

# OPERATIONS 2018 CONTINUED

## Doornkop

		FY18	FY17	FY16
<b>Number of employees</b>				
– Permanent		3 073	2 847	2 471
– Contractors		669	645	443
Total		3 742	3 492	2 914
<b>Operational</b>				
Volumes milled	(000t) (metric)	696	641	630
	(000t) (imperial)	767	706	695
Gold produced	(kg)	3 429	2 673	2 730
	(oz)	110 245	85 939	87 772
Gold sold	(kg)	3 404	2 712	2 712
	(oz)	109 440	87 193	87 193
Grade	(g/t)	4.93	4.17	4.33
	(oz/t)	0.144	0.122	0.126
Productivity	(g/TEC)	94.97	77.08	83.49
<b>Development results</b>				
Total metres		9 595	9 961	7 766
Reef metres		1 478	1 337	1 688
Capital metres		806	1 316	0
<b>Financial</b>				
Revenue	(Rm)	1 958	1 553	1 480
	(US\$m)	152	114	102
Average gold price received	(R/kg)	575 077	572 494	545 770
	(US\$/oz)	1 392	1 310	1 171
Cash operating cost	(Rm)	1 418	1 224	1 058
	(US\$m)	110	90	73
Production profit	(Rm)	547	312	433
	(US\$m)	43	23	30
Capital expenditure	(Rm)	274	243	208
	(US\$m)	21	18	14
Cash operating cost	(R/kg)	413 586	457 752	387 585
	(US\$/oz)	1 001	1 047	831
All-in sustaining cost	(R/kg)	508 065	562 907	473 562
	(US\$/oz)	1 230	1 288	1 016
<b>Safety</b>				
Number of fatalities		0	0	0
Lost-time injury frequency rate per million hours worked		6.78	7.50	12.27
<b>Environment</b>				
Electricity consumption	(GWh)	193	188	203
Water consumption – primary activities	(ML)	344 <sup>1</sup>	947	1 135
Greenhouse gas emissions	(000t CO <sub>2</sub> e)	199	186	206
Intensity data per tonne treated				
– energy		0.28	0.30	0.32
– water		0.49	1.48	1.80
– greenhouse gas emissions		0.27	0.30	0.32
Number of reportable environmental incidents		0	0	0
<b>Community</b>				
Local economic development*	(Rm)	6	8	4
Training and development	(Rm)	47	42	30

\* Included in the total for FY16 is an amount of R1 million that was capitalised as part of the hostel upgrades (FY17: R0 million, FY18: R0 million)

<sup>1</sup> Year-on-year decrease due to the installation of the 5ML recycling plant.

## Doornkop *continued*

### Other salient features

Status of operation	Mining takes place on the South Reef at this single-shaft operation.
Life of mine	16 years
Nameplate hoisting capacity (per month)	103 000 tonnes ( 113 000 tons)
Compliance and certification	New order mining right – October 2008 ISO 14001 ISO 9001 OHSAS 18001

### Mineral reserves as at 30 June 2018

Reserves (metric)	Proved reserves			Probable reserves			Total mineral reserves		
	Tonnes (Mt)	Grade (g/t)	Gold (000kg)	Tonnes (Mt)	Grade (g/t)	Gold (000kg)	Tonnes (Mt)	Grade (g/t)	Gold (000kg)
	3.0	5.01	15	4.0	5.07	20	7.0	5.05	35
Reserves (imperial)	Tons (Mt)	Grade (oz/t)	Gold (000oz)	Tons (Mt)	Grade (oz/t)	Gold (000oz)	Tons (Mt)	Grade (oz/t)	Gold (000oz)
	3.3	0.146	480	4.4	0.148	648	7.7	0.147	1 129

Doornkop, a single-shaft operation, is located in the Gauteng province of South Africa, approximately 30km west of Johannesburg, on the northern rim of the Witwatersrand Basin. Mining is conducted to a depth of 1 978m. The operation focuses on narrow-reef conventional mining of the South Reef. Ore from the operation is processed at the Doornkop plant.

Doornkop delivered an excellent safety performance in FY18 and achieved 3 million fatality free shifts on 24 February 2018. There were no fatalities in FY18. The lost-time injury frequency rate improved by 9% to 6.78 per million hours worked in FY18 from 7.50 in FY17.

Gold production increased by 28% to 3 429kg (110 245oz) in FY18. A 9% increase in ore milled to 696 000 tonnes (767 000 tons) and an 18% increase in the recovered gold grade to 4.93g/t (0.144oz/t) resulted in the increased production. The improved performance was aided by the availability of mining areas, disciplined mining and improved efficiencies from the Doornkop Plant.

Revenue increased by 26% to R1 958 million (33% increase to US\$152 million) due to the excellent production performance in FY18.

Cash operating costs increased by 16% to R1 418 million (increased by 22% to US\$110 million) mainly as a result of increased production.

Capital expenditure increased by 13% to R274 million (increased by 17% to US\$21 million) owing to an increase in shaft capital development on the 207 and 212 levels. Planned capital expenditure for FY19 includes the construction of a second outlet following the planned closure of Sibanye-Stillwater's Cooke 1 operation and continuing construction and development of 207/212 levels.

The planned seismic survey was completed during FY17. The related 3D modelling completed for Doornkop results in a geological model that significantly improves the structure of the orebody. Focus on achieving planned development targets to enable the life of mine production build up and an increase in production areas to enhance mining flexibility will be key in FY19.