



**RENISON CONSOLIDATED MINES NL**  
ACN 003 049 714

# **2004 Annual Report**

## **On**

### **EXPLORATION LICENCE, EL 10367**

#### **AuQuest Project**

Period Beginning 23<sup>rd</sup> October 2003  
And the Period Ending 22<sup>nd</sup> October 2004.

**LICENCEE \ OPERATOR:**  
**STANDARD 1:250,000 SHEET:**  
**STANDARD 1:100,000 SHEET:**  
**AUTHOR:**

**DATE:**  
**DISTRIBUTION:**

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**October 2004**  
**NT Department of Mines & Energy.**  
**Renison Consolidated Mines NL, Brisbane.**  
**Renison Consolidated Mines NL, Tom's Gully.**

## Tenement Details

This Tenement was applied for in 1999 and has been held up in Native Title until recently. The tenement comprises 5 blocks covering 17 km<sup>2</sup> and is located south of Tom's Gully and West of Quest 29.

### Tenement History

**Table 1 Tenure Details EL 10367**

<b>Date of Grant</b>			<b>23rd October 2003</b>	
<b>Period of Grant</b>			<b>6 Years</b>	
<b>Year of Tenure</b>	<b>Period</b>	<b>Blocks Surrendered</b>	<b>Blocks Retained</b>	<b>Expenditure Covenant</b>
<b>1</b>	<b>2003/2004</b>	<b>0</b>	<b>5</b>	<b>\$5,500</b>
<b>2</b>	<b>2004/2005</b>	<b>0</b>	<b>5</b>	<b>\$6,000</b>

## SUMMARY

Renison Consolidated Mines NL has been developing an exploration strategy in the Northern Territory since 1999. This strategy includes targeting dislocations that host economic gold mineralisation within regional structures that intersect known stratigraphical and structural features of the Pine Creek Geosyncline. EL10367 forms a part of a regional package of tenements (AuQuest Project) that have a northwest trend, covering what the Company has called the Noonamah-Corroboree trend. Processing of Northern Territory Government supplied 400m spaced aeromagnetic and radiometric data has significantly enhanced the detail of the underlying geology and the subsequent interpretation of the prospectivity of that area.

Over the past two years, the Company's focus in the Northern Territory has been the development and subsequent operation of Stage 3 of the Quest 29 dump leach operation during 2003/04, and the completion of the resource drilling and feasibility study on underground mine development at Tom's Gully which will produce approximately 40,000ozpa of gold.

Approximately \$1.75m has been spent on ground at Tom's Gully and other tenements within the AuQuest Project, as part of the company's exploration strategy, over the previous 12-month period. The Feasibility Study on Tom's Gully Underground and is due for completion during November 2004.

Quest 29 and Tom's Gully are part of the AuQuest project, which covers approximately 1100 square kilometres of exploration licenses including EL10367. It is expected that exploration on these EL's will find additional open cut ores which can be treated through the Tom's Gully plant and exploration will focus on these EL's and targets on completion of the Feasibility Study.

Work completed on this tenement has comprised of literature reviews and initial data entry to GIS of historical work. A meeting with the native title claimants is hoped to be arranged shortly so field work can be undertaken in the near future.

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# **1. INTRODUCTION**

Sirocco Resources NL was listed on the Australian Stock Exchange on the 20<sup>th</sup> December 1996, following a recapitalisation of the failed Kakadu Resources NL Company. Additional capital raising was completed on the 5<sup>th</sup> June 1997, which allowed a series of exploration and evaluation programs to be initiated, around the existing infrastructure of Tom's Gully and also the Quest 29 Mining Leases. Sirocco Resources NL was renamed during 2002 after corporate restructuring to Renison Consolidated Mines NL, a feasibility study on reopening the Tom's Gully Mill and underground operation is currently being completed.

Previous work is being compiled into GIS format for target generation and to reduce repetition for the possibility of further Dump Leachable oxide resources and hopefully some higher grade material to supplement the underground mining.

Access to the tenement is via Rustler's Roost access road leading from Arnhem Highway, and then via secondary tracks. These tracks provide good access for 4WD vehicles during the dry season, however these tracks become impassable after heavy rain, and therefore no access is possible throughout the wet season.

**Figure 1 Tenement Location Map**



## **2. REGIONAL GEOLOGY**

EL 10367 is located within the Pine Creek Geosyncline, which has been interpreted as an intracratonic basin lying on an Archaean basement, and containing a 14 km thick sequence of Proterozoic sediments, accompanied by lesser volcanics, granitic plutons and dolerite intrusions. The Northern portions of the project area contain the oldest sediments The Mount Partridge Group that is unconformably overlain by the South Alligator Group, which comprises most of the tenement areas. The southern portion of the Project area is comprised of Burrell Creek Formation, which conformably overlies The South Alligator Group. Tertiary and Quaternary Soils and Gravel's unconformably overlie all the lower lying portions of the tenement areas, generally referred to as "Black Soils Regions". All of the Early Proterozoic sediments and volcanics in the Mount Bundey area were folded in a major deformation event dated around 1800 million years. The tenement is completely covered by Burrell Creek Formation and as such, just the underlying reprocessed magnetics are displayed in Figure 2.

### **2.1 The Mount Partridge Group**

#### **2.1.1 Wildman Siltstone**

The Mount Partridge Group is represented by the Wildman Siltstone, which is interpreted to be up to 1500m thick. In the Mount Bundey Region the Wildman Siltstone consists of laminated and banded shale, carbonaceous and often pyritic siltstone inter bedded with undifferentiated volcanics in up to 100m interbeds, minor dolomitic sediments may also be present. The sediments near the granite intrusion may also be hornfelsed. The Wildman Siltstone is interpreted to be prospective for large tonnage, low-grade gold deposits and small tonnage, high-grade deposits. Wildman Siltstone hosts the Tom's Gully gold deposit.

### **2.2 The South Alligator Group**

The Koolpin Formation, Gerowie Tuff and the Mount Bonnie Formation represent the South Alligator Group. The rocks of the South Alligator Group are considered to be prospective for either large tonnage, low grade gold deposits (such as that at the nearby Rustler's Roost gold mine) or small tonnage, high grade deposits.

#### **2.2.1 Koolpin Formation**

The Koolpin Formation comprises ferruginous siltstone and shale, which is commonly carbonaceous and pyritic. Chert bands and nodular horizons are common and lenses of ironstone occur occasionally, as haematitic breccias throughout the sequence into undisturbed quartz-veined siltstone and shale. Minor components of dolomite can also occur. The Koolpin is one of the most prospective units in the Mount Bundey Region for hosting mineralisation (West Koolpin, Taipan, BHS and North Koolpin Open Pits at Quest 29 are all within Koolpin sediments)

### **2.2.2 Gerowie Tuff**

The Gerowie Tuff conformably overlies the Koolpin and has similar characteristics of siltstones and shales but is not as iron rich. Within the Mount Bunday Region it is dominated by graded beds of siliceous tuffaceous mudstones grading to greywacke and arenite, diagenetically altered, up to 600m thick, and generally poorly mineralised. The highly siliceous component of the tuffs and arenites make them resistant to erosion, and they tend to form areas of high relief.

### **2.2.3 Mount Bonnie Formation**

The Mount Bonnie Formation conformable overlies the Gerowie Tuff and is dominated by a shallow marine sequence of interbedded and graded siltstone, chert and greywacke with occasional BIF's. The unit can be up to 600m thick and is generally iron rich and may be siliceous in places. The Mount Bonnie Formation hosts the Rustler's Roost deposit.

## **2.3 Finnis River Group**

### **2.3.1 Burrell Creek Formation**

Conformably overlying the Mount Bonnie Formation is the Burrell Creek Formation interpreted as a flysch sequence of fine to coarse marine sediments and appears to be part of continuous sedimentation process. Due to the lack of marker horizons and poor exposure the width of the unit is unknown but is thought to be >1000m. This Formation is considered prospective for large low-grade gold deposits as typified by the Batman deposit of Mount Todd. The potential also exists for small high-grade deposits similar to Possum and Happy Valley with John Shields GIGIAC Theory (Gold in Greywacke in Anticlinal Crests). Also high-grade deposits such as Bandicoot, Marrakai and the Ringwood line which all lie on a major deep-seated magnetic trend, Figure 2.

## **2.4 Intrusives**

### **2.4.1 Zamu Dolerite**

The Zamu Dolerite occurs as small bodies that are poorly exposed, as a result of its weathering some rubble boulders may be present at surface. It consists of altered quartz dolerite and gabbro and is generally narrow and broadly conformable to bedding as thin sills. The Zamu Dolerite is the only known suite of mafic intrusives that were emplaced prior to regional metamorphism and deformation. The Zamu Dolerite appears to have a controlling influence on the mineralisation at Quest 29 within the Koolpin sediments but this is not fully understood at this stage. Mineralisation is also hosted within this unit at Quest 29 and also at Chinese Howley.



### **2.4.2 Mount Bunday Granite & Mount Goyder Syenite**

The sedimentary sequences and the Zamu Dolerite are intruded by the Proterozoic Mount Goyder Syenite and Mount Bunday Granite which form a co genetic complex which crops out over about an 80km area. This intrusion is believed to have been the heat and fluid source for the mineralisation, which occurs throughout the local region. Their mineralogy and geochemistry suggests they are both differentiated from a common magma, which intruded into the gently south plunging folded belt of sediments.

A thermal metamorphic overprint associated with the southern margin of the Mount Bunday Granite intrusive has resulted in the development of both cordierite and andalusite, and probably was the generator for the local gold mineralisation. Further to the south of the Mount Bunday and Mount Goyder intrusive is possibly a second deep-seated pluton to the south as indicated by a roughly circular magnetic feature (Discussions with Williams Resources 1998).

## **2.5 Deformation & Metamorphism**

Regional deformation with north-northeast folding plunging gently south occurred around 1800 My, based on a rubidium-strontium analysis, causing metamorphism to greenschist, and sometimes higher to amphibolite facies. This event also resulted in the intrusion of thin sills of Zamu Dolerite, and the post – tectonic emplacement of the Mount Bunday Granite and Mount Goyder Syenite is a comparable cogenetic pluton dated at 1790 + 110 My in the region. Structural deformation of the metasediments is complex.

The major folding episode resulted in tight folds whose axes plunge southwest. However within these major folds the more incompetent beds, i.e. carbonaceous shales, have been deformed into localised complex structures. The granitic emplacement has also influenced the fold structures as can be seen on the regional geological map. Metamorphism to greenschist facies through dynamic compression associated with intense folding is common. The granitic emplacement and the associated structural deformation and generation of hydrothermal fluids are thought to have been responsible for most of the gold enrichment throughout the Pine Creek Geosyncline. eg. Cosmo Howley, Rustlers Roost, Toms Gully, Moline, Mt Todd and Quest 29.

## Figure 2 RTP Magnetics Map & GIS Data

### **3. PREVIOUS EXPLORATION**

The earliest known record of exploration in this area of the Mount Bundey region was briefly undertaken in 1979 by Optimal Mining/ ACA Howe Australia and then by Aquitaine Australian Minerals/ Pan D'Or Mining and Jimberlana Mining during the early 1980's. During 1983 and 1984 Talmina Trading held the tenement for EL2252.

During the late 1980's Australia Coal and Gold Holdings occupied EL4497 in which they used rock chip sampling and minor RAB drilling, as did Euralba Mining/Burmine and Carpentaria Gold (EL4165) Joint Venture. They also used stream sediment sampling. Cyprus Gold Australian Corporation/ Greenbushes and Moline Joint Venture also held EL4497.

During the early 1990's Carpentaria Gold held the tenements under EL5346, EL7166 and EL7389 in which they used costeaning, rock chip sampling, soil sampling, stream sediment sampling, trenching and drilling (both RC and diamond) as a means of searching for gold deposits. Stream sediment sampling was used successfully to find the nearby Tom's Gull Deposit.

In association with Euralba Mining/Burmine and Carpentaria Gold used stream sediment sampling and rock chip sampling and drilled RC holes within EL6214. Also during the early 1990's Normandy Exploration used stream sediment sampling within EL3019 and EL7569.

From the late 1990's until 2002 Territory Goldfields and Northern Gold drilled in EL8702, along with collecting samples of rock chips, soil samples and stream sediment sample for analysis.

Current Tenement Holders in the Project area include Northern Gold 1990-present, Valdora -Rustler's Roost Mining –Williams Inc. now called Valencia Ventures 1993-present, and Renison Consolidated Mines NL 1997-present.

This work is currently being compiled into GIS format for target generation and to prevent repetition with follow up work.

## **4. CURRENT EXPLORATION**

Work on this tenement has been restricted to Literature reviews for previous work and data entry of some of this information into GIS databases. BLEG & LAG soil samples over the tenement can be seen in Figure 2, however due to the extent of black soil cover it is uncertain how effective these methods have been at identifying any underlying mineralisation. Vehicle traverses have been undertaken to assess the access to the area, which was deemed to be reasonable for dry season access.

Magnetics and Radiometrics data has been reprocessed and reinterpreted to follow regional structures, which are seen to be fluid conduits for mineralisation within the region. This data is presented in Figure 2.

Now all of the titles that have been held up in native title have been granted a meeting with traditional owners will be scheduled so field work can begin at the start of the 2005 Dry Season.

## **5. REHABILITATION & ENVIRONMENTAL PROTECTION**

Before ground work can begin we must arrange a meeting with the traditional owners regarding access, we are endeavouring to arrange this currently.

## 6. NORTHERN TERRITORY EXPLORATION EXPENDITURE for MINERAL TENEMENT 2003\2004

*Section 1. Tenement type, number and operation name: (One licence only per form even if combined reporting has been approved)*

Type	<b>EL</b>
Number	<b>10367</b>
Operation Name (optional)	<b>AuQuest</b>

*Section 2. Period covered by this return:*

Twelve-month period:		If Final Report:	
From	<b>23/10/2003</b>	From	
To	<b>22/10/2004</b>	To	
Covenant for the reporting period:		<b>\$ 5,500</b>	

*Section 3. Give title of accompanying technical report:*

Title of Technical Report	<b>2004 Annual Report on EL 10367 AuQuest Project</b>
Author	<b>Scott Hall</b>

*Section 4. Locality of operation:*

Geological Province	<b>Pine Creek GeoSyncline</b>
Geographic Location	<b>Darwin</b>

*Section 5. Work program for the next twelve months:*

Activities proposed (please mark with an "X"):		<input type="checkbox"/> <b>Drilling and/or costeaning</b>
<input checked="" type="checkbox"/> <b>Literature review</b>		<input type="checkbox"/> <b>Airborne geophysics</b>
<input checked="" type="checkbox"/> <b>Geological mapping</b>		<input type="checkbox"/> <b>Ground geophysics</b>
<input checked="" type="checkbox"/> <b>Rock/soil/stream sediment sampling</b>	<input checked="" type="checkbox"/> <b>Other: Traditional Owner Meeting</b>	
Estimated Cost:		<b>\$6,000</b>

Section 6. Summary of operations and expenditure:			Data and Format Supplied in the Technical Report	
Exploration Work type	Work Done	Expenditure	Digital	Hard copy
Office Studies				
Literature search	X	\$1,200.00		
Database compilation		\$ 0.00		
Computer modelling		\$ 0.00		
Reprocessing of data	X	\$1,000.00		
General research	X	\$ 600.00		
Report preparation	X	\$ 500.00		
Other (specify)		\$ 0.00		
	Subtotal	\$3,300.00		
Airborne Exploration Surveys (state line kms)				
Aeromagnetics	kms			
Radiometrics	kms			
Electromagnetics	kms			
Gravity	kms			
Digital terrain modelling	kms			
Other (specify)	kms			
	Subtotal	\$		
Remote Sensing				
Aerial photography				
LANDSAT				
SPOT				
MSS				
Other (specify)				
	Subtotal	\$		
Ground Exploration Surveys				
<i>Geological Mapping</i>				
Regional				
Reconnaissance	X	\$1,200.00		
Prospect				
Underground				
Costean				
<i>Ground Geophysics</i>				
Radiometrics				
Magnetics				
Gravity				
Digital terrain modelling				
Electromagnetics				
SP/AP/EP				
IP				
AMT/CSAMT				
Resistivity				
Complex resistivity				
Seismic reflection				
Seismic refraction				
Well logging				
Geophysical interpretation	X	\$ 500.00		
Petrophysics				
Other (specify)				

<b>Geochemical Surveying and Geochronology</b>							
<i>(state number of samples)</i>							
<b>Drill (cuttings, core, etc.)</b>							
<b>Stream sediment</b>							
<b>Soil</b>							
<b>Rock chip</b>							
<b>Laterite</b>							
<b>Water</b>							
<b>Biogeochemistry</b>							
<b>Isotope</b>							
<b>Whole rock</b>							
<b>Mineral analysis</b>							
<b>Laboratory analysis (type)</b>							
<b>Petrology</b>							
<b>Other (specify)</b>							
Ground Exploration Subtotal					<b>\$1,700.00</b>		
<b>Drilling</b> (state number of holes & metres)							
<b>Diamond</b>		<b>holes</b>	<b>metres</b>				
<b>Reverse circulation (RC)</b>		<b>holes</b>	<b>metres</b>				
<b>Rotary air blast (RAB)</b>		<b>holes</b>	<b>metres</b>				
<b>Air-core</b>		<b>holes</b>	<b>metres</b>				
<b>Auger</b>		<b>holes</b>	<b>metres</b>				
<b>Other (specify)</b>		<b>holes</b>	<b>metres</b>				
Subtotal					<b>\$</b>		
<b>Other Operations</b>							
<b>Costeaining/Trenching</b>							
<b>Bulk sampling</b>							
<b>Mill process testing</b>							
<b>Ore reserve estimation</b>							
<b>Underground development (describe)</b>							
<b>Mineral processing</b>							
<b>Other (specify)</b>							
Subtotal					<b>\$</b>		
<b>Access and Rehabilitation</b>							
<b>Track maintenance</b>							
<b>Rehabilitation</b>							
<b>Monitoring</b>							
<b>Other (specify)</b>							
Subtotal					<b>\$</b>		
<b>TOTAL EXPENDITURE</b>					<b>\$5,000.00</b>		

I certify that the information contained herein, is a true statement of the operations carried out and the monies expended on the above mentioned tenement during the period specified as required under the *Northern Territory Mining Act* and the Regulations thereunder.

☒ I have attached the Technical Report

1. Name: Scott Hall

2. Name:

Position: Project Geologist

Position:

Signature:



Signature:

Date: 08/10/2004

Date:

## 7. CONCLUSION AND PROPOSALS

Following the compilation of all historical data to GIS and associated target generation ground work on the tenement will begin. Interpreted structural and stratigraphic targets currently identified include anticlinal folding. A secondary feature to be interpreted is the spot high within the central section of the tenement.

Potential for finding further minable resources within the Mount Bundey Area is still considered very high.

Forward Work program expenditures contained in Section 6.5 above totalling \$6,000.



## 8. REFERENCES

AGSO 1998. SD5204 Darwin Digital Data, Second Edition.

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