

# 54756

Report date 01/05/1998

Period 04/05/1994 - 03/05/1998

**Report Type:** Final Surrender

**Project Name:** Lake Roe

**Operator(s):** WESTEX RESOURCES PTY LTD

**ABSTRACT**

Auger drilling of the pedogenic carbonate horizon was completed on the Rocky Dam/Lake Roe project in 1997 to 1998 but the results were disappointing. A coherent > 20 ppb Au anomaly was outlined immediately east of the Rocky Dam East prospect. No additional work was carried out on the lease and it was surrendered. Prospects: Lake Roe Assays: As; Au; Cu

# 54756

Report date 01/03/1998

Period 13/05/1994 - 08/04/1998

**Operator(s):** EDEN CREEK PTY LTD

**ABSTRACT**

E28/504 formed part of the Lake Roe project and was located 120 km east of Kalgoorlie. It was located in a structural corridor bounded on the eastern side by the Keith-Kilkenny lineament. Work completed on the relinquished portion of the tenement included geological mapping, lag sampling and RAB and RC drilling. There are no comments on the results of sampling or drilling. A portion of the tenement was surrendered. Prospects: Lake Roe Assays: Au

**DRILLING SUMMARY**

RC drilling 40 holes for 2142m

Rotary drilling 315 holes for 3976m

**A No.:** 54005

**Title:** Final Report on Exploration Licence E28/521 Lake Roe, Western Australia, covering the period 8th March 1994 to 20th February 1998.

**Author(s):** TAYLOR K S

**Report Date:** 01/02/1998 12:00:00 AM

**Period:** 08/03/1994 12:00:00 AM - 20/02/1998 10:25:00 AM

**Report Type:** Final Surrender

**Project Name:** Lake Roe

**Operator(s):** PALADIN RESOURCES NL

**ABSTRACT**

The final report on the Lake Roe gold project E21/521 covered the period 1994 to 1998. Work completed included geological mapping, rock chip, stream sediment and soil sampling and RAB drilling. The highest value recorded was 0.007 g/t Au. Prospects: Lake Roe Assays: As; Au; Cu; Pb; Zn

**DRILLING SUMMARY**  
Rotary drilling 15 holes for 444m

**REPORT INFORMATION**

**A No.:** 53718  
**Title:** Partial Surrender Report on Exploration Licence E28/495 Lake Roe covering the period 24th November 1993 to 23 December 1997.  
**Author(s):** TAYLOR K S  
**Report Date:** 01/02/1998 12:00:00 AM  
**Period:** 01/01/1997 12:00:00 AM - 01/01/1753 12:00:00 AM  
**Report Type:** Partial Surrender  
**Project Name:** Lake Roe  
**Operator(s):** EDEN CREEK PTY LTD

**ABSTRACT**

E28/495 was part of the Lake Roe project. Extensive soil, lag and auger sampling together with some rock chip sampling was carried out on the relinquished portions of the tenement in the period 1993 to 1997. No results were discussed in the report. Prospects: Christmas Gift; Lake Roe Assays: As; Au; Cu; Pb

**DRILLING SUMMARY**  
Auger drilling 55 holes

**A No.:** 53717  
**Title:** Partial Surrender Report on Exploration Licence E28/251 Lake Roe covering the period 08 March 1994 to 10 October 1997.  
**Author(s):** TAYLOR K S  
**Report Date:** 01/02/1998 12:00:00 AM  
**Period:** 01/01/1997 12:00:00 AM - 01/01/1753 12:00:00 AM  
**Report Type:** Partial Surrender  
**Project Name:** Lake Roe  
**Operator(s):** PALADIN RESOURCES NL

**ABSTRACT**

This partial surrender report on the Lake Roe project, E28/521, covers work completed during 1994 to 1997. The tenement was considered prospective for gold mineralisation. Work completed included geological mapping, geophysical interpretation and RAB drilling. The RAB holes returned no significant Au values, with a best intersection of 4 m at 0.004 g/t Au from 4 m. Prospects: Hancock Hill; Lake Roe Assays: Au

**DRILLING SUMMARY**  
Rotary drilling 2 holes for 66m

**A No.:** 53389  
**Title:** Annual Report on Exploration Carried out During the Period

24/11/1996 to 23/11/1997 Lake Roe Project E28/495,502,521  
**Author(s):** MARSHALL J , WRIGHT P  
**Report Date:** 01/01/1998 12:00:00 AM  
**Period:** 01/11/1996 12:00:00 AM - 01/11/1997 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** NEWCREST MINING LTD

#### ABSTRACT

The Lake Roe Project, E28/495,502,521, was located 100km east of Kalgoorlie. The tenement lay south of a northwest to south flexure in the Keith-Kilkenny and Celia Lineaments and contained rocks from the Mulgabbie and Gundockerta Formations. Work completed during 1996 to 1997 comprised soil and rock chip sampling and RAB drilling. At Rocky Dam East, RAB drilling of NW trending magnetic structures returned intersections of 4 m of 38 ppb Au from 28 m and 4 m of 35 ppb Au from 28 m associated with workings close to a sediment/mafic contact. Auger drilling and sampling of pedogenic carbonate soils in the centre of the tenements outlined 2 coherent >20 ppb Au anomalies east and south of Rocky Dam. The low order auger anomalies suggested that there was only potential for small-scale mineralisation. No further reports were submitted and the tenement was surrendered. Prospects: Rocky Dam East; Lake Roe Assays: As; Au; Cu; Pb; Zn

#### DRILLING SUMMARY

Auger drilling 1212 holes  
Rotary drilling 31 holes for 894m

#### REPORT INFORMATION

**A No.:** 52982  
**Title:** Lake Roe Project, Annual Report for the period 11th November 1996 to 10th November 1997, E28/668.  
**Author(s):** HYDE R I  
**Report Date:** 01/12/1997 12:00:00 AM  
**Period:** 01/11/1996 12:00:00 AM - 01/11/1997 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** ABERFOYLE RESOURCES LTD

#### ABSTRACT

E28/668 was part of the Lake Roe project and was located 130 km east of Kalgoorlie in the Northeast Coolgardie Mineral Field. The tenement covered part of the Pinjin greenstone belt that occurred in the Edjudina Structural Domain and was bounded by the Claypan and Pinjin faults. The tenement was underlain by Archaean monzogranite with hornfelsed felsic to intermediate volcanics around the margin. Exploration in 1996 to 1997 included RAB drilling which tested the granite/greenstone contact but failed to record any significant results. The remainder of the tenement was underlain by granite. No further work was carried out after this report and the tenement was surrendered. Prospects: Lake Roe Assays: As; Au

DRILLING SUMMARY  
Rotary drilling 6 holes for 246m

REPORT INFORMATION

**A No.:** 49905  
**Title:** Annual Report on Exploration Licence 28/495 Lake Roe Western Australia Covering the Period 24 November 1995 to 23 November 1996  
**Author(s):** TAYLOR K S  
**Report Date:** 01/01/1997 12:00:00 AM  
**Period:** 01/11/1995 12:00:00 AM - 01/11/1996 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** EDEN CREEK PTY LTD

ABSTRACT

Work on the Lake Roe project, E28/495, in 1995 to 1996 comprised soil sampling and assaying using the Mobile Metal Ion(MMI) technique, lag sampling for comparison and re-sampling of drill holes. There are no comments on the results. Prospects: Lake Roe Assays: Ag; Au; Co; Ni; Pd

REPORT INFORMATION

**A No.:** 48105  
**Title:** Lake Roe Project, Annual Report for the period 4th May 1995 to 3rd May 1996, E28/502.  
**Author(s):** TAYLOR K S  
**Report Date:** 01/05/1996 12:00:00 AM  
**Period:** 01/05/1995 12:00:00 AM - 01/05/1996 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** WESTEX RESOURCES PTY LTD

ABSTRACT

Exploration on the Rocky Dam/Lake Roe lease in 1995 to 1996 comprised geological mapping, aeromagnetic interpretation, rock chip, soil and lag sampling. No significant assays were recorded from the sampling. All results were less than 10 ppb. Prospects: Lake Roe Assays: Ag; Au; Co; Ni; Pd

REPORT INFORMATION

**A No.:** 47575  
**Title:** Lake Roe Project, Annual Report for period 8th March 1995 to 7th March 1996, E28/521.  
**Author(s):** TAYLOR K S  
**Report Date:** 01/04/1996 12:00:00 AM  
**Period:** 01/03/1995 12:00:00 AM - 01/03/1996 12:00:00 AM  
**Report Type:** Annual

**Project Name:** Lake Roe  
**Operator(s):** EDEN CREEK PTY LTD

**ABSTRACT**

From 1995 to 1996, the Lake Roe gold project E28/521 was explored using lag sampling to follow-up on the previous year's anomalous drainage sample. The highest value returned was 0.002 g/t Au, which was considered disappointing. Prospects: Lake Roe Assays: Au

**REPORT INFORMATION**

**A No.:** 46993  
**Title:** Annual Report ,E28/495 Lake Roe Project, for the period 24/11/194 to 23/11/1995  
**Author(s):** TAYLOR K S  
**Report Date:** 01/02/1996 12:00:00 AM  
**Period:** 01/11/1994 12:00:00 AM - 01/11/1995 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** EDEN CREEK PTY LTD

**ABSTRACT**

The Lake Roe Project, E28/495, was located 100km east of Kalgoorlie. The tenement lay within a structural corridor intruded by granitoids and bounded by the southern extension of the Keith-Kilkenny Lineament and was thought to contain part of the Mulgabbie and Gundockerta Formations. Work completed during 1994 to 1995 comprised geological mapping, soil, rock chip and lag sampling, and RAB and RC drilling. The best intercept was 1m of 3.34g/t Au from 26m (EOH). No conclusions or recommendations were stated and the tenement was surrendered. Prospects: Lake Roe Assays: Au

**REPORT INFORMATION**

**A No.:** 45165  
**Title:** Lake Roe Project, Annual Report Exploration Licence E28/504 covering the period 13/05/1994 to 12/05/1995.  
**Author(s):** TAYLOR K S  
**Report Date:** 01/08/1995 12:00:00 AM  
**Period:** 01/05/1994 12:00:00 AM - 01/05/1995 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** EDEN CREEK PTY LTD

**ABSTRACT**

The Swan Lake lease E28/504 was part of the Lake Roe project that was situated 120 km due east of Kalgoorlie on the Kurnalpi 1:250,000 map sheet. The Lake Roe project was located within a structural corridor bounded on the eastern side by the southern extension of the Keith- Kilkenny lineament. It also included the contact between the mafic succession of the Mulgabbie Formation and the overlying predominantly felsic volcanoclastic Gundockerta Formation. This contact was commonly marked by chert and banded iron formation and was considered prospective for gold mineralisation. Work completed in 1994 to 1995 comprised aeromagnetic interpretation, geological mapping,

rock chip and lag sampling and RAB drilling. The drilling outlined several gold anomalies with assays up to 25 ppb Au. These were followed up by lag sampling that recorded a peak assay of 11 ppb Au. Prospects: Swan Lake; Eden Creek Assays: Au

#### DRILLING SUMMARY

Rotary drilling 284 holes for 2539m

#### REPORT INFORMATION

**A No.:** 44291  
**Title:** Lake Roe Project, Annual Report on Exploration Licence E28/521 covering the period 8th March 1994 to 7th March 1995.  
**Author(s):** TAYLOR K S  
**Report Date:** 01/04/1995 12:00:00 AM  
**Period:** 01/03/1994 12:00:00 AM - 01/03/1995 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** EDEN CREEK PTY LTD

#### ABSTRACT

The Lake Roe gold project, E28/521 was situated 100 km east of Kalgoorlie. The tenement covered the contact between predominantly volcanoclastic Gundockerta Formation and the mafic Mulgabbie Formation. Work completed in 1994 to 1995 consisted of geophysical interpretation, geological mapping, stream sediment, lag and rock chip sampling. One stream sediment sample of 55 ppb Au was generated. Prospects: Lake Roe Assays: Au

#### REPORT INFORMATION

**A No.:** 43566  
**Title:** Lake Roe Project, Annual Report Exploration Licence E28/495 for the period 24th November 1993 to 23rd November 1994.  
**Author(s):** TAYLOR K S  
**Report Date:** 01/02/1995 12:00:00 AM  
**Period:** 01/11/1993 12:00:00 AM - 01/11/1994 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** EDEN CREEK PTY LTD

#### ABSTRACT

E28/495 was part of the Lake Roe project that was located 100 km due east of Kalgoorlie on the Kurnalpi 1:250,000 map sheet. The project was located in a structural corridor intruded by granitoids and bounded on the eastern side by the southern extension of the Keith- Kilkenny lineament. It also covered the contact between the predominantly felsic volcanoclastic Gundockerta Formation and the underlying dominantly mafic succession of the Mulgabbie Formation. This contact zone commonly contained cherts and banded iron formation and was considered prospective for gold mineralisation. Work carried out on the lease in 1993 to 1994 comprised aeromagnetic interpretation, geological mapping, soil and lag sampling. Two areas, the Guildford and Kym's prospects were soil sampled and returned low level gold assays attributed to the edge of the laterite plateau and areas of

quartz veins respectively. The lag sampling returned several gold anomalies in the central northern part of the lease with assays up to 203 ppb being recorded. The aeromagnetics suggested the area contained a major discontinuity with possible cross structures.  
Prospects: Lake Roe Assays: Au

#### REPORT INFORMATION

**A No.:** 34230  
**Title:** Lake Roe Project, Final Surrender Report to 9th May 1991, E28/154.  
**Author(s):** MCALISTER M  
**Report Date:** 01/07/1991 12:00:00 AM  
**Period:** 10/05/1986 12:00:00 AM - 09/05/1991 11:59:59 PM  
**Report Type:** Final Surrender  
**Project Name:** Lake Roe  
**Operator(s):** POSEIDON LTD

#### ABSTRACT

Group-Level Summary for Group: M3064/9 (ITEM 5742) Group Title: Lake Roe gold exploration A Numbers in Group: 20968, 24062, 28429, 31037, 34230 Exploration for gold in the Karonie greenstone belt, south of Lake Roe. Local geology comprises, in the west, a N-S sequence of predominantly fine to coarse-grained amphibolite and turbiditic metasedimentary rocks, with minor felsic to intermediate volcanics, bif and ultramafic rocks. Lake sediments and laterite occur to the east. Regional stream sediment and soil surveys with bleg analyses gave poor results. Values up to 5ppb bleg were considered statistically anomalous. Mapping and rock chipping in areas of outcrop failed to locate any significant or anomalous zones. Some small former workings NW of the area yielded up to 0.13ppm Au in ferruginous quartz-vein material. A RAB drilling exercise was conducted over one area defined as a structural target from airborne magnetics. This produced distinctly anomalous results (3m at 0.6ppm Au) but no discrete zone of anomalism could be defined. An orientation program of soil bleg sampling and auger sampling was carried out, but proved unsuccessful due to thick sand cover in the area. A recommendation was made to relinquish the area, **largely due to the deemed expense of any further exploration effort**. Prospects: Lake Roe Assays: Au

#### DRILLING SUMMARY

Rotary drilling 51 holes for 1573m

#### REPORT INFORMATION

**A No.:** 31037  
**Title:** Lake Roe Project, 1989 Annual Report, July 1990, E28/154.  
**Author(s):** UPTON K  
**Report Date:** 01/09/1990 12:00:00 AM  
**Period:** 01/01/1989 12:00:00 AM - 01/01/1990 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** POSEIDON LTD

#### ABSTRACT

Group-Level Summary for Group: M3064/9 (ITEM 5742) Group Title: Lake Roe gold exploration A Numbers in Group: 20968, 24062, 28429, 31037, 34230 Exploration for gold

in the Karonie greenstone belt, south of Lake Roe. Local geology comprises, in the west, a N-S sequence of predominantly fine to coarse-grained amphibolite and turbiditic metasedimentary rocks, with minor felsic to intermediate volcanics, bif and ultramafic rocks. Lake sediments and laterite occur to the east. Regional stream sediment and soil surveys with bleg analyses gave poor results. Values up to 5ppb bleg were considered statistically anomalous. Mapping and rock chipping in areas of outcrop failed to locate any significant or anomalous zones. Some small former workings NW of the area yielded up to 0.13ppm Au in ferruginous quartz-vein material. A RAB drilling exercise was conducted over one area defined as a structural target from airborne magnetics. This produced distinctly anomalous results (3m at 0.6ppm Au) but no discrete zone of anomalism could be defined. An orientation program of soil bleg sampling and auger sampling was carried out, but proved unsuccessful due to thick sand cover in the area. A recommendation was made to relinquish the area, largely due to the deemed expense of any further exploration effort. Prospects: Lake Roe Assays: Au

#### REPORT INFORMATION

**A No.:** 30966  
**Title:** Lake Roe Project, Partial Surrender Report, May 1990, E28/154.  
**Author(s):** UPTON K  
**Report Date:** 24/05/1990 12:00:00 AM  
**Period:** 01/01/1989 12:00:00 AM - 01/01/1753 12:00:00 AM  
**Report Type:** Partial Surrender  
**Project Name:** Lake Roe  
**Operator(s):** POSEIDON LTD

#### ABSTRACT

Group-Level Summary for Group: M3064/7 (ITEM 4261) Group Title: Lake Roe gold exploration A Numbers in Group: 30966 Exploration for gold over an Archaean greenstone belt, consisting of clastic-sedimentary and felsic-igneous rocks of the Gundockerta Formation and predominantly mafic/ultramafic rocks of the Mulgabbie Formation. Proterozoic dykes and younger granites intrude the area. There are minor old gold workings on the property. Exploration work over the relinquished area included an aerial magnetic survey. Two zones of interest were designated. Stream sediment sampling (BLEG analysis) was carried out. Eight samples out of 37 were considered anomalous. Rock chip sampling of old workings gave a single anomalous value (0.13 ppm gold). Resampling of RAB cuttings, left by a previous explorer, yielded only low values. A second phase of rock chip sampling was carried out. Values obtained were not considered worth following up. "On review of all available data, the western portion of the EL is deemed to be thoroughly tested for anomalous gold and shows the least economic prospectivity." Prospects: Lake Roe Assays: Au

#### REPORT INFORMATION

**A No.:** 24062  
**Title:** Karonie Project, Annual report for 1988, E28/154  
**Author(s):**  
**Report Date:** 10/07/1988 12:00:00 AM  
**Period:** 01/01/1987 12:00:00 AM - 01/01/1988 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe - Karonie



**Operator(s):** FREEPORT OF AUSTRALIA INC

#### ABSTRACT

Group-Level Summary for Group: M3064/9 (ITEM 5742) Group Title: Lake Roe gold exploration A Numbers in Group: 20968, 24062, 28429, 31037, 34230 Exploration for gold in the Karonie greenstone belt, south of Lake Roe. Local geology comprises, in the west, a N-S sequence of predominantly fine to coarse-grained amphibolite and turbiditic metasedimentary rocks, with minor felsic to intermediate volcanics, bif and ultramafic rocks. Lake sediments and laterite occur to the east. Regional stream sediment and soil surveys with bleg analyses gave poor results. Values up to 5ppb bleg were considered statistically anomalous. Mapping and rock chipping in areas of outcrop failed to locate any significant or anomalous zones. Some small former workings NW of the area yielded up to 0.13ppm Au in ferruginous quartz-vein material. A RAB drilling exercise was conducted over one area defined as a structural target from airborne magnetics. This produced distinctly anomalous results (3m at 0.6ppm Au) but no discrete zone of anomalism could be defined. An orientation program of soil bleg sampling and auger sampling was carried out, but proved unsuccessful due to thick sand cover in the area. A recommendation was made to relinquish the area, largely due to the deemed expense of any further exploration effort. Prospects: Lake Roe Assays:

21850

**Title:** Lake Roe Project, Non-statutory Report: Partial Relinquishment Report for the period ending 16/02/1987, E28/39.

**Author(s):** SMYTH E

**Report Date:** 01/10/1987 12:00:00 AM

**Period:** 01/01/1987 12:00:00 AM - 01/01/1753 12:00:00 AM

**Report Type:** Non-statutory

**Project Name:** Lake Roe

**Operator(s):** BHP MINERALS PTY LTD

#### ABSTRACT

Group-Level Summary for Group: M3594/9 (ITEM 3680) Group Title: Lake Roe gold exploration A Numbers in Group: 19314, 21649, 21850 Exploration for gold over Tertiary palaeodrainage channels which are predominantly underlain by granite. Thin, north-south trending greenstone belts and mafic intrusives lie within these granites. Three main ridges help to constrain the palaeodrainage channels, the Jurangie-Steeple Hill Ridge, the Mt Turner-Mt Charnleigh Ridge and the Mt Quin-Quartz Ridge. Several geophysical methods were used to delineate the channel position, but none proved reliable. RC drilling located a few anomalous gold and silver results, best assays were 20.13 ppm and 36 ppm respectively. Prospects: Lake Roe Assays:

#### REPORT INFORMATION

**A No.:** 21649

**Title:** Lake Roe Project, Annual Report for the period 01/02/1986 to 01/02/1987, E28/39.

**Author(s):** COOPER R W

**Report Date:** 01/03/1987 12:00:00 AM

**Period:** 01/01/1986 12:00:00 AM - 01/01/1753 12:00:00 AM

**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** BHP MINERALS PTY LTD

#### ABSTRACT

Group-Level Summary for Group: M3594/9 (ITEM 3680) Group Title: Lake Roe gold exploration A Numbers in Group: 19314, 21649, 21850 Exploration for gold over Tertiary palaeodrainage channels which are predominantly underlain by granite. Thin, north-south trending greenstone belts and mafic intrusives lie within these granites. Three main ridges help to constrain the palaeodrainage channels, the Jurangie-Steeple Hill Ridge, the Mt Turner-Mt Charnleigh Ridge and the Mt Quin-Quartz Ridge. Several geophysical methods were used to delineate the channel position, but none proved reliable. RC drilling located a few anomalous gold and silver results, best assays were 20.13 ppm and 36 ppm respectively. Prospects: Lake Roe Assays:

#### DRILLING SUMMARY

RC drilling 4 holes for 310m

#### REPORT INFORMATION

**A No.:** 19314  
**Title:** Lake Roe, E28/39, Progress [annual] report to February 1986  
**Author(s):** WINER N  
**Report Date:** 01/07/1986 12:00:00 AM  
**Period:** 01/01/1986 12:00:00 AM - 01/01/1753 12:00:00 AM  
**Report Type:** Annual  
**Project Name:** Lake Roe  
**Operator(s):** BHP MINERALS PTY LTD

#### ABSTRACT

Group-Level Summary for Group: M3594/9 (ITEM 3680) Group Title: Lake Roe gold exploration A Numbers in Group: 19314, 21649, 21850 Exploration for gold over Tertiary palaeodrainage channels which are predominantly underlain by granite. Thin, north-south trending greenstone belts and mafic intrusives lie within these granites. Three main ridges help to constrain the palaeodrainage channels, the Jurangie-Steeple Hill Ridge, the Mt Turner-Mt Charnleigh Ridge and the Mt Quin-Quartz Ridge. Several geophysical methods were used to delineate the channel position, but none proved reliable. RC drilling located a few anomalous gold and silver results, best assays were 20.13 ppm and 36 ppm respectively. Prospects: Lake Roe Assays:

#### DRILLING SUMMARY

RC 63 holes for 2931m