

THE DIRT



SUPER SHUT

During April the Fimiston Plant underwent its biggest shutdown since February 2015, with over 620 contractors working with KCGM personnel to complete the massive undertaking within 5 days.

KCGM's Fimiston Processing Plant operates two grinding and primary crushing circuits in parallel, the Fimiston and Mt Charlotte circuits. These then feed into a common flotation and recovery circuit.

"...DUAL SHUTDOWNS ONLY TAKE PLACE EVERY 12-18 MONTHS..."

The operation was known as a 'dual shut' as it involved extensive work on both circuits. Key jobs, known as 'Critical Path Tasks' revolved around the dual areas of concentrates and tails areas, which are only accessible together during a dual shutdown.

During a shutdown KCGM undertakes work to refurbish and replace worn out equipment, maintain structural integrity, and complete equipment inspections, including statutory requirements.

KCGM Shutdown Coordinator

Brodie Clynk explained one of the key tasks that made this shutdown unique. "We undertook some work beyond the scale of any previous shut. The dual shut included integrity tasks with blasting and painting at various locations, and also Sub Station Power outages, which presents challenges, as you're trying to complete the major shutdown tasks while minimising interaction with personnel."

One of those major tasks involved relining the feed and shell components on the Fimiston Primary SAG Mill. This job is typically only conducted every second or third shutdown due to its scale, complexity and requirement for specialised resources.

Impressive numbers were part and parcel of this shutdown with 25,000 man hours of completed work, 15 generators, 13 cranes, 12 lighting towers, 9 elevated work platforms and 6 forklifts all contributing to the success of the operation and enabling the maintenance stage to be completed ahead of schedule.

As Brodie indicates, coordinating

such a complex undertaking comes down to reliance and trust in your people. "All the work crews involved throughout the entire process did a fantastic job, with KCGM personnel and contracting teams working seamlessly to keep everything on track; the best result was we didn't incur a single reportable injury."

While dual shutdowns only take place every 12-18 months, regular planned maintenance shutdowns are undertaken every 10-12 weeks on the individual grinding and primary crushing equipment, alternating between the Mt Charlotte and Fimiston circuits. Planning is already underway for the next scheduled maintenance shutdown in June.



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THE DIRT

HAVE YOU GOT SOMETHING
DIRTWORTHY? DON'T JUST
READ IT BE PART OF IT...

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and edited by the SER
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Welcome to edition 90 of The Dirt. It's a bit exciting that before too long we'll have published 100 editions of our internal newsletter. The first edition went to print way back in November 2001. I certainly haven't been with KCGM as long as that but I know there a few of you here who have. Congratulations to you for your contribution to KCGM and congratulations to the Community Relations team in continuing to find informative and entertaining stories over the years.

Speaking of achievements, the dual shutdown which took place in the middle of April was certainly an impressive accomplishment. The entire operation took 5 days to complete and was executed without a single reportable injury; a testament to the attitude toward risk management by KCGM people and all of our contractors. Given the diverse range of tasks and equipment and sheer volume of personnel, this is a great

achievement. The cover article of this edition will give you an idea of what was involved.

Autumn is well and truly with us - we've had a few chilly mornings lately and you've probably been reaching for that extra blanket. Colder weather always brings with it an increased risk of sprains and strains so I encourage everybody to keep stretching before and during shift; not only to reduce your risk of injury but also to warm you up and help you shake off that pre-shift chill.

I know there are probably more summer-lovers than winter-lovers in Kalgoorlie-Boulder but the changing seasons are what make the Goldfields a great part of the planet. For me, I can't wait for a bit more rain so I can get out to some of my favourite dirt-biking locations and get amongst the mud.

Stay safe.

Steve Price
Mining Manager

EVENTS

MAY 2016

15

Boulder Market Day

GETTING DOWN



KCGM continues to ramp up efforts to extend the life of the mine, with surface drilling progressing at Mt Charlotte. The drilling is part of an ongoing program to explore for potential expansions to the existing Mt Charlotte Underground Mine.

A series of holes are being drilled from above the existing underground operations, with the drill rig currently positioned at the northern end of the Glory Hole exploring the Northern Ore Body. Once drilling is completed in that location the rig will move south into the core yard, where it will commence drilling into the Reward Ore Body.

As KCGM Resource Development Superintendent Chris Buxton explains, the drilling program is not without its challenges. “The area we are exploring contains old workings which can occasionally create issues for the drilling process; however the Mt Charlotte Geology Team and our contractors from Swick are doing a great job overcoming any hurdles.”

The drilling program will continue throughout May.

SWIPE IT

The Security Gatehouse building located next to the boom gates can now only be accessed using your swipe card. Swiping in or out of the building will not register you as being on or off site. The only swipe card readers which will do this are those located at the boom gates or the pedestrian entry next to the Security Gatehouse window.

If you require entry to the Security Gatehouse building for any reason (meetings, training etc.), even if you are not entering site, you must first swipe in at the boom gates or pedestrian entry and then swipe into the building. This process must be reversed when leaving the building to ensure you are registered as having left site.

If you are already swiped onto site through the boom gate and need to access the building, you only need to swipe using the building card readers as you are already registered as being on site.

Visitors requiring access to the building will be provided with a swipe card along with instructions for its use and return.

Clear signage, road markings and guide posts are essential for ensuring the safe movement of vehicles and equipment around site. With our vast network of roads, ramps and thoroughfares, maintaining this vital infrastructure keeps one work team very busy.

Meet Tash Bowerman, Maintenance Supervisor for Force Equipment. While Tash has only been working full-time at KCGM for the past 10 months, she is no stranger to our operations. Tash worked as a casual Loader Operator for Force at both Kanowna Belle and KCGM prior to commencing in her current role.

As Tash explains, maintaining road signage, markings and posts is just one aspect of their team’s daily work. “We’re involved in a number of other maintenance and servicing tasks across site including preparation of site works, painting, repairs,

THE PROFILE

TASH BOWERMAN



anything from as small as fixing doors through to remodelling the fuel farm.”

For Tash, the change to being permanently based at KCGM has had a number of benefits. “Working closer to town is obviously a big bonus, but it’s also about the job and the great team we have here on site. The variety of tasks we undertake keeps the work interesting and I’ve never experienced a safety culture as comprehensive as we have here; it’s what keeps me wanting to come to work every day.”

Moving from Tasmania 5 years ago, Tash and her family prefer the Goldfields weather and make the most of the outdoors. Besides football and netball, they like camping and motorbike riding, with Tash claiming she can still show her teenage kids a thing or two on their Yamaha YZ 230 trail bike.

GIFSA TOUR



The Goldfields Individual and Family Support Association (GIFSA) supports over 250 people with disabilities, families and carers in the Goldfields.

Members of GIFSA had an action-packed day out on April 13, starting at Hannans North Tourist Mine. Despite the wet and windy conditions, the group of 22

children and 10 adults enjoyed the attractions and activities, with a climb up into the haul truck cab the highlight of the visit. KCGM organised a bus to pick the group up from the tourist facility and bring them to site for a tour of the Fimiston operations.

Stopping to view the crushed Light Vehicle mounted near the front boom gate, the tour continued down Black Street, pausing temporarily before the haul road underpass to provide everyone with a view of the old mine workings fenced off on either side of the road.

From there it was down to Mining Maintenance where the tour participants were able to get close to the face shovels in the lay-down yard and the haul trucks in the service area.

Normally the tour would head down D Ramp to the lookout platform, however due to the weather the bus took an alternative route to Harvey Hut, which turned out to be a blessing in disguise. The tour just happened to pass

near a waste pad at the moment a haul truck dumped its full load, creating an exciting spectacle for the group.

With Harvey Hut providing shelter from the rain, everyone took the opportunity to take photos and enjoy a view of operations on the pit floor before heading to the crusher for the final stage of the tour.

As GIFSA Team Leader Serena Kaese explains, despite the inclement weather everybody had a great time. "A lot of us have never been here before so it was really exciting to actually come into the mine and see it close-up. Of course the kids love anything to do with big trucks, machinery and digging so they had an absolute ball."

Some of the children have one or both parents working at KCGM which made the excursion extra special.

KCGM DONATION DRIVES BENEFITS

When KCGM employees and contractors achieve one million hours without a Lost Time Injury (LTI) they are rewarded with a bonus. Around 7 years ago staff decided they would prefer to share the bonus with the Kalgoorlie-Boulder community. Since then a number of community groups and organisations have benefited from a donation of the LTI bonus.

We have followed up with some of the recent recipients of the LTI Bonus so that you can see how your generosity has helped members of our community.

The most recent LTI Bonus of \$12,000 was donated to local support organisation Life Without Barriers in August 2015. Life Without Barriers (LWB) is a national not-for-profit organisation providing support for people with a disability, and for children and young people in Out of Home Care in the Goldfields. The organisation supports children through specialised and general

Foster Care as well as operating two Family Group Homes.

LWB also runs a Driver Training Program for Aboriginal adults and young people to help improve independence and job-seeking opportunities. With the assistance of KCGM's donation, LWB has helped more than 70 participants obtain a Motor Vehicle Licence. The program's instructor Silvano Fasolo works with participants to overcome obstacles, which can include lack of appropriate identification documents and funding to pay registration fees, reconciliation of outstanding fines or simply a lack of confidence or opportunity. The training includes all aspects of safe road use and the accumulation of required practical driving hours.

One participant who has recently benefited from the program is Janet Sinclair, who has managed to attain her licence after self-admittedly procrastinating for over 13 years. Janet has grandchildren in her care

and she is particularly excited as she will now be able to transport them to school and sporting events herself.

LWB Goldfields Operations Manager Sheryl Liddicoat is proud of Janet's achievement and the flow-on benefits of the program. "Along with greater mobility for individuals and families, having a driver's licence improves your access to employment and increases levels of community engagement."

Previous KCGM safety milestone bonuses have been donated to the Mayor's Blanket Appeal, the Goldfields Aged Pensioners Relief Fund, the Kalgoorlie Regional Hospital, Goldfields Women's Refuge, Goldfields District Scouting Association, The Goldfields Regional Toy Library and Goldfields Rehabilitation Services.

We will follow up with some of these organisations over the coming months.

FROM CORNWALL TO KALGOORLIE



On April 11, 18 students and 2 lecturers from the Camborne School of Mines in Cornwall visited KCGM to expand their knowledge of the mining industry. The students are all studying for a Masters in Mining Geology and visited a number of mining operations across the Goldfields.

Upon arrival the group were given an overview of KCGM operations by Project Geologist Simon Davies and a presentation detailing the Grade Control process by Graduate Mine Geologist Sarah Dyer.

Senior Technical Geologist David Nixon then gave the students a background to mining exploration, providing opportunities to handle and discuss a range of rock and ore samples.

A visit to the drilling location near the entrance to the Super Pit Lookout was next on the agenda, where the students were given a practical introduction to exploration drilling, a process most of them had never been exposed to before.

The tour was also specifically scheduled to ensure the students could view a blast in the pit from Harvey Hut; a rare spectacle for the group and one that generated plenty of excitement and discussion.

Accompanied by Metallurgists Maria Maloba, Chris Gianatti and Jason Lin, Senior Metallurgist Mellie Mavatoi and Senior Process Control Engineer Marcus Szolkowski, the group headed into the mill for a comprehensive tour of the plant and discussion of mineral processing.

As Simon Davies explains, the KCGM visit is a continuation of a tradition. "This is the 11th year in a row the students have come here; for a lot of them it's the first time they've experienced working mine sites so it really adds some practical operational exposure to complement their university study."

The students will each produce a report on their educational tour and we can expect a new group from Cornwall to visit again next year.

MEET THE MINISTER

During a recent visit to Kalgoorlie-Boulder, the newly appointed Minister for Mines and Petroleum, Sean L'Estrange was keen to fit a visit to KCGM into his busy schedule.

Accompanied by executives from the Department of Mines and Petroleum, Acting Deputy Director Phil Gorey and Regional Inspector for Mines Doug Barclay, the Minister was hosted by General Manager Ian Butler, Mining Manager Steve Price and Acting Sustainability and External Relations Manager Jacqui Niemand.

The group was given a presentation providing an overview of KCGM's operations, information regarding the Life of Mine and possible future extensions, and KCGM's role in the economic and social makeup of Kalgoorlie-Boulder.

Following the presentation, Mark Shaw, Mine Production Superintendent and Matt May, Production Coordinator took the group on a tour of the Open Pit. On the Minister's previous visit in the 70s, the Super Pit was still a network of individual tenements and underground workings, so he found the Pit in its current form particularly interesting.

As Steve Price explained, the Minister was impressed with our operations and asked plenty of questions. "We discussed a number of topics on the tour, from our underground exploration, voids management and historic workings, the pit fleet and Maintenance Optimisation Project, through to our continued efforts to reduce costs and ensure sustainability."



MATERNITY GOES HI-VIS

New hi-vis KCGM shirts specifically designed for pregnant women are now available. The shirts are designed to provide maximum comfort and flexibility without compromising on safety.

When ordering PPE on either an Annual or Fair Wear and Tear basis, remember to complete the Clothing Request Form, obtain approval from your Supervisor and contact your

Department Secretary to organise the order. If you require a maternity work shirt, please specify this when ordering.

The Clothing Request Form is located within KIMS on the KCGM intranet: KIMS > Human Resources > Employee Entitlements, Remuneration and Benefits > Forms & Templates > Clothing Request Form.

PARTICIPATION THE KEY

Ergonomics is the study of how a workplace, the equipment used there and the work environment itself can best be designed for comfort, efficiency, safety and productivity. Often we can improve these factors with relatively simple changes.

An ergonomic hazard is a physical factor within the environment which harms the musculoskeletal system. Ergonomic hazards include repetitive movement, manual handling, task duration, vibration, workplace/job/task design, uncomfortable workstation height and poor body positioning.

Sprains and strains contributed to almost 50% of all reportable injuries at KCGM in 2015, with these injuries predominantly resulting from ergonomic hazards.

The KCGM Participative Ergonomics Project trial phase has commenced, with the aim of identifying and controlling ergonomic hazards in certain work areas to reduce the potential for injuries to our people.

Ergonomic Champions in Mineral Processing have been undergoing training in the identification and control of ergonomic hazards. These Champions will continue training over the coming months and take the knowledge and skills back into their work areas.

For more information on the project contact KCGM Physiotherapist Silpa Dasariraju on 9022 1233.

MAJOR MILESTONES

10 Years of Service

Mining

Dale Armstrong

Aaron Skelton

BOOKED IN



Hannans North Tourist Mine recently hosted the official launch of a new book charting the history of silicosis, a debilitating industrial disease experienced in the mining industry.

The book, written by prominent historian and academic Dr Criena Fitzgerald is titled *Turning Men Into Stone: A Social and Medical History of Silicosis in Western Australia 1890-1970*.

As Dr Fitzgerald explains, the book provides an introduction to silicosis, a disease which affected Goldfields miners in the 20th century.

The launch was well attended and included a presentation by Dr Fitzgerald. The book is available for \$50 from Hannans North Tourist Mine, Kalgoorlie-Boulder Visitor Centre, WA Museum (Kalgoorlie-Boulder) and the Outback Family History website: www.outbackfamilyhistory.com.au

BOUNCE DOWN

KCGM will once again battle it out in the annual friendly footy match against the Kalgoorlie Masters Football Club (KMFC) on May 13.

The game is played according to AFL Masters Modified Rules to minimise injuries and maximise participation, which means anyone of any age, gender or skill level is encouraged to play.

Contact Brodie Clynk on bclynk@kalgold.com.au or 0417 881 697 if you are interested in playing or just turn up and show your support for this family event.

Bounce down for the game is 6pm Friday May 13 at Morrison Oval and a BBQ will be held after the game.



APRIL CORE VALUES CHAMPIONS

Warren Linto, Mechanical Engineer: Warren expressed concern regarding the Gidji 2 East Cell filling prior to wall completion. Warren initiated stakeholder management and surveys, resulting in no detection being required and saving KCGM variation costs due to unnecessary acceleration of schedule.

Dan Kavanagh, Senior Drill and Blast Engineer: Dan noticed some fallen transported items causing traffic hazards on his way home from work. While other drivers simply drove around the hazards, Dan stopped safely and removed the items from the road.

Andrew Blunt, Truck Operator: Andrew noticed a noise coming from truck 213 whilst servicing trucks on the fuel farm. Andrew contacted the Westrac Supervisor and further inspection revealed the flange bolts holding the turbo in place had come loose.

Richard Whiter, Truck Operator: Richard provided ideas to increase efficiency of trucks through shorter haulage, minimising the requirement for emergency access road construction. Subsequent road design saved on dozer operating hours and volume of required road base, also allowing additional room to reclaim the dump if needed.