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EL 3077

UMBUM CREEK (PART OF PEAKE AND DENISON JV PROJECT)

SECOND PARTIAL SURRENDER REPORT FOR THE PERIOD 16/4/2003 TO 15/4/2006

Submitted by
Red Metal Ltd
2006

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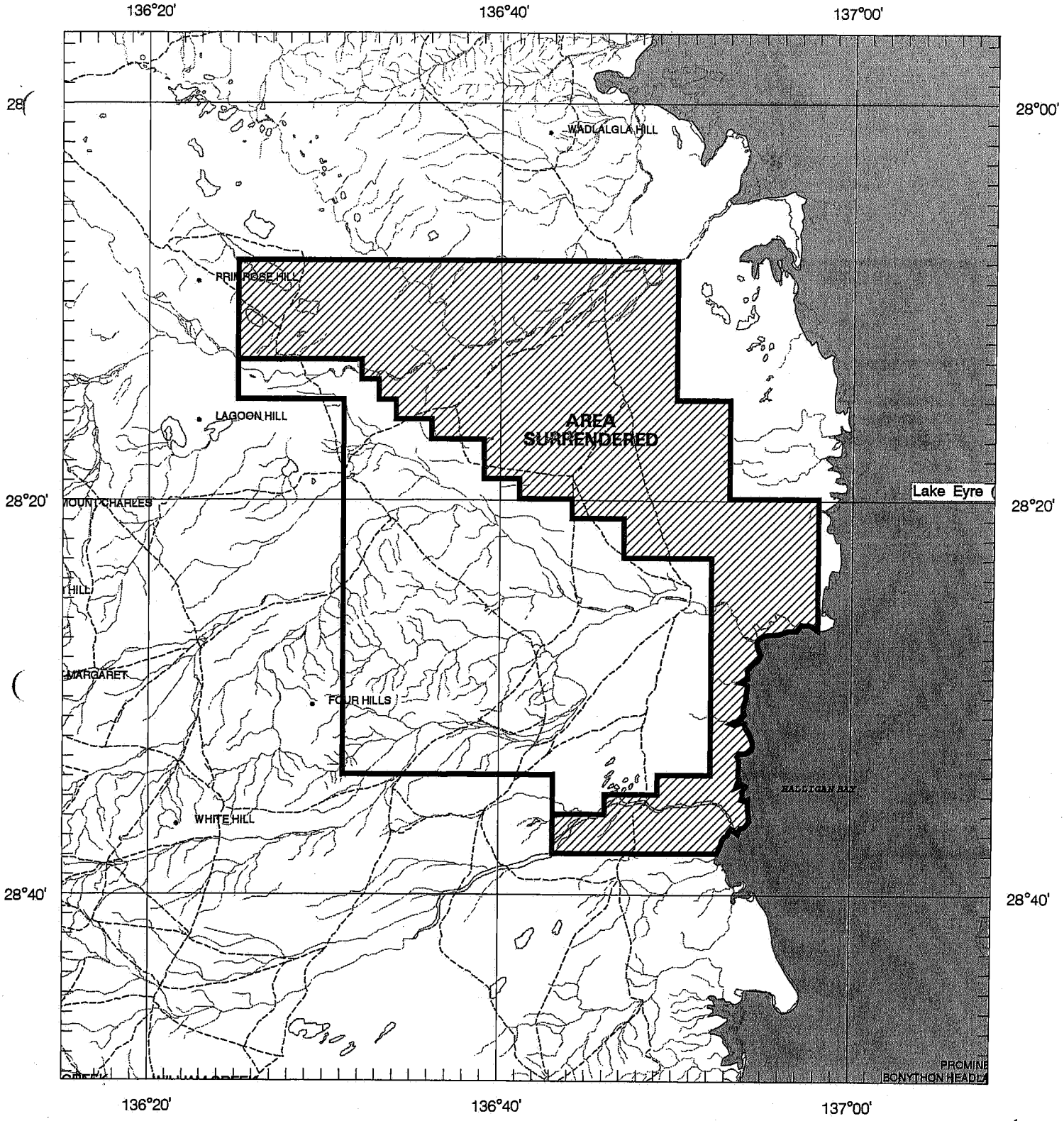
Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



SCALE 1: 500 000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **RIO TINTO EXPLORATION PTY LTD, BHP BILLITON MINERALS PTY LTD**

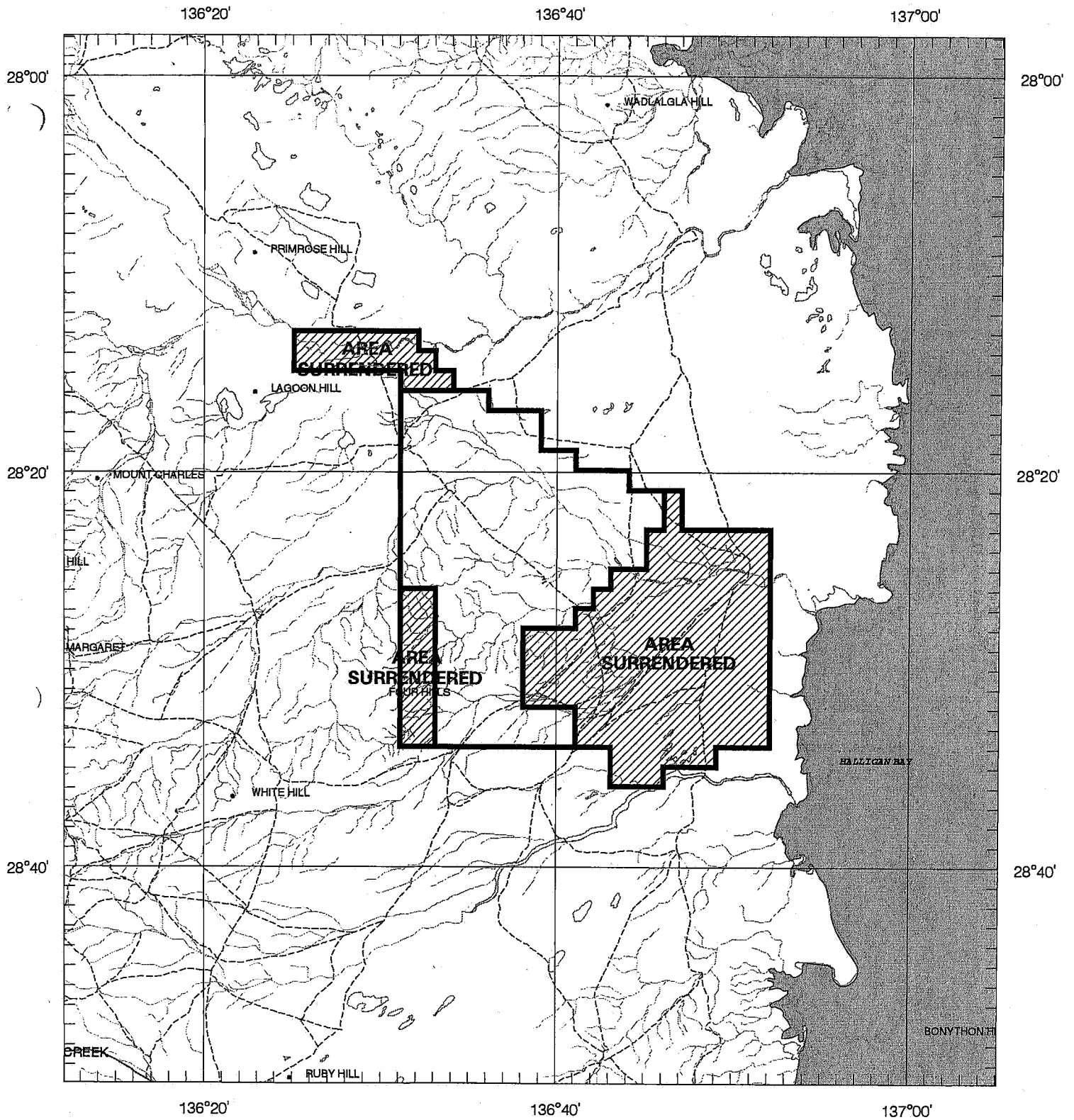
FILE REF : **163/02** TYPE : **MINERAL ONLY** AREA : **1007** km² (approx.)

1:250000 MAPSHEETS : **WARRINA LAKE EYRE**

LOCALITY : **UMBUM CREEK AREA - Approximately 160 km southeast of Oodnadatta**

DATE GRANTED : **16-Apr-2003** DATE EXPIRED : **15-Apr-2005** 2006 EL NO : **3077**

SCHEDULE A



SCALE 1 : 500 000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **RIO TINTO EXPLORATION PTY LTD, BHP BILLITON MINERALS PTY LTD**

FILE REF : **163/02** TYPE : **MINERAL ONLY** AREA : **504** km² (approx.)

1:250000 MAPSHEETS : **WARRINA LAKE EYRE**

LOCALITY : **UMBUM CREEK AREA - Approximately 160 km southeast of Oodnadatta**

DATE GRANTED : **16-Apr-2003** DATE EXPIRED : **15-Apr-2006** EL NO : **3077**

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EL 3077 Partial Surrender Report for the Period Ending 15 April 2006

Peake and Denison Joint Venture

Warrina SH54-03, Lake Eyre SH53-04

Tenement Holder:	Rio Tinto Exploration Pty Limited (RTE) BHP Billiton Minerals Pty Ltd (BHPB)
Date:	November 2006
Author:	G McKay, Red Metal Limited
Distribution:	PIRSA Minerals & Energy Resources BHP Billiton - Perth RTE - Perth Phelps Dodge Australasia, Inc. - Brisbane

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REPORT DIGITAL FILE LIST

File Name
EL3077_2006_01 Partial Surrender Report .pdf (this report)
EL3077_2006_02 Surrendered Gravity Data.txt

1 INTRODUCTION

This report summarises work conducted on the surrendered portion of EL 3077 from grant as EL 2509 on 16/4/1998 until the partial surrender of EL 3077 on 15/4/2006. EL 3077 replaced EL 2509 on 16/4/2003. The tenement area of 2,048 sq km was reduced to 1,007 sq km on 15/4/2005 and 504 sq km on 15/4/2006.

EL 3077 is located on the western margin of Lake Eyre in northern South Australia, midway between the townships of Oodnadatta and William Creek, on the Warrina SH53-03 and partly on the Lake Eyre SH53-04 1:250000 map sheets. Access is via station tracks north from William Creek and east from the Peake homestead via the Oodnadatta Track. The tenement area is the subject of a Native Title claim by the Arabunna People (Claim SC98/002).

2 TENURE

Originally granted to BHP Minerals Pty Ltd as EL 2509 on 16/4/1998, Rio Tinto Exploration Pty Ltd joint ventured into the licence in 1999 along with other tenements in the Peake-Denison area. BHP Billiton Minerals (BHPB) and Rio Tinto Exploration (RTE) are the current title holders. In November 2003 a joint venture was signed between the current holders and Phelps Dodge Australasia Inc, with Red Metal Limited acting as operator on behalf of Phelps Dodge.

Native title cultural heritage clearances were carried out before field work commenced.

3 TARGET

The exploration target is Proterozoic copper-gold ironstone-hosted deposits on the north-east margin of the Peake and Denison Inliers. The highly magnetic terrain of the Peake and Denison area is of similar size and intensity to the Olympic Dam magnetic terrain on the Sturat Shelf. The principal target is Olympic Dam style iron-oxide copper-gold ore systems.

4 HISTORY

Historical mining in the area is confined to the Peake and Denison Inliers where outcropping Palaeoproterozoic through Neoproterozoic metamorphic sediments, volcanics and intrusives host copper oxide mineralisation in structurally controlled quartz-haematite veins and haematite breccia pipes. Dozens of small pits and shafts have been mined through the late 1800's and early 1900's with grades averaging 4% Cu reported from the Copper Top Mine near the Peake Station.

During 1974 Chevron Exploration Corporation held much of the present day Peake & Denison project area under Exploration Licence 22 (Lagoon Hill). Activities were focused on uranium exploration and concluded with an 18-hole mud rotary drilling programme, which was abandoned with little success.

Over the period 1978 to 1980, Dampier Mining conducted ground magnetic and mapping traverses over key magnetic complexes within the area, concluding in two holes (WLE 1 & WLE 2) being drilled. No significant mineralisation was encountered.

BHP Minerals Pty Ltd held tenements in the area in 1978-80 and completed ground magnetic and gravity traverses over selected magnetic complexes. Their work resulted in the drilling

of one hole (WLE1a) into a large gravity/magnetic anomaly which intersected an altered unmineralised calc-silicate rock at 295.4 metres.

CRA Exploration Pty Ltd held tenements around Spring Hill and Mt Charles in the early 1990's. Work activities included stream sediment and gravel sampling, airborne geophysical surveying and gravity surveying.

5 GEOLOGY

The project area is located on the rifted northeast margin of the Gawler Craton within the northwest extension of the Adelaide Orogenic Belt, midway between the Musgrave Block and Curnamona Craton.

The project area incorporates and surrounds a series of Proterozoic inliers correlated with formations on the eastern Eyre Peninsula of the Gawler Craton, though similarities also exist with the geological, structural, and metallogenic evolution of the Mt Isa Inlier in Queensland and the Olary Domain of the Curnamona Craton.

Palaeoproterozoic (1800-1780 Ma) basement lithologies are exposed within the inliers as large enclaves surrounded by Neoproterozoic "diapiric" breccias and further to the east as isolated exposures at Spring Hill, Mt Charles, Lagoon Hill and Milne Springs. These basement rocks are dominated by interlayered metabasalt and quartzite with subordinate porphyritic rhyolite, granite, phyllite, schist and calcsilicate.

A second volcano-sedimentary cycle is recognised at 1750-1740 Ma equated with the Wallaroo Group of the Northern Yorke Peninsula. These rocks comprise felsic metavolcanics, quartz-feldspar schist, gneiss, calcsilicate and quartzite.

Anorogenic felsic plutonism around 1530 Ma is evident within the inliers but is restricted to an occurrence of massive to coarse-grained granite and aplite dykes at Lagoon Hill. The age of these intrusives is important and provides evidence for potential fluid/metal sources with a spatial and temporal relationship to known IOCG mineralising events.

Metamorphic grade varies across the project area from lower greenschist to upper amphibolite facies, the timing of which is poorly constrained due to overprinting by Musgravian (1100 Ma) and Delamerian (500 Ma) Orogenies. The preferred age however is probably around 1690 Ma.

Mesozoic sediment cover of the Eromanga Basin largely conceals metamorphic basement to the east and west of the inliers. The Late Jurassic–Early Cretaceous marginal basin sequence exposed in the area comprises a fining up sequence including the basal Algebuckina Sandstone, Cadna-Owie Formation and Bulldog Shale.

Tertiary gibber lag, gypsiferous clays, alluvial gravels, silts/clays, aeolian dune sands, lacustrine and mound spring deposits overlie the Mesozoic sediments and dominate the surficial cover away from the inliers.

6 EXPLORATION SUMMARY 1998-2003

During the first year of tenure of EL 2509, BHP Minerals conducted a regional gravity survey within the relinquished area (Figure 3).

The gravity survey was carried out over the Peake and Denison area during July/August 1998 by Haines Surveys in order to help generate targets for drilling. Stations were surveyed at 1km spacing. A large part of EL 3077 was covered by this survey.

The resultant bouguer gravity data shows a strong correlation between magnetic and gravity anomalies reflecting the nature of the dense and magnetic Proterozoic basement.

During 1999-2003, work concentrated on the eastern tenements of the Peake-Denison joint venture and no field work was conducted on EL 2509. A farm-in partner was sought and Phelps Dodge Exploration Australia Pty Ltd joined in late 2003.

7 CURRENT EXPLORATION

EL 2509 expired on 15/4/2003 and was replaced by subsequent EL 3077 over the same area. EL 3077 was reduced to 1,007 sq km on 15/4/2005 and 504 sq km on 15/4/2006. No field work has been conducted in the surrendered area of EL 3077 since the gravity surveying in 1998.

8 CONCLUSIONS

The surrendered area of EL 3077 is of no further interest to the licence holders.

9 BIBLIOGRAPHY

- EL 2509 Umbum Creek, Annual Report for period ended 15th April 1999 – White, M; Loftus, K; BHP Minerals Pty Ltd.
- Annual Report for period 1 January 2000 to 31 December 2001 Peake and Denison Joint Venture, EL's 2509, 2549, 2557, 2596, 2620 – Palmer, DC; Grant, TW; Chapman, RN; Rio Tinto Exploration Pty Ltd.
- Final Report for the Period Ending 15th April 2003, EL 2509 Umbum Creek, Peake and Denison Farm-In and Joint Venture Copper-Gold Programme, South Australia – Bishop, SR; Rio Tinto Exploration Pty Ltd.

DESCRIPTOR

This is the Partial Surrender Report for the period ending 15 April 2006 for EL 3077 granted 16 April 2003 and its predecessor EL 2509 granted 16/4/1998.

KEYWORDS

EM Survey, Copper, Gawler Craton, Gold, Gravity Survey, Ground Magnetic Survey, Hematite, Iron oxide, IP Survey, Magnetite, Peake and Denison Inliers, Proterozoic.

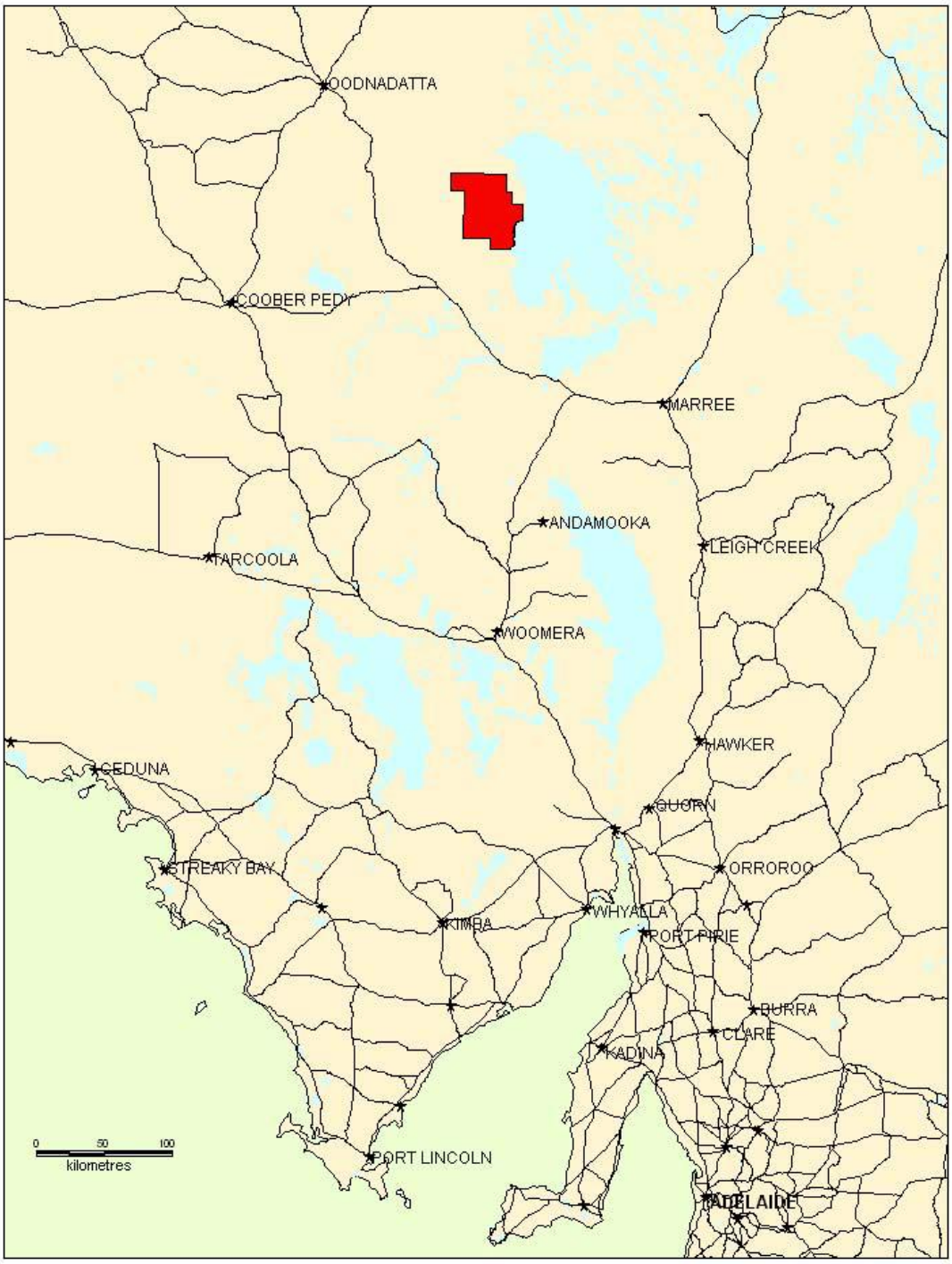

Figure 1: EL 3077

Regional location

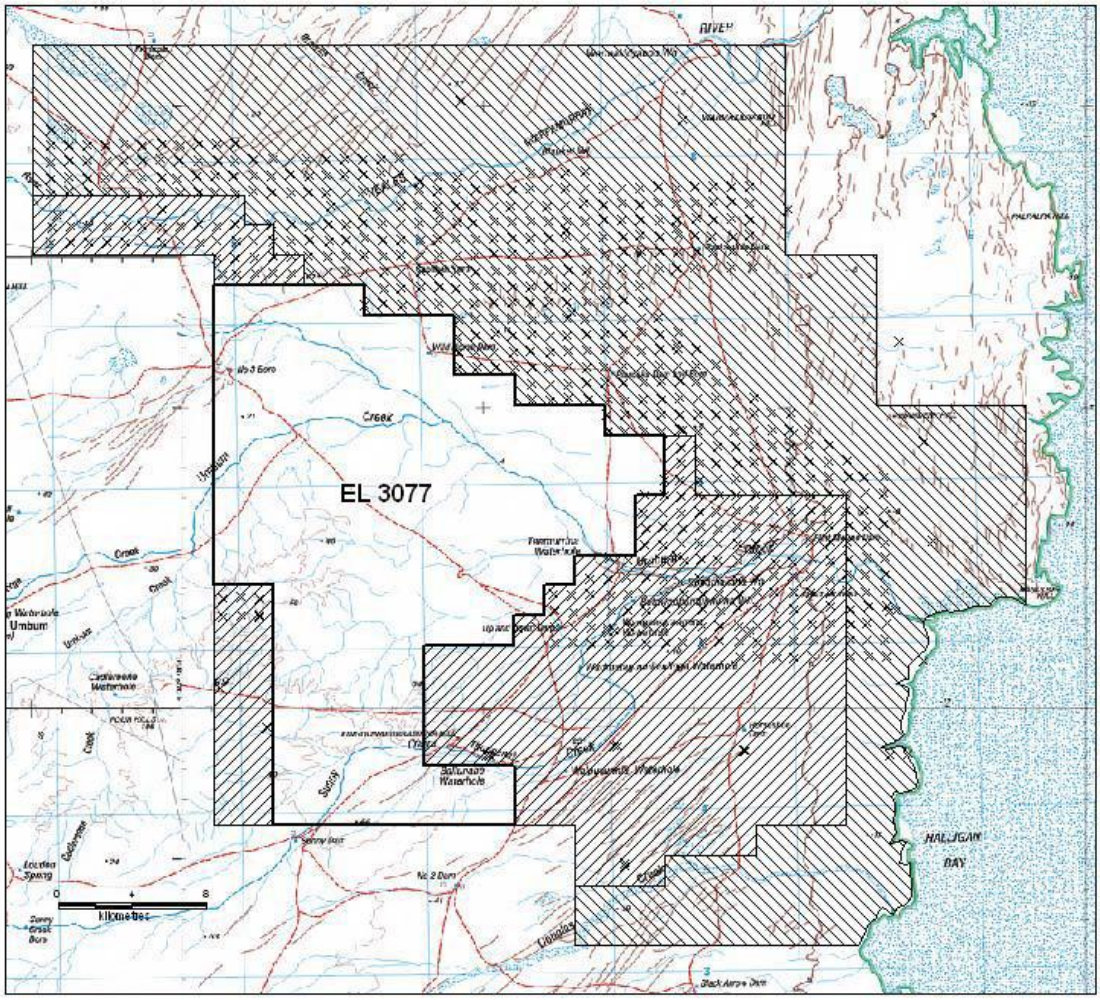

Figure 2: EL 3077

Surrendered areas 2005 & 2006
with gravity stations

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655436	6882387	-20.03
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662324	6883403	-20.13
667941	6875382	-12.98
673995	6875480	-12.55
674420	6882124	-16.05
680063	6876498	-13.74
679294	6868936	-19.06
685989	6868279	-18.2
687593	6856061	-9.93
687200	6862163	-14.37
680182	6862827	-12.84
674141	6863101	-6.78
681709	6855783	-3.97
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667995	6850099	-4.09
668982	6849967	-3.82

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682998	6850016	-3.28
683952	6850000	-3.42
684957	6849954	-3.16
665014	6850983	-5.74
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666995	6851011	-3.9
668020	6850977	-3.69
668961	6851028	-3.4
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668975	6870006	-11.69
669983	6870058	-12.01
670941	6869985	-12.48
671985	6870003	-13.28
672948	6869993	-14
656938	6870977	-10.39
657969	6871011	-9.72
658990	6870965	-9.21
659998	6871021	-9.28
661037	6870983	-9.2
662020	6870990	-9.14
662927	6870976	-9
664008	6871058	-9.47
664987	6871010	-9.82
665947	6871029	-10.66
666947	6870981	-11.23
667988	6871025	-11.6
669004	6871021	-12.05
669987	6871034	-12.31
671023	6871024	-12.8

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658003	6871957	-11.12
658960	6872015	-10.39
659991	6872078	-10.22
660974	6872011	-10.2
661933	6871936	-10.1
662945	6872011	-10
663940	6871960	-10.22
664978	6871986	-10.86
665965	6872013	-11.43
666978	6871983	-12
667999	6871947	-12.31
668955	6871980	-12.66
669978	6872015	-12.89
670982	6872005	-13.29
671969	6872017	-13.41
649230	6872962	-15.55
649985	6872966	-14.82
651018	6873048	-14.52
651018	6873048	-14.54
651018	6873048	-14.51
651018	6873048	-14.52
652020	6872987	-14.56
653005	6872984	-14.83
654080	6872954	-14.69
654975	6873031	-14.73
655998	6872999	-14.22
656975	6872990	-13.2
658007	6873029	-12.39
658975	6873008	-11.74
660011	6872988	-11.1
661019	6872984	-11.08
661934	6872995	-11.39
662981	6872958	-10.99
664054	6872917	-11.19
665018	6872997	-11.81
665979	6873003	-12.29
666986	6873007	-12.54
668029	6872995	-12.67
669067	6872929	-12.89
670016	6873046	-12.88
671005	6873027	-13.05
672014	6873020	-13.13
673001	6872954	-13.52
673971	6872994	-14.29
674968	6873059	-14.76
675945	6873009	-14.98
676965	6873013	-15.2
678054	6873024	-15.03
648993	6873982	-16.79
649973	6873953	-16.13
651017	6873965	-15.98
652027	6874015	-16.52
653039	6873989	-16.57

E_AGD84	N_AGD84	Grav267
653929	6874016	-16.36
655023	6873954	-15.42
655987	6874015	-15.12
656996	6874020	-14.5
657967	6873969	-13.79
659011	6873993	-12.82
660035	6874030	-12.51
661026	6874011	-12.34
662067	6873981	-12.46
662067	6873981	-12.4
662067	6873981	-12.4
663020	6874011	-12.11
663020	6874011	-12.12
663020	6874011	-12.04
663020	6874011	-12.04
664013	6874048	-12.01
665003	6874007	-12.23
666038	6873945	-12.59
667003	6873992	-12.72
668014	6873998	-12.76
668969	6874048	-12.68
670030	6873987	-12.33
671047	6874024	-12.3
672014	6874001	-12.67
673034	6874020	-13.1
674011	6874025	-13.43
675033	6874041	-13.86
675984	6874008	-14.11
676963	6873987	-14.15
677997	6874002	-14.19
639904	6875032	-20.58
641002	6875009	-21.01
642007	6874966	-20.86
642991	6875023	-20.56
644004	6874996	-20.15
645018	6875017	-19.78
646002	6874916	-19.23
646988	6875002	-18.17
648024	6874958	-18.1
648968	6874980	-17.73
650015	6875000	-17.65
650970	6874958	-17.41
652039	6874981	-17.66
653010	6874954	-17.48
653987	6875029	-17.13
655052	6874968	-16.43
655977	6874969	-16.17
656982	6875049	-15.42
657996	6874992	-14.28
659001	6875005	-13.29
660024	6874924	-12.92
661012	6874910	-12.48
661998	6875019	-12.71
663065	6874950	-12.35

E_AGD84	N_AGD84	Grav267
663065	6874950	-12.36
663065	6874950	-12.29
663065	6874950	-12.3
664017	6874958	-12.22
664996	6875019	-12.17
665993	6874953	-12.24
667038	6874959	-12.06
668028	6874993	-11.85
669004	6874981	-11.82
670015	6875046	-11.54
671035	6874994	-11.63
671996	6875028	-12.07
673052	6874985	-12.28
674040	6875006	-12.29
674987	6875006	-12.62
675912	6874935	-13.12
677018	6874888	-13.46
677955	6874995	-13.61
640004	6875944	-21.78
641032	6876005	-22.13
641966	6875895	-22.05
643038	6875986	-21.78
644052	6876038	-21.38
644957	6875979	-20.72
645964	6875925	-19.68
647002	6875953	-19.14
648007	6876017	-19.13
648962	6875951	-18.84
649974	6876002	-19.02
651051	6875853	-18.35
651980	6875999	-18.44
653014	6875983	-18.06
654028	6875885	-17.59
655006	6875999	-17.15
656013	6875967	-16.64
656962	6876058	-15.9
657981	6876019	-14.85
659003	6875981	-14.04
659997	6875967	-13.58
661001	6875996	-12.86
662064	6875964	-12.84
662906	6875968	-12.39
662906	6875968	-12.41
664013	6875982	-12.17
665034	6876024	-11.65
666034	6875948	-11.47
667030	6875997	-11.08
668008	6875983	-10.93
668986	6875960	-10.8
670037	6875993	-10.74
671040	6875982	-10.84
672038	6876003	-10.85
673050	6875959	-10.94
674013	6875940	-11.49

E_AGD84	N_AGD84	Grav267
675044	6876034	-11.97
676008	6875955	-12.61
676973	6875993	-12.91
677979	6875959	-12.93
657058	6876729	-15.85
658975	6877003	-14.62
659955	6876993	-14.18
661027	6876967	-13.3
661988	6876998	-13.02
663006	6876961	-12.4
664034	6876987	-12
664990	6876964	-11.52
665989	6877003	-11.16
666994	6876940	-10.72
667991	6877020	-10.44
668971	6877041	-10.05
670006	6877012	-9.82
670985	6877040	-9.89
672009	6876947	-9.96
672971	6877005	-10.17
673962	6877003	-11.17
675008	6876997	-12
676008	6877073	-12.46
676990	6877020	-12.59
677983	6876983	-12.63
640001	6878015	-25.37
640951	6878144	-26.27
642021	6878076	-26.03
642999	6878025	-25.68
644023	6877968	-25
645035	6877958	-24.66
645966	6878028	-24.31
646983	6877984	-23.84
647994	6878040	-23.36
648941	6877951	-22.3
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650989	6878068	-20.05
652012	6877933	-19.02
653025	6877985	-18.72
653982	6877943	-18.4
654942	6877960	-18.01
656003	6877930	-17.09
656993	6878022	-16.48
657973	6877933	-16
659051	6878046	-15.48
660012	6878006	-14.67
661018	6877960	-13.5
661989	6877981	-12.92
663048	6878007	-12.11
663959	6877950	-11.85
665035	6877971	-11.45
666031	6878026	-10.89
667049	6878017	-10.4
667954	6877993	-9.98

E_AGD84	N_AGD84	Grav267
669037	6878022	-9.2
670057	6877991	-9.17
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671999	6877959	-9.85
672997	6878063	-10.15
673977	6877946	-11.12
675039	6877994	-11.96
675991	6877978	-12.3
676963	6877983	-12.45
678019	6877991	-13.01
639991	6878956	-26.95
641013	6878986	-27.14
641968	6878950	-27.41
642995	6879004	-27.09
643986	6879012	-26.67
644937	6879004	-26.1
645992	6878953	-24.81
646902	6878891	-24.99
647957	6879007	-24.52
648969	6878995	-23.78
649924	6878967	-22.58
650964	6879032	-21.59
652022	6878958	-20.42
652987	6879028	-19.53
654033	6878986	-18.74
654979	6878976	-18.23
655981	6879036	-17.75
656984	6878979	-17.3
657974	6879066	-17.09
658987	6879046	-15.96
660021	6878533	-14.69
661030	6878752	-13.49
662078	6878772	-12.89
663009	6878942	-12.67
664052	6878823	-12.05
665023	6878904	-11.56
666051	6879010	-11.21
666998	6879051	-10.54
667966	6878972	-9.56
669021	6879006	-9.21
640001	6879993	-28.04
640989	6880012	-28.41
642009	6879999	-28.4
643036	6880020	-28.23
643999	6879983	-27.6
645008	6879964	-27.23
646002	6880044	-26.67
646952	6880031	-25.72
648024	6879981	-24.93
649072	6879945	-24.14
650009	6879991	-23.65
650983	6880007	-22.62
652099	6880003	-21.12
652968	6879927	-19.93

E_AGD84	N_AGD84	Grav267
653947	6879966	-18.39
654986	6880009	-17.74
655995	6879950	-17.93
657008	6879958	-17.75
657974	6879956	-17.11
658943	6879997	-16.06
640020	6880959	-28.88
641027	6880989	-29.45
642018	6881020	-29.76
643022	6880961	-29.06
643984	6881008	-28.76
644985	6880936	-28.2
646020	6880991	-27.78
647042	6880941	-26.3
648033	6881019	-25.69
649044	6881029	-24.88
650011	6881007	-24.2
640000	6881985	-29.66
641009	6881996	-30.12