E. O. Ulrich.

Notebook 25.

New York and Ontario.

1913.

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Medina, N. Y. Aug. 19, 1913 with Hartnagel and Tourste

* Fossils few, almost wanting; saw only a few small *Depressaria* cf. *D. elliptica*.

Between Ogdensburg and Morristown, N.Y.
Aug 23, 1913.

Aug. 24 - Spent at Watertown

Tranton ls. ^{shown} up to highest point of road in Martinsburg

Running creek section between east Martinsburg and Martinsburg = 3-4 m (see map.) See Cushing section for Pamlico, Loupville and greater part of Waterstown

Aug. 25th 1913. With Cushing & Forster.
Saw a fine Goniatites in the Pamlico.
It is a different species from the G. aniceps.

Section of upper part of Martinsburg
made in 1920 was lost with
N.B. 14 in flood.

Appears to be all lower Tranton.

Comparison of *Ward's* 1913 Hamilton, Ont. Section with *Spencer's*

Hamilton, Ont. Aug. 15, 1913, with *Foster* &
Section of upper part of bluffs just east of top of James St. Incline.

* judging from *Spencer's* (Barre's) section somewhat should be missing between my VII & VIII.
** Ferruginous beds contain many polychaetes and are filled with bryozoa also contain small *Bucania* trilobate.

* No sign of break unless it be that the green shale represents pre-sandstone and is a water bearing. However the ss. is a water bearing and this is more likely explanation of it. The ss. layer above the green is irregularly pitted and in a 2' or 3' exposure appears about the same height above the upper ferruginous. *Spencer* will see good physical evidence of break here.

Niagara Falls gorge - Aug. 16, 1913. with Huntington & Forster

In gorge at Rapids station
section down to top of Lockport.

Niagara Falls

Niagara Falls, N.Y.

North of Matchman's Reef N.Y. Contained R.R.

P. 15

Thickened 5 ft. 13 Mar 13 1913

*** Above this line Sodus Falls & Medina - below it to Queenston the ss. is of Colerain.

Blountville, N.Y. 25.

Aug. 17, 1913.
Whitman's quarry near Lockport, N.Y. with Hartnagel & Forster.

Section along canal just above bridge on Lockport N.Y.

* Evident break in sedimentation but can see no evidence of emergence. Chert is that the underlying bed is referable to the Lockport (Chicagoan) rather than to the Rochester Chert. If so then the cherty dolomite of the Hamilton Out. section belongs in the chertous indicated in the Niagara Falls section between the mass of (hydraulic) bed and the typical Rochester shale. Otherwise the chert may belong in the lower part of the Gasport member.

Reynolds Farm

Reynolds Farm

Aug. 18, 1913.

at Gasport, N.Y.

3 ft. thin ls. + sh. with 2 large
2 ft. mud
No "gray band" nor Sothas

Thin bedded ls. recently opened, suggests Hamilton, Ont.
Rochester shale fairly well developed, scarcely a break at base
Clinton must be thin here, probably not over 10 ft.

Under canal a thin ls. with Hyattella + longirostris, greenish sandy
ls. with Orthophryen, some red shaly ss. and black pitted
congl. of undetermined sequence.
Small Lingula in congl.
Many pelocyprids with Lingulid

Not over 2.5 ft.

At Gasport, N.Y.

6 ft. more yellowish and softer ss. has brown rather than black specks
Lingula occurs in several beds.
6-7' basal
Probably ~~the~~ ss. black with gray ss.
Same bed as the lowest bluish in the Lockport quarries.
3 ft. of Occidenton

The contact between the Clinton and the Medina lies in the ^{one} Canal bed. Material removed from same, also the report of persons who saw the recent excavations, indicate entire absence of both the "gray band" and the Sothas. The red sandstone of the ^{upper} Medina is Albion seems to be succeeded by a thin conglomerate with relatively large black pebbles and this by a greenish sandy ^{unstratified} mudstone, 3 to perhaps 12 inches thick, in which a few Orthophryen ^{+ A. arcuatus} were observed. Abundant pebbles of another congl. layer with small, very black pebbles (rarely exceeding $\frac{1}{2}$ inch in diameter) are found in the dumps along the canal. This perhaps overlies the Orthophryen layer though it may really be but a variation of the other, coarser, congl. At any rate one case was observed in which a limestone slab was still attached to the top of the Orthophryen layer. Both conglomerates carry a few fossils which seem to be rather the same species in both. Perhaps 2 feet of thin limestone with shale partings ~~to~~ ^{well} overlie the Orthophryen layer. These limestones are pitted with fossils of which a Hyattella or possibly Clintonella is the most striking and abundant. With these are many kinds of bryozoa suggesting the Boxford-Catawba fauna but nothing typical of either. A wholly unknown brachiopod is also present.

Grainby, Ont
Aug. 8th 1913

12'

12' at top

12' (See guide book)

Base of Clinton 16"
about 4 ft.

about 15 ft
Said to be 20 ft.

3-6" 3-6" 3-6"
small, & pyritiferous ls. said to
be Clinton. Base about perfectly flat.
shale is sandier. Rhyolite bed
marked top of bed.

Massive cross-bedded
or less banded ss. mottled with light colors. Red more
or less banded out of upper part.

74 ft.

6 ft. ss.
Quarries

Rochester N.Y.

Rochester N.Y. Evening of Aug 19th morning Aug 20, 1913.
 Lawrence gorge. With Hartnagel & Forster

Probably no upper Medina (i.e. at all and top of ss.) at all -
 This is ss., and if I am right in assuming all of the overlying
 40 ft. is Arthropods, it is a good ss. To the base of the
 Medina, the division is fairly in contrast with
 the Quaternary (a general). The fact that I regard the
 beds which have such bluish, are bluish deposits
 suggests another explanation of the absence of more
 normal 14 ft. Medina deposits - viz. bluish conditions set in
 here during the Medina time, and persisted to some extent.
 3 5
 12 12
 20 20
 4 10
 39 47
 7
 54 early Clinton time.

Rochester, N.Y. Aug. 20, 1913

Top
Middle part, frag. top
Latter 8 in. full of
Brachiopods

Lower Pontonius or Volcanic ls. above the Lower Falls.

x 1 1/3 diam.

Reginald L. Bates

Reynales-Buffs

(Lower Permian)

Mar 23 0 ✓

Reynales-Bats (lower Puntarenas)
Mar. 230 ↘
The midway, Sadus and Wolcott, over mouth of
Salmon creek - 4 m. N. of Sadus.
N.J.
Aug 21, 1913
with Hartnagel

Aug 21 1913
with Harlow

about 10 ft ^{to 15 ft} ^{contains ls.} ~~to~~ ^{limestone} ~~limestone~~ ^{lagoon} - Not well exposed.

1' - 2 1/2' ~~2' - 3'~~ Fossiliferous ore.
2 or 3 ft. ^{thin} shale with thin plates of mag. ls. in upper part.
2 ft. very argill. ss. (gray band?) seems to merge upward into shale.
6-7' Red shale + ss. Contains A. barlowi.

1' - 2 1/2' ~~Thin~~ Fossiliferous ~~ss.~~ with thin plates of mag. ls. in upper part.
2 or 3 ft. ^{green} shale
2 ft. very argill. ss. ("gray band") seems to merge upward into shale.
6-7' ^{green} Red shale + ss. Contains A. barlowi
10 ft. Rather heavily bedded - 6" - 12" grayish ss. contains in upper portion a few *Arthropods* & *Hyomen*
^{possibly the gray band?}
7' Red sh + thin ss ? = *Quenston* ^{barlowi}

It is the subphyreous zone
rests on Rindmanian
as it does at Rochester and
most places in N. East of Rockport.

Upper Pantanirus ^{ls.} and shale beneath, near mouth of
Second Creek, 1 m. N. of Allon N. Y.

Walcott ls.
Rufts Mon 925

2' shale
Pentamerus layers
3' 4" rotten ^{low} ~~are~~, not fossiliferous?
6' shales and ls. the former greenish gray, with
trigones. Forstellages etc, the ls. nearly pure
and full of Pentamerus
perhaps 20 ft. Pentamerus in ls. in bed
2' Purple shales very pure in three streaks. R. streaks
3' same kind of shale with 1 to 2 in. heavy ls. ls.
3' Purple shale with larger specimens of *Brach. humphreii*

+ Jupiter River stratum
Buhs Mar 9 30

at Clinton

25 ft. Greenish shale & very thin ss.

In well

The Oxide conglomerate is found at the base of the Clinton whether the Mediniana underlies it or not. It is only thicker than usual section & where the Mediniana is wanting.

drift
 610 B...
 Estimated at 100ft or less

460 alt. about 100ft
 above that of bridge
 1m. above Mass.
 Dalmatella, Plectambonites, Amplex. discoides, Cornulites, Gyroneurina
 and other usual fossils

Well at Chatham
 non work.
 150 sh. & ss
 50ft. Oolite
 Eden... 50ft at top
 712' light col.
 912 + sandy.

Guelph - Lockport strata
in barge canal west of
Rochester, N. Y. by
G. H. Chadwick or students

Section of Guelph-Lockport Strata
in the Barge Canal west of Rochester, N.Y.
Measured by G. H. Chadwick and students.

Duplicate of section on
p. 31

Section of Guelph-Lockport Strata
in the Barge Canal west of Rochester, N.Y.
Measured by G.H. Chadwick and students.

618 B...

33
11

33
11

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