

**PROPOSED T.O.E.C. III PROGRAMME**

**RINGAROOMA BAY - TASMANIA**

**E L 6 / 65**

**68\_515**

PROPOSED T.O.E.C. III PROGRAMMERINGAROOMA BAY, TASMANIA

MICROFILMED

|                |    |    |        |           |
|----------------|----|----|--------|-----------|
| FORM           | S& | CG | CC & M | D.S.M.E.  |
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| 20 MAY 1968    |    |    |        | E & IL    |
| ANSWERED       |    |    |        |           |
| DEPT. OF MINES |    |    |        |           |
| REF. NO.       |    |    |        |           |

PRINCIPLE AIM:

To upgrade the deposit.

Method:

Close spaced drilling to intersect possible "hot" spots not detected during Phase II.

SECONDARY AIM:

Prove volume to "indicated" level; increase "inferred" volume.

Method:

Limited reconnaissance drilling of bounding area.

SUBSIDIARY AIMS:

To recover seven bulk samples, each of about three to four tons weight for treatment and study in the pilot plant operated by Tasmanian Department of Mines, and for tin recovery studies by Mines Department and by Mineral Deposits Ltd., Southport, Queensland.

Continue a geological appraisal of the area with special reference to the origin of the tin mineralization by cassiterite grain size, drill core and other studies.

OCEAN MINING NL.

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PROGRAMME:

100-175 vibracorer holes to 15' approx.  
(10'-20').  
Seven bulk samples by jet lift and diver.  
Mineral dressing studies.  
Determination of probable tin recovery.  
Grain size studies to note trends.  
Attempt to assess origin of mineralization.  
Preparation of comprehensive reports.

PERSONNEL:

3 Professionals (2 Geologists, 1 Engineer)  
7 others.

DURATION:

Four months, starting early July or early  
October.

VESSEL:

60' M.V. "Barracouta", already partially  
mobilised. Three months charter with  
right of extension.

POSITIONING:

Line ends to be determined by shore based radio  
connected theodolites.

Hole positions along the line to be buoyed  
by dinghy ahead of the drilling vessel.  
Hole distance physically measured on line  
by eye from Barracouta. Checks by sextant  
to large, specially erected, shore beacons.

SAMPLE ASSAY:

XRF for Tin and Zircon only by Tasmanian  
Department of Mines Laboratory, Launceston;  
by Australian Mineral Development Laboratory,  
by Mineral Deposits, Southport, Queensland.

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## PROPOSED RINGAROOMA BAY DRILLING

## POSSIBLE LINE AND SITE CHARACTERISTICS

| Line No       | Line Length (ft) | No. of Holes | Hole Spacing |             | Water Depth (ft) | Drill Sed. Thick (ft) | Sediment Type      | Potential Penet <sup>(1)</sup> (av. ft) | To Bedrock? |
|---------------|------------------|--------------|--------------|-------------|------------------|-----------------------|--------------------|---|-------------|
|               |                  |              | 100-150 yds  | 150-300 yds |                  |                       |                    |   |             |
| 1.            | 4000             | 11           | 7            | 4           | 95               | 10                    | cs, cbls           | 10                                      | Y. 100%     |
| 2.            | 3000             | 4            | -            | 4           | 100              | 18                    | cs, cbls           | 15                                      | Y. 30%      |
| 3.            | 4000             | 9            | 5            | 4           | 100              | 16                    | ms                 | 16                                      | Y. 100%     |
| 4.            | 8000             | 20           | 13           | 7           | 95-105           | 13-23                 | cs, fa, cbls, clay | 15                                      | Y. 50%      |
| 5.            | 10000            | 11           | -            | 11          | 90-100           | 12-25                 | fs, grav           | 15                                      | Y. 30%      |
| 6.            | 3000             | 10           | 10           | -           | 100              | 10-12                 | ms, silt           | 12                                      | Y. 100%     |
| 7.            | 6000             | 13           | 8            | 5           | 90-100           | 11-30                 | ms, grav           | 15                                      | Y. 30%      |
| 8.            | 3000             | 10           | 10           | -           | 110              | 12-14                 | ms, clay           | 14                                      | Y. 100%     |
| 9.            | 10000            | 18           | 10           | 8           | 90-100           | 8-40                  | ms, gr. d          | 10                                      | Y. 10%      |
| 10.           | 5000             | 16           | 12           | 4           | 110              | 24                    | f-ves, clay        | 12                                      | NO          |
| 11.           | 4000             | 10           | 7            | 3           | 100              | 18                    | sst, clay          | 12                                      | Y. 60%      |
| 12.           | 4000             | 10           | 7            | 3           | 110              | 31                    | fs, clay           | 10                                      | NO          |
| 13.           | 8000             | 15           | 7            | 8           | 105-110          | 28-34                 | f-ms, grav         | 15                                      | NO          |
| 14.           | 5000             | 6            | -            | 6           | 125              | ?                     | ?                  | 15                                      | ?           |
| TOTALS 77,600 |                  | 163          | 96           | 67          |                  |                       |                    | Ave/hl = 13.0                           | Y. 38%      |

Notes.

1. Penetration estimate based on available drill log information and vibro-corer capability.
2. Lines 2, 4, 6, 8, 10, 11, 13 would be drilled first. The sequence for drilling for the fill-in lines would be determined following receipt of assay results for the initial lines.

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RINGAROOMA BAY BULK SAMPLESFORTIN AND ZIRCON ASSAY, TIN RECOVERY,  
METALURGICAL AND MINERALOGICAL STUDIES

| Hole No | Tin Content |             | Water Depths (ft) | Sediment Type* |
|---------|-------------|-------------|-------------------|----------------|
|         | (ppm)       | In top (ft) |                   |                |
| 2       | 91          | 9           | 84                | ms.w/grav      |
| 36      | 301         | 9           | 112               | fs w/cbls      |
| 42      | 192         | 10          | 95                | m-cs w/cbls    |
| 71      | 65          | 10          | 115               | cs             |
| 779     | 310         | 11          | 108               | csw/cbls       |
| 89      | 713         | 13          | 114               | f-ms,grav      |
| 103     | 691         | 18          | 112               | ms,silt        |

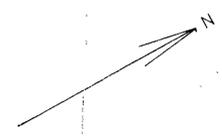
\* f      fine  
 m      medium  
 c      coarse  
 s      sand  
 cbls    cobbles  
 grav    gravel

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Bulk Samples - criteria for location

1. Situated on or near Phase III drill lines.
2. Reasonable number to reduce chance of missing "hot" ore.
3. Based on drill holes with known mineralization near surface (accessible by Jet Lift.)
4. Sediment type suitable for jetting.
5. Reasonably uniformly distributed over area.
6. Will take a vibracorer sample when on station, before jetting, to get correlation of assay results.

OCEAN MINING A.G.  
PROPOSED SAMPLING PROGRAMME  
T. O. E. C. III  
APRIL, 1968



- LIMIT OF OREBODY ON BASIS OF GRADE OF TOTAL SEDIMENT THICKNESS
- - - LIMIT OF OREBODY ON BASIS OF BETTER THAN ONE OUNCE GROUND OVER SIX FEET INTERSECTION
- ⊙ SUGGESTED LOCATION OF BULK SAMPLES

124006



SCALE  
0 2000 4000 5000 6000  
FEET

