SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA: 1878-'79-'80. CATALOGUE OF THE GEOLOGICAL MUSEUM, PART II

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649691678

Second Geological Survey of Pennsylvania: 1878-'79-'80. Catalogue of the Geological Museum, Part II by Charles E. Hall

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

CHARLES E. HALL

SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA: 1878-'79-'80. CATALOGUE OF THE GEOLOGICAL MUSEUM, PART II

Trieste

bat

SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA: 1878-'79-'80.

1. 6. 12man er

CATALOGUE

٠

.

OF THE

GEOLOGICAL MUSEUM.

BT

CHARLES E. HALL.

PART II.

 COLLECTIONS OF ROCK SPECIMENS. Nos. 4255 to 8974.
PALÆONTOLOGICAL SPECIMENS.

HARRISBURG: PUBLISHED BY THE BOARD OF COMMISSIONERS FOR THE SECOND GEOLOGICAL SURVEY. . 1880.

SY

11:11

MICROFILM AVAILABLE

res. 8+

209091

.....

_

-----Entored, for the Commonwealth of Pennsylvania, in the year 1880, according to acts of Congress,

By WILLIAM A. INGHAM,

Secretary of the Board of Commissioners of Geological Survey. In the office of the Librarian of Congress, at WASHINGTON, D. C.

Electrotyped and printed by LANE S. HART, State Printer, Harrisburg, Pa.

Yaageij

BOARD OF COMMISSIONERS.

s ⁰

1

23

81)//

His Excellency, HENRY M. HOYT, Governor,

25

.

		8	nd e	5-05	icio	Pres	lilen	tofi	the Board, Harrisburg.
ARIO PARDEE, - ·	-				- 25		-	17	Hazleton.
WILLIAM A. INGHAM,		±1	25	8 7 -8		5	•	5	Philadelphia,
HENRY S. ECKERT,									
HENRY MCCORMICK,									
JAMES MACFARLANE.	÷	÷	-	÷	×.		20	82	Towanda.
JOHN B. PEARSE, -				27	\mathbb{Z}		20	1	Philadelphia.
JOSEPH WILLCOX,		12		2	22	82	9	2	Philadelphia.
HOR. DANIEL J. MOR.	RE	LL,	112		$\overline{\mathcal{D}}$	-	53	5	Johnstown.
HENRY W. OLIVER,									Pittsburgh.
SAMUEL Q. BROWN,		•			-			22	Pleasantville.

SECRETARY OF THE BOARD.

WILLIAM A. INGHAN. - - - - Philadelphia.

STATE GEOLOGIST.

PETER LESLEY, - - - - - - Philadelphia.

1880.

ASSISTANT GEOLOGISTS.

PERSIFOR FRAZER-Geologist in charge of the Survey of Chester county.

AMBROSE E. LEHMAN-Topographical Assistant, for mapping the South Mountain.

E. V. D'INVILLIERS-Topographical Assistant, for mapping the Easton-Reading range.

FRANKLIN PLATT-Geologist in charge of the Satistical Survey of the Anthracite coal fields, &c.

W. G. PLATT-Geologist in charge of the Survey of Armstrong and Jefferson counties.

R. H. SANDERS-Topographical Assistant in Franklin county.

I. C. WHITE-Goologist in charge of the Survey of Susquehanna and Wayne countles.

J. F. CABLL-Geologist in charge of the Survey of the Oll Regions.

H. M. CHANCE-Geologist to report on the Mining of the Anthracite coal fields.

C. A. ASHBURNER-Geologist to report on the Geology of the Anthracite coal fields.

A. W. SHEAFER-Assistant in the Anthrocite onal fields.

F. A. GENTH-Mineralogist and Chemist at Philadelphia.

F. A. GENTH, Jr-Aid in the Laboratory.

A. S. MCCBEATH- Chemist, in charge of the Laboratory of the Survey, 223 Market street, Harrisburg.

JOHN M. STINSON-Aid in the Laboratory at Harrisburg.

C. E. HALL-Geologist in charge of the Survey of the Philadelphia belt, and Palaontologist in charge of the Museum.

M. CHAPMAN-Aid in the Museum.

H. C. LEWIS-Volunteer geologist for the survey of the gravel doposits of south-eastern Pennsylvania.

LEO LESQUEREUX-Fossil Botanist, Columbus, Ohio.

E. B. HABDEN-Topographer in charge of Office Work, &c. 1008 Clinton street, Philadelphia.

F. W. FORMAN-Clerk in charge of the Publications of the Survey, 223 Market street, Harrisburg.

CHARLES ALLEN-Aid.

PHILADELPHIA, August 2, 1880.

٠

To His Excellency Governor HENRY M. HOYT,

Chairman of the Board of Commissioners of the Second Geological Survey of Pennsylvania:

SIR: I have the honor to present for your approval Mr. Charles E. Hall's continuation of the catalogue of geological specimens, arranged, labeled and bestowed in the museum of the Survey, up to date.

Previous to the close of 1877 Mr. Hall was aided by Mr. W. A. Fellows.

In 1878, 1879 and 1880 Mr. M. G. Carraher collected in the field during the summer months, and assisted in the museum during the winter months; aided by Mr. E. V. D'Invilliers, until the latter was detailed to carry on the topographical survey of the Easton-Reading range; and by Mr. N. A. Stockton in 1870.

Mr. Charles Allen was engaged in locating, numbering and mapping the rock exposures of the Philadelphia belt in advance of the collectors during the summer seasons of 1878 and 1879.

A system of approximately north and south cross sections was made by Mr. Hall through parts of Bucks, Montgomery, Philadelphia, Delaware and Chester counties, across the azoic belt; and the collections were made not only along these lines, but in the intermediate ground, for the purpose of differentiating the azoic formations, and tracing their several outcrops, to be described in his report.

The specimens are arranged according to these cross sections, lettered A, B, C, &c., beginning at Trenton, and proceeding westward towards Chester county.

The measurements between specimens given in the catalogue stand for the actual vertical (geological) rock-thickness—unless otherwise stated.

For chemical analyses of specimens references are made

vi O². REPORT OF PROGRESS. CHAS. E. HALL.

to Reports of Progress of the Survey in which such analyses are published.

A list of errata in the preparation of the previous volume of the catalogue, Report O, will be found at the end of this volume. Those who own Report O can transfer said list to that volume.

An *index of geographical names* accompanies this volume; like the one provided for Report O.

A separate *catalogue of fossils* is appended, with its own index. There has been as yet no *systematic* collection of fossils made by the geologists of the survey; and the few fossils included in this catalogue were numbered under their respective formations, according to the old numbering of the First Survey, as they happened to be sent to the museum with ores and rocks from the different districts.

The force of the survey has been necessarily expended upon the study of the local mineral structure and resources of the several counties.

Until this onerous work was accomplished the study of the generic and specific characters of animal forms preserved in the rocks (a study of secondary importance ir. a region like Pennsylvania) had to be postponed. The vegetable palæontology of the coal measures, however, being of greater importance, has been carefully attended to; as the forthcoming report of Prof. Lesquereux (P) will show.

Mr. Hall, while in charge of the muse m, and assiduous in its organization and arrangement, leaving nothing to be desired in that respect, undertook the very difficult task of exploring the azoic belt of the southeastern counties; and could not therefore make collections of fossils throughout the State.

This essential part of our work is left for the future, and I trust that the Legislature will secure its performance.

Very respectfully,

J. P. LESLEY.

TABLE

Showing the order in which the collections follow each other in the Catalogue.

		other the the Cultury ac.
Museum Num		TRUE CONTRACTOR AND A CONTRACTOR OF THE STATE AND A CONTRACT AND A
		Published in Report of Progress O, 1878.
		P. Frazer, 1877.
4310 4456,		C. E. Hall, Section A, Delaware river.
4457-4974,		C. E. Hall, Section B, Neshaminy creek.
4975-5009,	•	C. E. Hall, New Red, Bucks county.
5010-5021,		C. A. Ashburner, McKean county, 1875.
5022-5046,		F. Prime, Jr., Lehigh river district, 1874-5.
5047-5087,		W. G. Platt, Cambria county, 1875.
5088-5120,		Miscellaneous Lithological Collection.
5121-5246,		Charles E. Billin, Centre, Union, &c.
5247-5374,		C. E. Hall, Section C, Poquessing creek.
5375-5448,		Miscellaneous Lithological Collection.
5449-5891,		C. E. Hall, Section D, Pennepack creek.
5892-6108,		C. E. Hall, Section E, North Pennsylvania R.
		R. and Tacony creek.
6109-6281,	4	C. E. Hall, Section F, Wissahickon creek.
6282-6335,		Miscellaneous Lithological Collection.
6336-6399,		P. Frazer, 1879, Lancaster and Chester cos.
6400-6532,		F. Prime, Jr., Lehigh district, 1874-5-8.
6533-6664,		J. H. Dewees, Juniata district, 1874 to 1879.
6665-6727,		F. Platt, northern Pennsylvania, 1877-8-9.
6728-6773,		W. G. Platt, trap dykes, 1877-9.
6774-6799,		J. J. Stevenson, Fayette, Westmoreland, 1877.
6800-6820,	3	I. C. White, Lawrence county, 1877.
6821-6847,		Ashburner, Chance and Frazer.
6848-7079,		J. Hartshorne.
7080-7099,		P. Frazer, Lancaster and Chester cos, 1879.
7100-7700,		C. E. Hall, Section G, Schuylkill river, Phila.
		C. E. Hall, Section H, Gulf and Cobb's creek.
		C. H. Hall, Section α , β , γ , δ , Chester valley.
		C. E. Hall, Section I, Chester creek.
		C. E. Hall, Section J, Brandywine creek.
		A. E. Lehman, Franklin and Adams counties.
		C. E. Hall, Hudson river, (for comparison.)
		P. Frazer, Chester county, 1879.
		Charles A. Ashburner, McKean, Forest, Elk.