Field notes, Harrison and Monona counties, Iowa, 1908 (E-1)

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Nov. 21, 1908

811 Third Ave.
Dr. M. B. Freeman.

Came up 5 o'clock of
ridge & shaw red point

Then
Kameau drifts down in tow
between 3 & 4 o'clock.

Photos 2 & 10
Looking E. down Eah
from King Hollow

Cut 5 & dug wash & slum
a compartment down.

Saw new spring line in 200
just above (see) of this point.
cut to a low cut 150' phase + 10-12 ft deep
glimpse oasis. Right in Rabbit, Newfound of New York sundry. See sample of long
taken 7/12. 6.30 am.

At 7:00 am 2 chimneys (20 mi) or a cut showing about 1/8th. I red points (up to this line), only 6 of points explored. At 8:30 mi was own lines.
Nov 22, 1904

The thinks hit at 35 ft. over.

Coal about 75 ft. down.

about 2 ft. of sand.

with Kama above. No much disturbed

at 45 ft. (up to 45 ft.) at a

point a little N.W. about 4 ft.

of water over the sand. Fine sand

and sandstone, with Kama

distinctly above it.

R. Kama

Kama Hill

Sand

Fine sand.

2.5 miles.

... wid.

... with calcareous flake!
This is evidently Tilly's flower, a composite flower of one another, a few fr. above this up the glen - probably 5 ft above top of the main exp. It is very hard, join one v. join grand calloxy, v. from this stature of sea, with Karran over it.

Wood was green too, Namere etern prima etc. Celtis Symplocos (white) Wilman, Judaus ocident

Red spruce 5-6 ft. crum bale.


Mr. J. is the old woodman pl
This in new road now.
The New Woodlands (Mr. 4)
582 feet above 3 ft of firm white
sand, & above it approximately
about 8 ft of sand &
ground.

Saw this

Willow
Rules (see box)
The white sand contains a
wood tree (like box)
It is nearly a stone.

It bore in about 5 ft above
sand & probably 20 aboveTables
Among the upper layers of
sand & gravel are several con
stromes & stones.

At Smithland unite
A. M. Freeman first
[thresh same top new Arthur
in road cut - about 4 ft in
in N.E. bank of Smithland just
N 9 in.
The top of hill is
65 feet above bottom
the same is further up (says
Mr. J.) is at least 30 feet deep.
Found fine sand (white)
Rose = 45 ft above top of sand
& bottom = 65 ft.
Dr. Rice says there is stratified ground near the old mill (in South Party Town) but now covered.

The material in the pit of the usual cattail lake, toward E. are black.
(Partial transcription)

end + gravel, also variously sand, smooth, fine, gravel-size and sand-sized, sand, pebbles, coarse white nodules, and all, worn away. There is some weathering by immobility. It seems that the piece of (elephant) tusks.

Drove down S. side of Little Siux.
At Stone corner, <hit>(s), it slant about 60°. I see cross-bedded gravel (fine) with some sand. It seems to show a little.

told to S.
It is coffee with Karmn, but old contact line is not as well marked here. Though not exactly weathering, time suggests that it is merely across and down. I say in a few days this is the case. There are time plates between Karmn & all-time.
The hillside here a W. side of creek. Such-and-such are from with Karmn side.
(Come) I passed up to a quick many feet above gravel flat.
The surface is uneven. Karmn except as very little, where from almost...
shores:

on the Kansas surface draw.

Syrmnia

vegetation

S. r. r. corn. stink

Sanilocula (rudy pasture)

C. corn. stink

This in Aldrich young pit.

This in Aldrich young pit.
30th July 27-85-44

No. 6 is a small flat area
Kansa, Kansas, Kansas
3 ft. of silt 2 ft. of sand
Kansa
just above this 15 ft.
above bottom

Located Wingan pit on map. Some bigger
as others.
The point of bluffs leading
W. is rugged & the Northwestern
slope (which we could well see) are mostly forested.
On this course then in

Hoban says that Wingan
pit has much sand &
some gravel. It is situated

on bench about same as
the other.
Mr. Stone (at Stone Bridge)
says Wingan much less
than 2 ft.

It is not a fact that all the
bones & teeth are in deposits
along tributaries & that
are sometimes marine streams.

(No)
Nov. 28 - 1905
Made trip to Woodbine
Up the Willow. Looked up notes.

Dec. 17 - (Wed.)
Left town City for Omelet at 12:45 AM. Reached Omelet at 9 AM (late)
Dec 14, 1908

Let up at 6 a.m., went to Mrs. Valley.

Drove to Cox's & got 3

Interviewed Mr. H. Drew.

In 1897 he planted 1,000, after him
Jonathan, Winesap, W. S.
greenings, 3 Golden
Ben Davis. The values
1, 2, 3 best in that order.

In 1898 he planted 4,000 more.

"1899 - 900" (or more)

At N. end, 18 A. 1,400 trees, Ben Davis
3
+ Jennette's 4. Also 50-100 "Champion"
peach trees (which he will
selling - too uncertain)

Total 60 A. of trees

On low ground, he raises market

nothing, except 2 years ago,
variety has nothing to do with it,
so far as flowers 20 W. S. nis., are
impractical same, and fruit eaten
t better on S. side. Bush sugar
on S. side. Growth of strong trees is
better on N. slopes,
Last year Jonathan's failed caused
too dry in August.

Thinks commercial orchard may be
by cases for,
also has 1,000 concord grape plants
4 yrs. ago. A year ago left bought 600,
last year 660. On S. W. slopes. Six
and 600 more last year.

Lot 16 & part of NW 1/4 S. E. 1/4 sec 1-78-44

W. A. Fosco - 2 mi. W. of Mrs. Valley.

"N. of John Cox). Cultivated with
fruit & vegetables. 40 A. T. & Land.
mostly orchard -
Ben Davis, Jonathan, Wealthy. Also
about 1/2 A. of cherrys

also 2. Hartig - 20 A. S. of W. John, also

W. T. Worth - E. of W. Marmor "in hills";
many young than Dussin. 80 A. 2/6
50-60. 24" WY. 23-30. 44.
A. S. Worth - 80 A. Rain many times. As well.
The walls' first grew small fruit, raspberries first acted this.

Left for Logan at 1 pm.
From Blue Corn at Logan.
Block W 3/4 E, 1/4 of
 dout (other) in roa.
Same in tubs.
I drove 2/4 acm, valley of
Casson, siding up the valley
on W side, to map Terrace.
The big Logan Terrace (Exide)
in broken viree, toward
S end, up also breaks and
westward, as if crooked.
Also many bad terraces on
W side of river, yellow
from everywhere covers
these terraces.

I returned to Logan at 4:45 pm.
I went to look up well digger, David Laysham
and Lowery Woodlands, but
found within at home.

Left Logan at 5:58 pm. for
Woodbine. Put up at
Hotel. Phone to
Kinney, not at home.

Decided names of Theodore
Warren and Ed. Hootton
at Woodbine, well digger.
Interview Mr. Theodore
Warren as follows.
Mr. Theodore Warren, Waltham.

This is usual section in terrain. Ordinarily section for wells.

- Yellow clay
  - 25-40

- Blue-gray clay 4-10
- Blue sand, very fine sand (for bin for 60%)
- Green sand, very fine sand (for bin for 60%)
- Coarse silt, yellow

Sometimes striate (hard sand)
Sometimes muddy, or blue clay

Lime

Usually stop in sand.
Run from 45 to 75 ft.
3x4 steel piling.

In south part, the sand layers thicker or come ground at bottom.

Along RR. in Waltham he strikes rock (lime stone) - usually about 25-30 ft. in flat.
This is called on flat.
In 8. part of town he strikes boulders - grey clay
There is just fine sand at bottom (known).

Mr. Warren says that sand was obtained from bed. covers about 400 to 5 miles (area of farm), uses to turn lime.
Well near Waltham indig off the Boston and Beach Hard rock - limestone (flint rock at base)
This was a dry well 70 ft. deep, but they 60, drove 35 ft.
This side of gravel pit strike water (in m) - 60 - 80 ft.

Beyond gravel there is an hill or 90 ft. (m?)

On E. side of river there is no blue clay (up to now), but water does not rise.

On W. side terrace water always rises as soon as boring is made through blue grey clay.

In hills or sudden yellow clay 22 ft.

Gray clay (lighter than on terrace)

Cinnamon soil (possibly Kansas).

This gets heavier and then comes very.
Dec 19, 1908 (Saturday)

Stains on matrix of valley floor; lense & remnants on floor.

At 1 pm one almost complete cone effect; with blue core about 1'-2' in depth; a little higher rise. Obj in cut 6'-7' & slopes 5'-6' or near.

Blue lens with many more lense.

Above & a few more.

Below 1 craters all deep.

Both are 12'-2' deep.

n. line ne. 9-81-41.

End II is an edge of bench & is about 12' & deep. Upper part is light yellow color & the rest a little bluer, with red streaky & laminators below. A few more normal.

See future & opening of younger cone.

n. side of me. 5-80-41.

End III is in yellow lens (new sample) with few more others. 12'-15' & steep.

Slopes.

This is also at edge of terrace. Possibly not, but it is now much higher than terrace. It is a narrower ridge, and not S. by road, & a end going east.

End IV is at edge of terrace 3'-8' deep (few more mollusk, many roots above. Shells. (see sample in shall) E. side (1/2 mile) n. 6-80-41.
The terrain from cut 4 to creek is fine, nearly flat, & there has evidently been much cutting done by the Picayune creeks. The cliffs between the creeks are indistinct, & the terrain not sharp, but evidently trending.

Much of the bottomland on either side of the creek will step up gradually to fast of hills, so that very much of this is evidently tillable, & is now in corn, etc.

All the terraces have fine farming surfaces.

Reached woodline at 12:30 p.m.

First dinner, v. left at 1:40 p.m. for Dundalk, (45 min. late)

The terrain of Dundalk is about 145 ft. above valley. That on which Dundalk stands in cut by creek V is irregular, but lower part of town is about 40 ft. above valley, some parts nearly 50 ft.

The terrain off ridge above woodline seems to be about 35-40 ft.
Was the trip up Soldiers
v to Brigham's grave
(leaves Woodbine) made
on Dec. 19
also to Woodbine gravel
pits.

Mrs. Z.S.

Left Rome City at 9:30 PM.
Dec. 30, 1908

Cedar Rapids for Omaha
at 1 AM.
Dec. 31, 1908 (Thur.)

 Reached Omaha at 11 AM. About
2 1/2 hours late.
Left for Council at 12 noon
(About 30 min. late)

Arrived Jan. 2 Day.
Belleview (lunch)
Well 120 yr. deep - probably
well & gravel.

Said lazy - well upper.

Good Neighbors - The man who dyed
The well at first.
(The man - Mr. Day's came from
upper fix. never well.)
This is left to describe by may.

The hill about a mile below Mapleton is just 5 1/2 ft. high.
On E. side, on bank of river.

G. J. O'Sullivan, C.C. of Caerwern.

E. F. A. 

[Hand-drawn map or diagram]

Plots 17, 15

S.W. W. X 13 W. W.

The reasons are: No position (19 ft. above level) & the top.

Ground is 40 ft. above level.

The other plot is a short name.

Hall is only a little higher.

The Kansas runs up at least 15 ft. above level of ground.

The ground is very extensive and seems to be nearly horizontal. Itextends far.

This one ground line is shown at M. W. of other.

Lay 25 ft. away.

Several large boulders over granite 4 1/2 ft. X 2 1/2 X 1 1/2 a sign 0 2 1/2 X 1 1/2.

Still further on.

This seems to lie just on ground, at least that in time of the Big granite. Both granite 3 X 2 ft.

Plane remains 50 ft. big granite a little longer.
Old S. end. The th gravel
also shows, if has limited
shells, above coarse material
almost pure concrete in center
part. Sooner finer below.

Mark structure also in

Above this 1 ft. 14 in. of
Blue clay. Then at
least 5 ft. 1 ft. 2 new prints
clay with some cobbling
in lower part.

All this is at 5 and
the fine sand from which
I got shells above

gravel.

Ther is fine sand running up at
least 5-6 ft. of white material
by our weighted line, looks dry.

Deep bed surface

Bed shells, the line of

clay from fine gravel not
from fine sand.

At lower the gravel is only
about 3 ft. deep. V. white

is a red sand, very fine

in the gravel (more

maximum to brown clay

up to here (see 15 H. end)

The wall is 55 ft. above von

both samples of mud above

from well which I called

16 really not third strata

on top of it.

Photos 11 x 12 look S. across

terrace.

The terrace is 65 ft. above

now.
The road is nearly a level
with black of river.
The flat part near depot
is about 5 ft. lower than
banks of river.
The RK is about 6 or 2 ft.
higher than flat.
The stream on third bank
is 6 ft. above flat (60 ft.
above PR) and the tunnel
above, tunnel days, is about
85 ft.
They strike gravel everywhere
on the cantuau tunnel.
Mr. Day Sparks of Belvedere
Tunnel S. of cantuau - where
Belvedere turn
Mr. Day's house in 140 ft.
from flat.

(Saw Mr. Day some of the
bluff pictures - pictures)

Mr. Zany
On Belvedere Road (this more)
38 ft. deep thin &
gravel! Mr. Oph. Bisbee's
service runs - about 125 or 30 ft
yellow clay - & some blue clay
before gravel.
Below the gravel line (thick
clay), at Ordway's ing no. 15
about 4 to 5 ft. above
lawn blue clay - 2-3 &
y in front went from 55
ft. with shade & lines 120
in. more. - All hawthorn
About 2 1/2 mi. N
2 1/2 A. (first water 2 1/2 ft
blue clay)
Knew ran from 3 to 25
4 - even 50 4
gravel below it
2 - water
If no gravel - no water
+ hand pump next

Onikutna grown in main trench (ca. 58 ft)
& 7 ft to main
Fine blue clay (light)
above main gravel
Twice out of 3 times
if he doesn't the water
yet water.
The yellow clay (clays) near
Blue house 2 or 3 ft with
iron tube in indication
that she is getting close

to 12 water which is just
below. To get to it-
run thing 30 & 40 ft of
yellow stuff, with yellow
tighten strake,
Fine small shell in
both rusty tube layer
(blue clay) & yellow clay.

On Carina,
on the ridge
rare 124 mm from 1st
7 main gravel
about 3 ft of blue clay
above gravel
7 ft. pipe water bottom, 90 ft.
Call yellow to this
On his own time near
blue form (a little on
blue tennis)
At John Arden place [White Cemetery]

in beach

20 ft or 15 ft

20 more and grade about 37-40 ft.

Blue joint clay above

= 12 ft.

This is at 7 1/2 ft

beach not in it.

Mr. David's well

at Will Day's about a hill is 45 ft

well 13 3/4 ft deep.

on other side near

Blue clay 36 1/4 ft

above sand gravel.

Mr. David's well

92 ft. - sand

went into sand and gravel

at 90 ft.

at 22 ft M. Cowen
tilth trench (20 ft lower) he went down about 75 in 80 ft and

found no gravel ran into limestone

(Miss Burton)

about 36 ft. to first water

12 water in a joint
day light color

a sort of light sandy color

Mr. David Tacy.

(Suez-Report)
Part wells down at Dunlap 2 in water (only 2 ft water)  
At Dunlap no gravel in 5 ft of soil  
In New part of wood bin no joint water, no gravel.  
The sheet water (me grunt) runs in April  
Sometimes very it in a few wks,  
At Dunlap (now in),  
your gravel about 65 ft deep.  

This is about 6 miles  
SE of Jordan creek  
(On Ward Hutchins place.)  
Also one fine 'line'  
(Form line) in center  
River 3 ft water  
50 yd x 30 ft  
Below tree.
At Mapleton winter well digger W.M. Osborne.
In upper part is yellow clay—about 62 ft. in upper hard, about 9 ft.
If this is sound some fine runs about 9 ft.
Then gravelly but runs want things.
On bottom at depth about 20 ft. of black mud then a hard layer.
Some very 'dry' sand about 42 ft. to sand.
Always fine sand at 41 to 42 ft.

Drayer—sometimes 7 or 8 ft. flat.
Lime runs in about 11 ft. never club well.

Jan 1, 1909
Rural McLean lost his cow.
On the farm in S.W., about 150 ft. or more above county.
Volume very large Kam.
Above wiggles (unusually gone) now.

Mrs. Mc says he found one brisk on farm.
It's his run and one side where he was working.
To find—Remes of plowing?
No bones or teeth found.
been from about 12 ft. deep.

Heavy clay with some

lenses underlith.

He says whole basins

run in waves.

He also says that actually

in the ground there were "new

downholes" and "permanent".

Evidently this is some 8

down layer (ground) at

pit 15 Constant

This first in in 1894-95

Returns at 8:30 am.

Train train for 7 min at

9:15 am.
Photos 2, 3, 24

Photos 25826, 26226 -from Friday

Looked in

The 1 and 2 meter bar 35 ft

above bottom, valued 8

ft of sand, with some

gravel in. Kaama sand above

with white lime; some

fragments of shells (Sphenia).

but not identifiable testing

Kaama about 2-4 ft.

In 6 th to 1 ft later lime

layer the fine sand is red

(oxidized)

Photos 27, 28 - looking 5 on June

21/22

Kaama sand.
May 27, Croft's Bluff

Get much grade new dumps above in a thick (10-15 ft?) of reddish clay, v. close above.

180 ft. above bottom and 22—Dec. 3-82-44 S.

Yellow loose—fines on same. All the rocks along time here. Laminated below. Yellow with bluish strand below.

On.

V 14—60 min. 15/16 mm.

Bench=170 above bottom.

Note: Pit above 22 where old Eldon aff. in rock, there is some kansa in the wood, along banks. are along inner face of big current in col. up below. From the yellows, kansa forms come down to foot of clay or to rock. Print on main face of cliffs. The kansa at foot forms bench on which rock runs.
There are springs, some fair, below Loon and Rapunzel.

Met Harvey C. E. on train, from Duluth.

Want wild flowers for cultivation:

- Anemone
- Aster, stilt
- Cornflower
- Phlox
- Phlox, annual
- Poinsettia
- Primrose
- Phlox (sent me bucket in May, 1909)

Went out to Chas. Holmes' place for night.

Apply to John S. Ordway for records of cotton, sales. Castanea, In.
Jan 2, 1907

Examining gene.

No. 1. Maple gene (planted
in Spring of 1865. (seed).
Cultivated in ordinary form.
The walnuts in this gene were filled
in earth, not much later
about 6 in. of soft mulch in open,
12-17 in. in dain
In main gene two months not planted
two 8-15 inches (most 12-14),
after [like] Vermont. Ratio success,
Sorbus americana. Enlarge esp. kent
Rhus occidentals. Micrathena glabra
A [thin] leaf mulch is develop

Walnuts ≈ 4.5 cm (or = 0.005 cm)
8-15 cm. Five trees

No. 2. Walnut - (seed)

Spring of 1867. (The walnuts collected
in fall, covered with dirt. Planted
with a few of boards - layer of 2.5
thick (15-14 cm of board + 4 in
carol + 10 to 11 in of walnut.)
no. 3 - Mostly walnut - some cottonwood (older)

(Cottonwood along the roads in sec. 25 are oldest - planted in early 60's - used small seedlings from sand bars)

In grove no. 3 the cottonwood were planted in spring of 1866.

no. 4 - all walnut - about 1869 (from vine)
No. 5. Soft Maple — about 1870
Seed. (The seed was collected on the Little Sioux.)

No. 6. All Walnut (a beaver cotton)
about 1871.
No. 7. Beginning at W. end about 275 yds. of greenash then 5. two rows are maple 7 rows are yellow locust, 15 to line of sec. 29.

In sec. 29 - N. 3 rows white pine 5 rows are green ash (greenash seed from the hill). These same rows a little over 1/2 mile in sec. 29.

E. end of same is all cottonwood extend a little over a quarter log (to a 1/2 W. of E. sec. line).

The S. row is the W. part in sec. 29 - in all 159 maple.

W. end - N. side 29 - (not shown)

Soft maple 8-12 in line, green ash

Green ash - 5'-8' in.

Walnuts - 6'-7' in.

3 rows of MP maple.

9 - 11 - green ash.

2 - 11 - walnut.

A cottonwood right in row = 23 in.

A copipalda: 7 - 11 in.

A few of the two cottons are found in line.

The rows in this part are 5 1/8 above

In row immediate

Stock run in this 5 trees are not doing as well

A row of soft maple about 25 yds. north has crown and

The N. row of walnuts go well.
The cottonwood at 5.15 PM
seen from 8 1/2 6 18 in.

About 15 rows - 5'15' after
stock "wires" here 6 times this arc
char, 6 thin rays stand
undamaged 3 1/2 6 in.
Sm. scars x many drip at

The view of this cottonwood grove
is more effective by dusk - the
latter water, worn by elephants
go so much to E. ear.

Photo 27 5 15 - today - W. y E.
also E. end cotton was

Photo 25 16 - today NW
park W. end cotton is at end
grown W. 1/2 6 ft.
Plants 21. White pine, etc. Govt.

Plants 22. White elm 13
Soft maple 31
Birch pine 26
Balsam 11
Salix alba

Plants 23. White pine 23
Asplenium 13, 18

Plants 24 + 22

Plants 25 + 28 - In C.S. Cogins
(As hamiltonii) Soft maple

Plants 25 + 26 Indian 11 ft

Windrow 11 ft. - 60

Heath 1

Noddy 12 in., 17 in., 24
S. cuneata - 4.6 in. Clarion 12

Red clover
Mulberry

Common 4 ft, 41
All x. 24-27 m.

Walters, 6-8.

1:45 Earl V. from 2, at turn just E. of Whaling.

Mr. Mitchell Vincent, E. S.

At Omana.

Judge Agnes Delator

Omana, 2.

Apply to him for true information.

Reached Omana at 10 a.m.

Put up at Mission House.

Spent afternoon in Constantine, remote view of roads.

Met Mr. J. B. P. Day there again, and together we visited Mr. Mitchell Vincent, an engineer, who is an old settler, "with Day & Wattles from a tri---? 7 if old settlers and Hale Yellow Vincent is now quite lisp but was able to talk to us freely, and promise help in evening called on Parker Hellbrook.

Not at home.
went to court home & no little plans + left at 8:13 pm.

The Coshir Island (old Whiting Ashland) is a Beauty, stately trees surround the estate of Judge W. White Pine, Balsam, etc. thrive in shelter & grow. The Walnuts near the house are the finest I have seen in this land. They are sheltered but not crowded by other trees. The Honey Locusts are also fine, showing larger trunks than usually. They are protected like Walnuts.
Left Oarhein for Minmi Valley at 8:15 am & got there at 9:30 am.

Drove to the Minmi gold camp in wagon, & left at 10:52 am (MDT) for Connors Bluffs & put up at Kedzi. Red-crowned parakeets & repacked.

Jan 3-1909

Left for Persia at 7:30 am. Day misty & promising storm.

Card 1 - n line 8 - 78-41.

from red joint clay in road & a lime gravel (small)

on bank on # side about 4 ft or 5 ft of yellow clay, with 6 ft of red joint clay.
End III is on hill side and rising N.
It is about 10 ft deep.

End IV is a small hill.
Up to 6 ft deep.
Shale 5-6 ft yellow (sample)
3 ft of blue
Then beds with iron blue
Shale.

End V runs down hill S.
On foot stuck close is only 1 foot deep.
Shale blue with thin
Shale, v. shale. Also v. shale.

End VI Blue clay beds
provide v. shale. Runs
down hill S. E. 3-5 ft deep

Notable. Marine
Limnus in a line w. maroon
coral. Shells rare abundant
w. maroon coral.
Line 58/4-6/78-41

Cut [VII] in heavy yellow blue strudy above [unclear]
Kerne? 2
blue color
with jinser [unclear]

10/4-9/78-41

Cut [VIII] in a dark [unclear]
3 blocks (long nr) small
apart, where road comes
my fire
Just [unclear] were going Wi

[Diagrams and notes]
End VIII

has been used for a sand pit, but it is evidently all gravel & rubble together, and does not show any ground except in pockets.

All along the Pecos route I saw blue louse with thin tubes, & now in a yellow louse — numa, not over 3 ft., mountain 6 or 7.

The line between the two is usually sharp & unconfounded in end VII (as the one before it).

The lower part of yellow louse is blue, very stately. Probably belongs to Kansas. The flocks are chiefly in
1909

Jan. 4

Cop's fit

Old report

Elevation of surface above sea

Of road = 25 ft.

Well is 150 yds. E. of E. line

Of road.

It is just about E. x S. E. from

fit, a little north.

The well is 65 ft. above top

of sand. The roadway about

30 ft. above road.
Next to Sandy Hollow

East just E. of valley

Photos 15+16 mm dolomitic mud

121 V 22

Ever

shark

15 FE

Dark ash

lum with shell

(see bot.)

The same dark layer attains

in west end E. rain 3 yr
day.

5 in.

6 ft. seen

ruin. See holes

mm below int heavy clay

reddish wash above onto loose yellow mantle

looking like weathered clay.

E. end of same cut, at turn

shows much more material

now like blue keen wood

seen (see sample) V fine

glue of shells - thin in all

from of 25 cm.

The clay E. of how sand tunder

a little layer of broken

shells (some Limonites)

showing wood action.
On W. side of Black Rock
River, where bridge was
burnt down. Could not
pass. Note in journal
overwashed people to
not return, except
examine it well

At Smith's Hickory, about
a half a, Kamaa above.
Also some red clay
Mr. J. S. Wattles says that added 1006.806 ft. to elevation in Hanin co. = mean guess tide near New Orleans.

The Missouri survey on Missouri co. & the overflow map are Mr. Vincent's - give credit to him.

The Hanin co. work - Mr. Wattles'.
Feb. 4th 1907
Left town City 8 1/2 15 am
Called on Mr. Gilkes
in Omaha and saw his collection.
He has much miscellaneous material - bones, teeth, implements, shells, etc. and
a part of a child mummy, green with some copper and
also a charred wood, bone tools, needles, etc.
He finds bones in Nebraska
side & caches with them.
Here he has found much material, among other things
the following clays:
Several
Unio recedens - some with parts of epidermis
11 relics - little very white bone.
Unio crassipes. One alive. Both feet
alata - with little brownish pigments
ligamentum 1, with young
ligulata - with some epidermis
Metanere (warty) 2 or 3 valves
protuberance 1 or 2, may be
U. pleural, but not likely
anodontides - one with fine
epidermis - several valves
Megalobranchias - 1 with fresh name
+ epidermis on part. 2 valves
Epistylis norma 2 or 3 primary valves
Margarita ampla, etc.
Some of the shells are perforated
artificially) at umbo,
Some appear like a crown
some were across with
notches for handles.
Zoöphyte made of shells, with
as a small fish it can in
the collection.
The lime, scales, sand, etc.
are (as says) tempered chalk
Throw.
On Jan. 17, 1908, he found a
fragment of Unio in the
Long's Hill mound which
plains only surface region will
two ridges (or hillocks) evidently
either Unio metanere or Unio
epistylis norma. Probably, the
latter.
On Jan. 22, 1908, he found, at
a point 50 ft. N. of center
9 my excavation, to day a depth
of 3 ft., second cone. (some
ground), shells, & clam shells.
6 of the latter I am convinced
Erode said of this alabas 6 or 7 values of this
Cashesmu
My other says some
on top hill is like
other mounds in these
parts,

N.R. Newlin & Co,
Cement Kilns, the
Mo. Valley

Jan. 5
Chloride Reservoir
The

Terrace is named to divide

15
by alkali

erode

Just below Medlow Lake
the valley clay, RR is very
narrow, could be only half a mile
less evidently. This ridge
gradually S. of it to the
edge of terrace is just
edge of wagon road.
Above lake the terrace
edge is close to shore all
along E. side.
Feb. 4 - lecture at Brussels
Feb. 5 - lecture at Farmers' Institute at Ute on "What shall we do with our bluff?"
Feb. 6 - Reaches Spirit Lake
Feb. 7 - Visits Salmon Lake
Devin Jan. Wed. 4/1889
In long cut E. of Odelin
along Cty Rd. I saw
much down red ochre (or yellow
ochre) cortex with 1-2 ft
of black burnt soil, blending
downward. (See samples)
In places brown or
magneta just below
black soil.
The deepest section found
9 ft. (at 1 mi. S. S. W. of Odelin.) Stones
in man water 5-8 ft
Kansan — —
Slate gray shale
and probably 18 ft. hard.
In places slatey shale
looks like Pre-Kansan.
Kauai is blue with much
fjords, sometimes quite sharp, e. g. in
the line between Lihou.
Kauai is sometimes
broad, sometimes
narrow, sometimes
broad.
How are trees—_luau_
_Makahna_—_leuven_—_leuven_?
In _Kauai_ there is
_Olewoin_ but I
think _gloos_, there is a
_truncate_ ridge
(_is this a Kauai ridge?_).
J. McDade  
Nashua,  
Ia.
<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Mine</th>
<th>Buckett</th>
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<tr>
<td>Mar. 1, 1909</td>
<td>Cab Iowa City to City Ferries</td>
<td>$2.50</td>
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<td>Iowa City to City Ferries</td>
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<tr>
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<td>Transfer &quot; &quot;</td>
<td>$0.50</td>
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<td></td>
<td>RR to Oelwein</td>
<td>$7.08</td>
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<td>Breakfast - Cab Ferries</td>
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<td>Transfer - Oelwein</td>
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<td></td>
<td>Hotel &quot; &quot;</td>
<td>$1.50</td>
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<td>RR to New Hampton</td>
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<td>Transfer &quot; &quot;</td>
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<td></td>
<td>RR to Charles City</td>
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<td></td>
<td>Meals &quot; &quot;</td>
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<td>RR to Nashua</td>
<td>$0.24</td>
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<tr>
<td></td>
<td>Hotel &quot; &quot;</td>
<td>$1.40</td>
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<td></td>
<td>RR to Waterloo 37 mi.</td>
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<td>Transfer (25)</td>
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<td>RR to Marshallton 48 mi.</td>
<td>$0.84</td>
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<tr>
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<td>Marshallton to C. Pafus 52 mi.</td>
<td>$0.91</td>
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<tr>
<td></td>
<td>C. Pafus to New York 8 mi.</td>
<td>$0.86</td>
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<tr>
<td></td>
<td>New York to Mercers Ferry</td>
<td></td>
<td></td>
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</tbody>
</table>

Total exp. $12.80

\[ \text{Total} = 13.01 - 12.80 = 0.21 \]

\[ \text{Total} = \$7.50 + 12.80 = 13.30 \]

\[ \text{Total} = \$13.12 - 13.12 = 0.00 \]

\[ \text{Total} = \$12.80 - 12.80 = 0.00 \]

\[ \text{Total} = \$12.80 - 12.80 = 0.00 \]

\[ \text{Total} = \$12.80 - 12.80 = 0.00 \]
May 1, 1909

Car. Iowa City - Buxton $ .25
Fare to Iowa City - 2 - $ 1.30 c.
Transfer - Cedar Rapids $.50 c.
RK to Selwyn - 2 - $ 2.16
Burlingt. C.R. - 2 - $ .80
Transfer - Selwyn $.50
Hotel - $ 1.80

RK to New Hampton - 2 from 1.34
Hotel - 7.85
RK to Charles City 30 m. 2 x 60 = $ 1.22
Charles City to Nashua - 11 m. 2 x .22 = $.44

L. M. Littley New Hampton produce 2.75 $ 7.08
3 mm

1 - 1865 - Soxy Maple
2 - 1867 - Walnut
3 - 1866 - Cottonwood, 1 walnut late
4 - 1869 - Mostly walnut
5 - 1870 - Soxy Maple
6 - 1871 - Walnut
7 -

$ 19.34
$ 7.65
$ 3.73
$ 3.73

Nashua to Waterloo 37
Waterloo to Marshallton 48
Marshallton to Buxton 69
154
2.08
15

New Hampton 3.00
Nashua 2.00
Transfer - 2.50
The garden is so surrounded
that it can be irrigated.
Mr. J. Goodale of Wilford owns little
much of the land near.

Week 35 lbs. $3 per week - teas, baking
butter, sugar, meat, bread & rice etc.
Cottage 7 room $45 per year
Mr. Smith's estate - 3 room - $90 per year.
Dec. 30 - Fare to C. B. N. M. 45
31 - 1st dinner 5.66
Sleep 2nd blankets 2.85
Fare to Council Bluffs .44
Council meal .35
Fare to Mapleola 1.13
Jan. 1, 1909 - Luna Hotel 1.25, 1.50 2.75
Fare to Council Bluffs 2.25
Jan. 2 - Fare to Council Bluffs 1.31
Jan. 2 - Monoa Hotel Fare to Mo. Valley 1.77
Photo rating 1.60
Fare to Co. Bluffs 3.43
Jan. 3 - Co. Bluffs Hotel 1.61
Council to RR to Peru 1.71
Peru - living 1.25 limit 1.50
Fare to Co. Bluffs 1.61
council 2.35
RR Fare to Mo. Valley 1.43
Jan. 4 - Mo. Valley - Hotel living Photo 3.10
Jan. 16 - 1909
RR, Mo. Valley to Council Bluffs 5.24
Total 29.39

Jan. 16 - 1909
Fare to Mo. Valley 3.00
So. Omaha - 2 meals 1.50
Council 1.35
Omaha - 1 meal 1.35
RR to Mo. Valley 6.6
Dec. 17-1906

[Handwritten entries for expenses and receipts]

Total exp. $25.56

Receipts
- Ute $43.27

$17.71

[Further handwritten entries and calculations]
Feb 4

Tours to Co. Buff
Lunch 30, John 5

Comp. -

R.W. Co. Buff to Utica 1.36
R.W. O'Donnell & Bruno 1.42

Lunch. Spencer 5
R. W. to Trumansville 0.68

Hotel, Trumansville 0.50

R.W. to Co. Buff 1.00

Lunch. Aphe 0.35

R. W. to Utica 1.00

New York, R.W. to Silly 1.47

Silly, Hotel, Conflagrations 0.55

R.W. to Grand Trunk 1.68

Supper, S. 11, 1, 1, costs 25 0.50

Team, Mrs. Trumansville, Frank, Frank 1.50

Frank, Frank 1.50

Wildeon, 25.56

$5.24

C.W. Drew, Winona Valley

Lowery, Moreland, Logan, Jr.

Daisy, Leysham, Logan, Jr.

Woodlawn

Theodore Weare

Ed. Hoelton

Miss Hotel, Mrs. Valley

Henry C. Herchard

Mrs. Ella Barns Herchard

Mrs. Clara Perkins, English

Mrs. Stearn - Wright -