

Crown Pastoral Land Tenure Review

Lease name : OTEMATATA STATION I

Lease number : PO 304

Due Diligence Report (including Status Report) - Part 4

This report and attachments results from a pre-Tenure Review assessment of the pastoral lease for the purpose of confirming land available for Tenure Review and any issues, rights or obligations attaching to it. The information is gathered from files and other sources available to the LINZ contractor.

Part of the information relates to research on the status of the land, resulting in a Status Report that is signed off by a LINZ approving officer. The remainder of the information is not analysed for relevancy or possible action until required, and LINZ does not guarantee its accuracy or completeness as presented.

The report attached is released under the Official Information Act 1982.

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July



COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952 Limited as to Parcels



Search Copy

IdentifierOT296/215Land Registration DistrictOtagoDate Issued24 October 1939

Prior References DI V355

EstateFee SimpleArea37.2311 hectares more or lessLegal DescriptionSection 1 Block VIII Gala Survey District

Proprietors

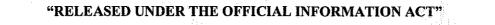
Otematata Station Limited

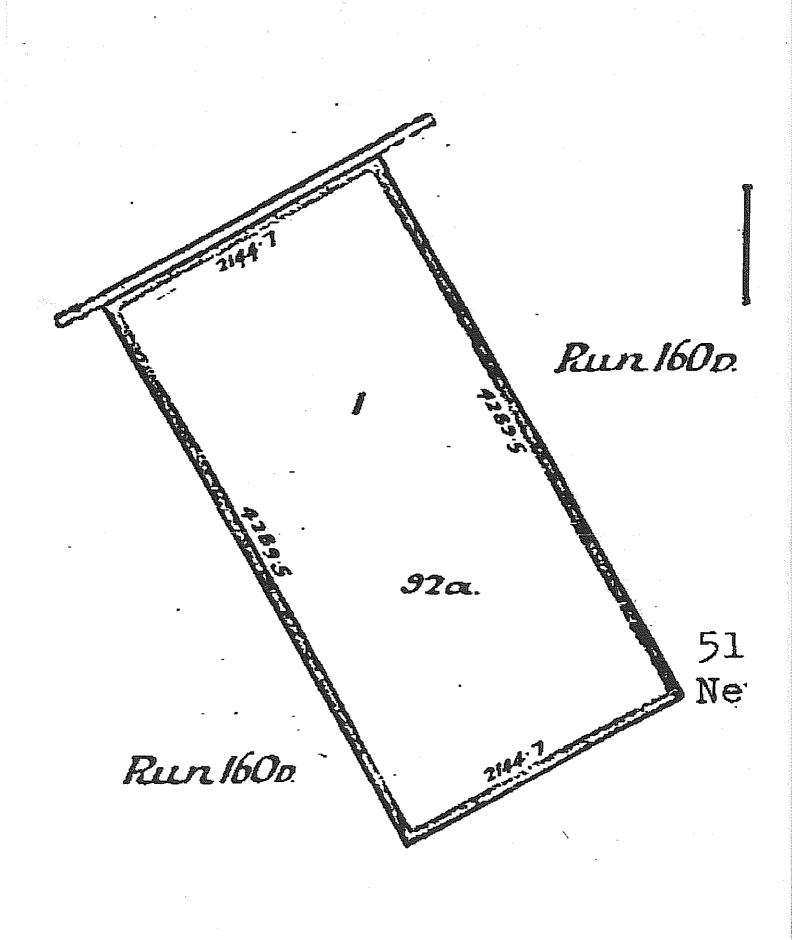
Interests

511103 Mortgage to The National Bank of New Zealand Limited - 15.2.1979 at 9.23 am

854438 Land Improvement Agreement pursuant to Section 30A Soil Conservation and Rivers Control Act 1941 - 2.5.1994 at 9.38 am

933293 Variation of Mortgage 511103 - 4.7.1996 at 9.44 am





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COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952 Limited as to Parcels

Historical Search Copy



IdentifierOT296/215Land Registration DistrictOtagoDate Issued24 October 1939

Prior References DI V355

EstateFee SimpleArea37.2311 hectares more or lessLegal DescriptionSection 1 Block VIII Gala Survey District

Original Proprietors

Otematata Station Limited

Interests

511103 Mortgage to The National Bank of New Zealand Limited - 15.2.1979 at 9.23 am 854438 Land Improvement Agreement pursuant to Section 30A Soil Conservation and Rivers Control Act 1941 -2.5.1994 at 9.38 am

933293 Variation of Mortgage 511103 - 4.7.1996 at 9.44 am

-----LAND Palan Coup Arr. -101 R.U.L (Ľ 1- OCT 1955 NEW ZEALAND. Temer 2 11-55-55 ed Transfer (Compulsory Registration of Tilles) Act, 1924. Revister-book. Refe ₹.355 Deeds Index. Val 296 , folio 215 Application No. C.12905 J CERTIFICATE OF TITLE UNDEB LAND TRANSFER ACT. LIMITED AS TO PARCELS AND THE This Certificate, dated the, Drentyjourth. day of Cotober ona the under the hand and seal of the District Land Registrar of the Land Registration District of. ОТ AGO Witnesarth that WALTER PRESSION CATERON of Valani, Canterbury, Runholder and interests as are notified by memorial under written in fea-simple (subject to such reservations, matriana es, liens, est abo to any existing right of the Grown to take and lay off roads under the provisions of any det of the General Assembly wa: mbi mais definested by the plan hereon bordered. r Zealand) in the land herrinafter described, as the sa of Ne green , be the several admensured me or less, that is to say : All that parcel of hand containing Minetytm (92) acres more or less being Section One (1) a ktth BLOCK VILL GALA SURVEY DISTRICT . 1.2.7 EQUIVALENT METRIC ici Land Registra AREA 15 37-2311 49-Critificate of Title has owned to be Sec.I BlkVIII Cala S.D. Run 160a <u>ULR</u> THIS REPRODUCTION 10N A REDUCED SCALE) CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL RECISTER FOR THE PURPOSES OF SECTION 215A LAND TRANSFER ACT 1952. Ja hackreek L.B. 97a. 511103 Mortgage to the National Bank of New Zealand/- 15.2.1979 at 9.23 аш Limited C P Run IbOa .L.R A יייים <u>Scale,10 chains to an inclu</u>

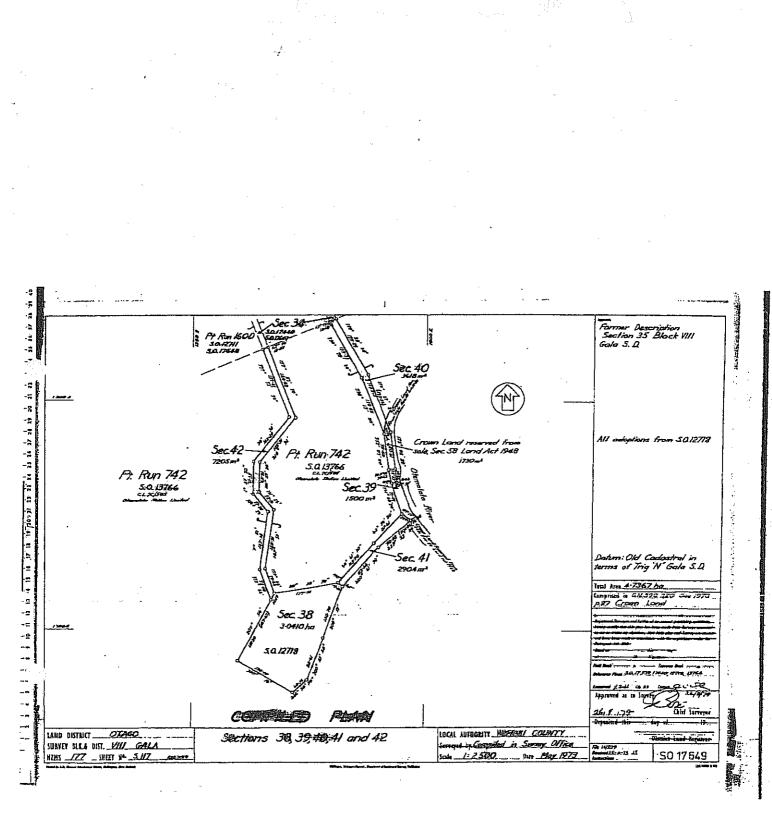
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C.T.296/215

854438 Land Improvement Agreement under Section 30A of the Soil Conservation and Rivers Control Act 1941 - 2.5.1994 at 9.38am

NBA A.L.R.

911293 Variation of Mortgage 511103 - 4.7.1996 at 9.44 am A.L.R.



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5169 RMATION /04/2002 12:47 #365 P.002/034 From: LAND INFURMATION **UNDER THE ORFICIA**

LAND IMPROVEMENT AGREEMENT APPLICATION FOR REGISTRATION

TO: The District Land Registrar Otago Registry

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aections '30, 37, 40, 41, 42, 42, 49, Block VIII Gala Survey Distr¹⁵.

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I, BRIAN BURKITT HASELL, Group Manager Corporate Policy of The Canterbury Regional Council, HEREBY CERTIFY that the within is a true duplicate of a Land Improvement Agreement affecting an estate in fee simple/of leasehold in the land described in the Schedule below SUBJECT to the encumbrances therein set out.

| SCHEDULE | | | | | | | |
|------------|---|-----------------|--|--|--|--|--|
| AREA (ha) | LOT AND DEPOSITED PLAN (or other sufficient description where land not described in terms of complete lots on a deposited plan) | ENCUMBRANCES | TITLE REFERENCE (and lease or licence number where applicable) | | | | |
| | | | REGISTER/FOLIO | | | | |
| FEE SIMPLE | | ŕ | <i>i</i> ² | | | | |
| 37.2311 | Section 1 Block VIII Gala SD | Mortgage 511103 | 296/215 | | | | |
| LEASEHOLD | | • | | | | | |
| 12780.1128 | Run 742 Gala and | Mortgage 511103 | 2C/585 | | | | |
| 12787.3814 | Turnagain SD ** Run 743, Gala and Turnagain SD | Morrgage 511103 | Lease P.304 2C/586 Lease P.305 | | | | |

of which OTEMATATA STATION LIMITED, a duly incorporated company having its registered office at Dunedin is registered as proprietor AND I HEREBY APPLY to have the said Agreement registered against the said land pursuant to Section 30A of the Soil Conservation and Rivers Control Act 1941. I FURTHER CERTIFY that the Agreement is one that may be registered against the land under Section 30A of the Soil Conservation and Rivers Control Act 1941.

DATED at Christchurch this Ath day of form

1994.

Group Manager Corporate Policy of The Canterbury Regional Council

From: LAND INFORMATASKED UNDER THE OFFICING INDORMATIONBACAF2002 12:47 #365 P.003/034

CANTERBURY REGIONAL COUNCIL

LAND IMPROVEMENT AGREEMENT

(under Sections 30(3) and 30A of the Soil Conservation and Rivers Control Act 1941)

AGREEMENT made the "if day of Falson 1974, BETWEEN THE CANTERBURY REGIONAL COUNCIL, duly constituted under the Local Government Act 1974 (hereinafter called "the Council") of the one part AND OTEMATATA STATION LIMITED a duly incorporated Company having its registered office at Oamaru (hereinafter called "the Landholder") of the other part

WHEREAS

- 1. THE Landholder is the owner/lessee of the land described in paragraph four of the Rabbit and Land Management Property Plan attached hereto (hereinafter called "the land" and "the Plan" respectively).
- 2. <u>THE</u> Landholder and the Council have agreed that certain works and land management practices should be carried out on the land for the purpose of eradicating or controlling rabbits and for the conservation and protection of the soil on the land.
- 3. THE Council has agreed to make certain grants to the Landholder in respect of such works and land management practices.

NOW THEREFORE in consideration of the premises the parties hereto HEREBY AGREE AND DECLARE as follows:

- <u>1. THE</u> term of this agreement shall be twenty (20) years commencing on the 1st day of April 1990.
- 2. THIS agreement shall be read with and shall incorporate the Plan and all works terms and conditions referred to in this agreement shall be those described in the Plan.
- 3. THE parties hereto will during the period from the 1st day of April 1990 until the 30th day of June 1995 carry out the works terms and conditions of the Plan in accordance with the Plan and the programme therein set forth and the Landholder will so manage

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the land as to enable such works terms and conditions to be carried out during such period.

- 4. <u>SHOULD</u> any of the works described in the plan and intended to attract a grant not be completed by the 30th day of June 1995 then in the absence of express written agreement of the parties to the contrary the respective obligations of the parties to carry out such work and to pay a grant in respect of such work shall cease at that date.
- 5. THE Council shall set up and operate and control an internal ledger account within the administration and accounting operations of the Council (hereinafter called "the property account") in which all payments between the parties in respect of the works referred to in paragraph (a) of Clause 6 hereof shall be recorded.
- 6. THE responsibilities of the parties to carry out the works referred to in Clause 3 hereof and terms and conditions relating to the respective works shall be as follows:
 - (a) Primary Poisoning Operation (including Followup):
 Where any such work comprises a primary poisoning operation (including followup):
 - (i) Prior to carrying out the work the Council shall supply to the Landholder a detailed written estimate of the cost of the work and the Council shall also supply to the Landholder such other information as the Council shall deem appropriate to demonstrate to the Landholder that such estimate is reasonable.
 - (ii) Unless there shall then exist in the property account a credit balance of an amount at least equal to one half of the Landholder's share of the estimated cost of the work the Council may by written notice given to the Landholder immediately prior to the carrying out of the work require that the Landholder pay to the Council as a contribution to the cost of the work one half of the Landholder's share of the estimated cost of the work the amount of such contribution to be reduced by the amount of any credit balance then existing in the property account. The Landholder shall forthwith pay to the Council the amount so required by the Council and the Council shall credit to the property account the amount so paid by the Landholder.

- (iii) The Council shall cause the work to be carried out at its own cost and expense and upon the due completion thereof the Council shall debit to the property account the Landholder's share of the cost of the work.
- (iv) Upon the due completion of the work in accordance with the Plan the Council shall supply to the Landholder a statement of the transactions in the property account and the balance of the property account shall be dealt with in the following manner:
 - (1) if it is a debit balance

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such balance shall be payable by the Landholder to the Councilnot later than the 20th day of the month following the date of the statement of transactions and upon such payment being made to it the Council shall credit such payment to the property account.

(2) if it is a credit balance and to the extent that it shall be attributable to a payment by the Landholder of a contribution pursuant to paragraph (a)(ii) of this Clause 6 and result from an overestimation by the Council of the cost of the work

such balance shall be payable forthwith by the Council to the Landholder and upon such payment being made to the Landholder the Council shall debit such payment to the property account.

) if it is a credit balance but not subject to paragraph (a)(iv)(2) of this Clause 6

such balance shall be retained in the property account and shall be applied in reducing the amount of any future contribution to be made by the Landholder pursuant to paragraph (a)(ii) of this Clause 6 or in accordance with any agreement made between the Council and the Landholder in respect of any of the works referred to in paragraph (b) of this Clause 6 (and to the extent that the Landholder's share of the cost of such work does not exceed such credit balance) by the Council reimbursing the Landholder in full for the cost of carrying out such work and by debiting to the property account the Landholder's share of the

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cost of such work. Any difference between the cost of such work and the reimbursement therefor shall be subject to the provisions of paragraph (b) of this Clause 6.

(b) Secondary Pest Control or Land Management Works:

Where any such work comprises secondary pest control or land management works:

- (i) The Landholder shall carry out the work at the cost and expense of the Landholder and when the work qualifying for a grant is completed the Landholder shall notify the Council in writing accordingly.
- (ii) The Landholder shall supply to the Council such vouchers and other information relating to the completed work as the Council may require.
- Within a period of ten (10) working days following the receipt by the (iii) Council of notice of completion of the work the Council shall inspect the work to satisfy itself that the same has been completed in accordance with the Plan and within a period of ten (10) working days thereafter and subject to the Council being satisfied that the costs thereof have been incurred by the Landholder and that such are costs properly incurred in respect of the completed work the Council shall pay to the Landholder the grant in respect of the completed work.
- Should the Council not be satisfied as to some aspect of the work or the (iv) costs thereof the Council shall forthwith notify the Landholder of the further action required of the Landholder in order to satisfy the Council and upon such action being taken by the Landholder and the Landholder having notified the Council thereof the Council shall within a period of ten (10) working days thereafter pay to the Landholder the grant in respect of the completed work subject to the Council having confirmed for itself that the grant for the completed work may properly be paid.
- NOTHING shall be chargeable to the property account other than as expressly provided 1 for in this agreement.
- THE Landholder acknowledges that the balance of the property account as at the 30th 8. day of June 1991 is a credit of \$19,510.55 and the Landholder confirms such A HR. balance as true and correct.

- 9. NOTWITHSTANDING the provisions of paragraph (a) of Clause 6 hereof any debit balance which may exist in the property account as at the 30th day of June 1991 shall be payable by the Landholder to the Council in two equal instalments on the 30th day of June 1992 and the 30th day of June 1993 and the payments thereof by the Landholder shall be credited to the property account.
- 10. NOTWITHSTANDING the provisions of paragraph (a) of Clause 6 hereof the Council may upon application made by the Landholder agree to defer payment by the Landholder in respect of any debit balance existing in the property account on the grounds that the making of any such payment would cause undue hardship to the Landholder and any such agreement by the Council may be given on such conditions as to alternative payment terms and other matters as the Council may deem appropriate.
- 11. DURING the term of this agreement the Landholder shall not without the prior written consent of the Council cut down remove mutilate damage or destroy any trees planted as part of the works referred to in the Plan and the Landholder shall use all reasonable means to preserve and protect such trees so planted PROVIDED THAT the trimming of lateral branches may be carried out without consent.
- 12. THE Landholder shall at all times during the term hereof keep and maintain the works referred to in the Plan at the Landholder's own cost and expense unless the Council and the Landholder agree in writing that it is unreasonable to do so.

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- 13. THE Council by its members employees agents servants and contractors and their respective assistants may with the prior permission of the Landholder (such permission not to be unreasonably withheld) enter onto the land for the purpose of inspecting the land or any of the works or measures referred to in the Plan or to monitor pest populations or the condition of the land and in connection with such monitoring to take all samples of the soil and vegetation and pests that the Council may require and such persons may bring with them onto the land all vehicles machinery implements and things as the Council may deem necessary for such purposes AND IT IS HEREBY FURTHER AGREED THAT the foregoing provisions shall also apply to officers of the Ministry of Agriculture and Fisheries on official duties for the purposes of inspection and monitoring as aforesaid. For the purpose of facilitating if necessary the power of entry given to officers of the Ministry of Agriculture and Fisheries those officers shall be deemed to be agents of the Council.
- 14. THE Landholder shall when required by the Council supply to the Council all information and data necessary to assist the Council in its monitoring of pest

populations and the condition of the land to enable the Council to evaluate the effectiveness of the Plan.

IF at any time during the term hereof the Landholder shall fail to carry out faithfully the 15. provisions of the Plan or to observe perform and fulfil the provisions of this agreement and such failure shall continue for a period of fourteen (14) days after written notice has been posted by the Council to the Landholder requiring the Landholder to remedy any such failure then the Landholder shall upon demand made by the Council pay to the Council in full all grants provided by the Council in respect of the works carried out under this agreement or such lesser amount as the Council may determine having regard to the nature and effect of the breach together with any amount debited to the property account and which at the time of such demand has not have been paid by the Landholder to the Council. Should the Landholder be dissatisfied with either the Council's determination that there has been a breach of this agreement by the Landholder or the amount demanded by the Council then the Landholder may within fourteen (14) days of receiving from the Council notice of the breach or demand for payment by written notice to the Council refer the matter for determination by arbitration. Should the Landholder fail to make such payment the Council may take such action to recover any grants made as it shall consider necessary.

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16. THE Plan and this agreement may be modified only by agreement in writing between the parties.

THE Landholder acknowledges that the grants provided for in the Plan in each year 17. during the period referred to in Clause 3 hereof are to be funded in part by general rates to be levied by the Council on all rateable property in the Canterbury Region and as to the remainder by contributions to be paid to the Council by the Crown pursuant to an agreement dated the 12th day of June 1991 out of moneys appropriated by Parliament for the purpose and IT IS HEREBY AGREED AND DECLARED that if in any year during the period referred to in Clause 3 hereof the Crown should fail to make to the Council full payment of the contribution by the Crown in respect of such grants and should the Council not be willing to make up the deficiency in the contribution of the Crown then the Council shall forthwith give to the Landholder notice thereof in writing and as soon as practicable thereafter the Council and the Landholder shall review the Plan and the funding of the works and measures therein contained. In the absence of agreement between the Council and the Landholder as 10 any modification of the Plan and the funding of the uncompleted works and measures the respective obligations of the parties hereunder to carry out the uncompleted works and measures described in the Plan and to provide grants in respect of such works and measures shall cease. Any

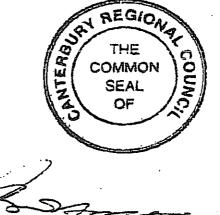
such cessation shall not be construed as modifying any other provision of this agreement.

18. ALL disputes and differences between the parties shall be submitted to the arbitration of a single arbitrator if one can be agreed upon or to two arbitrators (one appointed by each party) and their umpire (appointed by the arbitrators prior to their arbitration) such arbitration to be carried out in accordance with the provisions of the Arbitration Act 1908 or any then statutory provisions relating to arbitration. This clause shall not relate to the funding of the works or funding of the measures provided for in the Plan.

THE Landholder covenants with the Council that this agreement binds the Landholder 19. and successors in title to the land. The Landholder covenants with the Council to perform and observe the terms and conditions upon which the Council makes grants in terms of this agreement and agrees that the Council may present this agreement for registration against the relevant land transfer documents relating to the land in the Land Registry to which the documents relate.

IN WITNESS WHEREOF these presents have been executed the day and year first hereinbefore written.

THE COMMON SEAL ofTHE CANTERBURY REGIONAL COUNCIL was hereto affixed in the presence of:



GROUP MANAGER, CORPORATE POLICY

THE COMMON SEAL of OTEMATATA STATION LIMITED was hereto affixed in the presence of:

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(Hararara) Smil Director. Uchellar

From:LAND INFORMATAGEDIUMDER THE OFFICIAL INFORMATIONSACE 2002 12:51 #365 P.010/034

CANTERBURY REGIONAL COUNCIL RABBIT AND LAND MANAGEMENT PROPERTY PLAN OTEMATATA STATION

Mr H Cameron Otematata Station Otematata

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W. James W. C.

CANTERBURY REGIONAL COUNCIL

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RABBIT AND LAND MANAGEMENT PROPERTY PLAN

PROPERTY NAME: OTEMATATA ADDRESS: Mr Hugh Cameron Otematata.Station OTEMATATA

SUMMARY

This Rabbit and Land Management Programme for Otematata involves a five year programme of Pest Control and Land Management works which will work towards achieving the objectives outlined. It involves:

- Primary poisoning of 12,700 ha. A further 3589 ha have been included in years 4 and 1) 5 at zero grant rate. It is hoped that manpowering efforts will make this operation unnecessary. Follow up work will be carried out as required.
- 2) 21,650 m of rabbit netting fence.

3) Land treatment on 1400ha.

| The total estimated cost of the programme is | \$481,364 |
|--|-----------|
| Farmer's share is | \$161,961 |
| MAF/CRC Share | \$319,403 |

This equates to an overall grant rate of 66%.

1. INTRODUCTION

The objective of the Rabbit and Land Management Programme is to improve the long term sustainability of the land resources in semi-arid areas where they are threatened by rabbits.

This will be achieved by the implementation of a rabbit and land management property plan. The property plan will be a cooperative plan developed between the landholder and the Canterbury Regional Council.

The overall aim of the plan is to:

- Achieve the long term protection of the land resource through wise land use and management
- Coordinate rabbit control with appropriate land management.
- Prevent avoidance of bait or toxic shy rabbit populations.
- Achieve a reduction in the long term costs of rabbit control.

2. **OBJECTIVES**

The objectives of the plan for Otematata are:

From: LAND INFURNE FICKED ANDER THE OFFICIAL INFORMATION AT 72002 12:51 #365 P.012/034

- 2.1 To lengthen the poison interval particularly on highly rabbit prone land and prevent the development of bait or toxic shy rabbit populations.
- 2.2 To improve the vegetative cover of the severely depleted rabbit prone land.
- 2.3 To reduce the spread of Hieracium.
- 2.4 Reduce the long term costs of rabbit control on Otematata.
- 3. LOCATION/ACCESS

Otematata Station is situated on the south side of SH83, 90 km from Oamaru. It lies to the west of the Otematata River and Clear Stream and runs back to the Hawkdun Range.

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Sections

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and

51 Block VIII Gala Survey District.

4. LEGAL DESCRIPTION

| Pastoral Lease CT 2C/585 Run 742 Galaa & Turnagain SD ** CT 2C/586 Run 743 Galaa & Turnagain SD | 12,780.1128 12,787.3814 |
|---|---|
| Freehold CT 296/215 Section 1 Blk 8 Gala SD CT 7C/1108 Section 43 Blk 8 Gala SD | 25,567.4942 37.2311 _ 4.6913 |
| | 41.9224 |
| Total Area | 25,609.4166 ha |

Area funded for R & LMP: 8132 ha

5. CLIMATE

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Like Aviemore Station, Otematata is subject to extremes in climate. It lies within a rain shadow both from the south and north west. Average annual rainfall is 300 mm around the homestead increasing to 1250 mm on the southern and western boundaries where a considerable proportion falls as snow.

Persistent desiccating north west winds can negate the little rain that does fall resulting in soil moisture levels being below wilting point for most of the year.

During the winter months frosts are severe.

All these factors limit the growing season and pose a real problem in introducing grasses and clovers to the native sward.

6. TOPOGRAPHY

The property is characterised by its large tracts of easy country dissected by rivers and streams. Where this occurs steep faces descend into the streams. 50% of the property lies above 1000 m and generally this is of easier topography than that below 1000 m. Altitude varies from 270 m at Lake Aviemore to 1849 m on the Hawkdun Range.

7. VEGETATION

Vegetation below 900 m on the sunny faces is a sparse sward of fescue and blue tussock, native grasses and scabweed. On shady faces the vegetation is more vigorous but *Hieracium* pilosella is encroaching into the sward and having a detrimental effect on the short tussock

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vigour. Above 900 m snowgrass is dominant. Scrub (Coprosma, matagouri, lawyer) is present in many of the steep river faces.

8. EROSION

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| | Area (ha) | % of Property |
|---|------------------------------|-------------------|
| Slight 0-10% bareground Moderate 11-20% Severe-Extreme >20% | 6140 13370 <u>6140</u> | 24% 44% 24% |
| • | 25650 | - |

9. LAND USE CAPABILITY

| Class . | Area (ha) | % of Property |
|--------------------------------|--|-----------------------------|
| III IV VI VII VIII | 330 120 7100 14960 <u>3140</u> | 1.5 .5 28 58 12 |
| | 25650 | |

10. MANAGEMENT

10.1 STOCK NUMBERS - 1991

| Stock | Actual Number | Stock Units |
|---------------------|-------------------|-------------|
| Stud Ewes | 400 | 400 |
| MAEwes | 3600 | 3600 |
| Four Tooth Ewes | 1400 - | 1400 |
| Two Tooth Ewes | 1500 | 1500 |
| MA Wethers | 3550 | 2485 |
| Two Tooth Wethers | 1300 | 1050 |
| Four Tooth Wethers | 1250 | 875 |
| * MS Hoggets | 4400 | 3080 |
| Rams | 150 | 105 |
| Others | 350 | <u>350</u> |
| | 17900 | 14845 |
| Cows | 80 | 430 |
| Heifers Rsg 2 yr | 20 | 80 |
| Heifers Rsg 3 yr | 20 | 90 |
| Rsg 2 & 3 yr Steers | 45 | 202 |
| | | |
| | <u>165</u> | 852 |
| | Total stock units | 15607 |
| | TOUL SUCK UNITS | 13027 |
| | | |

* Carried at Little Awakino

16000 sheep including 6000 ewes 450 cattle including 220 cows

10.3 STOCK PERFORMANCE

| Wool weight | 3.8 kg/sheep |
|-------------|--------------|
| Lambing | 80% - |

10.4 GRAZING PATTERNS AND MANAGEMENT

Lambs are weaned in March. The majority go to Awakino Downs but some 300 are retained in the Top Fine Ewe and Riverbed blocks. After hogget shearing (mid September) the 2th ewes go to Long Spur and Round Knobs. The 2th wethers go to Long Gully in mid October at which time the 2th ewes are run in with them until mid November. In mid November the 2th ewes go to Waterfall till mid April and the 2th wethers to the Otamatapaio Spur till mid April. Two tooth ewes are wintered on the Gorge and Front Saddle blocks; the two tooth wethers on the Long Spur; Top and Bottom Backyards Paddock. After shearing the 1500 4th wethers return to the Top Backyards Paddock until the end of November then to the Springs for December/January. The 4th ewes go to Long spur and Round Knobs then to Long Point Basin from December-mid April.

All ewes are supped on Front Gorge, Back Gorge and Back Saddle then wintered on the Round Knobs, Long Gully and Chimney blocks before being spread out for lambing on Top Fine Ewe, Front and Back Gorge, Front and Back Saddle, Gorge, Downs and Forks. After docking they are moved onto Long Gully, Chimney, 1000 Acres, and Top Long Point until weaning when they go to Turnagain then Top Long Point.

11. PROGRAMME TO ACHIEVE OBJECTIVES

11.1 **OBJECTIVE ONE**

To lengthen the poisoning interval, particularly on the highly rabbit prone land and prevent the development of bait or toxic shy rabbit populations by:

Using appropriate follow up techniques to reduce and maintain low post poison a) populations.

Otematata has had a high poisoning frequency. Problem blocks include the Forks, Front Saddle, Back Saddle, Paddocks, Gorge, Wether Range, Backyards paddocks, Downs and Charlie Free blocks. The primary strategy for lengthening the poison interval on these blocks is to follow up the primary poisons with manpower techniques. Mr Cameron has employed a man full time to carry out appropriate follow up control. He will use methods such as night shooting, day shooting, trapping, pindone To date the manpowering has been very successful with post poison poisoning. populations being reduced in many instances.

Subdivision of the highly rabbit prone land into five compartments using netted fences. b) This will enable post poison populations to be confined for follow up. The netted fences will also confine rabbit populations during poisoning and reduce the risk of, exposing of the population to 1080 poison twice in two years where poisoning is done either side of a fence in consecutive years.

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A small length of fence 600 m in the Top Fine Ewe Block will join an existing netted fence and complete the subdivision of the front country into two rabbit control compariments.

8200m of existing fence from the Otematata River up Long Gully to the Back Yards paddocks will be netted. This will separate the Front Country off.

A further 8000 m of existing fence will be netted from the Thousand Acre Block, back to this fence.

Joining this will be another netted fence 4850 m following the top of The Downs through to the Bog Roy boundary.

All netting will be onto existing fences.

Using the most effective baits and toxins and ensuring that the appropriate rates are c) applied according to the rabbit density. Oats have been the dominant bait used on Otematata. Carrot has been used in the 1990 and 1991 operations. Pindone may be used to patch poison "hot spots" in order to push out the 1080 poison intervals to over five years. All the rabbit prone land has been poisoned in 1990/91. Results with carrot have been excellent.

OBJECTIVE TWO 11.2

To improve the vegetative cover of the severely depleted rabbit prone land by:

OS & TD on the lower reaches of The Forks block (400 ha) which has a bare ground a) rating of 40%. The vegetative cover is severely depleted (mainly scabweed) but soils are relatively deep on the easier sloping land and should enable a good sward to be established. (The lower area of the Forks block (550 ha) will be subdivided from the upper area (650 ha).)

Spelling for at least two years will be necessary to enable a good vigorous sward to establish following OS & TD. Subsequent grazing will be take half leave half thus allowing organic matter to accumulate providing protection for the soil. To achieve this spelling, the 800 ewes which are lambed on The Forks will be reduced to 400 which will be lambed on the newly created Upper Forks (650 ha). The balance (400) will be lambed on the Back Gorge. This has been OS & TD last spring (1991) to lift the carrying capacity of this block to accommodate these modifications in the spring of 1993. This OS & TD on the Back Gorge will also work towards achieving objectives 2 and 3.

In the spring of 1994 the 300 ha of the Bottom Wether Range block will be OS & TD to improve the vegetative cover and prevent hieracium spread. The species and establishment technique used in treating the area will be decided on pending the results of trials Mr Cameron is carrying out.

11.3 **OBJECTIVE THREE**

To prevent the spread of Hieracium.

Both the Back Gorge (700 ha) and the Bottom Wether Range (300 ha) will be OS & TD with appropriate species. As well as reducing the spread of hieracium this reannent will also aid in reducing the bare ground component of these blocks and is thus compatible with objective 2. Mr Cameron will monitor the condition of various blocks using fixed photo points.

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11.4 OBJECTIVE FOUR

Reduce the long term cost of rabbit control.

Objectives 1, 2 and 3 will all interact to achieve this objective, but this objective can be met directly by reducing operational costs. It is proposed that this be done by:

1) Constructing a new airstrip on the Long Spur/Round Knobs Block so that flying time during poisoning operations can be reduced for certain blocks.

This year's (1992) poison operation involves 3650 ha on the Long Spur, Long Point and Waterfall Blocks with 90 tonne programmed for application. It is estimated that a saving in flying time of 8 min/trip could be made using the proposed airstrip instead of flying from the Dead Cow Saddle. This would mean a saving in flying costs for this operation of \$7200. The suip would also benefit the Aviennore operations for this year with a reduction in flying costs of approximately \$2000. Further poisoning operations would benefit significantly. The estimated cost of the new airstrip is \$7000.

2) Purchasing a ground applicator for laying oars, carrors and pellers. This will enable the Station to carry out its own ground application under the supervision of the CRC.

12. FINANCIAL SUMMARY

| | Total Cost | Farmer's Share | MAF/CRC Share |
|---|---|---|--|
| Primary Poison Follow Up Control Netting Fences Land Management Airstrip Construction | 218,377 73,384 50,803 131,800 7,000 | 101,546 22,015 0 36,300 2,100 | 116,831 51,369 50,803 95,500 4,900 |
| | \$481,364 | \$161,961 | \$319,403 |

This programme represents an input of \$32.78/su or \$5.46/su per year. Pest control is \$3.50/ su per year. In the last two years of the works programme it is estimated to be \$2.90/su/year. With a continued manpower effort and strategic poisoning it is estimated that rabbit control can be provided for \$5/su/year on Otematata Station.

Financially the Otematata and Aviemore plans will be combined to allow the over run in property R & LM funds for Aviemore, \$103,932, to be offset by the surplus R & LM funds for Otematata, \$88,310. This will result in an extra \$15,622 of R & LM money being funded by Aviemore Station over and above its local share contribution.

13. ACKNOWLEDGEMENTS

Plan Prepared by:

L C Reid, Land Management Officer CRC and

H Cameron, Runholder, Otematata Station

R Bungard, Pest Supervisor, Kurow

D V Pickens, Consultant, Landcorp, Alexandra

| | ÖB | | | NATURIT | | A 10 10 10 10 10 10 10 10 10 10 10 10 10 | MAE A GSHARE | | | | RIGINAL ARMERS II | REMAR |
|-----------------|----|---|---------------------------------------|-----------------------|---------------|--|-----------------|----------|---------------|------------|------------------------|-------------------------|
| | 0 | | | | | S | | | | | ALANCE | ALANCE |
| | | INTERMINEMELAN | | ć | | | | | | | \$0 \$0 | \$0 \$0 |
| -90 | 1 | AERIAL & GROUND LAID 1080 OATS FRONT SADDLE | 2059 HA | 11 PER HA | 22148 | 6644 | 16504 | | | | · -\$5,644 -\$6,644 | -\$15,504 -\$15,504 |
| 90 | | GORGE, TOP FINE EWE, FRONT GORGE AERIAL POISON 1080 CARROT ROUND KNOB & CHIMNEY | 2930 HA | 11 PER HA | 32835 | 9851 | 22985 | | | | -\$16,495 | -\$38,488 |
| | - | BOTTOM WETHER & BACK YARD PADDOCK | | | | | | | | | -\$16,495 -\$18,495 | -\$38,468 -\$38,468 |
| | | GROUND APPLIED OATS | | | | | | 1 1539 | | | -\$16,495 -\$4,958 | -\$36,488 -\$38,488 |
| 80 | | INTERIM PEST RATES MAF/CRC R & LM CONTRIBUTION | | | | | | | 38488 | | -\$4,958 | \$0 |
| 90 | | TOTALS FOR INTERIM PROGRAMME | | [| \$54,983 | \$16,495 | \$38,488 | \$11,539 | \$38,488 | \$0 | -\$4,958 -\$4,956 | \$0 \$0 |
| | | YYDDWT FTWANGTAU YEAN | | | | | | • | | | -\$4,956 | \$ 0 |
| | | POISONING WORK COMPLETED TO 10/06/01 TOP & BOTTOM | 3250 HA | 13 PER HA | 43325 | 12998 | 30328 | | | | -\$4,955 -\$17,959 | \$0 -\$30,326 |
| .9 1 | 8 | CHARLIE FREE BK GORGE, BK SADDLE, FORKS & LONG GULLY | · · · · · · · · · · · · · · · · · · · | | 364 | 115 | 269 | 384 | 0 | ٥ | -\$17,953 -\$17,684 | -\$\$0,328 -\$30,597 |
| 91 | 4 | FOLLOW UP FOR JOBS 1 & 2 RABBIT NETTING UPLIFTED FROM OMARAMA | | | 7503 | 115 | 7503 | 301 | | _ | \$17,884 | -\$38,100 |
| | | REGIONAL COUNCIL PEST RATES | | | 0 | | 0 | 37195 | 0 | 0 | -\$17,684 \$19,511 | -\$38,100 -\$38,100 |
| -91 -91 | | MAFICING R & LM CONTRIBUTION | | | \$51,212 | 813,113 | \$38,100 | \$37,579 | 38100 | \$0 | \$19,511 \$19,511 | 90 \$6 |
| | | TOTAL FOR FINANCIAL YEAR 1990/91 | | 2 | <u> </u> | 010,1101 | 000,1001 | 401,010 | | | \$19,511 | \$ 0 |
| 1200 | | 1907/99 FINANCIAL YEAR | | | | | | | | | \$19,511 \$19,511 | \$0 \$0 |
| -91 | 5 | AERIAL POISON 1080 CARROT COSTS TO 30/09/91 | | | 32594 | 9779 | 22816 | • | 22818 | | \$9,732 \$9,732 | · . \$0 |
| -91 | 6 | OTAMATAPAIO SPUR + SOME OF COSTS FROM JOB 3 OS&TO BACK GORGE FOR HIERACIUM CONTROL/GROUND COVI | 700 HA | 85 PER HA | 59500 | 17850 | 41650 | 8118 | 41650 | 51382 | \$0 | \$0 |
| -92 -92 | 7 | AERIAL POISON 1080 CARROT L SPUR L POINT WATERPALL | 2000 HA | 18 PER HA | 36000 | 10800 | 26200 | 10800 | 25200 | 25200 | \$0 \$0 | \$0 \$0 |
| -92 | 8 | NETT EXISTING FENCE - TOP FINE EWE BLOCK (MATERIALS) | 500 M | 2 PER M | 1200 16400 | | 1200 16400 | | 1200 15400 | | \$0 \$0 | 40 \$0 |
| -92 | 0 | NETTING EXISTING FENCE - BACK PDKS TO OTEMATATA RIVER | 8200 M S HOURS | 2 PER M 500 PER HR | 1500 | 450 | 1050 | 450 - | 1050 | 1050 | \$0 | \$ 0 |
| -92 | 10 | HELICOPTER INSPECTION AND SHOOT OF POISONED AREAS FOLLOW UP FOR JOBS 1 & 2 | 50 MAN DAYS | | | 2250 | 5260 | 2250 | 6250 | 5250 | \$0 | \$ 0 |
| -92 -92 | 11 | FOLLOW UP FOR JOB 3 & 5 | 50 MAN DAYS | 150 PER DAY | 7500 | 2250 | 5250 | 2250 | 6250 | 5250 | \$0 | \$0 |
| -92 -92 | | CONSTRUCTION OF AIRSTRIP | · | | 7000 | 2100 | 4900 | 2100 | 4900 | 4900 | \$0 \$0 | \$0 |
| | • | | | | \$169,194 | \$45,478 | \$123,718 | \$25 958 | \$123,718 | \$93,032 | \$0 \$0 | \$0 . \$0 |
| | ^ | TOTALS FOR FINNANCIAL YEAR 1991/92 | | | \$109,1941 | 443,410 | @120,110 | aco'ocol | Wico'Liza | 400,001 | \$0 | \$0 |

| • | | | | | | | | | | | | | | |
|---------------|------------|---|---------|----------|-------------|-----------|-----------|-----------|------------|--|-----------|----------------|------------|----|
| VEARST | | 1902795 FUNANCIAL YEAR | | | | | | | ÷ | | | \$0 | \$0 | |
| 145101893 | 41,444 | | | | | | | | | | , | ••• | ¥. | |
| Jul-92 | 14 | PURCHASE OF GROUND APPLICATOR FOR PELLS, OATS, CARROT | r | | | 2000 . | 600 | 1400 | 600 | 1400 | 1400 | \$0 | 90 | |
| Jul-92 | 15 | FOLLOW UP FOR JOBS 1 4 2 | | DAVS | 150 PER DAY | 7500 | 2250 | 5250 | 2250 | 5250 | 5250 | \$0 | . 50 | |
| Jui-92 | 16 | FOLLOW UP FOR JOB 3 & 5 | | | 150 PER DAY | 7500 | 2250 | 5250 | 2260 | 5250 | 5250 | \$0 | \$0 | |
| Jui-92 | 17 | NET EXISTING FENCE BK YDS/L GULLY CHIMNEY/GBOUIE SP | | ETRES | 2 PER M | 16000 | 0 | 16000 | 0 | 16000 | | \$0 · | .\$0 | |
| Aug-92 | 18 | NET ACROSS TOP OF DOWNS | | ETRES | 2 PERM | 9700 | Ő | 9700 | Ő | 9700 | | \$0 | \$0 | |
| Sep-92 | 19 | NEW CONSERVATION FENCE - FORKS BLOCK (NOT NETTED) | | ETRES | 4 PERM | 10800 | õ | 10800 | 0 | 10800 | | \$0 | \$0 | |
| oop or | 10 | The mound of the state of the second motification | 2100 10 | in 11120 | a t cettint | 10000 | ŭ | 10000 | U | 10000 | | \$0 \$0 | \$0 | |
| Jun-93 | | TOTAL FOR FINANCIAL YEAR 1992/93 | | | | \$53,500 | \$5,100 | \$48,400 | \$5,100 | \$48,400 | \$11,900 | | \$0 | |
| | | Loure Louring Charles and | | | I | 400,000 | 40,100 | 440,1001 | 40,100 | A local | 011,005 | \$0 | \$0 | |
| Wexter | | ADAUXA FINANCIAL YEAR | | | | | | | · | | | \$0 | \$0 | |
| | 849944 | | | | | | | | | | · | \$0 | \$0 | |
| Jul-93 | 20 | AERIAL POISON 1080 CARROT-TOP FINE EWE BLOCK | 200 HA | | 25 PER HA | 5000 | 5000 | | 5000 | | | \$0 | \$0 | |
| Jul-93 | 21 | AERIAL POISON 1080 CARROT GORGE BLOCK | 600 HA | | 25 PER HA | 15000 | 15000 | | 15000 | | | \$ 0 | \$0 | |
| Jul-93 | 22 | AERIAL POISON 1080 CARROT FRONT GORGE | 609 HA | | 25 PER HA | 15225 | 15225 | | 15225 | | | \$0 | \$0 | |
| Jul-93 | 23 | AERIAL POISON 1000 CARROT FRONT SADDLE | 650 HA | | 25 PER HA | 18250 | 16250 | | 16250 | | | \$0 | \$0 | |
| CG-guA | 24 | HELICOPTER INSPECTION AND SHOOT OF J20 - J23 | | HOURS | 500 PER DAY | 1000 | 300 | 700 | 300 | 700 | 700 | \$0 | \$0 | |
| Aug-99 | 25 | FOLLOW UP FOR JOBS 20-23 | | | 150 PER DAY | 15000 | 4500 | 10500 | 4500 | 10500 | 10500 | \$0 | \$0 | |
| Aug-93 | 26 | FOLLOW UP FOR JOB 3 & 5 | | | 150 PER DAY | 7500 | 2250 | 5250 | 2250 | 5250 | 6250 | \$0 | \$0 | |
| Oc1-92 | 21 | OS & TD FORKS BLOCK | 400 HA | • | 90 PER HA | 36000 | 10800 | 25200 | 10600 | 25200 | 25200 | \$0 | \$0 | |
| | | | | | | | | | | | | \$0 | \$0 | |
| | | TOTAL FOR FINANCIAL YEAR 1983/94 | | | | \$110,975 | \$69,325 | \$41,650 | \$69,325 | \$41,650 | \$41,650 | - \$0 | \$0 | |
| | | • | | | | | | | | | | \$ 0 | \$0 | |
| NEARA | | 1991/96 FINANCIAL MEABLE IN THE REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A | | | | | | | | | | \$0 | \$0 | |
| | | | | | | | | | | | | \$0 | \$0 | |
| Jui-94 | 28 | AERIAL POISON 1080 CARROT - TOP&BOTTOM BACK YARDS PDK | | | | | | | | | | \$0 | \$0 | |
| | • | BOTTOM WETHER RANGE | 1530 HA | | 25 PER HA | | | | 0 | | | \$0 | \$0 | |
| Aug-94 | 29 | HELICOPTER INSPECTION AND SHOOT OF J29 AREA 1860HA | 2 HOL | 1 | 600 PER HOU | | 300 | 700 | 300 | 700 | 700 | \$ 0 | • \$0 | |
| | S 0 | FOLLOW UP FOR JOBS 1 & 2 | | | 150 PER DAY | 7500 | 2250 | 5250 | 2250 | 5250 | 5250 | \$0 | \$0 | |
| | 31 | FOLLOW UP FOR JOB 3 & 5 | | DAYS | 160 PER DAY | 7600 | 2250 | 5250 | 2250 | 5250 | 5250 | \$0 | \$0 | |
| | 92 | OS & TD BOTTOM WETHER RANGE | 800 HA | | 85 PER HA | 25500 | 7650 | 17850 | 7650 | 17850 | 17850 | \$0 | \$0 | |
| | | | | | | | | | | | | _ | | |
| <u>Jun-95</u> | | TOTAL FOR FINANCIAL YEAR 1994/95 | | | | \$41,500 | \$12,450 | \$29,050 | \$12,450 | \$29,050 | \$29,050 | \$0 | \$0 | |
| | | | | | | | | | | | | | | × |
| | | The states | | ^ | | | | | | | | | | |
| | | TOTALS | | • | | \$481,364 | \$151,961 | \$319,403 | \$151,961. | the second s | \$175,632 | \$ 0 | \$0 | |
| | | | | | | | ARMERS | | | | | AFIMERS | | i. |
| | | | | | | | SHANE C | | NPUT | | | T | | |
| | • | | | | l | 5 | | | | IMPLITS | FARMER | JALANCE | ALANCE | |
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Appendix 2

RABBIT AND LAND MANAGEMENT PROGRAMME BLOCK WORKSHEET

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Property: Otematata

| Block No/Name | Area (118) | Rainfall | Soils | Topo- graphy | Vegetation Dominants | % Hieracium | Other Problem Weeds | % Bare Ground | Land Use Capability Description | Fentiliser History | Present Carrying Capacity SU/ha |
|------------------------------|---------------|----------|---|--------------------------------------|---|----------------|---------------------------|------------------|---------------------------------------|--|--|
| Station Paddocks | | 300 | Becks Glenburn wetherburn | Plas | Native grasses Limited introd. grasses | <10% | Brier Broom | 40% | III - 40% IV - 60% | - | |
| Top Fine Ewe and Riverbed | 280 | 300 | Glenburn Becks Otemstata Omarama | Flat, rolling Steep (Gorge) | Native grasses | <10% | Bria Broom | 40 | III) IV) 10% VI 90% | - | .68 |
| Front Gorge | 609 | 300 | Otomatata Meyer Waitaki | Rolling Steep | Native Grass Silver tussock | 10% | Broam | 20-30 | VI 50% VI VII 50% | - | .81 |
| Back Gorge | 600 | 300 | Omarama Meyer Waitaki Waitaki | Rolling Steep | Native grasses Tussock | 20% | - | 20-30 | VI) V1)95% VI) VII5% | OS 1990 clover and cocksfool | 1.09 |
| Gorgo | 600 | 300 | Olomalala Meyer Waltaki | Sicep Rolling | Native grasses Tussock | <10% | Briar | 20-30 | VI VI 60% VII 40% | 7 | 0.77 |
| Front Saddle | 650 | 300 | Waitaki Meyer Otematata Waltaki | Rolling | Native grasses Tussock Introd. grasses | 20% | | 20-30 | VI 30% VII 70% | OS 1970 dark sides OS & TD 1988 | .85 |
| Back Saddle | 250 | 300 | Omerama Meyer Waltaki | Rolling | Nativo grazses Tussocic Introd. grazser | 60% | - | 20 | VI VI 80% VII 20% | OSTD 1988 Maintenance, 1990 | 1.17 |
| Paddocks (Backyards) | _ ` . | 300 | Glenburn Edwards | Flat | Pasture, Lucerne, crops | - | • | - | 111 | Regular maintenance | Holding block |
| Top & Bottom Charlie Free | | 300 | Otematata Waitaki | Rolling | Native grasses Sh Tussock | <10% | | 30 | VI 50% VII 50% | • | Holding block |

| | OTEMAT ATA | AVIEMOR | OTM+AVIE |
|---|--------------------|------------|-----------|
| R & LM FUNDS ALLOCATED TO OTEMATATAVAVIEMORE | \$407,713 | \$151,242 | |
| R &LM FUNDS NEEDED FOR OTEMATATAVAVIEMORE | \$319,403 | \$255,174 | |
| SURPLUS/DEFICIT | \$88,310 | -\$103,932 | -\$15,622 |
| LOCAL SHARE OTEMATATA/AVIEMORE | \$161,881 | \$96,859 | \$258,820 |
| TOTAL FUNDS REQUIRED FROM OTEMATATA/AVIEMORE | \$161,981 | \$200,791 | |
| LESS SURPLUS ALLOCATION FROM OTEMATATA | | \$68,310 | |
| TOTALS FOR COMBINED PROPERTY PLANS | \$161,981 | \$112,481 | \$274,442 |
| EFFECTIVE GRANT RATE | 66% | 42% | |
| RATES UNDER OLD RATING SYSTEM | \$198,810 | \$73,875 | \$272,185 |
| VALUE OF FENCE ERECTION | \$7,775 | \$11,320 | 1. |
| SUMMARY OF WORK | S COSTS FOR OTEMAT | TA STATIC |)N |
| PRIMARY POISONING | \$210,977 | \$101,546 | \$116,831 |
| SECONDARY CONTROL | \$73,384 | \$22,015 | \$51,369 |
| NETTING FENCES | \$50,803 | \$0 | \$50,803 |
| LAND MANAGEMENT | \$131,800 | \$36,300 | \$95,600 |
| | \$7,000 | \$2,100 | \$4,900 |
| TOTALS FOR RABBIT & LAND MANAGEMENT PROGRAMME - OTEMATATA | \$481,364 | \$161,961 | \$319,403 |

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| Block No/Name | Arca (ha) | Rainfall | Soils | Topo- graphy | Yegetation Dominants | % Hieracium | Other Problem Weeds | % Bare - Ground | Land Use Capability Description | Fertiliser History | Present Carrying Capacity SU/ha |
|--------------------------------|--------------|----------|--|------------------|---|----------------|---------------------------|--------------------|---------------------------------------|--|--|
| Top & Bottom Downs | 230 | 300 | Olenialata Conroy | Rolling | Native grosses Sh tusseek Introd. grosses | 10% | - | 20 | VI | OSTD Top Downs 1988 D.Drilled Bott, Downs 1985 | 1.21 |
| Rabbit Farm | 100 | 300 | Otematata Contoy | Flat | Native grasses | <10% | • | 70 | VI | | Holding bloc |
| Top Backyards Paddock | 500 | 300 | Conroy Blackstone Otematata | Rolling | Native grasses, tussock, Introd. grasses | 50-60 | • | 25 | VI | OSTD 1989 clover & cocksfoot | .7 |
| Bottom Backyards Paddock | | 300 | Omerama Otemalata Waitaki | Rolling Steep | Native grasses tussock | 20 | - | 40 | VI 50% VII 50% | - | .7 |
| Long Gully | 1100 | 300 | Blackstone Arrow Alexandra | Rolling Steep | Native grasses tussock | 10 | scrubby gullics | 30 40 | VI 50% VI VII 50% | - | ,55 |
| Bottom Forks | 120 0 | 300 | Conroy Blackstone Arrow Olematata Alexandra | Rolling Sicep | Native grasses iussock | <10% | | 40 | VI 60% VII 40% | | .33 |
| Long Spur | 1050 | 300 | Blackstone Omarams Arrow Kirkliston Benmore Waitaki Puketeraki | Sieep | Native grasses Snow tussock Tussock | <10% | scrubby gullics | 20 | VI 30% VII 70% | - | .34 |
| Round Knobs | <i>,</i> 600 | 450 | Omerama Ariow Meyer Kirkliston | Rolling | Tussock snow tussock Native grasses | <10% | | 10 | VI VI 60% VI VII 40% | - | .82 |
| Chimney | 700 | 400 | Meyer Arrow Kirliston Alexandra | Rolling | | 10% | | 10-20 | VI VI 70% VII VII 30% VII | - | .03 |
| 1,000 Acres | 400 | 450 | Kirkliston | Rolling | 11 | <10% | | 30-40 | VII | • | ,35 |

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| Block No/Name | Arca (112) | Rainfall | Soils | Topo- graphy | Vegetation Dominants | Hieracium | Other Problem Weeds | % Bare Ground | Land Use Capabilly Description | Fertiliser History | Present Carrying Capacity SU/ba |
|-------------------------|---------------|----------|---|------------------|---|-----------|---------------------------|------------------|--------------------------------------|--|--|
| Chambers | 600 | 450 | Kirkliston | Rolling | Tussock Snow tussock Native grasses Maku Lotus | • | | 30 | VII | OS 1986 Maku Lotus 3 kg Cocksfooi 1 kg | .47 |
| Glenboughis Hut | 160 | 450 | Benmore Puketeraki Kaikowa | Rolling | Tussock Snow Iussock Native & Maku | - | - | 30-40 | VII | OS 1985 Maku Lolus 3 kg Cocksfoot 1 kg | 1.44 |
| Boltom Weilker Range | 780 | 300 | Otomatata Waltaki Alexandra | Rolling | Tussock Native grasses | 20% | - | 40 | VI 80% VII VII 20% | | .37 |
| Otamalapaio Spur | 2000 | 350 | Omarama Otematata Meyor Tengawal Becutoro Kirkliston Kaikoura | Rolling Steep | Tussock Snow tussock Native grassca | <10% | - | 30 | VI 20% VII 80% | - | .37 |
| Glenboughie Spur | 2400 | 400 | Mayer Omarama Kirkliston Bennore Kaikoura Waitaki | Rolling Steep | TSI I | <10% | - | 30 | VI 25% VII 75% | - | .34 |
| Springs | 600 | 450 | Kirkliston | Rolling | R. | - | - | 20 | UV I | - | ,30 |
| Basins | 5000 | 450 | Puketeraki Kaikoura Puketeraki Kaikoura | Rolling Steep | E | | - | 40-50 | VII 50% VIII 50% | 5m | .26 |
| Long Point Basin | 1450 | 450 | Pukcieraki Kaikoura | Rolling Steep | Tussock Snow Tussock Msku/Cft, Native grasses | <10% | - | 30 | VII | OS 1984 Maku Cocksfoot | .64 |
| Waterfall | 1150 | 450 | Pukoteraki Kirkliston | Rolling Steep | B | - | - | 30 | NN | OS 1984 Maku Cocksfoot | .68 |

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| Block No/Name | Area (ha) | Rainfall | Soils | Topo- graphy | Vegetation Dominants | % Hieracium | Other Problem Weeds | % Bare Ground | Land Use Capability Description | Pertiliser History | Present Carrying Capacity SU/ha |
|------------------|--------------|----------|-----------------------|------------------|--|----------------|---------------------------|------------------|---------------------------------------|-----------------------|--|
| Turnsgain | 1400 | 450 | Puketeraki Ksikowa | Rolling stoep | Tussock, Snow tussock native grasses | - | | 30 | VII | - | _14 |
| Top Long Point | 1500 | 450 | Pukeieraki | Rolling | π | | _ | 30 | VII | | .15 |

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| | PEST CO | NTROL PRC | GRAMME | | | APPENDIX 3 | |
|---------------------------------------|--|--|-------------------------------------|---|---------------------------------------|--|--|
| | ************ | | | PO | SONING PROGR | | CONTROL |
| BLOCKNONAME | PEST PRONENERS REPT SCALES | PRESENT HADEL INFESTATION LEVELS (MOLEAN SCALE) | POISONING | PEST CONTROL | EPIMATY. | SECONDARY | PROGLAVINE OTHER THAM POISONING |
| STATION PADDOCKS | Нан | 2 | 75, 78, 83, 85, 87, GO | | 1990-GO | | APPROPRIATE |
| | | | | | | | FOLLOW UP AG |
| TOP FINE EWE & | EXTREME + | 2 WITH PATCHES | 75 GO, 83 GO | 1 | 1990-AO | PINDONE | DIRECTED BY |
| RIVER BED | нюн | OF 4 | | | - | PATCH 1892 | CRC SUPERVISO |
| FRONT GORGE | EXTREME | 2 | 78 AO PP, 79 AO + GO | 2 | OA-OB61 | | a - 1 |
| | · · · · · · · · · · · · · · · · · · · | | 88AO+GO | ند چه ور او سندهای همیدر به ۱۵ تا د بر بن جدید بین وی مثر تر و هدی د س | | | |
| BACK GORGE | HIGH | 2 | 79 AO+GO | 2 | 1991-AC | | |
| | | | | | 1001-100 | · · · · · · · · · · · · · · · · · · · | |
| GORGE | EXTREME | 2 | 75- AO, 78 PP - GO | 2 | 1990-AC | | 14 - 16 - 14 - 14 - 14 - 14 - 14 - 14 - |
| **** | · · · · · · · · · · · · · · · · · · · | | 85, 88, 87, -AO + GO | | · · · · · · · · · · · · · · · · · · · | *** | • • • • • • • • • • • • • • • • • • • |
| FRONT SADDLE | EXTREME | 3 | 75 GO, 78 PP | 2 | DA-0661 | | · |
| | | | 81 AO, 84 PPO | | | **** ********************************* | |
| | | **** | 68 GO+AO | | | • | |
| BACK SADDLE | High | 3 | 75 GO, 78 PP 81 AO, | 2 | 1991-AC | | |
| | | | 84 PPO, 88 GO+AO | | · · · · · · · · · · · · · · · · · · · | | |
| PADDOCKS & B YDS | MODERATE | 3 | 75 AC, 80 GO, 83 GO+AO | 3 | 1991 GO | - | |
| · · · · · · · · · · · · · · · · · · · | | | 85468 GO+AO, 89 GO | | | | |
| TOP & BTM CHARLIE | MODERATE | 2 | 75 GO, 78 GO, 82 GO, | 3 | 1991-AC | · · · · · · · · · · · · · · · · · · · | |
| FAEE | | · · · · · · · · · · · · · · · · · · · | 85 GO, 88 GO+AO | | 1331-70 | ** *********** | |
| TOP & BTM DOWNS | EXTREME | | 75 00 77 00 00 00 | | | | |
| IUP & BIM DOWNS | EATHEME | 1-2 | 75 GO, 77 GO, 60 GO, 82 GO 85 GO | 3 | 1981-AC | | |
| | • • • • • • • • • • • • • • • • • • • | • | | | | | ····································· |
| RABBIT FARM | EXTREME | 1-2 | 75 GO, 77 GO, 60 GO, | 3 | 1991-AC | | مالا بر مراجع می م مراجع می مراجع |
| | | | 82 GO 85 GO | | | | |
| TOP BACK YDS PDK | HIGH | 2 | 77 AO, 78 AO+GO, | 5 | 1990-AC | | |
| | ************************************** | | 86 AO+GO | | | | 199 W.T. C 1. C 200 Party Law Son Property Laboration |

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| BTM BACK YDS PDK | EXTREME | 3 | 77 AO, 78 AO+GO, | Б | 1990-AC | | 4 4 |
|--|---|---|-------------------------|-----|---------------------------------------|--|--|
| | and "h 2 d him () for an end of the second | | B6 AO+GO | | · · · · · · · · · · · · · · · · · · · | | |
| ستعادي والمراجع والمراجع بسران فالمراجع والمتاريخ مراجع والمتاريخ والمتاريخ والمتاريخ والمتاريخ والم | | | | | | a ang a pang managana ka ka da ang ang ang | |
| LONG GULLY | EXTREME+HIGH | 2 | 87 AO, 88 AO | 4 | 1991-AC | | |
| BOTTOM FORKS | EXTREME | 1-2 | 74 AC, 75 AC, 76,77PPGO | 4 | 1991-AC | | ······································ |
| | | | 78,79 PP GO+AO, 81 AO, | | | | |
| | - | | 84 PP GO, 86 AO+GO, | | | | المراجع والمراجع ووالمراجع ووالمراجع ووالمراجع ووالمراجع ووالمراجع ووالمراجع ووالمراجع و |
| | | و «منظمی و اور نمریم و میرود و می هد نه منابع و و روی و منابع و میر زمینی و بس | 87 AO, 89PPAC | | | | |
| | | | 67 AO | 4 | | | |
| ROUND KNOBS | LOW | 2 | B/ AU | | | | |
| LONG SPUR | HIGH + LOW | 2 | 87 AO | 4 | 1992-AC | | L * # |
| | | | 07 A O | 4 | | | |
| CHIMNEY | LOW | 2 | 67 AO | 4 | | 41 | |
| 1000 ACRES | LOW | 2 | 87 AO | | | ************************************** | |
| CHAMBERS | LOW | 2 | | | | | |
| OIDMDLIG | | | | | · · · · · · · · · · · · · · · · · · · | | |
| GLENBOUGHIE HUT | LOW | 2 | 81 AO | | | | |
| BTM WETH RANGE | EXTREME AND | 2 | 75 AC, 78 AO, 80 AO+GO | 5 | 1980-AC | | |
| and have been and the second fully field of the second sec | HIGH | ان د و مندو بند و مرود و مرود و مرود و مرود و مرود و م | 89 AO, 84 GO | | | | |
| OTAMATAPAIO SPUR | LOW + EXTREME | 2 | | Б | 1991-AC | | B 9 |
| UTAMATAFAIU JEUN | LOW TLATILIEL | <u>.</u> | | | *** | | |
| GLENBOUGHIE SPUR | LOW, HIGH, EXT | 2.3 | 78 AC, 87 AC | 5 | | • • • • • • • • • • • • • • • • • • • | |
| SPAINGS | LOW | 2.3 | | • | | | |
| BASINS | LOW | 2.3 | | *** | | | |
| | | | | | | | |
| LONG PT. BASIN | LOW + HIGH | 2-3 | | | 1992 AC | | |
| WATERFALL | LOW+HIGH | 1.2 | | | 1992 AC | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ۲۹ ای د دار با این این این در در در در در می در بار می در بار می در بار می در بار می در می در این در این در ای با از در این در این می در بار می در بار می در این در ای |
| TURNAGAIN | LOW | (-2 | | - | | | |
| | | | | | | | ****** |
| TOP LONG POINT | LOW | 1-2 | 78 1080 PELLETS, 80 AC | | | | |

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FACTORS INFLUENCING LAND MANAGEMENT DECISIONS

Appendix 4

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_____CONSTRAINTS ON____

Otemalata

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| Block No/Name | Fencing Quality (stock & rabbit) | Present Block Use | Direct Drilling | Irrigation | OSTD | Tree Planting | Fencing | Stock Water | Access | Other |
|-----------------------------|---|---|--------------------------------|--------------|--------------------|--------------------|---------|---|--------|----------------|
| Station Paddocks | Good Rabbit Proof | Holding Paddock | Able to be DD | NA | | | | | 1 | Pastoral Lease |
| Top Fine Ewe & Riverbed | Good | Winter Hoggets Ewes lambing | Topography Soils Climate | NA | Climate & Solls | Climate & Soils | | Adequate | - | ů |
| Front Gorgs | Good | Ewes in winter and spring | Topography Soils | NA | U. | | | | - | 11 |
| Back Gorge | Good | Ewes in winter and spring | U | NA | 38 | | | a | - | 1 |
| Gorge | Good | Ewes in spring winter block as necessary (poison) | a | NA | 43 | H | • | n | | |
| Front Saddle | Good | Ewes Spring Sth Ewes winter Lambs (Feb/Mar) | 1 | NA | U | м | | <adequate< td=""><td></td><td></td></adequate<> | | |
| Back Saddle | Good | h | . 16 | NA | u. | 12 | | u . | 1 | E . |
| Paddocks (Backyards) | Good | Varied use incl cattle | ~ | Water supply | | | | Adequate | | H |
| Top & Boit. Charlie Free | Good | Holding Block various use | Soils | NA | E. | ű | | Adequate most times | × | - 18 |

| Block No/Name | Fencing Quality (stock & rabbit) | Present Block Use | Direct Drilling | Irrigation | OSTD | Tree Planting | Fencing | Stock Water | Access | Other |
|--------------------------------|---|--|--------------------------------|-------------------|------|------------------|---------|---|----------|-------|
| Top & Bott Downs | | Varied use Holding Stud mobs etc | Topography | Water supply | M | 8 | | Adequate | ~ | 4 |
| Rabbit Parm | Good | Varied holding | Possible | Limited amount | n | н | | Adequate artificial at most times | ~ | |
| Top Backyards Paddock | Good | Winter 2th wethers Varied | Topography | NA | n | 8 | | Adequate | ~ | R |
| Bottom Backyards Paddock | Good | Winter 2th wethers various | Topography Solls Climate | NA | J# | ti. | | Adequate most times | 1 | |
| Long Gully | Good | Winter ewes Summer ewes | | NA | ti i | × | | Adequate | ~ | |
| Bottom Porks | Good | Spring, summer Ewes and some winter | Climate | NA | μ | 4 | | Adequate | | |
| Round Kobs | Good | Winter ewes Summer young ewes | Solls Altitude | NA | 31 | Ľ | | Adequale | Good | |
| Chimney | Good | Winter ewcs Summer hoggis | | NA | 11 | 4 | | U | Adequate | |
| 1,000 acrea | Good | Summer Ewes & Holding Block | я | NA | n. | a | | ta di | Good | 33 |
| Chambers | Good | Summer Stud | B | NA | 61 | Ľ. | | 1 | Good | - |
| Glenboughie Hut | Good | Ewes and holding block | P2 | NA | ų | IJ | | 4) | Good | 18 |

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| Block No/Name | Fencing Quality (stock & rabbit) | Present Block Use | Direct Drilling | Inigation | OSID | Tree Planting | Fencing | Stock Water | Access | Other |
|------------------------|---|---|---------------------------------|-----------|------|------------------|---------|----------------|----------|-------|
| Bottom Weiher Range | Good | Winter wethers Summer Young wethers | Topography Soils Rainfall | NA | 8 | U. | | u | Adequate | н |
| Otamatapalo Spur | Good | Winter wethers Summer Young Wethers | Topography Soils Altitude | NA | el | | | 18 | Adequate | 0 |
| Glenboughie Spur | Good | u u | ų | NA | W | Ľ | | U | Adequate | . 11 |
| Springs | Good | Summer 4th wethers | 14 | NA | n | | | u | Adequate | u |
| Basins | Good. No fence on top of range | Summer wethers | | NA | 11 | E . | | A | Adequate | 4 |
| Long Point Basin | Good | Summer Young Ewes Winter wethers | Topography Soils | NA | 10 | ii ii | | | Adequate | |
| Waterfall | Good | Summer 2th | ta. | NA | ü | | - | 14 | Adequate | ú |
| Tumagain | Clood | Summer Bwes | - 0 | NA | 83 | 8 | | 0 | Adequate | Н |
| Top Long Point | Good | Summer Ewes | ų | NA | 4 | ta | | 81 | Adequate | ų |

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LAND MANAGEMENT DECISIONS

Otematata

| Block No/ | Possible Options | Preferred Option | Land Use Within | Environmental Impact | Programme to Achieve Agreed Land |
|------------------|------------------|------------------|-------------------|--|---|
| Name | for Block | for Land Use | RLM (comments | of Land Use | Use Option |
| | | (Landholder and | see Appendix III) | Į | |
| | | CRC Officer to | | | |
| | | Complete) | · | | · · · · · · · · · · · · · · · · · · · |
| Station Paddocks | 1,2,7,8,9,15 | 1,2,7,9 | 1 | Nil | |
| Top Fine Ewe | 1,2,8,9,10 | 1,10 | 1,10 | Nil | 600 m of netted fence into Otematata |
| Riverbed | , , , , , | - | | | River/Gorge |
| Front Gorge | 1,2,8 | 1,2,8 | 1,2 | Nil | |
| Back Gorge | 1,2,8,10 | 1,2,8,10 | 1,2, | Treatment will help to stem hieracium spread | Net Back Gorge/Long Gully fence OS & TD Spring 1991 |
| | 100 | 100 | 1,2 | Stort Inde Locality pp. Oud | 600m netted fence into River/Top F |
| Gorge | 1,2,8 | 1,2,8 | 1,4 | | Ewe |
| Front Saddle | 1,2,7,8,10 | 1,8,10 | 1,10 | | Net front Saddle/Rostriever |
| 110m Guddie | 1,2,1,0,10 | | | · · · · · · · · · · · · · · · · · · · | Boundary + Front S/Paddocks |
| Back Saddle | 1,2,7,8,10 | 1,2,8,10 | 1,2,10 | | Net Boundary with Rostriever and |
| Duck Dubbio | 1 19411 10110 | | | | Backyard Paddocks - labour only |
| Paddocks | 1,2,7,9,10,11,15 | 1,2,7,10,11,15 | 1,2,7,10 | | Net Rostriever Boundary and Back |
| (Backyards) | | | | | Saddle |
| Top & Bottom | 1,2,8,9,10 | 1,2,8,10 | 1,2,10 | | Net with Back Saddle and Downs |
| Charlie Free | | | | | |
| Top & Bottom | 1,2,7,8,9 | 1,2,8 | 1,2,10 | | Net with Top & Bottom Backyards |
| Downs | | | | | and Bottom Wether Range |
| Rabbit Farm | 1,2,3,7,9, | 1,2,7 | 1,2 | · · · · · · · · · · · · · · · · · · · | |
| Top Backyards | 1,2,7,8,10 | 1,2,3 | 1,2,10 | | Net boundary with Long Gully |
| Paddock | | | | | Division of the Long College |
| Bottom Backyards | 1,2,7,10 | 1,2 | 1,2,10 | 1 | Net boundary with Long Gully Downs and Paddocks |
| Paddock | | | | | |
| Long Gully | 1,2,8,10 | 1,2,8,10 | 1,2,10 | | Net fences adjoining Backyards |
| | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Paddock & Back Gorge |
| Bottom Forks | 1,2,7,8 | 1,2,7,8,14 | 1.2.7.8,14,16 | | Subdivision fence Reduce stocking OS & TD Lower Forks + direct drill |
| · · | | | · · | | |
| Round Knobs | 1,2,8,9,5 17 | 1,2,8,11 | 1,2 17 | · · · · · · · · · · · · · · · · · · · | Construct airstripp |

| Block No/ Name | Possible Options for Block | Preferred Option for Land Use (Landholder and CRC Officer to Complete) | Land Use Within RLM (comments see Appendix III) | Environmental Impact of Land Use | Programme to Achieve Agreed Land Use Option |
|------------------------|-------------------------------|--|---|--|--|
| Chimney | 1,2,8,9,10 | 1,2,8,10 | 1,2,10 | | Net bounday with Glenbouie Spur |
| 1,000 Acres | 1,2,8 | 1,2,8 | 1,2 | | |
| Chambers | 1,2,8 | 1,2,8, | 1,2 | | |
| Glenboughie Hut | 1,2,8 | 1,2,8 | 1,2 | | |
| Boltom Wether Range | 1,2,7,8,9 | 1,2,8 | 1,2,8 | Treatment will help retain short tussock against Hieracium invasion | OS & TD 500 ha for Hieracium control |
| Otamatapaio Spur | 1,2,8 | 1,2 | 1,2 | | |
| Glenboughie Spur | 1,2,8 | 1,2 | 1,2,10 | | Net boundary with Chimney Gully |
| Springs | 1,2,8 | 1,2 | 1,2 | | |
| Basins | 1,2 | 1,2 | 1,2 | | · · · · · · · · · · · · · · · · · · · |
| Long Point Basin | 1,2,8 | 1,2 | 1 222 | | |
| Waterfall | 1,2,8 | 1,2 | 1,2 | | |
| Turnagain | 1,2 | 1,2 | 1,2 | | |
| Top Long Point | 1,2,8 | 1,2 | 1,2 | | <u>_</u> |

Key:

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Land Use Options Within RLM

(1) Grazing
 (2) Short Term Spelling
 (3) Long Term Spelling
 (4) Sell Interest in Block
 (5) Afforestation
 (6) Retire Permanently
 (7) Direct Drill clover/grass
 (8) OSTD



(9) Fodder Banks of Dryland Shrubs
(10) Strategie Rabbit Fencing
(11) Irrigation
(12) Scrub clearance
(13) Tracking
(14) Sub-divisional fencing
(15) Cultivation to new pasture
(16) Reduced grazing
(17) Airstrip

| GRAZING CHAR | TEAD OT | TARATAT | TA OTAT | 104 100 | 4 | | | - | lanen her te | | | line and | | hunder | A Index To | | - | - |
|----------------------|---|--|------------|---------------------------------------|-----------|-----------|-----------|----------|--------------|---|--------------------|------------|-------------|--|-----------------|------------|-------------------------|-------|
| GRAZING CHAH | FUNU | EMATA | ADIA | TON 199 | - | WEANIN | 0 | | TUPPING | - | | EWE SHE | V | N | & WEDI | SHEARING | | |
| N)ASCX HALME | ARIX EA | CLASS OF SHOCK | | NULIA ULIKIK | Inn | | 41.2 | ats. | 10192 | avs. | 906 1906 | . 7.90 | EREN | | way. | unda) T | POTAL YOJOK UNITS | . Alt |
| <u>Daniere ser e</u> | and all | 国家的制度 | | 相關的關係 | | 们以受到 | | 1.12 | . Julian | 自己的 | | | 14 5 910 | $\langle \cdot \rangle$ | 1 | 3.1 8 | | |
| STATION POKS | | 6 | | | 1 | 1.5 | 1 | 1.00 | STUD HO | XICETS A | ND EWES | 0 | 1.00 | | | 1000 | | - |
| OTEMATATA RIV | 10 | COWS | 6 | 20 | | - | - | | - | 1 | ENGNELAS | SDAEseba | - | AS500555 | | | 40 | 0.1 |
| OTEMATATA RIV | 60 | STEERS | \$\$ | 35 | yantepeps | | HARK BOUR | Ezesugad | 04642000 | | | | | (1. A. | 1.1 | | 112 | L/ |
| ALL PROVED OFFICE | | (TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | | | | - | | | - | | - | linenter | | - | | - | 152 | 1.3 |
| AV FRONT CTRY | | STEERS | <u>I</u> S | 70 | - | | - | - | | - | RED.PTCHS | #2542568 | A4668153 | 68527648 | #1451411 | - | 161 | - |
| TOP FINE HWE | 280 | HOODET | 0.7 | 100 | - | - | MERS | HONACAUN | adage gen | | | 29502256 | + HAY | 1 | 1 | | \$7 | 0.1 |
| TOP PINE SWE | 280 | EWIS | 1.6 | 730 | - | | | | 1 | 1 | i sen s | 1.000 | Aut inter | ANARAREA | | 1462 | 23 | 0.1 |
| | | | - | | 1 | - | 1.000 | | | | - | | | | 1000 | | 119 | 0.0 |
| FRONTCONCE | and a commentation of the local division of | EW13 | 1.5 | | | | _ | | 6.00 | | · · · · · | 1 | 140828083 | ***** | bease sad | #249 | 2.)2 | |
| FAONT GOROS | | EWES | 0.8 | | | | - | 104 | statissi | the second se | | 1 | | | | | 210 | |
| FRONT CORGE | 609 | DA HIERS | 4.5 | 7 | | | | | | REVAIDAN | \$4310 <i>1</i> 43 | Sessinger | LAUNGES | STARSORA S | | | 11 | 0.0 |
| | | | | · · · · · · · · · · · · · · · · · · · | | | - | | | 1 | 1 | 1 | | | | 1 | -195 | 0.5 |
| BACK GORGE | 600 | EWES | 16 | | - | | - | 1 | - | 5 | 1 | 1 | | ****** | BYADWABA | 8488 | 323 | 0.5 |
| BACK GORGE | 600 | EWILS | 0,8 | 2500 | | | | 114 | 84 54 64 FE | and the state | - | 1 | | b ØdesOXAB | 9459 | | 314 | 0.5 |
| | | | | | | | - | | | 1 | | | 1 | | 1.1.1.1 | 1 | 657 | 1.0 |
| DORGE | 600 | EWER | 1.6 | | | - | - | | | 1 | | | 48428568 | 430N2449 | INCOMP. | 5845 | 375 | |
| OORGE | | 77 EWER | 0.6 | 250 | | · · · · · | | Albe | 64823945 | and a second second | | | | | | 1 | 75 | 0,1 |
| GOROE | 600 | DA IURA22 | 1,5 | 7 | 1 | | | | | ***** | 6+4+5422 | Clesudal | ABATHRAS | 41942223 | 1 | | 11 | 0.0 |
| Low sectors and | | 1000 | | | | 2 | | | | | | | 1000 | 1 | | | 464 | 0.7 |
| FRONT SADDLE | 650 | EWES | 1.6 | 700 | | | | 1000 | | 1000 | 1.1.1 | 1000 | 4419 | AT SARAS | SANAND SA | ERRA. | 279 | 0.4 |
| FRONTSADDLB | 650 | 2T EWES | 0.6 | 750 | - | | | 88.00 | arsunada | azdeless | 2623 | | - | | | | 111 | 01 |
| FRONT JADDLE | 650 | TEWES | 0.6 | | | | | | | | MA | 19652258 | eses | 1 | 1 | | (4X | 0.2 |
| PRONTADDLE | 650 | IA JUNER | U | | | 1 | | | | 10011046 | LOATESNO | REACONGS | 11411552 | CE BEALHO | | | 14 | 0.0 |
| | | | 1 | | | | | | | 10.00 | | | 1 | | 1.00 | 1. C. | \$52 | 0.8 |
| BACKSADOLE | | EWas | 15 | 660 | - | 6 | - | | | 1 | 1.000 | 1 | 22.94 | 48848448 | ***** | DYNG | 138 | 0.5 |
| BACK SADOLB | 250 | EWES | 0.8 | 1000 | | | - | 614 | CLI ST PAS | AH | - | | - | - | 1 | 1 | 134 | 0,5 |
| BACK YOS PDK | | - | | | HOL DOM | GLOCKS | | - | STUDNO | COTETS A | ND BWIR | - 200 KILL | 102.0 | - | | | 207 | 11 |
| TAD CHARLIBP2 | | | | | HOLDON | | | | | the second second second | | . NOO KILL | | | | 1 | | - |
| THE R P. LEWIS CO. | | 1000 | | | | - | | | | - | - | - | | | | THEF | | |
| TOP & B DOWNS | 730 | IFWES | LA | 600 | | | | | - | - | | - | RUNDHUNG | ANUMET A | PRRANADA | 1864 | 279 | 1.1 |
| ABBITPARM | 100 | | - | 1 | HOLDING | BLOCK | - | | | | | | 1 | - | 1 | | 1 | - |

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| GRAZING CHART | FOR OT | EMATA | TA STAT | ION 198 | rt | WEANIN | 0 | - | TUMONO | č., | 1 | EWESTE | and the second data was not a second data with the | | & WETH | RARINO | E | |
|-----------------|---|--------------|--------------|---|----------|----------|------------|-----------|-----------|-----------|------------|-----------------|---|------------|--|-------------------|------------------------|---|
| Water Workshold | the second second | | a management | In second | - | V | CHILDREN T | - | 9 | | | Distantion | V | V | IN STREET, CO | | and the second second | |
| SCHOR HAME | A2024 305 | story | NC DOUDY | MACE | 794 | Pear . | AA.R | ANE | NAT | mer | λŰŬ | wo | 530 | bet | , NON | 91 2 5 | TOTAL STOCK UNUS | SUMA (OR (ANHU) |
| 的研究的計 | | 1230 | (Trades | | | | 加減認識 | | | | a bit we | ALC: NO | | | | | | 314 |
| TOP BACK YEDS | 500 | IT WINS | 0,7 | 1300 | - | | | - | - | | - | artestar | ARISESES | - | - | - | 175 | 0.3 |
| TOP BACK YRDS | | AT WIDES | 0.7 | 1500 | | | | 1 | 1 | | | | | STERENT | | | 175 | 0,1 |
| GOTTALLA D MARK | | Corr SurPass | | | - | | | | - | | | - | - | | - | 1.00 | 251 | 1 million 1 |
| DOTTOM & VRUS | 250 | 2T WTHS | Q.7 | 1500 | - | | | | | - | | PFERFERA | VE158533 | - | | | 175 | 0,7 |
| LONG OUTLY | 1100 | TBAW | 0.7 | 3000 | | - | | 1 | - | | - | - | | BA.BE | 236628 | | 219 | 07 |
| LONG OULLY | | EWES | 0.7 | \$06 | REUKON24 | 8×5× | | | 1 | 1 | 1 | | | | | 84.68 | 94 | |
| LONGOULLY | | COWS | 6 | 26 | | | | · · · · · | | | | | ***** | | - | | 20 | |
| LONG DOLLY | 1100 | EWES | 0.65 | 2000 | | | 122 | | 1 | auda | | ATELECKS | 1 | | | | 224 | |
| | | | | | - | | | | | | | 1 | | | the second | 1-name | 507 | |
| BUTTOM PORKS | | EWES | 1.6 | BOC. | | - | | | - | _ | | | the second s | x2xx & ees | the second s | ats. | 172 | |
| DOTTOM FORKS | 1200 | COWS | 6 | 20 | - | - | - | - | - | | | - | ONESNEM | OBTRESS | | | 20 | |
| | | | - | | - | | - | - | | | Lan | | - | - | | | 392 | |
| LONG SPUIL | | TT WINS | 47 | 1500 | | - | | - | 494422770 | abullatia | **** | | - | | | | 255 | |
| LONO SPUS | 1050 | TEWES | 0.7 | 750 | - | - | | - | - | | _ | - | \$4.54 | Sunanu+C | RNBI | 1 | 83 | |
| | - | | | 1 | | - | 1.00 | 1.1 | - | - | | 1 | - | | | | 352 | |
| ROUND KNOBS | the second se | HWES | 043 | 1500 | | | 1 | - | | . 1414 | INGIN | 50.054582 | | | · · · · · · · | | 200 | |
| LOUND KNOBS | 6400 | 2T TIWES | 67 | 75 | | | | | | | | | H HY | PROMATOR | BAE! | | 12 | 0.1 |
| ROUND KNOBS | and the second se | COW'S | 6 | 20 | - | | | 1 | 1 | | 6+6553568 | 205522205 | | ******* | | | 40 | |
| ROUND XNOBS | 600 | DEERS | 53 | 35 | PBORKHER | ATSALATE | assnanne | | WebWasas | | | | 1 | | | **** | 161 | |
| | | | - | | - | | | - | | | | | | | | 1 | 492 | |
| CRIMHEN | the second se | EWES | 0.61 | 1900 | | - | | - | 1 | 6056 | 4443434343 | ABREMARD | - | | | | 201 | |
| CHIMNEY | | EWB\$ | 0.65 | the second se | | stel | - | - | | | in a star | | | | | 8640 | 338 | |
| CHIMNEY. | 200 | COWS | 6 | 20 | | | | | | _ | 88424584 | APPERENT KA | ***** | Specesar | | | 10 | 0.0 |
| | - | | | | | | | - | | | | | | - | - | | 564 | |
| 1000 ACKES | 400 | BWES | 9.65 | 2500 | XARABASS | 2.000 | | | 1 | - | - | - | - | - | | 5978 | 334 | 0.5 |
| CUMMBERS | 100 | WO GTE | <u>0.63</u> | 400 | | | ***** | 15 | | - | | | | | - | - | 4 | 0.6 |
| OLENBOUGHE NUT | 100 | TWO | 0.7 | 1400 | | | - | - | - | - | | 1 | | | | | 164 | 1.10 |
| OLENBOUGHE HUT | | EWES | 1 | 1500 | | | | Ø | | | | 1000 | | | | | \$7 | |
| | 1 | | | | | | | - | | 1 | | | | 1 | - | | 201 | 14 |
| BTM WHITH RNOR | 750 | WETTES | 0,7 | 1000 | | | - | - | - | ant reast | Salety Su | | ******* | | | | 234 | 030 |
| STM WETHENDE | | EWES | 07 | 500 | | | | | | | | | | **** | ****** | - | 38 | |

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From:LAND IN-DEALFIONED ALXINER THE OFFICIAL SNEORMATTON ASTOC 13:01 4365 P.023/034

DTZ NEW ZEALAND

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Appendix A

This report has been prepared on the instruction of Land Information New Zealand in terms of the contract number 50268 dated September 2001 and is undertaken for the purposes of the Crown Pastoral Land Act 1998.

LAND STATUS REPORT for OTEMATATA - i[LIPS ref.12561]Property3of3

| Land District | Otago |
|---|---|
| Legal Description | Sections 38-39 situated in Block VIII Gala Survey District. |
| Area | 3.1910 hectares. |
| Status | Fee Simple. |
| Instrument of lease | OT 6A/165. |
| Encumbrances | Section 8 Mining Act 1971. |
| na na sana sa | Section 168A Coal Mines Act 1925. |
| Mineral Ownership | Prior to the issue of CT No OTA/615, the coal and minerals |
| | were owned by the Crown. The coal and minerals are still |
| | owned by the Crown. |
| Statute | Land Transfer Act 1952. |

| Data Correct as at | 22 April 2002 |
|--------------------------|---------------|
| [Certification Attached] | Yes |

| | | , 110 |
|----------------------------|---------------|-------|
| Prepared by Mu | urray Bradley | men q |
| Crown Accredited Agent DTZ | Z New Zealand | X |
| | | () |

LAND STATUS REPORT for OTEMATATA - i [LIPS ref.12561] Property 3 of 3 Research Data: Some Items may be not applicable Property 3 of 3 SDI Print Obtained Yes NZMS 261 Ref H40. Waitaki District Council. Local Authority Crown Acquisition Map Kemp Deed of Purchase. SO 17649 (1913) - Defines Sections 38 and 39 SO Plan Block VIII Gala Survey District. Relevant Gazette Notices N/A OT 6A/165. CT Ref / Lease Ref Legalisation Cards N/A CLR N/A Allocation Maps (if applicable) N/A VNZ Ref - if known N/A Crown Grant Maps N/A If subject land Marginal Strip: (a) Type [Sec 24(9) or Sec 58] (a) N/A (b) Date Created (b) N/A (c) Plan Reference (c) N/A

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LAND STATUS REPORT for OTEMATATA – i

[LIPS ref.12561]

Property 3 of 3

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Research – *continued*

| Pro | perty | 3 | Of | 3 | |
|------|-------------------|---------------------------------|--------------|----------|--|
| If C | rown lan | d - Check Irri | gation Maps. | | N/A. |
| Min | ing Map | S | | | There are no mining interests recorded within the boundaries of the land. |
| If R | oad | | | | |
| | | ated on a Blo) Transit NZ . | | ction | (a) Crown Grant and Section 110A Public Works Act 1928. |
| b) | By Proc | 2 | | | (a) N/A |
| c) | Plan No |) | | | (c) N/A |
| Othe | er Releva | ant Informatio | Π | * | |
| a) | Concess Frank. | sions - Advice | from DOC o | r Knight | (a) N/A |
| | ** | o any provisio ettlement Act | - | i Tahu | (b) N/A |
| c) 1 | Mineral | Ownership | | | (c) Prior to the issue of CT No OTA/615, the coal and minerals were owned by the Crown. The coal |
| (d) | Other In | formation | | | and minerals are still owned by the Crown. (d) N/A |



COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952

Search Copy

IdentifierOT6A/165Land Registration DistrictOtagoDate Issued09 October 1974

Prior References GN 398320

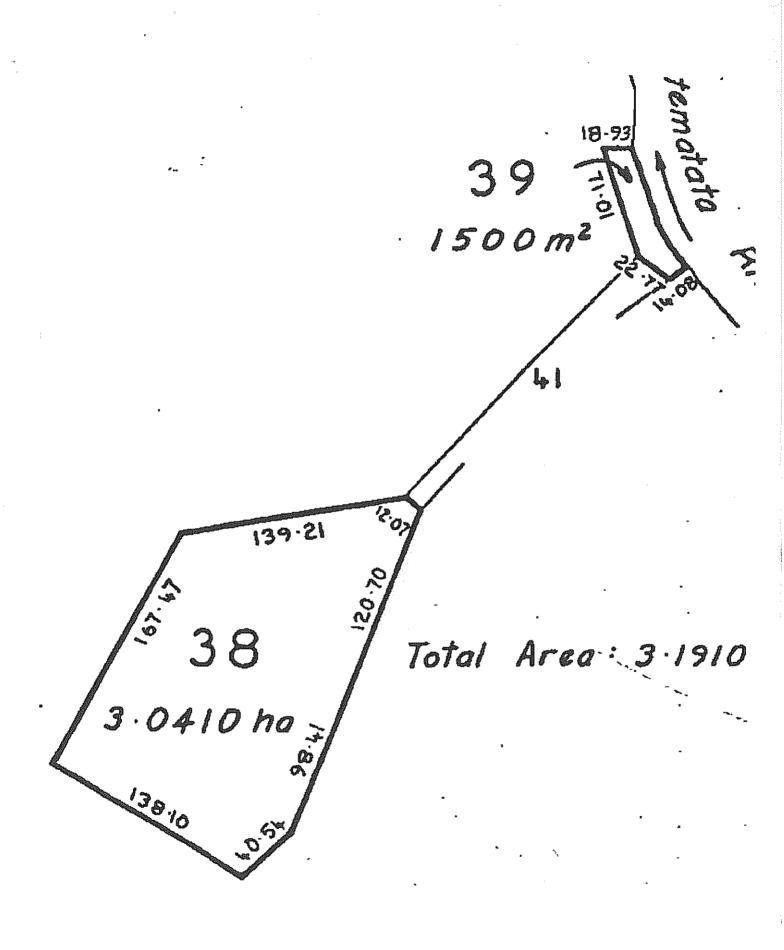
EstateFee SimpleArea3.1910 hectares more or lessLegal DescriptionSection 38-39 Block VIII Gala Survey
District

Proprietors The Waitaki County Council

Interests

Subject to Section 8 Mining Act 1971 Subject to Section 168A Coal Mines Act 1925







COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952

Historical Search Copy



Prior References GN 398320

EstateFee SimpleArea3.1910 hectares more or lessLegal DescriptionSection 38-39 Block VIII Gala Survey
District

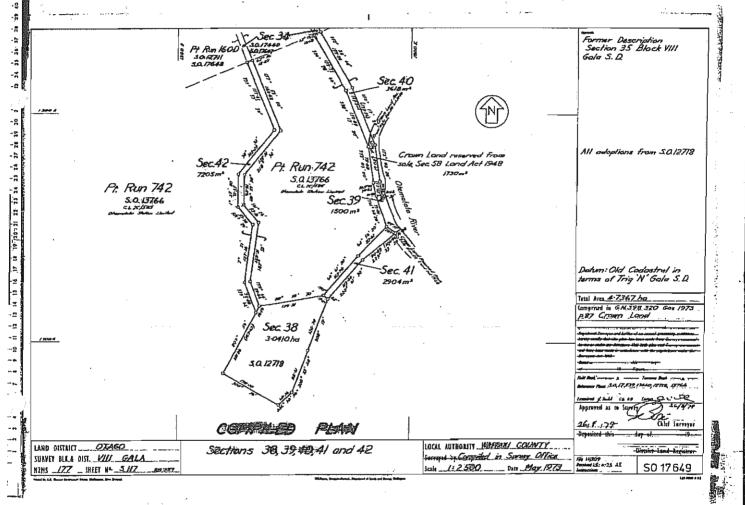
Original Proprietors The Waitaki County Council

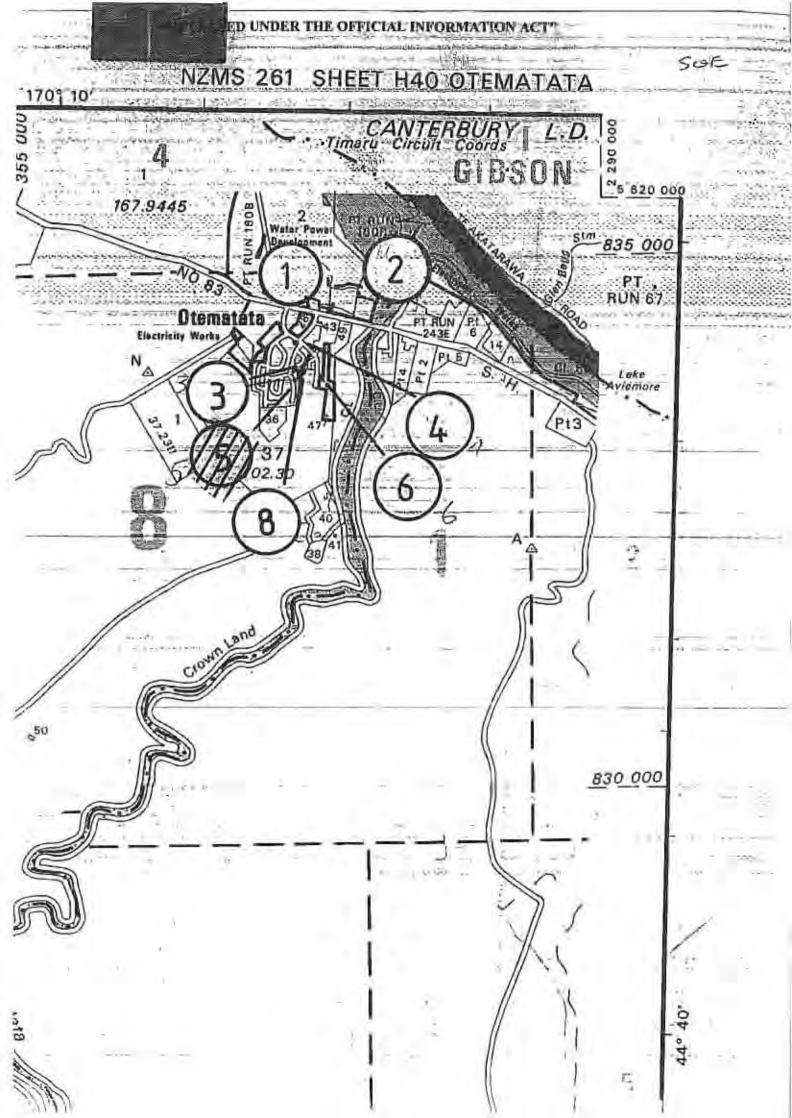
Interests

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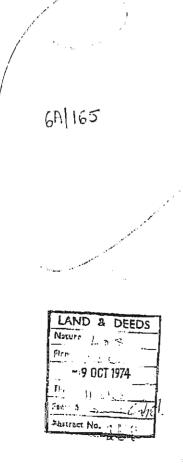


CERTIFICATE under Section 116 of the Land Act 1948

Received this () if



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From: LAND INFERMATION DINFORM THE OFFICIAL ENFORMATION SECTOO2 12:33 #683 P.002/003

L. & S.-B. 13

Number 4019 Land District of Otago

Certificate under Section 116 of the Land Act 1948 for the issue of a Certificate of Title Under the Land Transfer Act 1952

Name, address, and occupation of person entitled to Grown Grant: Chairman Councillors and Inhabitants of the County of Weitaki

Date from which entitled: 29 March 1974

Statutory authority for issue of Certificate of Title: Section 54 Land Act 1948

Area: 3.1910 hecteres

Description of land: Sections 38 and 39. Block VIII, Gala Survey District

Purchase price: 10 cents

Fees collected: \$4

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Trusts, reservations, and restrictions affecting land, and general remarks;

Subjects to the reservations and conditions imposed by section 8 of the Mining Act 1971 and Soction 1682 of the Cost Prines Act 1925.

We HEREBY CERTIFY that the above particulars are correct, and the District Land Registrar is hereby authorised to issue accordingly a Gertficate of Title under the Land Transfer Act 1952 instead of a Grown Grant:

Nun Chief Surveyor, .

Assistant Commissioner of Crown Lands,

9 10/1924

Previous reference:

Provisional-Register, Vol.

fol.

S.O. Flan 17649

From: LAND INREMALASED WEBER THE OFFICE AL SINFORMATION 5/2002 12:55 #692 P.003/029 MWP_0016498 4308431 Rec CT VOL 6A EOL 165 9.10.1474 Oflock VIII yold Output 398320 TINDA SPERCED IN THE BEGISTER BOOK WRead ALR 31 JAN 1973 -14 aburtement to sections 33,34.40, 41, 42" and wown lond wown land WOR-HELEIBIELEN DOW OTACO ADEVA reserved from Place return sections 358572 He land fintly described been is 39 and 4 9 Block VIII Alla Distort is pright to solver water over seiting 380 ph oslock VIII galle now know as sections sectoret (CT 6A/165) created by 35 Black UII Sala aread extended in the register as Dostars to VOL GA FOL 1277. And 3,98573 He land Hendly ALR described been is 21.4 4925 Anauguas section 34 Bleck MII Jala Lasta 339 34 14No \$2 Seations Stata , 398574 The, land simply 41, 42 Sectors 37, 34, Jesembed been is no Sulo Destrict DCorto VIII. 111 Sala Destrict and subject to a right to convey water in gross in fame of the branner bouncillars and action 35, Block VIII gale oushing 9 nhabitant of the bounty 2. now Known as the pettos y writami created & 38 (3.0410 fe) 34 (1600 m²) 40 (3619 41 (2404 m²) 42 (7205 m²) bluchyll Deed embodied in regenter as Val 16A-Falco Distrut 12.9.1474 2+ 2.05M 1277 NO AU see new athellation 429417 21/4/192 Bort Run 1600 and part sections 33 and 34 Block VIII Gala District are now know asphtaeotion 36 Block VIII Gala District ALR (- 9451- ton) - 7.6. 1979 at 1.58 pm see Re appellation 517233/1 Phile ः ःऽ Gay Matrie MOW ALR Bost Run 1600 and fait section 33 and Reach VIII Gala Distinct are now of as fast section 37 Block VIII Gala Di 30 JAN 1973 1.35 Time 1. 5. 1979 at 1.58 pm des Re appellation 517233/2 Foo ALK

Extract from N.Z. Gotelic, 18 January 1973, No. 4, page 87

From: LAND INFORMATION DUNEDIN THE OFFICIATE ENPERMATION 222002 12:54 #692 P.002/029

Declating Land Acquired for a Government Work and Not Required for Thay Purpose to be Crown Land

PURSUANT IN action 35 of the Public Works Act 1928, the Minister of Works bereby declares the land described in the Schedule herato to be Crown land, subject to the Land Act 1948, as from the 22nd day of January 1978.

SCHEDULE OTAGO LAND DISTRICT

All those picess of land situated in Blook VIII, Gala Survey District, Diago R.D., detcribed as follows:

Att. Inose piecas of land situated in Blook VIII, Gala Survey District, Diago R.D., described as follows:
A. N. P. Being
I 2 54 Part Run 160D; coloured orsoge on plan P.W.D. 159708 (S.O. 12718). Part Proclamation No. 169708 (S.O. 12718). Part Proclamation 1959. New Zeadord Gatelle, S September 1959. No. 53, p. 1223). Olago Land Registry. 7659 (New Zeadord Gatelle, S September 1959). No. 53, p. 1223). Olago Land Registry. Date and coloured as abhove-mentioped and deposited in the office of the Minister of Works at Wellington. In UGH WATT. Minister of Works. (P.W. 92/12/46/56/2; Dn. D.D. 92/12/46/6)
A. N. Synatza Comment Friner, Wellington, New Zeadord, New Zeadord, New Zeadord, New Zeadord, New Zeadord, New Zeadord, New Seabard, New Scalard, New Scalard

A. A. SUBANZA. Onvernment Printer, Wellington, New Zostung,