

# Technical Reporting

**Tenure:** EL28497- "South St Vidgeon"

**Group Report ID:** GR260-12

**Title:** Annual Report

**Report Period:** 28/2/ 2016 to 27/2/ 2017

**Project Name:** Roper Valley Iron Ore Project (previously Roper River Iron Ore Project)

**Title Holder:** Northern Territory Iron Ore (NTIO) Pty Ltd

**Title Operator:** Northern Territory Iron Ore (NTIO) Pty Ltd

**Personal Author:** Anthony Ryall

**Report Type:** Annual

**250K Mapsheet/s:** Lower- Central Urapunga (SE53-10)

**100K Mapsheet/s:** N/A

**Geological Province:** Within the West Macarthur Basin on the southern margin of the Urapunga Fault Zone and forming part of the Bauhinia shelf.

**Stratigraphic Name:** Mesoproterozoic Roper Group: Munyi Member and Sherwin Formation

**Target Commodity:** Iron Ore

**Other Commodities:** N/A

**Purpose for which Titles are held:** Iron Ore Exploration

**Title history;** EL28497 comprises 111 sub blocks, was granted to Sherwin Iron (NT) Pty Ltd on 31<sup>st</sup> August 2011 and expires 31<sup>st</sup> August, 2017.

**Location, physiography and access:**

EL28497 is located in rugged country approximately 140 kms east of Mataranka and accessed south of the Roper Hwy near Roper Bar. Access to date has been limited, even by helicopter, apparently due to rugged and heavily vegetated terrain..

**Geology Setting:** The Munyi Member within the Roper Group lies above the Hodgson sandstone and well above the Sherwin Formation. Munyi Member is a succession of ferruginous sandstone, siltstone with minor conglomerate and minor pisolitic ironstone. It is 20 metres thick and overlain by siltstones of the Corcoran Formation. Ferenczi 1997 and 2001 considers Munyi Member to be the other potential

source of economic iron oxide mineralisation at Roper River region. In BMR drillhole number (Urapunga 5) four ironstone beds are logged in the Munyi Member over a 10 metre interval of which the uppermost is oolitic.

**Exploration/Mining History:** EL28497 sampling was included in a two-day programme of helicopter based rock chip sampling in early 2012 mostly conducted on EL30618. The single sample result on EL28497 returned only 26.9% Fe, assumed Munyi Member.

**Exploration Rationale:**

**EL28497** contains Munyi Member of the Mesoproterozoic Roper Group that includes the only iron oxide horizons outside Sherwin Formation that may be economic. The isolated and difficult rugged access along with apparent lack of high grade ironstone is challenging. In addition some of the Sherwin Formation may lie within AAPA certified areas

**Work Completed:** No field work was completed during the current year

**Results:** None

**Conclusions/Recommendations:** Lowest priority of all ELs at present for reasons stated. However further helicopter reconnaissance is warranted before any final decision made or programme of on ground work planned.

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## REFERENCES

Abbott, S.T., Sweet, I.P., Plumb, K.A., Young, D.N., Cutovinos, A., Ferenczi, P.A., Brakel, A., and Pietsch, B.A., 2001. Roper Region: Urapunga and Roper River Special, Northern Territory (Second Edition). 1:250 000 geological map series explanatory notes, SD 53-10, 11. Northern Territory Geological Survey and Geoscience Australia (National Geoscience Mapping Accord).

Dunn, P. R. Explanatory notes, Urapunga 1:250,000 geological Sheet, Northern Territory. (BMR Explanatory Notes and Map) Published in Canberra : Bureau of Mineral Resources, Geology and Geophysics, 1963.

Ferenczi, P.A., 1997. Geological Investigation of the Roper River Iron Deposits Northern Territory Geological Survey Technical Report GS97-004.

Johnstone, I., 2010. Roper River Iron Ore Project EL 24102, Mt Davidson. Interim: Third Annual Report.

Orridge, G.R., 1993. Exploration Licences 7137, 7240, 7241 and 7242 Roper River Area Northern Territory. Annual Report: 1992. Geonorth Pty Ltd: Northern Territory Department of Mines and Energy Open File Company Report CR1993-0154.

Sherwin Iron Ltd: Annual Exploration Reports: EL24101 (2010 to 2015) for Roper River Iron Ore Project.

Figure 1 Roper Valley Iron Ore Project – Tenement Plan

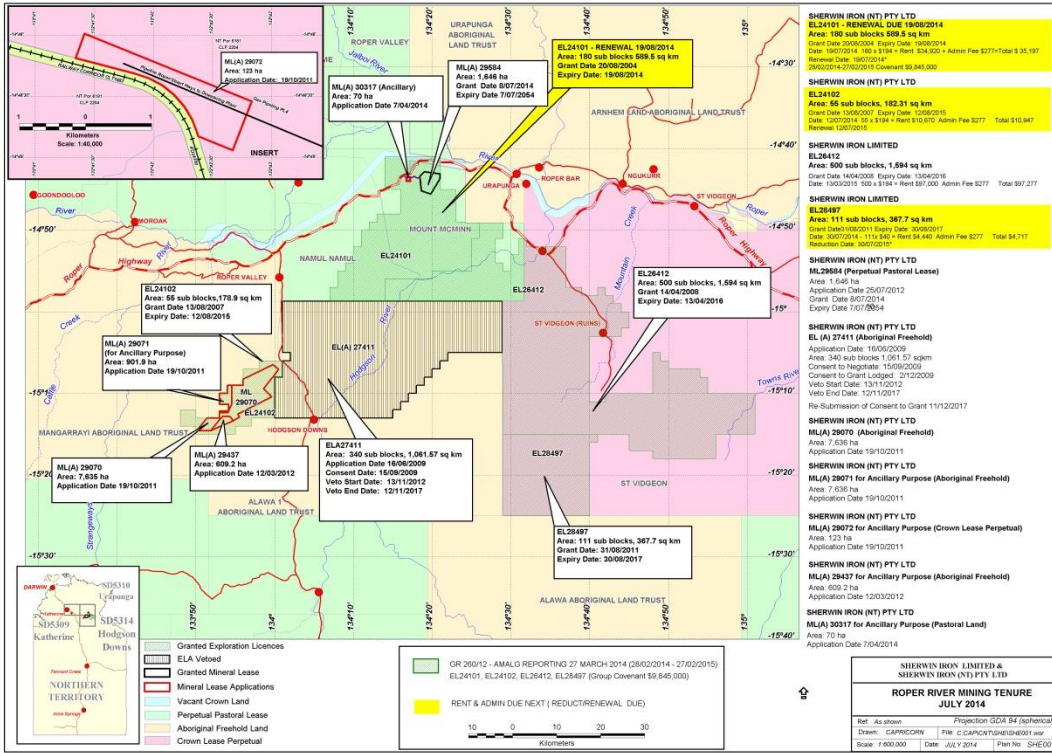
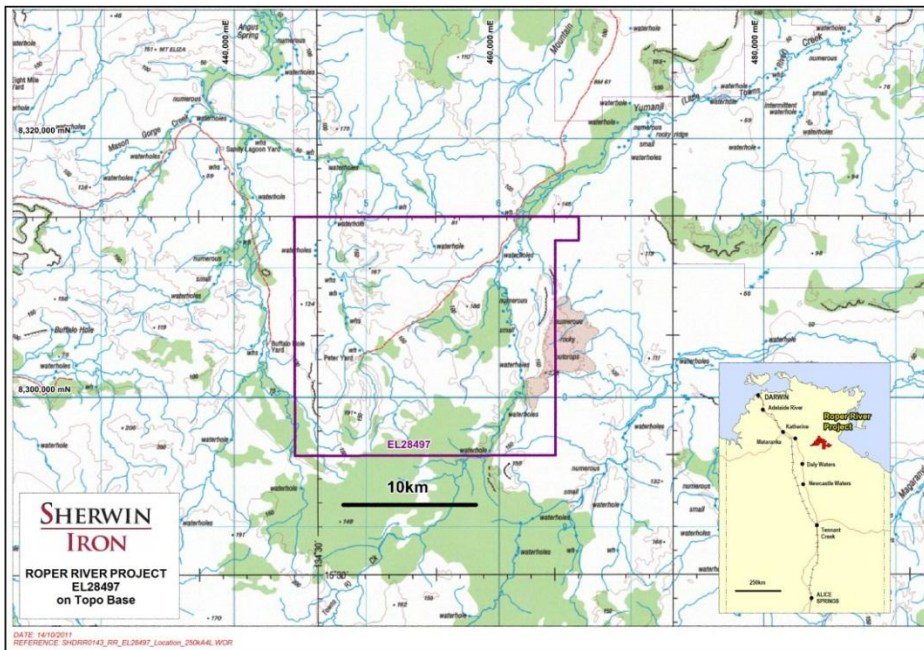


Figure 2 EL28497 Tenement Plan



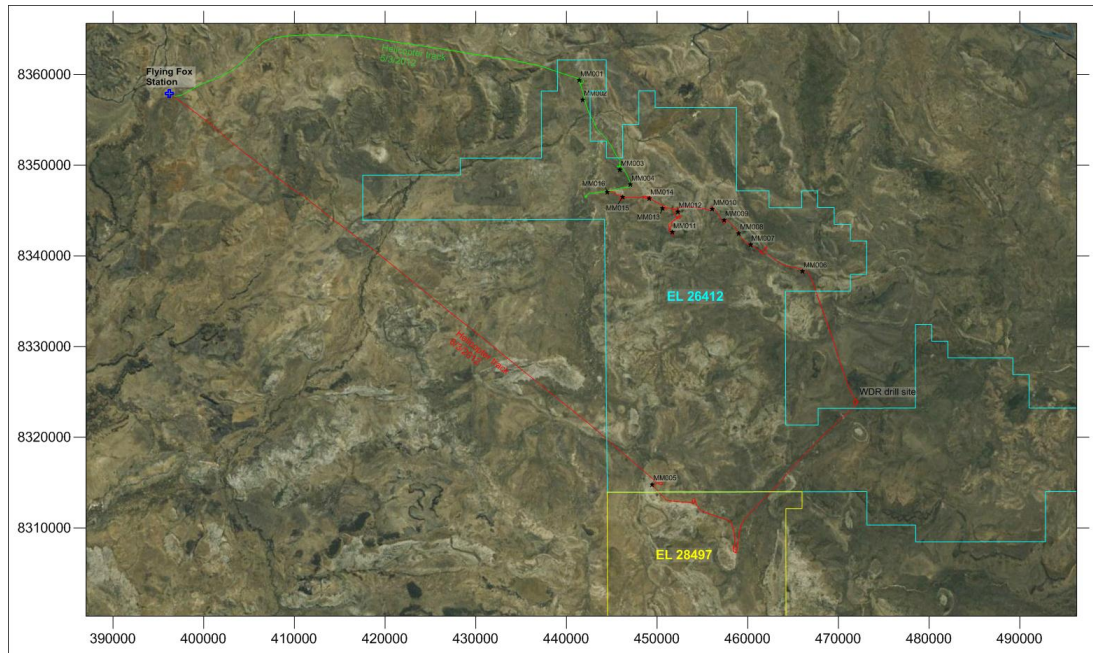


Figure 3: EL28497 : Helicopter Rock Chip Survey