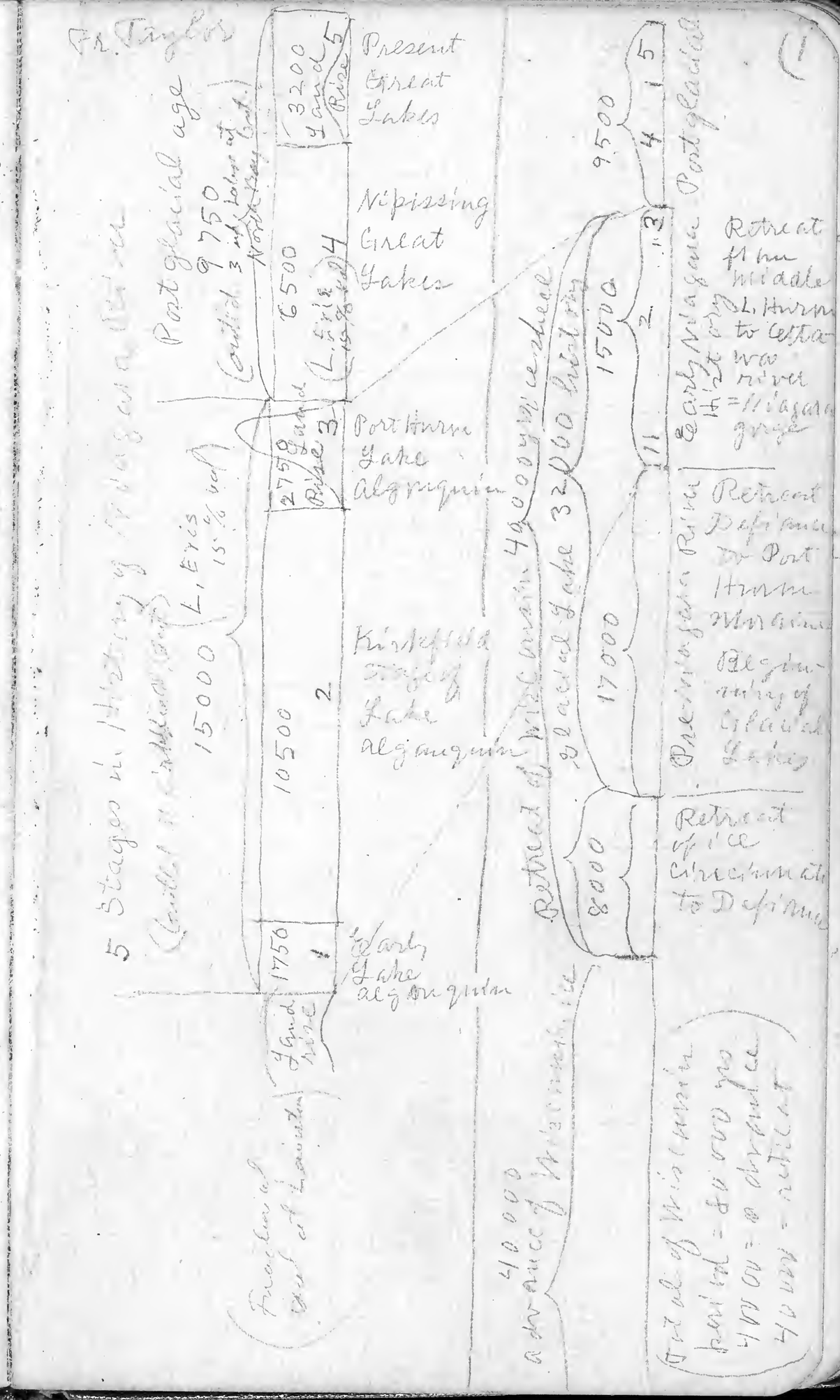
All inventor implies a previously
felt need. One of inventor's
[illegible] most original
Most things we enjoy [illegible]
Result of [illegible] grants,
the first man

Read [illegible] open and
[illegible] was paid [illegible]
[illegible] much by
[illegible]
the best show at Dy
Retail [illegible]
[illegible]
ideas are most [illegible]
Dundas [illegible]

The Tenth Northern Shoreline
[illegible] cinnamon
A [illegible] of a Map of human
[illegible]
School [illegible]
School [illegible]



Miller & Ulrich.

About 1 mi from Paris on road to Wheeler from Bethel pike thru hardwoods. On East side of pike in ravine Sandy can be seen for some rod, just a little above fence.

Regular Cincinnatian Section, Upper 10 ft. thick, 2 mi. thick, dark, in upper to gray at top

---

Ulrich.

From Millers bridge go 1 mi South to where overhead bridge crosses R.R. A hundred ft S of bridge a path goes down into the cut. Opposite the point where this path down the gully reaches the cut, there is a small cut running E from the east side. Here, on E side, a large gash projects a little and under that projecting rock comes in the new bentonite.

All rocks here Lower ½ mid Ord
Saluda bentonite

Clarksville
Camden
Arnheim
Waynesville
Liberty
Whitewater
Elkhorn
Saluda
Point Pleasant

Merton Williams

Eaton
Lyndeport { Fine dark impure limestone, Graptolite-bearing limestone 7-20 ft. Dense limestone (4 mi from Eaton) = Eaton bentonite member }
Rochester

Clinton formation { Iron ore and limestone, Mill Creek shale, Wolcott limestone, Sohio shale }

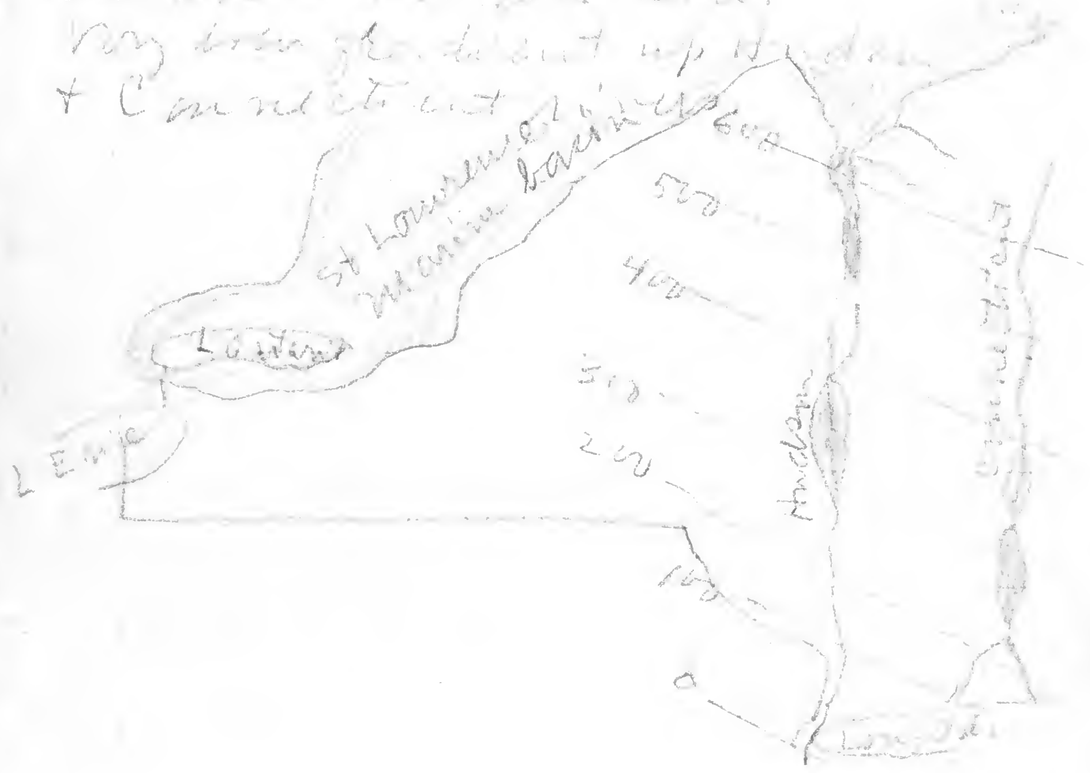
Brassfield formation { Thick sandstone 7 ft., Massive sandstone (1 mi from Eaton) }

Cataract formation { Cabot Head shale, Manitoulin dolomite, Whirlpool sandstone }

Mining Feb 41.
Stop in Dayton Geol. Soc. Meeting,
Lawrence, 1902.

Fairchild.

735 ft beaches above sea level at Canadian boundary
361 ft beaches at Hamilton
0 ft beaches at Sandy Hook.
Land depressed during glacial times; now raised above sea level.
Ray trace flooded up Hudson + Connecticut



Bottom of section

Pleistocene	Günz glacial stage	1	Kansan
	Günz-Mindel Interglacial stage	1	St Prestian
Glacial epoch	Mindel glacial	2	Kansan Illinoian Wisconsin
	Mindel-Riss Interglacial	2	Sangamon
	Riss glacial	3	Cromerian * Aftonian
	Riss-Würm Interglacial	3	Yarmouthian Mankato *
	Würm glacial	4	Upper Mankato * Cary-Iowan Tazewellian Valders *
Recent	Post glacial	4	Various prehistoric cultures + above Rotenhausen * & Ice Platform

Cultures in *

Rivers in Maryland section

Amphibole vein in Lower Llanvirn.
Type at Primrose. Complete.
Cedar Hill Shale.

Strigata quadrata Eichwald
Trent in Lower Ord. N.A.
Normal to 07, 67 Cox
Outer shell Corys blade Lenticular
strine.
Inner shell complete, + connecting
lamellating strine superficially
in middle part; particularly do not
show in outer shell.
Strong median septum, good
central scar. Elements internal
covered by cuticle as in Leptaena
Rhomboidalis.
Ventral valve mostly convex as in Adult
Cerithe frimbriata.

Principles of Stratigraphy
Sir Archibald Geikie F.R.S. 1903

Neuter Genera in Insects, Frank Balfour Browne, 1958

Hypothidium ? a Fine Pleurotomaria.
Slide shows small
"umbo"

Wright,
Red Jasper ornament +
Lake Superior copper
as far east as Eastern Ohio
Recrystn. glacial.

Kingston glaciation pre-dated
Labradorian glaciation.

Leverett (+ Ch. am Trelease)
Recrystn + Labradorian ice sheets came
down Continental mesh + not
from Recrystn. first.

L & T Bunting Victoria Memorial
Museum Ottawa Ont.

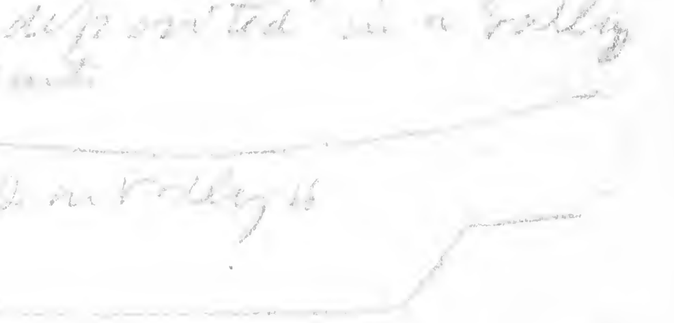
Parker Fountain Pens.

Don valley
Bruno bog in Don Valley Pleistocene
Cervalces latifrons
Bison
Ursus [illegible] remains
Deer - 2 kinds Caribou
Red Deer Edmontonia

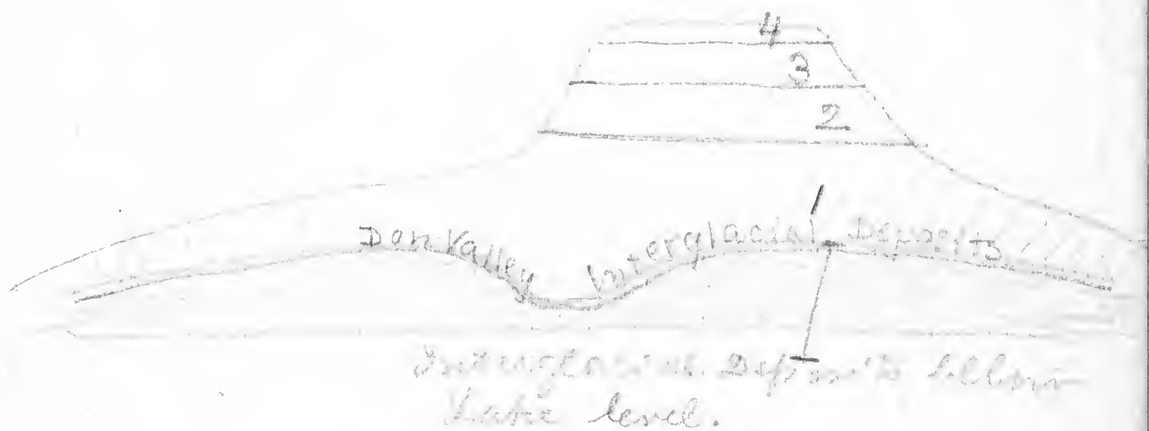
Mt Germain
Mt Nestor
Maples 2 extinct species Pl 3.

One kind of old age of Don valley explains
in that it is covered by 4 till sheets
separate with interglacial gravels
deposits. Correlation of these till & inter-
mediate deposits with those noticed
on L Ont, the Don valley deposits
would go back to the Aftonian

Before even the Don valley interglacial
deposits were deposited in a valley
with low gradients



We have some idea of time necessary to
form present Don valley. The former
valley is much nearer bedrock, would
be required to have taken much more
time, perhaps for Aftonian age.



The Glacial Succession in Ohio
Journal of Geology Vol I — pp 129–145
Vol II — pp 613–

Characteristics of W D Anon '93

Elvira Wood.

New species introduced along
medial line of dorsum (dorsal)
cactoceratus

Talebooriums developed from Cacto-
ceratus.

Trimerus.

p. 153.

American Geology. 1855.

Amblyopterus.

Pleura, 4 lines long; with a short keel; a little elliptical.

M. pinnae flabellatae (n. s.)

Shell large; 2 inches ? wide; only slightly divergent; left valve large; surface marked by concentric lines and transverse waves, giving it a fan-like appearance.

Graine shales.

Trimerus.

American Geology. 1855.

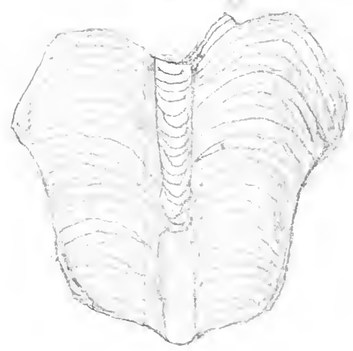
p. 166.

Brachiopoda (n. g.)

Right valve oblong, longer than wide, produced at the beak; beak small, pointed, curved with obtuse apex; cardinal area small, triangular, divided by the beak and by a median line; surface covered by numerous distant concentric lines. Length ? (Fig. 37)

Graine shales and sandstone Graine, Jefferson county, N.Y.

Fig. 37



Enlarged

Pleurotomaria subconica Hall.

--a Trenton limestone, extending up into the Graine shales, where it is the rarest Carboniferous.

Cyrtolites (Portlandia) trilobatus d'Orb.

Found in limestone, Graine shales.

Eumenes.
S. (subgenus) sinuata (Say.)

p. 199.

Fig. 61.

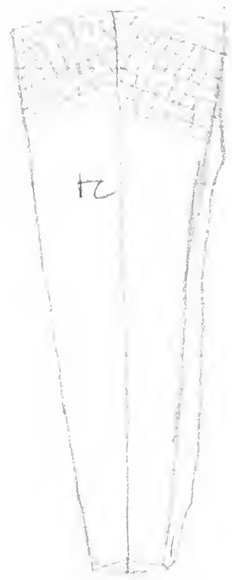
This shade = St. fl. rubeata.
Now name for sinuata desired.

Eumenes fraternus (Say.)

p. 200

Pygidium elongated, narrowed to rounded apex; transverse furrow near middle of face at an angle of 130°. Ridges of side divergent at an angle of about 25°. Both the transverse and longitudinal furrows strong. Head of the C. fraternus; thorax and legs of the same; wings and venation as in the species under consideration. The markings show a general resemblance to the C. fraternus, except that they are much coarser and the pygidium is much longer. Lorraine shades. Lansing, Jefferson County. Cabinet of Wm. Collins College.

Fig. 65.



Commune
Recepta circolare circolando (n. 2)

p. 230

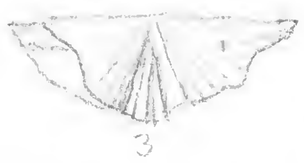
Nuova Circolare in stile francese che stabilisce il numero massimo di Vetture nelle Rimesse, in proporzione della superficie delle Rimesse stesse, e del numero di Vetture da ciascuna possedute.

Fig. 52.

Collezione Comunale (n. 2)
Circolari diverse.

(17)
p. 236.

Spirifer trentonensis. Plate XV. Fig. 20



Same figure as in text of Bull. 9 N.Y. St. Mus. Trentonensis.

Page 235.

The species varies in the region as from the bottom of the Trenton limestone, at Trenton Falls, etc.

(A similar but larger form referred to Hall's figure

Same as fig 105 page 396 of Geology Report 4th Second district. Is very likely a variety of Trentonensis

Pentamerus sp.

Dalmanites (Synhomalonotus) Pleurodictyum problematicum Goldf. Trenton Limestone. (Not Lea)

Woodruff's quarry, SE ¼ Sec 8 Town 30 Range 5 W

Fifth Annual Report.

p. 52

(left) (cont'd) Assignment forms, [illegible] graduating, [illegible] and [illegible] [illegible] [illegible]

C. (Syracuse quadrangle) cont'd. Southwestern
C unproved; drive meander eleva-
tion; portion in swamp obtained by
rounded. Low ridge from
Rome, Oneida Co. Richmond,
Sullivan, Lebanon &c.

p. 53

Rome Location, South of canal.
2nd Talcottville x - In thin lime and
3rd Woodruff } quartz fragments
4th Canastota } Layers of sandy &
Custom pond } gravel mixed.
upper or channel
part of Swamp land
section.
Mostly gravelly near Rome - shale.
Tentaculites delphicolus
Leptaena rhomboidalis

Hamilton village in the shale.
fossiliferous.

Talcottville } 2 mi. S of Rome
Canastota } Bryozoa, Leptaena rhomboidalis
Cyrtina hamiltonensis
Strophomena rugosa var.
Chonetes mucronata

Woodruff - Sandstone. 5 mi S of Rome
No fossils.

Junction of Mexico & Oneida
N to Rome Oneida Co
N W by Syracuse & Utica railroad
thence east to Hamburg Center
by the plank & crushed stone
Mexico road
Butterfly P. O.
by E + W line to Lenox.

3 miles below Manlius, on
Salmon creek.

Red shale in 7th mile of
River at Fayetteville.

Stray Lycodontis moorei and shoulders of Sabicus sp. (Blue Lagoon, Efate, New Hebrides) at Port Vila wharf

Rinne. See 2 prayer cushions.

Frankfort State. Whitehall factory men Primavera cultivation of land Rinne.

Standstone slate of Pulaski Atlanta Connatichi.

=SE of Rinne + 1 mi S of Whitehall, Illinois.

Grey sandstone Woodruff =SW of Atlanta + Connatichi 4 mi from Rinne, Illinois.

Fusulinoid limestone.

1850 Left room alternately. Spread with [illegible]
30 Straight needles " " "
40 Knitting needles " " "
41 Stockinet " " "

Stockinet: two rows knit, one purl. Knit for 10 2"

Knit one back = Ridges across for knitting needles!

Crassatella

p. 210

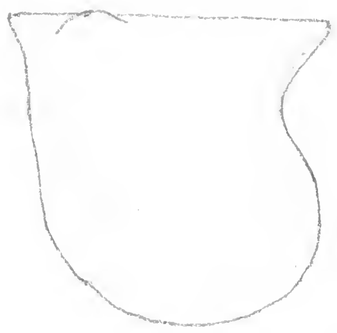


Fig 3.

Astarte Castanea

p. 269

Fig 21

Reduced in Size to Show Shape

Crassatella
Stamped marl, Arcadia,

Tertiary fossils. Common in the marl, which is very fine and dark blue, and contains small dendritic markings, probably made by worms. Some specimens are in the middle Eocene Ocala Limestone. Arcadia, Manatee County, Fla.

The fossils resemble Recent species, and having been in the earth 20 times longer than the recent, but it is a fine flutter and perfectly Empty shell.

29
p. 200

Ovoid

Length - breadth index

Adams Falls, N.Y.
in Oneida limestone
Fig. 11 2 nat. size.

Long-ovate

Carlisle Pa.
Coal Canada Co. N.S.
Fig. 12. Witcomb L.S. collect.

Cameroceras,
trentonense;
Near Middleville, Herkimer
County, New
York.

(3 inches left of a geniculate
[illegible] Lituite)

Plectambonites planoconvexa, Sowerby,

P. 271

Fig. 10.

From a limestone bed
at Mt. Pleasant station
4 miles S. of Nashville
on the Nashville &
Decatur R.R.

Orthis testudinaria (Dalman) Hall.

According to Hall, Emmons
gives an illustration of this
form on page 377, Pl. 10
fig. 3, of Pt. 2 Rept. of North Car.
1858. But Emmons does
not refer Dalman's species to
Orthis testudinaria,
Hall.

Pike shale
Murfreesboro.

Orthis testudinaria, Emmons 1860/67
Fig. 1. Page 396. Rept. Pt. 2.
Strata in Tennessee.

Plectambonites planoconvexa, Sowerby
Fig. 2 as cited by Emmons from
Hall and Pl. Nicholson.
Orthis testudinaria
Dalman
Orthis
subquadrata
Hall
Orthis
subjacentis
Hall
Cyathophyllum Murfreesboro,
Streptelasma divaricata
Hall.

Septamerella Hall and Clarke
Am. Jour. Science, Vol. 8, 1899.
Orthis testudinaria Dalman
Hall and Clarke

Utica group.

Jeffersonian Stage

Triarthrus beckii

Around the world, by formerly common
in medium to fine textured shales
in the upper part of Utica shale,
formerly found at Trenton Falls & common
around in Jefferson
Oriskany sandstone - Wide rock valley
Stage - 20 - Schoharie, Manlius, Becraft
with Triarthrus.

Triarthrus is found with the fossils
listed above

Vide Hall's Geological Survey (Canada) Decade IV
1863 p. 80 & fig. 5,
Very abundant at Trenton Falls,
in black, argillaceous limestone
[illegible]

figure 6a pl. 35 of Hall's Illustrations
figure 7 same subject shows
ventral surface.

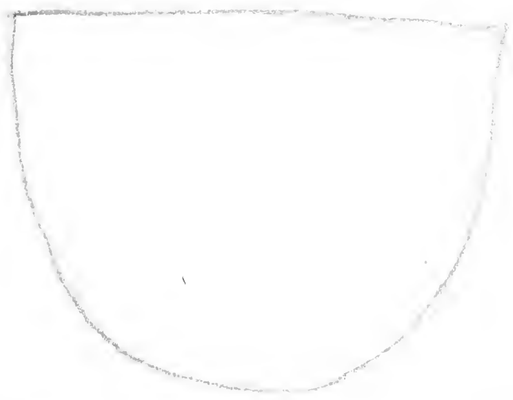
(=Arionta) Conrad p 403.
Terminus
Pl II.
Band 1 112.

Washington Marble

Mr. [illegible] Lees and Little Sandy creeks,
Co. Pike County [illegible] at Pendleton & Johnsonburg

(Series) Stockbridge Limestone
(Lower Division) Arthur Station

(Reference) Vide Hall's Geological Survey
(Canada) Decade IV 1863
for U. S. Census Report - p. 31 (Art 3)
Locality of Trenton Limestone
Compare pl. 10 fig 1a pl. 31 of Hall's
Illustrations.



Hyattidina parva Hall - Census of [illegible]
Quoting Utica shale, Trenton
Point, Ontario - Hall Triarthrus.
Remarks: Rock 112, Pl II, p. 394
Set 110, Fig 4,
Triarthrus root Lorraine Gp.

Camarella calycanthus. Tr. 696.

Cy Clerfeina b. Bulcata. Tr. 713-1.

Hubnella subglaucata (32C-1) 1342-1.

Paratrichia hemisphaerata Gr. 710-1.

Protrygga Wyliana. Sem. Gr. 714
Lange. Watertown.

Syntrichia laevipila (Brid.) Arn. 442.

Tortula ~~subulata~~.

Tortula subulata fatua. 736-2.
Pinal. 736-4

Tortula subulata mediterranea Pinal. 1130

Tortula subulata pilifera Bruch. 1365

Orthotrichum pumilum 1134-1.
2 Pinal. Jones.

Ochrobryum fragilifolium 1064
Watertown, Africa.

(Cyrtodontium planum)

Bryum argenteum var. lanatum, 928-2

1 R.
1194 Hedwigidium imberbe Bruch. Pinal.

1191-1
Heterocladium squarrosulum. Pinal.

1190-2.
Pylaisia polyantha Schimp. Pinal.

679-2
Tr. Pylaisiana gracilescens.

1121
Hypnum recurvifolium

1120-1
Rhynchostegium serrulatum.

707-1
Cr. Rhynchostegium subsecundum.

Fl. C. 442.
Syntrichia laevipila

1124-3.
Orthotrichum Canadense
Vahl. Watertown, Wis.

1126-1
Cyrtodontium planum

947-2
Syntrichia papillosissima

947-2 Schimp. Pinal
Hedwigidium imberbe
Hedwigidium integrifolium Bruch.

Cardinaropsis platelliformis 780-3
P. Schafer

Cyclomorpha arctica 752

truncata 1380-1

Fusispira turbiformis 967-3

Manchuriconcha bellicincta. 768-2.
Mrs. Rogers emp. nov.

Helicina.

Leptopoma alticostata. 1156-3

Pleuroterata? auteroastra. 757-11

Craspedotropis gracilis 789
circumdata 791
profundata 790
sp. indet 788

Craspedotropis tenuicincta 815

Cyathocheilus (Craspedotropis) subcarinatus 823

Eoradiculus subcarinatus 603
Long version
multitrabeculatum

Opisthocoma ovata septentrionalis 1141-1

trilineatum 808-3.

Vitta acamptodromum 1142

crenulatum 1265
1265-2

Cyclophorus plexus. 831
*

Dentellum gigas.

Hemitrochus delphinocephalus (Gabb)
Stoliczka

Aetheria radiatostriata 705-3

Leptotrochus Jewettsmithi. 685-6

Unionidae obtusa 628

Trichotropis planospiralis 1144-1
-2

Perotrochus mediolateralis 842-2

Cardium Jewettsmithi. Animal circular in the mantle. Two faces shown in fig 2a. Foramen does not show at margin but there is a small one just inside the edge.

Cardium Jewettsmithi. Animal circular in fig 6 b. One face exposed. Part of mantle shown. Foramen shows at margin. Angle in middle.

Hyperdesma [illegible] 747.2.

[illegible]

Mesodesmopsis [illegible]

Mid Type.

Paleocene.

Crust

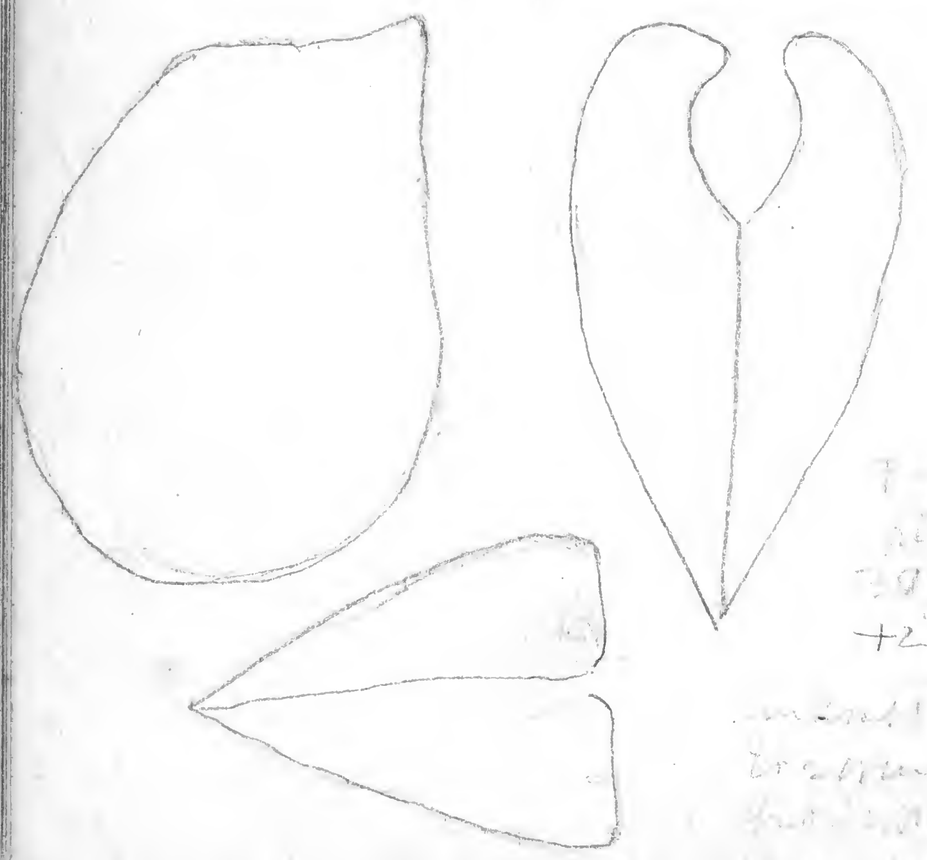
Appearance

Teeth.

1130-1. Mesodesmopsis [illegible]

Mid Jurassic Yorkshire &c. 103.

= Pleurophorus



Lophospira abruptiformis
Ulrich Vol. III Minn.
Bucania carinata Cyrtolites
Isclagyrinita unicarinata
Ulrich Ohio Vol. VII

Hormotoma Hall
Vol. 24 State Mus. Report

Lophospira abruptiformis
Ulrich Vol. III Minn.
Bucania carinata Cyrtolites
Isclagyrinita unicarinata
Ulrich Ohio Vol. VII

Hormotoma Hall
Vol. 24 State Mus. Report

Bucania carinata Cyrtolites
Isclagyrinita unicarinata
Ulrich Ohio Vol. VII

Hormotoma Hall
Vol. 24 State Mus. Report

Outer mentum of Late Miocene
= Bluff at Dayton, South of
Franklin & S of Cincinnati area,

Middle Pliocene Osage Formation,
West Steubenville, Steubenville area
Dayton, 3 mi S of Scottsville,
Easton, New York

Glacial Mam Gull, N.S.
Ontario Coast

1) Heidelberg, Sandusky area, Mich.
of Nebraska, 1907, 6 mi SE Scottsville,
69 ft above Jaw, along with straight-
tusked elephant + Equus cf. Mi-
gonias, Jaw with 3 teeth, Upper
first molar broken,

Neanderthal 1856, stone age
person, upper arm + thigh bones,
abnormally bladder + other bones,
Now part of the Düsseldorf
in Germany,

First found in 3rd glacial period,
period of Mammoth with giant prehistoric
Animal skeletal remains within
Neanderthal + below Quaternary
deposit,

3) Pliocene, Near Mt Carmel
(Portsmouth)
In Scioto River at Portsmouth,
Ohio in Scioto County, Ohio,
Ohio River Formation + Intermediate
Stone type,

Glacial drift, Near Mt Carmel
Ohio River Valley, Ohio River Valley,

1) Hyracodon perissodactyl with
two teeth on in mouth,

2) Diceratherium Oreodont perissodactyl
Skull + jaw, Jaw, perissodactyl
Horse + camel related with long
ear bones, Long depressed
skull + Strong bone bridges,
Mt skull for muscle,
Perissodactyl mammal with Camelian,

3. Continental primary in Pl 2
Upper portion Jaw, Pelvis
bones + Implements, 3rd molar
Glacial period, Stone age man
Neanderthal, Europe, Germany
Old man Skull, Europe Ancestors
175 feet below Top of ground
On inner wall,

↗ Pratt Institute
215 Ryerson Brooklyn.
from 2nd Floor Reading Room
to Reference Room.

Board of Education
Park & E 59th

Dr. W. H. Thomson High, 16th floor W 59.

High School of Commerce W 65 nr Broadway

↗ Vocational guidance, W 138 nr 5th Ave

↗ Vocational Service for Juniors
34 E - 12th
Mr. Reed 2 to 4 W 49 Madison
20 Nassau St. Room 1004 Park Row

Charles J. Bruce Elect Co,
513 W 25th St,
Stewart Bldg. Suffolk, Va.

Wiley & Sons

↗ Central Stat. Co. 147 Waverly Place
729 Broadway, cor

↗ Library stand 345 & 15
Fuller & Sturtevant
Two offices

Axel Born
Frankfurt a M.
Review of Biscuit & Sugar
Confectionery 15 Nov. 1913,
Nov. 1921

Unterwasserbeleuchtung bei
Springbrunnen.
Felix Markus,
33 Wien I. Lothringerstrasse,
27 Tuchlauben, Central Hotel

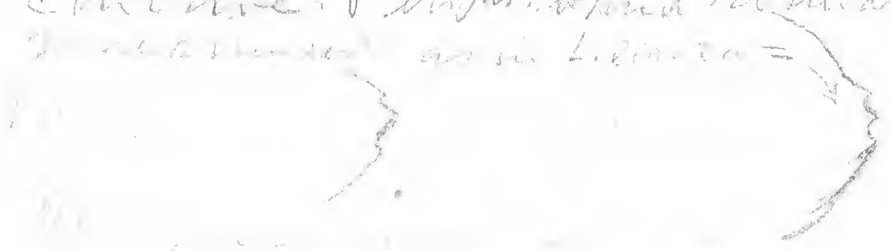
Die Diatomeenerde.
Calcareous Algae,
Dec. 1913. Scientific Amer.

Leptocapsa abbreviata Hall. pl. 23. fig. 29

Size + Reg. Ovate angle about 90° in L. medialis. Sides forming a wide & very reentrant angle. No carina in upper area.

No [illegible] Upper angle of L. not extended. Simple oval band depressed, bordered in figure fig 2a. here the middle line is rather acute and is nearer the upper bordering line of the band, than near the lower bordering line. Remph. band not terminal

On a second specimen in the same collection, which may belong to a distinct species, the band is distinctly bilineate, with the middle line scarcely more prominent than the other 2. The intermediate spaces entire. Simple, depressed rounded ligula



Pulcapsi is related to L. with Cyclotella striatus, Diatomaceae, Campylodiscus Dysteria, Bailey, Navicula with transverse striae + Hydrosera group. It is according to Lebour not of sr. Hall's genus the Navicula genus, since it has a raphe + the Epithemia genus is not terminal ligulae near the tip.

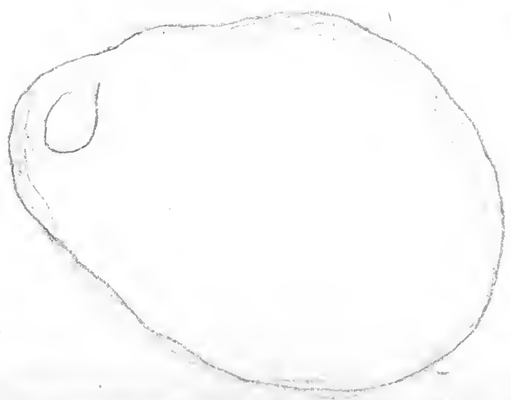
Reprinted from Proc. 697-17
Fig 2a Looks more like Permo
Rock that is marked Triassic.
It contains intraclasts / cobbles.
Fig 2f* is mildly faulted area of
Permian rocks but as this is on Triassic
one has extended.

Muschelkalk ground Fig. in Triassic
[illegible] part of unit

Sedgwick's measurements
for section in text 1134-2,
[illegible] Dr. Griffith's handbook,

Dr Thompson's fossil diagram
Muschelkalk marl shales
Pentacrinites shell bed
Ceratites nodosus. Myophoria Orbicularis-

Muschelkalk cuesta Hull pl 81 fig 1,
Scarp only = Dolomitic limestone
Limestone
Fields brick.



Muschelkalk cuesta Hull pl 82 fig 2a
= small denudational Headwards,
Lias Limestone ridge

Cyprina gentle foreslope Fig 2a pl 82
mark. Muschelkalk pl 82 fig 2c,
Pentacrinites

Cyprina mantle gentle Fig 2b pl 82,
Myophoria fossiliferous
Limestone Sandy. Pebbles

Muschelkalk Limestone
pl 83 fig 3c. Pedunculate
Plant roots. Fairly limestone & Clumsily
crystalline rock pl 2.

Muschelkalk cuesta Hull pl 82, Fig 4a,
Orbicular. Drift gravel & [illegible]
stiff fossils - like steep dam
stream from bridge

Muschelkalk outcrop pl 83, fig 2a
Marl with Pebbles, fossiliferous
different rock with rock
Acute Syncline angle

Muschelkalk Limestone pl 81 - 1a,
Pentacrinites Sandy Limestone
pl 81 - 1d. Sandy Limestone,

→ Orthoceras aequale.

↗ Clymenia [illegible] 1130–1 [illegible]

[illegible]

Cyclostoma.

Cornulites

[illegible]

Pal. (Ch) undet. [illegible] Rugos
Goniatites but [illegible]

Cornulites granulata.

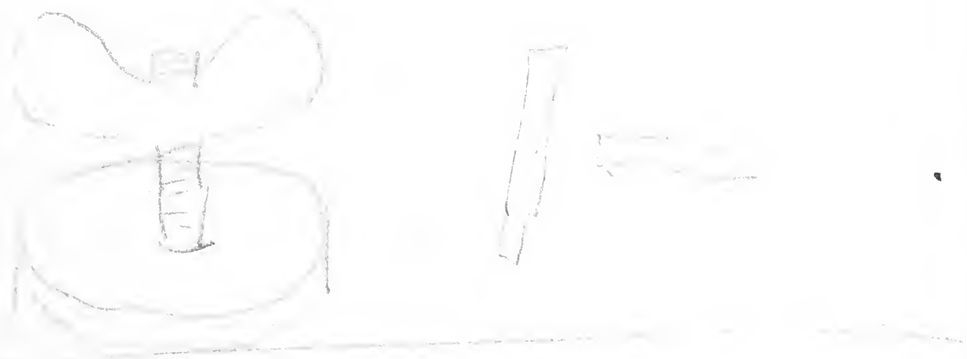
Orthoceras annulata. H + Wahl
Orthoceras annulata Hall. Pl. 82, fig 8 a-g
Cirrus annulata

of Stow 8b shows strongly [illegible]
annulated Cyrtoceratite type, being up to
tenfeet like [illegible] annulations of 8a
are very distinct, not [illegible]
marks. Actual [illegible] Cirrus annulata
of Hall & Clarke, however
[illegible] Portion
outline agreement [illegible]
373–1

Electrical Contractors' Supplies
Cliff Stevens, Prop. Utica N.Y.

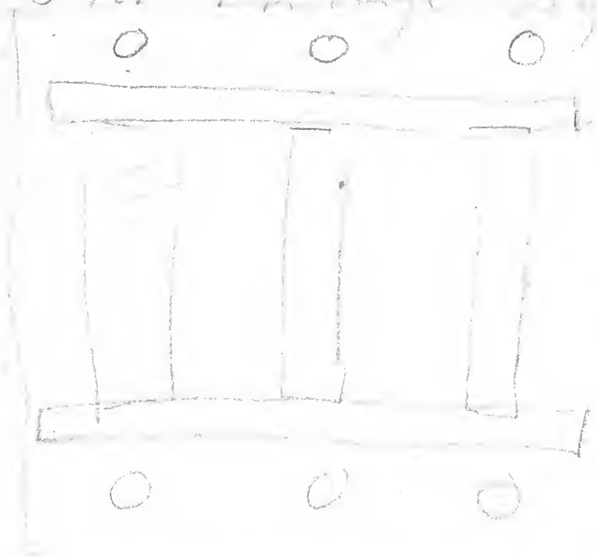
Hydraulic Jacks for Testing Purposes

Standard Instruments Co.



Amer. Bridge Co. Elect. Dept.
5 13 W 29th St. N.Y.

Your Village Dynamos



Series + Parallel

Automatic + Hand regulation.

5 Unit Generator
Standard Scientific Co. N.Y.

Bethlehem Iron - Coal - Ore Mine
Locations are Confidential.

Central Station Electrical Engineering
(Including Illumination, Motive Storage Batteries)

Electrical Measurements
By Members of the Staff of the
John Wiley & Sons,
Illustrated Text Book for Technical
Students, / With Tinsdale,
Wiley & Sons.

Headgate Rundell Wiley Sons.

Edison Plant. Mechanical
" Dynamos.
Illuminations.

Cyclocrinus [illegible] by the
= [illegible] in [illegible] of [illegible]
Tennessee, [illegible] the [illegible]
= [illegible]

Cyst, [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] Pl 26, [illegible]
[illegible]
[illegible]

Ref. [illegible] [illegible] Pl 31 – 1 B,
[illegible] [illegible] [illegible] [illegible] Dalm.
[illegible] [illegible] [illegible] [illegible] and a few Dalmanites
Dalmanites [illegible] [illegible] [illegible] up to [illegible]
[illegible], 697–2, [illegible], [illegible],

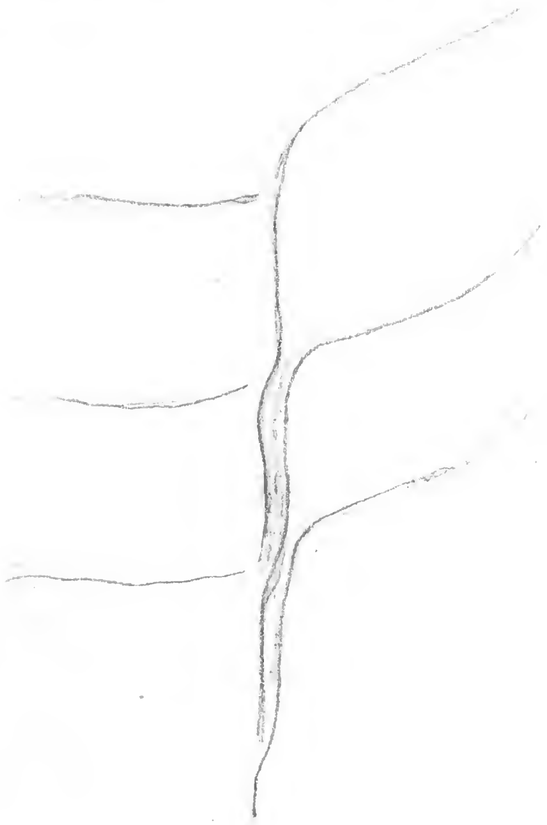
Chasmops [illegible]
[illegible] [illegible] [illegible] [illegible],
Two-faced, with [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible],
+ Schizocrania [illegible] [illegible]
[illegible] + [illegible] [illegible] [illegible] of
Onniella [illegible] [illegible] [illegible] [illegible]
of [illegible], [illegible] 2 [illegible]. Very thin shell
[illegible] [illegible].

Cruziana [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

Cyclocrinus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible]

Endeavour substation.



Stage Products + Mfrs.
11486 — P.O. [illegible] mile pole,
11492 — 2,00 extra [illegible]
Manhattan Lead Supply Co

J & W Woodland
Rochester
Telephone Service
Crane & Secretan [illegible]

U.S. Rod Wire
Cat. 1 Separate

Ectocrinus nobilis & new
Amorocrinus new
Technophorus Ulrich
Lancaster Ratcliffe
Lingula of crate from Ulrich
Monticulipora [illegible] & new species
Arthrodesma [illegible] Hall (Flexuaria)
[illegible] [illegible] [illegible] [illegible]
Dekayia [illegible] [illegible]
Trematopora [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] (p. 42)
42) [illegible]
Rhynchonella [illegible]
Monticulipora [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] with [illegible]
[illegible] [illegible] [illegible]

Agreement made this [illegible] day of [illegible] 1913,
between [illegible] party of the first part, and [illegible] party of the second part,

Witnesseth, that the said party of the first part, for and in consideration of the sum of [illegible] Dollars, lawful money of the United States, to [illegible] in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, has granted, bargained and sold, and by these presents does grant, bargain and sell unto the said party of the second part, [illegible]

Mac Millan & Co.
Publishers, 29 of March 1913.

Whereas, a Certificate of Incorporation was duly issued by the Secretary of State of the State of New York, on the [illegible] day of [illegible] 1913, incorporating Macmillan & Co., Limited, for the purpose of carrying on the business of publishers, booksellers, and printers, and other purposes as in said Certificate of Incorporation more fully appears;

And whereas, the said Macmillan & Co., Limited, has duly appointed the undersigned its agent for the purpose of receiving service of process in this State, as required by the Statutes of this State;

Now, therefore, the undersigned, Macmillan & Co., Limited, hereby agrees that any process against it which may be served upon the undersigned shall be of the same legal force and validity as if served upon it in this State, and waives all right to any other notice of such process than such service upon the undersigned.

In witness whereof, Macmillan & Co., Limited, has caused its corporate seal to be hereunto affixed and these presents to be signed by its [illegible] this [illegible] day of [illegible] 1913.

Macmillan & Co., Limited
By [illegible]

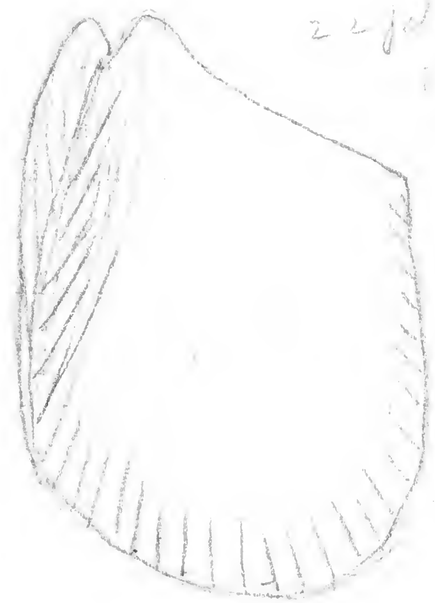
Whereas, a Certificate of Incorporation was duly issued by the Secretary of State of the State of New York, on the [illegible] day of [illegible] 1913, incorporating Macmillan & Co., Limited, for the purpose of carrying on the business of publishers, booksellers, and printers, and other purposes as in said Certificate of Incorporation more fully appears;

And whereas, the said Macmillan & Co., Limited, has duly appointed the undersigned its agent for the purpose of receiving service of process in this State, as required by the Statutes of this State;

Now, therefore, the undersigned, Macmillan & Co., Limited, hereby agrees that any process against it which may be served upon the undersigned shall be of the same legal force and validity as if served upon it in this State, and waives all right to any other notice of such process than such service upon the undersigned.

In witness whereof, Macmillan & Co., Limited, has caused its corporate seal to be hereunto affixed and these presents to be signed by its [illegible] this [illegible] day of [illegible] 1913.

Macmillan & Co., Limited
By [illegible]



Cordonian of Lawrence (1879)
Lower Silurian
Cambrian
Lower Cambrian

Lower Silurian

Upper Silurian
Basal Middle, Upper Black River.
Basal Lower = Upper Chazy ? Chazy ?

In Lower part of Quebec series
Metamorphic Quartzite
Anticlinorium Quartzite
Interbedded limestone
found at Lake Memphremagog
only in Beauce.

Trivium Lower Silurian
Appalachian
Upper Silurian
Lower Silurian
Cambrian

Taconian
Richmond
McMillan
Pulaski equivalent

Lower Cambrian
Lake Champlain
Georgia
Upper Cambrian
Potsdam

Typical Africa - Atlantic
Mt.
Early Mesozoic
Mazy
Appalachian
Atlantic
Interior

Eddy Bay formation regarded by Ulrich as part of Antricostic
Group = Upper Medina = Silurian

Taconian may be recognized as far east as Taconic.

Canadian-British = {Indian / Mediterranean}

Base of Genus Mentha, Not Known then
Medium of Nature
Portable synonym then Comm
a Richmond leaf.

Mentha with a fourth part of Richmond absent in Br Britain,

Birchbell = Mentha
< Richmond,
Hartfeel

Summary Characteristics genera / mud
absent in Richmond
Progressing Characteristics
Mentha redom
Pathogenesis
Whitlow
Antidotes
Arthritis
Cynicism
Pollen mucha
Dry Hydration
Asthma
Pneumonia
Suffix
Cyclamen

Characteristic Richmond

Stephen Common Nettle
Calamondin Vine
Portable medium domain
Tetrahedron Medium (Mentha)
Beautiful Mentha
Rhombotryon quadrate
Rhyndostemon Copse
Rh. [illegible]
= mottle for common clean

S 1 Millers bay.

Smooth benches and drowned channels
in bay from about 3 mi to S of
Millers bay. South of railroad
bridge shore 600 about 300 ft.
rather low in cut or bluff
at landing in ditch on road
& RR track the fossils are lodge
ye level = in soft clayey sandy
a.b.c. - drowned and tilted
a la west and large wood pieces
project out into the water

Out from Forest, 2 and 1/2 mi S of Chrysemys sp? (fam) and Stern-
mat verticum (abundant) occur
in the unsorted material
apparently coming from bluff
RR cut 1 mile due S of Ny Ville
tion.

In first cut S of station at New
Forest, (= 1/3 mi) Allurycha's
flower Gnamonia is common on
a few ft above RR level.

Nigell station = 1 mi S of New
Forest + 1/2 mi S of Nigell is the
quarry mile in ppr and S shore
= fine grained with rivers
bones + fossils. Plain
quarry is E of railroad
between mile + RR about

Just N of Paris. Nice undercutting granular limestone
bar ring for possible bridge
level about 20 or 30 ft lower
reached where Rhynchotrema
inflatum becomes common.

Triplophyllum gracile

Trinucleus concentricus,
St Bruno Mountain, Co. Chambly, Qué,
J. A. Dresser. 1905. Sta. 9.
This agrees with the heads in brae block
W. of Town No. Margin 2 rows with
pits in front of one another and turned
into a shallow common oblong de-
pression. Two additional rows in
front of middle lobe. A fifth row
begins in front of lateral lobe, and a
sixth row begins at side of test and bites

Cryptolithus bisulcatus, medby Con-
rad, 1838 from Utica II, 1 above
Feb 3, 1838

Staining on glabella. — Shield
ovate strongly compressed; surface
with coarse concentric lines,
obsolete on the posterior side; pos-
terior extremity obliquely truncate
for ½, nearly 3 in Lon. Specific
Pulaski, Pennsylvania County, with
the preceding.

Cryptolithus tessellatus. — Shield with
semi-circular rounded lobe and
four pairs of lateral pits nearly
equidistant, length, width
1 to 1½, Worthington mills,
Oswego County.

5. Olenus scudderi n. sp. Just
through by Salmon River, in
Oswego County.
Conocoryphe spectabilis, Stum
Cryptolithus tessellatus, Green 1838
Asaphus platycephalus, Stokes
Illaenus Crassicauda, Wahlenb 1841
Calymene Blumenbachii, Brong 1838
Ogygia Buchii, Brong 1838
Nileus Armadillo, Dalman 1838
Leptaena sericea, Sow
Orthis striatula, Schlot
Strophomena
Dresser
Strata (Trenton)

1838 Cincinnati.

6. Dolichopsis striatula (Gould)
Lofotnæs, Lofoten, Norway
Dysdera hombergii, Scop.

1839 Cincinnati III Green Bayou
Nopalitos near Texas Lines,

3. Schizura ipsilon (Grote)
Platypus carinata, Say
P. flavomarginata
P. mundulus
Cystiphora cincta,
2. Orchestes fraxini on Ash trees
with Cryptorhynchus lapathi Linnæus

Has Tracheal tubes, see
Wollaston Col. Insects,

1840 Cincinnati IV Pilot Grove,

Cryptorhynchus lapathi Linnæus,
(Trinucleus concentricus Eaton)

Does not accept Trinucleus
thereon.

Schizura ipsilon Grote and
Strata.
411 Arch Street,

p. 57 58. 55,

1 Christ[illegible] Table of Mean Temperature
by Dr C. Meikle, Edin. Trans.
Barometer, the observations grouped & set
down in one line under day. Dis Etn
by Count Pfaff

2) Annual Fall by Rain Gauge, Greenock.

Thunderstorms & use of Lightning Conductors
from Mr Snow Harris, Surface, middle
of 19th Century

2) Jan 1st 1811 Mean Temperature
England. Fahrenheit
36° to 37° Mean Temperature

Charts & Diagrams. John Murray.
Manchester. 1812.

Vol. VII. No 2 Edinburgh 1828.

{Wind direction in Degrees centrando.
Sunshine & Low-fall
Wind velocity.

Bar graph. {31 30 29 28

Rain gauge
Snow gauges

30 ft Chapel Grand pit.
Coarse sand at 15 ft down
Less numerous above + below

coarse

coarse

2 sandy.

coarse

sandy.

Lehman Ridge.
Terminates in high knoll
NW of chapel.
NW of hay dk + forks of road is a hollow
also deep hollow at edge of C. swamp
NW hollow is another high ridge
followed by Indian earthwork.
NW part ridge is another hollow
Workings at S end of Cemetery
Another hollow to high round knoll
NW of that is high ridge with
Calvary monument

65 120 ft SW of Calvary
22 to SE end of Indian ridge
130 between edge of swamp
12 and flat at big wood.
12)1430
120 ft wide would 3 ft high.
Calvary ridge terminates
with round hill NW of
NW of chapel
Remarkable flint + gravel
(coarse) pebbles at edge of Calvary
on this ridge 8 ft above.

West of Calvary ridge is
valley
West of valley is sand ridge.
West is shallow hollow,
Then another ridge at edge of
woods N + S.

~~At SW end of ridge is deep hollow~~
~~ridge to edge of woods.~~
West is deep hollow
West is another ridge
West is another ridge with
wood on E side of fort.

Washed gravel & sand Co.
Building & roadway.

165 ft Top of ridge at edge of Grand Jct

Coarse gravels at Top.
76 ft → Sandy clay with
and stone, with a thin glacial
alternating but the gravels are
Orm sands and sands
57 - 62 Mrn till + some gravel.
52 - 57 very coarse stratified gravel

50 - 52 — this sand.
40 - 50 gravel + till intergrn.

40 ft pit run gravel
22-25 ft. thin clay glacial.
22 ft interval.
0 Canal.

Grand Junction Bridge Co.

Grand Jct at Broadway Sta.
Gravel and silts. Channels
in upper 20-25 ft; some
nearly 2 ft deep. Many
1 ft deep.
Gravel correlated to Cre
Terrace at Grand
455 ft height of Grand Jct.

Ox form grand pit

Redlands Stable. E side.
Very coarse gravel 4-6 ft below
Top soil
Next layer pebbles about 8-9
inches, a few more than 12"

Beals farm grand pit.
Nose of ground by crane,
Fine sands in lenticular bands
Low point of pit.
Purple bed at 19-20 ft in E side
of pit. Purple bed rises to 22½
ft above road on N end of cut
Pit pit rises to 26 ft on
W side of pit. Old meander cut
indicated by sand. Very irregular, only 1-2 ft thick.
65 ft = highest top of hill

Large Huffman hill builder.

Lambert builder.

Cin. Gr. L. [illegible]

Hills & Dales

Next bridge 25 chs 11 ft along A.

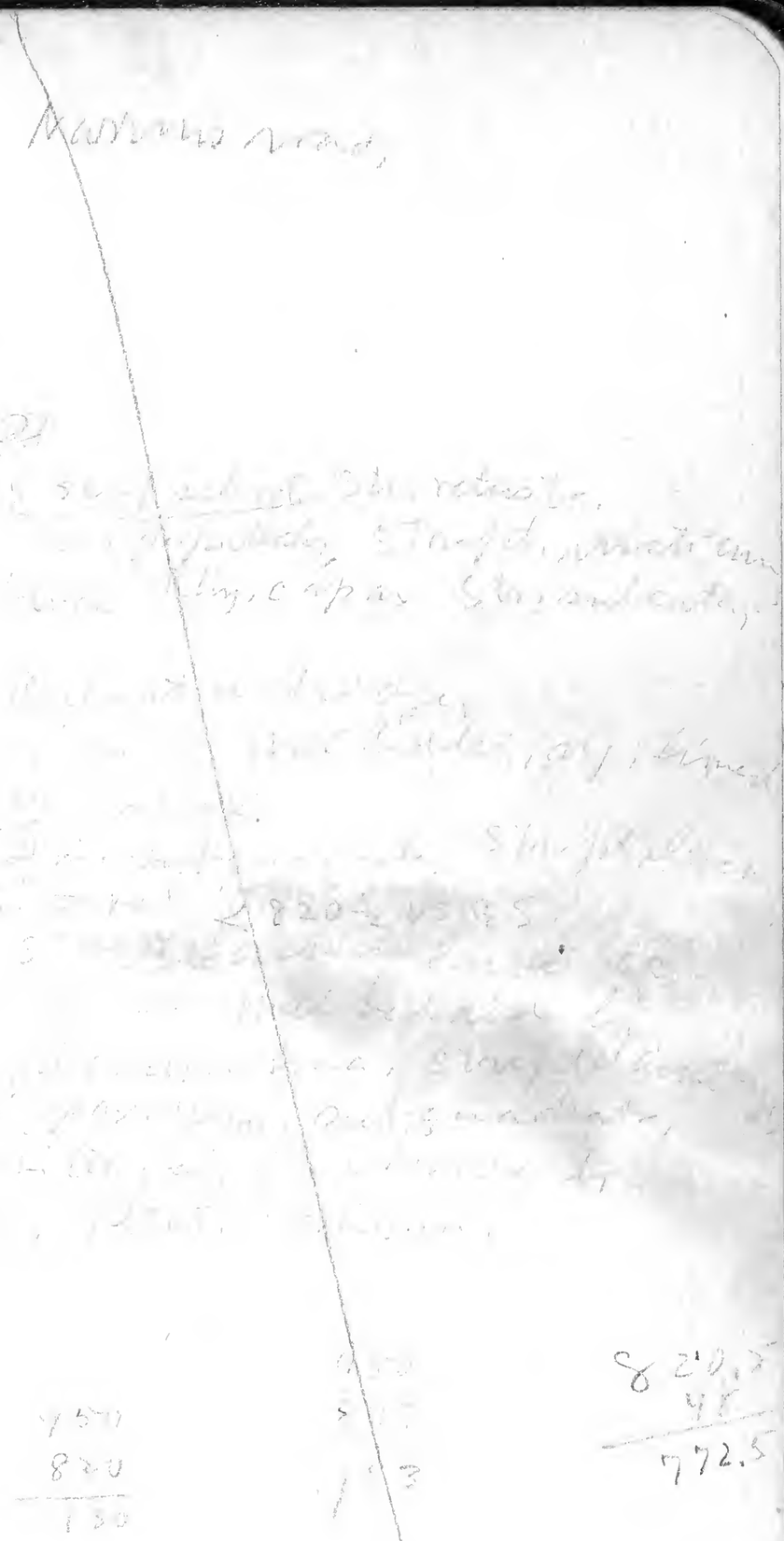
A bridge 855 ft E
13½ ft internal

Perhaps [illegible]
Stone for [illegible]
Steps [illegible]
and cart [illegible]
Diameter [illegible]
Extent [illegible]
[illegible]
[illegible]

Base = 841 ft [illegible]

Probable [illegible]

43°
96.0
7°


8 210.2
40
772.5

Peerless

Solomon Bros

Gordon + Dutch

Hall + Dolan

Blaugas Co

Reed Bleach Co
Reilly + Britton Co

Wladimir
Hamerman
Strand Co.

Electric

Ley.

Ex Work. 1923
Lanyon Work. 1923
and Dean.

Bot

Sa de Rotary Pump.
Leybold from
Köln-Bilein.

Physics. Nonmounted
Mig
S Nürnberg Soc.
Swiss fed. Chem
Banks
ville, O, Practical
Russell
3 Practical
le Cottle O,
le'ano
nubbins, O. Practical

= bp 1/2 sec.

- bp 1/4.

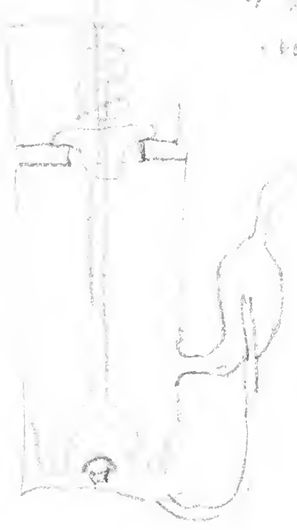
- bp 1/8.

- bp 1/15

- bp 1/30

- Bunsen exp.

What is "R" mark
Its purpose
and [illegible]



Elementary Practical Physics
Adams Nichols

Practical Physics
Millikan

Practical Applied Electricity
Moreton, Reilly & Burnham Co
Chicago.

Dynamic Elec. Machinery
Sheldon & Hausmann
Van Nostrand Co.

Elements of Electricity
Timbie
John Wiley.

Watson Physics. Longer work. Text book. Practical
Hinsdale's Essentials

Duffs Physics.

Bot
Sa de Rotary Pump.
Lenfold Fibre
Rätin-Betrain.

Practical Physics. Numerous
P. M. Fattig
837 S Witenberg Ave,
Springfield. Ohio

Russell S Banks
Marysville, O, Practical

Walter C Russell
Box 83 Practical
Circleville O,

M. M. Williams
Millersburg, O. Practical

Turnbuckle

Paste

Decks.
Cuma wood.
Wax Paper Tabs.
Letters et Circulars
Canvas.

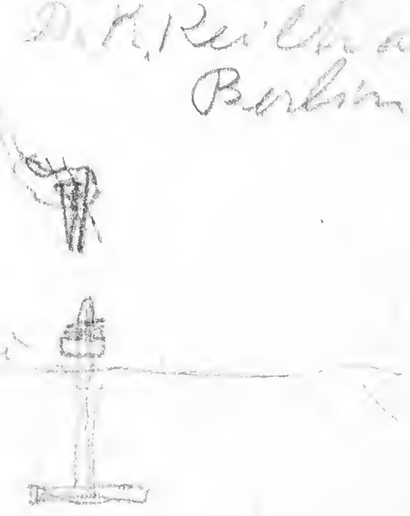
N Y Aquarium Lew.
Dr. C. Haskins
exhibit in Ad. Hall

Wire mesh
School fish.

Berlin Aquarium Restaurant

Columbia
Public school
Journalism.

Berlin Zoological Garden
Central Hotel,
Dr. H. Reichenbach.
Berlin.



Univ of Missouri
Chairs.

Univ of Chicago Stiles
post cards.

Prof. E. J. Garwood. Calcareous Algae
Stratigraphic
Carmelite
Silurian
Birmingham?

Geological Hist. of Lake,
Ed. 13 Arnold & Gardens
Mt Airy Hill Jamaica Pl.

Aquarium Restaurant Berlin

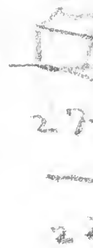
Aquarium Restaurant Berlin

Aquarium Restaurant Berlin

Halcyon Hall W.D. Price.

27½ ft below Wiles' bungalow = top of
bank of rock in stream bed
directly North of bungalow.

Strophanthus a retusus + sub-cata,
Physic Nuts.
Stinging trees, Dimorphanthera,
ocean coast and down streams,
about 22 ft above sea level,
Rock exposures 2 miles downstream
for 8 ft, and the latter are 15 ft
above river level as pre sketch.



Immediately S of mouth of stream
is exposure of sand and gravel
about 25 ft above the present river level
by 3-5 ft of bed

3-5 ft

Sand + gravel
washed free of
clay + good
for cement
construction

gravel
+ sand
25 ft

Westward up stream from mouth
the sand + gravel gradually thins
out and is not seen after 4th

---

working point Striffen rock to S
+ west to Christmas Tree Point
is very broken.
Boulders 2-4 ft in diameter
common near + in surface of
hill

Further south is a dry bottom
standing from base of Bungalow
(Wiles) Eastward + round point.
Bed of stream. N. broke.

Further south and is another
bottom N of rocks + uprooted
tree trunk to pass - several feet
of undergrowth.

Further S is a fence line E of
which are four two rooms
cottages + sheds.
S of fence is ravine + further S
is 2nd ravine, both among
the cottages + neither with so
many,
Further S there are more common
hill ages + more shallow ravines
without exposures.
S of these cottages the Whitewater
bimestone is exposed along the
river edge for about 2 ft above
water level but of course in the
hill. Probably its rise further out is
covered over.

at this point the river turns sharply eastward from a direction due south. Then southward, at this bend and for a small island

22 ft above the ravine up a fairly steep hill a dirt road is crossed by a fence

15½ ft further up rock is exposed in dirt bridge leading S from the mesa about 8 ft higher than trace of gully.

Immediately N of this bridge at dirt bridge a decomposed exposure of White water rock, Eocene? in this area not observed only about 3-5 ft of hill rounded the rocky strata does break

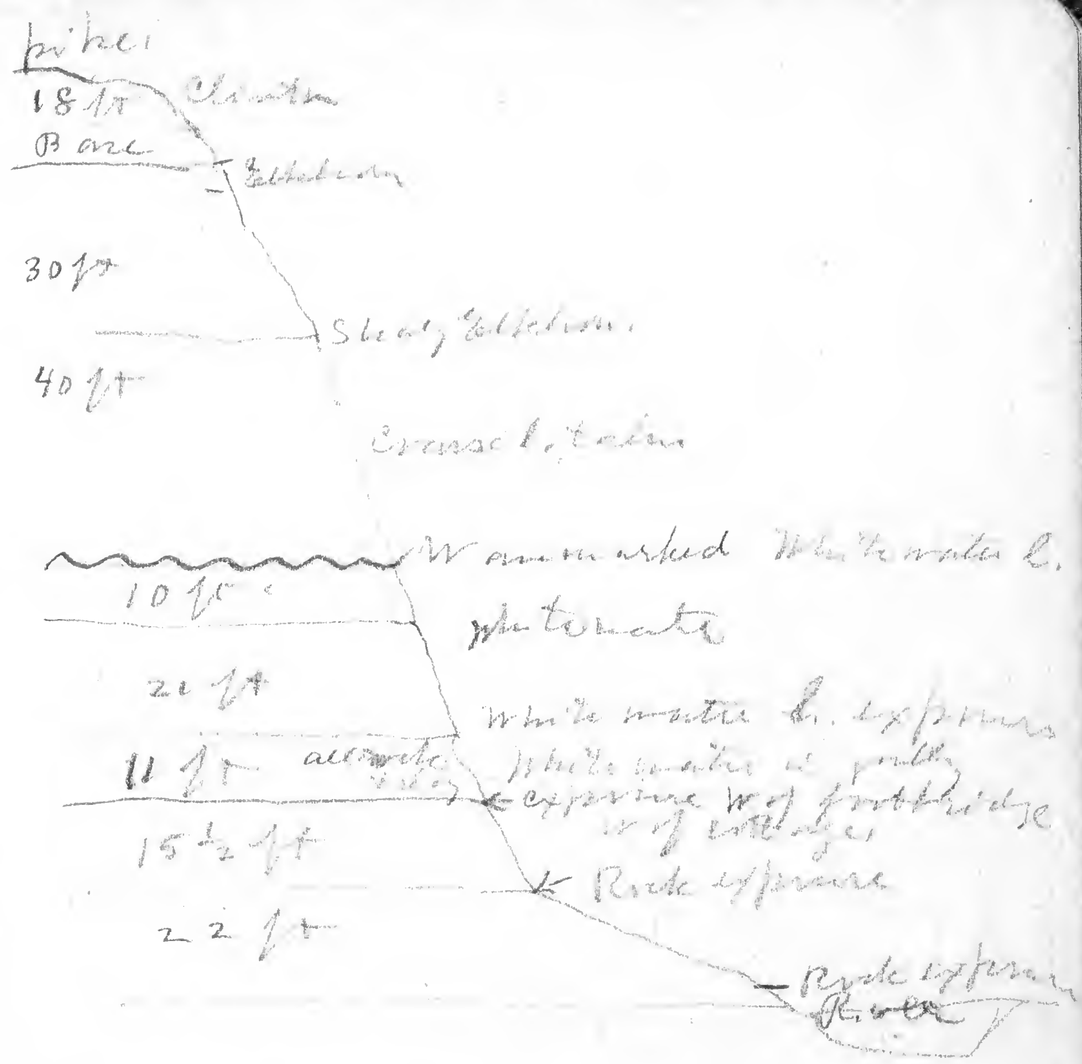
21 ft higher, West of the western fence crossing a ravine or [illegible] followed is another White water e. exposure. The intervening is [illegible] ft and 3-4 in the thickest ft 8-10 inches wide.

10 ft higher in the ravine marked by [illegible] with notice N 30 E. 18 inches from crest to crest + 2½ inches high

40 ft higher is another exposure [illegible] of sandstone [illegible]

The Eocene [illegible] 30 ft with clay [illegible] above upper 5 ft.

Climax, 18 ft [illegible] the land [illegible]



Very little rock here now inside.
At this point the first water a strong head. Immediately N of
Map 16.

South of this ravine about 1/2 mile in bluffs gully NE of
cement crossing.

a shallow gully with a former
fence line runs S of the most
westerly cottage appears 3-5 ft.
of stone clay rubble, fairly
heavy with chalk. Continues as same
build under the concrete till it
very gravelly.

SE of this most south cottage
under the river there is a
gravel pit & behind this there
consists of a very gravelly till.
Pits various trees have been uprooted
gravel & stones have with that
matrix, no [illegible]
mixing. The boulders of the
till & flints clear limits are
flat rocks stones not appear to
have an extended 30 ft. apart
as they be [illegible] substance
exposures.
Gravel line leads from pit.
Wood: elevated - St Ff 15
Letter Nr to [illegible] Wood
N of Dirt track that leads from off S. de
from pit.

Spring from gully 15 east to bend
Lane + stream E in same direction
to river, then S along river to
first big gate. Whitlow to L is
exposed 4 22 ft above river. Above
this level in the gully is limestone
rubble with flints & gravels present.
Path S in another gully with L.
at river and
Finest are evidently from the bluff
along the river for considerable distance,
Farther south is gully N of isolated
cottage, 12 ft. above river is terrace of
L. exposure.
7 ft to [illegible] is nice rock to [illegible] to
exposed for 4 ft
13 ft up rock exp. L. fragments
projecting rock below all in gully
above this level only gravels, little
silica. L. fragments

13 ft
4 ft — limestone
7 ft — limestone rubble
12 ft — gravels

792.82

Path ends at pass N of town N of
Cabin to pass [illegible]
Stream to pass [illegible] to [illegible]
Gravel due E of town at S end of
Chester [illegible] = 12 of pass.

S1 Note No. 78 777

Longitudinal ~~ground~~ bars of ash
11 ft l. long expansion l.
5 ½ ft cracked. (10-15 cracks 1" ea)
16 ½ ft l. tr. joint SE 1 bar S of
yellowed, isolated [illegible] bars,
(20-25 ft of hill covered with)
810
2 ft l. rock.
10 ft [illegible]
Above [illegible]
[illegible]
5' ± ft [illegible]
Above [illegible]
[illegible]
[illegible]
9' ± ft [illegible]
[illegible]
7 ft [illegible]
[illegible]
[illegible]
[

SE of woods at S end of Obsidian
excitement. Mineral material is
common from hard calcite, at
one level in unit + locally up
Newland Clinds + is common but
not in situ.

Further N, in E side of draw
a confusion of pipes + there is
some fence at the edge of woods.
Here I found pebbles gradually E
and then in my Obsidian outcrop,
South of this fence, east of
the confinement ridge, Stromatolite
Conglomerate and Obsidian are
rare above Hard Calcite unit.
Only, Step of Small Tributary
drops 4 ft (S15E) in length of 45 ft
Gravels in drift (clay or less) in
stream 2-5 pr.

N pipeline fence, along W bank of
creek E by confinement ridge to
pond will deposit 20-25 ft thick.
This is first pebble seen E in lower
until Newland only. The Gold
deposit evidently is gold bearing
since the Obsidian stringers up
on both sides of creek evidently
Tributary. Here 8 ft Mineralized zone
is about 8 ft below Obsidian level
because 8 ft thick of Obsidian = 25
ft at the end of the draw but this
does not take into account the
Southward dip of both of these
units.

On E side of creek is pipeline
about 1/2 from
Accordion to Book Level. Here Obsidian
top is 6 ft below and contact
Obsidian + Basal Breccia.

On Newland pipeline at Diagram
Rocks at 947 VS 62, and there
about 3 ft up.

At 921. is top of highest Obsidian is now
8 ft above Obsidian in woods along
confinement south wards
+ 16½ ft = 24½ ft Obsidian here.

6 ft
4 ft 9 inches
2 ft 6 inches
Quite uneven [illegible] Obsidian
6-12 inches [illegible]
12 in dark Basal [illegible]
8+ ft Shaly Unit
1 ft Banded [illegible]

Diagonal + Horizontal

Wiring is

Clifton gorge.

Cedarville. —
5 ft
Dayton 4 ft.
Dayton 5 ft.
Brantford.

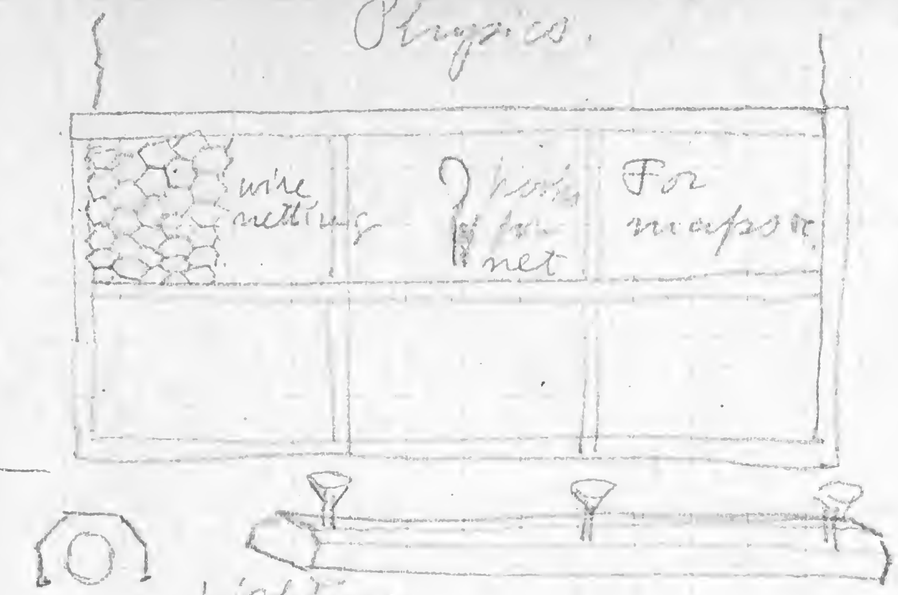
Cascade branch at Yellow Springs.
Cedarville base.
13 ft. Springfield dam to top of flat
part back of the Cascade.
2 ft. extra thin bedded in slope
of cascade.
8 ft. next thin. about 8 ft.
29 ft. estimated Niagara shale,
Dayton estimated here.

Same gravelly near glacial stream
S 7 E.

W. Cedarville.
No glaciation on base of Niagara
Top of gravels = 2 ft above R R track.
C. 12 ft. Ridley fragments.
megastoma &c.
C 7 ft) stained. Fragile.
Edge of gravels at Wolf's at mouth of gravel
ing on base
B 3 ft 2 in. Thinner bedded. Weathering off into
A 7½ ft very massive crinoidal.
Pond 11 ft water.

C
C
C
C
C
C
C
C
C
C
C
C
C
C
B
A
A

Physics.



Lighting.

Imperial Blackboard Maps.
(Antelope) N Am.
A. J. Nystrom & Co.
Publishers Chicago.

220 Volt connecting needed,

1 st copied page 40, 41, 44, 55, 62, 64, 72

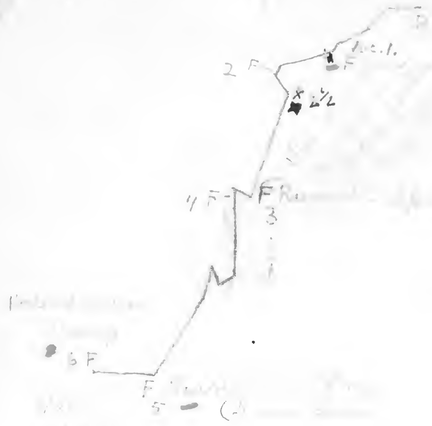
Lacking Vol I all
II — 3
III — 2
VII — 2 Nothing ecological
VI all of Birds
X and all above.

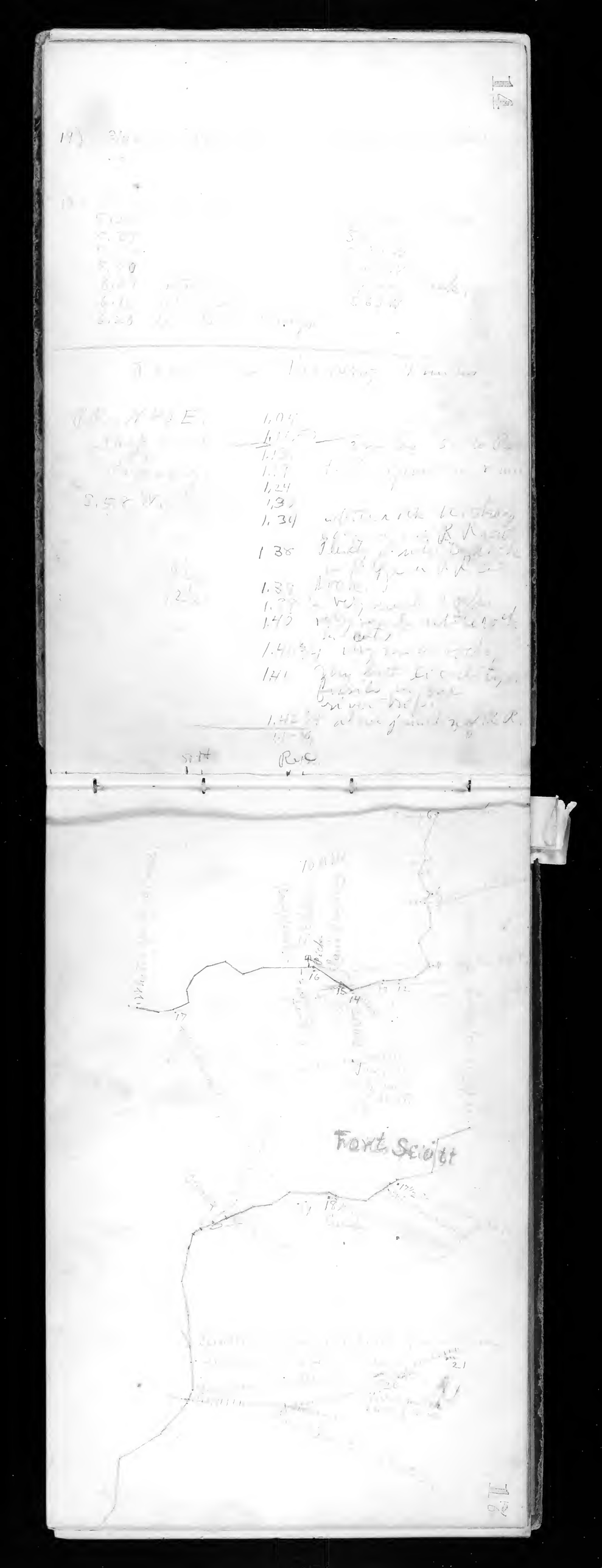
Mead — 175 pieces.

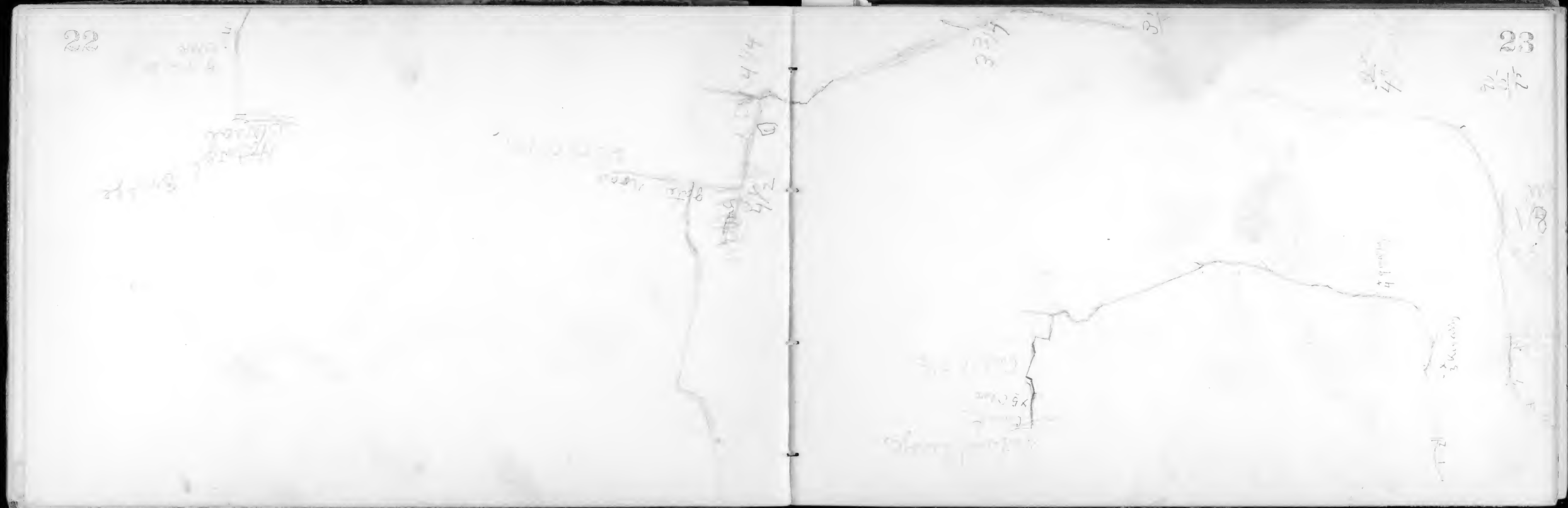
U. S. GEOLOGICAL SURVEY

TRAVERSE BOOK

9-904


2 F
4 F
F
3
6 F
F
5

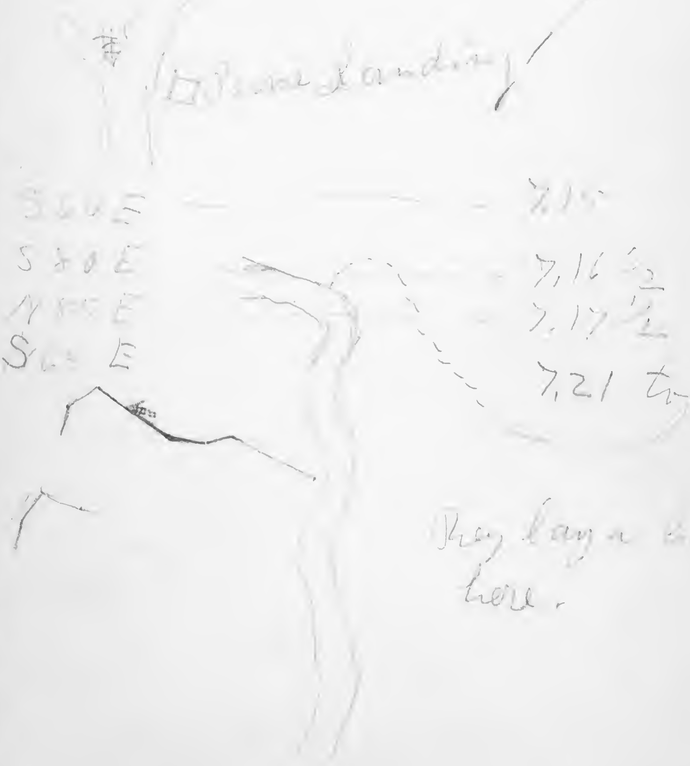

Fort Scott




Brush Creek
Elevation
Bridge


B
40 miles.

N 10 E — 7,11 end
N 30 E 7,12 ½
at entrance road this one 7,11½



Stay here.

N 10 W start 7,25 end 7,25½

S 10 W start 7,30 ½ end 7,32
North start 7,36½ end 7,39

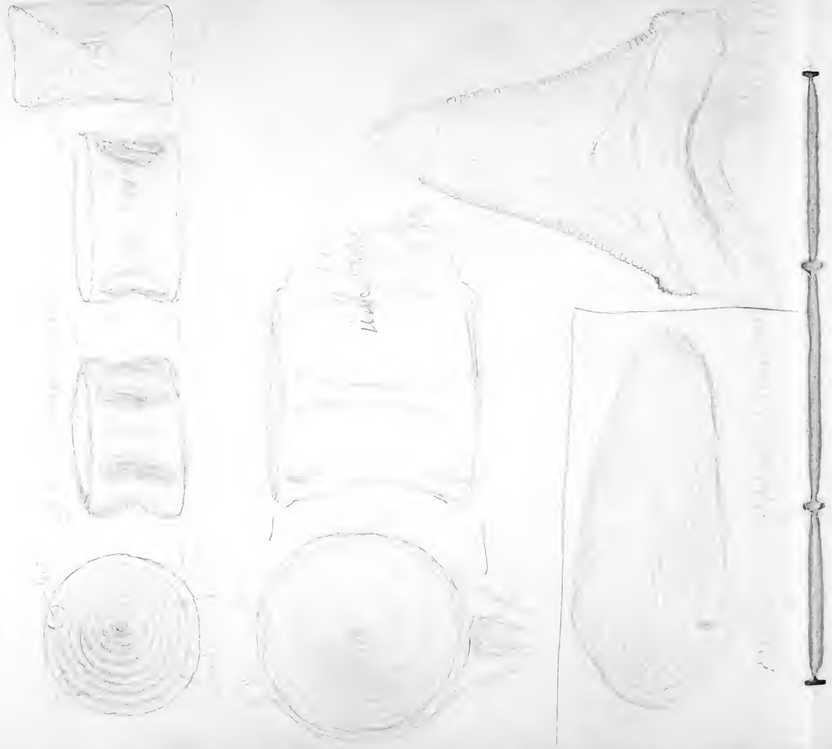
S 45 E start 7,42½ end 7,44

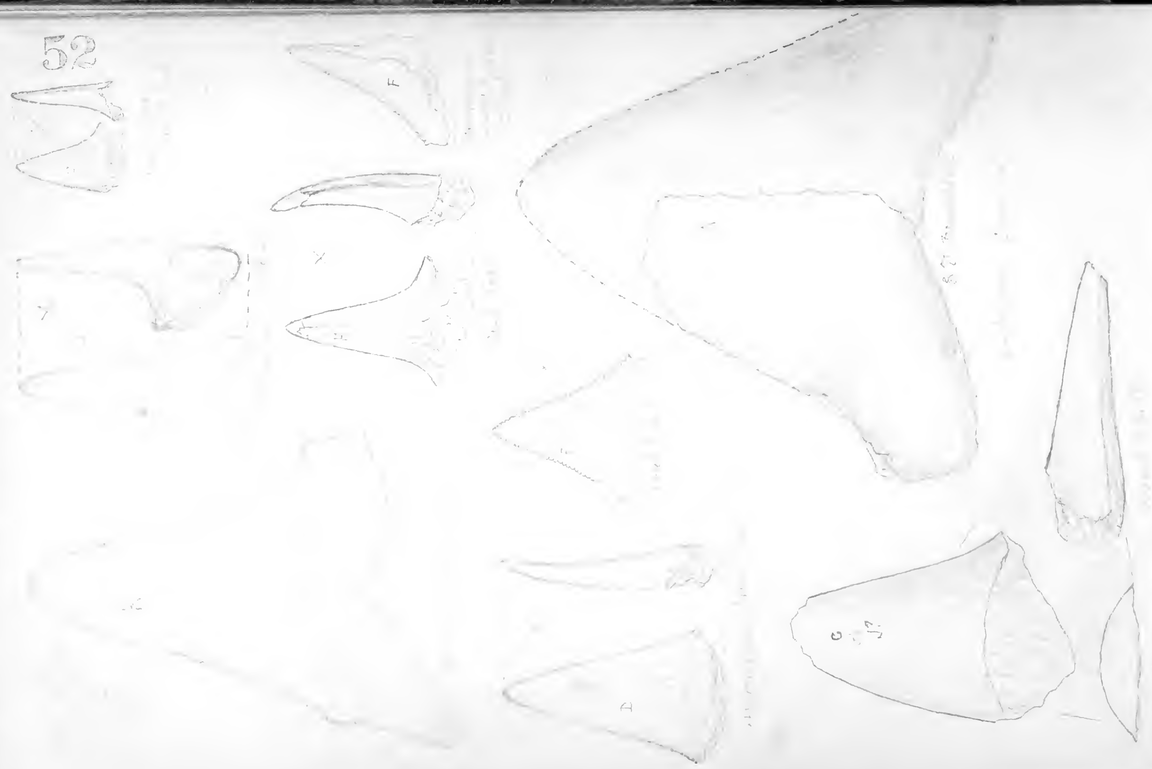
N 45 E after long curve 7,45
end of this curve 7,46
N 10 E 7,49½
after big curve
S 20 E 7,52
At stop sign on W curve to
rt of Site, end of chain 7,52½

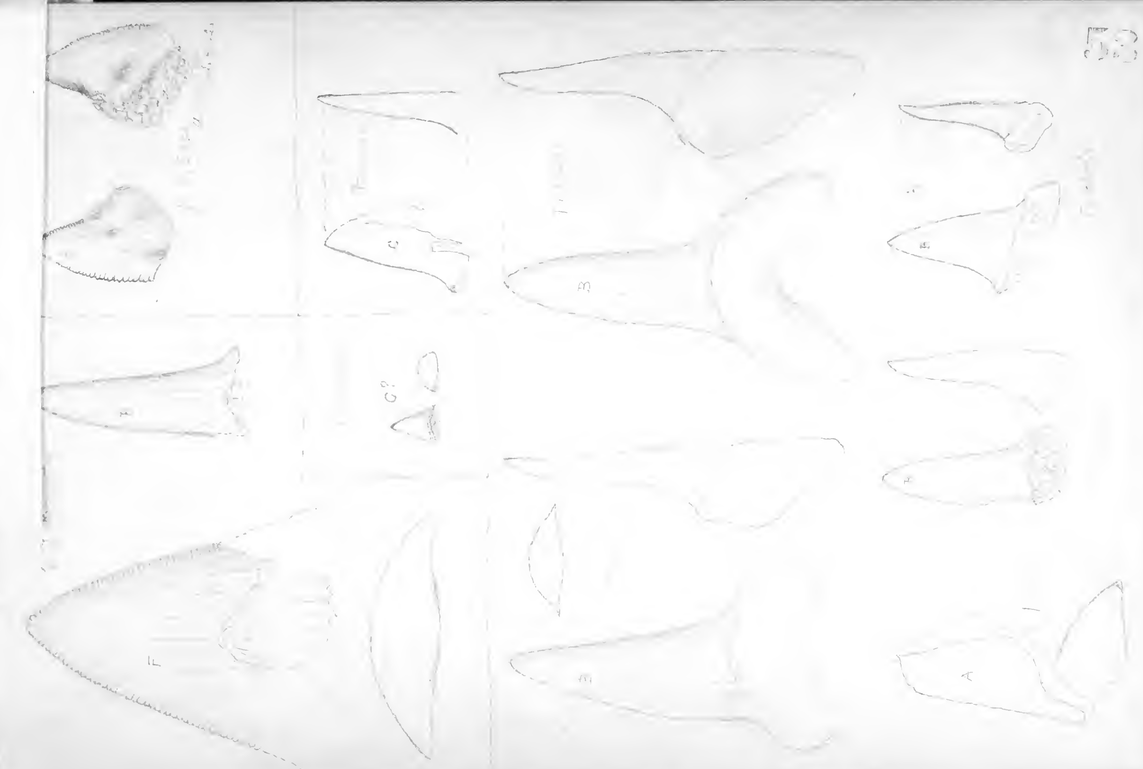
S 20 E end 7.55

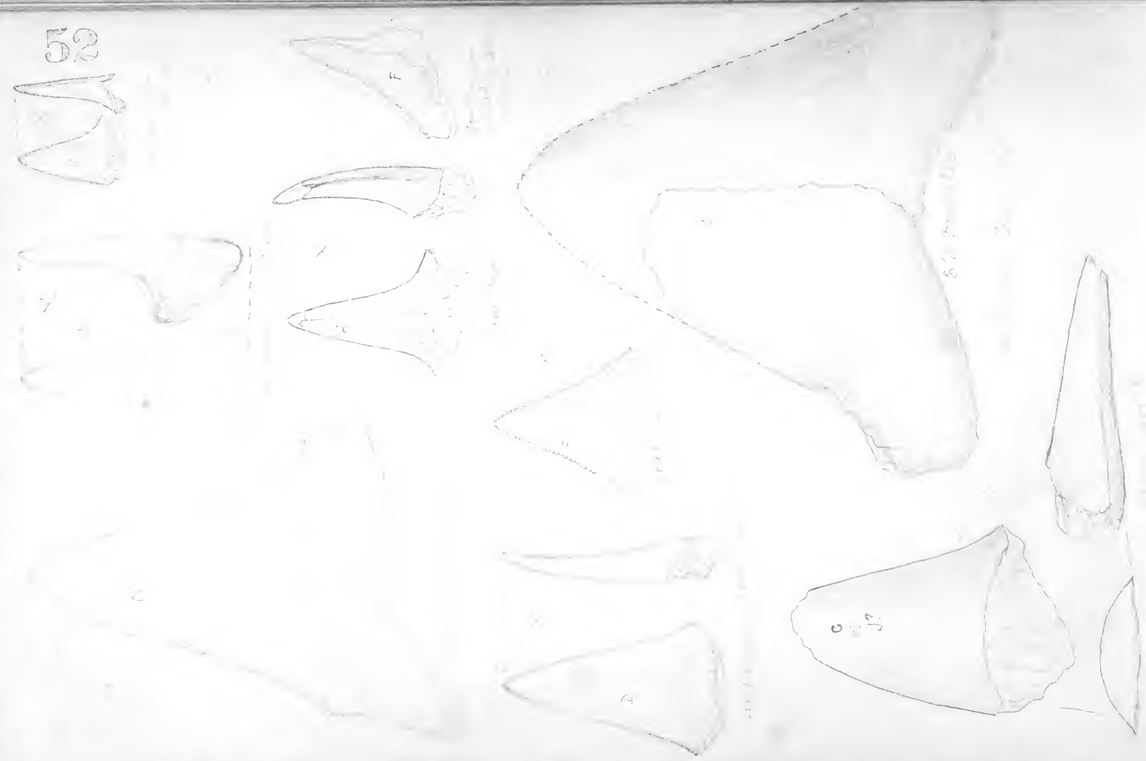
start N 70 E at 7.57 end 7.58
at junction with Appalachian
Cut off Sanding.

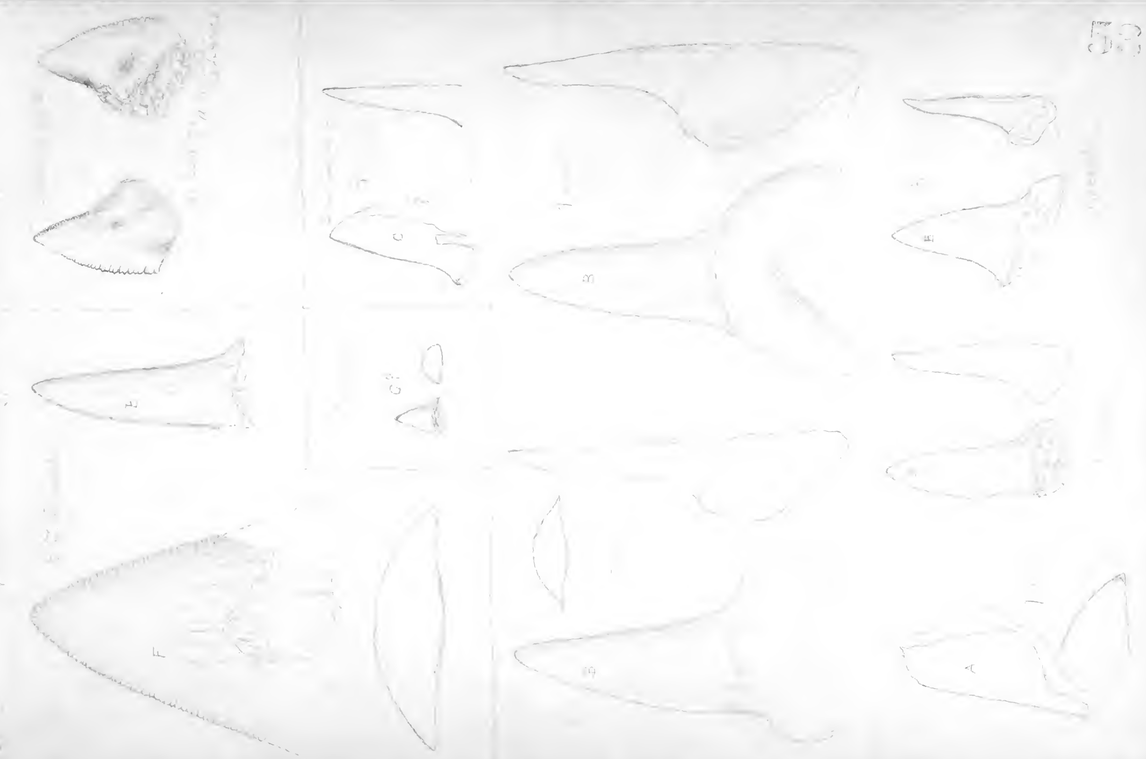
6.02 N 50 E

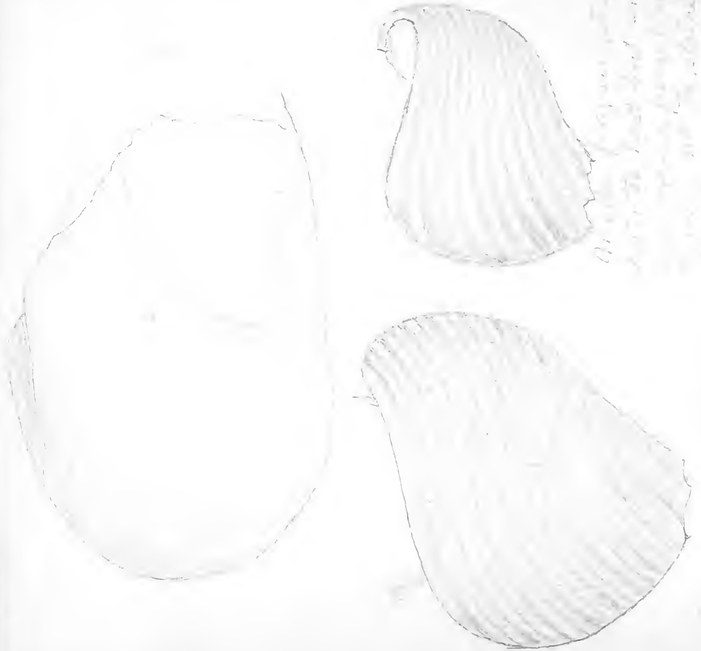


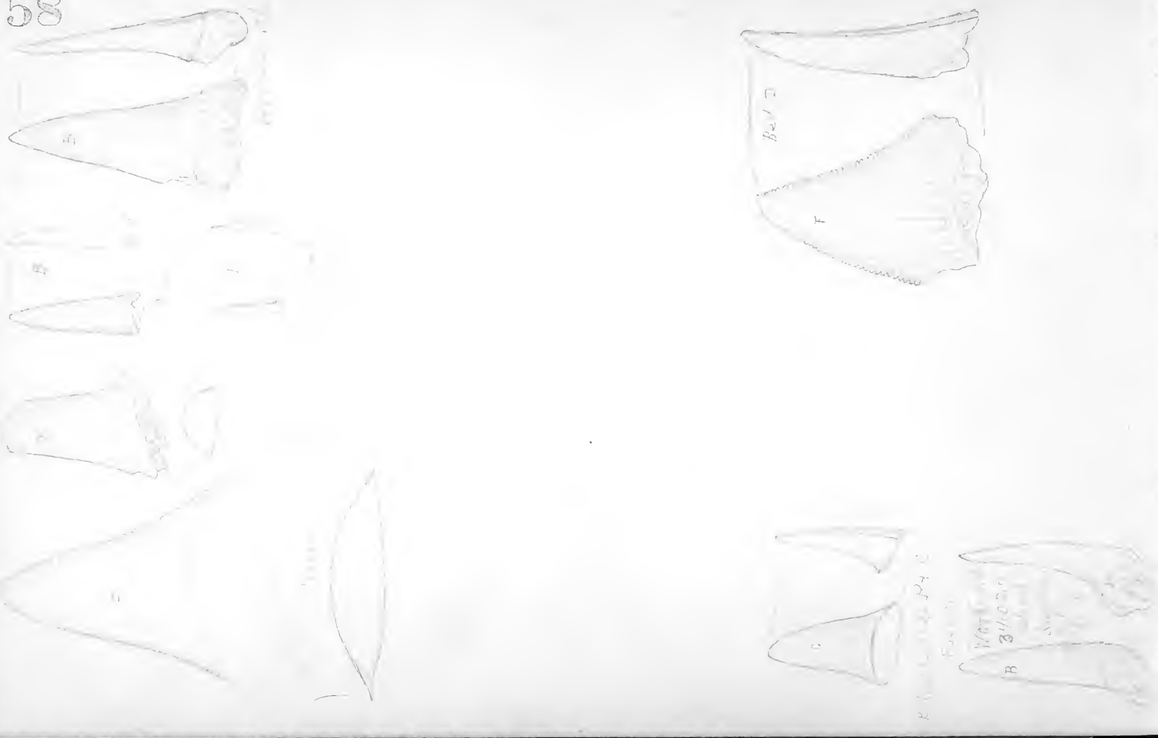


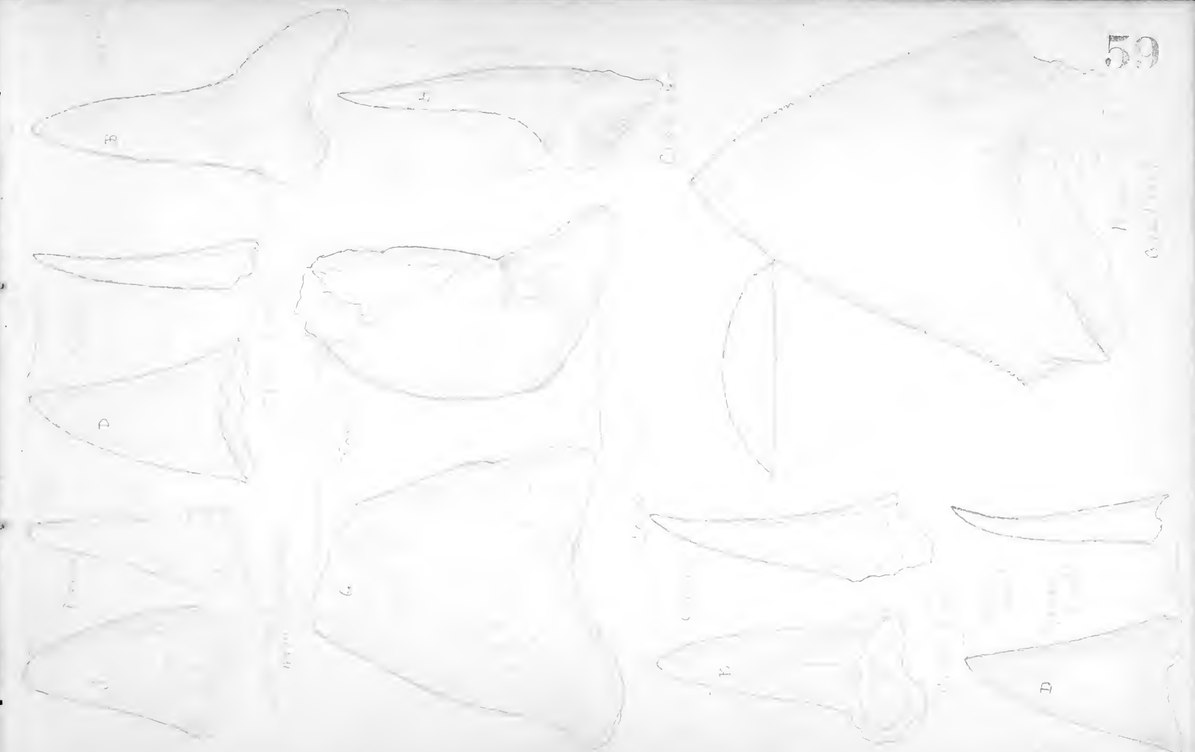


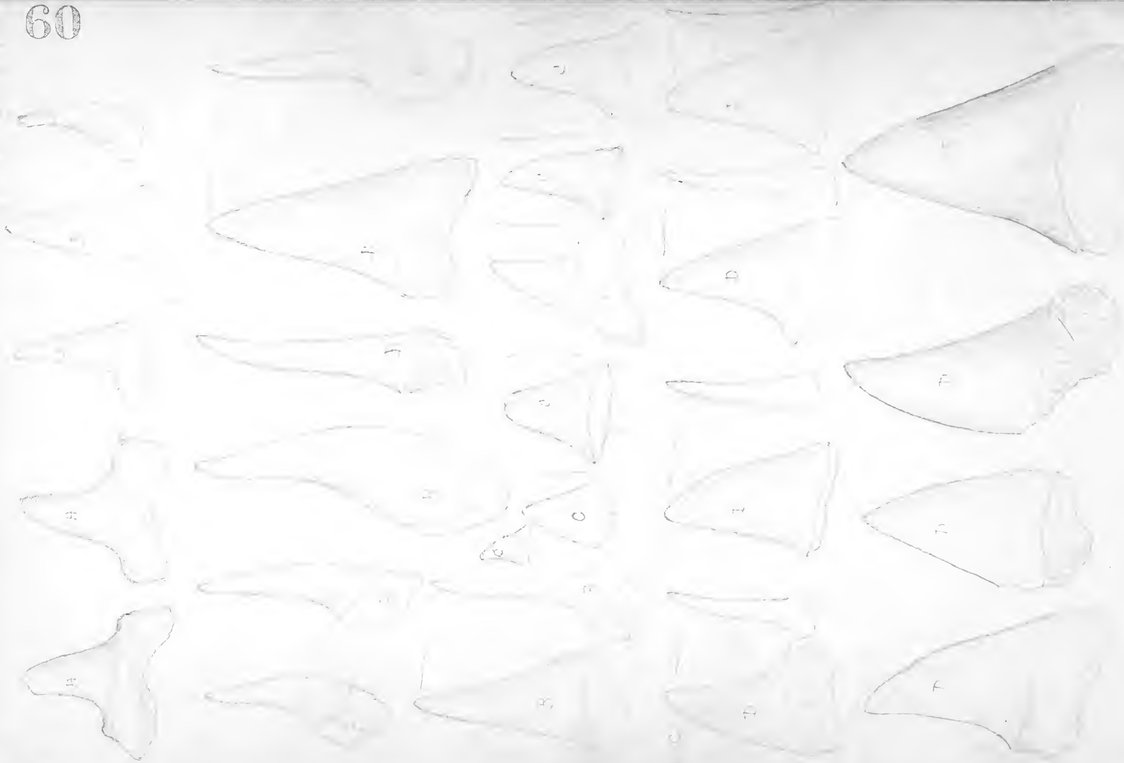


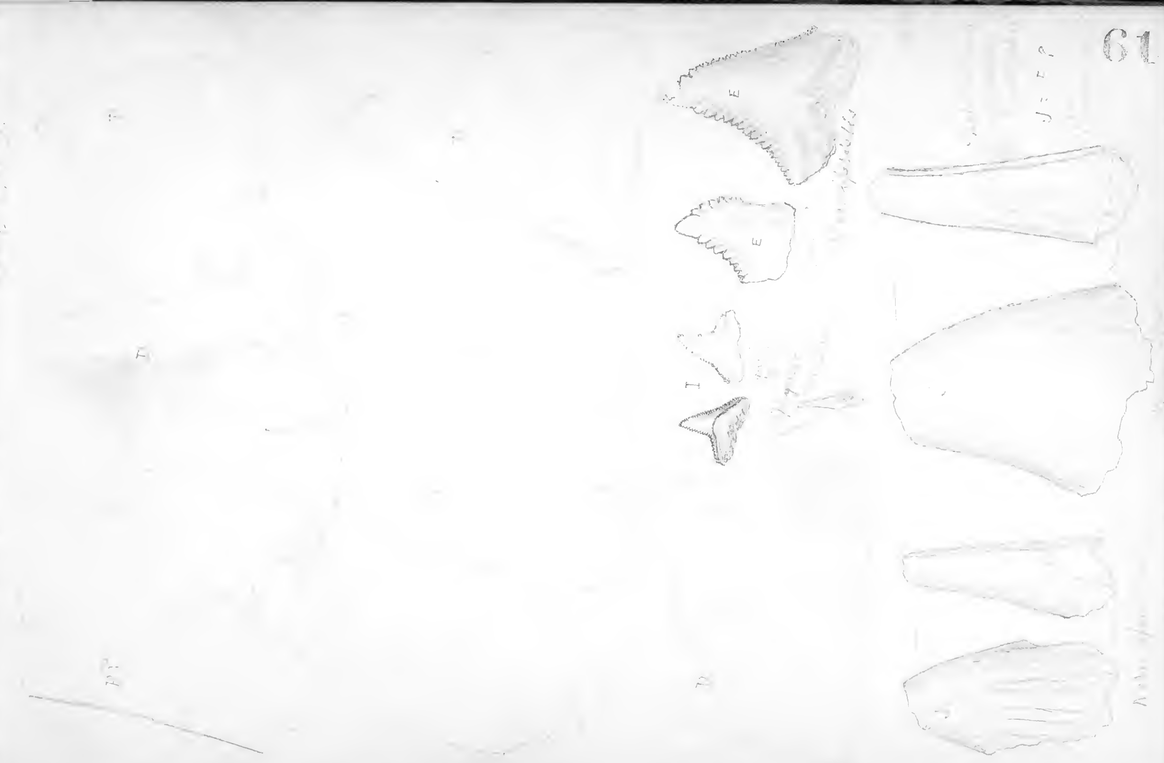


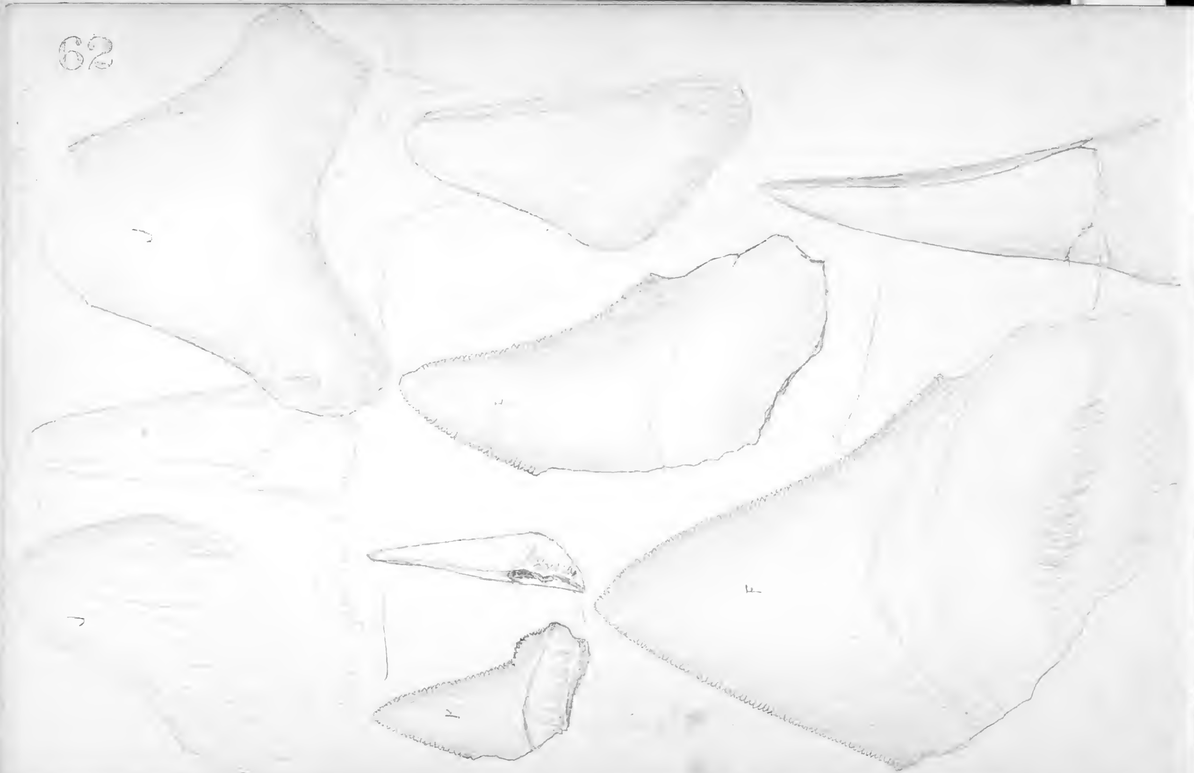


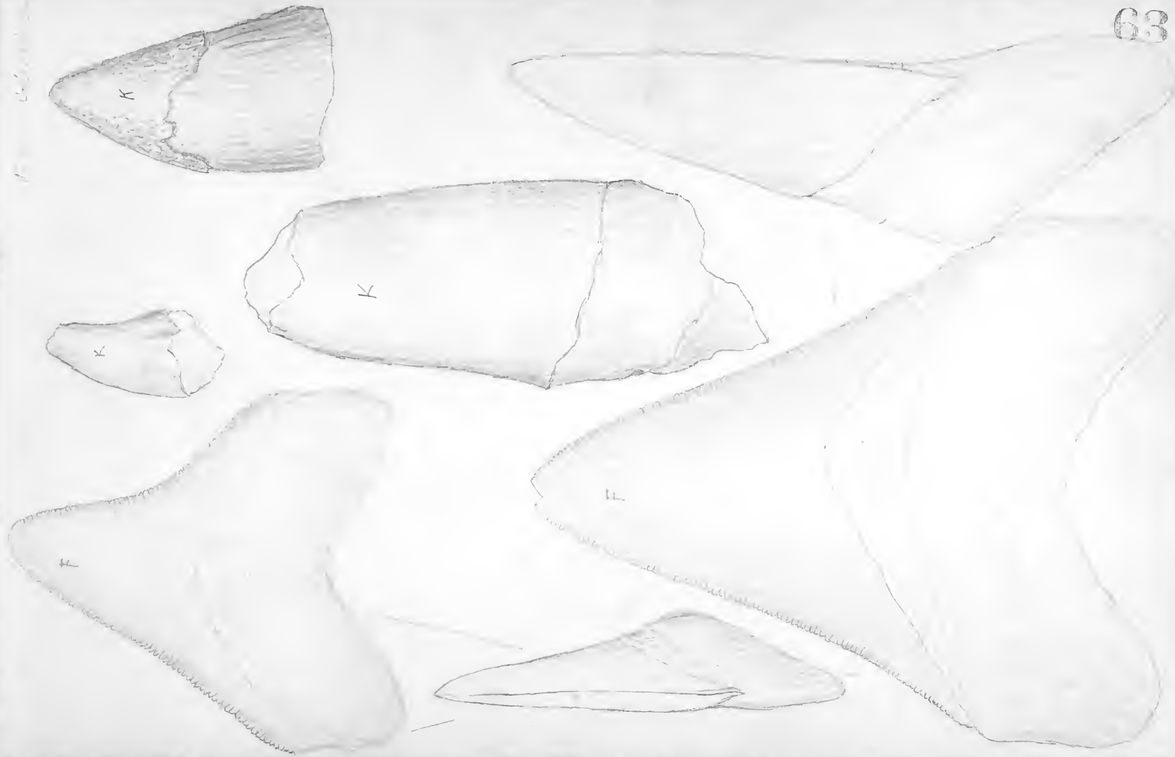


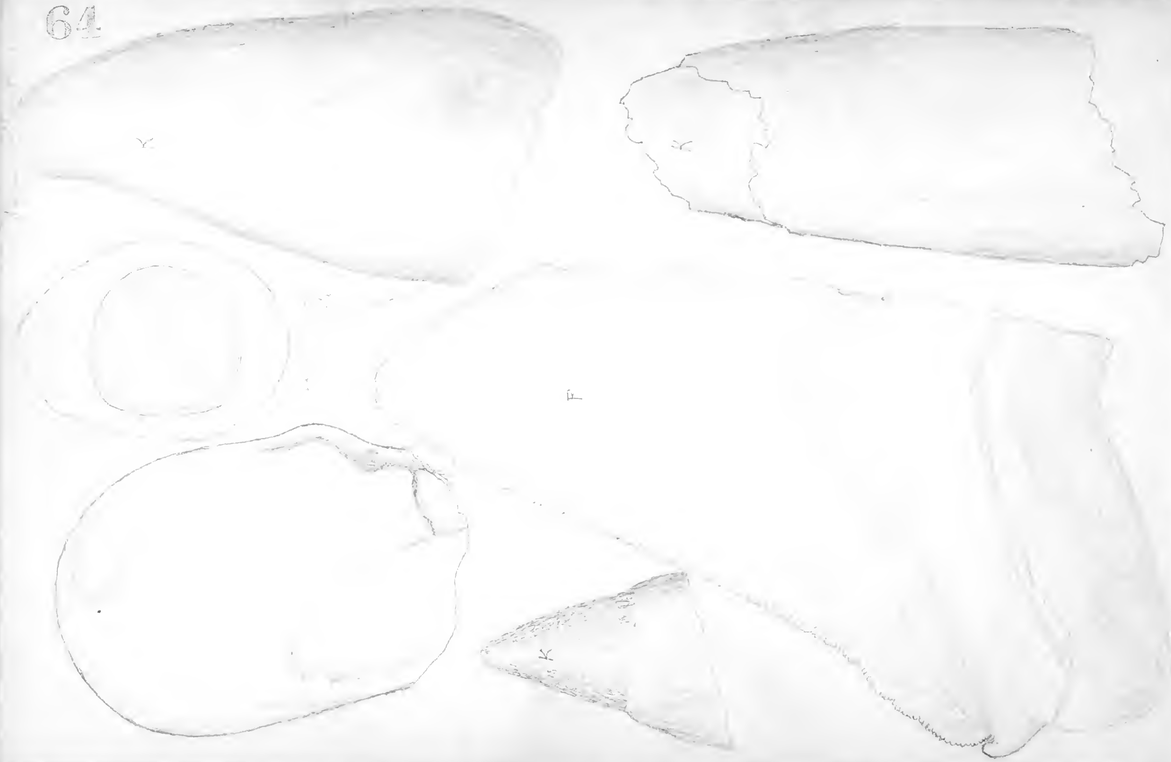


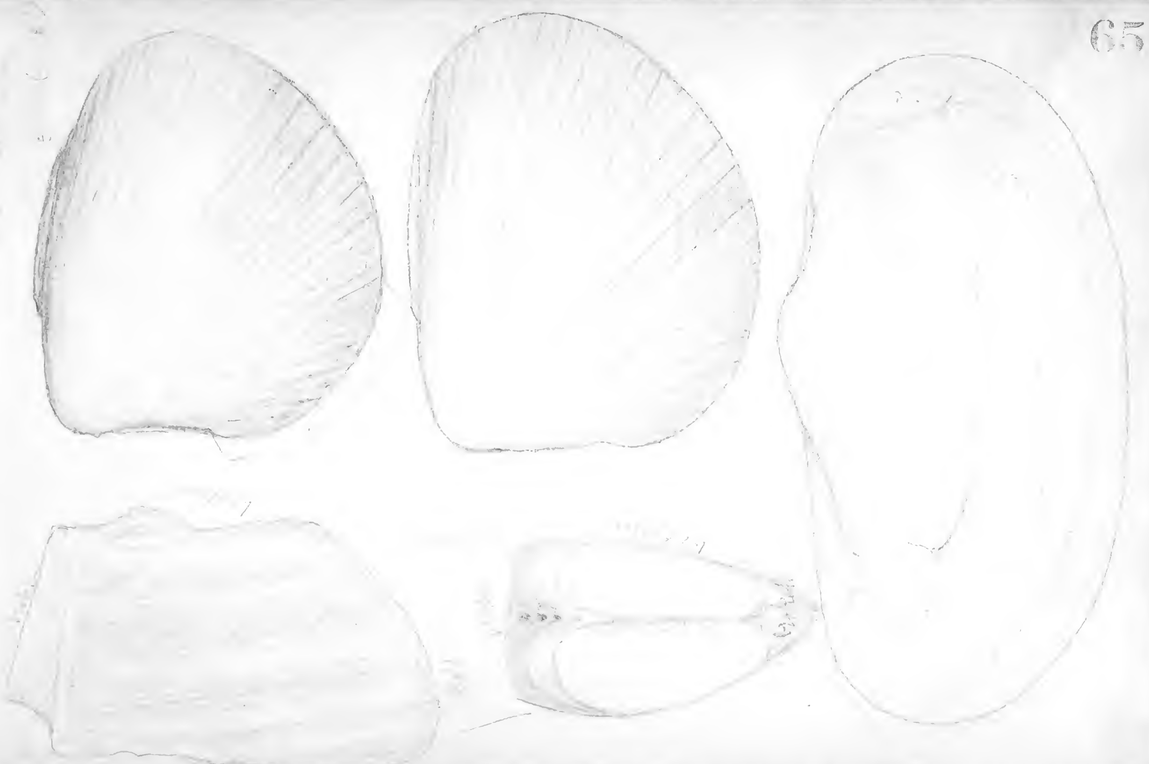


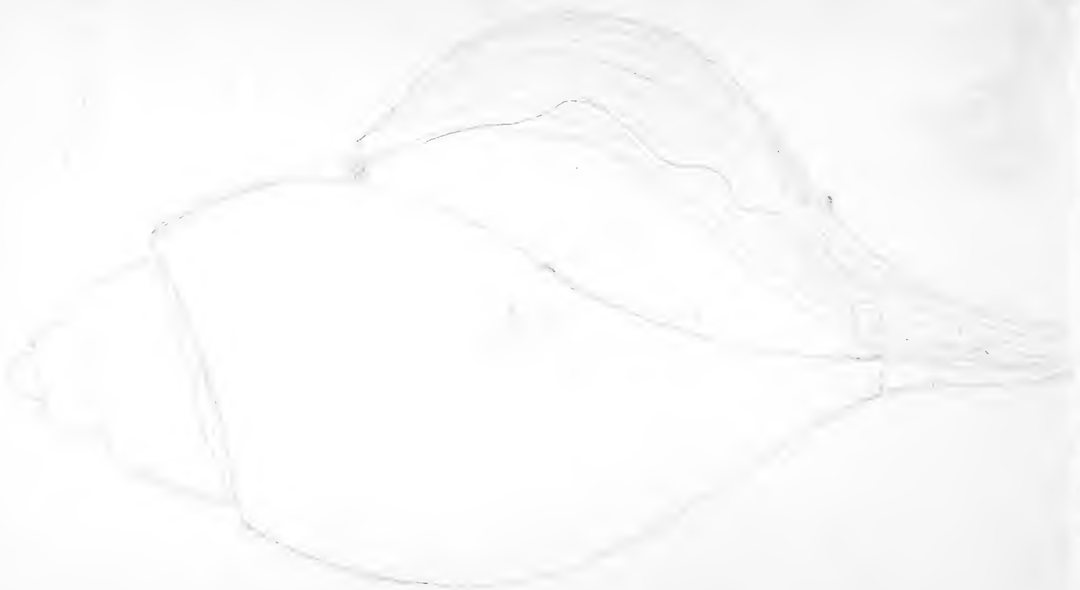


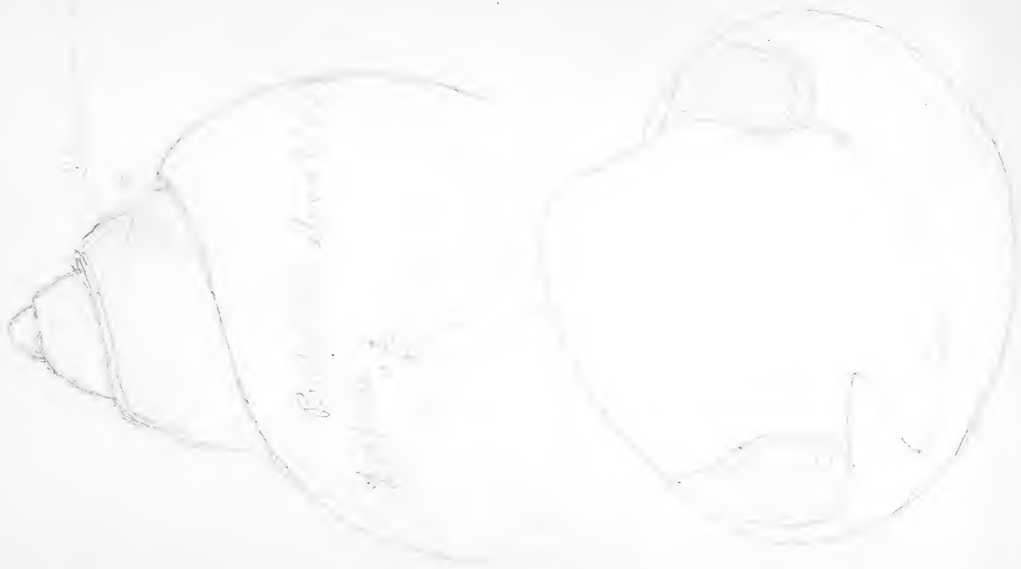


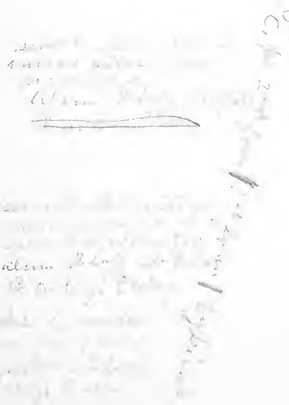












1 Pleurotoma albina Perry, [illegible] Pleurotoma
acute Sum Bluff [illegible] Fig 3, IV. Fig a, (Mitra, Nodicostata Perry)
× Chipola at Alum Bluff [illegible]
× 1 spec. Alum Bluff Perry. also B. [illegible]

Mitra [illegible] Conrad. (now Cancilla Gouldiana)
× 1 spec Alum Bluff Perry. also B. modesta.

Pleurotoma ——— same as in Duplin
1 spec Alum Bluff Perry Fig 3.

Terebra ———
1 spec Alum Bluff, Perry.
Chipola at Alum Bluff, Pennsylvania Collection 1 sp.

2 Pleurotoma ——— [illegible] same as in Duplin
1 spec Alum Bluff Perry. Same as [illegible]
Magnolia Bluff 1 spec. Gastropoda Fossil. Fig 7 b.
Chipola at Alum Bluff, Pennsylvania Coll. 1 sp.

Cancilla lunata. (Mitra [illegible])
Chipola [illegible] Alum Bluff, [illegible]
Also found in [illegible]
Alum Bluff [illegible] 1 spec.

Cf. Daphnella [illegible]
[illegible]
1 spec [illegible] Alum Bluff, Chipola [illegible]

2 Pleurotoma [illegible]
Magnolia Bluff, Fla.

Murex ———
1 spec Alum Bluff Perry.

Triton — see Triton Tuberosum Mail. [illegible]
(Lampusia tuberosa Mail.) [illegible]

Magnolia Bluff, Chipola

Farm [illegible]

N S 25 W

The bridge

Continue on Wade at Jetty
and on both sides to bridge 15 feet from [illegible]
[illegible] Orbit [illegible] [illegible] & [illegible]
brown rocks in a [illegible] [illegible] & [illegible]

S 40 E 250 yds

[illegible] course [illegible]
2 [illegible] [illegible] [illegible] [illegible] [illegible]

S [illegible] 1000 yds

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

S 55 E The [illegible] [illegible] [illegible] at 1st 1100 yds
3 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
and [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
river. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
side. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
down stream.

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
4 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

South [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
5 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

S 30 W [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

South 600

S 15 W at end [illegible] [illegible] [illegible] [illegible] [illegible] 300
6 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

S 5 E At end of this is Wagon [illegible] 250
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

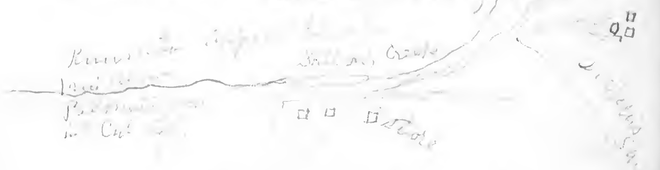
Section

30 feet reddish clayey sand.
15 feet clay [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
35 feet [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[

N 80 W		50	240
N 50 W		50	190
N 40 W		70	
		80	
		80	
N 10 W		80	
West		50	
		80	
		35	
N 60 W		40	
		85	
		63	300
N 70 W	Mc Bean's Creek flowing N.	60	
N 45° W		100	
N 40° W		45	
N 30° W		50	
N 10° W		50	
N 5° W		50	
N 60° W	Forks of rel	33	
N 80° W		72	
N 20° W		10	
W		42	
S 80° W		50	
N 85° W		75	
N 65 W		35	
N 75 W		60	
N 80 W		55	
N 80 W		95	
N 75 W		40	210
West	To Bai	60	140
S 70 W			
		35	
		25	121
		190	
N 20		20	

N 80 W		44	214
S 80 W	To road Manemma road 21 miles	35	169
	At junction 7 miles S of Calhoun Co line		
	1¼ To Bailey Ferry		
S 80° W		20	100
S 65° W	To John McClung's East fence	135	
W	To Brow of hill	65	314
N 75° W	Bottom of hill below plain	75	363
S 60° W		180	870
S 40° W	River Bank	40	194
S 80° W		63	304
S 10° W	Bailey's Ferry + River	16	77

N 20 W. Bx mts, town, 1 70 = 170
road, ridge, take right road at fork
N 8 W 10 20 = 320
N 10 W 100
N 25 W. 160
road leads to right.
50
N 20 W 400
N 35 W 80
N 45 W 240
N 80 W 220
S 70 W 260



N 50 W 200
to Lone
N 10 W 200
to Dickens Ranch
N 50 W 400
N 50 W 400
N 60 W 150
N 60 W 100
N 30 W 250

Solen ensis.
Mya arenaria
Mya truncata
Mactra solidissima
Petricola pholadiformis
Tellina tenera
Lucina dentata
Astarte castanea
Cyprina islandica
Cytherea convexa?
Venus mercenaria
Astarte Mortoni
Cardita borealis
Arca pexata
Arca transversa
Mytilus edulis
Pecten pellucidus
Modiola modiolus
Modiola plicatula
Pecten irradians
Ostrea Virginiana
Ostrea borealis
Anomia electrica

Tectura testudinalis
Tectura alveus
Crepidula fornicata
Crepidula convexa

Litorina rudis
Litorina littorea
Litorina palliata
Lunatia heros
Lunatia triseriata
Neverita duplicata
Columbella rustica
Purpura lapillus
Nassa obsoleta
Nassa trivittata
Buccinum cinereum
Busycon canaliculatum
Busycon carica
Ranella caudata
Melampus bidentatus
Helix albolabris

Platycarcinus irroratus
Lupa dicantha
Libinia canaliculata
Eulimastoma canaliculata
Pagurus pollicaris
Pagurus longicarpus
Eupagurus Americanus
Limulus polyphemus
Orchestia longicornis
Orchestia gryllus
Idotea cæca

Physalia
Aretinusa
Lagia
rosacea
Aurelia
flavidula

Serpula
vermicularis
Amathia
Balanus
Balanus
tintinnabulum
Balanus
fistulosus
Balanus
rugosus?

Buccinum undatum
Spirula fragilis
Spiroris
Solecurtus gibbus
Pholas truncata
Omnastrephes sagittatus
Crepidula plana
Teredo Norvagica?