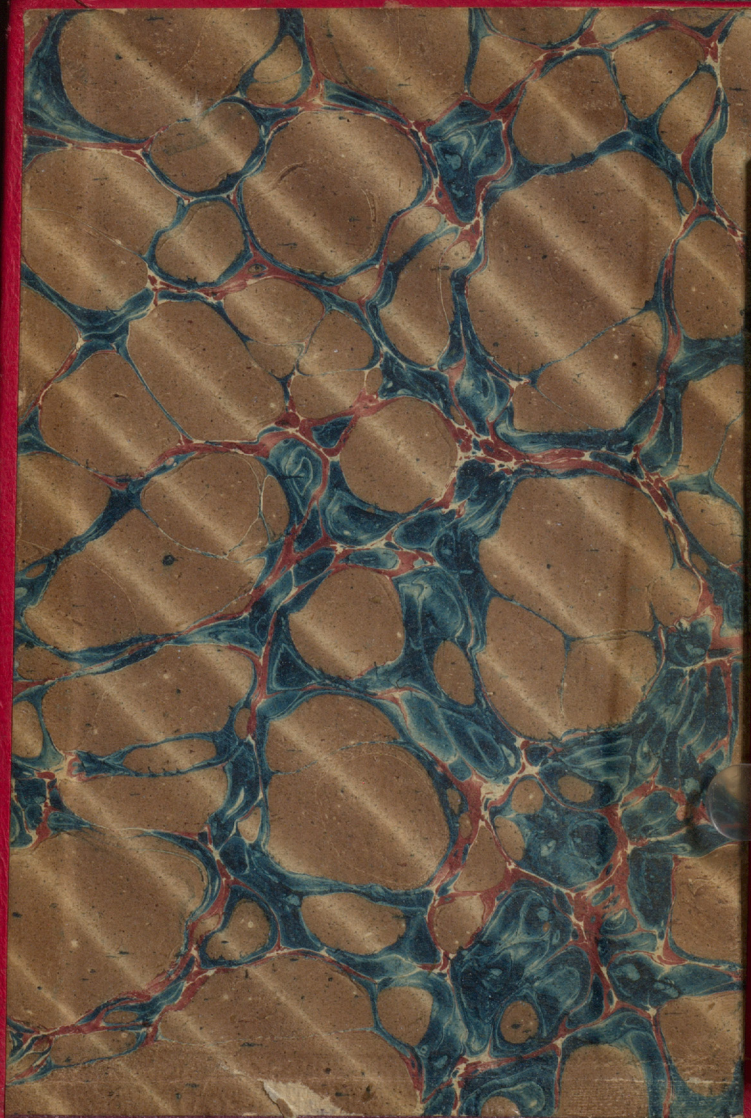
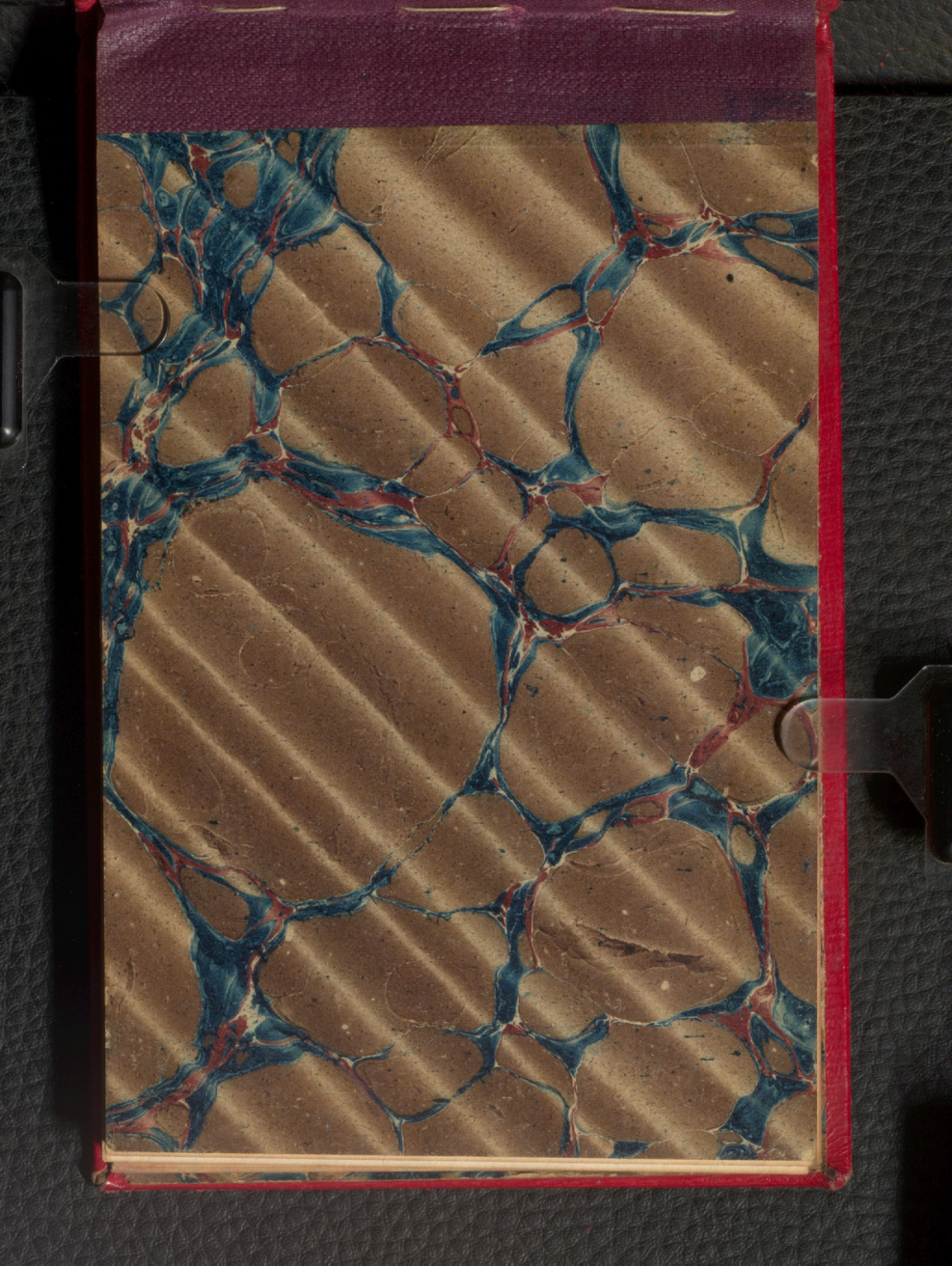


1986





details of
treatment of flowers

Georg M. Dawson
Geological Survey of
Canada.

Jul. 1886.

1

June 23. Wednesday.

Leave by 5:40 P.M. train west to

examine rocks on some part of

Lake Superior section of C. P. Ry at

request of company. Accompanied

by McCarthy one of Ry. engineers

& Dr B. J. Harrington.

June 24. Travelling west all day.

Stop at 10 P.M. at "Mormon

Post" beyond Grasset Station.

2

25 June, Examined Rocks along Railway
from several miles west of Mormon Pit to
about 3 miles east of Amist

Cut at 4440. (old Chainage) W end
coarse black trap. E end red granite,
considerably shattered.

(new chainage 4102)

Station 4446 (old Chainage)
Granitoid gneiss. Cut partly in
boulders of granite & gneiss.

(new chainage 4108)

at E. end of cut small exposure
of trap, practically no work in this.

4454 (old Chainage)
Red & grey granite with granitoid
veins, much jointed.

(This cut Fellows & Mc Carthy
checked together)

4116 new Chainage

3

4467 (old ch.) 4129 (new. ch.)
Granite showing banding in some
places & with granitic veins. Much
jointed. Red & grey.

Borrow Pit. 4140 (new. change)
4478 (old ch.) Same as last.

4483 old ch. 4145 - new. ch..
Side Hill Cut. Same association
& rock as 4467 (v.e.)

(old ch.)
4490 [^] "Summit Cut", granite. Some
irregular gneissic banding in places.
Very much broken up & jointed
& discoloured along jointage planes.
No traps or mica schist.

4

45-16 Old Ch. New 4178.

Simil red + grey granite. A small proportion banded & might be called granitoid gneiss. No trap. Some surfaces micaceous but no mica schist. Much jointed.

45-19 Old. Small Cut.

Same with last (45-16)

45-30 Old Ch. 4192 New Ch.

Granite & granitoid gneiss about 1/2 of each apart from a large trap dyke (black & distinctly defined) which runs across middle of cut. The outlines of trap dyke as pointed out according to his measurement by Mr McCarthy correct.

5

4535 old Ch. 4197 New Ch.
Granite at W. end. Trap at
E. end. Junction defined clearly.
Side cut.

4550 old ch. 4212 New Ch.
Granite becoming banded
d a granitoid gneiss in places.
No trap. Part of W end of
Cut among boulders, but none
of trap.

4557
~~4563~~ old ch. 4219 New Ch.
Small nose of trap in
a boulder, gravel cut.
See no trap boulders.
(First Big Cut West of
Chisholm River.)

6

4578 old Ch. 4238 New Ch.
Red & grey granite more
gneissic in character than
previously seen. one trap
dyke black & well defined
about 10' wide. Runs across
at right angles.

(East Cut E. of Chistolen River.)
(Some dark masses in granite
see specimen)

4613 old Ch. 4266 New Ch.
Red & grey granite.

4615 old Ch. 4269 New Ch.
Same red & grey granite,
last specimen taken as
representing this cut also.

7

4627 old Ch. 4279 new Ch.
Gneiss. Grey & reddish, some
layers blackish. Well banded.
1 dyke of trap running obliquely
across W. end. width on
line say 25 feet. Black &
well defined.

4630 old Ch. 4284 new Ch.
Boulder cut. no trap
boulders. Granite & gneiss.

4653 old Ch. 4305 new Ch.
Granite slightly banded in
places. usually grey. Rather
coarse grain.

[End of work measured
by W. McCarthy]

8

[Sequencing of Work measured
by Armstrong

4666 Old Ch. 4320 New Ch.
West end black trap. East
end gneiss similar to last.

4671 Old Ch. 4324 New Ch.
Reddish grey gneiss same as
last. (No specimen taken)
Small side-hill cut.

4699 Old Ch. 4352 New Ch.
Small cut with some boulders
but none of trap. granitic gneiss.

4730 Old Ch. 4370 New Ch.
Gneiss grey & red, well banded.
Like all gneissic rocks yet seen
breaks out - without reference to
bedding planes & as far as

9

Excavation for a granite.
At E. end this cut gravel &
boulders of gneiss & granite

4743 Old Ch. 4387 New Ch
Coarse grey granitoid gneiss.

(End of first parcel)

Lean moraine pit to 4808 old Ch.
Sand & gravel in cuts. no rock.

4808 old Ch. 4448 New Ch
Well bedded grey gneiss
East end of cut sand gravel &
a few boulders. Gneiss a small
portion of west end.
(pickit in cut 4805)

4813 Old Ch. 4453 New Ch.
Well bedded gneiss with coarse
granite veins grey & pink

10

17
3
57
2

Last followed by high bank
over muckey.

4819 old Ch. 4463 New Ch.

(Duchesny gives 4461 = 4821)

(refers to Duchesny's plan)

Red & grey granite was a less
banded in places. Much jointed.
Small exposure of trap at W. end.

4825 - old Ch.

Small side hill cut, same
with last. No trap.

4828 old Ch.

Red & grey granite. Trap about
50 feet at E. end.

(?) 4819⁺⁰⁶ old Ch

4481 New Ch

Small mass of red granite W end
about 100 feet black trap. Well
defined. The best granite.

11

at last place found picket
with old chainage marked.

4850 old ch at E. end.

Large cut. at first side-belt,
then both sides. Red &
grey granite except traps about
30' at W. end, & two small
dykes of trap a few inches each
Cutting the granite
Immediately west of bank
Crossing arm of lake.

4873+24 old ch. 45-17 new ch.

Cut begins

Cutting through boulder drift
Boulders chiefly gneiss & granite
a few of trap appear to have
been met with.

(Above Chaining found on
stake)

at East end of this cut - (4864
old ch) ^{4526 new ch} small nose of trap.
Last ^ both found on stakes.

12

4895+50 old ch = 45-39 new ch.

Beginning of Cut.

Red & grey rather coarse lumpy
shattered granite.

4901 old 45-44 new

Identical in character with last,
Pile bridge immediately east of this.

4914 old

Identical with above.

4921 old 4584 new.

Boulder cut. Granite & gneiss
boulders.

4942 old ch. 45-85 new ch.

Nichipawten siding.

Swane granite at East end
boulder cut. Boulders granite & gneiss.

13

4969 old ch. 4612 new ch,
Fert-cut E. of R. R. Mc Lennans
House

Rather coarse red & grey
granite. Some coarse
granitoid veins. Considerably
jointed, Boulder cut at
E. end. no trap boulders,

4979 old ch, 4622 new ch,
small cut. Granite, somewhat
banded in places

4981 + 75 - old ch

Similar but chiefly a boulder
cut.

4997 old ch.

Red granite, some grey
slightly banded in places.

5007 old ch. 4650 new ch

small cut-in dark trap

14

5011 Old Ch.

Cut between two brestles
Red & grey granitoid gneiss
at W. end. Trap at E. end,
junction between the two quite
distinct. About $\frac{1}{2}$ length of
cut in each.

5023 Old Ch.

Red & grey granitoid gneiss
with coarse granite veins.

5037 Old Ch.

Red & grey granite very
slightly banded at west
end, E. end trap as far
as solid rock. Upper part of
cut all through boulder drift.
Junction between granite & trap
well defined.

15

5042 old Ch.

Cut through boulder drift.

Granitic boulders are a lot
of Kof.

5059 old Ch.

Granitoid gneiss at W. end
remainder of Cut Boulder
drift & sand. See 20 traps.

5074 old Ch.

Granite & granitoid gneiss
dark grey. Trap dyke near E. end
abt 10' wide running diagonally

5100

Granitoid gneiss grey & red
coarse granite veins. at 5100+50

dyke of black trap running obliquely

across ^{about 5'} Both coarser & finer

varieties than specimen &

some small areas closely banded

Angus Mc Donalds by Cut.

16

5136 old Ch.

Small cut in granitoid
gneiss.

5150 old Ch

4794 new Ch

Grey gneiss. very distinctly strat.

Partly in solid rock & partly
among large boulders.

(This is the first cut west of
Grassett Station.)

5186 old Ch.

4827 new Ch

Dark grey very regularly banded
gneiss. Small side cut.

First east of Grassett.

5209 old Ch.

4850 new Ch.

Same with last. Somewhat
fissile. mica schist?

Granite segregation veins.

17

5261 New Ch. 4 800 New Ch.

5224 Old ch. 4885 - New ch.

Grey well bedded gneiss
like last but somewhat less
micaceous. Numerous coarse
segregated granite veins.

About 200' cut by last trap
small cut. Trap & gneiss about
1/2 of each.

5-261 Old ch. 4898 New ch.

Long cutting in grey gneiss varying
from granitoid to well bedded but
all for practical quarrying
purpose = granite. Low sep. of
last trap 25' long at W. end. One
small dyke 4" wide runs across
about middle.

a good many granitoid
coarse veins.

18

$$\begin{array}{r} 22 \\ 3 \\ \hline 66 \end{array}$$

5284 old ch. at 708 mile

Grey gneiss like last.

Small side cut on edge of lake

5319 old ch. 4953 new ch

Rather heavy cut

Grey granite & similar grey
granitoid gneiss. Many coarse

granite segregations. One dyke about

12 feet wide running obliquely across

Trap block & well defined as usual.

(Found a marked picket in this cut.)

(or old chainage)

5328 old ch 4966 new ch.

Grey granitoid gneiss.

5346 old ch. 4983 new ch.

Heavy cut. Granitoid gneiss grey

or pinkish with numerous

pink segregation veins. Two dark

trap dykes near E. end one abt. 12'

one about 70 feet wide in cut.

(Found red picket marked 5341)

19

5392 old Ch. 5028 new Ch.
Small cut with boulders. granite
& gneiss. no trap.

Beginning of Conner & McSennan's section.

Maggie station.

5440 old Ch.

Deep gravel cut. no solid rock.
no trap boulders seen

5465 - old Ch.

Gneiss & hornblende schist
about 1/2 each. Part of this
small cut might be called
mica schist

[This is a gneissic hornblende schist
quite different in character from
the Huronian hornbl. sch. described later]

5480 old Ch.

Rather fine grained grey gneiss
pale banded with dark.

5493 old Ch.

Grey gneiss. Trap dyke
about 27 feet wide, toward
E end becomes granitoid!

20

5-522 Old Ch.

Grey gneiss light & dark
same layers with much mica
& might be called mica schist.
(Say about 1/3). No trap.

5-527 Old Ch.

A deep cut. Grey fine grained
rather dark gneiss. One dyke
trap of usual character well
defined but running very obliquely to
Cut. About 70' wide. Runs
through deepest part of cut about
125 feet. Second trap dyke near
E end where the cut about 12' deep
runs obliquely for about 75' in
the cut. Some of the gneiss
in this cut locally schistose
but no considerable part
would be rightly classed
as mica schist.

21

5566 bed Ch.

Small boss of trap at W. end
rest of cut gneiss like last.

5571

Pale grey rooster granitoid gneiss.

5580

Grey gneiss, like last, parts
somewhat darker.

22

x = mention in "notable instances"

26. June. From about 4 m. E of
Maggie to about 1/2 m. E of
Masonable station

5710 5615 * 5628 old Champs
Boulder & gravel cuts.

5635 Grey gneiss. a few thin
layers of mica schist interbedded
but these occupying a very small
part of the whole. no trap, & no
rock which might be mistaken for
trap.

5653

x ordinary grey gneiss, no trap
& no micaceous layers like those
in last.

From last to here no rock cuts.

5710 grey well banded gneiss
no trap.

23

x 5724 Grey gneiss with some
dark hornblende layers. Granitoid
veins, no trap.

5733 5740 Small zone of gneiss
in one place. No trap or mica schist.

5742 + 5743

Grey gneiss same with 5724
latter small cut chiefly among
gneissic boulders.

x 575-8. Cut among boulders. One
small zone of solid rock. Boulders
granite & gneiss.

x 5788. Rather massive grey gneiss
like preceding.

5798

Light & dark grey gneiss, the dark
layers generally hornblende. Much
like 5724.

24

x 5810 to 5816 all massive grey
gneiss.

5817 to 5820. all same as last.

5820 to 5877 Small cuts. one
with gneiss. no solid rock in cuts
except above.

x 5877 to 5885-. massive coarse
grey gneiss at one place. most
of cut through boulder drift.

x 5886 to 5888 2 small cuts. last
shows some gneiss at bottom.

5902 to 5905 1/2 to 5916

small cuts in boulder drift & among
boulders. Boulders granitic &
gneissic. no trap.

5920 to 5924 Cuts in boulders
which are granitic & gneissic.
At last figure small ditch cut in

25

gneiss with nose of trap

5937 6948 small cuts among
granite & gneiss boulders.

x 5953-

Pale grey gneiss, well bedded
& very uniform in character.

From east to cut at 6042 a
few cuts in gravel & boulder
drift. No bed rock

6042

x Massive grey granite. E. end of
cut well boulder drift with similar
boulders.

+ Several cuts in boulder drift +
gravel. no rock cuts. see w. traps
boulders.

† 6103 here granite same as last locality

26

6123 Grey gneiss generally rather
coarse & with a number of segregated
x granite veins. Quite similar in
character to gneisses west of Otter.

6131. Chiefly among boulder drift
x in no trap boulders they being of
gneiss & granite. Part of cut in
grey gneiss.

6142 Cut in gravel & boulders
boulders gneiss & granite

6150 Grey gneiss well banded
much pitted & distorted.
Gneiss is pinkish in places, much
of cut through boulder drift.

6177 Cut in grey gneiss & hornblende
schist. Probably about $\frac{1}{3}$ hornblende
schist. Some surfaces of schist
micaceous.

27

x 6184 Chiefly boulder drift.

Some gneiss.

x 6204 Grey gneiss in which some thin seams of mica schist occur

Σ, end of cut (low) in black trap.

Junction of this with East well defined.

x 6233. Cut chiefly in boulder drift.

Small nose of mica schist near W. end.

6258 Grey gneiss

6260 grey gneiss rather massive but highest part of cut in black trap which runs across say 40 feet wide.

6275 mostly solid rock trap, some granite seen on each side.

From last some cuts in boulder drift but with exception of one small nose of gneiss no rock cuts.

6390 Cutting in tough hornblende schist & trap about 1/2 of each.

28

6450 At W end grey granite.
Central & deepest part of cut in traps
& end grey gneiss.

6470 Cutting mainly or altogether
in boulder drift

6477 Mainly fine-grained tough
hornblende schist. A little gneiss
at E. end. $D 55^\circ E \angle 60^\circ$

6492 Long cut in dark hornblende
schists. No traps. Small quantity
of fine-grained gneiss or granite
Some surfaces showing mica but
no well defined mica schist.

6497 & 6500 identical in
character with last.

6515 W end of cut small mass of
diorite. Middle & greater part of cut
fine-grained granite. E. end gneiss
& hornblende schist.

29

6536 Small cut. low nose of
hornblende schist in it.

6545- at W end shattered dioritic
trap. Greater part of cut hornblende
schist, in places becoming
gneissic.

x 6563. Cut in hornblende schist.
often almost diorite schist

6567 Same with east

+ 6595 Heavy cut in Hornblende
schists. one mass of trap at
alross near W. end about 25' face
(not very readily distinguished
from the schists) D S 20 E \angle 60° 6 vert.

6600 same hornblende schists

6610 " " "

6616 Granite. one small trap
dyke about 8" some hornblende
schist at E. end.

30

- x 6630 Long cut in red granite.
Two trap dykes cutting across one
about fifty feet wide the other quite
small
- x 6660 Cut in red granite same as last.
Black trap at ^{the first part of cut} E end & junction between
the two very clearly defined.
- x 6810 Long cut in slaty diorite +
trap. These rocks are distinguishable
from each other with difficulty.
- x 6887 Greenish grey diorite trap cut by
some trap dykes. This at W end.
variety of schists & slates, hornblende
micaceous & amphibole or felsite.
- 6943 Dioritic trap. Rather massive
& dark in colour though
crystallization often moderately
coarse. [Specimen not so dark
as most]

31

x 6760 Long deep cut. Compact
greenish to greenish-grey trap throughout
with exception of a few red
syenitic or granitic veins which
are however quite unimportant
in total amount.
The rock in this cut all very uniform
in character.

x 6995 massive green-grey trap
fine grained probably diorite. Toward
East end approaching felsite

x { 7010 White granite.
7015- pale grey or white granite
7030 " " " "
7070 Missouabe station
apparently all similar granite
(off line of sq. small bosses
show)
+ 7075 Similar granite. Rather coarse
grained

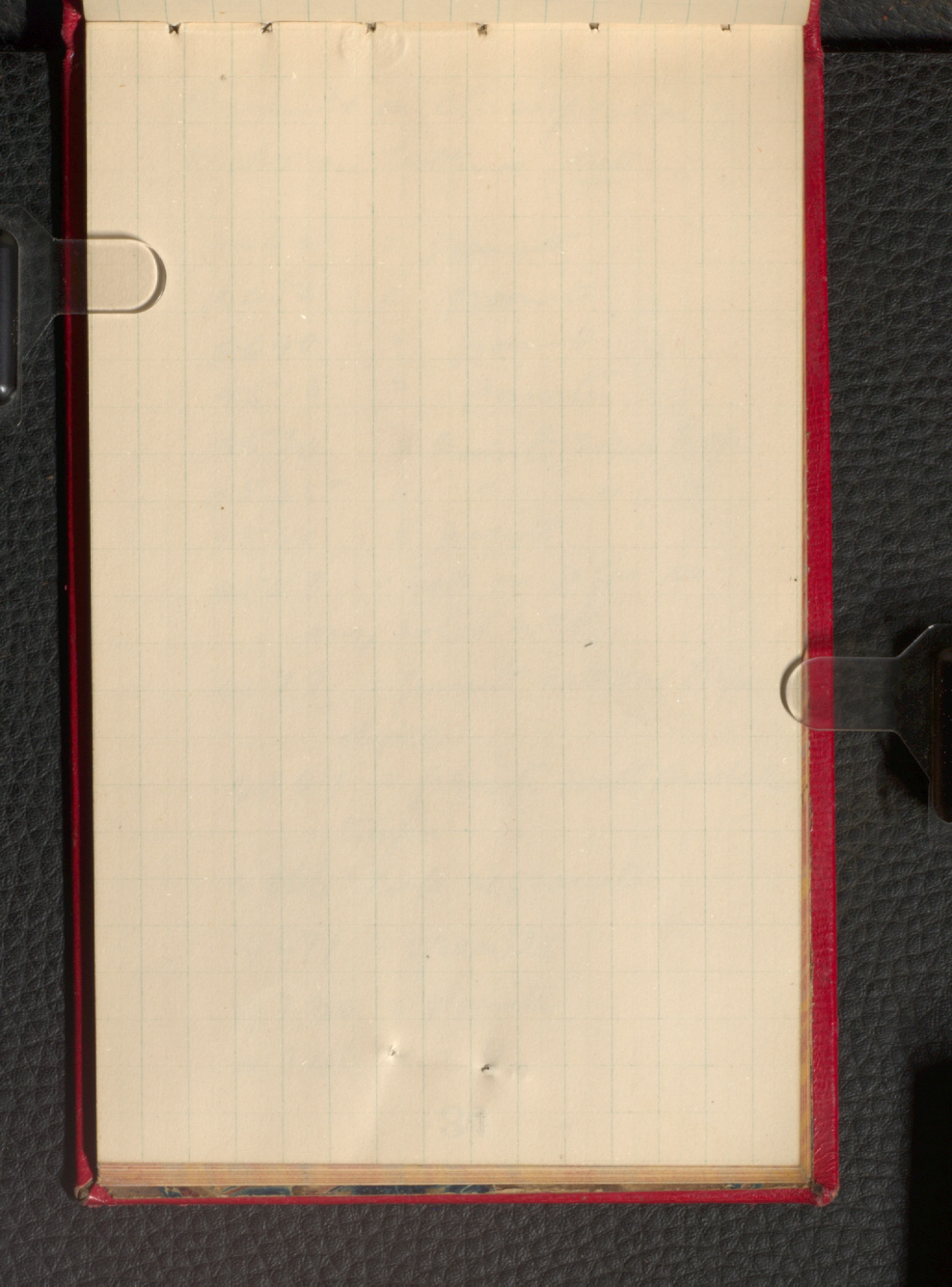
32

x 7088 Same granite

+ 7092 " "

x 7105 - Last Cut on Cornice x
McLennan's Section. Massive
greenish-grey diabase Trap.
Small intrusion of red
syenite or granite at E. end.

33



34

Remarks on classification of
rocks in Cuttimp ante.

- 4446 = Granite
4454 = granite
4490 = granite
45-16 = granite
45-30 = granite some trap.
45-35 = " " "
45-50 = granite
45-57 = trap in so far as
any solid rock.
45-78 = granite with one trap
dyke.
4627 = granite with one dyke
trap.
4666 = trap & granite.
4671 = granite
4730 = granite
4743 = "

35

4805 = granite
4813 = granite
4819 = granite. a little
trap at W end.

4825 = granite
4828 = granite & trap.

4819+86 Granite & trap

4850 = granite & trap dyke

4864 = nose of traps.

5007 = trap.

5011 = granite & trap

5023 = granite

5037 = granite & trap.

5059 = granite

5074 = granite & trap dyke

5000 = granite with one small
trap dyke

5136 = granite

5150 = granite

5186 = granite

36

- 5209 = granite ? mica schist.
5224 = " " " "
5261 = granite, trap dyke
5284 = granite
5319 = granite, one trap dyke
5328 = granite
5346 = granite 2 trap dykes
5465 = granite & "mica schist"
5480 = granite with some
- mica schist (?)
5493 = granite, trap dyke
5522 = granite & mica schist
5547 = granite, 2 trap dykes
(A few feet here & there
along this cut might be
allowed as mica schist.)
5566 granite & traps
5571 granite
5580 "
5635 = granite, 10% mica
schist (?)
5653 = granite.

37

5710 = granite

5724 = granite

5742 "

5743 "

5788 "

5798 "

5810 & 5816 granite

5817 & 5820 "

from loc to 5924 any solid
rock met with = granite

5924 granite & traps (unimportant)

5955 = granite

6042 = granite

6103 = granite

6123 = granite

6131 = granite

6150 = granite

6177 = granite $\frac{1}{4}$ to $\frac{1}{3}$ =

"mica schist"

6184 = granite & mica schist.

6204 = practically all "granite"

inconsiderable proportion of mica
schist. one dyke traps.

38

6233 = mica schist
(Small nose)

6256 = granite

6260 = granite & trap.

6275 = trap with a little
granite

6390 = trap (part might
possibly be classed as
"mica schist")

6450 = trap & granite.

6477 = trap (~~part~~ might
possibly be classed as
"mica schist". Small
quantity of granite.)

6492 same as last-

6497 & 6500 same as last

6516 = granite with trap at
W end, "mica schist" at
E. end

6536 = more of trap (?)

6545 = trap. part might perhaps
be classed "mica schist"

39

6563 = "trap"

6567 = "

6595 = traps

6600 = "

6610 = "

6616 = granite, small
quantity of traps

6630 = granite 2 trap dykes

6660 = granite, trap dyke

6810 = traps

6887 = W end trap, 2 end

"mica schist"

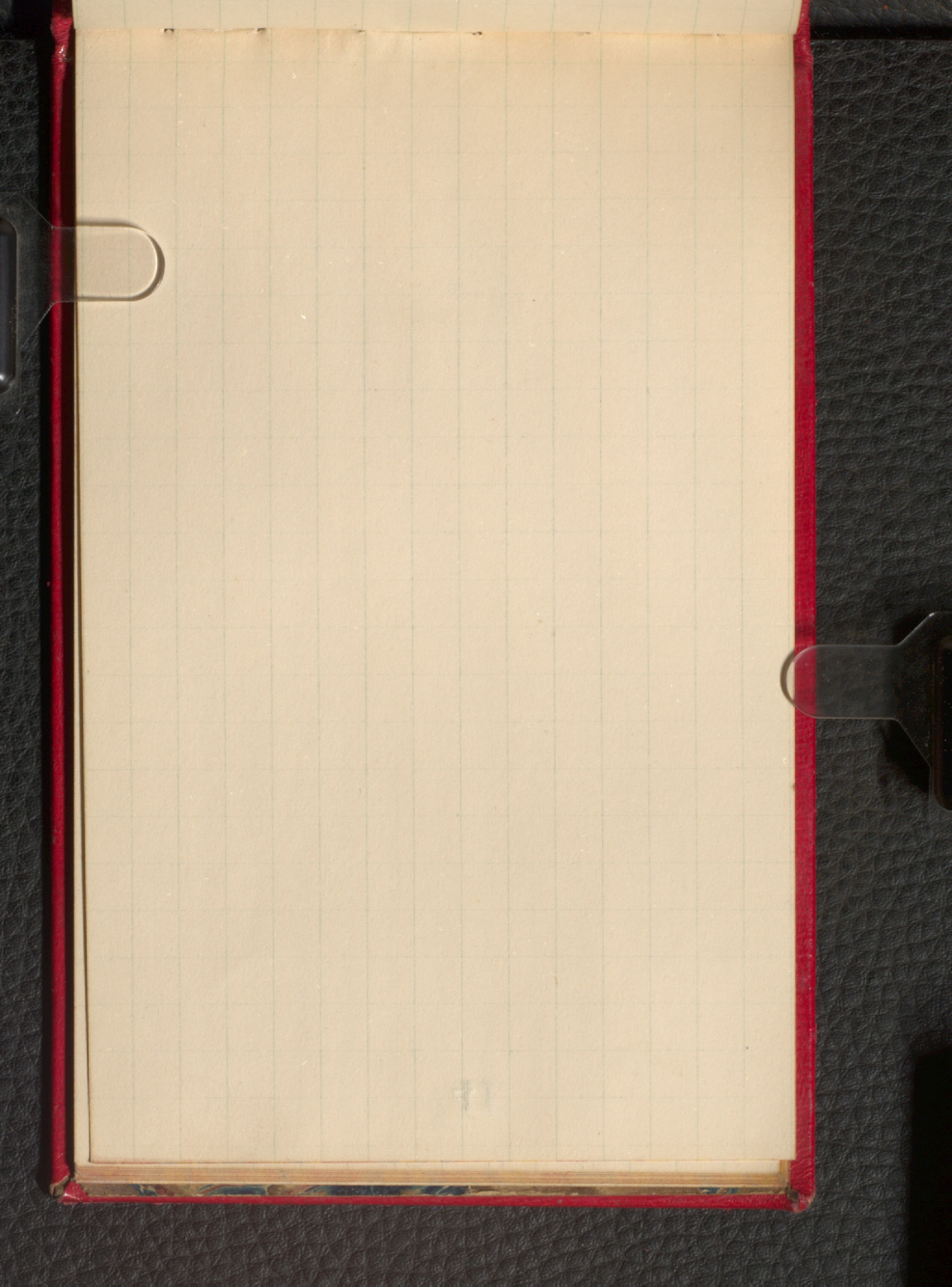
6943 = trap

6960 = trap

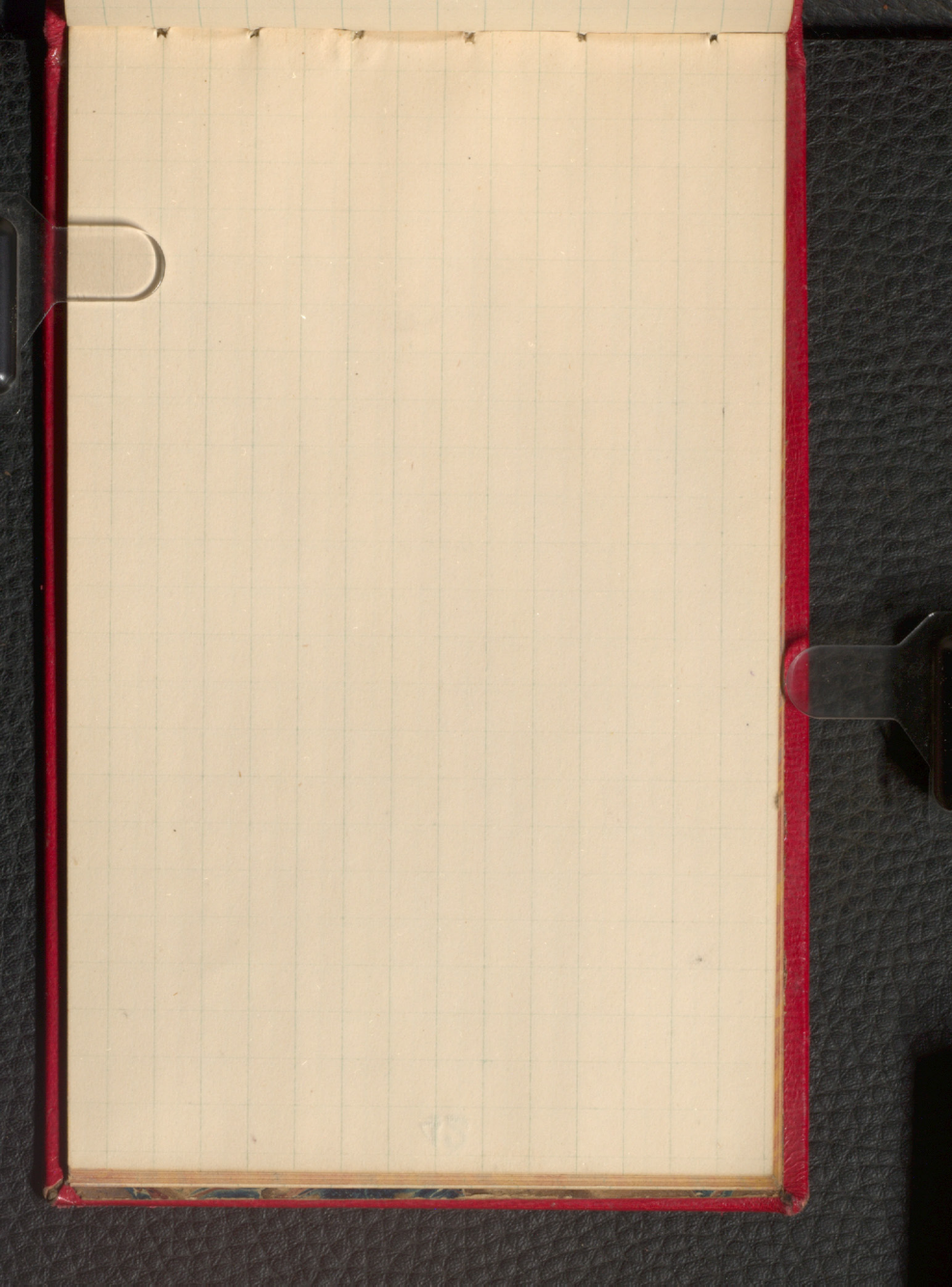
6995 = "trap"

7105 = traps

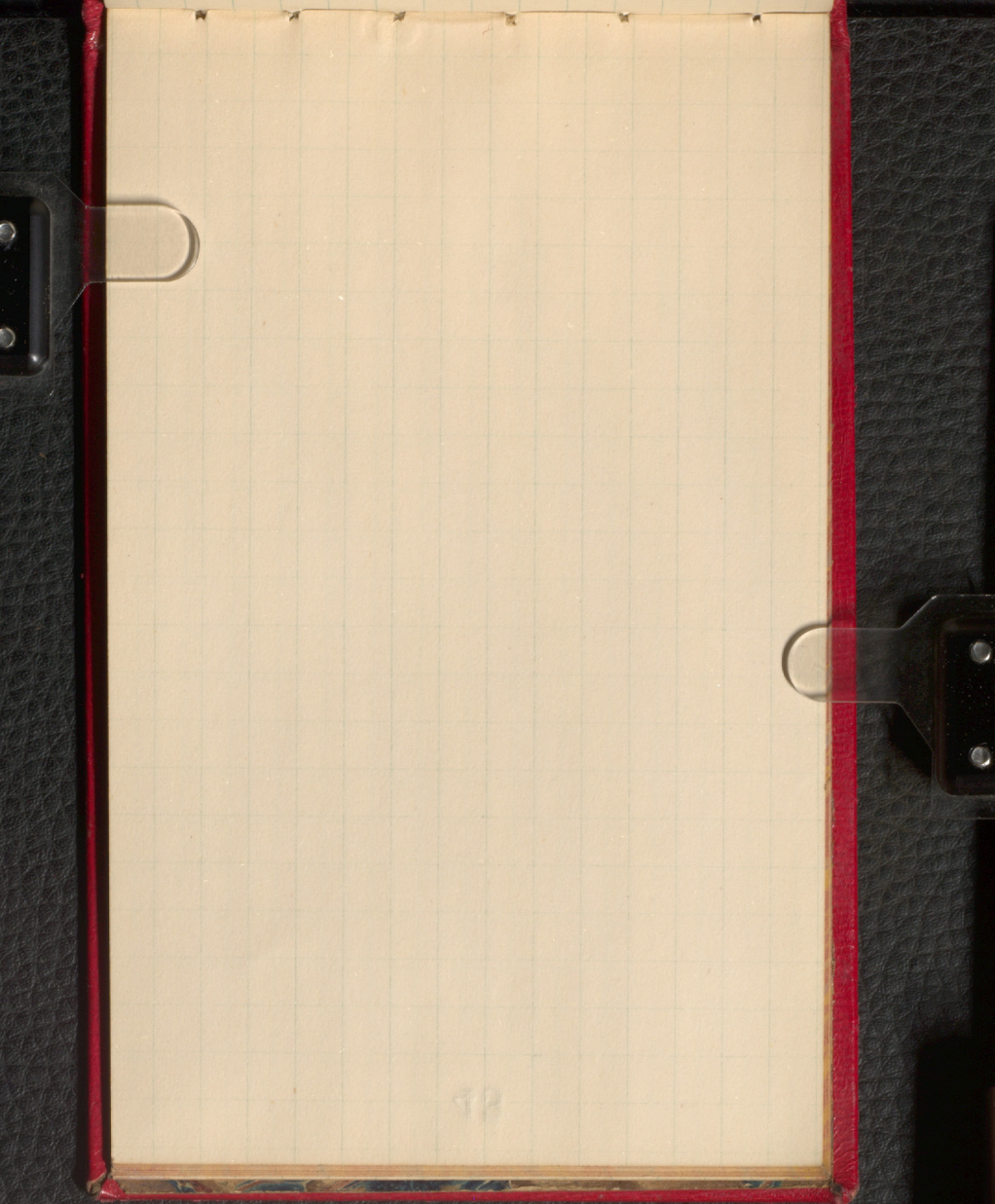
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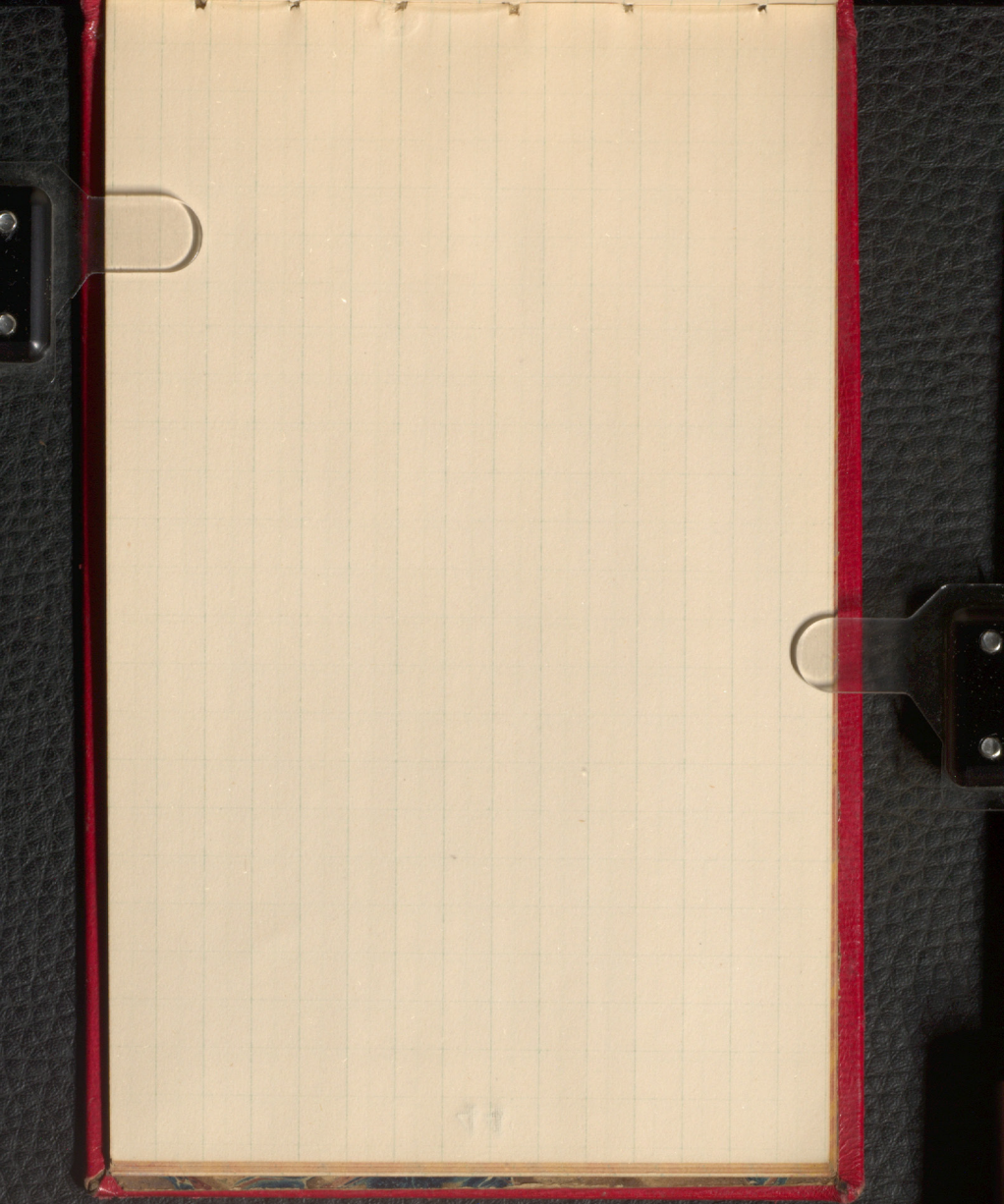
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42



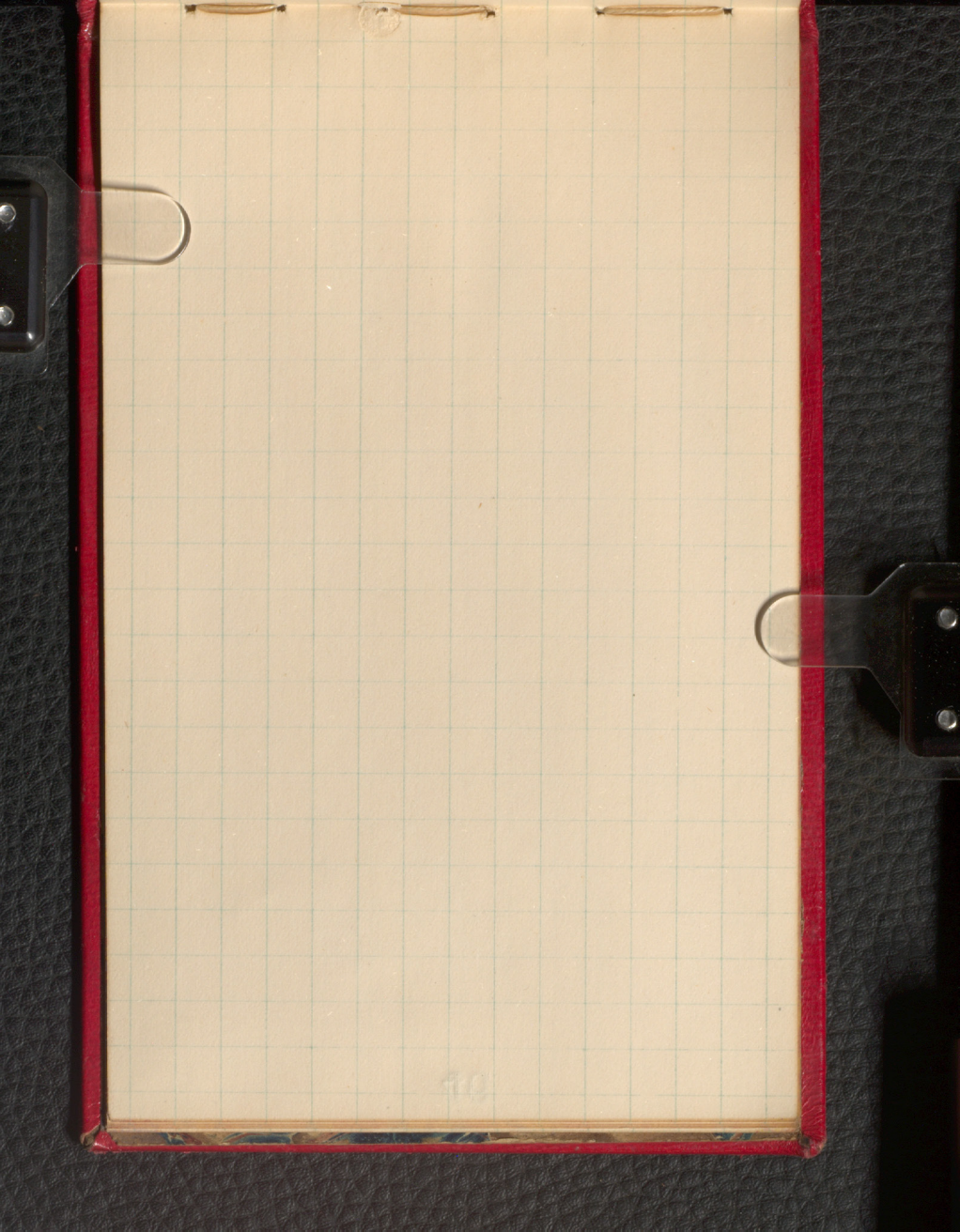
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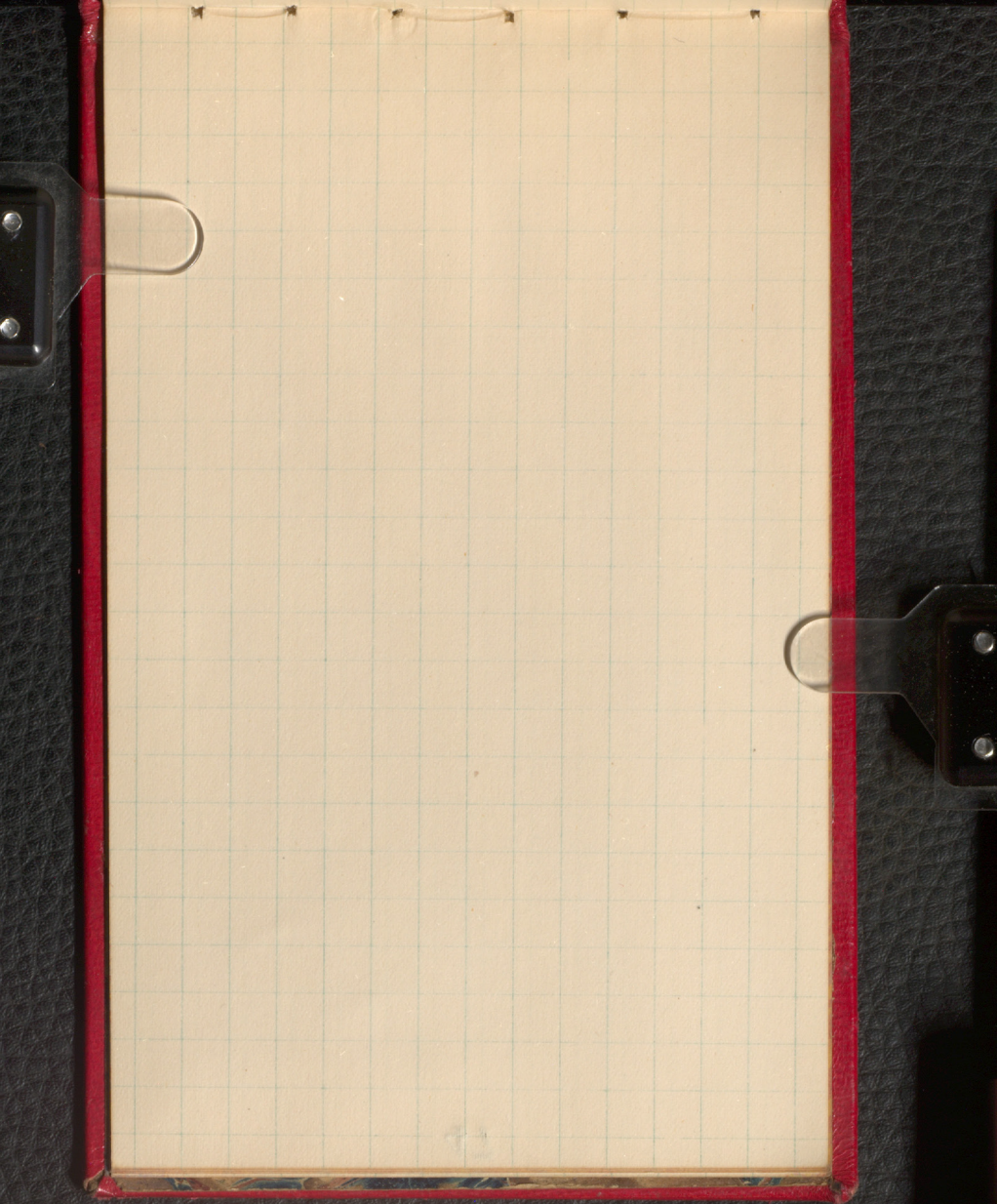
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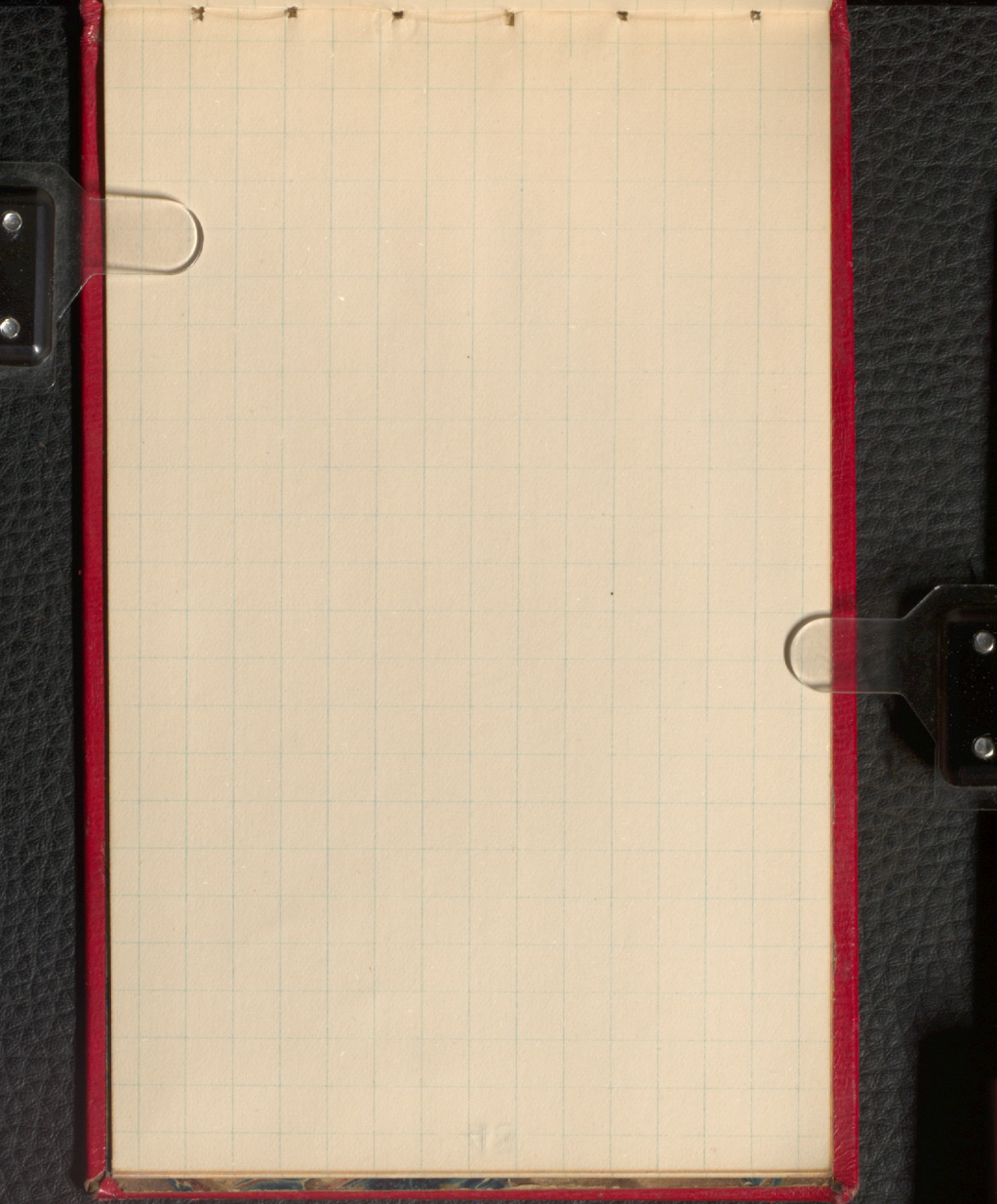
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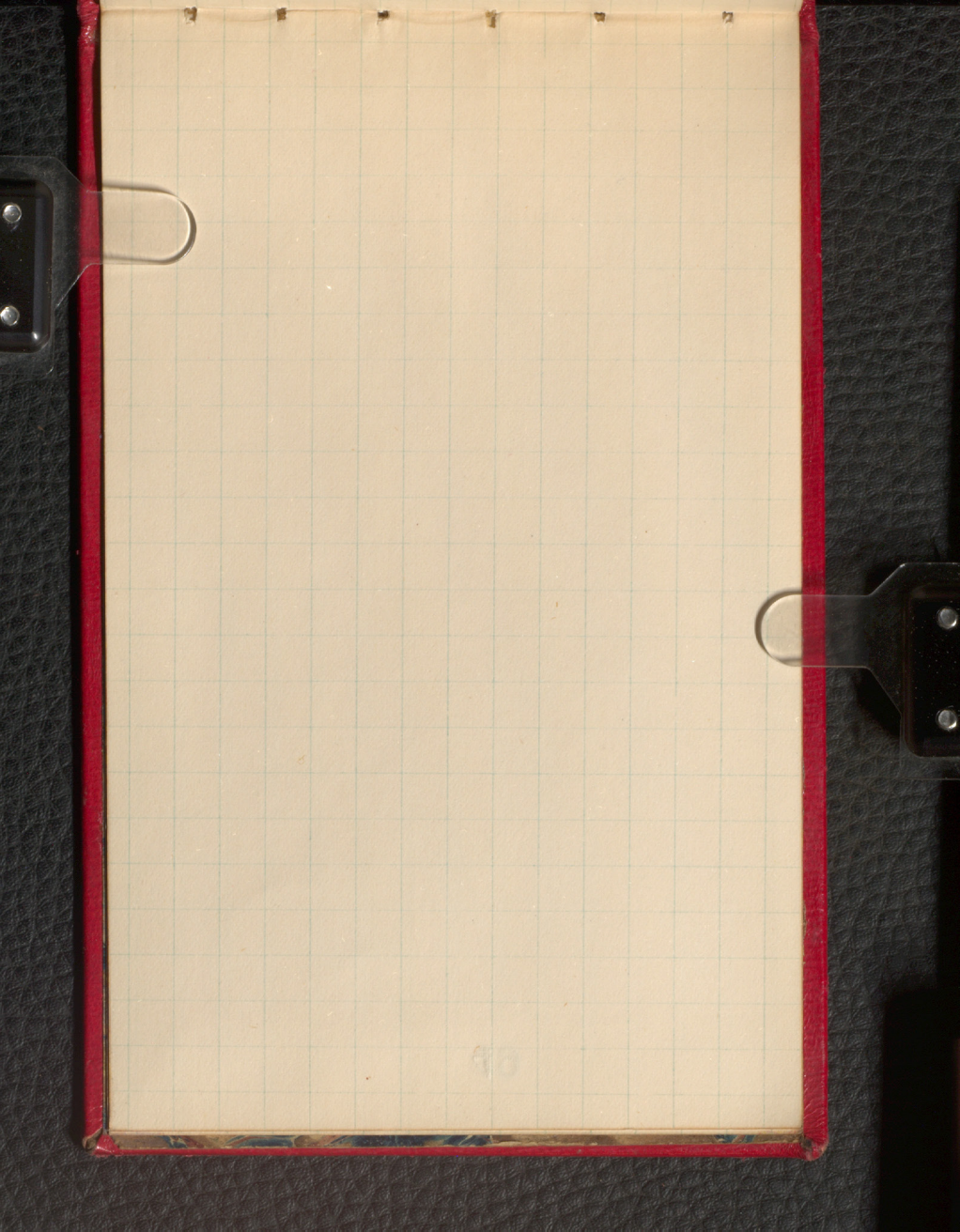
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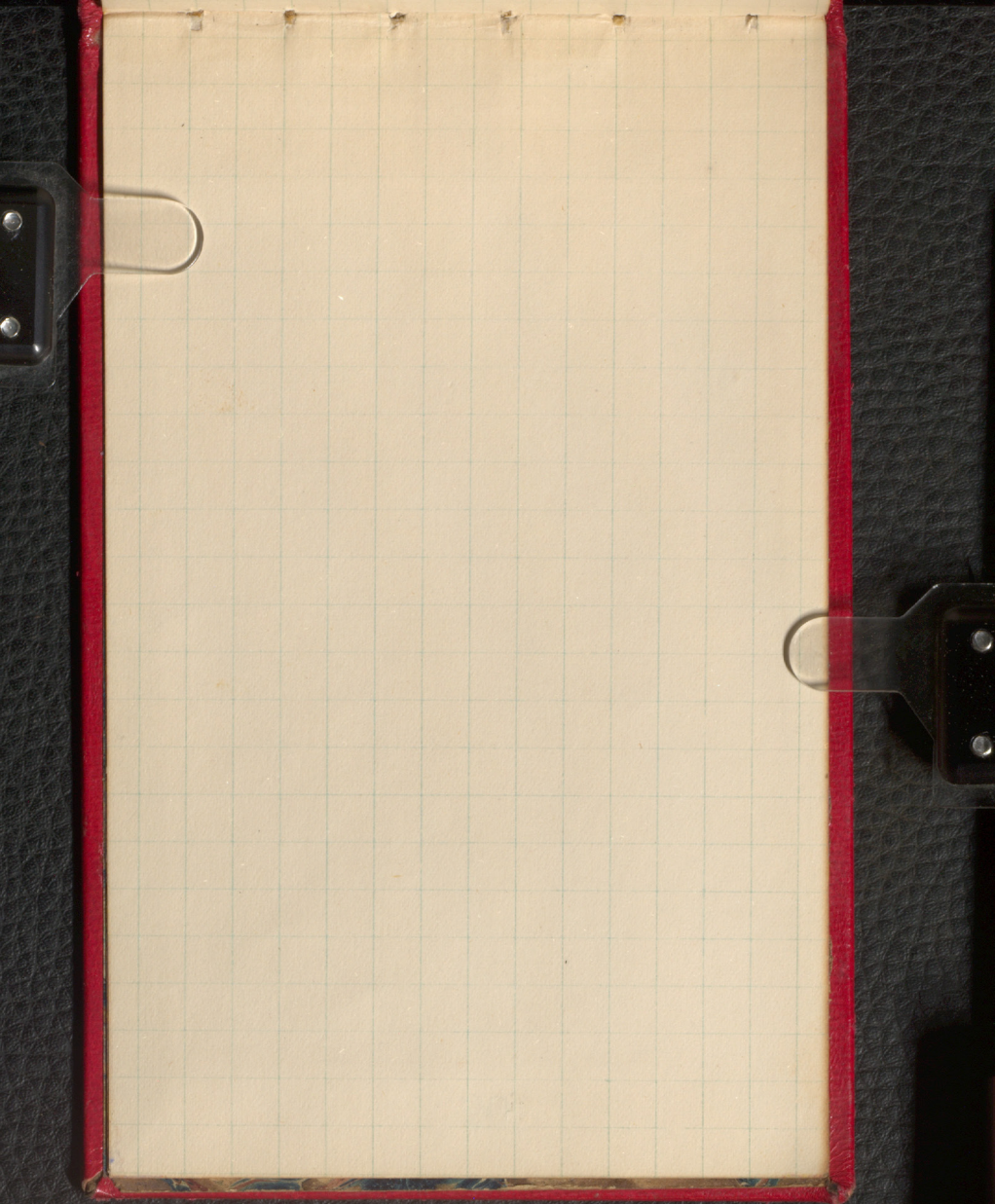
47



48



49



50

