

C.S.

SCIENTIFIC
(Rowett Research Institute)
No. 384/24

1924.

C. S. O.	SUBJECT.
----------	----------

192 4

29th May

Previous Paper.

ROWETT RESEARCH INSTITUTE

Respecting forwarding of bones
for examination.

5/12/24

~~G.A. 31 Dec 1924~~

~~PA 14/1/25~~

~~PA 4/4/25~~

~~PA 13/10/25~~

MINUTES.

*Extract from Letter from Rowett Research Institute
of 25th March 1924 — Encl ①*

*Y.S. Submitted
This should be brought up in September?*

30 May 24

*H.C.S.
It is desirable that arrangements should
be made, far in advance, for collection of specimens
in October & that instructions should be prepared
to be ready for issue say in August. Perhaps
Mr. Munro would be so good as to advise
what should be done.*

30 May 1924

Subsequent Paper.

*Mr. Munro
Accordingly for purpose of advice
please*

31 May 24

Hon. Col. Secretary

I will prepare directions
as required immediately after
I return from Queensland.

H. H. H.
4-6-24

Hon. Colonial Secretary

Draft of proposed directions
& sample labels herewith.

H. H. H.
8-7-24

Encl. 2.

Y^{rs}.
submitted.

I propose to write to following stations for
boxes: — Darwin, San Carlos, Port Louis N.,
Port Howard, Fox Bay ^{West} ~~Port~~, Port Stephens —
in each case the specimens to be taken from
the same paddocks as soil was sent from
Mt. Lewis considers this the best.

H. H. H. 8 July 24
2 July 24

Stock Commissioner.

Draft of letter submitted for your
approval or amendment before issue

H. H. H.
for C. 28 July 1924

Circular Letter 28th July 1924 (3)
 Enclosure containing directions (3a)
 Letter from R.E. Pole Evans of
 28th August 1924 - Encl (4)

Letter (4) will be dealt with in the present part of the Report of the Commission.

The manager F.I.C. has promised to remind the farm manager to send in the bones.

H.H.H. 5 Oct. 24

Letter from Mr R. B. Pole Evans of
 28th October 1924 - Encl (4)

Chief Inspector of Stock

Replied. Mr Greenfield's is also I think sending in samples of bones.

Will you please state inform me of the stations from which samples have already been received. Are any being sent to the Analytical by the present mail?

H.H.H. 4 November 1924

The Hon

Col Sec:

I have not yet
received samples of bones from
any of the Stations

4/11/24

W. Carter
Ch Insp of Stock

Letter from F. J. Cox Manager at Darwin
of 1st November 1924 - Encl (6)

Chief Insp of Stock

Please see (5) and (6) enclosed
San Carlos North had the bones
ready to send in in October when
I was there.

W. Carter 7 Nov. 24

The Hon

Col Sec:

Samples of bones have
now been received from Darwin
& Port Howard these samples
are at present being prepared
for dispatch to Rowell Institute
No samples have been received
from any other station

W. Carter

24/12/24 Ch Insp of Stock

- Letter from Mr. R.C. Pole Evans 20 Dec 1924 (7)
- List of bone specimens received (8)
- Letter to Director Rowett Research Inst
30th Dec 1924 (9)
- Copy of Encl 8 transmitted (9a)
- " " " 6 " (9b)
- " " " 7 " (9c)
- " " " 5 " (9d)

O.I.C./C.S.O.

The samples of bones which were sent to C.S.O. This paper should be sent to Mr Carter on his return to Stanley with request that he will report which stations have not sent samples. ~~There~~ A reminder (by telegram or telephone) should also be sent to those stations which have not sent in samples.

2. As many samples as possible should be sent by March either by Magellan or Laurino. If possible they should be sent in refrigerated chamber.

M.
10 Feb 1925.

Chief Inspector of Stock
Will you please report
accordingly. G.W.H.
for C.S.
13 Feb 1925

The Hon.

Col Sec.

Up to the present I have
only received samples of bones
from Port Howard to Harwin
these samples have already
been despatched to the
Rowett Institute

R. Carter

13/2/25. Ch Insp of Stock

Telegram to operator Fox Bay, 16 Feb. 1925.
Message telephoned to Port Louis north
and San Carlos South, 16th Feb. 1925.

(10)

Chief Inspector of Stock,

Wait reply 2/2/25
tltlt

Passed to you in connection with
samples you are preparing for despatch.

M. H. 13
for C.S.
23 March 1925

The Hon

Col Sec.

Samples of bones from San Carlos South
to Fox Bay west are being despatched to the
Rowett Institute by S.S. Lantaro.

R. Carter

24/3/25 Ch Insp. of Stock

C.S.O. No. 384/24

Inside Minute Paper.

Sheet No. 24

Letter to Powell Research Institute, 24/3/25 (12)
Letter from Powell Research Institute of
12th February 1925 - Encl (12)

Y.B.
' Submitted for information,
G.H. 28
O.C.S. Sec
10 May 1925

O.C.S.O.

Chief Inspector of Stock to see.

M.

1 May 1925

Chief Inspector of Stock

Accordingly

G.H. 28
O.C.S. Sec

6th May 1925

The Hon
Cal Sec.

Thank you Dear.

J.W. Carter

Ch. Insp. of Stock.

28/5/25

List of samples of sheep bones received
from Chief Inspector of Stock. (14)

Chief Inspector of Stock

The attached Encl (14) was
received with our covering minute.
It is not clear to what it refers.

With drawn
& filed in
M. 12 84/24
as Encl 61.

and whether the specimens are now being forwarded. Specimens were received from Darwin in November 1924 and forwarded to Rowell Institute. Are these the specimens now received from the same localities?

2. Have no specimens been received from Port Louis N. nos from Port Stephens?

3. Please note that, if specimens are being forwarded by next mail, they should be sent in the refrigerator chamber of the vessel.

G.H.B.
- O'Connell
4 July 1925

The Hon.
Col. Sec.

I should have forwarded you a covering minute stating that attached to 3 of the grass samples were also tags showing that the bones forwarded to the Rowell Institute in 1924 were taken from that particular locality.

Dealt with
m.M.P. 84/22

2. No specimens of bones have yet been received from Port Louis or Port Stephens.

F.W. Carter
7/7/25 Ch. Secy of Stat.

P.A.
25/1/29

1

EXTRACT from letter from Rowett Research Institute dated 25th
March, 1924. No. S/11/24.

x x x x x x x x x

Bones

In choosing bones to send us for pathological and chemical examination, will you please make certain that corresponding bones are sent. It would be suitable if the chief bone of the foreleg were sent in each case. We would need, say, three bones from each of the following cases:

- (a) lambs which have died;
- (b) healthy lambs of the same age;
- (c) sheep from areas where the animals do not thrive
- (d) healthy sheep of the same age as (c) on areas where the animals do thrive.

Accompanying the bones there should be a statement enabling us to locate on the map the areas from which the bones came, and a full statement with regard to the health, mortality, etc., of the sheep in that area, and also an account of the particular sheep from which the bone was taken.

x x x x x x x x x

It is urgently requested that for the purpose of this investigation you shall secure & forward to me for transmittal to the proper quarters bone specimens from the following classes of sheep on _____ station:—

- (1) A lamb which has died (not from one bound dead)
- (2) A healthy lamb of same age as No 1
- (3) A sheep from an area on which animals do not thrive
- (4) A healthy sheep of same age as No 3 from an area where animals do thrive.

The bones required in each case are those from the forearms (Radius) i.e. those between the elbow & knee joint of both fore legs.

Specimen No 1 should be secured from a lamb which died from natural causes under no circumstances from a healthy lamb killed by accident.

Lambs about a week old provide much better specimens than those quite recently born.

Immediately a specimen is secured all flesh should be carefully removed & the bones fastened together, labelled, & hung in a dry place where they will be safe from dogs &c. until they can be forwarded to me. Please do not apply

any disinfectant to the specimens -

I am forwarding herewith prepared labels for attachment to each specimen -

you will note that the breed, age, & sex of the sheep from which the specimens are taken should be inserted by you on each label -

It is also requested that a letter should be addressed to me at the same time the samples are sent containing -

- (a) All possible particulars regarding the sheep from which each sample was taken -
- (b) A full statement with regard to the usual health, mountainty, &c. of sheep running on the area from which each specimen came -
- (c) Particulars which will enable me to locate on the map the area from which each specimen came - The best method of doing this will be by either forwarding a rough plan of the station with the number of each specimen inserted at or about the locality from which it came or failing this then by mentioning place names which I can locate on the map.

you should be careful to mention the number of the specimen in each "case".

Where this is possible the best specimens should be taken from sheep running on the camp from which the soil samples were recently forwarded.

384/24.

28th July, 24.

Sir,

With reference to the recent requests for samples of grasses and soils required by the Rowett Research Institute, in connection with its investigations of the Stock Industry of the Colony, I am directed by the Governor to inform you that samples of the bones of sheep are also required for chemical and pathological examination. It is necessary that these specimens should be obtained as early as possible in the lambing season next spring, and that they should be received in Stanley for transmission to the Institute not later than the last week in October.

2. Directions for the collection of the specimens and for furnishing the particulars required concerning them are contained in the accompanying enclosure, and it is important, in the interests of the enquiry which is being made, that these should be followed in every detail. As indicated, the samples should be forwarded to the Chief Inspector of Stock and the particulars required regarding them addressed to this office.

- The Manager Falkland Islands Co. ✓
- " " San Carlos South. ✓
- " " Port Louis North.
- " " Port Howard. ✓
- " " Fox Bay West. ✓
- " " Port Stephens.

I am,
Sir,
Your obedient servant,
G. R. L. Brown,
for Colonial Secretary.

3a

- Darwin
- San Carlos South
- Port Louis North
- Port Howard
- Fox Bay West
- Port Stephens.

Station.

Samples of the bones of sheep are required from the following classes of sheep on Darwin Station.

- San Carlos South
- Port Louis North
- Port Howard
- Fox Bay West
- Port Stephens.

- No. 1. From a lamb which has died (not from one born dead)
- No. 2. From a healthy lamb of same age as No. 1.
- No. 3. From a sheep from an area on which animals do not thrive.
- No. 4. From a healthy sheep of same age as No. 3 from an area on which animals do thrive.

The bones required in each case are those from the forearms (radius) i.e., those between the elbow and knee joint of both forelegs.

Directions for the collection of the specimens.

Specimen No. 1 should be secured from a lamb which died from natural causes and under no circumstances, from a healthy lamb killed by accident.

Lambs about a week old provide much better specimens than those quite recently born.

Where possible the bone specimens should be taken from sheep running on the camp from which the soil specimens recently forwarded were obtained.

Immediately a specimen is secured all flesh should be carefully removed and the bones fastened together, labelled and hung in a dry place, where they will be safe from dogs, &c., until they can be forwarded.

It is important that no disinfectant should be applied to the specimens.

Prepared labels are enclosed for attaching to each specimen. The breed, age and sex of the sheep from which the specimen was taken should be inserted by you on each label.

The specimens should be addressed to the Chief Inspector of Stock.

Description of specimens.

It is important that letters should be addressed to the Colonial Secretary at the same time as the samples are sent, containing

- (a) All possible particulars regarding the sheep from which each sample was taken.
- (b) A full statement with regard to the usual health, mortality, &c., of sheep running on the area from which each specimen came.
- (c) Particulars which will enable the area from which each specimen came to be easily located on the map. The best method of doing this will be by either forwarding a rough plan of the station with the number of each specimen inserted at or about the locality from which it came or, failing this, by mentioning place names which can be located on the map.

Care should be taken to mention the number of the specimen in each case.

(4)

Port Howard

West Falkland Islands

Aug. 25.1924

To

The Honourable H.Henniker-Heaton

Colonial Secretary

Port Stanley

Sir,

I have the honour to acknowledge the receipt of your letter No.384/24 of July 28th. relative to bones from sheep and lambs.

I beg to inform you that our lambing does not commence before the 18th. of October, and therefore I regret to say that it will be practically impossible to obtain and send in lamb bones before the beginning of November.

I shall be glad to know if this will be considered too late, as I should very much like to send samples from this Station.

I have the Honour to be

Sir,

Your Obedient Servant

W. B. Evans

5

PORT HOWARD

WEST FAIKLAND ISLANDS

Oct. 28. 1924

To

The Honourable H. Henniker-Heaton
Colonial Secretary
Port Stanley.

Sir,

With reference to yours of July 28th. re bones from sheep, I am sending in this time to the Chief Inspector of Stock, two samples from ewes.

No. 3 is from unhealthy camp inland, Mt. Edgeworth, the same place as No. 3 sample of soil mentioned in mine of June 20th.

No. 4 is from healthy camp inland, our Stud Flock, the same camp that No. 2 sample of soil was got from.

Samples of bones from lambs will be sent later, as our ewes have now been lambing only just over a week.

I have the Honour to be

Sir,

Your Obedient Servant

W. B. Pollock

The Falkland Islands Company, Limited.

(INCORPORATED BY ROYAL CHARTER 1851.)

REGISTERED 1902.

Darwin Harbour.

6

The Colonial Secretary
Stanley

November 1st 1924

Sir,

I have sent to the Chief Inspector of Stock, Stanley, four specimens of bones as per your letter of 28 July 1924. I enclose a sketch with the approximate positions where the specimens were obtained.

no I is from a lamb that died aged about 1 week.

" II A strong healthy lamb that was killed aged about 1 week.

" III A Romney ewe aged 3 years that had died in rather poor condition.

The ground from which these three specimens were taken, is to all appearances good land, well grassed with sheltered valleys & good water, but stock do not thrive very well there at any time although the mortality there is not in excess of the general average of the Coy's comp.

The lambing percentages there are generally lower than on the other ewe grounds.

no IV A Romney ewe, 3 years old that died on its back. Fat and strong.

The ground from which this is taken is very good, dry camp with well watered valleys & with good shelter from the wind. All stock do well on this piece of ground & the lambing percentages are generally in excess of any other part of the Coy's property.

I remain Sir

Yours faithfully J.G. Staughton

Port Howard
West Falkland Islands
Decr 20th 1924

To

The Honourable A. Henniker-Heaton
Colonial Secretary

Sir

Further to my letter of Octr 28th re bones
from sheep. I am sending in now to the Chief Inspector
of Stock, two samples from lambs.

No. 1 from healthy lamb

No. 2 from dead lamb.

Both samples come from healthy ground
inland - our Stud Flock.

Regretting I have been unable to
send these in sooner.

I have the honour to be

Sir,

Your obedient servant

R. B. Evans

Enclosed are the specimens of bones required by
The Rowett Institute.

From Port Howard

- Specimen no 1 Bones from healthy ewe Lamb Crossbred Age unknown
do no 2 Bones from dead ram Lamb Crossbred age unknown
do no 3 Bones from Cast-ewe from poor ground. Romney. Age 4 years
do no 4 Bones from Breeding ewe from healthy ground. Romney. Age 4 years

From Darwin Harbour

- Specimen no 1 Bones from unhealthy, dead lamb from poor camp Age 1 week
do no 2 Bones from healthy lamb from poor ground Age unknown
do no 3 Bones from Ewe from poor ground on which sheep do
not thrive Romney Age 3 years.
do no 4 Bones from healthy ewe from good ground 3 years.

Thos Carter
Ch Insp of Stock.

29/12/20

384/24.

30th December,

24.

Sir,

With reference to your letter, No. S/11/24 of the 25th of March, I am directed by the Governor to inform you that a parcel containing specimens of sheep bones, as detailed on the accompanying list prepared by the Chief Inspector of Stock, is being forwarded to you by the present opportunity. It is regretted that these are the only specimens which have been submitted for analysis, but if others should later be received, these will be sent to you in due course.

2. Copies of the letters addressed to me by the farm managers when forwarding the specimens are enclosed herewith.

I am,

Sir,

Your obedient servant,

H. Henniker-Heaton,

Colonial Secretary.

The Director,

The Rowett Research Institute,

Aberdeen,

N. B.

9a

List of Samples of bones of sheep received
from Port Howard, West Falkland and Darwin,
East Falkland.

From Port Howard.

- | | |
|----------------|--|
| Specimen No. 1 | Bones from healthy ewe lamb Crossbred
Age unknown. |
| " " 2 | Bones from dead ram lamb Cross bred
Age unknown. |
| " " 3 | Bones from Cast ewe from poor ground.
Romney. Age 4 years. |
| " " 4 | Bones from breeding ewe from healthy
ground. Romney. Age 4 years. |

From Darwin.

- | | |
|-----------------|---|
| Specimen No. 1. | Bones from unhealthy dead lamb from poor
camp. Age 1 week. |
| " " 2. | Bones from healthy lamb from poor ground.
Age unknown. |
| " " 3. | Bones from ewe from poor ground on which
sheep do not thrive. Romney. Age 3 years. |
| " " 4. | Bones from healthy ewe from good ground.
Age 3 years. |

R. W. Carter,

Chief Inspector
of Stock.

29th December, 1924.

Letter from Mr. T. G. Slaughter, Camp Manager
for the Falkland Islands Company, Limited.

Darwin Harbour,
East Falkland,

1st November, 1924.

The Colonial Secretary,
Stanley.

Sir,

I have sent to the Chief Inspector of Stock, Stanley, four specimens of bones as per your letter of 28th July, 1924. I enclose a sketch with the approximate positions where the specimens were obtained. No. 1 is from a lamb that died aged about 1 week.

" 2 A strong healthy lamb that was killed aged about 1 week.

" 3 A Romney ewe aged 3 years that had died in rather poor condition.

The ground from which these specimens were taken is to all appearances good land, well grassed with sheltered valleys and good water, but stock do not thrive very well there at any time although mortality there is not in excess of the general average of the Company's camp.

The lambing percentages there are generally lower than on the other ewe grounds.

No. 4 A Romney ewe, 3 years old that dies on its back; fat and strong.

The ground from which this is taken is very good dry camp with well watered valleys and with good shelter from the wind. All stock do well on this piece of

ground/

ground and the lambing percentages are generally in excess of any other part of the Company's property.


I remain,

Sir,

Yours faithfully,

T. G. Slaughter.

Note: A small map of the Colony is attached to assist in locating the districts indicated on Mr. Slaughter's sketch.



Enclosure to Colonial Secretary's Letter No. 384/24
of 30th December, 1924.

9c

Letter from Mr. R. C. Pole Evans, Port Howard,
West Falkland Island.

Port Howard,
West Falkland,

The Honourable H. Henniker-Heaton,
Colonial Secretary.

Dec. 20th 1924.

Sir,

Further to my letter of Oct. 28th re bones from
sheep, I am sending in now to the Chief Inspector of
Stock, two samples from lambs.

No. 1 from healthy lamb.

No. 2 from dead lamb.

Both samples come from healthy ground inland -
our stud flock.

Regretting I have been unable to send these in
sooner.

I have the honour to be,

Sir,

Your obedient servant,

R. C. Pole Evans.

9d

Letter from Mr. R. C. Pole Evans, Port Howard,
West Falkland Island.

Port Howard,

West Falkland Island,

28th October, 1924.

The Honourable H. Henniker-Heaton,
Colonial Secretary,
Port Stanley.

Sir,

With reference to yours of July 28th re bones
from sheep, I am sending in this time to the Chief
Inspector of Stock, two samples from ewes.

No. 3 is from unhealthy camp inland, Mt. Edgeworth, the
same place as No. 3 sample soil mentioned in mine of
June 20th.

No. 4 is from healthy camp inland, our Stud Flock, the
same camp that No. 2 of soil was got from.

Samples of bones from lambs will be sent later, as
our ewes have now been lambing only just over a week.

I have the honour to be,

Sir,

Your obedient servant,

R. C. Pole Evans.

Note: No. 3 sample of soil mentioned by Mr. Evans
is that referred to as Sample No. 36 in
enclosure to Colonial Secretary's Letter of
23rd September.

No. 2 sample of soil is that referred to as
Sample No. 35 in same enclosure.

TELEGRAM.

(10)

From : The Colonial Secretary*To :* The Wireless Operator, Fox Bay, West Falkland.*Dispatched :* 16th February192⁵. *Time.* 2 pm*Received :*192 *Time.*

... ..

OPERATOR

FOXBAY

FOLLOWING FOR FOX BAY WEST AND PORT STEPHENS
 MESSAGE BEGINS WITH REFERENCE TO MY LETTER OF
 28TH JULY WHEN MAY SAMPLE BONES BE EXPECTED
 MESSAGE ENDS.

SECRETARY.

Samples of bones from San Carlo 3.

no 1 - Bones from healthy lamb
Breed - Romney marsh.
Age - 7 days.
Sex - Ewe

no 2 - Bones from lamb (dead.)
Breed - Romney marsh
Age - 8 to 10 days
Sex - Ram

no 4 - Bones from sheep from healthy land.
Breed - Romney marsh
Age - 5 years
Sex - Ewe

No specimen has been received of bones of sheep no 3. - Sheep from poor land.

Samples of bones from Fox Bay West.

No 1 Bones from Lamb (Healthy Land.)
Breed - Romney Cross
Age - 6 days
Sex - Ram

No 2 Bones from dead Lamb
Breed - Romney Cross
Age - 4 days
Sex - Ewe

No 3 Bones from sheep (poor Land.)
Breed - Romney Cross
Age - 4 years
Sex - Ewe

No 4 Bones from sheep (Healthy Land.)
Breed - Romney Cross.
Age - 3 years
Sex - from wether.

12

384/24.

24th March,

25

Sir,

With reference to my letter No. 384/24 of the 30th December, 1924, I am directed by the Governor to attach a list of further specimens of the bones of sheep which are being despatched to you by the s.s. "Magellan" on the 3rd of April. As a precaution against the deterioration of the samples during transit the package is being sent in the refrigerator chamber of the vessel.

I am,

Sir,

Your obedient servant,

H. Henniker-Heaton.

Colonial Secretary.

The Director,
The Rowett Research Institute,
Bucksburn,
Aberdeen, N.B.

Enclosure to Colonial Secretary's letter No. 384/24 of
the 24th March, 1925.

LIST OF SAMPLES OF BONES OF SHEEP RECEIVED
FROM FOX BAY WEST, WEST FALKLAND AND SAN
CARLOS SOUTH, EAST FALKLAND.

From Fox Bay West.

- Specimen No. 1. Bones from lamb (healthy land).
Breed - Romney Cross.
Age - 6 days.
Sex - Ram.
- Specimen No. 2. Bones from dead lamb.
Breed - Romney Cross.
Age - 4 days.
Sex - Ewe.
- Specimen No. 3. Bones from sheep (poor land).
Breed - Romney Cross.
Age - 4 years.
Sex - Ewe.
- Specimen No. 4. Bones from sheep (healthy land).
Breed - Romney Cross.
Age - 3 years.
Sex - Wether.

From San Carlos South.

- Specimen No. 1. Bones from healthy lamb.
Breed - Romney Marsh.
Age - 7 days.
Sex - Ewe.
- Specimen No. 2. Bones from lamb (dead).
Breed - Romney Marsh.
Age - 8 to 10 days.
Sex - Ram.

From San Carlos South (Contd.)

Specimen No. 4. Bones from sheep from healthy land.

Breed - Romney Marsh.

Age - 5 years.

Sex - Ewe.

No Specimen has been received of bones of sheep No. 3.
Sheep from poor land.

University of Aberdeen and The North of Scotland College of Agriculture.

(JOINT COMMITTEE ON RESEARCH IN ANIMAL NUTRITION.)

13

The Rowett Research Institute,

BUCKSBURN, ABERDEEN.

12th February, 1925.

Director:

JOHN BOYD ORR,
D.S.O., M.C., M.A., M.D., D.Sc.

Secretary and Treasurer:

D. B. GUNN,
M.B.E., M.A., LL.B.

Ref. R/9/25.



H. Henniker Heaton, Esq.,
Colonial Secretary,
Colonial Secretary's Office,
Stanley,
FALKLAND ISLANDS.

Sir,

I have to-day received your letter of 30th December last and parcel containing specimens of sheep bones. The bones will be examined histologically and chemically at once.

The meeting at the Falkland Island Co. is arranged for February 17th. Mr. Munro, with whom we have already discussed the problem of the Falkland Islands, will be present at that meeting.

We have arranged to carry out experiments on land in the Western Highlands which appears to be very similar in nature and to have a similar climate to that of the Falkland Islands. We hope that we will be able to report the results of those tests in the autumn.

If Mr. Munro and the Directors of the Falkland Island Co. consider that practical tests could be carried out on the Falkland Islands, we will send out the necessary material from here. At the last interview with Mr. Munro, however, he was of opinion that tests should be carried out

From The Rowett Research Institute.

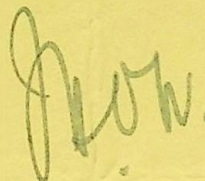
Continuation Sheet No.2.

in this country under our supervision
before tests were tried in the Falkland
Islands.

I will report further after the
meeting on 17th February curt.

I am, Sir,

Your obedient Servant,

A handwritten signature in green ink, appearing to be 'J. W. N.', written in a cursive style.

Director.