ANGLOGOLD ASHANTI LTD

Form 6-K

March 31, 2008

SECURITIES AND EXCHANGE COMMISSION

**WASHINGTON, DC 20549** 

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER

PURSUANT TO RULE 13a-16 OR 15d-16 OF

THE SECURITIES EXCHANGE ACT OF 1934

Report on Form 6-K dated March 31, 2008

Commission File Number 1-14846

AngloGold Ashanti Limited

(Translation of registrant's name into English)

76 Jeppe Street

Newtown, 2001

(P.O. Box 62117, Marshalltown, 2107)

South Africa

(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F X Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Yes No X

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Yes No X

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes No X

**Enclosure:** 

Press

release ANGLOGOLD ASHANTI – SUPPLEMENTARY INFORMATION:

MINERAL RESOURCES AND ORE RESERVES 2007 - REPORTED IN

ACCORDANCE AND CONFORMING TO THE JORC CODE (2004

**EDITION) AND SAMREC 2000 CODE** 

Supplementary Information: Mineral Resources and Ore Reserves 07

#### Scope of report:

The country overview sections include a selection from the following tables: Mineral Resource and Ore Reserve gold price and exchange rates, details of average drill-hole spacing and type, Ore Reserve modifying factors, development sampling results, Mineral Resource and Ore Reserve comparison by operation and Mineral Resource and Ore Reserve by-products. Topics for discussion include Geology, Mineral Resource estimation, exclusive Mineral Resource, Ore Reserve estimation and Inferred Mineral Resource in business plan. The operation sections include a selection from the following discussion, tables and graphs: Geology, Mineral Resources, exclusive Mineral Resources, Mineral Resource and Ore Reserve reconciliation, Mineral Resource and Ore Reserve by-products, Ore Reserves, grade tonnage information and competent persons.

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<sup>\*</sup>Rounding of figures in this document may result in minor computational discrepancies

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 The SAMREC/JORC definition of a Mineral Resource is as follows:

A Mineral Resource is a concentration or occurrence of material of intrinsic economic interest in or on the earth's crust in such form, quality and quantity that there are reasonable prospects for eventual economic extraction. The location, quantity, grade, geological characteristics and continuity of a Mineral Resource are known, estimated or interpreted from specific geological evidence and knowledge. Mineral Resources are sub-divided, in order of increasing geological confidence, into Inferred, Indicated and Measured categories.

The Mineral Resource is estimated using all drilling and sampling information along with a detailed geological model. The geological models are based on core logging, mapping, geophysics, geochemistry and geological understanding that have been developed for each deposit. Most of the AngloGold Ashanti deposits have been the subject of research by world experts in the class of gold deposit. The grade estimation for each deposit has been developed over the life of the mine and is constantly reviewed in terms of grade control information and reconciliation with the metallurgical plant. In general, the deep South African mines utilise a process of compound log normal macro kriging for the estimation of the Mineral Resource, while the open pits and shallow underground mines generally use recoverable Mineral Resource models, estimated using uniform conditioning or multiple indicator kriging.

In order to comply with the economic requirement of the definition of a Mineral Resource, all AngloGold Ashanti Mineral Resources are constrained at an upside gold price, with all other parameters being kept the same as used for estimation of the Ore Reserve. In the underground gold mines, scoping studies are conducted on all coherent blocks of ground that lie above the calculated Mineral Resource cut-off. These studies include all cost and capital requirements to access the block. In the case of open-pit operations, pit optimisations are conducted at the Mineral Resource gold price and all material outside these shells is excluded from the Mineral Resource, unless it is potentially mineable from underground. It is the opinion of AngloGold Ashanti that the Mineral Resource represents a realistic view of an upside potential to the Ore Reserve. In interpreting the Mineral Resource it is critical to factor in the following:

The Mineral Resource is quoted in situ and has not been corrected for dilution, mining losses or recovery.

(ii)

The Mineral Resource includes a high percentage of Inferred material, which, following further exploration drilling may be converted to an Indicated or Measured Mineral Resource.

(iii)

Many of the areas lying in the exclusive Mineral Resource are currently being actively drilled and are the subject of economic

and technical studies. It can, however, not be assumed at this stage that the company has intent to mine these areas.

Mineral Resources definitions

Mineral Resource

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Mineral Resource classification is based on the '15% Rule'. A Measured Mineral Resource should be expected to be within 15% of the quarterly metal estimate at least 90% of the time, while for an Indicated Mineral Resource estimate the annual metal estimate should be within 15% of the metal estimated at least 90% of the time. For an Inferred Mineral Resource the annual error may for 90% of the time, be greater than 15%.

The process and methodology of classification are at the discretion of the competent person and involve expressing the '15% Rule' as a required level of information, in tangible terms, the spacing of the drill-hole or tunnel spacing in a particular deposit. Techniques such as conditional simulation or even an empirical reconciliation-based approach are employed. However, all operations are responsible for demonstrating, through reconciliation, that their classification system conforms to the 15% rule set out above.

AngloGold Ashanti quotes its Mineral Resource as inclusive of the Ore Reserve. However, in this document the exclusive Mineral Resource is also quoted. The exclusive Mineral Resource is defined as the inclusive Mineral Resource less the Ore Reserve before dilution and other factors are applied. The exclusive Mineral Resource consists of the following components:

Inferred Mineral Resource within the optimised shell;

Other Inferred Mineral Resource;

Measured and Indicated Mineral Resource that lies between the life of mine (LOM) pit shell/mine design and the Mineral Resource pit shell. This material will become economic if the gold price increases; and

Mineral Resource where the technical studies to engineer an Ore Reserve have not yet been completed.

Ore Reserve

The SAMREC/JORC definition of an Ore Reserve is as follows:

An Ore Reserve is the economically mineable part of a Measured and/or Indicated Mineral Resource. It includes diluting materials and allowances for losses, which may occur when the material is mined. Appropriate assessments and studies have been carried out, and include consideration of and modification by realistically assumed mining, metallurgical, economic, marketing, legal, environmental, social and governmental factors. These assessments demonstrate at the time of reporting that extraction could reasonably be justified. Ore Reserves are sub-divided, in order of increasing confidence, into Probable Ore Reserves and Proved Ore Reserves.

In the underground operations, Ore Reserves are based on a full mine design and in the case of open pits, on a pit optimisation followed by a final pit design. Ore Reserves are reported according to tonnage, mean grade(s), contained metal inclusive of mining dilution, mining ore losses and mine call factors. These modifying factors are based on measurements, rather than estimates. Tonnage and grade estimates for surface stockpile materials that meet Ore Reserve criteria are itemised separately.

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Only those Ore Reserves included for treatment in the business unit plan production schedule are considered in the Ore Reserve statement. These plans sometimes include marginal or sub-grade ores as well as Inferred Mineral Resources. These Inferred Mineral Resources are not included in the Ore Reserve statement. For new projects, an Ore Reserve is only reported if an auditable prefeasibility or feasibility study has been completed that demonstrates the viability of the project and meets the company's investment requirements. There should also be intent on the part of the company to proceed to feasibility and ultimately a mining phase. Traditional sensitivity studies are not applied to the Ore Reserve. Instead, the cash flow for each operation is tested using gold prices near to the average gold price for the preceding three years. Gold prices of US\$577 and US\$600/oz were used. In all cases, except for Tau Lekoa, the operations remained cash flow positive albeit at a reduced margin. In the case of Tau Lekoa, the Ore Reserve dropped from 1.3 million ounces to 0.4 million ounces at US\$577/oz. Mineral Resources definitions continued

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Mineral Resources and Ore Reserves

Mineral Resources

The 2007 Mineral Resource increased by 34.1 million ounces before the subtraction of depletion. After a depletion of 8.1 million ounces, the net increase is 26.1 million ounces to give a total Mineral Resource of 207.6 million ounces. Mineral Resources were estimated at a gold price of US\$700 per ounce in contrast to the US\$650 used in 2006. The increased gold price resulted in 17.5 million ounces of added Mineral Resource while successful exploration and revised modelling resulted in a further increase of 14.2 million ounces. The remaining change of 2.5 million ounces is the result of various other reasons.

Mineral Resources and Ore Reserves are reported in accordance with the minimum standard described by the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The JORC Code, 2004 Edition), and also conform to the standards set out in the South African Code for the Reporting of Mineral Resources and Mineral Reserves (the SAMREC 2000 Code). Mineral Resources are inclusive of the Ore Reserve component unless otherwise stated.

Moz

December 2006 Mineral Resources

181.6

Reductions

Geita

Increase in cost (1.6Moz) and revision to estimation in methodology (0.6Moz)

(2.3)

TauTona

Transfer of the shaft pillar Mineral Resource to Mponeng

(2.3)

Great Noligwa

Transfer of the shaft pillar Mineral Resource to Moab Khotsong

(1.8)

Kopanang

Decrease in grade as a result of the modelling of new sampling and drilling information

(1.6)

Sadiola

Increase in costs (0.6Moz) and revisions to methodology (0.1Moz)

(1.0)

Other

Total of non-significant changes

(2.3)

Additions

Gramalote

Successful greenfields exploration

1.6

Moab Khotsong

Transfers in from Great Noligwa and improved economics

2.3

Mongbwalu

Successful greenfields exploration

2.5

Tropicana

Successful greenfields exploration

2.8

Obuasi

Exploration below 50 level (1.3 Moz) and completion of additional Mineral Resource modelling above 50 level

4.0

Cripple Creek & Victor

Primarily revisions to the methodology with contribution from improved economics and exploration 4.7

Mponeng

Improvement in economics increased the Ventersdorp Contact Reef Mineral Resource to the west, the Carbon Leader Reef down to 4,300mbd was included on the back of a technical and economic study, material was transferred in from TauTona and revised modelling of the Carbon Leader Reef

17.1

Other

Total of non-significant changes

2.3

December 2007 Mineral Resources

207.6

Ore Reserves

The 2007 Ore Reserve increased by 13.0 million ounces before the subtraction of depletion. After a depletion of 6.8 million ounces, the net increase is 6.2 million ounces to give a total Ore Reserve of 73.1 million ounces.

A gold price of US\$600 was used for Ore Reserve estimates in contrast to the US\$550 used in 2006. The change in economic assumptions made from 2006 to 2007 resulted in the Ore Reserve increasing by 6.3 million ounces while exploration and modelling resulted in an additional increase of 6.7 million ounces.

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Moz

December 2006 Ore Reserves

66.9

Reductions

Geita

Reconciliation factors (0.8Moz), flattening of slopes (0.5Moz),

modelling revisions (0.2Moz) and costs (0.1Moz)

(2.0)

Sadiola

Impact of economic factors on deep sulphides and stockpiles

(1.3)

Kopanang

Drop in face value due to the modelling of new drilling and sampling information

(0.5)

Other

Total of non-significant changes

(1.7)

Additions

Iduapriem

Purchase of an additional 15% of the operation from the Ghanaian Government and the IFC, to bring the ownership to 100%

0.2

Savuka

Improved economic factors increase the life-of-mine

0.5

Navachab

Improved economics have brought in an additional push back to the west of the main pit

0.8

Siguiri

Two new deposits (Kintinian and the spent heap) were proved up by drilling

0.8

Cripple Creek & Victor

Inclusion of the life extension project

1.0

**Boddington** 

The upgrade of Inferred Mineral Resource within the pit shell by drilling

1.0

Mponeng

The inclusion of the Carbon Leader Reef Project below 120 level

3.4

Moab Khotsong

The inclusion of Project Zaaiplaats – a deepening of Moab Khotsong to access deeper

Vaal Reef blocks to the South West of the current mine

3.8

Other

Total of non-significant changes

 $0^3$ 

December 2007 Ore Reserves

73.1

Mineral Resources and Ore Reserves continued

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By-products

A number of by-products are recovered as a result of the processing of gold Ore Reserves.

These include 19,500 tonnes of uranium from the South African operations, 0.23 million tonnes of copper from Australia, 0.47 million tonnes of sulphur from Brazil and 31.0 million ounces of silver from Argentina. Details of the by-product Mineral Resources and Ore Reserves are given in the by-product tables within each operational section.

Audit of 2006 Mineral Resource and Ore Reserve

statement

During the course of the year, the AngloGold Ashanti 2006 Mineral Resources and Ore Reserves for the following operations were submitted for external audit:

Mponeng

Geita

Obuasi

Morila

Sadiola

Yatela

Cuiabá

Cripple Creek & Victor

The company has been informed that the audits identified no material shortcomings in the process by which AngloGold Ashanti's Ore Reserves and Mineral Resources were evaluated.

During 2007, it was resolved to audit the Mineral Resources and Ore Reserves prior to publication. As a result the 2007 Mineral Resources and Ore Reserves for the following operations were audited late in 2007:

Sunrise Dam

Cerro Vanguardia

Great Noligwa

Kopanang

Project Zaaiplaats (Moab deepening project)

The company has been informed that these audits identified no material shortcomings in the process by which AngloGold Ashanti's Mineral Resources and Ore Reserves were evaluated. It is the company's intention to continue this process so that its operations will be audited every three years on average.

Competent persons

The information in this report that relates to exploration results, Mineral Resources or Ore Reserves is based on information compiled by the competent persons listed below. They are either members of the Australian Institute of Mining and Metallurgy (AusIMM) or recognised overseas professional organisations. They are all full-time employees of the company.

The competent person for AngloGold Ashanti exploration is: E Roth, PhD (Economic Geology), BSc (Hons) (Geology), MAusIMM,

17 years' experience.

Competent persons for AngloGold Ashanti's Mineral Resources are:

VA Chamberlain, MSc (Mining Engineering), BSc (Hons) (Geology), MAusIMM, 22 years' experience.

MF O'Brien, MSc (Mining Economics), BSc (Hons) (Geology), Dip

Data, Pr.Sci.Nat., MAusIMM, 28 years' experience.

Competent persons for AngloGold Ashanti's Ore Reserves are:

CE Brechtel, MSc (Mining Engineering), MAusIMM, 32 years' experience.

D L Worrall, ACSM, MAusIMM, 27 years' experience.

J van Zyl Visser, MSc (Mining Engineering), BSc (Mineral Resource Management), PLATO, 21 years' experience.

The competent persons consent to the inclusion of the exploration, Mineral Resources and Ore Reserves information in this report, in the form and context in which it appears.

Note that the rounding of figures in this document may result in minor computational discrepancies.

Mineral Resources and Ore Reserves continued AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mineral Resources by country (attributable) Metric Imperial Contained Contained Resource Tonnes Grade gold Tons Grade gold as at 31 December 2007 category million (g/t)tonnes million (oz/t)million oz South Africa Measured 28.0 13.98 391.9 30.9 0.408 12.6 Indicated 747.1 3.01 2,251.1 823.5 0.088 72.4 Inferred 37.7 10.92 411.8 41.6 0.319 13.2 Total 812.8

3.76 3,054.8 896.0 0.110

98.2 Argentina Measured 11.1 1.71 18.9 12.2 0.050 0.6 Indicated 21.1 3.73 78.8 23.3 0.109 2.5 Inferred 2.9 3.85 11.2 3.2 0.112 0.4 Total 35.1 3.10 108.8 38.7 0.090 3.5 Australia Measured 86.1 1.01 87.1 94.9 0.030 2.8 Indicated 315.9 0.87 273.4 348.3 0.025 8.8 Inferred 153.4 0.93

> 143.2 169.1 0.027

4.6 Total 555.5 0.91 503.7 612.3 0.026 16.2 Brazil Measured 12.5 7.48 93.1 13.7 0.218 3.0 Indicated 13.2 6.32 83.3 14.5 0.184 2.7 Inferred 27.4 6.98 191.3 30.2 0.204 6.2 Total 53.0 6.94 367.7 58.4 0.202 11.8 Colombia Measured Indicated

Inferred 43.4 1.14 49.5 47.8 0.033 1.6 Total 43.4 1.14 49.5 47.8 0.033 1.6 Democratic Republic Measured of Congo Indicated Inferred 29.2 2.68 78.5 32.2 0.078 2.5 Total 29.2 2.68 78.5 32.2 0.078 2.5 Ghana Measured 95.3 5.18

493.7 105.0

0.151 15.9 Indicated 82.4 3.91 322.4 90.8 0.114 10.4 Inferred 45.3 7.34 332.6 49.9 0.214 10.7 Total 222.9 5.15 1,148.7 245.7 0.150 36.9 Guinea Measured 38.7 0.72 27.7 42.7 0.021 0.9 Indicated 92.7 0.78 72.5 102.1 0.023 2.3 Inferred 58.1

0.92 53.6 64.1 0.027 1.7 Total 189.5 0.81 153.8 208.9 0.024

20

4.9 Mali Measured 16.5 1.66 27.4 18.2 0.048 0.9 Indicated 16.2 3.09 50.0 17.8 0.090 1.6 Inferred 6.1 2.36 14.3 6.7 0.069 0.5 Total 38.8 2.37 91.7 42.7 0.069 3.0 Namibia Measured 11.7 0.79 9.2 12.8 0.023 0.3 Indicated 59.3 1.31 77.5 65.3 0.038 2.5 Inferred 45.2 1.12

50.9 49.9 0.033

1.6 Total 116.2 1.18 137.6 128.1 0.035 4.4 Tanzania Measured 6.3 1.20 7.6 7.0 0.035 0.2 Indicated 84.4 3.72 314.1 93.1 0.109 10.1 Inferred 18.6 3.54 65.8 20.5 0.103 2.1 Total 109.3 3.54 387.4 120.5 0.103 12.5 **United States** Measured 250.1 0.81 203.3 275.7 0.024 6.5 Indicated 173.5 0.73 126.1

191.2 0.021

4.1 Inferred 70.6 0.65 45.9 77.8 0.019 1.5 Total 494.1 0.76

375.4

544.7

0.022

12.1

Total

Measured

556.3

2.44

1,360.0

613.2

0.071

43.7

Indicated

1,605.7

2.27

3,649.0

1,770.0

0.066

117.3

Inferred

537.9

2.69

1,448.6

592.9

0.079

46.6

Total

2,699.9

2.39

6,457.5

2,976.1

0.070

207.6

Ore Reserves by country (attributable) Metric Imperial Contained Contained Reserve Tonnes Grade gold Tons Grade gold as at 31 December 2007 category million (g/t)tonnes million (oz/t)million oz South Africa Proved 21.5 7.58 162.8 23.7 0.221 5.2 Probable 216.4 4.12 891.2 238.6 0.120 28.7 Total 237.9 4.43 1,054.0 262.3 0.129 33.9 Argentina Proved

1.0 6.08 6.3 1.2 0.177 0.2

Probable 7.9 6.58 52.1 8.7 0.192 1.7 Total 9.0 6.52 58.4 9.9 0.190 1.9 Australia Proved 68.6 1.14 78.5 75.7 0.033 2.5 Probable 164.8 0.88 144.7 181.7 0.026 4.7 Total 233.4 0.96 223.2 257.3 0.028 7.2 Brazil Proved 8.9 6.75 60.1 9.8 0.197 1.9

Probable 4.9 5.99 29.1 5.4 0.175 0.9

25

Total 13.8

6.48

89.3

15.2

0.189

2.9

Ghana

Proved

68.8

2.96

203.7

75.8

0.086

6.6

Probable

28.3

4.62

130.5

31.2

0.135

4.2

Total

97.0

3.44

334.3

107.0

0.100

10.7

Guinea

Proved

21.3

0.59

12.6

23.5

0.017

0.4

Probable

89.6

0.77

69.2

98.7

0.023

2.2

Total

110.9

0.74

81.8

122.2

0.022

2.6

Mali Proved 9.0 2.18 19.7 10.0 0.064 0.6 Probable 7.1 2.57 18.3 7.9 0.075 0.6 Total 16.2 2.35 38.1 17.8 0.069 1.2 Namibia Proved 5.8 1.00 5.8 6.4 0.029 0.2 Probable 27.3 1.46 39.9 30.1 0.043 1.3 Total 33.1 1.38 45.6 36.5 0.040 1.5 Tanzania Proved

5.6 1.01 5.7 6.2 0.030 0.2

Probable

62.4

3.14

195.9

68.7

0.092

6.3

Total

68.0

2.96

201.6

\_\_\_\_

74.9

0.086

6.5

**United States** 

Proved

107.9

0.96

103.8

118.9

0.028

3.3

Probable

47.6

0.92

44.0

52.5

0.027

1.4

Total

155.5

0.95

147.8

171.4

0.028

4.8

Total

Proved

318.5

2.07

659.1

351.0

0.060

21.2

Probable

656.3

2.46

1,614.9

723.4

0.072

51.9 Total 974.7 2.33 2,274.0 1,074.4 0.068 73.1 10

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 South Africa operations: overview

The Vaal River operations consist of Great Noligwa, Kopanang, Tau Lekoa and Moab Khotsong mines. The primary reefs in this region are the Vaal Reef (VR) and the Ventersdorp Contact Reef (VCR) and the secondary reef mined is the Crystalkop Reef (C Reef). The West Wits operations are made up of Mponeng, Savuka and TauTona and these mines are situated near the town of Carletonville. The primary reefs mined are the Carbon Leader Reef (CLR) and VCR. All seven operations are 100% owned by AngloGold Ashanti. In addition, the Vaal River Surface and West Wits Surface operations consist of the reprocessing of waste rock dumps and tailings dams resulting from the mining of the primary and secondary reef horizons. The South African operations are all located in the rocks of the famous Witwatersrand Basin, which is regarded as the greatest gold-bearing repository on Earth.

Geology of the Witwatersrand Basin

The Witwatersrand Supergroup (deposited in the area often described as the Witwatersrand Basin) comprises a six-kilometre thick sequence of predominantly argillaceous and arenaceous sediments that extend laterally for some 300km north-east/south-west and 100km north-west/south-east on the Kaapvaal Craton. The upper portion of the sequence contains the laterally-extensive, gold-bearing quartz pebble conglomerate horizons or reefs.

Further west, south and east the basin is overlain by up to four kilometres of Archaean, Proterozoic and Mesozoic volcanic and sedimentary rocks. The Witwatersrand Basin is late Archaean in age and is considered to be around 2.7 billion to 2.8 billion years old. The reefs, which are generally less than two metres thick, are widely considered to represent laterally extensive braided fluvial deposits. Separate fan systems were developed at different entry points and these are preserved as distinct goldfields with local geological variations. AngloGold Ashanti operates in two of these goldfields, known as the Carletonville (West Wits) and Klerksdorp (Vaal River) Goldfields.

There is still much debate about the origin of the gold mineralisation in the Witwatersrand Basin. Gold was generally considered to have been deposited syngenetically with the conglomerates, but increasingly an epigenetic theory of origin is being supported. Nonetheless, the most fundamental determinant of gold distribution in the basin remains the sedimentary features, such as facies variations and channel directions. Gold generally occurs in native form often associated with pyrite and carbon, with quartz being the main gangue mineral.

West Wits (Mponeng, Savuka and TauTona operations)

Two reef horizons are exploited at the West Wits operations: the VCR, located at the top of the Central Rand Group, and the CLR near the base. The separation between the two reefs increases from east to west, from 400m to 900m, due to the non-conformity of the VCR with Vaal River Operations

Great Noligwa Kopanang Tau Lekoa Moab Khotsong West Wits Operations

Savuka

TauTona

Mponeng

Operations

Johannesburg

North West

Gauteng

Free State

Eastern Cape

SOUTH AFRICA

Welkom

Carletonville

Klerksdorp

Durban

Cape

Town

Bloemfontein

0

400km

Orkney

The South African operations comprise seven underground mines which are located in two geographical regions on the Witwatersrand Basin; known as the

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the underlying strata. TauTona and Savuka exploit both reefs, while currently Mponeng only mines the VCR. The CLR Project has been published as a reserve and Mponeng will eventually mine both reefs. The structure is relatively simple, with rare instances of faults displaying greater than 70m of displacement.

The CLR consists of one or more conglomerate units and varies from several centimetres to more than three metres in thickness. Regionally, the VCR dips at approximately 21°, but may vary between 5° and 50°, accompanied by changes in thickness of the conglomerate units. Where the conglomerate has the attitude of the regional dip, it tends to be thick, well-developed and accompanied by higher gold accumulations. Where the attitude departs significantly from the regional dip, the reef is thin, and varies from several centimetres to more than three metres in thickness.

Vaal River (Great Noligwa, Kopanang, Moab Khotsong and Tau Lekoa operations and Vaal River Surface Rock Dumps)

In order of importance, the reefs mined at the Vaal River operations are the VR, the VCR and the C Reef:

the VR contains approximately 85% of the reserve tonnage with mining grades of between 10g/t and 20g/t gold and comprises a series of oligomictic conglomerates and quartzite packages developed on successive non-conformities. Several distinct facies have been identified, each with its own unique gold distribution and grade characteristic;

the VCR has a lower gold grade than the VR, and contains approximately 15% of the estimated Ore Reserves. The economic portion is concentrated in the western part of the lease area and can take the form of a massive conglomerate, a pyritic sand unit with intermittent pebble layers, or a thin conglomerate horizon. The reef is located at the contact between the overlying Kliprivierberg Lavas of the Ventersdorp Super Group and the underlying sediments of the Witwatersrand Super Group, which creates a distinctive seismic reflector. The VCR is located up to one kilometre above the VR; and

the C Reef is a thin, small-pebble conglomerate with a carbon-rich basal contact, located approximately 270m above the VR. It has less than 1% of the estimated Ore Reserves with gold grades similar to those of the VR, but less continuity. The most significant structural features are the north-east striking normal faults which dip to the north-west and south-east, resulting in zones of fault loss. Orkney

West Wits locality plan Vaal River locality plan

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 South Africa operations: overview continued

Details of average drill-hole spacing and type in relation to Mineral Resource classification Mine/Project

Category

Spacing

Diamond

Chip

Comments

m(-x-)

drilling

sampling

South African

Measured

5 x 5

Based on constrained kriging variance, supported mines by chip sampling in stopes. Indicated 2 x 200

Supported by underground drillholes and chip sampling of reef development ends.

Inferred

1000 x 1000

Supported by surface drillholes. Grade/Ore control 5 x 5

Chipped channel samples.

Mineral Resource estimation

A multi-disciplinary approach is adapted to Mineral Resource estimation whereby inputs are required from the geology, survey, mine planning and evaluation departments. A computerised system called the Mineral Resource Inventory System (MRIS) integrates all the input information to produce the final Mineral Resource per operation. The Mineral Resource estimates are computed from a composite grid of value estimates, comprising various block sizes. The macro block sizes vary from 210m x 210m to 420m x 420m and the micro blocks comprise of 30m x 30m blocks.

Compound lognormal macro co-kriging estimation techniques are used to produce estimates for the larger block sizes. This technique uses the Bayesian approach whereby the assayed (observed) data in the mined-out areas are used to infer the population characteristics of the area ahead of current mining. The geological model forms the basis

for this estimation and all surface borehole information from the peripheral areas of the mine lease play a crucial role in determining the geological model boundaries. Simple kriging is used for the 30 metre block sizes and these estimates are constrained by the kriging variance. The Mineral Resources are initially reported as inclusive of Ore Reserves as they form the basis for the Ore Reserve conversion process. Mineral Resource cut-offs are computed by operation, for each reef horizon. These cut-offs incorporate a profit margin that is relevant to the business plan. Mineral Resource grade tonnage curves are produced for the individual operations, which show the potential of the orebody at different cut-offs. These curves are produced for dimensions equivalent to a practical mining unit for underground operations.

#### **Exclusive Mineral Resource**

The exclusive Mineral Resource is defined as the inclusive Mineral Resource minus the in-situ Ore Reserve before stoping width, dilution and mine call factors are applied. Scoping studies are conducted on this exclusive Mineral Resource, where capital requirements and current costs are used to test economic potential. If these studies show no reasonable economic potential at the Mineral Resource gold price then the material is excluded from the Mineral Resource. All planned pillars (ahead of current mining) form part of the exclusive Mineral Resource.

Mineral Resource and Ore Reserve gold price and exchange rates Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

550

Exchange rate - South Africa

ZAR/US\$

7.70

6.50

```
13
```

Ore Reserve estimation

All mine designs are undertaken using the Cadsmine

(R

software

package and include the delineation of mining or stoping areas for each mining level and section, usually leading from an extension to the existing mining sequence, and the definition of the necessary development layouts. The in-situ Mineral Resource is scheduled monthly for the full LOM plan. The value estimates for these schedules are derived directly from MRIS.

Modifying factors are applied to the in-situ Mineral Resource to arrive at an Ore Reserve. These factors comprise a dilution factor to accommodate the difference between the mill width and the stoping width as well as the Mine Call Factor (MCF).

Inferred Mineral Resource in business plan

The LOM plan includes minimal Inferred Mineral Resource.

Ore Reserve modifying factors (as at 31 December 2007)

Mineral Resource

Ore Reserve

Mine

Metal-

cut-off

cut-off

Cut-off

Stoping

Call

lurgical

grade

grade

value

width

Dilution

(1)

\*

Factor \*\* recovery

Other

Mine/Project

g/t (Au)

g/t (Au)

cmg/t (Au)

cm

%

%

% factor

Great Noligwa

4.40

4.66

700

150

40% 67% 96% n/a Kopanang 3.92 6.86 700 102 51% 64% 98% n/a Moab Khotsong 4.40 5.08 750 148 57% 78% 97% n/a Tau Lekoa 2.13 7.09 1,000 141 30% 84% 97% n/a Mponeng 3.58 5.96 750 126 87% 85% 98% n/a Savuka 5.45 8.18 900 110 56% 70% 97% n/a

TauTona 5.01

11.01 1,100 100 101% 78% 98% n/a

SA MET

0.35

0.35

,

n/a

n/a

n/a

n/a

76%

n/a

- 1. Where no dilution factor is indicated the dilution is inherent in the resource model estimate.
- \* Dilution: The difference between the tonnage broken in stopes and the tonnage milled from underground sources. For example, if 100 tonnes broken in

the stopes amounts to 132 tonnes milled, then the dilution is 32%.

\*\* Mine Call Factor (MCF): The ratio expressed as a percentage, which the specific product accounted for in the recovery, plus residues, bears to the

corresponding product called for by the mine's measuring methods.

South Africa operations: overview continued

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Development sampling results – January to December 2007

Development values represent actual results of sampling. No allowances having been made for adjustments necessary in estimating Ore Reserves.

Advanced

Average

Uranium

Statistics are shown

metres

Sampled

channel

Average

Average

Sampled

Average

Average

in metric units

(total)

metres

width (cm)

g/t

cm g/t

metres

kg/t

cm kg/t

Vaal River

Great Noligwa mine

Vaal Reef

9,119

1,120

101.1

29.81

3,014

556

1.32

127.03

Kopanang mine

Vaal Reef

25,532

2,330

16.8

119.29

2,004

322

5.07

90.26

Moab Khotsong mine

Vaal Reef

16,986

1,324 131.6 23.36 3,074 312 1.07 132.43 Tau Lekoa mine Ventersdorp Contact Reef 8,512 1,420 94.5 8.57 810 42 0.09 11.84 West Wits TauTona mine Ventersdorp Contact Reef 904 Carbon Leader Reef 10,711 360 16.4 129.88 2,130 128 1.58 25.36 Savuka mine Ventersdorp Contact Reef 122 Carbon Leader Reef 1,979

Mponeng mine Ventersdorp Contact Reef 17,017 2,826 89.0 26.53 2,361 Average Advanced channel Uranium Statistics are shown feet Sampled width Average Average Sampled Average Average in imperial units (total) feet (inches) oz/t ft g/t feet lb/t ft lb/t Vaal River Great Noligwa mine Vaal Reef 29,917 3,675 39.8 0.87 2.88 1,824 2.64 8.76 Kopanang mine Vaal Reef

83,766

7,644 6.6 3.48 1.92 1,056 10.14 5.59 Moab Khotsong mine Vaal Reef 55,729 4,344 51.8 0.68 2.94 1,024 2.14 9.24 Tau Lekoa mine Ventersdorp Contact Reef 27,927 4,659 37.2 0.25 0.77 138 0.18 0.56 West Wits TauTona mine Ventersdorp Contact Reef 2,967 Carbon Leader Reef 35,141 1,181 6.5 3.79 2.04 420 3.16 1.70 Savuka mine Ventersdorp Contact Reef 399

15 Mineral Resource and Ore Reserve comparison by operation (attributable) Gold content (million ounces) % change % change from from 2006 Net diff 2006 Percentage Other before after after Mine/Project attributable Category 2006 Depletion(1) change(2) depletion 2007 depletion depletion Comments Great Noligwa 100% Resource 10.629 (0.738)(1.057)(10%)8.834 (1.795)(17%)Transfer of the shaft pillar Mineral Resource to Moab Khotsong Reserve 4.034 (0.500)0.368 9% 3.902 (0.132)(3%)The C Reef was included due to improved economics Kopanang 100% Resource

10.977 (0.721) (0.909)

(8%)9.347 (1.630)(15%)Decrease in grade as a result of the modelling of new sampling and drilling information Reserve 4.836 (0.426)(0.069)(1%)4.341 (0.495)(10%)Drop in face value due to the modelling of new drilling and sampling information Moab Khotsong 100% Resource 11.528 (0.087)2.349 20% 13.790 2.262 20% Transfers in from Great Noligwa mine and improved economics Reserve 3.171 (0.074)3.872 122% 6.969 3.798 120% The inclusion of Project Zaaiplaats - a deepening of Moab Khotsong to access deeper Vaal Reef blocks to the south-west of the current mine Tau Lekoa 100% Resource 7.149 (0.199)(0.460)(6%)6.490 (0.659)(9%)

There was a decrease in the Mineral Resource based on a scoping exercise Reserve 1.331 (0.174)0.137 10% 1.294 (0.037)(3%)Improved mining factors allowed the mine to offset the depletion Mponeng 100% Resource 24.422 (0.679)17.812 73% 41.555 17.133 70% Improvement in economics increased the Ventersdorp Contact Reef Mineral Resource to the west, the Carbon Leader Reef down to 4,300mbd was included on the back of a technical and economic study, material was transferred in from TauTona and revised modelling of the Carbon Leader Reef Reserve 6.778 (0.603)3.979 59% 10.154 3.376 50% The inclusion of the Carbon Leader Reef Project below 120 level Savuka 100% Resource 2.170 (0.118)0.563 26% 2.615 0.445

21%

| Increase due to transfers in from       |
|---|
| Mponeng and improved economics Reserve  |
| 0.174                                   |
|   |
| (0.075)                                 |
| 0.590                                   |
| 339%                                    |
| 0.689                                   |
| 0.515                                   |
| 296%                                    |
| Improved economic factors               |
| increased the life-of-mine              |
| TauTona                                 |
| 100%                                    |
| Resource                                |
| 11.314                                  |
| (0.492)                                 |
| (1.782)                                 |
| (16%)                                   |
| 9.040                                   |
| (2.274)                                 |
| (20%)                                   |
| Transfer of the shaft pillar Mineral    |
| Resource to Mponeng                     |
| Reserve                                 |
| 4.987                                   |
| (0.410)                                 |
| 0.034                                   |
| 1%                                      |
| 4.611                                   |
| (0.376)                                 |
| (8%)                                    |
| Decrease as a result of a 4% drop       |
| in grade                                |
| Vaal River Surface 100%                 |
| Resource                                |
| 4.592                                   |
| (0.153)                                 |
| 0.664                                   |
| 14%                                     |
| 5.103                                   |
| 0.511                                   |
| 11%                                     |
| Improved economics brought              |
| additional material out of Inventory(3) |
| Reserve                                 |
| 1.912                                   |
| (0.153)                                 |
| 0.165                                   |
| 9%                                      |
| 1.924                                   |
|   |

The upgrade of some Inferred surface rock dumps offset the depletion West Wits Surface 100% Resource 0.686 (0.009)0.762 111% 1.439 0.753 110% Improved economics brought additional material out of Inventory(3) Reserve South Africa Totals Resource 17.942 21% 98.213 14.746 83.467 (3.196) 18% Reserve 27.223 (2.415) 9.076 33% 33.884 6.661 24%

0.012 1%

- 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.
- 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change.
- 3. Inventory: material that lies within the Mineral Resource but which will not be mined eg. abandoned pillars.

South Africa operations: overview continued 16

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 AngloGold Ashanti produces uranium oxide concentrate (U3O8) as a by-product from its South African gold mining operations. AngloGold Ashanti currently produces between 550 and 650 tonnes of U3O8 annually, with the potential to increase this to 1,000 tonnes by the year 2012.

Although mined as a by-product of gold for many years, U3O8 was not considered a resource until the year 2005. Due to the rapid increase in the U3O8 price over the last few years, renewed focus has been placed on the U3O8 content within the Witwatersrand reefs with the result that in 2005 uranium was reported for the first time as a fully SAMREC compliant resource.

The AngloGold Ashanti mines in the Vaal River region that currently produce uranium oxide as a by-product are Great Noligwa, Kopanang and Moab Khotsong. The uranium oxide is extracted from the VR, although Great Noligwa mine also produces some uranium oxide from the C Reef. The mines in the West Wits region that have uranium resources are Mponeng, Savuka and TauTona and in this mining region the uranium is extracted from the CLR.

The surface tailings storage facilities that have been classified as uranium resources are the Kopanang Pay dam and the tailings storage facilities in the West Wits region.

Uraninite and brannerite are the most common uranium bearing minerals, although uraniferous leucoxene and coffinite are also present. Uraninite was the original primary uranium bearing mineral and was possibly introduced as detrital material during the deposition process of the Witwatersrand sediments.

Uranium oxide

17 Mineral Resource by-products – Uranium oxide (U 3 0 8 Metric Imperial Contained Contained Resource Tonnes Grade uranium Tons Grade uranium Mine/Project category million (kg/t) tonnes million (1b/t)tons Great Noligwa Measured Indicated 18.6 0.56 10,480 20.5 1.13 11,553 Inferred 1.8 0.41 741 2.0 0.83 817 Total 20.4 0.55

11,221

22.5 1.10 12,369 Kopanang Measured Indicated 17.0 0.77 13,202 18.8 1.55 14,553 Inferred 0.8 0.63 524 0.9 1.25 578 Total 17.9 0.77 13,726 19.7 1.54 15,130 Moab Khotsong Measured 1.4 0.79 1,080 1.5 1.59 1,191 Indicated 17.6 0.73 12,852 19.4 1.46

14,167 Inferred 4.3 0.88 3,791

4.7 1.77 4,179 Total 23.2 0.76 17,723 25.6 1.53 19,537 Mponeng Measured Indicated 22.1 0.24 5,189 24.3 0.47 5,720 Inferred 15.7 0.24 3,684 17.3 0.47 4,060 Total 37.8 0.24 8,872 41.6 0.47 9,780 Savuka Measured Indicated 4.9

0.20 955

5.4 0.39 1,052 Inferred Total 4.9 0.20 955 5.4 0.39 1,052 TauTona Measured Indicated 9.8 0.31 3,026 10.8 0.62 3,335 Inferred Total 9.8 0.31 3,026 10.8 0.62 3,335 Vaal River Surface Measured

Indicated 0.9 0.24 225 1.0 0.48 248 Inferred Total 0.9 0.24 225 1.0 0.48 248 West Wits Surface Measured Indicated 161.5 0.07 11,607 178.0 0.14 12,795 Inferred Total 161.5 0.07 11,607

178.0

0.14 12,795 Total Measured 1.4 0.79 1,080 1.5 1.59 1,191 Indicated 252.4 0.23 57,535 278.2 0.46 63,422 Inferred 22.6 0.39 8,740 24.9 0.77 9,634 Total 276.4 0.24 67,355 304.6 0.49 74,247 Ore Reserve by-products – Uranium oxide (U308) Metric Imperial Contained Contained Reserve Tonnes Grade uranium Tons Grade uranium Mine/Project category million (kg/t) tonnes

million (lb/t) tons

## Great Noligwa Proved 9.9 0.34 3,382 10.9 0.68 3,728 Probable 6.6 0.32 2,138 7.3 0.65 2,357 Total 16.5 0.33 5,520 18.2 0.67 6,084 Kopanang Proved 5.1 0.34 1,749 5.6 0.69 1,928 Probable 11.2 0.34 3,864 12.4 0.69 4,259 Total 16.3 0.34 5,614 18.0 0.69 6,188 Moab Khotsong Proved 1.2 0.31 357 1.3

0.62

393

Probable

20.2

0.40

8,001

22.3

0.79

8,820

Total

21.3

0.39

8,358

23.5

0.78

9,213

Total

Proved

16.1

0.34

5,488

17.8

0.68 6,049

Probable

38.0

0.37

14,003

41.9

0.74

15,436

Total

54.2

0.36

19,491

59.7

0.72

21,485

18

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Great Noligwa

Great Noligwa is located about 15km south-east of the town of Orkney, in the southern part of the Klerksdorp Goldfield. The mine exploits the VR at depths varying between 1,500m and 2,800m below surface. Scattered mining methods are employed where access to the reef is from the footwall haulage and return airway development, with cross-cuts developed every 180m to the reef horizon. Raises are then developed on-reef to the level above and the reef is stoped out on strike. The Great Noligwa lease area is constrained to the north by Harmony's Orkney 2 Shaft, to the east by Buffelsfontein Gold Mine, to the south by the Jersey and Die Hoek faults, (which displace the reef down by approximately 1,000m and 900m respectively), and to the west by Kopanang Mine.

Geology

The VR is the principal economic horizon at Great Noligwa Mine, accounting for over 90% of the gold produced at the mine. The VR is part of the Witwatersrand Supergroup and is stratigraphically located near the middle of the Central Rand Group in the Johannesburg Subgroup on an unconformity below the Krugersdorp Formation. The VR unit can reach a maximum thickness of over two metres and consists of a thin basal conglomerate (the C Facies) and a thicker sequence of upper conglomerates (the A Facies), separated by internal quartzite (the B Facies). Across most of the Great Noligwa lease area, the A Facies is the principal economic horizon within the VR, although sporadic remnants of C Facies may be preserved below the A Facies.

The C Reef has been mined on a limited scale in the central part of Great Noligwa mine, where a high-grade, north-south orientated channel containing two economic horizons has been exposed. To the east and west of this channel the C Reef is poorly developed with relatively small areas of economic interest. High uranium values in the C Reef are often associated with high gold values. To the north the C Reef sub-crops against the Gold Estates Conglomerates, and in the extreme south of the mine the C Reef has been eliminated by a deeply eroded Kimberley Channel and the Jersey fault.

South Africa operations: Great Noligwa

19 Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t) (000s)Great Noligwa – Crystalkop Reef Measured 874 9.19 8,034 964 0.268 258 Indicated 4,387 10.07 44,182 4,836 0.294 1,420 Inferred 780 9.08 7,081 859 0.265 228 Total 6,041 9.81 59,297 6,660 0.286 1,906

Great Noligwa – Vaal Reef

Measured

8,701 14.84 129,151 9,591 0.433 4,152 Indicated 4,589 16.60 76,168 5,059 0.484 2,449 Inferred 826 12.28 10,141 910 0.358 326 Total 14,116 15.26 215,461 15,560 0.445 6,927 Great Noligwa – Measured 9,575 14.33 137,186 10,555 0.418 4,411 **Total Mineral Resource** Indicated 8,977 13.41 120,350 9,895 0.391 3,869 Inferred 1,605 10.73 17,222

1,770 0.313 554 Total

20,157 13.63 274,758 22,220 0.398 8,834 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Great Noligwa Measured 2.5 10.95 26.9 2.7 0.320 0.9 Indicated 4.2 11.68 49.5 4.7 0.341 1.6 Inferred 1.6 10.73 17.2 1.8 0.313 0.6 Total 8.3

11.28 93.6

9.1 0.329 3.0 The shaft pillar and the C Reef form potential mineable areas. Approximately 20% to 30% of the exclusive Mineral Resource is expected to be taken up in safety and remnant pillars ahead of current mining. Great Noligwa: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 9.8 10.6 2006 -7.4 Depletion 4.91 Gold price -0.9 Other 0.3 Exploration 8.8 2007 -1.4 Cost 10.8 8.8 7.8 6.8 5.8 0.4 Methodology Change Great Noligwa: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 4.0 2006 3.9 2007 0.7 Model change -0.5 Depletion 4.0 3.0 -0.4

Scope change

Change

20

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 South Africa operations: Great Noligwa continued

Great Noligwa – Metric

Tonnes above

cut-off (millions)

0.00

3.99

0.00

Cut-off grade (g/t)

17.95

Ave grade

above cut-off (g/t)

24.42

22.99

20.14

18.71

15.85

14.43

13.00 15.95

13.96

11.96

9.97

7.98

5.98

1.99

12.00

17.28

21.56

25.85

2.00

19.94

16.00

20.00

8.00

4.00 6.00

10.00

14.00

18.00

Tonnes above cut-off

Ave grade above cut-off

Tons above cut-off

Ave grade above cut-off

Great Noligwa - Imperial

Tons above

cut-off (millions)

0.00 0.29 0.41 0.47 0.12 0.35 17.59 0.00 0.53 Cut-off grade (oz/t) 21.98 19.78 Ave grade above cut-off (oz/t) 0.80 0.72 0.64 0.56 0.48 0.40 0.32 0.00 0.24 0.16 0.08 15.39 13.19 10.99 8.79 6.59 4.40 2.20 0.06 0.18 0.23 0.58 Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)

(kg)

(000s)(oz/t)(000s)Great Noligwa – Crystalkop Reef Proved 610 5.24 3,194 672 0.153 103 Probable 2,489 6.03 15,014 2,744 0.176 483 Total 3,099 5.88 18,208 3,416 0.171 585 Great Noligwa - Vaal Reef Proved 9,307 7.60 70,720 10,259 0.222 2,274 Probable 4,126 7.86 32,447 4,548 0.229 1,043 Total 13,433 7.68 103,167 14,807 0.224 Great Noligwa – Total Ore Reserve Proved 9,916

7.45

73,914 10,931 0.217 2,376 Probable 6,615 7.17 47,461 7,292 0.209 1,526 Total 16,531 7.34 121,375 18,223 0.214 3,902 Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource I Bisschoff **SACNASP** 4001031/88 17 years Ore Reserve

HA Kruger PLATO PMS0114 30 years

Grade tonnage information

21

South Africa operations: Kopanang

Kopanang

Kopanang mine is located about 10km south-east of the town of Orkney, in the southern part of the Klerksdorp Goldfield. The mine exploits the VR at depths varying between 1,300m and 2,200m below surface. The C Reef is a secondary reef that occupies a stratigraphic horizon about 260m above the VR. Scattered mining methods are employed.

Geology

The VR is the principal economic horizon on Kopanang, accounting for over 95% of the gold mined. The VR is part of the Witwatersrand Supergroup and is stratigraphically located near the middle of the Central Rand Group in the Johannesburg Subgroup on an unconformity below the Krugersdorp Formation. The VR package can reach a maximum thickness of over two metres and consists of a thin basal conglomerate (the C Facies) and a thicker sequence of upper conglomerates (the A Facies), separated by internal quartzite (the B Facies). Across most of the Kopanang lease area only the basal C Facies is mined.

The C Reef has been mined on a limited scale in the central parts of Kopanang, where the gold and uranium values are generally lower than the VR. The C Reef sub-crops in the north against the Gold Estates Conglomerates, and is eliminated in the south by younger, deeply eroded Kimberley Channels. The C Reef also contains two economic conglomerates, although the lowermost conglomerate is only preserved as small remnants.

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Mineral Resource

Metric

**Imperial** 

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg) (000s)

(oz/t)

(000s)

Kopanang – Crystalkop Reef

Measured

144

10.65

1,529

158

0.311

49

Indicated

174

11.80

2,055

192

0.344

66

Inferred

878

13.78

12,104

968

0.402

389

Total

1,196

13.12

15,688

1,319

0.383

504

Kopanang - Vaal Reef

## Measured 3,875 21.17 82,060 4,272 0.618 2,638 Indicated 13,170 13.80 181,687 14,518 0.402 5,841 Inferred 835 13.52 11,290 921 0.394 363 Total 17,881 15.38 275,037 19,710 0.449 8,843 Kopanang – Measured 4,019 20.80 83,589 4,430 0.607 2,687 **Total Mineral Resource** Indicated 13,345 13.77 183,743 14,710 0.402 5,907 Inferred

1,714 13.65 23,394 1.889 0.398 752

Total 19,077 15.24 290,725 21,029 0.444 9,347 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t) tonnes (Mt) (oz/t)(Moz) Kopanang Measured 0.5 30.41 13.8 0.5 0.887 0.4 Indicated 4.2 11.12 46.3 4.6 0.324 1.5 Inferred 1.7 13.65 23.4 1.9 0.398 0.8 Total

6.313.19

83.5
7.0
0.385
2.7
The VR in the western portion of the mine lease (Gencor 1E area) forms a potential mineable area. Approximately 20% to 30% of the exclusive Mineral
Resource is expected to be taken up in safety and remnant pillars ahead of current mining.
0
200
400
600
800m
Geological section of shaft pillar area

South Africa operations: Kopanang continued

23 Kopanang: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 9.9 11.0 2006 -0.7 Depletion 0.0 Gold price 0.0 Other 0.8 Exploration 9.3 2007 -0.5 Cost 10.9 8.9 7.9 6.9 -1.3 Methodology Change Kopanang: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 4.8 2006 4.3 2007 -0.1 Model change -0.5 Depletion 4.4 3.8 0.0 Scope change Change

4.6 4.2 4.0

Kopanang – Metric

# Tonnes above cut-off (millions) 0.00 3.81 0.00 Cut-off grade (g/t) 17.16 Ave grade above cut-off (g/t) 27.21 25.69 22.63 21.11 18.05 16.53 15.00 15.26 13.35 11.44 9.53 7.63 5.72 1.91 12.00 19.58 24.16 28.74 2.00 19.07 16.00 20.00 8.00 4.00 6.00 10.00 14.00 18.00 30.27 Tonnes above cut-off Ave grade above cut-off Tons above cut-off Ave grade above cut-off Kopanang – Imperial Tons above cut-off (millions) 0.00

0.29 0.41 0.47

0.12 0.35 16.82 0.00 0.53 Cut-off grade (oz/t) 21.02 18.92 Ave grade above cut-off (oz/t) 0.88 0.79 0.71 0.62 0.53 0.44 0.35 0.00 0.26 0.18 0.09 14.71 12.61 10.51 8.41 6.31 4.20 2.10 0.06 0.18 0.23 0.58 Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)

(oz/t) (000s)

### Kopanang – Crystalkop Reef Proved 108 4.23 458 119 0.124 15 Probable 167 4.74 791 184 0.138 25 Total 275 4.54 1,249 303 0.132 40 Kopanang – Vaal Reef Proved 5,263 8.43 44,375 5,802 0.246 1,427 Probable 13,499 6.62 89,403 14,880 0.193 2,874 Total 18,762 7.13 133,778 20,681 0.208 4,301 Kopanang – Total Ore Reserve Proved 5,371 8.35 44,833 5,921

0.243

1,441 Probable 13,665 6.60 90,193 15,064 0.193 2,900 Total 19,037 7.09 135,027 20,984 0.207 4,341 Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource S Kelly **PLATO** MS0095 23 years Ore Reserve J vZ Visser

PLATO PMS0119 21 years

Grade tonnage information

24

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Moab Khotsong

Moab Khotsong, which is still in development, lies to the south of and is contiguous with the lease area of Great Noligwa. The Mineral Resource at Moab Khotsong is structurally complex and highly faulted, with large fault-loss areas. Mining is based on a backfill system combined with bracket pillars. The raise lines are spaced 200m apart on the dip of the reef, with 25m-long panels. Backfill is carried to within four metres of the advancing stope faces and 75% of the total area extracted is likely to be backfilled.

Geology

The Mineral Resource lies between 2,100m and 3,700m below surface, with only limited quantities of ore lying above 2,300m. The principal reef is the VR, as a down-dip extension to the south and south-east of the orebody mined at Kopanang and Great Noligwa mines. The reef is represented by an oligomictic conglomerate and the gold mineralisation is associated with carbon. The VR package can reach a maximum thickness of over two metres and consists of a thin basal conglomerate (the C Facies) and a thicker sequence of upper conglomerates (the A Facies), separated by internal quartzite (the B Facies). The C Reef is preserved in the northern part of the mine where the reef has been intersected by a number of boreholes. No development or stoping has taken place on the C Reef at Moab Khotsong.

South Africa operations: Moab Khotsong

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Project Zaaiplaats 2

Project Zaaiplaats 2 (PZ2) is situated at Moab Khotsong in the Vaal River Region of AngloGold Ashanti's South African operations. Moab Khotsong is the newest mine in the region and the PZ2 project is aimed at optimally extracting the deeper portion (lower mine) of the VR at Moab Khotsong.

Investigations into extracting this block of ground have been underway for several years but unfavourable market conditions have delayed the initiation of mining in this deeper block of ground (up to 3,500m below surface). The PZ2 project is planned to extend the life of Moab Khotsong for another 25 years until the mid 2030's. The project also allows other opportunities (mining and metallurgical) to come to the fore that would otherwise have been uneconomic.

The orebody is accessed through twin double-declines angled at 8°, the upper and lower declines, from which five production levels will originate. These will allow two attacking points into the orebody, as well as provide sufficient ventilation capacity. One of the lower declines will be a dedicated ore-handling system via a conveyor belt; each of the decline sets will have a dedicated men and material decline using chairlifts and a monorail; and the remaining upper decline will carry the majority of the services into the orebody. Shaft bottom will be situated at 4,027m below datum (3,509m below collar).

It is estimated that there are currently 3.5 million ounces of Ore Reserves within the orebody of the lower mine area. Further opportunities exist around the main block, but additional exploration will be required before these reserves can be published.

Brownfields exploration

Brownfields exploration is currently focused on improving geological confidence in:

the eastern, western and northern boundaries of the upper mine block:

the internal structure of the upper mine block; and the lower mine block (Project Zaaiplaats 2).

Surface borehole MGR7 was completed during the year and the original cluster had a value of 715 cm.g/t over 46.4 cm whilst the long deflection cluster had a value of 1,474 cm.g/t over 79.2 cm. A long deflection was drilled from LIB13 and confirmed the location of both the cut-off and MKF1 faults and also indicated the presence of a large block of ground between 95 and 101 levels. LIB 9 commenced drilling from 92 level to test the structure interpretation between surface boreholes CY1 and MCY2 and is currently still in progress. The four surface boreholes and one LIB hole (MCY4, MCY5, MZA9, MMB5 and LIB9) are currently in progress and it is planned to commence with two further LIB holes (LIB4 and LIB10) in the new year.

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

- -2950m
- -3300m
- -3050m
- -3100m
- -3150m
- -3200m
- -3250m
- -3300m
- -3350m
- -3400m
- -3450m
- -3500m
- -3550m
- -3600m
- -3650m
- -3700m
- -3750m
- -3800m
- -3850m

-3900m 88 Level 87 Level 92 Level 95 Level 98 Level 101 Level 102 Level Die Hoek Fault Cut Off Fault **GE8** Fault **Buffels East Fault** January 2007 Section 103 Line CY1 Fult Vaal Reef 85 Level Reef Target Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Moab Khotsong - Vaal Reef Measured 1,448 14.28 20,688 1,597 0.417 665 Indicated 16,999 19.08 324,284

18,738 0.556

10,426 Inferred 4,288 19.58 83,960 4,727 0.571 2,699 Total 22,735 18.87 428,932 25,062 0.550 13,790 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Moab Khotsong Measured 0.4 19.56 8.0 0.5 0.571 0.3 Indicated 2.9 14.37 41.3 3.2 0.419 1.3

Inferred 4.3

19.58 84.0 4.7 0.571 2.7 Total 7.6 17.60 133.3 8.3 0.513

Geological section through 103 line

South Africa operations: Moab Khotsong continued

27 Moab Khotsong: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 11.5 2006 -0.1 Depletion 0.4 Gold price 1.9 Other 0.0 Exploration 13.8 2007 0.0 Cost 13.4 12.4 11.4 0.0 Methodology Change Mineral Resource below infrastructure Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Moab Khotsong

Total 13,562 18.01 244,304 14,950

0.525 7,855 Moab Khotsong: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 3.2 2006 7.0 2007 3.8 Model change -0.1 Depletion 5.1 3.1 0.1 Scope change

Change 6.1 4.1

South Africa operations: Moab Khotsong continued 28 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Moab Khotsong – Vaal Reef Proved 1,153 7.86 9,056 1,271 0.229 291 Probable 20,189 10.29 207,705 22,254 0.300 6,678 Total 21,341 10.16 216,761 23,525 0.296 6,969 Ore Reserve below infrastructure Metric Imperial Au Reserve

Tonnes Grade

Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Moab Khotsong Total 12,357 8.98 110,924 13,621 0.262 3,566 Tonnes above cut-off Ave grade above cut-off Moab Khotsong – Metric Tonnes above cut-off (millions) 0.0 0.0 Cut-off grade (g/t) 20.0 Ave grade above cut-off (g/t) 20.5 19.5 18.5 15.0 10.0 5.0 12.0 19.0 20.0 21.0 2.0 25.0 16.0 20.0 8.0 4.0 6.0 10.0

14.0

18.0 21.5 Tons above cut-off Ave grade above cut-off Moab Khotsong - Imperial Tons above cut-off (millions) 0.00 0.3 0.4 0.1 20.00 0.00 0.5 Cut-off grade (oz/t) 25.00 Ave grade above cut-off (oz/t) 0.62 0.61 0.60 0.59 0.58 0.57 0.55 0.56 15.00 10.00 5.00 0.2 0.6 Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource AC Barnard **PLATO** MTS0077 12 years Ore Reserve J Wall **PLATO** 

PMS0164

26 years Grade tonnage information 29

South Africa operations: Tau Lekoa

Tau Lekoa mine is located about 8km west of the town of Orkney, at the western extreme of the Klerksdorp Goldfields. The mine exploits the VCR at depths varying between 900m and 1,700m below surface. The VCR is the only reef exploited at Tau Lekoa and dips towards the west at an average angle of 30°. Tau Lekoa has a twin shaft system and mines to a depth of 1,650m. Tau Lekoa uses hydropower which has a centralised electro-hydraulic system as its primary source of energy production. Hydropower has been instrumental in improving labour productivity, which has played a vital role in assisting the mine to achieve its business objectives. Geology

The VCR is a gold bearing quartz pebble conglomerate (up to 5m thick) capping the uppermost angular unconformity of the Witwatersrand Supergroup. The topography of the VCR depositional area is uneven, and consists of a series of slopes and horizontal terraces at different elevations. The VCR is deposited over a number of terraces that are separated by slope material. Typically the terrace reef is a thicker, more robust conglomerate unit than the slope material, where hangingwall-footwall conditions may occur. The deepest terraces are the youngest, whereas the oldest terrace occupies a topographical horizon 28m above the youngest terrace. Generally the younger the terrace, the more mature the channel fill. The main channel is the youngest, most mature VCR facies at Tau Lekoa, and extends from the northeast into Tau Lekoa, before turning sharply towards the west. The older middle and upper terraces contain more immature conglomerates with more erratic gold grades.

Tau Lekoa

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Mineral Resource

Metric

**Imperial** 

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Tau Lekoa –

Measured

5,507

5.30

29,166

6,071

0.154

938

Ventersdorp Contact Reef

Indicated

32,266

4.88

157,353

35,567

0.142

5,059

Inferred

2,568

5.98

15,356

2,830

0.174

494

Total

40,341

5.00

201,875

44,468

0.146

6,490

| Exclusive Mineral Resource   |
|--|
| Metric   |
| Imperial   |
| Au   |
| Resource   |
| Tonnes   |
| Grade  |
| Au   |
| Tons   |
| Grade  |
| ounces   |
| Mine/Project   |
| category   |
| (Mt)   |
| (g/t)  |
| tonnes   |
| (Mt)   |
| (oz/t)   |
| (Moz)  |
| Tau Lekoa  |
| Measured   |
| 3.7  |
| 4.97   |
| 18.4   |
| 4.1  |
| 0.145  |
| 0.6  |
| Indicated  |
| 25.3   |
| 4.74   |
| 120.0  |
| 27.9   |
| 0.138  |
| 3.9  |
| Inferred   |
| 2.6  |
| 5.98   |
| 15.4   |
| 2.8  |
| 0.174  |
| 0.5  |
| Total  |
| 31.6   |
| 4.86   |
| 153.8  |
| 34.9   |
| 0.142  |
| 4.9  |
|  |
| The Exclusive Mineral Resource is sensitive to the gold price and a large portion of this Mineral Resource is due to |

the difference in

Mineral Resource and Ore Reserve gold prices. Approximately 20 to 25% of the exclusive Mineral Resource is expected to occur in safety

and remnant pillars ahead of current mining.

10 metre running dyke

5 metre running dyke

GoedenFault

Buffeldoorn Fault

**VCR** 

**VCR** 

Nooitgedacht Fault

Schoonspruit Fault

Ventersdorp

Lavas

Witwatersrand

quartzites and

conglomerates

W

Ε

300 Level

600 Level

900 Level

1050 Level

1200 Level

1350 Level

1500 Level

1650 Level

1704 Level

0

150

300m

W-E section through Tau Lekoa Shaft

South Africa operations: Tau Lekoa continued

31 Tau Lekoa: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 7.1 2006 -0.2 Depletion 0.3 Gold price 0.0 Other -0.2 Exploration 6.5 2007 -0.6 Cost 6.6 5.6 0.0 Methodology Change Tau Lekoa: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 1.3 2006 1.3 2007 0.1 Model change -0.2 Depletion 1.1 0.0 Scope change Change 1.3 Tonnes above cut-off Ave grade above cut-off Tau Lekoa – Metric Tonnes above cut-off (millions)

0.00

11.00

```
15.40 17.60
4.40
13.20
32.27
0.00
19.80
Cut-off grade (g/t)
40.34
36.30
Ave grade
above cut-off (g/t)
20.32
18.62
16.92
15.21
13.51
11.81
5.00
10.11
8.40
6.70
28.24
24.20
20.17
16.14
12.10
8.07
4.03
2.20
6.60 8.80
Tau Lekoa - Imperial
Tons above
cut-off (millions)
0.00
0.29
0.41 0.47
0.12
0.35
35.57
0.00
0.53
Cut-off grade (oz/t)
44.46
40.02
Ave grade
above cut-off (oz/t)
```

0.64 0.58

0.51 0.45 0.39 0.32 0.26 0.00 0.19 0.13 0.06 31.13 26.68 22.23 17.79 13.34 8.89 4.45 0.06 0.18 0.23 0.58 Tons above cut-off Ave grade above cut-off Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Tau Lekoa – Proved 2,362 3.81 8,999 2,603 0.111 289 Ventersdorp Contact Reef

Probable 9,075

3.45 31,263 10,003 0.100 1,005 Total 11,436 3.52 40,262 12,606 0.103 1,294 Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource R Peattie **SACNASP** 400097/01 12 years Ore Reserve

J vZ Visser PLATO PMS0119 21 years

Grade tonnage information

32

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mponeng lies on the West Wits Line, close to Carletonville in the Gauteng Province and about 65km south-west of Johannesburg.

Mining at Mponeng is conducted at an average depth of 2,800m. The mine operates two vertical hoisting shafts, a sub-shaft and two service shafts. The Mponeng lease area is constrained to the north by TauTona and Savuka, but is constrained only by the depth of the ore-body, which is open-ended, towards the south.

Geology

The VCR is the only reef that is currently being mined at Mponeng. The VCR comprises of a quartz pebble conglomerate (up to 3m thick) capping the topmost angular unconformity of the Witwatersrand Supergroup. The footwall stratigraphy partially controls the reef type. Most of the VCR mined lies on footwall strata of the Kimberley Formation, which is relatively argillaceous. More durable quartzites of the Elsburg Formation lie to the west, while the eastern side of the mine is dominated by the Booysens Shale.

Mponeng is also planning to mine the CLR. The CLR at Mponeng is on average a 20cm thick, tabular, auriferous quartz pebble conglomerate formed near the base of the Central Rand Group. The CLR is deeper than the VCR and currently there is an exploration programme drilling to improve resource confidence and confirm geological structures that occur at the lower levels. Of the three economic units that exist for the CLR, the Mponeng CLR target area is dominated by Unit 3 with a smaller portion of Unit 2 towards the east. Unit 2 is a complex channel deposit, and Unit 3 is the oldest of the CLR channel deposits sitting at the base of the package.

South Africa operations: Mponeng

Mponeng

*33* 

Upper Unit

Middle Unit

Lower Unit

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Mponeng – Carbon Leader Reef

Measured

348

46.59

16,217

384

1.359

521

Indicated

21,731

19.70

428,004

23,954 0.574

13,761

Inferred

15,674

16.85

264,185

17,278

0.492

8,494

Total

37,753

18.76

708,407

41,616

0.547

# 22,776 Mponeng – Ventersdorp Measured 5,400 13.94 75,269 5,952 0.407 2,420 Contact Reef Indicated 59,801 8.51 508,831 65,920 0.248 16,359 Inferred Total 65,201 8.96 584,100 71,872 0.261 18,779 Mponeng -Measured 5,748 15.92 91,486 6,336 0.464 2,941 **Total Mineral Resource** Indicated 81,532 11.49 936,835 89,874 0.335 30,120 Inferred 15,674

16.85 264,185 17,278

0.492

8,494

Total

102,955

12.55

1,292,506

113,488

0.366

41,555

Two economically viable reefs are mined in the West Wits area, the shallower VCR, and the deeper CLR. Both have been extensively mined at AngloGold Ashanti's TauTona and Savuka Mines, whilst Mponeng has only mined the VCR. Both reefs can be accessed down to 120 level (3,645m below datum), but there is currently no infrastructure in place that can service stoping operations below 120 level.

Mponeng is in a prime position to exploit the CLR, and had in fact originally been designed with this in mind via its sub-shaft deepening project which commenced in the mid-1990's. Due to economic factors at the time, this sub-shaft was stopped at 120 level in 2000 and is now being used to service the VCR mining operations.

The high-grade CLR below 120 level has remained inaccessible and this represents an enormous opportunity for Mponeng and for AngloGold Ashanti. A project team has been set up to design a "new mine" with the ability to access the CLR via tertiary shafts from Mponeng, enabling the mine to extend its life until at least 2040, and producing gold at its current levels.

The mine has been designed according to the Sequential Grid mining method, a technique developed at Elandsrand and Mponeng in the 1990's whereby stoping grids are pre-developed and reef extracted between dip-stabilising pillars. This method has proved successful in the management of seismicity, both from an overall reduction in seismic energy perspective, as well as from an increased mining flexibility view point. The shafts and infrastructure have been designed to fit the existing shaft system at Mponeng, and have the ability to sustain high levels of production.

The extension of Mponeng via the Carbon Leader Reef Project provides a strong base on which several regional benefits can be realised, as well as enabling other smaller projects to be brought in to match the extended life of the asset and region.

Mponeng Carbon Leader Reef Project

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

**Exclusive Mineral Resource** 

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(Mt)

(g/t)

tonnes

(Mt)

(oz/t)

(Moz)

Mponeng

Measured

4.3

16.20

69.7

4.7

0.472

2.2

Indicated

59.8

9.77

584.3

65.9

0.285

18.8

Inferred

15.7

16.85

264.2

17.3

0.492

8.5

Total

79.8

11.51

918.1

88.0

0.336

29.5

The CLR in the deeper portion of the orebody (below 126 level) and the VCR in the North of the mine lease form potentially mineable areas.

Approximately 35% to 40% of the exclusive Mineral Resource is expected to occur in safety and remnant pillars ahead of current mining.

Mineral Resource below infrastructure

Metric

**Imperial** 

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Mponeng - VCR

below 120 level

Total

8,678

14.23

123,518

9,565

0.415

3,971

Mponeng – CLR

below 120 level

Total

34,553

17.89

618,051

38,088

0.522

19,871

Mponeng

Total

43,231

17.15

741,570

47,654

0.500

23,842

Mponeng: Mineral Resource reconciliation

2006 vs 2007

### Ounces (millions) 24.4 2006 -0.7 Depletion 0.0 Exploration 41.6 2007 4.4 Other 45.0 30.0 20.0 Change 10.6 Gold price 40.0 35.0 4.9 Cost 25.0 -2.4 Methodology Mponeng: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 6.82006 10.1 2007 -0.7 Model change -0.6 Depletion 8.5 5.5 4.7 Scope change Change 9.5 7.5 6.5

South Africa operations: Mponeng continued

35 Tonnes above cut-off Ave grade above cut-off Mponeng – Metric Tonnes above cut-off (millions) 0.00 20.59 0.00 Cut-off grade (g/t) 92.66 Ave grade above cut-off (g/t) 24.99 23.37 2012 18.50 15.25 13.62 12.00 82.36 72.07 61.77 51.48 41.18 30.89 10.30 12.00 16.87 21.75 26.62 102.95 16.00 20.00 8.00 2.00 28.24 4.00 6.00 10.00 14.00 18.00 Tons above cut-off Ave grade above cut-off Mponeng - Imperial

0.00

Tons above cut-off (millions)

0.29 0.41 0.47 0.12 0.35 90.79 0.00 0.53 Cut-off grade (oz/t) 113.49 102.14 Ave grade above cut-off (oz/t) 0.82 0.74 0.66 0.58 0.49 0.41 0.33 0.00 0.25 0.16 0.08 79.44 68.09 56.74 45.40 34.05 22.70 11.35 0.06 0.18 0.23 0.58 Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)

(oz/t)(000s)Mponeng – Carbon Leader Reef Proved Probable 10,212 12.30 125,622 11,257 0.359 4,039 Total 10,212 12.30 125,622 11,257 0.359 4,039 Mponeng – Ventersdorp Proved 2,063 9.85 20,320 2,274 0.287 653 Contact Reef Probable 22,081 7.69 169,882 24,340 0.224 5,462 Total 24,144 7.88 190,202 26,614 0.230 6,115 Mponeng – Total Proved 2,063

9.85

20,320 2,274 0.287 653 Probable 32,293 9.15 295,504 35,597 0.267 9,501 Total 34,356 9.19 315,824 37,871 0.268 10,154 Ore Reserve below infrastructure Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Mponeng – VCR below 120 level Total 7,162 9.70 69,447 7,895 0.283 2,233 Mponeng – CLR below 120 level Total 10,211 12.30 125,622 11,256

0.359 4,039

Mponeng

Total

17,374

11.07

195,070

19,152

0.327

6,272

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

**RK** Lavery

**SACNASP** 

144/89

26 years

Ore Reserve

R Brokken

**PLATO** 

PMS0171

26 years

Grade tonnage information

36

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 South Africa operations: Savuka

Savuka

The Savuka mine is located about 18km south of the town of Carletonville, in the West Wits Goldfields. The mine exploits the CLR at depths varying between 2,600m and 3,500m below surface. The VCR, which on average is about 700m above the CLR is also exploited at Savuka, but to a lesser extent than the CLR. A combination of mining methods is used: longwall, conventional and sequential grid mining.

Geology

The CLR is a thin, on average 20cm thick, tabular, auriferous quartz pebble conglomerate formed near the base of the Central Rand Group. The CLR has been divided into three stratigraphic units. Economically the most important unit is Unit 1 which is present as a sheet-like deposit over the whole mine. Unit 2 is a complex channel deposit that is only present along the western most limit of the current mining at Savuka. The reef may be over two metres thick where Unit 2 is developed. Unit 3 is preserved below Unit 1 in the southern parts of Savuka and is the oldest of the CLR conglomerates. Production levels on the VCR at Savuka are not as high as on the CLR, with about 15% to 20% of the tonnage coming from the VCR. The VCR comprises of a quartz pebble conglomerate (up to 5m thick) capping the topmost angular unconformity of the Witwatersrand Supergroup. The topography of the VCR depositional area is uneven, and consists of a series of slopes and horizontal terraces at different elevations. It sub-outcrops against the base of the Ventersdorp Lavas in a direction parallel to strike across the north-western part of the lease area.

37 Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t) (000s)Savuka -Measured 467 15.09 7,054 515 0.440 227 Carbon Leader Reef Indicated 4,408 15.36 67,719 4,859 0.448 2,177 Inferred Total 4,875 15.34 74,773 5,374 0.447 2,404

Savuka -

# Measured 183 15.49 2,839 202 0.452 91 Ventersdorp Contact Reef Indicated 269 13.87 3,733 297 0.405 120 Inferred Total 452 14.53 6,572 499 0.424 211 Savuka -Measured 651 15.20 9,893 717 0.443 318 **Total Mineral Resource** Indicated 4,677 15.28 71,452 5,155 0.446 2,297 Inferred

Total 5,328 15.27 81,345 5,873 0.445 2,615 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Savuka Measured 0.6 15.09 9.2 0.7 0.440 0.3 Indicated 2.6 15.69 41.5 2.9 0.458 1.3 Inferred

Total 3.3

15.58 50.7 3.6 0.454 1.6 The exclusive Mineral Resource is sensitive to the gold price and a large portion of this Mineral Resource is due to the difference in Mineral Resource and Ore Reserve gold prices. Approximately 40% of the exclusive Mineral Resource is expected to occur in safety and remnant pillars ahead of current mining. Savuka: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 2.2 2006 -0.1 Depletion 0.2 Gold price 0.4 Other 0.2 Exploration 2.6 2007 -0.2 Cost 2.5 1.9 0.0 Methodology Change 2.3 2.1 Savuka Ore Reserve Reconciliation 2006 vs 2007 Ounces (millions) 0.2 2006 0.7 2007 Model change -0.1 Depletion 0.5 0.1 0.6

Scope change

Change

0.6

0.4

0.3

0.7

0.2

38 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Savuka - Metric Tonnes above cut-off (millions) 0.00 1.05 0.00 Cut-off grade (g/t) 4.70 Ave grade above cut-off (g/t) 23.77 22.67 20.48 19.38 17.19 16.10 15.0 4.18 3.66 3.14 2.61 2.09 1.57 0.52 18.29 21.58 24.87 5.23 16.00 8.00 2.00 4.00 6.00 10.00 12.00 14.00 18.00 20.00 Tonnes above cut-off Ave grade above cut-off Savuka - Imperial Tons above cut-off (millions) 0.00 0.29 0.41 0.47 0.12 0.35 4.61

0.00

0.53 Cut-off grade (oz/t) 5.76 5.18 Ave grade above cut-off (oz/t) 0.76 0.68 0.61 0.53 0.45 0.38 0.30 0.00 0.23 0.15 0.08 4.03 3.46 2.88 2.30 1.73 1.15 0.58 0.06 0.18 0.23 0.58 Tons above cut-off Ave grade above cut-off Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)

Savuka – Proved

31 5.86 180 34 0.171 6 Carbon Leader Reef Probable 3,130 6.61 20,683 3,450 0.193 665 Total 3,161 6.60 20,862 3,484 0.193 671 Savuka – Proved 34 9.12 310 37 0.266 10 Ventersdorp Contact Reef Probable 33 7.83 256 36 0.228 8 Total 67 8.48 565 73 0.247 18 Savuka -Proved 65 7.57 489

71 0.221

16

Total Ore Reserve

Probable

3,163

6.62

20,938

3,486

0.193

673

Total

3,227

6.64

21,428

3,558

0.194

689

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

**RK** Lavery

**SACNASP** 

144/89

26 years

Ore Reserve

R Brokken

**PLATO** 

PMS0171

26 years

Grade tonnage information

South Africa operations: Savuka continued

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South Africa operations: TauTona

TauTona lies on the West Wits Line, close to Carletonville in Gauteng and about 70km south-west of Johannesburg. Mining at TauTona takes place at depths ranging from 1,800m to 3,500m, where the world's deepest stoping section is found. The mine has a main shaft system as well as a secondary and a tertiary shaft. It is predominantly a long-wall operation.

#### Geology

The CLR is a thin, on average 20cm thick, tabular, auriferous quartz pebble conglomerate formed near the base of the Central Rand Group. The CLR has been divided into three stratigraphic units. Economically the most important unit is Unit 1, which is present as a sheet-like deposit over the whole mine, although the reef development and grades tend to drop off very rapidly where Unit 1 overlies Unit 2. Unit 2 is a complex channel deposit that is only present along the easternmost limit of the current mining at TauTona mine. The reef may be over two metres thick where Unit 2 is developed. Unit 3 is preserved below Unit 1 in the southern parts of TauTona and is the oldest of the CLR conglomerates.

Production levels on the VCR at TauTona are currently limited, amounting to less than 10% of total production volumes. The VCR comprises of a quartz pebble conglomerate (up to 5m thick) capping the topmost angular unconformity of the Witwatersrand Supergroup. The topography of the VCR depositional area is uneven, and consists of a series of slopes and horizontal terraces at different elevations. TauTona

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Surface +1829m arial

Ventersdorp Contact Reef

Lower Carbon Leader

Upper carbon leader

Main shaft

Sub vertical shaft

Tertiary vertical shaft

66 level -1822m BC. +7m arial

Carbon Leader Reef

100 level -2869m BC. +1030m arial

120 level 3476m BC. -1647m arial

sea level

N

S

Schematic section through TauTona shaft system

Mineral Resource

Metric

Imperial

Au

Resource

**Tonnes** 

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

TauTona –

Measured

673

23.59

15,875

742

0.688

510

Carbon Leader Reef

Indicated

9,143

27.58

252,116

10,078

0.804

# 8,106 Inferred Total 9,815 27.30 267,990 10,820 0.796 8,616 TauTona – Measured 417 9.73 4,061 460 0.284 131 Ventersdorp Contact Reef Indicated 773 11.80 9,113 852 0.344 293 Inferred Total 1,190 11.07 13,175 1,312 0.323 424 TauTona – Measured 1,090 18.29

19,936 1,202

0.533 641 **Total Mineral Resource** Indicated 9,915 26.35 26,229 10,930 0.768 8,399 Inferred Total 11,005 25.55 281,165 12,131 0.745 9,040

South Africa operations: TauTona continued

41 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) TauTona Measured 0.8 17.49 13.4 0.8 0.510 0.4 Indicated 3.7 22.58 83.9 4.1 0.659 2.7 Inferred Total 4.5 21.71 97.3 4.9 0.633 Approximately 40% of the exclusive Mineral Resource is expected to occur in safety and remnant pillars ahead of current mining.

### Mineral Resource below infrastructure Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)TauTona -Below infrastructure Total 3,572 33.60 120,001 3,937 0.980 3,858 TauTona: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 11.3 2006 -0.5 Depletion 0.0 Gold price 0.0 Other 0.3 Exploration 9.0 2007 0.0 Cost 9.5 6.5 -2.1 Metho-

dology

### Change 11.5 10.5 8.5 7.5 TauTona: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 5.0 2006 4.6 2007 0.0 Model change -0.4 Depletion 1.1 0.0 Scope change

Change 4.6 4.8 4.4

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K South Africa operations: TauTona continued 42 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)TauTona -Proved 201 12.51 2,512 221 0.365 81 Carbon Leader Reef Probable 11,971 11.07 132,494 13,196 0.323 4,260 Total 12,172 11.09 135,007 13,417 0.324 4,341 TauTona – Proved

357 7.44 2,654 393

0.217 85 Ventersdorp Contact Reef Probable 758 7.61 5,771 836 0.222 186 Total 1,115 7.56 8,425 1,229 0.220 271 TauTona – Proved 557 9.27 5,166 614 0.270 166 Total Ore Reserve Probable 12,729 1086 138,265 14,032 0.317 4,445 Total 13,287 10.80 143,432 14,646 0.315 4,611 Ore Reserve below infrastructure Metric Imperial Au Reserve Tonnes Grade Au Tons

Grade ounces

### Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)TauTona Total 4,542 13.71 62,267 5,007 0.400 2,002 Tonnes above cut-off Ave grade above cut-off TauTona – Metric Tonnes above cut-off (millions) 0.00 10.00 14.00 16.00 4.00 12.00 8.74 0.00 18.00 Cut-off grade (g/t) 10.93 9.83 Ave grade above cut-off (g/t) 38.33 36.85 35.37 33.89 32.41 30.92 29.44 26.48 25.00 7.65 6.56 5.46

4.37 3.28 2.19

1.09 2.00 6.00 8.00 20.00 TauTona – Imperial Tons above cut-off (millions) 0.00 0.29 0.41 0.47 0.12 0.35 9.64 0.00 0.53 Cut-off grade (oz/t) 12.04 10.84 Ave grade above cut-off (oz/t) 1.16 1.05 0.93 0.81 0.70 0.58 0.46 0.00 0.35 0.23 0.12 8.43 7.23 6.02 4.82 3.61 2.41 1.20 0.06 0.18 0.23 0.58 Tons above cut-off Ave grade above cut-off Competent persons Professional Registration Relevant Type

Name

organisation

number

experience

Mineral Resource

R Orton

**PLATO** 

MS0096

23 years

Ore Reserve

MW Armstrong

PLATO

MS0054

22 years

Grade tonnage information

43 South Africa operations: Surface Surface Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)(oz/t) (000s)Vaal River Surface Measured Indicated 417,886 0.37 155,277 460,640 0.011 4,992 Inferred 5,017 0.69 3,454 5,531 0.020 111 Total 422,903 0.38 158,730 466,171

0.011 5,103

# West Wits Surface Measured Indicated 161,500 0.25 40,538 178,023 0.007 1,303 Inferred 6,830 0.62 4,208 7,528 0.018 135 Total 168,329 0.27 44,746 185,551 0.008 1,439 **Total Mineral Resource** Measured Indicated 579,385 0.34 195,814 638,663 0.010 6,296 Inferred 11,847 0.65 7,661 13,059

0.090 246

Total 591,232 0.34 203,476 651,722 0.010 6,542

44 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Vaal River Surface: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 4.6 2006 0.2 Depletion 0.5 Gold price 0.1 Other 0.1 Exploration 5.1 2007 0.0 Cost 4.5 3.5 0.0 Methodology Change 5.5 5.0 4 West Wits Surface: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 0.7 2006 0.0 Depletion 0.9 Gold price 0.0 Other -0.1 Exploration 1.4 2007 0.0 Cost 1.0

0.6 0.0 Metho-

# dology Change 1.4 1.2 0.8 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Vaal River Surface Measured Indicated 298.2 0.29 87.5 328.7 0.009 2.8 Inferred 5.0 0.69 3.5 5.5 0.020 0.1 Total 303.2 0.30

91.0 334.2

0.009 2.9 West Wits Measured Indicated 161.5 0.25 40.5 178.0 0.007 1.3 Inferred 6.8 0.62 4.2 7.5 0.018 0.1 Total 168.3 0.27 44.7 185.6 0.008 1.4 **Total Exclusive** Measured Mineral Resource Indicated 459.7 0.54 128.0 506.7 0.016 4.1 Inferred 11.8 1.31

7.7

13.0 0.038 0.3 Total 471.5 0.57 135.7 519.8 0.017 4.4 The exclusive Mineral Resource comprises largely of tailings storage facilities. Ore Reserve Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t) (000s)Vaal River Surface Proved Probable 118,715 0.50 59,858 130,861 0.015 1,924 Total 118,715 0.50 59,858 130,861 0.015

1,924

South Africa operations: Surface continued

45

Vaal River Surface: Ore Reserve reconciliation

2006 vs 2007

Ounces (millions)

1.9

2006

1.9

2007

0.1

Model

change

-0.1

Depletion

1.8

0.0

Scope

change

Change

2.0

1.5

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

T Flitton

**SACNASP** 

400277/06

6 years

Ore Reserve

J vZ Visser

**PLATO** 

PMS0119

21 years

46

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Argentina operations: overview

Operations

**ARGENTINA** 

**Buenos Aires** 

Bahia Blanca

Cerro Vanguardia

Puerto San Julián

Santa Fe

Cordoba

Rio Gallegos

0

1000km

AngloGold Ashanti has a single operation

in Argentina, the Cerro Vanguardia mine,

which is a joint venture with Formicruz (the

province of Santa Cruz). The province of

Santa Cruz holds 7.5% and the remaining

92.5% belongs to AngloGold Ashanti.

Mineral Resource and Ore Reserve gold price and exchange rates

Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

550

Exchange rate – Argentina

AR/US\$

3.04

6.50

Mineral Resource and Ore Reserve comparison by operation (attributable)

Gold content (million ounces)

% change

% change

from

from 2006

Net diff

2006

Percentage

Other

before

after

after

Mine/Project

attributable

Category 2006 Depletion(1) change(2) depletion 2007 depletion depletion Comments Cerro Vanguardia 92.5% Resource 3.689 (0.193)0.003 0% 3.499 (0.190)(5%) Depletion Reserve 1.568 (0.232)0.543 35% 1.879 0.311 20% Additional pits plus the effects of a higher gold price offset the depletion Argentina Totals Resource 3.689 (0.193)0% 3.499 0.003 (0.190)(5%)

Reserve 1.568

0.543

(0.232)

35% 1.879

0.311

20%

- 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.
- 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change.

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Details of average drill-hole spacing and type in relation to Mineral Resource classification Type of Drilling

Mine/Project

Category

Spacing

Diamond

RC

Other

Comments

m(-x-)

Cerro

Measured

12.5 x 5

Vanguardia Indicated

25 x 10

Inferred

40 x 15

Grade/ore

control

12.5 x 5

The Mineral Resource estimates are computed using the relevant computer modules of Datamine®software package. The geological model is a critical input to the Mineral Resource estimation process. The orebody boundaries for each geological entity (veins, stock work, wall rock) are defined from the detailed logging of all geological bore holes and after validation this information is used in the system to create a three dimensional model. This model is subsequently populated with a 5 x 25 x 5m (X by Y by Z) block model. The block sizes used are chosen to represent the dimensions in which the deposit is intended to be mined. Volumetric measurements of the orebody are subsequently computed in the system using the relevant block dimensions. Ordinary kriging is used to perform the grade interpolation. Field tests are conducted to determine appropriate in-situ densities. The mining of a specific area of the orebody is surveyed and an accurate measurement of the corresponding mass associated with the mining area is recorded. The in-situ density is then computed by dividing the mass by the surveyed volume. Using the volume, grade and density information, the Mineral Resource estimates are computed for the individual orebodies.

Ore Reserve estimation

The appropriate Mineral Resource models are used as the basis for Ore Reserves. All relevant modifying factors such as mining dilution

and costs are used in the Ore Reserve conversion process. This is based on the original block grades and tonnage and includes waste material (both internal and external). Appropriate Ore Reserve cut-off grades are applied and all blocks above this cut-off are reported. For the reserve optimisation, Whittle®software was used and Datamine® software was utilised to design the pits.

Ore Reserve modifying factors (as at 31 December 2007)

Mineral Resource

Ore Reserve

cut-off

cut-off

Metal-

grade

grade

Dilution

(1)

lurgical

Other

Mine/Project

g/t (Au)

g/t (Au)

%

recovery

factor

Cerro Vanguardia

1.89

2.1

95.02

n/a

1. There is 50cm of dilution on each side of the quartz vein.

Mineral Resource estimation

48

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Argentina operations: Cerro Vanguardia

Cerro Vanguardia

The Cerro Vanguardia property is located 160km north-west of Puerto San Julian. The property is situated within the southern Deseado Masive. Geology

The oldest rocks in this part of Patagonia are of Precambrian-Cambrian age. These are overlain by Permian and Triassic continental clastic rocks which have been faulted into a series of horsts and grabens, and are associated with both limited basaltic sills and dykes and with calc-alkaline granite and granodiorite intrusions. Thick andesite flows of Lower Jurassic age occur above these sedimentary units. A large volume of rhyolitic ignimbrites was emplaced during the Middle and Upper Jurassic age over an area of approximately 100,000km

2

. These volcanic rocks include the Chon Aike formation ignimbrite units that host the gold-bearing veins at Cerro Vanguardia. Post-mineral units include Cretaceous and Tertiary rocks of both marine and continental origin, the Quaternary La Avenida formation, the Patagonia gravel and the overlying La Angelita basalt flows. These flows do not cover the area of the Cerro Vanguardia veins. Gold and silver mineralisation at Cerro Vanguardia occurs within a vertical range of about 150m to 200m, in a series of narrow, banded quartz veins that occupy structures within the Chon Aike ignimbrites. These veins form a typical structural pattern related to major northsouth (Concepcion) and east-west (Vanguardia) shears. Two sets of veins have formed in response to this shearing one set strikes about N40W and generally dips  $65^{\circ}$  to  $90^{\circ}$  to the east while the other set strikes about N75W and the veins dip 60° to 80° to the south. They are typical of epithermal, low-temperature, adularia-sericite character and consist primarily of quartz in several forms as massive quartz, banded chalcedonic quartz and quartz-cemented breccias. Dark bands in the quartz are due to finely disseminated pyrite, now oxidised to limonite. The veins show sharp contacts with the surrounding ignimbrite, which hosts narrow stockwork zones that are weakly mineralised, and appear to have been cut by a sequence of north-east trending faults that have southerly movement with no appreciable lateral displacement.

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Inferred Mineral Resource in pit optimisation

Inferred Mineral Resources were used in the pit optimisation process and 0.085 million ounces are present in the optimised pit.

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Cerro Vanguardia -

Measured

9,638

0.76

7,347

10,624

0.022

236

Stockpile Full Grade

Indicated

12,161

0.60

7,356

13,405

0.018

237

Inferred

1,451

0.61

878

1,599

0.018 28

Total

23,249

0.67

15,581

25,628

0.020 501 Cerro Vanguardia – Measured 1,434 8.04 11,535 1,580 0.235 371 Vein Mineral Resources Indicated 8,984 7.95 71,439 9,903 0.232 2,297 Inferred 1,452 7.09 10,290 1,601 0.207 331 Total 11,870 7.86 93,263 13,084 0.229 2,998 Cerro Vanguardia – Measured 11,071 1.71 18,882 12,214 0.050 607 Total Mineral Resource Indicated 21,145 3.73 78,795 23,308 0.109 2,533 Inferred 2,903

3.85

11,168 3,200 0.112 359 Total 35,119 3.10 108,845 38,712 0.090 3,499 Mineral Resource by-product: Silver (Ag) Metric Imperial Resource Tonnes Grade Ag Tons Grade Ag Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Cerro Vanguardia Measured 11.1 27.15 300.5 12.2 0.792 9.7 Indicated 21.1 67.94 1,436.6 23.3 1.982 46.2 Inferred 2.9 65.77 190.9 3.2

1.918 6.1

Total 35.1 54.90 1,928.1 38.7 1.601 62.0 Ore Reserve Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)(oz/t) (000s)Cerro Vanguardia – Proved 46 4.32 197 50 0.126 Stockpile Full Grade Ore Probable Total 46 4.32 197 50 0.126 Cerro Vanguardia –

Proved

998 6.17 6,153 1,100 0.180 198 Vein Mineral Resources Probable 7,917 6.58 52,082 8,727 0.192 1,674 Total 8,915 6.53 58,235 9,828 0.191 1,872 Cerro Vanguardia – Proved 1,044 6.08 6,349 1,150 0.177 204 **Total Ore Reserves** Probable 7,917 6.58 52,082 8,727 0.192 1,674 Total 8,961 6.52

58,432 9,878 0.190 1,879

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Argentina operations: Cerro Vanguardia continued

Cerro Vanguardia: Mineral Resource reconciliation

2006 vs 2007

Ounces (millions)

3.7

2006

-0.2

Depletion

0

Gold price

-0.2

Other

0.3

Explo-

ration

3.5

2007

0

Cost

3.4

3.0

0

Metho-

dology

Change

3.8

3.6

3.2

Cerro Vanguardia: Ore Reserve reconciliation

2006 vs 2007

Ounces (millions)

1.6

2006

1.9

2007

0.2

Model

change

-0.2

Depletion

1.3

0.3

Scope

change

Change

1.7

1.5

Cerro Vanguardia - Metric

# Tonnes above cut-off (millions) 0.00 6.59 0.00 Cut-off grade (g/t) 29.67 Ave grade above cut-off (g/t) 15.84 14.74 12.53 11.42 9.21 8.11 7.00 26.37 23.08 19.78 16.48 13.19 9.89 3.30 4.00 8.00 10.32 13.63 16.95 1.00 2.00 3.00 6.00 7.00 9.00 32.97 5.00 10.00 Tonnes above cut-off Ave grade above cut-off Tons above cut-off Ave grade above cut-off Cerro Vanguardia – Imperial Tons above cut-off (millions) 0.00 0.15 0.20 0.23 0.06

0.18

29.07 0.00 0.26 Cut-off grade (oz/t) 36.34 32.71 Ave grade above cut-off (oz/t) 0.53 0.47 0.42 0.37 0.32 0.26 0.21 0.00 0.16 0.11 0.05 25.44 21.80 18.17 14.54 10.90 7.27 3.63 0.03 0.09 0.12 0.29 Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource AHM Silva AusIMM 224831 9 years Ore Reserve ER Lopez **PLATO** CPG2353 13 years Ore Reserve by-product: Silver (Ag)

Reserve

Tonnes Grade Ag Tons Grade Ag Mine/Project category (Mt) (g/t) tonnes (Mt) (oz/t)(Moz) Cerro Vanguardia Proved 1.0 71.37 74.5 1.2 2.081 2.4 Probable 7.9 112.25 888.7 8.7 3.274 28.6 Total 9.0 107.49 936.2

Grade tonnage information

9.9 3.135 31.0 51

AngloGold Ashanti owns 100% of Sunrise Dam gold mine. AngloGold Ashanti has a 33.33% interest in Boddington with joint venture partner Newmont Mining Corporation holding 66.67%. Boddington gold mine is managed by the BGM Management Company Pty Ltd (BGMMCo), which is now 100% owned by Newmont. The management of the company reports to a joint venture executive committee, which controls the joint venture.

The Tropicana Project is a joint venture with Independence Group NL (IGO) in which AngloGold Ashanti Australia Limited (AGAA) holds 70% and free carries IGO to the end of pre-feasibility.

Operations/projects

**AUSTRALIA** 

Sunrise

Dam

Boddington

Canberra

Darwin

Western

Australia

Brisbane

Sydney

Melbourne

Adelaide

Perth

Kalgoorlie

Laverton

Tasmania

Tropicana

0

800km

The Australian assets (formerly

Acacia Resources Ltd) were acquired

at the end of 1999 and comprise of

Sunrise Dam and Boddington gold

mines and now the Tropicana

Project

Mineral Resource and Ore Reserve gold price and exchange rates

Sunrise Dam Gold Mine

Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

550

Exchange rate – Australia

US\$/Aus\$ 0.71 0.73 **Boddington Gold Mine** Units 2007 2006 Mineral Resource gold price US\$/oz 700 650 Ore Reserve gold price US\$/oz 575 500 Exchange rate – Australia US\$/Aus\$ 0.77 0.74 Australia operations: overview Ore Reserve modifying factors (as at 31 December 2007) Cut-off Metallurgical grade Dilution (1) recovery Other Mine/Project g/t (Au) % factor factor Boddington 0.32 (2) n/a 81.6% (3) n/a Sunrise Dam open pit 1.0 n/a 83.5% n/a Sunrise Dam underground 1.5

(4) 19.5

- (5)
- 91%
- (5)

n/a

- 1. Where no dilution factor is indicated the dilution is inherent in the resource model estimate.
- 2. Cut-off is based on a net smelter return of A\$8.28/t which approximates to 0.4g/t Au over LOM.
- 3. LOM average metallurgical recovery for copper is 82.7%.
- 4. Targeting average grade.
- 5. Average across pit designs.

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Details of average drill-hole spacing and type in relation to Mineral Resource classification

Type of Drilling

Mine/Project Category

Spacing

Diamond

**RC** 

Other

Comments

m(-x-)

Boddington

Measured

25 x 25

Mineral Resources were classified using a combination of drill-hole spacing, number of samples in estimate and average distance to samples.

Indicated 50 x 50

Inferred 100 x 200

Grade/ore control Not applicable. Sunrise Dam Measured 10 x 10 and

Mineral Resources were classified using a  $25 \times 25$  combination of drill-hole spacing, number of samples in estimate, average distance to samples and confidence in geological interpretation/estimate. Indicated  $20 \times 20$  and

40 x 40 Inferred 50 x 100 Grade/ore 6 x 6 and

Blastholes were historically used for control 10 x 10

grade control in Sunrise Pit by Placer.

Ore Reserve estimation

The Ore Reserve is estimated by Lerch-Grossman pit optimisation using the relevant Mineral Resource models and updated geotechnical and metallurgical parameters and appropriate operating costs. The recoverable gold Mineral Resource model has been estimated either by a geostatistical technique called multiple indicator kriging or uniform conditioning (non-linear geostatistical methods) and reflects the selectivity or selective mining unit (SMU) of the mining equipment that is intended to be used to recover the Mineral Resource within the Ore Reserve pit design.

Modifying factors

The Boddington cut-off grade is formulated on a net revenue basis (Net Smelter Return (NSR)) taking into account gold and copper grade/metal price/recovery. The 0.32g/t COG approximates a life of mine cut-off grade. This represents diorite material and using unit gold/copper prices of A\$750/oz and A\$2.00/lb respectively. This NSR with gold leach and gravity contributions cut-off grade is A\$8.28/t and includes stockpile rehandle mining cost of A\$0.91/t thereby allowing for an elevated cut-off grade strategy over the life of mine and inclusive of an end of mine life rehandle cost.

Mineral Resource and Ore Reserve comparison by operation (attributable) Gold content (million ounces)

% change

% change

from

from 2006

Net diff

2006

Percentage

Other

before

after

after

Mine/Project

attributable

Category

2006 Depletion(1)

change(2)

depletion 2007

depletion

depletion

## Comments Boddington 33.33% Resource 10.290 0.000 (0.011)0% 10.279 (0.011)0% No change. Gains were offset by increased costs Reserve 4.544 0.000 0.998 22% 5.542 0.998 22% The upgrade of Inferred Mineral Resource within the pit shell by drilling Sunrise Dam 100% Resource 3.637 (0.845)0.286 8% 3.078 (0.559)(15%)Depletion was partly offset by gains due to successful exploration Reserve 1.889 (0.665)0.410 22% 1.634 (0.255)(13%)Gains made by the drilling results at Cosmo did not manage to offset depletion Tropicana 70% Resource 0.000 0.000

2.837 2.837 2.837 0% Successful greenfields exploration Reserve Australia Totals Resource 13.927 (0.845)3.112 22% 16.194 2.267 16% Reserve 6.433 (0.665)1.408 22% 7.176 0.743 12%

- 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.
- 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change.

Australia operations: overview continued

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Australia operations: Boddington

**Boddington** 

The operation is situated approximately 120km south-east of Perth in Western Australia.

Geology

Boddington is located in the Archaean Saddleback greenstone belt in the south-west of Western Australia. The main zone of gold mineralisation occurs reasonably continuously over a strike length of over 5km and a width of about 1km. The previous oxide operation, which closed in 2001, produced approximately 6.1 million ounces over a mine life of 15 years from a lateritic deposit developed over a large basement Mineral Resource. This basement Mineral Resource, beneath the oxide pits, is hosted predominantly by andesitic volcanics and diorites, and contains both gold and copper mineralisation. Construction of the 35.2 Mtpa basement treatment plant is well advanced, with production anticipated to commence late 2008-early 2009.

Mineral Resource estimation

The Mineral Resource and Ore Reserve of the Boddington expansion project have been updated as part of the annual evaluation process by BGMMCo personnel. The geostatistical method of Uniform Conditioning Is used to estimate the Mineral Resource All available geological drill-hole information is validated for use in the models and the local geology of the ore body is used to classify the drill-hole information into appropriate geostatistical domains. Detailed statistical analyses are conducted on each of these domains and this allows for the identification of high grade outliers. If these values are anomalous to the general population characteristics then they are cut back to the appropriate upper limit of the population.

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K Australia operations: Boddington continued 54 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Boddington - Open pit Measured 66,035 0.83 54,479 72,791 0.024 1,752 Indicated 284,781 0.67 191,997 313,917 0.020 6,173 Inferred 126,513 0.58 73,125 139,457 0.017 2,351 Total 477,329

0.67 319,600 526,165 0.020 10,275

# Boddington - Stockpile Measured Indicated 146 0.81 118 161 0.024 4 Inferred Total 146 0.81 118 161 0.024 4 Boddington – Measured 66,035 0.83 54,479 72,791 0.024 1,752 **Total Mineral Resources** Indicated 284,927 0.67 192,115 314,078 0.020 6,177 Inferred 126,513 0.58 73,125

139,457 0.017

2,351 Total 477,475 0.67 319,718 526,326 0.020 10,279 **Exclusive Mineral Resource** Metric Imperial Au Mine/Project Resource Tonnes Grade Au Tons Grade ounces category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Boddington Measured 9.4 0.44 4.1 10.4 0.013 0.1 Indicated 125.1 0.56 70.0 137.9 0.016 2.2 Inferred 126.5 0.58 73.1 139.5 0.017

2.4Total261.1

0.56 147.2 287.8 0.016 4.7 Mineral Resource by-products: Copper (Cu) Mineral Resource category Tonnage (Mt) Grade (ppm) Copper (Mt) Boddington Measured 66.0 1,043 0.069 Indicated 284.9 986 0.281 Inferred 126.5 967 0.122 Total 477.5 989 0.472 Boddington: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 10.3 2006 0.0 Depletion -0.3 Gold price 0.001 Other 0.8 Exploration 10.3 2007 -0.6 Cost 9.5 9.0 0.001 Metho-

dology

# Change 10.5 10.0 Boddington: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 4.5 2006 5.5 2007 0.1 Model change 0.0 Depletion 4.3 0.9 Scope change Change 4.9 5.1

4.75.34.5

55 Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Boddington -Proved 56,631 0.89 50,338 62,425 0.026 1,618 Open pit Probable 159,495 0.76 121,927 175,814 0.022 3,920 Total 216,127 0.80 172,265 238,239 0.023 5,538 Boddington -Proved

# Stockpile Probable 146 0.81 118 161 0.024 4 Total 146 0.81 118 161 0.024 4 Boddington -Proved 56,631 0.89 50,338 62,425 0.026 1,618 **Total Ore Reserves** Probable 159,641 0.76 122,045 175,974 0.022 3,924 Total 216,273 0.80 172,383 238,400 0.023 5,542 Ore Reserve by-products: Copper (Cu) Mine/Project Mineral Resource category Tonnage (Mt) Grade (ppm) Copper (Mt) Boddington Proved 56.6 1,105 0.063 Probable

159.5

1,061 0.169 Total 216.1 1,073 0.232 Boddington - Metric Tonnes above cut-off (millions) 0.00 134.49 0.00 Cut-off grade (g/t) 605.22 Ave grade above cut-off (g/t) 1.27 1.11 0.79 0.64 0.32 0.16 0.00 537.97 470.72 403.48 336.23 268.99 201.74 67.25 0.48 0.84 0.48 0.95 1.43 1.59 0.12 0.24 0.36 0.60 0.72 0.96 672.46 Tonnes above cut-off Ave grade above cut-off Boddington - Imperial Tons above cut-off (millions) 0.00

0.02 0.02 0.03 0.01 0.02 593.01 0.00 Cut-off grade (oz/t) 741.26 667.14 Ave grade above cut-off (oz/t) 0.05 0.04 0.04 0.03 0.03 0.02 0.02 0.00 0.01 0.01 0.00 518.89 444.76 370.63 296.51 222.38 148.25 74.13 0.00 0.01 0.01 Tons above cut-off Ave grade above cut-off Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource K Gleeson AusIMM 202246 Newmont Geology Manager Ore Reserve S Williams

AusIMM 204071 Newmont Engineering Manager Grade tonnage information 56

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Australia operations: Sunrise Dam

Sunrise Dam lies some 220km north-northeast of Kalgoorlie and 55km south of Laverton in Western Australia. The mine is 100% owned by AngloGold Ashanti. The mine comprises a large open-pit operation and an underground project. Mining is carried out by contractors and ore is treated in a conventional gravity and leach process plant. Geology

At Sunrise Dam gold mineralisation is structurally controlled and vein hosted. The style of mineralisation can be differentiated depending on the structure or environment in which it is hosted. There are three dominant domains recognised:

(i)

Shear-related and high strain – e.g. Sunrise Shear Zone,

(ii)

Stock work development in planar faults with brittle characteristics (these occur in all rock types and are commonly concentrated at lithofacies contacts within the volcanic stratigraphy or the porphyry margin and within hinge domains within the magnetite shales) – e.g. Western Shear Zone, Watu, Cosmo, Summercloud; and

(iii)

Placer-style mineralisation hosted within the fluvial sediments. The vein and shear styles of gold mineralisation are introduced primarily during the third and fourth deformation stages and variations in structural style, ore and gangue mineralogy and alteration intensity are observed locally. Secondary (supergene) gold mineralisation is also an important part of the Cleo-Sunrise ore system and is highlighted by extremely high gold grades developed near the base of tertiary paleochannels and horizontal blankets of mineralisation related to iron redox fronts and associated water tables.

Sunrise Dam

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#### Mineral Resource estimation

open-pit estimates are generated using a geostatistical method called multiple indicator kriging. All available geological drill-hole information is validated for use in the models and the local geology of the ore body is used to classify the drill-hole information into appropriate geostatistical domains. Detailed statistical analyses are conducted on each of these domains and this allows for the identification of high grade outliers. If these values are anomalous to the general population characteristics then they are cut back to the appropriate upper limit of the population. Estimation for the underground Mineral Resources uses the geological model boundaries to subdivide all drill-hole data into appropriate domains. Statistical analyses are performed on these domains and in a similar manner to that of open-pit estimation, high grade outliers are identified and appropriately cut back to the upper limit of the population. A geostatistical method called ordinary kriging is used to produce estimates of a pre-determined block size. These block sizes are 10m x 10m and 20m x 20m. The geostatistical technique of Conditional Simulation has been used to estimate the Cosmo ore zone.

Legend

Sandstone / Siltstone

Magnetite Shale

Dolerite / Basalt

Zones of Alteration

Andesite

Volcaniclastic – conglomerate

Coarse – Porphryitic

Intermed. Intrusive

Mineralised Zones

Approx. Generalised Pit shell

Lamprophyre Dykes

Schematic geological section of Sunrise Dam (looking North). Field of view is approximately 2km West to East.

Mineral Resource

Metric

**Imperial** 

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

# Sunrise Dam – Measured Golden Delicious Indicated 1,038 1.84 1,910 1,144 0.054 61 Inferred 2,643 1.64 4,335 2,913 0.048 139 Total 3,681 1.70 6,244 4,058 0.049 201 Sunrise Dam -Measured 20,055 1.63 32,634 22,106 0.047 1,049 Open pit Indicated 2,403 2.67 6,422 2,648 0.078 206 Inferred 15 3.67

56 17

0.107 2 Total 22,472 1.74 39,112 24,772 0.051 1,257 Sunrise Dam – Measured Underground Indicated 5,790 4.73 27,363 6,382 0.138 880 Inferred 2,076 11.09 23,018 2,288 0.323 740 Total 7,866 6.41 50,381 8,670 0.187 1,620 Sunrise Dam -Measured 20,055 1.63 32,634 22,106 0.047 1,049 **Total Mineral Resource** Indicated 9,230

3.87

35,695

10,175

0.113

1,148

Inferred

4,734

5.79

27,409

5,219

0.169

881

Total

34,019

2.81

95,738

37,500

0.082

3,078

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K Australia operations: Sunrise Dam continued 58 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Sunrise Dam Measured 8.1 2.52 20.4 8.9 0.074 0.7 Indicated 4.3 2.99 12.9 4.7 0.087 0.4 Inferred 4.7 5.79 27.4 5.2 0.169 0.9 Total 17.1

3.55 60.6 18.9 0.103 2.0

Sunrise Dam: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 3.6 2006 -0.9 Depletion 0.0 Gold price 0.1 Other 0.0 Exploration 3.1 2007 0.0 Cost 3.0 2.5 0.2 Methodology Change 4.0 3.5 Sunrise Dam: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 1.9 2006 1.6 2007 0.3 Model change -0.7 Depletion 1.0 0.1 Scope change Change 1.5 2.0 Inferred Mineral Resource in pit optimisation Inferred Mineral Resources were used in the pit optimisation process and 0.017 million ounces are present in the optimised pit. Ore Reserve Metric

Imperial

Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)(oz/t) (000s)Sunrise Dam - Open pit Proved 11,982 2.33 27,902 13,208 0.068 897 Probable 1,850 3.11 5,762 2,040 0.091 185 Total 13,832 2.43 33,664 15,247 0.071 1,082 Sunrise Dam - Underground Proved 31 8.20 251 34 0.239 8 Probable 3,310 5.11

16,912 3,648

0.149 544 Total 3,340 5.14 17,163 3,682 0.150 552 Sunrise Dam – Total Ore Reserve Proved 12,013 2.34 28,153 13,242 0.068 905 Probable 5,160 4.39 22,674 5,688 0.128 729 Total

17,173 2.96 50,827 18,929 0.086 1,634

59 Sunrise Dam Surface - Metric Tonnes above cut-off (millions) 0.00 11.24 0.00 4.50 Cut-off grade (g/t) Ave grade above cut-off (g/t) 9.44 6.61 4.72 3.78 1.89 0.94 0.00 37.47 33.73 29.98 26.23 7.49 3.75 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 2.83 5.66 14.99 18.74 22.48 5.00 7.55 8.50 Tonnes above cut-off Ave grade above cut-off Sunrise Dam Surface - Imperial Tons above cut-off (millions) 0.00 12.39 0.00

0.13

Cut-off grade (g/t)

| Ave grade               |
|-------------------------|
| above cut-off (g/t)     |
| 0.28                    |
| 0.19                    |
| 0.14                    |
| 0.11                    |
| 0.06                    |
| 0.03                    |
| 0.00                    |
| 41.31                   |
| 37.18                   |
| 33.05                   |
| 28.91                   |
| 8.26                    |
| 4.13                    |
| 0.01                    |
| 0.03                    |
| 0.04                    |
| 0.06                    |
| 0.07                    |
| 0.09                    |
| 0.10                    |
| 0.12                    |
| 0.08                    |
| 0.17                    |
| 16.52                   |
| 20.65                   |
| 24.78                   |
| 0.15                    |
| 0.22                    |
| 0.25                    |
| Tons above cut-off      |
| Ave grade above cut-off |
| Competent persons       |
| Professional            |
| Registration            |
| Relevant                |
| Operation               |
| Type                    |
| Name                    |
| organisation            |
| number                  |
| experience              |
| Sunrise Dam –           |
| Mineral Resource        |
| B Catto                 |
| AusIMM                  |
| 202721                  |
| 12 years                |
| Surface                 |
| Ore Reserve             |
|                         |

P Christians

AusIMM

221754

23 years

Sunrise Dam –

Mineral Resource

J Biggam

AusIMM

112082

14 years

Underground

Ore Reserve

S Tombs

AusIMM

105785

30 years

Grade tonnage information

Australia operations: Tropicana

60

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Tropicana

The Tropicana gold deposit is located approximately 350km northeast of Kalgoorlie within the Great Victoria Desert, Western Australia. Tropicana is the first deposit discovered in this remote greenfields exploration area.

#### Geology

The Tropicana deposit comprises two known mineralised zones, the Tropicana zone to the north and Havana zone to the south. Together the known mineralised zones define a system that extends over a 4km strike length. The lenses have been tested to a vertical depth of 350m to 400m, and are open down dip. The Tropicana and Havana zones are grossly "stratiform" within the preferred gneissic host sequence. Havana zone consists of multiple stacked lenses, whereas Tropicana comprises one main mineralised lens.

#### Mineral Resource estimation

The geostatistical method of Uniform Conditioning Is used to estimate the Mineral Resource. All available geological drill-hole information is validated for use in the models and the local geology of the ore body is used to classify the drill-hole information into appropriate geostatistical domains. Detailed statistical analyses are conducted on each of these domains and this allows for the identification of high grade outliers. If these values are anomalous to the general population characteristics then they are cut back to the appropriate upper limit of the population.

61 Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Tropicana – Open pit Measured Indicated 21,788 2.09 45,559 24,018 0.061 1,465 Inferred 22,174 1.93 42,688 24,443 0.056 1,372 Total 43,963 2.01 88,247 48,460 0.059 2,837

Tropicana – Metric

Tonnes above cut-off (millions) 0.00 93.04 0.00 1.80 Cut-off grade (g/t) Ave grade above cut-off (g/t) 3.55 2.48 1.77 1.42 0.71 0.35 0.00 310.14 279.13 248.11 217.10 62.03 31.01 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.06 2.13 124.06 155.07 186.08 2.00 2.84 3.19 Tonnes above cut-off Ave grade above cut-off Tropicana – Imperial Tonnes above cut-off (millions) 0.00 102.56 0.00 0.05 Cut-off grade (g/t) Ave grade above cut-off (g/t)

0.07

0.05 0.04 0.02 0.01 0.00 341.87 307.68 273.50 239.31 68.37 34.19 0.01 0.01 0.02 0.02 0.03 0.04 0.04 0.05 0.03 0.06 136.75 170.93 205.12 0.06 0.08 0.09 Tonnes above cut-off Ave grade above cut-off Grade tonnage information Tropicana: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 0 2006 Depletion Gold price Other 2.8 Exploration 2.8 2007 0 Cost 1.0

0 0.0

Methodology Change 2.0

Competent persons

Professional

Registration

Relevant

Operation

Type

Name

organisation

number

experience

Tropicana

Mineral Resource

M Kent

AusIMM

203631

10 years

62

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Operations

Brasil

Mineraç

~

ao

**BRAZIL** 

Belem

Manaus

Salvador

Rio de Janeiro

Sao Paulo

Crixas

Belo Horizonte

Brasilia

Serra Grande

0

1000km

AngloGold Ashanti's operations in

Brazil comprise the wholly owned

Brasil Mineração (formerly Morro

Velho) and a 50% interest in the

Mineração Serra Grande mines.

Mineral Resource and Ore Reserve gold price and exchange rates

Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

550

Exchange rate - Brazil

R\$/US\$

1.95

2.30

Details of average drill-hole spacing and type in relation to Mineral Resource classification

Type of Drilling

Mine/Project

Category

Spacing

Diamond

**RC** 

Other

Comments

m(-x-)

Brasil Mineraça

~

o Measured 20 x 40 and

(Corrégo do Sítio) 25 x 25 Indicated 50 x 50

Channel samples Inferred 150 x 150

Channel samples Grade 2 x 2 and

Channel samples control 5 x 5 Brasil Mineraça ~

o Measured 5 x 5 and

(Cuiabá) 20 x 40 Indicated 20 x 60

Inferred 80 x 500

Grade 5 x 5

Channel sampling control Serra Grande Measured 10 x 10 and

20 x 10 Indicated 10 x 20 and

20 x 50

Inferred 50 x 100

Grade 2 x 2 and

Channel sampling control 2.5 x 1

Brazil operations: overview

63 Ore Reserve modifying factors (as at 31 December 2007) Cut-off Metallurgical grade Dilution (1)recovery Other Mine/Project g/t (Au) % factor (2)factor Brasil Mineraça o – Corrégo do Sítio Oxides 1.83 34% 87% n/a Brasil Mineraça o - Corrégo do Sítio Sulphides 4.00 n/a 94% n/a Brasil Mineraça o - Cuiabá 3.34 5% 93% n/a Serra Grande 1.0 - 2.85% - 30%97% n/a 1. Where no dilution factor is indicated the dilution is inherent in the resource model estimate 2. A range of plant recoveries indicates variable ore types \* Dilution: The difference between the tonnage broken in stopes and the tonnage milled from underground sources. For example, if 100 tonnes broken in the stopes amounts to 132 tonnes milled, then the dilution is 32%. Mineral Resource and Ore Reserve comparison by operation (attributable) Gold content (million ounces)

% change

% change from from 2006 Net diff 2006 Percentage Other before after after Mine/Project attributable Category 2006 Depletion(1) change(2) depletion 2007 depletion depletion Comments Brasil Mineração 100% Resource 11.031 (0.376)0.260 2% 10.915 (0.116)(1%)Depletion was offset by additions from gold price and exploration Reserve 2.689 (0.341)0.130 5% 2.478 (0.211)Depletion was partly offset by model changes Serra Grande 50% Resource 0.922 (0.098)0.084 9% 0.908

Depletion was offset by additions from the Corpo Sul and Palmeiras pits Reserve 0.433 (0.098)0.057 13% 0.392 (0.041)(9%)Depletion was partly offset by model changes **Brazil Totals** Resource 11.953 (0.474)0.344 3% 11.823 (0.116)(1%)Reserve 3.122 (0.439)0.187 6% 2.870 (8%)(0.252)

- 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.
- 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change.

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Brazil operations: Brasil Mineração

Brasil Mineração has mining rights over 30,698ha in the state of Minas Gerais in south-eastern Brazil. The Brasil Mineração complex is located in the municipalities of Nova Lima, Sabará and Santa Bárbara, south and east of the city of Belo Horizonte and within the mining district referred to as the Iron Quadrilateral (Quadrilátero Ferrífero). This area hosts numerous historic and current gold mining operations, as well as a number of open-pit limestone and iron ore operations. Currently AngloGold Ashanti mines gold-bearing ore at the Cuiabá underground mine and from the Córrego do Sítio heapleach mine.

#### Geology

Cuiabá mine, located in the municipality of Sabará, has gold mineralisation associated with sulphides and quartz veins in Banded Iron Formation (BIF) and volcanic sequences. Where BIF is mineralised, the ore appears strongly stratiform due to the selective sulphidation of the iron-rich layers. Steeply plunging shear zones tend to control the ore shoots, which commonly plunge parallel to intersections between the shears and other structures. The controlling mineralisation structures are the apparent intersection of thrust faults with tight isoclinal folds in a ductile environment. The host rocks at Brasil Mineração are BIF, and mafic volcanics (principally basaltic). Mineralisation is due to the interaction of low salinity carbon dioxide rich fluids with the high-iron BIF, basalts and carbonaceous graphitic schists. Sulphide mineralisation consists of pyrite and pyrrhotite with subordinate arsenopyrite and chalcopyrite; the latter tends to occur as a late-stage fracture fill and is not associated with gold mineralisation. Wallrock alteration is typically carbonate, potassic and silicic. The Lamego deposit is close to Cuiabá and the style of mineralisation is similar. Some 30km to the south-east, the mineralised orebodies at Córrego do Sítio are narrow NE-SW elongated lenses dipping at 20° to 30° and with a pitch angle to the northeast. In general, the mineralised orebodies comprise sericitic zones and quartz veinlets. The gold occurs as inclusions (microscopic or sub-microscopic) in millimetre-size acicular crystals of arsenopyrite, and also as intergrowths on the margins of the sulphide. Other typical minerals in the orebodies are pyrrotite, pyrite and chalcopyrite.

Brasil Mineração

65

Mineral Resource estimation

Three dimensional models of the BIF and sulphide orebodies are created from the drill-hole data. Prototype block models of 10m x 10m x 10m are used to quantify the volume of the orebody and ordinary kriging is used as the geostatistical technique to interpolate grade estimates for all blocks. Other geostatistical techniques such as uniform conditioning and indicator kriging are also used to quantify the proportion of economic ore. This is reported according to the dimensions of the smallest mining unit.

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Brasil Mineraça

~

0 -

Measured

1,295

6.86

8,876

1,427 0.200

285

Corrégo do Sítio

Indicated

5,756

6.40

36,822

6,345

0.187

1,184

Inferred

5,498

6.86

37,696

6,061 0.200 1,212 Total 12,549 6.65 83,394 13,833 0.194 2,681 Brasil Mineraça 0 -Measured 7,289 8.67 63,211 8,035 0.253 2,032 Cuiabá Indicated 2,744 7.20 19,765 3,024 0.210 635 Inferred 12,498 8.00 99,963 13,777 0.233 3,214 Total 22,531 8.12 182,939 24,837 0.237 5,882 Brasil Mineraça o – Measured 765 7.40 5,661 843 0.216 182

## Lamego Indicated 2,340 6.34 14,843 2,579 0.185 477 Inferred 4,142 4.94 20,461 4,566 0.144 658 Total 7,247 5.65 40,965 7,988 0.165 1,317 Brasil Mineraça 0 -Measured 607 5.69 3,456 670 0.166 111 **MMV** Other Resources Indicated 1,415 5.33 7,541 1,560 0.155 242 Inferred 3,154 6.72 21,200 3,477 0.196 682 Total 5,176

6.22 32,197

5,706 0.181 1,035 Brasil Mineraça 0 – Measured 9,956 8.16 81,205 10,974 0.238 2,611 **Total Mineral Resource** Indicated 12,255 6.44 78,971 13,508 0.188 2,539 Inferred 25,293 7.07 179,319 27,881 0.207 5,765 Total 47,503 7.15 339,495 52,364 0.208 10,915 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)

tonnes

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K (Mt) (oz/t)(Moz) Brasil Mineração Measured 2.7 7.89 21.4 3.0 0.230 0.7 Indicated 6.6 6.63 43.6 7.2 0.193 1.4 Inferred 22.1 5.71 126.4 24.4 0.167 4.1 Total 31.4 6.09 191.3 34.6 0.178 6.2

The Lamego Sulphides and MMV Resources form potentially mineable areas depending on the gold price and technical studies.

Brazil operations: Brasil Mineração continued AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mineral Resource by-products: Sulphur Mine/Project Mineral Resource category Tonnes (Mt) Grade (%S) Sulphur (Mt) Brasil Mineraça Measured 7.3 7.0 0.510 Indicated 2.7 7.3 0.199 Inferred 12.5 7.5 0.939 Total 22.5 7.3 1.648 AGA Mineraç~ ao: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 11.0 2006 -0.4 Depletion 0.7 Gold price -0.7 Other 0.3 Exploration 11.0 2007 0.0 Cost 10.5 10.0

-0.1 Methodology

Change

11.5

11.0

Ore Reserve estimation

Pit optimisation is done using Whittle® pit shells corresponding to the Ore Reserve gold price and operational costs. For the underground sulphide orebody (Cuiabá mine and Córrego do Sítio Sulphides) all mining parameters such as mining method, minimum mining width, dilution, MCF and the appropriate gold price are considered in determining the Ore Reserves. The Ore Reserves are scheduled and designed using Mine2-4D® computer software.

Ore Reserve

Metric

**Imperial** 

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Brasil Mineraça

~

0 -

Proved

546

6.14

3,353

602

0.179

108

Corrégo do Sítio

Probable

1,779

5.95

10,583

1,961

0.174

340

Total

2,325

5.99 13,936 2,563 0.175 448 Brasil Mineraça 0 – Proved 6,079 7.83 47,618 6,701 0.228 1,531 Cuiabá Probable 2,485 6.25 15,523 2,739 0.182 499 Total 8,564 7.37 63,141 9,440 0.215 2,030 Brasil Mineraça 0 -Proved 6,625 7.69 50,972 7,303 0.224 1,639 Total Ore Reserve Probable 4,263 6.12 26.106 4,699 0.179 839 Total

10,888 7.08

77,078 12,002 0.206 2,478 AGA Mineraç~ ao: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 2.7 2006 0.5 2007 0.2 Model change -0.3 Depletion 2.6 2.0 -0.1 Scope change

Change 2.8 2.4 2.2

67 Tonnes above cut-off Ave grade above cut-off AGA Mineraç~ ao Surface - Metric Tonnes above cut-off (millions) 0.00 6.00 0.00 18.00 Cut-off grade (g/t) Ave grade above cut-off (g/t) 22.00 20.00 16.00 14.00 10.00 8.00 6.00 14.00 12.00 10.00 8.00 4.00 2.00 2.00 4.00 6.00 8.00 10.00 12.00 14.00 16.00 12.00 18.00 Tonnes above cut-off Ave grade above cut-off AGA Mineraç~ ao Underground - Metric Tonnes above cut-off (millions) 0.00 0.00 Cut-off grade (oz/t) Ave grade above cut-off (oz/t) 7.00 11.00 35.00 30.00 25.00 20.00 15.00 10.00

5.009.00

13.00 15.00 17.00 19.00 21.00 23.00 25.00 4.00 8.00 12.00 16.00 20.00 Tons above cut-off Ave grade above cut-off AGA Mineraç~ ao Surface - Imperial Tons above cut-off (millions) 0.00 16.00 0.00 Cut-off grade (oz/t) Ave grade above cut-off (oz/t) 0.40 0.35 0.15 0.30 0.25 0.20 14.00 12.00 10.00 8.00 6.00 4.00 2.00 0.10 0.20 0.30 0.40 0.50 0.45 0.50 0.55 0.60 0.65 Tons above cut-off Ave grade above cut-off AGA Mineraç~ ao Underground - Imperial

Tons above cut-off (millions) 0.00 40.00 0.00 Cut-off grade (oz/t) Ave grade above cut-off (oz/t) 0.70 0.60 0.20 0.50 0.40 0.30 35.00 30.00 25.00 20.00 15.00 10.00 5.00 0.10 0.20 0.30 0.40 0.50 0.60 Ore Reserve by-products: Sulphur Mine/Project Mineral Resource category Tonnes (Mt) Grade (%S) Sulphur (Mt) Brasil Mineraça o Proved 6.1 5.5 0.331 Probable 2.5 5.7

0.141 Total 8.6

5.5 0.473 Grade tonnage information Competent persons Professional Registration Relevant Operation Type Name organisation number experience Brasil Mineração -Mineral Resource AHM Silva AusIMM 224831 9 years Corrégo do Sítio Ore Reserve MG de Simoni AusIMM 224826 15 years Brasil Mineração -Mineral Resource AHM Silva AusIMM 224831 9 years Cuiabá Ore Reserve LH De Souza AusIMM 224827 23 years Brasil Mineração -Mineral Resource P de Tarso Ferreira AusIMM 224828 22 years Cuiabá Sulphides U/G Ore Reserve LH De Souza AusIMM 224827 23 years Brasil Mineração -Mineral Resource

AHM Silva

AusIMM

224831

7 years

Lamego

Ore Reserve

LH De Souza

AusIMM

224827

23 years

Brasil Mineração –

Mineral Resource

AHM Silva

AusIMM

224831

9 years

MMV Other Resources

68

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Brazil operations: Serra Grande

Serra Grande

The Serra Grande joint venture (50% attributable to AngloGold Ashanti) is co-owned with Kinross Gold Corporation. The operation comprises two underground mines, Mina III and Mina Nova, and a new open pit. The processing circuit is equipped with grinding, leaching, filtration, precipitation and smelting facilities.

Serra Grande controls, or has an interest in, approximately 21,068ha in and around the Crixás mining district in the north-western areas of the Goiás State in central Brazil. Serra Grande is located 5km from the city of Crixás.

#### Geology

The gold deposits are hosted in a sequence of schists, volcanics and carbonates occurring in a typical greenstone belt structural setting. The host rocks are of the Pilar de Goiás Group of the Upper Archaean. Gold mineralisation is associated with massive sulphides and vein quartz material associated with graphitic, sericitic schists and dolomites. The ore shoots plunge downwards to the north. The deposits occur in the Rio Vermelho and Ribeirão das Antes formations of the Archaean Pilar de Goiás Group, which together account for a large proportion of the Crixás Greenstone Belt in central Brazil. The stratigraphy of the belt is dominated by basics and ultra-basics in the lower sequences with volcano sedimentary units forming the upper successions.

The gold deposits are hosted in a sequence of schists, volcanics and carbonates occurring in a typical greenstone belt structural setting. The host rocks are of the Pilar de Goiás Group of the Upper Archaean. Gold mineralisation is associated with massive sulphides and vein quartz material occurs with graphitic and sericitic schists and dolomites. The ore shoots plunge to the north-west with dips of between 6° and 35°. The greenstone belt lithologies are surrounded by Archaean tonalitic gneiss and granodiorite. The metamorphosed sediments are primarily composed of quartz, chlorite, sericite, graphitic and garnetiferous schists. The carbonates have been metamorphosed to ferroan dolomite marble with development of siderite and ankerite veining in the surrounding wallrock, usually associated with quartz veining. The

69

basalts are relatively unaltered but do show pronounced stretching with elongation of pillow structures evident. The ultra-basics form the western edge of the belt and the basic volcanics and sediments form the core of the unit. The northern edge of the belt is in contact with a series of laminated quartzites and quartz sericite schists of the Lower Proterozoic Araxa Group and a narrow band of graphitic schists and intermediate to ultra-basic volcanics.

The Crixás greenstone belt comprises a series of Archaean to Palaeoproterozoic metavulcanics, metasediments and basement granitoids stacked within a series of north to north-east transported thrust sheet. Thrusting (D1) was accompanied by significant F1 folding/foliation development and progressive alteration in a brittle-ductile regime. D1 thrusting developed with irregular thrust ramp geometry, in part controlled by concealed early basin faults. The main Crixás orebodies are adjacent to a major north-northwest basement fault, and an inferred major east-west to south-east flexure in the original volcano-sedimentary basin. Early D1 alteration fluids were focused from south to north, adjacent to the north-northwest structural corridor, and up the main fault ramp/corner, to become dispersed to the east and north in of foreland thrust fault zones.

Fluid alteration also diminished to the west away from the main fault flexure. A series of concealed east-west to north-west-south-east basement block faults may have provided secondary fluid migration, and development of early anti-formal warps in the thrust sheets; these structures probably define the quasi-regular spacing of significant mineralisation within the belt. The D1 thrust stack was gently folded by non-cylindrical folds. Gold mineralising fluids probably migrated during this event, with similar south-southwest to north-northeast migration, and focusing by bedding slip during folding. Gold mineralisation became minor and dispersed to the north and east along the frontal thrust flat zone. Concentrations of gold along the base of quartz vein may be due to the damming of fluids migrating upward along layering.west with dips of between 6° and 35°. The stratigraphy is overturned and thrust towards the east.

Mineral Resource

Metric

**Imperial** 

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)(oz/t) (000s)Serra Grande – Measured 793 4.34 3,440 874 0.127 111 Surface Indicated 277 2.88 797 305 0.084 26 Inferred Total 1,069 3.96 4,236 1,178 0.116 136 Serra Grande – Measured 1,702 4.97 8,456 1,877 0.145 272 Underground Indicated 649 5.49 3,562 715 0.160 115 Inferred 2,098

5.71 11,981 2,313 0.167 385 Total 4,449 5.39 23,999 4,905 0.157 772 Serra Grande – Measured 2,495 4.77 11,895 2,750 0.139 382 Total Mineral Resource Indicated 925 4.71 4,358 1,020 0.137 140 Inferred 2,098 5.12 11,981 2,313 0.167 385 Total 5,518 5.12 28,235 6,083 0.149 908 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au

Tons

## Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Serra Grande Measured 0.1 5.44 0.6 0.1 0.159 0.0 Indicated 0.3 2.95 0.9 0.4 0.086 0.0 Inferred 1.1 6.40 7.2 1.2 0.187 0.2 Total 1.6 5.63 8.8 1.7 0.164 0.3 Inferred Mineral Resource in pit optimisation No Inferred Mineral Resources were used in the pit optimisation process.

Brazil operations: Serra Grande continued 70 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Serra Grande Surface – Metric Tonnes above cut-off (millions) 0.00 0.00 Cut-off grade (g/t) 0.80 Ave grade above cut-off (g/t) 3.00 0.60 0.40 0.20 6.00 5.00 1.00 1.10 4.00 2.00 3.00 5.00 12.00 0.10 0.30 0.50 0.70 0.90 1.00 4.00 6.00 7.00 8.00 9.00 10.00 11.00 Tonnes above cut-off Ave grade above cut-off Serra Grande Surface - Imperial Tons above cut-off (millions) 0.00 0.00 Cut-off grade (oz/t) Ave grade above cut-off (oz/t) 0.35

0.30 0.10

0.25 0.20 0.15 1.20 1.00 0.80 0.60 0.40 0.20 0.02 0.04 0.06 0.08 0.10 0.12 0.14 0.16 0.18 Tons above cut-off Ave grade above cut-off Serra Grande: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 0.9 2006 -0.1 Depletion 0.0 Gold price 0.1 Other 0.0 Exploration 0.9 2007 0.0 Cost 0.80 0.70 0.0 Methodology Change 1.0 0.90 0.95 0.85 Serra Grande Ore Reserve reconciliation

2006 vs 2007

## Ounces (millions) 0.4 2006 0.4 2007 0.1 Model change -0.1 Depletion 0.3 0.0 Scope change Change 0.4 Ore Reserve Metric Imperial Au Reserve Tonnes Grade tonnes Tons Grade ounces Mine/Project category (000s)(g/t)(000s)(000s)(oz/t)(000s)Serra Grande – Proved 864 3.66 3,163 953 0.107 102 Surface Probable 162 2.43 393 178 0.071

13

Total 1,026 3.47 3,556 1,131 0.101 114 Surface Proved 1,416 4.24 6,007 1,561 0.124 193 Underground Probable 439 6.00 2,636 484 0.175 85 Total 1,855 4.66 8,643 2,045 0.136 278 Serra Grande -Proved 2,280 4.02 9,170 2,513 0.117 295 Total Ore Reserve Probable 601 5.04 3,029 663 0.147 97 Total 2,881 4.23 12,199 3,176

0.123

392 Grade tonnage information

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

EM de Araujo

AusIMM

224825

20 years

Ore Reserve

EM de Araujo

AusIMM

224825

20 years

Serra Grande Underground – Metric

Tonnes above

cut-off (millions)

0.00

0.00

Cut-off grade (g/t)

2.00

Ave grade

above cut-off (g/t)

25.00

15.00

5.00

5.00

1.50

1.00

0.50

12.00

10.00

20.00

30.00

2.50

16.00

20.00

8.00

4.00

45.00

3.00

3.50

4.00

4.50

24.00

35.00

#### 40.00

Tonnes above cut-off

Ave grade above cut-off

Serra Grande Underground – Imperial

Tons above

cut-off (millions)

0.00

0.40

0.10

4.00

0.00

0.50

Cut-off grade (oz/t)

5.00

Ave grade

above cut-off (oz/t)

1.40

1.20

1.00

0.80

0.60

0.20

0.40 2.00

0.50

0.20

1.00

1.50

1.50

2.50

3.00

3.50

4.50

0.30

0.60

0.70

Tons above cut-off

Ave grade above cut-off

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Colombia exploration: Gramalote

Since the commencement of exploration, AngloGold Ashanti has staked a total of 10.8 million hectares of exploration claims countrywide. Of these, 6.5 million hectares have been reviewed and either relinquished or farmed-out, leaving 4.3 million hectares in AngloGold Ashanti's current tenement portfolio. Further rationalisation of this vast property holding (through both in-house exploration and farm-outs) continued as a priority in 2007.

The Gramalote project is located 120 road kilometres west-northwest of Medellin, the capital of the Antioquia department. Site access is by paved road from Medellin (2.5 hours) and from Bogota (7 hours). The Gramalote project presently is a joint venture with Vancouverbased B2Gold Corp. In 2005, Sociedad Kedahda (AngloGold Ashanti's subsidiary in Colombia) entered into a joint venture agreement with the Colombian-based Grupo Nus. As part of the Joint Venture Agreement, Sociedad Kedahda could earn a 75% interest in the Gramalote property by completing cash payments, complying with specific work expenditures and presenting a feasibility study on or before July 2010. In August 2007, Vancouverbased B2Gold Corp. purchased the rights to the Grupo Nus option agreement, including the remaining 25% interest in the Gramalote property from the Grupo Nus. In November 2007, AngloGold Ashanti in turn decided to reduce its interest in the Gramalote property to 49% and offered B2Gold the opportunity to become the project operator with overall responsibility for taking the project through feasibility.

#### Geology

The Gramalote area is underlain by medium to coarse-grained biotite +\- hornblende tonalite and granodiorite of the Paleocene to Cretaceous Antioquian batholith. Tonalite from the Gramalote exploration audit gave zircon ages of 59+1.2ma. Magmatism, structural events and mineralisation are intimately related. The location of drill targets is controlled by N70-75E striking steeply SE dipping transfer zones developed between two sub-regional faults (Rio Nus, Quebrada Socorro).

On the local prospect scale extensional domains with quartz veinlets and compressional domains with shear zones have formed. There are two principal mineralised sectors at Gramalote are Las Torres and Cerro Gramalote. Both occur in extensional domains striking N20-30W and dipping 75-80°SW. Gold grades >1g/t often correlate with increased fracturing (>9 fractures/veinlets per metre) and the dominant alteration is potassic K-feldspar. Quartz-sericite overprints and quartz-pyrite-chalcopyrite-molybdenite+gold veinlets follow subsidiary structures.

Shear zone domains strike N50-60E and dip 75-80SE. Individual shears zones are often up to 40m apart and N-S veins follow extension fractures between them. These veins have been targets for small scale mining at Los Mangos. Alteration in shear zone domains is dominantly (quartz-) sericite with remnant potassic K-feldspar alteration. Veinlets

are quartz-molybdenite-chalcopyrite-pyrite+sphalerite+gold.

Bucaramanga

200km

Colombia

Bogotá

Ibagué

Cali

Mocoa

Medellin

Neiva

B2 Gold jv area

of interest

B2 Gold

Glencore jv

AngloGold Ashanti

drill projects

Gramalote

In 2003 AngloGold Ashanti was the first company to instigate a systematic grassroots exploration program in Colombia. The Gramalote project is located 120 road kilometres west-northwest of Medellin, the capital of the Antioquia department. Gramalote

In summary, three styles of alteration-mineralisation are distinguished at Gramalote:

Potassic K-feldspar alteration with associated veinlets and sporadically veins;

(Overprinting) quartz-sericite alteration with veins and syn-deformation veinlets; and

Sericite/chlorite-quartz-calcite/illite-smectite alteration on reactivated fault planes.

Gold grades are attractive, especially in areas characterised by potassic K-feldspar dominated alteration and quartz-pyrite-chalcopyrite veinlets. Las Torres and Cerro Gramalote have been drilled on 100m lines. El Barzal has been partially drill tested and the La Concha prospect remains undrilled.

Mineral Resource estimation

At Gramalote, some 12,551m of diamond drilling (43 holes) has been used to support the calculation of a compliant Inferred Mineral Resource.

The Inferred Mineral Resource estimate tabulated below was generated using the Indicator Kriging method. All available geological drill-hole, surface and underground mapping information has been validated for use in the modelling process.

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Mineral Resource

Metric

**Imperial** 

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Gramalote

Measured

-

Indicated

\_

\_

\_

Inferred

43,394

1.14

49,491

47,833

0.033

1,591

Total

43,394

1.14

49,491

47,833

0.033

1,591

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

LH De Souza

AusIMM

224827

23 years

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 The concession area encompasses the entire Kilo greenstone belt, which has a rich history of gold occurrences. Concession 40 is held in a Joint Venture between AngloGold Ashanti Kilo (AGAK) and OKIMO, a governmental body which currently holds a 13.8% non-contributory share. AGAK is 100% owned by AngloGold Ashanti Ltd.

Most of AngloGold Ashanti's exploration activities in Concession 40 have focused on the delineation of resources in the vicinity of the redundant Adidi-Kanga, Nzebi, and Senzere gold mines. These old mines are collectively centred around the village of Mongbwalu, some 48km north-west of the regional town of Bunia and 320km south-east of Kampala in neighbouring Uganda.

The improved security situation throughout the remainder of Concession 40 has allowed for the commencement of a regional exploration program, including the flying of airborne geophysics over key parts of the concession.

Geology

The Mongbwalu Project is located within the Kilo Archaean granite-greenstone belt that extends approximately 850km west-northwest of Lake Albert. Granitoids are the predominant rock type and they contain rafts of Kibalian amphibolites and basic talc carbonate schists that have been intruded by diorite-tonalite-granodiorite assemblages. The mineralisation is hosted in multiple, shallow dipping mylonite bodies that average 30m in width. Within the mylonite zones, the gold is primarily concentrated in boudinaged quartz veins that are orientated sub-parallel to the mylonite zones and their immediate wall-rock. The mineral assemblage is simple and contains free gold and minor (< 2%) sulphides.

The easterly dipping mylonite zones are continuous throughout the area drilled to date with the most prospective zone located close to the old Adidi Mine. Two north-south trending faults have offset the mineralisation and have kept the potential resource area within 150m to 200m of the surface. Potential remains at depth, both down plunge on the known mylonite horizons and within subsidiary structures still to be targeted by drilling.

Democratic

Republic

of Congo

Mongbwalu

Kinshasa

0

400km

One of AngloGold Ashanti's most important exploration projects is situated within the 10,000km

2

Concession 40 in the Ituri Provence of north-eastern Democratic Republic of Congo (DRC). The Mongbwalu Project, situated within Concession 40, is located on the Kilo Archaean

granite-greenstone belt that extends approximately 850km west-northwest of Lake Albert.

Democratic Republic of Congo exploration: Mongbwalu Mongbwalu

AngloGold Ashanti commenced drill testing of the resource potential of the Mongbwalu area in mid-2005 and by the end of 2006, the broader Mongbwalu area (Nzebi-Adidi-Kanga-Pluto sectors) had been diamond drilled on a 200m x 200m grid. The program covered an area 2.2km by 2.7km centred over the southern part of the Adidi mine.

From this drilling, distinct zones with potentially economic grades of gold in quartz-veins were delineated. Infill RC and diamond drilling on 50m x 50m centres was undertaken during 2007 to cover these areas of maximum potential to host near surface open-pit extractable or shallow underground extractable mineralisation with the view to defining an initial inferred resource by the end of 2007. Data obtained from a total of 87,933m of drilling has been used for resource modelling and estimation.

The principle Mongbwalu Mylonite horizons and other important geological units defined by drill-hole logging and interpretation were modelled using conventional 3D wireframing techniques and Datamine Software®. To define the Inferred Mineral Resource, resource envelopes were created using manual wireframing in Datamine® at cut-off grades of 0.5g/t Au and 3.0 g/t Au. Following geostatistical evaluation of the drill-hole assay database, gold grades were interpolated into a 3D block-model incorporating the principle geological units and resource envelopes using Ordinary Kriging to define the Inferred Mineral Resource, at a cut-off grade of 0.5 g/t. Initial scoping level mining metallurgical, geotechnical, hydrogeological, environmental, socio-political and infrastructural engineering studies were undertaken in parallel with the drilling to support the resource estimate in anticipation of the project moving towards pre-feasibility during 2008.

Mineral Resource

Metric

Imperial

Au

Resource

**Tonnes** 

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Mongbwalu Measured

\_

Mineral Resource estimation

0.078 2,523

76

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Ghana operations: overview

Operations

Bolgatanga

Tamale

Kumasi

Tarkwa

Sekondi

Takoradi

Obuasi

Iduapriem

Teberebi

0

300km

Accra

Lake

Volta

**GHANA** 

AngloGold Ashanti has two mines in

Ghana: Obuasi (which comprises

both surface and underground

operations) and Iduapriem (open-pit).

Obuasi is wholly owned and on the

1st September 2007 the company

increased its stake in Iduapriem gold

mine from 85% to 100%.

Mineral Resource and Ore Reserve gold price

Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

550

Mineral Resource and Ore Reserve comparison by operation (attributable)

Gold content (million ounces)

% change

% change

from

from 2006

Net diff

2006

Percentage

Other

before

after

after Mine/Project attributable Category 2006 Depletion(1) change(2) depletion 2007 depletion depletion Comments Iduapriem 100% Resource 3.514 (0.195)0.184 5% 3.503 (0.011)0% Purchase of an additional 15% of the operation from the Ghanaian Government and the IFC, to bring the ownership to 100% Reserve 2.210 (0.206)0.414 19% 2.418 0.208 9% Purchase of an additional 15% of the operation from the Ghanaian Government and the IFC, to bring the ownership to 100% Obuasi 100% Resource 29.452 (0.672)4.647 16% 33.427 3.975 13% Exploration below 50 level (1.3Moz) and completion of additional Mineral Resource modelling above 50 level

Reserve

```
8.705
(0.582)
0.206
2%
8.329
(0.376)
-4%
A lower tailings throughput was
offset by an increase in ore from
underground
Ghana Totals
Resource
32.966
         (0.867)
4.831
15%
36.930
            3.964
                     12%
Reserve
10.915
         (0.788)
0.620
        6%
10.747
           (0.168)
-2%
```

- 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.
- 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change.

Details of average drill-hole spacing

77

Details of average drill-hole spacing and type in relation to Mineral Resource classification

Type of drilling

Mine/Project

Category

Spacing

Diamond

RC

Other

Comments

m(-x-)

Iduapriem

Measured

50 x 50

Indicated

50 x 75

50m x 100m spacing in some areas.

Inferred

100 x 100

Grade/Ore control

15 x 10

RC drilling only. Occasionally

20m x 10m spacing.

Obuasi -

surface

Measured

20 X 20

Indicated

30 X 30

Inferred

90 X 90

Grade/Ore control

10 X 10

Obuasi -

underground

Measured

20 X 20

Channel sampling. Indicated 60 X 60 Channel sampling. Inferred 120 X 120 Channel sampling. Ore Reserve modifying factors (as at 31 December 2007) Cut-off Metallurgical grade Dilution (1) recovery Other Mine/Project g/t (Au) % factor factor Iduapriem 0.66 - 0.758% 94% n/a Obuasi - pit n/a 10% 75% n/a Obuasi – underground 4.50 18% 81% n/a Obuasi – tailings n/a n/a 25 - 41%n/a 1. Where no dilution factor is indicated the dilution is inherent in the resource model estimate.

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Ghana operations: Iduapriem

Iduapriem

Iduapriem mine is situated in the western region of Ghana, some 70km north of the coastal city of Takoradi, and 10km south-west of Tarkwa. Iduapriem is an open-pit mine. Its processing facilities include a carbon-in-pulp (CIP) plant.

#### Geology

The Iduapriem and Teberebie gold mines are located along the southern end of the Tarkwa basin. The mineralisation is contained in the Proterozoic Banket Series, conglomerate within the Tarkwaian System. The outcropping Banket Series in the mine area form prominent arcuate ridges extending southwards from Tarkwa, westwards through Iduapriem and northwards towards Teberebie. The gold is fine-grained, particulate and free milling. Mineralogical studies indicate that the grain size of native gold particles ranges between 2 microns and 500 microns (0.002 to 0.5mm) and averages 130 microns (0.13mm). Sulphide minerals are present only at trace levels and are not associated with the gold.

#### Mineral Resource estimation

All geological interpretations are used to produce a three dimensional wire frame model of the orebody using Datamine® software. A prototype block model comprising of 25m x 5m x 6m blocks is used within the geological model outlines and where appropriate, selective sub-celling is used for definition on the geological and mineralisation boundaries. The geostatistical techniques used for grade interpolation into the blocks include Multiple Indicator Kriging (MIK), ordinary kriging and inverse distance squared (ID2) methods.

79 Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)(oz/t)(000s)Iduapriem -Measured 1,902 1.30 2,469 2,096 0.038 Full Grade Ore Stockpile Indicated Inferred Total 1,902 1.30 2,469 2,096 0.038

79

Iduapriem –

# Measured 35,908 1.60 57,590 39,581 0.047 1,852 Iduapriem Surface Indicated 19,339 1.70 32,888 21,318 0.050 1,057 Inferred 8,722 1.70 14,805 9,614 0.050 476 Total 63,969 1.65 105,283 70,513 0.048 3,385 Iduapriem – Measured Other Stockpile Indicated Inferred 2,000 0.60 1,200 2,205

0.018

39 Total 2,000 0.60 1,200 2,205 0.018 39 Iduapriem – Measured 37,809 1.59 60,059 41,677 0.046 1,931 **Total Mineral Resource** Indicated 19,339 1.70 32,888 21,318 0.050 1,057 Inferred 10,722 1.49 16,005 11,819 0.044 515 Total 67,870 1.61 108,952 74,814 0.047 3,503 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade

ounces Mine/Project category

(Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Iduapriem Measured 1.2 1.73 2.1 1.3 0.050 0.1 Indicated 6.2 1.51 9.3 6.8 0.044 0.3 Inferred 10.7 1.49 16.0 11.8 0.044 0.5 Total 18.1 1.51 27.4 20.0 0.044 0.9 Inferred Mineral Resource in business plan Inferred Mineral Resources were used in the pit optimisation process and 0.17 million ounces are present in the optimised pit of which 0.16 million ounces are included in the final production scheduling. Iduapriem: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 3.5 2006 -0.2 Depletion 0.4 Gold price 0.6

Other 0.0

Exploration 3.5 2007 -0.8 Cost 3.0 2.5 0.0 Methodology Change 4.0 3.5 Iduapriem: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 2.2 2006 2.4 2007 0.0 Model change -0.2 Depletion 1.5 0.4

Scope change Change 2.0 2.5

80

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Ghana operations: Iduapriem continued

Ore Reserve estimation

Pit optimisation is done using the relevant economic assumptions, geotechnical parameters and mining assumptions. Iduapriem uses NPV scheduler and the ultimate pit shell is selected based on optimal criteria. The subsequent pit design is done using Datamine® software, which forms the basis for the Ore Reserve.

Ore Reserve

Metric

Imperial

Au

Reserve

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Iduapriem -

Proved

1,902

1.30

2,469

2,096

0.038

79

Full Grade Ore Stockpile

Probable

-

\_

Total

1,902

1.30

2,469

2,096

0.038

79

Iduapriem -Proved 34,687 1.47 51,042 38,236 0.043 1,641 Iduapriem Surface Probable 13,163 1.65 21,695 14,509 0.048 698 Total 47,850 1.52 72,737 52,745 0.044 2,339 Iduapriem – Proved 36,589 1.46 53,511 40,332 0.043 1,720 Total Ore Reserve Probable 13,163 1.65 21,695 14,509 0.048 698 Total 49,752 1.51 75,206 54,841 0.044 2,418 Tonnes above cut-off Ave grade above cut-off Iduapriem – Metric Tonnes above cut-off (millions)

0.00 15.07 0.00 Cut-off grade (g/t) 67.83 Ave grade above cut-off (g/t) 3.11 2.85 2.32 2.05 1.53 1.26 1.00 60.29 52.76 45.22 37.68 30.15 22.61 7.54 1.80 1.79 2.58 3.37 0.30 75.36 2.40 3.00 1.20 0.60 0.90 1.50 2.10 2.70 3.64 Tons above cut-off Ave grade above cut-off Iduapriem – Imperial Tons above cut-off (millions) 0.00 0.04 0.06 0.07 0.02 0.05 66.46 0.00 0.08 Cut-off grade (oz/t) 83.08

| 74.77                |
|----------------------|
| Ave grade            |
| above cut-off (oz/t) |
| 0.10                 |
| 0.08                 |
| 0.07                 |
| 0.06                 |
| 0.06                 |
| 0.05                 |
| 0.04                 |
| 0.00                 |
| 0.03                 |
| 0.02                 |
| 0.01                 |
| 58.15                |
| 49.85                |
| 41.54                |
| 33.23                |
| 24.92                |
| 16.62                |
| 8.31                 |
| 0.01                 |
| 0.03 0.04            |
| Competent persons    |
| Professional         |
| Registration         |
| Relevant             |
| Type                 |
| Name                 |
| organisation         |
| number               |
| experience           |
| Mineral Resource     |
| K Osei               |
| AusIMM               |
| 112723               |
| 13 years             |
| Ore Reserve          |
| EB Boakey            |
| AusIMM               |
| 222459               |
| 0.1                  |

21 years Grade tonnage information

Ghana operations: Obuasi

Obuasi

The Obuasi mine is located in the Ashanti region of Ghana, some 80km from Kumasi. Historically, Obuasi has been an underground mine, although there was large-scale open-pit mining between 1990 and 2000. The mine has two active treatment plants: the sulphide treatment plant to process underground ore and the tailings treatment plant to handle tailings reclamation operations. Geology

The gold deposits at Obuasi are part of a prominent gold belt of Proterozoic (Birimian) volcano-sedimentary and igneous formations. These deposits extend for a distance of approximately 300km, in a north-east/south-west trend, in south-western Ghana. Obuasi mineralisation is shear-zone-related and there are three main structural trends hosting gold mineralisation: the Obuasi trend, the Gyabunsu trend and the Binsere trend.

Two main ore types are mined:

quartz veins which consist mainly of quartz with free gold in association with lesser amounts of various metal sulphides containing iron, zinc, lead and copper. The gold particles are generally fine-grained and are occasionally visible to the naked eye. This ore type is generally non-refractory; and sulphide ore which is characterised by the inclusion of gold in the crystal structure of a sulphide material. The gold in these ores is fine-grained and often locked in arsenopyrite. Higher gold grades tend to be associated with finer grained arsenopyrite crystals. Other prominent minerals include quartz, chlorite and sericite. Sulphide ore is generally refractory.

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mineral Resource estimates are derived from interpretations of information about the location, shape, continuity and grade of the individual ore bodies. The open-pit Mineral Resource was estimated using three dimensional computer block models constructed using the Datamine

R

software. Geological interpretation was based on trench and reverse circulation and or diamond drilling data. A prototype block model of 30m x 30m x 10m was used within the Geological Model envelope. Ordinary kriging was used as the primary estimation methodology.

97% of the underground Mineral Resource was estimated using block models within the delineated ore zones. A prototype block model of 20m x 5m x 15m representing the Minimum Mining Unit was used and estimates are based on ordinary kriging. The remaining 3% of the resource are global estimates.

Surface stockpiles volumes are based on a surveyed figures and grades based on historical sampling. Tailings are part of the Mineral Resource with tons and grades based on a combinations of 3D models of some dams and historical metallurgical discharge data.

Phyllites, Greywackes and Shists

Mineralised - Auriferous -

Barren Metavolcanic (Dyke)

Carbonaceous/Graphitic Fissure

Auriferous Quartz Vein

41 Level

38 Level

17

V

32 Level

V

V

26 Level

**LEGEND** 

Main

Fissure

Fissure

Obuasi

N-Fissure

20 Level

12 Level

8 Level EAST

Cote D'Or Spur

Cowsu

Spur

Fissure

12/74

Cote D'Or

Fissure Zero Quartz Footwall 4 & 5 Lodes Big Blow K-Fissure **WEST** 3 West Metavolcanic (Dyke) 0 150 Metres -500m -1000m 250m S.V.S. M AIN **EEF FIS** SU RE **OBUASI FISSURE ASHANTI INSINTSIAM REEF OXIDISED ZONE** folded siltstone granulated phyllite siltstones and folded phyllites greywackes phyllite greywacke schist 50 41 38 30 26 20 16 12 8 0 120 **ORE BODY** 

and
phyllite
ADANSI
SHAFT
Metres
FISSURE
FISSURE
COTE D'OR

0

-100m

-200m

-300m

-500m

100m

-600m

-700m

-400m

Phyllites, Greywackes and Shists

Barren Metavolcanic (Dyke)

Cardonaceous/Graphitic Fissure

Auriferous Quartz Vein

**LEGEND** 

EW Section through Adansi (AA)

EW Section through KMS (AA)

Mineral Resource estimation

Ghana operations: Obuasi continued

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Obuasi -

Measured

8,474

1.62

13,703

9,341

0.047

441

Surface

Indicated

35,652

1.74

61,967

39,299

0.051

1,992

Inferred

3,243

2.74

8,872

3,575

0.080

285

Total

47,369

1.78

84,542

52,215

0.052

2,718

Obuasi -

Measured 48,974 8.57 419,909 53,984 0.250 13,500 Underground Indicated 27,381 8.31 227,549 30,182 0.242 7,316 Inferred 31,343 9.82 307,707 34,550 0.286 9,893 Total 107,698 8.87 955,165 118,717 0.259 30,709 Obuasi -Measured 57,448 7.55 466,612 63,326 0.220 13,941 **Total Mineral Resource** Indicated 63,033 4.59 289,516 69,482 0.134 9,308 Inferred

34,586 9.15 316,579 38,326 0.267

10,178 Total 155,067 6.70 1,039,707 170,932 0.196 33,427 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Obuasi Measured 26.7 8.97 239.6 29.5 2.262 7.7 Indicated 47.8 3.63 173.2 52.6 0.106 5.6 Inferred 24.2 8.91 215.5 26.7 0.260 6.9

Total 98.7

6.37 628.3 108.8 0.186 20.2 Mineral Resource below infrastructure Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Obuasi -Below 50 level Total 14,800 15.18 224,700 16,300 0.443 7,224 Obuasi Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 29.5 2006 -0.7 Depletion 0.0 Gold price -1.5 Other 4.3 Exploration 33.4

2007

0.0 Cost 25 20 1.9 Methodology Change 35 30 Obuasi Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 7.1 Change 9.1 8.1 8.7 2006 8.3 2007 0.8 Model change -0.6

Depletion -0.6 Scope change

84

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Ghana operations: Obuasi continued

Ore Reserve estimation

The three dimensional Mineral Resource models are used as the basis for the Ore Reserves. An ore envelope is developed using the Mineral Resource block model, geological information and the relevant cut-off grade, which is then used for mine design. Datamine® software called Mineral Resource Optimizer is used to generate the ore envelope. An appropriate mining layout is designed that incorporates mining extraction losses, dilution factors and MCF.

Ore Reserve

Metric

**Imperial** 

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Obuasi - Surface

Proved

8,982

1.70

15,290

9,901

0.050

492

Probable

-

\_

Total

8,982

1.70

15,290

9,901

0.050

Obuasi – Underground Proved 23,203 5.81 134,926 25,577 0.170 4,338 Probable 15,104 7.21 108,832 16,649 0.210 3,499 Total 38,307 6.36 243,758 42,226 0.186 7,837 Obuasi - Total Ore Reserve Proved 32,185 4.67 150,216 35,478 0.136 4,830 Probable 15,104 7.21 108,832 16,649 0.210 3,449 Total 47,289 5.48 259,048 52,127 0.160 8,329 Ore Reserve below infrastructure Metric Imperial Au Resource Tonnes

492

Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Obuasi -Below 50 level Total 3,900 11.05 42,900 4,280 0.322 1,379 Obuasi Underground – Metric Tonnes above cut-off (millions) 0.00 20.94 0.00 Cut-off grade (g/t) 94.25 Ave grade above cut-off (g/t) 27.10 24.71 19.94 17.55 12.77 10.39 8.00 83.78 73.31 62.83 52.36 41.89 31.42 10.47 12.00 15.16 22.32

29.48 104.72

16.00 20.00 8.00 2.00 4.00 6.00 10.00 14.00 18.00 31.87 Tonnes above cut-off Ave grade above cut-off Obuasi Underground - Imperial Tons above cut-off (millions) 0.00 0.29 0.41 0.47 0.12 0.35 92.35 0.00 0.53 Cut-off grade (oz/t) 115.44 103.89 Ave grade above cut-off (oz/t) 0.93 0.84 0.74 0.65 0.56 0.46 0.37 0.00 0.28 0.19 0.09 80.80 69.26 57.72 46.17 34.63 23.09 11.54 0.06 0.18 0.23 0.58 Tons above cut-off

Ave grade above cut-off

Grade tonnage information

85 Obuasi Surface - Imperial Tons above cut-off (millions) 0.00 0.60 0.00 Cut-off grade (g/t) Ave grade above cut-off (g/t) 0.090 0.085 0.075 0.070 0.065 1.80 1.60 1.40 0.40 0.20 0.01 0.02 0.03 0.04 0.05 0.06 0.080 0.80 1.00 1.20 0.07 0.08 0.09 Tons above cut-off Ave grade above cut-off Obuasi Surface - Metric Tonnes above cut-off (millions) 0.00 0.60 0.00 Cut-off grade (g/t) Ave grade above cut-off (g/t) 3.20 3.00 2.60 2.40 2.20

1.80 1.60

- 1.40
- 0.40
- 0.20
- 0.50
- 1.00
- 1.50
- 1.50
- 2.00
- 2.50
- 3.00
- 2.80
- 0.80
- 1.00
- 1.20

Tonnes above cut-off

Ave grade above cut-off

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

H Eybers

SACNASP

400098/99

20 years

Ore Reserve

J vZ Visser

**PLATO** 

PMS0119

21 years

86

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Operations

Kankan

Dabola

Labe

Siguiri

Conakry

0

200km

**GUINEA** 

Siguiri mine is AngloGold Ashanti's only operation in the Republic of Guinea in West Africa. The mine is 85% owned by AngloGold Ashanti and 15% by the government of

Guinea.

Guinea operations: overview

Mineral Resource and Ore Reserve gold price

Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

550

Resource definition drilling consists of Air Core (AC), Reverse Circulation (RC) and Diamond Drilling (DD) boreholes. All available geological drill-hole information is validated for usage in the models and the local geology of the orebody is used to classify the drill-hole information into appropriate geostatistical domains. Detailed statistical analyses are conducted on each of these domains and this allows for the identification of high grade outliers. If these values are anomalous to the general population characteristics then they are cut back to the appropriate upper limit of the population.

The Mineral Resources are estimated using three dimensional computer block models constructed in Datamine® software. Geological interpretation is based on Geological borehole data. A prototype block model ranging from  $10m \times 10m \times 2.5m$  to  $50m \times 25m \times 6m$  block sizes depending on the shape of the orebody is used within the Geological model outlines. Ordinary and indicator kriging are used to estimate gold grades and a limiting pit shell at \$650/oz is used to quantify the total Mineral Resources.

Details of average drill-hole spacing and type in relation to Mineral Resource classification

Type of Drilling

Mine/Project

Category

Spacing
Diamond
RC
Other
Comments
m (- x -)
Iduapriem
Measured

Siguiri Measured 5 x 10

50 x 50

Indicated 25 x 25 and

AC Includes air core drilling. 50 x 50 Inferred 50 x 50 and

AC Includes air core drilling. 80 x 25 Grade/Ore control 5 x 10

Mineral Resource estimation

87

Ore Reserve estimation

The Mineral Resource models for each pit are combined with waste blocks and depleted to the mining surfaces. Costs are assigned on a pit by pit basis reflecting the current existing cost structure of the operation. The relevant dilution and ore loss factors are applied and the optimisation is done in Earthworks® NPV Scheduler software. The relevant metallurgical recoveries, geotechnical parameters, cut-off grades and economics are applied to generate the final Ore Reserve.

Mineral Resource and Ore Reserve comparison by operation (attributable)

Gold content (million ounces)

% change

% change

from

from 2006

Net diff

2006

Percentage

Other

before

after

after

Mine/Project

attributable

Category

2006 Depletion(1)

change(2)

depletion 2007

depletion

depletion

Comments

Siguiri

85%

Resource

5.118

(0.336)

0.163

3% 4.945

(0.173)

(3%)

Significant focus on converting

Inferred to Indicated during 2007

Reserve

1.796

(0.302)

1.135

63% 2.629

0.833

46%

Two new deposits (Kintinian and the spent heap) were proved up by drilling Guinea Totals Resource 5.118 (0.336)0.163 3% 4.945 (3%)(0.173)Reserve 1.796 (0.302)1.135 63% 2.629 0.833 46% 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource. 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change. Ore Reserve modifying factors (as at 31 December 2007) (1) Mine Call Metallurgical grade Dilution Factor recovery Mine/Project g/t (Au) % (MCF) % factor (2) Siguiri 0.35 - 0.504% 96%

- 93.0 97.5%

  1. A range of cut-offs indicate variable ore types.
- 2. A range of plant recoveries indicates variable ore types.

88

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Guinea operations: Siguiri

Siguiri

Société Ashanti Goldfields (SAG) de Guinée Siguiri gold mine is situated in the Siguiri district in the north-east of the Republic of Guinea, West Africa, about 850km from the capital city of Conakry. The SAG concession consists of four blocks totalling 1,494.58km

2

. All ore and waste is mined by a mining contractor in a conventional open-pit mining operation. Processing is done via a CIP plant.

Geology

This concession is dominated by Proterozoic Birimian rocks which consist of turbidite facies sedimentary sequences. There are two main types of gold deposits that occur in the Siguiri basin: laterite mineralisation (CAP) and in situ quartz-vein-related mineralisation. The laterite mineralisation occurs as aprons of colluvial or as palaeo-channels of alluvial lateritic gravel adjacent to and immediately above the in situ vein-related mineralisation. The vein-related mineralisation is hosted in meta-sediments with the better mineralisation associated with vein stockworks, that occur preferentially in the coarser, brittle siltstones and sandstones. The mineralised rocks have been deeply weathered to below 100m in places to form saprolite (SAP) mineralisation. The practice at Siguiri has been to blend the CAP and SAP ore types and to process these using the heap-leach method. With the percentage of available CAP ore decreasing, however, a CIP plant was brought on stream during 2005 to treat predominantly SAP ore.

89 Siguiri: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 5.1 2006 -0.3 Depletion 0.3 Gold price -0.1 Other 0.7 Exploration 4.9 2007 -0.7 Cost 4.8 3.8 0 Methodology Change 5.8 Siguiri: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 1.8 2006 2.6 2007 0.1 Model change -0.3 Depletion 2.5 1.5 1.1 Scope change Change Inferred Mineral Resource in business plan Inferred Mineral Resources were used in the pit optimisation process and 0.08 million ounces are present in the optimised pit of which 0.08 million ounces are included in the final production scheduling.

Mineral Resource

Metric Imperial

Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)(oz/t)(000s)Siguiri – Oxides Measured 17,406 0.87 15,121 19,187 0.025 486 Indicated 60,715 0.91 55,180 66,927 0.027 1,774 Inferred 44,723 1.03 46,028 49,299 0.030 1,480 Total 122,844 0.95 116,328 135,412 0.028 3,740 Siguiri – Surface Resource Measured

21,320 0.59 12,585 23,501

267

0.017 405 Indicated 31,954 0.54 17,293 35,223 0.016 556 Inferred 13,401 0.57 7,607 14,772 0.017 245 Total 66,675 0.56 37,485 73,497 0.016 1,205 Siguiri – Total Mineral Resource Measured 38,726 0.72 27,705 42,688 0.021 891 Indicated 92,669 0.78 72,472 102,150 0.023 2,330 Inferred 58,124 0.92 53,635 64,071 0.027 1,724 Total 189,519 0.81

153,813 208,909 0.024

4,945

**Exclusive Mineral Resource** 

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(Mt)

(g/t)

tonnes

(Mt)

(oz/t)

(Moz)

Siguiri

Measured

1.0

0.71

0.7

1.1

0.021

0.0

Indicated

18.7

0.93

17.4

20.7

0.027

0.6

Inferred

57.7

0.92

53.2

63.6

0.027

1.7

Total

77.4 0.92

71.3

85.3

0.027

2.3

90 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Guinea operations: Siguiri continued Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Siguiri – Oxides Proved Probable 57,603 0.90 51,903 63,497 0.026 1,669 Total 57,603 0.90 51,903 63,497 0.026 1,669 Siguiri – Surface Reserve Proved 21,320 0.59

12,585 23,501 0.017

405 Probable 31,954 0.54 17,293 35,223 0.016 556 Total 53,274 0.56 29,878 58,724 0.016 961 Siguiri – Total Ore Reserve Proved 21,320 0.59 12,585 23,501 0.017 405 Probable 89,557 0.77 69,196 98,720 0.023 2,225 Total 110,877 0.74 81,781 122,221 0.022 2,629 Siguiri – Metric Tonnes above cut-off (millions) 0.00 42.13 0.00 Cut-off grade (g/t) 189.59 Ave grade above cut-off (g/t) 7.45 6.52

4.663.73

1.86 0.93 0.00 168.52 147.46 126.39 105.33 84.26 63.20 21.07 2.80 5.59 8.39 210.65 2.50 5.00 9.32 0.50 1.00 2.00 3.00 3.50 4.50 1.50 4.00 Tonnes above cut-off Ave grade above cut-off Siguiri – Imperial Tons above cut-off (millions) 0.00 0.07 0.10 0.12 0.03 0.09 185.76 0.00 0.13 Cut-off grade (oz/t) 232.20 208.98 Ave grade above cut-off (oz/t) 0.27 0.24 0.22 0.19 0.16 0.14 0.11 0.00

0.08

0.05 0.03 162.54 139.32 116.10 92.88 69.66 46.44 23.22 0.01 0.04 0.06 0.15 Tons above cut-off Ave grade above cut-off Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

P Winkler

AusIMM

220329

25 years

Ore Reserve

A Netherwood

AusIMM

100463

18 years

Grade tonnage information

91

Mineral Resource estimation

The Mineral Resource is taken as the material that falls within the \$700/oz economic shell optimised for each individual deposit except for Morila and Alamoutala (Yatela). The pits at these operations are reaching the end of their lives and the Mineral Resource is quoted within the life of mine design. A three dimensional surface is generated to create the outline of the geological model. This model is then used as a prototype model to estimate grades. Block sizes between 25m x 25m x 10m and 30m x 30m x 10m (X Y Z) and where appropriate selective sub-celling is used for definition on the geological and mineralisation boundaries. The dimensions of these sub cells are 12.5m x 12.5m x 3.33m and 10m x 10m x 5m. All the deposits have kriged block models and where appropriate a geostatistical technique called Uniform Conditioning is used to estimate the proportion of economic ore that occur above the Mineral Resource cut-off and this is reported according to the dimensions of the practical mining unit.

Mali operations: overview

Mineral Resource and Ore Reserve gold price

Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

550

Operations

**MALI** 

Tombouctou

Gao

Ségou

Nioro

Kayes

Sikasso

Morila

Yatela

Sadiola

0

500km

AngloGold Ashanti has interests in three operations in the West African country of Mali – Sadiola (38%),

Yatela (40%) and Morila (40%). All

three operations are managed by

AngloGold Ashanti.

Details of average drill-hole spacing and type in relation to Mineral Resource classification

| Type of Drillin |
|-----------------|
| Mine/Project    |
| Category        |
| Spacing         |
| Diamond         |
| RC              |
| Other           |
| Comments        |
| m (- x -)       |
| Morila          |
| Measured        |
| 10 x 10         |
|                 |
|                 |
|                 |

Indicated 30 x 30

Inferred

50 x 50

Grade/Ore control 10 x 10 and

Blastholes were only used for  $50 \times 50$  sampling when there was insufficient RC coverage. Sadiola Measured  $20 \times 20$  and  $25 \times 25$ 

Indicated 25 x 50

Inferred >25 x 50

Grade/Ore control

5 x 10

Yatela Measured 10 x 10 and 25 x 25

Indicated 25 x 25 and 35 x 45

Inferred >25 x 25 and > 35 x 45

Grade/Ore control 5 x 10

92

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Ore Reserve estimation

The Mineral Resource models are used as the basis for the Ore

Reserves. Pit optimisation is done using Whittle® software. The typical

Whittle approach for a mill-constrained operation is followed.

Optimisations are run on Measured and Indicated Mineral Resources

and Measured, Indicated and Inferred Mineral Resources. All

appropriate costs, metallurgical recovery factors and geotechnical

parameters are applied to generate the final Ore Reserves.

Ore Reserve modifying factors (as at 31 December 2007)

Cut-off

(1)

Metallurgical

grade

Dilution

(2)

recovery

Other

Mine/Project

g/t (Au)

%

factor

(3)

factor

Morila – Pit

1.0

10%

89 - 91.5%

n/a

Morila - Stockpiles

n/a

n/a

60 - 91.5%

n/a

Sadiola - Pit

0.57 - 1.78

5%

80 - 93%

n/a

Yatela - Pit

0.52 - 1.30

13%

75 - 85%

n/a

- 1. A range of cut-offs indicate variable ore types.
- 2. Where no dilution factor is indicated the dilution is inherent in the resource model estimate.
- 3. A range of plant recoveries indicates variable ore types.

Mali operations: overview continued

Mineral Resource and Ore Reserve comparison by operation (attributable)

Gold content (million ounces)

% change % change from from 2006 Net diff 2006 Percentage Other before after after Mine/Project attributable Category 2006 Depletion(1) change(2) depletion 2007 depletion depletion Comments Morila 40% Resource 1.137 (0.293)(0.165)(15%)0.679 (0.458)(40%)Resource now quoted in LOM design shell Reserve 0.854 (0.222)(0.002)0% 0.630 (0.224)(26%)Depletion. Despite some drilling, no reserve conversion materialised Sadiola 38% Resource 2.957 (0.308)(0.715)(24%)1.934 (1.023)

```
(35\%)
Increase in costs (0.6Moz) and
revisions to methodology (0.1Moz)
Reserve
1.673
(0.436)
(0.843)
(50\%)
0.394
(1.279)
(76\%)
Impact of economic factors on deep
sulphides and stockpiles
Yatela
40%
Resource
0.497
(0.141)
(0.019)
(4\%)
0.337
(0.160)
(32\%)
Increases due to gold price and
exploration were offset by
decreases due to costs and
removal of KW18
Reserve
0.275
(0.144)
0.069)
25%)
0.200
(0.075)
(27\%)
Depletion offset by additions from
Cut 5E and Cut 7
Mali Totals
Resource
4.591
         (0.742)
(0.899)
(20\%)
2.950
           (1.641)
                     (36\%)
1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.
```

- 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change.

93

Mali operations: Morila

This mine is situated some 280km by road southeast of Bamako, the capital city of Mali, which is 600km south-east of Sadiola mine. Mining is from a single open-pit operation, utilising conventional truck and shovel methods.

Geology

The Morila orebody is located predominantly in metasediments within a broad NNW trending corridor of shearing. This shear zone has both near vertical and flat lying components. It is interpreted as being a second order shear off the main Banafin shear approximately 25km to the east. The Doubalakoro granite pluton bounds the sediments to the west and the Massigui granite to the east. The deposit occurs within a sequence of metamorphosed Birimian meta-sediments (amphibolite facies). Gold mineralisation is associated with silica feldspar alteration and the sulphide minerals arsenopyrite, pyrrhotite, and pyrite (with minor chalocopyrite).

Morila

94 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mineral Resource Metric **Imperial** Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Morila - Main Pit Measured 609 3.68 2,241 672 0.107 72 Indicated 1,600 3.57 5,704 1,763 0.104 183 Inferred 333 3.05 1,017 367 0.089 33 Total 2,542 3.53 8,962 2,802

0.103 288

Morila - Stockpiles

# Measured 6,955 1.74 12,109 7,666 0.051 389 Indicated Inferred Total 6,955 1.74 12,109 7,666 0.051 389 Morila – TSF Measured 17 2.91 48 18 0.085 Indicated Inferred

Total

17 2.91 48 18 0.085 Morila – Total Mineral Resource Measured 7,581 1.90 14,399 8,356 0.055 463 Indicated 1,600 3.57 5,704 1,763 0.104 183 Inferred 333 3.05 1,017 367 0.089 33 Total 9,514 2.22 21,120 10,487 0.065 679 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)

tonnes

(Mt) (oz/t) (Moz) Morila Measured Indicated Inferred Total Mineral Resource is contained in the LOM pit design. Morila: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 1.1 2006 -0.3 Depletion Gold price -0.2 Other 0.0 Exploration 0.7 2007 0

Cost

1.2 0.2 0 Methodology Change Morila: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 0.8 0.6 2007 0 Model change -0.2 Depletion 0.7 0.4 0 Scope change Change 0.8 0.6

Mali operations: Morila continued

0.5

95

Ore Reserve

Metric

Imperial

Au

Reserve

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Morila – Main Pit

Proved

575

3.64

2,094

634

0.106

67

Probable

1,676

3.19

5,351

1,848

0.093

172

Total

2,251

3.31

7,445

2,482

0.096

239

Morila - Stockpiles

Proved

4,669

2.04

9,506

5,146

0.059

306

Probable

2,286 1.14 2,603 2,520 0.033 84 Total 6,955 1.74 12,109 7,666 0.051 389 Morila – TSF Proved Probable 17 2.91 48 18 0.085 2 Total 17 2.91 48 18 0.085 2 Morila – Total Ore Reserve Proved 5,244 2.21 11,600 5,780 0.065 373 Probable 3,979 2.01 8,003 4,386 0.059 257

Total

9,223 2.13 19,603 10,166 0.062 630 Morila – Metric Tonnes above cut-off (millions) 0.00 1.80 0.00 Cut-off grade (g/t) 8.08 Ave grade above cut-off (g/t) 7.95 7.08 5.34 4.47 2.74 1.87 1.00 7.18 6.28 5.39 4.49 3.59 2.69 0.90 3.00 3.61 6.21 8.82 8.98 4.00 5.00 2.00 1.00 9.69 Tonnes above cut-off Ave grade above cut-off Morilla – Imperial Tons above cut-off (millions) 0.00 0.12 0.03 0.09 7.92

0.00

|                                     | E |
|-------------------------------------|---|
| Cut-off grade (oz/t)                |   |
| 9.89                                |   |
| 8.91                                |   |
| Ave grade                           |   |
| above cut-off (oz/t)                |   |
| 0.28                                |   |
| 0.25                                |   |
| 0.23                                |   |
| 0.20                                |   |
| 0.17                                |   |
| 0.14                                |   |
| 0.11                                |   |
| 0.00                                |   |
| 0.08                                |   |
| 0.05                                |   |
| 0.03                                |   |
| 6.93                                |   |
| 5.94                                |   |
| 4.95                                |   |
| 3.96                                |   |
| 2.97                                |   |
| 1.98                                |   |
| 0.99                                |   |
| 0.06                                |   |
| Tons above cut-off                  |   |
| Ave grade above cut-off             |   |
| Competent persons                   |   |
| Professional                        |   |
| Registration                        |   |
| Relevant                            |   |
| Type                                |   |
| Name                                |   |
| organisation                        |   |
| number                              |   |
| experience                          |   |
| Mineral Resource                    |   |
| TD Gell                             |   |
| AusIMM                              |   |
| 211795                              |   |
| 16 years                            |   |
| Ore Reserve                         |   |
| SK Ndele                            |   |
| AusIMM                              |   |
| 201772                              |   |
| 18 years  Grade tonnage information |   |
| Lyrada tannaga intermation          |   |

Grade tonnage information

96

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mali operations: Sadiola

Sadiola

Sadiola is situated in the north-west of Mali, 77km to the south of the regional capital of Kayes. Mining takes place in an open pit at Sadiola. Ore is treated in a 435,000-tonne-per-month gold plant. Geology

The Sadiola deposit is located within the Malian portion of the Keniéba- Kedougou window, a major early proterozoic – Birimian outlier along the NE margin of the Kenema – Man shield. The deposit is confined in the north of the window and the mineralised zone occurs along the Sadiola Fracture Zone (SFZ), over a drilled strike length of approximately 2,500m and remains open to the north and south. The observed alteration assemblages in the primary mineralisation point to a mesothermal origin for the gold deposit at Sadiola. The specific rocks that host the mineralisation are marbles and greywackes which have been intensely weathered to a maximum depth of 200m. A series of north-south trending faults occur that feed the Sadiola mineralisation. As a result of an east-west regional compression event, deformation occurs along a north-south striking marble-greywacke contact, increasing the porosity of this zone. North-east striking structures, which intersect the north-south contact, have introduced mineralisation, mainly within the marble where the porosity was greatest.

The Sadiola Hill deposit generally consists of two zones, an upper oxidised cap and an underlying sulphide zone. From 1996 until 2002, shallow saprolite oxide ore was the primary ore source. Since 2002, the deeper saprolitic sulphide ore has been mined, progressively replacing the depleted oxide reserves.

Imperial Au Au Resource Tonnes Grade tonnes Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)(oz/t) (000s)Sadiola – FE2 Measured Indicated Inferred 318 1.53 487 351 0.045 16 Total 318 1.53 487 351 0.045 16 Sadiola - FE3

97

Metric

Mineral Resource

# Measured Indicated 513 2.45 1,257 566 0.071 40 Inferred 239 2.45 587 264 0.072 19 Total 753 2.45 1,844 830 0.071 59 Sadiola – FE3S Measured Indicated 1,374 2.45 3,360 1,514 0.071 108 Inferred 63 2.80 177 70

0.082 6 Total

1,437 2.46 3,537 1,584 0.072 114 Sadiola – FE4 Measured Indicated 1,507 2.44 3,683 1,662 0.071 118 Inferred 428 2.46 1,054 472 0.072 34 Total 1,935 2.45 4,737 2,133 0.071 152 Sadiola – FN2 Measured Indicated 34 2.05 70 38 0.060 2 Inferred

144 0.69 99 158 0.020 3 Total 178 0.95 169 196 0.028 5 Sadiola - FN3 Measured Indicated Inferred 83 1.64 135 91 0.048 4 Total 83 1.64 135 91 0.048 Sadiola – Main Pit Measured 180 3.94 710 199 0.115 23 Indicated

10,139 3.19 32,380 11,177 0.093 1,041 Inferred 1,382 3.03 4,189 1,523 0.088 135 Total 11,701 3.19 37,279 12,898 0.093 1,199 Sadiola – Sekokoto Measured Indicated Inferred 395 1.55 612 435 0.045 20 Total 395 1.55 612 435 0.045 20 Sadiola – Stockpile Measured

6,641 1.29 8,578 7,320 0.038 276 Indicated Inferred Total 6,641 1.29 8,578 7,320 0.038 276 Sadiola - Tambali South Measured Indicated Inferred 1,625 1.70 2,770 1,791 0.050 89 Total

1,625

- 1.70
- 2,770
- 1,791
- 0.050
- 89

#### Sadiola – Total Mineral Resource

- Measured
- 10,071
- 1.47
- 14,828
- 11,101
- 0.043
- 477
- Indicated
- 26,889
- 2.27
- 61,118
- 29,640
- 0.066
- 1,965
- Inferred
- 44,886
- 2.04
- 91,598
- 49,479
- 0.060
- 2,945
- Total
- 108,537
- 2.12
- 230,463
- 119,642
- 0.062
- 7,410

Mali operations: Sadiola continued 98 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Sadiola Measured 5.0 0.84 4.2 5.5 0.025 0.1 Indicated 10.4 2.98 31.1 11.5 0.087 1.0 Inferred 4.6 2.15 9.9 5.1 0.063 0.3 Total 20.0

2.26 45.2 22.1 0.066 1.5

Sadiola Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 3.0 2006 -0.3 Depletion 0.2 Gold price -0.2 Other 0 Exploration 1.9 2007 -0.6 Cost 0 -0.1 Methodology Change 2.7 1.7 Sadiola: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 1.7 2006 0.4 2007 0 Model change -0.4 Depletion -0.9 Scope change Change 1.0 Inferred Mineral Resource in pit optimisation Inferred Mineral Resource was used in the pit optimisation process and 0.11 million ounces are present in the optimised pit, of which 0.06 million

ounces are included in the final production schedule.

99 Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)(oz/t) (000s)Sadiola – FE3 Proved Probable 675 2.40 1,620 744 0.070 52 Total 675 2.40 1,620 744 0.070 52 Sadiola - FE4 Proved

Probable

710 3.12 2,216 782 0.091 71 Total 710 3.12 2,216 782 0.091 71 Sadiola – Main Pit Proved 73 4.65 338 80 0.136 11 Probable 956 3.64 3,477 1,054 0.106 112 Total 1,029 3.71 3,815 1,134 0.108 123 Sadiola – Stockpile Proved 1,719 2.67 4,598 1,895 0.078 148 Probable 0 0 0 0.000 0

Total 1,719

2.67 4,598 1,895 0.078 148 Sadiola - Total Ore Reserve Proved 1,792 2.75 4,936 1,975 0.080 159 Probable 2,340 3.13 7,134 2,580 0.091 235 Total 4,132 2.96 12,250 4,555 0.086 394 Sadiola – Metric Tonnes above cut-off (millions) 0.00 19.71 0.00 Cut-off grade (g/t) 88.71 Ave grade above cut-off (g/t) 6.03 5.27 3.77 3.01 1.51 0.75 0.00 78.86 69.00 59.14 49.28 39.43

29.57 9.86

2.26 4.52 6.78 98.57 4.00 2.00 0.50 1.00 1.50 2.50 3.00 3.50 4.50 5.00 7.53 Tonnes above cut-off Ave grade above cut-off Sadiola - Imperial Tons above cut-off (millions) 0.00 0.07 0.10 0.12 0.03 0.09 86.92 0.00 0.13 Cut-off grade (oz/t) 108.65 97.79 Ave grade above cut-off (oz/t) 0.22 0.20 0.18 0.15 0.13 0.11 0.09 0.00 0.07 0.04 0.02 76.06 65.19 54.33 43.46 32.60 21.73 10.87 0.01 0.04 0.06

0.15

Tons above cut-off Ave grade above cut-off Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource S Robins AusIMM 222533 12 years Ore Reserve H Fourie **SAIMM** 19598

Grade tonnage information

24 years

100

AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mali operations: Yatela

Yatela

Yatela is situated some 25km north of Sadiola and approximately 50km south-southwest of Kayes. Mining takes place in an open pit. Geology

Yatela mineralisation occurs as a keel-shaped body in Birimian metacarbonates. The 'keel' is centred on a fault which was the feeder for the original mesothermal mineralisation, with an associated weakly mineralised diorite intrusion. This primary mineralisation was concentrated to economic grades through dissolution of carbonaterich rocks by supergene processes. Gold is disseminated in the unconsolidated ferruginous, sandy, locally clayed layer that lines the bottom of a deep trough (max 220m deep) with steep margins. The ore dips almost vertically on the west limb and more gently towards the west on the east limb, with tight closure to the south.

#### 101

Metagreywacke

Overburden

Fine Sandstone

Oxide Footwall

Dolomite

Diorite (Micro)

Main mineralised unit

(Orebody)

Coarse Sandstone

Pebble Zone

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(Kg)

(000s)

(oz/t)

(000s)

Yatela – Alamoutala Pit

Measured

3

0.91

2

3 0.026

0

Indicated 207

1.70

351

228

0.050

11

Inferred

6

1.38

8

7

0.040

0 Total 215 1.68 362 237 0.049 12 Yatela – Main Pit Measured 468 4.25 1,987 516 0.124 64 Indicated 797 3.98 3,171 879 0.116 102 Inferred 1,048 3.05 3,196 1,155 0.089 103 Total 2,313 3.61 8,353 2,550 0.105 269 Yatela – Stockpile Measured 1,673 1.05 1,762 1,844 0.031 57 Indicated

Inferred Total 1,673 1.05 1,762 1,844 0.031 57 Yatela – Total Mineral Resource Measured 2,144 1.75 3,751 2,363 0.051 121 Indicated 1,004 3.51 3,523 1,106 0.102 113 Inferred 1,054 2.49 3,204 1,162 0.089 103 Total 4,201 2.49 10,478 4,631 0.073 337

Geological cross-section 58500 (looking North).

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Mali operations: Yatela continued 102 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Inferred Mineral Resource in pit optimisation Inferred Mineral Resource were used in the pit optimisation process and 0.04 million ounces are present in the optimised pit. **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Yatela Measured 0.1 2.15 0.3 0.2 0.063 0.0 Indicated 0.2 1.82 0.4 0.2 0.053 0.0 Inferred 1.1 3.04 3.2 1.2 0.089 0.1

Total 1.4 2.76 3.9

1.6 0.080 0.1 Yatela: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 0.5 2006 -0.1 Depletion Gold price Other 0 Exploration 0.3 2007 0 Cost 0.2 0.1 0 Methodology Change 0.4 0.3 0.5 Yatela: Ore Reserve reconciliation 2006 vs 2007 Ounces (millions) 0.3 2006 0.2 2007 0 Model change -0.1 Depletion 0 0.1 Scope change Change

0.2 0.3

103 Ore Reserve Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t) (kg) (000s)(oz/t) (000s)Yatela – Alamoutala Pit Proved Probable 122 1.75 214 135 0.051 7 Total 122 1.75 214 135 0.051 Yatela – Main Pit Proved 321 4.43 1,420 353 0.129 46

Probable

702 4.01 2,815 774 0.117 91 Total 1,022 4.14 4,235 1,127 0.121 136 Yatela – Stockpile Proved 1,673 1.05 1,762 1,844 0.031 57 Probable Total 1,673 1.05 1,762 1,844 0.031 57 Yatela – Total Ore Reserve Proved 1,994 1.60 3,183 2,198 0.047 102 Probable 824 3.68 3,029 908 0.107 97

Total

2,817 2.20 6,211 3,106 0.064 200 Tonnes above cut-off Ave grade above cut-off Yatela – Metric Tonnes above cut-off (millions) 0.00 2.35 0.00 Cut-off grade (g/t) 10.57 Ave grade above cut-off (g/t) 10.14 8.87 6.33 5.07 2.53 1.27 0.00 9.40 8.22 7.05 5.87 4.70 3.52 1.17 3.80 7.60 11.40 11.74 2.50 5.00 12.67 0.50 1.00 2.00 3.00 3.50 4.50 1.50 4.00 Yatela – Imperial Tons above cut-off (millions)

0.00

0.07 0.10 0.12 0.03 0.09 10.36 0.00 0.13 Cut-off grade (oz/t) 12.95 11.65 Ave grade above cut-off (oz/t) 0.33 0.30 0.26 0.22 0.18 0.15 0.11 0.00 0.07 0.04 9.06 7.77 6.47 5.18 3.88 2.59 1.29 0.01 0.04 0.06 0.15 Tons above cut-off Ave grade above cut-off Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource **S** Robins AusIMM 222533 12 years Ore Reserve K Bartsch

AusIMM

10739020 yearsGrade tonnage information

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007

Namibia operations: overview

Mineral Resource estimation

Mineral Resource estimation is performed using Datamine® Software.

Block dimensions of 25m x 25m x 5m (X Y Z) and 25m x 125m x 5m  $^{\circ}$ 

are used as the prototype model. Grade interpolation is done into

these blocks using Ordinary and Indicator Kriging methods. A

geostatistical technique called Uniform Conditioning is then used to

estimate the proportion of economic ore that occur above the Mineral

Resource cut-off and this is reported according to the smallest mining

unit (SMU).

Operations

**NAMIBIA** 

Windhoek

Navachab

Tsumeb

Karibib

Walvis Bay

Luderitz

Keetmanshoop

Okahandja

Navachab gold mine is

wholly owned by

AngloGold Ashanti.

Mineral Resource and Ore Reserve gold price

Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

450

Exchange rate – South Africa

ZAR/US\$

7.70

6.50

Details of average drill-hole spacing and type in relation to Mineral Resource classification

Type of Drilling

Mine/Project

Category

Spacing

Diamond

**RC** 

Other

Comments

m(-x-)

Navachab Measured 10 x 10

Drill-hole spacing is reduced to 5m x 5m in complex ore. Indicated 25 x 25

Inferred 50 x 50

Grade/Ore control 5 x 10

105

Ore Reserve estimation

MineSight

(R)

optimisation software is used to generate optimised pit

shells using economic parameters. The final pits are then designed

based on the optimised pit shell, recommended slope geometry and

ramp access requirements.

Ore Reserve modifying factors (as at 31 December 2007)

Cut-off

Metallurgical

grade

Dilution

(1)

Recovery

Other

Mine/Project

g/t (Au)

%

Factor

Factor

Navachab

0.60

n/a

87 - 94%

N/A

1. Where no dilution factor is indicated the dilution is inherent in the resource model estimate.

Reserves are estimated using recovery percentage specific to rock-types. The West Pushback expansion is included in the reserve

Mineral Resource and Ore Reserve comparison by operation (attributable)

Gold content (million ounces)

% change

% change

from

from 2006

Net diff

2006

Percentage

Other

before

after

after

Mine/Project

attributable

Category

2006 Depletion(1)

change(2)

depletion 2007

depletion

depletion

Comments

| Navachab  |
|---|
| 100%  |
| Resource  |
| 3.771   |
| (0.115)   |
| 0.767   |
| 20%   |
| 4.423   |
| 0.652   |
| 17%   |
| Depletion was offset by increases due   |
| to improved gold price, costs and   |
| exploration   |
| Reserve   |
| 0.716   |
| (0.091)   |
| 0.842   |
| 118%  |
| 1.467   |
| 0.751   |
| 105%  |
| Improved economics have brought in  |
| an additional push back to the west of  |
| the main pit  |
| Namibia Totals  |
| Resource  |
| 3.771 (0.115)   |
| 0.767   |
| 20%   |
| 4.423 0.652 17%   |
| Reserve   |
| 0.716 (0.091)   |
| 0.842   |
| 118%  |
| 1.467 0.751 105%  |
| 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.  |
| 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope |
| change.   |
|   |

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Namibia operations: Navachab

Navachab

Navachab gold mine is located 10km south-west of Karibib and 170km north-west of Windhoek, the capital of Namibia. Navachab mine is an open-pit mine. Its processing plant, with a production capacity of 110,000 tonnes per month, includes mills, CIP and electrowinning facilities.

Geology

The Navachab gold deposit is located in the Pan-African Damara Orogen and is hosted by Damaran greenschist-amphibolite facies, calc-silicates, marbles and volcano-clastics. The rocks have been intruded by granites, pegmatites and (quartz-porphyry dykes) aplite and have also been deformed into a series of alternating dome and basin structures. The mineralised zone forms a sheet-like body which plunges at an angle of approximately 20° to the north-west. The mineralisation is predominantly hosted in a sheeted vein set (±60%) and a replacement skarn body (±40%). The mineralisation in the Main Pit is hosted by a NE-SW striking metamorphosed sequence of greenschistamphibolite facies, calc-silicates, marbles and volcanoclastics rocks that dip at 70° to the west. The gold is very fine-grained and associated with pyrrhotite and minor amounts of pyrite, chalcopyrite, maldonite and bismuthinite. An estimated 90% of the gold occurs as free gold and the remainder is present in minerals such as maldonite (Au2Bi). Approximately 80% of the gold is free milling. Silver is also present and the gold to silver ratio is approximately 15 to 1.

| <u> </u>  |
|---|
| 107   |
| W   |
| Karibib FM  |
| Oberwasser FM   |
| Oxide   |
| (MDMV)  |
| Okawayo FM  |
| MC  |
| Zone  |
| SC  |
| LS  |
| LSC   |
| LS  |
| Etusis FM   |
| Chuos FM  |
| Oxide   |
| Calcrete Save Page FM   |
| Spes Bona FM  |
| 35m   |
| An E-W section through the valley hosting the Navachab mineralisation. LS refers to mainly quartzbiotite schist |
| (BISH) rock type and LSC refers to calc-silicate bearing rock (CS or BSC).  Mineral Resource                    |
| Metric Metric   |
| Imperial  |
| Au  |
| Resource  |
| Tonnes  |
| Grade   |
| Au  |
| Tons  |
| Grade   |
| ounces  |
| Mine/Project  |
| category  |
| (000s)  |
| (g/t)   |
| (kg)  |
| (000s)  |
| (oz/t)  |
| (000s)  |
| Navachab – Anomaly 16   |
| Measured  |
| -   |
|   |
|   |
|   |
|   |
|   |
| Indicated 1.170   |
| 1,179   |
| 1.31  |

1,539 1,299 0.038 49 Inferred 1,362 1.09 1,482 1,501 0.032 48 Total 2,540 1.19 3,021 2,800 0.035 97 Navachab – Gecko Measured Indicated 377 2.02 760 415 0.059 24 Inferred 25 1.09 27 28 0.032 Total 402 1.96 787 443 0.057 Navachab - Grid A Measured 485 2.53

1,229 535 0.074 40 Indicated 263 1.96 515 290 0.057 17 Inferred 86 1.23 106 95 0.036 3 Total 834 2.22 1,851 919 0.065 59 Navachab - Main Pit Measured 1,170 1.61 1,883 1,289 0.047 61 Indicated 57,464 1.30 74,644 63,343 0.038 2,400 Inferred 43,768 1.13 49,273 48,246 0.033 1,584 Total

102,402 1.23 125,800

112,878 0.036 4,045 Navachab – Total Stockpiles Measured 9,997 0.61 6,113 11,020 0.018 197 Indicated Inferred Total 9,997 0.61 6,113 11,020 0.018 197 Navachab -Measured 11,652 0.79 9,226 12,844 0.023 297 **Total Mineral Resource** Indicated 59,282 1.31 77,458 65,347 0.038 2,490 Inferred 45,241

1.12

50,889

49,870

0.033

1,636

Total

116,176

1.18

137,573

128,062

0.035

4,423

Namibia operations: Navachab continued 108 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Navachab Measured 5.9 0.58 3.4 6.5 0.017 0.1 Indicated 32.0 1.18 37.6 35.2 0.034 1.2 Inferred 45.2 1.12 50.9 49.9 0.033 1.6 Total 83.1

1.11 91.9 91.6 0.032 3.0

This exclusive Mineral Resource comprises largely main pit and to a lesser extent anomaly 16 and the gecko orebodies which form

potentially future Ore Reserves dependant on the gold price and completion of technical studies.

Inferred Mineral Resource in business plan

Inferred Mineral Resource was used in the pit optimisation process and 0.13 million ounces are present in the optimised pit of which 0.10 million

ounces are included in the final production scheduling.

Navachab: Mineral Resource reconciliation

2006 vs 2007

Ounces (millions)

3.8

3.8

2006

-0.1

Depletion

0.6

Gold price

0.0

Other

0.1

Explo-

ration

4.4

2007

0.1

Cost

4.2

3.6

3.4

-0.2

Metho-

dology

Change

4.0

Navachab: Ore Reserve reconciliation

2006 vs 2007

Ounces (millions)

0.7

2006

1.5

2007

0.1

Model

change

-0.1

Depletion

0.6

0.7

Scope

change

Change

- 0.8
- 1.0
- 1.2
- 1.4

109 Ore Reserve Metric Imperial Au Reserve Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t) (000s)Navachab - Grid A Proved 460 2.64 1,215 507 0.077 39 Probable 202 1.21 244 222 0.035 8 Total 662 2.21 1,460 729 0.064 47 Navachab - Main Pit

Proved

789

1.79

1,412

870

0.052

45

Probable

27,110 1.46 39,612 29,883 0.043 1,274 Total 27,899 1.47 41,024 30,753 0.043 1,319 Navachab – Total Stockpiles Proved 4,515 0.70 3,160 4,977 0.020 102 Probable Total 4,515 0.70 3,160 4,977 0.020 102 Navachab – Total Ore Reserve Proved 5,764 1.00 5,787 6,354 0.029 186 Probable 27,311 1.46 39,856 30,106 0.043 1,281

Total

33,075 1.38 45,643 36,459 0.040 1,467 Navachab - Metric Tonnes above cut-off (millions) 0.00 71.11 0.00 Cut-off grade (g/t) 320.00 Ave grade above cut-off (g/t) 5.27 4.61 3.29 2.63 1.32 0.66 0.00 284.44 248.89 213.33 177.78 142.22 106.67 35.56 3.00 1.98 3.95 5.93 355.55 4.00 5.00 2.00 0.50 1.00 1.50 2.50 3.50 4.50 Tonnes above cut-off Ave grade above cut-off Navachab – Imperial Tons above cut-off (millions) 0.00 0.07

0.10 0.12 0.03 0.09 313.54 0.00 0.13 Cut-off grade (oz/t) 391.93 352.74 Ave grade above cut-off (oz/t) 0.19 0.17 0.15 0.13 0.12 0.10 0.08 0.00 0.06 0.04 0.02 274.35 235.16 195.96 156.77 117.58 78.39 39.19 0.01 0.04 0.06 0.15 Tons above cut-off Ave grade above cut-off Competent persons Professional Registration Relevant Type Name organisation number experience Mineral Resource FP Badenhorst AusIMM 211026 15 years Ore Reserve R Schommarz AusIMM

222570 17 years Grade tonnage information

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mineral Resource and Ore Reserve gold price

Units

2007

2006

Mineral Resource gold price

US\$/oz

700

650

Ore Reserve gold price

US\$/oz

600

550

Operations

**TANZANIA** 

Geita

Dar es Salaam

Arusha

Mwanza

Kigoma

Tabora

Dodoma

Tanga

Lake

Nyasa

Lake

Tanganyika

Lake

Victoria

0

800km

Geita is the largest of AngloGold Ashanti's seven open-pit mines in Africa. Prior to April 2004, Geita was managed under the joint venture agreement between Ashanti and AngloGold. After the merger of the two companies, Geita is now a wholly owned subsidiary.

As with any estimation techniques the results are very dependent upon the data quality and availability. The geological model is a critical input to the Mineral Resource estimation process. The orebody boundaries for the individual deposits are defined from the detailed logging of all geological boreholes and after validation this information is used to create a three dimensional model. This model is subsequently populated with an appropriately dimensioned block model. The size of this block model is determined by analysing different block sizes in relation to the variance of the blocks. A block size which gives an optimal variance is then chosen. (40m x 40m x 5m) ordinary kriging is used to interpolate values into the blocks. A geostatistical technique called Uniform Conditioning is then used to estimate the proportion of

economic ore that occur above the Mineral Resource cut-off and this is reported according to the selective mining unit (SMU).

Details of average drill-hole spacing and type in relation to Mineral Resource classification

Type of Drilling

Mine/Project

Category

Spacing

Diamond

RC

Other

Comments

m (- x -)

Geita

Measured

10 x 10

Indicated

40 x 40

Inferred

50 x 50

Tanzania operations: overview Mineral Resource estimation

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Ore Reserve estimation

The Mineral Resource models as produced by the geology department are used as the basis for the Ore Reserve. Appropriate mining dilution is used as a modifying factor in the Ore Reserve conversion process. Appropriate reserve cut-off grades are applied and optimised pit shells are generated taking into cognisance the economic parameters. The final pits are then designed taking into consideration the optimised pit shell and recommended slope geometry.

Ore Reserve modifying factors (as at 31 December 2007)

Cut-off

Metallurgical

grade

Dilution

(1)

recovery

Other

Mine/Project

g/t (Au)

%

factor

factor

Comments

Geita

0.8 - 3.0

4% - 12%

66% - 95%

n/a

Recovery and cut-off grade vary

with pit and ore type.

1. Where no dilution factor is indicated the dilution is inherent in the resource model estimate.

Mineral Resource and Ore Reserve comparison by operation (attributable)

Gold content (million ounces)

% change

% change

from

from 2006

Net diff

2006

Percentage

Other

before

after

after

Mine/Project

attributable

Category

2006 Depletion(1)

change(2)

depletion 2007

```
depletion
depletion
Comments
Geita
100%
Resource
14.736
(0.726)
(1.556)
(11%) 12.454
(2.282)
(15\%)
Increase in cost (1.6Moz) and revision
to estimation methodology (0.6Moz)
Reserve
8.474
(0.477)
(1.516)
(18\%)
6.481
(1.993)
(24\%)
Reconciliation factors (0.8Moz),
flattening of slopes (0.5Moz), modelling
revisions (0.2 Moz) and costs (0.1Moz)
Tanzania Totals
Resource
14.736
          (0.726)
(1.556)
(11%) 12.454
                 (2.282)
                            (15\%)
Reserve
8.474
         (0.477)
(1.516)
(18\%)
6.481
          (1.993)
                     (24\%)
```

- 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.
- 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change.

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Tanzania operations: Geita

Geita

Geita gold mine is located approximately 910km from Dar es Salaam in the Lake Zone of Northern Tanzania; the tenement is geologically situated within the Sukumaland Greenstone Belt of the Lake Victoria goldfields which hosts other gold mines including Golden Pride, Bulyanhulu, Tulawaka and North Mara. This geological terrain is considered to be one of the most productive Archaean Greenstone Belts in East Africa. Mining at Geita is undertaken by standard openpit mining methods.

Geology

The Geita Greenstone trend is a component of the Sukumaland Greenstone Belt; it strikes east-west, is 60km long and up to 15km wide. The terrain is made up of upper to mid-Nyanzian greenstone facies rocks, mainly clastic sediments, intermediate to felsic volcaniclastics and Banded Iron Formation that forms a sedimentary sequence up to 1,000m thick. In the mine lease area, north west trending deformation corridors separate the Geita Greenstone trend into three distinct sub-terrains, which have been named Nyamulilima in the west, Geita in the central part and Kukuluma to the north-east. Late dextral faults have utilised these corridors, reactivating the preexisting fault systems. Gold mineralisation and hydrothermal alteration of the host lithologies, on all scales, is associated with late stage ductile to brittle-ductile deformation.

113 **NYRC 126** 36m@6.2g/t **NYRC 223** 37m@7.1g/t **NYRC 228** 24m@5.1g/t **NYRC 327** 27m@5.3g/t **NYRC 355** 15m@9.1g/t **NYRC 536** 17m@7.1g/t NYDD 32 19m@4.6g/t NYDD 31 26m@3.9g/t **NYRC 133** 30m@10.2g/t SE NW 1000m RL 500m RL Nyankanga section 50 120m E 500m Ferricrete Quartz porphyry Felsic porphyry Plagioclase-porphyritic diorite Mineralisation Diorite (shown in boreholes only) BIF (shown in boreholes only) Current pitshell **LOM** pitshell Nyankanga section showing the ore body geometry Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade

ounces Mine/Project category

(000s)(g/t) (kg) (000s)(oz/t) (000s)Geita – Surface Measured 6,308 1.20 7,555 6,954 0.035 243 Indicated 76,140 3.48 265,033 83,930 0.102 8,521 Inferred 13,377 2.76 36,943 14,746 0.081 1,188 Total 95,825 3.23 309,531 105,629 0.094 9,952 Geita – Underground Measured Indicated 8,283 5.92 49,026 9,130 0.173 1,576

Inferred

5,182 5.56 28,810 5,712 0.162 926 Total 13,465 5.78 77,837 14,842 0.169 2,503 Geita – Measured 6,308 1.20 7,555 6,954 0.035 243 **Total Mineral Resource** Indicated 84,423 3.72 314,059 93,061 0.109 10,097 Inferred 18,559 3.54 65,753 20,458 0.103 2,114 Total 109,290

3.54 387,367 120,472 0.103 12,454

Tanzania operations: Geita continued 114 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Exclusive Mineral Resource Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Geita Measured Indicated 30.1 3.70 111.4 33.2 0.108 3.6 Inferred 18.6 3.54 65.8 20.5 0.103 2.1 Total 48.6 3.64 177.1 53.6

0.106 5.7

Inferred Mineral Resources in business plan

Inferred Mineral Resource is used in the pit optimisation process and 0.6 million ounces are present in the optimised pit of which 0.13 million ounces

are included in the final production scheduling.

Geita: Mineral Resource reconciliation

2006 vs 2007

Ounces (millions)

14.7

2006

-0.7

Depletion

0.6

Gold price

0

Other

0.2

Explo-

ration

12.4

2007

-1.7

Cost

11.4

9.4

-0.6

Metho-

dology

Change

15.4

13.4

12.4

14.4

10.4

Geita: Ore Reserve reconciliation

2006 vs 2007

Ounces (millions)

8.5

2006

6.5

2007

-0.3

Model

change

-0.5

Depletion

4.5

-1.3

Scope

change

Change

5.5

7.5

6.5

Ore Reserves

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Geita – Surface

Proved

5,621

1.01

5,701

6,196

0.030

183

Probable

62,368

3.14

195,881

68,749

0.092

6,298

Total

67,989

2.96

201,582

74,945

0.086

6,481

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Tonnes above cut-off

Ave grade above cut-off

Geita Surface - Metric

Tonnes above

cut-off (millions)

0.00

41.81

0.00

Cut-off grade (g/t)

Ave grade

above cut-off (g/t)

9.07

7.86

5.43

4.21

3.00

125.42

111.49

97.55

27.87

\_,..,

13.94 1.00

2.00

3.00

4.00

5.00

6.64

55.74

69.68

83.61

139.36

3.61

4.82

6.04

7.25

8.47

Geita Surface - Imperial

Tons above

cut-off (millions)

0.00

46.08

0.00

Cut-off grade (g/t)

Ave grade

above cut-off (g/t)

0.26

0.21

0.11

0.05

0.00

138.25 122.89 107.53 30.72 15.36 0.03 0.06 0.09 0.12 0.16 61.45 76.81 92.17 153.61 0.03 0.08 0.13 0.19 0.24 Tons above cut-off Ave grade above cut-off Geita Underground – Metric Tonnes above cut-off (millions) 0.00 27.87 0.00 Cut-off grade (g/t) 125.42 Ave grade above cut-off (g/t) 13.17 11.90 9.35 8.08 5.54 4.27 3.00 111.49 97.55 83.61 69.68 55.74 41.81 13.94 3.00 8.00 6.81 10.62

14.44 1.00

2.00 6.00 7.00 9.00 139.36 4.00 15.71 5.00 10.00 Tonnes above cut-off Ave grade above cut-off Geita Underground – Imperial Tons above cut-off (millions) 0.00 0.15 0.20 0.23 0.06 0.18 122.89 0.00 0.26 Cut-off grade (oz/t) 153.61 138.25 Ave grade above cut-off (oz/t) 0.46 0.41 0.37 0.32 0.27 0.23 0.18 0.00 0.14 0.09 0.05 107.53 92.17 76.81 61.45 45.08 30.72 15.36 0.03 0.09 0.12 0.29 Tons above cut-off Ave grade above cut-off Competent persons

Professional

Registration
Relevant
Type
Name
organisation
number
experience
Mineral Resource
J Gaunt
AusIMM

220840

12 years

Ore Reserve

E Smuts

AusIMM

211798

12 years

Grade tonnage information

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Mineral Resource and Ore Reserve gold price

Units

2007

2006

Mineral Resource Gold Price

US\$/oz

700

650

Ore Reserve Gold Price

US\$/oz

600

550

Operations

UnitedStates

Cripple Creek

& Victor

Washington

DC

New York

Chicago

Denver

Colorado

San

Francisco

Los

Angeles

0

1000km

In March 1999 AngloGold Ashanti acquired the Pikes Peak Mining Company, and interests in the Cripple Creek & Victor Gold Mining Company (CC&V) and the Jerritt Canyon joint ventures. The stake in the Jerritt Canyon joint venture was sold to Queenstake in mid-2003. AngloGold Ashanti (Colorado) Corporation holds a 67% interest in CC&V with a 100% interest in gold produced until loans extended to the joint venture are repaid.

Mineral Resource estimation

A single unified Mineral Resource model has been developed for the entire district. The unified model encompasses all known deposits and drilling within the CC&V property. Smaller sub-models are maintained for Altman and Wild Horse to accommodate the vertical shift in the mining benches. The estimation method is MIK and the primary variable estimated is the recoverable gold (not contained gold). An estimated iron and oxide model is utilised to interpolate block specific coefficients for input into the metallurgical recovery function.

The method for calculating nominal shake leach values (SLV) is a robust regression technique using geologically logged categorical variables. Modelling software is MineSight® and updated drill hole

information is used throughout. The drill-hole database is thoroughly reviewed before each Mineral Resource estimation and the estimation domains are based primarily on lithology for each deposit.

Details of average drill-hole spacing and type in relation to Mineral Resource classification

Type of Drilling

Mine/Project

Category

Spacing

Diamond

RC

Other

Comments

m(-x-)

CC&V

Measured

<30 x 30

Indicated

>30 x 30

Use probability field to delineate Measured and Indicated Resource.

Inferred

>30 x 30

Double search range.

Grade/Ore

5 x 6

Blastholes are used.

Control

United States operations: overview

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Inferred Mineral Resource in business plan

Inferred Mineral Resource is not used in the pit optimisation.

Ore Reserve estimation

The Ore Reserve pit designs were based on Lerch-Grossman (LG) optimisations of the geological model. The LG algorithm applies economic values to individual blocks and then generates a pit shell based on geotechnical constraints. Successive nested shells are generated until the economic limits of the pit are established. These shells are then used as a template for final mine design. Pit slope designs for all deposits were based on geotechnical studies and fell into two categories of overall angles (60° and 45°). All deposits were designed using a 10.7m (35 feet) bench height.

Ore Reserve modifying factors (as at 31 December 2007)

Cut-off

Metallurgical

grade

Dilution

(1)

Recovery

Other

Mine/Project

g/t (Au)

%

Factor

Factor

CC&V

0.24

n/a

62%

n/a

1. Where no dilution factor is indicated the dilution is inherent in the resource model estimate. Mineral Resource and Ore Reserve comparison by operation (attributable)

Gold content (million ounces)

% change

% change

from

from 2006

Net diff

2006

Percentage

Other

before

after

after

Mine/Project

attributable

Category

2006 Depletion(1)

change(2)

depletion

depletion Comments CC&V 100% Resource 7.333 (0.560)5.295 72% 12.068 4.735 65% Primarily revisions to the methodology with contribution from improved economics and exploration Reserve 3.842 (0.560)1.471 38% 4.753 0.911 24% Extension to mine life **USA** Totals Resource 7.333 (0.560)5.295 72% 12.068 65% 4.735 Reserve 3.842 (0.560)

38% 4.753

0.911

24%

2007 depletion

1.471

- 1. Depletion: reduction in reserves based on ore delivered to the plant and corresponding reduction in resource.
- 2. Other change: combination of changes due to gold price, cost, exploration, methodology, model change and scope change.

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AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 United States operations: Cripple Creek and Victor (CC&V)

CC&V is located south-west of Colorado Springs in the state of
Colorado in the United States. Large-scale surface mining began in
1991 and grew with the start of production at the CC&V Cresson
Project in 1994. Today, CC&V is a low-grade, open-pit operation. The
ore is treated using a valley-type, heap-leach process with activated
carbon used to recover the gold. The resulting doré buttons are
shipped to a refinery for final processing.
Geology

The dominant geological feature of the District is an intenselyaltered, alkaline Tertiary-aged, diatreme-intrusive complex hosted in Precambrian rocks located between the towns of Cripple Creek and Victor. The Precambrian rocks consist of biotite gneiss, granodiorite, quartz monzonite and granite. The diatreme intrusive complex is 6.4km long, 3.2km wide and consists of diatremal breccia that has been intruded by stocks, dykes and discordant breccias. Diatremal breccia lithologies include breccias composed exclusively of volcanic, Precambrian or sedimentary material to any combination of the three. Early intrusions are predominantly within the alkaline phonolite-phonotephrite petrographic series and were followed by later lamprophyres. All rocks have undergone a complex history of structural deformation and hydrothermal activity. Gold mineralisation, dated between 27.8 Ma and 26.6 Ma is hosted in all rock types as veins and disseminated and/or structurallycontrolled orebodies.

The majority of the complex in-filled with the eruptive phase Cripple Creek Breccia host rock. This complex was subsequently intruded by a series of Tertiary-aged intrusive dykes and sills that included syenites, phonolites, phonotephrites and lamprophyres. These intrusives occupy all of the dominant district structural orientations as do laccoliths and cryptodomes. District structures are generally near vertical and strike north-northwest to north-east. These structures are commonly intruded by phonolite dykes which appear to have also acted as primary conduits for the late-stage, gold mineralising solutions. Higher grade pods of mineralisation occur at structural intersections and/or as sheeted vein zones along zones of strike deflection. High-grade gold mineralisation is associated with K-feldspar + pyrite +/- carbonate alteration and occurs adjacent to the major structural and intrusive dyke zones. The broader zones of disseminated mineralisation occur primarily as micro-fracture halos around the stronger alteration zones in the more permeable Cripple Creek Breccia wall rocks.

The average depth of oxidation is 120m and is also developed along major structural zones to even greater depths. Individual orebodies can be tabular, pipe-like, irregular or massive. Individual gold particles are generally less than 20 microns in size and occur as native gold with pyrite or native gold after gold-silver tellurides. Gold occurs within hydrous iron and manganese oxides and as gold-silver tellurides. Silver is present but is economically unimportant. Gold mineralisation can be encapsulated by iron and manganese oxides, pyrite, K-feldspar

alteration and quartz. Cripple Creek and Victor (CC&V) 119

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(02/1)

(000s)

CC&V - Main Pit

Measured

250,115

0.81

203,326

275,704

0.024

6,537

Indicated

173,457

0.73

126,091

191,204

0.021

4,054

Inferred

70,552

0.65

45,948

77,770

0.019

1,477

Total

494,124

0.76

375,364

544,678

0.022

12,068

CC&V Total

Measured

250,115 0.81 203,326 275,704 0.024 6,537 Indicated 173,457 0.73 126,091 191,204 0.021 4,054 Inferred 70,552 0.65 45,948 77,770 0.019 1,477 Total 494,124 0.76 375,364 544,678 0.022 12,068 **Exclusive Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (Mt) (g/t)tonnes (Mt) (oz/t)

(Moz) CC&V Measured 142.2 0.70 99.5

156.8 0.020 3.2 Indicated 125.9 0.65 82.1 138.7 0.019 2.6 Inferred 70.6 0.65 45.9 77.8 0.019 1.5 Total 338.7 0.67 227.5 373.3 0.020 7.3 CC&V: Mineral Resource reconciliation 2006 vs 2007 Ounces (millions) 7.3 2006 -0.6 Depletion 1.6 Gold price 0.0 Other 1.2 Exploration 12.0 2007 0.0 Cost 6.8 2.5 Methodology Change 7.8 8.8

9.8 11.8

10.8

Cripple Creek and Victor: Ore Reserve reconciliation

2006 vs 2007

Ounces (millions)

3.8

2006

2.6

2007

0.7

Model

change

-0.6

Depletion

3.7

0.7

-1.3

Scope

change

Change

1.7

2.7

United States operations: CC&V continued 120 AngloGold Ashanti Supplementary Information: Mineral Resources and Ore Reserves 2007 Ore Reserve Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t) (000s)CC&V - Main Pit Proved 107,868 0.96 103,848 118,904 0.028 3,339 Probable 47,586 0.92 43,988 52,455 0.027 1,414 Total 155,454 0.95 147,836 171,359 0.028 4,753 CC&V Total Proved

107,868 0.96 103,848 118,904 0.028

```
3,339
Probable
47,586
0.92
43,988
52,455
0.027
1,414
Total
155,454
0.95
147,836
171,359
0.028
4,753
Cripple Creek & Victor - Metric
Tonnes above
cut-off (millions)
0.40
30.00
0.00
Cut-off grade (g/t)
Ave grade
above cut-off (g/t)
8.00
7.00
4.00
2.00
0.00
Tonnes above cut-off
Ave grade above cut-off
80.00
70.00
20.00
10.00
0.60
0.80
1.00
1.20
1.40
1.60
6.00
40.00
50.00
60.00
1.80
1.00
3.00
5.00
```

Cripple Creek & Victor - Imperial

| Tons above              |
|-------------------------|
| cut-off (millions)      |
| 0.005                   |
| 300.00                  |
| 0.00                    |
| Cut-off grade (g/t)     |
| Ave grade               |
| above cut-off (g/t)     |
| 0.14                    |
| 0.08                    |
| 0.04                    |
| 0.00                    |
| 100.00                  |
| 0.010                   |
| 0.015                   |
| 0.020                   |
| 0.025                   |
| 0.030                   |
| 0.12                    |
| 400.00                  |
| 500.00                  |
| 0.02<br>0.06            |
| 0.10                    |
| 200.00                  |
| Tons above cut-off      |
| Ave grade above cut-off |
| Competent persons       |
| Professional            |
| Registration            |
| Relevant                |
| Type                    |
| Name                    |
| organisation            |
| number                  |
| experience              |
| Mineral Resource        |
| L Billingsley           |
| AusIMM                  |
| 224930                  |
| 18 years                |
| Ore Reserve             |
| L Billingsley           |
| AusIMM                  |
| 224930                  |
| 18 years                |

Grade tonnage information

Russell and Associates

www.anglogoldashanti.com

#### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

AngloGold Ashanti Limited Date: March 31, 2008

By:

/s/ L Eatwell\_\_\_\_

Name: L EATWELL Title: Company Secretary