



Sunrise Dam is one of two Anglogold Ashanti operations in its Australasia region. Sunrise Dam, which is wholly-owned, is located 220km northeast of Kalgoorlie and 55km south of Laverton in Western Australia. Mining of the Crown Pillar at the base of the 490m deep pit was completed in early 2014. Underground mining, which is conducted by a contract mining company, is now the primary source of ore. Ore is treated via conventional gravity and a CIL processing plant which is owner-managed.

SUNRISE DAM

AUSTRALIA

HIGHLIGHTS

PLANT OPERATING AT 3.8MT

exceeding plan and design throughput

PLANS UNDERWAY

for incremented capital project to access significant potential of underground Vogue discovery

VIABILITY OF AN UNDERGROUND

crusher and conveyor system being assessed

IMPROVED SAFETY

performance

GAS PIPELINE TO MINE

completed ahead of schedule

ALL-IN SUSTAINING COSTS

of \$1,110/oz, down by 9%

As at 31 December 2015:

- **MINERAL RESOURCE** of 4.85Moz (inclusive)
- **ORE RESERVE** of 1.25Moz

OPERATIONAL PERFORMANCE

Production

Underground ore was the primary source of mill feed at Sunrise Dam in 2015 and underground ore mined at 2.7Mt, was 15% higher than in 2014. This ore was then blended with stockpiled intermediate grade ore (average 1.45g/t) to meet annual processing plant capacity, which was maintained at 3.8Mt in 2015, above planned levels and design throughput.

Gold production in 2015 was 46,000oz lower than in 2014, due primarily to lower mined grades. The lower grade ore was largely due to the nature and location of the zones mined, which were on the periphery of the main ore bodies and generally more variable than those mined in 2014.

The dominant source of ore in 2014 was the GQ ore body and the mine is now transitioning to the Vogue ore body, which will become the primary source of ore for several years to come. Access to the Vogue ore body will require considerable drilling, planning and development work to establish.

Costs

The decline in costs continued in 2015 with all-in sustaining costs down by 9% year on year and by 16% over the past two years. Improved efficiency and a focus on engineering reliability contributed to lower processing costs.

Growth and improvement

At Sunrise Dam, work is being carried out to assess the viability of an underground crusher and conveyor system for haulage via a new decline at the northern end of the operation. The

conveyor decline will also provide exploration drilling access to the northern parts of the ore body that have been difficult and costly to drill from surface due to the surface waste dumps and salt lake.

For further information on our activities relating to safety, employee wellness, health care, employee and labour relations, the environment, community relations and community development work, see the Australasia regional review in the Integrated Report 2015, available at www.aga-reports.com/15/ir/topics/ir/performance/context, and the Sustainable Development Report, available at www.aga-reports.com/15/sdr/home.



SUNRISE DAM – KEY STATISTICS

	Units	2015	2014	2013
Operational performance				
Cut-off grade ⁽²⁾	oz/t	0.032	0.038	0.060
	g/t	1.11	1.29	2.03
Recovered grade	oz/t	0.057	0.062	0.072
	g/t	1.97	2.13	2.46
Tonnes treated/milled	Mt	3.9	3.8	3.4
Gold production	000oz	216	262	276
Total cash costs	\$/oz produced	970	1,105	1,110
All-in sustaining costs	\$/oz sold	1,110	1,214	1,321
Capital expenditure	\$m	29	31	39
Productivity	oz/TEC	45.09	58.29	50.22
Safety				
No. of fatalities		0	0	0
All injury frequency rate (AIFR)	per million hours worked	11.59	12.54	11.19
People				
Total average no. of employees		400	374	457
– Permanent		90	93	107
– Contractors		310	281	350
Environment				
Water usage	ML	1,771	1,866	1,829
Water use efficiency	kL/t	0.46	0.49	0.53
Energy usage	PJ	1.97	2.29	2.07
Energy intensity per tonne treated	GJ/t	0.51	0.60	0.60
Greenhouse gas (GHG) emissions (CO ₂ e)	000t	116	135	122
GHG emissions intensity	t CO ₂ e/t	30	35	35
Cyanide usage	t	1,360	1,178	1,121
No. of reportable environmental incidents		0	0	0
Total rehabilitation liabilities	\$m	30	32	29

⁽¹⁾ For the purposes of this report, Surface Operations includes NWS, which is operated and managed as a separate cash-generating unit.

⁽²⁾ Based on the Ore Reserve.