



BLACK ROCK
MINING LIMITED

A Tanzanian Graphite Developer

INVESTOR PRESENTATION JULY 2016



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COMPETENT PERSON

The information in this report that relates to Exploration Results and Mineral Resource Statements is based on information compiled by Steven Tambanis, who is a member of the AusIMM. He is an employee of Black Rock Mining Limited. Steven Tambanis 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 2004 and 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Steven Tambanis consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

Corporate Overview



Capital Structure

Share Price	A\$0.16
Shares on Issue	285m
Quoted Options on Issue	75m
Market Capitalisation	A\$46M
Cash in Bank	A\$2.4M
Directors Holding	29%

6 Month Price Performance



Board and Management

Stephen Copulos (Chairman)

- +30 years experience across a wide range of industries including mining, manufacturing, property, fast food and hospitality.
- Chairman of Crusader Resources Limited (ASX:CAS), Consolidated Zinc Limited (ASX:CZL) and Non-Executive Director of Restaurant Brands, NZ

Steve Tambanis (Managing Director)

- Geologist with extensive commercial and operational experience in the resources industry including business development at WMC Resources.

Gabriel Chiappini (Director & Company Secretary)

- Chartered Accountant and member of Australian Institute of Company Directors with extensive experience as Director and Company Secretary to ASX listed companies.
- Director of Fastbrick Robotics Ltd (ASX:FBR), Sunbird Energy Ltd (ASX:SNY), Scotgold Resources Limited (ASX:SGZ) and Global Geoscience Ltd (ASX:GSC)

Cygnit Capital (Corporate Advisor)

BKT in summary



BKT is conducting a Pre Feasibility Study of its wholly owned Mahenge Graphite Project

- **Graphite resource discovery of 131Mt @7.9% TGC* including 37.6Mt@ 10.2% TGC**
- **Exceptional metallurgical characteristics achieving >99% TGC flake purity with scope for further improvement. Premium pricing for premium flake**
- **Potential to manufacture spherical graphite for Lithium Ion Batteries (LIBs) without chemical purification. Additional price premium on success**
- **Pre Feasibility Study underway utilising a World class technical team. Simple logistics**

Progressive de-risking of key project components: Resource, metallurgy, logistics, marketing

Currently being infill drilled to deliver Measured and Indicated resources. Low strip ratio and simple mining

Ongoing metallurgical test programme has potential for further purity increases beyond 99.1% TGC

Comprehensive spherical graphite test programme underway in parallel to metallurgical test programme

Planned for completion September to follow up on positive Scoping Study results**

Exceptional metallurgical results



>99% TGC purities achieved from simple flotation.

Across ALL size fractions >75 microns

- **Potential to manufacture premium spherical graphite without a costly and environmentally sensitive acid purification step.**
- **Results achieved for Ulanzi oxide, Ulanzi primary and Epanko North primary mineralisation.**
- **Anzaplan (Germany) spherical and expandable test results due mid August.**
- **Additional spherical testing scheduled to commence in Japan, late July and USA in August**

Screen Size	Mass %	TGC %	Cumulative mass %	Weighted average TGC%
+500 μm	1.1	98.3	1.1	98.3
+300 μm	17.9	99.2	19.0	99.1
+180 μm	35.2	99.2	54.3	99.2
+150 μm	9.5	98.9	63.8	99.1
+106 μm	12.9	99.0	76.6	99.1
+75 μm	9.3	98.9	86.0	99.1
+25 μm	8.8	97.5	94.8	98.9
-25 μm	5.2	81.5	100.0	98.0

Table 1. Size and TGC assay results for Ulanzi oxide Bulk sample

Battery flake graphite value chain



Coating

Proprietary process. Typically Japan, Korea and China

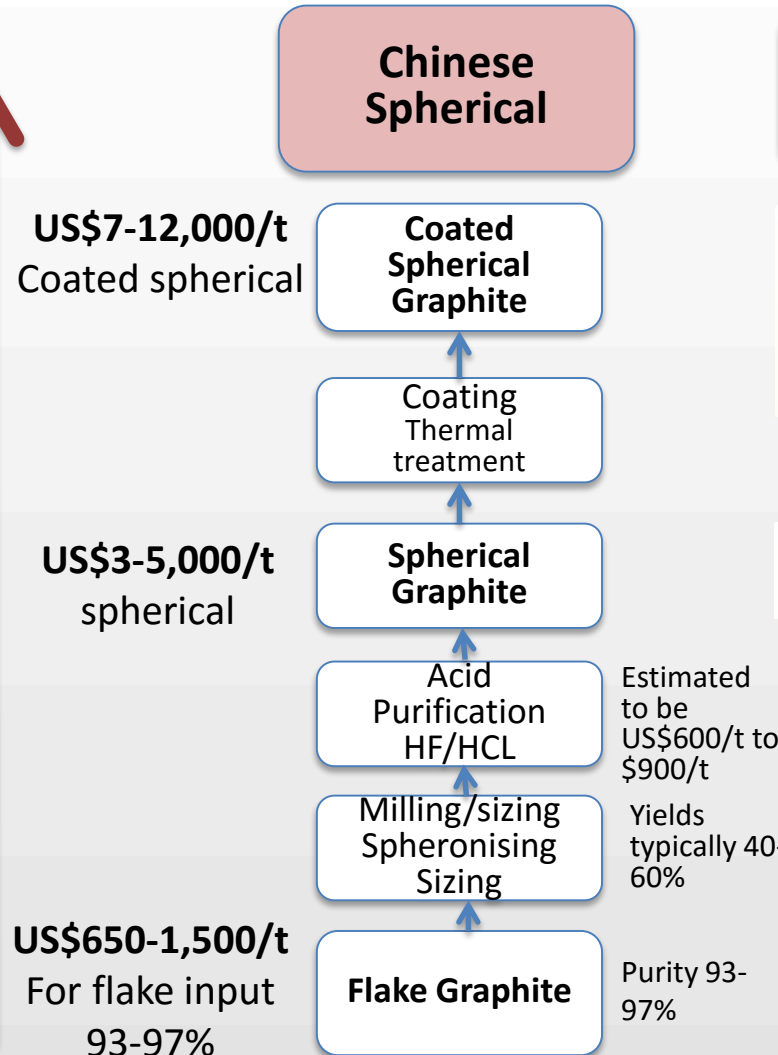
Spheronising

98% Chinese dominance of this sector. Can buy this technology off-the-shelf

Flake concentrate

80% Chinese dominance of this sector @90-97% TGC. We have higher quality graphite

Increasing value



BKT flake and Spherical potential

Potential to make spherical graphite with a lower overall environmental footprint than the rest of World

Potential to manufacture outside of China

Seeking to avoid this toxic process

higher yields expected

>99% purity. Premium pricing

BKT has potential to achieve price premiums for high purity flake concentrates

Technical and development team



The Company has engaged a seasoned multi-discipline team to evaluate taking the Mahenge Project into production

- The exploration team discovered and drilled out the Mahenge resource in <12 months
- BatteryLimits in Perth delivered the Mahenge Scoping Study in March this year and are managing the Pre Feasibility Study for delivery September
- Metallurgical test work programme has delivered exceptional improvements to graphite concentrate purities. >99% TGC for all mineralisation types. Dorfner Anzaplan is conducting a detailed independent evaluation of Mahenge graphite. Spherical and expandable graphite test programme due August
- The Company has engaged Engineering and Metallurgical group Metifex as Owner's Representative to manage the current PFS and planned DFS programme
- Best-in-class technical groups are assisting with spherical graphite programme

What's in a Lithium Ion Battery?

Lithium Ion Batteries (LIBs) have varying chemistry (P, Ni, Mn, Co) but all contain lithium and graphite

- ...or graphite and lithium. Typical LIBs contain 10 times more graphite than lithium
- A LIB contains approx. 1kg of spherical graphite per KWh of power capacity
- If the spheronising process has a 50% yield then 2kg of flake graphite is required to make 1kg of spherical
- A Tesla S90D contains 90kg of spherical and a hybrid car with a 10KWh battery has 10kg of spherical graphite
- The LIB market is growing strongly. 20-30% pa for automobile and power applications



Graphite Marketing



Targeting the premium battery grade and expandable graphite markets in Europe, Asia and USA

- >99% purity and potential for chemical free spherical graphite is attracting interest from end users. Marketing trips well received
- Processing bulk samples to manufacture tonne sized samples of high purity flake graphite for detailed spherical graphite test work and to provide evaluation samples to end users. Flake graphite also being tested for traditional applications
- Utilising independent processing experts to provide detailed information and performance characteristics. Manufacturing test battery cells
- Targeting first offtake agreements by end of 2016

Mahenge Graphite Project details



What is different about our graphite?

- Mineralisation quality – purer precursor flake. Extensive regional metamorphism has generated high purity coarse graphite flakes with relatively few fines. These high purity flakes are the key to being able to process high purity concentrates
- Excellent purities up to 99.1% TGC from simple flotation alone across size fraction and across all mineralisation types. This is a premium graphite product. Higher proportion of coarse and jumbo flake compared to Mozambique and vanadium free
- Largest and highest grade JORC resource in Tanzania. **131Mt@ 7.9% TGC*** with high grade portion of **37.6Mt @10.2%**. Highest grades compared to Tanzania Peer group provide leverage for lower costs of production
- High purity of Mahenge graphite tested to date indicate that it can be applied to the premium battery market. Potential cost, performance and environmental advantages if acid purification step can be eliminated. Spherical graphite testing currently underway in Germany and Asia

- Large Resource

- Straightforward Metallurgy (large flake, >99% purity)

- High Grade

- Simple mining with low strip ratio

Objectives



We have a very pragmatic and commercial focus with a primary aim of generating significant returns to shareholders. Black Rock Mining will look to develop a mine over the next 12-24 months as we progressively demonstrate a clear pathway for a sustainable long life operation.

Our objectives are:

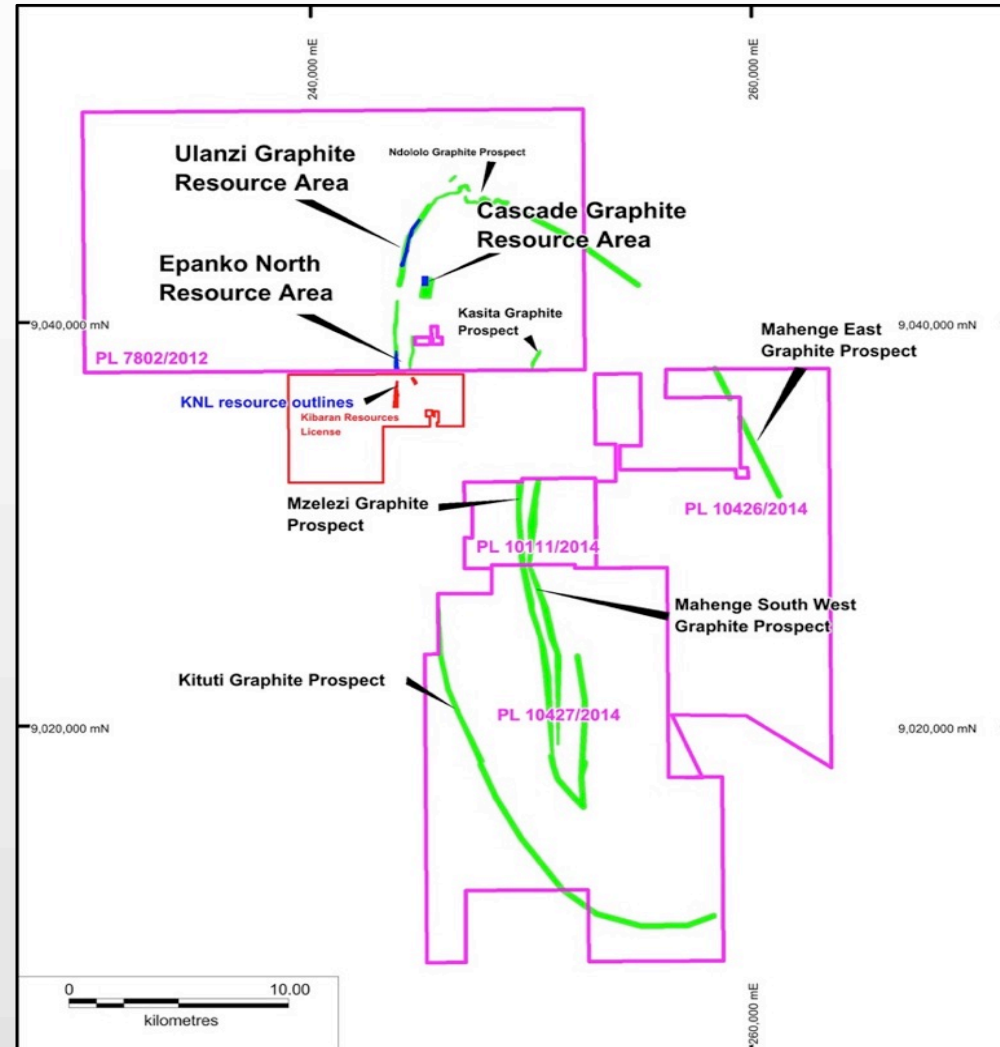
- Lowest cash costs of production in Tanzania and to make products technically superior to peers in the Industry
- To understand what product we can consistently produce over the life of mine. Indications to date are highly encouraging with >99% TGC high purity flake concentrate and coarse sizing combining to make a premium graphite flake product. Downstream processing options being assessed
- To match our graphite attributes to customer requirements, match offtake to planned production, evaluate selling a range of graphite products into different applications, develop downstream value-added options;
- To work in harmony with the local community for a long term, sustainable partnership

Mahenge Project Area



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- 530km² of tenure
- The Epanko north, Ulanzi and Cascades graphite zones contain Tanzania's largest and highest grade graphite resource. Additional drilling will yield more graphite mineralisation
- 60km from Ifakara – 128kva mains power from the nearby Kidatu Hydroelectric plant and a rail head to Dar es Salaam Port (Tazara Line)
- Green zones represent mapped graphite bearing lode structures within the Mahenge north tenement.
- Significant additional resource potential between Ulanzi and Epanko north, plus 22km of untested graphite lodes at Kituti



Community



The Company is proud to work closely with the local community. In addition to employment we have contributed to refurbishment of classrooms at Mawenge Secondary College and donated the first computer and internet access for the use of students

Photographs of the Mawenge Secondary College Chemistry and Geography building before and after refurbishment



Development Pathway



Exploration

- ✓ Tenure
- ✓ Community engagement
- ✓ Commence exploration
- ✓ Maiden drill programme
- ✓ Infill drill Epanko North
- ✓ Drill Ulanzi and Cascade
- ✓ **Maiden JORC resource**

Development

- ✓ **Scoping Study**
- ⊙ Metallurgical test work and resource update
- ⊙ Pre-feasibility study
- ⊙ Environmental studies
- ⊙ Offtake marketing
- ⊙ Plant design & logistics
- ⊙ Government approvals
- Full feasibility Study

Construction & Production

- Project Plan
- Financing
- Construction
- Production

Achieved

2016

2017/18

✓ = Completed ⊙ = Underway ➤ = Planned

Description	Due Date
Drill stage II metallurgical test holes and take bulk samples	July 16
Spherical, expandable graphite test programme (I)	Aug 16
Complete infill drilling to determine Measured and Indicated Resources. Announce updated resource	Aug-Sep 16
Complete Pre-Feasibility Study	Sept 16
Bulk spherical and expandable graphite test programme (II)	Oct 16
Metallurgical test programme	Ongoing 16
Offtake marketing programme	Dec 16
Mining Licence, environmental, social, logistics	Dec 16
DFS	Mar17
Financing	April17

Summary: The Value Proposition



- ✓ The Largest high grade JORC resource in Tanzania
- ✓ Superior metallurgy. Testing to date demonstrates >99% flake concentrate can be made from a basic flotation process – for all ore types and across saleable size fractions. Premium pricing achievable
- ✓ Comprehensive testing underway to determine the potential to make acid purification free spherical graphite
- ✓ Positive Scoping Study results. Pre Feasibility Study underway. Straightforward Logistics. Graphite marketing underway
- ✓ An opportunity to establish a low cost, long life sustainable operation from flake graphite production to value added spherical graphite
- ✓ A motivated team in place - delivering results

Black Rock Mining is progressively de-risking the Mahenge Project

Thank You



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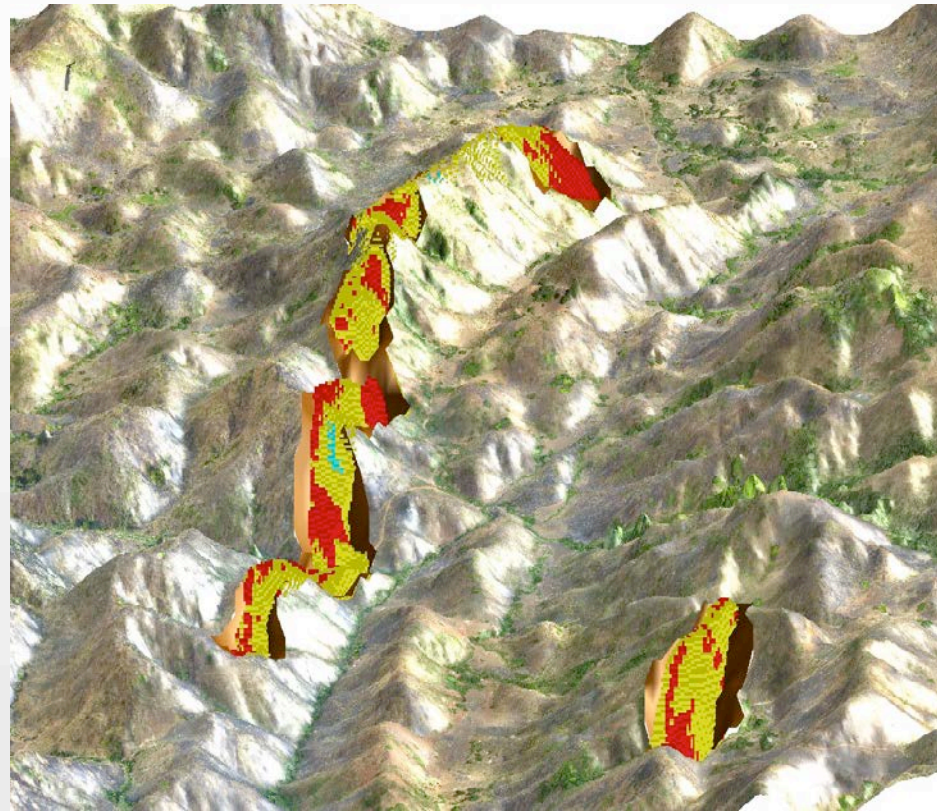
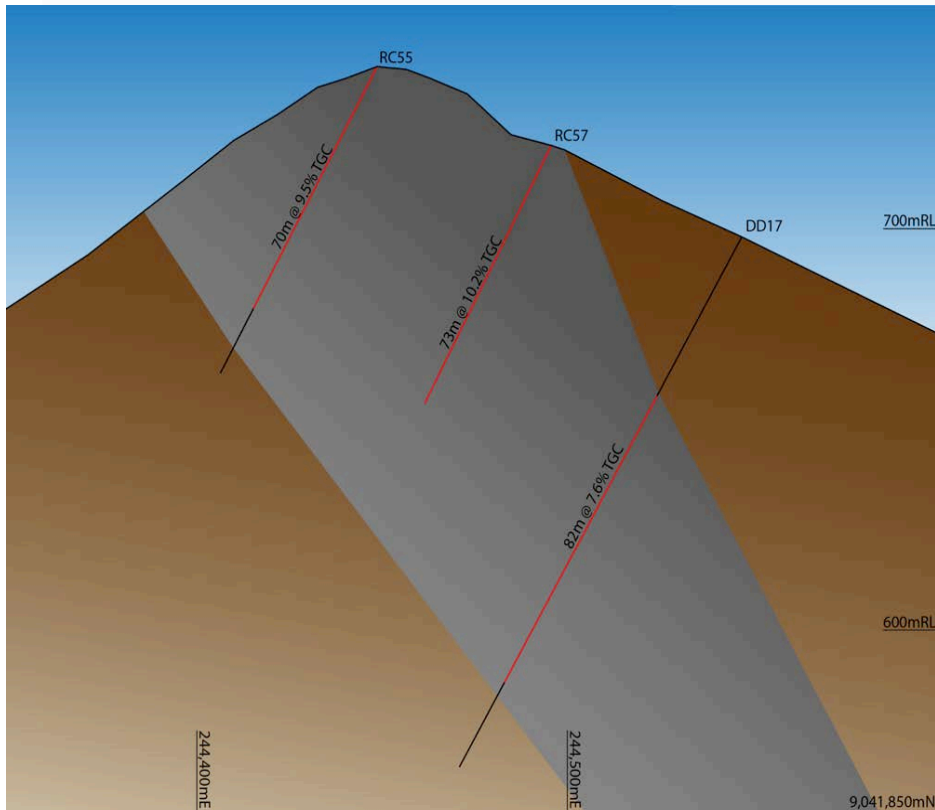
Appendix slide

ASX Peer Comparison – total resource size

Company	Market Cap (\$M)	Resource Size (Mt)	Grade (TGC%)	Cont. Graphite (Mt)	Type	Resource Category (JORC)	Project Location	Enterprise Value A\$m	EV/Tonne Graphite A\$/t	
Syrax Resources (SYR)	\$1,545	1,150	10.2%	117	Flake	Measured, Ind, Inf	Mozambique	1245	\$10.64	
Black Rock Mining (BKT)	\$48.0	131.1	7.9%	10.4	Flake	Indicated, Inferred	Tanzania	45	\$4.34	
Volt Resources (VRC)	\$110	214.4	5.1%	10.9	Flake	Indicated, Inferred	Tanzania	104.4	\$9.55	Tanzania
Magnis Resources (MNS)	\$403	174	5.4%	9.40	Flake	Measured, Ind, Inf	Tanzania	398.42	\$42.40	Weighted
KNL global resource (KNL)	\$52	89.1	7.4%	6.6	Flake	Measured, Ind, Inf	Tanzania	49.7	\$7.54	Average
IMX Graphex (GPX)	\$31.0	9.2	10.7%	0.98	Flake	Indicated, Inferred	Tanzania	30.3	\$30.92	\$20.15
Talga Resources (TLG)	\$54.0	8	24.4%	1.85	amorph	Indicated, Inferred	Sweden	49	\$26.49	
Lamboos (HXG) Hexagon	\$35.0	17.2	4.6%	0.8	Flake	Indicated, Inferred	Australia (WA)	34.5	\$43.13	
Archer Exploration (AXE)	\$8.00	5	7.6%	0.4	Flake	Measured, Ind, Inf	Australia (SA)	7	\$17.50	
Valence Industries (VXL) (suspended)	\$22	3	11.7%	0.35	Flake	Indicated, Inferred	Australia (SA)	21.4	\$61.14	Aust. Av.
Lincoln Minerals (LML)	\$21.00	2	15.1%	0.33	Flake	Indicated, Inferred	Australia (SA)	20.03	\$60.70	\$45.62

- BKT has discovered the **largest** high grade resource in Tanzania with excellent metallurgy
- Is undervalued compared to peers

Appendix Slide: Ulanzi cross section & block model



Cross sectional view of Ulanzi mineralised lode showing mineralisation on top of steep dipping ridge structures, ideal for low cost mining. Mining strip ratio is expected to be < 1:1 Waste:Ore.

Block model draped over 3D topography showing Ulanzi and Cascade. View looking to the North.

Appendix Slide: Mahenge Resource table summary



Category	Tonnes (Millions)	TGC (%)	Contained TGC (Millions tonnes)
Indicated	52.5	7.7	4.0
Inferred	78.6	8.1	6.4
TOTAL	131.1	7.9	10.4

Tables showing overall and individual resources by tonnes, grade (TGC%) and JORC classification category

Prospect	Category	Tonnes (Millions)	TGC (%)	Contained TGC (Millions tonnes)
Ulanzi	Indicated	35.0	8.3	2.9
	Inferred	45.5	8.7	4.0
	Sub-total	80.5	8.5	6.9
Epanko Nth	Indicated	17.6	6.4	1.1
	Inferred	20.8	5.9	1.2
	Sub-total	38.4	6.1	2.3
Cascade	Indicated	-	-	-
	Inferred	12.3	9.5	1.2
	Sub-total	12.3	9.5	1.2
COMBINED	INDICATED	52.5	7.7	4.0
	INFERRED	78.6	8.1	6.4
	TOTAL	131.1	7.9	10.4