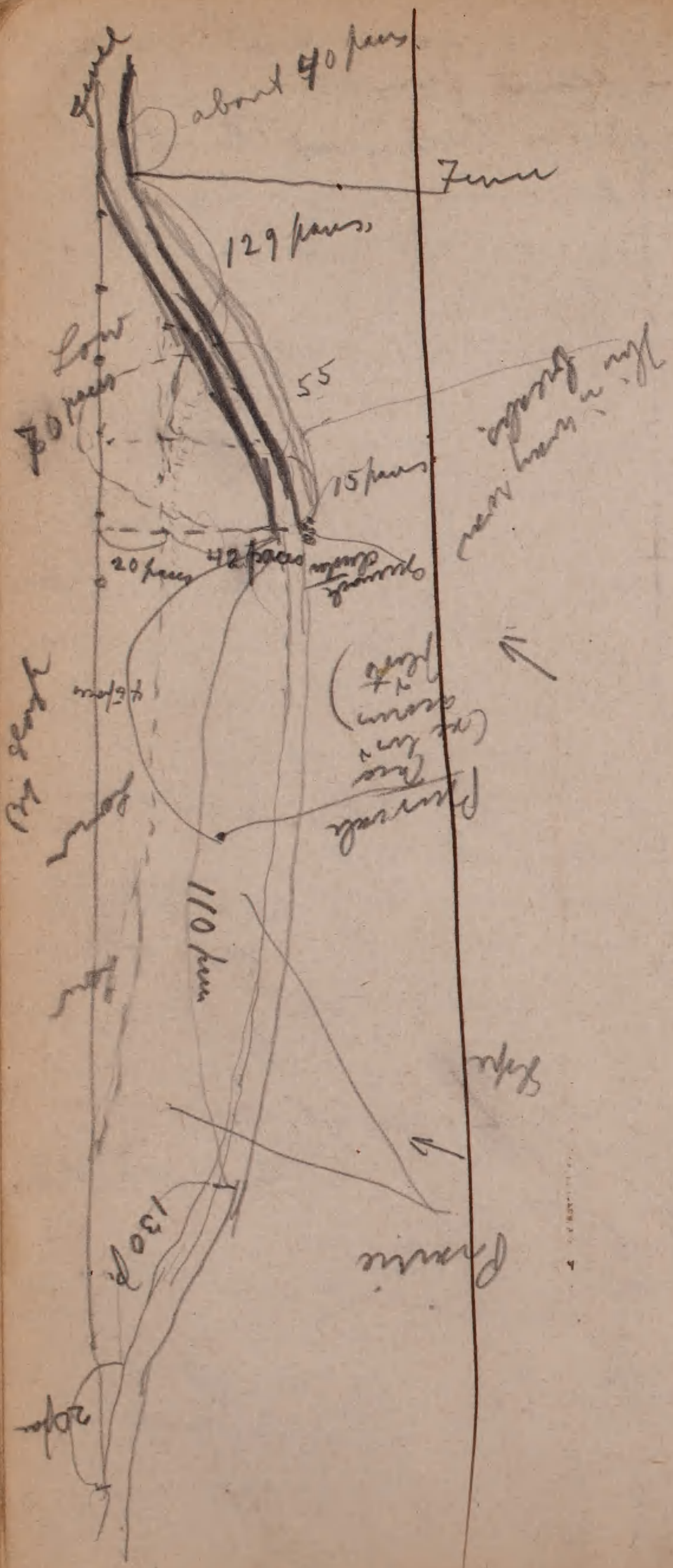
Linum sulcatum - fl. + fr. - few scattered
Aster laevis, fl. - common
" *multiflorus* " " "
" *montanus* " - rather common - low down.
Solidago canadensis - fl. - scattered
" *rigida* - fl. + fr. - common
" *v. angustata* - fl. - common
" *memoralis* - fl. + fr. - several
Erigeron ramosus - fl. - few
Phlox pilosa - old fruit, scattered
Scutellaria ludoviciana - fr. - several
Silphium laciniatum - fr. - scattered
Lepachys capitata - fr. - common
Arenaria cypripedifolia - fr. - scattered
Helianthus scabra - few fl., mostly fr. - quite common
Momordica unguis-cati - common - fr.
Helianthus grosseserratus - fl. - common
" *scaberrimus* - fl. + fr. " "
Arenaria canadensis - lf. - low down - common
Centromerus pulchellus - fl. - scattered
Erigeron annuus - lf. - not rare
Asperula hartwegii - fr. - scattered
Lythrum hyssagifolium - fr.
Spiraea alba - lf. - lower
Lepachys pinnata - fr., few fl. - common
Melilotus alba - fr. - chiefly along road
Petalostemon candidus - fr. - scattered
" *purpureum* - fr. - more common

- 30 *Cirsium* - scattered
Liatris cylindrica - fr. - few
 " *scariosa* fl. + fr. - common
Ceanothus americanus - fr. - scattered
Artemisia ludoviciana - fr. - scattered
Desmodium canadense - fr. - few
Branchea angustifolia fr. - old - scattered common
Prenanthes alba - fr. + fl. scattered
Erigeron borealis - lf. - scattered
Panicum acutum lf. "
Eryngium yuccifolium fr. - few
 40 *Thalictrum dasyc.* lf. - scattered
Veronica virginica - old fr. - scattered
Elymus canadensis - fr. - common
Cirsium discolor - fr. - few
Stipa (?) - blades only - ~~scattered~~ (very)
 45 *Asclepias syriaca* - scattered
Potentilla arguta - old fr. - scattered
Lithospermum canescens - lf. - scattered
Rosa - fr. - scattered
Equisetum - few
 50 *Coleosporium palmatum* - fr. - scattered
Amorpha canescens - lf. - scattered
Salix humilis - lf. - common
Lepidoptera - (fines) - few
Aster americanus - fl. - scattered
 55 *Physalis peruviana* - lf. - "
 " *sp.* - lf. - few
Sorghastrum nutans - fr. - scattered - done
Panicum virgatum fr. - " "

- Koeleria cristata* - old - scattered
 60 *Helianthus major* (?) - lf. - few
Rudbeckia hirta - fl. - few
Delphinium leucostachyum - old fr. - few
Lathyrus venosus - fr. - few - up?
Monticola saxosus - old - few
 65 *Ambrosia psilostachya* (?) - fl. - 6
Acerata rudis - old - few
Vicia pedunculata - lf. - scattered
Oenothera biennis - fl. + fr. "
Verbena hastata - fr. - few - below
 70 *Prenanthes racemosa* - fl. - scattered (fresh)
Fragaria virginiana - lf. - above - scattered
Achillea millefolium - old - above - scattered
Ambrosia trifida - fr. - small - above - "
Cirsium discolor - lf. - com. above
 75 *Elymus strigosus* (?) - old - few
Delphinium herbaceum - above - small clump
Prunella virginiana - lf. - 1 small above
Orally filipes - fl. - scattered
Potentilla canadensis - fr. - scattered

A fine piece of typical prairie
 Photo 15 + 16 - looking E. - in the East prairie
 slope to S. + a little west -
 River probably 12-15 ft above swamp

Also collected loc. + decorn from
 low oak - solitary - Cudley, 30 ft
 high - 9 in diam. in E. prairie



Photos 15 & 16 - looking E. (E.S.E.) along
Big Slough from road.

Photos 1 & 2 - Looking up the Big
Slough from road.

Worked along the slough W (W. of road)
The prairie on E. side showed.

- Antelope* *cutipendula* - fr.
- " *olivacea* - old
- Small grass.
- Pteris* *arguta* - fr.
- Grass*
- Andropogon* *furcatus* - fr.
- " *scoparius* - fr.
- Abies* *remoulei* - fl.
- (etc. - see above.)

The swamp is nearly all overgrown
with a large sedge, & this is mostly
rusted.

There seems to be almost no *Hypnum*
fluitans, - but I found a flat plant
on mud (fine). *No fluitans is abundant*
in open part near road.
Quaking bog.

A few clusters of cat-tails when
the bog is very shaly near them.

- Found in swamp:
- Aster* - scattered
 - Stemonema quadrifolium* - a large *Carex*
 - Aster* (white heads!) - dominates.
 - Sium* - (see rust)
 - " - fine -
 - Salix*

I found shells but few.
Few *Syrnistrum*

More *Planorbis* — (4)

Very few large *Prindia*

No smaller "

No *Lymnaea* —

The place is partly drained &
is being choked.

A lot of buckbean appears
near road in open places.

Collected *algae* (*Spizopyra*?) E of
road. Found barley on wooded bank at
edge of Big Slough.

Returned & spent late night
the night carrying for leaves, etc.
which I had collected.

Sept 23 - 1917 Sunday

Left for Clear Lake at 8¹⁰ am.
Got boat & rowed straight S.
from street on which waterworks
comes in.

Dredges.

I - about $\frac{1}{3}$ way S. of Clear Lake
12 ft. - soft ooze. In jar.

II - about $\frac{2}{3}$ way S. of Clear Lake
13 ft. - more like little
pieces of mud. In jar.

III - just E. of Island, near
new S. shore - 8 ft. deep.
mud same. (In package.)

Landed at Grand View Pt. &

collected wood plants.

Also Oaks as follows:

I - Smooth bark, leaves small & deeply
notched. 13 in. diam. near edge of
grove.

II.

II - Oak - lower part (3 ft) of bark quite rough - upper smooth, (red oak?)
10 in. diam

III - Oak - 10 in. diam
lower 2 ft. rough - reticulated
upper - smooth plates (also red oak)
near lake shore.

IV - Oak - lower 10 ft. ~~rough~~ rough
(thin in rough bark than most, very reticulated)
upper - plates - gray - darker
between plates. A double tree, winter
at base. Diam = 11 in. (other 14 in.)

V - Three trees - one main = 10 in. diam
8. one = 12 in. lower 5 ft. rough.
gray plates, etc.

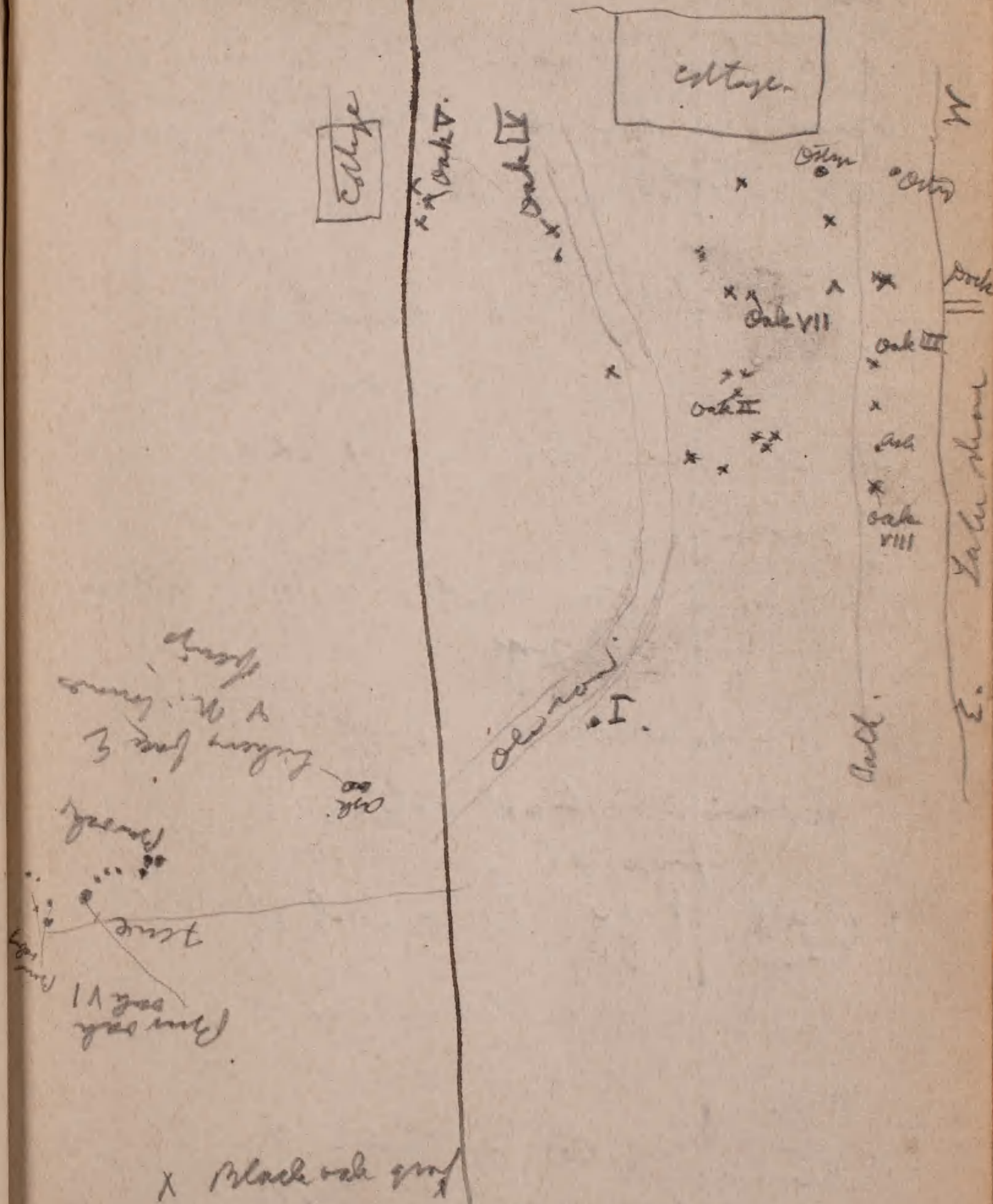
VI - One oak. At very edge of
grove, facing open place E. of 59.
one side tree - with long branches almost
reaching ground on E. side. Has rather smooth
bark. 12 in. diam

VII - Oak - lower 3 ft. somewhat rough
upper - plates - gray, darker
between plates, in cracks. A double
tree, winter at base. Diam = 11.

VIII - Oak - lower part (4 ft) of bark quite
rough, - upper smooth (red oak
fashion) - 11 in. diam. 12 ft. from
edge of bank, lake shore.

The bark of IV has rings
broken transverse so that
it is quite irregular.

all these trees (numbered) are marked
with Roman numerals on N. side.
Leaves were taken from 9-14 ft. high.



Lichens abundant
Most of the lichens are
on lower parts of trunks &
face mostly N-along bank, &
at S. edge of zone, S.
Some irregularly, - always
towards opening.

Quelby

IV - In line with Clear Lake Park
& gran view pt. & out about
250 yds from Pt. in ¹⁸ ft.
of water.

V - $\frac{1}{3}$ way N. from Point - ¹² ft. of water
Ooze.

VI - Half way on E. side, well
towards head there.

(Add ¹³/₂ ft. to each of above)

VII - 12 + 1 ft. - about middle &
well to NW.

Returned to Clear Lake &
collected a few same plants
on base sand beach.
Also mts, etc.

Drove to Mason Co. with the Montagues,
packed, & left at 9 P.M. for C. Lakes.
Along Interurban it is very
noticeable that the corn as well as
native plants, are fresh & green.

Reached home at 6²⁰ am.

To Decatur

Oct. 4 RR. to Iowa City	8	.65
RR. to Decatur		2.50
Supper, Maquon		.35
(Hotel Wimmerlich - paid)		
Oct. 6 Hotel Albion	Smoke room, breakfast	1.75
Oct. 7 Albion Hotel	" + meals	2.25
Breakfast (Mr. Orr) portable		.45
RR. to Iowa City		1.66
Dinner, Iowa City		.50
RR. to Cedar Rapids		2.26
RR. to Iowa City		.65

13.02

RR. Ph. by Decatur	5.00	9.02
meals	4.00	4.02
	9.00	50

To Decatur - Oct. 4 - 1917

Left Iowa City at 2³⁰ PM +
Cedar Rapids at 4⁵⁰ PM.
Train is poking along, nearly an
hour late at Delwin.
Mr. Wickham travelled as
far as Independence.
Reached Decatur at 11¹⁵ PM +
went to the Wimmerlich.

Oct. 5, 1917, Friday

Took walk in park. A beautiful
natural park on bluffs north,
really finest in state.
At 8⁴⁵ AM went to Congregational
Church, where I met Mrs. Keiserman,
Mrs. McVicker, + other ladies.

Talked 35 min., mostly on
patriotic duty.

After address went to park +
worked oaks.

Also noted street + lawn trees
on morning trip.



Oak 1 - Pin oak - a little over a foot
in diam. Rather smooth (finely
reticulate) bark dark gray
about 45 ft. high.
Ferus pointing south.

Oak 2 - Q. (male?) Dark bark,
not very coarse. Took lowest
leaves & stem 15 ft. up.
About 1 ft. in diam.

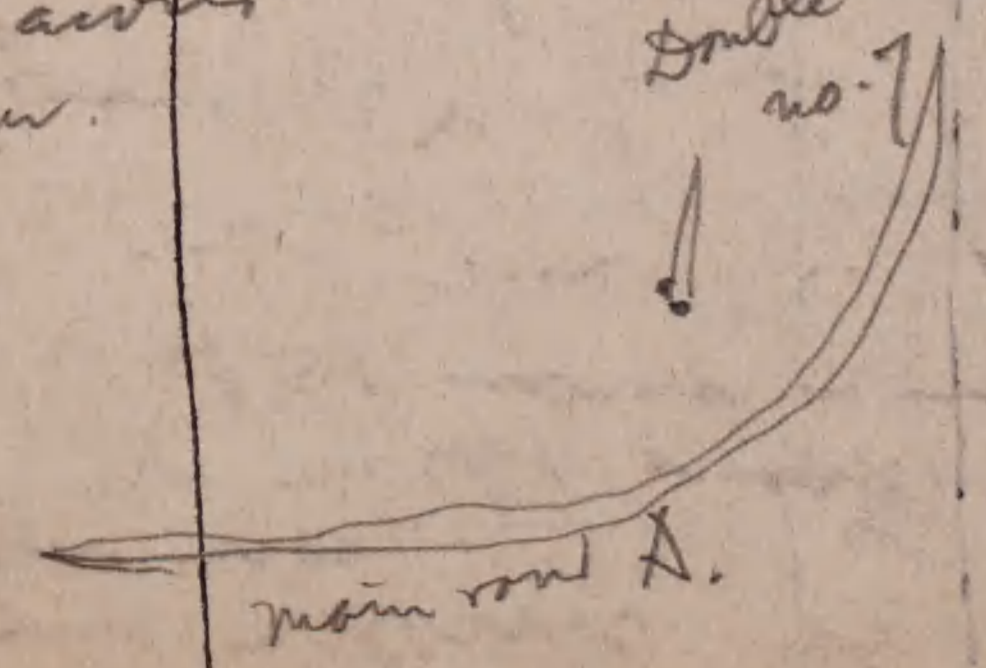
Oak 3 - Red oak - acorns only - leaves
high. diam 18 in diam.

Oak 4 - Red oak - coarse bark
18 in + in diam.
with elec. light fast to it.
4th tree to left of burn
no leaves - too high

Oak 5 - Small acorn - well up on slope
near pavilion 10 in. diam
coarse bark, very "lickery"
on N. side towards spring
acorns brown but only a few

Oak 6 - About 1 ft. diam, not
tall - one used -
Bark moderately rough only
upper trunk & large branches
with plates like red oak.
No acorn & leaves

Oak 7 - Pin oak (was this marked 6?)
A forked or double (low oak) - 5. one
Few acorns - each part about 1 ft. - some
large.



Left for Deepport at 2³⁰ PM,
 our first into the meadow,
 Oak 8 is mostly up slope, first
 black oak above road, behind
 Deepport (N. of bridge)

Bare (main) hill top tree had, ^(high)

- Eupatorium allium - fl.
- Elymus canadensis
- Aster multiflorus v. old fl.
- Solidago nemoralis fl.
- " canadensis
- " verticillata fl.
- Munaria mollis
- Rhus glabra - very common
- Verbena hastata
- Asclepias syriaca
- Cirsium discolor fl.
- Desmodium canadense
- Cactaceae canadensis (mildly smooth)
- Solidago virgata (- few)
- Rhynchospora alba var.
- Lepidoptera capitata
- Coleoptera palmitis
- Pycnanthemum flexuosum
- Lepachys pinnata
- also - few
- Aster brunnescens
- Asclepias (moss)
- Aster fulvipes
- Aster novae-angliae
- Achillea millefolium
- Rumex crispus

- Veronica basicaulis
- Gnaphalium polycephalum
- Ruebeckia laciniata (few)
- Eriogonum canadense
- Poa halepensis
- Corylus americana
- Chenopodium biennis

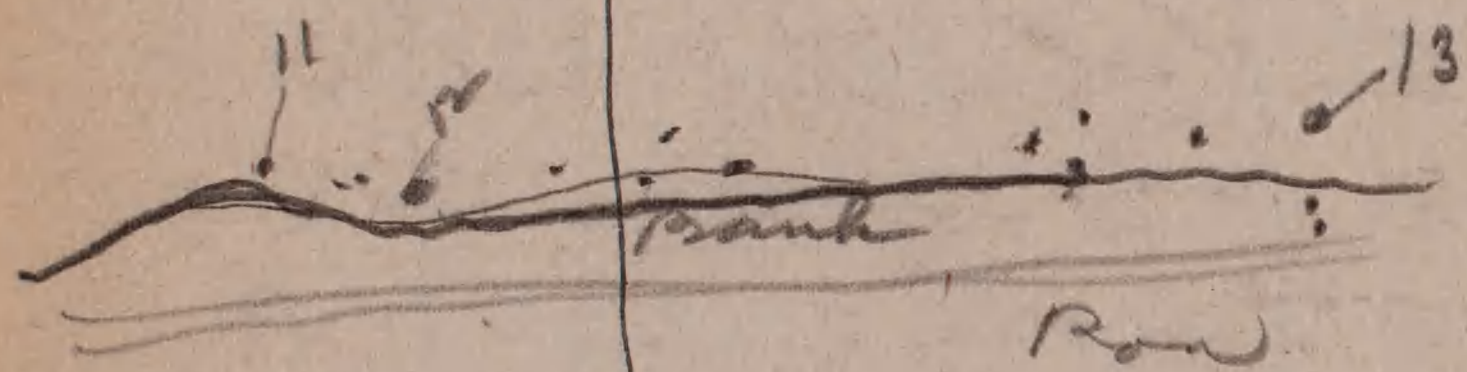
Almost at top of hill in SW. cor
 of fence - are two black oaks -
 The N. one is Oak 10
 The S. one is Oak 9
 Bark is about 10 in in diam,
 dark & rather rough bark, low
 & squally crown.
 Here well exposed
 See across & down

- Amorpha canescens
- Petalostemum purpureum
- Rosa - low (arborescent?)
- Verbena bracteata
- Ambrosia artemisiifolia
- Euphorbia corollata

Oak 11 - On bank - N. of road -
 18 in diam - bark dark,
 reticulated (medium)
 broad, low crown,
 crown is thin & looks old.
 Oak 12 - about same size & a
 little farther East at

same level
Bright green & fresh.
Q. velutina

Oct 13 Still further E. &
of about same form & size
green & fresh.
All these are the larger
oaks here & are not
far from fence on bank.



Oct 14 - near fence on W. side
of row - Small oak
16 in diam - low, bushy,
reddish, green.
No words nearby acorns
plenty

Oct 15 - 20 in diam.
Q. borealis - in row -
(towards Washington Point)
Low, brown - bark & rough -
foliage still largely green

Other similar trees abound
along this row - but
there

Westernmost of 3 trees in
row near house - S.
side road.

Low low cut all along.
Oct 16 Just inside fence on
S. side of row.

Not rough, reticulate; bushy
fine leaved, mostly turning -
another lobed tree just W. of it
On N. side of row, both W.
& E. there are groves of same
size

Oct 17 Small oak - S. side
row & fence (only 1 Q. borealis
between 16 & this) - E. of 16
1 1/2 ft diam. not very rough
quite green

Oct 18 Just W. of 17 - Small oak
Similar - Note in fence
Reached Washington after 6 pm. &
put up at Allamakee Hotel.

Oct. 6, 1917 Sat.

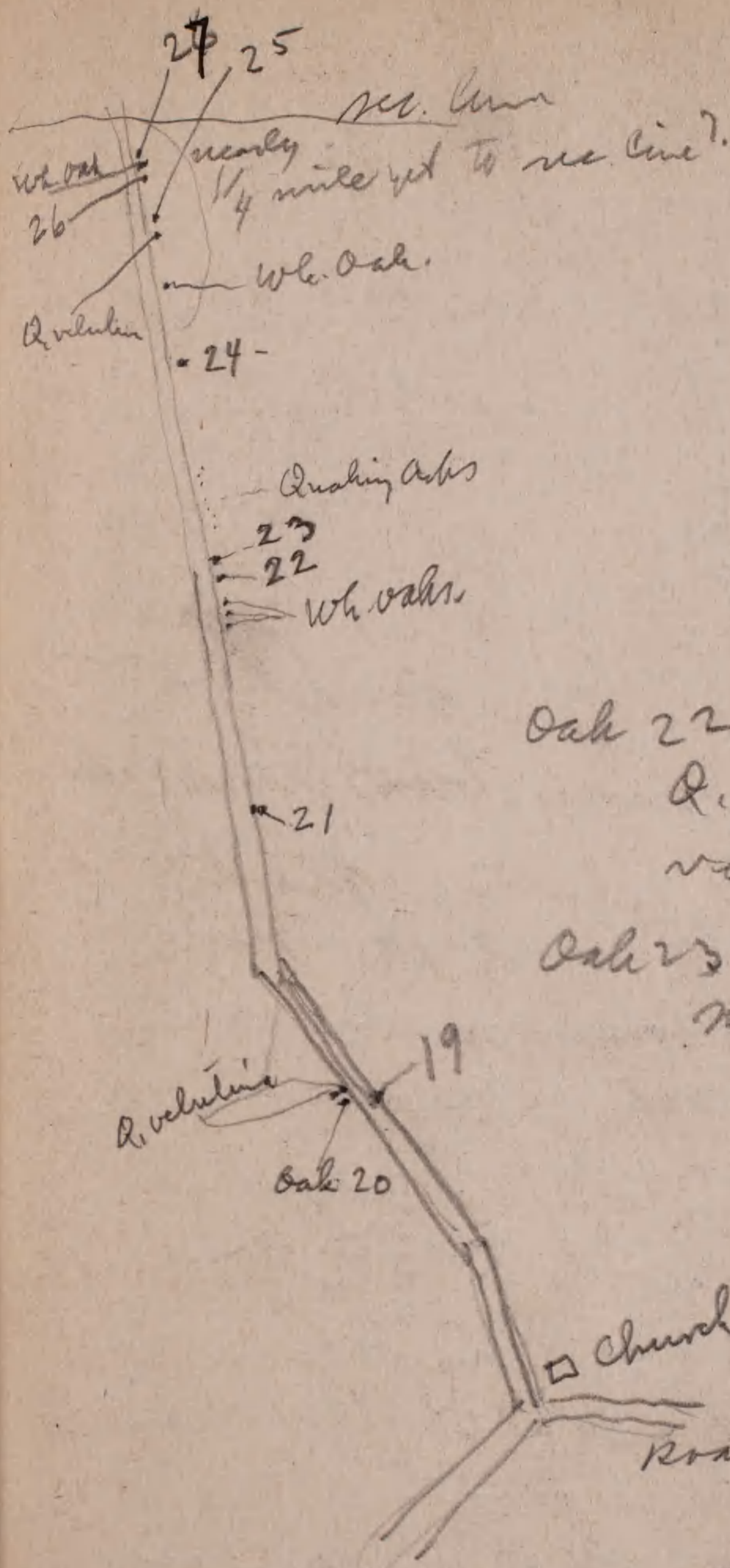
Started at 9 am, with Mr. Orr & his chauffeur, Mr. Sandbeck.

Went N. to cemetery. Collected a few Prairie plants.

Went towards low hill (big hill) on the Upper Iowa, Oak 19. White oak at fence on E. side of road, about 15 in. in diam, broad crowned; alone.

Oak 20. *Q. velutina* opposite (i.e. triple N. of) oak 19, inside of fence. Southernmost of 3 oaks. Other *Q. velutina* appear hereabouts. This is the common oak.

Oak 21 - Two *Q. velutina* (mine is East one), low, broad, each about 10 in. in diam.



Oak 22 - Low bushy
Q. velutina - 15 in diam
very green
Oak 23 - Scrambling somewhat
smaller, 1 ft -
also quite green

Oak 24 - Low, roundly, finer leaves,
small, narrow crown. Dark, not
very rough. Branching in 3/4 3/4,
scrambly, no clean swathe of
branches, very brittle.
About 4 in diam,

July 25 A scrubby *Q. borealis*?
About 1 ft in diam, also with numerous
scrawny, zigzag branches. - more
mature than 24 - branches to 700,

The contrast in branching is well shown
here. *Q. velutina* has larger sweeps
of branches - even this scrubby one.
The *Q. borealis* is just N. of a *Q. velutina*
both are in road near fence, *Q.*
borealis near middle between track
of road & fence. On E. side of road,

July 26 - looks like hybrid - low

are *Q. borealis*, across small
Q. velutina & branching is
also more like *Q. velutina*
Low, spreading, branches low
10 in diam

July 27 - *Q. velutina* (white oak
between 26 & 27) branched,
12 in diam.

Low, larger, branching lower
& straighter, not so many
branchlets.

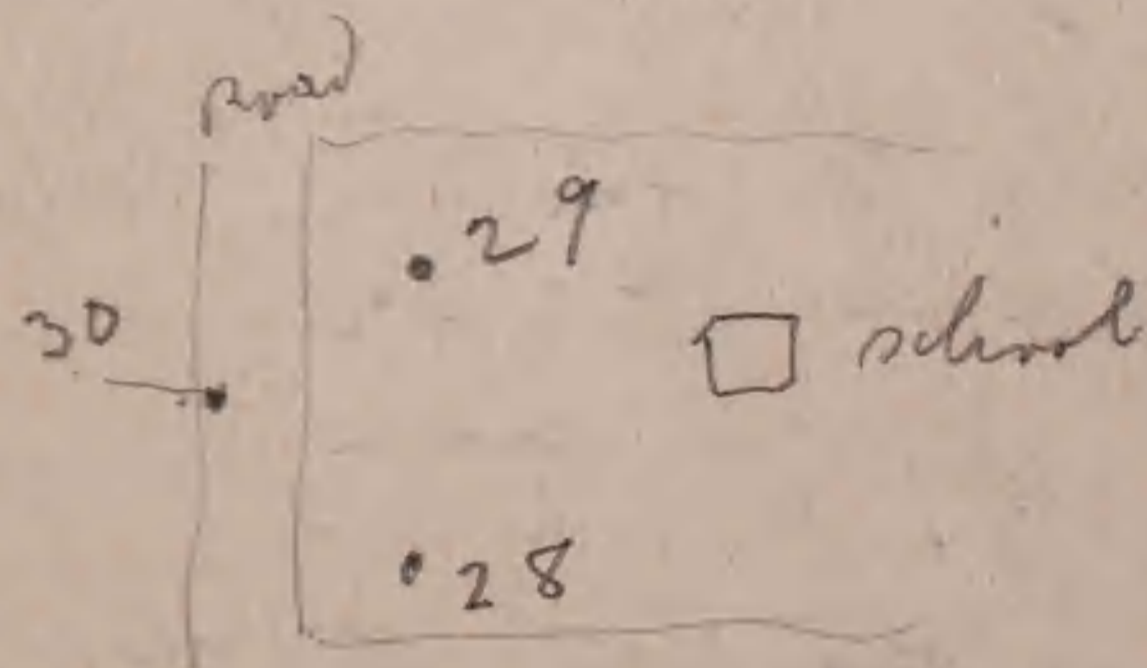
26 is intermediate in this
respect between *Q. velutina*
& *Q. borealis*

collected lichen on rock (immense)
in sec. 33 (at x) - St. Peter I.S

July 28 - More oak in school yard near
road - 20 in diam - low,
rather straggling, brown

July 29 - *Q. borealis* - in school
yard - 20+ in. in diam
Low, spreading, numerous small
zigzag branches. Few acorn

July 30 - on opposite of road from
school. *Q. velutina*
18 in. diam, rather low, but
almost as many twigs as 29.



On the big hill running down to
the Cresta I collected shells
in loess about 50 ft above
valley, - near top of a bend.

Then another out about 10 ft
lower.

There is a third part, just
a continuation which is 6 or 7 ft
lower still.

Loess is yellow & laminated above,
& with gray streaks.

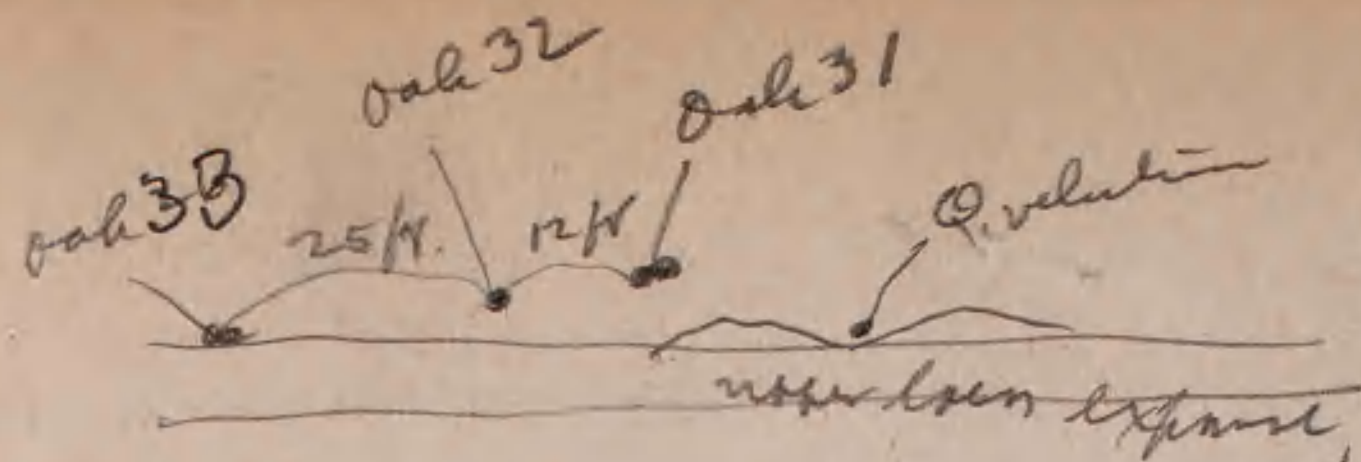
Below it shows lamination
& more gray. A very
few nodules appear.

8 or 10 ft. show in bank, but
the lower 6 or 7 ft. is
all that shows clearly.

Fossils run all through
the part clearly exposed.

Oak 31 - Schuchert's Oak?

Double tree back of upper
part of loess exposure, big
hill, upper part of exposure
Loess look like red oak but
lower part 15 in
smaller



Oak 32 - Driven 10 in. -
New oak. 12 ft. W. of
Oak 31

Oak 33 - 25 ft W. of 32, at
edge of bank. 1 ft. driven
across but no leaves.

At the foot of the last little slope
at foot of big hill 100 yds

back of cross-roads, there is a
deep gutter worked out (5 ft)

I collected several shells from
the loess here, & took sample.

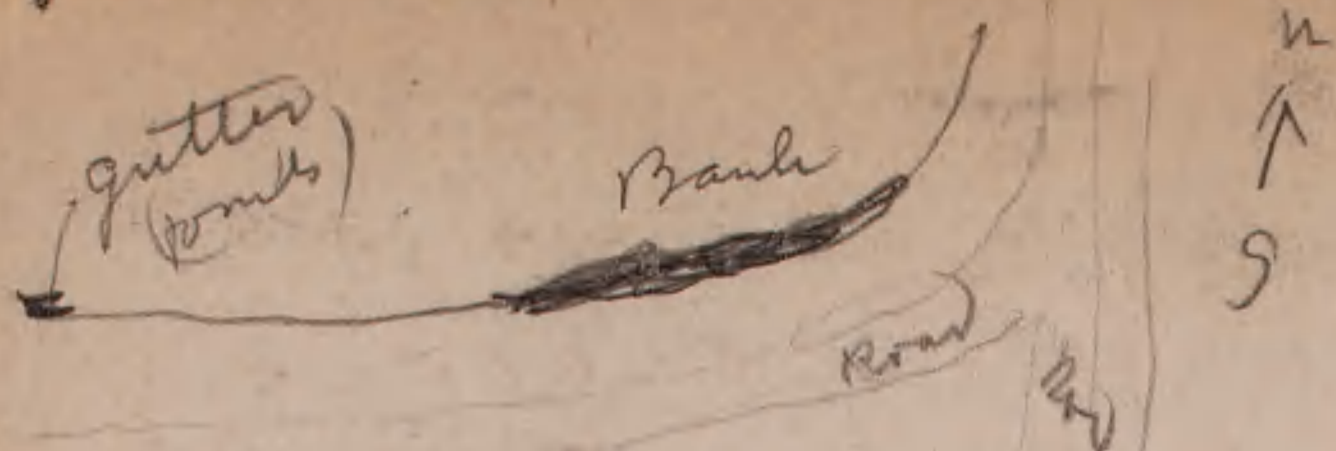
Pipidaria ornata
Cochlicopa lubrica

Polygona - some
were added.

The loess is yellow & soft.

Nodules in the lower part,
from gutter to crossroads, are
numerous & some large.

The shells in bank, ^{at crossroads} are mostly
at very base. The bank
at the crossroad is 5-8 ft
high



There were a few pebbles scattered
through upper sandy part
of the bank at crossroad,
probably washed in
this part is not true loess. That
shows at base.



Oak 34 - just inside fence -
on road E. of High Hill.
Has very small stunted cones.

In all this region *Q. velutina* +
Q. macrocarpa are chiefly abundant
and in deeper woods *Q. rubra* + *Q. schubertii*
On the other hand *Q. borealis* (?)
is on the high prairie + formed
groves + thickets.

Mr. Our remembered much of it
when young, small + scrubby. It
was on their farm N.E. of Portville,
At Charles City some trees, + a
fine pond and swamp near
station.

Oct. 7, 1917 Sunday

Started for Waukegan at 7³⁰.

Stopped in grove $1\frac{1}{2}$ mi. N. of
Portville, at end of straight stretch
of road, just N. of Laess cut 1.

Collected fungi & slime molds
on fallen *Populus monticola*.
Oak 35+ Is just N. of $\frac{3}{4}$ mi.
line N. of Portville, on west side
of road.

Tree is over 2 ft. in diam, bark
quite smooth. Tree bushy, branches
low. 2000 leaves & acorns.

Tree stands in road, a few feet
east of west line.

Mr. Dur promises to get information
from his father morning early
grove conditions, and to plat
his township (etc).

Dr. Smith was run into at 1st crossing
(E. & badly hurt - Head, ribs & arm
broken.) Train delayed a little.

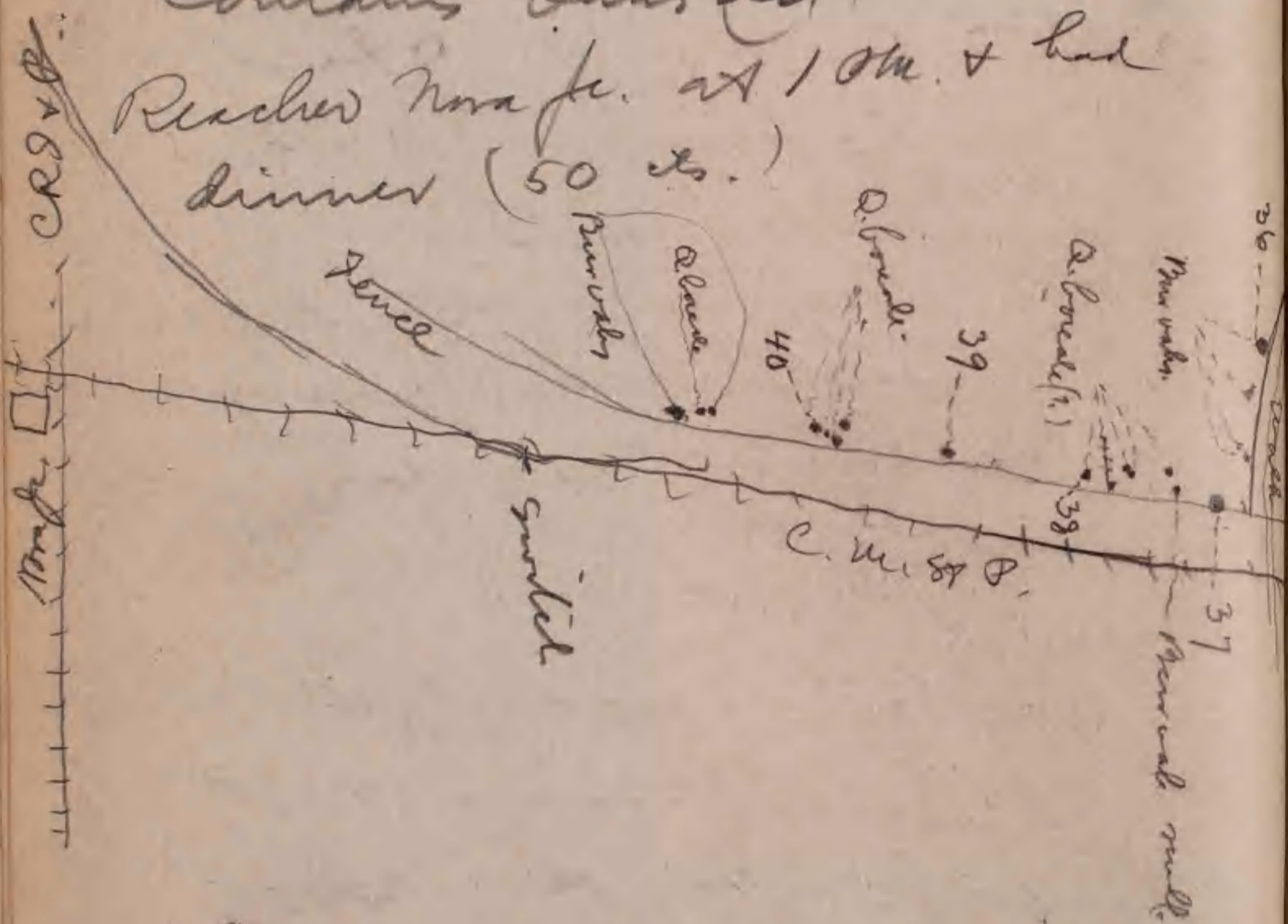
Left at 9³⁰ AM.

Saw promising grove just
before Calmer. Also at

Ed. Atkinson,

also some distance W. of New Hauptly,
near (E. of) Iowa, there is also a
grove just N. of station, across
narrow field, at Iowa.
Contains Oaks etc.

Reached Nova fc. at 10 M. & had
dinner (50 cts.)



There is a group of oak (mostly
rather small & low) between Nova fc.

& Nova Springs on low prairie, rising
southward. This was probably edge of
prairie grove (swamp edge), or
near it.

36 - Is a bur oak 18 in diam, stunted,
low-crowned, sturdy, brown.
Just inside of fence. Leaves
somewhat frosted & drying.

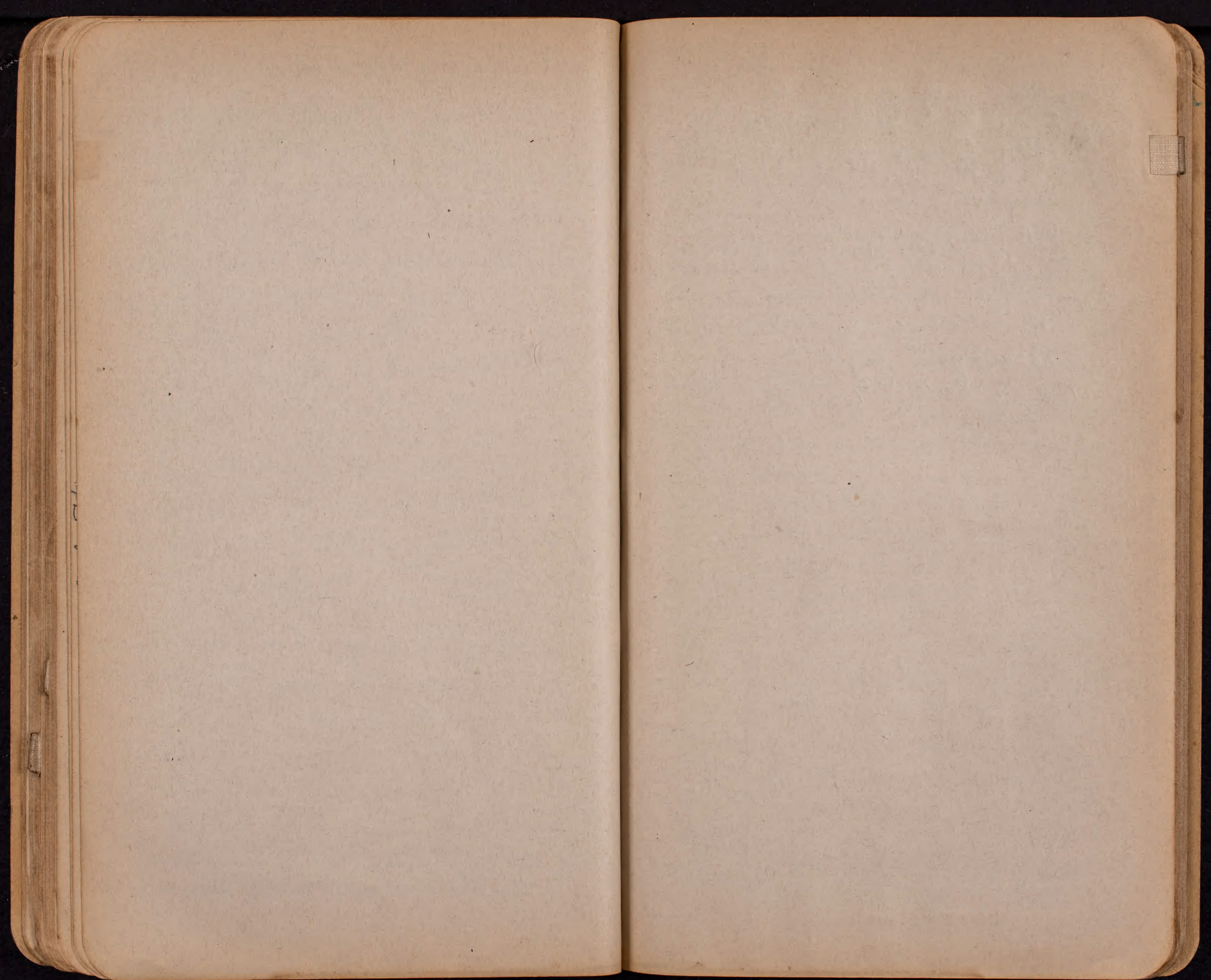
37 - Q. borealis(?) Low, in fence, distorted
by wire, about 14 in. in diam.

38 - Q. borealis(?) - with broken top, low,
Bark not very rough, reticulate
9 in. in diam.

39 - The largest of these Q. borealis(?)
Bark dark, moderately reticulate.
Inside of fence.
Has reddish leaves.

40 - The westernmost member of a group
of four (one small) trees grown
together at base. This one about
a foot (?) in diam.
Leaves quite green.

All of these are bushy, low-crowned
with branches hanging low, & with
thorns quite numerous, zigzag &
stiff. are brittle.



To Clarion, Mason City, etc.

Aug. 8 - RR, to Cedar Rapids (tax)	1.86
RR, to Clarion (notax)	3.81
Aug. 9 Breakfast ³⁰ , dinner ¹⁵ - Johnson's cafe	.45
Transfer - Clarion	
RR, Clarion to Mason City (notax)	1.31
Bus - Mason City	.25
RR, Mason City to Ft. Atkinson (notax)	2.07
Aug. 11 - Hotel - Lawler - room	.75
RR, to Mason City, (notax)	1.69
Breakfast ³⁰ Lunch ⁴⁰	.70
RR, to Iowa City (notax)	5.25
Lowr " "	.50
	<hr/>
	17.64

Clarion, Ft. Atkinson, Mason Cy.

Aug. 8, Friday, 1919

Left at 9⁴⁵ via Interurban.

reached Clarion at 4³⁵ am
(train 30 min late)

Aug. 9, Sat.

Wright Co.

Had breakfast at restaurant.
Walked along CR & P RR. towards
the east. The cutting along RR
has been grazed, but on banks,
under fences, etc., I picked up the
following:

- ✓ Aster multiflorus - bud
- ✓ Potentilla canadensis - fr
- ✓ Glycyrrhiza canadensis fr.
- ✓ Liatris pycnostachya fl & fr
- ✓ " cylindrica fl.
- ✓ Pium verticillatum fl (low)
- ✓ Lactuca ludoviciana (young) fr.
- ✓ Onoclea sensibilis fl.
- ✓ Thalictrum dasycarpum fr
- 10 ✓ Lepachys pinnata fl
- ✓ Viola cucullata lf. (small)
- ✓ Solidago missouriensis fl.
- ✓ " rigida bud
- ✓ " nemoralis bud
- ✓ " lanceolata bud
- ✓ Amphicarpa Petilan lf.

- 17 ✓ *Helianthus scaberrimus* fl.
 " *gracillimus* - lf
 ✓ *Helianthus scaberrimus* fl.
 20 ✓ *Veitchia stricta* fl
 25 ✓ *Petalostemum candidum* fl. & fr
 " *purpureum* fl. & fr
 ✓ *Zizia aurea* fr
 ✓ *Panicum virgatum* fr
 ✓ *Lolium spicatum* - fl & fr
 ✓ *Helenium autumnale* fl (low)
 " *Cirsium discolor* - fl
 ✓ *Erigeron canadensis* fl
 ✓ *Lithospermum canescens* lf
 30 ✓ *Clematidum leptophyllum* fl
 35 ✓ *Polygonum ramissimum* fl & fr
 " *convolvulus* - fl & fr
 ✓ *Oxycanthus floribundus* fl
 ✓ *Oenothera biennis* fl
 ✓ *Aquilegia vulgaris* - fl & fr (dead)
 ✓ *Rosa pratincola* fr
 ✓ *Thalictrum flavum* - old, dead
 ✓ *Anemone cylindrica* fr
 ✓ *Proteridion cristiculatum* fr
 40 ✓ *Corydalis palmata* fr
 ✓ *Prunella* - fr
 ✓ *Delphinium bicolor* fr - dead
 ✓ *Hieracium scariorum* lf

- ✓ *Aster laevis* lf
 45 ✓ *Scutellaria purpurea* fr
 ✓ *Stipa spartea* old fr
 ✓ *Lithospermum longifolium* fr
 ✓ *Pedicularis canadensis* lf
 ✓ *Phlox pilosa* - old fr
 50 ✓ *Ampelis communis* - fr & lf
 ✓ *Silphium laciniatum* fl
 ✓ *Andropogon furcatus* fl
 " " *scaberrimus* - lf
 ✓ *Panicum Scribnerianum*
 55 ✓ *Asclepias incarnata* fl (low)
 ✓ *Pyrola asarifolia* fl & fr
 ✓ *Thalictrum Michauxianum* fl (low)
 ✓ *Anemone pulchella* - lf
 ✓ *Lathyrus virginicus* - lf
 60 ✓ *Equisetum (hyemale?)* -
 ✓ *Physalis peruviana* fl. fr
 ✓ *Solidago canadensis* lf
 ✓ *Fragaria virginiana* lf
 ✓ *Prunella angustifolia* - old, dead
 65 ✓ *Ambrosia artemisiifolia* - fl
 " *psilostachya* fl
 ✓ *Solidago canadensis* - lf
 " *virginiana* - lf
 ✓ *Aristida baccata* - fl
 70 ✓ *Plantago aristata* - old, dead
 ✓ *Astragalus caryocarpus* - fr - old
 ✓ *Desmodium illinoense* - fr
 ✓ *Aster rugosus* - lf
 ✓ *Helianthus maximiliani* - lf
 75 ✓ *Comandra umbellata* lf

- ✓ *Sporobolus heterolepis* - fl
- ✓ *Zizania* - dead
- ✓ *Andropogon furcatus* - old dead
- 80 ✓ *Artemisia* - low
- ✓ *Asclepias verticillata* fl
- (bare old, dead *Rudbeckia hirta* - common)
took none.
- ✓ *Lycium alatum* fr (low)
- ✓ *Onocrotalaria* fr
- 85 ✓ *Muhlenbergia* fl
- ✓ *Liatris pectinata* fl
- ✓ *Solidago canadensis* fl (low)
- ✓ *Monarda mollis* - fr
- ✓ *Polemonium oxypetalum* fr
- 90 ✓ *Eupatorium* - stem
- ✓ *Achillea millefolium* - to fr
- ✓ *Chrysanthemum* - fr
- ✓ *Rhus glabra* - fl - low
- ✓ *Asclepias verticillata* fl
- 95 ✓ *Gnaphalium* - fr
- ✓ *Antennaria* - fl
- ✓ *Cirsium* - fl
- ✓ *Antennaria* - fr
- ✓ *Agrostis alba* fr
- 100 ✓ *Poa compressa* - fr
- ✓ *Conium maculatum* - fl
- ✓ *Carex* - fr (old)
- ✓ *Asclepias* - fr
- ✓ *Verbena* - fr
- 105 ✓ *Crotalaria* - fr

- 106 ✓ *Asclepias (mistle)* fl
- ✓ *Verbena* fr
- ✓ *Vitis vulpina* fl
- ✓ *Cirsium* - fl
- 110 ✓ *Achillea* - fr - low
- ✓ *Cirsium* - " "
- ✓ *Veronica* - " "
- ✓ *Penstemon* - fl
- ✓ *Eupatorium* - fl
- ✓ *Verbena* - fl
- ✓ *Polypogon* - low (low)
- ✓ *Calamagrostis* - fr (low)
- ✓ *Phragmites* (common) - fl low
- ✓ *Elymus* - fl
- 120 ✓ " " entire } by water
- ✓ *Elymus* - fr
- ✓ *Solidago* - fl
- ✓ *Physalis* - fl. introd.?
- ✓ *Polypogon* - low
- 125 ✓ *Lepidium* - fr
- ✓ *Gnaphalium* - fr

Returned at noon, lunched,
(late 19 min)
and at 1:42 took C. Ex. W.
train for Mason City.
Liatris pectinata - fl
along track, saw a *Polypogon*
in sand ballast, also *Salix longifolia*.
In the sand and gravel with
which the road is ballasted
are many weeds:

Euphorbia — Flat

Asteris viridis.

Ammannia helioides

Monarda ^{asteriflora} ~~viridis~~

Saw several Erigeron ramosus
still in flower, but bad.

~~Cerro Gordo Co.~~

At Swaledale, on C. & W., there
is a fine view of the
Wisconsin plain. Photo this!

Just before reaching Swaledale,
saw:

Prunella — in flower!

Lespedeza crotolaria — bad?

There is not much cutting
along the C. & W.

Fine prairie from Burchinal
to Clear Lake. Not cut.

went to Joe's cleaned up,
had supper, and left at
7:40 PM for ~~Calmar IA~~,
Athinson. No one was here at
Athinson, so went on to

Calmar.

At Calmar went to Miss
Mary Shema's restaurant,
and found there Mr. Proška,
a brother of Prof. B., and Mr.
Lukáš, a brother of our Lukáš,
who had come for me.

We drove to Protivin, by
way of Spillville.

Put up at the home of
E. J. Lukáš, our student's
father.

Aug. 10, 1919 - Sunday

Around after 8, had breakfast,
chatted with Lukáš, took walk
about town.

The whole community is
Bohemian — one German, with
Bohemian wife, who speaks Bohemian.
They have a nice church, with
Rev. Rudolph Lakomyj, a hall,
"Biseda", where our meeting was
held, and a parochial school.

They also have a small public school, like county school, but they had no school last year, for lack of pupils.

Met Mr. John Boushka, the oldest settler, - was here when folks came in 1854.

Mr. Lukes gave me the following information:

Proctorville has about 300 families of Czechs.

Saratoga has 100? families

Rev. Havlik charge of
Congregational Church
Thos. Kakač

Lourdes - 50 families

Cresco - 30 families

Dr. Jos. Jindrle

Vac. (J. J.) Sobolik) - am. wife

Jan Kakač

Little Turkey - 60 families

Ft. Atkinson - 1/2 Bohemian

Calmar - 1/3 Bohemian

Spillville - 200 families

Rev. Jan Boushka

Prof. Krivick, High School

(Decorah - Martin Soukup)

After the meeting Mr. Soblik of Cresco, drove Rev. Labovij, Dr. Jindrle and myself into country, to Mr. Valenta's nursery.

Collected some plants on Winneshiek co side of line.

In woods:

~~Pinus~~

~~Pratincola~~

Populus tremuloides

Prunus americana

White oak

(Gray oak? - out of edge)

Agrostis scrophulariiflora (fl.)

along road:

Lepachys pinnata fl.

Liatris scariosa fl. & br.

Parthenium integrifolium fl. fr.

Ampelopsis americana fr.

Cirsium discolor fl.

Andropogon furcatus fl.

Lactuca pycnostachya fr. & fl.
Petalostemum purpureum, fr.
Baptisia leucophylla - 26
Sorghastrum nutans fl
Solidago canadensis fl
 " *serotina* fl
Aster multiflorus bud
Abutilon ? fl
Helianthus scaberrimus fl
Elymus canadensis fr
Lactuca (^{*ludoviana*} *pyramidalis*) fr
Panicum gracillimum fl
Eriogonum caninum - also fl
Silphium laciniatum fl
Aquilegia canadensis - fr. - 1 fl.
Eryngium yuccifolium fr
Polygonum sanguinale fl.
Thalictrum purpuraceum fr.
Solidago canadensis fl

Returned, had supper at
 Luke's and young Mrs. & Mrs.
 (Mrs. was from Belle Plaine)
 young Luke & the father drove
 to Lawler.

Aug. 10, 1919, Sun.

The whole region is gently
 rolling, - a typical Iowa plain,
 it looks like fine farming
 country.

At Little Ledges we passed
 through Moberly village, - church,
 etc. In this section a strip
 2 miles wide was devastated by
 a cyclone in May of this year.
 Buildings were swept away &
 trees destroyed. Some of the
 groves were riddled, - burrachs
 snapped & twisted off, etc.

There is little native flora
 along the road as the roads
 are worked almost to edge.

Reached Lawler at 8 & walked
 along RR to East, across the
 creek. This is a piece of low
 prairie, now cut by little side
 ditches. In drained places the
 flora is true prairie, but in
 lower places mingled with low
 ground plants, such as:

- ✓ *Lycopus simulacris* fl
- ✓ *Scirpus cyperinus* fr
- ✓ *Spartina Michauxiana* fl
- ✓ *Helianthus autumnalis* bud & fl.
 (*Sagittaria latifolia* - in fl. - took none)
Cicuta maculata fr.

- ✓ *Sium* *contortum* fr
- ✓ *Spiraea* *salicifolia* (see next page)
- ✓ *Calamagrostis* *canadensis* fr
- ✓ *Phlox* *maculata* fr

I collected most of these, and also the following prairie plants:

- ✓ *Lepachys* *pinnata* fl.
- ✓ *Rudbeckia* *submontana* fl.
- ✓ *Helianthus* *scaberrimus* fl.
- ✓ *Fragaria* *virginiana* fl.
- ✓ *Oenothera* *biennis* fl.
- ✓ *Sorghastrum* *nuttanum* fl.
- ✓ *Andropogon* *scoparius* fl.
- ✓ *Hemlock* *hispida* - old fr.
- ✓ *Scrophularia* *leporella* fr.
- ✓ *Desmodium* *canadense* fr.
- ✓ *Aster* *multiflorus* bud.
- ✓ " *laevis* bud.
- ✓ *Salix* *humilis* fl.
- ✓ *Helianthus* *scaberrimus* - fl.
- ✓ *Elymus* *canadensis* fr.
- ✓ *Thalictrum* *dasycarpum* fr.
- ✓ *Eryngium* *yuccifolium* fr.
- ✓ *Lactuca* — fr.
- ✓ *Liatris* *spicata* fl. + fr. (?)
- ✓ *Carex* *pedunculata* fl. + fr.
- ✓ *Arenaria* *canadensis* fr.
- (*Helianthus* *grossus* fl. + fr. (noted))
- ✓ *Parthenium* *integerrimum* fr.
- ✓ *Cirsium* *discolor* fl.

- ✓ *Galium* *boerhaavei* fr
- ✓ *Solidago* *rigida* bud
- ✓ " *graminifolia* bud
- ✓ " *renouardii* bud
- (" *canadensis* fl. no spec.)
- ✓ *Syringa* *amurensis* fr
- ✓ *Panicum* *virgatum* fl.!
- (*Rosa* *pratincola* in fr. - took none)
- ✓ *Pycnanthemum* *flexuosum* fl. + fr.
- ✓ *Agropyron* *tenuis* fr. + fr. (see gen. list)
- ✓ *Uromyces* *mollis* fl. + fr.
- ✓ *Achillea* *millefolium* old fr.
- ✓ *Allium* *canadense* (old fr.)
- ✓ *Veronica* *virginica* - fr.
- ✓ *Amorpha* *canescens* fr.
- ✓ *Hypericum* — fr.

Lower ground (see preceding page)

- ✓ *Rudbeckia* *laciniata* fl.
- (*Polypogon* *monspeliensis* fl. took none)
- ✓ *Lathyrus* *palustris* fl.
- ✓ *Eupatorium* *perfoliatum* fl.
- ✓ *Salix* *lucida* fl.
- ✓ *Veronica* *fasciculata* fl.
- ✓ *Carex* — fr.

- ✓ *Trifolium* *repens* - old fr.
- ✓ *Lespedeza* *capitata* fl.
- ✓ *Panicum* *scribnerianum* old fr.
- ✓ *Casahuate* *tuberosa* fl. + fr.
- ✓ *Artemisia* *ludoviciana* fl.
- ✓ *Rumex* *altissimus* fr.
- ✓ *Euphorbia* *collata* fl.
- (" *Preslii* fl. no spec.)
- ✓ *Cyperus* *arvensis* sterile no spec.
- ✓ *Asclepias* *syriaca* fl. (took none)
- ✓ *Rudbeckia* *hirta* - fr.

Aug. 14, 1919 - Monday,
Arose at 4 am. & went to
depot. Train was 45 min.
late. 4:51 + 45.

Reached Mason City at 7¹⁵ am.
Went up town, had breakfast,
packed plants, & then went
to Big Slough.

Collected first in the woods.
There is a striking lack of flowers
in the woods. Some at lower.

The prairie openings along the bluff
seem to be very dry. I collected
some plants on the SW. side
of the Slough from these
openings. Also just a few on
the NE. side.

Spent most of the time in
working in the Slough.
Found scattered flowers, willows
(some in fr.)

Also detected a few shells,
among them about 30 of my
small *Pisidium*. Also found a
few *Pomatopis lubricans* under
boards near the rocky

spring (now dry) on the SW. side,
they were not in water!

Left at 7⁴⁰ + 30 PM. in
Nova Jr. & West Liberty, and
reached home before 5 am.

Winterset, St. Charles, University

Aug. 13th, 1919 - Wed.

Left at 12:15 am, (25 min. late) for Des Moines, & Winterset.

Account.

Aug. 13 - Ticket to Winterset	\$ 5.32
Lower berth	1.62
Breakfast at Des Moines	.40
Aug. 14 - Hotel (Arcade) Winterset	
Dinner	.75
Room	1.00
Breakfast	.60
RR, St. Charles to Des Moines	.94
Scott Hotel	1.75
Aug. 15 - Breakfast - RR, rest, University	.40
RR (Walsh) to Udell	2.86
Dinner - Restaurant - Udell	.25
RR to University	.11
Hotel - use of room University	.25
Taxi - Udell to Centerville	2.50
Aug. 16 - RR, Centerville to Iowa City	4.55
Taxi - Iowa City	.50
	\$24.20
	74

\$ 23.30

4.12
16.00
1.50
13.50
4.50

Left Des Moines at 6:15 am. It had rained hard at night and things look bright.

Patterson to Winterset

Veronica noveboracensis fl. very com.
Rudbeckia laciniata fl. - low places
Rhus glabra lf. fr. very com.
Helianthus - fl. (broader lvs not tuberosa)
Achillea millefolium fl. very com.
Cirsium discolor fl. " "
Oenothera biennis fl.
Sesuvium canadense fl.
Alphium integrifolium fl. com.
Laciniata lf. & fr.
Euphorbia corollata fl. com.
Elymus canadensis fr. very com.
Solidago rigida bud. com.
Piptadenia searsonii bud.
Erigeron canadensis fl.
Solidago canadensis bud.
Cirsium discolor fl.
Monarda mollis fl.
Lepachys pinnata fl.
Ambrosia trifida fl. low places
Artemisia arbuscula fl. fl.
Helianthus - fr.
Quercus macrocarpa - small.
Lactuca - tall.
Lepachys capitata bud.
Rhus glabra lf.

Asclepias verticillata fl
Helianthus grosseserratus fl
Aster multiflorus var. ^{And.}
Lactuca scariola fl
Liatris spicata fl (lower)
Eryngium yuccifolium fl
Verbena hastata fl
Kuhnia repens fl
Raphanus emulsum fl
Symphoricarpos - red - fl
Asparagus ^{canadensis} fl
Asclepias speciosa fl
Rhus typhina fl
Mullein alba fl
Rudbeckia hirta fl

Reached Winteret after 8 am
& sent my baggage to the
Arcade Hotel (S. G. Dunn, prop.)
and called on Senator Ed. Smith,
A. G. Goshorn was not in.

Went to hotel and arranged
address. Got shave, dressed, &
after dinner delivered my
address at the Chautauque (at
2:20 PM) on "The Czechoslovak

Republic, a Child of America),
after the meeting I changed
clothes & Sen. Smith, Mr. Goshorn
and I were taken to the Backbone
by Mr. Lenoche (a brother of
our F. E.). We looked over
the ground, plotted what
seems drivable for pack
purposes (about 320 A.).

There were many P.O. alder
& oak cuping about.

I collected plants in the
woods, on the prairie top
of the Backbone, and also
a few along the very base of
the slope, on the edge of the
bottomland.

(See plants collected.)
We returned late and I
went to Sen. Smith's house
for supper, after which we
chatted until after 11 PM.

Mr. Nimmoke (of ^{or Dehloom?} Ottumwa?)
came in to talk for Deems
for governor.

Thursday, Aug. 14, 1919

Rev. Allen of the Methodist
church of St. Charles, came for
me with a Ford. I had packed.
When 4 miles out I recalled that
I had left my shirt, collar,
tie & cuff buttons at hotel, & we
returned.

Reached St. Charles a little
before 12, went to Johnston's
bank to see H. J. Mueller.
He drove me about & then we
had dinner at his house.

We then took a little run
north, into country, returned,
and I delivered address to
Old Settlers. Talked nearly hour.

Synopsis

Pleasure at coming!

Friends

Old & new generations,

Experiences & suffering of old settlers,
Had to earn living.

Later first up bars, etc. &

Earthy homes.

Worth while, to hold young

Now recreation & play

Cities - 20 years ago - few parks

- later many.

I came to talk state park.

Recreation

Stream conservation

Bird shelter

Native plants.

The Backbone -

Farmers as well as cities
should have parks.

After address I loafed about.

Hear Congress Dowell, Mr.

Sick of State Sups office, &
State Sup. McClellan. Other

minor members.

Later Mueller drove out
into country W. & S. Everywhere

this is a high plateau, cut
by valleys & ravines - evidently
a deeply eroded plain.
There are fine views in almost
all directions.

Had supper & then went
N. a mile or less & I collected
prairie plants & also some
from woods, etc.

(See specimens)

went back to Muller's
house, visited awhile &
then took C&O. for Des Moines
at 10 PM.

(Muller has wife, 2 boys and
a girl.)

Left at 10 PM. for Des Moines,
arrived at 11¹⁰. Put up at
Excelsior Hotel.

Friday, Aug. 15, 1919

Left Des Moines via LaSalle
for Uddell at 6⁴⁵, 30 min.
late

all along RR. Vernonia noveboracensis
is common & is a very bad, persistent,
pasture weed.

Marion Co.

Uddell

<u>Vernonia noveboracensis</u>	fl - scattered
<u>Tripsacis danielsii</u>	fl - in groups & scattered
<u>Rudbeckia subtomentosa</u>	fl - few
<u>Cassia chamaecrista</u>	fl very com. in patches
<u>Plym. virginica</u>	fl " " "
<u>Santonia</u>	fl scattered all along
<u>Asclepias verticillata</u>	fl very common in patches
<u>Euphorbia corollata</u>	fl less " " "
<u>Helianthus scaberrimus</u>	fl scattered, small
<u>Cnicus altissimus</u>	fl few
<u>Liatris pycnostachya</u>	fl. one or two groups
<u>Gaura bicolor</u>	fl. few
<u>Desmodium canadense</u>	fl & fr. several groups
<u>Sparganium angustifolium</u>	fl? few groups
<u>Gizya aurea</u>	fl few
<u>Artemisia mollis</u>	fl var. Dist. Patches
<u>Helianthus grosseserratus</u>	fl. much
<u>Erigeron annuus</u>	fl. com
<u>Asclepias syriaca</u>	fl scattered

Oenothera biennis fl. scattered
Convolvulus virginicus fl. com. in patches
Melilotus alba fr. - com. - patches
Solidago nemoralis fr. 1 by low.
Rubus sp. var. fl. scattered, in bunches
Solidago rigida bud. scattered
Aster - fr. 1.
Lactuca scariola fr. beds.
Aster - green - fl. scattered.

These prairie strips are interrupted
 by patches of weeds, & mixed
 stuff. Occasionally there seems
 to be a strip of good clean
 prairie. I noticed no *Cirsium*
 until after we passed Albia
Cirsium discolor bud. 1
Aster - fr. 1 bud.

Albia to Moravia - mostly prairie.

+ *Asclepias verticillata* fl.
 + *Verbena novboracensis* fl. very few.
 + *Lactuca* - tall fr.
 + *Cassia chamaecrista* fl.
 + *Aster multiflorus* bud.
 + *Ambrosia artemisiifolia* fl.

+ *Euphorbia corollata* fl.
 + *Monarda mollis* fl.
 + *Oenothera biennis* fl.
 + *Desmodium canadense* fl.
 + *Asclepias syriaca* fl.
 + *Erigeron ramosus* fl. old
Helianthus scaberrimus bud.
 + *Silphium laciniatum* fl.
 + *Solidago rigida* bud.
 + *Sium* - fr. fl.
 + *Cirsium discolor* fl.
 + *Glycyrrhiza canadensis* fr.
 + *Verbena hastata* fl.
 + *Convolvulus sepium* fl.
 + *Helianthus grosseserratus* fl.
 + *Solidago nemoralis* fl.
 + *Liatris pycnostachya* fl.
 + *Liatris scariosa* bud.
 + *Agrostis alba* fr.
 + *Gaura bicolor* fl.
 + *Lepachys pinnata* fl.
 + *Ambrosia pumila* fl. - few
 + *Achillea* - old
 + *Aster multiflorus* bud.
 + *Solidago canadensis* bud.
 + *Silphium integrifolium* fl.
 + *Melilotus alba* fr. & fl.

(Aug. 15, 1919)

Morrice & Udell - Prairie

Flora made + in preceding, & the following:

- Lactuca scariola* fl
- Cirsium discolor* fr
- Potentilla arguta* fr
- Salix humilis* lf
- Aporosa* - green - lf
- Parthenocissus* in by. - fr
- Physalis pruinosa* - lf? (air?) few
- Lepidoglosson* caeruleum
- Solidago nemoralis* lf
- Veronica basiphila* (?) fl.
- Urtica vulpina* lf

Reached Udell about 10 AM.
 Had stuff hauled over to CRD & P
 depot, packed press of plants &
 sent it by parcel post. Then
 called at bank & met Mrs. Taylor.
 Miss Mary was at home.

Bought ticket for Unionville,
 checked my suitcase & bag & walked
 to Unionville.

Along RR everything is cut
 except under fences, but I

gathered quite a lot of
 prairie plants.
 Turned up road, went past the
 cemetery. Much of this is now
 cleared, but I picked up a
 number of prairie things,
 (see specimens)

Came, got baggage, went
 to restaurant (not the old
 Vermilion Hotel), bathed
 & dressed.

Went to Duke's for supper,
 and then to hall. It
 rained most of the evening, &
 few were out, - 15 members and
 2 candidates.

I did work & initiated
 - Taylor (Mary's brother) and
 - Powell, both of Udell.
 I also talked: officers;
 obligation; Cumberland Gap;
 local.

Drove to Udell (house) with
 Taylor & Powell, and from
 Udell to Centerville by

trape, to make 1:20 AM train,
Made it safely, went to
Columbus Jc., went safely &
home.

Mille Plaine & Outing - 1919

Aug, 16 - RR. to Cedar Rapids \$.86
RR. to Mille Plaine 1.12
RR. Cedar Rapids to Lohrley 1.19
" W. Lohrley to Inverly .51

.86
1.12
1.19
.51

3.68

Mille Plaine & Outing

Aug, 16 - 1919 - Saturday

Left Iowa City at 3:10 for
Cedar Rapids & Mille Plaine.

Reached Mille Plaine
after 6 PM, & went to
Durspiv's house, had supper,
& went to Opera House, where I
spoke in English & Norwegian
to a small audience. Spoke
on technical relief work.

Met Mrs. Morsat & "Monkey"
(Edwyn) Morsat & his young bride.
collected \$31.00 (\$10.00 from
C.S.P.S.) & went to

Eastern Star meeting. Met
Mrs. Kaley, Mr. Hanson, W. P.
Mrs. ——— W. M., Mrs. Morsat,
Mrs. J. Galesky (German) & others.

Spoke on ritual & obligation.
Used Cumberland Gap story.
Went to Martin Benda's
house & spent night.

Aug. 17, 1919 Sunday

Drove to Clute with
Mr. + Mrs. Munda & their
nephew (Munda) of Dubuque, —
after 10 am. Reached
Kubalek's about noon, had
dinner, visited most of afternoon.
Kubalek took us for a drive,
first N. W. & then S. W.
from Clute.

N. W. I observed following
along road, — prairie:

Potentilla arguta fr.

Helianthus scaberrimus, fl & bud

Brassica ^{pauciflora} ~~argyrifolia~~ fr.

Euphorbia corollata fl.

Cirsium discolor fl. & bud

Vitis vulpina lf.

Lepachys pinnata fl.

Asclepias syriaca lf.

Oenothera biennis? fl & bud

Lactuca - tall - fr.

Lespedeza capitata fr(?)

Kuhnia eupatoroides v. angustifolia fl.

Glycyrrhiza canadensis fr.

Silphium integrifolium fl.

Erigeron ramosus old fl.

Pycnanthemum flexuosum fl. & fr.

Rosa pratincola 1 fl. fr.

Ambrosia trifida fl - low

" artemisiifolia fl.

Solidago canadensis bud.

Hordeum jubatum fr.

Helianthus grosseserratus bud, ^{rather low}

Andropogon furcatus fl.

Aster laevis bud

Solidago graminifolia - fl. & bud

Verbena hastata fl, mostly low

Cuculia tuberosa fl. & fr.

Sium cicutaefolium fl. - low

Convolvulus sepium fl.

Aster multiflorus bud

Apocynum ^{canadense} ~~green~~ lf.

Artemisia ludoviciana fl.

Achillea millefolium fr.

Lactuca scariola - lobed - fr.

Heterium autumnale - fl. - low.

Eryngium yuccifolium fr.

Solidago missouriensis fl.

Erigeron canadensis fl.
Polygonum pennsylvanicum fl.
Spartina Michauxiana fl.
Pastinaca sativa - old fr.
Monarda mollis fr.
Echinocloa crus-galli - large-fl.
Scirpus atrovirens fr. low ground low.

Prairie	31	35
Low ground	7	7
Weeds	6	2

S. W. I saw, along road:

Rudbeckia laciniata fl. low.
Helopsis scabra fl.
Desmodium canadense fl.
Rhus glabra lf.
Corylus americana lf.
Casnia chamaecrista fl.
Salix humilis lf.
Anemone cylindrica fr.
Solidago rigida bud.
Salix longifolia lf. - low
Silphium perfoliatum - fl. - low
Ampelis canescens fr.
Poa compressa fr.
Silphium laciniatum fl.
Prunus pennsylvanica - lf.

The region N.W. is rather gently rolling, and that to S.W. is a little rougher beyond Salt creek bottom.

Returned, had supper at Kubalek's, and spoke in hall to good audience on Czechoslovak relief.

Kubalek drove me to Cedar Rapids, just caught RR 9 P. for West Liberty.

At W. Liberty from 2 am to 4:08 am.

Then to Iowa City

35
7
2

Unionville, Ia. - Aug. 20, 1919

Left at 2¹² am. (1.52 train) for
West Liberty,

Taxi - Iowa City \$.50

R.R. to Unionville 4.15

\$ 4.65

(Then Davenport - 6.25 6.75

Taxi .50

\$ 6.75

Breakfast - Columbus Jc. .40

- .40

\$ 12.10

Left W. Liberty at 5:15 am
& waited at Columbus Jc.
until 8²⁰ am,

Reached Unionville

at 11⁵⁰ am.

Dr. Case came to meet us
also saw Dr. Patterson & Rev.
Kragbill.

The region about Floris + Belknap
is a great plain cut by ravines,
real Kansan topography.

We been here? - I think none!
Same plain, - Oakville, Paris,
Unionville, Idell.

N. of Unionville, in Soap cr.
country, badly broken.

E. + S.E. of Paris there is a
broken valley - creek.

Collected *stunifolia* &

Eleocharis in pond at present
ground N. of restaurant.

Also saw a lot of *Boletus*
in oak woods. a few other

fungi (see spec.)

Falcher & soldiers -

bring & carry

lessons

future - it is

Left at 3⁴⁵ (3:23⁴) for Davenport
& Iowa City -

Just across the river from
Columbus Jc. is a good
place. Saw *Helianthus*
occidentalis & other likely
plants.

At Franklin the following were
noted:

Helianthus ~~occidentalis~~! fl. fine

Euphorbia corollata fl. very com.

Aralis verticillata fl. pale

Koeleria cristata fl. - leaflets

Solidago nemoralis com.

Verbena stricta fl. - pasture

Artemisia ludoviciana fl. -

etc.

To Mr. Gregg -

Aug. 15, 1920 - Sun.

Left in the evening, at 8, for Cedar
Rapids and stopped at Annapolis.

Aug. 16, 1920 - Mon.

Left Cedar Rapids at 6 A.M. for
McGregor via the C. W. & N. P. Ry.

McGregor via the "black oak", and
a good many saw "black oaks", and
a large meadow with an enormous
number of *Eupatorium purpureum* - are
found well out from Monticello
towards Hopkinton.

Another meadow, near Hopkinton,
has a large number of *Eup. perfoliatum*.

In a "dry pond" near the station (east
of it) at 74, Atkinson there is a lot

of acorns *calamus*.
I reached Calmar at 11²⁰ AM & left
at 12:15 PM. Telegraphed to Bennett - come at 2²⁵ PM.

My ankle hurts!

Reached Mr. Gregg at 2⁴⁰ PM.
& was at once taken up on
hill, met Dr. Clark, etc.

My ankle was pretty sore,
and I am worried a little

Aug. 17, 1920, Tues

Still limped, and suffered some.
Spent forenoon about the cottage
on the Heights, arranging talk, etc.

In the afternoon spoke on the
"Importance of Wild Life Conservation
to the Am. Univ. & Colleges."

I followed Dr. N. C. Oberholser of
Washington.

In the evening instead of the
community supper program we
had a teacher picnic supper (Pammel
& I were guests of Mr. & Mrs. Bell).

At 8 pm. there was a Trust
program, with talks by Oberholser,
Kay, Bliggard, Bell, Miss Chapin,
Bell, & Gedde, who presided.

Aug. 18, 1920 Wed

I spent the forenoon about the
cottage and at the meeting.

In the afternoon we were taken
by auto, to Pih's Peak and walked
down. A large party went, but I
had to lag behind. About 5 of
the botanists stuck with me.

I collected plants on the
prairie, and also on the way
down the gorge to Pictured Rock, &
along RR.

See the nets.

Was quite lame.

I also collected a net in the hollow
woods near Pih's Peak.

In the evening we had a nice
steamboat ride on the Mississippi.
I had quite a visit with Dr.
Oberholser.

Came in after 10 pm & went
to bed.

Aug. 19, 1920 - Thursday

Arose at 4³⁰ and arranged plants in grass for shipping.

I then went down to the Zimmerman Hotel and had breakfast.

We started out (3 cars) at about 8³⁰ for Prairie du Chien via Ferry, and then up the Wisconsin river as far as Muscodā.

The current in river is quite rapid, and there are not a few sand bars. It is quite a wide stream. The hills on both sides rise very high.

We went out on river road & this is sandy much of the way.

Monarda punctata is very common locally in sandy places. Otherwise in open places the flora is mostly that of prairie.

In lower places there are a good many low-ground species. About 12 mi. E. of Wausau there is a fine lot of *Lobelia cardinalis*. Collected that & other plants, (see notes)

The bridges across the Wisconsin seem to be toll bridges. We crossed at Muscodā, and had dinner at the hotel. The sand-dunes are right W. of town and on a terrace (E.).

The dunes have a good many Jack Pines, & also a variety of plants - many of the prairie type. Among new plants I found *Hudsonia*. Sand dunes are very abundant. A heath with red berries was collected on dunes.

(see plants.)

We returned to Wausau (20 miles from Prairie du Chien) & then took the upland road. I went out with car of Carl Pichel, but on way back changed to Capt. Will's

Pichel's car. In this latter run ~~Martin~~ ^{Dr. Oberholser} Clark, ~~Miss McCormick~~ ^{of Chicago} & J. In Carl's car, Miss Clark, Mrs. Pichel & Miss McCormick of Chicago.

There is a group of Jack Pines less than 20 mi. from Prairie du Chien at a soldier's grave. Native *Retzgeria* & talked in evening on plant-distribution (illustrated)

Aug, 20, 1920 - Friday

~~It rained very heavily at night & everything was soggy.~~

Collected a little material for class. In the forenoon I talked on pollination and seed-dispersal,

In the afternoon I took the group out for fieldwork. Noticed trees on Wehner Heights, & went to prairie opening on high part of ridge, ^(N. of St. Peter S.S.) along road to the Lookout. This follows base of ridge which looks to southwest, & is here well exposed as there is a deep & quite broad valley to the south,

We discerned this prairie, and I also collected following plants in this prairie opening:

- ✓ Helianthus tuberosus?
- ✓ Sickle-pod. - *Arabis canadensis*
- ✓ *Helipopsis scabra*
- ✓ *Vitis vulpina*
- ✓ *Lithospermum canadense*
- ✓ *Q. muhlenbergii*
- ✓ *Q. macrocarpa* } at margin
- ✓ *Andropogon scoparius*
- ✓ " " *furcatus*
- ✓ *Sorghastrum nutans*
- ✓ *Eupatorium altissimum*?
- ✓ *Solidago nemoralis*

- ✓ *Petalostemum purpureum*
- ✓ *Lepachys pinnata*
- ✓ *Bouteloua curtipendula*
- ✓ *Aster oblongifolius*
- ✓ *Viola* (*papilionacea*?)
- ✓ *Galium boreale*
- ✓ *Euphorbia corollata*
- ✓ *Melilotus alba*
- ✓ *Rosa* -
- ✓ *Agrostis cetera* var.
- ✓ *Comandra umbellata*
- ✓ *Allyl pilosa*
- ✓ *Gerardia aspera*
- ✓ *Lepedeza capitata*
- ✓ *Pycnanthemum* -
- ✓ *Lactuca canadensis*
- ✓ *Parthenium virginicum*
- ✓ *Desmodium canadense*?
- ✓ *Asteriscus ciliatum*
- ✓ *Asclepias verticillata*
- ✓ " " *cyriaca*?
- ✓ *Rhus glabra*
- ✓ *Physalis pubescens* var.
- ✓ *Elymus canadensis*
- ✓ *Liatris scariosa*
- ✓ *Asparagus* -
- ✓ *Eriogonum ramosum*
- ✓ *Ambrosia artemisiifolia*
- ✓ *Veronica virginica*
- ✓ *Asplenium androsaceum*

✓ *Hieracium canalem.*
Sisymbrium canescens - fr. (lost?)
added Aug. 21

Rained again in afternoon, but we were in. Wanted to go to Keils, but could not. In the evening - very rainy but some 40 were present.

I talked on bark & branching of trees, types of trees - oaks, etc. (illust.)

Aug. 21st 1920 - Sat.

The very heavy rain left everything soggy, but I went into the woods on the Heights and collected timber plants early.

At 10 we had the general meeting.

I sent out packages of plants. In the afternoon I went out along ridge to Lookout & worked up and down the sides of the ridge and on top.

Found many interesting plants, among them *Phlegopteris polypodioides*, two different species of *Desmodium* in addition to *D. grandiflorum*.

I also worked in the openings at Lookout, at the point overlooking No. McGinn, and at the opening on the way to Lookout.

The additions to the list of plants at the latter point are given two pages back.

The point overlooking No. McGinn has more *Andropogon furcatus* than anything else, and at the ^{ridge} point ^{on} way to Lookout *Andropogon scoparium* and *Bouteloua curtipendula* are most common, while *A. furcatus* and *Sorghastrum nutans* are quite abundant.

Blackberries are quite abundant on west slope of ridge, somewhat below top.

I walked down to the hotel and visited with Dr. Oberholser and Mr. Bennett. Later Capt. Willis Bickel took me to No. McGinn and I put up at the Perry Hotel.

Aug. 22, 1920 - Fern, ^{Caroline}
Capt Bickel, Miss Mortner and Dr. Oberholser called for me a little before 8 am. & we drove up the yellow river through Canton Twp., Volney, past the old mill to the Balsam Fir grove.

Here we stopped over two hours and I collected a lot of plants, among them *Phacopteris Robertsonii*, a *Rubus* with 5 leaflets (pinnate) *Juncus* in fr., *Balsam*, *White Birch*, a fine *Cornus*, ^{also} *C. alternifolia*, *Quercus struthocarpa*, etc.

Also picked up a few dead shells:
Polygona albolabris
" *profunda*
" *clausa*
Pyramidula alternata
Also a few fungi

We then drove on towards Decatur, on upland.

About 2 mi. from the W. line of Allamakee co., as we were ascending the hill, I found a group of

Melilotus occidentalis.
We drove to Decatur, went to
the fine big Dunning's spring just
above foot-bridge, & went up on top of
my prairie ridge opposite foot-bridge.
This has been ^{much} reduced by pasture &
cultivation, but I found a few plants.
I walked to bridge, met the party, &
we drove through "cut way" to City
Park. Then back by way of
Calmar, Osian, Catalina, Postville,
Luana, Monona, Froelich, Grand (old, not
on RR). We stopped at Niels' quite
a while and then drove to McGregor,
& Capt. Pichel took me to No. McGregor.
I arranged a little material &
then went to bed.

A beautiful day! Clear, cool,
& a good time all around!

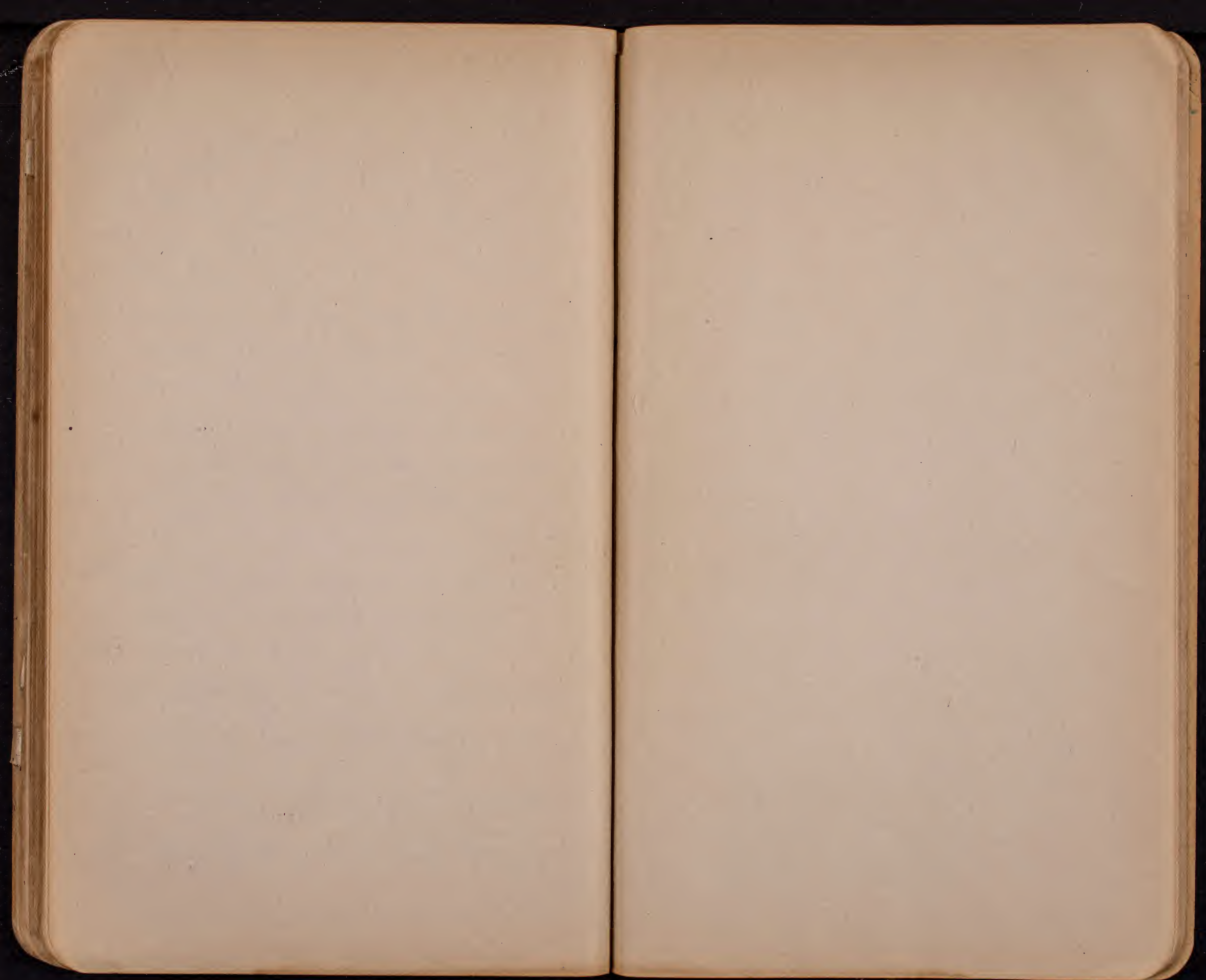
Aug. 23, 1920 - Mon.

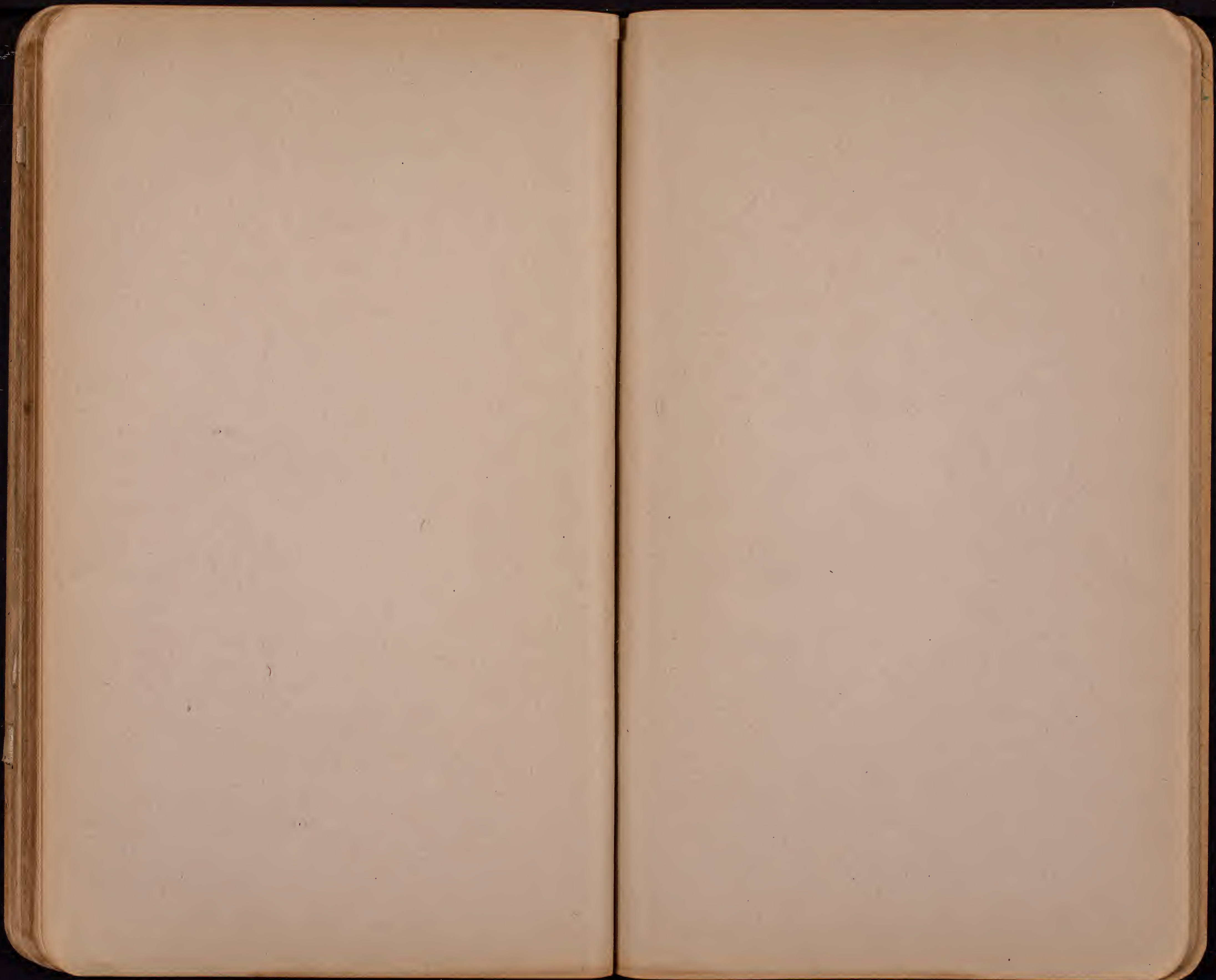
The morning was very foggy
after a cold night.

I arranged fungi, etc., also
plants, and went north on
ridge.

Aug. 24, 1920

Left for Cedar Rapids & home





Trees and Sod!

Trees -

To most people a tree is a tree.

1. Must know kinds -

+ 2

Trim quite high
Streets

In front of large buildings

Am. Elm, " residences,
Moderate high

+ 1

Hard Maple

Green ash

Basswood

+ 2

Low, bushy

To hide fences, etc.

For background

Under wires

Crab

Plum

June berry

Red bud

Hawthorn

2. Must know habits, - N. + S. of state

Black Birch

White Oak

Hard Maple.

3. Uses - emphasis.

Flowers - lime

Plum, June berry

Red-bud

Crab + Hawthorn

Black locust

Foliage - fresh

Fruit - fall

Fruit
nuts, fleshy fruit - Edible
showy Hawthorn

+ 1

4. Use native trees

Eu. Larch

Norway Maple

+ 2

5. Transplant small trees

Day climate - not New York or Europe

Roots + top - Calaveria -

spring or fall?

Trim crown -

+ 2

6. Care -

Trimming - decay -

Water

Mulch

Purposes

+ 2

Streets

+ 2

Parks

Cemeteries

+ 1

Public buildings

+ 1

Residences

+ 2

Wind breaks

9 plants

Highways

Pleasant Hill
 Kudler Gas
 Kaddets, F.V.
 Maska, F.E.
 Malin, F.V.

Timberlots

Margnette
 E. Tesar

McGregor, Ia - (1920)

Logan Blizgard

Fred G. Bell
 Karl D. Bickel
 W. F. Bickel
 W. N. C. Elwell
 M. J. Geske

To Mr. Gregor

Aug. 15, 1920 - ~~Telegram to McGregor~~ - \$ 1.35
 To Cedar Rapids .86
 Aug. 16, - RR. to Mr. Gregor 5.45
 Dinner at Calmar ^{Telegram} .50
 Aug. 17 - Breakfast ⁶⁵ .65
 Aug. 18 - Breakfast ⁶⁵ .65
 Aug. 19 - Breakfast (Hotel Zim.) .50
 Parcels-post - - - - - .50
 Dinner - Hotel at Muscodā - - .75
 Aug. 20 - Breakfast .65 - - - - - .65

\$.35	.60
.86	.65
5.45	.50
<hr/> 6.66	.65
6.31	<hr/> 2.40
<hr/> 12.97	.65
3.05	<hr/> 3.05
<hr/> \$ 16.02	

Aug. 21 - Supper - no. McGregor .75
 Aug. 22 - Breakfast ⁶⁰, Supper ⁶⁰ 1.20
 Candy for kids 1.00
 Supper - - - - -
 Aug. 23 - Breakfast & Lunch .45
 Supper - - - - - .25
 Room - 3 days 3.75
 Aug. 24 - RR. to Cedar Rapids 5.41

Il-lus'trate
In-quir-y (iri-kwiri by speakers)
maintain { mān-tan
 { mēn-tan.
Je'sa-min.

575

12 mi. E. of Waseca

To Clara Mts. from
Marathon.

Jacobinia - vesta



PLAT

SHOWING LOCATION OF PROPERTY IN QUESTION.

Vickburg

SECTION _____ TOWNSHIP _____ RANGE _____



(cut 1)

*Wash
grove
pasture
road
cut 2
cut 3
cut 4
cut 5*

*Washington
mulberry
pear
leaves.*

8 feet

*Fossilif. exposures
cut 4 - top to bottom
" 5 -*

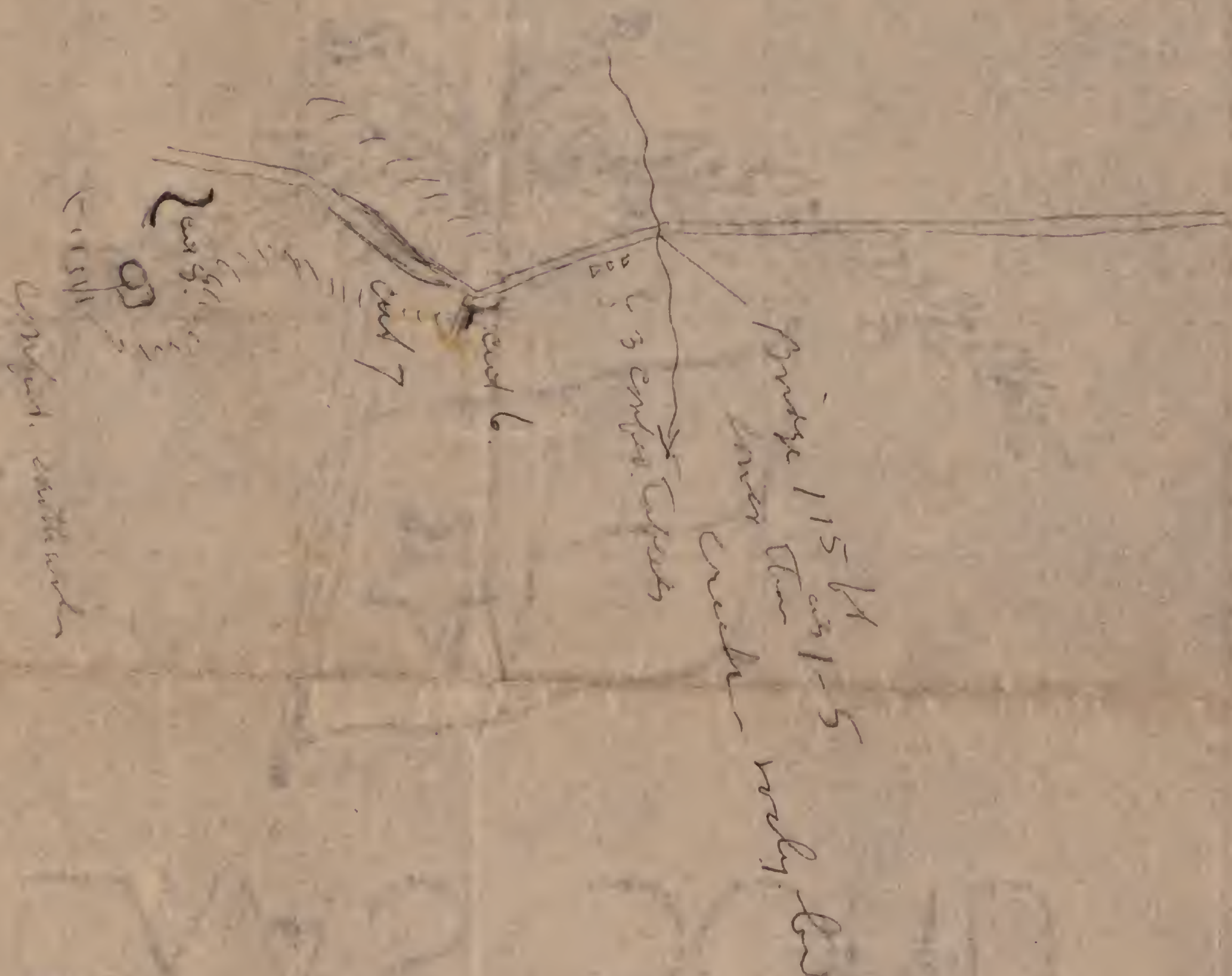
PLAT

SHOWING LOCATION OF PROPERTY IN QUESTION.

RANGE

TOWNSHIP

SECTION



Hel. luteum
 Sickle-pod.
 Helipin rubrum
 Vitis vulpina
 Lithospermum
 Q. Muhlenbergii
 Andropogon scoparius
 " frumentum
 Sorghastrum nutans
 Eupatorium album
 Solidago nemoralis
 Petalostem purpureum
 Lepachys pumila
 Pontederia cordata
 Aster oblongifolius?
 Viola (pubul.?)
 Q. macrocarpa
 Galium lucidum
 Euphorbia corollata
 Melilotus alba
 Rosa —
 Agrimonium album v?
 Comandra umbellata
 Phlox pilosa
 Gerardia arborea
 Leptochloa capitata
 Pyrenanthus —
 Lactuca canadensis
 Panicum virgatum

Desmodium canadense?
 Steironema alba!
 Asclepias verticillata
 " syriaca?
 Rhus glabra
 Physalis pubescens
 Elymus canadensis
 37
 Liatris scariosa
 Siphocampylus —
 Erigeron annuus
 Ambrosia artemisiifolia
 Veronica virginica
 Apocynum androsaemifolium
 Hecerraria —
 (Equisetum canadense)
 (C. flor.)

Coreopsis palmata
 Amorpha canescens
 Asclepias tuberosa