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DEPARTMENT OF MINES — TASMANIA

# DIAMOND DRILL CORE RECORD

Hole No. 250

Drilled by GLINDEMANN & KITCHING

Core Recovery 69%

Geological Logging by — T. MUNRO

Area of Operation SAVAGE RIVER, TAS.

Location of Site 23261 N ; 20849 E

Date Commenced 14 - 11 - 1966

Date Completed 30 - 11 - 1966

Reduced Level of Site 1020.7

Bearing of Hole 90°

Dip of Hole 0' -45° ; 100' -45° ; 200' -45°

Bore Depth 264.0

AMG Co-ords: 351156 E 5405290 N.

Ref N° 2146

## DRILL RECORD

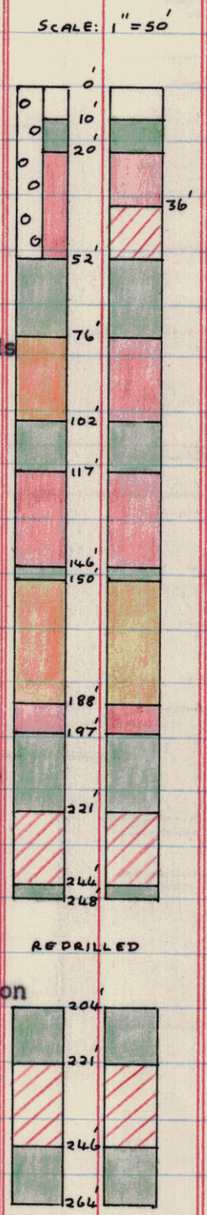
| Date 1966 | From | To | Core Recov. |
|---|---|---|---|
| 14/11 | 0.0 | 16.2 | 7.6 |
| 15/11 | 16.2 | 36.5 | 19.2 |
| 16/11 | 36.5 | 60.2 | 20.0 |
| 17/11 | 60.2 | 76.0 | 7.7 |
| 18/11 | 76.0 | 103.3 | 18.5 |
| 19/11 | 103.3 | 112.7 | 7.4 |
| 21/11 | 112.7 | 137.3 | 12.7 |
| 22/11 | 137.3 | 165.1 | 17.8 |
| 23/11 | 165.1 | 201.6 | 29.5 |
| 24/11 | 201.6 | 221.0 | 12.6 |
| 25/11 | 221.0 | 228.8 | 1.7 |
| 26/11 | 228.8 | 242.8 | 12.3 |
| 28/11 | 242.8 | 248.0 | 3.8 |
| | REDRILLED. | | |
| 28/11 | 204.0 | 208.8 | 4.8 |
| 29/11 | 208.8 | 248.5 | 23.9 |
| 30/22 | 248.5 | 264.0 | 12.6 |
| | END OF HOLE | | |

## GEOLOGICAL LOG

| From | To | Description |
|---|---|---|
| 0.0 | 10.0 | CEMENTED SCREE<br>Ironstone pebbles with ferruginous cement. |
| 10.0 | 20.0 | AMPHIBOLITE CLAY<br>Once massive, yellow to red-brown with ferruginous weathering rings. Minor disseminated magnetite. |
| 20.0 | 52.0 | MAGNETITE (RICH)<br>Massive, quite oxidised with many voids formed by leaching. Abundant hematite and limonite. Weakly magnetic. |
| 52.0 | 76.0 | AMPHIBOLITE<br>Green puggy sheared clay with sandy magnetite zone 55.0 - 59.0. |
| 76.0 | 102.0 | MAGNETITE (MEDIUM)<br>Fine - grained, slightly oxidised with moderate interstitial tremolite slightly weathered to a white clay. Fairly broken. |
| 102.0 | 117.0 | AMPHIBOLITE<br>Fine - grained, broken with moderate epidote with some thin veins of a vitreous iron silicate mineral. |
| 117.0 | 146.0 | MAGNETITE (RICH)<br>Fairly fine-grained, fairly broken with moderate fibrous tremolite - actinolite and pyrite 4" pure tremolite at lower contact |

## GEOLOGICAL SECTION

Core Sample




## ASSAY RESULTS

No Cores held.

| Sample Nos From Ft. | To Ft. | CRUDE %Fe | CONCENTRATE (-325 Mesh) Wt. Recovery | %Fe | %$SiO_2$ | %Ni | %$TiO_2$ |
|---|---|---|---|---|---|---|---|
| 0 | 10 | Scree | | | | | |
| 10 | 20 | (Amph) | | | | | |
| 20 | 36 | 63.80 | 12.48 | 68.92 | 0.59 | 0.047 | 0.45 |
| 36 | 52 | 52.58 | 24.80 | 67.62 | 0.33 | 0.038 | 0.62 |
| 52 | 76 | (Amph) | | | | | |
| 76 | 89 | 55.26 | 65.67 | 70.30 | 0.33 | 0.042 | 0.55 |
| 89 | 102 | 58.52 | 76.55 | 70.62 | 0.41 | 0.027 | 0.57 |
| 102 | 117 | (Amph) | | | | | |
| 117 | 132 | 59.98 | 76.22 | 70.44 | 0.46 | 0.043 | 0.69 |
| 132 | 146 | 58.84 | 77.58 | 70.85 | 0.52 | 0.023 | 0.39 |
| 146 | 150 | (Amph.) | | | | | |
| 150 | 169 | 38.14 | 42.29 | 69.71 | 1.18 | 0.058 | 0.61 |
| 169 | 188 | 37.17 | 40.30 | 69.15 | 1.50 | 0.069 | 0.38 |
| 188 | 197 | 55.19 | 69.45 | 70.69 | 0.45 | 0.042 | 0.49 |
| 197 | 221 | (Amph.) | | | | | |
| 221 | 232 | 52.83 | 68.24 | 70.59 | 0.57 | 0.033 | 0.43 |
| 232 | 244 | 48.06 | 60.38 | 70.02 | 0.88 | 0.034 | 0.51 |
| 244 | 248 | (Amph) | | | | | |

Hole redrilled from 204 ft.

### LEGEND

| | | | |
|---|---|---|---|
| RICH | > 55%Fe | MEDIUM LEAN | > 22%Fe |
| MEDIUM RICH | > 44%Fe | LEAN | > 11%Fe |
| MEDIUM | > 33%Fe | AMPHIBOLITE | < 11%Fe |
| | | ZONE OF OZIDATION | |

| DRILL RECORD | | | | GEOLOGICAL LOG | | | GEOLOGICAL SECTION | |
|---|---|---|---|---|---|---|---|---|
| Date | From | To | Core Recov. | From | To | Description | Core | Sample |
| | | | | 117.0 | 146.0 | Cont.. with minor pyrite and a little chalcopyrite. | | |
| | | | | 146.0 | 150.0 | AMPHIBOLITE<br>Clayey, sheared, chloritic and broken (Delta Angle Shearing = 10°). | | |
| | | | | 150.0 | 188.0 | MAGNETITE (MEDIUM)<br>Alternating zones of lean banded and medium - rich ore Banded ore has magnetite - pyrite stringers throughout a fine-grained host (Delta Angle Banding = 0° - 30°). Rich ore is medium - grained with moderate light green serpentine. | | |
| | | | | 188.0 | 197.0 | MAGNETITE (RICH)<br>Fine to medium grained, fairly broken with moderate talc and amphibole. | | |
| | | | | 197.0 | 221.0 | AMPHIBOLITE<br>Fine - grained, broken in parts with epidote and hematite veinlets and many incipient fractures. | | |
| | | | | 221.0 | 244.0 | MAGNETITE (MEDIUM-RICH)<br>Very broken to 240.0, fine to medium - grained with fair amounts of interstitial amphibole fairly massive 240.0 - 244.0, slightly banded (Delta Angle = 50°) with moderate pyrite. | | |
| | | | | 244.0 | 248.0 | AMPHIBOLITE<br>Fine-grained, fairly broken with chlorite on fracture planes. | | |
| | | | | REDRILLED | | | | |
| | | | | 204.0 | 221.0 | AMPHIBOLITE<br>Fine-grained, fairly broken with epidote and hematite veinlets. | | |
| | | | | 221.0 | 246.0 | MAGNETITE (MEDIUM-RICH<br>As for previous ore zone. | | |

| ASSAY RESULTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | CRUDE | | | CONCENTRATOR (-325 Mesh) | | |
| Sample From Ft. | From To Ft. | %Fe | Wt. Recovery | %Fe | %$SiO_2$ | %Ni | %$TiO_2$ |
| 204 | 221 | (Amph) | | | | | |
| 221 | 233 | 50.22 | 64.86 | 70.27 | 0.65 | 0.030 | 0.43 |
| 233 | 246 | 45.95 | 58.16 | 69.86 | 1.03 | 0.029 | 0.50 |
| 246 | 264 | (Amph) | | | | | |

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| DRILL RECORD | | | | GEOLOGICAL LOG | | | GEOLOGICAL SECTION | | ASSAY RESULTS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | From | To | Core Recov. | From | To | Description | Core | Sample | Sample No. | From | To | | | | | | | |
| | | | | 246.0 | 264.0 | AMPHIBOLITE<br>Fine-grained, fairly massive with chlorite and hematite on fractures.<br>Fine - grained altered serpentine (?) -<br>Rich lean zone 253.0 - 256.0.<br><br>END OF HOLE | | | | | | | | | | | | |