

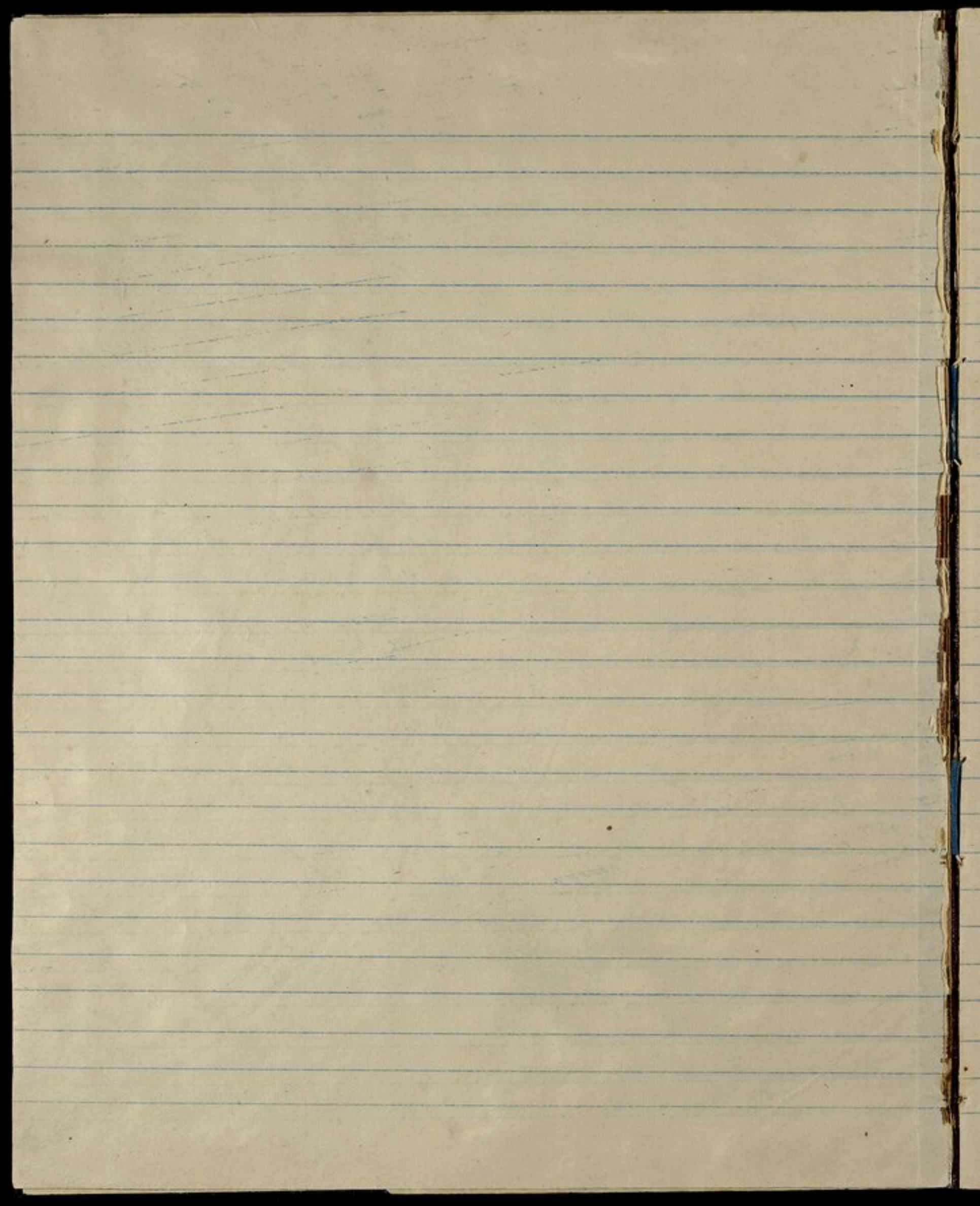
1949 II

14. 9. 49 - end.

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Bhutan II.

1949



14th September. Halt at Pangotang. Wet all day. Pasang & Yundon went off for 3 days to Kantanang. The only thing I know I want from them is seed of a primula I called reticulata which was very pretty. But it will likely not be ready yet. We can wait longer though for Kantanang. It is not important, & the other places must take preference. HH is making me very embarrassed. He has now sent a very fine Bhutanese blanket. I don't know what to do with it & had told him I did not need any bedding at all. I fear Hicks & I may have to carry a good many unwanted things away with us - unwanted by me anyway. Pangotang is a regular Piccadilly Circus today, with all the droppas coming back from the Itela. Tibetans too are camped beside us & their way back over the Nintankarchung La. HH said it was a success, they had good weather. He tells me Danong is still not fit, which presumably means that he cannot go to Ludlow now, but will have to join me when he is alright. It will be a sad blow to Ludlow, although I believe Konyana has seen almost all that Danong saw on their way East.


15th Sept. Halt. No yak turned up today, so I did not go out to Tolegang as intended. Very heavy rain again last night, & a good deal today too. Sat in camp all day practically, & did nothing but write a few letters & air the seed & bulbs.

16th Sept. Halt. One of the wettest days we've had, from morning till night, & all last night too. However I went up to Tolegang again to check that I knew where the Athardia is. There certainly is masses of it, & I skinned three seed would be ripe by 1 Oct when I go again, as it is a high altitude plant. About the same place, in the middle of the flat place there, there is masses of *P. macrophylla* & *macrocarpa*. Altogether that place is very good. This spring I haven't visited it before. I wish I had seen well worth while in August. Pasang is back here with practically nothing. Seed of a *Hebe sinensis* from the Lubsing La, & a nice wine coloured

To be collected from base Paupstang on return from Waitang or Marlung.

- X White Sax 19696. From cliff opp camp. Or from Tolegang, low cliff.
- X Gentian 19706 " sandy slope opp camp
- ✓ Androsace big 18974
- ✓ *Cypripedium hirsutum* 18970 just below big cliff, lowest towards river.
- ✓ *Smilax* 18992 = 19698.
- ✓ *Prim. alpicola* v. *luna*. 19103.
- ✓ *Prim. umbrabilis* 19128.
- ✓ *Potentilla curviseta* 19294 beach.
- X *Gentiana Elwesii* 19209
- X *Polygonum big* 19715 roots.
- X *Aconitum* sp. 19734 roots.

To be collected from Tolegang

- ✓ Roots or seed of big Aconite. 19710 1st dropca above forest.
- ✓ *Prim. umbrabilis* 19332.
- ✓ Sax. yellow. 19305 Growing with *P. umbrabilis* on scree bank
- X Sax? white. 19696 On cliff above *umbrabilis*
- roots ✓ Aconite v small 19727 in scree.
- ✓ Sax  19731 wing leaves. Above 1st dropca run.
- X *Pleurogaster*. 19728. by river Tolegang.
- ✓ " v big 19729
- X *Delphinium* 19724 papery
- X " 19725 one 1st seen.
- Sax. small leaves 19720 already taken. more below cliff.
- Roots ✓ *Gent. aurea* 19721 1/2 in beyond, on scree.
- Roots X *Atardia* 19716 L hand valley cliff, on left when level. to left of cliff.
- Gent. multiflora* 19347
- ✓ *Prim. mac.* v. *mac.* Near *Atardia*.

acornike are about all for their three days absence. Pong Yundon has wuarhosa again badly & that has kept him from doing much. I took nice roots of yams *P. macrophylla* from high up, which take them home. Again I saw a fine herd of buntel, got a cine picture of them as they went up the hill & over the skyline. They were really frightened. Buntel are obviously not animals of the dry Tibetan plateau only. There must be thousands in Buntan, & in very wet parts too.

17th September. Halt. Very wet in the morning, very wet again all day today. One would say it was much wetter this month than July was, & I wonder when we will have a definite let up. Stayed in camp & developed pictures & packed seed & bulbs.

18th September. Halt. At last some sun again. There was remarkable activity in camp as a result, & we are all feeling & looking considerably clearer than we were. Ngundup came & asked me if I would write to ~~the~~ the more butter, as it would only last a few days now. I refused, seeing he was waiting for everyone to go up till 7th October. I really don't know how he can dispose of all the butter he does. I told him he could take & divide up one of the two huge 10 lb lumps I had. He told me I had finished one of these myself already - at which I was very angry with him. I have had one small tin of about 1/2 lb so far. I do hope that I can get Changchuk again instead of this man when we get back to Buntan. None of us like him I feel, although he arranges transport very well. But so does Changchuk. Am sending off a mail today to HH & Kalimpong. I looked today for seed of *Sorbus ursinica* on 50 trees or more, & I found one fruit only. They were here late flowers, but that such is no reason why there should be no fruit. Perhaps at Waitang where they flowered first, there will be something to be found.

19th Sept. Waitang. I fear we will get little here. Seed is not yet ripe, but we

could be everywhere at once. We got very little today - some *P. elongata*, an *Arabis*, *Amelanchier* not quite ripe, *Cypripedium tibeticum* ditto. *Sorbus ursina* up here has masses of fruit. From about 500-600 fruit taken I am keeping 11 only. The rest all have a small caterpillar in them, & some of the 11 may have also. Otherwise too, seed is difficult here, if the plant grows on a cliff, one can get seed; if not the yaks eat it. *P. elongata* has been eaten in a place there was masses, & all we got was what remained on a cliff. The most interesting thing today was an *Aconitum* ^{bulbiliferum} 19752, taken once before, which has bulbils in the leaf axils. I did not know this happened in *Aconitum* before, & certainly have seen it in no other species than this one. Very heavy rain last night again & when we left today, but it has been mostly fine today, but with little or no sun. We mean to go up to the pass tomorrow unless weather very bad. It has for very much colder up here now.

20th September. Hall. After a bit of rain at night & a thick mist in the morning, this turned out to be a lovely day, some on which we could well have gone up to the Nunda Karchung La. But we stopped on the way several times to get roots of *P. strumosa*, to take plants of *Gentiana Veitchiorum*, which into a nice sunny day, were all then very best. Even the yaks cannot dispose of all of them, though they do them best. For that reason, one finds banks which are under cut and safe to walk on, have the finest snow of this *Gentiana* - yaks done for them to pass. The lake below the pass was ~~very~~ beautiful indeed. It is green, & the snow behind with a blue sky make a wonderful setting. I tried to get some *Gentiana* as a foreword to

this, in the same way as I did with *Mec. simplicifolia*. Hope it turns out well. The whole scene is too big for a cine camera. There are a good many birds now on migration from Tibet. I saw hundreds of warblers, & two Afghan redstarts today. And I must have seen 20 this hills, but they are on migration through. We did not do work with seed again, & certainly more from seed this year will come from Marlung & over the passes to the West.

21st Sept. Halt. Rain at night, but a lovely day of sun & cumulus clouds. I stayed in camp to deal with yesterday's seeds, while Yundun & Posang went up Tamagoma valley to the NE to get *P. Careana* & the 8 plants of white *Careana* worked by Yundun when we were here before. They have just returned at 6:00 pm when I was beginning to be a bit anxious about them. Boulder scree is dangerous: one can very easily make a false step & have a nasty fall. It was too late for me to examine any seed brought, but they have got all the white *P. Careana* ¹⁹⁷⁶⁶ & another basket of the usual *Careana* as no seed is ripe. They also found the very fine *Phoradendron* ^{warbler} which is woolly all over, & which we took twice at Marlung, but never saw in very good flower. Today they have brought better seed & fine flower. It is a beautiful time. I have not been able to see if the seed is good or not. Otherwise just a *Sax* & a *Saussurea*, & a few odd very small primula roots - perhaps *P. cernuina* & *P. walshii*, which I may take too. As they have had such a long day, we will not go out tomorrow, but I will do the seed & get the roots properly packed. Yundun returned with a very sad head, which he said he had most of the day.

MB

Warbler
19764
p. 146

22nd ~~Sept~~ Halt. Stayed in camp. Rain & sun over now indeed, with a strong wind. Letters came in from HH with food etc & a mail from Hicks, Yundun & Kalimpong, but in some strange way no letters from Betty. Hers must have

gone away somewhere, as Tobias's letter was dated 4 Sept from Kalampong, she had heard twice from Betty in Calcutta by then. I think the Arts. Camps must have made a mess of things. We have now all the plants we want from here, but will see if anything is to be found tomorrow in the Dirupnang valley. The Phardria seed which Pascal brought in yesterday is good & there is lots of it. I do hope it will be a success. The scent is one of the best things about it, it is very strong & persistent long after flowering. Hicks tells me he will be in Brountray on 5th Oct. which is very much earlier than I had expected. But he had not had my letter from Brountray when he wrote, so may change.

23rd September Haek. Fine till about 2.0 then very heavy rain on & off. Although there is still lots of rain, there is a feeling of the end of the monsoon, but no sparkling days yet. Now snow falls at night on the hill tops now. We went up Dirupnang valley today, & I was surprised how easily I managed up to the pass which I had never seen also to reach before. How unfair I must have been when I first came up. Now, that height - about 15000 - 15500 - does not seem to worry me at all. We looked over the pass & saw only perhaps 1 1/2 miles away, the place we had reached from Kautanang one day. Then the locals told us that it was very far to Waitang, two days would be necessary & so on. Actually from here I think one would reach Kautanang in 7 or 8 hours, & there should be no difficulty. It goes to show how very hard it is to find one anything definite about routes in Broutan. We found today any amount of the very fine *Acrotiche* 19771, & both

borderline
p. 145

plaid
Acrotiche
19771

more specimens and also some roots. I have now so many roots to send home by air, that I wonder how many loads there will be, & also how much it will all cost!

24th Sept. Panyobang Fine morning, & a bit of rain after midday. There really is precious little sign of the end of the rains, although I keep on hoping there is. We are, in a way, on our way back home now. But still there is one place, Marlung, to visit, before we can say we have turned round & started back. But everyone obviously feels that things are winding up. I had a request today from Pasang, from Ngudup & Yuedru that I should take both to Kalimpung. I don't mind taking Yuedru, who is a good & cheery lad & a good worker, but I hope I won't have to take Ngudup one day beyond Bonntrang. I do not like him, & except to arrange transport, he is useless. I am writing to HH tomorrow to ask for Changchuk, & to give him our final dates. Today I developed Hicks' photos. If only he had taken my advice at first, all his photos would have been like those which are good. But he would not, & considered he knew better. Tompkins' photo of *P. edurnea* is quite good, much better than Hicks' first efforts. It is a great disappointment to me that in 6 months he has only taken 48 photos altogether, in spite of having lots of film packs available. There were so many photos he could have taken.

25th September. Sent off Doji ~~to~~ with a mail to Hicks, HH & Kalimpung & paid him Rs 24/-. We then packed up a tsang with rooted plants, each rooted plant in its own little basket inside the big one. The whole time now is ready to go to London, except that I keep there with a few more plants added from Marlung, & then more again at Ritang.

B.W. 14

- 1 Gent. Veitchorum from above. 19759 20/9
- 2 " " on bank. " " "
- 3 " " " " " " "
- 4 " " lake & snows behind " " "
- 5 Ngadap - Nangre.
- 6 Acorium sp. 1977. 23/9
- 7
- 8
- 9
- 10
- 11
- 12

NOT taken

Dufay colour. 23

- 1 Polygonum vacinifolium. Tolong 16/9
- 2)
- 3 Phordia 19716 16/9
- 4 4. Sent 18/9.

Dufay colour 24.

- 1 Gent. Veitchorum 19759 20/9
- 2 " " " " "
- 3 " on bank " "
- 4 " " " " " filter " "
- 5 " " " " " "
- 6 " " " " " lake behind snows "

Kodachrome 30.

- G.S. Sasang near Chachku la. 13/9.
- Polygonum vacinifolium 16/9.
- Burkel above Tolong in style. "
- Phordia. 19716 " "
- Gleichenia aurea 1972. camp. 18/9.
- 5' out of focus. view. // Sent 18/9.

Dufay colour 24

- 7 1)
 - 8 2 Acorium sp. 1977. 23/9
 - 9 5
 - 4
 - 5
 - 6
- add to 24.
24 19 pieces sent 25/9

Kodachrome 31.

- Gent. Veitchorum 19759
- " " on bank, with ferns etc. All on
- side green lake. 20.9.79
- Yak, snows behind.
- " " " "

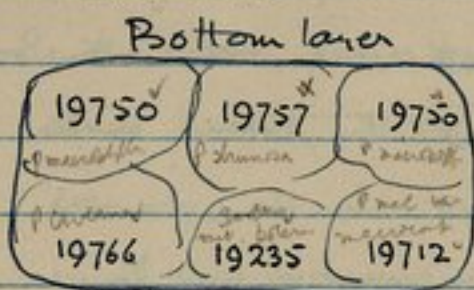
Sent 25/9

Kodachrome 32.

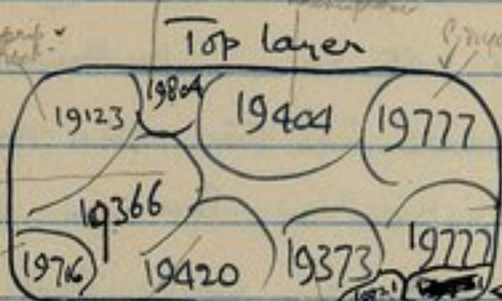
- Gent. 19759 by stream. camp. Waitan. 21.9.
- Acorium sp. 1977. 23.9.
- Drogya women spinning wool, school. 26.9.
- Kangkar pinesum 27.9.
- Yak & " " "

Each plant is labelled with a tin label which has been oiled, & they are packed in tin order

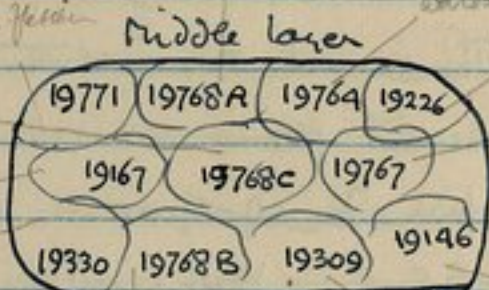
N° 1



Maus back here



Maus back



Maus back here

The top story is as yet empty, but in it will go *P. Leonardini*, *P. soldanellindes*, a cushion androsace (*pubifera*?) - more *P. Waddellii*. That is probably all till Narutray, when we should have a few *P. tsarensis* white & ordinary, *P. uniflora*, *P. umbrabilis* white. Today really felt like the end of the rain, although there was much mist early on. The day has been lovely & clear, with big cumulus clouds gradually collected. Now at 3:00 pm there is thunder & torrential rain, the first thunder we've had, & I expect a sparkling day tomorrow.

26th September, Marlung. Today dawned beautifully clear, & was the first day we had had like it with no mist, even on the hill tops. It was quite interesting to see all the hill tops, because even in the fine day we have occasionally had, there has always been mist on the tops. However a fine veil of high cloud quickly came over the sky, & by 11:0 there was no sun. It seems much colder up here than Wankang. There are a few yaks here now & some droppings: like the latter is the small boy who broke his arm just before I left here in July. I am very glad to

see that it has healed well, & she can use it perfectly. I never comfort
I am also very surprised, because the splinting I did was not good.
There was some white frost on the ground this morning, which the droppan
seemed pleased about, because their calendar said this would be the
first day of frost.

27th Sept. Hakt. This evening one would think we were in the
middle of the warm part of the rains. It rained sparklingly bright, & yet
within two hours we were in thick mist, & we haven't seen the sun
since. A most disappointing day. But we got what we wanted, good
seed of *P. tenardii*, *sapphirina* & *Waddellii*, & one or two other things.
I should think there will be a good deal of snow high up tonight.
Many plants have no ripe seed yet, notably *P. umbellata*, which is not
nearly ready yet. There is quite a lot of *Polygonum racinophilum* up
here, which I never suspected before, but it is not in profusion as it
is on the Hala-Kynla, in Sikkim, near Changri. What a beautiful
thing it is though, & why doesn't one see more of it at home? I wonder.
We have managed to get a few - very few - seeds, & if we can get more
will take roads for the Hala.

28th Sept. Hakt. Heavy rain all night, & rain without a stop today,
much to our disgust. It is very hard to get seeds dry in the
atmosphere. Anything we take is naturally soaking. I have my tent
full of sheets of drying paper, with various kinds of seed drying very
slowly. Without some dry air tomorrow, it will be hard to get all
these seeds packed away. We have got most of what we want for
here, & only have four things to bring in tomorrow, our last day.
We were up pretty high today, & anywhere above about 14500 it was snowing
all the time. I hope the sun does not lie. In the area we have

pretty well finished the high altitude stuff, but Pasang & Yundou will have to get some high altitude things beyond Marathang, & an inch or two of snow makes that very difficult indeed. One of Yundou's primulas there is *P. umbilata*, which is only 2-2½" high when in flower. He has marked all these plants, but even so, it will not be easy. Ludwig will be having a very chilly time now. We are only at 13500' here, it is quite cold enough. His camp will often be higher than that. It will be a great blow to him not to be able to visit Tibet once more, but for what he said in his last letter, he has definitely given up all hope, & even ordered his passage home on the same ship as we go on. If we could both have managed one more trip to the Gorge country, it would have finished things off very nicely. I wonder if any of the other applicants for permission to visit Tibet next year will go. It seems more unlikely.

LTJ
plans
failed

29th September Hakt. Yesterday while we were out, while it was much raining, a couple of corvys of 'Lerwa' called a great deal, & the local droppa who was with us said that was a bad sign. When they called like that there would be much rain & snow. Well, he & they were quite right. It has barely stopped raining for our 3 days up here, yesterday & today have been as bad as we've had all year. Last night it sleeted, this morning snowed hard, even down here at 13500'. And it has not let up raining hard or snowing all day long. I had not expected this, I must confess. We had 2 high altitude primulas to get today. One I gave up altogether - *P. concinna* white. The other *P. sordanoides*, we had marked with a small cairn of stones. Yundou & I tried to find it, but rain had removed all the stones, & snow hid the primula. Up there there were 3-4" of snow. We eventually found a little of what I think is *P. sordanoides* on a cliff face a little distance away.

B.W. 15

- 1 Lake in valley opp. camp. Marlung. 27.9.
 2 Valley S of Tolegan La. 3.10
 3 Woolly Saussurea on Tolegan La. -
 4 Larko La to Jim La "
 5 } Gentiana depressa 4.10
 6 } No 19789 -
 7 } -
 8 Small Aconite 19727 a Gent. 5/10
 9 Primula capitata. 19816. 5/10
 10 " " " " " "

Dufar column 25.

- 1 } Woolly Saussurea on Tolegan La. 3/10
 2 } 1+2 no filter
 3 }
 4 }
 5 } Gentiana depressa? 19789 2/10
 6 } //
 7 }
 8 }
 9 }
 10 }
 11 }
 12 }

Kodachrome 33

- Yak. a Kangkar pusum. 27.9.
 Group of Swertia, Gent. Delphinium etc. Tolegan 2/10
 Tundra after seed of P. umbratica }
 P. umbratica, with withered leaves } Tolegan 2/10
 Tundra on cliff.
 View to E from Tolegan. 2/10

Kodachrome 34.

- Valley S. of Tolegan La. 3/10
 Yaks crossing the Tolegan La. "
 Woolly Saussurea " " "
 Larko La to Jim La "
 Gentiana depressa? 19789 4/10
 Small aconite 19727 5/10

To cheer me up today - I was feeling very miserable - a mail came in, with letters from Betty in Calcutta at last, & also from her in London. Nothing from HH at all for the first time when a mail has been sent. Hicks confirms that he will arrive in Buntaren on 5th Oct. So we should be able to leave on 13th at least, & reach Kupang on 3 Nov. Ludwig has got a passage, Betty says, & also she & I, Ignice Sen, & Tasho. So we should have a good time, 6 of us from Buntaran. 30th September. Pangatung. It rained all night again, but was fine when Pasang & Yundun went off about 6:0 am. We were off just after them, & had a day half rain half fine, but no sun. It doesn't look yet like clearing up, but I do most sincerely hope it is fine now for four days. There is a lot to be got in Tolegang & quite a lot on the other side. After that it doesn't matter so much, except for Pasang & Yundun, whose work went finish until 17 October. *Prin. umbrahi* here is nearly ripe, & I got some seed, but the big audouace is still green. This is our last of many halts in Pangatung. The Sukpen came to call & I gave him a little bottle of sapper & a torch, which is doing him very well. But we've been in his district for a long time now, ever since 23 of May. Sent off a small mail to HH for Kalimpang. I shall only be able to send off one more after this, except for Ha.

1st October. Tolegang. Fine till 10:0 then rain & sun off & on the rest of the day. We are camped about 14-14500' it is very chilly. We got some seed of *Prin. umbrahi*, the very pale form which occurs here, & a few other things. But the *Pharodia* (14716) I particularly wanted, is still in flower, seed are not nearly ripe. Neither are seed of the interesting *Crenaria* 19721. But I got roots of

Worms
2007

both. From among the ^{capsules} seeds of *P. unbrassii* which I collected today, I extracted 67 caterpillars, which show the difficulty with seed. Practically every 7 take now has worms or caterpillars. I can't find any seed of a big Smaric. All capsules have 3-4 red worms in them. None of the acornets were ready yet, at least had to take roots of them. Snow is not now lying here. It has all melted up to 15500' or so. The droppes have all gone down from these high rocky grounds, I am surprised to see. They come in the 5th month (July) & leave in the 7th or 8th (Sept). It is a very short season. I sympathize with them going down now, but I think they should come up much earlier, when the grass is good.

2nd October. Hach. This is the best day we have had. There was rain & some snow last night, but it cleared up to a beautiful milder & there was hard frost. Up till midday today there was lovely bright sun, & then huge clouds collected, but it has not snowed, & I should think we will now have several similar days. I got a little more of the same seed today, but nothing special. We walked out to a huge herd of 58 barked on our way back. And now we have finished with the area called Tsampa, which included the watershed of the Brunthang Chu, but not the Dhu Chu. Tomorrow we cross to the head of the Dhu Chu, & there meet Pasang & Yundou. It is difficult now to think that we have practically finished our work this year, & that there are now but 5 more days left. In a month I will be in Sikkim. And this is the last of our Himalayan trips, which had been started planning in 1929, sitting in front of the fire in the drawing room of the Consul General in Kashgar,

probably after having a lovely dust sheet up & down the Tiimen Su in a temperature of about 10° F.

Hicks will be glad of the change in weather. He still have the Rudo La to cross, she will be lucky to find a good dog to get over that. It must be one of the wetter passes in Buntan, on the east side.

3rd October. Ambungnang. Misty, with a hard frost in the early morning, but soon cleared up to a perfect day - the first with no rain at all. Clouds formed soon but never looked wet. It was an interesting march, too, & I now have much more of an idea of the country. I just wish that we had chosen the area of the Dhu Chu instead of Waitang. We would have got many more flowers & of much greater interest. Partly this is due to the wet being over-run by yaks, but there is something else climatic as well. As soon as we crossed the Tolegung La, the was evident. But it can't be helped now. Pasang & Yundun ~~we~~ came on later than us with their haul of seed. They have done well, got quite a good lot of things. They were unable to go the way we meant them to, owing to the snow being a foot thick. That in boulder scree, is really impossible. It made no real difference to the seed gathering, which was their work. One disappointment was *Dec. bella*. We saw so very much of it all along N of the Jiu La, that I expected much seed. But ~~we~~ there only got about 6 capsules. A letter came in from Ludwig written on 20 Sept, to say no sign of either *Davallia* or *Pomposia* by them. Someone must have kept them back. It is a great pity. Ludwig has 5 lbs of *Dec.* *Sheriffii* seed! That in itself is a pretty good collection to take back from the trip, because it will almost certainly grow from this low altitude seed. On the Driehun La it was found at from 15500 to 17000' as far as I remember, whereas this is mixed up

NB
Sheriffii clean up
McC
Sheriffii
seed

Drova
Shoni
La
X

Wahang

Marlung

Darabun Jurtang

Nawidun

Nandala

Dun
Chutun

Pangitang

Gatungla

Tolegang

Tolegang

Bumbar
Cun

Mangje Cun

Jiula

Amprang

Harlung

Shunitang

Anlungwan

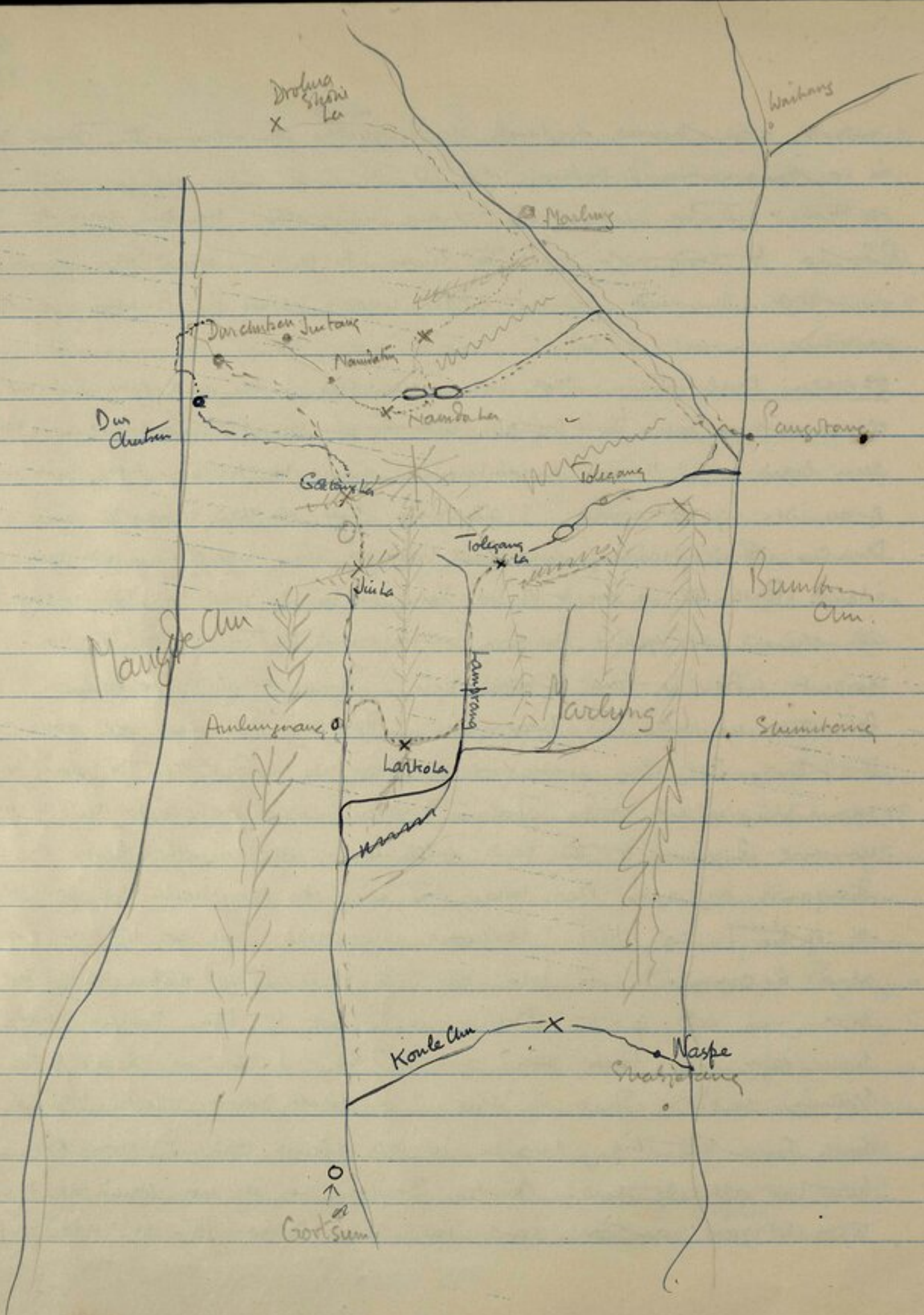
Larkola

Koule Cun

Naspe

Shatung

70
Gortum



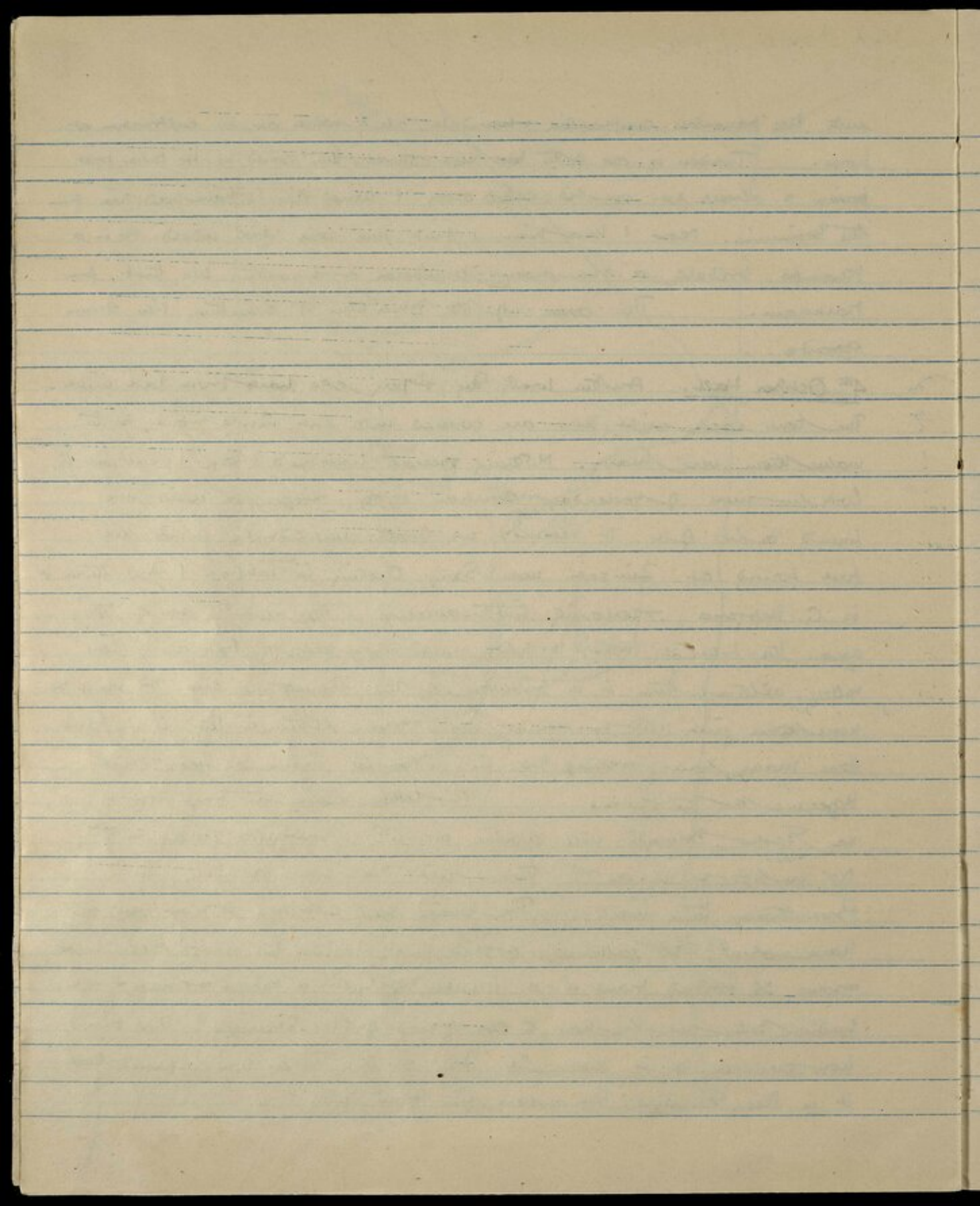
with *Nec. parvulata*, *simplicifolia* & *hoiudata*, all of which are in cultivation at home. Tupden is one of the best seed collectors there could be. He takes great pains & always goes on till called away. I would like to have had him from the beginning. Now I know him, I find him very good indeed. He is a Khampa, probably a run away murderer or something like that, from Markham. The area of the Dhuu Chu is something like shown opposite.

4th October Hall. Another lovely day, & very cold here frost last night. The tents each night now are covered with frost inside & out, & this makes them very heavy. Nothing special happened today. I went out to look for more of yesterday's *Cenhan* 19789, & after a while we found a lot of it. It reminds me of *C. amplicrata* which we first found at Zimsati near Sanga Choling in Takpo. I don't think it is *C. deprana*, & certainly not *C. amoena*. The more I see of this area, the better it looks. It holds much more than the Brunthang Chu valley, although this is a tributary of the Brunthang Chu. It must be more than just not so many yaks here, although there is no doubt that many yaks, & sheep too, in a valley, make a very great difference to the flora. A letter came in from HHH to say Tarko Drunyer will arrive on 6th. So with ticks on 5th, MK on 6th & us on 7th, there will be some activity in Brunthang this week.

The main seed collection is now over, & I have about 130 gatherings of seed now, besides the 40-50 taken before & some 25 rooted plants & a number of bulbs & tubers & corms & so on. Ludlow tells me he has 5 lbs. of seed of *Nec. Suerigii*! That shows how common it is when it does occur. Taylor has confirmed that it is *Nec. Suerigii*, but a very fine form of it.

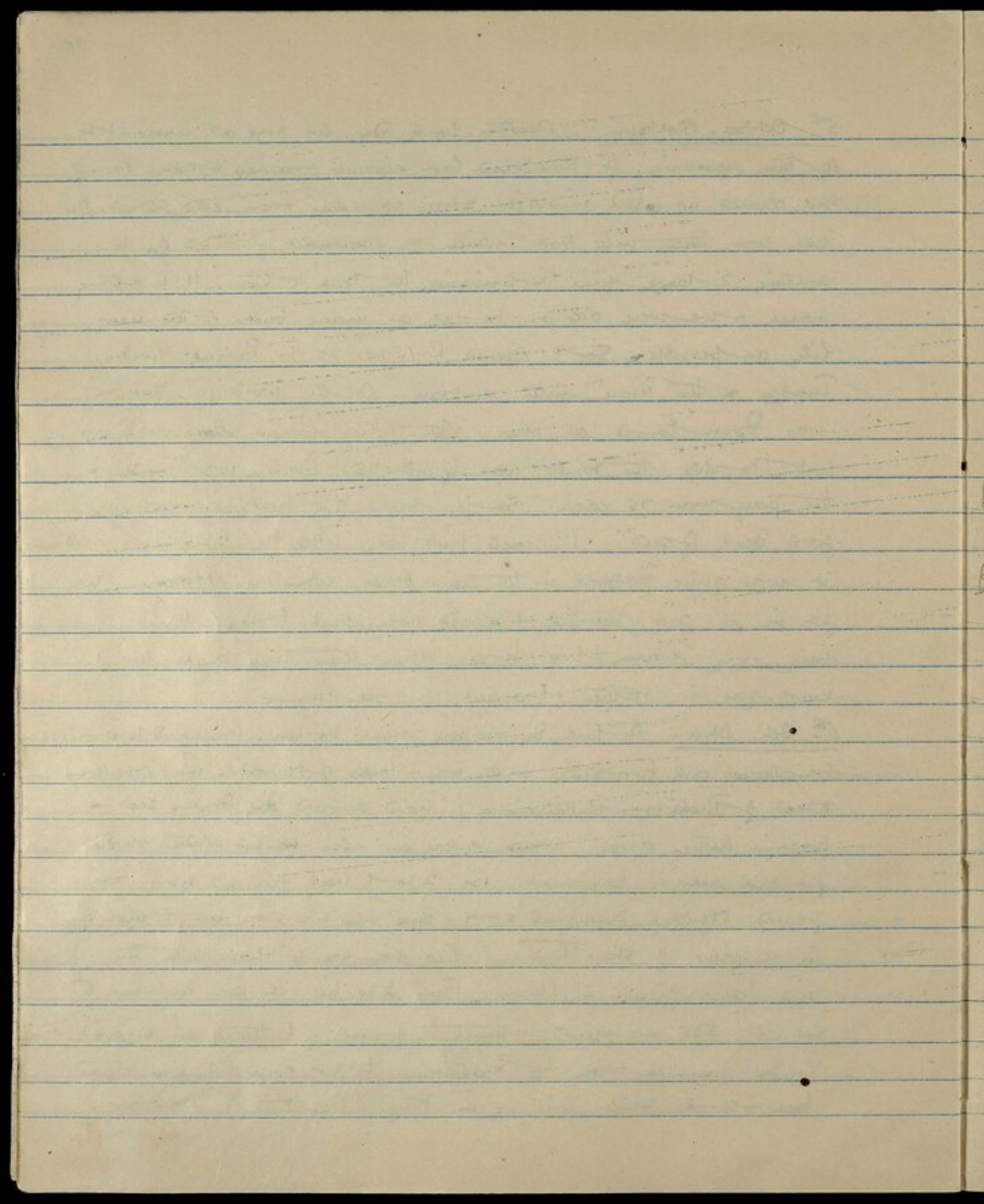
Eaten

Seed
Bogal



5th October. Gortsum. Another lovely day. We were all anxious to be off this morning. It thundered last evening & rained & sleeted heavily, but cleared up about midnight & was sparkling & very cold indeed. My tent was tucked into frost which we eventually thawed off by making 3 large fires & bringing the tent to them. It is a long march & we were anxious to get as many bulks of the new lily as possible. So I offered Rs 1/- per 25 to Pasang, Yundru, Tupten & the man with a pony. On the word 'go' Yundru was down to it at once, & the others weren't slow. When we had to stop, the result was Yundru 157, Pasang 123, Tupten & the pony man 75 each. So we have 430 bulks, as well as a good deal of seed. I could find very little *Nec. bella* seed, although it was quite profuse in the same place, when in flower. We got in at 2.0 having walked very fast today. It is very very warm here to us, after these high camps, but I must say is rather pleasant for a change.

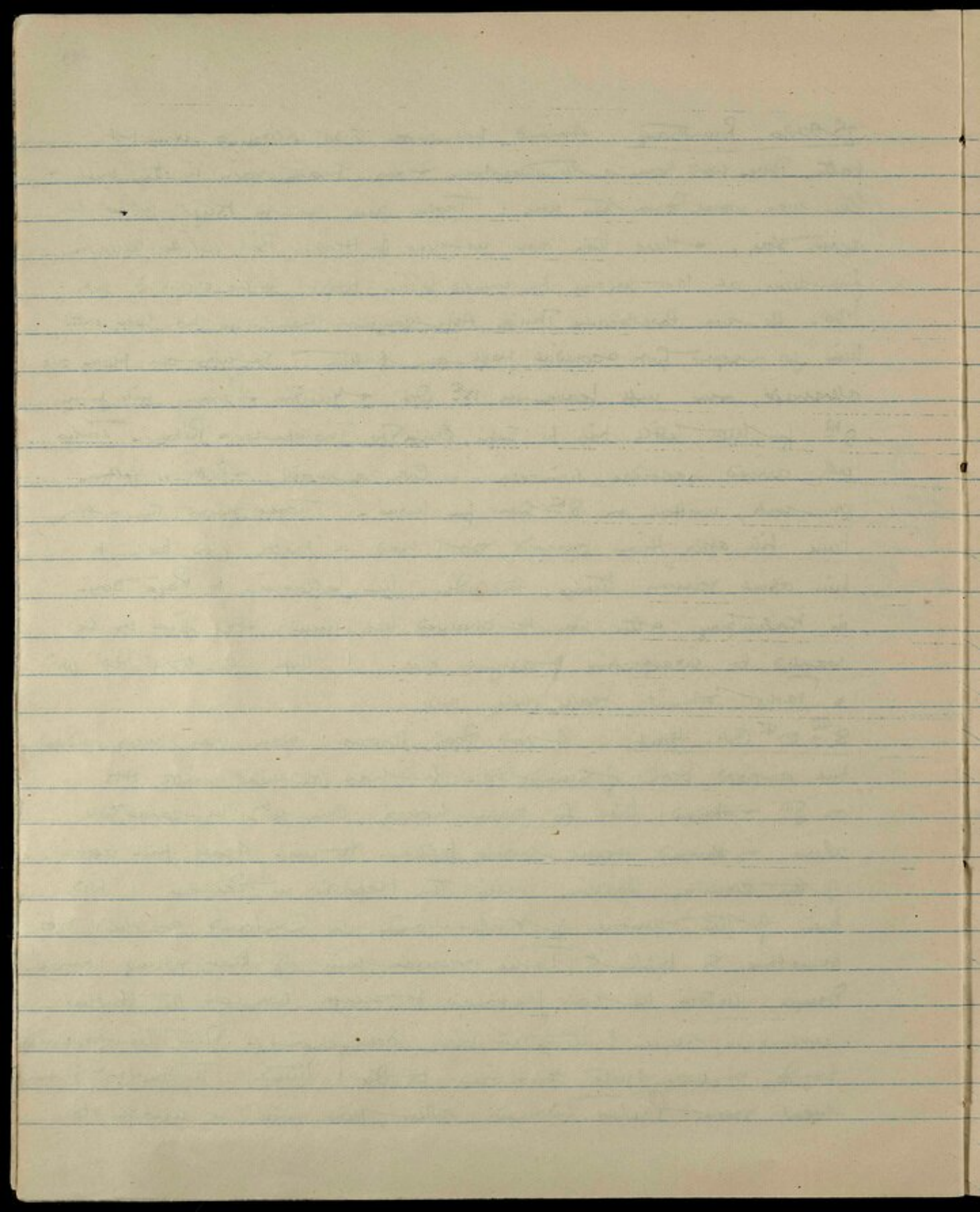
6th Oct. Dhus. A lovely day & a very short march. In at 8.30 am. We collected only two things on the way - bulks of *Nitobolium macrophyllum* & seed of *Thalictrum chelidoni*. I had a good day drying seed & packing things away, while every one else washed clothes & bodies for our arrival tomorrow. By 2.30 I had finished work, & so joined Ngundup, Namgyal, & HH's syce who had come out to meet me in a game of stone throwing, like we use to have with the high lama officials in Lhasa. From 2.30 till it was too dark to see at 5.45 we prayed without a pause, & I thoroughly enjoyed it. Yundru went on today to Sobjatang to get seed of four other bees & shrubs, & will join us in Kuzi (Bumthang) tomorrow.



7th October. Bonmthang. Arrived here at 8.30, along a very wet path. There had been a thunderstorm & very heavy rain in the night, & this was worse than this was. Tasho met me in Kruji, where we again stay, & here there was no news of Hicks. But a letter came in from him at 10.0 saying he would be in today, & he arrived at 1.30. He was late because Trinley, Ashe Wangmo's man who has been with him, got a septic foot & could not walk any further. So now our plans are all made, & we will leave on 13th Oct, & Yundun Pasang will join on 9th for their little trip to Sapa, Oula Tso, Thampela & Ritang. Tasho only arrived yesterday himself. Got a mail, & Betty is getting on well, written on 8th Sep for home. Tasho stayed for a long time till after Hicks arrived, so I had a pretty good talk to him about various things, including his behaviour to Rara Dorji in Kalimpong, & the way he changed his mind & did just as he wanted to irrespective of anyone else. I hope all that did good, & Tasho took it really very well.

HB
Hicks
arrives
from Hicks
trip

8th - 10th Oct. Hakt A good deal of rain, some very heavy indeed, but a good deal of sun too. He had a meal with HH on 8th & stayed there for some hours. On 9th he came here alone, & stayed many hours talking to me. Apart from affairs of the country, dealing with the Nepalis in Bhutan, I told him of the rumour of Kula going to England, & asked HH sometime to talk to Tasho & warn him of that young woman's danger, unless he was prepared to accept her as the future Maharani, which I thought very dangerous. But he promised to do, & was quite anxious to do I think. Today (10th) we went to see Kubo Wangdi, who, poor man, is unable to



more at all, doubled up with rheumatoid arthritis, but who now has no pain. We have in between times packed up & organized pretty well, are ready to move off at any time. Tassau & Yundoo left on 9 morning with 2 coolies, & were all quite happy. HH made all arrangements for them - (ave them rations, a permit & all they could want for their little trip. We next see them on 17 at Ribang.

11th Oct. Hach. Tasho came at 9.0 am & left at 5.0. HH came at 1.0. So we have not had much of the day to ourselves. HH brought presents to us, & also brought a good deal of snow. This was for us to keep a blood sample of his cool on the way to Kalimpong. It leaves today, & will get to Keping in 8 days! The ice came all the way from the Thunbarhaching, & the men who brought it were somewhat told off for ~~the~~ taking 3 days on their way there & back. It is about 100 miles.

12th Oct Hach. Our last day here. Rain at night & in the morning. All days are still cloudy & raining. Today we had Tasho, Kapo, Phup Ciyelken, & Nyerchea troops to 'lunch' at 9.0 & then stayed till 3.0 pm. We filled in some of that time by firing off 150 rds of .22 ammo. Kapo has such shaky hands, he never hit the target even. The most interesting thing occurred this afternoon. HH told us yesterday that there was a woman doctor from Kham here, who did cataract operations, & in fact had done several here & was to do some more. She did one this afternoon, & said that we could come & watch. She merely had the man seated & ready when we went, & after a short chat she began. She had a keeper behind the patient, whose job it was to keep the patient's head quite still.

24x
AB
Cataract
operation

BTW. #16.

- | | | |
|----|---------------------------------|--------|
| 1 | Tasho. for passport. | |
| 2 | HH. Her H Tasho. | |
| 3 | +sect. | |
| 4 | +Hicus. | |
| 5 | Craufundia 198 | 16/10 |
| 6 | View downstream below Tsalimape | 22/10 |
| 7 | Clouds to E from Bela la. | 23/10. |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |

Dufay colour 26

1 Craufundia sp. 198

2

3

4

5

6

Kodachrome 35

- | | |
|---|--------|
| Pasang, Yundin + Tupten counting, bulbs of <i>quercus</i> ... | 5/10. |
| Red leaves of an ivy above Dhen | 6/10. |
| Arrival of Small Rinpoche in Bruntang for Lhasa | 9/10. |
| Chickies on roof tops Dajun. | 18/10 |
| Village + rice fields at Sa Santegang. | 18/10. |

Kodachrome 36.

W. pitray dzung + ridge in morn. Sun 20.10.

a *Lucilia prasinina*.

View downstream below Tsalimape 22.10

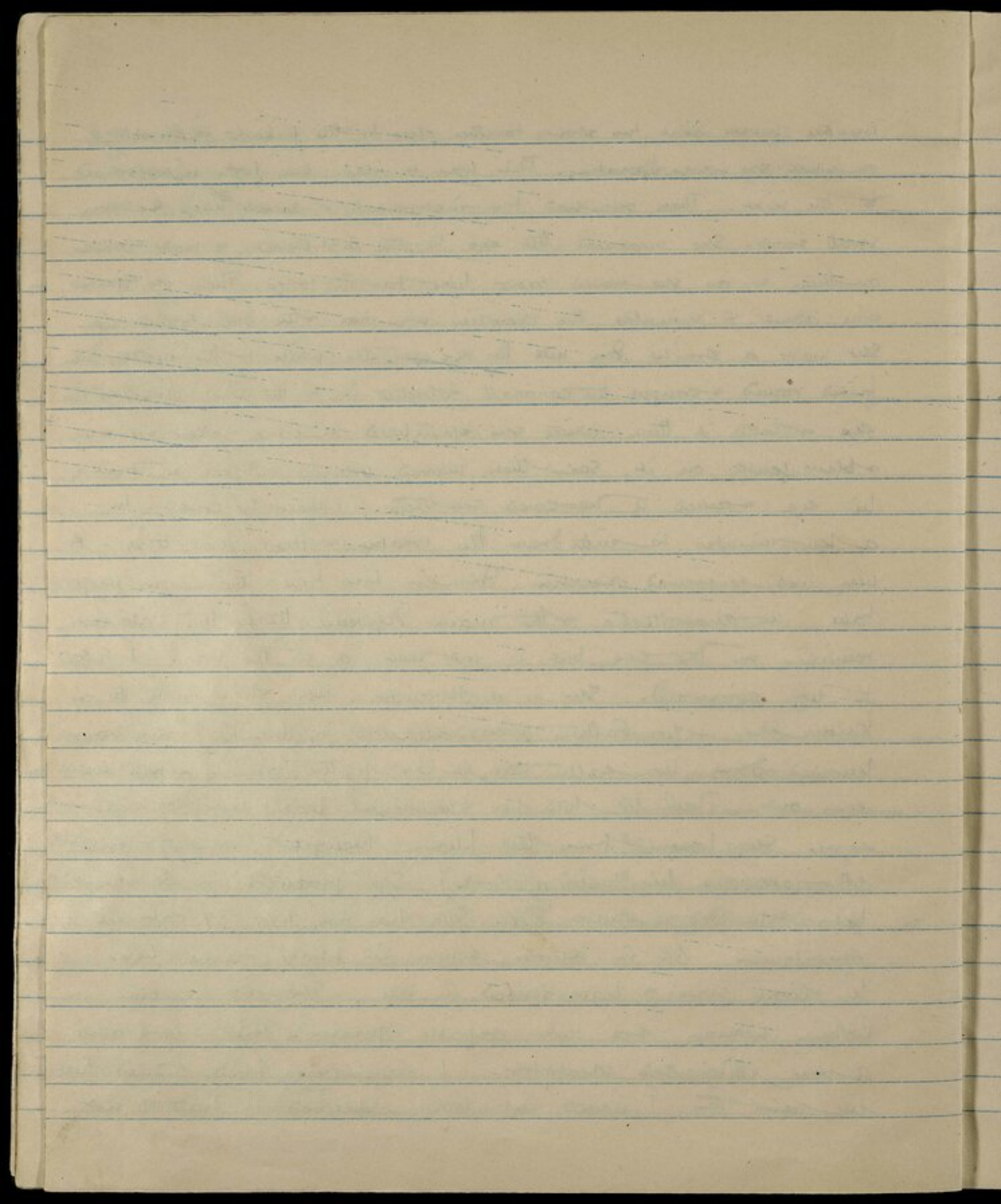
Cibonaker 19632 "

Ceratomyxa *trifolium* "

Cloud from Belata. to E. 23/10

162

Another helper beat two stones together close to the patient's right eye, on which she was operating. This was to make him look right round to the right. Then she had two instruments, a small ~~knife~~ ^{knife} & a very small scoop. She measured the eye by the instruments, & made marks on them so as she would know how far in to go. Then she started, and about 5 minutes the operation was over & the eye sound up. She made a straight dig into the eye, in the white to the inside, then fished round & caught the cataract & pulled it to the side - inside the eye & held it there, while she sprinkled on some yellow medicine, & blew gently on it. She then moved various objects in front of his eye & asked if he could see them, which he could. In a few minutes he withdrew the weapon & that was that - A very well performed operation, done in less time than our people take, no anaesthetic, & the main difference that the cataract remains in the eye, but is not seen, or in the way. I talked to her afterwards. She is a Khampa. Her story is that in Kham she & her father were attacked by bandits & she was knocked down. Her father caught one of the bandits & put his eyes out. Then he told her she must learn how to heal eyes. She learned from the Khosa Menzipa (our old friend who gave me his medical book). She practised on 60 sheep before she did a man's eye. She has done now 87 cataract operations, 66 in Kham, some in Khosa & some here. In Kham some 9 have failed in all. She was a nice looking woman, & a most capable operator. Hicks was also a very interested spectator. I am very glad indeed that we saw this. I would not have believed it had I not



actually seen it done. I carefully worked out all loads & found three boxes spare, besides all our extra stores, four tents & various odds & ends. So I sent all these to H.H. Now this afternoon we have been given more presents by the Ashes, & it is a problem how to fit them in. One more box would have been most useful. I suppose we'll get everything in some how.

And so ends our stay with H.H. I have certainly a lot to be grateful to him for. I have stayed with him in all 5 days, 6 days, 3 days & 5 days & he has made me & my friends his guests all the time we have been in Bonulan. He has fed us all, and our servants, all the time: he has provided saddles for us, sent our mail each way & generally looked after us all. Could hospitality ever be greater? In return Betty & I now have to take Tasho home, & we will have a job with, after him no doubt. He will be with us about 5 months.

13th October. Gyetsa. Rain at night & a dull day, with heavy rain several times during the day. We left Kuyi at 7:30 & went to Wangdicholing at 8:30 to say goodbye to H.H. & Co. Choeden was there, but not Pema Dechen, & Tasho was with us from Kuyi. We had tea cakes & soon & after taking a few group photos, we left at 9:30 & got in here in a bad rain storm at 2:0 pm. The weather is very unsettled indeed, & looks like continuing like this. Reception here poor - nothing for ready in the way we have come to expect. This continued heavy rain too is rather unexpected, & we all feel now that it is high time that we got into settled steady weather. All through the year the monsoon has been late.

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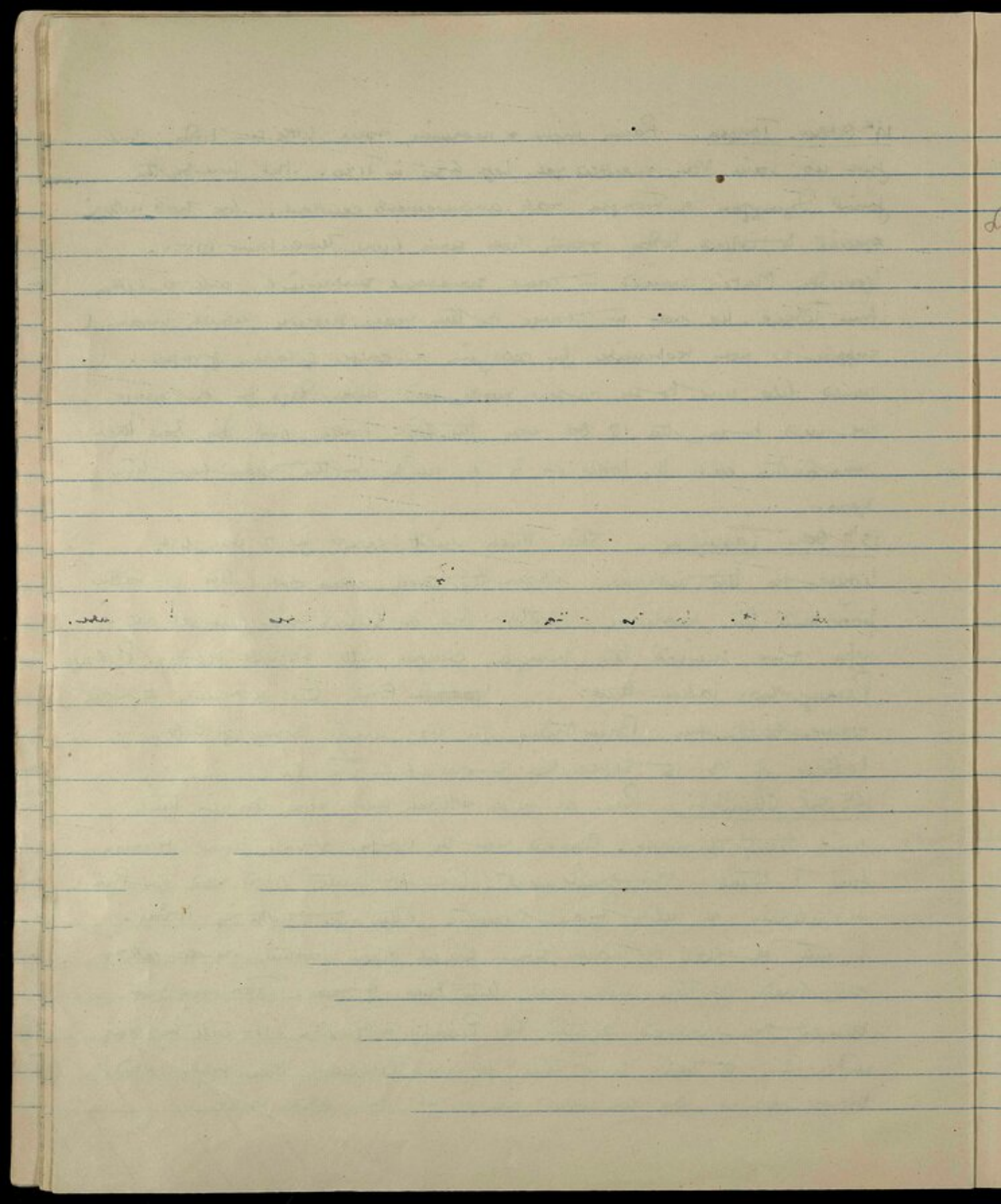
Co

14th October. Tongsa. Rainy night & morning, over little sun today, but
 just no rain. Very unsettled yet. Left 630 in 1130. Met here on the
 final Dzongpen of Songsa, all arrangements excellent. We had with
 special to collect today, took both some more *Malichium* 19544.
 Yesterday, Mati arrived in camp somewhat surprisingly, with a letter
 from Tobogg. He was in charge of this year's subsidy, which means I
 suppose he was responsible for carrying a couple of lakhs of rupees. I
 would like now to see a few really nice clear days for a change.
 We used to say the 18 Oct was the first really good day, but that
 was further east. It looks as if it might be the same here this
 year.

15th Oct. Tashiung. Still thick mist, except for 2 very hot
 hours in the morning, when the sun was out. We got rather
 poor seed this morning. Ludlow's tree or shrub was not at all
 ripe, & we missed the hanging creeper with scarlet flowers. Perhaps
 Pasang has taken that. ~~Yested~~ Early this morning, a mail
 came back from Bumthang for us, with some of Betty's
 letter of 13-15 September & one for Tarbu.

16th Oct. Chendeki. Rain at night & thick mist, over life in thick
 mist this morning. Cleared up by 1.0 pm & may now remain
 fine I think. No excitement. We got quite good seed of *Prun*,
Hapellaris & also took *Dicentra*, otherwise nothing today.
 I will be glad to have some slight clear weather. We are getting
 very tired of the mist, at this time of year. Tomorrow we
 should be joined again by Pasang & Yundru. It will be very
 interesting to hear how they get on. Certainly they have had
 some snow, as we can see it at only about 14000'.

Cranfordia
speciosa
 19529



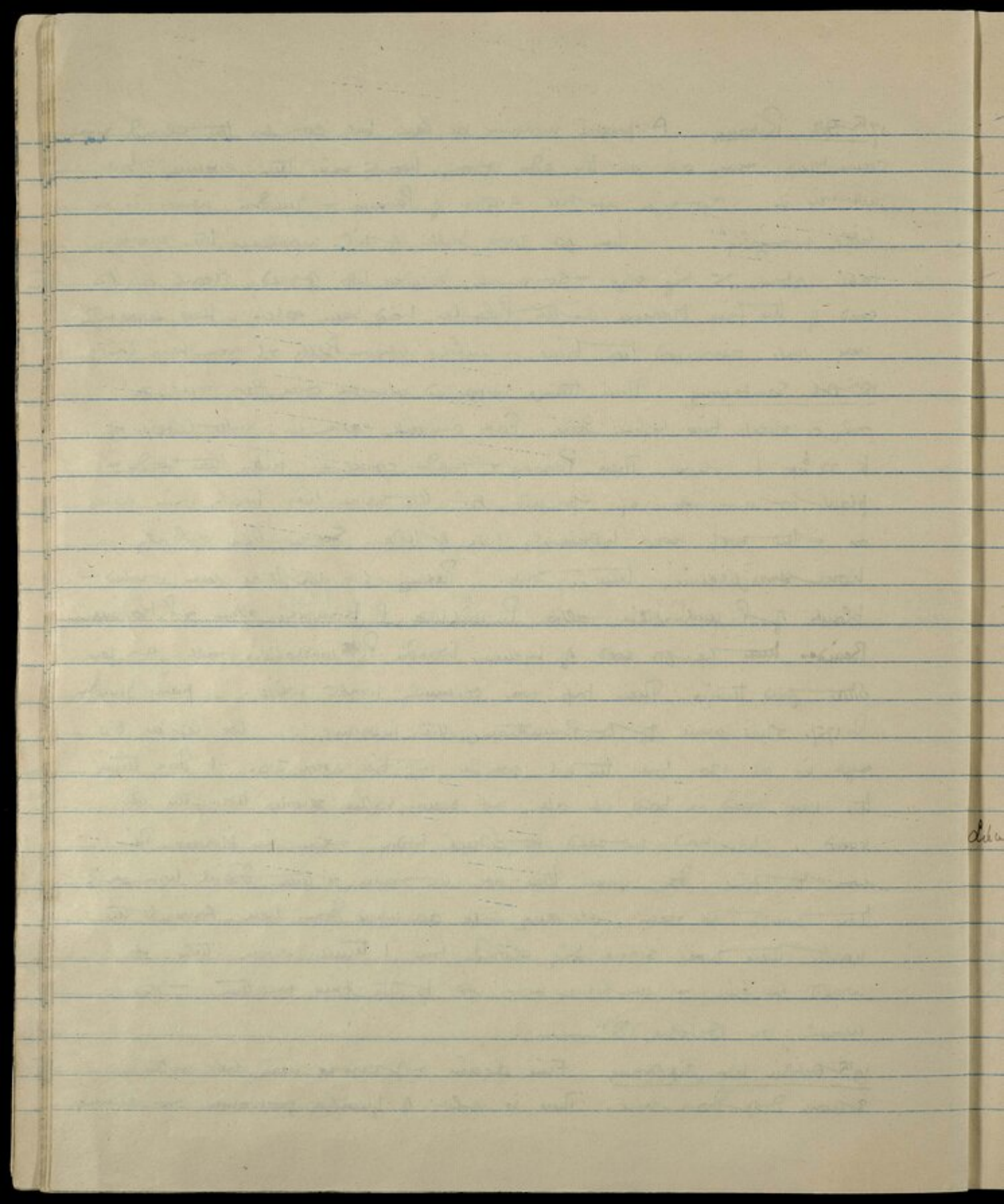
17th Oct. Ritang. A perfect morning at last, but even so the clouds soon came up, & we are on the edge of very heavy rain this evening, but not in it. No sign up till 4.0pm of Pasang & Yundru, which is a little worrying. We got wood bulks of *hil. nepalense* this morning, taking about 75 big size & 50 small, besides lbs of seed. Nearly all the seed of the fine *Moringa* on the Pelela had been eaten. How ever the very well arranged tree time - unlike when Betty & I were here last.

Lilim

18th Oct. Santegang. Three things happened all at once late in the day, & only a short time before dark. First a mail came in, with letters up to 27 Sept from home. Then Pasang & Yundru came in with their seeds & plants to be written up & packed. At the same time heavy rain came on & the roof was hopelessly full of holes. So we had a lively hour straightening things out. Pasang got all that was wanted - plants of *P. umbratilis* ¹⁹⁸³² *alba*, *P. uniflora* ¹⁹⁸³⁶, *P. bonensis* ¹⁹⁸³⁵ *alba* & *P. bonensis* ¹⁹⁸³⁷. Besides these he got seed of *Lychnis wardii*, *P. umbratilis* *alba* & a few other good things. Their trip was certainly worth while. I paid Yundru Rs 175/-. They went off to Bannu this morning. We left at 6.00pm in at 130, but the hill wasn't in till after 3.0. I don't think the new road is bad at all, it seems rather shorter than the old road. We had no seed to collect today, & saw no flowers. This was the fine day when there was no rain & there didn't look as if there would be rain, at any rate anywhere down here. Apart to the north there were some big clouds, but I think even then it would be fine, & we have now got to the fine weather - as usual, on October 18th.

QED
Lilim

19th October Wangdiporang. Fine again & of course very hot on the 3 hour drop down here. There is a lot of *Luculia gratissima* on a sunny



scrubs all the way down, but otherwise the place looks dry. We were to have had 40 malaria cases here waiting for us, from Punaha, whose blood Hicks was to make slides of to see what kind of malaria they all suffer from. H.H. ordered these men to be produced. But there was nothing here, and all the Djonpon said was "There is no fever in Punaha". If this is really so, which I very much doubt, then all our jars of 5000 Paludrine is being just thrown away now. I personally think there is a lot of fever, but that the Djonpon is a fool who has not the energy to call in the rich people. I've written a shikhar to H.H. & told Bogue all about it. We are both rather sick at this. It seems v. difficult to get anything done for these people. They say they want something done, but they won't do anything, when one tells them what to do.

20th Oct. Talukun. A lovely day, with clouds in the morning, but clearing to the real cold weather dryness. This is an absurdly short march which I only arranged as there was a nice hut here, and that would save trouble for the locals in making arrangements. But we got here to find the hut gone. That doesn't really matter as we have tents, but a much better camp would have been at Nahila, 4 miles on. We got 47 very fine stalks of Lil. Wallichianum on the hillside across the valley here. Some are bigger than I have ever seen, but none has ^{had} more than 2 flowers on it, whereas in Kalampong gardens they can have up to 5 flowers.

det. 19846

19846

21st Oct. Balimape. Again fine though mostly clouded. We got in by 2.0 but kit not till 4.0 - 5.0 pm. The Zimpin is away in Ha, so we are spared any trouble here in the way of conversation & entertainment. He is a pleasant man, but it makes things easier if he is not here.

Faint, illegible handwriting is visible across the page, appearing as ghostly impressions of text. The writing is too light to transcribe accurately.

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We only found 2 *Codonopsis*, one cured nor find the tuber, & the seed was not nearly ripe. This is a nice march to have for ever. There is nothing new to worry about except officials & presents in Paro. We seem to have got near the end of our trip very suddenly, with only three days to go.

22nd October Pyinikangka. Low clouds in the morning, turning into rain. But they soon cleared away & the day was beautiful, with just enough cloud for extra beauty. *Ceratostyima angusticarpum* is in better flower now than it was in August, so we did not get much seed - 31 seeds actually, out of a big bundle of heads. The river is very low. Below the river & the main Thimpu river look lovely for trout, & water comes down very dirty at any time.

23rd October. Paro. Lovely day. We came slowly, with a wait on the pass where the view was very pretty. Then down to search for *Codonopsis*. Here 5 of us looked with great care & we got in all 6 tubers only a few seeds. The Thimpu spent a long time with us & promises to give transport tonight, ready for a very early start in the morning.

24th Oct. Ha. Again a lovely day, but with dense cloud in the morning, through which we ascended above 2000 ft up. The Thimpu promises meant exactly nothing at all. Cows came at all times in the morning, not the evening before, & some did not leave Paro till midday. So cows were not all in till

Diodes
Joan

8.5 pm. Took a few seeds on the way & took of P. *Ceratostyima* from the Chelak ha. Kudlum here, in very good form & very fit. Chuni & Ugyen also here, & came to dinner.

29th Oct. Today the bulk of our kit were off to Rinchenpong, with the

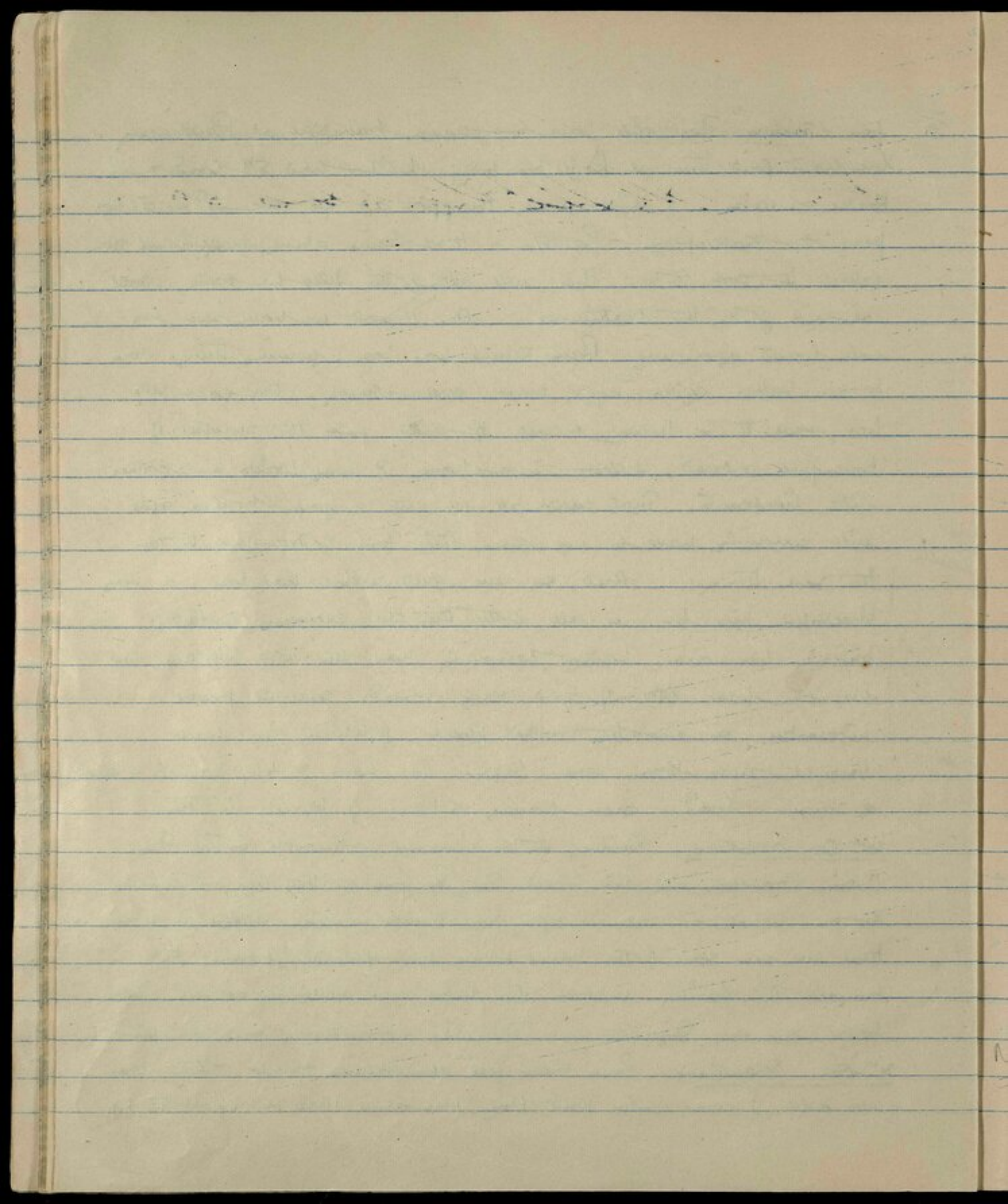
four collectors. They will have to change transport at Ruelumpung. We have paid them at Rs 9/- per pony. Hudson had 5 1/2 loads & Hicks at 10 1/2. I also paid Tsongpon at the rate of Rs 10/- per pony to Kalingpung - Rs 105/- - that being about half what we expect the cost to be. They will all go the Jelep La route, while we will go by the Nathu La. As usual we have been very well looked after here. Ram Chuni has been pouring things over to us, butter, cyder, eggs, meat, even whiskey. We can't stop her, so we'll be lucky to get it into just the number of transport ordered. With us we have 8 pony loads & 3 coolies with live plants. That can't all get into a jeep & trailer, so we will certainly have to use some other form of transport to get the rest through. And so we end what has been a very successful trip for us all, with the one exception of Betty breaking her arm. Hudson certainly has the best collection, but we all have lots of good stuff, & seeds & plants prove interesting, & also the rooted plants, of which we have brought more than ever before. We have 3 big baskets - each a maul load - each having 3 tiers of plants in them. Sep. 147.

Siped results

*
See p. 147.

30th Oct. Damschang. Raining in the morning, stop on in the day. Coolies & transport very sad indeed. They do just as they like, & even by 4.0 pm several are not in after an 8 mile march. What is worse, is that we saw some of the boxes which went yesterday, passing the bungalows this evening. In fact they never went yesterday at all. These people are very difficult now. There is no authority, no discipline.

31st Oct. Shanithang. Rain & sleet fell all evening & night, there was quite a bit of snow on the road today from about 11000 ft up to the top



~~for collections. They will have to change their plans at Rinchang. We have
paid them Rs 9/- per party. And we had 5 1/2 parties of 10 1/2 also
paid Rs 107/- at the rate of Rs 107 per party on to Kuching, a Rs 107~~

and most of the way from here. But luckily it cleared up before we
reached the pass & was a perfect day. We stopped a good long time on
the passes, & collected all the *Hec. Supersa* seed we could, & there
must have been 3 or 4 lbs I should think. Beautiful views
everywhere. Got in about dusk & heard that all roads
had caught up now.

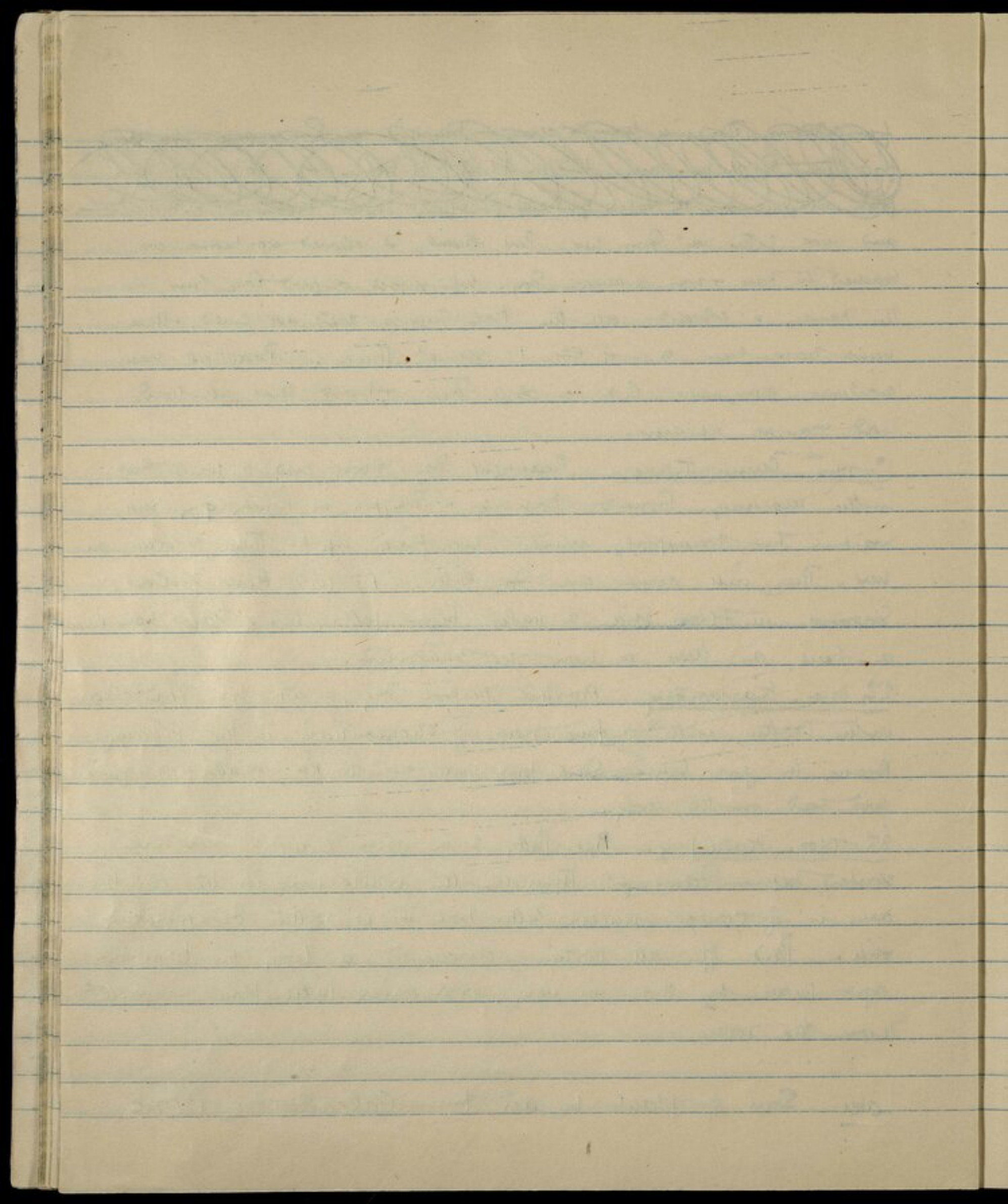
1st Nov. Cumpitang. Beautiful day, very cold & hard frost
in the morning. Found Danong & Tsingpin in Rinchang still
waiting for transport, which we fixed up for them, & came on
here. They will come one day later. A good deal of *Cent.*
Depressa in flower still 2 miles before getting here. Stayed here in
a tent, as there is now no bungalow.

2nd Nov. Karponang Another perfect day, a cold but dead clear
on the Naktan, with a fine view of Chomolhari in the distance.
Again in just before dusk, but with all the hills, & also got quite
good seed on the way.

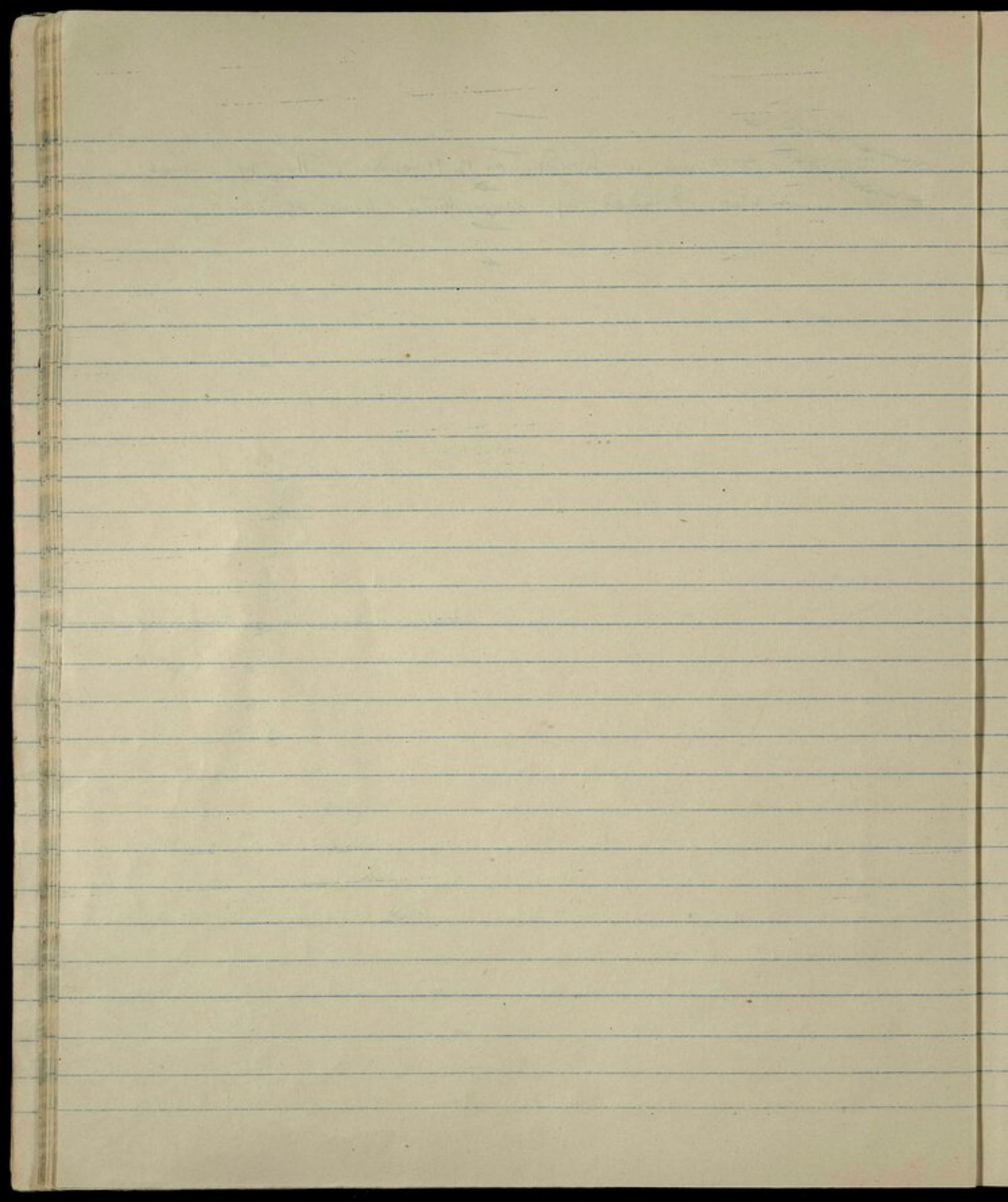
3rd Nov. Kalimpang. Met Betty 2 m above Cumpitang, she had
started before dawn for through the whole way in the car. Her
aim is of course much better, but it is rather disappointing
still. Paid off all debts, arranged a lorry for tomorrow
got home by 3.0 in very good order with plants & everything
more the worse.

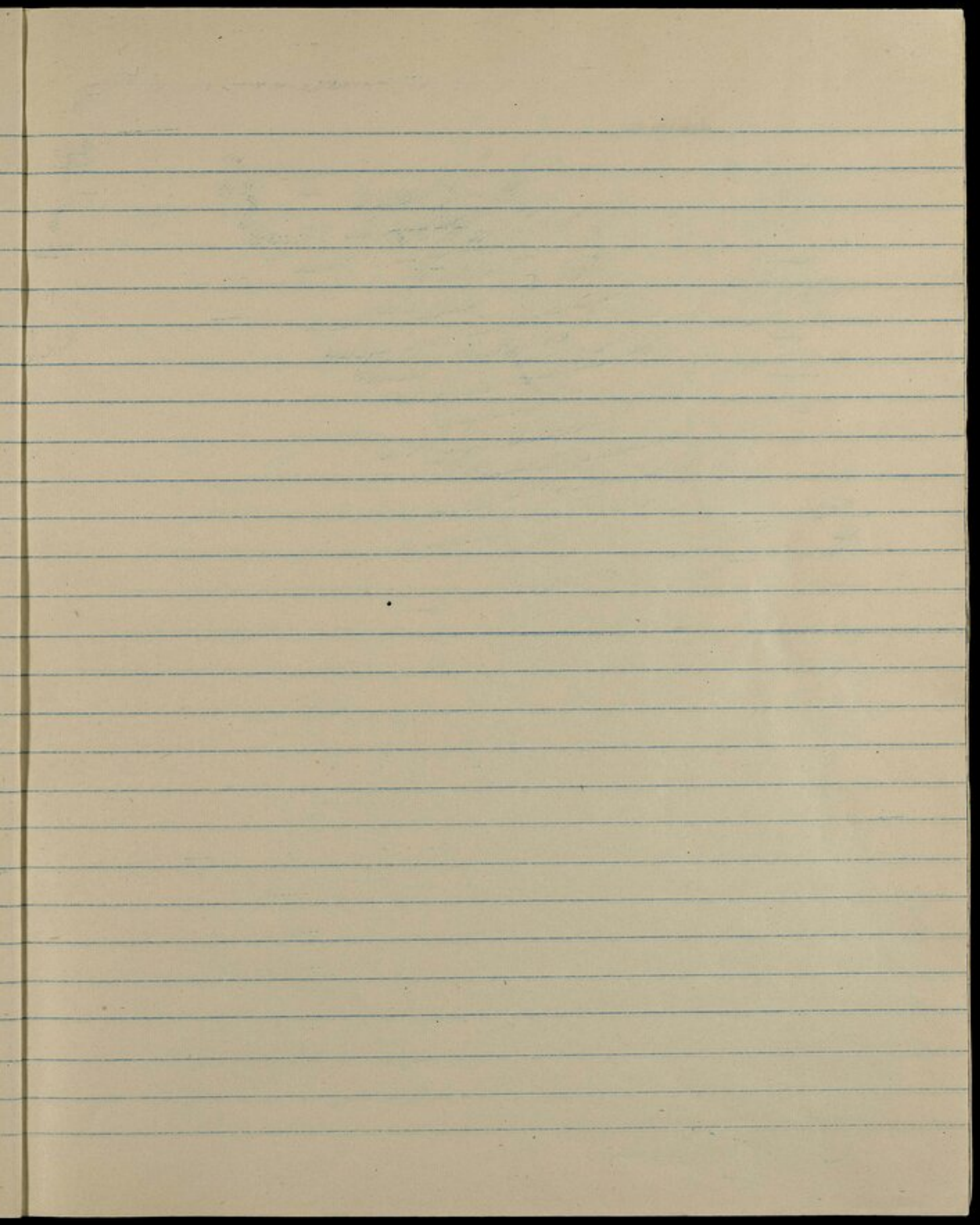
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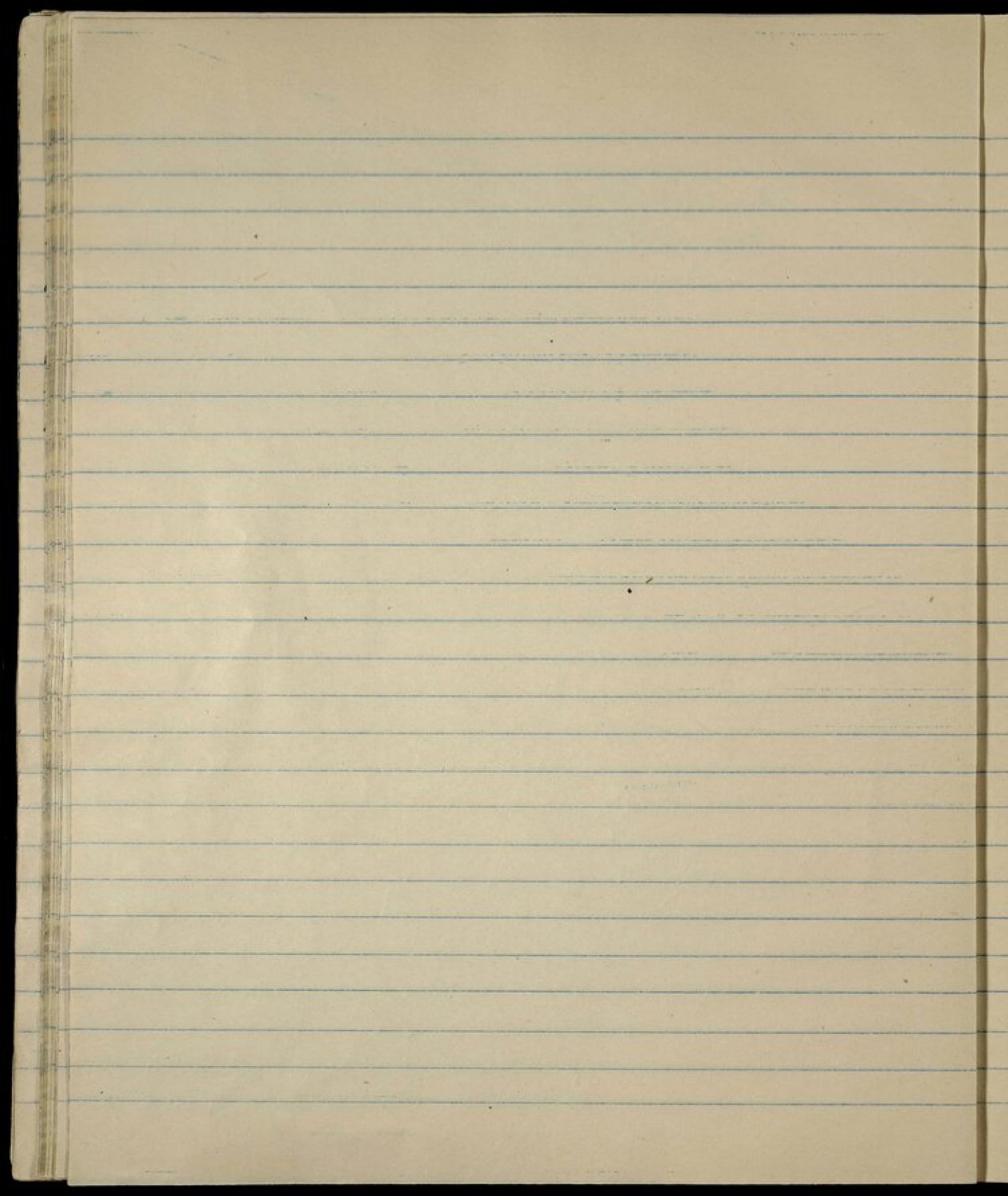
Later. Sent off plants by air from Calcutta by BOAC

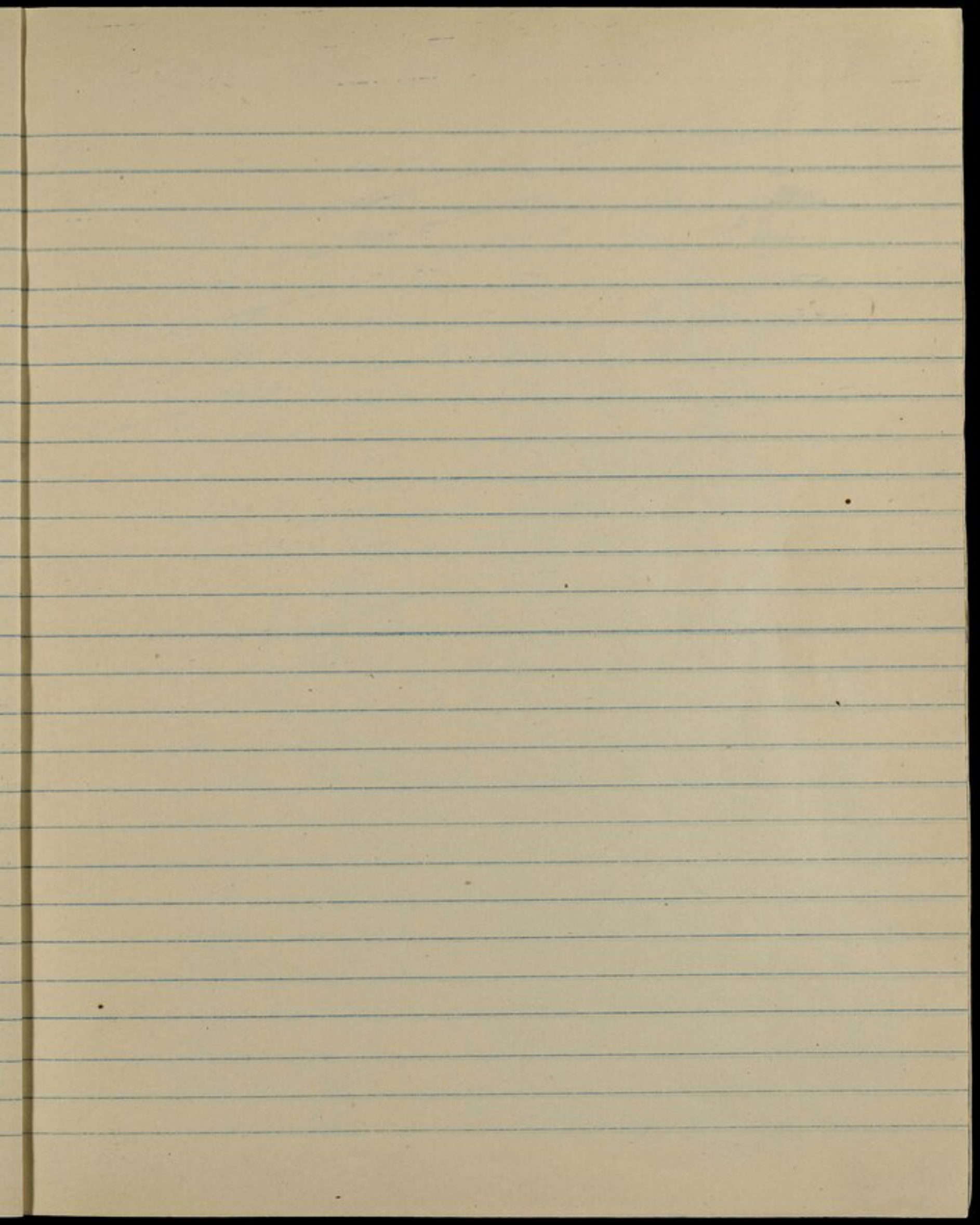


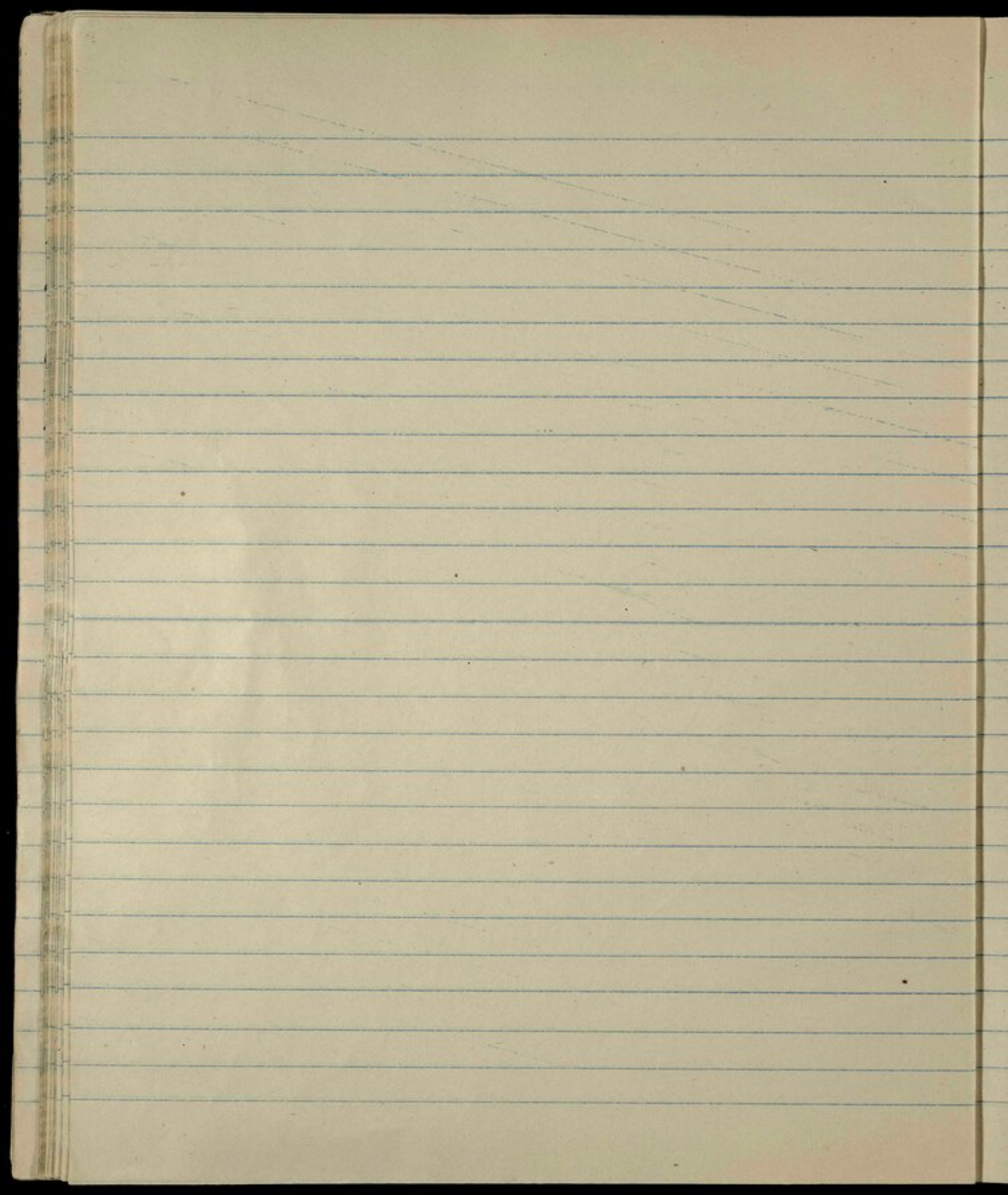
on 11th Nov, to arrive in London on 12 November. They were met
by Sachs who divided up everything more efficiently.

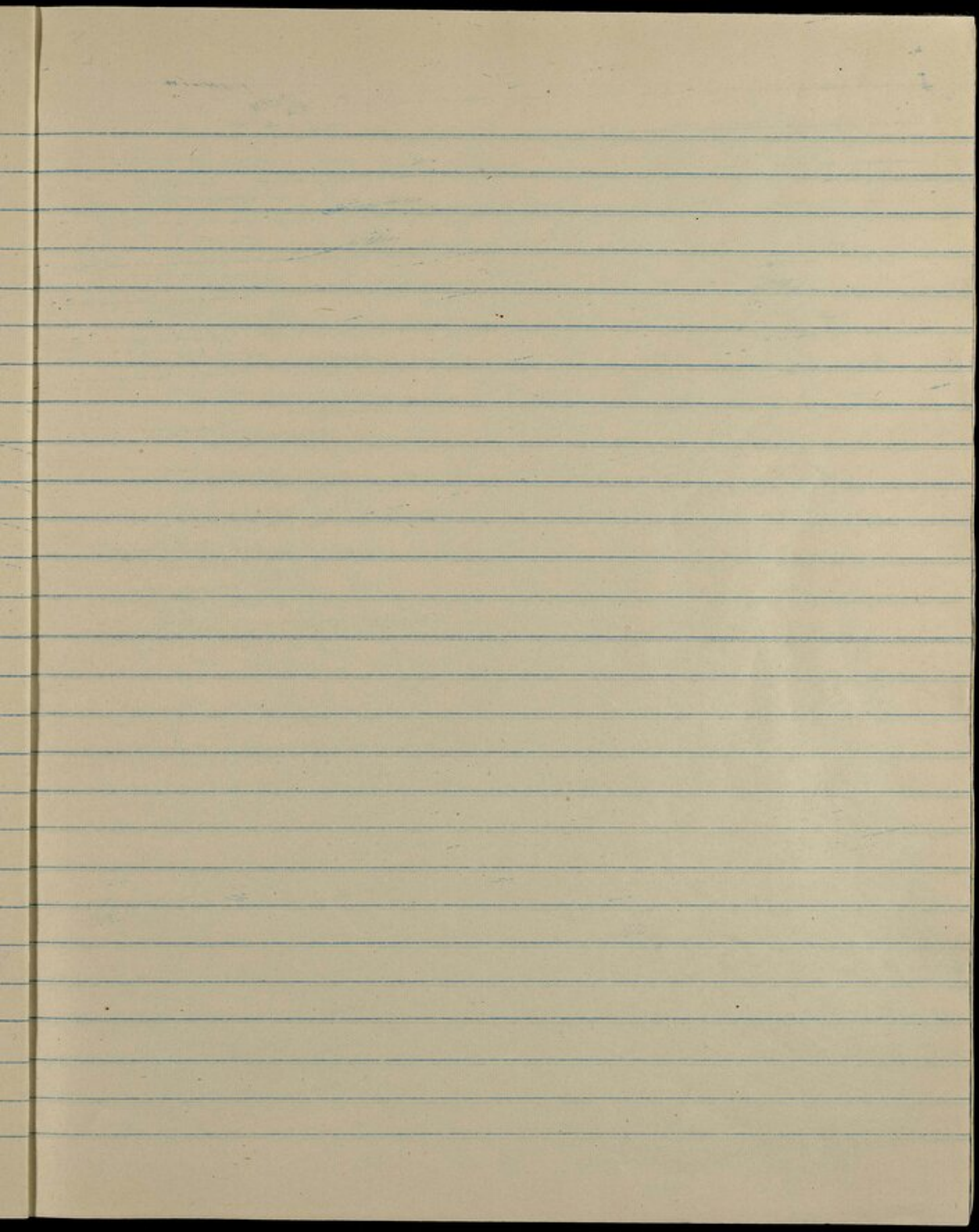


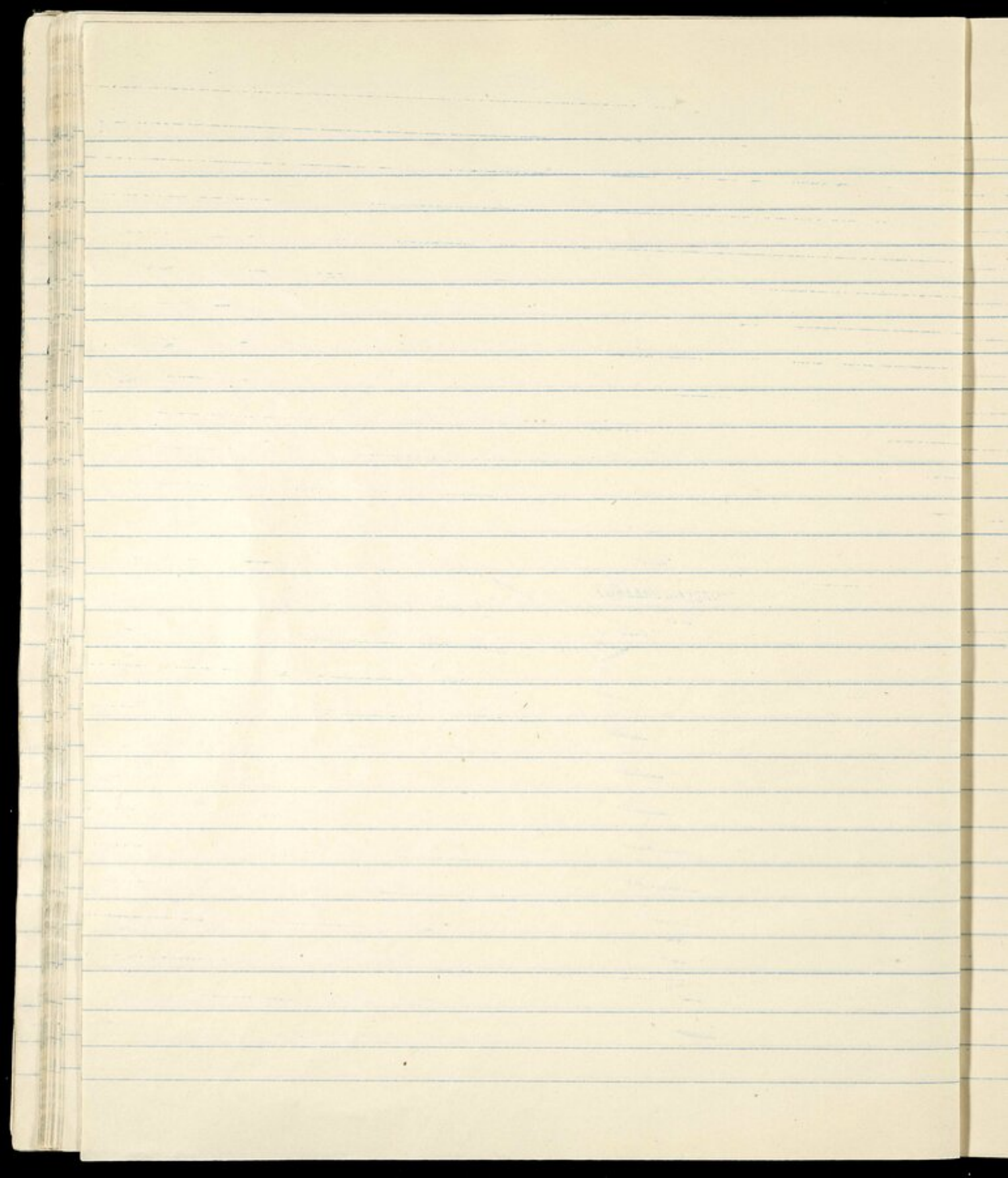


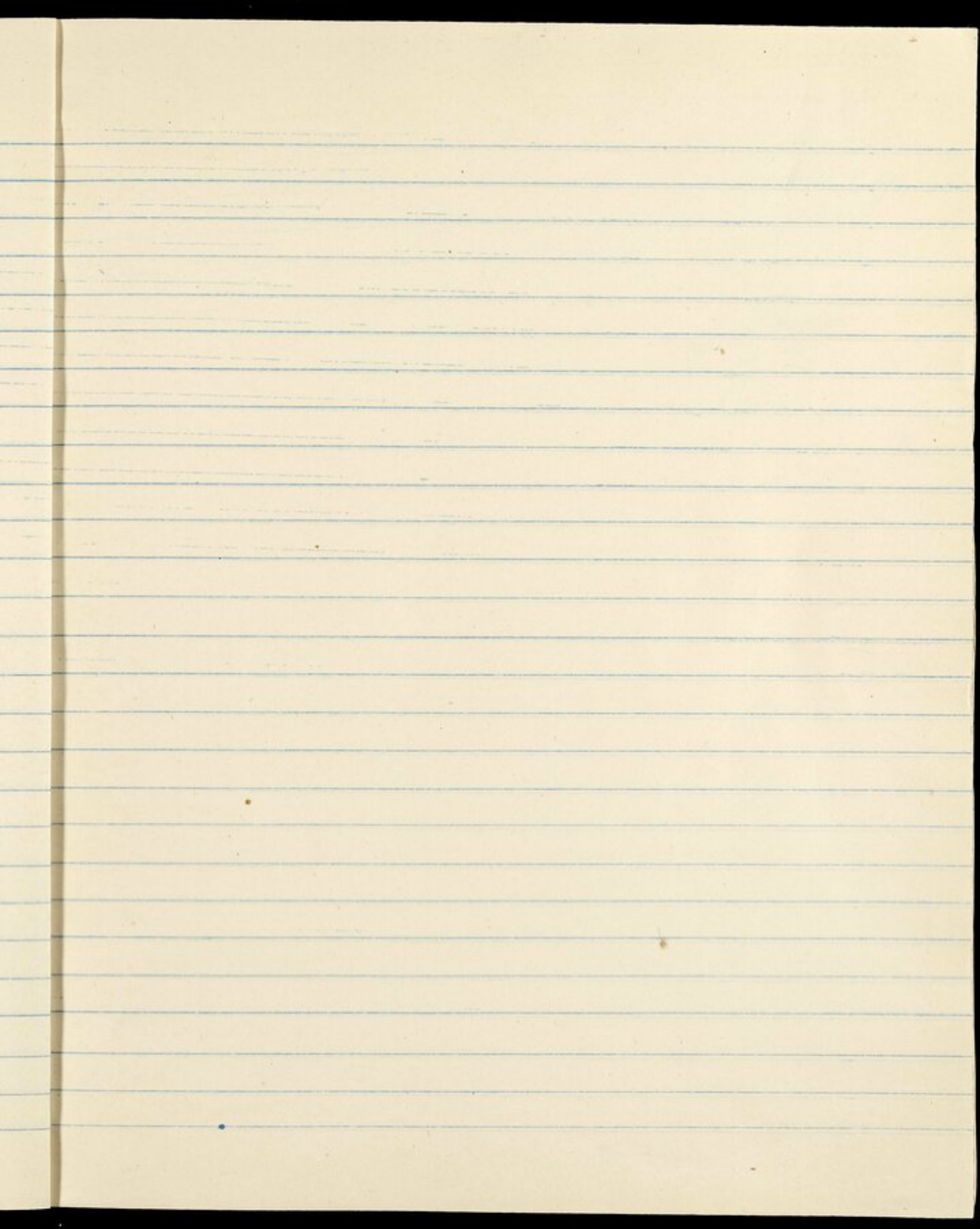


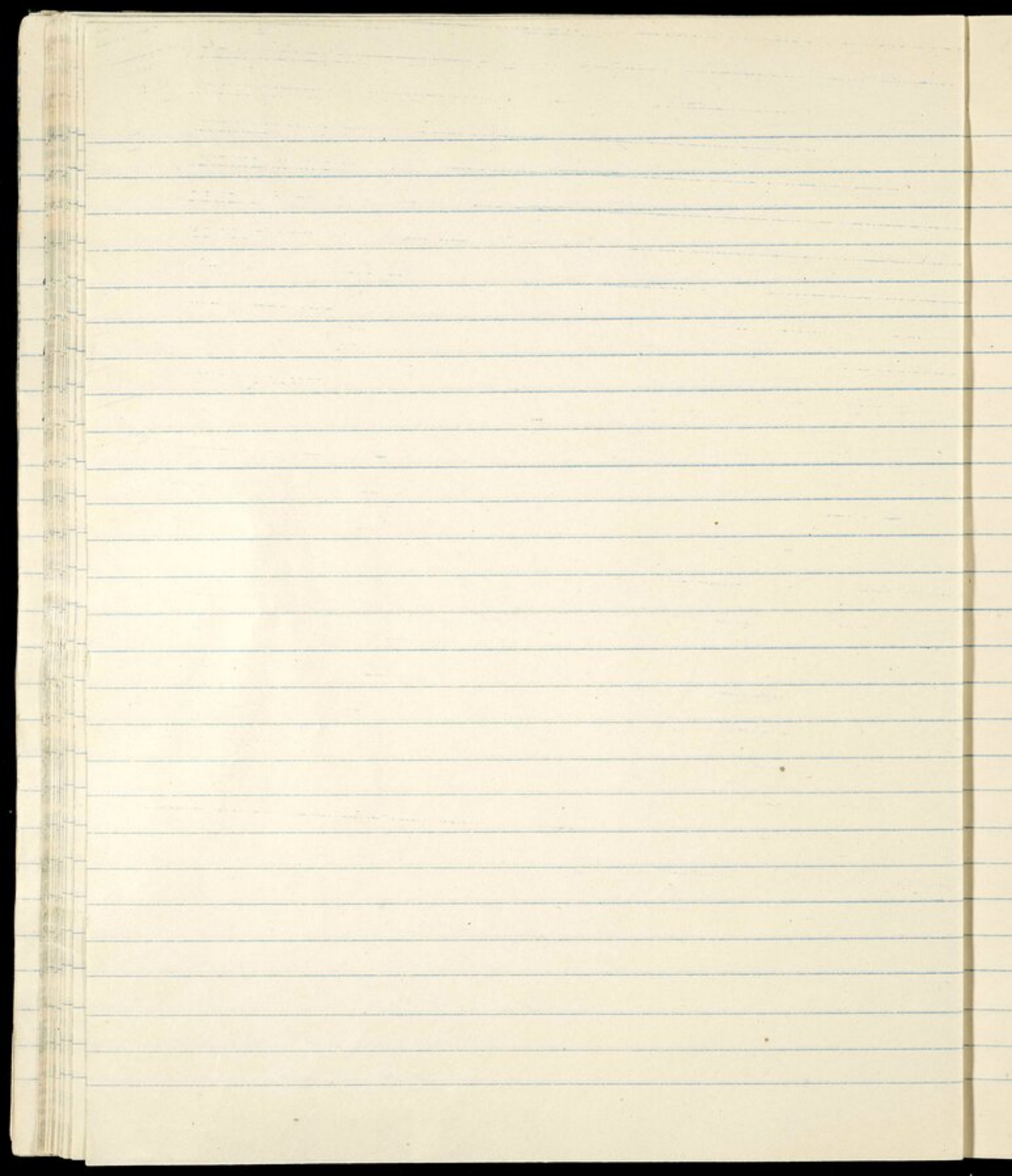


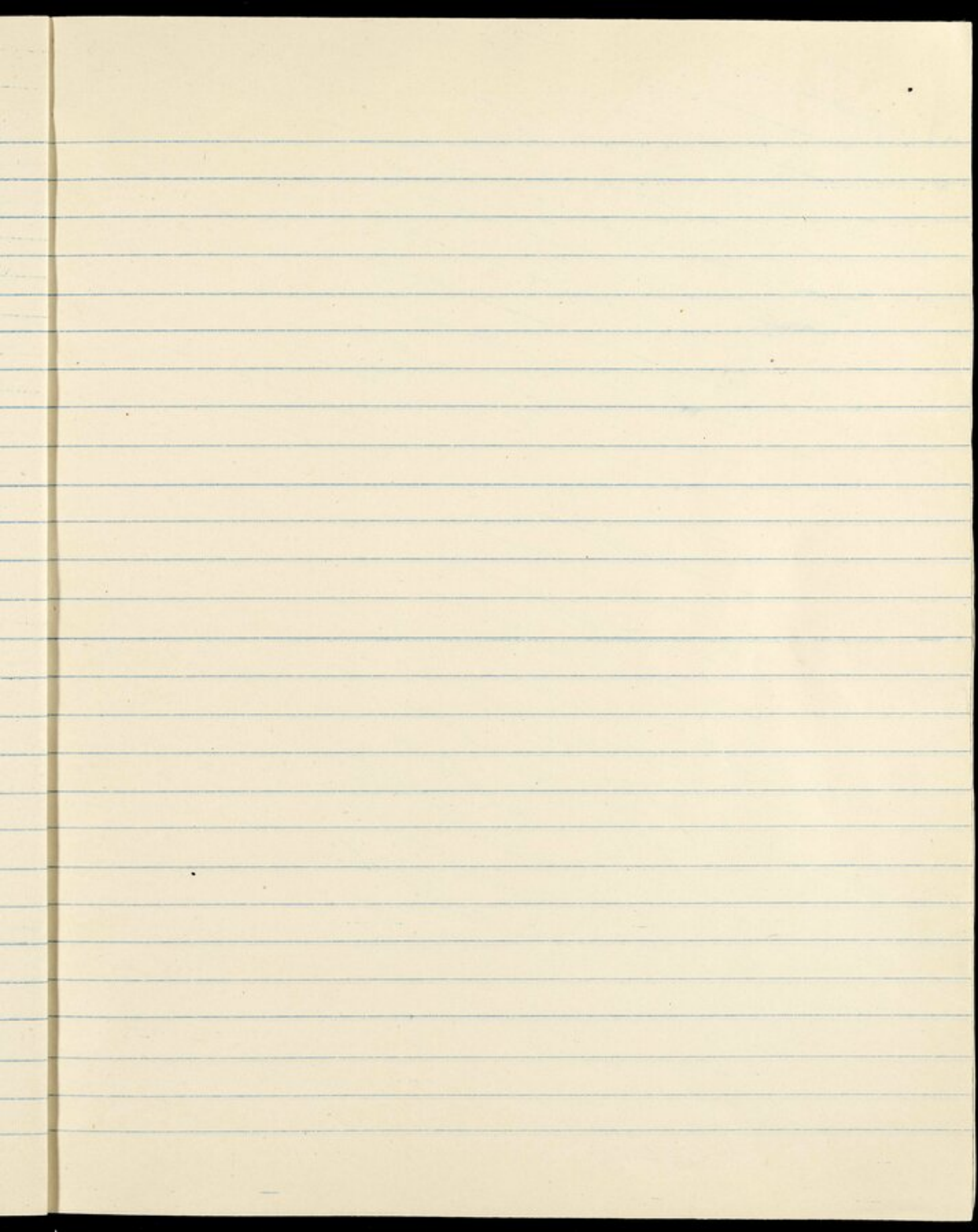


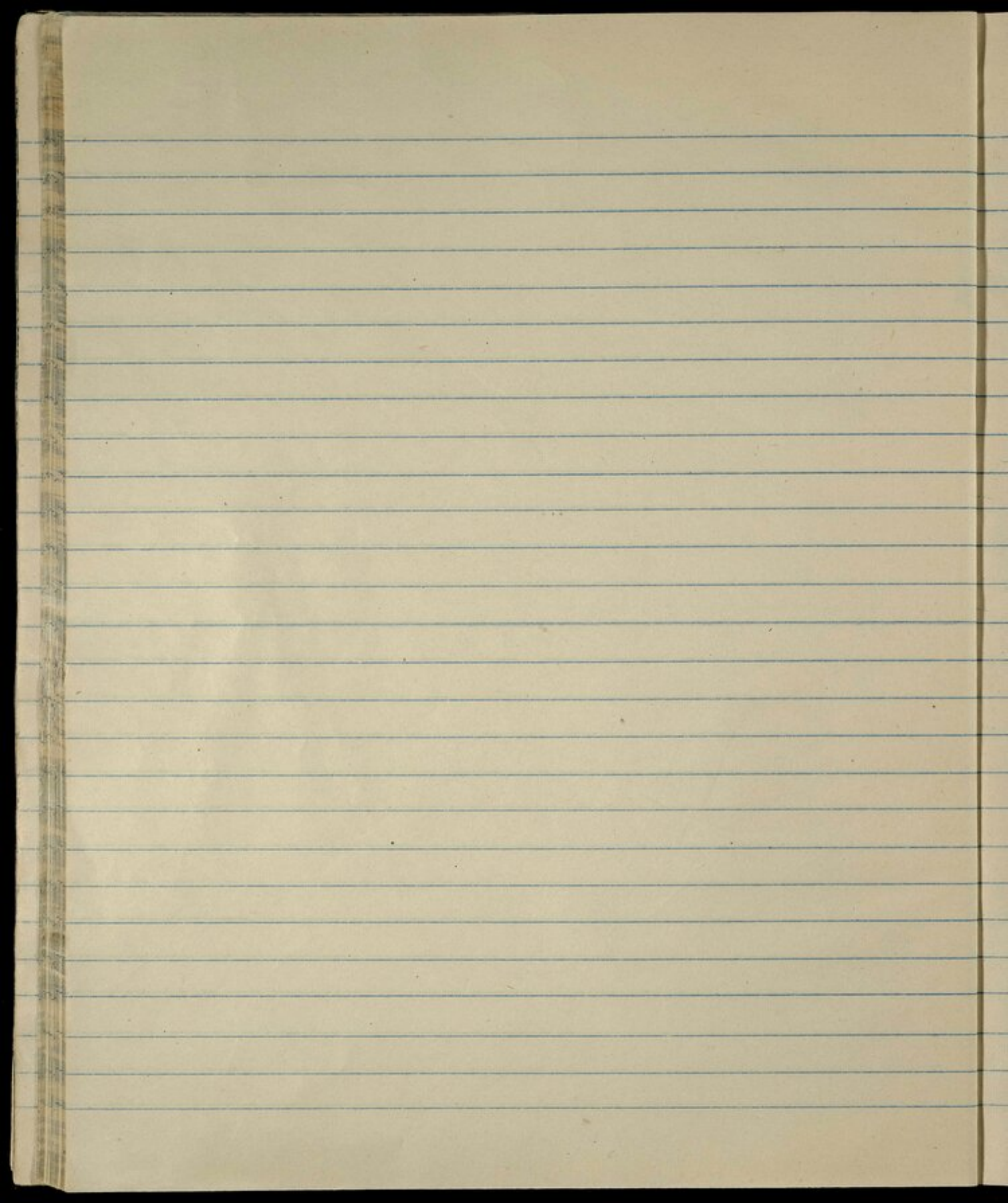


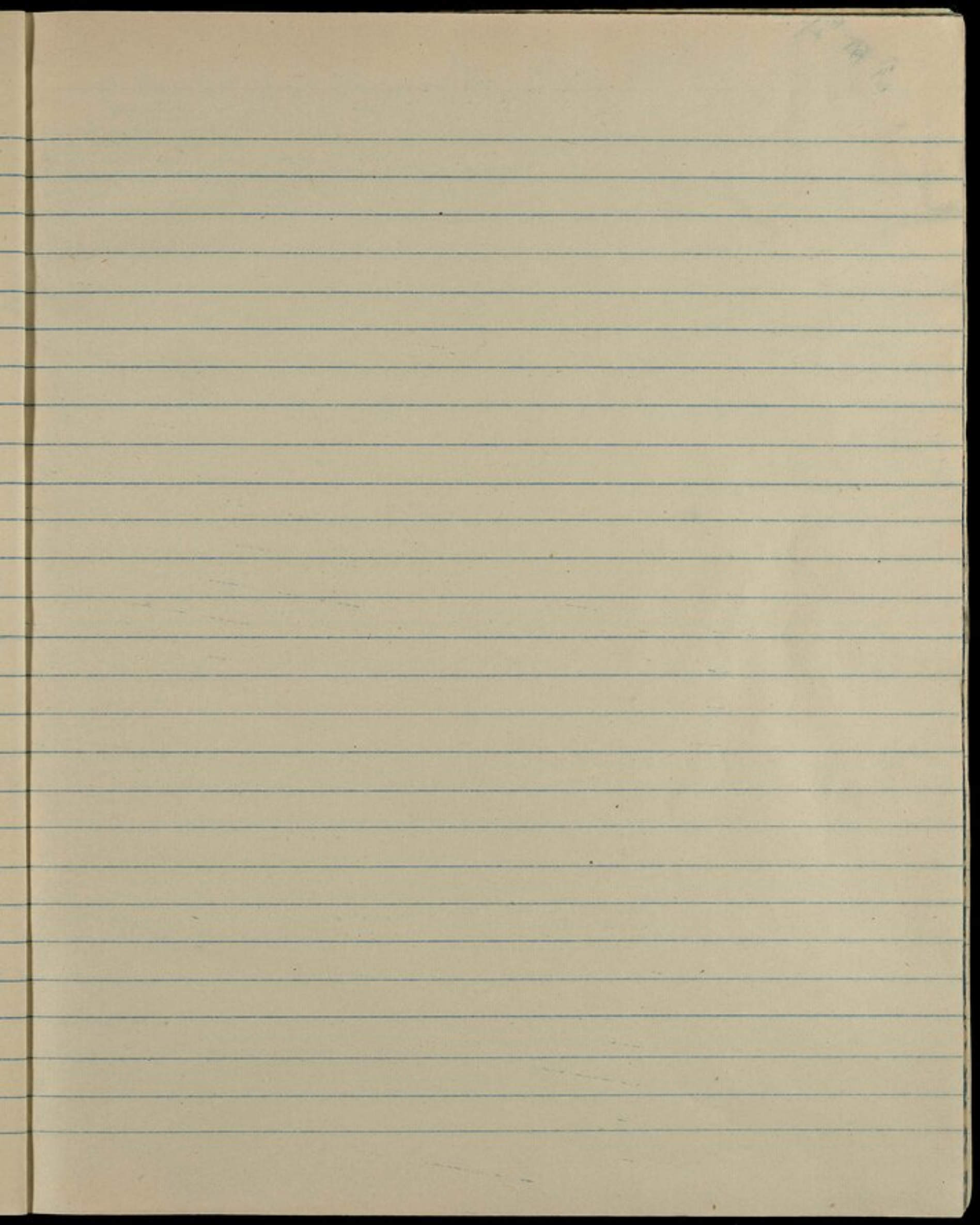


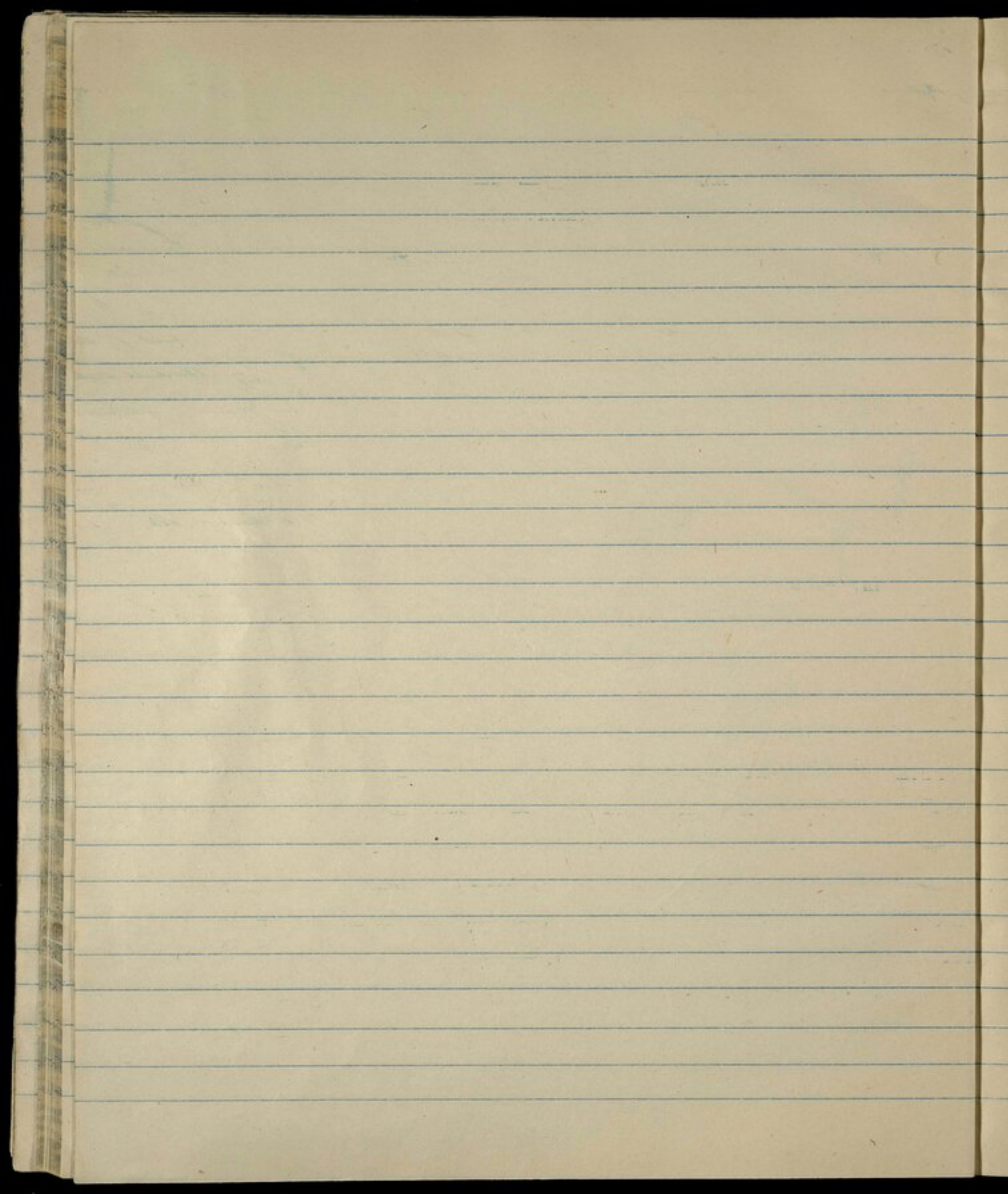


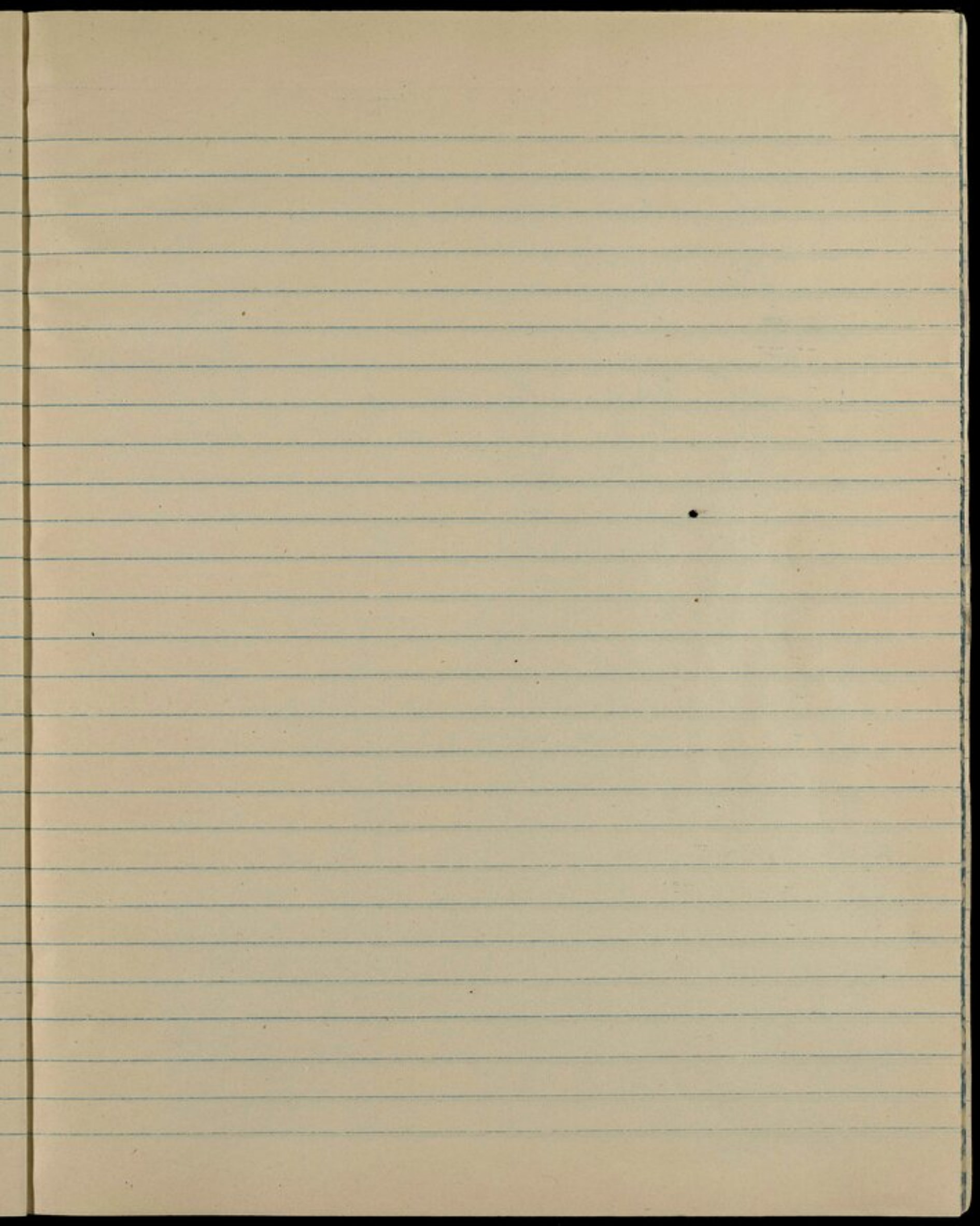


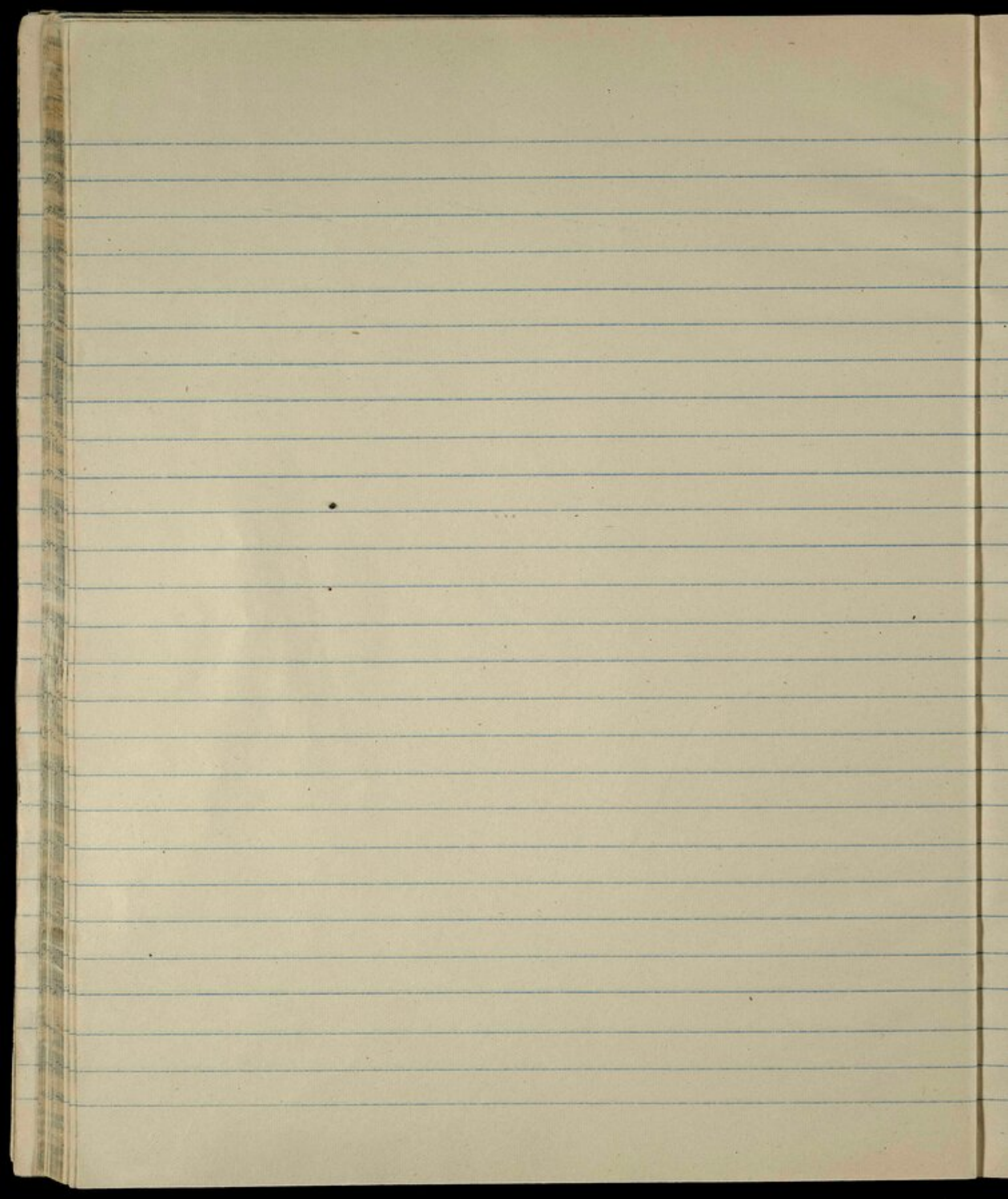


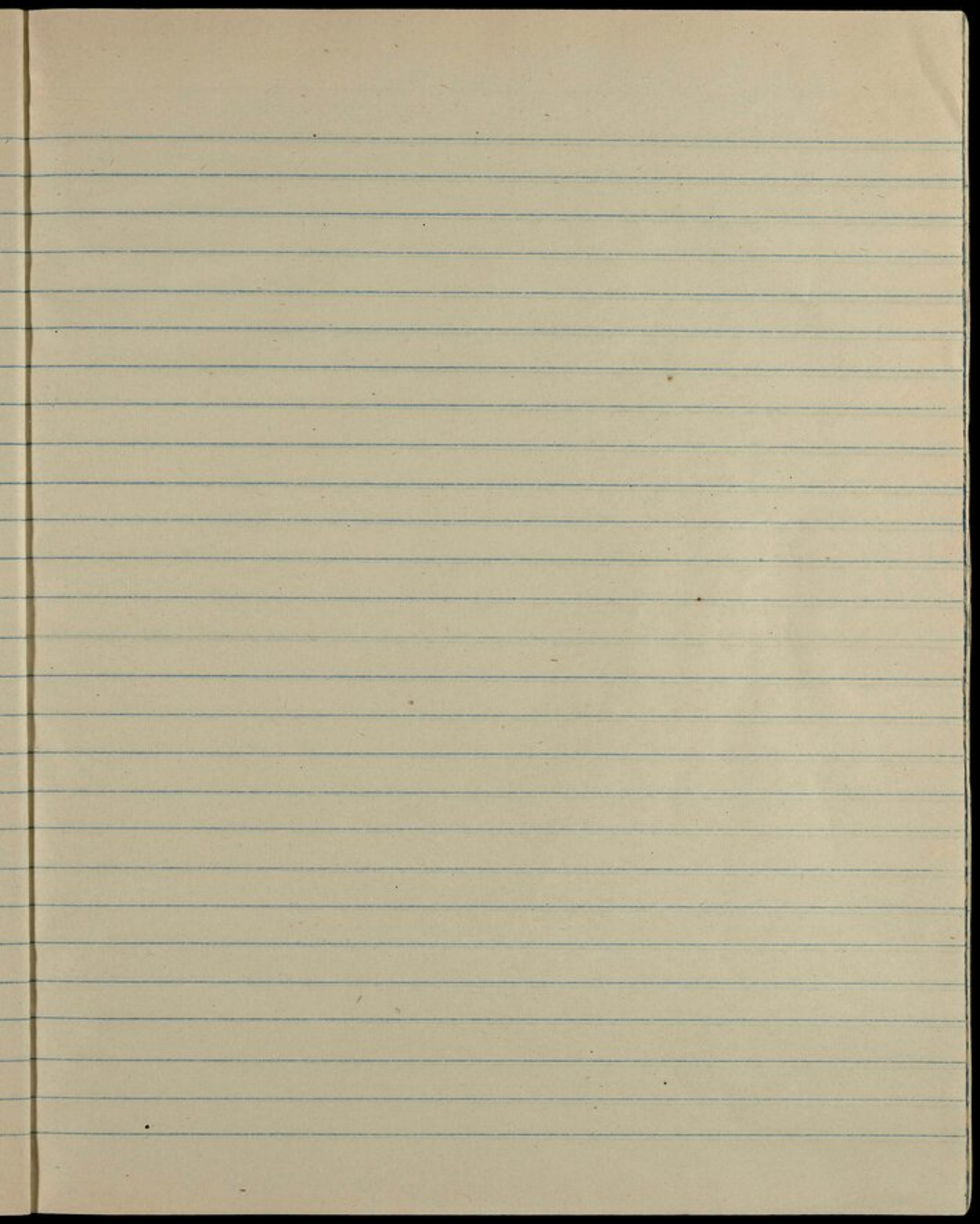


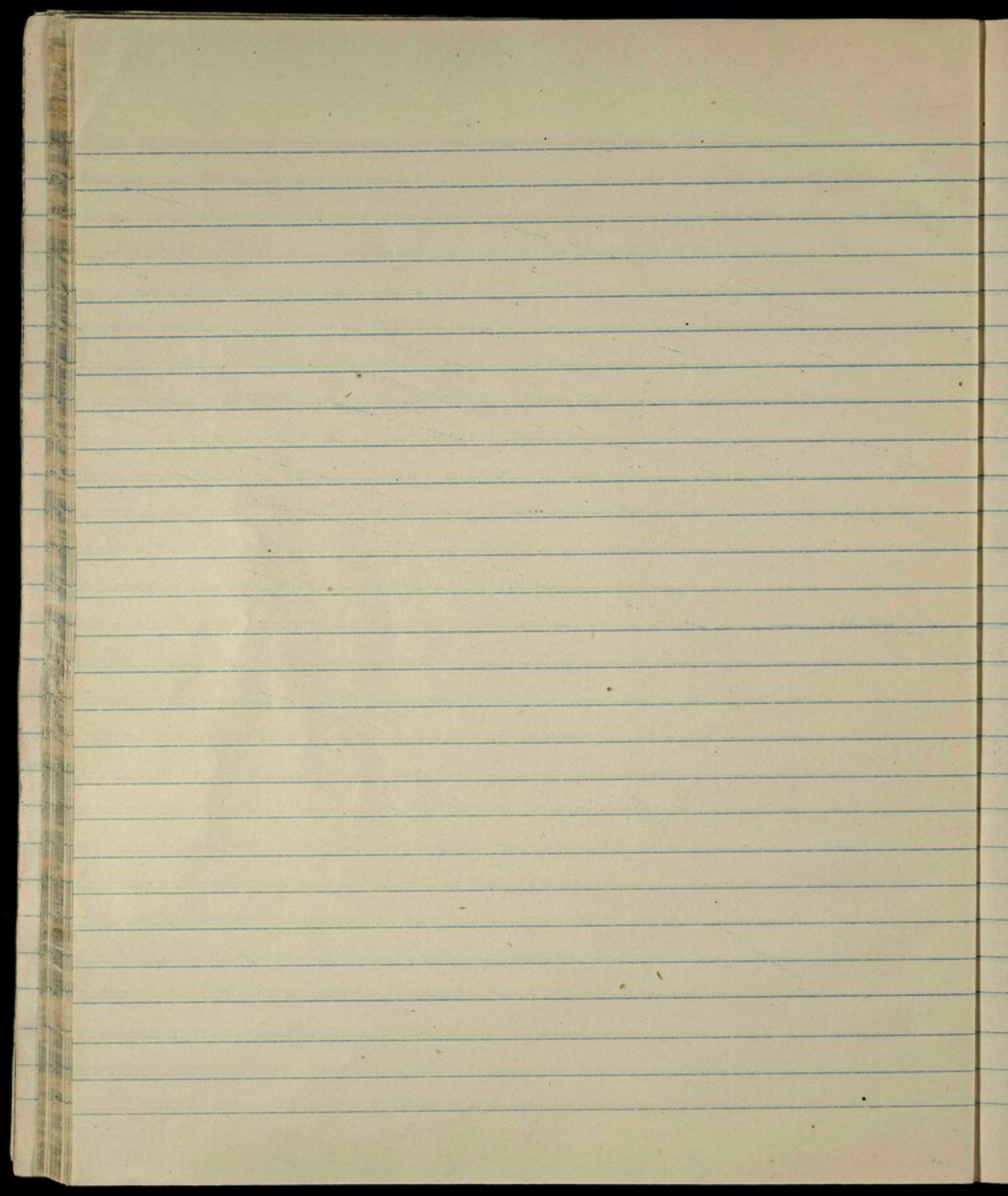


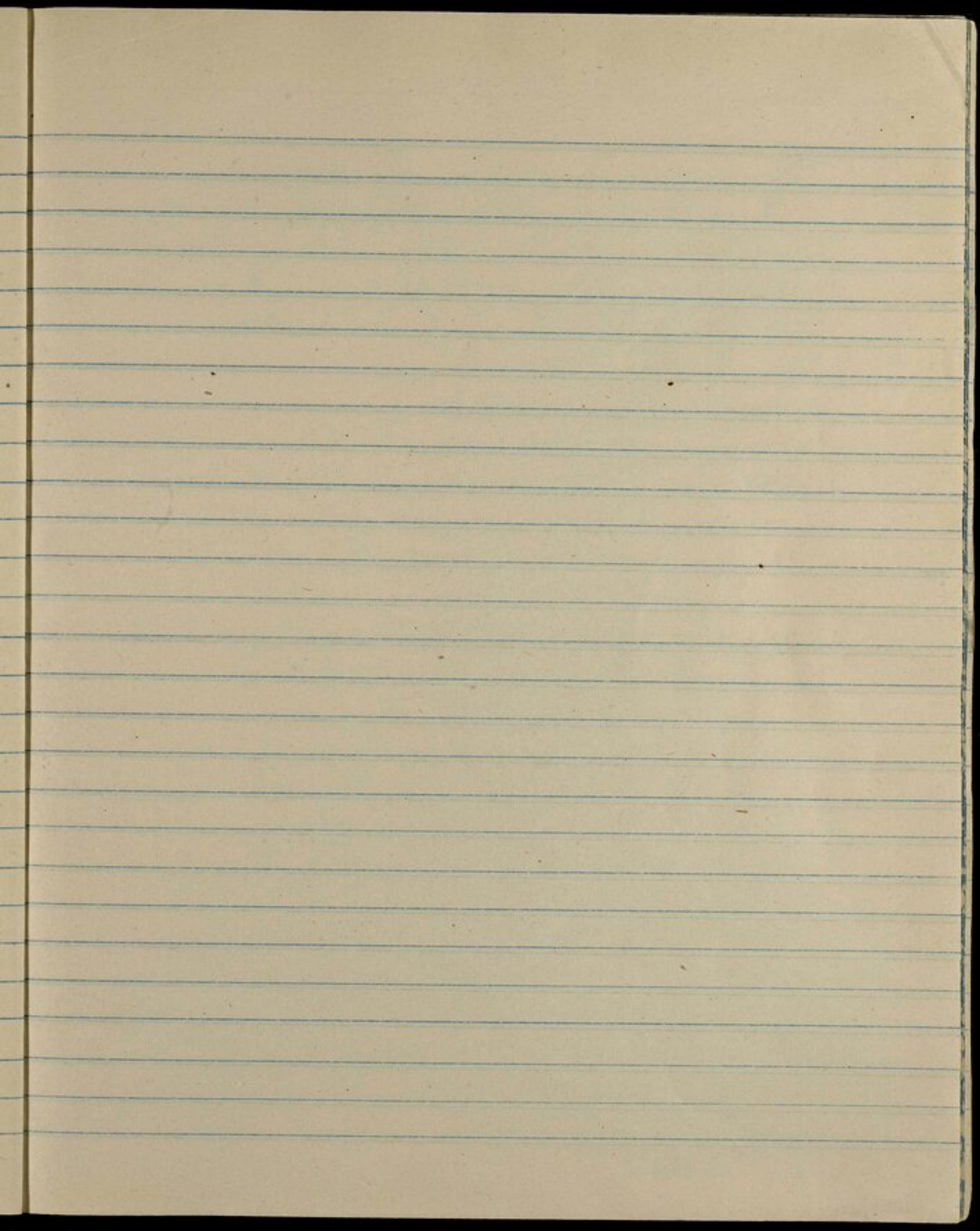


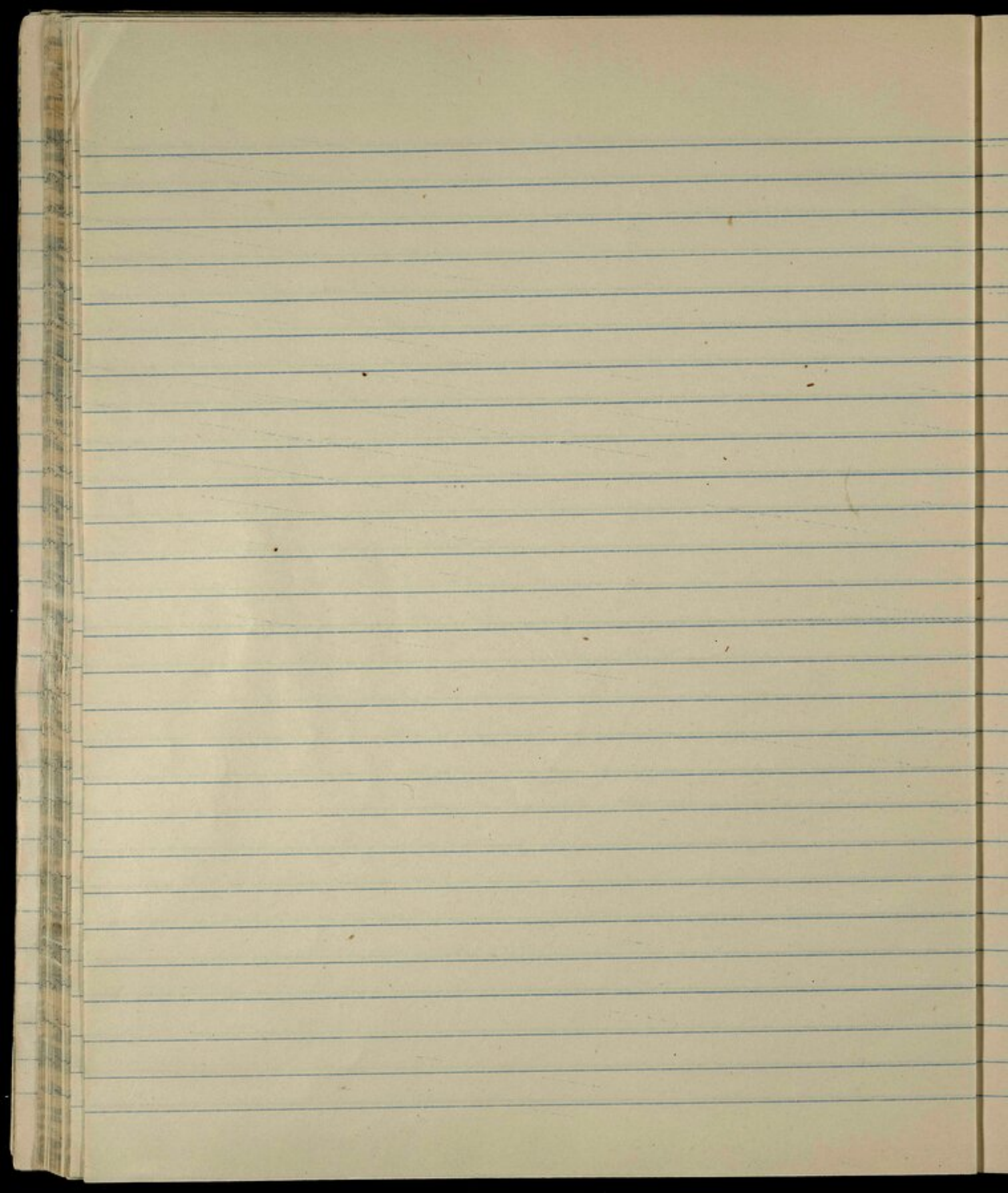


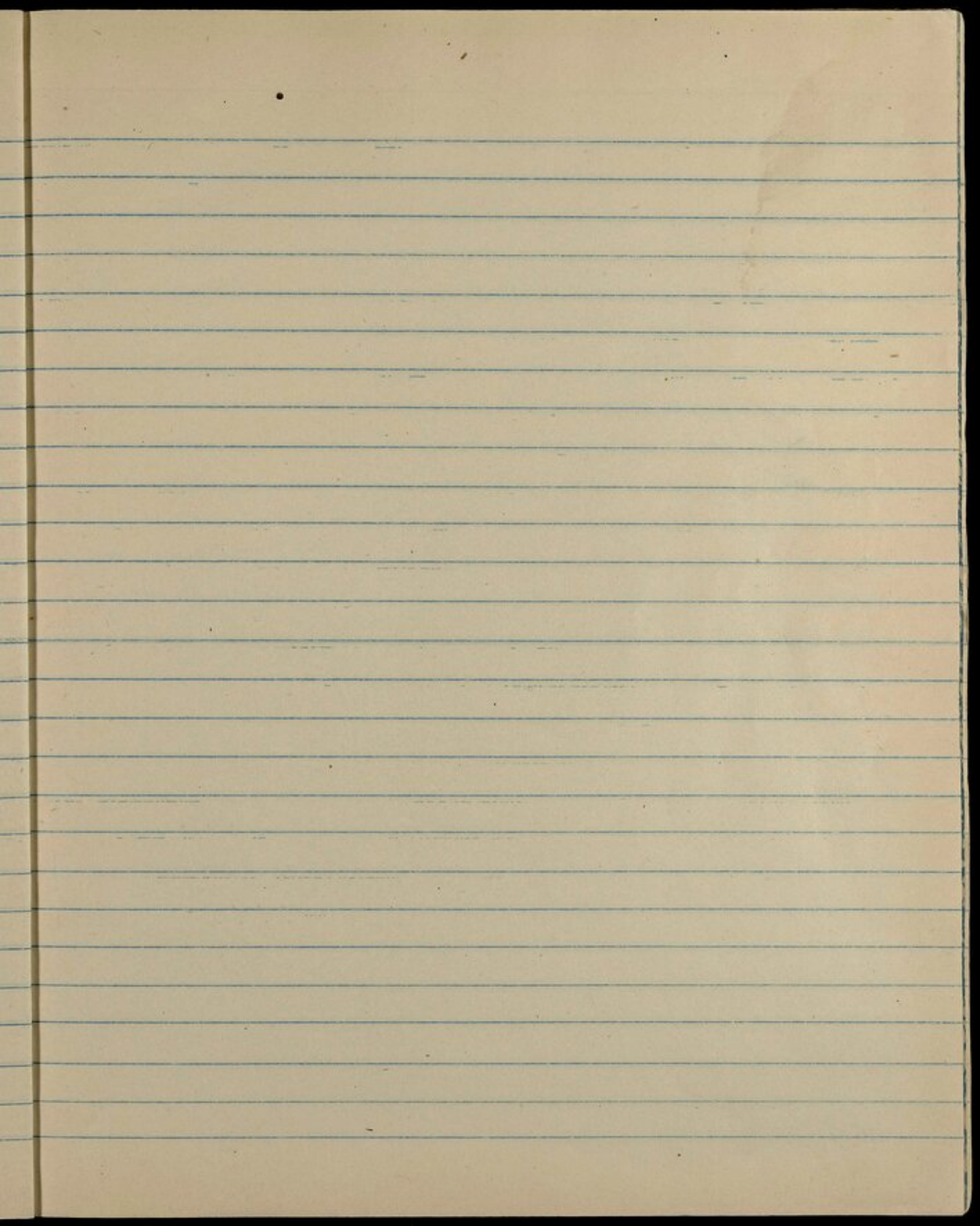


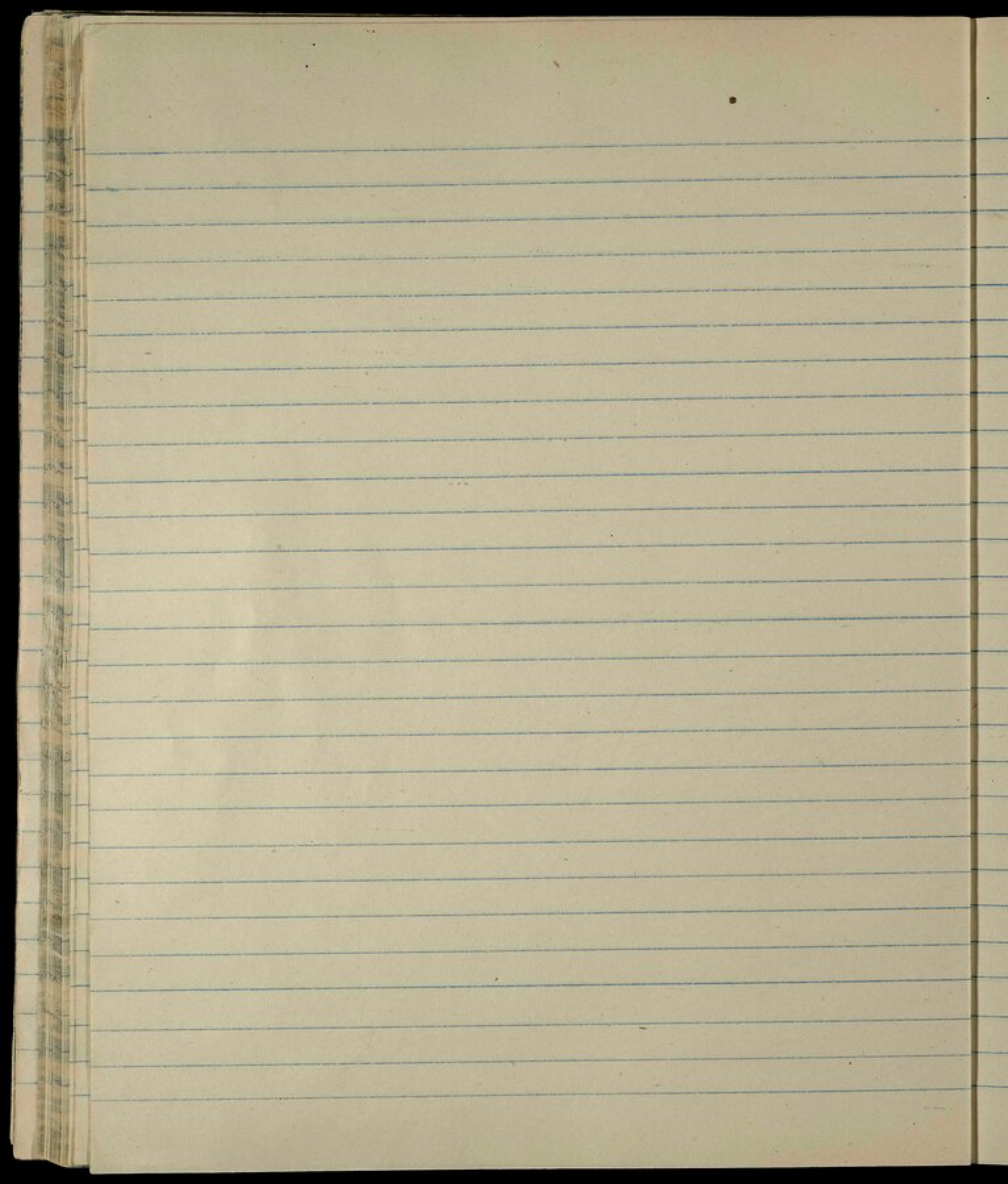


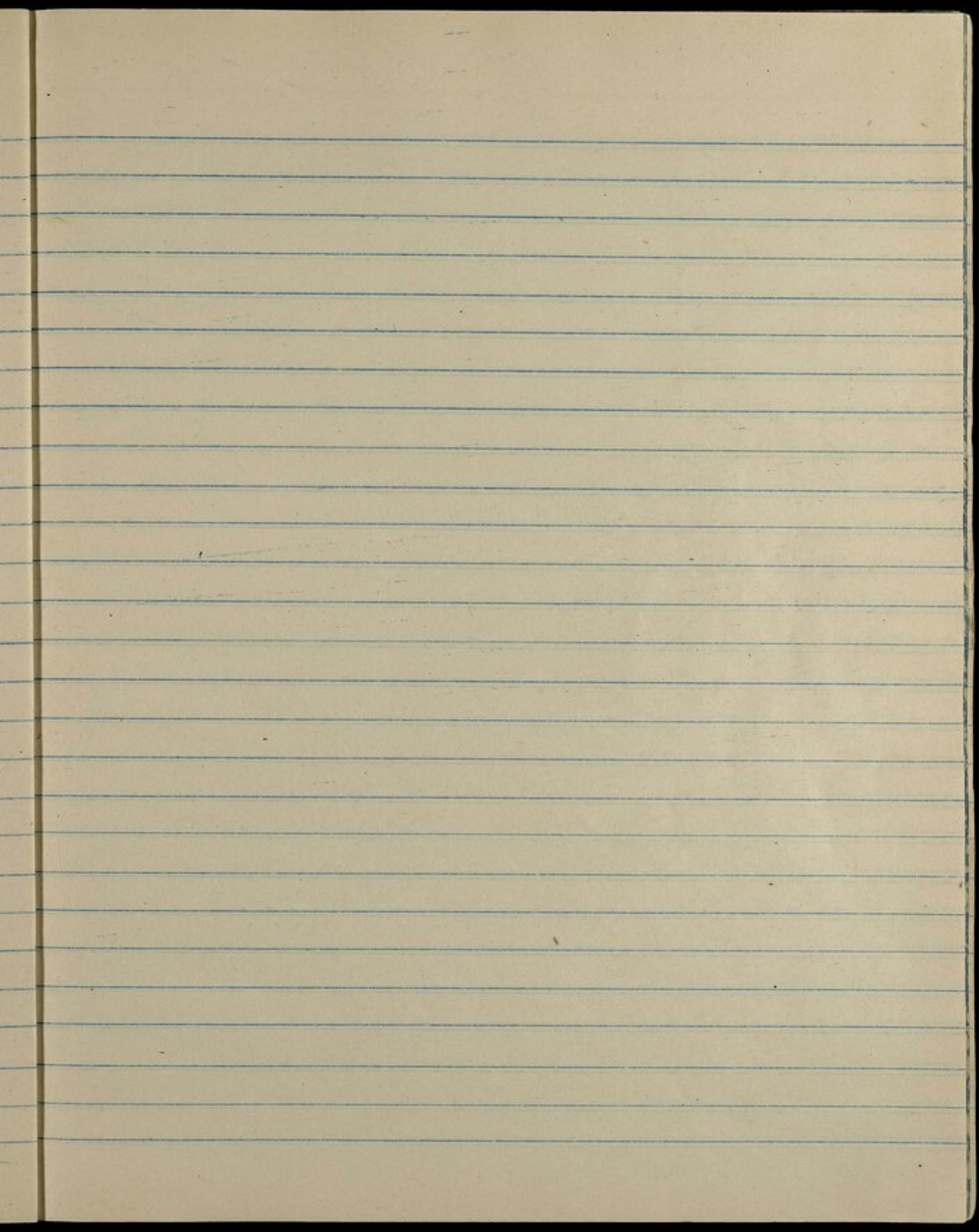


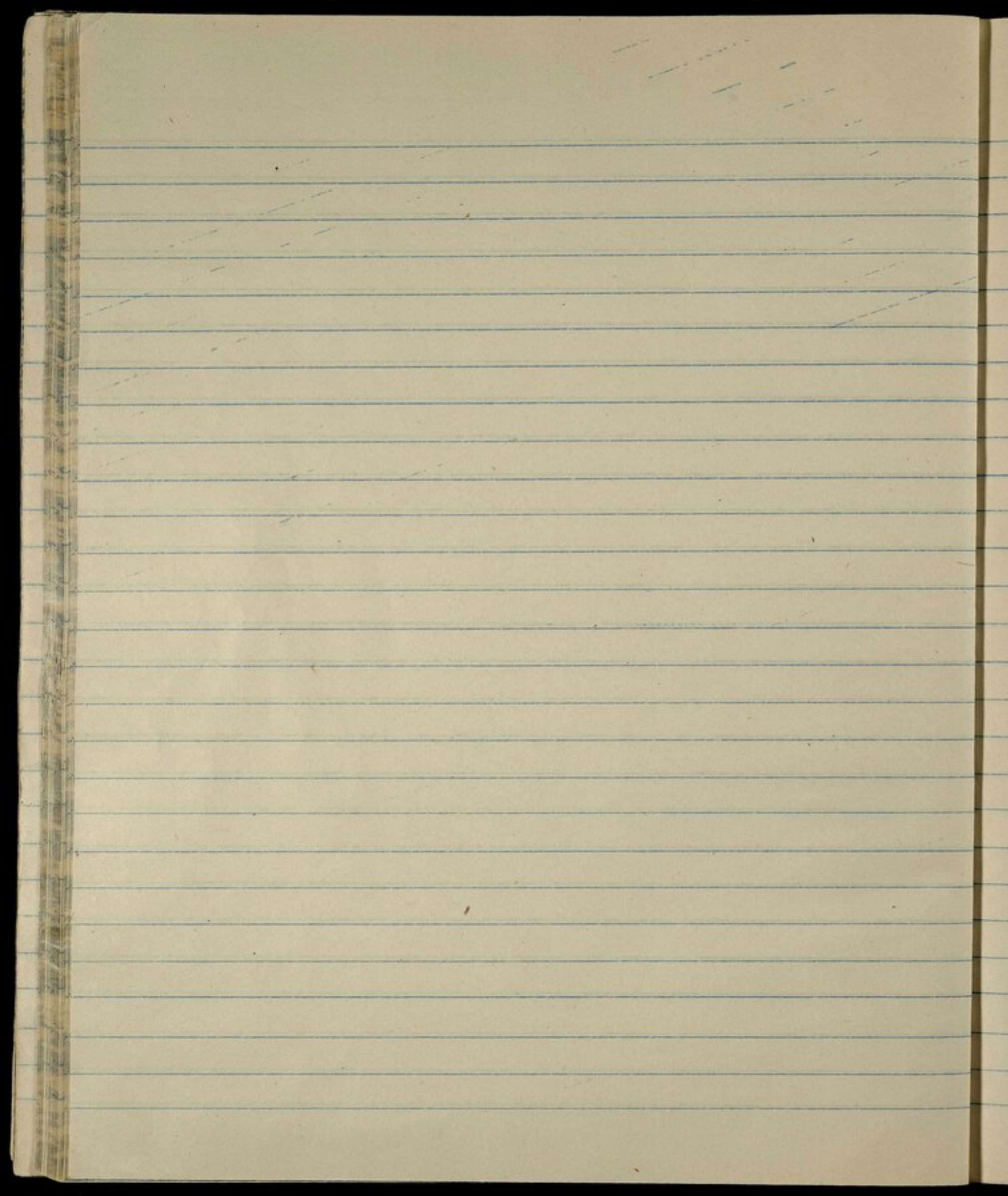


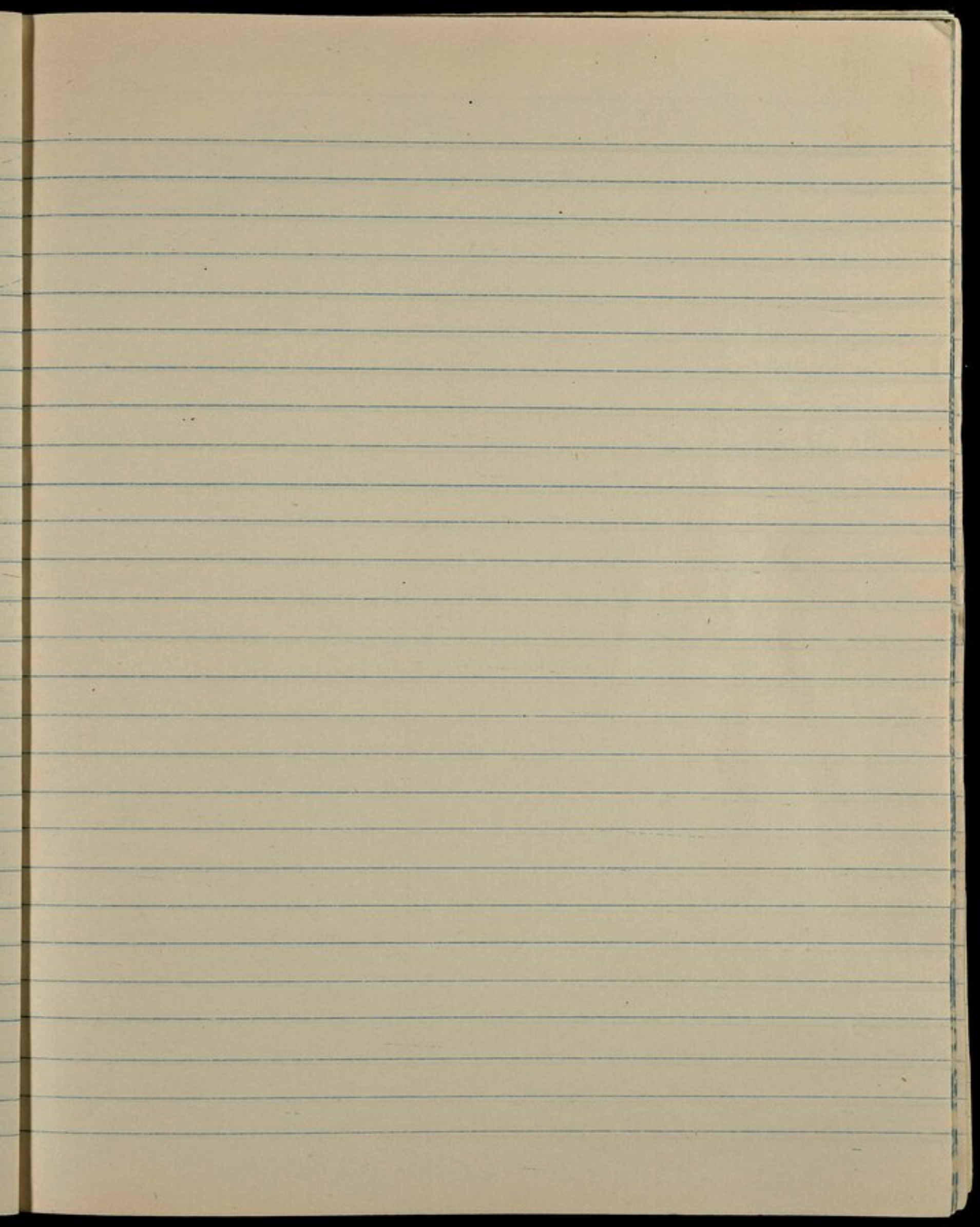


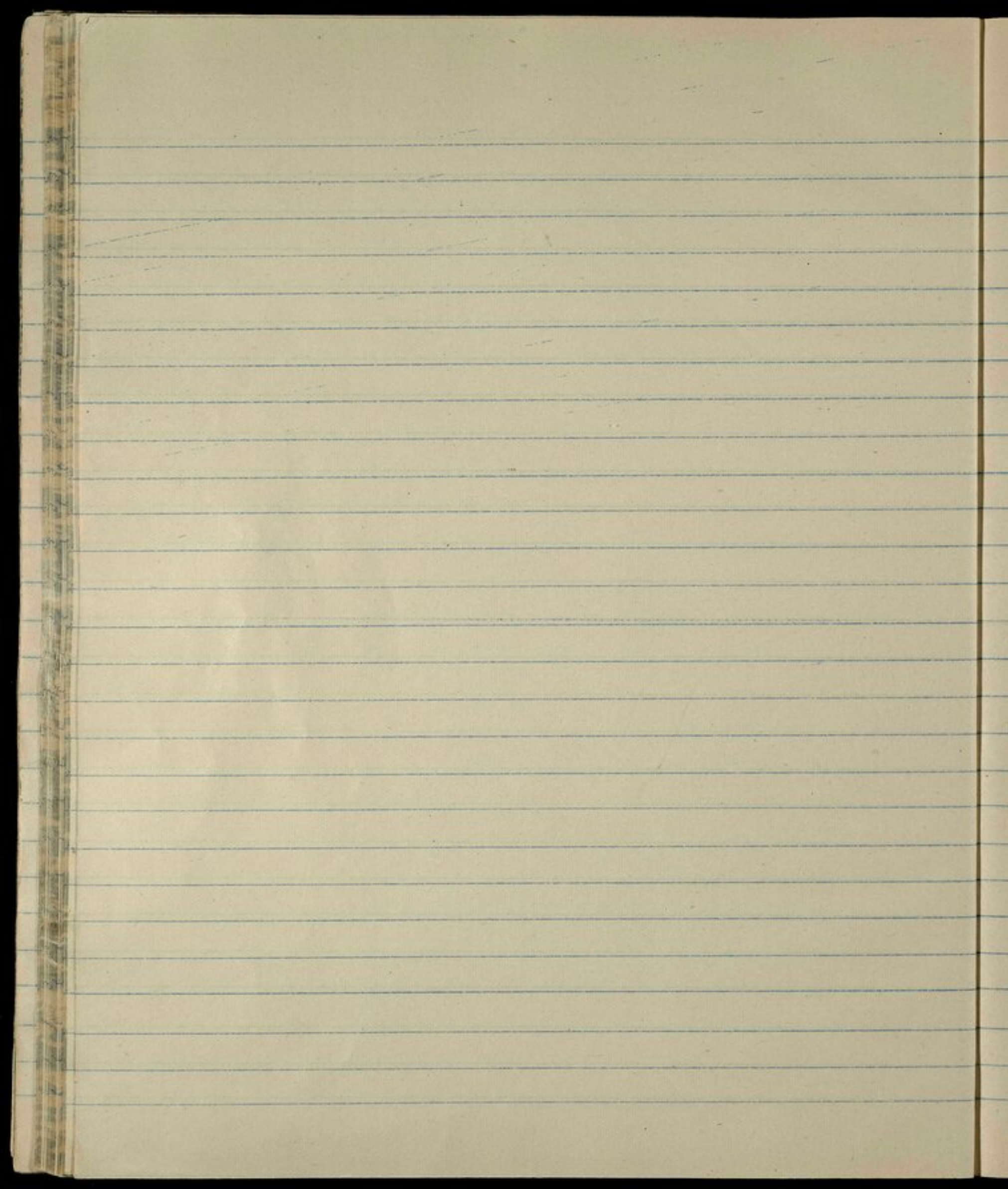


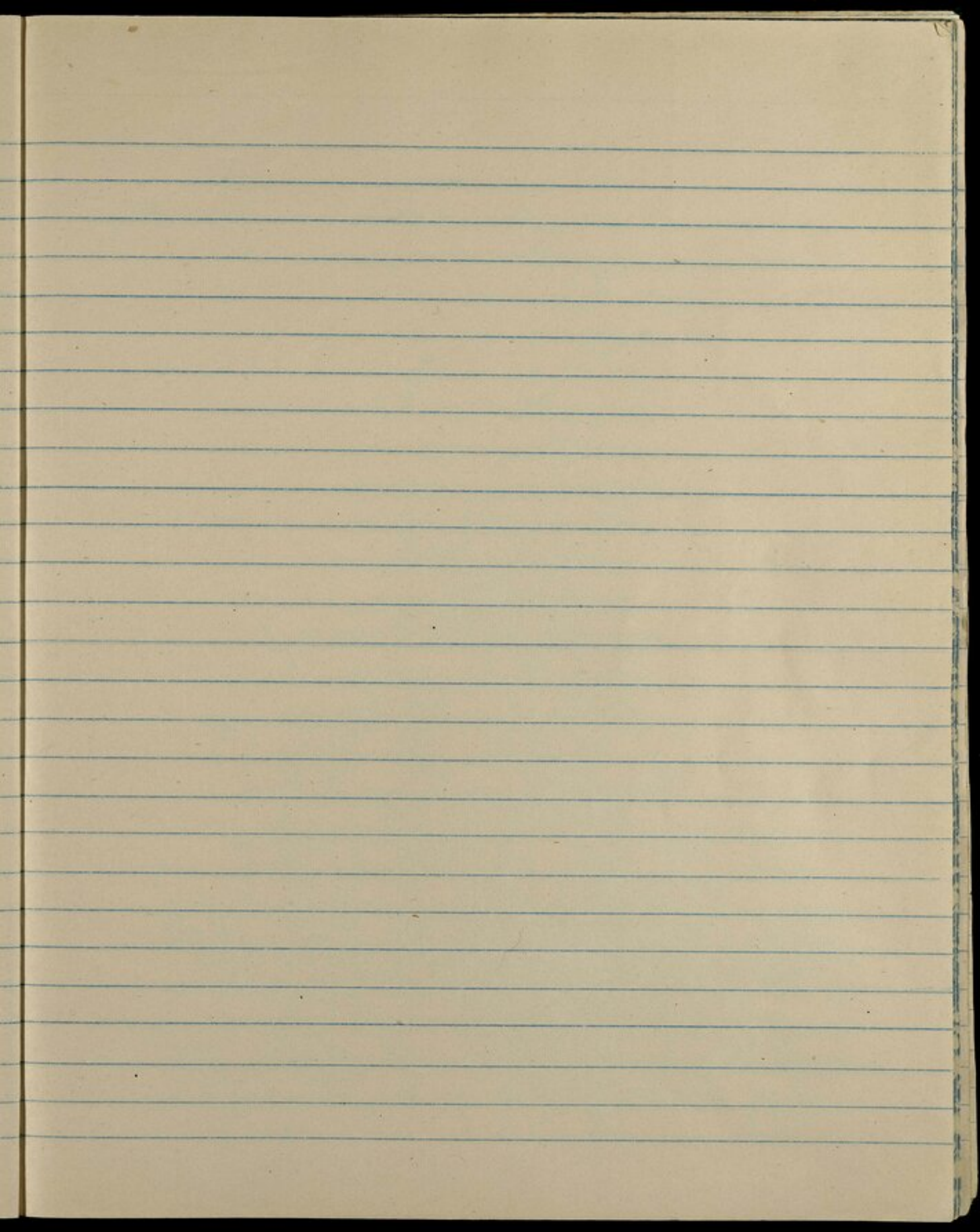


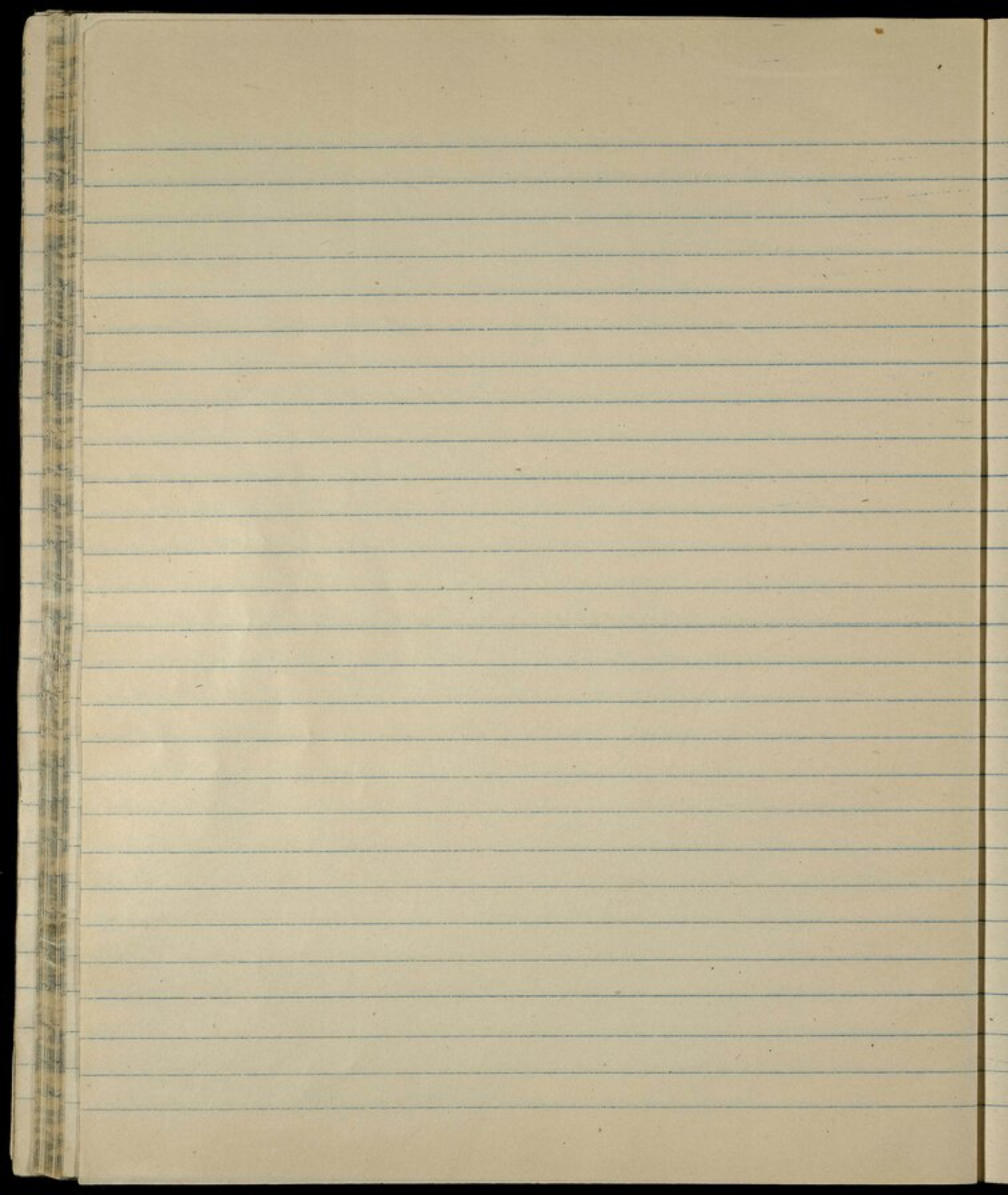


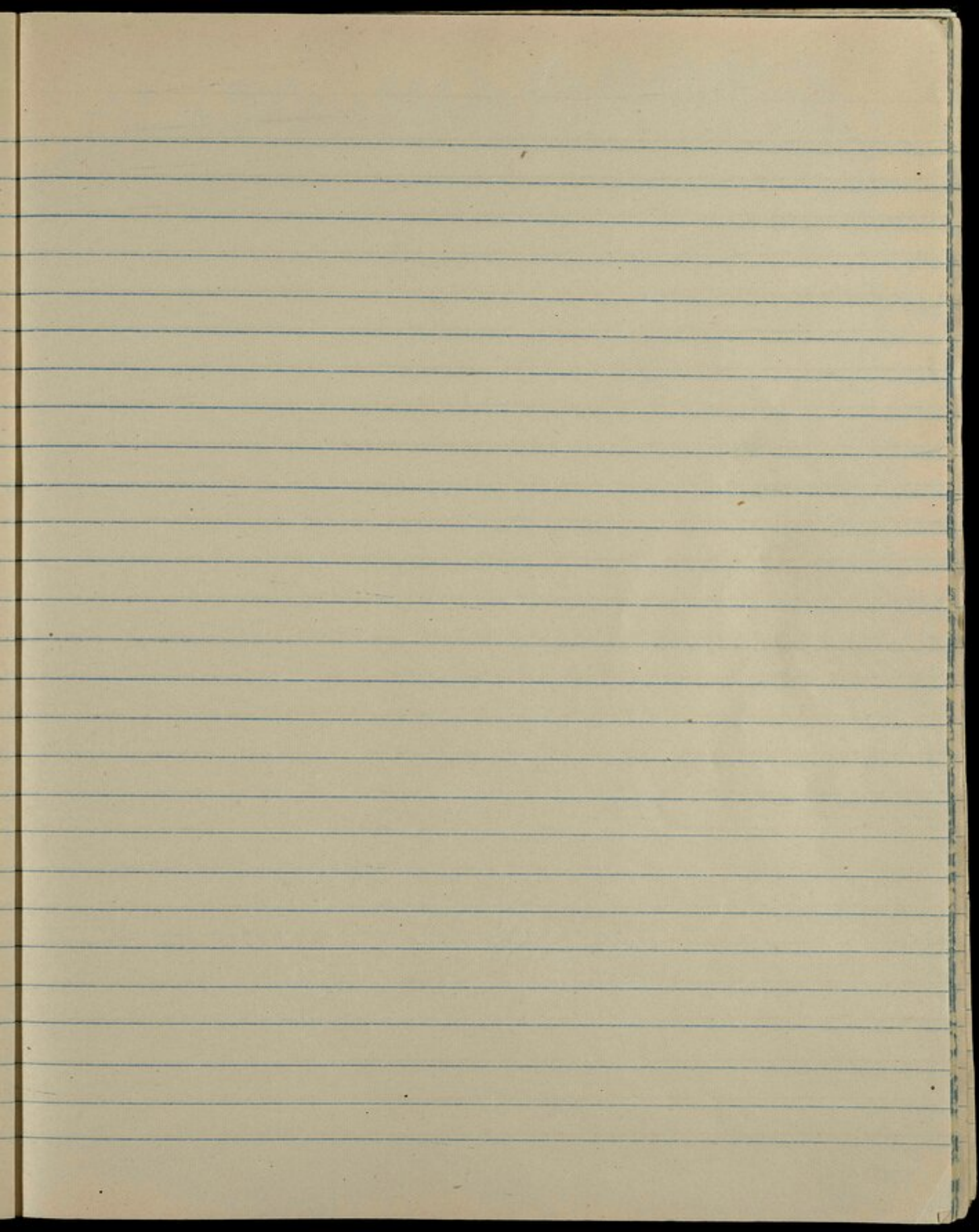


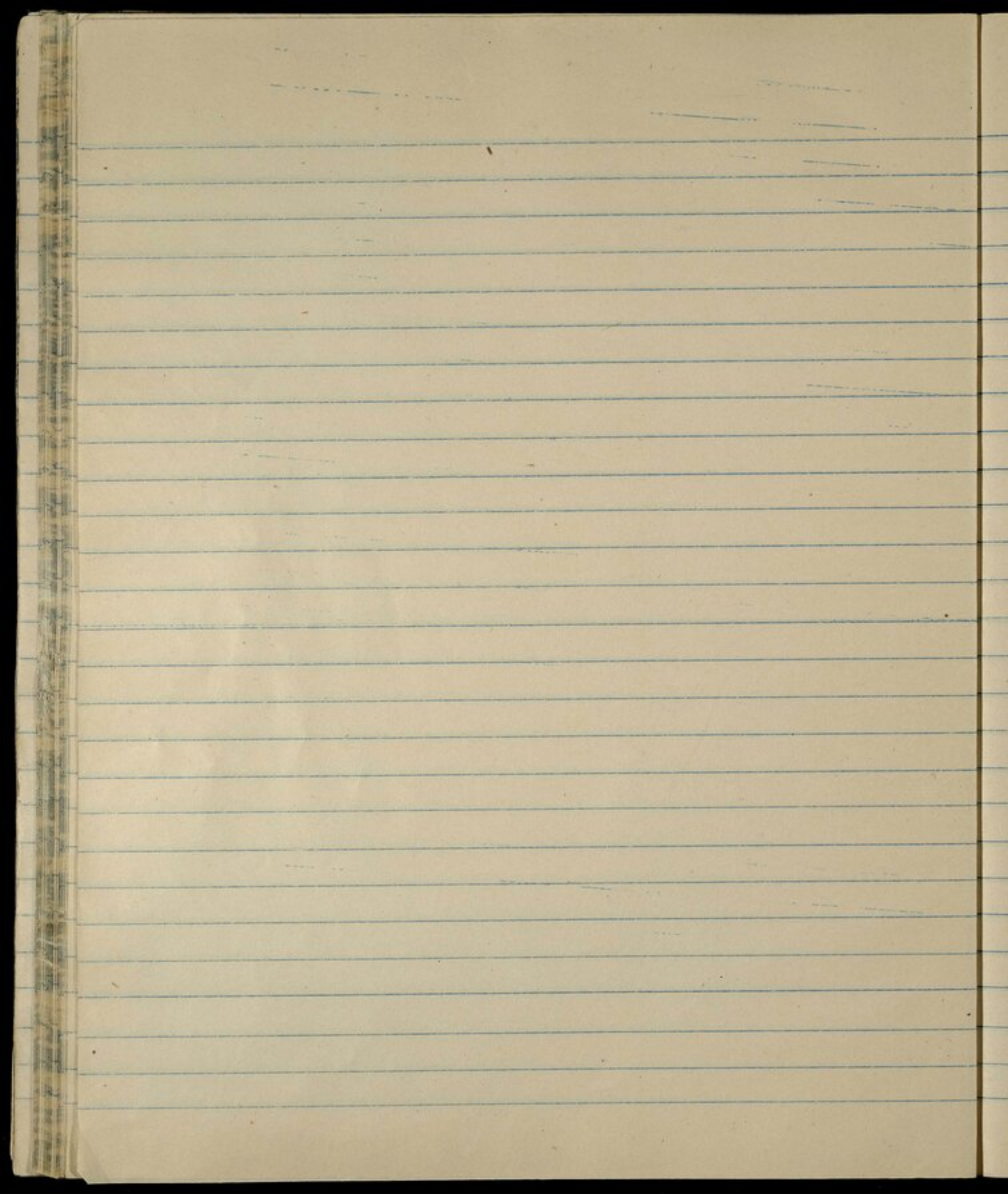


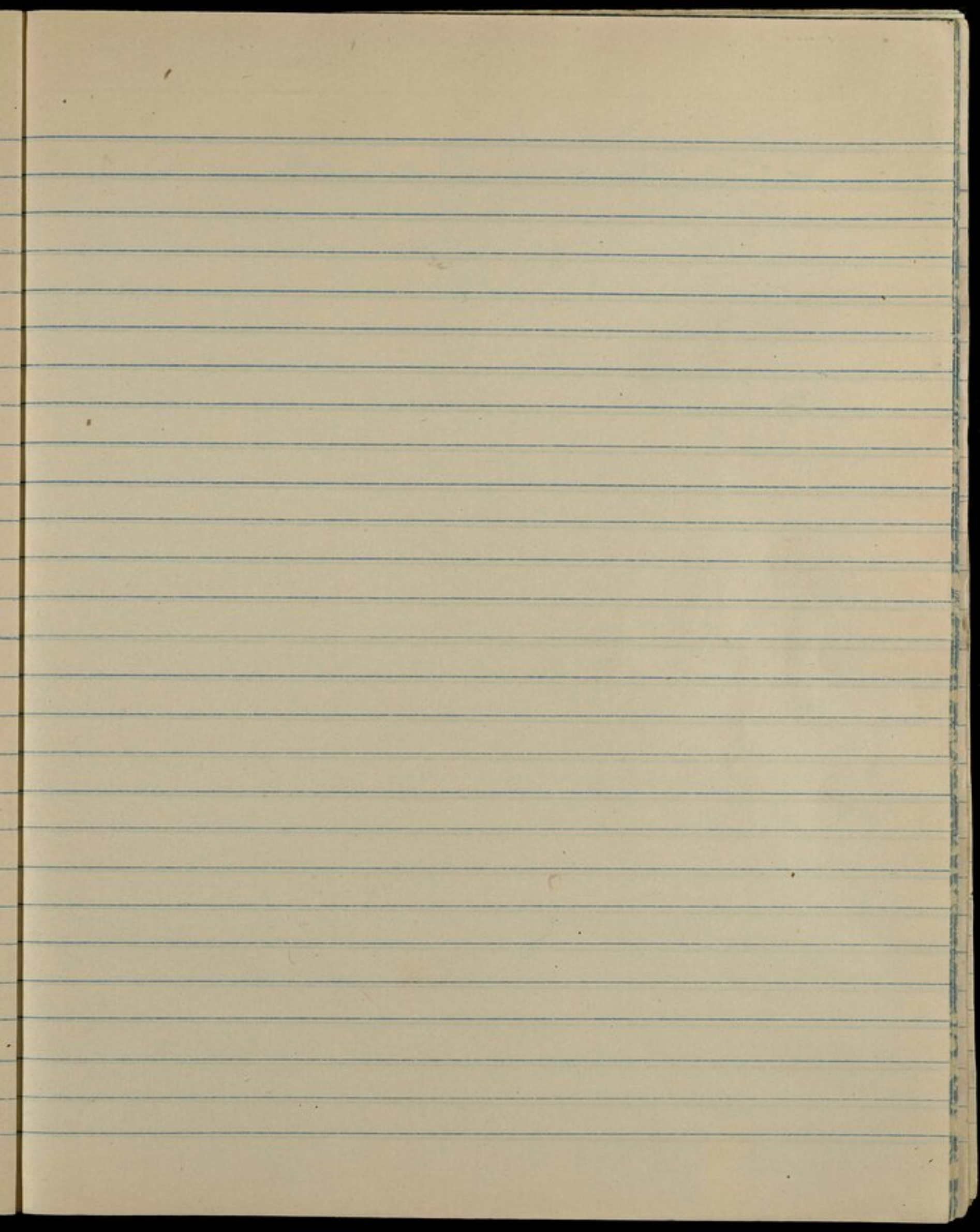


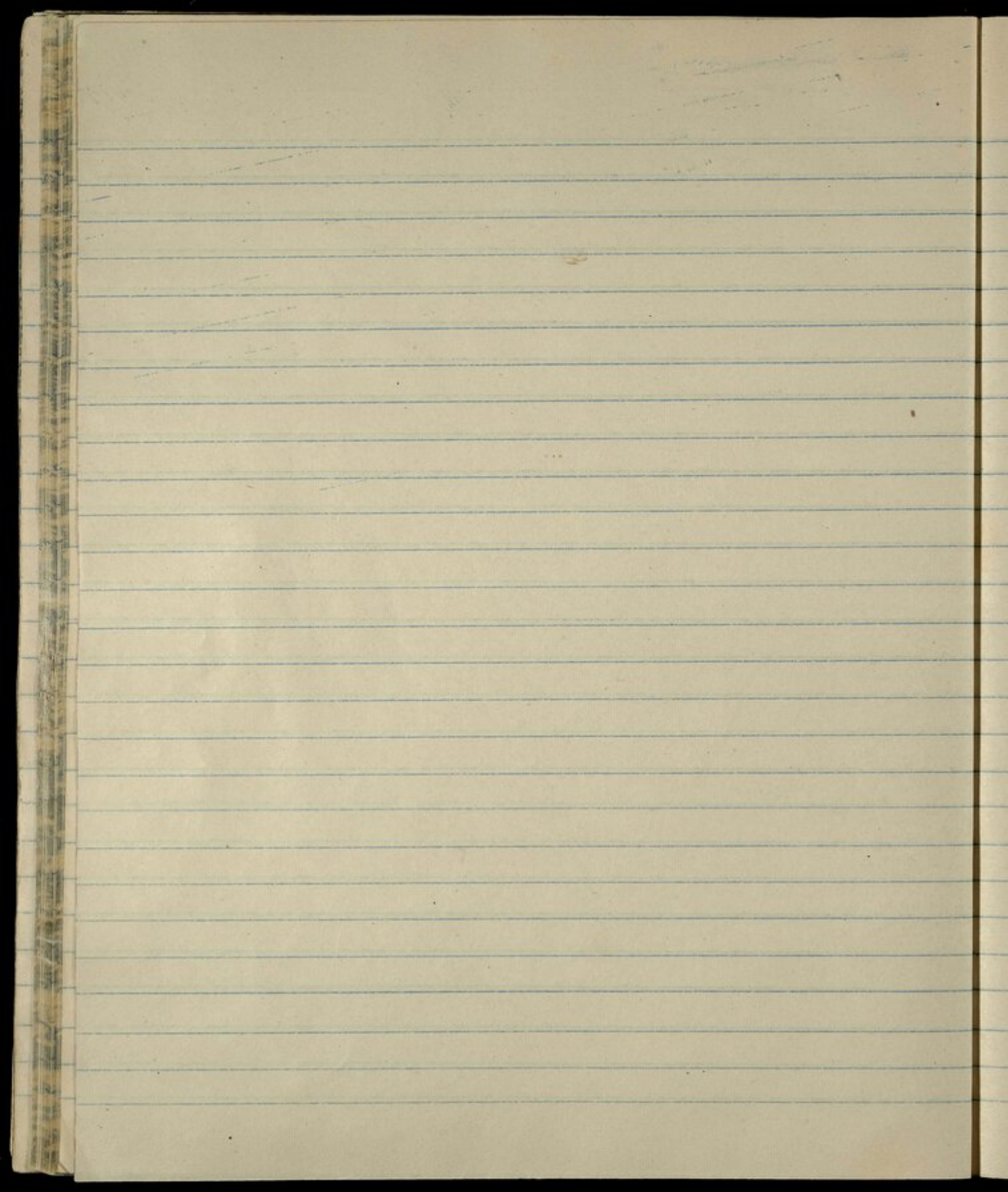


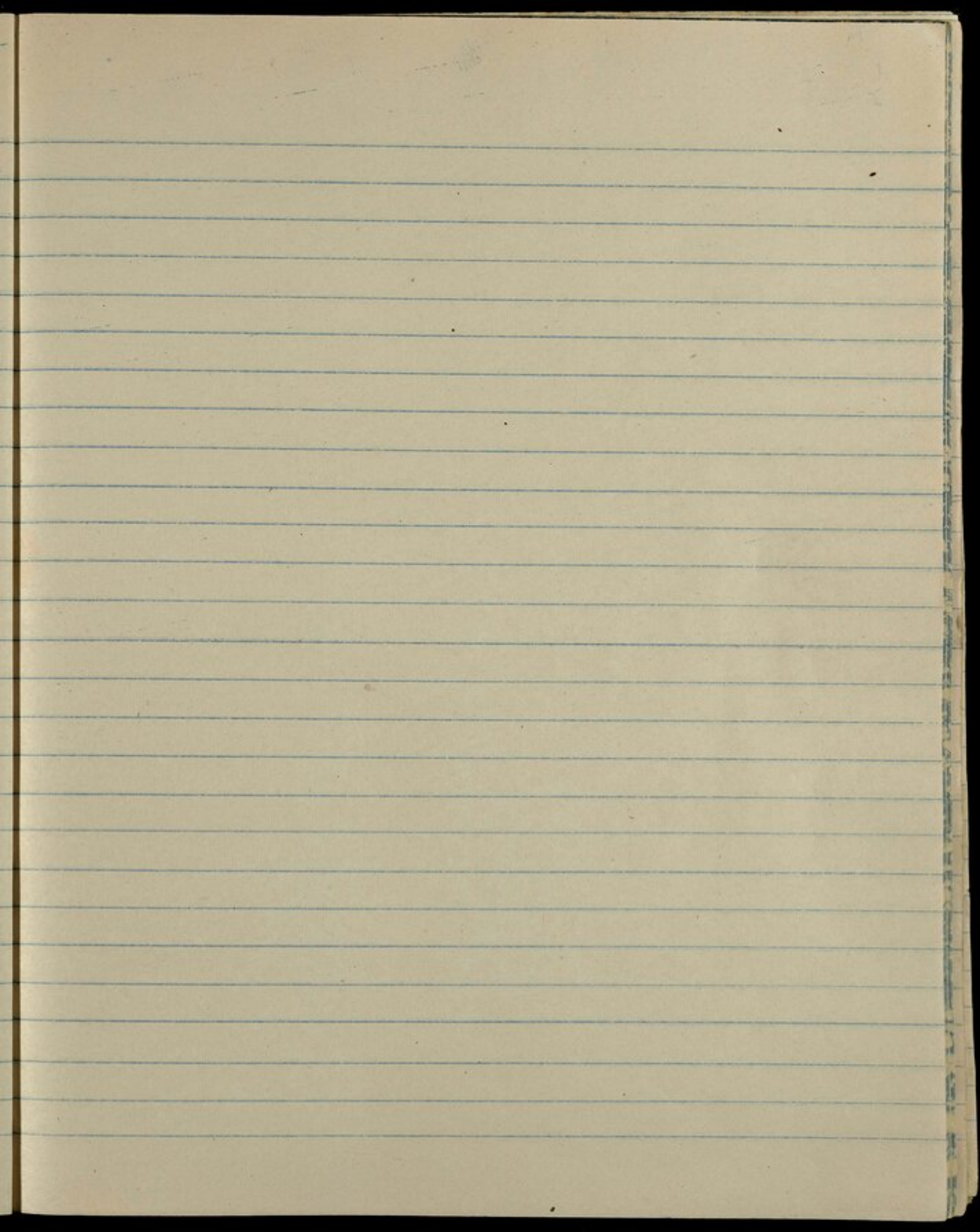


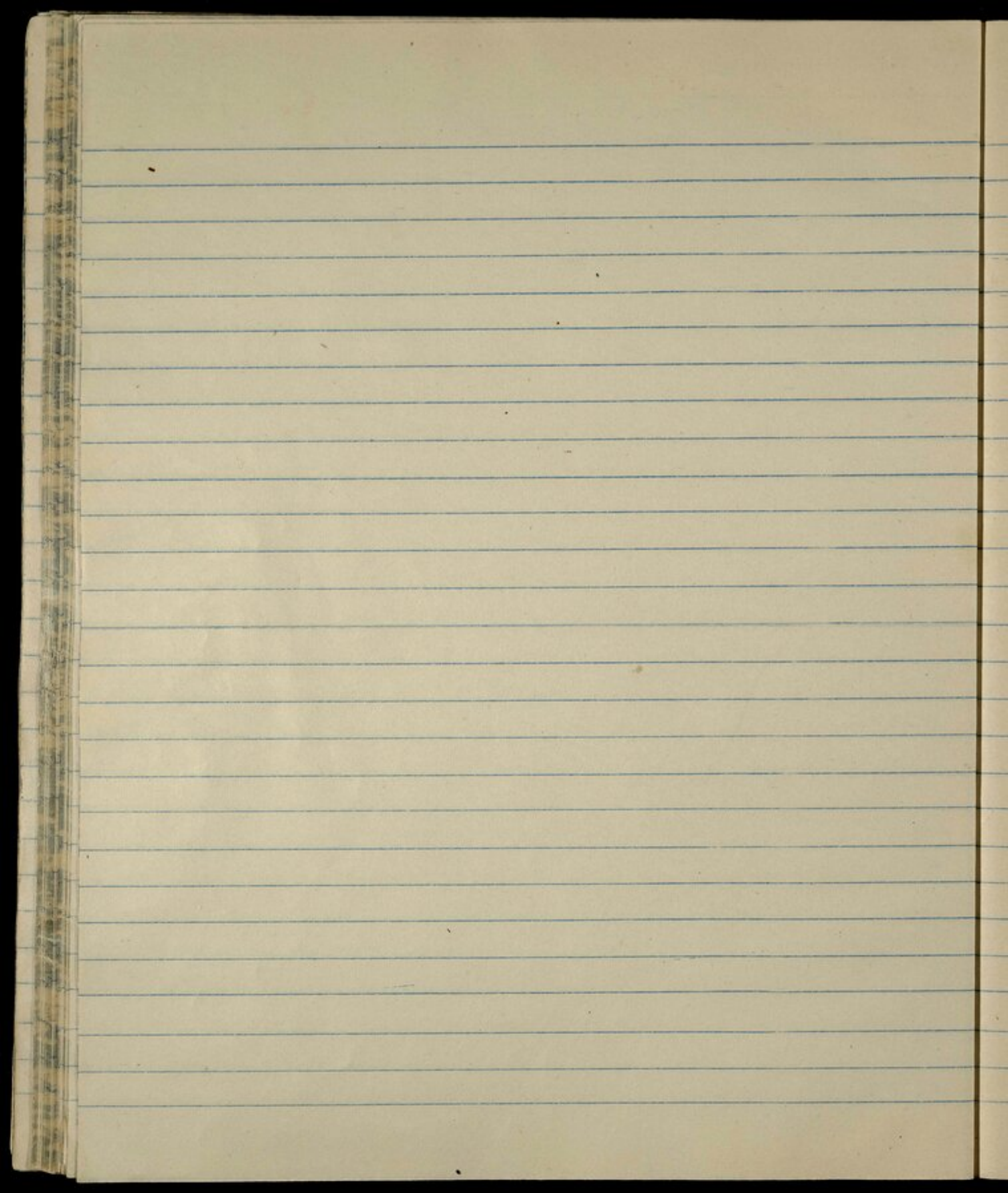


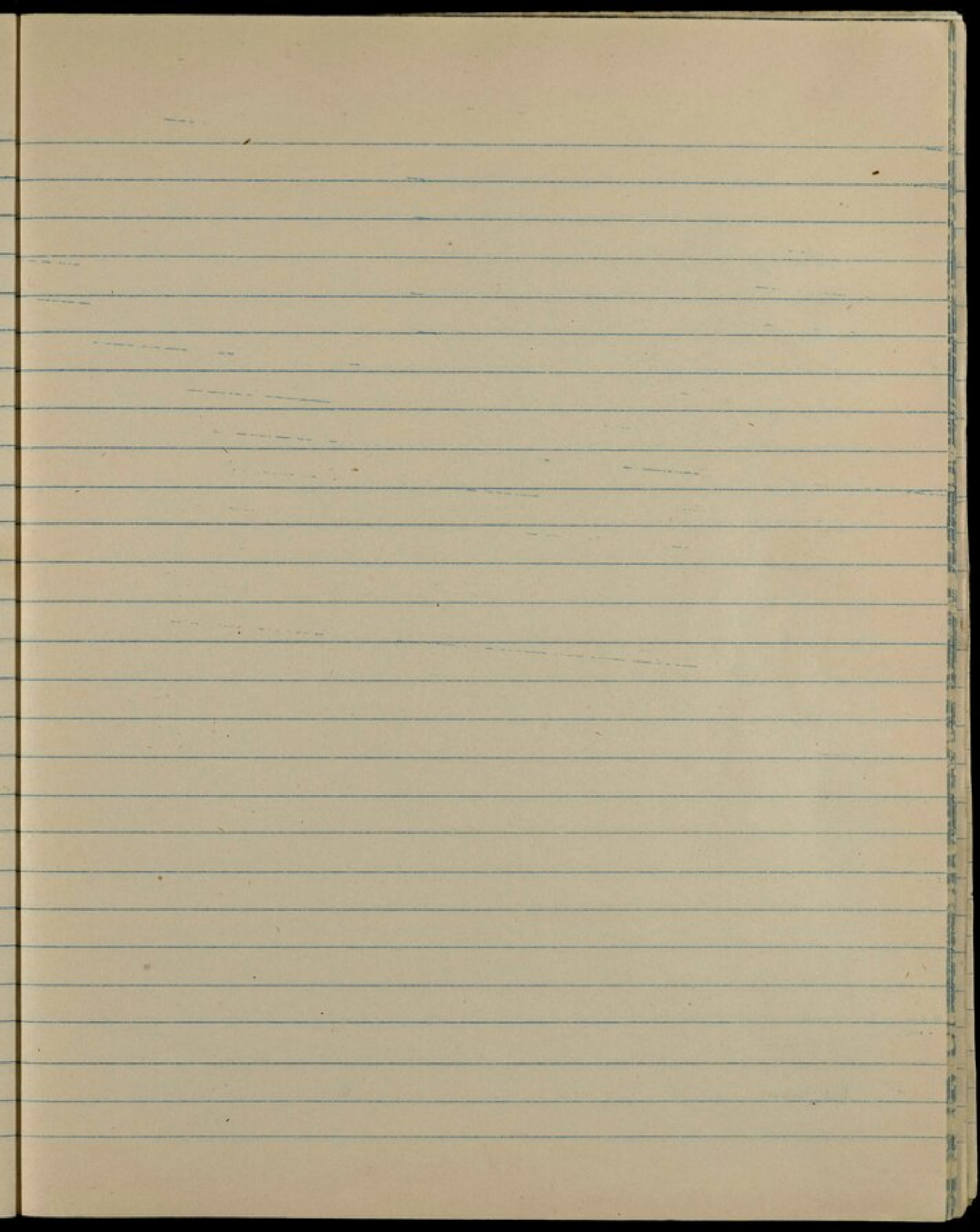


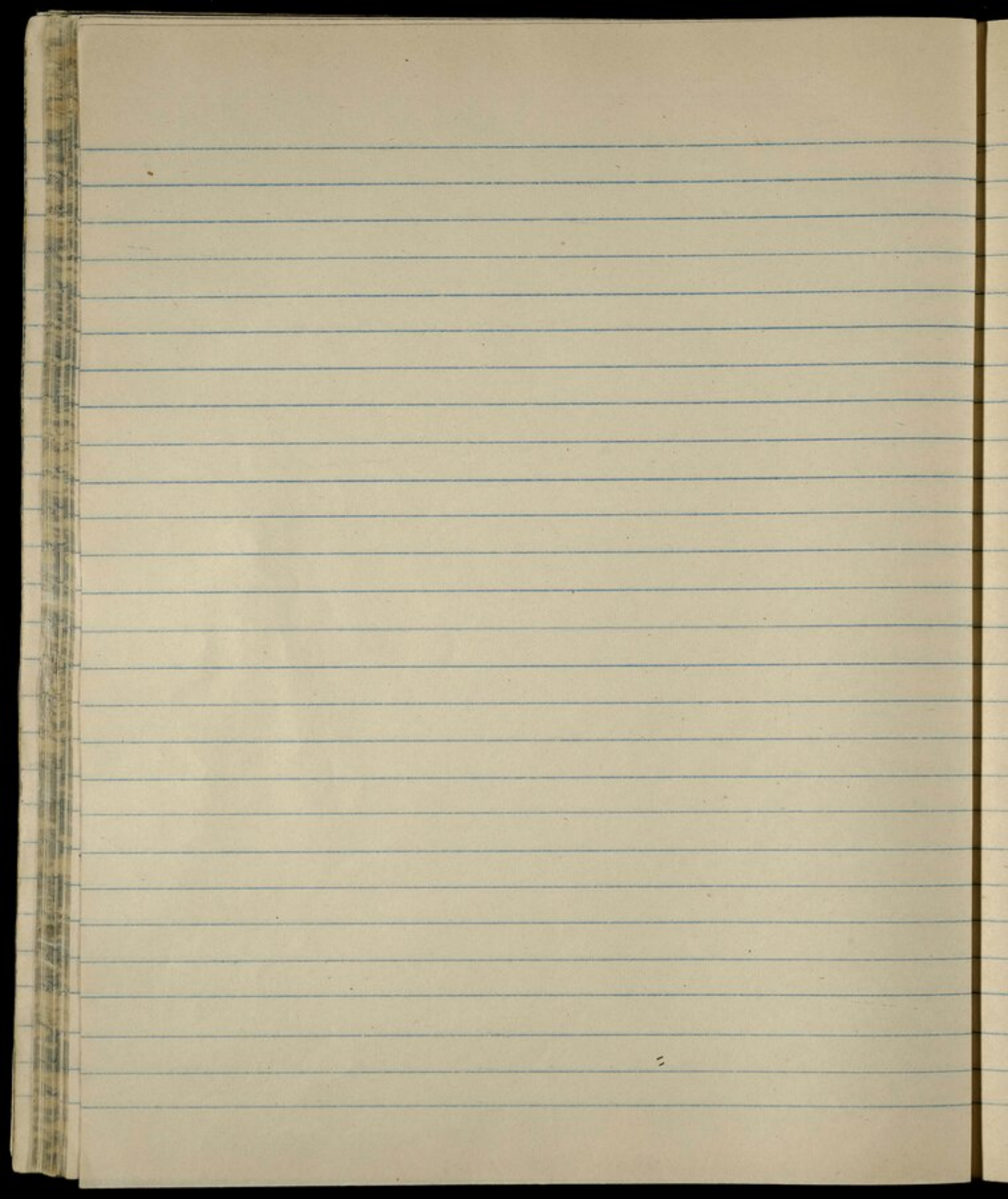


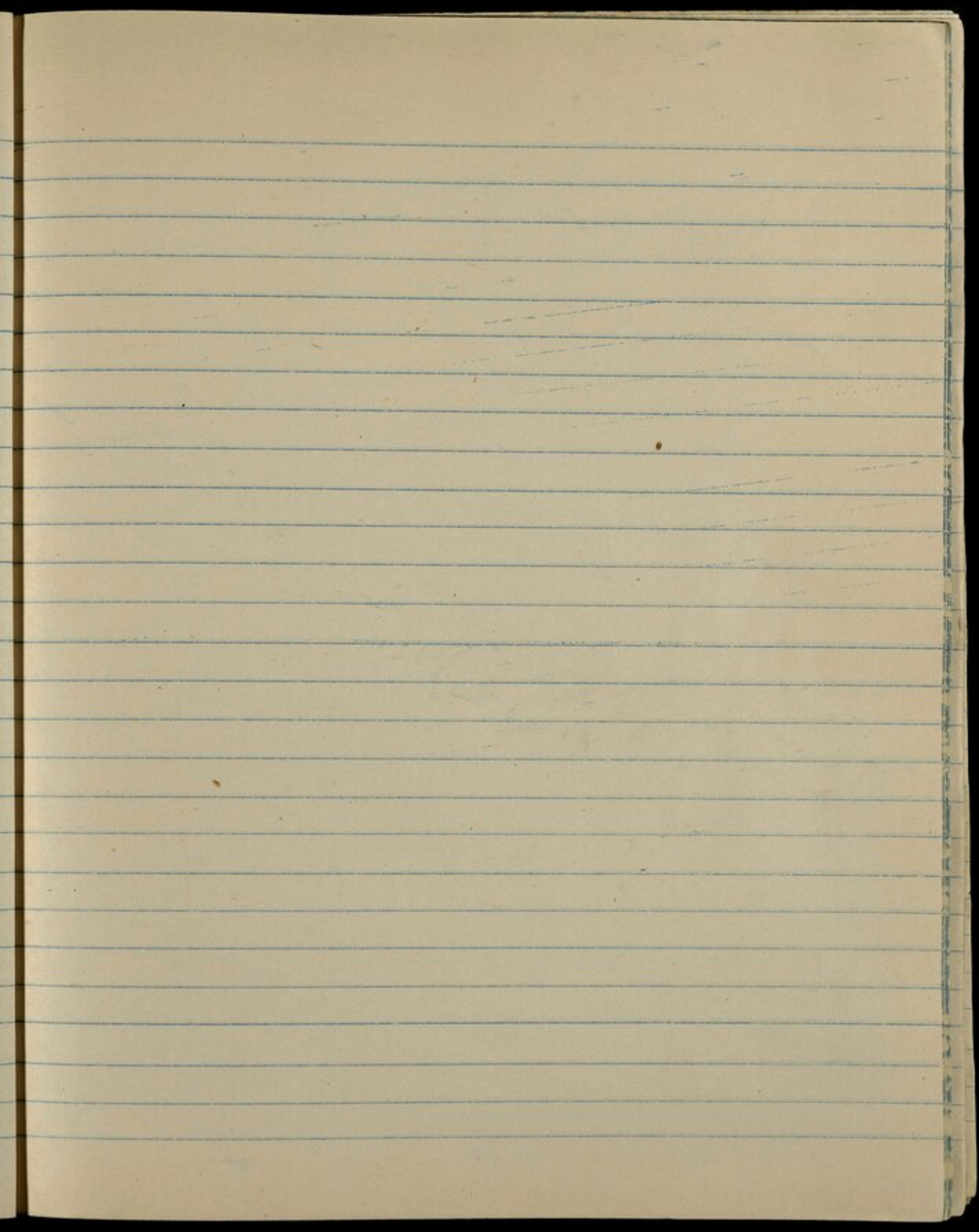


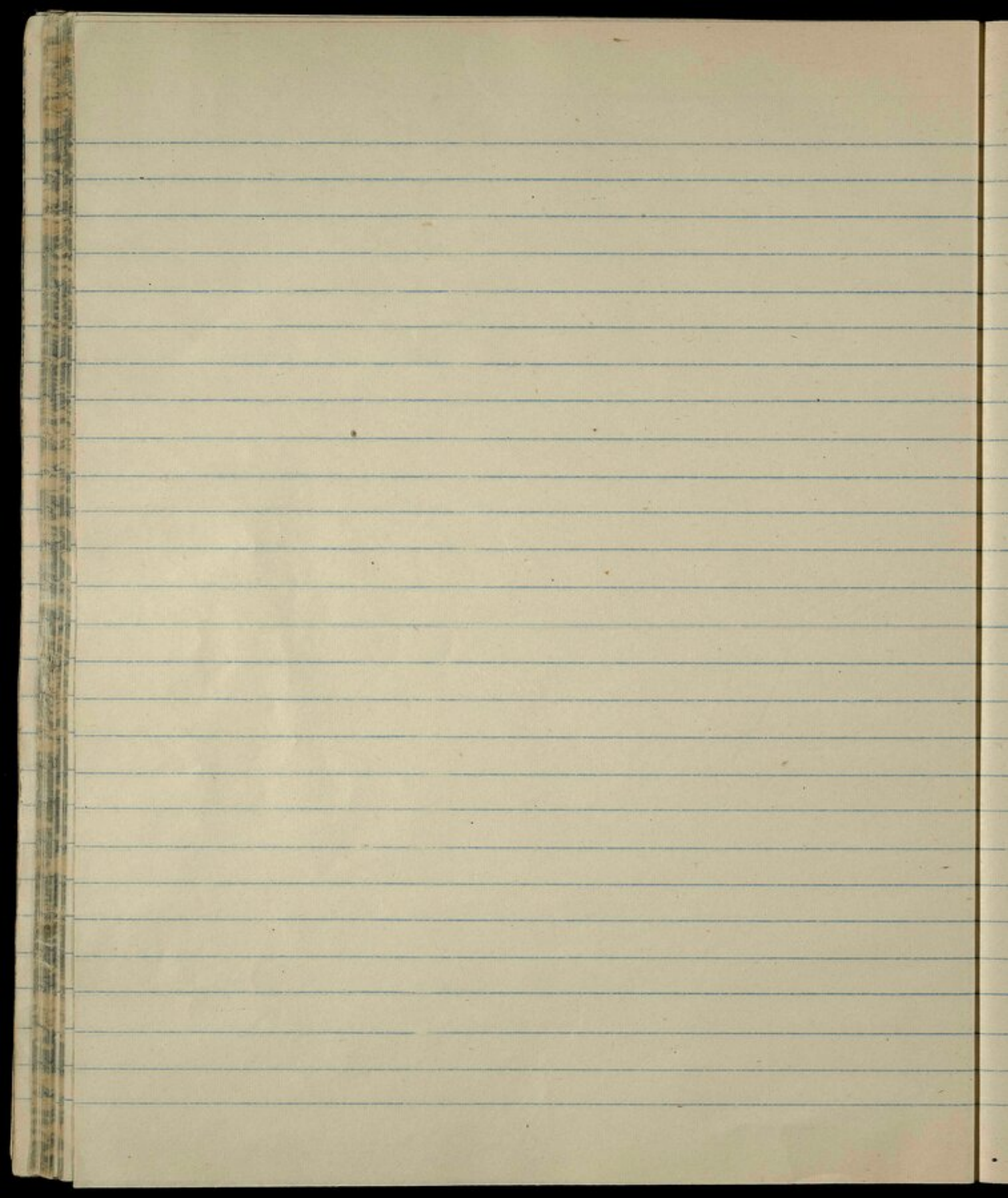


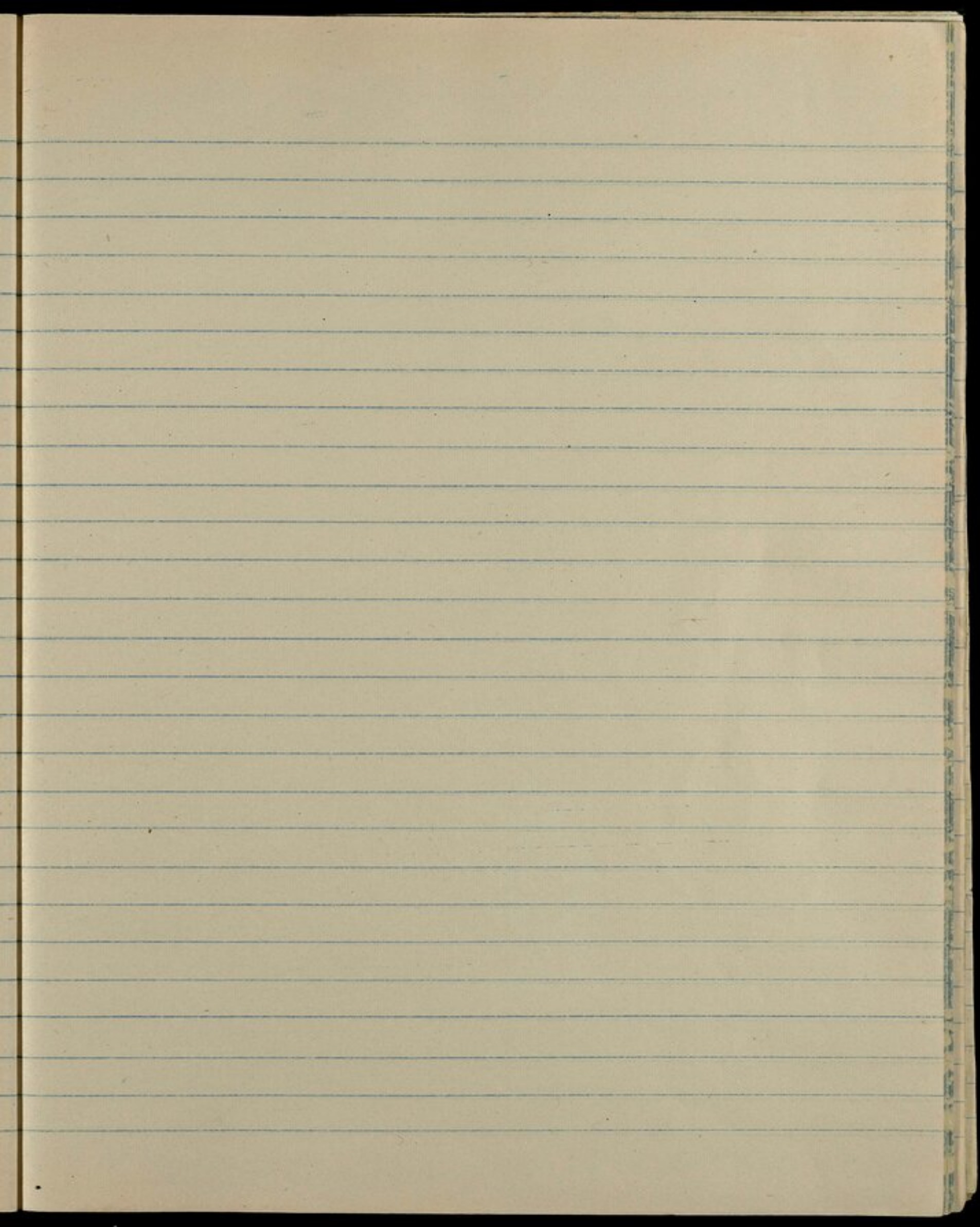


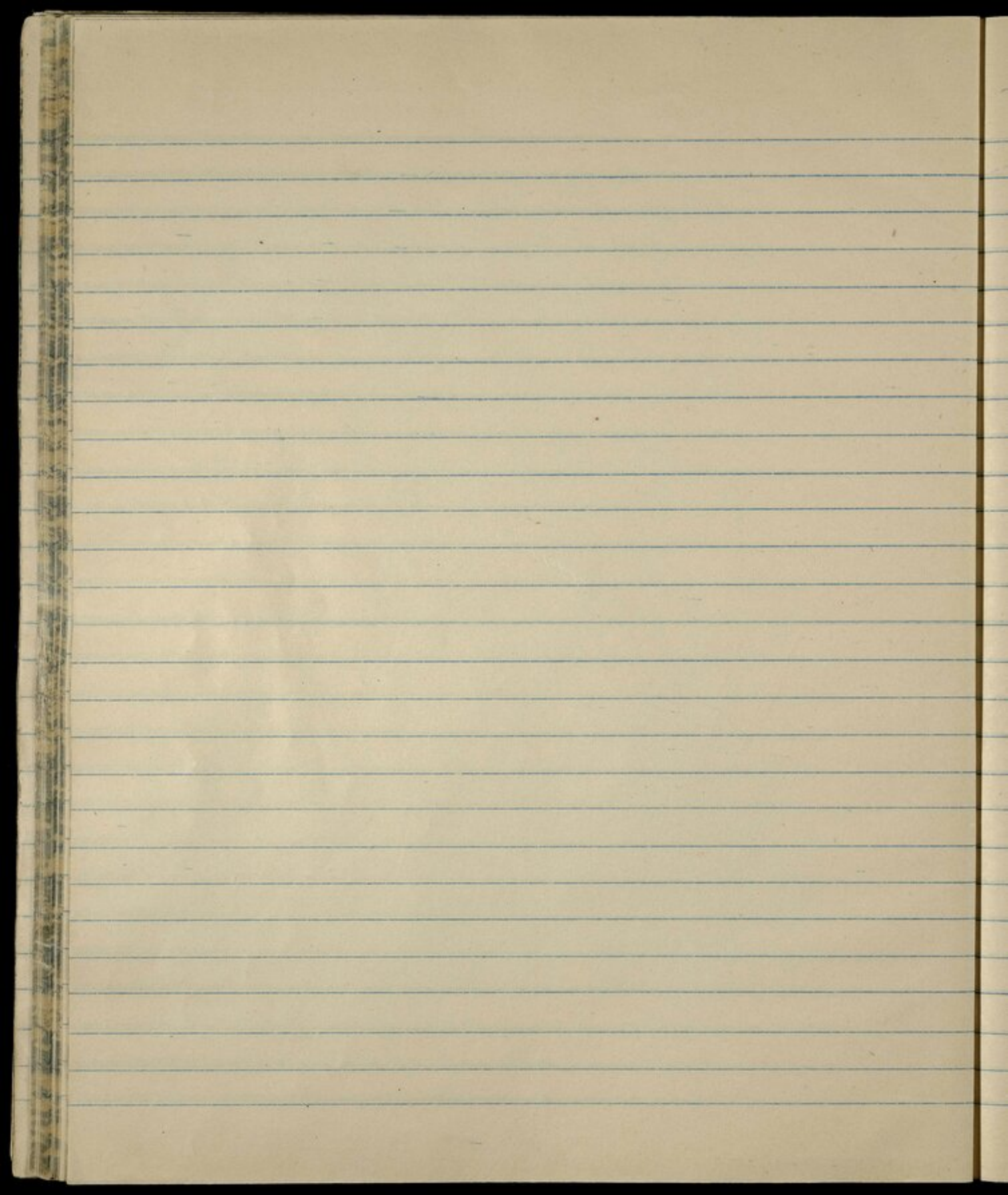


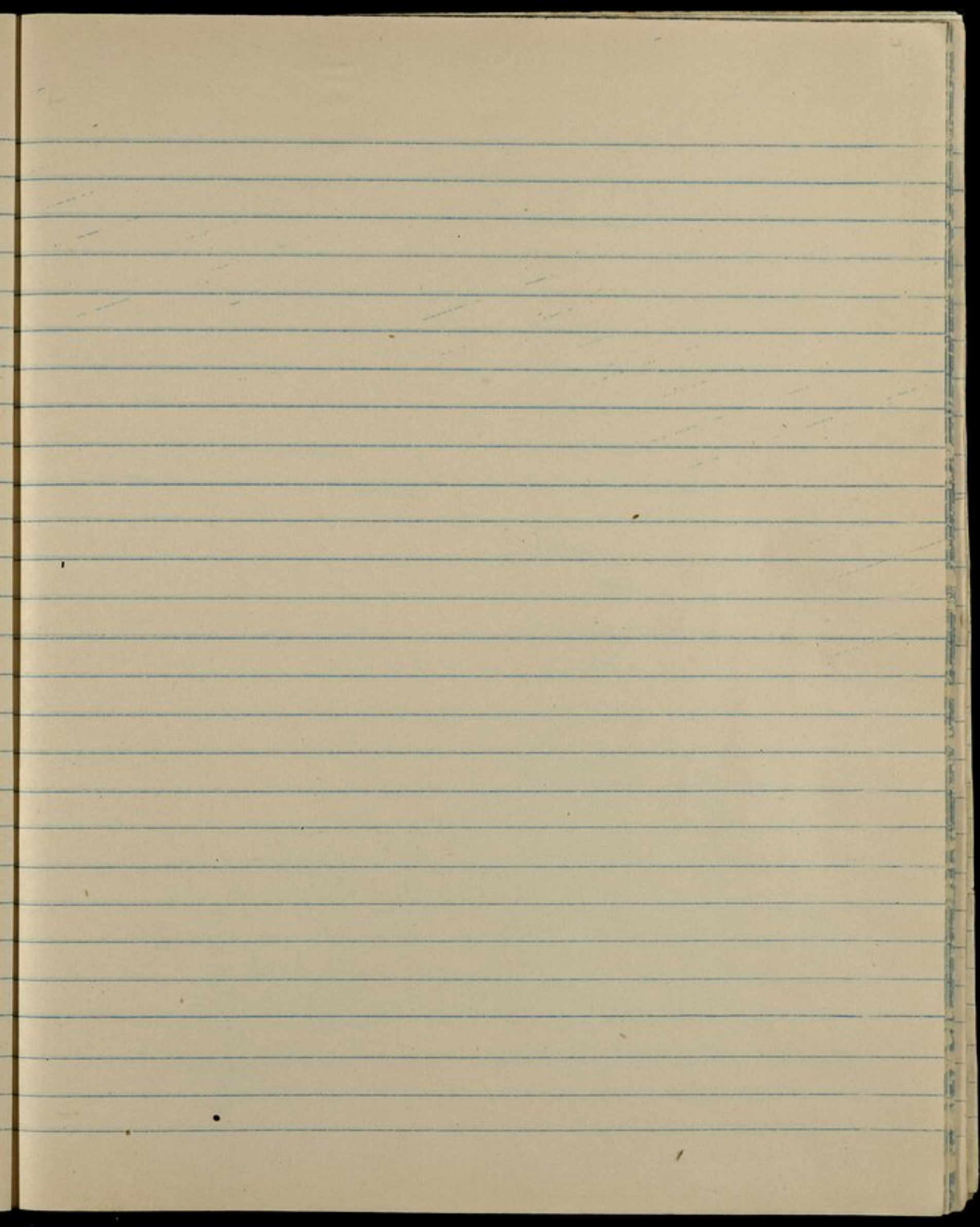


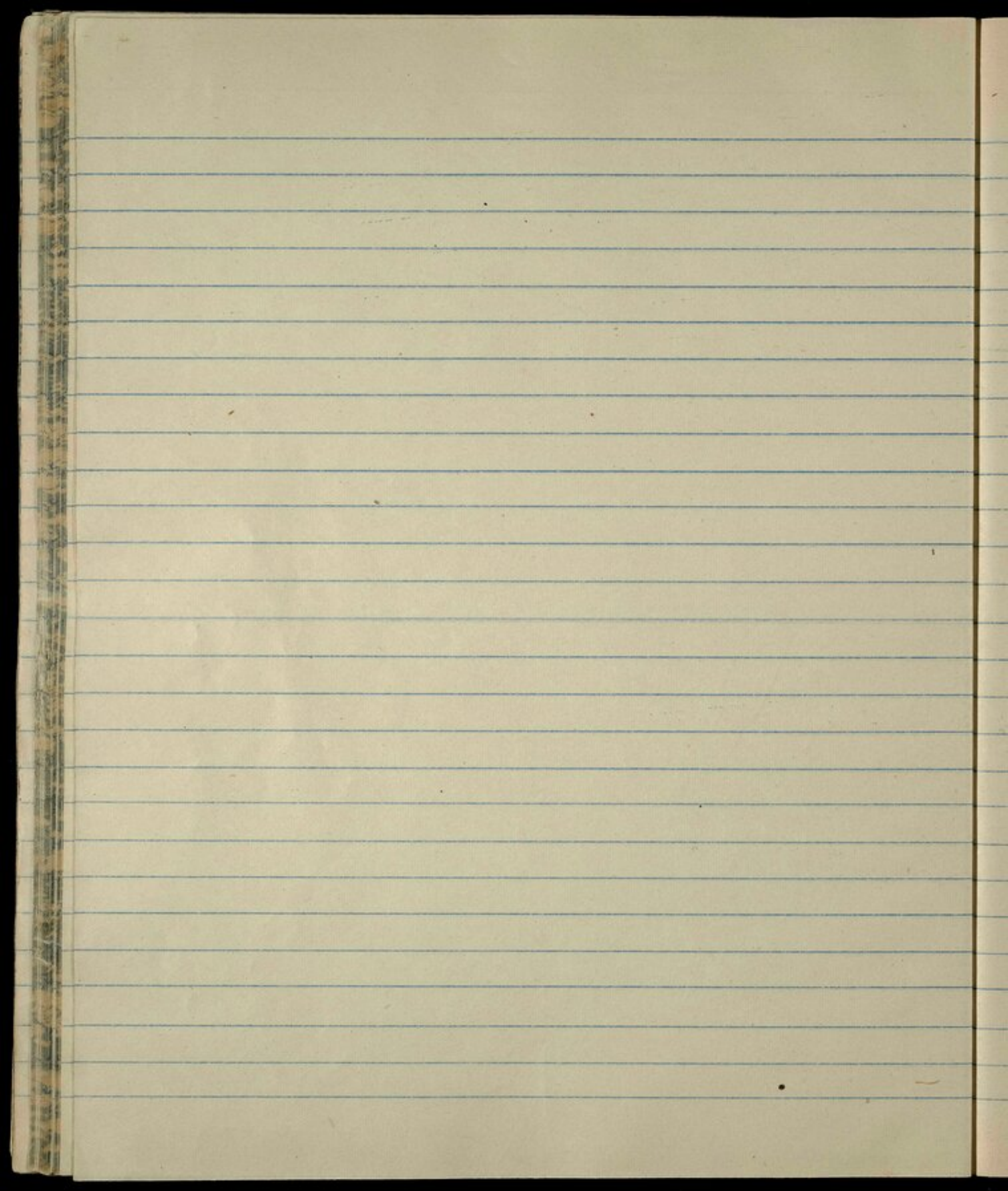


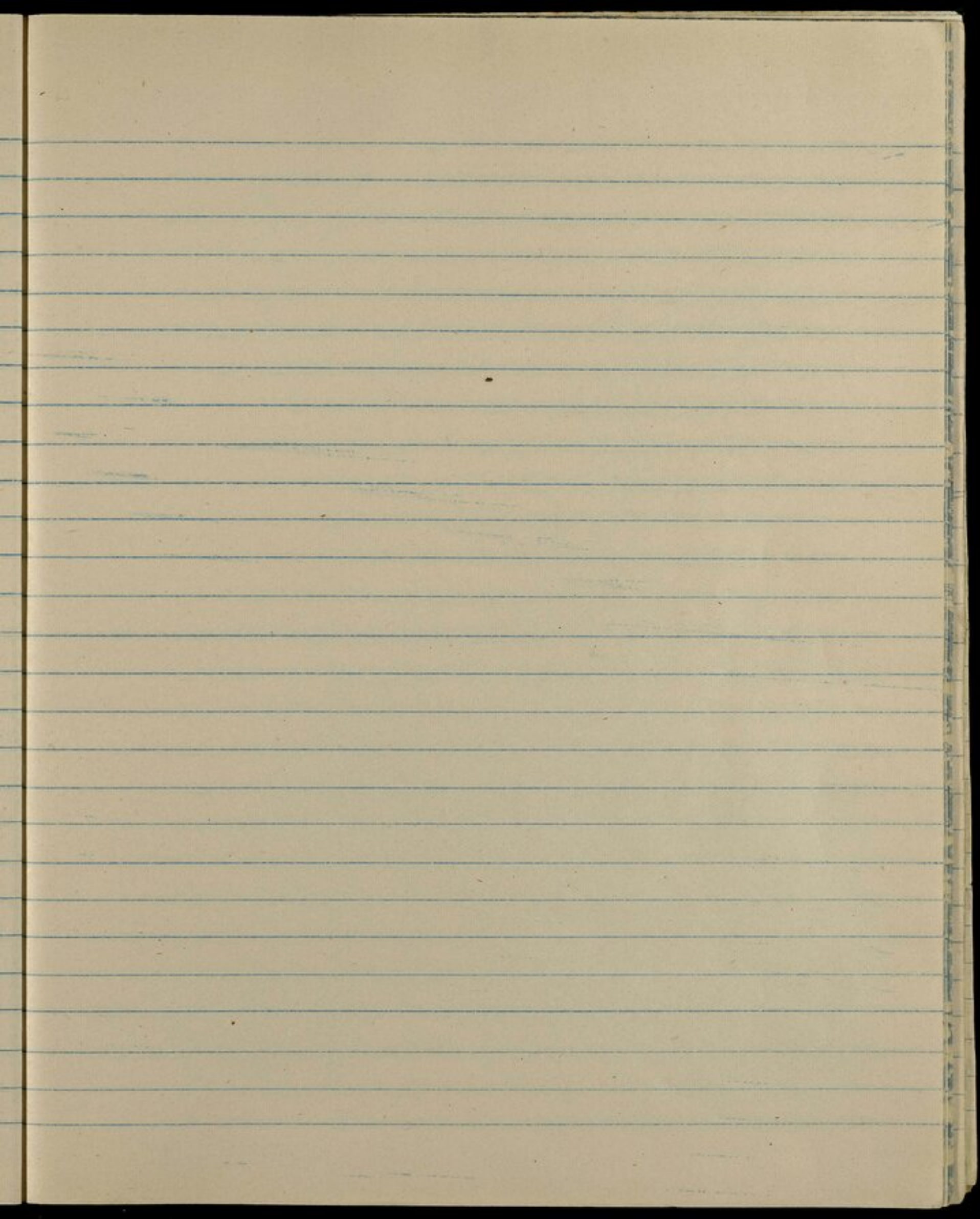


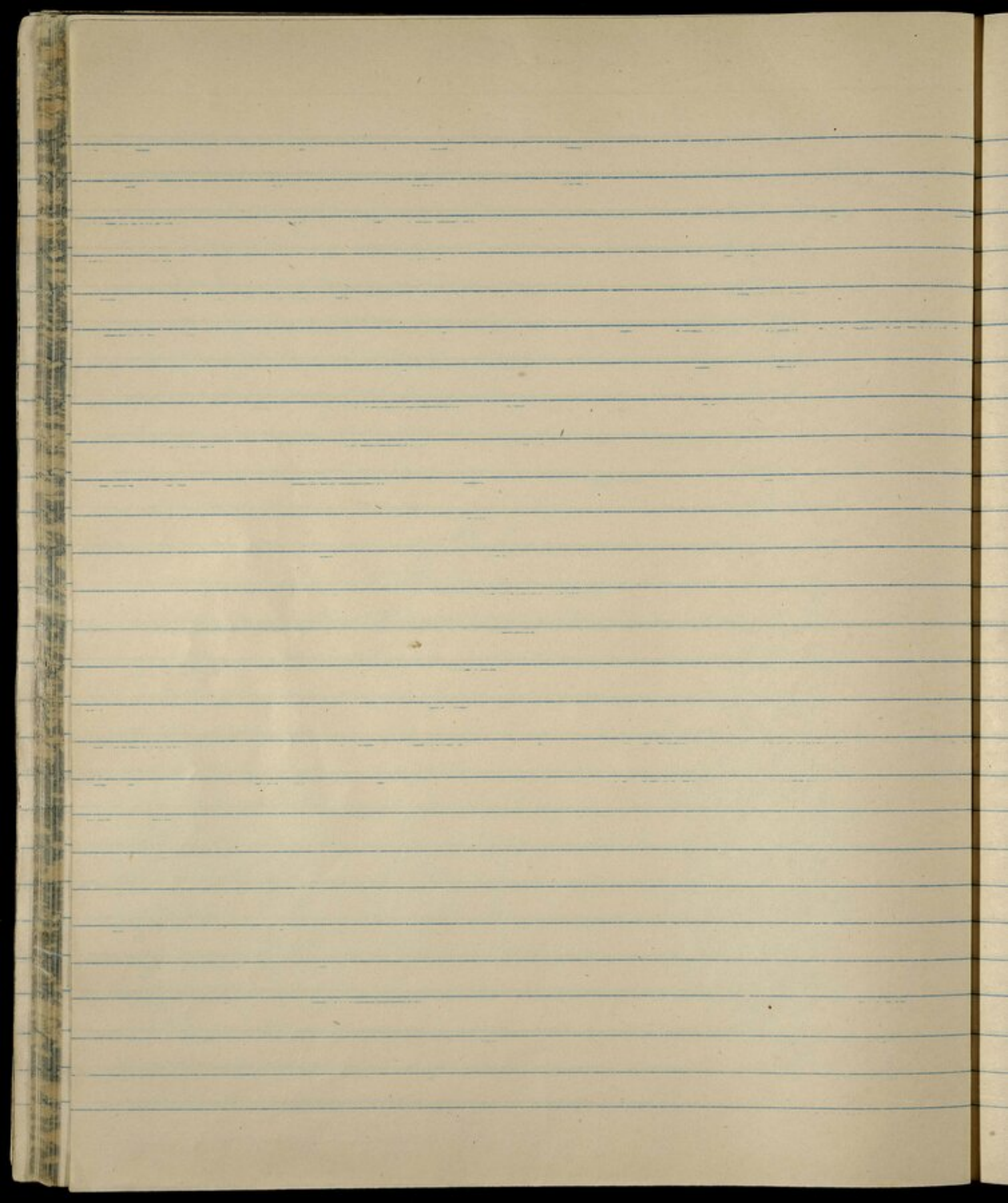


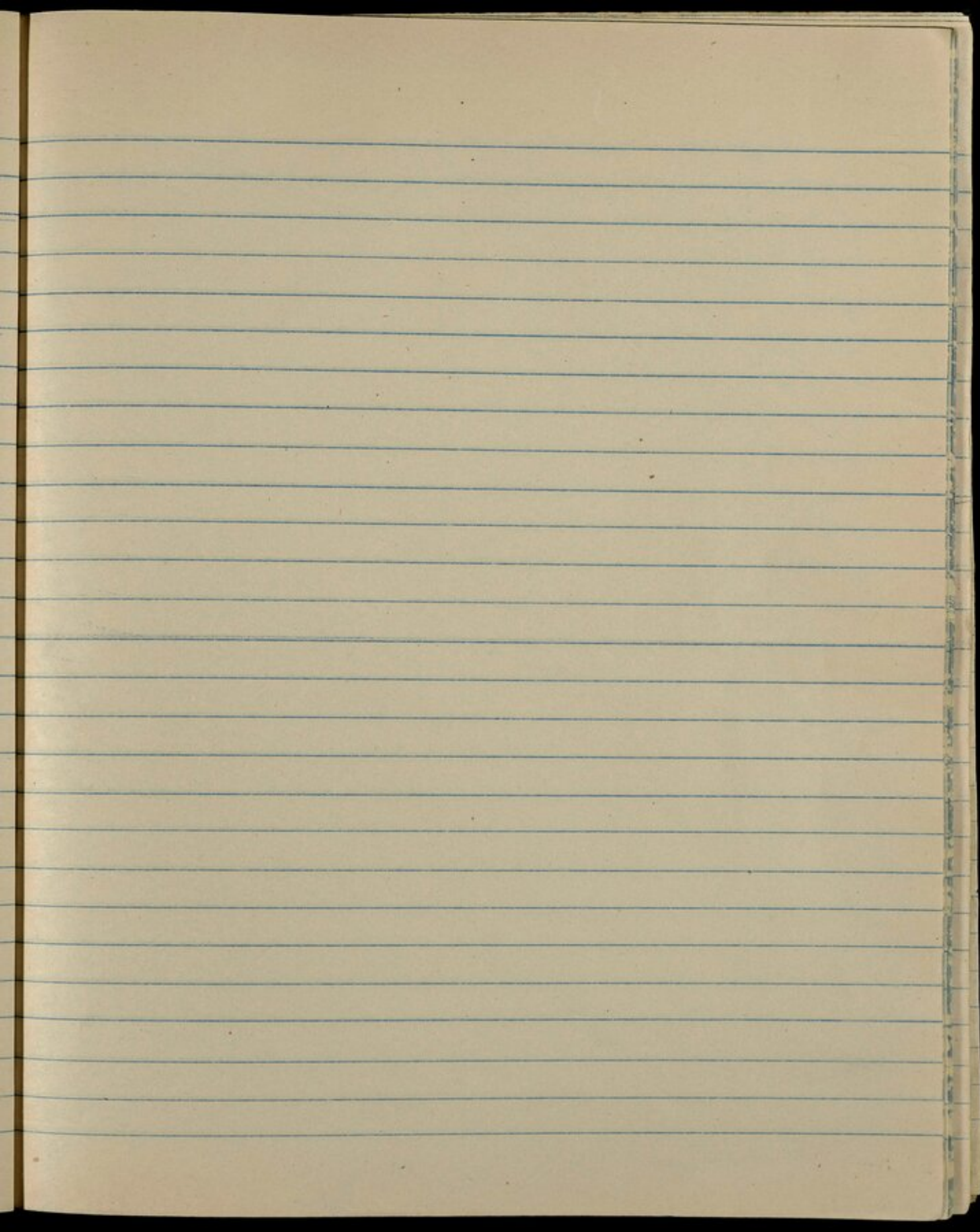


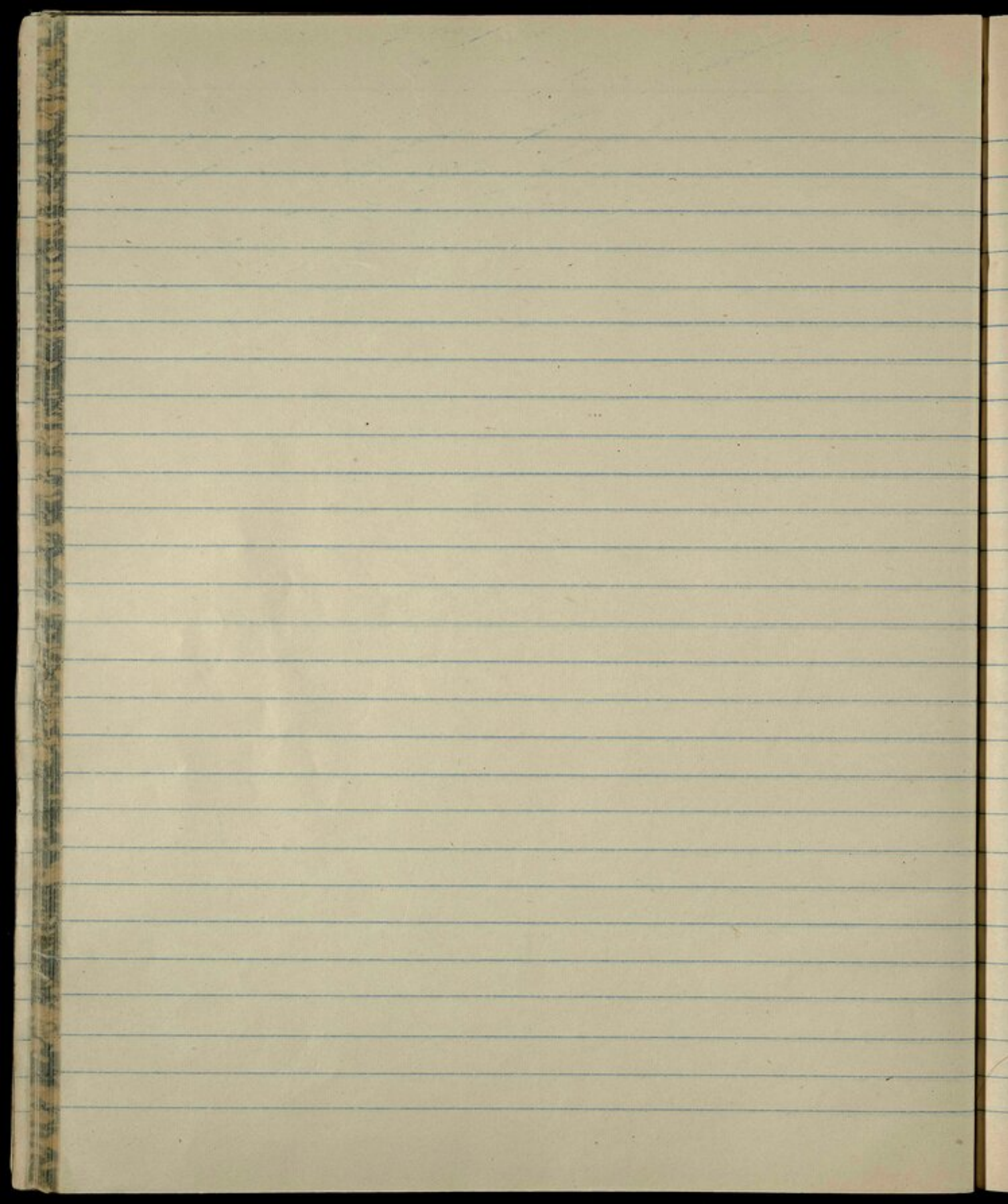


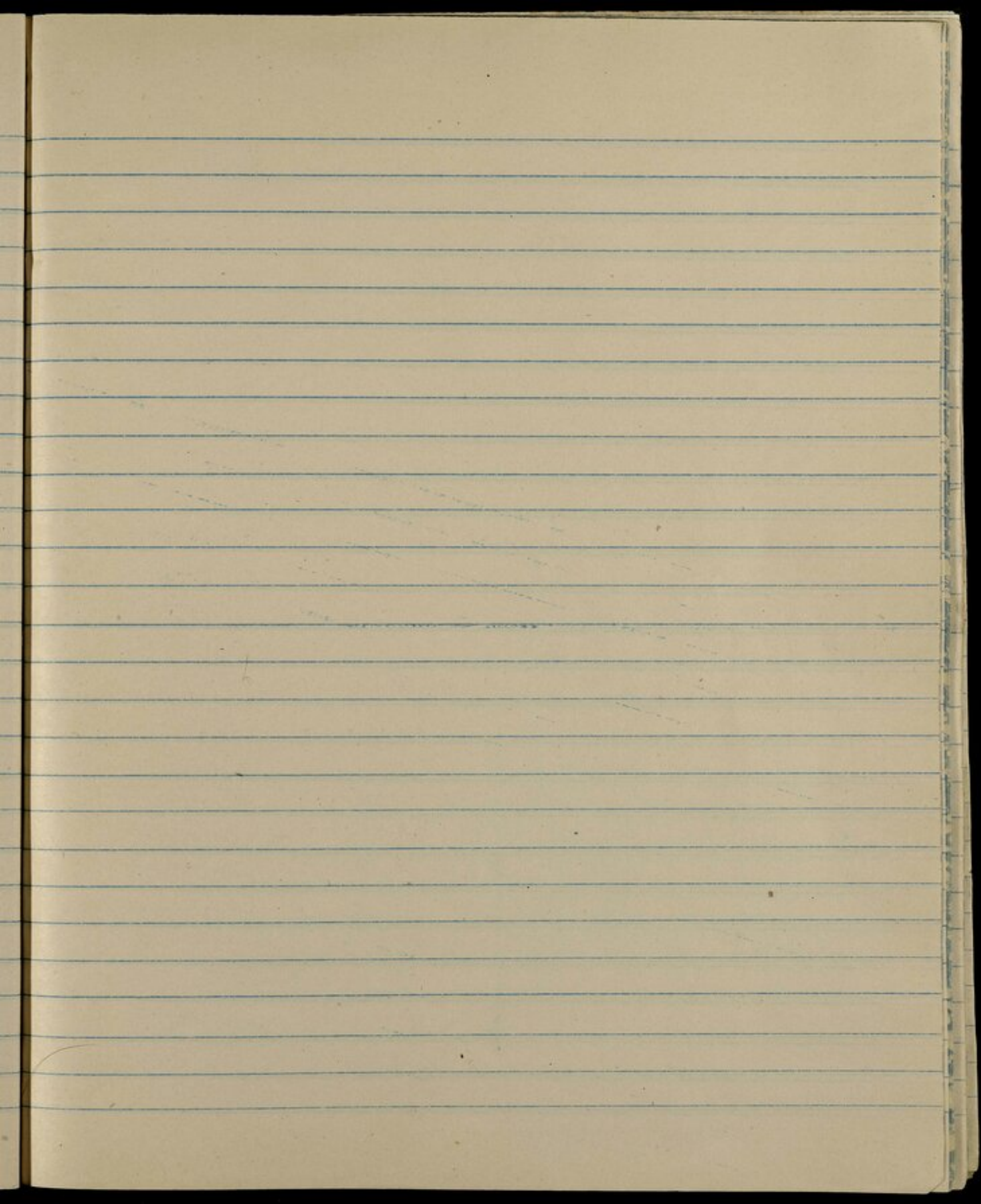


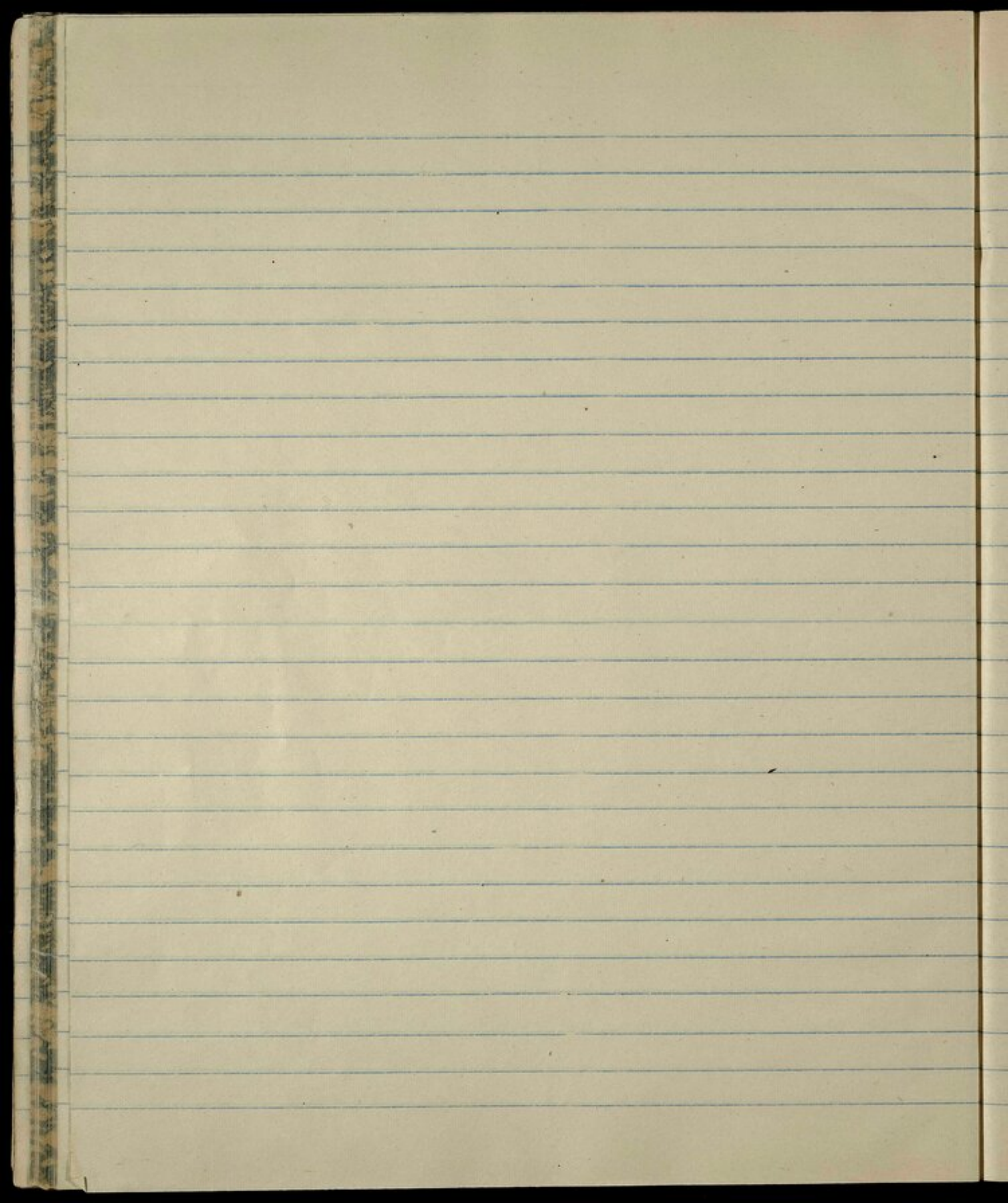


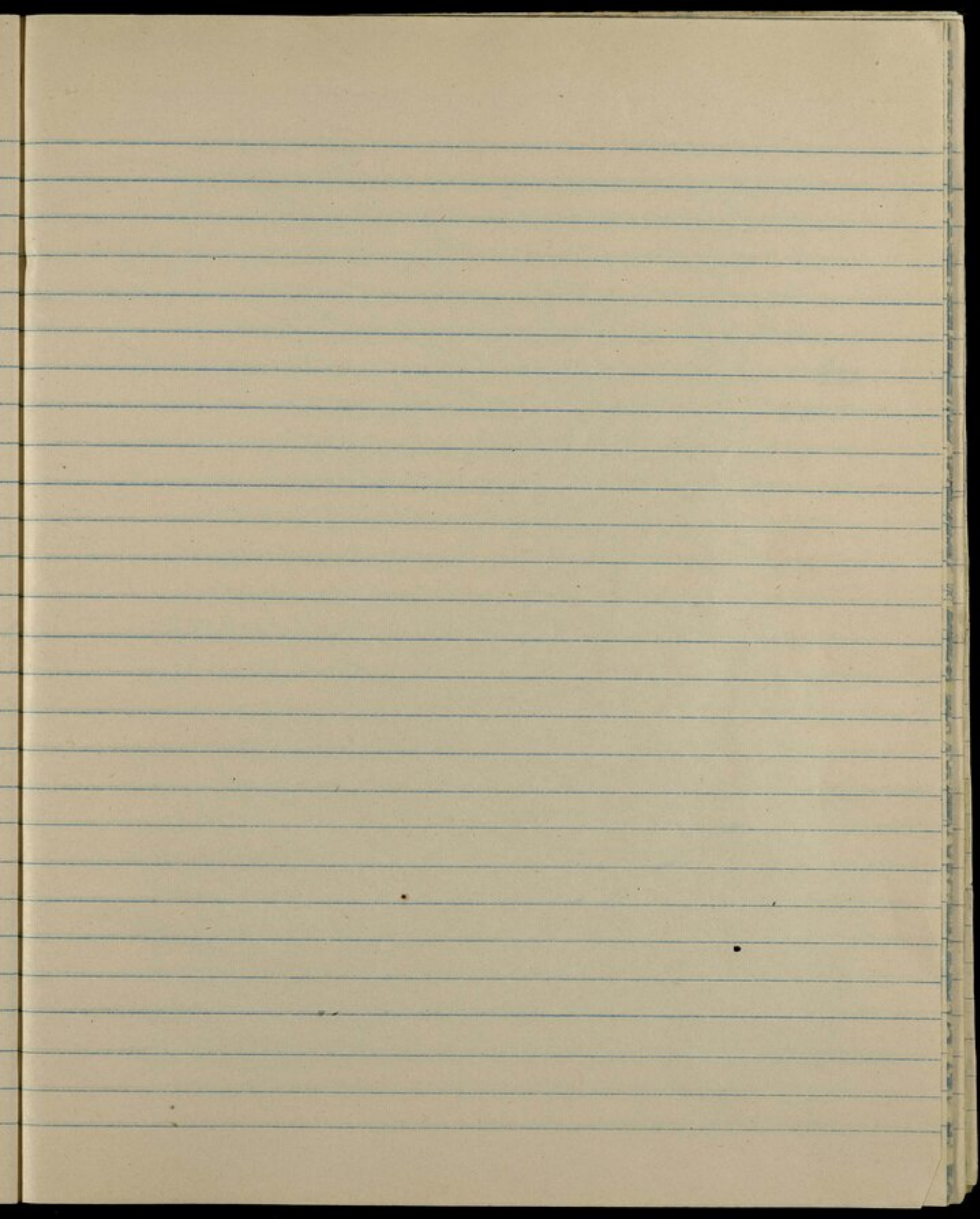


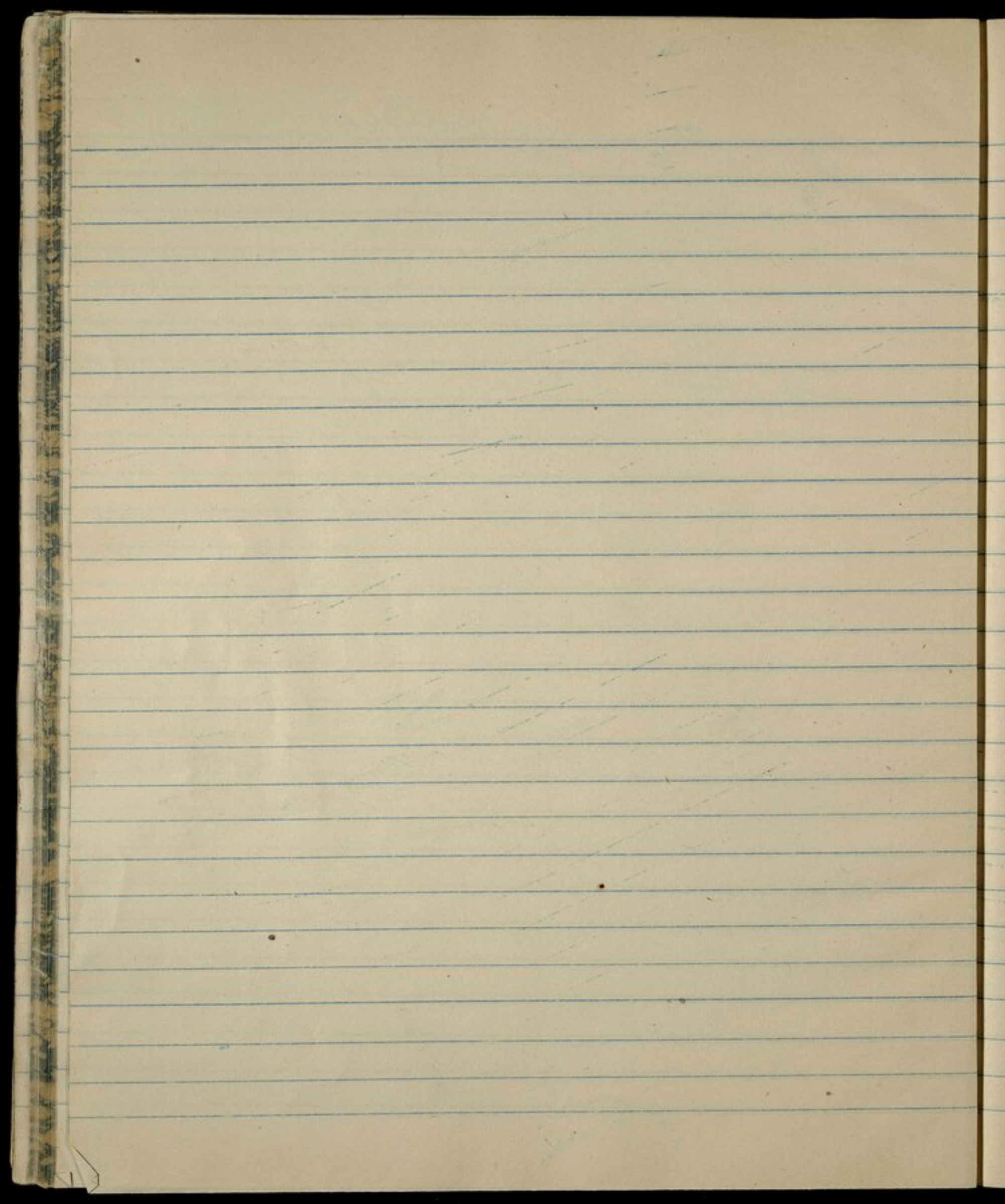


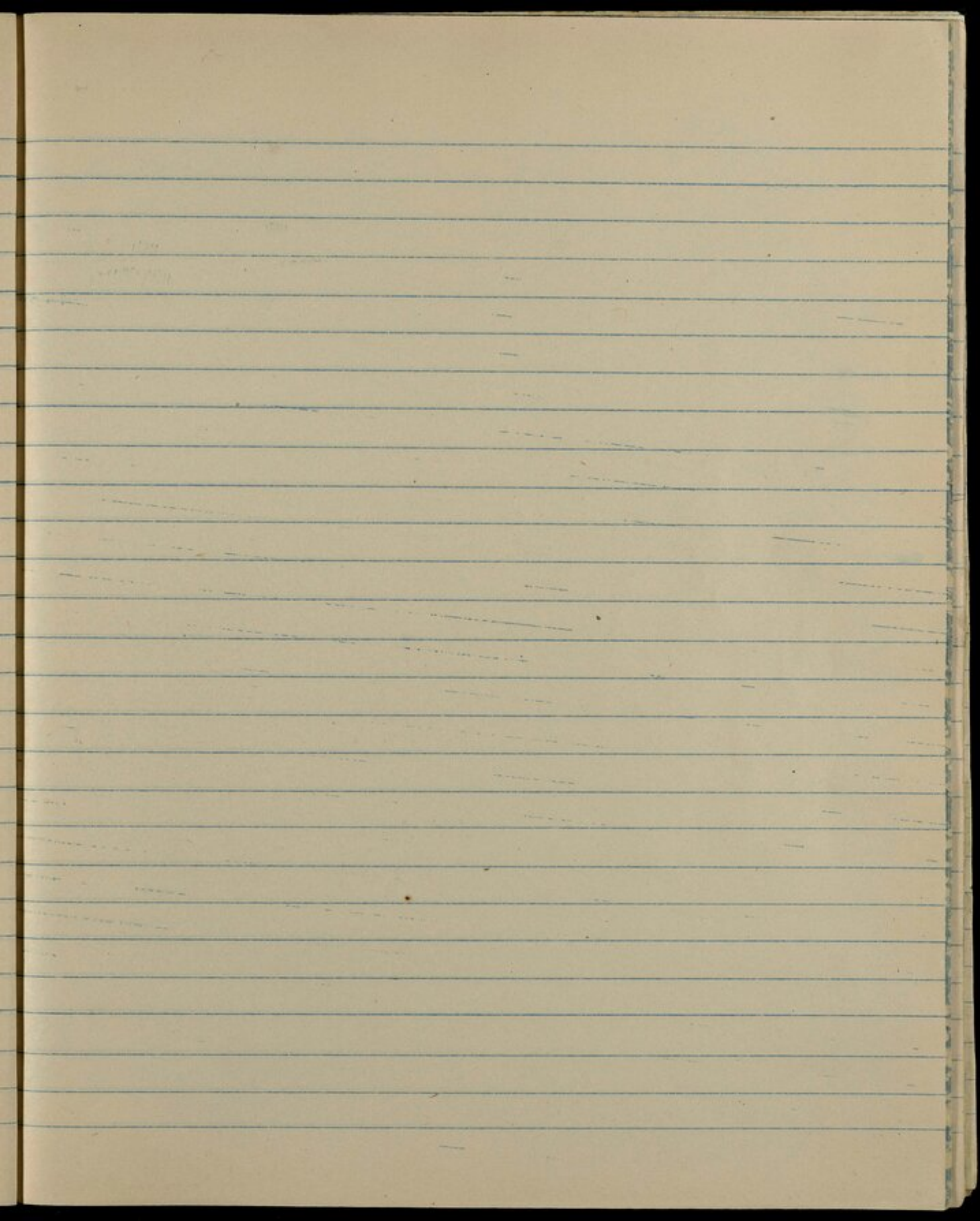


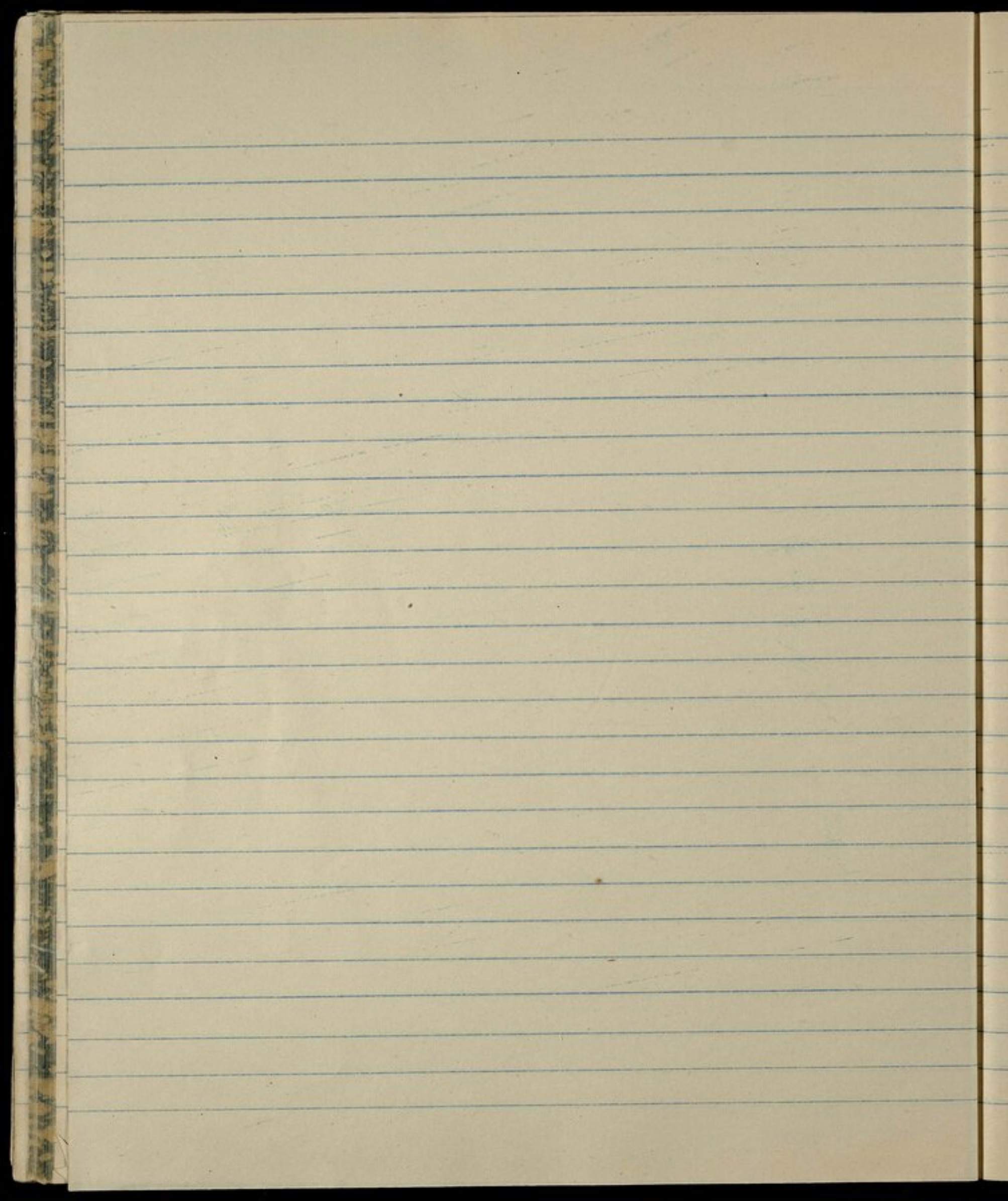


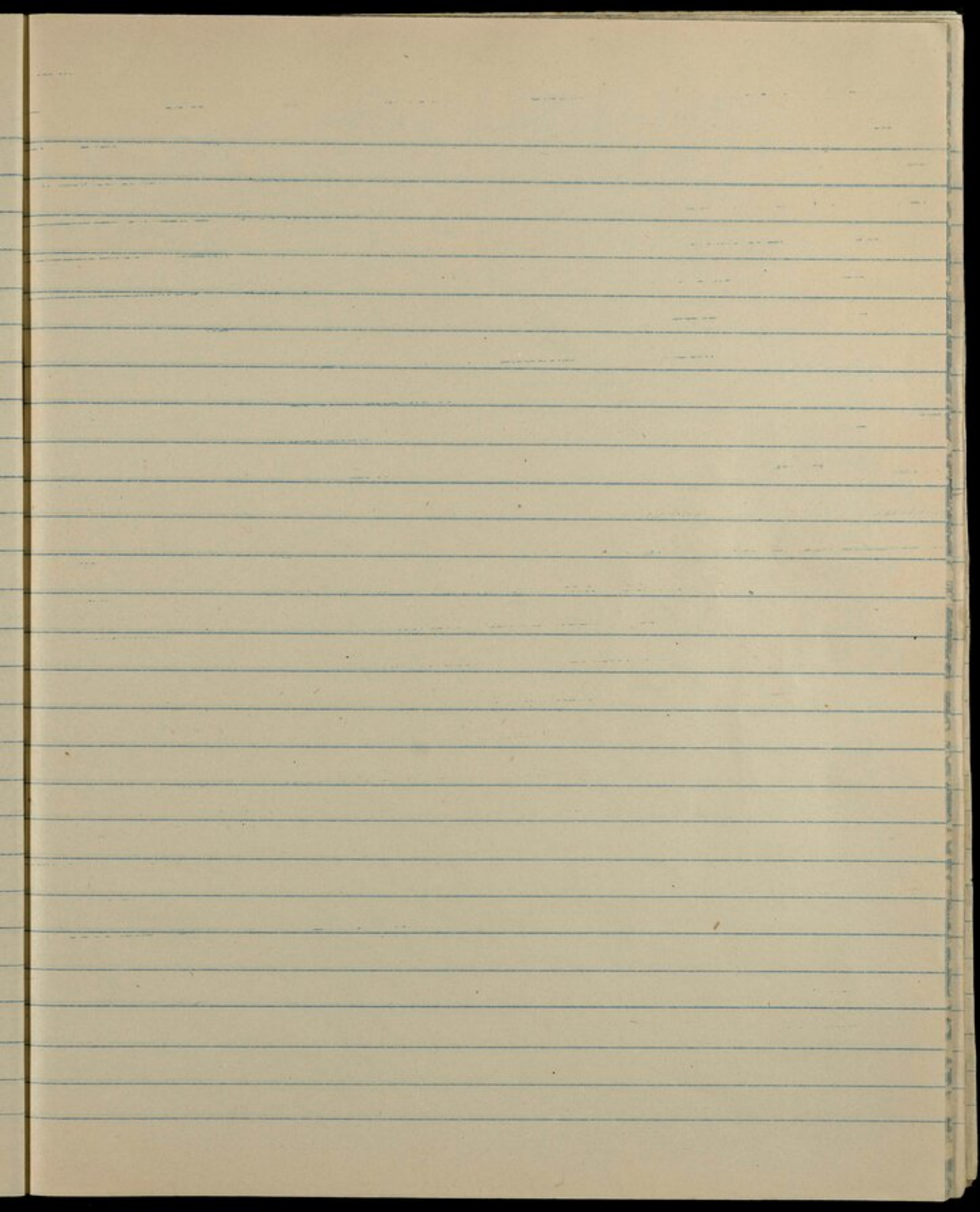


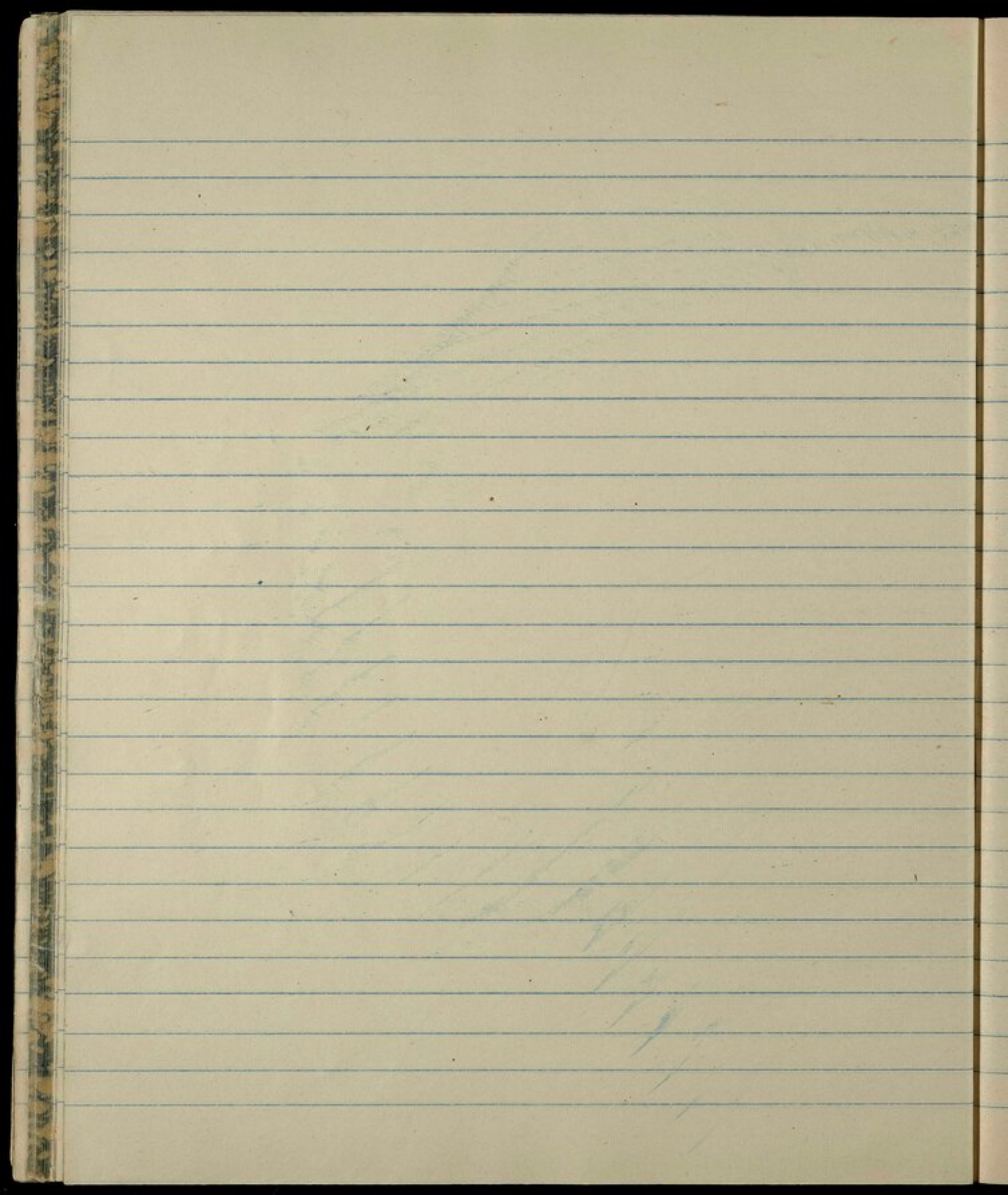


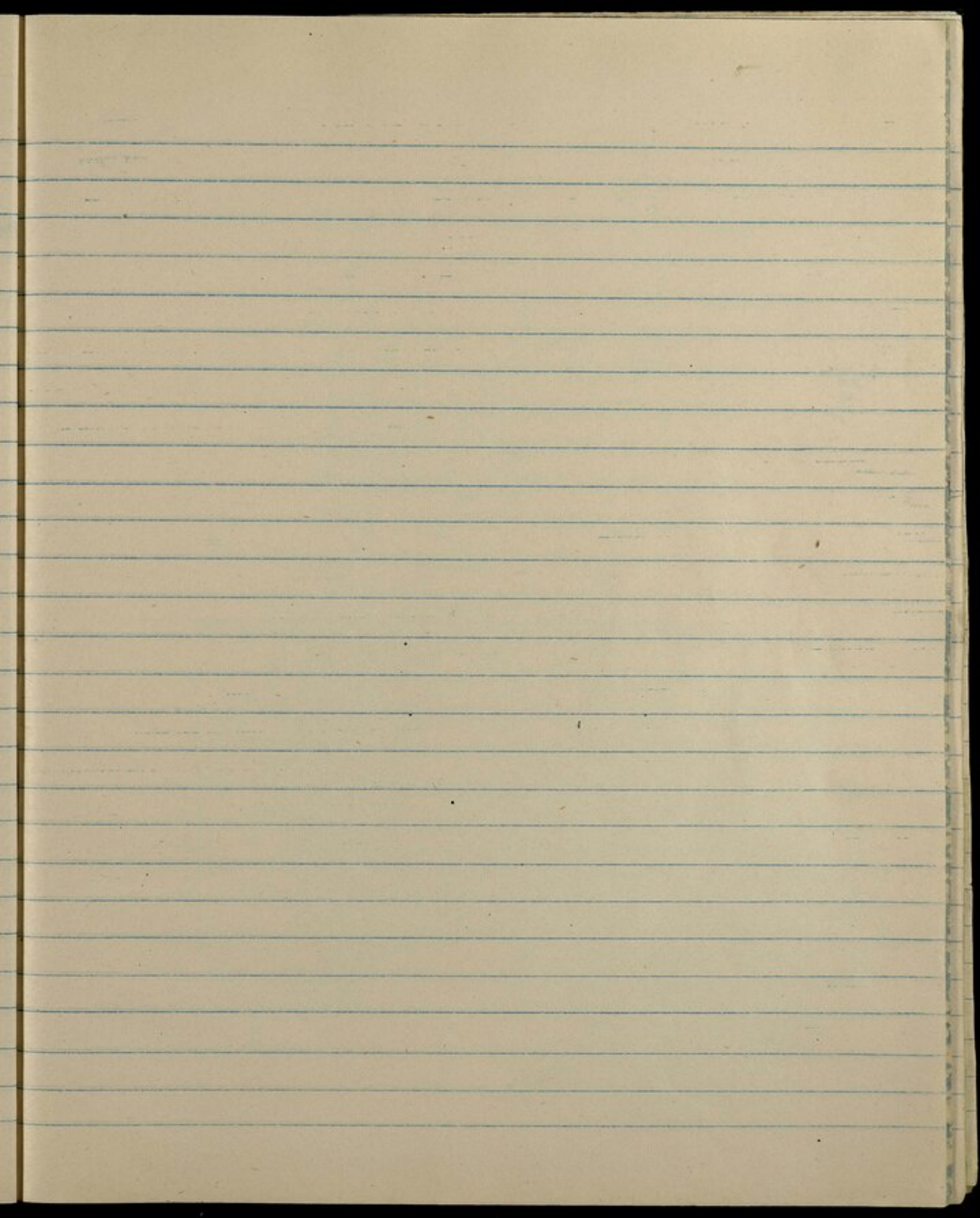


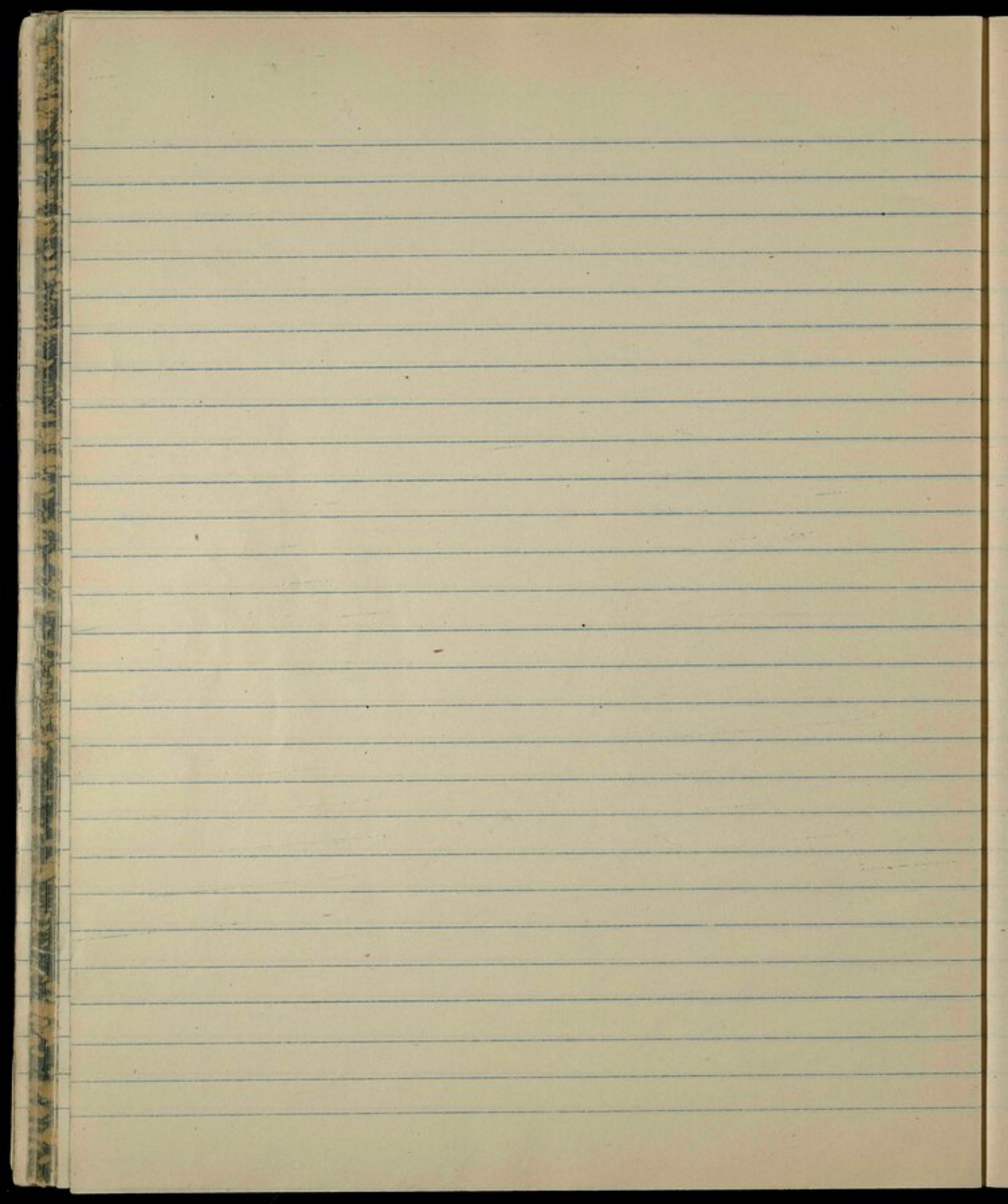


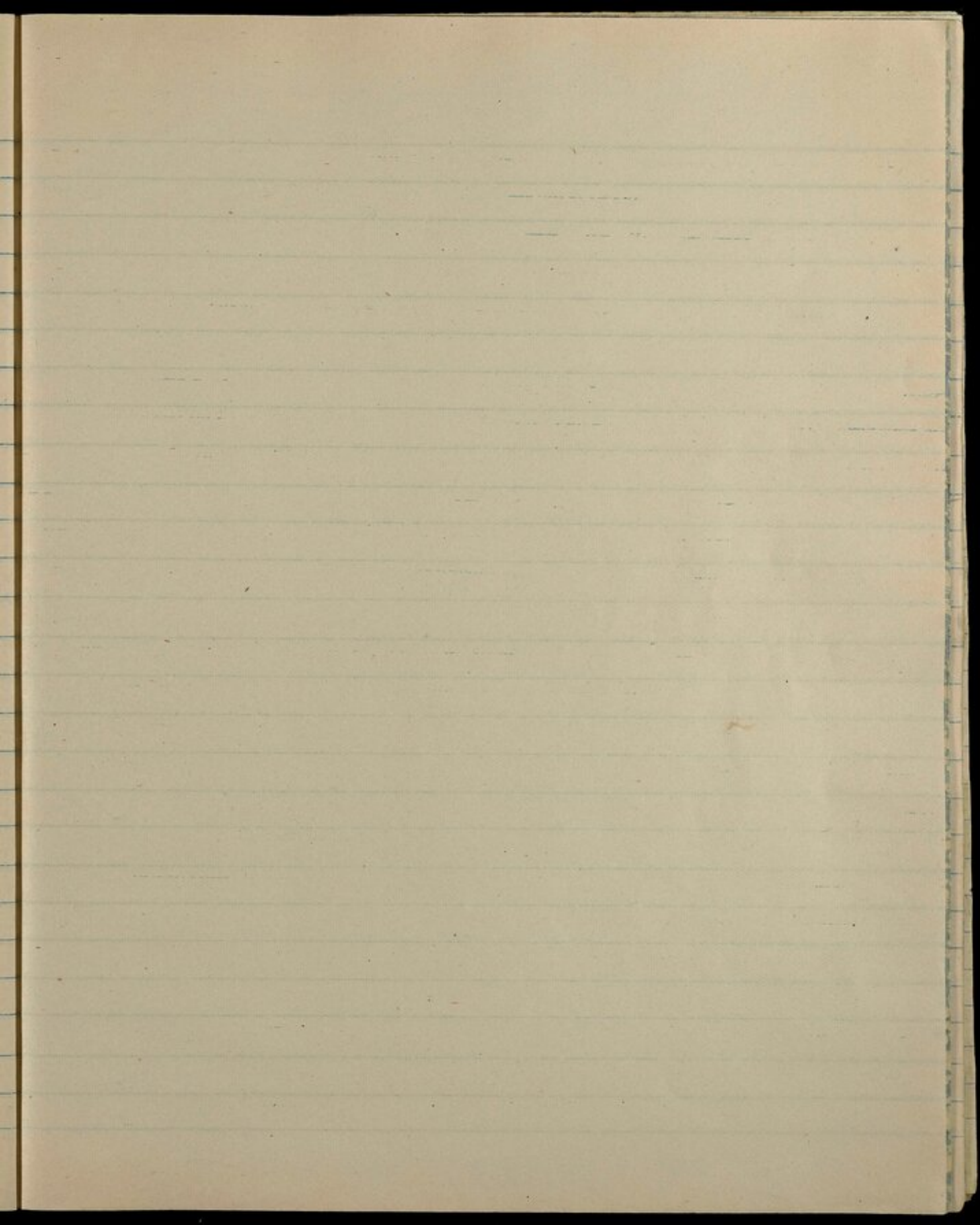


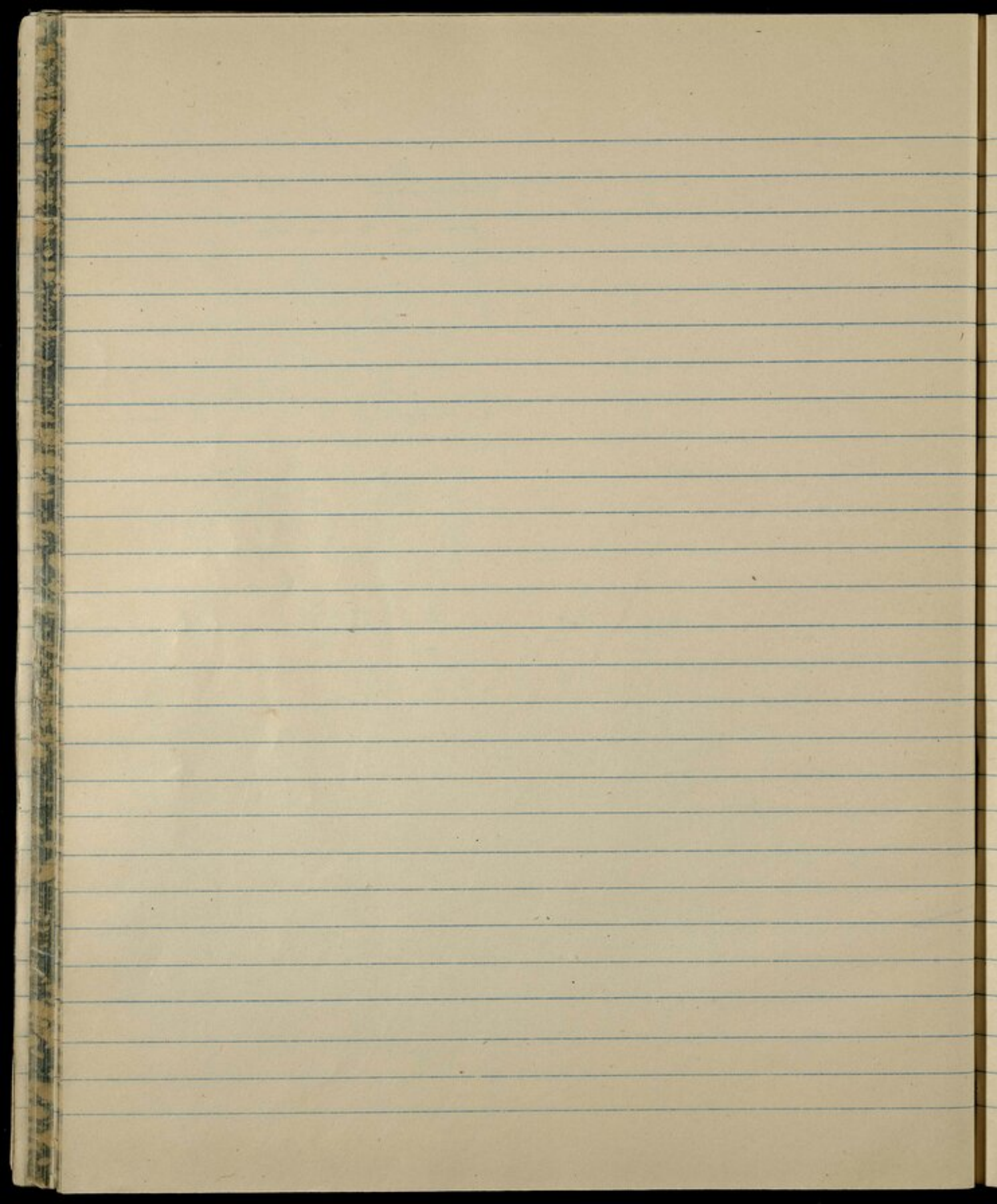


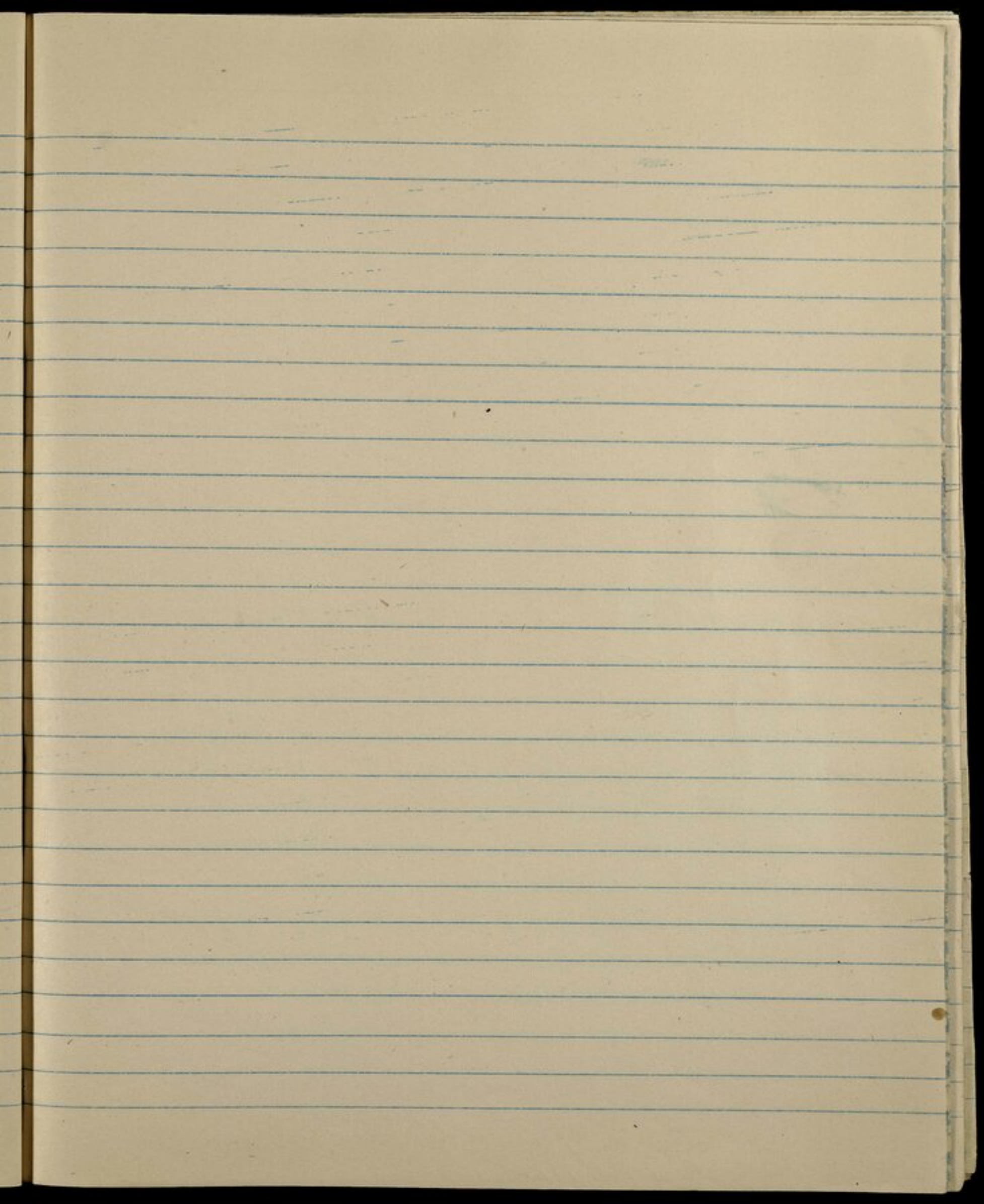


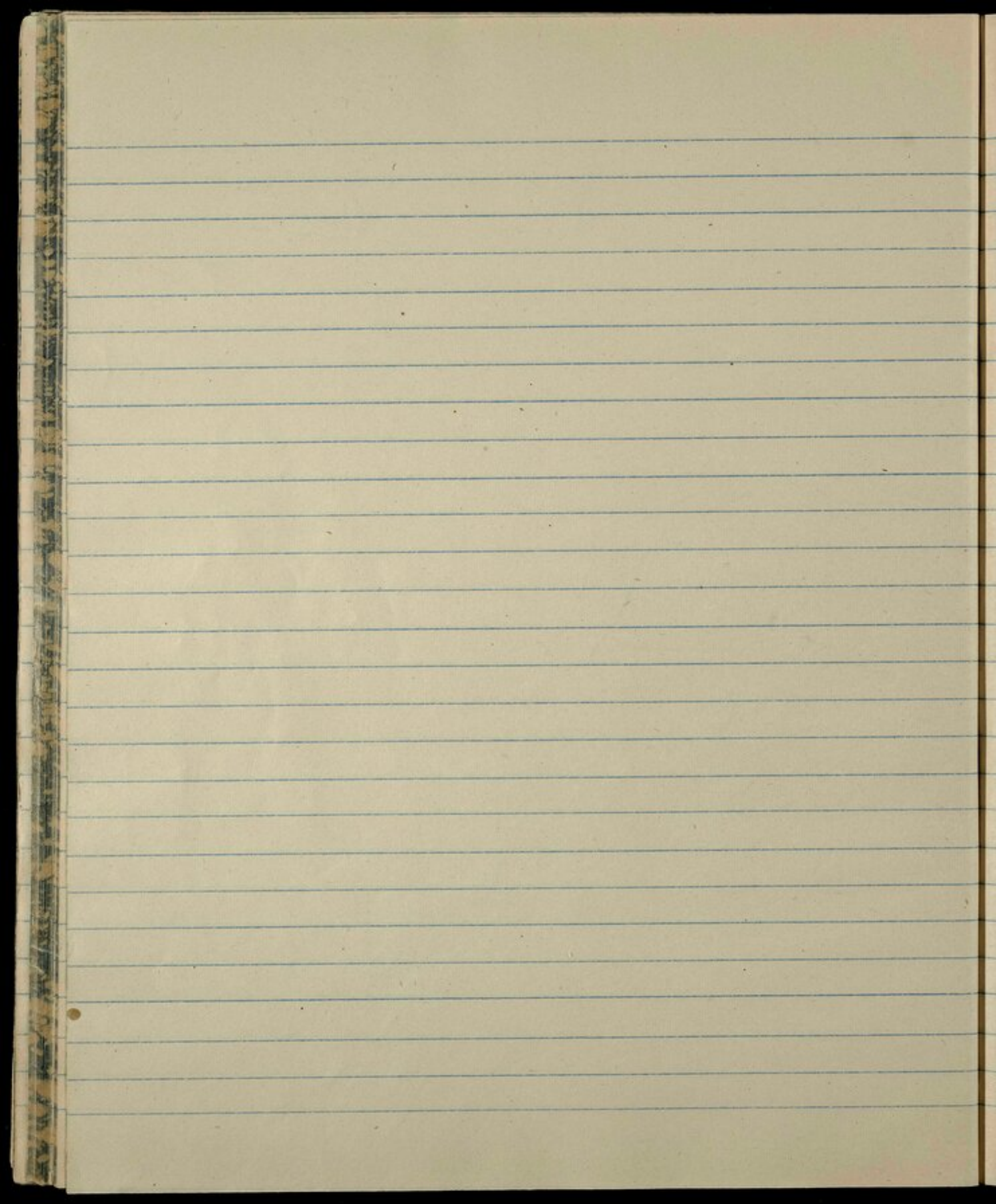


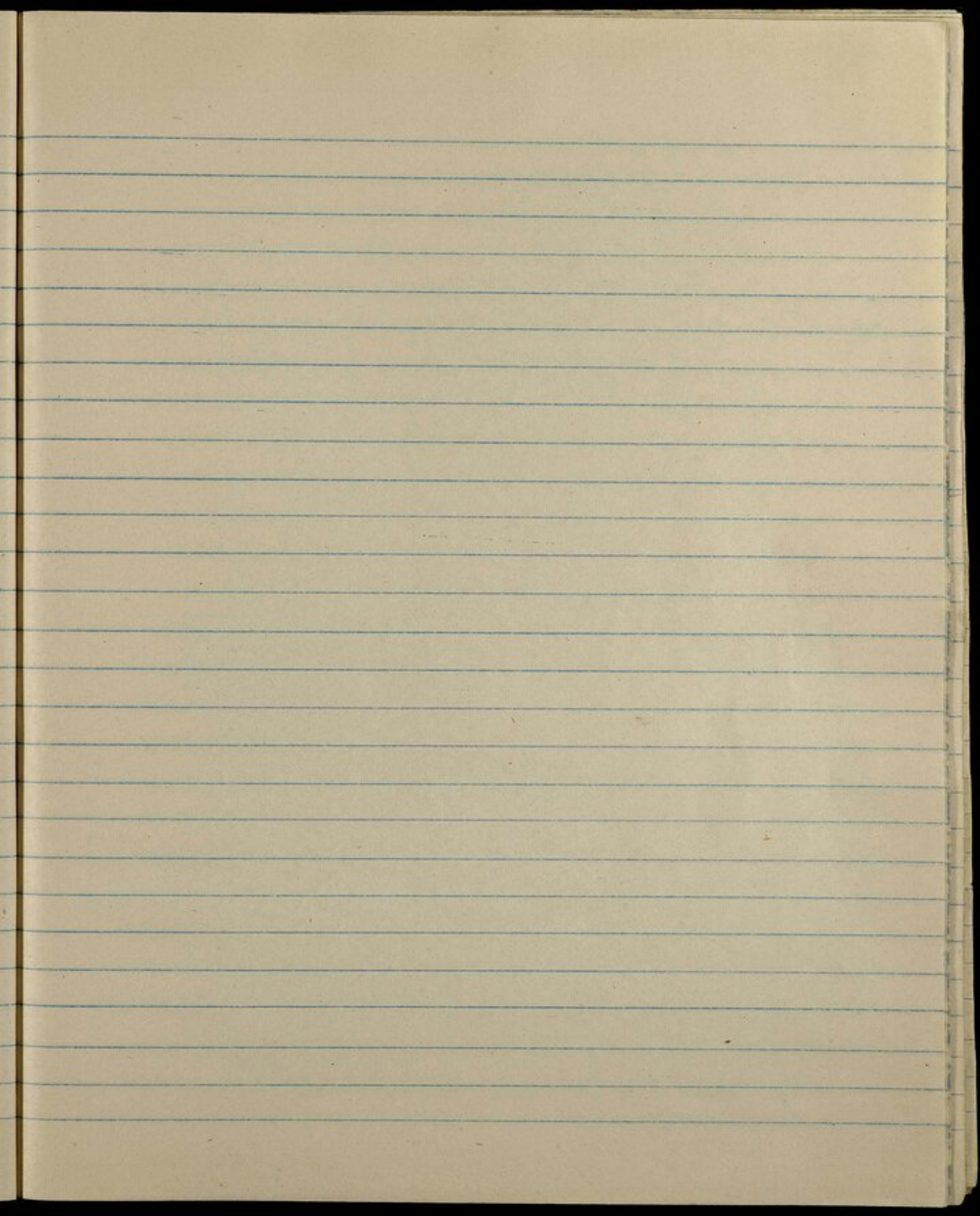


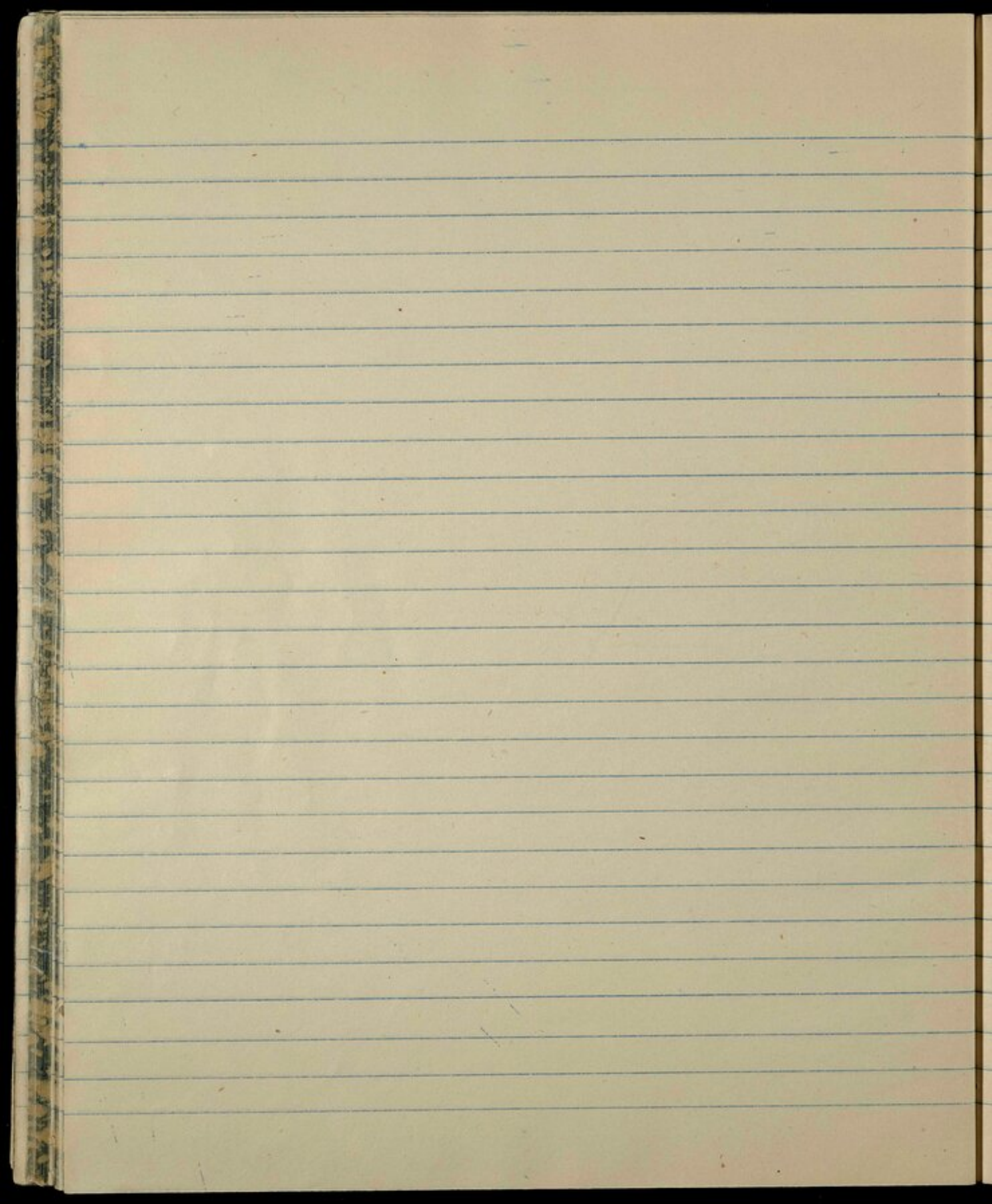


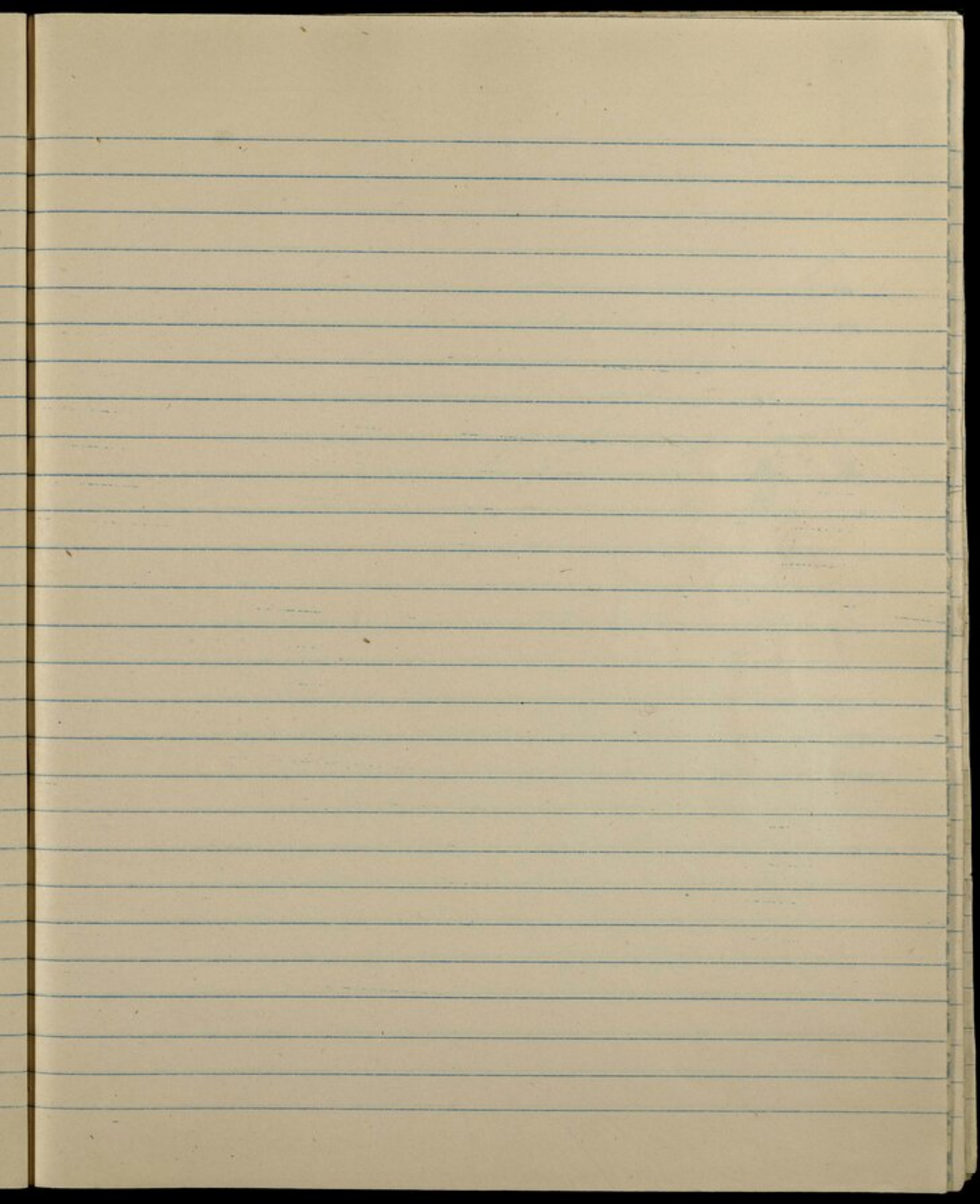


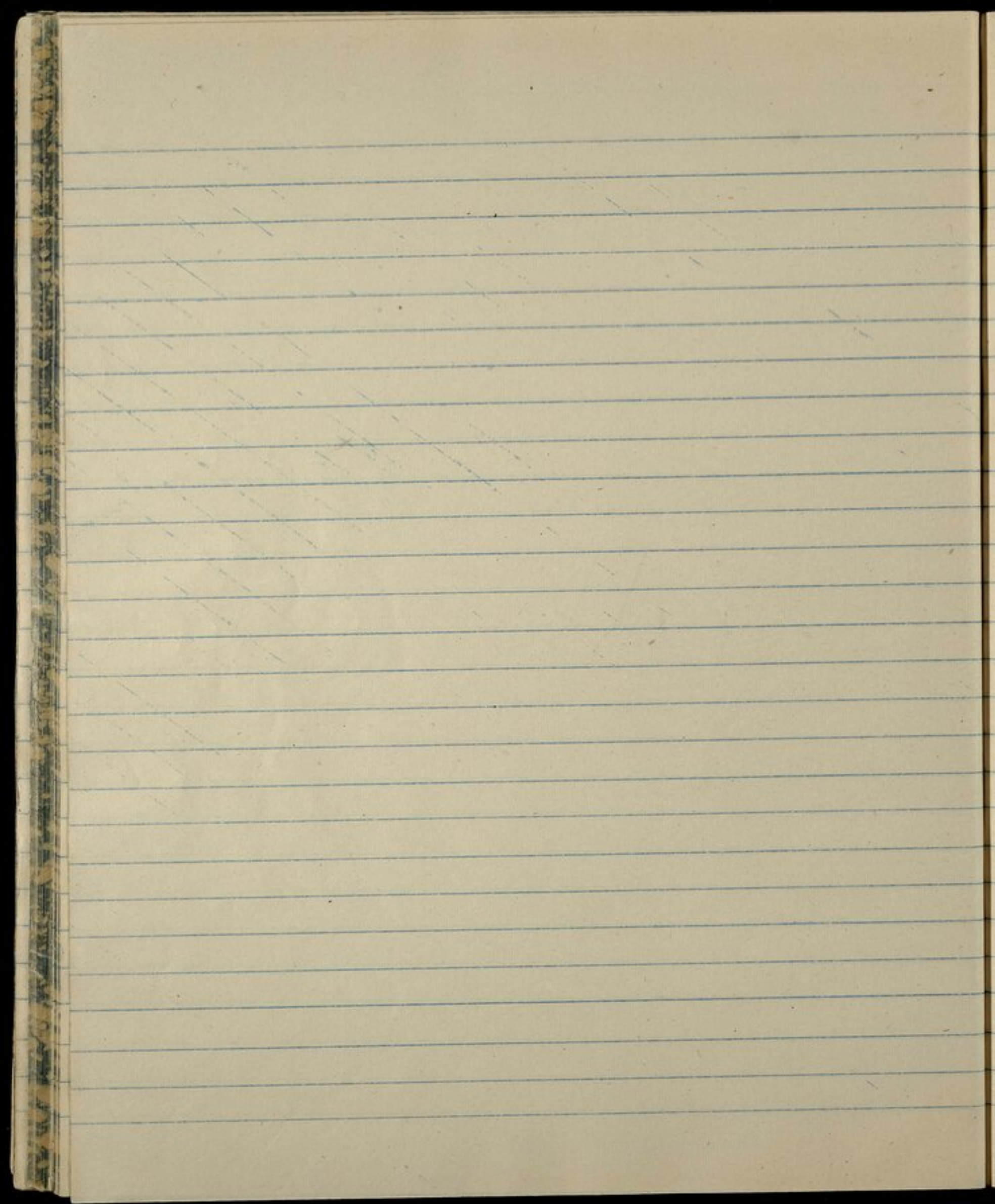


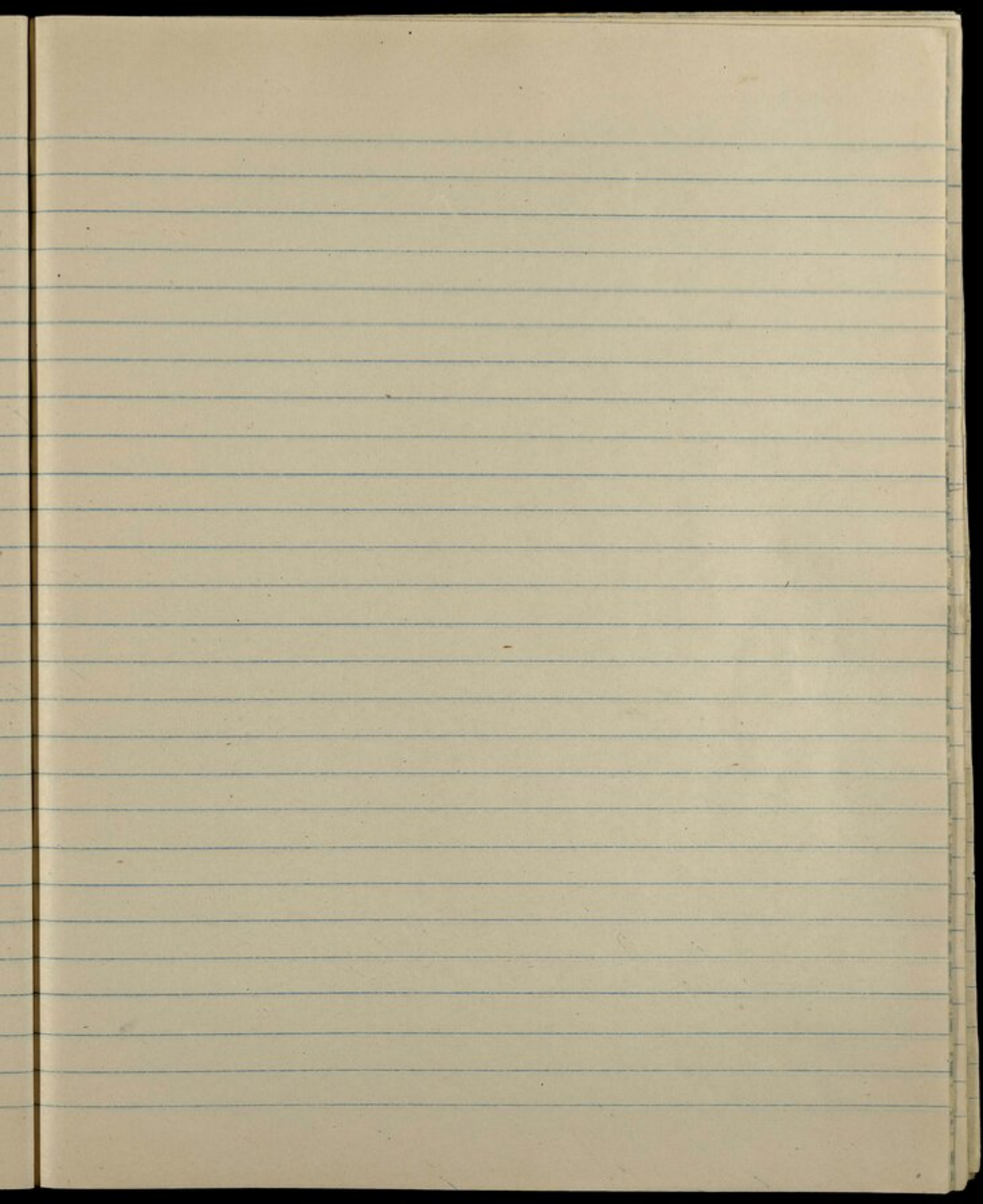


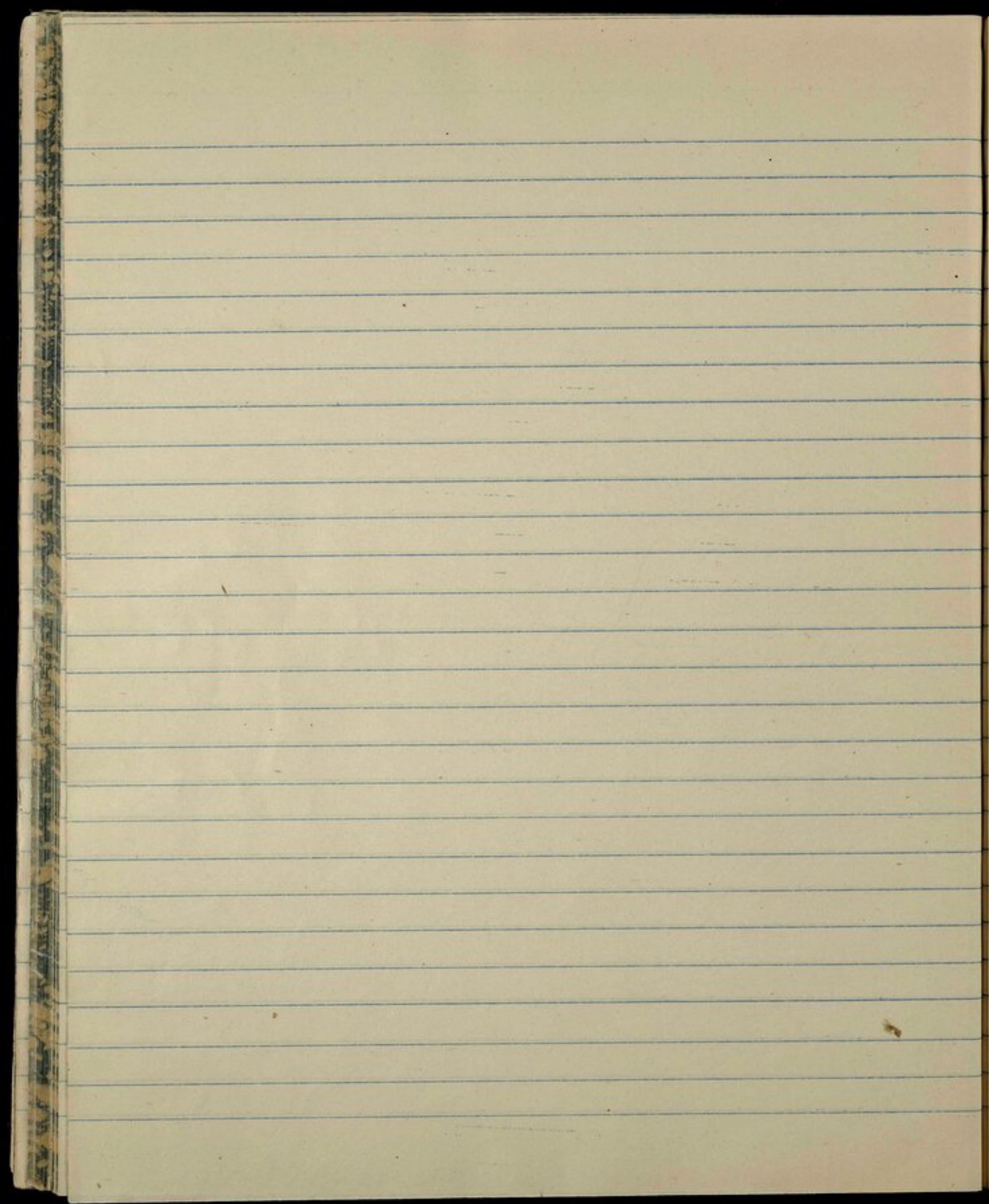


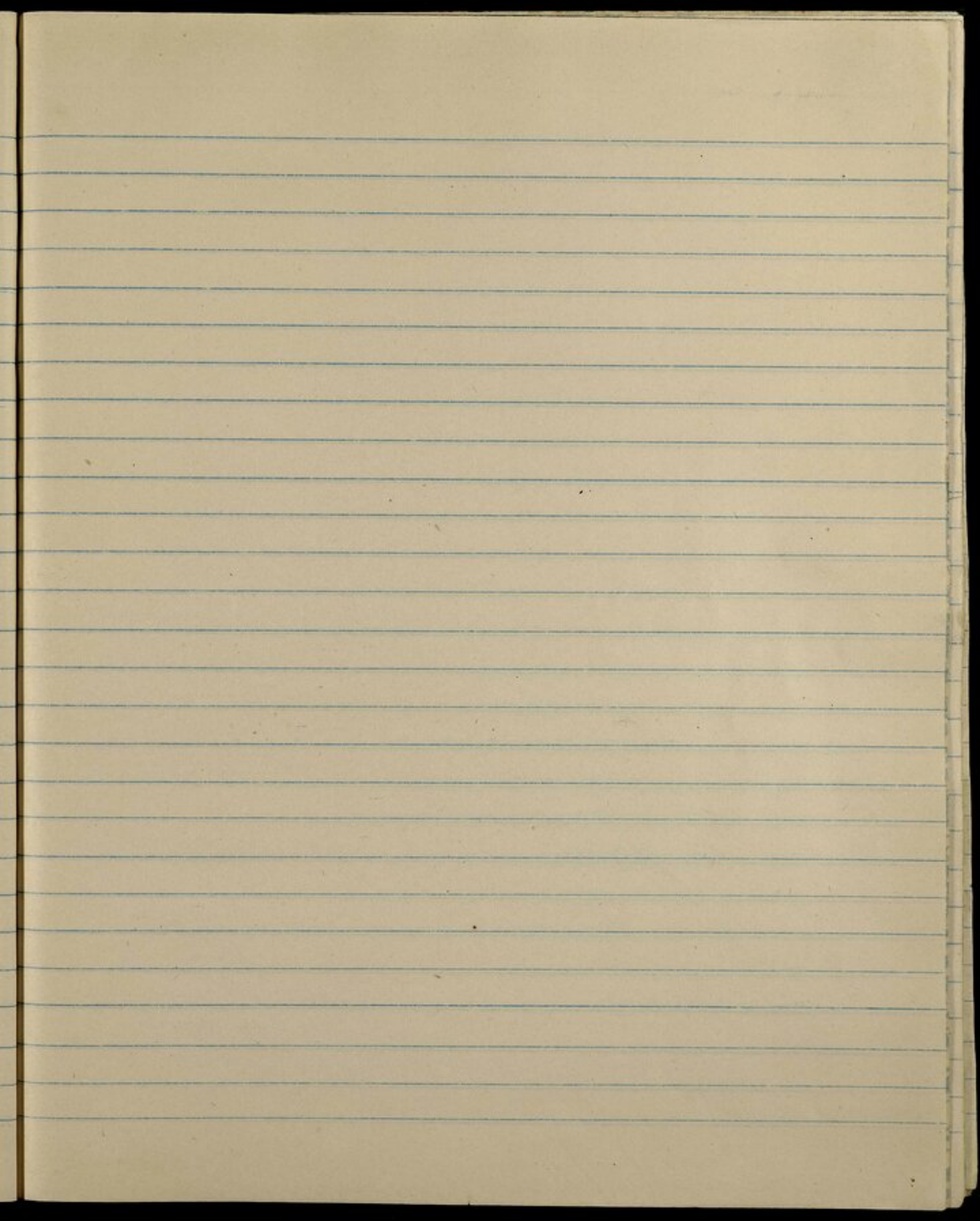


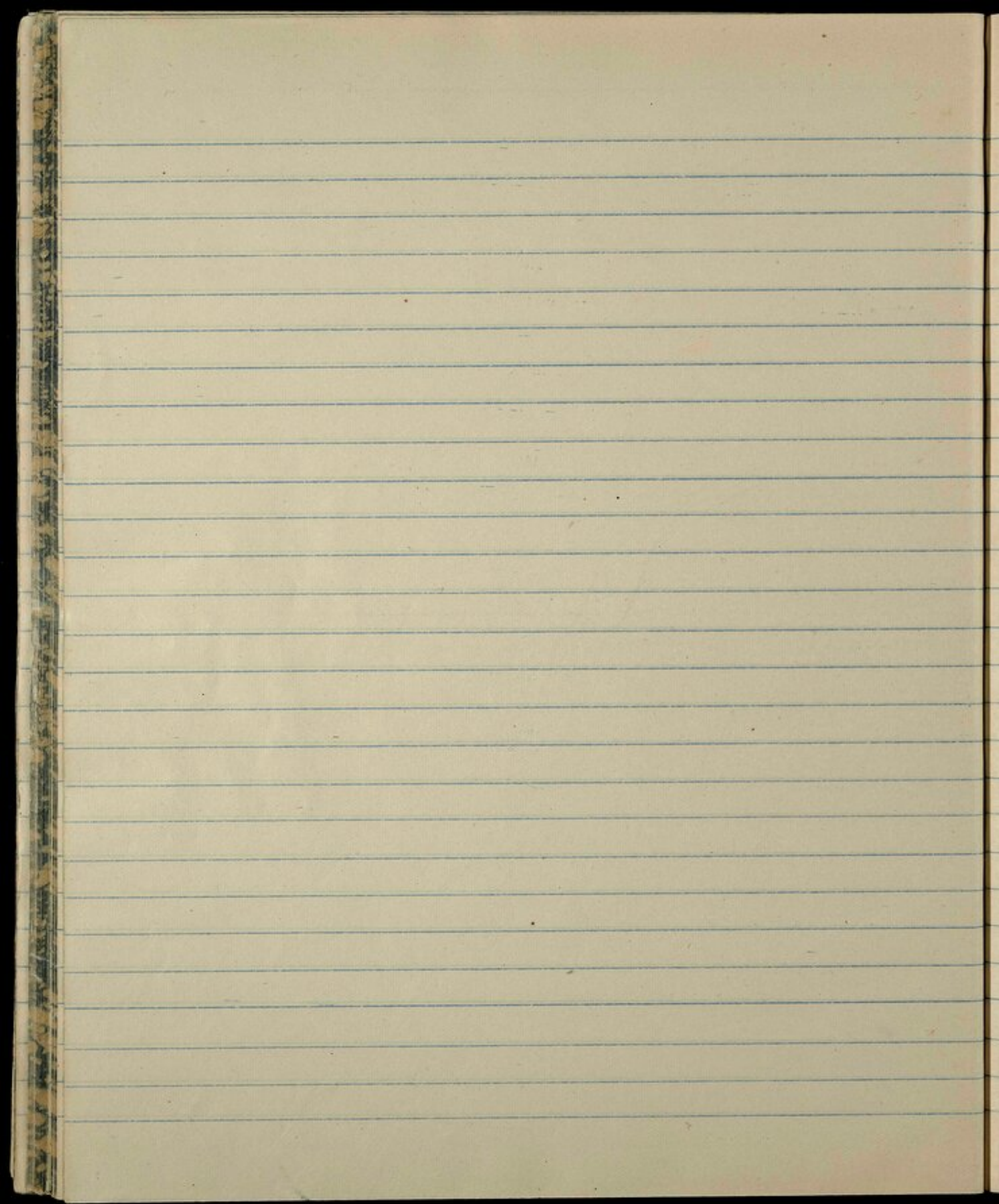


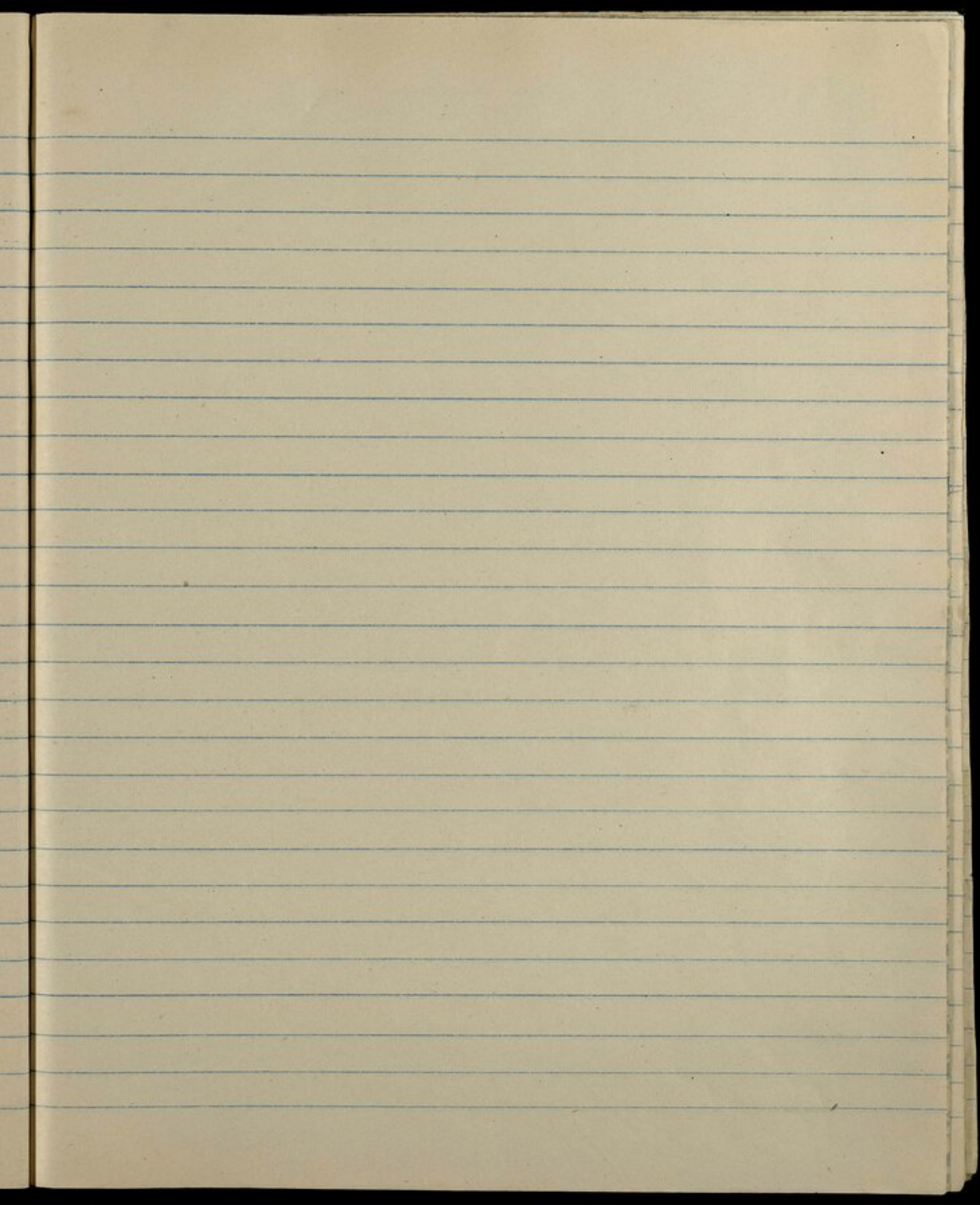


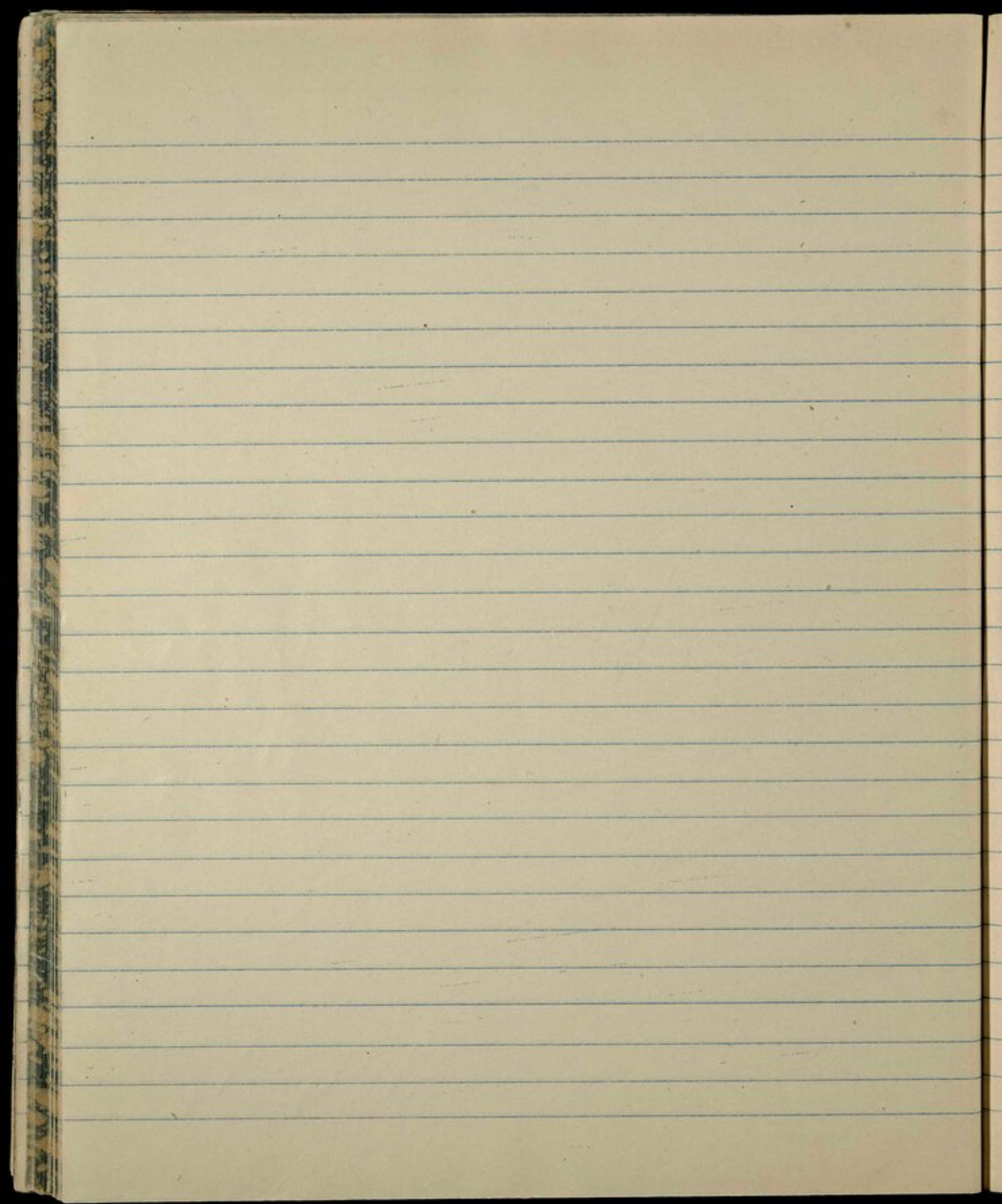


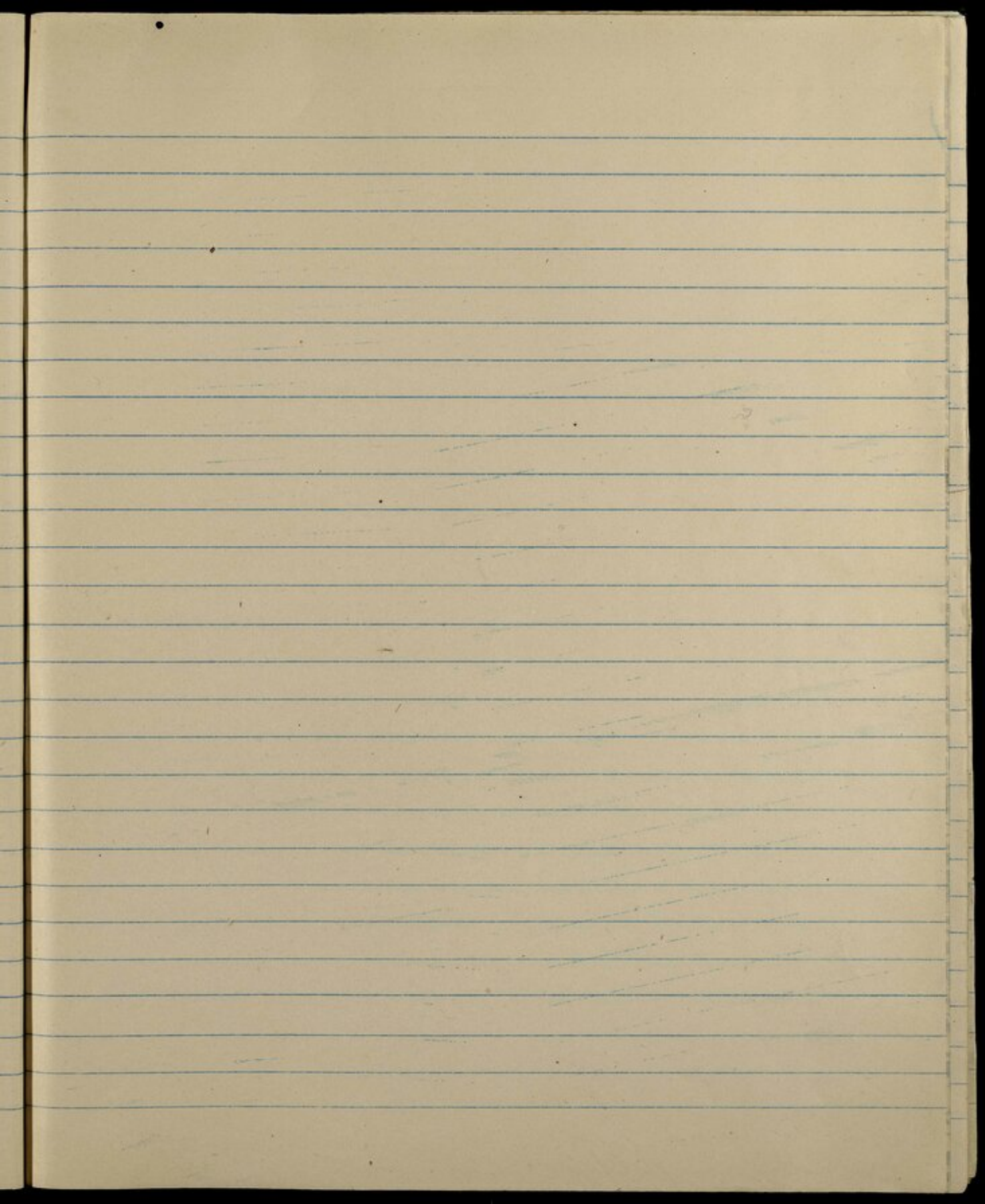


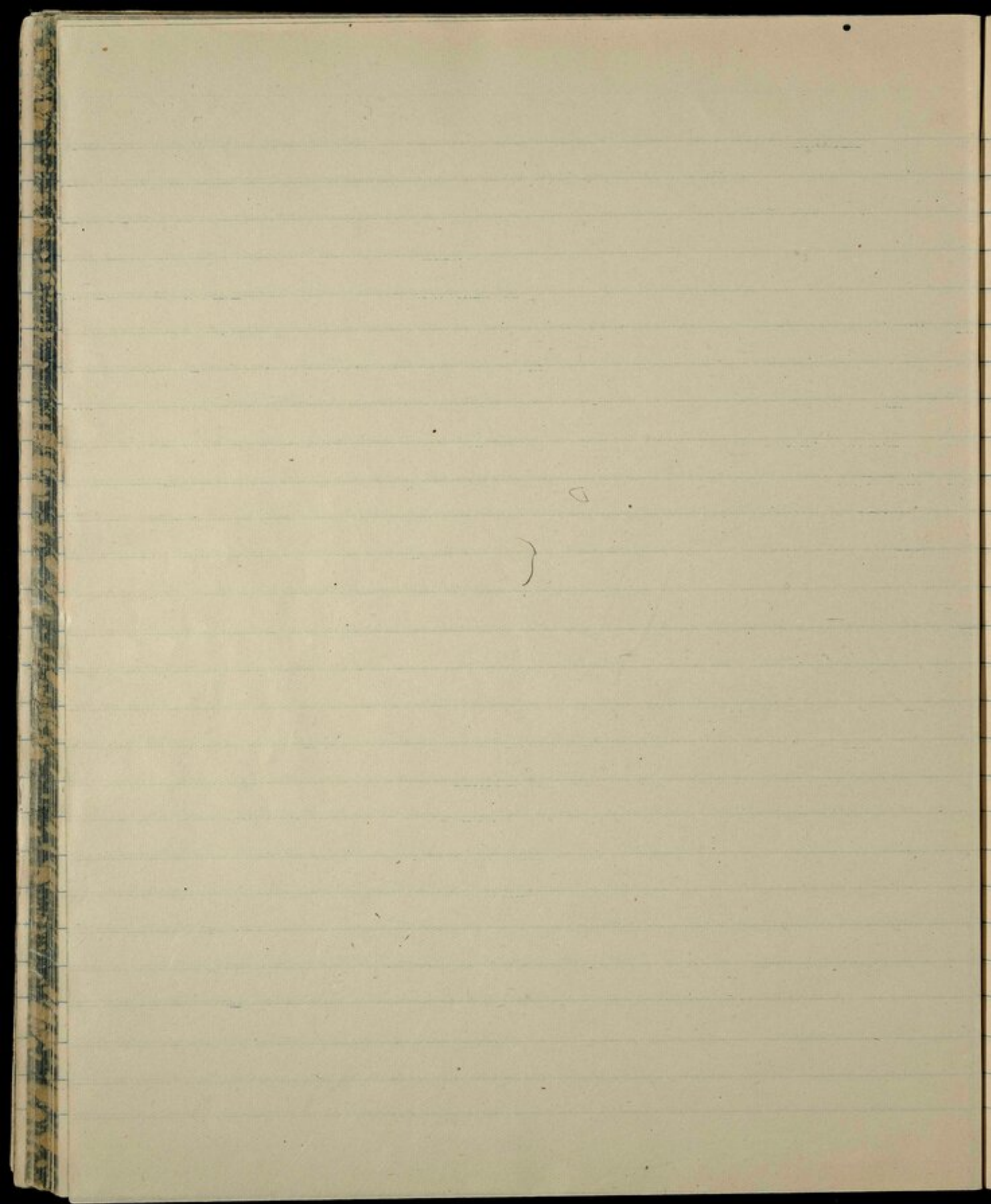


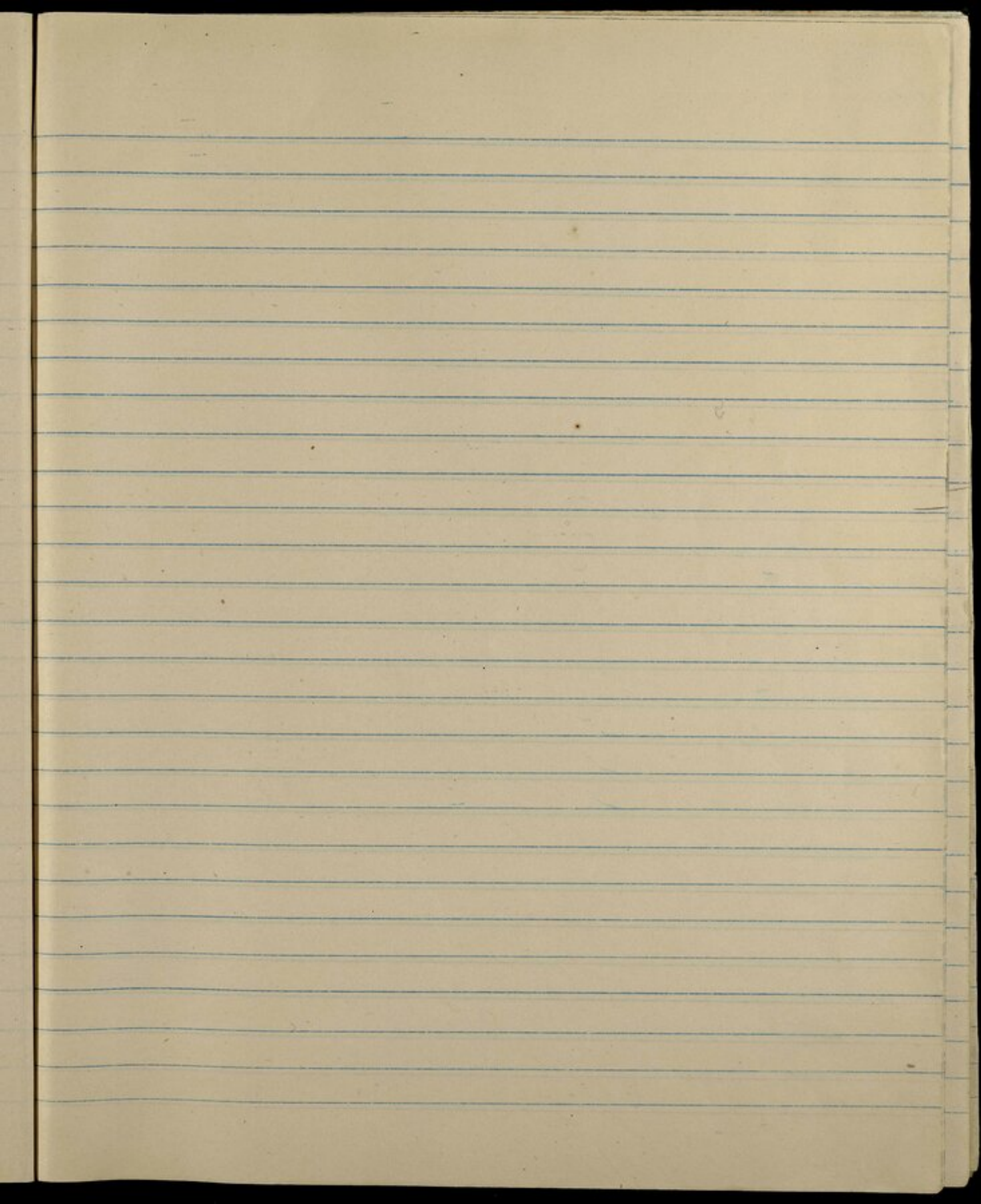


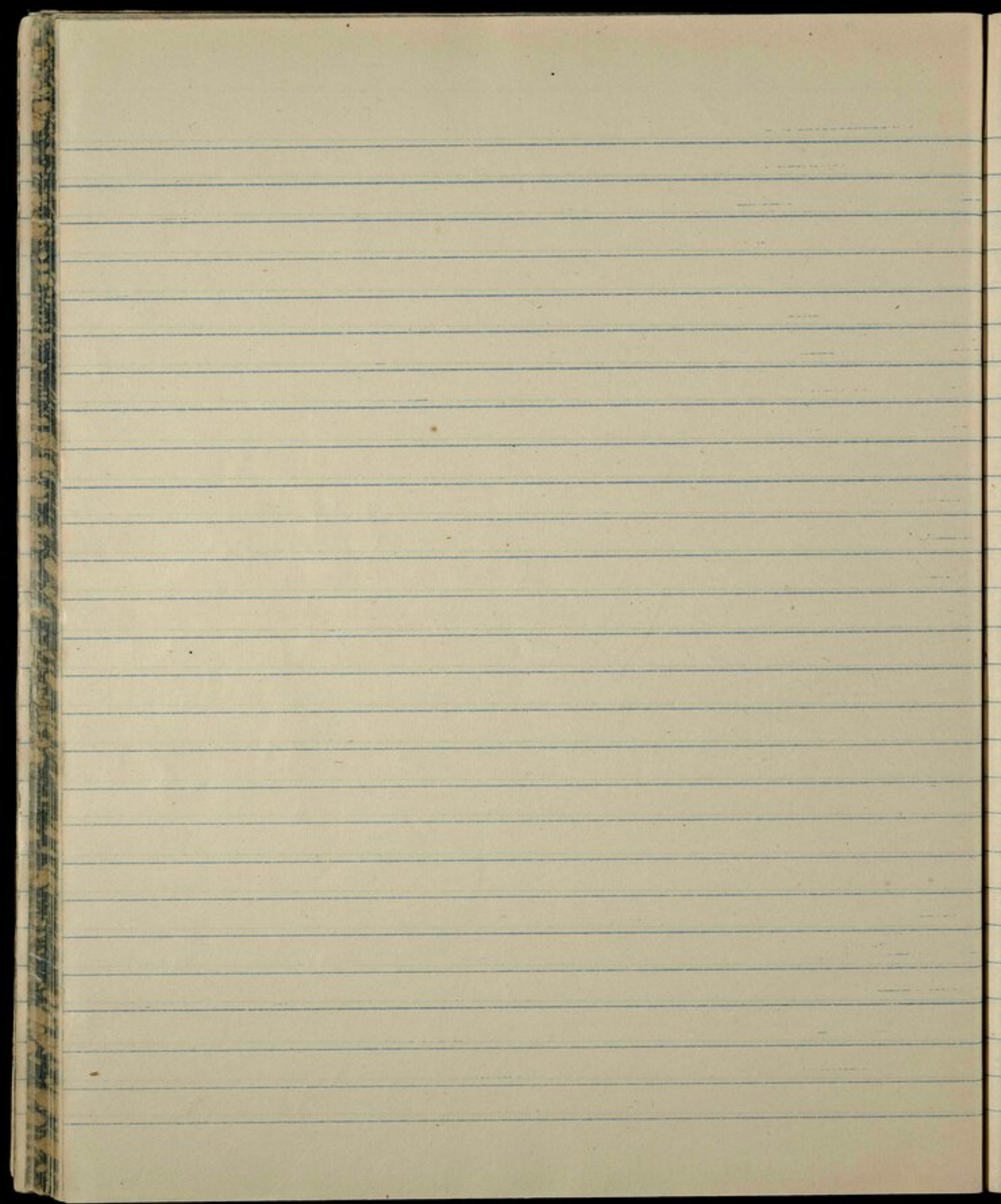


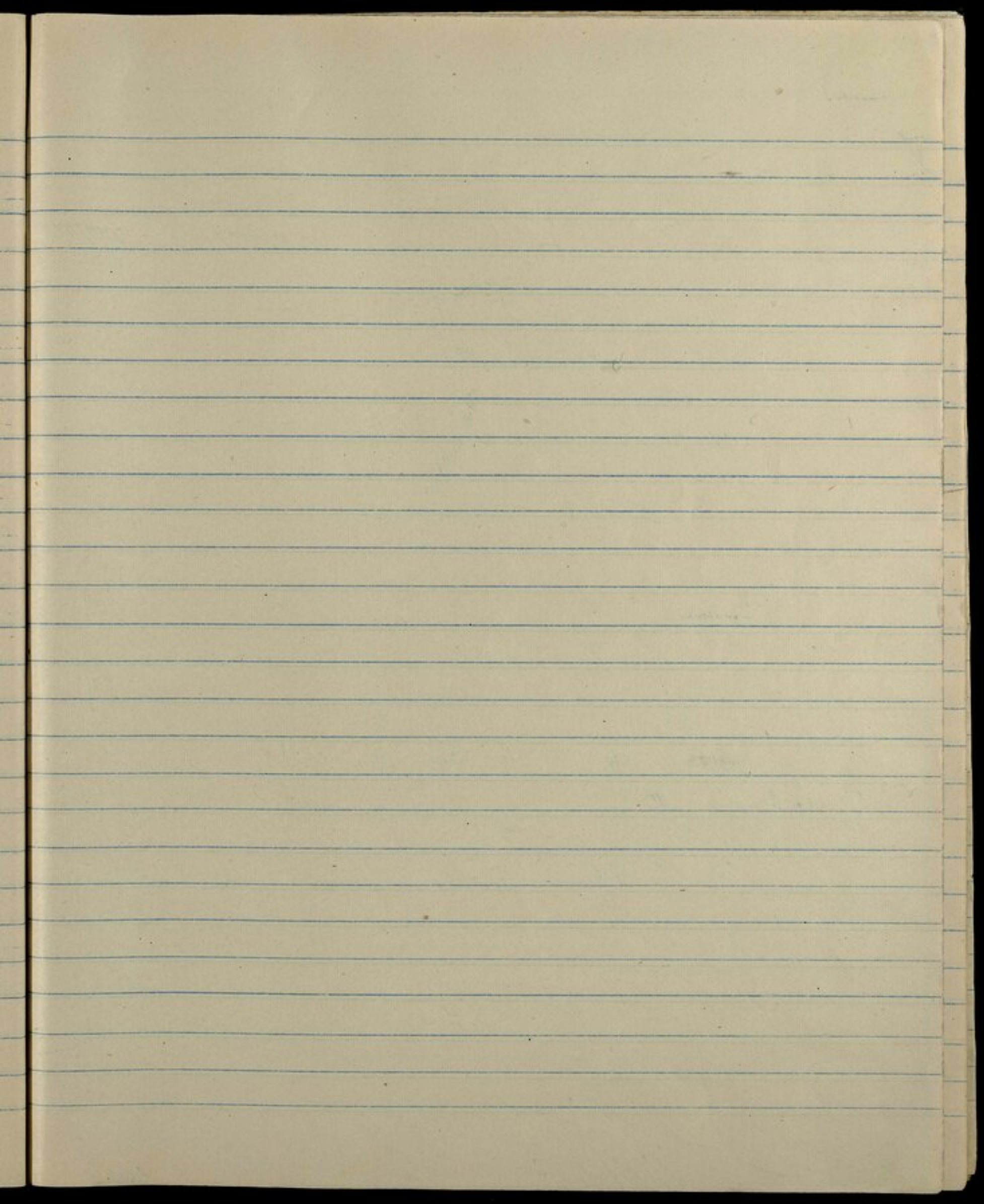


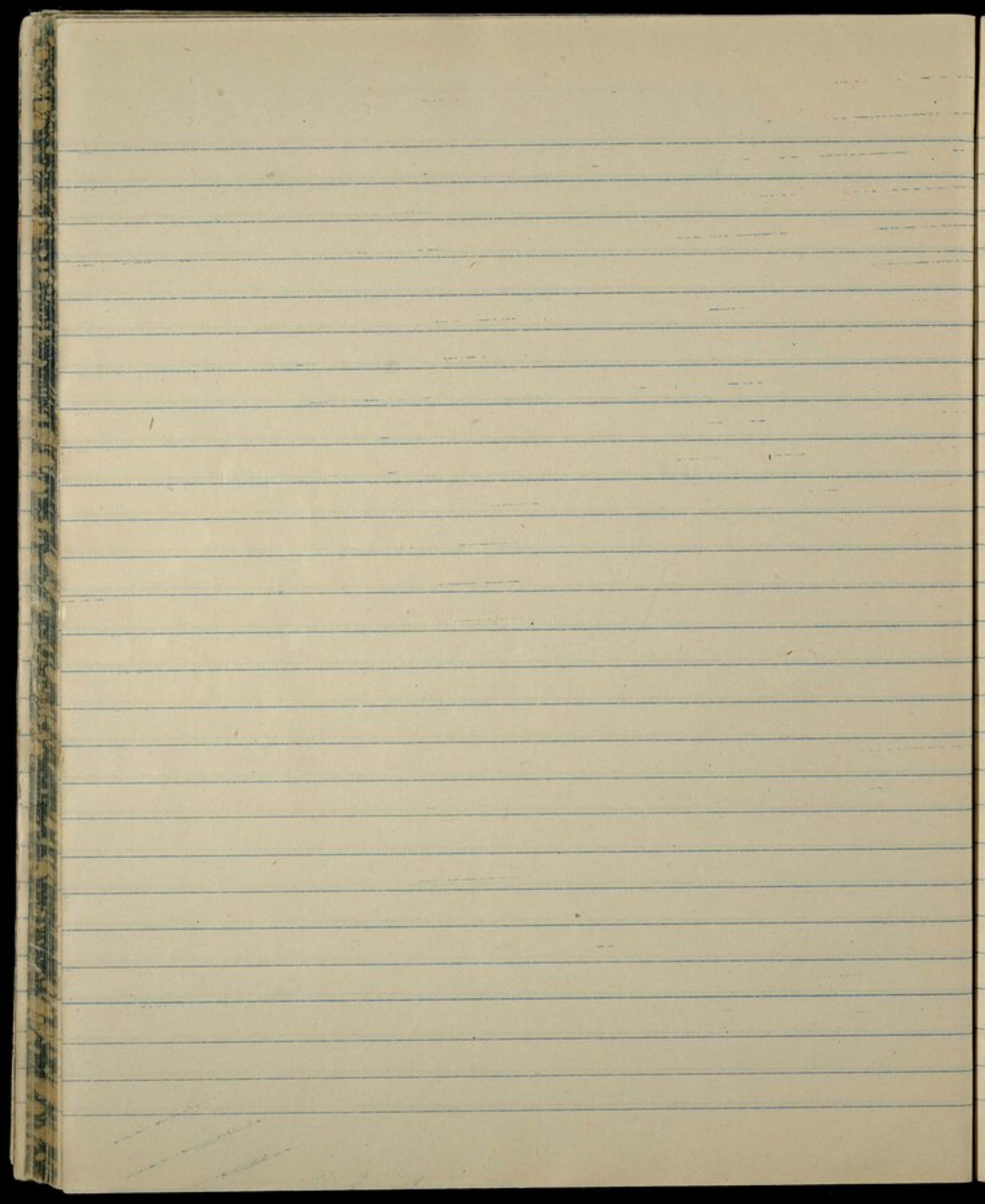


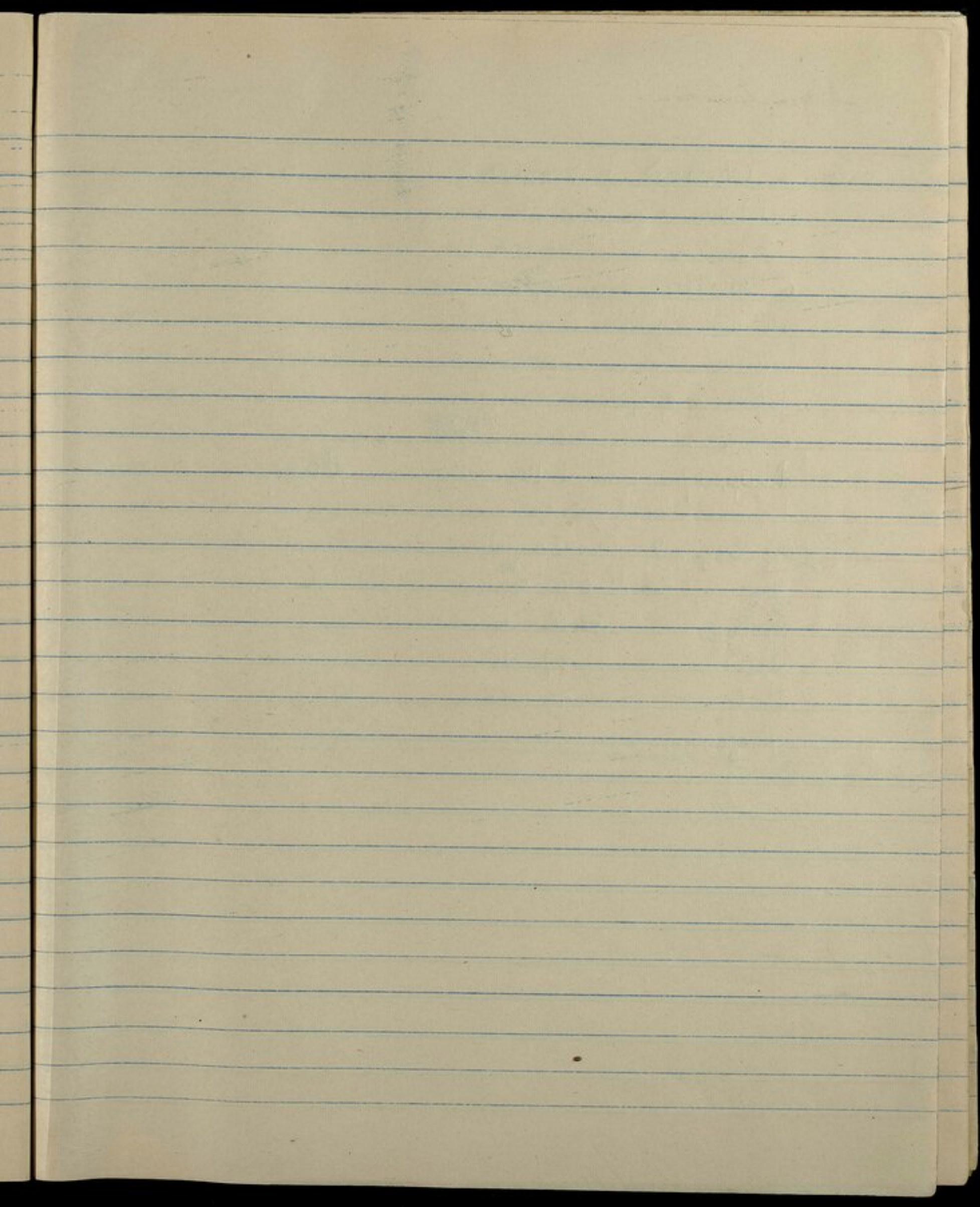










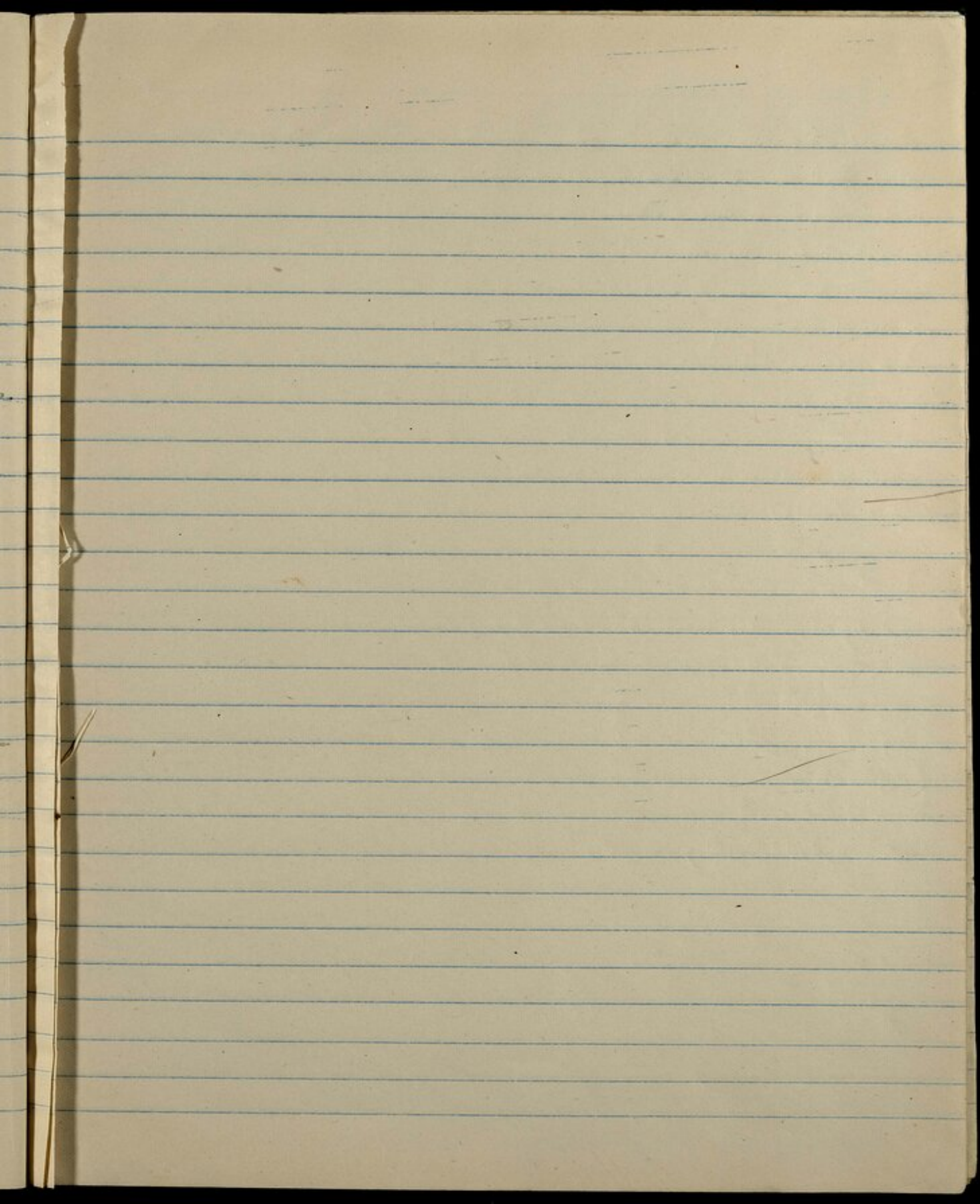


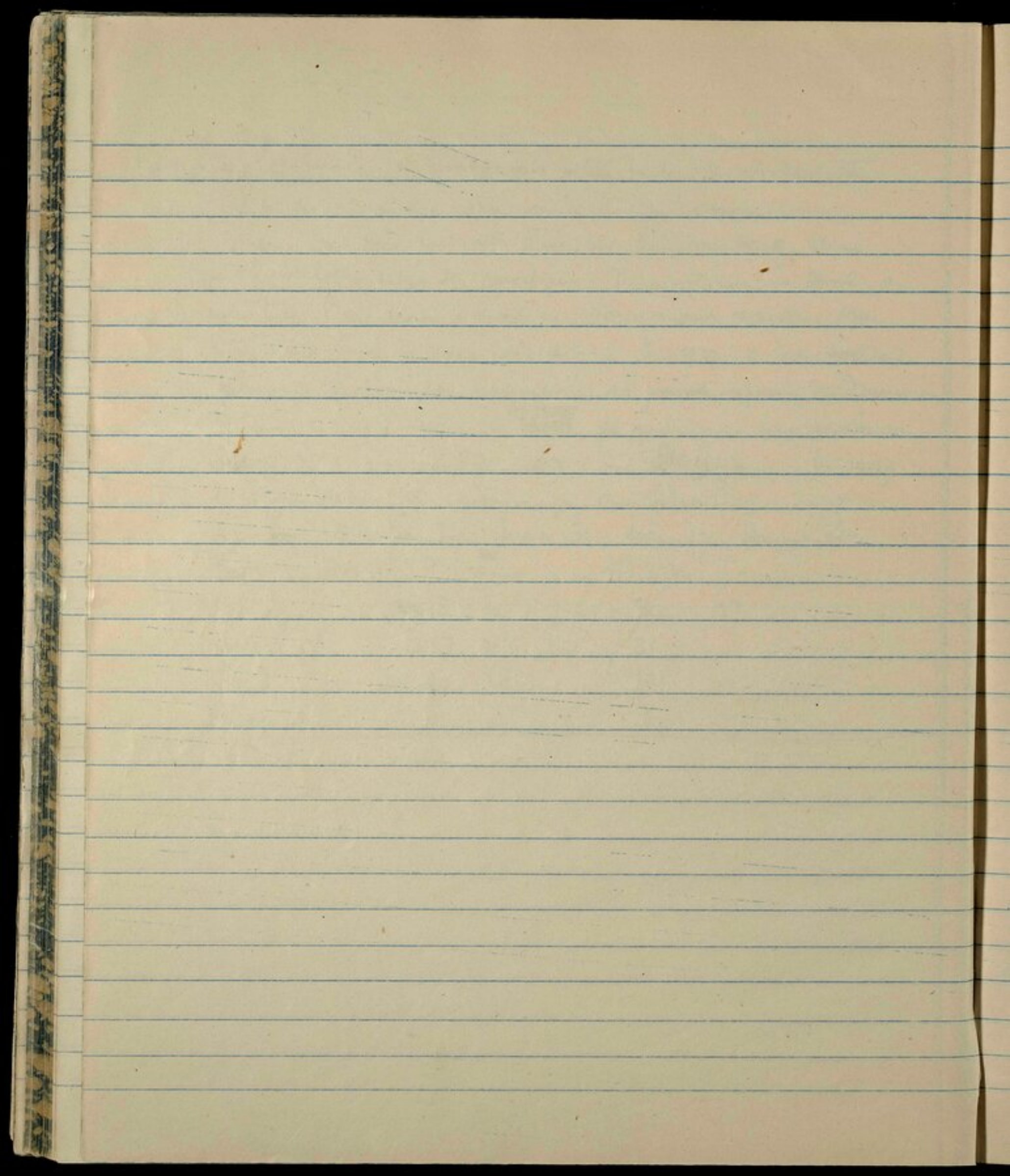
First are Peholarids - a denticulate stem with all atrodentate.

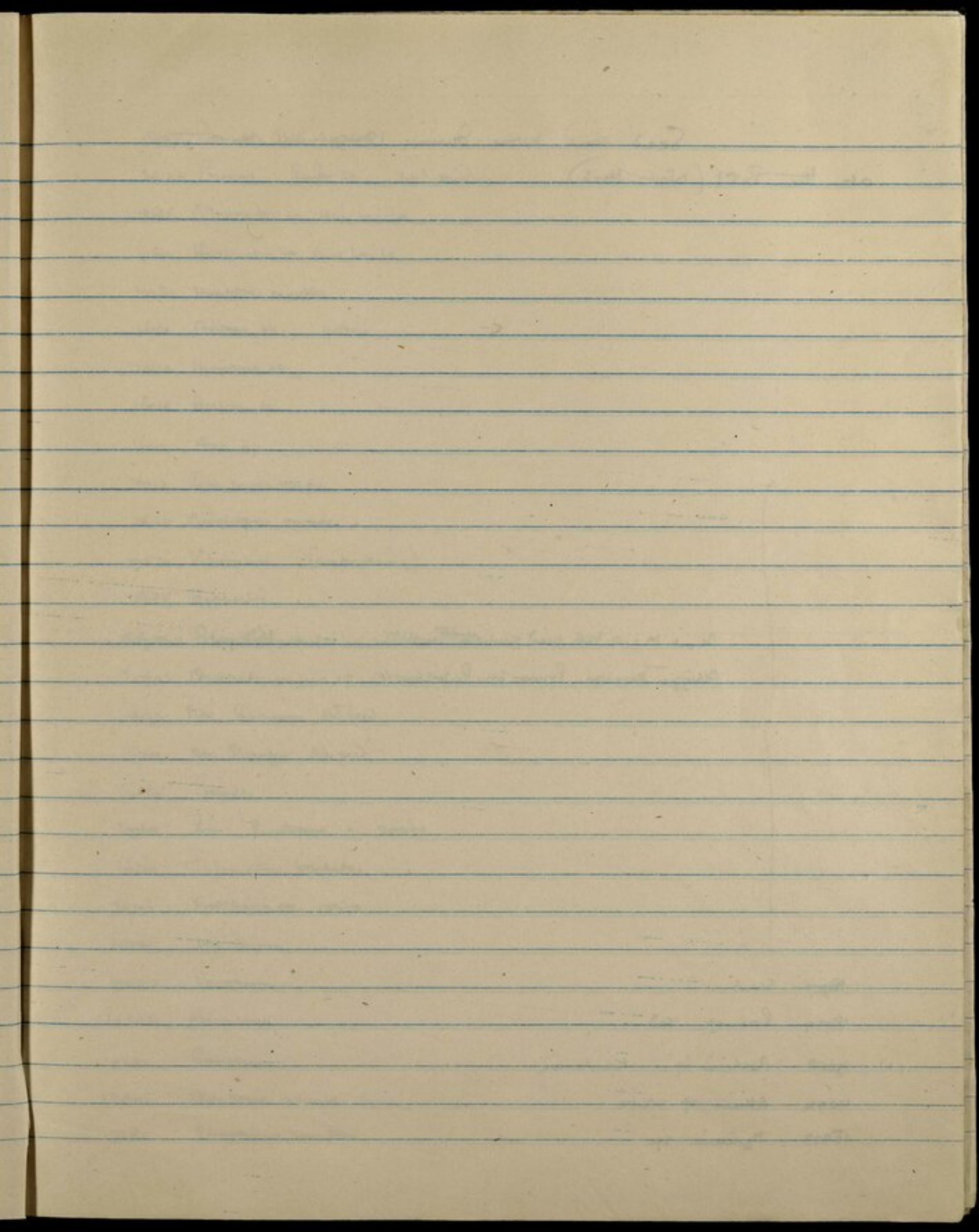
P White & gracilis often com. through the snow.

There is not very much with them, but they cause a stir in themselves, especially gracilis. These flower in April, & with them P bractosa & P filipes, Normana & mollis. After them there is a comparative rush. In 1937, I took 107 gatherings of primulas representing 44 ~~prime~~ species and varieties. Of these 2 were taken in ~~Apr~~^{Apr}, 16 gatherings were made in May, 37 in July, 49 in August. In 1949 I have taken 95 gatherings as follows

	Apr May 9	May 30	June 31	July 19	August 6
May		1937	species	1949	
Apr May	18	10		39	27
June		37	25	31	7
July		49	28	19	0
August				6	0







Seed sent home during 1949, all to A.T.
at the BM (Nat Herb).

About 12-14 plus seed sent to Taylor on or about 16 April. included
Albizzia Duranifolia, *Prunus* from Rindola

- 18907 *Sinus*.
18924 *Rosa* sp. red.
(2) 19058 *Berberis* sp. Kantanang.
19092 *Allium* sp white.
18993 *Mynearia* sp.

- 18957 *Primula* *atrodentata*.
- 20123 *Prunus* *Rubra* La. 2nd seedling.
- 19595 *Cotoneaster* sp. Hing Lai La
- 19592 *Vaccinium* sp. Hing Lai La.
- 19280 *Streptopus* *simplex*
- 16161 *Adonis* sp. yellow.
- 19614 *Myrica* sp.
- 16014 *Berberis* sp.
- 16012 *Acer* sp.
- 16013 *Rosa* *macrophylla*
- 19620 *Codonopsis* sp. var.
- 19570 *Viburnum* (*Pumpkinum*)
- 18685 *Euphorbia*
- 20963 *Ribes*. *Currant*. = 18692. black.
- 20902 *Omphalogramma* sp. old seed.
- 16279 *Mec. Discizera* old seed
- 16709 *Mec. Shariffii* old seed
- (2) 16685 *Primula*
- 20964 *Prim. Sultoriana* : 20937
- 16266 *Thermopsis* *barbata*.
- 16296 *Fritillaria* sp. 15500
- 20921 *Iris* *decora*
- 19545 *Rasperry*.
- 19548 *Rasperry*
- 19579 *Rasperry*
- 18800 *Clintonia* *alpina*
- 19280 *Streptopus* *simplex*

	19836	Primula uniflora.
(2)	19835	" bausensis (alba).
(3)	19832	" umbrabilis (alba)
	19842	" bausensis.

ROOTS COLLECTED.

	19309	Androsace white, large cushions.	13.9.	
	19330	P. Waddellii.	9.9.	
	19167	P. tenuiloba		
	19750 (2)	P. macrophylla.	16.9.	
	19235	Sorbus uva-ursi.	19.9.	All seed eaten by caterpillars.
	19757	Primula strumosa	20.9.	
	19226	Prim. <u>Caucasica</u> <u>white</u> .	21.9	
	19766	- Caucasica.	"	
	19764	Pharadia woolly blue red.	"	
	19767	P. concinna.	"	
	19768 A	Pharadia x strumosa hybrid blue	22.9	} To one place, same for report.
	" B	" " "	"	
	" C	" " white with dark eye	"	
	19771	Aconitum sp. v. fine	23.9	
	19146	Diapensia himalaicum	"	
	19712	Prim. macrophylla v. macrocarpa	"	
	19123	Cypripedium <u>Tibeticum</u>	24.9.	
	19366	Androsace small 4" . 1000'	26.9.	
2	19777 = 19378	P. Leonardianii.	27.9	
	19373	P. Waddellii.	"	
	19404	Androsace glabra.	28.9.	
	19420	Prim. sordanelloides.	29.9.	
	19128	" umbrabilis	30.9	(number not put on).
	19716	Pharadia wine red.	1/10.	<u>NOT TO BE DIVIDED.</u>
	19721 19721	Cent. aff. amoena	1/10	<u>ONLY TWO PLANTS</u>
	19804.	Prim. pumila	31.0	
	19544	Thalictrum chilisorii.	17/10	
	19574	Prim. flagellaris.	16/10	

BULBS COLLECTED.

- ✓ 19292 *Notolium hyacinthinum*. Over 100 full size 75 small 2000? bulbs. Chachua ^{13/9} Laumont
- ✓ 19070 *Nomocharis nana* 130 odd bulbs. Tolugang ^{10/9}
- X ✓ 19674 *Codonopsis* sp. nov. 14 tubers. Also 6 sent home 22.8.
- X ✓ 19490 *Lilium* sp. nov. about 60 sent home 22.8. 430 collected 5/10.
- 19831 *Lilium nepalense*. About 75 big 50 small.
- 19359 19846: *Lilium Wallichianum* 47
- 19852 *Lil. giganteum*
- Lil. nepalense* v. *concolor*.
- 19498 *Notolium macrophyllum*. 12? sent home 22.8 About 150 bulbs 5/10
- X 19465 *Corydalis* white sent 22.8.
- 20956 *Notolium hyacinthinum* pink. bulbs sent 22.8.
- 19352 *Hordia* sp.
- 19710 6 roots of *Aconite*. a fine big plant.
- 19727 *Aconite*. about 2"-4".
- 19497 Small yellow orchid.
- 21250 ^{pink} yellow orchid.
- 20956 *Not. hyacinth.*
- 20843 *Lil. nep v concolor.*
- 20846 *Lil. Wallich.*
- 21192 *Hordia* yellow.
- 21199 *Nom. nana*
- 21270 *Not. macrophyllum.*
- J.H.T.
- C.S.P.

SEED COLLECTED

(in addition to that mentioned in ^{previous pages} ~~the book~~)

18691	<i>Prunus</i> sp. white.	Pangotang.	7.9.	
18800	<i>Clintonia alpina</i>	Chudchi	28.8	
18972 (2)	<i>Sax.</i> sp. cushion plant.	Pangotang.	8.9.	Tolozang 10.9.
19052	<i>Mec. sinuata.</i>	"	9.9	
19082	<i>Rosa</i> sp. red.	Shabjetang.	5.9.	
19135	<i>Salix</i> sp. d. blue	Pangotang.	9.9	
19151 (2)	<i>Conyialis</i> or <i>Fumaria</i> sp. purple-rose.	"	7.9	+9.9.
19270	<i>Sax. stoloniferum.</i>	"	6.9	
19280 (2)	<i>Shepherdia simplex.</i>	Hinglai La	24.8	Yulo La 31.8.
19580	<i>Dicentra</i> yellow.	Chudchi	18.8	
19613 (4)	<i>Bryocarpum himalaicum.</i>	Chalai La	21.8.	Shole La 27.8. Hunketa 27.8. Chale La 18.8
19617	<i>Mec. superba.</i> from press.	Ha La	17.8	
(2) 19632	<i>Cotoneaster</i> sp.	Tsalinape.	23.8.	
19642 (2)	<i>Iris</i> (decor?)	Hinglai La.	24.8.	
19651	<i>Raspbery</i> red.	Monle La.	26.8	
19653	<i>Berberis</i> sp.	"	27.8	
19669	<i>Gaultheria</i> sp.	Yulo La.	31.8	
19693	<i>Visnum</i> sp. 'Pumpa shini'	Bumtrang.	2.9.	Prompt to Ngundup.
19676	<i>Schizandra</i> sp.?	Shabjetang	5.9.	
19677	<i>Berberis</i> sp.	"	5.9.	
19681	Red Cherry.	"	6.9.	
19683	<i>Berberis</i> sp. red fruit.	Shimitang	6.9	
19687	Red Currant.	Pangotang.	7.9	
19691	<i>Raspbery.</i> red yellow.	"	7.9	
19695 - 19126	<i>Arabis</i> small.	"	8.9	
19697 - 19130	<i>Arabis</i> large. (red)	"	8.9	
19715	<i>Polygonum.</i> fine spikes.	"	9.9.	

18995 (2)	<i>Mecumia simplicifolia</i> .	Pangraung.	9.9.	Fair abun.
19733	<i>Fumaria</i> sp (yellow) sereptant.	Tologang.	10.9.	
19720	Sax. sp. 2"-2½" yellow.	"	10.9.	
19712	<i>Prim. macrophylla</i> v <i>macrocarpa</i> .	Pangraung.	9.9.	Not much seed.
19419 km	<i>Rheum nobile</i>	"	9.9.	
18973	<i>Daphne</i> sp. small 1'-2'	"	9.9.	
19331	Labiata. furry leaves flowers below.	Tologang.	10.9.	
19739	<i>Poleubia</i> sp.	Chadanta route.	13.9.	Not v (un)
19744.	<i>Saxifraga</i> sp. white fls.	"	"	
18950	<i>Pinguicula</i> sp.	Pangraung.	10.9.	v little seed.
18957	<i>Prim. atrodentata</i> .	Chadanta.	13.9.	High altitude. (un) seed.
19688.	<i>Sedum</i> sp. yellow.	Pangraung.	15.9.	
18972	Sax sp. yellow cushion pl.	Tologang.	12.9.	
19030	<i>Prim. sibirica</i> or <i>Hesperana</i>	-	16.9	
19403	<i>Coridalis</i> or <i>Fum.</i> br. yellow	-	16.9	(un)
19745	<i>Mec. sinuata</i> . 1000.	Lubang, La	14.9.	(un)
19746	<i>Prim. reticulata</i> .	Kantaman	14.9.	v little.
19747	" <i>elongata</i> .	"	14.9	
19750	" <i>macrophylla</i>	Tologang	16.9.	
19698	<i>Cauldweestaedia himalaica</i>	Pangraung.	8.9.	seed in pod - not fully ripe. Tin.
19752 (2)	<i>Aconitum</i> sp.	Whitang.	19.9.	2000 ft. of bulbs.
18972	Sax yellow. Cushion plant.	-	"	
19747	<i>Primula elongata</i> .	-	-	
19757	" <i>strumosa</i>	-	-	
18943	<i>Myrica</i> sp.	"	20.9.	
19697: 19130	<i>Arabis</i> sp.	"	19.9.	
19123	<i>Cypripedium tibeticum</i>	"	"	

	19758	<i>Lycium</i> sp.	Waikang.	20.9	6" big calyx flower?
	19202	<i>Anemone</i> sp. (yellow)	-	-	likely a mixture of yellow stems.
(2)	19205	<i>Mec. simplicifolia</i>	Ward	-	-
	19207	<i>Anemone</i> blue	high alt.	-	-
(2)	19755 = 19201	-	-	-	<i>Thymus</i> some one.
	19259	<i>Thalictrum</i> sp. small flower	Panautan "	19.9.49	
	19005	<i>Potentilla</i> aff. <i>curviseta</i> .	"	20.9.	
(3)	19232	<i>Anemone narcissiflora</i>	"	21.9	
2 Bags + 1 env.	19764	<i>Atlandia</i> sp. woolly - <u>r. fine</u>	"	"	
	19765	<i>Saxifraga</i> sp. small - purple fls -	-	-	
	19762	<i>Saussurea</i> sp. big woolly white head -	-	-	15" 18"
	19146	<i>Diapensia himalaica</i> .	"	23.9	
	19380	<i>Centhaia pulchralyx</i>	"	-	
	19190	<i>Prim. bellidifolia</i>	-	24.9	
1930	19697	<i>Arabis</i> sp.	-	24.9	
2 tris.	19135	<i>Anemone rupicola</i>	Panautan	25.9.	
	18974	<i>Androsace</i> sp. big.	"	-	
	19123	<i>Cepipedium hibernum</i>	"	-	
	19688	<i>Sedum</i> yellow 3".	-	-	
	18973	<i>Daphne</i> sp. 1-2'	-	-	
<u>19775</u> =	18981	<i>Prim. elongata</i> .	Waikang	26.9	
	19395 and 6	<i>Prim. sikkimensis</i> .	-	-	
	19416	<i>Prim. capitata</i> .	"	-	
	19773	<i>Potentilla</i> May = 19350 red.	"	"	
	19146	<i>Diapensia himalaicum</i> (pod).	"	27.9	
	19147	<i>Prim. sapphirina</i>	"	-	
	19352	<i>Lloydia</i> sp. white	"	-	

19689	<i>Polygonum vacinifolium</i>	Manem	27.9
19779	<i>Cent. pulchella</i> = 19380	-	-
19433	<i>Salix</i> sp. (small)	-	-
19183	<i>P. umbrosum</i>	-	28.9
19344	<i>Potentilla curviseta</i>	-	27.9
19373	<i>Prim. Waddellii</i>	-	-
19399	<i>Delphinium</i> sp. scree	-	28.9
19402	<i>Armeria inornata</i>	-	-
19423	<i>Prim. maculosa</i> var <i>macrocarpa</i>	-	-
19777	<i>Prim. Leonardii</i>	-	27.9
19778	<i>Sax.</i> pink 9"	-	-
19780	?	-	-
19781	<i>Prim. atridentata</i>	-	28.9
19366 2	19782 <i>Androsace</i> 4"	-	27/28.9
19783	<i>Prim. sikkimensis</i> var.	-	28.9
19103	<i>Prim. albicoma</i> var <i>luna</i>	Langtan	30.9
19128	" <i>umbrosum</i>	-	-
18972	<i>Sax.</i> sp. yellow cushion	Tolyan	2.10.
18975	<i>Berberis</i> sp 1'	Langtan	30.9
(2)	18992 <i>Cauldentia</i> himalaica	-	25.9
19305	<i>Sax.</i> sp. yellow 1" with <i>P. umbrosum</i>	Tolyan	2.10.
19331	<i>Labiata</i> . woolly. 10-seed!	-	-
(2)	19332 <i>Prim. umbrosum</i> . grey form	-	-
19423	" <i>maculosa</i> var <i>macrocarpa</i>	-	-
19729	<i>Suaeda</i> 15"-18"	-	-
19731	<i>Sax</i> sp. yellow 4-5" ♂ ♀	-	-
19128	<i>Prim. umbrosum</i> var.	Nandating	3.10.

16916

	19135	<i>Anemone rupicola</i>	Dhurum.	3-10	
	19467	<i>Carduus</i> sp.	"	"	
	19750	<i>Prin. macrophylla</i>	Gontarika	"	X
	19785	- <i>sapphirina</i>	Dhurum.	"	X
	19791	- <i>glabra</i>	"	"	X
	19792	^{Trochilus} <i>Ranunculus</i> sp.	Jin la.	"	
	19793	<i>Mec. bella</i>	Naudata	"	X
	19794	<i>Polygonum</i> sp. 2" spikes	Jin la.	"	X
= 19441	19795	?	Naudata	"	X
	19796	<i>Prin. peruviana</i>	Jintang	"	
	19797	<i>Crematodium</i> yellow.	Naudata	"	
	19798	<i>Pedicularis</i> sp.	Jin la.	"	
	19801	<i>Swerthia</i> aff. <i>hochreana</i>	Naudata	"	
	19802(2)	<i>Mec. simplicifolia</i>	Dhurum.	"	
	19803	<i>Cruiser</i> white - 1937 one	Jin la.	"	X
	- 804	<i>Prin. parviflora</i>	"	"	X
	- - 6 (=)	<i>Mec. horridula</i>	"	"	Gardum X
	- 7	<i>Polygonum</i> sp. 4" basal.	Dhurum.	"	X
= 19464	- 8	<i>Prin. sikk. Hopeana</i> red tube	Gontarika	"	X
	- 9	<i>Fumaria</i> sp. bright yellow.	Naudata	"	X
	- 10	<i>Mec. sinuata</i>	Jin la + Durum	"	
= 16916 infl.	11	<i>P. sikk. sect. small.</i>	Jin la	4/10	Quote Ludlow No. : Ludlow taken by Danang. 2/7
	12	- - - - -	"	4/10	probably same, taken lower.
	19471	<i>Iris</i> sp. blue + for yellow.	Pambungrang.	4/10	
	19151	<i>Fumaria</i> or <i>Corydalis</i> . <i>decapurina</i>	Dhurum.	5/10	
	19280	<i>Streptopus simplex</i>	"	"	
	19484	<i>Ceranium</i> sp. big flower.	"	"	

	19488	Mec. bella	Dhur Chu.	5/10	
	19494	Polygonum sp. big florn.	-	-	
	19497	Yellow orchid	-	-	<u>See these seed before send, loose</u>
	19817	Oenothera sp.	-	-	v. few.
	19814	Androsace sp. cushion	-	-	<u>Androsace</u> ✓
	18974	Androsace sp. 12"-18"	Pangrang.	30/9.	
	19800	Androsace sp. white cushion.	Naudating	3/10.	
	19083	Colostemon sp. 15' tree.	Shabietang	6/10.	
	19815	Thalictrum chelidoni?	"	6/10.	
(2)	19498	Nitobolium macrophyllum.	Dhur Chu.	6/10	145
(2)	21819	Tree ?	Shabietang	7/10	
(2)	21820	Shrub ?	-	-	
(3)	21821 - 19077.	Tree 20' ?	-	-	
2	21822	Eremurus	-	-	
	19815	Thalictrum chelidoni?	Dhur Chu	5/10.	150
1 bag	19716	Almondia sp.			
	18683	Rhod ciliatum	Kyikyji la.	13/10.	
	19544	Thalictrum chelidoni	-	-	
	19594	Pyrola sp.	Yubo la	4/10.	
	19823	? saccate tube. Creeper.	Tongsa.	15/10	155
(2)	19826	Codonopsis purpurea.	-	-	
	19827	Clematis sp. small red	-	-	
	19574	Prim. flagellaris.	Chendeki.	16/10.	
	19572	Gesneraceae. Siphocampylus?	-	-	
(2)	19580	Dicentra sp.	-	-	160
4 + 5 bag	19490	Lilium sp. var.	Dhur Chu.	5/10	
	19573	Anemone sp.	Chendeki	17/10.	
	19577	Campanula sp.	-	-	

	19579	??	Chendesi	17/10	
165	19581	Morina. fine	"	"	
165+	19831	Lilium nepalense	"	"	
	19832	Prim. umbellata var. alba.	Tutatsa	17.10.	
	19833	Lycium Wardii.	Thampeta	"	
	19834	Pedicularis sp.	Tutatsa	"	
170	19835	Primula barnebyi var. alba.	Buntatsa	"	
	19836	" multiflora	"	"	
	19837	Ceanothus tubiflora.	Thampeta	"	
	19838	Codonopsis sp. (red)	"	"	
	19839	" " white	Orilatsa	"	
175	19840	Mec. villosa	Busa	"	
	19841	Geranium sp. large flower.	Namthang	"	
	19544.	Thalictrum chelidonium	"	"	
	19582	Stis?	Ritang.	18/10	many colored.
	19075	Philadelphus sp.	Chendesi.	17.10.49	
180	19518	Astilbe sp pink.	Tsalinape	21.10.	
	19544	Thalictrum chelidonium	Hainlata	"	
(A)	19590	Clematis small red.	"	"	
(2)	19573	Anemone sp (japonica)	Tsalinape.	22.10.	
(2)	19535	Clematis sp. big flowered.	Kyikyji La	13.10.	
185	19266.	Polygonia sp? yellow. On the trunk.	Ritang.	17.10.	
	19588	Morina fine.	Belaha Paro.	23.10	
	19620	Codonopsis sp var.	" "	"	
	19629	? Total white like Astilbe.	" "	"	
	19620	Codonopsis sp var.	Ha.	25.10.49	
190	19626	Sedum sp. pink.	Chelai La	24.10.	

19776	<i>Lloydia yellow?</i>	Marlung.	27. 9	
19698	<i>Cimelidactylis</i>	Paustran	8. 9	
19816	<i>Prim. capitata crispata</i>	Maruthang.	17. 10	
19853	<i>Crananthus pisatus.</i>	Chelali	24. 10.	
19854	<i>Mec. simplicifolia.</i>	Tselli la	26. 10.	<u>Maybe pink 195</u>
19855	- panic or nepal.	Tseli la	"	
19544	<i>Thalictrum chelidoni</i>	Donuthang.	30. 10.	
19620	<i>Cordanopsis spum.</i>	Hta (Habo)	"	
18640 18640	Crabapple.	Hta.	25. 10.	
19689	<i>Polygonum verrucosifolium</i>	Nathun la.	31. 10	200
19860	<i>Prim. Kingii capitata crispata</i>	Shanithang.	31. 10.	
19859	" <i>Kingii.</i>	"	1. "	
19861	" <i>capitata</i>	Nathun la	2. 11.	
(2) 19862	" <i>obliqua</i>	Changin.	"	
19863	<i>Mec. nitosa</i>	"	"	

19579

??

Chendeki

17/90

19581

Morina fine

Ritang

19581

19831

Lilium nepalense

