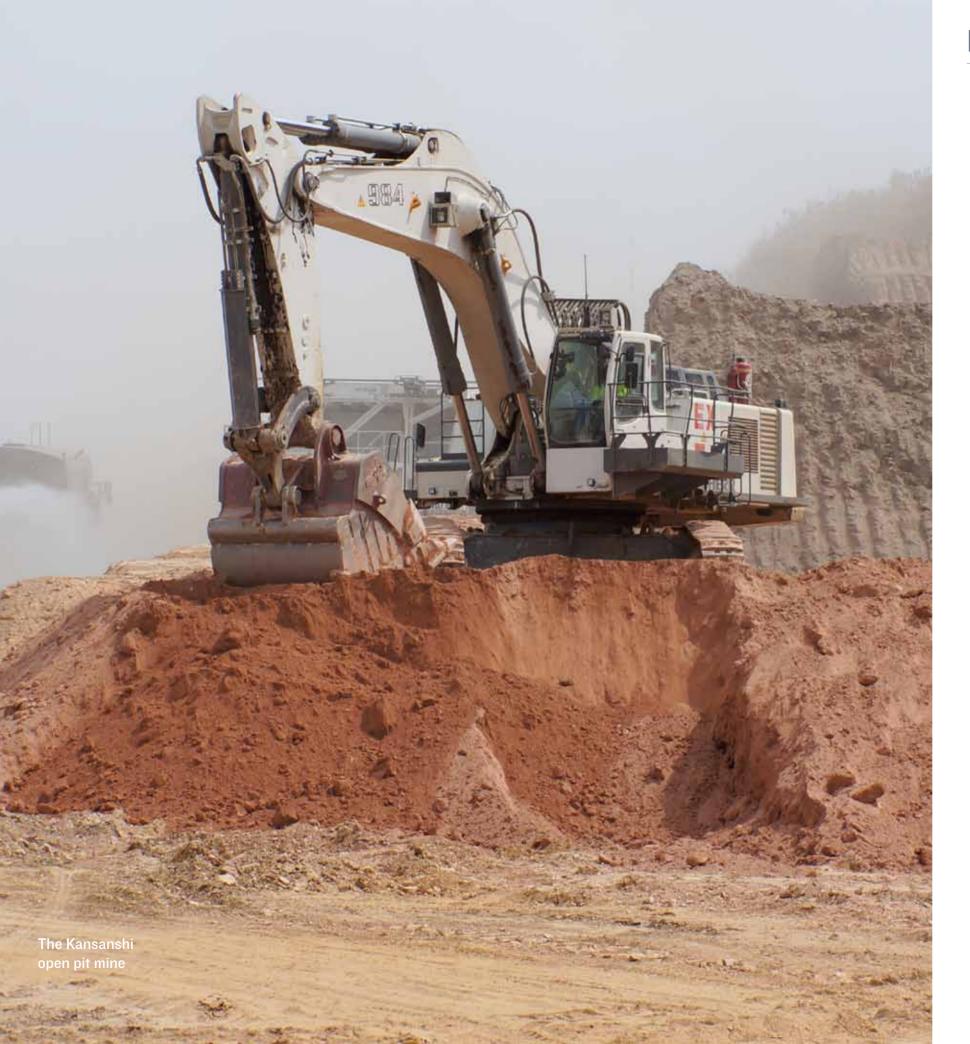


FIRST QUANTUM MINERALS: KANSANSHI MINING PLC

COPPER COUNTRY







ow can it be that a significant copper deposit, known for over 100 years, owned and operated by a progression of operators – including two leading international names – can struggle along for 93 years and then become an overnight success in 2005?

"It's not for want of trying," says Meiring Burger, mine manager at the Kansanshi Copper Mine in Solwezi, northern Zambia. "But the geology here is very difficult, with copper oxide at one end of the spectrum and copper sulphide at the other. In between there is a lot of mixed ore that mine operators simply didn't know what to do with."

At first neither did First Quantum Minerals – the eighth largest copper producer in the world and 80 percent majority owner of Kansanshi. First Quantum had been in Zambia since the mid 1990s, trying to make a living out of reclaiming lost copper from left over tailings ponds. It worked – to a degree - but in reality the operation was making more money from the acid produced as a bi-product of the reclamation process than from the copper itself due to depressed commodity prices. As a way of trying to improve matters, First Quantum started mining and exploration on a small scale until the opportunity came along to buy Kansanshi.

"Incredible as it seems," says Burger, "in the first year of operation we produced more copper there than had been produced in the entire previous century. But even we were stockpiling masses of mixed ore, not really knowing what best to do with it."

The open pit mine at Kansanshi consists

LIEBHERR MINING MORE FOR LESS



The Mining Equipment Division within the Liebherr Group enjoys the strengths and commitment of a family owned company and has achieved a high degree of trust as an active, accepted and valuable partner to the mining industry.

The Liebherr mining equipment range comprises nine hydraulic excavators ranging from IOO to 800 tons, 2 trucks (240-ton T 264, 400-ton T 284), the 60-ton PR 764 dozer and the 23-ton L 586 wheel loader. Liebherr mobile cranes are used widely in mining operations for various building and plant service activities. More types and models of these machines are currently under development.

The Liebherr-Mining Equipment Colmar SAS product line includes mining and dredging excavators powered by diesel engines or electric motors. We provide the following hydraulic excavators models: R 9100, R 984 C. R 9150. R 9250. R 9350. R 9400. R 995, R 996 B and R 9800. These excavators are equipped with bucket capacities from 7 to 45 m³ (13 to 76 tonnes material weight) and engine power ratings up to 4,000 hp. At present, 21 Liebherr hydraulic mining excavators are working in Zambia operated by major mining companies or contractors. Today, First Quantum Minerals Ltd operates 6x R 984 C Diesel, 2x R 9250 Diesel, Ix R 9350 Diesel and 4x R 9350 Electric at

LIEBHERR

Kansanshi mine site in Zambia. Liebherr has confirmed sales for three excavators to be delivered and commissioned in 2013. Liebherr has not established a company in Zambia, but we support our customers through dedicated onsite Liebherr Technicians. Our customers located in Zambia have access to the Liebherr Component Rebuild facility in South Africa. Liebherr's distribution is mostly conducted by its own sales and service organizations. This approach brings Liebherr companies closer to customer operations for a better understanding of their needs and requirements. It also allows the experienced engineering teams to adopt customer feedback into the mining equipment design. By focusing on the mining industry's needs, Liebherr designs and manufactures innovative mining products for the global mining industry and is dedicated to exceed our customers' expectations in terms of productivity, efficiency, reliability, customer support, safety and environmental impact.

Productivity

Liebherr Mining Equipment enables superior productivity by loading and hauling maximum tonnage in the shortest amount of time.

Efficiency

Liebherr combines the proven capabilities of previous models with new features that improve operational efficiency.

Reliability

To maximize equipment reliability, Liebherr combines manufacturing expertise with superior monitoring and diagnostic capabilities.

Customer Support

Liebherr builds more than just mining equipment; Liebherr also builds customer partnerships.

Safety

Mining demands an ever-vigilant focus on safety, and Liebherr strictly adheres to industry standards. Liebherr equipment is designed to diminish risk even under the most extreme mining conditions.

Environment

Liebherr optimizes mining equipment for fuel economy, emission compliance, and extended service intervals.

Contact details Liebherr-Mining Equipment Colmar SAS 49, rue Frédéric Hartmann - FR -68025 Colmar

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EXPLOSIVES THINK BINE

With more than 27 years' experience in the explosives industry, BME has steadily built its reputation as a technically-driven company that offers products and services to customers spread across Sub-Saharan Africa and West Africa.

BME believes this success is mainly associated with our dedication to excellent service, a high level of technical support, on-going development of application techniques and access to secure lines of supply.



of two very large pits in the ground that will eventually become one extremely large pit within a couple of years. The larger is 2km x 1km and currently 180m deep. The other is about half that size and goes down 100m. When the two meet up, the pit will be a massive 300m deep. The oxide ore is the weathered material close to the surface,

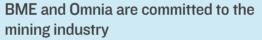


The completed pit will be 300m deep

while the fresh sulphide ore comes from below the weathering zone at various depths. Traditionally, copper mines want one or the

other because both rely on entirely different processing routes to extract the copper. What the conventional plant doesn't want

BME AND OMNIA



BME, a subsidiary company of Omnia, provides explosives and explosives related products and services to the mining industry. BME has operations in South Africa, Swaziland, Malawi, Namibia, Botswana, Zimbabwe, Zambia, DRC, Mali, Sierra Leone, Mauritania, Senegal and Mozambique.

BME's core strength, the supply of explosives to the opencast mining industry, is performing admirably and is complemented by good volume growth in its range of packaged (fractured) explosives and products in the initiation accessory field. Its sales growth in shock tube and electronic detonator products is particularly noteworthy.

Omnia just recently completed a new RI.4 billion (US\$180 million) nitric acid complex that will be the new catalyst for growth for BME. The new

plant's annual capacity of 73,000 tons (N) of nitric acid is some 40 percent higher than the existing plant, which despite being 30 years old is still in excellent condition and will continue to operate. The two nitric acid plants place the Group in a leading position for the supply of nitrates to the mining and agriculture sectors in South Africa and deeper into Africa.

BME has been involved in the Zambian mining industry since the turn of the century. Not

industry since the turn of the century. Not only is it the dominant supplier to quarries and construction throughout Zambia, it is also a major explosives supplier to the rapidly expanding mining operations in the North West Province.

BME has a major emulsion manufacturing plant at First Quantum's Kansanshi Mine and is the sole supplier to this massive mining operation.

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A modern office block of 1,100m2 located in Maken Lusaka currently used as Head Office for Lamasat International



A modern show room about 1 Km from the Lusaka Central Business District along Kafue Road



A modern shopping centre along Kafue Road, about 4 Km from the Lusaka Central Business District





Modern productions lines for pipes, fittings, polypropylene bags, blow film and plastic printing, water tanks, wood works and aluminium works.



Our company's business activities are spread out at a number of locations around Lusaka, with our Head Office being located in Chipwenpwenue Road off Kafue Road, Makeni, Lusaka. We have ultra modern facilities which include 50,000m2 of factories, warehousing facilities and modern offices.

We continually invest to grow our portfolio of facilities and currently developing show room and warehousing facilities along the busy Kafue Road in Lusaka.

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FIRST QUANTUM MINERALS: KANSANSHI MINING PLC

- and what Kansanshi has in abundance - is a mixture of the two.

The success in making Kansanshi work was "exported" to Australia. In 2004 BHP Billiton started construction of a US\$2.2 billion nickel mine but quickly closed the plant

down in January 2009, after less than a year First Quantum had developed." of operation. The mine was put up for sale later that year and bought by First Quantum



for US\$340 million.

"Our engineers," says Burger, "spent 18 months making significant modifications to processing plant. When the mine went back into production ahead of schedule, there was universal acclaim for the technical solutions

At Kansanshi, the conventional ways of processing oxide and sulphide ores are

CYTEC

Cytec Industries is the main supplier of specialty reagent technologies to the Kansanshi mine in Zambia. Cytec supplies both flotation reagents and solvent extractants. This supply position is a result of a strong relationship between Cytec and Kansanshi built up over the last seven years. First Quantum, the primary owner of Kansanshi Mining PLC, and Cytec Industries are all committed to using innovative technology and strong two-way cooperation to contribute to Kansanshi's operational success. More specifically, Cytec provides AERO® MX-5I49-selective collector, ACORGA® OPT® 55IO-solvent extractant, AEROFROTH® 68-frother and has an active flotation modifier program in progress. The selective flotation collector, AERO® MX-5I49 was introduced in 2011 to replace traditional xanthate reagents resulting in significant reductions in dosage and superior mineral selectivity in the presence of iron sulphide minerals. Additionally, the risk

CYTEC

profile of the Cytec collector is much improved as compared to xanthates.

ACORGA® OPT® 5510 solvent extractant has improved copper transfer and iron selectivity. These technical attributes have translated into lower operating costs.

Most recently, Cytec and Kansanshi have agreed to use the specialized flotation modifier technologies that Cytec has, to optimize problematic oxidized ores. The relationship between the companies is focused on serving the Kansanshi operation with innovative products that are a best fit. Additionally, Cytec is committed to supporting the operation by visiting the site for I-2 weeks each month to focus on solving technical challenges and improving operational performance. Cytec is proud to support Kansanshi via this partnership and is happy to help ensure the

success of their refining now and in the future.

www.cytec.com



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Total is one of the largest integrated oil and gas companies in the world, with a growing presence in over I50 countries.

The Group is also a first rank player in chemicals. Its 96,000 employees put their expertise to work in every part of the industry – exploration and production of oil and natural gas, refining and marketing, gas and new energies, trading, and chemicals.

With nearly 15,000 service stations worldwide, Total is among the largest refiners and marketers in Western Europe and the leading marketer in Africa. Total is a major player in the specialty products business (lubricants, aviation fuels, marine fuels, heavy fuels, liquefied petroleum gas, bitumen) and one of the leading traders of oil and refined products worldwide.

Total is committed to meeting growing energy demand while consistently acting as a responsible corporate citizen. The company is actively preparing for the energy future by progressively expanding its offerings and developing complementary next generation energy activities, with a focus on solar and biomass.

Corporate social responsibility is a pillar of our strategy and focuses on three major issues: meeting energy needs while tackling the challenges related to climate change and natural resources, curtailing the impact of our operations on people and the environment, and helping to drive social and economic development.

As a result of strong partnerships with mining companies in 40 countries worldwide, Total has developed mining solutions based on a range of high quality products with integrated services.

Total Mining Solutions adds value to mining customers by maximizing equipment availability, increasing productivity and thus, reducing their overall costs.

Supplying around 200 mining sites worldwide, Total is a partner of choice for mining companies. From the refinery to the mining site, Total Mining Solutions covers the entire supply chain, ensuring reliable delivery and product quality.

Thanks to a worldwide network of refineries, terminals and blending plants, Total is able to supply petroleum products to mining customers even in the most remote areas. Our success in partnering with mining companies is based on our ability to manage large-scale projects in complex environments. For each mining project, Total provides a combination of key success factors such as trucks equipped with on-board computers, permanent or mobile storage and dispensing facilities, filtration systems, laboratories for fluid analysis, fluid management systems, on-site technical support, etc.

Since 2004, Total Zambia Ltd has been proud to provide a complete fuel and lubrication

to provide a complete fuel and lubrication solution to Kansanshi's needs across its vast range of equipment.

Through our continuous improvement program, we work with Kansanshi to ensure our offer evolves with their requirements. This guarantees that Total Zambia Limited delivers mining solutions tailored to Kansanshi's business.

To discuss our Mining Solutions please contact the Commercial Director, Total Zambia Limited, Tel: +260 97 7 790694. www.total.co.zm

FIRST QUANTUM MINERALS: KANSANSHI MINING PLC



Excavation taking place

employed. The oxide is treated with acid to dissolve out the copper which is then won by electro-winning into 99.999 percent pure cathodes. Sulphide ore is crushed and milled before going through a flotation process which eventually creates a 26 percent Cu in

concentrate that then needs smelting to attain the final copper product.

In addition to these two processing plants, Kansanshi now has a third hybrid line for the mixed ores. First Quantum has developed a ground breaking solution which uses a modified flotation cycle. Separate to this, some concentrate



The price that First Quantum Minerals paid for the Kansanshi mine

product is leached via a high pressure leach circuit, which then feeds this leach solution into the oxide circuit for eventual electrowinning. Experience gained on this HPL circuit stood First Quantum well in their Ravensthorpe operation.

In fact Kansanshi is in the middle of extensive expansion activity. "We have a \$370m programme underway," says Burger, "to lift production at the mine from the current 250,000 tonnes to 380,000 tonnes of copper by 2015. Not only will we be mining more ore but by building our own acid plant and smelter















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Sino Grinding specializes in design and supply of various types of grinding media to different mills based on each mill's specific working conditions.

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FIRST QUANTUM MINERALS: KANSANSHI MINING PLC

SINO GRINDING INTERNATIONAL



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Ore processing has had countless improvements over the last 20 years, as have most technologies. Recoveries in the high 90%, machine reliability, but the outstanding feature has been the sheer scale and size of new project operations. "Increased throughput and lower steel and energy consumption" is the clear new instruction of shareholders.

In reaction to this, new engineering skills have enabled the primary SAG mills to grow to new capacities with the largest mill of about 14 meters (almost 46 feet) in diameter now under construction - in China. With this increase in mill size a new problem has now occurred, can the traditional grinding media survive this massive increase in impact? SGI group has been challenging the traditional grinding ball manufacturers with a new generation of technologies for years. SGI firstly focused on steel consumption as the item of most interest to the mill management teams; from this the Sino-I SAG revolutionary ball was designed in 2004. This ball was noticeably tougher with the ability to withstand continuous ball on ball actions without any noticeable breakage in the bigger SAG mills.

These days SGI offers a range (6 types in total) of specialized SAG balls from 3.5" (94mm) to 6" (150mm+). Each grade has variations in chemistry, physical characteristics, efficiencies and cost to suit the very different grinding/impact environments of all mills that SGI has encountered.

SGI first collects data first hand from mill operations people. Mill size/speed, ore size/ hardness, ball size/consumption, operations targets of throughput and grind are all part of the detailed questionnaire to set as the "starting point". Modeling is then done at SGI Head Office. These considered options, in many cases offered with performance guarantees, are then submitted to the customer. Trial testing is encouraged on a production scale so that all data can be trended from the starting point. Pieter Theunissen, SGI African Chief, makes it clear that SGI are not milling specialists. "Our customers know milling; we know steel alloying and build what they ask for. Together we usually find a better ball design in our range or a variation to that for optimum results. I suppose that as we rarely lose a customer - that this speaks for itself". SGI has offices in China, Africa, Australia (Boliver International - as exclusive agents), Canada and USA.

www.sinogrinding.com



we will become just about as self sufficient as it is possible to be."

Solwezi lies about 250 miles due south of the Katanga copper belt in the Democratic Republic of Congo and is at the end of a 160km spur road from the main north/south highway that serves Katanga's mines. "The main road is tarred," says Burger, "but we have to take care of the last

160km link ourselves. The roads are narrow and very busy, thereby restricting what we can transport that way. Not surprisingly, air transportation is vital for our business."



The Kansanshi mine is aiming to become as self suffient as possible

So much so that First Quantum has cooperated with the government to upgrade the limited facilities at the Solwezi airfield to the point where it will soon become an

BIA OVERSEAS

Located in Wavre, to the south of Brussels and with subsidiaries in more than 15 African countries, BIA Overseas s.a. operates in the sale and service of equipment for mines, quarries, public works, recycling, handling and power generation in West and Central Africa. BIA Overseas s.a. offers a wide range of equipment and accessories from well-known manufacturers such as Komatsu, Sandvik, Bomag and Cummins.

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Given the nature of our business, the environment at BIA is flourished by the passion for high standards and excellence. This level of quality is mandatory to face the challenges at hand, from Belgium to the most remote places in Africa. Alongside our engineers, technicians and project managers from around the world, BIA is composed of the finest minds in finance, logistics, services, human resources and general administration.

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FIRST QUANTUM MINERALS: KANSANSHI MINING PLC

international gateway. "The airstrip has been extended to 2.7km," says Burger, "which means Boeing 737s can land now. The buildings are being improved and we are currently waiting on the government to install customs and immigration personnel before declaring Solwezi as the country's newest international airport."

With such a long road journey for anything and everything that needs to be trucked into

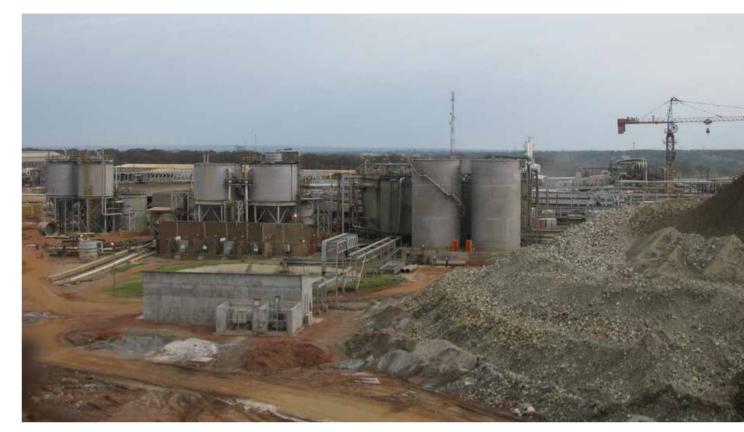
the site, Kansanshi is on a mission to reduce costs wherever possible. "We are currently using 250,000 litres of fuel a day," says Burger, "which all has to be brought in by tanker – a huge logistical challenge before mining even starts. We have a couple of major initiatives that will reduce our dependency on outside sources of fuel and should reduce our operating costs significantly."

In a move designed to cut down on the

"OUR PLANTS USE 1500 TONNES OF ACID A DAY, WHICH AT A NOMINAL COST OF \$300 PER TONNE IS ALMOST HALF A MILLION DOLLARS EVERY DAY"



Kansanshi vehicles currently use 250,000 litres of fuel a day



Plans are under way to reduce costs by constructing a new 1.2 million tonne concentrate smelter

number of truck movements needed per day, a new in-pit crushing plant is a key part of the expansion plans which will enable much of the ore to be moved by conveyors from pit to plant.

Where truck transportation is inevitable, a new electric trolley assist system is being installed. By fitting trucks with a couple of electric drive motors, integrated through gears with the conventional diesel engine, much of the work can be done by electric power, fed to the trucks by an overhead catenary. Going uphill, trucks can tap into the main grid and get a helping boost of power.

Another high cost area of the business, and onerous logistical consideration to boot, is the amount of sulphuric acid consumed. Either acid itself or the base ingredient sulphur is needed.

"Our plants use 1500 tonnes of acid a day," says Burger, "which at a nominal cost of \$300 per tonne is almost half a million dollars every day. It's one of our biggest cost centres, accounting for about 11 percent of production costs. Today, as we are talking, a new 900 tonnes per day acid plant is being commissioned which will help minimise overall production costs until the final link in the chain – a new 1.2 million tonne concentrate smelter is complete."

Considering the amount of copper produced in the region, Zambia currently doesn't have enough smelting capacity to cope. First Quantum is investing \$500 million in its own smelter at Kansanshi capable of processing 1.2 million tonnes of concentrate from which 300,000 tonnes of copper will



A division of Cargo Carriers



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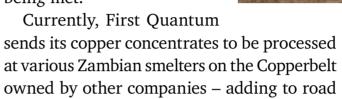
with head office located in Ndola, Zambia is known and recognised as one of the leaders in transport and logistical sectors in Zambia. Cargo Carriers, a listed globally known company recently acquired the majority share in BHL. As a team our vision is to improve the quality of transport and logistics in Sub-Sahara Africa. We promote community up-liftment, diversity and sustainability.

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FIRST QUANTUM MINERALS: KANSANSHI MINING PLC

be extracted (compared with the eventual mine capacity of 380,000 tonnes). Civil work for the project has started and the smelter should be in production by the end of 2014, coinciding with the increased production targets being met.



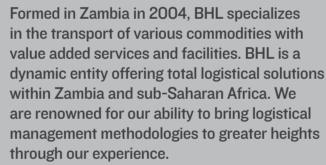


congestion as well as cost. "When our expansion plans are complete," says Burger, "there will still be a shortfall of smelter capacity but the figure will be very small compared to what we are doing today."

Apart from refining the copper, the smelter will

produce more than 3,000 tonnes a day of sulphuric acid at almost zero cost, minimising the production costs of high acid-consuming

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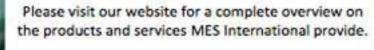
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FIRST QUANTUM MINERALS: KANSANSHI MINING PLC

oxide ores as well as the leaching process used on mixed ores.

As with all African mining companies, finding experienced workers is also a challenge, but Solwezi is actually quite a sizable community. When First Quantum first went there the population hovered around 100,000. Today it has swelled

to above 400,000. "We have around 9,000 people on site," says Burger, "4000 on our payroll and the rest hired by construction and



The Kansanshi mine is undergoing extensive expansion

other contractors. Accommodation for them is not so much of a problem but it has meant that Solwezi has grown into a bit of a shanty town

MES INTERNATIONAL LTD



MES International Ltd is an established supplier of products and services to the mining, quarrying and recycling industries. Since its formation over four decades ago, MES has built its reputation as a "can do" supplier, available 24/7 to respond to breakdowns and urgent requirements with the highest level of service required for these unforseen occassions. MES International truly is a "one stop shop" for your operating needs. We supply the highest quality precision engineered crusher spares for machines including Nordberg, Svedala, Telsmith, Sandvik, Allis Chalmers. Our conveyor belting is available from several locations throughout Africa, in a range of widths and strengths to meet your requirements, and with a 24 hour breakdown response, we are always here when you need us. With our team of highly qualified and experienced vulcanisers, we can undertake

hot & cold joints, pull up joints, clipped endless joints, maintenance and training etc. We manufacture Material Handling Systems including Installation & Commissioning, from overland conveyor structures to waterside loading systems. We also design, re-design, maintain and supply conveyor structure and radial stacker systems, along with drums, rollers and take-up units through our Engineering Services, who can also provide strip down and re-build services for crushers on scheduled shutdowns. New, used and refurbished Site Equipment including plant and machinery can be supplied for your site requirements. MES look forward to continuing to provide Kansanshi Mine with their crusher wear parts and conveyor belting, safe in the knowledge that they are to the quality they know and trust.

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Haul trucks

with very little in the way of organised town planning. We do a lot to improve matters – at the moment we are building 1000 additional houses - and are willing to do even more to make conditions better for all concerned but it's a sensitive area with the local council wanting to stay in control."

It shouldn't be a question of money. Kansanshi is said to be Zambia's biggest source of revenue. Apart from the 20 percent of Kansanshi that is owned by the parastatal ZCCM IH, First Quantum contributed US\$611 million last year in various taxes – double the previous year.

"But there are no existing mining skills amongst the local population," says Burger, "and we have an obligation to try and give employment to those who actually come from this region. It's a challenge. Many have never even ridden a bicycle – let alone a car – and now they are in control of mining equipment worth many millions of dollars. As you can imagine, there is a lot of training needed and a considerable amount of supervision."

The weather can also contribute problems. During the rainy summer season from November to April, it rains 10 to 50mm almost on a daily basis. Not surprisingly, a

lot of this ends up at the bottom of the pit and at their height, drainage pumps are shifting 75,000 m3 of water a day. On the other hand, the rain is short lived and predictable, which has enabled the mine to plan accordingly to minimise disruption.

But Kansanshi is not the only African interest owned by First Quantum. Part of all its Solwezi expansion plans is the development of three new potential mines that collectively go under

"THERE ARE NO EXISTING MINING SKILLS AMONGST THE LOCAL POPULATION. AS YOU CAN IMAGINE, THERE IS A LOT OF TRAINING NEEDED"



FIRST QUANTUM MINERALS: KANSANSHI MINING PLC

the working name of Trident. The one nickel and two copper prospects lie about 120km from Kansanshi and will cost in the region of \$1billion to develop. Once in opencast production, Trident is expected to eventually contribute 300,000 tonnes of copper per annum.

First Quantum should be a big player over the border in the Democratic Republic of Congo, too but a dispute with the government there has shut down all activity. The mining company had invested \$1 billion developing the Kolwezi copper-cobalt project, only to see it seized by the authorities. A second interest at the Frontier mine – reputed to be the Congo's biggest tax contributor and providing employment for 1,500 nationals, was also seized by armed police and soldiers in 2010, seemingly in retaliation for contesting the Kolwezi action in international arbitration. Ultimately the matter was settled out of court with ENRC compensating First Quantum for their seized assets.

In the meantime, First Quantum is working hard on meeting its objective of becoming 'a globally diversified mining and metals company.' In the absence of activity in the Congo, it has a portfolio of four operating mines in Zambia, Australia, Finland and Mauritania, producing LME grade "A" copper cathode, copper in concentrate, nickel concentrate, gold and sulphuric acid. In various stages of development are another three projects: two in Zambia and one in Haquira in Peru.

For more information about First Quantum Minerals: Kansanshi Mining Plc visit: www.first-quantum.com



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