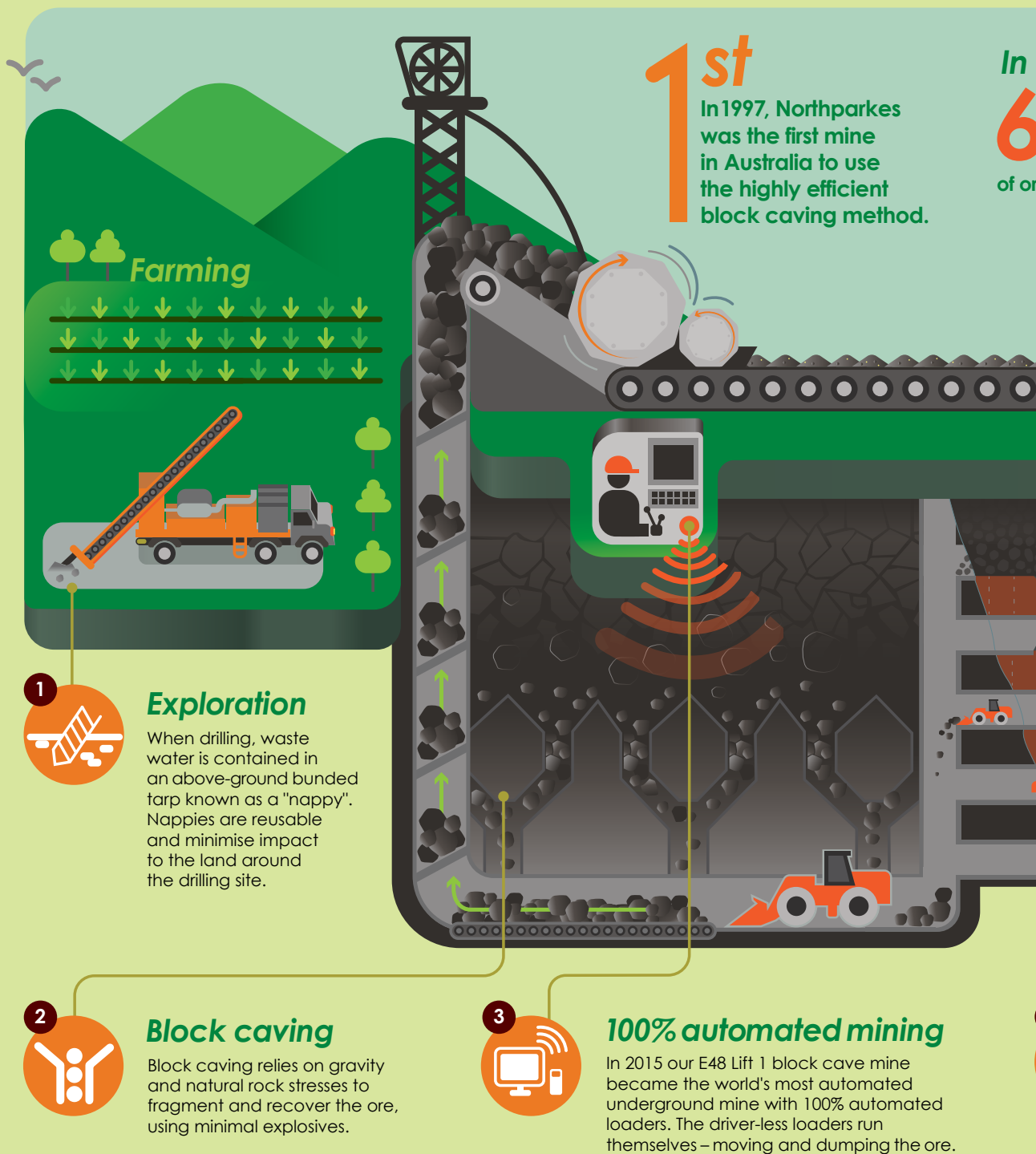


Northparkes Mines
A century of mining together



The Northparkes Report **2017**

Value Northparkes



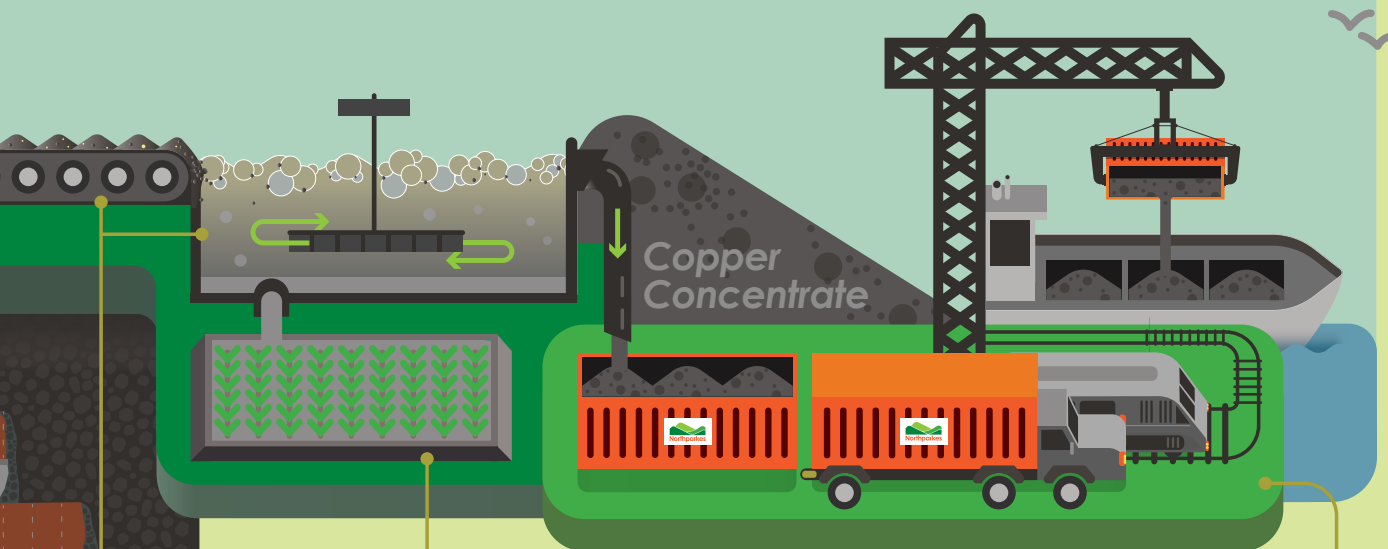
arkes Chain

2017 we produced
0.46 million tonnes
from our underground mines

and we processed
6.51 million tonnes
of ore through our ore processing
plant – a new all-time record
for Northparkes.



Our 2017 metal
recovery results
were 87.7 per cent
copper and
75.3 per cent gold.



5

Ore processing

In order to recover copper and gold from the ore, it is processed through several stages including grinding, flotation, concentrate thickening and finally filtration.

6



Tailings management

Moisture from waste materials is extracted and recycled in our ore processing plant. Tailings are then transferred to our Tailings Storage Facilities, creating a dry surface. To reduce dust, we are growing crops on the surface of the facilities.

4

Sub Level Cave

We began production from our E26 Sub Level Cave in 2016. Sub Level Caving is a mining method during which slim blocks of ore are released by successively blasting and undermining small panels.

7



Transport and logistics

The concentrate is transported to port by road and rail in shipping containers. These containers are then tipped directly into the ship using a specially designed crane attachment called a rotainer. The concentrate is not removed from the containers until it is loaded into the ship ready for its final journey to our customers.

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Aboutus

Northparkes is owned and operated by China Molybdenum Co., Ltd (CMOC) in a Joint Venture comprising CMOC (80%) and the Sumitomo Groups (20%).

All photo captions in this report are left to right.

Our purpose

We produce the vital components of our modern quality of life: the miracle of copper, gold and grains. They are the metal building blocks of electronics, infection-fighting surfaces and the foundation of our food chain.



Our story

Since 1993 Northparkes has been celebrated for our high-quality copper deposits, low cost operations and loyal, committed people.

Working at Northparkes is enjoyable: inspirational leadership matters and diversity is celebrated. We are proud to be a miner and a farmer, a good Parkes neighbour and valued contributor to NSW's Central West.

Zero Harm Operations describes our approach.

We are innovative and resilient, we embrace technology and new ways of working. We have decades of excellent mineral deposits and an entire mineral field to continue to explore.

We will discover the copper and gold deposits to take us even further into the future. We are setting up future generations of Northparkes miners for a century of mining together.

Our values

Zero harm

Zero Harm is our approach to every aspect of our operations. We care for our people, our environment and the community in which we live and work.

One team

We proudly work together towards our shared purpose.

Life balance

We realise the potential in everyone, support their wellbeing and enjoy what we do.

Improvement

We will be better tomorrow than we are today.

From our CEO

Steele Li

CMOC Executive Chairman and CEO



During 2017, CMOC-Northparkes Mines (Northparkes) achieved two new production records in both the underground mine and the ore processing plant. We are appreciative of everyone at Northparkes for these outstanding achievements.

These achievements will ensure the longevity of Northparkes and assist with its vision of 'A century of mining together'.

Zero Harm Operations is our first and foremost priority at Northparkes, ensuring the safety of all employees and the excellent standards and reputation we have with our community and the environment. As shown throughout this report, Northparkes is constantly striving for sustainability and improvement, both of which are important to CMOC.

In 2017, Northparkes reached 134 consecutive days injury free. It is evident that Northparkes will continue to maintain its focus on Zero Harm Operations and endeavour to improve upon what it achieved in 2017.

After the successful acquisitions of our niobium and phosphate business in Brazil and copper and cobalt business in the Democratic Republic of the Congo, CMOC has become a leading specialty metal producer and one of the largest producers of molybdenum, tungsten, cobalt and niobium across the globe, as well as a low-cost medium-sized copper miner.

CMOC is now the largest listed company in China's non-ferrous metals

sector by market-cap. Our ambition is to become a respected international resources company.

CMOC's operations are spread across four continents and our competitiveness in all sectors keeps on increasing.

As we look to the future, we will continue to uphold the values of sustainable development, keep working hard towards a common development based on responsibility, technology, our team and fully assume our social responsibilities.

We are excited to see what the future holds for our business as we strive to develop and grow. Northparkes will continue to play a pivotal role in ensuring our success into the future.



From our Managing Director

Jim Fowler
Northparkes Mines
Managing Director



Welcome to the 2017 Northparkes Report. I am delighted to share and celebrate our achievements and milestones reached throughout the year.

2017 was a year of change. We focused on right sizing our business and making sustainable changes to secure our future, allowing us to advance towards achieving our vision of a century of mining together.

We focused on re-establishing our credibility by delivering on our operating plan while getting back to basics. As a result, we established new production records in both the Mining Operations and Ore Processing departments.

We produced 6.46 million tonnes of ore from our underground mine and we processed 6.51 million tonnes of ore through our ore processing plant. This is an outstanding achievement and something that we are exceptionally proud of. Each and every employee across all departments played an integral role in achieving these results.

As a team, we continued to strive for Zero Harm Operations, achieving 134 consecutive days injury free. In 2018, we will continue to maintain our focus on Zero Harm Operations and aspire to improve upon this result.

Zero Harm Operations doesn't stop with our people, it extends to the community in which we live and work. I am pleased to say that we continued to support our local community throughout 2017.

Our employees volunteered at St Vincent De Paul, the Annual Parkes Agricultural Show, various sporting

competitions, the Trundle Bush Tucker Day and the White Ribbon March in Forbes.

In 2017, we set ourselves a goal of reducing our operating costs by six to eight million dollars. The whole Northparkes team worked extremely hard to scrutinise their departmental costs and eliminate expenditure where possible, allowing us to save 7.6 million dollars.

We gained government approval for the Single Flotation project and advanced our understanding of the Expansion project and E26L1N, both of which are important to our future. These projects will assist with the longevity of Northparkes, while we work towards our vision of a century of mining together.

At the nationally-recognised Victorian Mine Rescue Competition, the Northparkes Emergency Response Team came in second place – taking out first place in firefighting, theory and first aid. More information about the competition can be found throughout this report.

Thank you for your interest in Northparkes. To find out more about our progress and achievements, please keep reading. I hope you enjoy reading our story as much as we enjoyed making it.



A person wearing an orange high-visibility shirt and blue pants is standing in a field. The image is partially covered by a green overlay and a white diagonal line. The word "ze" is written in large white letters at the bottom right.

ze



ero**harm**

Our Zero Harm approach

Our Zero Harm performance

We strive to work towards achieving Zero Harm Operations in every aspect of our operations by looking out for each other during every task, every time. Zero Harm is engrained in each and every one of us and is an essential part of our culture.

In 2017 we reached 134 days injury free. We had seven recordable injuries that occurred outside of that period. The injuries were medically treated and each person has returned to normal duties at work.

Demonstration of innovation and leadership in Zero Harm are two key areas we believe in recognising and rewarding at Northparkes. Each quarter, we give our employees the chance to nominate one of their peers for their Zero Harm achievements.

In 2017 the following employees were recognised for their achievements relating to Zero Harm:

Zero Harm leadership award winners:

Linda Snyman and Wayne Tucker.

Zero Harm innovation award winners:

Andy Brownlow, Paul Brown, Wayne Tucker, Brent Lovett and Michelle Row.

Linda Snyman was awarded a Zero Harm Leadership award for introducing the Elf-on-a-Shelf tradition to the workplace, to encourage team members to look up and check for hazards in their work environment.

2017 injuries:

Knee	1
Foot	1
Leg	2
Hand	1
Back	1
Ankle	1



Remembering our colleagues



In November we stopped to remember our colleagues who lost their lives in the tragic air blast on 24 November 1999. Our colleagues were **Ross Bodkin 41, Michael House 33, Colin Lloyd Jones 41 and Stuart Osman 47.**

Each year we gather at the memorial at the entrance to our underground mine to remember these men. We also stop to remember Steve Shorrock who died after a rock fall in August 1996 while working on the E26 Lift 1 Development.

Rob Cunningham, Manager – Mining Operations, who was at work on the day of the air blast, shared his memories of his friends and the event.

We will continue to remember these men every year and share what we learnt from that day to help prevent it from ever happening again.



Our community and environment

We are committed to the sustainable production of copper and gold in a manner that protects the value of the natural and social environments in which we operate.

In meeting this commitment, Northparkes:

- Operates in compliance with an Environmental Management System documented and implemented in accordance with AS/NZS ISO 14001:2015
- Operates in compliance with applicable legislation, regulations and codes of practice
- Commits to pollution prevention and waste minimisation
- Recognises that operations will have a localised, short-term impact on the environment and aims to reduce this impact wherever practicable
- Regularly audits and monitors environmental performance and applies the principles of hazard identification, risk assessment and control as a basis for improvement and to demonstrate compliance
- Aims to continually improve environmental management practices and performance
- Works with the community with the aim of achieving mutually acceptable outcomes from all areas of operation
- Conducts mining in a manner that ensures that rehabilitation to the agreed end land use can be achieved at the earliest practical time
- Ensures that all employees, including

contractors, are aware of their role in complying with company environmental responsibilities, policies and commitments

- Reports publicly on its environmental performance

Air Quality

We regularly sample air quality at key locations on and adjacent to our mine site. The program is designed to determine the effectiveness of control measures and ensure we are compliant with consent and licence conditions. The program includes a combination of real-time BAMs (Beta Attenuation Monitoring for PM10), high volume air samplers (TSP) and directional and depositional dust gauges.

There were no reportable dust exceedances recorded during the year.

Noise

Noise monitoring is conducted quarterly by an external specialist who monitors and analyses noise data at four of our closest neighbouring properties. Noise levels must comply with the requirements set out in our Project Approval, and associated standards and policies. Noise monitoring incorporates a combination of real-time (unattended) monitoring and attended noise surveys. There were no exceedances reported in 2017.

Water

65.9 per cent of the water used onsite was recycled in 2017. Its main use was to process crushed ore into copper concentrate.

We manage our water use through an internal infrastructure system aiming to:

- Ensure a reliable and sustainable long-term supply of water to site

- Minimise fresh water use by recycling water from mining and processing activities
- Monitor surface and groundwater resources to assess the impact of our operations

Environmental Incidents

During the year there was one environmental incident reportable to government agencies.

4 April 2017

Approximately 1ML of water overflowed from the eastern surge dam due to a miscommunication between personnel from night and day shift regarding the monitoring of water levels during pumping.

Water sampling of the surge dam identified that the risk to the environment from the incident was negligible and the event was classified by the Environment Protection Agency as a notification, rather than an incident. Northparkes isolated and decommissioned the surge dam valve immediately. This facility is now managed by one department to improve the controls implemented and prevent future incidents from occurring.



Consultation

In addition to supporting community initiatives, we have several approaches to formally engage, monitor and report to our community stakeholders:

Community Consultative Committee (CCC)

The committee meets twice a year to update members on business operations and receive community feedback. The committee is made up of mine management and community representatives from Parkes and Forbes. The two meetings were held in March and December.



Wiradjuri Executive Committee (WEC)

The WEC meets quarterly to identify opportunities and develop projects which support Wiradjuri people in the community. The WEC is made up of two members from the Wiradjuri Council of Elders, two people from Peak Hill Local Aboriginal Land Council and two senior Northparkes employees. The committee made good progress on targeted work plans. For example, we procured our promotional products from an Indigenous supplier for the first time.

Neighbours meetings

Northparkes hosts formal onsite meetings open to neighbours twice a year, and meets with many neighbours individually throughout the year.

Source community newsletter

Published twice a year and distributed online and via local newspapers.

Online

www.northparkes.com
www.facebook.com/northparkes
www.linkedin.com/cmoc-northparkes



Our farming operations

At Northparkes, we are proud to be a miner and a farmer.

For over 20 years we have been working on techniques to improve farming in a sustainable and appropriate manner with consideration given to our operations and our neighbours.

In 2017 we sowed 3,600 ha of crops across our Parkes and Forbes farming operations, including wheat, barley, canola, faba beans, chickpeas, field peas and lentils. Unfortunately due to a record number of frosts and next to no rainfall in winter, yield potentials decreased dramatically.

Given those challenges, we still managed near average yields in our cereal and pulse crops due to a couple of late rainfall events. Canola yields was well below average, being the most affected by the frost.

We produced enough wheat for five million loaves of bread, enough maize silage for 4.5 million litres of milk, enough canola for 366,000 litres of canola oil and enough chickpeas for 375 tonnes of hummus.

One of the many benefits of being a miner and a farmer is the opportunity to share what we learn from our farming operations with others. We hosted various trial sites and field days throughout 2017, demonstrating our continued support of the grains industry. During the year, we have over 100 people, including combined researchers, industry representatives and growers visiting our farms.

In 2017 our farming operations continued to focus on innovative weed management, with the farm utilising numerous techniques to help manage weed populations.



White Ribbon

On Friday 24 November, over 30 Northparkes employees and numerous community members joined forces to help raise awareness and support White Ribbon, by participating in the White Ribbon Day march in Forbes.

The march concluded in Victoria Park, where a number of Northparkes employees had volunteered to set up before the events. The crowd was led by Acting Inspector, Scott McWhirter, from Lachlan Local Area Command, in taking the White Ribbon Day oath, to stand up, speak out and act to prevent men's violence against women.

In November 2016, Northparkes became the first mine in Australia to become a White Ribbon accredited workplace, joining a group of organisations committed to preventing and responding to violence against women.

Michelle Wetherell, Superintendent – Human Resources, Training and Organisational Development, said "Northparkes has been an active supporter of the White Ribbon Campaign for a number of years now. It's great to see our employees continuing to support and contribute to this campaign."

In addition to supporting the White Ribbon Day march, Northparkes sponsored the White Ribbon Domestic Violence Rugby League Cup match between Forbes High School and Parkes High School. The event aims to raise awareness and educate the younger generation about domestic violence.

Thomas Trott, Superintendent Ore Processing Production, said, "Statistics show that domestic violence is far too common within our local towns. We will

continue to support initiatives that raise awareness and improve the wellbeing of the community in which we live and work, so the next generation doesn't live with the same statistics."

As part of our commitment to our White Ribbon Accreditation, we continue to educate our employees through training awareness sessions.

In addition to providing training, we have continued to support school-based training programs. In 2017, we supported Forbes High School's Love Bites Program. Love Bites educates students on Domestic and Family Violence.



Our guests

Throughout the year, Northparkes was delighted to welcome a number of visiting government officials, community groups and school students to site.

In April, we hosted Senator the Hon. Matthew Canavan, Minister for Resources and Northern Australia, and the Hon. Michael McCormack MP, then Member for Riverina and Minister for Small Business.

In the same week, we had the honour of hosting the Hon. Donald Harwin, Minister for Resources and Energy, Minister for the Arts and Vice

President of the Executive Council, with Northparkes being the first mine the minister has visited since taking on the resources portfolio in early 2017.

We also welcomed Phil Donato MP, Member for Orange to Northparkes.

Our guests toured the end-to-end production process from the E48 underground mine to our ore processing facility. They walked through the concentrator, viewed the visio-froth flotation process and saw the final copper concentrate product.

Northparkes is the world's most automated underground block-cave mine. The automated loaders in the E48 underground mine are remotely

controlled from a surface control room, located some 500 metres above the underground operations.

Mr McCormack commented on what an outstanding opportunity it was to see a state-of-the-art, world class mine in operation.

"I am impressed at how Northparkes combines both mining and farming – showcasing that the two sectors can co-exist," Mr McCormack said.

Jim Fowler, Managing Director, Northparkes, said, "We are proud of our history and achievements and it's a pleasure and indeed a privilege to host visits such as this."





"I am impressed at how Northparkes combines both mining and farming – showcasing that the two sectors can co-exist."

Michael McCormack, Member for Riverina and Minister for Small Business

"We are proud of our history and achievements and it's a pleasure and indeed a privilege to host visits such as this."

Jim Fowler, Managing Director

Far Left

Michael McCormack MP, then Member for Riverina and Minister for Small Business and Senator the Hon. Matthew Canavan.

Middle

Samuel Tedeschi, the Hon. Donald Harwin, Minister for Resources and Energy, Minister for the Arts and Vice President of the Executive Council, Jim Fowler, Northparkes Managing Director.

Left

Phil Donato MP Member for Orange and Jeremie Thomson, Underground Shift Supervisor.

Victorian Mines Rescue Competition

In October we sent a team to compete in the Victorian Mine Rescue Competition, a well-respected national competition which has been held for 24 years. The competition attracts around 10 teams from mines across Australia, to engage in simulated mine rescue and emergency response situations.

The 2017 competition took place in Yallourn, at Energy Australia's Power Station. Across three days, teams competed in a number of challenges demonstrating theoretical and practical mine rescue skills, including First Aid, Fire Fighting, Rope Rescue, Search & Rescue and use of Breathing Apparatus.

The Northparkes Emergency Response Team came second overall, taking out first place in firefighting, theory and first aid.

Jim Fowler, Managing Director, Northparkes, said, "We are enormously proud of our competition team. Our consistent success at this event reflects the team's hard work to stay at the leading edge of emergency response practices."

The competition provides an invaluable opportunity for teams to complete tasks under pressure and receive in-depth feedback on their performance in comparison to industry standards. Over the years it has become a platform for teams to share their experience and knowledge.

Northparkes currently has 24 active Emergency Response Team (ERT)

members who train year-round to ensure they are ready to assist in case of an emergency. The 2017 competition team included ERT members Jack Medlyn (Captain), Wayne Sargent, Ben Ryan, Linda Snyman, Jade Walker, Jamie Pope and Matt Flynn.

Competition team Captain Jack Medlyn, said, "I am extremely impressed with the way the team performed throughout the competition. Second place is a great result and a direct reflection of the excellent standard our team is trained to here at Northparkes."

"We are enormously proud of our competition team. Our consistent success at this competition reflects the team's hard work to stay at the leading edge of emergency response practices."

Jim Fowler, Managing Director



Northparkes Mines
A century of mining together

Below

Jack Medlyn, Wayne Sargent, Ben Ryan, Linda Snyman, Jade Walker, Jamie Pope, Matt Flynn and Mick Carty.





Onetead



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Production

In 2017 our underground mine and our ore processing plant achieved a new production record.

We produced 6.46 million tonnes of ore from our underground mine and we processed 6.51 million tonnes of ore through our ore processing plant.

It was a dynamic year, full of change and challenge. As a result of the dedication and hard work of our employees, we were able to deliver our plan and more in both our underground mines and our ore processing plant.

Rob Cunningham, Manager – Mining Operations, said, “The hard work and dedication of everyone at Northparkes saw a number of achievements obtained throughout the year, including below plan production costs, hoist efficiency optimisation and improvements in secondary crusher durability and consistency of product.”

“In the first half of the year, we encountered a number of complications with our underground equipment and surface infrastructure, causing delays and the need to develop multi-skilled underground crews in order to sustain production,” said Rob.

In the second half of the year, the mining department was fully resourced and up-skilled, enabling them to implement ‘hot seat’ changeovers. These changeovers allowed available equipment to be used continuously and ensured the performance of the E26 Sub Level Cave (SLC).

Further improvements in the underground mining space included the addition of a fourth level to the SLC, work to develop the undercut

and ore pass as a storage area for mined materials allowing production to continue in the event of surface operation delays.

Roslyn Dalton, Manager – Ore Processing, said, “2017 was a record-breaking year across the value chain. We took on new challenges with the secondary crusher and surface belts, taking this over from the Mining Operations department, we worked closely with the Asset Management department to increase reliability and we worked to improve the product sizing out of the secondary crusher.”

“We worked simultaneously to deliver the plan copper and gold recovery figures which fall generally with increased throughput. It was only through hard work and sheer determination from all involved that we delivered the changes needed to meet our recovery targets,” Ros said.

Our Asset Management department completed a number of scheduled shutdowns throughout the year, in both our ore processing plant and underground mines. Hubert Lehman, Manager – Asset Management, said, “In order to properly maintain our assets, we stop production on a scheduled basis to perform planned repairs, upgrades and maintenance. These scheduled shutdowns ensure our mine and mill will continue to operate safely and efficiently for years to come.”

In 2017 Northparkes transported 134,114 tonnes of copper concentrate by rail and sea to our customers overseas in Japan and China. Jacques Labuschagne – Finance Director, said, “This figure exceeded the planned shipment volume by three per cent.”



Tailings Storage Facilities

In 2017, we commenced an exciting new tailings project. Our Tailings Storage Facility 1 (TSF1) is nearing the end of its lifespan, enabling us to implement a number of innovative closure methods never before used onsite.

The first innovative closure method involved using tailings as a stabiliser to support the northern and eastern walls of TSF1. This method was a cost-effective solution, reducing the time and labour required, and the need to purchase and transport alternative materials.

The second innovative method involved the construction of a central tailings deposition point to facilitate the construction of a dome landform. The purpose of the dome final landform is to provide a variable final landform feature for the TSF.

Further improvements have been made to increase the capacity of tailings storage onsite through joining two existing facilities. Additional storage has been made available by creating an infill between TSF1 and TSF2 and by lifting the outer bund in Stage 2 of the Escourt TSF upgrade. This work will increase Escourt TSF's storage capacity from 12.5Mt to 20Mt and is scheduled for completion in 2018.



Our people

We strive to support the learning and development of our people, providing opportunities to undertake formal and informal training to enhance their skills and knowledge. In 2017, Northparkes employees received around 11,128 hours of training and 3 of our apprentices completed their courses.

Our employee pipeline includes eleven apprentices, four graduates, one trainee and sixteen scholarship holders. Kelsie Thompson completed an Electrical Apprenticeship, Thomas Smith completed a Light Vehicle Mechanical Apprenticeship and Sam Denison completed a Mechanical Apprenticeship.

After successfully completing his Light Vehicle Apprenticeship, Thomas Smith was offered a full-time position as a Light Vehicle Mechanic. We are very impressed by their contributions to Northparkes and we wish them all the best with their future endeavours.

Indigenous Scholarship holders Michael Thomas and Amelia Sarah graduated from university late last year. Michael graduated from the University of Armidale with a Bachelor of Environmental Science and Amelia graduated from the University of Newcastle with a Bachelor of Electrical Engineering.

Travis Carte, Graduate Mechanical Engineer and Ellie Hawkins, Graduate Mining Engineer successfully graduated from their programs in 2017. Travis accepted a role as Project Engineer within the Asset Management

department and Ellie accepted a role as Production Engineer in the Mining Operations department.

During 2017 we hosted seven university undergraduate students. We offer a program that enables students to complete their mandatory hours of industry training.

Stacey Kelly, Manager – People, Safety and Environment said, "The program has been beneficial to everyone involved. As part of their program, students are given the opportunity to get involved with events in the local community of Parkes.

A key project the students are given during their time at Northparkes is to design and build the Northparkes float for the Parkes Elvis Festival's Northparkes sponsored street parade."

The Parkes Elvis Festival is a key event in the calendar year for Parkes, attracting record-breaking crowds of 25,000 people.

After successfully completing their programs, the students are equipped with new-found knowledge and skills to take them into the industry they intend to join.



Ellerey Harris

Ellerey Harris, one of our Indigenous Scholarship holders, secured a full-time role as a case worker at Rivmed in the Intensive Family Based Services section in Wagga Wagga. Ellerey is still completing his degree, however due to this job opportunity he is cutting down his subjects to allow him to continue studying while he works.

Ellerey said, "The scholarship and work placements I completed allowed me to get the job. Having real-life examples from my placements made such a big difference."

Department	2017 Gender Diversity %	
	Male	Female
Site Management	66	34
Financial Management	66	34
People, Safety & Environment	57	43
Ore Processing	89	11
Mining Operations	92	8
Asset Management	97	3
Life of Mine Studies & Exploration	67	33
TOTAL	86	14

Northparkes Mines
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Above

Jeromie Thomson, Phil Donato MP, the Hon. Adam Searle MLC and Luke Jones.

Right

Roslyn Dalton



NSW Mining Industry and Suppliers Awards

In April we had the honour of attending the NSW Mining Industry and Suppliers Awards at NSW Parliament House in Sydney. We co-sponsored the event together with Evolution-Cowal and Newcrest-Cadia, providing an opportunity to showcase the Central West.

We had finalists in two award categories: Northparkes Mines – Mining Operation of the Year and Roslyn Dalton – Exceptional Women in Mining. We are incredibly pleased of these achievements.

Scholarship Programs

Sumitomo Metal Mining Oceania (SMMO) Scholarships

Yasmin Potts from Parkes High School (Year 12) and Cameron Smith from Red Bend Catholic College (Year 11) were each awarded a 2017 SMMO Scholarship. The aim of the Scholarship Program, which is supported and administered by Northparkes, is to promote and encourage careers in the mining industry.

Yasmin was chosen as a representative for both National and International Youth Science Forums, while Cameron is a member of Red Bend Catholic College's School Representative Council and volunteers with various organisations.

At the commencement of January 2018, Cameron completed a week of work placement at Northparkes. During his time on site, he worked with working with the People, Safety and Environment department and the Life of Mine and Exploration department.

"The scholarship allows students with an interest in mining to experience it first-hand. It also helps students to cover the costs of their studies, whilst encouraging them to keep their grades up and generate a strong work ethic," Cameron said.

SMMO scholarship recipients receive \$500 for successful completion of Year 11 and \$1,000 for successful completion of Year 12. \$2,000 is also granted to those scholarship students who enter and successfully complete their first year at university in a mining related course.



Above
Yasmin Potts.

"The scholarship allows students with an interest in mining to experience it first-hand. It also helps students to cover the costs of their studies, whilst encouraging them to keep their grades up and generate a strong work ethic."

Cameron Smith, SMMO
Scholarship holder

Below

Diane and David Potts, Mr Morimoto SMMO, Cameron and Bill Smith.





Northparkes Indigenous Scholarships

The Northparkes Indigenous Scholarships aim to encourage and support Indigenous students who are interested in a technical career in the mining industry and those who wish to pursue non-technical degrees. The scholarships are offered to Indigenous students aged 30 or under who have obtained entry into a university degree.

Scholarship holders undertaking a technical degree such as metallurgy, geoscience, mining engineering, electrical engineering or mechanical engineering receive \$10,000 per year. Non-technical degrees such as nursing, occupational health and safety, environmental science, community relations and human resources receive \$5,000 per year.

In addition to financial support, Northparkes offers support throughout work placements both onsite and throughout Australia. We have had scholarship holders travelling as far as Cape York and Darwin to complete placements, as well as throughout regional NSW.

Courtney Straney of Condobolin is our Indigenous Scholarship holder for 2017. Courtney is studying a Bachelor of Law and Commerce at the University of Sydney. Courtney joins a cohort of 10 Northparkes Indigenous Scholarship holders.

Left

Stacey Kelly, Courtney Straney and Jim Fowler.

Jamie Pope

In 2017 Jamie Pope, Safety Advisor Tailings of the Asset Management department, celebrated 20 years of service with the Northparkes Emergency Response Team (ERT) in 2017.

Jamie began his career at Northparkes as an Operator in the Ore Processing department in May 1995. In late 1996, he joined the ERT as a rookie, officially becoming a part of the team in 1997.

Jamie's drive to join the ERT comes from a long history of involvement in first aid and first responding from his previous work in oil refineries.

Throughout his ERT career, Jamie has competed in and facilitated numerous competitions including the prestigious Victorian Mine Rescue Competition, which he competed in 16 times over the course of his ERT career.

Matt Flynn, Emergency Management and Security Coordinator, said, "Jamie is well respected within the

mines rescue community, not only at Northparkes but industry-wide. During his 20 years of service with the ERT, Jamie has always displayed a high level of professionalism and proven himself to be an outstanding mentor to other members of the team."

Congratulations Jamie, we are all incredibly impressed with this achievement.

Below

Jamie Pope and Matt Flynn.



Below

Kelsie Thompson.

Lester Plummer Apprentice of the Year Award

The Lester Plummer Apprentice of the Year Award was created in honour of our friend and colleague, who passed away in 2015. Lester always displayed a keen interest in our apprentices.

The inaugural Lester Plummer Apprentice of the Year Award winner for 2017 was Kelsie Thompson, who graduated from her Electrical Apprenticeship program last year.

This was the second year we have presented this award. Alec Edwards was the first recipient.

Stacey Kelly, Manager – People, Safety and Environment, said, "Kelsie received a lot of positive feedback provided by her fellow employees who she had worked closely with over the past year. She had a strong desire to complete additional study during the final year of her apprenticeship and always demonstrated her willingness to support Zero Harm initiatives in her own time."





Improve

A photograph of three men in orange high-visibility shirts standing in a control room. The room has large windows and computer monitors in the background. A large green diagonal overlay covers the right side of the image. The word 'ement' is written in large, bold, orange letters across the bottom, with the first letter 'e' in white.

e^{*ment*}

Improvement

Improving our business

At Northparkes we strive to make improvements to our business, no matter how small. These improvements are shared via meetings and our fortnightly newsletter. Sharing these improvements allows our employees to apply these learnings to their every day tasks.

In 2017 we implemented a number of improvements focusing on our work environments and streamlining and simplifying tasks. We cut down on the number of meetings that were being held which allowed employees to regain time to focus on important tasks.

For example, Linda Snyman, Senior Operations Geotechnical Engineer, was awarded a Zero Harm Leadership award for introducing the Elf-on-a-Shelf tradition to the workplace. The concept behind this improvement was to encourage team members to look up and check for hazards in their work environment.

Our Sub Level Cave

The E26 Sub Level Cave (SLC) mine began production in 2016. Sub level caving is a mining method in which slim blocks of ore are caused to cave successively undermining small panels. This method allows us to access a remnant wedge of ore which was not available when we developed the E26 block cave mine.

In the first six months of 2017, the SLC faced challenges relating to equipment availability and people resources. At the halfway point of 2017, we were 25 per cent below plan for the year. Throughout the second half of the year, significant improvements were demonstrated in availability and utilisation, enabling us to finish only seven per cent below plan.

A sustainable improvement was implemented in truck utilisation and resourcing. SLC production was experiencing issues as a result of resourcing and the under-utilisation of available truck time. A review was conducted and short-term controls were implemented. An important action was implemented to ensure our crews had the required number of operators per shift. Additional operators were added to crews to fill vacancies. In addition to ensuring crews had the required amount of operators, the Business Improvement team was engaged to focus on the utilisation of available trucks and hot seat changeovers.

For instance, when operators are taking crib breaks, another operator will take over to ensure the truck is being utilised at all available times. This model depends on having enough people on crew. Combining these two improvements saw major improvements in production results.



Life of mine studies and exploration

In 2017, we continued to actively explore the full extent of our of exploration lease. We continued to expand our knowledge and understanding of the regional geology through research collaboration with the University of Tasmania's Centre for Ore Deposits and Earth Sciences.

In addition to the 20 kilometres of new drilling that was completed in 2017, we also re-assayed nearly 11,000 samples from historic drilling dating back to the 1970s. Utilising modern analytical methods allows us to extract additional information from the samples kept in storage to help with finding our next ore body.

The Life of Mine and Exploration department continues to focus on working on extending our mine life to enable us to achieve our vision of a century of mining together through further studies and exploration.



Central West Met Fest

At Northparkes, we are always looking for opportunities to collaborate with other professionals in our industry.

In November, we hosted the inaugural AusIMM's Central West Met Fest. The Met Fest brings together the metallurgical community in the region to share knowledge and learnings with one another.

The day kicked off with a tour of the Ore Processing Plant, with over 23 metallurgists in attendance. This was followed by an afternoon of operations-based presentations and discussion forums.





Life



balance

Volunteer Leave Program

Our nationally recognised Volunteer Leave Program continues to play an important role in our community engagement model. The program focuses on the contribution employees can make to their local community to complement our monetary contributions.

The results have shown that volunteering has lasting benefits for both Northparkes and the Central West.

In 2017, we continued supporting our local community through our Volunteer Leave Program. The program was inceptioned in 2013, with the principle that the best contribution to our community could be made by our people.

Throughout 2017 our employees volunteered their time towards 15 projects across the Central West, including:

- Sorting clothes at St Vincent De Paul
- First aid training at Parkes High School
- Swimming laps at the Life Education Relay
- Marshalling at the Parkes Rotary Fun Run
- Cooking the BBQ at the Parkes and Peak Hill Charity Golf Days
- Refereeing at the NSW PSSA AFL Championships
- Setting up and cooking the BBQ at the NSW Masters Hockey Championships

- Preparing the Parkes Showgrounds for the Annual Show
- Operating the tasting site at the Trundle Bush Tucker Day
- Assisting teachers at Forbes High School with the Lovebites Program
- Setting up the White Ribbon community march in Forbes

In-kind

- 547 hours of volunteer service to the Central West
- Laptops – donated by Financial Management to the Parkes Rotary Club
- Equipment pool – Northparkes has a range of equipment available for public use, including 3 x 3 marquees, a blow-up big screen and eskies used by schools and community and sporting groups



Community Investment Program



In 2017, we announced the successful recipients of our Community Investment Program. The successful recipients were from across Parkes, Forbes, Peak Hill, Tullamore, Trundle and Tottenham. We hold two rounds per year, with \$40,000 donated each round at the discretion of an independent committee.

Some of the successful 2017 recipients included:

- Parkes Aero Club
- Little Wiradjuri Dance Group
- Peak Hill Tennis & Swimming Clubs
- Parkes District Hospital
- Parkes Prostate Cancer Support Group
- Parkes Shire Food Service
- Forbes Netball Association
- Forbes Eisteddfod
- Trundle Pastoral and Agricultural Society
- Kalari-Lachlan River Arts Festival Youth Project

Jim Fowler, Managing Director, Northparkes, said, "We are proud supporters of the community in which we live and work. By funding initiatives that support culture, sport, health, music and more, we know the Community Investment Program will benefit many people in our region. We hope to see a continued strong number of applicants apply throughout this program for years to come."

In late 2016, Northparkes employees created a cookbook incorporating their favourite recipes. A total of \$5,100 was raised for the Parkes and Forbes communities affected by weather events in 2016. The funds were donated to Adavale Lane Community Hall and the Forbes Wiradjuri Dreaming Centre during a ceremony in mid 2017.



International Women's Day

International Women's Day is a chance for us to recognise and celebrate the important and impressive achievements of not only our female employees, but of women across the Central West.

In March, employees and local community members gathered in Cooke Park for coffee, morning tea and a chat to recognise and celebrate International Women's Day.

Guest speaker, Karen Creith of Parkes Furniture One, shared her story on how she went from furniture retailer to magazine columnist and author in just a few short years.

The event was a great success, raising \$200 for women's health services provided by Ochre Health.



Above

Linda Snyman and Haylee Pottage.

Below

Michelle Wetherell and Gabe Albert.



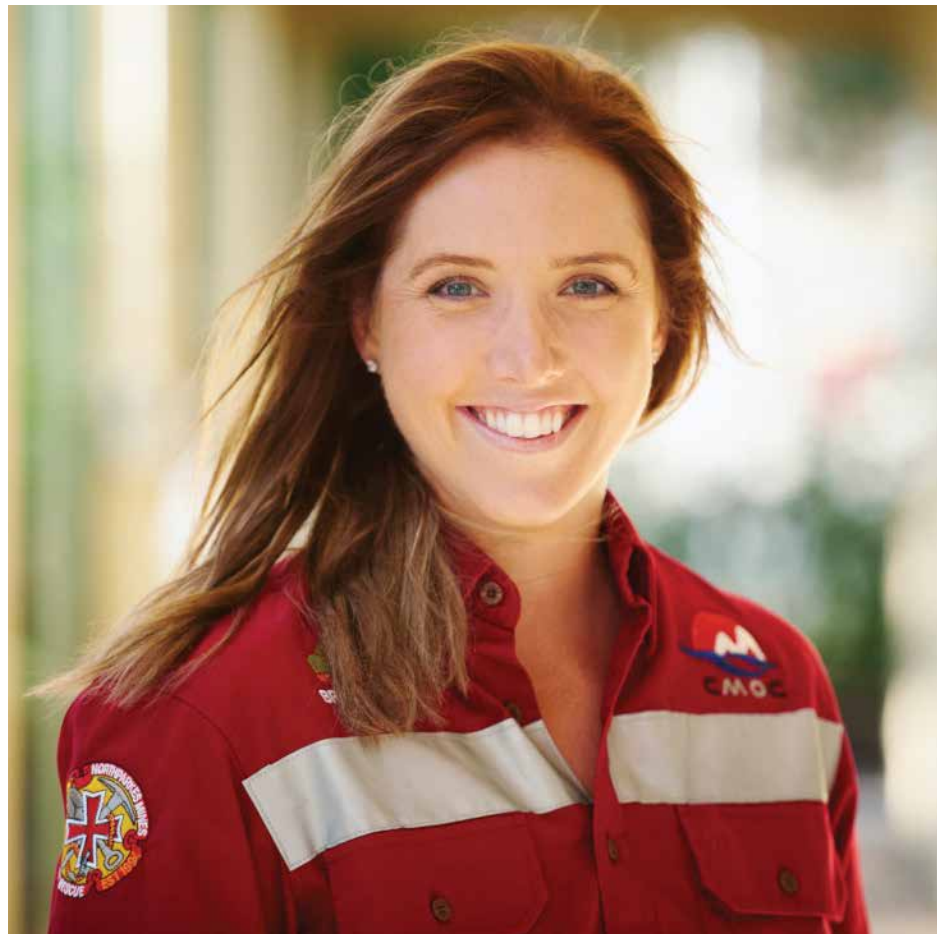
Working with CMOC

Brooke Lees, Talent and Development Advisor, spent four months in CMOC Group HQ Phoenix USA Office as a Communications Specialist.

"My secondment commenced during the start-up of CMOC. The corporate office went from 15 to approximately 80 people during the time I was in the office. I was responsible for assisting with the on-boarding of these employees."

"The Communications Specialist role focused on setting up social media, the CMOC website, communication templates and the roll-out of communication plans for the CMOC Group HQ Phoenix USA Office and CMOC Africa operation. During my time I learnt a lot about our international operations," she said.

Brooke returned to Northparkes with the benefit of her newfound experience and knowledge of CMOC. "I feel very lucky to have had this opportunity in my career. I am now able to leverage the relationships I developed in CMOC Group HQ Phoenix USA Office and at Northparkes being back in my role as the Talent and Development Advisor."



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Brooke Lees, Talent and Development Advisor

Sports Grants

In conjunction with the Parkes Sports Council, each year we offer two rounds of funding available for sporting groups in Parkes.

Chase Dingle, Superintendent Community, Environment and Farms said "Northparkes recognises how vital sport is to our local community; supporting the Parkes Sports Council's Grants Program is one way we can contribute to some of the teams and clubs that do a great job helping to keep Parkes health and happy."

In total \$30,000 was awarded to the following sporting groups in 2017:

- Parkes Gun Club
- Parkes Railway Bowling Club
- Parkes Rugby Union Club
- Parkes Australian Rules Football Club
- Parkes Hockey Inc
- Parkes PCYC
- Peak Hill Bowling Club
- Peak Hill Golf Club
- Parkes College for Seniors



Life Education

We entered into our sixth year of partnership with Life Education, supporting its vital, not for profit health and drug education.

This benefits 25 local primary schools across the Parkes and Forbes communities by empowering the region's youth to make informed safer and healthier choices, through positive preventative education.

Ken Keith, Mayor of Parkes Shire Council and board member of Life Education NSW, commended our employees for their participation in the Life Education Relay. Our employees joined forces with Parkes Shire Council to raise awareness and support for Life Education and Healthy Harold.

Kellie Sloane, CEO of Life Education NSW, said, "With the support from Northparkes, children in the region can lead safe and healthy lives, now and into the future. We want to work with every school in the region to build on the positive messages kids are being taught and give them the capability to deal with life's bigger issues when they are faced with them."



Left

Mayor Ken Keith OAM, Archi Rix, Kellie Sloane – CEO of Life Education, Madeline Blackstock and Ali Creith.

Our contribution

In 2017 Northparkes contributed \$79.1 million to the Central West through salaries, sponsorships, government dues and payments to local businesses. As at year end, we employed 313 people; during the year we paid salaries of \$28.2 million to Parkes residents and \$4.4 million to employees in Forbes.

Employees by town of residence	2017
Parkes	235
Forbes	33
Orange	7
Dubbo	4
Tichborne	3
Trundle	4
Bogan Gate	3
Other	24
TOTAL	313

Our contribution to Central West NSW	\$M
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Salaries and wages paid per town of residence	
Parkes	28.2
Forbes	4.4
Orange	0.8
Dubbo	0.6
Peak Hill	0.4
Other	3.9

Suppliers of goods and services	
Central West	37.4
Sponsorship and donations	0.3
Local government payments	
Parkes and Forbes	3.1
TOTAL	79.1

Zeroharm

Our journey towards Zero Harm Operations is a relentless focus across our entire sphere of operation: our people, our community, our environment and our equipment. We believe this approach is why we have been successful for over two decades, and sets us up for further decades to come. Our vision for our business is for *A century of mining together*.

Thank you for your interest in Northparkes Mines.

Northparkes Mines
A century of mining together



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