

O.W. Lucas

Record of Boxes shipped on Monday Jan-6- 1878

Box 26, Fossil No 1.
1 Dorsal & 5 ribs.

Box 27, Fossil No 1.
Dorsal No 4 & pieces of D No3 Rib
1 bundle of p'. & 2 bun of No 2 a

Box 28 Foss No 1.
Dorsal No 2.
Rib & chevron 5 Bun of g Foss No 2
1 " " b " " "
1 " " d " " "
rib " " "

Box 29, Foss No 1.
Fragments of vertebrar & other bones.

Box 30 Foss No 1.
Dors. No 5. Rib small vertebrae of this form (.) and pieces of other bones found at same place. Among these fragments I found a small piece of jaw with parts of 3 or 4 teeth of Canlodon, which find in box 46. Sent by Express these pieces found near the old _____ diggings.

Box 31. Foss No 1.
Dors No 6. (Leg bone of No 2)
G draft

Box 32. Foss No 1.
Vert. of Cam Sup and 8 bundles of Femur marked No 2 h.

Box 33. Dorsal Vt. 1 rib.
Fragments of rib. 1 Bun of f= C vert. 1 B of fragments

Box 34. a parts of ribs
b 2 bun caudal vt. c 2 bun2 bun chevron bone
d. 2 bun. Cau vt. e. 1 bun caudal
f. 1 b caudal, g. 1 bun process of caudal, h. 1 bun,

Box 35. h 2 b, small c. vert. i. 3 b c vt, j. 1 b rib,
k. 1 b rib, l. 2 b ribs

Box 36. l. 2 b ribs. m. 1 b rib n. 1 b ----, o. 1 b rib, p. 1 b rib,
q. 1 b rib, r. 2 b rib, s. 2 b c vt, t. 4 b c vt, u. 2 b c vt.

Box 37. v.- c vt. 1 b, w.- c vt. 2 b, x.- c vt. 2 b, y.- c vt. 1 b,
z.- c vt. 1, p- rib 1, a', c vt 1, b'- c vt 2, c'- c vt 2.

Box 38. c' c vt 1, d' c vt 1
e' ilium 4, see draft g' ~~coracoid~~ 1 (ilium) see draft (remainder in
Box. 39 & 40)

Box 39. g' ~~coracoid~~ (ilium) 3, j' parts of ribs 5, k. toe 1, m' - 1,
o' c vt 1, p' - 5,

Box 40. P' - 1, 1/4' ilium 1, t' - 3, u' -9,

Box 41. y' c vt 3, z' c vt 1, b" c vt 3,

Box 42. a" c vt 3 1, b" c vt 2, d" c vt 2, e" see draft 3b 2b

Box 43. e" - draft 1, g" toe 1, h" spinal process 3, l" - 3, No 2. E-1,

Box 44. 1 large cervical
1 small cervical and fragments.

Box 45. Dorsal fragments of vt, & frag- of rib
[note written over; "Cleaned June 1-7, 1944 P.K. ? Box 245]

(20 Boxes in all.)

Some of the above boxes were packed during my absence. I see by the record kept that in several instances parts of the same bone are in two or more boxes, also some of the letters are skipped over. The letters thus skipped were in most cases sent in former shipment, the bundles of convenient size to pack in with other bones. If you unpack all of the boxes and put all of the bundles of each letter together before opening the bundles there will be no difficulty. All of the above Boxes were from vicinity of No 1.

Original in the archive at the American Museum of Natural History in New York.

[This document is badly water damaged. Also the right side of the first page did not copy for apparently 1 inch. The left side of page 1 is also not all there.]

15 Boxes in all weight-386
Record of Boxes shipped Aug 28
O.W.
Box 55. K A large fine anterior cauda...
I " " " "
2/3 of very small Caudal vt. 2 small s...
Caudals. 2/3 of small round vt. 2 p...
representing 3 or 4 small grown ...
F Caudal vt. Small caudal, flat a...
3 foot rib with $\frac{1}{2}$ prong gone. 3 sec...
...rit. Together 2 ft long. 4 sec- of large r...
many pieces of ribs.

Box 56 L. medium caudal. per...
... samller than L ...
N. O. ... caudals good. R ...
... rib. S 2/3 upper end of ...
... medium sized ribs, g...

Box 57 Femur of Amp...
... of g... one side. ...
bone. ...
of same ... Box 58 ...

Box 58. 2 bundles of pelvis bone, remainder in Box 57. About $\frac{1}{2}$ of Sacrum either of Amph. altus or C. Sup. The centra being chambered like C. Sup. very different from the sacrum formerly refered to C. Sup. Very badly broken.

$\frac{1}{2}$ cervical vertebra of C. Sup.
2 small long & flattened vt. taken from sand rock.
2/3 lower end of rib, $\frac{1}{2}$ of upper end of large rib.
 $\frac{1}{2}$ very large rib upper end.

Box 59. [?] of Dorsal of C. Sup. One small Caudal. 2 ribs Pieces of Sacrum[?] found near fermur in ... draft ...
[Rest of page is essentially illegible, Box 61 is in the area which is gone]

[Right 1" of page three also missing.]
Box 62. Centrum of vt. of Amp...
Found about 15 ft from vt. of Am, ...
limus.

Original in the archive at the American Museum of Natural History in New York.

Oramel Lucas to Cope regarding his 1878 work and getting an "agent" to take over for him:

Oberlin Ohio
Feb-10-1879

Dear Prof Cope,

Your card is rec'd. I had neglected sending you a list of bones on account of pressure of work for a few weeks past. Nothing has been done in the work of taking out the remainder of the 2nd Cam Sup. Since I left Colorado- It is my purpose to resume the work thro an agent before long do not know how soon. The bones already out are as follows.

Axis vt, 1 cervical vt small. 6 Dorsal and Lumbar vt. The Sacrum with nearly complete processes. 33 caudal vt of all sizes from 2 inches to 14 inches in diameter.

2 Illium " Complete

3 Ischium "

These with the Sacrum makes a complete Pelvic girdle and one Ischium of another animal. The Illium bones which you have are only 2/3 complete, or entire.

1 Caracoid, 1 Scapula out and another partly out.

The posterior portion of lower jaw with teeth. I found other bones which are not yet out, namely a large cervical vt, 6 or 7 D & L vt, and a few less important, perhaps fragments. The prospects are that the Femurs are but a little farther in the bank.

Truly O. W. Lucas

Original in the archive at the American Museum of Natural History in New York.

Lucas to Cope regarding a possible find of "mastodon bones" in a test shaft near Silvercliff:

Cañon City, Col.
Aug 6th, 1879

Dear Prof. Cope,

I have visited Silver Cliff as you desired, and find that the teeth are not "Mastodon".

A piece of the jaw was found and thro the idle curiosity of one of the miners this was broken up. Besides this, a part of a leg was found and taken out but was in very poor preservation.

All that I now get trace of besides what may be in the ground is one tooth sent to Marsh a piece of jaw containing one and a half teeth, and a piece of jaw containing two good teeth, this last being the best specimen I have in my possession and have packed ready for mailing. This piece I obtained only by paying \$10. (ten dollars) for it. The other piece of jaw is held by the Superintendant of the Silver Cliff Mining Co, and he is going to send it to Prof. LeConte, (I think this is the name) a man who has published a work on Geology and lives just north of San Francisco. This piece I could not obtain.

The bones were found 30 ft below the surface in a very solid bed of earth. almost rock in hardness. From this down to the bed rock is three or four feet. The bones are of a comparitively recent deposit. The remainder of the bones will not be disturbed until further arrangements are made, for it will greatly injure the shaft to take out more of it. This can only be done by suspending for a time the work below, building a platform in the shaft and drifting in at the side and timbering up as the earth is taken out. The "mine" (ie Cedar Rapids) is only a prospect shaft some 45 ft deep and the men are still sinking down on it. It is some distance from the Silver Cliff, hence I was abliged to stay over one stage and therefore it has taken three days to make the trip.

My expenses were as follows

Fare from Cañon City to Silver Cliff and return-	\$7.00
Hotel bill and meals on the road-	\$3.50
Wages for the 3 days @ \$3. Per day-	9.00
For fossil-	10.00
Postage	.30
Total,	\$29.80

Lucas

8- P.M.

Your card from Evanston about box sent from C.S. is rec'd. all right,
O.W. Lucas

Ira Lucas to Cope regarding progress in his work and a contact with Felch:

of 4

Cañon City Colo. 10-13-1883

Prof. E.D. Cope

Dear friend

I have been thinking for some time that I ought to send you a report of some kind of what I am doing.

I have taken out over 25 Bones besides some small ones I have not counted. These have been taken out S. of Saurian Hill near the N. end of the South Twin Fort. There are 5 or 6 vert in one pile one or two of which are some like the rough sketch a. parts of all are badly decayed or gone and near by are several Caudal vert badly decayed & broken. These are somewhat like sketch b. I suppose that a part or all of these belong to Cam. Saur. As you had so much of this I thought that I had better defer work on them until I had heard from you.

I commenced work here because brother took out several good bones of Amphicoeleus & I was in hope of finding something of the kind you wanted and probably some new forms. And I think I have found some new forms. At least some of them are new to me. I will make & send you rough sketches of a few of them if I can get time to make them. I have set my man at work in the side of the bluff about 150 ft. N. of pit of Cam. Saur. Sup. No 2. where I found some pieces of a massive

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bone and part of a centrum. He has got into the marl far enough to find some pieces of rib & small pieces of bone I am in hope of finding something new and good.

I have at different times in passing a certain point after a hard shower picked up Centrums from 1¼" to 1½" long. & several fragments of other bones (these centrums were without processes) I had thought that perhaps they were turtle bones & of no particular value. But lately I had a little spare time in which I went & dug there & found a vert. almost perfect which I will mail to you & you can write whether I shall send what I have. And whether I shall work some more on it & see if I can find more. I think now that it is not a turtle and hope that it may prove to be something new.

If you would send me your Buletines & such plates as are issued of all newly found bones & reports of work for the U.S. I could probably better judge of the value to you of any bones I may find.

Marsh is sending Felch all such from time to time to aid him in his work. Felch has lately found bones of what he thinks is a new species. The humerus is about 2'-0" long and femur a little shorter it has strong claws. He is getting most ~~most~~ of the bones. They are hollow-joints large and well rounded- lengths of other bones I cannot give. I am about out of funds as I have had to pay as I went. mans wages and all. I hope that you can send me some means immediately- You remember that our contract requires payments from time to time. I commenced work July 26th & have worked more than 2 solid months. I have a splendid man

to work & would like to engage him for next summer if you want the work to go on

10-13-1883 3 of 4

Bone No3 is very much different from any vert. I have hitherto taken out. You see by sketch that ends of Diap. [?] are gone & also most of Centrum. You have a view of cap side-body of bone quite thin from front to back. I will not now take time to give sketch of side. I think I sent you a sketch of Bone No 4. which I think is the largest part of a pubis. Bone No12 was found lying next to No 13 & if it had ever been Coossified with it it had broken off at the joint. The processes of No 12 are not shown. No 13 is badly broken & very much of it gone.

Bone No 14 is quite peculiar in some respects. Ball is almost flat- a peculiar deep hole at base of N. Spine

No 15 is a very good specimen. entirely different from any I have found previously I give 2 views of this.

No 16 also is new to me. Loops [?] and processes are partially gone but enough are present to judge pretty well of former shape.

No 18 is quite good what there is of it. I also have a femur 5'-7" long and an Ischium I think- several Caudals. Another, a modification of No 23 – it is numbered 22, & several others. I have 3 Bones packed & hooped & and bones enough to fill 4 or 5 more bones & perhaps more of the ordinary size. I think without a doubt there are other places near here at which good bones can be found. Do you have any idea of sending a party to the western part of the state to procure fossils.

For the time I have worked

4 of 4

I have obtained a large amount of bones, some of them are the Cam. Saur. Sup. But many of them are of other kinds.

The shells I enclose with the bones are from a hard limestone just under where I found the bone. Please write me what you call the animal from which this small bone came & also names of those the sketches of which I send.

Yours truly
Ira H. Lucas

Original in the archive at the American Museum of Natural History in New York.

Ira Lucas to Cope regarding shipment which contains a skull "like Felch has found":

Cañon City 1-17-1884

Prof. E.D. Cope

Dear Friend

Last evening I received yours of the 12th Containing Dft on N.Y. for \$250.00 I am very thankful for the favor.

Yesterday I shipped 8 Boxes to you

No XVIII also marked Sk is the Box containing the skull. It is the smallest Box.

If you can possibly tell me when you would want me to commence work again, it will be of great advantage to both of us as I can engage the man who was with me last summer if I were certain that you would want work resumed again next spring. He is a first rate hand. I have to pay him more than ordinary & he does good work. He is a pleasant man to have & therefore I want to keep him if I knew you would want the work to commence soon.

Did you receive a small vertebra by mail- what is it? I have been tracing the fossil strata here & think that this skull I send you is in the same one in which Marsh's man is at work & he tells me that he found 3 or 4 this last summer.

I suppose that I will have no opportunity to secure any skulls except to dig for them.

If you have an opportunity to secure any reports on Geology & Paleontology please remember me.

Yours truly

Ira H. Lucas

P.S. I send a list of Bones in these Boxes.

Original in the archive at the American Museum of Natural History in New York.