



**MOZAMBIQUE MINERALS, AUSTRALIAN EXPERTISE,
UNIVERSAL POTENTIAL**

5 September 2014

Capital Structure

At 3 September 2014:

Shares on Issue - 309,655,302

Unlisted Options – 11,650,027 (ex. at \$0.10)

Unlisted Options – 5,000,000 (ex. \$0.70)

Unlisted Options – 5,000,000 (ex. \$1.00)

Performance Rights – 15,000,000

Share Price Graph (ASX:TON)



3 September 2014

Directors & Major Shareholders

Alan Jenks – Non Executive Chairman

Brad Boyle – Managing Director

Alf Gillman – Non Executive Director

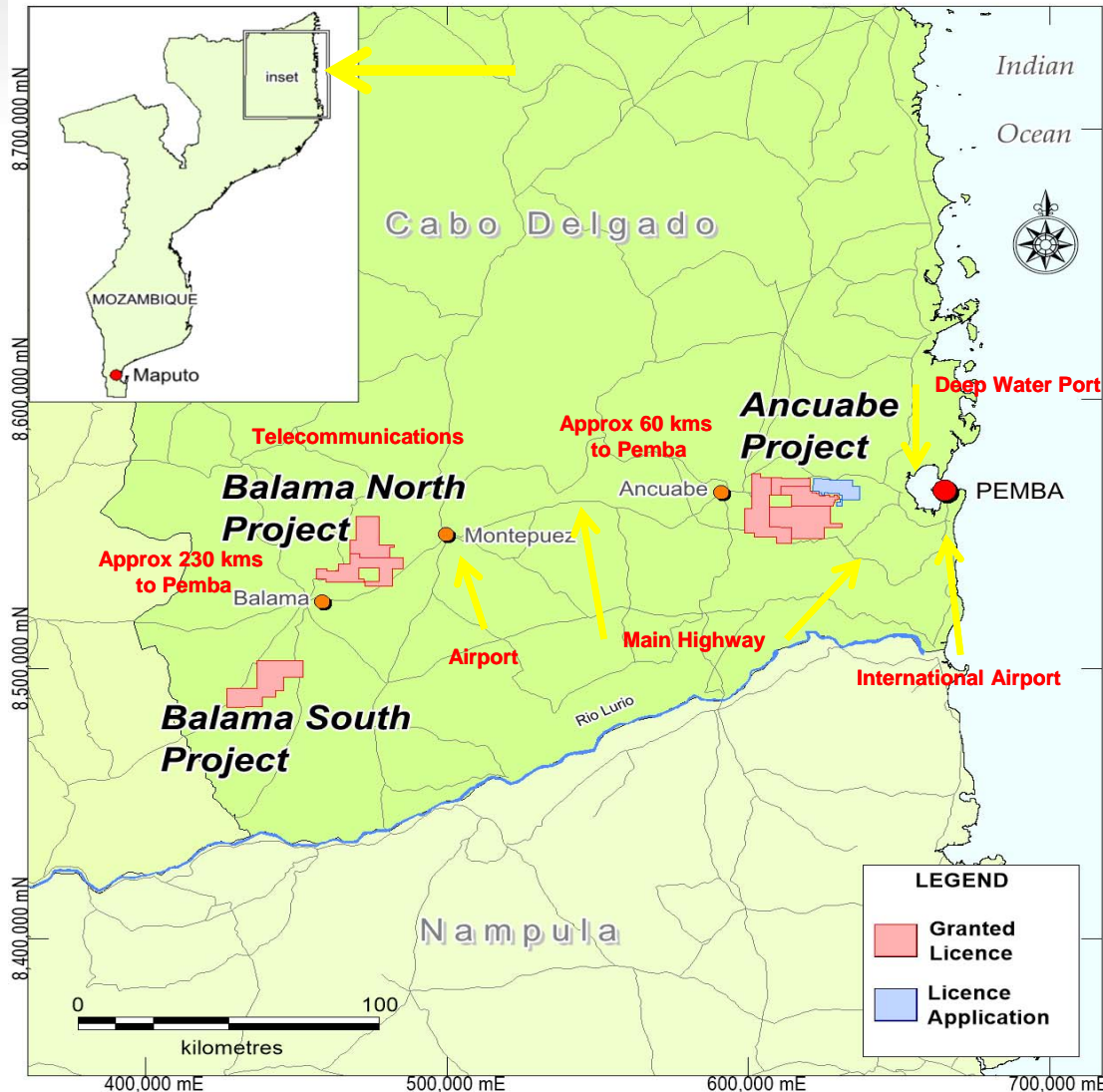
Directors Hold: 43,338,110 shares (~14%)

Top 20 shareholders hold 46%

Cash: \$5M



Diamond drill core from the Nicanda Hill prospect at Balama North project.



Overview of the Balama and Ancuabe exploration license areas

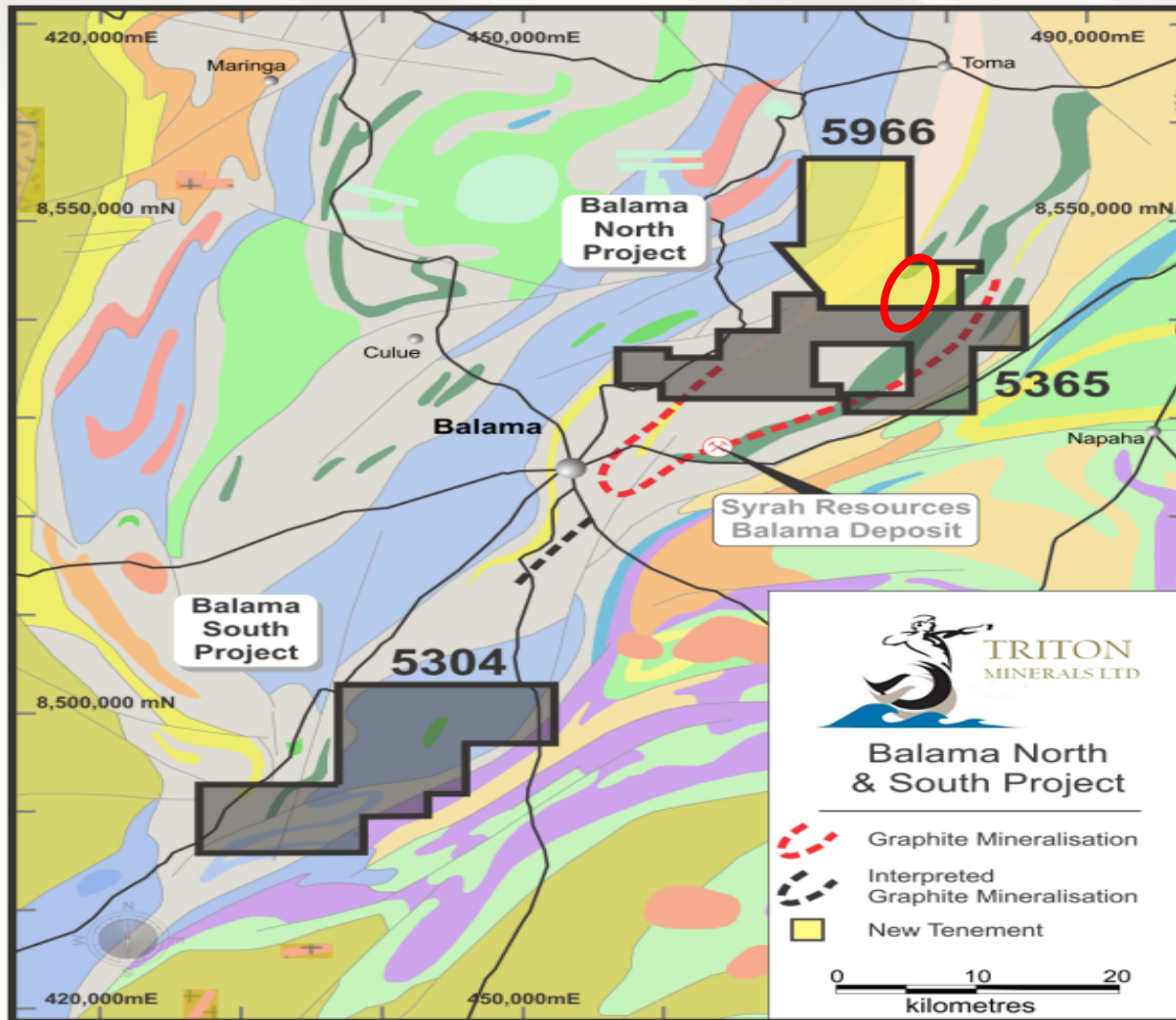
- Triton holds 80% interest in 3 Graphite Projects in Mozambique, moving to 100% as of recently signed acquisition deal with Grafex Ltd
- 6 granted exploration licenses and 2 applications, covering a total area of about 1,150 square kilometres
- Licences adjoin known Graphite mineralisation and historical High Grade Flake Graphite mine
- Large flake Graphite identified at the Balama North, Balama South and Ancuabe projects
- Easy access to sites and adjacent to all required infrastructure for future project development needs, including Pemba natural deep water port
- Strong Local Community and Federal Government support
- Rapid exploration and development program underway at Nicanda Hill prospect in the Balama North project



Nicanda Hill Prospect

BALAMA PROSPECTS



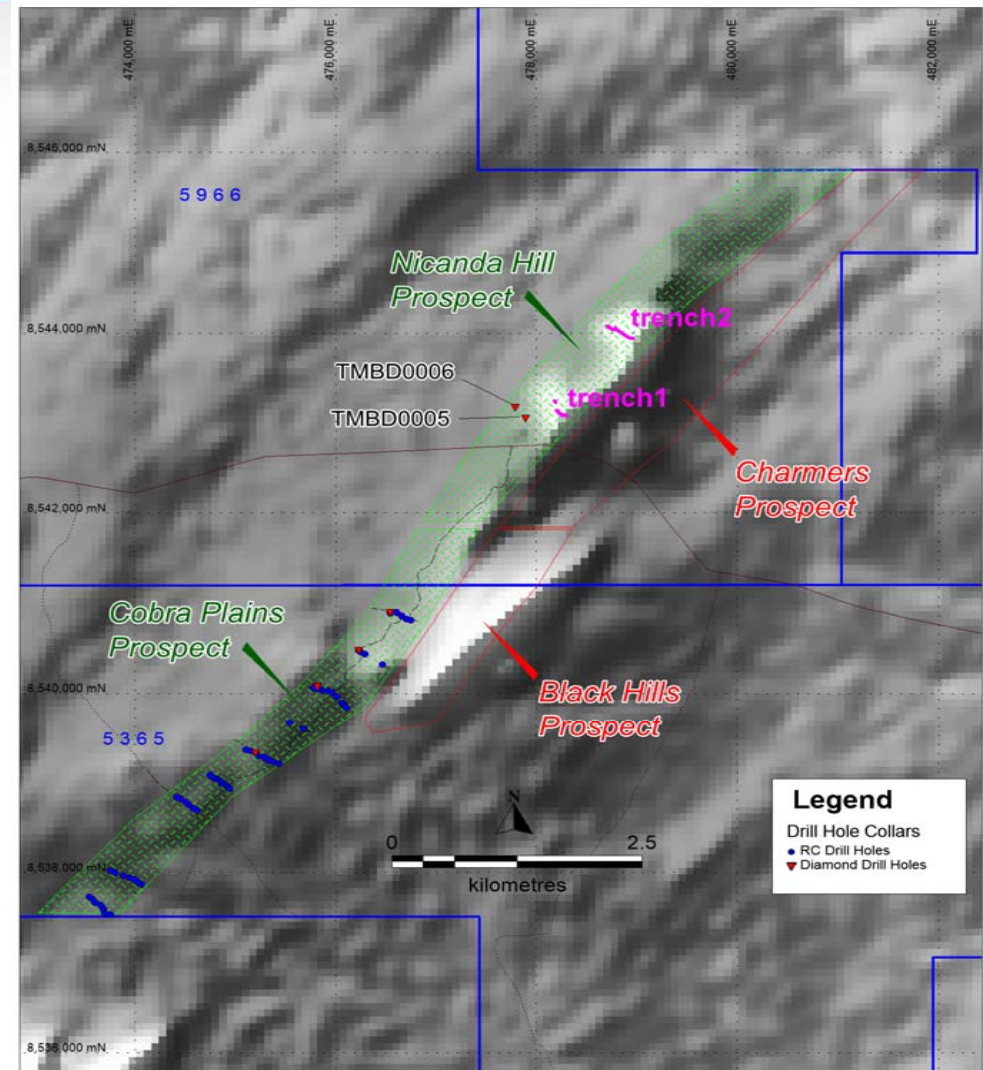


- Inferred Resource Graphite Deposit at Cobra Plains
- JORC Resource for Nicanda Hill by late 2014
- High grade large flake graphite and vanadium identified throughout Nicanda Hill
- Multiple high grade graphite zones identified
- Very large multi-element mineralisation footprint on Nicanda Hill (5.2km²)
- Prefeasibility work underway to assist rapid development at Nicanda Hill
- Large flake graphite mineralisation identified at Balama South Project
- VTEM Survey to be completed at Balama South
- Easy access to sites and close to infrastructure at Balama and Montepuez

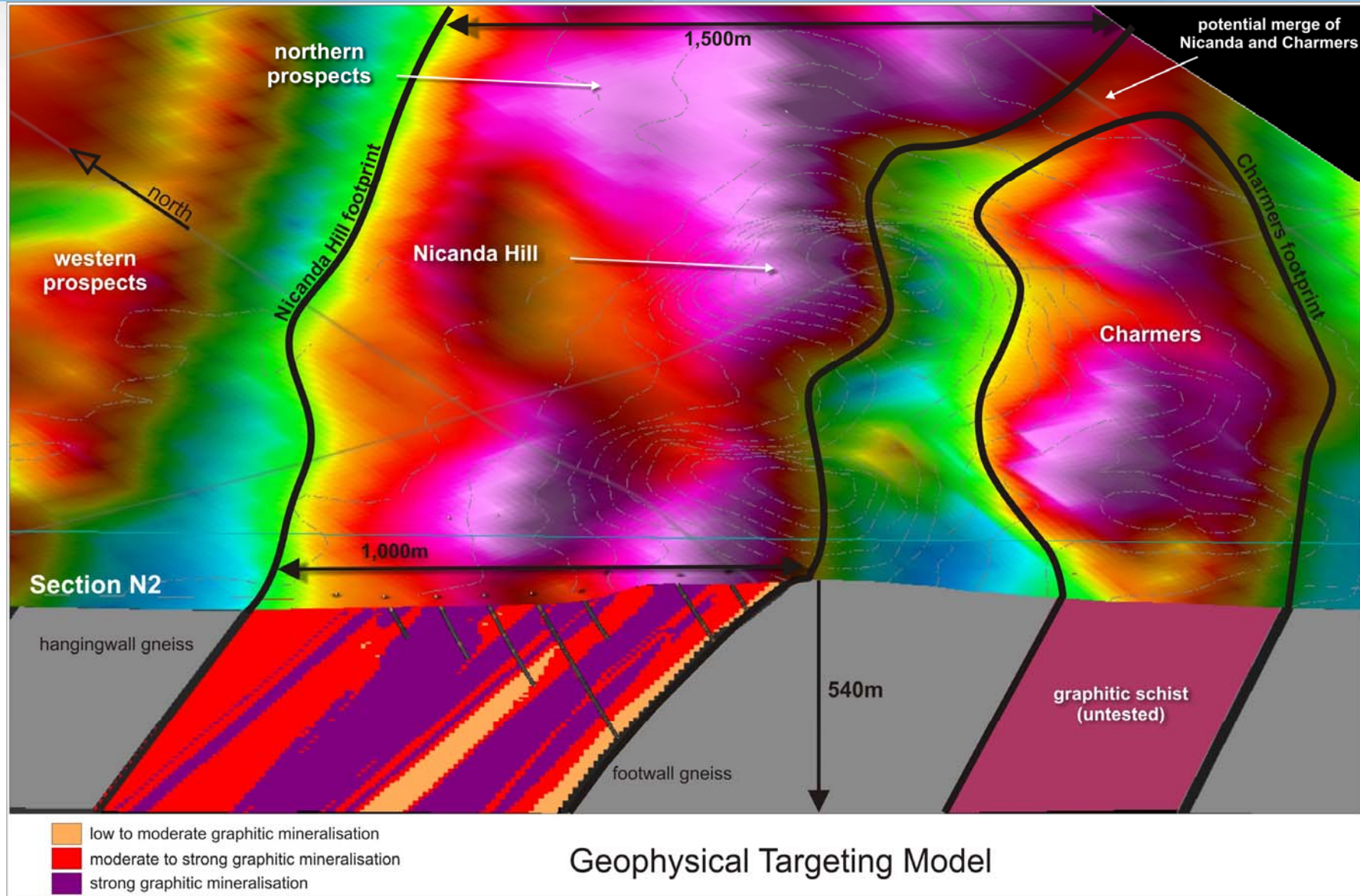
Overview of the interpreted regional structural geology and graphite mineralisation potential in the Balama License areas (location of the graphite exposure is an approximation for illustration purposes only)

Strong local landowner support

- Extensive graphite and vanadium mineralisation located in Nicanda Hill and Cobra Plains Prospects
- Nicanda Hill mineralisation foot print extended to **6.2kms**
- Drilling to date has demonstrated the continuity and consistency of graphite mineralisation over a strike length of **4.8km** between drill sections S10 and N14
- The horizontal width of the graphite mineralization at surface is expanded to **1,100m** and still remains open to the northwest
- High grade large flake graphite intersected (up **28.6% TGC**) in Diamond Drilling.
- Diamond drilling confirms mineralization from surface to over **400** vertical metres, **open at depth**
- Additional drilling results have delineated newly identified hanging wall higher grade zones
- Drilling is now focused on testing the continuity of the multitude of interpreted high grade zone
- Metallurgical and Petrographic test work continues
- Scoping Study extended to include Nicanda Hill



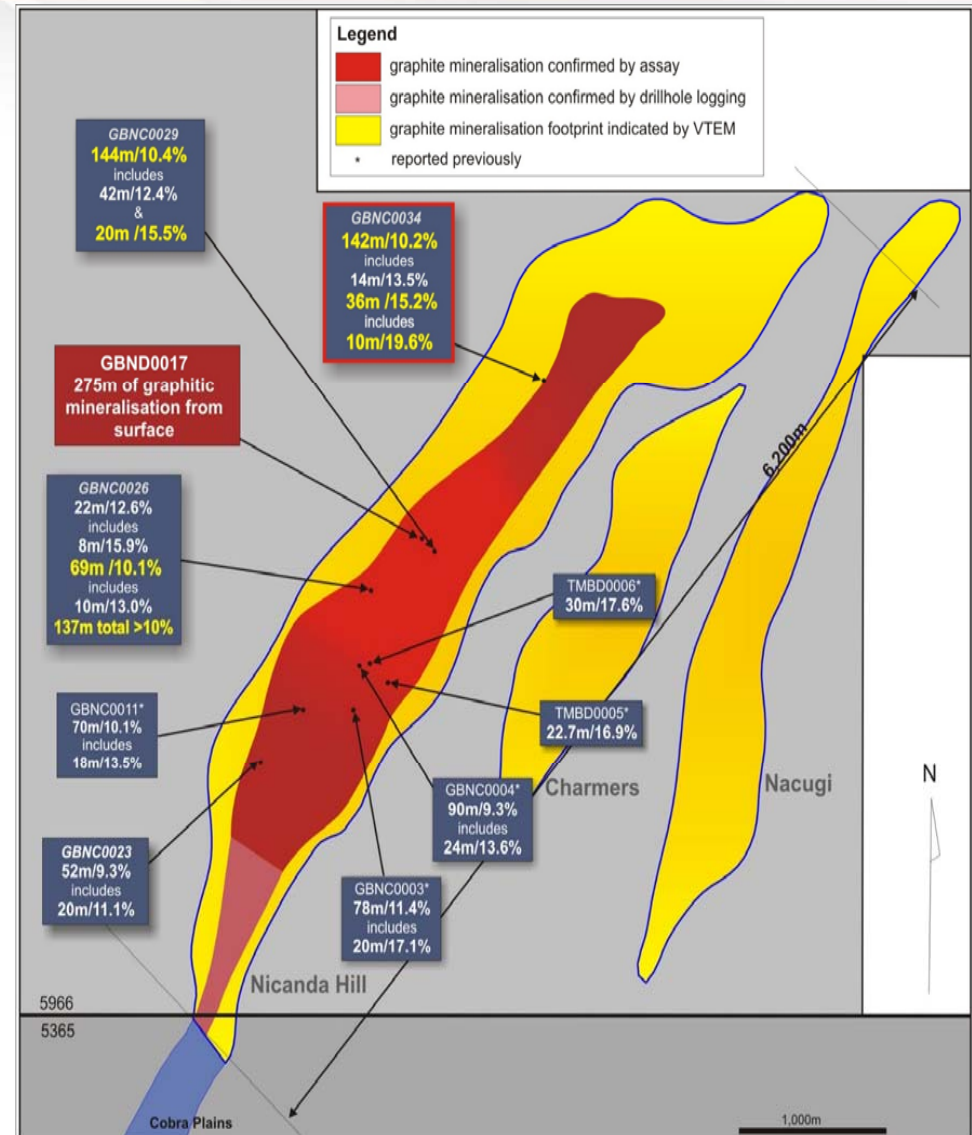
Location of holes TMBD0005 and TMBD0006 drilled on the Nicanda Hill prospect, relative to the drilling completed earlier this year on the Cobra Plains prospect. The two surface trenches are represented by the labelled pink lines. The base image is the digital elevation model from the Space Shuttle Topographic Mission data; lighter areas represented higher elevation. Map datum – WGS84 Zone 37 South.



- Substantial graphite mineralisation thickness confirmed in the Northern section of the Nicanda Hill prospect.
- The reported results reaffirm the multiple high grade graphite zones of substantial widths along the entire length of all drill holes and open at depth.
- 6.5% GrC cutoff, overall average graphite grade of **10.32% GrC**.
- High grade Vanadium confirmed at Nicanda Hill.
- Vanadium weighted average is **0.13%** (equivalent to **0.23% V₂O₅**).
- Selected grades of **0.36%V** (equivalent to **0.64% V₂O₅**).
- The drilled graphite mineralization intersections correlate strongly with the zone of high electrical conductivity defined by the VTEM survey data.
- Potential to host multiple very large scale flake graphite and vanadium deposits



Close up image of diamond drill core from Nicanda Hill prospect.



Plan showing significant drilling results at Nicanda Hill on License 5966



Above: Two Diamond drill rigs drilling at Nicanda Hill prospect.

Below: Close up image of high grade graphite mineralisation intercepted at surface in HG1 at Nicanda Hill prospect.



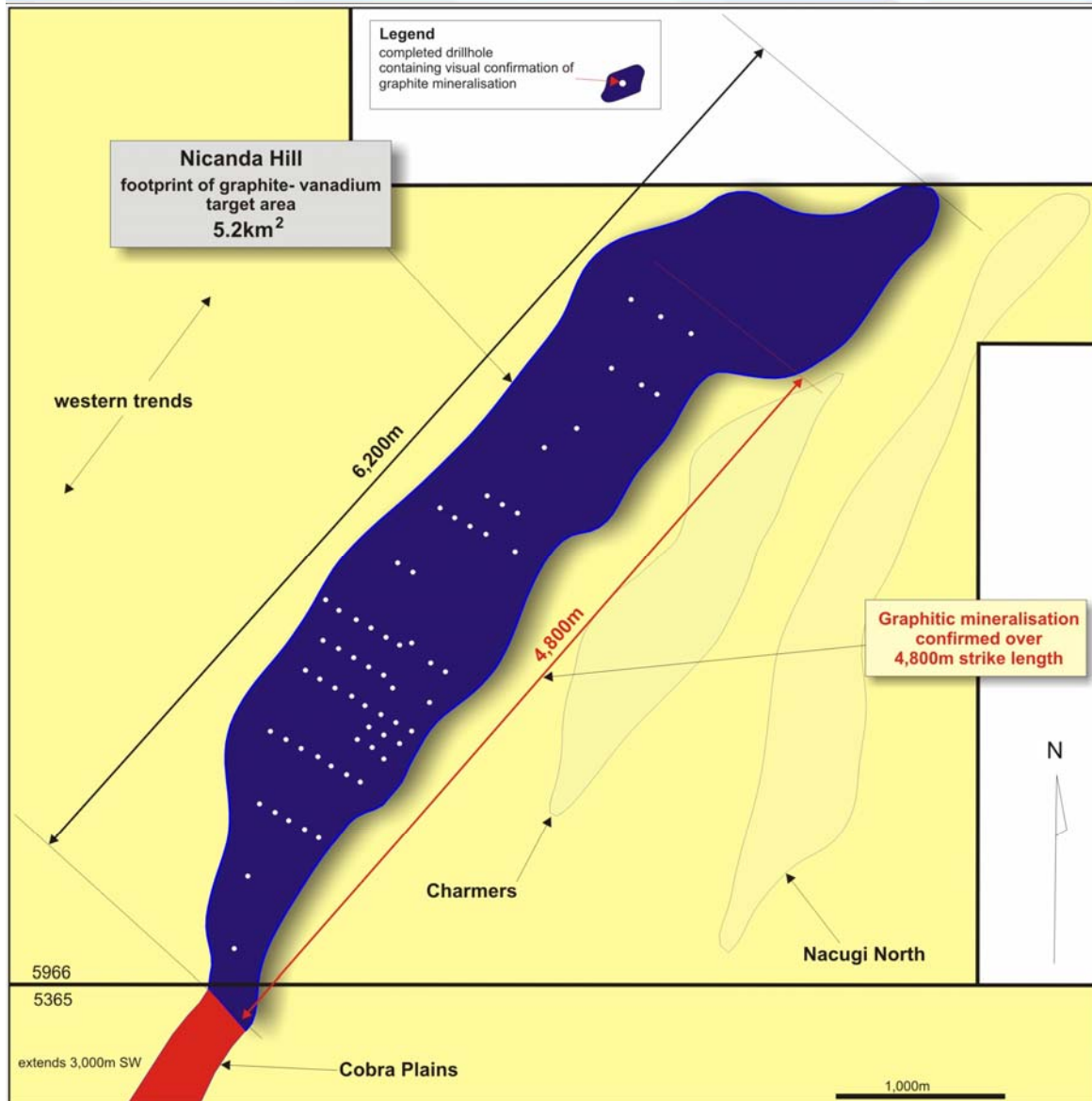
Current Exploration Activities

- 1 x RC and 2 x Diamond drill rigs drilling on site 24/7
- Drill program to test full length of mineralisation footprint
- Drill access tracks created on top of ridges at Nicanda Hill and Charmers
- Drilling underway on the ridges of Nicanda Hill
- Bulk Sampling test pit being created



Strong graphite mineralisation present at surface on access tracks at Nicanda Hill prospect.

Balama North Project (Cont.) Nicanda Hill Mineralisation Footprint



Mineralisation Footprint is 6.2kms long which is equal to the length:



1.75 x Perth Airport main runway (3,444m)



2 x Perth CPD (3kms long)



35 x MCG (174m x 148m)

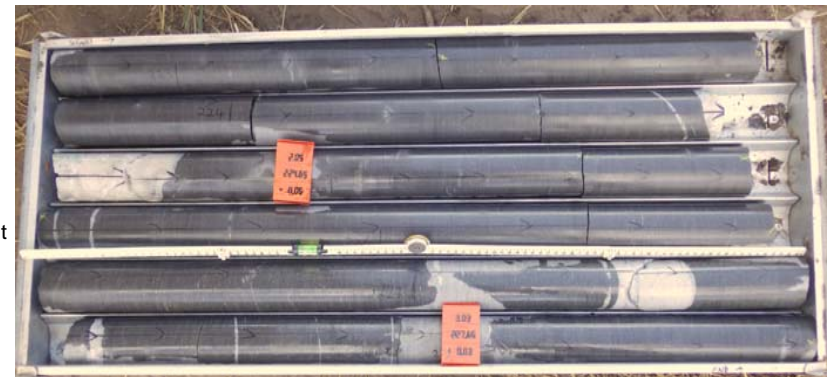
- Preliminary partial metallurgical results from the Cobra Plains deposit shows the total carbon (“TC”) recovery of 96%
- The weighted average total graphitic carbon (“TGC”) of the concentrate produced is 94.5%, (including a high of **97.1%**)
- The graphite is readily liberated by crushing, grinding, rougher and cleaner flotation with regrind
- Additional metallurgical work underway to refine the recovery process
- Reviewing options to see if the concentrate can be further upgraded using supplementary treatments



Image of the graphitic material being liberated using a flotation method at the ALS Metallurgy laboratory



Drill core from Nicanda Hill in Diamond Hole (GBND0001) taken from about 223m to 228m



Graphite liberation as seen at surface on diamond drill hole GBND0005

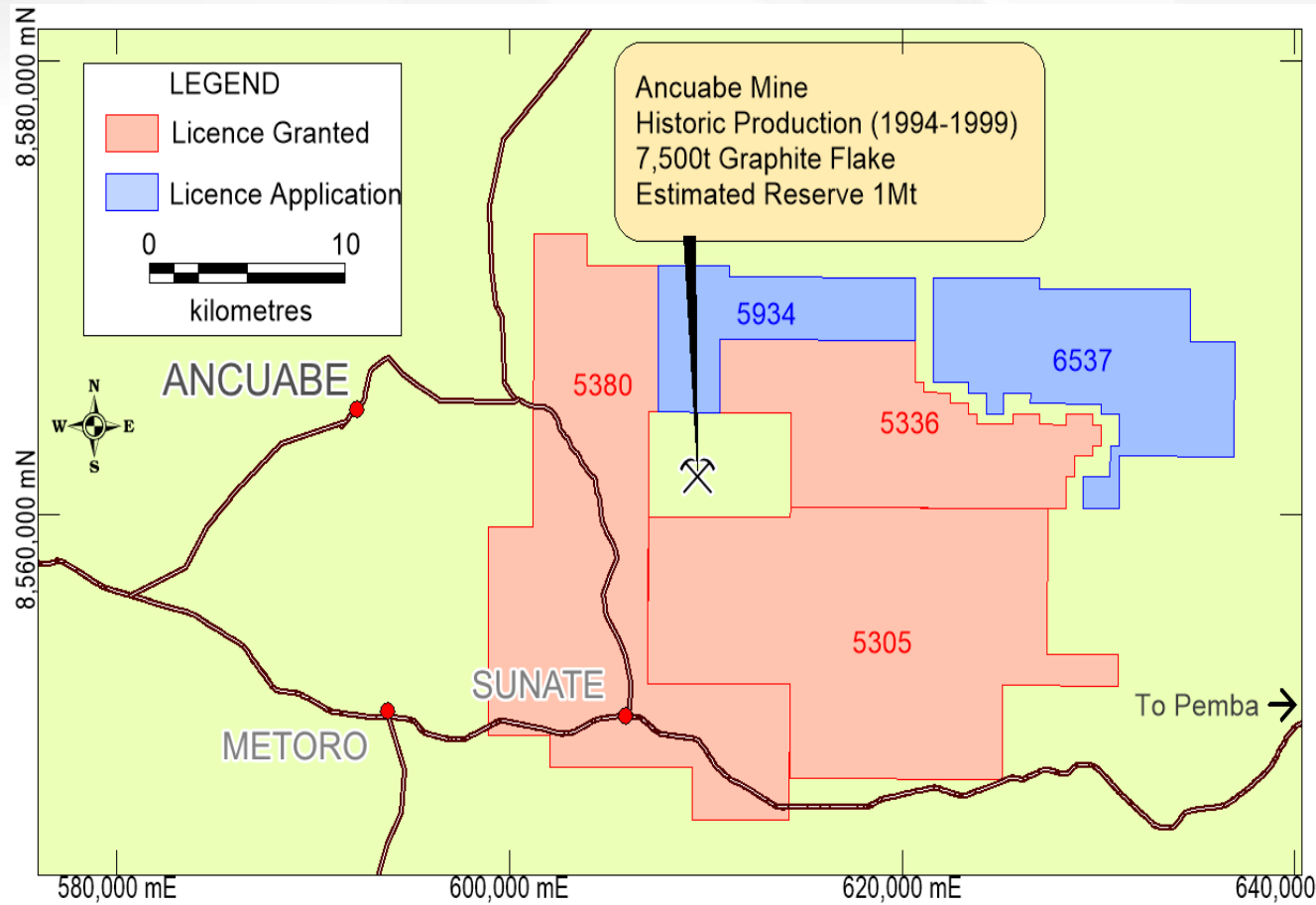
- Numerous occurrences of flake graphite and vanadium mineralisation
- Physical similarities between the graphitic outcropping at both Balama North and Balama South projects.
- Graphitic outcropping on ridges and river beds for approximately 2 kms
- Outcrops shows potential medium and large flake graphite
- Helicopter-borne geophysical survey to be completed
- Easy access to site
- Further mapping/survey to be completed
- Close to infrastructure at Balama and Montepuez
- Local landowner support



Close up image of the graphite-bearing quartzose schist found on exploration license 5304

ANCUABE PROSPECTS





Overview of the Ancuabe project exploration license areas

- High grade large flake Graphite identified across project
- Historic Production of Graphite (Ancuabe Mine held by AMG Mining)
- Licenses completing surround Ancuabe Mine
- Numerous Flake Graphite exposures located in north west sector
- Helicopter-borne geophysical survey to be completed
- Constitute high quality exploration targets to be drill tested
- Easy access to site
- Multiple target areas identified
- Mapping/Survey to be completed
- Drill ready target now defined
- Close to infrastructure at Ancuabe and Pemba
- Local landowner support

Local Villages

- Mapapulo
- Nicanda
- Napavale
- Nacugi
- Naropa

Ongoing Support Programs

- Water Bores
- Review of School facilities
- Review Medical services



sourced from www.thebutterflytree.org.uk



Employment and Training

- 4 x Mozambique Geologists
- 4 x Mozambique Field Hands/Labourers
- Approx. 80 local villagers employed over last 12 months
- Using local service providers
 - Drilling/Logistics/Transportation/Supplies
 - Housing/Vehicle hire
 - Lawyers/Accountants/Customs Agents



Triton geologists and field hands cutting diamond core at Nicanda Hill prospect

Proposed Exploration Plan	2014			2015	
	Q2	Q3	Q4	Q1	Q2
Metallurgical and Petrographic test work	Work Completed	Proposed Work	Proposed Work	Proposed Work	Proposed Work
Phase 3 RC and Diamond Drilling Nicanda Hill	Work Completed	Proposed Work	Proposed Work		
Mapping, Rock Chip Sampling, Trenching Charmers and Black Hills			Proposed Work		
Scoping Study (extended to include Nicanda Hill)	Work Completed	Proposed Work	Proposed Work	Proposed Work	Proposed Work
VTEM Survey at Balama South and Ancuabe		Proposed Work	Proposed Work		
Inferred and Indicated JORC Resource for Nicanda Hill			Proposed Work	Proposed Work	Proposed Work
Reconnaissance drilling Charmers and Black Hills			Proposed Work		
Reconnaissance mapping and rock chip sampling Balama South and Ancuabe	Work Completed	Proposed Work	Proposed Work		
Feasibility and Development work			Proposed Work	Proposed Work	Proposed Work

 Work Completed
 Proposed Work

Note: The above program is only indicative and timing subject to change depending on exploration results and funding

- Very large multi-element mineralisation footprint on Nicanda Hill (5.2km²)
- Multiple high grade large flake graphite and vanadium mineralisation zones identified throughout the Nicanda Hill
- Nicanda Hill will be one of largest high-grade flake **graphite and vanadium deposit** in the world
- Rapid exploration and development program at Nicanda Hill, large JORC resource by end 2014.
- **103Mt** Inferred Mineral Resource at Cobra Plains Graphite Deposit (**4th Largest** and does not include recent Nicanda Hill drilling)
- Large flake graphite also identified at Balama South and Ancuabe Projects
- Predicted strong future global demand for flake graphite and vanadium



Brad Boyle

CEO & Managing Director

Triton Minerals Ltd
(ACN: 126 042 215)
278 Barker Road, Subiaco WA 6008
Tel: +61 8 6489 2555
Fax: +61 8 9388 1252
bboyle@tritonmineralsld.com.au

Media & Investor Enquiries:

Fortbridge +612 9003 0477
Bill Kemmery
Tel: +61 400 122 449
Email: bill.kemmery@fortbridge.com

Diamond drill core from Nicanda Hill prospect on License 5966 showing graphite and vanadium.



Competent Person Statement

The information in this announcement that relates to Exploration Results on Balama North project is extracted from the reports entitled ASX Release "High Grade Large Flake Graphite Identified at Nicanda Hill" dated 4 November 2013, ASX Release "High Grade Graphite Discovery at Nicanda Hill" created 22 January 2014, ASX Release "103Mt Graphite Resource at Cobra Plains" created 26 February 2014, ASX Release "Balama North Project Update" created 5 March 2014, ASX Release "New Potential Graphite Zones Identified At Balama North Project" created 14 March 2014, ASX Release "Metallurgical Results For Balama North" created 15 April 2014, ASX Release "Enormous Graphite Intercepts At Nicanda Hill" created 4 June 2014, ASX Release "Significant High Grade Graphite Intersected at Nicanda Hill, dated 23 June 2014, ASX Release "Multiple High-Grade Graphite Zones Confirmed At Nicanda Hill", created 7 July 2014, ASX Release "Triton Completes \$8.5 Million Placement To Accelerate Balama North Project" created 17 July 2014, ASX release "Multiple Graphite Zones Further Defined And Expanded At Nicanda Hill" created 28 July 2014, ASX release "Graphite Outcropping Located At Balama South" created 31 July 2014, ASX release "Outstanding Graphite And Vanadium Results From Nicanda Hill" created 4 August 2014, ASX release "Nicanda Hill Mineralised Footprint Defined Over 6,200m Strike Length" created 11 August 2014, ASX Release "High Grade Graphite Zone Averaging 19.6%GrC Intersected North of Nicanda Hill", created 2 September 2014 and are available to view on www.tritonmineralsld.com.au. The reports were issued in accordance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this announcement that relates to Exploration Results on Ancuabe project is extracted from the reports entitled ASX Release "High Grade Large Flake Graphite Identified at Ancuabe Project" dated 31 October 2013 and is available to view on www.tritonmineralsld.com.au. The reports were issued in accordance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.



Alan Jenks - Non Executive Chairman

Mr. Alan Jenks has over 20 years experience in early stage investments in the junior resource sector. Mr. Jenks's has predominantly focused on companies which have key projects located in the Australian and African continents.

Mr. Jenks obtained a vast knowledge of South African PGM exploration companies in and around the Bushveld complex. Subsequent to this Mr. Jenks in 2001 had the oversight to successfully build a platinum group metals recycling company, Catalytic Converters Recycling Services Ltd ("CCRS"). Mr. Jenks is the Managing Director of CCRS, which is a company that specializes in the extraction and recovery of precious metals from spent catalytic converters.

Mr. Jenks has become a key cornerstone investor in Triton and has actively supported the growth and development of the Company, including with its move into the graphite sector with the acquisition of the key graphite projects in Mozambique. Mr. Jenks continues that support of Triton and has established a large group of UK based investors for the Company.

Brad Boyle – Managing Director

Mr Boyle is an experienced Managing Director of listed and unlisted resource and energy companies. Mr Boyle is the founder of Monolithic Corporate Group which is a Legal and Corporate Compliance service company, based in Subiaco. Mr Boyle also has extensive experience as legal counsel and company secretary. Previously, Mr Boyle acquired a diverse range of corporate and private practice experience acting for mining, commercial and government clients across a broad range of sectors. He also has extensive litigation experience including representing clients in mediations, Federal, Supreme, District and Magistrates Courts.

Mr Boyle has previously been the Managing Director of Sprint Energy (ASX:SPS) two Not-For-Profit organizations. Mr Boyle is a Chartered Company Secretary, having obtained a Graduate Diploma in Corporate Governance and a Graduate Diploma in Business Administration and is a member of the Australian Institute of Company Directors, WA Law Society and the Australian Corporate Lawyers Association.

Alf Gillman – Non-Executive Director

Mr Gillman has over 30 years of experience as a geologist in gold, base metals and uranium. He has extensive experience in exploration and project development in various parts of the world including Australia, Papua New Guinea, Africa, the United States, Russia and Central Asia.

For most of Mr Gillman's career, he has held senior management positions, including Group Exploration Manager of Harmony Gold and he is a Fellow and Chartered Professional of the Australian Institute of Mining and Metallurgy. Mr Gillman currently serves as Technical Director for Peninsula Energy Ltd (ASX: PEN), Managing Director of the geological consulting firm Odessa Resources Pty Ltd and is Managing Director of the private exploration company, Dakar Gold Pty Ltd.

Features:

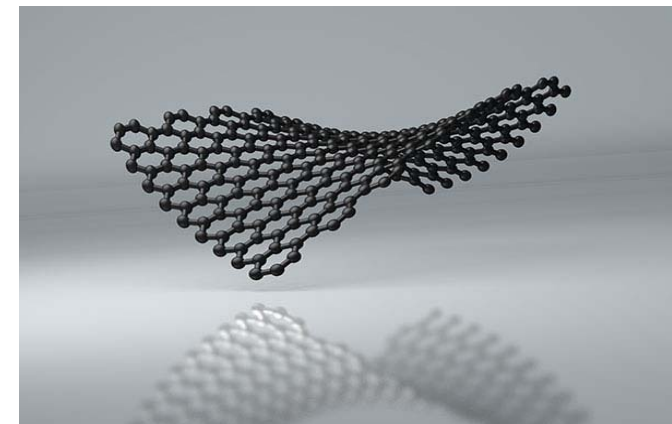
- One of the most common and stable types of carbon
- Excellent electrical conductor
- Extremely strong cohesive bonds, heat-resistant (to 3000° C)
- Resistant to solvents, dilute acids, or fused alkalis
- Growing industrial demand from emerging economies
- Chinese supply concerns (**reduced production**)
- **EU** and **USA** have named graphite a supply critical mineral
- **GRAPHENE**: Demand and uses continue to develop
(**Graphene Flagship: 17 Countries, 75 research groups**)

Forms of Graphite

- Natural Graphite: Flake, Vein & Amorphous
- Synthetic Graphite



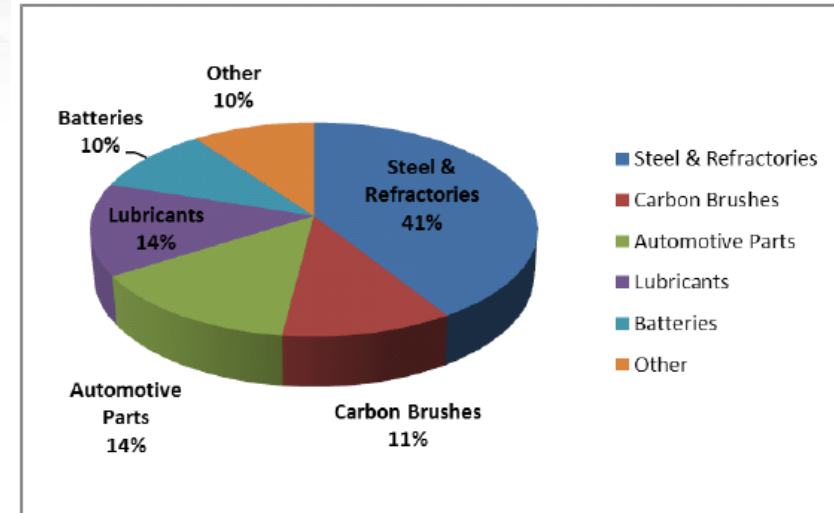
Sample of Graphite
(Image Sourced from Wikipedia <http://en.wikipedia.org/wiki/Graphite>)



Sample of Graphene molecules
(Image Sourced from Graphene Flagship: <http://graphene-flagship.eu/research/>)

Material Use:

- Dry lubricant (Industrial applications)
- Medical implants
- Reentry shields for missile nosecones
- Solid rocket engines
- High temperature reactors
- Brake shoes and electric motor brushes
- Fire seals, fitted around the perimeter of a fire door
- Batteries: Li ion batteries, fuel cells, nuclear power
- Electronic devices (smart phones, TV)



Source: Mackie Research Capital 2011 Common uses for Graphite



Mobile Electronics



Electric Vehicles



Refractory



Foundry Industry



Graphite Electrode

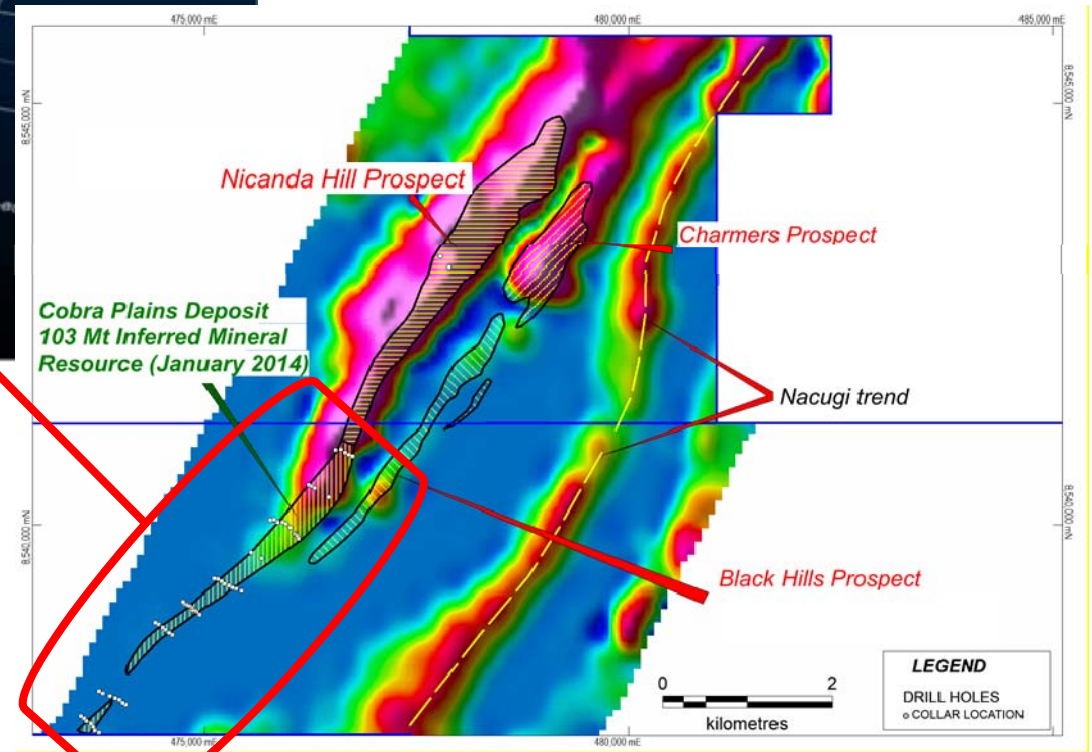
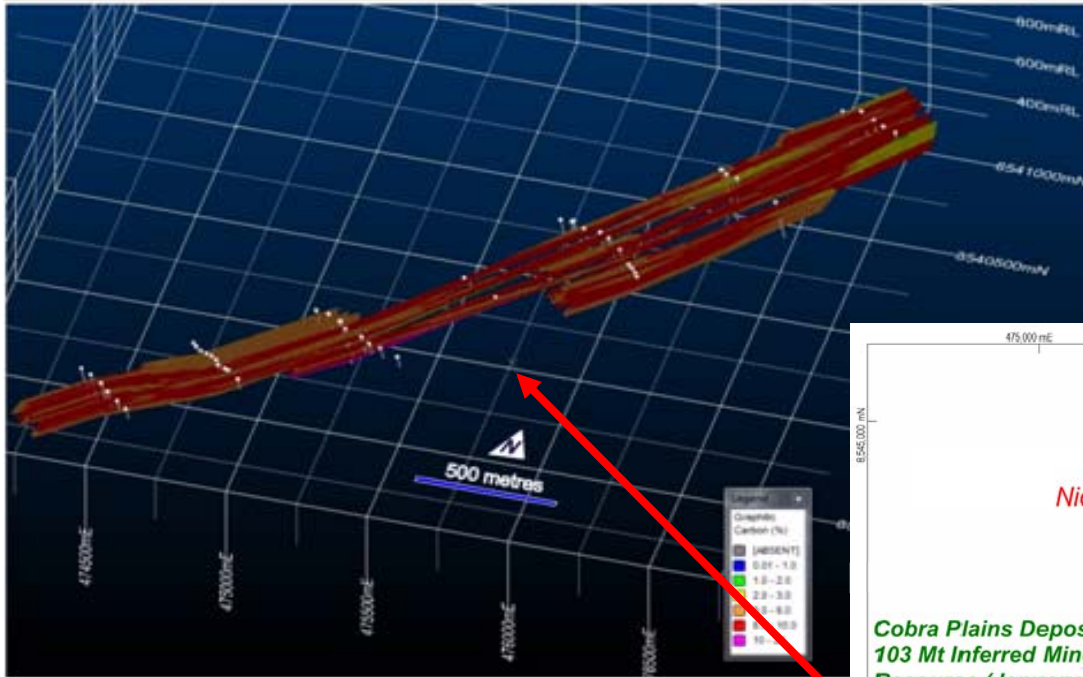


Sealing Material



Pencil Core

103Mt Cobra Plains Deposit



Oblique view looking north-northwest over the block model of the Cobra Plains deposit. The Inferred Mineral Resource Estimate comprises 103 Million Tonnes (Mt) at an average grade of 5.52% graphitic carbon, containing 5.7 Mt of graphitic carbon. The model is coloured by estimated graphite carbon grade (%). Image provided by Optiro Pty Ltd. Datum: WGS84 Zone 37S

Competent Person's Statement

The information in this report that relates to Mineral Resource estimate at the Cobra Plains deposit on Balama North project is based on, and fairly represents, information and supporting documentation prepared by Mr Mark Drabble, who is a Member of the Australasian Institute of Mining & Metallurgy. Mr Drabble is not a full-time employee of the Company. Mr Drabble is employed as a Consultant from Optiro Pty. Ltd. Mr Drabble has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Mineral Resources and Ore Reserves (the JORC Code)'. Mr Drabble consents to the inclusion in this report the exploration results and the supporting information in the form and context as it appears.