Clarkson, Logan, Turin,
Okoboji — 1909 Adams.

(214. June, 1908).

Mo. Valley Iowa

Office, State of, 8/26 1909

M. B. Shumway

To AMERICAN EXPRESS COMPANY, Dr.,

		$	Cts.
For Transportation of	3 Boxes	Our Charges,	80
From	Spencer Iowa, State of	Advanced Charges,	40
		Duties,	
Shipped by	Owner	Amount of C. O. D.	
Date of Shipment	8/21 Weight 37 lbs.	Total, $	120

Received Payment for the Company,

F. A. Sulsbury Agt

(OVER.)

(214, June, 1908).

Mo Valley, Iowa

Office, State of _____, 8/26 19

M. R. Shumway

To AMERICAN EXPRESS COMPANY, Dr.,

		$	Cts.
For Transportation of	3 Boxes	Our Charges,	80
From	Springfield, State of	Advanced Charges,	40
Shipped by	Express	Duties,	
		Amount of C. O. D.	
Date of Shipment	8/21 Weight 37 lbs.	Total, $	1 20

Received Payment for the Company,

F. A. Sudlow

Agt.

(OVER.)

TRAVELERS CHEQUES

originated by this Company in 1891, are **the most modern, economical, secure** and **satisfactory form of carrying funds** for **foreign** or **domestic tours. Payable in gold or its equivalent, without discount or commission,** by 15,000 correspondents throughout the world.

TRAVELERS LETTERS OF CREDIT ISSUED.

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This Company **forwards Express Shipments** of **Merchandise, Parcels, Baggage, Valuables** and **Securities,** and **Freight Consignments** in **small** or **carload lots** by every class of service to or from all **Foreign Countries** and the United States and Canada.

With its **Offices** and **Shipping and Banking Correspondents at all principal Cities** and **Ports of the Commercial World,** this Company is enabled to give the **best** and **quickest Foreign Express and Freight service.**

MONEY ORDERS

of this Company possess advantages over all other safe methods for remitting money.

RATES FOR MONEY ORDERS ISSUED IN THE UNITED STATES.

NOT OVER		NOT OVER	
$ 2.50	3c.	$ 50.00	18c.
5.00	5c.	60.00	20c.
10.00	8c.	75.00	25c.
20.00	10c.	100.00	30c.
30.00	12c.	Over $100.00	
40.00	15c.	at above rates.	

Transfers of Money by Telegraph

made by this Company between points in the UNITED STATES and CANADA; also **Cable Transfers to and from Foreign Countries.**

DRAFTS ON FOREIGN COUNTRIES.

Drafts drawn by this Company on all parts of the Commercial World.

Further information can be obtained at any agency of the Company.

0030179

Auch Orleans
to Sibley

Aug. 21, 1909

Left at Windsor
Hotel, Sibley
Aug. 21, 1909

OK

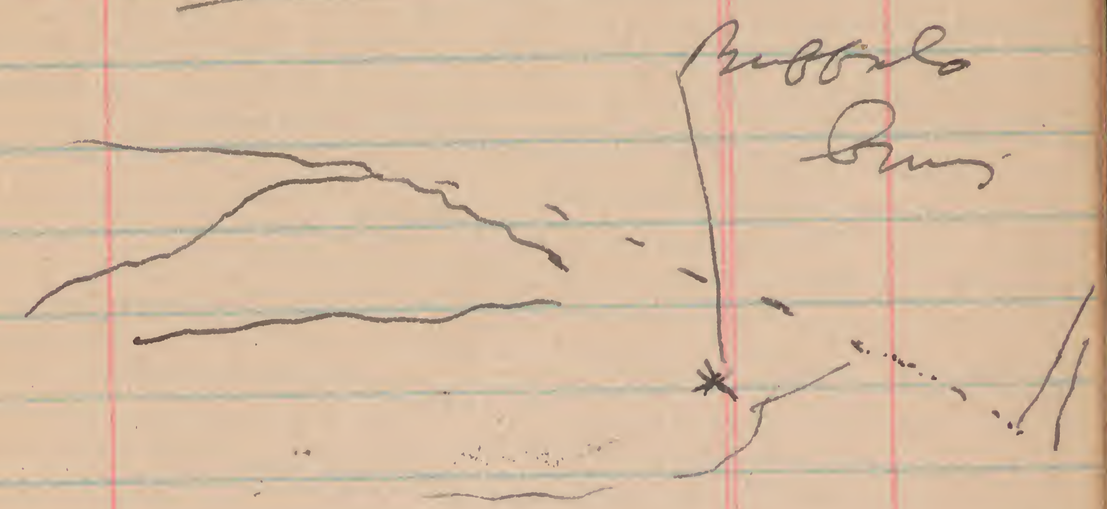
1

The Logan Observer
Mr. J. C. McCabe
editor

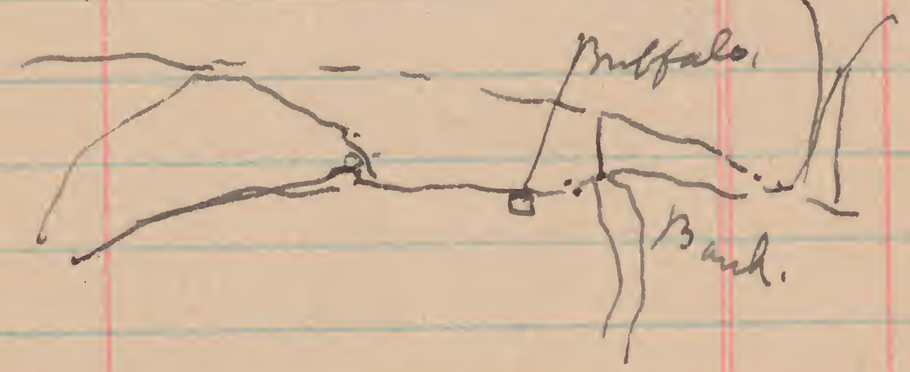
Mr. Almon Stern,

Logan, Iowa.

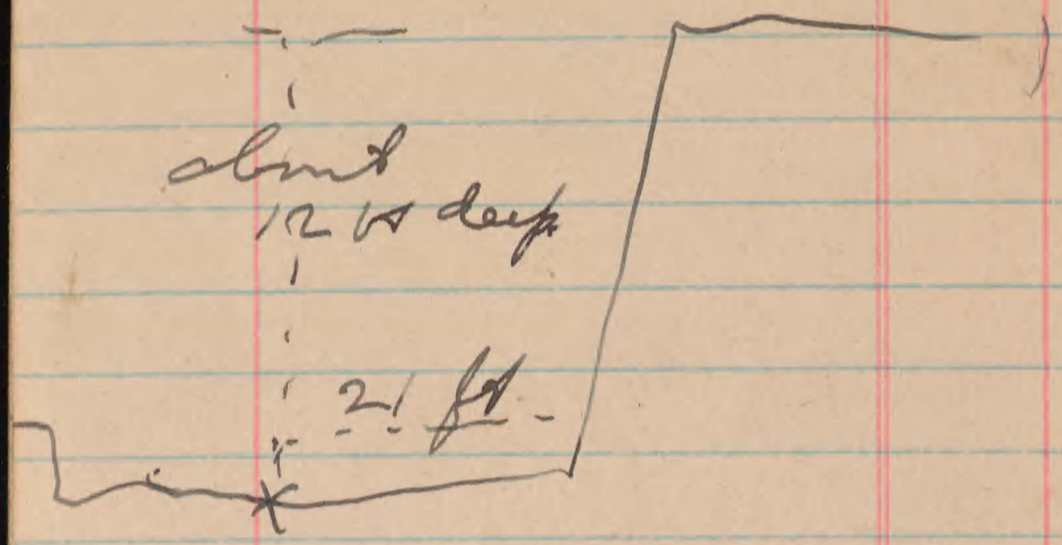
Photos 13 & 14



Photos a & b (near)



The material is hard on drying, looks loess-like, but duller, no lamination & is a sort of gumbo (not extreme)
It looks like alluvial overwash. Has streak



and down (thin) of
coarse sand & even
small pebbles, below.
The skeleton was
apparently almost
entire, but was
damaged by scraper.
Found a Limnea, a
number of Pyrámi.
alternata, 1 Polygyra
profunda, one
Helicodiscus, one
Vitrea hammonis,

a Polygyra hai a two.
The whole thing reminds
me of the yellow
alluvial deposits
near Buffalo in this
region.

Mr. McCabe's well on
~~terrace~~ Tonawanda Logan is
62 ft. deep, about
a foot in sand, &
a little more gives
gravel.
Above this is a heavy
clay, - about as heavy
as the clay in Buffalo
pit.

Photo c, d.
Prairie at Cemetery
Photo e, f.
Quarry —

1

x = Dunlap to Logan.

Plants near or general prairie on way to Logan.	
? C.	Pedicularis canadensis
x C.	Viola pedata
x C.	" delphinifolia
x C.	Oxalis violacea
x C.	Lithospermum canescens
x C.	" arvense
x C.	Sisyrinchium canescens
x C.	Sisyrinchium angustifolium
x C.	Senecio balsamitae
x C.	Fragaria —
	Phlox pilosa
	Dodecatheon meadia.
x C	Blue grass
x C	Dandelion
x C.	Capsella bursa pastoris
x	Artemisia —
x	Astragalus canadensis.
x C.	Hypoxis erecta
x C.	Commandra umbellata
x C.	Rosa arkansana

{C. are in Crawford Co.}

× C. Symphoricarpos occidentalis
× ? C. ? Potentilla anserina
× C Equisetum arvense
× C Ellisia nyctelea

Wet places in Harrison
between Douglas & Logan.

Cat	tail
Iris	
Utricularia	
Acorus.	
Carex	
Scutellaria lateriflora?	

Alluvial - Douglas & Logan

Ranunculus septentrionalis	
Phlox divaricata	
Anemone canadensis	
Ranunculus	
Salix	longifolia
"	amygdaloides

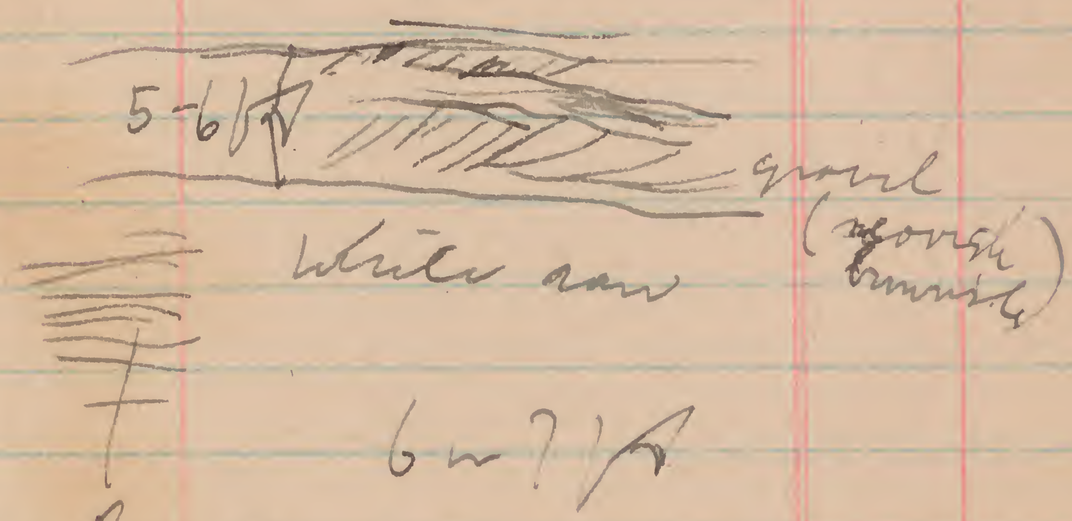
July 2. 1902

Left Iowa City at 3:30 PM.
Reached Schuyler at 2:20
a.m. July 3
Mr. Lonsdale & Folden drove
me to Clarkson.
Collectors please on
wrong. Pennie.
(The man from whom I
got bison bones is
Jos. Bridicko.)
The country N. of
Schuyler is flat for
some distance, and
then becomes roughly
like Kansas. It
was practically all
prairie, but now
only strips along roads
especially on swells show
prairie flora. All else

(Mr. Jos. Munzil)

is cultivated, or covered with weeds.
I spoke in English for 40 min. & Bohemian about 18 minutes, – all from 11 a.m. to 12.30 P.M.
In afternoon walked out on bluffs, W. & S., the latter especially, at Mr. Jos. Brdička's home being almost pure prairie.
See plants.
Walked out with Mr. Zugin Dolda & Mr. Heytmánek, the latter Dr. Habenicht's son-in-law, & an intelligent, traveled man.
Left at near midnight.

July 4 – (Rain)
Reached Fremont at 5 a.m. Left by U.P. at 6.09 a.m. & reached Omaha at 10.20 a.m. Drove to Irvin. – The bluffs are everywhere green, as in spring.
Collected plants on hill N. of Irvin.
S. part of pit shows:



Beautifully horizontally laminated.

Est lines from Babcock. were taken about 12 M. in same sand.

July 5-1909

At Logan, at the grand falls at foot of beach. there is about 9 to 12 ft. sand, cross-bedding, old and finally 18 in. of gravel on white (Mississippian) limestone. There is no pre-Kansan here. - just as in quarry.

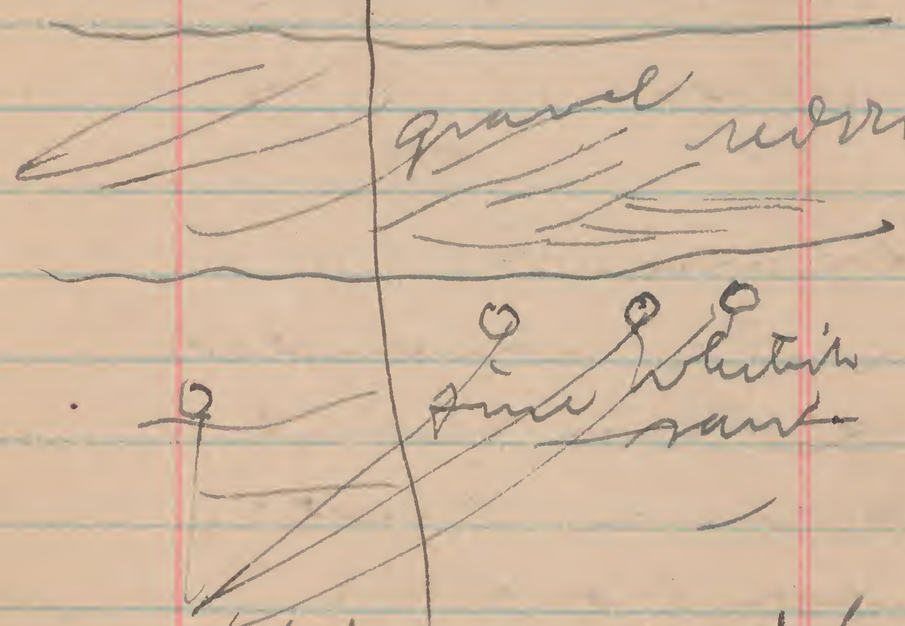
Charles L. Crow -
Logan Ia.
Look up dates of surveys of Missouri river.
Mr. Crow can supply some. Has Nicollet map & map of 1867.

July 16 – 1909
Left Iowa City at 7:30 PM
& Cedar Rapids at
11:55 PM. for Omaha.

at Tipton pit – Mr.
Babcock says that in
boring at N. end of pit
they struck a "dark
clay like rubber" –
N. of present part & S.
of old part. on ~~gravelly~~ fine sand
part there is a
layer of nicely stratified
silt – parts blue, light
same red (coarser) &
some dark.
About 2 ft. of this
grades down into fine
sand.
In present pit (S.) the

gravel bed is on top of fine bed of white sand.

In boring into the rubber. lots stuff they struck boulders here & there in it.



There are round brown sand tubes in white sand.

& forms are for light & it is evidently a sort tube filled with rubber sand formation.

The pit up at the lookout shows the tumbled condition fairly acute.

Wh photos from lookout, looking W.

Castano pit is badly shattered, & we made out nothing new. The Kansan here is very prominent and thick, & shows Loveland above.

at the well U, of
pit the fuel-kaum
is in heap, &
in exposed place
is whitish, but
black within,
& breaks up into
very small cobles
& contains pebbles
& particles of coarse
sand.
Put up at Cadiz

In the Omaha Weekly
Democrat I found
a report of
some news from
the Democrat of
July 1, 1890. containing
the following:
"There were four
brickyards in Monona
county at that
time, one at Ute
Castana Moorhead
and Round Grove
in Sherman township."

At Irwin Mrs.
Mattison
had many bones
of bison — cow
& bull.
Will see him
tomorrow

In P.M. started
New town
Kamloops.

Took photos in sec. 9, 15 & 16
84-44 - looking S.E. & S.
The bay bare ridges
even in sheltered sides
of great divides are
bare.
2 telephoto
2 - ordinary

In the S. part of sec. 17 (W. part of 20)
84-44 is a very deep
cut in pleistocene
(bolder) boulders. Few
nodules, no shells.
30 ft. deep
(See photo)

Also took photo of
bare ridges S.E.
from some fine
Telephoto.

At the bottom for
all was planted
Lindley. Kamm
down on it. Then
starting from
Astorian built a
fort or two &
then dumped
tales.

Christ. Mathiasen
Fusin, Da.

July 18-1909
Went out to Jordan Twp.
to look into Beaver cr.
bone beds.
Stopped at G. F. Stuble, Carlton Da
gave us deer-horn. (give
credit.) & identify
Went down the
creek gulley in
about 18 ft deep
& about 35 ft.
under the lower
part (at least 40 ft)

is a dark blue
black muck (like
substance material
but clearly altered)
& in this are streaks
of sand. (Sometimes
finer layers, then
thicker ones)
In this black
muck & sand
imbedded a tibia
of bison (short &
big at end) 15
ft. from top.
There were also
many bones, shells,
of Pleura, Helicodiscus
Limnea, Pisidium &
Limnea (?)
Also pieces of
carbonized nuts

Saw in bed of
creek a stump
also exclamation
& broken off
squarely — (Is
this Geo. Figlers
saw off logs?)
Note number of
black rock.
In Portion of it up
the stream from
Tubes (like those
of blue lava)
appeared
from a large
vein of lime
in layer of gravel
(the black one)
about 15 ft.
below top in
bed of creek at

water level
From piece of
white lime
evidently contains
of asphalt. Bits
are frequent in
these gravel
strata (explain)
About here
was a beaver
dam — about
3 yrs — about
12 ft. deep, —
Eros showed
beaver and
3 yrs ago there
was no gulley here
& Mr. Stimell could
drive over anywhere
Within the last ten
years most of the

washing was done,
Dry here (water
abundant here)
went on into an S
on the Stubbs Olive
farm, & here in
deep gulley of
Mars creek
were fine bubbalo
bones & a pretty
deer horn

Mr. J. F. Stubbs
Cartana, Ia.

Row of fine cottonwoods
in N. E. 4 sec. 13 -
Jordan.
Note photo

The fine Belvidere
bench is higher at
its west border -
probably 40 or 50
ft. higher than
general level of
bench.
All the bench
is covered with
loess.

July 19 - 1909
Drove to McCleary's pit & to "Buffalo" creek (Mr. Whiting calls it Master's creek, & the man on the plane called it Lost Park creek)
The skulls came from:
one was "heavy like stone", & was taken from SE ¼ of 24

Cutter Pit
Our skull came from SE ¼ O. & such flaws from S. E. & N.O.
There are diggings in east ½ &

The Woodman plane (SE ¼ 24) may have been one which they owned. This was in S ½ of sec. 36 Maple Grove. But more likely sec 24 - Cutler,

(How much of this information from Mr. Edwin Quick at Whiting's bank.)

Mr. Edwin Quick

Old Mr. Silas McClary in sec. 34 (near center) (owned now by Crow son.) from buffalo skull at 1½ ft on upper bench (in quite a knoll).

Mr. Quick has antler of va. deer taken in draw, quite well up —
Mr. Albert Linn found it digging a well, 15 or 16 ft.
This was on W. ½ of the S.E. ¼ of sec. 16 — copper hop 84-42.

From Mr. Quick (creek S. of Mulleton is Muddy creek. Near school house — S.E. of S.E. of 30 in Cooper Hop. were from two skulls in deep gulley along creek. These were buffalo skulls; one very large.
(Fine plates in 4 inc — in the Whiting Elephas imperator tooth)

Look up discussion of buffalo in Wallace Farmer? Mrs. Whiting knows of man who killed buffalo.

(ask J.B.P. Day about bones of ante diluvian Horse)

Draw N.W. with Mr. Calvin & Hawkins plans.

In sec. 14 - 85 - 43

Mr. C. A. Hawthorn says that in his oldest pit there was coarse material but in this big pit near house, the strata are regular. Bones were born, found, & what appears like fuel.

While sand in big pit was at first about 6 ft. below surface, but deeper farther back, underlain a joint pebbly clay (Kansan)

The line between the two was level & sharply defined, white (light)

Sand nearly white at top.
About 1½-2 ft of sand (yellow) v
then vein of gray clay - 1-2 in.
then sharper, coarser white sand, 2 ft.
then thin layer of gray clay ½ in.
Then very sharp clean white sand, ½ ft. (about)
Below this is plain clean fine sand, medium coarse sand.
Few in. to 2 ft. - In pockets
Below this "a red tough "potters" clay"
Shade in color, sand ft - very hard. Dig

Not get through it.
No pebbles or sand in this.
(Wm. Ferdig - owns hill)

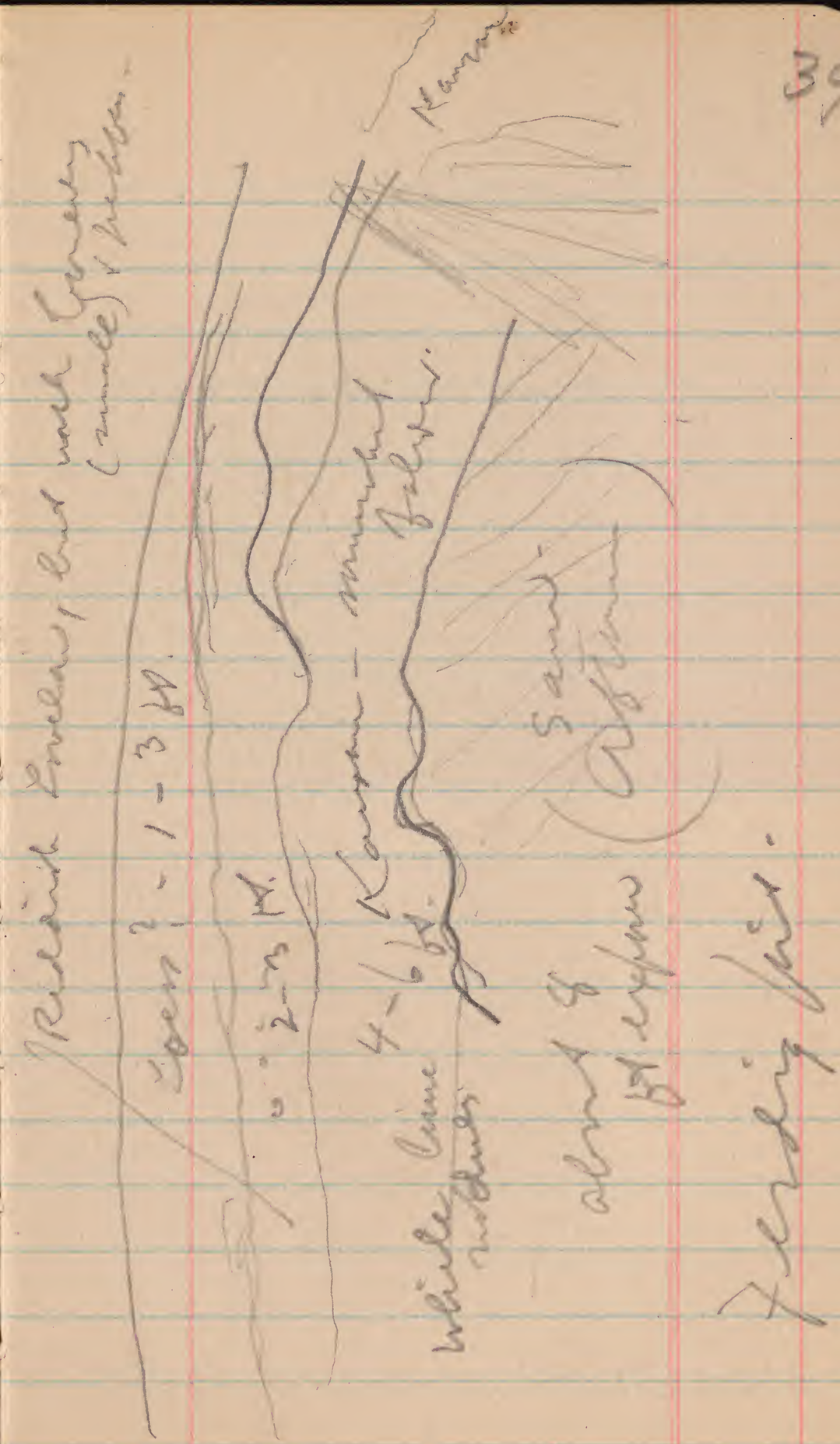
Attention from large bone in coarse sand had many teeth among jaw. - 5 or 6 mm. crown 1 ft. long.

The pit is now badly slumped, but shows yellow loam at top, then distinct red Lowlan loam 4-5 ft. There is an old dark band (soil) 2 in to 1-2 ft, ~~[illegible]~~ in Lowlan.
Lower down -

Below this was
Kamm.

Ferding's pit is in S.E.
cor. of sec. 10-84-43

W. S. Ferding (in the
Potter)
about 10 ft. of sand
below the white
line.
Below this a tough
pebbly clay, yellowish
varies, gravelly in
some places & then
sand,



The line between the Kanawha & Loveland is quite short, there being a little bar of red between. This is blinded with lime, & new bands & is 5-8 in check. The Kanawha is very limey & folded with small folds etc.

Lahinda Lake
August, 1909

Left Iowa City July 31, at 8:00 & Cedar Rapids at 12:35 am for Ukiah Oregon.

Fare to C.R.	.50
" " to Oregon	4.54
Bus fare	.15
Boat (Dean)	.50

August 1 – Sunday

Reached the Lab about 10 am. & learned up. At 11 am. Sunday services – Dean Evans of Duke Law School talked. In the afternoon, after

services
took dinner at
Wilder Hotel
Lounged & looked
about in afternoon.

Aug. 2 – Monday
Mr. C. F. Brower, Miss
Louise Falk, and John
F. Buchholz left.
I studied the local
flora, + prepared lect.
arranged my
belongings, and
tried to get my
people together, but
found Frachey, Thomas
& Puckett away, +
others were still
unsettled, Wilson
being the only one
to appear,
Wylie packed,

Lecture on Drugs & Narcotics 3.75 – 4.45 Auditorium

Bath.

we adjusted 2nd mess &
left Mrs. Davis, but
discharged Charlotte & Utterback
Pressed some mounting plants.

Aug. 3, (Tues)
Dr. Wylie and Wheeler
left on their trip
down the Iowa,
Mr. Knupp left.
Thomas + Puckett appeared
& later (while I was
gone) Frachey came
back,
Went over to Arnold's
Park & took 10 45 am
train for Spirit Lake.
Purchased old papers, &
had drugs & everything
prepared.
Returned by boat
(Des Moines) in
evening.
In morning I discussed
work with students

Aug. 4 (Wed)

Set up evaporating pans at stations 1, 2, 3, 4, 5, 6. Took readings (see note) (For description of stations see pp. 64-67)

Dredged for molluscs in bay. Bathed.

Aug. 5 (Th.)

Mrs. Buckley (who has been here for a day or so) left.

Took readings at intervals all day. This was the day when practically all the day was given to these observations.

I also discussed shells + plants with the students, who were here: S.B. Fraker
Raymond Hilma
Miss Etta Bardwell
" Eva Varney.

Miss Brown did not come in.

Aug. 6 (Fri)

Took evaporation observation, also by Wilson, Ida, Worked | Lonsley, pretty N. (?), have return on the Dave Desert in evening.

Aug. 7 – Sat

Took evaporation observations with assistance of Wilson Smalley, Miss Varney, etc.

Went over to Arnold's Park and got Miss Cavanagh & Miss Margaret McElroy. Miss Gray also came

Aug. 8 – Sunday.

Rained a little AM.
Rev. Jackson of
Estherville conducted
Sunday services
assisted by Revs.
McClure, Wilson
pastor, from Cornie
Bluffs.
Lounged about, wrote,
arranged plants
in press, etc.
Took three readings
of evap. atmosphere,

Neither of the several
gentlemen had or
bible, & they had
to detain on the
garden lab. for it.

Aug. 9 – (Mon.)

It blowed very strong
in morning & we
did not go to Estherville,
but took evaporation
readings, & collected
some.
Miss Matilda Dennis came
in on 11 o'clock in
forenoon,

Aug. 10 (Tues.)

Took trip by launch to Orleans & caught train for Estherville. Very hot. Packed remains at Orleans. Missis Dunn, Zoey & Mam Thomas and Frankie were with me. We worked up prairie flora N.W. along C. R. I & P. RR, & then collected a few plants and shells near dam on Des Moines river, walked out about 2½ miles.

Returned in evening by launch. Lunched on way. Took my bicycle down in launch. Found it broken (crank) Wilson took reading.

Aug. 11 (Wed)

Looked after material, took evap. readings and worked S. for mails & plants. The little swamp S. of Miller hotel & the woods found hospitable.

Aug. 12 - (Thurs.)

(2) Made many observations, kin enough keeping Fisher from shell lists on U. shore of Miller's Bay & I got a lot of it. Worked at it a little.

Aug. 13 - (Friday)

Spent forenoon identifying shells & plants, & making out lists of shells.
Miss Varney left.
Spent afternoon in brook work.

Aug. 14. (Sat.)

Mama sliced & pressed in forenoon, Zola Gayle to Ansel's park with Mrs. Tracher & Miss Dunn. Miss Dunn's train was late and she had to return. Colonel Stampede broadcasts on forest near drew bridge at Ohrtogi. Returned & finished shipping press of plants. Turner-Reigh lens came at last, but could not fit it.

Aug. 15 (Sunday)

Miss Dunn left on. Spent day in arranging & packing, and named some plants.

Rev. Perkins of Watertown, S. Dak. conducted services in the grove at the hotel. Again neither he nor Rev. Jackson had a bible, the young lady clerk at hotel furnished it this time, & we went in hymn books. (unsuitable books)

(see p. 61)

Lakeside Club

Accounts

Received from:

Aug. 2	" C. F. Brower	3 meals	.50
"	" Louise Falk	"	.42
"	" John Buckholz	10 "	1.50
"	" Mr. Lutton - Family		3.75.
"	" Whedon	3 meals	.45
Aug 3	" from Mr. Olmstead (for Thomas)	1 meal	.15
"	" Mr. Knapp (owes)	10 meals.	1.50
"	" Dr. Wylie - 28 meals		4.20
Aug 5	- from Olmstead 1 meal (for Puckett)		.15
	from Mrs Puckett - meals		2.00
Aug 6	Lutton		1.00
Aug 10	Bertram Puckett 17 meals		2.35

Accounts

Paid - Aug. 3 -

Dredge, netting	50 30	.80
5 ft. belt - Puckett		.25
Wheedon - saddlin		1.00

Paid Aug. 4 - old mess for left over saddlin .81.
(Dr. Wylie was paid $1.00 for balance)

Paid Aug. 7 - Laundry (see bill) .48

Aug 13
Paid meat .80

Receive Aug. 13
S. B. Fuller
Rent - rent $ 1.50
Aug. 14.
Miss Ivey -
Rent - 2 weeks $
Aug 24 - 4.30
Tuition 2.50
Miss Bardwell
Rent. 2 week 4.30
Tuition 2.50
(~~[illegible]~~)
Aug 16 - Miss McElroy
Board
Aug 6-16 - 2.50
Board 3.00
" .25
Miss Mat. Dues - 2.00
Tuition 2.50
Mess. - 1.90

(see p. 57)

Aug. 16 (Mon)

~~Did, local work, and spent some time picking for the [illegible]~~

Identified plants for Carlson, Miss Bardwell left.

Miss McElroy left 5:30 am

Went to Spirit Lake & Okoboji by land, collected plants, & slept.

Miss Cavanagh, Miss Burr, Miss Ivey & Pucket were in party.

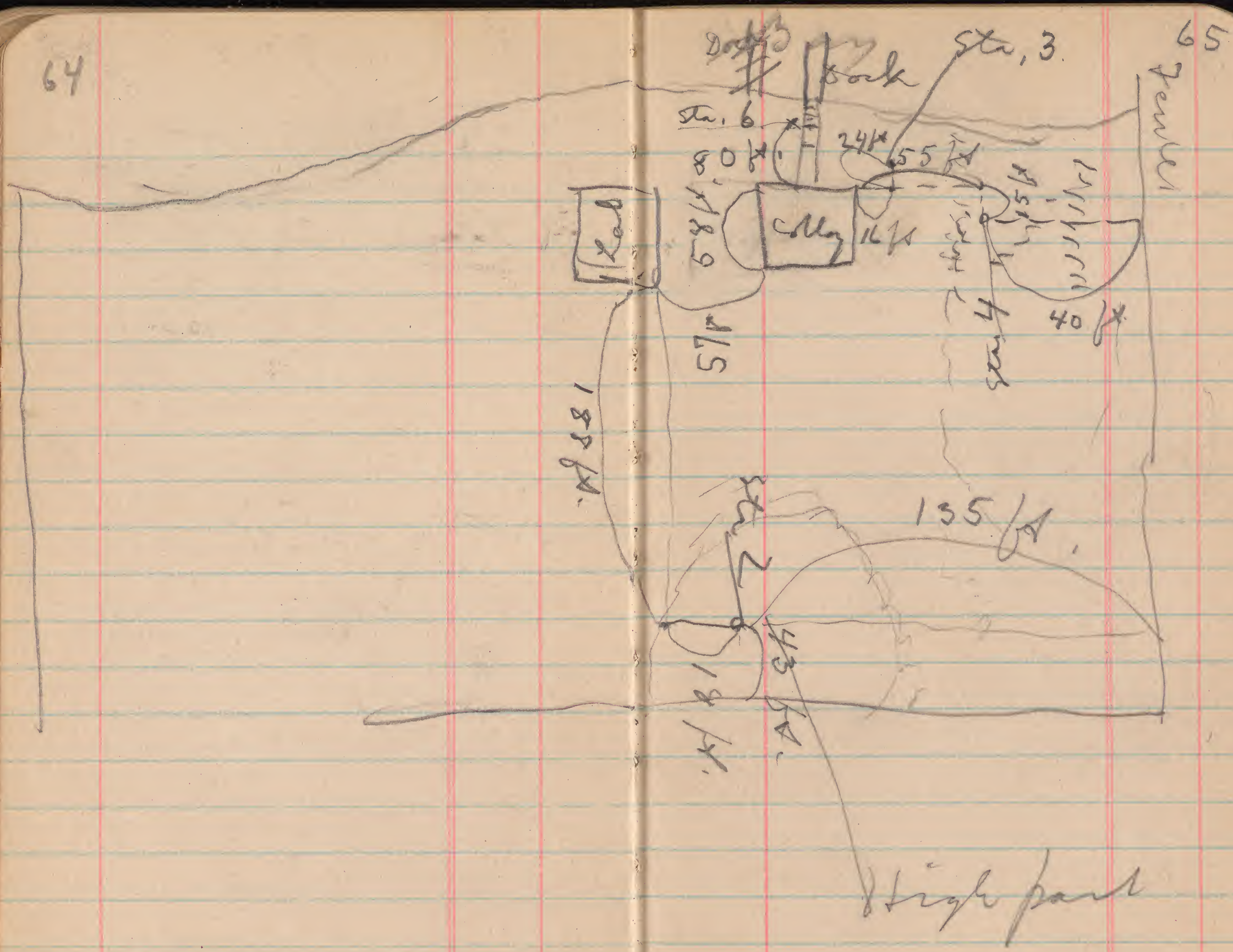
(see p. 63)

Sun Aug. 1
" 2
" 3
" 4
" 5
" 6
" 7 Rev. Jackson
Sun. " 8
" 9
" 10 - Echeville trip
" 11
" 12
" 13 Miss Varney left.
" 14 Eve - Sunday Pack - Sunset
Sun " 15 Miss Sims left & Pack, cleaned cab.
" 16 - Miss Burdell left
" 17 - Wilson left.
" 18
" 19 Coll. S. + N. Miss C. left Arnold's Pack
" 20

Aug 17 (Tues.)

Mr. & Mrs. Wilson Sr. & son Raymond left for Winfield. Spent day in local work, changing drains, arranging lab., and fighting "Alps" working again lab., cleaning up, etc, & preaching

(see p. 69)


Sta. 3
Sta. 6
80 ft.
24 ft.
55 ft.
58 ft.
Colly
16 ft.
Road
57 ft.
Sta. 4
40 ft.
185 ft.
135 ft.
Sta. 2
Sta. 1
Sta. 5
High point

Sta. 1 is on top of high point,

2 - On open beam top

3 - In open - beam

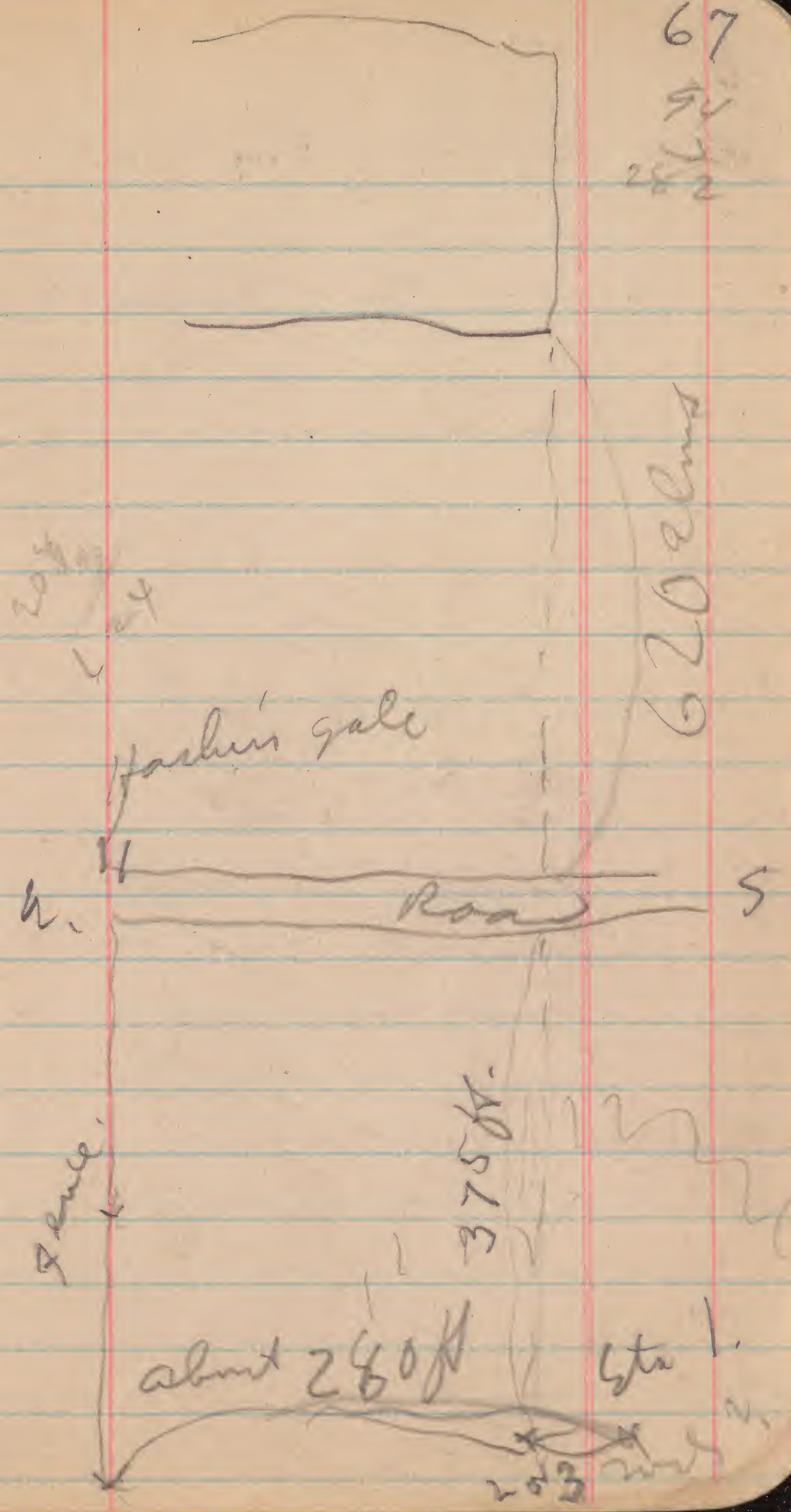
4 - In grove of low oaks.

5 In woods near spring about 100 yds W.

G S. 6 (4)

6. about 11 ft. above lake & about 14 ft. W. of shore line on beach bank with

Symphoricarpos, Pellaea ferns, aster (smooth) Helianthus, Monarda, Elymus, Phleum, Artemisia ludoviciana, etc. Cirsium altissimum?



(see p. 63)

~~Aug. 18 (Wed.)~~
Fished am.,
Packed plants &
telescope.
~~Packed & finished~~
~~some plants, fm~~
~~my house. Bro~~
Called on Mrs. Beck
at Inn & examined
dying oaks. Were
affected with caterpillars,
flat scale insects,
and galls.
Trouble evidently
had where trees
on slope were
exposed by
removal of trees
along shore &
give guests
view of lake.

Collection of Plants

Aug. 19 (Thurs.)

M. 13 ~~27~~ Collected plants M. & P. & picked some choice berries. Went on in Lamoth & Cooper's Park. Rain commenced left. Packed last m/s carefully & left. On returning I collected plants 5 hours more box. Packed & put plants.

Aug. 20 (Fri.)
Early breakfast & drive to Miller Hopp. Collected plants chiefly M. & M.V. (prairie) & put them into press. Packed. Out 1 P.M. hiked for spring fair by the Deshoms. Then bicycle exercise, shopping, purchase of plants, etc. Returned by way of West Oakleigh & home R. I. Cathy on train bound for Lad. Got in late.

Aug. 21 (Sat.)

Packed in an hour early. Carried cots, mattress, etc., & cleaned up generally.

Located my station (see pp. 64-67). Had breakfast & dinner at Miller Hotel.

Left at 1 PM. by the Des Moines for Spirit Lake. Stopped 3 hours to see Valley & then pulled up to Orleans & collected shells along R. shore. Went early again at Orleans & collected & visited until about 6 PM. when my train left for Sibley. My checks mysteriously failed to arrive. Put up at Minnow Hotel at Sibley.

Aug 22 (Sun)

Left Abbey at 4.33 am & reached Fort City at 7:20. Had lunch, & went on to Miami Valley. Arrived at 10 am. Rains soon. Stopped at the Miller. After dinner came out & cut & got my hair. Mr. Pitt Cox also has bin master lord, which I will set later.

Visited at Cox's then drove to Miss M. & Mrs. & Mary and received presents on S. ridge and at Sta. I met a couple of young men studying of Ohio State who are in quarter rising at Chautauqua. They commenced to air their views on the geologic formations, & I gave mine a little surprise that the shales

fellows they encountered
knew anything about
it.
Reached my
quarters at
9:20, & left
for Cedar Rapids
at about
10:30 P.M.

Aug. 23 (Mon.)

arrived at
Cedar Rapids at
5:25 A.M. &
left for home
city at 6 A.M.

May 9 - 1910

went E. of cemetery into John Pick woods. Found hazel, Viburnum prunifolium, & many other things badly nipped. May apple was down & many flowers for buds frozen.
Polemonium reptans, Viola —, Ranunculus septentrionalis, Trillium erectum
seemed to be sound.

May 24 - 1910

Hamilton to Acuna

Prunus serotina
Robinia pseudoacacia
Corylus americana
Cornus paniculata
Rubus granile
Quercus macrocarpa
Viburnum lentago
Ulmus americana
Psedera quinquefolia
Carya ovata (Mill.) K. Koch
Quercus alba
" rubrum
Celtis occidentalis var.
Rhus occidentalis
Rhus glabra
Sambucus canadensis
Amelanchier Canadensis
Gleditsia triacanthos
(Gymnocladus dioica)
Vitis riparia

Crataegus ~~[illegible]~~ Margaretta
Celastrus scandens
Rubus allegheniensis
Rhus toxicodendron
Pyrus ioensis
Crataegus mollis
Prunus virginiana
Rhamnus lanceolata
Ribes gloverni
Quercus imbricaria

Herb

Nepeta cataria
Geranium maculatum
Sanicula canadensis
Polygonatum giganteum
Osmorhiza longistylis
Asplenium filix-femina
Galium aparine
Osmorhiza claytoni (lis)
Polemonium reptans
Viola sororia (pri)
Scutellaria epilobifolia

Hydrophyllum virginianum
Botrychium virginianum
Orchis spectabilis
Arisaema triphyllum
Carex rosea
Lonicera —
Actaea alba
Mitella diphylla
Podophyllum peltatum
Uvularia grandiflora (1)
Polygonatum canaliculatum (fr.)
Osmunda claytoniana
Ranunculus abortivus (1 spr.)
Smilacina racemosa (1)
Thalictrum pubescens (1)
Sanicula marilandica
Uvularia grandiflora
Dodecatheon meadia
Cypripedium parviflorum
Sanguinaria canadensis
Adiantum pedatum

Pteris aquilina
Viola cucullata (hairy)
~~Osmunda cinnamomea~~
Cypripedium pubescens
Asplenium acrostichoides
Carex laxiflora

1912
(Later adds
Aquilegia atrata
" grypoceras)

Prairie border

Tradescantia reflexa
Potentilla canadensis
Artemisia ludoviciana
Poa pratensis
Krigia amplexicaulis
Erigeron ramosus (lr)
Achillea millefolium (lr)
Lespedeza hirsuta
Phlox pilosa
Sisyrinchium campestre
Salix humilis

Rose
Polygala senega
Desmodium acuminatum
Zizia aurea
Eryngium yuccifolium
Dalea plantagineum
Carex pennsylvanica
Amorpha canescens (pr)
Fragaria virginiana

Potentilla canadensis
~~Pteris aquilina~~
Veronica virginica
Solidago humilis
Phlox pilosa
Rhus glabra
Rosa Coreopsis tripteris (lr)
Desmodium pauciflorum (lr)
D. canescens Psoralea (")
Zizania aquatica
Senecio plattensis
Silphium connatum
Viola pedata
Ceanothus americanus
Cimicifuga americana
Pellaea atropurpurea
Heuchera hispida
Artemisia caudata
Equisetum arvense

Alluvial

Salix nigra
" amygdaloides
" longifolia
Cornus sericea
Fraxinus
Ulmus
Celtis occidentalis
Juglans
Black walnut
Wild Plum
Brook
Box Elder
Black Birch
Plum Tree
Hackberry
Elderberry
Cottonwood
Amorpha fruticosa
Honey locust
Crab
Spiraea salicifolia

N. Spring

Alluvial Prairie

Senecio plattensis (very com)
Phlox pilosa
Baptisia australis (bds)
Helianthus tuberosus
Veronica virginica (bds)
Prenanthes (Spring)
Equisetum arvense (stems)
Viola pedatifida (Sp)
Erigeron ageratis (Sp)
Silphium laciniatum (")
Potentilla canadensis
Erigeron
Artemisia ludoviciana
" Gleichenii
Helianthus canescens
Bouteloua curtipendula
Achillea millefolium (bds)

Dill's Hill

June 27 - 1909

Erigeron ramosus fl.
Trifolium pratense fl.
Poa pratensis fr.
Corydalis halmata buds
Ruellia ciliosa lvs.
Kuhnia eupatoroides var. corymbosa lvs
Helianthemum canadense fls
Solidago (small lvs) nemoralis lvs
Euphorbia corollata lvs,
Potentilla arguta lvs.
Scutellaria parvula fl. & fr
Achillea millefolium fls.
Lespedeza capitata lvs
Amorpha canescens lvs,
Lactuca canadensis lvs.
Panicum scribnerianum fr
Eupatorium altissimum lvs.
Oenothera flexuosa lvs
Monarda mollis lvs.
Trifolium repens fls.
Apios tuberosa lvs

Lobelia spicata fls.
Sorghastrum nutans lvs
Andropogon furcatus lvs
Verbena hastata fls
Platanus Raynolii buds
Rhus glabra buds
Andropogon scoparius lvs
Aristida cylindrica fr
Koeleria cristata fr
Rudbeckia hirta fls
Ambrosia artemisiifolia lvs
Verbena stricta buds
Melilotus alba fls.
Senecio plattensis lvs
Physalis pubescens fl & fr
Cassia chamaecrista lvs
Monarda bradburiana fls
Physalis fr
Veronica Chapman buds
Nepeta cataria lvs
Clematis Pitcher fls

Aufgaben spricht es
Ruhe reichlich die
Gleichung unterhalb der
Anfangspunkt berechnet
Zapfen in den Centrum die
Kreis Punktmittel
Redent. Funktionen
Integral auftreten für
Gleichung systemen für
Abschnitt condition

1910

Adams - Sand - July 16

Desmodium illinoense
Carex granularis? Gr.
Rumex mexicanus? Gr.
Rudbeckia serotina
Lactuca canadensis
Carex festucacea
Physalis viscosa
Schoenolirion spicatum
Rudbeckia hirta
Achillea millefolium
Monarda punctata
Artemisia ludoviciana
Ipomoea pandurata
Strophostyles helvola
Andropogon scoparius
Scirpus lineatus
Elymus canadensis
Chrysopsis villosa
Verbena urticifolia

Verbena stricta
Ruellia ciliosa
Euphorbia corollata
Agrostis alba var.
Plantago aristata
Erigeron strigosus
Cyclanthera pedata
Rhus v. trilobata
Lactuca canadensis
Croton glandulosus
Helianthus annuus
Erigeron canadensis
Panicum texanum
Ceanothus ovatus
Polygonum ramosissimum
Asclepias verticillata
Oxalis stricta
Aster sphaericus
Lechea capitata
Polanisia trachysperma
Rhus glabra

Lilium [illegible]
Nodus vitulus
Frolenhi —
Rosa —
Artemisia canota?
Ambrosia psilostachya
Pyrethrum parthenium
Pentstemon cardinalis
" fruticosum
Anethum graveolens

Expenses - Oshkosh

	RR to W. Oshkosh	4.54
	In city to CR	.50
	W. Oshkosh to Lab.	.50
	To Shiner Lake	.50
8/20	W. Oshkosh to Lab.	35
	RR. Arnold's Park to Shiner Lake	1 0
	meals - Min Council	25
		25
		50
		35
	My meals	35
		35
		35
		35
		35

~~Iowa Ex. Exp.~~

Aug. 21	Orleans to Sibley	.72
"	Transfer Sibley	.25
Aug. 22	Supper (2 ms) & lodging	1.00
	RR. to Sioux City	1.47
	Breakfast " "	.30
	RR to Mo. Valley	1.52
	Hotel Willey Dinner & sup.	1.00
	Team (to Logan)	1.50
Aug. 23	RR to Cedar Rapids	4.89
	RR to Iowa City	.50

Transfers & other bills

Aug. 1909

Photos – Box 1 – Chubaji

4 – Wilma's fish,

2 – Lake from Cab

2 " " "

2 Wheat fields from high pt.

2 Calvin's Ranch (camp)

2 – Hills N. of Nicolet's Bay.

July - 16 - 1909

July 16	Iowa to Cedar Rapids	.50
" 17	RR to Omaha	5.41
	Elevator to Mo. Valley	1.50
	Breakfast	.60
	RR to Tama	.14
July 18	(Balls) "	.25
	(Gloves)	.25
July 19	(Mathisons - Tama)	1.25
	RR. to Marshalltown	.28
	Hotel "	2.00
	RR. to Cedar Rapids	4.81
	" " Iowa City	1.04
	Cab.	.25

July 2 - 1907

Track 50 RR. to Omaha	5.49	$5.99
Supper en route		.55
RR. to Schuyler		1.32
July 3 - Fare to Fremont		1.05
Lunch 25, ~~Breakfast~~		
July 4 -		
Breakfast, Fremont		.25
RR. to Omaha		2.20
Team "		2.00
Feed 35, Dinner 25 (Train)		.60
RR. to Mo. Valley		.77
July 5 - Lodging 50		.50
July 6 Mo. Valley Breakfast 50		.50
RR to Logan		.14
RR Logan to Co Bluffs		.60
Supper " "		.25

May 13, 1909.

	Carfare to Cedar Rapids	.50
14	RR. to Iwo. Valley	5.
	Hotel " "	1.50
	Livery " "	2.50
	RR. to Denver —	
15	Hotel Denver —	1.20
	RR. to Trinidad —	
	Livery " —	
	Lunch "	.25
	RR. to Walsenburg	
16	Hotel "	1.50
	Livery "	2.50
	" Ute 35, hotel 50	.85
	~~RR. to C.~~ Rola lunch	.25
	RR. to Cedar Rapids —	
	To Iowa City	.50
	Hack	.25

May 21-1909

	Hack 25 RR to CR 65	.90
22	RR to Lyons	4.72
	Meal —	.45
	Lunch	.35
	RR. to Cedar R.	4.22

Aug. 1 - Sunday

Aug. 2 - Picnic from

Aug. 3 - Shins Lake

Cases & dredge

Aug. 4 - Dredging (Wed)

" 5 -

" 6 -

" 7 -

" 8 - Sunday (Rev. Jackson)

" 9 -

" 10 - Estherville

" 11 -

" 12 -

" 13 - Miss Varney left

" 14 - Miss Dyers & Clement

Mrs. Fisher - moved shells & plants

Miss Dyers

" 15 - Sunday (Clement)

" 16 - Fisher - lost

Miss Dyers left

" 17 - Mr Fisher left

shoot glasses

& cases

18 - Packed plants & telescope

~~[illegible]~~ - Prof. Macy came

~~[illegible]~~

Fisher, Clement

19 - ~~[illegible]~~

Prof. collected plants & H. fished

Put up specimens

20 - Ole. collected plants, Chief

[illegible]

P. M. to Shins Lake

21 - Packed, with Crotty, & measured stations