ANGLOGOLD ASHANTI LTD

Form 6-K

March 29, 2007

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 29, 2007

Commission File Number 1-14846

AngloGold Ashanti Limited

(Translation of registrant's name into English)

11 Diagonal Street

Johannesburg, 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 AshantD6 Supplementary Information:

Mineral Resource and Ore Reserve

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It is AngloGold Ashanti policy to report its Mineral Resource and Ore Reserve in accordance with the JORC and SAMREC codes.

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Mineral Resource and Ore Reserve 2006

MINERAL RESOURCE AND ORE RESERVE

Moz

December 2005 Mineral Resources

175.8

Reductions

2006 total depletion

-8.3

Tau Tona – areas on both the Ventersdorp Contact Reef and Carbon Leader Reef Shaft Pillars were determined not to have economic potential.

-1.9

Moab Khotsong – due to new exploration drilling

-1.4

Sadiola – due to a change in methodology when compared to the 2005 Mineral Resource

-0.9

Bibiani Mine – due to sale of asset

-0.9

Other – total of non-significant changes

-0.5

Additions

Obuasi – due to exploration and changes in estimation methodology below 50 level area

5 2

Boddington – due to successful exploration

2.1

Navachab – due to successful exploration, increased gold price and improved mining efficiencies.

2 1

Geita – due to revised Mineral Resource Models, successful exploration and increased gold price.

2 1

Siguiri – due to successful exploration and increased gold price.

1.5

Savuka – due to increased gold price

1.2

Cripple Creek and Victor – due to successful exploration and gold price

1.1

Iduapriem – due to increased gold price

0.7

Cerro Vanguardia – due to successful exploration

0.6

West Wits Surface – due to inclusion of tailing dams as a result of the increased gold price

0.5

Serra Grande – due to the successful exploration in the Open Pit and Mina Nova areas

0.2

Yatela – due to increased gold price

0.2

Other – total of non-significant changes

2.0

December 2006 Mineral Resources

181.6

Ore Reserves and Mineral Resources 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.

Mineral Resources

The 2006 Mineral Resource increased by 14.1 million ounces to 181.6 million ounces before depletion. After a depletion of 8.3 million ounces, the net increase is 5.8 million ounces. Mineral Resources were estimated at a gold price of \$650 per ounce in contrast to the \$475 used in 2005. The increased gold price resulted in an increase of 5.8 million ounces while successful exploration and revised modelling resulted in a further increase of 7.6 million ounces.

AngloGold Ashanti

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MINERAL RESOURCE AND ORE RESERVE

Ore Reserves

Total AngloGold Ashanti Ore Reserves increased from 63.3 million ounces in 2005 to 66.9 million ounces in December 2006. A year-on-year increase of 10.1 million ounces (16%) occurred before depletion and an increase of 3.6 million ounces (6%) occurred after depletion.

A gold price of \$550 was used for Ore Reserve estimates in contrast to the \$400 used in 2005. The change in economic assumptions made from 2005 to 2006 resulted in the Ore Reserve increasing by 3.7 million ounces while exploration and modelling resulted in an additional increase of 6.6 million ounces.

Moz

December 2005 Ore Reserves

63.3

Reductions

2006 total depletion

-6.5

Moab Khotsong – due to drop in values as a result of drilling

-0.4

Bibiani Mine – due to sale of asset

-0.1

Other – total of non-significant changes

-0.4

Additions

Mponeng – due to the inclusion of the VCR below 120 level project and higher gold price

2.9

Cripple Creek and Victor – due to planned extension of life

1.1

Sadiola – due to the inclusion of the Deep Sulphide Project

1.0

Boddington – due to upgrade of Inferred Mineral Resources in the Pit and increased gold and copper prices.

0.7

Sunrise Dam – due to inclusion of North-Wall Cutback and Cosmo Ore-bodies because of an increased gold price 0.7

Iduapriem – due to increased gold price

0.5

Tau Lekoa – due to increased gold price

0.5

AGA Mineração – due to Córrego do Sítio Sulphide exploration drilling and Cuiabá development

0.5

Cerro Vanguardia – due to successful exploration program and increased gold price

0.4

Siguiri – additional pit included due to increased gold price

0.4

Navachab – due to the increased gold price marginal ore is now economic and the pit is larger

0.3

Savuka – due to the increased gold price

0.3

Yatela – due to the inclusion of an additional cutback

0.2

Serra Grande – due to incorporation of an open pit and the development of levels with higher tons than expected

0.2

Morila – due to the increased gold price marginal ore is now economic

0.1

Other – total of non-significant changes

1.4

December 2006 Ore Reserves

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_Mineral Resource and Ore Reserve 2006 MINERAL RESOURCE AND ORE RESERVE

By-products

A number of by-products are recovered as a result of the processing of gold ore reserves. These include 11.8 thousand tonnes of uranium from the South African operations, 0.19 million tonnes of copper from Australia, 0.50 million tonnes of sulphur from Brazil and 24.5 million ounces of silver from Argentina. Details of the by-product Mineral Resources and Ore Reserves are given in the supplementary statistics document which is available on the corporate website, www.AngloGoldAshanti.com.

Audit of 2005 Mineral Resource and Ore Reserve statement

During the course of the year, the AngloGold Ashanti 2005 Mineral Resource and Ore Reserve Statement was submitted to independent consultants for review. The mineral resources and ore reserves from six of AngloGold Ashanti's global operations were selected and reviewed. The company has been informed that the audit identified no material shortcomings in the process by which AngloGold Ashanti's reserves and resources were evaluated. It is the company's intention to continue this process so that all its operations will be audited over a three-year period. The audit of those operations selected for review during 2007 is currently in progress.

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

AngloGold Ashanti

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MINERAL RESOURCE AND ORE RESERVE

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, 16 years experience.

Competent persons for AngloGold Ashanti's Mineral Resources are:

VA Chamberlain, MSc (Mining Engineering), BSc (Hons) (Geology), MAusIMM, 21 years experience.

MF O'Brien, MSc (Mining Economics), BSc (Hons) (Geology), Dip Data, Pr.Sci.Nat., MAusIMM, 27 years experience.

Competent persons for AngloGold Ashanti's Ore Reserves are:

CE Brechtel, MSc (Mining Engineering), MAusIMM, 31 years' experience.

D L Worrall, ACSM, MAusIMM, 26 years' experience.

J van Zyl Visser, MSc (Mining Engineering), BSc (Mineral Resource Management), PLATO, 20 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.

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MINERAL RESOURCES AND ORE RESERVES

as at 31 December 2006

Ore Reserves by country

(attributable)

Metric

Imperial

Contained Contained

Tonnes

Grade

gold

Tons

Grade

gold

Category

million

g/t

tonnes

million

oz/t

Moz

South

Africa

Proved

15.5 122.0 7.86 17.1 0.229

3.9

Probable

181.6 3.99 724.7 200.2 0.116 23.3

Total

197.2

4.29 846.7

217.3 0.125 27.2

Argentina*

Proved

0.9

7.09 6.1

0.9

0.207 0.2

Probable

6.9 6.22 42.7

7.6

0.181 1.4

Total

7.7 6.32 48.8

8.5

0.184 1.6

Australia*

Proved

54.9

64.7

60.5

0.034

2.1

Probable

133.2

1.02

135.4

146.8

0.030

4.4

Total

188.0

1.07

200.1

207.3

0.031

6.4

Brazil*

Proved

3.7

5.60

20.8

4.1

0.163

0.7

Probable

10.3

7.40

76.3

11.4

0.216

2.5

Total

14.0

6.92

97.1

15.5 0.202

3.1

Ghana*

Proved

50.8

2.13

108.2

56.0

0.062

3.5

Probable

74.5

231.3

82.2

0.091

7.4

Total

125.3

2.71

339.5

138.1

0.079

10.9

Guinea*

Proved

18.2

0.60

10.8

20.1

0.017

0.3

Probable

52.7

0.85

45.0

58.1

0.025

1.4

Total

70.9

0.79

55.9

78.2

0.023

1.8

Mali*

Proved

15.7

1.79

28.0

17.3

0.052 0.9

Probable

20.8

2.85

59.1

22.9

0.083

1.9

Total

36.4

87.2

40.2

0.070

2.8

Namibia

Proved

5.3

1.08

5.8

5.9

0.032

0.2

Probable

10.1

1.63

16.5

11.2

0.048

0.5

Total

15.5

1.44

22.3

17.0

0.042

0.7

Tanzania

Proved

4.0

0.97

3.9

4.5

0.028

0.1

Probable

74.9

3.47

259.6

82.6

0.101

8.3

Total

79.0

3.34

263.6

87.0

0.097

8.5

USA

Proved

0.93

87.0

103.0

0.027

2.8

Probable

35.6

0.91

32.5

39.2

0.027

1.0

Total

129.0

0.93

119.5

142.2

0.027

3.8

Totals*

Proved

262.4

1.74

457.2

289.2

0.051

14.7

Probable

600.6

2.70

1,623.3

662.1

0.079

52.2

Total

863.0

2.41

2,080.5

951.3

0.070

^{*} Reserves attributable to AngloGold Ashanti

Contained

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MINERAL RESOURCES AND ORE RESERVES

as at 31 December 2006

Mineral Resources by country(1)

Metric

Imperial

Contained

Tonnes

Grade

gold

Tons

Grade

gold

Category

million

g/t

tonnes

million

oz/t

Moz

South Africa

Measured

27.3

13.97

381.0

30.0

0.408

12.2

Indicated

528.5

3.89

2,054.4

582.6

0.113

66.1

Inferred

28.4

5.66

160.7

31.3

0.165

5.2

Total

584.2

4.44

2,596.1

643.9

0.130

83.5

Argentina**

Measured

- 11.4 2.35
- 26.7
- 12.6
- 0.068
- 0.9
- Indicated
- 17.5
- 3.24
- 56.6
- 19.2
- 0.095
- 1.8
- Inferred
- 10.4
- 3.03
- 31.4
- 11.4
- 0.088
- 1.0
- Total
- 39.2
- 2.93
- 114.7
- 43.2
- 0.085
- 3.7

Australia**

Measured

- 71.2
- 1.08
- 76.6
- 78.5
- 0.031
- 2.5
- Indicated
- 213.9
- 0.87
- 186.3
- 235.8
- 0.025
- 6.0
- Inferred
- 233.3
- 0.73
- 170.3
- 257.1
- 0.021
- 5.5
- Total
- 518.4

0.84

433.2

571.5

0.024

13.9

Brazil**

Measured

8.6

6.16

52.7

9.4

0.180

1.7

Indicated

18.5

7.35

136.3

20.4

0.214

4.4

Inferred

25.7

7.11

182.9

28.3

0.207

5.9

Total

52.8

7.04

371.8

58.2

0.205

12.0

Ghana**

Measured

82.1

3.60

295.7

90.4

1.105

9.5

Indicated

93.3

4.77

445.4

102.9

0.139

14.3

Inferred

6.47

284.2

48.4

0.189

9.1

Total

219.3

4.68

1,025.4

241.8

0.136

33.0

Guinea**

Measured

18.7

0.60

11.2

20.6

0.018

0.4

Indicated

74.1

0.83

61.5

81.6

0.024

2.0

Inferred

131.4

0.66

86.4

144.8

0.019

2.0

2.8

Total

224.1

0.71 159.2

247.1

0.021

5.1

Mali**

Measured

18.8

1.90

35.7

20.8

0.055

1.1

Indicated

2.80

65.6

25.8

0.082

2.1

Inferred

16.7

2.48

41.5

18.4

0.072

1.3

Total

59.0

2.42

142.8

65.0

0.071

4.6

Namibia

Measured

11.4

0.81

9.3

12.6

0.024

0.3

Indicated

53.8

1.29

69.1

59.3

0.037

2.2

Inferred

33.7

1.16

38.9

37.1

0.034

1.3

Total

98.9

1.19

117.3

109.0

0.035

3.8

Tanzania

Measured

0.97

3.9

4.5

0.028

0.1

Indicated

114.2

3.32

379.2

125.8

0.097

12.2

Inferred

24.3

3.09

75.2

26.8

0.090

2.4

Total

142.5

3.22

458.3

157.1

0.094

14.7

USA

Measured

180.2

0.82

148.3

198.7

0.024

4.8

Indicated

95.7

0.75

71.5

105.4

0.022 2.3

Inferred

14.1 0.59

8.3

15.6

0.017

0.3

Total

290.0

228.1

319.7

0.023

7.3

Totals

Measured

433.7

2.40

1,041.1

478.1

0.070

33.5

Indicated

1,232.8

2.86

3,525.8

1,359.0

0.083

113.4

Inferred

561.9

1.92

1,079.9

619.4

0.056

34.7

Total

2,228.5

2.53

5,646.9

2,456.5

0.074

181.6

** Resources attributable to AngloGold Ashanti

Inclusive of the Ore Reserve component

Page 8_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 MINERAL RESOURCE DEFINITIONS

Mineral Resource

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 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:

(i)

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 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. 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. AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 9 ORE RESERVE DEFINITIONS

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), and 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.

Only those Ore Reserves included for treatment in the business unit plan production schedule are considered in the Ore Reserve statement. These sometimes include marginal or sub-grade ores as well as Inferred Mineral Resource. These Inferred Mineral Resources are not included in the Ore Reserve statement. For new projects an Ore Reserve is only reported if an auditable pre-feasibility 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\$475 and US\$500/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 Moz to 0.4 Moz at US\$475/oz.

Audit of Mineral Resource and Ore Reserve

AngloGold Ashanti has a policy whereby all estimates of Mineral Resource and Ore Reserve are subject to audit on a regular basis. These audits consist of:

a corporate technical group review (annual)

an external audit (once in every three years); and

regional review (annual) The 2006 Mineral Resources and Ore Reserves as reported for the following operations will be subject to external audit: Mponeng Geita Obuasi Morila Sadiola Yatela Cuiabá Cripple Creek and Victor The Mponeng audit was completed in October 2006 and the remainder will be completed early in 2007. The 2005 Mineral Resources and Ore Reserves were audited for the following operations: Vaal River surface sources Siguiri Tau Lekoa **MSG** Navachab Moab Khotsong No significant issues were identified in any of the external audits.

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SOUTH AFRICAN OPERATIONS: OVERVIEW

SOUTH AFRICA

The South African operations comprise seven underground mines which are located in two geographical regions on the Witwatersrand Basin; known as the Vaal River and West Wits operations. 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 Ventersdorp Contact Reef (VCR).

All seven operations are 100% owned by AngloGold Ashanti. In addition, the Vaal River Surface and West Wits Surface operations comprise of the mining of waste rock dumps and tailings dams resulting from the mining and processing of the primary and secondary reef horizons.

Mineral Resource and Ore Reserve gold price and exchange rates

Units

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve gold price

US\$/oz

550

400

Exchange rate – South Africa

ZAR/US\$

6.50

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 11 Mineral Resource estimation

A multi-disciplinary approach is adopted 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 meter 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 shows the potential of the orebody at different cut-offs. These curves are produced for dimensions equivalent to a practical mining unit for underground operations.

Orkney
West Wits locality plan
Vaal River locality plan

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SOUTH AFRICAN OPERATIONS: OVERVIEW

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.

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

Type of Drilling

Country

Mine

Category

Spacing

Diamond

Other

Comments

m(-x-)

South Africa

South

Measured

5 x 5

X

Based on

African

Mines

variance, supported

by chip sampling

in stopes.

Indicated

2 x 200

X

Supported by

underground

drillholes and chip

sampling of reef

development ends.

Inferred

1000 x 1000

X

Supported by

surface drillholes.

Grade/ore

control

5 x 5

X

Chipped channel

samples.

Ore Reserve estimation

All mine designs are undertaken using the Cadsmine software package and include the delineation

constrained kriging

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 Mineral Resource Inventory System (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.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 13

Modifying factors

Ore Reserve modifying factors (as at 31 December 2006)

Mineral Resource

Ore Reserve

Mine

Metal-

cut-off

cut-off

Cut-off

Stoping

call

lurgical

grade

grade

value

width

Dilution

(1)

*

factor ** recovery

Other

South Africa

g/t (Au)

g/t (Au)

cmg/t (Au)

cm

%

% %

factor

Great Noligwa

4.64

6.23

1000

161

42%

68%

97%

n/a

Kopanang

4.00

5.88

600

102 49%

68%

98%

n/a

Moab Khotsong - upper mine

6.61 1000 151 38% 77% 98% n/a Tau Lekoa 3.79 7.14 1000 140 18% 82% 97% n/a Mponeng 5.50 5.71 800 140 40% 89% 98% Vaal River Surface Rock Dumps 0.41 0.41 n/a n/a n/a n/a 74% n/a Savuka 6.50 7.63 900 118 47% 72% 97% n/a Tau Tona 5.13 10.27 1000 97 115%

78% 98%

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.

Page 14_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

SOUTH AFRICAN OPERATIONS: OVERVIEW

Development sampling results

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

JANUARY TO DECEMBER 2006

Advanced

Sampled

Statistics are shown

metres

Sampled

Ave channel

Gold

Uranium

in metric units

(total)

metres

width (cm)

Ave g/t

Ave cm g/t

Ave kg/t

Ave cm kg/t

VAAL RIVER

Great Noligwa Mine

Vaal Reef

14,054

2,088

126.2

26.64

3,362

1.05

132.06

Kopanang Mine

Vaal Reef

25,132

2,758

15.5

152.13

2,358

12.30

190.70

Tau Lekoa Mine

Ventersdorp Contact Reef

7,548

1,968

97.7

8.71

851

_

_

Moab Khotsong Mine Vaal Reef 18,575 498 116.5 18.23 2,124 1.38 160.65 **WEST WITS** TauTona Mine Ventersdorp Contact Reef 932 Carbon Leader Reef 12,276 120 12.2 63.03 769 0.42 5.13 Savuka Mine Ventersdorp Contact Reef 25 Carbon Leader Reef 637 Mponeng Mine Ventersdorp Contact Reef 16,047 2,342 86.5 23.27

2,013

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 15 Advanced Sampled Statistics are shown feet Sampled Ave channel Gold Uranium in imperial units (total) feet width (in) Ave oz/t Ave ft oz/t Ave lb/t Ave ft lb/t **VAAL RIVER** Great Noligwa Mine Vaal Reef 46,108 6,850 49.69 0.78 3.22 2.10 8.69 Kopanang Mine Vaal Reef 82,454 9,049 6.10 4.44 1.64 24.60 4.21 Tau Lekoa Mine Ventersdorp Contact Reef 24,763 6,457 38.46 0.25 1.02 Moab Khotsong Mine Vaal Reef 60,942 1,634 45,87

0.53

2.03 2.76 10.55 **WEST WITS** TauTona Mine Ventersdorp Contact Reef 3,057 Carbon Leader Reef 40,276 394 4.80 1.84 0.74 0.84 0.34 Savuka Mine Ventersdorp Contact Reef 82 Carbon Leader Reef 2,090 Mponeng Mine Ventersdorp Contact Reef 52,646 7,684 34.06 0.68 1.93

Page 16_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

SOUTH AFRICAN OPERATIONS: OVERVIEW

Mineral Resource and Ore Reserve comparison by operation (attributable)

AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES)

% change

% change

from

from

2005

Nett diff

2005

Percentage

Other before

Dec

after

after

Operation

attributable

Category

2005 Depletion

(1)

change

(2) depletion 2006

depletion

depletion

Comments

South Africa

Great Noligwa

100%

Resource

10.993

(0.915)

0.551

5 10.629

(0.364)

(3) The increased gold price resulted in an

additional Mineral Resource being

declared for the C Reef. Portions of the

Vaal Reef and C Reef Shaft pillars were

removed from the Mineral Resource

Reserve

4.612

(0.625)

0.047

1

4.034

(0.578)

(13) The inclusion of the C Reef caused a

slight increase in Ore Reserve

Kopanang

100%

Resource 11.336 (0.711)0.352 3 10.977 (0.359)(3) The value increased as the result of new channel sampling Reserve 5.509 (0.46)(0.213)(4) 4.836 (0.673)(12) The reduction in Ore Reserve is due to a slightly lower MCF Moab Khotsong 100% Resource 12.965 (0.062)(1.375)(11) 11.528 (1.437)(11) Overall decrease in value due to exploration results from MGR7 and MZA9 Reserve 3.616 (0.047)(0.398)(11)3.171 (0.445)(12) Reduction due to the drop in values as a result of exploration drilling Tau Lekoa 100% Resource 7.724 (0.186)(0.389)(5) 7.149 (0.575)(7) The Jonkerskraal area was removed from the Mineral Resource and there was an overall decrease in value Reserve 1.009 (0.178)

0.5 50 1.331 0.322 32 The significant increase is due to the increased gold price Vaal River Surface 100% Resource 4.311 (0.146)0.427 10 4.592 0.281 The higher gold price resulted in the (VRGO) Mispah tailings dam included in Mineral Resource Reserve 2.259 (0.146)(0.201)(9)1.912 (0.347)(15) Some waste rock dumps were downgraded from Indicated to Inferred Mponeng 100% Resource 24.388 (0.656)0.69 3 24.422 0.034 The value on the Booysens area increased due to exploration drilling Reserve 4.524 (0.617)2.871 63 6.778 2.254 50 The inclusion of the VCR below 120 level project and the increased gold price resulted in the significant increase

Savuka 100% Resource 1.186 (0.186)1.17 99 2.17 0.984 83 Due to the increased gold price Reserve 0.014 (0.093)0.253 1 807 0.174 0.16 1,143 Due to the increased gold price TauTona 100% Resource 13.797 (0.62)(1.863)(14) 11.314 (2.483)(18) Areas on both the Ventersdorp Contact Reef and Carbon Leader Reef Shaft Pillars were determined not to have economic potential Reserve 5.271 (0.473)0.189 4 4.987 (5) Due to increase in value and gold price West Wits Surface 100% Resource 0.16 0.526 329 0.686 0.526 329 Due to inclusion of tailing dams as a result of the increased gold price

Reserve
_
_
_
_
_
_
_
South Africa Totals:
Resource
86.86
(3.482)
0.089
_
83.467
(3.393)
(4)
Reserve
26.814
(2.639)
3.048
11 27.223
0.409
2
(1)
Depletion: Reduction in Reserves based on ore delivered to the plant and corresponding reduction in Minera
Resource.
(2)
Other change: Model and scope changes.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 17 **Mineral Resource: by-products URANIUM** Operation Mineral Resource category Tonnage (Mt) Grade (kg/t) Uranium (000t) Great Noligwa Measured Indicated 22.5 0.72 16.1 Inferred 1.2 0.57 0.7 Total 23.7 0.71 16.8 Kopanang Measured 2.7 0.54 1.4 Indicated 15.6 0.54 8.4 Inferred 1.1 0.50 0.6 Total 19.4 0.54 10.4 Moab Khotsong Measured Indicated 14.9

1.15 17.1

4.8 0.89 4.2 Total 19.7 1.09 21.4 Mponeng Measured Indicated 15.2 0.26 4.0 Inferred Total 15.2 0.26 4.0 Savuka Measured Indicated 3.7 0.38 1.4 Inferred Total 3.7 0.38 1.4 TauTona Measured Indicated 9.9 0.38 3.7

Inferred

Inferred 1.5 0.36 0.5 Total 11.4 0.37 4.3 Uranium total 93.1 0.63 58.3 Ore Reserve by-products **URANIUM** Operation Ore Reserve category Tonnage (Mt) Grade (kg/t) Uranium (000t) Vaal River Complex* Proved Probable 35.3 0.33 11.8 Total 35.3 0.33 11.8 * As the three Vaal River Mines feed to a combination of plants it is not possible to account for the U3O8 by-product by mine.

*Page 18*_AngloGold Ashanti_**Mineral Resource and Ore Reserve** 2006 SOUTH AFRICAN OPERATIONS: GREAT NOLIGWA

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 1,500 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 displaces the reef down by approximately 1,000 and 900m respectively), and to the west by Kopanang Mine.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 19

Geology

The VR is the principal economic horizon at Great Noligwa, accounting for over 90% of the gold produced at the mine. Stratigraphicaly the VR is located near the middle of the Central Rand Group within the Bird Reefs. 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 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 lesser scale in the central parts of Great Noligwa, where a high grade north-south orientated channel containing two economic horizons is developed. To the east and west of this channel the C Reef is poorly developed with only relatively small areas of economic intersect. The C Reef also contains high uranium values where it is well developed. 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.

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

2,256

6.97

15,729

2,487

0.2

506

Indicated

5,904

7.17

42,348

6,508

0.21

1,362

Inferred

583

6.32 3,688 643 0.18 119 Total 8,744 7.06 61,766 9,638 0.21 1,986 Great Noligwa – Vaal Reef Measured 8,118 19.03 154,497 8,949 0.56 4,967 Indicated 6,237 16.76 104,518 6,875 0.49 3,360 Inferred 622 15.79 9,819 685 0.46 316 Total 14,977 17.95 268,833 16,509 0.52 8,643 Great Noligwa -Measured 10,374 16.41 170,226 11,436 0.48 5,473 **Total Mineral Resource**

Indicated

12,141 12.10 146,866 13,383 0.35 4,722 Inferred 1,205 11.21 13,507 1,328 0.33 434 Total 23,720 13.94 330,599 26,147 0.41 10,629 **Exclusive Mineral Resource** Metric Imperial Au Great Noligwa Mine Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 4.9 14.43 70.9 5.4 0.421 2.3

Indicated 6.8 8.75 59.4

7.5 0.255

1.9

Inferred

0.6

6.93

4.4

0.7

0.202

0.1

Total

12.3

10.92

134.7

13.6

0.319

4.3

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.

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SOUTH AFRICAN OPERATIONS: GREAT NOLIGWA

Ore Reserve

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

Proved

416

5.49

2,283

459

0.16

73

Probable

1,458

6.15

8,966

1,607

0.18

288

Total

1,874

6

11,250

2,066

0.18

362

Great Noligwa - Vaal Reef

Proved

8,396

7.71

64,744

9,255

0.22

2,082

Probable 6,778 7.3 49,493 7,472 0.21 1,591 Total 15,174 7.53 114,237 16,726 0.22 3,673 Great Noligwa – Total Ore Reserve Proved 8,812 7.61 67,027 9,714 0.22 2,155 Probable 8,236 7.1 58,459 9,079 0.21 1,880 Total 17,048 7.36 125,487 18,792 0.21 4,034 **Competent persons** Professional Registration Relevant Type Name organisation number experience Mineral Resource T. Flitton **SACNASP** 400277/06 5 years

Ore Reserve

H. A. Kruger PLATO PMS0114 29 years

Grade tonnage information

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 21 SOUTH AFRICAN 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 1,300 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. Stratigraphically the VR is located near the middle of the Central Rand Group within the Bird Reefs. 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.

Page 22_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AFRICAN OPERATIONS: KOPANANG 0 200 400 600 800m **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 87 15.94 1,381 95 0.46 44 Indicated 332 14.69 4,884 367 0.43 157 Inferred 834 14.69 12,248 919

0.43 394 Total 1,253 14.78

18,513 1,381 0.43 595 Kopanang – Vaal Reef Measured 2,658 17.04 45,288 2,930 0.50 1,456 Indicated 15,579 16.69 259,958 17,172 0.49 8,358 Inferred 1,114 15.85 17,658 1,228 0.46 568 Total 19,351 16.69 322,903 21,330 0.49 10,382 Kopanang Mine – Measured 2,745 17.00 46,669 3,025 0.50 1,500 **Total Mineral Resource** Indicated 15,911 16.65 264,842 17,539 0.49 8,515

Inferred 1,948

15.35 29,906 2,147 0.45 961 Total 20,604 16.57 341,416 22,711 0.48 10,977 **Exclusive Mineral Resource** Metric Imperial Au Kopanang Mine Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 1.7 15.63 27.2 1.9 0.456 0.9 Indicated 4.8 12.96 62.4 5.3 0.378 2.0

Inferred 1.3 14.74 19.8 1.5

0.430 0.6 Total 7.9 13.85 109.4 8.7 0.404 3.5

The Vaal Reef 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. *Geological section of shaft pillar area.*

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 23

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

20 years

Grade tonnage information

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Kopanang - Crystalkop Reef

Proved

86

7.43

635

94

0.22

20

Probable

161

6.57

1,056 177 0.19 34 Total 246 6.87 1,691 271 0.2 54 Kopanang – Vaal Reef Proved 1,405 8.96 12,587 1,549 0.26 405 Probable 16,353 8.32 136,130 18,027 0.24 4,377 Total 17,759 8.37 148,717 19,576 0.24 4,781 Kopanang – Total Ore Reserve Proved 1,491 8.87 13,222 1,643 0.26 425 Probable 16,514 8.31 137,186 18,204 0.24 4,411 Total

18,005 8.35

150,408 19,847 0.24 4,836

Page 24_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AFRICAN OPERATIONS: MOAB KHOTSONG

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 2,100 and 3,700m below surface, with only limited quantities of ore lying above 2,300m. The principal reef is the VR of which the gold grade and morphology are considered to be a down-dip extension to the south and south-east of Kopanang and Great Noligwa mines. The reef comprises an oligomictic conglomerate, where gold 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 C Reef development or stoping has taken place.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 25

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

593

14.62

8,671

654

0.43

279

Indicated

14,298

18.44

263,678

15,761

0.54

8,477

Inferred

4,765

18.09

86,211

5,253

0.53

2,772

Total

19,657

18.24

358,560

21,668

0.53

11,528

Exclusive Mineral Resource

Metric

Imperial
Au
Moab Khotsong Mine
Resource
Tonnes
Grade
Au
Tons
Grade
ounces
Exclusive Mineral Resource
category
(Mt)
(g/t)
tonnes
(Mt)
(oz/t)
(Moz)
Measured
0.1
15.16
2.1
0.2
0.442
0.1
Indicated
3.7
17.12
63.6
4.1
0.499
2.0
Inferred
0.3
9.62
2.5
0.3
0.281
0.1
Total
4.1
16.58
68.2
4.5
0.484
2.2 The VP in the degree portion of the emphasis (Leuren Mine Area) former a notantially minerally energy Armani metals.
The VR in the deeper portion of the orebody (Lower Mine Area) forms a potentially mineable area. Approximately

30 to 40% of the

Exclusive Mineral Resource is expected to occur in safety and remnant pillars ahead of current mining.

Page 26_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

SOUTH AFRICAN OPERATIONS: MOAB KHOTSONG

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(11)

(g/t)

(kg) (000s)

(oz/t)

(000s)

Moab Khotsong - Vaal Reef

Proved

214

8.93

1,908

236

0.26

61

Probable

8,153

11.86

96,716

8,987

0.35

3,109

Total

8,367

11.79

98,624

9,223

0.34

3,171

Exploration

Current brownfield exploration is focused on improving geological confidence in the lower mine and eastern boundary of the upper mine. The drilling of three surface boreholes (MZA9, MGR7 and MMB5) and one long inclined borehole (LIB) (LIB13) is currently in progress.

LIB12, a very successful borehole drilled from the 95H 105 crosscut, intersected the C Reef and the Buffels East fault appreciably farther east than anticipated. This borehole indicated that a large block of VR may be present to the east of the current limit of stoping. LIB13, drilling from the 95H RAW East, intersected both VR and the C Reef confirming the geology indicated by LIB12. Three short deflections

across the C Reef were completed and the first of three short deflections across the Vaal Reef is currently in progress. A long deflection is scheduled to commence drilling. On completion of LIB13, a new hole, LIB9, will be drilled from the same site to test the structure interpretation between surface boreholes CY1 and MCY2. This drilling program is scheduled to be completed by June 2008.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 27

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

AC Barnard

PLATO

MTS0077

12 years

Ore Reserve

J Wall

PLATO

PMS0164

28 years

Grade tonnage information

Page 28_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AFRICAN OPERATIONS: TAU LEKOA

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 900 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 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. 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.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 29 10 metre running dyke 5 metre running dyke Goeden Fault Buffeldoorn Fault **VCR VCR** Nooitgedacht Fault Schoonspruit Fault Ventersdorp Lavas Witwatersrand quartzites and conglomerates W E 300 Level 600 Level 900 Level 1050 Level 1200 Level 1350 Level 1500 Level 1650 Level 1704 Level 0 150 300m **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 Mine -

Measured 5,795 6.66

38,585 6,388 0.19 1,241 Ventersdorp Contact Reef Indicated 35,043 5.09 178,451 38,628 0.15 5,737 Inferred 1,001 5.31 5,314 1,103 0.15 171 Total 41,838 5.31 222,350 46,119 0.16 7,149 **Exclusive Mineral Resource** Metric Imperial Au Lekoa Mine Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 4.0 6.61 26.6

4.4

0.193 0.9 Indicated 28.2 4.98 140.4 31.1 0.145 4.5 Inferred 0.9 5.23 4.8 1.0 0.152 0.2 Total 33.1 5.19 171.8

36.5 0.151 5.5

The Exclusive Mineral Resource is sensitive to 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.

W-E Section through Tau Lekoa Shaft.

Page 30_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AFRICAN OPERATIONS: TAU LEKOA

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Tau Lekoa –

Proved

2,092

4.75

9,935

2,306

0.14

319

Ventersdorp Contact Reef

Probable

8,086

3.89

31,459

8,913

0.11

1,011

Total

10,178

4.07

41,394

11,219

0.12

1,331

Grade tonnage information

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

20 years

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 31 SOUTH AFRICAN OPERATIONS: MPONENG

Mponeng

Mponeng lies on the West Wits Line, close to Carletonville in the Gauteng Province and about 65km from 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 incompetent Booysens Shale.

Page 32_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AFRICAN OPERATIONS: MPONENG 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 Mine -Measured Carbon Leader Reef Indicated 15,161 19.03 288,450 16,712 0.55 9,274 Inferred 49 25.62 1,255 54 0.75

40 Total 15,210 19.05 289,705

16,766 0.56 9,314 Mponeng Mine -Measured 5,731 13.63 78,137 6,318 0.40 2,512 Ventersdorp Contact Reef Indicated 29,992 13.06 391,777 33,061 0.38 12,596 Inferred Total 35,724 13.15 469,914 39,379 0.38 15,108 Mponeng Mine -Measured 5,731 13.63 78,137 6,318 0.40 2 5 1 2 Total Mineral Resource Indicated 45,153 15.06 680,227 49,773 0.44 21,870 Inferred

49

25.61 1,255 54 0.74 40 Total 50,934 14.91 759,619 56,145 0.43 24,422 **Exclusive Mineral Resource** Metric Imperial Au Mponeng Mine Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 4.3 13.13 55.9 4.7 0.383 1.8 Indicated 29.4 15.82 464.4 32.4 0.461 14.9

Inferred 0.1 25.62 1.3 0.1

0.747		
0.0		
Total		
33.7		
15.49		
521.7		
37.1		
0.452		

16.8

The Carbon Leader Reef in the deeper portion of the orebody (below 126 level) and the Ventersdorp Contact Reef 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.

Section through Mponeng Mine showing VCR morphology on uneven footwall.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 33

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(NS)

(000s)

(oz/t)

(000s)

Mponeng -

Proved

1,769

11.22

19,850

1,950

0.33

638

Ventersdorp Contact Reef

Probable

22,311

8.56

190,967

24,593

0.25

6,140

Total

24,080

8.75

210,817

26,544

0.26

6,778

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

RK Lavery

SACNASP

400144/89

25 years

Ore Reserve

R Brokken

PLATO

PMS0170

25 years

Grade tonnage information

Page 34_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AFRICAN OPERATIONS: TAUTONA

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 1,800 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 the unit 1 which is present as a sheet-like deposit over the whole mine, although the reef development and grades drop off very rapidly where the No 1 unit overlies the No 2 unit and often the No 1 unit is left in the hangingwall where the No 2 unit is being mined. The No 2 unit 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 the No 2 unit is developed. The No 3 unit is preserved below the No. 1 unit 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.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 35 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 **Mineral Resource** Metric Imperial Au Great Noligwa Mine Resource Tonnes Grade tonnes Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)(Mt (Mt) (oz/t)(Moz) TauTona Mine -Measured 733 28.29 20,734 808 0.83 667 Carbon Leader Reef Indicated 9,179 32.08 294,449

10,118 0.94

9,467 Inferred 1,510 8.46 12,777 1,664 0.25 411 Total 11,422 28.71 327,960 12,590 0.84 10,544 TauTona Mine -Measured 363 13.67 4,968 400 0.4 160 Ventersdorp Contact Reef Indicated 1,223 15.51 18,964 1,348 0.45 610 Inferred Total 1,586 15.09 23,932 1,748 0.44 769 TauTona Mine -Measured 1,096 23.45 25,702 1,208

0.68 826 **Total Mineral Resource** Indicated 10,402 30.13 313,413 11,466 0.88 10,076 Inferred 1,510 8.46 12,777 1,664 0.25 411 Total 13,008 27.05 351,892 14,338 0.79 11,314 **Exclusive Mineral Resource** Metric Imperial Au TauTona Mine Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 0.8 23.05 17.3

0.8 0.672 0.6

Indicated

4.3

28.89

122.9

4.7

0.843

4.0

Inferred

1.5

8.46

12.8

1.7

0.247

0.4

Total

6.5

23.48

153.0

7.2

0.685

4.9

The shaft pillar forms a potential mineable area. Approximately 40% of the exclusive Mineral Resource is expected to occur in safety

and remnant pillars ahead of current mining.

Schematic section through TauTona shaft system

Page 36_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

SOUTH AFRICAN OPERATIONS: TAUTONA

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

TauTona Mine -

Proved

312

14.29

4 455

344

0.42

143

Carbon Leader Reef

Probable

12,192

11.64

141,921

13,440

0.34

4,563

Total

12,504

11.71

146,376

13,783

0.34

4,706

TauTona Mine -

Proved

277

8.14

2,254

305

0.24

72

Ventersdorp Contact Reef

Probable

979

6.61

6,473

1,079

0.19

208

Total

1,256

6.95

0.75

8,727

1,384

0.2

281

TauTona Mine -

Proved

589

11.40

6,709

649

0.33

216

Total Ore Reserve

Probable

13,171

11.27

148,394

14,519

0.33

4,771

Total

13,760

11.27

155,103

15,167

0.33

4,987

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

R Orton

PLATO

MS0096 22 years Ore Reserve MW Armstrong PLATO MS0054 22 years

Grade tonnage information

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 37 SOUTH AFRICAN 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 2,600 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 the unit 1 which is present as a sheet-like deposit over the whole mine. The No 2 unit 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 the No 2 unit is developed. The No 3 unit is preserved below the No 1 unit 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.

Page 38_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AFRICAN OPERATIONS: SAVUKA

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Savuka Mine –

Measured

342

16

5,433

377

0.46

175

Carbon Leader Reef

Indicated

3,389

14.99

50,819

3,736

0.44

1,634

Inferred

_

_

_

_

Total

3,731

15.08

56,251

4,113

0.44

1,809

Savuka Mine -Measured 583 12.93 7,537 643 0.38 242 Ventersdorp Contact Reef Indicated 297 12.52 3,717 327 0.37 120 Inferred Total 880 12.79 11,254 970 0.37 362 Savuka Mine -Measured 925 14.03 12,970 1,020 0.41 417 **Total Mineral Resource** Indicated 3,686 14.79 54,536 4,063 0.43 1,753 Inferred

Total 4,611 14.64 67,505 5,083 0.43 2,170 **Exclusive Mineral Resource** Metric Imperial Au Savuka Mine Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t) tonnes (Mt) (oz/t)(Moz) Measured 0.5 16.06 8.3 0.6 0.468 0.3 Indicated 3.4 14.99 51.6 3.8 0.437 1.7 Inferred

Total

4.0 15.13 60.0

4.4 0.441

1.9

The exclusive Mineral Resource is sensitive to 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.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 39 **Ore Reserve** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Savuka – Carbon Leader Reef Proved 367 6.71 2,462 404 0.20 79 Probable 369 5.4 1,994 407 0.16 64 Total 736 6.05 4,456 811 0.18 143 Savuka -Proved 194 4.56

Ventersdorp Contact Reef

Probable 23 3.64 85 26 0.11 3 Total 217 4.46 968 239 0.13 31 Savuka – Total Ore Reserve Proved 561 5.96 3,345 618 0.17 108 Probable 392 5.30 2,079 433 0.15 67 Total 953 5.69 5,424 1,050 0.17 174 **Competent persons** Professional Registration Relevant Type Name organisation number experience Mineral Resource **RK** Lavery **SACNASP** 400144/89 25 years

Ore Reserve

R Brokken PLATO PMS0171 25 years

Grade tonnage information

Page 40_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AFRICAN OPERATIONS: SURFACE **Surface operations Mineral Resource** Metric Imperial Au Resource Tonnes Grade Au Tonnes Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)South Africa Surface -Measured Vaal River Surface Indicated 336,146 0.40 136,098 370,537 0.01 4,376 Inferred 10,520 0.64 6,724 11,597 0.02 216 Total 346,666

0.41 142,822 382,134 0.01

4,592 South Africa Surface -Measured West Wits Surface Indicated 55,733 0.29 16,315 61,435 0.01 525 Inferred 7,388 0.68 5,027 8,144 0.02 162 Total 63,121 0.34 21,342 69,578 0.01 686 South Africa Surface – Measured **Total Mineral Resource** Indicated 391,879 0.39 152,413 431,972 0.01 4,901 Inferred 17,908 0.66

11,751

19,741 0.02 378 Total 409,787 0.40 164,164 451,712 0.01 5,278 **Exclusive Mineral Resource** Metric Imperial Au Vaal River Surface Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured Indicated 229.9 0.34 78.9 253.1 0.010 2.5 Inferred 0.2 1.15 0.2 0.2 0.034

Total 229.9 0.34 79.1 253.2 0.010 2.5 West Wits -**Exclusive Mineral Resource** Measured Indicated 55.7 0.29 16.3 61.4 0.009 0.5 Inferred 7.4 0.68 5.0 8.1 0.020 0.2 Total 63.1 0.34 21.3 69.6 0.010 0.7 Total Surface -**Exclusive Mineral Resource** Measured Indicated 285.3 0.33

95.2 314.5

0.010

3.1

Inferred

7.6

0.68

5.2

8.3

0.020

0.2

Total

292.9

0.34

100.4

322.9

0.010

3.2

The exclusive Mineral Resource comprises largely of tailing storage facilities.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 41 **Ore Reserve** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)South Africa Surface -Proved Vaal River Surface Probable 104,763 0.57 59,475 115,481 0.02 1,912 Total 104,763 0.57 59,475 115,481 0.02 1,912 2.259 2005 -0.146

Depletion -0.730

1.912 2006

Scope Change

PMS0119 20 years

Page 42_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AMERICAN OPERATIONS: OVERVIEW

Argentina

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

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve gold price

US\$/oz

550

400

Exchange rate – Argentina

AR\$/US\$

3.15

3.15

Mineral Resource estimation

The mineral Resource estimates are computed using the relevant computer modules of Datamine

R

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.

Buenos Aires

Rio Gallegas

AngloGold Ashanti Mineral Resource and Ore Reserve 2006 Page 43

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

Type of Drilling

Country

Mine

Category

Spacing

Diamond

RC

Other

m(-x-)

Argentina

Cerro

Measured

12.5 x 5

X

X

Vanguardia

Indicated

25 x 10

X

X

Inferred

50 x 15

X

X

Grade/Ore

Control

12.5 x 5

X

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

(R)

software was used and Datamine

(R)

software was utilised to design the pits.

Modifying factors

Ore Reserve modifying factors (as at 31 December 2006)

Argentina

Mineral Resource

Ore Reserve

cut-off

cut-off

Metallurgical

grade

grade

Dilution

(1) recovery Other g/t (Au) g/t (Au) % factor factor Cerro Vanguardia 1.39 1.52 49.00% 95.20% n/a (1) There is 50cm of dilution on each side of the quartz vein. **Summary of Mineral Resource and Ore Reserve** Mineral Resource and Ore Reserve comparison by operation (attributable) AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES) % change % change from from 2005 Nett diff 2005 Percentage Other before Dec after after Operation attributable Category 2005 Depletion (1) change (2) depletion 2006 depletion depletion Comments Argentina Cerro Vanguardia 92.5% Resource 3.285 (0.163)0.567 17% 3.689 0.404

12%

Other change: Model and scope changes.

Successful exploration Reserve 1.344 (0.222)0.446 33% 1.568 0.224 17% Due to successful exploration programme and increased gold price Argentina totals: Resource 3.285 (0.163)0.567 17% 3.689 0.404 12% Reserve 1.344 (0.222)0.446 33% 1.568 0.224 17% Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource.

Page 44_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AMERICAN OPERATIONS: CERRO VANGUARDIA

Cerro Vanguardia

The Cerro Vanguardia property is located 160km northwest of Puerto San Julian. The property is situated within the southern Deseado Masive.

Geology

Gold and silver mineralisation at Cerro Vanguardia occur within a vertical range of about 0 to 200m below surface 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 north-south (Concepcion) and east-west (Vanguardia) shears. Two sets of veins have formed in response to this shearing. The first set strikes about N40W and generally dips 65° to 90° to the north-east; while the other set strikes about N75W and the veins dip 60° to 80° to the south-west. These veins are typical of epithermal low-temperature, sericite-adularia character and consist primarily of quartz in several textures such 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 stock-work 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 important lateral displacement.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 45

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Cerro Vanguardia -

Measured

9,616

1.17

11,234

10,599

0.03

361

stockpile full grade ore

Indicated

10,299

0.70

7,239

11,353

0.02

233

Inferred

6,263

0.67

4,200

6,904

0.02

135

Total

26,178

0.87

22,673

28,856

0.03

729

Cerro Vanguardia -

Measured 1,769 8.75 15,482 1,950 0.26 498 Vein Mineral Resource Indicated 7,153 6.90 49,359 7,885 0.20 1,587 Inferred 4,119 6.61 27,233 4,540 0.19 876 Total 13,041 7.06 92,074 14,376 0.21 2,960 Cerro Vanguardia – Measured 11,385 2.35 26,716 12,549 0.07 859 **Total Mineral Resource** Indicated 17,452 3.24 56,598 19,238 0.09 1,820 Inferred 10,382 3.03 31,433 11,444

0.09

1,011 Total 39,219 2.93 114,747 43,232 0.09 3,689 **Exclusive Mineral Resource** Metric Imperial Au Cerro Vanguardia Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 0.9 10.50 9.8 1.0 0.306 0.3 Indicated 0.3 22.96 6.7 0.3 0.670 0.2 Inferred 4.1 6.61 27.2 4.5 0.193 0.9

Total 5.3

8.18 43.7

5.9

0.239

1.4

Mineral Resource: by-products

Silver

Region

Mine

Mineral Resource category

Tonnage (Mt)

Grade (kg/t)

Ag (Moz)

South America

Cerro Vanguardia

Measured

11.4

43.88

16.1

Indicated

17.5

56.94

31.9

Inferred

10.4

57.47

19.2

Total

39.3

53.29

67.2

Inferred Mineral Resource in pit optimisation

Inferred Mineral Resources were used in the pit optimisation process and 0.375 million ounces are present in the optimised pit.

Page 46_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AMERICAN OPERATIONS: CERRO VANGUARDIA **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 18 20 369 20 0.58 12 stockpile full grade ore Probable Total 10 20 369 20 0.50 Cerro Vanguardia – Proved

837 6.8 5.691 922 0.2

183 Vein Mineral Resource Probable 6,863 6.22 42,701 7,565 0.18 1,373 Total 7,700 6.29 48,392 8,847 0.18 1,556 Cerro Vanguardia – Proved 855 7.09 6,060 942 0.21 195 Total Ore Reserve Probable 6,863 6.22 42,701 7,565 0.18 1,373 Total 7,718 6.32 48,761 8,507 0.18 1,568 Ore Reserve: by-products Silver Region Mine Ore Reserve category Tonnage (Mt) Grade (kg/t) Ag (Moz) South America

Cerro Vanguardia

Proved 7.70

98.60

24.50

Probable

0.00

0.00

0.00

Total

7.70

98.60

24.50

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 47

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

AHM Silva

CREA

5061

8 years

MAusMM

224831

Ore Reserve

LH De Souza

CREA 2854

22

years

MAusMM

224827

Grade tonnage information

*Page 48*_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AMERICAN OPERATIONS:

Brazil

AngloGold Ashanti's operations in Brazil comprise the wholly owned AngloGold Ashanti 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

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve gold price

US\$/oz

550

400

Exchange rate - Brazil

R\$/US\$

2.30

2.20

AngloGold

Ashanti

Brasil

Mineraça

~0

Brasilia

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

Type of Drilling

Country

Mine

Category

Spacing

Diamond

Other

Comments

m(-x-)

Brazil

AGA Mineraça

~

O

Measured

20 x 40 and

X

Diamond drill and RC Holes

(Córrego do Sítio)

25 x 25

Indicated

50 x 50

X

Diamond drill, R Holes and channel samples Inferred 150 x 150 X Diamond drill, RC Holes and channel samples Grade ore 2 x 2 and 5 x 5 X X Diamond drill, RC Holes and control channel samples AGA Mineraça Measured 5 x 5 and 20 x 40 X (Cuiabá) Indicated 20 x 60 X Inferred 80 x 500 X Grade ore 5 x 5 X Channel sampling control Serra Grande Measured 10 x 10 and X 20 x 10 Indicated 10 x 20 and 20 x 50 X Inferred 50 x 100 X Grade ore 2 x 2 and 2.5 x 1

Channel sampling

control

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 49 Mineral Resource and Ore Reserve comparison by operation (attributable) AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES) % change % change from from 2005 Nett diff 2005 Percentage Other before Dec after after Operation attributable Category 2005 Depletion change (2) depletion 2006 depletion depletion Comments Brazil AGA Mineraça 0 100% Resource -0.285 11.401 -0.085 -1% 11.031 -0.370 -3% Reserve 2.496 -0.261 0.454 18% 2.689 0.193 8% Ore Reserve increase due to Córrego do Sítio sulphide exploration drilling and Cuiabá development Serra Grande 50% Resource 0.809 -0.1250.238

29% 0.922 0.113

14%

Due to the successful exploration in the open pit and Mine Nova areas Reserve 0.379 -0.1000.154 41% 0.433 0.054 14% Due to incorporation of open pit and the development of levels with higher tons than expected **Brazil Totals:** Resource 12.210 -0.410 0.153 1% 11.953 -0.257 -2% Reserve 2.875 -0.361 0.608 21% 3.122 0.247 9% (1) Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource. (2) Other change: Model and scope changes. **Modifying factors** Ore Reserve modifying factors (as at 31 December 2006) Cut-off Metallurgical grade Dilution (1)recovery Other Brazil g/t (Au) % factor (2)factor AGA Mineraça o - Córrego do Sítio Oxides

1.83

87% n/a AGA Mineraça o - Córrego do Sítio Sulphides 4.00 n/a 94% AGA Mineraça o – Cuiabá 2.92 5% 92.50% n/a Serra Grande 1-2.2 5% - 30%91.0% - 96.0%

34%

- (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%

Page 50_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 SOUTH AMERICAN OPERATIONS: ANGLOGOLD MINERAÇAO AngloGold Ashanti Mineração

AngloGold Ashanti Mineração has mining rights in over 30,698 hectares in the state of Minas Gerais in south-eastern Brazil. The AngloGold Ashanti Mineração complex is located in the municipalities of Nova Lima, Sabará and Santa Bárbara, near the city of Belo Horizonte. Ore is sourced from the Cuiabá underground mine, (this ore is treated at the Queiroz plant) and from the Córrego do Sítio heap-leach mine.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 51 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 AngloGold Ashanti 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.

Mineralised orebodies at Córrego do Sítio are narrow NE-SW elongated lenses showing dips of 20 to 30° and a pitch angle to SE. In general, the mineralised orebodies comprise sericitic zones and quartz veinlets. The predominant sulphide is arsenopyrite, in acicular crystals at a millimetre scale. The gold occurs as inclusions (microscopic or sub-microscopic) and also inter-growth on the borders of the sulphide. Other typical minerals in the orebodies are pyrrotite, pyrite and chalcopyrite.

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)

AGA Mineraça

~

0 –

Measured

1,021

4.49

4,582

1,126

0.13

147

Córrego do Sítio Oxide

Indicated

724

4.78

3,461

798

0.14

0.14

111

Inferred

1,213

4.91

5,950

1,337

0.14

191

Total

2,958

4.73

13,994

3,260

0.14

450

AGA Mineraça 0 -Measured 301 10.92 3,282 331 0.32 106 Córrego do Sítio Sulphides Indicated 4,367 6.93 30,254 4,814 0.20 973 Inferred 4,234 7.27 30,788 4,667 0.21 990 Total 8,902 7.23 64,325 9,813 0.21 2,068 AGA Mineraça 0 -Measured 3 7.70 23 3 0.22 Córrego do Sítio Transition Indicated 755 7.23 5,457 832 0.21 175

Inferred

246 7.68 1,887 271 0.22 61 Total 1,004 7.34 7,367 1,106 0.21 237 AGA Mineraça 0 – Measured 2,382 6.84 16,298 2,626 0.20 524 Cuiabá Sulphides U/G Indicated 8,378 8.49 71,128 9,235 0.25 2,287 Inferred 12,723 7.83 99,625 14,025 0.23 3,203 Total 23,484 7.97 187,051 25,886 0.23 6,014 AGA Mineraça 0 -Measured 1,775

7.01

12,446 1,957 0.20 400 Lamego Sulphides Indicated 1,707 6.53 11,151 1,881 0.19 359 Inferred 2,066 5.34 11,024 2,277 0.16 354 Total 5,547 6.24 34,622 6,115 0.18 1,113 AGA Mineraça 0 -Measured 1,244 5.05 6,282 1,371 0.15 202 MMV Other Resource Indicated 1,415 5.33 7,541 1,560 0.16 242 Inferred 3,281 6.68 21,924 3,616

0.19705

Total 5,940 6.02 35,747 6,547 0.18 1,149 AGA Mineraça 0 – Measured 6,726 6.38 42,913 7,414 0.19 1,380 **Total Mineral Resource** Indicated 17,346 7.44 128,992 19,120 0.22 4,147 Inferred 23,763 7.20 171,198 26,193 0.21 5,504 Total 47,835 7.17 343,106 52,727 0.21 11,031 **Mineral Resource: by-products** Sulphur Region Mine Mineral Resource category Tonnage (Mt) Grade (ppm) Sulphur (Mt) South America AGA Mineraça

o

Measured

2.4

7.03%

0.20

Indicated

8.4

6.60%

0.60

Inferred

12.7

7.56%

1.00

Total

23.5

7.16%

1.70

SOUTH AMERICAN OPERATIONS: ANGLOGOLD MINERAÇAO

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Page 52_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 53 **Exclusive Mineral Resource** Metric Imperial Au AGA Mineração -Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 3.4 7.11 24.3 3.8 0.207 0.8 Indicated 6.6 7.72 51.1 7.3 0.225 1.6 Inferred 20.5 7.29 149.3 22.6 0.213 4.8 Total 30.5 7.36 224.6 33.6 0.215 The Lamego Sulphides and MMV Resources form potentially mineable areas depending on the gold price and

technical studies.

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

AGA Mineraça

0 -

Proved

390

5.24

2,044

430

0.15

66

Córrego do Sítio Oxide

Probable

372

5.85

2,172

410

0.17

70

Total

762

5.53

4,216

840

0.16

136

AGA Mineraça

0 -

Proved

217

6.95

1,505

239 0.2 48 Córrego do Sítio Sulphides Probable 1,680 6.6 11,094 1,852 0.19 357 Total 1,896 6.64 12,599 2,090 0.19 405 AGA Mineraça 0 – Proved 1,454 6.66 9,680 1,603 0.19 311 Cuiabá Sulphides U/G Probable 7,263 7.87 57,129 8,006 0.23 1,837 Total 8,717 7.66 66,810 9,609 0.22 2,148 AGA Mineraça 0 – Proved 2,061 6.42 13,229

2,272

0.19

425

Total Ore Reserve

Probable

9,315

7.56

70,395

10,268

0.22

2,263

Total

11,375

7.35

83,625

12,539

0.21

2,689

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, mine call factor and the appropriate gold price are considered in determining the Ore Reserves. The Ore Reserves are scheduled and designed using Mine2-4D

® computer software.

Page 54_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

Ore Reserve: by-products

Sulphur

Region

Mine

Mineral Reserve Category

Tonnage (Mt)

Grade (ppm)

Sulphur (Mt)

South America

AGA Mineraça

~

o

Proved

1.50

4.99

0.10

Probable

7.30

5.94

0.40

Total

8.80

5.78

0.50

Grade tonnage information

Competent persons

Professional

Registration

Relevant

Operation

Type

Name

organisation

number

experience

AGA Mineraça

~

0 –

Mineral Resource

P de Tarso Ferreira

CREA

34645/D

21 years

Cuiabá

MAusIMM

224828

Ore Reserve

S R Bothelho

CREA

41149/D

21 years MAusIMM 224833 AGA Mineraça 0 – Mineral Resource L H de Sousa **CREA** 2854/D 22 years Córrego do Sítio Oxides MAusIMM 224827 Ore Reserve M G Simoni **CREA** 55.727/D 8 years MAusIMM 224826 AGA Mineraça Mineral Resource A H M Silva **CREA** 5061 8 years Córrego do Sítio Sulphides MAusIMM 224831 Ore Reserve M G Simoni **CREA** 55.727/D 8 years MAusIMM 224826

SOUTH AMERICAN OPERATIONS: ANGLOGOLD MINERAÇAO

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 55 SOUTH AMERICAN 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 21,068 hectares in and around the Crixás mining district in the northwestern 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 to the north-west with dips of between 6° and 35° . The stratigraphy is overturned and thrust towards the east.

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.

Page 56_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

SOUTH AMERICAN OPERATIONS: SERRA GRANDE

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(g/t) (kg)

(000s)

(oz/t)

(000s)

Serra Grande - Mina Nova

Measured

581

3.97

2,308

641

0.12

74

Indicated

463

4.13

1,914

511

0.12

62

Inferred

257

4.07

1,048

284

0.12

34

Total

1,302

4.05

5,270

1,436

0.12

169

Serra Grande - open pit

Measured 803 4.37 3,511 886 0.13 113 Indicated 140 3.06 429 155 0.09 14 Inferred Total 944 4.18 3,940 1,040 0.12 127 Serra Grande - Mina 3 Measured 441 8.90 3,925 486 0.26 126 Indicated 587 8.40 4,933 647 0.25 159 Inferred 1,699 6.24 10,607 1,872 0.18 341

Total

2,727 7.14 19,466 3,006 0.21 626 Serra Grande -Measured 1,825 5.34 9,744 2,013 0.16 313 **Total Mineral Resource** Indicated 1,190 6.11 7,276 1,313 0.18 235 Inferred 1,956 5.96 11,655 2,156 0.17 375 Total 4,973 5.77 28,676 5,482 0.17 922 **Exclusive Mineral Resource** Metric Imperial Au Serra Grande – Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt)

(g/t) tonnes (Mt) (oz/t) (Moz) Measured Indicated 0.1 3.62 0.4 0.1 0.106 0.0 Inferred 2.0 5.96 11.7 2.2 0.174 0.4 Total 2.1 5.83

12.1 2.3 0.170 0.4

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 57

Inferred Mineral Resource in pit optimisation

Inferred Mineral Resources were used in the pit optimisation process and 0.155 million ounces are present in the optimised pit.

Ore Reserve

Metric

Imperial

Metric

Imperial

Au

Resource

Tonnes

Grade

tonnes

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(000s)

(000s)

(oz/t)

(000s)

Serra Grande - Mina Nova

Proved

401

3.59

1,439

442

0.10

46

Probable

384

3.81

1,464

423

0.11

47

Total

785

3.7

2,903

856 0.11

93

Serra Grande – open pit

Proved

868

3.71

3,222 957 0.11 104 Probable 153 2.47 377 168 0.07 12 Total 1,021 3.52 3,599 1,125 0.1 116 Serra Grande - Mina 3 Proved 378 7.58 2,865 417 0.22 92 Probable 468 8.77 4,104 516 0.26 132 Total 846 8.24 6,969 932 0.24 224 Serra Grande – Total Ore Reserve Proved 1,647 4.57 7,526 1,816 0.13 242 Probable

1,005 5.92

5,945 1,107

0.17

191

Total

2,652

5.08

13,471

2,922

0.15

433

*Page 58*_AngloGold Ashanti_**Mineral Resource and Ore Reserve** 2006 SOUTH AMERICAN OPERATIONS: SERRA GRANDE

1.75

2.1

2.50

2.25

1.50

1.25

1.50

1.50

1.25

1.75

2.1

2.50

2.25

Grade tonnage information

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

EM de Araujo

CREA

3688/D

20 years

MAusIMM

224825

Ore Reserve

EM de Araujo

CREA

3688/D

20 years

MAusIMM

224825

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 59 AUSTRALIAN OPERATIONS: OVERVIEW

Australia

The Australian assets (formerly Acacia Resources Ltd) were acquired at the end of 1999 and comprise of Sunrise Dam and Boddington gold mines. AngloGold Ashanti owns 100% of Sunrise Dam Gold Mine and 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. Canberra

Page 60_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

AUSTRALIAN OPERATIONS: OVERVIEW

Mineral Resource and Ore Reserve gold price and exchange rates

Sunrise Dam Gold Mine

Units

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve Gold Price

US\$/oz

550

400

Exchange rate - Australia

US\$/ Aus\$

0.73

0.72

Boddington Gold Mine

Units

2006

2005

Mineral Resource gold price

US\$/oz

650

500

Ore Reserve gold price

US\$/oz

500

400

Exchange rate - Australia

US\$/ Aus\$

0.74

0.73

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

Type of Drilling

Country

Mine

Category

Spacing

Diamond

RC

Comments

m(-x-)

Australia

Boddington

Measured

25 x 25

X

X

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

Indicated

50 x 50

X

X

Inferred

100 x 200

X

X

Grade/ore

control

Not applicable.

Sunrise Dam Measured

10 x 10

X

X

Mineral Resources were classified using a combination

and 25 x 25

of drillhole spacing, number of samples in estimate, average

distance to samples and confidence in geological

interpretation / estimate.

Indicated

20 x 20

X

X

and 40 x 40

Inferred

50 x 100

X

X

Grade/ore

6 x 6

X

(Blastholes were historically used for grade control in

control

and 10 x 10

Sunrise Pit by Placer.)

Ore Reserve estimation

The Ore Reserve is estimated by Lerch's Grossman (LG) 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 by a geostatistical technique called multiple indicator kriging (a non-linear geostatistical method) 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.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 61

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 0.4g/t COG approximates a life of mine cut-off grade. This represents diorite material and using unit gold/copper prices of A\$675/oz and A\$1.70/lb respectively. This NSR with gold leach and gravity contributions cut-off grade is A\$7.05/t and includes stockpile rehandle mining cost of A\$0.86/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.

Ore Reserve modifying factors (as at 31 December 2006)

Cut-off

Metallurgical

grade

Dilution

(1)

recovery

Other

Australia

g/t (Au)

%

factor

factor

Boddington

0.4*

n/a

82.2%

n/a

Sunrise Dam – open pit

1.2

n/a

83.2%

n/a

Sunrise Dam – underground

3

12

85.0%

n/a

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

* Cut-off is based on a net smelter return of A\$7.05/t which approximates to 0.4g/t Au over LOM.

Summary of Mineral Resource and Ore Reserve

Mineral Resource and Ore Reserve comparison by operation (attributable)

AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES)

% change

% change

from

from

2005

Nett diff

2005

Percentage

Other before

Dec after after Operation attributable Category 2005 Depletion (1) change (2) depletion 2006 depletion depletion Comments Australia Boddington 33.33% Resource 8.169 0.000 2.121 26% 10.290 2.121 26% Due to successful exploration Reserve 3.865 0.000 0.679 18% 4.544 0.679 18% Due to conversion of Inferred Mineral Resource in the pitshell and increased gold and copper price Sunrise Dam 100% Resource 4.309 -0.696 0.024 1% 3.637 -0.672 -16% Reserve 1.773 -0.543 0.659 37%

1.889 0.116

7%

Reserves increased due to addition

of North-Wall cutback and the

Cosmo orebodies due to an

increased gold price

Australia Totals:

Resource

12.478

-0.696

2.145

17% 13.927

1.449

12%

Reserve

5.638 -0.543 1.338 24%

6.432

0.795

14%

- (1) Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource.
- (2) Other change: Model and scope changes.

Page 62_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 AUSTRALIAN OPERATIONS: SUNRISE DAM

Sunrise Dam

Sunrise Dam lies some 220km north-north-east 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

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 63 the volcanic stratigraphy or the porphyry margin and within hinge domains within the magnetite shales) – e.g. Western Shear Zone, Watu, Cosmo and Summercloud.

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.

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.

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 from West to East.

Page 64_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 **AUSTRALIAN OPERATIONS: SUNRISE DAM Exclusive Mineral Resource** Metric Imperial Au Sunrise Dam -Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 16.6 1.34 22.10 18.3 0.039 0.7 Indicated 9.2 3.60 33.00 10.1 0.105 1.1 Inferred 6.6 5.48 36.30 7.3 0.160 1.2 Total 32.3 2.83

2.9 **Inferred Mineral Resource in pit optimisation**

91.40 35.7 0.082

Inferred Mineral Resources were used in the pit optimisation process and 0.017 million ounces are present in the optimised pit.

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

0.05

61

Inferred

2,643

1.64

4,335

2,913

0.05

139

Total

3,681

1.70

6,244

4,058

0.05

201

Sunrise Dam – open pit Measured 18,818 1.62 30,569 20,744 0.05 983 Indicated 8,244 3.35 27,659 9,088 0.10 889 Inferred 127 4.49 573 141 0.13 18 Total 27,190 2.16 58,801 29,972 0.06 1,890 Sunrise Dam – underground Measured 17 6.60 112 19 0.19 4 Indicated 1,968 8.42 16,582 2,170 0.25 533 Inferred 3,847 8.16 31,385 4,240

0.24 1,009

Total 5,832 8.24 48,078 6,429 0.24 1,546 Sunrise Dam – Measured 18,835 1.63 30,681 20,763 0.05 986 **Total Mineral Resource** Indicated 11,250 4.10 46,151 12,402 0.12 1,484 Inferred 6,617 5.48 36,293 7,294 0.16 1,167 Total 36,703

3.08 113,123 40,459 0.09 3,637

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 65

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Sunrise Dam - open pit

Proved

9,085

2.34

21,278

10,014

0.07

684

Probable

6,231

4.10

25,548

6,869

0.12

821

Total

15,316

3.06

46,826

16,883

0.09

1,505

Sunrise Dam - underground

Proved

62

8.72

537

68

0.25

17

Probable

1,346 8.45 11,378 1,484 0.25 366 Total 1,407 8.47 11,915 1,551 0.25 383 Sunrise Dam – Total Ore Reserve Proved 9,147 2.38 21,815 10,082 0.07 701 Probable 7,577 4.87 36,926 8,353 0.14 1,187 Total 16,723 3.51 58,741 18,434 0.10 1,889 **Competent persons** Professional Registration Relevant Type Name organisation number experience Mineral Resource M Ericksen MAusIMM 109151

21 years Open pit Ore Reserve

P Christians

MAusIMM

221754

22 years

Underground

Ore Reserve

S Tombs

MAusIMM

105785

28 years

Grade tonnage information

*Page 66*_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 AUSTRALIAN 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.

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 methods used in the Mineral Resource estimation are similar to that used for Sunrise Dam Gold Mine Open Pit.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 67

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(02/t) (000s)

Boddington-In-situ

Measured

52,384

0.88

45,909

57,743

0.03

1,476

Indicated

202,688

0.69

140,129

223,425

0.02

4,505

Inferred

226,651

0.59

134,019

249,840

0.02

4309

Total

481,723

0.66

320,057

531,008

0.02

10,290

Mineral Resource: by-products

Copper

Region Mine Mineral Resource category Tonnage (Mt) Grade (ppm) Copper (Mt) Australia **Boddington** Measured 52.4 1,082 0.057 Indicated 202.7 995 0.202 Inferred 226.7 955 0.216 Total 481.8 986 0.475 **Exclusive Mineral Resource** Metric Imperial Au Boddington -Resource Tonnes Grade Au Tons Grade ounces In-situ category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 6.6 0.46 3.1 7.3 0.013

0.1

Indicated

77.1

0.54

41.7

85.0

0.016

1.3

Inferred

226.7

0.59

134.0

249.8

0.017

4.3

Total

310.4

0.58

178.7

342.2

0.017

5.7

Page 68_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 AUSTRALIAN OPERATIONS: BODDINGTON

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Boddington - In-situ

Proved

45,735

0.94

42,845

50,414

0.03

1,377

Probable

125,435

0.78

98,353

138,268

0.02

3,162

Total

171,170

0.82

141,198

188,682

0.02

4,540

Boddington - Stockpiles

Proved

_

_

_

Probable 146 0.81 118 161 0.02 4 Total 146 0.81 118 161 0.02 4 Boddington – Total Proved 45,735 0.94 42,845 50,414 0.03 1,377 Probable 125,581 0.78 98,471 138,429 0.02 3,166 Total 171,316 0.82 141,316 188,843 0.02 4,544 **Ore Reserve: by-products** Copper Region Mine Mineral Reserve category Tonnage (mt) Grade (ppm) Copper (mt) Australia Boddington Proved 45.70 1,138 0.05

Probable

125.60

1,099

0.14

Total

171.30

1,109

0.19

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

K Gleeson

MAusIMM

202246

18 years

Ore Reserve

S Williams

MAusIMM

204071

20 years

Grade tonnage information

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 69 GHANAIAN OPERATIONS: OVERVIEW

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 the company has an 85% stake in Iduapriem Gold Mine.

Mineral Resource and Ore Reserve gold price

Units

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve gold price

US\$/oz

550

400

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GHANAIAN OPERATIONS: OVERVIEW

Mineral Resource and Ore Reserve comparison by operation (attributable)

AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES)

% change

% change

from

from

2005

Nett diff

2005

Percentage

Other before

Dec

after

after

Operation

attributable

Category

2005 Depletion

(1)

change

(2)

depletion 2006

depletion

depletion

Comments

Ghana

Bibiani

100%

Resource

0.856 0.000

-0.856

-100%

0.000 -0.856 -100%

Sale

of

Asset

Reserve

0.143 0.000

-0.143

-100%

0.000 -0.143 -100%

Sale

of

Asset

Iduapriem

85%

Resource

3.025

-0.196

0.685 23% 3.514 0.489 16% Due to increased gold price Reserve 1.846 -0.181 0.545 30% 2.210 0.364 20% Due to increased gold price Obuasi 100% Resource 24.873 -0.658 5.237 21% 29.452 4.579 18% Due to exploration and changes in estimation methodology below 50 level area Reserve 8.644 -0.6320.693 8% 8.705 0.061 1% Significant decrease in underground mine reserves offset by increase in surface reserves (Pompora Tailings). Overall net increase as a result of below 50 KMS project Ghana Totals: Resource 28.754 -0.8545.066 18% 32.966 4.212 15% Reserve 10.633 -0.813 1.095 10% 10.915

0.282 3% (1) Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource. Other change: Model and scope changes. Details of average drill-hole spacing and type in relation to Mineral Resource classification TYPE OF DRILLING Country Mine Category Spacing Diamond RC Other Comments m(-x-y)Ghana Iduapriem Measured 50 x 50 X X Indicated 50 x 75 X X 50m x 100m spacing in some areas. Inferred 100 x 100 X X Grade/Ore Control 15 x 10 X RC drilling only. Occasionally 20m x 10m spacing. Obuasi surface Measured 20 X 20 X X Indicated 30 X 30 X X Inferred 90 X 90 X

X

Grade/Ore Control 10 X 10 X Obuasi underground Measured 20 X 20 X X Channel sampling. Indicated 60 X 60 X X Channel sampling. Inferred 120 X 120 X X Channel sampling. **Modifying factors** Ore Reserve modifying factors (as at 31 December 2006) Cut-off Metallurgical Ghana grade Dilution (1) recovery Other Mine g/t (Au) % factor factor Iduapriem 0.61 8% 94.5% n/a Obuasi - pit n/a 10% 75% Obuasi - underground 6.16 23% - 28%80%

Obuasi – tailings

n/a n/a 41.1% n/a (1)

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

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GHANAIAN 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) volcanosedimentary and igneous formations. These deposits extend for a distance of approximately 300 kilometres, 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.

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_Mineral Resource and Ore Reserve 2006

GHANAIAN OPERATIONS: OBUASI

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.

Mineral Resource estimation

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 ®

software. Geological interpretation was based on trench and reverse circulation and or diamond drilling data. A prototype block model comprising of 20m x 5m x 15m block sizes was used within the Geological model outlines. Ordinary kriging is used to estimate gold grades into the block model. S.V.S.

MAIN REEF FISSURE

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) Phyllites, Greywackes and Shists Mineralised - Auriferous -Barren Metavolcanic (Dyke) Carbonaceous/Graphitic Fissure Auriferous Quartz Vein 41 Level 38 Level 32 Level 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

EW Section through KMS (AA)

AngloGold Ashanti

_Mineral Resource and Ore Reserve 2006_Page 73

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Obuasi – open pit

Measured

8,519

2.73

23,236

9,390

0.08

747

Indicated

_

_

_

-

Inferred

_

_

_

_

Total

8,519

2.73

23,236

9,390

0.08

747

Obuasi – tailings

Measured 8,190 1.93 15,807 9,028 0.06 508 Indicated 28,656 1.66 47,451 31,587 0.05 1,526 Inferred Total 36,846 1.72 63,258 40,616 0.05 2,034 Obuasi – underground Measured 29,757 6.73 200,289 32,801 0.20 6,439 Indicated 44,574 8.18 364,792 49,134 0.24 11,728 Inferred 30,089 8.75 263,164 33,168 0.26

8,461 Total

104,419 7.93 828,245 115,103 0.23 26,629 Obuasi – stockpile Measured 510 2.59 1,320 562 0.08 42 Indicated Inferred Total 510 2.59 1,320 562 0.08 42 Obuasi – Total Mineral Resource Measured 46,976 5.12 240,652 51,781 0.15 7,737 Indicated 73,230 5.63 412,243 80,721 0.16 13,254

Inferred

30,089 8.75 263,164 33,168 0.26 8,461 Total 150,294 6.10 916,059 165,671 0.18 29,452 **Exclusive Mineral Resource** Metric Imperial Au Obuasi Gold Mine -Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 30.0 5.86 175.6 33.0 0.171 5.645 Indicated 15.6 10.93 170.3 17.2 0.319 5.475 Inferred 23.2 8.01

25.6 0.234 5.986 Total 68.8

7.73 532.0

75.8

0.226

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Mineral Resource and Ore Reserve 2006

GHANAIAN OPERATIONS: OBUASI

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 (MRO) is used to generate the ore envelope. An appropriate mining layout is designed that incorporates mining extraction losses, dilution factors and mine call factor.

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade ounces

Mine/Project

category

(000s)

(g/t)(kg)

(000s)

(oz/t)

(000s)

Obuasi – tailings

Proved

11,500

1.84

21,163

12,677

0.05

680

Probable

35,353

1.28

45,190

38,970

0.04

1,452

Total

46,853

1.42

66,353

51,647

2,133 Obuasi - underground Proved 6,735 5.54 37,324 7,424 0.16 1,200 Probable 27,507 6.07 167,073 30,321 0.18 5,372 Total 34,242 5.97 204,397 37,745 0.17 6,572 Obuasi - Total Ore Reserve Proved 18,235 3.21 58,487 20,101 0.09 1,880 Probable 62,860 3.38 212,263 69,291 0.10 6,824 Total 81,095 3.34 270,750

89,392 0.10 8,705

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Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

H Eybers

SACNASP

400098/99

21 years

Ore Reserve

J vz Visser

PLATO

PMS0119

20 years

Grade tonnage information

Page 76_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 GHANAIAN 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 and 500 microns (0.002 to 0.5mm) and averages 130 microns (0.13mm). Sulfide 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

R

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 mineralization boundaries. The geostatistical techniques used for grade interpolation into the blocks include Multiple Indicator Kriging (MIK), ordinary kriging and inverse distance squared (ID2) methods.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 77

Mineral Resource

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Iduapriem – surface

Measured

35,075

1.57

55,041

38,663

0.05

1,770

Indicated

20,108

1.65

33,192

22,166

0.05

1,067

Inferred

13,844

1.52

21,067

15,261

0.04

677

Total

69,028

1.58

109,300

76,090

0.05

3,514

Exclusive Mineral Resource

Metric

Imperial
Au
Iduapriem Gold Mine –
Resource
Tonnes
Grade
Au
Tons
Grade
ounces
Exclusive Mineral Resource
category
(Mt)
(g/t)
tonnes
(Mt)
(oz/t)
(Moz)
Measured
2.5
0.53
1.5
2.8
0.016
0.044
Indicated
8.4
1.47
12.4
9.3
0.043
0.398
Inferred
13.8
1.52
21.1
15.3
0.044
0.677
Total
24.8
1.40
34.8
27.4
0.041
1.119
Inferred Mineral Resource

Inferred Mineral Resource in business plan

Inferred Mineral Resources were used in the pit optimisation process and 0.27 million ounces are present in the optimised pit.

Ore Reserve estimation

Pit optimisation is done using the relevant economic assumptions, geotechnical parameters and

mining assumptions. Whittle

(R)

pit shells are generated 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.

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GHANAIAN OPERATIONS: IDUAPRIEM

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Iduapriem – surface

Proved

31,290

1.54

48,187

34,492

0.04

1,549

Probable

11,676

1.63

19,032

12,871

0.05

612

Total

42,967

1.56

67,220

47,363

0.05

2,161

Iduapriem – full grade ore

Proved

1,246

1.23

1,531

1,373

0.04

49

Probable Total 1,246 1.23 1,531 1,373 0.04 49 Iduapriem – Total Ore Reserve Proved 32,536 1.53 49,718 35,865 0.04 1,598 Probable 11,676 1.63 19,032 12,871 0.05 612 Total 44,213 1.55 68,751 48,736 0.05 2,210 **Competent persons** Professional Registration Relevant Type Name organisation number experience Mineral Resource K Osei MAuSIMM 112723 12 years

Ore Reserve

E B Boakye MAuSIMM 222459 23 years **Grade tonnage information**

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 79

GUINEA OPERATIONS: OVERVIEW

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.

Mineral Resource and Ore Reserve gold price

Units

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve gold price

US\$/oz

550

400

Mineral Resource estimation

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

R

software. Geological interpretation is based on Geological borehole data. A prototype block model ranging from 10m x 10m x 2.5m to 50m x 25m x 6m block sizes depending on the shape of the Ore body 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.

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GUINEA OPERATIONS: OVERVIEW

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.

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

Type of Drilling

Country

Mine

Category

Spacing

Diamond

RC

Other

Comment

m(-x-y)

Guinea

Siguiri

Measured

5 x 10

X

Indicated

25 x 25

X

X AC

Also includes air core drilling.

and 50 x 50

Inferred

50 x 50

X

X AC

Also includes air core drilling.

and 80 x 25

Grade/Ore control

5 x 10

X

Summary of Mineral Resources and Ore Reserve changes

Mineral Resource and Ore Reserve comparison by operation (attributable)

AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES)

% change

% change

from

from

2005

Nett diff
2005
Percentage
Other before
Dec
after
after
Operation
attributable
Category
2005 Depletion
(1)
change
(2)
depletion 2006
depletion
depletion
Comments
Guinea
Siguiri
85%
Resource
4.253
-0.623
1.488
35%
5.118
0.865
20%
Due to successful exploration and
increased gold price
Reserve
1.644
-0.223
0.375
23%
1.796
0.152
9%
An additional pit included due to
increased gold price
Guinea Totals:
Resource
4.253
-0.623
1.488
35%
5.118
0.865
20%
Reserve

1.644 -0.223 0.375 23% 1.796 0.152 9% (1) Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource. Other change: Model and scope changes. **Modifying factors** Ore Reserve modifying factors (as at 31 December 2006) Cut-off (1)Mine call Metallurgical Guinea grade Dilution (2) factor recovery Mine g/t (Au) % (MCF) % factor (3) Siguiri 0.35 - 0.504% 96% 93.0 - 97.5% A range of cut-offs indicate variable ore types.

A range of plant recoveries indicates variable ore types.

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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 1,494.58km2

. All ore and waste is mined by a mining contractor in a conventional open-pit mining operation. Processing is done via a carbon-in-pulp (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 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. All current Ore Reserve and Mineral Resource is located in block number 1.

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GUINEA OPERATIONS: SIGUIRI

Inferred Mineral Resource in business plan

Inferred Mineral Resources were used in the pit optimisation process and 0.07 million ounces are present in the optimised pit.

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

507

0.79

402

559

0.02

13

Indicated

74,056

0.83

61,527

81,633

0.02

1,978

Inferred

83,839

0.80

67,399

92,417

0.02

2,167

Total

158,402

0.82

129,328

174,609

0.02 4,158 Siguiri – surface resources Measured 18,191 0.60 10,844 20,052 0.02 349 Indicated Inferred 47,542 0.40 19,017 52,406 0.01 611 Total 65,733 0.45 29,861 72,458 0.01 960 Siguiri – Total Mineral Resource Measured 18,698 0.60 11,246 20,611 0.02 362 Indicated 74,056 0.83 61,527 81,633 0.02 1,978 Inferred 131,381 0.66

86,416 144,823

0.02 2,778 Total 224,135 0.71 159,189 247,067 0.02 5,118 **Exclusive Mineral Resource** Metric Imperial Au Siguiri Gold Mine -Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t) tonnes (Mt) (oz/t)(Moz) Measured 0.3 0.72 0.2 0.3 0.021 0.006 Indicated 19.6 0.62 12.2 21.6 0.018 0.394 Inferred 115.7 0.63 72.4 127.5 0.018 2.329

Total

135.6
0.63
84.9
149.4
0.018
2.720

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 83 **Ore Reserve** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t) (000s)Siguiri – oxides Proved Probable 52,708 0.85 45,027 58,100 0.02 1,448 Total 52,708 0.85 45,027 58,100 0.02 1,448 Siguiri – surface resource Proved 18,191

0.60 10,828 20,052 0.02 348 Probable -

_

_

_

Total

18,191

0.60

10,828

20,052

0.02

348

Siguiri – Total Ore Reserve

Proved

18,191

0.60

10,828

20,052

0.02

348

Probable

52,708

0.85

45,027

58,100

0.02

1,448

Total

70,899

0.79

55,855

78,152

0.02

1,796

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

P Winkler

MAuSIMM

220329

23 years

Ore Reserve

A Netherwood

MAuSIMM 100463 18 years **Grade tonnage information**

Page 84_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

MALI OPERATIONS: OVERVIEW

Mali

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.

Mineral Resource and Ore Reserve gold price

Mineral Resource and Ore Reserve gold price

Units

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve gold price

US\$/oz

550

400

Mineral Resource estimation

The Mineral Resource is taken as the material that falls within the \$650/oz economic shell optimised for each individual deposit. 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.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 85 Block sizes between 25m x 25m x 10m and 30m x 30m x 10m (X Y Z) and where appropriate selective sub-celling are 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 5.0m. 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. Details of average drill-hole spacing and type in relation to Mineral Resource classification Type of Drilling Country Mine Category Spacing Diamond RC Comment m(-x-y)Mali Morila Measured 10 x 10 X X Indicated 30 x 30 X X Inferred 50 x 50 X X Grade/ore control 10 x 10 X Blastholes were only used for sampling when and 50 x 50 there was insufficient RC coverage. Sadiola Measured 20 x 20 and 25 x 25 X X Indicated 25 x 50 X

X Inferred >25 x 50 X

Grade/ore control

5 x 10 X Yatela Measured 10 x 10 and 25 x 25 X Indicated 25 x 25 and 35 x 45 X Inferred >25 x 25 and $> 35 \times 45$ X Grade/ore control 5 x 10 X **Ore Reserve estimation** using Whittle R **Modifying factors** Cut-off (1)Metallurgical Guinea grade Dilution (2) recovery Mine g/t (Au) % factor (3)Morila - Pit 1.0 - 1.410% 89 - 91.5%Morila - TSF n/a

n/a 60%

Sadiola - Pit 0.57 - 1.78

5% 80 – 93% Yatela – Pit 0.52 – 1.30 13% 75 – 85% (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.

Page 86_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 MALI OPERATIONS: OVERVIEW **Summary of Mineral Resource and Ore Reserve changes** Mineral Resource and Ore Reserve comparison by operation (attributable) AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES) % change % change from from 2005 Nett diff 2005 Percentage before Other Dec after after Operation attributable Category 2005 Depletion (1) change (2) depletion 2006 depletion depletion Comments Mali Morila 40% Resource 1.399 -0.233 -0.029 -2% 1.137 -0.262 -19% Reserve 0.947 -0.2330.140 15% 0.854 -0.093 -10% Due to the increased gold price marginal ore is now economic Sadiola 38% Resource

4.190 -0.294-0.939

-22%

```
2.957
-1.233
-29%
Due to a change in methodology
when compared to the 2005
Mineral Resource
Reserve
0.864
-0.174
0.983 114%
1.673
0.809
94%
Due to the inclusion of the Deep
Sulphide Project
Yatela
40%
Resource
0.466
-0.167
0.198
42%
0.497
0.031
7%
Due increased gold price
Reserve
0.217
-0.156
0.214
99%
0.275
0.058
27%
Due to the inclusion of an
additional cutback
Mali Totals:
Resource
6.055
-0.694
-0.770
-13%
4.592
-1.464
-24%
Reserve
2.028
        -0.563 1.337
                        66%
2.802
0.774
38%
(1)
```

Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource.

Other change: Model and scope changes.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 87 MALI OPERATIONS: SADIOLA

Sadiola

Sadiola is situated in the north-west of the country, 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 Kenieba- 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 2500m 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.

Deposits of this type world-wide exhibit good continuity of mineralisation both along strike and extend to great depth. 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 from the Sadiola Hill pit was the primary ore source. Since 2002 the deeper saprolitic sulphide ore has been mined and will progressively replace the depleting oxide Ore Reserve.

Page 88_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 MALI OPERATIONS: SADIOLA

Mineral Resource

Metric

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

539

1.41

761

594 0.04

24

Total

539

1.41

761

594

0.04

24

Sadiola - FE3 Measured Indicated 737 2.00 1,478 813 0.06 48 Inferred 342 1.95 668 377 0.06 21 Total 1,080 1.99 2,145 1,190 0.06 69 Sadiola – FE3S Measured Indicated 1,451 2.57 3,732 1,600 0.07 120 Inferred 20 2.65 54 22 0.08

2 Total

1,472 2.57 3,785 1,622 0.08 122 Sadiola – FE4 Measured 0.79 Indicated 1,743 2.30 4,002 1,922 0.07 129 Inferred 473 2.20 1,041 522 0.06 33 Total 2,217 2.28 5,043 2,443 0.07 162 Sadiola - FN2 Measured Indicated 188 1.52 286 207 0.04 9 Inferred 252 3.98 1,003

278

0.12 32.45 Total 440 2.93 1,289 485 0.09 41 Sadiola – FN3 Measured Indicated Inferred 340 1.42 481 374 0.04 15 Total 340 1.42 481 374 0.04 15 Sadiola – Main deposit Measured 157 3.90 613 173 0.11 20 Indicated 13,378 2.77 37,012 14,746

1,190 Inferred 11,379 2.53 28,815 12,544 0.07 926 Total 24,914 2.67 66,440 27,463 0.08 2,136 Sadiola – Sekokoto Measured Indicated Inferred 318 1.57 499 350 0.05 16 Total 318 1.57 499 350 0.05 16 Sadiola – stockpile Measured 7,450 1.40 10,452 8,212

0.04

336
Indicated
0
Inferred
0
Total
7,450
1.40
10,452
8,212

0.04 336

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 89

Inferred Mineral Resource in pit optimisation

Inferred Mineral Resource was used in the pit optimisation process and 0.8 million ounces are present in the optimised pit.

Mineral Resource

(continued)

Metric

Imperial

Au

Au

Resource

Tonnes

Grade

tonnes

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Sadiola - Tambali south

Measured

-

_

_

Indicated

-

_

Inferred

826

1.31

1,084

911

0.04

35

Total

826

1.31

1,084

911 0.04 35 Sadiola - Total Mineral Resource Measured 7,607 1.45 11,065 8,385 0.04 356 Indicated 17,497 2.66 46,510 19,288 0.08 1,495 Inferred 14,489 2.37 34,406 15,972 0.07 1,106 Total 39,596 2.32 91,979 43,644 0.07 2,957 **Exclusive Mineral Resource** Metric Imperial Au Sadiola Gold Mine -Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes

(Mt) (oz/t)

(Moz) Measured 0.0 Indicated 2.8 2.20 6.3 3.1 0.064 0.2 Inferred 14.5 2.37 34.4 16.0 0.069 1.1 Total

17.3 2.35 40.7 19.1 0.068 1.3

Page 90_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 MALI OPERATIONS: SADIOLA

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Sadiola - FE3

Proved

Probable

1,400

2.57

3,593

1,544

0.07

116

Total

1,400

2.57

3,593

1,544 0.07

116

Sadiola - FE4

Proved

0.89

0.03

Probable 1,144 2.48 2,841 1,261 0.07 91 Total 1,144 2.48 2,841 1,262 0.07 91 Sadiola – Main deposit Proved 142 4.27 608 157 0.12 20 Probable 12,251 2.84 34,840 13,505 0.08 1,120 Total 12,394 2.86 35,447 13,662 0.08 1,140 Sadiola - Stockpile full grade ore Proved 2,455 2.56 6,276 2,706 0.07 202 Probable

Total 2,455 2.56 6,276 2,706 0.07 202 Sadiola - Stockpile marginal Proved 4,854 0.80 3,884 5,351 0.02 125 Probable Total 4,854 0.80 3,884 5,351 0.02 125 Sadiola - Total Ore Reserve Proved 7,451 1.45 10,768 8,214 0.04 346 Probable 14,795 2.79 41,274 16,310 0.08 1,327 Total 22,247 2.34 52,041 24,525 0.07

1,673

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

S Robins

MAuSIMM

222533

11 years

Ore Reserve

B De Oliveira

MAuSIMM

225194

29 years

Grade tonnage information

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 91 MALI OPERATIONS: YATELA

Yatela

Yatela is situated some 25km north of Sadiola and approximately 50km south-south-west 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 carbonate-rich 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.

Page 92_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 MALI OPERATIONS: YATELA Metagreywacke Overburden Fine Sandstone

Dolomite

Diorite (Micro)

Oxide Footwall

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)

(000s)

(oz/t)

(000s)

Yatela – Alamoutala pit

Measured

Q

1.09

9

9

0.03

Indicated

652

1.77

1,153

718

0.05

37

Inferred

159

1.77

281

175

0.05 9 Total 818 1.76 1,442 902 0.05 46 Yatela – KW 18 Measured Indicated 193 1.32 256 213 0.04 8 Inferred 8 1.74 14 9 0.05 Total 201 1.34 270 222 0.04 8 Yatela – main pit Measured 934 4.40 4,106 1,030 0.13 132 Indicated 1,299 3.85 5,005

1,431

0.11 161 Inferred 839 3.24 2,715 925 0.09 87 Total 3,072 3.85 11,827 3,386 0.11 380 Yatela – stockpile Measured 2,067 0.93 1,928 2,278 0.03 62 Indicated Inferred Total 2,067 0.93 1,928 2,278 0.03 62 Yatela – total Mineral Resource Measured 3,009 2.01 6,043

3,317

0.06

194

Indicated

2,144

2.99

6,414

2,362

0.09

206

Inferred

1,006

2.99

3,010

1,109

0.09

97

Total

6,158

2.51

15,467

6,788

0.07

497

Geological cross-section 58500 (looking North).

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 93 **Exclusive Mineral Resource** Metric Imperial Au Yatela Gold Mine -Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 0.4 1.99 0.7 0.4 0.058 Indicated 1.3 1.97 2.5 1.4 0.057 0.1 Inferred 1.0 2.99 3.0 1.1 0.087 0.1 Total 2.6 2.36 6.2 2.9 0.069 0.2 **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.
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
- - - Probable 121
121 1.57
121 1.57 189
121 1.57 189 133
121 1.57 189 133 0.05
121 1.57 189 133 0.05
121 1.57 189 133 0.05 6 Total
121 1.57 189 133 0.05 6 Total 121
121 1.57 189 133 0.05 6 Total 121 1.57
121 1.57 189 133 0.05 6 Total 121
121 1.57 189 133 0.05 6 Total 121 1.57
121 1.57 189 133 0.05 6 Total 121 1.57
121 1.57 189 133 0.05 6 Total 121 1.57 189
121 1.57 189 133 0.05 6 Total 121 1.57 189 133 0.05 6
121 1.57 189 133 0.05 6 Total 121 1.57 189 133 0.05 6 Yatela – main pit
121 1.57 189 133 0.05 6 Total 121 1.57 189 133 0.05 6
121 1.57 189 133 0.05 6 Total 121 1.57 189 133 0.05 6 Yatela – main pit

Probable

```
1,311
4.91
6,439
1,445
0.14
207
Total
1,311
4.91
6,439
1,445
0.14
207
Yatela – stockpile full grade ore
Proved
484
1.76
852
534
0.05
27
Probable
Total
484
1.76
852
534
0.05
27
Yatela – stockpile marginal grade ore
Proved
1,582
0.69
1,088
1,744
0.02
35
Probable
```

Total

1,582

0.69

1,088

1,744

0.02

35

Yatela – total Ore Reserve

Proved

2,066

0.94

1,940

2,278

0.03

62

Probable

1,432

4.63

6,628

1,578

0.13

213

Total

3,498

2.45

8,568

3,856

0.07

275

Page 94_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

MALI OPERATIONS: YATELA

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

S Robins

MAuSIMM

222533

11 years

Ore Reserve

P Day

MAuSIMM

223906

15 years

Grade tonnage information

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 95 MALI OPERATIONS: MORILA

Morila

This mine is situated some 180km 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 Banafing 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).

Page 96_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006

MALI OPERATIONS: MORILA

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

2,264

3.44

7,781

2,495

0.10

250

Indicated

3,798

3.34

12,670

4,187

0.10

407

Inferred

1,235

3.31

4,084

1,361

0.10

131

Total

7,297

3.36

24,536

8,043

0.10 789

Morila - stockpiles

Measured 5,923 1.81 10,712 6,529 0.05 344 Indicated Inferred Total 5,923 1.81 10,712 6,529 0.05 344 Morila – tailings Measured 29 4.33 124 32 0.13 Indicated Inferred

Total

29 4.33 124 32 0.13 4 Morila – total Mineral Resource Measured 8,216 2.27 18,617 9,056 0.07 599 Indicated 3,798 3.34 12,670 4,187 0.10 407 Inferred 1,235 3.31 4,084 1,361 0.10 131 Total 13,249 2.67 35,372 14,604 0.08 1,137 **Exclusive Mineral Resource** Metric Imperial Au Morila Gold Mine -Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)

tonnes (Mt) (oz/t) (Moz) Measured 0.1 1.92 0.1 0.1 0.056 0.004 Indicated

0.4

2.63

1.0

0.4

0.077

0.032

Inferred

0.2

2.24

0.4

0.2

0.065

0.011

Total

0.6

2.44

1.5

0.7

0.071

0.047

Inferred Mineral Resources in pit optimisation

Inferred Mineral Resource was used in the pit optimisation process and 0.046 million ounces are present in the optimised pit.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 97 **Ore Reserve** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t)(000s)Morila – stockpiles full grade ore Proved 4,138 2.09 8,656 4,562 0.06 278 Probable Total 4,138 2.09 8,656 4,562 0.06 278 Morila – stockpiles marginal ore Proved

Probable

```
1,784
1.14
2,035
1,967
0.03
65
Total
1,784
1.14
2,035
1,967
0.03
65
Morila – sulphides
Proved
2,004
3.34
6,684
2,209
0.10
215
Probable
1,956
4.16
8,143
2,156
0.12
262
Total
3,960
3.74
14,827
4,365
0.11
477
Morila – sulphides marginal ore
Proved
Probable
771
1.17
905
850
0.03
29
```

Total

771 1.17 905 850 0.03 29 Morila – tailings Proved Probable 29 4.33 124 32 0.13 4 Total 29 4.33 124 32 0.13 Morila – total Ore Reserve Proved 6,142 2.50 15,340 6,771 0.07 493 Probable 4,540 2.47 11,207 5,005 0.07 360 Total 10,682 2.49 26,547 11,776 0.07

Competent persons

854

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

P Weedon

MAuSIMM

204701

15 years

Ore Reserve

S K Ndede

MAuSIMM

201772

18 years

Grade tonnage information

N

0

300km

Okahandja

Navachab

Tsumeb

Walvis Bay

Luderitz

Keetmanshoop

Operations

Karibib

NAMIBIA

Windhoek

Page 98 AngloGold Ashanti Mineral Resource and Ore Reserve 2006

NAMIBIAN OPERATIONS: OVERVIEW

Namibia

Navachab Gold Mine is wholly owned by AngloGold Ashanti.

Mineral Resource and Ore Reserve gold price

Mineral Resource and Ore Reserve gold price

Units

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve gold price

US\$/oz

550

400

Exchange rate - South Africa

ZAR/US\$

6.50

6.75

Mineral Resource estimation

Mineral Resource estimation is performed using Datamine

® Software. Block dimensions of

25m x 25m x 5m (X Y Z) 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).

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 99

Ore Reserve estimation

MineSight

(R)

optimisation software is used to generate optimised pit shells taking into cognisance the economic parameters. The final pits are then designed taking into consideration the optimised pit shell, recommended slope geometry and ramp access requirements.

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

Type of Drilling

Country

Mine

Category

Spacing

Diamond

RC

Comment

m(-x-y)

Namibia

Navachab

Measured

10 x 10

X

Drillhole spacing is reduced to 5m x

5m in complex ore.

Indicated

25 x 25

X

Inferred

50 x 50

X

X

Grade/ore control

5 x 10

X

Modifying factors

Ore Reserve modifying factors (as at 31 December 2006)

Cut-off

Metallurgical

Namibia

grade

Dilution

(1)

Recovery

Other

Mine

g/t (Au)

%

Factor

Factor

Navachab - pit

0.60

n/a 92% n/a (1)Where no dilution factor is indicated the dilution is inherent in the resource model estimate. **Summary of Mineral Resource and Ore Reserve changes** Mineral Resource and Ore Reserve comparison by operation (attributable) AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES) % change % change from from 2005 Nett diff 2005 Percentage before Other Dec after after Operation attributable Category 2005 Depletion (1) change (2)depletion 2006 depletion depletion Comments Namibia Navachab 100% Resource 1.793 -0.1362.114 118% 3.771 1.978 110% Due to successful exploration, increased gold price and improved mining efficiencies Reserve 0.542 -0.096 0.270 50% 0.716

0.174

32%

Due to the increased gold price

marginal ore is now economic and

the pit is larger

Namibia Totals:

Resource

1.793

-0.136

2.114 118%

3.771

1.978

110%

Reserve

0.542 -0.096 0.270 50%

0.716

0.174

32%

(1)

Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource.

(2)

Other change: Model and scope changes.

*Page 100_*AngloGold Ashanti_**Mineral Resource and Ore Reserve** 2006 NAMIBIAN 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, carbon-in-pulp (CIP) and electro-winning facilities.

Geology

The Navachab gold deposit is located in the Pan-African Damara Orogen. The mineralisation in the Main Pit is hosted by a NE-SW striking metamorphosed sequence of greenschist-amphibolite 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). Silver is also present and the gold to silver ratio is about 15 to 1.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 101
W
E
Karibib FM
Oberwasser FM
Oxide
(MDMV)
Okawayo FM
MC
Zone
SC
LS
LSC
LS
Etusis FM
Chuos FM
Oxide
Calcrete
Spasbumn 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 Lucrosid
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

0.73 1 2 0.02 0 Inferred 2,240 1.09 2,438 2,469 0.03 78 Total 2,242 1.09 2,439 2,471 0.03 78 Navachab – gecko Measured Indicated Inferred 439 1.78 779 484 0.05 25 Total 439 1.78 779 484 0.05 25 Navachab – grid A Measured 513

2.48

1,276

566

0.07

41

Indicated

293

1.91

561

323

0.06

18

Inferred

95

1.25

118

104 0.04

4

Total

901

2.17

1,955

994

0.06

63

Navachab – main pit

Measured

1,404

1.40

1,967

1,548

0.04

63

Indicated

53,460

1.28

68,521

58,930

0.04

2,203

Inferred

30,885

1.15

35,595

34,045

0.03

1,144

Total

85,749

1.24

106,084 94,522 0.04 3,411 Navachab – stockpiles Measured 9,527 0.63 6,040 10,501 0.02 194 Indicated Inferred Total 9,527 0.63 6,040 10,501 0.02 194 Navachab - total Measured 11,444 0.81 9,283 12,615 0.02 298 Mineral Resource Indicated 53,755 1.29 69,083 59,255 0.04 2,221 Inferred

33,659

1.16 38,930 37,102 0.03 1,252 Total 98,858 1.19 117,297

108,972 0.03 3,771

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NAMIBIAN OPERATIONS: NAVACHAB

Inferred Mineral Resource in business plan

Inferred Mineral Resource was used in the pit optimisation process and 0.23 million ounces are present in the optimised pit.

Exclusive Mineral Resource

Metric

Imperial

Au

Navachab Gold Mine -

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Exclusive Mineral Resource

category

(Mt)

(g/t)

tonnes

(Mt)

(oz/t)

(Moz)

Measured

6.1

0.62

3.8

6.7

0.018

0.1

Indicated

39.5

1.27

50.3

43.6

0.037

1.6

Inferred

27.0

1.15

31.2

29.7

0.034

1.0

Total

72.6

1.17

85.3

80.0

0.034

2.7

This exclusive Mineral Resource comprises largely main pit and to a lesser extent anomaly 16 and the gecko orebodies which forms potentially future Ore

Reserve dependant on the gold price and completion of technical studies.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 103

Ore Reserve

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Navachab - grid A

Proved

482

2.50

1,207

532

0.07

39

Probable

224

2.02

452

247

0.06

14.55

Total

707

2.35

1,660

779

0.07

53

Navachab - main pit

Proved

660

2.07

1,367

727

0.06

44

Probable

9,916 1.62 16,067 10,930 0.05 517 Total 10,576 1.65 17,434 11,658 0.05 561 Navachab – stockpiles Proved 565 1.48 836 623 0.04 27 full grade ore Probable Total 565 1.48 836 623 0.04 27 Navachab – stockpiles – marginal Proved 3,608 0.65 2,345 3,977 0.02 75 Probable

Total 3,608 0.65 2,345 3,977 0.02 75 Navachab – total Ore Reserve Proved 5,315 1.08 5,755 5,859 0.03 185 Probable 10,140 1.63 16,519 11,177 0.05 531 Total 15,456 1.44 22,275 17,037 0.04 716 **Grade tonnage information Competent persons** Professional Registration Relevant Type Name organisation number experience Mineral Resource F P Badenhorst **SACNASP** 400031/02 16 years MAuSIMM 211026 Ore Reserve R Schommarz MAuSIMM 222570

16 years

*Page 104*_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 TANZANIAN OPERATIONS: OVERVIEW

Tanzania

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.

Mineral Resource and Ore Reserve gold price Mineral Resource and Ore Reserve gold price

Units

2006

2005

Mineral Resource gold price

US\$/oz

650

425

Ore Reserve gold price

US\$/oz

550

400

Mineral Resource estimation

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

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 105

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

Country

Mine

Category

Spacing

Diamond

RC

m(-x-y)

Tanzania

Geita

Measured

10 x 10

X

X

Indicated

40 x 40

X

X

Inferred

50 x 50

X

X

Grade/Ore Control

10 x 10

X

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 factors 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.

Modifying factors

Ore Reserve modifying factors (as at 31 December 2006)

Cut-off

Metallurgical

Tanzania

grade

Dilution

(1)

recovery

Other

Mine

g/t (Au)

%

factor

factor Comments Geita 0.8 - 3.05% 66% - 95% 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. **Summary of Mineral Resource and Ore Reserve changes** Mineral Resource and Ore Reserve comparison by operation (attributable) AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES) % change % change from from 2005 Nett diff 2005 Percentage Other before Dec after after Operation attributable Category 2005 Depletion (1) change (2) depletion 2006 depletion depletion Comments Tanzania Geita 100% Resource 13.307 -0.636 2.065 16% 14.736 1.429 11% Due to revised Mineral Resource Models, exploration and increased gold price

Reserve

8.497

8.474

-0.460

-0.023

0.437

5%

```
0%
Tanzania Totals:
Resource
13.307
-0.636
2.065
16% 14.736
1.429
11%
Reserve
8.497
        -0.460 0.437
                        5%
8.474
         -0.023
0%
(1)
Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource.
Other change: Model and scope changes.
```

*Page 106*_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 TANZANIAN 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 open-pit mining methods.

Geology

The Geita Greenstone trend is a component of the Sukumaland Greenstone Belt; it strikes eastwest, 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 1000m 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 pre-existing fault systems. Gold mineralisation and hydrothermal alteration of the host lithologies, on all scales, is associated with late stage ductile to brittle-ductile deformation.

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 107 **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 – Area 3 west Measured Indicated 1,127 2.11 2,377 1,242 0.06 76 Inferred Total 1,127 2.11 2,377 1,242 0.06 76 Geita – Chipaka Measured Indicated 1,552 2.31 3,581 1,711 0.07 115

Inferred

Total 1,552 2.31 3,581 1,711 0.07 115 Geita – Geita Hill surface Measured Indicated 38,139 2.68 102,078 42,041 0.08 3,282 Inferred 3,794 3.58 13,594 4,182 0.10 437 Total 41,933 2.76 115,672 46,223 0.08 3,719 Geita – Kukuluma Measured

Indicated

2,146

3.24

6,946

2,366

0.09

223

Inferred

29

3.10

91

32

0.09

3

Total

2,175

3.24

7,038

2,398

0.09

*Page 108*_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 TANZANIAN OPERATIONS: GEITA

Mineral Resource

(continued)

Metric

Imperial

Au

Resource

Tonnes

Grade

Au

1 **1 u**

Tons

Grade

ounces

Mine/Project

category

(000s)

(g/t)

(kg)

(000s)

(oz/t)

(000s)

Geita – Lone Cone

Measured

_

_

-

_

Indicated

2,546

2.46

6,256

2,807

0.07

201

Inferred

415

1.98

821

457

0.06

26

Total

2,961

2.39

7,076

3,264

0.07

Geita – Matandani Measured Indicated 6,192 4.36 27,010 6,826 0.13 868 Inferred 24 16.21 389 26 0.47 13 Total 6,216 4.41 27,400 6,852 0.13 881 Geita – Nyankanga south Measured Indicated Inferred 869 4.00 3,471 957 0.12

Total 869 4.00 3,471 957 0.12 112 Geita – Nyankanga surface Measured Indicated 46,025 3.64 167,758 50,734 0.11 5,394 Inferred 14,483 2.14 31,035 15,965 0.06 998 Total 60,508 3.29 198,793 66,699 0.10 6,391 Geita – Nyankanga underground Measured Indicated 2,610 6.49 16,946 2,877 0.19

Inferred 2,177 6.26 13,623 2,400 0.18 438 Total 4,787 6.39 30,568 5,277 0.19 983 Geita – Ridge 8 surface Measured Indicated 5,101 2.80 14,301 5,622 0.08 460 Inferred 132 2.29 304 146 0.07 10 Total 5,233 2.79 14,605 5,768 0.08 470 Geita – Ridge 8 underground Measured

Indicated 408 4.91 2,004 450 0.14 64 Inferred 1,990 5.13 10,208 2,194 0.15 328 Total 2,398 5.09 12,212 2,644 0.15 393 Geita – Roberts Measured Indicated 4,668 2.32 10,824 5,146 0.07 348 Inferred Total 4,668 2.32 10,824 5,146 0.07 348 Geita - Star and Comet

Measured Indicated 3,642 5.24 19,085 4,014 0.15 614 Inferred 425 4.00 1,700 469 0.12 55 Total 4,067 5.11 20,785 4,483 0.15 668 Geita – Stockpile Measured 4,043 0.97 3,923 4,457 0.03 126 Indicated Inferred Total

4,043

0.97

3,923

4,457

0.03

126

Geita – Total Mineral Resource

Measured

4,043

0.97

3,923

4,457

0.03

126

Indicated

114,156

3.32

379,166

125,836

0.10

12,190

Inferred

24,338

3.09

75,236

26,828

0.09

2,420

Total

142,537

3.22

458,325

157,121

0.09

14,736

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Kukuluma, Nyankanga South, Nyankanga underground, Ridge 8 underground and all Inferred Mineral Resource form potential future extensions to the current Ore Reserve, dependent on the gold price and technical studies.

Inferred Mineral Resources in business plan

Inferred Mineral Resource is used in the pit optimisation process and 0.87 million ounces are present in the optimised pit.

Exclusive Mineral Resource

Metric

Imperial

Au

Geita Gold Mine -

Resource

Tonnes

Grade

Au

Tons

Grade

ounces

Exclusive Mineral Resource

category

(Mt)

(g/t)

tonnes

(Mt)

(oz/t)

(Moz)

Measured

-

_

Indicated

29.9

3.04

90.8

32.9

0.089 2.9

Inferred

13.4

3.77

50.6

14.8

0.110

1.6

Total

43.3

3.27

141.4 47.7 0.095 4.5

Page 110_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 **Ore Reserves** Metric Imperial Au Resource Tonnes Grade Au Tons Grade ounces Mine/Project category (000s)(g/t)(kg) (000s)(oz/t) (000s)Geita – Area 3 west Proved Probable 433 2.78 1,204 478 0.08 39 Total 433 2.78 1,204 478 0.08 39 Geita – Chipaka Proved

Probable

944 2.45 2,311 1,040 0.07 74 Total 944 2.45 2,311 1,040 0.07 74 Geita – Geita Hill surface Proved Probable 27,780 2.73 75,971 30,622 0.08 2,443 Total 27,780 2.73 75,971 30,622 0.08 2,443 Geita – Lone Cone Proved Probable 1,145 2.77 3,172 1,262 0.08

102 Total

```
1,145
2.77
3,172
1,262
0.08
102
Geita – Matandani
Proved
Probable
1,421
3.03
4,307
1,566
0.09
138
Total
1,421
3.03
4,307
1,566
0.09
138
Geita – Nyankanga surface
Proved
Probable
34,871
4.03
140,449
38,438
0.12
4,516
Total
34,871
4.03
140,449
38,438
0.12
4,516
```

Geita – Ridge 8 surface

Proved Probable 1,426 3.06 4,366 1,572 0.09 140 Total 1,426 3.06 4,366 1,572 0.09 140 Geita – Roberts Proved Probable 3,645 2.72 9,913 4,017 0.08 319 Total 3,645 2.72 9,913 4,017 0.08 319 Geita - Star and Comet Proved

Probable 3,255 5.51 17,950 3,588 0.16 577 Total 3,255 5.51 17,950 3,588 0.16 577 Geita – stockpile full grade ore Proved 282 2.09 589 311 0.06 19 Probable Total 282 2.09 589 311 0.06 Geita – stockpile marginal Proved 3,762 0.89 3,335 4,146 0.03 107 Probable

Total 3,762 0.89 3,335 4,146 0.03 107 Geita – total Ore Reserve Proved 4,044 0.97 3,924 4,457 0.03 126 Probable 74,920 3.47 259,643 82,583 0.10 8,348 Total 78,964 3.34 263,567

TANZANIAN OPERATIONS: GEITA

87,040 0.10 8,474

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Grade tonnage information

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

J Gaunt

MAuSIMM

220840

11 years

Ore Reserve

E Smuts

MAuSIMM

211798

11 years

SAIMM

Washington

DC

Page 112 AngloGold Ashanti Mineral Resource and Ore Reserve 2006

UNITED STATES OPERATIONS: OVERVIEW

United States

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 and Ore Reserve gold price Mineral Resource and Ore Reserve gold price

Units

2006

2005

Mineral Resource Gold Price

US\$/oz

650

425

Ore Reserve Gold Price

US\$/oz

550

400

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 submodels are maintained for Altman and Wild Horse to accommodate the vertical shift in the mining benches. The estimation method is multiple indicator kriging (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

AngloGold Ashanti_Mineral Resource and Ore Reserve 2006_Page 113

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 Lerchs-Grossmann (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.

Modifying factors

Ore Reserve modifying factors (as at 31 December 2006)

USA

Cut-off

Metallurgical

grade

Dilution

(1)

Recovery

Other

Mine

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.

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

Type of Drilling

Country

Mine

Category

Spacing

Diamond

RC

Comment

m(-x-y)

USA

CC&V

Measured

<30 x 30

X

X

Indicated

>30 x 30

X X Use probability field to delineate Measured and Indicated Resource. Inferred >30 x 30 X Double search range. Grade/Ore Control 5 x 6 Blastholes are used. **Summary of Mineral Resource and Ore Reserve changes** Mineral Resource and Ore Reserve comparison by operation (attributable) AU CONTENT (ATTRIBUTABLE) (MILLION OUNCES) % change % change from from 2005 Nett diff 2005 Percentage Other before Dec after after Operation attributable Category 2005 Depletion (1) change (2) depletion 2006 depletion depletion Comments **USA** CC&V 100% Resource 6.761 -0.573 1.145 17% 7.333 0.572 8% Due to successful exploration and gold price

Reserve

3.303 -0.573 1.112 34% 3.842 0.539 16% Due to planned extension of life **USA** Totals: Resource 6.761 -0.573 1.145 17% 7.333 0.572 8% Reserve 3.303 -0.573 1.112 34% 3.842 0.539 16% (1) Depletion: Reduction in reserves based on ore delivered to the plant and corresponding reduction in Mineral Resource.

Other change: Model and scope changes.

Page 114_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 UNITED STATES OPERATIONS: CRIPPLE CREEK AND VICTOR 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 a 32-28 Ma diatreme-intrusive complex hosted in Precambrian rocks located between the towns of Cripple Creek and Victor. 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 structurally-controlled orebodies. Primary ore minerals include microscopic native gold, native gold with pyrite and gold tellurides. Silver is present but has minimal economic importance.

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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)

CC&V Measured

180,250

0.82

148,348

198,691

0.02

4,770

Mineral Resource

Indicated

95,658

0.75

71,460

105,445

0.02

2,297

Inferred

14,112

0.59

8,289

15,556

0.02

266

Total

290,020

0.79

228,097

319,692

0.02

7,333

Exclusive Mineral Resource

Metric

Imperial Au CC&V -Resource Tonnes Grade Au Tons Grade ounces **Exclusive Mineral Resource** category (Mt) (g/t)tonnes (Mt) (oz/t)(Moz) Measured 86.8 0.71 61.3 95.7 0.021 2.0 Indicated 60.1 0.65 39.0 66.2 0.019 1.3 Inferred 14.1 0.59 8.3 15.6 0.017 0.3 Total 161.0 0.67 108.6 177.5 0.020 3.5 **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 Proved 93,436 0.93 87,016 102,995 0.030 2,798 Probable 35,595 0.91 32,498 39,237 0.030 1,045 Total 129,031

0.93 119,514 142,232 0.030 3,842

Page 116_AngloGold Ashanti_Mineral Resource and Ore Reserve 2006 UNITED STATES OPERATIONS: CRIPPLE CREEK AND VICTOR

Grade tonnage information

Competent persons

Professional

Registration

Relevant

Type

Name

organisation

number

experience

Mineral Resource

L Billingsley

MAuSIMM

224930

18 years

Ore Reserve

L Billingsley

MAuSIMM

224930

18 years

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 29, 2007

By:

/s/ L Eatwell

Name: Lynda Eatwell Title: Company Secretary