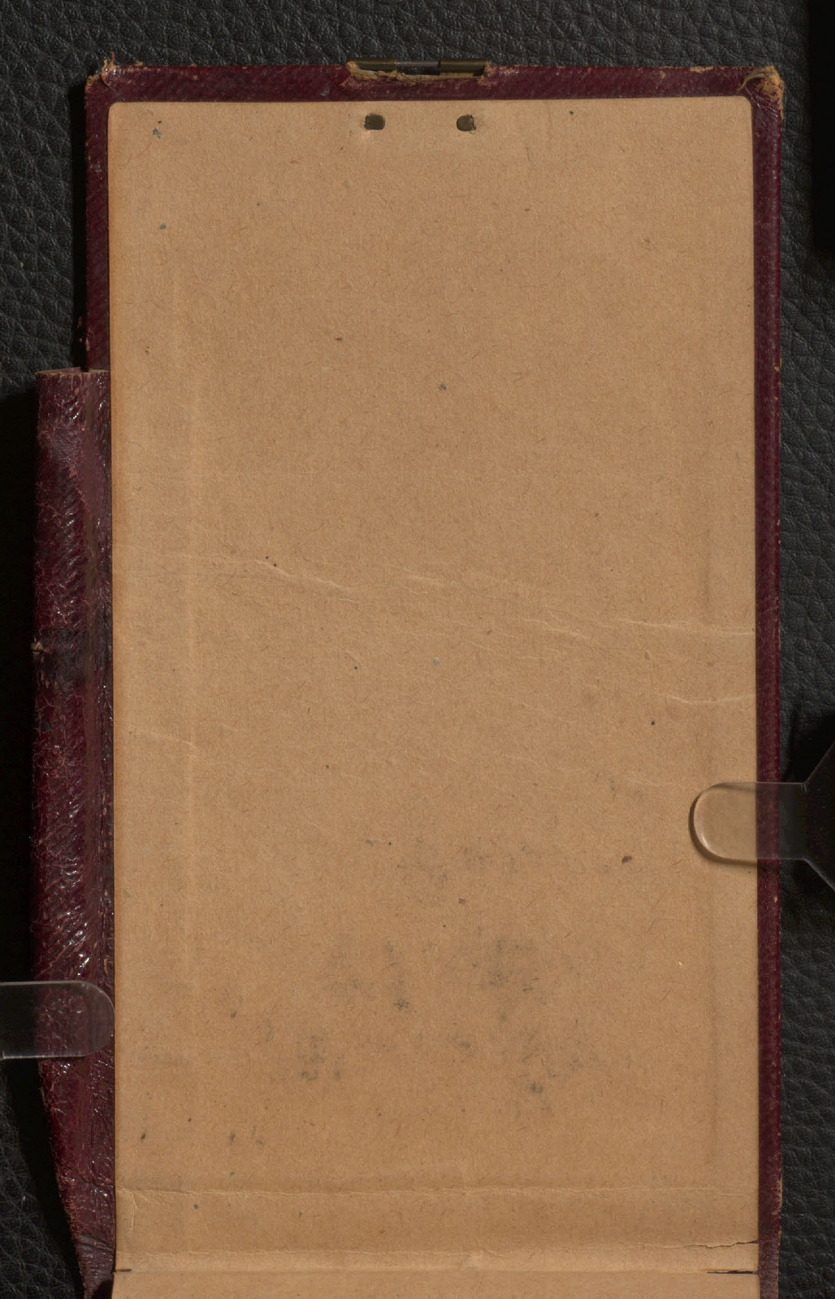


1876  
New Bedford  
Gossins & Co

Melbourne  
New York  
Melbourne



Francis Scott  
Clyton

Genl  
ex B

Richardson's Note of 1858

Star Section material

None see -

Cross of Mts  
R. Below  
falls 165 ft  
G. anemone

---

Below Mts  
toward Sand  
ford - Sun  
day terrace  
a few feet high  
about terrace  
ground &

Strong clay & sh  
d rock 50 sf

---

Chepe & family  
sh & chert sh

\$38.50

85  
6  

---

570  
21  

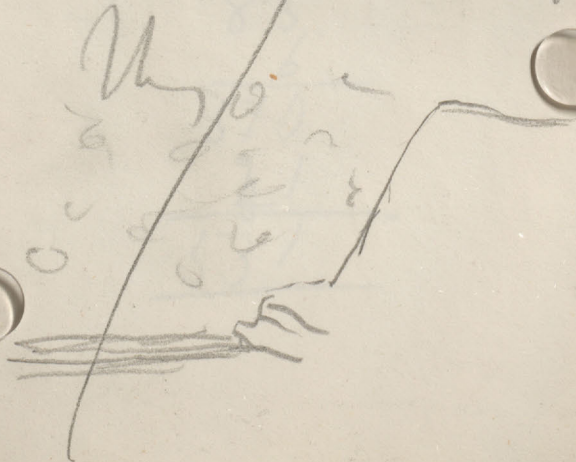
---

531  

---

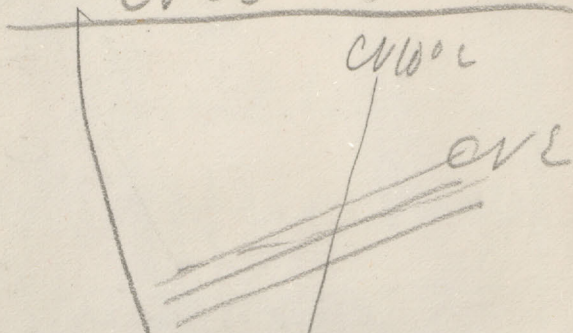


Long Beach  
Beach  
Beach cly  
very an...  
surf & against  
~~next to the edge~~

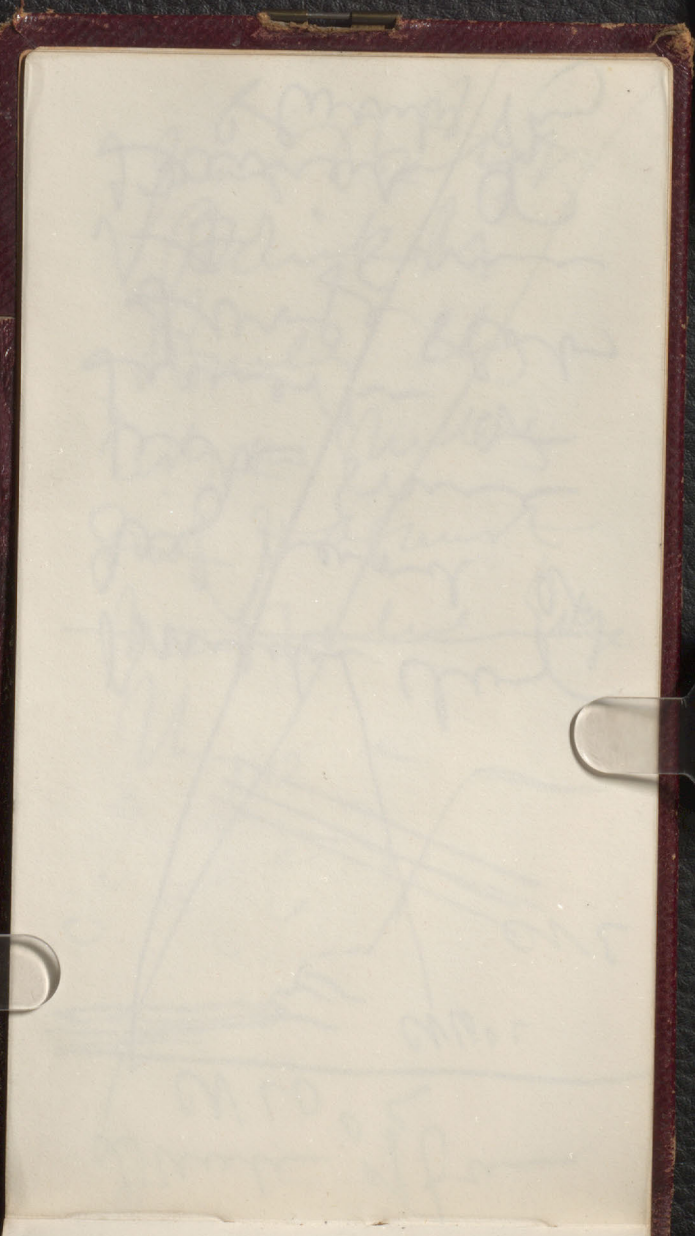




Dunk of fun  
CV1002



Amel. clay  
by hand &  
into some  
Lumber &  
large slabs  
of Dr. some  
Lumber &  
Lumber &



~~Handwritten notes, possibly including the word "Handwritten" at the top.~~

~~Handwritten notes, possibly including the word "Handwritten" at the top.~~

~~Handwritten notes, possibly including the word "Handwritten" at the top.~~

200

CVR

3k

Feb 1872

8th CVR 200

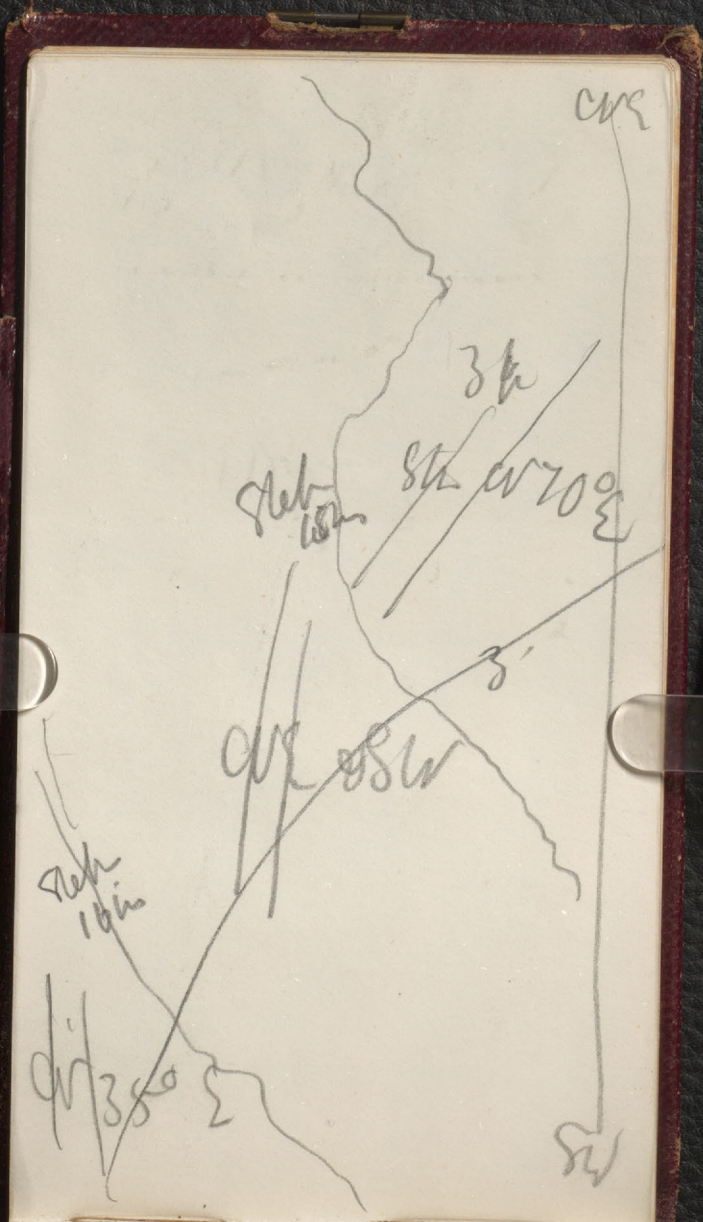
3'

CVR 85W

Feb 1872

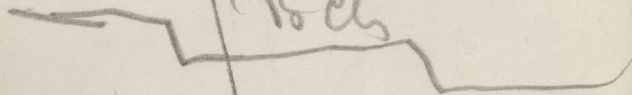
CVR 350

MS

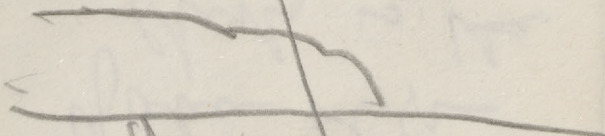


The above  
included by  
buildings  
of Green Bay

~~thus / same  
Boch~~



~~Steps are heavily  
above this~~



~~on  
Woodrow  
Graham~~

At the same time  
John or  
Clark is the

N 700 E Street  
as of a name

1885

1886

1887

1888

1889

1890

1891

1892

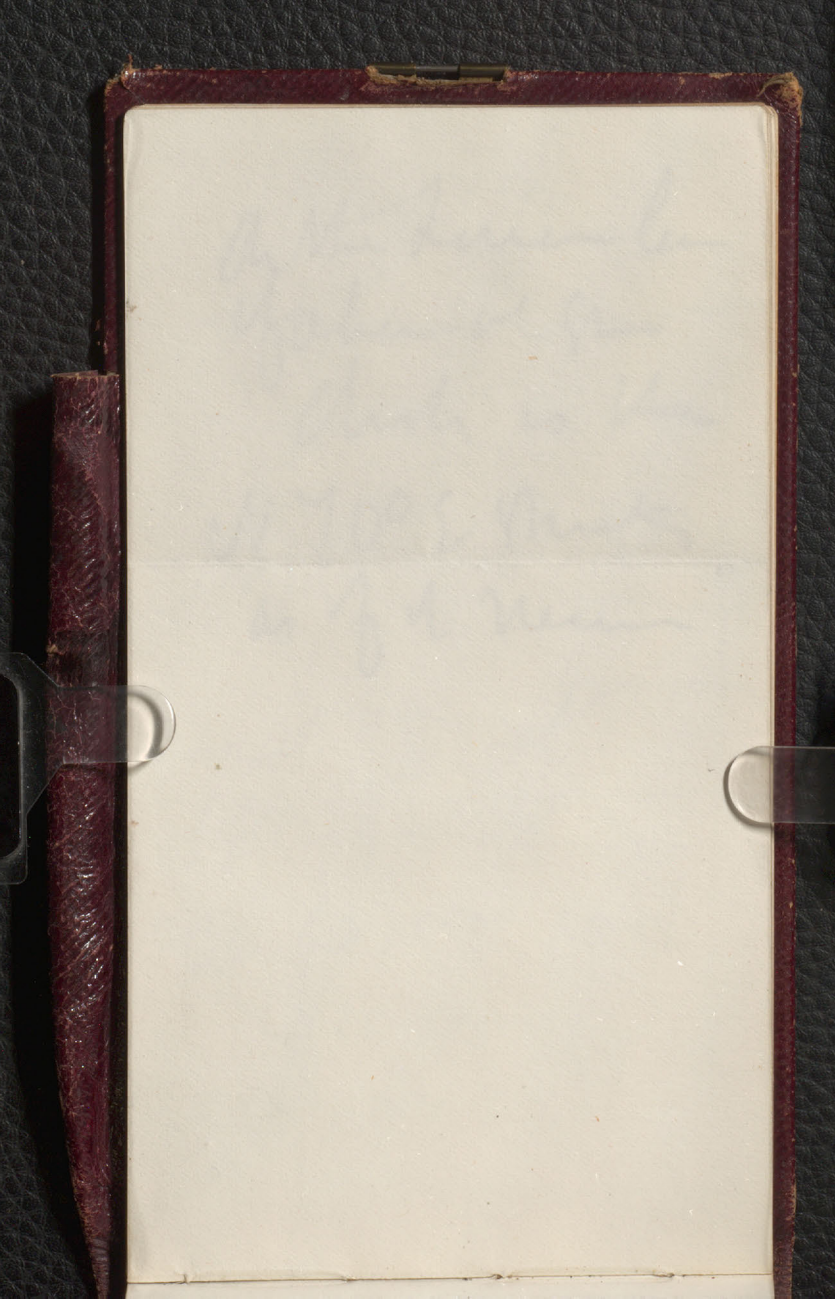
1893

1894

1895

1896

1897





93 States

938 Octave

103 Fautape

113 Sayabee

120 Cedar Hill

128 Comqui

141 Chesapeake

156 Assamelpagan

166 Hill Street

176 Matapedia

189 Campbell

374 Church

W of outlet Lake dips  
Southeast, in bluffs

Summer Park

5 1/2 tenths  
above my  
house

---

Rocks here black  
Gylen shale  
folded into  
General high  
dip to SW  
Strike NWSE

1st cutting then  
foss holes  
beautiful  
arrange at  
same holes

2d cutting off  
went to center dig  
went to center hole  
above heavy heavy  
Dunlop  
Take 2 Rob  
also. Coursey

3rd Dr

June 2nd  
New Bedford

---

44 00

returns to

Grey Shoes

2nd return

than be

of good

---

5 1/2 hr  
Deliveries  
Shole

6 The same  
By Sholes  
St. Luke  
Road in  
St. Luke

7 The same

8  
Was some people  
and Sholes  
St. Luke

9th Cuttings  
Black Shales  
as at Summit

---

Station  
Fossiliferous

---

Very fine of  
Shale sand  
6 ft thick  
Arenoid above  
metre

---

154 Cuttings  
Grey Shales

2d Dr

Red of Gray shales

Some heavy

flat

then some

gray shale

interbedded by

red shales

shale W

---

3d Dr

Red shale

interbedded by

4 H Do  
Black Shale  
Shales like  
summit

---

5 H Do  
Soft shales  
on at summit  
Surface through  
some  
boulders

---



6th Dr

Grey shales  
again  
under

SW, SE

7th Dr

Brown clay  
resty on hill  
Grey shales

---

8th Dr

Red & grey  
lumps

QH Dr

Hand by

Quadrant / one -

Cedar / 1 man

red shale

Dr of S.W.

---

Shale, obscurus

of W & S E

---

QH Dr

Fig. Shale, again

(S.W. strike)

Safe sample  
nets a  
particular  
purpose

Station  
Sayabec

Beyond this  
point plan  
no work except  
on small  
exposure after  
lunch on Sunday  
check of this  
gradings

Road runs  
nearly due E

to quite straight

Metapedia &  
White Bedded  
Murchison Shale  
up to NW

P. Linnæus,  
Saw below

Station

Cedar Hill

Foot of

Went to the  
what seems  
San Juan  
down the  
seems to

Have been  
in to 8M

A Road  
But nothing  
to see no rock  
only gravel  
ridges

Shaly limestone  
None dipping  
to southward  
Cur angle

Army with  
low ridges  
& apparently  
unconformity  
with shale

Still elevated  
5/10ths

Station  
Cinque

---

Wading of Melapelle  
from beyond station  
flat limestone  
gypsum open  
furnace ridge on  
one side of him  
I capped with  
boulder deposit  
Lug cutting through  
power be  
upper dark trap  
pew like rock

Then hard  
dark shaly  
Limestone  
highly fractured  
look like Cape  
Gard rocks

Another cut of  
fine  
shale with  
hard angle  
(high)



Then at lake  
found water very  
deep banks  
of limestone

---

Station

Cross-section

---

<sup>grey</sup>  
Hard flat  
rocks deep  
SE of  
creek

Hills here seem  
ring out of  
up at plain to  
some extent

Sony down the  
metapedia

Rotten Mass  
or One's Ameston

Sumeston high  
depth of W

Approach to  
Carpusca  
Slater  
diff of Black

Steep cliffs  
to such an  
angle that  
they seem  
vertical  
looks like  
went through  
sand

Station

Casapsee

Little just  
one cut

In same  
rock as  
Co. for

These rocks for  
can hills

In respect  
Source of River

State, National  
Change Saw  
Strike

Near Water  
Section R

These slates  
in shales  
extend on  
very distance  
Look like  
a single sheet  
with undulating  
bands of  
shale parting

Then comes a  
coarser bed  
? or below

These rocks extend  
all way to Spring  
Met Station

Station  
Chesnut

Part this new  
state rocks  
course

They new  
good state

great cullies  
of  
shales

of some as  
before

More slate with  
columns of  
dip  
structure of clay  
cleavage horizontally  
crisp  
of fine  
Theophanes County

---

Stable  
dull stream

---

Same State  
County

Approaching water  
Red State: Paper  
Terraces & fine  
beds of gravel  
Gravel  
Course stay  
Rocks

---



New Paper  
two Saggas  
all 20 feet  
below 1 ft coal

---

Tree 5 ft high  
1 ft diam  
great amount  
at top  
filled with  
cherry

---

Chico shales

---

Sandstone  
with blue

---

Also of  
Chico shale  
sandstone  
also 50 ft  
They by  
But sandstone  
2 ft

1876

Repe Bed at Gages  
contains many columns  
but no replacement the  
you except are they  
on the reef. Probably  
200 feet exposed - and  
of more in reef -  
shows how rare they  
are - this cliff would  
cut into in last  
few years. Whole  
course shows great  
erosion, & its features  
considerably changed  
since here last.

Paper bed / Gey  
all 40 ft Pat  
Summit or  
half way below  
it & wavy  
horizontal

In abundance  
of <sup>blue</sup> red shale  
also soft than <sup>4 ft 9 in</sup>  
under a sandstone  
ledge 1/2 ft thick

never better

of been about

1 yr ago better

which  
is a  
n

6 in diameter

and 4 in high

a new specimen

The tree is dead

in a colony a

little harder than  
the best

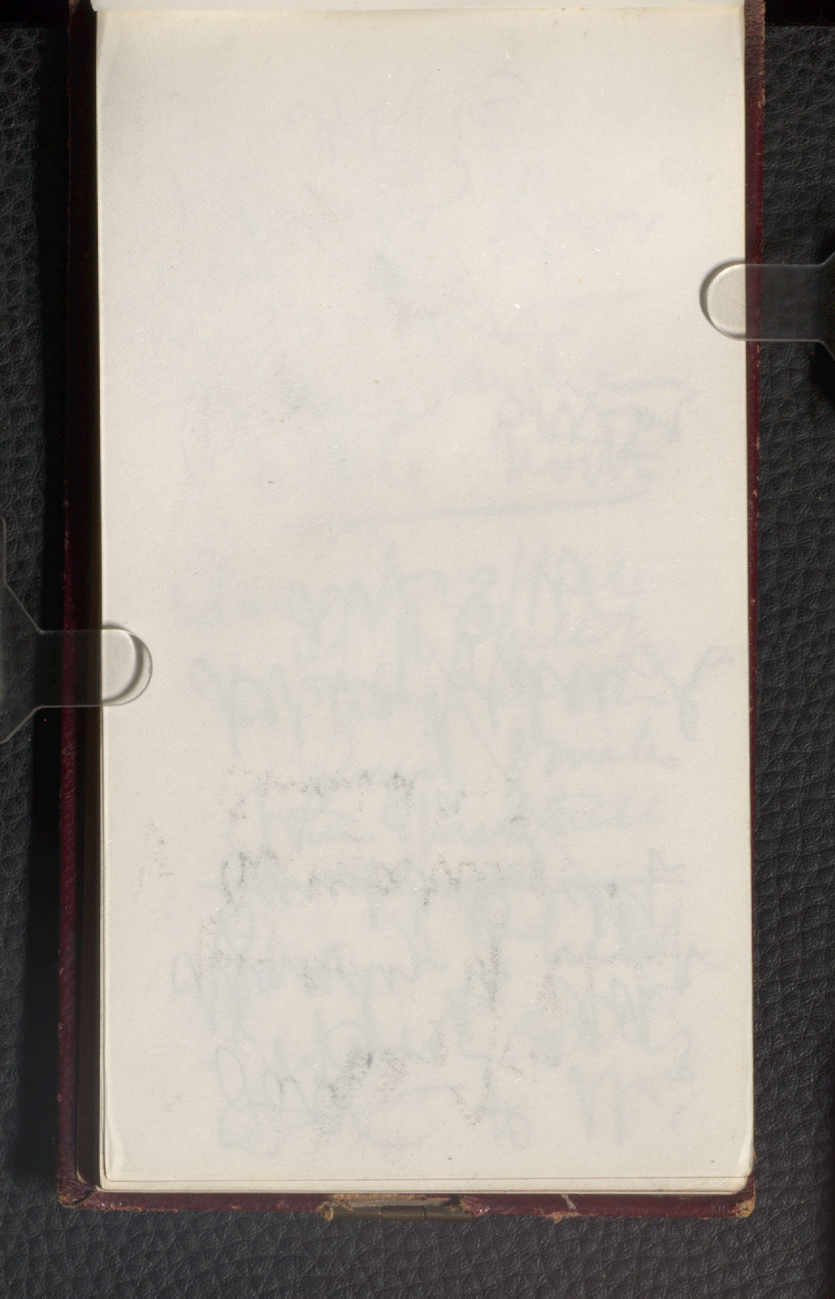
~~Sample~~

Shot

~~Sample~~

must  
be  
sample

Not very far  
from center of basin  
to half a mile back  
Crested mine



Gate -

Mason to Athol

Sandston dep

to S n SE

Athol plumb

dep SW

Berger's other

grass and

grass

a nearly flat

grass



Beyond Spinghill  
Gault dips  
down

becomes higher  
& still north

Claremont Hill  
at R Phillips  
is edge of the  
West 3 miles  
from Spinghill

---

Just N Phillips  
valley says  
Jr to Mr.

Members of  
Greenwich  
Red Guard  
to Red Guard  
to Jerry B. Day

---

Greenwich State  
Up in England

---

Part this  
that England  
red not come  
then red search

~~Shale Gas~~

~~sup cr~~

~~then red shale~~

~~Hard rocks del~~

~~South~~

~~Hard slates &  
granites ?~~

Wentworth July 25/76

19<sup>th</sup> cut 30 paces to the W

hard gray fine

grained limestone

Bed of ash

Red soil

Sand 4 ft

Dip SE 45°

Limestone 8 ft

Top ash 10 ft

Green sand below

Green shale

Dip to W 70°

200 paces

Top still of  
Dune but muddy  
by clay blocks  
or other  
Bulky red  
Granite  
Top to looking  
but being vertical  
Shut 8 23 W  
What seems  
General shut  
here  
68 miles east of Cut

~~Dark brown  
nearby 160p~~

~~Small ridge  
all loops~~

~~cut and square~~

~~8 1/2 8 1/2~~

~~2 1/2 1/2~~

~~looking change  
of this here~~

Japan 9  
Year 1807

In Cotta some  
boulder clay

---

83 pieces  
flint & boulder  
clay containing  
parting shell

Crumb grey  
slate

Shk 560E

very fine  
Shk 58

Fault of  
Grey quartz  
& grey slate  
Dip SE  
at 500

Green quartz  
Dip uncertain  
but just to  
& very short  
then dark  
brown slate



~~Dep to S by hyl~~

~~Medd Alen~~

~~Flates lwh~~

~~Wentworth~~

~~Then Spedder~~

~~Green~~

~~band~~

~~Dep per~~

~~Medd slat~~

~~E & W~~

~~Dep to S by hyl~~

Black slates  
Dip to SW  
As S. also  
but hard to  
tell from  
stop there

True dip at  
one place as  
dip of fossils  
SW by map

~~At Natick there  
were succeeded  
by harder clay  
& then by woods  
Rock in part  
with Specular  
marks —~~

~~Then —~~

~~Great thickness  
of Felicitas, Purple  
Specular Rock &  
Green in  
upper of red~~

All these cutting  
under these joints  
the shared plates  
4 plates per row  
and the repetition  
of frame too  
more allowed

---

At base it  
seems to be  
that this is  
with a folded  
up with the  
others when

and of type of  
Dues also old  
Series C Period  
Dues in <sup>4 years</sup> June  
also developed  
A series of type  
Memphis in  
are for class  
~~at~~ students

Note on Wednesday

261 Chats Secum  
Warrick

Tree of Blue Pigeon  
Beans - of Lefort  
Warrick  
Smith Frank Warrick

Note here regarding  
Mrs. York Warrick Ad  
Get Living - my you  
I you granted her  
the use, Warrick  
little not needed  
of your presence  
Warrick Melody  
Warrick

---

Note how little Warrick  
Warrick as the young  
old

and the respectability  
depth of sympathy in  
heart on all I have  
seen father interest  
in business house

of Cambridge Mass -  
want to do the same  
as you request a plan  
or at least as best  
of your aid -

Deep mind life with  
veteran life - above  
of around the same

---

Butcher July 1st

June - of Lombard  
3d 2d

*[Faint, illegible handwriting on aged paper, possibly bleed-through from the reverse side. The text is mostly obscured by ghosting and fading.]*



New Bundle  
1st quantity  
Pocahontas

---

Fluffy Sucker 6  
March 6

---

Red Sucker 5-

---

Fluffy Sucker 7

---

Sucker 10ft

At head of pass

Grey sand shale ~~to~~ 30

+ Coal 6 1/2

Wedge of <sup>pty</sup> 6 ft  
pass into grey shale

Coal 2 1/2

Grey sand 10 ft

Wedge of  
shale

to 20 ft

+ Then layer of  
sandstone has  
replaced the

~~New Branch Coal~~

~~2 small trees 20 lbs~~

~~by weight - One~~

~~4 Gray Shale 9~~

~~Quartzite - One~~

~~Crude of Shale~~

~~Yellow~~

~~Large pieces~~

~~left to~~

~~wood made~~

Saint

Shule

Saint

Shule



N of Lewis Quarry  
Sandstone lies to W  
about and  
under same beds  
Og is 200 ft high  
green 80 ft  
light green shales  
all 30 ft  
much less set  
same thickness  
near part

---

Coal bed  
at Campetto  
abn. coarse  
brown sandstone

---

Largest sandstone  
84 x 13

J. W. Deane

Chapman Press

\$14 per ton

At Mill above

Spurlock Rock

Spurlock Quarry

by car 1

House to him

2 ft lower below  
to mill

See - in hand

Wash Butters

Put floor - clay cobbles  
with sand shells at  
junction -  
Hard to find rock &  
Black granites the  
seems to hold  
the level country  
Shells in places  
Gray shale & sandstone  
at top

Little Rock

Edges of hard dark  
green & chert rock  
Gray sand

Belleme

Some rocks of upper  
floor level - as in strike  
of road, some rocks of  
same level below

Suffe from same  
Says red course stays  
1/2 the W S East R  
River close to King  
Target R / <sup>Gravel & pebbles</sup> ~~seen in pebbles~~

Soft rocks in the  
middle of the  
mountain all the way  
Hard rock again as  
before  
Red hard rock  
green base so as before  
near mill

Red bedded slate  
Suffe S  
Chalk

Dalhousie  
Suffe. hills east to  
the house



~~Congress & Shale  
Upper ...  
V. ...  
Amphibeta~~

~~Top of ...  
...  
...~~

~~Keokuk ...  
...  
... - ...  
...~~

~~...  
...  
...~~



~~...~~

~~...~~

Soft blue sand  
gray red coarse clay  
1 lb W S S R  
Rind close to base  
Tarquet R / <sup>front of purple</sup> <sub>seen in rocks</sub>

---

Soft rocks in thin  
layers  
chert gravel alluvial

Blue gray shale in base  
bed of bed of them  
shaly clay on that part

---

Absent gray

Thin slates of same  
quartz bed  
1/4 in flat - strike of  
west half of west Crosby Run

---

Carrapace  
Thin shales in

Light dark brown  
material over the  
loam - see former  
note -

---

See Section of  
to cedar base -  
Flat

---

Behind Cedar Wall  
between 2 Soyabean  
gas stoves, 2 P.T.s

---

Men up red clay  
up Soyabean

---



2000

↓ 2000

Red above  
zone of hard  
grey sandstone  
with blue limestone  
green

Hill near  
Barley City  
Dinner table  
sh at 50° E  
& dip to south  
near new to  
School House

30 Aug 1964  
Wendell

4 Chapman St

Wendell  
Repulse St

No 1 bus

Wendell

Wendell

Wendell

Wendell

Wendell

Wendell

Dak Hill  
Soil

Strike S 60 W

gray shale

---

1 feet thickness  
of gray shale  
at base of

2 massive dark  
serpentine  
thin

~~Bond of Kuyper  
in some cases  
Wae schijn neeng  
Nertus duff  
S.S. — Mary  
upent into Gethse  
Sheet — & Sewer  
about 30 yds  
of Muckpaper  
fuker me fuker  
step of up  
Graphite sheet~~

~~△ outler~~  
~~outler~~      ~~sm~~ →  
~~slay~~



in place aspect  
to such supplies  
unless it can be  
aboutly 30 to  
20 feet long  
base

State district also  
40 miles to 80

of State &  
Serpentine

into dip N60E

at angle of  $38^{\circ}$

down this

at right angles

to State <sup>which is vertical</sup>  
of ~~and S. 70° W~~

General run of

Serpentine

Carling Manganese

beds of

At Rockland  
Mass

Chief Road West of  
Mud Pond  
order of Chief  
J. S. Smith  
Mud Pond Bay  
Smith's Paper  
who is called  
Gilly

It is a paper  
at present

~~Top of hole of  
Bore seems to  
be unimpeded  
but with same  
shut dip to  
S —~~

Made a bath  
Crest Head  
Some of the  
State of

S 70° E

average of 40°

This at old  
in creek

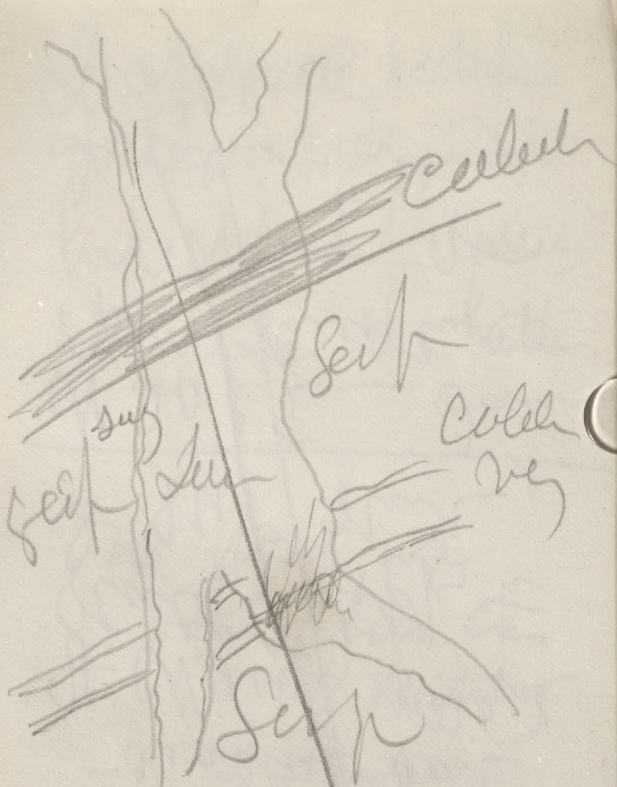
Sept 2  
Miles from

Deep valley between  
this & Serpents  
but its deep carries  
it under the latter

---

In road up  
to Salmon Cr  
& Rockley  
a bridge  
Must ~~be~~ at  
side of creek

(R. K. Vales)  
Rochester, N. Y.  
New River  
hard green felspathic  
quartzite rock  
of Mass. & Blue  
slates dip to  
SW SW  
N 20° E — same  
as in New York  
North of  
Ipswich Valley  
Mass.



Serp of level  
Dredges  
Calcutta Bay



In Deep Water  
Ledge

Rem of Lenses  
What is that  
of my Specimens

as they

Mount

Flat Mount as  
same as  
beddy of Glots

---

Since in ~~Stambridge~~  
will be less  
4 in Root center  
from

---

1/2 of stamped  
state here & same  
in Dutch River

Melburn

Duany

Upper tunnel

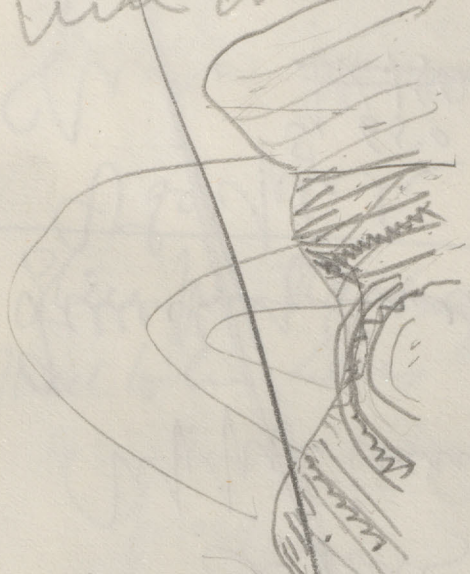
Face of shale

Vertical

Strike  $S_1 65^{\circ} W$   
~~W 15 S~~

Near vertical  
slate same  
strike as

at base of these  
slate with the Secker  
Mudstone  
black slate of  
with waves



on the side of the hill  
at Smith's Cove

Members from  
also 30 feet  
a mile

---

Cups Valley  
of Duellor Valley  
Blair State  
of Penna  
of W of side  
Kings Church  
State  
of Penna

These roots  
are all my  
Cytellus  
and many  
by many years  
Ages —

namely the  
Cytus of Bzue  
of some hands  
of my old notes

~~The of [unclear] + [unclear]  
 [unclear] + [unclear] + [unclear]  
 [unclear] + [unclear] + [unclear]  
 [unclear] + [unclear] + [unclear]  
 [unclear] + [unclear] + [unclear]~~

The Heals, [unclear]

apparent in  
a number of  
columns  
intermediate

Such as  
this



Fault to W  
Harrow Church  
Schools  
dip at  $90^{\circ}$  E  
at 200'

In the large  
Lepton maps  
of Cromwell  
Limestone

Spencer  
all 150 yds  
Wagon Chert  
Slates  
Dip cr -  
at 200  
↑ ↑  

---

~~xi~~

cut country

---

Near Schuyl  
Dome Deep Set

Gray mottled  
arenaceous shale  
with hard spots  
dip  $40^{\circ}$   $W$   $0^{\circ}$   $E$   
at top high  
angle  
all 750

Muddy Family

---

Head of  
Charles and  
W. G. G. G.  
Great Truckee  
Lumber  
Map of  
Cronwell  
Lumber  
dep at port

Wanted to see  
Lithuania  
found

Rev. Dr. ...  
CV 20.2

Original ...  
...  
...  
...

*[Faint, illegible handwriting, possibly bleed-through from the reverse side of the page.]*

Washed & Mar  
like them in  
boulders

Rev. D. J. Smith  
CV 20.2

Washed & Mar  
boulders date

North Green & Shells  
Lying to SW

Fourth East  
at many  
Cupful of Shales  
look covered  
with sanding  
of sea - some  
without shell


---

Most Eastern part  
at Charleston  
Cupful <sup>more</sup> ~~less~~  
Surface work  
many shell



~~W 550 E Shear sheeted WE  
WE Shear~~

~~A few old shear  
on upper surface  
near to WE  
and repeated on  
WE side than~~

~~WE  SHEAR~~

~~Large Shear  
Probably older~~

Farther East  
Shells in rough  
surface NE

also an edge  
of lower to rest  
of a full lip

On top of this  
still better shown  
of surface surface

of 55° E

Further E line  
became gray very  
good since  
CV 550 E

---

Well polished  
surface

---

Further from same  
may some dent

---

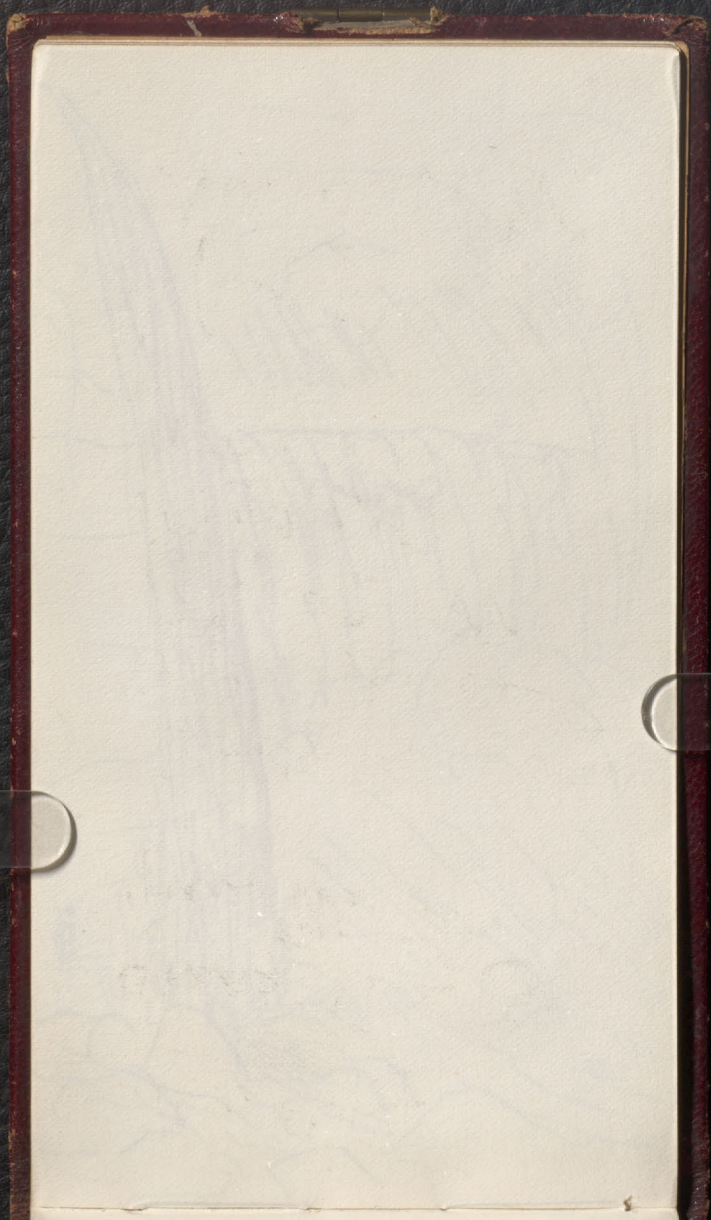
Little further this  
cupped by lap and  
further down  
line N 30 E

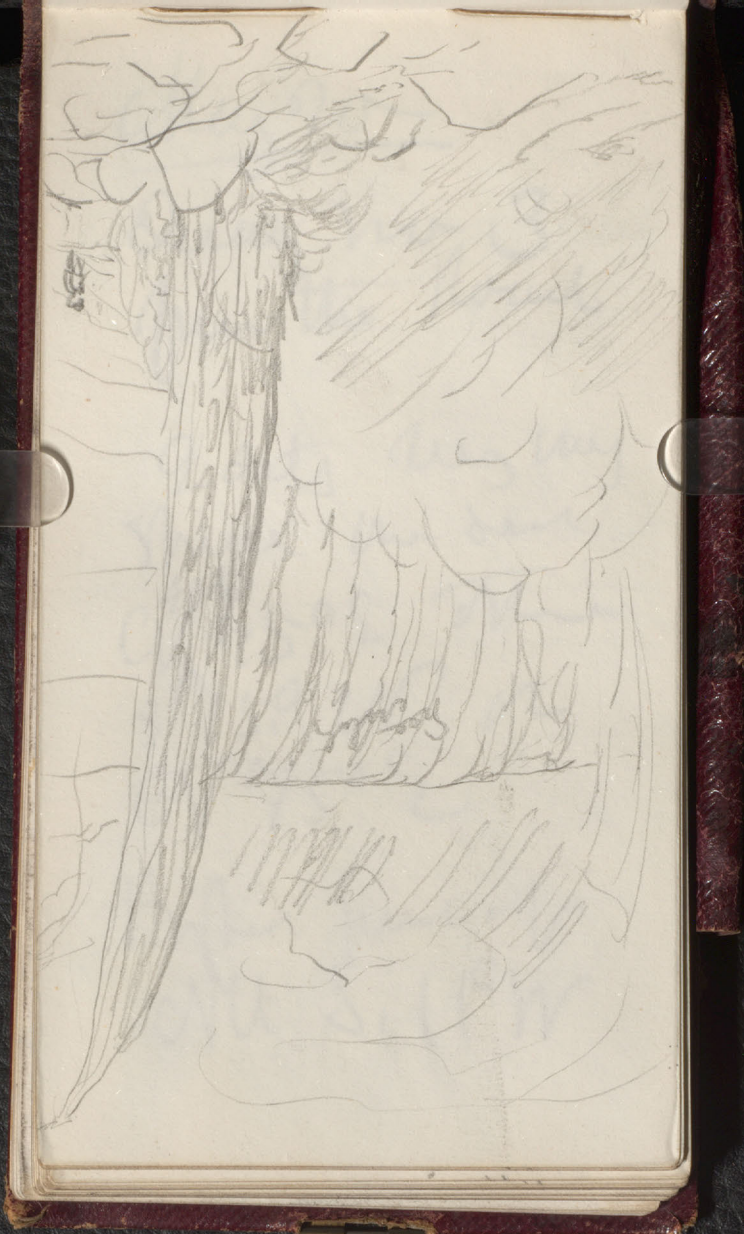
May 20

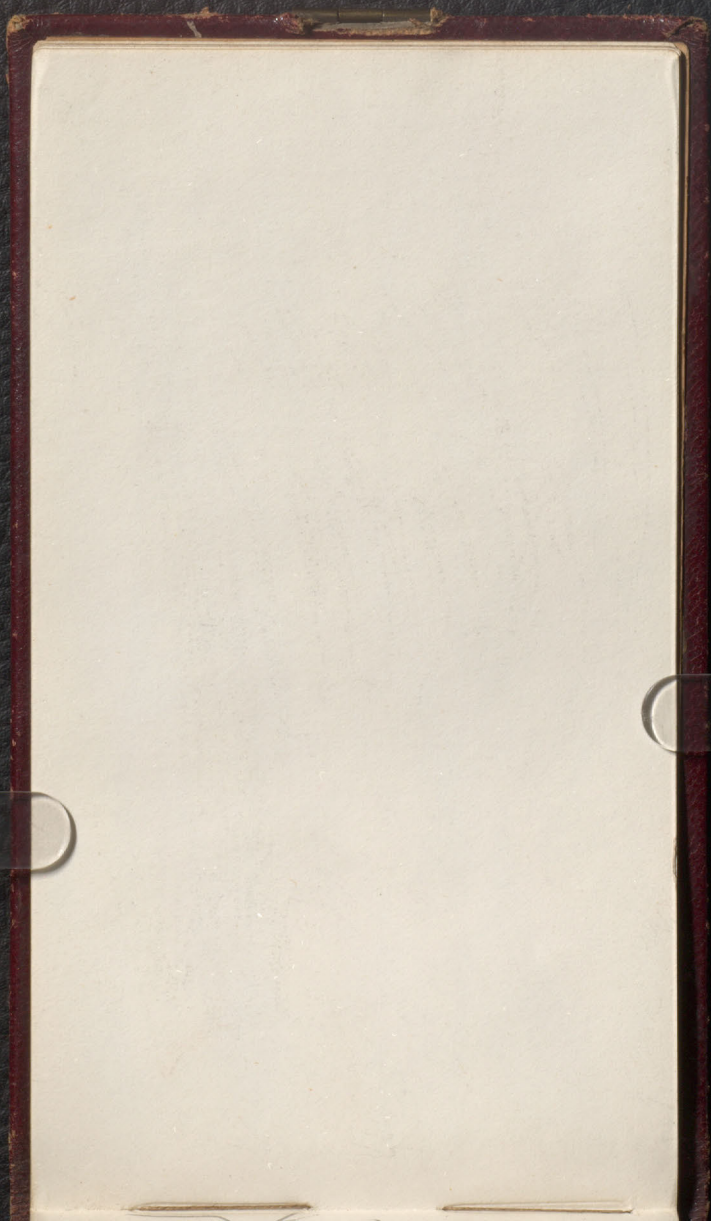
Deer no 3  
from the Road

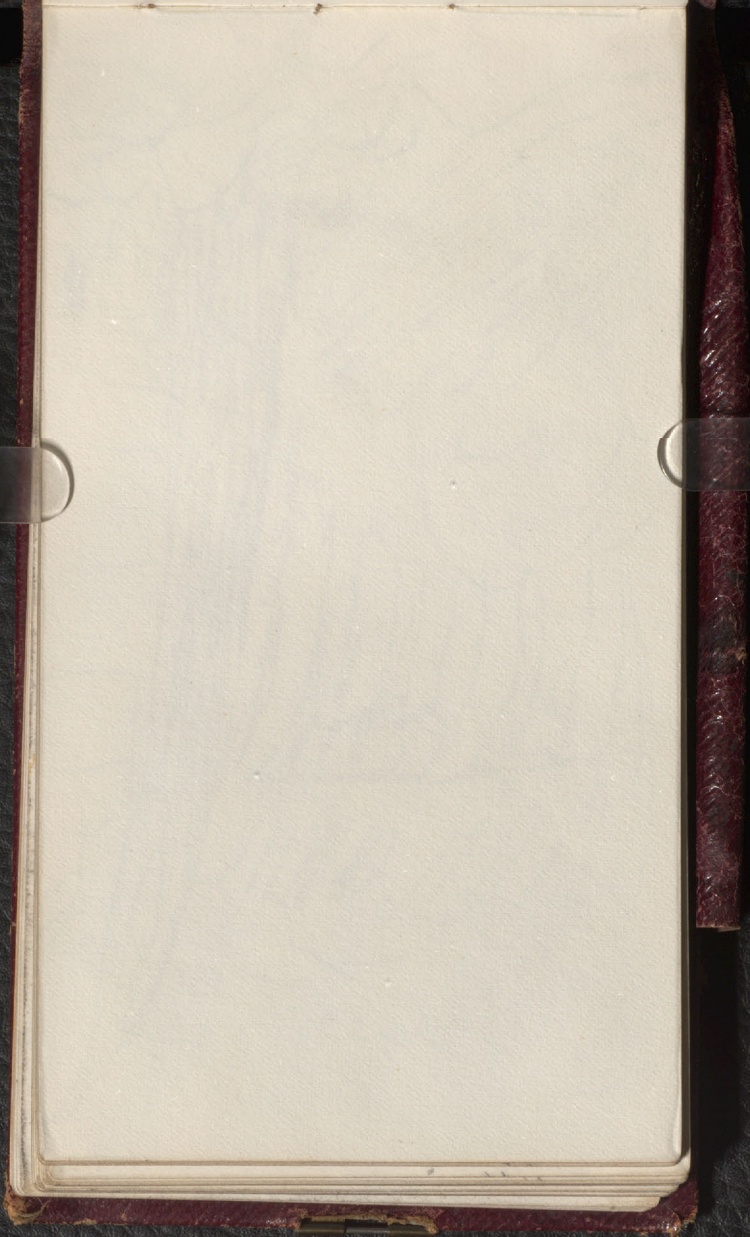
2 sets very dry  
where the deer  
W <sup>40°</sup> 75° E then  
S 15° W N  
W 75° E

Higher part of  
cut S. 11° W







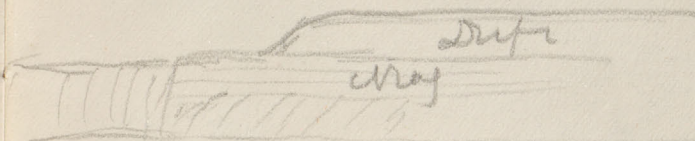




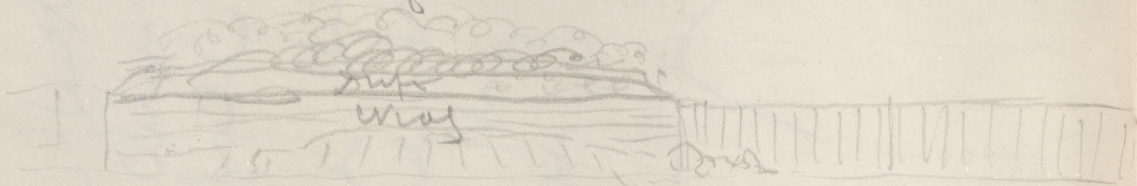


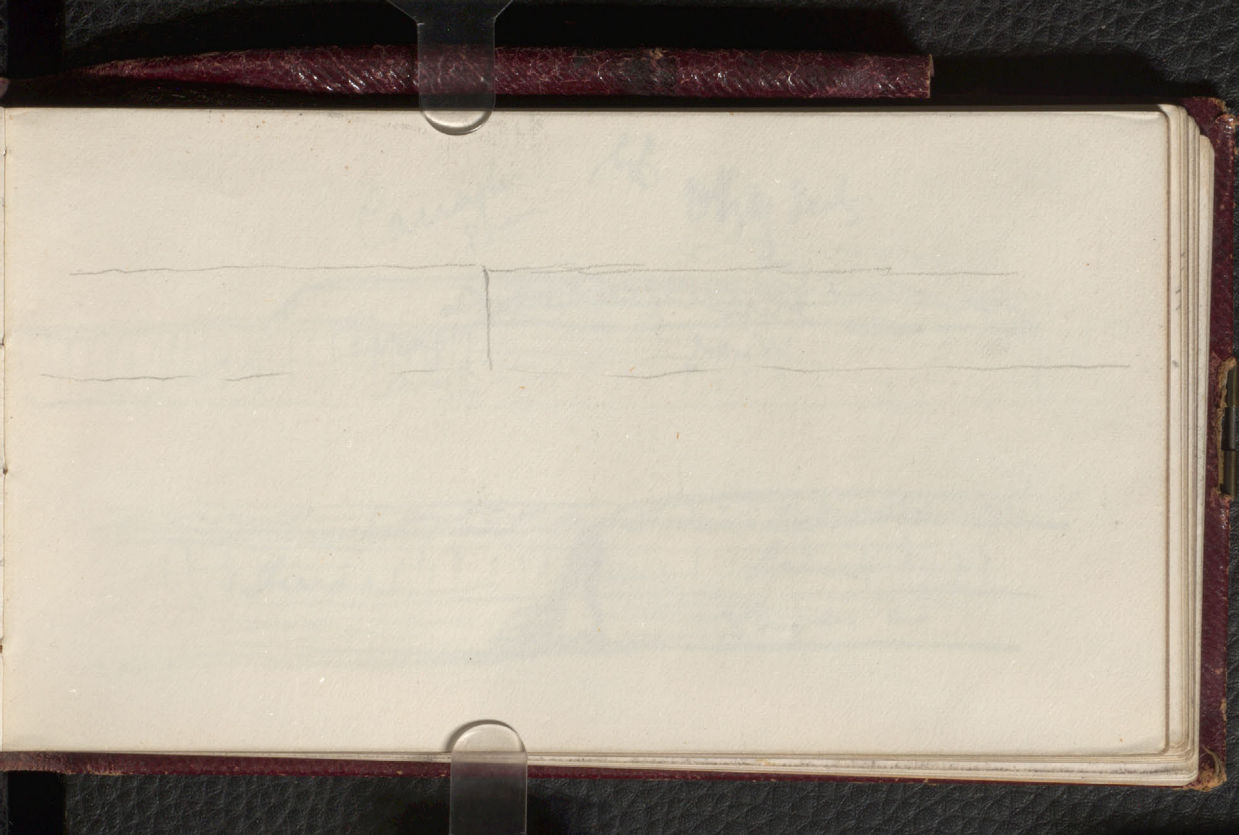
Carroll  
Shaw

May 25



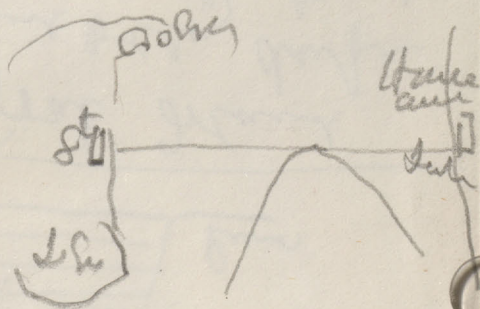
June 2nd



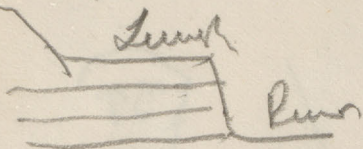


In time with  
deepest current  
gear full

Seal between the  
Jaws and is  
broken by

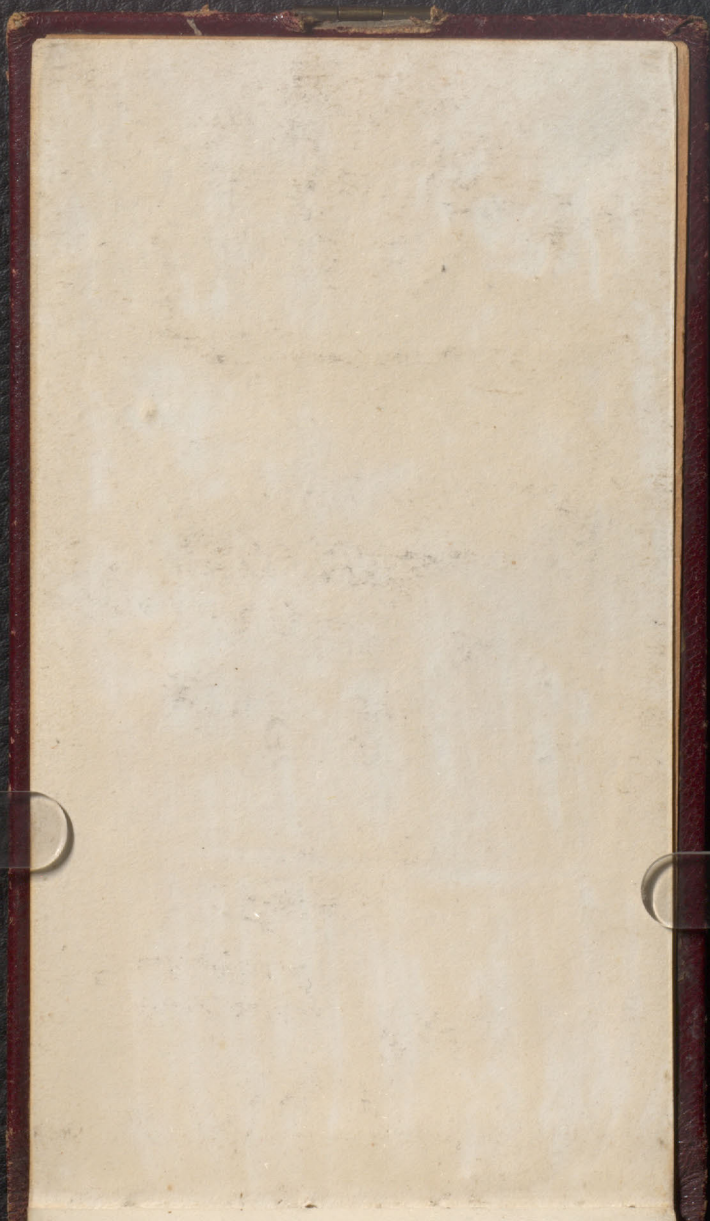


Mayana  
Carrada Side  
Barramunda



Goat Island  
Small belly duff  
from the keep  
over Lunch

Seat on Goat  
Island Seat  
fine berries in  
in Sugar Bush



1  
2  
3  
4  
120

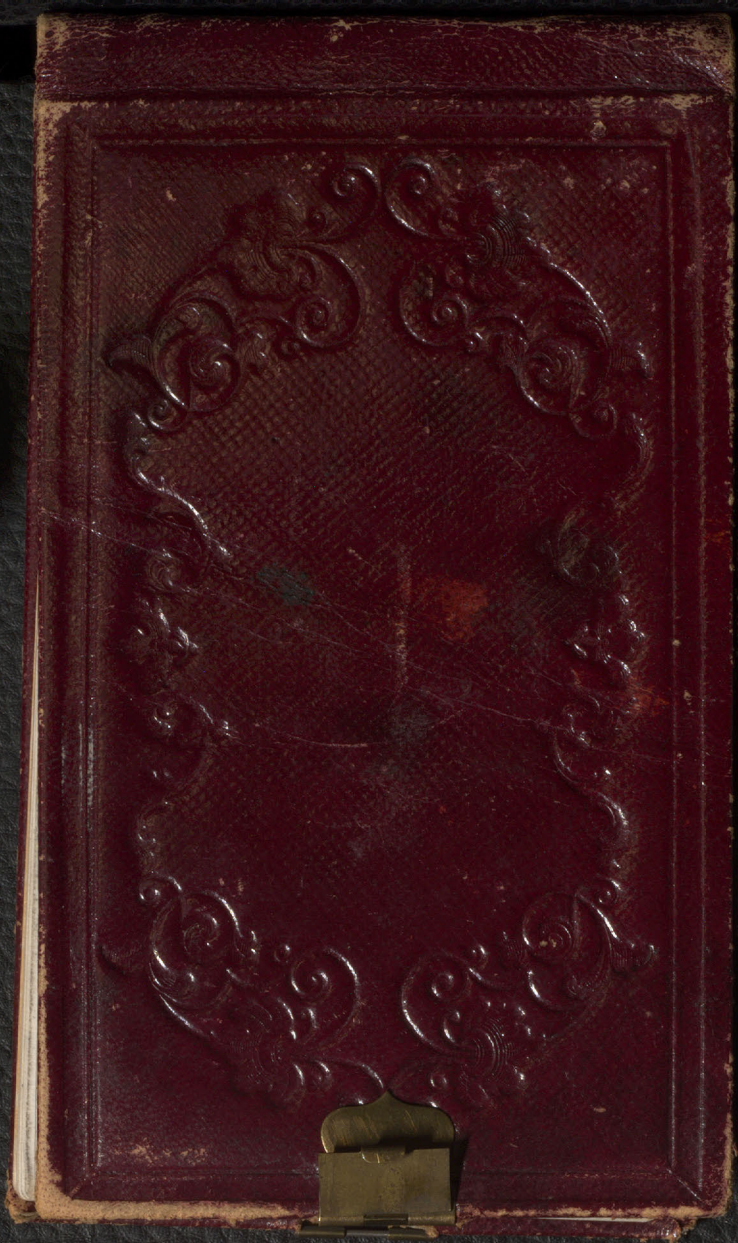
8  
9  
10



# ALMANACK. 1864.

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
Jan.	...	...	...	...	...	1	2	July	...	...	...	...	...	1	2
	3	4	5	6	7	8	9		3	4	5	6	7	8	9
	10	11	12	13	14	15	16		10	11	12	13	14	15	16
	17	18	19	20	21	22	23		17	18	19	20	21	22	23
	24	25	26	27	28	29	30		24	25	26	27	28	29	30
	31	...	...	...	...	...	...		31	...	...	...	...	...	...
Feb.	...	1	2	3	4	5	6	Aug.	...	1	2	3	4	5	6
	7	8	9	10	11	12	13		7	8	9	10	11	12	13
	14	15	16	17	18	19	20		14	15	16	17	18	19	20
	21	22	23	24	25	26	27		21	22	23	24	25	26	27
	28	29	...	...	...	...	...		28	29	30	31	...	...	...
Mar.	...	...	1	2	3	4	5	Sep.	...	...	...	...	1	2	3
	6	7	8	9	10	11	12		4	5	6	7	8	9	10
	13	14	15	16	17	18	19		11	12	13	14	15	16	17
	20	21	22	23	24	25	26		18	19	20	21	22	23	24
	27	28	29	30	31	...	...		25	26	27	28	29	30	...
April	...	...	...	...	...	1	2	Oct.	...	...	...	...	...	...	1
	3	4	5	6	7	8	9		2	3	4	5	6	7	8
	10	11	12	13	14	15	16		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		16	17	18	19	20	21	22
	24	25	26	27	28	29	30		23	24	25	26	27	28	29
	...	...	...	...	...	...	...		30	31	...	...	...	...	...
May	1	2	3	4	5	6	7	Nov.	...	...	1	2	3	4	5
	8	9	10	11	12	13	14		6	7	8	9	10	11	12
	15	16	17	18	19	20	21		13	14	15	16	17	18	19
	22	23	24	25	26	27	28		20	21	22	23	24	25	26
	29	30	31	...	...	...	...		27	28	29	30	...	...	...
June	...	...	...	1	2	3	4	Dec.	...	...	...	...	...	1	2
	5	6	7	8	9	10	11		4	5	6	7	8	9	10
	12	13	14	15	16	17	18		11	12	13	14	15	16	17
	19	20	21	22	23	24	25		18	19	20	21	22	23	24
	26	27	28	29	30	...	...		25	26	27	28	29	30	31
	...	...	...	...	...	...	...		...	...	...	...	...	...	...

Patentees and Manufacturers of the Improved  
METALLIC MEMORANDUM BOOKS.



Glaccation  
Indians &c. &c.  
West Coast

1876

MS. COLL. G. H. DALSON

Mrs. Peck of New Westminster tells me of existence  
of stone circles at Mc Neil's Point near  
Victoria

Grooves on Macaulay's plains opposite Mrs  
Pooley's, near Victoria.

Square "fort" partly obliterated by agriculture  
near Clover Pt.

Says that near Government buildings New  
Westminster a sort of terrace above the river  
with many old Indian shell heaps with  
Mussels oysters &c which do not now  
inhabit the Fraser river estuary. Seems to  
indicate former change of level. If coast  
now sinking & increase remains of date  
prior to its rise, must be of very remote  
date.

Also tells me of grooves of peculiar sort near  
Leech R. v. l. Built up of flat stones, very  
opine like holes on surface. No remains  
but very fragmentary bones found. Indians  
of the coast afraid of the locality, & have  
a tradition of a race without joints in

then Kees, who formerly inhabited it.

Told that similar story of hunters begged  
indians told by Indians of coast at  
Nanaimo, of the interior.

Told by Ben Hughes that Squamish Indians  
of Burrard Inlet will not kill  
wolves. Say it spoils a muskrat to  
shoot a wolf with it. One Indian known  
to have shot a wolf afterwards sold his  
gun.

May Vancouver's account of fortified villages  
on the coast to the north serve to account  
for works at Friday's Point & elsewhere?  
See especially Vol II. p. 46. Though often  
mentioned elsewhere. Isolated flat topped rocks  
fitted with projecting flat forms, on which  
breast work. Think J. G. Sevan also mentions  
pallisades round coast villages of Cape Flattery  
(Examine works in this regard)



Calk Bay shell heaps from 6 + 8 + ten feet  
thick along the high water mark. Evidently  
Indian throughout - & from subsidence of coast  
probably, are now being cut away at  
high tides. Their base below highest water  
mark.

March 19 1876. at Mr Dodds' at the  
Gorge. Victoria. B.C. Saw some interesting  
Indian remains. Skulls & implements  
supposed to belong to an "extinct race". The  
persons to whom the bones had belonged were  
evidently buried. Mr D. thinks probably covered up  
by Melaena shell heaps - which here have  
developed - big piles on them, would like.  
The area yet to "be found" which not very  
well defined, in which remains found, very  
considerable say perhaps from description  
20 feet. Remains about 6 feet below  
surface, & skeletons originally of a good  
many people some at least of whom had  
been buried <sup>in</sup> sitting posture. Mr D. also

Remains with  
informs me that he found skulls  
of the ordinary flat-head type above  
these now more particularly referred to,  
& as though buried subsequently, also  
that over the remains trees some of whom  
18 feet in its circumference had grown  
since they were deposited. There appears  
to have been a number of individuals  
buried here all of whom Fox not yet  
been disinterred. Mr D' states that  
he noticed the difference between the  
flat-head & these older skulls, which is  
also apparent from the fact that while  
he returned the flat-head skulls he  
preserved the most perfect of the others.  
The skulls are of a very low type. The  
forehead in profile retreats very rapidly,  
& the nose in front is very narrow, with  
the fore part of the head pushed upward  
into a ridge along the suture. The backs  
of the skulls (2 now remaining) have  
apparently been somewhat flattened &  
distorted, probably by the cradle board though  
not perhaps intentionally. The ridges

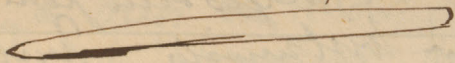


for muscular attachment about the occipital region are not specially prominent, & the skulls are not unusually thick.

The profile of the face is markedly prognathous. There is no appearance of distortion of the skull unless it be at the back as above stated, & in this part has not been modified by pressure the heads have been distinctly brachycephalic.

The tools found with the bones, so far as I could learn were as follows.

Bone pin or awl, or instrument used in wearing mats? about 9 inches long, shaped thus.



Bone implement pointed & hollow on one side



Small agate & hard black slate arrow-heads. Some so small as to seem only suitable for shooting birds. Shaped thus. -



Long stone Spear-head.  
Broken stone implement or net sinker,  
shaped thus, perforated, & about 2" diameter



Head of stone Hammer of ordinary shape



A number of polished stone wedges, or  
skin-scrapers, some of them made of  
greenish material like impure jade or  
serpentine, like wedges seen from excavations  
near New Westminster. Most of  
those here found too short & with too  
blunt edge to make good wedges, &  
nearly all more or less oblique. Shaped  
somewhat thus: well polished.

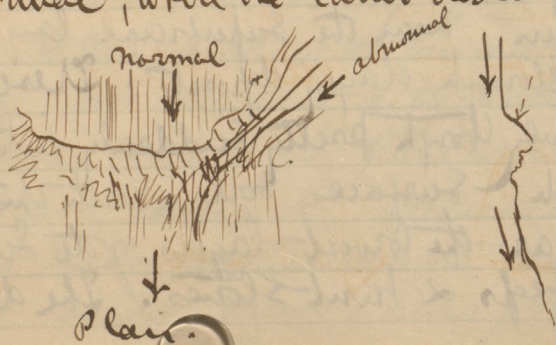


sid. of edge

The teeth are much worn down in one skull still retaining a few. The palatines under gets lower four has two fangs almost fused together, that with anterior to it but a single fang.

Glaciation. Normal direction of <sup>gl.</sup> ~~gl.~~ grooving at Furlayson Point. Beacon Hill  $S 50^{\circ} E$ . The eastern side of the rocky point forms the western edge of a wide bay where a great mass of ice must have been. This side shows grooving & deep ~~so~~ follows, semicircular in outline with abnormal direction of  $S 35^{\circ} W$ , showing departure from normal of  $40^{\circ}$ . The lateral ice has pressed in beneath the normal, where the latter descends a step

.. thus



96. Boulder of coarse grey granite  
near Cedar Hill church measured  
about 17' X 8 1/2" X 7' 11"  
& partly imbedded in the ground.

97. glaciation visible at the top of Cedar  
Hill or Mt Douglas on the shore of  
Cordova bay. As near as the trains  
would allow of measurement  
course S.S.E. Height according  
to Admiralty Map 696 feet.

also ridges & trails of gravel heard on lee side  
of Cedar Hill.

Post-  
glacial

Evidence seems to be that glacial or at  
least cool post-pleistocene conditions  
succeeded immediately by inhabitants.  
And in some places sea shells, perfect &  
with both valves, & sometimes closed & still  
empty, & especially the characteristic  
Cardium, near the superficial layers of  
the yellowish clayey deposits. These pass  
uniformly though pretty suddenly into the  
blackish surface soil, & with this  
appear the lowest layers of the Indian  
shell beds & burnt stones. The dark

Surface watered no doubt indicates  
~~that the land~~ the advent of land plants  
forming vegetable world. Thus the land  
occupied Indians as soon as raised  
above the sea. Has the land been occupied  
before reaching its present level? Iceland  
shell heaps might show this.  
Almost certain that it has sunk a  
little since first occupation.

Interesting to know from the Northern  
Indians (Haidahs &c.) learned to  
work metals &c. & of art-practised  
before white occupation.

Memorandum on Range of Buffalo  
from Arch<sup>d</sup> Mc Kinlay per Dr. Folwice.  
Before the gun replaced the bow & arrow  
buffalo were abundant on the Snake River  
(or Lewis R.) & its tributaries as far  
south as Powder R. Occasionally  
small herds roamed over the prairies  
of the Shoshone? River, Nez Percé

& Walla Walla. Probably between  
1815 & 1825 a few buffaloes were  
killed in the Grande Coulee -  
once the channel of the Columbia River -  
& north of the Blue Mountains, a  
spur of the Cascade Mountains extending  
eastward. I have seen quantities  
of buffalo bones on Powder River in  
1840, & about 1833 when Ft. Hall, a  
trading post on Lewis R., was established  
buffaloes were numerous in its immediate  
vicinity.

The Indians of eastern Oregon ascribe  
the early death of large game on their lands  
to the prevalence in severe winters of  
"ice crusts" on the snow. This I think  
happens more in Oregon than in British  
Columbia, but there also it has in the  
memory of white men caused great  
loss of horses.

For further facts see "Nat. Hist. Washington  
Territory" p. 138.

Glaciation. Rocks on Sooke R though  
hard & compact diorites show signs  
of heavy glaciation. Only in one  
place direction accurately notes & there  
corresponds closely with river valley &  
direction near Victoria. (See notes)  
Near Leach R the slabs when partly  
uncovered are smooth but do not  
show good striation from their top-  
character. The hard drift or "Cement"  
of Leach R is though clearly indicating  
the soft material about Victoria may  
perhaps be a sort of Moraine prograde  
similar to the little hard masses sometimes  
found wedged into crevices of rocks  
near Victoria.

At the head of Ladbarrow Bay about 100 feet  
above the sea road shows in cutting street  
& false bedded sands & shales. The false  
bedding very regular & indicating N. E.  
Currents like those of the tides still  
prevailing up the ~~west~~ <sup>east</sup> of Georgia. The  
Southward or ebb tide seems to have been  
the stronger & to have most frequently left tracks.

Rocks of Victoria vs. Compare with those  
(of about same age?) described by  
J. A. Phillips Geol. Soc. Feb 23. 76.  
Naturi March 9. p. 379.

Change of level of Coast. See Nat. Hist.  
Cookington Ter. p. 22. Where J. G. Cooper  
writes. "On some of the tide-meadows  
about Stoolwater Bay, dead trees of  
this species (T. ficoides) only are standing,  
some in stumps, whose age must increase,  
though impossible to tell accurately. They  
could only have grown when the surface was above  
high water level, grows of this & other species  
were flourishing down to the very edge of  
inundation. But a gradual, slow sinking  
of the land (which seems in places to be still  
progressing, & is perhaps caused by the  
undermining of quicksands) has caused  
the overflow of the tides, & thus killed the  
forests, of which the only remains now left are  
these Cedars. This wood is perfectly sound  
& so well seasoned as to be the very best  
of its kind. Continued & careful examination



of such trees we afford important information  
as to the changes given in these shores. That  
there have been numerous & great is further shown  
by alternately beds of marine shells & of logs &  
stumps, often in their natural position,  
which form the cliffs about the bay to a height  
of 200 feet. But while these remains show  
that the changes took place in the latest  
periods of the Miocene tertiary epoch (?) there  
is no evidence in the gigantic forests  
still living on these cliffs, that any sudden  
or violent change has occurred since they  
began to grow — a period estimable  
rather by thousands than by hundreds of  
years.."



## Change of level of Coast of V.I.

Indian legends concerning  
Cape Hattery &c (Swan Indians of Cape  
Hattery, Smithsonian Contrib. 1869) pp. 2. 57  
Long ago but not at very remote period, waters  
made inland of point of C. Hattery. Water  
suddenly receded leaving Natche Bay perfectly dry.  
Four days reaching lowest ebb, then rose again  
without any waves or breakers till it had  
submerged the Cape, & whole country except tops  
of Mts at Clyoquot. Water on rise became very  
warm. As it came up to Toms people  
flooded off in Canoes, with the current,  
which set strongly to the north. When  
waters went down portions of tribe found  
themselves beyond Nootka, where their  
descendants now reside & are known by the  
same name as the Makahs in Classet  
or Kluwait-checkat. Many Canoes came down  
in trees & were destroyed. Water four days  
remaining accustomed level.

Lake back of Clyoquot V.I. where many  
Indians say that Squaw-tahes gold bones of  
Whales.



