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Site Establishment at Sasol Impumelelo Mine

Redpath South Africa has been contracted to raise drill two ventilation shafts, each measuring 183m in depth and 7.28m in diameter. As of May 15, 2017, the project has completed 138 days LTI free. Pictured, the Redbore 90 stands proud shortly after site establishment at Sasol Mining's Impumelelo Mine in the Mpumalanga Highveld.

The Impumelelo Mine consists of an area of approximately 21,000ha in size. Coal is mined from the site utilizing a combination of underground mining methods (bord and pillar, and high extraction/stooping). Sasol Mining has been mining coal in the Secunda area for more than 30 years. The main purpose of Sasol Mining's Secunda operations, is to supply coal to Sasol Synfuels, which utilizes various processes and beneficiates the coal into a number of products such as petrol, diesel, plastics and various chemicals.



Redpath Whenan Shaft Project



The Redpath Whenan Shaft Project team commenced mobilization to the BHP Billiton Olympic Dam site in South Australia at the end of January 2017. Several of the management team arrived early to the site to complete inductions and training, allowing work crews and other project members to follow - including the arrival of our office complex, energizing buildings, establishing laydown areas and taking possession of the existing site and workshop.



Crews are currently being recruited and mobilized to the site for induction and training. Engineering, safety and operations are busily preparing the documentation required for the complex task ahead of de-constructing the existing shaft and preparing it to be relined with a new concrete liner and then installing a new set of shaft furnishings.

The project has engaged a number of North American expats and Australian personnel to provide their valuable assistance and expertise. The North Bay Engineering Dept. is heavily engaged in providing the design documentation of the equipment and plant required for this challenging project.

The project is expected to be delivered in 24 months with a 6 month period for the design, installation, commissioning and mobilization phases. The project involves the refurbishment of the 35 year old rectangular Whenan shaft including demolition of the existing steel shaft furnishings, strata control, concrete lining and installation of the new shaft steel and guide system.

GBC 613 TRANSFER – 614/618 CONVEYOR – GRS 70 UPDATE

“The most challenging mass excavation that Redpath Indonesia has done on site”

In February 2017, P.T. Redpath Indonesia's Grasberg Block Cave group reached an outstanding achievement by finishing the mass excavation of the 613 Transfer – the most challenging mass excavation that we have ever completed on site.

There are a few reasons why this has been our most challenging project:

- The size of the excavation: The total volume is 52,000m³ and the height is equal to 15 stories.
- The chamber connects four different mass excavations.
- The unique shape of the excavation in challenging ground conditions.
- The excavation of this chamber is broken through immediately above the GRS 70 conveyor – one of the active conveyors feeding the Grasberg pit's ore to the mill.

The project was kicked off in 2013 with the Alimak crew installing 34 sets of steel, set 1m apart, in the GRS 70 breakthrough chamber area to reinforce the ground above and to provide additional attachment support for the active conveyor. Steel sets were then covered with timber and steel plate. The 613 transfer chamber excavation and drive station have 3 passes in sequence. All blasting has been controlled with



Above: A crew member posing at the breakthrough round post-inspection

single shot blasts with an electronic detonator so the peak particle velocity won't exceed 15mm/s. The 614/618 Conveyor has 2 passes in sequence. This excavation then breaks through to the 613 Transfer and Drive Station.

Once the permanent supports (resin bolt, cable bolt, and shotcrete) were in place, another three passes were required to breakthrough to the GRS 70. The last breakthroughs were done with a single shooting of 250 vertical blast holes right above the GRS 70 Conveyor. The blast was completed safely without any damage to the structure of the conveyor, allowing the conveyor to be up and running in just 5 minutes after the blast. The Alimak crew took over the project to finish up the ground support prior to handing things over to the central service group.

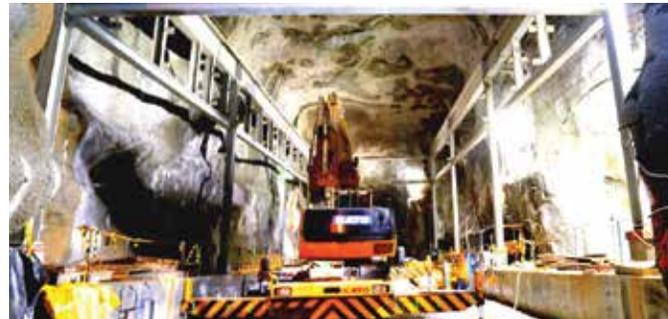
Thank you to the entire team!



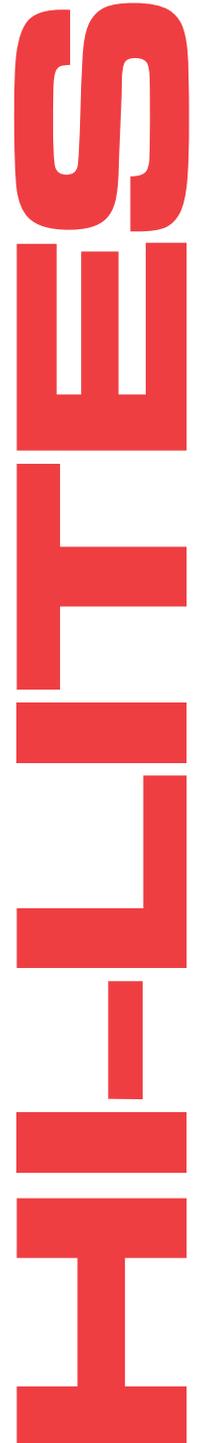
Above: Second pass excavation of the 613 Transfer



Above: A view from 613 Transfer – the blasters loading the breakthrough round to GRS 70



Below: Construction progress in 613 Drive Station





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Consulate General of the Republic of Indonesia Visit

Together with newly appointed Consul General, Mr. Hadi Sapto Pambrastoro, representatives from the Consulate General of the Republic of Indonesia visited Redpath's office and raisebore facility in North Bay this February. Bruce Mennie, Vice President, International Projects, delivered a presentation about Redpath and Global Operations, giving an overall understanding of the business and our involvement with the Freeport project in Indonesia. Our guests then visited the raisebore shop where Yves Benoit, Sr. Engineer and Estimator, Raiseboring, and Rick Pearson, Shop Foreman, Raiseboring, did a great job explaining engineering, procurement and manufacturing of the Redbore line of drills. The visit was also an opportunity to spend a few hours experiencing a popular Northern winter pastime, dog sledding in South River. Energetic dog teams, cold weather, fresh snow and blue skies made for perfect conditions to experience the Algonquin scenery. Our guests thoroughly enjoyed the adventure and another way to experience winter in Canada. This visit built onto the already strong relationship between the Consulate General of the Republic of Indonesia and Redpath.



Below: Posing together after the dog sledding



Above: Posing together in front of the newly built Redbore 90EX raisedrill

Far Left: Bruce Mennie (VP, International Projects) presenting a Redpath miner's lamp to Mr. Hadi Sapto Pambrastoro (Consul General)

Top Center: Left to Right Mr. Abul Siregar (Consul of Economy Staff), Sarah Morin (HR Coordinator), Mrs. Nancy Kusbayanti (Consul of Economy), Mr. Hadi Sapto Pambrastoro (Consul General), Bruce Mennie (VP – International Projects), Katherine Gosselin (HR Director), and Martin Hunka (CFO, Americas).



PROJECT WIN: PLATINUM GROUP METALS' MASEVE MINE

Redpath Mining South Africa has won a tender to provide bord and pillar mining, hybrid mechanized mining and ore transport (from Block 11) to Platinum Group Metals' Maseve Mine, located in the Western Bushveld, (North West Province) South Africa. The changeover to Redpath as the principal mining contractor at Maseve was undertaken with affected parties during the latter part of the first fiscal quarter ended November 30, 2016 and into early January 2017. The operational and administrative changeover is now well advanced. Redpath has also entered into a letter of intent whereby we will install, operate and maintain a 1km conveyor towards Block 11, linking into underground silos and the existing 1.4km conveyor to surface and the 1.7km conveyor system into the mill. Redpath has been successfully providing efficient long hole mining services to Blocks 9 and 12 since June 2016.

Reaching Out to Young Mining Professionals



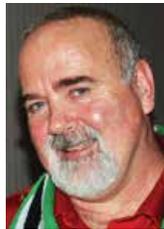
Redpath's South African office recently partnered with the South African Institute of Mining and Metallurgy (SAIMM) to host the 3rd Young Mining Professionals Conference. The conference, which took place in early March in Pretoria, gave young mining professionals the opportunity to interact with peers and industry thought leaders on the topic of innovation and unlocking the future of the African mining industry, today.

Graham Roberts (GM - Projects/Tendering) had the opportunity to present on one of Redpath's latest innovations, the Redtrax raise drill transporter. Graham shared the floor with a number of other well-respected thought leaders from within the African mining industry, who presented on topics such as:

- Alleviating graduate unemployment in the mining sector
- The effects of social and technological innovation on leadership
- Innovative initiatives for improving energy efficiency of truck and shovel systems
- Digital technology in South African Mining



Ron Koebel (L) presenting Ioannis Vekopoulos (R) with his Practical Loss Control Leadership course certificate in Greece.



Where in the world was...

BRUCE FRASER?

Manager, Safety Training and Safety Leadership Development (and roving reporter)

Canada: Sudbury | USA: Alaska



Two "Train the Trainer" courses were conducted over the last few months. One in Sudbury, Ontario at the North Mine project, and one in Alaska, USA at the Pogo project. Below are some highlights.



Above: The group photo from the class at Pogo.

Front row (L-R): Derek Blake, Tony Steenhoff, Bruce Fraser, Bob Delbridge, Mark Immonen

Middle row (L-R): Mike Callahan, Steve Chavez, Tony Beamon, Don Stewart, Jeremy Bell

Back row (L-R): Elijah Porter, Shawn Smith, Matt Zawada



Miner Michael Callahan (R) reviews the inspection of a fall protection body harness at Pogo.



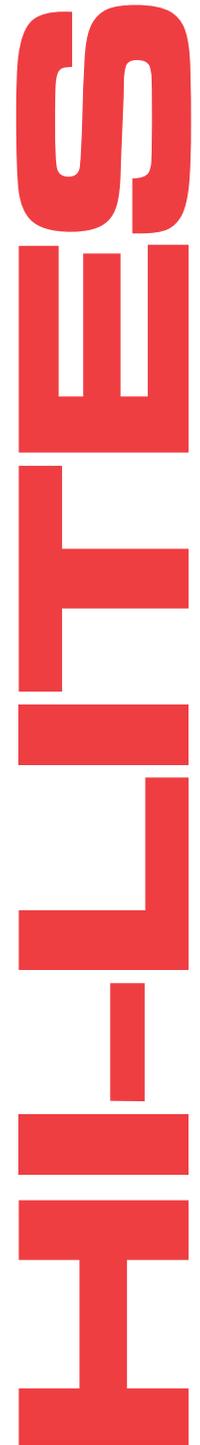
Electrician Derek Blake (R) teaching some of the finer points on ground fault systems for the jumbos at Pogo.



Welder Randy Thaxter setting up a portable welder to teach his student how to tack weld in Sudbury.



Above: Matt Sandrin (L) and Bruce (R) getting rid of some nerves by having some singing fun at the Sudbury office.





Safety - First, Last and Always.



Shawn White (R) receiving his 5 Year Safety Award from Project Superintendent, Ty Cortner (L) at the Pogo project in Alaska.



Nate May (R) receiving his 5 Year Safety Award from Project Superintendent, Ty Cortner (L) at the Pogo project in Alaska.



Hugh Seward (R) receiving his 5 Year Safety Award from Project Superintendent, Ty Cortner (L) at the Pogo project in Alaska.



Carl Pierson (R) receiving his 5 Year Safety Award from Project Superintendent, Ty Cortner (L) at the Pogo project in Alaska.



Jacques Souriol (R) receiving his 5 Year Safety Award from Ray Blanchard (L) at Musselwhite in Ontario.

**Celebrating
Safe Work and
Professional
Development**

Congratulations!

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