SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA 1874: REPORT OF PROGRESS IN THE VENANGO COUNTRY DISTRICT

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649492046

Second Geological Survey of Pennsylvania 1874: Report of Progress in the Venango Country District by Various

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

VARIOUS

SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA 1874: REPORT OF PROGRESS IN THE VENANGO COUNTRY DISTRICT



SECOND GEOLOGICAL SURVEY OF PENNSYLVANIA: 1874.

REPORT OF PROGRESS

IN THE

VENANGO COUNTY DISTRICT

By JOHN F. CARLL.

OBSERVATIONS ON THE GEOLOGY AROUND WARREN.

By F. A. RANDALL.

NOTE ON THE COMPARATIVE GEOLOGY OF NORTH-EASTERN
OHIO AND NORTH-WESTERN PENNSYLVANIA,
AND WESTERN NEW YORK.

By J. P. LESLEY.

HARRISBURG:

PUBLISHED BY THE BOARD OF COMMISSIONERS FOR THE SECOND GROLOGICAL SURVEY,

1875.

BOARD OF COMMISSIONERS.

His	Excellency,	JOHN	F.	HARTRANFT,	Governor,
				f the Board, Harrisbury	

ARIO PARDER, -		* 0	*	*	-	Hazleton.
WILLIAM A. INGHAM	ď,	. <u>≨</u>	*	-	9	Philadelphia.
HENRY S. ECKERT,		20	4	\simeq	-	Reading.
HENRY M'CORNICK,	-	23	-	-	-	Harrisburg.
JAMES MACFARLANK,	271	200		-	45	Towanda.
JOHN B. PEARSE,	•	76		-	-	Philadelphia.
ROBERT B. WILSON,	M.	D.,	*	*	\approx	Clearfield.
Hon. DANIEL J. Mo	RRE	LL,	\times	*	-	Johnstown.
HENRY W. OLIVER,	20		-	. 2	្ន	Pittsburg.
SAMURE Q. BROWN,	23	27	29		_	Pleasantville.

SECRETARY OF THE BOARD

JOHN B. PRARSE, - - - - Philadelphia.

STATE GEOLOGIST

Peter Lesley, - - - - Philadelphia.

* 8 8 8 * ***

.

PLEASANTVILLE, Feb. 15, 1875.

Prof. J. P. LESLEY, State Geologist:

DEAR SIR:—I have the honor to submit herewith a brief report of the progress of the work under my charge in the Oil District of Venango, in connection with the Second Geological Survey of Pennsylvania, during the season of 1874.

Very respectfully, JOHN F. CARLL. a 9 e e e * * * ## 128 æ

谚

TABLE OF CONTENTS

OF THE SEVERAL CHAPTERS.

		I.					52	
							P	AGE.
I.	Outline of work, -	•		•			7.0	5
	Tide level datum, -		3 5 0	(•	() = (•	5
	Contouring and Map.		grap	hy,			•	6
П.	Genesis of Petroleum,	-	-			•	#3	8
	Ambiguity of terms us	ed in	the	Oil R	egior	1, -	2	9
	First Artesian wells: I	Discov	ery e	of the	e Oil	Sands	, -	10
	Belts versus Streams,			(1/2)	1.	ŧ		10
	Mountain Sand group,	or Ba	arren	Oil r	neasu	res,	-	11
	Oil Sand group, or Petr					1.00	*	12
III.	Petroleum measures: (14
	Trend of the Upper Oi	l belt			-	2	20	16
	Elevation above tide, a			Oil s	and,	100	20	18
	Sections constructed from					ils.		23
93	Vertical sections, -		00000000000000000000000000000000000000	30 - 0			-	23
	Three types of stratific					**	-	81
	Necessity of thorough			-	40		-	31
IV.	Barren Oil measures,			77=3	-			33
-	Conglomerate No. XII		93 2 3		2	-		34
	Cuyahoga Shale No. X	T.	7743	0220	12	23	2	36
	Sub-conglomerate Coal			_		-		36
	First Mountain sand, U			es. ori	t? N	o. X	-	87
	Catskill shales No. IX,				-1	-	- 2	37
	Second Mountain sand		er B	eres (rrit?	20	20	37
	Identity of Northern	Cong	glome			Seco	nd	000
	Mountain sand, -	•		-		-	_	38
	Inference with regard					l, -	-	40
	Variations of the Seco					7.5	-	40
	Bedford and Cleveland	shale	ев Ис	VIII	I -	7		41
V.	Unreliability of well r	ecord	9, -	+	*	*	\sim	42
	Screw measurement,		707	-3	*	=	\approx	42
	Strata between sands,		-	₩.	20	-	-	44
	Red beds,	-	20	23	4	-	1	44

CONTENTS.

			PA	GE.
VI.	Garland Conglomerate and Hosmer oil, -	7.0		45
	Drift,	5 2		47
	Clarion and Butler counties,	-0		47
	M'Kean county,	-	-	48
	II.			
	Observations around Warren by Mr. Randal	I,	×	50
	III.			
I.	Nomenclature of rocks in Pennsylvania,	•		57
	General geology of north-eastern Ohio, cor			
191012	with that of north-western Pennsylvania,	•		61
III.	Conglomerate, No. XII, in Ohio,	-		63
IV.	Cuyahoga shale, No. XI, in Ohio,	-	•	67
V.	Berea grit, No. X, in Ohio,	•	•	69
VI.	Bedford shale, No. IX? in Ohio,			73
	Cleveland shale, No. VIII, in Ohio, -	•		75
VIII.	Erie shale, No. VIII, in Ohio, -	*		76
	Disappearance of Erie shales westward, -	20	a i	79
	Portage group, No. VIII, in New York,	2		82
	Chemung group, No. VIII, in New York,	<u>.</u>		88
	Formations above Chemung, in New York,			95
	Old Red sandstone, No. IX, in New York,	-		97
	Supposed Conglomerate, No. XII (X), in New	York		
	Index.			09