

1221 Rock Island St Davenport Ia

Sir J William Dawson LL.D.,

Thon Sir

I have been much interested in some quotations from your issue in the February Geologist, would like the the complete paper.

I send my paper on the complete overturn of the Lower Silurian rocks in Rensselaer Co NY.

I read a paper at the Cleveland meeting on the change of the drainage of the Mohawk River from near St Johnsville, to the Saranadaga River and entered that river through the Strawberry fly.

That in its course half a mile south of Gloversville, it piled up gravel and boulders on the south side of Burrs Hill, to an altitude of 80 feet, at an angle of 45 degrees, against water washed sand at the north of it which is stratified and horizontally disposed.

The cause of this change was a fault

in the Lower Silurian in the Mohawk Valley at Shraffers of more than 700 feet, which let the water through that fault, it has since eroded that valley 700 feet deep, and three miles in width

At Burrs Hill the Cayuga Creek now runs south a little west, about 10 per cent of of the gravel and boulders at that place is Trenton limestone with its characteristic fossils

There is no Trenton in place North or West of that place. The Trenton boulders which are well rounded were picked up up about 20 miles south West from Burrs Hill. I have no copy of that paper or would publish it

On the Shore of Lake Genesee seven to nine miles up the lake from Buffalo there are large blocks of Corniferous lime stone brought down from Sandussee 10 or 12 feet by 4 x 6 feet and 20 inches thick they are all deeply striated at right angles

to the shore that striation is going on whenever there is floating ice and the lake is rough it throws flood wood on top of the cliff 12 to 13 feet high

I have visited a place in Mayfield Huron Co. W. where the Trenton in place was covered with four feet of drift where the planing and striating is going by the action of frost and gravity

The Trenton is planed and striated from North to south in the direction of the push it has had millions of years to do its work in

I have a specimen from Glens Falls planed and striated in the same manner

All of western W. is on side of an eroded valley

The top of the Trenton limestone at the Gass well at Cassport is 1965 feet below the level of Lake Ontario

When this subsidence took place the Gorges of the the deep lakes was opened

down the strata was not long enough to reach from the bottom of the deep ocean, high up on the mountains the strata was broken drawn apart and the deep lakes were born.

All of the northern argoic boulders that are so numerous in Genesee and Livingston boulders were transported there, before the deep lakes were born.

The farm of Daniel Mc Given a mile and a half south of Limerock Genesee Co. very had a vast amount of northern argoic boulders left on it while erosion was cutting through the hard Corniferous limestone, that contains much flint.

The farm referred to is underlain with Marcellus shale

Many of these boulders had to be blasted before they could be moved.

South of that farm while erosion was cutting the shale there are a few small boulders none of which are too heavy for a man to lift.

The same feature holds good going

P 5

South while the Hamilton shales
are being eroded very little is
nothing for stone fence

To continue going South from
Portage to Corning the pebbles are
nearly nine hundredths of them local
Chemung.

In Bradford County Pa when we
reach the Catskill all the boulders
and pebbles observed were local of
that formation

on Mr M^o Givens farm there is
great variety of the northern boulders
all well rounded, a few of Medina
and Corniferous are angular

There is a very large collection
of Crinoids for sale at Bradfordville
Indiana they belong to Michael Keller
there some three or four thousand individ-
uals they clean up with great facility
showing plates arms and pincels
if you dont wish to purchase I would
like to exchange some for Canada Denton

Very Truly Yours

A. S. Tiffany

Mary
Wesland
age
H 194

McGILL UNIVERSITY ARCHIVES
ACC. NO. 1463
REF. 343