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EL 2191

MANNA HILL

ANNUAL, PARTIAL SURRENDER AND PROGRESS REPORTS TO LICENCE EXPIRY/RENEWAL FOR THE PERIOD 30/8/1996 TO 29/8/2001

Submitted by
Lynas Gold NL / Lynas Corp. Ltd
2001

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Minerals and Energy Resources
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101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000
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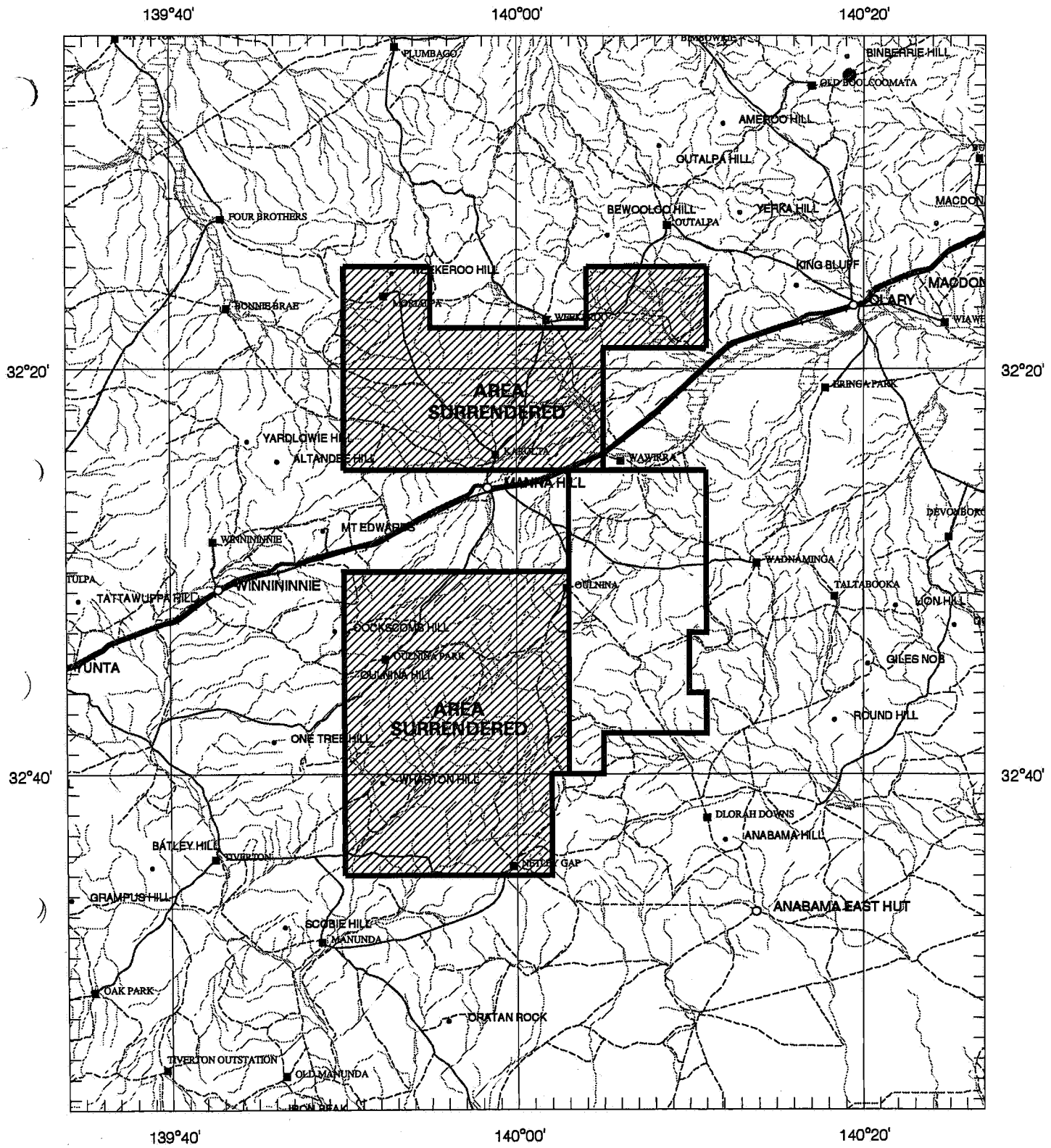
Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



EXPIRED

APPLICANT : **LYNAS ~~GOLD~~ NL, ~~MAWSON GOLD NL~~**

CORPORATION

FILE REF : **111/96** TYPE : **MINERAL ONLY** AREA : **304** km² (approx.)

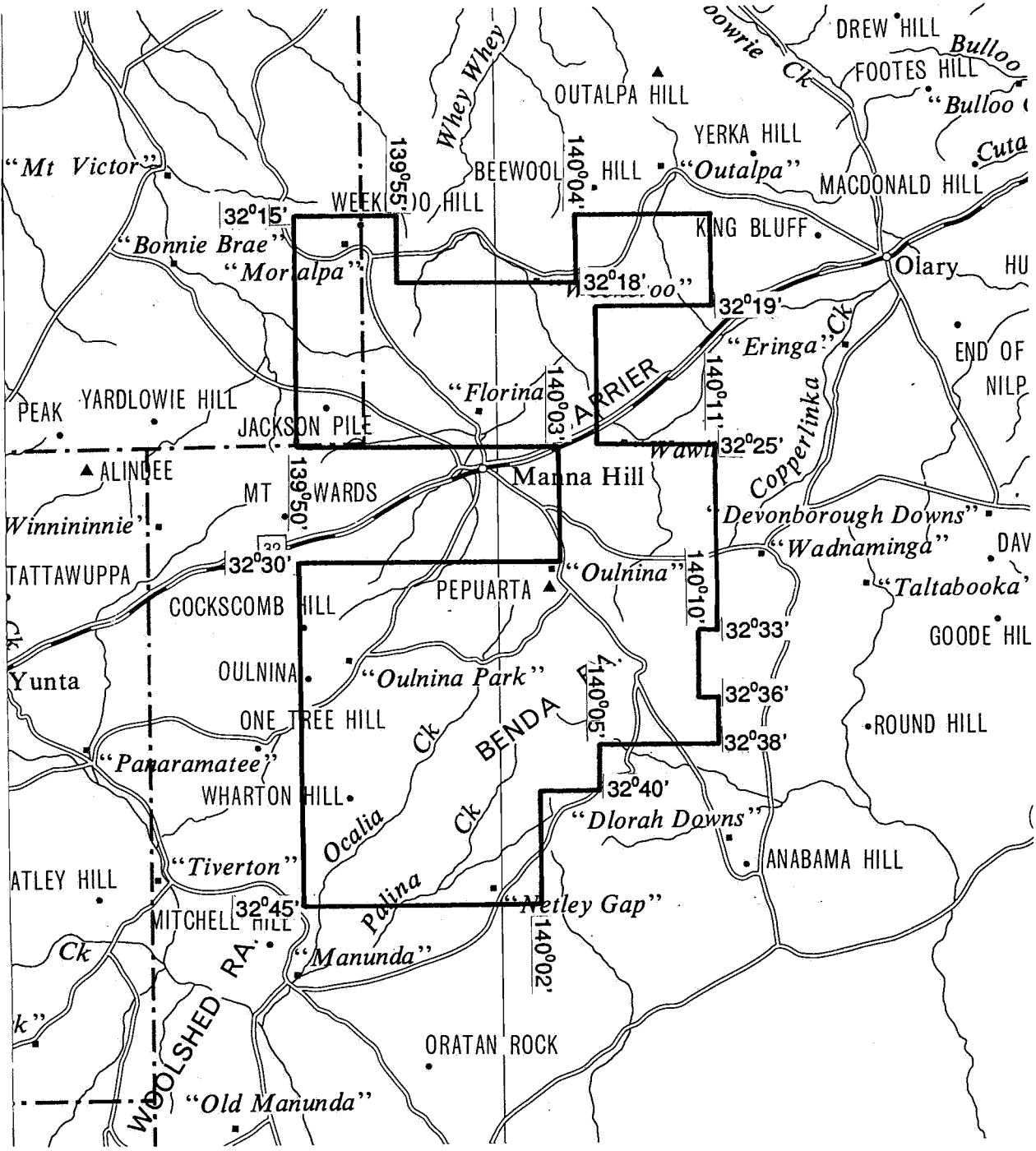
1:250000 MAPSHEETS : **OLARY**

LOCALITY : **MANNAHILL AREA - Approximately 120 km northeast of Peterborough**

DATE GRANTED : **30-Aug-1996** DATE EXPIRED : **29-Aug-~~2000~~ 2001**

EL NO : **2191**

SCHEDULE A



SCALE 1 : 500 000

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KILOMETRES

APPLICANT : **LYNAS GOLD N.L. (~~68~~ 75%) & MAWSON GOLD N.L. (~~32~~ 25%)**

DM : **111/96**

AREA : **1288** square kilometres (approx.)

1:250 000 PLANS : **OLARY**

LOCALITY : **MANNAHILL AREA - Approximately 120 km northeast of Peterborough**

DATE GRANTED : **30 August 1996** DATE EXPIRED : **29 August 1997** ~~98~~ ~~99~~ 2000 2001

EL No : 2191

Exploration Licence 2191
South Australia
First Annual Technical Report
for the period ending 29 August 1997

Prepared By S. Shelton - Exploration Manager
Lynas Gold NL
October 1997

Distribution: **Lynas Gold NL (2)**
Mawson Gold NL (1)
MESA (2)

SUMMARY

Exploration on Exploration Licence 2191 was conducted in concert with exploration on another seven contiguous exploration licences forming the Olary Joint Venture Project. Exploration activities have included literature research, acquisition and interpretation of aeromagnetic survey data and reconnaissance mapping and sampling. Exploration is at an early stage, but initial work has pointed in particular to the prospectivity of the southern part of the licence where a series of thrust structures have been identified. These structures have an intimate relationship with gold mineralisation in the general Wadnaminga goldfield, and with the intrusion of the Anabama - Cornwell Granite Complex. Further exploration is recommended.

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1.0 INTRODUCTION

This report describes exploration activities in Exploration Licence 2191 for the first year of tenure ending 29 August 1997.

EL 2191 is considered to have potential for epigenetic gold localised in thrust related structures - particularly near the Wadnaminga goldfield, and also for intrusive - related copper-gold mineralisation related to the Delamerian Anabama Granite.

Exploration on EL 2191 is being conducted in concert with several other contiguous tenements comprising the Olary Joint Venture Project. In order to present a coherent and worthwhile description of exploration activities, it is proposed to provide a full report of all exploration activities on the project as a whole at the end of the first annual period for the remainder of the exploration licences.

2.0 TENURE

Exploration Licence 2191 covers an area of 1288 square kilometres and is located astride the Barrier Highway between the townships of Yunta and Olary (Figures 1and 2). The licence lies on the Oulnina, Oulnina Park, Outalpa, Weekaroo, Benda and Florina pastoral leases. The licence was granted on 30 August 1996 to Mawson Gold NL. In March 1997, Lynas Gold entered into a joint venture agreement with the tenement holder on ground that consisted of granted licence 2191 and several other exploration licence applications. Grant of the exploration licence applications was made on 3 April 1997 and Lynas subsequently conducted exploration activities on all the tenements.

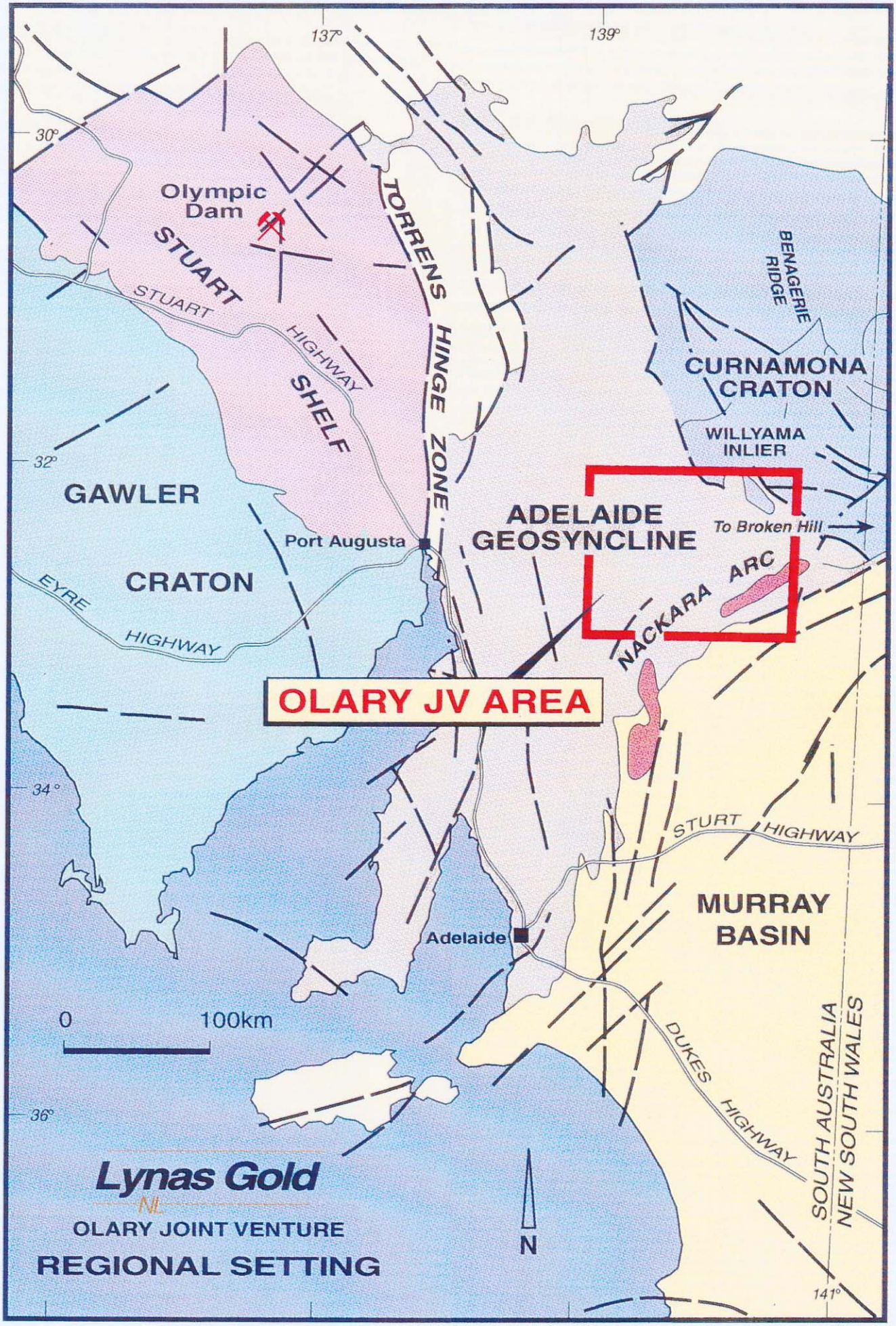
3.0 PREVIOUS EXPLORATION

A review of past exploration and mining has been conducted largely using the MESA SAMREF database.

Substantial historic mining was conducted on the Manna Hill Goldfield - there are numerous references to both mining and exploration. A summary of this is presented in a previous company exploration report by Tomich (1995) based on literature research by A.J. Parker of Geosurveys Australia.

Regional exploration in the tenement has included:

Jarmand Minerals and Exploration Pty Ltd and later farm-in partner **CSR** (Envelope 5260) conducted exploration about the Manna Hill Goldfield. The principal target was bulk tonnage gold mineralisation hosted by structural repetitions or extensions of the worked veins. Techniques included geological and air-photo mapping, and geochemistry (largely drainage, soil


137°
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SHELF
TORRENS HINGE ZONE
BENAGERIE RIDGE
CURNAMONA CRATON
WILLYAMA INLIER
GAWLER
CRATON
ADELAIDE GEOSYNCLINE
To Broken Hill
Port Augusta
NACKARA ARC
EYRE HIGHWAY
OLARY JV AREA
STURT HIGHWAY
MURRAY BASIN
Adelaide
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SOUTH AUSTRALIA
NEW SOUTH WALES
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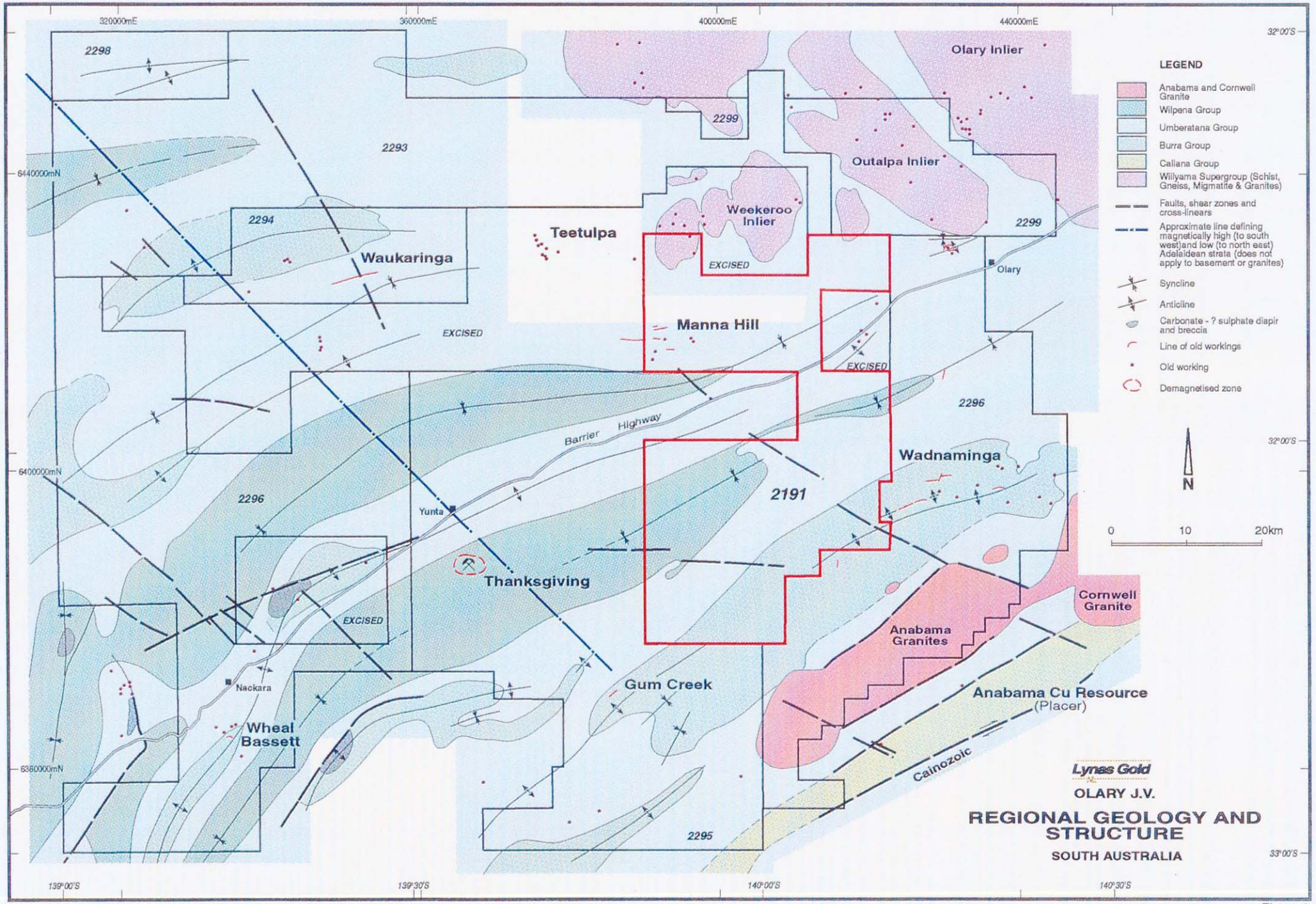
Lynas Gold NL
OLARY JOINT VENTURE
REGIONAL SETTING

Figure 1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2298
2299
2293
2294
2296
2191
2295
Olary Inlier
Outalpa Inlier
Weekeroo Inlier
Teetulpa
Waukaringa
Manna Hill
Wadnaminga
Thanksgiving
Gum Creek
Wheal Bassett
Anabama Granites
Cornwell Granite
Anabama Cu Resource
(Placer)
Cainozoic
EXCISED
Barrier Highway
Yunta
Nackara
Olary
LEGEND
Anabama and Cornwell Granite
Wilpena Group
Umberatana Group
Burra Group
Callana Group
Willyama Supergroup (Schist, Gneiss, Migmatite & Granites)
Faults, shear zones and cross-linears
Approximate line defining magnetically high (to south west)and low (to north east) Adelaidean strata (does not apply to basement or granites)
Syncline
Anticline
Carbonate - ? sulphate diapir and breccia
Line of old workings
Old working
Demagnetised zone
N
0
10
20km
Lynas Gold
OLARY J.V.
REGIONAL GEOLOGY AND STRUCTURE
SOUTH AUSTRALIA

and rock chip sampling). No substantial mineralisation of the targetted type was outlined.

Australian Anglo American Ltd (Envelopes 6029 and 6489) conducted exploration in the Winninninnie area and to the south of the Barrier Highway. Geochemical techniques included rock chip and drainage sampling. Minor gold anomalism was detected at Gum Dam and at the western Winninninnie Dome area.

Equinox Resources NL conducted exploration in the Waukaringa-Mannahill district during 1994-95 (Envelope 8970) looking for Telfer style gold mineralisation. Exploration was largely office oriented with some BLEG and rock chip sampling. Equinox completed regional structural interpretation based on the then available high resolution aeromagnetics. They finally decided that the mineralisation encountered and the structural setting did not conform to the Telfer model (granitoid related model).

4.0 REGIONAL GEOLOGY AND MINERALISATION

A structural/geological report on the project area has been compiled by consultants Vearncombe and Associates, and will be presented in the annual report for the project (ie the report for the remainder of the exploration licences).

In summary, the licence area is dominantly underlain by the Late Precambrian Adelaidean Sequence, with smaller areas of Early Proterozoic Willyama Supergroup basement occurring to the far north. The southern part of the licence area is proximal to the Delamerian Anabama Granite.

Historic gold workings occur north of the Barrier Highway at the Manna Hill goldfield. At this goldfield mineralisation occurs in several different stratigraphic horizons within dolomite and dolomitic siltstone/shale of the Enorama Shale unit - part of the Umberatana Group of the Adelaidean Sequence. Total gold production was 155kg of gold. The two largest producers were Homeward Bound and Westward Ho! (excised). A full account of the geology and mineralisation is provided in the report by consultants Vearncombe and Associates.

5.0 EXPLORATION

Exploration activities have included literature research, acquisition and interpretation of aeromagnetic survey data and reconnaissance mapping and sampling.

MESA and BHI aeromagnetic and radiometric data for the project area were purchased and processed by Cowan Geodata Services, Perth. Imaging of the data - particularly the aeromagnetics - was completed and provided a base for a subsequent structural and geological interpretation. This interpretation was conducted both in-house and by consultants Vearncombe and Associates, with valuable additional work in the Anabama-Wadnaminga area by consultant M. Etheridge of Etheridge, Henley and Williams.

Reconnaissance mapping and rock chip sampling was conducted over the whole project area including EL2191 by Vearncombe and Associates in April-May 1997.

A field evaluation of the Manna Hill goldfield suggests that this area is not prospective for significant gold mineralisation. The gold mineralisation is largely confined to simple narrow

quartz veins that offer restricted widths with no potential stacking.

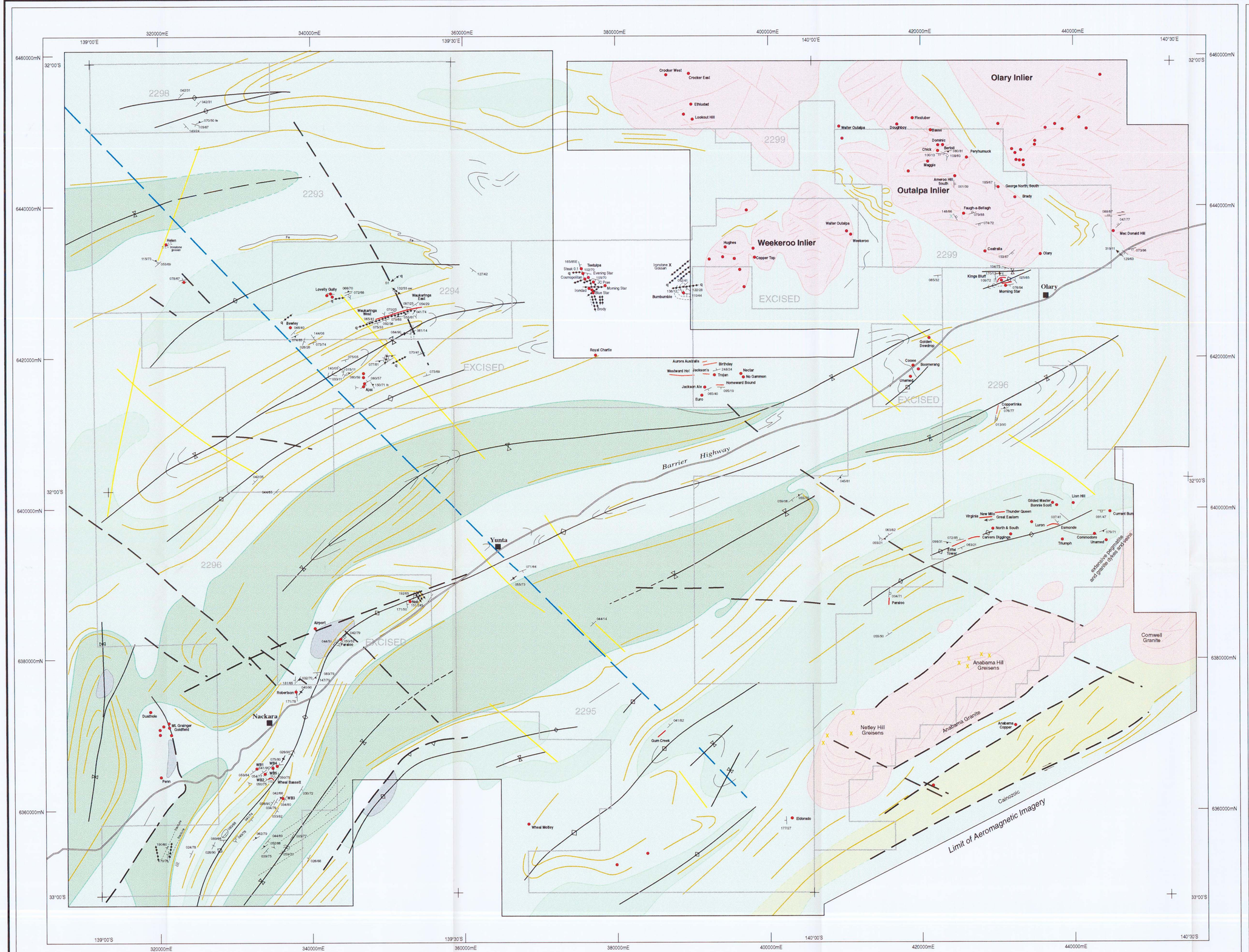
Reconnaissance mapping and aeromagnetics interpretation in the southern part of the licence, to the west of the Wadnaminga goldfield has indicated the presence of several thrust structures. These thrusts and associated structures are believed to be responsible for the localisation of gold mineralisation at Wadnaminga. The thrusts are essentially layer parallel to the Adelaidean stratigraphy and formed during the Cambro-Ordovician Delamerian orogenic episode. This thrusting was probably contemporaneous with the intrusion of the strongly differentiated oxidizing Anabama Granite immediately to the south of the licence area. This intrusive, along with the younger Cornwell Granite to the east, are viewed as the source for the gold mineralisation at Wadnaminga, and are viewed as an important source for copper - gold - basemetal mineralisation regionally. Several anomalous aeromagnetic features potentially related to hydrothermal fluids sourced from these granites are interpreted within the southern part of the licence area.

6.0 CONCLUSIONS

Exploration is at an early stage, but initial work has pointed in particular to the prospectivity of the southern part of the licence where a series of prospective thrust structures and aeromagnetic anomalies have been identified. Further exploration is recommended.

7.0 REFERENCES

TOMICH, C.S. 1995. Manna Hill (EL1961) and Red Hill (EL1962) Final Report - Six Months Ending 26 July 1995



LEGEND

- Anabama and Cornwell Granite
- Wilpena Group
- Umberatana Group
- Burra Group
- Callana Group
- Willyama Supergroup (Schist, Gneiss, Migmatite & Granites)

- Faults, shear zones and cross-linears
- Thrusts
- Strata-parallel magnetic linear
- Anabama & Cornwell Granites, contact & internal linears
- Willyama basement, contact & internal magnetic linears
- Approximate line defining magnetically high (to south west) and low (to north east) Adelaidean strata (does not apply to basement or granites)
- Radiometric cross-linear
- Trend strata from MESA maps
- Syncline
- Anticline
- Carbonate - ? sulphate diapir and breccia
- Calc silicates in Willyama basement
- Greisen
- Younging direction
- Bedding
- Cleavage
- Fold plunge
- Bedding / cleavage intersection lineation
- Schistosity
- Fault
- Trend of schistosity
- Trend of fractures
- Line of old workings
- Old working
- Quartz vein strike and dip

0 25km

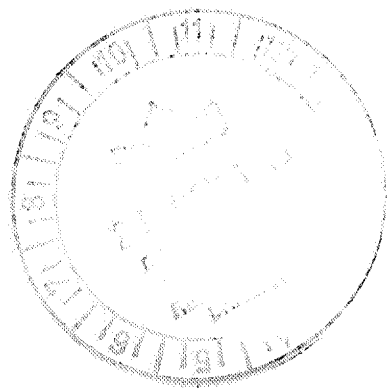
Lynas Gold NL

SOUTH AUSTRALIA

OLARY - YUNTA AREA GEOPHYSICAL INTERPRETATION

Author : Julian & Susan Vearncombe	Date : April 1997	Scale = 1 : 250,000

OLARY JOINT VENTURE PROJECT
SOUTH AUSTRALIA
EXPLORATION LICENCE 2191
SECOND ANNUAL TECHNICAL REPORT
for period ending 29 August 1998



Author: S. J. Shelton
Exploration Manager
Lynas Gold NL

October 1998

Distribution:

Lynas Gold (2)
Mawson Gold (2)
PIRSA (1)

SUMMARY

Exploration on Exploration Licence 2191 was conducted in concert with exploration on another four contiguous exploration licences forming the Olary Joint Venture Project. Exploration activities have included literature research, re-imaging and interpretation of acquired aeromagnetic survey data and reconnaissance mapping and sampling. Initial work has pointed in particular to the prospectivity of the southern part of the licence where a series of thrust structures have been identified. These structures have an intimate relationship with gold mineralisation in the general Wadnaminga goldfield, and with the intrusion of the Anabama - Cornwell Granite Complex. Further exploration is recommended.

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1.0 INTRODUCTION

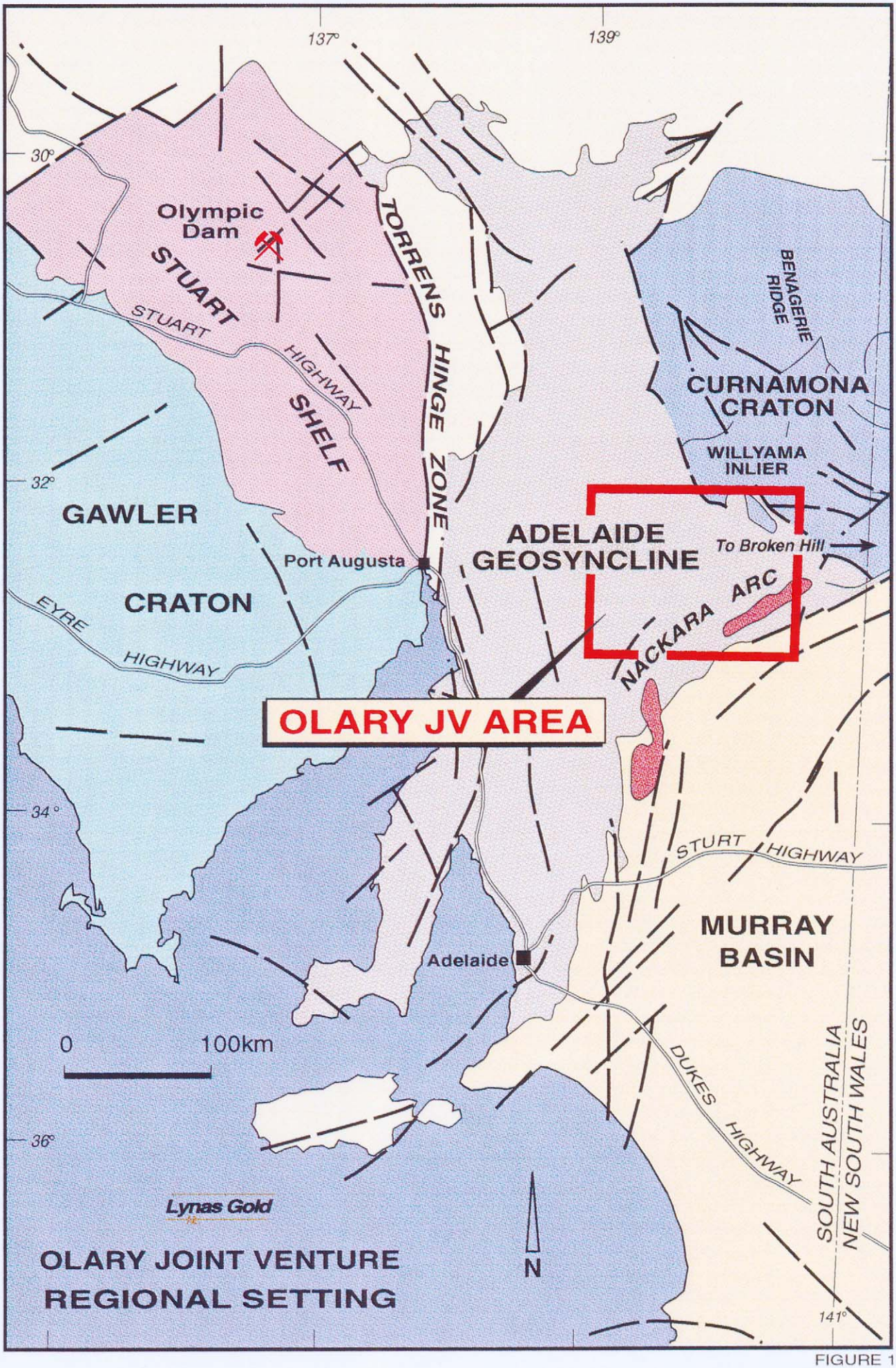
This report describes exploration activities in Exploration Licence 2191 for the second year of tenure ending 29 August 1998. Exploration activities in the contiguous Exploration Licences E2293-2299 - also being explored with the above exploration licence - were previously documented in a separate annual technical report for the period ending 2 April 1998. This report detailed all exploration activities and results for the project to 2 April 1998, including that for Exploration Licence E2191. The whole tenement package is being explored by Lynas Gold NL under the name of the Olary Joint Venture Project.

Exploration was conducted during the period by both Company personnel, and by geological/structural consultants Vearncombe and Associates. The latter compiled two comprehensive reports - one of which pertains to Exploration Licence 2191and was included in the April 1998 report. In order to present a coherent and worthwhile description of exploration activities, it is proposed to provide a full report of all exploration activities on the project as a whole at the end of the second annual period for the remainder of the exploration licences.

The tenements originally covered an approximate 8800 square kilometre area situated along the southern flank of the Proterozoic Curnamona Craton (Olary Block) and the adjoining Nackara Arc of the NE Adelaide Geosyncline. The project area is viewed as having good exploration potential for major mineralisation. Several mineralisation models are applicable and have been pursued in exploration. These include intrusive related copper-gold mineralisation of the Cloncurry Belt and Olympic Dam styles, intrusive related copper-gold-molybdenum mineralisation associated with high level Cambro-Ordovician intrusives and SEDEX silver-lead-zinc mineralisation of the Broken Hill and Cannington styles.

2.0 TENURE

Exploration Licence 2191 covers an area of 1288 square kilometres. The licence lies on the Oulnina, Oulnina Park, Outalpa, Weekaroo, Benda and Florina pastoral leases. The total project area comprising exploration licences 2191 together with exploration licences 2293-2299 cover an area of approximately 8800 square kilometres, and is broadly located astride the Barrier Highway between the townships of Yunta and Olary (Figures 1 and 2). Exploration Licence E2191 was granted on 30 August 1996 to Mawson Gold NL. In March 1997, Lynas Gold entered into a joint venture agreement with the tenement holder on ground that consisted of granted licence 2191 and several other exploration licence applications. Grant of the subsequent exploration licence applications was made on 3 April 1997. These comprise Exploration Licences 2293-2299. Since the date of grant, Lynas Gold has conducted all exploration activities on the tenements under the joint venture agreement. Relinquishment of Exploration Licences E2293, E2294, part E2295, and E2296 was made in April 1998, reducing the project area to 3363 square kilometres.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Olympic Dam
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CURNAMONA CRATON
WILLYAMA INLIER
GAWLER
CRATON
EYRE HIGHWAY
Port Augusta
ADELAIDE GEOSYNCLINE
To Broken Hill
NACKARA ARC
OLARY JV AREA
STURT HIGHWAY
MURRAY BASIN
Adelaide
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SOUTH AUSTRALIA
NEW SOUTH WALES
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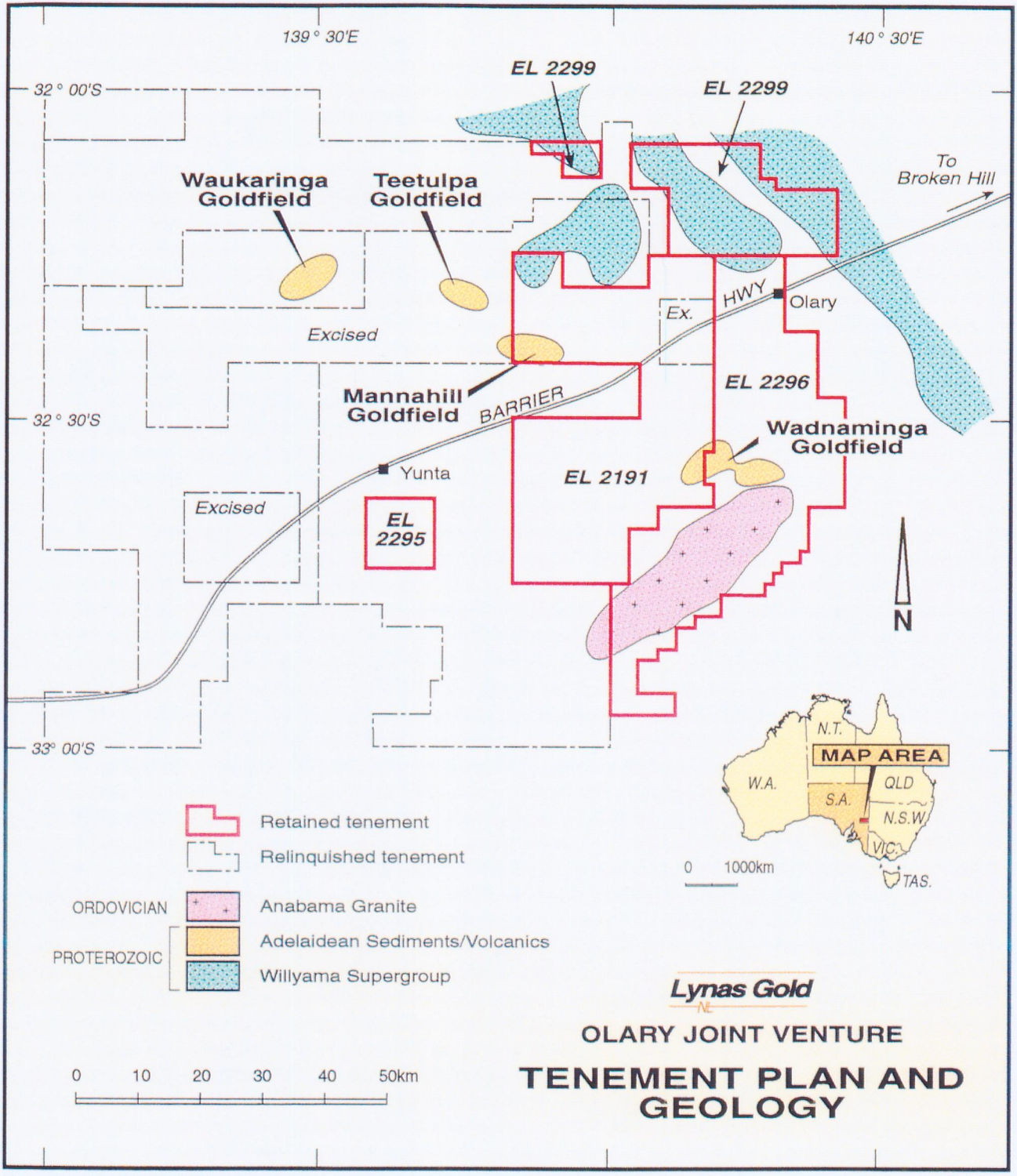
Lynas Gold
OLARY JOINT VENTURE
REGIONAL SETTING

FIGURE 1


139° 30'E
140° 30'E
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33° 00'S
EL 2299
EL 2299
To Broken Hill
Waukaringa Goldfield
Teetulpa Goldfield
Excised
Ex.
HWY
Olary
Mannahill Goldfield
BARRIER
EL 2296
Wadnaminga Goldfield
Yunta
EL 2191
Excised
EL 2295
N
N.T.
MAP AREA
W.A.
QLD
S.A.
N.S.W.
VIC.
TAS.
0 1000km
Retained tenement
Relinquished tenement
ORDOVICIAN
Anabama Granite
PROTEROZOIC
Adelaidean Sediments/Volcanics
Willyama Supergroup
0 10 20 30 40 50km
Lynas Gold NL
OLARY JOINT VENTURE
TENEMENT PLAN AND GEOLOGY

3.0 PREVIOUS MINING AND EXPLORATION

Mining activities have largely been confined to numerous small scale gold and basemetal camps. Within the Adelaidean, alluvial and reef gold mining has occurred mainly at the Waukaringa, Teetulpa, Manna Hill and Waukaringa goldfields. The Willyama Group rocks within the Outalpa Inlier are host to numerous small gold and basemetal mines. The location, production and geological context of these deposits have been documented in a report by consultants, Vearncombe and Associates (previously forwarded to the Department with the April 1998 technical report).

A review of past exploration has been conducted largely using the PIRSA SAMREF database. I There have been in excess of 108 cases of reported prior exploration within the extensive project area. Substantial historic mining was conducted on the Manna Hill Goldfield - there are numerous references to both mining and exploration. A summary of this is presented in a previous company exploration report by Tomich (1995) based on literature research by A.J. Parker of Geosurveys Australia.

Regional exploration in the tenement has included:

Jarmand Minerals and Exploration Pty Ltd and later farm-in partner **CSR** (Envelope 5260) conducted exploration about the Manna Hill Goldfield. The principal target was bulk tonnage gold mineralisation hosted by structural repetitions or extensions of the worked veins. Techniques included geological and air-photo mapping, and geochemistry (largely drainage, soil and rock chip sampling). No substantial mineralisation of the targetted type was outlined.

Australian Anglo American Ltd (Envelopes 6029 and 6489) conducted exploration in the Winnininnie area and to the south of the Barrier Highway. Geochemical techniques included rock chip and drainage sampling. Minor gold anomalism was detected at Gum Dam and at the western Winnininnie Dome area.

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Previous exploration by Lynas Gold on behalf of the joint venture consisted of literature research together with the acquisition, processing and interpretation of MESA/BHI aeromagnetics and radiometrics. Reconnaissance mapping and sampling were conducted at that time in concert with work on surrounding tenements of the joint venture. This work is detailed in the first annual technical report.

4.0 REGIONAL GEOLOGY AND MINERALISATION

A structural/geological report on the project area has been compiled by consultants Vearncombe and Associates and was presented in the April 1998 report. An additional report examining aspects of geology and mineralisation in the Outalpa Inlier (Exploration Licence E2299) has been compiled by Vearncombe and Associates, and has been similarly presented. Figure 3 shows a summarized geological and structural interpretation for the project area. The accompanying plans (Plan 1) shows a more detailed interpretation at 1:250,000 scale.

In summary, the project area is dominantly underlain by the Late Precambrian Adelaidean Sequence, comprising 800 to 700Ma clastic and carbonate sediments. Four groups are recognised comprising the early rift phase Callana and Burra Groups, and later sag phase Umberatana and Wilpena Groups. The Adelaidean Sequence, at least in part, unconformably overlies the Early Proterozoic Willyama Supergroup of the Olary Block/Domain - part of the Curnamona Craton. This 1700Ma sequence comprises medium-high grade regionally metamorphosed and deformed sedimentary, minor volcanic and abundant intrusive rocks. The sequence is intruded by extensive volumes of mid-Proterozoic S-type granitoids with minor mafic dykes.

Tectonism of the approximate 500Ma Cambro-Ordovician Delamerian Orogeny produced doubly plunging anticlines and synclines, with northwest directed thrusts. Proterozoic growth and transfer fault architecture was probably reactivated during this period. The Delamerian age Anabama - Cornwell Granite complex truncates the the southern limb of the Wadnaminga anticline. This high level oxidizing granite complex and associated greisens intrudes along the south-eastern margin of the project area - it is associated with proximal copper-gold-molybdenum and distal lead-zinc-silver mineralisation.

A complete description of the mineralisation and mines within the project area is provided in the consultants reports. A summary outline is provided here.

The Adelaidean Sequence within or enclosed by the project area are host to several small gold mining centres which together produced some 180,000 oz of gold from alluvial and reef workings. This represents some 90% of the gold production recorded for the Nackara Arc. It is likely that this mineralisation is related to the Delamerian orogeny with fluid movement and deposition related to the interplay of reactivated Proterozoic structures and thrust faulting.

Within Exploration Licence E2191, historic gold workings occur north of the Barrier Highway at the Manna Hill goldfield. At this goldfield, mineralisation occurs in several different stratigraphic horizons within dolomite and dolomitic siltstone/shale of the Enorama Shale unit - part of the Umberatana Group of the Adelaidean Sequence. Total gold production was 155kg of gold. The two largest producers were Homeward Bound and Westward Ho! (excised). A full account of the geology and mineralisation is provided in the report by consultants Vearncombe and Associates.

The Willyama Group within the Outalpa Inlier is host to numerous small silver-basemetal, and lesser gold workings.

5.0 EXPLORATION

5.1 Exploration Models and Objectives

The project area is recognised to have potential to host four main styles of potentially economic mineralisation, and these have subsequently been pursued in exploration. These are:

1. Structurally related gold mineralisation within the Adelaidean Sequence

2 . Copper-gold (-molybdenum) mineralisation associated with the Delamerian high level granitoids, and hydrothermal systems. This mineralisation may be particularly well developed in the more calcareous units of the Adelaidean (ie. skarn copper-gold mineralisation).

3. Copper-gold mineralisation associated with Proterozoic intrusives - of the Cloncurry Belt style

4. Silver-lead-zinc mineralisation of the Broken Hill and Cannington styles

Structurally related gold mineralisation occurs at several small gold mining centres within and proximal to the project area. Initial reconnaissance work and evaluation was conducted by consultants Vearncombe and Associates and documented in their report. Further work - particularly at the Wadnaminga goldfield within E2297 - was conducted by Company personnel. Mineralisation in the Proterozoic Outalpa Inlier within E2299 was evaluated by Vearncombe and Associates and to a lesser extent by Company personnel. The Delamerian related mineralisation was pursued by Company personnel exclusively.

5.2 Exploration Activities

Exploration activities on the project area as a whole have included the following:

- Literature research including the compilation of previous exploration data utilising the PIRSA SAMREF database

- Acquisition of digitised topographic and geological data

- Acquisition, imaging and interpretation of high resolution aeromagnetics and radiometrics

- Reconnaissance geological mapping and geochemical sampling

- Soil and calcrete geochemical sampling

- RAB/Aircore drilling of selected targets

5.3 Database Formation

Digital topographic data at 1:100,000 scale was purchased from Auslig and incorporated in the project database. A minor proportion required digitising of hard copy plans in-house. All available geological mapping, including the BHI Geological Compilation of W. Laing were acquired.

5.4 Geophysics

MESA and BHI aeromagnetic and radiometric data for the project area were purchased and processed by Cowan Geodata Services, Perth. This was combined with available company aeromagnetics data for the Wadnaminga area. Extensive imaging of the data - particularly the aeromagnetics - was completed and provided a base for a subsequent structural and geological interpretation. This interpretation was conducted both in-house and by consultants Vearncombe and Associates, with valuable additional work in the Anabama-Wadnaminga area by consultant M. Etheridge of Etheridge, Henley and Williams (now SRK Australia). Modeling of particular aeromagnetic features was also conducted by Cowan Geodata Services.

Figure 4 and Plan 2 show one of the preferred aeromagnetic images for the project area.

Interpretation of this geophysical data coupled with field observations led to the establishment of a structural/geological interpretation for the project area as shown in Plan 1, and more simply in Figure 3. Particularly important aspects of this interpretation are:

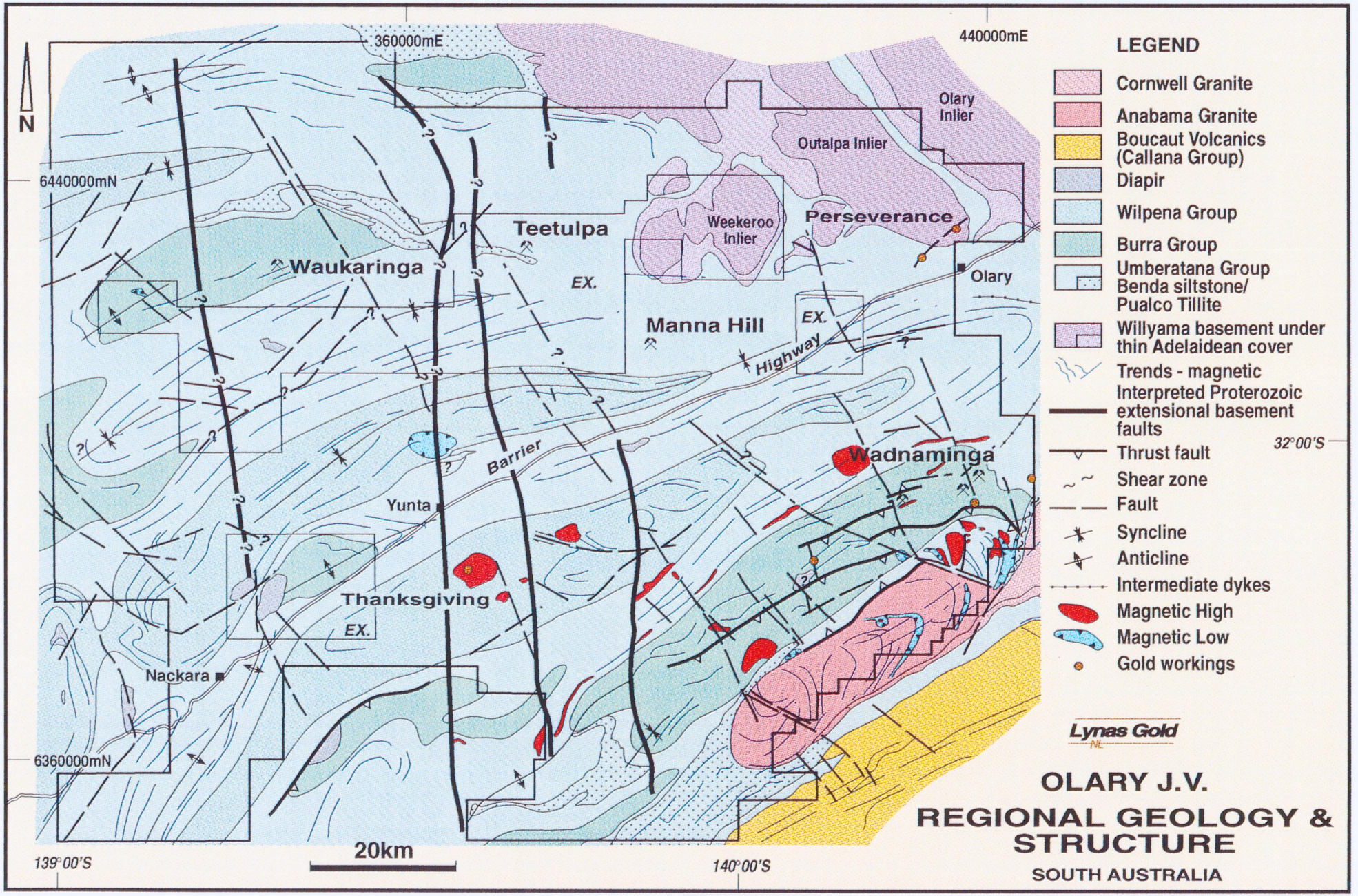
- the recognition of a Proterozoic structural basement to the Adelaidean Sequence. Aspects of the original Proterozoic basinal architecture may be recognised - particularly several north-trending faults that delimit local Adelaidean basins. These probably represent original growth and transfer faults that are likely to have been recurrently active into at least Delamerian times.

- the recognition of thrust faulting in the Adelaidean sequence - presumably also a consequence of the Delamerian tectonism that formed the characteristic open folding of the cover sequence. Gold mineralisation is considered to be associated with the dilational parts of an evolving thrust system. The Wadnaminga goldfield, in particular, can be shown to be associated with a number of thrust structures in an area of constrained geometry and proximity to mineralising Delamerian granitoids.

5.5 Exploration Activities on E2191 during the period

Exploration activities have included the completion of reconnaissance mapping and sampling conducted by consultants Vearncombe and Associates, and re-imaging of aeromagnetic survey data.

Previously aquired MESA and BHI aeromagnetic and radiometric data for the project were re-imaged by Cowan Geodata Services, Perth. This re-imaging of the data has provided a base for a revised structural and geological interpretation of the district.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Manna Hill
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Highway
Barrier
Wadnaminga
Yunta
Thanksgiving
EX.
Nackara
LEGEND
Cornwell Granite
Anabama Granite
Boucaut Volcanics (Callana Group)
Diapir
Wilpena Group
Burra Group
Umberatana Group
Benda siltstone/ Pualco Tillite
Willyama basement under thin Adelaidean cover
Trends - magnetic
Interpreted Proterozoic extensional basement faults
Thrust fault
Shear zone
Fault
Syncline
Anticline
Intermediate dykes
Magnetic High
Magnetic Low
Gold workings
Lynas Gold NL
OLARY J.V.
REGIONAL GEOLOGY & STRUCTURE
SOUTH AUSTRALIA

FIGURE 3

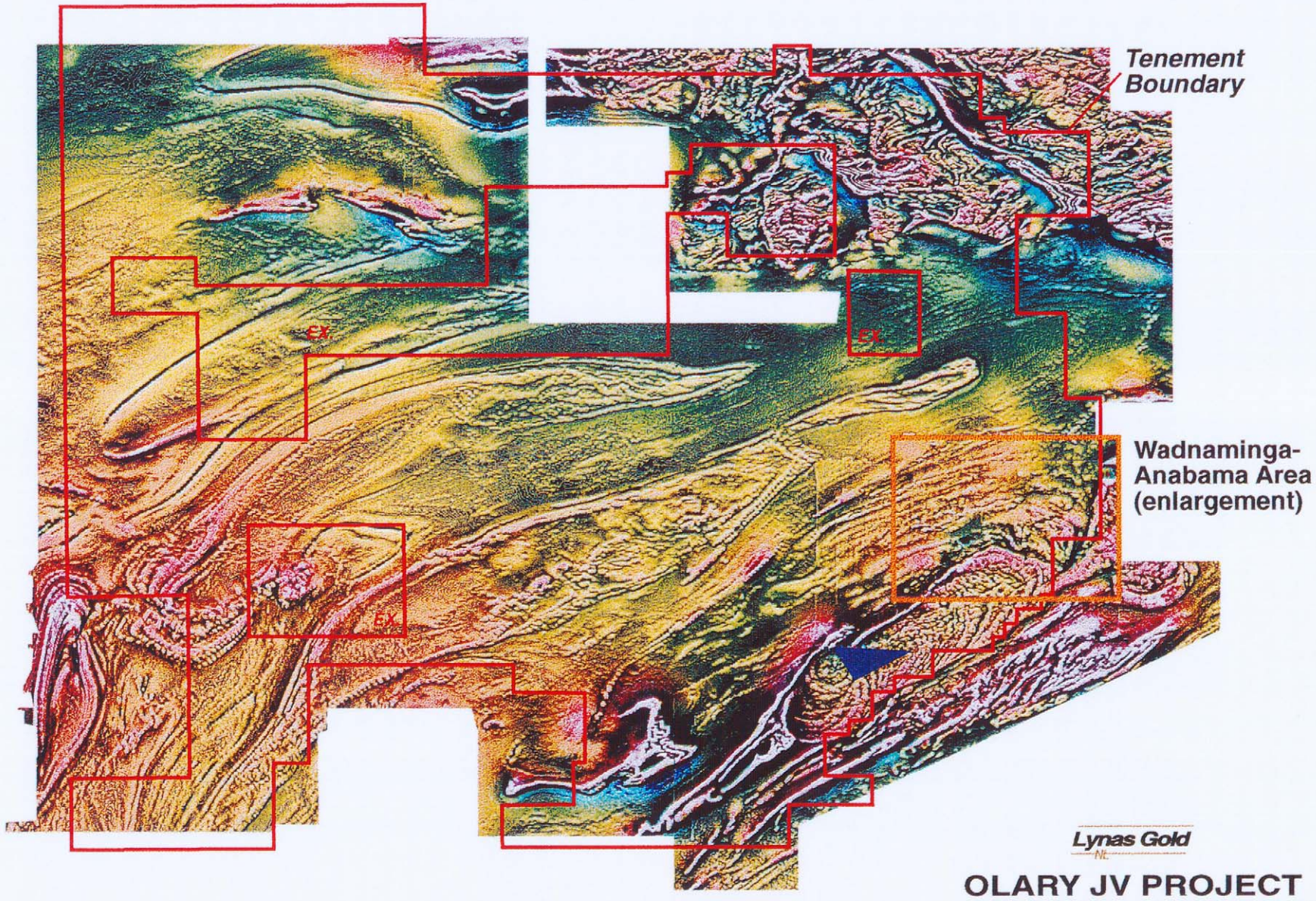

Tenement Boundary
Wadnaminga-Anabama Area (enlargement)
Lynas Gold NL
OLARY JV PROJECT
AEROMAGNETICS

FIGURE 4

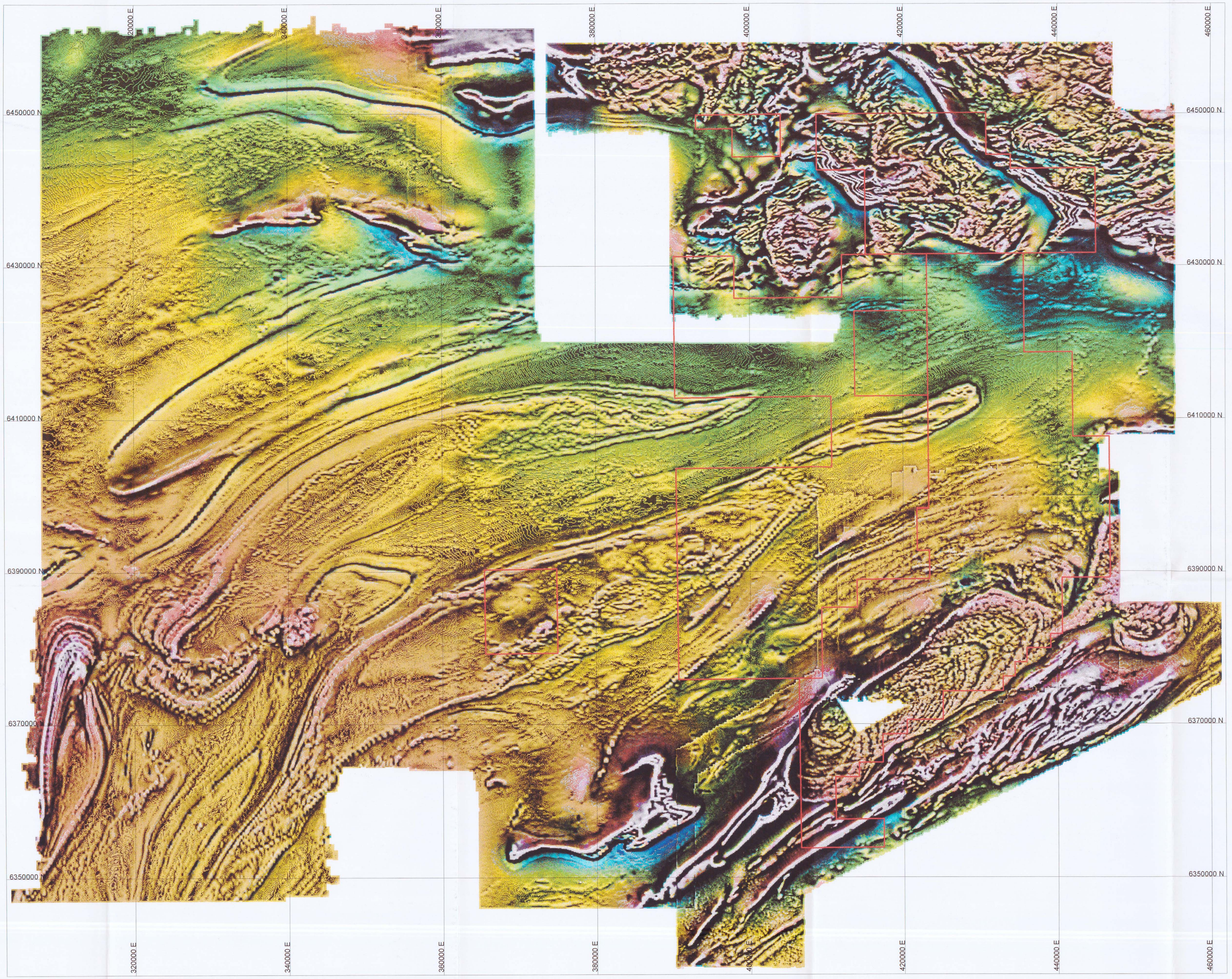
6.0 CONCLUSIONS AND RECOMMENDATIONS

Exploration is at an early stage, but initial work has pointed in particular to the prospectivity of the southern part of the licence where a series of prospective thrust structures and aeromagnetic anomalies have been identified. Further exploration is recommended.

7.0 REFERENCES

TOMICH, C.S. 1995. Manna Hill (EL1961) and Red Hill (EL1962) Final Report - Six Months Ending 26 July 1995


LEGEND
Anabama and Cornwell Granite
Boucaut Volcanics (Callana Group)
Wilpena Group
Burra Group
Umberatana Group
Benda siltstone / Pualco Tillite
Willyama basement under thin Adelaidean cover
Interpreted Proterozoic extensional basement faults
Faults, shear zones and cross-linears
Thrusts
Trends - magnetic
Shear zone
Willyama basement - internal magnetic linears
Radiometric cross-linear
Syncline
Anticline
Carbonate - ? sulphate diapir and breccia
Calc silicates in Willyama basement
Greisen
Younging direction
Bedding
Cleavage
Fold plunge
Bedding / cleavage intersection lineation
Schistosity
Fault
Trend of schistosity
Trend of fractures
Line of old workings
Old working
Quartz vein strike and dip
Intermediate dykes
Magnetic High
Magnetic Low
0
25km
Lynas Gold NL
SOUTH AUSTRALIA
OLARY JOINT VENTURE
OLARY - YUNTA AREA
GEOLOGICAL INTERPRETATION
Drawing : Plan 1
Date : October 1997
Scale = 1 : 250 000
Olary Inlier
Outalpa Inlier
Weekeroo Inlier
Olary
Yunta
Nackara
Barrier Highway
Anabama Granite
Anabama Hill Greisens
Netley Hill Greisens
Cornwell Granite
Limit of Aeromagnetic Imagery
320000mE
340000mE
360000mE
380000mE
400000mE
420000mE
440000mE
6460000mN
6440000mN
6420000mN
6400000mN
6380000mN
6360000mN
139°00'E
139°30'E
140°00'E
140°30'E
32°00'S
33°00'S



10 0 10 Kilometers

1:250000

Lynas Gold NL (incorporated in Western Australia)

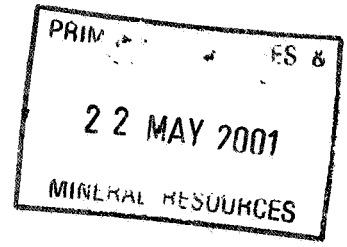
Olary Joint Venture

Enhanced Magnetics
Wavenumber Filtering
with Tenement Boundaries

Plan 2

17 May 2001

Mineral Resources Records Officer
Primary Industry and Resources SA
GPO Box 1671
ADELAIDE SA 5001



Attention : Jason Tugwell

Dear Sir

RE : MINERAL EXPLORATION LICENCE 2191

I refer to you facsimile transmission dated 12 April 2001 and apologise for the delay in responding because I have been absent from the office in the field and then away on annual leave.

I can confirm that there is no technical reporting to be lodged for the 12-month periods ending 29 August 1999 and 2000. All exploration work undertaken during that time was on the other two Licences in the Project, namely 2297 and 2299.

A collaborative exploration program involving CRC**LEME** , PIRSA and Lynas Corporation has recently been finalized and the resultant report lodged with both PIRSA and Lynas. This work will be released into the public domain three months after its lodgment. A portion of this work will be attributable to the technical report for the year ending 29 August 2001.

Please do not hesitate to contact me if you require further information.

Yours faithfully

Peter Davies
Lands Manager

50 Colin Street West Perth WA 6005 | PO Box 289 West Perth Western Australia 6872
Facsimile: +61 8 9481 3455 | Email: lynas@lynascorp.com | Website: www.lyna

EG 2191

Lynas Gold NL
(Incorporated in Western Australia)

50 Colin Street, West Perth, W.A. 6005
P.O. Box 289 West Perth, Western Australia 6872
Tel: (08) 9481 3400 Fax: (08) 9481 3455 Internet: www.lynasgold.com.au
A.C.N. 009 066 648

4 November 1999

Mr George Kwitko
Senior Geologist Company Exploration
Primary Industry and Resources
101 Grenfell Street
ADELAIDE SA 5000

Dear George ~~George~~ Jeff

RE : EXPLORATION LICENCE 2191 – Partial relinquishment of 1/11/1999.

Further to the lodgment of our application for the Partial Surrender of the northwestern portion of Exploration Licence 2191 we wish to advise that no exploration activity has taken place within the surrendered area since the last technical report was lodged for the Licence.

Accordingly we do not have any technical data to lodge for this period and furthermore have no problem with the release to open file the data that has already been reported.

Yours faithfully
Lynas Gold NL

Peter Davies
Lands Manager

PRIMARY INDUSTRY and RESOURCES S A

SUMMARY REPORT ON MINERAL EXPLORATION

(Separate form for each licence)

Exploration Licence No: **2191 (MANNAHILL)**

For Six Months Ending: 28/02/2001 **Operator/Manager:** **LYNAS CORPORATION LTD**

Mineral(s) Sought: ALL MINERALS EXCEPT FOR EXTRACTIVE MINERALS AND PRECIOUS STONES

Prepared by: **PETER DAVIES**

Date: **22/03/2001**

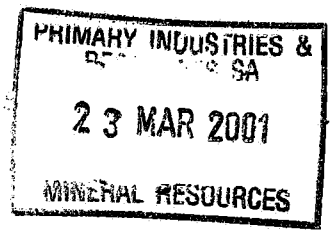
Phone No: **(08) 9481 3400**

SUMMARY OF OPERATIONS

(No. Type of samples: line km & type of survey: No of holes: metres of each type of drilling: Environmental activities etc).

PORTION OF THE COSTS OF A REGOLITH LANDFORM MAPPING AND SOIL GEOCHEMICAL SURVEY COVERING THE OLARY AND ANABAMA 1:100,000 MAP SHEETS COMPLETED BY CRC**LEME.** ($87,500 contributed by Lynas Gold).

THE TOTAL COST OF THIS PROJECT IS ESTIMATED AT $186,000



(If field activity undertaken, attach A4 size plan showing general location and type of work done)

EXPENDITURE

Expenditure for Period: **$5,700**
(Add detailed statement)

Total Expenditure for Licence: **$77,917**

PRIMARY INDUSTRIES AND RESOURCES SA

Office of Minerals and Energy Resources SA

SUMMARY REPORT ON MINERAL EXPLORATION

(Separate form for each licence)

Exploration Licence No:	2191
For Six Months Ending: 29/8/01	**Operator/Manager:** Lynas Corporation Ltd
Mineral(s) Sought: All minerals except for extractive minerals and precious stones.	**Prepared by:** Mike Joyce
	Date: 3/1/02
	Phone No: (08) 9481 4440
	Fax No: (08) 9321 0070

SUMMARY OF OPERATIONS

(No., type of samples; line km & type of survey; No. of holes; metres of each type of drilling; Environmental activities etc).

by K. Wells

Principal activity was geological consultants report, which included a comprehensive summary of exploration work completed by past tenement holders, along with recommendations for future work.

RECEIVED
07 JAN 2002
OFFICE OF MINERALS & ENERGY RESOURCES MINERAL TENEMENTS

[If field activity undertaken, attach A4 size plan showing general location and type of work done]

EXPENDITURE

Expenditure for Period:	$	7,206
(Add detailed statement) **Total Expenditure for Licence:**	$	~~224,695~~ $85123

PIRSA C2002/00345

02218796