ABSTRACT

This Annual Report for EL 46/2003 Heemskirk, covers the period from 10 January 2018 to 9 February 2019. This is also the final report for the exploration licence as it is relinquished from COB 9 February 2019. The St Dizier tin deposit is being retained under Mining Lease 10M/2017, granted 20/12/2018.

The Heemskirk licence area contains historical occurrences of copper, tin and gold. Previous exploration in the area includes extensive stream sediment sampling, especially in the central and southern areas, geological mapping and a range of geophysical surveys, which have revealed numerous anomalies. Some of these anomalies have been drill tested and some remain untested or inadequately drilled, the licence area remains prospective for the discovery of base metal mineralisation.

With Stellar Resources’ focus on the Heemskirk Tin Project at Zeehan the tin prospects on EL 46/2003 have assumed more significance. In particular, the St Dizier Prospect is the priority target due to its potential as an additional source of tin ore for a Zeehan tin processing plant and has been retained under a Mining Lease.

Total expenditure on EL46/2003 during 2018 totalled $20,908.

Stellar expenditure for the original area of EL46/2003 from 2005 to 2019 totalled: $3,164,886.
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APPENDIX
Heemskirk Projects Exploration Summary 10Feb19
1. INTRODUCTION

1.1. EXPLORATION RATIONALE & GEOLOGICAL SETTING

The licence covers the southern end of the Arthur Lineament and the northern and eastern contacts and aureole of the Heemskirk Granite. The northern granite aureole hosts the St Dizier magnetite-tin Skarn Deposit and several other small skarns and is considered prospective for other similar deposits. In the southeast, the aureole also hosts the Avebury Nickel Deposit. The Heemskirk Granite itself also hosts several small greisen deposits, some of which are in the EL.

In the north the EL covers the southern end of the Arthur lineament, including the Bowry Formation. The Bowry Formation hosts scattered stratiform magnetite-pyrite-chalcopyrite-gold mineralisation. At Alpine significant copper mineralisation has been delineated. A VTEM survey has identified other targets, which warrant follow up exploration.

The licence is considered highly prospective for magnetite-pyrite-chalcopyrite-gold mineralisation in the north, for magnetite-tin skarn deposits in the aureole of the Heemskirk Granite and for tin greisen deposits in the granite in the southwest.

With Stellar’s focus on the Heemskirk Tin Project at Zeehan the tin prospects in EL 46/2006 have assumed more importance as a potential source of additional mill feed for the proposed tin treatment plant at Zeehan. Mining lease 10M/2017 over the St Dizier Deposit was granted on 20/12/2018.

1.1.1. Geological Setting

EL46/2003 covers part of the Meso-proterozoic rocks of the Zeehan-Waratah belt (mainly Oonah and Crimson Creek Formations) including the southern end of the Arthur Lineament Metamorphic Complex and the Dundas Trough. The Devonian Heemskirk Granite, a fractionated biotite granite - muscovite granite, intrudes these rocks. The interaction of this granite with reactive host rocks is the source of skarns and is thought to be the source of most of the base metal mineralisation in the Zeehan area.

The Proterozoic Oonah Formation rocks are mainly quartzite and shale but there are also some carbonate rich beds. All of these rocks have been regionally metamorphosed with some adjacent to the granite being affected by contact metamorphism. There are some Cambrian sedimentary and ultramafic rocks southeast of the licence, which have also been affected by the granite. These host the Avebury Nickel Deposit.

North of the Heemskirk Granite the Proterozoic rocks have a northwest trend, paralleling the Heemskirk Anticlinorium. To the west, where visible, a sequence of Palaeozoic rocks form the north trending Duck Creek-Healey Creek Synclinal Zone but most of this portion of the tenement is obscured by Tertiary basalts and alluvial deposits. Jurassic dolerites of the Eureka Cone Sheet also cover a portion of the Proterozoic rocks along the northeast edge of the tenement.

The St Dizier Deposit is located at the western end of a 3km long skarn that parallels the east – west trending granite contact. To the east along the skarn are the Central and Big H prospects. The St Dizier Deposit is a carbonate metasomatic skarn hosted in hornfelsed Precambrian sedimentary rocks on the northern edge of the Devonian Heemskirk Granite. The deposit forms a roof pendant located in a tight synformal trough on the surface of the granite. Hornfelsed quartzite forms the hangingwall to the skarn and hornfelsed slates the footwall. The skarn is vertically dipping, east-west striking stratabound body extending to a depth in excess of 200m from surface. Mineralisation extends over a 400metre strike length and varies between 3 and 40 metres in thickness. The skarn consists of magnetite-serpentinite-diopside and actinolite with minor pyrrhotite-pyrite-arsenopyrite-cassiterite-schoenfliesite-sheelite-bismuthinite. Tin mineralisation is zoned with dominantly cassiterite in the west and increasing amounts of schoenfliesite and other exotic tin species to the east.
1.2. LICENCE

Tenement number: 46/2003

Tenement name: Heemskirk

Tenement location: The licence consists of two blocks, following the 2008 relinquishment of the central part of the licence and further relinquishment during 2017 (Figure 1). The northern block (80km²) is centred 24 km northwest of Zeehan with main road access from the Heemskirk Road, which passes centrally through the block. The southern block (13km²) is centred 7km west of Zeehan with access from the Trial Harbour Rd in the south of the block. Most of the EL area is Crown Land with approx. 5% being private agricultural land.

The crown land is covered by areas of nothofagus and eucalyptus rainforest, dry eucalyptus forest, scrub, heathland and button grass plain. Access is provided by the Heemskirk Road from Zeehan, the Trial Harbour Road, the Granville Harbour Road, the Corinna Road to Waratah in the north, and old bush tracks. Some areas of the licence are only accessible by foot.

Reporting period: 10 January 2018 to 9 February 2019.

Licence date: 10 February 2018 to 9 February 2019.

Tenement holder: Rubicon Min Tech Ventures Pty Ltd., a wholly owned subsidiary of Stellar Resources Ltd.
1.3. LOCATION OF LICENCE

Figure 1. EL46/2003, Location Map
1.4. LAND TENURE

SCHEDULE

LAND DISTRICT: MONTAGU
VICINITY: HEEMSKIRK RIVER (centred 24km NW, and 7km W of ZEEHAN)
MUNICIPALITY: WEST COAST
TENEMENT: EXPLORATION LICENCE 46/2003 93km²
HOLDER: RUBICON MIN TECH VENTURES PTY. LTD.

Northern block:
Commencing at a northwest corner at grid coordinates 334 000 metres E 5 374 800 metres N, thence grid east to 343 890 metres E, grid south to 5 375 000 metres N, again grid east to 345 000 metres E, again grid south to 5 373 000 metres N, again grid east to 347 000 metres E, again grid south to 5 371 000 metres N, again grid east to 349 000 metres E, again grid south to 5 369 000 metres N, again grid east to 349 000 metres E, again grid south to 5 366 000 metres N, again grid west to 347 000 metres E, again grid north to 5 367 000 metres N, again grid west to 339 000 metres E, to a point 200 metres inland from the high water mark on the West Coast of Tasmania, thence in a general north-westerly direction 200 metres inland from, and parallel to, that high water mark to 334 000 metres E, again grid north to 5 378 000 metres N, again grid east to 335 000 metres E aforesaid, thence again grid north to the point of commencement.

Southern block:
Commencing at a northwest corner at grid coordinates 352 000 metres E 5 363 000 metres N, thence grid east to 357 000 metres E, grid south to 5 362 000 metres N, again grid west to 354 000 metres E, again grid south to 5 358 000 metres N, again grid west to 352 000 metres E, thence again grid north to the point of commencement.

Coordinate datum - AGD66, AMG Zone 55.

EXCLUSIONS

(a) Any land owned or leased by the Commonwealth of Australia.

(b) Mining Leases amounting to 79ha (more or less) which were applied for or in force prior to the date of application for this licence.

c) Areas of private land which either have been, or are in the process of being, purchased by the Crown under the Regional Forest Agreement - Private Forests Reserves Program and / or private land over which the landowners have agreed, or are in the process of agreeing, to place a covenant or management agreement for conservation purposes under the Regional Forest Agreement - Private Forests Reserves Program.

LAND TENURE

The area comprises: Private Property
Crown land
Multiple Use State Forest
Mount Heemskirk Regional Reserve
Four Mile Beach Regional Reserve
MDC Informal Reserves
HEC Land

The licence area contains areas, which are listed (including listed on an interim basis) on the Register of the National Estate kept under the Australian Heritage Commission Act 1975.
Figure 2. EL46/2003, Public Land Classification
Figure 3. EL46/2003, Regional Geology (MRT)
2. WORK UNDERTAKEN 2005 - 2018

Stellar Resources Exploration Work:

2005 - 2012: MRT digital geology and geophysics datasets, DPIWE topographic data as well as data captured from open-file company reports were reviewed. The capture of information from previous tenement holders (CRAE, Aberfoyle, Cominco, Placer, Minops, Pickands Mather, ACI, “Consolidated Syndicate”, ANZECO, Geophoto Resources, Goldfields/RGC, Geopeko, New Holland Mining, Outokumpu, Goldstream Mining and Titan Resources) from MRT open-file reports was completed.

2006: Drilling: 1 DD hole at East Granville
16 DD holes at the Alpine Prospect

2007: Drilling: 3 DD holes at Alpine Prospect
7 RC holes at North Gourlay’s Ck. Prospect
3 DD holes at St. Dizier Deposit
1 DD hole at Devises Prospect

Geophysics: Aeromagnetics survey over area north of 5399800mN, in northern part of EL.

2008: Geophysics: VTEM Survey over Bowry Formation/Gourlay’s Ck area in northwest of EL.

2009: Partial relinquishment of portion of Licence deemed unprospective.

2010: Geophysics: Re-interpretation of Geophysical data
Ground magnetic survey of Gourlay’s Ck South targets.

2011: Drilling: 2 DD holes at Gourlay’s Ck South targets.

2012: Capture of remaining MRT open-file data.

2013: Database development and resource modelling of St Dizier Deposit.

2014: Resource Estimate Release, St Dizier Deposit
Geochemical Surveys, St Dizier Deposit and area
Environmental Studies, St Dizier Deposit
Archaeology Survey, St Dizier Deposit
Costeaning & Bulk Sampling, St Dizier Deposit
Drilling: 6 DD holes, One (BH01) at Big H Prospect and five (ST04 – ST08) at St Dizier Metallurgical Testwork, St Dizier Deposit
Mine Planning & Project Scoping Study, St Dizier Deposit

2015: Completion of Metallurgical Testwork, St Dizier Deposit
Completion of Mine Planning & Project Scoping Study, St Dizier Deposit
Surface water flow monitoring, St Dizier Deposit Area
Review of exploration targets: 11000, St Dizier alluvials, Globe Mine SW

2016: Seasonal surface water surveys, St Dizier Deposit Area
Seasonal flora and fauna surveys, St Dizier Deposit Area

2017: Seasonal surface water surveys - in-stream biota, St Dizier Deposit Area
Mining Lease application, St Dizier Deposit Area

Note: See relevant Annual Technical Reports for data.
Figure 4. EL46/2003, Stellar Work 2005 - 2018
3. ACTIVITIES COMPLETED DURING THE REPORTING PERIOD

MINING LEASE GRANT

Mining Lease 10M/2017 over the St Dizier tin deposit and adjacent skarn zone was granted on 20/12/2018 (see figure 5).

Figure 5. ML 10M/2017 St Dizier Plan

4. DISCUSSION OF RESULTS

No field work was undertaken for the period 10/02/2018 to 9/02/2019.
5. EXPENDITURE

Expenditure for 2018 on EL46/2003 totalled $20,908. See expenditure break down below in Table 1.

Table 1. EL46/2003, 2018 Expenditure Breakdown

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<td><strong>SUPPORT COSTS</strong></td>
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</tbody>
</table>

Stellar expenditure for the original area of EL46/2003 from 2005 to 2019 totalled: $3,164,886.
6. REFERENCES


Danyushevsky, L. 2000. Sulphide inclusions in olivine phenocrysts from primitive magmas, in Ore Solutions Issue 8, CODES.


**Keywords**

Location: Heemskirk
Mineralisation environment: Skarns, Greisens
Minerals: Chalcopyrite, Gold, Cassiterite, Arsenopyrite, Magnetite
Exploration methods: Geochemistry, Costeaning, Bulk sampling, Drilling
Mine/prospect name: St Dizier
Stratigraphic name: Oonah Formation, Arthur Metamorphic Complex, Bowry Formation, Heemskirk Granite
Lithologic name: sandstone, quartzite, phyllite, schist, granite, magnetite-serpentinite-diopside skarn, quartz
Geological Province: Dundas Trough, Arthur Lineament
Geological age: Lower Neoproterozoic, Palaeozoic
APPENDIX

Heemskirk Projects Exploration Summary 10Feb19