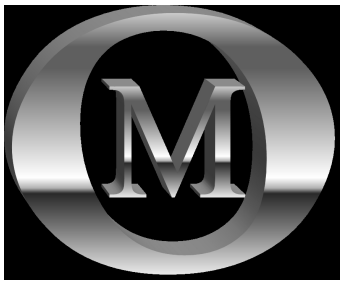

OM Manganese Ltd

EL 22786
Attack Creek

Annual Exploration Report for Period Ending 25/03/2007

Report Compiled By:

Craig Reddell
Amit Eliyahu

1 Tenement Details

The tenement was granted on 24/03/03 and has details as listed in the table below.

Project	EL Number	Blocks (Remaining)	Area (Remaining)	Grant Date (Partial Surrender)
Attack Creek	22786	34	106.73 sq km	24/03/2003
	22786	(20)	(62.78 sq km)	(14/06/2006)

Table 1: Tenement Details

2 Geology

The Attack Creek project contains a sedimentary sequence analogous to the Bootu Creek area that hosts the Bootu Creek manganese deposits. The tenement is interpreted to contain sequences of sandstones and siltstones which have the potential to host manganese mineralisation. A detailed geological description is included in the attached Project Review. The diagram below shows the tenement area with the NTGS mapping of the Tennant Creek sheet.

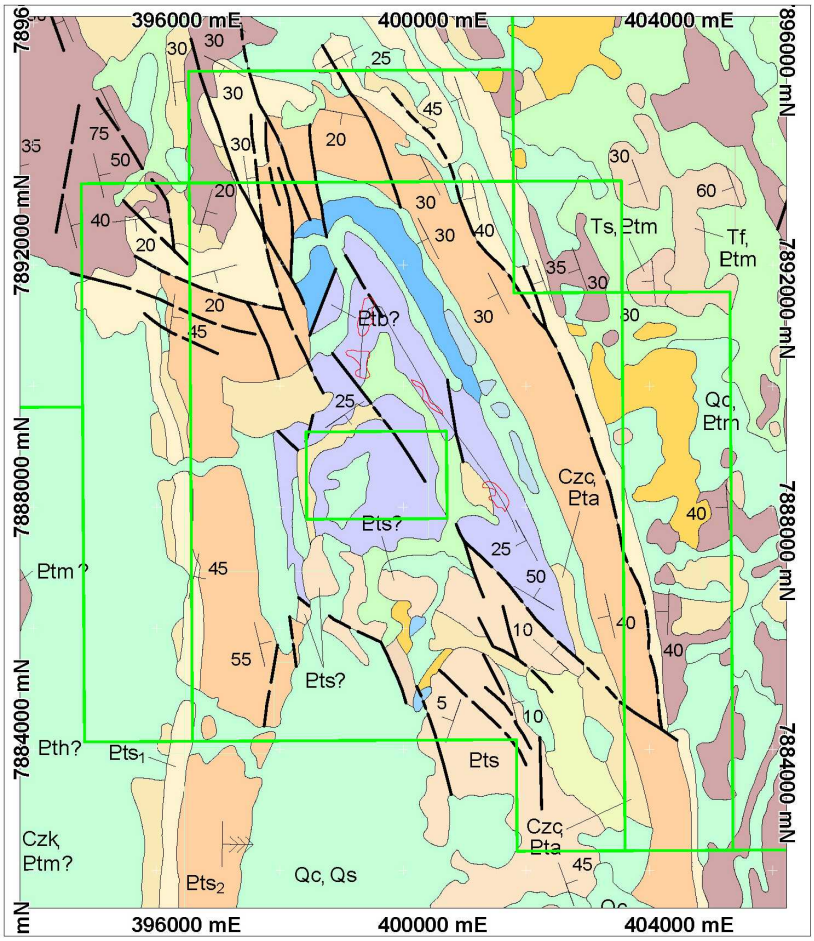

Figure 1. Tenement Geology

3 Previous Work

Previously, only regional reconnaissance via a field visit in 2004/05 had been conducted over the tenement area.

4 Work Completed During the Reporting Period (Year 4)

OM Manganese commenced a satellite-borne ASTER spectral study over the project area in an attempt to identify possible Mn mineralisation targets, prospective stratigraphy and contacts, and prospective structures.

The Advanced Thermal Emission and Reflection Radiometer (ASTER) can be considered to be the geological successor to Landsat TM. The ASTER instrument collects data in 14 bands and is described in detail in the attached Project Review.

Mapping of ferrous iron spectra proved useful in identifying ironstone and disseminated Mn in siltstone and sandstone, though not as distinctively as in the Bootu Creek Project area. Mapping for Mg(OH) abundance and for the dolomite spectral signature identified the entire Attack Creek Formation dolomite unit, though with mixed results in identifying dolomitic-siliclastic units.

Reconnaissance field work was conducted in late November 2006 to test targets derived from the ASTER spectral study and evaluate its value as an exploration tool over the project area, to advance our geological understanding of the Mn mineralisation style and establish the physiography of the project area for access and planning of logistical aspects of future exploration activities (Figure 2).

Conclusions from the above program were that the project area is prospective for Mn mineralisation and under-explored. ASTER was successful in identifying the one known Mn mineralised outcrop (A) and added three new zones of disseminated Mn mineralisation (B,C,D see Figure 3).

A new database of GPS located geological field observations, rock chip samples, field photography and mapped and unmapped access tracks was established over the project area. 19 Rock chip samples were collected for geochemical analysis, petrological and spectral signature studies.

The spectral studies and field reconnaissance work was completed by consulting geologist Amit Eliyhu and is reported in detail in the attached Project Review.

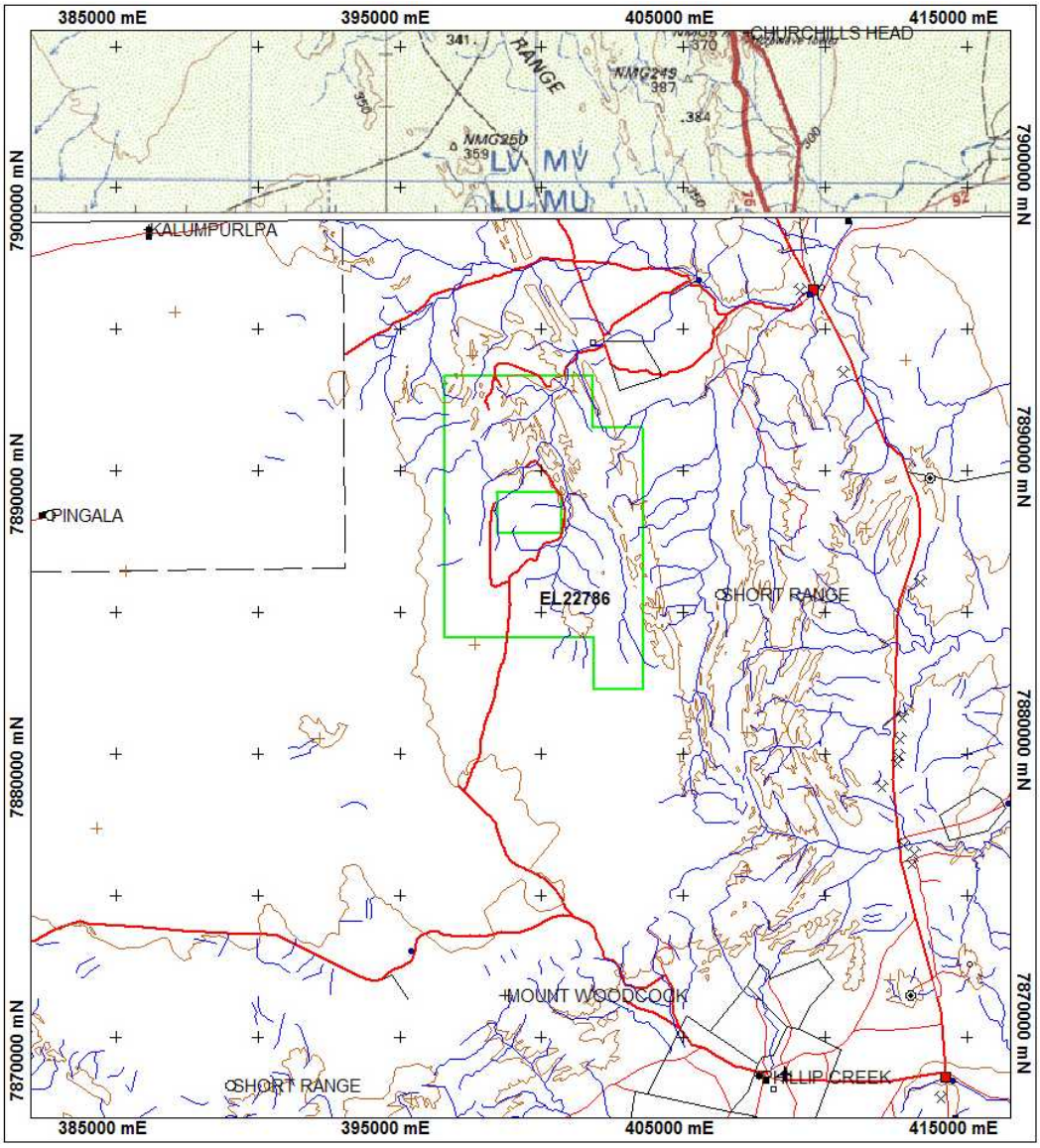

Figure 2. Project Location and Access Plan.

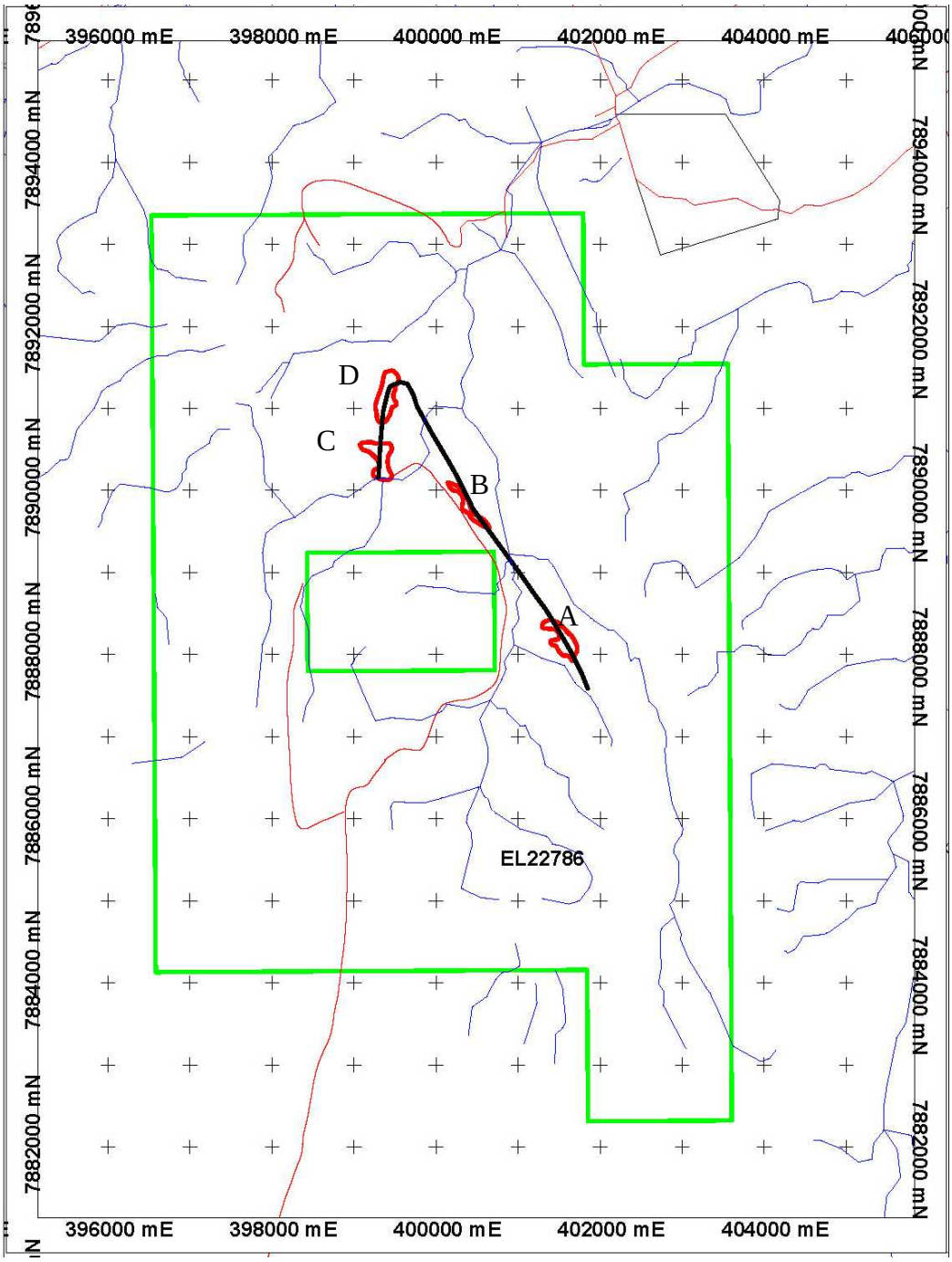

Figure 3. Prospective Contact and Identified Mn Mineralisation

5 Expenditure Incurred for Year 4 (to 23 Mar-2007)

G.I.S. -	Spectral data and processing	$ 1,965
	Interpretation	$ 2,145
Field Work -	Reconnaissance and mapping	$ 6,160
Project Assessment -	Review and report	$ 3,575
Tenement Admin -	Bichard Tenement Services	$ 700
Overheads (10%) -	Management and vehicles	$ 1,455
Total	Year 4	$16,000

6 Planned Work Program for Year 5 (to 23 Mar-2008)

The OM (Manganese) Ltd exploration program for Year 5 includes -

1. Advanced Spectral Mapping - obtaining the spectral signature from ASTER dataset of identified Mn-Fe-rich mineralisation and completing spectral mapping of TIR bands.

2. Regional Study - Completing a regional structural study over the Attack Creek project area based on re-gridded magnetic and radiometric datasets.

3. Petrological Study – geochemical, mineralogy and textural properties of Mn mineralisation samples collected during recent field reconnaissance.

4. Geological Field Mapping - map areas of specific interest at 1:20,000 over aerial photography or Ikonos images.

5. Geophysical Study - determine most appropriate follow up geophysical methodology to define drill targets.

Full detail of above programs described in attached Project Review by Amit Eliyahu, January 2007.

7 Planned Expenditure for Year 5 (to 23 Mar-2008)

Advanced Spectral Study -	Processing	$ 2,100
	Interpretation (2 days)	$ 1,400
Regional Study -	Re-gridding of datasets	$ 2,100
	Interpretation (2 days)	$ 1,400
Petrological Study	Prep, analysis and reporting (5)	$ 1,500
Field Mapping	Ikonos data and otho-rectification	$ 6,500
	1:20k geology map (10 man days)	$ 7,000
Administration	Tenement, strategy and reporting	$ 3,000
Total	Year 5 Plan	$25,000

Appendix

Attack Creek Project Review

by

Amit Eliyahu

January 2007