

[1896]

University of Pennsylvania  
Linnæus Exped.  
Summary of  
Account of H. C. Mercer.

Received from Treasurer for Exped } \$ 299. 52 -

Spent on expedition } \$ 294. 48 -

Owe Treasurer the difference } \$ 5. 04.

herewith enclosed.

Henry C. Mercer.

See changed acct within

V. of Pa Term Expnd  
1896

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Account of  
H. C. Mercer

Received from  
Mr Clark  
for Expnd. } \$150.00

Received from  
Mr Clark  
April 24 1896  
for Expnd } \$149.52

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Total \$299.52

Henry C. Mercer.

U of Pa Term Expd  
1896

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Account of  
H. C. Merceer

Spent for }  
expedition } 140. 48

Gave Joseph }  
for expedition } 123. 00

Gave Joseph }  
for wages } \$31.

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Total \$ 294.48

Henry C. Merceer.

Acct of H. C. Merce with Tenn. Esmd 1896  
 Tennessee Expedition of U. S. Geol. Surv. 1896  
 Spent myself H. C. M.

Thermometer + case	\$ 2.00
Blank Books	.65
Erasers	.10
Specimen bags	7.33
5 bottles India ink	1.25
Map of Tennessee	2.00
7 doz. Cabinet 4x5 photo. plates	3.99
2 Tickets Memphis to Morry Crk. Tenn	38.80
Working gloves	1.35
Softy pins	.06
Dinner dining car.	2.00
Sleeping Berths Washington to Morry Crk.	4.00
Breakfasts at Pulaski	1.50
Fees to car porter	.20
Wagon Morry Crk. to Mr. Terkes	2.00
Board and wagon at Mr. Edgors Terkes cave	8.00
Part of wagonfare Morry Crk to Indian Cave	.50
Pair woolen socks	.35
Tickets from Knoxville to Chattanooga	6.62
Driver at Chattanooga	1.25
Two meals at Chattanooga	1.40
Photograph of Lookout Cave	.25
Can brown bread and can opener	.30
Two cans baked beans	.30
Dinner at Chattanooga	.60
Express on lost coat	.35
Total,	\$ 87.15

Breakfast and fee Pullman car.	1.20
Cocoa and condensed milk	.70
Supper Chattanooga	.65-
Miner ..	.75-
" "	.80
Supper ..	.50
Strawberries ..	.40
Tricinette	.25-
Board at Lookout Mountain	\$ 25.00
Freight 5 boxes from Chatta. to Knoxville	3.57
Trolley	.10
Registered post.	.22
Wagon to Carrol's Cave	2.50
<del>Paid for maintenance in above on wages May 1st</del>	<del>3.00</del>
Miners Tullahoma	1.20
Board .. ..	4.00
" " Manchester	4.00
Omnibus McMinnville	.30
Medicine	.25-
Board at Mc. Minnville	1.50
Wagon to Bone Cave	3.00
Supper	.20
Photo. of Lookout Cave	.25-
Two rooms Knoxville	1.00
Cerfare Knoxville	.20
Lunch in cars	.35-
Two supper packages	.25-
Telegram	.25-
Total.	\$ 53.33

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~~\$~~ 87.15

58.33

Total.

~~\$~~ 140.48

A. C. Merces.

Account of H. C. Mercer, with  
U of Pa Tennessee Expedition.

Gave Joseph for Exped

April 10 <sup>th</sup>	Gave Joe Musseman for Expedition expenses	\$18.00
" 15 <sup>th</sup>	" " " " " " " "	8.00
" 18 <sup>th</sup>	" " " " " " " "	20.00
" 24 <sup>th</sup>	" " " " " " " "	5.00
" 25 <sup>th</sup>	" " " " " " " "	30.00
May 5 <sup>th</sup>	" " " " " " " "	5.00
" 9 <sup>th</sup>	" " " " " " " "	40.00
" 10 <sup>th</sup>	" " " " " " " "	5.00
Total.		\$123.00

H. C. Mercer

Joe P. Musseman.

# Gene Smith for wages.

Received in advance from Mr. Mercer.

Apr. 16 <sup>th</sup>	2.00
May 1 <sup>th</sup>	3.00
" 9 <sup>th</sup>	1.00
" 11 <sup>th</sup>	15.00
May 13 <sup>th</sup>	10.00
Total.	\$31.00

A. P. Mercer -  
Geo. P. Kurockman.



U of Pa. Term Exped  
1896

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Account of  
Joseph Musselman

Spent for the  
expedition

~~\$~~ 122.73

I  
University of Penna. Tennessee  
Expeditions expenses. 1896.

Apr. 10.	To	Rubber coat.	\$2.25-
"	"	"	
"	"	Srowel	.25-
Apr. 11.	To	Paper and envelopes.	.04
"	"	"	
"	"	Lunch.	.35-
Apr. 13.	To	Tallow candles.	.55-
"	"	"	
"	"	Ink & penholders.	.10
Apr. 15.	To	Two Boxes	.10
"	"	"	
"	"	Polish	.10
"	"	"	
"	"	Postal cards	.12
"	"	"	
"	"	Lunch	.60
"	"	"	
"	"	Freight on boxes from Money Ck	1.25-
"	"	"	
"	"	Sivery from Money Ck. to New Market.	2.50
Apr. 16.	To.	Carfare from New Market to Knoxville	1.50
"	"	"	
"	"	Baggage	.10
"	"	"	
"	"	Suppers	1.10.
"	"	"	
"	"	Ferry toll	.09
Apr. 17.	To.	Lodging and breakfast	2.00
"	"	"	
"	"	Measures	1.00
"	"	"	
"	"	Sivery to Lookout Mount.	.50
Apr. 18.	"	Lodging and breakfast Shipp Hotel	2.00
"	"	"	
"	"	Trolley fare	.10
"	"	"	
"	"	Shovel	.50
"	"	"	
Apr. 22.	To.	Twine	.05-
"	"	"	
"	"	Candles	.50
"	"	"	
"	"	Boxes	.15-
"	"	"	
Total			\$17.30

Apr. 22.	To.	Carfare	.10
"	"	Matches	.05
Apr 25.	To	Ropes	.20
"	"	Baskets	.15
"	"	Postage Stamps	.12
Apr. 28	To	Laundry	.75
"	"	Box	.10
"	"	Postage Stamps	.12
Apr. 30	To	Transfer of Baggage to Chattanooga	.50
"	"	Minors at Chatta	1.40
"	"	Two cans potted chicken	.40
"	"	Carfare from Chatta. to Fullahoma	4.90
"	"	Boxes	.15
"	"	Can milk	.25
"	"	Tin cup	.05
"	"	Sugar	.05
May 2.	To.	Carfare from Fullahoma to Manchester.	.70
"	"	Baggage	.15
May 4	To	Carfare from Manchester to Mc. Minnville.	.40
"	"	Baggage	.10
"	"	Twine	.05
May 5. To.		Candles	.60
"	"	Matches	.03

Total

\$12.32

May 7.	To.	Carfare from Holders to Manchester.	\$2.50
"	"	Freight on Box from " "	.72
"	"	Writing Tablets	.15
"	"	Bonnet	.75
May 9.	To.	Carfare from Manchester to Chattanooga	5.60
"	"	Lunch	.50
"	"	Baggage Transfer	.35
"	"	Carfare from Chattanooga to Phila.	41.00
"	"	Lunch	.25
"	"	Telegram	.25
"	"	Lunch	.20
May 10.	To.	Lunch	.20
"	"	Sleeping Berths	4.00
May 11.	To	Opium	.05
"	"	Breakfast	1.00
"	"	Carfare from Wayne Junction to Wayland.	.78
May 13	To	Fools cap.	.06
"	"	Stage fare from St. Pleasant	.50
Total			\$59.86
			12.32
			<u>17.30</u>
			\$89.48

To Labor performed at Zerkles Cave.

By Samuel Roach. 1 1/2 days at 75¢ per day	\$ 1.10
" James Reneau 1 1/2 " " " " "	1.10

To Labor performed at Look out Cave.

By Lawson Smith 9 1/2 days. 90¢ per day	\$ 8.55
" David Cartwright " " " " "	8.55
" Geo. Hughes 9 days " " " "	8.10
" Robert Bradford. 6 1/2 " " " "	5.85

Total	\$ 33.25
	<u>89.48</u>
	\$ 122.73

Received Money from Mr. Mercer.

Apr. 10 <sup>th</sup>	\$ 10.00
" 16	8.00
" 18	20.00
" 24	5.00
" 25	30.00
May. 5 <sup>th</sup>	5.00
" 9	40.00
10	5.00

Total. Amount received - - -	\$ 123.00
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Total Expenditures	<u>122.73</u>
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Returned to Mr. Mercer.	.27
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Jos. P. Musselman.

A.C. Mercer

From Expedition  
1896

Accounts

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Notes on Fossil Remains of Lookout Mountain - by H. C. Mercer  
(From a letter in the library of the Academy of Natural Sciences)

Tapir Jaw Found at Lookout Cave, Tennessee, in 1893.

I excavated, with great care, the cave floor of Lookout Cave near Chattanooga, under Lookout Mountain, on the Tennessee River in 1893, and again in 1896. A large amount of Indian cave refuse mixed with animal bones, etc., was found. Professor Pilsbry had identified the shells, Dr. Schufeldt the birds, Dr. Harrison Allen the bats and Professor Cope the mammals, reptiles, etc., when, after getting my notes nearly ready for publication, the latter died. My paper was never published, and the manuscript, with some of the specimens, is here, while other bones are at the University of Pa. Museum.

I cleared out the cave floor from the entrance inwards for about 50 feet, in trenches or sections, marked at right angles, across the floor, which was 18 feet wide. These sections went down to cave rock, and the specimens as found at each digging, representing about 4 to 6 inches, were immediately put in muslin bags and labelled in India ink, according to depth and trench. About three and a half of these sections were cleaned out in 1893 and the rest in 1896. The whole digging showed:

1. Top Layer. White man and Indian, six to eight inches.
2. Middle Layer. Indian about two feet.
3. Red cave earth, resting on rock floor, varying from one to several feet in depth, according as the floor waved or showed pockets. I divided this red earth into two zones: 1. the upper, showing the intrusion of bones and refuse from the Indian layer above. 2. the undisturbed red earth containing a few bat and other bones.

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The Tapir jaw and the fragment of Mylodon, ditto were found at the conclusion of my first digging in section 5, third foot and in upper zone of cave earth. They were immediately placed in a bag and identified by Professor Cope on my return. He afterwards expressed doubt as to the Mylodon and I threw that out of the evidence for a later identification. The note on the tapir specimen is as follows in my manuscript.

"Tapiris Haysii. Mandible. Lower right ramus with one left incisor and three right molars. One unerupted molar and another loose molar. The fragment was found broken in about eight pieces with the teeth loose, several of the pieces had been gnawed at points by rodents. They lay in contact with the lower yellow earth and were of a lighter yellow color than the bones in the Indian layer immediately above, though not lighter than bones of other animals evidently cracked by human agency and found in this upper zone of the yellow disturbed earth, just below the Indian layer."

"Mylodon. Jaw fragment with alviolus of tooth. This specimen had been gnawed by rodents and was of the same light yellow color as the Tapir jaw. It had been anciently broken and lay in contact with the bottom layer of red cave earth."

It was principally on account of these bones and because no other bones belonging to either Tapir or Mylodon appeared in any of the specimens brought back in 1893, that I went back and finished up the cave in 1896. Nevertheless, in the latter digging no other bones certainly appeared as belonging to Tapir or Mylodon.

I had thrown out the Mylodon and supposed that it was



reasonable to conclude that the Tapir had been intruded into the red earth from the upper layer, and had therefore been in contact with the Indians for the following reasons. Because, from this same layer, that is, the upper zone of cave earth, in this same cave, at the third foot down, and therefore within a few varying inches of the depth of this Tapir specimen, above or below it, I found frog bones 7 specimens, cave rat 6, marmot 1, squirrel 2, turtle 5, drum fish 2, water tortoise 2, deer, certainly identified, 4, opossum 2, bird, small, 4, bird, large, 1, wild turkey 2, fish 16, large animal unidentified, gnawed by large rodent, 5, bones, teeth and skull fragments of large animal unidentified, plainly cracked in many cases for the marrow, crushed, broken and otherwise splintered, 493, Hornstone chips 25. Bones rubbed to a point 2, potsherds 10, 12 bones in section 5, third foot, showed signs of gnawing resembling the filings of rodents, though in two cases, showing two scars as of the teeth of wolves.

I had intended, before publication to go over the whole record very carefully after Professor Cope's death and I sent some of the doubtful bones to Professor Osborne, but no further light was thrown upon the Tapir specimen, which is now at the University of Pa. Museum. If my health permits, I hope yet to get the record of this cave finally studied and published.

Hoping that this may be of some service to you, I am

Very sincerely yours,

(signed) H. C. Mercer

August 21, 1918.