

# Annual Technical Report for ML 30184 “Harts Ranges”

For the Period 10/12/2014 to 09/12/2015

Holder: Hanitro Pty Ltd

Operator: Tamas Kapitany

Commodity: Titanite (Sphene)

Map: 77/1 Quartz

Author: Cameron McKenzie, Tenements Officer

Contact: Ph. (03) 5998 2493, Fax (03) 5998 2685 Email: [mining@crystal-world.com](mailto:mining@crystal-world.com)

Date 22/12/2015

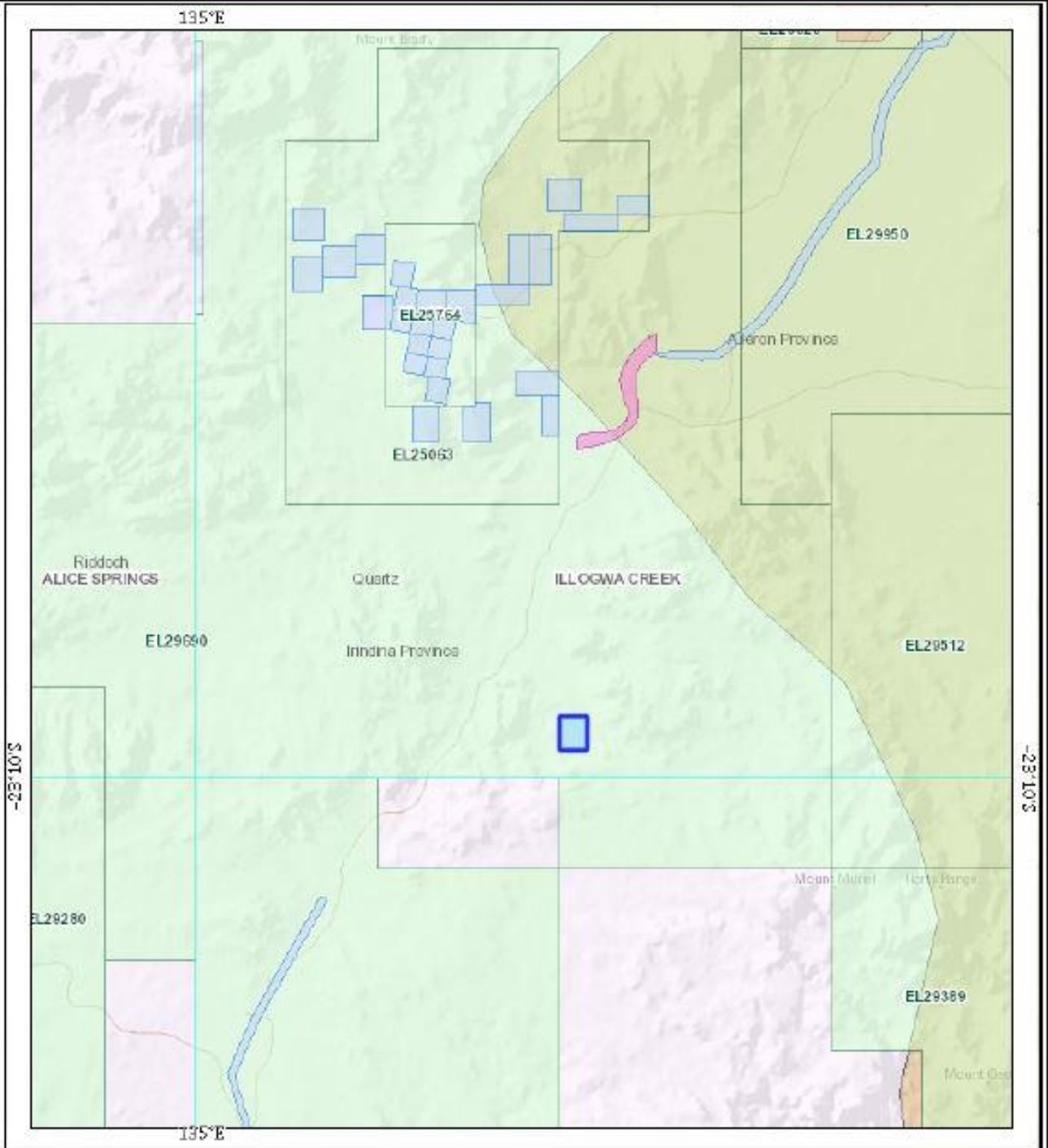
## 1. ABSTRACT

Hanitro Pty Ltd purchased the tenement from Imperial Granite and Minerals Pty Ltd on the 22<sup>nd</sup> of January 2015 for the purpose of Titanite (Sphene) extraction. Over this annual period, the site was explored briefly to locate the past diggings, inspect access tracks and make recommendations for future works. The site will be further explored in the 2015-16 annual period with steps taken to work the site and extract Titanite (Sphene) material once the required documentation has been approved.

## 2. LOCATION AND SITE HISTORY

ML 30184 is located within the Harts Ranges and is 36 Ha in size. Hanitro Pty Ltd recently the tenement from Imperial Granite and Minerals Pty Ltd on the 22<sup>nd</sup> of January 2015 for the purpose of Titanite (Sphene) extraction. There seems to be a distinct lack of site history information available from the NT Department of Mines and Energy. The site was originally owned and operated by Lotway Investments Pty Ltd before its sale to Imperial Granite and Minerals Pty Ltd who applied for the tenement in 2001 and was subsequently granted the tenement in 2013. Since 2013 Imperial Granite and Minerals Pty Ltd has only undertaken simple geological mapping and hand sampling over the site with a view to further work the site by creating a small, open-cut mine to explore and extract Titanite (Sphene) material however these works never went ahead.

Preparation and quality control of hand sampled specimens by Imperial Granite and Minerals Pty Ltd determined that the Titanite (Sphene) material is of a similar to higher quality when compared to the majority of gemstone quality specimens on the market.



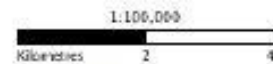
© Northern Territory Government.

This map is generated from the STRIKE web mapping application for information purposes only. No guarantee of accuracy or completeness is provided.

Titles and Geoscience Data sourced from the Northern Territory Government Department of Mines and Energy, Department of Land Planning and the Environment and the Department of Natural Resources

Topographic data sourced from Geoscience Australia and Dept of Land Planning and the Environment

**Disclaimer:** The Northern Territory Government does not warrant this map as definitive, nor free from error and does not accept liability for loss caused by, or arising from reliance upon information provided herein. The information presented on this map is current to 'some date'. Future modifications may be made as new information becomes available.



Datum: GDA94  
 Printed: 06 Feb 2015  
 Published by, and on the authority of,  
 the:  
 Department of Mines and Energy  
 GPO Box 4550, DARWIN NT 0801



Figure 1: 1:100,000 map showing tenement. Source STRIKE

### 3. ACTIVITIES COMPLETED DURING THE REPORTING PERIOD

A 5 day preliminary fieldtrip to the site was undertaken by two qualified geologists in July 2015 to investigate the current state of the access track and establish locations of previous historical work. Access from the main station road is a rudimentary two wheel track passing through rough terrain and in many cases is barely visible due to lack of use. Figure 2 shows a section of track that is clearly visible, other sections pass through dry creek beds and are harder to navigate. All machinery would have to be walked in along this track and could not be floated directly to the workings.

The workings themselves are located on the edge of a low escarpment trending roughly south-east to North West.

The largest “pit” has been back-filled and many other smaller workings are located in the immediate area, both on the face of the escarpment and on the plateau above it. Visual inspection and previous local field experience show that the epidote deposits occur as elliptical “pods” in the Riddock Amphibolite and don’t seem to continue at length or at depth. The area has been well worked by amateur fossickers for many years as shown by the numerous shallow workings scattered around the tenement. The area however is abundant with epidote mineralization and further deposits would exist beyond the surface exposures with potential for lapidary grade through to museum grade epidote, feldspar and titanite specimens

### 4. EXPENDITURE

Admissible Expenditure	Works undertaken	\$AU Claimed
A. Geological activities and prospecting	Field trip 5 days, 2 people	10,000
H. Office studies	General Background/Desktop study of site and associated published literature	1,000-
I. Overheads (not to exceed 15% of sum of A-H.	Administration	1,000-
<b>K Total Expenditure Claimed</b>		<b>12,000-</b>

### 5. CONCLUSIONS AND RECCOMENDATIONS

The site will be further explored in the 2015-16 annual period with steps taken to work the site and extract Titanite (Sphene) material once the required documentation has been approved.

## 6. Appendices



Figure 2. Access track



Figure 3 Main workings (backfilled)



Figure 4 View north across to main workings





Figure 5 View west from main workings