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# **EL 116**

#### **MOUNT OGILVIE**

# FIRST PARTIAL SURRENDER REPORT FOR THE PERIOD 14/12/1973 TO 13/12/1974

Submitted by Bridge Minerals Pty Ltd 1974

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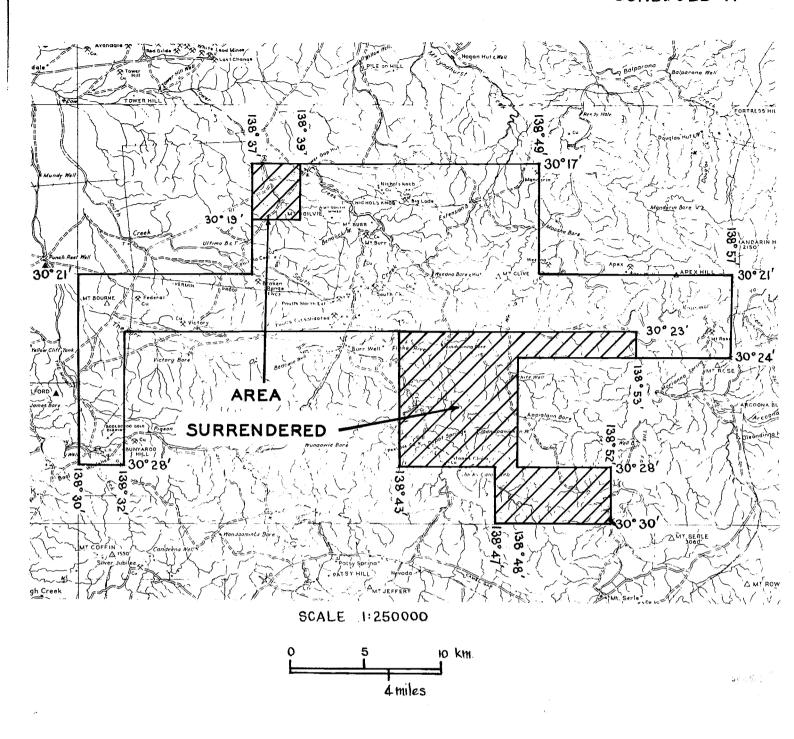
Minerals and Energy Resources

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101 Grenfell Street, Adelaide 5000

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BRIDGE MINERALS PTY. LTD.

SOUCKET DM 936/73

AREA 463 km²

COPLEY

332 km²

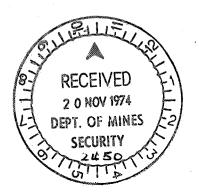
EL au 116 EXPIRY DATE 13:12-74

# EXPLORATION REPORT

# RELINQUISHED AREA WITHIN EXPLORATION LICENCE NO.116

LEIGH CREEK DISTRICT SOUTH AUSTRALIA

BRIDGE MINERALS PTY. LIMITED OCTOBER, 1974



D. J. Wright J. S. Shirley G. J. Dewar

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0.04

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- Appendix I Schedule of Mienrals Claims Copley 1:250,000
- Appendix II Review of Reports to the S.A. Mines
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  Areas in the Copley Region

#### I. INTRODUCTION

Exploration Licence No. 116 near Mt. Ogilvie in the North Flinders Ranges, South Australia, approximately 560 km due north of Adelaide, occupies an area of 463 sq.km. This area was granted by the Minister of Development and Mines on 14 December, 1973 for a period of one year.

An exploration program involving airborne reconnaissance, geological mapping, geophysical surveying and auger drilling was carried out over a number of prospects within the E.L. from January, 1974 to August, 1974. As a result of this work, a number of areas of interest were outlined and an application for renewal of E.L.'s to cover these areas has been lodged with the South Australian Mines Department. The remainder of the E.L. is to be relinquished and this report is a summary of the work carried out by Bridge Minerals Pty. Limited on this area.

Text Fig. 1 shows those areas to be retained and that to be relinquished.

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#### II. TITLE SEARCH

Dr. G. Dewar carried out a title search of all relevant mineral claims within the Copley area. Appendix I contains a summary of the leasing data.

#### III. AIRBORNE RECONNAISSANCE

Geologists, G. Dewar, D. Wright and J. Shirley carried out an airborne survey of the exploration licence area to locate prospective areas for follow-up ground reconnaissance.

As a result of this survey, the following were selected for subsequent examination on the ground.

Nichols Nob Mt. Burr Broken Range Dead Finish Boolooroo South Creek Mount Rose Victory Federal

#### IV. REPORT APPRAISAL

Information was collected from the South Australian Department of Mines on expired E.L. and S.M.L. areas in the Copley region. This information was collected and analysed before a field program was initiated as a means of following up the prospects located by the aerial reconnaissance. Appendix II contains a list of the relevant reports and a brief summary of salient points contained within.

#### V. FIELD WORK

The greater part of the field work was carried out within those parts of the E.L. which are to be retained. This work is detailed in the "Exploration Report - Exploration Licence No. 116", which has been submitted to the South Australian Department of Mines. However, the following prospects were investigated on the ground within the relinquished area.

#### a) Peal Box

The Peal Box copper prospect is situated approximately 100 metres west of Depot Spring. Malachite is exposed in a 5 metre long by 1 metre deep cut and several shallow prospecting pits. The 15 metre long weakly mineralised zone strikes 105° and dips at 55° south, that is parallel to the host siltstone. Malachite and azurite are smeared over the joint and cleavage planes of the silt over a maximum width of 1 metre. Prospecting in the area failed to locate any significant strike extensions to the lode although traces of malachite were observed in a creek some 20 metres north of the exposed lode. The prospect was thought to have limited potential, and did not warrant further investigation.

#### b) Big Lode (Mont Pele)

007

The Big Lode Copper Mine is situated approximately three miles north-east of Mt. Burr and 1 mile east of Nichol's Nob Mines. No record of mine production from the workings was available.

The prospect is located in very steep rigged terrain accessible only by four-wheel drive vehicles. Malachite and azurite occur within a 10 ft. wide breccia or shear zone which has been strongly silicified and ferruginised. The east-west shear is mineralised weakly over a strike length of 50 metres.

The shear dips vertically and runs perpendicular to the strike of the sequence of silts with dolomite bands which form a large raft within the Mt. Burr Diapir.

As a result of the reconnaissance investigation no further work was recommended.

#### VI CONCLUSION

After carrying out the first years exploration, it was decided to split the E.L. into the two most prospective areas (Text Fig. 1) and relinquish the central area. It was concluded that the relinquished area did not warrant a more detailed investigation after a literature search and airborne reconnaissance survey followed up by groundwork on a number of small mineral exposures, which did not yield significant results.

# APPENDIX I

SCHEDULE OF MINERAL CLAIMS

COPLEY 1:250,000

#### LEGEND

Plain numbers - areas held under legal title

009

- X holdings shown as lapsed on Department maps
- X holdings lapsed but not so marked on Department maps
- multiple holdings partly lapsed, usually not so shown on Department maps.

#### SCHEDULE OF MINERALS CLAIMS - 1-MILE MAPS IN COPLEY 1:250,000

|              |                                       |                   |   | · ·               |   |
|--------------|---------------------------------------|-------------------|---|-------------------|---|
| MAP          | MAP<br>NO.                            | MINERAL<br>CLAIMS | 1   | MINERAL<br>LEASES | COMMENTS  |
| )<br>idnurst | 700                                   |                   | 24/7/70   | 4057              | •   |
| idnurst      | 790                                   | 74 - 75           | Susp. to 14/7/73                                      | 4051              |   |
|              |                                       | 98 - 100          | Susp. to 15/12/73                                     |                   |   |
|              | 1                                     | x 5377-86         |   |                   |   |
| lication     | ,                                     | x 6172-87         |   |                   |   |
| rect)        |                                       | x 6194-95         |   |                   |   |
|              |                                       | X 6196            |   |                   |   |
|              |                                       | X 6197-99         |   |                   |   |
|              |                                       | X 6200-06         |   |                   |   |
| :            |                                       | X 6243-45         |   |                   |   |
|              |                                       | X 6246-51         |   |                   |   |
|              |                                       | X 6254-55         |   |                   |   |
| <b>&gt;</b>  |                                       | o 6502-11         | 6505,06; 6509-11 Lease applied                        |                   |   |
|              |                                       | 6519-20           | Lease applied for                                     |                   |   |
|              |                                       | X.6582-84         | •   |                   |   |
|              |                                       | x 6722            |   |                   |   |
|              |                                       | X 6724            |   |                   |   |
|              |                                       | X 7259-66         |   |                   | * <sup>2</sup>  |
| politica .   |                                       | X 7359-60         |   |                   | •   |
|              | , , , , , , , , , , , , , , , , , , , | ≎ 7387-7401       | 7387-89,7394-96,7399<br>Lease applied for             |                   | •   |
|              |                                       | X 7503            |   |                   |   |
|              |                                       | 7651-56           | Optioned to Cultus                                    |                   |   |
|              |                                       |                   | Pacific & lease applied for.                          |                   |   |
|              |                                       | 7671              | Optioned to Cultus<br>Pacific & lease applied<br>for. |                   |   |
| *            |                                       | 7630              | Lease apulaed for                                     |                   |   |
|              |                                       | X 7681-86         |   |                   |   |
|              |                                       |                   |   |                   |   |
|              |                                       |                   |   |                   | grammanamamamatika arkankanistan arkan Armanin. Armanin kalendari kana memerinan arkanin hiritari. In |

| *        |   | •  |                   |                |
|----------|---|--|-------------------|----------------|
| MAP "    | MAP MINERA CLAIMS                       | i,   | MINERAL<br>LEASES | 010            |
| le       | 793 X 1349                              |  | 211715.656        | COMMENTS       |
|          | , 12 1343                               | Area 3   | 2999              | Area l         |
| <u> </u> | X 1367<br>X 1395                        | Area 3   | X337273           | 2000           |
|          | X 1395<br>X 2102-0                      | Area 3 extended                                | J                 | Area 3         |
|          | X 4439                                  | Area 1   |                   |                |
|          | X 5047-48                               |  |                   |                |
|          | X 5226                                  | Area 3   |                   |                |
|          | X 5267-68                               | Area 3 extended                                |                   |                |
|          | X 5301-02                               | o ozcended                                     |                   |                |
|          | X 5362                                  | Z Mc. Rose                                     |                   |                |
|          | X 5516-17                               | Area l Federal                                 |                   |                |
|          | X 5591-92                               | Area 1   |                   |                |
|          | X 5888-90                               | Area 3 extended                                |                   |                |
| )        | X 5891                                  | Area 3   |                   |                |
|          | X 6009-11                               | Area 1   |                   |                |
|          | X 6038-39                               | Area 3   |                   | _              |
|          | X 6040-41                               | Area l   |                   |                |
|          | X 6111                                  | Area 1   |                   |                |
|          | X 6113                                  | Area 1   |                   | •              |
|          | X 6117-18                               | Area 1 - Victory                               |                   |                |
|          | X 6338-42<br>X 6526-27                  | Area 1 - Federal                               |                   |                |
| <b>■</b> | X 6526-27<br>X 6528-29                  | Area 2   |                   |                |
|          | X 6531                                  | Area 1   |                   |                |
|          | X 6532-35                               | Area l   |                   |                |
|          | X 6536-39                               | Area 1 extended<br>Area 1                      |                   |                |
|          | X 6540-44                               | Area 2   |                   | •              |
| ·        | X 6585-86                               | Boolooroo                                      |                   |                |
| 33       | 6737-40                                 | Area 1 Lease applied                           | _                 | <b>1)</b>      |
|          |   | for  |                   |                |
|          | X 6821<br>X 7049                        |  |                   |                |
| •        | 1 " " " " " " " " " " " " " " " " " " " | Area 1   |                   |                |
|          | V 705                                   | Area 3   |                   |                |
|          |   | Area 1   |                   | -              |
|          | 147                                     | Area 1   |                   |                |
|          | X 7305                                  | Area 1   |                   | •              |
| 200      | X 7360-61                               | ß  |                   |                |
|          |   | Protesta e e e e e e e e e e e e e e e e e e e |                   |                |
| 794      | 95                                      |  |                   |                |
|          |   | Area 7 <u>no curp</u> .                        |                   |                |
|          | 1                                       | No mines no susp.                              |                   |                |
|          |   | No mines no susp.                              |                   | 70.4° Para-11. |
| - SQR    |   |  |                   |                |
|          |   |  |                   |                |
| <u></u>  | *                                       |  | * * *             |                |

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|--|--|--|---|---|-------------------|
| MAP  | MAP<br>NO.                                     | MINERAL<br>CLAIMS  | COMMENTS  | MINERAL<br>LEASES                                   | COMPENDS          |
| ana<br>ntinued)  | <sup>794</sup>                                 | X 71.55-56<br>X 71.58-64<br>• 7646-47  | Area 7 Area 7 Area 7 7646 Lease applied for   |   |                   |
| ley  | 795  | X 5350<br>X 5363<br>X 5364<br>X 5511<br>X 6530<br>X 6553-74<br>X 6758-60<br>X 7010-12<br>X 7323-43 | Assim. in E.L.1? Mt. of Light, assim. Area 4 Mt. of Light, assim.  | X 1984<br>X2813-20                                  | Assim. in E.L. 1? |
| epena  | 796  | 1 - 19   | Elsie Adair <u>Lease</u><br>applied fo  | x 2932  | Area 6            |
|  |  | 5463-64<br>X 5816-19<br>X 6157-59<br>X 6813<br>X 6816-19   | Lease applied for Area 3  |   |                   |
|  |  | X 6908-27<br>● 7023-34<br>·<br>X 7321-22<br>OGC 7435   | Area 6 7030-lease<br>applied for<br>Area 6 Lease applied  |   | •                 |
|  |  | 7496   | for Area 6 Lease applied for  | ())   |                   |
| owie<br>applica-<br>on effect)   | 803  | 151-52<br>1807<br>X 5441   | Susp. to 9/6/73  Lease applied for  |   |                   |
| application effect)  | 804<br>n                                       | x 5257<br>x 5273<br>X 6067-72  |   | <b>3793-</b> 99                                     |                   |
|  |  |  |   |   | tt.               |

| T.                                      |                  |                                     |  |                   | 012               |
|---|------------------|-------------------------------------|--|-------------------|-------------------|
| 1719                                    | MAP<br>NO.       | MINERAL                             | COMMENTS .   | MINERAL<br>LEASES | COMMENTS          |
| ratana<br>applica-<br>n effect)         | <sub>*</sub> 805 | X 5373<br>X 5665<br>X 5729-31       | E.L. 71<br>SML 704<br>SML 704  |                   |                   |
|   |                  | X 5803-15<br>X 6309-17              | SML 704<br>SML 704   |                   |                   |
| tana<br>applica-                        | 806              | X 5204<br>X 5217                    | E.L. 71<br>SML 703   | 4059-67           | SML 703           |
| n effect)                               |                  | X 5258-59<br>X 5283<br>X 5284-85    | SML 703<br>SML 703<br>SML 703  |                   |                   |
|   |                  | X 5286<br>X 5568<br>X 5845          | SML 703<br>E.L. 71<br>SML 703  | •                 |                   |
| e                                       | 810              | x 5470                              |  | 3068-71           | inedent           |
|   |                  | X 7508-11                           | Lease applied for  |                   |                   |
| a<br>applica-<br>n effect)              | 811              | 6012<br>X 6947-49<br>X 6950-53      | Lease applied for  |                   | Check. Where Ooth |
|   |                  | X 6954<br>X 6955<br>X 6997-<br>7006 |  |                   |                   |
| a                                       | 816              | 146-150                             | Area 9 Susp. to 9/6/73   |                   |                   |
|   |                  | X 5076<br>X 5243-45<br>X 5473-75    | Area 8   |                   |                   |
|   |                  | X 6434                              | Area 6   |                   |                   |
|   |                  | X 6779                              | Area 6 6578 - Lease applied for Area 6   |                   |                   |
|   |                  | X 7210                              | Area 6 Area 6 Lease applied for  |                   |                   |
| *************************************** |                  |                                     | and the second s |                   |                   |

|  |                                       | Delisable da barrena   | 5344 - N. 442 X 4. 15 (4) |                      |  |                               |
|--|---------------------------------------|--|---------------------------|----------------------|--|-------------------------------|
|  | ,                                     | COP: Y 1:250,00  | 0 SHEET                   |                      |  | 010                           |
| Tables and the second s | 1                                     |  |                           |                      | ** · · · · · · · · · · · · · · · · · · | 013                           |
| ASE<br>DS.   | ON<br>MAP                             | REGISTERED OWNER   | AREA (ha)                 | LO<br>AVPID          | SUSP-<br>ENSION                        | COMMENTS                      |
| .9   | 796                                   | Boolooroo Mining Company,<br>Box 61, St. Peters, S.A.<br>5069                    | 229<br>Lease              | 10/7/73<br>applied   | 14/7/73<br>for                         | Dlsie Adaiı                   |
| <b>7</b> 5   | 790                                   | Frank Rieck, 583 Goodwood Rd., Col. Light Gardens, S.A. 5041                     | 40                        | 3/10/73              | 15/12/73                               |                               |
|  | <b>7</b> 94                           | Herbert Starr, Fifth St.,<br>Quorn   | 20                        | 22/10/               | <u>None</u>                            | Area 7 -<br>Plaint            |
| 100  | 790                                   | Frank Rieck  | 56                        | 30/10/<br>73         | 15/12/73                               |                               |
| -114   | 794                                   | Herbert Starr  | ?                         | 19/11/<br><b>7</b> 3 | None                                   |                               |
|  | 794                                   | Henry Heppner, Tanunda, S.A. 5352  | 203                       | 17/12/<br>73         | None                                   | No Mine                       |
| 5-152  | 816                                   | Bruce Burstem, 19 Glad-<br>stone Road, Nth. Brighton                             | 109.9                     | 21/3/74              | 9/6/73                                 | Area 9 -<br>Plaint            |
| 49   | 803<br>793                            | S.A. 5048  |                           |                      |  | Area 3                        |
| <sub>2</sub> 7   | 793                                   |  | A .                       |                      |  | Area 3                        |
| 5  | 793                                   |  |                           |                      |  | Area 3 -<br>Extended          |
| )7   | 803                                   | James Herbert Coad, Box<br>54, Hawker, S.A. 5434<br>(app. 20/1/53)               | 15 ac.                    | Lease a              | oplied for                             |                               |
| 12-03  | 793                                   |  | ·                         |                      | •                                      | Area l                        |
| <b>3</b> 9   | 793                                   |  |                           |                      | •                                      | •                             |
| 7-48   | 793<br>816                            |  |                           | Toma                 |  | Area 3<br>No Mines            |
| 7.<br>16   | - 806<br>806<br>793                   |  |                           | Laps                 | . O                                    | EL 71<br>SML 703              |
| 3-45   | 816<br>804                            |  |                           | j                    | •                                      | Area 8                        |
| 7-68   | 806<br>793                            |  |                           |                      |  | SML 703<br>Area 3<br>Extended |
| ي<br>س   | 804<br>806                            |  | •                         |                      | . *                                    | SML 703                       |
| 14-85  | 806                                   | 5284 - Geoffrey Hugh<br>Stewart, 19 Gladstone Rd.,<br>Brighton, S.A. 5048 (LAPSE |                           | Laps                 | ed 1                                   |                               |
|  |                                       | 5285 - B.J. Burslem (LAPSE   |                           | Laps                 | e <b>d</b> '                           | SML 703                       |
| 5<br>1-02  | 806<br>793                            |  |                           |                      |  | SML 703<br>Area 2<br>Mt. Rose |
| ,  | 795                                   |  |                           |                      |  | Mt. Rose<br>EL (EZ)           |
| 2  |                                       | D.J. Paltridge, Box 12,<br>Birdwood<br>R.O. Sickerdick, Lyndock                  | 20 ac.                    | Laps                 |  | _ ,,                          |
|  | · · · · · · · · · · · · · · · · · · · |  |                           | -                    |  |                               |

|                                 |                                  | <b>- 2</b> -  |   |               |  |                                 |
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|                                 |                                  |   | antiga adalah da jugah di gerapan di debendendenden in an-den |               | 01   | 4                               |
| SE<br>OS.                       | ON<br>MAP                        | REGISTERED OWNER  | AREA<br>(ha)  | VALID         | SUSP-<br>ENSION  | COMMENTS                        |
| J63                             | 795                              | D.J. Paltridge, Box 12,<br>BIRDWOOD   | 40 ac.  | Laps          | ed   | Mt. Light<br>assim.             |
|                                 |                                  | R.O. Sickerdick, Lyndock  |   |               |  |                                 |
| 364                             | 795                              | n n n n   | 20 ac.  | Laps          | sed  | Mt. Light assim.                |
| 73                              | 805                              |   |   |               |  |                                 |
| 177-86<br>41                    | 790<br>803                       |   | V 4   |               |  |                                 |
| 63-64                           | 796                              | Tapley Mining Co., c/o<br>Rare Earth Corp. P.O. Box<br>760D, Adelaide, S.A. 500 | 80 80   | APPLIED       | FOR  | Elsie<br>Adair                  |
| 170                             | 810                              |   |   |               |  |                                 |
| 73-75<br>11                     | 816<br>795                       | LAPSED<br>Rosmann Syndicate   | 38 ac.  | Laps          | ed   | Mt. Light                       |
| 16-17                           | 793                              | u   | 76 ac.  | Laps          | ed   | assim.<br>Area l -<br>Federal   |
| 68<br>91-92                     | 806<br>793                       |   |   |               |  | EL 71<br>Area 1 -<br>Broken Ra. |
| 65<br>29-31<br>308-15<br>316-19 | 805<br>805<br>805<br><b>7</b> 96 |   |   |               |  | Area 3                          |
| ,45<br> 88-90                   | 806<br>793                       | Australian Copper Co. P/L   | 120 ac.   | Laps          | 50   | SML 703<br>Area 3               |
|                                 |                                  | Box 857, Kentown 5067   | 120 ac.   |               |  | Extended                        |
| 91                              | 793                              | u u u   |   | Laps          | ed   | Area 3                          |
| 09-11                           | 793                              |   | · · · · ·   |               | •  | Area l                          |
| <u>.</u> 2                      | - 811                            | F.H. Faulding & Co. Ltd.<br>13 James Place, Adelaide<br>Magnesite               | 37 ac.  | Lease A<br>Fo |  | 3                               |
| 38-39                           | 793                              | Aust. Copper  | 40 ac.  | Laps          | eđ   | Area 3<br>No mines              |
| 40-41                           | 793                              | Aust. Copper  | 80 ac.  | Laps          | ed 🛷   | Area l<br>MtQglivie             |
| 57-72                           | 804                              | D. Miller & T. Agnew c/o Box 1, Leigh Creek SA                                  | 232 ac.   | Laps          | ed   |                                 |
| .11                             | 793                              | Aust. Copper Co.  | 40 ac.  | Laps          | ed   | Area l<br>Mt. Burr.             |
| .13                             | 793                              |   | . e<br>S  |               | •  | Area l<br>Mt. Burr.             |
| 17-18<br>57-59                  | 793<br>796                       | Aust. Copper Co.  | 80 ac.  | Laps          | ed   | Arca 3                          |
| 72-87<br>94-95                  | 790                              |   |   |               |  |                                 |
| 96<br>.97 <b>-</b> 99           | 790                              |   |   |               |  |                                 |
| 00-06                           | 790                              |   | 1 2   |               | e de la companya de l |                                 |
|                                 |                                  |   |   |               |  |                                 |

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|---|--|-----------|----------------------------------|----------|
| S. ON MAP   | REGISTERED OWNER   | AREA (ha) | VALID SUSP-<br>TO ENSION         | COMMENTS |
| 43-45<br>46-51<br>254-55<br>790<br>816  | A.C. Lively & C.L.<br>Lawrence, c/o Angepina<br>Station via Copley   | 40 ac.    | Lapsed                           | Area 6   |
| 09-17 805<br>38-42 793  |  |           |                                  | Area l   |
| 34 816  | W. Hissey, Blinman, S.A.<br>5730   | 78 ac.    | Lapsed                           |          |
| 790   | 6502-04 & 07 L.R. Jarrett - Lapsed, 6505-06 LRJ Box 18 Bridgewater 5165. Lease Applied. 6508 lapsed 6509-11 F.W.C. Rieck - Lease Applied | current   | 6505,06, 09-11<br>Lease Applied. |          |
| 790 790   | H.A. Schoof, Glebe Road,<br>Balhannah, S.A. 5242   | 80 ac.    | Lease Applied                    |          |
| 25 816  | Chrysoprase Gems (Aust.)<br>P/L, 89 Spring Street,<br>Bondi Junction 2022  | 38 ac.    | Lapsed                           | Area 6   |
|   |  |           |                                  |          |
|   |  |           |                                  |          |
|   |  |           |                                  | •        |
| 2   |  | •         |                                  | •        |
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| g Alexander          |                    | - 4  |                   |                                 |  |
|                      |                    |  |                   |                                 | 016  |
| CASE<br>COS.         | ON                 | REGISTERED OWNER   | AREA<br>(ha)      | VALID SUSP-<br>TO ENSION        |  |
| 26-27<br>8-29        | 793;<br>793        | RMC Minerals P/L<br>82 East Tce., Adelaide   | 160 ac.           | IAPSED                          | Area 2<br>Area 1<br>Mandarin   |
| 0                    | 795                | Fox Mining & Expl P/L 57 Hassbury St., Kensing-  | 40 ac.            | LAPSED                          | Mt. Light, assim.  |
| 1                    | 796                | RMC Minerals P/L   | 40 ac.            | LAPSED                          | Area 3 Ape   |
| 2-35                 | 793                | RMC Minerals P/L   | 160 ac.           | LAPSED                          | Area l   |
| 6-39                 | 793                | IF.  | 160 ac.           | LAPSED                          | Weedna<br>Area 1   |
| 0-44<br>3 <b>-74</b> | 793<br><b>7</b> 95 | RMC Minerals P/L 6553-56 Paltridge & Sick-   | 200 ac.           |                                 | 88990  |
| 81                   | 816                | erdick; 6557-74 Rossman<br>Lawrence C.L. & Lively A.C<br>c/- Angepina Station via<br>Copley S.A. Lapsed except | current           | LAPSED LEASE APPLIED FOR (6578) | Mt. Light,<br>assim.<br>Area 6   |
| 2-84                 | 790                | 6578 forwhich lease app-<br>lied.<br>6582-83 L.R. Jarrett  | 120 ac.           | LAPSED                          |  |
| 5-86<br>2            | 793<br>795         | 6584 F.W.C. Rieck  |                   |                                 | Boolooroo<br>Mt. Light   |
| 7-40                 | <b>7</b> 90        | P. Hayes<br>80 Seaford Rd., Seaford<br>Ellen Mary Nichols,   | 37 ac.            | LAPSED                          | J  |
|                      |                    | Box 857 G.P.O. Adelaide  | 160 ac.           | LEASE APPLIED FO                | Area - 1 Paull's   |
| -60                  | 816                | Fox Mining   | 114 ac.           | LAPSED                          | Area 6   |
| ) <del>,</del>       | 706                |  |                   |                                 |  |
| -18                  | 796                | J. Van Santen, Flat 11,<br>3 1st Drive, Ascot Park   | 38 ac.<br>114 ac. | CANCELLED<br>CANCELLED          | No mines<br>No mines   |
|                      |                    | J.P. Henderson, 17 Currie<br>St., Adelaide 5000<br>C. L. Lawrence & A.C.                                       | 40 ac.            | CANCELLED                       | No mines   |
|                      |                    | Lively   | 40 ac.            | CANCELLED                       | Area 6   |
| -27                  | · •                | 6908-13,6917,6924,6926-27<br>J. Van Santen, remainder<br>W. G. Raines, Tuesner Ave                             |                   |                                 |  |
| -49                  | 811                | Morphett Vale USAM Exploration P/L   |                   | CANCELLED                       | No mines   |
| 53                   | 811<br>811         | 208 Franklin St., Adelaide   | 120 ac.           | CANCELLED                       | Salara de la companya |
| 7006                 | 811<br>811<br>795  | . Katona, 35 Devon St.,  | 120               |                                 | \$50000000000000000000000000000000000000   |
|                      |                    |  | 120 ac.           | CANCELLED                       | Area 4   |
| -34                  | IC                 | A.C. Lively & C.L.Lawrence ancelled except 7030, for hich lease applied  | 40 ac.            | LEASE APPLIED FOR (7030)        | Area 6   |

|                   |                                 | - 5 -   |                                     |           |                             |                    |                              |
|-------------------|---------------------------------|---|-------------------------------------|-----------|-----------------------------|--------------------|------------------------------|
|                   | ×                               |   | na gaady na nene aun à thanasach na |           |                             | 0                  | 17                           |
| NSE<br>OS.        | ON NAP                          | REGISTERED OWNER  | AREA<br>(ha                         |           | VALID<br>TO                 | SUSP-<br>ENSION    | COMMENTS                     |
| 19                | 79 3                            | R.O. Sickerdick   | 39 a                                | nc.       | LAP                         | SED                | Area l<br>Plaint<br>Mt. Burr |
| 55-56             | 794                             | C.V. Fielding, 61 Leabrook<br>Drive, Rostrevor 5073   | 80 a                                | ic.       | CANCE                       | LLED               | Area 7                       |
| 58-64             | 794                             | C.V. Fielding, 61 Leabrook<br>Drive, Rostrevor, 5073  | 280 a                               | ac.       | CANCE                       | LLED               | Area 7                       |
| 04-09             | 793                             | N.B. Oliphant, 18 Leonard<br>Tce., Torrens Park 5062  | 234 a                               | ac.       | CANCE                       | LLED               | Area 3<br>no mines           |
| 1.0               | 816                             | Chrysoprase Gems (Aust)P/L  | 38 a                                | ac.       | CANCE                       | LLED               | Area 6                       |
| <b>)</b> -19      | 793                             | Australian Aquitaine P/L<br>c/- 18 Turners Dve.<br>Coromandel Valley 5051                     | 80 ā                                | e C       | CANCE                       | T.L.ED             |                              |
| 20-23             | 793                             | Coromander variey 3031  |                                     | , C.      | CANCE                       |                    | Area l                       |
| 24-28<br>59-66    | 793<br>790                      | Australian Aquitaine P/L<br>P.E. Rieck, 583 Goodwood<br>Rd., Col. Light Gardens               | 200 a                               | ac.       | CÄNCE                       | LLED               | •                            |
|                   |                                 | (7259-60 & 65) & L.R.<br>Jarrett (7261-64) & F.W.<br>Rieck (7266)                             | 320 a                               |           |                             | t in the second    | No mines                     |
| 05<br>21-22       | 793<br>796                      | F.W.C. Rieck<br>7321 W.G. Raines<br>7322 J. Van Santen  | 40 a<br>76 a                        |           | CANCE                       | LLED               | No mines Mt. Light           |
| 28-43<br>59<br>50 | 795<br>790<br>790/793           | Fox Mining P.E. Rieck E.W. Jarrett 5155   | 40 a                                |           | CANCE<br>CANCE<br>CANCE     | LLED               | No mines                     |
| )<br>37-7401      | 793<br>790                      | P.O. Box 18 Bridgewater<br>F.W.C. Rieck<br>7387-88,7393-94,7398-7400<br>P. E. & F.W.C. Rieck, | 40 a                                |           | CANCE                       | LLED               | No mines                     |
|                   |                                 | remainder E.W. & L. R.<br>Jarrett. 7387,88,94-96,99)<br>Leases applied for                    | <b>1</b> .69 a                      | ac.       | LEASE A<br>FOR 738<br>96,99 | PPLIED<br>7,88,94- |                              |
| C 7435            | 796                             | C.L. Lawrence<br>c/- Angepina Stn. Via<br>Copley  | currer                              | nt<br>ac. | LEASF                       | APPLIED            | Area 6                       |
| 96<br>7-98        | <sup>796</sup> / <sub>816</sub> | C.L. LAWRENCE   | 114 a                               |           |                             | APPLIED            | Area 6                       |
| 3                 | 790                             | A.T. Johnson, 37 Waratah<br>Pde., Narraweena 2099   | 37 a                                | ac.       | CANCE                       | LLED               |                              |
| 08-11             | 810                             | F. H. Faulding & Co. Ltd.,<br>Winwood St., Thebarton<br>5031                                  |                                     | ac.       | LEASE A                     | PPLIED FO          |                              |
| 46-47             | 794                             | 7646 V. Vidic, 286 Hindley St., Adelaide 7.47 J. Roufos, 139 Hindle                           | 40 a                                |           |                             | PPLIED FO          |                              |
| <br>]1-56         | 790                             | St. Adelaide S. Kennett, 27 Burns St.,  | 40 a                                | aç.       | CANCE                       | LLED               | Area 7                       |
|                   | 7.20                            | Hamilton Vic. Optioned to Cultus Pacific  | 240 a                               | ac.       | LEASE A                     | PPLIED FO          |                              |
| A                 |                                 |   |                                     |           | .,                          |                    |                              |

|                      |                   |   | •                |                    |                   |                |
|----------------------|-------------------|---|------------------|--------------------|-------------------|----------------|
|                      |                   | G   |                  | •                  | · ·               | 18             |
| EASE<br>OS.          | ON<br>MAP         | REGISTERED OWNER  | AREA (ha)        | VALID<br>TO        | SUSP-<br>ENSION   | COMMENTS       |
| 571<br>980<br>581-86 | 790<br>790<br>790 | F.W.C. Rieck Optioned to Cultus Pacific F.W.C. Rieck 7681 P.E. Rieck; 7682-83 F.W.C. Rieck; 7684 L.R. Jarrett; 7685-86 E.W. | 40 ac.<br>40 ac. | LEASE A<br>LEASE A | PPLIED FOR        |                |
|                      |                   | Jarrett   | 240 ac.          | CAN                | CELLED            |                |
|                      |                   |   |                  |                    |                   |                |
|                      | SCHEDU            | LE OF MINERALS LEASES - CO  | PLEY 1:25        | 0,000 S            | HEET              |                |
| .4                   | 795               | CANCELLED   |                  |                    |                   | Assim.in       |
| 3-20<br>2<br>39      | 796<br>793        | CANCELLED<br>CANCELLED<br>A.J. & E.A. Fels  | 40 ac.           | 30/6/74            | not               | E.L. 1? Area 1 |
| 8-71                 | 810               | Mern Merna via Hawker (cop<br>F.H. Faulding & Co. Ltd.,<br>G.P.O. Box 1415H, Adelaide<br>(Magnesite                         |                  | 30 /6 /93          | current           |                |
| 2-73                 | 793               | CANCELLED V. Vidic, S.M. Kristoff, K.A. Walters & E. Shelley of Andamooka Opal-fields                                       | , 100 00.        |                    |                   |                |
| 3-99                 | 790 F             | H.A. Schoof, Glebe Rd., Balhannah, S.A. 5242 Cultus Pacific N.L.  | 120 ac.          | EXPIR<br>30/6/73   |                   |                |
| 3-67                 | 806 E             | Manhattan Centre, 107 Walker St., Nth. Sydney BHP Co.Ltd., 41-47 Currie St., Adelaide                                       | 8 ha.            |                    | 12/5/73<br>7/2/80 |                |
|                      |                   |   |                  |                    |                   |                |
|                      |                   |   |                  |                    |                   | •              |
|                      |                   |   |                  |                    |                   |                |
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|                      |                   |   |                  |                    |                   | -              |

#### APPENDIX II

REVIEW OF REPORTS TO THE S.A. MINES DEPARTMENT ON EXPIRED E.L. AND S.M.L. AREAS IN THE COPLEY REGION

- \* Env.1509 (Vols 1 & 2) \* extended summary in Section B SML 481 Mt. Burr Aust. Aquitaine
  Tested Umberatana sediments below Tindelpina Member -
- Cu to 0.2% and anomalous in this horizon (tillite) copper partly detritic and partly epigenetic. Infer climate unsuitable however Paull Consolidated on red beds.

Good structural regional map and detail Mt. Burr to Paull Consolidated. Rather fine drill-log sheets.

Env.1526 - SML 429 - Mt. Burr - Andromeda Geochem sampling only, for negligible results

Env. 1329 - SML 391 - Mt. Burr - Andromeda Geochem sampling only - negligible results

- \* Env.927 SML 170 Beltana Mt. Isa Mines
  Beltana Diapir possibly host block with peripheral conglomerate (outwash). Maps of Black Feather & Red Range
  workings.
- \* Env.1162 SML Beltana Mt. Isa Continuation of Env.927. Discussion of Beltana Diapir. Well-considered geochemical sampling programme. Drilling of Red Range & Black Feather prospects, with results.

Env.1912 - SML 656 - Mt. Coffin - Southern Cross Negligible

Env.660 - SML 115/129 - Lake Torrens Area - MEPL Very ambitious exploration of over 14,000 sq. miles for Pb-Zn in basal Cambrian carbonate rocks. Encouraging initial results.

Env.961 - SML 178- Sliding Rock - EZ Geochemical stream & grid sampling. Sliding Rock vicinity only area with potential.

\* Env.1308 - SML 196 - Beltana - Carpentaria Follow-up of SML 170 (Env.1162)
Copper Queen and Black Feather drilled out.

Env.1785 - SML 609 - Mt. Bayley - Aquitaine
Mt. Bayley gossan assays Zn 951, Cu 589, Ni 179, Co 373 ppm.
+ Notes mapping round Mt. Bayley by Anaconda.
Cu background 10 ppm but creek below workings contains 4300 ppm persisting to 680 ppm 3,000 ft. below workings. Creeks draining dolerite also contain anomalous values.

Anaconda sampled Mt. Bayley dolerite & got 230 to 1370 ppm Cu. Mt. Bayley production 75 tons concentrate (from 175 tons ore) with 7-17% Cu. Seven shafts 20 - 132 ft. deep over 400 ft. length, in vertical formation 30 ft. wide. Copper as modules of malachite & azurite said to occupy a mylonitised zone on the edge of the archaeocyathed limestone Cambrian Parachilna Formation contacting diapir to east). Note useful geological map of Mt. Bayley area and syncline to east as far as Donkey Well.

Env. 766 - SML 1-2,133; Mt. Rose - Helmut Opperment Geological mapping by William Johnson Geochem by McPhar, IP by McPhar (good amomalies)

No informative reporting Anomalies strong (often no reading) and at 200-300' depth in many cases.

Env.1339 - SML 385 - Mt. Serle - Southern Cross Geochem by McPhar only Nothing markedly interesting Covers Stones Claim, Ordnapanickan Well etc.

Env.1130 - SML 283 - Sliding Rock - EZ

Good stream-sediment anomaly in lead-zinc on stratified
Cambrian Parachilna Formation and basal dolomitic members
of the Archacocyathed Limestone. These formation are rich
in surface manganese and iron oxides which absorbed zinc
to cause the anomaly.

Chip sampling of another favourable area at Black Range Spring showed lead and zinc in diapiric breccias and adjacent Oraparrina Shale and Parara Limestone. Environment not suitable for base-metal mineralisation so area relinquished.

# Env. 623, 664, 732, 773 - SML's 113, 136, 142 - Copley Regional - Anaconda

Env. 623 - Very regional geochem, Good drainage map. y
Env. 664 - Puttapa zinc defined. (Purple) shale of Bungeroo
formation carries copper but formation thin except at
Muckatoona where up to 24 ft. recorded and grade low.
Large block of pyritic dolomite near Mt. Bayley mine too
low grade (copper). Block of pyritic Sturtian tillite
in Muchatoona Diapir also too low grade (copper).

Puttapa zinc considered to be solution-redeposited from original low concentration in adjacent Ajax Limestone.

Bungeroo Formation: syngenetic copper is persistent in thin bands of green shale & dolomite in the predominantly purple shale of the Bungeroo Formation - e.g. at Mt. Friday Well shale sample 52 thin dolomite band 1.2%, but combined thickness below 2 ft. & this interrupted by many bands of barren shale. However, Cu - bearing horizon increases to 15-20 ft. over 1 mile at Muckatoona, where grey shale is extensively weathered & chip samples contain only 23-41 ppm Cu; limonitic-gossan samples recorded 240, 220 & 5500 ppm Cu. \* Follow this up - copper could have concentrated at depth.

Tindelpina Shale Member contains syngenetic copper but grade universally low.

Diapiric blocks: NW of old Mt. Bayley mine a block of pyritic dolomite ca 2000 x 650 ft. contains disseminated Cu sulphide & carbonate and calcite veins cutting it contain sulphides. Chip samples however returned only 230-1370 ppm Cu.

East of Muckatoona, a block 300 x 450 ft. of Sturtian tillite contains traces of Cu sulphide & carbonate but a relatively fresh sample returned only 0.09% Cu.

Calcite veins on the northern boundary of a small diapir SW of Patchawarra Gap contain traces of oxidised Cubearing sulphide but most veins are barren.

Old Nuccaleena: lode 12-15 ft. wide diminishing downwards, Ch py & py assoc. with coarse siderite occurs in a series of veins along faulted contact between Tapleys Hill Shale to the south & west and Marinoan shales, limestones & dolomites to the north. Limonitic gossan east of the open cut extends for about ½ a mile but chip-samples return only 3-9 ppm Cu.

#### Env.937 - SML 184A - Angepina - EZ

Monsterous geochemical programme.

#### Env.1547 - SML 428 - Beltana/Mt. Bayley - Exoil/Transoil

Large geochemical programme.

#### \* Env.1701 - SML 525 - Beltana - Carpentaria

Final checking on Red Range area, 1 percussion hole but no good results.

#### Env.928 - SML 175 - Angepina, Muckatoona - Carpentaria

Bungeroo Formation at Muckatoona changes thickness across penecontemporaneous faults - penecontemporaneous syngenetic exhalative mineralisation? Mines area and gossan shedding gold at Angepina Goldfield extensively sampled, then drilled but results completely negative - max. Cu assay at Muckatoona 0.26%. All holes reached target, though most did not reach water-table; however, drilling considered efficient.

# Env.1289 - SML 359 - Angepina/Muckatoona - Carpentaria

Deep drilling below the Angepina ironstone showed lode thinning, but still limonitic 560 ft. below surface. Area relinquished.

## Env.1650 - SML 563 - Alioota - SA Barytes

Mapping & trenching of Bungaroo Formation by Robertson Research. First time I have seen consultants recommend that an area be dropped.

### Env.1129 - SML 312 - Mt. Bayley - EZ

Geochemical programme not successful.

