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The Journal & Notes of our.

YELLOWSTONE TRIP

1897.

Begun at New York June 1st 1897.
Finished at New York Sept. 17th 1897

by Ernest T. Seton
9123 Fifth Avenue N. Y.
& Sloat Hall. Tappan. N. Y.

Plan for 1897

Get a series of photos of leaves in foreground
especially of forest trees

" " birds nests

" " boughs for foreground use

" " stones & herbage

" " tracks of animals

" " dung " "

" Rocky mountain landscape for wolf chase
film

" Plain landscape for my Buffalo picture

" material & photos for Raggedy
Redruff.

" for 6 large & 40 small pictures for
Mrs Wright

" measurement of all large game

The first bird in this is the 2176
" a mammal -- 700

2

Measurements of Mammals

In measuring mammals the following are desired: -

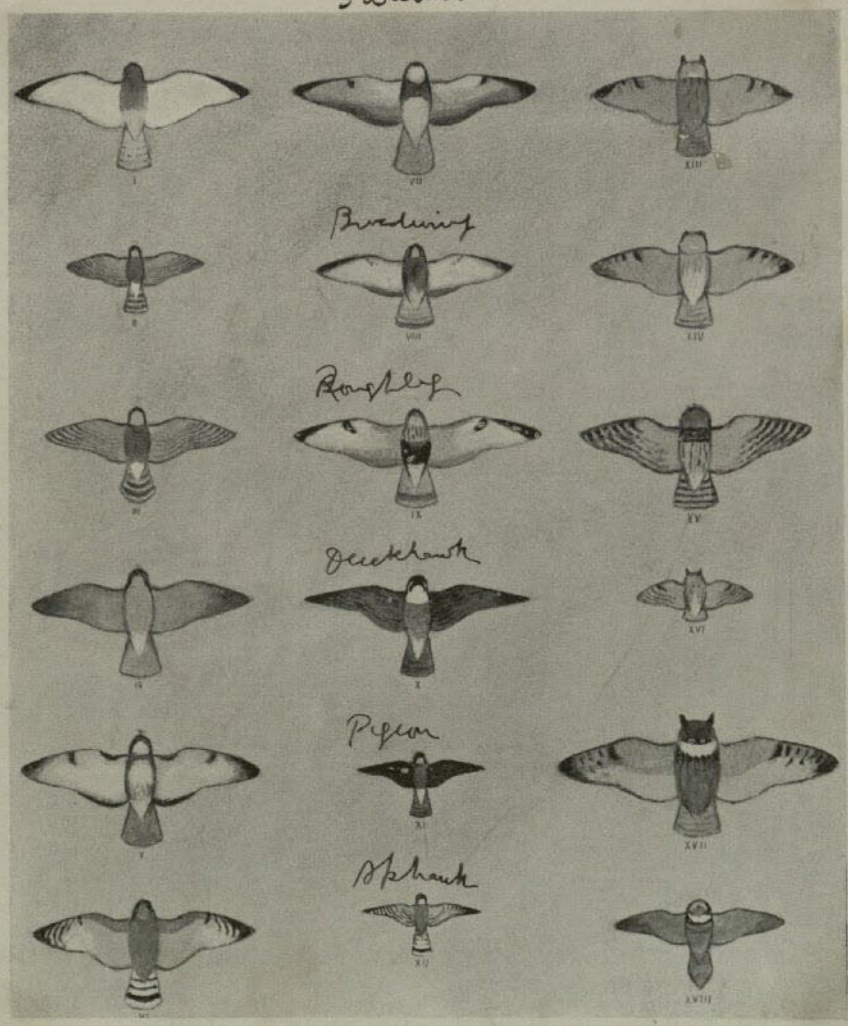
Length tip of snout to ischium
" " " " tip of bone in tail
" " " " " hair of "
" manubrium to ischium
" of tail bone
" " " fur
Height at shoulder - actual
" " " apparent (fur)
" " rump actual . . apparent
" " Breast from ground -
H " " Breast from ground -

Length of head snout to occiput
" " snout to inner corn of eye -
" " " ~~tip of ear at rest~~
" " " ~~nearest point of ear~~
width between eyes -
" across ears at base
length of ears ruffs if any,
Be " " eyes.
Girth of head ~~about~~ just before ears.
" " chest loose over fur -
" " neck in middle over fur
Width of shoulder actual apparent.
" " fore foot of hind foot.
Height from elbow to ground
" " calcaneum " "
" "
Length from calcaneum to tip of longest claw

Note.
My sketch portfolios are 8 X 11 inches
" photo mounts " 7 X 9 "
" small sketch MOW . 8 3/4 X 11 about (12 X 16)?
" full page "

Swainson

Marsh Hawk
Sharpshin
Cooper
Goshawk
Redtail
Redshouldered



Lgear Owl
Shortear
Barred
Screech
Cat
Hawk Owl

Beginning of Yellowstone Journal 1897

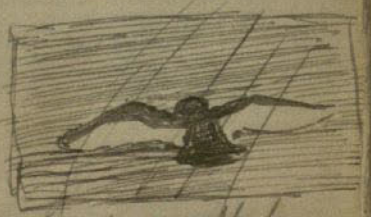
June 2nd Wednesday.

Left N.Y. by Erie R.R. 23rd St Ferry 1.55 p.m. Train.
found A. Van Keuren the Rotary from Hoffe awaiting us with tickets & sign.

June 3rd. Contour of country N.J. N.Y. Pa. O. Ind. Ill.
Saw in the West plenty of Blackbirds Redwings meadowlarks
Redheaded woodpeckers & mourning doves, other species of
birds very scarce.

arrived in Chicago at Polk St depot at 5 p.m.
Met Uncle W. Palmer at station - went at once to his home
Ellis ave cor 42nd St (N. Kirkenbaker).

June 4th Saw Scope S.T. in a.m. at 142 Monroe St. Shopped at
Montgomery Wards, Michigan Ave.



Redheaded woodpecker

10

June 5th Sat. Lunched with G.S.T.
Left Chicago at 10.17 a.m. for C. M. & St Paul.

June 6th Sun. Reached West Salem at 6.15 a.m.
Where was met by Hamlin Garland, who showed us about.

Left the Coulees at 10 a.m. reached St Paul at 2
Put up at Metropolitan Hotel.

June 7 Mon.
Left St Paul at 4.30 p.m. on Northern Pacific
On leaving Minneapolis we heard a new (Western) lark
Just Meadow Lark - singing as of old -
They were very numerous from that time
on.

June 8th Sunday - Crossed the Missouri at Bismark -

At Mandan saw some fine Indian war bonnets - and a Shoulder mounted like a horned owl

All ~~day~~ morning fog on rolling prairie Twice saw the old grass set on fire by sparks from our engine.

Meadowlarks the characteristic birds. o ev, when musical

About noon we entered the "Badlands" the most bewilderingly beautiful & fantastic formation I ever saw - I now realize what was meant by the color-exaggeration of many well known artists, and as soon as possible will attempt my own exaggeration of these ~~wonderful~~ hues.

At Glendive we came to the Yellowstone & then followed the river, with bad lands on either side -

June 9th Monday - Reached Livingstone early this morning - Mrs in Bluher were laid off on siding till daylight. breakfasted at the Albemarle - This is our first glimpse


Gallatin Range
1st glimpse of Park scenery
June 9. 1897


Gallatin Range
Livingston June 9th

of the mountains - made a sketch of the Entrance
Gateway of the Park with the Electric
peak in the distance.

At Chicago we were caught to conform
to the custom of the west by buying broad brim
white felt hats - We have seen none
of these until today - But it turned
out that the wearer was a New York
dude -

So far we have seen no game of any
kind large or small, excepting a
prairie chicken -

We left ~~Cinnabar~~ Livingston at 8.30 by train
reached Cinnabar at 10.30 (51 miles)
where we ~~stayed~~ left our baggage (4.50 cart + 1.50
trunks) to Mammoth Hot Springs
where we ~~stayed~~ Capt Anderson, Lieut
Young, Mr Dean, Mr Cramer & other
In pm. took long walk & saw a lot
of curious springs —

Saw a magpie, a Ruby crowned Blue bird
several Robins Vesperspiza, meadowlarks
Robbins Osprey nest on
Gardiner River (see sketch opp June 14)

Views - from back of Mam Hot Hole. 9 June 97

Wild Animals Of Yellowstone
RK

Yanceys

Friday June 11th Left Hotel at Mammoth Hot Springs by military wagon provided by Capt Anderson & Lieut Young. Mrs E. Hope came with us.

The drive is 20 miles eastward following the Canyon of the Gardiner River. About halfway, among the Parks we saw a small band of Antilope, see below a long way off. Were spoken of while disappearing as they turned. We came on one Antilope lying down at 40 yards

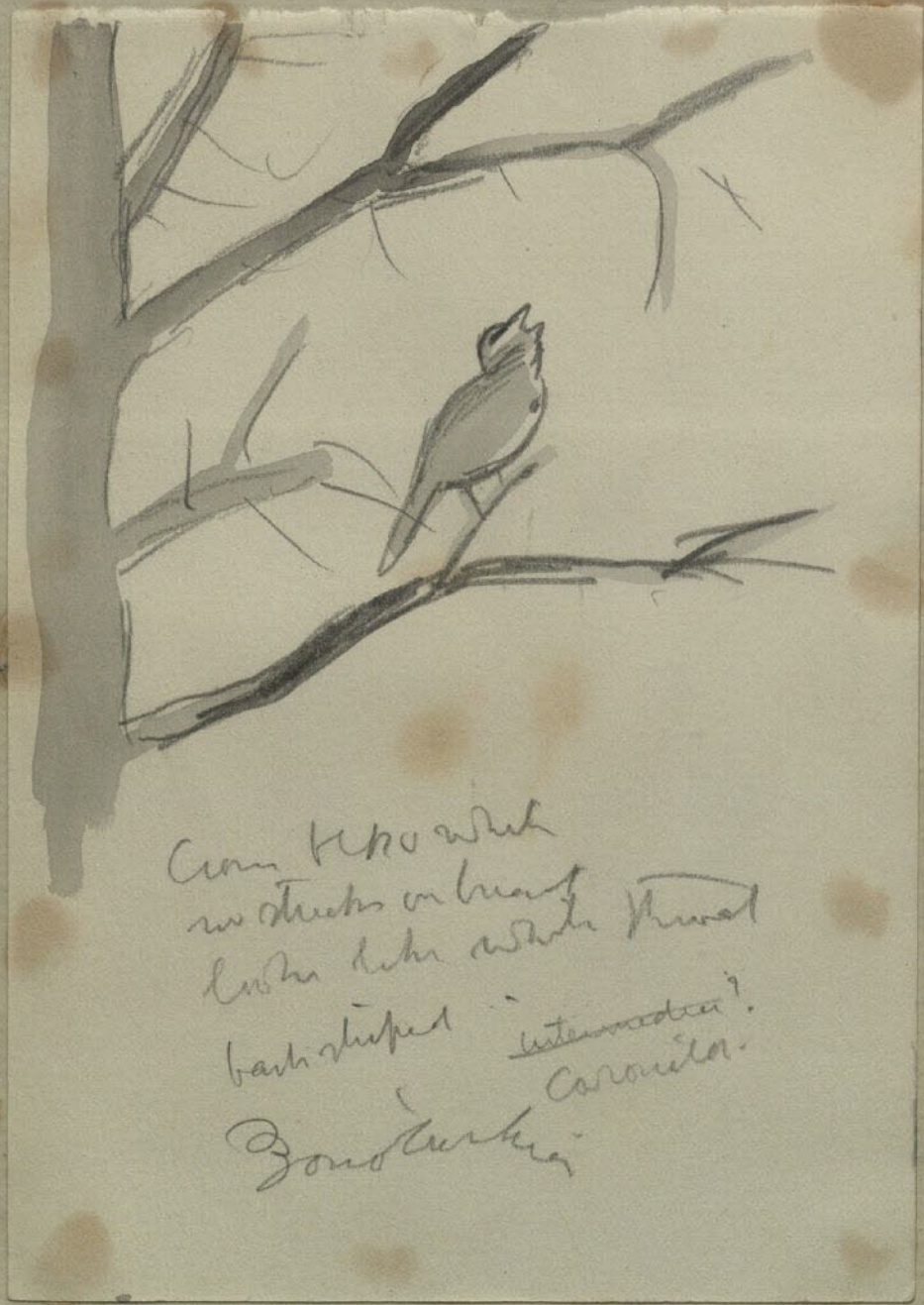
Groundhogs (or Woodchucks) Rabbits Spermophiles (Groundsquirrels) Chipmunks Sheep Wolves were abundant.

Arrived at Yanceys abt 12.30 midday. arranged for board & lodgings at $5.00 a week each extra for horses & laundry.

Worked all p.m. at cleaning the Shanty.

After dinner Hope & I went out on horses to the Beaver pond. Saw 4 Beaver, at work on the dam. Saw a faraway band of Antelope

The meadowlarks sang glorious, Rocky Mt Bluebirds abounded and ~~[illegible]~~ torrents glorious – Robins Chippies, Vireos, and Pelitwees


Crown black
no streaks on breast
bright white throat
back striped
intermedia?
Coronata.
Bonaparte

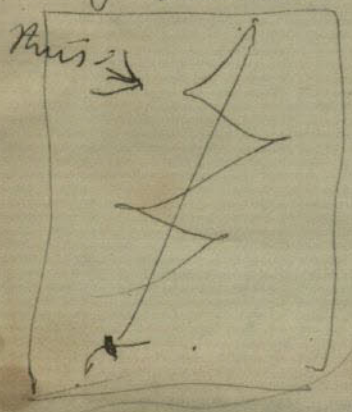
At night ~~after~~ supper, Mates called from her room "What is that coming down the trail", we looked out & saw 2 female Black tailed Deer. They examined the hammock & walked around our front door, but the dog rushed out & drove them off. They lingered about on the road in sight for some time

They looked grayish white with black ears & face. Their general color matches the poplar trunks or the dead barkless pines.

At night a skunk came on the front stoop. He is a regular visitor

~~Sat~~

Sat June 12. Went in early morning to the poplar grove beside the shanty. Saw numbers of thrashing birds. They would make a peculiar buzz. buzz with the wings I think, then shoot up 50 feet in air take a rocket & descend by easy sweeps to the perch.



This seems bet.

Noted ~~also~~ very, Raven Bonasa Warbling Vireo.

All this went after breakfast with Hope on horseback – We went northward down the canon – Saw the antelope & found the 2 kids & one of them

Tom Dailey

John Yancey

Before we found them, Hope brought the mother close to by simulating the cry of the little ones -

We saw in abundance. Clarks Crow, Bullocks Oriole - Meadowlarks - Warbling Vireo, Red Bellied Kingbirds "Pipit Hawk" Flycatchers, Yellow warblers - with warblers at noon our flight came, thank to Mr & Mrs W. Forsyth & Cat Indeed Mother In every want out with N.A.C. heard many new birds

At night the skunk came as usual.

Saw a bean fowl with many cuttings of trees

June. 13 June - Hope went back to Gardiner - worked in morning tying up our shanty.
Just back of the barn found a nest of Woodchucks in the rocks. The feathers not color of the animal exactly matched the rocks.

In my N.A.C. 887 887T. went on horses to the hot Spring last - en route we found nest & eggs of Vesper or Bay Sparrow

Saw two black Kingbirds on the flat

At the Spring the ladies left me - I went on up the hill & came on a little prairie with

An antelope following by her kid - as soon as I approached the kid squatted & the mother made off - bleating from time to time a querulous appeal -

I rode up to the little one - it lay perfectly still not even winking - I stretched it as it lay & noted that the color of the adult antelope is wholly directive & that of the young wholly protective or deceptive - For the little thing lay there like a brown stone & showed but little resemblance to the adult colors.

The adult is starring white & purplish tan, conspicuous as far as the eye can reach.

This is pre-eminently an elk country though so far we have seen none - Everywhere we find elk signs facing the ground - and the cast off antlers litter the country - I saw 8 within 100 yards - One is never out of sight of 2 or 3, and the photographer at Mammoth Hot Springs has made a fence of some 60 large pairs picked up in the neighborhood -

Orbey nest

Mon 14 June. Went out in morning to the slide rock north where the woodchucks or Rock Chucks abound. 8957. Fotoed several - & I caught one alive - sketched & fotoed it.

Saw many young & 2 or 4 adults. They abound in this country.

At night set bot trap for skunk

Game is so carefully preserved in the Park that all the wolves have left -

Dave Roberts, in his peculiar tones remarked "that that young feller has a cameo - he's fen the cast". "Cameo" he afterwards explained meant Kodak.

A very hot close thundery day - mosquitoes very troublesome

The earlier Bluebirds in the eaves of our cabin about ready to fly.

Song Sparrow at Beam dam

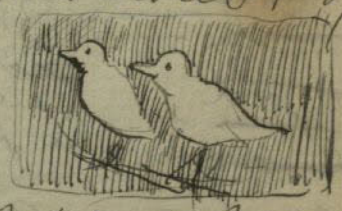
Skunk was shot last night.
Our first night in the Cabin

Tues 15 June. Sketched all day. While setting I saw a Coyote saunter up a trail, the first I have yet seen.

At the Beam pond back of the house. I counted 116 poplar stumps fresh cut in one place - and saw about 6 such places - the largest tree cut was about 8 inches through

26

Wednesday 16 June. Rain all day. The Robin is here as elsewhere the wet-weather bird. Dogens came out on the grass by the cabin to enjoy the showers. Among them two young albinos. They were pure taffy white everywhere - & were with their mother an ordinary bird - I was several times within a few feet of them so there is no doubt of their identity.



Yesterday I saw a couple of Sparrowhawks pursuing a Red tail Bunting.

Today we have staying here Moody the guide - Miller the old prospector

Moody was out with Roosevelt & says he was the best shot he ever went out with. Game never got away from him -

Heard & saw 2 Horned Owls tonight

At Beaver pond saw a Mallard ♀ & heard repeatedly a Sora - Juncos common -

26 28

Mammals of Park.

Elk. 20.000
Buffalo 21
Moose 200
Blacktail [illegible] thought [illegible]
Whitetail a few are said to be [illegible]
Sheep. a few about Jackson's garden
Antelope common on open plains.
Grizzly common
Black Bear v common
Cougar common
Bobcat v ab.
Skunk not rare
Coon ?
Mink. [illegible] rare
Otter not common
Weasel a few but rarely seen
Lynx
Badger abundant
Otter common
Wolf v. rare, heard you & saw yo on Rewalt flat
Coyote com
Chipmunk ab. in open forest not in timber
Squirrel
Woodchuck seen & fr com in woods
Beaver on Elephant ab in [illegible]
Porcupine ab in [illegible]
Muskrat ab "

Rocky Mt. Rabbit com
Pika Rabbit com in places. Below canada [illegible]
Rock chuck. v ab in places.
Prairie dog ? no
Soft. gray v. ab
striped. not rare
Fremont Squirrel v ab
Cap Chipmunk v ab
Chipmunk v ab
Fly squirrel - [illegible]
Deermouse v ab
Gopher - com
Pocket mouse ab Thermopolis [illegible]

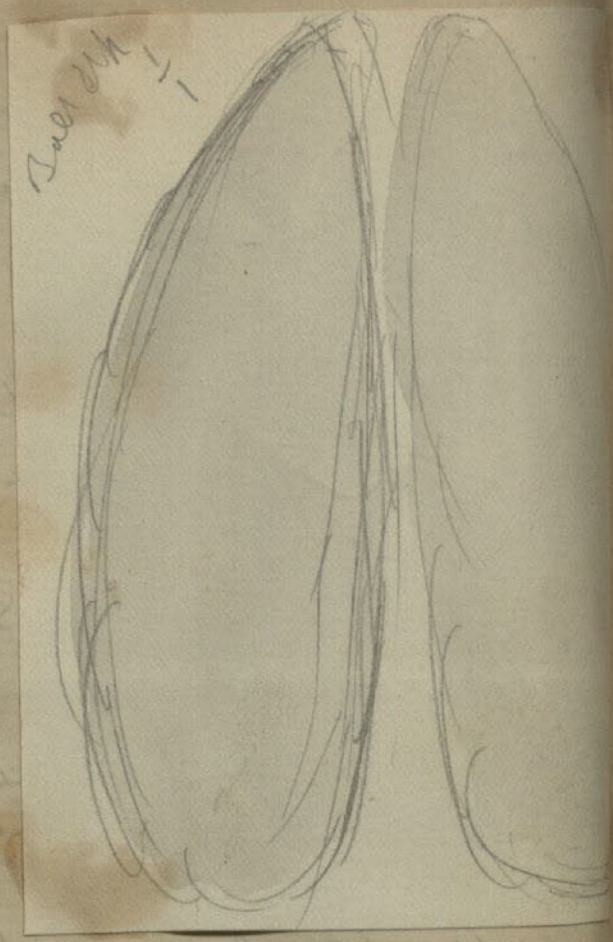
A list of the Birds observed at Yancey's.

~~Brown~~ com
~~Sparrow Hawk~~ v at
~~Red tail Hawk~~ v at
~~Meadow lark~~ v at
~~Cowbird~~ ? not rare
~~Brewer Blackbird~~ v at
~~Bay Sparrow~~ com
~~Hudson Chickadee~~ ? v at
~~Blue Grosbeak~~ com
~~Pewee~~ v at
~~Frankling Gull~~ ?
~~Arctic Bluebird~~ v at
~~Robin~~ v at
~~Chipping~~ com
~~Pink sided Junco~~ v at
~~Crown Sparrow~~ v at
~~Maryland Yellowthroat~~ v at
~~Veery~~ v at
~~Rose breast~~ v at
~~Flicker~~ v at
~~Sharp shinned Hawk~~ com
~~Killdeer~~ com ~~not rare~~
~~Spotted Sandpiper~~ com
~~Crow~~
~~Magpie~~ com
~~Chickadee~~ v at
~~Horned Lark~~ com
~~Barn Swallow~~ v at
~~Cliff Swallow~~ v at
~~White " " v at~~
~~Osprey~~ com on lake
~~Vesper Sparrow~~ v at
~~Hermit Thrush~~ ~~does not come July~~
~~Warbling Vireo~~ com

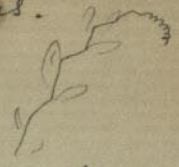
~~Green Winged Teal~~ at
~~Mallard~~ ~~com~~
~~Sora~~ at
~~Dipper~~ at
~~Kingfisher~~ ~~not common~~ com
~~Rifle bird~~ com
~~Hooper Sparrow~~ v at
~~Hairy Woodpecker~~ ~~com~~
~~Pewee~~
~~Dove~~ not rare
~~Hairy Vireo~~
~~Swainson Hawk~~ at
~~Bonaparte~~ " (A E Brown)
~~Snipe~~ com
~~Dove~~
~~Stellers Jay~~ com
~~White Throat~~ com
~~Brown headed Woodpecker~~ (seen a couple of times)
~~Pelican~~ c 250 at N lake
~~Merganser~~ com
~~Canada Goose~~ com breeding
~~Blue Crane~~ " "
~~Mallard~~ ? " "
~~Buffle Head~~ " "
~~Swans~~ reported at Swan Lake.
~~Caspian Tern~~ Lake com
~~2 gulls~~ Bonaparte & ~~Franklin~~ delicate com
~~Kingbird~~ ~~not com~~
~~Red headed Woodpecker~~ not com
~~Meadow Lark~~ com
~~Blackbird~~ not rare
~~Black Vulture~~
~~Pine Grosbeak~~
~~Dark weather~~ etc.
~~Scaup~~
~~Bittern~~

17 June Thursday. Dull rainy day with snow
went in morning east. Identified Brewers
grakle as the common one here nesting
I noticed the males have yellow eyes, the
females black. The males utterd
a peculiar little chirrup as well as
the "creek" when I approached the nest.
In afternoon went with
SS to the Yellowstone
bridge – saw a
Tanager (Ludovicia) in song – also
saw clarks crow, Boy Sparrow
Redtail, plump Bluebirds & Robins
& saw & heard a Blue grouse

at night I saw a Deer in the woods
back of the cabin tried to sketch it
but it was too much –

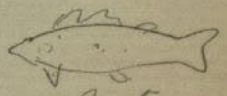


Friday 18 June. Mail in today - including the lens.

Short look round to pass  Solomon Creek 

with lens label on fishing spot - it deserves it.

In morning went fishing with one Mr Anderson of Cork city, his daughter Lizzie - & sister in law Mrs Macdonald

They caught a dozen trout, the largest 3 lb - 

They are of two kinds - an orange flushed & a white

Found young Sopher half grown (i.e. Groundsquirrel)

In evening went on horseback (SS. ES. & Dave Roberts)

Saw two antelope among the sage

Little Lizzie Anderson calls cowbirds.
Cowboy birds.

Sat. 19 June - Dull day - fixed darkroom in morning -
In p.m. painted indoors, view of Mr Shanty -
after supper took a walk - Saw Sparrow Hawk

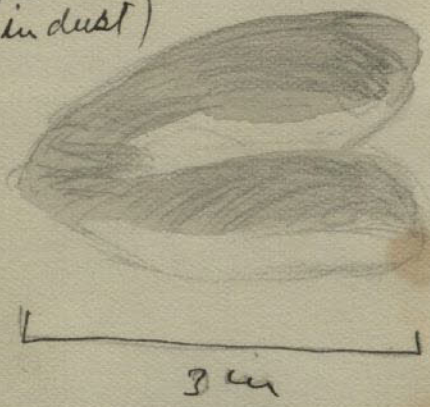
pursued by meadow larks.

at nest of Vesper Sparrow (of 15th June)
found male died entangled in a snare -

Private .... of Soda Butte told a strange tale of a
Crossfox.

34

Black-tail Deer (in dust)



Early Summer

Late Spring

Winter

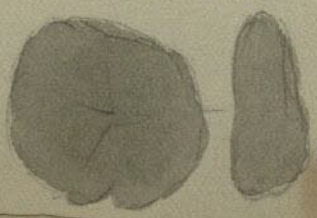
Grass.

bark + grass

bark

Elk droppings ½

(Grass very old).



Sun. 20 June - In morning sketched on Hill north - 2 to 5 pm - went with C.C. & Dave Roberts to Town Falls on way back saw 1 antelope away up on the highlands - & later saw a band of about 50 Elk in a hollow - in the timber - I made a couple of sketches - While doing so chipmunks came about close to me -

Suddenly the elk seemed to scent us. They rose up & started off with a tremendous clattering squealing & crashing -

I sketched Town Falls - & the bridge across Town Creek -

We saw numerous Buffalo skulls. And Dave Roberts remembers when there animals abounded here in every valley.

The Red tail Hawk is common here - its distinctive mark in flight is the red tail etc

Sparrow hawks is known by its long tail

At night a skunk came about the house - I set the lot traps - for all (6) stood about at 30 yards & watched him deliberately go in -

The tremendous tail of this animal is rarely rendered in pictures.

In every I sketched droppings of Elk. Its size form & composition varies with the season.

Heard Hermit Thrushes in the upland pines -

Chas B.

Dr Penrose & Mr Dallgreen arrived

Mon. 21 June - Skunk escaped last night -
Col. Young & Mr A E Brown arrived - "

Tues 22 June - Col Young & A E Brown left this a.m.
Caught another skunk this evening -

Wed. 23 June - Noticed skunk this morning -
went with B.S. to Yellowstone
northward found the Elk dead (last
winter) - Saw & skeletonized a Coyote.
Caught another skunk

Thurs. 24 June - Skeletonized on north hillside - wonderful
saw Sparrow hawks & flickers - Young
Brewer Blackbds are now flying

Lost my horse -

38

Rokchuk

24 June 57

25 June

A Flaiventa

Friday. 25th June, Shelduck on mill millponds. Sparrowhawk & Redtails common –
Visited the dead Elk –

In evening S.S. & I rode to Junction Butte – saw no game

Visited that Elk feed bank of Poplar & Spruce – chiefly former – shelduck are scarce – &
counted 300 Elk balls in one ordinary pile
in a sample average – about 1½ pints.

A coyote went over the hill back of the house & down of Moore's

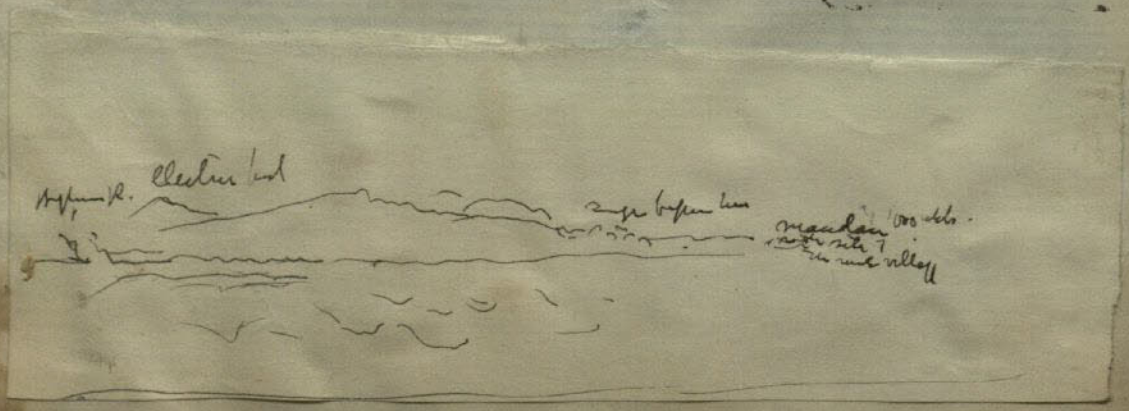
Sat 26 June. In p.m. at home working article for Col. Shields.
During the past few days a family of Purple Finches – (2 adult males & 3 of female color) has been about – They seem the
Cassins – the males
had very red heads – &
gray backs – the females
were like our Carlin birds

Saw a Redtail pursued by two Ravens

Redtail Raven

The Raven is slightly smaller but the two styles are shown

3 10



Sun 27 June. Rode with SS to forest trees. Saw a fox first not seen. It was very pale in color, as light as a coyote, had white tail tip & very large tail.

Saw two deer in evening - they went across the pasture among the horses

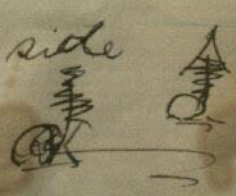
Mon. 28 June. SS & I rode in evening - saw a Swamp Bittern on a stone

Tues. 29 June. Rent Dave Roberts to Sardinia today on a horse - Bought one of Tom Duffy for $25. he to redeem it in the fall for the same money.

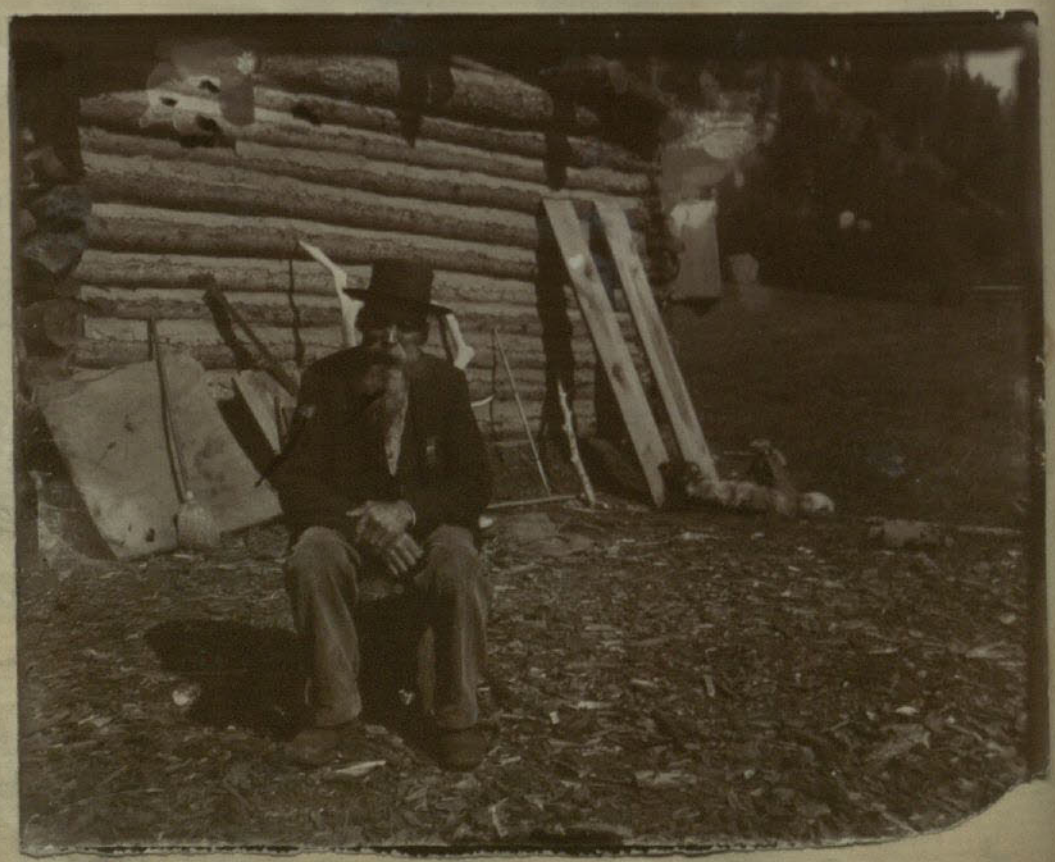
SS & I went to Twin Lakes in evening - Heard Peetweet.

On a hill that was honeycombed with holes smaller than rat-holes - I heard a strange plaintive squeaking as I drew near it ceased - But I heard it at another hill - (Bird Notes 23 S. 1919)

I noticed today that every large stone has a tree growing on it north or nor-west side



3 ℓ2



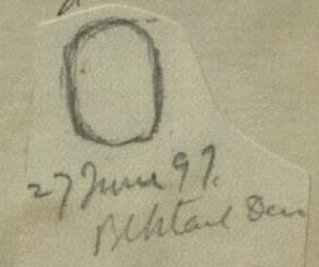
Wed. 30 June. Went to the Beaver dam after supper & saw this close at hand – sketched the pond etc – & built a fire – The slap of the tail is given the moment it is raised after that the tail slaps forward then

I saw two beavers meet & stop to nibble each other cheeks – for a few seconds, & squeal slightly by way of salutation –
made a hide & watch from.

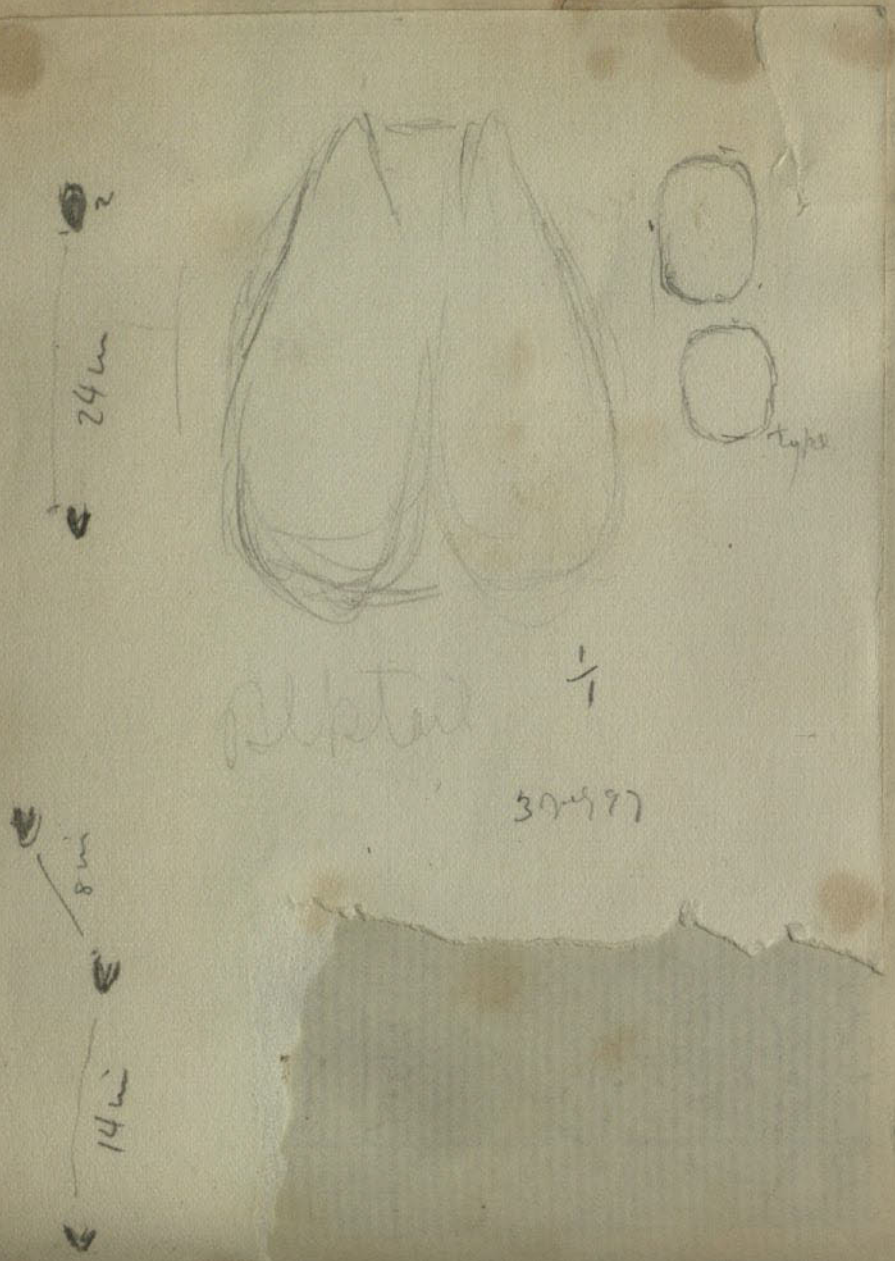
July 1. Thursday – Today my White Horse arrived but have christened him "Rep". This is short for "Whitest Republic". SS suggests "Cut" as a short name – (see below)

I note that the coyote track is more like this of a dog than a wolf, as the side toes are as large as the front ones.

Fri July 2. Rain all day – for 10 days now it has rained more & less each day.



Sat. July 3 – Took a short ride on the mountains. The cowboys recognize him as "Puss" – an old cavalry racer – still sound but very old – This morning I sketched some deer tracks & saw a porcupine R. Spruce near his nest. Sketched several of the old timers.



? Dorfkirch (Hindpost)
in grand im Jurt, Kanne
? Jurg ?

Sun. July 4. Rode over the Yellowstone. Jim & I went on to Junction Butte. Mater & Roberts returned -
On the Road we met Mr A.A. Anderson with a pack outfit 3 men & a dozen horses.
On the top of Roosevelt Butte we saw an antelope & - (redoubt) his summer home.

We also saw 3
Franklin grouse they flew into a tree & let us come quite close - nesting Boy -

Mon July 5. A.A. Anderson called & we all went to Tower Creek
Fishing - had fair luck. dined at his camp.

Tues. July 6. Went to Mammoth Hot Springs with Mr A.A.A.
Put up at the Hotel.

Wed July 7. Went to the farewell banquet to Capt. Anderson.

Thurs July 8. Lunched with Lieut Forsyth - & went out to Camp with A.A.A.

Fri. July 9. went out again. A.A.A moved camp to Rowan Lake Flat - slept one night. A a Coyote sang his song tonight

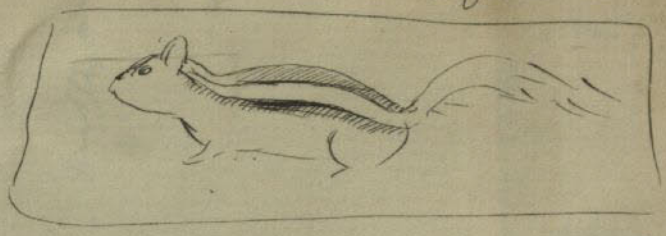
Sat July 10. Jim & I rode home - Cross Mt. H. Off at the Junction on the Blacktail & arriving at Yancey at 5 20 miles in all - We saw several antelope & a young Coyote

46

Potamogeton ?
5 July 57
Gulf of St Lawrence
Near Antigonish ?

Bittern trench in mud -

A common chipmunk about the size of large size with a broad white stripe on each side from the ear to the tail



Ravens around also

Snipe

saw old magpie feeding young with carrel at Mt. H. Spa.

Sun 11 July. Very hot today. Partridge still drumming

White crowned sparrow still singing

Mon 12 July. Surveyed the Beaver Dam this afternoon. Saw a Coyote & a Badger trying to get latter it ran for a hole but fell down another 20 feet?.

It held its tail high & galloped like a low set fox.

In evening 3 S & I went on horseback. Saw a Blacktail Buck

It walked away but would not run.

Saw a Coyote

Tues. 13 July. Heavy thunder shower in evening.

Wed 14 July. Completed survey of Beaver dam.
S S & I rode to Calcite Lake

Thurs 15 July. Painted all day

Fri. 16 July. Painted all day. Rain.

W. C. Wyman of Chicago has

there

Brockelmann

Sat July 17. At home writing articles etc taking photos

Sun July 18. at Home – but took a dozen photos of rocks with bullet Cameron –

found elkhorns pair
Nearly even. wt 28lb. l. 46½. circum of horn 13. of beam 11½in

Mon July 19.

Tues July 20. Went wt SSL Yellowstone Bridge took 12 photos of trees etc.

Wed July 21

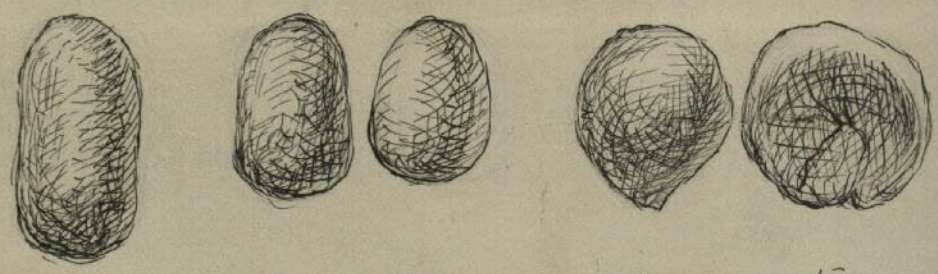
Thur July 22

Fri July 23 commenced painting of "Elk at pool", went fishing in p.m.

Sat July 24. worked at painting of Elk at pool. In general it is about right in colors – but the greens are not vivid enough. The sky is too muddy & the clouds not warm enough – The
The Harbidge drummed tonight. It is about done –
Tonight went for first time on the near Horse "Billy" tracked for Puss last monday – "Puss" (Billy was not a brute of a traveller, a bay. worn out. but younger than Puss)
Saw Coyote. It alternately chased & was chased by our Dog – Rim –
(Rim was the offspring of Chunk)

Sun. 25 July. Went out SS on Washburn trail & rode the back to Tower Creek – fished all p.m. – caught one – The Coyote was near the house this a.m. chasing the dog – Saw him opposite p.m. – Saw 2 Ouzels at Tower Cr.

no 7



1 2 3 4 5.

Elk droppings. 1. Winter, chiefly bark. 2 & 3. Spring bark & grass mixed. 4 Summer chiefly grass 5. Summer entirely grass. (life size)

1511 Wood Avenue,
Colorado Springs, Colo., Nov. 23, 1921.

My dear Mr. Seton:

You may perhaps be aware that I spent a couple of months last summer near Camp Roosevelt, Yellowstone park, making a study of the beaver in that vicinity. This work was done under the the Roosevelt Wild Life Forest Experiment Station, of the N. Y. State College of Forestry, Dr. C. C. Adams, Director.

Because of circumstances notnecessray to detail here, I had no opportunity to look up the literature on the subject before leaving for the Park early in July, and I entirely forgot about your own work at Yancey's, which you described in the Life Histories of Northern ~~Mammals~~ Animals, until Prof. A. G. Whitney mentioned it to me. One of the boys at his camp had a copy of your "Wild Animal Friends", and I thought I had correctly identified your group from that, but now, after looking up the other book, with full description and map, find I was mistaken. And even now I am not absolutely sure that I have made a correct identification. I enclose a pencil tracing from the U. S. G. S. map (the old edition), though the sacle is so small that it is very unsatisfactory.

There are old dams below the Yancey lake you mapped which, however, I paid little attention, being more concerned with the recent work.

the sacle is so small that it is very unsatisfactory.

There are old dams below the workings you mapped which, however, I paid little attention, being more concerned with the recent work.

On the stream I have marked "South Fork", above the Yancey cabin, beaver are now working, though some of the dams are old, patched up.

Also over on the North Fork active work is going on, and there are also long abandoned dams there, both above and below the old road. These were the ones I first took to be those which you described.

I made a somewhat careful study of the meadow on Lost Creek, and if this is where you made your observations, it is very interesting as giving some idea of the length of time required to make a meadow after the abandonment of the workings.

I surveyed and mapped several groups of workings, and of course took notes on all points bearing on the life history of the animals. I am now working on my report.

I shall be very grateful for any information you can give me.

Very sincerely,

Edward R. Warren

Prof Phil 26th. Last night caught two otter near here in trap. They are alive. My wife has collection made. 700 Beaver

Amount.

2 Cabin Tanager

Bin Aspen

107.

record, also

Gallatin County

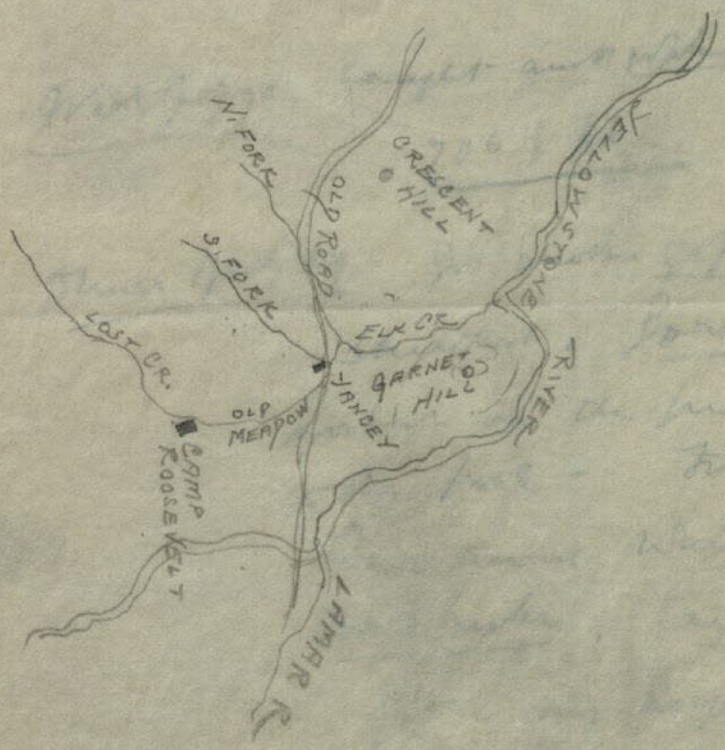
1. a Bony

rib.

this a m.

Mon July 26th. Last night caught two deer mice in Shant; there was Skunned. they are the first collection made.

700 Deermouse
701 "



chipmunk.

2 Cooper Tanagers

Pine Siskins

no 707.

Greasewood, also

Antelope country

it.

Rocks. a Heavy

Rails.

Skunk this a m.)

lb.

Mon July 26th. Last night caught two deer mice in the tent. These were skinned. They are the first collection made.

700 Deermouse
701 "

Tues July 27 Collected Deermouse, 2 gophers & chipmunk.
no 702 - 703 - 704 - 705
Saw Steller Jay pursued by 2 Cooper Tanagers

Wed July 28. caught another gopher & picked pine squirrels
706 gopher

Thurs July 29. Got another gopher, no 707.
skeletted. Spent & greasewood, also worked on the picture of antelope coming to the pool - Finished it.
Saw some Whistling Jacks. a Hairy Woodpecker, Carolina Rails.
Got a very large skunk this a.m.
8. it weighed 8½ lb.

52

Greasewood

29 July 97

Sarcobatus vermiculatus, Hook

29 July 97

Artemisia

24 July 1897

Dayl Bruce

52

15 in

Yancy's July 31. 1897

Yellowstone Jim

But the breeze today
~~was~~ Jimmies ~~gone away today~~

An I guess I've taken ~~caught a~~ ill
~~limber as they say today~~
~~I felt so short of breath today~~
~~yesterday~~ I felt so bright
Corralling Flat & Bill
But now I seem so old & worn
My work & play both pall
~~I guess~~ ~~Hold on - I know~~
Things aint the same
T'was Jimmie done it all.

Pearwood

I'm back in Yancy's shack again
~~to the~~ ~~so quaint~~ ~~a sweet ideal~~
Do miss it ~~It seemed~~
used to be
The rough hewn logs the huge bright fire
~~It does one good to see & feel~~
~~Touch fine~~
But now the darned old squalid hut
Seems 'bout as sweet as fall
The wretched pig-sty's glamour's gone
T'was Jimmie done it all.

They call this Pleasant Valley
An' I used to think that right
With its gorgeous peaks & emerald sw
An Yellerstone in sight
But all them ~~boss~~ ~~views~~ charms & thi
Have panned out mighty slim
Come ~~but~~ ~~pony~~
Fit up yer more
~~I'll~~ ~~well~~ foller Jim.
I guess.

29 July 97

24 July 1897
Day Break

Fri. July 30. Visited Bernadoes, Calvos etc —

— Heard Duffy's aunt of pacing stallions

He says a man is posted at each of the rare drinking places - The band is driven for one to another 15 to 20 miles apart - not allowed to drink the colts die - the stallions sire out well, & start the ~~packed up~~ mares - They are not allowed to drink till in corral

The famous stallion was a pacer he says

Sat. July 31. Found a mouse (arvalis) its hair [illegible] Tail

708. mouse (arvalis) (microtus)

Mater went away today - GG & I went first as hard back. She on Flat, I on Pet - I went a mile past the Lake i.e. 3/4 of the way to the Springs - then turned back, GG went on with mules. It was awfully lonesome at Janeys & I with Wellington Jim

— I saw an antelope with 2 kids

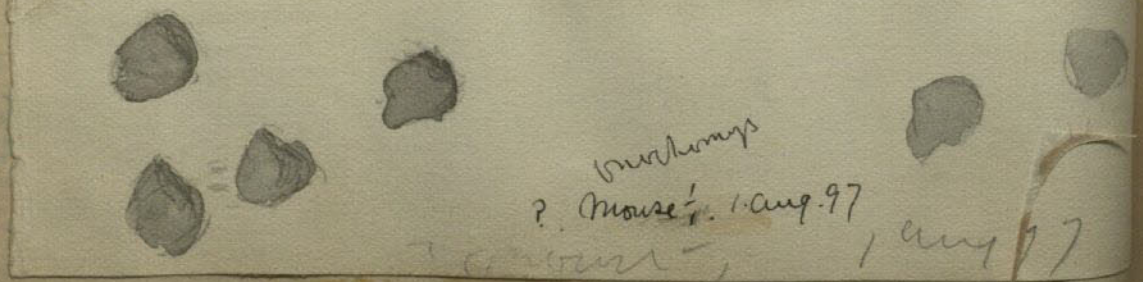
½ drawn —

a blacktail deer & 9 coyotes - also 2 blue grouse.

Dr Penrose recommends me to take for rheumatism. 10 to 60 grains per day for Salicylate of Soda.

Aunt Dinah made a crazy quilt, as crazy as a fool
But that was patch that did not match with some queer crank she had
now I believe each one who lives is making such a quilt
His daily life the fragments gives of what its breath is built
And oft looks back on some bright patch, that comes up ~~bright~~ bare James
I wonder what we'll one day think of that just lived at Janeys.


15 m


? Mouse's 1 Aug 97
1 Aug 97

Aug 1st. Sunday.
The mule team came today & I rode to Hot Springs. leading Bill, riding Pat & my stuff in the wagon. Slept at Forsythe.

Aug 2nd Monday. Moved to Cottage Hotel
Rode to Gardiner & saw antelope there

Aug 3rd Tuesday. Rode to Gardiner, was arrested by Guard for not registering. Shot at Osprey nest (see Opp June 14)

Aug 4th Wed. We went with Col Young & Mr A. E Brown round the Park. Saw swarms of chipmunks & 3 pairs of 4 kinds. very pale Chaysodeiras. very dark ditto & 2 forms of small & striped. Put up at Canon Hotel Saw Mr Walker, delivered Prof Shield & received from him a lot of photos.

Aug 5th Left the Canon early got to Lake Hotel at 10.30 a.m. Met Senator & Mrs S.H. Gallinger. all went above the Col. claim yacht to the mouth of the Upper Yellowstone — Fished & picknicked. Saw full 3 d. with


Pelecanus onocrotalus.


Bear island

to Pelican I. - Conducted. Saw about 250 young Pelicans, a few dozen Cormorants & 2 kinds of gulls, each on its own end of the island. Took several photos. One kind of gull had young so ~~[illegible]~~ another so ~~[illegible]~~ - the first had mantle dark gray - saw saw Mergansers, ~~Fish~~ Teal Bufflehead

At the Hotel - we saw 2 old Bear & 2 cubs got one a two shots. Found the cubs up a tree one could not photo so she tethered. See sketch

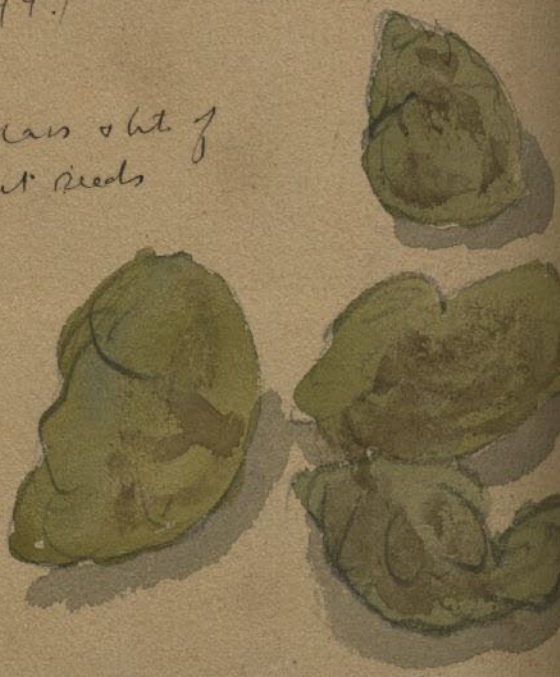
Fri. Aug 6. Drove to Fountain - Hotel, saw several geysers - Then in the great Place for Bear I spent all day Patiently watching & photoing them - The notes made at the time are beneath - It is currently reported that over 13 Bears have attached themselves to this hotel - as I saw eleven the statement is probably true

52

58

Bear ½. Fountain hills
7 Aug 97

Dark with grass o/ht. of
stone fruit seeds



Early in a.m. - they told me a Black bear with a cub came -

at 9.30. a very large fat black bear came - he was very nervous - running to a distance at least slight sound. (photo)

At 10 a quadrupeds short haired black bear appeared & as I ran away at once, but I got both my photo - & took a 2nd of him - He left at 10.15

At 11. the bear & cub came - got photo, they left within 5 minutes as I frightened them by coming near

at 11.10. Saw a Black Bear in woods, not near.

at 11.40 a large Cinnamon came out to pile, 2 photos

Stayed 20 minutes

(went to lunch at 12. came back at 1.40)

1.40. as I came near the pile - the the bear with the large cub came to the pile - & at once a large Cinnamon, the largest of the 13 bears that come) Noted the mode & speed the little fellow climbed a tree. She went to fight the Cinnamon got knocked, climbed tree, many photos -

52

58

at 3.10 no 8

at 3.15, no 9

at 3.20 - no 10. (not counting certain duplicate)
a little dingy brownish yellow

at 3.30. no 11.

not one of these was heard coming
all simply came. no noise
all but one came up round

at 4. no. 12 - a wholly black very sleek

& at once a she bear, calling to her cubs -
she made no cough - this the same old woolly she
the cub squalled in

at 4.05. the big cinnamon -

The B old one now in sight.

at 4.20. another black bear, with yellowish
ankles, 4 legs bears in sight - The cinnamon now left

(Attend to Hotel now)

at 6. I returned to the garbage heap. There were there
(8 black)
9 bears on the ground & the old one with the cub up
a tree. A great crowd of people stood about them
& I was told that there were 10 on the ground at few
minutes before, as well as those up the tree
at 6.20 I [illegible] there [illegible] but one bear left, the old one

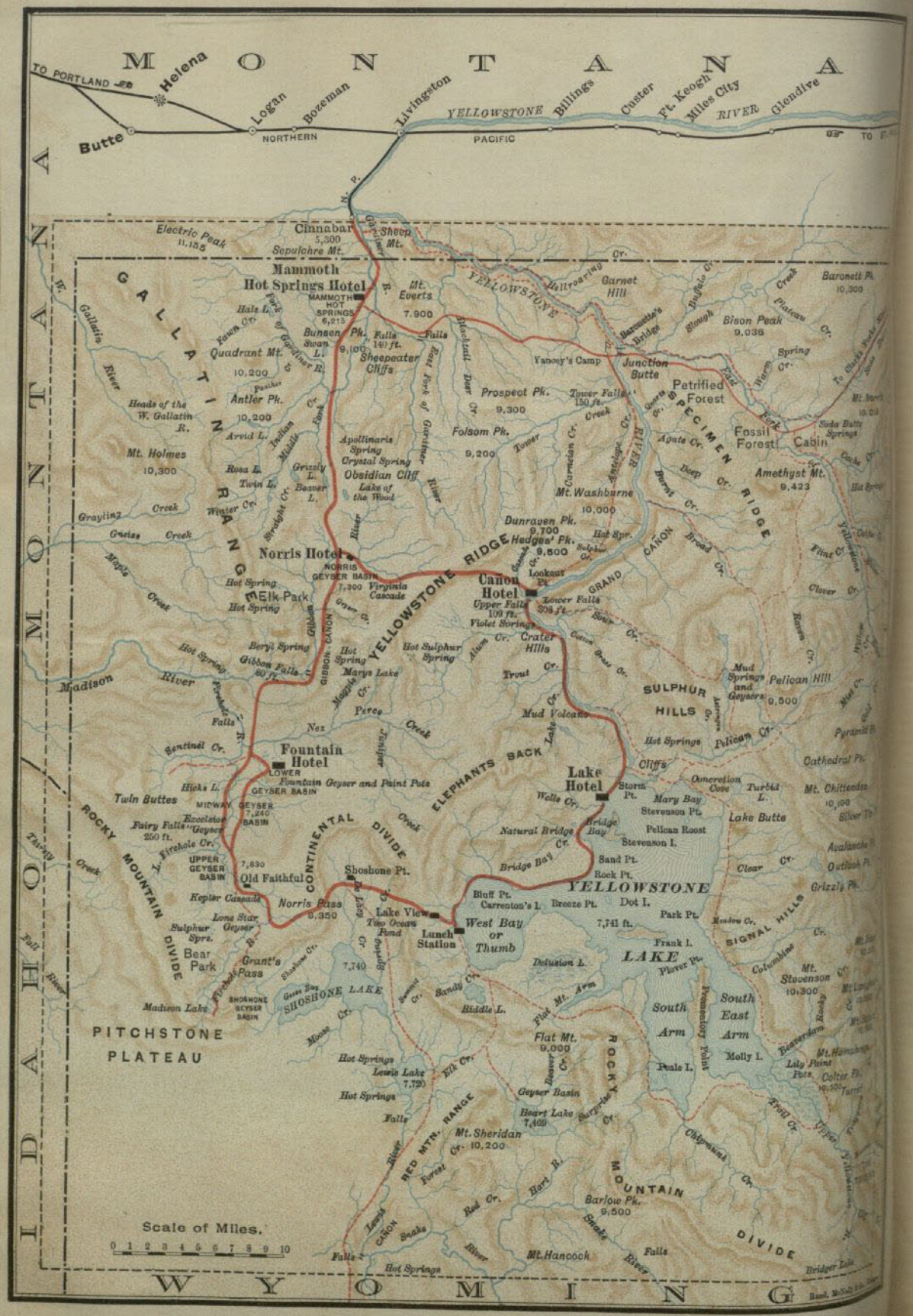
52/

52/

Sun. August 8th – Set out from Fountain Hotel.
on the road from the Narrows burnt plain we
saw Still 1000 Chipmunk. of all species
the one plain we saw 9 with 10 with 8
with 11 with 20 with 28 together
on the dusty road –

at a rocky place we saw Tree Rock
Rabbits as our drum called them (Chief Hares)
He said they were common in the slide rock
about Golden gate & other localities
but are not generally abundant

Mon. Aug 9th – Received letters – One from
Hodge announcing Trumper default also
Davis – Sent draft for $150 on
Excelsior Bank – also with Blanche
Silkworth – Trumper – Hodge &
Mater – McMillan Co sent $33 royalty on
A.A.A. – acknowledged.


MONTANA
TO PORTLAND
Helena
Butte
Logan
Bozeman
NORTHERN
Livingston
YELLOWSTONE
Billings
Custer
Ft. Keogh
Miles City
RIVER
Glendive
PACIFIC
TO ST.
IDAHO
WYOMING
Electric Peak 11,155
Cinnabar 5,300
Sepulchre Mt.
Sheep Mt.
Mammoth Hot Springs Hotel
MAMMOTH HOT SPRINGS 6,215
Mt. Everts 7,900
GALLATIN RANGE
Quadrant Mt. 10,200
Bunsen Pk. 9,100
Swan L.
Falls 140 ft.
Sheepeater Cliffs
Antler Pk. 10,200
Heads of the W. Gallatin R.
Mt. Holmes 10,300
Arvid L.
Rosa L.
Twin L.
Grizzly L.
Beaver L.
Apollinaris Spring
Crystal Spring
Obsidian Cliff
Lake of the Wood
Prospect Pk. 9,300
Folsom Pk. 9,200
Yancey's Camp
Junction Butte
Petrified Forest
Garnet Hill
Bison Peak 9,038
Baronett Pk. 10,300
Fossil Forest
Cabin
Amethyst Mt. 9,423
SPECIMEN RIDGE
Mt. Washburne 10,000
Dunraven Pk. 9,700
Hedges' Pk. 9,500
Lookout Pt.
Norris Hotel
NORRIS GEYSER BASIN 7,300
Virginia Cascade
Elk Park
Hot Spring
YELLOWSTONE RIDGE
Canon Hotel
Upper Falls 109 ft.
Lower Falls 308 ft.
Violet Springs
GRAND CANON
Crater Hills
Hot Sulphur Spring
Marys Lake
Beryl Spring
Gibbon Falls 80 ft.
GIBBON CANON
Madison River
Mud Volcano
SULPHUR HILLS
Mud Springs and Geysers
Pelican Hill 9,500
Pelican Cr.
Hot Springs
Cliffs
Cathedral Pk.
Mt. Chittenden 10,100
Silver Tip
Fountain Hotel
LOWER GEYSER BASIN
Fountain Geyser and Paint Pots
Twin Buttes
MIDWAY GEYSER BASIN 7,240
Excelsior Geyser
Fairy Falls 250 ft.
Firehole Cr.
UPPER GEYSER BASIN 7,830
Old Faithful
ROCKY MOUNTAIN DIVIDE
CONTINENTAL DIVIDE
ELEPHANTS BACK
Lake Hotel
Storm Pt.
Mary Bay
Stevenson Pt.
Pelican Roost
Stevenson I.
Lake Butte
Natural Bridge Cr.
Bridge Bay
Sand Pt.
Rock Pt.
YELLOWSTONE LAKE
Shoshone Pt.
Norris Pass 8,350
Kepler Cascade
Lone Star Geyser
Sulphur Spre.
Bear Park
Grant's Pass
Lake View
Two Ocean Pond
Lunch Station
West Bay or Thumb
Bluff Pt.
Carrington's I.
Breeze Pt.
Dot I.
Park Pt.
7,741 ft.
Frank I.
Plover Pt.
Delusion L.
SIGNAL HILLS
Mt. Stevenson 10,300
SHOSHONE LAKE
SHOSHONE GEYSER BASIN
Madison Lake
PITCHSTONE PLATEAU
Riddle L.
Flat Mt. Arm
Flat Mt. 9,000
South Arm
South East Arm
Molly I.
Peale I.
Lily Pond Pots
Colter Pt.
Hot Springs
Lewis Lake 7,720
Geyser Basin
Heart Lake 7,409
Mt. Sheridan 10,200
RED MTN. RANGE
ROCKY MOUNTAIN DIVIDE
Barlow Pk. 9,500
Mt. Hancock
Falls
Bridger Lake
Scale of Miles.
0 1 2 3 4 5 6 7 8 9 10

Tues 10 Aug. Saw several ~~flowers~~ today on the pasture —

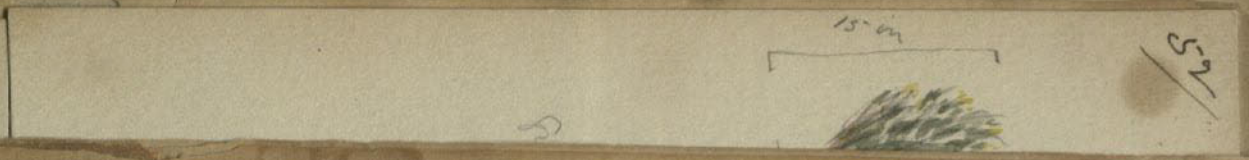
Wed. 11 Aug. Botanized in pasture

Thurs 12 Aug. Went in p.m. to Sandmier, rafted with Hofer - went 4 miles up Cagle Cr. Slept at Hofers Horse camp - with 4 other fellows cabin 10 x 12 - -

Fri 13 Aug. Out early. saw & collected a lot of birds & eh.

2176 Red Headed Woodpecker ♂ ♀ - Wet.
2177 Green tailed Towhee also v common at Yancey
2178 Western Warbler v common v abundant here & at Yancey.
2179 Flycatcher - common ? v abt everywhere
2180 Pewee Contopus ? v abt everywhere
2181 Flycatcher - common at everywhere
2182 Pewee Empidonax " "
2183 Blue grosbeak ♂ ♀
2184 Blue grosbeak - ♂
2192 Oreo warbler ♂
Boy Sp. ♂. v. com.
Nuthatch v common at everywhere like ~~[illegible]~~ Sparrow species
Saw Sparrowhawks - Clark Crow -
Raven - Junco Hairy Woodpecker - Flycatcher

709 Fremonts Squirrel
710 " "
711 Chipmunk



52

66

The mud geyser - is unlike anything one can see elsewhere one hears about bowels of the earth - Here the end goes of thermo the they talk of the mouth of hell. There is the mouth with after a severe fit of vomiting - The filthy muck is shewed vomited from an unseen side pallet into a huge upright mouth with a sound of oozing & retching & belching - Then suddenly swallowed with sounds expressive of loathing on its own part. Notice steam shovels employed today, & the whole process is quickly repeated - & goes on & on & burst on & on & on & will go. and yet one feels they then is merely the steam vent outside of the huge factory where all the real work is being done - One does not really see the thing at all, one only stands outside the building when it is being done -

Why never write twice a second time - all are disgusting by it - but all are fascinating.

Sat 14. Aug. Went with 3 S & other
ladies to summit of Mt Republican - Shot
the Sleeping Pulley. Saw Plenty of Chickadees
etc. arrived home - late - Heard of the
Park Robbery early this a.m.

Sun. 15 Aug. Rode to Gardiner. Saw a
ventable cottontail
by Gardiner River in
the Park - Any no of Grosbeaks Finches
& Say's Phoebes Cliff Swallows
Second Osprey

Mon 16 Aug.

Rode in a m. to Gardiner - met Revd Smith.
W. Brown - who offers for £1000 to take any man
where he can shoot wild Buffalo
without transgressing any laws

Also John Deering - we went together
to Eagle Creek - 4½ miles N. of Gardiner
mountains - saw lots of Blue grouse -
etc -
He killed 15 Blue & 2 Ruffed
grouse. The latter seem to be Togiles
I saw number of Nighthawks - Phillips
Greenlets - Jeffries, & shot - the following

2185 Shorthshin - com. shrike 1 spec (sony!)
6 Kingbird - saw 3
7 a sticky Vireella? Brewers saw several (see Aug 18)
Hummingbirds (Rufus?) got nest
2188 Vesper Sparrow called White tailed Sparrow
9 " "
2190. Green Tailed Finch up.
1 Clippy
2192 This was really taken Aug 13 - but
overlooked - Oporornis?

ELECTRIC PEAK, YELLOWSTONE PARK.

I also shot. 4 Chipmunks. 1 Brewster Valley 71
& a ♀ Northern Jack.

712 Brewster. ♂.

713 Jackrabbit (compositus) ♀. in milk - v. large
weighed 7¼ lbs -

714 Chipmunks -
715 "
716 "
717 "

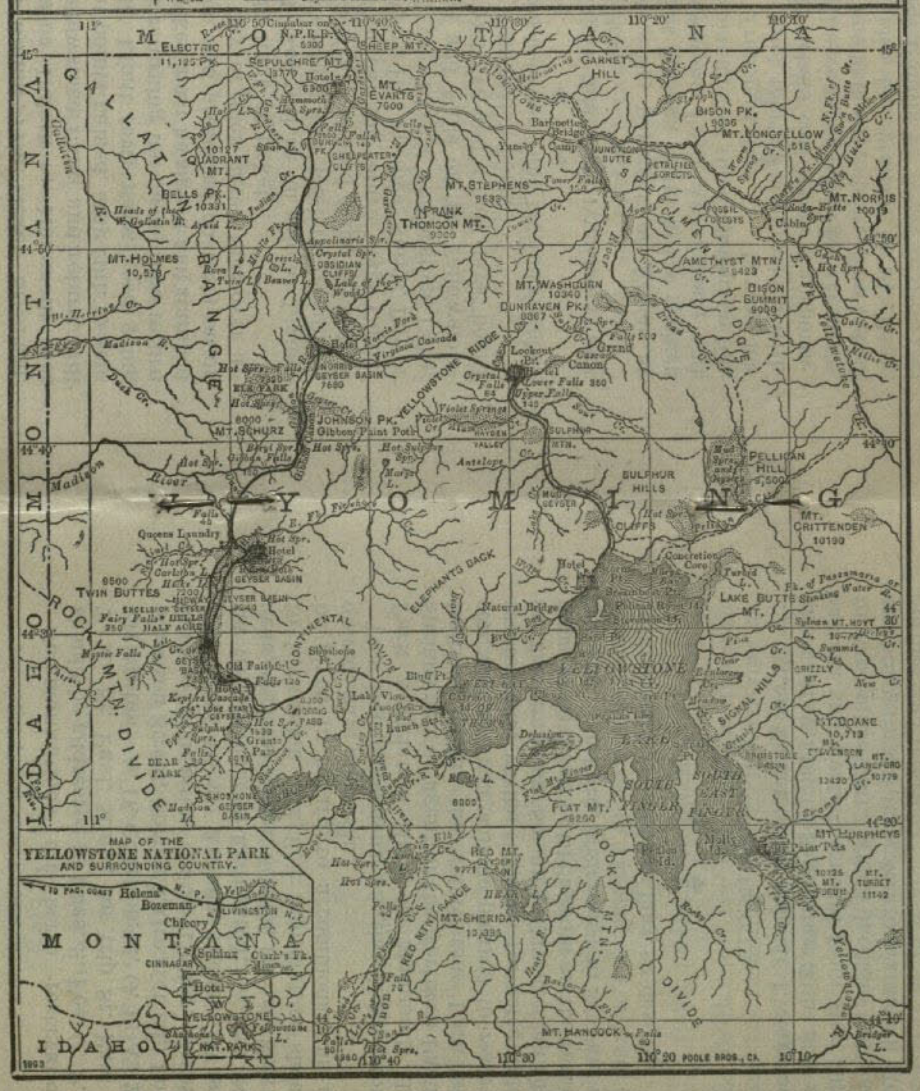
Tuesday 17 Aug. at Hotel all day skinning the above
specimens -

Wed 18 Aug.
~~To Coach~~ all day about 71 Yellowstone -
saw numbers of mountain chickadees
They are much like ~~chickadees~~ in
habits - & have several notes the same -
I blowed 2 of them @ ~~6~~ feet distance.

MAP OF THE YELLOWSTONE NATIONAL PARK.

REFERENCES: Stage Roads. —— Trails. - - - - - Wagon " —— Geyser Formation.

SCALE 1 0 1 2 3 4 5 6 7 8 9 10 Miles.



Mrs Dani (160 Boylston St Boston)
Cory & Elliott.

Today sold Billy with saddle etc complete for $15 cash
this horse etc cost 22+10+½+1½+1+6+½ = 42.

2187. Spizella ♀ ad this bird shot & entered on
cards is as follows - L. 5¼ in. W. 2½. T. 2½.

Thurs. May 19. In morning went to
Gardiner - took little girl saw number of
Greenlands. they are exact Towhees in
manner - also saw a cottontail &
a Jack rabbit both are common about
Gardiner -

saw many cliffswallows -
Dover, Vespers Pinelinnets. Chippies
& Lizzards
collected.
2193 Rock wren. Salpinctes ♀ ad
2194 Chippie.
2195. Pine linnet
2196 Greenland
2197.. Warbler

Dined at Dr Bradleys tonight.

74

Fri. Aug 20th.

Skulked in the pasture - saw a Snipe by the little marsh =
Took a lot of photos of cows etc in pasture.

Dined at Lieut. Forsythe's

Sat. Aug. 21.

Left Mann at Springs - by 8.15
Came for Cimarron -
at Lumpkin went with Mrs Wheeler & Miss Strong to the taxidermist (Tolhurst) bought bow & arrow etc of Cheyenne make dish of Apache etc.

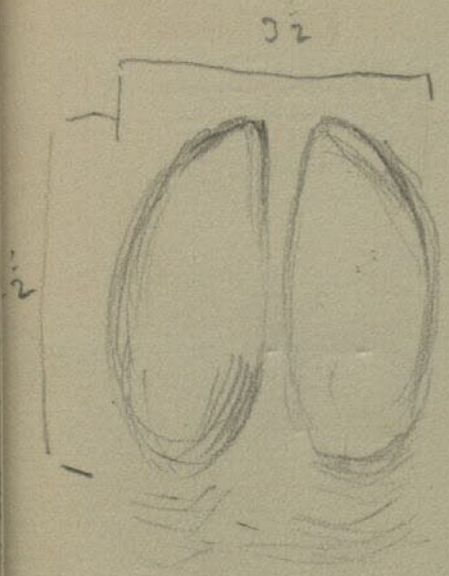
Sun. Aug 22 - Billings. Just up at College Dues (Mr Martin) Went for a walk in p.m. ~~Aug~~ Doves Lesser Yellowlegs, Solitary, Meadowlarks Stints, Sp hawks, Brewer Blackbirds Burrowing owls - ~~Avoc~~ Teal. abound -

7/13a

In the [illegible] shelf - I saw a Bighorn with pure black tail & rump stripe -
Lynx & Bobcat are common -
Saw Several T. verticalis (Arkansas Kingbird)

Mon 23 August. Went to the Bluff north of Billings.
Burrowing owls, & a
the Pellet of the owls
Auk, & 1½ long bright-
compact of grasshopper &
(or Pocket Wren)
Salpinctes abundant
[illegible] - I saw several
[illegible] - coyote - Lizards
[illegible] Lands of Wanders -

Bull Elk



2203 " "
2204 " "

718. Cottontail ♂ wt 2 lbs + 10 z.
719 " ♀

70-B

In the ~~[illegible]~~ ship - I saw a High
with pure black tail & rump white -
Lynx & Bobcat are common -
Saw Several T-virginalis (Arkansas Kingbird)

Mon 23 August. Went to the Bluff north of Billings.
Saw number of Burrowing owls, & a
few prairie dogs - the Pellet of the owls
are about 3/4 inch thick, & 1½ long light-
purplish red & composed of grasshopper &
beetle remains -
In the rocks Salpinctes (or Rock Wren) abundant
also Swifts innumerable - I saw several
Cottontail - & short-eared - Lepus
abundant. also saw flocks of Wandering
plovers & Avocets.

2198 Spotted Towhee
2199 Shore lark
2200 " "
2201 Rock wren
2202 " "
2203 " "
2204 " "

718 Cottontail adult wt 2 lbs + 10z.
719 " ♀ ♀

75-3

7/6

Tues 24 Aug. Went with S.S. in a car. 6th Bluff
saw many Owls - Doves etc - Shot a Dove
saw several pale chipmunks. Shot one

720. Pale Chipmunk. ♂ ad.

2205. Dove ♂ shot with rifle.

Met Mr Barstow at the Hotel. He has promised to assist us
in seeing the 'Crows'!

Wed. 25 Aug. In a car. made sketch of Buffalo &
sky. This sketch is about right in tone
but the colors are not brilliant enough.
& the sky not quite yellow enough.

Went to the southwest in evening with S.S. shot
at several Bats, killed some but found
none. Saw many Killdeers etc & shot a shortened
Owl, & a small Hawk (Sight?)

78

S. Rail. 26 aug 97

Eutaenia.
Billings. mont
25 aug 97

l. 41 in.

Thurs Aug 26. In morning went with SS & the marsh Bay Cove. Saw great number of meadowlarks, Spizellas, Rhynchophanes (?) Arkansas Kingbirds, Vesperspar, Marsh Wren? Brewers Blackbirds, Carolina Rail, Va Rails, — one night Heron & Harrier. Killdeer Solitary Sandpiper, Least Yellowlegs. Long Spurs etc —

Also found a bat from last night.

721 Bat ♂ ad. of subulatus type

collected the following birds

2206. Va Rail ad ♂.
2207. Car. Rail ♂ ♀
2208 " " ♂ ♀
2209. Spizella. ♂ ♂.
2210 Rhynchophanes ad ♀
2

Saw carrion case of Killdeer flying about of Harrier crying a warning — what all the marsh seemed to understand & later saw the same thing attempted by a Blackbird with the Heron.

Killed a large garter snake with red spots

In afternoon - I went to the Bluff north - Shot another chipmunk - & a Vesper sparrow with almost no white on tail -

722 Pale Chipmunk ♀ ad.

2211. Vesper sparrow. ♂ ad.

Saw any number of Doves, Swallows Sparrows, one redleg, Shorelarks Vesper Shrike.

Fri. 27. Aug. Went in a.m. to the Marsh North. Saw again the Killdee & the Hawk incident - Shot a Savannah & an arkansas Flycatcher.

2212. Ark. Flycatcher ♂ ♀ (Kingbird)

2213. Savannah sparrow. ♂.

Followed the elk in the elk park. Promised one to Walter Brown - & Presbyterian Hospital. W. corner & wood St. church -

Sat. 28 Aug. Went in a.m. to Elk Park - shot at elk - This shot is rather too dull in color - & the landscape (naturally) should be a tone darker -

Sun. 29 Aug. Left in a.m. by the 8.15 train for the Crow Agency, arriving 10.30 Went at once to the only Hotel Servers.

En route saw any number of Prairie Dogs, Doves, Larks. Cottontails, magpies

Met Mr J. Reading. Mr Ed Borbank the artist Mr & Mrs Barstow, Dr Mrs Backler - Capt Watson - Mr & Mrs Ross Mr Hawks Rev. Mr Burgess - Mr Wheeler brother-in-law of Senator Vest & Son

In ~~morning~~ p.m. saw part of an Indian wedding -

Went with Mr & Mrs Ross to see an Indian dance at Black Lodge camp. 6 miles down the River - Took about 50 photos -

(1) Wind mountain Hills in
Dust - off prairie by
Roosevelt
(2) U.S. Hills near Fort Pierce
away in N.W. Mountain
(3) U.S. with sky, water,
Dust Tepee - on the
ocean - & rock & sand
on mountains.
(4) U.S. over the Hills with
2 arrows on Point -
on Bighorn River
(5) U.S. Hills on Rock -
away out of Big Horn
(6) Wind Hills - sand & grass

Indian Dwarf Tepee
night 7.30 am.

Mon 30 Aug. All day painting the picture of Sharpnose (U-pair-tair or U-pe-te) - with Burbank in leather studio - (see below)

(had adventure with 2 Buck Indians) - saw Jack rabbit

went in p.m. to see Indian prance - saw Jack rabbit run. it held tail so

In evening went to White Swans tepee - arranged that time come & make me some drawings -

Tues 31 Aug. In morning rode with Mr Reading & 55th & 6th Custer Battlefield - caught 2 horned toads. (one shot blood out of its eye on my finger) White Swan came & drew all p.m. at - In ~~evening~~ ~~went to White Swans~~ tepee. Burbank making photographs of his tepee -

In p.m. I went shooting across River - shot - 1 cottontail - 1 Sage hen 12 Bobtails, 3 magpies

White Swans drawing finished today -

2214 magpie ♀
2215. Brewer Blackbird ♂

Wed. 1 Sep. Ordered buckskin coat of Sharpnose wife - Jerkey. Went today to fit on - Took photos of self -


P Rentzwolf

Thurs 2 Sep. Received a lot of Indian drawings from Bhoshuse & others —

Fri. 3rd Sep Left Crow agency in wagon — for Billings

Billings

Sat 4th Sep. Put up again at Cottage Inn — I went out in a.m. & followed several times the Elk herd — In p.m. sketched & worked designs on a Crow robe.

Sun. 5 Sep. Reached Medora at 6 h m. Found Howard Eaton & his friend Kennedy awaiting us —

Mon. 6 Sep. Went out on a Wolf hunt with Eaton bros — in all 12 horsemen 1 wagon & 9 dogs — Chased a buck antelope in p.m. failed to catch —

One of the boys shot 2 deer — B. Sketch.

Saw no wolves or coyotes that night we heard both.

At night a weasel was among the saddles

88

Bédachuil

Its-é-jut-da = crow

The Dance = It-sōth

90


Ěhs - oú - o - ka -

92

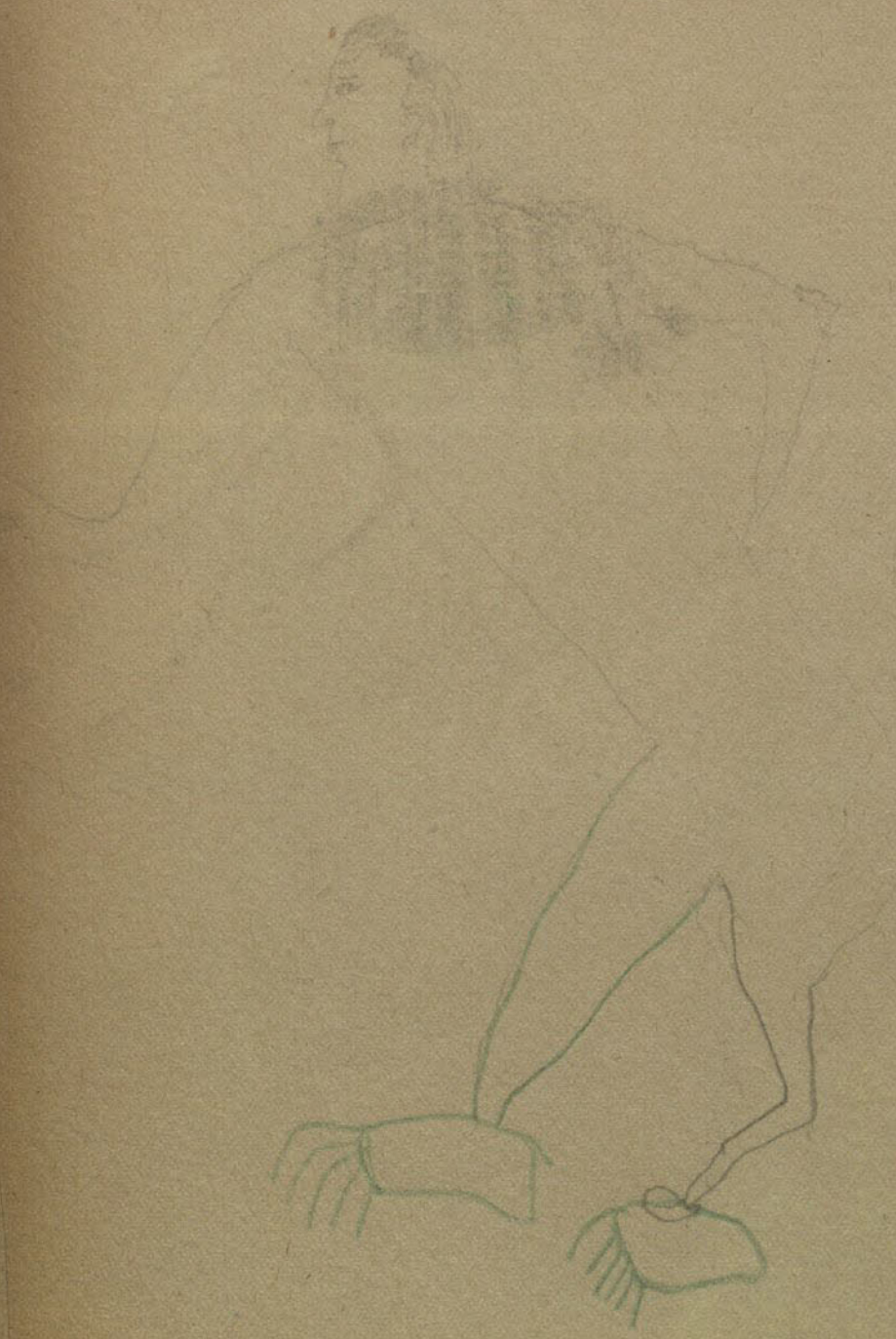
Che. Tu. Ma. Ale

Che-xi, cha-pha

98

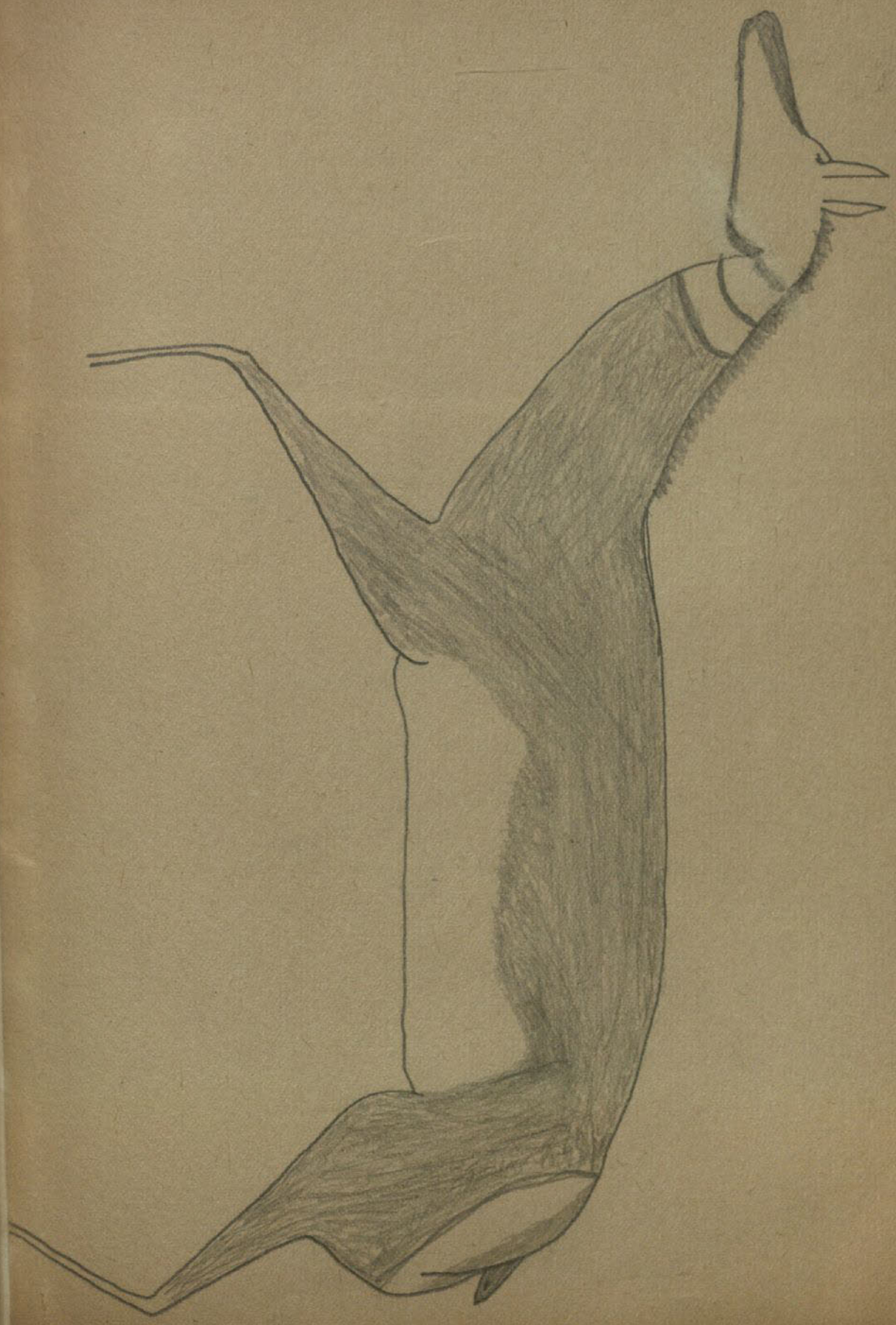
Daō-Ka-Ahé
Eagle by Phoebe Anne

102

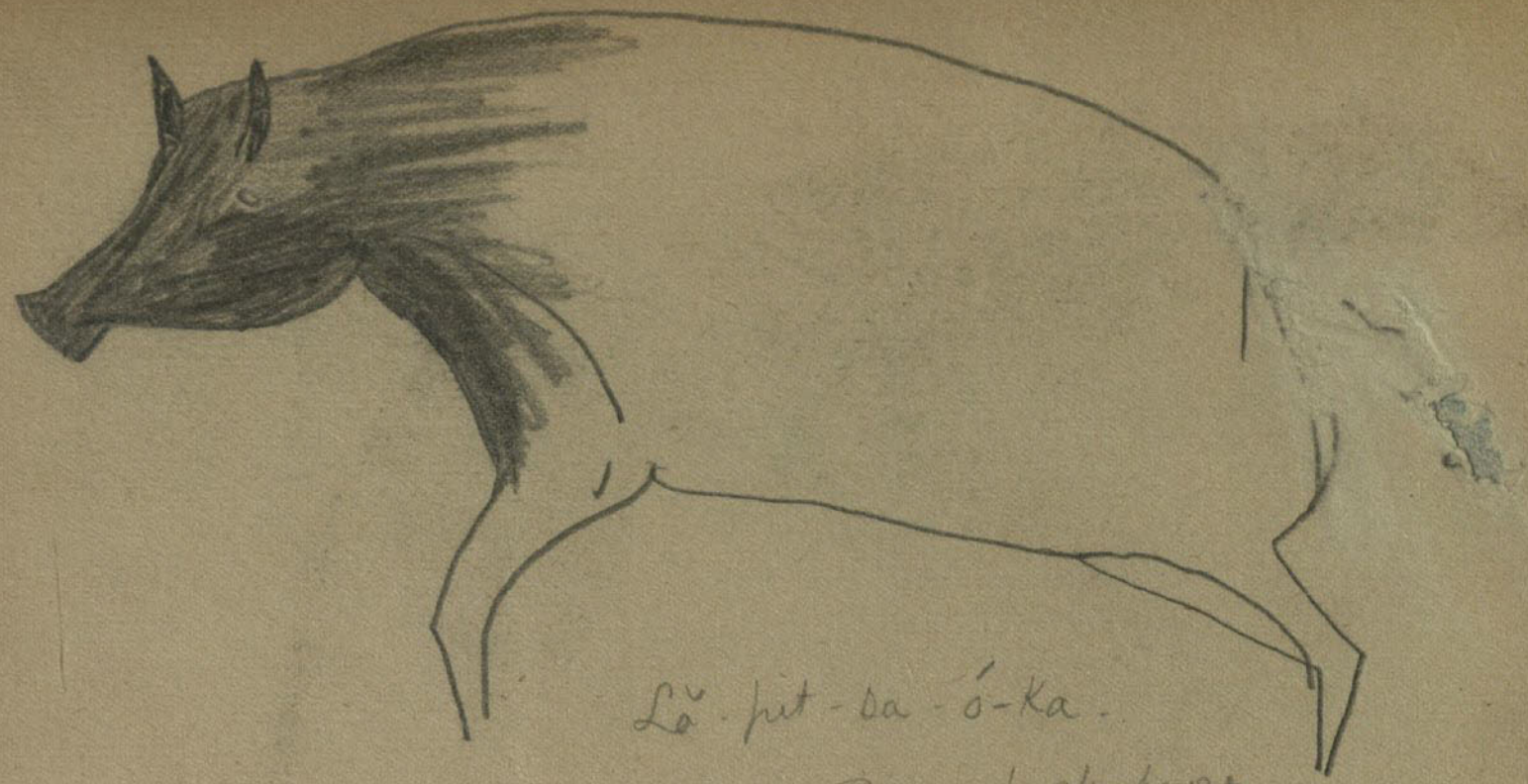


104

106



109



Lŏ-pit-ba-ó-ka.

Pg. by shaefner

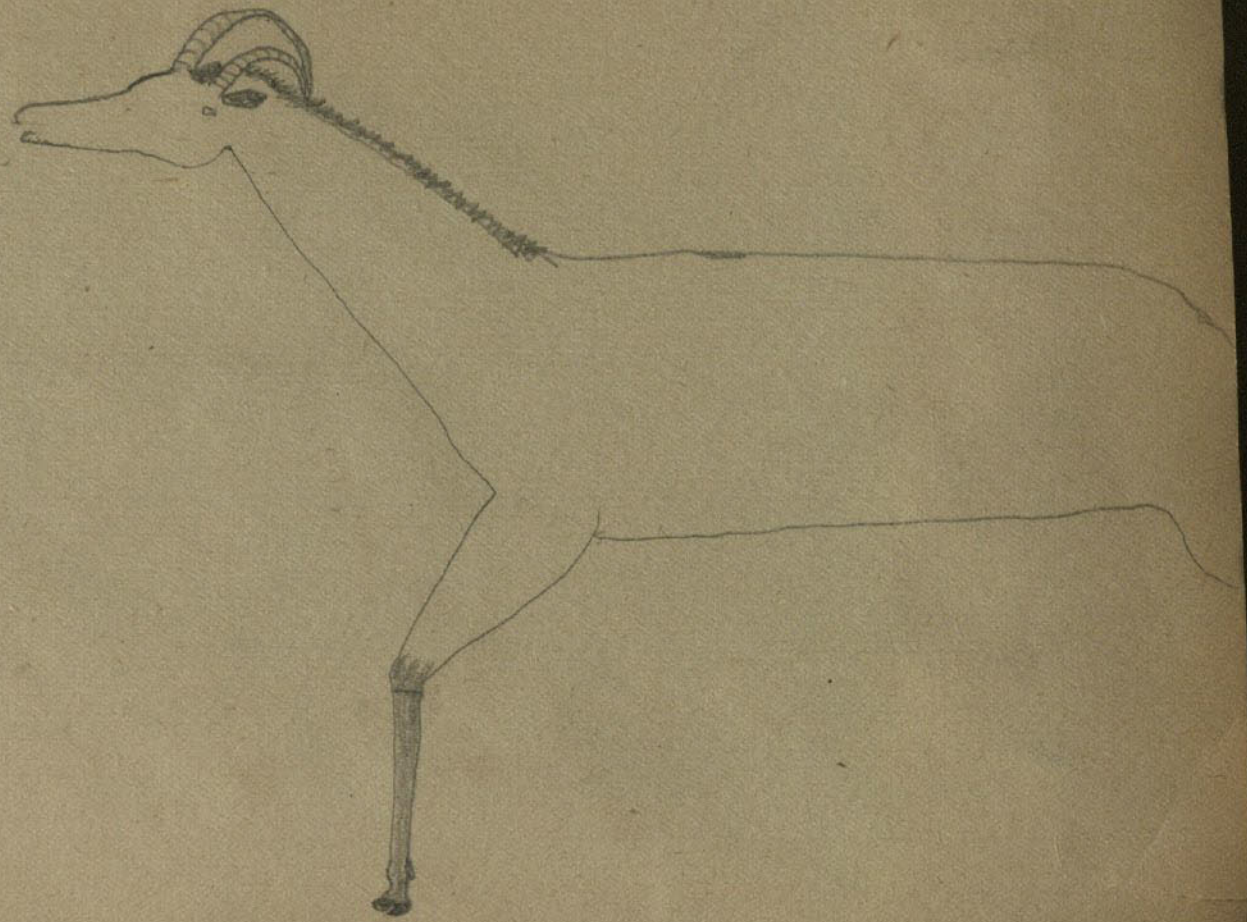
110


Bu. ohé
Buffalo.
by Chowhow

110 112

Ja-pwin-te-te
Kuch-ly pluphuma

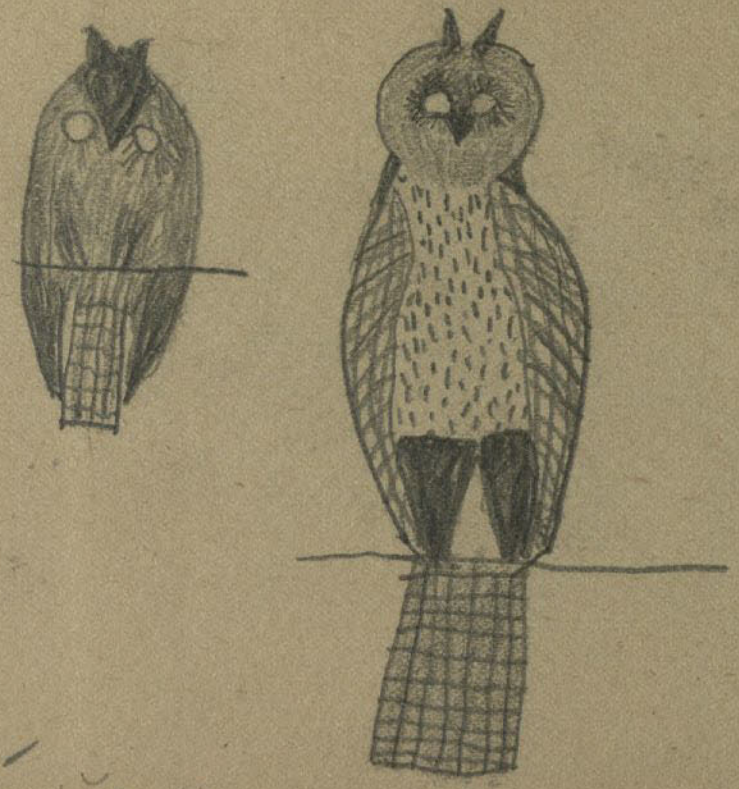
115



Deaf Bull
by Shaupone


Bi shé

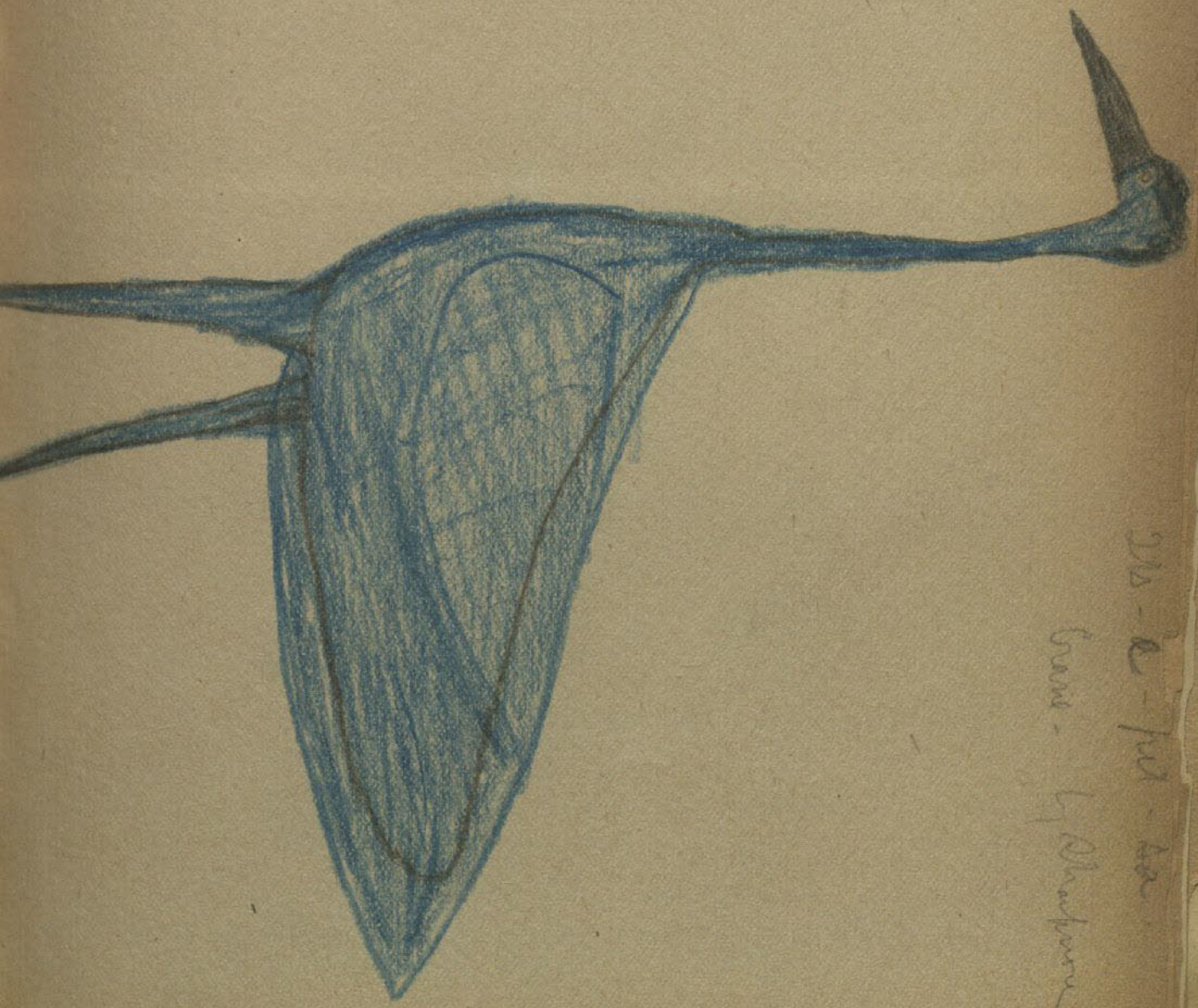
117



Pó-pŏt-te.

by Sharpeare - Ŭ-kéh-téh.

118



Ills - R - Pol - Ser
Gram - by Olaudhanu

Mi-tas'-da-chirsch
Bad Medicine

127

L. Clifford Whitehorse
Dancer

Wilhelm

129

United States Indian Service,

_____ Agency,

_____

_____, 189__

131

133

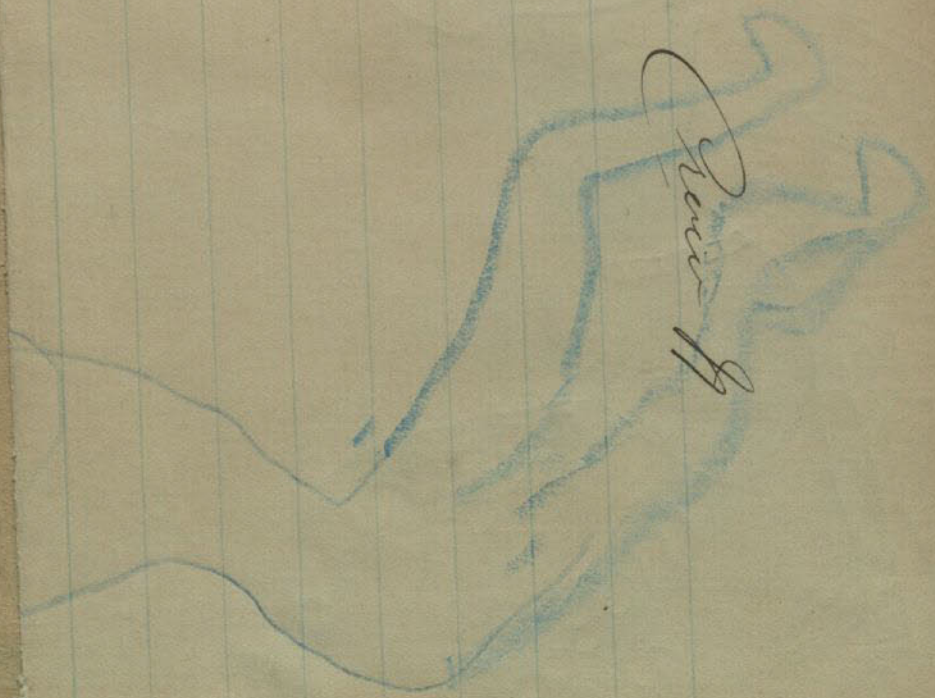
135

157

138

137

139



140

137

141

143

Dajehen = Sage - ki - sai.
Pulc pon = Sage - chi - ká - sa
- sa

Ka - rót - sik = that's enough
~~ca rot = big~~

Da (sit) whor - ba - wa - rót - big =
let me take your picture
~~wa ria a ria ria~~ picture

wa ria st muara =
will you sell that?

Bí - da - chi rsch (sit) =
white ~~crane~~ Swan

Ká - i - sé = you understand

Crow

Barot = no.
Sápá = where are you going
Hom met = Haven't any
Kotk or Ah = yes
ma - kaht, - very good
Marai - Ku - pa = Waistcoat

Mwá - ther = money
Hó - pa = moccasins
It - sik = good
Ó - pé = tobacco
Bí - dé = pipe
Pú - wé = smoke
Kas - o - pia = blanket
A - gé = tepee

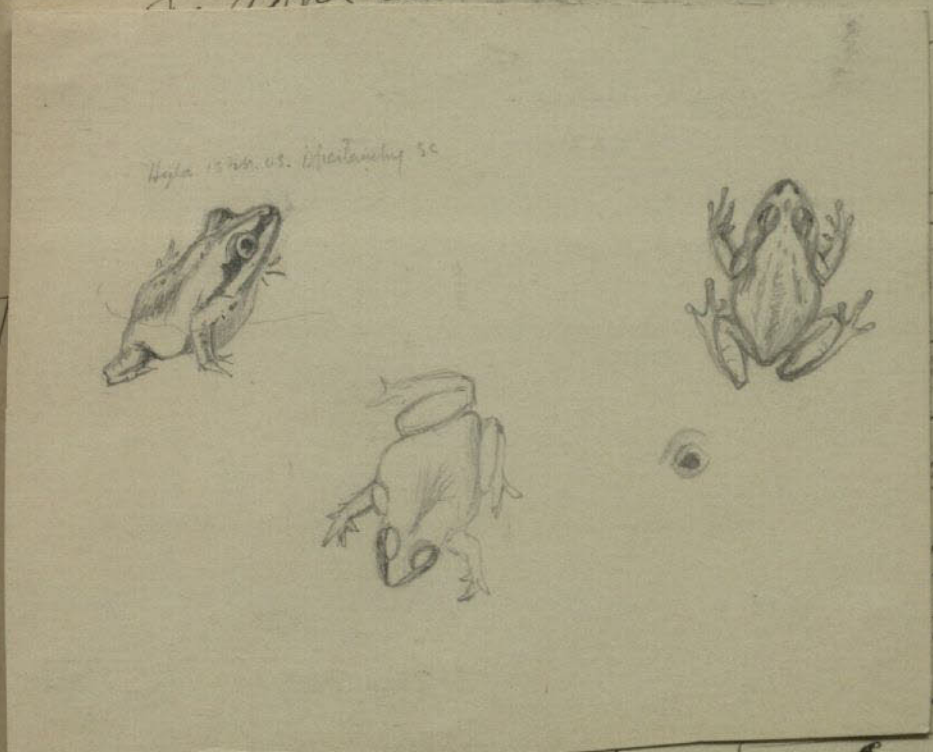
Chumpuoc = ú - pé - té
up - air - tail
my wife = Du - wá.
whuleman = ma - chi - da
house = u - chi - da
not yours! - Di - sed - o - big

Black Bear
Dah - pits - sé (sit)

145

Sofa which an ass wear

Tues 7th Sept. Hunted all a.m. in vain
at camp in afternoon we saw a Blacktail
with 2 fawns – Had a run with the
dogs – on level prairie the greyhounds
would soon have caught it – but –
2. soon as it took to the hills the
[illegible] thor was
away from
[illegible] was attacked
long tail
[illegible] day –
[illegible] morning
[illegible] 3 rattlesnakes
[illegible] and a Longspur
[illegible] struck the
[illegible] and flew



away instant –

Returned home at noon
c & G Eaton's Ranch
saw Antilocapra & run away from best greyhounds

Mon. 9th Sept. 1897
Worked about home – & saw deer
round up & calf branding – skunked & birds
22-16 ~~[illegible]~~ ~~Arrest~~ 2 Co

Fri 10th Sept. Left by 6 pm train –
Sat. 11th Sept. reached St Paul

Medora 1897 146

Tues 7th Sept. Hunted all a.m. in vain at camp in afternoon we saw a Blacktail with 2 fawns - Had a run with the dogs - we lined some the greyhounds would soon have caught it - but as soon as it took the hill the speed of its bounding action was decided & it sailed away from them easily - a boiling hot day

723 by a weasel down by the spring one of the boys was attacked which he killed. W.D. big tail

Wed 8th Sept another hot day - hunted in vain all morning - saw 13 antelope - Killed 3 rattlesnakes saw one with a small bird in its mouth - when I struck the snake the bird was released & flew away unhurt -

Returned home at noon i.e. to Eaton's Ranch

Saw Antelope & run away from best greyhounds

Thurs. 9th Sept. 1897

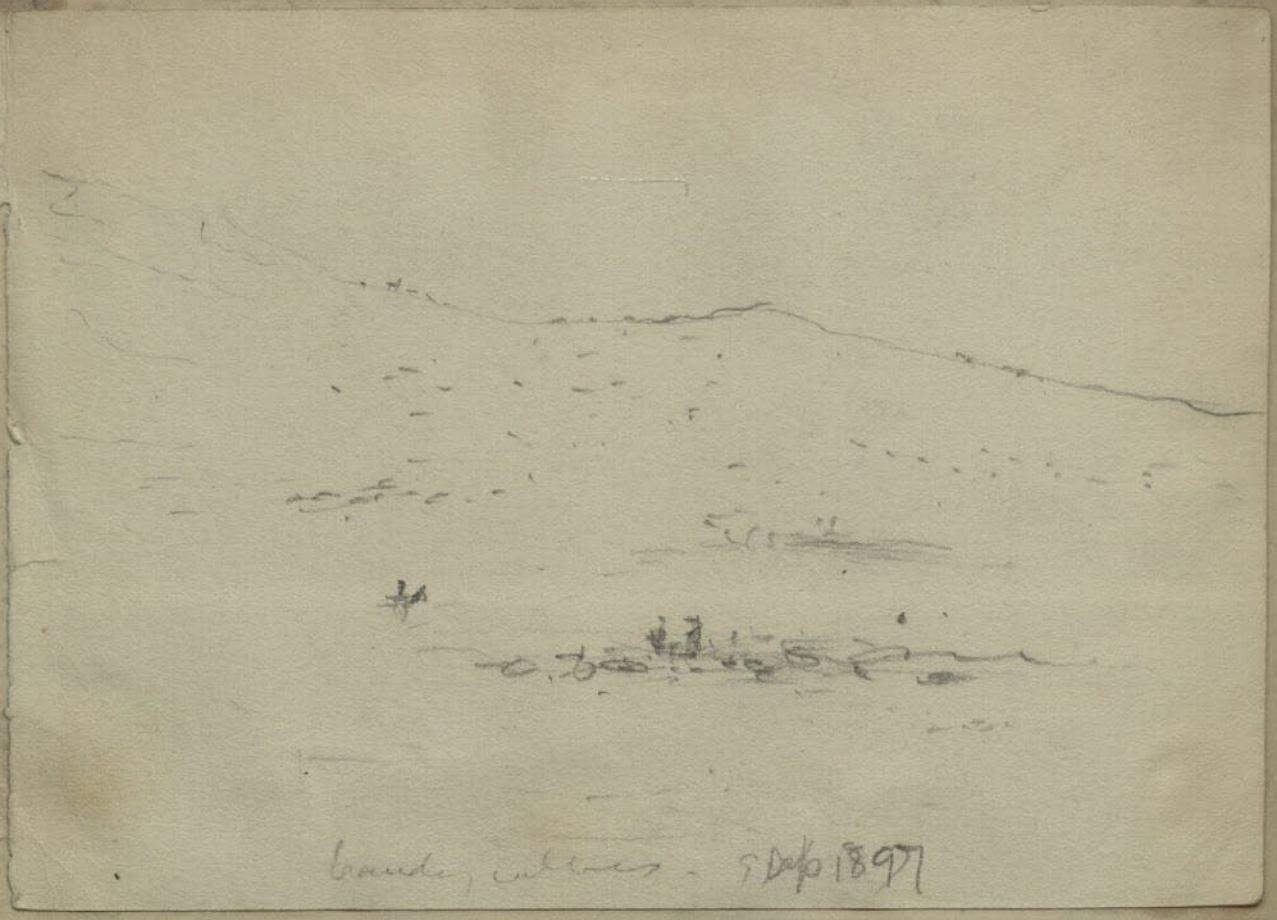
Worked about home - & saw the round up & calf branding - skinned 2 birds

22-16 ~~assist~~ ~~Assist~~ 2 Co

Fri 10th Sept. Left by 6 pm train -

Sat. 11th Sept. reached St Paul

147



Sun 12th Sept. Reached Chicago Rest up at aunt Wm Palmer. Ellis are at 42nd St. (see below)

Monday 13th Sept. The Kemeys called & took us to the home for dinner & played on mandolin

Tuesday 14th Sept the Kemeys after lunch went to Field Museum with specimen of mammals. Here they bought subscriptions

Wednesday 15th Sept. Went to George B's home 124 Howard Ave. Austin - in p.m. for dinner returned home evening.

Thurs 16th Sept. Left Chicago by B & O. at 3.20 - via Washington reached N.Y. next night. This a.m. saw Mr Freeth of the Art School, which then a warbler fell dying on the ground under a window & skinned & with train in the p.m.
2217. Bek the Blue Warbler W.P.

Buffalo - a cow! -

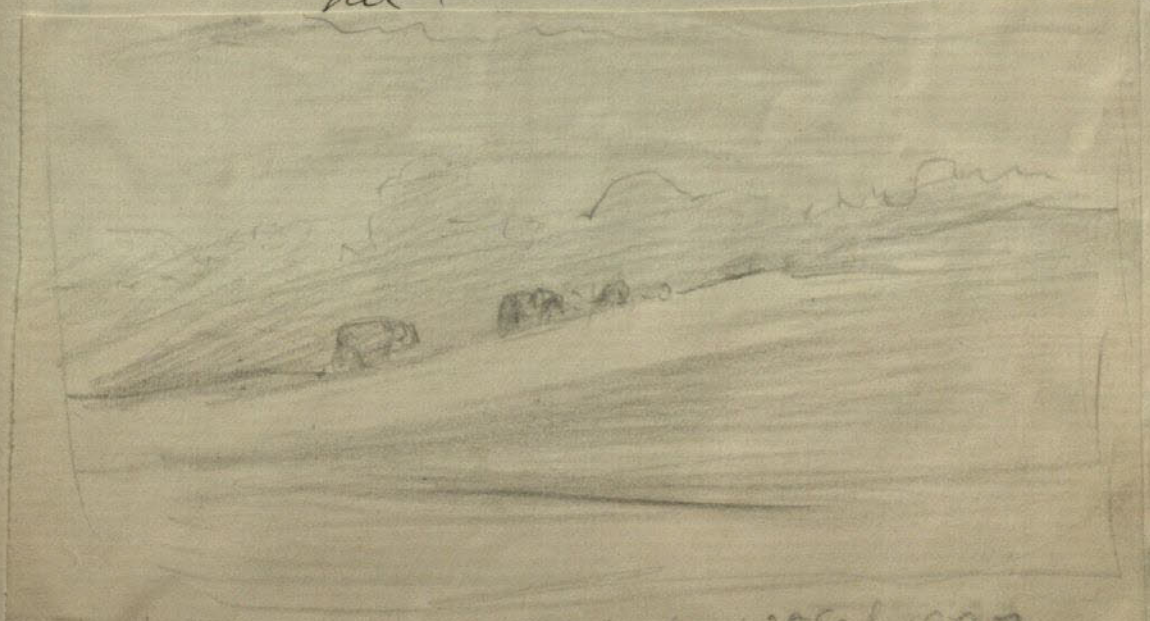
N.Y., 1897

150

Fri 17th Sept - Got here at 10.40 pm
put up at New Amsterdam Hotel.
4th ave cor 28th st.

Oct. Moved into 144 Fifth avenue -
having there the whole top flat -

At the museum after seeing various chimneys
& consulting with Dr Allen - have decided that
T. minimus is the small pale one from
Billings
T. 4 vittatus the small dark one from
the park
T. Wortmani the large golden one from
the Park -



Buffalo. Very cultured Wed 28 Sep 1897

151

Mammals

(1) White tailed Jack Rabbit

(2) Rocky Mt Rabbit 1 Lepus bairdii gnu

(3) Sage Cottontail 11 Lepus baileyii

(4) ~~Rabbit~~ Spermophile 1111 1 Spermophilus armatus.

✓ (5) Dark & Red Chipmunk 111111 Tamias quadrivittatus
~~lateralis~~

(6) Pale chipmunk 11 Tamias minimus

(7) Deer mouse 111 Peromyscus arcticus

(8) arvicola 1 Microtus longicaudus

(9) Brown Bat 1 ? Didn't get it!!!

(11) Weasel 1 Putorius longicaudus

(12) Fremont Red Squirrel 11 Sciurus fremontii

ELKLAND.

III.

OLD-TIMERS.

ERNEST SETON THOMPSON.

In previous letters I have written of the game. Let me now, for a time, make game of man.

Some of the American magazines have, for years past, been feeding the people on accounts of personages who played more or less prominent parts in the politics of Europe 100 or 1,000 years ago. Although these same histories are perfectly well-known and already fully remarked on in 100 different forms the discovery of a few trifling personal letters, or peculiarities; the accidental turning up of a new anecdote, or another doubtful portrait, is considered sufficient justification for a new rehash of the man's entire history. Within a few months the transfer, from England to Germany, of a wretched little barren rock, off the coast of Europe; and in South America a squabble over an inaccessible strip of jungle has called forth whole libraries of historical documents and reports.

All this, while a stupendous historical event—a vast revolution, is going on and is, under our very eyes, nearly completed—unnoted, unheeded, unheralded, and, to any adequate historian utterly unknown. I refer to "The Winning of the West" as it has been styled by one who, in advance of his time, has realized its importance.

This Westward march of the white race has at last been completed, and a vast empire finally wrested from a weaker race. Thus, though the fate of a continent of land, untold treasures of gold and millions of human beings have been decided within 2 generations—after thousands of battles and thousands of deeds of incredible heroism on both sides, it has not yet occurred to the average historian, that here is any event worth writing about.

Why? I don't know. I suppose the fashion is not yet set. Or, some may say it is too soon. We cannot write, historically, about an event when it is before us. This may be true, but what about the materials for the history when the time does come? It does not yet exist on paper. The men are dying out who made this epoch and who know the story of it. When the event is consummated, and the time ripe for the great historian who is to come, and tell how the empire was won, he will be unable to build his book for lack of proper records.*

Let me now adjure every man, who bears in his head a scrap of the history of the West, to put it on file somewhere—in RECREATION, for instance. Let him write it as a history if he will and fail of greatness as he may, but let him put it where the real historian may find it, cull it and mill it till he gets out of it all the priceless stuff it contains. So let the chronicler go on gathering till he shall have collected all the precious metal necessary for that glorious,

J. F. YANCEY.

Has been on the plains and in the mountains since 1851.

golden web that is to attest the greatness alike of the recorder and of the event.

Now by way of setting a good example, away up here in Yancey's log shanty, in the Yellowstone Valley, let me jot down a few stories from the lips of Old-timers; of pioneers; of founders of this empire, who pass and repass and silently, almost mournfully regard the new race of whites that is succeeding them.

"Uncle John" Yancey himself, is a good example of the old-timer; as rugged as a mountain and as gentle as snow.

Born in Kentucky, in 1835, of the famous

* Bancroft's "Pacific States," Appleton's "Story of the West" series of books, and many papers published in previous issues of RECREATION should be excepted from this general statement.—EDITOR.

old Virginian stock, John F. Yancey was early introduced to frontier life. An uncle of his had been a well-known trader in the great Southwest, of which Independence was the port of entry. His superb outfit, of over 100 pack mules, was well known in that country—Mexico they then called it—and he both made a large fortune and lost his life in the adventurous business before John Yancey was born. Undeterred, however, by the dangers of the West young Yancey, in 1851, then but a lad of 16, made his first trip, going far into Mexico. In 1854, after sampling the alkali in what are now a dozen different States, he drifted into Beckwourth Valley, California, and put up for a few days at the "House" of Jim

TASWELL WOODY.
Forty-niner, now camping with Yancey.

Beckwourth, the famous scout and ex-Crow chief.

When Yancey entered the door Jim was playing poker with a stranger, who, on a flush, put it up to $200. Jim raised to $500. The stranger called and Jim laid down 2 pairs of queens.

The incident was curious because Beckwourth so rarely played, and because it showed the scale on which the early Californian conducted all money matters.

Beckwourth drank seldom and little. He was simple in his tastes and habits and straightforward and gentle in his manner. Occasionally when much interested in the talk he spoke rapidly, "like he was hot."

In general Yancey corroborates the story, as published in Bonner's "Life of Beckwourth," and especially lays stress on the fact that Jim was the biggest liar West of the Mississippi. Nevertheless Yancey attests the truth of some of the most incredible parts of Jim's history and supplies some personally descriptive information that, strangely enough, was omitted by the historian.

Beckwourth, he says, looked like a mulatto, or might have been an Indian, but for his kinky hair, which he wore at full length. He was about 5 feet 11 inches in height, and had enormous chest and shoulders, with muscular strength to match, for he weighed 190 pounds, in training. He was a man of reckless courage, a fair revolver shot, an expert with knife and rifle, and had a weakness for getting married. The quickness of all his movements was his most remarkable attribute. This applied also to his running, for he had legs like those of a deer and lungs like those of a greyhound. He was never beaten in a foot-race and Yancey gives full credence to the story that Beckwourth once, when pursued by the Sioux, ran 95 miles in 24 hours.

According to Taswell Woody, a common report is that Beckwourth moved to a ranch South of Denver, in 1864, but in 1867 became possessed of a longing to see some of his old time Crow companions; and setting out North he joined a band of

J. H. MOORE—"OLD PIKE."
Came to Montana in 1865.

his old tribe near Clarke's falls of the Yellowstone. The band was almost immediately surrounded by a Sioux war party and every one, including Beckwourth, killed by their relentless foe.

Yancey doubts this story because he himself lived among the Crows, from 1871 to 1877, and heard nothing of it. Many of the older people talked about Beckwourth, their former chief; but by the younger generation he was quite forgotten. So much for a race that has no system of records.

Yancey believes Beckwourth died on his ranch, near Denver, in 1867; being then over 70 years of age. Among the Crows he saw an Indian, named Crazy-Head, who

was said to be one of Beckwourth's children.

Taswell Woody, the well known guide, whose portrait I give, is a Missourian by birth and is one of the few remaining 49ers. He went with the great rush to California, in '49; then with the stampede to Australia, later to British Columbia and is now going to Alaska. He is well known to many Easterners, not as a gold hunter, but as one of the best hunter-guides in the West.

Away back in 1865 2 mountaineers, named J. H. Moore and —— Miller, better known as "Old Pike" and "Horn Miller" came into Montana to make their fortunes. They have made them, or have been within one

TOM DUFFY.
Ex-Deadwood stage driver.

jump of making them, many times since then; and they are still pegging away, hopefully, together. They came through and stopped at Yancey's the other day. I got a sketch of "Pike," but "Horn," who gave the name to Miller's creek, escaped me for the present. When these men first saw the Yellowstone, in 1870, the slopes of the valley were darkened with buffalo; and the great broad-fronted skulls strewn about every hollow, abundantly attest the truth of their accounts to-day.

Tom Duffy, whose portrait appears on this page, is a good type of the straightforward, frank plainsman. For 4 years prior to 1882 he drove the Deadwood coach, from Laramie, and was secured by Buffalo Bill to drive the old coach when the "Wild West Show" went to Europe.

During March, 1882, the great Dakota blizzard took place. I remember it only too well; for it occurred as I entered the West for the first time, and I was snowed up 19 days, South of Pembina. Away down at the other end of the storm Duffy was driving his 6 horses and had one of his many narrow escapes from death. It was of course impossible to keep the trail. All he could do was to keep the horses moving. Next morning he was 12 miles off his road but he reached a place of safety. One half his face was so severely frozen that it was 2 years before he fully recovered; but he was lucky. Duffy had no passengers this trip, but the other coach had 3, all of whom were frozen to death.

* * *

Here by the camp fire we sit, my wife and I, amid the historical scenes, in this ancient land of the Crows, surrounded by land-marks that to the Old-timers, tell endless tales of joy and sorrow, human suffering and human heroism. Here I am gathering the fragments of their past history, recalling my own early days in the Northwest, and while hearkening to the wild tales of the mountains and of the past there comes over me a strange feeling of sadness, that almost shapes itself into the question, "Why was I born too late?" Then common sense reminds me that the glamour of memory and romance is over it all; that 20 years from now the present will wear the same charm for younger men, and that, after all, the best, the very best of all times, is the living present.

* * *

A SONG OF THE WEST.

A meadow lark sang as the sun went down,
He sang in the dying glow.
He stirred up my heart with his artless art,
And his song of the long ago.

REFRAIN.

He sang me a song of the West, the West.
He set all my feeling aglow.
He brought back the days of my youth with his song,
His song of the long ago.

A coyote howled when the light was gone,
A voice on the wind from the East;
My horse turned his head from the place where he fed,
He heard but a hated beast.

REFRAIN.

But he sang *me* a song of the West, the West, etc.

A Sioux in his teepee away in the night
Drummed a chant of the "Buffalo days."
Till the men with me swore at the savage uproar,
And cursed him, his drum and his race.

REFRAIN.

But he sang *me* a song, etc.

The moon in the morning was still in the sky,
But the mountains in day were aglow,
And the girl by my side—the blue-eyed, my bride,
Sang, but not of the long ago.

REFRAIN.

She sang me a song of the West, the West,
Swept sorrow and worry away;
She stirred up my heart with her tuneful art,
And her song of the strong to-day.

ADRIFT ON AN ICE FLOE.

PETER AWICK.

On a bright day in June, a party of 5 Arctic travelers and 3 Eskimo hunters left the shore, to make their way over the ice floes to a ship, seen some miles away. She was steaming about to prevent getting caught between the immense floes, which were being twisted by the tides.

Between the floes were leads or lanes of water. These we crossed, with our dogs and sleds, by traveling along the leads until a loose "pan" of ice was found. Upon this we clambered, when it was pushed away from the solid ice with harpoons and poles. It was slow work crossing, but gradually we would near the opposite side, using the harpoon shafts for paddles. When within about the distance a walrus-line would reach, one of the Eskimo would coil his line, made from seal skin, and, fastening one end to his spear-handle, would throw it, to stick it into the ice. Holding to the other end of the line, as soon as the spear was fast, he would begin to pull, very gently, just enough to keep our raft moving. Safe on the floe, the Eskimo whipped up the dogs.

In this way several leads were crossed. After driving over an immense floe in which were several icebergs, we arrived at a very wide lead. In vain we searched for a loose piece of ice. The ship appeared to be steaming away, and the lead was getting wider and wider. We tried to retreat, but found we had drifted some distance from the last floe, and the pan which had served for a raft had drifted beyond our reach.

We now realized that we were prisoners on an ice-floe, drifting out to sea.

When we had been out for nearly a day, we thought it best to try to sleep. The sun was warm; at this season, shining brightly throughout the 24 hours. After a hasty luncheon—we had little food—the dogs were secured; then, planting the harpoons in the ice with signals fastened to them, we lay down on the ice for a rest. We hoped the ship would see the signals and come to our relief.

The rest of the party was awakened some hours later by one of the Eskimo, exclaiming: "The ship has gone!"

Shivering, I opened my eyes and glanced about. The ship was nowhere to be seen. The landscape had changed; the high cliffs with their picturesque rocks forming figures of castles and men, covered here and there with patches of snow, which had loomed up near us when we lay down, were now specks in the distance. Our big ice raft was being carried out by a strong current. A storm was threatening, so we began to look about for shelter. The floe was perhaps a mile in length, by half as wide. Several icebergs were examined in the hope of finding a cavern. Finally a small cave, scarcely large enough for all to squeeze into, was found. However, the Eskimo soon built an addition with blocks of snow and ice. In an hour we had a comfortable shelter, with a hole through which we crawled on our hands and knees. When all were in, the opening was closed with a block of snow.

The Eskimo carried on their sleds a number of seal and reindeer skins. These were brought inside and spread around for us to sleep on. We had 2 rifles and plenty of ammunition; so except for food, we were not badly off. One of the natives, who had been out for some time, came running to the opening, exclaiming: "We now have plenty to eat. I have killed a seal."

The best parts of the animal were cut off and laid in a niche in the ice, away from the dogs, while the refuse was fed to those hungry brutes. A big piece of the seal was passed through the opening, and when all were in and the opening closed, we began, in true Eskimo style, to eat the raw meat. The chunk was passed around, each man cutting off a mouthful as it came to him.

The natives had several tin cans on their sleds, that had been picked up at our camp on shore. These, later, served for utensils in which to boil meat. Water we obtained from holes in the icebergs. The heat of the sun was strong enough, for a few hours each day, to melt the snow in the most exposed spots. With some moss which the natives had, and fat from the seal, a fire was built. We now huddled together for a rest. The storm—snow and wind—had begun, and the dogs on the outside howled dismally.

One by one we fell asleep. Some hours later a rush of wind awakened everyone.

Notes for a future trip -

For the Camera - a good finder is essential - & the Cartridge daylight system of ~~plates~~ films is the only good one -

Now again to Yellowstone Park

Take more canvases & less accessory board -
Take umbrella & guns to in trunk -

For Saddles. get a good smooth leather, double Cinched wooden-stirrupped, long a-pommel, narrow-tread - about 15 lbs -

Tent - a small A tent for 2 or else a teepee depending on kind of country -

my Hat was too heavy & too wide - a soft white felt with medium brim - say 3 inch - is best. should be as light as possible

my shoes (golfers) were good for climbing but bad for riding - For

Pants. get a pair of buff moleskin - & wear a pair of short light smooth cotton drawers & put rubbing of saddle - keep my neither clothing light

Bedding. one good double bed with air rubber mattress is better than of Kenwood bags or cot beds -

Tent. a very small A tent or else a Teepee

Camp utensils. get dishes etc of good nested kind all nest to fit in each other -

The ~~hills~~ mountain sides are carpeted with bluebells just now – I remember once reading a fine ~~thing~~ bit on of music – music in space ~~doesn't exist~~ is measured by the eye – music in time by the ear – all things that move in time – ~~in that power~~ are demonstably musical – ~~these~~ all things that grow move in time & it is only the blunders of our senses that hide from us the secret rhythm they produce – The weaving away of the hills, the march of the clouds, the pushing of the grass, ~~the~~ blossoming of the orchard are boy's delight in music as grand or as sweet as thunder ever was but hear – and these mountain sides, as we see them drifted over with a blue ~~fog~~ soft film of a ~~billion~~ billion blue bells – close there are dull ears that persistently ignore in our ~~those~~ great storm ~~of these~~ that music as matchless as the tents.

note books. This one is good in paper & in size but much more space should have been given for sticking in sketches etc –

An Injun' got his dander up
And vowed he'd do some ~~skinnin~~ killing';
He bound a stone upon a stick
To do it with – the villain!
He fixed it up with feathers bright
And blood-red paint galore;
He made a horrid handle grip –
And lo! this club of war!

But as he worked with savage vim,
His dander simmered down;
He'd worked his angry humor off,
He couldn't even frown.
And so he took that wicked club,
Gave merriment new lease,
He bored its stem and fixed it up;
And lo! this pipe of peace!

1875 1896

Great Montezuma made a guild, of all his men of brains
Who got their inspiration on the mountains and the plains
Some were rulers some were priests but most were craftsmen skilled
And all had given the world ideas who entered in their guild
The Thunderbird their emblem dwelt where clouds & peaks confused
And the only test of membership was what has he produced

Now royal Montezuma's gone, his empire turned to dust
But who will say the bird has flown, or that the guild is lost,
No, no, the inspiration of the Wild West new flags
The spirit of the Thunderbird still haunts its ancient crags
The guild still lives its tribute gives, refined by memories sad
And when the brethren meet [by chance] [as now], they know it & are glad.

To Ed Kenny

for F. S. Thompson

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Birds of Yellowstone Park
1897

These observations made during June July & August of 1897. are unfortunately based wholly on opera glass identifications. In some cases this is quite sufficient, in others it opens the way for error. It is contrary to law to do any collecting in the Park & half the smaller species ~~to~~ encountered are omitted because the only certain mode of identification was not available.

~~Pelecanus erythrorhynchos. White Pelican. over one hundred pairs breed on a small Island in the South of Yellowstone Lake.~~

Larus argentatus Smithsonianus. Herring Gull.
Thirty or forty pairs of this species were found breeding on Gull Island in Yellowstone Lake August 5th.

2 Larus delawarensis. This species was found breeding on Gull Id. associated with the foregoing

3 Sterna tschegrava Caspian Tern. About a dozen pairs of this species were found breeding on Bell Island. The downy young took to the water when I landed & swam or drifted away a quarter of a mile or more.

Pelecanus erythrorhynchos. White Pelican. Over 100 pairs were found breeding on Bell Id. Yellowstone Lake. on Aug. 5th. ~~the~~ East species there had its own recognized area, the Caspian terns on the pebbly bar, the gulls among the large stones, and the Pelicans the great sandy beach of which the island is mainly composed. The whole place stank of dead young Pelicans in all stages of youth & decomposition. When we landed the living young, some 200 or 300 took to the water in a body, by pursuing them in the boat we got near enough to photo. The gawky creatures were not summer & were soon overtaken, they peeped plaintively in their distress & worked very hard with knees & elbows to escape, and yet in

their accident-lover they never suspected to disturb any one bird that passed within range at the moment, & they were far from scarce.

5 Merganser americanus American Merganser or Sheldrake - common Breeding about Yellowstone Lake -

6 Anas boschas Mallard. Common breeding

7 Anas carolinensis. Green-winged Teal. Abundant breeding.

Glaucionetta clangula americana. Bufflehead.

8 Charitonetta albeola. Bufflehead. Common breeding.

9 Branta canadensis. Canada Goose. Reported breeding.

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10 Olor columbianus. Whistling Swan. Said to rest in migration if not breeding formerly on Swan Lake & other large sheets of water. Lieut. Lindsley says they still nest.

11 Grus mexicana Sandhill Crane. breeding & said to be common. Lieut Lindsley says numerous.

12 Porzana carolina. Sora. abundant in all marshy places

Bullfrogs

Gallinago delicata. Snipe, Jacksnipe. not common, noted only on Lost Creek near Jamieys and on Swan Lake Flat.

Actitis macularia Spotted Sandpiper. common.

Ægialitis vocifera. Killdeer. common.

(note near Bullfrogs)

Dendragapus obscurus richardsonii. Richardson's Grouse. Blue Grouse. abundant in & about the Park. Taken near Gardiner. Specimens show no trace of the terminal tail bar of gray.

Bonasa umbellus togata. Pinewood Partridge. abundant in the pinewoods. Those taken north of Gardiner seemed to be straight togata.

Zenaidura macroura. mourning dove, abundant in all the open parts of the Park.

Pedioecetes phasianellus columbianus. Western Sharptailed Grouse. ~~Reported~~ "There are a few sharptailed grouse. but in the main the altitude is too great for them" Grant E. Lindsley.

Centrocercus urophasianus (Bonap.) Sage Grouse. "Have been seen in the Park but a very uncommon." Grant E. Lindsley.

Accipiter velox. Sharpshinned Hawk, common. Taken near Gardiner.

Buteo borealis calurus. Western Redtail. very abundant.

Buteo swainsoni. Swainson's Hawk. Common in the open sections.

Haliaëtus leucocephalus. Bald Eagle. I saw but one. The eagles of the Park are chiefly Ospreys.

25 Falco sparverius. Sparrowhawk - abundant and conspicuous everywhere by its constant warning on the larger birds of prey during its nesting season.

26 Pandion haliaëtus carolinensis. Osprey or Fish Hawk. This is the Fish Eagle that ~~nests~~ has conspicuous eyries ~~also~~ on the Gardner River & along the Grand Cañon.

Bubo virginianus subarcticus. Western Horned Owl. Common. Its loud Hoo-hoo is very familiar on dull evenings or moonlight nights in the heavy woods about Yancey's.

Ceryle alcyon. Kingfisher. Common along the lakes & large streams.

Dryobates villosus hylocopus Cabanis Woodpecker. Somewhat common.

Dryobates pubescens homorus. Batchelders Woodpecker. Common.

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31 Sphyrapicus thyroideus. Brownheaded Woodpecker. Saw a few only - took specimen near Gardiner.

32 Colaptes cafer. Redwinged Flicker. Common

33 Chordeiles virginianus henryi. Western nighthawk. Common.

34 Trochilus rufus. Rufous Hummer. Abundant but they all disappeared in July.

35 Tyrannus tyrannus. Kingbird. Noted only near Gardiner. On entrance to the Park. Not common there. One taken

36 Empidonax wrightii. Wright's Flycatcher. Taken ~~at~~ near Gardiner in August

37 Empidonax hammondi. Taken near Gardiner in August

98 Otocoris alpestris arenicola. Desert Horned Lark. Common in the open region especially on the uplands of the Blacktail between the Mammoth & Yancey's.

99 Pica pica hudsonica. Magpie. Common about Mammoth Hot Springs in Summer. I have heard in winter at all the Springs, but I saw it at the first only.

100 Cyanocitta stelleri macrolopha. Long crested Jay. Rocky mountain Jay. Common in the woods.

101 Perisoreus canadensis capitalis. Camp Robber, Gray Jay. Abundant.

102 Corvus corax sinuatus. Raven. Common everywhere, in the woods.

103 Picicorvus columbianus. Clark's ~~Nut~~ Crow one of the most conspicuous & abundant birds of the region.

44 Sturnella magna neglecta Western 172
Meadowlark. Very abundant in all the open parts & of course wholly absent from the forest regions

45 Icolacophagus cyanocephalus Brewers Blackbird
Extremely abundant, breeding in the low grasslands that border the beaver meadows.

46 Carpodacus cassini Cassins Purple Finch.
Common, especially about Yancey's.

47 Spinus pinus Pine Siskin. Found it common & took a specimen near ~~about~~ Jardiner in August. No doubt it breeds in the Park.

48 Pooecetes gramineus confinis Vesper
Sparrow. White-tail. Very abundant in all the open parts of the Park. Taken near Jardiner.

49 Zonotrichia leucophrys ~~intermedia~~ (?) White crowned
Sparrow. One of the most abundant of the species dwelling in the edges of the woods.

50 Spizella pusilla arenacea. Western Chipping Sparrow. Com. (apparently arenacea 7 W.C.) taken near Jardine 176

51 Spizella breweri. Brewer's Sparrow. I collected one of these out of a small flock near Jardine in August so doubtless it is a summer resident of the Park. (174)

2 Junco annectens. Pink-sided Junco. One of the most abundant woodbirds of this region. Took several near Jardine.

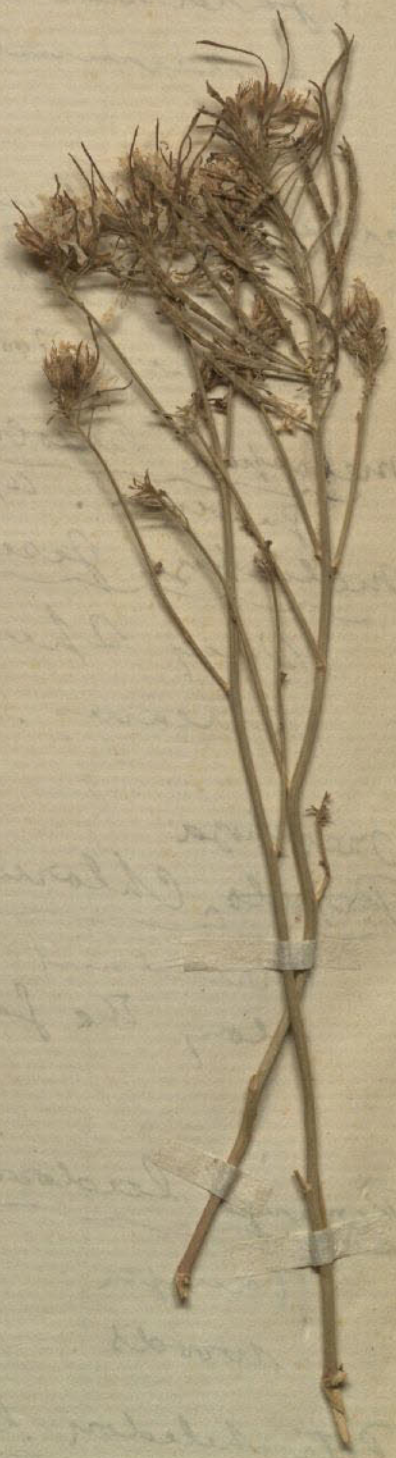
3 Melospiza lincolni. Lincoln's Finch. Common. Taken near Jardine. Apparently breeding.

54 Melospiza fasciata montana. Mountain Song Sparrow. Common along the streams.

5 Oreospiza Pipilo chlorurus. Green-tailed Towhee. Very abundant in the thickets, especially along the Jardine River. Specimens taken.

6 Piranga ludoviciana. ~~Lo~~ Crimson headed Tanager. Very abundant in the woods.

7 Petrochelidon lunifrons. Cliff Swallow. This is the species that nests in such numbers about the military stables of Fort Yellowstone.



Thalassina violet green

Tachycineta ~~bicolor~~. Tree Swallow, Very 176
abundant.

Tachycineta bicolor. Tree Swallow. apparently
abundant.

Vireo gilvus Warbling Vireo. common
Specimen taken near Gardiner.

Helminthophila celata Orange crowned Warbler.
Taken at Gardiner in August, Evidently breeding.

Dendroica aestiva. Yellow Warbler. Common
in the thickets along the streams.

Geothlypis macgillivrayi. Macgillivray's Warbler
Taken at Gardiner in August

Geothlypis trichas occidentalis Western
yellowthroat. Very abundant in low
thickets

Wilsonia pusilla. Wilsons Warbler. Taken at Gardiner
in August.

Cinclus mexicanus. Dipper abundant
along the yellowstone & the larger affluents.

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Salpinctes obsoletus. Rock Wren, are abundant & conspicuous species in the ~~other~~ mountainous canons & rocky ridges. Specimens taken near Gardiner. (178)

Sitta carolinensis aculeata. Slender billed Nuthatch. Not common. Collected at Gardiner.

Parus atricapillus septentrionalis. Long tailed Chickadee. Common. Collected at Gardiner.

Parus gambeli. Mountain Chickadee. Abundant especially about Fort Yellowstone. Taken near Gardiner.

Turdus fuscescens salicicolus. Willow Thrush. Very abundant in the low woods & alder thickets.

Turdus aonalaschkae auduboni. Mountain Hermit Thrush. Common.

Merula migratoria. Robin. Very abundant

Sialia arctica. Mountain Bluebird. Abundant

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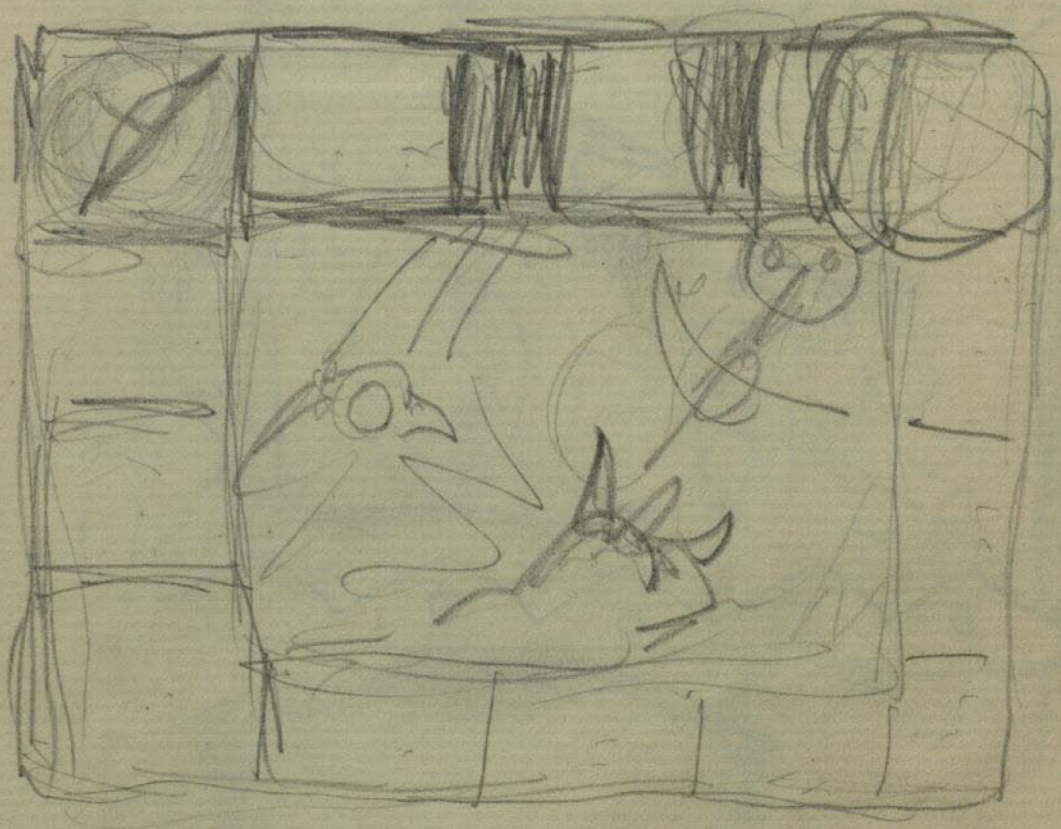

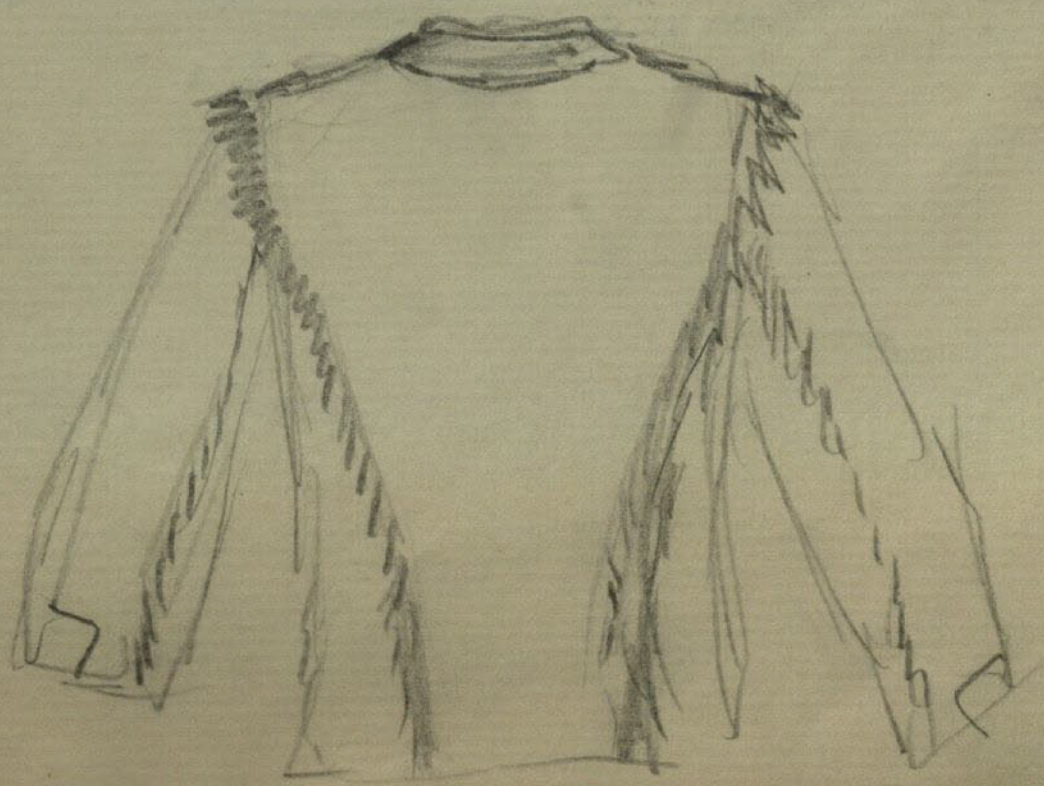

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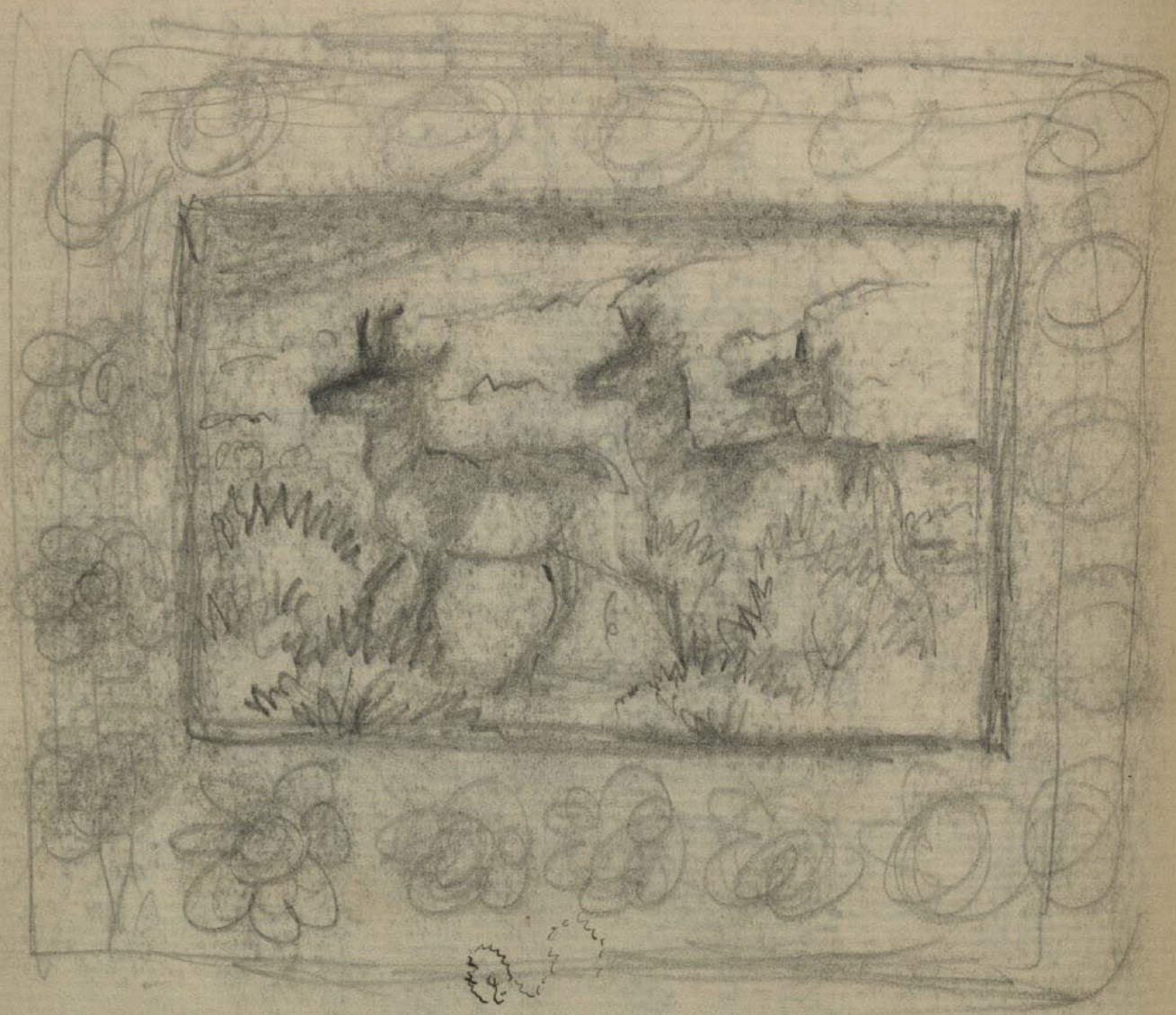

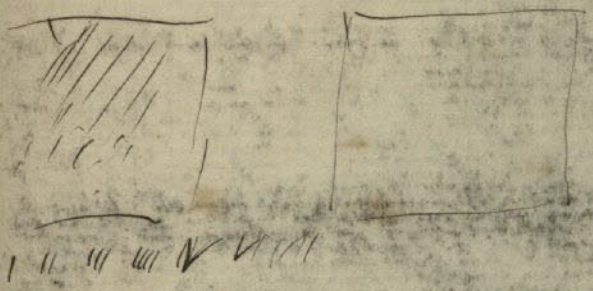

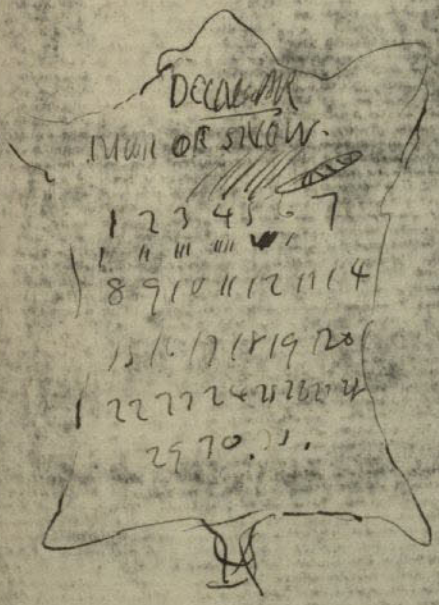

MAR. Snow Thunder.

MAY. Leaves.

JUNE Leaves

Sept

July strawberries

August

Oct

186

Mem.

As soon as we return to N.Y.,

Send O. Godfrey of Yel. P.K. the Rain in the face" aut of Custer fight. Markell Mag. Dec. (96) 180 Lenox St Boston.

Notify Mrs Brown of our return

Send Col Young Omar Khayyam Show vermuth -

" Mrs Forsyth. Sugar Loaf

" Calalope of Birds to Cory

Buy. Wallace Devolopment of a Solar.

Send #1 to Jack Carrigan. Fort Yates N.D. for small bags &c. - bridle pendants &c. similar to those got by E.A. Burbank 26 E. Vanburen St Chicago —

At Crow agency took up Capt. R.N. Cummings. married to a Sioux woman speaks Sioux. knows much about Sioux customs like any Skin white —

121
72572

Original idea for Mrs Cockerell's Quilt
drawn at Gardener Street when Hope
asked for a sketch to be made by the
Quilt & they [illegible] there