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U E. O. Ulrich
Mohawick sections.
Nb.30 - Kentucky and Tennessee.
1899, 1906, 1908, 1909, 1914.

Dore RVEY.

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Chalchicomula
Woodbury
Hennepin
Lemmon
Cincinnati
Reading

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Amount.

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Turtledove	
Starling	blue
Robin	red
Parula	red
Chimney Swift	green
Hummingbird	yellow
Redwing	

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- Tullahoma
- Chattanooga
- Wauhatchie
- Hermitage
- Lawrenceville
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P. 1000

Bed 3" - 2' - 1-2' predominating
Black, shaly in middle & layers
the latter irregular and worn
beds, mostly a fine grained
dark to gray ls.

The Columnaria bed is up to 8-10'
Dark shaly - in part congl.
shaly. Both Columnaria
Stroph. propinqua, Dal. sub.
Strophomena typum

Argill. & argill. ls. has fresh
dark yellow or gray weathered layers
Contains Columnaria, Stroph. propinqua
up to 1 ft. in thickness. Dal. sub.
bed Strophomena & other fossils
extremely abundant & characteristic

Tenn, Woodbury quad,

Section across ridge from
 bottom of hill to top
 341' V¹, 2, 3, 4

On west side
 of Cannon ls.
 so that thickness of
 formation is from
 top of chert to nearly
 top of chert.
 = 1140
 - 890
 = 250' = Cannon ls.

On north slope of hill
 2 1/2 m. SE of Halls Hill on Ruidyville
 road a fine example of dip slope
 the heavy mid. Ls. forms slope
 from 690 to 710 = 40 ft.

4) 110
 28
 82

Cannon ls. fauna on
 residual chert, Davis Farm
 1 m. west of Franklin, Tenn.
 Coll. by Edw. 1900.
 Carinidont - small species.
 Bygonoceras? & distinguish-
 able forms.
 Modiolopsis in sp.
 Parallelodonta grandis Edw. 1900.
 P. - obliquus Edw. 1900.
 Buxtonia sp.
 Bullerophontastraea?
 Leptospira 2 undet. sp.
 Cyprina diversum Edw.
 Trochilites sp. (imprint)
 Small ramose bryozoans
 The pebbles were
 removed to the
 Biological coll. also
 the supposed Trochilites
 Edw.

Murfreesboro, Tenn. Alt. about 650.
Top of Murfreesboro ls.

 Redley -
 10-12' Piñon - upper shale fossil horizon
 about 20 ft. layers 1-3 ft - fossils per.
 5-6' Thin bedded - 1-2 inches slabs full
 of fossils - long open shelly -
 Collected many slabs -
 some specimens here in
 former years.
 30-40' Exposed in quantity. Contains the
 main silicified fauna of
 this formation

First Lakewood ls. found
about $4\frac{1}{2}$ miles east of Murfreesboro.

Section of Carters ls in vicinity of
Columbiana and along Carters Creek, Tenn.

Lithologically the typical Carters is easily distinguished from the
Tyronia or so called Carters of the Woodbury quadr. by its more or less distinctly
magnesian composition, white color - especially in natural outcrop - and
more massive beds. The Tyronia is a pure, non-mag. ls., in part somewhat
argillaceous, white and thin bedded; - even shaly below - in the upper 5-25 ft.
bluish finely granular for the most part and more cherty. Of the
Carters fossils the Tyronia contains only the *Columnaria*, *Strophomena* and
Strophomena, and the fossil is commonly of the large & small celled
form. The numerous species known in the Tyronia of Ky. & Woodbury, especially
in the upper bed, are entirely unknown in the Carters. The absence in
the latter of the most diagnostic fossil - *Tetr. cellulosum* - also of *T. columnaria*,
is particularly noteworthy. The fossil corals common to the two are present also
in the Redley, their absence therefore being negative.

Carters ls. section
1914
at Nashville, Tenn.

Section as measured and described
by William Nelson

Perhaps not good enough
E.H.

Section of Carter's ls in
Columbiana and along Ca

Total about 48-50 ft.

Like locally the typical Carter is ca. Tyrone or so called Carter of the Woodbury quad magnesian composition, white color - especially more massive beds. The Tyrone is a few argillaceous, white and thin bedded; - was shale almost finely granular for the most part. Carter's fossils the Tyrone contains only the Stromatoceras, and the fossil is commonly of the same form. The numerous species known in the Tyrone of Ky. & Woodbury especially in the upper bed, are entirely unknown in the Carter. The absence in the latter of the most diagnostic fossil - *T. columnaria* - also of *T. columnaria*, is particularly noteworthy. The fossil corals common to the two are present also in the Riddle, their absence therefore being negative.

SECTION IN LIMESTONE QUARRY, MT. OLIVET CEMETERY.

Hermitage formation to top of hill	Unknown
Dark crystalline, gray-blue, fetid gray limestone. Many bryozoans and tetradium minus and stictopora	2 feet
Rhynchonella nicholsoni, thin bedded, very fossiliferous dove limestone with Leray fossils	10 "
Yellow clay, very calcareous, contains streptelasma profundum	2 in. to 1 "
Slightly magnesian limestone, mottled with some white chert, upper foot conglomerate	6 "
Finely oolitic, massive limestone, crystalline at the top	4 "
Slightly magnesian limestone	5 "
Coarse, crystalline conglomerate limestone, containing numerous Solenopora compacta	1 "
Mottled slightly magnesian beds with a few fossils	6 "
Band conglomerate, oolitic, and pure limestone, with a few layers of mottled oolitic limestone, and contains some fauna as in the bed below, and in addition solenopora compacta	3 "
Massive, mottled, slightly magnesian limestone with a few thin streaks of pure rock, weathers to chert, and yields silicified corals in abundance. Very fossiliferous containing tetradium columnaria, streptelasma profundum, columnaria halli, and stromatocentrum (Lorville)	8 "
Homogeneous dove and slightly magnesian, massive limestone containing thin crystalline bands	9 "

55 feet 2 in.

Harrodsburg to Bowling
Green north to High Bridge, Ky.

755 alt.

Section in area of
Harrodsburg, Ky. Top of here capped with
upper Eden

no top. about 30 ft. (Colby beds)
Murchison ls.

5' sub granular + chaly. full of bryozoa.
4' Colby + shaly, weathering yellowish.
5 ft. granular, gray ls. The 5' from Murchison
about 10' rather dense, subcryst. colby.

on layers 4" to 2 or 3 ft. light and more yellow
dark ls. with vert. cal. to 1/2" subcryst.
9' shaly. Isocrinus bed.
3' thin bed. mostly white, dense with cryst.
shales - shaly parting to
3' finely granular, gray ls. with T. etc.

1 ft. irregularly laminar, shaly.
3' light gr. mottled with fine gr. light above
finely laminar + cross-bedded - full of T. etc.
5 ft. Cryst. gray ls. with Cryst. granular
bedded shaly with cryst. ls.

Old Gasts. fossils and

2 m. S. of Bowling

About 10 ft.

4' Sub-cryst. full of Cryst. granular - porous light gray.

5 ft. fine grained, bluish gray ls. irregularly bedded + mottled: bedding planes

4-12" Cryst. bed full of bryozoa. Then filled with Helicotoma bryozoa + P. etc.

6 ft. gray, fine granular, sub-laminar, massive ls. fine fossils

bedded with thin, wavy plates of chert. behind fine subcryst. ls.

granular ls. fine - sub-laminar bedded with light + dark gray bands -

probably phosphatic - fine fossils.

Bryozoa beds.

This bedded with shaly cross - somewhat shaly weathering.

Princeton

8-10'

12-15' Murchison ls. with good layers in upper part.

cryst. thin bedded + shaly

about Cryst. ls. grayish with Dalmanella + small Raf. etc.

light

about 15'

14' mostly white Cryst. ls. Cryst. small; upper 3' laminar.

Fossils deep in lower 2 ft. which contains species recalling Bowling Rd.

1 1/2" layer of chert. Shaly ls. with upper 2' of bryozoa.

marl 1.20' - 2.4' (Thickness to 4 ft. at quarry N of High Bridge + has 12 ft. more)

chert layer 1.1' - 1.4'

Nearly all thin bed. T. cellulosa - in several layers. also noticed

the networked species.

anyone + Helicotoma bed in lower 10 ft.

Some thin bedded

650

Carbon

about 22'

2' thin bedded

For wood bed 10'

2' thin bedded

55'

mostly thin bedded, fine grained - like Glades ls. fine with 1/2" etc

Harrodsburg to Burgin,
Thence north to High Bridge, Ky.

755 alt.

Section in area of
Harrodsburg, Ky. ^{Top of Hill capped with}
upper bed

Section at
Harrodsburg
Ky.

Section, I & C. R. R.
from 2 miles south
to 4 miles north
of Burgin to High
Bridge, Ky.

Harradbury to Bangor
Thence north to High Bridge, Ky.

750 alt.

Section in ...
upper bed

Harradbury, Ky.
Mud, or up, ...
capillary ...

45'
Cathage ls.
Lightly weathering shaly
...
32-35'

19'
Bangor
Mostly dense fine
laminar ls. ...
2-3 ft. laminar ...
32-35'

5' 6" Arg. gray ls., with ...
...
32-35'

31
Bangor ls. - well ...
...
26'
27' 9"-10'
25' 1'
46'-50'
21'-24'

70'-90'
11-20'

9'-10'
12'-15'
14'
15'-20'

26'
Tyrone
95'-90'
11
15'-20'

mostly thin bedded, fine ...

see p. 20 ...

22

Sections at
Cynthiana,
S. of Poindeexter,
and S. of Lynn,
Kentucky.

23

Wright's

Sequence &
 classification
 of Trenton
 formations in
Kentucky.

Dec. 1922

Partly incorrect and largely
 obsolete

Ky.
Trenton ~~exposed~~ (sup. #3)
Cystodonta formation
Rogers' sup. member
Pleurobionda bed 1-18 ft.
"Nicholas horizon bed" 10-15 ft. Dendro. & Cyprina zone
Graty shale member

Shale 0-3 ft.
Limestone 1-4' } at Sparta
Shale 2' - } - mass of Lichens

Porosity member 20-30 ft. about at Port Pleasant & East.

Cystodonta formation of limestone

Greendale member = Top of Trenton at Port Pleasant
(There were long thin in central Ky.)

Port Pleasant member = All of a Flanagan zone - The shale red in this at Graty and Port Pleasant

Perryville limestone

Consists of

Typical form is - Schinia

Flanagan

Strophomena, Strophomena, Rhynchonella

Homotrypa salina

Flanagan

? Lower Cystodonta granular

Bigby

24

Flanagan
Sta

Foster's

Ky.

25

Haverdsham.

Waller County.

Cathays.

Cathays.

Flanagan.

Str. vicaria
Din. reticulata

5 ft Cornishville

Perryville.

Bigby.

Flanagan

Bigby.

Helicotoma stromboides
Strophomena vicaria
Dinorthis planumbona (Linn.)
Pleurobionda

This cannot be Flanagan of the typical
Flanagan which the Perryville
Group is typical of, in lower bed

Helicotoma
St. vicaria
Dinorthis planumbona

The Perryville ^{stage} extends northward
to near Frankfurt and northward
to a point north of Paris. (see p. 13 note)

Fossils
 sequence of
 Trenton formation
 in Ky.

24)
 Stratigraphic sequence at
 Frankfort, Ky.

Stratigraphic sequence at
 Lexington to Ky. River,
 between Valley View and
 Bernards, Ky.

Determinations partly obsolete

Tracy's Key

~~Tracy's Key~~

Collaps = zones 33, 34, 35.

~~Tracy's Key~~

Tracy's Key = zones 33, 34, 35.

60' = Bigly = zones 21 - 24

94' = zones 11 - 20

35' = zones 7 - 10

Curdsville = zone 6

up. Black River missing = zones 2, 3, 4

(See detailed section No. 29, p. 33.)

Tracy's Key

100' + 10' = 110' = zones 33 - 35

Tracy's Key

35' = zones 7 - 10

50' = Bigly = zones 21 - 24

90' = zones 11 - 20

25' = zones 7 - 10

1-10' Curdsville = zone 6

up. Black River missing = zones 2, 3, 4

Tracy's Key

28

Photographs taken season of 1906

Roll I

Exp. 1. Blue Spring, near Mercersburg, Pa. Bug, dog and
self - taken by Store.

" 2 to 7 Central Kentucky

" 8 - 12 At Dixon, Ill. see notes

Roll II.

Exp. 1-6 at Savannah, Ill. See notes.

Roll III

Exp. 1

" 2 Anthony Hill, St. Paul, contact Fusoid & Zygospira bed

" 3, 4 & 5. Panoramic view of Brick Works diggings, W. St. Paul.

" 6. Nearer view of upper part of same - Barthes hammer at top
of fusoid bed.

" 7. Plattville ls. in W. Wabasha street quarry.

" 8. Bluff of St. Peter ss. from Wabasha st. bridge.

" 10. Base of Magnolia - Head of Pomeroy Run, Wyckoff

" 11. Fusispira bed, lower part, with spring, " "

" 12. Ice cave spring, Decorah, Iowa.

Roll IV.

Exp. 1. Upper Magnolia shale at Pattersons Spring, near
Brainard, Iowa. Dr. F. Becker, A. G. Becker and Bussler.

" 2. Nearer view of same.

" 3. Contact Fusispira and lower Magnolia at loc. 3 m. e. of Elgin.

" 4. At Elkader, top of Galena and phosphate bed base of Mag. see p. 34

" 5. " " massive dol. beneath - view looking from S. 15 mi. " " "

" 6, 7, 8. Views of erosion channels at Darlington.

" 9 - more distant view of same.

" 10 & 11. Plattville form. at Mineral Point, Wis. see p. 38

" 12. St. Peter " " " "

Roll V.

" 1 & 2. Probably spoiled - same as 3, 4 & 5. Panoramic view of West Point Green Quarry.
6 - View from river ferry boat of bluffs south of West Point quarry - St. Paul river
7 & 8. Ferry boat scenes.

30

Section at bridge across Three Mile
Creek, 2 1/2 m. s. Newport, Ky.

31

Section at Brint, Ky.

Section at bridge across Three Mile
Creek, 2 1/2 m. S. Newport, Ky.

Section at Brent, Ky.

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3.2
4.8
15.7

445
23
470

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The Big Blount represents massive beds of Trenton type. These beds are completely disintegrated. The Big Blount is disintegrated and probably formed in the same place, only not of New Richmond.

Profile of Blount

Blount
19' 3' Blount
52' Blount
63' Blount
15' m. m.

Ky

33

River Quarries
West Coaling
June 16th 1909.

Summary

* a piece of Blount contained several Trinitella

River Quarries

New Richmond

Just to the west

Near Spars.

Key.

(34)

Rhyolite
about 3.5', blue
cryst. ls. liberating
abundant, highly foss. chert
on decomposition upper 1/2 of bed
full of Rhyolite, lower
more cherty and with
numerous gastropods & cephalopods
Lingula, Coriophora, Bellinophora
& Saccaria.

Fault crosses road something like 1/2 m. north of river.
South of this, upper Carter (Tyronia) north of fault plane with
basal Lingula on S. side. Continuing
south the rocks dip steeply southward
so that the modioloid bed remains
at level of road to near
the river at R.R. bridge
opposite Valley view.

Flammaran chert
Red ls.
modioloid bed
by Carter

Tyronia
Carter

modioloid bed
by River

The Cardville is well exposed in quarry near river
consists of interbedded cryst. & subgranular or sandy blue
ls. with an occasional thin seam of blue shale. The last
contains "Fucoids", the cryst. bands are full of fossils
among them Varnexina. Contact at top with Modioloid
& "Oriskany" bed (Tyronia) normal, the latter differing only in being
much thinner bedded and more shaly, and appearing
less blue.

Took 2 photos of small houses in Varine, and
one of quarry - same are Nos. 4, 5 (Varine) &
6 in quarry. No. 7, with Hamp, represents Cardville weathered
on opposite side of river.
Thickness of Cardville in quarry about 30 ft.

CT

35

About 1899

Wave marks at
Mott's Dairy
Mott's on 3 mile
creek near Newport, Ky

Total length of exposure
about 100 ft. will show
30 or 40 ft.

Rock 6"-8" - composed of
fragments of fossils - chiefly crinoidal.
on bottom with clay pebbles -
shales above & below.

Alt. 70 ft. above down dip.

Average width from summit
to summit about 2' 6"

Average depth about 4 inches.

2 miles north of		
Frankfort, Ky.	on shore - Frankfort Pike, 13th	734
"	"	855
"	1 m. SW of	819.5
Frankfort	1 m. N of	796.2
"	"	855
"	1 m. N of	836
Alt. at Tg road	"	734
" 1-2 miles N of at double	"	606
Elmore, Ky. (Old Frankfort & Frankfort)	"	504
"	1.2 m. N of at small road to west	574.2
Frankfort, 1.4 m. S of - SW cor. Rough House (mine)	"	512.7
"	Shelly - 3.8 ft.	
Shelby, Ky. - Quarry of	Q. & 2. & 3. & 4.	936

(36)

(37)

Sections

Shelby County, between
Lordsburg and Dorman
Springs, Ky.

Spawton, Ky.

Colby, Ky. - R.R. cut. - Tinsley gr. -
Upper Cathey ls.

Conostellaria teres Wb.

Solenopora

Escharopora (ponoma group)

Perrinites

Heterostrophia - *Dekayella*

Conostellaria fischeri Wb.

Heterostrophia sp.

Stomatopora inflata + *delicatula*

Atactoporella sp.

Ortonia -

Cyclonema 2 sp.

Modiolopsis sp.

Rafinesquina

Crepidula similans Wb. (var.)

Orthorhynchula sinuata Jan.

Heterostella sinuata Hall.

Petigopora

Ceramoporella

Lophospira (?) not abilis. M.R.
in up. zone, or Cordville L.

Liospira *progre*

" (?) *muscula*

" *angulata*.

(?) *Homotrypa* *saltus*

X *Trematospira* *beachi* (?)

Gyromma *pulchellum*

Liospira *abrupta* in up. zone, + at Marguerite

" *progre* in Cordville

" ? *muscula* " " (also in top of Flamagan)

Coll.

Orthoceras juncum T. D. R. S. R. M. G.

"

q.

Cuds.

Cyrtoceras q. 48361 "

Retinoceras tenuifilum Cuds.

{ *Tendoceras* (?) q. 48201 Cuds.
{ *Vaginoceras* (?) *parvifilum*.

Lophospira ovum,

Alvin Reef

✓ Archinacella cingulata.

"

Simulatrix. (Modiolus in bed, Frankfurt)

Pantodonthis parvoluta

" "

" ocellata.

"

obesa. L.T. Burgess & Lowville

Orthis ovata bidonata.

"

obsoleta.

Bucania Halli, Candorville ls.

"

elliptica.

"

"

Canadella similis

"

"

Bellerophon subglobulus.

"

Raphistoma denticulata

" "

Amospira alexandra

" "

Lophospira helictes Van.

Winemere.

Up. Lowville

Lophospira obliqua in up. Low. & Candorville ls.
L. parangulata in Lowville also L. ovum

✓ *Cyrtodonta* *hera* BR M. Co. ⁽⁴³⁾ *Ulmus, Rub*
" *subrata*

✓ " *rotulata* BR M. Co.

✓ *Vaukemia* *umbonata* - BR M. Co.

✓ *Phthorocardia* *umbonata* - " " "

C. ✓ *Ctenodonta* *substantunda* - BR. M. Co.

C. ✓ *Vaukemia* *gibbosa* " " "

C. ✓ *Cyrtodonta* *humensis* Barr. Pit.
(figured as *subrata*)

Cyrtodonta . y. *Canada* . No. 46855-