

## **Appendix 8**

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### **Target Summaries**

**(Blackjacks, Mariposa, Sunny  
Corner-Bannockburn, Pyramid, Tom Creek,  
Westerway, Leatherwood, Oceana)**

# BLACKJACKS

- Gordon Limestone dips steeply west.

## DIAMOND DRILLING

- **DD95DB110**
  - Siderite alteration at Lower Gordon Group Limestone contact (2.9m @ 0.39%Zn).
  - Siderite alteration at Upper Gordon Group Limestone contact (2.7m @ 0.83%Zn).
  - >30m dolomite breccia associated with siltstone (up to 0.3%Zn over 3.6m).
- **DD95DB111**
  - Siderite alteration at Lower Gordon Group Limestone contact (~50m).
  - Sphalerite and calcite breccia zone (0.3m @ 4.46%Zn, 1.84%Pb).
- **DD95DB112**
  - Poor grade.

## AIRCORE DRILLING

- 109 Aircore drillholes, BEST:
  - **DB11:** 14m@1.4%Zn.
  - **DB35:** 3m@1.6%Zn.
  - **DB78:** 3m@1.6%Zn.
  - **DB99:** 3m@1.9%Zn.
  - **DB11:** 1.5m@2.2%Zn (ended in mineralisation).
- Wacker sampling also undertaken.

# MARIPOSA

- Summary includes South Mariposa

## DIAMOND DRILLING

- **DM209:** 7.7m @ 2.1%Zn, <0.1%Pb, <5 g/t Ag.
- **DM210:** 5.4m @ 1.4%Zn, 1.7%Pb, 25 g/t Ag.
- **DM211:** 1.8m @ 9.8%Zn, 6.5%Pb, 107 g/t Ag.
- **DM212:** 0.7m @ 3.8%Zn, 5.4%Pb, 45 g/t Ag.

## AIRCORE DRILLING

- **DM70:** 10m @ 4.1%Zn, 2.5%Pb, 19 g/t Ag.
- **DM13:** 6m @ 4.1%Zn, 1.5%Pb, 16 g/t Ag.
- **DM97:** 8m @ 5.0%Zn, 2.9%Pb, 60 g/t Ag.
- **DM102:** 8m @ 18.5%Zn, 16.9%Pb, 231 g/t Ag.
- **DM118:** 8m @ 4.6%Zn, 6.5%Pb, 95 g/t Ag.
- **DM150:** 6m @ 3.5%Zn, 2.5%Pb, 88 g/t Ag.
- **DM199:** 8m @ 4.6%Zn, 3.2%Pb, 185 g/t Ag.

## COSTEANING

- 14m @ 3.0%Zn
- 8m @ 6.2%Zn, 395 g/t Ag occurring at lower zone contact with the Dundas Group.
  
- Wacker sampling also undertaken.

# SUNNY CORNER-BANNOCKBURN

## DIAMOND DRILLING

- **DD95DS97**
  - Extensive dolomitisation, possibly ferroan dolomite including broad intense breccia zones.
  - Major zones of siderite alteration.
  - Best intercept: 1.4m @ 1.02%Zn and 6.13%Pb from 182.6m.
  
- **DD95DS98**
  - High-grade Zn: 0.92m @ 10%Zn from 310.8m and 0.82m @ 6.2%Zn from 313.0m – both intercepts are associated with the siltstone unit of the Gordon Group.
  - Shear-vein type mineralisation.
  - Major clay at surficial contact of the Gordon Group. Elevated Zn: 2.85m @ 0.52%Zn (Pb 0.12% from 75.15m).
  
- **DD95DS99**
  - Best: 1.6m@4.99%Zn 0.8%Pb, 5.7 g/t Ag (114.5m).
  
- **DD95DS100**
  - Poor grade
  
- **DD95DS101**
  - Best: 0.2m@4.2%Zn 9.2%Pb, 27.3 g/t Ag (121.3m).

## AIRCORE DRILLING

- **DS37:** 6m @ 3.2%Zn, 1.8%Pb, 23 g/t Ag.
- **DS38:** 15m @ 3.6%Zn, 2.2%Pb, 18 g/t Ag.
- **DS53:** 3m @ 5.4%Zn, 4.8%Pb, 23 g/t Ag.
- **DS68:** 12m @ 1.3%Zn, 6.7%Pb, 27 g/t Ag.

## COSTEANING

- 22m @ 3.9%Zn, including 6m@9.7%Zn, 74 g/t Ag.

# PYRAMID

## DIAMOND DRILLING

- **DD95ZP63**
  - Designed to test lower sandstone/limestone contact close to siderite alteration recorded in AC94ZP43. Assay of clay at contact disappointing: 0.21%Zn for 1.5m from 210m.
- **DD95ZP65**
  - Small-scale galena and sphalerite veins between 40.9 and 41.2m, giving maximum values of 1.4%Pb and 0.4%Zn.
- **2WP27 (winkie)**
  - Drilling failed to intersect primary limestone unit. Best: 0.4m@5.2%Zn 5.0%Pb.

## AIRCORE DRILLING

- A total of 94 (32+62) aircore holes were drilled.

## COSTEANING

- **1750N:** 6m @ 2.1%Zn, 7.2%Pb.
- Wacker sampling also undertaken.

## **TOM CREEK**

- Wacker sampling undertaken.

## **WESTERWAY**

- Wacker sampling undertaken.

## **LEATHERWOOD**

### **AIRCORE DRILLING**

- A total of 53 aircore holes were drilled on two traverses. Best:
  - AC95DL7: 3m @ 0.15% Zn.
  - AC95DL8: 6m @ 0.1% Zn.
  - AC95DL53: 2m @ 0.1% Zn (minor siderite alteration inferred).

# OCEANA LEAD-ZINC-SILVER DEPOSIT

## **INTRODUCTION**

The Oceana Pb-Zn-Ag deposit is located within the Zeehan mineral field, approximately 4km south of the Zeehan township, western Tasmania. Intensive investigation of the Ordovician (434-490 million years) Gordon Group Limestone by companies including the Oceana Silver Mining Company, Oceana Proprietary Company Ltd., North Broken Hill Holdings Ltd. and Amoco Minerals Australia Pty. Ltd. between 1890 and the present has resulted in the delineation of a significant Pb-Zn-Ag resource, peripheral to the old Oceana workings.

## **GEOLOGICAL SETTING**

The deposit occurs within the middle portion of the 500m thick Gordon Group Limestone and is overlain by the Silurian (410-434 million years) Crotty Quartzite and underlain by both the Ordovician Mt. Zeehan Conglomerate and Moina Sandstone.

## **DEPTH OF MINERALISATION**

Between 1954 and 1960 the mine was worked on five (5) main production levels at depths of: 46, 91, 128, 165 and 195 metres. The resource extends both to the north and south of the old workings and persists to a maximum known depth of some 350m (185m below the deepest production level).

## **DELINEATED RESOURCE**

By late 1982 an extensive exploration programme (conducted by Amoco Minerals Australia Pty. Ltd) of geochemical sampling, various geophysical techniques, costeaning and the drilling of 13 diamond drill holes, resulted in the delineation of a resource comprising 4Mt @ 19.4% Pb, 4.0% Zn and 106 g/t Ag (see significant intersections below):

- ❑ 2m @ 4.6% Pb, 0.2% Zn and 53g/t Ag
- ❑ 4m @ 4.2% Pb, 0.1% Zn and 45g/t Ag
- ❑ 2m @ 12.0% Pb, 11.0% Zn and 70g/t Ag
- ❑ 11m @ 12.0% Pb, 4.0% Zn and 89g/t Ag
- ❑ 5m @ 22.3% Pb, 1.99% Zn and 323g/t Ag

- 1m @ 2.2% Pb, 0.3% Zn and 13g/t Ag
- 2m @ 4.2% Pb, 0.3% Zn and 55g/t Ag

The above intersections were the results obtained from three (3) underground diamond drill holes.

### **ORE DEPOSIT GENESIS**

The characteristics of the Oceana deposit broadly resemble those of the sediment hosted stratiform (layered) class of deposit. The mineralisation contained within the Oceana deposit is thought to have been emplaced during the Ordovician.

**N.B. The information contained within this overview was taken directly from the following source:**

- Taylor, S. and Mathison, I.J. 1990. *Oceana lead-zinc-silver deposit*, In: *Geology of the Mineral Deposits of Australia and Papua New Guinea* (Ed. F.E. Hughes), pp. 1253-1256 (The Australasian Institute of Mining and Metallurgy: Melbourne).